FCC RF Test Report

APPLICANT : Plume Design Inc

EQUIPMENT: Plume Pod

BRAND NAME : Plume Design Inc

MODEL NAME : A2A

MARKETING NAME : Plume Adaptive WiFi

FCC ID : 2AG7G-A2A

STANDARD : FCC Part 15 Subpart E §15.407

CLASSIFICATION : (NII) Unlicensed National Information Infrastructure

The product was received on Jun. 28, 2018 and testing was completed on Oct. 28, 2018. We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

This report contains data that were produced under subcontract by Laboratory SPORTON INTERNATIONAL INC.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Kunshan) Inc., the test report shall not be reproduced except in full.



Approved by: James Huang / Manager

Sporton International (Kunshan) Inc.

No. 1098, Pengxi North Road, Kunshan Economic Development Zone, Jiangsu Province 215335, China

Sporton International (Kunshan) Inc.

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| REPORT NO. | VERSION | DESCRIPTION | ISSUED DATE |
|------------|---------|-------------------------|---------------|
| FR860502E | Rev. 01 | Initial issue of report | Nov. 06, 2018 |
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SUMMARY OF TEST RESULT

| Report Section | FCC Rule Description | | Limit | Result | Remark |
|-------------------|-----------------------|--|-----------------------------|--------|---|
| 3.1 | 2.1049 & 15.403(i) | 26dB & 99% Bandwidth | - | Pass | - |
| 3.2 | 15.407(a) | Maximum Conducted Output Power | ≤24 dBm | Pass | - |
| 3.3 | 15.407(a) | Power Spectral Density | ≤11 dBm | Pass | - |
| 3.4 | 15.407(b) | Unwanted Emissions | 15.407(b) & 15.209(a) | Pass | Under limit 1.03 dB at 10600.000 MHz |
| 3.5 | 15.207 | AC Conducted Emission | 15.207(a) | Pass | Under limit 5.19 dB at 0.375 MHz |
| 3.6 | 15.407(c) | Automatically Discontinue Transmission | Discontinue Transmission | Pass | - |
| 3.7 | 15.203 & 15.407(a) | Antenna Requirement | N/A | Pass | - |

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1 General Description

1.1 Applicant

Plume Design Inc

290 California Ave, Suite 200, Palo Alto, CA 94306, USA

1.2 Manufacturer

Plume Design Inc

290 California Ave, Suite 200, Palo Alto, CA 94306, USA

1.3 Product Feature of Equipment Under Test

| Product Feature | | | | |
|---------------------------------|--|--|--|--|
| Equipment | Plume Pod | | | |
| Brand Name | Plume Design Inc | | | |
| Model Name | A2A | | | |
| Marketing Name | Plume Adaptive WiFi | | | |
| FCC ID | 2AG7G-A2A | | | |
| EUT supports Radios application | WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 Bluetooth LE | | | |
| HW Version | N/A | | | |
| SW Version | N/A | | | |
| EUT Stage | Production Unit | | | |

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Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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1.4 Product Specification of Equipment Under Test

| Standards-r | elated Product Specification |
|---|---|
| Ty/Dy Fraguency Banga | 5260 MHz ~ 5320 MHz |
| Tx/Rx Frequency Range | 5500 MHz ~ 5720 MHz |
| Maximum Output Power to Antenna <cdd modes=""></cdd> | <pre><ant 1=""> <5260 MHz ~ 5320 MHz> 802.11a : 20.40 dBm / 0.1096 W 802.11n HT20 : 20.08 dBm / 0.1019 W 802.11n HT40 : 19.59 dBm / 0.0910 W 802.11ac VHT80 : 13.99 dBm / 0.0251 W <5500 MHz ~ 5720 MHz > 802.11a : 14.40 dBm / 0.0275 W 802.11n HT20 : 13.50 dBm / 0.0224 W 802.11n HT40 : 16.27 dBm / 0.0424 W 802.11ac VHT80 : 16.89 dBm / 0.0489 W MIMO <ant 1+2=""> <5260 MHz ~ 5320 MHz> 802.11a : 20.43 dBm / 0.1104 W 802.11n HT20 : 21.06 dBm / 0.1276 W 802.11n HT40 : 21.04 dBm / 0.1271 W 802.11ac VHT80 : 14.35 dBm / 0.0272 W <5500 MHz ~ 5720 MHz > 802.11a : 16.51 dBm / 0.0448 W 802.11n HT20 : 16.82 dBm / 0.0481 W 802.11n HT40 : 19.47 dBm / 0.0885 W</ant></ant></pre> |
| Maximum Output Power to Antenna <beamforming modes=""></beamforming> | 802.11ac VHT80: 19.59 dBm / 0.0910 W MIMO <ant 1+2=""> <5260 MHz ~ 5320 MHz> 802.11a: 20.28 dBm / 0.1067 W 802.11n HT20: 20.30 dBm / 0.1072 W 802.11n HT40: 20.01 dBm / 0.1002 W 802.11ac VHT80: 20.57 dBm / 0.1140 W <5500 MHz ~ 5720 MHz > 802.11a: 18.52 dBm / 0.0711 W 802.11n HT20: 18.63 dBm / 0.0729 W 802.11n HT40: 19.02 dBm / 0.0798 W 802.11ac VHT80: 20.31 dBm / 0.1074 W</ant> |
| 99% Occupied Bandwidth <cdd modes=""></cdd> | <ant 1=""> <5260 MHz ~ 5320 MHz> 802.11a: 17.43 MHz 802.11n HT20: 18.43 MHz 802.11n HT40: 36.36 MHz 802.11ac VHT80: 75.76 MHz <5500 MHz ~ 5720 MHz > 802.11a: 17.13 MHz 802.11n HT20: 18.23 MHz 802.11n HT40: 35.96 MHz 802.11ac VHT80: 76.00 MHz MIMO <ant 1+2=""> <5260 MHz ~ 5320 MHz> 802.11a: 17.18 MHz 802.11n HT20: 18.28 MHz 802.11n HT20: 36.16 MHz</ant></ant> |

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| Γ | T | | | |
|--------------------------------------|--|----------------|-----------------|--|
| | 802.11ac VHT80 : 75.88 MHz | | | |
| | <5500 MHz ~ 5720 | | | |
| | 802.11a : 17.28 MHz | | | |
| | 802.11n HT20 : 18.43 MHz | | | |
| | 802.11n HT40 : 36 | | | |
| | 802.11ac VHT80 : 76.00 MHz | | | |
| | MIMO <ant 1+2=""></ant> | | | |
| | <5260 MHz ~ 5320 | • ···· ·=- | | |
| | 802.11a : 17.13 MI | · | | |
| | 802.11n HT20 : 18 | - | | |
| 99% Occupied Bandwidth | 802.11n HT40 : 36 | - | | |
| <beamforming modes=""></beamforming> | 802.11ac VHT80 : | | | |
| | <5500 MHz ~ 5720 MHz > | | | |
| | 802.11a : 17.13 MHz | | | |
| | 802.11n HT20 : 18.43 MHz | | | |
| | 802.11n HT40 : 36.26 MHz | | | |
| | 802.11ac VHT80 : 76.00 MHz | | | |
| | <5250 MHz ~ 5350 | | | |
| | <ant. 1="">: Loop Antenna with gain 2.13 dBi</ant.> | | | |
| Antenna Gain / Gain | <ant. 2=""> : Loop Antenna with gain 1.89 dBi</ant.> | | | |
| Antenna Gam / Gam | <5470 MHz ~ 5720 MHz> | | | |
| | <ant. 1="">: Loop Antenna with gain 1.55 dBi</ant.> | | | |
| | <ant. 2=""> : Loop Antenna with gain 1.89 dBi</ant.> | | | |
| | 802.11a/n: OFDM (BPSK / QPSK / 16QAM / 64QAM) | | | |
| Type of Modulation | 802.11ac : OFDM | (BPSK / QPSK / | 16QAM / 64QAM / | |
| | 256QAM) | • | | |
| | İ | Ant. 1 | Ant. 2 | |
| | | Ant. I | Ant. Z | |
| Antonno Eurotion Description | 802.11 a/n/ac | V | - | |
| Antenna Function Description | 000 44 0/0/ | | | |
| | 802.11 a/n/ac MIMO | V | V | |
| | IVIIIVIO | | | |

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Note:

- 1. MIMO Ant. 1+2 is a calculated result from sum of the power MIMO Ant. 1 and MIMO Ant. 2.
- 2. For 802.11n HT20 / ac VHT20 and 802.11n HT40 / ac VHT40 mode, the whole testing is assessed only 802.11n HT20/ HT40 by referring to their higher conducted power.

1.5 Modification of EUT

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

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1.6 Testing Location

SPORTON INTERNATIONAL INC. is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190) and under the FCC-recognized accredited testing laboratories by Mutual Recognition Agreement (MRA) in FCC Test.

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| Test Site | SPORTON INTERNATIONAL INC. | | |
|--------------------|---|--|--|
| | No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park, | | |
| Test Site Location | Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C. | | |
| rest Site Location | TEL: +886-3-327-3456 | | |
| | FAX: +886-3-328-4978 | | |
| Took Site No | Sporton Site No. | | |
| Test Site No. | CO05-HY | | |

Note: Test data subcontracted: Conducted Emission in section 3.5 of this report.

Sporton International (Kunshan) Inc. is accredited to ISO 17025 by National Voluntary Laboratory Accreditation Program (NVLAP code: 600155-0).

| Test Site | Sporton International (Kunshan) Inc. | | | |
|--------------------|---|---------------------|----------------------------|--|
| | No. 1098, Pengxi North Road, Kunshan Economic Development Zone, | | | |
| Test Site Location | Jiangsu Province 215335, China | | | |
| rest Site Location | TEL: 86-512-57900158 | | | |
| | FAX: 86-512-57900958 | | | |
| | Sporton Site No. | FCC designation No. | FCC Test Firm Registration | |
| Test Site No. | Sporton Site No. | rec designation No. | No. | |
| lest site NO. | TH01-KS | CN5013 | 630927 | |
| | 03CH04-KS/03CH02-KS | C143013 | 030921 | |

1.7 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2013

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

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2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

| Frequency Band | Channel | Freq. (MHz) | Channel | Freq. (MHz) |
|-------------------------|---------|----------------|---------|----------------|
| | 52 | 5260 | 60 | 5300 |
| 5260-5320 MHz Band 2 | 54* | 5270 | 62* | 5310 |
| (U-NII-2A) | 56 | 5280 | 64 | 5320 |
| (3 1111 271) | 58# | 5290 | | |

| Frequency Band | Channel | Freq. (MHz) | Channel | Freq. (MHz) |
|-------------------------|---------|----------------|---------|----------------|
| | 100 | 5500 | 112 | 5560 |
| | 102* | 5510 | 116 | 5580 |
| 5500-5720 MHz Band 3 | 104 | 5520 | 132 | 5660 |
| (U-NII-2C) | 106# | 5530 | 134* | 5670 |
| (5 1111 25) | 108 | 5540 | 136 | 5680 |
| | 110* | 5550 | 140 | 5700 |

| Frequency Band | Channel | Freq. (MHz) | Channel | Freq. (MHz) |
|----------------|---------|----------------|---------|----------------|
| | 118* | 5590 | 124 | 5620 |
| TDWR Channel | 120 | 5600 | 126* | 5630 |
| | 122# | 5610 | 128 | 5640 |

| Frequency Band | Channel | Freq. (MHz) | Channel | Freq. (MHz) |
|------------------|---------|----------------|---------|----------------|
| Straddle Channel | 138# | 5690 | 144 | 5720 |
| Straddle Channel | 142* | 5710 | | |

Note:

1. The above Frequency and Channel in "*" were 802.11n HT40.

2. The above Frequency and Channel in "#" were 802.11ac VHT80.

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2.2 Test Mode

Final test modes are considering the modulation and worse data rates as below table.

MIMO Mode

| Modulation | Data Rate |
|----------------|-----------|
| 802.11a | 6 Mbps |
| 802.11n HT20 | MCS0 |
| 802.11n HT40 | MCS0 |
| 802.11ac VHT80 | MCS0 |

TXBF Mode

| Modulation | Data Rate |
|------------------|-----------|
| 8 02 .11a | 6 Mbps |
| 802.11n HT20 | MCS0 |
| 802.11n HT40 | MCS0 |
| 802.11ac VHT80 | MCS0 |

| Test Cases | | | | | |
|--|---|--|--|--|--|
| AC Conducted Emission | Conducted Mode 1: WLAN Link(5G) + Bluetooth Link + Lan Link(Ping) Mode 2: WLAN Link(5G) + Bluetooth Link + Lan Link(TX) | | | | |
| Remark: The worst case of conducted emission is mode 2; only the test data of it was reported. | | | | | |

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| Ch. # | | Band II:5260-5320 MHz | Band III:5500-5720MHz | |
|-------|-----------------|-----------------------|-----------------------|--|
| | | 802.11a | 802.11a | |
| L | _ Low 52 | | 100 | |
| M | M Middle 60 | | 116 | |
| Н | High | 64 | 140 | |
| | Straddle | - | 144 | |

| Ch. # Band II : 5260-5320 MHz 802.11n HT20 | | Band II:5260-5320 MHz | Band III:5500-5720MHz | |
|--|---------------|-----------------------|----------------------------|--|
| | | 802.11n HT20 | 802.11n HT20 100 116 | |
| L | Low 52 | | 100 | |
| М | M Middle 60 | | 116 | |
| Н | High | 64 | 140 | |
| | Straddle | - | 144 | |

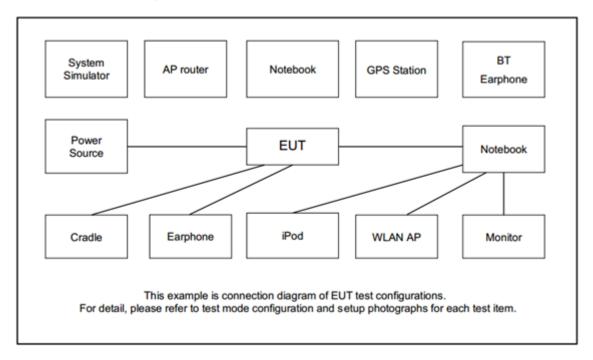
| | Ch. # | Band II:5260-5320 MHz | Band III:5500-5720MHz | | |
|---|--------------|-----------------------|-----------------------|--|--|
| | 802.11n HT40 | | 802.11n HT40 | | |
| L | Low | 54 | 102 | | |
| M | Middle | - | 110 | | |
| Н | High | 62 | 134 | | |
| | Straddle | - | 142 | | |

| | Ch. # | Band II:5260-5320 MHz | Band III:5500-5720MHz | | |
|---|----------------|-----------------------|-----------------------|--|--|
| | 802.11ac VHT80 | | 802.11ac VHT80 | | |
| L | Low | - | 106 | | |
| M | M Middle 58 | | - | | |
| Н | High | - | 122 | | |
| | Straddle | - | 138 | | |

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2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

| Item | Equipment | Trade Name | Model Name | FCC ID | Data Cable | Power Cord |
|------|-------------|------------|------------|---------|----------------|--|
| 1. | Notebook | Dell | E5570 | FCC DoC | | AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m |
| 2. | Notebook | Dell | E3340 | FCC DoC | N/A | AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m |
| 3. | LCD MONITOR | Asus | PB27UQ | FCC DoC | Shielded, 1.6m | Unshielded 1.8m |
| 4. | iPod | Apple | A1285 | FCC DoC | Shielded, 1.0m | N/A |

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2.5 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuously transmit/receive.

For AC power line conducted emissions, the EUT was set to connect with the Notebook under large package sizes transmission.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 6.1 dB.

 $Offset(dB) = RF \ cable \ loss(dB).$ = 6.1 (dB)

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3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.

There is no restriction limits for bandwidth.

For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

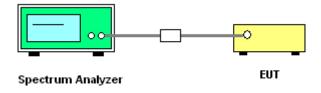
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

- The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
 Section C) Emission bandwidth
- 2. Set RBW = approximately 1% of the emission bandwidth.
- 3. Set the VBW > RBW.
- 4. Detector = Peak.
- 5. Trace mode = max hold
- 6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
- 7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1MHz and set the Video bandwidth (VBW) ≥ 3 * RBW.
- 8. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

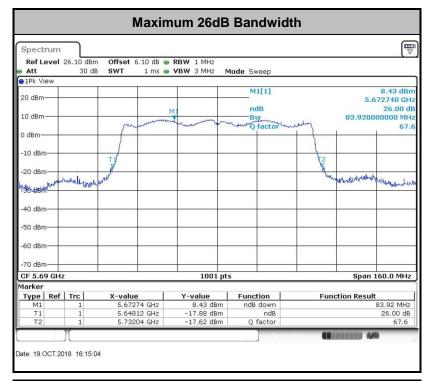
Please refer to Appendix A.

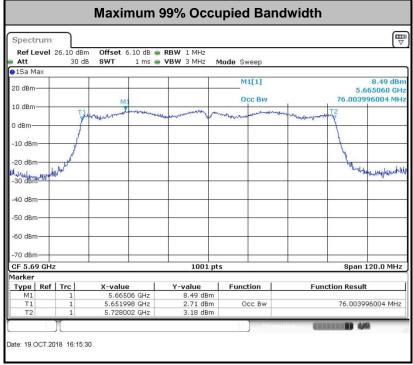
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<CDD Mode>



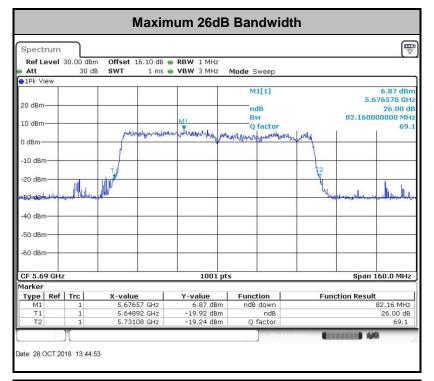


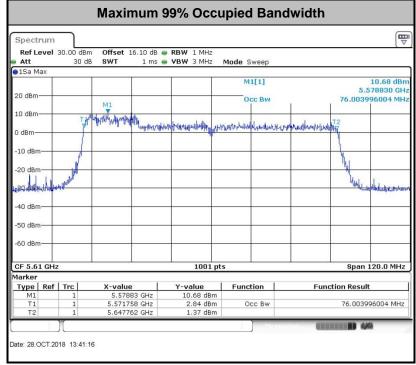
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

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<TXBF Modes>





Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

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3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For the 5.25–5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz.

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For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note that U-NII-2 band, devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

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3.2.3 Test Procedures

<CDD Modes>

The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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Method PM (Measurement using an RF average power meter):

- 1. Measurement is performed using a wideband RF power meter.
- 2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
- 3. Measure the average power of the transmitter, and the average power is corrected with duty factor, $10 \log(1/x)$, where x is the duty cycle.

<TXBF Modes>

The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01 for TXBF modes.

Method PM-G (Measurement using a gated RF average power meter):

- 1. Measurement is performed using a wideband RF power meter.
- 2. The EUT is configured to transmit at its maximum power control level.
- 3. Measure the average power of the transmitter
- 4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

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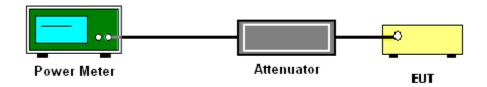
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3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

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3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

<FCC 14-30 CFR 15.407>

For the 5.25–5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

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For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

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3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section F) Maximum power spectral density.

<CDD/ TXBF Modes>

Method SA-2

(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add 10 log(1/x), where x is the duty cycle, to the measured power in order to compute the
 average power during the actual transmission times. For example, add 10 log(1/0.25) = 6
 dB if the duty cycle is 25 percent.
- 1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
- 2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
- For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Method (a): Measure and sum the spectra across the outputs.

The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points, the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.

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3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

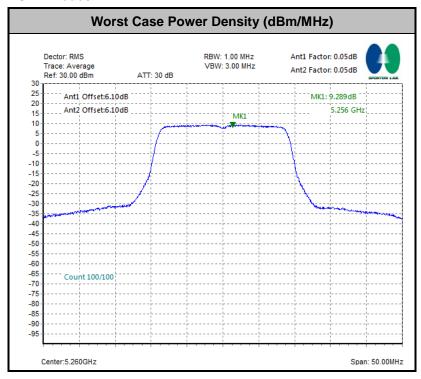
Please refer to Appendix A.

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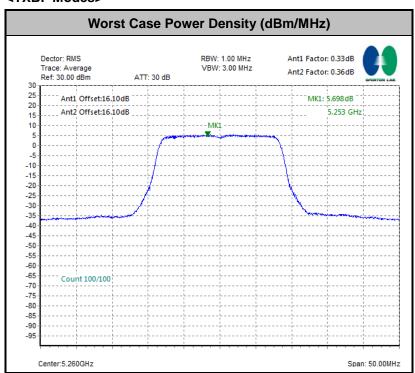
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<CDD Modes>



<TXBF Modes>



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3.4 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

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3.4.1 Limit of Unwanted Emissions

(1) For transmitters operating in the 5250-5350 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5150-5250 MHz band.

For transmitters operating in the 5470-5600 MHz and 5650-5725MHz band: all emissions outside of the 5470-5600 MHz and 5650-5725MHz band shall not exceed an EIRP of -27 dBm/MHz.

(2) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table,

| Frequency | Field Strength | Measurement Distance |
|---------------|--------------------|----------------------|
| (MHz) | (microvolts/meter) | (meters) |
| 0.009 – 0.490 | 2400/F(kHz) | 300 |
| 0.490 – 1.705 | 24000/F(kHz) | 30 |
| 1.705 – 30.0 | 30 | 30 |
| 30 – 88 | 100 | 3 |
| 88 – 216 | 150 | 3 |
| 216 - 960 | 200 | 3 |
| Above 960 | 500 | 3 |

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| EIRP (dBm) | Field Strength at 3m (dBµV/m) |
|------------|-------------------------------|
| - 27 | 68.3 |

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Note: The following formula is used to convert the EIRP to field strength.

$$EIRP = E_{Meas} + 20log (d_{Meas}) - 104.7$$

where

EIRP is the equivalent isotropically radiated power, in dBm

 E_{Meas} is the field strength of the emission at the measurement distance, in $dB\mu V/m$

 d_{Meas} is the measurement distance, in \boldsymbol{m}

3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

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3.4.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Section G) Unwanted emissions measurement.

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- (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
- (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW ≥ 3 MHz
 - Detector = Peak
 - Sweep time = auto
 - Trace mode = max hold
- (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
 - RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
- 2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- 3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- 4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- 5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- 6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
- 7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

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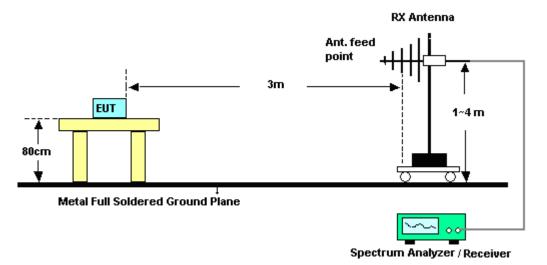
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3.4.4 Test Setup

For radiated emissions below 30MHz



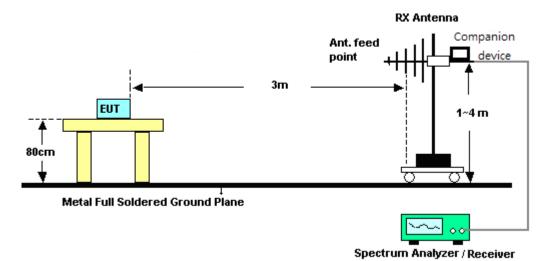
For radiated emissions from 30MHz to 1GHz <CDD Mode>



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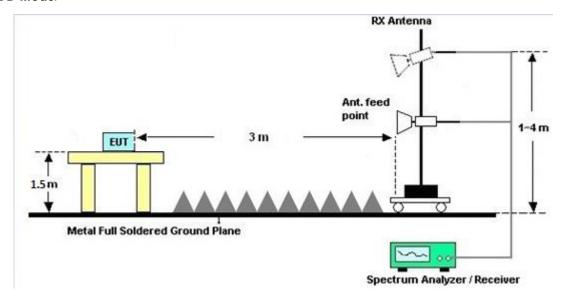
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<TXBF Modes>



For radiated emissions above 1GHz

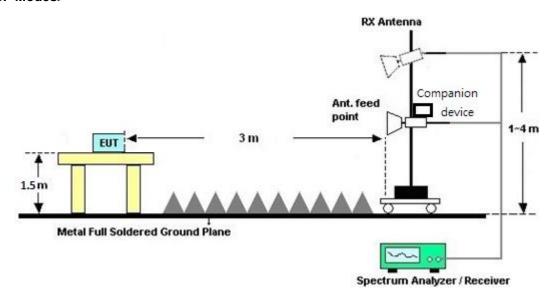
<CDD Mode>



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<TXBF Modes>



3.4.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 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 line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.4.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

3.4.7 Duty Cycle

Please refer to Appendix D.

3.4.8 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic)

Please refer to Appendix C.

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3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

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| Frequency of emission (MHz) | Conducted | limit (dΒμV) | | |
|-----------------------------|------------|--------------|--|--|
| | Quasi-peak | Average | | |
| 0.15-0.5 | 66 to 56* | 56 to 46* | | |
| 0.5-5 | 56 | 46 | | |
| 5-30 | 60 | 50 | | |

^{*}Decreases with the logarithm of the frequency.

3.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

FAX: 86-512-57900958

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

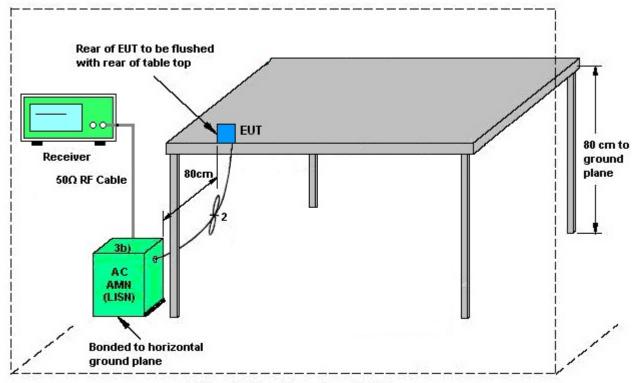
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3.5.4 Test Setup



AMN = Artificial mains network (LISN)

AE = Associated equipment

EUT = Equipment under test

ISN = Impedance stabilization network

3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

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3.6 Automatically Discontinue Transmission

3.6.1 Limit of Automatically Discontinue Transmission

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

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3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.6.3 Test Result of Automatically Discontinue Transmission

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

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3.7 Antenna Requirements

3.7.1 Standard Applicable

If transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = GANT + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = 10 log(NANT/NSS=1) dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4.

Directional gain may be calculated by using the formulas applicable to equal gain antennas with

GANT set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain GANT is set equal to the antenna having the highest gain, i.e., F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain "DG" is calculated as following table.

| <cdd mod<="" th=""><th>les></th><th></th><th></th><th></th><th></th><th></th></cdd> | les> | | | | | |
|--|--------|--------|-------|-------|-----------|-----------|
| | | | DG | DG | Power | PSD |
| | | | for | for | Limit | Limit |
| | Ant. 1 | Ant. 2 | Power | PSD | Reduction | Reduction |
| | (dBi) | (dBi) | (dBi) | (dBi) | (dB) | (dB) |
| Band II | 2.13 | 1.89 | 2.13 | 5.02 | 0.00 | 0.00 |
| Band III | 1.55 | 1.89 | 1.89 | 4.73 | 0.00 | 0.00 |

Power limit reduction = Composite gain - 6dBi, (min = 0)

PSD limit reduction = Composite gain + PSD Array gain - 6dBi, (min = 0)

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TXBF modes

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

$$Directional Gain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^{2}}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

 N_{SS} = the number of independent spatial streams of data;

 N_{ANT} = the total number of antennas

 $g_{j,k} = 10^{G_k/20}$ if the kth antenna is being fed by spatial stream j, or zero if it is not; G_k is the gain in dBi of the kth antenna.

The EUT supports beamforming for 802.11ac modes.

