



# FCC RADIO TEST REPORT

**FCC ID** : UZ7VC8300  
**Equipment** : Vehicle Computer  
**Brand Name** : Zebra  
**Model Name** : VC8300  
**Applicant** : Zebra Technologies Corporation  
1 Zebra Plaza, Holtsville, NY 11742  
**Manufacturer** : Zebra Technologies Corporation  
1 Zebra Plaza, Holtsville, NY 11742  
**Standard** : FCC Part 15 Subpart E §15.407

The product was received on Nov. 08, 2018 and testing was started from Nov. 23, 2018 and completed on Mar. 26, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, 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.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Jones Tsai

**SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory**

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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## History of this test report



## Summary of Test Result

| Report Clause | Ref Std. Clause     | Test Items                             | Result (PASS/FAIL) | Remark                                    |
|---------------|---------------------|--|--------------------|---|
| 3.1           | 15.403(i)           | 26dB Bandwidth                         | Pass               | -   |
| 3.1           | 2.1049              | 99% Occupied Bandwidth                 | Reporting only     | -   |
| 3.2           | 15.407(a)           | Maximum Conducted Output Power         | Pass               | -   |
| 3.3           | 15.407(a)           | Power Spectral Density                 | Pass               | -   |
| 3.4           | 15.407(b)           | Unwanted Emissions                     | Pass               | Under limit<br>1.01 dB at<br>5468.080 MHz |
| 3.5           | 15.207              | AC Conducted Emission                  | Pass               | Under limit<br>14.31 dB at<br>0.236 MHz   |
| 3.6           | 15.407(c)           | Automatically Discontinue Transmission | Pass               | -   |
| 3.7           | 15.203<br>15.407(a) | Antenna Requirement                    | Pass               | -   |

**Declaration of Conformity:**

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

**Comments and Explanations:**

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

**Reviewed by: Wii Chang****Report Producer: Polly Tsai**



## 1 General Description

### 1.1 Product Feature of Equipment Under Test

| Product Feature                        |  |
|--|--|
| <b>Equipment</b>                       | Vehicle Computer   |
| <b>Brand Name</b>                      | Zebra  |
| <b>Model Name</b>                      | VC8300   |
| <b>FCC ID</b>                          | UZ7VC8300  |
| <b>Sample 1</b>                        | EUT with SKU 1   |
| <b>Sample 2</b>                        | EUT with SKU 2   |
| <b>Sample 3</b>                        | EUT with SKU 3   |
| <b>Sample 4</b>                        | EUT with SKU 4   |
| <b>Sample 5</b>                        | EUT with SKU 5   |
| <b>Sample 6</b>                        | EUT with SKU 6   |
| <b>Sample 7</b>                        | EUT with SKU 7   |
| <b>EUT supports Radios application</b> | WLAN 11a/b/g/n HT20/HT40<br>WLAN 11ac VHT20/VHT40/VHT80<br>Bluetooth BR/EDR/LE |
| <b>HW Version</b>                      | EVT1   |
| <b>SW Version</b>                      | Zebra/VC8300/VC8310:8.1.0/01-14-12-00-ON-U00-PRD/26<br>6:eng/release-keys      |
| <b>FW Version</b>                      | 01-14-12.00-ON-U00-PRD   |
| <b>MFD</b>                             | 03Nov18  |
| <b>EUT Stage</b>                       | Identical Prototype  |

Remark: The above EUT's information was declared by manufacturer.

| Specification of Accessories       |                   |       |                   |                  |
|------------------------------------|-------------------|-------|-------------------|------------------|
| <b>AC Adapter</b>                  | <b>Brand Name</b> | Zebra | <b>Model Name</b> | FSP150-AAAN2-Z   |
| <b>Battery</b>                     | <b>Brand Name</b> | Zebra | <b>Model Name</b> | BT000254A01      |
| <b>Car Charger</b>                 | <b>Brand Name</b> | Zebra | <b>Model Name</b> | CA1210           |
| <b>RJ50/USB cable</b>              | <b>Brand Name</b> | Zebra | <b>Model Name</b> | CBA-U01-S07ZAR   |
| <b>Scanner</b>                     | <b>Brand Name</b> | Zebra | <b>Model Name</b> | DS3508           |
| <b>Scanner</b>                     | <b>Brand Name</b> | Zebra | <b>Model Name</b> | LS3408           |
| <b>Audio Speaker</b>               | <b>Brand Name</b> | Zebra | <b>Model Name</b> | M1000            |
| <b>Ferrite Core</b>                | <b>Brand Name</b> | Zebra | <b>Model Name</b> | M1000            |
| <b>Keyboard (ikey)</b>             | <b>Brand Name</b> | Zebra | <b>Model Name</b> | SLK-101-M-USB-3F |
| <b>Keyboard (remote keyboard)</b>  | <b>Brand Name</b> | Zebra | <b>Model Name</b> | KYBD-QWH-VC80    |
| <b>External Antenna (Monopole)</b> | <b>Brand Name</b> | Zebra | <b>Model Name</b> | AN2010           |
| <b>External Antenna (Monopole)</b> | <b>Brand Name</b> | Zebra | <b>Model Name</b> | AN2020           |
| <b>External Antenna (Dipole)</b>   | <b>Brand Name</b> | Zebra | <b>Model Name</b> | AN2030           |
| <b>Power Pre-regulator</b>         | <b>Brand Name</b> | PSION | <b>Model Name</b> | PS1370           |



## &lt;Sample Information&gt;

| Model Name           | VC80x 8"             |                      |  | VC80x 10"             |                       |                       |                       |
|----------------------|----------------------|----------------------|--|-----------------------|-----------------------|-----------------------|-----------------------|
|                      | SKU1                 | SKU2                 | SKU3                                   | SKU4                  | SKU5                  | SKU6                  | SKU7                  |
| SKU Name             | Warehouse 1          | Warehouse 2          | Freezer<br>SK HYNIX eMMC & MICRON DRAM | Warehouse             | Outdoor               | Warehouse             | Freezer               |
| OS                   | Android O            | Android O            | Android O                              | Android O             | Android O             | Android O             | Android O             |
| Display              | Tianma               | Tianma               | Tianma                                 | AUO                   | Mitsubishi            | AUO                   | AUO                   |
| DTB board / Fixture  | DTB 8" CTP (TCA8414) | DTB 8" CTP (TCA8414) | DTB 8" CTP (TCA8414)                   | DTB AUO CTP (TCA8414) | DTB MIT CTP (TCA8414) | DTB AUO RTP (TCA8414) | DTB AUO RTP (TCA8414) |
| TP Type (Gunze)      | CTP 8"               | CTP 8"               | CTP 8" w/ Heater                       | CTP 10"               | CTP 10"               | RTP                   | RTP w/ Heater         |
| KB printing          | QWERTY               | AZETY                | QWERTY                                 |                       |                       |                       |                       |
| KB Board             | NO                   | NO                   | NO                                     | Yes                   | Yes                   | Yes                   | Yes                   |
| KB                   | Yes                  | Yes                  | Yes                                    | NO                    | NO                    | NO                    | NO                    |
| MLB                  | SDA660               | SDA660               | SDA660                                 | SDA660                | SDA660                | SDA660                | SDA660                |
| PWR Board            | Yes                  | Yes                  | Yes                                    | Yes                   | Yes                   | Yes                   | Yes                   |
| USB Board            | Yes                  | Yes                  | Yes                                    | Yes                   | Yes                   | Yes                   | Yes                   |
| DB9 Board            | Yes                  | Yes                  | Yes                                    | Yes                   | Yes                   | Yes                   | Yes                   |
| Battery Heater Board | Yes                  | Yes                  | Yes                                    | Yes                   | Yes                   | Yes                   | Yes                   |



## 1.2 Product Specification of Equipment Under Test

| Standards-related Product Specification |   |
|---|---|
| <b>Tx/Rx Frequency Range</b>            | 5180 MHz ~ 5240 MHz<br>5260 MHz ~ 5320 MHz<br>5500 MHz ~ 5720 MHz   |
| <b>Maximum Output Power to Antenna</b>  | <b>&lt;5180 MHz ~ 5240 MHz&gt;</b><br><b>&lt;Chain 1&gt;</b><br>802.11a : 21.04 dBm / 0.1271 W<br>802.11n HT20 : 21.45 dBm / 0.1396 W<br>802.11n HT40 : 20.70 dBm / 0.1175 W<br>802.11ac VHT20: 21.45 dBm / 0.1396 W<br>802.11ac VHT40: 20.63 dBm / 0.1156 W<br>802.11ac VHT80: 16.44 dBm / 0.0441 W<br><b>&lt;Chain 2&gt;</b><br>802.11a : 21.06 dBm / 0.1276 W<br>802.11n HT20 : 21.19 dBm / 0.1315 W<br>802.11n HT40 : 19.67 dBm / 0.0927 W<br>802.11ac VHT20: 21.17 dBm / 0.1309 W<br>802.11ac VHT40: 19.63 dBm / 0.0918 W<br>802.11ac VHT80: 15.20 dBm / 0.0331 W<br><b>MIMO &lt;Chain 1+2&gt;</b><br>802.11a : 19.33 dBm / 0.0857 W<br>802.11n HT20 : 19.72 dBm / 0.0938 W<br>802.11n HT40 : 22.46 dBm / 0.1762 W<br>802.11ac VHT20: 19.63 dBm / 0.0918 W<br>802.11ac VHT40: 22.40 dBm / 0.1738 W<br>802.11ac VHT80: 16.99 dBm / 0.0500 W<br><b>&lt;5260 MHz ~ 5320 MHz&gt;</b><br><b>&lt;Chain 1&gt;</b><br>802.11a : 21.29 dBm / 0.1346 W<br>802.11n HT20 : 21.65 dBm / 0.1462 W<br>802.11n HT40 : 21.91 dBm / 0.1552 W<br>802.11ac VHT20: 21.62 dBm / 0.1452 W<br>802.11ac VHT40: 21.85 dBm / 0.1531 W<br>802.11ac VHT80: 15.57 dBm / 0.361 W<br><b>&lt;Chain 2&gt;</b><br>802.11a : 21.05 dBm / 0.1274 W<br>802.11n HT20 : 21.53 dBm / 0.1422 W<br>802.11n HT40 : 16.73 dBm / 0.0471 W<br>802.11ac VHT20: 21.00 dBm / 0.1259 W<br>802.11ac VHT40: 16.69 dBm / 0.0467 W<br>802.11ac VHT80: 13.47 dBm / 0.0222 W<br><b>MIMO &lt;Chain 1+2&gt;</b><br>802.11a : 19.41 dBm / 0.0873 W<br>802.11n HT20 : 21.00 dBm / 0.1259 W<br>802.11n HT40 : 21.95 dBm / 0.1567 W<br>802.11ac VHT20: 20.97 dBm / 0.1250 W<br>802.11ac VHT40: 21.83 dBm / 0.1524 W<br>802.11ac VHT80: 12.99 dBm / 0.0199 W |



| Standards-related Product Specification |         |   |  |         |         |               |   |   |                       |   |   |
|---|---------|---|--|---------|---------|---------------|---|---|-----------------------|---|---|
|   |         | <b>&lt;5500 MHz ~ 5720 MHz&gt;</b>  |  |         |         |               |   |   |                       |   |   |
| <b>Maximum Output Power to Antenna</b>  |         | <b>&lt;Chain 1&gt;</b><br>802.11a : 20.77 dBm / 0.1194 W<br>802.11n HT20 : 21.07 dBm / 0.1279 W<br>802.11n HT40 : 21.98 dBm / 0.1578 W<br>802.11ac VHT20: 20.65 dBm / 0.1161 W<br>802.11ac VHT40: 21.89 dBm / 0.1545 W<br>802.11ac VHT80: 21.71 dBm / 0.1483 W<br><b>&lt;Chain 2&gt;</b><br>802.11a : 20.97 dBm / 0.1250 W<br>802.11n HT20 : 21.31 dBm / 0.1352 W<br>802.11n HT40 : 22.59 dBm / 0.1816 W<br>802.11ac VHT20: 20.90 dBm / 0.1230 W<br>802.11ac VHT40: 22.56 dBm / 0.1803 W<br>802.11ac VHT80: 21.48 dBm / 0.1406 W<br><b>MIMO &lt;Chain 1+2&gt;</b><br>802.11a : 20.08 dBm / 0.1019 W<br>802.11n HT20 : 20.66 dBm / 0.1164 W<br>802.11n HT40 : 22.19 dBm / 0.1656 W<br>802.11ac VHT20: 20.61 dBm / 0.1151 W<br>802.11ac VHT40: 22.09 dBm / 0.1618 W<br>802.11ac VHT80: 23.26 dBm / 0.2118 W |  |         |         |               |   |   |                       |   |   |
| <b>99% Occupied Bandwidth</b>           |         | <b>&lt;Chain 1&gt;</b><br>802.11a : 17.30 MHz<br>802.11n HT20 : 18.40 MHz<br>802.11n HT40 : 37.00 MHz<br>802.11ac VHT80 : 77.16 MHz<br><b>&lt;Chain 2&gt;</b><br>802.11a : 17.65 MHz<br>802.11n HT20 : 19.95 MHz<br>802.11n HT40 : 37.10 MHz<br>802.11ac VHT80 : 77.28 MHz<br><b>MIMO &lt;Chain 1&gt;</b><br>802.11a : 16.80 MHz<br>802.11n HT20 : 18.00 MHz<br>802.11n HT40 : 36.80 MHz<br>802.11ac VHT80 : 77.04 MHz<br><b>MIMO &lt;Chain 2&gt;</b><br>802.11a : 16.80 MHz<br>802.11n HT20 : 18.00 MHz<br>802.11n HT40 : 37.00 MHz<br>802.11ac VHT80 : 77.40 MHz  |  |         |         |               |   |   |                       |   |   |
| <b>Type of Modulation</b>               |         | 802.11a/n : OFDM (BPSK/QPSK/16QAM/64QAM)<br>802.11ac : OFDM (BPSK/QPSK/16QAM/64QAM/256QAM)  |  |         |         |               |   |   |                       |   |   |
| <b>Antenna Function Description</b>     |         | <table border="1"><thead><tr><th></th><th>Chain 1</th><th>Chain 2</th></tr></thead><tbody><tr><td>802.11 a/n/ac</td><td>V</td><td>V</td></tr><tr><td>802.11 a/n/ac<br/>MIMO</td><td>V</td><td>V</td></tr></tbody></table>   |  | Chain 1 | Chain 2 | 802.11 a/n/ac | V | V | 802.11 a/n/ac<br>MIMO | V | V |
|   | Chain 1 | Chain 2   |  |         |         |               |   |   |                       |   |   |
| 802.11 a/n/ac                           | V       | V   |  |         |         |               |   |   |                       |   |   |
| 802.11 a/n/ac<br>MIMO                   | V       | V   |  |         |         |               |   |   |                       |   |   |

**Note:** MIMO Chain 1+2 is a calculated result from sum of the power MIMO Chain 1 and MIMO Chain 2.



| Antenna No. | Chain No.    | Model        | Antenna Type | Antenna Gain (dBi)<br>Exclude Cable loss | Internal Cable loss (dB) | External Cable loss (dB) | Antenna Gain (dBi)<br>Include Cable loss | Frequency (GHz) |  |  |
|-------------|--------------|--------------|--------------|--|--------------------------|--------------------------|--|-----------------|--|--|
| 1           | Int. Chain 0 | AN-000242-01 | Patch        | 3.30                                     | N/A                      | N/A                      | 3.30                                     | 2.4~2.4835      |  |  |
|             |              |              |              | 4.53                                     | N/A                      | N/A                      | 4.53                                     | 5.15~5.85       |  |  |
|             | Int. Chain 1 |              |              | 4.00                                     | N/A                      | N/A                      | 4.00                                     | 2.4~2.4835      |  |  |
|             |              |              |              | 4.79                                     | N/A                      | N/A                      | 4.79                                     | 5.15~5.85       |  |  |
| 2           | Ext. Chain 0 | AN2010       | Monopole     | 2  | 0.6                      | 1.8                      | -0.4                                     | 2.4~2.4835      |  |  |
|             |              |              |              | 2  | 0.9                      | 2.6                      | -1.5                                     | 5.15~5.85       |  |  |
|             | Ext. Chain 1 |              |              | 2  | 0.6                      | 1.8                      | -0.4                                     | 2.4~2.4835      |  |  |
|             |              |              |              | 2  | 0.9                      | 2.6                      | -1.5                                     | 5.15~5.85       |  |  |
| 3           | Ext. Chain 0 | AN2020       | Monopole     | 5  | 0.6                      | 1.8                      | 2.6                                      | 2.4~2.4835      |  |  |
|             | Ext. Chain 1 |              |              | 5  | 0.6                      | 1.8                      | 2.6                                      | 2.4~2.4835      |  |  |
| 4           | Ext. Chain 0 | AN2030       | Dipole       | 2  | 0.6                      | N/A                      | 1.4                                      | 2.4~2.4835      |  |  |
|             |              |              |              | 3.7                                      | 0.9                      | N/A                      | 2.8                                      | 5.15~5.85       |  |  |
|             | Ext. Chain 1 |              |              | 2  | 0.6                      | N/A                      | 1.4                                      | 2.4~2.4835      |  |  |
|             |              |              |              | 3.7                                      | 0.9                      | N/A                      | 2.8                                      | 5.15~5.85       |  |  |

### 1.3 Modification of EUT

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



## 1.4 Testing Location

|                           |   |         |
|---------------------------|---|---------|
| <b>Test Site</b>          | SPORTON INTERNATIONAL INC.  |         |
| <b>Test Site Location</b> | No.52, Huaya 1st Rd., Guishan Dist.,<br>Taoyuan City, Taiwan (R.O.C.)<br>TEL: +886-3-327-3456<br>FAX: +886-3-328-4978 |         |
| <b>Test Site No.</b>      | <b>Sportun Site No.</b>   |         |
|                           | TH05-HY   | CO05-HY |

**Note:** The test site complies with ANSI C63.4 2014 requirement.

|                           |   |  |
|---------------------------|---|--|
| <b>Test Site</b>          | SPORTON INTERNATIONAL INC.  |  |
| <b>Test Site Location</b> | No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist.,<br>Taoyuan City, Taiwan (R.O.C.)<br>TEL: +886-3-327-0868<br>FAX: +886-3-327-0855 |  |
| <b>Test Site No.</b>      | <b>Sportun Site No.</b>   |  |
|                           | 03CH12-HY   |  |

**Note:** The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No. TW1190 and TW0007

## 1.5 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 414788 D01 Radiated Test Site v01r01.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2013

**Remark:**

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



## 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 (X plane for Ant. 1, Y plane for Ant. 3, and Horizontal for Ant. 4) 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.<br>(MHz) | Channel | Freq.<br>(MHz) |
|---------------------------------------|---------|----------------|---------|----------------|
| 5150-5250 MHz<br>Band 1<br>(U-NII-1)  | 36      | 5180           | 44      | 5220           |
|                                       | 38*     | 5190           | 46*     | 5230           |
|                                       | 40      | 5200           | 48      | 5240           |
|                                       | 42#     | 5210           |         |                |
| Frequency Band                        | Channel | Freq.<br>(MHz) | Channel | Freq.<br>(MHz) |
| 5250-5350 MHz<br>Band 2<br>(U-NII-2A) | 52      | 5260           | 60      | 5300           |
|                                       | 54*     | 5270           | 62*     | 5310           |
|                                       | 56      | 5280           | 64      | 5320           |
|                                       | 58#     | 5290           |         |                |
| Frequency Band                        | Channel | Freq.<br>(MHz) | Channel | Freq.<br>(MHz) |
| 5470-5725 MHz<br>Band 3<br>(U-NII-2C) | 100     | 5500           | 112     | 5560           |
|                                       | 102*    | 5510           | 116     | 5580           |
|                                       | 104     | 5520           | 132     | 5660           |
|                                       | 106#    | 5530           | 134*    | 5670           |
|                                       | 108     | 5540           | 136     | 5680           |
|                                       | 110*    | 5550           | 140     | 5700           |



| Frequency Band   | Channel          | Freq.<br>(MHz) | Channel | Freq.<br>(MHz) |
|------------------|------------------|----------------|---------|----------------|
| TDWR Channel     | 118*             | 5590           | 124     | 5620           |
|                  | 120              | 5600           | 126*    | 5630           |
|                  | 122 <sup>#</sup> | 5610           | 128     | 5640           |
| Frequency Band   | Channel          | Freq.<br>(MHz) | Channel | Freq.<br>(MHz) |
| Straddle Channel | 138 <sup>#</sup> | 5690           | 144     | 5720           |
|                  | 142*             | 5710           |         |                |

**Note:**

1. The above Frequency and Channel in "\*" were 802.11n HT40 and 802.11ac VHT40.
2. The above Frequency and Channel in "#" were 802.11ac VHT80.



## 2.2 Test Mode

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

### Single Mode

| Modulation                       | Data Rate |
|----------------------------------|-----------|
| 802.11a                          | 6 Mbps    |
| 802.11n HT20                     | MCS0      |
| 802.11n HT40                     | MCS0      |
| 802.11ac VHT20 (Covered by HT20) | MCS0      |
| 802.11ac VHT40 (Covered by HT40) | MCS0      |
| 802.11ac VHT80                   | MCS0      |

### MIMO Mode

| Modulation                       | Data Rate |
|----------------------------------|-----------|
| 802.11a                          | 6 Mbps    |
| 802.11n HT20                     | MCS0      |
| 802.11n HT40                     | MCS0      |
| 802.11ac VHT20 (Covered by HT20) | MCS0      |
| 802.11ac VHT40 (Covered by HT40) | MCS0      |
| 802.11ac VHT80                   | MCS0      |

| Test Cases   |  |
|--|--|
| AC<br>Conducted<br>Emission  | Mode 1 : WLAN (5GHz) Link + Bluetooth Link + Audio Speaker (M1000) + Keyboard (ikey) + Scanner (LS3408) + RS-232 (Cable Load)* 2 + Int. Antenna + Ext. Antenna (AN2020) + Adapter + MPEG4 for Sample 4 |
| Remark: For Radiated Test Cases, the tests were performed with Sample 3 and each antenna (Ant. 1, Ant. 2, Ant. 4). |  |



| Ch. #    |        | Band I : 5150-5250 MHz | Band II : 5250-5350 MHz | Band III : 5470-5725MHz |
|----------|--------|------------------------|-------------------------|-------------------------|
|          |        | 802.11a                | 802.11a                 | 802.11a                 |
| L        | Low    | 36                     | 52                      | 100                     |
| M        | Middle | 44                     | 60                      | 116                     |
| H        | High   | 48                     | 64                      | 140                     |
| Straddle |        | -                      | -                       | 144                     |

| Ch. #    |        | Band I : 5150-5250 MHz | Band II : 5250-5350 MHz | Band III : 5470-5725MHz |
|----------|--------|------------------------|-------------------------|-------------------------|
|          |        | 802.11n HT20           | 802.11n HT20            | 802.11n HT20            |
| L        | Low    | 36                     | 52                      | 100                     |
| M        | Middle | 44                     | 60                      | 116                     |
| H        | High   | 48                     | 64                      | 140                     |
| Straddle |        | -                      | -                       | 144                     |

| Ch. #    |        | Band I : 5150-5250 MHz | Band II : 5250-5350 MHz | Band III : 5470-5725MHz |
|----------|--------|------------------------|-------------------------|-------------------------|
|          |        | 802.11n HT40           | 802.11n HT40            | 802.11n HT40            |
| L        | Low    | 38                     | 54                      | 102                     |
| M        | Middle | -                      | -                       | 110                     |
| H        | High   | 46                     | 62                      | 134                     |
| Straddle |        | -                      | -                       | 142                     |

| Ch. #    |        | Band I : 5150-5250 MHz | Band II : 5250-5350 MHz | Band III : 5470-5725MHz |
|----------|--------|------------------------|-------------------------|-------------------------|
|          |        | 802.11ac VHT80         | 802.11ac VHT80          | 802.11ac VHT80          |
| L        | Low    | -                      | -                       | 106                     |
| M        | Middle | 42                     | 58                      | 122                     |
| H        | High   | -                      | -                       | -                       |
| Straddle |        | -                      | -                       | 138                     |



## &lt;Chain 1&gt;

| 802.11a RF Output Power (dBm) |                    |                 |                    |                 |       |       |       |       |       |       |
|-------------------------------|--------------------|-----------------|--------------------|-----------------|-------|-------|-------|-------|-------|-------|
| Power vs. Channel             |                    |                 | Power vs Data Rate |                 |       |       |       |       |       |       |
| Channel                       | Frequency<br>(MHz) | Data Rate (bps) | Channel            | Data Rate (bps) |       |       |       |       |       |       |
|                               |                    |                 |                    | 9M              | 12M   | 18M   | 24M   | 36M   | 48M   |       |
| Duty Cycle (%)                | 95.12              |                 |                    | 93.84           | 91.15 | 88.96 | 85.83 | 77.78 | 75.71 | 75.38 |
| CH 036                        | 5180               | 20.68           | CH 044             | 20.79           | 20.81 | 20.96 | 21.03 | 20.79 | 20.66 | 20.53 |
| CH 044                        | 5220               | 21.04           |                    |                 |       |       |       |       |       |       |
| CH 048                        | 5240               | 21.00           |                    |                 |       |       |       |       |       |       |
| CH 052                        | 5260               | 21.28           | CH 060             | 21.03           | 21.15 | 21.21 | 21.26 | 20.99 | 20.91 | 20.83 |
| CH 060                        | 5300               | 21.29           |                    |                 |       |       |       |       |       |       |
| CH 064                        | 5320               | 21.22           |                    |                 |       |       |       |       |       |       |
| CH 100                        | 5500               | 18.69           | CH 144             | 20.71           | 20.32 | 20.65 | 20.68 | 20.70 | 20.62 | 20.47 |
| CH 116                        | 5580               | 20.65           |                    |                 |       |       |       |       |       |       |
| CH 140                        | 5700               | 13.60           |                    |                 |       |       |       |       |       |       |
| CH 144                        | 5720               | 20.77           |                    |                 |       |       |       |       |       |       |

Note: The above Frequency and Channel in "\*" were straddle Channel.

| 802.11n HT20 RF Output Power (dBm) |                    |           |                    |           |       |       |       |       |       |       |
|------------------------------------|--------------------|-----------|--------------------|-----------|-------|-------|-------|-------|-------|-------|
| Power vs. Channel                  |                    |           | Power vs Data Rate |           |       |       |       |       |       |       |
| Channel                            | Frequency<br>(MHz) | MCS Index | Channel            | MCS Index |       |       |       |       |       |       |
|                                    |                    | MCS0      |                    | MCS1      | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  |
| Duty Cycle (%)                     | 92.58              |           |                    | 92.53     | 89.10 | 86.03 | 81.13 | 76.74 | 73.50 | 71.80 |
| CH 036                             | 5180               | 20.60     | CH 048             | 21.27     | 21.15 | 21.18 | 21.03 | 21.10 | 21.18 | 21.17 |
| CH 044                             | 5220               | 21.39     |                    |           |       |       |       |       |       |       |
| CH 048                             | 5240               | 21.45     |                    |           |       |       |       |       |       |       |
| CH 052                             | 5260               | 21.25     | CH 064             | 20.74     | 21.20 | 21.25 | 20.66 | 20.75 | 20.84 | 20.89 |
| CH 060                             | 5300               | 21.26     |                    |           |       |       |       |       |       |       |
| CH 064                             | 5320               | 21.65     |                    |           |       |       |       |       |       |       |
| CH 100                             | 5500               | 18.14     | CH 116             | 20.46     | 20.60 | 20.55 | 20.31 | 20.30 | 20.44 | 20.44 |
| CH 116                             | 5580               | 20.65     |                    |           |       |       |       |       |       |       |
| CH 140                             | 5700               | 16.20     |                    |           |       |       |       |       |       |       |
| CH 144                             | 5720               | 19.09     |                    |           |       |       |       |       |       |       |

Note: The above Frequency and Channel in "\*" were straddle Channel.



| 802.11n HT40 RF Output Power (dBm) |                    |           |                    |           |       |       |       |       |
|------------------------------------|--------------------|-----------|--------------------|-----------|-------|-------|-------|-------|
| Power vs. Channel                  |                    |           | Power vs Data Rate |           |       |       |       |       |
| Channel                            | Frequency<br>(MHz) | MCS Index | Channel            | MCS Index |       |       |       |       |
|                                    |                    | MCS0      |                    | MCS1      | MCS2  | MCS3  | MCS4  | MCS5  |
| Duty Cycle (%)                     | 88.08              | 81.74     | 80.87              | 75.67     | 69.17 | 64.16 | 61.68 | 58.82 |
| CH 038                             | 5190               | 17.46     | CH 046             | 20.68     | 20.47 | 20.61 | 20.25 | 20.28 |
| CH 046                             | 5230               | 20.70     |                    | 21.90     | 21.77 | 21.89 | 21.47 | 21.58 |
| CH 054                             | 5270               | 21.91     |                    | 21.61     | 21.92 | 21.97 | 21.54 | 21.63 |
| CH 062                             | 5310               | 17.43     |                    | 21.63     | 21.76 | 21.55 | 21.70 |       |
| CH 102                             | 5510               | 18.00     | CH 110             | 21.61     | 21.92 | 21.97 | 21.54 | 21.63 |
| CH 110                             | 5550               | 21.98     |                    | 21.63     | 21.76 | 21.55 | 21.70 |       |
| CH 134                             | 5670               | 20.29     |                    | 21.63     | 21.76 | 21.55 | 21.70 |       |
| CH 142                             | 5710               | 20.97     |                    | 21.63     | 21.76 | 21.55 | 21.70 |       |

Note: The above Frequency and Channel in "\*" were straddle Channel.

| 802.11ac VHT20 RF Output Power (dBm) |                    |           |                    |           |       |       |       |       |
|--------------------------------------|--------------------|-----------|--------------------|-----------|-------|-------|-------|-------|
| Power vs. Channel                    |                    |           | Power vs Data Rate |           |       |       |       |       |
| Channel                              | Frequency<br>(MHz) | MCS Index | Channel            | MCS Index |       |       |       |       |
|                                      |                    | MCS0      |                    | MCS1      | MCS2  | MCS3  | MCS4  | MCS5  |
| Duty Cycle (%)                       | 93.14              | 91.59     | 88.60              | 86.40     | 80.56 | 77.40 | 75.46 | 74.51 |
| CH 036                               | 5180               | 20.53     | CH 048             | 21.23     | 21.13 | 21.13 | 21.02 | 21.03 |
| CH 044                               | 5220               | 21.06     |                    | 21.05     | 21.03 | 21.03 | 21.06 |       |
| CH 048                               | 5240               | 21.45     |                    | 20.67     | 21.16 | 21.21 | 20.64 | 20.70 |
| CH 052                               | 5260               | 21.25     |                    | 20.72     | 20.81 | 21.08 |       |       |
| CH 060                               | 5300               | 21.17     | CH 064             | 20.64     | 20.70 | 20.72 | 20.81 | 21.08 |
| CH 064                               | 5320               | 21.62     |                    | 20.72     | 20.81 | 21.08 |       |       |
| CH 100                               | 5500               | 18.05     |                    | 20.81     | 20.90 | 21.18 | 20.89 | 21.08 |
| CH 116                               | 5580               | 20.65     |                    | 20.90     | 21.08 | 21.36 | 20.99 | 21.08 |
| CH 140                               | 5700               | 16.15     | CH 116             | 21.08     | 21.36 | 21.64 | 20.99 | 21.08 |
| CH 144                               | 5720               | 19.05     |                    | 21.08     | 21.36 | 21.64 | 20.99 | 21.08 |

Note: The above Frequency and Channel in "\*" were straddle Channel.



| 802.11ac VHT40 RF Output Power (dBm) |                    |           |                    |           |       |       |       |       |       |       |       |       |
|--------------------------------------|--------------------|-----------|--------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| Power vs. Channel                    |                    |           | Power vs Data Rate |           |       |       |       |       |       |       |       |       |
| Channel                              | Frequency<br>(MHz) | MCS Index | Channel            | MCS Index |       |       |       |       |       |       |       |       |
|                                      |                    | MCS0      |                    | MCS1      | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  | MCS8  | MCS9  |
| Duty Cycle (%)                       | 89.02              |           |                    | 85.21     | 80.86 | 77.06 | 71.11 | 65.22 | 63.89 | 62.26 | 58.76 | 57.61 |
| CH 038                               | 5190               | 16.63     | CH 046             | 20.60     | 20.45 | 20.55 | 20.23 | 20.26 | 20.33 | 20.36 | 20.37 | 20.32 |
| CH 046                               | 5230               | 20.63     |                    |           |       |       |       |       |       |       |       |       |
| CH 054                               | 5270               | 21.85     | CH 054             | 21.80     | 21.72 | 21.83 | 21.40 | 21.51 | 21.45 | 21.56 | 21.53 | 21.56 |
| CH 062                               | 5310               | 17.35     |                    |           |       |       |       |       |       |       |       |       |
| CH 102                               | 5510               | 17.92     | CH 110             |           |       |       |       |       |       |       |       |       |
| CH 110                               | 5550               | 21.89     |                    | 21.50     | 21.84 | 21.87 | 21.54 | 21.57 | 21.55 | 21.68 | 21.69 |       |
| CH 134                               | 5670               | 20.20     |                    |           |       |       |       |       |       |       |       |       |
| CH 142                               | 5710               | 20.88     |                    |           |       |       |       |       |       |       |       |       |

Note: The above Frequency and Channel in "\*" were straddle Channel.

| 802.11ac VHT80 RF Output Power (dBm) |                    |           |                    |           |       |       |       |       |       |       |       |       |
|--------------------------------------|--------------------|-----------|--------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| Power vs. Channel                    |                    |           | Power vs Data Rate |           |       |       |       |       |       |       |       |       |
| Channel                              | Frequency<br>(MHz) | MCS Index | Channel            | MCS Index |       |       |       |       |       |       |       |       |
|                                      |                    | MCS0      |                    | MCS1      | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  | MCS8  | MCS9  |
| Duty Cycle (%)                       | 85.29              |           |                    | 73.49     | 68.75 | 64.29 | 57.45 | 54.76 | 51.22 | 52.50 | 43.90 | 45.95 |
| CH 042                               | 5210               | 16.44     | CH 042             | 15.99     | 15.96 | 15.94 | 15.99 | 15.84 | 15.97 | 15.76 | 16.23 | 16.04 |
| CH 058                               | 5290               | 15.57     | CH 058             | 15.54     | 15.55 | 15.51 | 15.12 | 15.50 | 15.19 | 15.52 | 15.56 | 15.25 |
| CH 106                               | 5530               | 17.31     | CH 138             |           |       |       |       |       |       |       |       |       |
| CH 122                               | 5610               | 21.32     |                    | 21.54     | 21.54 | 21.54 | 21.49 | 21.30 | 21.55 | 21.33 | 21.33 |       |
| CH 138                               | 5690               | 21.71     |                    |           |       |       |       |       |       |       |       |       |

Note: The above Frequency and Channel in "\*" were straddle Channel.



## &lt;Chain 2&gt;

| 802.11a RF Output Power (dBm) |                    |                 |                    |                 |       |       |       |       |
|-------------------------------|--------------------|-----------------|--------------------|-----------------|-------|-------|-------|-------|
| Power vs. Channel             |                    |                 | Power vs Data Rate |                 |       |       |       |       |
| Channel                       | Frequency<br>(MHz) | Data Rate (bps) | Channel            | Data Rate (bps) |       |       |       |       |
|                               |                    | 6M              |                    | 9M              | 12M   | 18M   | 24M   | 36M   |
| Duty Cycle (%)                |                    | 95.32           | CH 048             | 94.44           | 91.48 | 89.68 | 84.43 | 78.02 |
| CH 036                        | 5180               | 19.18           |                    | 20.75           | 20.79 | 21.02 | 21.05 | 20.68 |
| CH 044                        | 5220               | 20.84           | CH 052             | 20.75           | 20.89 | 20.97 | 21.04 | 20.58 |
| CH 048                        | 5240               | 21.06           |                    | 20.75           | 20.89 | 20.97 | 21.04 | 20.58 |
| CH 052                        | 5260               | 21.05           |                    | 20.75           | 20.89 | 20.97 | 21.04 | 20.51 |
| CH 060                        | 5300               | 18.05           |                    | 20.75           | 20.89 | 20.97 | 21.04 | 20.51 |
| CH 064                        | 5320               | 20.83           | CH 144             | 20.78           | 20.82 | 20.92 | 20.74 | 20.52 |
| CH 100                        | 5500               | 20.72           |                    | 20.78           | 20.82 | 20.92 | 20.74 | 20.43 |
| CH 116                        | 5580               | 20.85           |                    | 20.78           | 20.82 | 20.92 | 20.74 | 20.43 |
| CH 140                        | 5700               | 19.32           |                    | 20.78           | 20.82 | 20.92 | 20.74 | 20.43 |
| CH 144                        | 5720               | 20.97           |                    |                 |       |       |       |       |

Note: The above Frequency and Channel in "\*" were straddle Channel.

| 802.11n HT20 RF Output Power (dBm) |                    |           |                    |           |       |       |       |       |
|------------------------------------|--------------------|-----------|--------------------|-----------|-------|-------|-------|-------|
| Power vs. Channel                  |                    |           | Power vs Data Rate |           |       |       |       |       |
| Channel                            | Frequency<br>(MHz) | MCS Index | Channel            | MCS Index |       |       |       |       |
|                                    |                    | MCS0      |                    | MCS1      | MCS2  | MCS3  | MCS4  | MCS5  |
| Duty Cycle (%)                     |                    | 93.59     | CH 044             | 91.44     | 87.82 | 86.06 | 79.53 | 76.74 |
| CH 036                             | 5180               | 19.02     |                    | 21.17     | 21.15 | 21.14 | 21.01 | 21.01 |
| CH 044                             | 5220               | 21.19     | CH 052             | 21.10     | 21.40 | 21.38 | 21.21 | 21.15 |
| CH 048                             | 5240               | 21.09     |                    | 21.10     | 21.40 | 21.38 | 21.21 | 21.25 |
| CH 052                             | 5260               | 21.53     |                    | 21.10     | 21.40 | 21.38 | 21.21 | 21.36 |
| CH 060                             | 5300               | 17.94     |                    | 20.99     | 21.28 | 21.24 | 21.09 | 21.10 |
| CH 064                             | 5320               | 20.74     | CH 144             | 20.99     | 21.28 | 21.24 | 21.09 | 21.09 |
| CH 100                             | 5500               | 19.62     |                    | 20.99     | 21.28 | 21.24 | 21.09 | 21.15 |
| CH 116                             | 5580               | 20.89     |                    | 20.99     | 21.28 | 21.24 | 21.09 | 21.15 |
| CH 140                             | 5700               | 18.62     |                    | 20.99     | 21.28 | 21.24 | 21.09 | 21.15 |
| CH 144                             | 5720               | 21.31     |                    |           |       |       |       |       |

Note: The above Frequency and Channel in "\*" were straddle Channel.



| 802.11n HT40 RF Output Power (dBm) |                    |           |                    |           |       |       |       |       |
|------------------------------------|--------------------|-----------|--------------------|-----------|-------|-------|-------|-------|
| Power vs. Channel                  |                    |           | Power vs Data Rate |           |       |       |       |       |
| Channel                            | Frequency<br>(MHz) | MCS Index | Channel            | MCS Index |       |       |       |       |
|                                    |                    | MCS0      |                    | MCS1      | MCS2  | MCS3  | MCS4  | MCS5  |
| Duty Cycle (%)                     | 88.89              | 85.31     | 80.24              | 75.58     | 65.44 | 65.92 | 63.26 | 60.39 |
| CH 038                             | 5190               | 15.29     | CH 046             | 19.59     | 19.66 | 19.63 | 19.64 | 19.31 |
| CH 046                             | 5230               | 19.67     |                    | 16.40     | 16.48 | 16.56 | 16.46 | 16.53 |
| CH 054                             | 5270               | 16.73     | CH 054             | 22.57     | 22.56 | 22.58 | 22.46 | 22.10 |
| CH 062                             | 5310               | 16.04     |                    | 22.57     | 22.56 | 22.58 | 22.46 | 22.15 |
| CH 102                             | 5510               | 16.28     | CH 142             | 22.57     | 22.56 | 22.58 | 22.46 | 22.29 |
| CH 110                             | 5550               | 22.13     |                    | 22.57     | 22.56 | 22.58 | 22.46 | 22.29 |
| CH 134                             | 5670               | 17.62     |                    | 22.57     | 22.56 | 22.58 | 22.46 | 22.29 |
| CH 142                             | 5710               | 22.59     |                    | 22.57     | 22.56 | 22.58 | 22.46 | 22.29 |

Note: The above Frequency and Channel in "\*" were straddle Channel.

| 802.11ac VHT20 RF Output Power (dBm) |                    |           |                    |           |       |       |       |       |
|--------------------------------------|--------------------|-----------|--------------------|-----------|-------|-------|-------|-------|
| Power vs. Channel                    |                    |           | Power vs Data Rate |           |       |       |       |       |
| Channel                              | Frequency<br>(MHz) | MCS Index | Channel            | MCS Index |       |       |       |       |
|                                      |                    | MCS0      |                    | MCS1      | MCS2  | MCS3  | MCS4  | MCS5  |
| Duty Cycle (%)                       | 93.62              | 92.05     | 89.42              | 86.73     | 81.40 | 77.40 | 75.46 | 74.34 |
| CH 036                               | 5180               | 18.92     | CH 044             | 21.16     | 21.11 | 21.07 | 20.97 | 20.95 |
| CH 044                               | 5220               | 21.17     |                    | 21.16     | 21.11 | 21.07 | 20.97 | 20.95 |
| CH 048                               | 5240               | 21.06     | CH 052             | 20.99     | 20.94 | 20.97 | 20.98 | 20.92 |
| CH 052                               | 5260               | 21.00     |                    | 20.99     | 20.94 | 20.97 | 20.98 | 20.92 |
| CH 060                               | 5300               | 17.82     |                    | 20.99     | 20.94 | 20.97 | 20.98 | 20.92 |
| CH 064                               | 5320               | 20.60     |                    | 20.99     | 20.94 | 20.97 | 20.98 | 20.92 |
| CH 100                               | 5500               | 19.56     | CH 144             | 20.89     | 20.89 | 20.83 | 20.88 | 20.86 |
| CH 116                               | 5580               | 20.88     |                    | 20.89     | 20.89 | 20.83 | 20.88 | 20.86 |
| CH 140                               | 5700               | 18.59     |                    | 20.89     | 20.89 | 20.83 | 20.88 | 20.86 |
| CH 144                               | 5720               | 20.90     |                    | 20.89     | 20.89 | 20.83 | 20.88 | 20.86 |

Note: The above Frequency and Channel in "\*" were straddle Channel.



| 802.11ac VHT40 RF Output Power (dBm) |                    |           |                    |           |       |       |       |       |       |       |       |       |
|--------------------------------------|--------------------|-----------|--------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| Power vs. Channel                    |                    |           | Power vs Data Rate |           |       |       |       |       |       |       |       |       |
| Channel                              | Frequency<br>(MHz) | MCS Index | Channel            | MCS Index |       |       |       |       |       |       |       |       |
|                                      |                    | MCS0      |                    | MCS1      | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  | MCS8  | MCS9  |
| Duty Cycle (%)                       | 89.02              |           |                    | 86.52     | 81.34 | 77.19 | 71.64 | 66.67 | 64.22 | 62.86 | 60.42 | 57.61 |
| CH 038                               | 5190               | 15.57     | CH 046             | 19.58     | 15.60 | 19.62 | 19.59 | 19.29 | 19.34 | 19.52 | 19.59 | 19.62 |
| CH 046                               | 5230               | 19.63     |                    | 16.31     | 16.37 | 16.51 | 16.05 | 16.44 | 16.54 | 16.52 | 16.29 | 16.44 |
| CH 054                               | 5270               | 16.69     | CH 054             | 22.44     | 22.55 | 22.52 | 22.15 | 22.08 | 22.12 | 22.20 | 22.36 | 22.45 |
| CH 062                               | 5310               | 15.96     |                    | 22.44     | 22.55 | 22.52 | 22.15 | 22.08 | 22.12 | 22.20 | 22.36 | 22.45 |
| CH 102                               | 5510               | 16.24     | CH 142             | 22.44     | 22.55 | 22.52 | 22.15 | 22.08 | 22.12 | 22.20 | 22.36 | 22.45 |
| CH 110                               | 5550               | 22.10     |                    | 22.44     | 22.55 | 22.52 | 22.15 | 22.08 | 22.12 | 22.20 | 22.36 | 22.45 |
| CH 134                               | 5670               | 17.59     |                    |           |       |       |       |       |       |       |       |       |
| CH 142                               | 5710               | 22.56     |                    |           |       |       |       |       |       |       |       |       |

Note: The above Frequency and Channel in "\*" were straddle Channel.

| 802.11ac VHT80 RF Output Power (dBm) |                    |           |                    |           |       |       |       |       |       |       |       |       |
|--------------------------------------|--------------------|-----------|--------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| Power vs. Channel                    |                    |           | Power vs Data Rate |           |       |       |       |       |       |       |       |       |
| Channel                              | Frequency<br>(MHz) | MCS Index | Channel            | MCS Index |       |       |       |       |       |       |       |       |
|                                      |                    | MCS0      |                    | MCS1      | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  | MCS8  | MCS9  |
| Duty Cycle (%)                       | 85.93              |           |                    | 74.39     | 68.75 | 63.64 | 57.45 | 53.49 | 52.38 | 50.00 | 48.05 | 45.95 |
| CH 042                               | 5210               | 15.20     | CH 042             | 14.93     | 14.94 | 14.96 | 15.03 | 14.97 | 14.93 | 15.12 | 15.02 | 15.13 |
| CH 058                               | 5290               | 13.47     | CH 058             | 13.34     | 13.35 | 13.38 | 13.33 | 13.18 | 13.12 | 13.28 | 13.28 | 13.39 |
| CH 106                               | 5530               | 16.76     | CH 138             | 21.34     | 21.34 | 21.36 | 21.12 | 21.14 | 21.08 | 21.23 | 21.14 | 21.32 |
| CH 122                               | 5610               | 20.74     |                    | 21.34     | 21.34 | 21.36 | 21.12 | 21.14 | 21.08 | 21.23 | 21.14 | 21.32 |
| CH 138                               | 5690               | 21.48     |                    |           |       |       |       |       |       |       |       |       |

Note: The above Frequency and Channel in "\*" were straddle Channel.



## MIMO &lt;Chain 1+2&gt;

| 802.11a RF Output Power (dBm) |                    |                 |                    |                 |       |       |       |       |       |
|-------------------------------|--------------------|-----------------|--------------------|-----------------|-------|-------|-------|-------|-------|
| Power vs. Channel             |                    |                 | Power vs Data Rate |                 |       |       |       |       |       |
| Channel                       | Frequency<br>(MHz) | Data Rate (bps) | Channel            | Data Rate (bps) |       |       |       |       |       |
|                               |                    |                 |                    | 9M              | 12M   | 18M   | 24M   | 36M   | 48M   |
| Duty Cycle (%)                | 6M                 |                 | 54M                |                 |       |       |       |       |       |
| CH 036                        | 5180               | 19.33           | CH 036             | 19.01           | 19.07 | 19.21 | 19.05 | 19.18 | 19.24 |
| CH 044                        | 5220               | 19.25           |                    |                 |       |       |       |       |       |
| CH 048                        | 5240               | 19.26           |                    |                 |       |       |       |       |       |
| CH 052                        | 5260               | 19.30           | CH 060             | 19.39           | 19.36 | 19.21 | 19.15 | 19.37 | 19.31 |
| CH 060                        | 5300               | 19.41           |                    |                 |       |       |       |       |       |
| CH 064                        | 5320               | 19.22           |                    |                 |       |       |       |       |       |
| CH 100                        | 5500               | 19.09           | CH 116             | 19.77           | 19.87 | 20.07 | 20.05 | 20.06 | 19.81 |
| CH 116                        | 5580               | 20.08           |                    |                 |       |       |       |       |       |
| CH 140                        | 5700               | 19.77           |                    |                 |       |       |       |       |       |
| CH 144                        | 5720               | 18.88           |                    |                 |       |       |       |       |       |

Note: The above Frequency and Channel in "\*" were straddle Channel.

| 802.11n HT20 RF Output Power (dBm) |                    |           |                    |           |       |       |       |       |       |
|------------------------------------|--------------------|-----------|--------------------|-----------|-------|-------|-------|-------|-------|
| Power vs. Channel                  |                    |           | Power vs Data Rate |           |       |       |       |       |       |
| Channel                            | Frequency<br>(MHz) | MCS Index | Channel            | MCS Index |       |       |       |       |       |
|                                    |                    |           |                    | MCS1      | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  |
| Duty Cycle (%)                     | MCS0               |           | MCS7               |           |       |       |       |       |       |
| CH 036                             | 5180               | 19.71     | CH 044             | 19.63     | 19.69 | 19.65 | 19.71 | 19.69 | 19.71 |
| CH 044                             | 5220               | 19.72     |                    |           |       |       |       |       |       |
| CH 048                             | 5240               | 19.70     |                    |           |       |       |       |       |       |
| CH 052                             | 5260               | 19.76     | CH 064             | 20.74     | 20.89 | 20.86 | 20.92 | 20.96 | 20.94 |
| CH 060                             | 5300               | 19.80     |                    |           |       |       |       |       |       |
| CH 064                             | 5320               | 21.00     |                    |           |       |       |       |       |       |
| CH 100                             | 5500               | 18.94     | CH 116             | 20.46     | 20.60 | 20.54 | 20.65 | 20.63 | 20.60 |
| CH 116                             | 5580               | 20.66     |                    |           |       |       |       |       |       |
| CH 140                             | 5700               | 16.15     |                    |           |       |       |       |       |       |
| CH 144                             | 5720               | 19.33     |                    |           |       |       |       |       |       |

Note: The above Frequency and Channel in "\*" were straddle Channel.



| 802.11n HT40 RF Output Power (dBm) |                    |           |                    |           |        |        |       |       |       |       |  |  |  |  |
|------------------------------------|--------------------|-----------|--------------------|-----------|--------|--------|-------|-------|-------|-------|--|--|--|--|
| Power vs. Channel                  |                    |           | Power vs Data Rate |           |        |        |       |       |       |       |  |  |  |  |
| Channel                            | Frequency<br>(MHz) | MCS Index | Channel            | MCS Index |        |        |       |       |       |       |  |  |  |  |
|                                    |                    | MCS0      |                    | MCS1      | MCS2   | MCS3   | MCS4  | MCS5  | MCS6  | MCS7  |  |  |  |  |
| Duty Cycle (%)                     |                    |           |                    |           |        |        |       |       |       |       |  |  |  |  |
| CH 038                             | 5190               | 19.28     | CH 046             | 22.30     | 22.26  | 22.34  | 22.10 | 22.19 | 22.06 | 22.01 |  |  |  |  |
| CH 046                             | 5230               | 22.46     |                    | CH 054    | 21.81  | 21.77  | 21.82 | 21.54 | 21.69 | 21.61 |  |  |  |  |
| CH 054                             | 5270               | 21.95     |                    |           | CH 110 | 22.08  | 22.06 | 22.08 | 21.80 | 21.91 |  |  |  |  |
| CH 062                             | 5310               | 18.30     |                    |           |        | CH 110 | 21.84 | 21.85 | 21.84 |       |  |  |  |  |
| CH 102                             | 5510               | 20.08     | CH 110             | 22.08     |        |        |       |       |       |       |  |  |  |  |
| CH 110                             | 5550               | 22.19     |                    |           |        |        |       |       |       |       |  |  |  |  |
| CH 134                             | 5670               | 20.42     |                    |           |        |        |       |       |       |       |  |  |  |  |
| CH 142                             | 5710               | 22.12     |                    |           |        |        |       |       |       |       |  |  |  |  |

**Note:** The above Frequency and Channel in "\*" were straddle Channel.

| 802.11ac VHT20 RF Output Power (dBm) |                    |           |                    |           |       |       |       |       |       |       |       |
|--------------------------------------|--------------------|-----------|--------------------|-----------|-------|-------|-------|-------|-------|-------|-------|
| Power vs. Channel                    |                    |           | Power vs Data Rate |           |       |       |       |       |       |       |       |
| Channel                              | Frequency<br>(MHz) | MCS Index | Channel            | MCS Index |       |       |       |       |       |       |       |
|                                      |                    | MCS0      |                    | MCS1      | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  | MCS8  |
| Duty Cycle (%)                       |                    |           |                    |           |       |       |       |       |       |       |       |
| CH 036                               | 5180               | 19.63     | CH 036             | 19.30     | 19.37 | 19.49 | 19.44 | 19.38 | 19.36 | 19.48 | 19.38 |
| CH 044                               | 5220               | 19.53     |                    | CH 064    | 20.68 | 20.82 | 20.82 | 20.86 | 20.77 | 20.80 | 20.80 |
| CH 048                               | 5240               | 19.51     |                    |           |       |       |       |       |       |       |       |
| CH 052                               | 5260               | 19.71     |                    |           |       |       |       |       |       |       |       |
| CH 060                               | 5300               | 19.72     | CH 116             | 20.41     | 20.55 | 20.51 | 20.61 | 20.46 | 20.50 | 20.45 | 20.53 |
| CH 064                               | 5320               | 20.97     |                    |           |       |       |       |       |       |       |       |
| CH 100                               | 5500               | 18.83     |                    |           |       |       |       |       |       |       |       |
| CH 116                               | 5580               | 20.61     |                    |           |       |       |       |       |       |       |       |
| CH 140                               | 5700               | 16.11     |                    |           |       |       |       |       |       |       |       |
| CH 144                               | 5720               | 19.11     |                    |           |       |       |       |       |       |       |       |

**Note:** The above Frequency and Channel in "\*" were straddle Channel.



| 802.11ac VHT40 RF Output Power (dBm) |                    |           |                    |           |       |       |       |       |       |       |       |       |
|--------------------------------------|--------------------|-----------|--------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| Power vs. Channel                    |                    |           | Power vs Data Rate |           |       |       |       |       |       |       |       |       |
| Channel                              | Frequency<br>(MHz) | MCS Index | Channel            | MCS Index |       |       |       |       |       |       |       |       |
|                                      |                    |           |                    | MCS1      | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  | MCS8  | MCS9  |
| CH 038                               | 5190               | 19.13     | CH 046             | 22.28     | 22.24 | 22.32 | 21.95 | 22.13 | 22.04 | 22.00 | 22.08 | 22.09 |
| CH 046                               | 5230               | 22.40     | CH 054             | 21.80     | 21.74 | 21.79 | 21.51 | 21.65 | 21.60 | 21.56 | 21.67 | 21.67 |
| CH 054                               | 5270               | 21.83     | CH 110             | 22.05     | 22.04 | 22.04 | 21.70 | 21.78 | 21.68 | 21.81 | 21.95 | 21.89 |
| CH 062                               | 5310               | 18.17     |                    |           |       |       |       |       |       |       |       |       |
| CH 102                               | 5510               | 20.05     |                    |           |       |       |       |       |       |       |       |       |
| CH 110                               | 5550               | 22.09     |                    |           |       |       |       |       |       |       |       |       |
| CH 134                               | 5670               | 20.36     |                    |           |       |       |       |       |       |       |       |       |
| CH 142                               | 5710               | 21.99     |                    |           |       |       |       |       |       |       |       |       |

**Note:** The above Frequency and Channel in "\*" were straddle Channel.

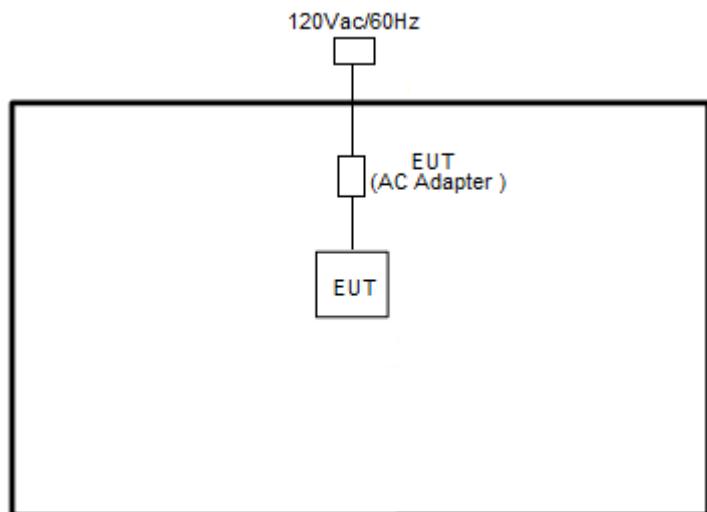
| 802.11ac VHT80 RF Output Power (dBm) |                    |           |                    |           |       |       |       |       |       |       |       |       |
|--------------------------------------|--------------------|-----------|--------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| Power vs. Channel                    |                    |           | Power vs Data Rate |           |       |       |       |       |       |       |       |       |
| Channel                              | Frequency<br>(MHz) | MCS Index | Channel            | MCS Index |       |       |       |       |       |       |       |       |
|                                      |                    |           |                    | MCS1      | MCS2  | MCS3  | MCS4  | MCS5  | MCS6  | MCS7  | MCS8  | MCS9  |
| CH 042                               | 5210               | 16.99     | CH 042             | 16.89     | 16.91 | 16.95 | 16.90 | 16.91 | 16.98 | 16.93 | 16.96 | 16.84 |
| CH 058                               | 5290               | 12.99     | CH 058             | 12.74     | 12.94 | 12.84 | 12.78 | 12.81 | 12.82 | 12.96 | 12.83 | 12.80 |
| CH 106                               | 5530               | 19.76     | CH 138             | 23.22     | 22.90 | 22.89 | 23.13 | 23.18 | 23.24 | 23.24 | 23.25 | 23.25 |
| CH 122                               | 5610               | 22.46     |                    |           |       |       |       |       |       |       |       |       |
| CH 138                               | 5690               | 23.26     |                    |           |       |       |       |       |       |       |       |       |

**Note:** The above Frequency and Channel in "\*" were straddle Channel.

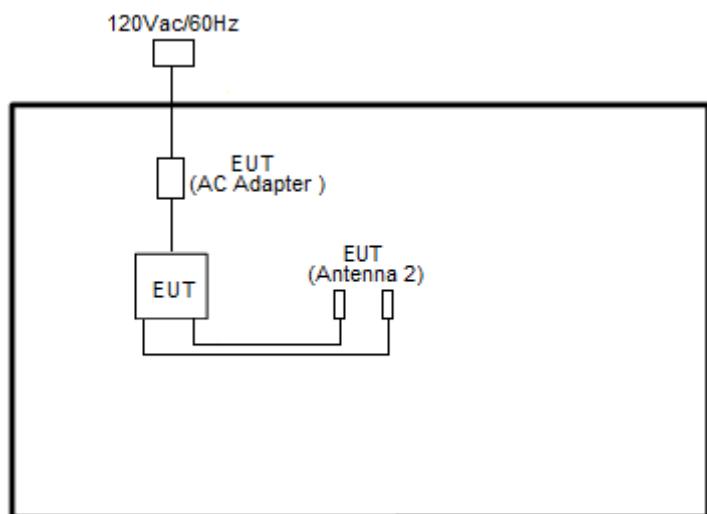


## 2.3 Connection Diagram of Test System

<EUT with Antenna 1>

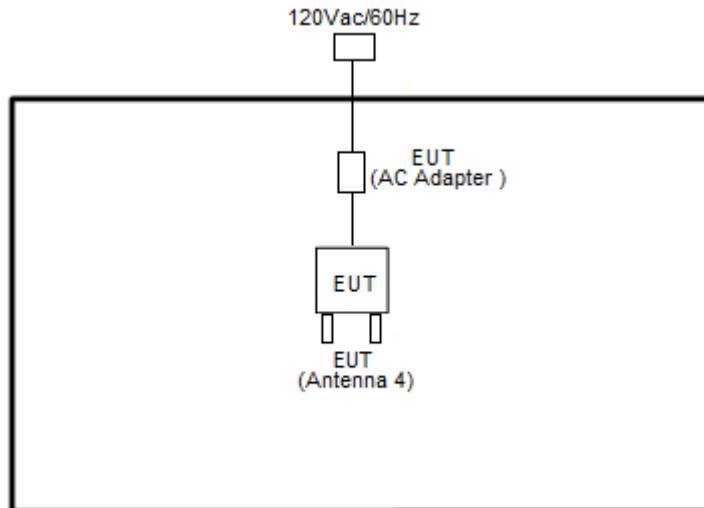


<EUT with Antenna 2>

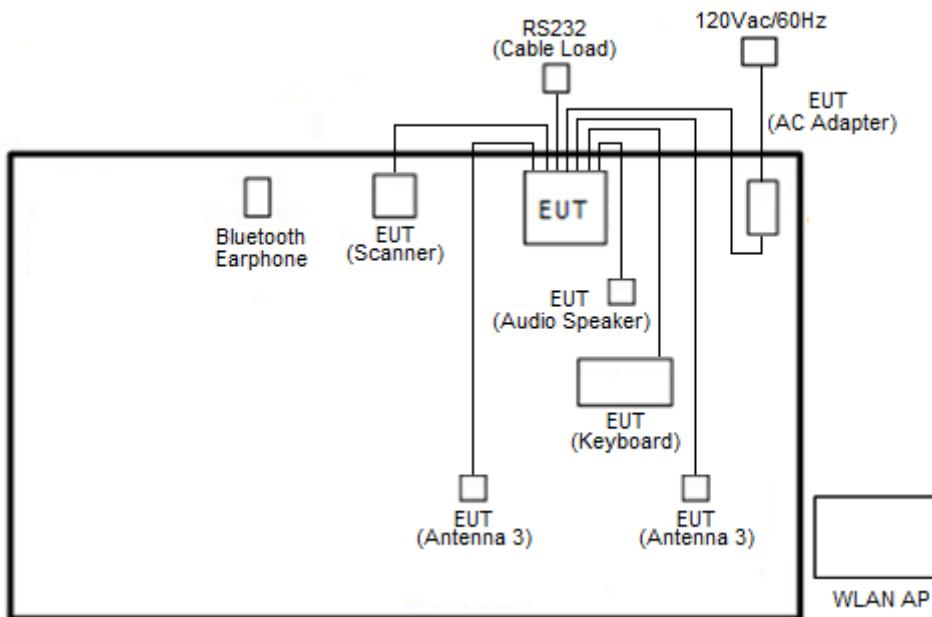




## &lt;EUT with Antenna 4&gt;



## &lt;AC Conducted Emission Mode&gt;





## 2.4 Support Unit used in test configuration and system

| Item | Equipment          | Trade Name    | Model Name     | FCC ID                                       | Data Cable | Power Cord   |
|------|--------------------|---------------|----------------|--|------------|--|
| 1.   | WLAN AP            | ASUS          | RT-AC66U       | MSQ-RTAC66U                                  | N/A        | Unshielded, 1.8 m  |
| 2.   | Bluetooth Earphone | Sony Ericsson | MW600          | PY7DDA-2029                                  | N/A        | N/A  |
| 3.   | Notebook           | DELL          | Latitude E6320 | FCC DoC/<br>Contains FCC ID:<br>QDS-BRCM1054 | N/A        | AC I/P:<br>Unshielded, 1.2 m<br>DC O/P:<br>Shielded, 1.8 m |

## 2.5 EUT Operation Test Setup

The RF test items, utility “QRCT” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

## 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 and attenuator factor 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 and attenuator factor.

*Offset = RF cable loss + attenuator factor.*

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 4.2 + 10 = 14.2 \text{ (dB)} \end{aligned}$$



### 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.

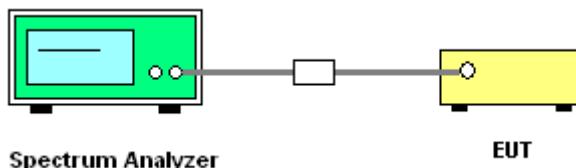
##### 3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

##### 3.1.3 Test Procedures

1. 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 1-5% of the emission bandwidth and set the Video bandwidth (VBW)  $\geq 3 * \text{RBW}$ .
8. Measure and record the results in the test report.

##### 3.1.4 Test Setup





## 3.1.5 Test Result of 26dB &amp; 99% Occupied Bandwidth

|                        |                             |                            |  |         |  |
|------------------------|-----------------------------|----------------------------|--|---------|--|
| <b>Test Engineer :</b> | Shiming Liu and Richard Qiu | <b>Temperature :</b>       |  | 21~25°C |  |
|                        |                             | <b>Relative Humidity :</b> |  | 51~54%  |  |

| Mod.  | Data Rate | NTX | CH. | Freq. (MHz) | 99% Bandwidth (MHz) |       | 26 dB Bandwidth (MHz) |        | IC 99% Bandwidth Power Limit (dBm) |       | IC 99% Bandwidth EIRP Limit (dBm) |       |
|-------|-----------|-----|-----|-------------|---------------------|-------|-----------------------|--------|------------------------------------|-------|-----------------------------------|-------|
|       |           |     |     |             | Ant 1               | Ant 2 | Ant 1                 | Ant 2  | Ant 1                              | Ant 2 | Ant 1                             | Ant 2 |
|       |           |     |     |             |                     |       |                       |        |                                    |       |                                   |       |
| 11a   | 6Mbps     | 1   | 36  | 5180        | 17.25               | 16.85 | 28.35                 | 26.55  | -                                  | -     | 22.37                             | 22.27 |
| 11a   | 6Mbps     | 1   | 44  | 5220        | 17.15               | 17.20 | 28.00                 | 29.00  | -                                  | -     | 22.34                             | 22.36 |
| 11a   | 6Mbps     | 1   | 48  | 5240        | 17.00               | 17.55 | 27.85                 | 30.45  | -                                  | -     | 22.30                             | 22.44 |
| HT20  | MCS0      | 1   | 36  | 5180        | 18.20               | 18.00 | 28.55                 | 26.75  | -                                  | -     | 22.60                             | 22.55 |
| HT20  | MCS0      | 1   | 44  | 5220        | 18.20               | 18.55 | 28.80                 | 31.75  | -                                  | -     | 22.60                             | 22.68 |
| HT20  | MCS0      | 1   | 48  | 5240        | 18.35               | 18.60 | 30.95                 | 31.10  | -                                  | -     | 22.64                             | 22.70 |
| HT40  | MCS0      | 1   | 38  | 5190        | 36.50               | 36.50 | 42.30                 | 42.49  | -                                  | -     | 23.01                             | 23.01 |
| HT40  | MCS0      | 1   | 46  | 5230        | 36.70               | 36.60 | 42.36                 | 42.15  | -                                  | -     | 23.01                             | 23.01 |
| VHT80 | MCS0      | 1   | 42  | 5210        | 76.80               | 76.80 | 83.04                 | 83.04  | -                                  | -     | 23.01                             | 23.01 |
| 11a   | 6Mbps     | 2   | 36  | 5180        | 16.70               | 16.65 | 24.70                 | 24.60  | -                                  | -     | 22.21                             |       |
| 11a   | 6Mbps     | 2   | 44  | 5220        | 16.75               | 16.80 | 24.00                 | 25.30  | -                                  | -     | 22.24                             |       |
| 11a   | 6Mbps     | 2   | 48  | 5240        | 16.70               | 16.80 | 24.40                 | 25.30  | -                                  | -     | 22.23                             |       |
| HT20  | MCS0      | 2   | 36  | 5180        | 17.90               | 17.90 | 25.40                 | 25.50  | -                                  | -     | 22.53                             |       |
| HT20  | MCS0      | 2   | 44  | 5220        | 17.90               | 17.80 | 25.80                 | 25.10  | -                                  | -     | 22.50                             |       |
| HT20  | MCS0      | 2   | 48  | 5240        | 17.95               | 17.80 | 26.00                 | 25.10  | -                                  | -     | 22.50                             |       |
| HT40  | MCS0      | 2   | 38  | 5190        | 36.70               | 36.80 | 42.12                 | 42.66  | -                                  | -     | 23.01                             |       |
| HT40  | MCS0      | 2   | 46  | 5230        | 36.60               | 36.60 | 41.58                 | 42.48  | -                                  | -     | 23.01                             |       |
| VHT80 | MCS0      | 2   | 42  | 5210        | 76.92               | 76.92 | 101.94                | 177.22 | -                                  | -     | 23.01                             |       |



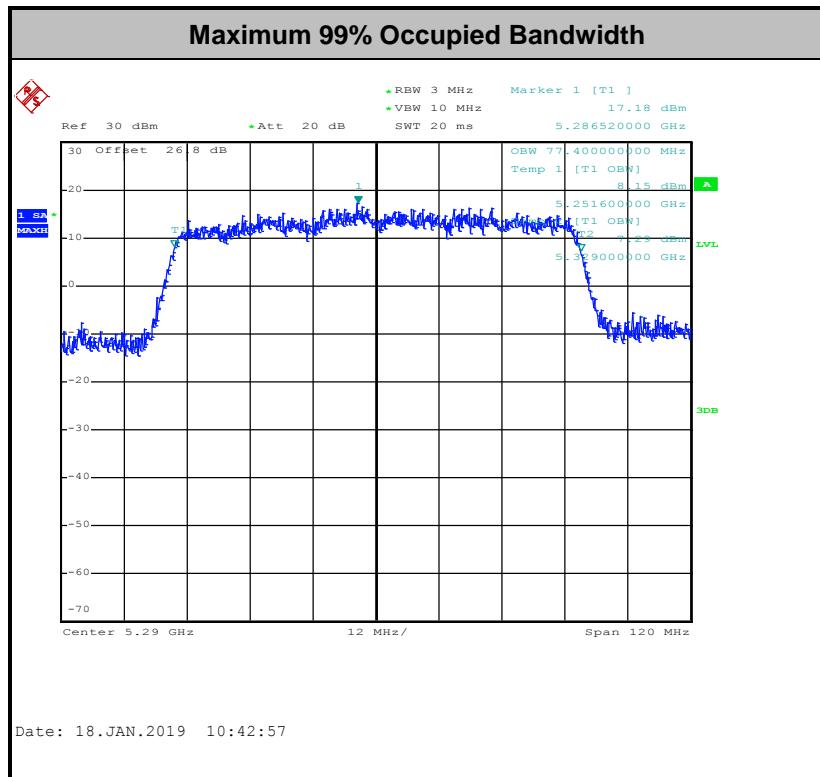
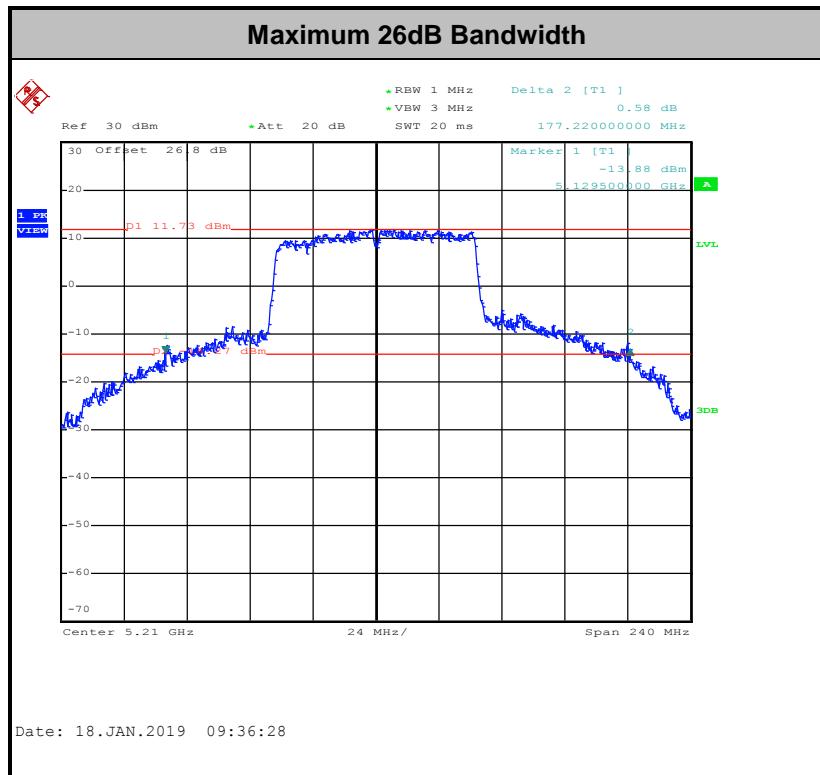
| Band II |           |     |     |             |                     |       |                       |        |                                    |       |                                   |       |                                      |       |
|---------|-----------|-----|-----|-------------|---------------------|-------|-----------------------|--------|------------------------------------|-------|-----------------------------------|-------|--------------------------------------|-------|
| Mod.    | Data Rate | NTX | CH. | Freq. (MHz) | 99% Bandwidth (MHz) |       | 26 dB Bandwidth (MHz) |        | IC 99% Bandwidth Power Limit (dBm) |       | IC 99% Bandwidth EIRP Limit (dBm) |       | FCC 26dB Bandwidth Power Limit (dBm) |       |
|         |           |     |     |             | 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        | 17.15               | 17.65 | 28.65                 | 32.15  | 23.34                              | 23.47 | 29.34                             | 29.47 | 23.98                                | 23.98 |
| 11a     | 6Mbps     | 1   | 60  | 5300        | 17.30               | 16.85 | 28.30                 | 25.95  | 23.38                              | 23.27 | 29.38                             | 29.27 | 23.98                                | 23.98 |
| 11a     | 6Mbps     | 1   | 64  | 5320        | 17.05               | 17.65 | 29.02                 | 30.20  | 23.32                              | 23.47 | 29.32                             | 29.47 | 23.98                                | 23.98 |
| HT20    | MCS0      | 1   | 52  | 5260        | 18.25               | 19.95 | 28.60                 | 35.85  | 23.61                              | 23.98 | 29.61                             | 30.00 | 23.98                                | 23.98 |
| HT20    | MCS0      | 1   | 60  | 5300        | 18.25               | 17.95 | 29.70                 | 26.85  | 23.61                              | 23.54 | 29.61                             | 29.54 | 23.98                                | 23.98 |
| HT20    | MCS0      | 1   | 64  | 5320        | 18.40               | 18.35 | 30.50                 | 31.05  | 23.65                              | 23.64 | 29.65                             | 29.64 | 23.98                                | 23.98 |
| HT40    | MCS0      | 1   | 54  | 5270        | 37.00               | 36.60 | 62.55                 | 42.33  | 23.98                              | 23.98 | 30.00                             | 30.00 | 23.98                                | 23.98 |
| HT40    | MCS0      | 1   | 62  | 5310        | 36.60               | 36.60 | 42.17                 | 42.30  | 23.98                              | 23.98 | 30.00                             | 30.00 | 23.98                                | 23.98 |
| VHT80   | MCS0      | 1   | 58  | 5290        | 76.80               | 76.92 | 84.00                 | 83.48  | 23.98                              | 23.98 | 30.00                             | 30.00 | 23.98                                | 23.98 |
| 11a     | 6Mbps     | 2   | 52  | 5260        | 16.80               | 16.75 | 24.60                 | 25.25  | 23.24                              |       | 29.24                             |       | 23.98                                |       |
| 11a     | 6Mbps     | 2   | 60  | 5300        | 16.70               | 16.75 | 24.70                 | 25.40  | 23.23                              |       | 29.23                             |       | 23.98                                |       |
| 11a     | 6Mbps     | 2   | 64  | 5320        | 16.75               | 16.80 | 24.50                 | 26.20  | 23.24                              |       | 29.24                             |       | 23.98                                |       |
| HT20    | MCS0      | 2   | 52  | 5260        | 17.90               | 18.00 | 25.70                 | 25.40  | 23.53                              |       | 29.53                             |       | 23.98                                |       |
| HT20    | MCS0      | 2   | 60  | 5300        | 17.90               | 17.80 | 25.85                 | 25.20  | 23.50                              |       | 29.50                             |       | 23.98                                |       |
| HT20    | MCS0      | 2   | 64  | 5320        | 17.85               | 17.90 | 25.30                 | 25.90  | 23.52                              |       | 29.52                             |       | 23.98                                |       |
| HT40    | MCS0      | 2   | 54  | 5270        | 36.70               | 37.00 | 41.94                 | 49.68  | 23.98                              |       | 30.00                             |       | 23.98                                |       |
| HT40    | MCS0      | 2   | 62  | 5310        | 36.80               | 37.00 | 42.12                 | 55.31  | 23.98                              |       | 30.00                             |       | 23.98                                |       |
| VHT80   | MCS0      | 2   | 58  | 5290        | 77.04               | 77.40 | 96.48                 | 141.12 | 23.98                              |       | 30.00                             |       | 23.98                                |       |



| Band III |           |     |     |                |                                       |       |   |       |  |       |   |       |  |       |   |       |
|----------|-----------|-----|-----|----------------|---------------------------------------|-------|---|-------|--|-------|---|-------|--|-------|---|-------|
| Mod.     | Data Rate | NTX | CH. | Freq.<br>(MHz) | 99% Bandwidth<br>In U-NII 2C<br>(MHz) |       | 26 dB Bandwidth<br>In U-NII 2C<br>(MHz) |       | IC 99% Bandwidth<br>Power Limit<br>(dBm) |       | IC 99% Bandwidth<br>EIRP Limit<br>(dBm) |       | FCC 26dB Bandwidth<br>Power Limit<br>(dBm) |       | 6 dB Bandwidth for<br>Straddle Channel<br>(MHz) |       |
|          |           |     |     |                | Ant 1                                 | Ant 2 | 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           | 16.85                                 | 16.95 | 26.00                                   | 27.15 | 23.27                                    | 23.29 | 29.27                                   | 29.29 | 23.98                                      | 23.98 | ----  | ----  |
| 11a      | 6Mbps     | 1   | 116 | 5580           | 16.95                                 | 17.05 | 27.65                                   | 27.70 | 23.29                                    | 23.32 | 29.29                                   | 29.32 | 23.98                                      | 23.98 | ----  | ----  |
| 11a      | 6Mbps     | 1   | 140 | 5700           | 16.75                                 | 17.45 | 24.45                                   | 32.00 | 23.24                                    | 23.42 | 29.24                                   | 29.42 | 23.98                                      | 23.98 | ----  | ----  |
| 11a      | 6Mbps     | 1   | 144 | 5720           | 13.60                                 | 13.45 | 19.00                                   | 19.25 | 22.34                                    | 22.29 | 28.34                                   | 28.29 | 23.79                                      | 23.84 | 3.15  | 3.15  |
| HT20     | MCS0      | 1   | 100 | 5500           | 17.95                                 | 18.00 | 25.45                                   | 27.35 | 23.54                                    | 23.55 | 29.54                                   | 29.55 | 23.98                                      | 23.98 | ----  | ----  |
| HT20     | MCS0      | 1   | 116 | 5580           | 18.10                                 | 18.20 | 27.75                                   | 27.50 | 23.58                                    | 23.60 | 29.58                                   | 29.60 | 23.98                                      | 23.98 | ----  | ----  |
| HT20     | MCS0      | 1   | 140 | 5700           | 17.85                                 | 18.00 | 25.80                                   | 26.55 | 23.52                                    | 23.55 | 29.52                                   | 29.55 | 23.98                                      | 23.98 | ----  | ----  |
| HT20     | MCS0      | 1   | 144 | 5720           | 13.95                                 | 14.45 | 18.60                                   | 20.55 | 22.45                                    | 22.60 | 28.45                                   | 28.60 | 23.70                                      | 23.98 | 3.35  | 3.5   |
| HT40     | MCS0      | 1   | 102 | 5510           | 36.60                                 | 36.50 | 41.94                                   | 42.30 | 23.98                                    | 23.98 | 30.00                                   | 30.00 | 23.98                                      | 23.98 | ----  | ----  |
| HT40     | MCS0      | 1   | 110 | 5550           | 37.00                                 | 37.10 | 61.64                                   | 64.23 | 23.98                                    | 23.98 | 30.00                                   | 30.00 | 23.98                                      | 23.98 | ----  | ----  |
| HT40     | MCS0      | 1   | 134 | 5670           | 36.70                                 | 36.60 | 42.35                                   | 42.00 | 23.98                                    | 23.98 | 30.00                                   | 30.00 | 23.98                                      | 23.98 | ----  | ----  |
| HT40     | MCS0      | 1   | 142 | 5710           | 33.40                                 | 34.70 | 39.03                                   | 58.35 | 23.98                                    | 23.98 | 30.00                                   | 30.00 | 23.98                                      | 23.98 | 2.82  | 2.91  |
| VHT80    | MCS0      | 1   | 106 | 5530           | 77.04                                 | 76.80 | 83.68                                   | 84.00 | 23.98                                    | 23.98 | 30.00                                   | 30.00 | 23.98                                      | 23.98 | ----  | ----  |
| VHT80    | MCS0      | 1   | 122 | 5610           | 77.16                                 | 77.28 | 117.74                                  | 89.52 | 23.98                                    | 23.98 | 30.00                                   | 30.00 | 23.98                                      | 23.98 | ----  | ----  |
| VHT80    | MCS0      | 1   | 138 | 5690           | 73.76                                 | 73.76 | 106.20                                  | 89.40 | 23.98                                    | 23.98 | 30.00                                   | 30.00 | 23.98                                      | 23.98 | 2.6   | 2.6   |



| Band III |           |     |     |                |                                       |       |   |        |  |       |   |       |  |       |   |       |
|----------|-----------|-----|-----|----------------|---------------------------------------|-------|---|--------|--|-------|---|-------|--|-------|---|-------|
| Mod.     | Data Rate | NTX | CH. | Freq.<br>(MHz) | 99% Bandwidth<br>In U-NII 2C<br>(MHz) |       | 26 dB Bandwidth<br>In U-NII 2C<br>(MHz) |        | IC 99% Bandwidth<br>Power Limit<br>(dBm) |       | IC 99% Bandwidth<br>EIRP Limit<br>(dBm) |       | FCC 26dB Bandwidth<br>Power Limit<br>(dBm) |       | 6 dB Bandwidth for<br>Straddle Channel<br>(MHz) |       |
|          |           |     |     |                | Ant 1                                 | Ant 2 | Ant 1                                   | Ant 2  | Ant 1                                    | Ant 2 | Ant 1                                   | Ant 2 | Ant 1                                      | Ant 2 | Ant 1   | Ant 2 |
| 11a      | 6Mbps     | 2   | 100 | 5500           | 16.75                                 | 16.80 | 24.50                                   | 25.20  | 23.24                                    | 29.24 | 23.98                                   | ----  | ----                                       | ----  | ----  |       |
| 11a      | 6Mbps     | 2   | 116 | 5580           | 16.70                                 | 16.75 | 24.50                                   | 25.30  | 23.23                                    | 29.23 | 23.98                                   | ----  | ----                                       | ----  | ----  |       |
| 11a      | 6Mbps     | 2   | 140 | 5700           | 16.70                                 | 16.75 | 24.80                                   | 25.60  | 23.23                                    | 29.23 | 23.98                                   | ----  | ----                                       | ----  | ----  |       |
| 11a      | 6Mbps     | 2   | 144 | 5720           | 13.40                                 | 13.35 | 16.85                                   | 17.25  | 22.25                                    | 28.25 | 23.27                                   | 2.85  | 2.55                                       | ----  | ----  |       |
| HT20     | MCS0      | 2   | 100 | 5500           | 17.90                                 | 17.85 | 25.35                                   | 25.45  | 23.52                                    | 29.52 | 23.98                                   | ----  | ----                                       | ----  | ----  |       |
| HT20     | MCS0      | 2   | 116 | 5580           | 17.90                                 | 17.80 | 25.45                                   | 25.80  | 23.50                                    | 29.50 | 23.98                                   | ----  | ----                                       | ----  | ----  |       |
| HT20     | MCS0      | 2   | 140 | 5700           | 18.00                                 | 17.85 | 26.55                                   | 25.00  | 23.52                                    | 29.52 | 23.98                                   | ----  | ----                                       | ----  | ----  |       |
| HT20     | MCS0      | 2   | 144 | 5720           | 13.95                                 | 13.95 | 17.30                                   | 18.00  | 22.45                                    | 28.45 | 23.38                                   | 2.55  | 3.5  | ----  | ----  |       |
| HT40     | MCS0      | 2   | 102 | 5510           | 36.70                                 | 36.70 | 42.12                                   | 48.96  | 23.98                                    | 30.00 | 23.98                                   | ----  | ----                                       | ----  | ----  |       |
| HT40     | MCS0      | 2   | 110 | 5550           | 36.70                                 | 36.80 | 41.76                                   | 42.12  | 23.98                                    | 30.00 | 23.98                                   | ----  | ----                                       | ----  | ----  |       |
| HT40     | MCS0      | 2   | 134 | 5670           | 36.80                                 | 36.70 | 42.30                                   | 41.94  | 23.98                                    | 30.00 | 23.98                                   | ----  | ----                                       | ----  | ----  |       |
| HT40     | MCS0      | 2   | 142 | 5710           | 33.50                                 | 33.50 | 41.37                                   | 42.63  | 23.98                                    | 30.00 | 23.98                                   | 2.46  | 2.46                                       | ----  | ----  |       |
| VHT80    | MCS0      | 2   | 106 | 5530           | 76.92                                 | 77.16 | 97.92                                   | 101.02 | 23.98                                    | 30.00 | 23.98                                   | ----  | ----                                       | ----  | ----  |       |
| VHT80    | MCS0      | 2   | 122 | 5610           | 77.04                                 | 77.28 | 100.32                                  | 118.24 | 23.98                                    | 30.00 | 23.98                                   | ----  | ----                                       | ----  | ----  |       |
| VHT80    | MCS0      | 2   | 138 | 5690           | 73.40                                 | 73.64 | 91.16                                   | 91.80  | 23.98                                    | 30.00 | 23.98                                   | 2.6   | 2.5  | ----  | ----  |       |



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



## 3.2 Maximum Conducted Output Power Measurement

### 3.2.1 Limit of Maximum Conducted Output Power

#### <FCC 14-30 CFR 15.407>

##### For the 5.15–5.25 GHz bands:

- For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

##### 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  $11 \text{ dBm} + 10 \log B$ , where B is the 26 dB emission bandwidth in megahertz.

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

See list of measuring equipment of this test report.



### 3.2.3 Test Procedures

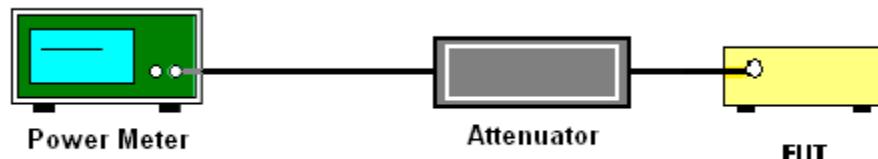
The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

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.

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.

### 3.2.4 Test Setup





### 3.2.5 Test Result of Maximum Conducted Output Power

|                 |                             |                     |         |
|-----------------|-----------------------------|---------------------|---------|
| Test Engineer : | Shiming Liu and Richard Qiu | Temperature :       | 21~25°C |
|                 |                             | Relative Humidity : | 51~54%  |

| Mod.  | Data Rate | NTX | CH. | Freq.<br>(MHz) | Duty Factor<br>(dB) |       | Average Conducted Power<br>(dBm) |       |     | FCC Conducted Power Limit<br>(dBm) |       | DG<br>(dBi) |       | Pass/Fail |
|-------|-----------|-----|-----|----------------|---------------------|-------|----------------------------------|-------|-----|------------------------------------|-------|-------------|-------|-----------|
|       |           |     |     |                | Ant 1               | Ant 2 | Ant 1                            | Ant 2 | SUM | Ant 1                              | Ant 2 | Ant 1       | Ant 2 |           |
| 11a   | 6Mbps     | 1   | 36  | 5180           | 0.22                | 0.21  | 20.68                            | 19.18 |     | 24.00                              | 24.00 | 4.23        | 4.61  | Pass      |
| 11a   | 6Mbps     | 1   | 44  | 5220           | 0.22                | 0.21  | 21.04                            | 20.84 |     | 24.00                              | 24.00 | 4.23        | 4.61  | Pass      |
| 11a   | 6Mbps     | 1   | 48  | 5240           | 0.22                | 0.21  | 21.00                            | 21.06 |     | 24.00                              | 24.00 | 4.23        | 4.61  | Pass      |
| HT20  | MCS0      | 1   | 36  | 5180           | 0.33                | 0.29  | 20.60                            | 19.02 |     | 24.00                              | 24.00 | 4.23        | 4.61  | Pass      |
| HT20  | MCS0      | 1   | 44  | 5220           | 0.33                | 0.29  | 21.39                            | 21.19 |     | 24.00                              | 24.00 | 4.23        | 4.61  | Pass      |
| HT20  | MCS0      | 1   | 48  | 5240           | 0.33                | 0.29  | 21.45                            | 21.09 |     | 24.00                              | 24.00 | 4.23        | 4.61  | Pass      |
| HT40  | MCS0      | 1   | 38  | 5190           | 0.55                | 0.51  | 17.46                            | 15.29 |     | 24.00                              | 24.00 | 4.23        | 4.61  | Pass      |
| HT40  | MCS0      | 1   | 46  | 5230           | 0.55                | 0.51  | 20.70                            | 19.67 |     | 24.00                              | 24.00 | 4.23        | 4.61  | Pass      |
| VHT20 | MCS0      | 1   | 36  | 5180           | 0.31                | 0.29  | 20.53                            | 18.92 |     | 24.00                              | 24.00 | 4.23        | 4.61  | Pass      |
| VHT20 | MCS0      | 1   | 44  | 5220           | 0.31                | 0.29  | 21.06                            | 21.17 |     | 24.00                              | 24.00 | 4.23        | 4.61  | Pass      |
| VHT20 | MCS0      | 1   | 48  | 5240           | 0.31                | 0.29  | 21.45                            | 21.06 |     | 24.00                              | 24.00 | 4.23        | 4.61  | Pass      |
| VHT40 | MCS0      | 1   | 38  | 5190           | 0.51                | 0.51  | 16.63                            | 15.57 |     | 24.00                              | 24.00 | 4.23        | 4.61  | Pass      |
| VHT40 | MCS0      | 1   | 46  | 5230           | 0.51                | 0.51  | 20.63                            | 19.63 |     | 24.00                              | 24.00 | 4.23        | 4.61  | Pass      |
| VHT80 | MCS0      | 1   | 42  | 5210           | 0.69                | 0.66  | 16.44                            | 15.20 |     | 24.00                              | 24.00 | 4.23        | 4.61  | Pass      |



| FCC Band I |           |     |     |             |                  |       |                               |       |       |                                 |       |          |       |           |
|------------|-----------|-----|-----|-------------|------------------|-------|-------------------------------|-------|-------|---------------------------------|-------|----------|-------|-----------|
| Mod.       | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) |       | Average Conducted Power (dBm) |       |       | FCC Conducted Power Limit (dBm) |       | DG (dBi) |       | Pass/Fail |
|            |           |     |     |             | Ant 1            | Ant 2 | Ant 1                         | Ant 2 | SUM   | Ant 1                           | Ant 2 | Ant 1    | Ant 2 |           |
| 11a        | 6Mbps     | 2   | 36  | 5180        | 0.19             | 0.19  | 16.43                         | 16.22 | 19.33 | 24.00                           | 24.00 | 4.61     | 4.61  | Pass      |
| 11a        | 6Mbps     | 2   | 44  | 5220        | 0.19             | 0.19  | 16.20                         | 16.28 | 19.25 | 24.00                           | 24.00 | 4.61     | 4.61  | Pass      |
| 11a        | 6Mbps     | 2   | 48  | 5240        | 0.19             | 0.19  | 16.31                         | 16.20 | 19.26 | 24.00                           | 24.00 | 4.61     | 4.61  | Pass      |
| HT20       | MCS0      | 2   | 36  | 5180        | 0.27             | 0.26  | 16.91                         | 16.48 | 19.71 | 24.00                           | 24.00 | 4.61     | 4.61  | Pass      |
| HT20       | MCS0      | 2   | 44  | 5220        | 0.27             | 0.26  | 16.71                         | 16.70 | 19.72 | 24.00                           | 24.00 | 4.61     | 4.61  | Pass      |
| HT20       | MCS0      | 2   | 48  | 5240        | 0.27             | 0.26  | 16.69                         | 16.68 | 19.70 | 24.00                           | 24.00 | 4.61     | 4.61  | Pass      |
| HT40       | MCS0      | 2   | 38  | 5190        | 0.60             | 0.49  | 16.80                         | 15.66 | 19.28 | 24.00                           | 24.00 | 4.61     | 4.61  | Pass      |
| HT40       | MCS0      | 2   | 46  | 5230        | 0.60             | 0.49  | 19.46                         | 19.43 | 22.46 | 24.00                           | 24.00 | 4.61     | 4.61  | Pass      |
| VHT20      | MCS0      | 2   | 36  | 5180        | 0.26             | 0.25  | 16.86                         | 16.37 | 19.63 | 24.00                           | 24.00 | 4.61     | 4.61  | Pass      |
| VHT20      | MCS0      | 2   | 44  | 5220        | 0.26             | 0.25  | 16.64                         | 16.40 | 19.53 | 24.00                           | 24.00 | 4.61     | 4.61  | Pass      |
| VHT20      | MCS0      | 2   | 48  | 5240        | 0.26             | 0.25  | 16.63                         | 16.36 | 19.51 | 24.00                           | 24.00 | 4.61     | 4.61  | Pass      |
| VHT40      | MCS0      | 2   | 38  | 5190        | 0.51             | 0.49  | 16.63                         | 15.55 | 19.13 | 24.00                           | 24.00 | 4.61     | 4.61  | Pass      |
| VHT40      | MCS0      | 2   | 46  | 5230        | 0.51             | 0.49  | 19.40                         | 19.39 | 22.40 | 24.00                           | 24.00 | 4.61     | 4.61  | Pass      |
| VHT80      | MCS0      | 2   | 42  | 5210        | 0.70             | 0.69  | 14.11                         | 13.84 | 16.99 | 24.00                           | 24.00 | 4.61     | 4.61  | Pass      |



| FCC Band II |           |     |     |             |                  |       |                               |       |     |                                 |       |          |       |                        |           |
|-------------|-----------|-----|-----|-------------|------------------|-------|-------------------------------|-------|-----|---------------------------------|-------|----------|-------|------------------------|-----------|
| Mod.        | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) |       | Average Conducted Power (dBm) |       |     | FCC Conducted Power Limit (dBm) |       | DG (dBi) |       | 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   | 52  | 5260        | 0.22             | 0.21  | 21.28                         | 21.05 |     | 23.98                           | 23.98 | 4.37     | 4.61  | 30                     | Pass      |
| 11a         | 6Mbps     | 1   | 60  | 5300        | 0.22             | 0.21  | 21.29                         | 18.05 |     | 23.98                           | 23.98 | 4.37     | 4.61  | 30                     | Pass      |
| 11a         | 6Mbps     | 1   | 64  | 5320        | 0.22             | 0.21  | 21.22                         | 20.83 |     | 23.98                           | 23.98 | 4.37     | 4.61  | 30                     | Pass      |
| HT20        | MCS0      | 1   | 52  | 5260        | 0.33             | 0.29  | 21.25                         | 21.53 |     | 23.98                           | 23.98 | 4.37     | 4.61  | 30                     | Pass      |
| HT20        | MCS0      | 1   | 60  | 5300        | 0.33             | 0.29  | 21.26                         | 17.94 |     | 23.98                           | 23.98 | 4.37     | 4.61  | 30                     | Pass      |
| HT20        | MCS0      | 1   | 64  | 5320        | 0.33             | 0.29  | 21.65                         | 20.74 |     | 23.98                           | 23.98 | 4.37     | 4.61  | 30                     | Pass      |
| HT40        | MCS0      | 1   | 54  | 5270        | 0.55             | 0.51  | 21.91                         | 16.73 |     | 23.98                           | 23.98 | 4.37     | 4.61  | 30                     | Pass      |
| HT40        | MCS0      | 1   | 62  | 5310        | 0.55             | 0.51  | 17.43                         | 16.04 |     | 23.98                           | 23.98 | 4.37     | 4.61  | 30                     | Pass      |
| VHT20       | MCS0      | 1   | 52  | 5260        | 0.31             | 0.29  | 21.25                         | 22.09 |     | 23.98                           | 23.98 | 4.37     | 4.61  | 30                     | Pass      |
| VHT20       | MCS0      | 1   | 60  | 5300        | 0.31             | 0.29  | 21.17                         | 17.82 |     | 23.98                           | 23.98 | 4.37     | 4.61  | 30                     | Pass      |
| VHT20       | MCS0      | 1   | 64  | 5320        | 0.31             | 0.29  | 21.62                         | 20.60 |     | 23.98                           | 23.98 | 4.37     | 4.61  | 30                     | Pass      |
| VHT40       | MCS0      | 1   | 54  | 5270        | 0.51             | 0.51  | 21.85                         | 16.69 |     | 23.98                           | 23.98 | 4.37     | 4.61  | 30                     | Pass      |
| VHT40       | MCS0      | 1   | 62  | 5310        | 0.51             | 0.51  | 17.35                         | 15.96 |     | 23.98                           | 23.98 | 4.37     | 4.61  | 30                     | Pass      |
| VHT80       | MCS0      | 1   | 58  | 5290        | 0.69             | 0.66  | 15.57                         | 13.47 |     | 23.98                           | 23.98 | 4.37     | 4.61  | 30                     | Pass      |



| FCC Band II |           |     |     |             |                  |       |                               |       |       |                                 |       |          |       |                        |           |
|-------------|-----------|-----|-----|-------------|------------------|-------|-------------------------------|-------|-------|---------------------------------|-------|----------|-------|------------------------|-----------|
| Mod.        | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) |       | Average Conducted Power (dBm) |       |       | FCC Conducted Power Limit (dBm) |       | DG (dBi) |       | 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     | 2   | 52  | 5260        | 0.19             | 0.19  | 16.43                         | 16.15 | 19.30 | 23.98                           | 23.98 | 4.61     | 30    | Pass                   |           |
| 11a         | 6Mbps     | 2   | 60  | 5300        | 0.19             | 0.19  | 16.44                         | 16.36 | 19.41 | 23.98                           | 23.98 | 4.61     | 30    | Pass                   |           |
| 11a         | 6Mbps     | 2   | 64  | 5320        | 0.19             | 0.19  | 16.23                         | 16.20 | 19.22 | 23.98                           | 23.98 | 4.61     | 30    | Pass                   |           |
| HT20        | MCS0      | 2   | 52  | 5260        | 0.27             | 0.26  | 16.85                         | 16.64 | 19.76 | 23.98                           | 23.98 | 4.61     | 30    | Pass                   |           |
| HT20        | MCS0      | 2   | 60  | 5300        | 0.27             | 0.26  | 16.80                         | 16.78 | 19.80 | 23.98                           | 23.98 | 4.61     | 30    | Pass                   |           |
| HT20        | MCS0      | 2   | 64  | 5320        | 0.27             | 0.26  | 18.17                         | 17.80 | 21.00 | 23.98                           | 23.98 | 4.61     | 30    | Pass                   |           |
| HT40        | MCS0      | 2   | 54  | 5270        | 0.60             | 0.49  | 19.15                         | 18.72 | 21.95 | 23.98                           | 23.98 | 4.61     | 30    | Pass                   |           |
| HT40        | MCS0      | 2   | 62  | 5310        | 0.60             | 0.49  | 15.55                         | 15.00 | 18.30 | 23.98                           | 23.98 | 4.61     | 30    | Pass                   |           |
| VHT20       | MCS0      | 2   | 52  | 5260        | 0.26             | 0.25  | 16.77                         | 16.62 | 19.71 | 23.98                           | 23.98 | 4.61     | 30    | Pass                   |           |
| VHT20       | MCS0      | 2   | 60  | 5300        | 0.26             | 0.25  | 16.68                         | 16.74 | 19.72 | 23.98                           | 23.98 | 4.61     | 30    | Pass                   |           |
| VHT20       | MCS0      | 2   | 64  | 5320        | 0.26             | 0.25  | 18.14                         | 17.77 | 20.97 | 23.98                           | 23.98 | 4.61     | 30    | Pass                   |           |
| VHT40       | MCS0      | 2   | 54  | 5270        | 0.51             | 0.49  | 18.98                         | 18.67 | 21.83 | 23.98                           | 23.98 | 4.61     | 30    | Pass                   |           |
| VHT40       | MCS0      | 2   | 62  | 5310        | 0.51             | 0.49  | 15.47                         | 14.83 | 18.17 | 23.98                           | 23.98 | 4.61     | 30    | Pass                   |           |
| VHT80       | MCS0      | 2   | 58  | 5290        | 0.70             | 0.69  | 10.36                         | 9.56  | 12.99 | 23.98                           | 23.98 | 4.61     | 30    | Pass                   |           |



| FCC Band III |           |     |     |             |                  |       |                               |       |     |                                 |       |          |       |                        |           |
|--------------|-----------|-----|-----|-------------|------------------|-------|-------------------------------|-------|-----|---------------------------------|-------|----------|-------|------------------------|-----------|
| Mod.         | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) |       | Average Conducted Power (dBm) |       |     | FCC Conducted Power Limit (dBm) |       | DG (dBi) |       | 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        | 0.22             | 0.21  | 18.69                         | 20.72 |     | 23.98                           | 23.98 | 4.53     | 4.79  | 30                     | Pass      |
| 11a          | 6Mbps     | 1   | 116 | 5580        | 0.22             | 0.21  | 20.65                         | 20.85 |     | 23.98                           | 23.98 | 4.53     | 4.79  | 30                     | Pass      |
| 11a          | 6Mbps     | 1   | 140 | 5700        | 0.22             | 0.21  | 13.60                         | 19.32 |     | 23.98                           | 23.98 | 4.53     | 4.79  | 30                     | Pass      |
| 11a          | 6Mbps     | 1   | 144 | 5720        | 0.22             | 0.21  | 20.77                         | 20.97 |     | 23.79                           | 23.84 | 4.53     | 4.79  | 30                     | Pass      |
| HT20         | MCS0      | 1   | 100 | 5500        | 0.33             | 0.29  | 18.14                         | 19.62 |     | 23.98                           | 23.98 | 4.53     | 4.79  | 30                     | Pass      |
| HT20         | MCS0      | 1   | 116 | 5580        | 0.33             | 0.29  | 20.65                         | 20.89 |     | 23.98                           | 23.98 | 4.53     | 4.79  | 30                     | Pass      |
| HT20         | MCS0      | 1   | 140 | 5700        | 0.33             | 0.29  | 16.20                         | 18.62 |     | 23.98                           | 23.98 | 4.53     | 4.79  | 30                     | Pass      |
| HT20         | MCS0      | 1   | 144 | 5720        | 0.33             | 0.29  | 19.09                         | 21.31 |     | 23.70                           | 23.98 | 4.53     | 4.79  | 30                     | Pass      |
| HT40         | MCS0      | 1   | 102 | 5510        | 0.55             | 0.51  | 18.00                         | 16.28 |     | 23.98                           | 23.98 | 4.53     | 4.79  | 30                     | Pass      |
| HT40         | MCS0      | 1   | 110 | 5550        | 0.55             | 0.51  | 21.98                         | 22.13 |     | 23.98                           | 23.98 | 4.53     | 4.79  | 30                     | Pass      |
| HT40         | MCS0      | 1   | 134 | 5670        | 0.55             | 0.51  | 20.29                         | 17.62 |     | 23.98                           | 23.98 | 4.53     | 4.79  | 30                     | Pass      |
| HT40         | MCS0      | 1   | 142 | 5710        | 0.55             | 0.51  | 20.97                         | 22.59 |     | 23.98                           | 23.98 | 4.53     | 4.79  | 30                     | Pass      |
| VHT20        | MCS0      | 1   | 100 | 5500        | 0.31             | 0.29  | 18.05                         | 19.56 |     | 23.98                           | 23.98 | 4.53     | 4.79  | 30                     | Pass      |
| VHT20        | MCS0      | 1   | 116 | 5580        | 0.31             | 0.29  | 20.65                         | 20.88 |     | 23.98                           | 23.98 | 4.53     | 4.79  | 30                     | Pass      |
| VHT20        | MCS0      | 1   | 140 | 5700        | 0.31             | 0.29  | 16.15                         | 18.59 |     | 23.98                           | 23.98 | 4.53     | 4.79  | 30                     | Pass      |
| VHT20        | MCS0      | 1   | 144 | 5720        | 0.31             | 0.29  | 19.05                         | 20.90 |     | 23.70                           | 23.98 | 4.53     | 4.79  | 30                     | Pass      |
| VHT40        | MCS0      | 1   | 102 | 5510        | 0.51             | 0.51  | 17.92                         | 16.24 |     | 23.98                           | 23.98 | 4.53     | 4.79  | 30                     | Pass      |
| VHT40        | MCS0      | 1   | 110 | 5550        | 0.51             | 0.51  | 21.89                         | 22.10 |     | 23.98                           | 23.98 | 4.53     | 4.79  | 30                     | Pass      |
| VHT40        | MCS0      | 1   | 134 | 5670        | 0.51             | 0.51  | 20.20                         | 17.59 |     | 23.98                           | 23.98 | 4.53     | 4.79  | 30                     | Pass      |
| VHT40        | MCS0      | 1   | 142 | 5710        | 0.51             | 0.51  | 20.88                         | 22.56 |     | 23.98                           | 23.98 | 4.53     | 4.79  | 30                     | Pass      |
| VHT80        | MCS0      | 1   | 106 | 5530        | 0.69             | 0.66  | 17.31                         | 16.76 |     | 23.98                           | 23.98 | 4.53     | 4.79  | 30                     | Pass      |
| VHT80        | MCS0      | 1   | 122 | 5610        | 0.69             | 0.66  | 21.32                         | 20.74 |     | 23.98                           | 23.98 | 4.53     | 4.79  | 30                     | Pass      |
| VHT80        | MCS0      | 1   | 138 | 5690        | 0.69             | 0.66  | 21.71                         | 21.48 |     | 23.98                           | 23.98 | 4.53     | 4.79  | 30                     | Pass      |



| FCC Band III |           |     |     |             |                  |       |                               |       |       |                                 |       |          |       |                        |           |
|--------------|-----------|-----|-----|-------------|------------------|-------|-------------------------------|-------|-------|---------------------------------|-------|----------|-------|------------------------|-----------|
| Mod.         | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) |       | Average Conducted Power (dBm) |       |       | FCC Conducted Power Limit (dBm) |       | DG (dBi) |       | 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     | 2   | 100 | 5500        | 0.19             | 0.19  | 16.08                         | 16.09 | 19.09 | 23.98                           | 23.98 | 4.79     | 30    | Pass                   |           |
| 11a          | 6Mbps     | 2   | 116 | 5580        | 0.19             | 0.19  | 17.66                         | 16.40 | 20.08 | 23.98                           | 23.98 | 4.79     | 30    | Pass                   |           |
| 11a          | 6Mbps     | 2   | 140 | 5700        | 0.19             | 0.19  | 17.41                         | 16.00 | 19.77 | 23.98                           | 23.98 | 4.79     | 30    | Pass                   |           |
| 11a          | 6Mbps     | 2   | 144 | 5720        | 0.19             | 0.19  | 15.94                         | 15.81 | 18.88 | 23.27                           | 23.27 | 4.79     | 30    | Pass                   |           |
| HT20         | MCS0      | 2   | 100 | 5500        | 0.27             | 0.26  | 15.84                         | 16.01 | 18.94 | 23.98                           | 23.98 | 4.79     | 30    | Pass                   |           |
| HT20         | MCS0      | 2   | 116 | 5580        | 0.27             | 0.26  | 18.22                         | 17.00 | 20.66 | 23.98                           | 23.98 | 4.79     | 30    | Pass                   |           |
| HT20         | MCS0      | 2   | 140 | 5700        | 0.27             | 0.26  | 13.21                         | 13.07 | 16.15 | 23.98                           | 23.98 | 4.79     | 30    | Pass                   |           |
| HT20         | MCS0      | 2   | 144 | 5720        | 0.27             | 0.26  | 16.25                         | 16.38 | 19.33 | 23.38                           | 23.38 | 4.79     | 30    | Pass                   |           |
| HT40         | MCS0      | 2   | 102 | 5510        | 0.60             | 0.49  | 17.82                         | 16.15 | 20.08 | 23.98                           | 23.98 | 4.79     | 30    | Pass                   |           |
| HT40         | MCS0      | 2   | 110 | 5550        | 0.60             | 0.49  | 19.35                         | 19.00 | 22.19 | 23.98                           | 23.98 | 4.79     | 30    | Pass                   |           |
| HT40         | MCS0      | 2   | 134 | 5670        | 0.60             | 0.49  | 18.12                         | 16.55 | 20.42 | 23.98                           | 23.98 | 4.79     | 30    | Pass                   |           |
| HT40         | MCS0      | 2   | 142 | 5710        | 0.60             | 0.49  | 19.18                         | 19.03 | 22.12 | 23.98                           | 23.98 | 4.79     | 30    | Pass                   |           |
| VHT20        | MCS0      | 2   | 100 | 5500        | 0.26             | 0.25  | 15.71                         | 15.92 | 18.83 | 23.98                           | 23.98 | 4.79     | 30    | Pass                   |           |
| VHT20        | MCS0      | 2   | 116 | 5580        | 0.26             | 0.25  | 17.60                         | 17.59 | 20.61 | 23.98                           | 23.98 | 4.79     | 30    | Pass                   |           |
| VHT20        | MCS0      | 2   | 140 | 5700        | 0.26             | 0.25  | 13.17                         | 13.03 | 16.11 | 23.98                           | 23.98 | 4.79     | 30    | Pass                   |           |
| VHT20        | MCS0      | 2   | 144 | 5720        | 0.26             | 0.25  | 15.98                         | 16.21 | 19.11 | 23.44                           | 23.44 | 4.79     | 30    | Pass                   |           |
| VHT40        | MCS0      | 2   | 102 | 5510        | 0.51             | 0.49  | 17.81                         | 16.12 | 20.05 | 23.98                           | 23.98 | 4.79     | 30    | Pass                   |           |
| VHT40        | MCS0      | 2   | 110 | 5550        | 0.51             | 0.49  | 19.26                         | 18.91 | 22.09 | 23.98                           | 23.98 | 4.79     | 30    | Pass                   |           |
| VHT40        | MCS0      | 2   | 134 | 5670        | 0.51             | 0.49  | 18.09                         | 16.46 | 20.36 | 23.98                           | 23.98 | 4.79     | 30    | Pass                   |           |
| VHT40        | MCS0      | 2   | 142 | 5710        | 0.51             | 0.49  | 19.00                         | 18.97 | 21.99 | 23.98                           | 23.98 | 4.79     | 30    | Pass                   |           |
| VHT80        | MCS0      | 2   | 106 | 5530        | 0.70             | 0.69  | 17.56                         | 15.75 | 19.76 | 23.98                           | 23.98 | 4.79     | 30    | Pass                   |           |
| VHT80        | MCS0      | 2   | 122 | 5610        | 0.70             | 0.69  | 20.17                         | 18.59 | 22.46 | 23.98                           | 23.98 | 4.79     | 30    | Pass                   |           |
| VHT80        | MCS0      | 2   | 138 | 5690        | 0.70             | 0.69  | 20.93                         | 19.45 | 23.26 | 23.98                           | 23.98 | 4.79     | 30    | Pass                   |           |



### 3.3 Power Spectral Density Measurement

#### 3.3.1 Limit of Power Spectral Density

##### <FCC 14-30 CFR 15.407>

###### **For the 5.15–5.25 GHz bands:**

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1.0 MHz band. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1.0 MHz band.

