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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

Applicant: NetComm Wireless Limited

18-20 Orion Road, Lane Cove NSW 2066 Australia

Product Name: Smart Antenna Tool

Brand Name: NetComm Model No.: NRB-0206

Model Difference: N/A

Report Number: T190815W03-RP FCC ID: XIA-NRB0206

FCC Rule Part: §15.247, Cat: DTS **Issue Date:** Sep. 09, 2019

Date of Test: Aug. 15, 2019~ Aug. 19, 2019

Date of EUT Received: Aug. 15, 2019

Issued by: Compliance Certification Services Inc.Wugu Lab.

No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Tai-

wan. (R.O.C.) service@ccsrf.com

The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.10: 2013 and compliance standards.

The test results of this report relate only to the tested sample (EUT) identified in this re-

The test Report of full or partial shall not copy. Without written approval of Compliance Certification Services Inc. (Wugu Laboratory).

Tested By:

Hone Hsieh / Engineer

Approved By:

Kevin Tsai / Deputy Manager





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Revision History

| Report Number | Revision | Description | Effected Page | Issue Date | Revised By |
|---------------|----------|--|------------------|---------------|------------|
| T190815W03-RP | Rev.00 | Initial creation of docu- ment | All | Sep. 02, 2019 | Elle Chang |
| T190815W03-RP | Rev.01 | Updated Measurement Equipment Used table | 13 | Sep. 09, 2019 | Elle Chang |

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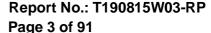




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GENERAL INFORMATION

1.1 **Product description**

| Product Name: | Smart Antenna Tool | | | |
|-------------------|---|---|--|--|
| Brand Name: | NetComn | n | | |
| Model No.: | NRB-020 | 6 | | |
| Model Difference: | N/A | | | |
| Hardware Version: | 1.0 | | | |
| Software Version: | 1.0.11.4. | | | |
| | | from Rechargeable Li-polymer Battery from AC/DC Adapter | | |
| Power Supply: | Battery: | Model No.: BAT-0006 Supplier: NetComm | | |
| | Adapter: Model No.: S010WU0500200 Supplier:.Ten Pao Industrial Co., Ltd | | | |

1.2 WLAN

| Wi-Fi 802.11 | Frequency Range | Channels | Rated Power (dBm) | Modulation Technology |
|--------------------|--------------------|---|---|--------------------------|
| b | | | 18.79 | DSSS, |
| g | 2412-2462 | 11 | 24.29 | |
| n_HT20 | | | 23.83 | OFDM |
| n_HT40 | 2422-2452 | 7 | 22.33 | |
| Modulation type: | | CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM | | |
| Transition Rate: 8 | | 802.11 g: 802.11 n | 802.11 b: 1/2/5.5/11 Mbps 802.11 g: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 - 72.2Mbps 802.11 n_40MHz: 13.5 - 150.0Mbps | |

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1.3 **Antenna Designation**

| Antenna Type | Supplier | Antenna Part No. | Freq. (MHz) | Peak An- tenna Gain (dBi) |
|-----------------|--------------------------|---------------------|----------------|---------------------------------|
| Chip | Johanson Technology Inc. | 2450AT18A100 | 2400- 2500 | 0.5 |

Test Methodology of Applied Standards 1.4

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 15.247 Meas. Guidance v05r02

ANSI C63.10:2013

Note: All test items have been performed and record as per the above standards.

1.5 **Test Facility**

Compliance Certification Services Inc. Wugu Lab. No.11, Wugong 6th Rd.,

Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.) (TAF code 1309)

FCC Designation number: TW1309

Special Accessories 1.6

There are no special accessories used while test was conducted.

1.7 **Equipment Modifications**

There was no modification incorporated into the EUT.

1.8 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*9m*6m semi-anechoic chamber. the measurements correspond to those obtained at an open-field test site. There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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SYSTEM TEST CONFIGURATION 2

2.1 **EUT Configuration**

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 **EUT Exercise**

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

Test Procedure 2.3

2.3.1 **Conducted Emissions**

The EUT is a placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz,. The CISPR Quasi-Peak and Average detector mode is employed according to §15.207. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Conducted Test (RF)

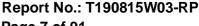
The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

2.3.3 **Radiated Emissions**

The EUT is a placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

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Configuration of Tested System 2.4

Fig. 2-1 Conducted Emission Configura-





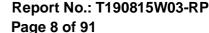


Table 2-1 Equipment Used in Tested System

| Item | Equipment | Mfr/Brand | Model/Type No. | Series No. | Data Cable | Power Cord |
|------|-----------------------|-----------|-------------------|------------|------------|------------|
| 1 | WLAN Test Software | N/A | N/A | N/A | N/A | N/A |
| 2 | Notebook | Lenovo | L430 | PK-126TN | N/A | N/A |

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SUMMARY OF TEST RESULTS

| FCC Rules | Description Of Test | Result |
|-----------------------|---|-----------|
| §15.207(a) | AC Power Line Conducted Emission | Compliant |
| §15.247(b) (3) | Peak Output Power | Compliant |
| §15.247(a)(2) | 6dB & 99% Emission Bandwidth | Compliant |
| §15.247(d) | Conducted Band Edge and Spurious Emission | Compliant |
| §15.247(d) | Radiated Band Edge and Spurious Emission | Compliant |
| §15.247(e) | Power Spectral Density | Compliant |
| §15.203 §15.247(b) | Antenna Requirement | Compliant |

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DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

11 channels are provided for 802.11b, 802.11g and 802.11n, HT20

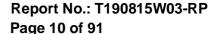
| are previous for 602:118, 602:119 and 602:1111_11126 | | | | | | |
|--|-------------------|----|-----------|--|--|--|
| CHANNEL | CHANNEL FREQUENCY | | FREQUENCY | | | |
| 1 | 2412 MHz | 8 | 2447 MHz | | | |
| 2 | 2417 MHz | 9 | 2452 MHz | | | |
| 3 | 2422 MHz | 10 | 2457 MHz | | | |
| 4 | 2427 MHz | 11 | 2462 MHz | | | |
| 5 | 2432 MHz | | | | | |
| 6 | 2437 MHz | | | | | |
| 7 | 2442 MHz | | | | | |

7 channels are provided for 802.11n_HT40

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 3 | 2422 MHz | 8 | 2447 MHz |
| 4 | 2427 MHz | 9 | 2452 MHz |
| 5 | 2432 MHz | | |
| 6 | 2437 MHz | | |
| 7 | 2442 MHz | | |

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The Worst Test Modes and Channel Details 4.2

- 1. The EUT has been tested under operating condition.
- 2. aTest program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
- 3. Investigation has been done on all the possible configurations for searching the worst case. The gevin UE is pre-scanned among below modes.

| Modulation | Transmission Chain | | | |
|------------|--------------------|-------|-------|-------|
| □ 802.11 b | ⊠ Ch0 | ☐ Ch1 | □ Ch2 | □ Ch3 |
| □ 802.11 g | ⊠ Ch0 | ☐ Ch1 | □ Ch2 | □ Ch3 |
| □ 802.11 n | ⊠ Ch0 | ☐ Ch1 | □ Ch2 | □ Ch3 |

4. Therefore, below summary is the modes of test configuration that yield the highest reading and generate the highest emission chosen to carry out the relevantly mandatory test items.

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RADIATED EMISSION TEST:

| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
|----------------|----------------------|-------------------|----------------|------------------------|-----------------|
| | RADIA | ATED EMISSI | ION TEST (BELC | W 1 GHz) | |
| 802.11g | 1 to 11 | 6 | OFDM | 6 | Ch0 |
| | RADIA | TED EMISS | ION TEST (ABO | /E 1 GHz) | |
| 802.11b | 1 to 11 | 1, 6, 11 | DSSS | 1 | Ch0 |
| 802.11g | 1 to 11 | 1, 6, 11 | OFDM | 6 | Ch0 |
| 802.11n (HT20) | 1 to 11 | 1, 6, 11 | OFDM | MCS 0 | Ch0 |
| 802.11n (HT40) | 3 to 9 | 3, 6, 9 | OFDM | MCS 0 | Ch0 |

Note:

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for 802.11b/g/n WLAN Transmitter for channel Low, Mid and High, the worst case E2 position was reported.

ANTENNA PORT CONDUCTED MEASUREMENT:

| | CONDUCTED TEST | | | | | | |
|---|----------------|--------|------|-------|-----|--|--|
| MODE AVAILABLE TESTED MODULATION RATE (Mbps) ANTENNA PORT | | | | | | | |
| 802.11b | 1 to 11 | 1,6,11 | DSSS | 1 | Ch0 | | |
| 802.11g | 1 to 11 | 1,6,11 | OFDM | 6 | Ch0 | | |
| 802.11n (HT20) | 1 to 11 | 1,6,11 | OFDM | MCS 0 | Ch0 | | |
| 802.11n (HT40) | 3 to 9 | 3,6,9 | OFDM | MCS 0 | Ch0 | | |

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MEASUREMENT UNCERTAINTY

| PARAMETER | UNCERTAINTY |
|---------------------------------------|-------------|
| AC Powerline Conducted Emission | +/- 1.2575 |
| Emission bandwidth, 20dB bandwidth | +/- 0.0014 |
| RF output power, conducted | +/- 1.14 |
| Power density, conducted | +/- 1.40 |
| 3M Semi Anechoic Chamber / 30M~200M | +/- 4.12 |
| 3M Semi Anechoic Chamber / 200M~1000M | +/- 4.68 |
| 3M Semi Anechoic Chamber / 1G~8G | +/- 5.18 |
| 3M Semi Anechoic Chamber / 8G~18G | +/- 5.47 |
| 3M Semi Anechoic Chamber / 18G~26G | +/- 3.81 |
| 3M Semi Anechoic Chamber / 26G~40G | +/- 3.87 |

Note:

- 1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
- 2. Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.



CONDUCTED EMISSION TEST

6.1 **Standard Applicable**

Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

| Frequency range | Lin dB(| nits (uV) |
|-----------------|------------|--------------|
| MHz | Quasi-peak | Average |
| 0.15 to 0.50 | 66 to 56 | 56 to 46 |
| 0.50 to 5 | 56 | 46 |
| 5 to 30 | 60 | 50 |

Note

6.2 Measurement Equipment Used

| Conducted Emission Test Site | | | | | | | |
|------------------------------|------------------|-----------------|---------------|--------------|------------|--|--|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. | | |
| CABLE | EMCI | CFD300-NL | CERF | 06/27/2019 | 06/26/2020 | | |
| EMI Test Receiver | R&S | ESCI | 101203 | 10/29/2018 | 10/28/2019 | | |
| LISN | SCHWARZ- BECK | NSLK 8127 | 8127-541 | 01/31/2019 | 01/30/2020 | | |
| LISN | SCHAFFNER | NNB 41 | 03/10013 | 02/13/2019 | 02/12/2020 | | |
| Software | | EZ-EMC(CO | CS-3A1-CE) | | | | |

6.3 **EUT Setup**

- 1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI 63.10:2013.
- 2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
- 3. The LISN was connected with 120Vac/60Hz power source.

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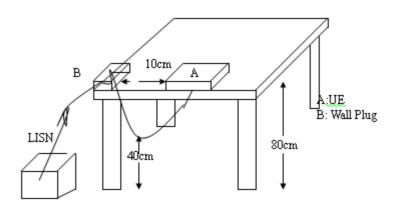
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^{1.} The lower limit shall apply at the transition frequencies

^{2.} The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.



6.4 Test SET-UP (Block Diagram of Configuration)



6.5 Measurement Procedure

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all phases of power being supplied by given UE are completed

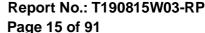
6.6 Measurement Result

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closet to the limit.

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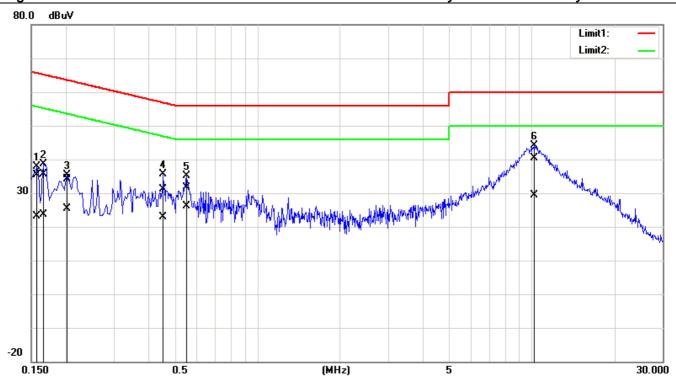
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Description: Operation 2019/8/23 Date: Line: Temp.(°C)/Hum.(%): 23.7(℃)/62% L1

Test Voltage: AC 120V/60Hz Test By: Gary



| No. | Fre- quency | Qua- siPeak reading | Average reading | Correc- tion factor | Qua- siPeak result | Average result | Qua- siPeak limit | Average limit | Qua- siPeak margin | Aver- age margin | Re- mark |
|-----|----------------|---------------------------|-----------------|---------------------------|--------------------------|----------------|-------------------------|------------------|--------------------------|------------------------|-------------|
| | (MHz) | (dBuV) | (dBuV) | (dB) | (dBuV) | (dBuV) | (dBuV) | (dBuV) | (dB) | (dB) | |
| 1 | 0.1580 | 25.25 | 12.90 | 10.14 | 35.39 | 23.04 | 65.56 | 55.57 | -30.17 | -32.53 | Pass |
| 2 | 0.1660 | 25.42 | 13.55 | 10.14 | 35.56 | 23.69 | 65.15 | 55.16 | -29.59 | -31.47 | Pass |
| 3 | 0.2020 | 24.10 | 15.32 | 10.13 | 34.23 | 25.45 | 63.52 | 53.53 | -29.29 | -28.08 | Pass |
| 4 | 0.4540 | 20.87 | 12.62 | 10.14 | 31.01 | 22.76 | 56.80 | 46.80 | -25.79 | -24.04 | Pass |
| 5 | 0.5540 | 21.57 | 15.98 | 10.15 | 31.72 | 26.13 | 56.00 | 46.00 | -24.28 | -19.87 | Pass |
| 6* | 10.2299 | 29.99 | 19.13 | 10.35 | 40.34 | 29.48 | 60.00 | 50.00 | -19.66 | -20.52 | Pass |