The directional gain calculation is following F)2)e)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain "DG" is calculated as following table.

| | | | DG | DG | Power | PSD |
|----------|-------|-------|-------|-------|-----------|-----------|
| | | | for | for | Limit | Limit |
| | Ant 1 | Ant 2 | Power | PSD | Reduction | Reduction |
| | (dBi) | (dBi) | (dBi) | (dBi) | (dB) | (dB) |
| Band II | 2.13 | 1.89 | 5.02 | 5.02 | 0.00 | 0.00 |
| Band III | 1.55 | 1.89 | 4.73 | 4.73 | 0.00 | 0.00 |

Power Limit Reduction = DG(Power) - 6dBi, (min = 0)

 $PSD \ Limit \ Reduction = DG(PSD) - 6dBi, (min = 0)$

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4 List of Measuring Equipment

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|--------------------------|--------------------|-------------------|-------------------|--|---------------------|---------------------------------|---------------|--------------------------|
| Spectrum Analyzer | R&S | FSV40 | 101040 | 10Hz~40GHz | Aug. 07, 2018 | Oct. 19, 2018~ Oct. 28, 2018 | Aug. 06, 2019 | Conducted (TH01-KS) |
| Pulse Power Senor | Anritsu | MA2411B | 0917070 | 300MHz~40GH z | Jan. 18, 2018 | Oct. 19, 2018~ Oct. 28, 2018 | Jan. 17, 2019 | Conducted (TH01-KS) |
| Power Meter | Anritsu | ML2495A | 1005002 | 50MHz Bandwidth | Jan. 18, 2018 | Oct. 19, 2018~ Oct. 28, 2018 | Jan. 17, 2019 | Conducted (TH01-KS) |
| USB RFPower Sensor | Dare | RPR3006W | 15I00041S NO93 | 50MHz~6GHz , -50dBm~ +10dBm | Jan. 18, 2018 | Oct. 19, 2018~ Oct. 28, 2018 | Jan. 17, 2019 | Conducted (TH01-KS) |
| USB RFPower Sensor | Dare | RPR3006W | 15I00041S NO94 | 50MHz~6GHz [,] -50dBm~ +10dBm | Jan. 18, 2018 | Oct. 19, 2018~ Oct. 28, 2018 | Jan. 17, 2019 | Conducted (TH01-KS) |
| EMI Test Receiver | R&S | ESR7 | 101403 | 9kHz~7GHz;Ma x 30dBm | Aug. 07, 2018 | Oct. 22, 2018 | Aug. 06, 2019 | Radiation (03CH02-KS) |
| Loop Antenna | R&S | HFH2-Z2 | 100321 | 9kHz~30MHz | Oct. 19, 2018 | Oct. 22, 2018 | Oct. 18, 2019 | Radiation (03CH02-KS) |
| Bilog Antenna | TeseQ | CBL6112D | 23182 | 30MHz-2GHz | Jan. 29, 2018 | Oct. 22, 2018 | Jan. 28, 2019 | Radiation (03CH02-KS) |
| Amplifier | SONOMA | 310N | 187289 | 9KHz-1GHz | Aug. 06, 2018 | Oct. 22, 2018 | Aug. 05, 2019 | Radiation (03CH02-KS) |
| AC Power Source | Chroma | 61601 | 616010002 473 | N/A | NCR | Oct. 22, 2018 | NCR | Radiation (03CH02-KS) |
| Turn Table | MF | MF7802 | N/A | 0~360 degree | NCR | Oct. 22, 2018 | NCR | Radiation (03CH02-KS) |
| Antenna Mast | MF | MF7802 | N/A | 1 m~4 m | NCR | Oct. 22, 2018 | NCR | Radiation (03CH02-KS) |
| EMI Test Receiver | Keysight | N9038A | MY564000 23 | 3Hz~8.5GHz;M ax 30dBm | Oct. 18, 2018 | Oct. 22, 2018 | Oct. 17, 2019 | Radiation (03CH04-KS) |
| EXA Spectrum Analyzer | Keysight | N9010A | MY553705 28 | 10Hz-44GHz | Oct. 13, 2018 | Oct. 22, 2018 | Oct. 12, 2019 | Radiation (03CH04-KS) |
| Horn Antenna | Schwarzbeck | BBHA9120D | 1648 | 1GHz~18GHz | Dec. 16, 2017 | Oct. 22, 2018 | Dec. 15, 2018 | Radiation (03CH04-KS) |
| SHF-EHF Horn | Schwarzbeck | BBHA 9170 | BBHA1702 49 | 15GHz~40GHz | Feb. 07, 2018 | Oct. 22, 2018 | Feb. 06, 2019 | Radiation (03CH04-KS) |
| Amplifier | Keysight | 83017A | MY532702 03 | 500MHz~26.5G Hz | Dec. 16, 2017 | Oct. 22, 2018 | Dec. 15, 2018 | Radiation (03CH04-KS) |
| Amplifier | MITEQ | TTA1840-35- HG | 2014749 | 18~40GHz | Feb. 08, 2018 | Oct. 22, 2018 | Feb. 07, 2019 | Radiation (03CH04-KS) |
| AC Power Source | Chroma | 61601 | F1040900 04 | N/A | NCR | Oct. 22, 2018 | NCR | Radiation (03CH04-KS) |
| Turn Table | ChamPro | EM 1000-T | 060762-T | 0~360 degree | NCR | Oct. 22, 2018 | NCR | Radiation (03CH04-KS) |
| Antenna Mast | ChamPro | EM 1000-A | 060762-A | 1 m~4 m | NCR | Oct. 22, 2018 | NCR | Radiation (03CH04-KS) |
| AC Power Source | ChainTek | APC-1000W | N/A | N/A | NCR | Jul. 11, 2018 | NCR | Conduction (CO05-HY) |
| EMI Test Receiver | Rohde & Schwarz | ESR3 | 102388 | 3.6GHz | Dec. 08, 2017 | Jul. 11, 2018 | Dec. 07, 2018 | Conduction (CO05-HY) |
| Hygrometer | Testo | 608-H1 | 34913912 | N/A | Mar. 06, 2018 | Jul. 11, 2018 | Mar. 05, 2019 | Conduction (CO05-HY) |
| LISN | Rohde & Schwarz | ENV216 | 100080 | 9kHz~30MHz | Nov. 30, 2017 | Jul. 11, 2018 | Nov. 29, 2018 | Conduction (CO05-HY) |
| LISN | Rohde & Schwarz | ENV216 | 100081 | 9kHz~30MHz | Dec. 08, 2017 | Jul. 11, 2018 | Dec. 07, 2018 | Conduction (CO05-HY) |
| Software | Rohde & Schwarz | EMC32 V10.30 | N/A | N/A | NCR | Jul. 11, 2018 | NCR | Conduction (CO05-HY) |
| LF Cable | HUBER + SUHNER | RG-214/U | LF01 | N/A | Jan. 03, 2018 | Jul. 11, 2018 | Jan. 02, 2019 | Conduction (CO05-HY) |
| Pulse Limiter | Rohde & Schwarz | ESH3-Z2 | 100851 | N/A | Jan. 03, 2018 | Jul. 11, 2018 | Jan. 02, 2019 | Conduction (CO05-HY) |

NCR: No Calibration Required

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5 Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz) for CO05-HY

| Measuring Uncertainty for a Level of Confidence | 2.7dB |
|---|-------|
| of 95% (U = 2Uc(y)) | 2.705 |

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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz) for 03CH02-KS

| Measuring Uncertainty for a Level of Confidence | 4.8dB |
|---|-------|
| of 95% (U = 2Uc(y)) | 4.000 |

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz) for 03CH04-KS

| Measuring Uncertainty for a Level of Confidence | EAJD |
|---|-------|
| of 95% (U = 2Uc(y)) | 5.0dB |

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz) for 03CH04-KS

| Measuring Uncertainty for a Level of Confidence | 5.0dB |
|---|-------|
| of 95% (U = 2Uc(y)) | 3.0dB |

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 Report Issued Date
 : Nov. 06, 2018

 FAX: 86-512-57900958
 Report Version
 : Rev. 01

FCC ID: 2AG7G-A2A Report Template No.: BU5-FR15EWL AC MA Version 2.0

Appendix A. Conducted Test Results

Sporton International (Kunshan) Inc.

TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: 2AG7G-A2A Page Number : A1 of A1
Report Issued Date : Nov. 06, 2018
Report Version : Rev. 01

Report Template No.: BU5-FR15EWL AC MA Version 2.0

Report No. : FR860502E

| Test Engineer: | Smile Wang | Temperature: | 21~25 | °C |
|----------------|-----------------------|--------------------|-------|----|
| Test Date: | 2018/10/19~2018/10/28 | Relative Humidity: | 51~54 | % |

TEST RESULTS DATA 26dB and 99% OBW CDD Modes

| | | | | | | | | Band | II | | | | | | |
|-------|--------------|-----|-----|----------------|-------|--------------------|-------|---------------------|-----------------------------|-------|-----------------------------|-------|-------|-------|------|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | | 9% width Hz) | Band | dB lwidth Hz) | IC 9 Band Powe (dE | width | IC 9 Band EIRP (dE | width | | | Note |
| | | | | | Ant 1 | Ant 2 | Ant 1 | Ant 2 | Ant 1 | Ant 2 | Ant 1 | Ant 2 | Ant 1 | Ant 2 | |
| 11a | 6Mbps | 1 | 52 | 5260 | 17.43 | | 23.28 | | | 29.41 | | 23.98 | | | |
| 11a | 6Mbps | 1 | 60 | 5300 | 17.18 | | 20.78 | | 23.35 | | 29.35 | | 23.98 | | |
| 11a | 6Mbps | 1 | 64 | 5320 | 17.08 | | 20.88 | | 23.33 | | 29.33 | | 23.98 | | |
| HT20 | MCS0 | 1 | 52 | 5260 | 18.43 | | 23.63 | | 23.66 | | 29.66 | | 23.98 | | |
| HT20 | MCS0 | 1 | 60 | 5300 | 18.43 | | 22.88 | | 23.66 | | 29.66 | | 23.98 | | |
| HT20 | MCS0 | 1 | 64 | 5320 | 18.18 | | 21.58 | | 23.60 | | 29.60 | | 23.98 | | |
| HT40 | MCS0 | 1 | 54 | 5270 | 36.36 | | 40.55 | | 23.98 | | 30.00 | | 23.98 | | |
| HT40 | MCS0 | 1 | 62 | 5310 | 36.06 | | 40.73 | | 23.98 | | 30.00 | | 23.98 | | |
| VHT80 | MCS0 | 1 | 58 | 5290 | 75.76 | | 83.76 | | 23.98 | | 30.00 | | 23.98 | | |
| 11a | 6Mbps | 2 | 52 | 5260 | 17.13 | 17.08 | 20.68 | 20.68 | 23. | 33 | 29. | 33 | 23. | 98 | |
| 11a | 6Mbps | 2 | 60 | 5300 | 17.18 | 17.08 | 20.73 | 20.58 | 23. | 33 | 29. | 33 | 23. | 98 | |
| 11a | 6Mbps | 2 | 64 | 5320 | 17.13 | 17.08 | 20.63 | 20.58 | 23. | 33 | 29. | 33 | 23. | 98 | |
| HT20 | MCS0 | 2 | 52 | 5260 | 18.28 | 18.23 | 21.63 | 21.73 | 23. | 61 | 29. | 61 | 23. | 98 | |
| HT20 | MCS0 | 2 | 60 | 5300 | 18.23 | 18.23 | 21.73 | 21.68 | 23. | 61 | 29. | 61 | 23. | 98 | |
| HT20 | MCS0 | 2 | 64 | 5320 | 18.18 | 18.18 | 21.53 | 21.28 | 23. | 60 | 29. | 60 | 23. | 98 | |
| HT40 | MCS0 | 2 | 54 | 5270 | 36.16 | 36.16 | 40.55 | 40.37 | 23. | 98 | 30. | 00 | 23. | 98 | |
| HT40 | MCS0 | 2 | 62 | 5310 | 36.06 | 36.06 | 40.64 | 40.28 | 23. | 98 | 30. | 00 | 23. | 98 | |
| VHT80 | MCS0 | 2 | 58 | 5290 | 75.76 | 75.88 | 83.44 | 83.28 | 23. | 98 | 30. | 00 | 23. | 98 | |

TEST RESULTS DATA Average Power Table CDD Modes

| | | | | | | | | FCC Ba | nd II | | | | | | |
|-------|--------------|-----|-----|----------------|-------|-------------------|-------|---------------------------------------|-------|--------------|-------------------------------|----------|------|---------------------------------|-----------|
| Mod. | Data Rate | N⊤x | CH. | Freq. (MHz) | | uty etor B) | | Average conducte Power (dBm) | | Cond Powe | CC ucted r Limit Bm) | D (dl | | EIRP Power Limit (dBm) | Pass/Fail |
| | | | | | Ant 1 | Ant 2 | | | Ant 1 | Ant 2 | Ant 1 | Ant 2 | (42) | | |
| 11a | 6Mbps | 1 | 52 | 5260 | 0.12 | | 20.40 | | | 23.98 | | 2.13 | 1.89 | 30 | Pass |
| 11a | 6Mbps | 1 | 60 | 5300 | 0.12 | | 18.37 | | | 23.98 | | 2.13 | 1.89 | 30 | Pass |
| 11a | 6Mbps | 1 | 64 | 5320 | 0.12 | | 17.44 | | | 23.98 | | 2.13 | 1.89 | 30 | Pass |
| HT20 | MCS0 | 1 | 52 | 5260 | 0.05 | | 20.08 | | | 23.98 | | 2.13 | 1.89 | 30 | Pass |
| HT20 | MCS0 | 1 | 60 | 5300 | 0.05 | | 20.04 | | | 23.98 | | 2.13 | 1.89 | 30 | Pass |
| HT20 | MCS0 | 1 | 64 | 5320 | 0.05 | | 17.50 | | | 23.98 | | 2.13 | 1.89 | 30 | Pass |
| HT40 | MCS0 | 1 | 54 | 5270 | 0.10 | | 19.59 | | | 23.98 | | 2.13 | 1.89 | 30 | Pass |
| HT40 | MCS0 | 1 | 62 | 5310 | 0.10 | | 15.39 | | | 23.98 | | 2.13 | 1.89 | 30 | Pass |
| VHT80 | MCS0 | 1 | 58 | 5290 | 0.24 | | 13.99 | | | 23.98 | | 2.13 | 1.89 | 30 | Pass |
| 11a | 6Mbps | 2 | 52 | 5260 | 0.12 | 0.12 | 17.33 | 17.50 | 20.43 | 23. | 98 | 2.2 | 13 | 30 | Pass |
| 11a | 6Mbps | 2 | 60 | 5300 | 0.12 | 0.12 | 16.44 | 16.47 | 19.47 | 23. | .98 | 2.1 | 13 | 30 | Pass |
| 11a | 6Mbps | 2 | 64 | 5320 | 0.12 | 0.12 | 15.80 | 16.00 | 18.91 | 23. | .98 | 2.1 | 13 | 30 | Pass |
| HT20 | MCS0 | 2 | 52 | 5260 | 0.05 | 0.05 | 18.00 | 18.06 | 21.04 | 23. | .98 | 2.1 | 13 | 30 | Pass |
| HT20 | MCS0 | 2 | 60 | 5300 | 0.05 | 0.05 | 17.93 | 18.17 | 21.06 | 23. | .98 | 2.1 | 13 | 30 | Pass |
| HT20 | MCS0 | 2 | 64 | 5320 | 0.05 | 0.05 | 15.47 | 15.83 | 18.66 | 23. | .98 | 2.1 | 13 | 30 | Pass |
| HT40 | MCS0 | 2 | 54 | 5270 | 0.13 | 0.13 | 17.84 | 18.21 | 21.04 | 23. | .98 | 2.1 | 13 | 30 | Pass |
| HT40 | MCS0 | 2 | 62 | 5310 | 0.13 | 0.13 | 12.92 | 13.24 | 16.09 | 23. | .98 | 2.1 | 13 | 30 | Pass |
| VHT80 | MCS0 | 2 | 58 | 5290 | 0.22 | 0.24 | 11.38 | 11.30 | 14.35 | 23. | .98 | 2.1 | 13 | 30 | Pass |

TEST RESULTS DATA Power Spectral Density CDD Modes

| | | | | | | | | Band | II | | | | | |
|-------|--------------|-----|-----|----------------|-------|-------------------|-------|---------------------------------------|-------|-------|----------------------------|----------|-------|---------------|
| Mod. | Data Rate | N⊤x | CH. | Freq. (MHz) | Fac | uty ctor B) | | Average Power Density IBm/MH | | Lir | rage SD mit /MHz) | D (dl | _ | Pass /Fail |
| | | | | | Ant 1 | Ant 2 | Ant 1 | Ant 2 | SUM | Ant 1 | Ant 2 | Ant 1 | Ant 2 | |
| 11a | 6Mbps | 1 | 52 | 5260 | 0.12 | | 9.12 | | | 11.00 | 11.00 | 2.13 | 1.89 | Pass |
| 11a | 6Mbps | 1 | 60 | 5300 | 0.12 | | 7.27 | | | 11.00 | 11.00 | 2.13 | 1.89 | Pass |
| 11a | 6Mbps | 1 | 64 | 5320 | 0.12 | | 6.26 | | | 11.00 | 11.00 | 2.13 | 1.89 | Pass |
| HT20 | MCS0 | 1 | 52 | 5260 | 0.05 | | 8.65 | | | 11.00 | 11.00 | 2.13 | 1.89 | Pass |
| HT20 | MCS0 | 1 | 60 | 5300 | 0.05 | | 8.55 | | | 11.00 | 11.00 | 2.13 | 1.89 | Pass |
| HT20 | MCS0 | 1 | 64 | 5320 | 0.05 | | 6.18 | | | 11.00 | 11.00 | 2.13 | 1.89 | Pass |
| HT40 | MCS0 | 1 | 54 | 5270 | 0.10 | | 5.29 | | | 11.00 | 11.00 | 2.13 | 1.89 | Pass |
| HT40 | MCS0 | 1 | 62 | 5310 | 0.10 | | 1.21 | | | 11.00 | 11.00 | 2.13 | 1.89 | Pass |
| VHT80 | MCS0 | 1 | 58 | 5290 | 0.24 | | -3.38 | | | 11.00 | 11.00 | 2.13 | 1.89 | Pass |
| 11a | 6Mbps | 2 | 52 | 5260 | 0.12 | 0.12 | | | 9.00 | 11. | .00 | 5.0 |)2 | Pass |
| 11a | 6Mbps | 2 | 60 | 5300 | 0.12 | 0.12 | | | 8.25 | 11. | .00 | 5.0 |)2 | Pass |
| 11a | 6Mbps | 2 | 64 | 5320 | 0.12 | 0.12 | | | 7.59 | 11. | .00 | 5.0 |)2 | Pass |
| HT20 | MCS0 | 2 | 52 | 5260 | 0.05 | 0.05 | | | 9.29 | 11. | .00 | 5.0 |)2 | Pass |
| HT20 | MCS0 | 2 | 60 | 5300 | 0.05 | 0.05 | | | 9.28 | 11. | .00 | 5.0 |)2 | Pass |
| HT20 | MCS0 | 2 | 64 | 5320 | 0.05 | 0.05 | | | 6.97 | 11. | .00 | 5.0 |)2 | Pass |
| HT40 | MCS0 | 2 | 54 | 5270 | 0.13 | 0.13 | | | 6.83 | 11. | .00 | 5.0 |)2 | Pass |
| HT40 | MCS0 | 2 | 62 | 5310 | 0.13 | 0.13 | | | 1.94 | 11. | .00 | 5.0 |)2 | Pass |
| VHT80 | MCS0 | 2 | 58 | 5290 | 0.22 | 0.24 | | | -3.48 | 11. | .00 | 5.0 |)2 | Pass |

TEST RESULTS DATA 26dB and 99% OBW CDD Modes

| | | | | | | | | Band | III | | | | | | |
|-------|--------------|-----|-----|----------------|-------------------|-------|-------|---------------------|-------|--------------------------------|--------------|------------------------------|--------------|----------------------------------|------|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | 99 Band (MI | width | Band | dB lwidth Hz) | Powe | 99% width r Limit Bm) | Band EIRP | 99% width Limit Bm) | Band Powe | 26dB lwidth r Limit Bm) | Note |
| | | | | | Ant 1 | Ant 2 | Ant 1 | Ant 2 | Ant 1 | Ant 2 | Ant 1 | Ant 2 | Ant 1 | Ant 2 | |
| 11a | 6Mbps | 1 | 100 | 5500 | 17.08 | | 20.68 | | 23.33 | | 29.33 | | 23.98 | | |
| 11a | 6Mbps | 1 | 116 | 5580 | 17.08 | | 20.63 | | 23.33 | | 29.33 | | 23.98 | | |
| 11a | 6Mbps | 1 | 140 | 5700 | 17.13 | | 20.58 | | 23.34 | | 29.34 | | 23.98 | | |
| 11a | 6Mbps | 1 | 144 | 5720 | 17.08 | | 20.83 | | 23.33 | | 29.33 | | 23.98 | | |
| HT20 | MCS0 | 1 | 100 | 5500 | 18.13 | | 21.53 | | 23.58 | | 29.58 | | 23.98 | | |
| HT20 | MCS0 | 1 | 116 | 5580 | 18.23 | | 21.48 | | 23.61 | | 29.61 | | 23.98 | | |
| HT20 | MCS0 | 1 | 140 | 5700 | 18.13 | | 21.63 | | 23.58 | | 29.58 | | 23.98 | | |
| HT20 | MCS0 | 1 | 144 | 5720 | 18.13 | | 21.68 | | 23.58 | | 29.58 | | 23.98 | | |
| HT40 | MCS0 | 1 | 102 | 5510 | 30.06 | | 40.46 | | 23.98 | | 30.00 | | 23.98 | | |
| HT40 | MCS0 | 1 | 110 | 5550 | 30.16 | | 40.64 | | 23.98 | | 30.00 | | 23.98 | | |
| HT40 | MCS0 | 1 | 134 | 5670 | 35.96 | | 40.64 | | 23.98 | | 30.00 | | 23.98 | | |
| HT40 | MCS0 | 1 | 142 | 5710 | 35.96 | | 40.37 | | 23.98 | | 30.00 | | 23.98 | | |
| VHT80 | MCS0 | 1 | 106 | 5530 | 76.00 | | 83.28 | | 23.98 | | 30.00 | | 23.98 | | |
| VHT80 | MCS0 | 1 | 122 | 5610 | 75.88 | | 83.76 | | 23.98 | | 30.00 | | 23.98 | | |
| VHT80 | MCS0 | 1 | 138 | 5690 | 75.76 | | 83.60 | | 23.98 | | 30.00 | | 23.98 | | |
| 11a | 6Mbps | 2 | 100 | 5500 | 17.08 | 17.03 | 20.58 | 20.38 | 23. | 31 | 29. | 31 | 23. | .98 | |
| 11a | 6Mbps | 2 | 116 | 5580 | 17.23 | 17.08 | 20.73 | 20.63 | 23. | 33 | 29. | .33 | 23. | .98 | |
| 11a | 6Mbps | 2 | 140 | 5700 | 16.88 | 17.03 | 20.63 | 20.48 | 23. | 27 | 29. | 27 | 23. | .98 | |
| 11a | 6Mbps | 2 | 144 | 5720 | 17.28 | 17.03 | 20.63 | 20.48 | 23. | 31 | 29. | .31 | 23. | .98 | |
| HT20 | MCS0 | 2 | 100 | 5500 | 18.23 | 18.23 | 21.38 | 21.53 | 23. | 61 | 29. | 61 | 23. | .98 | |
| HT20 | MCS0 | 2 | 116 | 5580 | 18.08 | 18.23 | 21.43 | 21.53 | 23. | 57 | 29. | 57 | 23. | .98 | |
| HT20 | MCS0 | 2 | 140 | 5700 | 18.43 | 18.13 | 21.63 | 21.53 | 23. | 58 | 29. | 58 | 23. | .98 | |
| HT20 | MCS0 | 2 | 144 | 5720 | 18.43 | 18.18 | 21.93 | 21.23 | 23. | 60 | 29. | 60 | 23. | .98 | |
| HT40 | MCS0 | 2 | 102 | 5510 | 36.16 | 35.96 | 40.82 | 40.19 | 23. | 98 | 30. | .00 | 23. | .98 | |
| HT40 | MCS0 | 2 | 110 | 5550 | 35.96 | 35.96 | 40.46 | 40.28 | 23. | 98 | 30. | .00 | 23. | .98 | |
| HT40 | MCS0 | 2 | 134 | 5670 | 35.96 | 36.06 | 40.28 | 40.19 | 23. | 98 | 30. | .00 | 23. | .98 | |
| HT40 | MCS0 | 2 | 142 | 5710 | 35.86 | 36.36 | 39.92 | 40.64 | 23. | 98 | 30. | .00 | 23. | .98 | |
| VHT80 | MCS0 | 2 | 106 | 5530 | 75.88 | 75.88 | 83.60 | 82.64 | 23. | 98 | 30. | .00 | 23. | .98 | |
| VHT80 | | 2 | 122 | 5610 | 75.88 | 75.76 | 83.28 | 83.28 | 23. | 98 | 30. | | 23. | | |
| VHT80 | MCS0 | 2 | 138 | 5690 | 76.00 | 75.64 | 83.92 | 83.28 | 23. | 98 | 30. | .00 | 23. | .98 | |

TEST RESULTS DATA Average Power Table CDD Modes

| | | | | | | | | FCC Ba | nd III | | | | | | |
|-------|--------------|-----|-----|----------------|-------|-------------------|-------|---------------------------------------|--------|---------------------------|------------------|----------|-------|---------------------------------|-----------|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Fac | uty ctor B) | | Average Conducte Power (dBm) | | FO Cond Powe (dE | ucted r Limit | D (dl | | EIRP Power Limit (dBm) | Pass/Fail |
| | | | | | Ant 1 | Ant 2 | Ant 1 | Ant 2 | SUM | Ant 1 | Ant 2 | Ant 1 | Ant 2 | ` / | |
| 11a | 6Mbps | 1 | 100 | 5500 | 0.12 | | 14.40 | | | 23.98 | | 1.55 | 1.89 | 30 | Pass |
| 11a | 6Mbps | 1 | 116 | 5580 | 0.12 | | 12.95 | | | 23.98 | | 1.55 | 1.89 | 30 | Pass |
| 11a | 6Mbps | 1 | 140 | 5700 | 0.12 | | 12.34 | | | 23.98 | | 1.55 | 1.89 | 30 | Pass |
| 11a | 6Mbps | 1 | 144 | 5720 | 0.12 | | 12.24 | | | 23.98 | | 1.55 | 1.89 | 30 | Pass |
| HT20 | MCS0 | 1 | 100 | 5500 | 0.05 | | 13.50 | | | 23.98 | | 1.55 | 1.89 | 30 | Pass |
| HT20 | MCS0 | 1 | 116 | 5580 | 0.05 | | 12.63 | | | 23.98 | | 1.55 | 1.89 | 30 | Pass |
| HT20 | MCS0 | 1 | 140 | 5700 | 0.05 | | 13.07 | | | 23.98 | | 1.55 | 1.89 | 30 | Pass |
| HT20 | MCS0 | 1 | 144 | 5720 | 0.05 | | 12.89 | | | 23.98 | | 1.55 | 1.89 | 30 | Pass |
| HT40 | MCS0 | 1 | 102 | 5510 | 0.10 | | 16.27 | | | 23.98 | | 1.55 | 1.89 | 30 | Pass |
| HT40 | MCS0 | 1 | 110 | 5550 | 0.10 | | 15.47 | | | 23.98 | | 1.55 | 1.89 | 30 | Pass |
| HT40 | MCS0 | 1 | 134 | 5670 | 0.10 | | 15.25 | | | 23.98 | | 1.55 | 1.89 | 30 | Pass |
| HT40 | MCS0 | 1 | 142 | 5710 | 0.10 | | 14.93 | | | 23.98 | | 1.55 | 1.89 | 30 | Pass |
| VHT80 | MCS0 | 1 | 106 | 5530 | 0.24 | | 15.32 | | | 23.98 | | 1.55 | 1.89 | 30 | Pass |
| VHT80 | MCS0 | 1 | 122 | 5610 | 0.24 | | 16.39 | | | 23.98 | | 1.55 | 1.89 | 30 | Pass |
| VHT80 | MCS0 | 1 | 138 | 5690 | 0.24 | | 16.89 | | | 23.98 | | 1.55 | 1.89 | 30 | Pass |
| 11a | 6Mbps | 2 | 100 | 5500 | 0.12 | 0.12 | 13.33 | 13.65 | 16.51 | 23. | 98 | 1.8 | 39 | 30 | Pass |
| 11a | 6Mbps | 2 | 116 | 5580 | 0.12 | 0.12 | 11.24 | 10.97 | 14.12 | 23. | 98 | 1.8 | 39 | 30 | Pass |
| 11a | 6Mbps | 2 | 140 | 5700 | 0.12 | 0.12 | 11.40 | 11.00 | 14.22 | 23. | 98 | 1.8 | 39 | 30 | Pass |
| 11a | 6Mbps | 2 | 144 | 5720 | 0.12 | 0.12 | 11.67 | 11.70 | 14.70 | 23. | 98 | 1.8 | 39 | 30 | Pass |
| HT20 | MCS0 | 2 | 100 | 5500 | 0.05 | 0.05 | 13.50 | 14.10 | 16.82 | 23. | 98 | 1.8 | 39 | 30 | Pass |
| HT20 | MCS0 | 2 | 116 | 5580 | 0.05 | 0.05 | 12.73 | 12.34 | 15.55 | 23. | 98 | 1.8 | 39 | 30 | Pass |
| HT20 | MCS0 | 2 | 140 | 5700 | 0.05 | 0.05 | 12.10 | 12.34 | 15.23 | 23. | 98 | 1.8 | 39 | 30 | Pass |
| HT20 | MCS0 | 2 | 144 | 5720 | 0.05 | 0.05 | 12.81 | 13.51 | 16.18 | 23. | 98 | 1.8 | 39 | 30 | Pass |
| HT40 | MCS0 | 2 | 102 | 5510 | 0.13 | 0.13 | 14.78 | 15.38 | 18.10 | 23. | 98 | 1.8 | 39 | 30 | Pass |
| HT40 | MCS0 | 2 | 110 | 5550 | 0.13 | 0.13 | 14.42 | 14.44 | 17.44 | 23. | 98 | 1.8 | 39 | 30 | Pass |
| HT40 | MCS0 | 2 | 134 | 5670 | 0.13 | 0.13 | 14.76 | 14.31 | 17.55 | 23. | 98 | 1.8 | 39 | 30 | Pass |
| HT40 | MCS0 | 2 | 142 | 5710 | 0.13 | 0.13 | 16.64 | 16.28 | 19.47 | 23. | 98 | 1.8 | | 30 | Pass |
| VHT80 | MCS0 | 2 | 106 | 5530 | 0.22 | 0.24 | 11.42 | 11.59 | 14.52 | 23. | 98 | 1.8 | 39 | 30 | Pass |
| VHT80 | | 2 | 122 | 5610 | 0.22 | 0.24 | 16.03 | 15.59 | 18.83 | 23. | 98 | 1.8 | | 30 | Pass |
| VHT80 | MCS0 | 2 | 138 | 5690 | 0.22 | 0.24 | 16.67 | 16.49 | 19.59 | 23. | 98 | 1.8 | | 30 | Pass |

TEST RESULTS DATA Power Spectral Density CDD Modes

| | | | | | | | | Band | III | | | | | |
|-------|--------------|-----|-----|----------------|-------|-------------------|-------|--------------------------------------|-------|-------------|----------------------------|----------|-------|---------------|
| Mod. | Data Rate | N⊤x | CH. | Freq. (MHz) | | uty ctor B) | | Average Power Density Bm/MH | | Lir | rage SD mit /MHz) | D (dl | _ | Pass /Fail |
| | | | | | Ant 1 | Ant 2 | Ant 1 | Ant 2 | SUM | Ant 1 | Ant 2 | Ant 1 | Ant 2 | |
| 11a | 6Mbps | 1 | 100 | 5500 | 0.12 | | 3.34 | | | 11.00 | 11.00 | 1.55 | 1.89 | Pass |
| 11a | 6Mbps | 1 | 116 | 5580 | 0.12 | | 1.65 | | | 11.00 | 11.00 | 1.55 | 1.89 | Pass |
| 11a | 6Mbps | 1 | 140 | 5700 | 0.12 | | 1.13 | | | 11.00 | 11.00 | 1.55 | 1.89 | Pass |
| 11a | 6Mbps | 1 | 144 | 5720 | 0.12 | | 0.91 | | | 11.00 | 11.00 | 1.55 | 1.89 | Pass |
| HT20 | MCS0 | 1 | 100 | 5500 | 0.05 | | 2.14 | | | 11.00 | 11.00 | 1.55 | 1.89 | Pass |
| HT20 | MCS0 | 1 | 116 | 5580 | 0.05 | | 1.10 | | | 11.00 | 11.00 | 1.55 | 1.89 | Pass |
| HT20 | MCS0 | 1 | 140 | 5700 | 0.05 | | 1.44 | | | 11.00 11.00 | | 1.55 | 1.89 | Pass |
| HT20 | MCS0 | 1 | 144 | 5720 | 0.05 | | 1.38 | | | 11.00 11.00 | | 1.55 | 1.89 | Pass |
| HT40 | MCS0 | 1 | 102 | 5510 | 0.10 | | 2.06 | | | 11.00 | 11.00 | 1.55 | 1.89 | Pass |
| HT40 | MCS0 | 1 | 110 | 5550 | 0.10 | | 1.53 | | | 11.00 | 11.00 | 1.55 | 1.89 | Pass |
| HT40 | MCS0 | 1 | 134 | 5670 | 0.10 | | 1.13 | | | 11.00 | 11.00 | 1.55 | 1.89 | Pass |
| HT40 | MCS0 | 1 | 142 | 5710 | 0.10 | | 0.91 | | | 11.00 | 11.00 | 1.55 | 1.89 | Pass |
| VHT80 | MCS0 | 1 | 106 | 5530 | 0.24 | | -2.38 | | | 11.00 | 11.00 | 1.55 | 1.89 | Pass |
| VHT80 | MCS0 | 1 | 122 | 5610 | 0.24 | | -0.93 | | | 11.00 | 11.00 | 1.55 | 1.89 | Pass |
| VHT80 | MCS0 | 1 | 138 | 5690 | 0.24 | | -0.95 | | | 11.00 | 11.00 | 1.55 | 1.89 | Pass |
| 11a | 6Mbps | 2 | 100 | 5500 | 0.12 | 0.12 | | | 5.17 | 11. | .00 | 4.7 | 73 | Pass |
| 11a | 6Mbps | 2 | 116 | 5580 | 0.12 | 0.12 | | | 3.33 | 11. | .00 | 4.7 | 73 | Pass |
| 11a | 6Mbps | 2 | 140 | 5700 | 0.12 | 0.12 | | | 3.43 | 11. | .00 | 4.7 | 73 | Pass |
| 11a | 6Mbps | 2 | 144 | 5720 | 0.12 | 0.12 | | | 3.96 | 11. | .00 | 4.7 | 73 | Pass |
| HT20 | MCS0 | 2 | 100 | 5500 | 0.05 | 0.05 | | | 5.05 | 11. | .00 | 4.7 | 73 | Pass |
| HT20 | MCS0 | 2 | 116 | 5580 | 0.05 | 0.05 | | | 3.78 | 11. | .00 | 4.7 | 73 | Pass |
| HT20 | MCS0 | 2 | 140 | 5700 | 0.05 | 0.05 | | | 3.56 | 11. | .00 | 4.7 | | Pass |
| HT20 | MCS0 | 2 | 144 | 5720 | 0.05 | 0.05 | | | 4.50 | 11. | .00 | 4.7 | 73 | Pass |
| HT40 | MCS0 | 2 | 102 | 5510 | 0.13 | 0.13 | _ | | 3.98 | 11. | .00 | 4.7 | 73 | Pass |
| HT40 | MCS0 | 2 | 110 | 5550 | 0.13 | 0.13 | | | 3.51 | 11. | .00 | 4.7 | 73 | Pass |
| HT40 | MCS0 | 2 | 134 | 5670 | 0.13 | 0.13 | | | 3.91 | 11. | .00 | 4.7 | 73 | Pass |
| HT40 | MCS0 | 2 | 142 | 5710 | 0.13 | 0.13 | | | 5.75 | 11. | .00 | 4.7 | 73 | Pass |
| VHT80 | MCS0 | 2 | 106 | 5530 | 0.22 | 0.24 | _ | | -3.23 | 11. | .00 | 4.7 | 73 | Pass |
| VHT80 | MCS0 | 2 | 122 | 5610 | 0.22 | 0.24 | | | 1.71 | 11. | .00 | 4.7 | 73 | Pass |
| VHT80 | MCS0 | 2 | 138 | 5690 | 0.22 | 0.24 | | | 2.52 | 11. | .00 | 4.7 | 73 | Pass |