###### **For the 5.25–5.725 GHz bands:**

The maximum power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

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

See list of measuring equipment of this test report.



### 3.3.3 Test Procedures

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

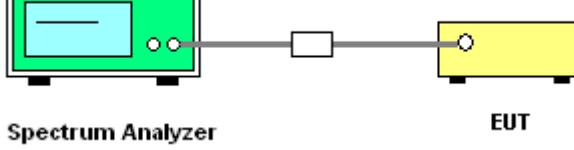
Section F) Maximum power spectral density.

#### # 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  $\geq$  3 MHz.
  - Number of points in sweep  $\geq$  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.
  3. 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.

### 3.3.4 Test Setup





## 3.3.5 Test Result of Power Spectral Density

|                 |                             |                     |         |
|-----------------|-----------------------------|---------------------|---------|
| Test Engineer : | Shiming Liu and Richard Qiu | Temperature :       | 21~25°C |
|                 |                             | Relative Humidity : | 51~54%  |

| Mod.  | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) |       | Average Power Density (dBm/MHz) |       |      | Average PSD Limit (dBm/MHz) |       | DG (dBi) |       | Pass /Fail |
|-------|-----------|-----|-----|-------------|------------------|-------|---------------------------------|-------|------|-----------------------------|-------|----------|-------|------------|
|       |           |     |     |             | Ant 1            | Ant 2 | Ant 1                           | Ant 2 | SUM  | Ant 1                       | Ant 2 | Ant 1    | Ant 2 |            |
|       |           |     |     |             | 0.22             | 0.21  | 10.92                           | 10.97 |      | 11.00                       | 11.00 | 4.23     | 4.61  | Pass       |
| 11a   | 6Mbps     | 1   | 36  | 5180        | 0.22             | 0.21  | 10.92                           | 10.97 |      | 11.00                       | 11.00 | 4.23     | 4.61  | Pass       |
| 11a   | 6Mbps     | 1   | 44  | 5220        | 0.22             | 0.21  | 10.95                           | 10.62 |      | 11.00                       | 11.00 | 4.23     | 4.61  | Pass       |
| 11a   | 6Mbps     | 1   | 48  | 5240        | 0.22             | 0.21  | 10.61                           | 10.69 |      | 11.00                       | 11.00 | 4.23     | 4.61  | Pass       |
| HT20  | MCS0      | 1   | 36  | 5180        | 0.33             | 0.29  | 10.69                           | 10.76 |      | 11.00                       | 11.00 | 4.23     | 4.61  | Pass       |
| HT20  | MCS0      | 1   | 44  | 5220        | 0.33             | 0.29  | 10.92                           | 10.77 |      | 11.00                       | 11.00 | 4.23     | 4.61  | Pass       |
| HT20  | MCS0      | 1   | 48  | 5240        | 0.33             | 0.29  | 10.95                           | 10.53 |      | 11.00                       | 11.00 | 4.23     | 4.61  | Pass       |
| HT40  | MCS0      | 1   | 38  | 5190        | 0.55             | 0.51  | 10.22                           | 10.05 |      | 11.00                       | 11.00 | 4.23     | 4.61  | Pass       |
| HT40  | MCS0      | 1   | 46  | 5230        | 0.55             | 0.51  | 10.27                           | 9.45  |      | 11.00                       | 11.00 | 4.23     | 4.61  | Pass       |
| VHT80 | MCS0      | 1   | 42  | 5210        | 0.69             | 0.66  | 7.22                            | 6.76  |      | 11.00                       | 11.00 | 4.23     | 4.61  | Pass       |
| 11a   | 6Mbps     | 2   | 36  | 5180        | 0.19             | 0.19  |                                 |       | 9.21 | 9.57                        |       | 7.43     |       | Pass       |
| 11a   | 6Mbps     | 2   | 44  | 5220        | 0.19             | 0.19  |                                 |       | 9.26 | 9.57                        |       | 7.43     |       | Pass       |
| 11a   | 6Mbps     | 2   | 48  | 5240        | 0.19             | 0.19  |                                 |       | 9.54 | 9.57                        |       | 7.43     |       | Pass       |
| HT20  | MCS0      | 2   | 36  | 5180        | 0.27             | 0.26  |                                 |       | 9.35 | 9.57                        |       | 7.43     |       | Pass       |
| HT20  | MCS0      | 2   | 44  | 5220        | 0.27             | 0.26  |                                 |       | 9.35 | 9.57                        |       | 7.43     |       | Pass       |
| HT20  | MCS0      | 2   | 48  | 5240        | 0.27             | 0.26  |                                 |       | 9.47 | 9.57                        |       | 7.43     |       | Pass       |
| HT40  | MCS0      | 2   | 38  | 5190        | 0.60             | 0.49  |                                 |       | 9.14 | 9.57                        |       | 7.43     |       | Pass       |
| HT40  | MCS0      | 2   | 46  | 5230        | 0.60             | 0.49  |                                 |       | 9.22 | 9.57                        |       | 7.43     |       | Pass       |
| VHT80 | MCS0      | 2   | 42  | 5210        | 0.70             | 0.69  |                                 |       | 7.33 | 9.57                        |       | 7.43     |       | Pass       |



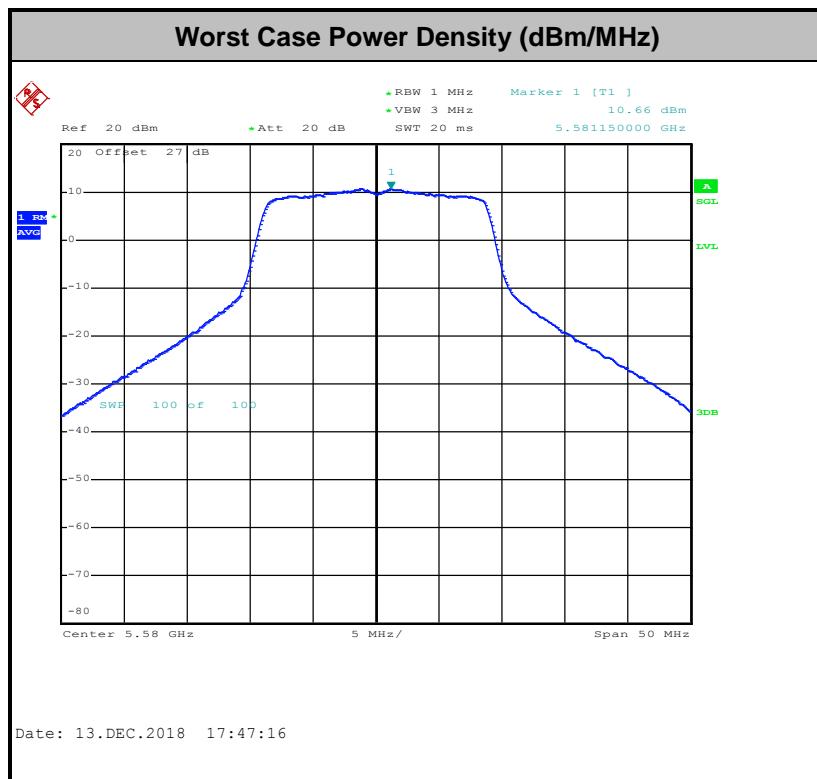
| Mod.  | Data Rate | NTX | CH. | Freq.<br>(MHz) | Duty Factor<br>(dB) |       | Average Power Density<br>(dBm/MHz) |       |     | Average PSD Limit<br>(dBm/MHz) |       | DG (dBi) |       | Pass /Fail |      |  |
|-------|-----------|-----|-----|----------------|---------------------|-------|------------------------------------|-------|-----|--------------------------------|-------|----------|-------|------------|------|--|
|       |           |     |     |                | Ant 1               | Ant 2 | Ant 1                              | Ant 2 | SUM | Ant 1                          | Ant 2 | Ant 1    | Ant 2 |            |      |  |
|       |           |     |     |                |                     |       |                                    |       |     |                                |       |          |       |            |      |  |
| 11a   | 6Mbps     | 1   | 52  | 5260           | 0.22                | 0.21  | 10.95                              | 10.74 |     | 11.00                          | 11.00 | 4.37     | 4.61  | Pass       |      |  |
| 11a   | 6Mbps     | 1   | 60  | 5300           | 0.22                | 0.21  | 10.85                              | 10.94 |     | 11.00                          | 11.00 | 4.37     | 4.61  | Pass       |      |  |
| 11a   | 6Mbps     | 1   | 64  | 5320           | 0.22                | 0.21  | 10.67                              | 10.83 |     | 11.00                          | 11.00 | 4.37     | 4.61  | Pass       |      |  |
| HT20  | MCS0      | 1   | 52  | 5260           | 0.33                | 0.29  | 10.77                              | 10.95 |     | 11.00                          | 11.00 | 4.37     | 4.61  | Pass       |      |  |
| HT20  | MCS0      | 1   | 60  | 5300           | 0.33                | 0.29  | 10.58                              | 10.67 |     | 11.00                          | 11.00 | 4.37     | 4.61  | Pass       |      |  |
| HT20  | MCS0      | 1   | 64  | 5320           | 0.33                | 0.29  | 10.83                              | 10.67 |     | 11.00                          | 11.00 | 4.37     | 4.61  | Pass       |      |  |
| HT40  | MCS0      | 1   | 54  | 5270           | 0.55                | 0.51  | 10.06                              | 9.78  |     | 11.00                          | 11.00 | 4.37     | 4.61  | Pass       |      |  |
| HT40  | MCS0      | 1   | 62  | 5310           | 0.55                | 0.51  | 10.41                              | 9.44  |     | 11.00                          | 11.00 | 4.37     | 4.61  | Pass       |      |  |
| VHT80 | MCS0      | 1   | 58  | 5290           | 0.69                | 0.66  | 7.44                               | 6.56  |     | 11.00                          | 11.00 | 4.37     | 4.61  | Pass       |      |  |
| 11a   | 6Mbps     | 2   | 52  | 5260           | 0.19                | 0.19  |                                    |       |     | 9.48                           | 9.50  |          | 7.50  |            | Pass |  |
| 11a   | 6Mbps     | 2   | 60  | 5300           | 0.19                | 0.19  |                                    |       |     | 9.45                           | 9.50  |          | 7.50  |            | Pass |  |
| 11a   | 6Mbps     | 2   | 64  | 5320           | 0.19                | 0.19  |                                    |       |     | 9.34                           | 9.50  |          | 7.50  |            | Pass |  |
| HT20  | MCS0      | 2   | 52  | 5260           | 0.27                | 0.26  |                                    |       |     | 9.49                           | 9.50  |          | 7.50  |            | Pass |  |
| HT20  | MCS0      | 2   | 60  | 5300           | 0.27                | 0.26  |                                    |       |     | 8.89                           | 9.50  |          | 7.50  |            | Pass |  |
| HT20  | MCS0      | 2   | 64  | 5320           | 0.27                | 0.26  |                                    |       |     | 9.39                           | 9.50  |          | 7.50  |            | Pass |  |
| HT40  | MCS0      | 2   | 54  | 5270           | 0.60                | 0.49  |                                    |       |     | 9.43                           | 9.50  |          | 7.50  |            | Pass |  |
| HT40  | MCS0      | 2   | 62  | 5310           | 0.60                | 0.49  |                                    |       |     | 9.28                           | 9.50  |          | 7.50  |            | Pass |  |
| VHT80 | MCS0      | 2   | 58  | 5290           | 0.70                | 0.69  |                                    |       |     | 6.39                           | 9.50  |          | 7.50  |            | Pass |  |



| Mod.  | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) |       | Average Power Density (dBm/MHz) |       |     | Average PSD Limit (dBm/MHz) |       | DG (dBi) |       | Pass /Fail |
|-------|-----------|-----|-----|-------------|------------------|-------|---------------------------------|-------|-----|-----------------------------|-------|----------|-------|------------|
|       |           |     |     |             | Ant 1            | Ant 2 | Ant 1                           | Ant 2 | SUM | Ant 1                       | Ant 2 | Ant 1    | Ant 2 |            |
|       |           |     |     |             |                  |       |                                 |       |     |                             |       |          |       |            |
| 11a   | 6Mbps     | 1   | 100 | 5500        | 0.22             | 0.21  | 10.86                           | 10.79 |     | 11.00                       | 11.00 | 4.53     | 4.79  | Pass       |
| 11a   | 6Mbps     | 1   | 116 | 5580        | 0.22             | 0.21  | 10.71                           | 10.89 |     | 11.00                       | 11.00 | 4.53     | 4.79  | Pass       |
| 11a   | 6Mbps     | 1   | 140 | 5700        | 0.22             | 0.21  | 10.67                           | 10.85 |     | 11.00                       | 11.00 | 4.53     | 4.79  | Pass       |
| 11a   | 6Mbps     | 1   | 144 | 5720        | 0.22             | 0.21  | 10.65                           | 10.86 |     | 11.00                       | 11.00 | 4.53     | 4.79  | Pass       |
| HT20  | MCS0      | 1   | 100 | 5500        | 0.33             | 0.29  | 10.71                           | 10.77 |     | 11.00                       | 11.00 | 4.53     | 4.79  | Pass       |
| HT20  | MCS0      | 1   | 116 | 5580        | 0.33             | 0.29  | 10.99                           | 10.82 |     | 11.00                       | 11.00 | 4.53     | 4.79  | Pass       |
| HT20  | MCS0      | 1   | 140 | 5700        | 0.33             | 0.29  | 10.51                           | 10.93 |     | 11.00                       | 11.00 | 4.53     | 4.79  | Pass       |
| HT20  | MCS0      | 1   | 144 | 5720        | 0.33             | 0.29  | 10.51                           | 10.98 |     | 11.00                       | 11.00 | 4.53     | 4.79  | Pass       |
| HT40  | MCS0      | 1   | 102 | 5510        | 0.55             | 0.51  | 10.98                           | 10.31 |     | 11.00                       | 11.00 | 4.53     | 4.79  | Pass       |
| HT40  | MCS0      | 1   | 110 | 5550        | 0.55             | 0.51  | 10.97                           | 10.75 |     | 11.00                       | 11.00 | 4.53     | 4.79  | Pass       |
| HT40  | MCS0      | 1   | 134 | 5670        | 0.55             | 0.51  | 10.24                           | 10.55 |     | 11.00                       | 11.00 | 4.53     | 4.79  | Pass       |
| HT40  | MCS0      | 1   | 142 | 5710        | 0.55             | 0.51  | 10.43                           | 9.66  |     | 11.00                       | 11.00 | 4.53     | 4.79  | Pass       |
| VHT80 | MCS0      | 1   | 106 | 5530        | 0.69             | 0.66  | 8.02                            | 7.55  |     | 11.00                       | 11.00 | 4.53     | 4.79  | Pass       |
| VHT80 | MCS0      | 1   | 122 | 5610        | 0.69             | 0.66  | 7.94                            | 7.57  |     | 11.00                       | 11.00 | 4.53     | 4.79  | Pass       |
| VHT80 | MCS0      | 1   | 138 | 5690        | 0.69             | 0.66  | 7.48                            | 7.34  |     | 11.00                       | 11.00 | 4.53     | 4.79  | Pass       |



| Mod.  | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) |       | Average Power Density (dBm/MHz) |       |      | Average PSD Limit (dBm/MHz) |       |       | DG (dBi) |       | Pass /Fail |
|-------|-----------|-----|-----|-------------|------------------|-------|---------------------------------|-------|------|-----------------------------|-------|-------|----------|-------|------------|
|       |           |     |     |             | Ant 1            | Ant 2 | Ant 1                           | Ant 2 | SUM  | Ant 1                       | Ant 2 | Ant 1 | Ant 2    | Ant 1 | Ant 2      |
|       |           |     |     |             |                  |       |                                 |       |      |                             |       |       |          |       |            |
| 11a   | 6Mbps     | 2   | 100 | 5500        | 0.19             | 0.19  | 9.26                            | 9.33  | 7.67 | Pass                        |       |       |          |       |            |
| 11a   | 6Mbps     | 2   | 116 | 5580        | 0.19             | 0.19  |                                 |       |      |                             |       |       |          |       |            |
| 11a   | 6Mbps     | 2   | 140 | 5700        | 0.19             | 0.19  |                                 |       |      |                             |       |       |          |       |            |
| 11a   | 6Mbps     | 2   | 144 | 5720        | 0.19             | 0.19  |                                 |       |      |                             |       |       |          |       |            |
| HT20  | MCS0      | 2   | 100 | 5500        | 0.27             | 0.26  |                                 |       |      |                             |       |       |          |       |            |
| HT20  | MCS0      | 2   | 116 | 5580        | 0.27             | 0.26  |                                 |       |      |                             |       |       |          |       |            |
| HT20  | MCS0      | 2   | 140 | 5700        | 0.27             | 0.26  |                                 |       |      |                             |       |       |          |       |            |
| HT20  | MCS0      | 2   | 144 | 5720        | 0.27             | 0.26  |                                 |       |      |                             |       |       |          |       |            |
| HT40  | MCS0      | 2   | 102 | 5510        | 0.60             | 0.49  |                                 |       |      |                             |       |       |          |       |            |
| HT40  | MCS0      | 2   | 110 | 5550        | 0.60             | 0.49  |                                 |       |      |                             |       |       |          |       |            |
| HT40  | MCS0      | 2   | 134 | 5670        | 0.60             | 0.49  |                                 |       |      |                             |       |       |          |       |            |
| HT40  | MCS0      | 2   | 142 | 5710        | 0.60             | 0.49  |                                 |       |      |                             |       |       |          |       |            |
| VHT80 | MCS0      | 2   | 106 | 5530        | 0.70             | 0.69  |                                 |       |      |                             |       |       |          |       |            |
| VHT80 | MCS0      | 2   | 122 | 5610        | 0.70             | 0.69  |                                 |       |      |                             |       |       |          |       |            |
| VHT80 | MCS0      | 2   | 138 | 5690        | 0.70             | 0.69  |                                 |       |      |                             |       |       |          |       |            |



**Note:** Average Power Density (dB) = Measured value+ Duty Factor



### 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.

#### 3.4.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27dBm/MHz.

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<br>(MHz) | Field Strength<br>(microvolts/meter) | Measurement Distance<br>(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                                |

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

$$E = \frac{1000000\sqrt{30P}}{3} \quad \mu V/m, \text{ where } P \text{ is the eirp (Watts)}$$

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



(3) KDB789033 D02 v02r01 G)2)c)

- (i) Section 15.407(b)(1) to (b)(3) specify the unwanted emission limits for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz.<sup>3</sup>
- (ii) Section 15.407(b)(4) specifies the unwanted emission limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are in terms of a Peak detector. An alternative to the band emissions mask is specified in Section 15.407(b)(4)(ii). The alternative limits are based on the highest antenna gain specified in the filing. There are also marketing and importation restrictions for the devices using the alternative limit.<sup>4</sup>

**Note 3:** An out-of-band emission that complies with both the average and peak limits of Section 15.209 is not required to satisfy the -27 dBm/MHz peak emission limit.

**Note 4:** Only devices with antenna gains of 10 dBi or less may be approved using the emission limits specified in Section 15.247(d) till March 2, 2018; all other devices operating in this band must use the mask specified in Section 15.407(b)(4)(i).

### 3.4.2 Measuring Instruments

See list of measuring equipment of this test report.

### 3.4.3 Test Procedures

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

(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  $\geq$  3 MHz
- Detector = Peak
- Sweep time = auto
- Trace mode = max hold

(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

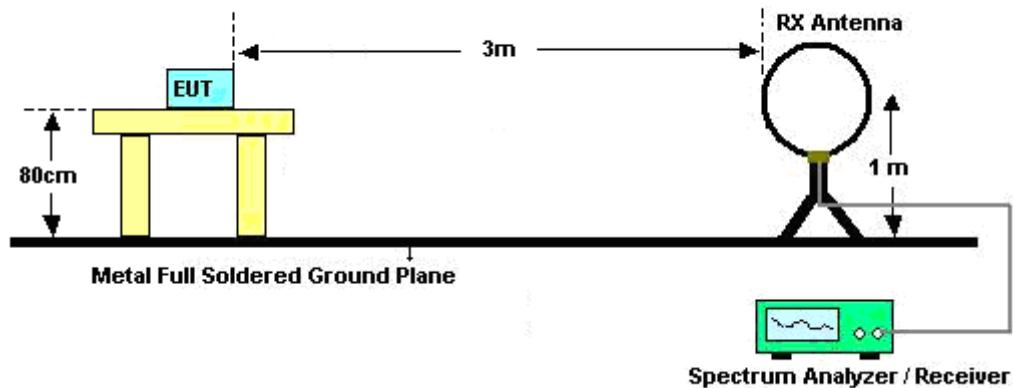
- RBW = 1 MHz
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- VBW  $\geq$  1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.



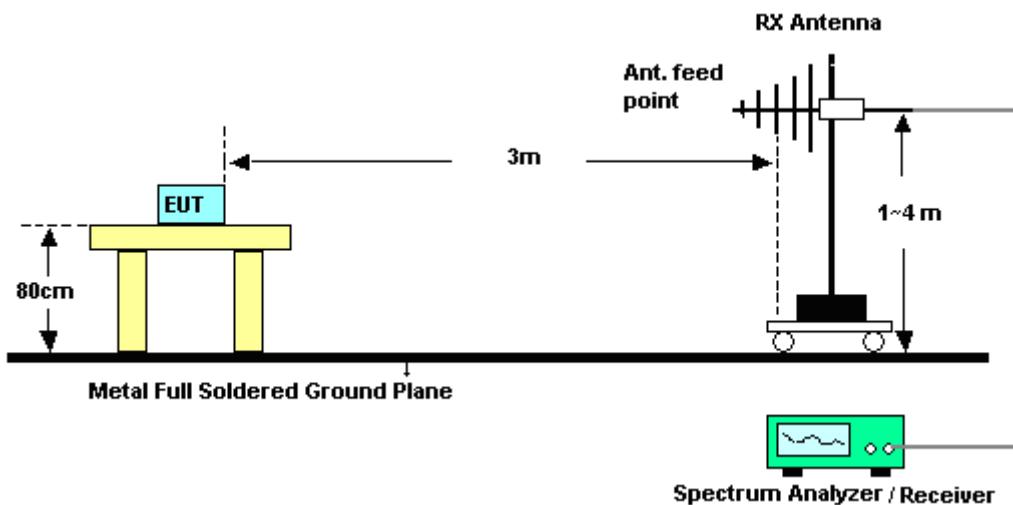
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband 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.

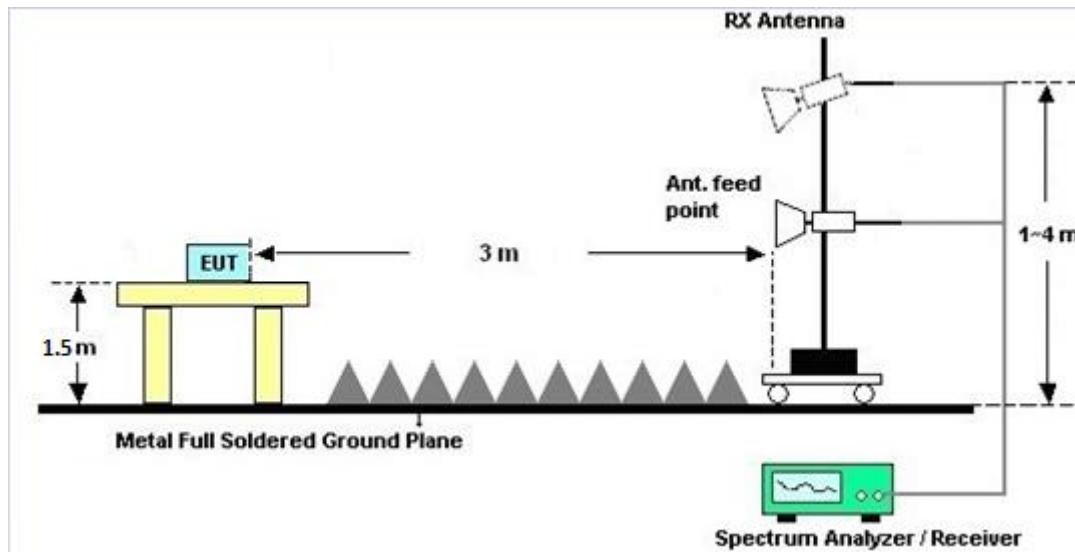
### 3.4.4 Test Setup

For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



**For radiated emissions above 1GHz****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 alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

**3.4.6 Test Result of Radiated Spurious at Band Edges**

Please refer to Appendix B and 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 B and C.



## 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.

| Frequency of emission (MHz) | Conducted limit (dB $\mu$ V) |           |
|-----------------------------|------------------------------|-----------|
|                             | 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.

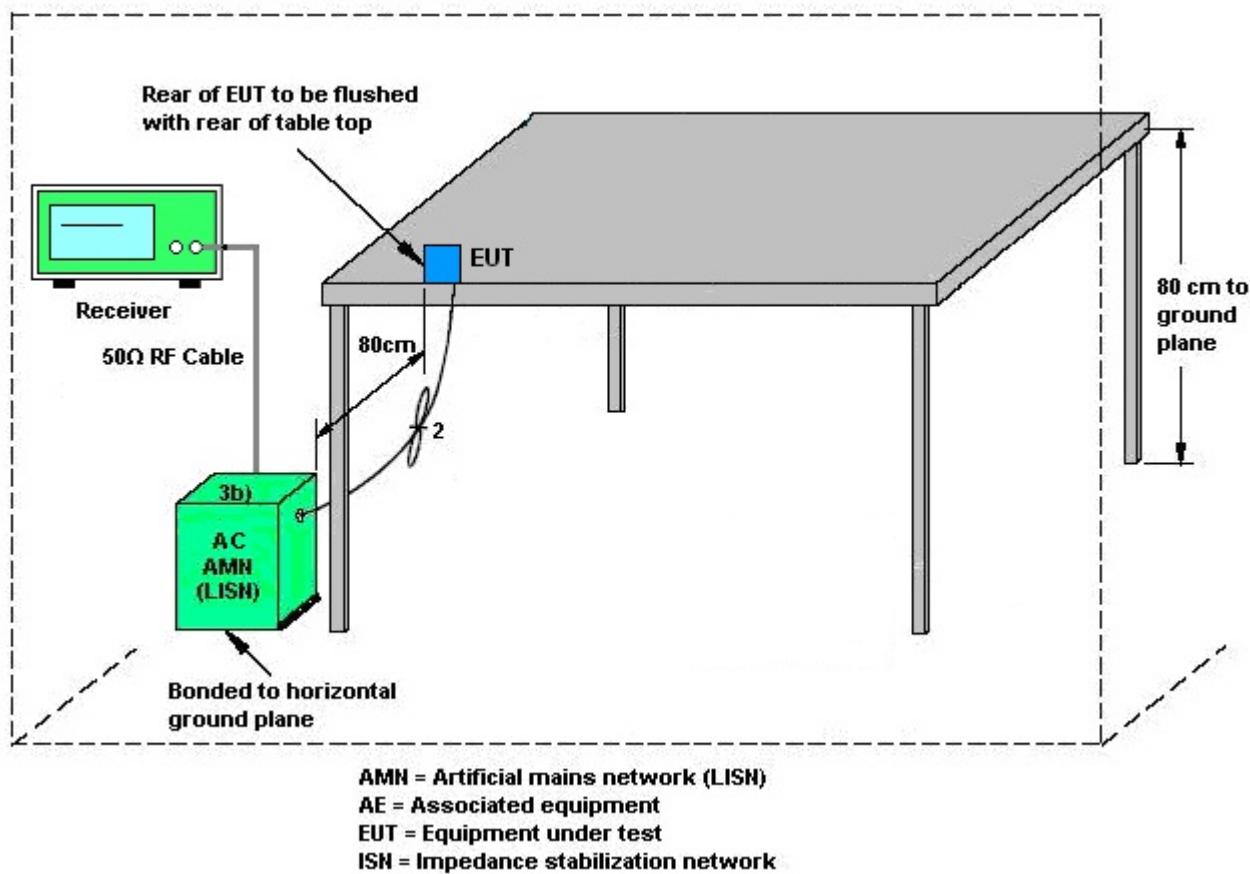
### 3.5.2 Measuring Instruments

See list of measuring equipment of this test report.

### 3.5.3 Test Procedures

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.

### 3.5.4 Test Setup



### 3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix A.



## 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.

### 3.6.2 Measuring Instruments

See list of measuring equipment 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.



## 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.

### 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  $NANT \leq 4$ .

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 Modes> |                 |                 |                             |                           |                        |                      |
|-------------|-----------------|-----------------|-----------------------------|---------------------------|------------------------|----------------------|
|             | Ant. 1<br>(dBi) | Ant. 2<br>(dBi) | DG<br>for<br>Power<br>(dBi) | DG<br>for<br>PSD<br>(dBi) | Power<br>Limit<br>(dB) | PSD<br>Limit<br>(dB) |
|             | Ant. 1<br>(dBi) | Ant. 2<br>(dBi) | Power<br>(dBi)              | PSD<br>(dBi)              | Reduction<br>(dB)      | Reduction<br>(dB)    |
| Band I      | 4.23            | 4.61            | 4.61                        | 7.43                      | 0.00                   | 1.43                 |
| Band II     | 4.37            | 4.61            | 4.61                        | 7.50                      | 0.00                   | 1.50                 |
| Band III    | 4.53            | 4.79            | 4.79                        | 7.67                      | 0.00                   | 1.67                 |

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

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



## 4 List of Measuring Equipment

| Instrument            | Manufacturer    | Model No.                    | Serial No.        | Characteristics | Calibration Date | Test Date                   | Due Date      | Remark                |
|-----------------------|-----------------|------------------------------|-------------------|-----------------|------------------|-----------------------------|---------------|-----------------------|
| Power Meter           | Anritsu         | ML2495A                      | 1132003           | N/A             | Aug. 16, 2018    | Nov. 23, 2018~Mar. 26, 2019 | Aug. 15, 2019 | Conducted (TH05-HY)   |
| Power Sensor          | Anritsu         | MA2411B                      | 1126017           | 300MHz~40GHz    | Aug. 16, 2018    | Nov. 23, 2018~Mar. 26, 2019 | Aug. 15, 2019 | Conducted (TH05-HY)   |
| Spectrum Analyzer     | Rohde & Schwarz | FSP40                        | 100057            | 9kHz-40GHz      | Nov. 21, 2018    | Nov. 23, 2018~Mar. 26, 2019 | Nov. 20, 2019 | Conducted (TH05-HY)   |
| Switch Box & RF Cable | Burgeon         | ETF-058                      | EC1300484         | N/A             | Apr. 17, 2018    | Nov. 23, 2018~Mar. 26, 2019 | Apr. 16, 2019 | Conducted (TH05-HY)   |
| AC Power Source       | ChainTek        | APC-1000W                    | N/A               | N/A             | N/A              | Dec. 27, 2018               | N/A           | Conduction (CO05-HY)  |
| EMI Test Receiver     | Rohde & Schwarz | ESR3                         | 102388            | 9KHz~3.6GHz     | Nov. 12, 2018    | Dec. 27, 2018               | Nov. 11, 2019 | Conduction (CO05-HY)  |
| LISN                  | Rohde & Schwarz | ENV216                       | 100080            | 9kHz~30MHz      | Nov. 14, 2018    | Dec. 27, 2018               | Nov. 13, 2019 | Conduction (CO05-HY)  |
| LISN                  | Rohde & Schwarz | ENV216                       | 100081            | 9kHz~30MHz      | Nov. 09, 2018    | Dec. 27, 2018               | Nov. 08, 2019 | Conduction (CO05-HY)  |
| Software              | Rohde & Schwarz | EMC32 V10.30                 | N/A               | N/A             | N/A              | Dec. 27, 2018               | N/A           | Conduction (CO05-HY)  |
| LF Cable              | HUBER + SUHNER  | RG-214/U                     | LF01              | N/A             | Jan. 03, 2018    | Dec. 27, 2018               | Jan. 02, 2019 | Conduction (CO05-HY)  |
| Pulse Limiter         | Rohde & Schwarz | ESH3-Z2                      | 100851            | N/A             | Jan. 03, 2018    | Dec. 27, 2018               | Jan. 02, 2019 | Conduction (CO05-HY)  |
| Loop Antenna          | TESEQ           | HLA 6120                     | 31244             | 9 kHz-30 MHz    | Mar. 29, 2018    | Nov. 27, 2018~Feb. 05, 2019 | Mar. 28, 2019 | Radiation (03CH12-HY) |
| Bilog Antenna         | TESEQ           | CBL 6111D&00800 N1D01N-06    | 37059&01          | 30MHz~1GHz      | Oct. 13, 2018    | Nov. 27, 2018~Feb. 05, 2019 | Oct. 12, 2019 | Radiation (03CH12-HY) |
| Horn Antenna          | SCHWARZBECK     | BBHA 9120D                   | 9120D-1328        | 1GHz ~ 18GHz    | Oct. 19, 2018    | Nov. 27, 2018~Feb. 05, 2019 | Oct. 18, 2019 | Radiation (03CH12-HY) |
| SHF-EHF Horn Antenna  | SCHWARZBECK     | BBHA 9170                    | BBHA9170 576      | 18GHz ~ 40GHz   | May 08, 2018     | Nov. 27, 2018~Feb. 05, 2019 | May 07, 2019  | Radiation (03CH12-HY) |
| Preamplifier          | COM-POWER       | PA-103                       | 161075            | 10MHz~1GHz      | Mar. 26, 2018    | Nov. 27, 2018~Feb. 05, 2019 | Mar. 25, 2019 | Radiation (03CH12-HY) |
| Preamplifier          | Agilent         | 8449B                        | 3008A02375        | 1GHz~26.5GHz    | May 28, 2018     | Nov. 27, 2018~Feb. 05, 2019 | May 27, 2019  | Radiation (03CH12-HY) |
| Preamplifier          | Jet-Power       | JPA0118-55-3 03K             | 171000180 0054002 | 1GHz~18GHz      | Apr. 17, 2018    | Nov. 27, 2018~Feb. 05, 2019 | Apr. 16, 2019 | Radiation (03CH12-HY) |
| Preamplifier          | MITEQ           | TTA1840-35-HG                | 1864481           | 18GHz ~ 40GHz   | Aug. 24, 2018    | Nov. 27, 2018~Feb. 05, 2019 | Aug. 23, 2019 | Radiation (03CH12-HY) |
| Spectrum Analyzer     | Rohde & Schwarz | FSV30                        | 103738            | 9kHz~30GHz      | May 22, 2018     | Nov. 27, 2018~Feb. 05, 2019 | May 21, 2019  | Radiation (03CH12-HY) |
| Spectrum Analyzer     | Keysight        | N9010A                       | MY553705 26       | 10Hz~44GHz      | Mar. 15, 2018    | Nov. 27, 2018~Feb. 05, 2019 | Mar. 14, 2019 | Radiation (03CH12-HY) |
| Filter                | Wainwright      | WLKS1200-1 2SS               | SN2               | 1.2GHz Low Pass | Mar. 21, 2018    | Nov. 27, 2018~Feb. 05, 2019 | Mar. 20, 2019 | Radiation (03CH12-HY) |
| Filter                | Woken           | WHKX8-5272.5-6750-18000-40ST | SN2               | 6.75G Highpass  | Mar.21, 2018     | Nov. 27, 2018~Feb. 05, 2019 | Mar .20, 2019 | Radiation (03CH12-HY) |

**FCC RADIO TEST REPORT**

Report No. : FR8N0846D

| Instrument   | Manufacturer   | Model No.         | Serial No.    | Characteristics | Calibration Date | Test Date                   | Due Date      | Remark                |
|--------------|----------------|-------------------|---------------|-----------------|------------------|-----------------------------|---------------|-----------------------|
| RF Cable     | HUBER + SUHNER | SUCOFLEX 126E     | 0058/126E     | 30M-18G         | Mar. 14, 2018    | Nov. 27, 2018~Feb. 05, 2019 | Mar. 13, 2019 | Radiation (03CH12-HY) |
| RF Cable     | HUBER + SUHNER | SUCOFLEX 102      | 505134/2      | 30M~40GHz       | Oct. 16, 2018    | Nov. 27, 2018~Feb. 05, 2019 | Oct. 15, 2019 | Radiation (03CH12-HY) |
| RF Cable     | HUBER + SUHNER | SUCOFLEX 102      | 800740/2      | 30M~40GHz       | Oct. 16, 2018    | Nov. 27, 2018~Feb. 05, 2019 | Oct. 15, 2019 | Radiation (03CH12-HY) |
| Antenna Mast | EMEC           | AM-BS-4500-B      | N/A           | 1m~4m           | N/A              | Nov. 27, 2018~Feb. 05, 2019 | N/A           | Radiation (03CH12-HY) |
| Turn Table   | EMEC           | TT2000            | N/A           | 0~360 Degree    | N/A              | Nov. 27, 2018~Feb. 05, 2019 | N/A           | Radiation (03CH12-HY) |
| Software     | Audix          | E3<br>6.2009-8-24 | RK-00098<br>9 | N/A             | N/A              | Nov. 27, 2018~Feb. 05, 2019 | N/A           | Radiation (03CH12-HY) |



## 5 Uncertainty of Evaluation

### Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

|   |     |
|---|-----|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2U_{C(y)}$ ) | 2.2 |
|---|-----|

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

|   |     |
|---|-----|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2U_{C(y)}$ ) | 5.1 |
|---|-----|

### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

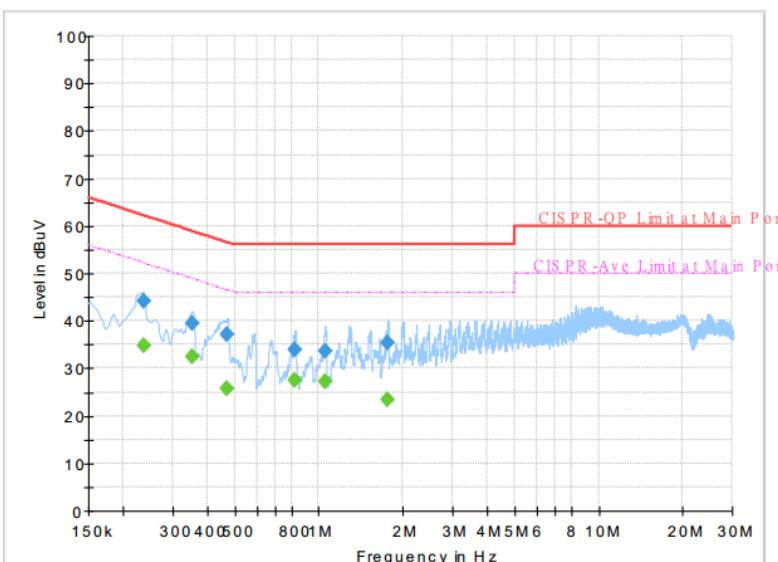
|   |     |
|---|-----|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2U_{C(y)}$ ) | 5.2 |
|---|-----|

### Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

|   |     |
|---|-----|
| Measuring Uncertainty for a Level of Confidence<br>of 95% ( $U = 2U_{C(y)}$ ) | 4.7 |
|---|-----|

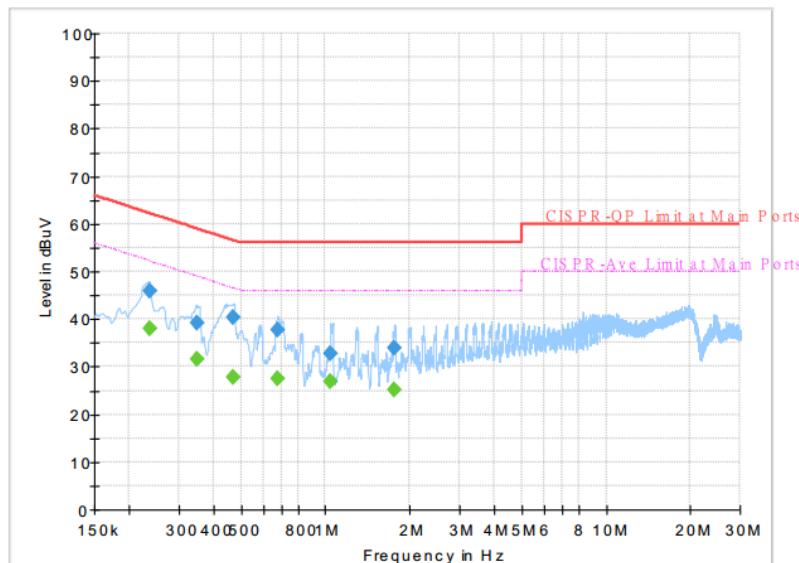


## Appendix A. AC Conducted Emission Test Results

| <b>Test Engineer :</b>  | Rick Lin         | <b>Temperature :</b>       |              | 23~24°C     |      |        |            |
|---|------------------|----------------------------|--------------|-------------|------|--------|------------|
|   |                  | <b>Relative Humidity :</b> |              | 56~58%      |      |        |            |
| <b>Test Voltage :</b>   | 120Vac / 60Hz    | <b>Phase :</b>             |              | Line        |      |        |            |
|  |                  |                            |              |             |      |        |            |
| <b>Final Result :</b>   |                  |                            |              |             |      |        |            |
| Frequency (MHz)   | QuasiPeak (dBuV) | CAverage (dBuV)            | Limit (dBuV) | Margin (dB) | Line | Filter | Corr. (dB) |
| 0.235500  | ---              | 34.74                      | 52.25        | 17.51       | L1   | OFF    | 19.5       |
| 0.235500  | 44.11            | ---                        | 62.25        | 18.14       | L1   | OFF    | 19.5       |
| 0.352500  | ---              | 32.43                      | 48.90        | 16.47       | L1   | OFF    | 19.5       |
| 0.352500  | 39.34            | ---                        | 58.90        | 19.56       | L1   | OFF    | 19.5       |
| 0.469500  | ---              | 25.62                      | 46.52        | 20.90       | L1   | OFF    | 19.5       |
| 0.469500  | 37.21            | ---                        | 56.52        | 19.31       | L1   | OFF    | 19.5       |
| 0.822750  | ---              | 27.58                      | 46.00        | 18.42       | L1   | OFF    | 19.5       |
| 0.822750  | 34.04            | ---                        | 56.00        | 21.96       | L1   | OFF    | 19.5       |
| 1.050000  | ---              | 27.29                      | 46.00        | 18.71       | L1   | OFF    | 19.5       |
| 1.050000  | 33.66            | ---                        | 56.00        | 22.34       | L1   | OFF    | 19.5       |
| 1.767750  | ---              | 23.54                      | 46.00        | 22.46       | L1   | OFF    | 19.6       |
| 1.767750  | 35.44            | ---                        | 56.00        | 20.56       | L1   | OFF    | 19.6       |



|                        |               |                            |         |
|------------------------|---------------|----------------------------|---------|
| <b>Test Engineer :</b> | Rick Lin      | <b>Temperature :</b>       | 23~24°C |
| <b>Test Voltage :</b>  | 120Vac / 60Hz | <b>Relative Humidity :</b> | 56~58%  |
| <b>Phase :</b>         |               | <b>Phase :</b>             | Neutral |

**Final Result :**

| Frequency (MHz) | QuasiPeak (dBuV) | CAverage (dBuV) | Limit (dBuV) | Margin (dB) | Line | Filter | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|------|--------|------------|
| 0.235500        | ---              | 37.94           | 52.25        | 14.31       | N    | OFF    | 19.5       |
| 0.235500        | 45.87            | ---             | 62.25        | 16.38       | N    | OFF    | 19.5       |
| 0.348000        | ---              | 31.54           | 49.01        | 17.47       | N    | OFF    | 19.5       |
| 0.348000        | 39.30            | ---             | 59.01        | 19.71       | N    | OFF    | 19.5       |
| 0.469500        | ---              | 27.75           | 46.52        | 18.77       | N    | OFF    | 19.5       |
| 0.469500        | 40.40            | ---             | 56.52        | 16.12       | N    | OFF    | 19.5       |
| 0.674250        | ---              | 27.46           | 46.00        | 18.54       | N    | OFF    | 19.5       |
| 0.674250        | 37.65            | ---             | 56.00        | 18.35       | N    | OFF    | 19.5       |
| 1.045500        | ---              | 27.04           | 46.00        | 18.96       | N    | OFF    | 19.5       |
| 1.045500        | 32.87            | ---             | 56.00        | 23.13       | N    | OFF    | 19.5       |
| 1.765500        | ---              | 25.05           | 46.00        | 20.95       | N    | OFF    | 19.6       |
| 1.765500        | 33.87            | ---             | 56.00        | 22.13       | N    | OFF    | 19.6       |



## Appendix B. Radiated Spurious Emission

|                 |  |                     |  |         |  |
|-----------------|--|---------------------|--|---------|--|
| Test Engineer : | Jack Cheng , Lance Chiang, and Chuan Chu | Temperature :       |  | 22~24°C |  |
|                 |  | Relative Humidity : |  | 56~60%  |  |

&lt;For Antenna 1&gt;

&lt;Chain 1&gt;

### Band 1 - 5150~5250MHz

#### WIFI 802.11a (Band Edge @ 3m)

| WIFI                        | Note | Frequency | Level            | Over Limit | Limit Line       | Read Level     | Antenna Factor | Path Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol.  |
|-----------------------------|------|-----------|------------------|------------|------------------|----------------|----------------|-----------|---------------|---------|-----------|-----------|-------|
|                             |      | ( MHz )   | ( dB $\mu$ V/m ) | ( dB )     | ( dB $\mu$ V/m ) | ( dB $\mu$ V ) | ( dB/m )       | ( dB )    | ( dB )        | ( cm )  | ( deg )   | (P/A)     | (H/V) |
| 802.11a<br>CH 36<br>5180MHz |      | 5147.94   | 69.13            | -4.87      | 74               | 58.39          | 31.9           | 9.98      | 31.14         | 288     | 147       | P         | H     |
|                             |      | 5150      | 52.61            | -1.39      | 54               | 41.87          | 31.9           | 9.98      | 31.14         | 288     | 147       | A         | H     |
|                             | *    | 5180      | 119.37           | -          | -                | 108.71         | 31.78          | 10.02     | 31.14         | 288     | 147       | P         | H     |
|                             | *    | 5180      | 108.17           | -          | -                | 97.51          | 31.78          | 10.02     | 31.14         | 288     | 147       | A         | H     |
|                             |      |           |                  |            |                  |                |                |           |               |         |           |           | H     |
|                             |      | 5148.98   | 64.24            | -9.76      | 74               | 53.5           | 31.9           | 9.98      | 31.14         | 100     | 121       | P         | V     |
|                             |      | 5150      | 47.89            | -6.11      | 54               | 37.15          | 31.9           | 9.98      | 31.14         | 100     | 121       | A         | V     |
|                             | *    | 5180      | 113.3            | -          | -                | 102.64         | 31.78          | 10.02     | 31.14         | 100     | 121       | P         | V     |
|                             | *    | 5180      | 102.09           | -          | -                | 91.43          | 31.78          | 10.02     | 31.14         | 100     | 121       | A         | V     |
| 802.11a<br>CH 44<br>5220MHz |      | 5149.5    | 59.37            | -14.63     | 74               | 48.63          | 31.9           | 9.98      | 31.14         | 283     | 146       | P         | H     |
|                             |      | 5148.72   | 44.31            | -9.69      | 54               | 33.57          | 31.9           | 9.98      | 31.14         | 283     | 146       | A         | H     |
|                             | *    | 5220      | 119.44           | -          | -                | 108.94         | 31.58          | 10.06     | 31.14         | 283     | 146       | P         | H     |
|                             | *    | 5220      | 108.29           | -          | -                | 97.79          | 31.58          | 10.06     | 31.14         | 283     | 146       | A         | H     |
|                             |      | 5413.24   | 54.85            | -19.15     | 74               | 44.24          | 31.55          | 10.21     | 31.15         | 283     | 146       | P         | H     |
|                             |      | 5452.72   | 43.05            | -10.95     | 54               | 32.23          | 31.71          | 10.26     | 31.15         | 283     | 146       | A         | H     |
|                             |      | 5148.2    | 54.47            | -19.53     | 74               | 43.73          | 31.9           | 9.98      | 31.14         | 108     | 124       | P         | V     |
|                             |      | 5150      | 42.57            | -11.43     | 54               | 31.83          | 31.9           | 9.98      | 31.14         | 108     | 124       | A         | V     |
|                             | *    | 5220      | 113.03           | -          | -                | 102.53         | 31.58          | 10.06     | 31.14         | 108     | 124       | P         | V     |
|                             | *    | 5220      | 102.07           | -          | -                | 91.57          | 31.58          | 10.06     | 31.14         | 108     | 124       | A         | V     |
|                             |      | 5444.04   | 54.03            | -19.97     | 74               | 43.25          | 31.68          | 10.25     | 31.15         | 108     | 124       | P         | V     |
|                             |      | 5452.72   | 41.78            | -12.22     | 54               | 30.96          | 31.71          | 10.26     | 31.15         | 108     | 124       | A         | V     |



| 802.11a<br>CH 48<br>5240MHz |   | 5147.94 | 56.98  | -17.02 | 74 | 46.24 | 31.9  | 9.98  | 31.14 | 256 | 330 | P | H |
|-----------------------------|---|---------|--------|--------|----|-------|-------|-------|-------|-----|-----|---|---|
|                             |   | 5149.24 | 43.54  | -10.46 | 54 | 32.8  | 31.9  | 9.98  | 31.14 | 256 | 330 | A | H |
|                             | *   | 5240    | 119.19 | -      | -  | 108.8 | 31.46 | 10.07 | 31.14 | 256 | 330 | P | H |
|                             | *   | 5240    | 108.09 | -      | -  | 97.7  | 31.46 | 10.07 | 31.14 | 256 | 330 | A | H |
|                             |   | 5360.32 | 56.43  | -17.57 | 74 | 46.07 | 31.34 | 10.17 | 31.15 | 256 | 330 | P | H |
|                             |   | 5351.08 | 43.36  | -10.64 | 54 | 33.05 | 31.3  | 10.16 | 31.15 | 256 | 330 | A | H |
|                             |   | 5123.76 | 53.7   | -20.3  | 74 | 42.94 | 31.95 | 9.95  | 31.14 | 112 | 301 | P | V |
|                             |   | 5149.24 | 41.87  | -12.13 | 54 | 31.13 | 31.9  | 9.98  | 31.14 | 112 | 301 | A | V |
|                             | *   | 5240    | 113.29 | -      | -  | 102.9 | 31.46 | 10.07 | 31.14 | 112 | 301 | P | V |
|                             | *   | 5240    | 102.29 | -      | -  | 91.9  | 31.46 | 10.07 | 31.14 | 112 | 301 | A | V |
|                             |   | 5424.44 | 53.8   | -20.2  | 74 | 43.12 | 31.6  | 10.23 | 31.15 | 112 | 301 | P | V |
|                             |   | 5443.2  | 42.01  | -11.99 | 54 | 31.24 | 31.67 | 10.25 | 31.15 | 112 | 301 | A | V |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |       |       |       |       |     |     |   |   |



**Band 1 5150~5250MHz**  
**WIFI 802.11a (Harmonic @ 3m)**

| WIFI                        | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-----------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11a<br>CH 36<br>5180MHz |   | 10360                | 49.48                     | -18.72                  | 68.2                              | 54.29                           | 39.58                         | 15.6                   | 59.99                      | 100                  | 0                       | P                     | H             |
|                             |   | 15540                | 47.48                     | -26.52                  | 74                                | 47.69                           | 38.25                         | 19.59                  | 58.05                      | 100                  | 0                       | P                     | H             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                             |   | 10360                | 47.8                      | -20.4                   | 68.2                              | 52.61                           | 39.58                         | 15.6                   | 59.99                      | 100                  | 0                       | P                     | V             |
|                             |   | 15540                | 47.34                     | -26.66                  | 74                                | 47.57                           | 38.22                         | 19.59                  | 58.04                      | 100                  | 0                       | P                     | V             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11a<br>CH 44<br>5220MHz |   | 10440                | 48.04                     | -20.16                  | 68.2                              | 52.84                           | 39.7                          | 15.67                  | 60.17                      | 100                  | 0                       | P                     | H             |
|                             |   | 15660                | 49.42                     | -24.58                  | 74                                | 49.86                           | 37.8                          | 19.64                  | 57.88                      | 100                  | 0                       | P                     | H             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                             |   | 10440                | 46.96                     | -21.24                  | 68.2                              | 51.76                           | 39.7                          | 15.67                  | 60.17                      | 100                  | 0                       | P                     | V             |
|                             |   | 15660                | 49.34                     | -24.66                  | 74                                | 49.78                           | 37.8                          | 19.64                  | 57.88                      | 100                  | 0                       | P                     | V             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11a<br>CH 48<br>5240MHz |   | 10480                | 47.42                     | -20.78                  | 68.2                              | 52.28                           | 39.7                          | 15.7                   | 60.26                      | 100                  | 0                       | P                     | H             |
|                             |   | 15720                | 48.89                     | -25.11                  | 74                                | 49.27                           | 37.76                         | 19.65                  | 57.79                      | 100                  | 0                       | P                     | H             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                             |   | 10480                | 46.41                     | -21.79                  | 68.2                              | 51.27                           | 39.7                          | 15.7                   | 60.26                      | 100                  | 0                       | P                     | V             |
|                             |   | 15720                | 46.36                     | -27.64                  | 74                                | 46.74                           | 37.76                         | 19.65                  | 57.79                      | 100                  | 0                       | P                     | V             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 1 5150~5250MHz

## WIFI 802.11n HT20 (Band Edge @ 3m)

| WIFI                                | Note | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A)(H/V) | Pol. |
|-------------------------------------|------|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|----------------------------|------|
| 802.11n<br>HT20<br>CH 36<br>5180MHz |      | 5146.64              | 69.51                     | -4.49                   | 74                                | 58.76                           | 31.91                         | 9.98                   | 31.14                      | 289                  | 145                     | P                          | H    |
|                                     |      | 5150                 | 52.64                     | -1.36                   | 54                                | 41.9                            | 31.9                          | 9.98                   | 31.14                      | 289                  | 145                     | A                          | H    |
|                                     | *    | 5180                 | 118.81                    | -                       | -                                 | 108.15                          | 31.78                         | 10.02                  | 31.14                      | 289                  | 145                     | P                          | H    |
|                                     | *    | 5180                 | 107.55                    | -                       | -                                 | 96.89                           | 31.78                         | 10.02                  | 31.14                      | 289                  | 145                     | A                          | H    |
|                                     |      |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            | H    |
|                                     |      |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            | H    |
|                                     |      | 5146.9               | 63.75                     | -10.25                  | 74                                | 53                              | 31.91                         | 9.98                   | 31.14                      | 100                  | 121                     | P                          | V    |
|                                     |      | 5150                 | 48.16                     | -5.84                   | 54                                | 37.42                           | 31.9                          | 9.98                   | 31.14                      | 100                  | 121                     | A                          | V    |
|                                     | *    | 5180                 | 112.75                    | -                       | -                                 | 102.09                          | 31.78                         | 10.02                  | 31.14                      | 100                  | 121                     | P                          | V    |
|                                     | *    | 5180                 | 101.36                    | -                       | -                                 | 90.7                            | 31.78                         | 10.02                  | 31.14                      | 100                  | 121                     | A                          | V    |
| 802.11n<br>HT20<br>CH 44<br>5220MHz |      |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            | V    |
|                                     |      | 5148.98              | 64.48                     | -9.52                   | 74                                | 56.07                           | 31.9                          | 9.98                   | 33.47                      | 283                  | 144                     | P                          | H    |
|                                     |      | 5149.76              | 47.2                      | -6.8                    | 54                                | 38.79                           | 31.9                          | 9.98                   | 33.47                      | 283                  | 144                     | A                          | H    |
|                                     | *    | 5220                 | 121.17                    | -                       | -                                 | 112.99                          | 31.58                         | 10.06                  | 33.46                      | 283                  | 144                     | P                          | H    |
|                                     | *    | 5220                 | 110.97                    | -                       | -                                 | 102.79                          | 31.58                         | 10.06                  | 33.46                      | 283                  | 144                     | A                          | H    |
|                                     |      | 5353.04              | 57.4                      | -16.6                   | 74                                | 49.37                           | 31.31                         | 10.16                  | 33.44                      | 283                  | 144                     | P                          | H    |
|                                     |      | 5354.44              | 45.4                      | -8.6                    | 54                                | 37.36                           | 31.32                         | 10.16                  | 33.44                      | 283                  | 144                     | A                          | H    |
|                                     |      | 5149.5               | 59.62                     | -14.38                  | 74                                | 51.21                           | 31.9                          | 9.98                   | 33.47                      | 106                  | 121                     | P                          | V    |
|                                     |      | 5149.5               | 43.44                     | -10.56                  | 54                                | 35.03                           | 31.9                          | 9.98                   | 33.47                      | 106                  | 121                     | A                          | V    |
|                                     | *    | 5220                 | 115.92                    | -                       | -                                 | 107.74                          | 31.58                         | 10.06                  | 33.46                      | 106                  | 121                     | P                          | V    |
|                                     | *    | 5220                 | 104.65                    | -                       | -                                 | 96.47                           | 31.58                         | 10.06                  | 33.46                      | 106                  | 121                     | A                          | V    |
|                                     |      | 5456.08              | 53.84                     | -20.16                  | 74                                | 45.29                           | 31.72                         | 10.26                  | 33.43                      | 106                  | 121                     | P                          | V    |
|                                     |      | 5355                 | 42.05                     | -11.95                  | 54                                | 34.01                           | 31.32                         | 10.16                  | 33.44                      | 106                  | 121                     | A                          | V    |



|                                     |   |         |        |        |    |        |       |       |       |     |     |   |   |
|-------------------------------------|---|---------|--------|--------|----|--------|-------|-------|-------|-----|-----|---|---|
| 802.11n<br>HT20<br>CH 48<br>5240MHz |   | 5150    | 60.35  | -13.65 | 74 | 51.94  | 31.9  | 9.98  | 33.47 | 281 | 146 | P | H |
|                                     |   | 5145.6  | 44.96  | -9.04  | 54 | 36.55  | 31.91 | 9.97  | 33.47 | 281 | 146 | A | H |
|                                     | *   | 5240    | 120.74 | -      | -  | 112.67 | 31.46 | 10.07 | 33.46 | 281 | 146 | P | H |
|                                     | *   | 5240    | 110.34 | -      | -  | 102.27 | 31.46 | 10.07 | 33.46 | 281 | 146 | A | H |
|                                     |   | 5351.64 | 61.38  | -12.62 | 74 | 53.35  | 31.31 | 10.16 | 33.44 | 281 | 146 | P | H |
|                                     |   | 5350.52 | 45.58  | -8.42  | 54 | 37.56  | 31.3  | 10.16 | 33.44 | 281 | 146 | A | H |
|                                     |   | 5143.78 | 55.53  | -18.47 | 74 | 47.12  | 31.91 | 9.97  | 33.47 | 100 | 121 | P | V |
|                                     |   | 5148.98 | 42.68  | -11.32 | 54 | 34.27  | 31.9  | 9.98  | 33.47 | 100 | 121 | A | V |
|                                     | *   | 5240    | 115.35 | -      | -  | 107.28 | 31.46 | 10.07 | 33.46 | 100 | 121 | P | V |
|                                     | *   | 5240    | 103.99 | -      | -  | 95.92  | 31.46 | 10.07 | 33.46 | 100 | 121 | A | V |
|                                     |   | 5379.36 | 54.77  | -19.23 | 74 | 46.61  | 31.42 | 10.18 | 33.44 | 100 | 121 | P | V |
|                                     |   | 5356.4  | 42.32  | -11.68 | 54 | 34.26  | 31.33 | 10.17 | 33.44 | 100 | 121 | A | V |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |        |       |       |       |     |     |   |   |



## Band 1 5150~5250MHz

## WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI                                | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT20<br>CH 36<br>5180MHz |   | 10360                | 50.33                     | -17.87                  | 68.2                              | 55.14                           | 39.58                         | 15.6                   | 59.99                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15540                | 47.54                     | -26.46                  | 74                                | 47.77                           | 38.22                         | 19.59                  | 58.04                      | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10360                | 47.91                     | -20.29                  | 68.2                              | 52.72                           | 39.58                         | 15.6                   | 59.99                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15540                | 46.63                     | -27.37                  | 74                                | 46.86                           | 38.22                         | 19.59                  | 58.04                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 44<br>5220MHz |   | 10440                | 48.92                     | -19.28                  | 68.2                              | 53.72                           | 39.7                          | 15.67                  | 60.17                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15660                | 49.09                     | -24.91                  | 74                                | 49.53                           | 37.8                          | 19.64                  | 57.88                      | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10440                | 47.26                     | -20.94                  | 68.2                              | 52.06                           | 39.7                          | 15.67                  | 60.17                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15660                | 48.97                     | -25.03                  | 74                                | 49.41                           | 37.8                          | 19.64                  | 57.88                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 48<br>5240MHz |   | 10480                | 47.46                     | -20.74                  | 68.2                              | 52.32                           | 39.7                          | 15.7                   | 60.26                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15720                | 48.41                     | -25.59                  | 74                                | 48.79                           | 37.76                         | 19.65                  | 57.79                      | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10480                | 46.48                     | -21.72                  | 68.2                              | 51.34                           | 39.7                          | 15.7                   | 60.26                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15720                | 46.1                      | -27.9                   | 74                                | 46.48                           | 37.76                         | 19.65                  | 57.79                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 1 5150~5250MHz

## WIFI 802.11n HT40 (Band Edge @ 3m)

| WIFI                                | Note | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A)(H/V) | Pol. |
|-------------------------------------|------|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|----------------------------|------|
| 802.11n<br>HT40<br>CH 38<br>5190MHz |      | 5149.24              | 67                        | -7                      | 74                                | 56.26                           | 31.9                          | 9.98                   | 31.14                      | 288                  | 146                     | P                          | H    |
|                                     |      | 5150                 | 51.72                     | -2.28                   | 54                                | 40.98                           | 31.9                          | 9.98                   | 31.14                      | 288                  | 146                     | A                          | H    |
|                                     | *    | 5190                 | 112.96                    | -                       | -                                 | 102.33                          | 31.74                         | 10.03                  | 31.14                      | 288                  | 146                     | P                          | H    |
|                                     | *    | 5190                 | 102.18                    | -                       | -                                 | 91.55                           | 31.74                         | 10.03                  | 31.14                      | 288                  | 146                     | A                          | H    |
|                                     |      | 5353.32              | 55.11                     | -18.89                  | 74                                | 44.79                           | 31.31                         | 10.16                  | 31.15                      | 288                  | 146                     | P                          | H    |
|                                     |      | 5376.28              | 43.26                     | -10.74                  | 54                                | 32.82                           | 31.41                         | 10.18                  | 31.15                      | 288                  | 146                     | A                          | H    |
|                                     |      | 5149.76              | 61.66                     | -12.34                  | 74                                | 50.92                           | 31.9                          | 9.98                   | 31.14                      | 102                  | 120                     | P                          | V    |
|                                     |      | 5148.98              | 46.45                     | -7.55                   | 54                                | 35.71                           | 31.9                          | 9.98                   | 31.14                      | 102                  | 120                     | A                          | V    |
|                                     | *    | 5190                 | 106.65                    | -                       | -                                 | 96.02                           | 31.74                         | 10.03                  | 31.14                      | 102                  | 120                     | P                          | V    |
|                                     | *    | 5190                 | 95.85                     | -                       | -                                 | 85.22                           | 31.74                         | 10.03                  | 31.14                      | 102                  | 120                     | A                          | V    |
| 802.11n<br>HT40<br>CH 46<br>5230MHz |      | 5437.32              | 52.75                     | -21.25                  | 74                                | 42.01                           | 31.65                         | 10.24                  | 31.15                      | 102                  | 120                     | P                          | V    |
|                                     |      | 5376                 | 42.37                     | -11.63                  | 54                                | 31.94                           | 31.4                          | 10.18                  | 31.15                      | 102                  | 120                     | A                          | V    |
|                                     |      | 5149.76              | 65.93                     | -8.07                   | 74                                | 57.52                           | 31.9                          | 9.98                   | 33.47                      | 283                  | 146                     | P                          | H    |
|                                     |      | 5150                 | 51.76                     | -2.24                   | 54                                | 43.35                           | 31.9                          | 9.98                   | 33.47                      | 283                  | 146                     | A                          | H    |
|                                     | *    | 5230                 | 119.32                    | -                       | -                                 | 111.2                           | 31.52                         | 10.06                  | 33.46                      | 283                  | 146                     | P                          | H    |
|                                     | *    | 5230                 | 108.4                     | -                       | -                                 | 100.28                          | 31.52                         | 10.06                  | 33.46                      | 283                  | 146                     | A                          | H    |
|                                     |      | 5350.24              | 65.48                     | -8.52                   | 74                                | 57.46                           | 31.3                          | 10.16                  | 33.44                      | 283                  | 146                     | P                          | H    |
|                                     |      | 5350                 | 49.49                     | -4.51                   | 54                                | 41.47                           | 31.3                          | 10.16                  | 33.44                      | 283                  | 146                     | A                          | H    |
|                                     |      | 5149.24              | 60.87                     | -13.13                  | 74                                | 52.46                           | 31.9                          | 9.98                   | 33.47                      | 100                  | 120                     | P                          | V    |
|                                     |      | 5150                 | 46.82                     | -7.18                   | 54                                | 38.41                           | 31.9                          | 9.98                   | 33.47                      | 100                  | 120                     | A                          | V    |
| Remark                              | *    | 5230                 | 112.81                    | -                       | -                                 | 104.69                          | 31.52                         | 10.06                  | 33.46                      | 100                  | 120                     | P                          | V    |
|                                     | *    | 5230                 | 101.83                    | -                       | -                                 | 93.71                           | 31.52                         | 10.06                  | 33.46                      | 100                  | 120                     | A                          | V    |
|                                     |      | 5350                 | 58.7                      | -15.3                   | 74                                | 50.68                           | 31.3                          | 10.16                  | 33.44                      | 100                  | 120                     | P                          | V    |
|                                     |      | 5350                 | 44.1                      | -9.9                    | 54                                | 36.08                           | 31.3                          | 10.16                  | 33.44                      | 100                  | 120                     | A                          | V    |



## Band 1 5150~5250MHz

## WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI                                | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT40<br>CH 38<br>5190MHz |   | 10380                | 47.21                     | -20.99                  | 68.2                              | 51.99                           | 39.64                         | 15.62                  | 60.04                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15570                | 44.66                     | -29.34                  | 74                                | 45.05                           | 38.01                         | 19.6                   | 58                         | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10380                | 47.22                     | -20.98                  | 68.2                              | 52                              | 39.64                         | 15.62                  | 60.04                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15570                | 45.28                     | -28.72                  | 74                                | 45.67                           | 38.01                         | 19.6                   | 58                         | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT40<br>CH 46<br>5230MHz |   | 10460                | 49.15                     | -19.05                  | 68.2                              | 53.98                           | 39.7                          | 15.68                  | 60.21                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15690                | 55.21                     | -18.79                  | 74                                | 55.6                            | 37.8                          | 19.64                  | 57.83                      | 210                  | 165                     | P                     | H             |
|                                     |   | 15690                | 40.28                     | -13.72                  | 54                                | 40.88                           | 37.8                          | 19.43                  | 57.83                      | 210                  | 165                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10460                | 46.18                     | -22.02                  | 68.2                              | 51.01                           | 39.7                          | 15.68                  | 60.21                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15690                | 48.44                     | -25.56                  | 74                                | 48.83                           | 37.8                          | 19.64                  | 57.83                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 1 5150~5250MHz

## WIFI 802.11ac VHT80 (Band Edge @ 3m)

| WIFI                                  | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>(P/A) | Avg.<br>(H/V) | Pol. |
|---------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|---------------|---------------|------|
| 802.11ac<br>VHT80<br>CH 42<br>5210MHz |   | 5146.64              | 63.28                     | -10.72                  | 74                                | 52.53                           | 31.91                         | 9.98                   | 31.14                      | 282                  | 146                     | P             | H             |      |
|                                       |   | 5150                 | 48.52                     | -5.48                   | 54                                | 37.78                           | 31.9                          | 9.98                   | 31.14                      | 282                  | 146                     | A             | H             |      |
|                                       | *   | 5210                 | 108.91                    | -                       | -                                 | 98.36                           | 31.64                         | 10.05                  | 31.14                      | 282                  | 146                     | P             | H             |      |
|                                       | *   | 5210                 | 98.32                     | -                       | -                                 | 87.77                           | 31.64                         | 10.05                  | 31.14                      | 282                  | 146                     | A             | H             |      |
|                                       |   | 5352.2               | 54.61                     | -19.39                  | 74                                | 44.29                           | 31.31                         | 10.16                  | 31.15                      | 282                  | 146                     | P             | H             |      |
|                                       |   | 5453                 | 43.74                     | -10.26                  | 54                                | 32.92                           | 31.71                         | 10.26                  | 31.15                      | 282                  | 146                     | A             | H             |      |
|                                       |   | 5140.92              | 59.45                     | -14.55                  | 74                                | 48.7                            | 31.92                         | 9.97                   | 31.14                      | 105                  | 121                     | P             | V             |      |
|                                       |   | 5147.68              | 44.57                     | -9.43                   | 54                                | 33.83                           | 31.9                          | 9.98                   | 31.14                      | 105                  | 121                     | A             | V             |      |
|                                       | *   | 5210                 | 102.64                    | -                       | -                                 | 92.09                           | 31.64                         | 10.05                  | 31.14                      | 105                  | 121                     | P             | V             |      |
|                                       | *   | 5210                 | 91.87                     | -                       | -                                 | 81.32                           | 31.64                         | 10.05                  | 31.14                      | 105                  | 121                     | A             | V             |      |
|                                       |   | 5389.44              | 53.86                     | -20.14                  | 74                                | 43.36                           | 31.46                         | 10.19                  | 31.15                      | 105                  | 121                     | P             | V             |      |
|                                       |   | 5458.6               | 42.37                     | -11.63                  | 54                                | 31.53                           | 31.73                         | 10.26                  | 31.15                      | 105                  | 121                     | A             | V             |      |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |               |               |      |



## Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI                                  | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|---------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 42<br>5210MHz |   | 10420                | 47.08                     | -21.12                  | 68.2                              | 51.85                           | 39.7                          | 15.65                  | 60.12                      | 100                  | 0                       | P                     | H             |
|                                       |   | 15630                | 46.66                     | -27.34                  | 74                                | 47.16                           | 37.8                          | 19.62                  | 57.92                      | 100                  | 0                       | P                     | H             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                       |   | 10420                | 47.16                     | -21.04                  | 68.2                              | 51.93                           | 39.7                          | 15.65                  | 60.12                      | 100                  | 0                       | P                     | V             |
|                                       |   | 15630                | 46.19                     | -27.81                  | 74                                | 46.69                           | 37.8                          | 19.62                  | 57.92                      | 100                  | 0                       | P                     | V             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 2 - 5250~5350MHz

## WIFI 802.11a (Band Edge @ 3m)

| WIFI                        | Note | Frequency | Level  | Over   | Limit | Read  | Antenna | Path  | Preamp | Ant | Table | Peak    | Pol.    |
|-----------------------------|------|-----------|--------|--------|-------|-------|---------|-------|--------|-----|-------|---------|---------|
|                             |      |           |        |        |       |       |         |       |        |     |       | Avg.    |         |
|                             |      |           |        |        |       |       |         |       |        |     |       | ( P/A ) | ( H/V ) |
| 802.11a<br>CH 52<br>5260MHz |      | 5146.2    | 54.15  | -19.85 | 74    | 43.4  | 31.91   | 9.98  | 31.14  | 256 | 325   | P       | H       |
|                             |      | 5145.52   | 42.51  | -11.49 | 54    | 31.77 | 31.91   | 9.97  | 31.14  | 256 | 325   | A       | H       |
|                             | *    | 5260      | 119.32 | -      | -     | 109   | 31.38   | 10.09 | 31.15  | 256 | 325   | P       | H       |
|                             | *    | 5260      | 108.22 | -      | -     | 97.9  | 31.38   | 10.09 | 31.15  | 256 | 325   | A       | H       |
|                             |      | 5352      | 58.99  | -15.01 | 74    | 48.67 | 31.31   | 10.16 | 31.15  | 256 | 325   | P       | H       |
|                             |      | 5355.84   | 44.11  | -9.89  | 54    | 33.78 | 31.32   | 10.16 | 31.15  | 256 | 325   | A       | H       |
|                             |      | 5141.78   | 53.26  | -20.74 | 74    | 42.51 | 31.92   | 9.97  | 31.14  | 109 | 301   | P       | V       |
|                             |      | 5143.82   | 41.7   | -12.3  | 54    | 30.96 | 31.91   | 9.97  | 31.14  | 109 | 301   | A       | V       |
|                             | *    | 5260      | 113.52 | -      | -     | 103.2 | 31.38   | 10.09 | 31.15  | 109 | 301   | P       | V       |
|                             | *    | 5260      | 102.32 | -      | -     | 92    | 31.38   | 10.09 | 31.15  | 109 | 301   | A       | V       |
|                             |      | 5352      | 55.31  | -18.69 | 74    | 44.99 | 31.31   | 10.16 | 31.15  | 109 | 301   | P       | V       |
|                             |      | 5352.24   | 41.98  | -12.02 | 54    | 31.66 | 31.31   | 10.16 | 31.15  | 109 | 301   | A       | V       |
| 802.11a<br>CH 60<br>5300MHz |      | 5114.24   | 53.43  | -20.57 | 74    | 42.66 | 31.97   | 9.94  | 31.14  | 270 | 324   | P       | H       |
|                             |      | 5145.52   | 42.25  | -11.75 | 54    | 31.51 | 31.91   | 9.97  | 31.14  | 270 | 324   | A       | H       |
|                             | *    | 5300      | 118.67 | -      | -     | 108.4 | 31.3    | 10.12 | 31.15  | 270 | 324   | P       | H       |
|                             | *    | 5300      | 107.57 | -      | -     | 97.3  | 31.3    | 10.12 | 31.15  | 270 | 324   | A       | H       |
|                             |      | 5352      | 67.39  | -6.61  | 74    | 57.07 | 31.31   | 10.16 | 31.15  | 270 | 324   | P       | H       |
|                             |      | 5352.48   | 47.75  | -6.25  | 54    | 37.43 | 31.31   | 10.16 | 31.15  | 270 | 324   | A       | H       |
|                             |      | 5140.42   | 53.64  | -20.36 | 74    | 42.89 | 31.92   | 9.97  | 31.14  | 113 | 302   | P       | V       |
|                             |      | 5134.98   | 41.75  | -12.25 | 54    | 31    | 31.93   | 9.96  | 31.14  | 113 | 302   | A       | V       |
|                             | *    | 5300      | 113.17 | -      | -     | 102.9 | 31.3    | 10.12 | 31.15  | 113 | 302   | P       | V       |
|                             | *    | 5300      | 102.07 | -      | -     | 91.8  | 31.3    | 10.12 | 31.15  | 113 | 302   | A       | V       |
|                             |      | 5350.32   | 63.01  | -10.99 | 74    | 52.7  | 31.3    | 10.16 | 31.15  | 113 | 302   | P       | V       |
|                             |      | 5356.56   | 44.37  | -9.63  | 54    | 34.02 | 31.33   | 10.17 | 31.15  | 113 | 302   | A       | V       |



|                                      |   |         |        |       |    |       |       |       |       |     |     |   |   |
|--------------------------------------|---|---------|--------|-------|----|-------|-------|-------|-------|-----|-----|---|---|
| <b>802.11a<br/>CH 64<br/>5320MHz</b> | *   | 5320    | 118.99 | -     | -  | 108.7 | 31.3  | 10.14 | 31.15 | 267 | 326 | P | H |
|                                      | *   | 5320    | 108.09 | -     | -  | 97.8  | 31.3  | 10.14 | 31.15 | 267 | 326 | A | H |
|                                      |   | 5353.12 | 70.4   | -3.6  | 74 | 60.08 | 31.31 | 10.16 | 31.15 | 267 | 326 | P | H |
|                                      |   | 5350.4  | 51.86  | -2.14 | 54 | 41.55 | 31.3  | 10.16 | 31.15 | 267 | 326 | A | H |
|                                      |   |         |        |       |    |       |       |       |       |     |     |   | H |
|                                      |   |         |        |       |    |       |       |       |       |     |     |   | H |
|                                      | *   | 5320    | 113.69 | -     | -  | 103.4 | 31.3  | 10.14 | 31.15 | 108 | 302 | P | V |
|                                      | *   | 5320    | 102.49 | -     | -  | 92.2  | 31.3  | 10.14 | 31.15 | 108 | 302 | A | V |
|                                      |   | 5357.6  | 64.61  | -9.39 | 74 | 54.26 | 31.33 | 10.17 | 31.15 | 108 | 302 | P | V |
|                                      |   | 5350.4  | 47.35  | -6.65 | 54 | 37.04 | 31.3  | 10.16 | 31.15 | 108 | 302 | A | V |
|                                      |   |         |        |       |    |       |       |       |       |     |     |   | V |
|                                      |   |         |        |       |    |       |       |       |       |     |     |   | V |
| <b>Remark</b>                        | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |       |    |       |       |       |       |     |     |   |   |



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

| WIFI                                | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11a<br><br>CH 52<br><br>5260MHz |   | 10520                | 49                        | -19.2                   | 68.2                              | 53.88                           | 39.74                         | 15.73                  | 60.35                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15780                | 54.81                     | -19.19                  | 74                                | 55.2                            | 37.64                         | 19.68                  | 57.71                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15780                | 40.01                     | -13.99                  | 54                                | 40.4                            | 37.64                         | 19.68                  | 57.71                      | 100                  | 0                       | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10520                | 47.95                     | -20.25                  | 68.2                              | 52.83                           | 39.74                         | 15.73                  | 60.35                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15780                | 47.66                     | -26.34                  | 74                                | 48.05                           | 37.64                         | 19.68                  | 57.71                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11a<br><br>CH 60<br><br>5300MHz |   | 10600                | 49.39                     | -24.61                  | 74                                | 54.23                           | 39.9                          | 15.8                   | 60.54                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15900                | 57.8                      | -16.2                   | 74                                | 58.31                           | 37.3                          | 19.73                  | 57.54                      | 214                  | 193                     | P                     | H             |
|                                     |   | 15900                | 42.53                     | -11.47                  | 54                                | 43.04                           | 37.3                          | 19.73                  | 57.54                      | 214                  | 193                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10600                | 47.28                     | -26.72                  | 74                                | 52.12                           | 39.9                          | 15.8                   | 60.54                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15900                | 52.72                     | -21.28                  | 74                                | 53.23                           | 37.3                          | 19.73                  | 57.54                      | 100                  | 205                     | P                     | V             |
|                                     |   | 15900                | 38.75                     | -15.25                  | 54                                | 39.26                           | 37.3                          | 19.73                  | 57.54                      | 100                  | 205                     | A                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11a<br><br>CH 64<br><br>5320MHz |   | 10640                | 47.97                     | -26.03                  | 74                                | 52.93                           | 39.86                         | 15.82                  | 60.64                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15960                | 58.02                     | -15.98                  | 74                                | 58.38                           | 37.36                         | 19.74                  | 57.46                      | 100                  | 135                     | P                     | H             |
|                                     |   | 15960                | 42.09                     | -11.91                  | 54                                | 42.45                           | 37.36                         | 19.74                  | 57.46                      | 100                  | 135                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10640                | 47.11                     | -26.89                  | 74                                | 52.07                           | 39.86                         | 15.82                  | 60.64                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15960                | 47.96                     | -26.04                  | 74                                | 48.32                           | 37.36                         | 19.74                  | 57.46                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.<br>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<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A)(H/V) | Pol. |
|-------------------------------------|------|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|----------------------------|------|
| 802.11n<br>HT20<br>CH 52<br>5260MHz |      | 5140.08              | 56.15                     | -17.85                  | 74                                | 47.73                           | 31.92                         | 9.97                   | 33.47                      | 279                  | 145                     | P                          | H    |
|                                     |      | 5145.86              | 43.69                     | -10.31                  | 54                                | 35.27                           | 31.91                         | 9.98                   | 33.47                      | 279                  | 145                     | A                          | H    |
|                                     | *    | 5260                 | 121.07                    | -                       | -                                 | 113.05                          | 31.38                         | 10.09                  | 33.45                      | 279                  | 145                     | P                          | H    |
|                                     | *    | 5260                 | 110.78                    | -                       | -                                 | 102.76                          | 31.38                         | 10.09                  | 33.45                      | 279                  | 145                     | A                          | H    |
|                                     |      | 5355.36              | 62.02                     | -11.98                  | 74                                | 53.98                           | 31.32                         | 10.16                  | 33.44                      | 279                  | 145                     | P                          | H    |
|                                     |      | 5355.84              | 46.11                     | -7.89                   | 54                                | 38.07                           | 31.32                         | 10.16                  | 33.44                      | 279                  | 145                     | A                          | H    |
|                                     |      | 5108.46              | 54.94                     | -19.06                  | 74                                | 46.5                            | 31.98                         | 9.93                   | 33.47                      | 100                  | 123                     | P                          | V    |
|                                     |      | 5145.52              | 42.19                     | -11.81                  | 54                                | 33.78                           | 31.91                         | 9.97                   | 33.47                      | 100                  | 123                     | A                          | V    |
|                                     | *    | 5260                 | 115.4                     | -                       | -                                 | 107.38                          | 31.38                         | 10.09                  | 33.45                      | 100                  | 123                     | P                          | V    |
|                                     | *    | 5260                 | 103.97                    | -                       | -                                 | 95.95                           | 31.38                         | 10.09                  | 33.45                      | 100                  | 123                     | A                          | V    |
| 802.11n<br>HT20<br>CH 60<br>5300MHz |      | 5354.64              | 56.43                     | -17.57                  | 74                                | 48.39                           | 31.32                         | 10.16                  | 33.44                      | 100                  | 123                     | P                          | V    |
|                                     |      | 5351.52              | 42.45                     | -11.55                  | 54                                | 34.42                           | 31.31                         | 10.16                  | 33.44                      | 100                  | 123                     | A                          | V    |
|                                     |      | 5146.54              | 53.84                     | -20.16                  | 74                                | 45.42                           | 31.91                         | 9.98                   | 33.47                      | 264                  | 145                     | P                          | H    |
|                                     |      | 5145.52              | 43.15                     | -10.85                  | 54                                | 34.74                           | 31.91                         | 9.97                   | 33.47                      | 264                  | 145                     | A                          | H    |
|                                     | *    | 5300                 | 120.08                    | -                       | -                                 | 112.11                          | 31.3                          | 10.12                  | 33.45                      | 264                  | 145                     | P                          | H    |
|                                     | *    | 5300                 | 109.5                     | -                       | -                                 | 101.53                          | 31.3                          | 10.12                  | 33.45                      | 264                  | 145                     | A                          | H    |
|                                     |      | 5353.68              | 70.44                     | -3.56                   | 74                                | 62.41                           | 31.31                         | 10.16                  | 33.44                      | 264                  | 145                     | P                          | H    |
|                                     |      | 5350.8               | 50.7                      | -3.3                    | 54                                | 42.68                           | 31.3                          | 10.16                  | 33.44                      | 264                  | 145                     | A                          | H    |
|                                     |      | 5135.66              | 53.93                     | -20.07                  | 74                                | 45.51                           | 31.93                         | 9.96                   | 33.47                      | 100                  | 122                     | P                          | V    |
|                                     |      | 5120.7               | 41.94                     | -12.06                  | 54                                | 33.51                           | 31.96                         | 9.94                   | 33.47                      | 100                  | 122                     | A                          | V    |
|                                     | *    | 5300                 | 114.29                    | -                       | -                                 | 106.32                          | 31.3                          | 10.12                  | 33.45                      | 100                  | 122                     | P                          | V    |
|                                     | *    | 5300                 | 102.83                    | -                       | -                                 | 94.86                           | 31.3                          | 10.12                  | 33.45                      | 100                  | 122                     | A                          | V    |
|                                     |      | 5350.8               | 64.13                     | -9.87                   | 74                                | 56.11                           | 31.3                          | 10.16                  | 33.44                      | 100                  | 122                     | P                          | V    |
|                                     |      | 5351.76              | 45.17                     | -8.83                   | 54                                | 37.14                           | 31.31                         | 10.16                  | 33.44                      | 100                  | 122                     | A                          | V    |



|                                     |   |         |        |       |    |        |       |       |       |     |     |   |   |
|-------------------------------------|---|---------|--------|-------|----|--------|-------|-------|-------|-----|-----|---|---|
| 802.11n<br>HT20<br>CH 64<br>5320MHz | *   | 5320    | 117.64 | -     | -  | 107.35 | 31.3  | 10.14 | 31.15 | 261 | 145 | P | H |
|                                     | *   | 5320    | 106.07 | -     | -  | 95.78  | 31.3  | 10.14 | 31.15 | 261 | 145 | A | H |
|                                     |   | 5352.16 | 69.65  | -4.35 | 74 | 59.33  | 31.31 | 10.16 | 31.15 | 261 | 145 | P | H |
|                                     |   | 5350.08 | 51.26  | -2.74 | 54 | 40.95  | 31.3  | 10.16 | 31.15 | 261 | 145 | A | H |
|                                     |   |         |        |       |    |        |       |       |       |     |     |   | H |
|                                     |   |         |        |       |    |        |       |       |       |     |     |   | H |
|                                     | *   | 5320    | 111.02 | -     | -  | 100.73 | 31.3  | 10.14 | 31.15 | 100 | 124 | P | V |
|                                     | *   | 5320    | 99.52  | -     | -  | 89.23  | 31.3  | 10.14 | 31.15 | 100 | 124 | A | V |
|                                     |   | 5350.56 | 64.02  | -9.98 | 74 | 53.71  | 31.3  | 10.16 | 31.15 | 100 | 124 | P | V |
|                                     |   | 5350.08 | 46.06  | -7.94 | 54 | 35.75  | 31.3  | 10.16 | 31.15 | 100 | 124 | A | V |
|                                     |   |         |        |       |    |        |       |       |       |     |     |   | V |
|                                     |   |         |        |       |    |        |       |       |       |     |     |   | V |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |       |    |        |       |       |       |     |     |   |   |



## Band 2 5250~5350MHz

## WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI                                | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT20<br>CH 52<br>5260MHz |   | 10520                | 49.21                     | -18.99                  | 68.2                              | 54.09                           | 39.74                         | 15.73                  | 60.35                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15780                | 57.17                     | -16.83                  | 74                                | 57.56                           | 37.64                         | 19.68                  | 57.71                      | 100                  | 135                     | P                     | H             |
|                                     |   | 15780                | 40.96                     | -13.04                  | 54                                | 41.35                           | 37.64                         | 19.68                  | 57.71                      | 100                  | 135                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10520                | 48.25                     | -19.95                  | 68.2                              | 53.13                           | 39.74                         | 15.73                  | 60.35                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15780                | 54.38                     | -19.62                  | 74                                | 54.77                           | 37.64                         | 19.68                  | 57.71                      | 100                  | 154                     | P                     | V             |
|                                     |   | 15780                | 38.88                     | -15.12                  | 54                                | 39.27                           | 37.64                         | 19.68                  | 57.71                      | 100                  | 154                     | A                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 60<br>5300MHz |   | 10600                | 48.4                      | -25.6                   | 74                                | 53.24                           | 39.9                          | 15.8                   | 60.54                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15900                | 57.6                      | -16.4                   | 74                                | 58.11                           | 37.3                          | 19.73                  | 57.54                      | 100                  | 135                     | P                     | H             |
|                                     |   | 15900                | 40.78                     | -13.22                  | 54                                | 41.29                           | 37.3                          | 19.73                  | 57.54                      | 100                  | 135                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10600                | 47.9                      | -26.1                   | 74                                | 52.74                           | 39.9                          | 15.8                   | 60.54                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15900                | 47.31                     | -26.69                  | 74                                | 47.82                           | 37.3                          | 19.73                  | 57.54                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 64<br>5320MHz |   | 10640                | 47.45                     | -26.55                  | 74                                | 52.41                           | 39.86                         | 15.82                  | 60.64                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15960                | 57.12                     | -16.88                  | 74                                | 57.48                           | 37.36                         | 19.74                  | 57.46                      | 100                  | 192                     | P                     | H             |
|                                     |   | 15960                | 40.26                     | -13.74                  | 54                                | 40.62                           | 37.36                         | 19.74                  | 57.46                      | 100                  | 192                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10640                | 47.22                     | -26.78                  | 74                                | 52.18                           | 39.86                         | 15.82                  | 60.64                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15960                | 48.17                     | -25.83                  | 74                                | 48.53                           | 37.36                         | 19.74                  | 57.46                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.<br>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<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A)(H/V) | Pol. |
|-------------------------------------|------|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|----------------------------|------|
| 802.11n<br>HT40<br>CH 54<br>5270MHz |      | 5149.94              | 59.83                     | -14.17                  | 74                                | 51.42                           | 31.9                          | 9.98                   | 33.47                      | 289                  | 144                     | P                          | H    |
|                                     |      | 5149.94              | 46.73                     | -7.27                   | 54                                | 38.32                           | 31.9                          | 9.98                   | 33.47                      | 289                  | 144                     | A                          | H    |
|                                     | *    | 5270                 | 119.42                    | -                       | -                                 | 111.41                          | 31.36                         | 10.1                   | 33.45                      | 289                  | 144                     | P                          | H    |
|                                     | *    | 5270                 | 108.51                    | -                       | -                                 | 100.5                           | 31.36                         | 10.1                   | 33.45                      | 289                  | 144                     | A                          | H    |
|                                     |      | 5352.48              | 67.65                     | -6.35                   | 74                                | 59.62                           | 31.31                         | 10.16                  | 33.44                      | 289                  | 144                     | P                          | H    |
|                                     |      | 5350.56              | 52.02                     | -1.98                   | 54                                | 44                              | 31.3                          | 10.16                  | 33.44                      | 289                  | 144                     | A                          | H    |
|                                     |      | 5149.94              | 54.38                     | -19.62                  | 74                                | 45.97                           | 31.9                          | 9.98                   | 33.47                      | 108                  | 123                     | P                          | V    |
|                                     |      | 5148.24              | 43.23                     | -10.77                  | 54                                | 34.82                           | 31.9                          | 9.98                   | 33.47                      | 108                  | 123                     | A                          | V    |
|                                     | *    | 5270                 | 112.87                    | -                       | -                                 | 104.86                          | 31.36                         | 10.1                   | 33.45                      | 108                  | 123                     | P                          | V    |
|                                     | *    | 5270                 | 102.03                    | -                       | -                                 | 94.02                           | 31.36                         | 10.1                   | 33.45                      | 108                  | 123                     | A                          | V    |
| 802.11n<br>HT40<br>CH 62<br>5310MHz |      | 5351.52              | 60.9                      | -13.1                   | 74                                | 52.87                           | 31.31                         | 10.16                  | 33.44                      | 108                  | 123                     | P                          | V    |
|                                     |      | 5351.28              | 46.5                      | -7.5                    | 54                                | 38.47                           | 31.31                         | 10.16                  | 33.44                      | 108                  | 123                     | A                          | V    |
|                                     |      | 5136.34              | 53.62                     | -20.38                  | 74                                | 42.87                           | 31.93                         | 9.96                   | 31.14                      | 258                  | 145                     | P                          | H    |
|                                     |      | 5144.16              | 42.71                     | -11.29                  | 54                                | 31.97                           | 31.91                         | 9.97                   | 31.14                      | 258                  | 145                     | A                          | H    |
|                                     | *    | 5310                 | 110.99                    | -                       | -                                 | 100.71                          | 31.3                          | 10.13                  | 31.15                      | 258                  | 145                     | P                          | H    |
|                                     | *    | 5310                 | 100.28                    | -                       | -                                 | 90                              | 31.3                          | 10.13                  | 31.15                      | 258                  | 145                     | A                          | H    |
|                                     |      | 5357.04              | 66.74                     | -7.26                   | 74                                | 56.39                           | 31.33                         | 10.17                  | 31.15                      | 258                  | 145                     | P                          | H    |
|                                     |      | 5350.32              | 51.37                     | -2.63                   | 54                                | 41.06                           | 31.3                          | 10.16                  | 31.15                      | 258                  | 145                     | A                          | H    |
|                                     |      | 5107.1               | 54.17                     | -19.83                  | 74                                | 43.39                           | 31.99                         | 9.93                   | 31.14                      | 100                  | 125                     | P                          | V    |
|                                     |      | 5122.74              | 42.41                     | -11.59                  | 54                                | 31.65                           | 31.95                         | 9.95                   | 31.14                      | 100                  | 125                     | A                          | V    |
| Remark                              | *    | 5310                 | 104.7                     | -                       | -                                 | 94.42                           | 31.3                          | 10.13                  | 31.15                      | 100                  | 125                     | P                          | V    |
|                                     | *    | 5310                 | 94.19                     | -                       | -                                 | 83.91                           | 31.3                          | 10.13                  | 31.15                      | 100                  | 125                     | A                          | V    |
|                                     |      | 5350.08              | 60.28                     | -13.72                  | 74                                | 49.97                           | 31.3                          | 10.16                  | 31.15                      | 100                  | 125                     | P                          | V    |
|                                     |      | 5350.8               | 45.89                     | -8.11                   | 54                                | 35.58                           | 31.3                          | 10.16                  | 31.15                      | 100                  | 125                     | A                          | V    |



## Band 2 5250~5350MHz

## WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI                                | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT40<br>CH 54<br>5270MHz |   | 10540                | 48.85                     | -19.35                  | 68.2                              | 53.72                           | 39.78                         | 15.75                  | 60.4                       | 100                  | 0                       | P                     | H             |
|                                     |   | 15810                | 55                        | -19                     | 74                                | 55.41                           | 37.57                         | 19.69                  | 57.67                      | 100                  | 135                     | P                     | H             |
|                                     |   | 15810                | 41.52                     | -12.48                  | 54                                | 41.93                           | 37.57                         | 19.69                  | 57.67                      | 100                  | 135                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10540                | 47.86                     | -20.34                  | 68.2                              | 52.73                           | 39.78                         | 15.75                  | 60.4                       | 100                  | 0                       | P                     | V             |
|                                     |   | 15810                | 47.25                     | -26.75                  | 74                                | 47.66                           | 37.57                         | 19.69                  | 57.67                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT40<br>CH 62<br>5310MHz |   | 10620                | 47.51                     | -26.49                  | 74                                | 52.42                           | 39.88                         | 15.8                   | 60.59                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15930                | 44.11                     | -29.89                  | 74                                | 44.54                           | 37.33                         | 19.74                  | 57.5                       | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10620                | 47.21                     | -26.79                  | 74                                | 52.12                           | 39.88                         | 15.8                   | 60.59                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15930                | 45.23                     | -28.77                  | 74                                | 45.66                           | 37.33                         | 19.74                  | 57.5                       | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.<br>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<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>(P/A) | Avg.<br>(H/V) |
|---------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|---------------|---------------|
| 802.11ac<br>VHT80<br>CH 58<br>5290MHz |   | 5011.9               | 53.95                     | -20.05                  | 74                                | 43.78                           | 31.5                          | 9.81                   | 31.14                      | 292                  | 143                     | P             | H             |
|                                       |   | 5145.52              | 43.11                     | -10.89                  | 54                                | 32.37                           | 31.91                         | 9.97                   | 31.14                      | 292                  | 143                     | A             | H             |
|                                       | *   | 5290                 | 106.82                    | -                       | -                                 | 96.54                           | 31.32                         | 10.11                  | 31.15                      | 292                  | 143                     | P             | H             |
|                                       | *   | 5290                 | 96.2                      | -                       | -                                 | 85.92                           | 31.32                         | 10.11                  | 31.15                      | 292                  | 143                     | A             | H             |
|                                       |   | 5364.24              | 64.16                     | -9.84                   | 74                                | 53.78                           | 31.36                         | 10.17                  | 31.15                      | 292                  | 143                     | P             | H             |
|                                       |   | 5350.08              | 51.7                      | -2.3                    | 54                                | 41.39                           | 31.3                          | 10.16                  | 31.15                      | 292                  | 143                     | A             | H             |
|                                       |   | 5120.02              | 53.8                      | -20.2                   | 74                                | 43.04                           | 31.96                         | 9.94                   | 31.14                      | 100                  | 124                     | P             | V             |
|                                       |   | 5145.52              | 42.58                     | -11.42                  | 54                                | 31.84                           | 31.91                         | 9.97                   | 31.14                      | 100                  | 124                     | A             | V             |
|                                       | *   | 5290                 | 100.25                    | -                       | -                                 | 89.97                           | 31.32                         | 10.11                  | 31.15                      | 100                  | 124                     | P             | V             |
|                                       | *   | 5290                 | 89.8                      | -                       | -                                 | 79.52                           | 31.32                         | 10.11                  | 31.15                      | 100                  | 124                     | A             | V             |
|                                       |   | 5374.56              | 59.1                      | -14.9                   | 74                                | 48.67                           | 31.4                          | 10.18                  | 31.15                      | 100                  | 124                     | P             | V             |
|                                       |   | 5353.44              | 46.46                     | -7.54                   | 54                                | 36.14                           | 31.31                         | 10.16                  | 31.15                      | 100                  | 124                     | A             | V             |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |               |               |