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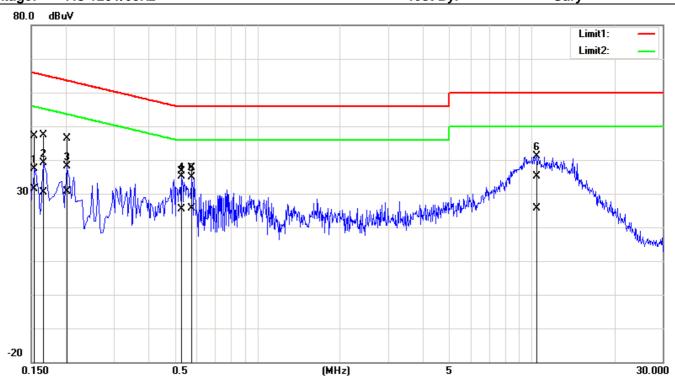
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Description: Date: 2019/8/23 Operation Line: Temp.(°C)/Hum.(%): 23.7(°C)/62%

Test Voltage: AC 120V/60Hz Test By: Gary



| No. | Fre- quency | Qua- siPeak reading | Average reading | Correc- tion factor | Qua- siPeak result | Average result | Qua- siPeak limit | Average limit | Qua- siPeak margin | Aver- age margin | Re- mark |
|-----|----------------|---------------------------|-----------------|---------------------------|--------------------------|----------------|-------------------------|------------------|--------------------------|------------------------|-------------|
| | (MHz) | (dBuV) | (dBuV) | (dB) | (dBuV) | (dBuV) | (dBuV) | (dBuV) | (dB) | (dB) | |
| 1 | 0.1539 | 37.04 | 21.26 | 10.02 | 47.06 | 31.28 | 65.78 | 55.79 | -18.72 | -24.51 | Pass |
| 2 | 0.1660 | 37.38 | 20.32 | 10.02 | 47.40 | 30.34 | 65.15 | 55.16 | -17.75 | -24.82 | Pass |
| 3* | 0.2020 | 36.43 | 20.58 | 10.02 | 46.45 | 30.60 | 63.52 | 53.53 | -17.07 | -22.93 | Pass |
| 4 | 0.5299 | 26.59 | 15.42 | 10.03 | 36.62 | 25.45 | 56.00 | 46.00 | -19.38 | -20.55 | Pass |
| 5 | 0.5780 | 27.48 | 15.55 | 10.03 | 37.51 | 25.58 | 56.00 | 46.00 | -18.49 | -20.42 | Pass |
| 6 | 10.4140 | 24.82 | 15.38 | 10.22 | 35.04 | 25.60 | 60.00 | 50.00 | -24.96 | -24.40 | Pass |

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DUTY CYCLE OF TEST SIGNAL

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

Formula:

Duty Cycle = Ton / (Ton+Toff)

Measurement Procedure:

- 1. Set span = Zero
- 2. RBW = 8MHz
- 3. VBW = 8MHz,
- 4. Detector = Peak

Duty Cycle:

| | Duty Cycle (%) | Duty Factor (dB) | 1/T (kHz) | VBW setting (kHz) |
|------------|----------------|---------------------|--------------|-------------------|
| 802.11b | 97.77 | 0.10 | 0.12 | 1.00 |
| 802.11g | 90.18 | 0.45 | 0.72 | 1.00 |
| 802.11n_20 | 85.88 | 0.66 | 0.76 | 1.00 |
| 802.11n_40 | 71.44 | 1.46 | 1.54 | 2.00 |

| b = 97.77%, g = 90.18%,n_ht_20 = 85.88%n_ht_40 = 71.449 | b | = 97.77% | q = 90.18%, n | ht 20 = | - 85.88%n | ht | <i>40</i> = | 71.449 |
|---|---|----------|---------------|---------|-----------|----|-------------|--------|
|---|---|----------|---------------|---------|-----------|----|-------------|--------|

| Duty Cycle Factor: 10 * log(1/0.9777) = 0.1 | |
|--|--|
| Duty Cycle Factor: 10 * log(1/0.9018) = 0.45 | |
| Duty Cycle Factor: 10 * log(1/0.8588) = 0.66 | |
| Duty Cycle Factor: 10 * log(1/0.7144) = 1.46 | |

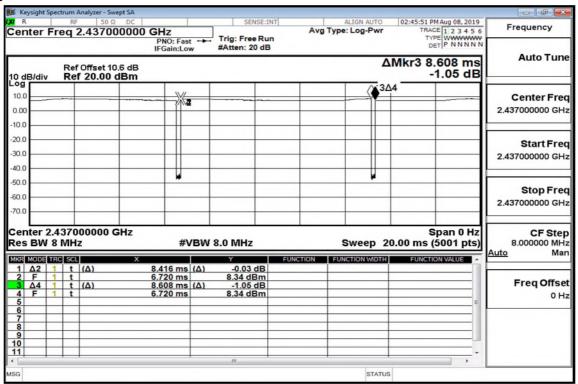
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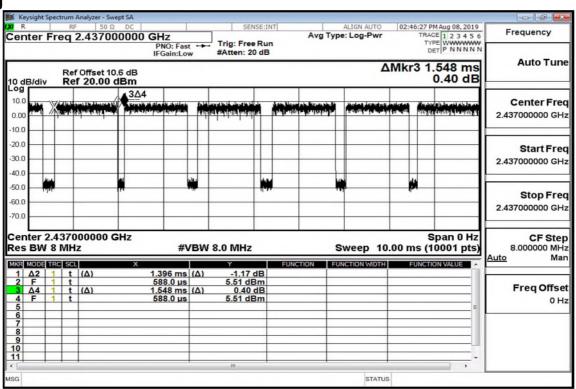


DUTY CYCLE TEST SIGNAL Measurement Result 7.1

802.11 b



802.11 a

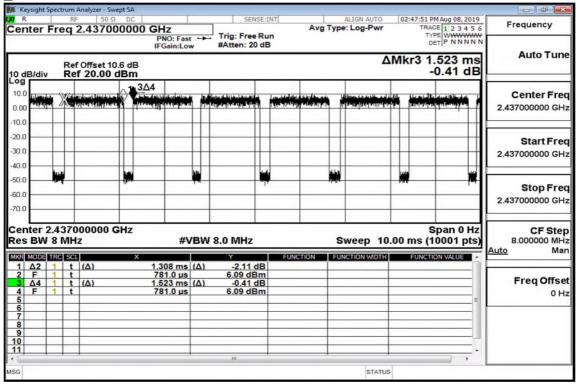


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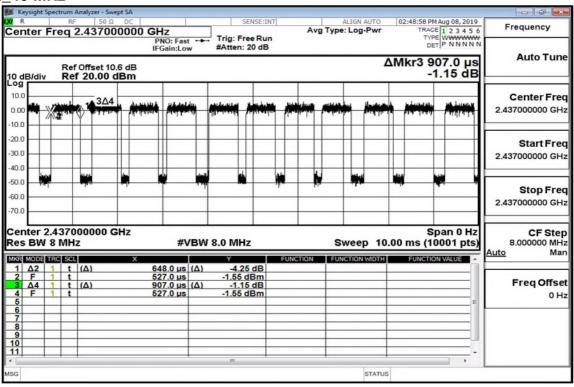
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802.11 n 20 MHz

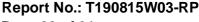


802.11 n 40 MHz



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PEAK OUTPUT POWER MEASUREMENT

8.1 **Standard Applicable**

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt.

If the transmitting antenna of directional gain greater than 6dBi are used the peak output power form the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

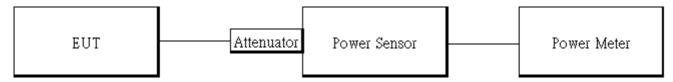
In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

8.2 **Measurement Equipment Used**

| Conducted Emission Test Site | | | | | | | | | |
|------------------------------|-----------|-----------------|------------------|--------------|------------|--|--|--|--|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. | | | | |
| Power Meter | Anritsu | ML2496A | 1242004 | 10/23/2018 | 10/22/2019 | | | | |
| Power Sensor | Anritsu | MA2411B | 1207365 | 10/23/2018 | 10/22/2019 | | | | |
| Power Sensor | Anritsu | MA2411B | 1207368 | 10/24/2018 | 10/23/2019 | | | | |
| Attenuator | Marvelous | MVE2213-10 | RF80 | 02/26/2019 | 02/25/2020 | | | | |

Test Set-up 8.3

Power Meter:



8.4 **Measurement Procedure**

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.

Power Meter:

It is used as the auxiliary test equipment to conduct the output power measurement.

4. Record the max. Reading as observed from Spectrum or Power Meter.

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8.5 **Measurement Result**

| 802.1 | 1b Ch0 | | | | |
|-------|----------------|--------------|---|----------------|--------|
| СН | Freq. (MHz) | Data Rate | Peak Output Power (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | 1 | 18.62 | 30.00 | PASS |
| 6 | 2437 | 1 | 18.79 | 30.00 | PASS |
| 11 | 2462 | 1 | 18.53 | 30.00 | PASS |
| 802.1 | 1b Ch0 | | | | |
| СН | Freq. (MHz) | Data Rate | Max. Avg. Output include tune up tolerance Power (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | 1 | 16.76 | 30.00 | PASS |
| 6 | 2437 | 1 | 16.82 | 30.00 | PASS |
| 11 | 2462 | 1 | 16.69 | 30.00 | PASS |

| 802.1° | lg Ch0 | | | | |
|--------|----------------|--------------|---|----------------|--------|
| СН | Freq. (MHz) | Data Rate | Peak Output Power (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | 6 | 24.29 | 30.00 | PASS |
| 6 | 2437 | 6 | 24.17 | 30.00 | PASS |
| 11 | 2462 | 6 | 24.26 | 30.00 | PASS |
| 802.1° | lg Ch0 | | | - | |
| СН | Freq. (MHz) | Data Rate | Max. Avg. Output include tune up tolerance Power (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | 6 | 16.15 | 30.00 | PASS |
| 6 | 2437 | 6 | 16.04 | 30.00 | PASS |
| 11 | 2462 | 6 | 16.10 | 30.00 | PASS |

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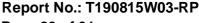
| 802.1 | 302.11n_HT20M Ch0 | | | | | | | |
|-------|------------------------|--------------|----------------------------------|----------------|---------|--|--|--|
| СН | Freq. (MHz) | Data Rate | Peak Output Power (dBm) | Limit (dBm) | RESULT | | | |
| 1 | 2412 | MCS0 | 23.83 | 30.00 | PASS | | | |
| 6 | 2437 | MCS0 | 23.77 | 30.00 | PASS | | | |
| 11 | 2462 | MCS0 | 23.62 | 30.00 | PASS | | | |
| 802.1 | 1n_HT20I | M Ch0 | | | | | | |
| СН | Freq. | Data | Max. Avg. Output include tune up | Limit | DEOU! T | | | |
| | (MHz) | Rate | tolerance Power (dBm) | (dBm) | RESULT | | | |
| 1 | (MHz) 2412 | Rate MCS0 | | (dBm) 30.00 | PASS | | | |
| 1 6 | , , | | (dBm) | , , | | | | |

| 802.11n_HT40M Ch0 | | | | | | | | |
|-------------------|-------------------|--------------|---|----------------|--------|--|--|--|
| СН | Freq. (MHz) | Data Rate | Peak Output Power (dBm) (dBm) | | RESULT | | | |
| 3 | 2422 | MCS0 | 22.33 | 30.00 | PASS | | | |
| 6 | 2437 | MCS0 | 21.95 | 30.00 | PASS | | | |
| 9 | 2452 | MCS0 | 21.56 | 30.00 | PASS | | | |
| 802.1° | 802.11n_HT40M Ch0 | | | | | | | |
| СН | Freq. (MHz) | Data Rate | Max. Avg. Output include tune up tolerance Power (dBm) | Limit (dBm) | RESULT | | | |
| 3 | 2422 | MCS0 | 13.62 | 30.00 | PASS | | | |
| 6 | 2437 | MCS0 | 13.38 | 30.00 | PASS | | | |
| 9 | 2452 | MCS0 | 13.04 | 30.00 | PASS | | | |

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^{*} Note: The duty cycle factor is compensated to obtain the maximum value of measurement in average.



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9 6DB BANDWIDTH MEASUREMENT

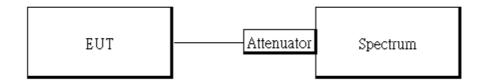
9.1 Standard Applicable

The minimum 6 dB bandwidth shall be at least 500 kHz.

9.2 Measurement Equipment Used

| Conducted Emission Test Site | | | | | | | |
|------------------------------|------------|-----------------|------------------|--------------|------------|--|--|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. | | |
| DC Block | PASTERNACK | PE8210 | RF256 | 02/26/2019 | 02/25/2020 | | |
| Spectrum Analyzer | Agilent | N9010A | MY5340025 6 | 11/21/2018 | 11/20/2019 | | |
| Attenuator | Marvelous | MVE2213-10 | RF80 | 02/26/2019 | 02/25/2020 | | |

9.3 Test Set-up



9.4 Measurement Procedure

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. For 6dB Bandwidth:
 - Set the spectrum analyzer as RBW = 100 kHz, VBW = 3*RBW, Span = 30M/50MHz, Detector=peak, Sweep=auto.
- 5. Mark the peak frequency and –6dB (upper and lower) frequency.
- 6. For 99% Bandwidth:
 - Set the spectrum analyzer as RBW=1%, VBW = 3*RBW, Span = 30M/50MHz, Detector=Sample, Sweep=auto.
- 7. Turn on the 99% bandwidth function, max reading.
- 8. Repeat above procedures until all frequency of interest measured was complete.