TEST RESULTS DATA 26dB and 99% OBW Beamforming Modes

| | | | | | | | | Band | II | | | | | | |
|-------|--------------|-----|-----|----------------|-------|------------------------|-------|---------------------|-------|-------|--------------|------------------------------|--------------|---------------------------------|------|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Band | 9% width Hz) | Band | dB lwidth Hz) | | | Band EIRP | 99% width Limit Bm) | Band Powe | 26dB width r Limit Bm) | Note |
| | | | | | Ant 1 | 1 Ant 2 Ant 1 Ant 2 Ar | | Ant 1 | Ant 2 | Ant 1 | Ant 2 | Ant 1 | Ant 2 | | |
| 11a | 6Mbps | 2 | 52 | 5260 | 17.13 | 17.08 | 20.63 | 20.48 | 23. | 33 | 29. | 33 | 23. | 98 | |
| 11a | 6Mbps | 2 | 60 | 5300 | 17.13 | 17.03 | 20.68 | 20.33 | 23. | 31 | 29. | 31 | 23. | .98 | |
| 11a | 6Mbps | 2 | 64 | 5320 | 17.13 | 16.98 | 20.68 | 20.38 | 23. | 30 | 29. | 30 | 23. | .98 | |
| HT20 | MCS0 | 2 | 52 | 5260 | 18.13 | 18.18 | 21.68 | 21.63 | 23. | 58 | 29. | 58 | 23. | .98 | |
| HT20 | MCS0 | 2 | 60 | 5300 | 18.13 | 18.18 | 21.53 | 21.33 | 23. | 58 | 29. | 58 | 23. | .98 | |
| HT20 | MCS0 | 2 | 64 | 5320 | 18.23 | 18.13 | 21.83 | 21.33 | 23. | 58 | 29. | 58 | 23. | .98 | |
| HT40 | MCS0 | 2 | 54 | 5270 | 36.16 | 36.16 | 39.65 | 39.65 | 23. | 98 | 30. | .00 | 23. | .98 | |
| HT40 | MCS0 | 2 | 62 | 5310 | 36.16 | 36.16 | 39.29 | 39.83 | 23. | 98 | 30. | .00 | 23. | .98 | |
| VHT80 | MCS0 | 2 | 58 | 5290 | 75.76 | 75.88 | 79.76 | 80.08 | 23. | 98 | 30. | .00 | 23. | .98 | |

TEST RESULTS DATA Average Power Table Beamforming Modes

| | | | | | | | FCC Ba | nd II | | | | | |
|-------|--------------|-----|-----|-----------------------------|---|---------------------------------------|--------|-------|------------------|-----|----------|---------------------------------|-----------|
| Mod. | Data Rate | N⊤x | CH. | Freq. (MHz) | | Average conducte Power (dBm) | | Power | ucted r Limit | | G Bi) | EIRP Power Limit (dBm) | Pass/Fail |
| | | | | Ant 1 Ant 2 SUM Ant 1 Ant 2 | | | | | | | Ant 2 | (GBIII) | |
| 11a | 6Mbps | 2 | 52 | 5260 | 17.48 | 17.05 | 20.28 | 23. | 98 | 5.0 |)2 | 30 | Pass |
| 11a | 6Mbps | 2 | 60 | 5300 | 15.45 | 14.97 | 18.23 | 23. | 98 | 5.0 |)2 | 30 | Pass |
| 11a | 6Mbps | 2 | 64 | 5320 | 14.72 | 14.01 | 17.39 | 23. | 98 | 5.0 |)2 | 30 | Pass |
| HT20 | MCS0 | 2 | 52 | 5260 | 17.46 | 16.82 | 20.16 | 23. | 98 | 5.0 |)2 | 30 | Pass |
| HT20 | MCS0 | 2 | 60 | 5300 | 17.57 | 16.96 | 20.29 | 23. | 98 | 5.0 |)2 | 30 | Pass |
| HT20 | MCS0 | 2 | 64 | 5320 | 17.63 | 16.93 | 20.30 | 23. | 98 | 5.0 |)2 | 30 | Pass |
| HT40 | MCS0 | 2 | 54 | 5270 | 17.63 16.93 20. 17.32 16.65 20. | | | 23. | 98 | 5.0 |)2 | 30 | Pass |
| HT40 | MCS0 | 2 | 62 | 5310 | 16.31 | 15.74 | 19.04 | 23. | 98 | 5.0 |)2 | 30 | Pass |
| VHT80 | MCS0 | 2 | 58 | 5290 | 17.88 | 17.22 | 20.57 | 23. | 98 | 5.0 |)2 | 30 | Pass |

TEST RESULTS DATA Power Spectral Density Beamforming Modes

| | | | | | | | Band | II | | | | | |
|-------|--------------|-----|-----|----------------|-------|---------------------------------------|-------|-----------|----------------------------|----------|----------|---|---------------|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | | Average Power Density IBm/MH | | PS Lii | rage SD mit /MHz) | D (dl | G Bi) | | Pass /Fail |
| | | | | | Ant 1 | Ant 2 | SUM | Ant 1 | Ant 2 | Ant 1 | Ant 2 | | |
| 11a | 6Mbps | 2 | 52 | 5260 | | - | 5.70 | 11. | 00 | 5.0 |)2 | | Pass |
| 11a | 6Mbps | 2 | 60 | 5300 | | | 3.54 | 11. | .00 | 5.0 |)2 | | Pass |
| 11a | 6Mbps | 2 | 64 | 5320 | | | 2.75 | 11. | .00 | 5.0 |)2 | | Pass |
| HT20 | MCS0 | 2 | 52 | 5260 | | | 5.45 | 11. | .00 | 5.0 |)2 | | Pass |
| HT20 | MCS0 | 2 | 60 | 5300 | | | 4.97 | 11. | .00 | 5.0 |)2 | | Pass |
| HT20 | MCS0 | 2 | 64 | 5320 | | | 5.51 | 11. | .00 | 5.0 |)2 | • | Pass |
| HT40 | MCS0 | 2 | 54 | 5270 | | | -1.43 | 11. | .00 | 5.0 |)2 | | Pass |
| HT40 | MCS0 | 2 | 62 | 5310 | | | -3.08 | 11. | .00 | 5.0 |)2 | | Pass |
| VHT80 | MCS0 | 2 | 58 | 5290 | | | -8.05 | 11. | .00 | 5.0 |)2 | * | Pass |

TEST RESULTS DATA 26dB and 99% OBW Beamforming Modes

| | | | | | | | | Band | III | | | | | | |
|-------|--------------|-----|-----|----------------|-------|---------------------|-------|--------------------|--------------|---------------------------------|-----------------------------|----------------|--------------|---------------------------------|------|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Band | 9% lwidth Hz) | Band | dB width Hz) | Band Powe | 99% lwidth r Limit Bm) | IC 9 Band EIRP (dB | width Limit | Band Powe | 26dB width r Limit Bm) | Note |
| | | | | | Ant 1 | Ant 2 | Ant 1 | Ant 2 | | | Ant 1 | Ant 2 | Ant 1 | Ant 2 | |
| 11a | 6Mbps | 2 | 100 | 5500 | 17.08 | 17.08 | 20.58 | 20.43 | 23. | 33 | 29. | 33 | 23. | 98 | |
| 11a | 6Mbps | 2 | 116 | 5580 | 17.03 | 17.08 | 20.73 | 20.33 | 23. | .31 | 29. | 31 | 23. | 98 | |
| 11a | 6Mbps | 2 | 140 | 5700 | 16.88 | 17.13 | 20.53 | 20.73 | 23. | .27 | 29. | 27 | 23. | 98 | |
| 11a | 6Mbps | 2 | 144 | 5720 | 16.73 | 17.03 | 20.28 | 20.53 | 23. | .24 | 29. | 24 | 23. | 98 | |
| HT20 | MCS0 | 2 | 100 | 5500 | 18.23 | 18.08 | 21.63 | 21.28 | 23. | .57 | 29. | 57 | 23. | 98 | |
| HT20 | MCS0 | 2 | 116 | 5580 | 18.18 | 18.18 | 21.53 | 21.53 | 23. | .60 | 29. | 60 | 23. | 98 | |
| HT20 | MCS0 | 2 | 140 | 5700 | 18.43 | 18.18 | 21.78 | 21.38 | 23. | .60 | 29. | 60 | 23. | 98 | |
| HT20 | MCS0 | 2 | 144 | 5720 | 18.43 | 18.13 | 21.63 | 21.73 | 23. | .58 | 29. | 58 | 23. | 98 | |
| HT40 | MCS0 | 2 | 102 | 5510 | 36.06 | 36.16 | 39.38 | 39.83 | 23. | .98 | 30. | 00 | 23. | 98 | |
| HT40 | MCS0 | 2 | 110 | 5550 | 36.26 | 36.16 | 39.92 | 39.74 | 23. | .98 | 30. | 00 | 23. | 98 | |
| HT40 | MCS0 | 2 | 134 | 5670 | 36.06 | 36.16 | 39.83 | 40.28 | 23. | .98 | 30. | 00 | 23. | 98 | |
| HT40 | MCS0 | 2 | 142 | 5710 | 35.96 | 36.26 | 39.47 | 40.19 | 23. | .98 | 30. | 00 | 23. | 98 | |
| VHT80 | | 2 | 106 | 5530 | 75.76 | 75.16 | 79.60 | 80.08 | 23. | | 30. | | 23. | | |
| VHT80 | | 2 | 122 | 5610 | 76.00 | 75.88 | 80.24 | 80.08 | 23. | | 30. | | 23. | | |
| VHT80 | MCS0 | 2 | 138 | 5690 | 75.76 | 75.64 | 82.16 | 79.44 | 23. | .98 | 30. | 00 | 23. | 98 | |

TEST RESULTS DATA Average Power Table Beamforming Modes

| | | | | | | - | FCC Ba | nd III | | | | | |
|-------|--------------|-----|-----|----------------|-------|--------------------------------------|--------|--------------|-------------------------------|----------|----------|---------------------------------|-----------|
| Mod. | Data Rate | N⊤x | CH. | Freq. (MHz) | | Average onducte Power (dBm) | | Cond Powe | CC ucted r Limit Bm) | D (dl | G Bi) | EIRP Power Limit (dBm) | Pass/Fail |
| | | | | | Ant 1 | Ant 2 | SUM | Ant 1 | Ant 2 | Ant 1 | Ant 2 | (dBIII) | |
| 11a | 6Mbps | 2 | 100 | 5500 | 14.65 | 11.59 | 16.39 | 23. | 98 | 4.7 | 73 | 30 | Pass |
| 11a | 6Mbps | 2 | 116 | 5580 | 15.45 | 11.12 | 16.81 | 23. | 98 | 4.7 | 73 | 30 | Pass |
| 11a | 6Mbps | 2 | 140 | 5700 | 12.54 | 9.39 | 14.25 | 23. | .98 | 4.7 | 73 | 30 | Pass |
| 11a | 6Mbps | 2 | 144 | 5720 | 16.28 | 14.58 | 18.52 | 23. | .98 | 4.7 | 73 | 30 | Pass |
| HT20 | MCS0 | 2 | 100 | 5500 | 16.05 | 12.37 | 17.60 | 23. | 98 | 4.7 | 73 | 30 | Pass |
| HT20 | MCS0 | 2 | 116 | 5580 | 15.68 | 11.24 | 17.01 | 23. | 98 | 4.7 | 73 | 30 | Pass |
| HT20 | MCS0 | 2 | 140 | 5700 | 13.12 | 10.42 | 14.99 | 23. | 98 | 4.7 | 73 | 30 | Pass |
| HT20 | MCS0 | 2 | 144 | 5720 | 16.38 | 14.70 | 18.63 | 23. | 98 | 4.7 | 73 | 30 | Pass |
| HT40 | MCS0 | 2 | 102 | 5510 | 17.38 | 13.99 | 19.02 | 23. | 98 | 4.7 | 73 | 30 | Pass |
| HT40 | MCS0 | 2 | 110 | 5550 | 16.43 | 12.68 | 17.96 | 23. | 98 | 4.7 | 73 | 30 | Pass |
| HT40 | MCS0 | 2 | 134 | 5670 | 14.99 | 12.33 | 16.87 | 23. | 98 | 4.7 | 73 | 30 | Pass |
| HT40 | MCS0 | 2 | 142 | 5710 | 16.32 | 14.34 | 18.45 | 23. | .98 | 4.7 | 73 | 30 | Pass |
| VHT80 | MCS0 | 2 | 106 | 5530 | 18.08 | 16.35 | 20.31 | 23. | .98 | 4.7 | 73 | 30 | Pass |
| VHT80 | MCS0 | 2 | 122 | 5610 | 18.44 | 15.12 | 20.10 | 23. | 98 | 4.7 | 73 | 30 | Pass |
| VHT80 | MCS0 | 2 | 138 | 5690 | 17.52 | 14.58 | 19.30 | 23. | 98 | 4.7 | 73 | 30 | Pass |

TEST RESULTS DATA Power Spectral Density Beamforming Modes

| | | | | | | | Band | III | | | | |
|-------|--------------|-----|-----|----------------|-------|--|--------|-----------|----------------------------|----------|-------|---------------|
| Mod. | Data Rate | N⊤x | CH. | Freq. (MHz) | | Average Power Density IBm/MH: | | PS Lir | rage SD mit /MHz) | D (dl | | Pass /Fail |
| | | | | | Ant 1 | Ant 2 | SUM | Ant 1 | Ant 2 | Ant 1 | Ant 2 | |
| 11a | 6Mbps | 2 | 100 | 5500 | | | 1.73 | 11. | .00 | 4.7 | 73 | Pass |
| 11a | 6Mbps | 2 | 116 | 5580 | | | 2.98 | 11. | .00 | 4.7 | 73 | Pass |
| 11a | 6Mbps | 2 | 140 | 5700 | | | 1.64 | 11. | .00 | 4.7 | 73 | Pass |
| 11a | 6Mbps | 2 | 144 | 5720 | | | 4.00 | 11. | .00 | 4.7 | 73 | Pass |
| HT20 | MCS0 | 2 | 100 | 5500 | | | 2.86 | 11. | .00 | 4.7 | 73 | Pass |
| HT20 | MCS0 | 2 | 116 | 5580 | | | 2.01 | 11. | .00 | 4.7 | 73 | Pass |
| HT20 | MCS0 | 2 | 140 | 5700 | | | 0.37 | 11. | .00 | 4.7 | 73 | Pass |
| HT20 | MCS0 | 2 | 144 | 5720 | | | 2.89 | 11. | .00 | 4.7 | 73 | Pass |
| HT40 | MCS0 | 2 | 102 | 5510 | | | -2.00 | 11. | .00 | 4.7 | 73 | Pass |
| HT40 | MCS0 | 2 | 110 | 5550 | | | -2.90 | 11. | .00 | 4.7 | 73 | Pass |
| HT40 | MCS0 | 2 | 134 | 5670 | | | -3.87 | 11. | .00 | 4.7 | 73 | Pass |
| HT40 | MCS0 | 2 | 142 | 5710 | | | -3.02 | 11. | .00 | 4.7 | 73 | Pass |
| VHT80 | MCS0 | 2 | 106 | 5530 | | | -6.73 | 11. | .00 | 4.7 | 73 | Pass |
| VHT80 | MCS0 | 2 | 122 | 5610 | | | -8.35 | 11. | .00 | 4.7 | 73 | Pass |
| VHT80 | MCS0 | 2 | 138 | 5690 | | | -10.73 | 11. | .00 | 4.7 | 73 | Pass |

Appendix B. AC Conducted Emission Test Results

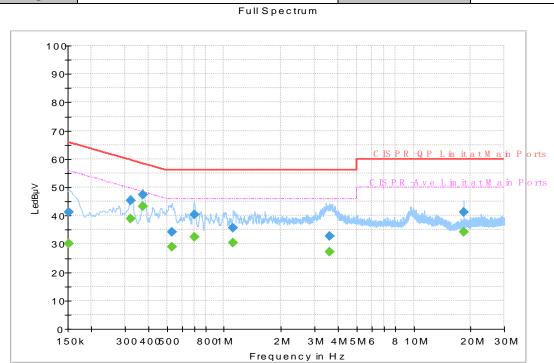
Test Engineer : Kai-Chun Chu

Kai-Chun Chu

Relative Humidity : 52~54%

Test Voltage : 120Vac / 60Hz

Phase : Line



Final Result

| Frequency | Quasi-Peak | CAverage | Limit | Margin | | | Corr. |
|-----------|------------|----------|--------|--------|------|--------|-------|
| (MHz) | (dBµV) | (dBµV) | (dBµV) | (dB) | Line | Filter | (dB) |
| 0.152250 | | 30.24 | 55.88 | 25.64 | L1 | OFF | 19.5 |
| 0.152250 | 41.09 | | 65.88 | 24.79 | L1 | OFF | 19.5 |
| 0.323250 | | 38.88 | 49.62 | 10.74 | L1 | OFF | 19.5 |
| 0.323250 | 45.36 | | 59.62 | 14.26 | L1 | OFF | 19.5 |
| 0.375000 | | 43.20 | 48.39 | 5.19 | L1 | OFF | 19.5 |
| 0.375000 | 47.37 | | 58.39 | 11.02 | L1 | OFF | 19.5 |
| 0.532500 | | 29.04 | 46.00 | 16.96 | L1 | OFF | 19.5 |
| 0.532500 | 34.11 | | 56.00 | 21.89 | L1 | OFF | 19.5 |
| 0.696750 | | 32.50 | 46.00 | 13.50 | L1 | OFF | 19.6 |
| 0.696750 | 40.26 | | 56.00 | 15.74 | L1 | OFF | 19.6 |
| 1.119750 | | 30.35 | 46.00 | 15.65 | L1 | OFF | 19.6 |
| 1.119750 | 35.56 | | 56.00 | 20.44 | L1 | OFF | 19.6 |
| 3.599250 | | 27.16 | 46.00 | 18.84 | L1 | OFF | 19.7 |
| 3.599250 | 32.82 | | 56.00 | 23.18 | L1 | OFF | 19.7 |
| 18.431250 | | 34.28 | 50.00 | 15.72 | L1 | OFF | 20.2 |
| 18.431250 | 41.36 | | 60.00 | 18.64 | L1 | OFF | 20.2 |

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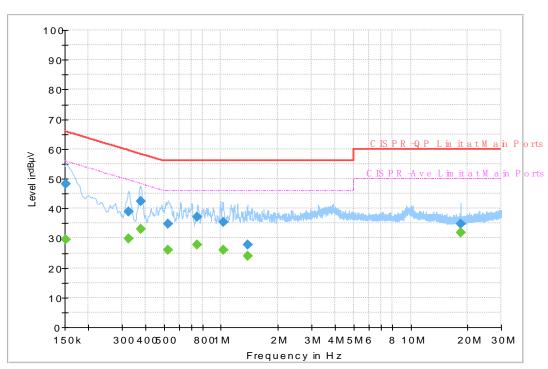


 Test Engineer :
 Kai-Chun Chu
 Temperature :
 25~26°C

 Relative Humidity :
 52~54%

 Test Voltage :
 120Vac / 60Hz
 Phase :
 Neutral





Final Result

| Frequency (MHz) | Quasi-Peak (dBµV) | CAverage (dBµV) | Limit (dBµV) | Margin (dB) | Line | Filter | Corr. (dB) |
|--------------------|----------------------|--------------------|-----------------|----------------|------|--------|---------------|
| 0.152250 | | 29.59 | 55.88 | 26.29 | N | OFF | 19.5 |
| 0.152250 | 48.12 | | 65.88 | 17.76 | N | OFF | 19.5 |
| 0.325500 | | 29.85 | 49.57 | 19.72 | N | OFF | 19.5 |
| 0.325500 | 39.02 | | 59.57 | 20.55 | N | OFF | 19.5 |
| 0.377250 | | 32.90 | 48.34 | 15.44 | N | OFF | 19.5 |
| 0.377250 | 42.54 | | 58.34 | 15.80 | N | OFF | 19.5 |
| 0.528000 | | 26.17 | 46.00 | 19.83 | N | OFF | 19.5 |
| 0.528000 | 34.94 | | 56.00 | 21.06 | N | OFF | 19.5 |
| 0.750750 | | 27.83 | 46.00 | 18.17 | N | OFF | 19.6 |
| 0.750750 | 37.03 | | 56.00 | 18.97 | N | OFF | 19.6 |
| 1.025250 | | 26.14 | 46.00 | 19.86 | N | OFF | 19.6 |
| 1.025250 | 35.24 | | 56.00 | 20.76 | N | OFF | 19.6 |
| 1.378500 | | 23.91 | 46.00 | 22.09 | N | OFF | 19.6 |
| 1.378500 | 27.64 | | 56.00 | 28.36 | N | OFF | 19.6 |
| 18.431250 | | 31.94 | 50.00 | 18.06 | N | OFF | 20.3 |
| 18.431250 | 34.73 | | 60.00 | 25.27 | N | OFF | 20.3 |

Sporton International (Kunshan) Inc.

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Appendix C. Radiated Spurious Emission

For CDD Modes

Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|------------------|------|-----------|------------|--------|----------|--------|----------|--------|--------|--------|-------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| | * | 5316 | 109.94 | - | - | 99.74 | 35.26 | 8.17 | 33.23 | 277 | 84 | Р | Н |
| | | 5316 | 101.98 | - | - | 91.78 | 35.26 | 8.17 | 33.23 | 277 | 84 | Α | Н |
| 000.44 | | 5352.1 | 59.06 | -14.94 | 74 | 48.83 | 35.23 | 8.22 | 33.22 | 277 | 84 | Р | Н |
| 802.11a CH 64 | | 5350 | 50.23 | -3.77 | 54 | 40 | 35.23 | 8.22 | 33.22 | 277 | 84 | Α | Н |
| 5320MHz | * | 5322 | 110.68 | - | - | 100.48 | 35.26 | 8.17 | 33.23 | 107 | 184 | Р | ٧ |
| 3320WI12 | | 5322 | 103.32 | - | - | 93.12 | 35.26 | 8.17 | 33.23 | 107 | 184 | Α | ٧ |
| | | 5350.3 | 61.73 | -12.27 | 74 | 51.5 | 35.23 | 8.22 | 33.22 | 107 | 184 | Р | ٧ |
| | | 5350 | 51.44 | -2.56 | 54 | 41.21 | 35.23 | 8.22 | 33.22 | 107 | 184 | Α | V |
| | | | * | | | | | | | | | | |

Remark

Sporton International (Kunshan) Inc.

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I. No other spurious found.

^{2.} All results are PASS against Peak and Average limit line.

Band 2 5250~5350MHz

WIFI 802.11a (Harmonic @ 3m)

| (MHz) 10520 15780 10520 15780 15780 10600 | (dBµV/m) 67.18 44.33 66.72 50.15 46.77 56.21 | Limit (dB) -1.12 -29.67 -1.58 -23.85 -7.23 -17.79 | Line (dBµV/m) 68.3 74 68.3 74 | Level (dBμV) 82.36 55.32 81.9 61.14 57.76 | Factor (dB/m) 38.58 40.68 38.58 40.68 | Loss (dB) 12.28 14.24 12.28 14.24 | Factor (dB) 66.04 65.91 66.04 65.91 | Pos (cm) 285 100 265 100 | Pos (deg) 3 0 317 | Avg. (P/A) P P | (H/V H H V |
|---|--|---|---|--|--|--|--|--|--|--|--|
| 15780 10520 15780 15780 10600 | 44.33 66.72 50.15 46.77 56.21 | -29.67 -1.58 -23.85 -7.23 | 74 68.3 74 | 55.32 81.9 61.14 | 40.68 38.58 40.68 | 14.24 12.28 14.24 | 65.91 66.04 | 100 265 | 0 317 | P P | H V |
| 10520 15780 15780 10600 | 66.72 50.15 46.77 56.21 | -1.58 -23.85 -7.23 | 68.3 74 | 81.9 61.14 | 38.58 40.68 | 12.28 14.24 | 66.04 | 265 | 317 | Р | V |
| 15780 15780 10600 | 50.15 46.77 56.21 | -23.85 -7.23 | 74 | 61.14 | 40.68 | 14.24 | | | | - | |
| 15780 10600 | 46.77 56.21 | -7.23 | | | | | 65.91 | 100 | 0 | Р | \/ |
| 10600 | 56.21 | | 54 | 57.76 | 40.60 | | | | | | V |
| | | -17.79 | | | 40.00 | 14.24 | 65.91 | 265 | 317 | Α | V |
| 10600 | | | 74 | 71.08 | 38.64 | 12.47 | 65.98 | 279 | 0 | Р | Н |
| | 52.97 | -1.03 | 54 | 67.84 | 38.64 | 12.47 | 65.98 | 279 | 0 | Α | Н |
| 15900 | 44.52 | -29.48 | 74 | 55.87 | 40.58 | 14.33 | 66.26 | 100 | 0 | Р | Н |
| 10600 | 57.43 | -16.57 | 74 | 72.3 | 38.64 | 12.47 | 65.98 | 301 | 77 | Р | V |
| 10600 | 50.85 | -3.15 | 54 | 65.72 | 38.64 | 12.47 | 65.98 | 301 | 77 | Α | V |
| 15900 | 47.95 | -26.05 | 74 | 59.3 | 40.58 | 14.33 | 66.26 | 100 | 0 | Р | V |
| 10640 | 54.76 | -19.24 | 74 | 69.5 | 38.67 | 12.55 | 65.96 | 291 | 0 | Р | Н |
| 10640 | 52.86 | -1.14 | 54 | 67.6 | 38.67 | 12.55 | 65.96 | 291 | 0 | Α | Н |
| 10640 | 57.75 | -16.25 | 74 | 72.49 | 38.67 | 12.55 | 65.96 | 300 | 80 | Р | V |
| 10640 | 52.27 | -1.73 | 54 | 67.01 | 38.67 | 12.55 | 65.96 | 300 | 80 | Α | V |
| | 10600 10600 15900 10640 10640 10640 | 10600 57.43 10600 50.85 15900 47.95 10640 54.76 10640 52.86 10640 57.75 | 10600 57.43 -16.57 10600 50.85 -3.15 15900 47.95 -26.05 10640 54.76 -19.24 10640 52.86 -1.14 10640 57.75 -16.25 10640 52.27 -1.73 | 10600 57.43 -16.57 74 10600 50.85 -3.15 54 15900 47.95 -26.05 74 10640 54.76 -19.24 74 10640 52.86 -1.14 54 10640 57.75 -16.25 74 10640 52.27 -1.73 54 | 10600 57.43 -16.57 74 72.3 10600 50.85 -3.15 54 65.72 15900 47.95 -26.05 74 59.3 10640 54.76 -19.24 74 69.5 10640 52.86 -1.14 54 67.6 10640 57.75 -16.25 74 72.49 10640 52.27 -1.73 54 67.01 | 10600 57.43 -16.57 74 72.3 38.64 10600 50.85 -3.15 54 65.72 38.64 15900 47.95 -26.05 74 59.3 40.58 10640 54.76 -19.24 74 69.5 38.67 10640 52.86 -1.14 54 67.6 38.67 10640 57.75 -16.25 74 72.49 38.67 10640 52.27 -1.73 54 67.01 38.67 | 10600 57.43 -16.57 74 72.3 38.64 12.47 10600 50.85 -3.15 54 65.72 38.64 12.47 15900 47.95 -26.05 74 59.3 40.58 14.33 10640 54.76 -19.24 74 69.5 38.67 12.55 10640 52.86 -1.14 54 67.6 38.67 12.55 10640 57.75 -16.25 74 72.49 38.67 12.55 10640 52.27 -1.73 54 67.01 38.67 12.55 | 10600 57.43 -16.57 74 72.3 38.64 12.47 65.98 10600 50.85 -3.15 54 65.72 38.64 12.47 65.98 15900 47.95 -26.05 74 59.3 40.58 14.33 66.26 10640 54.76 -19.24 74 69.5 38.67 12.55 65.96 10640 52.86 -1.14 54 67.6 38.67 12.55 65.96 10640 57.75 -16.25 74 72.49 38.67 12.55 65.96 10640 52.27 -1.73 54 67.01 38.67 12.55 65.96 | 10600 57.43 -16.57 74 72.3 38.64 12.47 65.98 301 10600 50.85 -3.15 54 65.72 38.64 12.47 65.98 301 15900 47.95 -26.05 74 59.3 40.58 14.33 66.26 100 10640 54.76 -19.24 74 69.5 38.67 12.55 65.96 291 10640 52.86 -1.14 54 67.6 38.67 12.55 65.96 291 10640 57.75 -16.25 74 72.49 38.67 12.55 65.96 300 10640 52.27 -1.73 54 67.01 38.67 12.55 65.96 300 | 10600 57.43 -16.57 74 72.3 38.64 12.47 65.98 301 77 10600 50.85 -3.15 54 65.72 38.64 12.47 65.98 301 77 15900 47.95 -26.05 74 59.3 40.58 14.33 66.26 100 0 10640 54.76 -19.24 74 69.5 38.67 12.55 65.96 291 0 10640 52.86 -1.14 54 67.6 38.67 12.55 65.96 291 0 10640 57.75 -16.25 74 72.49 38.67 12.55 65.96 300 80 10640 52.27 -1.73 54 67.01 38.67 12.55 65.96 300 80 | 10600 57.43 -16.57 74 72.3 38.64 12.47 65.98 301 77 P 10600 50.85 -3.15 54 65.72 38.64 12.47 65.98 301 77 A 15900 47.95 -26.05 74 59.3 40.58 14.33 66.26 100 0 P 10640 54.76 -19.24 74 69.5 38.67 12.55 65.96 291 0 P 10640 52.86 -1.14 54 67.6 38.67 12.55 65.96 291 0 A 10640 57.75 -16.25 74 72.49 38.67 12.55 65.96 300 80 P 10640 52.27 -1.73 54 67.01 38.67 12.55 65.96 300 80 A |

Sporton International (Kunshan) Inc.