## Band 2 5250~5350MHz

## WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI                                  | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|---------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 58<br>5290MHz |   | 10580                | 48.3                      | -19.9                   | 68.2                              | 53.15                           | 39.86                         | 15.78                  | 60.49                      | 100                  | 0                       | P                     | H             |
|                                       |   | 15870                | 46.02                     | -27.98                  | 74                                | 46.5                            | 37.39                         | 19.71                  | 57.58                      | 100                  | 0                       | P                     | H             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                       |   | 10580                | 48.12                     | -20.08                  | 68.2                              | 52.97                           | 39.86                         | 15.78                  | 60.49                      | 100                  | 0                       | P                     | V             |
|                                       |   | 15870                | 45.27                     | -28.73                  | 74                                | 45.75                           | 37.39                         | 19.71                  | 57.58                      | 100                  | 0                       | P                     | V             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                                | 1. No other spurious found.<br>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 | Path  | Preamp | Ant | Table | Peak   | Pol.   |
|------------------------------|------|-----------|--------|--------|-------|--------|---------|-------|--------|-----|-------|--------|--------|
|                              |      |           |        |        |       |        |         |       |        |     |       | Limit  | Line   |
|                              |      |           |        |        |       |        |         |       |        |     |       | Factor | Factor |
| 802.11a<br>CH 100<br>5500MHz |      | 5457.52   | 64.37  | -9.63  | 74    | 53.53  | 31.73   | 10.26 | 31.15  | 273 | 139   | P      | H      |
|                              |      | 5467.76   | 65.51  | -2.69  | 68.2  | 54.62  | 31.77   | 10.27 | 31.15  | 273 | 139   | P      | H      |
|                              |      | 5442.48   | 46.77  | -7.23  | 54    | 36     | 31.67   | 10.25 | 31.15  | 273 | 139   | A      | H      |
|                              | *    | 5500      | 115    | -      | -     | 103.94 | 31.9    | 10.31 | 31.15  | 273 | 139   | P      | H      |
|                              | *    | 5500      | 103.87 | -      | -     | 92.81  | 31.9    | 10.31 | 31.15  | 273 | 139   | A      | H      |
|                              |      |           |        |        |       |        |         |       |        |     |       |        | H      |
|                              |      | 5453.2    | 58.03  | -15.97 | 74    | 47.21  | 31.71   | 10.26 | 31.15  | 258 | 214   | P      | V      |
|                              |      | 5468.72   | 58.76  | -9.44  | 68.2  | 47.86  | 31.77   | 10.28 | 31.15  | 258 | 214   | P      | V      |
|                              |      | 5459.44   | 43.03  | -10.97 | 54    | 32.17  | 31.74   | 10.27 | 31.15  | 258 | 214   | A      | V      |
|                              | *    | 5500      | 108.32 | -      | -     | 97.26  | 31.9    | 10.31 | 31.15  | 258 | 214   | P      | V      |
|                              | *    | 5500      | 97.12  | -      | -     | 86.06  | 31.9    | 10.31 | 31.15  | 258 | 214   | A      | V      |
|                              |      |           |        |        |       |        |         |       |        |     |       |        | V      |
| 802.11a<br>CH 116<br>5580MHz |      | 5447.68   | 54.45  | -19.55 | 74    | 43.66  | 31.69   | 10.25 | 31.15  | 297 | 165   | P      | H      |
|                              |      | 5460.4    | 54.55  | -13.65 | 68.2  | 43.69  | 31.74   | 10.27 | 31.15  | 297 | 165   | P      | H      |
|                              |      | 5452.96   | 42.54  | -11.46 | 54    | 31.72  | 31.71   | 10.26 | 31.15  | 297 | 165   | A      | H      |
|                              | *    | 5580      | 117.12 | -      | -     | 106.12 | 31.8    | 10.4  | 31.2   | 297 | 165   | P      | H      |
|                              | *    | 5580      | 105.9  | -      | -     | 94.9   | 31.8    | 10.4  | 31.2   | 297 | 165   | A      | H      |
|                              |      | 5760.905  | 54.33  | -13.87 | 68.2  | 42.94  | 32.12   | 10.55 | 31.28  | 297 | 165   | P      | H      |
|                              |      | 5423.2    | 52.8   | -21.2  | 74    | 42.13  | 31.59   | 10.23 | 31.15  | 276 | 216   | P      | V      |
|                              |      | 5462.56   | 52.85  | -15.35 | 68.2  | 41.98  | 31.75   | 10.27 | 31.15  | 276 | 216   | P      | V      |
|                              |      | 5452.24   | 41.73  | -12.27 | 54    | 30.91  | 31.71   | 10.26 | 31.15  | 276 | 216   | A      | V      |
|                              | *    | 5580      | 111.2  | -      | -     | 100.2  | 31.8    | 10.4  | 31.2   | 276 | 216   | P      | V      |
|                              | *    | 5580      | 99.6   | -      | -     | 88.6   | 31.8    | 10.4  | 31.2   | 276 | 216   | A      | V      |
|                              |      | 5742.005  | 52.69  | -15.51 | 68.2  | 41.35  | 32.08   | 10.53 | 31.27  | 276 | 216   | P      | V      |



## FCC RADIO TEST REPORT

Report No. : FR8N0846D

|                                       |   |         |        |       |      |       |       |       |       |     |     |   |   |
|---------------------------------------|---|---------|--------|-------|------|-------|-------|-------|-------|-----|-----|---|---|
| <b>802.11a<br/>CH 140<br/>5700MHz</b> | *   | 5700    | 111.75 | -     | -    | 100.5 | 32    | 10.5  | 31.25 | 289 | 342 | P | H |
|                                       | *   | 5700    | 100.85 | -     | -    | 89.6  | 32    | 10.5  | 31.25 | 289 | 342 | A | H |
|                                       |   | 5726.12 | 64.63  | -3.57 | 68.2 | 53.32 | 32.05 | 10.52 | 31.26 | 289 | 342 | P | H |
|                                       |   |         |        |       |      |       |       |       |       |     |     |   | H |
|                                       |   |         |        |       |      |       |       |       |       |     |     |   | H |
|                                       |   |         |        |       |      |       |       |       |       |     |     |   | H |
|                                       | *   | 5700    | 105.35 | -     | -    | 94.1  | 32    | 10.5  | 31.25 | 300 | 309 | P | V |
|                                       | *   | 5700    | 94.15  | -     | -    | 82.9  | 32    | 10.5  | 31.25 | 300 | 309 | A | V |
|                                       |   | 5725.24 | 59.65  | -8.55 | 68.2 | 48.34 | 32.05 | 10.52 | 31.26 | 300 | 309 | P | V |
|                                       |   |         |        |       |      |       |       |       |       |     |     |   | V |
|                                       |   |         |        |       |      |       |       |       |       |     |     |   | V |
|                                       |   |         |        |       |      |       |       |       |       |     |     |   | V |
| <b>Remark</b>                         | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |       |      |       |       |       |       |     |     |   |   |



## Band 3 - 5470~5725MHz

## WIFI 802.11a (Harmonic @ 3m)

| WIFI                         | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11a<br>CH 100<br>5500MHz |   | 11000                | 48.37                     | -25.63                  | 74                                | 53.57                           | 40.2                          | 16.1                   | 61.5                       | 100                  | 0                       | P                     | H             |
|                              |   | 16500                | 52.25                     | -15.95                  | 68.2                              | 49.97                           | 39.4                          | 20.18                  | 57.3                       | 100                  | 0                       | P                     | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   | 11000                | 48.16                     | -25.84                  | 74                                | 53.36                           | 40.2                          | 16.1                   | 61.5                       | 100                  | 0                       | P                     | V             |
|                              |   | 16500                | 47.67                     | -20.53                  | 68.2                              | 45.39                           | 39.4                          | 20.18                  | 57.3                       | 100                  | 0                       | P                     | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11a<br>CH 116<br>5580MHz |   | 11160                | 46.05                     | -27.95                  | 74                                | 51.73                           | 39.62                         | 16.23                  | 61.53                      | 100                  | 0                       | P                     | H             |
|                              |   | 16740                | 65.15                     | -3.05                   | 68.2                              | 61.2                            | 40.4                          | 20.37                  | 56.82                      | 100                  | 124                     | P                     | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   | 11160                | 45.96                     | -28.04                  | 74                                | 51.64                           | 39.62                         | 16.23                  | 61.53                      | 100                  | 0                       | P                     | V             |
|                              |   | 16740                | 59.65                     | -8.55                   | 68.2                              | 55.7                            | 40.4                          | 20.37                  | 56.82                      | 100                  | 146                     | P                     | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11a<br>CH 140<br>5700MHz |   | 11400                | 45.92                     | -28.08                  | 74                                | 51.48                           | 39.6                          | 16.42                  | 61.58                      | 100                  | 0                       | P                     | H             |
|                              |   | 17100                | 48.33                     | -19.87                  | 68.2                              | 43.24                           | 40.5                          | 20.67                  | 56.08                      | 100                  | 0                       | P                     | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   | 11400                | 46.46                     | -27.54                  | 74                                | 52.02                           | 39.6                          | 16.42                  | 61.58                      | 100                  | 0                       | P                     | V             |
|                              |   | 17100                | 47.99                     | -20.21                  | 68.2                              | 42.9                            | 40.5                          | 20.67                  | 56.08                      | 100                  | 0                       | P                     | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                       | 1. No other spurious found.<br>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<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A)(H/V) | Pol. |
|--------------------------------------|------|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|----------------------------|------|
| 802.11n<br>HT20<br>CH 100<br>5500MHz |      | 5458.48              | 65.28                     | -8.72                   | 74                                | 54.44                           | 31.73                         | 10.26                  | 31.15                      | 271                  | 139                     | P                          | H    |
|                                      |      | 5469.04              | 66.7                      | -1.5                    | 68.2                              | 55.79                           | 31.78                         | 10.28                  | 31.15                      | 271                  | 139                     | P                          | H    |
|                                      |      | 5452.72              | 45.51                     | -8.49                   | 54                                | 34.69                           | 31.71                         | 10.26                  | 31.15                      | 271                  | 139                     | A                          | H    |
|                                      | *    | 5500                 | 115.18                    | -                       | -                                 | 104.12                          | 31.9                          | 10.31                  | 31.15                      | 271                  | 139                     | P                          | H    |
|                                      | *    | 5500                 | 103.8                     | -                       | -                                 | 92.74                           | 31.9                          | 10.31                  | 31.15                      | 271                  | 139                     | A                          | H    |
|                                      |      |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            | H    |
|                                      |      | 5458.16              | 59.75                     | -14.25                  | 74                                | 48.91                           | 31.73                         | 10.26                  | 31.15                      | 246                  | 218                     | P                          | V    |
|                                      |      | 5469.68              | 60.85                     | -7.35                   | 68.2                              | 49.94                           | 31.78                         | 10.28                  | 31.15                      | 246                  | 218                     | P                          | V    |
|                                      |      | 5451.6               | 42.7                      | -11.3                   | 54                                | 31.88                           | 31.71                         | 10.26                  | 31.15                      | 246                  | 218                     | A                          | V    |
|                                      | *    | 5500                 | 108.54                    | -                       | -                                 | 97.48                           | 31.9                          | 10.31                  | 31.15                      | 246                  | 218                     | P                          | V    |
|                                      | *    | 5500                 | 97.47                     | -                       | -                                 | 86.41                           | 31.9                          | 10.31                  | 31.15                      | 246                  | 218                     | A                          | V    |
|                                      |      |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            | V    |
| 802.11n<br>HT20<br>CH 116<br>5580MHz |      | 5459.92              | 55.28                     | -18.72                  | 74                                | 46.7                            | 31.74                         | 10.27                  | 33.43                      | 280                  | 162                     | P                          | H    |
|                                      |      | 5460.16              | 56.85                     | -11.35                  | 68.2                              | 48.27                           | 31.74                         | 10.27                  | 33.43                      | 280                  | 162                     | P                          | H    |
|                                      |      | 5452.72              | 44.21                     | -9.79                   | 54                                | 35.67                           | 31.71                         | 10.26                  | 33.43                      | 280                  | 162                     | A                          | H    |
|                                      | *    | 5580                 | 120.36                    | -                       | -                                 | 111.6                           | 31.8                          | 10.4                   | 33.44                      | 280                  | 162                     | P                          | H    |
|                                      | *    | 5580                 | 108.84                    | -                       | -                                 | 100.08                          | 31.8                          | 10.4                   | 33.44                      | 280                  | 162                     | A                          | H    |
|                                      |      | 5737.28              | 59.01                     | -9.19                   | 68.2                              | 49.87                           | 32.07                         | 10.53                  | 33.46                      | 280                  | 162                     | P                          | H    |
|                                      |      | 5457.76              | 53.48                     | -20.52                  | 74                                | 44.92                           | 31.73                         | 10.26                  | 33.43                      | 251                  | 124                     | P                          | V    |
|                                      |      | 5463.76              | 53.08                     | -15.12                  | 68.2                              | 44.48                           | 31.76                         | 10.27                  | 33.43                      | 251                  | 124                     | P                          | V    |
|                                      |      | 5452.24              | 42.21                     | -11.79                  | 54                                | 33.67                           | 31.71                         | 10.26                  | 33.43                      | 251                  | 124                     | A                          | V    |
|                                      | *    | 5580                 | 114.16                    | -                       | -                                 | 105.4                           | 31.8                          | 10.4                   | 33.44                      | 251                  | 124                     | P                          | V    |
|                                      | *    | 5580                 | 103.35                    | -                       | -                                 | 94.59                           | 31.8                          | 10.4                   | 33.44                      | 251                  | 124                     | A                          | V    |
|                                      |      | 5741.69              | 57.23                     | -10.97                  | 68.2                              | 48.08                           | 32.08                         | 10.53                  | 33.46                      | 251                  | 124                     | P                          | V    |



## FCC RADIO TEST REPORT

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|                                      |   |         |        |       |      |        |       |       |       |     |     |   |   |
|--------------------------------------|---|---------|--------|-------|------|--------|-------|-------|-------|-----|-----|---|---|
| 802.11n<br>HT20<br>CH 140<br>5700MHz | *   | 5700    | 113.96 | -     | -    | 102.71 | 32    | 10.5  | 31.25 | 275 | 159 | P | H |
|                                      | *   | 5700    | 102.49 | -     | -    | 91.24  | 32    | 10.5  | 31.25 | 275 | 159 | A | H |
|                                      |   | 5725    | 66.82  | -1.38 | 68.2 | 55.51  | 32.05 | 10.52 | 31.26 | 275 | 159 | P | H |
|                                      |   |         |        |       |      |        |       |       |       |     |     |   | H |
|                                      |   |         |        |       |      |        |       |       |       |     |     |   | H |
|                                      |   |         |        |       |      |        |       |       |       |     |     |   | H |
|                                      | *   | 5700    | 104.49 | -     | -    | 93.24  | 32    | 10.5  | 31.25 | 281 | 208 | P | V |
|                                      | *   | 5700    | 92.73  | -     | -    | 81.48  | 32    | 10.5  | 31.25 | 281 | 208 | A | V |
|                                      |   | 5726.36 | 59.62  | -8.58 | 68.2 | 48.31  | 32.05 | 10.52 | 31.26 | 281 | 208 | P | V |
|                                      |   |         |        |       |      |        |       |       |       |     |     |   | V |
|                                      |   |         |        |       |      |        |       |       |       |     |     |   | V |
|                                      |   |         |        |       |      |        |       |       |       |     |     |   | V |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |       |      |        |       |       |       |     |     |   |   |



## Band 3 - 5470~5725MHz

## WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI                                 | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT20<br>CH 100<br>5500MHz |   | 11000                | 47.41                     | -26.59                  | 74                                | 52.61                           | 40.2                          | 16.1                   | 61.5                       | 100                  | 0                       | P                     | H             |
|                                      |   | 16500                | 53.15                     | -15.05                  | 68.2                              | 50.87                           | 39.4                          | 20.18                  | 57.3                       | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11000                | 47.45                     | -26.55                  | 74                                | 52.65                           | 40.2                          | 16.1                   | 61.5                       | 100                  | 0                       | P                     | V             |
|                                      |   | 16500                | 45.73                     | -22.47                  | 68.2                              | 43.45                           | 39.4                          | 20.18                  | 57.3                       | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 116<br>5580MHz |   | 11160                | 45.98                     | -28.02                  | 74                                | 51.66                           | 39.62                         | 16.23                  | 61.53                      | 100                  | 0                       | P                     | H             |
|                                      |   | 16740                | 64.55                     | -3.65                   | 68.2                              | 60.6                            | 40.4                          | 20.37                  | 56.82                      | 100                  | 123                     | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11160                | 45.6                      | -28.4                   | 74                                | 51.28                           | 39.62                         | 16.23                  | 61.53                      | 100                  | 0                       | P                     | V             |
|                                      |   | 16740                | 61.55                     | -6.65                   | 68.2                              | 57.6                            | 40.4                          | 20.37                  | 56.82                      | 100                  | 146                     | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 140<br>5700MHz |   | 11400                | 46.31                     | -27.69                  | 74                                | 51.87                           | 39.6                          | 16.42                  | 61.58                      | 100                  | 0                       | P                     | H             |
|                                      |   | 17100                | 50.22                     | -17.98                  | 68.2                              | 45.13                           | 40.5                          | 20.67                  | 56.08                      | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11400                | 47.07                     | -26.93                  | 74                                | 52.63                           | 39.6                          | 16.42                  | 61.58                      | 100                  | 0                       | P                     | V             |
|                                      |   | 17100                | 47.9                      | -20.3                   | 68.2                              | 42.81                           | 40.5                          | 20.67                  | 56.08                      | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                               | 1. No other spurious found.<br>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<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A)(H/V) | Pol. |
|--------------------------------------|------|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|----------------------------|------|
| 802.11n<br>HT40<br>CH 102<br>5510MHz |      | 5459.92              | 65.48                     | -8.52                   | 74                                | 54.62                           | 31.74                         | 10.27                  | 31.15                      | 267                  | 139                     | P                          | H    |
|                                      |      | 5469.76              | 67                        | -1.2                    | 68.2                              | 56.09                           | 31.78                         | 10.28                  | 31.15                      | 267                  | 139                     | P                          | H    |
|                                      |      | 5458.72              | 47.41                     | -6.59                   | 54                                | 36.57                           | 31.73                         | 10.26                  | 31.15                      | 267                  | 139                     | A                          | H    |
|                                      | *    | 5510                 | 111.24                    | -                       | -                                 | 100.2                           | 31.88                         | 10.32                  | 31.16                      | 267                  | 139                     | P                          | H    |
|                                      | *    | 5510                 | 100.2                     | -                       | -                                 | 89.16                           | 31.88                         | 10.32                  | 31.16                      | 267                  | 139                     | A                          | H    |
|                                      |      | 5743.895             | 54.05                     | -14.15                  | 68.2                              | 42.69                           | 32.09                         | 10.54                  | 31.27                      | 267                  | 139                     | P                          | H    |
|                                      |      | 5459.2               | 60.13                     | -13.87                  | 74                                | 49.27                           | 31.74                         | 10.27                  | 31.15                      | 264                  | 218                     | P                          | V    |
|                                      |      | 5469.76              | 61.78                     | -6.42                   | 68.2                              | 50.87                           | 31.78                         | 10.28                  | 31.15                      | 264                  | 218                     | P                          | V    |
|                                      |      | 5452.96              | 44.32                     | -9.68                   | 54                                | 33.5                            | 31.71                         | 10.26                  | 31.15                      | 264                  | 218                     | A                          | V    |
|                                      | *    | 5510                 | 106.02                    | -                       | -                                 | 94.98                           | 31.88                         | 10.32                  | 31.16                      | 264                  | 218                     | P                          | V    |
|                                      | *    | 5510                 | 94.96                     | -                       | -                                 | 83.92                           | 31.88                         | 10.32                  | 31.16                      | 264                  | 218                     | A                          | V    |
|                                      |      | 5759.96              | 53.52                     | -14.68                  | 68.2                              | 42.13                           | 32.12                         | 10.55                  | 31.28                      | 264                  | 218                     | P                          | V    |
| 802.11n<br>HT40<br>CH 110<br>5550MHz |      | 5459.92              | 62.65                     | -11.35                  | 74                                | 54.07                           | 31.74                         | 10.27                  | 33.43                      | 258                  | 141                     | P                          | H    |
|                                      |      | 5468.56              | 65.34                     | -2.86                   | 68.2                              | 56.72                           | 31.77                         | 10.28                  | 33.43                      | 258                  | 141                     | P                          | H    |
|                                      |      | 5459.92              | 51.29                     | -2.71                   | 54                                | 42.71                           | 31.74                         | 10.27                  | 33.43                      | 258                  | 141                     | A                          | H    |
|                                      | *    | 5550                 | 118.22                    | -                       | -                                 | 109.5                           | 31.8                          | 10.36                  | 33.44                      | 258                  | 141                     | P                          | H    |
|                                      | *    | 5550                 | 107.32                    | -                       | -                                 | 98.6                            | 31.8                          | 10.36                  | 33.44                      | 258                  | 141                     | A                          | H    |
|                                      |      | 5747.99              | 61.98                     | -6.22                   | 68.2                              | 52.8                            | 32.1                          | 10.54                  | 33.46                      | 258                  | 141                     | P                          | H    |
|                                      |      | 5456.32              | 55.24                     | -18.76                  | 74                                | 46.68                           | 31.73                         | 10.26                  | 33.43                      | 276                  | 175                     | P                          | V    |
|                                      |      | 5463.28              | 55.42                     | -12.78                  | 68.2                              | 46.83                           | 31.75                         | 10.27                  | 33.43                      | 276                  | 175                     | P                          | V    |
|                                      |      | 5459.92              | 44.39                     | -9.61                   | 54                                | 35.81                           | 31.74                         | 10.27                  | 33.43                      | 276                  | 175                     | A                          | V    |
|                                      | *    | 5550                 | 109.47                    | -                       | -                                 | 100.75                          | 31.8                          | 10.36                  | 33.44                      | 276                  | 175                     | P                          | V    |
|                                      | *    | 5550                 | 98.48                     | -                       | -                                 | 89.76                           | 31.8                          | 10.36                  | 33.44                      | 276                  | 175                     | A                          | V    |
|                                      |      | 5747.675             | 61.31                     | -6.89                   | 68.2                              | 52.13                           | 32.1                          | 10.54                  | 33.46                      | 276                  | 175                     | P                          | V    |



## FCC RADIO TEST REPORT

Report No. : FR8N0846D

|                                      |   |          |        |        |      |        |       |       |       |     |     |   |   |
|--------------------------------------|---|----------|--------|--------|------|--------|-------|-------|-------|-----|-----|---|---|
| 802.11n<br>HT40<br>CH 134<br>5670MHz |   | 5440.3   | 53.6   | -20.4  | 74   | 42.85  | 31.66 | 10.24 | 31.15 | 280 | 158 | P | H |
|                                      |   | 5466.55  | 52.16  | -16.04 | 68.2 | 41.27  | 31.77 | 10.27 | 31.15 | 280 | 158 | P | H |
|                                      |   | 5452.55  | 42.48  | -11.52 | 54   | 31.66  | 31.71 | 10.26 | 31.15 | 280 | 158 | A | H |
|                                      | *   | 5670     | 114.03 | -      | -    | 102.96 | 31.82 | 10.48 | 31.23 | 280 | 158 | P | H |
|                                      | *   | 5670     | 102.79 | -      | -    | 91.72  | 31.82 | 10.48 | 31.23 | 280 | 158 | A | H |
|                                      |   | 5728.775 | 67.08  | -1.12  | 68.2 | 55.76  | 32.06 | 10.52 | 31.26 | 280 | 158 | P | H |
|                                      |   | 5410.2   | 53.59  | -20.41 | 74   | 42.99  | 31.54 | 10.21 | 31.15 | 253 | 215 | P | V |
|                                      |   | 5465.85  | 52.35  | -15.85 | 68.2 | 41.47  | 31.76 | 10.27 | 31.15 | 253 | 215 | P | V |
|                                      |   | 5452.9   | 42.46  | -11.54 | 54   | 31.64  | 31.71 | 10.26 | 31.15 | 253 | 215 | A | V |
|                                      | *   | 5670     | 105.43 | -      | -    | 94.36  | 31.82 | 10.48 | 31.23 | 253 | 215 | P | V |
|                                      | *   | 5670     | 94.2   | -      | -    | 83.13  | 31.82 | 10.48 | 31.23 | 253 | 215 | A | V |
|                                      |   | 5730.525 | 58.8   | -9.4   | 68.2 | 47.49  | 32.06 | 10.52 | 31.27 | 253 | 215 | P | V |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |          |        |        |      |        |       |       |       |     |     |   |   |



## Band 3 - 5470~5725MHz

## WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI                                 | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT40<br>CH 102<br>5510MHz |   | 11020                | 47.7                      | -26.3                   | 74                                | 52.96                           | 40.12                         | 16.12                  | 61.5                       | 100                  | 0                       | P                     | H             |
|                                      |   | 16530                | 46.73                     | -21.47                  | 68.2                              | 44.37                           | 39.4                          | 20.2                   | 57.24                      | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11020                | 47.6                      | -26.4                   | 74                                | 52.86                           | 40.12                         | 16.12                  | 61.5                       | 100                  | 0                       | P                     | V             |
|                                      |   | 16530                | 45.93                     | -22.27                  | 68.2                              | 43.57                           | 39.4                          | 20.2                   | 57.24                      | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT40<br>CH 110<br>5550MHz |   | 11100                | 46.97                     | -27.03                  | 74                                | 52.51                           | 39.8                          | 16.18                  | 61.52                      | 100                  | 0                       | P                     | H             |
|                                      |   | 16650                | 64.4                      | -3.8                    | 68.2                              | 61.3                            | 39.8                          | 20.3                   | 57                         | 100                  | 124                     | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11100                | 46.13                     | -27.87                  | 74                                | 51.67                           | 39.8                          | 16.18                  | 61.52                      | 100                  | 0                       | P                     | V             |
|                                      |   | 16650                | 59.5                      | -8.7                    | 68.2                              | 56.4                            | 39.8                          | 20.3                   | 57                         | 100                  | 147                     | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT40<br>CH 134<br>5670MHz |   | 11340                | 47.6                      | -26.4                   | 74                                | 53.25                           | 39.54                         | 16.38                  | 61.57                      | 100                  | 0                       | P                     | H             |
|                                      |   | 17010                | 59.01                     | -9.19                   | 68.2                              | 54.2                            | 40.5                          | 20.59                  | 56.28                      | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11340                | 46.98                     | -27.02                  | 74                                | 52.63                           | 39.54                         | 16.38                  | 61.57                      | 100                  | 0                       | P                     | V             |
|                                      |   | 17010                | 53.27                     | -14.93                  | 68.2                              | 48.46                           | 40.5                          | 20.59                  | 56.28                      | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                               | 1. No other spurious found.<br>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<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>(P/A) | Avg.<br>(H/V) |
|--|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|---------------|---------------|
| 802.11ac<br>VHT80<br>CH 106<br>5530MHz |   | 5456.05              | 64.09                     | -9.91                   | 74                                | 53.26                           | 31.72                         | 10.26                  | 31.15                      | 293                  | 161                     | P             | H             |
|  |   | 5466.55              | 63.43                     | -4.77                   | 68.2                              | 52.54                           | 31.77                         | 10.27                  | 31.15                      | 293                  | 161                     | P             | H             |
|  |   | 5459.55              | 47.95                     | -6.05                   | 54                                | 37.09                           | 31.74                         | 10.27                  | 31.15                      | 293                  | 161                     | A             | H             |
|  | *   | 5530                 | 106.9                     | -                       | -                                 | 95.89                           | 31.84                         | 10.34                  | 31.17                      | 293                  | 161                     | P             | H             |
|  | *   | 5530                 | 96.72                     | -                       | -                                 | 85.71                           | 31.84                         | 10.34                  | 31.17                      | 293                  | 161                     | A             | H             |
|  |   | 5760.275             | 54.83                     | -13.37                  | 68.2                              | 43.44                           | 32.12                         | 10.55                  | 31.28                      | 293                  | 161                     | P             | H             |
|  |   | 5455                 | 57.9                      | -16.1                   | 74                                | 47.07                           | 31.72                         | 10.26                  | 31.15                      | 266                  | 215                     | P             | V             |
|  |   | 5465.85              | 60.07                     | -8.13                   | 68.2                              | 49.19                           | 31.76                         | 10.27                  | 31.15                      | 266                  | 215                     | P             | V             |
|  |   | 5459.2               | 44.69                     | -9.31                   | 54                                | 33.83                           | 31.74                         | 10.27                  | 31.15                      | 266                  | 215                     | A             | V             |
|  | *   | 5530                 | 101.48                    | -                       | -                                 | 90.47                           | 31.84                         | 10.34                  | 31.17                      | 266                  | 215                     | P             | V             |
|  | *   | 5530                 | 91.25                     | -                       | -                                 | 80.24                           | 31.84                         | 10.34                  | 31.17                      | 266                  | 215                     | A             | V             |
|  |   | 5761.22              | 54.02                     | -14.18                  | 68.2                              | 42.63                           | 32.12                         | 10.55                  | 31.28                      | 266                  | 215                     | P             | V             |
| 802.11ac<br>VHT80<br>CH 122<br>5610MHz |   | 5450.08              | 62.75                     | -11.25                  | 74                                | 51.94                           | 31.7                          | 10.26                  | 31.15                      | 290                  | 162                     | P             | H             |
|  |   | 5466.4               | 65.08                     | -3.12                   | 68.2                              | 54.19                           | 31.77                         | 10.27                  | 31.15                      | 290                  | 162                     | P             | H             |
|  |   | 5459.44              | 51.17                     | -2.83                   | 54                                | 40.31                           | 31.74                         | 10.27                  | 31.15                      | 290                  | 162                     | A             | H             |
|  | *   | 5610                 | 111.81                    | -                       | -                                 | 100.81                          | 31.78                         | 10.43                  | 31.21                      | 290                  | 162                     | P             | H             |
|  | *   | 5610                 | 101.73                    | -                       | -                                 | 90.73                           | 31.78                         | 10.43                  | 31.21                      | 290                  | 162                     | A             | H             |
|  |   | 5731.925             | 67.11                     | -1.09                   | 68.2                              | 55.79                           | 32.06                         | 10.53                  | 31.27                      | 290                  | 162                     | P             | H             |
|  |   | 5459.92              | 59.2                      | -14.8                   | 74                                | 48.34                           | 31.74                         | 10.27                  | 31.15                      | 292                  | 217                     | P             | V             |
|  |   | 5466.4               | 61.02                     | -7.18                   | 68.2                              | 50.13                           | 31.77                         | 10.27                  | 31.15                      | 292                  | 217                     | P             | V             |
|  |   | 5459.92              | 47.12                     | -6.88                   | 54                                | 36.26                           | 31.74                         | 10.27                  | 31.15                      | 292                  | 217                     | A             | V             |
|  | *   | 5610                 | 105.22                    | -                       | -                                 | 94.22                           | 31.78                         | 10.43                  | 31.21                      | 292                  | 217                     | P             | V             |
|  | *   | 5610                 | 94.83                     | -                       | -                                 | 83.83                           | 31.78                         | 10.43                  | 31.21                      | 292                  | 217                     | A             | V             |
|  |   | 5746.415             | 61.18                     | -7.02                   | 68.2                              | 49.82                           | 32.09                         | 10.54                  | 31.27                      | 292                  | 217                     | P             | V             |
| Remark                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |               |               |



## Band 3 5470~5725MHz

## WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI<br>Ant.<br>1                      | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 106<br>5530MHz |   | 11060                | 46.4                      | -27.6                   | 74                                | 51.8                            | 39.96                         | 16.15                  | 61.51                      | 100                  | 0                       | P                     | H             |
|  |   | 16590                | 45.88                     | -22.32                  | 68.2                              | 43.35                           | 39.4                          | 20.25                  | 57.12                      | 100                  | 0                       | P                     | H             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|  |   | 11060                | 46.82                     | -27.18                  | 74                                | 52.22                           | 39.96                         | 16.15                  | 61.51                      | 100                  | 0                       | P                     | V             |
|  |   | 16590                | 46.11                     | -22.09                  | 68.2                              | 43.58                           | 39.4                          | 20.25                  | 57.12                      | 100                  | 0                       | P                     | V             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11ac<br>VHT80<br>CH 122<br>5610MHz |   | 11220                | 44.83                     | -29.17                  | 74                                | 50.59                           | 39.5                          | 16.28                  | 61.54                      | 100                  | 0                       | P                     | H             |
|  |   | 16830                | 58.44                     | -9.76                   | 68.2                              | 54.11                           | 40.52                         | 20.45                  | 56.64                      | 100                  | 0                       | P                     | H             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|  |   | 11220                | 44.65                     | -29.35                  | 74                                | 50.41                           | 39.5                          | 16.28                  | 61.54                      | 100                  | 0                       | P                     | V             |
|  |   | 16830                | 52.2                      | -16                     | 68.2                              | 47.87                           | 40.52                         | 20.45                  | 56.64                      | 100                  | 0                       | P                     | V             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 3 - Straddle Channel

## WIFI 802.11a (Band Edge @ 3m)

| WIFI                         | Note  | Frequency | Level  | Over   | Limit | Read   | Antenna | Path  | Preamp | Ant | Table | Peak   | Pol.   |
|------------------------------|---|-----------|--------|--------|-------|--------|---------|-------|--------|-----|-------|--------|--------|
|                              |   |           |        |        |       |        |         |       |        |     |       | Limit  | Line   |
|                              |   |           |        |        |       |        |         |       |        |     |       | Factor | Factor |
| 802.11a<br>CH 144<br>5720MHz |   | 5402.65   | 54.01  | -19.99 | 74    | 43.45  | 31.51   | 10.2  | 31.15  | 273 | 162   | P      | H      |
|                              |   | 5464.66   | 52.96  | -15.24 | 68.2  | 42.08  | 31.76   | 10.27 | 31.15  | 273 | 162   | P      | H      |
|                              |   | 5452.96   | 42.09  | -11.91 | 54    | 31.27  | 31.71   | 10.26 | 31.15  | 273 | 162   | A      | H      |
|                              | *   | 5720      | 118.37 | -      | -     | 107.07 | 32.04   | 10.52 | 31.26  | 273 | 162   | P      | H      |
|                              | *   | 5720      | 107.14 | -      | -     | 95.84  | 32.04   | 10.52 | 31.26  | 273 | 162   | A      | H      |
|                              |   | 5893.25   | 56.28  | -11.92 | 68.2  | 44.58  | 32.39   | 10.65 | 31.34  | 273 | 162   | P      | H      |
|                              |   | 5454.91   | 53.31  | -20.69 | 74    | 42.48  | 31.72   | 10.26 | 31.15  | 299 | 132   | P      | V      |
|                              |   | 5459.98   | 52.58  | -21.42 | 74    | 41.72  | 31.74   | 10.27 | 31.15  | 299 | 132   | P      | V      |
|                              |   | 5448.67   | 41.62  | -12.38 | 54    | 30.83  | 31.69   | 10.25 | 31.15  | 299 | 132   | A      | V      |
|                              | *   | 5720      | 111.39 | -      | -     | 100.09 | 32.04   | 10.52 | 31.26  | 299 | 132   | P      | V      |
|                              | *   | 5720      | 100.09 | -      | -     | 88.79  | 32.04   | 10.52 | 31.26  | 299 | 132   | A      | V      |
|                              |   | 5930.5    | 54.82  | -13.38 | 68.2  | 42.97  | 32.52   | 10.68 | 31.35  | 299 | 132   | P      | V      |
| Remark                       | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |        |        |       |        |         |       |        |     |       |        |        |



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

| WIFI                         | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11a<br>CH 144<br>5720MHz |   | 11440                | 47.04                     | -26.96                  | 74                                | 52.5                            | 39.68                         | 16.45                  | 61.59                      | 100                  | 0                       | P                     | H             |
|                              |   | 17160                | 61.56                     | -6.64                   | 68.2                              | 56.24                           | 40.56                         | 20.71                  | 55.95                      | 100                  | 0                       | P                     | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   | 11440                | 47.03                     | -26.97                  | 74                                | 52.49                           | 39.68                         | 16.45                  | 61.59                      | 100                  | 0                       | P                     | V             |
|                              |   | 17160                | 54.98                     | -13.22                  | 68.2                              | 49.66                           | 40.56                         | 20.71                  | 55.95                      | 100                  | 0                       | P                     | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                       | 1. No other spurious found.<br>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<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A)(H/V) | Pol. |
|--------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|----------------------------|------|
| 802.11n<br>HT20<br>CH 144<br>5720MHz |   | 5445.16              | 54.41                     | -19.59                  | 74                                | 45.92                           | 31.68                         | 10.25                  | 33.44                      | 257                  | 163                     | P                          | H    |
|                                      |   | 5468.56              | 53.58                     | -14.62                  | 68.2                              | 44.96                           | 31.77                         | 10.28                  | 33.43                      | 257                  | 163                     | P                          | H    |
|                                      |   | 5452.96              | 43.03                     | -10.97                  | 54                                | 34.49                           | 31.71                         | 10.26                  | 33.43                      | 257                  | 163                     | A                          | H    |
|                                      | *   | 5720                 | 118.9                     | -                       | -                                 | 109.8                           | 32.04                         | 10.52                  | 33.46                      | 257                  | 163                     | P                          | H    |
|                                      | *   | 5720                 | 107.91                    | -                       | -                                 | 98.81                           | 32.04                         | 10.52                  | 33.46                      | 257                  | 163                     | A                          | H    |
|                                      |   | 5888.75              | 58.41                     | -9.79                   | 68.2                              | 48.86                           | 32.38                         | 10.65                  | 33.48                      | 257                  | 163                     | P                          | H    |
|                                      |   | 5404.21              | 53.39                     | -20.61                  | 74                                | 45.11                           | 31.52                         | 10.2                   | 33.44                      | 282                  | 131                     | P                          | V    |
|                                      |   | 5469.34              | 53.21                     | -14.99                  | 68.2                              | 44.58                           | 31.78                         | 10.28                  | 33.43                      | 282                  | 131                     | P                          | V    |
|                                      |   | 5442.04              | 41.93                     | -12.07                  | 54                                | 33.45                           | 31.67                         | 10.25                  | 33.44                      | 282                  | 131                     | A                          | V    |
|                                      | *   | 5720                 | 111.62                    | -                       | -                                 | 102.52                          | 32.04                         | 10.52                  | 33.46                      | 282                  | 131                     | P                          | V    |
|                                      | *   | 5720                 | 100.33                    | -                       | -                                 | 91.23                           | 32.04                         | 10.52                  | 33.46                      | 282                  | 131                     | A                          | V    |
|                                      |   | 5875                 | 56.24                     | -11.96                  | 68.2                              | 46.73                           | 32.35                         | 10.64                  | 33.48                      | 282                  | 131                     | P                          | V    |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            |      |



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

| WIFI                                 | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT20<br>CH 144<br>5720MHz |   | 11440                | 46.88                     | -27.12                  | 74                                | 52.34                           | 39.68                         | 16.45                  | 61.59                      | 100                  | 0                       | P                     | H             |
|                                      |   | 17160                | 64.83                     | -3.37                   | 68.2                              | 59.51                           | 40.56                         | 20.71                  | 55.95                      | 100                  | 122                     | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11440                | 46.73                     | -27.27                  | 74                                | 52.19                           | 39.68                         | 16.45                  | 61.59                      | 100                  | 0                       | P                     | V             |
|                                      |   | 17160                | 57.73                     | -10.47                  | 68.2                              | 52.41                           | 40.56                         | 20.71                  | 55.95                      | 100                  | 198                     | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 3 - Straddle Channel

## WIFI 802.11n HT40 (Band Edge @ 3m)

| WIFI                                 | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A)(H/V) | Pol. |
|--------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|----------------------------|------|
| 802.11n<br>HT40<br>CH 142<br>5710MHz |   | 5428.78              | 54.53                     | -19.47                  | 74                                | 46.12                           | 31.62                         | 10.23                  | 33.44                      | 257                  | 163                     | P                          | H    |
|                                      |   | 5468.56              | 53.15                     | -15.05                  | 68.2                              | 44.53                           | 31.77                         | 10.28                  | 33.43                      | 257                  | 163                     | P                          | H    |
|                                      |   | 5452.96              | 43.4                      | -10.6                   | 54                                | 34.86                           | 31.71                         | 10.26                  | 33.43                      | 257                  | 163                     | A                          | H    |
|                                      | *   | 5710                 | 118.33                    | -                       | -                                 | 109.26                          | 32.02                         | 10.51                  | 33.46                      | 257                  | 163                     | P                          | H    |
|                                      | *   | 5710                 | 106.51                    | -                       | -                                 | 97.44                           | 32.02                         | 10.51                  | 33.46                      | 257                  | 163                     | A                          | H    |
|                                      |   | 5851                 | 59.92                     | -8.28                   | 68.2                              | 50.48                           | 32.3                          | 10.62                  | 33.48                      | 257                  | 163                     | P                          | H    |
|                                      |   | 5427.22              | 54.05                     | -19.95                  | 74                                | 45.65                           | 31.61                         | 10.23                  | 33.44                      | 323                  | 173                     | P                          | V    |
|                                      |   | 5460.76              | 52.63                     | -15.57                  | 68.2                              | 44.05                           | 31.74                         | 10.27                  | 33.43                      | 323                  | 173                     | P                          | V    |
|                                      |   | 5457.25              | 42.53                     | -11.47                  | 54                                | 33.97                           | 31.73                         | 10.26                  | 33.43                      | 323                  | 173                     | A                          | V    |
|                                      | *   | 5710                 | 108.25                    | -                       | -                                 | 99.18                           | 32.02                         | 10.51                  | 33.46                      | 323                  | 173                     | P                          | V    |
|                                      | *   | 5710                 | 97.36                     | -                       | -                                 | 88.29                           | 32.02                         | 10.51                  | 33.46                      | 323                  | 173                     | A                          | V    |
|                                      |   | 5850.75              | 55.14                     | -13.06                  | 68.2                              | 45.7                            | 32.3                          | 10.62                  | 33.48                      | 323                  | 173                     | P                          | V    |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            |      |



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

| WIFI                                 | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT40<br>CH 142<br>5710MHz |   | 11420                | 48.09                     | -25.91                  | 74                                | 53.6                            | 39.64                         | 16.43                  | 61.58                      | 100                  | 0                       | P                     | H             |
|                                      |   | 17130                | 64.51                     | -3.69                   | 68.2                              | 59.29                           | 40.53                         | 20.7                   | 56.01                      | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11420                | 47.43                     | -26.57                  | 74                                | 52.94                           | 39.64                         | 16.43                  | 61.58                      | 100                  | 0                       | P                     | V             |
|                                      |   | 17130                | 60.11                     | -8.09                   | 68.2                              | 54.89                           | 40.53                         | 20.7                   | 56.01                      | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 3 - Straddle Channel

## WIFI 802.11ac VHT80 (Band Edge @ 3m)

| WIFI                                   | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>(P/A) | Avg.<br>(H/V) |
|--|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|---------------|---------------|
| 802.11ac<br>VHT80<br>CH 138<br>5690MHz |   | 5459.59              | 56.71                     | -17.29                  | 74                                | 48.13                           | 31.74                         | 10.27                  | 33.43                      | 272                  | 160                     | P             | H             |
|  |   | 5467.78              | 57.16                     | -11.04                  | 68.2                              | 48.55                           | 31.77                         | 10.27                  | 33.43                      | 272                  | 160                     | P             | H             |
|  |   | 5452.57              | 45.21                     | -8.79                   | 54                                | 36.67                           | 31.71                         | 10.26                  | 33.43                      | 272                  | 160                     | A             | H             |
|  | *   | 5690                 | 115.69                    | -                       | -                                 | 106.72                          | 31.94                         | 10.49                  | 33.46                      | 272                  | 160                     | P             | H             |
|  | *   | 5690                 | 105.37                    | -                       | -                                 | 96.4                            | 31.94                         | 10.49                  | 33.46                      | 272                  | 160                     | A             | H             |
|  |   | 5852.25              | 66.07                     | -2.13                   | 68.2                              | 56.63                           | 32.3                          | 10.62                  | 33.48                      | 272                  | 160                     | P             | H             |
|  |   | 5422.54              | 53.35                     | -20.65                  | 74                                | 44.98                           | 31.59                         | 10.22                  | 33.44                      | 310                  | 129                     | P             | V             |
|  |   | 5467.39              | 53.01                     | -15.19                  | 68.2                              | 44.4                            | 31.77                         | 10.27                  | 33.43                      | 310                  | 129                     | P             | V             |
|  |   | 5456.47              | 42.38                     | -11.62                  | 54                                | 33.82                           | 31.73                         | 10.26                  | 33.43                      | 310                  | 129                     | A             | V             |
|  | *   | 5690                 | 109.8                     | -                       | -                                 | 100.83                          | 31.94                         | 10.49                  | 33.46                      | 310                  | 129                     | P             | V             |
|  | *   | 5690                 | 98.54                     | -                       | -                                 | 89.57                           | 31.94                         | 10.49                  | 33.46                      | 310                  | 129                     | A             | V             |
|  |   | 5851.25              | 62.27                     | -5.93                   | 68.2                              | 52.83                           | 32.3                          | 10.62                  | 33.48                      | 310                  | 129                     | P             | V             |
| Remark                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |               |               |



## Band 3 - Straddle Channel

## WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI                                   | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 138<br>5690MHz |   | 11380                | 47.07                     | -26.93                  | 74                                | 52.66                           | 39.58                         | 16.41                  | 61.58                      | 100                  | 0                       | P                     | H             |
|  |   | 17070                | 62.28                     | -5.92                   | 68.2                              | 57.29                           | 40.5                          | 20.64                  | 56.15                      | 100                  | 0                       | P                     | H             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|  |   | 11380                | 46.58                     | -27.42                  | 74                                | 52.17                           | 39.58                         | 16.41                  | 61.58                      | 100                  | 0                       | P                     | V             |
|  |   | 17070                | 55.11                     | -13.09                  | 68.2                              | 50.12                           | 40.5                          | 20.64                  | 56.15                      | 100                  | 0                       | P                     | V             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Emission below 1GHz

## WIFI 802.11ac VHT80 (LF @ 3m)

| WIFI                    | Note   | Frequency  | Level | Over   | Limit | Read  | Antenna | Path | Preamp | Ant | Table | Peak    | Pol.    |
|-------------------------|--------|--|-------|--------|-------|-------|---------|------|--------|-----|-------|---------|---------|
|                         |        |  |       |        |       |       |         |      |        |     |       | Avg.    |         |
|                         |        |  |       |        |       |       |         |      |        |     |       | ( P/A ) | ( H/V ) |
| 802.11ac<br>VHT80<br>LF |        | 186.17   | 30.55 | -12.95 | 43.5  | 44.16 | 14.77   | 1.96 | 30.34  | -   | -     | P       | H       |
|                         |        | 229.82   | 31.71 | -14.29 | 46    | 43.84 | 16.08   | 2.06 | 30.27  | -   | -     | P       | H       |
|                         |        | 239.52   | 33.02 | -12.98 | 46    | 44    | 17.19   | 2.08 | 30.25  | -   | -     | P       | H       |
|                         |        | 717.73   | 32.69 | -13.31 | 46    | 31.57 | 26.85   | 3.75 | 29.48  | -   | -     | P       | H       |
|                         |        | 851.59   | 33.24 | -12.76 | 46    | 29.46 | 28.89   | 4.1  | 29.21  | -   | -     | P       | H       |
|                         |        | 924.34   | 35.62 | -10.38 | 46    | 30.83 | 29.52   | 4.34 | 29.07  | 100 | 0     | P       | H       |
|                         |        |  |       |        |       |       |         |      |        |     |       |         | H       |
|                         |        |  |       |        |       |       |         |      |        |     |       |         | H       |
|                         |        |  |       |        |       |       |         |      |        |     |       |         | H       |
|                         |        |  |       |        |       |       |         |      |        |     |       |         | H       |
|                         |        |  |       |        |       |       |         |      |        |     |       |         | H       |
|                         |        |  |       |        |       |       |         |      |        |     |       |         | V       |
|                         |        | 61.04  | 31.65 | -8.35  | 40    | 49.19 | 11.77   | 1.15 | 30.46  | 100 | 0     | P       | V       |
|                         |        | 186.17   | 32.97 | -10.53 | 43.5  | 46.58 | 14.77   | 1.96 | 30.34  | -   | -     | P       | V       |
|                         |        | 194.9  | 34.2  | -9.3   | 43.5  | 47.72 | 14.83   | 1.98 | 30.33  | -   | -     | P       | V       |
|                         |        | 721.61   | 33.82 | -12.18 | 46    | 32.51 | 27.02   | 3.76 | 29.47  | -   | -     | P       | V       |
|                         |        | 819.58   | 32.59 | -13.41 | 46    | 30.34 | 27.48   | 4.03 | 29.26  | -   | -     | P       | V       |
|                         |        | 895.24   | 36.84 | -9.16  | 46    | 32.82 | 28.92   | 4.25 | 29.15  | -   | -     | P       | V       |
|                         |        |  |       |        |       |       |         |      |        |     |       |         | V       |
|                         |        |  |       |        |       |       |         |      |        |     |       |         | V       |
|                         |        |  |       |        |       |       |         |      |        |     |       |         | V       |
|                         |        |  |       |        |       |       |         |      |        |     |       |         | V       |
|                         |        |  |       |        |       |       |         |      |        |     |       |         | V       |
|                         | Remark | 1. No other spurious found.<br>2. All results are PASS against limit line. |       |        |       |       |         |      |        |     |       |         |         |



&lt;Chain 2&gt;

## Band 1 - 5150~5250MHz

## WIFI 802.11a (Band Edge @ 3m)

| WIFI                        | Note | Frequency | Level            | Over Limit | Limit Line       | Read Level     | Antenna Factor | Path Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg.  | Pol. |
|-----------------------------|------|-----------|------------------|------------|------------------|----------------|----------------|-----------|---------------|---------|-----------|------------|------|
|                             |      | ( MHz )   | ( dB $\mu$ V/m ) | ( dB )     | ( dB $\mu$ V/m ) | ( dB $\mu$ V ) | ( dB/m )       | ( dB )    | ( dB )        | ( cm )  | ( deg )   | (P/A)(H/V) |      |
| 802.11a<br>CH 36<br>5180MHz |      | 5149.5    | 64.19            | -9.81      | 74               | 53.45          | 31.9           | 9.98      | 31.14         | 100     | 217       | P          | H    |
|                             |      | 5150      | 51.9             | -2.1       | 54               | 41.16          | 31.9           | 9.98      | 31.14         | 100     | 217       | A          | H    |
|                             | *    | 5180      | 115.12           | -          | -                | 104.46         | 31.78          | 10.02     | 31.14         | 100     | 217       | P          | H    |
|                             | *    | 5180      | 104.03           | -          | -                | 93.37          | 31.78          | 10.02     | 31.14         | 100     | 217       | A          | H    |
|                             |      |           |                  |            |                  |                |                |           |               |         |           |            | H    |
|                             |      |           |                  |            |                  |                |                |           |               |         |           |            | H    |
|                             |      | 5149.24   | 60.88            | -13.12     | 74               | 50.14          | 31.9           | 9.98      | 31.14         | 100     | 247       | P          | V    |
|                             |      | 5149.76   | 50.49            | -3.51      | 54               | 39.75          | 31.9           | 9.98      | 31.14         | 100     | 247       | A          | V    |
|                             | *    | 5180      | 112.34           | -          | -                | 101.68         | 31.78          | 10.02     | 31.14         | 100     | 247       | P          | V    |
|                             | *    | 5180      | 101.13           | -          | -                | 90.47          | 31.78          | 10.02     | 31.14         | 100     | 247       | A          | V    |
|                             |      |           |                  |            |                  |                |                |           |               |         |           |            | V    |
| 802.11a<br>CH 44<br>5220MHz |      | 5150      | 56.23            | -17.77     | 74               | 47.82          | 31.9           | 9.98      | 33.47         | 110     | 220       | P          | H    |
|                             |      | 5150      | 44.34            | -9.66      | 54               | 35.93          | 31.9           | 9.98      | 33.47         | 110     | 220       | A          | H    |
|                             | *    | 5220      | 119.21           | -          | -                | 111.03         | 31.58          | 10.06     | 33.46         | 110     | 220       | P          | H    |
|                             | *    | 5220      | 109.04           | -          | -                | 100.86         | 31.58          | 10.06     | 33.46         | 110     | 220       | A          | H    |
|                             |      | 5360.04   | 59.65            | -14.35     | 74               | 51.58          | 31.34          | 10.17     | 33.44         | 110     | 220       | P          | H    |
|                             |      | 5370.68   | 44.14            | -9.86      | 54               | 36.02          | 31.38          | 10.18     | 33.44         | 110     | 220       | A          | H    |
|                             |      | 5145.86   | 53.04            | -20.96     | 74               | 44.62          | 31.91          | 9.98      | 33.47         | 103     | 236       | P          | V    |
|                             |      | 5148.2    | 42.79            | -11.21     | 54               | 34.38          | 31.9           | 9.98      | 33.47         | 103     | 236       | A          | V    |
|                             | *    | 5220      | 116.02           | -          | -                | 107.84         | 31.58          | 10.06     | 33.46         | 103     | 236       | P          | V    |
|                             | *    | 5220      | 104.94           | -          | -                | 96.76          | 31.58          | 10.06     | 33.46         | 103     | 236       | A          | V    |
|                             |      | 5435.64   | 53.53            | -20.47     | 74               | 45.09          | 31.64          | 10.24     | 33.44         | 103     | 236       | P          | V    |
|                             |      | 5449.92   | 42.67            | -11.33     | 54               | 34.16          | 31.7           | 10.25     | 33.44         | 103     | 236       | A          | V    |



## FCC RADIO TEST REPORT

Report No. : FR8N0846D

| 802.11a<br>CH 48<br>5240MHz |   | 5145.34 | 54.91  | -19.09 | 74 | 46.5   | 31.91 | 9.97  | 33.47 | 107 | 221 | P | H |  |
|-----------------------------|---|---------|--------|--------|----|--------|-------|-------|-------|-----|-----|---|---|--|
|                             |   | 5149.76 | 42.46  | -11.54 | 54 | 34.05  | 31.9  | 9.98  | 33.47 | 107 | 221 | A | H |  |
|                             | *   | 5240    | 119.53 | -      | -  | 111.46 | 31.46 | 10.07 | 33.46 | 107 | 221 | P | H |  |
|                             | *   | 5240    | 109.3  | -      | -  | 101.23 | 31.46 | 10.07 | 33.46 | 107 | 221 | A | H |  |
|                             |   | 5358.36 | 59.98  | -14.02 | 74 | 51.92  | 31.33 | 10.17 | 33.44 | 107 | 221 | P | H |  |
|                             |   | 5350    | 44.82  | -9.18  | 54 | 36.8   | 31.3  | 10.16 | 33.44 | 107 | 221 | A | H |  |
|                             |   | 5098.8  | 52.64  | -21.36 | 74 | 44.19  | 32    | 9.92  | 33.47 | 101 | 246 | P | V |  |
|                             |   | 5147.68 | 42.53  | -11.47 | 54 | 34.12  | 31.9  | 9.98  | 33.47 | 101 | 246 | A | V |  |
|                             | *   | 5240    | 116.6  | -      | -  | 108.53 | 31.46 | 10.07 | 33.46 | 101 | 246 | P | V |  |
|                             | *   | 5240    | 105.49 | -      | -  | 97.42  | 31.46 | 10.07 | 33.46 | 101 | 246 | A | V |  |
|                             |   | 5350.52 | 55.35  | -18.65 | 74 | 47.33  | 31.3  | 10.16 | 33.44 | 101 | 246 | P | V |  |
|                             |   | 5352.2  | 42.27  | -11.73 | 54 | 34.24  | 31.31 | 10.16 | 33.44 | 101 | 246 | A | V |  |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |        |       |       |       |     |     |   |   |  |



**Band 1 5150~5250MHz**  
**WIFI 802.11a (Harmonic @ 3m)**

| WIFI                        | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-----------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11a<br>CH 36<br>5180MHz |   | 10360                | 47.14                     | -21.06                  | 68.2                              | 51.95                           | 39.58                         | 15.6                   | 59.99                      | 100                  | 0                       | P                     | H             |
|                             |   | 15540                | 44.44                     | -29.56                  | 74                                | 44.67                           | 38.22                         | 19.59                  | 58.04                      | 100                  | 0                       | P                     | H             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                             |   | 10360                | 47.85                     | -20.35                  | 68.2                              | 52.66                           | 39.58                         | 15.6                   | 59.99                      | 100                  | 0                       | P                     | V             |
|                             |   | 15540                | 44.12                     | -29.88                  | 74                                | 44.35                           | 38.22                         | 19.59                  | 58.04                      | 100                  | 0                       | P                     | V             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11a<br>CH 44<br>5220MHz |   | 10440                | 47.3                      | -20.9                   | 68.2                              | 52.1                            | 39.7                          | 15.67                  | 60.17                      | 100                  | 0                       | P                     | H             |
|                             |   | 15660                | 48.16                     | -25.84                  | 74                                | 48.6                            | 37.8                          | 19.64                  | 57.88                      | 100                  | 0                       | P                     | H             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                             |   | 10440                | 47.85                     | -20.35                  | 68.2                              | 52.65                           | 39.7                          | 15.67                  | 60.17                      | 100                  | 0                       | P                     | V             |
|                             |   | 15660                | 45.75                     | -28.25                  | 74                                | 46.19                           | 37.8                          | 19.64                  | 57.88                      | 100                  | 0                       | P                     | V             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11a<br>CH 48<br>5240MHz |   | 10480                | 46.86                     | -21.34                  | 68.2                              | 51.72                           | 39.7                          | 15.7                   | 60.26                      | 100                  | 0                       | P                     | H             |
|                             |   | 15720                | 48.12                     | -25.88                  | 74                                | 48.5                            | 37.76                         | 19.65                  | 57.79                      | 100                  | 0                       | P                     | H             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                             |   | 10480                | 47.12                     | -21.08                  | 68.2                              | 51.98                           | 39.7                          | 15.7                   | 60.26                      | 100                  | 0                       | P                     | V             |
|                             |   | 15720                | 45.12                     | -28.88                  | 74                                | 45.5                            | 37.76                         | 19.65                  | 57.79                      | 100                  | 0                       | P                     | V             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 1 5150~5250MHz

## WIFI 802.11n HT20 (Band Edge @ 3m)

| WIFI                                | Note | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A)(H/V) | Pol. |
|-------------------------------------|------|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|----------------------------|------|
| 802.11n<br>HT20<br>CH 36<br>5180MHz |      | 5149.76              | 65.44                     | -8.56                   | 74                                | 54.7                            | 31.9                          | 9.98                   | 31.14                      | 100                  | 221                     | P                          | H    |
|                                     |      | 5150                 | 52.32                     | -1.68                   | 54                                | 41.58                           | 31.9                          | 9.98                   | 31.14                      | 100                  | 221                     | A                          | H    |
|                                     | *    | 5180                 | 115.25                    | -                       | -                                 | 104.59                          | 31.78                         | 10.02                  | 31.14                      | 100                  | 221                     | P                          | H    |
|                                     | *    | 5180                 | 104.18                    | -                       | -                                 | 93.52                           | 31.78                         | 10.02                  | 31.14                      | 100                  | 221                     | A                          | H    |
|                                     |      |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            | H    |
|                                     |      |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            | H    |
|                                     |      | 5150                 | 62.93                     | -11.07                  | 74                                | 52.19                           | 31.9                          | 9.98                   | 31.14                      | 100                  | 248                     | P                          | V    |
|                                     |      | 5150                 | 50.24                     | -3.76                   | 54                                | 39.5                            | 31.9                          | 9.98                   | 31.14                      | 100                  | 248                     | A                          | V    |
|                                     | *    | 5180                 | 112.06                    | -                       | -                                 | 101.4                           | 31.78                         | 10.02                  | 31.14                      | 100                  | 248                     | P                          | V    |
|                                     | *    | 5180                 | 101.23                    | -                       | -                                 | 90.57                           | 31.78                         | 10.02                  | 31.14                      | 100                  | 248                     | A                          | V    |
|                                     |      |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            | V    |
|                                     |      |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            | V    |
| 802.11n<br>HT20<br>CH 44<br>5220MHz |      | 5150                 | 62.04                     | -11.96                  | 74                                | 51.3                            | 31.9                          | 9.98                   | 31.14                      | 100                  | 219                     | P                          | H    |
|                                     |      | 5149.5               | 49.35                     | -4.65                   | 54                                | 38.61                           | 31.9                          | 9.98                   | 31.14                      | 100                  | 219                     | A                          | H    |
|                                     | *    | 5220                 | 123.39                    | -                       | -                                 | 112.89                          | 31.58                         | 10.06                  | 31.14                      | 100                  | 219                     | P                          | H    |
|                                     | *    | 5220                 | 112.19                    | -                       | -                                 | 101.69                          | 31.58                         | 10.06                  | 31.14                      | 100                  | 219                     | A                          | H    |
|                                     |      | 5454.4               | 58.54                     | -15.46                  | 74                                | 47.71                           | 31.72                         | 10.26                  | 31.15                      | 100                  | 219                     | P                          | H    |
|                                     |      | 5366.48              | 45.87                     | -8.13                   | 54                                | 35.48                           | 31.37                         | 10.17                  | 31.15                      | 100                  | 219                     | A                          | H    |
|                                     |      | 5149.76              | 58.62                     | -15.38                  | 74                                | 47.88                           | 31.9                          | 9.98                   | 31.14                      | 100                  | 244                     | P                          | V    |
|                                     |      | 5149.76              | 47.71                     | -6.29                   | 54                                | 36.97                           | 31.9                          | 9.98                   | 31.14                      | 100                  | 244                     | A                          | V    |
|                                     | *    | 5220                 | 119.59                    | -                       | -                                 | 109.09                          | 31.58                         | 10.06                  | 31.14                      | 100                  | 244                     | P                          | V    |
|                                     | *    | 5220                 | 108.09                    | -                       | -                                 | 97.59                           | 31.58                         | 10.06                  | 31.14                      | 100                  | 244                     | A                          | V    |
|                                     |      | 5406.24              | 54.97                     | -19.03                  | 74                                | 44.39                           | 31.52                         | 10.21                  | 31.15                      | 100                  | 244                     | P                          | V    |
|                                     |      | 5360.88              | 44.22                     | -9.78                   | 54                                | 33.86                           | 31.34                         | 10.17                  | 31.15                      | 100                  | 244                     | A                          | V    |



|                                     |   |         |        |        |    |       |       |       |       |     |     |   |   |
|-------------------------------------|---|---------|--------|--------|----|-------|-------|-------|-------|-----|-----|---|---|
| 802.11n<br>HT20<br>CH 48<br>5240MHz |   | 5146.38 | 56.55  | -17.45 | 74 | 45.8  | 31.91 | 9.98  | 31.14 | 100 | 219 | P | H |
|                                     |   | 5149.5  | 45.56  | -8.44  | 54 | 34.82 | 31.9  | 9.98  | 31.14 | 100 | 219 | A | H |
|                                     | *   | 5240    | 123.99 | -      | -  | 113.6 | 31.46 | 10.07 | 31.14 | 100 | 219 | P | H |
|                                     | *   | 5240    | 112.29 | -      | -  | 101.9 | 31.46 | 10.07 | 31.14 | 100 | 219 | A | H |
|                                     |   | 5350.24 | 61.91  | -12.09 | 74 | 51.6  | 31.3  | 10.16 | 31.15 | 100 | 219 | P | H |
|                                     |   | 5350.24 | 46.63  | -7.37  | 54 | 36.32 | 31.3  | 10.16 | 31.15 | 100 | 219 | A | H |
|                                     |   | 5139.62 | 55.78  | -18.22 | 74 | 45.03 | 31.92 | 9.97  | 31.14 | 100 | 245 | P | V |
|                                     |   | 5148.98 | 45     | -9     | 54 | 34.26 | 31.9  | 9.98  | 31.14 | 100 | 245 | A | V |
|                                     | *   | 5240    | 119.99 | -      | -  | 109.6 | 31.46 | 10.07 | 31.14 | 100 | 245 | P | V |
|                                     | *   | 5240    | 108.59 | -      | -  | 98.2  | 31.46 | 10.07 | 31.14 | 100 | 245 | A | V |
|                                     |   | 5352.2  | 56.59  | -17.41 | 74 | 46.27 | 31.31 | 10.16 | 31.15 | 100 | 245 | P | V |
|                                     |   | 5353.04 | 44.32  | -9.68  | 54 | 34    | 31.31 | 10.16 | 31.15 | 100 | 245 | A | V |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |       |       |       |       |     |     |   |   |



## Band 1 5150~5250MHz

## WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI                                | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT20<br>CH 36<br>5180MHz |   | 10360                | 47.34                     | -20.86                  | 68.2                              | 52.15                           | 39.58                         | 15.6                   | 59.99                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15540                | 44.81                     | -29.19                  | 74                                | 45.04                           | 38.22                         | 19.59                  | 58.04                      | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10360                | 48.1                      | -20.1                   | 68.2                              | 52.91                           | 39.58                         | 15.6                   | 59.99                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15540                | 43.64                     | -30.36                  | 74                                | 43.87                           | 38.22                         | 19.59                  | 58.04                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 44<br>5220MHz |   | 10440                | 48.17                     | -20.03                  | 68.2                              | 52.97                           | 39.7                          | 15.67                  | 60.17                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15660                | 48.29                     | -25.71                  | 74                                | 48.73                           | 37.8                          | 19.64                  | 57.88                      | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10440                | 46.92                     | -21.28                  | 68.2                              | 51.72                           | 39.7                          | 15.67                  | 60.17                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15660                | 45.47                     | -28.53                  | 74                                | 45.91                           | 37.8                          | 19.64                  | 57.88                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 48<br>5240MHz |   | 10480                | 47.09                     | -21.11                  | 68.2                              | 51.95                           | 39.7                          | 15.7                   | 60.26                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15720                | 48.86                     | -25.14                  | 74                                | 49.24                           | 37.76                         | 19.65                  | 57.79                      | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10480                | 46.22                     | -21.98                  | 68.2                              | 51.08                           | 39.7                          | 15.7                   | 60.26                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15720                | 44.95                     | -29.05                  | 74                                | 45.33                           | 37.76                         | 19.65                  | 57.79                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 1 5150~5250MHz

## WIFI 802.11n HT40 (Band Edge @ 3m)

| WIFI                                | Note | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m )                                 | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>(P/A) | Avg.<br>(H/V) |
|-------------------------------------|------|----------------------|---|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|---------------|---------------|
| 802.11n<br>HT40<br>CH 38<br>5190MHz |      | 5150                 | 63.82   | -10.18                  | 74                                | 53.08                           | 31.9                          | 9.98                   | 31.14                      | 100                  | 223                     | P             | H             |
|                                     |      | 5149.76              | 52.17   | -1.83                   | 54                                | 41.43                           | 31.9                          | 9.98                   | 31.14                      | 100                  | 223                     | A             | H             |
|                                     | *    | 5190                 | 108.17  | -                       | -                                 | 97.54                           | 31.74                         | 10.03                  | 31.14                      | 100                  | 223                     | P             | H             |
|                                     | *    | 5190                 | 97.21   | -                       | -                                 | 86.58                           | 31.74                         | 10.03                  | 31.14                      | 100                  | 223                     | A             | H             |
|                                     |      | 5437.32              | 55.49   | -18.51                  | 74                                | 44.75                           | 31.65                         | 10.24                  | 31.15                      | 100                  | 223                     | P             | H             |
|                                     |      | 5453                 | 43.48   | -10.52                  | 54                                | 32.66                           | 31.71                         | 10.26                  | 31.15                      | 100                  | 223                     | A             | H             |
|                                     |      | 5150                 | 61.69   | -12.31                  | 74                                | 50.95                           | 31.9                          | 9.98                   | 31.14                      | 100                  | 246                     | P             | V             |
|                                     |      | 5150                 | 51.3  | -2.7                    | 54                                | 40.56                           | 31.9                          | 9.98                   | 31.14                      | 100                  | 246                     | A             | V             |
|                                     | *    | 5190                 | 105.99  | -                       | -                                 | 95.36                           | 31.74                         | 10.03                  | 31.14                      | 100                  | 246                     | P             | V             |
|                                     | *    | 5190                 | 95.24   | -                       | -                                 | 84.61                           | 31.74                         | 10.03                  | 31.14                      | 100                  | 246                     | A             | V             |
| 802.11n<br>HT40<br>CH 46<br>5230MHz |      | 5386.36              | 53.79   | -20.21                  | 74                                | 43.3                            | 31.45                         | 10.19                  | 31.15                      | 100                  | 246                     | P             | V             |
|                                     |      | 5384.4               | 42.46   | -11.54                  | 54                                | 31.98                           | 31.44                         | 10.19                  | 31.15                      | 100                  | 246                     | A             | V             |
|                                     |      | 5146.12              | 65.09   | -8.91                   | 74                                | 54.34                           | 31.91                         | 9.98                   | 31.14                      | 100                  | 220                     | P             | H             |
|                                     |      | 5148.72              | 52.74   | -1.26                   | 54                                | 42                              | 31.9                          | 9.98                   | 31.14                      | 100                  | 220                     | A             | H             |
|                                     | *    | 5230                 | 118.94  | -                       | -                                 | 108.5                           | 31.52                         | 10.06                  | 31.14                      | 100                  | 220                     | P             | H             |
|                                     |      | 5352.2               | 63.19   | -10.81                  | 74                                | 52.87                           | 31.31                         | 10.16                  | 31.15                      | 100                  | 220                     | P             | H             |
|                                     |      | 5350.52              | 51.02   | -2.98                   | 54                                | 40.71                           | 31.3                          | 10.16                  | 31.15                      | 100                  | 220                     | A             | H             |
|                                     |      |                      |   |                         |                                   |                                 |                               |                        |                            |                      |                         |               | H             |
|                                     |      | 5145.86              | 60.82   | -13.18                  | 74                                | 50.07                           | 31.91                         | 9.98                   | 31.14                      | 100                  | 246                     | P             | V             |
|                                     |      | 5149.5               | 50.71   | -3.29                   | 54                                | 39.97                           | 31.9                          | 9.98                   | 31.14                      | 100                  | 246                     | A             | V             |
| Remark                              | *    | 5230                 | 115.34  | -                       | -                                 | 104.9                           | 31.52                         | 10.06                  | 31.14                      | 100                  | 246                     | P             | V             |
|                                     | *    | 5230                 | 104.54  | -                       | -                                 | 94.1                            | 31.52                         | 10.06                  | 31.14                      | 100                  | 246                     | A             | V             |
|                                     |      | 5351.36              | 58.5  | -15.5                   | 74                                | 48.18                           | 31.31                         | 10.16                  | 31.15                      | 100                  | 246                     | P             | V             |
|                                     |      | 5352.48              | 46.67   | -7.33                   | 54                                | 36.35                           | 31.31                         | 10.16                  | 31.15                      | 100                  | 246                     | A             | V             |
|                                     |      | 1.                   | No other spurious found.                                  |                         |                                   |                                 |                               |                        |                            |                      |                         |               |               |
|                                     |      | 2.                   | All results are PASS against Peak and Average limit line. |                         |                                   |                                 |                               |                        |                            |                      |                         |               |               |



## Band 1 5150~5250MHz

## WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI                                | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT40<br>CH 38<br>5190MHz |   | 10380                | 48.27                     | -19.93                  | 68.2                              | 53.05                           | 39.64                         | 15.62                  | 60.04                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15570                | 44.46                     | -29.54                  | 74                                | 44.85                           | 38.01                         | 19.6                   | 58                         | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10380                | 47.22                     | -20.98                  | 68.2                              | 52                              | 39.64                         | 15.62                  | 60.04                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15570                | 44.27                     | -29.73                  | 74                                | 44.66                           | 38.01                         | 19.6                   | 58                         | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT40<br>CH 46<br>5230MHz |   | 10460                | 46.89                     | -21.31                  | 68.2                              | 51.72                           | 39.7                          | 15.68                  | 60.21                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15690                | 46.51                     | -27.49                  | 74                                | 46.9                            | 37.8                          | 19.64                  | 57.83                      | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10460                | 46.1                      | -22.1                   | 68.2                              | 50.93                           | 39.7                          | 15.68                  | 60.21                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15690                | 46.17                     | -27.83                  | 74                                | 46.56                           | 37.8                          | 19.64                  | 57.83                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 1 5150~5250MHz

## WIFI 802.11ac VHT80 (Band Edge @ 3m)

| WIFI                                  | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>(P/A) | Avg.<br>(H/V) | Pol. |
|---------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|---------------|---------------|------|
| 802.11ac<br>VHT80<br>CH 42<br>5210MHz |   | 5148.46              | 62.28                     | -11.72                  | 74                                | 51.54                           | 31.9                          | 9.98                   | 31.14                      | 100                  | 221                     | P             | H             |      |
|                                       |   | 5150                 | 52.23                     | -1.77                   | 54                                | 41.49                           | 31.9                          | 9.98                   | 31.14                      | 100                  | 221                     | A             | H             |      |
|                                       | *   | 5210                 | 105.3                     | -                       | -                                 | 94.75                           | 31.64                         | 10.05                  | 31.14                      | 100                  | 221                     | P             | H             |      |
|                                       | *   | 5210                 | 94.95                     | -                       | -                                 | 84.4                            | 31.64                         | 10.05                  | 31.14                      | 100                  | 221                     | A             | H             |      |
|                                       |   | 5423.88              | 54.82                     | -19.18                  | 74                                | 44.14                           | 31.6                          | 10.23                  | 31.15                      | 100                  | 221                     | P             | H             |      |
|                                       |   | 5363.68              | 43.85                     | -10.15                  | 54                                | 33.48                           | 31.35                         | 10.17                  | 31.15                      | 100                  | 221                     | A             | H             |      |
|                                       |   | 5145.6               | 60.88                     | -13.12                  | 74                                | 50.14                           | 31.91                         | 9.97                   | 31.14                      | 100                  | 252                     | P             | V             |      |
|                                       |   | 5147.68              | 50.22                     | -3.78                   | 54                                | 39.48                           | 31.9                          | 9.98                   | 31.14                      | 100                  | 252                     | A             | V             |      |
|                                       | *   | 5210                 | 101.98                    | -                       | -                                 | 91.43                           | 31.64                         | 10.05                  | 31.14                      | 100                  | 252                     | P             | V             |      |
|                                       | *   | 5210                 | 91.73                     | -                       | -                                 | 81.18                           | 31.64                         | 10.05                  | 31.14                      | 100                  | 252                     | A             | V             |      |
|                                       |   | 5458.88              | 54.12                     | -19.88                  | 74                                | 43.27                           | 31.74                         | 10.26                  | 31.15                      | 100                  | 252                     | P             | V             |      |
|                                       |   | 5452.44              | 42.62                     | -11.38                  | 54                                | 31.8                            | 31.71                         | 10.26                  | 31.15                      | 100                  | 252                     | A             | V             |      |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |               |               |      |



## Band 1 5150~5250MHz

## WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI                                  | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|---------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 42<br>5210MHz |   | 10420                | 47.6                      | -20.6                   | 68.2                              | 52.37                           | 39.7                          | 15.65                  | 60.12                      | 100                  | 0                       | P                     | H             |
|                                       |   | 15630                | 45.36                     | -28.64                  | 74                                | 45.86                           | 37.8                          | 19.62                  | 57.92                      | 100                  | 0                       | P                     | H             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                       |   | 10420                | 47.11                     | -21.09                  | 68.2                              | 51.88                           | 39.7                          | 15.65                  | 60.12                      | 100                  | 0                       | P                     | V             |
|                                       |   | 15630                | 44.42                     | -29.58                  | 74                                | 44.92                           | 37.8                          | 19.62                  | 57.92                      | 100                  | 0                       | P                     | V             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 2 - 5250~5350MHz

## WIFI 802.11a (Band Edge @ 3m)

| WIFI                        | Note  | Frequency | Level  | Over   | Limit | Read   | Antenna | Path  | Preamp | Ant | Table | Peak   | Pol.   |
|-----------------------------|---|-----------|--------|--------|-------|--------|---------|-------|--------|-----|-------|--------|--------|
|                             |   |           |        |        |       |        |         |       |        |     |       | Limit  | Line   |
|                             |   |           |        |        |       |        |         |       |        |     |       | Factor | Factor |
| 802.11a<br>CH 52<br>5260MHz |   | 5119      | 56.02  | -17.98 | 74    | 45.26  | 31.96   | 9.94  | 31.14  | 100 | 219   | P      | H      |
|                             |   | 5148.58   | 44.54  | -9.46  | 54    | 33.8   | 31.9    | 9.98  | 31.14  | 100 | 219   | A      | H      |
|                             | *   | 5260      | 123.12 | -      | -     | 112.8  | 31.38   | 10.09 | 31.15  | 100 | 219   | P      | H      |
|                             | *   | 5260      | 111.82 | -      | -     | 101.5  | 31.38   | 10.09 | 31.15  | 100 | 219   | A      | H      |
|                             |   | 5358.48   | 62.43  | -11.57 | 74    | 52.08  | 31.33   | 10.17 | 31.15  | 100 | 219   | P      | H      |
|                             |   | 5351.04   | 49.1   | -4.9   | 54    | 38.79  | 31.3    | 10.16 | 31.15  | 100 | 219   | A      | H      |
|                             |   | 5074.46   | 55.04  | -18.96 | 74    | 44.39  | 31.9    | 9.89  | 31.14  | 105 | 250   | P      | V      |
|                             |   | 5140.42   | 44.38  | -9.62  | 54    | 33.63  | 31.92   | 9.97  | 31.14  | 105 | 250   | A      | V      |
|                             | *   | 5260      | 118.32 | -      | -     | 108    | 31.38   | 10.09 | 31.15  | 105 | 250   | P      | V      |
|                             | *   | 5260      | 107.82 | -      | -     | 97.5   | 31.38   | 10.09 | 31.15  | 105 | 250   | A      | V      |
|                             |   | 5357.04   | 57.37  | -16.63 | 74    | 47.02  | 31.33   | 10.17 | 31.15  | 105 | 250   | P      | V      |
|                             |   | 5350.8    | 45.79  | -8.21  | 54    | 35.48  | 31.3    | 10.16 | 31.15  | 105 | 250   | A      | V      |
| 802.11a<br>CH 60<br>5300MHz |   | 5111.52   | 55.35  | -18.65 | 74    | 44.58  | 31.98   | 9.93  | 31.14  | 100 | 219   | P      | H      |
|                             |   | 5145.18   | 44.27  | -9.73  | 54    | 33.53  | 31.91   | 9.97  | 31.14  | 100 | 219   | A      | H      |
|                             | *   | 5300      | 120.18 | -      | -     | 109.91 | 31.3    | 10.12 | 31.15  | 100 | 219   | P      | H      |
|                             | *   | 5300      | 109.18 | -      | -     | 98.91  | 31.3    | 10.12 | 31.15  | 100 | 219   | A      | H      |
|                             |   | 5352.72   | 63.91  | -10.09 | 74    | 53.59  | 31.31   | 10.16 | 31.15  | 100 | 219   | P      | H      |
|                             |   | 5356.8    | 51.92  | -2.08  | 54    | 41.57  | 31.33   | 10.17 | 31.15  | 100 | 219   | A      | H      |
|                             |   |           |        |        |       |        |         |       |        |     |       |        | V      |
|                             |   |           |        |        |       |        |         |       |        |     |       |        | V      |
|                             |   |           |        |        |       |        |         |       |        |     |       |        | V      |
|                             |   |           |        |        |       |        |         |       |        |     |       |        | V      |
|                             |   |           |        |        |       |        |         |       |        |     |       |        | V      |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |        |        |       |        |         |       |        |     |       |        |        |



## Band 2 5250~5350MHz

## WIFI 802.11a (Harmonic @ 3m)

| WIFI                        | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-----------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11a<br>CH 52<br>5260MHz |   | 10520                | 47.08                     | -21.12                  | 68.2                              | 51.96                           | 39.74                         | 15.73                  | 60.35                      | 100                  | 0                       | P                     | H             |
|                             |   | 15780                | 48.3                      | -25.7                   | 74                                | 48.69                           | 37.64                         | 19.68                  | 57.71                      | 100                  | 0                       | P                     | H             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                             |   | 10520                | 47.74                     | -20.46                  | 68.2                              | 52.62                           | 39.74                         | 15.73                  | 60.35                      | 100                  | 0                       | P                     | V             |
|                             |   | 15780                | 46.27                     | -27.73                  | 74                                | 46.66                           | 37.64                         | 19.68                  | 57.71                      | 100                  | 0                       | P                     | V             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11a<br>CH 60<br>5300MHz |   | 10600                | 47.6                      | -26.4                   | 74                                | 52.44                           | 39.9                          | 15.8                   | 60.54                      | 100                  | 0                       | P                     | H             |
|                             |   | 15900                | 44.28                     | -29.72                  | 74                                | 44.79                           | 37.3                          | 19.73                  | 57.54                      | 100                  | 0                       | P                     | H             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                             |   | 10600                | 47.15                     | -26.85                  | 74                                | 51.99                           | 39.9                          | 15.8                   | 60.54                      | 100                  | 0                       | P                     | V             |
|                             |   | 15900                | 43.4                      | -30.6                   | 74                                | 43.91                           | 37.3                          | 19.73                  | 57.54                      | 100                  | 0                       | P                     | V             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11a<br>CH 64<br>5320MHz |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                      | 1. No other spurious found.<br>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<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>(P/A) | Avg.<br>(H/V) |
|-------------------------------------|------|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|---------------|---------------|
| 802.11n<br>HT20<br>CH 52<br>5260MHz |      | 5136.34              | 55.93                     | -18.07                  | 74                                | 45.18                           | 31.93                         | 9.96                   | 31.14                      | 100                  | 220                     | P             | H             |
|                                     |      | 5146.88              | 44.55                     | -9.45                   | 54                                | 33.8                            | 31.91                         | 9.98                   | 31.14                      | 100                  | 220                     | A             | H             |
|                                     | *    | 5260                 | 124.02                    | -                       | -                                 | 113.7                           | 31.38                         | 10.09                  | 31.15                      | 100                  | 220                     | P             | H             |
|                                     | *    | 5260                 | 112.52                    | -                       | -                                 | 102.2                           | 31.38                         | 10.09                  | 31.15                      | 100                  | 220                     | A             | H             |
|                                     |      | 5354.64              | 62.52                     | -11.48                  | 74                                | 52.19                           | 31.32                         | 10.16                  | 31.15                      | 100                  | 220                     | P             | H             |
|                                     |      | 5350.08              | 47.79                     | -6.21                   | 54                                | 37.48                           | 31.3                          | 10.16                  | 31.15                      | 100                  | 220                     | A             | H             |
|                                     |      | 5114.24              | 55.14                     | -18.86                  | 74                                | 44.37                           | 31.97                         | 9.94                   | 31.14                      | 100                  | 249                     | P             | V             |
|                                     |      | 5146.54              | 44.39                     | -9.61                   | 54                                | 33.64                           | 31.91                         | 9.98                   | 31.14                      | 100                  | 249                     | A             | V             |
|                                     | *    | 5260                 | 119.92                    | -                       | -                                 | 109.6                           | 31.38                         | 10.09                  | 31.15                      | 100                  | 249                     | P             | V             |
|                                     | *    | 5260                 | 108.42                    | -                       | -                                 | 98.1                            | 31.38                         | 10.09                  | 31.15                      | 100                  | 249                     | A             | V             |
| 802.11n<br>HT20<br>CH 60<br>5300MHz |      | 5352.96              | 56.84                     | -17.16                  | 74                                | 46.52                           | 31.31                         | 10.16                  | 31.15                      | 100                  | 249                     | P             | V             |
|                                     |      | 5352                 | 44.77                     | -9.23                   | 54                                | 34.45                           | 31.31                         | 10.16                  | 31.15                      | 100                  | 249                     | A             | V             |
|                                     |      | 5127.5               | 56.26                     | -17.74                  | 74                                | 45.51                           | 31.94                         | 9.95                   | 31.14                      | 100                  | 220                     | P             | H             |
|                                     |      | 5145.86              | 44.34                     | -9.66                   | 54                                | 33.59                           | 31.91                         | 9.98                   | 31.14                      | 100                  | 220                     | A             | H             |
|                                     | *    | 5300                 | 119.77                    | -                       | -                                 | 109.5                           | 31.3                          | 10.12                  | 31.15                      | 100                  | 220                     | P             | H             |
|                                     |      | 5353.68              | 68.66                     | -5.34                   | 74                                | 58.34                           | 31.31                         | 10.16                  | 31.15                      | 100                  | 220                     | P             | H             |
|                                     |      | 5351.52              | 52.07                     | -1.93                   | 54                                | 41.75                           | 31.31                         | 10.16                  | 31.15                      | 100                  | 220                     | A             | H             |
|                                     |      |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |               | H             |
|                                     |      | 5115.26              | 55.73                     | -18.27                  | 74                                | 44.96                           | 31.97                         | 9.94                   | 31.14                      | 100                  | 250                     | P             | V             |
|                                     |      | 5142.8               | 44.17                     | -9.83                   | 54                                | 33.43                           | 31.91                         | 9.97                   | 31.14                      | 100                  | 250                     | A             | V             |
|                                     | *    | 5300                 | 115.87                    | -                       | -                                 | 105.6                           | 31.3                          | 10.12                  | 31.15                      | 100                  | 250                     | P             | V             |
|                                     | *    | 5300                 | 104.67                    | -                       | -                                 | 94.4                            | 31.3                          | 10.12                  | 31.15                      | 100                  | 250                     | A             | V             |
|                                     |      | 5350.08              | 62.82                     | -11.18                  | 74                                | 52.51                           | 31.3                          | 10.16                  | 31.15                      | 100                  | 250                     | P             | V             |
|                                     |      | 5351.52              | 47.95                     | -6.05                   | 54                                | 37.63                           | 31.31                         | 10.16                  | 31.15                      | 100                  | 250                     | A             | V             |



|                                     |   |         |        |        |    |        |       |       |       |     |     |   |   |
|-------------------------------------|---|---------|--------|--------|----|--------|-------|-------|-------|-----|-----|---|---|
| 802.11n<br>HT20<br>CH 64<br>5320MHz | *   | 5320    | 117.41 | -      | -  | 107.12 | 31.3  | 10.14 | 31.15 | 105 | 219 | P | H |
|                                     | *   | 5320    | 105.97 | -      | -  | 95.68  | 31.3  | 10.14 | 31.15 | 105 | 219 | A | H |
|                                     |   | 5350.56 | 67.63  | -6.37  | 74 | 57.32  | 31.3  | 10.16 | 31.15 | 105 | 219 | P | H |
|                                     |   | 5350.08 | 52.24  | -1.76  | 54 | 41.93  | 31.3  | 10.16 | 31.15 | 105 | 219 | A | H |
|                                     |   |         |        |        |    |        |       |       |       |     |     |   | H |
|                                     |   |         |        |        |    |        |       |       |       |     |     |   | H |
|                                     | *   | 5320    | 112.2  | -      | -  | 101.91 | 31.3  | 10.14 | 31.15 | 100 | 251 | P | V |
|                                     | *   | 5320    | 101.17 | -      | -  | 90.88  | 31.3  | 10.14 | 31.15 | 100 | 251 | A | V |
|                                     |   | 5354.4  | 62.72  | -11.28 | 74 | 52.39  | 31.32 | 10.16 | 31.15 | 100 | 251 | P | V |
|                                     |   | 5350.08 | 48.3   | -5.7   | 54 | 37.99  | 31.3  | 10.16 | 31.15 | 100 | 251 | A | V |
|                                     |   |         |        |        |    |        |       |       |       |     |     |   | V |
|                                     |   |         |        |        |    |        |       |       |       |     |     |   | V |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |        |       |       |       |     |     |   |   |



## Band 2 5250~5350MHz

## WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI                                | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT20<br>CH 52<br>5260MHz |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 60<br>5300MHz |   | 10600                | 47.8                      | -26.2                   | 74                                | 52.64                           | 39.9                          | 15.8                   | 60.54                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15900                | 44.97                     | -29.03                  | 74                                | 45.48                           | 37.3                          | 19.73                  | 57.54                      | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10600                | 47.9                      | -26.1                   | 74                                | 52.74                           | 39.9                          | 15.8                   | 60.54                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15900                | 44.61                     | -29.39                  | 74                                | 45.12                           | 37.3                          | 19.73                  | 57.54                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 64<br>5320MHz |   | 10640                | 47.33                     | -26.67                  | 74                                | 52.29                           | 39.86                         | 15.82                  | 60.64                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15960                | 48.95                     | -25.05                  | 74                                | 49.31                           | 37.36                         | 19.74                  | 57.46                      | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10640                | 47.23                     | -26.77                  | 74                                | 52.19                           | 39.86                         | 15.82                  | 60.64                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15960                | 45.53                     | -28.47                  | 74                                | 45.89                           | 37.36                         | 19.74                  | 57.46                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.<br>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<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>(P/A) | Avg.<br>(H/V) |
|-------------------------------------|------|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|---------------|---------------|
| 802.11n<br>HT40<br>CH 54<br>5270MHz |      | 5092.48              | 55.51                     | -18.49                  | 74                                | 44.77                           | 31.97                         | 9.91                   | 31.14                      | 100                  | 219                     | P             | H             |
|                                     |      | 5146.54              | 45.48                     | -8.52                   | 54                                | 34.73                           | 31.91                         | 9.98                   | 31.14                      | 100                  | 219                     | A             | H             |
|                                     | *    | 5270                 | 116.31                    | -                       | -                                 | 106                             | 31.36                         | 10.1                   | 31.15                      | 100                  | 219                     | P             | H             |
|                                     | *    | 5270                 | 105.71                    | -                       | -                                 | 95.4                            | 31.36                         | 10.1                   | 31.15                      | 100                  | 219                     | A             | H             |
|                                     |      | 5353.92              | 67.09                     | -6.91                   | 74                                | 56.76                           | 31.32                         | 10.16                  | 31.15                      | 100                  | 219                     | P             | H             |
|                                     |      | 5352                 | 52.73                     | -1.27                   | 54                                | 42.41                           | 31.31                         | 10.16                  | 31.15                      | 100                  | 219                     | P             | H             |
|                                     |      | 5047.26              | 55.53                     | -18.47                  | 74                                | 45.03                           | 31.78                         | 9.86                   | 31.14                      | 100                  | 249                     | P             | V             |
|                                     |      | 5147.9               | 44.97                     | -9.03                   | 54                                | 34.23                           | 31.9                          | 9.98                   | 31.14                      | 100                  | 249                     | A             | V             |
|                                     | *    | 5270                 | 112.31                    | -                       | -                                 | 102                             | 31.36                         | 10.1                   | 31.15                      | 100                  | 249                     | P             | V             |
|                                     | *    | 5270                 | 101.51                    | -                       | -                                 | 91.2                            | 31.36                         | 10.1                   | 31.15                      | 100                  | 249                     | A             | V             |
| 802.11n<br>HT40<br>CH 62<br>5310MHz |      | 5354.16              | 61.27                     | -12.73                  | 74                                | 50.94                           | 31.32                         | 10.16                  | 31.15                      | 100                  | 249                     | P             | V             |
|                                     |      | 5351.52              | 48.55                     | -5.45                   | 54                                | 38.23                           | 31.31                         | 10.16                  | 31.15                      | 100                  | 249                     | A             | V             |
|                                     |      | 5104.72              | 53.82                     | -20.18                  | 74                                | 43.04                           | 31.99                         | 9.93                   | 31.14                      | 100                  | 220                     | P             | H             |
|                                     |      | 5149.6               | 42.5                      | -11.5                   | 54                                | 31.76                           | 31.9                          | 9.98                   | 31.14                      | 100                  | 220                     | A             | H             |
|                                     | *    | 5310                 | 110.18                    | -                       | -                                 | 99.9                            | 31.3                          | 10.13                  | 31.15                      | 100                  | 220                     | P             | H             |
|                                     | *    | 5310                 | 99.36                     | -                       | -                                 | 89.08                           | 31.3                          | 10.13                  | 31.15                      | 100                  | 220                     | A             | H             |
|                                     |      | 5358                 | 66.53                     | -7.47                   | 74                                | 56.18                           | 31.33                         | 10.17                  | 31.15                      | 100                  | 220                     | P             | H             |
|                                     |      | 5350.56              | 51.54                     | -2.46                   | 54                                | 41.23                           | 31.3                          | 10.16                  | 31.15                      | 100                  | 220                     | A             | H             |
|                                     |      | 5135.66              | 53.49                     | -20.51                  | 74                                | 42.74                           | 31.93                         | 9.96                   | 31.14                      | 100                  | 250                     | P             | V             |
|                                     |      | 5147.22              | 42.24                     | -11.76                  | 54                                | 31.49                           | 31.91                         | 9.98                   | 31.14                      | 100                  | 250                     | A             | V             |
| Remark                              | *    | 5310                 | 105.63                    | -                       | -                                 | 95.35                           | 31.3                          | 10.13                  | 31.15                      | 100                  | 250                     | P             | V             |
|                                     | *    | 5310                 | 94.64                     | -                       | -                                 | 84.36                           | 31.3                          | 10.13                  | 31.15                      | 100                  | 250                     | A             | V             |
|                                     |      | 5357.04              | 61.82                     | -12.18                  | 74                                | 51.47                           | 31.33                         | 10.17                  | 31.15                      | 100                  | 250                     | P             | V             |
|                                     |      | 5350.8               | 47.23                     | -6.77                   | 54                                | 36.92                           | 31.3                          | 10.16                  | 31.15                      | 100                  | 250                     | A             | V             |



## Band 2 5250~5350MHz

## WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI                                | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT40<br>CH 54<br>5270MHz |   | 10540                | 48.18                     | -20.02                  | 68.2                              | 53.05                           | 39.78                         | 15.75                  | 60.4                       | 100                  | 0                       | P                     | H             |
|                                     |   | 15810                | 47.36                     | -26.64                  | 74                                | 47.77                           | 37.57                         | 19.69                  | 57.67                      | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10540                | 48.18                     | -20.02                  | 68.2                              | 53.05                           | 39.78                         | 15.75                  | 60.4                       | 100                  | 0                       | P                     | V             |
|                                     |   | 15810                | 45.63                     | -28.37                  | 74                                | 46.04                           | 37.57                         | 19.69                  | 57.67                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT40<br>CH 62<br>5310MHz |   | 10620                | 47.07                     | -26.93                  | 74                                | 51.98                           | 39.88                         | 15.8                   | 60.59                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15930                | 45.88                     | -28.12                  | 74                                | 46.31                           | 37.33                         | 19.74                  | 57.5                       | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10620                | 46.41                     | -27.59                  | 74                                | 51.32                           | 39.88                         | 15.8                   | 60.59                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15930                | 45.25                     | -28.75                  | 74                                | 45.68                           | 37.33                         | 19.74                  | 57.5                       | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.<br>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<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>(P/A) | Avg.<br>(H/V) |
|---------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|---------------|---------------|
| 802.11ac<br>VHT80<br>CH 58<br>5290MHz |   | 5117.64              | 53.54                     | -20.46                  | 74                                | 42.78                           | 31.96                         | 9.94                   | 31.14                      | 100                  | 223                     | P             | H             |
|                                       |   | 5131.92              | 42.55                     | -11.45                  | 54                                | 31.79                           | 31.94                         | 9.96                   | 31.14                      | 100                  | 223                     | A             | H             |
|                                       | *   | 5290                 | 104.99                    | -                       | -                                 | 94.71                           | 31.32                         | 10.11                  | 31.15                      | 100                  | 223                     | P             | H             |
|                                       | *   | 5290                 | 94.43                     | -                       | -                                 | 84.15                           | 31.32                         | 10.11                  | 31.15                      | 100                  | 223                     | A             | H             |
|                                       |   | 5357.04              | 62.94                     | -11.06                  | 74                                | 52.59                           | 31.33                         | 10.17                  | 31.15                      | 100                  | 223                     | P             | H             |
|                                       |   | 5350.32              | 51.56                     | -2.44                   | 54                                | 41.25                           | 31.3                          | 10.16                  | 31.15                      | 100                  | 223                     | A             | H             |
|                                       |   | 5139.06              | 53.87                     | -20.13                  | 74                                | 43.12                           | 31.92                         | 9.97                   | 31.14                      | 100                  | 244                     | P             | V             |
|                                       |   | 5143.14              | 42.18                     | -11.82                  | 54                                | 31.44                           | 31.91                         | 9.97                   | 31.14                      | 100                  | 244                     | A             | V             |
|                                       | *   | 5290                 | 100.98                    | -                       | -                                 | 90.7                            | 31.32                         | 10.11                  | 31.15                      | 100                  | 244                     | P             | V             |
|                                       | *   | 5290                 | 90.13                     | -                       | -                                 | 79.85                           | 31.32                         | 10.11                  | 31.15                      | 100                  | 244                     | A             | V             |
|                                       |   | 5356.8               | 57.75                     | -16.25                  | 74                                | 47.4                            | 31.33                         | 10.17                  | 31.15                      | 100                  | 244                     | P             | V             |
|                                       |   | 5350.32              | 46.6                      | -7.4                    | 54                                | 36.29                           | 31.3                          | 10.16                  | 31.15                      | 100                  | 244                     | A             | V             |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |               |               |



## Band 2 5250~5350MHz

## WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI                                  | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|---------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 58<br>5290MHz |   | 10580                | 47.47                     | -20.73                  | 68.2                              | 52.32                           | 39.86                         | 15.78                  | 60.49                      | 100                  | 0                       | P                     | H             |
|                                       |   | 15870                | 45.79                     | -28.21                  | 74                                | 46.27                           | 37.39                         | 19.71                  | 57.58                      | 100                  | 0                       | P                     | H             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                       |   | 10580                | 47.33                     | -20.87                  | 68.2                              | 52.18                           | 39.86                         | 15.78                  | 60.49                      | 100                  | 0                       | P                     | V             |
|                                       |   | 15870                | 44.58                     | -29.42                  | 74                                | 45.06                           | 37.39                         | 19.71                  | 57.58                      | 100                  | 0                       | P                     | V             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                                | 1. No other spurious found.<br>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 | Path  | Preamp | Ant | Table | Peak    | Pol.    |
|------------------------------|------|-----------|--------|--------|-------|--------|---------|-------|--------|-----|-------|---------|---------|
|                              |      |           |        |        |       |        |         |       |        |     |       | Avg.    |         |
|                              |      |           |        |        |       |        |         |       |        |     |       | ( P/A ) | ( H/V ) |
| 802.11a<br>CH 100<br>5500MHz |      | 5459.98   | 59.67  | -14.33 | 74    | 48.81  | 31.74   | 10.27 | 31.15  | 103 | 217   | P       | H       |
|                              |      | 5469.2    | 62.92  | -5.28  | 68.2  | 52.01  | 31.78   | 10.28 | 31.15  | 103 | 217   | P       | H       |
|                              |      | 5460      | 48.51  | -5.49  | 54    | 37.65  | 31.74   | 10.27 | 31.15  | 103 | 217   | A       | H       |
|                              | *    | 5500      | 118.14 | -      | -     | 107.08 | 31.9    | 10.31 | 31.15  | 103 | 217   | P       | H       |
|                              | *    | 5500      | 107    | -      | -     | 95.94  | 31.9    | 10.31 | 31.15  | 103 | 217   | A       | H       |
|                              |      |           |        |        |       |        |         |       |        |     |       |         | H       |
|                              |      | 5458.16   | 56.35  | -17.65 | 74    | 45.51  | 31.73   | 10.26 | 31.15  | 106 | 236   | P       | V       |
|                              |      | 5469.68   | 59.48  | -8.72  | 68.2  | 48.57  | 31.78   | 10.28 | 31.15  | 106 | 236   | P       | V       |
|                              |      | 5458.8    | 45.44  | -8.56  | 54    | 34.59  | 31.74   | 10.26 | 31.15  | 106 | 236   | A       | V       |
|                              | *    | 5500      | 113.18 | -      | -     | 102.12 | 31.9    | 10.31 | 31.15  | 106 | 236   | P       | V       |
| 802.11a<br>CH 116<br>5580MHz | *    | 5500      | 102.63 | -      | -     | 91.57  | 31.9    | 10.31 | 31.15  | 106 | 236   | A       | V       |
|                              |      |           |        |        |       |        |         |       |        |     |       |         | V       |
|                              |      | 5450.8    | 57.69  | -16.31 | 74    | 46.88  | 31.7    | 10.26 | 31.15  | 100 | 218   | P       | H       |
|                              |      | 5469.28   | 58.02  | -10.18 | 68.2  | 47.11  | 31.78   | 10.28 | 31.15  | 100 | 218   | P       | H       |
|                              |      | 5452.72   | 46.31  | -7.69  | 54    | 35.49  | 31.71   | 10.26 | 31.15  | 100 | 218   | A       | H       |
|                              | *    | 5580      | 123.15 | -      | -     | 112.15 | 31.8    | 10.4  | 31.2   | 100 | 218   | P       | H       |
|                              | *    | 5580      | 113.2  | -      | -     | 102.2  | 31.8    | 10.4  | 31.2   | 100 | 218   | A       | H       |
|                              |      | 5730.035  | 59.33  | -8.87  | 68.2  | 48.01  | 32.06   | 10.52 | 31.26  | 100 | 218   | P       | H       |
|                              |      | 5448.16   | 56.73  | -17.27 | 74    | 45.94  | 31.69   | 10.25 | 31.15  | 100 | 236   | P       | V       |
|                              |      | 5468.32   | 56.57  | -11.63 | 68.2  | 45.67  | 31.77   | 10.28 | 31.15  | 100 | 236   | P       | V       |
|                              |      | 5452.72   | 44.77  | -9.23  | 54    | 33.95  | 31.71   | 10.26 | 31.15  | 100 | 236   | A       | V       |
|                              | *    | 5580      | 118.89 | -      | -     | 107.89 | 31.8    | 10.4  | 31.2   | 100 | 236   | P       | V       |
|                              | *    | 5580      | 107.87 | -      | -     | 96.87  | 31.8    | 10.4  | 31.2   | 100 | 236   | A       | V       |
|                              |      | 5747.99   | 60.15  | -8.05  | 68.2  | 48.78  | 32.1    | 10.54 | 31.27  | 100 | 236   | P       | V       |



|                                       |   |         |        |       |      |        |       |       |       |     |     |   |   |
|---------------------------------------|---|---------|--------|-------|------|--------|-------|-------|-------|-----|-----|---|---|
| <b>802.11a<br/>CH 140<br/>5700MHz</b> | *   | 5700    | 117.08 | -     | -    | 105.83 | 32    | 10.5  | 31.25 | 100 | 144 | P | H |
|                                       | *   | 5700    | 105.98 | -     | -    | 94.73  | 32    | 10.5  | 31.25 | 100 | 144 | A | H |
|                                       |   | 5725    | 65.42  | -2.78 | 68.2 | 54.11  | 32.05 | 10.52 | 31.26 | 100 | 144 | P | H |
|                                       |   |         |        |       |      |        |       |       |       |     |     |   | H |
|                                       |   |         |        |       |      |        |       |       |       |     |     |   | H |
|                                       |   |         |        |       |      |        |       |       |       |     |     |   | H |
|                                       | *   | 5700    | 110.37 | -     | -    | 99.12  | 32    | 10.5  | 31.25 | 113 | 235 | P | V |
|                                       | *   | 5700    | 100.03 | -     | -    | 88.78  | 32    | 10.5  | 31.25 | 113 | 235 | A | V |
|                                       |   | 5725.08 | 60.28  | -7.92 | 68.2 | 48.97  | 32.05 | 10.52 | 31.26 | 113 | 235 | P | V |
|                                       |   |         |        |       |      |        |       |       |       |     |     |   | V |
|                                       |   |         |        |       |      |        |       |       |       |     |     |   | V |
|                                       |   |         |        |       |      |        |       |       |       |     |     |   | V |
| <b>Remark</b>                         | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |       |      |        |       |       |       |     |     |   |   |