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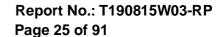
9.5 **Measurement Result** 6dB Bandwidth

| 802.11b Ch0 | | | | 802.11g | Ch0 | | | | |
|-------------|-----------------|-------|---------|-------------------|----------|-------|---------|--|--|
| Freq. | 6dB BW | Limit | Result | Freq. | 6dB BW | Limit | Result | | |
| (MHz) | (kHz) | (kHz) | rtoourt | (MHz) | (kHz) | (kHz) | 1100011 | | |
| 2412 | 10050.00 | > 500 | PASS | 2412 | 15130.00 | > 500 | PASS | | |
| 2437 | 10060.00 | > 500 | PASS | 2437 | 15130.00 | > 500 | PASS | | |
| 2462 | 10050.00 | > 500 | PASS | 2462 | 15140.00 | > 500 | PASS | | |
| 802.11_i | _ n_HT20 Ch0 | | | 802.11_n_HT40 Ch0 | | | | | |
| Freq. | 6dB BW | Limit | Result | Freq. | 6dB BW | Limit | Result | | |
| (MHz) | (kHz) | (kHz) | Kesuit | (MHz) | (kHz) | (kHz) | Nesun | | |
| 2412 | 15120.00 | > 500 | PASS | 2422 | 35110.00 | > 500 | PASS | | |
| 2437 | 15130.00 | > 500 | PASS | 2437 | 35110.00 | > 500 | PASS | | |
| 2462 | 15120.00 | > 500 | PASS | 2452 | 35110.00 | > 500 | PASS | | |

^{*}Refer to next page for plots

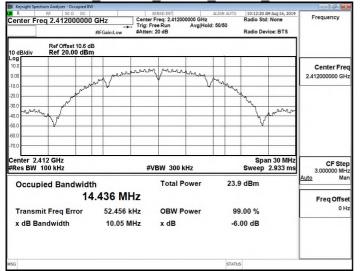
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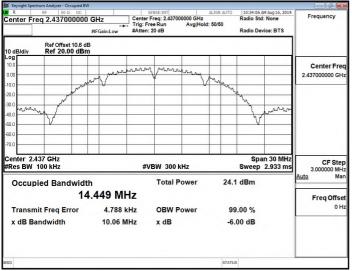




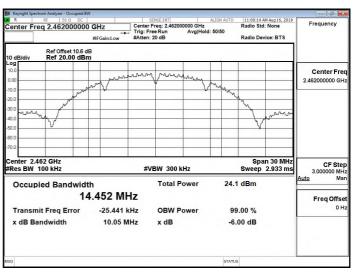




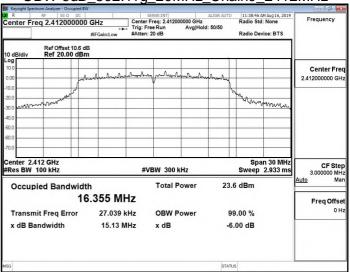
OBW 6dB_802.11b_20MHz_Chain0_2437MHz



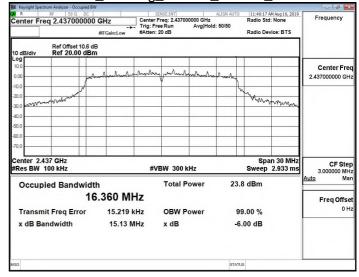
OBW 6dB_802.11b_20MHz_Chain0_2462MHz



OBW 6dB_802.11g_20MHz_Chain0_2412MHz



OBW 6dB_802.11g_20MHz_Chain0_2437MHz

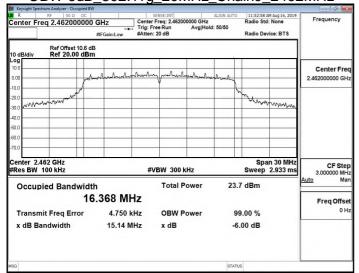


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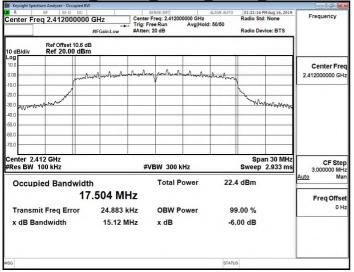
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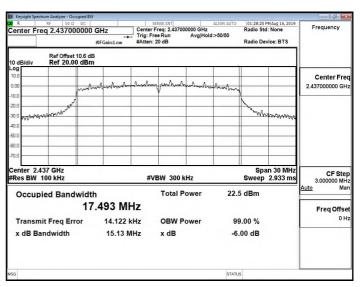
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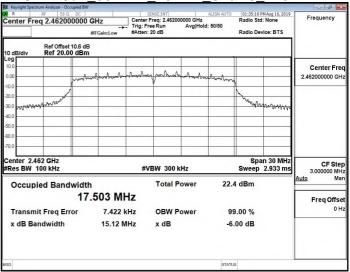




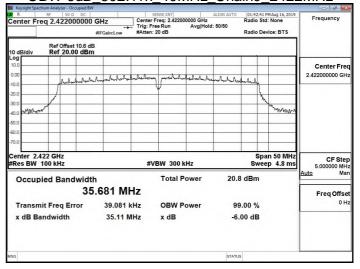
OBW 6dB_802.11n_20MHz_Chain0_2437MHz



OBW 6dB 802.11n 20MHz Chain0 2462MHz

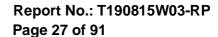


OBW 6dB_802.11n_40MHz_Chain0_2422MHz



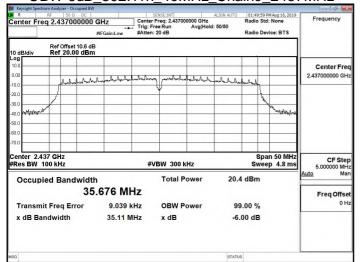
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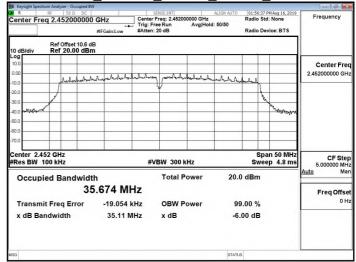




OBW 6dB_802.11n_40MHz_Chain0_2437MHz



OBW 6dB_802.11n_40MHz_Chain0_2452MHz



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CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

10.1 **Standard Applicable**

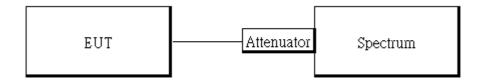
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

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.

Measurement Equipment Used 10.2

| Conducted Emission Test Site | | | | | | | | |
|------------------------------|------------|------------|----------------|------------|------------|--|--|--|
| EQUIPMENT | MFR | MODEL | SERIAL | LAST | CAL DUE. | | | |
| TYPE | | NUMBER | NUMBER | CAL. | | | | |
| DC Block | PASTERNACK | PE8210 | RF256 | 02/26/2019 | 02/25/2020 | | | |
| Spectrum Analyzer | Agilent | N9010A | MY5340025 6 | 11/21/2018 | 11/20/2019 | | | |
| Attenuator | Marvelous | MVE2213-10 | RF80 | 02/26/2019 | 02/25/2020 | | | |

10.3 Test SET-UP



10.4 **Measurement Procedure**

Reference Level of Emission Limit:

- Set analyzer center frequency to DTS channel center frequency.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Set the span to 1.5 times the DTS channel bandwidth.
- 4. Set the RBW = 100kHz & VBW = 300 kHz.
- 5. Detector = peak.

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- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.

Conducted Band Edge:

- To connect Antenna Port of EUT to Spectrum.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. Set start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
- 5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Detector = Peak, Sweep = auto
- 6. Mark the highest reading of the emission as the reference level measurement.
- 7. Set DL as the limit = reading on marker 1 20dBm
- 8. Marker on frequency, 2.3999GHz and 2.4836GHz, and examine shall 100 kHz immediately outside the authorized (2400~2483.5) be attenuated by 20dB at least relative to the maximum emission of power.
- 9. Repeat above procedures until all default test channel (low, middle, and high) was complete.

Conducted Spurious Emission:

- To connect Antenna Port of EUT to Spectrum
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Set RBW = 100 kHz & VBW = 300 kHz, Detector = Peak, Sweep = Auto.
- 4. Allow trace to fully stabilize.
- 5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
- 6. Repeat above procedures until all default test channel measured were complete.

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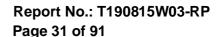
10.5 **Measurement Result**

| Reference Level of Limit 802.11b mode | | | Refere | nce Leve | evel of Limit 802.11g mode | | |
|---|--------------|--|--------------------|--------------|---|--|--|
| Freq. | PSD | Reference Level of Limit | Freq. | PSD | Reference Level of Limit | | |
| (MHz) | (dBm) | (dBm) | (MHz) | (dBm) | (dBm) | | |
| 2412 | 7.23 | -12.77 | 2412 | 7.10 | -12.90 | | |
| 2437 | 7.31 | -12.69 | 2437 | 7.17 | -12.83 | | |
| 2462 | 7.48 | -12.52 | 2462 | 7.14 | -12.86 | | |
| Reference Level of Limit 802.11n20 mode | | | | | | | |
| Referen | ce Level | of Limit 802.11n20 mode | Referen | ce Level o | of Limit 802.11n40 MODE | | |
| Referen Freq. | ce Level | of Limit 802.11n20 mode Reference Level of Limit | Reference Freq. | PSD | of Limit 802.11n40 MODE Reference Level of Limit | | |
| | | | | | | | |
| Freq. | PSD | Reference Level of Limit | Freq. | PSD | Reference Level of Limit | | |
| Freq. (MHz) | PSD (dBm) | Reference Level of Limit (dBm) | Freq. (MHz) | PSD (dBm) | Reference Level of Limit (dBm) | | |

| Note | | | |
|------------|-------|----|--|
| Cable Loss | 10.60 | dΒ | |

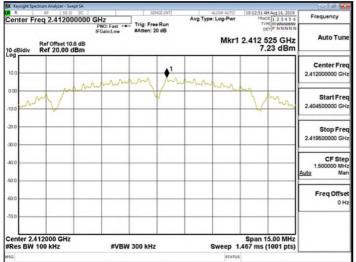
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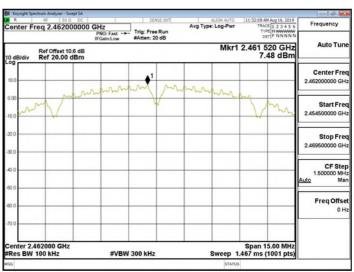
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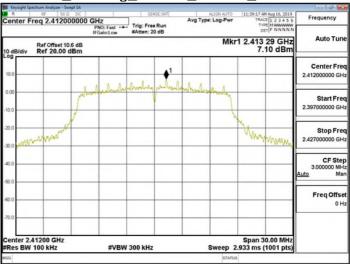
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Reference Level_802.11b_20MHz_Chain0_2462MHz



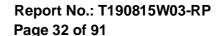
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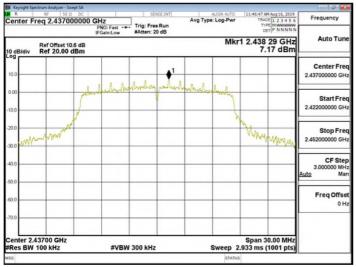
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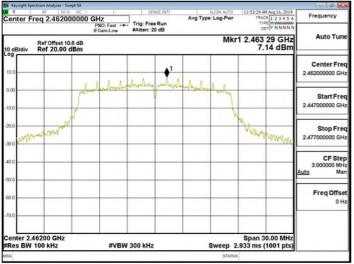
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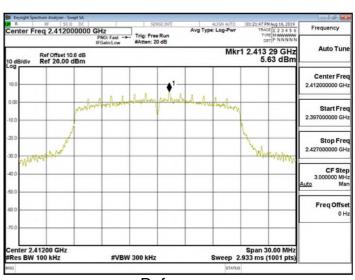




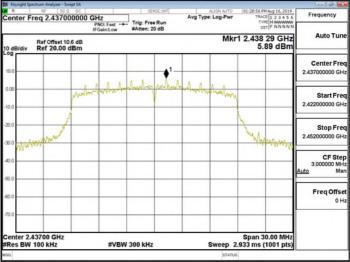
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Reference Level_802.11n_20MHz_Chain0_2412MHz



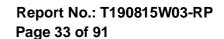
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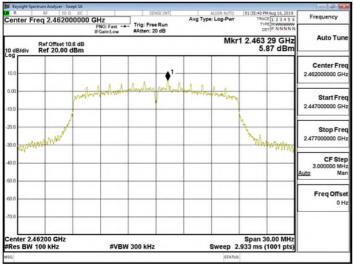
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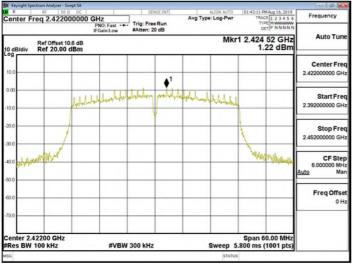
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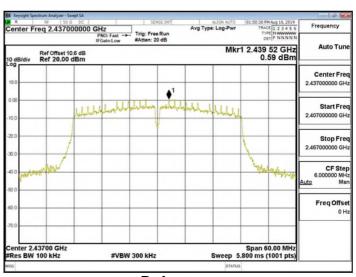




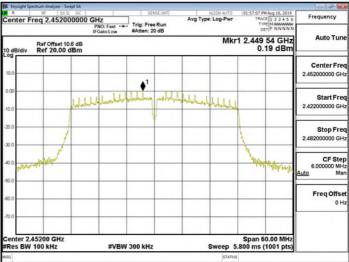
Reference Level 802.11n 40MHz Chain0 2422MHz



Reference Level_802.11n_40MHz_Chain0_2437MHz

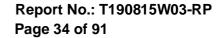


Reference Level 802.11n 40MHz Chain0 2452MHz

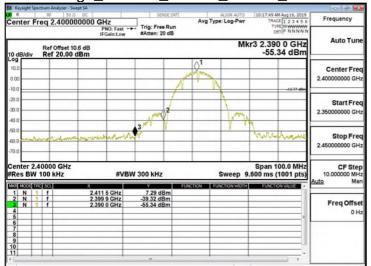


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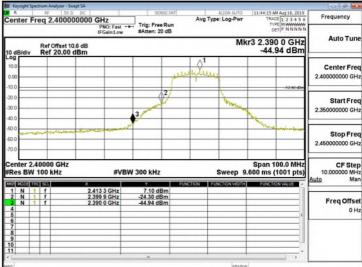
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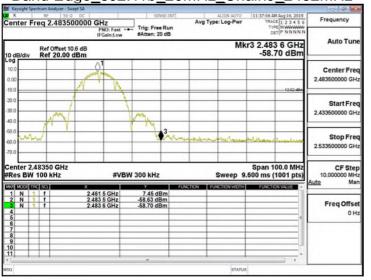
Band Edge_802.11b_20MHz_Chain0_2412MHz



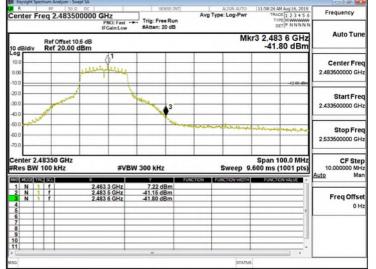
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Band Edge_802.11b_20MHz_Chain0_2462MHz

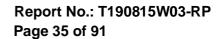


Band Edge_802.11g_20MHz_Chain0_2462MHz



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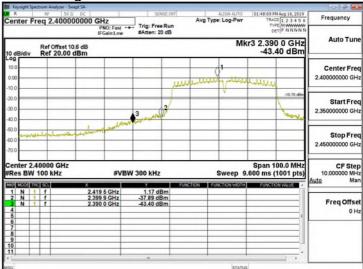