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All results are PASS against Peak and Average limit line.

Band 2 5250~5350MHz WIFI 802.11n HT20 (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|---------|------|-----------|------------|--------|------------|--------|----------|--------|--------|------|---------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | | Avg. | |
| 1 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| | * | 5318 | 109.76 | - | - | 99.56 | 35.26 | 8.17 | 33.23 | 306 | 58 | Р | Н |
| | | 5318 | 101.02 | - | - | 90.82 | 35.26 | 8.17 | 33.23 | 306 | 58 | Α | Н |
| 802.11n | | 5350.3 | 62.4 | -11.6 | 74 | 52.17 | 35.23 | 8.22 | 33.22 | 306 | 58 | Р | Н |
| HT20 | | 5350.01 | 50.57 | -3.43 | 54 | 40.34 | 35.23 | 8.22 | 33.22 | 306 | 58 | Α | Н |
| CH 64 | * | 5322 | 111.62 | - | - | 101.42 | 35.26 | 8.17 | 33.23 | 278 | 55 | Р | ٧ |
| 5320MHz | | 5322 | 104.17 | - | - | 93.97 | 35.26 | 8.17 | 33.23 | 278 | 55 | Α | V |
| | | 5350.5 | 62.25 | -11.75 | 74 | 52.02 | 35.23 | 8.22 | 33.22 | 278 | 55 | Р | ٧ |
| | | 5350.01 | 52.37 | -1.63 | 54 | 42.14 | 35.23 | 8.22 | 33.22 | 278 | 55 | Α | ٧ |

Remark

I. No other spurious found.

2. All results are PASS against Peak and Average limit line.

Sporton International (Kunshan) Inc.

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Band 2 5250~5350MHz WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|---------------|------|-----------|------------|-----------------|--------------------|-----------------|-----------------|--------------|-------------|---------------|-------|---------------|------|
| Ant. 1 | | (MHz) | (dBµV/m) | Limit (dB) | Line (dBµV/m) | Level (dBµV) | Factor (dB/m) | Loss (dB) | Factor (dB) | Pos (cm) | | Avg. (P/A) | (H/V |
| 000 44 | | 10520 | 66.34 | -1.96 | 68.3 | 81.52 | 38.58 | 12.28 | 66.04 | 290 | 3 | Р | Н |
| 802.11n | | 15780 | 45.39 | -28.61 | 74 | 56.38 | 40.68 | 14.24 | 65.91 | 100 | 0 | Р | Н |
| HT20 CH 52 | | 10520 | 66.71 | -1.59 | 68.3 | 81.89 | 38.58 | 12.28 | 66.04 | 263 | 319 | Р | V |
| 5260MHz | | 15780 | 52.82 | -21.18 | 74 | 63.81 | 40.68 | 14.24 | 65.91 | 304 | 318 | Р | ٧ |
| 3200W112 | | 15780 | 47.73 | -6.27 | 54 | 58.72 | 40.68 | 14.24 | 65.91 | 304 | 318 | Α | V |
| | | 10600 | 55.76 | -18.24 | 74 | 70.63 | 38.64 | 12.47 | 65.98 | 269 | 5 | Р | Н |
| | | 10600 | 52.7 | -1.3 | 54 | 67.57 | 38.64 | 12.47 | 65.98 | 269 | 5 | Α | Н |
| 802.11n | | 15900 | 46.88 | -27.12 | 74 | 58.23 | 40.58 | 14.33 | 66.26 | 100 | 0 | Р | Н |
| HT20 CH 60 | | 10600 | 56.9 | -17.1 | 74 | 71.77 | 38.64 | 12.47 | 65.98 | 296 | 80 | Р | V |
| 5300MHz | | 10600 | 52.13 | -1.87 | 54 | 67 | 38.64 | 12.47 | 65.98 | 296 | 80 | Α | V |
| 3300WII 12 | | 15900 | 51.13 | -22.87 | 74 | 62.48 | 40.58 | 14.33 | 66.26 | 302 | 319 | Р | V |
| | | 15900 | 48.05 | -5.95 | 54 | 59.4 | 40.58 | 14.33 | 66.26 | 302 | 319 | Α | V |
| 802.11n | | 10640 | 54.79 | -19.21 | 74 | 69.53 | 38.67 | 12.55 | 65.96 | 100 | 360 | Р | Н |
| HT20 | | 10640 | 51.83 | -2.17 | 54 | 66.57 | 38.67 | 12.55 | 65.96 | 299 | 360 | Α | Н |
| CH 64 | | 10640 | 56.64 | -17.36 | 74 | 71.38 | 38.67 | 12.55 | 65.96 | 100 | 360 | Р | V |
| 5320MHz | | 10640 | 51.59 | -2.41 | 54 | 66.33 | 38.67 | 12.55 | 65.96 | 304 | 78 | Α | ٧ |

Remark

Sporton International (Kunshan) Inc.

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^{1.} No other spurious found.

^{2.} All results are PASS against Peak and Average limit line.

Band 2 5250~5350MHz WIFI 802.11n HT40 (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|-----------|------|-----------|------------|---------------|--------------------|-----------------|-----------------|--------------|-------------|---------------|----------------|---------------|------|
| Ant. 1 | | (MHz) | (dBµV/m) | Limit (dB) | Line (dBµV/m) | Level (dBµV) | Factor (dB/m) | Loss (dB) | Factor (dB) | Pos (cm) | Pos (deg) | Avg. (P/A) | (H/V |
| | | 5118.72 | 54.67 | -19.33 | 74 | 44.52 | 35.42 | 7.99 | 33.26 | 264 | 90 | Р | Н |
| | | 5124.8 | 44.17 | -9.83 | 54 | 34.03 | 35.41 | 7.99 | 33.26 | 264 | 90 | Α | Н |
| | * | 5266 | 109.1 | - | - | 98.94 | 35.3 | 8.09 | 33.23 | 264 | 90 | Р | Н |
| | | 5266 | 101.07 | - | - | 90.91 | 35.3 | 8.09 | 33.23 | 264 | 90 | Α | Н |
| 802.11n | | 5350.7 | 60.87 | -13.13 | 74 | 50.64 | 35.23 | 8.22 | 33.22 | 264 | 90 | Р | Н |
| HT40 | | 5350.1 | 49.71 | -4.29 | 54 | 39.48 | 35.23 | 8.22 | 33.22 | 264 | 90 | Α | Н |
| CH 54 | | 5135.84 | 54.82 | -19.18 | 74 | 44.68 | 35.41 | 7.99 | 33.26 | 288 | 53 | Р | V |
| 5270MHz | | 5101.92 | 44.69 | -9.31 | 54 | 34.53 | 35.43 | 7.99 | 33.26 | 288 | 53 | Α | V |
| | * | 5266 | 110.17 | - | - | 100.01 | 35.3 | 8.09 | 33.23 | 288 | 53 | Р | V |
| | | 5266 | 105.40 | - | - | 95.24 | 35.3 | 8.09 | 33.23 | 288 | 53 | Α | V |
| | | 5351.4 | 61.91 | -12.09 | 74 | 51.68 | 35.23 | 8.22 | 33.22 | 288 | 53 | Р | V |
| | | 5350 | 51.62 | -2.38 | 54 | 41.39 | 35.23 | 8.22 | 33.22 | 288 | 53 | Α | V |
| | | 5122.56 | 53.76 | -20.24 | 74 | 43.62 | 35.41 | 7.99 | 33.26 | 264 | 90 | Р | Н |
| | | 5143.2 | 43.9 | -10.1 | 54 | 33.77 | 35.39 | 7.99 | 33.25 | 264 | 90 | Α | Н |
| | * | 5310 | 104.16 | - | - | 93.96 | 35.26 | 8.17 | 33.23 | 264 | 90 | Р | Н |
| | | 5310 | 100.41 | - | - | 90.21 | 35.26 | 8.17 | 33.23 | 264 | 90 | Α | Н |
| 802.11n | | 5351 | 60.43 | -13.57 | 74 | 50.2 | 35.23 | 8.22 | 33.22 | 264 | 90 | Р | Н |
| HT40 | | 5350.1 | 51.07 | -2.93 | 54 | 40.84 | 35.23 | 8.22 | 33.22 | 264 | 90 | Α | Н |
| CH 62 | | 5135.36 | 54.31 | -19.69 | 74 | 44.17 | 35.41 | 7.99 | 33.26 | 288 | 53 | Р | V |
| 5310MHz | | 5143.36 | 44.23 | -9.77 | 54 | 34.1 | 35.39 | 7.99 | 33.25 | 288 | 53 | Α | V |
| | * | 5300 | 106.57 | - | - | 96.38 | 35.27 | 8.15 | 33.23 | 288 | 53 | Р | V |
| | | 5300 | 98.57 | - | - | 88.38 | 35.27 | 8.15 | 33.23 | 288 | 53 | Α | V |
| | | 5351.5 | 63.35 | -10.65 | 74 | 53.12 | 35.23 | 8.22 | 33.22 | 288 | 53 | Р | V |
| | | 5350.9 | 52.57 | -1.43 | 54 | 42.34 | 35.23 | 8.22 | 33.22 | 288 | 53 | Α | V |

Remark

1. No other spurious found.

2. All results are PASS against Peak and Average limit line.

Sporton International (Kunshan) Inc.

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Band 2 5250~5350MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI Ant. | Note | Frequency | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | | Peak Avg. | |
|------------------|------|-----------|------------|---------------|---------------|---------------|-------------------|---------------|------------------|------------|-----|--------------|---|
| 1 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | | (P/A) | |
| 802.11n | | 10540 | 63.39 | -4.91 | 68.3 | 78.5 | 38.6 | 12.32 | 66.03 | 278 | 3 | Р | Н |
| HT40 | | 15810 | 44.25 | -29.75 | 74 | 55.35 | 40.65 | 14.26 | 66.01 | 100 | 0 | Р | Н |
| CH 54 | | 10540 | 62.43 | -5.87 | 68.3 | 77.54 | 38.6 | 12.32 | 66.03 | 311 | 78 | Р | ٧ |
| 5270MHz | | 15810 | 49.34 | -24.66 | 74 | 60.44 | 40.65 | 14.26 | 66.01 | 100 | 0 | Р | V |
| | | 10620 | 52.21 | -21.79 | 74 | 67.01 | 38.66 | 12.51 | 65.97 | 286 | 4 | Р | Н |
| | | 10620 | 47.41 | -6.59 | 54 | 62.21 | 38.66 | 12.51 | 65.97 | 286 | 4 | Α | Н |
| 802.11n | | 15930 | 46.67 | -27.33 | 74 | 58.12 | 40.56 | 14.35 | 66.36 | 100 | 0 | Р | Н |
| HT40 | | 10620 | 55.16 | -18.84 | 74 | 69.96 | 38.66 | 12.51 | 65.97 | 292 | 79 | Р | V |
| CH 62 5310MHz | | 10620 | 47.34 | -6.66 | 54 | 62.14 | 38.66 | 12.51 | 65.97 | 292 | 79 | Α | V |
| 33 10WII IZ | | 15930 | 50.28 | -23.72 | 74 | 61.73 | 40.56 | 14.35 | 66.36 | 302 | 319 | Р | V |
| | | 15930 | 45.96 | -8.04 | 54 | 57.41 | 40.56 | 14.35 | 66.36 | 302 | 319 | Α | V |

Remark

Sporton International (Kunshan) Inc.

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No other spurious found.

^{2.} All results are PASS against Peak and Average limit line.

Band 2 5250~5350MHz WIFI 802.11ac VHT80 (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|-----------|------|-----------|------------|---------------|--------------------|-----------------|-----------------|--------------|-------------|---------------|----------------|------|-------|
| Ant. 1 | | (MHz) | (dBµV/m) | Limit (dB) | Line (dBµV/m) | Level (dBµV) | Factor (dB/m) | Loss (dB) | Factor (dB) | Pos (cm) | Pos (deg) | Avg. | (H/V) |
| • | | 5136.48 | 54.08 | -19.92 | 74 | 43.94 | 35.41 | 7.99 | 33.26 | 306 | 91 | P | H |
| | | 5143.2 | 44.77 | -9.23 | 54 | 34.64 | 35.39 | 7.99 | 33.25 | 306 | 91 | Α | Н |
| | * | 5282 | 98.59 | - | - | 88.42 | 35.28 | 8.12 | 33.23 | 306 | 91 | Р | Н |
| | | 5282 | 90.64 | - | - | 80.47 | 35.28 | 8.12 | 33.23 | 306 | 91 | Α | Н |
| 802.11ac | | 5352.1 | 61.96 | -12.04 | 74 | 51.73 | 35.23 | 8.22 | 33.22 | 306 | 91 | Р | Н |
| VHT80 | | 5350.3 | 48.36 | -5.64 | 54 | 38.13 | 35.23 | 8.22 | 33.22 | 306 | 91 | Α | Н |
| CH 58 | | 5137.44 | 54.88 | -19.12 | 74 | 44.74 | 35.41 | 7.99 | 33.26 | 311 | 55 | Р | V |
| 5290MHz | | 5130.24 | 45.32 | -8.68 | 54 | 35.18 | 35.41 | 7.99 | 33.26 | 311 | 55 | Α | ٧ |
| | * | 5290 | 102.63 | - | - | 92.46 | 35.28 | 8.12 | 33.23 | 311 | 55 | Р | ٧ |
| | | 5290 | 97.49 | - | - | 87.32 | 35.28 | 8.12 | 33.23 | 311 | 55 | Α | ٧ |
| | | 5354.6 | 62.55 | -11.45 | 74 | 52.32 | 35.23 | 8.22 | 33.22 | 311 | 55 | Р | V |
| | | 5350.3 | 51.26 | -2.74 | 54 | 41.03 | 35.23 | 8.22 | 33.22 | 311 | 55 | Α | V |

Remark

Sporton International (Kunshan) Inc.

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^{1.} No other spurious found.

^{2.} All results are PASS against Peak and Average limit line.

Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|----------|------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|-------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| 802.11ac | | 10580 | 61.56 | -6.74 | 68.3 | 76.5 | 38.63 | 12.43 | 66 | 294 | 3 | Р | Н |
| VHT80 | | 15870 | 43.59 | -30.41 | 74 | 54.88 | 40.6 | 14.32 | 66.21 | 100 | 0 | Р | Н |
| CH 58 | | 10580 | 60.82 | -7.48 | 68.3 | 75.76 | 38.63 | 12.43 | 66 | 298 | 82 | Р | ٧ |
| 5290MHz | | 15870 | 48.45 | -25.55 | 74 | 59.74 | 40.6 | 14.32 | 66.21 | 100 | 0 | Р | V |

Remark

1. No other spurious found.

2. All results are PASS against Peak and Average limit line.

Sporton International (Kunshan) Inc.

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Band 3 - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|-------------------|------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|---------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| | | 5458.16 | 53.69 | -20.31 | 74 | 43.37 | 35.15 | 8.37 | 33.2 | 318 | 61 | Р | Н |
| | | 5462.16 | 53.51 | -14.79 | 68.3 | 43.19 | 35.15 | 8.37 | 33.2 | 318 | 61 | Р | Н |
| | | 5457.2 | 44.85 | -9.15 | 54 | 34.53 | 35.15 | 8.37 | 33.2 | 318 | 61 | Α | Н |
| | * | 5496 | 102.24 | - | - | 91.91 | 35.12 | 8.41 | 33.2 | 318 | 61 | Р | Н |
| 802.11a | | 5496 | 94.08 | - | - | 83.75 | 35.12 | 8.41 | 33.2 | 318 | 61 | Α | Н |
| CH 100 5500MHz | | 5457.52 | 56.67 | -17.33 | 74 | 46.35 | 35.15 | 8.37 | 33.2 | 112 | 208 | Р | V |
| JJUUMHZ | | 5464.72 | 56.5 | -11.8 | 68.3 | 46.17 | 35.14 | 8.39 | 33.2 | 112 | 208 | Р | V |
| | | 5458.16 | 47.64 | -6.36 | 54 | 37.32 | 35.15 | 8.37 | 33.2 | 112 | 208 | Α | V |
| | * | 5504 | 106.22 | - | - | 95.88 | 35.11 | 8.43 | 33.2 | 112 | 208 | Р | V |
| | | 5504 | 98.24 | - | - | 87.9 | 35.11 | 8.43 | 33.2 | 112 | 208 | Α | V |
| | * | 5696 | 98.66 | - | - | 88.31 | 34.95 | 8.57 | 33.17 | 363 | 72 | Р | Н |
| | | 5696 | 90.12 | - | - | 79.77 | 34.95 | 8.57 | 33.17 | 363 | 72 | Α | Н |
| 802.11a | | 5741.16 | 53.3 | -15 | 68.3 | 42.97 | 34.91 | 8.59 | 33.17 | 363 | 72 | Р | Н |
| CH 140 | * | 5704 | 103.05 | - | - | 92.7 | 34.94 | 8.58 | 33.17 | 284 | 52 | Р | V |
| 5700MHz | | 5704 | 94.85 | - | - | 84.5 | 34.94 | 8.58 | 33.17 | 284 | 52 | Α | V |
| | | 5739.08 | 54.16 | -14.14 | 68.3 | 43.83 | 34.91 | 8.59 | 33.17 | 284 | 52 | Р | V |

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^{1.} No other spurious found.

^{2.} All results are PASS against Peak and Average limit line.

Band 3 - 5470~5725MHz

WIFI 802.11a (Harmonic @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|-----------|------|-----------|------------|---------------|--------------------|-----------------|-----------------|--------------|-------------|---------------|----------------|---------------|------|
| Ant. 1 | | (MHz) | (dBµV/m) | Limit (dB) | Line (dBµV/m) | Level (dBµV) | Factor (dB/m) | Loss (dB) | Factor (dB) | Pos (cm) | Pos (deg) | Avg. (P/A) | |
| | | 11000 | 56.43 | -17.57 | 74 | 69.86 | 38.93 | 13.34 | 65.7 | 100 | 360 | Р | Н |
| 802.11a | | 11000 | 51.9 | -2.1 | 54 | 65.33 | 38.93 | 13.34 | 65.7 | 286 | 360 | Α | Н |
| CH 100 | | 11000 | 56.61 | -17.39 | 74 | 70.04 | 38.93 | 13.34 | 65.7 | 100 | 360 | Р | ٧ |
| 5500MHz | | 11000 | 52.49 | -1.51 | 54 | 65.92 | 38.93 | 13.34 | 65.7 | 262 | 326 | Α | V |
| | | 11160 | 56.79 | -17.21 | 74 | 70.13 | 39.05 | 13.19 | 65.58 | 254 | 0 | Р | Н |
| 802.11a | | 11160 | 51.64 | -2.36 | 54 | 64.98 | 39.05 | 13.19 | 65.58 | 254 | 0 | Α | Н |
| CH 116 | | 11160 | 56.38 | -17.62 | 74 | 69.72 | 39.05 | 13.19 | 65.58 | 290 | 322 | Р | V |
| 5580MHz | | 11160 | 51.76 | -2.24 | 54 | 65.1 | 39.05 | 13.19 | 65.58 | 290 | 322 | Α | V |
| | | 11400 | 52.9 | -21.1 | 74 | 66.09 | 39.23 | 12.99 | 65.41 | 287 | 221 | Р | Н |
| 802.11a | | 11400 | 49.57 | -4.43 | 54 | 62.76 | 39.23 | 12.99 | 65.41 | 287 | 221 | Α | Н |
| CH 140 | | 11400 | 56.75 | -17.25 | 74 | 69.94 | 39.23 | 12.99 | 65.41 | 266 | 327 | Р | V |
| 5700MHz | | 11400 | 52.4 | -1.6 | 54 | 65.59 | 39.23 | 12.99 | 65.41 | 266 | 327 | Α | V |

Sporton International (Kunshan) Inc.

TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: 2AG7G-A2A

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Remark 1. No other spurious found.

^{2.} All results are PASS against Peak and Average limit line.

Band 3 - 5470~5725MHz WIFI 802.11n HT20 (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol |
|-----------|------|-----------|------------|------------|--------------------|-----------------|-----------------|--------------|-------------|---------------|----------------|---------------|------|
| Ant. 1 | | (MHz) | (dBµV/m) | Limit (dB) | Line (dBµV/m) | Level (dBµV) | Factor (dB/m) | Loss (dB) | Factor (dB) | Pos (cm) | Pos (deg) | Avg. (P/A) | (H/V |
| | | 5456.24 | 53.19 | -20.81 | 74 | 42.87 | 35.15 | 8.37 | 33.2 | 319 | 59 | Р | Н |
| | | 5465.04 | 53.24 | -15.06 | 68.3 | 42.91 | 35.14 | 8.39 | 33.2 | 319 | 59 | Р | Н |
| | | 5457.52 | 44.04 | -9.96 | 54 | 33.72 | 35.15 | 8.37 | 33.2 | 319 | 59 | Α | Н |
| 802.11n | * | 5496 | 101.2 | - | - | 90.87 | 35.12 | 8.41 | 33.2 | 319 | 59 | Р | Н |
| HT20 | | 5496 | 92.67 | - | - | 82.34 | 35.12 | 8.41 | 33.2 | 319 | 59 | Α | Н |
| CH 100 | | 5453.52 | 56.22 | -17.78 | 74 | 45.9 | 35.15 | 8.37 | 33.2 | 284 | 54 | Р | V |
| 5500MHz | | 5464.4 | 57.58 | -10.72 | 68.3 | 47.25 | 35.14 | 8.39 | 33.2 | 284 | 54 | Р | V |
| | | 5457.68 | 46.47 | -7.53 | 54 | 36.15 | 35.15 | 8.37 | 33.2 | 284 | 54 | Α | V |
| | * | 5496 | 105.16 | - | - | 94.83 | 35.12 | 8.41 | 33.2 | 284 | 54 | Р | V |
| | | 5496 | 96.66 | - | - | 86.33 | 35.12 | 8.41 | 33.2 | 284 | 54 | Α | V |
| | * | 5704 | 98.99 | - | - | 88.64 | 34.94 | 8.58 | 33.17 | 364 | 76 | Р | Н |
| 802.11n | | 5704 | 90.4 | 1 | - | 80.05 | 34.94 | 8.58 | 33.17 | 364 | 76 | Α | Н |
| HT20 | | 5737.48 | 52.97 | -15.33 | 68.3 | 42.64 | 34.91 | 8.59 | 33.17 | 364 | 76 | Р | Н |
| CH 140 | * | 5704 | 103.11 | - | - | 92.76 | 34.94 | 8.58 | 33.17 | 285 | 55 | Р | V |
| 5700MHz | | 5704 | 94.59 | - | - | 84.24 | 34.94 | 8.58 | 33.17 | 285 | 55 | Α | V |
| | | 5725 | 54.41 | -13.89 | 68.3 | 44.08 | 34.92 | 8.58 | 33.17 | 285 | 55 | Р | ٧ |

TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: 2AG7G-A2A

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Band 3 - 5470~5725MHz WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|-----------|------|-----------|------------|---------------|--------------------|-----------------|-----------------|--------------|---------------|---------------|----------------|---------------|------|
| Ant. 1 | | (MHz) | (dBµV/m) | Limit (dB) | Line (dBµV/m) | Level (dBµV) | Factor (dB/m) | Loss (dB) | Factor (dB) | Pos (cm) | Pos (deg) | Avg. (P/A) | |
| 802.11n | | 11000 | 65.56 | -8.44 | 74 | 78.99 | 38.93 | 13.34 | 65.7 | 283 | 355 | Р | Н |
| HT20 | | 11000 | 52.56 | -1.44 | 54 | 65.99 | 38.93 | 13.34 | 65.7 | 283 | 355 | Α | Н |
| CH 100 | | 11000 | 65.93 | -8.07 | 74 | 79.36 | 38.93 | 13.34 | 65.7 | 100 | 360 | Р | V |
| 5500MHz | | 11000 | 52.33 | -1.67 | 54 | 65.76 | 38.93 | 13.34 | 65.7 | 258 | 315 | Α | V |
| 802.11n | | 11160 | 65.58 | -8.42 | 74 | 78.92 | 39.05 | 13.19 | 65.58 | 260 | 356 | Р | Н |
| HT20 | | 11160 | 52.18 | -1.82 | 54 | 65.52 | 39.05 | 13.19 | 65.58 | 260 | 356 | Α | Н |
| CH 116 | | 11160 | 65.22 | -8.78 | 74 | 78.56 | 39.05 | 13.19 | 65.58 | 268 | 321 | Р | V |
| 5580MHz | | 11160 | 52.76 | -1.24 | 54 | 66.1 | 39.05 | 13.19 | 65.58 | 268 | 321 | Α | V |
| 802.11n | | 11400 | 63.53 | -10.47 | 74 | 76.72 | 39.23 | 12.99 | 65.41 | 266 | 223 | Р | Н |
| HT20 | | 11400 | 50.69 | -3.31 | 54 | 63.88 | 39.23 | 12.99 | 65.41 | 266 | 223 | Α | Н |
| CH 140 | | 11400 | 64.93 | -9.07 | 74 | 78.12 | 39.23 | 12.99 | 65.41 | 318 | 324 | Р | V |
| 5700MHz | | 11400 | 52.55 | -1.45 | 54 | 65.74 | 39.23 | 12.99 | 65.41 | 318 | 324 | Α | V |

Remark

Sporton International (Kunshan) Inc.

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^{1.} No other spurious found.

^{2.} All results are PASS against Peak and Average limit line.

Band 3 - 5470~5725MHz WIFI 802.11n HT40 (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|-----------|------|-----------|------------|-----------------|--------------------|-----------------|--------------------|--------------|-------------|---------------|----------------|---------------|------|
| Ant. 1 | | (MHz) | (dBµV/m) | Limit (dB) | Line (dBµV/m) | Level (dBµV) | Factor (dB/m) | Loss (dB) | Factor (dB) | Pos (cm) | Pos (deg) | Avg. (P/A) | |
| | | 5457.68 | 57.44 | -16.56 | 74 | 47.12 | 35.15 | 8.37 | 33.2 | 260 | 85 | Р | Н |
| | | 5466 | 58.41 | -9.89 | 68.3 | 48.08 | 35.14 | 8.39 | 33.2 | 260 | 85 | Р | Н |
| | | 5459.12 | 47.54 | -6.46 | 54 | 37.22 | 35.15 | 8.37 | 33.2 | 260 | 85 | Α | Н |
| | * | 5502 | 100.96 | - | - | 90.62 | 35.11 | 8.43 | 33.2 | 260 | 85 | Р | Н |
| 802.11n | | 5502 | 93.28 | - | - | 82.94 | 35.11 | 8.43 | 33.2 | 260 | 85 | Α | Н |
| HT40 | | 5763.72 | 52.61 | -15.69 | 68.3 | 42.3 | 34.89 | 8.59 | 33.17 | 260 | 85 | Р | Н |
| CH 102 | | 5454.64 | 59.41 | -14.59 | 74 | 49.09 | 35.15 | 8.37 | 33.2 | 301 | 56 | Р | V |
| 5510MHz | | 5464.08 | 61.5 | -6.8 | 68.3 | 51.17 | 35.14 | 8.39 | 33.2 | 301 | 56 | Р | V |
| | | 5459.76 | 49.58 | -4.42 | 54 | 39.26 | 35.15 | 8.37 | 33.2 | 301 | 56 | Α | V |
| | * | 5496 | 104.03 | - | - | 93.7 | 35.12 | 8.41 | 33.2 | 301 | 56 | Р | V |
| | | 5496 | 97.04 | - | - | 86.71 | 35.12 | 8.41 | 33.2 | 301 | 56 | Α | V |
| | | 5743.32 | 52.62 | -15.68 | 68.3 | 42.29 | 34.91 | 8.59 | 33.17 | 301 | 56 | Р | V |
| | | 5355.92 | 52.7 | -21.3 | 74 | 42.47 | 35.23 | 8.22 | 33.22 | 317 | 55 | Р | Н |
| | | 5462 | 52.63 | -15.67 | 68.3 | 42.31 | 35.15 | 8.37 | 33.2 | 317 | 55 | Р | Н |
| | | 5350 | 43.72 | -10.28 | 54 | 33.49 | 35.23 | 8.22 | 33.22 | 317 | 55 | Α | Н |
| | * | 5672 | 97.26 | - | - | 86.89 | 34.97 | 8.57 | 33.17 | 317 | 55 | Р | Н |
| 802.11n | | 5672 | 89 | - | - | 78.63 | 34.97 | 8.57 | 33.17 | 317 | 55 | Α | Н |
| HT40 | | 5738.76 | 52.6 | -15.7 | 68.3 | 42.27 | 34.91 | 8.59 | 33.17 | 317 | 55 | Р | Н |
| CH 134 | | 5350.64 | 54.25 | -19.75 | 74 | 44.02 | 35.23 | 8.22 | 33.22 | 302 | 50 | Р | V |
| 5670MHz | | 5461.68 | 52.58 | -15.72 | 68.3 | 42.26 | 35.15 | 8.37 | 33.2 | 302 | 50 | Р | V |
| | | 5350 | 45.48 | -8.52 | 54 | 35.25 | 35.23 | 8.22 | 33.22 | 302 | 50 | Α | V |
| | * | 5658 | 102.22 | 1 | - | 91.84 | 34.98 | 8.57 | 33.17 | 302 | 50 | Р | V |
| | | 5658 | 94.37 | - | - | 83.99 | 34.98 | 8.57 | 33.17 | 302 | 50 | Α | V |
| | | 5725.16 | 53.19 | -15.11 | 68.3 | 42.86 | 34.92 | 8.58 | 33.17 | 302 | 50 | Р | V |

Remark

. No other spurious found.

2. All results are PASS against Peak and Average limit line.

Sporton International (Kunshan) Inc.