## Band 3 - 5470~5725MHz

## WIFI 802.11a (Harmonic @ 3m)

| WIFI                         | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11a<br>CH 100<br>5500MHz |   | 11000                | 48.5                      | -25.5                   | 74                                | 53.7                            | 40.2                          | 16.1                   | 61.5                       | 100                  | 0                       | P                     | H             |
|                              |   | 16500                | 50.92                     | -17.28                  | 68.2                              | 48.64                           | 39.4                          | 20.18                  | 57.3                       | 100                  | 0                       | P                     | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   | 11000                | 48.23                     | -25.77                  | 74                                | 53.43                           | 40.2                          | 16.1                   | 61.5                       | 100                  | 0                       | P                     | V             |
|                              |   | 16500                | 45.93                     | -22.27                  | 68.2                              | 43.65                           | 39.4                          | 20.18                  | 57.3                       | 100                  | 0                       | P                     | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11a<br>CH 116<br>5580MHz |   | 11160                | 46.16                     | -27.84                  | 74                                | 51.84                           | 39.62                         | 16.23                  | 61.53                      | 100                  | 0                       | P                     | H             |
|                              |   | 16740                | 48.17                     | -20.03                  | 68.2                              | 44.22                           | 40.4                          | 20.37                  | 56.82                      | 100                  | 0                       | P                     | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   | 11160                | 45.82                     | -28.18                  | 74                                | 51.5                            | 39.62                         | 16.23                  | 61.53                      | 100                  | 0                       | P                     | V             |
|                              |   | 16740                | 47.18                     | -21.02                  | 68.2                              | 43.23                           | 40.4                          | 20.37                  | 56.82                      | 100                  | 0                       | P                     | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11a<br>CH 140<br>5700MHz |   | 11400                | 47.94                     | -26.06                  | 74                                | 53.5                            | 39.6                          | 16.42                  | 61.58                      | 100                  | 0                       | P                     | H             |
|                              |   | 17100                | 49.59                     | -18.61                  | 68.2                              | 44.5                            | 40.5                          | 20.67                  | 56.08                      | 100                  | 0                       | P                     | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   | 11400                | 46.93                     | -27.07                  | 74                                | 52.49                           | 39.6                          | 16.42                  | 61.58                      | 100                  | 0                       | P                     | V             |
|                              |   | 17100                | 48.14                     | -20.06                  | 68.2                              | 43.05                           | 40.5                          | 20.67                  | 56.08                      | 100                  | 0                       | P                     | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                       | 3. No other spurious found.<br>4. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 3 - 5470~5725MHz

## WIFI 802.11n HT20 (Band Edge @ 3m)

| WIFI                                 | Note | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>(P/A) | Avg.<br>(H/V) |
|--------------------------------------|------|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|---------------|---------------|
| 802.11n<br>HT20<br>CH 100<br>5500MHz |      | 5459.76              | 66.59                     | -7.41                   | 74                                | 55.73                           | 31.74                         | 10.27                  | 31.15                      | 105                  | 218                     | P             | H             |
|                                      |      | 5465.68              | 67.09                     | -1.11                   | 68.2                              | 56.21                           | 31.76                         | 10.27                  | 31.15                      | 105                  | 218                     | P             | H             |
|                                      |      | 5460                 | 48.74                     | -5.26                   | 54                                | 37.88                           | 31.74                         | 10.27                  | 31.15                      | 105                  | 218                     | A             | H             |
|                                      | *    | 5500                 | 117.23                    | -                       | -                                 | 106.17                          | 31.9                          | 10.31                  | 31.15                      | 105                  | 218                     | P             | H             |
|                                      | *    | 5500                 | 105.66                    | -                       | -                                 | 94.6                            | 31.9                          | 10.31                  | 31.15                      | 105                  | 218                     | A             | H             |
|                                      |      |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |               | H             |
|                                      |      | 5459.76              | 61.84                     | -12.16                  | 74                                | 50.98                           | 31.74                         | 10.27                  | 31.15                      | 107                  | 236                     | P             | V             |
|                                      |      | 5468.72              | 63.27                     | -4.93                   | 68.2                              | 52.37                           | 31.77                         | 10.28                  | 31.15                      | 107                  | 236                     | P             | V             |
|                                      |      | 5458.96              | 45.41                     | -8.59                   | 54                                | 34.56                           | 31.74                         | 10.26                  | 31.15                      | 107                  | 236                     | A             | V             |
|                                      | *    | 5500                 | 112.49                    | -                       | -                                 | 101.43                          | 31.9                          | 10.31                  | 31.15                      | 107                  | 236                     | P             | V             |
|                                      | *    | 5500                 | 100.98                    | -                       | -                                 | 89.92                           | 31.9                          | 10.31                  | 31.15                      | 107                  | 236                     | A             | V             |
|                                      |      |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |               | V             |
| 802.11n<br>HT20<br>CH 116<br>5580MHz |      | 5458.24              | 57.78                     | -16.22                  | 74                                | 49.22                           | 31.73                         | 10.26                  | 33.43                      | 100                  | 216                     | P             | H             |
|                                      |      | 5469.52              | 59.73                     | -8.47                   | 68.2                              | 51.1                            | 31.78                         | 10.28                  | 33.43                      | 100                  | 216                     | P             | H             |
|                                      |      | 5452.96              | 42.94                     | -11.06                  | 54                                | 34.4                            | 31.71                         | 10.26                  | 33.43                      | 100                  | 216                     | A             | H             |
|                                      | *    | 5580                 | 123.62                    | -                       | -                                 | 114.86                          | 31.8                          | 10.4                   | 33.44                      | 100                  | 216                     | P             | H             |
|                                      | *    | 5580                 | 112.68                    | -                       | -                                 | 103.92                          | 31.8                          | 10.4                   | 33.44                      | 100                  | 216                     | A             | H             |
|                                      |      | 5747.045             | 58.27                     | -9.93                   | 68.2                              | 49.1                            | 32.09                         | 10.54                  | 33.46                      | 100                  | 216                     | P             | H             |
|                                      |      | 5403.76              | 53.36                     | -20.64                  | 74                                | 45.08                           | 31.52                         | 10.2                   | 33.44                      | 100                  | 236                     | P             | V             |
|                                      |      | 5465.44              | 53.07                     | -15.13                  | 68.2                              | 44.47                           | 31.76                         | 10.27                  | 33.43                      | 100                  | 236                     | P             | V             |
|                                      |      | 5452.96              | 42.26                     | -11.74                  | 54                                | 33.72                           | 31.71                         | 10.26                  | 33.43                      | 100                  | 236                     | A             | V             |
|                                      | *    | 5580                 | 119.35                    | -                       | -                                 | 110.59                          | 31.8                          | 10.4                   | 33.44                      | 100                  | 236                     | P             | V             |
|                                      | *    | 5580                 | 107.7                     | -                       | -                                 | 98.94                           | 31.8                          | 10.4                   | 33.44                      | 100                  | 236                     | A             | V             |
|                                      |      | 5761.535             | 54.03                     | -14.17                  | 68.2                              | 44.83                           | 32.12                         | 10.55                  | 33.47                      | 100                  | 236                     | P             | V             |



|                                      |   |        |        |       |      |       |       |       |       |     |     |   |   |
|--------------------------------------|---|--------|--------|-------|------|-------|-------|-------|-------|-----|-----|---|---|
| 802.11n<br>HT20<br>CH 140<br>5700MHz | *   | 5700   | 116.15 | -     | -    | 104.9 | 32    | 10.5  | 31.25 | 100 | 215 | P | H |
|                                      | *   | 5700   | 104.94 | -     | -    | 93.69 | 32    | 10.5  | 31.25 | 100 | 215 | A | H |
|                                      |   | 5738.6 | 66.98  | -1.22 | 68.2 | 55.64 | 32.08 | 10.53 | 31.27 | 100 | 215 | P | H |
|                                      |   |        |        |       |      |       |       |       |       |     |     |   | H |
|                                      |   |        |        |       |      |       |       |       |       |     |     |   | H |
|                                      |   |        |        |       |      |       |       |       |       |     |     |   | H |
|                                      | *   | 5700   | 109.68 | -     | -    | 98.43 | 32    | 10.5  | 31.25 | 105 | 238 | P | V |
|                                      | *   | 5700   | 98.22  | -     | -    | 86.97 | 32    | 10.5  | 31.25 | 105 | 238 | A | V |
|                                      |   | 5730.6 | 60.1   | -8.1  | 68.2 | 48.79 | 32.06 | 10.52 | 31.27 | 105 | 238 | P | V |
|                                      |   |        |        |       |      |       |       |       |       |     |     |   | V |
|                                      |   |        |        |       |      |       |       |       |       |     |     |   | V |
|                                      |   |        |        |       |      |       |       |       |       |     |     |   | V |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |        |        |       |      |       |       |       |       |     |     |   |   |



## Band 3 - 5470~5725MHz

## WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI                                 | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT20<br>CH 100<br>5500MHz |   | 11000                | 47.66                     | -26.34                  | 74                                | 52.86                           | 40.2                          | 16.1                   | 61.5                       | 100                  | 0                       | P                     | H             |
|                                      |   | 16500                | 48.47                     | -19.73                  | 68.2                              | 46.19                           | 39.4                          | 20.18                  | 57.3                       | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11000                | 46.93                     | -27.07                  | 74                                | 52.13                           | 40.2                          | 16.1                   | 61.5                       | 100                  | 0                       | P                     | V             |
|                                      |   | 16500                | 45.13                     | -23.07                  | 68.2                              | 42.85                           | 39.4                          | 20.18                  | 57.3                       | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 116<br>5580MHz |   | 11160                | 45.95                     | -28.05                  | 74                                | 51.63                           | 39.62                         | 16.23                  | 61.53                      | 100                  | 0                       | P                     | H             |
|                                      |   | 16740                | 54.55                     | -13.65                  | 68.2                              | 50.6                            | 40.4                          | 20.37                  | 56.82                      | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11160                | 45.75                     | -28.25                  | 74                                | 51.43                           | 39.62                         | 16.23                  | 61.53                      | 100                  | 0                       | P                     | V             |
|                                      |   | 16740                | 52.85                     | -15.35                  | 68.2                              | 48.9                            | 40.4                          | 20.37                  | 56.82                      | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 140<br>5700MHz |   | 11400                | 46.74                     | -27.26                  | 74                                | 52.3                            | 39.6                          | 16.42                  | 61.58                      | 100                  | 0                       | P                     | H             |
|                                      |   | 17100                | 47.74                     | -20.46                  | 68.2                              | 42.65                           | 40.5                          | 20.67                  | 56.08                      | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11400                | 46.49                     | -27.51                  | 74                                | 52.05                           | 39.6                          | 16.42                  | 61.58                      | 100                  | 0                       | P                     | V             |
|                                      |   | 17100                | 47.37                     | -20.83                  | 68.2                              | 42.28                           | 40.5                          | 20.67                  | 56.08                      | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                               | 1. No other spurious found.<br>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<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>(P/A) | Avg.<br>(H/V) |
|--------------------------------------|------|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|---------------|---------------|
| 802.11n<br>HT40<br>CH 102<br>5510MHz |      | 5455.12              | 65.78                     | -8.22                   | 74                                | 57.23                           | 31.72                         | 10.26                  | 33.43                      | 100                  | 216                     | P             | H             |
|                                      |      | 5464.24              | 66.93                     | -1.27                   | 68.2                              | 58.33                           | 31.76                         | 10.27                  | 33.43                      | 100                  | 216                     | P             | H             |
|                                      |      | 5458.96              | 50.26                     | -3.74                   | 54                                | 41.69                           | 31.74                         | 10.26                  | 33.43                      | 100                  | 216                     | A             | H             |
|                                      | *    | 5510                 | 114.29                    | -                       | -                                 | 105.52                          | 31.88                         | 10.32                  | 33.43                      | 100                  | 216                     | P             | H             |
|                                      | *    | 5510                 | 103.66                    | -                       | -                                 | 94.89                           | 31.88                         | 10.32                  | 33.43                      | 100                  | 216                     | A             | H             |
|                                      |      | 5753.345             | 56.13                     | -12.07                  | 68.2                              | 46.95                           | 32.11                         | 10.54                  | 33.47                      | 100                  | 216                     | P             | H             |
|                                      |      | 5455.12              | 62.33                     | -11.67                  | 74                                | 53.78                           | 31.72                         | 10.26                  | 33.43                      | 101                  | 236                     | P             | V             |
|                                      |      | 5463.04              | 63.08                     | -5.12                   | 68.2                              | 54.49                           | 31.75                         | 10.27                  | 33.43                      | 101                  | 236                     | P             | V             |
|                                      |      | 5458.48              | 47.17                     | -6.83                   | 54                                | 38.61                           | 31.73                         | 10.26                  | 33.43                      | 101                  | 236                     | A             | V             |
|                                      | *    | 5510                 | 109.17                    | -                       | -                                 | 100.4                           | 31.88                         | 10.32                  | 33.43                      | 101                  | 236                     | P             | V             |
|                                      | *    | 5510                 | 99.13                     | -                       | -                                 | 90.36                           | 31.88                         | 10.32                  | 33.43                      | 101                  | 236                     | A             | V             |
|                                      |      | 5746.415             | 56.41                     | -11.79                  | 68.2                              | 47.24                           | 32.09                         | 10.54                  | 33.46                      | 101                  | 236                     | P             | V             |
| 802.11n<br>HT40<br>CH 110<br>5550MHz |      | 5458.72              | 62.54                     | -11.46                  | 74                                | 53.98                           | 31.73                         | 10.26                  | 33.43                      | 100                  | 216                     | P             | H             |
|                                      |      | 5465.92              | 64.4                      | -3.8                    | 68.2                              | 55.8                            | 31.76                         | 10.27                  | 33.43                      | 100                  | 216                     | P             | H             |
|                                      |      | 5459.92              | 52.26                     | -1.74                   | 54                                | 43.68                           | 31.74                         | 10.27                  | 33.43                      | 100                  | 216                     | A             | H             |
|                                      | *    | 5550                 | 119.64                    | -                       | -                                 | 110.92                          | 31.8                          | 10.36                  | 33.44                      | 100                  | 216                     | P             | H             |
|                                      | *    | 5550                 | 109.11                    | -                       | -                                 | 100.39                          | 31.8                          | 10.36                  | 33.44                      | 100                  | 216                     | A             | H             |
|                                      |      | 5742.32              | 55.91                     | -12.29                  | 68.2                              | 46.76                           | 32.08                         | 10.53                  | 33.46                      | 100                  | 216                     | P             | H             |
|                                      |      | 5451.04              | 59.52                     | -14.48                  | 74                                | 50.99                           | 31.7                          | 10.26                  | 33.43                      | 100                  | 235                     | P             | V             |
|                                      |      | 5469.76              | 61.62                     | -6.58                   | 68.2                              | 52.99                           | 31.78                         | 10.28                  | 33.43                      | 100                  | 235                     | P             | V             |
|                                      |      | 5457.52              | 49.04                     | -4.96                   | 54                                | 40.48                           | 31.73                         | 10.26                  | 33.43                      | 100                  | 235                     | A             | V             |
|                                      | *    | 5550                 | 115.06                    | -                       | -                                 | 106.34                          | 31.8                          | 10.36                  | 33.44                      | 100                  | 235                     | P             | V             |
|                                      | *    | 5550                 | 104.22                    | -                       | -                                 | 95.5                            | 31.8                          | 10.36                  | 33.44                      | 100                  | 235                     | A             | V             |
|                                      |      | 5747.045             | 55.05                     | -13.15                  | 68.2                              | 45.88                           | 32.09                         | 10.54                  | 33.46                      | 100                  | 235                     | P             | V             |



|                                      |   |          |        |        |      |        |       |       |       |     |     |   |   |
|--------------------------------------|---|----------|--------|--------|------|--------|-------|-------|-------|-----|-----|---|---|
| 802.11n<br>HT40<br>CH 134<br>5670MHz |   | 5434     | 54.75  | -19.25 | 74   | 46.31  | 31.64 | 10.24 | 33.44 | 104 | 212 | P | H |
|                                      |   | 5469.7   | 53.15  | -15.05 | 68.2 | 44.52  | 31.78 | 10.28 | 33.43 | 104 | 212 | P | H |
|                                      |   | 5452.9   | 43.13  | -10.87 | 54   | 34.59  | 31.71 | 10.26 | 33.43 | 104 | 212 | A | H |
|                                      | *   | 5670     | 114.57 | -      | -    | 105.72 | 31.82 | 10.48 | 33.45 | 104 | 212 | P | H |
|                                      | *   | 5670     | 103.62 | -      | -    | 94.77  | 31.82 | 10.48 | 33.45 | 104 | 212 | A | H |
|                                      |   | 5730.175 | 67.07  | -1.13  | 68.2 | 57.95  | 32.06 | 10.52 | 33.46 | 104 | 212 | P | H |
|                                      |   | 5414.4   | 53     | -21    | 74   | 44.66  | 31.56 | 10.22 | 33.44 | 107 | 233 | P | V |
|                                      |   | 5460.95  | 52.37  | -15.83 | 68.2 | 43.79  | 31.74 | 10.27 | 33.43 | 107 | 233 | P | V |
|                                      |   | 5453.25  | 42.66  | -11.34 | 54   | 34.12  | 31.71 | 10.26 | 33.43 | 107 | 233 | A | V |
|                                      | *   | 5670     | 108.86 | -      | -    | 100.01 | 31.82 | 10.48 | 33.45 | 107 | 233 | P | V |
|                                      | *   | 5670     | 97.83  | -      | -    | 88.98  | 31.82 | 10.48 | 33.45 | 107 | 233 | A | V |
|                                      |   | 5729.825 | 59.65  | -8.55  | 68.2 | 50.53  | 32.06 | 10.52 | 33.46 | 107 | 233 | P | V |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |          |        |        |      |        |       |       |       |     |     |   |   |



## Band 3 - 5470~5725MHz

## WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI                                 | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT40<br>CH 102<br>5510MHz |   | 11020                | 47.97                     | -26.03                  | 74                                | 53.23                           | 40.12                         | 16.12                  | 61.5                       | 100                  | 0                       | P                     | H             |
|                                      |   | 16530                | 44.99                     | -23.21                  | 68.2                              | 42.63                           | 39.4                          | 20.2                   | 57.24                      | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11020                | 47.78                     | -26.22                  | 74                                | 53.04                           | 40.12                         | 16.12                  | 61.5                       | 100                  | 0                       | P                     | V             |
|                                      |   | 16530                | 44.86                     | -23.34                  | 68.2                              | 42.5                            | 39.4                          | 20.2                   | 57.24                      | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT40<br>CH 110<br>5550MHz |   | 11100                | 46.35                     | -27.65                  | 74                                | 51.89                           | 39.8                          | 16.18                  | 61.52                      | 100                  | 0                       | P                     | H             |
|                                      |   | 16650                | 53.8                      | -14.4                   | 68.2                              | 50.7                            | 39.8                          | 20.3                   | 57                         | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11100                | 46.38                     | -27.62                  | 74                                | 51.92                           | 39.8                          | 16.18                  | 61.52                      | 100                  | 0                       | P                     | V             |
|                                      |   | 16650                | 50.25                     | -17.95                  | 68.2                              | 47.15                           | 39.8                          | 20.3                   | 57                         | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT40<br>CH 134<br>5670MHz |   | 11340                | 46.41                     | -27.59                  | 74                                | 52.06                           | 39.54                         | 16.38                  | 61.57                      | 100                  | 0                       | P                     | H             |
|                                      |   | 17010                | 46.73                     | -21.47                  | 68.2                              | 41.92                           | 40.5                          | 20.59                  | 56.28                      | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11340                | 46.16                     | -27.84                  | 74                                | 51.81                           | 39.54                         | 16.38                  | 61.57                      | 100                  | 0                       | P                     | V             |
|                                      |   | 17010                | 46.82                     | -21.38                  | 68.2                              | 42.01                           | 40.5                          | 20.59                  | 56.28                      | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                               | 1. No other spurious found.<br>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<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>(P/A) | Avg.<br>(H/V) |
|--|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|---------------|---------------|
| 802.11ac<br>VHT80<br>CH 106<br>5530MHz |   | 5452                 | 62.35                     | -11.65                  | 74                                | 53.81                           | 31.71                         | 10.26                  | 33.43                      | 100                  | 218                     | P             | H             |
|  |   | 5469.04              | 63.86                     | -4.34                   | 68.2                              | 55.23                           | 31.78                         | 10.28                  | 33.43                      | 100                  | 218                     | P             | H             |
|  |   | 5459.68              | 51.81                     | -2.19                   | 54                                | 43.23                           | 31.74                         | 10.27                  | 33.43                      | 100                  | 218                     | A             | H             |
|  | *   | 5530                 | 110.58                    | -                       | -                                 | 101.83                          | 31.84                         | 10.34                  | 33.43                      | 100                  | 218                     | P             | H             |
|  | *   | 5530                 | 100.29                    | -                       | -                                 | 91.54                           | 31.84                         | 10.34                  | 33.43                      | 100                  | 218                     | A             | H             |
|  |   | 5744.84              | 55.86                     | -12.34                  | 68.2                              | 46.69                           | 32.09                         | 10.54                  | 33.46                      | 100                  | 218                     | P             | H             |
|  |   | 5452.48              | 58.97                     | -15.03                  | 74                                | 50.43                           | 31.71                         | 10.26                  | 33.43                      | 106                  | 237                     | P             | V             |
|  |   | 5469.52              | 60.26                     | -7.94                   | 68.2                              | 51.63                           | 31.78                         | 10.28                  | 33.43                      | 106                  | 237                     | P             | V             |
|  |   | 5459.68              | 47.9                      | -6.1                    | 54                                | 39.32                           | 31.74                         | 10.27                  | 33.43                      | 106                  | 237                     | A             | V             |
|  | *   | 5530                 | 105.28                    | -                       | -                                 | 96.53                           | 31.84                         | 10.34                  | 33.43                      | 106                  | 237                     | P             | V             |
|  | *   | 5530                 | 95.3                      | -                       | -                                 | 86.55                           | 31.84                         | 10.34                  | 33.43                      | 106                  | 237                     | A             | V             |
|  |   | 5751.77              | 53.74                     | -14.46                  | 68.2                              | 44.57                           | 32.1                          | 10.54                  | 33.47                      | 106                  | 237                     | P             | V             |
| 802.11ac<br>VHT80<br>CH 122<br>5610MHz |   | 5457.52              | 60.78                     | -13.22                  | 74                                | 52.22                           | 31.73                         | 10.26                  | 33.43                      | 100                  | 218                     | P             | H             |
|  |   | 5465.92              | 62.06                     | -6.14                   | 68.2                              | 53.46                           | 31.76                         | 10.27                  | 33.43                      | 100                  | 218                     | P             | H             |
|  |   | 5458                 | 50.24                     | -3.76                   | 54                                | 41.68                           | 31.73                         | 10.26                  | 33.43                      | 100                  | 218                     | A             | H             |
|  | *   | 5610                 | 114.86                    | -                       | -                                 | 106.1                           | 31.78                         | 10.43                  | 33.45                      | 100                  | 218                     | P             | H             |
|  | *   | 5610                 | 104.12                    | -                       | -                                 | 95.36                           | 31.78                         | 10.43                  | 33.45                      | 100                  | 218                     | A             | H             |
|  |   | 5726.885             | 66.93                     | -1.27                   | 68.2                              | 57.82                           | 32.05                         | 10.52                  | 33.46                      | 100                  | 218                     | P             | H             |
|  |   | 5458.96              | 56.95                     | -17.05                  | 74                                | 48.38                           | 31.74                         | 10.26                  | 33.43                      | 110                  | 235                     | P             | V             |
|  |   | 5466.16              | 59.33                     | -8.87                   | 68.2                              | 50.73                           | 31.76                         | 10.27                  | 33.43                      | 110                  | 235                     | P             | V             |
|  |   | 5456.8               | 46.71                     | -7.29                   | 54                                | 38.15                           | 31.73                         | 10.26                  | 33.43                      | 110                  | 235                     | A             | V             |
|  | *   | 5610                 | 109.4                     | -                       | -                                 | 100.64                          | 31.78                         | 10.43                  | 33.45                      | 110                  | 235                     | P             | V             |
|  | *   | 5610                 | 98.73                     | -                       | -                                 | 89.97                           | 31.78                         | 10.43                  | 33.45                      | 110                  | 235                     | A             | V             |
|  |   | 5731.61              | 60.15                     | -8.05                   | 68.2                              | 51.02                           | 32.06                         | 10.53                  | 33.46                      | 110                  | 235                     | P             | V             |
| Remark                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |               |               |



## Band 3 5470~5725MHz

## WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI                                   | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 106<br>5530MHz |   | 11060                | 47.36                     | -26.64                  | 74                                | 52.76                           | 39.96                         | 16.15                  | 61.51                      | 100                  | 0                       | P                     | H             |
|  |   | 16590                | 45.09                     | -23.11                  | 68.2                              | 42.56                           | 39.4                          | 20.25                  | 57.12                      | 100                  | 0                       | P                     | H             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|  |   | 11060                | 46.27                     | -27.73                  | 74                                | 51.67                           | 39.96                         | 16.15                  | 61.51                      | 100                  | 0                       | P                     | V             |
|  |   | 16590                | 45                        | -23.2                   | 68.2                              | 42.47                           | 39.4                          | 20.25                  | 57.12                      | 100                  | 0                       | P                     | V             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11ac<br>VHT80<br>CH 122<br>5610MHz |   | 11220                | 44.45                     | -29.55                  | 74                                | 50.21                           | 39.5                          | 16.28                  | 61.54                      | 100                  | 0                       | P                     | H             |
|  |   | 16830                | 45.04                     | -23.16                  | 68.2                              | 40.71                           | 40.52                         | 20.45                  | 56.64                      | 100                  | 0                       | P                     | H             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|  |   | 11220                | 44.63                     | -29.37                  | 74                                | 50.39                           | 39.5                          | 16.28                  | 61.54                      | 100                  | 0                       | P                     | V             |
|  |   | 16830                | 45.69                     | -22.51                  | 68.2                              | 41.36                           | 40.52                         | 20.45                  | 56.64                      | 100                  | 0                       | P                     | V             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 3 - Straddle Channel

## WIFI 802.11a (Band Edge @ 3m)

| WIFI                         | Note  | Frequency | Level  | Over   | Limit | Read   | Antenna | Path  | Preamp | Ant | Table | Peak   | Pol.   |
|------------------------------|---|-----------|--------|--------|-------|--------|---------|-------|--------|-----|-------|--------|--------|
|                              |   |           |        |        |       |        |         |       |        |     |       | Limit  | Line   |
|                              |   |           |        |        |       |        |         |       |        |     |       | Factor | Factor |
| 802.11a<br>CH 144<br>5720MHz |   | 5436.58   | 55.41  | -18.59 | 74    | 44.67  | 31.65   | 10.24 | 31.15  | 100 | 143   | P      | H      |
|                              |   | 5464.27   | 56.5   | -11.7  | 68.2  | 45.62  | 31.76   | 10.27 | 31.15  | 100 | 143   | P      | H      |
|                              |   | 5458.81   | 44.37  | -9.63  | 54    | 33.52  | 31.74   | 10.26 | 31.15  | 100 | 143   | A      | H      |
|                              | *   | 5720      | 122.82 | -      | -     | 111.52 | 32.04   | 10.52 | 31.26  | 100 | 143   | P      | H      |
|                              | *   | 5720      | 112.42 | -      | -     | 101.12 | 32.04   | 10.52 | 31.26  | 100 | 143   | A      | H      |
|                              |   | 5861.75   | 61.16  | -7.04  | 68.2  | 49.54  | 32.32   | 10.63 | 31.33  | 100 | 143   | P      | H      |
|                              |   | 5361.7    | 55.29  | -18.71 | 74    | 44.92  | 31.35   | 10.17 | 31.15  | 103 | 237   | P      | V      |
|                              |   | 5468.95   | 55.62  | -12.58 | 68.2  | 44.71  | 31.78   | 10.28 | 31.15  | 103 | 237   | P      | V      |
|                              |   | 5448.67   | 44.51  | -9.49  | 54    | 33.72  | 31.69   | 10.25 | 31.15  | 103 | 237   | A      | V      |
|                              | *   | 5720      | 117.26 | -      | -     | 105.96 | 32.04   | 10.52 | 31.26  | 103 | 237   | P      | V      |
|                              | *   | 5720      | 106.29 | -      | -     | 94.99  | 32.04   | 10.52 | 31.26  | 103 | 237   | A      | V      |
|                              |   | 5865.25   | 57.25  | -10.95 | 68.2  | 45.62  | 32.33   | 10.63 | 31.33  | 103 | 237   | P      | V      |
| Remark                       | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |        |        |       |        |         |       |        |     |       |        |        |



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

| WIFI                         | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11a<br>CH 144<br>5720MHz |   | 11440                | 45.94                     | -28.06                  | 74                                | 51.4                            | 39.68                         | 16.45                  | 61.59                      | 100                  | 0                       | P                     | H             |
|                              |   | 17160                | 50.26                     | -17.94                  | 68.2                              | 44.94                           | 40.56                         | 20.71                  | 55.95                      | 100                  | 0                       | P                     | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   | 11440                | 46.06                     | -27.94                  | 74                                | 51.52                           | 39.68                         | 16.45                  | 61.59                      | 100                  | 0                       | P                     | V             |
|                              |   | 17160                | 47.96                     | -20.24                  | 68.2                              | 42.64                           | 40.56                         | 20.71                  | 55.95                      | 100                  | 0                       | P                     | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                       | 1. No other spurious found.<br>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<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>(P/A) | Avg.<br>(H/V) |
|--------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|---------------|---------------|
| 802.11n<br>HT20<br>CH 144<br>5720MHz |   | 5452.57              | 53.59                     | -20.41                  | 74                                | 45.05                           | 31.71                         | 10.26                  | 33.43                      | 100                  | 213                     | P             | H             |
|                                      |   | 5462.71              | 53.21                     | -14.99                  | 68.2                              | 44.62                           | 31.75                         | 10.27                  | 33.43                      | 100                  | 213                     | P             | H             |
|                                      |   | 5419.81              | 42.37                     | -11.63                  | 54                                | 34.01                           | 31.58                         | 10.22                  | 33.44                      | 100                  | 213                     | A             | H             |
|                                      | *   | 5720                 | 121.73                    | -                       | -                                 | 112.63                          | 32.04                         | 10.52                  | 33.46                      | 100                  | 213                     | P             | H             |
|                                      | *   | 5720                 | 111.42                    | -                       | -                                 | 102.32                          | 32.04                         | 10.52                  | 33.46                      | 100                  | 213                     | A             | H             |
|                                      |   | 5947.25              | 55.15                     | -13.05                  | 68.2                              | 45.36                           | 32.59                         | 10.69                  | 33.49                      | 100                  | 213                     | P             | H             |
|                                      |   | 5458.03              | 52.91                     | -21.09                  | 74                                | 44.35                           | 31.73                         | 10.26                  | 33.43                      | 100                  | 230                     | P             | V             |
|                                      |   | 5469.34              | 51.36                     | -16.84                  | 68.2                              | 42.73                           | 31.78                         | 10.28                  | 33.43                      | 100                  | 230                     | P             | V             |
|                                      |   | 5450.62              | 42.06                     | -11.94                  | 54                                | 33.53                           | 31.7                          | 10.26                  | 33.43                      | 100                  | 230                     | A             | V             |
|                                      | *   | 5720                 | 116.13                    | -                       | -                                 | 107.03                          | 32.04                         | 10.52                  | 33.46                      | 100                  | 230                     | P             | V             |
|                                      | *   | 5720                 | 104.52                    | -                       | -                                 | 95.42                           | 32.04                         | 10.52                  | 33.46                      | 100                  | 230                     | A             | V             |
|                                      |   | 5902                 | 54.65                     | -13.55                  | 68.2                              | 45.07                           | 32.41                         | 10.66                  | 33.49                      | 100                  | 230                     | P             | V             |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |               |               |



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

| WIFI                                 | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT20<br>CH 144<br>5720MHz |   | 11440                | 45.84                     | -28.16                  | 74                                | 51.3                            | 39.68                         | 16.45                  | 61.59                      | 100                  | 0                       | P                     | H             |
|                                      |   | 17160                | 56.72                     | -11.48                  | 68.2                              | 51.4                            | 40.56                         | 20.71                  | 55.95                      | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11440                | 45.34                     | -28.66                  | 74                                | 50.8                            | 39.68                         | 16.45                  | 61.59                      | 100                  | 0                       | P                     | V             |
|                                      |   | 17160                | 48.73                     | -19.47                  | 68.2                              | 43.41                           | 40.56                         | 20.71                  | 55.95                      | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 3 - Straddle Channel

## WIFI 802.11n HT40 (Band Edge @ 3m)

| WIFI                                 | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A)(H/V) | Pol. |
|--------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|----------------------------|------|
| 802.11n<br>HT40<br>CH 142<br>5710MHz |   | 5400.31              | 54.23                     | -19.77                  | 74                                | 45.97                           | 31.5                          | 10.2                   | 33.44                      | 100                  | 212                     | P                          | H    |
|                                      |   | 5465.44              | 53.58                     | -14.62                  | 68.2                              | 44.98                           | 31.76                         | 10.27                  | 33.43                      | 100                  | 212                     | P                          | H    |
|                                      |   | 5456.47              | 43.09                     | -10.91                  | 54                                | 34.53                           | 31.73                         | 10.26                  | 33.43                      | 100                  | 212                     | A                          | H    |
|                                      | *   | 5710                 | 120                       | -                       | -                                 | 110.93                          | 32.02                         | 10.51                  | 33.46                      | 100                  | 212                     | P                          | H    |
|                                      | *   | 5710                 | 109.56                    | -                       | -                                 | 100.49                          | 32.02                         | 10.51                  | 33.46                      | 100                  | 212                     | A                          | H    |
|                                      |   | 5856.25              | 58.29                     | -9.91                   | 68.2                              | 48.84                           | 32.31                         | 10.62                  | 33.48                      | 100                  | 212                     | P                          | H    |
|                                      |   | 5422.93              | 52.92                     | -21.08                  | 74                                | 44.54                           | 31.59                         | 10.23                  | 33.44                      | 106                  | 141                     | P                          | V    |
|                                      |   | 5468.95              | 52.58                     | -15.62                  | 68.2                              | 43.95                           | 31.78                         | 10.28                  | 33.43                      | 106                  | 141                     | P                          | V    |
|                                      |   | 5433.07              | 42.36                     | -11.64                  | 54                                | 33.93                           | 31.63                         | 10.24                  | 33.44                      | 106                  | 141                     | A                          | V    |
|                                      | *   | 5710                 | 112.02                    | -                       | -                                 | 102.95                          | 32.02                         | 10.51                  | 33.46                      | 106                  | 141                     | P                          | V    |
|                                      | *   | 5710                 | 101.15                    | -                       | -                                 | 92.08                           | 32.02                         | 10.51                  | 33.46                      | 106                  | 141                     | A                          | V    |
|                                      |   | 5921                 | 54.42                     | -13.78                  | 68.2                              | 44.76                           | 32.48                         | 10.67                  | 33.49                      | 106                  | 141                     | P                          | V    |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            |      |



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

| WIFI                                 | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT40<br>CH 142<br>5710MHz |   | 11420                | 47.24                     | -26.76                  | 74                                | 52.75                           | 39.64                         | 16.43                  | 61.58                      | 100                  | 0                       | P                     | H             |
|                                      |   | 17130                | 52.05                     | -16.15                  | 68.2                              | 46.83                           | 40.53                         | 20.7                   | 56.01                      | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11420                | 46.52                     | -27.48                  | 74                                | 52.03                           | 39.64                         | 16.43                  | 61.58                      | 100                  | 0                       | P                     | V             |
|                                      |   | 17130                | 48.06                     | -20.14                  | 68.2                              | 42.84                           | 40.53                         | 20.7                   | 56.01                      | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 3 - Straddle Channel

## WIFI 802.11ac VHT80 (Band Edge @ 3m)

| WIFI                                   | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>(P/A) | Avg.<br>(H/V) |
|--|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|---------------|---------------|
| 802.11ac<br>VHT80<br>CH 138<br>5690MHz |   | 5456.86              | 58.09                     | -15.91                  | 74                                | 49.53                           | 31.73                         | 10.26                  | 33.43                      | 100                  | 214                     | P             | H             |
|  |   | 5466.22              | 57.83                     | -10.37                  | 68.2                              | 49.23                           | 31.76                         | 10.27                  | 33.43                      | 100                  | 214                     | P             | H             |
|  |   | 5457.25              | 45.97                     | -8.03                   | 54                                | 37.41                           | 31.73                         | 10.26                  | 33.43                      | 100                  | 214                     | A             | H             |
|  | *   | 5690                 | 116.53                    | -                       | -                                 | 107.56                          | 31.94                         | 10.49                  | 33.46                      | 100                  | 214                     | P             | H             |
|  | *   | 5690                 | 105.65                    | -                       | -                                 | 96.68                           | 31.94                         | 10.49                  | 33.46                      | 100                  | 214                     | A             | H             |
|  |   | 5852.25              | 64.74                     | -3.46                   | 68.2                              | 55.3                            | 32.3                          | 10.62                  | 33.48                      | 100                  | 214                     | P             | H             |
|  |   | 5458.42              | 54.24                     | -19.76                  | 74                                | 45.68                           | 31.73                         | 10.26                  | 33.43                      | 100                  | 237                     | P             | V             |
|  |   | 5462.71              | 54.64                     | -13.56                  | 68.2                              | 46.05                           | 31.75                         | 10.27                  | 33.43                      | 100                  | 237                     | P             | V             |
|  |   | 5452.96              | 43.96                     | -10.04                  | 54                                | 35.42                           | 31.71                         | 10.26                  | 33.43                      | 100                  | 237                     | A             | V             |
|  | *   | 5690                 | 110.42                    | -                       | -                                 | 101.45                          | 31.94                         | 10.49                  | 33.46                      | 100                  | 237                     | P             | V             |
|  | *   | 5690                 | 99.89                     | -                       | -                                 | 90.92                           | 31.94                         | 10.49                  | 33.46                      | 100                  | 237                     | A             | V             |
|  |   | 5852                 | 57.45                     | -10.75                  | 68.2                              | 48.01                           | 32.3                          | 10.62                  | 33.48                      | 100                  | 237                     | P             | V             |
| Remark                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |               |               |



## Band 3 - Straddle Channel

WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI                                   | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 138<br>5690MHz |   | 11380                | 46.84                     | -27.16                  | 74                                | 52.43                           | 39.58                         | 16.41                  | 61.58                      | 100                  | 0                       | P                     | H             |
|  |   | 17070                | 48.32                     | -19.88                  | 68.2                              | 43.33                           | 40.5                          | 20.64                  | 56.15                      | 100                  | 0                       | P                     | H             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|  |   | 11380                | 46.3                      | -27.7                   | 74                                | 51.89                           | 39.58                         | 16.41                  | 61.58                      | 100                  | 0                       | P                     | V             |
|  |   | 17070                | 47.93                     | -20.27                  | 68.2                              | 42.94                           | 40.5                          | 20.64                  | 56.15                      | 100                  | 0                       | P                     | V             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Emission below 1GHz

## WIFI 802.11n HT20 (LF @ 3m)

| WIFI                  | Note   | Frequency | Level | Over   | Limit | Read  | Antenna | Path | Preamp | Ant | Table | Peak   | Pol. |        |
|-----------------------|--|-----------|-------|--------|-------|-------|---------|------|--------|-----|-------|--------|------|--------|
|                       |  |           |       |        |       |       |         |      |        |     |       | Limit  | Line |        |
|                       |  |           |       |        |       |       |         |      |        |     |       | Factor | Loss | Factor |
| 802.11n<br>HT20<br>LF |  | 186.17    | 30.71 | -12.79 | 43.5  | 44.32 | 14.77   | 1.96 | 30.34  | -   | -     | P      | H    |        |
|                       |  | 194.9     | 31.33 | -12.17 | 43.5  | 44.85 | 14.83   | 1.98 | 30.33  | -   | -     | P      | H    |        |
|                       |  | 229.82    | 31.71 | -14.29 | 46    | 43.84 | 16.08   | 2.06 | 30.27  | -   | -     | P      | H    |        |
|                       |  | 717.73    | 34.96 | -11.04 | 46    | 33.84 | 26.85   | 3.75 | 29.48  | -   | -     | P      | H    |        |
|                       |  | 886.51    | 34.24 | -11.76 | 46    | 30.21 | 28.97   | 4.22 | 29.16  | -   | -     | P      | H    |        |
|                       |  | 942.77    | 35.69 | -10.31 | 46    | 30.01 | 30.29   | 4.41 | 29.02  | 100 | 0     | P      | H    |        |
|                       |  |           |       |        |       |       |         |      |        |     |       |        | H    |        |
|                       |  |           |       |        |       |       |         |      |        |     |       |        | H    |        |
|                       |  |           |       |        |       |       |         |      |        |     |       |        | H    |        |
|                       |  |           |       |        |       |       |         |      |        |     |       |        | H    |        |
|                       |  |           |       |        |       |       |         |      |        |     |       |        | H    |        |
|                       |  |           |       |        |       |       |         |      |        |     |       |        | V    |        |
|                       |  | 60.07     | 31.44 | -8.56  | 40    | 48.98 | 11.78   | 1.14 | 30.46  | 100 | 0     | P      | V    |        |
|                       |  | 186.17    | 33.4  | -10.1  | 43.5  | 47.01 | 14.77   | 1.96 | 30.34  | -   | -     | P      | V    |        |
|                       |  | 194.9     | 34.33 | -9.17  | 43.5  | 47.85 | 14.83   | 1.98 | 30.33  | -   | -     | P      | V    |        |
|                       |  | 712.88    | 31.64 | -14.36 | 46    | 30.77 | 26.62   | 3.74 | 29.49  | -   | -     | P      | V    |        |
|                       |  | 885.54    | 34.98 | -11.02 | 46    | 30.95 | 28.97   | 4.22 | 29.16  | -   | -     | P      | V    |        |
|                       |  | 949.56    | 35.4  | -10.6  | 46    | 29.4  | 30.56   | 4.44 | 29     | -   | -     | P      | V    |        |
|                       |  |           |       |        |       |       |         |      |        |     |       |        | V    |        |
|                       |  |           |       |        |       |       |         |      |        |     |       |        | V    |        |
|                       |  |           |       |        |       |       |         |      |        |     |       |        | V    |        |
|                       |  |           |       |        |       |       |         |      |        |     |       |        | V    |        |
|                       |  |           |       |        |       |       |         |      |        |     |       |        | V    |        |
| Remark                | 1. No other spurious found.<br>2. All results are PASS against limit line. |           |       |        |       |       |         |      |        |     |       |        |      |        |



## MIMO &lt;Chain 1+2&gt;

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

| WIFI                        | Note | Frequency | Level            | Over Limit | Limit Line       | Read Level     | Antenna Factor | Path Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg.  | Pol. |
|-----------------------------|------|-----------|------------------|------------|------------------|----------------|----------------|-----------|---------------|---------|-----------|------------|------|
|                             |      | ( MHz )   | ( dB $\mu$ V/m ) | ( dB )     | ( dB $\mu$ V/m ) | ( dB $\mu$ V ) | ( dB/m )       | ( dB )    | ( dB )        | ( cm )  | ( deg )   | (P/A)(H/V) |      |
| 802.11a<br>CH 36<br>5180MHz |      | 5149.24   | 70.3             | -3.7       | 74               | 59.56          | 31.9           | 9.98      | 31.14         | 100     | 222       | P          | H    |
|                             |      | 5149.5    | 52.19            | -1.81      | 54               | 41.45          | 31.9           | 9.98      | 31.14         | 100     | 222       | A          | H    |
|                             | *    | 5180      | 119.69           | -          | -                | 109.03         | 31.78          | 10.02     | 31.14         | 100     | 222       | P          | H    |
|                             | *    | 5180      | 109.14           | -          | -                | 98.48          | 31.78          | 10.02     | 31.14         | 100     | 222       | A          | H    |
|                             |      |           |                  |            |                  |                |                |           |               |         |           |            | H    |
|                             |      |           |                  |            |                  |                |                |           |               |         |           |            | H    |
|                             |      | 5148.98   | 65.13            | -8.87      | 74               | 54.39          | 31.9           | 9.98      | 31.14         | 100     | 130       | P          | V    |
|                             |      | 5148.98   | 45.92            | -8.08      | 54               | 35.18          | 31.9           | 9.98      | 31.14         | 100     | 130       | A          | V    |
|                             | *    | 5180      | 112.62           | -          | -                | 101.96         | 31.78          | 10.02     | 31.14         | 100     | 130       | P          | V    |
|                             | *    | 5180      | 102.24           | -          | -                | 91.58          | 31.78          | 10.02     | 31.14         | 100     | 130       | A          | V    |
|                             |      |           |                  |            |                  |                |                |           |               |         |           |            | V    |
|                             |      |           |                  |            |                  |                |                |           |               |         |           |            | V    |
| 802.11a<br>CH 44<br>5220MHz |      | 5146.64   | 58.08            | -15.92     | 74               | 47.33          | 31.91          | 9.98      | 31.14         | 100     | 152       | P          | H    |
|                             |      | 5149.76   | 45.39            | -8.61      | 54               | 34.65          | 31.9           | 9.98      | 31.14         | 100     | 152       | A          | H    |
|                             | *    | 5220      | 122.19           | -          | -                | 111.69         | 31.58          | 10.06     | 31.14         | 100     | 152       | P          | H    |
|                             | *    | 5220      | 111.34           | -          | -                | 100.84         | 31.58          | 10.06     | 31.14         | 100     | 152       | A          | H    |
|                             |      | 5453      | 55.34            | -18.66     | 74               | 44.52          | 31.71          | 10.26     | 31.15         | 100     | 152       | P          | H    |
|                             |      | 5453      | 45.9             | -8.1       | 54               | 35.08          | 31.71          | 10.26     | 31.15         | 100     | 152       | A          | H    |
|                             |      | 5149.76   | 54.83            | -19.17     | 74               | 44.09          | 31.9           | 9.98      | 31.14         | 100     | 132       | P          | V    |
|                             |      | 5148.72   | 42.36            | -11.64     | 54               | 31.62          | 31.9           | 9.98      | 31.14         | 100     | 132       | A          | V    |
|                             | *    | 5220      | 115.25           | -          | -                | 104.75         | 31.58          | 10.06     | 31.14         | 100     | 132       | P          | V    |
|                             | *    | 5220      | 104.53           | -          | -                | 94.03          | 31.58          | 10.06     | 31.14         | 100     | 132       | A          | V    |
|                             |      | 5374.04   | 53.27            | -20.73     | 74               | 42.84          | 31.4           | 10.18     | 31.15         | 100     | 132       | P          | V    |
|                             |      | 5453.28   | 41.93            | -12.07     | 54               | 31.11          | 31.71          | 10.26     | 31.15         | 100     | 132       | A          | V    |



|                                      |   |         |        |        |    |        |       |       |       |     |     |   |   |
|--------------------------------------|---|---------|--------|--------|----|--------|-------|-------|-------|-----|-----|---|---|
| <b>802.11a<br/>CH 48<br/>5240MHz</b> |   | 5140.14 | 53.8   | -20.2  | 74 | 43.05  | 31.92 | 9.97  | 31.14 | 122 | 149 | P | H |
|                                      |   | 5145.6  | 43.07  | -10.93 | 54 | 32.33  | 31.91 | 9.97  | 31.14 | 122 | 149 | A | H |
|                                      | *   | 5240    | 121.81 | -      | -  | 111.42 | 31.46 | 10.07 | 31.14 | 122 | 149 | P | H |
|                                      | *   | 5240    | 111.15 | -      | -  | 100.76 | 31.46 | 10.07 | 31.14 | 122 | 149 | A | H |
|                                      |   | 5358.08 | 55.14  | -18.86 | 74 | 44.79  | 31.33 | 10.17 | 31.15 | 122 | 149 | P | H |
|                                      |   | 5453    | 45.69  | -8.31  | 54 | 34.87  | 31.71 | 10.26 | 31.15 | 122 | 149 | A | H |
|                                      |   | 5149.76 | 53.58  | -20.42 | 74 | 42.84  | 31.9  | 9.98  | 31.14 | 100 | 132 | P | V |
|                                      |   | 5148.2  | 41.68  | -12.32 | 54 | 30.94  | 31.9  | 9.98  | 31.14 | 100 | 132 | A | V |
|                                      | *   | 5240    | 114.98 | -      | -  | 104.59 | 31.46 | 10.07 | 31.14 | 100 | 132 | P | V |
|                                      | *   | 5240    | 104.36 | -      | -  | 93.97  | 31.46 | 10.07 | 31.14 | 100 | 132 | A | V |
|                                      |   | 5391.12 | 53.12  | -20.88 | 74 | 42.62  | 31.46 | 10.19 | 31.15 | 100 | 132 | P | V |
|                                      |   | 5453.28 | 41.61  | -12.39 | 54 | 30.79  | 31.71 | 10.26 | 31.15 | 100 | 132 | A | V |
| <b>Remark</b>                        | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |        |       |       |       |     |     |   |   |



**Band 1 5150~5250MHz**  
**WIFI 802.11a (Harmonic @ 3m)**

| WIFI                                | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11a<br><br>CH 36<br><br>5180MHz |   | 10360                | 46.54                     | -21.66                  | 68.2                              | 51.35                           | 39.58                         | 15.6                   | 59.99                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15540                | 61.49                     | -12.51                  | 74                                | 61.72                           | 38.22                         | 19.59                  | 58.04                      | 207                  | 155                     | P                     | H             |
|                                     |   | 15540                | 44.69                     | -9.31                   | 54                                | 44.92                           | 38.22                         | 19.59                  | 58.04                      | 207                  | 155                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10360                | 46.9                      | -21.3                   | 68.2                              | 51.71                           | 39.58                         | 15.6                   | 59.99                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15540                | 55.53                     | -18.47                  | 74                                | 55.76                           | 38.22                         | 19.59                  | 58.04                      | 205                  | 230                     | P                     | V             |
|                                     |   | 15540                | 38.99                     | -15.01                  | 54                                | 39.22                           | 38.22                         | 19.59                  | 58.04                      | 205                  | 230                     | A                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11a<br><br>CH 44<br><br>5220MHz |   | 10440                | 48.38                     | -19.82                  | 68.2                              | 53.18                           | 39.7                          | 15.67                  | 60.17                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15660                | 61.95                     | -12.05                  | 74                                | 62.39                           | 37.8                          | 19.64                  | 57.88                      | 209                  | 155                     | P                     | H             |
|                                     |   | 15660                | 47.82                     | -6.18                   | 54                                | 48.26                           | 37.8                          | 19.64                  | 57.88                      | 209                  | 155                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10440                | 47                        | -21.2                   | 68.2                              | 51.8                            | 39.7                          | 15.67                  | 60.17                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15660                | 54.43                     | -19.57                  | 74                                | 54.87                           | 37.8                          | 19.64                  | 57.88                      | 100                  | 222                     | P                     | V             |
|                                     |   | 15660                | 40.45                     | -13.55                  | 54                                | 40.89                           | 37.8                          | 19.64                  | 57.88                      | 100                  | 222                     | A                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11a<br><br>CH 48<br><br>5240MHz |   | 10480                | 48.06                     | -20.14                  | 68.2                              | 52.92                           | 39.7                          | 15.7                   | 60.26                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15720                | 59.68                     | -14.32                  | 74                                | 60.06                           | 37.76                         | 19.65                  | 57.79                      | 205                  | 157                     | P                     | H             |
|                                     |   | 15720                | 46.18                     | -7.82                   | 54                                | 46.56                           | 37.76                         | 19.65                  | 57.79                      | 205                  | 157                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10480                | 46.71                     | -21.49                  | 68.2                              | 51.57                           | 39.7                          | 15.7                   | 60.26                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15720                | 51.68                     | -22.32                  | 74                                | 52.06                           | 37.76                         | 19.65                  | 57.79                      | 209                  | 230                     | P                     | V             |
|                                     |   | 15720                | 39.16                     | -14.84                  | 54                                | 39.54                           | 37.76                         | 19.65                  | 57.79                      | 209                  | 230                     | A                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 1 5150~5250MHz

## WIFI 802.11n HT20 (Band Edge @ 3m)

| WIFI                                | Note | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A)(H/V) | Pol. |
|-------------------------------------|------|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|----------------------------|------|
| 802.11n<br>HT20<br>CH 36<br>5180MHz |      | 5148.72              | 69.66                     | -4.34                   | 74                                | 58.92                           | 31.9                          | 9.98                   | 31.14                      | 100                  | 221                     | P                          | H    |
|                                     |      | 5150                 | 52.17                     | -1.83                   | 54                                | 41.43                           | 31.9                          | 9.98                   | 31.14                      | 100                  | 221                     | A                          | H    |
|                                     | *    | 5180                 | 119.56                    | -                       | -                                 | 108.9                           | 31.78                         | 10.02                  | 31.14                      | 100                  | 221                     | P                          | H    |
|                                     | *    | 5180                 | 108.8                     | -                       | -                                 | 98.14                           | 31.78                         | 10.02                  | 31.14                      | 100                  | 221                     | A                          | H    |
|                                     |      |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            | H    |
|                                     |      |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            | H    |
|                                     |      | 5149.24              | 63.68                     | -10.32                  | 74                                | 52.94                           | 31.9                          | 9.98                   | 31.14                      | 100                  | 130                     | P                          | V    |
|                                     |      | 5150                 | 45.69                     | -8.31                   | 54                                | 34.95                           | 31.9                          | 9.98                   | 31.14                      | 100                  | 130                     | A                          | V    |
|                                     | *    | 5180                 | 112.5                     | -                       | -                                 | 101.84                          | 31.78                         | 10.02                  | 31.14                      | 100                  | 130                     | P                          | V    |
|                                     | *    | 5180                 | 101.92                    | -                       | -                                 | 91.26                           | 31.78                         | 10.02                  | 31.14                      | 100                  | 130                     | A                          | V    |
|                                     |      |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            | V    |
|                                     |      |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            | V    |
| 802.11n<br>HT20<br>CH 44<br>5220MHz |      | 5148.46              | 59.59                     | -14.41                  | 74                                | 48.85                           | 31.9                          | 9.98                   | 31.14                      | 100                  | 154                     | P                          | H    |
|                                     |      | 5145.6               | 44.84                     | -9.16                   | 54                                | 34.1                            | 31.91                         | 9.97                   | 31.14                      | 100                  | 154                     | A                          | H    |
|                                     | *    | 5220                 | 121.91                    | -                       | -                                 | 111.41                          | 31.58                         | 10.06                  | 31.14                      | 100                  | 154                     | P                          | H    |
|                                     | *    | 5220                 | 111.27                    | -                       | -                                 | 100.77                          | 31.58                         | 10.06                  | 31.14                      | 100                  | 154                     | A                          | H    |
|                                     |      | 5452.72              | 54.9                      | -19.1                   | 74                                | 44.08                           | 31.71                         | 10.26                  | 31.15                      | 100                  | 154                     | P                          | H    |
|                                     |      | 5453                 | 45.69                     | -8.31                   | 54                                | 34.87                           | 31.71                         | 10.26                  | 31.15                      | 100                  | 154                     | A                          | H    |
|                                     |      | 5120.38              | 53.97                     | -20.03                  | 74                                | 43.21                           | 31.96                         | 9.94                   | 31.14                      | 110                  | 131                     | P                          | V    |
|                                     |      | 5150.02              | 42.28                     | -107.72                 | 150                               | 31.54                           | 31.9                          | 9.98                   | 31.14                      | 110                  | 131                     | A                          | V    |
|                                     | *    | 5220                 | 115.28                    | -                       | -                                 | 104.78                          | 31.58                         | 10.06                  | 31.14                      | 110                  | 131                     | P                          | V    |
|                                     | *    | 5220                 | 104.56                    | -                       | -                                 | 94.06                           | 31.58                         | 10.06                  | 31.14                      | 110                  | 131                     | A                          | V    |
|                                     |      | 5434.52              | 52.88                     | -21.12                  | 74                                | 42.15                           | 31.64                         | 10.24                  | 31.15                      | 110                  | 131                     | P                          | V    |
|                                     |      | 5453                 | 41.42                     | -12.58                  | 54                                | 30.6                            | 31.71                         | 10.26                  | 31.15                      | 110                  | 131                     | A                          | V    |



|                                     |   |         |        |        |    |        |       |       |       |     |     |   |   |
|-------------------------------------|---|---------|--------|--------|----|--------|-------|-------|-------|-----|-----|---|---|
| 802.11n<br>HT20<br>CH 48<br>5240MHz |   | 5149.76 | 55.85  | -18.15 | 74 | 45.11  | 31.9  | 9.98  | 31.14 | 101 | 152 | P | H |
|                                     |   | 5145.6  | 43.32  | -10.68 | 54 | 32.58  | 31.91 | 9.97  | 31.14 | 101 | 152 | A | H |
|                                     | *   | 5240    | 121.87 | -      | -  | 111.48 | 31.46 | 10.07 | 31.14 | 101 | 152 | P | H |
|                                     | *   | 5240    | 111.25 | -      | -  | 100.86 | 31.46 | 10.07 | 31.14 | 101 | 152 | A | H |
|                                     |   | 5355.56 | 55.86  | -18.14 | 74 | 45.53  | 31.32 | 10.16 | 31.15 | 101 | 152 | P | H |
|                                     |   | 5453    | 45.44  | -8.56  | 54 | 34.62  | 31.71 | 10.26 | 31.15 | 101 | 152 | A | H |
|                                     |   | 5084.76 | 53.44  | -20.56 | 74 | 42.74  | 31.94 | 9.9   | 31.14 | 101 | 131 | P | V |
|                                     |   | 5144.82 | 41.44  | -12.56 | 54 | 30.7   | 31.91 | 9.97  | 31.14 | 101 | 131 | A | V |
|                                     | *   | 5240    | 115.17 | -      | -  | 104.78 | 31.46 | 10.07 | 31.14 | 101 | 131 | P | V |
|                                     | *   | 5240    | 104.49 | -      | -  | 94.1   | 31.46 | 10.07 | 31.14 | 101 | 131 | A | V |
|                                     |   | 5431.16 | 53.08  | -20.92 | 74 | 42.38  | 31.62 | 10.23 | 31.15 | 101 | 131 | P | V |
|                                     |   | 5453    | 41.56  | -12.44 | 54 | 30.74  | 31.71 | 10.26 | 31.15 | 101 | 131 | A | V |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |        |       |       |       |     |     |   |   |



## Band 1 5150~5250MHz

## WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI                                | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT20<br>CH 36<br>5180MHz |   | 10440                | 46.69                     | -21.51                  | 68.2                              | 51.49                           | 39.7                          | 15.67                  | 60.17                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15540                | 62.25                     | -11.75                  | 74                                | 62.48                           | 38.22                         | 19.59                  | 58.04                      | 208                  | 156                     | P                     | H             |
|                                     |   | 15540                | 44.78                     | -9.22                   | 54                                | 45.01                           | 38.22                         | 19.59                  | 58.04                      | 208                  | 156                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10440                | 46.56                     | -21.64                  | 68.2                              | 51.36                           | 39.7                          | 15.67                  | 60.17                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15540                | 47.37                     | -26.63                  | 74                                | 47.6                            | 38.22                         | 19.59                  | 58.04                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 44<br>5220MHz |   | 10440                | 48.94                     | -19.26                  | 68.2                              | 53.74                           | 39.7                          | 15.67                  | 60.17                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15660                | 62.8                      | -11.2                   | 74                                | 63.24                           | 37.8                          | 19.64                  | 57.88                      | 202                  | 156                     | P                     | H             |
|                                     |   | 15660                | 47.27                     | -6.73                   | 54                                | 47.71                           | 37.8                          | 19.64                  | 57.88                      | 202                  | 156                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10440                | 46.23                     | -21.97                  | 68.2                              | 51.03                           | 39.7                          | 15.67                  | 60.17                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15660                | 54.94                     | -19.06                  | 74                                | 55.38                           | 37.8                          | 19.64                  | 57.88                      | 101                  | 222                     | P                     | V             |
|                                     |   | 15660                | 40.31                     | -13.69                  | 54                                | 40.75                           | 37.8                          | 19.64                  | 57.88                      | 101                  | 222                     | A                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 48<br>5240MHz |   | 10480                | 47.48                     | -20.72                  | 68.2                              | 52.34                           | 39.7                          | 15.7                   | 60.26                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15720                | 58.24                     | -15.76                  | 74                                | 58.62                           | 37.76                         | 19.65                  | 57.79                      | 218                  | 206                     | P                     | H             |
|                                     |   | 15720                | 44.12                     | -9.88                   | 54                                | 44.5                            | 37.76                         | 19.65                  | 57.79                      | 218                  | 206                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10480                | 46.52                     | -21.68                  | 68.2                              | 51.38                           | 39.7                          | 15.7                   | 60.26                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15720                | 53.03                     | -20.97                  | 74                                | 53.41                           | 37.76                         | 19.65                  | 57.79                      | 211                  | 230                     | P                     | V             |
|                                     |   | 15720                | 38.11                     | -15.89                  | 54                                | 38.49                           | 37.76                         | 19.65                  | 57.79                      | 211                  | 230                     | A                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 1 5150~5250MHz

## WIFI 802.11n HT40 (Band Edge @ 3m)

| WIFI                                | Note | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>(P/A) | Avg.<br>(H/V) |
|-------------------------------------|------|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|---------------|---------------|
| 802.11n<br>HT40<br>CH 38<br>5190MHz |      | 5147.16              | 66.45                     | -7.55                   | 74                                | 55.7                            | 31.91                         | 9.98                   | 31.14                      | 100                  | 222                     | P             | H             |
|                                     |      | 5149.76              | 51.65                     | -2.35                   | 54                                | 40.91                           | 31.9                          | 9.98                   | 31.14                      | 100                  | 222                     | A             | H             |
|                                     | *    | 5190                 | 107.35                    | -                       | -                                 | 96.72                           | 31.74                         | 10.03                  | 31.14                      | 100                  | 222                     | P             | H             |
|                                     | *    | 5190                 | 97.05                     | -                       | -                                 | 86.42                           | 31.74                         | 10.03                  | 31.14                      | 100                  | 222                     | A             | H             |
|                                     |      | 5439.56              | 53.84                     | -20.16                  | 74                                | 43.09                           | 31.66                         | 10.24                  | 31.15                      | 100                  | 222                     | P             | H             |
|                                     |      | 5376                 | 43.92                     | -10.08                  | 54                                | 33.49                           | 31.4                          | 10.18                  | 31.15                      | 100                  | 222                     | A             | H             |
|                                     |      | 5146.38              | 60.52                     | -13.48                  | 74                                | 49.77                           | 31.91                         | 9.98                   | 31.14                      | 100                  | 129                     | P             | V             |
|                                     |      | 5148.2               | 45.81                     | -8.19                   | 54                                | 35.07                           | 31.9                          | 9.98                   | 31.14                      | 100                  | 129                     | A             | V             |
|                                     | *    | 5190                 | 100.62                    | -                       | -                                 | 89.99                           | 31.74                         | 10.03                  | 31.14                      | 100                  | 129                     | P             | V             |
|                                     | *    | 5190                 | 90.21                     | -                       | -                                 | 79.58                           | 31.74                         | 10.03                  | 31.14                      | 100                  | 129                     | A             | V             |
| 802.11n<br>HT40<br>CH 46<br>5230MHz |      | 5394.76              | 53.59                     | -20.41                  | 74                                | 43.06                           | 31.48                         | 10.2                   | 31.15                      | 100                  | 129                     | P             | V             |
|                                     |      | 5448.8               | 42                        | -12                     | 54                                | 31.2                            | 31.7                          | 10.25                  | 31.15                      | 100                  | 129                     | A             | V             |
|                                     |      | 5146.38              | 65.77                     | -8.23                   | 74                                | 55.02                           | 31.91                         | 9.98                   | 31.14                      | 127                  | 150                     | P             | H             |
|                                     |      | 5150                 | 50.21                     | -3.79                   | 54                                | 39.47                           | 31.9                          | 9.98                   | 31.14                      | 127                  | 150                     | A             | H             |
|                                     | *    | 5230                 | 118.9                     | -                       | -                                 | 108.46                          | 31.52                         | 10.06                  | 31.14                      | 127                  | 150                     | P             | H             |
|                                     | *    | 5230                 | 108.01                    | -                       | -                                 | 97.57                           | 31.52                         | 10.06                  | 31.14                      | 127                  | 150                     | A             | H             |
|                                     |      | 5350                 | 60.82                     | -13.18                  | 74                                | 50.51                           | 31.3                          | 10.16                  | 31.15                      | 127                  | 150                     | P             | H             |
|                                     |      | 5350                 | 47.23                     | -6.77                   | 54                                | 36.92                           | 31.3                          | 10.16                  | 31.15                      | 127                  | 150                     | A             | H             |
|                                     |      | 5146.64              | 57.95                     | -16.05                  | 74                                | 47.2                            | 31.91                         | 9.98                   | 31.14                      | 101                  | 131                     | P             | V             |
|                                     |      | 5149.76              | 46.37                     | -7.63                   | 54                                | 35.63                           | 31.9                          | 9.98                   | 31.14                      | 101                  | 131                     | A             | V             |
| Remark                              | *    | 5230                 | 111.64                    | -                       | -                                 | 101.2                           | 31.52                         | 10.06                  | 31.14                      | 101                  | 131                     | P             | V             |
|                                     | *    | 5230                 | 101.59                    | -                       | -                                 | 91.15                           | 31.52                         | 10.06                  | 31.14                      | 101                  | 131                     | A             | V             |
|                                     |      | 5358.92              | 54.71                     | -19.29                  | 74                                | 44.35                           | 31.34                         | 10.17                  | 31.15                      | 101                  | 131                     | P             | V             |
|                                     |      | 5350                 | 43.02                     | -10.98                  | 54                                | 32.71                           | 31.3                          | 10.16                  | 31.15                      | 101                  | 131                     | A             | V             |



## Band 1 5150~5250MHz

## WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI                                | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT40<br>CH 38<br>5190MHz |   | 10380                | 47.76                     | -20.44                  | 68.2                              | 52.54                           | 39.64                         | 15.62                  | 60.04                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15570                | 43.5                      | -30.5                   | 74                                | 43.89                           | 38.01                         | 19.6                   | 58                         | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10380                | 47.23                     | -20.97                  | 68.2                              | 52.01                           | 39.64                         | 15.62                  | 60.04                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15570                | 43.79                     | -30.21                  | 74                                | 44.18                           | 38.01                         | 19.6                   | 58                         | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT40<br>CH 46<br>5230MHz |   | 10460                | 46.34                     | -21.86                  | 68.2                              | 51.17                           | 39.7                          | 15.68                  | 60.21                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15690                | 57.18                     | -16.82                  | 74                                | 57.57                           | 37.8                          | 19.64                  | 57.83                      | 207                  | 156                     | P                     | H             |
|                                     |   | 15690                | 44.83                     | -9.17                   | 54                                | 45.22                           | 37.8                          | 19.64                  | 57.83                      | 207                  | 156                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10460                | 46.47                     | -21.73                  | 68.2                              | 51.3                            | 39.7                          | 15.68                  | 60.21                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15690                | 46.39                     | -27.61                  | 74                                | 46.78                           | 37.8                          | 19.64                  | 57.83                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 1 5150~5250MHz

## WIFI 802.11ac VHT80 (Band Edge @ 3m)

| WIFI                                  | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A)(H/V) |
|---------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|----------------------------|
| 802.11ac<br>VHT80<br>CH 42<br>5210MHz |   | 5141.96              | 63.18                     | -10.82                  | 74                                | 52.43                           | 31.92                         | 9.97                   | 31.14                      | 100                  | 151                     | P H                        |
|                                       |   | 5144.82              | 51.91                     | -2.09                   | 54                                | 41.17                           | 31.91                         | 9.97                   | 31.14                      | 100                  | 151                     | A H                        |
|                                       | *   | 5210                 | 103.75                    | -                       | -                                 | 93.2                            | 31.64                         | 10.05                  | 31.14                      | 100                  | 151                     | P H                        |
|                                       | *   | 5210                 | 93.42                     | -                       | -                                 | 82.87                           | 31.64                         | 10.05                  | 31.14                      | 100                  | 151                     | A H                        |
|                                       |   | 5453                 | 54.92                     | -19.08                  | 74                                | 44.1                            | 31.71                         | 10.26                  | 31.15                      | 100                  | 151                     | P H                        |
|                                       |   | 5453                 | 47.02                     | -6.98                   | 54                                | 36.2                            | 31.71                         | 10.26                  | 31.15                      | 100                  | 151                     | A H                        |
|                                       |   | 5148.98              | 61.8                      | -12.2                   | 74                                | 51.06                           | 31.9                          | 9.98                   | 31.14                      | 112                  | 226                     | P V                        |
|                                       |   | 5148.2               | 49.2                      | -4.8                    | 54                                | 38.46                           | 31.9                          | 9.98                   | 31.14                      | 112                  | 226                     | A V                        |
|                                       | *   | 5210                 | 95.78                     | -                       | -                                 | 85.23                           | 31.64                         | 10.05                  | 31.14                      | 112                  | 226                     | P V                        |
|                                       | *   | 5210                 | 85.34                     | -                       | -                                 | 74.79                           | 31.64                         | 10.05                  | 31.14                      | 112                  | 226                     | A V                        |
|                                       |   | 5367.04              | 52.75                     | -21.25                  | 74                                | 42.36                           | 31.37                         | 10.17                  | 31.15                      | 112                  | 226                     | P V                        |
|                                       |   | 5446                 | 42.24                     | -11.76                  | 54                                | 31.46                           | 31.68                         | 10.25                  | 31.15                      | 112                  | 226                     | A V                        |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            |



## Band 1 5150~5250MHz

## WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI                                  | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|---------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 42<br>5210MHz |   | 10420                | 46.38                     | -21.82                  | 68.2                              | 51.15                           | 39.7                          | 15.65                  | 60.12                      | 100                  | 0                       | P                     | H             |
|                                       |   | 15630                | 44.65                     | -29.35                  | 74                                | 45.15                           | 37.8                          | 19.62                  | 57.92                      | 100                  | 0                       | P                     | H             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                       |   | 10420                | 46.24                     | -21.96                  | 68.2                              | 51.01                           | 39.7                          | 15.65                  | 60.12                      | 100                  | 0                       | P                     | V             |
|                                       |   | 15630                | 44.41                     | -29.59                  | 74                                | 44.91                           | 37.8                          | 19.62                  | 57.92                      | 100                  | 0                       | P                     | V             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 2 - 5250~5350MHz

## WIFI 802.11a (Band Edge @ 3m)

| WIFI                        | Note | Frequency | Level  | Over   | Limit | Read   | Antenna | Path  | Preamp | Ant | Table | Peak    | Pol.    |
|-----------------------------|------|-----------|--------|--------|-------|--------|---------|-------|--------|-----|-------|---------|---------|
|                             |      |           |        |        |       |        |         |       |        |     |       | Avg.    |         |
|                             |      |           |        |        |       |        |         |       |        |     |       | ( P/A ) | ( H/V ) |
| 802.11a<br>CH 52<br>5260MHz |      | 5146.2    | 54.05  | -19.95 | 74    | 43.3   | 31.91   | 9.98  | 31.14  | 122 | 149   | P       | H       |
|                             |      | 5145.52   | 42.73  | -11.27 | 54    | 31.99  | 31.91   | 9.97  | 31.14  | 122 | 149   | A       | H       |
|                             | *    | 5260      | 123.66 | -      | -     | 113.34 | 31.38   | 10.09 | 31.15  | 122 | 149   | P       | H       |
|                             | *    | 5260      | 112.83 | -      | -     | 102.51 | 31.38   | 10.09 | 31.15  | 122 | 149   | A       | H       |
|                             |      | 5353.44   | 55.69  | -18.31 | 74    | 45.37  | 31.31   | 10.16 | 31.15  | 122 | 149   | P       | H       |
|                             |      | 5453.04   | 45.7   | -8.3   | 54    | 34.88  | 31.71   | 10.26 | 31.15  | 122 | 149   | A       | H       |
|                             |      | 5098.94   | 52.71  | -21.29 | 74    | 41.93  | 32      | 9.92  | 31.14  | 100 | 131   | P       | V       |
|                             |      | 5133.28   | 41.66  | -12.34 | 54    | 30.91  | 31.93   | 9.96  | 31.14  | 100 | 131   | A       | V       |
|                             | *    | 5260      | 115.73 | -      | -     | 105.41 | 31.38   | 10.09 | 31.15  | 100 | 131   | P       | V       |
|                             | *    | 5260      | 105.06 | -      | -     | 94.74  | 31.38   | 10.09 | 31.15  | 100 | 131   | A       | V       |
|                             |      | 5444.88   | 54.03  | -19.97 | 74    | 43.25  | 31.68   | 10.25 | 31.15  | 100 | 131   | P       | V       |
|                             |      | 5452.8    | 41.63  | -12.37 | 54    | 30.81  | 31.71   | 10.26 | 31.15  | 100 | 131   | A       | V       |
| 802.11a<br>CH 60<br>5300MHz |      | 5102      | 53.28  | -20.72 | 74    | 42.5   | 32      | 9.92  | 31.14  | 107 | 150   | P       | H       |
|                             |      | 5145.52   | 42.31  | -11.69 | 54    | 31.57  | 31.91   | 9.97  | 31.14  | 107 | 150   | A       | H       |
|                             | *    | 5300      | 123.42 | -      | -     | 113.15 | 31.3    | 10.12 | 31.15  | 107 | 150   | P       | H       |
|                             | *    | 5300      | 112.47 | -      | -     | 102.2  | 31.3    | 10.12 | 31.15  | 107 | 150   | A       | H       |
|                             |      | 5350.08   | 66.56  | -7.44  | 74    | 56.25  | 31.3    | 10.16 | 31.15  | 107 | 150   | P       | H       |
|                             |      | 5350.08   | 51.6   | -2.4   | 54    | 41.29  | 31.3    | 10.16 | 31.15  | 107 | 150   | A       | H       |
|                             |      | 5139.74   | 53.37  | -20.63 | 74    | 42.62  | 31.92   | 9.97  | 31.14  | 103 | 232   | P       | V       |
|                             |      | 5149.26   | 41.3   | -12.7  | 54    | 30.56  | 31.9    | 9.98  | 31.14  | 103 | 232   | A       | V       |
|                             | *    | 5300      | 116.79 | -      | -     | 106.52 | 31.3    | 10.12 | 31.15  | 103 | 232   | P       | V       |
|                             | *    | 5300      | 105.8  | -      | -     | 95.53  | 31.3    | 10.12 | 31.15  | 103 | 232   | A       | V       |
|                             |      | 5352      | 65.31  | -8.69  | 74    | 54.99  | 31.31   | 10.16 | 31.15  | 103 | 232   | P       | V       |
|                             |      | 5350.32   | 47.64  | -6.36  | 54    | 37.33  | 31.3    | 10.16 | 31.15  | 103 | 232   | A       | V       |



|                                      |   |         |        |        |    |        |       |       |       |     |     |   |   |
|--------------------------------------|---|---------|--------|--------|----|--------|-------|-------|-------|-----|-----|---|---|
| <b>802.11a<br/>CH 64<br/>5320MHz</b> | *   | 5320    | 119.01 | -      | -  | 108.72 | 31.3  | 10.14 | 31.15 | 118 | 220 | P | H |
|                                      | *   | 5320    | 107.95 | -      | -  | 97.66  | 31.3  | 10.14 | 31.15 | 118 | 220 | A | H |
|                                      |   | 5353.44 | 67.44  | -6.56  | 74 | 57.12  | 31.31 | 10.16 | 31.15 | 118 | 220 | P | H |
|                                      |   | 5350.08 | 52.72  | -1.28  | 54 | 42.41  | 31.3  | 10.16 | 31.15 | 118 | 220 | A | H |
|                                      |   |         |        |        |    |        |       |       |       |     |     |   | H |
|                                      |   |         |        |        |    |        |       |       |       |     |     |   | H |
|                                      | *   | 5320    | 111.75 | -      | -  | 101.46 | 31.3  | 10.14 | 31.15 | 104 | 133 | P | V |
|                                      | *   | 5320    | 101.22 | -      | -  | 90.93  | 31.3  | 10.14 | 31.15 | 104 | 133 | A | V |
|                                      |   | 5352.48 | 61.22  | -12.78 | 74 | 50.9   | 31.31 | 10.16 | 31.15 | 104 | 133 | P | V |
|                                      |   | 5350.08 | 46.3   | -7.7   | 54 | 35.99  | 31.3  | 10.16 | 31.15 | 104 | 133 | A | V |
|                                      |   |         |        |        |    |        |       |       |       |     |     |   | V |
|                                      |   |         |        |        |    |        |       |       |       |     |     |   | V |
| <b>Remark</b>                        | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |        |       |       |       |     |     |   |   |



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

| WIFI                                | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11a<br><br>CH 52<br><br>5260MHz |   | 10520                | 51.19                     | -17.01                  | 68.2                              | 56.07                           | 39.74                         | 15.73                  | 60.35                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15780                | 58.74                     | -15.26                  | 74                                | 59.13                           | 37.64                         | 19.68                  | 57.71                      | 100                  | 127                     | P                     | H             |
|                                     |   | 15780                | 43.94                     | -10.06                  | 54                                | 44.33                           | 37.64                         | 19.68                  | 57.71                      | 100                  | 127                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10520                | 49.14                     | -19.06                  | 68.2                              | 54.02                           | 39.74                         | 15.73                  | 60.35                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15780                | 54.58                     | -19.42                  | 74                                | 54.97                           | 37.64                         | 19.68                  | 57.71                      | 100                  | 221                     | P                     | V             |
|                                     |   | 15780                | 41.25                     | -12.75                  | 54                                | 41.64                           | 37.64                         | 19.68                  | 57.71                      | 100                  | 221                     | A                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11a<br><br>CH 60<br><br>5300MHz |   | 10600                | 53.66                     | -20.34                  | 74                                | 58.5                            | 39.9                          | 15.8                   | 60.54                      | 101                  | 133                     | P                     | H             |
|                                     |   | 10600                | 39.56                     | -14.44                  | 54                                | 44.4                            | 39.9                          | 15.8                   | 60.54                      | 101                  | 133                     | A                     | H             |
|                                     |   | 15900                | 58.09                     | -15.91                  | 74                                | 58.6                            | 37.3                          | 19.73                  | 57.54                      | 100                  | 129                     | P                     | H             |
|                                     |   | 15900                | 43.7                      | -10.3                   | 54                                | 44.21                           | 37.3                          | 19.73                  | 57.54                      | 100                  | 129                     | A                     | H             |
|                                     |   | 10600                | 48.07                     | -25.93                  | 74                                | 52.91                           | 39.9                          | 15.8                   | 60.54                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15900                | 48.46                     | -25.54                  | 74                                | 48.97                           | 37.3                          | 19.73                  | 57.54                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11a<br><br>CH 64<br><br>5320MHz |   | 10640                | 46.77                     | -27.23                  | 74                                | 51.73                           | 39.86                         | 15.82                  | 60.64                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15960                | 46.74                     | -27.26                  | 74                                | 47.1                            | 37.36                         | 19.74                  | 57.46                      | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10640                | 45.65                     | -28.35                  | 74                                | 50.61                           | 39.86                         | 15.82                  | 60.64                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15960                | 43.37                     | -30.63                  | 74                                | 43.73                           | 37.36                         | 19.74                  | 57.46                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.<br>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<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>(P/A) | Avg.<br>(H/V) |
|-------------------------------------|------|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|---------------|---------------|
| 802.11n<br>HT20<br>CH 52<br>5260MHz |      | 5149.6               | 54.7                      | -19.3                   | 74                                | 43.96                           | 31.9                          | 9.98                   | 31.14                      | 100                  | 226                     | P             | H             |
|                                     |      | 5149.94              | 42.32                     | -11.68                  | 54                                | 31.58                           | 31.9                          | 9.98                   | 31.14                      | 100                  | 226                     | A             | H             |
|                                     | *    | 5260                 | 123.25                    | -                       | -                                 | 112.93                          | 31.38                         | 10.09                  | 31.15                      | 100                  | 226                     | P             | H             |
|                                     | *    | 5260                 | 112.35                    | -                       | -                                 | 102.03                          | 31.38                         | 10.09                  | 31.15                      | 100                  | 226                     | A             | H             |
|                                     |      | 5351.52              | 59.53                     | -14.47                  | 74                                | 49.21                           | 31.31                         | 10.16                  | 31.15                      | 100                  | 226                     | P             | H             |
|                                     |      | 5350.32              | 44.24                     | -9.76                   | 54                                | 33.93                           | 31.3                          | 10.16                  | 31.15                      | 100                  | 226                     | A             | H             |
|                                     |      | 5147.9               | 53.03                     | -20.97                  | 74                                | 42.29                           | 31.9                          | 9.98                   | 31.14                      | 100                  | 132                     | P             | V             |
|                                     |      | 5149.26              | 41.45                     | -12.55                  | 54                                | 30.71                           | 31.9                          | 9.98                   | 31.14                      | 100                  | 132                     | A             | V             |
|                                     | *    | 5260                 | 116.58                    | -                       | -                                 | 106.26                          | 31.38                         | 10.09                  | 31.15                      | 100                  | 132                     | P             | V             |
|                                     | *    | 5260                 | 105.47                    | -                       | -                                 | 95.15                           | 31.38                         | 10.09                  | 31.15                      | 100                  | 132                     | A             | V             |
| 802.11n<br>HT20<br>CH 60<br>5300MHz |      | 5350.56              | 53.58                     | -20.42                  | 74                                | 43.27                           | 31.3                          | 10.16                  | 31.15                      | 100                  | 132                     | P             | V             |
|                                     |      | 5453.04              | 41.55                     | -12.45                  | 54                                | 30.73                           | 31.71                         | 10.26                  | 31.15                      | 100                  | 132                     | A             | V             |
|                                     |      | 5120.36              | 54.13                     | -19.87                  | 74                                | 43.37                           | 31.96                         | 9.94                   | 31.14                      | 106                  | 153                     | P             | H             |
|                                     |      | 5145.52              | 42.26                     | -11.74                  | 54                                | 31.52                           | 31.91                         | 9.97                   | 31.14                      | 106                  | 153                     | A             | H             |
|                                     | *    | 5300                 | 123.69                    | -                       | -                                 | 113.42                          | 31.3                          | 10.12                  | 31.15                      | 106                  | 153                     | P             | H             |
|                                     | *    | 5300                 | 112.6                     | -                       | -                                 | 102.33                          | 31.3                          | 10.12                  | 31.15                      | 106                  | 153                     | A             | H             |
|                                     |      | 5350.56              | 69.6                      | -4.4                    | 74                                | 59.29                           | 31.3                          | 10.16                  | 31.15                      | 106                  | 153                     | P             | H             |
|                                     |      | 5350.08              | 52.7                      | -1.3                    | 54                                | 42.39                           | 31.3                          | 10.16                  | 31.15                      | 106                  | 153                     | A             | H             |
|                                     |      | 5056.44              | 53.37                     | -20.63                  | 74                                | 42.81                           | 31.83                         | 9.87                   | 31.14                      | 102                  | 232                     | P             | V             |
|                                     |      | 5142.8               | 41.36                     | -12.64                  | 54                                | 30.62                           | 31.91                         | 9.97                   | 31.14                      | 102                  | 232                     | A             | V             |
| 802.11n<br>HT20<br>CH 60<br>5300MHz | *    | 5300                 | 117.32                    | -                       | -                                 | 107.05                          | 31.3                          | 10.12                  | 31.15                      | 102                  | 232                     | P             | V             |
|                                     | *    | 5300                 | 105.99                    | -                       | -                                 | 95.72                           | 31.3                          | 10.12                  | 31.15                      | 102                  | 232                     | A             | V             |
|                                     |      | 5355.84              | 66.32                     | -7.68                   | 74                                | 55.99                           | 31.32                         | 10.16                  | 31.15                      | 102                  | 232                     | P             | V             |
|                                     |      | 5350.08              | 48.48                     | -5.52                   | 54                                | 38.17                           | 31.3                          | 10.16                  | 31.15                      | 102                  | 232                     | A             | V             |



|                                     |   |         |        |        |    |        |       |       |       |     |     |   |   |
|-------------------------------------|---|---------|--------|--------|----|--------|-------|-------|-------|-----|-----|---|---|
| 802.11n<br>HT20<br>CH 64<br>5320MHz | *   | 5320    | 117.56 | -      | -  | 107.27 | 31.3  | 10.14 | 31.15 | 100 | 221 | P | H |
|                                     | *   | 5320    | 106.9  | -      | -  | 96.61  | 31.3  | 10.14 | 31.15 | 100 | 221 | A | H |
|                                     |   | 5350.08 | 69.42  | -4.58  | 74 | 59.11  | 31.3  | 10.16 | 31.15 | 100 | 221 | P | H |
|                                     |   | 5350.08 | 51.6   | -2.4   | 54 | 41.29  | 31.3  | 10.16 | 31.15 | 100 | 221 | A | H |
|                                     |   |         |        |        |    |        |       |       |       |     |     |   | H |
|                                     |   |         |        |        |    |        |       |       |       |     |     |   | H |
|                                     | *   | 5320    | 110.37 | -      | -  | 100.08 | 31.3  | 10.14 | 31.15 | 100 | 131 | P | V |
|                                     | *   | 5320    | 99.65  | -      | -  | 89.36  | 31.3  | 10.14 | 31.15 | 100 | 131 | A | V |
|                                     |   | 5351.68 | 61.74  | -12.26 | 74 | 51.42  | 31.31 | 10.16 | 31.15 | 100 | 131 | P | V |
|                                     |   | 5350.08 | 45.11  | -8.89  | 54 | 34.8   | 31.3  | 10.16 | 31.15 | 100 | 131 | A | V |
|                                     |   |         |        |        |    |        |       |       |       |     |     |   | V |
|                                     |   |         |        |        |    |        |       |       |       |     |     |   | V |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |        |       |       |       |     |     |   |   |



## Band 2 5250~5350MHz

## WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI                                | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT20<br>CH 52<br>5260MHz |   | 10520                | 50.09                     | -18.11                  | 68.2                              | 54.97                           | 39.74                         | 15.73                  | 60.35                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15780                | 59.09                     | -14.91                  | 74                                | 59.48                           | 37.64                         | 19.68                  | 57.71                      | 100                  | 127                     | P                     | H             |
|                                     |   | 15780                | 44.2                      | -9.8                    | 54                                | 44.59                           | 37.64                         | 19.68                  | 57.71                      | 100                  | 127                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10520                | 48.26                     | -19.94                  | 68.2                              | 53.14                           | 39.74                         | 15.73                  | 60.35                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15780                | 57.01                     | -16.99                  | 74                                | 57.4                            | 37.64                         | 19.68                  | 57.71                      | 100                  | 220                     | P                     | V             |
|                                     |   | 15780                | 41.62                     | -12.38                  | 54                                | 42.01                           | 37.64                         | 19.68                  | 57.71                      | 100                  | 220                     | A                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 60<br>5300MHz |   | 10600                | 53.13                     | -20.87                  | 74                                | 57.97                           | 39.9                          | 15.8                   | 60.54                      | 100                  | 130                     | P                     | H             |
|                                     |   | 10600                | 39.12                     | -14.88                  | 54                                | 43.96                           | 39.9                          | 15.8                   | 60.54                      | 100                  | 130                     | A                     | H             |
|                                     |   | 15900                | 58.44                     | -15.56                  | 74                                | 58.95                           | 37.3                          | 19.73                  | 57.54                      | 100                  | 127                     | P                     | H             |
|                                     |   | 15900                | 43.92                     | -10.08                  | 54                                | 44.43                           | 37.3                          | 19.73                  | 57.54                      | 100                  | 127                     | A                     | H             |
|                                     |   | 10600                | 49                        | -25                     | 74                                | 53.84                           | 39.9                          | 15.8                   | 60.54                      | 100                  | 140                     | P                     | V             |
|                                     |   | 10600                | 35.58                     | -18.42                  | 54                                | 40.42                           | 39.9                          | 15.8                   | 60.54                      | 100                  | 140                     | A                     | V             |
|                                     |   | 15900                | 56.47                     | -17.53                  | 74                                | 56.98                           | 37.3                          | 19.73                  | 57.54                      | 100                  | 204                     | P                     | V             |
|                                     |   | 15900                | 41.59                     | -12.41                  | 54                                | 42.1                            | 37.3                          | 19.73                  | 57.54                      | 100                  | 204                     | A                     | V             |
| 802.11n<br>HT20<br>CH 64<br>5320MHz |   | 10640                | 46.78                     | -27.22                  | 74                                | 51.74                           | 39.86                         | 15.82                  | 60.64                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15960                | 44.91                     | -29.09                  | 74                                | 45.27                           | 37.36                         | 19.74                  | 57.46                      | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10640                | 46.68                     | -27.32                  | 74                                | 51.64                           | 39.86                         | 15.82                  | 60.64                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15960                | 42.64                     | -31.36                  | 74                                | 43                              | 37.36                         | 19.74                  | 57.46                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.<br>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<br>( MHz )  | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A)(H/V) | Pol. |
|-------------------------------------|------|---|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|----------------------------|------|
| 802.11n<br>HT40<br>CH 54<br>5270MHz |      | 5135.66   | 55.04                     | -18.96                  | 74                                | 44.29                           | 31.93                         | 9.96                   | 31.14                      | 100                  | 220                     | P                          | H    |
|                                     |      | 5145.86   | 43.45                     | -10.55                  | 54                                | 32.7                            | 31.91                         | 9.98                   | 31.14                      | 100                  | 220                     | A                          | H    |
|                                     | *    | 5270  | 117.73                    | -                       | -                                 | 107.42                          | 31.36                         | 10.1                   | 31.15                      | 100                  | 220                     | P                          | H    |
|                                     | *    | 5270  | 107.55                    | -                       | -                                 | 97.24                           | 31.36                         | 10.1                   | 31.15                      | 100                  | 220                     | A                          | H    |
|                                     |      | 5351.52   | 67.44                     | -6.56                   | 74                                | 57.12                           | 31.31                         | 10.16                  | 31.15                      | 100                  | 220                     | P                          | H    |
|                                     |      | 5350.32   | 52.52                     | -1.48                   | 54                                | 42.21                           | 31.3                          | 10.16                  | 31.15                      | 100                  | 220                     | A                          | H    |
|                                     |      | 5131.92   | 53.56                     | -20.44                  | 74                                | 42.8                            | 31.94                         | 9.96                   | 31.14                      | 106                  | 123                     | P                          | V    |
|                                     |      | 5147.22   | 42.08                     | -11.92                  | 54                                | 31.33                           | 31.91                         | 9.98                   | 31.14                      | 106                  | 123                     | A                          | V    |
|                                     | *    | 5270  | 109.61                    | -                       | -                                 | 99.3                            | 31.36                         | 10.1                   | 31.15                      | 106                  | 123                     | P                          | V    |
|                                     | *    | 5270  | 99.45                     | -                       | -                                 | 89.14                           | 31.36                         | 10.1                   | 31.15                      | 106                  | 123                     | A                          | V    |
| 802.11n<br>HT40<br>CH 62<br>5310MHz |      | 5351.76   | 57.13                     | -16.87                  | 74                                | 46.81                           | 31.31                         | 10.16                  | 31.15                      | 106                  | 123                     | P                          | V    |
|                                     |      | 5350.56   | 43.73                     | -10.27                  | 54                                | 33.42                           | 31.3                          | 10.16                  | 31.15                      | 106                  | 123                     | A                          | V    |
|                                     |      | 5146.2  | 53.31                     | -20.69                  | 74                                | 42.56                           | 31.91                         | 9.98                   | 31.14                      | 107                  | 150                     | P                          | H    |
|                                     |      | 5145.52   | 43.34                     | -10.66                  | 54                                | 32.6                            | 31.91                         | 9.97                   | 31.14                      | 107                  | 150                     | A                          | H    |
|                                     | *    | 5310  | 107.22                    | -                       | -                                 | 96.94                           | 31.3                          | 10.13                  | 31.15                      | 107                  | 150                     | P                          | H    |
|                                     | *    | 5310  | 96.32                     | -                       | -                                 | 86.04                           | 31.3                          | 10.13                  | 31.15                      | 107                  | 150                     | A                          | H    |
|                                     |      | 5350.8  | 67.84                     | -6.16                   | 74                                | 57.53                           | 31.3                          | 10.16                  | 31.15                      | 107                  | 150                     | P                          | H    |
|                                     |      | 5350.8  | 51.98                     | -2.02                   | 54                                | 41.67                           | 31.3                          | 10.16                  | 31.15                      | 107                  | 150                     | A                          | H    |
|                                     |      | 5145.86   | 52.69                     | -21.31                  | 74                                | 41.94                           | 31.91                         | 9.98                   | 31.14                      | 130                  | 229                     | P                          | V    |
|                                     |      | 5100.64   | 41.8                      | -12.2                   | 54                                | 31.02                           | 32                            | 9.92                   | 31.14                      | 130                  | 229                     | A                          | V    |
| Remark                              | *    | 5310  | 101.7                     | -                       | -                                 | 91.42                           | 31.3                          | 10.13                  | 31.15                      | 130                  | 229                     | P                          | V    |
|                                     | *    | 5310  | 90.85                     | -                       | -                                 | 80.57                           | 31.3                          | 10.13                  | 31.15                      | 130                  | 229                     | A                          | V    |
|                                     |      | 5350.8  | 63.65                     | -10.35                  | 74                                | 53.34                           | 31.3                          | 10.16                  | 31.15                      | 130                  | 229                     | P                          | V    |
|                                     |      | 5350.32   | 47.6                      | -6.4                    | 54                                | 37.29                           | 31.3                          | 10.16                  | 31.15                      | 130                  | 229                     | A                          | V    |
|                                     |      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            |      |



## Band 2 5250~5350MHz

## WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI                                | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT40<br>CH 54<br>5270MHz |   | 10540                | 47.79                     | -20.41                  | 68.2                              | 52.66                           | 39.78                         | 15.75                  | 60.4                       | 100                  | 0                       | P                     | H             |
|                                     |   | 15810                | 47.3                      | -26.7                   | 74                                | 47.71                           | 37.57                         | 19.69                  | 57.67                      | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10540                | 47.13                     | -21.07                  | 68.2                              | 52                              | 39.78                         | 15.75                  | 60.4                       | 100                  | 0                       | P                     | V             |
|                                     |   | 15810                | 45.24                     | -28.76                  | 74                                | 45.65                           | 37.57                         | 19.69                  | 57.67                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT40<br>CH 62<br>5310MHz |   | 10620                | 46.47                     | -27.53                  | 74                                | 51.38                           | 39.88                         | 15.8                   | 60.59                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15930                | 44.54                     | -29.46                  | 74                                | 44.97                           | 37.33                         | 19.74                  | 57.5                       | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10620                | 46.86                     | -27.14                  | 74                                | 51.77                           | 39.88                         | 15.8                   | 60.59                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15930                | 43.1                      | -30.9                   | 74                                | 43.53                           | 37.33                         | 19.74                  | 57.5                       | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.<br>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<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>(P/A) | Avg.<br>(H/V) |
|---------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|---------------|---------------|
| 802.11ac<br>VHT80<br>CH 58<br>5290MHz |   | 5099.62              | 53.56                     | -20.44                  | 74                                | 42.78                           | 32                            | 9.92                   | 31.14                      | 102                  | 221                     | P             | H             |
|                                       |   | 5146.88              | 42.3                      | -11.7                   | 54                                | 31.55                           | 31.91                         | 9.98                   | 31.14                      | 102                  | 221                     | A             | H             |
|                                       | *   | 5290                 | 101.88                    | -                       | -                                 | 91.6                            | 31.32                         | 10.11                  | 31.15                      | 102                  | 221                     | P             | H             |
|                                       | *   | 5290                 | 91.12                     | -                       | -                                 | 80.84                           | 31.32                         | 10.11                  | 31.15                      | 102                  | 221                     | A             | H             |
|                                       |   | 5357.04              | 65.2                      | -8.8                    | 74                                | 54.85                           | 31.33                         | 10.17                  | 31.15                      | 102                  | 221                     | P             | H             |
|                                       |   | 5352.96              | 51.92                     | -2.08                   | 54                                | 41.6                            | 31.31                         | 10.16                  | 31.15                      | 102                  | 221                     | A             | H             |
|                                       |   | 5099.62              | 53.76                     | -20.24                  | 74                                | 42.98                           | 32                            | 9.92                   | 31.14                      | 121                  | 231                     | P             | V             |
|                                       |   | 5128.52              | 42.06                     | -11.94                  | 54                                | 31.31                           | 31.94                         | 9.95                   | 31.14                      | 121                  | 231                     | A             | V             |
|                                       | *   | 5290                 | 95.97                     | -                       | -                                 | 85.69                           | 31.32                         | 10.11                  | 31.15                      | 121                  | 231                     | P             | V             |
|                                       | *   | 5290                 | 85.47                     | -                       | -                                 | 75.19                           | 31.32                         | 10.11                  | 31.15                      | 121                  | 231                     | A             | V             |
|                                       |   | 5354.88              | 60.14                     | -13.86                  | 74                                | 49.81                           | 31.32                         | 10.16                  | 31.15                      | 121                  | 231                     | P             | V             |
|                                       |   | 5355.36              | 47.45                     | -6.55                   | 54                                | 37.12                           | 31.32                         | 10.16                  | 31.15                      | 121                  | 231                     | A             | V             |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |               |               |



## Band 2 5250~5350MHz

## WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI                                  | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|---------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 58<br>5290MHz |   | 10580                | 46.57                     | -21.63                  | 68.2                              | 51.42                           | 39.86                         | 15.78                  | 60.49                      | 100                  | 0                       | P                     | H             |
|                                       |   | 15870                | 42.9                      | -31.1                   | 74                                | 43.38                           | 37.39                         | 19.71                  | 57.58                      | 100                  | 0                       | P                     | H             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                       |   | 10580                | 46.63                     | -21.57                  | 68.2                              | 51.48                           | 39.86                         | 15.78                  | 60.49                      | 100                  | 0                       | P                     | V             |
|                                       |   | 15870                | 43.39                     | -30.61                  | 74                                | 43.87                           | 37.39                         | 19.71                  | 57.58                      | 100                  | 0                       | P                     | V             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                                | 1. No other spurious found.<br>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 | Path  | Preamp | Ant | Table | Peak  | Pol.  |
|------------------------------|------|-----------|--------|--------|-------|--------|---------|-------|--------|-----|-------|-------|-------|
|                              |      |           |        |        |       |        |         |       |        |     |       | Avg.  |       |
|                              |      |           |        |        |       |        |         |       |        |     |       | (P/A) | (H/V) |
| 802.11a<br>CH 100<br>5500MHz |      | 5459.44   | 61.58  | -12.42 | 74    | 50.72  | 31.74   | 10.27 | 31.15  | 100 | 219   | P     | H     |
|                              |      | 5467.12   | 66.07  | -2.13  | 68.2  | 55.18  | 31.77   | 10.27 | 31.15  | 100 | 219   | P     | H     |
|                              |      | 5460      | 48.83  | -5.17  | 54    | 37.97  | 31.74   | 10.27 | 31.15  | 100 | 219   | A     | H     |
|                              | *    | 5500      | 119.95 | -      | -     | 108.89 | 31.9    | 10.31 | 31.15  | 100 | 219   | P     | H     |
|                              | *    | 5500      | 108.81 | -      | -     | 97.75  | 31.9    | 10.31 | 31.15  | 100 | 219   | A     | H     |
|                              |      |           |        |        |       |        |         |       |        |     |       |       | H     |
|                              |      | 5459.28   | 58.46  | -15.54 | 74    | 47.6   | 31.74   | 10.27 | 31.15  | 108 | 237   | P     | V     |
|                              |      | 5468.4    | 60.64  | -7.56  | 68.2  | 49.74  | 31.77   | 10.28 | 31.15  | 108 | 237   | P     | V     |
|                              |      | 5459.76   | 44.32  | -9.68  | 54    | 33.46  | 31.74   | 10.27 | 31.15  | 108 | 237   | A     | V     |
|                              | *    | 5500      | 113.24 | -      | -     | 102.18 | 31.9    | 10.31 | 31.15  | 108 | 237   | P     | V     |
| 802.11a<br>CH 116<br>5580MHz | *    | 5500      | 102.91 | -      | -     | 91.85  | 31.9    | 10.31 | 31.15  | 108 | 237   | A     | V     |
|                              |      |           |        |        |       |        |         |       |        |     |       |       | V     |
|                              |      | 5423.92   | 58.82  | -15.18 | 74    | 48.14  | 31.6    | 10.23 | 31.15  | 263 | 141   | P     | H     |
|                              |      | 5460.88   | 57.98  | -10.22 | 68.2  | 47.12  | 31.74   | 10.27 | 31.15  | 263 | 141   | P     | H     |
|                              |      | 5452.72   | 48.08  | -5.92  | 54    | 37.26  | 31.71   | 10.26 | 31.15  | 263 | 141   | A     | H     |
|                              | *    | 5580      | 121.8  | -      | -     | 110.8  | 31.8    | 10.4  | 31.2   | 263 | 141   | P     | H     |
|                              | *    | 5580      | 111.28 | -      | -     | 100.28 | 31.8    | 10.4  | 31.2   | 263 | 141   | A     | H     |
|                              |      | 5756.18   | 59.29  | -8.91  | 68.2  | 47.92  | 32.11   | 10.54 | 31.28  | 263 | 141   | P     | H     |
|                              |      | 5452.48   | 58.37  | -15.63 | 74    | 47.55  | 31.71   | 10.26 | 31.15  | 100 | 240   | P     | V     |
|                              |      | 5468.8    | 57.87  | -10.33 | 68.2  | 46.96  | 31.78   | 10.28 | 31.15  | 100 | 240   | P     | V     |
|                              |      | 5452.72   | 46.74  | -7.26  | 54    | 35.92  | 31.71   | 10.26 | 31.15  | 100 | 240   | A     | V     |
|                              | *    | 5580      | 115.06 | -      | -     | 104.06 | 31.8    | 10.4  | 31.2   | 100 | 240   | P     | V     |
|                              | *    | 5580      | 104.45 | -      | -     | 93.45  | 31.8    | 10.4  | 31.2   | 100 | 240   | A     | V     |
|                              |      | 5762.48   | 58.91  | -9.29  | 68.2  | 47.52  | 32.12   | 10.55 | 31.28  | 100 | 240   | P     | V     |



|                                       |   |         |        |       |      |       |       |       |       |     |     |   |   |
|---------------------------------------|---|---------|--------|-------|------|-------|-------|-------|-------|-----|-----|---|---|
| <b>802.11a<br/>CH 140<br/>5700MHz</b> | *   | 5700    | 110.29 | -     | -    | 99.04 | 32    | 10.5  | 31.25 | 109 | 136 | P | H |
|                                       | *   | 5700    | 99.57  | -     | -    | 88.32 | 32    | 10.5  | 31.25 | 109 | 136 | A | H |
|                                       |   | 5725    | 66.97  | -1.23 | 68.2 | 55.66 | 32.05 | 10.52 | 31.26 | 109 | 136 | P | H |
|                                       |   |         |        |       |      |       |       |       |       |     |     |   | H |
|                                       |   |         |        |       |      |       |       |       |       |     |     |   | H |
|                                       |   |         |        |       |      |       |       |       |       |     |     |   | H |
|                                       | *   | 5700    | 100.59 | -     | -    | 89.34 | 32    | 10.5  | 31.25 | 100 | 130 | P | V |
|                                       | *   | 5700    | 89.83  | -     | -    | 78.58 | 32    | 10.5  | 31.25 | 100 | 130 | A | V |
|                                       |   | 5725.48 | 59.06  | -9.14 | 68.2 | 47.75 | 32.05 | 10.52 | 31.26 | 100 | 130 | P | V |
|                                       |   |         |        |       |      |       |       |       |       |     |     |   | V |
|                                       |   |         |        |       |      |       |       |       |       |     |     |   | V |
|                                       |   |         |        |       |      |       |       |       |       |     |     |   | V |
| <b>Remark</b>                         | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |       |      |       |       |       |       |     |     |   |   |