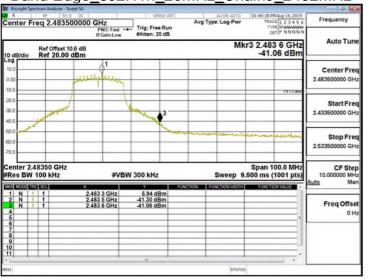
Band Edge_802.11n_20MHz_Chain0_2412MHz



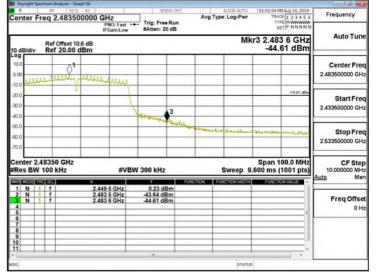
Band Edge_802.11n_40MHz_Chain0_2422MHz



Band Edge_802.11n_20MHz_Chain0_2462MHz

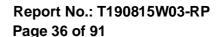


Band Edge_802.11n_40MHz_Chain0_2452MHz



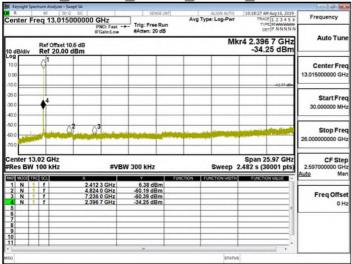
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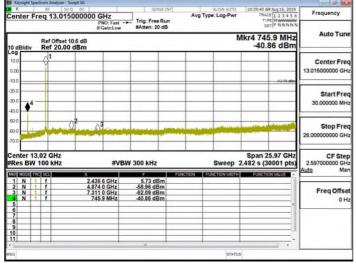




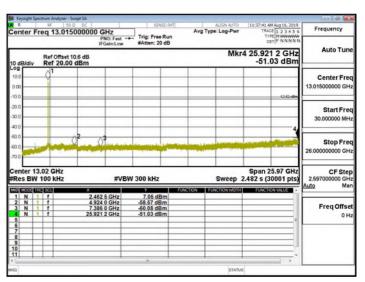
Spurious Emission_802.11b_20MHz_Chain0_2412MHz



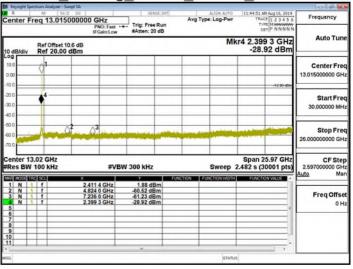
Spurious Emission_802.11b_20MHz_Chain0_2437MHz



Spurious Emission 802.11b 20MHz Chain0 2462MHz



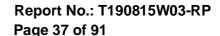
Spurious Emission_802.11g_20MHz_Chain0_2412MHz



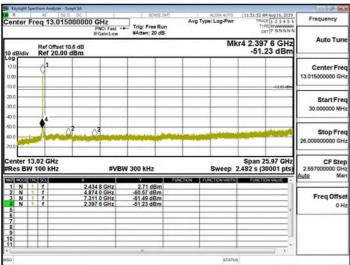
Spurious Emission_802.11g_20MHz_Chain0_2437MHz

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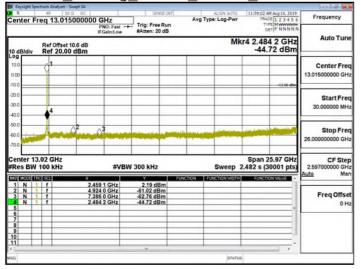
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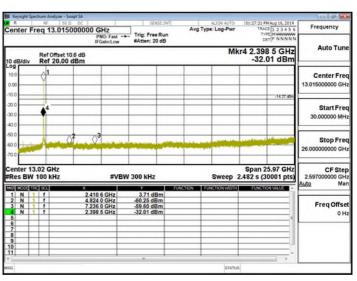




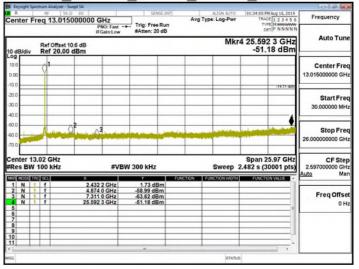
Spurious Emission_802.11g_20MHz_Chain0_2462MHz



Spurious Emission_802.11n_20MHz_Chain0_2412MHz



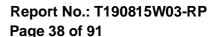
Spurious Emission_802.11n_20MHz_Chain0_2437MHz



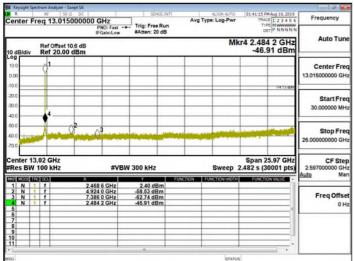
Spurious Emission_802.11n_20MHz_Chain0_2462MHz

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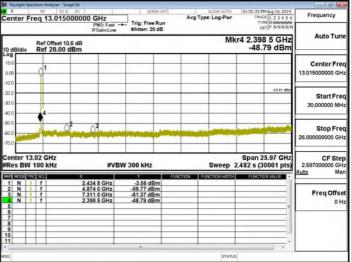


Spurious Emission_802.11n_40MHz_Chain0_2422MHz

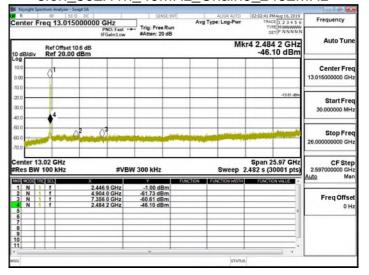


Spurious Emis-





Spurious Emission_802.11n_40MHz_Chain0_2452MHz



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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

11.1 **Standard Applicable**

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. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 limit as below.

And according to §15.33(a) (1), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

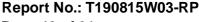
| Frequency (MHz) | Field strength (microvolts/meter) | Distance (meters) |
|--------------------|-----------------------------------|----------------------|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above 960 | 500 | 3 |

Note:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level $(dB\mu V/m) = 20 \log Emission level (dB\mu V/m)$

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11.2 Measurement Equipment Used:

| 966 Chamber | | | | | | | | |
|-----------------------------------|-------------------|--------------------|------------------|--------------|------------|--|--|--|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. | | | |
| Low Pass Filter | EWT | EWT-56-0019 | RF46 | 02/26/2019 | 02/25/2020 | | | |
| High Pass Filter | R&S | F13 HPF 3GHz | RF64 | 02/26/2019 | 02/25/2020 | | | |
| Band Reject Filters | MICRO TRONICS | BRM 50702 | 120 | 02/26/2019 | 02/25/2020 | | | |
| Bilog Antenna | Sunol Sciences | JB3 | A030105 | 07/26/2019 | 07/25/2020 | | | |
| Cable | HUBER SUHNER | SUCOFLEX 104PEA | 25157 | 02/26/2019 | 02/25/2020 | | | |
| Cable | HUBER SUHNER | SUCOFLEX 104PEA | 20995 | 02/26/2019 | 02/25/2020 | | | |
| Digital Thermo-Hy- gro Meter | WISEWIND | 1206 | D07 | 01/30/2019 | 01/29/2020 | | | |
| Loop Antenna | COM-POWER | AL-130 | 121051 | 03/22/2019 | 03/21/2020 | | | |
| Horn Antenna | SCHWARZBECK | BBHA 9120D | 779 | 03/09/2019 | 03/08/2020 | | | |
| Pre-Amplifier | EMEC | EM330 | 060609 | 02/26/2019 | 02/25/2020 | | | |
| Pre-Amplifier | HP | 8449B | 3008A00965 | 02/26/2019 | 02/25/2020 | | | |
| PSA Series Spec- trum Analyzer | Agilent | E4446A | MY46180323 | 05/29/2019 | 05/28/2020 | | | |
| Antenna Tower | CCS | CC-A-1F | N/A | N.C.R | N.C.R | | | |
| Controller | CCS | CC-C-1F | N/A | N.C.R | N.C.R | | | |
| Turn Table | CCS | CC-T-1F | N/A | N.C.R | N.C.R | | | |
| Software | e3 V6.11-20180413 | | | | | | | |

NOTE: N.C.R refers to Not Calibrated Required.

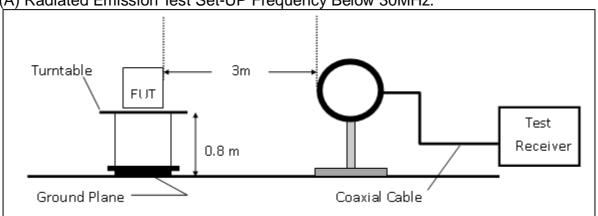
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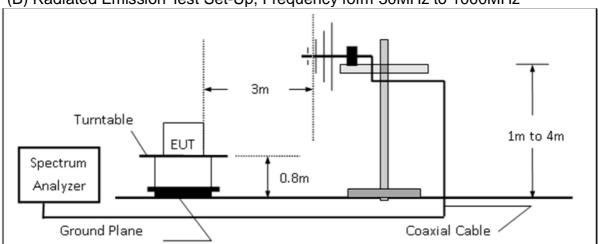


Test SET-UP 11.3

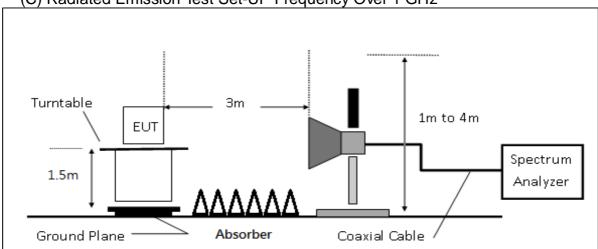
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency form 30MHz to 1000MHz



(C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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11.4 Measurement Procedure

- 1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 2. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
- 3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
- 4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
- 5. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.
- 6. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
- 7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
- 8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW ≥ 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
- 9. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- 10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. On spectrum, change spectrum mode in linear display mode, and reduce VBW = 10Hz if average reading is measured.
- 12. Repeat above procedures until all default test channel measured were complete.

11.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

| Where | S . | CL = Cable Attenuation Factor (Cable Loss) |
|-------|------------------------|--|
| | RA = Reading Amplitude | AG = Amplifier Gain |
| | AF = Antenna Factor | |

Actual FS(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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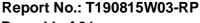
11.6 Test Results of Radiated Spurious Emissions form 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

11.7 **Measurement Result**

Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

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Radiated Band Edge Measurement Result

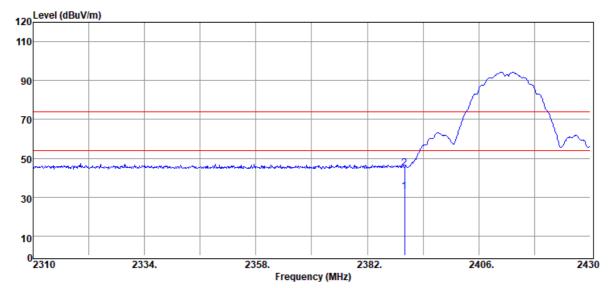
Report Number :T190815W03 Test Date :2019-08-21

Temp./Humi. :22.6/60 Operation Band: 802.11b

Frequency :2412 MHz Antenna Pol. :HORIZONTAL

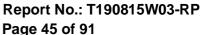
Operation Mode :BE CH LOW Engineer :Kailin

EUT Pol. :E1 Plan



| Freq. | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | PK/QP/AV | dΒμV | dB | dBμV/m | dBμV/m | dB |
| 2390.00 | Average | 36.04 | -3.38 | 32.66 | 54.00 | -21.34 |
| 2390.00 | Peak | 48.24 | -3.38 | 44.86 | 74.00 | -29.14 |

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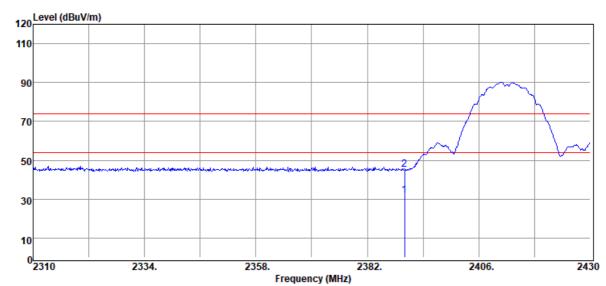




Operation Band :802.11b Temp./Humi. :22.6/60

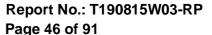
Frequency :2412 MHz Antenna Pol. : VERTICAL Operation Mode :BE CH LOW Engineer :Kailin

EUT Pol. :E1 Plan



| Freq. | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | PK/QP/AV | dΒμV | dB | dBµV/m | dBμV/m | dB |
| 2390.00 | Average | 35.52 | -3.38 | 32.14 | 54.00 | -21.86 |
| 2390.00 | Peak | 48.46 | -3.38 | 45.08 | 74.00 | -28.92 |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明·此報告結果僅對測試之樣品負責·同時此樣品僅保留%天。本報告未經本公司書面許可·不可部份複製。

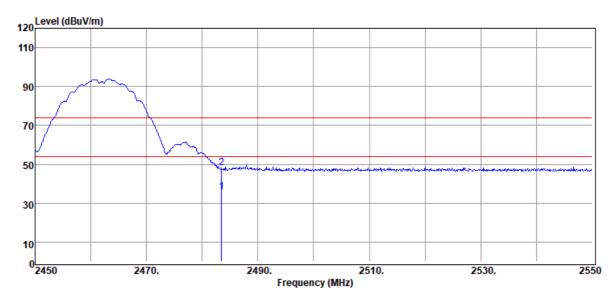




Operation Band :802.11b Temp./Humi. :22.3/59

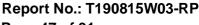
Frequency :2462 MHz Antenna Pol. :HORIZONTAL

Operation Mode :BE CH HIGH Engineer :Kailin EUT Pol. :E1 Plan



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AV | dΒμV | dB | dBµV/m | dΒμV/m | dB |
| 2483.50 | Average | 38.74 | -2.83 | 35.91 | 54.00 | -18.09 |
| 2483.50 | Peak | 50.94 | -2.83 | 48.11 | 74.00 | -25.89 |

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:Kailin

Engineer



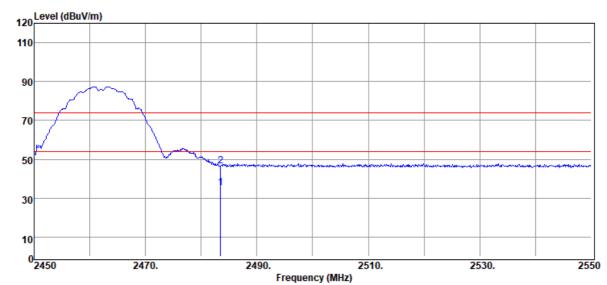
Report Number :T190815W03 **Test Date** :2019-08-21