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Band 3 - 5470~5725MHz WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|-----------|------|-----------|------------|---------------|--------------------|-----------------|--------------------|--------------|---------------|---------------|----------------|---------------|------|
| Ant. 1 | | (MHz) | (dBµV/m) | Limit (dB) | Line (dBµV/m) | Level (dBµV) | Factor (dB/m) | Loss (dB) | Factor (dB) | Pos (cm) | Pos (deg) | Avg. (P/A) | |
| 802.11n | | 11020 | 56.45 | -17.55 | 74 | 69.88 | 38.94 | 13.32 | 65.69 | 100 | 360 | Р | Н |
| HT40 | | 11020 | 52.1 | -1.9 | 54 | 65.53 | 38.94 | 13.32 | 65.69 | 297 | 0 | Α | Н |
| CH 102 | | 11020 | 56.92 | -17.08 | 74 | 70.35 | 38.94 | 13.32 | 65.69 | 100 | 360 | Р | V |
| 5510MHz | | 11020 | 52.32 | -1.68 | 54 | 65.75 | 38.94 | 13.32 | 65.69 | 300 | 78 | Α | V |
| 802.11n | | 11100 | 54.12 | -19.88 | 74 | 67.5 | 39 | 13.25 | 65.63 | 100 | 360 | Р | Н |
| HT40 | | 11100 | 52.14 | -1.86 | 54 | 65.52 | 39 | 13.25 | 65.63 | 250 | 0 | Α | Н |
| CH 110 | | 11100 | 56.17 | -17.83 | 74 | 69.55 | 39 | 13.25 | 65.63 | 100 | 360 | Р | V |
| 5550MHz | | 11100 | 52.8 | -1.2 | 54 | 66.18 | 39 | 13.25 | 65.63 | 273 | 325 | Α | V |
| 802.11n | | 11340 | 61.55 | -12.45 | 74 | 74.79 | 39.18 | 13.04 | 65.46 | 338 | 223 | Р | Н |
| HT40 | | 11340 | 50.63 | -3.37 | 54 | 63.87 | 39.18 | 13.04 | 65.46 | 338 | 223 | Α | Н |
| CH 134 | | 11340 | 65.21 | -8.79 | 74 | 78.45 | 39.18 | 13.04 | 65.46 | 256 | 323 | Р | V |
| 5670MHz | | 11340 | 52.68 | -1.32 | 54 | 65.92 | 39.18 | 13.04 | 65.46 | 256 | 323 | Α | V |

Remark

Sporton International (Kunshan) Inc.

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^{1.} No other spurious found.

^{2.} All results are PASS against Peak and Average limit line.

Band 3 - 5470~5725MHz WIFI 802.11ac VHT80 (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|-----------|------|-----------|------------|---------------|--------------------|-----------------|-----------------|--------------|---------------|---------------|----------------|---------------|------|
| Ant. 1 | | (MHz) | (dBµV/m) | Limit (dB) | Line (dBµV/m) | Level (dBµV) | Factor (dB/m) | Loss (dB) | Factor (dB) | Pos (cm) | Pos (deg) | Avg. (P/A) | (H/V |
| | | 5453.68 | 58.6 | -15.4 | 74 | 48.28 | 35.15 | 8.37 | 33.2 | 306 | 91 | Р | Н |
| | | 5462.8 | 58.97 | -9.33 | 68.3 | 48.64 | 35.14 | 8.39 | 33.2 | 306 | 91 | Р | Н |
| | | 5460 | 47.42 | -6.58 | 54 | 37.1 | 35.15 | 8.37 | 33.2 | 306 | 91 | Α | Н |
| | * | 5496 | 94.01 | - | - | 83.68 | 35.12 | 8.41 | 33.2 | 306 | 91 | Р | Н |
| 802.11ac | | 5496 | 86.39 | - | - | 76.06 | 35.12 | 8.41 | 33.2 | 306 | 91 | Α | Н |
| VHT80 | | 5727.72 | 52.31 | -15.99 | 68.3 | 41.98 | 34.92 | 8.58 | 33.17 | 306 | 91 | Р | Н |
| CH 106 | | 5458 | 64.78 | -9.22 | 74 | 54.46 | 35.15 | 8.37 | 33.2 | 298 | 54 | Р | V |
| 5530MHz | | 5465.84 | 64.38 | -3.92 | 68.3 | 54.05 | 35.14 | 8.39 | 33.2 | 298 | 54 | Р | V |
| | | 5458.64 | 52.08 | -1.92 | 54 | 41.76 | 35.15 | 8.37 | 33.2 | 298 | 54 | Α | V |
| | * | 5504 | 100.44 | - | - | 90.1 | 35.11 | 8.43 | 33.2 | 298 | 54 | Р | V |
| | | 5504 | 91.99 | - | - | 81.65 | 35.11 | 8.43 | 33.2 | 298 | 54 | Α | V |
| | | 5738.04 | 52.85 | -15.45 | 68.3 | 42.52 | 34.91 | 8.59 | 33.17 | 298 | 54 | Р | V |
| | | 5457.2 | 54.82 | -19.18 | 74 | 44.5 | 35.15 | 8.37 | 33.2 | 300 | 56 | Р | Н |
| | | 5463.28 | 53.74 | -14.56 | 68.3 | 43.41 | 35.14 | 8.39 | 33.2 | 300 | 56 | Р | Н |
| | | 5456.56 | 43.88 | -10.12 | 54 | 33.56 | 35.15 | 8.37 | 33.2 | 300 | 56 | Α | Н |
| | * | 5592 | 94.52 | - | - | 84.13 | 35.04 | 8.53 | 33.18 | 300 | 56 | Р | Н |
| 802.11ac | | 5592 | 86.7 | - | - | 76.31 | 35.04 | 8.53 | 33.18 | 300 | 56 | Α | Н |
| VHT80 | | 5727.64 | 54.92 | -13.38 | 68.3 | 44.59 | 34.92 | 8.58 | 33.17 | 300 | 56 | Р | Н |
| CH 122 | | 5450.96 | 57.72 | -16.28 | 74 | 47.4 | 35.15 | 8.37 | 33.2 | 298 | 52 | Р | V |
| 5610MHz | | 5468.88 | 58.41 | -9.89 | 68.3 | 48.08 | 35.14 | 8.39 | 33.2 | 298 | 52 | Р | V |
| | | 5459.92 | 46.1 | -7.9 | 54 | 35.78 | 35.15 | 8.37 | 33.2 | 298 | 52 | Α | V |
| | * | 5578 | 100.52 | - | - | 90.14 | 35.05 | 8.51 | 33.18 | 298 | 52 | Р | V |
| | | 5578 | 93.13 | - | - | 82.75 | 35.05 | 8.51 | 33.18 | 298 | 52 | Α | V |
| | | 5734.44 | 58.96 | -9.34 | 68.3 | 48.63 | 34.92 | 8.58 | 33.17 | 298 | 52 | Р | V |

Remark

. No other spurious found.

2. All results are PASS against Peak and Average limit line.

Sporton International (Kunshan) Inc.

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Band 3 5470~5725MHz WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Peak Pol. Note Frequency Over Limit Read Antenna Cable **Preamp** Ant Table Level Ant. Limit Line **Factor** Loss Pos Pos Avg. Level Factor (MHz) (dBµV/m) (dB) (dBµV/m) (dBµV) (dB/m) (dB) (dB) (cm) (deg) (P/A) (H/V) 1 11060 61.8 -12.274 75.2 38.98 13.28 65.66 257 Η 3 802.11ac 11060 52.47 -1.53 38.98 257 Н **VHT80** 54 65.87 13.28 65.66 3 Α **CH 106** Ρ ٧ 11060 64.74 -9.26 74 78.14 38.98 13.28 65.66 270 321 5530MHz 11060 52.89 -1.11 66.29 38.98 13.28 65.66 270 321 ٧ 54 Α Ρ 11220 63.09 -10.91 74 76.4 39.09 13.15 65.55 262 360 Н

64

78.74

65.95

39.09

39.09

39.09

13.15

13.15

13.15

65.55

65.55

65.55

262

347

347

360

332

332

Α

Ρ

Α

Н

٧

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Remark

802.11ac

VHT80 CH 122

5610MHz

No other spurious found.

11220

11220

11220

All results are PASS against Peak and Average limit line.

-3.31

-8.57

-1.36

54

74

54

50.69

65.43

52.64

Sporton International (Kunshan) Inc.

TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: 2AG7G-A2A

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Band 3 - Straddle Channel

WIFI 802.11a (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|---------|-------|----------------|------------|-------|----------|--------|----------|--------|--------|--------|-------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| 222.44 | * | 5716 | 100.08 | - | - | 89.73 | 34.94 | 8.58 | 33.17 | 387 | 65 | Р | Н |
| 802.11a | | 5716 | 91.14 | - | - | 80.79 | 34.94 | 8.58 | 33.17 | 387 | 65 | Α | Н |
| CH 144 | * | 5722 | 102.61 | - | - | 92.28 | 34.92 | 8.58 | 33.17 | 295 | 35 | Р | V |
| 5720MHz | | 5722 | 93.81 | - | - | 83.48 | 34.92 | 8.58 | 33.17 | 295 | 35 | Α | ٧ |
| | | | | 1 | | | 1 | | I | 1 | 1 | .1 | |
| Remark | 1. No | o other spurio | us found. | | | | | | | | | | |

Remark

2. All results are PASS against Peak and Average limit line.

Band 3 - Straddle Channel WIFI 802.11a (Harmonic @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|-------------------|------|-----------|----------|--------|------------|--------|----------|--------|--------|--------|-------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| | | 11440 | 62.95 | -11.05 | 74 | 76.13 | 39.25 | 12.96 | 65.39 | 344 | 225 | Р | Н |
| 802.11a | | 11440 | 50.41 | -3.59 | 54 | 63.59 | 39.25 | 12.96 | 65.39 | 344 | 225 | Α | Н |
| CH 144 5720MHz | | 11445 | 65.6 | -8.4 | 74 | 78.78 | 39.25 | 12.96 | 65.39 | 256 | 325 | Р | V |
| 57 ZUIVITIZ | | 11445 | 52.89 | -1.11 | 54 | 66.07 | 39.25 | 12.96 | 65.39 | 256 | 325 | Α | V |

Remark 2.

1. No other spurious found.

2. All results are PASS against Peak and Average limit line.

Sporton International (Kunshan) Inc.

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Band 3 - Straddle Channel WIFI 802.11n HT20 (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|---------|------|-----------|------------|--------|------------|--------|----------|--------|--------|------|-------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| 802.11n | * | 5718 | 100.66 | - | - | 90.33 | 34.92 | 8.58 | 33.17 | 387 | 64 | Р | Н |
| HT20 | | 5718 | 92.96 | - | - | 82.63 | 34.92 | 8.58 | 33.17 | 387 | 64 | Α | Н |
| CH 144 | * | 5722 | 102.94 | - | - | 92.61 | 34.92 | 8.58 | 33.17 | 299 | 39 | Р | ٧ |
| 5720MHz | | 5722 | 94.12 | - | - | 83.79 | 34.92 | 8.58 | 33.17 | 299 | 39 | Α | V |

Remark

- 1. No other spurious found.
- 2. All results are PASS against Peak and Average limit line.

Band 3 - Straddle Channel WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|---------|------|-----------|------------|--------|----------|--------|----------|--------|--------|--------|-------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| 802.11n | | 11440 | 61 | -13 | 74 | 74.18 | 39.25 | 12.96 | 65.39 | 343 | 222 | Р | Н |
| HT20 | | 11440 | 50.41 | -3.59 | 54 | 63.59 | 39.25 | 12.96 | 65.39 | 343 | 222 | Α | Н |
| CH 144 | | 11440 | 63.24 | -10.76 | 74 | 76.42 | 39.25 | 12.96 | 65.39 | 258 | 324 | Р | ٧ |
| 5720MHz | | 11440 | 52.71 | -1.29 | 54 | 65.89 | 39.25 | 12.96 | 65.39 | 258 | 324 | Α | V |

Remark

- No other spurious found.
- 2. All results are PASS against Peak and Average limit line.

Sporton International (Kunshan) Inc.

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Band 3 - Straddle Channel WIFI 802.11n HT40 (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|---------|------|-------------|------------|-------|------------|---------------------|----------|--------|--------|------|-------|-------|-------|
| Ant. | | , . | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dB _µ V) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| 802.11n | * | 5702 | 98.95 | - | - | 88.6 | 34.94 | 8.58 | 33.17 | 386 | 66 | Р | Н |
| HT40 | | 5702 | 90.41 | - | - | 80.06 | 34.94 | 8.58 | 33.17 | 386 | 66 | Α | Н |
| CH 142 | * | 5702 | 102.2 | - | - | 91.85 | 34.94 | 8.58 | 33.17 | 300 | 37 | Р | ٧ |
| 5710MHz | | 5702 | 93.45 | 1 | - | 83.1 | 34.94 | 8.58 | 33.17 | 300 | 37 | Α | V |

Remark

- 1. No other spurious found.
- 2. All results are PASS against Peak and Average limit line.

Band 3 - Straddle Channel WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|---------|------|-----------|------------|--------|------------|---------------------|----------|--------|--------|--------|-------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dB _µ V) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| 802.11n | | 11420 | 62.93 | -11.07 | 74 | 76.12 | 39.24 | 12.97 | 65.4 | 354 | 222 | Р | Н |
| HT40 | | 11420 | 50.55 | -3.45 | 54 | 63.74 | 39.24 | 12.97 | 65.4 | 354 | 222 | Α | I |
| CH 142 | | 11420 | 65.26 | -8.74 | 74 | 78.45 | 39.24 | 12.97 | 65.4 | 268 | 324 | Р | V |
| 5710MHz | | 11420 | 52.79 | -1.21 | 54 | 65.98 | 39.24 | 12.97 | 65.4 | 268 | 324 | Α | V |

Remark

- I. No other spurious found.
- 2. All results are PASS against Peak and Average limit line.

Sporton International (Kunshan) Inc.

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Band 3 - Straddle Channel WIFI 802.11ac VHT80 (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|----------|------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|-------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| 802.11ac | * | 5664 | 97.73 | ı | - | 87.35 | 34.98 | 8.57 | 33.17 | 396 | 69 | Р | Н |
| VHT80 | | 5664 | 88.86 | - | - | 78.48 | 34.98 | 8.57 | 33.17 | 396 | 69 | Α | Τ |
| CH 138 | * | 5658 | 101.41 | - | - | 91.03 | 34.98 | 8.57 | 33.17 | 100 | 193 | Р | 7 |
| 5690MHz | | 5658 | 93.09 | - | - | 82.71 | 34.98 | 8.57 | 33.17 | 100 | 193 | Α | V |

Remark

- 1. No other spurious found.
- 2. All results are PASS against Peak and Average limit line.

Band 3 - Straddle Channel WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|----------|------|-----------|----------|--------|----------|--------|----------|-------|--------|--------|-------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| 802.11ac | | 11380 | 61.63 | -12.37 | 74 | 74.84 | 39.21 | 13.00 | 65.42 | 336 | 221 | Р | Н |
| VHT80 | | 11380 | 50.76 | -3.24 | 54 | 63.97 | 39.21 | 13.00 | 65.42 | 336 | 221 | Α | Н |
| CH 138 | | 11380 | 64.52 | -9.48 | 74 | 77.73 | 39.21 | 13.00 | 65.42 | 262 | 328 | Р | ٧ |
| 5690MHz | | 11380 | 52.71 | -1.29 | 54 | 65.92 | 39.21 | 13.00 | 65.42 | 262 | 328 | Α | V |

Remark

- 1. No other spurious found.
- 2. All results are PASS against Peak and Average limit line.

Sporton International (Kunshan) Inc.

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Emission below 1GHz

WIFI 802.11a (LF @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|---------|------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|-------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| | | 30 | 22.89 | -17.11 | 40 | 29.69 | 24.5 | 0.61 | 31.91 | - | - | Р | Н |
| | | 108.57 | 27.71 | -15.79 | 43.5 | 40.91 | 17.47 | 1.07 | 31.74 | - | - | Р | Н |
| | | 143.49 | 28.38 | -15.12 | 43.5 | 41.88 | 16.93 | 1.22 | 31.65 | - | - | Р | Н |
| | | 264.74 | 31.22 | -14.78 | 46 | 41.44 | 19.16 | 1.76 | 31.14 | - | - | Р | Н |
| | | 710.94 | 35.26 | -10.74 | 46 | 36.41 | 24.73 | 2.67 | 28.55 | - | - | Р | Н |
| 802.11a | | 773.02 | 35.61 | -10.39 | 46 | 35.5 | 25.47 | 2.8 | 28.16 | 100 | 134 | Р | Н |
| LF | | 30 | 22.61 | -17.39 | 40 | 29.41 | 24.5 | 0.61 | 31.91 | - | - | Р | ٧ |
| | | 171.62 | 21.77 | -21.73 | 43.5 | 36.52 | 15.46 | 1.33 | 31.54 | - | - | Р | ٧ |
| | | 262.8 | 27.42 | -18.58 | 46 | 37.6 | 19.21 | 1.76 | 31.15 | - | - | Р | ٧ |
| | | 359.8 | 24.92 | -21.08 | 46 | 33.09 | 20.57 | 1.92 | 30.66 | - | - | Р | V |
| | | 710.94 | 33.42 | -12.58 | 46 | 34.57 | 24.73 | 2.67 | 28.55 | 100 | 49 | Р | V |
| | | 773.02 | 32.11 | -13.89 | 46 | 32 | 25.47 | 2.8 | 28.16 | - | - | Р | V |
| | | 773.02 | 32.11 | -13.89 | 46 | 32 | 25.47 | 2.8 | 28.16 | - | - | Р | |

Remark

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Report Version : Rev. 01

^{1.} No other spurious found.

^{2.} All results are PASS against limit line.

Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|------------------|------|-----------|----------|--------|----------|--------|----------|-------|--------|--------|-------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1+2 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| | * | 5324 | 114.44 | - | - | 104.24 | 35.26 | 8.17 | 33.23 | 297 | 45 | Р | Н |
| | | 5324 | 107.41 | - | - | 97.21 | 35.26 | 8.17 | 33.23 | 297 | 45 | Α | Н |
| 000.44 | | 5350.2 | 61.41 | -12.59 | 74 | 51.18 | 35.23 | 8.22 | 33.22 | 297 | 45 | Р | Н |
| 802.11a | | 5350 | 51.96 | -2.04 | 54 | 41.73 | 35.23 | 8.22 | 33.22 | 297 | 45 | Α | Н |
| CH 64 5320MHz | * | 5322 | 108.34 | - | - | 98.14 | 35.26 | 8.17 | 33.23 | 315 | 8 | Р | V |
| 3320WITIZ | | 5322 | 101.25 | - | - | 91.05 | 35.26 | 8.17 | 33.23 | 315 | 8 | Α | V |
| | | 5351.2 | 56.78 | -17.22 | 74 | 46.55 | 35.23 | 8.22 | 33.22 | 315 | 8 | Р | V |
| | | 5352 | 46.76 | -7.24 | 54 | 36.53 | 35.23 | 8.22 | 33.22 | 315 | 8 | Α | V |

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Band 2 5250~5350MHz WIFI 802.11a (Harmonic @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|------------------|------|-----------|------------|---------------|--------------------|-----------------|-----------------|--------------|-------------|---------------|----------------|---------------|------|
| Ant. 1+2 | | (MHz) | (dBµV/m) | Limit (dB) | Line (dBµV/m) | Level (dBµV) | Factor (dB/m) | Loss (dB) | Factor (dB) | Pos (cm) | Pos (deg) | Avg. (P/A) | |
| | | 10520 | 66.82 | -1.48 | 68.3 | 82 | 38.58 | 12.28 | 66.04 | 282 | 237 | Р | Н |
| | | 15780 | 50.46 | -23.54 | 74 | 61.45 | 40.68 | 14.24 | 65.91 | 241 | 134 | Р | Н |
| 802.11a | | 15780 | 47.82 | -6.18 | 54 | 58.81 | 40.68 | 14.24 | 65.91 | 241 | 134 | Α | Н |
| CH 52 5260MHz | | 10520 | 64.84 | -3.46 | 68.3 | 80.02 | 38.58 | 12.28 | 66.04 | 339 | 216 | Р | V |
| 3260IVITI2 | | 15780 | 52.18 | -21.82 | 74 | 63.17 | 40.68 | 14.24 | 65.91 | 100 | 194 | Р | V |
| | | 15780 | 45.83 | -8.17 | 54 | 56.82 | 40.68 | 14.24 | 65.91 | 100 | 194 | Α | V |
| | | 10600 | 63.86 | -4.44 | 68.3 | 78.73 | 38.64 | 12.47 | 65.98 | 273 | 236 | Р | Н |
| | | 10600 | 52.48 | -1.52 | 54 | 67.35 | 38.64 | 12.47 | 65.98 | 273 | 236 | Α | Н |
| 802.11a | | 15900 | 46.44 | -27.56 | 74 | 57.79 | 40.58 | 14.33 | 66.26 | 100 | 0 | Р | Н |
| CH 60 | | 10600 | 63.23 | -5.07 | 68.3 | 78.1 | 38.64 | 12.47 | 65.98 | 319 | 216 | Р | V |
| 5300MHz | | 10600 | 52.72 | -1.28 | 54 | 67.59 | 38.64 | 12.47 | 65.98 | 319 | 216 | Α | V |
| | | 15900 | 48.22 | -25.78 | 74 | 59.57 | 40.58 | 14.33 | 66.26 | 100 | 0 | Р | V |
| | | 10640 | 62.89 | -11.11 | 74 | 77.63 | 38.67 | 12.55 | 65.96 | 262 | 240 | Р | Н |
| | | 10640 | 52.57 | -1.43 | 54 | 67.31 | 38.67 | 12.55 | 65.96 | 262 | 240 | Α | Н |
| 802.11a | | 15960 | 44.14 | -29.86 | 74 | 55.69 | 40.53 | 14.38 | 66.46 | 100 | 0 | Р | Н |
| CH 64 | | 10640 | 63.34 | -10.66 | 74 | 78.08 | 38.67 | 12.55 | 65.96 | 323 | 221 | Р | V |
| 5320MHz | | 10640 | 52.86 | -1.14 | 54 | 67.6 | 38.67 | 12.55 | 65.96 | 323 | 221 | Α | V |
| | | 15960 | 45.54 | -28.46 | 74 | 57.09 | 40.53 | 14.38 | 66.46 | 100 | 0 | Р | V |

Remark

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^{1.} No other spurious found.

^{2.} All results are PASS against Peak and Average limit line.

Band 2 5250~5350MHz WIFI 802.11n HT20 (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|---------|------|-----------|----------|--------|------------|--------|----------|--------|--------|--------|---------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1+2 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| | * | 5328 | 113.76 | - | - | 103.54 | 35.24 | 8.2 | 33.22 | 278 | 45 | Р | Н |
| | | 5328 | 106.4 | - | - | 96.18 | 35.24 | 8.2 | 33.22 | 278 | 45 | Α | Н |
| 802.11n | | 5350.1 | 60.91 | -13.09 | 74 | 50.68 | 35.23 | 8.22 | 33.22 | 278 | 45 | Р | Н |
| HT20 | | 5350.1 | 50.56 | -3.44 | 54 | 40.33 | 35.23 | 8.22 | 33.22 | 278 | 45 | Α | Н |
| CH 64 | * | 5326 | 109.85 | - | - | 99.65 | 35.26 | 8.17 | 33.23 | 262 | 55 | Р | ٧ |
| 5320MHz | | 5326 | 102.02 | - | - | 91.82 | 35.26 | 8.17 | 33.23 | 262 | 55 | Α | ٧ |
| | | 5350 | 58.71 | -15.29 | 74 | 48.48 | 35.23 | 8.22 | 33.22 | 262 | 55 | Р | ٧ |
| | | 5350 | 47.9 | -6.1 | 54 | 37.67 | 35.23 | 8.22 | 33.22 | 262 | 55 | Α | ٧ |

Sporton International (Kunshan) Inc.

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Band 2 5250~5350MHz WIFI 802.11n HT20 (Harmonic @ 3m)

| | | | | F | | - F | | | F | F | | _ | |
|---------|------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|---------|-------|-------|
| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1+2 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| | | 10520 | 65.96 | -2.34 | 68.3 | 81.14 | 38.58 | 12.28 | 66.04 | 278 | 240 | Р | Н |
| 802.11n | | 15780 | 60.29 | -13.71 | 74 | 71.28 | 40.68 | 14.24 | 65.91 | 274 | 110 | Р | Н |
| HT20 | | 15780 | 49.29 | -4.71 | 54 | 60.28 | 40.68 | 14.24 | 65.91 | 274 | 110 | Α | Н |
| CH 52 | | 10520 | 62.82 | -5.48 | 68.3 | 78 | 38.58 | 12.28 | 66.04 | 344 | 217 | Р | V |
| 5260MHz | | 15780 | 58.95 | -15.05 | 74 | 69.94 | 40.68 | 14.24 | 65.91 | 100 | 196 | Р | V |
| | | 15780 | 48.64 | -5.36 | 54 | 59.63 | 40.68 | 14.24 | 65.91 | 100 | 196 | Α | V |
| | | 10600 | 63.44 | -10.56 | 74 | 78.31 | 38.64 | 12.47 | 65.98 | 265 | 237 | Р | Н |
| | | 10600 | 52.41 | -1.59 | 54 | 67.28 | 38.64 | 12.47 | 65.98 | 265 | 237 | Α | Н |
| 802.11n | | 15900 | 59.88 | -14.12 | 74 | 71.23 | 40.58 | 14.33 | 66.26 | 240 | 132 | Р | Н |
| HT20 | | 15900 | 48.21 | -5.79 | 54 | 59.56 | 40.58 | 14.33 | 66.26 | 240 | 132 | Α | Н |
| CH 60 | | 10600 | 60.33 | -13.67 | 74 | 75.2 | 38.64 | 12.47 | 65.98 | 335 | 221 | Р | V |
| 5300MHz | | 10600 | 51.82 | -2.18 | 54 | 66.69 | 38.64 | 12.47 | 65.98 | 335 | 221 | Α | V |
| | | 15900 | 55.22 | -18.78 | 74 | 66.57 | 40.58 | 14.33 | 66.26 | 297 | 203 | Р | V |
| | | 15900 | 44.16 | -9.84 | 54 | 55.51 | 40.58 | 14.33 | 66.26 | 297 | 203 | Α | V |
| 802.11n | | 10640 | 62.76 | -11.24 | 74 | 77.5 | 38.67 | 12.55 | 65.96 | 103 | 286 | Р | Н |
| HT20 | | 10640 | 51.75 | -2.25 | 54 | 66.49 | 38.67 | 12.55 | 65.96 | 103 | 286 | Α | Н |
| CH 64 | | 10645 | 62.91 | -11.09 | 74 | 77.65 | 38.67 | 12.55 | 65.96 | 137 | 286 | Р | V |
| 5320MHz | | 10645 | 51.67 | -2.33 | 54 | 66.41 | 38.67 | 12.55 | 65.96 | 137 | 286 | Α | V |

Remark

1. No other spurious found.

2. All results are PASS against Peak and Average limit line.

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Band 2 5250~5350MHz WIFI 802.11n HT40 (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|-------------|------|-----------|------------|-----------------|--------------------|-----------------|-----------------|--------------|-------------|---------------|----------------|---------------|------|
| Ant. 1+2 | | (MHz) | (dBµV/m) | Limit (dB) | Line (dBµV/m) | Level (dBµV) | Factor (dB/m) | Loss (dB) | Factor (dB) | Pos (cm) | Pos (deg) | Avg. (P/A) | |
| | | 5141.76 | 55.46 | -18.54 | 74 | 45.33 | 35.39 | 7.99 | 33.25 | 305 | 45 | Р | Н |
| | | 5149.12 | 45.43 | -8.57 | 54 | 35.3 | 35.39 | 7.99 | 33.25 | 305 | 45 | Α | Н |
| | * | 5276 | 113.75 | - | - | 103.58 | 35.28 | 8.12 | 33.23 | 305 | 45 | Р | Н |
| | | 5276 | 106.16 | - | - | 95.99 | 35.28 | 8.12 | 33.23 | 305 | 45 | Α | Н |
| 802.11n | | 5354.7 | 62.71 | -11.29 | 74 | 52.48 | 35.23 | 8.22 | 33.22 | 305 | 45 | Р | Н |
| HT40 | | 5350.5 | 52.33 | -1.67 | 54 | 42.1 | 35.23 | 8.22 | 33.22 | 305 | 45 | Α | Н |
| CH 54 | | 5126.4 | 54.91 | -19.09 | 74 | 44.77 | 35.41 | 7.99 | 33.26 | 301 | 66 | Р | V |
| 5270MHz | | 5149.76 | 44.15 | -9.85 | 54 | 34.02 | 35.39 | 7.99 | 33.25 | 301 | 66 | Α | V |
| | * | 5274 | 110.56 | - | - | 100.4 | 35.3 | 8.09 | 33.23 | 301 | 66 | Р | V |
| | | 5274 | 102.1 | - | - | 91.94 | 35.3 | 8.09 | 33.23 | 301 | 66 | Α | V |
| | | 5350.3 | 58.54 | -15.46 | 74 | 48.31 | 35.23 | 8.22 | 33.22 | 301 | 66 | Р | V |
| | | 5350.1 | 49.03 | -4.97 | 54 | 38.8 | 35.23 | 8.22 | 33.22 | 301 | 66 | Α | V |
| | | 5140.16 | 55.35 | -18.65 | 74 | 45.22 | 35.39 | 7.99 | 33.25 | 276 | 47 | Р | Н |
| | | 5133.76 | 44.29 | -9.71 | 54 | 34.15 | 35.41 | 7.99 | 33.26 | 276 | 47 | Α | Н |
| | * | 5308 | 109.16 | - | - | 98.97 | 35.27 | 8.15 | 33.23 | 276 | 47 | Р | Н |
| | | 5308 | 101.39 | - | - | 91.2 | 35.27 | 8.15 | 33.23 | 276 | 47 | Α | Н |
| 802.11n | | 5350.5 | 62.89 | -11.11 | 74 | 52.66 | 35.23 | 8.22 | 33.22 | 276 | 47 | Р | Н |
| HT40 | | 5350.1 | 52.56 | -1.44 | 54 | 42.33 | 35.23 | 8.22 | 33.22 | 276 | 47 | Α | Н |
| CH 62 | | 5133.76 | 53.84 | -20.16 | 74 | 43.7 | 35.41 | 7.99 | 33.26 | 281 | 57 | Р | V |
| 5310MHz | | 5133.44 | 43.7 | -10.3 | 54 | 33.56 | 35.41 | 7.99 | 33.26 | 281 | 57 | Α | V |
| | * | 5308 | 106.11 | - | - | 95.92 | 35.27 | 8.15 | 33.23 | 281 | 57 | Р | V |
| | | 5308 | 98.19 | - | - | 88 | 35.27 | 8.15 | 33.23 | 281 | 57 | Α | V |
| | | 5350 | 59.49 | -14.51 | 74 | 49.26 | 35.23 | 8.22 | 33.22 | 281 | 57 | Р | V |
| | | 5350.2 | 49.21 | -4.79 | 54 | 38.98 | 35.23 | 8.22 | 33.22 | 281 | 57 | Α | V |

Remark

I. No other spurious found.

2. All results are PASS against Peak and Average limit line.

Sporton International (Kunshan) Inc.