## Band 3 - 5470~5725MHz

## WIFI 802.11a (Harmonic @ 3m)

| WIFI                         | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11a<br>CH 100<br>5500MHz |   | 11000                | 47.31                     | -26.69                  | 74                                | 52.51                           | 40.2                          | 16.1                   | 61.5                       | 100                  | 0                       | P                     | H             |
|                              |   | 16500                | 49.26                     | -18.94                  | 68.2                              | 46.98                           | 39.4                          | 20.18                  | 57.3                       | 100                  | 0                       | P                     | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   | 11000                | 46.78                     | -27.22                  | 74                                | 51.98                           | 40.2                          | 16.1                   | 61.5                       | 100                  | 0                       | P                     | V             |
|                              |   | 16500                | 45.54                     | -22.66                  | 68.2                              | 43.26                           | 39.4                          | 20.18                  | 57.3                       | 100                  | 0                       | P                     | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11a<br>CH 116<br>5580MHz |   | 11160                | 46.36                     | -27.64                  | 74                                | 52.04                           | 39.62                         | 16.23                  | 61.53                      | 100                  | 0                       | P                     | H             |
|                              |   | 16740                | 64.97                     | -3.23                   | 68.2                              | 61.02                           | 40.4                          | 20.37                  | 56.82                      | 100                  | 128                     | P                     | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   | 11160                | 47.15                     | -26.85                  | 74                                | 52.83                           | 39.62                         | 16.23                  | 61.53                      | 100                  | 0                       | P                     | V             |
|                              |   | 16740                | 56.22                     | -11.98                  | 68.2                              | 52.27                           | 40.4                          | 20.37                  | 56.82                      | 100                  | 0                       | P                     | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11a<br>CH 140<br>5700MHz |   | 11400                | 44.28                     | -29.72                  | 74                                | 49.84                           | 39.6                          | 16.42                  | 61.58                      | 100                  | 0                       | P                     | H             |
|                              |   | 17100                | 46.56                     | -21.64                  | 68.2                              | 41.47                           | 40.5                          | 20.67                  | 56.08                      | 100                  | 0                       | P                     | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   | 11400                | 45.22                     | -28.78                  | 74                                | 50.78                           | 39.6                          | 16.42                  | 61.58                      | 100                  | 0                       | P                     | V             |
|                              |   | 17100                | 46.36                     | -21.84                  | 68.2                              | 41.27                           | 40.5                          | 20.67                  | 56.08                      | 100                  | 0                       | P                     | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                       | 1. No other spurious found.<br>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<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>(P/A) | Avg.<br>(H/V) |
|--------------------------------------|------|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|---------------|---------------|
| 802.11n<br>HT20<br>CH 100<br>5500MHz |      | 5458.64              | 62.65                     | -11.35                  | 74                                | 51.81                           | 31.73                         | 10.26                  | 31.15                      | 102                  | 222                     | P             | H             |
|                                      |      | 5470                 | 66.44                     | -1.76                   | 68.2                              | 55.53                           | 31.78                         | 10.28                  | 31.15                      | 102                  | 222                     | P             | H             |
|                                      |      | 5460                 | 48.44                     | -5.56                   | 54                                | 37.58                           | 31.74                         | 10.27                  | 31.15                      | 102                  | 222                     | A             | H             |
|                                      | *    | 5500                 | 117.72                    | -                       | -                                 | 106.66                          | 31.9                          | 10.31                  | 31.15                      | 102                  | 222                     | P             | H             |
|                                      | *    | 5500                 | 107.06                    | -                       | -                                 | 96                              | 31.9                          | 10.31                  | 31.15                      | 102                  | 222                     | A             | H             |
|                                      |      |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |               | H             |
|                                      |      | 5459.92              | 62.35                     | -11.65                  | 74                                | 51.49                           | 31.74                         | 10.27                  | 31.15                      | 106                  | 237                     | P             | V             |
|                                      |      | 5469.52              | 63.61                     | -4.59                   | 68.2                              | 52.7                            | 31.78                         | 10.28                  | 31.15                      | 106                  | 237                     | P             | V             |
|                                      |      | 5452.56              | 44.23                     | -9.77                   | 54                                | 33.41                           | 31.71                         | 10.26                  | 31.15                      | 106                  | 237                     | A             | V             |
|                                      | *    | 5500                 | 111.74                    | -                       | -                                 | 100.68                          | 31.9                          | 10.31                  | 31.15                      | 106                  | 237                     | P             | V             |
|                                      | *    | 5500                 | 101.32                    | -                       | -                                 | 90.26                           | 31.9                          | 10.31                  | 31.15                      | 106                  | 237                     | A             | V             |
|                                      |      |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |               | V             |
| 802.11n<br>HT20<br>CH 116<br>5580MHz |      | 5452.96              | 54.43                     | -19.57                  | 74                                | 43.61                           | 31.71                         | 10.26                  | 31.15                      | 264                  | 141                     | P             | H             |
|                                      |      | 5469.52              | 54.79                     | -13.41                  | 68.2                              | 43.88                           | 31.78                         | 10.28                  | 31.15                      | 264                  | 141                     | P             | H             |
|                                      |      | 5452.72              | 44.95                     | -9.05                   | 54                                | 34.13                           | 31.71                         | 10.26                  | 31.15                      | 264                  | 141                     | A             | H             |
|                                      | *    | 5580                 | 121.69                    | -                       | -                                 | 110.69                          | 31.8                          | 10.4                   | 31.2                       | 264                  | 141                     | P             | H             |
|                                      | *    | 5580                 | 110.8                     | -                       | -                                 | 99.8                            | 31.8                          | 10.4                   | 31.2                       | 264                  | 141                     | A             | H             |
|                                      |      | 5730.35              | 56.28                     | -11.92                  | 68.2                              | 44.97                           | 32.06                         | 10.52                  | 31.27                      | 264                  | 141                     | P             | H             |
|                                      |      | 5451.28              | 53.18                     | -20.82                  | 74                                | 42.36                           | 31.71                         | 10.26                  | 31.15                      | 100                  | 238                     | P             | V             |
|                                      |      | 5466.88              | 52.5                      | -15.7                   | 68.2                              | 41.61                           | 31.77                         | 10.27                  | 31.15                      | 100                  | 238                     | P             | V             |
|                                      |      | 5452.96              | 41.53                     | -12.47                  | 54                                | 30.71                           | 31.71                         | 10.26                  | 31.15                      | 100                  | 238                     | A             | V             |
|                                      | *    | 5580                 | 114.36                    | -                       | -                                 | 103.36                          | 31.8                          | 10.4                   | 31.2                       | 100                  | 238                     | P             | V             |
|                                      | *    | 5580                 | 103.82                    | -                       | -                                 | 92.82                           | 31.8                          | 10.4                   | 31.2                       | 100                  | 238                     | A             | V             |
|                                      |      | 5759.645             | 52.91                     | -15.29                  | 68.2                              | 41.52                           | 32.12                         | 10.55                  | 31.28                      | 100                  | 238                     | P             | V             |



|                                      |   |         |        |        |      |        |       |       |       |     |     |   |   |
|--------------------------------------|---|---------|--------|--------|------|--------|-------|-------|-------|-----|-----|---|---|
| 802.11n<br>HT20<br>CH 140<br>5700MHz | *   | 5700    | 115.53 | -      | -    | 104.28 | 32    | 10.5  | 31.25 | 100 | 140 | P | H |
|                                      | *   | 5700    | 105.24 | -      | -    | 93.99  | 32    | 10.5  | 31.25 | 100 | 140 | A | H |
|                                      |   | 5726.52 | 65.82  | -2.38  | 68.2 | 54.51  | 32.05 | 10.52 | 31.26 | 100 | 140 | P | H |
|                                      |   |         |        |        |      |        |       |       |       |     |     |   | H |
|                                      |   |         |        |        |      |        |       |       |       |     |     |   | H |
|                                      |   |         |        |        |      |        |       |       |       |     |     |   | H |
|                                      | *   | 5700    | 104.9  | -      | -    | 93.65  | 32    | 10.5  | 31.25 | 100 | 130 | P | V |
|                                      | *   | 5700    | 94.38  | -      | -    | 83.13  | 32    | 10.5  | 31.25 | 100 | 130 | A | V |
|                                      |   | 5734.52 | 57.93  | -10.27 | 68.2 | 46.6   | 32.07 | 10.53 | 31.27 | 100 | 130 | P | V |
|                                      |   |         |        |        |      |        |       |       |       |     |     |   | V |
|                                      |   |         |        |        |      |        |       |       |       |     |     |   | V |
|                                      |   |         |        |        |      |        |       |       |       |     |     |   | V |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |      |        |       |       |       |     |     |   |   |



## Band 3 - 5470~5725MHz

## WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI                                 | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT20<br>CH 100<br>5500MHz |   | 11000                | 46.89                     | -27.11                  | 74                                | 52.09                           | 40.2                          | 16.1                   | 61.5                       | 100                  | 0                       | P                     | H             |
|                                      |   | 16500                | 47.54                     | -20.66                  | 68.2                              | 45.26                           | 39.4                          | 20.18                  | 57.3                       | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11000                | 46.96                     | -27.04                  | 74                                | 52.16                           | 40.2                          | 16.1                   | 61.5                       | 100                  | 0                       | P                     | V             |
|                                      |   | 16500                | 44.44                     | -23.76                  | 68.2                              | 42.16                           | 39.4                          | 20.18                  | 57.3                       | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 116<br>5580MHz |   | 11160                | 45.47                     | -28.53                  | 74                                | 51.15                           | 39.62                         | 16.23                  | 61.53                      | 100                  | 0                       | P                     | H             |
|                                      |   | 16740                | 65.09                     | -3.11                   | 68.2                              | 61.14                           | 40.4                          | 20.37                  | 56.82                      | 100                  | 123                     | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11160                | 45.94                     | -28.06                  | 74                                | 51.62                           | 39.62                         | 16.23                  | 61.53                      | 100                  | 0                       | P                     | V             |
|                                      |   | 16740                | 52.64                     | -15.56                  | 68.2                              | 48.69                           | 40.4                          | 20.37                  | 56.82                      | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 140<br>5700MHz |   | 11400                | 45.2                      | -28.8                   | 74                                | 50.76                           | 39.6                          | 16.42                  | 61.58                      | 100                  | 0                       | P                     | H             |
|                                      |   | 17100                | 47.99                     | -20.21                  | 68.2                              | 42.9                            | 40.5                          | 20.67                  | 56.08                      | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11400                | 45.13                     | -28.87                  | 74                                | 50.69                           | 39.6                          | 16.42                  | 61.58                      | 100                  | 0                       | P                     | V             |
|                                      |   | 17100                | 47.65                     | -20.55                  | 68.2                              | 42.56                           | 40.5                          | 20.67                  | 56.08                      | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                               | 1. No other spurious found.<br>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<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>(P/A) | Avg.<br>(H/V) |
|--------------------------------------|------|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|---------------|---------------|
| 802.11n<br>HT40<br>CH 102<br>5510MHz |      | 5459.2               | 63.25                     | -10.75                  | 74                                | 52.39                           | 31.74                         | 10.27                  | 31.15                      | 100                  | 217                     | P             | H             |
|                                      |      | 5469.52              | 66.64                     | -1.56                   | 68.2                              | 55.73                           | 31.78                         | 10.28                  | 31.15                      | 100                  | 217                     | P             | H             |
|                                      |      | 5459.2               | 46.66                     | -7.34                   | 54                                | 35.8                            | 31.74                         | 10.27                  | 31.15                      | 100                  | 217                     | A             | H             |
|                                      | *    | 5510                 | 108.63                    | -                       | -                                 | 97.59                           | 31.88                         | 10.32                  | 31.16                      | 100                  | 217                     | P             | H             |
|                                      | *    | 5510                 | 98.48                     | -                       | -                                 | 87.44                           | 31.88                         | 10.32                  | 31.16                      | 100                  | 217                     | A             | H             |
|                                      |      | 5753.66              | 53.69                     | -14.51                  | 68.2                              | 42.31                           | 32.11                         | 10.54                  | 31.27                      | 100                  | 217                     | P             | H             |
|                                      |      | 5457.28              | 59.4                      | -14.6                   | 74                                | 48.56                           | 31.73                         | 10.26                  | 31.15                      | 100                  | 237                     | P             | V             |
|                                      |      | 5466.64              | 61.27                     | -6.93                   | 68.2                              | 50.38                           | 31.77                         | 10.27                  | 31.15                      | 100                  | 237                     | P             | V             |
|                                      |      | 5459.92              | 43.45                     | -10.55                  | 54                                | 32.59                           | 31.74                         | 10.27                  | 31.15                      | 100                  | 237                     | A             | V             |
|                                      | *    | 5510                 | 102.07                    | -                       | -                                 | 91.03                           | 31.88                         | 10.32                  | 31.16                      | 100                  | 237                     | P             | V             |
|                                      | *    | 5510                 | 92.44                     | -                       | -                                 | 81.4                            | 31.88                         | 10.32                  | 31.16                      | 100                  | 237                     | A             | V             |
|                                      |      | 5742.635             | 53.28                     | -14.92                  | 68.2                              | 41.93                           | 32.09                         | 10.53                  | 31.27                      | 100                  | 237                     | P             | V             |
| 802.11n<br>HT40<br>CH 110<br>5550MHz |      | 5458.24              | 65.68                     | -8.32                   | 74                                | 54.84                           | 31.73                         | 10.26                  | 31.15                      | 100                  | 123                     | P             | H             |
|                                      |      | 5469.76              | 67.07                     | -1.13                   | 68.2                              | 56.16                           | 31.78                         | 10.28                  | 31.15                      | 100                  | 123                     | P             | H             |
|                                      |      | 5458                 | 50.62                     | -3.38                   | 54                                | 39.78                           | 31.73                         | 10.26                  | 31.15                      | 100                  | 123                     | A             | H             |
|                                      | *    | 5550                 | 119.34                    | -                       | -                                 | 108.35                          | 31.8                          | 10.36                  | 31.17                      | 100                  | 123                     | P             | H             |
|                                      | *    | 5550                 | 109.18                    | -                       | -                                 | 98.19                           | 31.8                          | 10.36                  | 31.17                      | 100                  | 123                     | A             | H             |
|                                      |      | 5758.7               | 55.44                     | -12.76                  | 68.2                              | 44.05                           | 32.12                         | 10.55                  | 31.28                      | 100                  | 123                     | P             | H             |
|                                      |      | 5442.88              | 53.21                     | -20.79                  | 74                                | 42.44                           | 31.67                         | 10.25                  | 31.15                      | 249                  | 112                     | P             | V             |
|                                      |      | 5468.32              | 54.19                     | -14.01                  | 68.2                              | 43.29                           | 31.77                         | 10.28                  | 31.15                      | 249                  | 112                     | P             | V             |
|                                      |      | 5446.72              | 42.44                     | -11.56                  | 54                                | 31.65                           | 31.69                         | 10.25                  | 31.15                      | 249                  | 112                     | A             | V             |
|                                      | *    | 5550                 | 109.47                    | -                       | -                                 | 98.48                           | 31.8                          | 10.36                  | 31.17                      | 249                  | 112                     | P             | V             |
|                                      | *    | 5550                 | 99.44                     | -                       | -                                 | 88.45                           | 31.8                          | 10.36                  | 31.17                      | 249                  | 112                     | A             | V             |
|                                      |      | 5742.635             | 52.71                     | -15.49                  | 68.2                              | 41.36                           | 32.09                         | 10.53                  | 31.27                      | 249                  | 112                     | P             | V             |



|                                      |   |          |        |        |      |        |       |       |       |     |     |   |   |
|--------------------------------------|---|----------|--------|--------|------|--------|-------|-------|-------|-----|-----|---|---|
| 802.11n<br>HT40<br>CH 134<br>5670MHz |   | 5437.5   | 54.07  | -19.93 | 74   | 43.33  | 31.65 | 10.24 | 31.15 | 100 | 139 | P | H |
|                                      |   | 5469     | 53.65  | -14.55 | 68.2 | 42.74  | 31.78 | 10.28 | 31.15 | 100 | 139 | P | H |
|                                      |   | 5452.9   | 44.37  | -9.63  | 54   | 33.55  | 31.71 | 10.26 | 31.15 | 100 | 139 | A | H |
|                                      | *   | 5670     | 114.1  | -      | -    | 103.03 | 31.82 | 10.48 | 31.23 | 100 | 139 | P | H |
|                                      | *   | 5670     | 104.27 | -      | -    | 93.2   | 31.82 | 10.48 | 31.23 | 100 | 139 | A | H |
|                                      |   | 5725.275 | 66.74  | -1.46  | 68.2 | 55.43  | 32.05 | 10.52 | 31.26 | 100 | 139 | P | H |
|                                      |   | 5434     | 52.5   | -21.5  | 74   | 41.77  | 31.64 | 10.24 | 31.15 | 101 | 128 | P | V |
|                                      |   | 5461.65  | 52.85  | -15.35 | 68.2 | 41.98  | 31.75 | 10.27 | 31.15 | 101 | 128 | P | V |
|                                      |   | 5434     | 41.93  | -12.07 | 54   | 31.2   | 31.64 | 10.24 | 31.15 | 101 | 128 | A | V |
|                                      | *   | 5670     | 103.17 | -      | -    | 92.1   | 31.82 | 10.48 | 31.23 | 101 | 128 | P | V |
|                                      | *   | 5670     | 92.73  | -      | -    | 81.66  | 31.82 | 10.48 | 31.23 | 101 | 128 | A | V |
|                                      |   | 5730.35  | 57.75  | -10.45 | 68.2 | 46.44  | 32.06 | 10.52 | 31.27 | 101 | 128 | P | V |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |          |        |        |      |        |       |       |       |     |     |   |   |



## Band 3 - 5470~5725MHz

## WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI                                 | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT40<br>CH 102<br>5510MHz |   | 11020                | 46.81                     | -27.19                  | 74                                | 52.07                           | 40.12                         | 16.12                  | 61.5                       | 100                  | 0                       | P                     | H             |
|                                      |   | 16530                | 44.81                     | -23.39                  | 68.2                              | 42.45                           | 39.4                          | 20.2                   | 57.24                      | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11020                | 47.65                     | -26.35                  | 74                                | 52.91                           | 40.12                         | 16.12                  | 61.5                       | 100                  | 0                       | P                     | V             |
|                                      |   | 16530                | 43.9                      | -24.3                   | 68.2                              | 41.54                           | 39.4                          | 20.2                   | 57.24                      | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT40<br>CH 110<br>5550MHz |   | 11100                | 46.38                     | -27.62                  | 74                                | 51.92                           | 39.8                          | 16.18                  | 61.52                      | 100                  | 0                       | P                     | H             |
|                                      |   | 16650                | 54.78                     | -13.42                  | 68.2                              | 51.68                           | 39.8                          | 20.3                   | 57                         | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11100                | 46.41                     | -27.59                  | 74                                | 51.95                           | 39.8                          | 16.18                  | 61.52                      | 100                  | 0                       | P                     | V             |
|                                      |   | 16650                | 53.26                     | -14.94                  | 68.2                              | 50.16                           | 39.8                          | 20.3                   | 57                         | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT40<br>CH 134<br>5670MHz |   | 11340                | 45.41                     | -28.59                  | 74                                | 51.06                           | 39.54                         | 16.38                  | 61.57                      | 100                  | 0                       | P                     | H             |
|                                      |   | 17010                | 45.48                     | -22.72                  | 68.2                              | 40.67                           | 40.5                          | 20.59                  | 56.28                      | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11340                | 45.01                     | -28.99                  | 74                                | 50.66                           | 39.54                         | 16.38                  | 61.57                      | 100                  | 0                       | P                     | V             |
|                                      |   | 17010                | 45.19                     | -23.01                  | 68.2                              | 40.38                           | 40.5                          | 20.59                  | 56.28                      | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 3 - 5470~5725MHz

## WIFI 802.11ac VHT80 (Band Edge @ 3m)

| WIFI<br>Ant.<br>1+2                    | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>(P/A) | Avg.<br>(H/V) |
|--|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|---------------|---------------|
| 802.11ac<br>VHT80<br>CH 106<br>5530MHz |   | 5455.84              | 64.65                     | -9.35                   | 74                                | 53.82                           | 31.72                         | 10.26                  | 31.15                      | 100                  | 122                     | P             | H             |
|  |   | 5467.6               | 65.54                     | -2.66                   | 68.2                              | 54.65                           | 31.77                         | 10.27                  | 31.15                      | 100                  | 122                     | P             | H             |
|  |   | 5457.76              | 52.87                     | -1.13                   | 54                                | 42.03                           | 31.73                         | 10.26                  | 31.15                      | 100                  | 122                     | P             | H             |
|  | *   | 5530                 | 105.89                    | -                       | -                                 | 94.88                           | 31.84                         | 10.34                  | 31.17                      | 100                  | 122                     | P             | H             |
|  | *   | 5530                 | 94.8                      | -                       | -                                 | 83.79                           | 31.84                         | 10.34                  | 31.17                      | 100                  | 122                     | A             | H             |
|  |   | 5760.59              | 55.12                     | -13.08                  | 68.2                              | 43.73                           | 32.12                         | 10.55                  | 31.28                      | 100                  | 122                     | P             | H             |
|  |   | 5456.8               | 62.09                     | -11.91                  | 74                                | 51.25                           | 31.73                         | 10.26                  | 31.15                      | 102                  | 238                     | P             | V             |
|  |   | 5460.88              | 62.39                     | -5.81                   | 68.2                              | 51.53                           | 31.74                         | 10.27                  | 31.15                      | 102                  | 238                     | P             | V             |
|  |   | 5459.92              | 49.55                     | -4.45                   | 54                                | 38.69                           | 31.74                         | 10.27                  | 31.15                      | 102                  | 238                     | A             | V             |
|  | *   | 5530                 | 99.96                     | -                       | -                                 | 88.95                           | 31.84                         | 10.34                  | 31.17                      | 102                  | 238                     | P             | V             |
|  | *   | 5530                 | 89.39                     | -                       | -                                 | 78.38                           | 31.84                         | 10.34                  | 31.17                      | 102                  | 238                     | A             | V             |
|  |   | 5729.72              | 53.36                     | -14.84                  | 68.2                              | 42.04                           | 32.06                         | 10.52                  | 31.26                      | 102                  | 238                     | P             | V             |
| 802.11ac<br>VHT80<br>CH 122<br>5610MHz |   | 5455.12              | 56.98                     | -17.02                  | 74                                | 46.15                           | 31.72                         | 10.26                  | 31.15                      | 114                  | 137                     | P             | H             |
|  |   | 5464                 | 57.31                     | -10.89                  | 68.2                              | 46.43                           | 31.76                         | 10.27                  | 31.15                      | 114                  | 137                     | P             | H             |
|  |   | 5452.72              | 46.07                     | -7.93                   | 54                                | 35.25                           | 31.71                         | 10.26                  | 31.15                      | 114                  | 137                     | A             | H             |
|  | *   | 5610                 | 112.4                     | -                       | -                                 | 101.4                           | 31.78                         | 10.43                  | 31.21                      | 114                  | 137                     | P             | H             |
|  | *   | 5610                 | 102                       | -                       | -                                 | 91                              | 31.78                         | 10.43                  | 31.21                      | 114                  | 137                     | A             | H             |
|  |   | 5731.925             | 67.04                     | -1.16                   | 68.2                              | 55.72                           | 32.06                         | 10.53                  | 31.27                      | 114                  | 137                     | P             | H             |
|  |   | 5455.84              | 55.43                     | -18.57                  | 74                                | 44.6                            | 31.72                         | 10.26                  | 31.15                      | 102                  | 240                     | P             | V             |
|  |   | 5469.04              | 54.8                      | -13.4                   | 68.2                              | 43.89                           | 31.78                         | 10.28                  | 31.15                      | 102                  | 240                     | P             | V             |
|  |   | 5452.72              | 43.46                     | -10.54                  | 54                                | 32.64                           | 31.71                         | 10.26                  | 31.15                      | 102                  | 240                     | A             | V             |
|  | *   | 5610                 | 104.53                    | -                       | -                                 | 93.53                           | 31.78                         | 10.43                  | 31.21                      | 102                  | 240                     | P             | V             |
|  | *   | 5610                 | 94.42                     | -                       | -                                 | 83.42                           | 31.78                         | 10.43                  | 31.21                      | 102                  | 240                     | A             | V             |
|  |   | 5731.925             | 58                        | -10.2                   | 68.2                              | 46.68                           | 32.06                         | 10.53                  | 31.27                      | 102                  | 240                     | P             | V             |
| Remark                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |               |               |



## Band 3 5470~5725MHz

## WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI                                   | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 106<br>5530MHz |   | 11060                | 45.9                      | -28.1                   | 74                                | 51.3                            | 39.96                         | 16.15                  | 61.51                      | 100                  | 0                       | P                     | H             |
|  |   | 16590                | 44.61                     | -23.59                  | 68.2                              | 42.08                           | 39.4                          | 20.25                  | 57.12                      | 100                  | 0                       | P                     | H             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|  |   | 11060                | 45.92                     | -28.08                  | 74                                | 51.32                           | 39.96                         | 16.15                  | 61.51                      | 100                  | 0                       | P                     | V             |
|  |   | 16590                | 45.11                     | -23.09                  | 68.2                              | 42.58                           | 39.4                          | 20.25                  | 57.12                      | 100                  | 0                       | P                     | V             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11ac<br>VHT80<br>CH 122<br>5610MHz |   | 11220                | 45.48                     | -28.52                  | 74                                | 51.24                           | 39.5                          | 16.28                  | 61.54                      | 100                  | 0                       | P                     | H             |
|  |   | 16830                | 46.87                     | -21.33                  | 68.2                              | 42.54                           | 40.52                         | 20.45                  | 56.64                      | 100                  | 0                       | P                     | H             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|  |   | 11220                | 46.27                     | -27.73                  | 74                                | 52.03                           | 39.5                          | 16.28                  | 61.54                      | 100                  | 0                       | P                     | V             |
|  |   | 16830                | 46.9                      | -21.3                   | 68.2                              | 42.57                           | 40.52                         | 20.45                  | 56.64                      | 100                  | 0                       | P                     | V             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 3 - Straddle Channel

## WIFI 802.11a (Band Edge @ 3m)

| WIFI                         | Note  | Frequency | Level  | Over   | Limit | Read   | Antenna | Path  | Preamp | Ant | Table | Peak   | Pol. |        |     |     |
|------------------------------|---|-----------|--------|--------|-------|--------|---------|-------|--------|-----|-------|--------|------|--------|-----|-----|
|                              |   |           |        |        |       |        |         |       |        |     |       | Limit  | Line | Level  |     |     |
|                              |   |           |        |        |       |        |         |       |        |     |       | Factor | Loss | Factor | Pos | Pos |
| 802.11a<br>CH 144<br>5720MHz |   | 5454.13   | 58.16  | -15.84 | 74    | 47.33  | 31.72   | 10.26 | 31.15  | 261 | 141   | P      | H    |        |     |     |
|                              |   | 5470.12   | 58.1   | -91.9  | 150   | 47.19  | 31.78   | 10.28 | 31.15  | 261 | 141   | P      | H    |        |     |     |
|                              |   | 5452.96   | 47.27  | -6.73  | 54    | 36.45  | 31.71   | 10.26 | 31.15  | 261 | 141   | A      | H    |        |     |     |
|                              | *   | 5720      | 123.51 | -      | -     | 112.21 | 32.04   | 10.52 | 31.26  | 261 | 141   | P      | H    |        |     |     |
|                              | *   | 5720      | 112.25 | -      | -     | 100.95 | 32.04   | 10.52 | 31.26  | 261 | 141   | A      | H    |        |     |     |
|                              |   | 5892      | 60.55  | -7.65  | 68.2  | 48.86  | 32.38   | 10.65 | 31.34  | 261 | 141   | P      | H    |        |     |     |
|                              |   | 5436.58   | 58.38  | -15.62 | 74    | 47.64  | 31.65   | 10.24 | 31.15  | 100 | 130   | P      | V    |        |     |     |
|                              |   | 5465.44   | 58.2   | -10    | 68.2  | 47.32  | 31.76   | 10.27 | 31.15  | 100 | 130   | P      | V    |        |     |     |
|                              |   | 5459.59   | 46.55  | -7.45  | 54    | 35.69  | 31.74   | 10.27 | 31.15  | 100 | 130   | A      | V    |        |     |     |
|                              | *   | 5720      | 112.32 | -      | -     | 101.02 | 32.04   | 10.52 | 31.26  | 100 | 130   | P      | V    |        |     |     |
|                              | *   | 5720      | 101.46 | -      | -     | 90.16  | 32.04   | 10.52 | 31.26  | 100 | 130   | A      | V    |        |     |     |
|                              |   | 5941.5    | 59.31  | -8.89  | 68.2  | 47.42  | 32.57   | 10.69 | 31.37  | 100 | 130   | P      | V    |        |     |     |
| Remark                       | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |        |        |       |        |         |       |        |     |       |        |      |        |     |     |



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

| WIFI                         | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11a<br>CH 144<br>5720MHz |   | 11440                | 45.8                      | -28.2                   | 74                                | 51.26                           | 39.68                         | 16.45                  | 61.59                      | 100                  | 0                       | P                     | H             |
|                              |   | 17160                | 64.93                     | -3.27                   | 68.2                              | 59.61                           | 40.56                         | 20.71                  | 55.95                      | 100                  | 125                     | P                     | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   | 11440                | 44.68                     | -29.32                  | 74                                | 50.14                           | 39.68                         | 16.45                  | 61.59                      | 100                  | 0                       | P                     | V             |
|                              |   | 17160                | 54.64                     | -13.56                  | 68.2                              | 49.32                           | 40.56                         | 20.71                  | 55.95                      | 100                  | 0                       | P                     | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                       | 1. No other spurious found.<br>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<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A)(H/V) | Pol. |
|--------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|----------------------------|------|
| 802.11n<br>HT20<br>CH 144<br>5720MHz |   | 5447.5               | 53.61                     | -20.39                  | 74                                | 42.82                           | 31.69                         | 10.25                  | 31.15                      | 102                  | 138                     | P                          | H    |
|                                      |   | 5470                 | 52.89                     | -15.31                  | 68.2                              | 41.98                           | 31.78                         | 10.28                  | 31.15                      | 102                  | 138                     | P                          | H    |
|                                      |   | 5452.57              | 43.07                     | -10.93                  | 54                                | 32.25                           | 31.71                         | 10.26                  | 31.15                      | 102                  | 138                     | A                          | H    |
|                                      | *   | 5720                 | 122.45                    | -                       | -                                 | 111.15                          | 32.04                         | 10.52                  | 31.26                      | 102                  | 138                     | P                          | H    |
|                                      | *   | 5720                 | 111.92                    | -                       | -                                 | 100.62                          | 32.04                         | 10.52                  | 31.26                      | 102                  | 138                     | A                          | H    |
|                                      |   | 5869                 | 57.94                     | -10.26                  | 68.2                              | 46.3                            | 32.34                         | 10.63                  | 31.33                      | 102                  | 138                     | P                          | H    |
|                                      |   | 5451.79              | 52.77                     | -21.23                  | 74                                | 41.95                           | 31.71                         | 10.26                  | 31.15                      | 101                  | 131                     | P                          | V    |
|                                      |   | 5461.54              | 52.12                     | -16.08                  | 68.2                              | 41.25                           | 31.75                         | 10.27                  | 31.15                      | 101                  | 131                     | P                          | V    |
|                                      |   | 5452.96              | 41.12                     | -12.88                  | 54                                | 30.3                            | 31.71                         | 10.26                  | 31.15                      | 101                  | 131                     | A                          | V    |
|                                      | *   | 5720                 | 111.81                    | -                       | -                                 | 100.51                          | 32.04                         | 10.52                  | 31.26                      | 101                  | 131                     | P                          | V    |
|                                      | *   | 5720                 | 101.22                    | -                       | -                                 | 89.92                           | 32.04                         | 10.52                  | 31.26                      | 101                  | 131                     | A                          | V    |
|                                      |   | 5938.75              | 54.24                     | -13.96                  | 68.2                              | 42.37                           | 32.56                         | 10.68                  | 31.37                      | 101                  | 131                     | P                          | V    |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            |      |



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

| WIFI                                 | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT20<br>CH 144<br>5720MHz |   | 11440                | 46.3                      | -27.7                   | 74                                | 51.76                           | 39.68                         | 16.45                  | 61.59                      | 100                  | 0                       | P                     | H             |
|                                      |   | 17160                | 65                        | -3.2                    | 68.2                              | 59.68                           | 40.56                         | 20.71                  | 55.95                      | 100                  | 127                     | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11440                | 44.91                     | -29.09                  | 74                                | 50.37                           | 39.68                         | 16.45                  | 61.59                      | 100                  | 0                       | P                     | V             |
|                                      |   | 17160                | 54.83                     | -13.37                  | 68.2                              | 49.51                           | 40.56                         | 20.71                  | 55.95                      | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 3 - Straddle Channel

## WIFI 802.11n HT40 (Band Edge @ 3m)

| WIFI                                 | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A)(H/V) | Pol. |
|--------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|----------------------------|------|
| 802.11n<br>HT40<br>CH 142<br>5710MHz |   | 5452.57              | 52.53                     | -21.47                  | 74                                | 41.71                           | 31.71                         | 10.26                  | 31.15                      | 102                  | 140                     | P                          | H    |
|                                      |   | 5466.22              | 52.99                     | -15.21                  | 68.2                              | 42.11                           | 31.76                         | 10.27                  | 31.15                      | 102                  | 140                     | P                          | H    |
|                                      |   | 5452.96              | 43.8                      | -10.2                   | 54                                | 32.98                           | 31.71                         | 10.26                  | 31.15                      | 102                  | 140                     | A                          | H    |
|                                      | *   | 5710                 | 121.19                    | -                       | -                                 | 109.92                          | 32.02                         | 10.51                  | 31.26                      | 102                  | 140                     | P                          | H    |
|                                      | *   | 5710                 | 110.38                    | -                       | -                                 | 99.11                           | 32.02                         | 10.51                  | 31.26                      | 102                  | 140                     | A                          | H    |
|                                      |   | 5851.75              | 65.15                     | -3.05                   | 68.2                              | 53.55                           | 32.3                          | 10.62                  | 31.32                      | 102                  | 140                     | P                          | H    |
|                                      |   | 5458.42              | 52.99                     | -21.01                  | 74                                | 42.15                           | 31.73                         | 10.26                  | 31.15                      | 100                  | 131                     | P                          | V    |
|                                      |   | 5462.71              | 51.99                     | -16.21                  | 68.2                              | 41.12                           | 31.75                         | 10.27                  | 31.15                      | 100                  | 131                     | P                          | V    |
|                                      |   | 5438.14              | 41.96                     | -12.04                  | 54                                | 31.22                           | 31.65                         | 10.24                  | 31.15                      | 100                  | 131                     | A                          | V    |
|                                      | *   | 5710                 | 111.18                    | -                       | -                                 | 99.91                           | 32.02                         | 10.51                  | 31.26                      | 100                  | 131                     | P                          | V    |
|                                      | *   | 5710                 | 100.51                    | -                       | -                                 | 89.24                           | 32.02                         | 10.51                  | 31.26                      | 100                  | 131                     | A                          | V    |
|                                      |   | 5852.25              | 55.11                     | -13.09                  | 68.2                              | 43.51                           | 32.3                          | 10.62                  | 31.32                      | 100                  | 131                     | P                          | V    |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            |      |



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

| WIFI                                 | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT40<br>CH 142<br>5710MHz |   | 11420                | 46.09                     | -27.91                  | 74                                | 51.6                            | 39.64                         | 16.43                  | 61.58                      | 100                  | 0                       | P                     | H             |
|                                      |   | 17130                | 65.11                     | -3.09                   | 68.2                              | 59.89                           | 40.53                         | 20.7                   | 56.01                      | 100                  | 124                     | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11420                | 46.7                      | -27.3                   | 74                                | 52.21                           | 39.64                         | 16.43                  | 61.58                      | 100                  | 0                       | P                     | V             |
|                                      |   | 17130                | 52.91                     | -15.29                  | 68.2                              | 47.69                           | 40.53                         | 20.7                   | 56.01                      | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 3 - Straddle Channel

## WIFI 802.11ac VHT80 (Band Edge @ 3m)

| WIFI                                   | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>(P/A) | Avg.<br>(H/V) |
|--|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|---------------|---------------|
| 802.11ac<br>VHT80<br>CH 138<br>5690MHz |   | 5452.96              | 53.8                      | -20.2                   | 74                                | 42.98                           | 31.71                         | 10.26                  | 31.15                      | 115                  | 145                     | P             | H             |
|  |   | 5469.73              | 53.08                     | -15.12                  | 68.2                              | 42.17                           | 31.78                         | 10.28                  | 31.15                      | 115                  | 145                     | P             | H             |
|  |   | 5452.57              | 43.35                     | -10.65                  | 54                                | 32.53                           | 31.71                         | 10.26                  | 31.15                      | 115                  | 145                     | A             | H             |
|  | *   | 5690                 | 114.22                    | -                       | -                                 | 103.04                          | 31.94                         | 10.49                  | 31.25                      | 115                  | 145                     | P             | H             |
|  | *   | 5690                 | 103.94                    | -                       | -                                 | 92.76                           | 31.94                         | 10.49                  | 31.25                      | 115                  | 145                     | A             | H             |
|  |   | 5852                 | 64.62                     | -3.58                   | 68.2                              | 53.02                           | 32.3                          | 10.62                  | 31.32                      | 115                  | 145                     | P             | H             |
|  |   | 5409.67              | 52.65                     | -21.35                  | 74                                | 42.05                           | 31.54                         | 10.21                  | 31.15                      | 100                  | 130                     | P             | V             |
|  |   | 5466.61              | 52.66                     | -15.54                  | 68.2                              | 41.77                           | 31.77                         | 10.27                  | 31.15                      | 100                  | 130                     | P             | V             |
|  |   | 5452.57              | 41.83                     | -12.17                  | 54                                | 31.01                           | 31.71                         | 10.26                  | 31.15                      | 100                  | 130                     | A             | V             |
|  | *   | 5690                 | 104.3                     | -                       | -                                 | 93.12                           | 31.94                         | 10.49                  | 31.25                      | 100                  | 130                     | P             | V             |
|  | *   | 5690                 | 94.16                     | -                       | -                                 | 82.98                           | 31.94                         | 10.49                  | 31.25                      | 100                  | 130                     | A             | V             |
|  |   | 5851                 | 55.22                     | -12.98                  | 68.2                              | 43.62                           | 32.3                          | 10.62                  | 31.32                      | 100                  | 130                     | P             | V             |
| Remark                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |               |               |



## Band 3 - Straddle Channel

WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI<br>Ant.<br>1+2                    | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 138<br>5690MHz |   | 11380                | 45.46                     | -28.54                  | 74                                | 51.05                           | 39.58                         | 16.41                  | 61.58                      | 100                  | 0                       | P                     | H             |
|  |   | 17070                | 47.51                     | -20.69                  | 68.2                              | 42.52                           | 40.5                          | 20.64                  | 56.15                      | 100                  | 0                       | P                     | H             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|  |   | 11380                | 45.81                     | -28.19                  | 74                                | 51.4                            | 39.58                         | 16.41                  | 61.58                      | 100                  | 0                       | P                     | V             |
|  |   | 17070                | 46.42                     | -21.78                  | 68.2                              | 41.43                           | 40.5                          | 20.64                  | 56.15                      | 100                  | 0                       | P                     | V             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Emission below 1GHz

## WIFI 802.11ac VHT80 (LF @ 3m)

| WIFI                    | Note   | Frequency  | Level | Over   | Limit | Read  | Antenna | Path | Preamp | Ant | Table | Peak  | Pol.  |
|-------------------------|--------|--|-------|--------|-------|-------|---------|------|--------|-----|-------|-------|-------|
|                         |        |  |       |        |       |       |         |      |        |     |       | Avg.  |       |
|                         |        |  |       |        |       |       |         |      |        |     |       | (P/A) | (H/V) |
| 802.11ac<br>VHT80<br>LF |        | 185.2  | 29.94 | -13.56 | 43.5  | 43.55 | 14.78   | 1.95 | 30.34  | -   | -     | P     | H     |
|                         |        | 194.9  | 31.6  | -11.9  | 43.5  | 45.12 | 14.83   | 1.98 | 30.33  | -   | -     | P     | H     |
|                         |        | 243.4  | 30.79 | -15.21 | 46    | 41.3  | 17.63   | 2.1  | 30.24  | -   | -     | P     | H     |
|                         |        | 802.12   | 33    | -13    | 46    | 30.41 | 27.89   | 3.99 | 29.29  | -   | -     | P     | H     |
|                         |        | 893.3  | 39.99 | -6.01  | 46    | 35.96 | 28.94   | 4.24 | 29.15  | 100 | 0     | P     | H     |
|                         |        | 953.44   | 35.77 | -10.23 | 46    | 29.6  | 30.7    | 4.45 | 28.98  | -   | -     | P     | H     |
|                         |        |  |       |        |       |       |         |      |        |     |       |       | H     |
|                         |        |  |       |        |       |       |         |      |        |     |       |       | H     |
|                         |        |  |       |        |       |       |         |      |        |     |       |       | H     |
|                         |        |  |       |        |       |       |         |      |        |     |       |       | H     |
|                         |        |  |       |        |       |       |         |      |        |     |       |       | H     |
|                         |        |  |       |        |       |       |         |      |        |     |       |       | V     |
|                         |        | 61.04  | 32.97 | -7.03  | 40    | 50.51 | 11.77   | 1.15 | 30.46  | 100 | 0     | P     | V     |
|                         |        | 88.2   | 30.57 | -12.93 | 43.5  | 45.29 | 14.34   | 1.38 | 30.44  | -   | -     | P     | V     |
|                         |        | 194.9  | 34.74 | -8.76  | 43.5  | 48.26 | 14.83   | 1.98 | 30.33  | -   | -     | P     | V     |
|                         |        | 717.73   | 34.08 | -11.92 | 46    | 32.96 | 26.85   | 3.75 | 29.48  | -   | -     | P     | V     |
|                         |        | 848.68   | 32.87 | -13.13 | 46    | 29.16 | 28.83   | 4.1  | 29.22  | -   | -     | P     | V     |
|                         |        | 895.24   | 37.46 | -8.54  | 46    | 33.44 | 28.92   | 4.25 | 29.15  | -   | -     | P     | V     |
|                         |        |  |       |        |       |       |         |      |        |     |       |       | V     |
|                         |        |  |       |        |       |       |         |      |        |     |       |       | V     |
|                         |        |  |       |        |       |       |         |      |        |     |       |       | V     |
|                         |        |  |       |        |       |       |         |      |        |     |       |       | V     |
|                         |        |  |       |        |       |       |         |      |        |     |       |       | V     |
|                         | Remark | 1. No other spurious found.<br>2. All results are PASS against limit line. |       |        |       |       |         |      |        |     |       |       |       |

**Note symbol**

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



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

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

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dB $\mu$ V/m) = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dB $\mu$ V) - Preamp Factor(dB)
3. Over Limit(dB) = Level(dB $\mu$ V/m) – Limit Line(dB $\mu$ V/m)

#### For Peak Limit @ 2390MHz:

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

#### For Average Limit @ 2390MHz:

1. Level(dB $\mu$ V/m)  
 $= \text{Antenna Factor(dB/m)} + \text{Path Loss(dB)} + \text{Read Level(dB $\mu$ V)} - \text{Preamp Factor(dB)}$   
 $= 32.22(\text{dB/m}) + 4.58(\text{dB}) + 42.6(\text{dB $\mu$ V}) - 35.86 (\text{dB})$   
 $= 43.54 (\text{dB $\mu$ V/m})$
2. Over Limit(dB) = Level(dB $\mu$ V/m) – Limit Line(dB $\mu$ V/m)  
 $= 43.54(\text{dB $\mu$ V/m}) - 54(\text{dB $\mu$ V/m})$   
 $= -10.46(\text{dB})$

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



&lt;For Antenna 2&gt;

&lt;Chain 1&gt;

## Band 1 - 5150~5250MHz

## WIFI 802.11a (Band Edge @ 3m)

| WIFI                        | Note | Frequency | Level            | Over Limit | Limit Line       | Read Level   | Antenna Factor | Path Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol.  |
|-----------------------------|------|-----------|------------------|------------|------------------|--------------|----------------|-----------|---------------|---------|-----------|-----------|-------|
|                             |      | ( MHz )   | ( dB $\mu$ V/m ) | ( dB )     | ( dB $\mu$ V/m ) | (dB $\mu$ V) | ( dB/m )       | ( dB )    | ( dB )        | ( cm )  | ( deg )   | (P/A)     | (H/V) |
| 802.11a<br>CH 36<br>5180MHz |      | 5073.84   | 53.91            | -20.09     | 74               | 45.59        | 31.9           | 9.89      | 33.47         | 203     | 323       | P         | H     |
|                             |      | 5134.16   | 41.03            | -12.97     | 54               | 32.61        | 31.93          | 9.96      | 33.47         | 203     | 323       | A         | H     |
|                             | *    | 5180      | 103.88           | -          | -                | 95.54        | 31.78          | 10.02     | 33.46         | 203     | 323       | P         | H     |
|                             | *    | 5180      | 94.06            | -          | -                | 85.72        | 31.78          | 10.02     | 33.46         | 203     | 323       | A         | H     |
|                             |      |           |                  |            |                  |              |                |           |               |         |           |           | H     |
|                             |      |           |                  |            |                  |              |                |           |               |         |           |           | H     |
|                             |      | 5149.24   | 63.17            | -10.83     | 74               | 54.76        | 31.9           | 9.98      | 33.47         | 306     | 17        | P         | V     |
|                             |      | 5149.76   | 45.58            | -8.42      | 54               | 37.17        | 31.9           | 9.98      | 33.47         | 306     | 17        | A         | V     |
|                             | *    | 5180      | 112.53           | -          | -                | 104.19       | 31.78          | 10.02     | 33.46         | 306     | 17        | P         | V     |
|                             | *    | 5180      | 102.9            | -          | -                | 94.56        | 31.78          | 10.02     | 33.46         | 306     | 17        | A         | V     |
|                             |      |           |                  |            |                  |              |                |           |               |         |           |           | V     |
|                             |      |           |                  |            |                  |              |                |           |               |         |           |           | V     |
| 802.11a<br>CH 44<br>5220MHz |      | 5049.92   | 54.12            | -19.88     | 74               | 45.94        | 31.8           | 9.86      | 33.48         | 201     | 319       | P         | H     |
|                             |      | 5135.72   | 41.04            | -12.96     | 54               | 32.62        | 31.93          | 9.96      | 33.47         | 201     | 319       | A         | H     |
|                             | *    | 5220      | 102.97           | -          | -                | 94.79        | 31.58          | 10.06     | 33.46         | 201     | 319       | P         | H     |
|                             | *    | 5220      | 93.49            | -          | -                | 85.31        | 31.58          | 10.06     | 33.46         | 201     | 319       | A         | H     |
|                             |      | 5400.08   | 53.53            | -20.47     | 74               | 45.27        | 31.5           | 10.2      | 33.44         | 201     | 319       | P         | H     |
|                             |      | 5454.68   | 40.93            | -13.07     | 54               | 32.38        | 31.72          | 10.26     | 33.43         | 201     | 319       | A         | H     |
|                             |      | 5146.64   | 54.71            | -19.29     | 74               | 46.29        | 31.91          | 9.98      | 33.47         | 300     | 168       | P         | V     |
|                             |      | 5148.46   | 41.68            | -12.32     | 54               | 33.27        | 31.9           | 9.98      | 33.47         | 300     | 168       | A         | V     |
|                             | *    | 5220      | 112.92           | -          | -                | 104.74       | 31.58          | 10.06     | 33.46         | 300     | 168       | P         | V     |
|                             | *    | 5220      | 103.89           | -          | -                | 95.71        | 31.58          | 10.06     | 33.46         | 300     | 168       | A         | V     |
|                             |      | 5357.8    | 54.28            | -19.72     | 74               | 46.22        | 31.33          | 10.17     | 33.44         | 300     | 168       | P         | V     |
|                             |      | 5442.92   | 41.18            | -12.82     | 54               | 32.7         | 31.67          | 10.25     | 33.44         | 300     | 168       | A         | V     |



| 802.11a<br>CH 48<br>5240MHz |   | 5121.94 | 54.96  | -19.04 | 74 | 46.52  | 31.96 | 9.95  | 33.47 | 307 | 321 | P | H |
|-----------------------------|---|---------|--------|--------|----|--------|-------|-------|-------|-----|-----|---|---|
|                             |   | 5146.9  | 41.07  | -12.93 | 54 | 32.65  | 31.91 | 9.98  | 33.47 | 307 | 321 | A | H |
|                             | *   | 5240    | 102.2  | -      | -  | 94.13  | 31.46 | 10.07 | 33.46 | 307 | 321 | P | H |
|                             | *   | 5240    | 92.44  | -      | -  | 84.37  | 31.46 | 10.07 | 33.46 | 307 | 321 | A | H |
|                             |   | 5445.44 | 53.81  | -20.19 | 74 | 45.32  | 31.68 | 10.25 | 33.44 | 307 | 321 | P | H |
|                             |   | 5452.72 | 40.86  | -13.14 | 54 | 32.32  | 31.71 | 10.26 | 33.43 | 307 | 321 | A | H |
|                             |   | 5095.94 | 54.49  | -19.51 | 74 | 46.06  | 31.98 | 9.92  | 33.47 | 400 | 327 | P | V |
|                             |   | 5139.1  | 41.16  | -12.84 | 54 | 32.74  | 31.92 | 9.97  | 33.47 | 400 | 327 | A | V |
|                             | *   | 5240    | 111.88 | -      | -  | 103.81 | 31.46 | 10.07 | 33.46 | 400 | 327 | P | V |
|                             | *   | 5240    | 101.75 | -      | -  | 93.68  | 31.46 | 10.07 | 33.46 | 400 | 327 | A | V |
|                             |   | 5400.36 | 54.9   | -19.1  | 74 | 46.64  | 31.5  | 10.2  | 33.44 | 400 | 327 | P | V |
|                             |   | 5381.88 | 41.29  | -12.71 | 54 | 33.11  | 31.43 | 10.19 | 33.44 | 400 | 327 | A | V |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |        |       |       |       |     |     |   |   |



**Band 1 5150~5250MHz**  
**WIFI 802.11a (Harmonic @ 3m)**

| WIFI                                | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11a<br><br>CH 36<br><br>5180MHz |   | 10360                | 47.52                     | -20.68                  | 68.2                              | 52.33                           | 39.58                         | 15.6                   | 59.99                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15540                | 61.07                     | -12.93                  | 74                                | 61.3                            | 38.22                         | 19.59                  | 58.04                      | 176                  | 333                     | P                     | H             |
|                                     |   | 15540                | 46.28                     | -7.72                   | 54                                | 46.51                           | 38.22                         | 19.59                  | 58.04                      | 176                  | 333                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10360                | 47.13                     | -21.07                  | 68.2                              | 51.94                           | 39.58                         | 15.6                   | 59.99                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15540                | 59.69                     | -14.31                  | 74                                | 59.92                           | 38.22                         | 19.59                  | 58.04                      | 100                  | 319                     | P                     | V             |
|                                     |   | 15540                | 44.52                     | -9.48                   | 54                                | 44.75                           | 38.22                         | 19.59                  | 58.04                      | 100                  | 319                     | A                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11a<br><br>CH 44<br><br>5220MHz |   | 10440                | 46.93                     | -21.27                  | 68.2                              | 51.73                           | 39.7                          | 15.67                  | 60.17                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15660                | 62.56                     | -11.44                  | 74                                | 63                              | 37.8                          | 19.64                  | 57.88                      | 181                  | 332                     | P                     | H             |
|                                     |   | 15660                | 47.09                     | -6.91                   | 54                                | 47.53                           | 37.8                          | 19.64                  | 57.88                      | 181                  | 332                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10440                | 46.83                     | -21.37                  | 68.2                              | 51.63                           | 39.7                          | 15.67                  | 60.17                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15660                | 61.05                     | -12.95                  | 74                                | 61.49                           | 37.8                          | 19.64                  | 57.88                      | 302                  | 312                     | P                     | V             |
|                                     |   | 15660                | 45.74                     | -8.26                   | 54                                | 46.18                           | 37.8                          | 19.64                  | 57.88                      | 302                  | 312                     | A                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11a<br><br>CH 48<br><br>5240MHz |   | 10480                | 47.92                     | -20.28                  | 68.2                              | 52.78                           | 39.7                          | 15.7                   | 60.26                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15720                | 48.16                     | -25.84                  | 74                                | 48.54                           | 37.76                         | 19.65                  | 57.79                      | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10480                | 47.34                     | -20.86                  | 68.2                              | 52.2                            | 39.7                          | 15.7                   | 60.26                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15720                | 46.32                     | -27.68                  | 74                                | 46.7                            | 37.76                         | 19.65                  | 57.79                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 1 5150~5250MHz

## WIFI 802.11n HT20 (Band Edge @ 3m)

| WIFI                                | Note | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A)(H/V) | Pol. |
|-------------------------------------|------|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|----------------------------|------|
| 802.11n<br>HT20<br>CH 36<br>5180MHz |      | 5138.32              | 54.11                     | -19.89                  | 74                                | 45.69                           | 31.92                         | 9.97                   | 33.47                      | 203                  | 322                     | P                          | H    |
|                                     |      | 5112.32              | 40.99                     | -13.01                  | 54                                | 32.55                           | 31.98                         | 9.93                   | 33.47                      | 203                  | 322                     | A                          | H    |
|                                     | *    | 5180                 | 103.78                    | -                       | -                                 | 95.44                           | 31.78                         | 10.02                  | 33.46                      | 203                  | 322                     | P                          | H    |
|                                     | *    | 5180                 | 93.58                     | -                       | -                                 | 85.24                           | 31.78                         | 10.02                  | 33.46                      | 203                  | 322                     | A                          | H    |
|                                     |      |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            | H    |
|                                     |      |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            | H    |
|                                     |      | 5148.98              | 63.05                     | -10.95                  | 74                                | 54.64                           | 31.9                          | 9.98                   | 33.47                      | 308                  | 17                      | P                          | V    |
|                                     |      | 5150                 | 45.77                     | -8.23                   | 54                                | 37.36                           | 31.9                          | 9.98                   | 33.47                      | 308                  | 17                      | A                          | V    |
|                                     | *    | 5180                 | 111.92                    | -                       | -                                 | 103.58                          | 31.78                         | 10.02                  | 33.46                      | 308                  | 17                      | P                          | V    |
|                                     | *    | 5180                 | 101.3                     | -                       | -                                 | 92.96                           | 31.78                         | 10.02                  | 33.46                      | 308                  | 17                      | A                          | V    |
|                                     |      |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            | V    |
|                                     |      |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            | V    |
| 802.11n<br>HT20<br>CH 44<br>5220MHz |      | 5145.08              | 53.42                     | -20.58                  | 74                                | 45.01                           | 31.91                         | 9.97                   | 33.47                      | 224                  | 318                     | P                          | H    |
|                                     |      | 5141.44              | 40.99                     | -13.01                  | 54                                | 32.57                           | 31.92                         | 9.97                   | 33.47                      | 224                  | 318                     | A                          | H    |
|                                     | *    | 5220                 | 104.71                    | -                       | -                                 | 96.53                           | 31.58                         | 10.06                  | 33.46                      | 224                  | 318                     | P                          | H    |
|                                     | *    | 5220                 | 94.06                     | -                       | -                                 | 85.88                           | 31.58                         | 10.06                  | 33.46                      | 224                  | 318                     | A                          | H    |
|                                     |      | 5405.12              | 54.24                     | -19.76                  | 74                                | 45.95                           | 31.52                         | 10.21                  | 33.44                      | 224                  | 318                     | P                          | H    |
|                                     |      | 5445.44              | 40.77                     | -13.23                  | 54                                | 32.28                           | 31.68                         | 10.25                  | 33.44                      | 224                  | 318                     | A                          | H    |
|                                     |      | 5149.24              | 56.05                     | -17.95                  | 74                                | 47.64                           | 31.9                          | 9.98                   | 33.47                      | 319                  | 167                     | P                          | V    |
|                                     |      | 5146.38              | 41.59                     | -12.41                  | 54                                | 33.17                           | 31.91                         | 9.98                   | 33.47                      | 319                  | 167                     | A                          | V    |
|                                     | *    | 5220                 | 112.22                    | -                       | -                                 | 104.04                          | 31.58                         | 10.06                  | 33.46                      | 319                  | 167                     | P                          | V    |
|                                     | *    | 5220                 | 101.71                    | -                       | -                                 | 93.53                           | 31.58                         | 10.06                  | 33.46                      | 319                  | 167                     | A                          | V    |
|                                     |      | 5425.56              | 54.35                     | -19.65                  | 74                                | 45.96                           | 31.6                          | 10.23                  | 33.44                      | 319                  | 167                     | P                          | V    |
|                                     |      | 5452.16              | 41.25                     | -12.75                  | 54                                | 32.71                           | 31.71                         | 10.26                  | 33.43                      | 319                  | 167                     | A                          | V    |



|                                     |   |         |        |        |    |        |       |       |       |     |     |   |   |
|-------------------------------------|---|---------|--------|--------|----|--------|-------|-------|-------|-----|-----|---|---|
| 802.11n<br>HT20<br>CH 48<br>5240MHz |   | 5123.24 | 54.02  | -19.98 | 74 | 45.59  | 31.95 | 9.95  | 33.47 | 308 | 321 | P | H |
|                                     |   | 5138.06 | 40.93  | -13.07 | 54 | 32.51  | 31.92 | 9.97  | 33.47 | 308 | 321 | A | H |
|                                     | *   | 5240    | 102.19 | -      | -  | 94.12  | 31.46 | 10.07 | 33.46 | 308 | 321 | P | H |
|                                     | *   | 5240    | 91.8   | -      | -  | 83.73  | 31.46 | 10.07 | 33.46 | 308 | 321 | A | H |
|                                     |   | 5443.76 | 53.98  | -20.02 | 74 | 45.49  | 31.68 | 10.25 | 33.44 | 308 | 321 | P | H |
|                                     |   | 5423.04 | 40.82  | -13.18 | 54 | 32.44  | 31.59 | 10.23 | 33.44 | 308 | 321 | A | H |
|                                     |   | 5147.94 | 55.12  | -18.88 | 74 | 46.71  | 31.9  | 9.98  | 33.47 | 400 | 334 | P | V |
|                                     |   | 5149.76 | 41.22  | -12.78 | 54 | 32.81  | 31.9  | 9.98  | 33.47 | 400 | 334 | A | V |
|                                     | *   | 5240    | 111.71 | -      | -  | 103.64 | 31.46 | 10.07 | 33.46 | 400 | 334 | P | V |
|                                     | *   | 5240    | 101.44 | -      | -  | 93.37  | 31.46 | 10.07 | 33.46 | 400 | 334 | A | V |
|                                     |   | 5453.56 | 54.72  | -19.28 | 74 | 46.18  | 31.71 | 10.26 | 33.43 | 400 | 334 | P | V |
|                                     |   | 5459.72 | 41.17  | -12.83 | 54 | 32.59  | 31.74 | 10.27 | 33.43 | 400 | 334 | A | V |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |        |       |       |       |     |     |   |   |



## Band 1 5150~5250MHz

## WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI                                | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT20<br>CH 36<br>5180MHz |   | 10360                | 46.84                     | -21.36                  | 68.2                              | 51.65                           | 39.58                         | 15.6                   | 59.99                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15540                | 62.36                     | -11.64                  | 74                                | 62.59                           | 38.22                         | 19.59                  | 58.04                      | 177                  | 334                     | P                     | H             |
|                                     |   | 15540                | 45.04                     | -8.96                   | 54                                | 45.27                           | 38.22                         | 19.59                  | 58.04                      | 177                  | 334                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10360                | 47.68                     | -20.52                  | 68.2                              | 52.49                           | 39.58                         | 15.6                   | 59.99                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15540                | 59.97                     | -14.03                  | 74                                | 60.2                            | 38.22                         | 19.59                  | 58.04                      | 100                  | 319                     | P                     | V             |
|                                     |   | 15540                | 43.62                     | -10.38                  | 54                                | 43.85                           | 38.22                         | 19.59                  | 58.04                      | 100                  | 319                     | A                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 44<br>5220MHz |   | 10440                | 46.75                     | -21.45                  | 68.2                              | 51.55                           | 39.7                          | 15.67                  | 60.17                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15660                | 63.29                     | -10.71                  | 74                                | 63.73                           | 37.8                          | 19.64                  | 57.88                      | 188                  | 331                     | P                     | H             |
|                                     |   | 15660                | 45.11                     | -8.89                   | 54                                | 45.55                           | 37.8                          | 19.64                  | 57.88                      | 188                  | 331                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10440                | 47.09                     | -21.11                  | 68.2                              | 51.89                           | 39.7                          | 15.67                  | 60.17                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15660                | 61.72                     | -12.28                  | 74                                | 62.16                           | 37.8                          | 19.64                  | 57.88                      | 322                  | 312                     | P                     | V             |
|                                     |   | 15660                | 43.97                     | -10.03                  | 54                                | 44.41                           | 37.8                          | 19.64                  | 57.88                      | 322                  | 312                     | A                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 48<br>5240MHz |   | 10480                | 47.53                     | -20.67                  | 68.2                              | 52.39                           | 39.7                          | 15.7                   | 60.26                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15720                | 47.4                      | -26.6                   | 74                                | 47.78                           | 37.76                         | 19.65                  | 57.79                      | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10480                | 48.08                     | -20.12                  | 68.2                              | 52.94                           | 39.7                          | 15.7                   | 60.26                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15720                | 47.4                      | -26.6                   | 74                                | 47.78                           | 37.76                         | 19.65                  | 57.79                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 1 5150~5250MHz

## WIFI 802.11n HT40 (Band Edge @ 3m)

| WIFI                                | Note | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A)(H/V) | Pol. |
|-------------------------------------|------|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|----------------------------|------|
| 802.11n<br>HT40<br>CH 38<br>5190MHz |      | 5150                 | 54.75                     | -19.25                  | 74                                | 46.34                           | 31.9                          | 9.98                   | 33.47                      | 196                  | 315                     | P                          | H    |
|                                     |      | 5149.76              | 42.08                     | -11.92                  | 54                                | 33.67                           | 31.9                          | 9.98                   | 33.47                      | 196                  | 315                     | A                          | H    |
|                                     | *    | 5190                 | 97.39                     | -                       | -                                 | 89.08                           | 31.74                         | 10.03                  | 33.46                      | 196                  | 315                     | P                          | H    |
|                                     | *    | 5190                 | 87.31                     | -                       | -                                 | 79                              | 31.74                         | 10.03                  | 33.46                      | 196                  | 315                     | A                          | H    |
|                                     |      | 5358.36              | 53.68                     | -20.32                  | 74                                | 45.62                           | 31.33                         | 10.17                  | 33.44                      | 196                  | 315                     | P                          | H    |
|                                     |      | 5431.72              | 41.73                     | -12.27                  | 54                                | 33.31                           | 31.63                         | 10.23                  | 33.44                      | 196                  | 315                     | A                          | H    |
|                                     |      | 5146.9               | 59.83                     | -14.17                  | 74                                | 51.41                           | 31.91                         | 9.98                   | 33.47                      | 285                  | 170                     | P                          | V    |
|                                     |      | 5145.6               | 44.16                     | -9.84                   | 54                                | 35.75                           | 31.91                         | 9.97                   | 33.47                      | 285                  | 170                     | A                          | V    |
|                                     | *    | 5190                 | 105.5                     | -                       | -                                 | 97.19                           | 31.74                         | 10.03                  | 33.46                      | 285                  | 170                     | P                          | V    |
|                                     | *    | 5190                 | 95.54                     | -                       | -                                 | 87.23                           | 31.74                         | 10.03                  | 33.46                      | 285                  | 170                     | A                          | V    |
| 802.11n<br>HT40<br>CH 46<br>5230MHz |      | 5433.68              | 54.57                     | -19.43                  | 74                                | 46.14                           | 31.63                         | 10.24                  | 33.44                      | 285                  | 170                     | P                          | V    |
|                                     |      | 5453.28              | 41.98                     | -12.02                  | 54                                | 33.44                           | 31.71                         | 10.26                  | 33.43                      | 285                  | 170                     | A                          | V    |
|                                     |      | 5122.46              | 54.64                     | -19.36                  | 74                                | 46.2                            | 31.96                         | 9.95                   | 33.47                      | 302                  | 321                     | P                          | H    |
|                                     |      | 5148.2               | 42.07                     | -11.93                  | 54                                | 33.66                           | 31.9                          | 9.98                   | 33.47                      | 302                  | 321                     | A                          | H    |
|                                     | *    | 5230                 | 100.18                    | -                       | -                                 | 92.06                           | 31.52                         | 10.06                  | 33.46                      | 302                  | 321                     | P                          | H    |
|                                     | *    | 5230                 | 89.98                     | -                       | -                                 | 81.86                           | 31.52                         | 10.06                  | 33.46                      | 302                  | 321                     | A                          | H    |
|                                     |      | 5382.72              | 53.74                     | -20.26                  | 74                                | 45.56                           | 31.43                         | 10.19                  | 33.44                      | 302                  | 321                     | P                          | H    |
|                                     |      | 5430.04              | 41.79                     | -12.21                  | 54                                | 33.38                           | 31.62                         | 10.23                  | 33.44                      | 302                  | 321                     | A                          | H    |
|                                     |      | 5149.5               | 55.58                     | -18.42                  | 74                                | 47.17                           | 31.9                          | 9.98                   | 33.47                      | 400                  | 325                     | P                          | V    |
|                                     |      | 5143.52              | 42.99                     | -11.01                  | 54                                | 34.58                           | 31.91                         | 9.97                   | 33.47                      | 400                  | 325                     | A                          | V    |
| Remark                              | *    | 5230                 | 108.82                    | -                       | -                                 | 100.7                           | 31.52                         | 10.06                  | 33.46                      | 400                  | 325                     | P                          | V    |
|                                     | *    | 5230                 | 98.81                     | -                       | -                                 | 90.69                           | 31.52                         | 10.06                  | 33.46                      | 400                  | 325                     | A                          | V    |
|                                     |      | 5350.24              | 57.01                     | -16.99                  | 74                                | 48.99                           | 31.3                          | 10.16                  | 33.44                      | 400                  | 325                     | P                          | V    |
|                                     |      | 5350                 | 42.24                     | -11.76                  | 54                                | 34.22                           | 31.3                          | 10.16                  | 33.44                      | 400                  | 325                     | A                          | V    |



## Band 1 5150~5250MHz

## WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI                                | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT40<br>CH 38<br>5190MHz |   | 10380                | 46.75                     | -21.45                  | 68.2                              | 51.53                           | 39.64                         | 15.62                  | 60.04                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15570                | 45.78                     | -28.22                  | 74                                | 46.17                           | 38.01                         | 19.6                   | 58                         | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10380                | 47.68                     | -20.52                  | 68.2                              | 52.46                           | 39.64                         | 15.62                  | 60.04                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15570                | 45.68                     | -28.32                  | 74                                | 46.07                           | 38.01                         | 19.6                   | 58                         | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT40<br>CH 46<br>5230MHz |   | 10460                | 46.79                     | -21.41                  | 68.2                              | 51.62                           | 39.7                          | 15.68                  | 60.21                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15690                | 48.97                     | -25.03                  | 74                                | 49.36                           | 37.8                          | 19.64                  | 57.83                      | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10460                | 47.78                     | -20.42                  | 68.2                              | 52.61                           | 39.7                          | 15.68                  | 60.21                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15690                | 47.59                     | -26.41                  | 74                                | 47.98                           | 37.8                          | 19.64                  | 57.83                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 1 5150~5250MHz

## WIFI 802.11ac VHT80 (Band Edge @ 3m)

| WIFI                                  | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>(P/A) | Avg.<br>(H/V) |
|---------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|---------------|---------------|
| 802.11ac<br>VHT80<br>CH 42<br>5210MHz |   | 5146.64              | 53.89                     | -20.11                  | 74                                | 45.47                           | 31.91                         | 9.98                   | 33.47                      | 215                  | 318                     | P             | H             |
|                                       |   | 5150                 | 42.25                     | -11.75                  | 54                                | 33.84                           | 31.9                          | 9.98                   | 33.47                      | 215                  | 318                     | A             | H             |
|                                       | *   | 5210                 | 93.33                     | -                       | -                                 | 85.1                            | 31.64                         | 10.05                  | 33.46                      | 215                  | 318                     | P             | H             |
|                                       | *   | 5210                 | 83.74                     | -                       | -                                 | 75.51                           | 31.64                         | 10.05                  | 33.46                      | 215                  | 318                     | A             | H             |
|                                       |   | 5430.32              | 53.71                     | -20.29                  | 74                                | 45.3                            | 31.62                         | 10.23                  | 33.44                      | 215                  | 318                     | P             | H             |
|                                       |   | 5459.44              | 41.62                     | -12.38                  | 54                                | 33.04                           | 31.74                         | 10.27                  | 33.43                      | 215                  | 318                     | A             | H             |
|                                       |   | 5144.56              | 56.81                     | -17.19                  | 74                                | 48.4                            | 31.91                         | 9.97                   | 33.47                      | 300                  | 166                     | P             | V             |
|                                       |   | 5145.08              | 43.32                     | -10.68                  | 54                                | 34.91                           | 31.91                         | 9.97                   | 33.47                      | 300                  | 166                     | A             | V             |
|                                       | *   | 5210                 | 102.09                    | -                       | -                                 | 93.86                           | 31.64                         | 10.05                  | 33.46                      | 300                  | 166                     | P             | V             |
|                                       | *   | 5210                 | 92.24                     | -                       | -                                 | 84.01                           | 31.64                         | 10.05                  | 33.46                      | 300                  | 166                     | A             | V             |
|                                       |   | 5446                 | 53.9                      | -20.1                   | 74                                | 45.41                           | 31.68                         | 10.25                  | 33.44                      | 300                  | 166                     | P             | V             |
|                                       |   | 5416.88              | 42.14                     | -11.86                  | 54                                | 33.79                           | 31.57                         | 10.22                  | 33.44                      | 300                  | 166                     | A             | V             |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |               |               |



## Band 1 5150~5250MHz

## WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI                                  | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|---------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 42<br>5210MHz |   | 10420                | 46.12                     | -22.08                  | 68.2                              | 50.89                           | 39.7                          | 15.65                  | 60.12                      | 100                  | 0                       | P                     | H             |
|                                       |   | 15630                | 45.42                     | -28.58                  | 74                                | 45.92                           | 37.8                          | 19.62                  | 57.92                      | 100                  | 0                       | P                     | H             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                       |   | 10420                | 46.27                     | -21.93                  | 68.2                              | 51.04                           | 39.7                          | 15.65                  | 60.12                      | 100                  | 0                       | P                     | V             |
|                                       |   | 15630                | 45.34                     | -28.66                  | 74                                | 45.84                           | 37.8                          | 19.62                  | 57.92                      | 100                  | 0                       | P                     | V             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 2 - 5250~5350MHz

## WIFI 802.11a (Band Edge @ 3m)

| WIFI                        | Note | Frequency | Level  | Over   | Limit | Read   | Antenna | Path  | Preamp | Ant | Table | Peak    | Pol.    |
|-----------------------------|------|-----------|--------|--------|-------|--------|---------|-------|--------|-----|-------|---------|---------|
|                             |      |           |        |        |       |        |         |       |        |     |       | Avg.    |         |
|                             |      |           |        |        |       |        |         |       |        |     |       | ( P/A ) | ( H/V ) |
| 802.11a<br>CH 52<br>5260MHz |      | 5111.52   | 53.59  | -20.41 | 74    | 45.15  | 31.98   | 9.93  | 33.47  | 177 | 316   | P       | H       |
|                             |      | 5146.88   | 40.91  | -13.09 | 54    | 32.49  | 31.91   | 9.98  | 33.47  | 177 | 316   | A       | H       |
|                             | *    | 5260      | 102.36 | -      | -     | 94.34  | 31.38   | 10.09 | 33.45  | 177 | 316   | P       | H       |
|                             | *    | 5260      | 92.29  | -      | -     | 84.27  | 31.38   | 10.09 | 33.45  | 177 | 316   | A       | H       |
|                             |      | 5448.48   | 54.22  | -19.78 | 74    | 45.72  | 31.69   | 10.25 | 33.44  | 177 | 316   | P       | H       |
|                             |      | 5434.32   | 40.81  | -13.19 | 54    | 32.37  | 31.64   | 10.24 | 33.44  | 177 | 316   | A       | H       |
|                             |      | 5089.08   | 54.33  | -19.67 | 74    | 45.93  | 31.96   | 9.91  | 33.47  | 267 | 171   | P       | V       |
|                             |      | 5134.98   | 41.03  | -12.97 | 54    | 32.61  | 31.93   | 9.96  | 33.47  | 267 | 171   | A       | V       |
|                             | *    | 5260      | 112.02 | -      | -     | 104    | 31.38   | 10.09 | 33.45  | 267 | 171   | P       | V       |
|                             | *    | 5260      | 102.15 | -      | -     | 94.13  | 31.38   | 10.09 | 33.45  | 267 | 171   | A       | V       |
|                             |      | 5379.6    | 55.37  | -18.63 | 74    | 47.21  | 31.42   | 10.18 | 33.44  | 267 | 171   | P       | V       |
|                             |      | 5376.24   | 41.34  | -12.66 | 54    | 33.2   | 31.4    | 10.18 | 33.44  | 267 | 171   | A       | V       |
| 802.11a<br>CH 60<br>5300MHz |      | 5139.4    | 52.82  | -21.18 | 74    | 44.4   | 31.92   | 9.97  | 33.47  | 287 | 323   | P       | H       |
|                             |      | 5148.92   | 40.81  | -13.19 | 54    | 32.4   | 31.9    | 9.98  | 33.47  | 287 | 323   | A       | H       |
|                             | *    | 5300      | 103.52 | -      | -     | 95.55  | 31.3    | 10.12 | 33.45  | 287 | 323   | P       | H       |
|                             | *    | 5300      | 93.72  | -      | -     | 85.75  | 31.3    | 10.12 | 33.45  | 287 | 323   | A       | H       |
|                             |      | 5353.44   | 54.19  | -19.81 | 74    | 46.16  | 31.31   | 10.16 | 33.44  | 287 | 323   | P       | H       |
|                             |      | 5450.88   | 40.96  | -13.04 | 54    | 32.43  | 31.7    | 10.26 | 33.43  | 287 | 323   | A       | H       |
|                             |      | 5139.06   | 54.42  | -19.58 | 74    | 46     | 31.92   | 9.97  | 33.47  | 300 | 162   | P       | V       |
|                             |      | 5147.22   | 40.86  | -13.14 | 54    | 32.44  | 31.91   | 9.98  | 33.47  | 300 | 162   | A       | V       |
|                             | *    | 5300      | 112.02 | -      | -     | 104.05 | 31.3    | 10.12 | 33.45  | 300 | 162   | P       | V       |
|                             | *    | 5300      | 101.9  | -      | -     | 93.93  | 31.3    | 10.12 | 33.45  | 300 | 162   | A       | V       |
|                             |      | 5350.8    | 59.86  | -14.14 | 74    | 51.84  | 31.3    | 10.16 | 33.44  | 300 | 162   | P       | V       |
|                             |      | 5351.52   | 43.05  | -10.95 | 54    | 35.02  | 31.31   | 10.16 | 33.44  | 300 | 162   | A       | V       |



|                                      |   |         |        |        |    |        |       |       |       |     |     |   |   |
|--------------------------------------|---|---------|--------|--------|----|--------|-------|-------|-------|-----|-----|---|---|
| <b>802.11a<br/>CH 64<br/>5320MHz</b> | *   | 5320    | 101.32 | -      | -  | 93.33  | 31.3  | 10.14 | 33.45 | 296 | 324 | P | H |
|                                      | *   | 5320    | 91.26  | -      | -  | 83.27  | 31.3  | 10.14 | 33.45 | 296 | 324 | A | H |
|                                      |   | 5435.2  | 54.14  | -19.86 | 74 | 45.7   | 31.64 | 10.24 | 33.44 | 296 | 324 | P | H |
|                                      |   | 5365.28 | 40.95  | -13.05 | 54 | 32.86  | 31.36 | 10.17 | 33.44 | 296 | 324 | A | H |
|                                      |   |         |        |        |    |        |       |       |       |     |     |   | H |
|                                      |   |         |        |        |    |        |       |       |       |     |     |   | H |
|                                      | *   | 5320    | 111.82 | -      | -  | 103.83 | 31.3  | 10.14 | 33.45 | 300 | 164 | P | V |
|                                      | *   | 5320    | 101.52 | -      | -  | 93.53  | 31.3  | 10.14 | 33.45 | 300 | 164 | A | V |
|                                      |   | 5352.8  | 60.49  | -13.51 | 74 | 52.46  | 31.31 | 10.16 | 33.44 | 300 | 164 | P | V |
|                                      |   | 5350.08 | 45.9   | -8.1   | 54 | 37.88  | 31.3  | 10.16 | 33.44 | 300 | 164 | A | V |
|                                      |   |         |        |        |    |        |       |       |       |     |     |   | V |
|                                      |   |         |        |        |    |        |       |       |       |     |     |   | V |
| <b>Remark</b>                        | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |        |       |       |       |     |     |   |   |



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

| WIFI                                | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11a<br><br>CH 52<br><br>5260MHz |   | 10520                | 48.03                     | -20.17                  | 68.2                              | 52.91                           | 39.74                         | 15.73                  | 60.35                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15780                | 65.32                     | -8.68                   | 74                                | 65.71                           | 37.64                         | 19.68                  | 57.71                      | 197                  | 332                     | P                     | H             |
|                                     |   | 15780                | 49.93                     | -4.07                   | 54                                | 50.32                           | 37.64                         | 19.68                  | 57.71                      | 197                  | 332                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10520                | 48.23                     | -19.97                  | 68.2                              | 53.11                           | 39.74                         | 15.73                  | 60.35                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15780                | 62.45                     | -11.55                  | 74                                | 62.84                           | 37.64                         | 19.68                  | 57.71                      | 320                  | 310                     | P                     | V             |
|                                     |   | 15780                | 47.52                     | -6.48                   | 54                                | 47.91                           | 37.64                         | 19.68                  | 57.71                      | 320                  | 310                     | A                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11a<br><br>CH 60<br><br>5300MHz |   | 10600                | 46.88                     | -27.12                  | 74                                | 51.72                           | 39.9                          | 15.8                   | 60.54                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15900                | 66.15                     | -7.85                   | 74                                | 66.66                           | 37.3                          | 19.73                  | 57.54                      | 200                  | 311                     | P                     | H             |
|                                     |   | 15900                | 50.97                     | -3.03                   | 54                                | 51.48                           | 37.3                          | 19.73                  | 57.54                      | 200                  | 311                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10600                | 46.43                     | -27.57                  | 74                                | 51.27                           | 39.9                          | 15.8                   | 60.54                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15900                | 61.66                     | -12.34                  | 74                                | 62.17                           | 37.3                          | 19.73                  | 57.54                      | 338                  | 309                     | P                     | V             |
|                                     |   | 15900                | 46.54                     | -7.46                   | 54                                | 47.05                           | 37.3                          | 19.73                  | 57.54                      | 338                  | 309                     | A                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11a<br><br>CH 64<br><br>5320MHz |   | 10640                | 46.08                     | -27.92                  | 74                                | 51.04                           | 39.86                         | 15.82                  | 60.64                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15960                | 59.7                      | -14.3                   | 74                                | 60.06                           | 37.36                         | 19.74                  | 57.46                      | 201                  | 331                     | P                     | H             |
|                                     |   | 15960                | 45.22                     | -8.78                   | 54                                | 45.58                           | 37.36                         | 19.74                  | 57.46                      | 201                  | 331                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10640                | 46.37                     | -27.63                  | 74                                | 51.33                           | 39.86                         | 15.82                  | 60.64                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15960                | 53.68                     | -20.32                  | 74                                | 54.04                           | 37.36                         | 19.74                  | 57.46                      | 300                  | 314                     | P                     | V             |
|                                     |   | 15960                | 39.34                     | -14.66                  | 54                                | 39.7                            | 37.36                         | 19.74                  | 57.46                      | 300                  | 314                     | A                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.<br>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<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>(P/A) | Avg.<br>(H/V) |
|-------------------------------------|------|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|---------------|---------------|
| 802.11n<br>HT20<br>CH 52<br>5260MHz |      | 5128.18              | 53.34                     | -20.66                  | 74                                | 44.92                           | 31.94                         | 9.95                   | 33.47                      | 177                  | 317                     | P             | H             |
|                                     |      | 5138.04              | 41.09                     | -12.91                  | 54                                | 32.67                           | 31.92                         | 9.97                   | 33.47                      | 177                  | 317                     | A             | H             |
|                                     | *    | 5260                 | 102.73                    | -                       | -                                 | 94.71                           | 31.38                         | 10.09                  | 33.45                      | 177                  | 317                     | P             | H             |
|                                     | *    | 5260                 | 91.94                     | -                       | -                                 | 83.92                           | 31.38                         | 10.09                  | 33.45                      | 177                  | 317                     | A             | H             |
|                                     |      | 5400                 | 53.8                      | -20.2                   | 74                                | 45.54                           | 31.5                          | 10.2                   | 33.44                      | 177                  | 317                     | P             | H             |
|                                     |      | 5401.68              | 40.85                     | -13.15                  | 54                                | 32.58                           | 31.51                         | 10.2                   | 33.44                      | 177                  | 317                     | A             | H             |
|                                     |      | 5149.26              | 54.8                      | -19.2                   | 74                                | 46.39                           | 31.9                          | 9.98                   | 33.47                      | 280                  | 171                     | P             | V             |
|                                     |      | 5148.58              | 41.02                     | -12.98                  | 54                                | 32.61                           | 31.9                          | 9.98                   | 33.47                      | 280                  | 171                     | A             | V             |
|                                     | *    | 5260                 | 112.26                    | -                       | -                                 | 104.24                          | 31.38                         | 10.09                  | 33.45                      | 280                  | 171                     | P             | V             |
|                                     | *    | 5260                 | 101.95                    | -                       | -                                 | 93.93                           | 31.38                         | 10.09                  | 33.45                      | 280                  | 171                     | A             | V             |
| 802.11n<br>HT20<br>CH 60<br>5300MHz |      | 5351.52              | 55.73                     | -18.27                  | 74                                | 47.7                            | 31.31                         | 10.16                  | 33.44                      | 280                  | 171                     | P             | V             |
|                                     |      | 5455.44              | 41.17                     | -12.83                  | 54                                | 32.62                           | 31.72                         | 10.26                  | 33.43                      | 280                  | 171                     | A             | V             |
|                                     |      | 5067.32              | 53.2                      | -20.8                   | 74                                | 44.92                           | 31.87                         | 9.88                   | 33.47                      | 290                  | 323                     | P             | H             |
|                                     |      | 5132.26              | 40.75                     | -13.25                  | 54                                | 32.32                           | 31.94                         | 9.96                   | 33.47                      | 290                  | 323                     | A             | H             |
|                                     | *    | 5300                 | 103.51                    | -                       | -                                 | 95.54                           | 31.3                          | 10.12                  | 33.45                      | 290                  | 323                     | P             | H             |
|                                     | *    | 5300                 | 92.94                     | -                       | -                                 | 84.97                           | 31.3                          | 10.12                  | 33.45                      | 290                  | 323                     | A             | H             |
|                                     |      | 5405.76              | 53.79                     | -20.21                  | 74                                | 45.5                            | 31.52                         | 10.21                  | 33.44                      | 290                  | 323                     | P             | H             |
|                                     |      | 5439.12              | 40.99                     | -13.01                  | 54                                | 32.53                           | 31.66                         | 10.24                  | 33.44                      | 290                  | 323                     | A             | H             |
|                                     |      | 5126.82              | 53.84                     | -20.16                  | 74                                | 45.41                           | 31.95                         | 9.95                   | 33.47                      | 308                  | 167                     | P             | V             |
|                                     |      | 5136                 | 41.02                     | -12.98                  | 54                                | 32.6                            | 31.93                         | 9.96                   | 33.47                      | 308                  | 167                     | A             | V             |
|                                     | *    | 5300                 | 112                       | -                       | -                                 | 104.03                          | 31.3                          | 10.12                  | 33.45                      | 308                  | 167                     | P             | V             |
|                                     | *    | 5300                 | 101.44                    | -                       | -                                 | 93.47                           | 31.3                          | 10.12                  | 33.45                      | 308                  | 167                     | A             | V             |
|                                     |      | 5350.32              | 62.94                     | -11.06                  | 74                                | 54.92                           | 31.3                          | 10.16                  | 33.44                      | 308                  | 167                     | P             | V             |
|                                     |      | 5356.56              | 43.03                     | -10.97                  | 54                                | 34.97                           | 31.33                         | 10.17                  | 33.44                      | 308                  | 167                     | A             | V             |



## FCC RADIO TEST REPORT

Report No. : FR8N0846D

|                                     |   |         |        |        |    |        |       |       |       |     |     |   |   |
|-------------------------------------|---|---------|--------|--------|----|--------|-------|-------|-------|-----|-----|---|---|
| 802.11n<br>HT20<br>CH 64<br>5320MHz | *   | 5320    | 101.34 | -      | -  | 93.35  | 31.3  | 10.14 | 33.45 | 307 | 323 | P | H |
|                                     | *   | 5320    | 91.08  | -      | -  | 83.09  | 31.3  | 10.14 | 33.45 | 307 | 323 | A | H |
|                                     |   | 5431.52 | 54.11  | -19.89 | 74 | 45.69  | 31.63 | 10.23 | 33.44 | 307 | 323 | P | H |
|                                     |   | 5409.44 | 41.04  | -12.96 | 54 | 32.73  | 31.54 | 10.21 | 33.44 | 307 | 323 | A | H |
|                                     |   |         |        |        |    |        |       |       |       |     |     |   | H |
|                                     |   |         |        |        |    |        |       |       |       |     |     |   | H |
|                                     | *   | 5320    | 112.1  | -      | -  | 104.11 | 31.3  | 10.14 | 33.45 | 324 | 166 | P | V |
|                                     | *   | 5320    | 101.42 | -      | -  | 93.43  | 31.3  | 10.14 | 33.45 | 324 | 166 | A | V |
|                                     |   | 5352.8  | 64.42  | -9.58  | 74 | 56.39  | 31.31 | 10.16 | 33.44 | 324 | 166 | P | V |
|                                     |   | 5350.08 | 45.64  | -8.36  | 54 | 37.62  | 31.3  | 10.16 | 33.44 | 324 | 166 | A | V |
|                                     |   |         |        |        |    |        |       |       |       |     |     |   | V |
|                                     |   |         |        |        |    |        |       |       |       |     |     |   | V |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |        |       |       |       |     |     |   |   |



## Band 2 5250~5350MHz

## WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI                                | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT20<br>CH 52<br>5260MHz |   | 10520                | 47.45                     | -20.75                  | 68.2                              | 52.33                           | 39.74                         | 15.73                  | 60.35                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15780                | 67.73                     | -6.27                   | 74                                | 68.12                           | 37.64                         | 19.68                  | 57.71                      | 200                  | 328                     | P                     | H             |
|                                     |   | 15780                | 50.77                     | -3.23                   | 54                                | 51.16                           | 37.64                         | 19.68                  | 57.71                      | 200                  | 328                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10520                | 46.84                     | -21.36                  | 68.2                              | 51.72                           | 39.74                         | 15.73                  | 60.35                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15780                | 65.06                     | -8.94                   | 74                                | 65.45                           | 37.64                         | 19.68                  | 57.71                      | 320                  | 310                     | P                     | V             |
|                                     |   | 15780                | 48.43                     | -5.57                   | 54                                | 48.82                           | 37.64                         | 19.68                  | 57.71                      | 320                  | 310                     | A                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 60<br>5300MHz |   | 10600                | 46.95                     | -27.05                  | 74                                | 51.79                           | 39.9                          | 15.8                   | 60.54                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15900                | 66.93                     | -7.07                   | 74                                | 67.44                           | 37.3                          | 19.73                  | 57.54                      | 198                  | 332                     | P                     | H             |
|                                     |   | 15900                | 49.84                     | -4.16                   | 54                                | 50.35                           | 37.3                          | 19.73                  | 57.54                      | 198                  | 332                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10600                | 47.17                     | -26.83                  | 74                                | 52.01                           | 39.9                          | 15.8                   | 60.54                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15900                | 62.23                     | -11.77                  | 74                                | 62.74                           | 37.3                          | 19.73                  | 57.54                      | 259                  | 309                     | P                     | V             |
|                                     |   | 15900                | 45.36                     | -8.64                   | 54                                | 45.87                           | 37.3                          | 19.73                  | 57.54                      | 259                  | 309                     | A                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 64<br>5320MHz |   | 10640                | 48.12                     | -25.88                  | 74                                | 53.08                           | 39.86                         | 15.82                  | 60.64                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15960                | 61.38                     | -12.62                  | 74                                | 61.74                           | 37.36                         | 19.74                  | 57.46                      | 198                  | 311                     | P                     | H             |
|                                     |   | 15960                | 44.28                     | -9.72                   | 54                                | 44.64                           | 37.36                         | 19.74                  | 57.46                      | 198                  | 311                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10640                | 47.69                     | -26.31                  | 74                                | 52.65                           | 39.86                         | 15.82                  | 60.64                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15960                | 56.03                     | -17.97                  | 74                                | 56.39                           | 37.36                         | 19.74                  | 57.46                      | 100                  | 297                     | P                     | V             |
|                                     |   | 15960                | 40.64                     | -13.36                  | 54                                | 41                              | 37.36                         | 19.74                  | 57.46                      | 100                  | 297                     | A                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.<br>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<br>( MHz )                                      | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A)(H/V) | Pol. |
|-------------------------------------|------|---|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|----------------------------|------|
| 802.11n<br>HT40<br>CH 54<br>5270MHz |      | 5107.1  | 53.62                     | -20.38                  | 74                                | 45.17                           | 31.99                         | 9.93                   | 33.47                      | 191                  | 8                       | P                          | H    |
|                                     |      | 5138.38   | 41.61                     | -12.39                  | 54                                | 33.19                           | 31.92                         | 9.97                   | 33.47                      | 191                  | 8                       | A                          | H    |
|                                     | *    | 5270  | 100.04                    | -                       | -                                 | 92.03                           | 31.36                         | 10.1                   | 33.45                      | 191                  | 8                       | P                          | H    |
|                                     | *    | 5270  | 89.83                     | -                       | -                                 | 81.82                           | 31.36                         | 10.1                   | 33.45                      | 191                  | 8                       | A                          | H    |
|                                     |      | 5361.12   | 53.81                     | -20.19                  | 74                                | 45.74                           | 31.34                         | 10.17                  | 33.44                      | 191                  | 8                       | P                          | H    |
|                                     |      | 5453.04   | 41.58                     | -12.42                  | 54                                | 33.04                           | 31.71                         | 10.26                  | 33.43                      | 191                  | 8                       | A                          | H    |
|                                     |      | 5149.94   | 53.33                     | -20.67                  | 74                                | 44.92                           | 31.9                          | 9.98                   | 33.47                      | 279                  | 170                     | P                          | V    |
|                                     |      | 5143.48   | 41.89                     | -12.11                  | 54                                | 33.48                           | 31.91                         | 9.97                   | 33.47                      | 279                  | 170                     | A                          | V    |
|                                     | *    | 5270  | 109.82                    | -                       | -                                 | 101.81                          | 31.36                         | 10.1                   | 33.45                      | 279                  | 170                     | P                          | V    |
|                                     | *    | 5270  | 99.62                     | -                       | -                                 | 91.61                           | 31.36                         | 10.1                   | 33.45                      | 279                  | 170                     | A                          | V    |
| 802.11n<br>HT40<br>CH 62<br>5310MHz |      | 5352.48   | 58.83                     | -15.17                  | 74                                | 50.8                            | 31.31                         | 10.16                  | 33.44                      | 279                  | 170                     | P                          | V    |
|                                     |      | 5350.32   | 44.06                     | -9.94                   | 54                                | 36.04                           | 31.3                          | 10.16                  | 33.44                      | 279                  | 170                     | A                          | V    |
|                                     |      | 5106.42   | 53.71                     | -20.29                  | 74                                | 45.26                           | 31.99                         | 9.93                   | 33.47                      | 292                  | 323                     | P                          | H    |
|                                     |      | 5149.26   | 41.86                     | -12.14                  | 54                                | 33.45                           | 31.9                          | 9.98                   | 33.47                      | 292                  | 323                     | A                          | H    |
|                                     | *    | 5310  | 96.47                     | -                       | -                                 | 88.49                           | 31.3                          | 10.13                  | 33.45                      | 292                  | 323                     | P                          | H    |
|                                     | *    | 5310  | 86.16                     | -                       | -                                 | 78.18                           | 31.3                          | 10.13                  | 33.45                      | 292                  | 323                     | A                          | H    |
|                                     |      | 5353.44   | 53.81                     | -20.19                  | 74                                | 45.78                           | 31.31                         | 10.16                  | 33.44                      | 292                  | 323                     | P                          | H    |
|                                     |      | 5400.72   | 41.67                     | -12.33                  | 54                                | 33.41                           | 31.5                          | 10.2                   | 33.44                      | 292                  | 323                     | A                          | H    |
|                                     |      | 5103.7  | 54.23                     | -19.77                  | 74                                | 45.79                           | 31.99                         | 9.92                   | 33.47                      | 300                  | 165                     | P                          | V    |
|                                     |      | 5148.58   | 41.71                     | -12.29                  | 54                                | 33.3                            | 31.9                          | 9.98                   | 33.47                      | 300                  | 165                     | A                          | V    |
| Remark                              | 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<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT40<br>CH 54<br>5270MHz |   | 10540                | 47.58                     | -20.62                  | 68.2                              | 52.45                           | 39.78                         | 15.75                  | 60.4                       | 100                  | 0                       | P                     | H             |
|                                     |   | 15810                | 59.64                     | -14.36                  | 74                                | 60.05                           | 37.57                         | 19.69                  | 57.67                      | 195                  | 331                     | P                     | H             |
|                                     |   | 15810                | 47.77                     | -6.23                   | 54                                | 48.18                           | 37.57                         | 19.69                  | 57.67                      | 195                  | 331                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10540                | 48.31                     | -19.89                  | 68.2                              | 53.18                           | 39.78                         | 15.75                  | 60.4                       | 100                  | 0                       | P                     | V             |
|                                     |   | 15810                | 54.49                     | -19.51                  | 74                                | 54.9                            | 37.57                         | 19.69                  | 57.67                      | 100                  | 326                     | P                     | V             |
|                                     |   | 15810                | 42.87                     | -11.13                  | 54                                | 43.28                           | 37.57                         | 19.69                  | 57.67                      | 100                  | 326                     | A                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT40<br>CH 62<br>5310MHz |   | 10620                | 46.09                     | -27.91                  | 74                                | 51                              | 39.88                         | 15.8                   | 60.59                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15930                | 45.91                     | -28.09                  | 74                                | 46.34                           | 37.33                         | 19.74                  | 57.5                       | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10620                | 46.78                     | -27.22                  | 74                                | 51.69                           | 39.88                         | 15.8                   | 60.59                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15930                | 46.12                     | -27.88                  | 74                                | 46.55                           | 37.33                         | 19.74                  | 57.5                       | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.<br>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<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A)(H/V) |
|---------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|----------------------------|
| 802.11ac<br>VHT80<br>CH 58<br>5290MHz |   | 5110.16              | 52.49                     | -21.51                  | 74                                | 44.05                           | 31.98                         | 9.93                   | 33.47                      | 291                  | 324                     | P H                        |
|                                       |   | 5149.26              | 41.44                     | -12.56                  | 54                                | 33.03                           | 31.9                          | 9.98                   | 33.47                      | 291                  | 324                     | A H                        |
|                                       | *   | 5290                 | 89.86                     | -                       | -                                 | 81.88                           | 31.32                         | 10.11                  | 33.45                      | 291                  | 324                     | P H                        |
|                                       | *   | 5290                 | 80.29                     | -                       | -                                 | 72.31                           | 31.32                         | 10.11                  | 33.45                      | 291                  | 324                     | A H                        |
|                                       |   | 5386.8               | 53.74                     | -20.26                  | 74                                | 45.54                           | 31.45                         | 10.19                  | 33.44                      | 291                  | 324                     | P H                        |
|                                       |   | 5459.28              | 41.5                      | -12.5                   | 54                                | 32.92                           | 31.74                         | 10.27                  | 33.43                      | 291                  | 324                     | A H                        |
|                                       |   | 5087.72              | 53.85                     | -20.15                  | 74                                | 45.46                           | 31.95                         | 9.91                   | 33.47                      | 317                  | 167                     | P V                        |
|                                       |   | 5138.38              | 41.42                     | -12.58                  | 54                                | 33                              | 31.92                         | 9.97                   | 33.47                      | 317                  | 167                     | A V                        |
|                                       | *   | 5290                 | 100.55                    | -                       | -                                 | 92.57                           | 31.32                         | 10.11                  | 33.45                      | 317                  | 167                     | P V                        |
|                                       | *   | 5290                 | 90.88                     | -                       | -                                 | 82.9                            | 31.32                         | 10.11                  | 33.45                      | 317                  | 167                     | A V                        |
|                                       |   | 5358.48              | 58.5                      | -15.5                   | 74                                | 50.44                           | 31.33                         | 10.17                  | 33.44                      | 317                  | 167                     | P V                        |
|                                       |   | 5350.32              | 45.62                     | -8.38                   | 54                                | 37.6                            | 31.3                          | 10.16                  | 33.44                      | 317                  | 167                     | A V                        |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            |



## Band 2 5250~5350MHz

## WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI                                  | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|---------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 58<br>5290MHz |   | 10580                | 47.7                      | -20.5                   | 68.2                              | 52.55                           | 39.86                         | 15.78                  | 60.49                      | 100                  | 0                       | P                     | H             |
|                                       |   | 15870                | 45.74                     | -28.26                  | 74                                | 46.22                           | 37.39                         | 19.71                  | 57.58                      | 100                  | 0                       | P                     | H             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                       |   | 10580                | 48.18                     | -20.02                  | 68.2                              | 53.03                           | 39.86                         | 15.78                  | 60.49                      | 100                  | 0                       | P                     | V             |
|                                       |   | 15870                | 46.83                     | -27.17                  | 74                                | 47.31                           | 37.39                         | 19.71                  | 57.58                      | 100                  | 0                       | P                     | V             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                                | 1. No other spurious found.<br>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 | Path  | Preamp | Ant | Table | Peak   | Pol.   |
|------------------------------|------|-----------|--------|--------|-------|--------|---------|-------|--------|-----|-------|--------|--------|
|                              |      |           |        |        |       |        |         |       |        |     |       | Limit  | Line   |
|                              |      |           |        |        |       |        |         |       |        |     |       | Factor | Factor |
| 802.11a<br>CH 100<br>5500MHz |      | 5393.52   | 54.49  | -19.51 | 74    | 46.27  | 31.47   | 10.19 | 33.44  | 288 | 313   | P      | H      |
|                              |      | 5463.76   | 53.92  | -14.28 | 68.2  | 45.32  | 31.76   | 10.27 | 33.43  | 288 | 313   | P      | H      |
|                              |      | 5436.72   | 40.65  | -13.35 | 54    | 32.2   | 31.65   | 10.24 | 33.44  | 288 | 313   | A      | H      |
|                              | *    | 5500      | 101.16 | -      | -     | 92.38  | 31.9    | 10.31 | 33.43  | 288 | 313   | P      | H      |
|                              | *    | 5500      | 91.35  | -      | -     | 82.57  | 31.9    | 10.31 | 33.43  | 288 | 313   | A      | H      |
|                              |      |           |        |        |       |        |         |       |        |     |       |        | H      |
|                              |      | 5447.12   | 65.61  | -8.39  | 74    | 57.11  | 31.69   | 10.25 | 33.44  | 304 | 163   | P      | V      |
|                              |      | 5462.8    | 64.2   | -4     | 68.2  | 55.61  | 31.75   | 10.27 | 33.43  | 304 | 163   | P      | V      |
|                              |      | 5442.32   | 42.73  | -11.27 | 54    | 34.25  | 31.67   | 10.25 | 33.44  | 304 | 163   | A      | V      |
|                              | *    | 5500      | 110.24 | -      | -     | 101.46 | 31.9    | 10.31 | 33.43  | 304 | 163   | P      | V      |
|                              | *    | 5500      | 100    | -      | -     | 91.22  | 31.9    | 10.31 | 33.43  | 304 | 163   | A      | V      |
|                              |      |           |        |        |       |        |         |       |        |     |       |        | V      |
| 802.11a<br>CH 116<br>5580MHz |      | 5436.88   | 54.36  | -19.64 | 74    | 45.91  | 31.65   | 10.24 | 33.44  | 293 | 313   | P      | H      |
|                              |      | 5461.12   | 53.16  | -15.04 | 68.2  | 44.58  | 31.74   | 10.27 | 33.43  | 293 | 313   | P      | H      |
|                              |      | 5451.76   | 41.02  | -12.98 | 54    | 32.48  | 31.71   | 10.26 | 33.43  | 293 | 313   | A      | H      |
|                              | *    | 5580      | 101.6  | -      | -     | 92.84  | 31.8    | 10.4  | 33.44  | 293 | 313   | P      | H      |
|                              | *    | 5580      | 90.83  | -      | -     | 82.07  | 31.8    | 10.4  | 33.44  | 293 | 313   | A      | H      |
|                              |      | 5744.525  | 58.37  | -9.83  | 68.2  | 49.2   | 32.09   | 10.54 | 33.46  | 293 | 313   | P      | H      |
|                              |      | 5431.84   | 54.51  | -19.49 | 74    | 46.08  | 31.63   | 10.24 | 33.44  | 267 | 161   | P      | V      |
|                              |      | 5464      | 54.09  | -14.11 | 68.2  | 45.49  | 31.76   | 10.27 | 33.43  | 267 | 161   | P      | V      |
|                              |      | 5446.48   | 41.12  | -12.88 | 54    | 32.62  | 31.69   | 10.25 | 33.44  | 267 | 161   | A      | V      |
|                              | *    | 5580      | 111.07 | -      | -     | 102.31 | 31.8    | 10.4  | 33.44  | 267 | 161   | P      | V      |
|                              | *    | 5580      | 101.2  | -      | -     | 92.44  | 31.8    | 10.4  | 33.44  | 267 | 161   | A      | V      |
|                              |      | 5743.58   | 59.26  | -8.94  | 68.2  | 50.1   | 32.09   | 10.53 | 33.46  | 267 | 161   | P      | V      |



|                                       |   |         |        |        |      |       |       |       |       |     |     |   |   |
|---------------------------------------|---|---------|--------|--------|------|-------|-------|-------|-------|-----|-----|---|---|
| <b>802.11a<br/>CH 140<br/>5700MHz</b> | *   | 5700    | 96.06  | -      | -    | 87.02 | 32    | 10.5  | 33.46 | 297 | 322 | P | H |
|                                       | *   | 5700    | 86.03  | -      | -    | 76.99 | 32    | 10.5  | 33.46 | 297 | 322 | A | H |
|                                       |   | 5745.56 | 57.53  | -10.67 | 68.2 | 48.36 | 32.09 | 10.54 | 33.46 | 297 | 322 | P | H |
|                                       |   |         |        |        |      |       |       |       |       |     |     |   | H |
|                                       |   |         |        |        |      |       |       |       |       |     |     |   | H |
|                                       |   |         |        |        |      |       |       |       |       |     |     |   | H |
|                                       | *   | 5700    | 105.31 | -      | -    | 96.27 | 32    | 10.5  | 33.46 | 255 | 163 | P | V |
|                                       | *   | 5700    | 95.26  | -      | -    | 86.22 | 32    | 10.5  | 33.46 | 255 | 163 | A | V |
|                                       |   | 5738.76 | 62.82  | -5.38  | 68.2 | 53.67 | 32.08 | 10.53 | 33.46 | 255 | 163 | P | V |
|                                       |   |         |        |        |      |       |       |       |       |     |     |   | V |
|                                       |   |         |        |        |      |       |       |       |       |     |     |   | V |
|                                       |   |         |        |        |      |       |       |       |       |     |     |   | V |
| <b>Remark</b>                         | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |      |       |       |       |       |     |     |   |   |