Operation Band :802.11b Temp./Humi. :22.3/59

Frequency :2462 MHz Antenna Pol. : VERTICAL

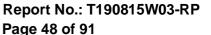
EUT Pol. :E1 Plan

Operation Mode :BE CH HIGH



| Freq. | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | PK/QP/AV | dΒμV | dB | dBµV/m | dΒμV/m | dB |
| 2483.50 | Average | 38.07 | -2.83 | 35.24 | 54.00 | -18.76 |
| 2483.50 | Peak | 49.39 | -2.83 | 46.56 | 74.00 | -27.44 |

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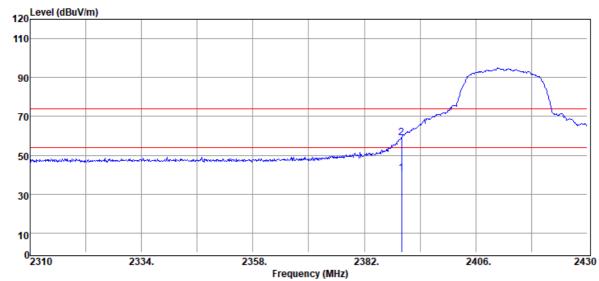




Operation Band :802.11g Temp./Humi. :22.0/64

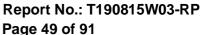
Frequency :2412 MHz Antenna Pol. :HORIZONTAL

Operation Mode :BE CH LOW Engineer :Kailin EUT Pol. :E1 Plan



| Freq. | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB |
| 2390.00 | Average | 43.90 | -3.38 | 40.52 | 54.00 | -13.48 |
| 2390.00 | Peak | 62.26 | -3.38 | 58.88 | 74.00 | -15.12 |

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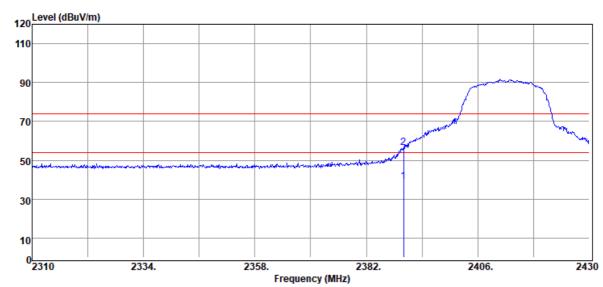




Operation Band :802.11g Temp./Humi. :22.0/64

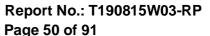
Frequency :2412 MHz Antenna Pol. : VERTICAL Operation Mode :BE CH LOW Engineer :Kailin

EUT Pol. :E1 Plan



| Freq. | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | PK/QP/AV | dΒμV | dB | dBµV/m | dBμV/m | dB |
| 2390.00 | Average | 42.38 | -3.38 | 39.00 | 54.00 | -15.00 |
| 2390.00 | Peak | 59.79 | -3.38 | 56.41 | 74.00 | -17.59 |

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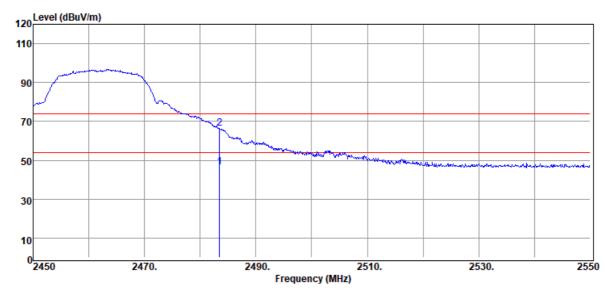




Operation Band :802.11g Temp./Humi. :22.5/63

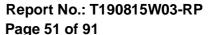
Frequency :2462 MHz Antenna Pol. :HORIZONTAL

Operation Mode :BE CH HIGH Engineer :Kailin EUT Pol. :E1 Plan



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AV | dΒμV | dB | dBµV/m | dΒμV/m | dB |
| 2483.50 | Average | 49.48 | -2.83 | 46.65 | 54.00 | -7.35 |
| 2483.50 | Peak | 69.19 | -2.83 | 66.36 | 74.00 | -7.64 |

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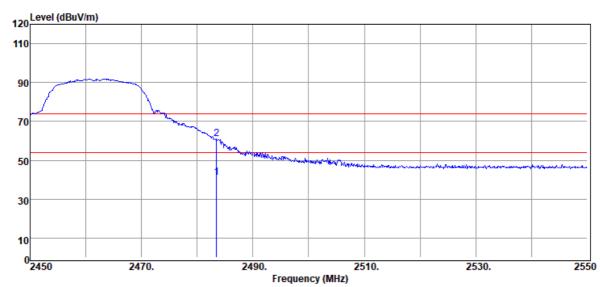




Operation Band :802.11g Temp./Humi. :22.5/63 Frequency :2462 MHz Antenna Pol. : VERTICAL

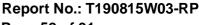
Operation Mode :BE CH HIGH Engineer :Kailin

EUT Pol. :E1 Plan



| Freq. | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | PK/QP/AV | dΒμV | dB | dBµV/m | dBμV/m | dB |
| 2483.50 | Average | 44.08 | -2.83 | 41.25 | 54.00 | -12.75 |
| 2483.50 | Peak | 63.91 | -2.83 | 61.08 | 74.00 | -12.92 |

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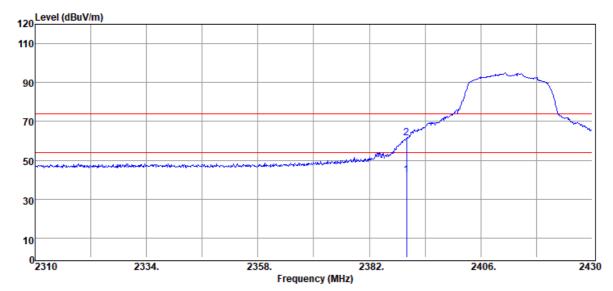
Report Number :T190815W03 **Test Date** :2019-08-21

Operation Band :802.11n20 Temp./Humi. :22.6/67

Frequency :2412 MHz Antenna Pol. :HORIZONTAL

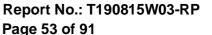
Operation Mode :BE CH LOW Engineer :Kailin

EUT Pol. :E1 Plan



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AV | dΒμV | dB | dBµV/m | dBμV/m | dB |
| 2390.00 | Average | 45.68 | -3.38 | 42.30 | 54.00 | -11.70 |
| 2390.00 | Peak | 64.84 | -3.38 | 61.46 | 74.00 | -12.54 |

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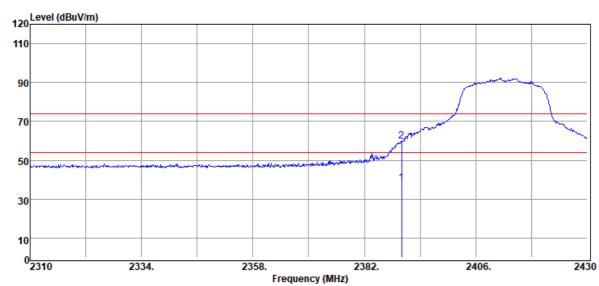




Operation Band :802.11n20 Temp./Humi. :22.6/67

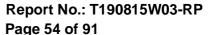
Frequency :2412 MHz Antenna Pol. : VERTICAL

Operation Mode :BE CH LOW Engineer :Kailin EUT Pol. :E1 Plan



| Freq. | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin | |
|---------|------------------|---------------------------|--------|--------------|--------------|--------|--|
| MHz | PK/QP/AV | dΒμV | dB | dBµV/m | dΒμV/m | dB | |
| 2390.00 | Average | 41.63 | -3.38 | 38.25 | 54.00 | -15.75 | |
| 2390.00 | Peak | 63.27 | -3.38 | 59.89 | 74.00 | -14.11 | |

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:E1 Plan

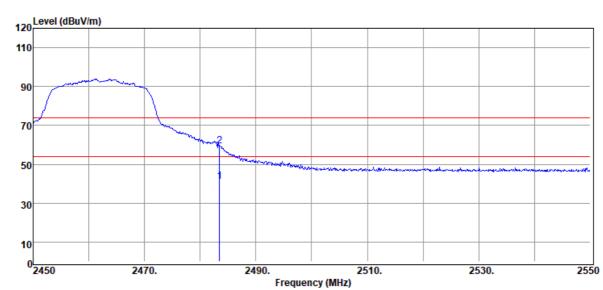
EUT Pol.

Report Number :T190815W03 **Test Date** :2019-08-21

Operation Band :802.11n20 Temp./Humi. :22.4/61

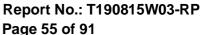
Frequency :2462 MHz Antenna Pol. :HORIZONTAL

Operation Mode :BE CH HIGH Engineer :Kailin



| Freq. | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | PK/QP/AV | dΒμV | dB | dBµV/m | dΒμV/m | dB |
| 2483.50 | Average | 43.88 | -2.83 | 41.05 | 54.00 | -12.95 |
| 2483.50 | Peak | 62.31 | -2.83 | 59.48 | 74.00 | -14.52 |

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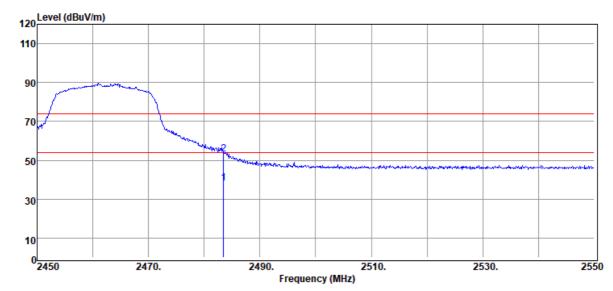


Operation Band :802.11n20 Temp./Humi. :22.4/61

Frequency :2462 MHz Antenna Pol. : VERTICAL

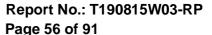
Operation Mode :BE CH HIGH Engineer :Kailin

EUT Pol. :E1 Plan



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AV | dΒμV | dB | dBµV/m | dΒμV/m | dB |
| 2483.50 | Average | 41.03 | -2.83 | 38.20 | 54.00 | -15.80 |
| 2483.50 | Peak | 56.10 | -2.83 | 53.27 | 74.00 | -20.73 |

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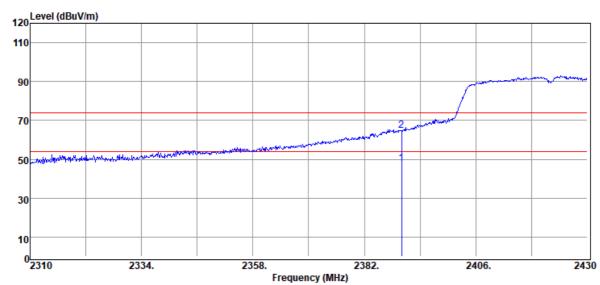




Operation Band :802.11n40 Temp./Humi. :22.2/67

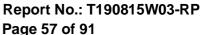
Frequency :2422 MHz Antenna Pol. :HORIZONTAL

Operation Mode :BE CH LOW Engineer :Kailin EUT Pol. :E1 Plan



| Freq. | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|-------------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | PK/QP/AV | dΒμV | dB | dBµV/m | dBμV/m | dB |
| 2390.00 | Average | 51.33 | -3.38 | 47.95 | 54.00 | -6.05 |
| 2390.00 | Peak | 67.99 | -3.38 | 64.61 | 74.00 | -9.39 |

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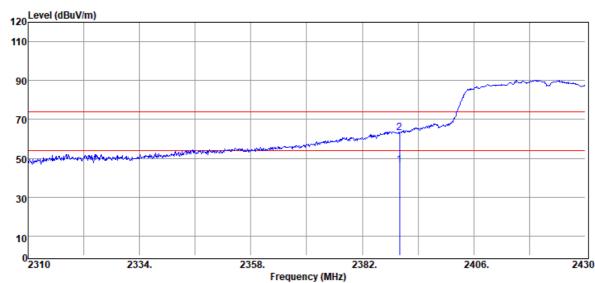




Operation Band :802.11n40 Temp./Humi. :22.2/67

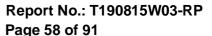
Frequency :2422 MHz Antenna Pol. : VERTICAL

Operation Mode :BE CH LOW Engineer :Kailin EUT Pol. :E1 Plan



| Freq. | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB |
| 2390.00 | Average | 49.92 | -3.38 | 46.54 | 54.00 | -7.46 |
| 2390.00 | Peak | 66.45 | -3.38 | 63.07 | 74.00 | -10.93 |

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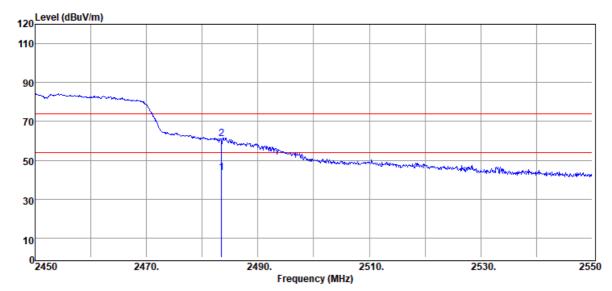


Operation Band :802.11n40 Temp./Humi. :22.3/63

Frequency :2452 MHz Antenna Pol. :HORIZONTAL

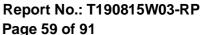
Operation Mode :BE CH HIGH Engineer :Kailin

EUT Pol. :E1 Plan



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| | Mode | Reading Level | | FS | @3m | - |
| MHz | PK/QP/AV | dΒμV | dB | dBµV/m | dΒμV/m | dB |
| 2483.50 | Average | 46.29 | -2.83 | 43.46 | 54.00 | -10.54 |
| 2483.50 | Peak | 63.89 | -2.83 | 61.06 | 74.00 | -12.94 |

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:Kailin



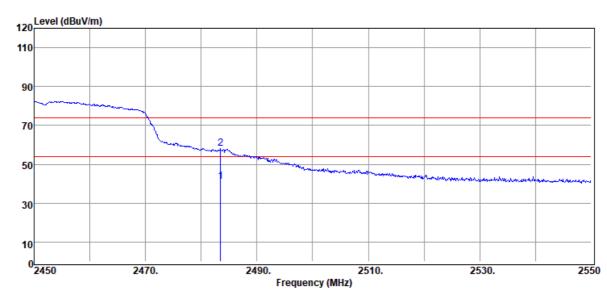
Report Number :T190815W03 **Test Date** :2019-08-21