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Band 2 5250~5350MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|---------|------|-----------|------------|--------|-----------------|--------|----------|--------|--------|--------|-------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1+2 | | (MHz) | (dBµV/m) | (dB) | ($dB\mu V/m$) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| 802.11n | | 10540 | 64.62 | -3.68 | 68.3 | 79.73 | 38.6 | 12.32 | 66.03 | 292 | 312 | Р | Н |
| HT40 | | 15810 | 50.08 | -23.92 | 74 | 61.18 | 40.65 | 14.26 | 66.01 | 100 | 0 | Р | Н |
| CH 54 | | 10545 | 61.75 | -6.55 | 68.3 | 76.86 | 38.6 | 12.32 | 66.03 | 100 | 318 | Р | ٧ |
| 5270MHz | | 15810 | 47.4 | -26.6 | 74 | 58.5 | 40.65 | 14.26 | 66.01 | 100 | 0 | Р | V |
| 802.11n | | 10620 | 57.32 | -16.68 | 74 | 72.12 | 38.66 | 12.51 | 65.97 | 100 | 289 | Р | Н |
| HT40 | | 10620 | 47.83 | -6.17 | 54 | 62.63 | 38.66 | 12.51 | 65.97 | 100 | 289 | Α | Н |
| CH 62 | | 10620 | 55.94 | -18.06 | 74 | 70.74 | 38.66 | 12.51 | 65.97 | 100 | 313 | Р | V |
| 5310MHz | | 10620 | 46.84 | -7.16 | 54 | 61.64 | 38.66 | 12.51 | 65.97 | 100 | 313 | Α | ٧ |

Remark

2. All results are PASS against Peak and Average limit line.

No other spurious found.

Sporton International (Kunshan) Inc.

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Band 2 5250~5350MHz WIFI 802.11ac VHT80 (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|-------------|------|-----------|------------|--------|------------|--------|----------|--------|--------|-----|---------|------|-------|
| Ant. 1+2 | | (MHz) | (dBµV/m) | Limit | Line | Level | Factor | Loss | Factor | Pos | | Avg. | |
| 1+2 | | • • | | | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | , | (deg) | | (H/V) |
| | | 5142.24 | 54.47 | -19.53 | 74 | 44.34 | 35.39 | 7.99 | 33.25 | 299 | 46 | Р | Н |
| | | 5130.24 | 45.04 | -8.96 | 54 | 34.9 | 35.41 | 7.99 | 33.26 | 299 | 46 | Α | Н |
| | * | 5288 | 104.4 | - | - | 94.23 | 35.28 | 8.12 | 33.23 | 299 | 46 | Р | Н |
| | | 5288 | 97.91 | - | - | 87.74 | 35.28 | 8.12 | 33.23 | 299 | 46 | Α | Н |
| 802.11ac | | 5351.1 | 60.88 | -13.12 | 74 | 50.65 | 35.23 | 8.22 | 33.22 | 299 | 46 | Р | Н |
| VHT80 | | 5350.7 | 51.36 | -2.64 | 54 | 41.13 | 35.23 | 8.22 | 33.22 | 299 | 46 | Α | Н |
| CH 58 | | 5140.8 | 54.38 | -19.62 | 74 | 44.25 | 35.39 | 7.99 | 33.25 | 284 | 57 | Р | V |
| 5290MHz | | 5129.12 | 44.05 | -9.95 | 54 | 33.91 | 35.41 | 7.99 | 33.26 | 284 | 57 | Α | ٧ |
| | * | 5290 | 100.88 | - | - | 90.71 | 35.28 | 8.12 | 33.23 | 284 | 57 | Р | ٧ |
| | | 5290 | 95.36 | - | - | 85.19 | 35.28 | 8.12 | 33.23 | 284 | 57 | Α | V |
| | | 5350.9 | 56.46 | -17.54 | 74 | 46.23 | 35.23 | 8.22 | 33.22 | 284 | 57 | Р | V |
| | | 5350.6 | 47.9 | -6.1 | 54 | 37.67 | 35.23 | 8.22 | 33.22 | 284 | 57 | Α | V |

Remark

Sporton International (Kunshan) Inc.

TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: 2AG7G-A2A Page Number : C28 of C64
Report Issued Date : Nov. 06, 2018

Report No.: FR860502E

Report Version : Rev. 01

^{1.} No other spurious found.

^{2.} All results are PASS against Peak and Average limit line.

Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|----------|------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|-------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | | Avg. | |
| 1+2 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| 802.11ac | | 10580 | 49.22 | -19.08 | 68.3 | 64.16 | 38.63 | 12.43 | 66 | 100 | 360 | Р | Н |
| VHT80 | | | | | | | | | | | | | |
| CH 58 | | 10585 | 49.07 | -19.23 | 68.3 | 64.01 | 38.63 | 12.43 | 66 | 100 | 360 | Р | V |
| 5290MHz | | | | | | | | | | | | | |

Remark

Sporton International (Kunshan) Inc.

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^{1.} No other spurious found.

^{2.} All results are PASS against Peak and Average limit line.

Band 3 - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|-------------------|------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|-------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1+2 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| | | 5452.72 | 58.4 | -15.6 | 74 | 48.08 | 35.15 | 8.37 | 33.2 | 306 | 62 | Р | Н |
| | | 5462.64 | 57.54 | -10.76 | 68.3 | 47.21 | 35.14 | 8.39 | 33.2 | 306 | 62 | Р | Н |
| | | 5458 | 49.59 | -4.41 | 54 | 39.27 | 35.15 | 8.37 | 33.2 | 306 | 62 | Α | Н |
| 000.44 | * | 5504 | 110.4 | - | - | 100.06 | 35.11 | 8.43 | 33.2 | 306 | 62 | Р | Н |
| 802.11a | | 5504 | 102.83 | - | - | 92.49 | 35.11 | 8.43 | 33.2 | 306 | 62 | Α | Н |
| CH 100 5500MHz | | 5454.96 | 53.36 | -20.64 | 74 | 43.04 | 35.15 | 8.37 | 33.2 | 315 | 8 | Р | ٧ |
| 3300WII 12 | | 5465.52 | 53.76 | -14.54 | 68.3 | 43.43 | 35.14 | 8.39 | 33.2 | 315 | 8 | Р | ٧ |
| | | 5455.12 | 45.06 | -8.94 | 54 | 34.74 | 35.15 | 8.37 | 33.2 | 315 | 8 | Α | ٧ |
| | * | 5496 | 105.51 | - | - | 95.18 | 35.12 | 8.41 | 33.2 | 315 | 8 | Р | ٧ |
| | | 5496 | 97.84 | - | - | 87.51 | 35.12 | 8.41 | 33.2 | 315 | 8 | Α | ٧ |
| | * | 5700 | 107.49 | - | - | 97.14 | 34.95 | 8.57 | 33.17 | 299 | 58 | Р | Н |
| | | 5700 | 100.11 | - | - | 89.76 | 34.95 | 8.57 | 33.17 | 299 | 58 | Α | Н |
| 802.11a | | 5733.88 | 55.96 | -12.34 | 68.3 | 45.63 | 34.92 | 8.58 | 33.17 | 299 | 58 | Р | Н |
| CH 140 5700MHz | * | 5704 | 104.43 | - | - | 94.08 | 34.94 | 8.58 | 33.17 | 323 | 8 | Р | V |
| 37 UUIVIM2 | | 5704 | 96.37 | - | - | 86.02 | 34.94 | 8.58 | 33.17 | 323 | 8 | Α | ٧ |
| | | 5744.44 | 52.95 | -15.35 | 68.3 | 42.62 | 34.91 | 8.59 | 33.17 | 323 | 8 | Р | V |

Sporton International (Kunshan) Inc.

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Band 3 - 5470~5725MHz WIFI 802.11a (Harmonic @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|-------------------|------|-----------|------------|---------------|--------------------|-----------------|-----------------|--------------|-------------|---------------|----------------|---------------|-------|
| Ant. 1+2 | | (MHz) | (dBµV/m) | Limit (dB) | Line (dBµV/m) | Level (dBµV) | Factor (dB/m) | Loss (dB) | Factor (dB) | Pos (cm) | Pos (deg) | Avg. (P/A) | (H/V) |
| 802.11a | | 11000 | 65.07 | -8.93 | 74 | 78.5 | 38.93 | 13.34 | 65.7 | 272 | 243 | Р | Η |
| CH 100 | | 11000 | 52.62 | -1.38 | 54 | 66.05 | 38.93 | 13.34 | 65.7 | 272 | 243 | Α | Н |
| 5500MHz | | 11000 | 64.14 | -9.86 | 74 | 77.57 | 38.93 | 13.34 | 65.7 | 100 | 360 | Р | ٧ |
| 3300WIF12 | | 11000 | 52.89 | -1.11 | 54 | 66.32 | 38.93 | 13.34 | 65.7 | 330 | 225 | Α | ٧ |
| 000 44 - | | 11160 | 64.11 | -9.89 | 74 | 77.45 | 39.05 | 13.19 | 65.58 | 264 | 243 | Р | Н |
| 802.11a | | 11160 | 52.87 | -1.13 | 54 | 66.21 | 39.05 | 13.19 | 65.58 | 264 | 243 | Α | Н |
| CH 116 5580MHz | | 11160 | 64.34 | -9.66 | 74 | 77.68 | 39.05 | 13.19 | 65.58 | 288 | 222 | Р | ٧ |
| 3360WITI2 | | 11160 | 52.62 | -1.38 | 54 | 65.96 | 39.05 | 13.19 | 65.58 | 288 | 222 | Α | ٧ |
| 000 44 | | 11400 | 63.36 | -10.64 | 74 | 76.55 | 39.23 | 12.99 | 65.41 | 227 | 247 | Р | Н |
| 802.11a | | 11400 | 52.92 | -1.08 | 54 | 66.11 | 39.23 | 12.99 | 65.41 | 227 | 247 | Α | Н |
| CH 140 5700MHz | | 11400 | 61.24 | -12.76 | 74 | 74.43 | 39.23 | 12.99 | 65.41 | 311 | 228 | Р | ٧ |
| 37 00101112 | | 11400 | 50.29 | -3.71 | 54 | 63.48 | 39.23 | 12.99 | 65.41 | 311 | 228 | Α | V |

Sporton International (Kunshan) Inc.

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Report Version

No other spurious found.

All results are PASS against Peak and Average limit line.

Band 3 - 5470~5725MHz WIFI 802.11n HT20 (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|-------------|------|-----------|------------|---------------|--------------------|-----------------|--------------------|--------------|------------------|-------------|----------------|---------------|-------|
| Ant. 1+2 | | (MHz) | (dBµV/m) | Limit (dB) | Line (dBµV/m) | Level (dBµV) | Factor (dB/m) | Loss (dB) | Factor (dB) | Pos (cm) | Pos (deg) | Avg. (P/A) | (H/V) |
| | | 5454.48 | 57.46 | -16.54 | 74 | 47.14 | 35.15 | 8.37 | 33.2 | 308 | 60 | Р | Н |
| | | 5462.64 | 57.31 | -10.99 | 68.3 | 46.98 | 35.14 | 8.39 | 33.2 | 308 | 60 | Р | Н |
| | | 5453.04 | 48.42 | -5.58 | 54 | 38.1 | 35.15 | 8.37 | 33.2 | 308 | 60 | Α | Н |
| 802.11n | * | 5494 | 110.81 | - | - | 100.48 | 35.12 | 8.41 | 33.2 | 308 | 60 | Р | Н |
| HT20 | | 5494 | 102.93 | - | - | 92.6 | 35.12 | 8.41 | 33.2 | 308 | 60 | Α | Н |
| CH 100 | | 5455.44 | 55.7 | -18.3 | 74 | 45.38 | 35.15 | 8.37 | 33.2 | 396 | 0 | Р | V |
| 5500MHz | | 5466.96 | 55.67 | -12.63 | 68.3 | 45.34 | 35.14 | 8.39 | 33.2 | 396 | 0 | Р | V |
| | | 5452.56 | 46.71 | -7.29 | 54 | 36.39 | 35.15 | 8.37 | 33.2 | 396 | 0 | Α | V |
| | * | 5508 | 107.49 | - | - | 97.15 | 35.11 | 8.43 | 33.2 | 396 | 0 | Р | V |
| | | 5508 | 99.61 | - | - | 89.27 | 35.11 | 8.43 | 33.2 | 396 | 0 | Α | V |
| | * | 5706 | 110.42 | - | - | 100.07 | 34.94 | 8.58 | 33.17 | 298 | 59 | Р | Н |
| 802.11n | | 5706 | 100.81 | - | - | 90.46 | 34.94 | 8.58 | 33.17 | 298 | 59 | Α | Н |
| HT20 | | 5725.48 | 57.21 | -11.09 | 68.3 | 46.88 | 34.92 | 8.58 | 33.17 | 298 | 59 | Р | Н |
| CH 140 | * | 5700 | 106.95 | - | - | 96.6 | 34.95 | 8.57 | 33.17 | 342 | 6 | Р | V |
| 5700MHz | | 5700 | 97.55 | - | - | 87.2 | 34.95 | 8.57 | 33.17 | 342 | 6 | Α | V |
| | _ | 5734.04 | 53.94 | -14.36 | 68.3 | 43.61 | 34.92 | 8.58 | 33.17 | 342 | 6 | Р | V |

Sporton International (Kunshan) Inc.

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Band 3 - 5470~5725MHz WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|-------------|------|-----------|------------|---------------|--------------------|-----------------|-----------------|--------------|-------------|---------------|----------------|---------------|-------|
| Ant. 1+2 | | (MHz) | (dBµV/m) | Limit (dB) | Line (dBµV/m) | Level (dBµV) | Factor (dB/m) | Loss (dB) | Factor (dB) | Pos (cm) | Pos (deg) | Avg. (P/A) | (H/V) |
| 802.11n | | 11000 | 65.11 | -8.89 | 74 | 78.54 | 38.93 | 13.34 | 65.7 | 272 | 241 | Р | Н |
| HT20 | | 11000 | 52.6 | -1.4 | 54 | 66.03 | 38.93 | 13.34 | 65.7 | 272 | 241 | Α | Н |
| CH 100 | | 11000 | 65.56 | -8.44 | 74 | 78.99 | 38.93 | 13.34 | 65.7 | 312 | 220 | Р | ٧ |
| 5500MHz | | 11000 | 52.02 | -1.98 | 54 | 65.45 | 38.93 | 13.34 | 65.7 | 312 | 220 | Α | ٧ |
| 802.11n | | 11160 | 65.66 | -8.34 | 74 | 79 | 39.05 | 13.19 | 65.58 | 271 | 246 | Р | Н |
| HT20 | | 11160 | 52.89 | -1.11 | 54 | 66.23 | 39.05 | 13.19 | 65.58 | 271 | 246 | Α | Н |
| CH 116 | | 11160 | 62.07 | -11.93 | 74 | 75.41 | 39.05 | 13.19 | 65.58 | 300 | 221 | Р | ٧ |
| 5580MHz | | 11160 | 51.15 | -2.85 | 54 | 64.49 | 39.05 | 13.19 | 65.58 | 300 | 222 | Α | V |
| 802.11n | | 11400 | 64.97 | -9.03 | 74 | 78.16 | 39.23 | 12.99 | 65.41 | 280 | 110 | Р | Н |
| HT20 | | 11400 | 52.64 | -1.36 | 54 | 65.83 | 39.23 | 12.99 | 65.41 | 280 | 110 | Α | Н |
| CH 140 | | 11400 | 61.1 | -12.9 | 74 | 74.29 | 39.23 | 12.99 | 65.41 | 305 | 224 | Р | ٧ |
| 5700MHz | | 11400 | 50.84 | -3.16 | 54 | 64.03 | 39.23 | 12.99 | 65.41 | 305 | 224 | Α | V |

Remark

Sporton International (Kunshan) Inc.

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^{1.} No other spurious found.

^{2.} All results are PASS against Peak and Average limit line.

Band 3 - 5470~5725MHz WIFI 802.11n HT40 (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|-------------|------|-----------|------------|---------------|--------------------|-------------------|-----------------|--------------|---------------|---------------|----------------|---------------|------|
| Ant. 1+2 | | (MHz) | (dBµV/m) | Limit (dB) | Line (dBµV/m) | Level (dBµV) | Factor (dB/m) | Loss (dB) | Factor (dB) | Pos (cm) | Pos (deg) | Avg. (P/A) | |
| | | 5457.52 | 61.62 | -12.38 | 74 | 51.3 | 35.15 | 8.37 | 33.2 | 304 | 62 | Р | Н |
| | | 5461.52 | 61.77 | -6.53 | 68.3 | 51.45 | 35.15 | 8.37 | 33.2 | 304 | 62 | Р | Н |
| | | 5458.16 | 51.47 | -2.53 | 54 | 41.15 | 35.15 | 8.37 | 33.2 | 304 | 62 | Α | Н |
| | * | 5516 | 109.87 | - | - | 99.52 | 35.09 | 8.45 | 33.19 | 304 | 62 | Р | Н |
| 802.11n | | 5516 | 102.44 | - | - | 92.09 | 35.09 | 8.45 | 33.19 | 304 | 62 | Α | Н |
| HT40 | | 5735.64 | 53.45 | -14.85 | 68.3 | 43.12 | 34.91 | 8.59 | 33.17 | 304 | 62 | Р | Н |
| CH 102 | | 5459.12 | 59.46 | -14.54 | 74 | 49.14 | 35.15 | 8.37 | 33.2 | 395 | 0 | Р | V |
| 5510MHz | | 5470 | 60.2 | -8.1 | 68.3 | 49.87 | 35.14 | 8.39 | 33.2 | 395 | 0 | Р | V |
| | | 5458.32 | 48.89 | -5.11 | 54 | 38.57 | 35.15 | 8.37 | 33.2 | 395 | 0 | Α | V |
| | * | 5518 | 106.92 | - | - | 96.57 | 35.09 | 8.45 | 33.19 | 395 | 0 | Р | V |
| | | 5518 | 99.81 | - | - | 89.46 | 35.09 | 8.45 | 33.19 | 395 | 0 | Α | V |
| | | 5757.24 | 53.17 | -15.13 | 68.3 | 42.86 | 34.89 | 8.59 | 33.17 | 395 | 0 | Р | V |
| | | 5351.12 | 54.39 | -19.61 | 74 | 44.16 | 35.23 | 8.22 | 33.22 | 306 | 60 | Р | Н |
| | | 5463.12 | 52.84 | -15.46 | 68.3 | 42.51 | 35.14 | 8.39 | 33.2 | 306 | 60 | Р | Н |
| | | 5440.08 | 44.32 | -9.68 | 54 | 34.03 | 35.16 | 8.34 | 33.21 | 306 | 60 | Α | Н |
| | * | 5656 | 109.42 | - | - | 99.04 | 34.98 | 8.57 | 33.17 | 306 | 60 | Р | Н |
| 802.11n | | 5656 | 98.72 | - | - | 88.34 | 34.98 | 8.57 | 33.17 | 306 | 60 | Α | Н |
| HT40 | | 5737.48 | 58.32 | -9.98 | 68.3 | 47.99 | 34.91 | 8.59 | 33.17 | 306 | 60 | Р | Н |
| CH 134 | | 5350.16 | 54.18 | -19.82 | 74 | 43.95 | 35.23 | 8.22 | 33.22 | 366 | 0 | Р | V |
| 5670MHz | | 5463.92 | 53.08 | -15.22 | 68.3 | 42.75 | 35.14 | 8.39 | 33.2 | 366 | 0 | Р | V |
| | | 5350.16 | 44.11 | -9.89 | 54 | 33.88 | 35.23 | 8.22 | 33.22 | 366 | 0 | Α | V |
| | * | 5664 | 106.27 | - | - | 95.89 | 34.98 | 8.57 | 33.17 | 366 | 0 | Р | V |
| | | 5664 | 98.11 | - | - | 87.73 | 34.98 | 8.57 | 33.17 | 366 | 0 | Α | V |
| | | 5726.52 | 58.36 | -9.94 | 68.3 | 48.03 | 34.92 | 8.58 | 33.17 | 366 | 0 | Р | V |

Sporton International (Kunshan) Inc.

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Band 3 - 5470~5725MHz WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|-------------|------|-----------|------------|---------------|--------------------|-------------------|--------------------|--------------|-------------|-------------|----------------|---------------|------|
| Ant. 1+2 | | (MHz) | (dBµV/m) | Limit (dB) | Line (dBµV/m) | Level (dBµV) | Factor (dB/m) | Loss (dB) | Factor (dB) | Pos (cm) | Pos (deg) | Avg. (P/A) | |
| 802.11n | | 11020 | 57.22 | -16.78 | 74 | 70.65 | 38.94 | 13.32 | 65.69 | 300 | 124 | Р | Н |
| HT40 | | 11020 | 51.74 | -2.26 | 54 | 65.17 | 38.94 | 13.32 | 65.69 | 300 | 124 | Α | Н |
| CH 102 | | 11020 | 58.43 | -15.57 | 74 | 71.86 | 38.94 | 13.32 | 65.69 | 100 | 360 | Р | V |
| 5510MHz | | 11020 | 52.23 | -1.77 | 54 | 65.66 | 38.94 | 13.32 | 65.69 | 300 | 224 | Α | V |
| 802.11n | | 11100 | 57.01 | -16.99 | 74 | 70.39 | 39 | 13.25 | 65.63 | 100 | 360 | Р | Н |
| HT40 | | 11100 | 52.61 | -1.39 | 54 | 65.99 | 39 | 13.25 | 65.63 | 321 | 244 | Α | Н |
| CH 110 | | 11100 | 57.74 | -16.26 | 74 | 71.12 | 39 | 13.25 | 65.63 | 100 | 360 | Р | V |
| 5550MHz | | 11100 | 51.34 | -2.66 | 54 | 64.72 | 39 | 13.25 | 65.63 | 300 | 214 | Α | V |
| 802.11n | | 11340 | 53.9 | -20.1 | 74 | 67.14 | 39.18 | 13.04 | 65.46 | 300 | 111 | Р | Н |
| HT40 | | 11340 | 51.83 | -2.17 | 54 | 65.07 | 39.18 | 13.04 | 65.46 | 300 | 111 | Α | Н |
| CH 134 | | 11340 | 54.19 | -19.81 | 74 | 67.43 | 39.18 | 13.04 | 65.46 | 300 | 244 | Р | V |
| 5670MHz | | 11340 | 52.27 | -1.73 | 54 | 65.51 | 39.18 | 13.04 | 65.46 | 300 | 244 | Α | ٧ |

Remark

Sporton International (Kunshan) Inc.

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^{1.} No other spurious found.

^{2.} All results are PASS against Peak and Average limit line.

Band 3 - 5470~5725MHz WIFI 802.11ac VHT80 (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|-------------|------|-----------|------------|-----------------|--------------------|-----------------|-----------------|--------------|---------------|---------------|----------------|---------------|------|
| Ant. 1+2 | | (MHz) | (dBµV/m) | Limit (dB) | Line (dBµV/m) | Level (dBµV) | Factor (dB/m) | Loss (dB) | Factor (dB) | Pos (cm) | Pos (deg) | Avg. (P/A) | (H/V |
| | | 5458.32 | 62.41 | -11.59 | 74 | 52.09 | 35.15 | 8.37 | 33.2 | 303 | 60 | Р | Н |
| | | 5460.08 | 61.95 | -6.35 | 68.3 | 51.63 | 35.15 | 8.37 | 33.2 | 303 | 60 | Р | Н |
| | | 5457.68 | 52.34 | -1.66 | 54 | 42.02 | 35.15 | 8.37 | 33.2 | 303 | 60 | Α | Н |
| | * | 5538 | 103.26 | - | - | 92.9 | 35.08 | 8.47 | 33.19 | 303 | 60 | Р | Н |
| 802.11ac | | 5538 | 96.13 | 1 | - | 85.77 | 35.08 | 8.47 | 33.19 | 303 | 60 | Α | Н |
| VHT80 | | 5730.84 | 53.46 | -14.84 | 68.3 | 43.13 | 34.92 | 8.58 | 33.17 | 303 | 60 | Р | Н |
| CH 106 | | 5447.76 | 59.29 | -14.71 | 74 | 48.97 | 35.15 | 8.37 | 33.2 | 396 | 0 | Р | V |
| 5530MHz | | 5465.04 | 60.46 | -7.84 | 68.3 | 50.13 | 35.14 | 8.39 | 33.2 | 396 | 0 | Р | V |
| | | 5445.84 | 47.86 | -6.14 | 54 | 37.54 | 35.15 | 8.37 | 33.2 | 396 | 0 | Α | V |
| | * | 5506 | 100.42 | - | - | 90.08 | 35.11 | 8.43 | 33.2 | 396 | 0 | Р | V |
| | | 5506 | 93 | - | - | 82.66 | 35.11 | 8.43 | 33.2 | 396 | 0 | Α | V |
| | | 5725.1 | 53.66 | -14.64 | 68.3 | 43.33 | 34.92 | 8.58 | 33.17 | 396 | 0 | Р | V |
| | | 5450.64 | 59.64 | -14.36 | 74 | 49.32 | 35.15 | 8.37 | 33.2 | 292 | 60 | Р | Н |
| | | 5467.92 | 64.3 | -4 | 68.3 | 53.97 | 35.14 | 8.39 | 33.2 | 292 | 60 | Р | Н |
| | | 5450.16 | 48.79 | -5.21 | 54 | 38.47 | 35.15 | 8.37 | 33.2 | 292 | 60 | Α | Н |
| | * | 5606 | 106.54 | - | - | 96.14 | 35.03 | 8.55 | 33.18 | 292 | 60 | Р | Н |
| 802.11ac | | 5606 | 99.05 | - | - | 88.65 | 35.03 | 8.55 | 33.18 | 292 | 60 | Α | Н |
| VHT80 | | 5726.04 | 66.49 | -1.81 | 68.3 | 56.16 | 34.92 | 8.58 | 33.17 | 292 | 60 | Р | Н |
| CH 122 | | 5459.28 | 57.45 | -16.55 | 74 | 47.13 | 35.15 | 8.37 | 33.2 | 396 | 0 | Р | V |
| 5610MHz | | 5461.04 | 56.54 | -11.76 | 68.3 | 46.22 | 35.15 | 8.37 | 33.2 | 396 | 0 | Р | V |
| | | 5459.6 | 47.1 | -6.9 | 54 | 36.78 | 35.15 | 8.37 | 33.2 | 396 | 0 | Α | V |
| | * | 5614 | 103.69 | - | - | 93.29 | 35.03 | 8.55 | 33.18 | 396 | 0 | Р | V |
| | | 5614 | 96.19 | - | - | 85.79 | 35.03 | 8.55 | 33.18 | 396 | 0 | Α | V |
| | | 5734.12 | 63.74 | -4.56 | 68.3 | 53.41 | 34.92 | 8.58 | 33.17 | 396 | 0 | Р | V |

Remark

. No other spurious found.

2. All results are PASS against Peak and Average limit line.

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Band 3 5470~5725MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|----------|------|-----------|------------|--------|-----------------|--------|----------|-------|--------|--------|-------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1+2 | | (MHz) | (dBµV/m) | (dB) | ($dB\mu V/m$) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| 802.11ac | | 11055 | 58.48 | -15.52 | 74 | 71.89 | 38.97 | 13.29 | 65.67 | 292 | 305 | Р | Н |
| VHT80 | | 11055 | 48.09 | -5.91 | 54 | 61.5 | 38.97 | 13.29 | 65.67 | 292 | 305 | Α | Н |
| CH 106 | | 11060 | 60.59 | -13.41 | 74 | 73.99 | 38.98 | 13.28 | 65.66 | 164 | 355 | Р | ٧ |
| 5530MHz | | 11060 | 47.86 | -6.14 | 54 | 61.26 | 38.98 | 13.28 | 65.66 | 164 | 355 | Α | ٧ |
| 802.11ac | | 11220 | 63.68 | -10.32 | 74 | 76.99 | 39.09 | 13.15 | 65.55 | 300 | 307 | Р | Н |
| VHT80 | | 11220 | 52.96 | -1.04 | 54 | 66.27 | 39.09 | 13.15 | 65.55 | 300 | 307 | Α | Н |
| CH 122 | | 11220 | 65.67 | -8.33 | 74 | 78.98 | 39.09 | 13.15 | 65.55 | 163 | 348 | Р | ٧ |
| 5610MHz | | 11220 | 52.82 | -1.18 | 54 | 66.13 | 39.09 | 13.15 | 65.55 | 163 | 348 | Α | ٧ |

Remark

. No other spurious found.

2. All results are PASS against Peak and Average limit line.

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Band 3 - Straddle Channel

WIFI 802.11a (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|-------------------|-------|----------------|------------|-------|----------|--------|----------|-------|--------|--------|-------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1+2 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| 222.44 | * | 5716 | 108.6 | - | - | 98.25 | 34.94 | 8.58 | 33.17 | 301 | 58 | Р | Н |
| 802.11a | | 5716 | 101.09 | - | - | 90.74 | 34.94 | 8.58 | 33.17 | 301 | 58 | Α | Н |
| CH 144 5720MHz | * | 5718 | 104.57 | - | - | 94.24 | 34.92 | 8.58 | 33.17 | 397 | 5 | Р | V |
| 3/20WITZ | | 5718 | 96.97 | - | - | 86.64 | 34.92 | 8.58 | 33.17 | 397 | 5 | Α | V |
| Remark | 1. No | o other spurio | us found. | | | | | | | | | • | |

2. All results are PASS against Peak and Average limit line.

Band 3 - Straddle Channel WIFI 802.11a (Harmonic @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|-------------------|------|-----------|----------|--------|----------|--------|----------|-------|--------|--------|-------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1+2 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| | | 11440 | 54.76 | -19.24 | 74 | 67.94 | 39.25 | 12.96 | 65.39 | 300 | 214 | Р | Н |
| 802.11a | | 11440 | 52.47 | -1.53 | 54 | 65.65 | 39.25 | 12.96 | 65.39 | 300 | 214 | Α | Н |
| CH 144 5720MHz | | 11440 | 55.17 | -18.83 | 74 | 68.35 | 39.25 | 12.96 | 65.39 | 100 | 360 | Р | V |
| 31 ZUIVITIZ | | 11440 | 52.03 | -1.97 | 54 | 65.21 | 39.25 | 12.96 | 65.39 | 100 | 360 | Α | V |

Remark 2.

- 1. No other spurious found.
- All results are PASS against Peak and Average limit line.

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Band 3 - Straddle Channel WIFI 802.11n HT20 (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|---------|------|-----------|------------|--------|----------|--------|----------|--------|--------|------|-------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1+2 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| 802.11n | * | 5726 | 109.39 | - | - | 99.06 | 34.92 | 8.58 | 33.17 | 301 | 58 | Р | Н |
| HT20 | | 5726 | 101.47 | - | - | 91.14 | 34.92 | 8.58 | 33.17 | 301 | 58 | Α | Н |
| CH 144 | * | 5714 | 107.97 | - | - | 97.62 | 34.94 | 8.58 | 33.17 | 396 | 3 | Р | V |
| 5720MHz | | 5714 | 99.06 | - | - | 88.71 | 34.94 | 8.58 | 33.17 | 396 | 3 | Α | V |

Remark

- . No other spurious found.
- 2. All results are PASS against Peak and Average limit line.