## Band 3 - 5470~5725MHz

## WIFI 802.11a (Harmonic @ 3m)

| WIFI                         | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11a<br>CH 100<br>5500MHz |   | 11000                | 46.56                     | -27.44                  | 74                                | 51.76                           | 40.2                          | 16.1                   | 61.5                       | 100                  | 0                       | P                     | H             |
|                              |   | 16500                | 56.18                     | -12.02                  | 68.2                              | 53.9                            | 39.4                          | 20.18                  | 57.3                       | 100                  | 0                       | P                     | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   | 11000                | 47.31                     | -26.69                  | 74                                | 52.51                           | 40.2                          | 16.1                   | 61.5                       | 100                  | 0                       | P                     | V             |
|                              |   | 16500                | 50.76                     | -17.44                  | 68.2                              | 48.48                           | 39.4                          | 20.18                  | 57.3                       | 100                  | 0                       | P                     | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11a<br>CH 116<br>5580MHz |   | 11160                | 46.21                     | -27.79                  | 74                                | 51.89                           | 39.62                         | 16.23                  | 61.53                      | 100                  | 0                       | P                     | H             |
|                              |   | 16740                | 64.95                     | -3.25                   | 68.2                              | 61                              | 40.4                          | 20.37                  | 56.82                      | 190                  | 321                     | P                     | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   | 11160                | 46.32                     | -27.68                  | 74                                | 52                              | 39.62                         | 16.23                  | 61.53                      | 100                  | 0                       | P                     | V             |
|                              |   | 16740                | 54.28                     | -13.92                  | 68.2                              | 50.33                           | 40.4                          | 20.37                  | 56.82                      | 100                  | 0                       | P                     | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11a<br>CH 140<br>5700MHz |   | 11400                | 46.36                     | -27.64                  | 74                                | 51.92                           | 39.6                          | 16.42                  | 61.58                      | 100                  | 0                       | P                     | H             |
|                              |   | 17100                | 48.76                     | -19.44                  | 68.2                              | 43.67                           | 40.5                          | 20.67                  | 56.08                      | 100                  | 0                       | P                     | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   | 11400                | 46.13                     | -27.87                  | 74                                | 51.69                           | 39.6                          | 16.42                  | 61.58                      | 100                  | 0                       | P                     | V             |
|                              |   | 17100                | 49.68                     | -18.52                  | 68.2                              | 44.59                           | 40.5                          | 20.67                  | 56.08                      | 100                  | 0                       | P                     | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                       | 1. No other spurious found.<br>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<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A)(H/V) | Pol. |
|--------------------------------------|------|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|----------------------------|------|
| 802.11n<br>HT20<br>CH 100<br>5500MHz |      | 5433.36              | 54.31                     | -19.69                  | 74                                | 45.88                           | 31.63                         | 10.24                  | 33.44                      | 289                  | 311                     | P                          | H    |
|                                      |      | 5463.76              | 52.95                     | -15.25                  | 68.2                              | 44.35                           | 31.76                         | 10.27                  | 33.43                      | 289                  | 311                     | P                          | H    |
|                                      |      | 5428.4               | 40.59                     | -13.41                  | 54                                | 32.19                           | 31.61                         | 10.23                  | 33.44                      | 289                  | 311                     | A                          | H    |
|                                      | *    | 5500                 | 100.51                    | -                       | -                                 | 91.73                           | 31.9                          | 10.31                  | 33.43                      | 289                  | 311                     | P                          | H    |
|                                      | *    | 5500                 | 89.6                      | -                       | -                                 | 80.82                           | 31.9                          | 10.31                  | 33.43                      | 289                  | 311                     | A                          | H    |
|                                      |      |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            | H    |
|                                      |      | 5459.76              | 59.74                     | -14.26                  | 74                                | 51.16                           | 31.74                         | 10.27                  | 33.43                      | 271                  | 163                     | P                          | V    |
|                                      |      | 5466.32              | 61.19                     | -7.01                   | 68.2                              | 52.58                           | 31.77                         | 10.27                  | 33.43                      | 271                  | 163                     | P                          | V    |
|                                      |      | 5453.2               | 41.83                     | -12.17                  | 54                                | 33.29                           | 31.71                         | 10.26                  | 33.43                      | 271                  | 163                     | A                          | V    |
|                                      | *    | 5500                 | 109.27                    | -                       | -                                 | 100.49                          | 31.9                          | 10.31                  | 33.43                      | 271                  | 163                     | P                          | V    |
|                                      | *    | 5500                 | 98.33                     | -                       | -                                 | 89.55                           | 31.9                          | 10.31                  | 33.43                      | 271                  | 163                     | A                          | V    |
|                                      |      |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            | V    |
| 802.11n<br>HT20<br>CH 116<br>5580MHz |      | 5397.04              | 54.85                     | -19.15                  | 74                                | 46.6                            | 31.49                         | 10.2                   | 33.44                      | 286                  | 314                     | P                          | H    |
|                                      |      | 5466.64              | 53.62                     | -14.58                  | 68.2                              | 45.01                           | 31.77                         | 10.27                  | 33.43                      | 286                  | 314                     | P                          | H    |
|                                      |      | 5427.28              | 40.76                     | -13.24                  | 54                                | 32.36                           | 31.61                         | 10.23                  | 33.44                      | 286                  | 314                     | A                          | H    |
|                                      | *    | 5580                 | 99.72                     | -                       | -                                 | 90.96                           | 31.8                          | 10.4                   | 33.44                      | 286                  | 314                     | P                          | H    |
|                                      | *    | 5580                 | 89.23                     | -                       | -                                 | 80.47                           | 31.8                          | 10.4                   | 33.44                      | 286                  | 314                     | A                          | H    |
|                                      |      | 5744.21              | 59.39                     | -8.81                   | 68.2                              | 50.22                           | 32.09                         | 10.54                  | 33.46                      | 286                  | 314                     | P                          | H    |
|                                      |      | 5374.96              | 54.16                     | -19.84                  | 74                                | 46.02                           | 31.4                          | 10.18                  | 33.44                      | 340                  | 164                     | P                          | V    |
|                                      |      | 5463.28              | 53.68                     | -14.52                  | 68.2                              | 45.09                           | 31.75                         | 10.27                  | 33.43                      | 340                  | 164                     | P                          | V    |
|                                      |      | 5452.96              | 41.13                     | -12.87                  | 54                                | 32.59                           | 31.71                         | 10.26                  | 33.43                      | 340                  | 164                     | A                          | V    |
|                                      | *    | 5580                 | 110.72                    | -                       | -                                 | 101.96                          | 31.8                          | 10.4                   | 33.44                      | 340                  | 164                     | P                          | V    |
|                                      | *    | 5580                 | 99.97                     | -                       | -                                 | 91.21                           | 31.8                          | 10.4                   | 33.44                      | 340                  | 164                     | A                          | V    |
|                                      |      | 5744.21              | 59.41                     | -8.79                   | 68.2                              | 50.24                           | 32.09                         | 10.54                  | 33.46                      | 340                  | 164                     | P                          | V    |



|                                      |   |         |        |        |      |       |       |       |       |     |     |   |   |
|--------------------------------------|---|---------|--------|--------|------|-------|-------|-------|-------|-----|-----|---|---|
| 802.11n<br>HT20<br>CH 140<br>5700MHz | *   | 5700    | 97.82  | -      | -    | 88.78 | 32    | 10.5  | 33.46 | 296 | 323 | P | H |
|                                      | *   | 5700    | 87.42  | -      | -    | 78.38 | 32    | 10.5  | 33.46 | 296 | 323 | A | H |
|                                      |   | 5744.2  | 56.49  | -11.71 | 68.2 | 47.32 | 32.09 | 10.54 | 33.46 | 296 | 323 | P | H |
|                                      |   |         |        |        |      |       |       |       |       |     |     |   | H |
|                                      |   |         |        |        |      |       |       |       |       |     |     |   | H |
|                                      |   |         |        |        |      |       |       |       |       |     |     |   | H |
|                                      |   |         |        |        |      |       |       |       |       |     |     |   | V |
|                                      | *   | 5700    | 107.38 | -      | -    | 98.34 | 32    | 10.5  | 33.46 | 287 | 161 | P | V |
|                                      | *   | 5700    | 97.08  | -      | -    | 88.04 | 32    | 10.5  | 33.46 | 287 | 161 | A | V |
|                                      |   | 5727.16 | 62.39  | -5.81  | 68.2 | 53.28 | 32.05 | 10.52 | 33.46 | 287 | 161 | P | V |
|                                      |   |         |        |        |      |       |       |       |       |     |     |   | V |
|                                      |   |         |        |        |      |       |       |       |       |     |     |   | V |
|                                      |   |         |        |        |      |       |       |       |       |     |     |   | V |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |      |       |       |       |       |     |     |   |   |



## Band 3 - 5470~5725MHz

## WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI                                 | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT20<br>CH 100<br>5500MHz |   | 11000                | 47.58                     | -26.42                  | 74                                | 52.78                           | 40.2                          | 16.1                   | 61.5                       | 100                  | 0                       | P                     | H             |
|                                      |   | 16500                | 54.39                     | -13.81                  | 68.2                              | 52.11                           | 39.4                          | 20.18                  | 57.3                       | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11000                | 46.65                     | -27.35                  | 74                                | 51.85                           | 40.2                          | 16.1                   | 61.5                       | 100                  | 0                       | P                     | V             |
|                                      |   | 16500                | 48.47                     | -19.73                  | 68.2                              | 46.19                           | 39.4                          | 20.18                  | 57.3                       | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 116<br>5580MHz |   | 11160                | 46.94                     | -27.06                  | 74                                | 52.62                           | 39.62                         | 16.23                  | 61.53                      | 100                  | 0                       | P                     | H             |
|                                      |   | 16740                | 64.12                     | -4.08                   | 68.2                              | 60.17                           | 40.4                          | 20.37                  | 56.82                      | 198                  | 322                     | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11160                | 46.26                     | -27.74                  | 74                                | 51.94                           | 39.62                         | 16.23                  | 61.53                      | 100                  | 0                       | P                     | V             |
|                                      |   | 16740                | 53.37                     | -14.83                  | 68.2                              | 49.42                           | 40.4                          | 20.37                  | 56.82                      | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 140<br>5700MHz |   | 11400                | 46.44                     | -27.56                  | 74                                | 52                              | 39.6                          | 16.42                  | 61.58                      | 100                  | 0                       | P                     | H             |
|                                      |   | 17100                | 49.3                      | -18.9                   | 68.2                              | 44.21                           | 40.5                          | 20.67                  | 56.08                      | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11400                | 46.16                     | -27.84                  | 74                                | 51.72                           | 39.6                          | 16.42                  | 61.58                      | 100                  | 0                       | P                     | V             |
|                                      |   | 17100                | 48.54                     | -19.66                  | 68.2                              | 43.45                           | 40.5                          | 20.67                  | 56.08                      | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                               | 1. No other spurious found.<br>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<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A)(H/V) | Pol. |
|--------------------------------------|------|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|----------------------------|------|
| 802.11n<br>HT40<br>CH 102<br>5510MHz |      | 5439.28              | 52.85                     | -21.15                  | 74                                | 44.39                           | 31.66                         | 10.24                  | 33.44                      | 295                  | 313                     | P                          | H    |
|                                      |      | 5467.6               | 52.53                     | -15.67                  | 68.2                              | 43.92                           | 31.77                         | 10.27                  | 33.43                      | 295                  | 313                     | P                          | H    |
|                                      |      | 5459.68              | 41.47                     | -12.53                  | 54                                | 32.89                           | 31.74                         | 10.27                  | 33.43                      | 295                  | 313                     | A                          | H    |
|                                      | *    | 5510                 | 95.96                     | -                       | -                                 | 87.19                           | 31.88                         | 10.32                  | 33.43                      | 295                  | 313                     | P                          | H    |
|                                      | *    | 5510                 | 86.3                      | -                       | -                                 | 77.53                           | 31.88                         | 10.32                  | 33.43                      | 295                  | 313                     | A                          | H    |
|                                      |      | 5746.415             | 55.22                     | -12.98                  | 68.2                              | 46.05                           | 32.09                         | 10.54                  | 33.46                      | 295                  | 313                     | P                          | H    |
|                                      |      | 5455.6               | 60.8                      | -13.2                   | 74                                | 52.25                           | 31.72                         | 10.26                  | 33.43                      | 294                  | 174                     | P                          | V    |
|                                      |      | 5470                 | 61.35                     | -6.85                   | 68.2                              | 52.72                           | 31.78                         | 10.28                  | 33.43                      | 294                  | 174                     | P                          | V    |
|                                      |      | 5457.04              | 43.83                     | -10.17                  | 54                                | 35.27                           | 31.73                         | 10.26                  | 33.43                      | 294                  | 174                     | A                          | V    |
|                                      | *    | 5510                 | 106.03                    | -                       | -                                 | 97.26                           | 31.88                         | 10.32                  | 33.43                      | 294                  | 174                     | P                          | V    |
|                                      | *    | 5510                 | 95.25                     | -                       | -                                 | 86.48                           | 31.88                         | 10.32                  | 33.43                      | 294                  | 174                     | A                          | V    |
|                                      |      | 5760.59              | 55.08                     | -13.12                  | 68.2                              | 45.88                           | 32.12                         | 10.55                  | 33.47                      | 294                  | 174                     | P                          | V    |
| 802.11n<br>HT40<br>CH 110<br>5550MHz |      | 5420.8               | 52.91                     | -21.09                  | 74                                | 44.55                           | 31.58                         | 10.22                  | 33.44                      | 300                  | 320                     | P                          | H    |
|                                      |      | 5469.28              | 53.42                     | -14.78                  | 68.2                              | 44.79                           | 31.78                         | 10.28                  | 33.43                      | 300                  | 320                     | P                          | H    |
|                                      |      | 5442.4               | 41.16                     | -12.84                  | 54                                | 32.68                           | 31.67                         | 10.25                  | 33.44                      | 300                  | 320                     | A                          | H    |
|                                      | *    | 5550                 | 99.28                     | -                       | -                                 | 90.56                           | 31.8                          | 10.36                  | 33.44                      | 300                  | 320                     | P                          | H    |
|                                      | *    | 5550                 | 89.65                     | -                       | -                                 | 80.93                           | 31.8                          | 10.36                  | 33.44                      | 300                  | 320                     | A                          | H    |
|                                      |      | 5744.84              | 56.73                     | -11.47                  | 68.2                              | 47.56                           | 32.09                         | 10.54                  | 33.46                      | 300                  | 320                     | P                          | H    |
|                                      |      | 5457.52              | 56.81                     | -17.19                  | 74                                | 48.25                           | 31.73                         | 10.26                  | 33.43                      | 282                  | 167                     | P                          | V    |
|                                      |      | 5469.52              | 56.81                     | -11.39                  | 68.2                              | 48.18                           | 31.78                         | 10.28                  | 33.43                      | 282                  | 167                     | P                          | V    |
|                                      |      | 5457.28              | 43.57                     | -10.43                  | 54                                | 35.01                           | 31.73                         | 10.26                  | 33.43                      | 282                  | 167                     | A                          | V    |
|                                      | *    | 5550                 | 110.09                    | -                       | -                                 | 101.37                          | 31.8                          | 10.36                  | 33.44                      | 282                  | 167                     | P                          | V    |
|                                      | *    | 5550                 | 99.96                     | -                       | -                                 | 91.24                           | 31.8                          | 10.36                  | 33.44                      | 282                  | 167                     | A                          | V    |
|                                      |      | 5750.195             | 56.36                     | -11.84                  | 68.2                              | 47.19                           | 32.1                          | 10.54                  | 33.47                      | 282                  | 167                     | P                          | V    |



|                                      |   |          |        |        |      |       |       |       |       |     |     |   |   |
|--------------------------------------|---|----------|--------|--------|------|-------|-------|-------|-------|-----|-----|---|---|
| 802.11n<br>HT40<br>CH 134<br>5670MHz |   | 5431.9   | 53.77  | -20.23 | 74   | 45.34 | 31.63 | 10.24 | 33.44 | 305 | 318 | P | H |
|                                      |   | 5460.25  | 52.68  | -15.52 | 68.2 | 44.1  | 31.74 | 10.27 | 33.43 | 305 | 318 | P | H |
|                                      |   | 5453.25  | 41.16  | -12.84 | 54   | 32.62 | 31.71 | 10.26 | 33.43 | 305 | 318 | A | H |
|                                      | *   | 5670     | 98.89  | -      | -    | 90.04 | 31.82 | 10.48 | 33.45 | 305 | 318 | P | H |
|                                      | *   | 5670     | 88.85  | -      | -    | 80    | 31.82 | 10.48 | 33.45 | 305 | 318 | A | H |
|                                      |   | 5745.925 | 55.83  | -12.37 | 68.2 | 46.66 | 32.09 | 10.54 | 33.46 | 305 | 318 | P | H |
|                                      |   | 5454.3   | 53.29  | -20.71 | 74   | 44.74 | 31.72 | 10.26 | 33.43 | 295 | 153 | P | V |
|                                      |   | 5467.25  | 52.02  | -16.18 | 68.2 | 43.41 | 31.77 | 10.27 | 33.43 | 295 | 153 | P | V |
|                                      |   | 5445.2   | 41.15  | -12.85 | 54   | 32.66 | 31.68 | 10.25 | 33.44 | 295 | 153 | A | V |
|                                      | *   | 5670     | 108.25 | -      | -    | 99.4  | 31.82 | 10.48 | 33.45 | 295 | 153 | P | V |
|                                      | *   | 5670     | 98.3   | -      | -    | 89.45 | 31.82 | 10.48 | 33.45 | 295 | 153 | A | V |
|                                      |   | 5735.25  | 63.37  | -4.83  | 68.2 | 54.23 | 32.07 | 10.53 | 33.46 | 295 | 153 | P | V |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |          |        |        |      |       |       |       |       |     |     |   |   |



## Band 3 - 5470~5725MHz

## WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI                                 | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT40<br>CH 102<br>5510MHz |   | 11020                | 46.93                     | -27.07                  | 74                                | 52.19                           | 40.12                         | 16.12                  | 61.5                       | 100                  | 0                       | P                     | H             |
|                                      |   | 16530                | 46.82                     | -21.38                  | 68.2                              | 44.46                           | 39.4                          | 20.2                   | 57.24                      | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11020                | 46.81                     | -27.19                  | 74                                | 52.07                           | 40.12                         | 16.12                  | 61.5                       | 100                  | 0                       | P                     | V             |
|                                      |   | 16530                | 47.99                     | -20.21                  | 68.2                              | 45.63                           | 39.4                          | 20.2                   | 57.24                      | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT40<br>CH 110<br>5550MHz |   | 11100                | 46.4                      | -27.6                   | 74                                | 51.94                           | 39.8                          | 16.18                  | 61.52                      | 100                  | 0                       | P                     | H             |
|                                      |   | 16650                | 65.02                     | -3.18                   | 68.2                              | 61.92                           | 39.8                          | 20.3                   | 57                         | 196                  | 322                     | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11100                | 46.41                     | -27.59                  | 74                                | 51.95                           | 39.8                          | 16.18                  | 61.52                      | 100                  | 0                       | P                     | V             |
|                                      |   | 16650                | 55.68                     | -12.52                  | 68.2                              | 52.58                           | 39.8                          | 20.3                   | 57                         | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT40<br>CH 134<br>5670MHz |   | 11340                | 47.15                     | -26.85                  | 74                                | 52.8                            | 39.54                         | 16.38                  | 61.57                      | 100                  | 0                       | P                     | H             |
|                                      |   | 17010                | 49.16                     | -19.04                  | 68.2                              | 44.35                           | 40.5                          | 20.59                  | 56.28                      | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11340                | 46.37                     | -27.63                  | 74                                | 52.02                           | 39.54                         | 16.38                  | 61.57                      | 100                  | 0                       | P                     | V             |
|                                      |   | 17010                | 49                        | -19.2                   | 68.2                              | 44.19                           | 40.5                          | 20.59                  | 56.28                      | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                               | 1. No other spurious found.<br>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<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>(P/A) | Avg.<br>(H/V) |
|--|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|---------------|---------------|
| 802.11ac<br>VHT80<br>CH 106<br>5530MHz |   | 5389.6               | 53.07                     | -20.93                  | 74                                | 44.86                           | 31.46                         | 10.19                  | 33.44                      | 300                  | 317                     | P             | H             |
|  |   | 5459.92              | 53.03                     | -20.97                  | 74                                | 44.45                           | 31.74                         | 10.27                  | 33.43                      | 300                  | 317                     | P             | H             |
|  |   | 5456.8               | 41.33                     | -12.67                  | 54                                | 32.77                           | 31.73                         | 10.26                  | 33.43                      | 300                  | 317                     | A             | H             |
|  | *   | 5530                 | 91.42                     | -                       | -                                 | 82.67                           | 31.84                         | 10.34                  | 33.43                      | 300                  | 317                     | P             | H             |
|  | *   | 5530                 | 81.89                     | -                       | -                                 | 73.14                           | 31.84                         | 10.34                  | 33.43                      | 300                  | 317                     | A             | H             |
|  |   | 5740.745             | 53.72                     | -14.48                  | 68.2                              | 44.57                           | 32.08                         | 10.53                  | 33.46                      | 300                  | 317                     | P             | H             |
|  |   | 5453.92              | 57.56                     | -16.44                  | 74                                | 49.01                           | 31.72                         | 10.26                  | 33.43                      | 316                  | 167                     | P             | V             |
|  |   | 5463.04              | 59.1                      | -9.1                    | 68.2                              | 50.51                           | 31.75                         | 10.27                  | 33.43                      | 316                  | 167                     | P             | V             |
|  |   | 5459.68              | 43.42                     | -10.58                  | 54                                | 34.84                           | 31.74                         | 10.27                  | 33.43                      | 316                  | 167                     | A             | V             |
|  | *   | 5530                 | 102.11                    | -                       | -                                 | 93.36                           | 31.84                         | 10.34                  | 33.43                      | 316                  | 167                     | P             | V             |
|  | *   | 5530                 | 92.43                     | -                       | -                                 | 83.68                           | 31.84                         | 10.34                  | 33.43                      | 316                  | 167                     | A             | V             |
|  |   | 5746.1               | 56.38                     | -11.82                  | 68.2                              | 47.21                           | 32.09                         | 10.54                  | 33.46                      | 316                  | 167                     | P             | V             |
| 802.11ac<br>VHT80<br>CH 122<br>5610MHz |   | 5418.88              | 53.07                     | -20.93                  | 74                                | 44.71                           | 31.58                         | 10.22                  | 33.44                      | 253                  | 313                     | P             | H             |
|  |   | 5470                 | 53.34                     | -14.86                  | 68.2                              | 44.71                           | 31.78                         | 10.28                  | 33.43                      | 253                  | 313                     | P             | H             |
|  |   | 5457.28              | 41.47                     | -12.53                  | 54                                | 32.91                           | 31.73                         | 10.26                  | 33.43                      | 253                  | 313                     | A             | H             |
|  | *   | 5610                 | 98.42                     | -                       | -                                 | 89.66                           | 31.78                         | 10.43                  | 33.45                      | 253                  | 313                     | P             | H             |
|  | *   | 5610                 | 88.13                     | -                       | -                                 | 79.37                           | 31.78                         | 10.43                  | 33.45                      | 253                  | 313                     | A             | H             |
|  |   | 5744.21              | 54.58                     | -13.62                  | 68.2                              | 45.41                           | 32.09                         | 10.54                  | 33.46                      | 253                  | 313                     | P             | H             |
|  |   | 5455.12              | 55.35                     | -18.65                  | 74                                | 46.8                            | 31.72                         | 10.26                  | 33.43                      | 297                  | 155                     | P             | V             |
|  |   | 5465.68              | 55.89                     | -12.31                  | 68.2                              | 47.29                           | 31.76                         | 10.27                  | 33.43                      | 297                  | 155                     | P             | V             |
|  |   | 5459.92              | 43.52                     | -10.48                  | 54                                | 34.94                           | 31.74                         | 10.27                  | 33.43                      | 297                  | 155                     | A             | V             |
|  | *   | 5610                 | 105.07                    | -                       | -                                 | 96.31                           | 31.78                         | 10.43                  | 33.45                      | 297                  | 155                     | P             | V             |
|  | *   | 5610                 | 95.29                     | -                       | -                                 | 86.53                           | 31.78                         | 10.43                  | 33.45                      | 297                  | 155                     | A             | V             |
| Remark                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |               |               |



## Band 3 5470~5725MHz

## WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI                                   | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 106<br>5530MHz |   | 11060                | 45.89                     | -28.11                  | 74                                | 51.29                           | 39.96                         | 16.15                  | 61.51                      | 100                  | 0                       | P                     | H             |
|  |   | 16590                | 47.47                     | -20.73                  | 68.2                              | 44.94                           | 39.4                          | 20.25                  | 57.12                      | 100                  | 0                       | P                     | H             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|  |   | 11060                | 46.24                     | -27.76                  | 74                                | 51.64                           | 39.96                         | 16.15                  | 61.51                      | 100                  | 0                       | P                     | V             |
|  |   | 16590                | 48                        | -20.2                   | 68.2                              | 45.47                           | 39.4                          | 20.25                  | 57.12                      | 100                  | 0                       | P                     | V             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11ac<br>VHT80<br>CH 122<br>5610MHz |   | 11220                | 46.82                     | -27.18                  | 74                                | 52.58                           | 39.5                          | 16.28                  | 61.54                      | 100                  | 0                       | P                     | H             |
|  |   | 16830                | 51.79                     | -16.41                  | 68.2                              | 47.46                           | 40.52                         | 20.45                  | 56.64                      | 100                  | 0                       | P                     | H             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|  |   | 11220                | 47.28                     | -26.72                  | 74                                | 53.04                           | 39.5                          | 16.28                  | 61.54                      | 100                  | 0                       | P                     | V             |
|  |   | 16830                | 49.23                     | -18.97                  | 68.2                              | 44.9                            | 40.52                         | 20.45                  | 56.64                      | 100                  | 0                       | P                     | V             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 3 - Straddle Channel

## WIFI 802.11a (Band Edge @ 3m)

| WIFI                         | Note  | Frequency | Level  | Over   | Limit | Read   | Antenna | Path  | Preamp | Ant | Table | Peak   | Pol. |        |     |     |
|------------------------------|---|-----------|--------|--------|-------|--------|---------|-------|--------|-----|-------|--------|------|--------|-----|-----|
|                              |   |           |        |        |       |        |         |       |        |     |       | Limit  | Line | Level  |     |     |
|                              |   |           |        |        |       |        |         |       |        |     |       | Factor | Loss | Factor | Pos | Pos |
| 802.11a<br>CH 144<br>5720MHz |   | 5449.45   | 53.19  | -20.81 | 74    | 44.68  | 31.7    | 10.25 | 33.44  | 289 | 313   | P      | H    |        |     |     |
|                              |   | 5470.12   | 52.02  | -97.98 | 150   | 43.39  | 31.78   | 10.28 | 33.43  | 289 | 313   | P      | H    |        |     |     |
|                              |   | 5444.77   | 40.65  | -13.35 | 54    | 32.16  | 31.68   | 10.25 | 33.44  | 289 | 313   | A      | H    |        |     |     |
|                              | *   | 5720      | 102.83 | -      | -     | 93.73  | 32.04   | 10.52 | 33.46  | 289 | 313   | P      | H    |        |     |     |
|                              | *   | 5720      | 93.05  | -      | -     | 83.95  | 32.04   | 10.52 | 33.46  | 289 | 313   | A      | H    |        |     |     |
|                              |   | 5920.5    | 56.37  | -11.83 | 68.2  | 46.71  | 32.48   | 10.67 | 33.49  | 289 | 313   | P      | H    |        |     |     |
|                              |   | 5393.68   | 53.76  | -20.24 | 74    | 45.54  | 31.47   | 10.19 | 33.44  | 283 | 163   | P      | V    |        |     |     |
|                              |   | 5465.44   | 53.35  | -14.85 | 68.2  | 44.75  | 31.76   | 10.27 | 33.43  | 283 | 163   | P      | V    |        |     |     |
|                              |   | 5452.57   | 40.62  | -13.38 | 54    | 32.08  | 31.71   | 10.26 | 33.43  | 283 | 163   | A      | V    |        |     |     |
|                              | *   | 5720      | 112.77 | -      | -     | 103.67 | 32.04   | 10.52 | 33.46  | 283 | 163   | P      | V    |        |     |     |
|                              | *   | 5720      | 102.5  | -      | -     | 93.4   | 32.04   | 10.52 | 33.46  | 283 | 163   | A      | V    |        |     |     |
|                              |   | 5924.5    | 57.21  | -10.99 | 68.2  | 47.53  | 32.5    | 10.67 | 33.49  | 283 | 163   | P      | V    |        |     |     |
| Remark                       | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |        |        |       |        |         |       |        |     |       |        |      |        |     |     |



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

| WIFI                         | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11a<br>CH 144<br>5720MHz |   | 11440                | 46.24                     | -27.76                  | 74                                | 51.7                            | 39.68                         | 16.45                  | 61.59                      | 100                  | 0                       | P                     | H             |
|                              |   | 17160                | 52.38                     | -15.82                  | 68.2                              | 47.06                           | 40.56                         | 20.71                  | 55.95                      | 100                  | 0                       | P                     | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   | 11440                | 45.99                     | -28.01                  | 74                                | 51.45                           | 39.68                         | 16.45                  | 61.59                      | 100                  | 0                       | P                     | V             |
|                              |   | 17160                | 50.14                     | -18.06                  | 68.2                              | 44.82                           | 40.56                         | 20.71                  | 55.95                      | 100                  | 0                       | P                     | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                       | 1. No other spurious found.<br>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<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>(P/A) | Avg.<br>(H/V) |
|--------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|---------------|---------------|
| 802.11n<br>HT20<br>CH 144<br>5720MHz |   | 5459.98              | 53.44                     | -20.56                  | 74                                | 44.86                           | 31.74                         | 10.27                  | 33.43                      | 282                  | 314                     | P             | H             |
|                                      |   | 5459.98              | 53.44                     | -20.56                  | 74                                | 44.86                           | 31.74                         | 10.27                  | 33.43                      | 282                  | 314                     | P             | H             |
|                                      |   | 5449.06              | 40.59                     | -13.41                  | 54                                | 32.08                           | 31.7                          | 10.25                  | 33.44                      | 282                  | 314                     | A             | H             |
|                                      | *   | 5720                 | 100.15                    | -                       | -                                 | 91.05                           | 32.04                         | 10.52                  | 33.46                      | 282                  | 314                     | P             | H             |
|                                      | *   | 5720                 | 90.02                     | -                       | -                                 | 80.92                           | 32.04                         | 10.52                  | 33.46                      | 282                  | 314                     | A             | H             |
|                                      |   | 5875                 | 56.42                     | -11.78                  | 68.2                              | 46.91                           | 32.35                         | 10.64                  | 33.48                      | 282                  | 314                     | P             | H             |
|                                      |   | 5434.63              | 53.92                     | -20.08                  | 74                                | 45.48                           | 31.64                         | 10.24                  | 33.44                      | 326                  | 168                     | P             | V             |
|                                      |   | 5469.73              | 53.45                     | -14.75                  | 68.2                              | 44.82                           | 31.78                         | 10.28                  | 33.43                      | 326                  | 168                     | P             | V             |
|                                      |   | 5440.87              | 40.76                     | -13.24                  | 54                                | 32.3                            | 31.66                         | 10.24                  | 33.44                      | 326                  | 168                     | A             | V             |
|                                      | *   | 5720                 | 110.8                     | -                       | -                                 | 101.7                           | 32.04                         | 10.52                  | 33.46                      | 326                  | 168                     | P             | V             |
|                                      | *   | 5720                 | 100.27                    | -                       | -                                 | 91.17                           | 32.04                         | 10.52                  | 33.46                      | 326                  | 168                     | A             | V             |
|                                      |   | 5925                 | 56.36                     | -11.84                  | 68.2                              | 46.68                           | 32.5                          | 10.67                  | 33.49                      | 326                  | 168                     | P             | V             |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |               |               |



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

| WIFI                                 | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT20<br>CH 144<br>5720MHz |   | 11440                | 46.44                     | -27.56                  | 74                                | 51.9                            | 39.68                         | 16.45                  | 61.59                      | 100                  | 0                       | P                     | H             |
|                                      |   | 17160                | 48.99                     | -19.21                  | 68.2                              | 43.67                           | 40.56                         | 20.71                  | 55.95                      | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11440                | 46.09                     | -27.91                  | 74                                | 51.55                           | 39.68                         | 16.45                  | 61.59                      | 100                  | 0                       | P                     | V             |
|                                      |   | 17160                | 48.78                     | -19.42                  | 68.2                              | 43.46                           | 40.56                         | 20.71                  | 55.95                      | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 3 - Straddle Channel

## WIFI 802.11n HT40 (Band Edge @ 3m)

| WIFI                                 | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>(P/A) | Avg.<br>(H/V) |
|--------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|---------------|---------------|
| 802.11n<br>HT40<br>CH 142<br>5710MHz |   | 5451.4               | 53.24                     | -20.76                  | 74                                | 44.7                            | 31.71                         | 10.26                  | 33.43                      | 281                  | 312                     | P             | H             |
|                                      |   | 5460.37              | 52.13                     | -16.07                  | 68.2                              | 43.55                           | 31.74                         | 10.27                  | 33.43                      | 281                  | 312                     | P             | H             |
|                                      |   | 5444.38              | 40.99                     | -13.01                  | 54                                | 32.5                            | 31.68                         | 10.25                  | 33.44                      | 281                  | 312                     | A             | H             |
|                                      | *   | 5710                 | 100.45                    | -                       | -                                 | 91.38                           | 32.02                         | 10.51                  | 33.46                      | 281                  | 312                     | P             | H             |
|                                      | *   | 5710                 | 90.78                     | -                       | -                                 | 81.71                           | 32.02                         | 10.51                  | 33.46                      | 281                  | 312                     | A             | H             |
|                                      |   | 5920.25              | 55.34                     | -12.86                  | 68.2                              | 45.68                           | 32.48                         | 10.67                  | 33.49                      | 281                  | 312                     | P             | H             |
|                                      |   | 5432.29              | 53.43                     | -20.57                  | 74                                | 45                              | 31.63                         | 10.24                  | 33.44                      | 299                  | 170                     | P             | V             |
|                                      |   | 5460.37              | 52.87                     | -15.33                  | 68.2                              | 44.29                           | 31.74                         | 10.27                  | 33.43                      | 299                  | 170                     | P             | V             |
|                                      |   | 5458.42              | 41.26                     | -12.74                  | 54                                | 32.7                            | 31.73                         | 10.26                  | 33.43                      | 299                  | 170                     | A             | V             |
|                                      | *   | 5710                 | 109.87                    | -                       | -                                 | 100.8                           | 32.02                         | 10.51                  | 33.46                      | 299                  | 170                     | P             | V             |
|                                      | *   | 5710                 | 98.84                     | -                       | -                                 | 89.77                           | 32.02                         | 10.51                  | 33.46                      | 299                  | 170                     | A             | V             |
|                                      |   | 5857                 | 55.73                     | -12.47                  | 68.2                              | 46.28                           | 32.31                         | 10.62                  | 33.48                      | 299                  | 170                     | P             | V             |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |               |               |



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

| WIFI                                 | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT40<br>CH 142<br>5710MHz |   | 11420                | 45.75                     | -28.25                  | 74                                | 51.26                           | 39.64                         | 16.43                  | 61.58                      | 100                  | 0                       | P                     | H             |
|                                      |   | 17131                | 49.88                     | -18.32                  | 68.2                              | 44.66                           | 40.53                         | 20.7                   | 56.01                      | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11420                | 46.47                     | -27.53                  | 74                                | 51.98                           | 39.64                         | 16.43                  | 61.58                      | 100                  | 0                       | P                     | V             |
|                                      |   | 17130                | 49.94                     | -18.26                  | 68.2                              | 44.72                           | 40.53                         | 20.7                   | 56.01                      | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 3 - Straddle Channel

## WIFI 802.11ac VHT80 (Band Edge @ 3m)

| WIFI                                   | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>(P/A) | Avg.<br>(H/V) |
|--|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|---------------|---------------|
| 802.11ac<br>VHT80<br>CH 138<br>5690MHz |   | 5442.04              | 53.05                     | -20.95                  | 74                                | 44.57                           | 31.67                         | 10.25                  | 33.44                      | 264                  | 316                     | P             | H             |
|  |   | 5469.34              | 51.73                     | -16.47                  | 68.2                              | 43.1                            | 31.78                         | 10.28                  | 33.43                      | 264                  | 316                     | P             | H             |
|  |   | 5438.53              | 41.04                     | -12.96                  | 54                                | 32.59                           | 31.65                         | 10.24                  | 33.44                      | 264                  | 316                     | A             | H             |
|  | *   | 5690                 | 96.68                     | -                       | -                                 | 87.71                           | 31.94                         | 10.49                  | 33.46                      | 264                  | 316                     | P             | H             |
|  | *   | 5690                 | 86.3                      | -                       | -                                 | 77.33                           | 31.94                         | 10.49                  | 33.46                      | 264                  | 316                     | A             | H             |
|  |   | 5860.5               | 55.29                     | -12.91                  | 68.2                              | 45.82                           | 32.32                         | 10.63                  | 33.48                      | 264                  | 316                     | P             | H             |
|  |   | 5435.02              | 53.29                     | -20.71                  | 74                                | 44.85                           | 31.64                         | 10.24                  | 33.44                      | 289                  | 170                     | P             | V             |
|  |   | 5469.34              | 53.77                     | -14.43                  | 68.2                              | 45.14                           | 31.78                         | 10.28                  | 33.43                      | 289                  | 170                     | P             | V             |
|  |   | 5458.42              | 41.86                     | -12.14                  | 54                                | 33.3                            | 31.73                         | 10.26                  | 33.43                      | 289                  | 170                     | A             | V             |
|  | *   | 5690                 | 107.25                    | -                       | -                                 | 98.28                           | 31.94                         | 10.49                  | 33.46                      | 289                  | 170                     | P             | V             |
|  | *   | 5690                 | 96.54                     | -                       | -                                 | 87.57                           | 31.94                         | 10.49                  | 33.46                      | 289                  | 170                     | A             | V             |
|  |   | 5852.75              | 58.9                      | -9.3                    | 68.2                              | 49.45                           | 32.31                         | 10.62                  | 33.48                      | 289                  | 170                     | P             | V             |
| Remark                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |               |               |



## Band 3 - Straddle Channel

WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI                                   | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 138<br>5690MHz |   | 11380                | 46.04                     | -27.96                  | 74                                | 51.63                           | 39.58                         | 16.41                  | 61.58                      | 100                  | 0                       | P                     | H             |
|  |   | 17070                | 50.26                     | -17.94                  | 68.2                              | 45.27                           | 40.5                          | 20.64                  | 56.15                      | 100                  | 0                       | P                     | H             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|  |   | 11380                | 47.41                     | -26.59                  | 74                                | 53                              | 39.58                         | 16.41                  | 61.58                      | 100                  | 0                       | P                     | V             |
|  |   | 17070                | 50.4                      | -17.8                   | 68.2                              | 45.41                           | 40.5                          | 20.64                  | 56.15                      | 100                  | 0                       | P                     | V             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Emission below 1GHz

## WIFI 802.11n HT40 (LF @ 3m)

| WIFI                  | Note   | Frequency  | Level | Over   | Limit | Read  | Antenna | Path | Preamp | Ant | Table | Peak    | Pol.    |
|-----------------------|--------|--|-------|--------|-------|-------|---------|------|--------|-----|-------|---------|---------|
|                       |        |  |       |        |       |       |         |      |        |     |       | Avg.    |         |
|                       |        |  |       |        |       |       |         |      |        |     |       | ( P/A ) | ( H/V ) |
| 802.11n<br>HT40<br>LF |        | 61.04  | 33.88 | -6.12  | 40    | 51.42 | 11.77   | 1.15 | 30.46  | 100 | 0     | P       | H       |
|                       |        | 102.75   | 33.84 | -9.66  | 43.5  | 46.67 | 16.14   | 1.46 | 30.43  | -   | -     | P       | H       |
|                       |        | 174.53   | 34.18 | -9.32  | 43.5  | 47.41 | 15.21   | 1.91 | 30.35  | -   | -     | P       | H       |
|                       |        | 756.53   | 32.46 | -13.54 | 46    | 30.08 | 27.92   | 3.85 | 29.39  | -   | -     | P       | H       |
|                       |        | 846.74   | 33.54 | -12.46 | 46    | 29.92 | 28.75   | 4.09 | 29.22  | -   | -     | P       | H       |
|                       |        | 886.51   | 38.68 | -7.32  | 46    | 34.65 | 28.97   | 4.22 | 29.16  | -   | -     | P       | H       |
|                       |        |  |       |        |       |       |         |      |        |     |       |         | H       |
|                       |        |  |       |        |       |       |         |      |        |     |       |         | H       |
|                       |        |  |       |        |       |       |         |      |        |     |       |         | H       |
|                       |        |  |       |        |       |       |         |      |        |     |       |         | H       |
|                       |        |  |       |        |       |       |         |      |        |     |       |         | H       |
|                       |        |  |       |        |       |       |         |      |        |     |       |         | V       |
|                       |        | 61.04  | 33.66 | -6.34  | 40    | 51.2  | 11.77   | 1.15 | 30.46  | 100 | 0     | P       | V       |
|                       |        | 120.21   | 35.91 | -7.59  | 43.5  | 47.62 | 17.23   | 1.47 | 30.41  | -   | -     | P       | V       |
|                       |        | 164.83   | 35.16 | -8.34  | 43.5  | 47.73 | 15.94   | 1.85 | 30.36  | -   | -     | P       | V       |
|                       |        | 792.42   | 32.72 | -13.28 | 46    | 30.11 | 27.96   | 3.96 | 29.31  | -   | -     | P       | V       |
|                       |        | 886.51   | 39.44 | -6.56  | 46    | 35.41 | 28.97   | 4.22 | 29.16  | -   | -     | P       | V       |
|                       |        | 950.53   | 35.96 | -10.04 | 46    | 29.91 | 30.6    | 4.44 | 28.99  | -   | -     | P       | V       |
|                       |        |  |       |        |       |       |         |      |        |     |       |         | V       |
|                       |        |  |       |        |       |       |         |      |        |     |       |         | V       |
|                       |        |  |       |        |       |       |         |      |        |     |       |         | V       |
|                       |        |  |       |        |       |       |         |      |        |     |       |         | V       |
|                       |        |  |       |        |       |       |         |      |        |     |       |         | V       |
|                       | Remark | 1. No other spurious found.<br>2. All results are PASS against limit line. |       |        |       |       |         |      |        |     |       |         |         |



## MIMO &lt;Chain 1+2&gt;

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

| WIFI                        | Note | Frequency | Level            | Over Limit | Limit Line       | Read Level     | Antenna Factor | Path Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg.  | Pol. |
|-----------------------------|------|-----------|------------------|------------|------------------|----------------|----------------|-----------|---------------|---------|-----------|------------|------|
|                             |      | ( MHz )   | ( dB $\mu$ V/m ) | ( dB )     | ( dB $\mu$ V/m ) | ( dB $\mu$ V ) | ( dB/m )       | ( dB )    | ( dB )        | ( cm )  | ( deg )   | (P/A)(H/V) |      |
| 802.11a<br>CH 36<br>5180MHz |      | 5121.16   | 54.94            | -19.06     | 74               | 46.5           | 31.96          | 9.95      | 33.47         | 100     | 292       | P          | H    |
|                             |      | 5136.5    | 41.02            | -12.98     | 54               | 32.6           | 31.93          | 9.96      | 33.47         | 100     | 292       | A          | H    |
|                             | *    | 5180      | 102.63           | -          | -                | 94.29          | 31.78          | 10.02     | 33.46         | 100     | 292       | P          | H    |
|                             | *    | 5180      | 92.31            | -          | -                | 83.97          | 31.78          | 10.02     | 33.46         | 100     | 292       | A          | H    |
|                             |      |           |                  |            |                  |                |                |           |               |         |           |            | H    |
|                             |      |           |                  |            |                  |                |                |           |               |         |           |            | H    |
|                             |      | 5150      | 57.47            | -16.53     | 74               | 49.06          | 31.9           | 9.98      | 33.47         | 374     | 336       | P          | V    |
|                             |      | 5141.7    | 43.05            | -10.95     | 54               | 34.63          | 31.92          | 9.97      | 33.47         | 374     | 336       | A          | V    |
|                             | *    | 5180      | 113.16           | -          | -                | 104.82         | 31.78          | 10.02     | 33.46         | 374     | 336       | P          | V    |
|                             | *    | 5180      | 103.2            | -          | -                | 94.86          | 31.78          | 10.02     | 33.46         | 374     | 336       | A          | V    |
|                             |      |           |                  |            |                  |                |                |           |               |         |           |            | V    |
|                             |      |           |                  |            |                  |                |                |           |               |         |           |            | V    |
| 802.11a<br>CH 44<br>5220MHz |      | 5100.88   | 54.25            | -19.75     | 74               | 45.8           | 32             | 9.92      | 33.47         | 123     | 297       | P          | H    |
|                             |      | 5138.84   | 40.98            | -13.02     | 54               | 32.56          | 31.92          | 9.97      | 33.47         | 123     | 297       | A          | H    |
|                             | *    | 5220      | 100.89           | -          | -                | 92.71          | 31.58          | 10.06     | 33.46         | 123     | 297       | P          | H    |
|                             | *    | 5220      | 90.58            | -          | -                | 82.4           | 31.58          | 10.06     | 33.46         | 123     | 297       | A          | H    |
|                             |      | 5397      | 53.47            | -20.53     | 74               | 45.22          | 31.49          | 10.2      | 33.44         | 123     | 297       | P          | H    |
|                             |      | 5459.72   | 40.76            | -13.24     | 54               | 32.18          | 31.74          | 10.27     | 33.43         | 123     | 297       | A          | H    |
|                             |      | 5148.2    | 56.04            | -17.96     | 74               | 47.63          | 31.9           | 9.98      | 33.47         | 363     | 320       | P          | V    |
|                             |      | 5145.6    | 41.83            | -12.17     | 54               | 33.42          | 31.91          | 9.97      | 33.47         | 363     | 320       | A          | V    |
|                             | *    | 5220      | 112.79           | -          | -                | 104.61         | 31.58          | 10.06     | 33.46         | 363     | 320       | P          | V    |
|                             | *    | 5220      | 103.35           | -          | -                | 95.17          | 31.58          | 10.06     | 33.46         | 363     | 320       | A          | V    |
|                             |      | 5440.4    | 55.15            | -18.85     | 74               | 46.69          | 31.66          | 10.24     | 33.44         | 363     | 320       | P          | V    |
|                             |      | 5453      | 41.73            | -12.27     | 54               | 33.19          | 31.71          | 10.26     | 33.43         | 363     | 320       | A          | V    |



| 802.11a<br>CH 48<br>5240MHz |   | 5142.74 | 53.74  | -20.26 | 74 | 45.33 | 31.91 | 9.97  | 33.47 | 110 | 315 | P | H |
|-----------------------------|---|---------|--------|--------|----|-------|-------|-------|-------|-----|-----|---|---|
|                             |   | 5127.4  | 40.88  | -13.12 | 54 | 32.45 | 31.95 | 9.95  | 33.47 | 110 | 315 | A | H |
|                             | *   | 5240    | 101.02 | -      | -  | 92.95 | 31.46 | 10.07 | 33.46 | 110 | 315 | P | H |
|                             | *   | 5240    | 90.68  | -      | -  | 82.61 | 31.46 | 10.07 | 33.46 | 110 | 315 | A | H |
|                             |   | 5368.72 | 54.8   | -19.2  | 74 | 46.7  | 31.37 | 10.17 | 33.44 | 110 | 315 | P | H |
|                             |   | 5450.48 | 40.59  | -13.41 | 54 | 32.06 | 31.7  | 10.26 | 33.43 | 110 | 315 | A | H |
|                             |   | 5145.86 | 54.74  | -19.26 | 74 | 46.32 | 31.91 | 9.98  | 33.47 | 294 | 295 | P | V |
|                             |   | 5140.4  | 41.26  | -12.74 | 54 | 32.84 | 31.92 | 9.97  | 33.47 | 294 | 295 | A | V |
|                             | *   | 5240    | 112.27 | -      | -  | 104.2 | 31.46 | 10.07 | 33.46 | 294 | 295 | P | V |
|                             | *   | 5240    | 102.09 | -      | -  | 94.02 | 31.46 | 10.07 | 33.46 | 294 | 295 | A | V |
|                             |   | 5420.8  | 55.82  | -18.18 | 74 | 47.46 | 31.58 | 10.22 | 33.44 | 294 | 295 | P | V |
|                             |   | 5376    | 41.43  | -12.57 | 54 | 33.29 | 31.4  | 10.18 | 33.44 | 294 | 295 | A | V |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |       |       |       |       |     |     |   |   |



**Band 1 5150~5250MHz**  
**WIFI 802.11a (Harmonic @ 3m)**

| WIFI                        | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-----------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11a<br>CH 36<br>5180MHz |   | 10360                | 46.15                     | -22.05                  | 68.2                              | 50.96                           | 39.58                         | 15.6                   | 59.99                      | 100                  | 0                       | P                     | H             |
|                             |   | 15540                | 45.07                     | -28.93                  | 74                                | 45.3                            | 38.22                         | 19.59                  | 58.04                      | 100                  | 0                       | P                     | H             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                             |   | 10360                | 47.48                     | -20.72                  | 68.2                              | 52.29                           | 39.58                         | 15.6                   | 59.99                      | 100                  | 0                       | P                     | V             |
|                             |   | 15540                | 45.32                     | -28.68                  | 74                                | 45.55                           | 38.22                         | 19.59                  | 58.04                      | 100                  | 0                       | P                     | V             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11a<br>CH 44<br>5220MHz |   | 10440                | 46.52                     | -21.68                  | 68.2                              | 51.32                           | 39.7                          | 15.67                  | 60.17                      | 100                  | 0                       | P                     | H             |
|                             |   | 15660                | 45.74                     | -28.26                  | 74                                | 46.18                           | 37.8                          | 19.64                  | 57.88                      | 100                  | 0                       | P                     | H             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                             |   | 10440                | 46.48                     | -21.72                  | 68.2                              | 51.28                           | 39.7                          | 15.67                  | 60.17                      | 100                  | 0                       | P                     | V             |
|                             |   | 15660                | 45.93                     | -28.07                  | 74                                | 46.37                           | 37.8                          | 19.64                  | 57.88                      | 100                  | 0                       | P                     | V             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11a<br>CH 48<br>5240MHz |   | 10480                | 46.99                     | -21.21                  | 68.2                              | 51.85                           | 39.7                          | 15.7                   | 60.26                      | 100                  | 0                       | P                     | H             |
|                             |   | 15720                | 45.52                     | -28.48                  | 74                                | 45.9                            | 37.76                         | 19.65                  | 57.79                      | 100                  | 0                       | P                     | H             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                             |   | 10480                | 46.97                     | -21.23                  | 68.2                              | 51.83                           | 39.7                          | 15.7                   | 60.26                      | 100                  | 0                       | P                     | V             |
|                             |   | 15720                | 46                        | -28                     | 74                                | 46.38                           | 37.76                         | 19.65                  | 57.79                      | 100                  | 0                       | P                     | V             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 1 5150~5250MHz

## WIFI 802.11n HT20 (Band Edge @ 3m)

| WIFI                                | Note | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A)(H/V) | Pol. |
|-------------------------------------|------|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|----------------------------|------|
| 802.11n<br>HT20<br>CH 36<br>5180MHz |      | 5118.56              | 54.16                     | -19.84                  | 74                                | 45.73                           | 31.96                         | 9.94                   | 33.47                      | 296                  | 329                     | P                          | H    |
|                                     |      | 5115.18              | 40.71                     | -13.29                  | 54                                | 32.27                           | 31.97                         | 9.94                   | 33.47                      | 296                  | 329                     | A                          | H    |
|                                     | *    | 5180                 | 101.31                    | -                       | -                                 | 92.97                           | 31.78                         | 10.02                  | 33.46                      | 296                  | 329                     | P                          | H    |
|                                     | *    | 5180                 | 91.29                     | -                       | -                                 | 82.95                           | 31.78                         | 10.02                  | 33.46                      | 296                  | 329                     | A                          | H    |
|                                     |      |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            | H    |
|                                     |      |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            | H    |
|                                     |      | 5149.24              | 63.71                     | -10.29                  | 74                                | 55.3                            | 31.9                          | 9.98                   | 33.47                      | 293                  | 37                      | P                          | V    |
|                                     |      | 5144.56              | 42.71                     | -11.29                  | 54                                | 34.3                            | 31.91                         | 9.97                   | 33.47                      | 293                  | 37                      | A                          | V    |
|                                     | *    | 5180                 | 112.94                    | -                       | -                                 | 104.6                           | 31.78                         | 10.02                  | 33.46                      | 293                  | 37                      | P                          | V    |
|                                     | *    | 5180                 | 102.44                    | -                       | -                                 | 94.1                            | 31.78                         | 10.02                  | 33.46                      | 293                  | 37                      | A                          | V    |
|                                     |      |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            | V    |
|                                     |      |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            | V    |
| 802.11n<br>HT20<br>CH 44<br>5220MHz |      | 5134.16              | 54.63                     | -19.37                  | 74                                | 46.21                           | 31.93                         | 9.96                   | 33.47                      | 290                  | 328                     | P                          | H    |
|                                     |      | 5148.2               | 40.96                     | -13.04                  | 54                                | 32.55                           | 31.9                          | 9.98                   | 33.47                      | 290                  | 328                     | A                          | H    |
|                                     | *    | 5220                 | 101.29                    | -                       | -                                 | 93.11                           | 31.58                         | 10.06                  | 33.46                      | 290                  | 328                     | P                          | H    |
|                                     | *    | 5220                 | 91.75                     | -                       | -                                 | 83.57                           | 31.58                         | 10.06                  | 33.46                      | 290                  | 328                     | A                          | H    |
|                                     |      | 5438.44              | 53.97                     | -20.03                  | 74                                | 45.52                           | 31.65                         | 10.24                  | 33.44                      | 290                  | 328                     | P                          | H    |
|                                     |      | 5437.04              | 40.63                     | -13.37                  | 54                                | 32.18                           | 31.65                         | 10.24                  | 33.44                      | 290                  | 328                     | A                          | H    |
|                                     |      | 5148.72              | 56.56                     | -17.44                  | 74                                | 48.15                           | 31.9                          | 9.98                   | 33.47                      | 314                  | 41                      | P                          | V    |
|                                     |      | 5149.24              | 41.49                     | -12.51                  | 54                                | 33.08                           | 31.9                          | 9.98                   | 33.47                      | 314                  | 41                      | A                          | V    |
|                                     | *    | 5220                 | 112.85                    | -                       | -                                 | 104.67                          | 31.58                         | 10.06                  | 33.46                      | 314                  | 41                      | P                          | V    |
|                                     | *    | 5220                 | 102.57                    | -                       | -                                 | 94.39                           | 31.58                         | 10.06                  | 33.46                      | 314                  | 41                      | A                          | V    |
|                                     |      | 5431.72              | 54.84                     | -19.16                  | 74                                | 46.42                           | 31.63                         | 10.23                  | 33.44                      | 314                  | 41                      | P                          | V    |
|                                     |      | 5454.68              | 41.04                     | -12.96                  | 54                                | 32.49                           | 31.72                         | 10.26                  | 33.43                      | 314                  | 41                      | A                          | V    |



|                                     |   |         |        |        |    |        |       |       |       |     |     |   |   |
|-------------------------------------|---|---------|--------|--------|----|--------|-------|-------|-------|-----|-----|---|---|
| 802.11n<br>HT20<br>CH 48<br>5240MHz |   | 5113.1  | 54.39  | -19.61 | 74 | 45.95  | 31.97 | 9.94  | 33.47 | 310 | 327 | P | H |
|                                     |   | 5130.26 | 40.68  | -13.32 | 54 | 32.25  | 31.94 | 9.96  | 33.47 | 310 | 327 | A | H |
|                                     | *   | 5240    | 100.34 | -      | -  | 92.27  | 31.46 | 10.07 | 33.46 | 310 | 327 | P | H |
|                                     | *   | 5240    | 89.73  | -      | -  | 81.66  | 31.46 | 10.07 | 33.46 | 310 | 327 | A | H |
|                                     |   | 5459.72 | 54.14  | -19.86 | 74 | 45.56  | 31.74 | 10.27 | 33.43 | 310 | 327 | P | H |
|                                     |   | 5428.36 | 40.48  | -13.52 | 54 | 32.08  | 31.61 | 10.23 | 33.44 | 310 | 327 | A | H |
|                                     |   | 5142.74 | 54.25  | -19.75 | 74 | 45.84  | 31.91 | 9.97  | 33.47 | 300 | 41  | P | V |
|                                     |   | 5140.66 | 41.14  | -12.86 | 54 | 32.72  | 31.92 | 9.97  | 33.47 | 300 | 41  | A | V |
|                                     | *   | 5240    | 112.46 | -      | -  | 104.39 | 31.46 | 10.07 | 33.46 | 300 | 41  | P | V |
|                                     | *   | 5240    | 101.93 | -      | -  | 93.86  | 31.46 | 10.07 | 33.46 | 300 | 41  | A | V |
|                                     |   | 5394.2  | 54.69  | -19.31 | 74 | 46.45  | 31.48 | 10.2  | 33.44 | 300 | 41  | P | V |
|                                     |   | 5359.76 | 41     | -13    | 54 | 32.93  | 31.34 | 10.17 | 33.44 | 300 | 41  | A | V |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |        |       |       |       |     |     |   |   |



## Band 1 5150~5250MHz

## WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI                                | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT20<br>CH 36<br>5180MHz |   | 10360                | 47.47                     | -20.73                  | 68.2                              | 52.28                           | 39.58                         | 15.6                   | 59.99                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15540                | 45.88                     | -28.12                  | 74                                | 46.11                           | 38.22                         | 19.59                  | 58.04                      | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10360                | 46.58                     | -21.62                  | 68.2                              | 51.39                           | 39.58                         | 15.6                   | 59.99                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15540                | 46.05                     | -27.95                  | 74                                | 46.28                           | 38.22                         | 19.59                  | 58.04                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 44<br>5220MHz |   | 10440                | 46.37                     | -21.83                  | 68.2                              | 51.17                           | 39.7                          | 15.67                  | 60.17                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15660                | 45.79                     | -28.21                  | 74                                | 46.23                           | 37.8                          | 19.64                  | 57.88                      | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10440                | 47.14                     | -21.06                  | 68.2                              | 51.94                           | 39.7                          | 15.67                  | 60.17                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15660                | 45.79                     | -28.21                  | 74                                | 46.23                           | 37.8                          | 19.64                  | 57.88                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 48<br>5240MHz |   | 10480                | 47.07                     | -21.13                  | 68.2                              | 51.93                           | 39.7                          | 15.7                   | 60.26                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15720                | 44.94                     | -29.06                  | 74                                | 45.32                           | 37.76                         | 19.65                  | 57.79                      | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10480                | 47.39                     | -20.81                  | 68.2                              | 52.25                           | 39.7                          | 15.7                   | 60.26                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15720                | 45.55                     | -28.45                  | 74                                | 45.93                           | 37.76                         | 19.65                  | 57.79                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 1 5150~5250MHz

## WIFI 802.11n HT40 (Band Edge @ 3m)

| WIFI                                | Note | Frequency<br>( MHz )                                      | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A)(H/V) | Pol. |
|-------------------------------------|------|---|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|----------------------------|------|
| 802.11n<br>HT40<br>CH 38<br>5190MHz |      | 5145.34   | 53.55                     | -20.45                  | 74                                | 45.14                           | 31.91                         | 9.97                   | 33.47                      | 100                  | 17                      | P                          | H    |
|                                     |      | 5142.74   | 41.7                      | -12.3                   | 54                                | 33.29                           | 31.91                         | 9.97                   | 33.47                      | 100                  | 17                      | A                          | H    |
|                                     | *    | 5190  | 98.22                     | -                       | -                                 | 89.91                           | 31.74                         | 10.03                  | 33.46                      | 100                  | 17                      | P                          | H    |
|                                     | *    | 5190  | 88.59                     | -                       | -                                 | 80.28                           | 31.74                         | 10.03                  | 33.46                      | 100                  | 17                      | A                          | H    |
|                                     |      | 5390  | 53.75                     | -20.25                  | 74                                | 45.54                           | 31.46                         | 10.19                  | 33.44                      | 100                  | 17                      | P                          | H    |
|                                     |      | 5446.56   | 41.44                     | -12.56                  | 54                                | 32.94                           | 31.69                         | 10.25                  | 33.44                      | 100                  | 17                      | A                          | H    |
|                                     |      | 5145.08   | 59.47                     | -14.53                  | 74                                | 51.06                           | 31.91                         | 9.97                   | 33.47                      | 301                  | 179                     | P                          | V    |
|                                     |      | 5147.68   | 44.98                     | -9.02                   | 54                                | 36.57                           | 31.9                          | 9.98                   | 33.47                      | 301                  | 179                     | A                          | V    |
|                                     | *    | 5190  | 109.12                    | -                       | -                                 | 100.81                          | 31.74                         | 10.03                  | 33.46                      | 301                  | 179                     | P                          | V    |
|                                     | *    | 5190  | 99.4                      | -                       | -                                 | 91.09                           | 31.74                         | 10.03                  | 33.46                      | 301                  | 179                     | A                          | V    |
| 802.11n<br>HT40<br>CH 46<br>5230MHz |      | 5450.76   | 54.22                     | -19.78                  | 74                                | 45.69                           | 31.7                          | 10.26                  | 33.43                      | 301                  | 179                     | P                          | V    |
|                                     |      | 5456.08   | 41.72                     | -12.28                  | 54                                | 33.17                           | 31.72                         | 10.26                  | 33.43                      | 301                  | 179                     | A                          | V    |
|                                     |      | 5143.52   | 54.29                     | -19.71                  | 74                                | 45.88                           | 31.91                         | 9.97                   | 33.47                      | 280                  | 312                     | P                          | H    |
|                                     |      | 5135.98   | 41.74                     | -12.26                  | 54                                | 33.32                           | 31.93                         | 9.96                   | 33.47                      | 280                  | 312                     | A                          | H    |
|                                     | *    | 5230  | 102.21                    | -                       | -                                 | 94.09                           | 31.52                         | 10.06                  | 33.46                      | 280                  | 312                     | P                          | H    |
|                                     | *    | 5230  | 92.31                     | -                       | -                                 | 84.19                           | 31.52                         | 10.06                  | 33.46                      | 280                  | 312                     | A                          | H    |
|                                     |      | 5454.68   | 53.38                     | -20.62                  | 74                                | 44.83                           | 31.72                         | 10.26                  | 33.43                      | 280                  | 312                     | P                          | H    |
|                                     |      | 5363.12   | 41.58                     | -12.42                  | 54                                | 33.5                            | 31.35                         | 10.17                  | 33.44                      | 280                  | 312                     | A                          | H    |
|                                     |      | 5148.2  | 56.56                     | -17.44                  | 74                                | 48.15                           | 31.9                          | 9.98                   | 33.47                      | 313                  | 314                     | P                          | V    |
|                                     |      | 5149.76   | 42.86                     | -11.14                  | 54                                | 34.45                           | 31.9                          | 9.98                   | 33.47                      | 313                  | 314                     | A                          | V    |
| Remark                              | 1.   | No other spurious found.                                  |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            |      |
|                                     | 2.   | All results are PASS against Peak and Average limit line. |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            |      |



## Band 1 5150~5250MHz

## WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI                                | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT40<br>CH 38<br>5190MHz |   | 10380                | 47.26                     | -20.94                  | 68.2                              | 52.04                           | 39.64                         | 15.62                  | 60.04                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15570                | 44.88                     | -29.12                  | 74                                | 45.27                           | 38.01                         | 19.6                   | 58                         | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10380                | 46.86                     | -21.34                  | 68.2                              | 51.64                           | 39.64                         | 15.62                  | 60.04                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15570                | 44.97                     | -29.03                  | 74                                | 45.36                           | 38.01                         | 19.6                   | 58                         | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT40<br>CH 46<br>5230MHz |   | 10460                | 46.9                      | -21.3                   | 68.2                              | 51.73                           | 39.7                          | 15.68                  | 60.21                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15690                | 54.24                     | -19.76                  | 74                                | 54.63                           | 37.8                          | 19.64                  | 57.83                      | 204                  | 329                     | P                     | H             |
|                                     |   | 15690                | 42.26                     | -11.74                  | 54                                | 42.65                           | 37.8                          | 19.64                  | 57.83                      | 204                  | 329                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10460                | 47.03                     | -21.17                  | 68.2                              | 51.86                           | 39.7                          | 15.68                  | 60.21                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15690                | 46.36                     | -27.64                  | 74                                | 46.75                           | 37.8                          | 19.64                  | 57.83                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 1 5150~5250MHz

## WIFI 802.11ac VHT80 (Band Edge @ 3m)

| WIFI                                  | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A)(H/V) |
|---------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|----------------------------|
| 802.11ac<br>VHT80<br>CH 42<br>5210MHz |   | 5140.66              | 55.2                      | -18.8                   | 74                                | 46.78                           | 31.92                         | 9.97                   | 33.47                      | 292                  | 311                     | P H                        |
|                                       |   | 5142.74              | 42.58                     | -11.42                  | 54                                | 34.17                           | 31.91                         | 9.97                   | 33.47                      | 292                  | 311                     | A H                        |
|                                       | *   | 5210                 | 94.7                      | -                       | -                                 | 86.47                           | 31.64                         | 10.05                  | 33.46                      | 292                  | 311                     | P H                        |
|                                       | *   | 5210                 | 84.55                     | -                       | -                                 | 76.32                           | 31.64                         | 10.05                  | 33.46                      | 292                  | 311                     | A H                        |
|                                       |   | 5442.36              | 53.51                     | -20.49                  | 74                                | 45.03                           | 31.67                         | 10.25                  | 33.44                      | 292                  | 311                     | P H                        |
|                                       |   | 5421.08              | 42.02                     | -11.98                  | 54                                | 33.66                           | 31.58                         | 10.22                  | 33.44                      | 292                  | 311                     | A H                        |
|                                       |   | 5147.42              | 59.7                      | -14.3                   | 74                                | 51.28                           | 31.91                         | 9.98                   | 33.47                      | 323                  | 317                     | P V                        |
|                                       |   | 5145.6               | 48.76                     | -5.24                   | 54                                | 40.35                           | 31.91                         | 9.97                   | 33.47                      | 323                  | 317                     | A V                        |
|                                       | *   | 5210                 | 105.86                    | -                       | -                                 | 97.63                           | 31.64                         | 10.05                  | 33.46                      | 323                  | 317                     | P V                        |
|                                       | *   | 5210                 | 95.11                     | -                       | -                                 | 86.88                           | 31.64                         | 10.05                  | 33.46                      | 323                  | 317                     | A V                        |
|                                       |   | 5428.08              | 54.4                      | -19.6                   | 74                                | 46                              | 31.61                         | 10.23                  | 33.44                      | 323                  | 317                     | P V                        |
|                                       |   | 5453                 | 42.13                     | -11.87                  | 54                                | 33.59                           | 31.71                         | 10.26                  | 33.43                      | 323                  | 317                     | A V                        |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            |



## Band 1 5150~5250MHz

## WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI                                  | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|---------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 42<br>5210MHz |   | 10420                | 46.9                      | -21.3                   | 68.2                              | 51.67                           | 39.7                          | 15.65                  | 60.12                      | 100                  | 0                       | P                     | H             |
|                                       |   | 15630                | 45.68                     | -28.32                  | 74                                | 46.18                           | 37.8                          | 19.62                  | 57.92                      | 100                  | 0                       | P                     | H             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                       |   | 10420                | 46.52                     | -21.68                  | 68.2                              | 51.29                           | 39.7                          | 15.65                  | 60.12                      | 100                  | 0                       | P                     | V             |
|                                       |   | 15630                | 45.56                     | -28.44                  | 74                                | 46.06                           | 37.8                          | 19.62                  | 57.92                      | 100                  | 0                       | P                     | V             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 2 - 5250~5350MHz

## WIFI 802.11a (Band Edge @ 3m)

| WIFI                        | Note | Frequency | Level  | Over   | Limit | Read   | Antenna | Path  | Preamp | Ant | Table | Peak    | Pol.    |
|-----------------------------|------|-----------|--------|--------|-------|--------|---------|-------|--------|-----|-------|---------|---------|
|                             |      |           |        |        |       |        |         |       |        |     |       | Avg.    |         |
|                             |      |           |        |        |       |        |         |       |        |     |       | ( P/A ) | ( H/V ) |
| 802.11a<br>CH 52<br>5260MHz |      | 5149.26   | 54.11  | -19.89 | 74    | 45.7   | 31.9    | 9.98  | 33.47  | 100 | 290   | P       | H       |
|                             |      | 5130.9    | 40.72  | -13.28 | 54    | 32.29  | 31.94   | 9.96  | 33.47  | 100 | 290   | A       | H       |
|                             | *    | 5260      | 100.72 | -      | -     | 92.7   | 31.38   | 10.09 | 33.45  | 100 | 290   | P       | H       |
|                             | *    | 5260      | 90.26  | -      | -     | 82.24  | 31.38   | 10.09 | 33.45  | 100 | 290   | A       | H       |
|                             |      | 5405.28   | 53.96  | -20.04 | 74    | 45.67  | 31.52   | 10.21 | 33.44  | 100 | 290   | P       | H       |
|                             |      | 5432.64   | 40.71  | -13.29 | 54    | 32.28  | 31.63   | 10.24 | 33.44  | 100 | 290   | A       | H       |
|                             |      | 5115.94   | 54.83  | -19.17 | 74    | 46.39  | 31.97   | 9.94  | 33.47  | 292 | 324   | P       | V       |
|                             |      | 5145.52   | 40.84  | -13.16 | 54    | 32.43  | 31.91   | 9.97  | 33.47  | 292 | 324   | A       | V       |
|                             | *    | 5260      | 111.42 | -      | -     | 103.4  | 31.38   | 10.09 | 33.45  | 292 | 324   | P       | V       |
|                             | *    | 5260      | 101.12 | -      | -     | 93.1   | 31.38   | 10.09 | 33.45  | 292 | 324   | A       | V       |
|                             |      | 5434.08   | 54.84  | -19.16 | 74    | 46.4   | 31.64   | 10.24 | 33.44  | 292 | 324   | P       | V       |
|                             |      | 5453.04   | 41.36  | -12.64 | 54    | 32.82  | 31.71   | 10.26 | 33.43  | 292 | 324   | A       | V       |
| 802.11a<br>CH 60<br>5300MHz |      | 5105.4    | 53.96  | -20.04 | 74    | 45.51  | 31.99   | 9.93  | 33.47  | 100 | 356   | P       | H       |
|                             |      | 5127.5    | 40.68  | -13.32 | 54    | 32.26  | 31.94   | 9.95  | 33.47  | 100 | 356   | A       | H       |
|                             | *    | 5300      | 98.67  | -      | -     | 90.7   | 31.3    | 10.12 | 33.45  | 100 | 356   | P       | H       |
|                             | *    | 5300      | 89     | -      | -     | 81.03  | 31.3    | 10.12 | 33.45  | 100 | 356   | A       | H       |
|                             |      | 5439.84   | 54.75  | -19.25 | 74    | 46.29  | 31.66   | 10.24 | 33.44  | 100 | 356   | P       | H       |
|                             |      | 5424.72   | 40.49  | -13.51 | 54    | 32.1   | 31.6    | 10.23 | 33.44  | 100 | 356   | A       | H       |
|                             |      | 5146.2    | 54.47  | -19.53 | 74    | 46.05  | 31.91   | 9.98  | 33.47  | 299 | 297   | P       | V       |
|                             |      | 5138.38   | 40.89  | -13.11 | 54    | 32.47  | 31.92   | 9.97  | 33.47  | 299 | 297   | A       | V       |
|                             | *    | 5300      | 112.15 | -      | -     | 104.18 | 31.3    | 10.12 | 33.45  | 299 | 297   | P       | V       |
|                             | *    | 5300      | 102.72 | -      | -     | 94.75  | 31.3    | 10.12 | 33.45  | 299 | 297   | A       | V       |
|                             |      | 5350.32   | 58.43  | -15.57 | 74    | 50.41  | 31.3    | 10.16 | 33.44  | 299 | 297   | P       | V       |
|                             |      | 5351.28   | 43.69  | -10.31 | 54    | 35.66  | 31.31   | 10.16 | 33.44  | 299 | 297   | A       | V       |



|                                      |   |         |        |        |    |        |       |       |       |     |     |   |   |
|--------------------------------------|---|---------|--------|--------|----|--------|-------|-------|-------|-----|-----|---|---|
| <b>802.11a<br/>CH 64<br/>5320MHz</b> | *   | 5320    | 99.99  | -      | -  | 92     | 31.3  | 10.14 | 33.45 | 100 | 293 | P | H |
|                                      | *   | 5320    | 90.01  | -      | -  | 82.02  | 31.3  | 10.14 | 33.45 | 100 | 293 | A | H |
|                                      |   | 5384    | 54.36  | -19.64 | 74 | 46.17  | 31.44 | 10.19 | 33.44 | 100 | 293 | P | H |
|                                      |   | 5456.32 | 40.97  | -13.03 | 54 | 32.41  | 31.73 | 10.26 | 33.43 | 100 | 293 | A | H |
|                                      |   |         |        |        |    |        |       |       |       |     |     |   | H |
|                                      |   |         |        |        |    |        |       |       |       |     |     |   | H |
|                                      | *   | 5320    | 113.48 | -      | -  | 105.49 | 31.3  | 10.14 | 33.45 | 390 | 341 | P | V |
|                                      | *   | 5320    | 103.89 | -      | -  | 95.9   | 31.3  | 10.14 | 33.45 | 390 | 341 | A | V |
|                                      |   | 5351.52 | 61.24  | -12.76 | 74 | 53.21  | 31.31 | 10.16 | 33.44 | 390 | 341 | P | V |
|                                      |   | 5351.04 | 43.97  | -10.03 | 54 | 35.95  | 31.3  | 10.16 | 33.44 | 390 | 341 | A | V |
|                                      |   |         |        |        |    |        |       |       |       |     |     |   | V |
|                                      |   |         |        |        |    |        |       |       |       |     |     |   | V |
| <b>Remark</b>                        | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |        |       |       |       |     |     |   |   |



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

| WIFI                                | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11a<br><br>CH 52<br><br>5260MHz |   | 10520                | 46.91                     | -21.29                  | 68.2                              | 51.79                           | 39.74                         | 15.73                  | 60.35                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15780                | 46                        | -28                     | 74                                | 46.39                           | 37.64                         | 19.68                  | 57.71                      | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10520                | 46.04                     | -22.16                  | 68.2                              | 50.92                           | 39.74                         | 15.73                  | 60.35                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15780                | 45.71                     | -28.29                  | 74                                | 46.1                            | 37.64                         | 19.68                  | 57.71                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11a<br><br>CH 60<br><br>5300MHz |   | 10600                | 46.4                      | -27.6                   | 74                                | 51.24                           | 39.9                          | 15.8                   | 60.54                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15900                | 45.63                     | -28.37                  | 74                                | 46.14                           | 37.3                          | 19.73                  | 57.54                      | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10600                | 47.25                     | -26.75                  | 74                                | 52.09                           | 39.9                          | 15.8                   | 60.54                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15900                | 45.2                      | -28.8                   | 74                                | 45.71                           | 37.3                          | 19.73                  | 57.54                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11a<br><br>CH 64<br><br>5320MHz |   | 10640                | 46.47                     | -27.53                  | 74                                | 51.43                           | 39.86                         | 15.82                  | 60.64                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15960                | 45.63                     | -28.37                  | 74                                | 45.99                           | 37.36                         | 19.74                  | 57.46                      | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10640                | 46.57                     | -27.43                  | 74                                | 51.53                           | 39.86                         | 15.82                  | 60.64                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15960                | 44.94                     | -29.06                  | 74                                | 45.3                            | 37.36                         | 19.74                  | 57.46                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.<br>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<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A)(H/V) | Pol. |
|-------------------------------------|------|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|----------------------------|------|
| 802.11n<br>HT20<br>CH 52<br>5260MHz |      | 5133.64              | 53.46                     | -20.54                  | 74                                | 45.04                           | 31.93                         | 9.96                   | 33.47                      | 100                  | 290                     | P                          | H    |
|                                     |      | 5125.58              | 40.74                     | -13.26                  | 54                                | 32.31                           | 31.95                         | 9.95                   | 33.47                      | 100                  | 290                     | A                          | H    |
|                                     | *    | 5260                 | 100.56                    | -                       | -                                 | 92.54                           | 31.38                         | 10.09                  | 33.45                      | 100                  | 290                     | P                          | H    |
|                                     | *    | 5260                 | 90.46                     | -                       | -                                 | 82.44                           | 31.38                         | 10.09                  | 33.45                      | 100                  | 290                     | A                          | H    |
|                                     |      |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            | H    |
|                                     |      |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            | H    |
|                                     |      | 5070.98              | 53.94                     | -20.06                  | 74                                | 45.64                           | 31.88                         | 9.89                   | 33.47                      | 300                  | 300                     | P                          | V    |
|                                     |      | 5136.24              | 40.97                     | -13.03                  | 54                                | 32.55                           | 31.93                         | 9.96                   | 33.47                      | 300                  | 300                     | A                          | V    |
|                                     | *    | 5260                 | 113.66                    | -                       | -                                 | 105.64                          | 31.38                         | 10.09                  | 33.45                      | 300                  | 300                     | P                          | V    |
|                                     | *    | 5260                 | 103.16                    | -                       | -                                 | 95.14                           | 31.38                         | 10.09                  | 33.45                      | 300                  | 300                     | A                          | V    |
|                                     |      |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            | V    |
|                                     |      |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            | V    |
| 802.11n<br>HT20<br>CH 60<br>5300MHz |      | 5121.04              | 53.47                     | -20.53                  | 74                                | 45.03                           | 31.96                         | 9.95                   | 33.47                      | 302                  | 312                     | P                          | H    |
|                                     |      | 5132.6               | 40.76                     | -13.24                  | 54                                | 32.34                           | 31.93                         | 9.96                   | 33.47                      | 302                  | 312                     | A                          | H    |
|                                     | *    | 5300                 | 102.57                    | -                       | -                                 | 94.6                            | 31.3                          | 10.12                  | 33.45                      | 302                  | 312                     | P                          | H    |
|                                     | *    | 5300                 | 91.91                     | -                       | -                                 | 83.94                           | 31.3                          | 10.12                  | 33.45                      | 302                  | 312                     | A                          | H    |
|                                     |      | 5351.76              | 53.52                     | -20.48                  | 74                                | 45.49                           | 31.31                         | 10.16                  | 33.44                      | 302                  | 312                     | P                          | H    |
|                                     |      | 5436.72              | 40.5                      | -13.5                   | 54                                | 32.05                           | 31.65                         | 10.24                  | 33.44                      | 302                  | 312                     | A                          | H    |
|                                     |      | 5133.96              | 53.86                     | -20.14                  | 74                                | 45.44                           | 31.93                         | 9.96                   | 33.47                      | 300                  | 166                     | P                          | V    |
|                                     |      | 5133.96              | 40.81                     | -13.19                  | 54                                | 32.39                           | 31.93                         | 9.96                   | 33.47                      | 300                  | 166                     | A                          | V    |
|                                     | *    | 5300                 | 113.36                    | -                       | -                                 | 105.39                          | 31.3                          | 10.12                  | 33.45                      | 300                  | 166                     | P                          | V    |
|                                     | *    | 5300                 | 103.02                    | -                       | -                                 | 95.05                           | 31.3                          | 10.12                  | 33.45                      | 300                  | 166                     | A                          | V    |
|                                     |      | 5351.76              | 61.42                     | -12.58                  | 74                                | 53.39                           | 31.31                         | 10.16                  | 33.44                      | 300                  | 166                     | P                          | V    |
|                                     |      | 5355.84              | 43.2                      | -10.8                   | 54                                | 35.16                           | 31.32                         | 10.16                  | 33.44                      | 300                  | 166                     | A                          | V    |



|                                     |   |         |        |        |    |        |       |       |       |     |     |   |   |
|-------------------------------------|---|---------|--------|--------|----|--------|-------|-------|-------|-----|-----|---|---|
| 802.11n<br>HT20<br>CH 64<br>5320MHz | *   | 5320    | 103.34 | -      | -  | 95.35  | 31.3  | 10.14 | 33.45 | 301 | 328 | P | H |
|                                     | *   | 5320    | 93.28  | -      | -  | 85.29  | 31.3  | 10.14 | 33.45 | 301 | 328 | A | H |
|                                     |   | 5369.6  | 54.83  | -19.17 | 74 | 46.71  | 31.38 | 10.18 | 33.44 | 301 | 328 | P | H |
|                                     |   | 5445.76 | 40.66  | -13.34 | 54 | 32.17  | 31.68 | 10.25 | 33.44 | 301 | 328 | A | H |
|                                     |   |         |        |        |    |        |       |       |       |     |     |   | H |
|                                     |   |         |        |        |    |        |       |       |       |     |     |   | H |
|                                     | *   | 5320    | 114.21 | -      | -  | 106.22 | 31.3  | 10.14 | 33.45 | 300 | 166 | P | V |
|                                     | *   | 5320    | 104.08 | -      | -  | 96.09  | 31.3  | 10.14 | 33.45 | 300 | 166 | A | V |
|                                     |   | 5350.72 | 63.62  | -10.38 | 74 | 55.6   | 31.3  | 10.16 | 33.44 | 300 | 166 | P | V |
|                                     |   | 5355.2  | 43.49  | -10.51 | 54 | 35.45  | 31.32 | 10.16 | 33.44 | 300 | 166 | A | V |
|                                     |   |         |        |        |    |        |       |       |       |     |     |   | V |
|                                     |   |         |        |        |    |        |       |       |       |     |     |   | V |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |        |       |       |       |     |     |   |   |



## Band 2 5250~5350MHz

## WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI                                | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT20<br>CH 52<br>5260MHz |   | 10520                | 46.88                     | -21.32                  | 68.2                              | 51.76                           | 39.74                         | 15.73                  | 60.35                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15780                | 45.82                     | -28.18                  | 74                                | 46.21                           | 37.64                         | 19.68                  | 57.71                      | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10520                | 46.63                     | -21.57                  | 68.2                              | 51.51                           | 39.74                         | 15.73                  | 60.35                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15780                | 46.64                     | -27.36                  | 74                                | 47.03                           | 37.64                         | 19.68                  | 57.71                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 60<br>5300MHz |   | 10600                | 46.84                     | -27.16                  | 74                                | 51.68                           | 39.9                          | 15.8                   | 60.54                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15900                | 45.41                     | -28.59                  | 74                                | 45.92                           | 37.3                          | 19.73                  | 57.54                      | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10600                | 46.32                     | -27.68                  | 74                                | 51.16                           | 39.9                          | 15.8                   | 60.54                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15900                | 46.21                     | -27.79                  | 74                                | 46.72                           | 37.3                          | 19.73                  | 57.54                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 64<br>5320MHz |   | 10640                | 47.04                     | -26.96                  | 74                                | 52                              | 39.86                         | 15.82                  | 60.64                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15960                | 48.24                     | -25.76                  | 74                                | 48.6                            | 37.36                         | 19.74                  | 57.46                      | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10640                | 46.09                     | -27.91                  | 74                                | 51.05                           | 39.86                         | 15.82                  | 60.64                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15960                | 47.21                     | -26.79                  | 74                                | 47.57                           | 37.36                         | 19.74                  | 57.46                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                              | 3. No other spurious found.<br>4. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 2 5250~5350MHz

## WIFI 802.11n HT40 (Band Edge @ 3m)

| WIFI                                | Note | Frequency<br>( MHz )                                      | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>(P/A) | Avg.<br>(H/V) |
|-------------------------------------|------|---|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|---------------|---------------|
| 802.11n<br>HT40<br>CH 54<br>5270MHz |      | 5081.6  | 53.3                      | -20.7                   | 74                                | 44.94                           | 31.93                         | 9.9                    | 33.47                      | 289                  | 325                     | P             | H             |
|                                     |      | 5134.3  | 41.85                     | -12.15                  | 54                                | 33.43                           | 31.93                         | 9.96                   | 33.47                      | 289                  | 325                     | A             | H             |
|                                     | *    | 5270  | 101.27                    | -                       | -                                 | 93.26                           | 31.36                         | 10.1                   | 33.45                      | 289                  | 325                     | P             | H             |
|                                     | *    | 5270  | 91.47                     | -                       | -                                 | 83.46                           | 31.36                         | 10.1                   | 33.45                      | 289                  | 325                     | A             | H             |
|                                     |      | 5374.08   | 53.93                     | -20.07                  | 74                                | 45.79                           | 31.4                          | 10.18                  | 33.44                      | 289                  | 325                     | P             | H             |
|                                     |      | 5444.16   | 41.35                     | -12.65                  | 54                                | 32.86                           | 31.68                         | 10.25                  | 33.44                      | 289                  | 325                     | A             | H             |
|                                     |      | 5132.26   | 53.89                     | -20.11                  | 74                                | 45.46                           | 31.94                         | 9.96                   | 33.47                      | 315                  | 316                     | P             | V             |
|                                     |      | 5138.04   | 41.91                     | -12.09                  | 54                                | 33.49                           | 31.92                         | 9.97                   | 33.47                      | 315                  | 316                     | A             | V             |
|                                     | *    | 5270  | 113.53                    | -                       | -                                 | 105.52                          | 31.36                         | 10.1                   | 33.45                      | 315                  | 316                     | P             | V             |
|                                     | *    | 5270  | 103.77                    | -                       | -                                 | 95.76                           | 31.36                         | 10.1                   | 33.45                      | 315                  | 316                     | A             | V             |
| 802.11n<br>HT40<br>CH 62<br>5310MHz |      | 5350.32   | 58.54                     | -15.46                  | 74                                | 50.52                           | 31.3                          | 10.16                  | 33.44                      | 315                  | 316                     | P             | V             |
|                                     |      | 5353.2  | 44.3                      | -9.7                    | 54                                | 36.27                           | 31.31                         | 10.16                  | 33.44                      | 315                  | 316                     | A             | V             |
|                                     |      | 5093.5  | 53.56                     | -20.44                  | 74                                | 45.15                           | 31.97                         | 9.91                   | 33.47                      | 295                  | 328                     | P             | H             |
|                                     |      | 5118.66   | 41.62                     | -12.38                  | 54                                | 33.19                           | 31.96                         | 9.94                   | 33.47                      | 295                  | 328                     | A             | H             |
|                                     | *    | 5310  | 98.26                     | -                       | -                                 | 90.28                           | 31.3                          | 10.13                  | 33.45                      | 295                  | 328                     | P             | H             |
|                                     | *    | 5310  | 88.43                     | -                       | -                                 | 80.45                           | 31.3                          | 10.13                  | 33.45                      | 295                  | 328                     | A             | H             |
|                                     |      | 5382.24   | 53.96                     | -20.04                  | 74                                | 45.78                           | 31.43                         | 10.19                  | 33.44                      | 295                  | 328                     | P             | H             |
|                                     |      | 5421.84   | 41.48                     | -12.52                  | 54                                | 33.11                           | 31.59                         | 10.22                  | 33.44                      | 295                  | 328                     | A             | H             |
|                                     |      | 5051.34   | 53.68                     | -20.32                  | 74                                | 45.48                           | 31.81                         | 9.86                   | 33.47                      | 289                  | 164                     | P             | V             |
|                                     |      | 5142.46   | 41.54                     | -12.46                  | 54                                | 33.12                           | 31.92                         | 9.97                   | 33.47                      | 289                  | 164                     | A             | V             |
| Remark                              | 3.   | No other spurious found.                                  |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |               |               |
|                                     | 4.   | All results are PASS against Peak and Average limit line. |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |               |               |



## Band 2 5250~5350MHz

## WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI                                | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT40<br>CH 54<br>5270MHz |   | 10540                | 46.37                     | -21.83                  | 68.2                              | 51.24                           | 39.78                         | 15.75                  | 60.4                       | 100                  | 0                       | P                     | H             |
|                                     |   | 15810                | 48.22                     | -25.78                  | 74                                | 48.63                           | 37.57                         | 19.69                  | 57.67                      | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10540                | 47.03                     | -21.17                  | 68.2                              | 51.9                            | 39.78                         | 15.75                  | 60.4                       | 100                  | 0                       | P                     | V             |
|                                     |   | 15810                | 46.81                     | -27.19                  | 74                                | 47.22                           | 37.57                         | 19.69                  | 57.67                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT40<br>CH 62<br>5310MHz |   | 10620                | 46.74                     | -27.26                  | 74                                | 51.65                           | 39.88                         | 15.8                   | 60.59                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15930                | 45.1                      | -28.9                   | 74                                | 45.53                           | 37.33                         | 19.74                  | 57.5                       | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10620                | 45.93                     | -28.07                  | 74                                | 50.84                           | 39.88                         | 15.8                   | 60.59                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15930                | 46.55                     | -27.45                  | 74                                | 46.98                           | 37.33                         | 19.74                  | 57.5                       | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.<br>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<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>(P/A) | Avg.<br>(H/V) |
|---------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|---------------|---------------|
| 802.11ac<br>VHT80<br>CH 58<br>5290MHz |   | 5111.86              | 54.66                     | -19.34                  | 74                                | 46.22                           | 31.98                         | 9.93                   | 33.47                      | 303                  | 312                     | P             | H             |
|                                       |   | 5131.92              | 41.46                     | -12.54                  | 54                                | 33.03                           | 31.94                         | 9.96                   | 33.47                      | 303                  | 312                     | A             | H             |
|                                       | *   | 5290                 | 89.47                     | -                       | -                                 | 81.49                           | 31.32                         | 10.11                  | 33.45                      | 303                  | 312                     | P             | H             |
|                                       | *   | 5290                 | 79.42                     | -                       | -                                 | 71.44                           | 31.32                         | 10.11                  | 33.45                      | 303                  | 312                     | A             | H             |
|                                       |   | 5443.92              | 53.37                     | -20.63                  | 74                                | 44.88                           | 31.68                         | 10.25                  | 33.44                      | 303                  | 312                     | P             | H             |
|                                       |   | 5357.04              | 41.57                     | -12.43                  | 54                                | 33.51                           | 31.33                         | 10.17                  | 33.44                      | 303                  | 312                     | A             | H             |
|                                       |   | 5122.4               | 53.95                     | -20.05                  | 74                                | 45.51                           | 31.96                         | 9.95                   | 33.47                      | 310                  | 316                     | P             | V             |
|                                       |   | 5129.54              | 41.73                     | -12.27                  | 54                                | 33.3                            | 31.94                         | 9.96                   | 33.47                      | 310                  | 316                     | A             | V             |
|                                       | *   | 5290                 | 101.13                    | -                       | -                                 | 93.15                           | 31.32                         | 10.11                  | 33.45                      | 310                  | 316                     | P             | V             |
|                                       | *   | 5290                 | 90.71                     | -                       | -                                 | 82.73                           | 31.32                         | 10.11                  | 33.45                      | 310                  | 316                     | A             | V             |
|                                       |   | 5361.12              | 58.1                      | -15.9                   | 74                                | 50.03                           | 31.34                         | 10.17                  | 33.44                      | 310                  | 316                     | P             | V             |
|                                       |   | 5361.84              | 46                        | -8                      | 54                                | 37.92                           | 31.35                         | 10.17                  | 33.44                      | 310                  | 316                     | A             | V             |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |               |               |



## Band 2 5250~5350MHz

## WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI                                  | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|---------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 58<br>5290MHz |   | 10580                | 47.62                     | -20.58                  | 68.2                              | 52.47                           | 39.86                         | 15.78                  | 60.49                      | 100                  | 0                       | P                     | H             |
|                                       |   | 15870                | 46.13                     | -27.87                  | 74                                | 46.61                           | 37.39                         | 19.71                  | 57.58                      | 100                  | 0                       | P                     | H             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                       |   | 10580                | 47.53                     | -20.67                  | 68.2                              | 52.38                           | 39.86                         | 15.78                  | 60.49                      | 100                  | 0                       | P                     | V             |
|                                       |   | 15870                | 47.24                     | -26.76                  | 74                                | 47.72                           | 37.39                         | 19.71                  | 57.58                      | 100                  | 0                       | P                     | V             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                                | 1. No other spurious found.<br>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 | Path  | Preamp | Ant | Table | Peak    | Pol.    |
|------------------------------|------|-----------|--------|--------|-------|--------|---------|-------|--------|-----|-------|---------|---------|
|                              |      |           |        |        |       |        |         |       |        |     |       | Avg.    |         |
|                              |      |           |        |        |       |        |         |       |        |     |       | ( P/A ) | ( H/V ) |
| 802.11a<br>CH 100<br>5500MHz |      | 5459.12   | 54.34  | -19.66 | 74    | 45.76  | 31.74   | 10.27 | 33.43  | 100 | 312   | P       | H       |
|                              |      | 5466.32   | 53.39  | -14.81 | 68.2  | 44.78  | 31.77   | 10.27 | 33.43  | 100 | 312   | P       | H       |
|                              |      | 5453.2    | 41.09  | -12.91 | 54    | 32.55  | 31.71   | 10.26 | 33.43  | 100 | 312   | A       | H       |
|                              | *    | 5500      | 101.2  | -      | -     | 92.42  | 31.9    | 10.31 | 33.43  | 100 | 312   | P       | H       |
|                              | *    | 5500      | 90.71  | -      | -     | 81.93  | 31.9    | 10.31 | 33.43  | 100 | 312   | A       | H       |
|                              |      |           |        |        |       |        |         |       |        |     |       |         | H       |
|                              |      | 5458.32   | 60.65  | -13.35 | 74    | 52.09  | 31.73   | 10.26 | 33.43  | 385 | 344   | P       | V       |
|                              |      | 5465.52   | 61.99  | -6.21  | 68.2  | 53.39  | 31.76   | 10.27 | 33.43  | 385 | 344   | P       | V       |
|                              |      | 5459.12   | 42.39  | -11.61 | 54    | 33.81  | 31.74   | 10.27 | 33.43  | 385 | 344   | A       | V       |
|                              | *    | 5500      | 112.32 | -      | -     | 103.54 | 31.9    | 10.31 | 33.43  | 385 | 344   | P       | V       |
| 802.11a<br>CH 116<br>5580MHz | *    | 5500      | 102.61 | -      | -     | 93.83  | 31.9    | 10.31 | 33.43  | 385 | 344   | A       | V       |
|                              |      |           |        |        |       |        |         |       |        |     |       |         | V       |
|                              |      | 5448.64   | 54.01  | -19.99 | 74    | 45.51  | 31.69   | 10.25 | 33.44  | 100 | 298   | P       | H       |
|                              |      | 5466.64   | 53.33  | -14.87 | 68.2  | 44.72  | 31.77   | 10.27 | 33.43  | 100 | 298   | P       | H       |
|                              |      | 5458.48   | 40.64  | -13.36 | 54    | 32.08  | 31.73   | 10.26 | 33.43  | 100 | 298   | A       | H       |
|                              | *    | 5580      | 100.31 | -      | -     | 91.55  | 31.8    | 10.4  | 33.44  | 100 | 298   | P       | H       |
|                              | *    | 5580      | 90.35  | -      | -     | 81.59  | 31.8    | 10.4  | 33.44  | 100 | 298   | A       | H       |
|                              |      | 5744.525  | 56.74  | -11.46 | 68.2  | 47.57  | 32.09   | 10.54 | 33.46  | 100 | 298   | P       | H       |
|                              |      | 5452      | 54.36  | -19.64 | 74    | 45.82  | 31.71   | 10.26 | 33.43  | 296 | 316   | P       | V       |
|                              |      | 5469.04   | 54.97  | -13.23 | 68.2  | 46.34  | 31.78   | 10.28 | 33.43  | 296 | 316   | P       | V       |
|                              |      | 5452.72   | 41.4   | -12.6  | 54    | 32.86  | 31.71   | 10.26 | 33.43  | 296 | 316   | A       | V       |
|                              | *    | 5580      | 114.83 | -      | -     | 106.07 | 31.8    | 10.4  | 33.44  | 296 | 316   | P       | V       |
|                              | *    | 5580      | 105.01 | -      | -     | 96.25  | 31.8    | 10.4  | 33.44  | 296 | 316   | A       | V       |
|                              |      | 5762.795  | 56.63  | -11.57 | 68.2  | 47.42  | 32.13   | 10.55 | 33.47  | 296 | 316   | P       | V       |



|                                       |               |   |        |       |      |        |       |       |       |     |     |   |   |
|---------------------------------------|---------------|---|--------|-------|------|--------|-------|-------|-------|-----|-----|---|---|
| <b>802.11a<br/>CH 140<br/>5700MHz</b> | *             | 5700  | 102.99 | -     | -    | 93.95  | 32    | 10.5  | 33.46 | 108 | 285 | P | H |
|                                       | *             | 5700  | 92.77  | -     | -    | 83.73  | 32    | 10.5  | 33.46 | 108 | 285 | A | H |
|                                       |               | 5743.56   | 56.5   | -11.7 | 68.2 | 47.34  | 32.09 | 10.53 | 33.46 | 108 | 285 | P | H |
|                                       |               |   |        |       |      |        |       |       |       |     |     |   | H |
|                                       |               |   |        |       |      |        |       |       |       |     |     |   | H |
|                                       |               |   |        |       |      |        |       |       |       |     |     |   | H |
|                                       | *             | 5700  | 115.58 | -     | -    | 106.54 | 32    | 10.5  | 33.46 | 367 | 342 | P | V |
|                                       | *             | 5700  | 105.75 | -     | -    | 96.71  | 32    | 10.5  | 33.46 | 367 | 342 | A | V |
|                                       |               | 5736.36   | 62.72  | -5.48 | 68.2 | 53.58  | 32.07 | 10.53 | 33.46 | 367 | 342 | P | V |
|                                       |               |   |        |       |      |        |       |       |       |     |     |   | V |
|                                       |               |   |        |       |      |        |       |       |       |     |     |   | V |
|                                       |               |   |        |       |      |        |       |       |       |     |     |   | V |
|                                       | <b>Remark</b> | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |        |       |      |        |       |       |       |     |     |   |   |



## Band 3 - 5470~5725MHz

## WIFI 802.11a (Harmonic @ 3m)

| WIFI                         | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11a<br>CH 100<br>5500MHz |   | 11000                | 47.72                     | -26.28                  | 74                                | 52.92                           | 40.2                          | 16.1                   | 61.5                       | 100                  | 0                       | P                     | H             |
|                              |   | 16500                | 47                        | -21.2                   | 68.2                              | 44.72                           | 39.4                          | 20.18                  | 57.3                       | 100                  | 0                       | P                     | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   | 11000                | 47.25                     | -26.75                  | 74                                | 52.45                           | 40.2                          | 16.1                   | 61.5                       | 100                  | 0                       | P                     | V             |
|                              |   | 16500                | 47.11                     | -21.09                  | 68.2                              | 44.83                           | 39.4                          | 20.18                  | 57.3                       | 100                  | 0                       | P                     | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11a<br>CH 116<br>5580MHz |   | 11160                | 46.49                     | -27.51                  | 74                                | 52.17                           | 39.62                         | 16.23                  | 61.53                      | 100                  | 0                       | P                     | H             |
|                              |   | 16740                | 51.14                     | -17.06                  | 68.2                              | 47.19                           | 40.4                          | 20.37                  | 56.82                      | 100                  | 0                       | P                     | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   | 11160                | 46.43                     | -27.57                  | 74                                | 52.11                           | 39.62                         | 16.23                  | 61.53                      | 100                  | 0                       | P                     | V             |
|                              |   | 16740                | 48.71                     | -19.49                  | 68.2                              | 44.76                           | 40.4                          | 20.37                  | 56.82                      | 100                  | 0                       | P                     | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11a<br>CH 140<br>5700MHz |   | 11400                | 47.18                     | -26.82                  | 74                                | 52.74                           | 39.6                          | 16.42                  | 61.58                      | 100                  | 0                       | P                     | H             |
|                              |   | 17100                | 49.32                     | -18.88                  | 68.2                              | 44.23                           | 40.5                          | 20.67                  | 56.08                      | 100                  | 0                       | P                     | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   | 11400                | 46.22                     | -27.78                  | 74                                | 51.78                           | 39.6                          | 16.42                  | 61.58                      | 100                  | 0                       | P                     | V             |
|                              |   | 17100                | 50.64                     | -17.56                  | 68.2                              | 45.55                           | 40.5                          | 20.67                  | 56.08                      | 100                  | 0                       | P                     | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                       | 1. No other spurious found.<br>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<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>(P/A) | Avg.<br>(H/V) |
|--------------------------------------|------|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|---------------|---------------|
| 802.11n<br>HT20<br>CH 100<br>5500MHz |      | 5426.64              | 54.61                     | -19.39                  | 74                                | 46.21                           | 31.61                         | 10.23                  | 33.44                      | 288                  | 314                     | P             | H             |
|                                      |      | 5467.92              | 58.23                     | -9.97                   | 68.2                              | 49.62                           | 31.77                         | 10.27                  | 33.43                      | 288                  | 314                     | P             | H             |
|                                      |      | 5440.4               | 40.59                     | -13.41                  | 54                                | 32.13                           | 31.66                         | 10.24                  | 33.44                      | 288                  | 314                     | A             | H             |
|                                      | *    | 5500                 | 100.69                    | -                       | -                                 | 91.91                           | 31.9                          | 10.31                  | 33.43                      | 288                  | 314                     | P             | H             |
|                                      | *    | 5500                 | 89.82                     | -                       | -                                 | 81.04                           | 31.9                          | 10.31                  | 33.43                      | 288                  | 314                     | A             | H             |
|                                      |      |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |               | H             |
|                                      |      | 5448.56              | 65.08                     | -8.92                   | 74                                | 56.58                           | 31.69                         | 10.25                  | 33.44                      | 297                  | 15                      | P             | V             |
|                                      |      | 5465.2               | 64.17                     | -4.03                   | 68.2                              | 55.57                           | 31.76                         | 10.27                  | 33.43                      | 297                  | 15                      | P             | V             |
|                                      |      | 5457.04              | 42.71                     | -11.29                  | 54                                | 34.15                           | 31.73                         | 10.26                  | 33.43                      | 297                  | 15                      | A             | V             |
|                                      | *    | 5500                 | 111.49                    | -                       | -                                 | 102.71                          | 31.9                          | 10.31                  | 33.43                      | 297                  | 15                      | P             | V             |
|                                      | *    | 5500                 | 101.1                     | -                       | -                                 | 92.32                           | 31.9                          | 10.31                  | 33.43                      | 297                  | 15                      | A             | V             |
|                                      |      |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |               | V             |
| 802.11n<br>HT20<br>CH 116<br>5580MHz |      | 5357.92              | 54.03                     | -19.97                  | 74                                | 45.97                           | 31.33                         | 10.17                  | 33.44                      | 300                  | 314                     | P             | H             |
|                                      |      | 5459.92              | 53.76                     | -20.24                  | 74                                | 45.18                           | 31.74                         | 10.27                  | 33.43                      | 300                  | 314                     | P             | H             |
|                                      |      | 5451.76              | 40.63                     | -13.37                  | 54                                | 32.09                           | 31.71                         | 10.26                  | 33.43                      | 300                  | 314                     | A             | H             |
|                                      | *    | 5580                 | 103.29                    | -                       | -                                 | 94.53                           | 31.8                          | 10.4                   | 33.44                      | 300                  | 314                     | P             | H             |
|                                      | *    | 5580                 | 92.42                     | -                       | -                                 | 83.66                           | 31.8                          | 10.4                   | 33.44                      | 300                  | 314                     | A             | H             |
|                                      |      | 5743.58              | 56.33                     | -11.87                  | 68.2                              | 47.17                           | 32.09                         | 10.53                  | 33.46                      | 300                  | 314                     | P             | H             |
|                                      |      | 5365.84              | 55.02                     | -18.98                  | 74                                | 46.93                           | 31.36                         | 10.17                  | 33.44                      | 298                  | 13                      | P             | V             |
|                                      |      | 5469.28              | 53.85                     | -14.35                  | 68.2                              | 45.22                           | 31.78                         | 10.28                  | 33.43                      | 298                  | 13                      | P             | V             |
|                                      |      | 5452.72              | 41.67                     | -12.33                  | 54                                | 33.13                           | 31.71                         | 10.26                  | 33.43                      | 298                  | 13                      | A             | V             |
|                                      | *    | 5580                 | 115.39                    | -                       | -                                 | 106.63                          | 31.8                          | 10.4                   | 33.44                      | 298                  | 13                      | P             | V             |
|                                      | *    | 5580                 | 104.72                    | -                       | -                                 | 95.96                           | 31.8                          | 10.4                   | 33.44                      | 298                  | 13                      | A             | V             |
|                                      |      | 5748.62              | 58.5                      | -9.7                    | 68.2                              | 49.32                           | 32.1                          | 10.54                  | 33.46                      | 298                  | 13                      | P             | V             |



|                                      |   |         |        |        |      |        |       |       |       |     |     |   |   |
|--------------------------------------|---|---------|--------|--------|------|--------|-------|-------|-------|-----|-----|---|---|
| 802.11n<br>HT20<br>CH 140<br>5700MHz | *   | 5700    | 100.93 | -      | -    | 91.89  | 32    | 10.5  | 33.46 | 306 | 302 | P | H |
|                                      | *   | 5700    | 90.1   | -      | -    | 81.06  | 32    | 10.5  | 33.46 | 306 | 302 | A | H |
|                                      |   | 5743.48 | 57.58  | -10.62 | 68.2 | 48.42  | 32.09 | 10.53 | 33.46 | 306 | 302 | P | H |
|                                      |   |         |        |        |      |        |       |       |       |     |     |   | H |
|                                      |   |         |        |        |      |        |       |       |       |     |     |   | H |
|                                      |   |         |        |        |      |        |       |       |       |     |     |   | H |
|                                      | *   | 5700    | 112.3  | -      | -    | 103.26 | 32    | 10.5  | 33.46 | 301 | 321 | P | V |
|                                      | *   | 5700    | 101.7  | -      | -    | 92.66  | 32    | 10.5  | 33.46 | 301 | 321 | A | V |
|                                      |   | 5725.08 | 62.43  | -5.77  | 68.2 | 53.32  | 32.05 | 10.52 | 33.46 | 301 | 321 | P | V |
|                                      |   |         |        |        |      |        |       |       |       |     |     |   | V |
|                                      |   |         |        |        |      |        |       |       |       |     |     |   | V |
|                                      |   |         |        |        |      |        |       |       |       |     |     |   | V |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |      |        |       |       |       |     |     |   |   |