Operation Band :802.11n40 Temp./Humi. :22.3/63

Frequency :2452 MHz Antenna Pol. : VERTICAL

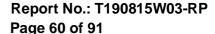
Engineer

Operation Mode :BE CH HIGH EUT Pol. :E1 Plan



| Freq. | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | PK/QP/AV | dΒμV | dB | dBµV/m | dΒμV/m | dB |
| 2483.50 | Average | 43.77 | -2.83 | 40.94 | 54.00 | -13.06 |
| 2483.50 | Peak | 60.75 | -2.83 | 57.92 | 74.00 | -16.08 |

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Below 1GHz Worst-Case Data:

Radiated Spurious Emission Measurement Result

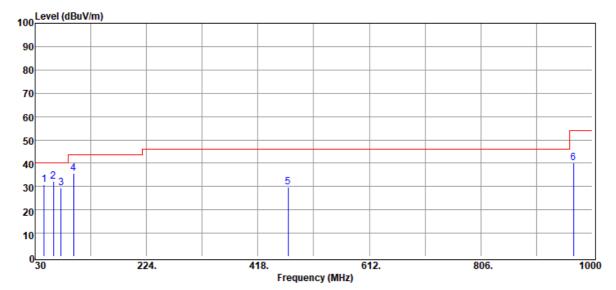
Report Number :T190815W03 Test Date :2019-08-22

Operation Band :802.11g Temp./Humi. :23.8/56 :2437 MHz

Antenna Pol. : VERTICAL Frequency

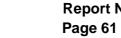
Operation Mode :TX CH MID Engineer :Kailin

EUT Pol. :E2 Plan



| Freq. | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|--------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB |
| 45.52 | Peak | 43.86 | -13.23 | 30.63 | 40.00 | -9.37 |
| 62.01 | Peak | 47.83 | -15.60 | 32.23 | 40.00 | -7.77 |
| 75.59 | Peak | 44.34 | -14.79 | 29.55 | 40.00 | -10.45 |
| 96.93 | Peak | 49.16 | -13.46 | 35.70 | 43.50 | -7.80 |
| 470.38 | Peak | 33.09 | -3.27 | 29.82 | 46.00 | -16.18 |
| 967.02 | Peak | 34.99 | 5.15 | 40.14 | 54.00 | -13.86 |

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Report No.: T190815W03-RP

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Report Number: T190815W03

Operation Band :802.11g

Frequency :2437 MHz

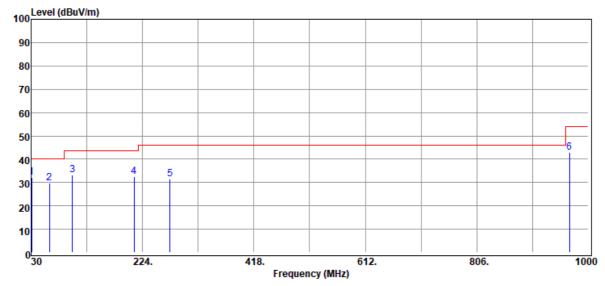
Operation Mode :TX CH MID

EUT Pol. :E2 Plan **Test Date** :2019-08-22

Temp./Humi. :23.8/56

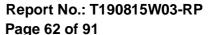
Antenna Pol. :HORIZONTAL

Engineer :Kailin



| Freq. | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|--------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | PK/QP/AV | dΒμV | dB | dBµV/m | dBμV/m | dB |
| 30.97 | Peak | 34.36 | -2.33 | 32.03 | 40.00 | -7.97 |
| 62.01 | Peak | 45.48 | -15.60 | 29.88 | 40.00 | -10.12 |
| 101.78 | Peak | 45.31 | -12.05 | 33.26 | 43.50 | -10.24 |
| 209.45 | Peak | 44.01 | -11.57 | 32.44 | 43.50 | -11.06 |
| 271.53 | Peak | 39.94 | -8.51 | 31.43 | 46.00 | -14.57 |
| 967.02 | Peak | 37.92 | 5.15 | 43.07 | 54.00 | -10.93 |

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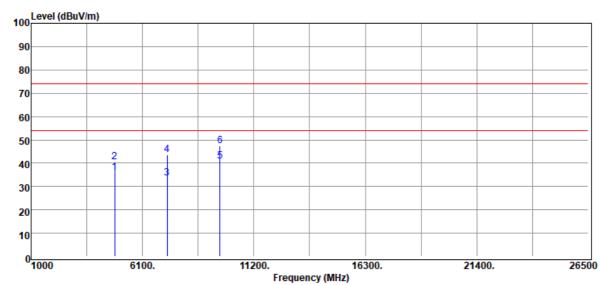




Operation Band :802.11b Temp./Humi. :22.4/70

Frequency :2412 MHz Antenna Pol. : VERTICAL Operation Mode :TX CH LOW Engineer :Kailin

EUT Pol. :E1 Plan



| Freq. | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | PK/QP/AV | dΒμV | dB | dBμV/m | dBμV/m | dB |
| 4824.00 | Average | 33.11 | 2.84 | 35.95 | 54.00 | -18.05 |
| 4824.00 | Peak | 37.48 | 2.84 | 40.32 | 74.00 | -33.68 |
| 7236.00 | Average | 23.29 | 10.44 | 33.73 | 54.00 | -20.27 |
| 7236.00 | Peak | 33.05 | 10.44 | 43.49 | 74.00 | -30.51 |
| 9648.00 | Average | 27.90 | 12.89 | 40.79 | 54.00 | -13.21 |
| 9648.00 | Peak | 34.40 | 12.89 | 47.29 | 74.00 | -26.71 |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明·此報告結果僅對測試之樣品負責·同時此樣品僅保留%天。本報告未經本公司書面許可·不可部份複製。



Report No.: T190815W03-RP

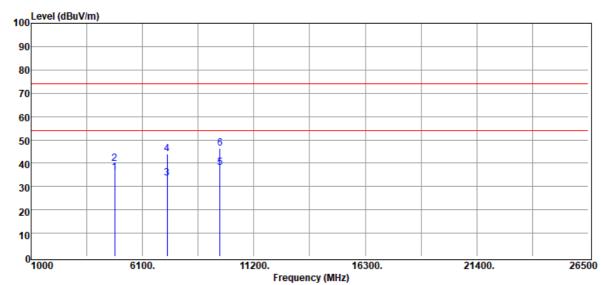
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Report Number :T190815W03 Test Date :2019-08-21

Operation Band :802.11b Temp./Humi. :22.4/70

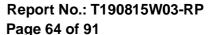
Frequency :2412 MHz Antenna Pol. :HORIZONTAL

Operation Mode :TX CH LOW Engineer :Kailin EUT Pol. :E1 Plan



| Freq. | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB |
| 4824.00 | Average | 33.27 | 2.84 | 36.11 | 54.00 | -17.89 |
| 4824.00 | Peak | 37.04 | 2.84 | 39.88 | 74.00 | -34.12 |
| 7236.00 | Average | 23.25 | 10.44 | 33.69 | 54.00 | -20.31 |
| 7236.00 | Peak | 33.62 | 10.44 | 44.06 | 74.00 | -29.94 |
| 9648.00 | Average | 25.29 | 12.89 | 38.18 | 54.00 | -15.82 |
| 9648.00 | Peak | 33.59 | 12.89 | 46.48 | 74.00 | -27.52 |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明·此報告結果僅對測試之樣品負責·同時此樣品僅保留%天。本報告未經本公司書面許可·不可部份複製。



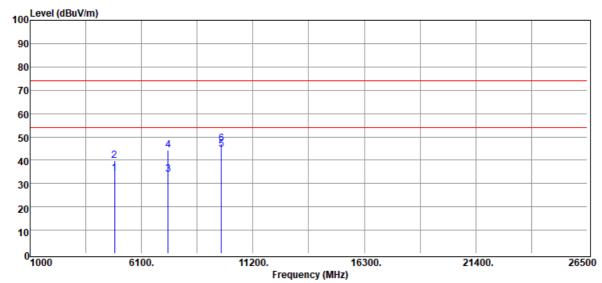


Operation Band :802.11b Temp./Humi. :22.4/74

Frequency :2437 MHz Antenna Pol. : VERTICAL

Operation Mode :TX CH MID Engineer :Kailin

EUT Pol. :E1 Plan



| Freq. | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | PK/QP/AV | dΒμV | dB | dBμV/m | dBμV/m | dB |
| 4874.00 | Average | 31.25 | 2.98 | 34.23 | 54.00 | -19.77 |
| 4874.00 | Peak | 36.74 | 2.98 | 39.72 | 74.00 | -34.28 |
| 7311.00 | Average | 23.48 | 10.60 | 34.08 | 54.00 | -19.92 |
| 7311.00 | Peak | 33.71 | 10.60 | 44.31 | 74.00 | -29.69 |
| 9748.00 | Average | 31.90 | 12.76 | 44.66 | 54.00 | -9.34 |
| 9748.00 | Peak | 34.17 | 12.76 | 46.93 | 74.00 | -27.07 |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明·此報告結果僅對測試之樣品負責·同時此樣品僅保留%天。本報告未經本公司書面許可·不可部份複製。



Report No.: T190815W03-RP

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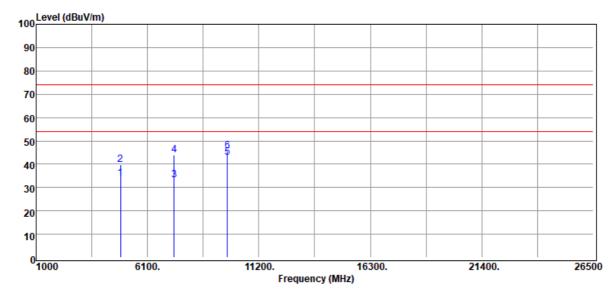
Report Number :T190815W03 Test Date :2019-08-21

Operation Band :802.11b Temp./Humi. :22.4/74

Frequency :2437 MHz Antenna Pol. :HORIZONTAL

Operation Mode :TX CH MID Engineer :Kailin

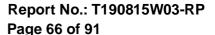
EUT Pol. :E1 Plan



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AV | dΒμV | dB | dBμV/m | dΒμV/m | dB |
| 4874.00 | Average | 30.97 | 2.98 | 33.95 | 54.00 | -20.05 |
| 4874.00 | Peak | 36.67 | 2.98 | 39.65 | 74.00 | -34.35 |
| 7311.00 | Average | 22.74 | 10.60 | 33.34 | 54.00 | -20.66 |
| 7311.00 | Peak | 33.30 | 10.60 | 43.90 | 74.00 | -30.10 |
| 9748.00 | Average | 30.17 | 12.76 | 42.93 | 54.00 | -11.07 |
| 9748.00 | Peak | 32.75 | 12.76 | 45.51 | 74.00 | -28.49 |

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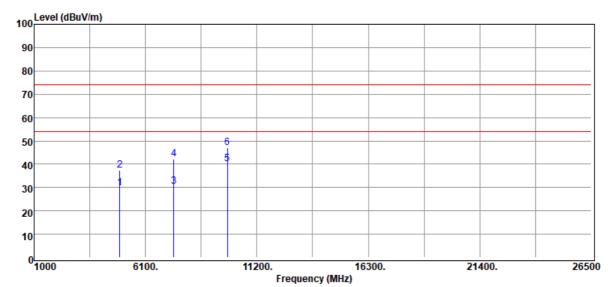




Operation Band :802.11b Temp./Humi. :22.7/69

Frequency :2462 MHz Antenna Pol. : VERTICAL Operation Mode :TX CH HIGH Engineer :Kailin

EUT Pol. :E1 Plan



| Freq. | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | PK/QP/AV | dΒμV | dB | dBμV/m | dBμV/m | dB |
| 4924.00 | Average | 26.26 | 3.46 | 29.72 | 54.00 | -24.28 |
| 4924.00 | Peak | 33.75 | 3.46 | 37.21 | 74.00 | -36.79 |
| 7386.00 | Average | 19.75 | 10.85 | 30.60 | 54.00 | -23.40 |
| 7386.00 | Peak | 31.36 | 10.85 | 42.21 | 74.00 | -31.79 |
| 9848.00 | Average | 27.40 | 12.84 | 40.24 | 54.00 | -13.76 |
| 9848.00 | Peak | 34.36 | 12.84 | 47.20 | 74.00 | -26.80 |

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:E1 Plan

EUT Pol.

Report No.: T190815W03-RP

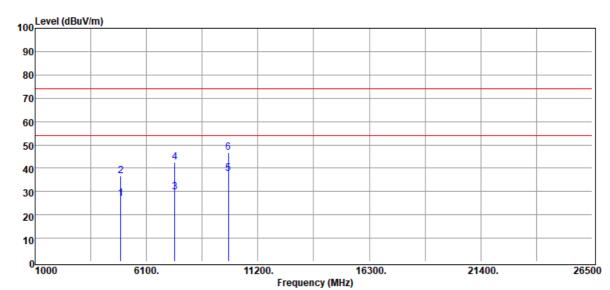
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Report Number :T190815W03 Test Date :2019-08-21

Operation Band :802.11b Temp./Humi. :22.7/69

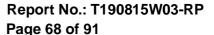
Frequency :2462 MHz Antenna Pol. :HORIZONTAL

Operation Mode :TX CH HIGH Engineer :Kailin



| Freq. | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | PK/QP/AV | dΒμV | dB | dBμV/m | dBµV/m | dB |
| 4924.00 | Average | 23.46 | 3.46 | 26.92 | 54.00 | -27.08 |
| 4924.00 | Peak | 33.19 | 3.46 | 36.65 | 74.00 | -37.35 |
| 7386.00 | Average | 19.03 | 10.85 | 29.88 | 54.00 | -24.12 |
| 7386.00 | Peak | 31.62 | 10.85 | 42.47 | 74.00 | -31.53 |
| 9848.00 | Average | 24.80 | 12.84 | 37.64 | 54.00 | -16.36 |
| 9848.00 | Peak | 33.74 | 12.84 | 46.58 | 74.00 | -27.42 |

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Above 1GHz Data:

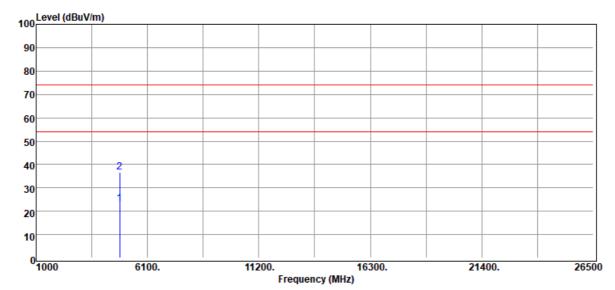
Report Number: T190815W03 Test Date :2019-08-21

Operation Band: 802.11g Temp./Humi. :23.4/69

Frequency :2412 MHz Antenna Pol. : VERTICAL

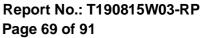
Operation Mode :TX CH LOW Engineer :Kailin

EUT Pol. :E1 Plan



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| | Mode | Reading Level | | FS | @3m | - |
| MHz | PK/QP/AV | dΒμV | dB | dBμV/m | dΒμV/m | dB |
| 4824.00 | Average | 20.25 | 2.84 | 23.09 | 54.00 | -30.91 |
| 4824.00 | Peak | 33.69 | 2.84 | 36.53 | 74.00 | -37.47 |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明·此報告結果僅對測試之樣品負責·同時此樣品僅保留90天。本報告未經本公司書面許可·不可部份複製。





:E1 Plan

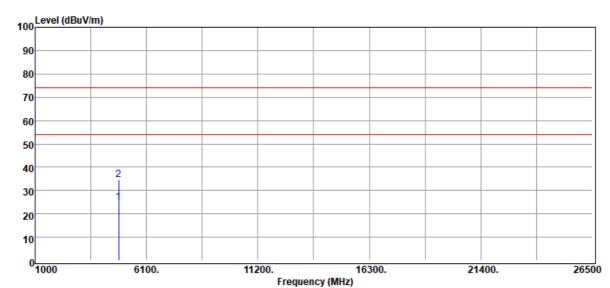
EUT Pol.