Band 3 - Straddle Channel WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|---------|------|-----------|------------|--------|----------|--------|----------|--------|--------|--------|-------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | | Avg. | |
| 1+2 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| 802.11n | | 11445 | 57.91 | -16.09 | 74 | 71.09 | 39.25 | 12.96 | 65.39 | 100 | 360 | Р | Н |
| HT20 | | 11445 | 51.09 | -2.91 | 54 | 64.27 | 39.25 | 12.96 | 65.39 | 100 | 360 | Α | Н |
| CH 144 | | 11440 | 56.7 | -17.3 | 74 | 69.88 | 39.25 | 12.96 | 65.39 | 100 | 360 | Р | ٧ |
| 5720MHz | | 11440 | 52.52 | -1.48 | 54 | 65.7 | 39.25 | 12.96 | 65.39 | 300 | 224 | Α | V |

Remark

- 1. No other spurious found.
- 2. All results are PASS against Peak and Average limit line.

Sporton International (Kunshan) Inc.

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Band 3 - Straddle Channel WIFI 802.11n HT40 (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|---------|------|-----------|------------|-------|------------|---------------------|----------|--------|--------|--------|-------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1+2 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dB _µ V) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| 802.11n | * | 5708 | 110.89 | ı | - | 100.54 | 34.94 | 8.58 | 33.17 | 301 | 58 | Р | Н |
| HT40 | | 5708 | 102.64 | ı | - | 92.29 | 34.94 | 8.58 | 33.17 | 301 | 58 | Α | Н |
| CH 142 | * | 5718 | 106.31 | - | - | 95.98 | 34.92 | 8.58 | 33.17 | 396 | 360 | Р | V |
| 5710MHz | | 5718 | 98.18 | ı | - | 87.85 | 34.92 | 8.58 | 33.17 | 396 | 360 | Α | ٧ |

Remark

- 1. No other spurious found.
- 2. All results are PASS against Peak and Average limit line.

Band 3 - Straddle Channel WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|---------|------|-----------|------------|--------|----------|---------------------|----------|--------|--------|--------|-------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | | Avg. | |
| 1+2 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dB _µ V) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| 802.11n | | 11420 | 55 | -19 | 74 | 68.19 | 39.24 | 12.97 | 65.4 | 100 | 360 | Р | Н |
| HT40 | | 11420 | 51.02 | -2.98 | 54 | 64.21 | 39.24 | 12.97 | 65.4 | 100 | 360 | Α | Н |
| CH 142 | | 11420 | 56.05 | -17.95 | 74 | 69.24 | 39.24 | 12.97 | 65.4 | 100 | 360 | Р | V |
| 5710MHz | | 11420 | 52.45 | -1.55 | 54 | 65.64 | 39.24 | 12.97 | 65.4 | 300 | 219 | Α | V |

Remark

- 1. No other spurious found.
- 2. All results are PASS against Peak and Average limit line.

Sporton International (Kunshan) Inc.

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Band 3 - Straddle Channel WIFI 802.11ac VHT80 (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|----------|------|-----------|------------|--------|----------|--------|----------|--------|--------|--------|-------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1+2 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| 802.11ac | * | 5708 | 109.76 | - | - | 99.41 | 34.94 | 8.58 | 33.17 | 300 | 60 | Р | Н |
| VHT80 | | 5708 | 101.62 | - | - | 91.27 | 34.94 | 8.58 | 33.17 | 300 | 60 | Α | Н |
| CH 138 | * | 5676 | 105.82 | - | - | 95.45 | 34.97 | 8.57 | 33.17 | 396 | 360 | Р | ٧ |
| 5690MHz | | 5676 | 98.33 | - | - | 87.96 | 34.97 | 8.57 | 33.17 | 396 | 360 | Α | ٧ |
| | | | | | | | | | | | | 1 | |

Remark

- 1. No other spurious found.
- 2. All results are PASS against Peak and Average limit line.

Band 3 - Straddle Channel WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|----------|------|-----------|----------|--------|-----------------|--------|----------|--------|--------|--------|-------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1+2 | | (MHz) | (dBµV/m) | (dB) | ($dB\mu V/m$) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| 802.11ac | | 11380 | 56.07 | -17.93 | 74 | 69.28 | 39.21 | 13 | 65.42 | 100 | 360 | Р | Н |
| VHT80 | | 11380 | 50.49 | -3.51 | 54 | 63.7 | 39.21 | 13 | 65.42 | 100 | 360 | Α | Н |
| CH 138 | | 11380 | 59.67 | -14.33 | 74 | 72.88 | 39.21 | 13 | 65.42 | 100 | 360 | Р | ٧ |
| 5690MHz | | 11380 | 52.46 | -1.54 | 54 | 65.67 | 39.21 | 13 | 65.42 | 100 | 360 | Α | V |

Remark

- 1. No other spurious found.
- 2. All results are PASS against Peak and Average limit line.

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Emission below 1GHz

WIFI 802.11ac VHT80 (LF @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|-------------------|------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|-------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1+2 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| | | 30 | 22.23 | -17.77 | 40 | 29.03 | 24.5 | 0.61 | 31.91 | - | - | Р | Н |
| | | 171.62 | 23 | -20.5 | 43.5 | 37.75 | 15.46 | 1.33 | 31.54 | - | - | Р | Н |
| | | 263.77 | 31.58 | -14.42 | 46 | 41.78 | 19.19 | 1.76 | 31.15 | - | - | Р | Н |
| | | 726.46 | 34.26 | -11.74 | 46 | 35.11 | 24.91 | 2.69 | 28.45 | - | - | Р | Н |
| 000 44 | | 773.02 | 35.57 | -10.43 | 46 | 35.46 | 25.47 | 2.8 | 28.16 | 100 | 54 | Р | Н |
| 802.11ac VHT80 | | 805.03 | 31.25 | -14.75 | 46 | 30.49 | 25.83 | 2.88 | 27.95 | - | - | Р | Н |
| LF | | 30.97 | 22.13 | -17.87 | 40 | 29.49 | 23.93 | 0.61 | 31.9 | - | - | Р | ٧ |
| | | 171.62 | 22.45 | -21.05 | 43.5 | 37.2 | 15.46 | 1.33 | 31.54 | - | - | Р | ٧ |
| | | 258.92 | 27.05 | -18.95 | 46 | 37.27 | 19.2 | 1.75 | 31.17 | - | - | Р | ٧ |
| | | 365.62 | 24.98 | -21.02 | 46 | 32.94 | 20.72 | 1.94 | 30.62 | - | - | Р | ٧ |
| | | 710.94 | 33.02 | -12.98 | 46 | 34.17 | 24.73 | 2.67 | 28.55 | 100 | 210 | Р | ٧ |
| | | 773.02 | 32.11 | -13.89 | 46 | 32 | 25.47 | 2.8 | 28.16 | - | - | Р | V |
| | | | | | | | | | | | | | |

Remark

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^{1.} No other spurious found.

^{2.} All results are PASS against limit line.

For Beamforming Modes

Band 2 - 5250~5350MHz

WIFI 802.11a (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|------------------|------|-----------|----------|--------|----------|--------|----------|-------|--------|--------|-------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1+2 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| | * | 5322 | 109.37 | - | - | 99.17 | 35.26 | 8.17 | 33.23 | 300 | 55 | Р | Н |
| | | 5322 | 101.58 | - | - | 91.38 | 35.26 | 8.17 | 33.23 | 300 | 55 | Α | Н |
| 000.44 | | 5362.8 | 56.3 | -17.7 | 74 | 46.05 | 35.22 | 8.25 | 33.22 | 300 | 55 | Р | Н |
| 802.11a CH 64 | | 5350.9 | 47.32 | -6.68 | 54 | 37.09 | 35.23 | 8.22 | 33.22 | 300 | 55 | Α | Н |
| 5320MHz | * | 5314 | 110.34 | - | - | 100.14 | 35.26 | 8.17 | 33.23 | 100 | 250 | Р | ٧ |
| 3320WII 12 | | 5314 | 102.89 | - | - | 92.69 | 35.26 | 8.17 | 33.23 | 100 | 250 | Α | ٧ |
| | | 5358.2 | 59.63 | -14.37 | 74 | 49.4 | 35.23 | 8.22 | 33.22 | 100 | 250 | Р | V |
| | | 5353.5 | 47.53 | -6.47 | 54 | 37.3 | 35.23 | 8.22 | 33.22 | 100 | 250 | Α | V |

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Band 2 5250~5350MHz WIFI 802.11a (Harmonic @ 3m)

| WIFI Ant. 1+2 | Note | Frequency (MHz) | Level | Over Limit (dB) | Limit Line (dBµV/m) | Read Level (dBµV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Pos | Peak Avg. (P/A) | |
|---------------------|------|-------------------|-------|-------------------------|-----------------------------|-------------------------|-------------------------------|-----------------------|----------------------------|----------------------|-----|-----------------------|---|
| 802.11a | | 10515 | 65.41 | -2.89 | 68.3 | 80.59 | 38.58 | 12.28 | 66.04 | 255 | 359 | P | Η |
| CH 52 5260MHz | | 10515 | 66.24 | -2.06 | 68.3 | 81.42 | 38.58 | 12.28 | 66.04 | 194 | 113 | Р | V |
| | | 10600.1 | 63.87 | -10.13 | 74 | 78.74 | 38.64 | 12.47 | 65.98 | 279 | 357 | Р | Н |
| 802.11a | | 10600.1 | 51.72 | -2.28 | 54 | 66.59 | 38.64 | 12.47 | 65.98 | 279 | 357 | Α | Н |
| CH 60 5300MHz | | 10600.1 | 64.71 | -9.29 | 74 | 79.58 | 38.64 | 12.47 | 65.98 | 202 | 114 | Р | V |
| 5300WITZ | | 10600.1 | 52.92 | -1.08 | 54 | 67.79 | 38.64 | 12.47 | 65.98 | 202 | 114 | Α | V |
| | | 10640 | 63.71 | -10.29 | 74 | 78.45 | 38.67 | 12.55 | 65.96 | 272 | 356 | Р | Н |
| 802.11a | | 10640 | 50.54 | -3.46 | 54 | 65.28 | 38.67 | 12.55 | 65.96 | 272 | 357 | Α | Н |
| CH 64 | | 10640 | 64.21 | -9.79 | 74 | 78.95 | 38.67 | 12.55 | 65.96 | 199 | 115 | Р | V |
| 5320MHz | | 10640 | 52.21 | -1.79 | 54 | 66.95 | 38.67 | 12.55 | 65.96 | 199 | 115 | Α | ٧ |

Remark

Sporton International (Kunshan) Inc.

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^{1.} No other spurious found.

^{2.} All results are PASS against Peak and Average limit line.

Band 2 5250~5350MHz WIFI 802.11n HT20 (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|---------|------|-----------|----------|--------|------------|--------|----------|--------|--------|--------|-------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1+2 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| | * | 5326 | 108.88 | - | - | 98.68 | 35.26 | 8.17 | 33.23 | 300 | 63 | Р | Н |
| | | 5326 | 101.7 | - | - | 91.5 | 35.26 | 8.17 | 33.23 | 300 | 63 | Α | Н |
| 802.11n | | 5356 | 54.37 | -19.63 | 74 | 44.14 | 35.23 | 8.22 | 33.22 | 300 | 63 | Р | Н |
| HT20 | | 5359.9 | 45.9 | -8.1 | 54 | 35.67 | 35.23 | 8.22 | 33.22 | 300 | 63 | Α | Н |
| CH 64 | * | 5326 | 110.36 | - | - | 100.16 | 35.26 | 8.17 | 33.23 | 397 | 211 | Р | ٧ |
| 5320MHz | | 5326 | 102.13 | - | - | 91.93 | 35.26 | 8.17 | 33.23 | 397 | 211 | Α | V |
| | | 5354.8 | 56.24 | -17.76 | 74 | 46.01 | 35.23 | 8.22 | 33.22 | 397 | 211 | Р | V |
| | | 5354.4 | 47.31 | -6.69 | 54 | 37.08 | 35.23 | 8.22 | 33.22 | 397 | 211 | Α | V |

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Band 2 5250~5350MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|--------------------------|------|-----------|------------|---------------|--------------------|-----------------|--------------------|--------------|-------------|---------------|----------------|---------------|-------|
| Ant. 1+2 | | (MHz) | (dBµV/m) | Limit (dB) | Line (dBµV/m) | Level (dBµV) | Factor (dB/m) | Loss (dB) | Factor (dB) | Pos (cm) | Pos (deg) | Avg. (P/A) | (H/V) |
| 802.11n | | 10520 | 61.84 | -6.46 | 68.3 | 77.02 | 38.58 | 12.28 | 66.04 | 192 | 308 | Р | Н |
| HT20 CH 52 5260MHz | | 10510 | 65.29 | -3.01 | 68.3 | 80.54 | 38.57 | 12.24 | 66.06 | 158 | 14 | Р | V |
| 802.11n | | 10600 | 60.49 | -13.51 | 74 | 75.36 | 38.64 | 12.47 | 65.98 | 162 | 8 | Р | Н |
| HT20 | | 10600 | 51.29 | -2.71 | 54 | 66.16 | 38.64 | 12.47 | 65.98 | 162 | 8 | Α | Н |
| CH 60 | | 10600 | 62.78 | -11.22 | 74 | 77.65 | 38.64 | 12.47 | 65.98 | 162 | 10 | Р | V |
| 5300MHz | | 10600 | 51.31 | -2.69 | 54 | 66.18 | 38.64 | 12.47 | 65.98 | 162 | 10 | Α | V |
| 802.11n | | 10640 | 54.91 | -19.09 | 74 | 69.65 | 38.67 | 12.55 | 65.96 | 100 | 360 | Р | Н |
| HT20 | | 10640 | 52.01 | -1.99 | 54 | 66.75 | 38.67 | 12.55 | 65.96 | 100 | 360 | Α | Н |
| CH 64 | | 10640 | 59.52 | -14.48 | 74 | 74.26 | 38.67 | 12.55 | 65.96 | 100 | 360 | Р | V |
| 5320MHz | | 10640 | 52.1 | -1.9 | 54 | 66.84 | 38.67 | 12.55 | 65.96 | 100 | 360 | Α | V |

Remark

Sporton International (Kunshan) Inc.

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Report No.: FR860502E

Report Version : Rev. 01

^{1.} No other spurious found.

^{2.} All results are PASS against Peak and Average limit line.

Band 2 5250~5350MHz WIFI 802.11n HT40 (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|---------|------|------------|--------------|--------|----------|--------|----------|--------|--------|------|---------|------|-------|
| Ant. | | (NALI -) | / dB::\//m \ | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1+2 | | (MHz) | (dBµV/m) | | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | | (H/V) |
| | | 5123.04 | 53.92 | -20.08 | 74 | 43.78 | 35.41 | 7.99 | 33.26 | 300 | 67 | Р | Н |
| | | 5136.32 | 44.07 | -9.93 | 54 | 33.93 | 35.41 | 7.99 | 33.26 | 300 | 67 | Α | Н |
| | * | 5318 | 106.08 | - | - | 95.88 | 35.26 | 8.17 | 33.23 | 300 | 67 | Р | Н |
| | | 5318 | 98.69 | - | - | 88.49 | 35.26 | 8.17 | 33.23 | 300 | 67 | Α | Н |
| 802.11n | | 5353.5 | 60.53 | -13.47 | 74 | 50.3 | 35.23 | 8.22 | 33.22 | 300 | 67 | Р | Н |
| HT40 | | 5352 | 50.69 | -3.31 | 54 | 40.46 | 35.23 | 8.22 | 33.22 | 300 | 67 | Α | Н |
| CH 62 | | 5124.96 | 54.67 | -19.33 | 74 | 44.53 | 35.41 | 7.99 | 33.26 | 100 | 217 | Р | ٧ |
| 5310MHz | | 5148.48 | 44.57 | -9.43 | 54 | 34.44 | 35.39 | 7.99 | 33.25 | 100 | 217 | Α | V |
| | * | 5296 | 108.9 | - | - | 98.71 | 35.27 | 8.15 | 33.23 | 100 | 217 | Р | ٧ |
| | | 5296 | 100.18 | - | - | 89.99 | 35.27 | 8.15 | 33.23 | 100 | 217 | Α | V |
| | | 5350.6 | 59.52 | -14.48 | 74 | 49.29 | 35.23 | 8.22 | 33.22 | 100 | 217 | Р | V |
| | | 5350.1 | 52.89 | -1.11 | 54 | 42.66 | 35.23 | 8.22 | 33.22 | 100 | 217 | Α | ٧ |

Remark

Sporton International (Kunshan) Inc.

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^{1.} No other spurious found.

^{2.} All results are PASS against Peak and Average limit line.

Band 2 5250~5350MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|---------|------|-----------|------------|--------|------------|--------|----------|--------|--------|------|-------|-------|-------|
| Ant. | | (8411) | (ID)(() | Limit | Line | Level | Factor | Loss | Factor | Pos | | Avg. | |
| 1+2 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| 802.11n | | 10540 | 52.39 | -15.91 | 68.3 | 67.5 | 38.6 | 12.32 | 66.03 | 100 | 360 | Р | Н |
| HT40 | | 10340 | 32.39 | -13.91 | 00.5 | 07.5 | 30.0 | 12.32 | 00.03 | 100 | 300 | | '' |
| CH 54 | | 40540 | 00.4 | 0.0 | 00.0 | 75.04 | 00.0 | 40.00 | 00.00 | 000 | 000 | _ | ., |
| 5270MHz | | 10540 | 60.1 | -8.2 | 68.3 | 75.21 | 38.6 | 12.32 | 66.03 | 300 | 360 | Р | V |
| 802.11n | | 10625 | 59.41 | -14.59 | 74 | 74.21 | 38.66 | 12.51 | 65.97 | 246 | 360 | Р | Н |
| HT40 | | 10625 | 45.41 | -8.59 | 54 | 60.21 | 38.66 | 12.51 | 65.97 | 246 | 360 | Α | Н |
| CH 62 | | 10620 | 61.78 | -12.22 | 74 | 76.58 | 38.66 | 12.51 | 65.97 | 204 | 118 | Р | V |
| 5310MHz | | 10620 | 49.41 | -4.59 | 54 | 64.21 | 38.66 | 12.51 | 65.97 | 204 | 118 | Α | V |

Remark

1. No other spurious found.

Sporton International (Kunshan) Inc.

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^{2.} All results are PASS against Peak and Average limit line.

Band 2 5250~5350MHz WIFI 802.11ac VHT80 (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|-------------|------|-----------|------------|---------------|--------------------|-----------------|-----------------|--------------|---------------|---------------|----------------|---------------|-------|
| Ant. 1+2 | | (MHz) | (dBµV/m) | Limit (dB) | Line (dBµV/m) | Level (dBµV) | Factor (dB/m) | Loss (dB) | Factor (dB) | Pos (cm) | Pos (deg) | Avg. (P/A) | (H/V) |
| | | 5116.32 | 56.18 | -17.82 | 74 | 46.03 | 35.42 | 7.99 | 33.26 | 335 | 71 | Р | Н |
| | | 5124.8 | 45.14 | -8.86 | 54 | 35 | 35.41 | 7.99 | 33.26 | 335 | 71 | Α | Н |
| | * | 5310 | 101.44 | - | - | 91.24 | 35.26 | 8.17 | 33.23 | 335 | 71 | Р | Н |
| | | 5310 | 99.35 | - | - | 89.15 | 35.26 | 8.17 | 33.23 | 335 | 71 | Α | Н |
| 802.11ac | | 5353.4 | 60.64 | -13.36 | 74 | 50.41 | 35.23 | 8.22 | 33.22 | 335 | 71 | Р | Н |
| VHT80 | | 5350.1 | 51.45 | -2.55 | 54 | 41.22 | 35.23 | 8.22 | 33.22 | 335 | 71 | Α | Н |
| CH 58 | | 5143.04 | 61.87 | -12.13 | 74 | 51.74 | 35.39 | 7.99 | 33.25 | 286 | 54 | Р | ٧ |
| 5290MHz | | 5146.24 | 46.13 | -7.87 | 54 | 36 | 35.39 | 7.99 | 33.25 | 286 | 54 | Α | ٧ |
| | * | 5322 | 105.79 | - | - | 95.59 | 35.26 | 8.17 | 33.23 | 286 | 54 | Р | ٧ |
| | | 5322 | 101.81 | - | - | 91.61 | 35.26 | 8.17 | 33.23 | 286 | 54 | Α | ٧ |
| | | 5392.8 | 61.74 | -12.26 | 74 | 51.47 | 35.2 | 8.28 | 33.21 | 286 | 54 | Р | ٧ |
| | | 5352.9 | 52.33 | -1.67 | 54 | 42.1 | 35.23 | 8.22 | 33.22 | 286 | 54 | Α | ٧ |

Remark

Sporton International (Kunshan) Inc.

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Report Version : Rev. 01

No other spurious found.

^{2.} All results are PASS against Peak and Average limit line.

Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|----------|------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|-------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1+2 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| 802.11ac | | 10580 | 47.38 | -20.92 | 68.3 | 62.32 | 38.63 | 12.43 | 66 | 100 | 360 | Р | Н |
| VHT80 | | | | | | | | | | | | | |
| CH 58 | | 10580 | 57.09 | -11.21 | 68.3 | 72.03 | 38.63 | 12.43 | 66 | 300 | 142 | Р | V |
| 5290MHz | | | | | | | | | | | | | |

Remark

1. No other spurious found.

2. All results are PASS against Peak and Average limit line.

Sporton International (Kunshan) Inc.

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Band 3 - 5470~5725MHz

WIFI 802.11a (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|-------------------|------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|-------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1+2 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| | | 5350.16 | 59.89 | -14.11 | 74 | 49.66 | 35.23 | 8.22 | 33.22 | 285 | 73 | Р | Н |
| | | 5468.72 | 52.86 | -15.44 | 68.3 | 42.53 | 35.14 | 8.39 | 33.2 | 285 | 73 | Р | Н |
| | | 5457.52 | 45.25 | -8.75 | 54 | 34.93 | 35.15 | 8.37 | 33.2 | 285 | 73 | Α | Н |
| 000 44 | * | 5502 | 104.13 | - | - | 93.79 | 35.11 | 8.43 | 33.2 | 285 | 73 | Р | Н |
| 802.11a | | 5502 | 97.74 | - | - | 87.4 | 35.11 | 8.43 | 33.2 | 285 | 73 | Α | Н |
| CH 100 5500MHz | | 5452.88 | 54.78 | -19.22 | 74 | 44.46 | 35.15 | 8.37 | 33.2 | 100 | 12 | Р | ٧ |
| 3300WII 12 | | 5462.8 | 53.92 | -14.38 | 68.3 | 43.59 | 35.14 | 8.39 | 33.2 | 100 | 12 | Р | ٧ |
| | | 5457.84 | 47.27 | -6.73 | 54 | 36.95 | 35.15 | 8.37 | 33.2 | 100 | 12 | Α | ٧ |
| | * | 5492 | 105.5 | - | - | 95.17 | 35.12 | 8.41 | 33.2 | 100 | 12 | Р | ٧ |
| | | 5492 | 98.99 | - | - | 88.66 | 35.12 | 8.41 | 33.2 | 100 | 12 | Α | ٧ |
| | * | 5702 | 101.61 | - | - | 91.26 | 34.94 | 8.58 | 33.17 | 298 | 68 | Р | Н |
| | | 5702 | 93.49 | - | - | 83.14 | 34.94 | 8.58 | 33.17 | 298 | 68 | Α | Н |
| 802.11a | | 5759.32 | 53.29 | -15.01 | 68.3 | 42.98 | 34.89 | 8.59 | 33.17 | 298 | 68 | Р | Н |
| CH 140 5700MHz | * | 5698 | 105.07 | - | - | 94.72 | 34.95 | 8.57 | 33.17 | 100 | 62 | Р | V |
| 37 UUIVIF12 | | 5698 | 97.17 | - | - | 86.82 | 34.95 | 8.57 | 33.17 | 100 | 62 | Α | V |
| | | 5741.16 | 55.18 | -13.12 | 68.3 | 44.85 | 34.91 | 8.59 | 33.17 | 100 | 62 | Р | V |

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Band 3 - 5470~5725MHz WIFI 802.11a (Harmonic @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | |
|-------------------|------|-----------|------------|---------------|--------------------|-----------------|-----------------|--------------|---------------|------------|----------------|---------------|---|
| Ant. 1+2 | | (MHz) | (dBµV/m) | Limit (dB) | Line (dBµV/m) | Level (dBµV) | Factor (dB/m) | Loss (dB) | Factor (dB) | Pos (cm) | Pos (deg) | Avg. (P/A) | |
| 000.44 | | 11005 | 62.98 | -11.02 | 74 | 76.41 | 38.94 | 13.32 | 65.69 | 262 | 358 | Р | Н |
| 802.11a | | 11005 | 50.96 | -3.04 | 54 | 64.39 | 38.94 | 13.32 | 65.69 | 262 | 358 | Α | Н |
| CH 100 5500MHz | | 10995 | 64.04 | -9.96 | 74 | 77.47 | 38.93 | 13.34 | 65.7 | 199 | 120 | Р | V |
| SSUUIVINZ | | 10995 | 52.15 | -1.85 | 54 | 65.58 | 38.93 | 13.34 | 65.7 | 199 | 120 | Α | V |
| | | 11165 | 64.07 | -9.93 | 74 | 77.41 | 39.05 | 13.19 | 65.58 | 266 | 352 | Р | Н |
| 802.11a | | 11165 | 52.11 | -1.89 | 54 | 65.45 | 39.05 | 13.19 | 65.58 | 266 | 352 | Α | Н |
| CH 116 5580MHz | | 11165 | 64.41 | -9.59 | 74 | 77.75 | 39.05 | 13.19 | 65.58 | 197 | 119 | Р | V |
| 336UWITI2 | | 11165 | 52.96 | -1.04 | 54 | 66.3 | 39.05 | 13.19 | 65.58 | 197 | 119 | Α | V |
| | | 11400 | 60.25 | -13.75 | 74 | 73.44 | 39.23 | 12.99 | 65.41 | 329 | 237 | Р | Н |
| 802.11a | | 11400 | 48.92 | -5.08 | 54 | 62.11 | 39.23 | 12.99 | 65.41 | 329 | 237 | Α | Н |
| CH 140 | | 11405 | 66.65 | -7.35 | 74 | 79.84 | 39.23 | 12.99 | 65.41 | 100 | 0 | Р | V |
| 5700MHz | | 11405 | 52.22 | -1.78 | 54 | 65.41 | 39.23 | 12.99 | 65.41 | 314 | 7 | Α | V |

Remark

Sporton International (Kunshan) Inc.

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Report Version : Rev. 01

^{1.} No other spurious found.

^{2.} All results are PASS against Peak and Average limit line.

Band 3 - 5470~5725MHz WIFI 802.11n HT20 (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|---------|------|------------|------------|--------|------------|--------|----------|--------|--------|------|-------|-------|-------|
| Ant. | | (BALL -) | (dD-3//) | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | (1100 |
| 1+2 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | | (P/A) | |
| | | 5453.04 | 53.36 | -20.64 | 74 | 43.04 | 35.15 | 8.37 | 33.2 | 298 | 74 | Р | Н |
| | | 5465.36 | 52.3 | -16 | 68.3 | 41.97 | 35.14 | 8.39 | 33.2 | 298 | 74 | Р | Н |
| | | 5452.4 | 45.22 | -8.78 | 54 | 34.9 | 35.15 | 8.37 | 33.2 | 298 | 74 | Α | Н |
| 802.11n | * | 5506 | 102.36 | - | - | 92.02 | 35.11 | 8.43 | 33.2 | 298 | 74 | Р | Н |
| HT20 | | 5506 | 95.39 | - | - | 85.05 | 35.11 | 8.43 | 33.2 | 298 | 74 | Α | Н |
| CH 100 | | 5452.08 | 54.1 | -19.9 | 74 | 43.78 | 35.15 | 8.37 | 33.2 | 397 | 211 | Р | ٧ |
| 5500MHz | | 5461.2 | 54.35 | -13.95 | 68.3 | 44.03 | 35.15 | 8.37 | 33.2 | 397 | 211 | Р | V |
| | | 5459.44 | 45.38 | -8.62 | 54 | 35.06 | 35.15 | 8.37 | 33.2 | 397 | 211 | Α | V |
| | * | 5504 | 106.28 | - | - | 95.94 | 35.11 | 8.43 | 33.2 | 397 | 211 | Р | V |
| | | 5504 | 99.49 | - | - | 89.15 | 35.11 | 8.43 | 33.2 | 397 | 211 | Α | V |
| | * | 5698 | 102.67 | - | - | 92.32 | 34.95 | 8.57 | 33.17 | 298 | 74 | Р | Н |
| 802.11n | | 5698 | 94.22 | - | - | 83.87 | 34.95 | 8.57 | 33.17 | 298 | 74 | Α | Н |
| HT20 | | 5739.64 | 53.08 | -15.22 | 68.3 | 42.75 | 34.91 | 8.59 | 33.17 | 298 | 74 | Р | Н |
| CH 140 | * | 5702 | 105.95 | - | - | 95.6 | 34.94 | 8.58 | 33.17 | 257 | 53 | Р | ٧ |
| 5700MHz | | 5702 | 98.13 | - | - | 87.78 | 34.94 | 8.58 | 33.17 | 257 | 53 | Α | ٧ |
| | | 5740.04 | 54.23 | -14.07 | 68.3 | 43.9 | 34.91 | 8.59 | 33.17 | 257 | 53 | Р | V |

Sporton International (Kunshan) Inc.

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Band 3 - 5470~5725MHz WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|-------------|------|-----------|------------|---------------|--------------------|-----------------|-----------------|--------------|-------------|---------------|----------------|---------------|------|
| Ant. 1+2 | | (MHz) | (dBµV/m) | Limit (dB) | Line (dBµV/m) | Level (dBµV) | Factor (dB/m) | Loss (dB) | Factor (dB) | Pos (cm) | Pos (deg) | Avg. (P/A) | |
| 802.11n | | 11000 | 54.44 | -19.56 | 74 | 67.87 | 38.93 | 13.34 | 65.7 | 100 | 360 | Р | Н |
| HT20 | | 11000 | 47.57 | -6.43 | 54 | 61 | 38.93 | 13.34 | 65.7 | 100 | 360 | Α | Н |
| CH 100 | | 11005 | 58.36 | -15.64 | 74 | 71.79 | 38.94 | 13.32 | 65.69 | 100 | 360 | Р | V |
| 5500MHz | | 11005 | 52.63 | -1.37 | 54 | 66.06 | 38.94 | 13.32 | 65.69 | 205 | 127 | Α | V |
| 802.11n | | 11160 | 53.81 | -20.19 | 74 | 67.15 | 39.05 | 13.19 | 65.58 | 100 | 360 | Р | Н |
| HT20 | | 11160 | 46.88 | -7.12 | 54 | 60.22 | 39.05 | 13.19 | 65.58 | 100 | 360 | Α | Н |
| CH 116 | | 11165 | 56.48 | -17.52 | 74 | 69.82 | 39.05 | 13.19 | 65.58 | 100 | 360 | Р | V |
| 5580MHz | | 11165 | 52.3 | -1.7 | 54 | 65.64 | 39.05 | 13.19 | 65.58 | 199 | 165 | Α | V |
| 802.11n | | 11400 | 53.26 | -20.74 | 74 | 66.45 | 39.23 | 12.99 | 65.41 | 100 | 360 | Р | Н |
| HT20 | | 11400 | 46.01 | -7.99 | 54 | 59.2 | 39.23 | 12.99 | 65.41 | 100 | 360 | Α | Н |
| CH 140 | | 11400 | 56.8 | -17.2 | 74 | 69.99 | 39.23 | 12.99 | 65.41 | 200 | 124 | Р | V |
| 5700MHz | | 11400 | 52.04 | -1.96 | 54 | 65.23 | 39.23 | 12.99 | 65.41 | 200 | 124 | Α | V |

Remark

Sporton International (Kunshan) Inc.