## Band 3 - 5470~5725MHz

## WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI                                 | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT20<br>CH 100<br>5500MHz |   | 11000                | 47.1                      | -26.9                   | 74                                | 52.3                            | 40.2                          | 16.1                   | 61.5                       | 100                  | 0                       | P                     | H             |
|                                      |   | 16500                | 47.15                     | -21.05                  | 68.2                              | 44.87                           | 39.4                          | 20.18                  | 57.3                       | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11000                | 47.17                     | -26.83                  | 74                                | 52.37                           | 40.2                          | 16.1                   | 61.5                       | 100                  | 0                       | P                     | V             |
|                                      |   | 16500                | 47.17                     | -21.03                  | 68.2                              | 44.89                           | 39.4                          | 20.18                  | 57.3                       | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 116<br>5580MHz |   | 11160                | 46.04                     | -27.96                  | 74                                | 51.72                           | 39.62                         | 16.23                  | 61.53                      | 100                  | 0                       | P                     | H             |
|                                      |   | 16740                | 53.03                     | -15.17                  | 68.2                              | 49.08                           | 40.4                          | 20.37                  | 56.82                      | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11160                | 46.62                     | -27.38                  | 74                                | 52.3                            | 39.62                         | 16.23                  | 61.53                      | 100                  | 0                       | P                     | V             |
|                                      |   | 16740                | 49.35                     | -18.85                  | 68.2                              | 45.4                            | 40.4                          | 20.37                  | 56.82                      | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 140<br>5700MHz |   | 11400                | 45.89                     | -28.11                  | 74                                | 51.45                           | 39.6                          | 16.42                  | 61.58                      | 100                  | 0                       | P                     | H             |
|                                      |   | 17100                | 48.56                     | -19.64                  | 68.2                              | 43.47                           | 40.5                          | 20.67                  | 56.08                      | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11400                | 45.97                     | -28.03                  | 74                                | 51.53                           | 39.6                          | 16.42                  | 61.58                      | 100                  | 0                       | P                     | V             |
|                                      |   | 17100                | 48.65                     | -19.55                  | 68.2                              | 43.56                           | 40.5                          | 20.67                  | 56.08                      | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                               | 1. No other spurious found.<br>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<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A)(H/V) | Pol. |
|--------------------------------------|------|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|----------------------------|------|
| 802.11n<br>HT40<br>CH 102<br>5510MHz |      | 5455.84              | 53.23                     | -20.77                  | 74                                | 44.68                           | 31.72                         | 10.26                  | 33.43                      | 301                  | 35                      | P                          | H    |
|                                      |      | 5469.52              | 53.89                     | -14.31                  | 68.2                              | 45.26                           | 31.78                         | 10.28                  | 33.43                      | 301                  | 35                      | P                          | H    |
|                                      |      | 5452.72              | 41.67                     | -12.33                  | 54                                | 33.13                           | 31.71                         | 10.26                  | 33.43                      | 301                  | 35                      | A                          | H    |
|                                      | *    | 5510                 | 98.84                     | -                       | -                                 | 90.07                           | 31.88                         | 10.32                  | 33.43                      | 301                  | 35                      | P                          | H    |
|                                      | *    | 5510                 | 89.13                     | -                       | -                                 | 80.36                           | 31.88                         | 10.32                  | 33.43                      | 301                  | 35                      | A                          | H    |
|                                      |      | 5749.25              | 54.48                     | -13.72                  | 68.2                              | 45.3                            | 32.1                          | 10.54                  | 33.46                      | 301                  | 35                      | P                          | H    |
|                                      |      | 5455.6               | 60.53                     | -13.47                  | 74                                | 51.98                           | 31.72                         | 10.26                  | 33.43                      | 296                  | 298                     | P                          | V    |
|                                      |      | 5464.72              | 62.13                     | -6.07                   | 68.2                              | 53.53                           | 31.76                         | 10.27                  | 33.43                      | 296                  | 298                     | P                          | V    |
|                                      |      | 5452.96              | 45.84                     | -8.16                   | 54                                | 37.3                            | 31.71                         | 10.26                  | 33.43                      | 296                  | 298                     | A                          | V    |
|                                      | *    | 5510                 | 111.9                     | -                       | -                                 | 103.13                          | 31.88                         | 10.32                  | 33.43                      | 296                  | 298                     | P                          | V    |
|                                      | *    | 5510                 | 101.87                    | -                       | -                                 | 93.1                            | 31.88                         | 10.32                  | 33.43                      | 296                  | 298                     | A                          | V    |
|                                      |      | 5726.885             | 56.25                     | -11.95                  | 68.2                              | 47.14                           | 32.05                         | 10.52                  | 33.46                      | 296                  | 298                     | P                          | V    |
| 802.11n<br>HT40<br>CH 110<br>5550MHz |      | 5430.16              | 54.4                      | -19.6                   | 74                                | 45.99                           | 31.62                         | 10.23                  | 33.44                      | 155                  | 7                       | P                          | H    |
|                                      |      | 5460.4               | 53.5                      | -14.7                   | 68.2                              | 44.92                           | 31.74                         | 10.27                  | 33.43                      | 155                  | 7                       | P                          | H    |
|                                      |      | 5459.68              | 41.81                     | -12.19                  | 54                                | 33.23                           | 31.74                         | 10.27                  | 33.43                      | 155                  | 7                       | A                          | H    |
|                                      | *    | 5550                 | 101.43                    | -                       | -                                 | 92.71                           | 31.8                          | 10.36                  | 33.44                      | 155                  | 7                       | P                          | H    |
|                                      | *    | 5550                 | 91.85                     | -                       | -                                 | 83.13                           | 31.8                          | 10.36                  | 33.44                      | 155                  | 7                       | A                          | H    |
|                                      |      | 5750.195             | 55.27                     | -12.93                  | 68.2                              | 46.1                            | 32.1                          | 10.54                  | 33.47                      | 155                  | 7                       | P                          | H    |
|                                      |      | 5449.84              | 55.04                     | -18.96                  | 74                                | 46.53                           | 31.7                          | 10.25                  | 33.44                      | 320                  | 320                     | P                          | V    |
|                                      |      | 5465.92              | 56.15                     | -12.05                  | 68.2                              | 47.55                           | 31.76                         | 10.27                  | 33.43                      | 320                  | 320                     | P                          | V    |
|                                      |      | 5452.72              | 42.89                     | -11.11                  | 54                                | 34.35                           | 31.71                         | 10.26                  | 33.43                      | 320                  | 320                     | A                          | V    |
|                                      | *    | 5550                 | 114.49                    | -                       | -                                 | 105.77                          | 31.8                          | 10.36                  | 33.44                      | 320                  | 320                     | P                          | V    |
|                                      | *    | 5550                 | 103.81                    | -                       | -                                 | 95.09                           | 31.8                          | 10.36                  | 33.44                      | 320                  | 320                     | A                          | V    |
|                                      |      | 5742.32              | 54.89                     | -13.31                  | 68.2                              | 45.74                           | 32.08                         | 10.53                  | 33.46                      | 320                  | 320                     | P                          | V    |



## FCC RADIO TEST REPORT

Report No. : FR8N0846D

|                                      |   |          |        |        |      |        |       |       |       |     |     |   |   |
|--------------------------------------|---|----------|--------|--------|------|--------|-------|-------|-------|-----|-----|---|---|
| 802.11n<br>HT40<br>CH 134<br>5670MHz |   | 5385.7   | 54.43  | -19.57 | 74   | 46.24  | 31.44 | 10.19 | 33.44 | 282 | 39  | P | H |
|                                      |   | 5463.75  | 53.77  | -14.43 | 68.2 | 45.17  | 31.76 | 10.27 | 33.43 | 282 | 39  | P | H |
|                                      |   | 5451.15  | 41.62  | -12.38 | 54   | 33.09  | 31.7  | 10.26 | 33.43 | 282 | 39  | A | H |
|                                      | *   | 5670     | 99.9   | -      | -    | 91.05  | 31.82 | 10.48 | 33.45 | 282 | 39  | P | H |
|                                      | *   | 5670     | 90.39  | -      | -    | 81.54  | 31.82 | 10.48 | 33.45 | 282 | 39  | A | H |
|                                      |   | 5743.125 | 55.52  | -12.68 | 68.2 | 46.36  | 32.09 | 10.53 | 33.46 | 282 | 39  | P | H |
|                                      |   | 5409.15  | 53.96  | -20.04 | 74   | 45.65  | 31.54 | 10.21 | 33.44 | 302 | 318 | P | V |
|                                      |   | 5465.85  | 53.06  | -15.14 | 68.2 | 44.46  | 31.76 | 10.27 | 33.43 | 302 | 318 | P | V |
|                                      |   | 5452.55  | 41.88  | -12.12 | 54   | 33.34  | 31.71 | 10.26 | 33.43 | 302 | 318 | A | V |
|                                      | *   | 5670     | 112.9  | -      | -    | 104.05 | 31.82 | 10.48 | 33.45 | 302 | 318 | P | V |
|                                      | *   | 5670     | 103.23 | -      | -    | 94.38  | 31.82 | 10.48 | 33.45 | 302 | 318 | A | V |
|                                      |   | 5738.225 | 61.44  | -6.76  | 68.2 | 52.29  | 32.08 | 10.53 | 33.46 | 302 | 318 | P | V |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |          |        |        |      |        |       |       |       |     |     |   |   |



## Band 3 - 5470~5725MHz

## WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI                                 | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT40<br>CH 102<br>5510MHz |   | 11020                | 46.34                     | -27.66                  | 74                                | 51.6                            | 40.12                         | 16.12                  | 61.5                       | 100                  | 0                       | P                     | H             |
|                                      |   | 16530                | 46.15                     | -22.05                  | 68.2                              | 43.79                           | 39.4                          | 20.2                   | 57.24                      | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11020                | 45.87                     | -28.13                  | 74                                | 51.13                           | 40.12                         | 16.12                  | 61.5                       | 100                  | 0                       | P                     | V             |
|                                      |   | 16530                | 46.47                     | -21.73                  | 68.2                              | 44.11                           | 39.4                          | 20.2                   | 57.24                      | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT40<br>CH 110<br>5550MHz |   | 11100                | 46.88                     | -27.12                  | 74                                | 52.42                           | 39.8                          | 16.18                  | 61.52                      | 100                  | 0                       | P                     | H             |
|                                      |   | 16650                | 53.44                     | -14.76                  | 68.2                              | 50.34                           | 39.8                          | 20.3                   | 57                         | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11100                | 46.64                     | -27.36                  | 74                                | 52.18                           | 39.8                          | 16.18                  | 61.52                      | 100                  | 0                       | P                     | V             |
|                                      |   | 16650                | 47.71                     | -20.49                  | 68.2                              | 44.61                           | 39.8                          | 20.3                   | 57                         | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT40<br>CH 134<br>5670MHz |   | 11340                | 46.67                     | -27.33                  | 74                                | 52.32                           | 39.54                         | 16.38                  | 61.57                      | 100                  | 0                       | P                     | H             |
|                                      |   | 17010                | 50.3                      | -17.9                   | 68.2                              | 45.49                           | 40.5                          | 20.59                  | 56.28                      | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11340                | 46.31                     | -27.69                  | 74                                | 51.96                           | 39.54                         | 16.38                  | 61.57                      | 100                  | 0                       | P                     | V             |
|                                      |   | 17010                | 48.64                     | -19.56                  | 68.2                              | 43.83                           | 40.5                          | 20.59                  | 56.28                      | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                               | 1. No other spurious found.<br>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<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>(P/A) | Avg.<br>(H/V) |
|--|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|---------------|---------------|
| 802.11ac<br>VHT80<br>CH 106<br>5530MHz |   | 5437.12              | 54.19                     | -19.81                  | 74                                | 45.74                           | 31.65                         | 10.24                  | 33.44                      | 303                  | 316                     | P             | H             |
|  |   | 5461.84              | 54.66                     | -13.54                  | 68.2                              | 46.07                           | 31.75                         | 10.27                  | 33.43                      | 303                  | 316                     | P             | H             |
|  |   | 5457.28              | 42                        | -12                     | 54                                | 33.44                           | 31.73                         | 10.26                  | 33.43                      | 303                  | 316                     | A             | H             |
|  | *   | 5530                 | 96.19                     | -                       | -                                 | 87.44                           | 31.84                         | 10.34                  | 33.43                      | 303                  | 316                     | P             | H             |
|  | *   | 5530                 | 85.92                     | -                       | -                                 | 77.17                           | 31.84                         | 10.34                  | 33.43                      | 303                  | 316                     | A             | H             |
|  |   | 5749.25              | 54.37                     | -13.83                  | 68.2                              | 45.19                           | 32.1                          | 10.54                  | 33.46                      | 303                  | 316                     | P             | H             |
|  |   | 5459.44              | 60.85                     | -13.15                  | 74                                | 52.27                           | 31.74                         | 10.27                  | 33.43                      | 317                  | 322                     | P             | V             |
|  |   | 5463.28              | 62.51                     | -5.69                   | 68.2                              | 53.92                           | 31.75                         | 10.27                  | 33.43                      | 317                  | 322                     | P             | V             |
|  |   | 5459.92              | 48.29                     | -5.71                   | 54                                | 39.71                           | 31.74                         | 10.27                  | 33.43                      | 317                  | 322                     | A             | V             |
|  | *   | 5530                 | 108.19                    | -                       | -                                 | 99.44                           | 31.84                         | 10.34                  | 33.43                      | 317                  | 322                     | P             | V             |
|  | *   | 5530                 | 98.1                      | -                       | -                                 | 89.35                           | 31.84                         | 10.34                  | 33.43                      | 317                  | 322                     | A             | V             |
|  |   | 5726.885             | 54.89                     | -13.31                  | 68.2                              | 45.78                           | 32.05                         | 10.52                  | 33.46                      | 317                  | 322                     | P             | V             |
| 802.11ac<br>VHT80<br>CH 122<br>5610MHz |   | 5435.44              | 54.16                     | -19.84                  | 74                                | 45.72                           | 31.64                         | 10.24                  | 33.44                      | 303                  | 302                     | P             | H             |
|  |   | 5468.32              | 52.68                     | -15.52                  | 68.2                              | 44.06                           | 31.77                         | 10.28                  | 33.43                      | 303                  | 302                     | P             | H             |
|  |   | 5429.68              | 41.28                     | -12.72                  | 54                                | 32.87                           | 31.62                         | 10.23                  | 33.44                      | 303                  | 302                     | A             | H             |
|  | *   | 5610                 | 99.85                     | -                       | -                                 | 91.09                           | 31.78                         | 10.43                  | 33.45                      | 303                  | 302                     | P             | H             |
|  | *   | 5610                 | 89.58                     | -                       | -                                 | 80.82                           | 31.78                         | 10.43                  | 33.45                      | 303                  | 302                     | A             | H             |
|  |   | 5762.48              | 58.26                     | -9.94                   | 68.2                              | 49.06                           | 32.12                         | 10.55                  | 33.47                      | 303                  | 302                     | P             | H             |
|  |   | 5458.72              | 55.63                     | -18.37                  | 74                                | 47.07                           | 31.73                         | 10.26                  | 33.43                      | 306                  | 319                     | P             | V             |
|  |   | 5466.88              | 57.99                     | -10.21                  | 68.2                              | 49.38                           | 31.77                         | 10.27                  | 33.43                      | 306                  | 319                     | P             | V             |
|  |   | 5442.88              | 43.51                     | -10.49                  | 54                                | 35.03                           | 31.67                         | 10.25                  | 33.44                      | 306                  | 319                     | A             | V             |
|  | *   | 5610                 | 112.08                    | -                       | -                                 | 103.32                          | 31.78                         | 10.43                  | 33.45                      | 306                  | 319                     | P             | V             |
|  | *   | 5610                 | 101.69                    | -                       | -                                 | 92.93                           | 31.78                         | 10.43                  | 33.45                      | 306                  | 319                     | A             | V             |
|  |   | 5726.255             | 61.61                     | -6.59                   | 68.2                              | 52.5                            | 32.05                         | 10.52                  | 33.46                      | 306                  | 319                     | P             | V             |
| Remark                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |               |               |



## Band 3 5470~5725MHz

## WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI                                   | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 106<br>5530MHz |   | 11060                | 45.74                     | -28.26                  | 74                                | 51.14                           | 39.96                         | 16.15                  | 61.51                      | 100                  | 0                       | P                     | H             |
|  |   | 16590                | 46.83                     | -21.37                  | 68.2                              | 44.3                            | 39.4                          | 20.25                  | 57.12                      | 100                  | 0                       | P                     | H             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|  |   | 11060                | 45.25                     | -28.75                  | 74                                | 50.65                           | 39.96                         | 16.15                  | 61.51                      | 100                  | 0                       | P                     | V             |
|  |   | 16590                | 46.54                     | -21.66                  | 68.2                              | 44.01                           | 39.4                          | 20.25                  | 57.12                      | 100                  | 0                       | P                     | V             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11ac<br>VHT80<br>CH 122<br>5610MHz |   | 11220                | 45.56                     | -28.44                  | 74                                | 51.32                           | 39.5                          | 16.28                  | 61.54                      | 100                  | 0                       | P                     | H             |
|  |   | 16830                | 47.58                     | -20.62                  | 68.2                              | 43.25                           | 40.52                         | 20.45                  | 56.64                      | 100                  | 0                       | P                     | H             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|  |   | 11220                | 45.88                     | -28.12                  | 74                                | 51.64                           | 39.5                          | 16.28                  | 61.54                      | 100                  | 0                       | P                     | V             |
|  |   | 16830                | 47.91                     | -20.29                  | 68.2                              | 43.58                           | 40.52                         | 20.45                  | 56.64                      | 100                  | 0                       | P                     | V             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 3 - Straddle Channel

## WIFI 802.11a (Band Edge @ 3m)

| WIFI                         | Note  | Frequency | Level  | Over   | Limit | Read   | Antenna | Path  | Preamp | Ant | Table | Peak   | Pol.   |
|------------------------------|---|-----------|--------|--------|-------|--------|---------|-------|--------|-----|-------|--------|--------|
|                              |   |           |        |        |       |        |         |       |        |     |       | Limit  | Line   |
|                              |   |           |        |        |       |        |         |       |        |     |       | Factor | Factor |
| 802.11a<br>CH 144<br>5720MHz |   | 5440.09   | 53.41  | -20.59 | 74    | 44.95  | 31.66   | 10.24 | 33.44  | 100 | 285   | P      | H      |
|                              |   | 5459.98   | 52.51  | -21.49 | 74    | 43.93  | 31.74   | 10.27 | 33.43  | 100 | 285   | P      | H      |
|                              |   | 5438.92   | 40.55  | -13.45 | 54    | 32.09  | 31.66   | 10.24 | 33.44  | 100 | 285   | A      | H      |
|                              | *   | 5720      | 98.19  | -      | -     | 89.09  | 32.04   | 10.52 | 33.46  | 100 | 285   | P      | H      |
|                              | *   | 5720      | 88.07  | -      | -     | 78.97  | 32.04   | 10.52 | 33.46  | 100 | 285   | A      | H      |
|                              |   | 5928.75   | 55.2   | -13    | 68.2  | 45.5   | 32.51   | 10.68 | 33.49  | 100 | 285   | P      | H      |
|                              |   | 5377.3    | 54.34  | -19.66 | 74    | 46.19  | 31.41   | 10.18 | 33.44  | 288 | 299   | P      | V      |
|                              |   | 5465.83   | 53.98  | -14.22 | 68.2  | 45.38  | 31.76   | 10.27 | 33.43  | 288 | 299   | P      | V      |
|                              |   | 5438.92   | 40.75  | -13.25 | 54    | 32.29  | 31.66   | 10.24 | 33.44  | 288 | 299   | A      | V      |
|                              | *   | 5720      | 112.69 | -      | -     | 103.59 | 32.04   | 10.52 | 33.46  | 288 | 299   | P      | V      |
|                              | *   | 5720      | 103.16 | -      | -     | 94.06  | 32.04   | 10.52 | 33.46  | 288 | 299   | A      | V      |
|                              |   | 5923.5    | 57.67  | -10.53 | 68.2  | 48     | 32.49   | 10.67 | 33.49  | 288 | 299   | P      | V      |
| Remark                       | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |        |        |       |        |         |       |        |     |       |        |        |



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

| WIFI                         | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11a<br>CH 144<br>5720MHz |   | 11440                | 46.32                     | -27.68                  | 74                                | 51.78                           | 39.68                         | 16.45                  | 61.59                      | 100                  | 0                       | P                     | H             |
|                              |   | 17160                | 49.04                     | -19.16                  | 68.2                              | 43.72                           | 40.56                         | 20.71                  | 55.95                      | 100                  | 0                       | P                     | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   | 11440                | 46.4                      | -27.6                   | 74                                | 51.86                           | 39.68                         | 16.45                  | 61.59                      | 100                  | 0                       | P                     | V             |
|                              |   | 17160                | 49.47                     | -18.73                  | 68.2                              | 44.15                           | 40.56                         | 20.71                  | 55.95                      | 100                  | 0                       | P                     | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                       | 1. No other spurious found.<br>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<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A)(H/V) | Pol. |
|--------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|----------------------------|------|
| 802.11n<br>HT20<br>CH 144<br>5720MHz |   | 5437.36              | 53.98                     | -20.02                  | 74                                | 45.53                           | 31.65                         | 10.24                  | 33.44                      | 300                  | 36                      | P                          | H    |
|                                      |   | 5460.37              | 53.68                     | -14.52                  | 68.2                              | 45.1                            | 31.74                         | 10.27                  | 33.43                      | 300                  | 36                      | P                          | H    |
|                                      |   | 5428.78              | 40.62                     | -13.38                  | 54                                | 32.21                           | 31.62                         | 10.23                  | 33.44                      | 300                  | 36                      | A                          | H    |
|                                      | *   | 5720                 | 100.47                    | -                       | -                                 | 91.37                           | 32.04                         | 10.52                  | 33.46                      | 300                  | 36                      | P                          | H    |
|                                      | *   | 5720                 | 90.74                     | -                       | -                                 | 81.64                           | 32.04                         | 10.52                  | 33.46                      | 300                  | 36                      | A                          | H    |
|                                      |   | 5932.75              | 55.83                     | -12.37                  | 68.2                              | 46.11                           | 32.53                         | 10.68                  | 33.49                      | 300                  | 36                      | P                          | H    |
|                                      |   | 5443.99              | 54.13                     | -19.87                  | 74                                | 45.64                           | 31.68                         | 10.25                  | 33.44                      | 282                  | 36                      | P                          | V    |
|                                      |   | 5466.61              | 53.84                     | -14.36                  | 68.2                              | 45.23                           | 31.77                         | 10.27                  | 33.43                      | 282                  | 36                      | P                          | V    |
|                                      |   | 5452.18              | 40.72                     | -13.28                  | 54                                | 32.18                           | 31.71                         | 10.26                  | 33.43                      | 282                  | 36                      | A                          | V    |
|                                      | *   | 5720                 | 112.29                    | -                       | -                                 | 103.19                          | 32.04                         | 10.52                  | 33.46                      | 282                  | 36                      | P                          | V    |
|                                      | *   | 5720                 | 102.12                    | -                       | -                                 | 93.02                           | 32.04                         | 10.52                  | 33.46                      | 282                  | 36                      | A                          | V    |
|                                      |   | 5941.75              | 57.03                     | -11.17                  | 68.2                              | 47.26                           | 32.57                         | 10.69                  | 33.49                      | 282                  | 36                      | P                          | V    |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            |      |



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

| WIFI                                 | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT20<br>CH 144<br>5720MHz |   | 11440                | 46.47                     | -27.53                  | 74                                | 51.93                           | 39.68                         | 16.45                  | 61.59                      | 100                  | 0                       | P                     | H             |
|                                      |   | 17160                | 48.97                     | -19.23                  | 68.2                              | 43.65                           | 40.56                         | 20.71                  | 55.95                      | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11440                | 46.46                     | -27.54                  | 74                                | 51.92                           | 39.68                         | 16.45                  | 61.59                      | 100                  | 0                       | P                     | V             |
|                                      |   | 17160                | 49.28                     | -18.92                  | 68.2                              | 43.96                           | 40.56                         | 20.71                  | 55.95                      | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 3 - Straddle Channel

## WIFI 802.11n HT40 (Band Edge @ 3m)

| WIFI                                 | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A)(H/V) | Pol. |
|--------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|----------------------------|------|
| 802.11n<br>HT40<br>CH 142<br>5710MHz |   | 5395.24              | 54.79                     | -19.21                  | 74                                | 46.55                           | 31.48                         | 10.2                   | 33.44                      | 294                  | 312                     | P                          | H    |
|                                      |   | 5468.56              | 52.97                     | -15.23                  | 68.2                              | 44.35                           | 31.77                         | 10.28                  | 33.43                      | 294                  | 312                     | P                          | H    |
|                                      |   | 5447.5               | 41.4                      | -12.6                   | 54                                | 32.9                            | 31.69                         | 10.25                  | 33.44                      | 294                  | 312                     | A                          | H    |
|                                      | *   | 5710                 | 102.33                    | -                       | -                                 | 93.26                           | 32.02                         | 10.51                  | 33.46                      | 294                  | 312                     | P                          | H    |
|                                      | *   | 5710                 | 92.17                     | -                       | -                                 | 83.1                            | 32.02                         | 10.51                  | 33.46                      | 294                  | 312                     | A                          | H    |
|                                      |   | 5870.5               | 56.12                     | -12.08                  | 68.2                              | 46.63                           | 32.34                         | 10.63                  | 33.48                      | 294                  | 312                     | P                          | H    |
|                                      |   | 5424.88              | 53.15                     | -20.85                  | 74                                | 44.76                           | 31.6                          | 10.23                  | 33.44                      | 308                  | 330                     | P                          | V    |
|                                      |   | 5459.98              | 52.77                     | -21.23                  | 74                                | 44.19                           | 31.74                         | 10.27                  | 33.43                      | 308                  | 330                     | P                          | V    |
|                                      |   | 5432.29              | 41.75                     | -12.25                  | 54                                | 33.32                           | 31.63                         | 10.24                  | 33.44                      | 308                  | 330                     | A                          | V    |
|                                      | *   | 5710                 | 114.31                    | -                       | -                                 | 105.24                          | 32.02                         | 10.51                  | 33.46                      | 308                  | 330                     | P                          | V    |
|                                      | *   | 5710                 | 104.23                    | -                       | -                                 | 95.16                           | 32.02                         | 10.51                  | 33.46                      | 308                  | 330                     | A                          | V    |
|                                      |   | 5933.75              | 57.88                     | -10.32                  | 68.2                              | 48.16                           | 32.53                         | 10.68                  | 33.49                      | 308                  | 330                     | P                          | V    |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            |      |



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

| WIFI                                 | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT40<br>CH 142<br>5710MHz |   | 11420                | 46.97                     | -27.03                  | 74                                | 52.48                           | 39.64                         | 16.43                  | 61.58                      | 100                  | 0                       | P                     | H             |
|                                      |   | 17130                | 49.27                     | -18.93                  | 68.2                              | 44.05                           | 40.53                         | 20.7                   | 56.01                      | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11420                | 47.1                      | -26.9                   | 74                                | 52.61                           | 39.64                         | 16.43                  | 61.58                      | 100                  | 0                       | P                     | V             |
|                                      |   | 17130                | 49.44                     | -18.76                  | 68.2                              | 44.22                           | 40.53                         | 20.7                   | 56.01                      | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 3 - Straddle Channel

## WIFI 802.11ac VHT80 (Band Edge @ 3m)

| WIFI                                   | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>(P/A) | Avg.<br>(H/V) |
|--|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|---------------|---------------|
| 802.11ac<br>VHT80<br>CH 138<br>5690MHz |   | 5458.03              | 53.82                     | -20.18                  | 74                                | 45.26                           | 31.73                         | 10.26                  | 33.43                      | 300                  | 302                     | P             | H             |
|  |   | 5460.37              | 53.79                     | -14.41                  | 68.2                              | 45.21                           | 31.74                         | 10.27                  | 33.43                      | 300                  | 302                     | P             | H             |
|  |   | 5459.59              | 41.27                     | -12.73                  | 54                                | 32.69                           | 31.74                         | 10.27                  | 33.43                      | 300                  | 302                     | A             | H             |
|  | *   | 5690                 | 100.79                    | -                       | -                                 | 91.82                           | 31.94                         | 10.49                  | 33.46                      | 300                  | 302                     | P             | H             |
|  | *   | 5690                 | 90.25                     | -                       | -                                 | 81.28                           | 31.94                         | 10.49                  | 33.46                      | 300                  | 302                     | A             | H             |
|  |   | 5861.75              | 54.88                     | -13.32                  | 68.2                              | 45.41                           | 32.32                         | 10.63                  | 33.48                      | 300                  | 302                     | P             | H             |
|  |   | 5441.65              | 53.87                     | -20.13                  | 74                                | 45.39                           | 31.67                         | 10.25                  | 33.44                      | 306                  | 321                     | P             | V             |
|  |   | 5467                 | 53.23                     | -14.97                  | 68.2                              | 44.62                           | 31.77                         | 10.27                  | 33.43                      | 306                  | 321                     | P             | V             |
|  |   | 5444.38              | 41.7                      | -12.3                   | 54                                | 33.21                           | 31.68                         | 10.25                  | 33.44                      | 306                  | 321                     | A             | V             |
|  | *   | 5690                 | 113.96                    | -                       | -                                 | 104.99                          | 31.94                         | 10.49                  | 33.46                      | 306                  | 321                     | P             | V             |
|  | *   | 5690                 | 102.66                    | -                       | -                                 | 93.69                           | 31.94                         | 10.49                  | 33.46                      | 306                  | 321                     | A             | V             |
|  |   | 5850.25              | 61.59                     | -6.61                   | 68.2                              | 52.15                           | 32.3                          | 10.62                  | 33.48                      | 306                  | 321                     | P             | V             |
| Remark                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |               |               |



## Band 3 - Straddle Channel

WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI                                   | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 138<br>5690MHz |   | 11380                | 46.1                      | -27.9                   | 74                                | 51.69                           | 39.58                         | 16.41                  | 61.58                      | 100                  | 0                       | P                     | H             |
|  |   | 17070                | 52.95                     | -15.25                  | 68.2                              | 47.96                           | 40.5                          | 20.64                  | 56.15                      | 100                  | 0                       | P                     | H             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|  |   | 11380                | 46.31                     | -27.69                  | 74                                | 51.9                            | 39.58                         | 16.41                  | 61.58                      | 100                  | 0                       | P                     | V             |
|  |   | 17070                | 52.09                     | -16.11                  | 68.2                              | 47.1                            | 40.5                          | 20.64                  | 56.15                      | 100                  | 0                       | P                     | V             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Emission below 1GHz

## WIFI 802.11n HT20 (LF @ 3m)

| WIFI                  | Note   | Frequency  | Level | Over   | Limit | Read  | Antenna | Path | Preamp | Ant | Table | Peak  | Pol.  |
|-----------------------|--------|--|-------|--------|-------|-------|---------|------|--------|-----|-------|-------|-------|
|                       |        |  |       |        |       |       |         |      |        |     |       | Avg.  |       |
|                       |        |  |       |        |       |       |         |      |        |     |       | (P/A) | (H/V) |
| 802.11n<br>HT20<br>LF |        | 52.31  | 31.65 | -8.35  | 40    | 47.71 | 13.37   | 1.04 | 30.47  | -   | -     | P     | H     |
|                       |        | 101.78   | 34.08 | -9.42  | 43.5  | 47.04 | 16.01   | 1.46 | 30.43  | -   | -     | P     | H     |
|                       |        | 194.9  | 30.38 | -13.12 | 43.5  | 43.9  | 14.83   | 1.98 | 30.33  | -   | -     | P     | H     |
|                       |        | 839.95   | 33.23 | -12.77 | 46    | 29.93 | 28.46   | 4.07 | 29.23  | -   | -     | P     | H     |
|                       |        | 892.33   | 37.79 | -8.21  | 46    | 33.77 | 28.94   | 4.23 | 29.15  | 100 | 0     | P     | H     |
|                       |        | 958.29   | 36.2  | -9.8   | 46    | 29.83 | 30.88   | 4.46 | 28.97  | -   | -     | P     | H     |
|                       |        |  |       |        |       |       |         |      |        |     |       |       | H     |
|                       |        |  |       |        |       |       |         |      |        |     |       |       | H     |
|                       |        |  |       |        |       |       |         |      |        |     |       |       | H     |
|                       |        |  |       |        |       |       |         |      |        |     |       |       | H     |
|                       |        |  |       |        |       |       |         |      |        |     |       |       | H     |
|                       |        |  |       |        |       |       |         |      |        |     |       |       | V     |
|                       |        | 52.31  | 33.91 | -6.09  | 40    | 49.97 | 13.37   | 1.04 | 30.47  | 100 | 0     | P     | V     |
|                       |        | 101.78   | 33.21 | -10.29 | 43.5  | 46.17 | 16.01   | 1.46 | 30.43  | -   | -     | P     | V     |
|                       |        | 119.24   | 36.13 | -7.37  | 43.5  | 47.87 | 17.2    | 1.47 | 30.41  | -   | -     | P     | V     |
|                       |        | 887.48   | 39.18 | -6.82  | 46    | 35.15 | 28.97   | 4.22 | 29.16  | -   | -     | P     | V     |
|                       |        | 894.27   | 39.47 | -6.53  | 46    | 35.45 | 28.93   | 4.24 | 29.15  | -   | -     | P     | V     |
|                       |        | 955.38   | 35.25 | -10.75 | 46    | 29    | 30.77   | 4.46 | 28.98  | -   | -     | P     | V     |
|                       |        |  |       |        |       |       |         |      |        |     |       |       | V     |
|                       |        |  |       |        |       |       |         |      |        |     |       |       | V     |
|                       |        |  |       |        |       |       |         |      |        |     |       |       | V     |
|                       |        |  |       |        |       |       |         |      |        |     |       |       | V     |
|                       |        |  |       |        |       |       |         |      |        |     |       |       | V     |
|                       | Remark | 1. No other spurious found.<br>2. All results are PASS against limit line. |       |        |       |       |         |      |        |     |       |       |       |

**Note symbol**

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



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

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

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dB $\mu$ V/m) = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dB $\mu$ V) - Preamp Factor(dB)
3. Over Limit(dB) = Level(dB $\mu$ V/m) – Limit Line(dB $\mu$ V/m)

#### For Peak Limit @ 2390MHz:

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

#### For Average Limit @ 2390MHz:

1. Level(dB $\mu$ V/m)  
 $= \text{Antenna Factor(dB/m)} + \text{Path Loss(dB)} + \text{Read Level(dB}\mu\text{V)} - \text{Preamp Factor(dB)}$   
 $= 32.22(\text{dB}/\text{m}) + 4.58(\text{dB}) + 42.6(\text{dB}\mu\text{V}) - 35.86 (\text{dB})$   
 $= 43.54 (\text{dB}\mu\text{V}/\text{m})$
2. Over Limit(dB) = Level(dB $\mu$ V/m) – Limit Line(dB $\mu$ V/m)  
 $= 43.54(\text{dB}\mu\text{V}/\text{m}) - 54(\text{dB}\mu\text{V}/\text{m})$   
 $= -10.46(\text{dB})$

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



&lt;For Antenna 4&gt;

&lt;Chain 1&gt;

## Band 1 - 5150~5250MHz

## WIFI 802.11a (Band Edge @ 3m)

| WIFI                        | Note | Frequency | Level            | Over Limit | Limit Line       | Read Level   | Antenna Factor | Path Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol.  |
|-----------------------------|------|-----------|------------------|------------|------------------|--------------|----------------|-----------|---------------|---------|-----------|-----------|-------|
|                             |      | ( MHz )   | ( dB $\mu$ V/m ) | ( dB )     | ( dB $\mu$ V/m ) | (dB $\mu$ V) | ( dB/m )       | ( dB )    | ( dB )        | ( cm )  | ( deg )   | (P/A)     | (H/V) |
| 802.11a<br>CH 36<br>5180MHz |      | 5146.38   | 68.04            | -5.96      | 74               | 59.62        | 31.91          | 9.98      | 33.47         | 296     | 283       | P         | H     |
|                             |      | 5150      | 49.1             | -4.9       | 54               | 40.69        | 31.9           | 9.98      | 33.47         | 296     | 283       | A         | H     |
|                             | *    | 5180      | 117.29           | -          | -                | 108.95       | 31.78          | 10.02     | 33.46         | 296     | 283       | P         | H     |
|                             | *    | 5180      | 107.11           | -          | -                | 98.77        | 31.78          | 10.02     | 33.46         | 296     | 283       | A         | H     |
|                             |      |           |                  |            |                  |              |                |           |               |         |           |           | H     |
|                             |      |           |                  |            |                  |              |                |           |               |         |           |           | H     |
|                             |      | 5148.72   | 63.73            | -10.27     | 74               | 55.32        | 31.9           | 9.98      | 33.47         | 399     | 25        | P         | V     |
|                             |      | 5150      | 44.39            | -9.61      | 54               | 35.98        | 31.9           | 9.98      | 33.47         | 399     | 25        | A         | V     |
|                             | *    | 5180      | 112.24           | -          | -                | 103.9        | 31.78          | 10.02     | 33.46         | 399     | 25        | P         | V     |
|                             | *    | 5180      | 102.02           | -          | -                | 93.68        | 31.78          | 10.02     | 33.46         | 399     | 25        | A         | V     |
| 802.11a<br>CH 44<br>5220MHz |      |           |                  |            |                  |              |                |           |               |         |           |           | V     |
|                             |      | 5147.42   | 57.85            | -16.15     | 74               | 49.43        | 31.91          | 9.98      | 33.47         | 295     | 283       | P         | H     |
|                             |      | 5145.6    | 42.79            | -11.21     | 54               | 34.38        | 31.91          | 9.97      | 33.47         | 295     | 283       | A         | H     |
|                             | *    | 5220      | 117.6            | -          | -                | 109.42       | 31.58          | 10.06     | 33.46         | 295     | 283       | P         | H     |
|                             | *    | 5220      | 107.32           | -          | -                | 99.14        | 31.58          | 10.06     | 33.46         | 295     | 283       | A         | H     |
|                             |      | 5376.28   | 55.14            | -18.86     | 74               | 46.99        | 31.41          | 10.18     | 33.44         | 295     | 283       | P         | H     |
|                             |      | 5453      | 42.17            | -11.83     | 54               | 33.63        | 31.71          | 10.26     | 33.43         | 295     | 283       | A         | H     |
|                             |      | 5045.76   | 54.27            | -19.73     | 74               | 46.13        | 31.77          | 9.85      | 33.48         | 369     | 29        | P         | V     |
|                             |      | 5147.16   | 40.9             | -13.1      | 54               | 32.48        | 31.91          | 9.98      | 33.47         | 369     | 29        | A         | V     |
|                             | *    | 5220      | 112.1            | -          | -                | 103.92       | 31.58          | 10.06     | 33.46         | 369     | 29        | P         | V     |
|                             | *    | 5220      | 101.9            | -          | -                | 93.72        | 31.58          | 10.06     | 33.46         | 369     | 29        | A         | V     |
|                             |      | 5460      | 54.23            | -19.77     | 74               | 45.65        | 31.74          | 10.27     | 33.43         | 369     | 29        | P         | V     |
|                             |      | 5367.04   | 40.61            | -13.39     | 54               | 32.51        | 31.37          | 10.17     | 33.44         | 369     | 29        | A         | V     |



|           |  | 5147.94   | 54.85  | -19.15 | 74 | 46.44  | 31.9  | 9.98  | 33.47 | 309 | 284 | P | H |
|-----------|--|---|--------|--------|----|--------|-------|-------|-------|-----|-----|---|---|
|           |  | 5149.5  | 41.84  | -12.16 | 54 | 33.43  | 31.9  | 9.98  | 33.47 | 309 | 284 | A | H |
| * 802.11a |  | 5240  | 117.27 | -      | -  | 109.2  | 31.46 | 10.07 | 33.46 | 309 | 284 | P | H |
| CH 48     |  | 5240  | 106.92 | -      | -  | 98.85  | 31.46 | 10.07 | 33.46 | 309 | 284 | A | H |
| 5240MHz   |  | 5360.32   | 57.16  | -16.84 | 74 | 49.09  | 31.34 | 10.17 | 33.44 | 309 | 284 | P | H |
|           |  | 5374.32   | 42.45  | -11.55 | 54 | 34.31  | 31.4  | 10.18 | 33.44 | 309 | 284 | A | H |
|           |  | 5143  | 53.91  | -20.09 | 74 | 45.5   | 31.91 | 9.97  | 33.47 | 364 | 3   | P | V |
|           |  | 5148.2  | 40.58  | -13.42 | 54 | 32.17  | 31.9  | 9.98  | 33.47 | 364 | 3   | A | V |
|           |  | * 5240  | 110.58 | -      | -  | 102.51 | 31.46 | 10.07 | 33.46 | 364 | 3   | P | V |
|           |  | * 5240  | 100.65 | -      | -  | 92.58  | 31.46 | 10.07 | 33.46 | 364 | 3   | A | V |
|           |  | 5356.12   | 54.1   | -19.9  | 74 | 46.06  | 31.32 | 10.16 | 33.44 | 364 | 3   | P | V |
|           |  | 5386.36   | 40.5   | -13.5  | 54 | 32.3   | 31.45 | 10.19 | 33.44 | 364 | 3   | A | V |
| Remark    |  | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |        |        |    |        |       |       |       |     |     |   |   |



**Band 1 5150~5250MHz**  
**WIFI 802.11a (Harmonic @ 3m)**

| WIFI                                | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11a<br><br>CH 36<br><br>5180MHz |   | 10360                | 47.25                     | -20.95                  | 68.2                              | 52.06                           | 39.58                         | 15.6                   | 59.99                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15540                | 61.15                     | -12.85                  | 74                                | 61.38                           | 38.22                         | 19.59                  | 58.04                      | 203                  | 193                     | P                     | H             |
|                                     |   | 15540                | 47.43                     | -6.57                   | 54                                | 47.66                           | 38.22                         | 19.59                  | 58.04                      | 203                  | 193                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10360                | 47.23                     | -20.97                  | 68.2                              | 52.04                           | 39.58                         | 15.6                   | 59.99                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15540                | 60.31                     | -13.69                  | 74                                | 60.54                           | 38.22                         | 19.59                  | 58.04                      | 201                  | 190                     | P                     | V             |
|                                     |   | 15540                | 46.86                     | -7.14                   | 54                                | 47.09                           | 38.22                         | 19.59                  | 58.04                      | 201                  | 190                     | A                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11a<br><br>CH 44<br><br>5220MHz |   | 10440                | 47.4                      | -20.8                   | 68.2                              | 52.2                            | 39.7                          | 15.67                  | 60.17                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15660                | 65.54                     | -8.46                   | 74                                | 65.98                           | 37.8                          | 19.64                  | 57.88                      | 202                  | 162                     | P                     | H             |
|                                     |   | 15660                | 50.82                     | -3.18                   | 54                                | 51.26                           | 37.8                          | 19.64                  | 57.88                      | 202                  | 162                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10440                | 46.96                     | -21.24                  | 68.2                              | 51.76                           | 39.7                          | 15.67                  | 60.17                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15660                | 64.34                     | -9.66                   | 74                                | 64.78                           | 37.8                          | 19.64                  | 57.88                      | 200                  | 182                     | P                     | V             |
|                                     |   | 15660                | 49.69                     | -4.31                   | 54                                | 50.13                           | 37.8                          | 19.64                  | 57.88                      | 200                  | 182                     | A                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11a<br><br>CH 48<br><br>5240MHz |   | 10480                | 47.62                     | -20.58                  | 68.2                              | 52.48                           | 39.7                          | 15.7                   | 60.26                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15720                | 64.34                     | -9.66                   | 74                                | 64.72                           | 37.76                         | 19.65                  | 57.79                      | 217                  | 164                     | P                     | H             |
|                                     |   | 15720                | 49.22                     | -4.78                   | 54                                | 49.6                            | 37.76                         | 19.65                  | 57.79                      | 217                  | 164                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10480                | 47.04                     | -21.16                  | 68.2                              | 51.9                            | 39.7                          | 15.7                   | 60.26                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15720                | 62.52                     | -11.48                  | 74                                | 62.9                            | 37.76                         | 19.65                  | 57.79                      | 202                  | 188                     | P                     | V             |
|                                     |   | 15720                | 47.34                     | -6.66                   | 54                                | 47.72                           | 37.76                         | 19.65                  | 57.79                      | 202                  | 188                     | A                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 1 5150~5250MHz

## WIFI 802.11n HT20 (Band Edge @ 3m)

| WIFI                                | Note | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A)(H/V) | Pol. |
|-------------------------------------|------|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|----------------------------|------|
| 802.11n<br>HT20<br>CH 36<br>5180MHz |      | 5144.3               | 67.08                     | -6.92                   | 74                                | 58.67                           | 31.91                         | 9.97                   | 33.47                      | 246                  | 289                     | P                          | H    |
|                                     |      | 5149.76              | 48.34                     | -5.66                   | 54                                | 39.93                           | 31.9                          | 9.98                   | 33.47                      | 246                  | 289                     | A                          | H    |
|                                     | *    | 5180                 | 115.95                    | -                       | -                                 | 107.61                          | 31.78                         | 10.02                  | 33.46                      | 246                  | 289                     | P                          | H    |
|                                     | *    | 5180                 | 105.32                    | -                       | -                                 | 96.98                           | 31.78                         | 10.02                  | 33.46                      | 246                  | 289                     | A                          | H    |
|                                     |      |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            | H    |
|                                     |      |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            | H    |
|                                     |      | 5148.46              | 61.16                     | -12.84                  | 74                                | 52.75                           | 31.9                          | 9.98                   | 33.47                      | 377                  | 24                      | P                          | V    |
|                                     |      | 5149.5               | 43.59                     | -10.41                  | 54                                | 35.18                           | 31.9                          | 9.98                   | 33.47                      | 377                  | 24                      | A                          | V    |
|                                     | *    | 5180                 | 111.57                    | -                       | -                                 | 103.23                          | 31.78                         | 10.02                  | 33.46                      | 377                  | 24                      | P                          | V    |
|                                     | *    | 5180                 | 100.83                    | -                       | -                                 | 92.49                           | 31.78                         | 10.02                  | 33.46                      | 377                  | 24                      | A                          | V    |
|                                     |      |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            | V    |
|                                     |      |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            | V    |
| 802.11n<br>HT20<br>CH 44<br>5220MHz |      | 5147.16              | 59.02                     | -14.98                  | 74                                | 50.6                            | 31.91                         | 9.98                   | 33.47                      | 261                  | 278                     | P                          | H    |
|                                     |      | 5145.6               | 43.08                     | -10.92                  | 54                                | 34.67                           | 31.91                         | 9.97                   | 33.47                      | 261                  | 278                     | A                          | H    |
|                                     | *    | 5220                 | 117.06                    | -                       | -                                 | 108.88                          | 31.58                         | 10.06                  | 33.46                      | 261                  | 278                     | P                          | H    |
|                                     | *    | 5220                 | 106.64                    | -                       | -                                 | 98.46                           | 31.58                         | 10.06                  | 33.46                      | 261                  | 278                     | A                          | H    |
|                                     |      | 5432.84              | 56                        | -18                     | 74                                | 47.57                           | 31.63                         | 10.24                  | 33.44                      | 261                  | 278                     | P                          | H    |
|                                     |      | 5354.44              | 41.97                     | -12.03                  | 54                                | 33.93                           | 31.32                         | 10.16                  | 33.44                      | 261                  | 278                     | A                          | H    |
|                                     |      | 5088.4               | 53.81                     | -20.19                  | 74                                | 45.42                           | 31.95                         | 9.91                   | 33.47                      | 370                  | 42                      | P                          | V    |
|                                     |      | 5148.98              | 40.69                     | -13.31                  | 54                                | 32.28                           | 31.9                          | 9.98                   | 33.47                      | 370                  | 42                      | A                          | V    |
|                                     | *    | 5220                 | 110.24                    | -                       | -                                 | 102.06                          | 31.58                         | 10.06                  | 33.46                      | 370                  | 42                      | P                          | V    |
|                                     | *    | 5220                 | 99.46                     | -                       | -                                 | 91.28                           | 31.58                         | 10.06                  | 33.46                      | 370                  | 42                      | A                          | V    |
|                                     |      | 5382.16              | 54.42                     | -19.58                  | 74                                | 46.24                           | 31.43                         | 10.19                  | 33.44                      | 370                  | 42                      | P                          | V    |
|                                     |      | 5458.6               | 40.51                     | -13.49                  | 54                                | 31.95                           | 31.73                         | 10.26                  | 33.43                      | 370                  | 42                      | A                          | V    |



|                                     |   |         |        |        |    |        |       |       |       |     |     |   |   |
|-------------------------------------|---|---------|--------|--------|----|--------|-------|-------|-------|-----|-----|---|---|
| 802.11n<br>HT20<br>CH 48<br>5240MHz |   | 5142.74 | 56.72  | -17.28 | 74 | 48.31  | 31.91 | 9.97  | 33.47 | 342 | 284 | P | H |
|                                     |   | 5145.6  | 41.66  | -12.34 | 54 | 33.25  | 31.91 | 9.97  | 33.47 | 342 | 284 | A | H |
|                                     | *   | 5240    | 116.32 | -      | -  | 108.25 | 31.46 | 10.07 | 33.46 | 342 | 284 | P | H |
|                                     | *   | 5240    | 105.71 | -      | -  | 97.64  | 31.46 | 10.07 | 33.46 | 342 | 284 | A | H |
|                                     |   | 5351.92 | 56.28  | -17.72 | 74 | 48.25  | 31.31 | 10.16 | 33.44 | 342 | 284 | P | H |
|                                     |   | 5453    | 42.09  | -11.91 | 54 | 33.55  | 31.71 | 10.26 | 33.43 | 342 | 284 | A | H |
|                                     |   | 5070.2  | 54.05  | -19.95 | 74 | 45.76  | 31.88 | 9.88  | 33.47 | 364 | 0   | P | V |
|                                     |   | 5146.12 | 40.7   | -13.3  | 54 | 32.28  | 31.91 | 9.98  | 33.47 | 364 | 0   | A | V |
|                                     | *   | 5240    | 109.93 | -      | -  | 101.86 | 31.46 | 10.07 | 33.46 | 364 | 0   | P | V |
|                                     | *   | 5240    | 99.21  | -      | -  | 91.14  | 31.46 | 10.07 | 33.46 | 364 | 0   | A | V |
|                                     |   | 5443.2  | 54.63  | -19.37 | 74 | 46.15  | 31.67 | 10.25 | 33.44 | 364 | 0   | P | V |
|                                     |   | 5423.88 | 40.52  | -13.48 | 54 | 32.13  | 31.6  | 10.23 | 33.44 | 364 | 0   | A | V |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |        |       |       |       |     |     |   |   |



## Band 1 5150~5250MHz

## WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI                                | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT20<br>CH 36<br>5180MHz |   | 10360                | 47.5                      | -20.7                   | 68.2                              | 52.31                           | 39.58                         | 15.6                   | 59.99                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15540                | 63.28                     | -10.72                  | 74                                | 63.51                           | 38.22                         | 19.59                  | 58.04                      | 206                  | 193                     | P                     | H             |
|                                     |   | 15540                | 46.87                     | -7.13                   | 54                                | 47.1                            | 38.22                         | 19.59                  | 58.04                      | 206                  | 193                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10360                | 47.29                     | -20.91                  | 68.2                              | 52.1                            | 39.58                         | 15.6                   | 59.99                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15540                | 61.93                     | -12.07                  | 74                                | 62.16                           | 38.22                         | 19.59                  | 58.04                      | 211                  | 157                     | P                     | V             |
|                                     |   | 15540                | 46.18                     | -7.82                   | 54                                | 46.41                           | 38.22                         | 19.59                  | 58.04                      | 211                  | 157                     | A                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 44<br>5220MHz |   | 10440                | 47.52                     | -20.68                  | 68.2                              | 52.32                           | 39.7                          | 15.67                  | 60.17                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15660                | 67.75                     | -6.25                   | 74                                | 68.19                           | 37.8                          | 19.64                  | 57.88                      | 206                  | 163                     | P                     | H             |
|                                     |   | 15660                | 50.17                     | -3.83                   | 54                                | 50.61                           | 37.8                          | 19.64                  | 57.88                      | 206                  | 163                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10440                | 47.89                     | -20.31                  | 68.2                              | 52.69                           | 39.7                          | 15.67                  | 60.17                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15660                | 66.29                     | -7.71                   | 74                                | 66.73                           | 37.8                          | 19.64                  | 57.88                      | 203                  | 190                     | P                     | V             |
|                                     |   | 15660                | 48.64                     | -5.36                   | 54                                | 49.08                           | 37.8                          | 19.64                  | 57.88                      | 203                  | 190                     | A                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 48<br>5240MHz |   | 10480                | 47.2                      | -21                     | 68.2                              | 52.06                           | 39.7                          | 15.7                   | 60.26                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15720                | 65.64                     | -8.36                   | 74                                | 66.02                           | 37.76                         | 19.65                  | 57.79                      | 214                  | 163                     | P                     | H             |
|                                     |   | 15720                | 48.37                     | -5.63                   | 54                                | 48.75                           | 37.76                         | 19.65                  | 57.79                      | 214                  | 163                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10480                | 47.25                     | -20.95                  | 68.2                              | 52.11                           | 39.7                          | 15.7                   | 60.26                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15720                | 63.18                     | -10.82                  | 74                                | 63.56                           | 37.76                         | 19.65                  | 57.79                      | 200                  | 208                     | P                     | V             |
|                                     |   | 15720                | 46                        | -8                      | 54                                | 46.38                           | 37.76                         | 19.65                  | 57.79                      | 200                  | 208                     | A                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 1 5150~5250MHz

## WIFI 802.11n HT40 (Band Edge @ 3m)

| WIFI                                | Note | Frequency<br>( MHz )  | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>(P/A) | Avg.<br>(H/V) |
|-------------------------------------|------|---|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|---------------|---------------|
| 802.11n<br>HT40<br>CH 38<br>5190MHz |      | 5150  | 65.28                     | -8.72                   | 74                                | 56.87                           | 31.9                          | 9.98                   | 33.47                      | 263                  | 279                     | P             | H             |
|                                     |      | 5149.76   | 46.72                     | -7.28                   | 54                                | 38.31                           | 31.9                          | 9.98                   | 33.47                      | 263                  | 279                     | A             | H             |
|                                     | *    | 5190  | 110.48                    | -                       | -                                 | 102.17                          | 31.74                         | 10.03                  | 33.46                      | 263                  | 279                     | P             | H             |
|                                     | *    | 5190  | 100.42                    | -                       | -                                 | 92.11                           | 31.74                         | 10.03                  | 33.46                      | 263                  | 279                     | A             | H             |
|                                     |      | 5379.08   | 54.48                     | -19.52                  | 74                                | 46.32                           | 31.42                         | 10.18                  | 33.44                      | 263                  | 279                     | P             | H             |
|                                     |      | 5376  | 42.7                      | -11.3                   | 54                                | 34.56                           | 31.4                          | 10.18                  | 33.44                      | 263                  | 279                     | A             | H             |
|                                     |      | 5149.76   | 58.51                     | -15.49                  | 74                                | 50.1                            | 31.9                          | 9.98                   | 33.47                      | 377                  | 45                      | P             | V             |
|                                     |      | 5150  | 42.75                     | -11.25                  | 54                                | 34.34                           | 31.9                          | 9.98                   | 33.47                      | 377                  | 45                      | A             | V             |
|                                     | *    | 5190  | 104.75                    | -                       | -                                 | 96.44                           | 31.74                         | 10.03                  | 33.46                      | 377                  | 45                      | P             | V             |
|                                     | *    | 5190  | 94.76                     | -                       | -                                 | 86.45                           | 31.74                         | 10.03                  | 33.46                      | 377                  | 45                      | A             | V             |
| 802.11n<br>HT40<br>CH 46<br>5230MHz |      | 5383  | 54.69                     | -19.31                  | 74                                | 46.51                           | 31.43                         | 10.19                  | 33.44                      | 377                  | 45                      | P             | V             |
|                                     |      | 5426.12   | 41.46                     | -12.54                  | 54                                | 33.07                           | 31.6                          | 10.23                  | 33.44                      | 377                  | 45                      | A             | V             |
|                                     |      | 5145.86   | 60.95                     | -13.05                  | 74                                | 52.53                           | 31.91                         | 9.98                   | 33.47                      | 295                  | 284                     | P             | H             |
|                                     |      | 5149.5  | 45.21                     | -8.79                   | 54                                | 36.8                            | 31.9                          | 9.98                   | 33.47                      | 295                  | 284                     | A             | H             |
|                                     | *    | 5230  | 114.3                     | -                       | -                                 | 106.18                          | 31.52                         | 10.06                  | 33.46                      | 295                  | 284                     | P             | H             |
|                                     | *    | 5230  | 104.35                    | -                       | -                                 | 96.23                           | 31.52                         | 10.06                  | 33.46                      | 295                  | 284                     | A             | H             |
|                                     |      | 5350.24   | 62.87                     | -11.13                  | 74                                | 54.85                           | 31.3                          | 10.16                  | 33.44                      | 295                  | 284                     | P             | H             |
|                                     |      | 5350  | 44.44                     | -9.56                   | 54                                | 36.42                           | 31.3                          | 10.16                  | 33.44                      | 295                  | 284                     | A             | H             |
|                                     |      | 5140.14   | 54.91                     | -19.09                  | 74                                | 46.49                           | 31.92                         | 9.97                   | 33.47                      | 366                  | 24                      | P             | V             |
|                                     |      | 5145.6  | 41.7                      | -12.3                   | 54                                | 33.29                           | 31.91                         | 9.97                   | 33.47                      | 366                  | 24                      | A             | V             |
| Remark                              | *    | 5230  | 107.84                    | -                       | -                                 | 99.72                           | 31.52                         | 10.06                  | 33.46                      | 366                  | 24                      | P             | V             |
|                                     | *    | 5230  | 96.98                     | -                       | -                                 | 88.86                           | 31.52                         | 10.06                  | 33.46                      | 366                  | 24                      | A             | V             |
|                                     |      | 5350.24   | 54.89                     | -19.11                  | 74                                | 46.87                           | 31.3                          | 10.16                  | 33.44                      | 366                  | 24                      | P             | V             |
|                                     |      | 5376.28   | 41.75                     | -12.25                  | 54                                | 33.6                            | 31.41                         | 10.18                  | 33.44                      | 366                  | 24                      | A             | V             |
|                                     |      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |               |               |



## Band 1 5150~5250MHz

## WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI                                | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT40<br>CH 38<br>5190MHz |   | 10380                | 47.78                     | -20.42                  | 68.2                              | 52.56                           | 39.64                         | 15.62                  | 60.04                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15570                | 45.87                     | -28.13                  | 74                                | 46.26                           | 38.01                         | 19.6                   | 58                         | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10380                | 47.17                     | -21.03                  | 68.2                              | 51.95                           | 39.64                         | 15.62                  | 60.04                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15570                | 45.91                     | -28.09                  | 74                                | 46.3                            | 38.01                         | 19.6                   | 58                         | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT40<br>CH 46<br>5230MHz |   | 10460                | 46.58                     | -21.62                  | 68.2                              | 51.41                           | 39.7                          | 15.68                  | 60.21                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15690                | 60.45                     | -13.55                  | 74                                | 60.84                           | 37.8                          | 19.64                  | 57.83                      | 213                  | 196                     | P                     | H             |
|                                     |   | 15690                | 47.33                     | -6.67                   | 54                                | 47.72                           | 37.8                          | 19.64                  | 57.83                      | 213                  | 196                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10460                | 47.15                     | -21.05                  | 68.2                              | 51.98                           | 39.7                          | 15.68                  | 60.21                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15690                | 59.01                     | -14.99                  | 74                                | 59.4                            | 37.8                          | 19.64                  | 57.83                      | 200                  | 189                     | P                     | V             |
|                                     |   | 15690                | 46.25                     | -7.75                   | 54                                | 46.64                           | 37.8                          | 19.64                  | 57.83                      | 200                  | 189                     | A                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 1 5150~5250MHz

## WIFI 802.11ac VHT80 (Band Edge @ 3m)

| WIFI                                  | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>(P/A) | Avg.<br>(H/V) |
|---------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|---------------|---------------|
| 802.11ac<br>VHT80<br>CH 42<br>5210MHz |   | 5148.72              | 61.33                     | -12.67                  | 74                                | 52.92                           | 31.9                          | 9.98                   | 33.47                      | 263                  | 282                     | P             | H             |
|                                       |   | 5147.42              | 45.47                     | -8.53                   | 54                                | 37.05                           | 31.91                         | 9.98                   | 33.47                      | 263                  | 282                     | A             | H             |
|                                       | *   | 5210                 | 106.96                    | -                       | -                                 | 98.73                           | 31.64                         | 10.05                  | 33.46                      | 263                  | 282                     | P             | H             |
|                                       | *   | 5210                 | 97.14                     | -                       | -                                 | 88.91                           | 31.64                         | 10.05                  | 33.46                      | 263                  | 282                     | A             | H             |
|                                       |   | 5442.92              | 55.44                     | -18.56                  | 74                                | 46.96                           | 31.67                         | 10.25                  | 33.44                      | 263                  | 282                     | P             | H             |
|                                       |   | 5453.28              | 42.9                      | -11.1                   | 54                                | 34.36                           | 31.71                         | 10.26                  | 33.43                      | 263                  | 282                     | A             | H             |
|                                       |   | 5148.2               | 53.38                     | -20.62                  | 74                                | 44.97                           | 31.9                          | 9.98                   | 33.47                      | 374                  | 41                      | P             | V             |
|                                       |   | 5148.98              | 41.84                     | -12.16                  | 54                                | 33.43                           | 31.9                          | 9.98                   | 33.47                      | 374                  | 41                      | A             | V             |
|                                       | *   | 5210                 | 100.55                    | -                       | -                                 | 92.32                           | 31.64                         | 10.05                  | 33.46                      | 374                  | 41                      | P             | V             |
|                                       | *   | 5210                 | 90.7                      | -                       | -                                 | 82.47                           | 31.64                         | 10.05                  | 33.46                      | 374                  | 41                      | A             | V             |
|                                       |   | 5436.48              | 53.93                     | -20.07                  | 74                                | 45.48                           | 31.65                         | 10.24                  | 33.44                      | 374                  | 41                      | P             | V             |
|                                       |   | 5459.72              | 41.5                      | -12.5                   | 54                                | 32.92                           | 31.74                         | 10.27                  | 33.43                      | 374                  | 41                      | A             | V             |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |               |               |



## Band 1 5150~5250MHz

## WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI                                  | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|---------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 42<br>5210MHz |   | 10420                | 46.67                     | -21.53                  | 68.2                              | 51.44                           | 39.7                          | 15.65                  | 60.12                      | 100                  | 0                       | P                     | H             |
|                                       |   | 15630                | 45.98                     | -28.02                  | 74                                | 46.48                           | 37.8                          | 19.62                  | 57.92                      | 100                  | 0                       | P                     | H             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                       |   | 10420                | 46.49                     | -21.71                  | 68.2                              | 51.26                           | 39.7                          | 15.65                  | 60.12                      | 100                  | 0                       | P                     | V             |
|                                       |   | 15630                | 45.07                     | -28.93                  | 74                                | 45.57                           | 37.8                          | 19.62                  | 57.92                      | 100                  | 0                       | P                     | V             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 2 - 5250~5350MHz

## WIFI 802.11a (Band Edge @ 3m)

| WIFI                        | Note | Frequency | Level  | Over   | Limit | Read   | Antenna | Path  | Preamp | Ant | Table | Peak    | Pol.    |
|-----------------------------|------|-----------|--------|--------|-------|--------|---------|-------|--------|-----|-------|---------|---------|
|                             |      |           |        |        |       |        |         |       |        |     |       | Avg.    |         |
|                             |      |           |        |        |       |        |         |       |        |     |       | ( P/A ) | ( H/V ) |
| 802.11a<br>CH 52<br>5260MHz |      | 5132.26   | 55.15  | -18.85 | 74    | 46.72  | 31.94   | 9.96  | 33.47  | 237 | 285   | P       | H       |
|                             |      | 5145.52   | 41.05  | -12.95 | 54    | 32.64  | 31.91   | 9.97  | 33.47  | 237 | 285   | A       | H       |
|                             | *    | 5260      | 117.11 | -      | -     | 109.09 | 31.38   | 10.09 | 33.45  | 237 | 285   | P       | H       |
|                             | *    | 5260      | 107.1  | -      | -     | 99.08  | 31.38   | 10.09 | 33.45  | 237 | 285   | A       | H       |
|                             |      | 5352      | 59.89  | -14.11 | 74    | 51.86  | 31.31   | 10.16 | 33.44  | 237 | 285   | P       | H       |
|                             |      | 5355.84   | 43.32  | -10.68 | 54    | 35.28  | 31.32   | 10.16 | 33.44  | 237 | 285   | A       | H       |
|                             |      | 5080.24   | 53.73  | -20.27 | 74    | 45.38  | 31.92   | 9.9   | 33.47  | 400 | 17    | P       | V       |
|                             |      | 5145.52   | 40.6   | -13.4  | 54    | 32.19  | 31.91   | 9.97  | 33.47  | 400 | 17    | A       | V       |
|                             | *    | 5260      | 110.57 | -      | -     | 102.55 | 31.38   | 10.09 | 33.45  | 400 | 17    | P       | V       |
|                             | *    | 5260      | 100.62 | -      | -     | 92.6   | 31.38   | 10.09 | 33.45  | 400 | 17    | A       | V       |
|                             |      | 5390.16   | 54.32  | -19.68 | 74    | 46.11  | 31.46   | 10.19 | 33.44  | 400 | 17    | P       | V       |
|                             |      | 5452.08   | 40.64  | -13.36 | 54    | 32.1   | 31.71   | 10.26 | 33.43  | 400 | 17    | A       | V       |
| 802.11a<br>CH 60<br>5300MHz |      | 5133.96   | 54.31  | -19.69 | 74    | 45.89  | 31.93   | 9.96  | 33.47  | 276 | 283   | P       | H       |
|                             |      | 5145.86   | 40.99  | -13.01 | 54    | 32.57  | 31.91   | 9.98  | 33.47  | 276 | 283   | A       | H       |
|                             | *    | 5300      | 117.1  | -      | -     | 109.13 | 31.3    | 10.12 | 33.45  | 276 | 283   | P       | H       |
|                             | *    | 5300      | 106.85 | -      | -     | 98.88  | 31.3    | 10.12 | 33.45  | 276 | 283   | A       | H       |
|                             |      | 5350.8    | 68.21  | -5.79  | 74    | 60.19  | 31.3    | 10.16 | 33.44  | 276 | 283   | P       | H       |
|                             |      | 5352.96   | 46.37  | -7.63  | 54    | 38.34  | 31.31   | 10.16 | 33.44  | 276 | 283   | A       | H       |
|                             |      | 5105.06   | 54.08  | -19.92 | 74    | 45.63  | 31.99   | 9.93  | 33.47  | 400 | 6     | P       | V       |
|                             |      | 5142.46   | 40.56  | -13.44 | 54    | 32.14  | 31.92   | 9.97  | 33.47  | 400 | 6     | A       | V       |
|                             | *    | 5300      | 111.26 | -      | -     | 103.29 | 31.3    | 10.12 | 33.45  | 400 | 6     | P       | V       |
|                             | *    | 5300      | 101.25 | -      | -     | 93.28  | 31.3    | 10.12 | 33.45  | 400 | 6     | A       | V       |
|                             |      | 5351.52   | 57.09  | -16.91 | 74    | 49.06  | 31.31   | 10.16 | 33.44  | 400 | 6     | P       | V       |
|                             |      | 5404.08   | 40.81  | -13.19 | 54    | 32.53  | 31.52   | 10.2  | 33.44  | 400 | 6     | A       | V       |



|                                      |   |         |        |        |    |        |       |       |       |     |     |   |   |
|--------------------------------------|---|---------|--------|--------|----|--------|-------|-------|-------|-----|-----|---|---|
| <b>802.11a<br/>CH 64<br/>5320MHz</b> | *   | 5320    | 116.78 | -      | -  | 108.79 | 31.3  | 10.14 | 33.45 | 269 | 286 | P | H |
|                                      | *   | 5320    | 106.98 | -      | -  | 98.99  | 31.3  | 10.14 | 33.45 | 269 | 286 | A | H |
|                                      |   | 5353.12 | 69.88  | -4.12  | 74 | 61.85  | 31.31 | 10.16 | 33.44 | 269 | 286 | P | H |
|                                      |   | 5350.08 | 50.49  | -3.51  | 54 | 42.47  | 31.3  | 10.16 | 33.44 | 269 | 286 | A | H |
|                                      |   |         |        |        |    |        |       |       |       |     |     |   | H |
|                                      |   |         |        |        |    |        |       |       |       |     |     |   | H |
|                                      | *   | 5320    | 112.08 | -      | -  | 104.09 | 31.3  | 10.14 | 33.45 | 399 | 24  | P | V |
|                                      | *   | 5320    | 101.6  | -      | -  | 93.61  | 31.3  | 10.14 | 33.45 | 399 | 24  | A | V |
|                                      |   | 5350.24 | 62.78  | -11.22 | 74 | 54.76  | 31.3  | 10.16 | 33.44 | 399 | 24  | P | V |
|                                      |   | 5350.08 | 44.15  | -9.85  | 54 | 36.13  | 31.3  | 10.16 | 33.44 | 399 | 24  | A | V |
|                                      |   |         |        |        |    |        |       |       |       |     |     |   | V |
|                                      |   |         |        |        |    |        |       |       |       |     |     |   | V |
| <b>Remark</b>                        | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |        |       |       |       |     |     |   |   |



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

| WIFI                                | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11a<br><br>CH 52<br><br>5260MHz |   | 10520                | 48.43                     | -19.77                  | 68.2                              | 53.31                           | 39.74                         | 15.73                  | 60.35                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15780                | 66.04                     | -7.96                   | 74                                | 66.43                           | 37.64                         | 19.68                  | 57.71                      | 208                  | 195                     | P                     | H             |
|                                     |   | 15780                | 50.76                     | -3.24                   | 54                                | 51.15                           | 37.64                         | 19.68                  | 57.71                      | 208                  | 195                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10520                | 47.9                      | -20.3                   | 68.2                              | 52.78                           | 39.74                         | 15.73                  | 60.35                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15780                | 63.68                     | -10.32                  | 74                                | 64.07                           | 37.64                         | 19.68                  | 57.71                      | 100                  | 183                     | P                     | V             |
|                                     |   | 15780                | 48.55                     | -5.45                   | 54                                | 48.94                           | 37.64                         | 19.68                  | 57.71                      | 100                  | 183                     | A                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11a<br><br>CH 60<br><br>5300MHz |   | 10600                | 48.45                     | -25.55                  | 74                                | 53.29                           | 39.9                          | 15.8                   | 60.54                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15900                | 57.11                     | -16.89                  | 74                                | 57.62                           | 37.3                          | 19.73                  | 57.54                      | 204                  | 193                     | P                     | H             |
|                                     |   | 15900                | 43.79                     | -10.21                  | 54                                | 44.3                            | 37.3                          | 19.73                  | 57.54                      | 204                  | 193                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10600                | 47.51                     | -26.49                  | 74                                | 52.35                           | 39.9                          | 15.8                   | 60.54                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15900                | 48.7                      | -25.3                   | 74                                | 49.21                           | 37.3                          | 19.73                  | 57.54                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11a<br><br>CH 64<br><br>5320MHz |   | 10640                | 48.05                     | -25.95                  | 74                                | 53.01                           | 39.86                         | 15.82                  | 60.64                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15960                | 58.86                     | -15.14                  | 74                                | 59.22                           | 37.36                         | 19.74                  | 57.46                      | 209                  | 162                     | P                     | H             |
|                                     |   | 15960                | 44.88                     | -9.12                   | 54                                | 45.24                           | 37.36                         | 19.74                  | 57.46                      | 209                  | 162                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10640                | 46.99                     | -27.01                  | 74                                | 51.95                           | 39.86                         | 15.82                  | 60.64                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15960                | 51.52                     | -22.48                  | 74                                | 51.88                           | 37.36                         | 19.74                  | 57.46                      | 100                  | 183                     | P                     | V             |
|                                     |   | 15960                | 38.18                     | -15.82                  | 54                                | 38.54                           | 37.36                         | 19.74                  | 57.46                      | 100                  | 183                     | A                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.<br>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<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A)(H/V) | Pol. |
|-------------------------------------|------|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|----------------------------|------|
| 802.11n<br>HT20<br>CH 52<br>5260MHz |      | 5134.3               | 53.86                     | -20.14                  | 74                                | 45.44                           | 31.93                         | 9.96                   | 33.47                      | 309                  | 285                     | P                          | H    |
|                                     |      | 5146.2               | 40.98                     | -13.02                  | 54                                | 32.56                           | 31.91                         | 9.98                   | 33.47                      | 309                  | 285                     | A                          | H    |
|                                     | *    | 5260                 | 117.55                    | -                       | -                                 | 109.53                          | 31.38                         | 10.09                  | 33.45                      | 309                  | 285                     | P                          | H    |
|                                     | *    | 5260                 | 106.74                    | -                       | -                                 | 98.72                           | 31.38                         | 10.09                  | 33.45                      | 309                  | 285                     | A                          | H    |
|                                     |      | 5355.12              | 58.48                     | -15.52                  | 74                                | 50.44                           | 31.32                         | 10.16                  | 33.44                      | 309                  | 285                     | P                          | H    |
|                                     |      | 5353.68              | 42.83                     | -11.17                  | 54                                | 34.8                            | 31.31                         | 10.16                  | 33.44                      | 309                  | 285                     | A                          | H    |
|                                     |      | 5126.48              | 53.96                     | -20.04                  | 74                                | 45.53                           | 31.95                         | 9.95                   | 33.47                      | 400                  | 0                       | P                          | V    |
|                                     |      | 5146.88              | 40.68                     | -13.32                  | 54                                | 32.26                           | 31.91                         | 9.98                   | 33.47                      | 400                  | 0                       | A                          | V    |
|                                     | *    | 5260                 | 110.57                    | -                       | -                                 | 102.55                          | 31.38                         | 10.09                  | 33.45                      | 400                  | 0                       | P                          | V    |
|                                     | *    | 5260                 | 100.27                    | -                       | -                                 | 92.25                           | 31.38                         | 10.09                  | 33.45                      | 400                  | 0                       | A                          | V    |
| 802.11n<br>HT20<br>CH 60<br>5300MHz |      | 5401.44              | 54.87                     | -19.13                  | 74                                | 46.6                            | 31.51                         | 10.2                   | 33.44                      | 400                  | 0                       | P                          | V    |
|                                     |      | 5453.04              | 40.83                     | -13.17                  | 54                                | 32.29                           | 31.71                         | 10.26                  | 33.43                      | 400                  | 0                       | A                          | V    |
|                                     |      | 5146.2               | 54.05                     | -19.95                  | 74                                | 45.63                           | 31.91                         | 9.98                   | 33.47                      | 321                  | 288                     | P                          | H    |
|                                     |      | 5145.52              | 40.95                     | -13.05                  | 54                                | 32.54                           | 31.91                         | 9.97                   | 33.47                      | 321                  | 288                     | A                          | H    |
|                                     | *    | 5300                 | 116.92                    | -                       | -                                 | 108.95                          | 31.3                          | 10.12                  | 33.45                      | 321                  | 288                     | P                          | H    |
|                                     | *    | 5300                 | 106.14                    | -                       | -                                 | 98.17                           | 31.3                          | 10.12                  | 33.45                      | 321                  | 288                     | A                          | H    |
|                                     |      | 5350.56              | 66.49                     | -7.51                   | 74                                | 58.47                           | 31.3                          | 10.16                  | 33.44                      | 321                  | 288                     | P                          | H    |
|                                     |      | 5359.68              | 45.93                     | -8.07                   | 54                                | 37.86                           | 31.34                         | 10.17                  | 33.44                      | 321                  | 288                     | A                          | H    |
|                                     |      | 5111.52              | 53.83                     | -20.17                  | 74                                | 45.39                           | 31.98                         | 9.93                   | 33.47                      | 399                  | 17                      | P                          | V    |
|                                     |      | 5141.78              | 40.64                     | -13.36                  | 54                                | 32.22                           | 31.92                         | 9.97                   | 33.47                      | 399                  | 17                      | A                          | V    |
|                                     | *    | 5300                 | 111.18                    | -                       | -                                 | 103.21                          | 31.3                          | 10.12                  | 33.45                      | 399                  | 17                      | P                          | V    |
|                                     | *    | 5300                 | 100.58                    | -                       | -                                 | 92.61                           | 31.3                          | 10.12                  | 33.45                      | 399                  | 17                      | A                          | V    |
|                                     |      | 5350.8               | 58.98                     | -15.02                  | 74                                | 50.96                           | 31.3                          | 10.16                  | 33.44                      | 399                  | 17                      | P                          | V    |
|                                     |      | 5351.76              | 41.03                     | -12.97                  | 54                                | 33                              | 31.31                         | 10.16                  | 33.44                      | 399                  | 17                      | A                          | V    |



|                                     |   |         |        |        |    |        |       |       |       |     |     |   |   |
|-------------------------------------|---|---------|--------|--------|----|--------|-------|-------|-------|-----|-----|---|---|
| 802.11n<br>HT20<br>CH 64<br>5320MHz | *   | 5320    | 116.66 | -      | -  | 108.67 | 31.3  | 10.14 | 33.45 | 294 | 285 | P | H |
|                                     | *   | 5320    | 105.95 | -      | -  | 97.96  | 31.3  | 10.14 | 33.45 | 294 | 285 | A | H |
|                                     |   | 5350.4  | 70.3   | -3.7   | 74 | 62.28  | 31.3  | 10.16 | 33.44 | 294 | 285 | P | H |
|                                     |   | 5350.72 | 50.56  | -3.44  | 54 | 42.54  | 31.3  | 10.16 | 33.44 | 294 | 285 | A | H |
|                                     |   |         |        |        |    |        |       |       |       |     |     |   | H |
|                                     |   |         |        |        |    |        |       |       |       |     |     |   | H |
|                                     | *   | 5320    | 111.02 | -      | -  | 103.03 | 31.3  | 10.14 | 33.45 | 399 | 38  | P | V |
|                                     | *   | 5320    | 100.3  | -      | -  | 92.31  | 31.3  | 10.14 | 33.45 | 399 | 38  | A | V |
|                                     |   | 5352.64 | 62.35  | -11.65 | 74 | 54.32  | 31.31 | 10.16 | 33.44 | 399 | 38  | P | V |
|                                     |   | 5350.56 | 43.88  | -10.12 | 54 | 35.86  | 31.3  | 10.16 | 33.44 | 399 | 38  | A | V |
|                                     |   |         |        |        |    |        |       |       |       |     |     |   | V |
|                                     |   |         |        |        |    |        |       |       |       |     |     |   | V |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |        |       |       |       |     |     |   |   |



## Band 2 5250~5350MHz

## WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI                                | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT20<br>CH 52<br>5260MHz |   | 10520                | 51.15                     | -17.05                  | 68.2                              | 56.03                           | 39.74                         | 15.73                  | 60.35                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15780                | 60.15                     | -13.85                  | 74                                | 60.54                           | 37.64                         | 19.68                  | 57.71                      | 213                  | 162                     | P                     | H             |
|                                     |   | 15780                | 44.09                     | -9.91                   | 54                                | 44.48                           | 37.64                         | 19.68                  | 57.71                      | 213                  | 162                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10520                | 48.35                     | -19.85                  | 68.2                              | 53.23                           | 39.74                         | 15.73                  | 60.35                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15780                | 55.04                     | -18.96                  | 74                                | 55.43                           | 37.64                         | 19.68                  | 57.71                      | 100                  | 159                     | P                     | V             |
|                                     |   | 15780                | 39.42                     | -14.58                  | 54                                | 39.81                           | 37.64                         | 19.68                  | 57.71                      | 100                  | 159                     | A                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 60<br>5300MHz |   | 10600                | 47.84                     | -26.16                  | 74                                | 52.68                           | 39.9                          | 15.8                   | 60.54                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15900                | 64.63                     | -9.37                   | 74                                | 65.14                           | 37.3                          | 19.73                  | 57.54                      | 218                  | 163                     | P                     | H             |
|                                     |   | 15900                | 47.87                     | -6.13                   | 54                                | 48.38                           | 37.3                          | 19.73                  | 57.54                      | 218                  | 163                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10600                | 47.05                     | -26.95                  | 74                                | 51.89                           | 39.9                          | 15.8                   | 60.54                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15900                | 63.83                     | -10.17                  | 74                                | 64.34                           | 37.3                          | 19.73                  | 57.54                      | 100                  | 182                     | P                     | V             |
|                                     |   | 15900                | 47.05                     | -6.95                   | 54                                | 47.56                           | 37.3                          | 19.73                  | 57.54                      | 100                  | 182                     | A                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 64<br>5320MHz |   | 10640                | 46.95                     | -27.05                  | 74                                | 51.91                           | 39.86                         | 15.82                  | 60.64                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15960                | 66.93                     | -7.07                   | 74                                | 67.29                           | 37.36                         | 19.74                  | 57.46                      | 211                  | 154                     | P                     | H             |
|                                     |   | 15960                | 49.29                     | -4.71                   | 54                                | 49.65                           | 37.36                         | 19.74                  | 57.46                      | 211                  | 154                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10640                | 47.42                     | -26.58                  | 74                                | 52.38                           | 39.86                         | 15.82                  | 60.64                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15960                | 66.31                     | -7.69                   | 74                                | 66.67                           | 37.36                         | 19.74                  | 57.46                      | 100                  | 176                     | P                     | V             |
|                                     |   | 15960                | 48.85                     | -5.15                   | 54                                | 49.21                           | 37.36                         | 19.74                  | 57.46                      | 100                  | 176                     | A                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.<br>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<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A)(H/V) | Pol. |
|-------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|----------------------------|------|
| 802.11n<br>HT40<br>CH 54<br>5270MHz |   | 5111.52              | 53.74                     | -20.26                  | 74                                | 45.3                            | 31.98                         | 9.93                   | 33.47                      | 283                  | 283                     | P                          | H    |
|                                     |   | 5143.14              | 42.08                     | -11.92                  | 54                                | 33.67                           | 31.91                         | 9.97                   | 33.47                      | 283                  | 283                     | A                          | H    |
|                                     | *   | 5310                 | 110.54                    | -                       | -                                 | 102.56                          | 31.3                          | 10.13                  | 33.45                      | 283                  | 283                     | P                          | H    |
|                                     | *   | 5310                 | 100.62                    | -                       | -                                 | 92.64                           | 31.3                          | 10.13                  | 33.45                      | 283                  | 283                     | A                          | H    |
|                                     |   | 5357.76              | 67.16                     | -6.84                   | 74                                | 59.1                            | 31.33                         | 10.17                  | 33.44                      | 283                  | 283                     | P                          | H    |
|                                     |   | 5350.8               | 51.36                     | -2.64                   | 54                                | 43.34                           | 31.3                          | 10.16                  | 33.44                      | 283                  | 283                     | A                          | H    |
|                                     |   | 5130.22              | 53.31                     | -20.69                  | 74                                | 44.88                           | 31.94                         | 9.96                   | 33.47                      | 400                  | 24                      | P                          | V    |
|                                     |   | 5142.46              | 41.48                     | -12.52                  | 54                                | 33.06                           | 31.92                         | 9.97                   | 33.47                      | 400                  | 24                      | A                          | V    |
|                                     | *   | 5310                 | 104.97                    | -                       | -                                 | 96.99                           | 31.3                          | 10.13                  | 33.45                      | 400                  | 24                      | P                          | V    |
|                                     | *   | 5310                 | 95.02                     | -                       | -                                 | 87.04                           | 31.3                          | 10.13                  | 33.45                      | 400                  | 24                      | A                          | V    |
| 802.11n<br>HT40<br>CH 62<br>5310MHz |   | 5357.28              | 56.9                      | -17.1                   | 74                                | 48.84                           | 31.33                         | 10.17                  | 33.44                      | 400                  | 24                      | P                          | V    |
|                                     |   | 5351.04              | 42.98                     | -11.02                  | 54                                | 34.96                           | 31.3                          | 10.16                  | 33.44                      | 400                  | 24                      | A                          | V    |
|                                     |   | 5111.52              | 53.74                     | -20.26                  | 74                                | 45.3                            | 31.98                         | 9.93                   | 33.47                      | 283                  | 283                     | P                          | H    |
|                                     |   | 5143.14              | 42.08                     | -11.92                  | 54                                | 33.67                           | 31.91                         | 9.97                   | 33.47                      | 283                  | 283                     | A                          | H    |
|                                     | *   | 5310                 | 110.54                    | -                       | -                                 | 102.56                          | 31.3                          | 10.13                  | 33.45                      | 283                  | 283                     | P                          | H    |
|                                     | *   | 5310                 | 100.62                    | -                       | -                                 | 92.64                           | 31.3                          | 10.13                  | 33.45                      | 283                  | 283                     | A                          | H    |
|                                     |   | 5357.76              | 67.16                     | -6.84                   | 74                                | 59.1                            | 31.33                         | 10.17                  | 33.44                      | 283                  | 283                     | P                          | H    |
|                                     |   | 5350.8               | 51.36                     | -2.64                   | 54                                | 43.34                           | 31.3                          | 10.16                  | 33.44                      | 283                  | 283                     | A                          | H    |
|                                     |   | 5130.22              | 53.31                     | -20.69                  | 74                                | 44.88                           | 31.94                         | 9.96                   | 33.47                      | 400                  | 24                      | P                          | V    |
|                                     |   | 5142.46              | 41.48                     | -12.52                  | 54                                | 33.06                           | 31.92                         | 9.97                   | 33.47                      | 400                  | 24                      | A                          | V    |
|                                     | *   | 5310                 | 104.97                    | -                       | -                                 | 96.99                           | 31.3                          | 10.13                  | 33.45                      | 400                  | 24                      | P                          | V    |
|                                     | *   | 5310                 | 95.02                     | -                       | -                                 | 87.04                           | 31.3                          | 10.13                  | 33.45                      | 400                  | 24                      | A                          | V    |
|                                     |   | 5357.28              | 56.9                      | -17.1                   | 74                                | 48.84                           | 31.33                         | 10.17                  | 33.44                      | 400                  | 24                      | P                          | V    |
|                                     |   | 5351.04              | 42.98                     | -11.02                  | 54                                | 34.96                           | 31.3                          | 10.16                  | 33.44                      | 400                  | 24                      | A                          | V    |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            |      |



## Band 2 5250~5350MHz

## WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI                                | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT40<br>CH 54<br>5270MHz |   | 10620                | 46.54                     | -27.46                  | 74                                | 51.45                           | 39.88                         | 15.27                  | 60.59                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15930                | 46.58                     | -27.42                  | 74                                | 47.01                           | 37.33                         | 19.01                  | 57.5                       | 100                  | 0                       | P                     | H             |
|                                     |   | 15810                | 48.58                     | -5.42                   | 54                                | 48.99                           | 37.57                         | 19.69                  | 57.67                      | 217                  | 163                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10620                | 47.6                      | -26.4                   | 74                                | 52.51                           | 39.88                         | 15.27                  | 60.59                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15930                | 46.33                     | -27.67                  | 74                                | 46.76                           | 37.33                         | 19.01                  | 57.5                       | 100                  | 0                       | P                     | V             |
|                                     |   | 15810                | 47.31                     | -6.69                   | 54                                | 47.72                           | 37.57                         | 19.69                  | 57.67                      | 100                  | 183                     | A                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT40<br>CH 62<br>5310MHz |   | 10620                | 46.54                     | -27.46                  | 74                                | 51.45                           | 39.88                         | 15.8                   | 60.59                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15930                | 46.58                     | -27.42                  | 74                                | 47.01                           | 37.33                         | 19.74                  | 57.5                       | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10620                | 47.6                      | -26.4                   | 74                                | 52.51                           | 39.88                         | 15.8                   | 60.59                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15930                | 46.33                     | -27.67                  | 74                                | 46.76                           | 37.33                         | 19.74                  | 57.5                       | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.<br>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<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>(P/A) | Avg.<br>(H/V) |
|---------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|---------------|---------------|
| 802.11ac<br>VHT80<br>CH 58<br>5290MHz |   | 5145.52              | 54.5                      | -19.5                   | 74                                | 46.09                           | 31.91                         | 9.97                   | 33.47                      | 100                  | 285                     | P             | H             |
|                                       |   | 5144.5               | 42.09                     | -11.91                  | 54                                | 33.68                           | 31.91                         | 9.97                   | 33.47                      | 100                  | 285                     | A             | H             |
|                                       | *   | 5290                 | 105.87                    | -                       | -                                 | 97.89                           | 31.32                         | 10.11                  | 33.45                      | 100                  | 285                     | P             | H             |
|                                       | *   | 5290                 | 95.61                     | -                       | -                                 | 87.63                           | 31.32                         | 10.11                  | 33.45                      | 100                  | 285                     | A             | H             |
|                                       |   | 5360.16              | 64.37                     | -9.63                   | 74                                | 56.3                            | 31.34                         | 10.17                  | 33.44                      | 100                  | 285                     | P             | H             |
|                                       |   | 5350.08              | 50.44                     | -3.56                   | 54                                | 42.42                           | 31.3                          | 10.16                  | 33.44                      | 100                  | 285                     | A             | H             |
|                                       |   | 5036.04              | 53.52                     | -20.48                  | 74                                | 45.47                           | 31.69                         | 9.84                   | 33.48                      | 400                  | 17                      | P             | V             |
|                                       |   | 5146.54              | 41.46                     | -12.54                  | 54                                | 33.04                           | 31.91                         | 9.98                   | 33.47                      | 400                  | 17                      | A             | V             |
|                                       | *   | 5290                 | 99.7                      | -                       | -                                 | 91.72                           | 31.32                         | 10.11                  | 33.45                      | 400                  | 17                      | P             | V             |
|                                       | *   | 5290                 | 89.64                     | -                       | -                                 | 81.66                           | 31.32                         | 10.11                  | 33.45                      | 400                  | 17                      | A             | V             |
|                                       |   | 5357.04              | 55.32                     | -18.68                  | 74                                | 47.26                           | 31.33                         | 10.17                  | 33.44                      | 400                  | 17                      | P             | V             |
|                                       |   | 5351.52              | 42.22                     | -11.78                  | 54                                | 34.19                           | 31.31                         | 10.16                  | 33.44                      | 400                  | 17                      | A             | V             |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |               |               |



## Band 2 5250~5350MHz

## WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI                                  | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|---------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 58<br>5290MHz |   | 10580                | 47.21                     | -20.99                  | 68.2                              | 52.06                           | 39.86                         | 15.78                  | 60.49                      | 100                  | 0                       | P                     | H             |
|                                       |   | 15870                | 45.86                     | -28.14                  | 74                                | 46.34                           | 37.39                         | 19.71                  | 57.58                      | 100                  | 0                       | P                     | H             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                       |   | 10580                | 47.15                     | -21.05                  | 68.2                              | 52                              | 39.86                         | 15.78                  | 60.49                      | 100                  | 0                       | P                     | V             |
|                                       |   | 15870                | 46.18                     | -27.82                  | 74                                | 46.66                           | 37.39                         | 19.71                  | 57.58                      | 100                  | 0                       | P                     | V             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                                | 1. No other spurious found.<br>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 | Path  | Preamp | Ant | Table | Peak    | Pol.    |
|------------------------------|------|-----------|--------|--------|-------|--------|---------|-------|--------|-----|-------|---------|---------|
|                              |      |           |        |        |       |        |         |       |        |     |       | Avg.    |         |
|                              |      |           |        |        |       |        |         |       |        |     |       | ( P/A ) | ( H/V ) |
| 802.11a<br>CH 100<br>5500MHz |      | 5458.48   | 64.71  | -9.29  | 74    | 56.15  | 31.73   | 10.26 | 33.43  | 299 | 284   | P       | H       |
|                              |      | 5466.16   | 66.35  | -1.85  | 68.2  | 57.75  | 31.76   | 10.27 | 33.43  | 299 | 284   | P       | H       |
|                              |      | 5442.48   | 46.65  | -7.35  | 54    | 38.17  | 31.67   | 10.25 | 33.44  | 299 | 284   | A       | H       |
|                              | *    | 5500      | 115.54 | -      | -     | 106.76 | 31.9    | 10.31 | 33.43  | 299 | 284   | P       | H       |
|                              | *    | 5500      | 105.3  | -      | -     | 96.52  | 31.9    | 10.31 | 33.43  | 299 | 284   | A       | H       |
|                              |      |           |        |        |       |        |         |       |        |     |       |         | H       |
|                              |      | 5455.6    | 55.62  | -18.38 | 74    | 47.07  | 31.72   | 10.26 | 33.43  | 400 | 336   | P       | V       |
|                              |      | 5466      | 58.67  | -9.53  | 68.2  | 50.07  | 31.76   | 10.27 | 33.43  | 400 | 336   | P       | V       |
|                              |      | 5457.84   | 41.32  | -12.68 | 54    | 32.76  | 31.73   | 10.26 | 33.43  | 400 | 336   | A       | V       |
|                              | *    | 5500      | 109.14 | -      | -     | 100.36 | 31.9    | 10.31 | 33.43  | 400 | 336   | P       | V       |
|                              | *    | 5500      | 98.87  | -      | -     | 90.09  | 31.9    | 10.31 | 33.43  | 400 | 336   | A       | V       |
|                              |      |           |        |        |       |        |         |       |        |     |       |         | V       |
| 802.11a<br>CH 116<br>5580MHz |      | 5407.6    | 55.1   | -18.9  | 74    | 46.8   | 31.53   | 10.21 | 33.44  | 304 | 290   | P       | H       |
|                              |      | 5462.56   | 54.65  | -13.55 | 68.2  | 46.06  | 31.75   | 10.27 | 33.43  | 304 | 290   | P       | H       |
|                              |      | 5452.96   | 41.73  | -12.27 | 54    | 33.19  | 31.71   | 10.26 | 33.43  | 304 | 290   | A       | H       |
|                              | *    | 5580      | 116.39 | -      | -     | 107.63 | 31.8    | 10.4  | 33.44  | 304 | 290   | P       | H       |
|                              | *    | 5580      | 106.45 | -      | -     | 97.69  | 31.8    | 10.4  | 33.44  | 304 | 290   | A       | H       |
|                              |      | 5742.635  | 55.88  | -12.32 | 68.2  | 46.72  | 32.09   | 10.53 | 33.46  | 304 | 290   | P       | H       |
|                              |      | 5454.4    | 54.21  | -19.79 | 74    | 45.66  | 31.72   | 10.26 | 33.43  | 399 | 25    | P       | V       |
|                              |      | 5462.8    | 53.67  | -14.53 | 68.2  | 45.08  | 31.75   | 10.27 | 33.43  | 399 | 25    | P       | V       |
|                              |      | 5452.72   | 40.91  | -13.09 | 54    | 32.37  | 31.71   | 10.26 | 33.43  | 399 | 25    | A       | V       |
|                              | *    | 5580      | 111.41 | -      | -     | 102.65 | 31.8    | 10.4  | 33.44  | 399 | 25    | P       | V       |
|                              | *    | 5580      | 100.99 | -      | -     | 92.23  | 31.8    | 10.4  | 33.44  | 399 | 25    | A       | V       |
|                              |      | 5741.69   | 55.62  | -12.58 | 68.2  | 46.47  | 32.08   | 10.53 | 33.46  | 399 | 25    | P       | V       |



|                                       |   |         |        |       |      |        |       |       |       |     |     |   |   |
|---------------------------------------|---|---------|--------|-------|------|--------|-------|-------|-------|-----|-----|---|---|
| <b>802.11a<br/>CH 140<br/>5700MHz</b> | *   | 5700    | 109.73 | -     | -    | 100.69 | 32    | 10.5  | 33.46 | 100 | 283 | P | H |
|                                       | *   | 5700    | 99.49  | -     | -    | 90.45  | 32    | 10.5  | 33.46 | 100 | 283 | A | H |
|                                       |   | 5730.28 | 64.8   | -3.4  | 68.2 | 55.68  | 32.06 | 10.52 | 33.46 | 100 | 283 | P | H |
|                                       |   |         |        |       |      |        |       |       |       |     |     |   | H |
|                                       |   |         |        |       |      |        |       |       |       |     |     |   | H |
|                                       |   |         |        |       |      |        |       |       |       |     |     |   | H |
|                                       | *   | 5700    | 104.35 | -     | -    | 95.31  | 32    | 10.5  | 33.46 | 400 | 24  | P | V |
|                                       | *   | 5700    | 94.04  | -     | -    | 85     | 32    | 10.5  | 33.46 | 400 | 24  | A | V |
|                                       |   | 5725.4  | 58.26  | -9.94 | 68.2 | 49.15  | 32.05 | 10.52 | 33.46 | 400 | 24  | P | V |
|                                       |   |         |        |       |      |        |       |       |       |     |     |   | V |
|                                       |   |         |        |       |      |        |       |       |       |     |     |   | V |
|                                       |   |         |        |       |      |        |       |       |       |     |     |   | V |
| <b>Remark</b>                         | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |       |      |        |       |       |       |     |     |   |   |



## Band 3 - 5470~5725MHz

## WIFI 802.11a (Harmonic @ 3m)

| WIFI                         | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11a<br>CH 100<br>5500MHz |   | 11000                | 47.69                     | -26.31                  | 74                                | 52.89                           | 40.2                          | 16.1                   | 61.5                       | 100                  | 0                       | P                     | H             |
|                              |   | 16650                | 47.17                     | -21.03                  | 68.2                              | 44.07                           | 39.8                          | 20.3                   | 57                         | 100                  | 0                       | P                     | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   | 11000                | 46.93                     | -27.07                  | 74                                | 52.13                           | 40.2                          | 16.1                   | 61.5                       | 100                  | 0                       | P                     | V             |
|                              |   | 16650                | 48.71                     | -19.49                  | 68.2                              | 45.61                           | 39.8                          | 20.3                   | 57                         | 100                  | 0                       | P                     | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11a<br>CH 116<br>5580MHz |   | 11160                | 46.64                     | -27.36                  | 74                                | 52.32                           | 39.62                         | 16.23                  | 61.53                      | 100                  | 0                       | P                     | H             |
|                              |   | 16740                | 50.53                     | -17.67                  | 68.2                              | 46.58                           | 40.4                          | 20.37                  | 56.82                      | 100                  | 0                       | P                     | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   | 11160                | 46.59                     | -27.41                  | 74                                | 52.27                           | 39.62                         | 16.23                  | 61.53                      | 100                  | 0                       | P                     | V             |
|                              |   | 16740                | 51.23                     | -16.97                  | 68.2                              | 47.28                           | 40.4                          | 20.37                  | 56.82                      | 100                  | 0                       | P                     | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11a<br>CH 140<br>5700MHz |   | 11400                | 47.4                      | -26.6                   | 74                                | 52.96                           | 39.6                          | 16.42                  | 61.58                      | 100                  | 0                       | P                     | H             |
|                              |   | 17100                | 55.4                      | -12.8                   | 68.2                              | 50.31                           | 40.5                          | 20.67                  | 56.08                      | 100                  | 0                       | P                     | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   | 11400                | 46.44                     | -27.56                  | 74                                | 52                              | 39.6                          | 16.42                  | 61.58                      | 100                  | 0                       | P                     | V             |
|                              |   | 17100                | 52.65                     | -15.55                  | 68.2                              | 47.56                           | 40.5                          | 20.67                  | 56.08                      | 100                  | 0                       | P                     | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                       | 1. No other spurious found.<br>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<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>(P/A) | Avg.<br>(H/V) |
|--------------------------------------|------|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|---------------|---------------|
| 802.11n<br>HT20<br>CH 100<br>5500MHz |      | 5459.44              | 65.1                      | -8.9                    | 74                                | 56.52                           | 31.74                         | 10.27                  | 33.43                      | 312                  | 287                     | P             | H             |
|                                      |      | 5469.84              | 66.2                      | -2                      | 68.2                              | 57.57                           | 31.78                         | 10.28                  | 33.43                      | 312                  | 287                     | P             | H             |
|                                      |      | 5442.32              | 44.57                     | -9.43                   | 54                                | 36.09                           | 31.67                         | 10.25                  | 33.44                      | 312                  | 287                     | A             | H             |
|                                      | *    | 5500                 | 114.13                    | -                       | -                                 | 105.35                          | 31.9                          | 10.31                  | 33.43                      | 312                  | 287                     | P             | H             |
|                                      | *    | 5500                 | 103.6                     | -                       | -                                 | 94.82                           | 31.9                          | 10.31                  | 33.43                      | 312                  | 287                     | A             | H             |
|                                      |      |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |               | H             |
|                                      |      | 5452.4               | 55.8                      | -18.2                   | 74                                | 47.26                           | 31.71                         | 10.26                  | 33.43                      | 400                  | 337                     | P             | V             |
|                                      |      | 5469.36              | 58.46                     | -9.74                   | 68.2                              | 49.83                           | 31.78                         | 10.28                  | 33.43                      | 400                  | 337                     | P             | V             |
|                                      |      | 5452.72              | 40.9                      | -13.1                   | 54                                | 32.36                           | 31.71                         | 10.26                  | 33.43                      | 400                  | 337                     | A             | V             |
|                                      | *    | 5500                 | 108                       | -                       | -                                 | 99.22                           | 31.9                          | 10.31                  | 33.43                      | 400                  | 337                     | P             | V             |
|                                      | *    | 5500                 | 97.09                     | -                       | -                                 | 88.31                           | 31.9                          | 10.31                  | 33.43                      | 400                  | 337                     | A             | V             |
|                                      |      |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |               | V             |
| 802.11n<br>HT20<br>CH 116<br>5580MHz |      | 5456.08              | 54.81                     | -19.19                  | 74                                | 46.26                           | 31.72                         | 10.26                  | 33.43                      | 301                  | 288                     | P             | H             |
|                                      |      | 5465.2               | 55.61                     | -12.59                  | 68.2                              | 47.01                           | 31.76                         | 10.27                  | 33.43                      | 301                  | 288                     | P             | H             |
|                                      |      | 5452.72              | 42.12                     | -11.88                  | 54                                | 33.58                           | 31.71                         | 10.26                  | 33.43                      | 301                  | 288                     | A             | H             |
|                                      | *    | 5580                 | 116.53                    | -                       | -                                 | 107.77                          | 31.8                          | 10.4                   | 33.44                      | 301                  | 288                     | P             | H             |
|                                      | *    | 5580                 | 105.79                    | -                       | -                                 | 97.03                           | 31.8                          | 10.4                   | 33.44                      | 301                  | 288                     | A             | H             |
|                                      |      | 5731.61              | 56.41                     | -11.79                  | 68.2                              | 47.28                           | 32.06                         | 10.53                  | 33.46                      | 301                  | 288                     | P             | H             |
|                                      |      | 5355.28              | 54.35                     | -19.65                  | 74                                | 46.31                           | 31.32                         | 10.16                  | 33.44                      | 400                  | 25                      | P             | V             |
|                                      |      | 5467.6               | 55.15                     | -13.05                  | 68.2                              | 46.54                           | 31.77                         | 10.27                  | 33.43                      | 400                  | 25                      | P             | V             |
|                                      |      | 5458                 | 40.86                     | -13.14                  | 54                                | 32.3                            | 31.73                         | 10.26                  | 33.43                      | 400                  | 25                      | A             | V             |
|                                      | *    | 5580                 | 110.8                     | -                       | -                                 | 102.04                          | 31.8                          | 10.4                   | 33.44                      | 400                  | 25                      | P             | V             |
|                                      | *    | 5580                 | 100.02                    | -                       | -                                 | 91.26                           | 31.8                          | 10.4                   | 33.44                      | 400                  | 25                      | A             | V             |
|                                      |      | 5737.28              | 56.19                     | -12.01                  | 68.2                              | 47.05                           | 32.07                         | 10.53                  | 33.46                      | 400                  | 25                      | P             | V             |



|                                      |   |         |        |       |      |        |       |       |       |     |     |   |   |
|--------------------------------------|---|---------|--------|-------|------|--------|-------|-------|-------|-----|-----|---|---|
| 802.11n<br>HT20<br>CH 140<br>5700MHz | *   | 5700    | 111.77 | -     | -    | 102.73 | 32    | 10.5  | 33.46 | 306 | 287 | P | H |
|                                      | *   | 5700    | 100.66 | -     | -    | 91.62  | 32    | 10.5  | 33.46 | 306 | 287 | A | H |
|                                      |   | 5726.2  | 66.82  | -1.38 | 68.2 | 57.71  | 32.05 | 10.52 | 33.46 | 306 | 287 | P | H |
|                                      |   |         |        |       |      |        |       |       |       |     |     |   | H |
|                                      |   |         |        |       |      |        |       |       |       |     |     |   | H |
|                                      |   |         |        |       |      |        |       |       |       |     |     |   | H |
|                                      | *   | 5700    | 106.9  | -     | -    | 97.86  | 32    | 10.5  | 33.46 | 400 | 22  | P | V |
|                                      | *   | 5700    | 95.91  | -     | -    | 86.87  | 32    | 10.5  | 33.46 | 400 | 22  | A | V |
|                                      |   | 5726.68 | 60.21  | -7.99 | 68.2 | 51.1   | 32.05 | 10.52 | 33.46 | 400 | 22  | P | V |
|                                      |   |         |        |       |      |        |       |       |       |     |     |   | V |
|                                      |   |         |        |       |      |        |       |       |       |     |     |   | V |
|                                      |   |         |        |       |      |        |       |       |       |     |     |   | V |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |       |      |        |       |       |       |     |     |   |   |