Report Number: T190815W03 Test Date :2019-08-21

Operation Band :802.11g Temp./Humi. :23.4/69

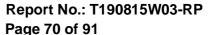
:2412 MHz Frequency Antenna Pol. :HORIZONTAL

Operation Mode :TX CH LOW Engineer :Kailin



| Freq. | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB |
| 4824.00 | Average | 22.00 | 2.84 | 24.84 | 54.00 | -29.16 |
| 4824.00 | Peak | 31.84 | 2.84 | 34.68 | 74.00 | -39.32 |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明·此報告結果僅對測試之樣品負責·同時此樣品僅保留%天。本報告未經本公司書面許可·不可部份複製。

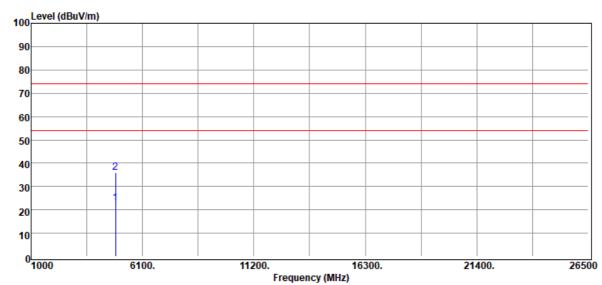




Operation Band :802.11g Temp./Humi. :23.9/64

Frequency :2437 MHz Antenna Pol. : VERTICAL

Operation Mode :TX CH MID Engineer :Kailin EUT Pol. :E1 Plan



| Freq. | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | PK/QP/AV | dΒμV | dB | dBµV/m | dBμV/m | dB |
| 4874.00 | Average | 19.97 | 2.98 | 22.95 | 54.00 | -31.05 |
| 4874.00 | Peak | 33.17 | 2.98 | 36.15 | 74.00 | -37.85 |

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Report No.: T190815W03-RP

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Report Number :T190815W03

Operation Band :802.11g

Frequency :2437 MHz

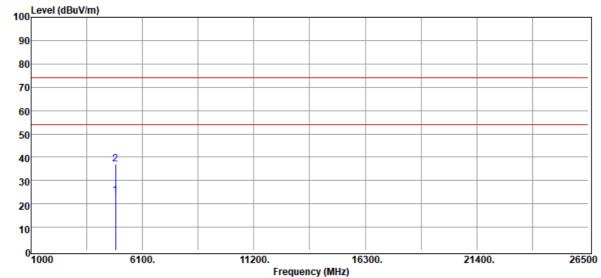
Operation Mode :TX CH MID

EUT Pol. :E1 Plan **Test Date** :2019-08-21

Temp./Humi. :23.9/64

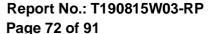
Antenna Pol. :HORIZONTAL

Engineer :Kailin



| Freq. | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | PK/QP/AV | dΒμV | dB | dBµV/m | dBμV/m | dB |
| 4874.00 | Average | 20.57 | 2.98 | 23.55 | 54.00 | -30.45 |
| 4874.00 | Peak | 34.00 | 2.98 | 36.98 | 74.00 | -37.02 |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明·此報告結果僅對測試之樣品負責·同時此樣品僅保留%天。本報告未經本公司書面許可·不可部份複製。



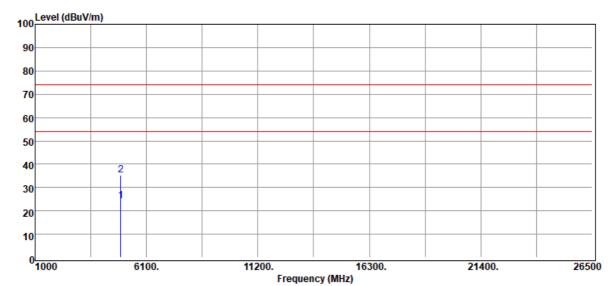


Operation Band :802.11g Temp./Humi. :23.9/66

Frequency :2462 MHz Antenna Pol. : VERTICAL

Operation Mode :TX CH HIGH Engineer :Kailin

EUT Pol. :E1 Plan



| Freq. | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | PK/QP/AV | dΒμV | dB | dBµV/m | dBμV/m | dB |
| 4924.00 | Average | 20.65 | 3.46 | 24.11 | 54.00 | -29.89 |
| 4924.00 | Peak | 31.96 | 3.46 | 35.42 | 74.00 | -38.58 |

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:2019-08-21

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Report Number: T190815W03 **Test Date**

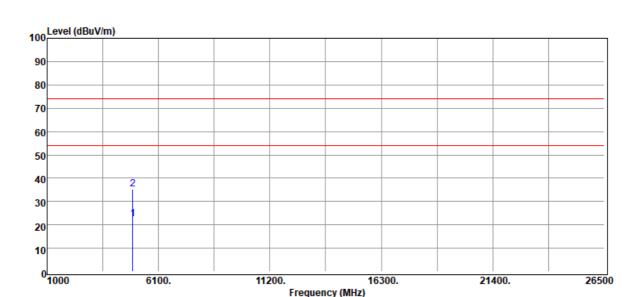
:E1 Plan

EUT Pol.

Operation Band :802.11g Temp./Humi. :23.9/66

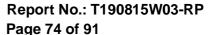
Frequency :2462 MHz Antenna Pol. :HORIZONTAL

Operation Mode :TX CH HIGH Engineer :Kailin



| Freq. | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | PK/QP/AV | dBµV | dB | dBμV/m | dBµV/m | dB |
| 4924.00 | Average | 19.18 | 3.46 | 22.64 | 54.00 | -31.36 |
| 4924.00 | Peak | 31.99 | 3.46 | 35.45 | 74.00 | -38.55 |

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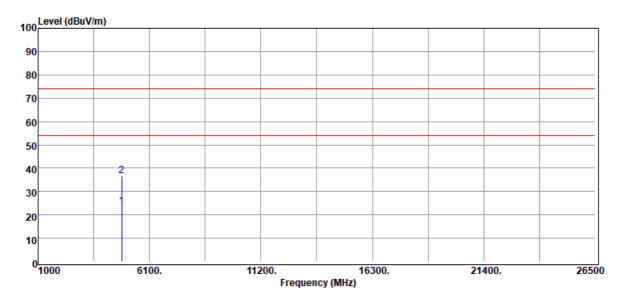


Operation Band :802.11n20 Temp./Humi. :23.4/72

Frequency :2412 MHz Antenna Pol. : VERTICAL

Operation Mode :TX CH LOW Engineer :Kailin

EUT Pol. :E1 Plan



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AV | dΒμV | dB | dBµV/m | dΒμV/m | dB |
| 4824.00 | Average | 20.58 | 2.84 | 23.42 | 54.00 | -30.58 |
| 4824.00 | Peak | 33.67 | 2.84 | 36.51 | 74.00 | -37.49 |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明·此報告結果僅對測試之樣品負責·同時此樣品僅保留%天。本報告未經本公司書面許可·不可部份複製。



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Report Number :T190815W03

Operation Band :802.11n20

Frequency :2412 MHz

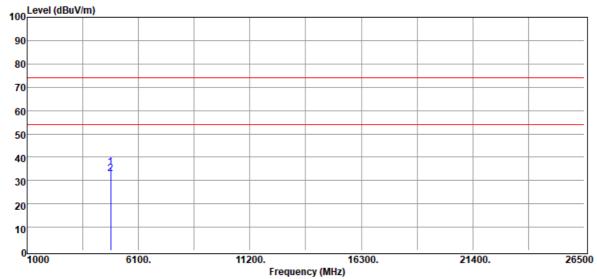
Operation Mode :TX CH LOW

EUT Pol. :E1 Plan Test Date :2019-08-21

Temp./Humi. :23.4/72

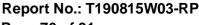
Antenna Pol. :HORIZONTAL

Engineer :Kailin



| Freq. | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB |
| 4824.00 | Average | 32.74 | 2.84 | 35.58 | 54.00 | -18.42 |
| 4824.00 | Peak | 30.01 | 2.84 | 32.85 | 74.00 | -41.15 |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明·此報告結果僅對測試之樣品負責·同時此樣品僅保留%天。本報告未經本公司書面許可·不可部份複製。



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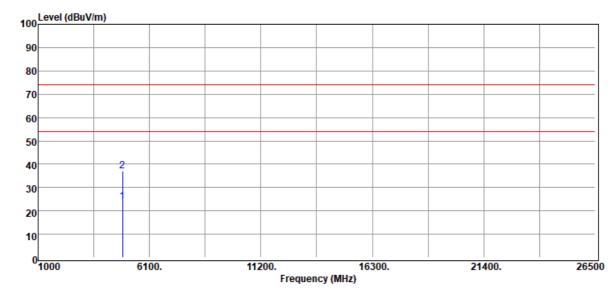
Report Number :T190815W03 Test Date :2019-08-21

Operation Band :802.11n20 Temp./Humi. :23.4/72

Frequency :2437 MHz Antenna Pol. : VERTICAL

Operation Mode :TX CH MID Engineer :Kailin

EUT Pol. :E1 Plan



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AV | dΒμV | dB | dBμV/m | dΒμV/m | dB |
| 4874.00 | Average | 20.77 | 2.98 | 23.75 | 54.00 | -30.25 |
| 4874.00 | Peak | 34.02 | 2.98 | 37.00 | 74.00 | -37.00 |

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明·此報告結果僅對測試之樣品負責·同時此樣品僅保留%天。本報告未經本公司書面許可·不可部份複製。



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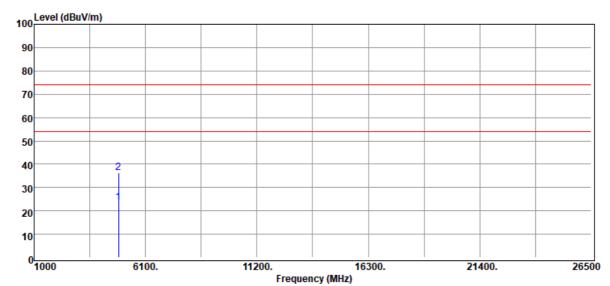
Report Number :T190815W03 Test Date :2019-08-21

Operation Band :802.11n20 Temp./Humi. :23.4/72

Frequency :2437 MHz Antenna Pol. :HORIZONTAL

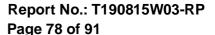
Operation Mode :TX CH MID Engineer :Kailin

EUT Pol. :E1 Plan



| Freq. | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB |
| 4874.00 | Average | 20.47 | 2.98 | 23.45 | 54.00 | -30.55 |
| 4874.00 | Peak | 33.22 | 2.98 | 36.20 | 74.00 | -37.80 |

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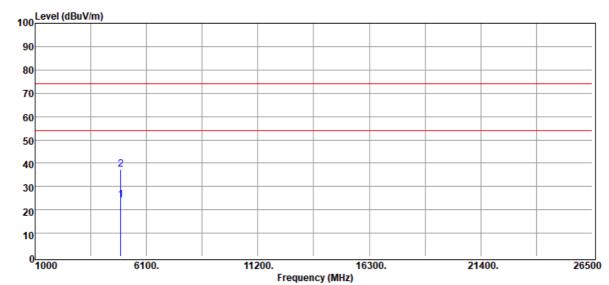


Operation Band :802.11n20 Temp./Humi. :23.1/68

Frequency :2462 MHz Antenna Pol. : VERTICAL

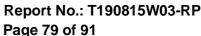
Operation Mode :TX CH HIGH Engineer :Kailin

EUT Pol. :E1 Plan



| Freq. | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB |
| 4924.00 | Average | 20.90 | 3.46 | 24.36 | 54.00 | -29.64 |
| 4924.00 | Peak | 33.93 | 3.46 | 37.39 | 74.00 | -36.61 |

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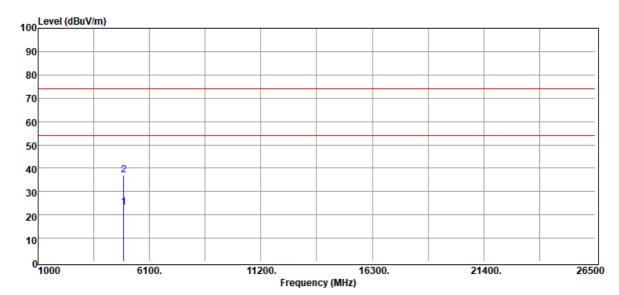


Operation Band :802.11n20 Temp./Humi. :23.1/68

Frequency :2462 MHz Antenna Pol. :HORIZONTAL

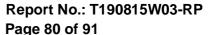
Operation Mode :TX CH HIGH Engineer :Kailin

EUT Pol. :E1 Plan



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AV | dΒμV | dB | dBµV/m | dΒμV/m | dB |
| 4924.00 | Average | 19.62 | 3.46 | 23.08 | 54.00 | -30.92 |
| 4924.00 | Peak | 33.64 | 3.46 | 37.10 | 74.00 | -36.90 |