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^{1.} No other spurious found.

^{2.} All results are PASS against Peak and Average limit line.

Band 3 - 5470~5725MHz WIFI 802.11n HT40 (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|-------------|------|-----------|------------|---------------|--------------------|-------------------|-----------------|--------------|-------------|---------------|----------------|---------------|------|
| Ant. 1+2 | | (MHz) | (dBµV/m) | Limit (dB) | Line (dBµV/m) | Level (dBµV) | Factor (dB/m) | Loss (dB) | Factor (dB) | Pos (cm) | Pos (deg) | Avg. (P/A) | |
| | | 5356.56 | 59.89 | -14.11 | 74 | 49.66 | 35.23 | 8.22 | 33.22 | 397 | 79 | Р | Н |
| | | 5461.68 | 53.48 | -14.82 | 68.3 | 43.16 | 35.15 | 8.37 | 33.2 | 397 | 79 | Р | Н |
| | | 5459.76 | 45.46 | -8.54 | 54 | 35.14 | 35.15 | 8.37 | 33.2 | 397 | 79 | Α | Н |
| | * | 5498 | 103.17 | - | - | 92.83 | 35.11 | 8.43 | 33.2 | 397 | 79 | Р | Н |
| 802.11n | | 5498 | 97.11 | - | - | 86.77 | 35.11 | 8.43 | 33.2 | 397 | 79 | Α | Н |
| HT40 | | 5751.32 | 52.67 | -15.63 | 68.3 | 42.34 | 34.91 | 8.59 | 33.17 | 397 | 79 | Р | Н |
| CH 102 | | 5440.72 | 54.08 | -19.92 | 74 | 43.79 | 35.16 | 8.34 | 33.21 | 301 | 194 | Р | V |
| 5510MHz | | 5469.2 | 58.22 | -10.08 | 68.3 | 47.89 | 35.14 | 8.39 | 33.2 | 301 | 194 | Р | V |
| | | 5429.84 | 44.7 | -9.3 | 54 | 34.41 | 35.16 | 8.34 | 33.21 | 301 | 194 | Α | V |
| | * | 5508 | 105.06 | - | - | 94.72 | 35.11 | 8.43 | 33.2 | 301 | 194 | Р | V |
| | | 5508 | 95.08 | - | - | 84.74 | 35.11 | 8.43 | 33.2 | 301 | 194 | Α | V |
| | | 5765 | 52.99 | -15.31 | 68.3 | 42.68 | 34.89 | 8.59 | 33.17 | 301 | 194 | Р | V |
| | | 5422.64 | 53.25 | -20.75 | 74 | 42.96 | 35.18 | 8.32 | 33.21 | 305 | 68 | Р | Н |
| | | 5462.8 | 51.7 | -16.6 | 68.3 | 41.37 | 35.14 | 8.39 | 33.2 | 305 | 68 | Р | Н |
| | | 5352.56 | 43.41 | -10.59 | 54 | 33.18 | 35.23 | 8.22 | 33.22 | 305 | 68 | Α | Н |
| | * | 5674 | 101.15 | - | - | 90.78 | 34.97 | 8.57 | 33.17 | 305 | 68 | Р | Н |
| 802.11n | | 5674 | 92.13 | - | - | 81.76 | 34.97 | 8.57 | 33.17 | 305 | 68 | Α | Н |
| HT40 | | 5751.48 | 52.67 | -15.63 | 68.3 | 42.34 | 34.91 | 8.59 | 33.17 | 305 | 68 | Р | Н |
| CH 134 | | 5368.56 | 56.76 | -17.24 | 74 | 46.51 | 35.22 | 8.25 | 33.22 | 316 | 210 | Р | V |
| 5670MHz | | 5464.56 | 52.37 | -15.93 | 68.3 | 42.04 | 35.14 | 8.39 | 33.2 | 316 | 210 | Р | V |
| | | 5350 | 45.9 | -8.1 | 54 | 35.67 | 35.23 | 8.22 | 33.22 | 316 | 210 | Α | V |
| | * | 5664 | 103.61 | - | - | 93.23 | 34.98 | 8.57 | 33.17 | 316 | 210 | Р | V |
| | | 5664 | 97.04 | - | - | 86.66 | 34.98 | 8.57 | 33.17 | 316 | 210 | Α | V |
| | | 5727.16 | 55.08 | -13.22 | 68.3 | 44.75 | 34.92 | 8.58 | 33.17 | 316 | 210 | Р | V |

Sporton International (Kunshan) Inc.

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Report Issued Date : Nov. 06, 2018
Report Version : Rev. 01

Report No. : FR860502E

Band 3 - 5470~5725MHz WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|-------------|------|-----------|------------|--------------|--------------------|-------------------|-----------------|--------------|-------------|---------------|----------------|---------------|------|
| Ant. 1+2 | | (MHz) | (dBµV/m) | Limit (dB) | Line (dBµV/m) | Level (dBµV) | Factor (dB/m) | Loss (dB) | Factor (dB) | Pos (cm) | Pos (deg) | Avg. (P/A) | |
| 802.11n | | 11025 | 61.47 | -12.53 | 74 | 74.89 | 38.95 | 13.31 | 65.68 | 262 | 360 | Р | Н |
| HT40 | | 11025 | 51.1 | -2.9 | 54 | 64.52 | 38.95 | 13.31 | 65.68 | 262 | 360 | Α | Н |
| CH 102 | | 11020 | 63.07 | -10.93 | 74 | 76.5 | 38.94 | 13.32 | 65.69 | 206 | 118 | Р | ٧ |
| 5510MHz | | 11020 | 52.32 | -1.68 | 54 | 65.75 | 38.94 | 13.32 | 65.69 | 206 | 118 | Α | ٧ |
| 802.11n | | 11105 | 60.16 | -13.84 | 74 | 73.54 | 39 | 13.25 | 65.63 | 253 | 355 | Р | Н |
| HT40 | | 11105 | 51.17 | -2.83 | 54 | 64.55 | 39 | 13.25 | 65.63 | 253 | 355 | Α | Н |
| CH 110 | | 11100 | 59.47 | -14.53 | 74 | 72.85 | 39 | 13.25 | 65.63 | 197 | 118 | Р | ٧ |
| 5550MHz | | 11100 | 52.37 | -1.63 | 54 | 65.75 | 39 | 13.25 | 65.63 | 197 | 118 | Α | ٧ |
| 802.11n | | 11335 | 57.54 | -16.46 | 74 | 70.78 | 39.18 | 13.04 | 65.46 | 310 | 219 | Р | Н |
| HT40 | | 11335 | 50.76 | -3.24 | 54 | 64 | 39.18 | 13.04 | 65.46 | 310 | 219 | Α | Н |
| CH 134 | | 11335 | 65.21 | -8.79 | 74 | 78.45 | 39.18 | 13.04 | 65.46 | 201 | 120 | Р | ٧ |
| 5670MHz | | 11335 | 52.75 | -1.25 | 54 | 65.99 | 39.18 | 13.04 | 65.46 | 201 | 120 | Α | V |

Remark

Sporton International (Kunshan) Inc.

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^{1.} No other spurious found.

^{2.} All results are PASS against Peak and Average limit line.

Band 3 - 5470~5725MHz WIFI 802.11ac VHT80 (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|-------------|------|-----------|--|---------------|-----------------------|-----------------|-----------------|--------------|-------------|-------------|----------------|-------|-------|
| Ant. 1+2 | | (MHz) | (dBµV/m) | Limit (dB) | Line (dBµV/m) | Level (dBµV) | Factor (dB/m) | Loss (dB) | Factor (dB) | Pos | Pos (deg) | Avg. | (H/\/ |
| 1+2 | | 5459.92 | (а Б µ <i>V</i> /III) 64.54 | -9.46 | <u>(авµv/m)</u> 74 | 54.22 | 35.15 | 8.37 | 33.2 | (cm) 396 | 73 | (P/A) | Н |
| | | 5462.32 | 64.48 | -3.82 | 68.3 | 54.16 | 35.15 | 8.37 | 33.2 | 396 | 73 | P | Н |
| | | 5457.36 | 49.05 | -4.95 | 54 | 38.73 | 35.15 | 8.37 | 33.2 | 396 | 73 | A | Н |
| | * | 5514 | 102.06 | - | - | 91.71 | 35.09 | 8.45 | 33.19 | 396 | 73 | P | Н |
| 000 11 | | 5514 | 97.94 | _ | - | 87.59 | 35.09 | 8.45 | 33.19 | 396 | 73 | A | Н |
| 802.11ac | | | | | - | | | | | | | | |
| VHT80 | | 5743.88 | 52.64 | -15.66 | | 42.31 | 34.91 | 8.59 | 33.17 | 396 | 73 | Р | Н |
| CH 106 | | 5441.52 | 64.82 | -9.18 | 74 | 54.53 | 35.16 | 8.34 | 33.21 | 272 | 44 | Р | V |
| 5530MHz | | 5469.36 | 60 | -8.3 | 68.3 | 49.67 | 35.14 | 8.39 | 33.2 | 272 | 44 | Р | V |
| | | 5457.04 | 51.96 | -2.04 | 54 | 41.64 | 35.15 | 8.37 | 33.2 | 272 | 44 | Α | V |
| | * | 5516 | 104.82 | - | - | 94.47 | 35.09 | 8.45 | 33.19 | 272 | 44 | Р | V |
| | | 5516 | 101.42 | - | - | 91.07 | 35.09 | 8.45 | 33.19 | 272 | 44 | Α | V |
| | | 5741.08 | 52.87 | -15.43 | 68.3 | 42.54 | 34.91 | 8.59 | 33.17 | 272 | 44 | Р | V |
| | | 5433.52 | 54.41 | -19.59 | 74 | 44.12 | 35.16 | 8.34 | 33.21 | 396 | 73 | Р | Н |
| | | 5460.4 | 53.29 | -15.01 | 68.3 | 42.97 | 35.15 | 8.37 | 33.2 | 396 | 73 | Р | Н |
| | | 5452.56 | 44.72 | -9.28 | 54 | 34.4 | 35.15 | 8.37 | 33.2 | 396 | 73 | Α | Н |
| | * | 5580 | 102.28 | - | - | 91.9 | 35.05 | 8.51 | 33.18 | 396 | 73 | Р | Н |
| 802.11ac | | 5580 | 95.04 | - | - | 84.66 | 35.05 | 8.51 | 33.18 | 396 | 73 | Α | Н |
| VHT80 | | 5748.44 | 53.11 | -15.19 | 68.3 | 42.78 | 34.91 | 8.59 | 33.17 | 396 | 73 | Р | Н |
| CH 122 | | 5385.68 | 54.71 | -19.29 | 74 | 44.44 | 35.2 | 8.28 | 33.21 | 248 | 59 | Р | V |
| 5610MHz | | 5466.8 | 54.07 | -14.23 | 68.3 | 43.74 | 35.14 | 8.39 | 33.2 | 248 | 59 | Р | V |
| | | 5459.6 | 46.39 | -7.61 | 54 | 36.07 | 35.15 | 8.37 | 33.2 | 248 | 59 | Α | V |
| | * | 5612 | 102.87 | - | - | 92.47 | 35.03 | 8.55 | 33.18 | 248 | 59 | Р | V |
| | | 5612 | 98.34 | - | - | 87.94 | 35.03 | 8.55 | 33.18 | 248 | 59 | Α | V |
| | | 5756.92 | 54.89 | -13.41 | 68.3 | 44.58 | 34.89 | 8.59 | 33.17 | 248 | 59 | Р | V |

Remark

I. No other spurious found.

2. All results are PASS against Peak and Average limit line.

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Band 3 5470~5725MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|-------------------|------|-----------|------------|-----------------|-----------------------|-----------------|---------|--------------|---------------|---------------|----------------|------|------|
| Ant. 1+2 | | (MHz) | (dBµV/m) | Limit (dB) | Line (dBµV/m) | Level (dBµV) | Factor | Loss (dB) | Factor (dB) | Pos (cm) | Pos (deg) | Avg. | |
| 802.11ac | | 11060 | 49.13 | -24.87 | <u>(αβμν/π)</u> 74 | 62.53 | 38.98 | 13.28 | 65.66 | 100 | 360 | P | H |
| VHT80 | | 11060 | 59.19 | -14.81 | 74 | 72.59 | 38.98 | 13.28 | 65.66 | 299 | 117 | Р | V |
| CH 106 5530MHz | | 11060 | 52.91 | -1.09 | 54 | 66.31 | 38.98 | 13.28 | 65.66 | 299 | 117 | Α | V |
| 802.11ac | | 11220 | 47.81 | -26.19 | 74 | 61.12 | 39.09 | 13.15 | 65.55 | 100 | 360 | Р | Н |
| VHT80 | | 11220 | 54.54 | -19.46 | 74 | 67.85 | 39.09 | 13.15 | 65.55 | 300 | 95 | Р | V |
| CH 122 5610MHz | | 11220 | 52.23 | -1.77 | 54 | 65.54 | 39.09 | 13.15 | 65.55 | 300 | 95 | А | V |

Remark

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I. No other spurious found.

^{2.} All results are PASS against Peak and Average limit line.

Band 3 - Straddle Channel

WIFI 802.11n HT20 (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|---------|------|----------------|------------|-------|----------|--------|----------|--------|--------|--------|---------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1+2 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| 802.11n | | 5722 | 105.29 | - | - | 92.97 | 34.77 | 8.61 | 31.06 | 276 | 291 | Р | Н |
| HT20 | | 5722 | 97.61 | - | - | 85.29 | 34.77 | 8.61 | 31.06 | 276 | 291 | Α | Н |
| CH 144 | | 5718 | 107.79 | - | - | 95.47 | 34.77 | 8.61 | 31.06 | 290 | 212 | Р | V |
| 5720MHz | | 5718 | 100.02 | - | - | 87.7 | 34.77 | 8.61 | 31.06 | 290 | 212 | Α | V |
| | | | . (1 | | | | | | | | | | 1 |
| Remark | | o other spurio | | | | | | | | | | | |

2. All results are PASS against Peak and Average limit line.

Band 3 - Straddle Channel

WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|---------|------|-----------|----------|--------|------------|--------|----------|-------|--------|--------|-------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1+2 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| 802.11n | | 11440 | 61.39 | -12.61 | 74 | 76.05 | 38.03 | 12.71 | 65.4 | 246 | 172 | Р | Н |
| HT20 | | 11440 | 50.93 | -3.07 | 54 | 65.59 | 38.03 | 12.71 | 65.4 | 246 | 172 | Α | Н |
| CH 144 | | 11440 | 63.19 | -10.81 | 74 | 77.85 | 38.03 | 12.71 | 65.4 | 256 | 187 | Р | ٧ |
| 5720MHz | | 11440 | 52.23 | -1.77 | 54 | 66.89 | 38.03 | 12.71 | 65.4 | 256 | 187 | Α | V |

Remark

No other spurious found.

All results are PASS against Peak and Average limit line.

Sporton International (Kunshan) Inc.

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Band 3 - Straddle Channel WIFI 802.11n HT40 (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|---------|------|-----------|------------|-------|------------|---------------------|----------|--------|--------|--------|-------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1+2 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dB _µ V) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| 802.11n | | 5718 | 103.28 | ı | - | 90.96 | 34.77 | 8.61 | 31.06 | 300 | 186 | Р | Н |
| HT40 | | 5718 | 96.16 | 1 | - | 83.84 | 34.77 | 8.61 | 31.06 | 300 | 186 | Α | Н |
| CH 142 | | 5714 | 106.42 | - | - | 94.14 | 34.73 | 8.61 | 31.06 | 246 | 236 | Р | ٧ |
| 5710MHz | | 5714 | 99.54 | - | - | 87.26 | 34.73 | 8.61 | 31.06 | 246 | 236 | Α | V |

Remark

- 1. No other spurious found.
- 2. All results are PASS against Peak and Average limit line.

Band 3 - Straddle Channel WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|---------|------|-----------|------------|--------|------------|---------------------|----------|--------|--------|------|-------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | | Avg. | |
| 1+2 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dB _µ V) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| 802.11n | | 11440 | 53.34 | -20.66 | 74 | 68 | 38.03 | 12.71 | 65.4 | 100 | 360 | Р | Н |
| HT40 | | 11440 | 51.18 | -2.82 | 54 | 65.84 | 38.03 | 12.71 | 65.4 | 302 | 43 | Α | Н |
| CH 142 | | 11440 | 58.35 | -15.65 | 74 | 73.01 | 38.03 | 12.71 | 65.4 | 300 | 0 | Р | ٧ |
| 5710MHz | | 11440 | 52.68 | -1.32 | 54 | 67.34 | 38.03 | 12.71 | 65.4 | 307 | 190 | Α | V |

Remark

- I. No other spurious found.
- 2. All results are PASS against Peak and Average limit line.

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Band 3 - Straddle Channel WIFI 802.11ac VHT80 (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|----------|------|------------------|------------|--------|------------|--------|----------|--------|--------|------|-------|-------|-------|
| Ant. | | (54 11) | (ID)(() | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1+2 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| 802.11ac | | 5688 | 98.76 | - | - | 88.41 | 34.95 | 8.57 | 33.17 | 304 | 89 | Р | Н |
| VHT80 | | 5688 | 91.11 | - | - | 80.76 | 34.95 | 8.57 | 33.17 | 304 | 89 | Α | Н |
| CH 138 | | 5686 | 101.95 | - | - | 91.6 | 34.95 | 8.57 | 33.17 | 300 | 210 | Р | ٧ |
| 5690MHz | | 5686 | 95.42 | - | - | 85.07 | 34.95 | 8.57 | 33.17 | 300 | 210 | Α | V |

Remark

- 1. No other spurious found.
- 2. All results are PASS against Peak and Average limit line.

Band 3 - Straddle Channel WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|-------------------|------|-----------|------------|--------|------------|--------|----------|--------|--------|--------|-------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1+2 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| 802.11ac | | 11380 | 47.1 | -26.9 | 74 | 60.31 | 39.21 | 13 | 65.42 | 100 | 360 | Р | Н |
| VHT80 | | 11380 | 55.13 | -18.87 | 74 | 68.34 | 39.21 | 13 | 65.42 | 300 | 0 | Р | V |
| CH 138 5690MHz | | 11380 | 52.17 | -1.83 | 54 | 65.38 | 39.21 | 13 | 65.42 | 300 | 10 | Α | V |

Remark

- . No other spurious found.
- 2. All results are PASS against Peak and Average limit line.

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Emission below 1GHz

WIFI 802.11a (LF @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|---------|------|-----------|----------|--------|----------|--------|----------|-------|--------|--------|-------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1+2 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| | | 30 | 22.21 | -17.79 | 40 | 29.01 | 24.5 | 0.61 | 31.91 | - | - | Р | Н |
| | | 171.62 | 21.54 | -21.96 | 43.5 | 36.29 | 15.46 | 1.33 | 31.54 | - | - | Р | Н |
| | | 264.74 | 30.2 | -15.8 | 46 | 40.42 | 19.16 | 1.76 | 31.14 | - | - | Р | Н |
| | | 710.94 | 35.08 | -10.92 | 46 | 36.23 | 24.73 | 2.67 | 28.55 | - | - | Р | Н |
| | | 726.46 | 34.15 | -11.85 | 46 | 35 | 24.91 | 2.69 | 28.45 | - | - | Р | Н |
| 802.11a | | 773.02 | 36 | -10 | 46 | 35.89 | 25.47 | 2.8 | 28.16 | 100 | 23 | Р | Н |
| LF | | 30 | 22.65 | -17.35 | 40 | 29.45 | 24.5 | 0.61 | 31.91 | - | - | Р | V |
| | | 171.62 | 20.82 | -22.68 | 43.5 | 35.57 | 15.46 | 1.33 | 31.54 | - | - | Р | V |
| | | 219.15 | 21.96 | -24.04 | 46 | 36.62 | 15.11 | 1.56 | 31.33 | - | - | Р | ٧ |
| | | 262.8 | 28.93 | -17.07 | 46 | 39.11 | 19.21 | 1.76 | 31.15 | - | - | Р | ٧ |
| | | 726.46 | 32.99 | -13.01 | 46 | 33.84 | 24.91 | 2.69 | 28.45 | 100 | 137 | Р | V |
| | | 773.02 | 32.29 | -13.71 | 46 | 32.18 | 25.47 | 2.8 | 28.16 | - | - | Р | ٧ |

Remark

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Report No.: FR860502E

Report Template No.: BU5-FR15EWL AC MA Version 2.0

Report Version

^{1.} No other spurious found.

^{2.} All results are PASS against limit line.

Note symbol

| * | Fundamental Frequency which can be ignored. However, the level of any |
|-----|---|
| | unwanted emissions shall not exceed the level of the fundamental frequency. |
| ! | Test result is over limit line. |
| P/A | Peak or Average |
| H/V | Horizontal or Vertical |

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A calculation example for radiated spurious emission is shown as below:

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| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|---------|------|-----------|------------|--------|----------|--------|----------|--------|--------|--------|-------|-------|-------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1 | | (MHz) | (dBµV/m) | (dB) | (dBµV/m) | (dBµV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| 802.11b | | 2390 | 55.45 | -18.55 | 74 | 54.51 | 32.22 | 4.58 | 35.86 | 103 | 308 | Р | Н |
| CH 01 | | | | | | | | | | | | | |
| 2412MHz | | 2390 | 43.54 | -10.46 | 54 | 42.6 | 32.22 | 4.58 | 35.86 | 103 | 308 | Α | Н |

1. Level($dB\mu V/m$) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dB μ V/m) – Limit Line(dB μ V/m)

For Peak Limit @ 2390MHz:

- 1. Level(dBµV/m)
- = Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) Preamp Factor(dB)
- $= 32.22(dB/m) + 4.58(dB) + 54.51(dB\mu V) 35.86 (dB)$
- $= 55.45 (dB\mu V/m)$
- 2. Over Limit(dB)
- = Level(dBµV/m) Limit Line(dBµV/m)
- $= 55.45(dB\mu V/m) 74(dB\mu V/m)$
- = -18.55(dB)

For Average Limit @ 2390MHz:

- Level(dBµV/m)
- = Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBµV) Preamp Factor(dB)
- $= 32.22(dB/m) + 4.58(dB) + 42.6(dB\mu V) 35.86 (dB)$
- $= 43.54 (dB\mu V/m)$
- 2. Over Limit(dB)
- = Level($dB\mu V/m$) Limit Line($dB\mu V/m$)
- $= 43.54(dB\mu V/m) 54(dB\mu V/m)$
- = -10.46(dB)

Both peak and average measured complies with the limit line, so test result is "PASS".

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Appendix D. Duty Cycle Plots

For CDD Modes

| Antenna | Band | Duty Cycle(%) | T(ms) | 1/T(kHz) | VBW Setting |
|---------|----------------|---------------|-------|----------|-------------|
| 1 | 802.11a | 97.22 | 2.029 | 0.493 | 0.51KHz |
| 1 | 802.11n HT20 | 98.84 | - | - | 10Hz |
| 1 | 802.11n HT40 | 97.66 | 2.420 | 0.413 | 0.43KHz |
| 1 | 802.11ac VHT80 | 94.58 | 1.138 | 0.879 | 0.91KHz |
| 1+2 | 802.11a | 97.22 | 2.029 | 0.493 | 0.51KHz |
| 1+2 | 802.11n HT20 | 98.85 | - | - | 10Hz |
| 1+2 | 802.11n HT40 | 97.07 | 2.406 | 0.416 | 0.43KHz |
| 1+2 | 802.11ac VHT80 | 94.55 | 1.130 | 0.885 | 0.91KHz |

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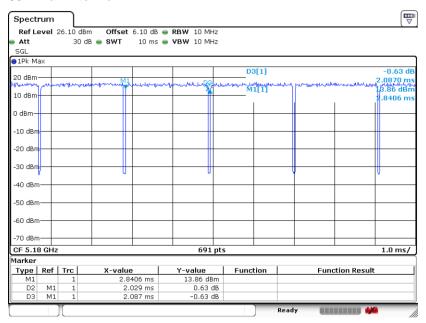
Report No.: FR860502E

Report Version : Rev. 01
Report Template No.: BU5-FR15EWL AC MA Version 2.0

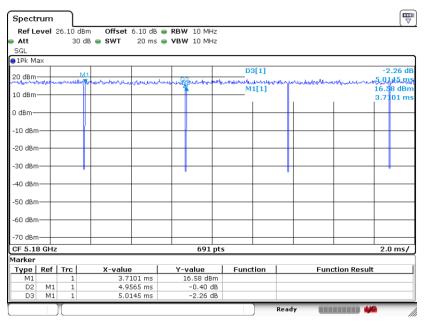
SPORTON LAB.

Report No.: FR860502E

802.11a Antenna 1



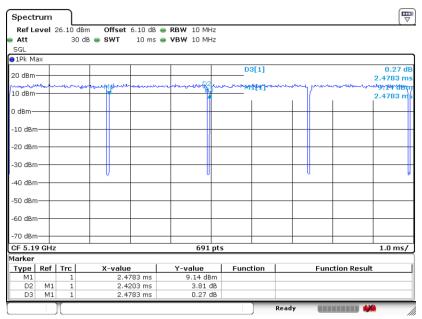
802.11n HT20 Antenna 1



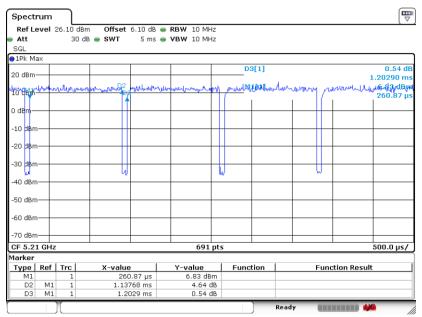
Sporton International (Kunshan) Inc.

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802.11n HT40 Antenna 1



802.11ac VHT80 Antenna 1



Sporton International (Kunshan) Inc.

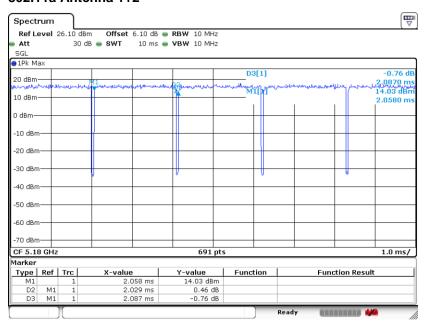
TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: 2AG7G-A2A

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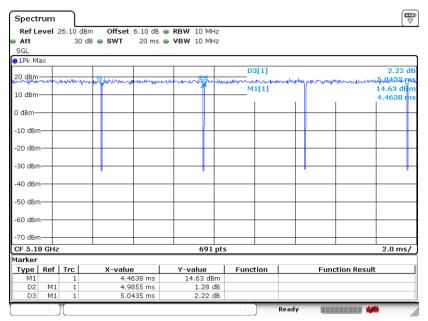
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802.11a Antenna 1+2



802.11n HT20 Antenna 1+2



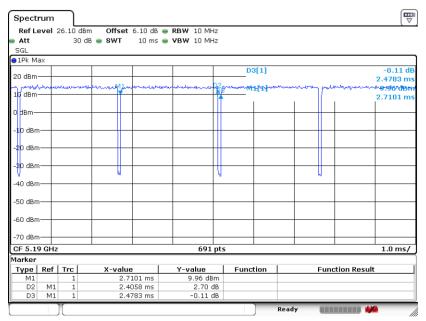
Sporton International (Kunshan) Inc.

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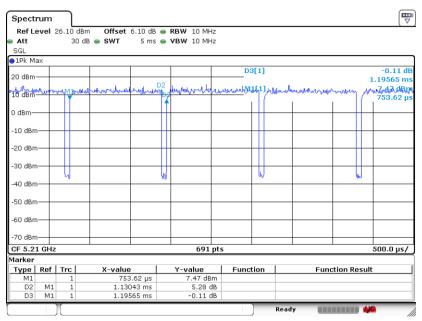
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SPORTON LAB. FCC RF Test Report

802.11n HT40 Antenna 1+2



802.11ac VHT80 Antenna 1+2



Sporton International (Kunshan) Inc.

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For Beamforming Modes

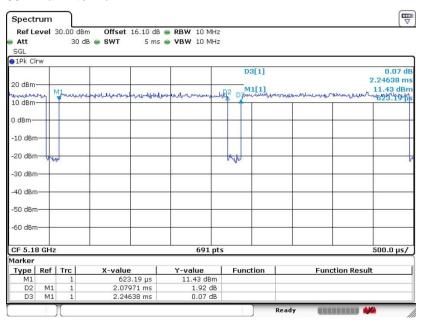
| Antenna | Band | Duty Cycle(%) | T(ms) | 1/T(kHz) | VBW Setting |
|---------|----------------|---------------|-------|----------|-------------|
| 1+2 | 802.11a | 92.581 | 2.077 | 0.481 | 0.51KHz |
| 1+2 | 802.11n HT20 | 90.848 | 1.942 | 0.515 | 0.56KHz |
| 1+2 | 802.11n HT40 | 90.910 | 1.884 | 0.531 | 0.56KHz |
| 1+2 | 802.11ac VHT80 | 92.124 | 1.949 | 0.513 | 0.56KHz |

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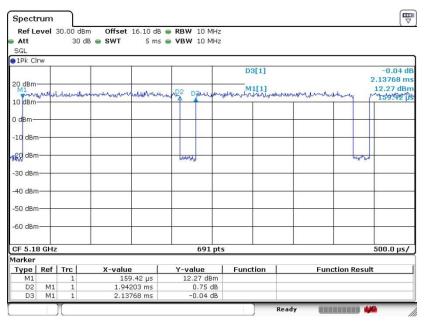
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802.11a Antenna 1+2



802.11n HT20 Antenna 1+2



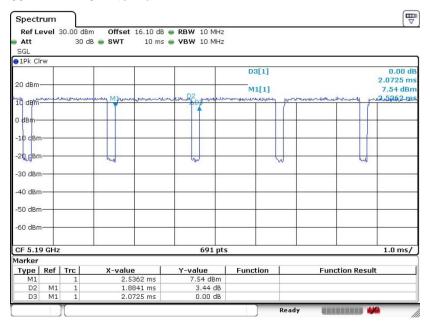
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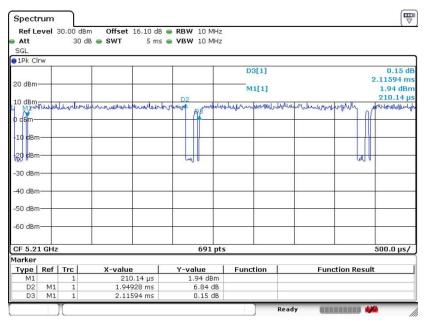
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802.11n HT40 Antenna 1+2



802.11ac VHT80 Antenna 1+2



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