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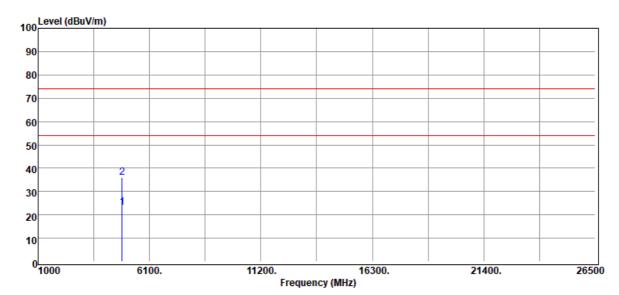


Operation Band :802.11n40 Temp./Humi. :23.3/74

Frequency :2422 MHz Antenna Pol. : VERTICAL

Operation Mode :TX CH LOW Engineer :Kailin

EUT Pol. :E1 Plan



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AV | dΒμV | dB | dBµV/m | dΒμV/m | dB |
| 4844.00 | Average | 20.33 | 2.84 | 23.17 | 54.00 | -30.83 |
| 4844.00 | Peak | 33.29 | 2.84 | 36.13 | 74.00 | -37.87 |

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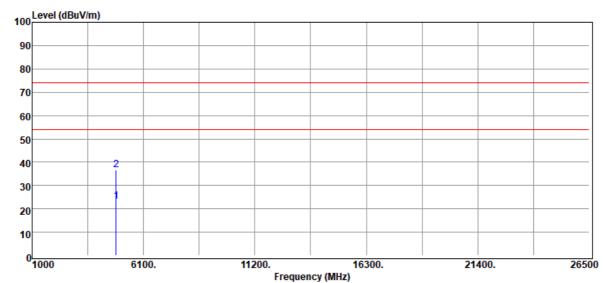


Report Number :T190815W03 Test Date :2019-08-21

Operation Band :802.11n40 Temp./Humi. :23.3/74

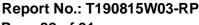
Frequency :2422 MHz Antenna Pol. :HORIZONTAL

Operation Mode :TX CH LOW Engineer :Kailin EUT Pol. :E1 Plan



| Freq. | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | PK/QP/AV | dΒμV | dB | dBµV/m | dBμV/m | dB |
| 4844.00 | Average | 20.28 | 2.84 | 23.12 | 54.00 | -30.88 |
| 4844.00 | Peak | 33.88 | 2.84 | 36.72 | 74.00 | -37.28 |

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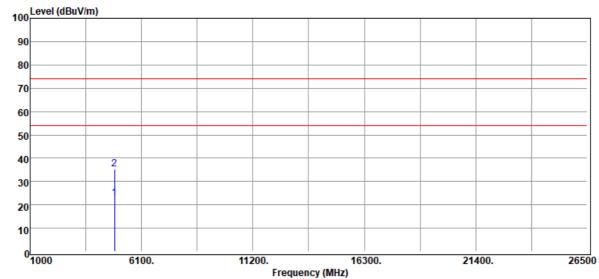
Report Number :T190815W03 **Test Date** :2019-08-21

Operation Band :802.11n40 Temp./Humi. :23.5/67

Frequency :2437 MHz Antenna Pol. : VERTICAL

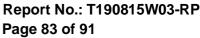
Operation Mode :TX CH MID Engineer :Kailin

EUT Pol. :E1 Plan



| Freq. | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | PK/QP/AV | dΒμV | dB | dBμV/m | dBμV/m | dB |
| 4874.00 | Average | 19.95 | 2.98 | 22.93 | 54.00 | -31.07 |
| 4874.00 | Peak | 32.34 | 2.98 | 35.32 | 74.00 | -38.68 |

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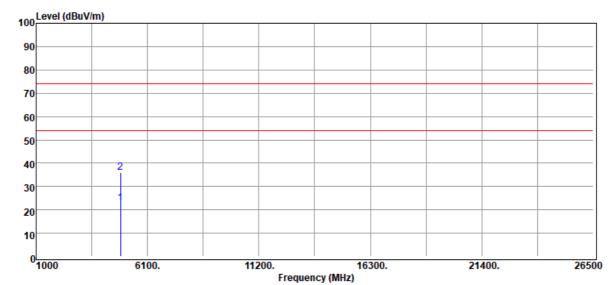


Operation Band :802.11n40 Temp./Humi. :23.5/67

Frequency :2437 MHz Antenna Pol. :HORIZONTAL

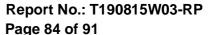
Operation Mode :TX CH MID Engineer :Kailin

EUT Pol. :E1 Plan



| Freq. | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | PK/QP/AV | dΒμV | dB | dBµV/m | dBμV/m | dB |
| 4874.00 | Average | 19.71 | 2.98 | 22.69 | 54.00 | -31.31 |
| 4874.00 | Peak | 33.17 | 2.98 | 36.15 | 74.00 | -37.85 |

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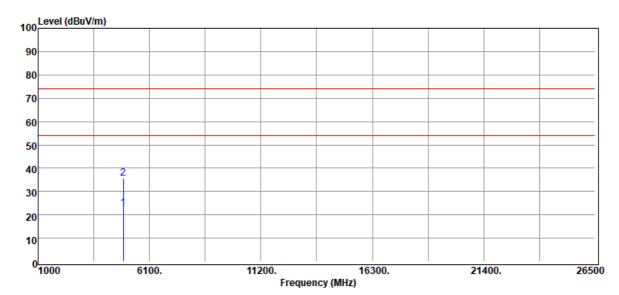


Operation Band :802.11n40 Temp./Humi. :23.2/69

Frequency :2452 MHz Antenna Pol. : VERTICAL

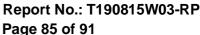
Operation Mode :TX CH HIGH Engineer :Kailin

EUT Pol. :E1 Plan



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AV | dΒμV | dB | dBµV/m | dΒμV/m | dB |
| 4904.00 | Average | 19.46 | 3.22 | 22.68 | 54.00 | -31.32 |
| 4904.00 | Peak | 32.56 | 3.22 | 35.78 | 74.00 | -38.22 |

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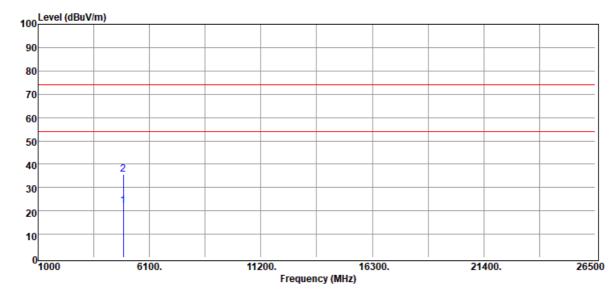


Operation Band :802.11n40 Temp./Humi. :23.2/69

Frequency :2452 MHz Antenna Pol. :HORIZONTAL

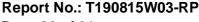
Operation Mode :TX CH HIGH Engineer :Kailin

EUT Pol. :E1 Plan



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|----------|---------------|--------|--------|--------|--------|
| | Mode | Reading Level | | FS | @3m | |
| MHz | PK/QP/AV | dΒμV | dB | dBµV/m | dΒμV/m | dB |
| 4904.00 | Average | 18.95 | 3.22 | 22.17 | 54.00 | -31.83 |
| 4904.00 | Peak | 32.26 | 3.22 | 35.48 | 74.00 | -38.52 |

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POWER SPECTRAL DENSITY 12

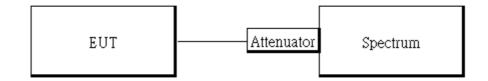
12.1 **Standard Applicable**

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

12.2 **Measurement Equipment Used**

| Conducted Emission Test Site | | | | | | |
|------------------------------|------------|-----------------|------------------|--------------|------------|--|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. | |
| DC Block | PASTERNACK | PE8210 | RF256 | 02/26/2019 | 02/25/2020 | |
| Spectrum Analyzer | Agilent | N9010A | MY5340025 6 | 11/21/2018 | 11/20/2019 | |
| Attenuator | Marvelous | MVE2213-10 | RF80 | 02/26/2019 | 02/25/2020 | |

12.3 Test Set-up



Measurement Procedure

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Set the span to 1.5 times the DTS channel bandwidth.
- 4. Set the RBW = 3 kHz & VBW = 10 kHz.
- 5. For defining Restricted Band Edge Limit: Set the RBW = 100kHz & VBW = 300 kHz
- 6. Detector = peak.
- 7. Sweep time = auto couple.
- 8. Trace mode = max hold.
- 9. Allow trace to fully stabilize.
- 10. Use the peak marker function to determine the maximum amplitude level.

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Measurement Result 12.5

| POWER DENSITY 802.11b_Ch0 | | | | | |
|---------------------------|-------------------|---------------------|----------------|--|--|
| Freq. | PSD | Limit | Result | | |
| (MHz) | (dBm/3kHz) | (dBm/3kHz) | Result | | |
| 2412 | -8.64 | 8.00 | PASS | | |
| 2437 | -8.62 | 8.00 | PASS | | |
| 2462 | -7.92 | 8.00 | PASS | | |
| POWER DENSITY 802.11g_Ch0 | | | | | |
| | | - | | | |
| Freq. | PSD | Limit | Docult | | |
| Freq. (MHz) | PSD (dBm/3kHz) | Limit (dBm/3kHz) | Result | | |
| | | | Result PASS | | |
| (MHz) | (dBm/3kHz) | (dBm/3kHz) | | | |

| POWER DENSITY 802.11n HT20_Ch0 | | | | POWER DENSITY 802.11n HT40_Ch0 | | | |
|--------------------------------|------------|------------|--------|--------------------------------|------------|------------|--------|
| Freq. | PSD | Limit | Result | Freq. | PSD | Limit | Result |
| (MHz) | (dBm/3kHz) | (dBm/3kHz) | Result | (MHz) | (dBm/3kHz) | (dBm/3kHz) | Result |
| 2412 | -11.80 | 8.00 | PASS | 2422 | -15.78 | 8.00 | PASS |
| 2437 | -11.38 | 8.00 | PASS | 2437 | -16.56 | 8.00 | PASS |
| 2462 | -11.33 | 8.00 | PASS | 2452 | -16.82 | 8.00 | PASS |

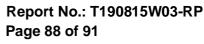
| Note | | |
|------------|-------|----|
| Cable Loss | 10.60 | dB |

^{*}Refer to next page for plots

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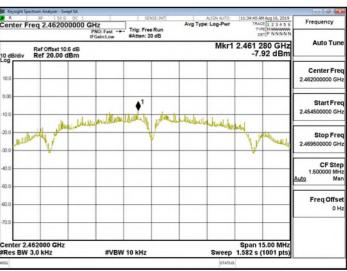
Power Density_802.11b_20MHz_Chain0_2412MHz



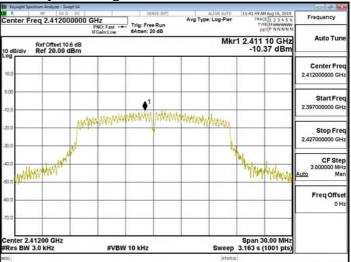
Power Density_802.11b_20MHz_Chain0_2437MHz



Power Density 802.11b 20MHz Chain0 2462MHz



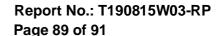
Power Density_802.11g_20MHz_Chain0_2412MHz



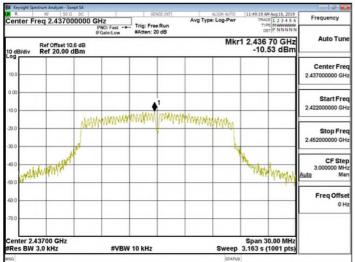
Power Density_802.11g_20MHz_Chain0_2437MHz

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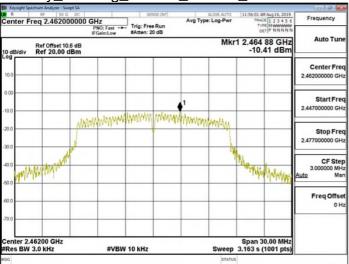
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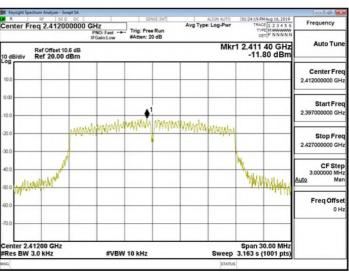




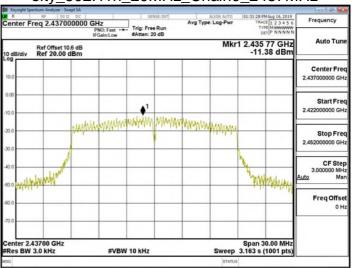
Power Density_802.11g_20MHz_Chain0_2462MHz



Power Density_802.11n_20MHz_Chain0_2412MHz



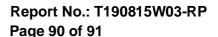
Power Density_802.11n_20MHz_Chain0_2437MHz



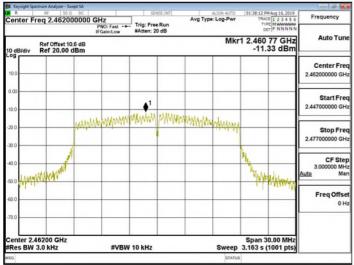
Power Density_802.11n_20MHz_Chain0_2462MHz

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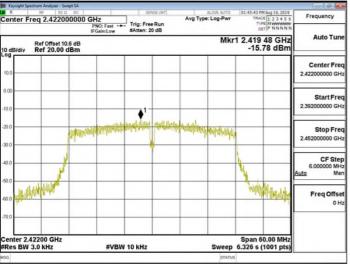
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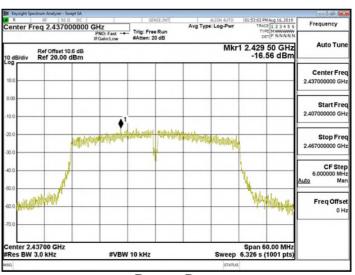




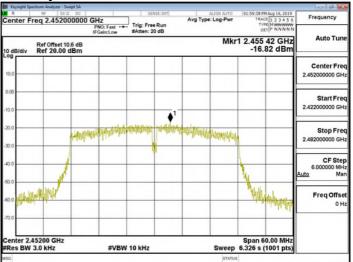
Power Density 802.11n 40MHz Chain0 2422MHz



Power Density_802.11n_40MHz_Chain0_2437MHz



Power Density_802.11n_40MHz_Chain0_2452MHz



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ANTENNA REQUIREMENT 13

13.1 **Standard Applicable**

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

If the transmitting antenna is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi.

13.2 **Antenna Connected Construction**

The antenna is designed as permanently attached and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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