## Band 3 - 5470~5725MHz

## WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI                                 | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT20<br>CH 100<br>5500MHz |   | 11000                | 46.82                     | -27.18                  | 74                                | 52.02                           | 40.2                          | 16.1                   | 61.5                       | 100                  | 0                       | P                     | H             |
|                                      |   | 16500                | 46.81                     | -21.39                  | 68.2                              | 44.53                           | 39.4                          | 20.18                  | 57.3                       | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11000                | 47.38                     | -26.62                  | 74                                | 52.58                           | 40.2                          | 16.1                   | 61.5                       | 100                  | 0                       | P                     | V             |
|                                      |   | 16500                | 47.59                     | -20.61                  | 68.2                              | 45.31                           | 39.4                          | 20.18                  | 57.3                       | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 116<br>5580MHz |   | 11160                | 46.51                     | -27.49                  | 74                                | 52.19                           | 39.62                         | 16.23                  | 61.53                      | 100                  | 0                       | P                     | H             |
|                                      |   | 16740                | 48.56                     | -19.64                  | 68.2                              | 44.61                           | 40.4                          | 20.37                  | 56.82                      | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11160                | 45.94                     | -28.06                  | 74                                | 51.62                           | 39.62                         | 16.23                  | 61.53                      | 100                  | 0                       | P                     | V             |
|                                      |   | 16740                | 48.7                      | -19.5                   | 68.2                              | 44.75                           | 40.4                          | 20.37                  | 56.82                      | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 140<br>5700MHz |   | 11400                | 47.34                     | -26.66                  | 74                                | 52.9                            | 39.6                          | 16.42                  | 61.58                      | 100                  | 0                       | P                     | H             |
|                                      |   | 17100                | 48.92                     | -19.28                  | 68.2                              | 43.83                           | 40.5                          | 20.67                  | 56.08                      | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11400                | 46.88                     | -27.12                  | 74                                | 52.44                           | 39.6                          | 16.42                  | 61.58                      | 100                  | 0                       | P                     | V             |
|                                      |   | 17100                | 48.53                     | -19.67                  | 68.2                              | 43.44                           | 40.5                          | 20.67                  | 56.08                      | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                               | 1. No other spurious found.<br>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<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>(P/A) | Avg.<br>(H/V) |
|--------------------------------------|------|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|---------------|---------------|
| 802.11n<br>HT40<br>CH 102<br>5510MHz |      | 5459.92              | 66.18                     | -7.82                   | 74                                | 57.6                            | 31.74                         | 10.27                  | 33.43                      | 300                  | 288                     | P             | H             |
|                                      |      | 5468.08              | 67.19                     | -1.01                   | 68.2                              | 58.58                           | 31.77                         | 10.27                  | 33.43                      | 300                  | 288                     | P             | H             |
|                                      |      | 5452.48              | 46.95                     | -7.05                   | 54                                | 38.41                           | 31.71                         | 10.26                  | 33.43                      | 300                  | 288                     | P             | H             |
|                                      | *    | 5510                 | 110.74                    | -                       | -                                 | 101.97                          | 31.88                         | 10.32                  | 33.43                      | 300                  | 288                     | P             | H             |
|                                      | *    | 5510                 | 100.59                    | -                       | -                                 | 91.82                           | 31.88                         | 10.32                  | 33.43                      | 300                  | 288                     | A             | H             |
|                                      |      | 5737.595             | 55.75                     | -12.45                  | 68.2                              | 46.6                            | 32.08                         | 10.53                  | 33.46                      | 300                  | 288                     | P             | H             |
|                                      |      | 5458.96              | 58.13                     | -15.87                  | 74                                | 49.56                           | 31.74                         | 10.26                  | 33.43                      | 394                  | 320                     | P             | V             |
|                                      |      | 5468.8               | 59.95                     | -8.25                   | 68.2                              | 51.32                           | 31.78                         | 10.28                  | 33.43                      | 394                  | 320                     | P             | V             |
|                                      |      | 5452.24              | 42.47                     | -11.53                  | 54                                | 33.93                           | 31.71                         | 10.26                  | 33.43                      | 394                  | 320                     | A             | V             |
|                                      | *    | 5510                 | 104.74                    | -                       | -                                 | 95.97                           | 31.88                         | 10.32                  | 33.43                      | 394                  | 320                     | P             | V             |
|                                      | *    | 5510                 | 94.8                      | -                       | -                                 | 86.03                           | 31.88                         | 10.32                  | 33.43                      | 394                  | 320                     | A             | V             |
|                                      |      | 5761.85              | 55.2                      | -13                     | 68.2                              | 46                              | 32.12                         | 10.55                  | 33.47                      | 394                  | 320                     | P             | V             |
| 802.11n<br>HT40<br>CH 110<br>5550MHz |      | 5458                 | 61.61                     | -12.39                  | 74                                | 53.05                           | 31.73                         | 10.26                  | 33.43                      | 276                  | 286                     | P             | H             |
|                                      |      | 5466.4               | 63.06                     | -5.14                   | 68.2                              | 54.45                           | 31.77                         | 10.27                  | 33.43                      | 276                  | 286                     | P             | H             |
|                                      |      | 5459.68              | 47.28                     | -6.72                   | 54                                | 38.7                            | 31.74                         | 10.27                  | 33.43                      | 276                  | 286                     | A             | H             |
|                                      | *    | 5550                 | 114.97                    | -                       | -                                 | 106.25                          | 31.8                          | 10.36                  | 33.44                      | 276                  | 286                     | P             | H             |
|                                      | *    | 5550                 | 104.74                    | -                       | -                                 | 96.02                           | 31.8                          | 10.36                  | 33.44                      | 276                  | 286                     | A             | H             |
|                                      |      | 5759.96              | 55.62                     | -12.58                  | 68.2                              | 46.42                           | 32.12                         | 10.55                  | 33.47                      | 276                  | 286                     | P             | H             |
|                                      |      | 5458.24              | 55.88                     | -18.12                  | 74                                | 47.32                           | 31.73                         | 10.26                  | 33.43                      | 400                  | 19                      | P             | V             |
|                                      |      | 5466.16              | 55.92                     | -12.28                  | 68.2                              | 47.32                           | 31.76                         | 10.27                  | 33.43                      | 400                  | 19                      | P             | V             |
|                                      |      | 5458.24              | 43.01                     | -10.99                  | 54                                | 34.45                           | 31.73                         | 10.26                  | 33.43                      | 400                  | 19                      | A             | V             |
|                                      | *    | 5550                 | 109.84                    | -                       | -                                 | 101.12                          | 31.8                          | 10.36                  | 33.44                      | 400                  | 19                      | P             | V             |
|                                      | *    | 5550                 | 99.46                     | -                       | -                                 | 90.74                           | 31.8                          | 10.36                  | 33.44                      | 400                  | 19                      | A             | V             |
|                                      |      | 5727.515             | 54.89                     | -13.31                  | 68.2                              | 45.77                           | 32.06                         | 10.52                  | 33.46                      | 400                  | 19                      | P             | V             |



|                                      |   |          |        |        |      |        |       |       |       |     |     |   |   |
|--------------------------------------|---|----------|--------|--------|------|--------|-------|-------|-------|-----|-----|---|---|
| 802.11n<br>HT40<br>CH 134<br>5670MHz |   | 5428.75  | 54.15  | -19.85 | 74   | 45.75  | 31.61 | 10.23 | 33.44 | 296 | 286 | P | H |
|                                      |   | 5459.9   | 53.41  | -20.59 | 74   | 44.83  | 31.74 | 10.27 | 33.43 | 296 | 286 | P | H |
|                                      |   | 5452.55  | 41.98  | -12.02 | 54   | 33.44  | 31.71 | 10.26 | 33.43 | 296 | 286 | A | H |
|                                      | *   | 5670     | 113.91 | -      | -    | 105.06 | 31.82 | 10.48 | 33.45 | 296 | 286 | P | H |
|                                      | *   | 5670     | 103.95 | -      | -    | 95.1   | 31.82 | 10.48 | 33.45 | 296 | 286 | A | H |
|                                      |   | 5727.2   | 66.78  | -1.42  | 68.2 | 57.67  | 32.05 | 10.52 | 33.46 | 296 | 286 | P | H |
|                                      |   | 5428.75  | 53.37  | -20.63 | 74   | 44.97  | 31.61 | 10.23 | 33.44 | 398 | 165 | P | V |
|                                      |   | 5460.95  | 53.73  | -14.47 | 68.2 | 45.15  | 31.74 | 10.27 | 33.43 | 398 | 165 | P | V |
|                                      |   | 5458.85  | 41.32  | -12.68 | 54   | 32.75  | 31.74 | 10.26 | 33.43 | 398 | 165 | A | V |
|                                      | *   | 5670     | 108.47 | -      | -    | 99.62  | 31.82 | 10.48 | 33.45 | 398 | 165 | P | V |
|                                      | *   | 5670     | 98.32  | -      | -    | 89.47  | 31.82 | 10.48 | 33.45 | 398 | 165 | A | V |
|                                      |   | 5727.725 | 59.59  | -8.61  | 68.2 | 50.47  | 32.06 | 10.52 | 33.46 | 398 | 165 | P | V |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |          |        |        |      |        |       |       |       |     |     |   |   |



## Band 3 - 5470~5725MHz

## WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI                                 | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT40<br>CH 102<br>5510MHz |   | 11020                | 46.78                     | -27.22                  | 74                                | 52.04                           | 40.12                         | 16.12                  | 61.5                       | 100                  | 0                       | P                     | H             |
|                                      |   | 16530                | 47.06                     | -21.14                  | 68.2                              | 44.7                            | 39.4                          | 20.2                   | 57.24                      | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11020                | 48.03                     | -25.97                  | 74                                | 53.29                           | 40.12                         | 16.12                  | 61.5                       | 100                  | 0                       | P                     | V             |
|                                      |   | 16530                | 46.81                     | -21.39                  | 68.2                              | 44.45                           | 39.4                          | 20.2                   | 57.24                      | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT40<br>CH 110<br>5550MHz |   | 11100                | 47.14                     | -26.86                  | 74                                | 52.68                           | 39.8                          | 16.18                  | 61.52                      | 100                  | 0                       | P                     | H             |
|                                      |   | 16650                | 51.25                     | -16.95                  | 68.2                              | 48.15                           | 39.8                          | 20.3                   | 57                         | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11100                | 47.54                     | -26.46                  | 74                                | 53.08                           | 39.8                          | 16.18                  | 61.52                      | 100                  | 0                       | P                     | V             |
|                                      |   | 16650                | 48.76                     | -19.44                  | 68.2                              | 45.66                           | 39.8                          | 20.3                   | 57                         | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT40<br>CH 134<br>5670MHz |   | 11340                | 46.49                     | -27.51                  | 74                                | 52.14                           | 39.54                         | 16.38                  | 61.57                      | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 17010                | 53.17                     | -15.03                  | 68.2                              | 48.36                           | 40.5                          | 20.59                  | 56.28                      | 100                  | 0                       | P                     | V             |
|                                      |   | 11340                | 47.01                     | -26.99                  | 74                                | 52.66                           | 39.54                         | 16.38                  | 61.57                      | 100                  | 0                       | P                     | V             |
|                                      |   | 17010                | 51.5                      | -16.7                   | 68.2                              | 46.69                           | 40.5                          | 20.59                  | 56.28                      | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                               | 1. No other spurious found.<br>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<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>(P/A) | Avg.<br>(H/V) |
|--|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|---------------|---------------|
| 802.11ac<br>VHT80<br>CH 106<br>5530MHz |   | 5459.44              | 63.27                     | -10.73                  | 74                                | 54.69                           | 31.74                         | 10.27                  | 33.43                      | 300                  | 286                     | P             | H             |
|  |   | 5460.64              | 65.58                     | -2.62                   | 68.2                              | 57                              | 31.74                         | 10.27                  | 33.43                      | 300                  | 286                     | P             | H             |
|  |   | 5458                 | 47.81                     | -6.19                   | 54                                | 39.25                           | 31.73                         | 10.26                  | 33.43                      | 300                  | 286                     | A             | H             |
|  | *   | 5530                 | 107.62                    | -                       | -                                 | 98.87                           | 31.84                         | 10.34                  | 33.43                      | 300                  | 286                     | P             | H             |
|  | *   | 5530                 | 97.64                     | -                       | -                                 | 88.89                           | 31.84                         | 10.34                  | 33.43                      | 300                  | 286                     | A             | H             |
|  |   | 5760.59              | 55.15                     | -13.05                  | 68.2                              | 45.95                           | 32.12                         | 10.55                  | 33.47                      | 300                  | 286                     | P             | H             |
|  |   | 5459.92              | 58.06                     | -15.94                  | 74                                | 49.48                           | 31.74                         | 10.27                  | 33.43                      | 400                  | 3                       | P             | V             |
|  |   | 5460.64              | 57.29                     | -10.91                  | 68.2                              | 48.71                           | 31.74                         | 10.27                  | 33.43                      | 400                  | 3                       | P             | V             |
|  |   | 5457.76              | 42.84                     | -11.16                  | 54                                | 34.28                           | 31.73                         | 10.26                  | 33.43                      | 400                  | 3                       | A             | V             |
|  | *   | 5530                 | 101.35                    | -                       | -                                 | 92.6                            | 31.84                         | 10.34                  | 33.43                      | 400                  | 3                       | P             | V             |
|  | *   | 5530                 | 91.53                     | -                       | -                                 | 82.78                           | 31.84                         | 10.34                  | 33.43                      | 400                  | 3                       | A             | V             |
|  |   | 5742.005             | 55.92                     | -12.28                  | 68.2                              | 46.77                           | 32.08                         | 10.53                  | 33.46                      | 400                  | 3                       | P             | V             |
| 802.11ac<br>VHT80<br>CH 122<br>5610MHz |   | 5446.24              | 61.6                      | -12.4                   | 74                                | 53.11                           | 31.68                         | 10.25                  | 33.44                      | 301                  | 284                     | P             | H             |
|  |   | 5466.16              | 63.23                     | -4.97                   | 68.2                              | 54.63                           | 31.76                         | 10.27                  | 33.43                      | 301                  | 284                     | P             | H             |
|  |   | 5459.44              | 48.89                     | -5.11                   | 54                                | 40.31                           | 31.74                         | 10.27                  | 33.43                      | 301                  | 284                     | A             | H             |
|  | *   | 5610                 | 111.91                    | -                       | -                                 | 103.15                          | 31.78                         | 10.43                  | 33.45                      | 301                  | 284                     | P             | H             |
|  | *   | 5610                 | 101.95                    | -                       | -                                 | 93.19                           | 31.78                         | 10.43                  | 33.45                      | 301                  | 284                     | A             | H             |
|  |   | 5725                 | 65.71                     | -2.49                   | 68.2                              | 56.6                            | 32.05                         | 10.52                  | 33.46                      | 301                  | 284                     | P             | H             |
|  |   | 5457.76              | 56.33                     | -17.67                  | 74                                | 47.77                           | 31.73                         | 10.26                  | 33.43                      | 400                  | 320                     | P             | V             |
|  |   | 5468.08              | 59.27                     | -8.93                   | 68.2                              | 50.66                           | 31.77                         | 10.27                  | 33.43                      | 400                  | 320                     | P             | V             |
|  |   | 5458                 | 44.28                     | -9.72                   | 54                                | 35.72                           | 31.73                         | 10.26                  | 33.43                      | 400                  | 320                     | A             | V             |
|  | *   | 5610                 | 105.16                    | -                       | -                                 | 96.4                            | 31.78                         | 10.43                  | 33.45                      | 400                  | 320                     | P             | V             |
|  | *   | 5610                 | 95.44                     | -                       | -                                 | 86.68                           | 31.78                         | 10.43                  | 33.45                      | 400                  | 320                     | A             | V             |
|  |   | 5743.895             | 59.91                     | -8.29                   | 68.2                              | 50.74                           | 32.09                         | 10.54                  | 33.46                      | 400                  | 320                     | P             | V             |
| Remark                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |               |               |



## Band 3 5470~5725MHz

## WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI                                   | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 106<br>5530MHz |   | 11060                | 46.77                     | -27.23                  | 74                                | 52.17                           | 39.96                         | 16.15                  | 61.51                      | 100                  | 0                       | P                     | H             |
|  |   | 16590                | 47.29                     | -20.91                  | 68.2                              | 44.76                           | 39.4                          | 20.25                  | 57.12                      | 100                  | 0                       | P                     | H             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|  |   | 11060                | 45.99                     | -28.01                  | 74                                | 51.39                           | 39.96                         | 16.15                  | 61.51                      | 100                  | 0                       | P                     | V             |
|  |   | 16590                | 47.51                     | -20.69                  | 68.2                              | 44.98                           | 39.4                          | 20.25                  | 57.12                      | 100                  | 0                       | P                     | V             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11ac<br>VHT80<br>CH 122<br>5610MHz |   | 11220                | 46.6                      | -27.4                   | 74                                | 52.36                           | 39.5                          | 16.28                  | 61.54                      | 100                  | 0                       | P                     | H             |
|  |   | 16830                | 48.49                     | -19.71                  | 68.2                              | 44.16                           | 40.52                         | 20.45                  | 56.64                      | 100                  | 0                       | P                     | H             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|  |   | 11220                | 46.28                     | -27.72                  | 74                                | 52.04                           | 39.5                          | 16.28                  | 61.54                      | 100                  | 0                       | P                     | V             |
|  |   | 16830                | 48.77                     | -19.43                  | 68.2                              | 44.44                           | 40.52                         | 20.45                  | 56.64                      | 100                  | 0                       | P                     | V             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 3 - Straddle Channel

## WIFI 802.11a (Band Edge @ 3m)

| WIFI                         | Note  | Frequency | Level  | Over   | Limit | Read   | Antenna | Path  | Preamp | Ant | Table | Peak   | Pol.   |
|------------------------------|---|-----------|--------|--------|-------|--------|---------|-------|--------|-----|-------|--------|--------|
|                              |   |           |        |        |       |        |         |       |        |     |       | Limit  | Line   |
|                              |   |           |        |        |       |        |         |       |        |     |       | Factor | Factor |
| 802.11a<br>CH 144<br>5720MHz |   | 5452.57   | 54.03  | -19.97 | 74    | 45.49  | 31.71   | 10.26 | 33.43  | 100 | 125   | P      | H      |
|                              |   | 5464.27   | 53.48  | -14.72 | 68.2  | 44.88  | 31.76   | 10.27 | 33.43  | 100 | 125   | P      | H      |
|                              |   | 5447.89   | 40.58  | -13.42 | 54    | 32.08  | 31.69   | 10.25 | 33.44  | 100 | 125   | A      | H      |
|                              | *   | 5720      | 116.77 | -      | -     | 107.67 | 32.04   | 10.52 | 33.46  | 100 | 125   | P      | H      |
|                              | *   | 5720      | 106.42 | -      | -     | 97.32  | 32.04   | 10.52 | 33.46  | 100 | 125   | A      | H      |
|                              |   | 5854.25   | 57.04  | -11.16 | 68.2  | 47.59  | 32.31   | 10.62 | 33.48  | 100 | 125   | P      | H      |
|                              |   | 5371.84   | 53.19  | -20.81 | 74    | 45.06  | 31.39   | 10.18 | 33.44  | 400 | 191   | P      | V      |
|                              |   | 5463.49   | 53     | -15.2  | 68.2  | 44.41  | 31.75   | 10.27 | 33.43  | 400 | 191   | P      | V      |
|                              |   | 5430.73   | 40.44  | -13.56 | 54    | 32.03  | 31.62   | 10.23 | 33.44  | 400 | 191   | A      | V      |
|                              | *   | 5720      | 111.17 | -      | -     | 102.07 | 32.04   | 10.52 | 33.46  | 400 | 191   | P      | V      |
|                              | *   | 5720      | 100.82 | -      | -     | 91.72  | 32.04   | 10.52 | 33.46  | 400 | 191   | A      | V      |
|                              |   | 5943.75   | 56.1   | -12.1  | 68.2  | 46.33  | 32.57   | 10.69 | 33.49  | 400 | 191   | P      | V      |
| Remark                       | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |        |        |       |        |         |       |        |     |       |        |        |



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

| WIFI                         | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11a<br>CH 144<br>5720MHz |   | 11440                | 46.64                     | -27.36                  | 74                                | 52.1                            | 39.68                         | 16.45                  | 61.59                      | 100                  | 0                       | P                     | H             |
|                              |   | 17160                | 54.18                     | -14.02                  | 68.2                              | 48.86                           | 40.56                         | 20.71                  | 55.95                      | 100                  | 0                       | P                     | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   | 11440                | 46.73                     | -27.27                  | 74                                | 52.19                           | 39.68                         | 16.45                  | 61.59                      | 100                  | 0                       | P                     | V             |
|                              |   | 17160                | 53.16                     | -15.04                  | 68.2                              | 47.84                           | 40.56                         | 20.71                  | 55.95                      | 100                  | 0                       | P                     | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                       | 1. No other spurious found.<br>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<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A)(H/V) | Pol. |
|--------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|----------------------------|------|
| 802.11n<br>HT20<br>CH 144<br>5720MHz |   | 5449.84              | 53.7                      | -20.3                   | 74                                | 45.19                           | 31.7                          | 10.25                  | 33.44                      | 259                  | 283                     | P                          | H    |
|                                      |   | 5463.88              | 52.95                     | -15.25                  | 68.2                              | 44.35                           | 31.76                         | 10.27                  | 33.43                      | 259                  | 283                     | P                          | H    |
|                                      |   | 5452.57              | 41.16                     | -12.84                  | 54                                | 32.62                           | 31.71                         | 10.26                  | 33.43                      | 259                  | 283                     | A                          | H    |
|                                      | *   | 5720                 | 115.08                    | -                       | -                                 | 105.98                          | 32.04                         | 10.52                  | 33.46                      | 259                  | 283                     | P                          | H    |
|                                      | *   | 5720                 | 104.45                    | -                       | -                                 | 95.35                           | 32.04                         | 10.52                  | 33.46                      | 259                  | 283                     | A                          | H    |
|                                      |   | 5921                 | 58.08                     | -10.12                  | 68.2                              | 48.42                           | 32.48                         | 10.67                  | 33.49                      | 259                  | 283                     | P                          | H    |
|                                      |   | 5454.13              | 53.57                     | -20.43                  | 74                                | 45.02                           | 31.72                         | 10.26                  | 33.43                      | 400                  | 194                     | P                          | V    |
|                                      |   | 5467.39              | 52.93                     | -15.27                  | 68.2                              | 44.32                           | 31.77                         | 10.27                  | 33.43                      | 400                  | 194                     | P                          | V    |
|                                      |   | 5451.4               | 40.57                     | -13.43                  | 54                                | 32.03                           | 31.71                         | 10.26                  | 33.43                      | 400                  | 194                     | A                          | V    |
|                                      | *   | 5720                 | 109.47                    | -                       | -                                 | 100.37                          | 32.04                         | 10.52                  | 33.46                      | 400                  | 194                     | P                          | V    |
|                                      | *   | 5720                 | 98.94                     | -                       | -                                 | 89.84                           | 32.04                         | 10.52                  | 33.46                      | 400                  | 194                     | A                          | V    |
|                                      |   | 5931                 | 56.5                      | -11.7                   | 68.2                              | 46.79                           | 32.52                         | 10.68                  | 33.49                      | 400                  | 194                     | P                          | V    |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            |      |



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

| WIFI                                 | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT20<br>CH 144<br>5720MHz |   | 11440                | 46.57                     | -27.43                  | 74                                | 52.03                           | 39.68                         | 16.45                  | 61.59                      | 100                  | 0                       | P                     | H             |
|                                      |   | 17160                | 48.75                     | -19.45                  | 68.2                              | 43.43                           | 40.56                         | 20.71                  | 55.95                      | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11440                | 46.32                     | -27.68                  | 74                                | 51.78                           | 39.68                         | 16.45                  | 61.59                      | 100                  | 0                       | P                     | V             |
|                                      |   | 17160                | 48.82                     | -19.38                  | 68.2                              | 43.5                            | 40.56                         | 20.71                  | 55.95                      | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 3 - Straddle Channel

## WIFI 802.11n HT40 (Band Edge @ 3m)

| WIFI                                 | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A)(H/V) | Pol. |
|--------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|----------------------------|------|
| 802.11n<br>HT40<br>CH 142<br>5710MHz |   | 5371.06              | 54.01                     | -19.99                  | 74                                | 45.89                           | 31.38                         | 10.18                  | 33.44                      | 278                  | 282                     | P                          | H    |
|                                      |   | 5463.88              | 53.01                     | -15.19                  | 68.2                              | 44.41                           | 31.76                         | 10.27                  | 33.43                      | 278                  | 282                     | P                          | H    |
|                                      |   | 5452.96              | 42.02                     | -11.98                  | 54                                | 33.48                           | 31.71                         | 10.26                  | 33.43                      | 278                  | 282                     | A                          | H    |
|                                      | *   | 5710                 | 114.23                    | -                       | -                                 | 105.16                          | 32.02                         | 10.51                  | 33.46                      | 278                  | 282                     | P                          | H    |
|                                      | *   | 5710                 | 104.08                    | -                       | -                                 | 95.01                           | 32.02                         | 10.51                  | 33.46                      | 278                  | 282                     | A                          | H    |
|                                      |   | 5855.5               | 58.18                     | -10.02                  | 68.2                              | 48.73                           | 32.31                         | 10.62                  | 33.48                      | 278                  | 282                     | P                          | H    |
|                                      |   | 5367.16              | 53.06                     | -20.94                  | 74                                | 44.96                           | 31.37                         | 10.17                  | 33.44                      | 400                  | 193                     | P                          | V    |
|                                      |   | 5468.56              | 53.34                     | -14.86                  | 68.2                              | 44.72                           | 31.77                         | 10.28                  | 33.43                      | 400                  | 193                     | P                          | V    |
|                                      |   | 5444.38              | 41.61                     | -12.39                  | 54                                | 33.12                           | 31.68                         | 10.25                  | 33.44                      | 400                  | 193                     | A                          | V    |
|                                      | *   | 5710                 | 108.27                    | -                       | -                                 | 99.2                            | 32.02                         | 10.51                  | 33.46                      | 400                  | 193                     | P                          | V    |
|                                      | *   | 5710                 | 98.2                      | -                       | -                                 | 89.13                           | 32.02                         | 10.51                  | 33.46                      | 400                  | 193                     | A                          | V    |
|                                      |   | 5897.25              | 56.01                     | -12.19                  | 68.2                              | 46.46                           | 32.39                         | 10.65                  | 33.49                      | 400                  | 193                     | P                          | V    |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            |      |



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

| WIFI                                 | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT40<br>CH 142<br>5710MHz |   | 11420                | 45.81                     | -28.19                  | 74                                | 51.32                           | 39.64                         | 16.43                  | 61.58                      | 100                  | 0                       | P                     | H             |
|                                      |   | 17130                | 51.87                     | -16.33                  | 68.2                              | 46.65                           | 40.53                         | 20.7                   | 56.01                      | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11420                | 45.57                     | -28.43                  | 74                                | 51.08                           | 39.64                         | 16.43                  | 61.58                      | 100                  | 0                       | P                     | V             |
|                                      |   | 17130                | 51.19                     | -17.01                  | 68.2                              | 45.97                           | 40.53                         | 20.7                   | 56.01                      | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 3 - Straddle Channel

## WIFI 802.11ac VHT80 (Band Edge @ 3m)

| WIFI                                   | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>(P/A) | Avg.<br>(H/V) |
|--|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|---------------|---------------|
| 802.11ac<br>VHT80<br>CH 138<br>5690MHz |   | 5446.33              | 56.34                     | -17.66                  | 74                                | 47.84                           | 31.69                         | 10.25                  | 33.44                      | 251                  | 285                     | P             | H             |
|  |   | 5466.61              | 56.03                     | -12.17                  | 68.2                              | 47.42                           | 31.77                         | 10.27                  | 33.43                      | 251                  | 285                     | P             | H             |
|  |   | 5452.96              | 43.54                     | -10.46                  | 54                                | 35                              | 31.71                         | 10.26                  | 33.43                      | 251                  | 285                     | A             | H             |
|  | *   | 5690                 | 112.31                    | -                       | -                                 | 103.34                          | 31.94                         | 10.49                  | 33.46                      | 251                  | 285                     | P             | H             |
|  | *   | 5690                 | 101.81                    | -                       | -                                 | 92.84                           | 31.94                         | 10.49                  | 33.46                      | 251                  | 285                     | A             | H             |
|  |   | 5857.5               | 62.91                     | -5.29                   | 68.2                              | 53.46                           | 32.31                         | 10.62                  | 33.48                      | 251                  | 285                     | P             | H             |
|  |   | 5422.93              | 54.04                     | -19.96                  | 74                                | 45.66                           | 31.59                         | 10.23                  | 33.44                      | 400                  | 23                      | P             | V             |
|  |   | 5461.93              | 53.54                     | -14.66                  | 68.2                              | 44.95                           | 31.75                         | 10.27                  | 33.43                      | 400                  | 23                      | P             | V             |
|  |   | 5457.25              | 42.02                     | -11.98                  | 54                                | 33.46                           | 31.73                         | 10.26                  | 33.43                      | 400                  | 23                      | A             | V             |
|  | *   | 5690                 | 106.56                    | -                       | -                                 | 97.59                           | 31.94                         | 10.49                  | 33.46                      | 400                  | 23                      | P             | V             |
|  | *   | 5690                 | 96.31                     | -                       | -                                 | 87.34                           | 31.94                         | 10.49                  | 33.46                      | 400                  | 23                      | A             | V             |
|  |   | 5850                 | 58.17                     | -10.03                  | 68.2                              | 48.73                           | 32.3                          | 10.62                  | 33.48                      | 400                  | 23                      | P             | V             |
| Remark                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |               |               |



## Band 3 - Straddle Channel

## WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI                                   | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 138<br>5690MHz |   | 11380                | 47.15                     | -26.85                  | 74                                | 52.74                           | 39.58                         | 16.41                  | 61.58                      | 100                  | 0                       | P                     | H             |
|  |   | 17070                | 53.9                      | -14.3                   | 68.2                              | 48.91                           | 40.5                          | 20.64                  | 56.15                      | 100                  | 0                       | P                     | H             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|  |   | 11380                | 46.66                     | -27.34                  | 74                                | 52.25                           | 39.58                         | 16.41                  | 61.58                      | 100                  | 0                       | P                     | V             |
|  |   | 17070                | 51.88                     | -16.32                  | 68.2                              | 46.89                           | 40.5                          | 20.64                  | 56.15                      | 100                  | 0                       | P                     | V             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Emission below 1GHz

## WIFI 802.11n HT40 (LF @ 3m)

| WIFI                  | Note   | Frequency  | Level | Over   | Limit | Read  | Antenna | Path | Preamp | Ant | Table | Peak  | Pol.  |
|-----------------------|--------|--|-------|--------|-------|-------|---------|------|--------|-----|-------|-------|-------|
|                       |        |  |       |        |       |       |         |      |        |     |       | Avg.  |       |
|                       |        |  |       |        |       |       |         |      |        |     |       | (P/A) | (H/V) |
| 802.11n<br>HT40<br>LF |        | 112.45   | 26.45 | -17.05 | 43.5  | 38.48 | 16.92   | 1.47 | 30.42  | -   | -     | P     | H     |
|                       |        | 194.9  | 31.19 | -12.31 | 43.5  | 44.71 | 14.83   | 1.98 | 30.33  | -   | -     | P     | H     |
|                       |        | 280.26   | 28.01 | -17.99 | 46    | 37.13 | 18.8    | 2.26 | 30.18  | -   | -     | P     | H     |
|                       |        | 836.07   | 37.31 | -8.69  | 46    | 34.27 | 28.22   | 4.06 | 29.24  | -   | -     | P     | H     |
|                       |        | 895.24   | 36.25 | -9.75  | 46    | 32.23 | 28.92   | 4.25 | 29.15  | -   | -     | P     | H     |
|                       |        | 904.94   | 37.98 | -8.02  | 46    | 33.8  | 29.03   | 4.28 | 29.13  | 100 | 0     | P     | H     |
|                       |        |  |       |        |       |       |         |      |        |     |       |       | H     |
|                       |        |  |       |        |       |       |         |      |        |     |       |       | H     |
|                       |        |  |       |        |       |       |         |      |        |     |       |       | H     |
|                       |        |  |       |        |       |       |         |      |        |     |       |       | H     |
|                       |        |  |       |        |       |       |         |      |        |     |       |       | H     |
|                       |        |  |       |        |       |       |         |      |        |     |       |       | H     |
|                       |        |  |       |        |       |       |         |      |        |     |       |       | V     |
|                       |        | 61.04  | 31.96 | -8.04  | 40    | 49.5  | 11.77   | 1.15 | 30.46  | -   | -     | P     | V     |
|                       |        | 150.28   | 30.03 | -13.47 | 43.5  | 41.75 | 16.91   | 1.74 | 30.37  | -   | -     | P     | V     |
|                       |        | 194.9  | 31.58 | -11.92 | 43.5  | 45.1  | 14.83   | 1.98 | 30.33  | -   | -     | P     | V     |
|                       |        | 885.54   | 37.41 | -8.59  | 46    | 33.38 | 28.97   | 4.22 | 29.16  | -   | -     | P     | V     |
|                       |        | 910.76   | 38.75 | -7.25  | 46    | 34.35 | 29.21   | 4.3  | 29.11  | 100 | 0     | P     | V     |
|                       |        | 946.65   | 35.47 | -10.53 | 46    | 29.61 | 30.44   | 4.43 | 29.01  | -   | -     | P     | V     |
|                       |        |  |       |        |       |       |         |      |        |     |       |       | V     |
|                       |        |  |       |        |       |       |         |      |        |     |       |       | V     |
|                       |        |  |       |        |       |       |         |      |        |     |       |       | V     |
|                       |        |  |       |        |       |       |         |      |        |     |       |       | V     |
|                       |        |  |       |        |       |       |         |      |        |     |       |       | V     |
|                       | Remark | 1. No other spurious found.<br>2. All results are PASS against limit line. |       |        |       |       |         |      |        |     |       |       |       |



&lt;For Antenna 4&gt;

&lt;Chain 2&gt;

## Band 3 - 5470~5725MHz

## WIFI 802.11n HT40 (Band Edge @ 3m)

| WIFI                                 | Note  | Frequency | Level            | Over Limit | Limit Line       | Read Level     | Antenna Factor | Path Loss | Preamp Factor | Ant Pos | Table Pos | Peak  | Avg.  |  |
|--------------------------------------|---|-----------|------------------|------------|------------------|----------------|----------------|-----------|---------------|---------|-----------|-------|-------|--|
|                                      |   | ( MHz )   | ( dB $\mu$ V/m ) | ( dB )     | ( dB $\mu$ V/m ) | ( dB $\mu$ V ) | ( dB/m )       | ( dB )    | ( dB )        | ( cm )  | ( deg )   | (P/A) | (H/V) |  |
| 802.11n<br>HT40<br>CH 102<br>5510MHz |   | 5458.48   | 60.59            | -13.41     | 74               | 52.03          | 31.73          | 10.26     | 33.43         | 101     | 66        | P     | H     |  |
|                                      |   | 5467.12   | 61.38            | -6.82      | 68.2             | 52.77          | 31.77          | 10.27     | 33.43         | 101     | 66        | P     | H     |  |
|                                      |   | 5458.48   | 44.88            | -9.12      | 54               | 36.32          | 31.73          | 10.26     | 33.43         | 101     | 66        | A     | H     |  |
|                                      | *   | 5510      | 107.82           | -          | -                | 99.05          | 31.88          | 10.32     | 33.43         | 101     | 66        | P     | H     |  |
|                                      | *   | 5510      | 97.91            | -          | -                | 89.14          | 31.88          | 10.32     | 33.43         | 101     | 66        | A     | H     |  |
|                                      |   | 5735.075  | 54.96            | -13.24     | 68.2             | 45.82          | 32.07          | 10.53     | 33.46         | 101     | 66        | P     | H     |  |
|                                      |   | 5426.8    | 53.41            | -20.59     | 74               | 45.01          | 31.61          | 10.23     | 33.44         | 314     | 298       | P     | V     |  |
|                                      |   | 5464      | 54.1             | -14.1      | 68.2             | 45.5           | 31.76          | 10.27     | 33.43         | 314     | 298       | P     | V     |  |
|                                      |   | 5458.24   | 41.66            | -12.34     | 54               | 33.1           | 31.73          | 10.26     | 33.43         | 314     | 298       | A     | V     |  |
|                                      | *   | 5510      | 103.24           | -          | -                | 94.47          | 31.88          | 10.32     | 33.43         | 314     | 298       | P     | V     |  |
|                                      | *   | 5510      | 93.07            | -          | -                | 84.3           | 31.88          | 10.32     | 33.43         | 314     | 298       | A     | V     |  |
|                                      |   | 5744.21   | 55.91            | -12.29     | 68.2             | 46.74          | 32.09          | 10.54     | 33.46         | 314     | 298       | P     | V     |  |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |                  |            |                  |                |                |           |               |         |           |       |       |  |



## Band 3 - 5470~5725MHz

## WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI                                 | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT40<br>CH 102<br>5510MHz |   | 11020                | 46.59                     | -27.41                  | 74                                | 51.85                           | 40.12                         | 16.12                  | 61.5                       | 100                  | 0                       | P                     | H             |
|                                      |   | 16530                | 46.81                     | -21.39                  | 68.2                              | 44.45                           | 39.4                          | 20.2                   | 57.24                      | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11015                | 46.27                     | -27.73                  | 74                                | 51.52                           | 40.14                         | 16.11                  | 61.5                       |                      |                         | P                     | V             |
|                                      |   | 16530                | 46.1                      | -22.1                   | 68.2                              | 43.74                           | 39.4                          | 20.2                   | 57.24                      | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 3 - 5470~5725MHz

## Emission below 1GHz

## WIFI 802.11n HT40 (LF @ 3m)

| WIFI    | Note | Frequency<br>( MHz )   | Level<br>( dBµV/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dBµV/m ) | Read<br>Level<br>( dBµV ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A)(H/V) | Pol. |
|---------|------|--|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|----------------------------|------|
|         |      | 30   | 24.87               | -15.13                  | 40                          | 29.71                     | 24.57                         | 0.77                   | 30.18                      | -                    | -                       | P                          | H    |
|         |      | 162.89   | 26.94               | -16.56                  | 43.5                        | 39.31                     | 16.15                         | 1.84                   | 30.36                      | -                    | -                       | P                          | H    |
|         |      | 194.9  | 33                  | -10.5                   | 43.5                        | 46.52                     | 14.83                         | 1.98                   | 30.33                      | 100                  | 0                       | P                          | H    |
|         |      | 239.52   | 32.13               | -13.87                  | 46                          | 43.11                     | 17.19                         | 2.08                   | 30.25                      | -                    | -                       | P                          | H    |
|         |      | 715.79   | 32.97               | -13.03                  | 46                          | 31.95                     | 26.76                         | 3.74                   | 29.48                      | -                    | -                       | P                          | H    |
|         |      | 947.62   | 35.48               | -10.52                  | 46                          | 29.57                     | 30.48                         | 4.43                   | 29                         | -                    | -                       | P                          | H    |
|         |      |  |                     |                         |                             |                           |                               |                        |                            |                      |                         |                            | H    |
|         |      |  |                     |                         |                             |                           |                               |                        |                            |                      |                         |                            | H    |
|         |      |  |                     |                         |                             |                           |                               |                        |                            |                      |                         |                            | H    |
|         |      |  |                     |                         |                             |                           |                               |                        |                            |                      |                         |                            | H    |
|         |      |  |                     |                         |                             |                           |                               |                        |                            |                      |                         |                            | H    |
|         |      |  |                     |                         |                             |                           |                               |                        |                            |                      |                         |                            | H    |
|         |      |  |                     |                         |                             |                           |                               |                        |                            |                      |                         |                            | H    |
|         |      |  |                     |                         |                             |                           |                               |                        |                            |                      |                         |                            | V    |
|         |      |  |                     |                         |                             |                           |                               |                        |                            |                      |                         |                            | V    |
|         |      |  |                     |                         |                             |                           |                               |                        |                            |                      |                         |                            | V    |
|         |      |  |                     |                         |                             |                           |                               |                        |                            |                      |                         |                            | V    |
|         |      |  |                     |                         |                             |                           |                               |                        |                            |                      |                         |                            | V    |
|         |      |  |                     |                         |                             |                           |                               |                        |                            |                      |                         |                            | V    |
|         |      |  |                     |                         |                             |                           |                               |                        |                            |                      |                         |                            | V    |
|         |      |  |                     |                         |                             |                           |                               |                        |                            |                      |                         |                            | V    |
|         |      |  |                     |                         |                             |                           |                               |                        |                            |                      |                         |                            | V    |
|         |      |  |                     |                         |                             |                           |                               |                        |                            |                      |                         |                            | V    |
|         |      |  |                     |                         |                             |                           |                               |                        |                            |                      |                         |                            | V    |
| 802.11n |      |  |                     |                         |                             |                           |                               |                        |                            |                      |                         |                            |      |
| HT40    |      |  |                     |                         |                             |                           |                               |                        |                            |                      |                         |                            |      |
| LF      |      |  |                     |                         |                             |                           |                               |                        |                            |                      |                         |                            |      |
|         |      | 30.97  | 31.01               | -8.99                   | 40                          | 36.38                     | 24.05                         | 0.78                   | 30.2                       | 100                  | 0                       | P                          | V    |
|         |      | 62.98  | 30.63               | -9.37                   | 40                          | 48.17                     | 11.76                         | 1.16                   | 30.46                      | -                    | -                       | P                          | V    |
|         |      | 139.61   | 28.17               | -15.33                  | 43.5                        | 39.69                     | 17.24                         | 1.63                   | 30.39                      | -                    | -                       | P                          | V    |
|         |      | 194.9  | 32.5                | -11                     | 43.5                        | 46.02                     | 14.83                         | 1.98                   | 30.33                      | -                    | -                       | P                          | V    |
|         |      | 839.95   | 32.99               | -13.01                  | 46                          | 29.69                     | 28.46                         | 4.07                   | 29.23                      | -                    | -                       | P                          | V    |
|         |      | 949.56   | 36.81               | -9.19                   | 46                          | 30.81                     | 30.56                         | 4.44                   | 29                         | -                    | -                       | P                          | V    |
|         |      |  |                     |                         |                             |                           |                               |                        |                            |                      |                         |                            | V    |
|         |      |  |                     |                         |                             |                           |                               |                        |                            |                      |                         |                            | V    |
|         |      |  |                     |                         |                             |                           |                               |                        |                            |                      |                         |                            | V    |
|         |      |  |                     |                         |                             |                           |                               |                        |                            |                      |                         |                            | V    |
|         |      |  |                     |                         |                             |                           |                               |                        |                            |                      |                         |                            | V    |
|         |      |  |                     |                         |                             |                           |                               |                        |                            |                      |                         |                            | V    |
| Remark  |      | 1. No other spurious found.<br>2. All results are PASS against limit line. |                     |                         |                             |                           |                               |                        |                            |                      |                         |                            |      |



## MIMO &lt;Chain 1+2&gt;

Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

| WIFI                        | Note | Frequency | Level            | Over Limit | Limit Line       | Read Level   | Antenna Factor | Path Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg.  | Pol. |
|-----------------------------|------|-----------|------------------|------------|------------------|--------------|----------------|-----------|---------------|---------|-----------|------------|------|
|                             |      | ( MHz )   | ( dB $\mu$ V/m ) | ( dB )     | ( dB $\mu$ V/m ) | (dB $\mu$ V) | ( dB/m )       | ( dB )    | ( dB )        | ( cm )  | ( deg )   | (P/A)(H/V) |      |
| 802.11a<br>CH 36<br>5180MHz |      | 5147.16   | 64.44            | -9.56      | 74               | 56.02        | 31.91          | 9.98      | 33.47         | 298     | 282       | P          | H    |
|                             |      | 5145.6    | 43.78            | -10.22     | 54               | 35.37        | 31.91          | 9.97      | 33.47         | 298     | 282       | A          | H    |
|                             | *    | 5180      | 113.57           | -          | -                | 105.23       | 31.78          | 10.02     | 33.46         | 298     | 282       | P          | H    |
|                             | *    | 5180      | 103.42           | -          | -                | 95.08        | 31.78          | 10.02     | 33.46         | 298     | 282       | A          | H    |
|                             |      |           |                  |            |                  |              |                |           |               |         |           |            | H    |
|                             |      |           |                  |            |                  |              |                |           |               |         |           |            | H    |
|                             |      | 5146.9    | 55.36            | -18.64     | 74               | 46.94        | 31.91          | 9.98      | 33.47         | 101     | 153       | P          | V    |
|                             |      | 5148.98   | 41.39            | -12.61     | 54               | 32.98        | 31.9           | 9.98      | 33.47         | 101     | 153       | A          | V    |
|                             | *    | 5180      | 104.34           | -          | -                | 96           | 31.78          | 10.02     | 33.46         | 101     | 153       | P          | V    |
|                             | *    | 5180      | 94.21            | -          | -                | 85.87        | 31.78          | 10.02     | 33.46         | 101     | 153       | A          | V    |
|                             |      |           |                  |            |                  |              |                |           |               |         |           |            | V    |
|                             |      |           |                  |            |                  |              |                |           |               |         |           |            | V    |
| 802.11a<br>CH 44<br>5220MHz |      | 5147.68   | 57.89            | -16.11     | 74               | 49.48        | 31.9           | 9.98      | 33.47         | 293     | 282       | P          | H    |
|                             |      | 5145.6    | 42.5             | -11.5      | 54               | 34.09        | 31.91          | 9.97      | 33.47         | 293     | 282       | A          | H    |
|                             | *    | 5220      | 114.33           | -          | -                | 106.15       | 31.58          | 10.06     | 33.46         | 293     | 282       | P          | H    |
|                             | *    | 5220      | 104.17           | -          | -                | 95.99        | 31.58          | 10.06     | 33.46         | 293     | 282       | A          | H    |
|                             |      | 5453.28   | 55.68            | -18.32     | 74               | 47.14        | 31.71          | 10.26     | 33.43         | 293     | 282       | P          | H    |
|                             |      | 5452.72   | 43.41            | -10.59     | 54               | 34.87        | 31.71          | 10.26     | 33.43         | 293     | 282       | A          | H    |
|                             |      | 5066.3    | 54.56            | -19.44     | 74               | 46.28        | 31.87          | 9.88      | 33.47         | 112     | 9         | P          | V    |
|                             |      | 5140.4    | 41.16            | -12.84     | 54               | 32.74        | 31.92          | 9.97      | 33.47         | 112     | 9         | A          | V    |
|                             | *    | 5220      | 106.67           | -          | -                | 98.49        | 31.58          | 10.06     | 33.46         | 112     | 9         | P          | V    |
|                             | *    | 5220      | 96.51            | -          | -                | 88.33        | 31.58          | 10.06     | 33.46         | 112     | 9         | A          | V    |
|                             |      | 5440.96   | 54.62            | -19.38     | 74               | 46.15        | 31.66          | 10.25     | 33.44         | 112     | 9         | P          | V    |
|                             |      | 5453      | 41.04            | -12.96     | 54               | 32.5         | 31.71          | 10.26     | 33.43         | 112     | 9         | A          | V    |



| 802.11a<br>CH 48<br>5240MHz |   | 5142.48 | 54.91  | -19.09 | 74 | 46.49  | 31.92 | 9.97  | 33.47 | 308 | 282 | P | H |
|-----------------------------|---|---------|--------|--------|----|--------|-------|-------|-------|-----|-----|---|---|
|                             |   | 5145.6  | 42.11  | -11.89 | 54 | 33.7   | 31.91 | 9.97  | 33.47 | 308 | 282 | A | H |
|                             | *   | 5240    | 113.98 | -      | -  | 105.91 | 31.46 | 10.07 | 33.46 | 308 | 282 | P | H |
|                             | *   | 5240    | 103.8  | -      | -  | 95.73  | 31.46 | 10.07 | 33.46 | 308 | 282 | A | H |
|                             |   | 5383.84 | 55.84  | -18.16 | 74 | 47.65  | 31.44 | 10.19 | 33.44 | 308 | 282 | P | H |
|                             |   | 5453    | 43.59  | -10.41 | 54 | 35.05  | 31.71 | 10.26 | 33.43 | 308 | 282 | A | H |
|                             |   | 5144.82 | 54.37  | -19.63 | 74 | 45.96  | 31.91 | 9.97  | 33.47 | 100 | 8   | P | V |
|                             |   | 5145.34 | 41.05  | -12.95 | 54 | 32.64  | 31.91 | 9.97  | 33.47 | 100 | 8   | A | V |
|                             | *   | 5240    | 105.57 | -      | -  | 97.5   | 31.46 | 10.07 | 33.46 | 100 | 8   | P | V |
|                             | *   | 5240    | 95.57  | -      | -  | 87.5   | 31.46 | 10.07 | 33.46 | 100 | 8   | A | V |
|                             |   | 5361.72 | 54.33  | -19.67 | 74 | 46.25  | 31.35 | 10.17 | 33.44 | 100 | 8   | P | V |
|                             |   | 5452.72 | 41.17  | -12.83 | 54 | 32.63  | 31.71 | 10.26 | 33.43 | 100 | 8   | A | V |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |        |       |       |       |     |     |   |   |



**Band 1 5150~5250MHz**  
**WIFI 802.11a (Harmonic @ 3m)**

| WIFI                        | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-----------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11a<br>CH 36<br>5180MHz |   | 10360                | 46.75                     | -21.45                  | 68.2                              | 51.56                           | 39.58                         | 15.6                   | 59.99                      | 100                  | 0                       | P                     | H             |
|                             |   | 15540                | 47.35                     | -26.65                  | 74                                | 47.58                           | 38.22                         | 19.59                  | 58.04                      | 100                  | 0                       | P                     | H             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                             |   | 10360                | 46.65                     | -21.55                  | 68.2                              | 51.46                           | 39.58                         | 15.6                   | 59.99                      | 100                  | 0                       | P                     | V             |
|                             |   | 15540                | 46.47                     | -27.53                  | 74                                | 46.7                            | 38.22                         | 19.59                  | 58.04                      | 100                  | 0                       | P                     | V             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11a<br>CH 44<br>5220MHz |   | 10440                | 46.5                      | -21.7                   | 68.2                              | 51.3                            | 39.7                          | 15.67                  | 60.17                      | 100                  | 0                       | P                     | H             |
|                             |   | 15660                | 60.3                      | -13.7                   | 74                                | 60.74                           | 37.8                          | 19.64                  | 57.88                      | 209                  | 162                     | P                     | H             |
|                             |   | 15660                | 44.66                     | -9.34                   | 54                                | 45.1                            | 37.8                          | 19.64                  | 57.88                      | 209                  | 162                     | A                     | H             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                             |   | 10440                | 46.88                     | -21.32                  | 68.2                              | 51.68                           | 39.7                          | 15.67                  | 60.17                      | 100                  | 0                       | P                     | V             |
|                             |   | 15660                | 57.68                     | -16.32                  | 74                                | 58.12                           | 37.8                          | 19.64                  | 57.88                      | 355                  | 157                     | P                     | V             |
|                             |   | 15660                | 42.56                     | -11.44                  | 54                                | 43                              | 37.8                          | 19.64                  | 57.88                      | 355                  | 157                     | A                     | V             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11a<br>CH 48<br>5240MHz |   | 10480                | 46.26                     | -21.94                  | 68.2                              | 51.12                           | 39.7                          | 15.7                   | 60.26                      | 100                  | 0                       | P                     | H             |
|                             |   | 15720                | 59.53                     | -14.47                  | 74                                | 59.91                           | 37.76                         | 19.65                  | 57.79                      | 200                  | 162                     | P                     | H             |
|                             |   | 15720                | 44.13                     | -9.87                   | 54                                | 44.51                           | 37.76                         | 19.65                  | 57.79                      | 200                  | 162                     | A                     | H             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                             |   | 10480                | 47.2                      | -21                     | 68.2                              | 52.06                           | 39.7                          | 15.7                   | 60.26                      | 100                  | 0                       | P                     | V             |
|                             |   | 15720                | 57.57                     | -16.43                  | 74                                | 57.95                           | 37.76                         | 19.65                  | 57.79                      | 400                  | 212                     | P                     | V             |
|                             |   | 15720                | 42.32                     | -11.68                  | 54                                | 42.7                            | 37.76                         | 19.65                  | 57.79                      | 400                  | 212                     | A                     | V             |
|                             |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 1 5150~5250MHz

## WIFI 802.11n HT20 (Band Edge @ 3m)

| WIFI                                | Note | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A)(H/V) | Pol. |
|-------------------------------------|------|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|----------------------------|------|
| 802.11n<br>HT20<br>CH 36<br>5180MHz |      | 5147.42              | 64.24                     | -9.76                   | 74                                | 55.82                           | 31.91                         | 9.98                   | 33.47                      | 100                  | 78                      | P                          | H    |
|                                     |      | 5150                 | 45.36                     | -8.64                   | 54                                | 36.95                           | 31.9                          | 9.98                   | 33.47                      | 100                  | 78                      | A                          | H    |
|                                     | *    | 5180                 | 113.57                    | -                       | -                                 | 105.23                          | 31.78                         | 10.02                  | 33.46                      | 100                  | 78                      | P                          | H    |
|                                     | *    | 5180                 | 102.73                    | -                       | -                                 | 94.39                           | 31.78                         | 10.02                  | 33.46                      | 100                  | 78                      | A                          | H    |
|                                     |      |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            | H    |
|                                     |      |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            | H    |
|                                     |      | 5149.5               | 56.82                     | -17.18                  | 74                                | 48.41                           | 31.9                          | 9.98                   | 33.47                      | 100                  | 349                     | P                          | V    |
|                                     |      | 5148.72              | 41.73                     | -12.27                  | 54                                | 33.32                           | 31.9                          | 9.98                   | 33.47                      | 100                  | 349                     | A                          | V    |
|                                     | *    | 5180                 | 105.91                    | -                       | -                                 | 97.57                           | 31.78                         | 10.02                  | 33.46                      | 100                  | 349                     | P                          | V    |
|                                     | *    | 5180                 | 95.42                     | -                       | -                                 | 87.08                           | 31.78                         | 10.02                  | 33.46                      | 100                  | 349                     | A                          | V    |
|                                     |      |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            | V    |
|                                     |      |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            | V    |
| 802.11n<br>HT20<br>CH 44<br>5220MHz |      | 5144.3               | 56.16                     | -17.84                  | 74                                | 47.75                           | 31.91                         | 9.97                   | 33.47                      | 100                  | 78                      | P                          | H    |
|                                     |      | 5150                 | 42.67                     | -11.33                  | 54                                | 34.26                           | 31.9                          | 9.98                   | 33.47                      | 100                  | 78                      | A                          | H    |
|                                     | *    | 5220                 | 114.72                    | -                       | -                                 | 106.54                          | 31.58                         | 10.06                  | 33.46                      | 100                  | 78                      | P                          | H    |
|                                     | *    | 5220                 | 103.7                     | -                       | -                                 | 95.52                           | 31.58                         | 10.06                  | 33.46                      | 100                  | 78                      | A                          | H    |
|                                     |      | 5454.96              | 55.02                     | -18.98                  | 74                                | 46.47                           | 31.72                         | 10.26                  | 33.43                      | 100                  | 78                      | P                          | H    |
|                                     |      | 5362.56              | 41.92                     | -12.08                  | 54                                | 33.84                           | 31.35                         | 10.17                  | 33.44                      | 100                  | 78                      | A                          | H    |
|                                     |      | 5136.24              | 54.44                     | -19.56                  | 74                                | 46.02                           | 31.93                         | 9.96                   | 33.47                      | 113                  | 351                     | P                          | V    |
|                                     |      | 5138.32              | 41.04                     | -12.96                  | 54                                | 32.62                           | 31.92                         | 9.97                   | 33.47                      | 113                  | 351                     | A                          | V    |
|                                     | *    | 5220                 | 107.69                    | -                       | -                                 | 99.51                           | 31.58                         | 10.06                  | 33.46                      | 113                  | 351                     | P                          | V    |
|                                     | *    | 5220                 | 97.06                     | -                       | -                                 | 88.88                           | 31.58                         | 10.06                  | 33.46                      | 113                  | 351                     | A                          | V    |
|                                     |      | 5434.8               | 54.51                     | -19.49                  | 74                                | 46.07                           | 31.64                         | 10.24                  | 33.44                      | 113                  | 351                     | P                          | V    |
|                                     |      | 5443.48              | 40.97                     | -13.03                  | 54                                | 32.49                           | 31.67                         | 10.25                  | 33.44                      | 113                  | 351                     | A                          | V    |



|                                     |   |         |        |        |    |        |       |       |       |     |     |   |   |
|-------------------------------------|---|---------|--------|--------|----|--------|-------|-------|-------|-----|-----|---|---|
| 802.11n<br>HT20<br>CH 48<br>5240MHz |   | 5148.46 | 54.3   | -19.7  | 74 | 45.89  | 31.9  | 9.98  | 33.47 | 100 | 75  | P | H |
|                                     |   | 5150    | 41.48  | -12.52 | 54 | 33.07  | 31.9  | 9.98  | 33.47 | 100 | 75  | A | H |
|                                     | *   | 5240    | 113.29 | -      | -  | 105.22 | 31.46 | 10.07 | 33.46 | 100 | 75  | P | H |
|                                     | *   | 5240    | 102.81 | -      | -  | 94.74  | 31.46 | 10.07 | 33.46 | 100 | 75  | A | H |
|                                     |   | 5353.6  | 56.83  | -17.17 | 74 | 48.8   | 31.31 | 10.16 | 33.44 | 100 | 75  | P | H |
|                                     |   | 5351.92 | 42.06  | -11.94 | 54 | 34.03  | 31.31 | 10.16 | 33.44 | 100 | 75  | A | H |
|                                     |   | 5134.94 | 54.52  | -19.48 | 74 | 46.1   | 31.93 | 9.96  | 33.47 | 112 | 351 | P | V |
|                                     |   | 5145.86 | 40.97  | -13.03 | 54 | 32.55  | 31.91 | 9.98  | 33.47 | 112 | 351 | A | V |
|                                     | *   | 5240    | 106.84 | -      | -  | 98.77  | 31.46 | 10.07 | 33.46 | 112 | 351 | P | V |
|                                     | *   | 5240    | 96.78  | -      | -  | 88.71  | 31.46 | 10.07 | 33.46 | 112 | 351 | A | V |
|                                     |   | 5455.8  | 54.22  | -19.78 | 74 | 45.67  | 31.72 | 10.26 | 33.43 | 112 | 351 | P | V |
|                                     |   | 5449.64 | 40.9   | -13.1  | 54 | 32.39  | 31.7  | 10.25 | 33.44 | 112 | 351 | A | V |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |        |       |       |       |     |     |   |   |



## Band 1 5150~5250MHz

## WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI                                | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT20<br>CH 36<br>5180MHz |   | 10360                | 46.73                     | -21.47                  | 68.2                              | 51.54                           | 39.58                         | 15.6                   | 59.99                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15540                | 56.46                     | -17.54                  | 74                                | 56.69                           | 38.22                         | 19.59                  | 58.04                      | 198                  | 157                     | P                     | H             |
|                                     |   | 15540                | 41.47                     | -12.53                  | 54                                | 41.7                            | 38.22                         | 19.59                  | 58.04                      | 198                  | 157                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10360                | 46.7                      | -21.5                   | 68.2                              | 51.51                           | 39.58                         | 15.6                   | 59.99                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15540                | 47.26                     | -26.74                  | 74                                | 47.49                           | 38.22                         | 19.59                  | 58.04                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 44<br>5220MHz |   | 10440                | 46.79                     | -21.41                  | 68.2                              | 51.59                           | 39.7                          | 15.67                  | 60.17                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15660                | 64.31                     | -9.69                   | 74                                | 64.75                           | 37.8                          | 19.64                  | 57.88                      | 207                  | 162                     | P                     | H             |
|                                     |   | 15660                | 46.24                     | -7.76                   | 54                                | 46.68                           | 37.8                          | 19.64                  | 57.88                      | 207                  | 162                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10440                | 46.42                     | -21.78                  | 68.2                              | 51.22                           | 39.7                          | 15.67                  | 60.17                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15660                | 62.31                     | -11.69                  | 74                                | 62.75                           | 37.8                          | 19.64                  | 57.88                      | 358                  | 156                     | P                     | V             |
|                                     |   | 15660                | 43.76                     | -10.24                  | 54                                | 44.2                            | 37.8                          | 19.64                  | 57.88                      | 358                  | 156                     | A                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 48<br>5240MHz |   | 10480                | 47.74                     | -20.46                  | 68.2                              | 52.6                            | 39.7                          | 15.7                   | 60.26                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15720                | 61.83                     | -12.17                  | 74                                | 62.21                           | 37.76                         | 19.65                  | 57.79                      | 205                  | 165                     | P                     | H             |
|                                     |   | 15720                | 44.42                     | -9.58                   | 54                                | 44.8                            | 37.76                         | 19.65                  | 57.79                      | 205                  | 165                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10480                | 46.91                     | -21.29                  | 68.2                              | 51.77                           | 39.7                          | 15.7                   | 60.26                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15720                | 59.53                     | -14.47                  | 74                                | 59.91                           | 37.76                         | 19.65                  | 57.79                      | 344                  | 159                     | P                     | V             |
|                                     |   | 15720                | 42.02                     | -11.98                  | 54                                | 42.4                            | 37.76                         | 19.65                  | 57.79                      | 344                  | 159                     | A                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 1 5150~5250MHz

## WIFI 802.11n HT40 (Band Edge @ 3m)

| WIFI                                | Note | Frequency<br>( MHz )  | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A)(H/V) | Pol. |
|-------------------------------------|------|---|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|----------------------------|------|
| 802.11n<br>HT40<br>CH 38<br>5190MHz |      | 5145.08   | 61.3                      | -12.7                   | 74                                | 52.89                           | 31.91                         | 9.97                   | 33.47                      | 103                  | 76                      | P                          | H    |
|                                     |      | 5150  | 46.58                     | -7.42                   | 54                                | 38.17                           | 31.9                          | 9.98                   | 33.47                      | 103                  | 76                      | A                          | H    |
|                                     | *    | 5190  | 111.21                    | -                       | -                                 | 102.9                           | 31.74                         | 10.03                  | 33.46                      | 103                  | 76                      | P                          | H    |
|                                     | *    | 5190  | 101.01                    | -                       | -                                 | 92.7                            | 31.74                         | 10.03                  | 33.46                      | 103                  | 76                      | A                          | H    |
|                                     |      | 5384.96   | 54.9                      | -19.1                   | 74                                | 46.71                           | 31.44                         | 10.19                  | 33.44                      | 103                  | 76                      | P                          | H    |
|                                     |      | 5355.84   | 42.6                      | -11.4                   | 54                                | 34.56                           | 31.32                         | 10.16                  | 33.44                      | 103                  | 76                      | A                          | H    |
|                                     |      | 5072.54   | 53.89                     | -20.11                  | 74                                | 45.58                           | 31.89                         | 9.89                   | 33.47                      | 400                  | 310                     | P                          | V    |
|                                     |      | 5144.3  | 41.88                     | -12.12                  | 54                                | 33.47                           | 31.91                         | 9.97                   | 33.47                      | 400                  | 310                     | A                          | V    |
|                                     | *    | 5190  | 104.42                    | -                       | -                                 | 96.11                           | 31.74                         | 10.03                  | 33.46                      | 400                  | 310                     | P                          | V    |
|                                     | *    | 5190  | 94.41                     | -                       | -                                 | 86.1                            | 31.74                         | 10.03                  | 33.46                      | 400                  | 310                     | A                          | V    |
| 802.11n<br>HT40<br>CH 46<br>5230MHz |      | 5381.88   | 54.34                     | -19.66                  | 74                                | 46.16                           | 31.43                         | 10.19                  | 33.44                      | 400                  | 310                     | P                          | V    |
|                                     |      | 5434.24   | 41.77                     | -12.23                  | 54                                | 33.33                           | 31.64                         | 10.24                  | 33.44                      | 400                  | 310                     | A                          | V    |
|                                     |      | 5139.62   | 57.97                     | -16.03                  | 74                                | 49.55                           | 31.92                         | 9.97                   | 33.47                      | 100                  | 76                      | P                          | H    |
|                                     |      | 5150  | 45.16                     | -8.84                   | 54                                | 36.75                           | 31.9                          | 9.98                   | 33.47                      | 100                  | 76                      | A                          | H    |
|                                     | *    | 5230  | 114.33                    | -                       | -                                 | 106.21                          | 31.52                         | 10.06                  | 33.46                      | 100                  | 76                      | P                          | H    |
|                                     | *    | 5230  | 104.28                    | -                       | -                                 | 96.16                           | 31.52                         | 10.06                  | 33.46                      | 100                  | 76                      | A                          | H    |
|                                     |      | 5355.84   | 57.04                     | -16.96                  | 74                                | 49                              | 31.32                         | 10.16                  | 33.44                      | 100                  | 76                      | P                          | H    |
|                                     |      | 5351.36   | 43.97                     | -10.03                  | 54                                | 35.94                           | 31.31                         | 10.16                  | 33.44                      | 100                  | 76                      | A                          | H    |
|                                     |      | 5087.36   | 53.3                      | -20.7                   | 74                                | 44.92                           | 31.95                         | 9.9                    | 33.47                      | 395                  | 317                     | P                          | V    |
|                                     |      | 5108.16   | 42.14                     | -11.86                  | 54                                | 33.7                            | 31.98                         | 9.93                   | 33.47                      | 395                  | 317                     | A                          | V    |
| Remark                              | *    | 5230  | 109.23                    | -                       | -                                 | 101.11                          | 31.52                         | 10.06                  | 33.46                      | 395                  | 317                     | P                          | V    |
|                                     | *    | 5230  | 98.33                     | -                       | -                                 | 90.21                           | 31.52                         | 10.06                  | 33.46                      | 395                  | 317                     | A                          | V    |
|                                     |      | 5404.84   | 54.09                     | -19.91                  | 74                                | 45.8                            | 31.52                         | 10.21                  | 33.44                      | 395                  | 317                     | P                          | V    |
|                                     |      | 5379.08   | 42.14                     | -11.86                  | 54                                | 33.98                           | 31.42                         | 10.18                  | 33.44                      | 395                  | 317                     | A                          | V    |
|                                     |      | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                            |      |



## Band 1 5150~5250MHz

## WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI                                | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT40<br>CH 38<br>5190MHz |   | 10380                | 46.86                     | -21.34                  | 68.2                              | 51.64                           | 39.64                         | 15.62                  | 60.04                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15570                | 46.63                     | -27.37                  | 74                                | 47.02                           | 38.01                         | 19.6                   | 58                         | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10380                | 46.38                     | -21.82                  | 68.2                              | 51.16                           | 39.64                         | 15.62                  | 60.04                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15570                | 47.68                     | -26.32                  | 74                                | 48.07                           | 38.01                         | 19.6                   | 58                         | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT40<br>CH 46<br>5230MHz |   | 10460                | 47.9                      | -20.3                   | 68.2                              | 52.73                           | 39.7                          | 15.68                  | 60.21                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15690                | 58.67                     | -15.33                  | 74                                | 59.06                           | 37.8                          | 19.64                  | 57.83                      | 206                  | 162                     | P                     | H             |
|                                     |   | 15690                | 46.01                     | -7.99                   | 54                                | 46.4                            | 37.8                          | 19.64                  | 57.83                      | 206                  | 162                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10460                | 47.94                     | -20.26                  | 68.2                              | 52.77                           | 39.7                          | 15.68                  | 60.21                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15690                | 54.97                     | -19.03                  | 74                                | 55.36                           | 37.8                          | 19.64                  | 57.83                      | 200                  | 208                     | P                     | V             |
|                                     |   | 15690                | 42.47                     | -11.53                  | 54                                | 42.86                           | 37.8                          | 19.64                  | 57.83                      | 200                  | 208                     | A                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 1 5150~5250MHz

## WIFI 802.11ac VHT80 (Band Edge @ 3m)

| WIFI                                  | Note | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>(P/A) | Avg.<br>(H/V) |
|---------------------------------------|------|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|---------------|---------------|
| 802.11ac<br>VHT80<br>CH 42<br>5210MHz |      | 5146.38              | 58.98                     | -15.02                  | 74                                | 50.56                           | 31.91                         | 9.98                   | 33.47                      | 100                  | 75                      | P             | H             |
|                                       |      | 5143                 | 47.37                     | -6.63                   | 54                                | 38.96                           | 31.91                         | 9.97                   | 33.47                      | 100                  | 75                      | A             | H             |
|                                       | *    | 5210                 | 105.93                    | -                       | -                                 | 97.7                            | 31.64                         | 10.05                  | 33.46                      | 100                  | 75                      | P             | H             |
|                                       | *    | 5210                 | 95.53                     | -                       | -                                 | 87.3                            | 31.64                         | 10.05                  | 33.46                      | 100                  | 75                      | A             | H             |
|                                       |      | 5410.72              | 54.54                     | -19.46                  | 74                                | 46.23                           | 31.54                         | 10.21                  | 33.44                      | 100                  | 75                      | P             | H             |
|                                       |      | 5453                 | 42.6                      | -11.4                   | 54                                | 34.06                           | 31.71                         | 10.26                  | 33.43                      | 100                  | 75                      | A             | H             |
|                                       |      | 5066.56              | 53.73                     | -20.27                  | 74                                | 45.45                           | 31.87                         | 9.88                   | 33.47                      | 400                  | 315                     | P             | V             |
|                                       |      | 5145.08              | 41.94                     | -12.06                  | 54                                | 33.53                           | 31.91                         | 9.97                   | 33.47                      | 400                  | 315                     | A             | V             |
|                                       | *    | 5210                 | 99.43                     | -                       | -                                 | 91.2                            | 31.64                         | 10.05                  | 33.46                      | 400                  | 315                     | P             | V             |
|                                       | *    | 5210                 | 89.13                     | -                       | -                                 | 80.9                            | 31.64                         | 10.05                  | 33.46                      | 400                  | 315                     | A             | V             |
|                                       |      | 5450.48              | 53.72                     | -20.28                  | 74                                | 45.19                           | 31.7                          | 10.26                  | 33.43                      | 400                  | 315                     | P             | V             |
|                                       |      | 5458.88              | 41.88                     | -12.12                  | 54                                | 33.31                           | 31.74                         | 10.26                  | 33.43                      | 400                  | 315                     | A             | V             |



## Band 1 5150~5250MHz

## WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI                                  | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|---------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 42<br>5210MHz |   | 10420                | 46.4                      | -21.8                   | 68.2                              | 51.17                           | 39.7                          | 15.65                  | 60.12                      | 100                  | 0                       | P                     | H             |
|                                       |   | 15630                | 45.49                     | -28.51                  | 74                                | 45.99                           | 37.8                          | 19.62                  | 57.92                      | 100                  | 0                       | P                     | H             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                       |   | 10420                | 46.02                     | -22.18                  | 68.2                              | 50.79                           | 39.7                          | 15.65                  | 60.12                      | 100                  | 0                       | P                     | V             |
|                                       |   | 15630                | 45.71                     | -28.29                  | 74                                | 46.21                           | 37.8                          | 19.62                  | 57.92                      | 100                  | 0                       | P                     | V             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                                | 3. No other spurious found.<br>4. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 2 - 5250~5350MHz

## WIFI 802.11a (Band Edge @ 3m)

| WIFI                        | Note | Frequency | Level  | Over   | Limit | Read   | Antenna | Path  | Preamp | Ant | Table | Peak   | Pol. |        |     |     |
|-----------------------------|------|-----------|--------|--------|-------|--------|---------|-------|--------|-----|-------|--------|------|--------|-----|-----|
|                             |      |           |        |        |       |        |         |       |        |     |       | Limit  | Line | Level  |     |     |
|                             |      |           |        |        |       |        |         |       |        |     |       | Factor | Loss | Factor | Pos | Pos |
| 802.11a<br>CH 52<br>5260MHz |      | 5126.14   | 54.58  | -19.42 | 74    | 46.15  | 31.95   | 9.95  | 33.47  | 100 | 75    | P      | H    |        |     |     |
|                             |      | 5144.5    | 41.25  | -12.75 | 54    | 32.84  | 31.91   | 9.97  | 33.47  | 100 | 75    | A      | H    |        |     |     |
|                             | *    | 5260      | 114.41 | -      | -     | 106.39 | 31.38   | 10.09 | 33.45  | 100 | 75    | P      | H    |        |     |     |
|                             | *    | 5260      | 104.34 | -      | -     | 96.32  | 31.38   | 10.09 | 33.45  | 100 | 75    | A      | H    |        |     |     |
|                             |      | 5350.32   | 56.81  | -17.19 | 74    | 48.79  | 31.3    | 10.16 | 33.44  | 100 | 75    | P      | H    |        |     |     |
|                             |      | 5350.56   | 43.15  | -10.85 | 54    | 35.13  | 31.3    | 10.16 | 33.44  | 100 | 75    | A      | H    |        |     |     |
|                             |      | 5067.32   | 54.06  | -19.94 | 74    | 45.78  | 31.87   | 9.88  | 33.47  | 110 | 349   | P      | V    |        |     |     |
|                             |      | 5125.8    | 41.04  | -12.96 | 54    | 32.61  | 31.95   | 9.95  | 33.47  | 110 | 349   | A      | V    |        |     |     |
|                             | *    | 5260      | 106.94 | -      | -     | 98.92  | 31.38   | 10.09 | 33.45  | 110 | 349   | P      | V    |        |     |     |
|                             | *    | 5260      | 96.85  | -      | -     | 88.83  | 31.38   | 10.09 | 33.45  | 110 | 349   | A      | V    |        |     |     |
|                             |      | 5444.16   | 54.49  | -19.51 | 74    | 46     | 31.68   | 10.25 | 33.44  | 110 | 349   | P      | V    |        |     |     |
|                             |      | 5358.72   | 41.11  | -12.89 | 54    | 33.05  | 31.33   | 10.17 | 33.44  | 110 | 349   | A      | V    |        |     |     |
| 802.11a<br>CH 60<br>5300MHz |      | 5132.94   | 54.91  | -19.09 | 74    | 46.49  | 31.93   | 9.96  | 33.47  | 111 | 75    | P      | H    |        |     |     |
|                             |      | 5143.48   | 41.14  | -12.86 | 54    | 32.73  | 31.91   | 9.97  | 33.47  | 111 | 75    | A      | H    |        |     |     |
|                             | *    | 5300      | 114.39 | -      | -     | 106.42 | 31.3    | 10.12 | 33.45  | 111 | 75    | P      | H    |        |     |     |
|                             | *    | 5300      | 103.29 | -      | -     | 95.32  | 31.3    | 10.12 | 33.45  | 111 | 75    | A      | H    |        |     |     |
|                             |      | 5354.88   | 60     | -14    | 74    | 51.96  | 31.32   | 10.16 | 33.44  | 111 | 75    | P      | H    |        |     |     |
|                             |      | 5352.72   | 45.55  | -8.45  | 54    | 37.52  | 31.31   | 10.16 | 33.44  | 111 | 75    | A      | H    |        |     |     |
|                             |      | 5083.64   | 54.32  | -19.68 | 74    | 45.96  | 31.93   | 9.9   | 33.47  | 102 | 0     | P      | V    |        |     |     |
|                             |      | 5149.6    | 40.89  | -13.11 | 54    | 32.48  | 31.9    | 9.98  | 33.47  | 102 | 0     | A      | V    |        |     |     |
|                             | *    | 5300      | 106.13 | -      | -     | 98.16  | 31.3    | 10.12 | 33.45  | 102 | 0     | P      | V    |        |     |     |
|                             | *    | 5300      | 95.44  | -      | -     | 87.47  | 31.3    | 10.12 | 33.45  | 102 | 0     | A      | V    |        |     |     |
|                             |      | 5353.44   | 54.86  | -19.14 | 74    | 46.83  | 31.31   | 10.16 | 33.44  | 102 | 0     | P      | V    |        |     |     |
|                             |      | 5364      | 41.53  | -12.47 | 54    | 33.44  | 31.36   | 10.17 | 33.44  | 102 | 0     | A      | V    |        |     |     |



|                                      |   |         |        |        |    |        |       |       |       |     |     |   |   |
|--------------------------------------|---|---------|--------|--------|----|--------|-------|-------|-------|-----|-----|---|---|
| <b>802.11a<br/>CH 64<br/>5320MHz</b> | *   | 5320    | 114.32 | -      | -  | 106.33 | 31.3  | 10.14 | 33.45 | 100 | 76  | P | H |
|                                      | *   | 5320    | 103.35 | -      | -  | 95.36  | 31.3  | 10.14 | 33.45 | 100 | 76  | A | H |
|                                      |   | 5354.72 | 62.74  | -11.26 | 74 | 54.7   | 31.32 | 10.16 | 33.44 | 100 | 76  | P | H |
|                                      |   | 5370.08 | 44.94  | -9.06  | 54 | 36.82  | 31.38 | 10.18 | 33.44 | 100 | 76  | A | H |
|                                      |   |         |        |        |    |        |       |       |       |     |     |   | H |
|                                      |   |         |        |        |    |        |       |       |       |     |     |   | H |
|                                      | *   | 5320    | 106.33 | -      | -  | 98.34  | 31.3  | 10.14 | 33.45 | 100 | 348 | P | V |
|                                      | *   | 5320    | 95.72  | -      | -  | 87.73  | 31.3  | 10.14 | 33.45 | 100 | 348 | A | V |
|                                      |   | 5362.08 | 57.06  | -16.94 | 74 | 48.98  | 31.35 | 10.17 | 33.44 | 100 | 348 | P | V |
|                                      |   | 5359.36 | 41.63  | -12.37 | 54 | 33.56  | 31.34 | 10.17 | 33.44 | 100 | 348 | A | V |
|                                      |   |         |        |        |    |        |       |       |       |     |     |   | V |
|                                      |   |         |        |        |    |        |       |       |       |     |     |   | V |
| <b>Remark</b>                        | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |        |       |       |       |     |     |   |   |



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

| WIFI                                | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11a<br><br>CH 52<br><br>5260MHz |   | 10520                | 46.37                     | -21.83                  | 68.2                              | 51.25                           | 39.74                         | 15.73                  | 60.35                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15780                | 59.85                     | -14.15                  | 74                                | 60.24                           | 37.64                         | 19.68                  | 57.71                      | 209                  | 164                     | P                     | H             |
|                                     |   | 15780                | 45.46                     | -8.54                   | 54                                | 45.85                           | 37.64                         | 19.68                  | 57.71                      | 209                  | 164                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10520                | 46.25                     | -21.95                  | 68.2                              | 51.13                           | 39.74                         | 15.73                  | 60.35                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15780                | 55.48                     | -18.52                  | 74                                | 55.87                           | 37.64                         | 19.68                  | 57.71                      | 301                  | 143                     | P                     | V             |
|                                     |   | 15780                | 41.28                     | -12.72                  | 54                                | 41.67                           | 37.64                         | 19.68                  | 57.71                      | 301                  | 143                     | A                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11a<br><br>CH 60<br><br>5300MHz |   | 10600                | 46.46                     | -27.54                  | 74                                | 51.3                            | 39.9                          | 15.8                   | 60.54                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15900                | 56.77                     | -17.23                  | 74                                | 57.28                           | 37.3                          | 19.73                  | 57.54                      | 211                  | 162                     | P                     | H             |
|                                     |   | 15900                | 42.39                     | -11.61                  | 54                                | 42.9                            | 37.3                          | 19.73                  | 57.54                      | 211                  | 162                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10600                | 45.91                     | -28.09                  | 74                                | 50.75                           | 39.9                          | 15.8                   | 60.54                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15900                | 47.79                     | -26.21                  | 74                                | 48.3                            | 37.3                          | 19.73                  | 57.54                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11a<br><br>CH 64<br><br>5320MHz |   | 10640                | 45.84                     | -28.16                  | 74                                | 50.8                            | 39.86                         | 15.82                  | 60.64                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15960                | 48.74                     | -25.26                  | 74                                | 49.1                            | 37.36                         | 19.74                  | 57.46                      | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10640                | 46.12                     | -27.88                  | 74                                | 51.08                           | 39.86                         | 15.82                  | 60.64                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15960                | 46.5                      | -27.5                   | 74                                | 46.86                           | 37.36                         | 19.74                  | 57.46                      | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.<br>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<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A)(H/V) | Pol. |
|-------------------------------------|------|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|----------------------------|------|
| 802.11n<br>HT20<br>CH 52<br>5260MHz |      | 5146.88              | 54.01                     | -19.99                  | 74                                | 45.59                           | 31.91                         | 9.98                   | 33.47                      | 100                  | 74                      | P                          | H    |
|                                     |      | 5148.58              | 41.08                     | -12.92                  | 54                                | 32.67                           | 31.9                          | 9.98                   | 33.47                      | 100                  | 74                      | A                          | H    |
|                                     | *    | 5260                 | 114.63                    | -                       | -                                 | 106.61                          | 31.38                         | 10.09                  | 33.45                      | 100                  | 74                      | P                          | H    |
|                                     | *    | 5260                 | 103.49                    | -                       | -                                 | 95.47                           | 31.38                         | 10.09                  | 33.45                      | 100                  | 74                      | A                          | H    |
|                                     |      | 5356.32              | 57.33                     | -16.67                  | 74                                | 49.27                           | 31.33                         | 10.17                  | 33.44                      | 100                  | 74                      | P                          | H    |
|                                     |      | 5351.04              | 42.89                     | -11.11                  | 54                                | 34.87                           | 31.3                          | 10.16                  | 33.44                      | 100                  | 74                      | A                          | H    |
|                                     |      | 5148.58              | 54.25                     | -19.75                  | 74                                | 45.84                           | 31.9                          | 9.98                   | 33.47                      | 100                  | 352                     | P                          | V    |
|                                     |      | 5127.16              | 40.86                     | -13.14                  | 54                                | 32.43                           | 31.95                         | 9.95                   | 33.47                      | 100                  | 352                     | A                          | V    |
|                                     | *    | 5260                 | 106.77                    | -                       | -                                 | 98.75                           | 31.38                         | 10.09                  | 33.45                      | 100                  | 352                     | P                          | V    |
|                                     | *    | 5260                 | 96.11                     | -                       | -                                 | 88.09                           | 31.38                         | 10.09                  | 33.45                      | 100                  | 352                     | A                          | V    |
| 802.11n<br>HT20<br>CH 60<br>5300MHz |      | 5457.12              | 54.33                     | -19.67                  | 74                                | 45.77                           | 31.73                         | 10.26                  | 33.43                      | 100                  | 352                     | P                          | V    |
|                                     |      | 5352.48              | 40.91                     | -13.09                  | 54                                | 32.88                           | 31.31                         | 10.16                  | 33.44                      | 100                  | 352                     | A                          | V    |
|                                     |      | 5115.94              | 54.03                     | -19.97                  | 74                                | 45.59                           | 31.97                         | 9.94                   | 33.47                      | 100                  | 74                      | P                          | H    |
|                                     |      | 5141.78              | 40.97                     | -13.03                  | 54                                | 32.55                           | 31.92                         | 9.97                   | 33.47                      | 100                  | 74                      | A                          | H    |
|                                     | *    | 5300                 | 114.54                    | -                       | -                                 | 106.57                          | 31.3                          | 10.12                  | 33.45                      | 100                  | 74                      | P                          | H    |
|                                     | *    | 5300                 | 103.7                     | -                       | -                                 | 95.73                           | 31.3                          | 10.12                  | 33.45                      | 100                  | 74                      | A                          | H    |
|                                     |      | 5350.8               | 63.15                     | -10.85                  | 74                                | 55.13                           | 31.3                          | 10.16                  | 33.44                      | 100                  | 74                      | P                          | H    |
|                                     |      | 5355.36              | 45.66                     | -8.34                   | 54                                | 37.62                           | 31.32                         | 10.16                  | 33.44                      | 100                  | 74                      | A                          | H    |
|                                     |      | 5062.22              | 53.99                     | -20.01                  | 74                                | 45.74                           | 31.85                         | 9.87                   | 33.47                      | 104                  | 360                     | P                          | V    |
|                                     |      | 5128.18              | 40.84                     | -13.16                  | 54                                | 32.42                           | 31.94                         | 9.95                   | 33.47                      | 104                  | 360                     | A                          | V    |
| 5300MHz                             | *    | 5300                 | 106.15                    | -                       | -                                 | 98.18                           | 31.3                          | 10.12                  | 33.45                      | 104                  | 360                     | P                          | V    |
|                                     | *    | 5300                 | 95.43                     | -                       | -                                 | 87.46                           | 31.3                          | 10.12                  | 33.45                      | 104                  | 360                     | A                          | V    |
|                                     |      | 5355.6               | 56.16                     | -17.84                  | 74                                | 48.12                           | 31.32                         | 10.16                  | 33.44                      | 104                  | 360                     | P                          | V    |
|                                     |      | 5350.56              | 41.27                     | -12.73                  | 54                                | 33.25                           | 31.3                          | 10.16                  | 33.44                      | 104                  | 360                     | A                          | V    |



|                                     |   |         |        |        |    |        |       |       |       |     |     |   |   |
|-------------------------------------|---|---------|--------|--------|----|--------|-------|-------|-------|-----|-----|---|---|
| 802.11n<br>HT20<br>CH 64<br>5320MHz | *   | 5320    | 114.38 | -      | -  | 106.39 | 31.3  | 10.14 | 33.45 | 100 | 84  | P | H |
|                                     | *   | 5320    | 103.51 | -      | -  | 95.52  | 31.3  | 10.14 | 33.45 | 100 | 84  | A | H |
|                                     |   | 5353.44 | 67.07  | -6.93  | 74 | 59.04  | 31.31 | 10.16 | 33.44 | 100 | 84  | P | H |
|                                     |   | 5350.56 | 47.58  | -6.42  | 54 | 39.56  | 31.3  | 10.16 | 33.44 | 100 | 84  | A | H |
|                                     |   |         |        |        |    |        |       |       |       |     |     |   | H |
|                                     |   |         |        |        |    |        |       |       |       |     |     |   | H |
|                                     | *   | 5320    | 107.15 | -      | -  | 99.16  | 31.3  | 10.14 | 33.45 | 100 | 347 | P | V |
|                                     | *   | 5320    | 96.84  | -      | -  | 88.85  | 31.3  | 10.14 | 33.45 | 100 | 347 | A | V |
|                                     |   | 5350.56 | 60.5   | -13.5  | 74 | 52.48  | 31.3  | 10.16 | 33.44 | 100 | 347 | P | V |
|                                     |   | 5350.4  | 42.76  | -11.24 | 54 | 34.74  | 31.3  | 10.16 | 33.44 | 100 | 347 | A | V |
|                                     |   |         |        |        |    |        |       |       |       |     |     |   | V |
|                                     |   |         |        |        |    |        |       |       |       |     |     |   | V |
| Remark                              | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |        |    |        |       |       |       |     |     |   |   |



## Band 2 5250~5350MHz

## WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI                                | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT20<br>CH 52<br>5260MHz |   | 10520                | 46.6                      | -21.6                   | 68.2                              | 51.48                           | 39.74                         | 15.73                  | 60.35                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15780                | 62.62                     | -11.38                  | 74                                | 63.01                           | 37.64                         | 19.68                  | 57.71                      | 210                  | 162                     | P                     | H             |
|                                     |   | 15780                | 45.74                     | -8.26                   | 54                                | 46.13                           | 37.64                         | 19.68                  | 57.71                      | 210                  | 162                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10520                | 46.69                     | -21.51                  | 68.2                              | 51.57                           | 39.74                         | 15.73                  | 60.35                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15780                | 60.19                     | -13.81                  | 74                                | 60.58                           | 37.64                         | 19.68                  | 57.71                      | 329                  | 198                     | P                     | V             |
|                                     |   | 15780                | 42.72                     | -11.28                  | 54                                | 43.11                           | 37.64                         | 19.68                  | 57.71                      | 329                  | 198                     | A                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 60<br>5300MHz |   | 10600                | 46.85                     | -27.15                  | 74                                | 51.69                           | 39.9                          | 15.8                   | 60.54                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15900                | 61.36                     | -12.64                  | 74                                | 61.87                           | 37.3                          | 19.73                  | 57.54                      | 210                  | 163                     | P                     | H             |
|                                     |   | 15900                | 43.67                     | -10.33                  | 54                                | 44.18                           | 37.3                          | 19.73                  | 57.54                      | 210                  | 163                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10600                | 46.34                     | -27.66                  | 74                                | 51.18                           | 39.9                          | 15.8                   | 60.54                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15900                | 55.91                     | -18.09                  | 74                                | 56.42                           | 37.3                          | 19.73                  | 57.54                      | 300                  | 144                     | P                     | V             |
|                                     |   | 15900                | 40.01                     | -13.99                  | 54                                | 40.52                           | 37.3                          | 19.73                  | 57.54                      | 300                  | 144                     | A                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 64<br>5320MHz |   | 10640                | 46.1                      | -27.9                   | 74                                | 51.06                           | 39.86                         | 15.82                  | 60.64                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15960                | 65.38                     | -8.62                   | 74                                | 65.74                           | 37.36                         | 19.74                  | 57.46                      | 210                  | 163                     | P                     | H             |
|                                     |   | 15960                | 47.71                     | -6.29                   | 54                                | 48.07                           | 37.36                         | 19.74                  | 57.46                      | 210                  | 163                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10640                | 46.44                     | -27.56                  | 74                                | 51.4                            | 39.86                         | 15.82                  | 60.64                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15960                | 57.97                     | -16.03                  | 74                                | 58.33                           | 37.36                         | 19.74                  | 57.46                      | 332                  | 198                     | P                     | V             |
|                                     |   | 15960                | 41.88                     | -12.12                  | 54                                | 42.24                           | 37.36                         | 19.74                  | 57.46                      | 332                  | 198                     | A                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.<br>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<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A)(H/V) | Pol. |
|-------------------------------------|------|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|----------------------------|------|
| 802.11n<br>HT40<br>CH 54<br>5270MHz |      | 5123.42              | 54.34                     | -19.66                  | 74                                | 45.91                           | 31.95                         | 9.95                   | 33.47                      | 100                  | 74                      | P                          | H    |
|                                     |      | 5148.24              | 42.41                     | -11.59                  | 54                                | 34                              | 31.9                          | 9.98                   | 33.47                      | 100                  | 74                      | A                          | H    |
|                                     | *    | 5270                 | 113.6                     | -                       | -                                 | 105.59                          | 31.36                         | 10.1                   | 33.45                      | 100                  | 74                      | P                          | H    |
|                                     | *    | 5270                 | 103.2                     | -                       | -                                 | 95.19                           | 31.36                         | 10.1                   | 33.45                      | 100                  | 74                      | A                          | H    |
|                                     |      | 5350.8               | 62.88                     | -11.12                  | 74                                | 54.86                           | 31.3                          | 10.16                  | 33.44                      | 100                  | 74                      | P                          | H    |
|                                     |      | 5354.64              | 46.5                      | -7.5                    | 54                                | 38.46                           | 31.32                         | 10.16                  | 33.44                      | 100                  | 74                      | A                          | H    |
|                                     |      | 5144.5               | 54.49                     | -19.51                  | 74                                | 46.08                           | 31.91                         | 9.97                   | 33.47                      | 100                  | 349                     | P                          | V    |
|                                     |      | 5148.58              | 41.9                      | -12.1                   | 54                                | 33.49                           | 31.9                          | 9.98                   | 33.47                      | 100                  | 349                     | A                          | V    |
|                                     | *    | 5270                 | 106.6                     | -                       | -                                 | 98.59                           | 31.36                         | 10.1                   | 33.45                      | 100                  | 349                     | P                          | V    |
|                                     | *    | 5270                 | 96.6                      | -                       | -                                 | 88.59                           | 31.36                         | 10.1                   | 33.45                      | 100                  | 349                     | A                          | V    |
| 802.11n<br>HT40<br>CH 62<br>5310MHz |      | 5352                 | 55.83                     | -18.17                  | 74                                | 47.8                            | 31.31                         | 10.16                  | 33.44                      | 100                  | 349                     | P                          | V    |
|                                     |      | 5350.08              | 42.53                     | -11.47                  | 54                                | 34.51                           | 31.3                          | 10.16                  | 33.44                      | 100                  | 349                     | A                          | V    |
|                                     |      | 5129.88              | 54.31                     | -19.69                  | 74                                | 45.88                           | 31.94                         | 9.96                   | 33.47                      | 100                  | 73                      | P                          | H    |
|                                     |      | 5147.9               | 41.85                     | -12.15                  | 54                                | 33.44                           | 31.9                          | 9.98                   | 33.47                      | 100                  | 73                      | A                          | H    |
|                                     | *    | 5310                 | 109.38                    | -                       | -                                 | 101.4                           | 31.3                          | 10.13                  | 33.45                      | 100                  | 73                      | P                          | H    |
|                                     | *    | 5310                 | 99.38                     | -                       | -                                 | 91.4                            | 31.3                          | 10.13                  | 33.45                      | 100                  | 73                      | A                          | H    |
|                                     |      | 5364.24              | 63.06                     | -10.94                  | 74                                | 54.97                           | 31.36                         | 10.17                  | 33.44                      | 100                  | 73                      | P                          | H    |
|                                     |      | 5350.08              | 50.29                     | -3.71                   | 54                                | 42.27                           | 31.3                          | 10.16                  | 33.44                      | 100                  | 73                      | A                          | H    |
|                                     |      | 5132.6               | 54.35                     | -19.65                  | 74                                | 45.93                           | 31.93                         | 9.96                   | 33.47                      | 120                  | 351                     | P                          | V    |
|                                     |      | 5138.72              | 41.91                     | -12.09                  | 54                                | 33.49                           | 31.92                         | 9.97                   | 33.47                      | 120                  | 351                     | A                          | V    |
| Remark                              | *    | 5310                 | 102.28                    | -                       | -                                 | 94.3                            | 31.3                          | 10.13                  | 33.45                      | 120                  | 351                     | P                          | V    |
|                                     | *    | 5310                 | 92.38                     | -                       | -                                 | 84.4                            | 31.3                          | 10.13                  | 33.45                      | 120                  | 351                     | A                          | V    |
|                                     |      | 5350.8               | 58.25                     | -15.75                  | 74                                | 50.23                           | 31.3                          | 10.16                  | 33.44                      | 120                  | 351                     | P                          | V    |
|                                     |      | 5351.04              | 45.18                     | -8.82                   | 54                                | 37.16                           | 31.3                          | 10.16                  | 33.44                      | 120                  | 351                     | A                          | V    |



## Band 2 5250~5350MHz

## WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI                                | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|-------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT40<br>CH 54<br>5270MHz |   | 10540                | 46.48                     | -21.72                  | 68.2                              | 51.35                           | 39.78                         | 15.75                  | 60.4                       | 100                  | 0                       | P                     | H             |
|                                     |   | 15810                | 57.88                     | -16.12                  | 74                                | 58.29                           | 37.57                         | 19.69                  | 57.67                      | 205                  | 162                     | P                     | H             |
|                                     |   | 15810                | 45.93                     | -8.07                   | 54                                | 46.34                           | 37.57                         | 19.69                  | 57.67                      | 205                  | 162                     | A                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10540                | 46.68                     | -21.52                  | 68.2                              | 51.55                           | 39.78                         | 15.75                  | 60.4                       | 100                  | 0                       | P                     | V             |
|                                     |   | 15810                | 54.36                     | -19.64                  | 74                                | 54.77                           | 37.57                         | 19.69                  | 57.67                      | 196                  | 175                     | P                     | V             |
|                                     |   | 15810                | 42.73                     | -11.27                  | 54                                | 43.14                           | 37.57                         | 19.69                  | 57.67                      | 196                  | 175                     | A                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT40<br>CH 62<br>5310MHz |   | 10620                | 46.61                     | -27.39                  | 74                                | 51.52                           | 39.88                         | 15.8                   | 60.59                      | 100                  | 0                       | P                     | H             |
|                                     |   | 15930                | 46.84                     | -27.16                  | 74                                | 47.27                           | 37.33                         | 19.74                  | 57.5                       | 100                  | 0                       | P                     | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                     |   | 10620                | 46.48                     | -27.52                  | 74                                | 51.39                           | 39.88                         | 15.8                   | 60.59                      | 100                  | 0                       | P                     | V             |
|                                     |   | 15930                | 45.86                     | -28.14                  | 74                                | 46.29                           | 37.33                         | 19.74                  | 57.5                       | 100                  | 0                       | P                     | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                     |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                              | 1. No other spurious found.<br>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<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>(P/A) | Avg.<br>(H/V) |
|---------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|---------------|---------------|
| 802.11ac<br>VHT80<br>CH 58<br>5290MHz |   | 5069.7               | 54.53                     | -19.47                  | 74                                | 46.24                           | 31.88                         | 9.88                   | 33.47                      | 100                  | 73                      | P             | H             |
|                                       |   | 5143.82              | 41.98                     | -12.02                  | 54                                | 33.57                           | 31.91                         | 9.97                   | 33.47                      | 100                  | 73                      | A             | H             |
|                                       | *   | 5290                 | 101.38                    | -                       | -                                 | 93.4                            | 31.32                         | 10.11                  | 33.45                      | 100                  | 73                      | P             | H             |
|                                       | *   | 5290                 | 91.38                     | -                       | -                                 | 83.4                            | 31.32                         | 10.11                  | 33.45                      | 100                  | 73                      | A             | H             |
|                                       |   | 5357.28              | 59.72                     | -14.28                  | 74                                | 51.66                           | 31.33                         | 10.17                  | 33.44                      | 100                  | 73                      | P             | H             |
|                                       |   | 5353.68              | 46.82                     | -7.18                   | 54                                | 38.79                           | 31.31                         | 10.16                  | 33.44                      | 100                  | 73                      | A             | H             |
|                                       |   | 5140.76              | 54.19                     | -19.81                  | 74                                | 45.77                           | 31.92                         | 9.97                   | 33.47                      | 111                  | 348                     | P             | V             |
|                                       |   | 5136                 | 41.79                     | -12.21                  | 54                                | 33.37                           | 31.93                         | 9.96                   | 33.47                      | 111                  | 348                     | A             | V             |
|                                       | *   | 5290                 | 94.68                     | -                       | -                                 | 86.7                            | 31.32                         | 10.11                  | 33.45                      | 111                  | 348                     | P             | V             |
|                                       | *   | 5290                 | 84.38                     | -                       | -                                 | 76.4                            | 31.32                         | 10.11                  | 33.45                      | 111                  | 348                     | A             | V             |
|                                       |   | 5375.76              | 54.95                     | -19.05                  | 74                                | 46.81                           | 31.4                          | 10.18                  | 33.44                      | 111                  | 348                     | P             | V             |
|                                       |   | 5365.44              | 42.41                     | -11.59                  | 54                                | 34.32                           | 31.36                         | 10.17                  | 33.44                      | 111                  | 348                     | A             | V             |
| Remark                                | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |               |               |



## Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI                                  | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|---------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 58<br>5290MHz |   | 10580                | 46.2                      | -22                     | 68.2                              | 51.05                           | 39.86                         | 15.78                  | 60.49                      | 100                  | 0                       | P                     | H             |
|                                       |   | 15870                | 46.43                     | -27.57                  | 74                                | 46.91                           | 37.39                         | 19.71                  | 57.58                      | 100                  | 0                       | P                     | H             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                       |   | 10580                | 47.08                     | -21.12                  | 68.2                              | 51.93                           | 39.86                         | 15.78                  | 60.49                      | 100                  | 0                       | P                     | V             |
|                                       |   | 15870                | 46.43                     | -27.57                  | 74                                | 46.91                           | 37.39                         | 19.71                  | 57.58                      | 100                  | 0                       | P                     | V             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                       |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                                | 1. No other spurious found.<br>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 | Path  | Preamp | Ant | Table | Peak    | Pol.    |
|------------------------------|------|-----------|--------|--------|-------|--------|---------|-------|--------|-----|-------|---------|---------|
|                              |      |           |        |        |       |        |         |       |        |     |       | Avg.    |         |
|                              |      |           |        |        |       |        |         |       |        |     |       | ( P/A ) | ( H/V ) |
| 802.11a<br>CH 100<br>5500MHz |      | 5459.28   | 64.44  | -9.56  | 74    | 55.86  | 31.74   | 10.27 | 33.43  | 312 | 286   | P       | H       |
|                              |      | 5468.88   | 64.97  | -3.23  | 68.2  | 56.34  | 31.78   | 10.28 | 33.43  | 312 | 286   | P       | H       |
|                              |      | 5452.88   | 45.51  | -8.49  | 54    | 36.97  | 31.71   | 10.26 | 33.43  | 312 | 286   | A       | H       |
|                              | *    | 5500      | 113.42 | -      | -     | 104.64 | 31.9    | 10.31 | 33.43  | 312 | 286   | P       | H       |
|                              | *    | 5500      | 103.32 | -      | -     | 94.54  | 31.9    | 10.31 | 33.43  | 312 | 286   | A       | H       |
|                              |      |           |        |        |       |        |         |       |        |     |       |         | H       |
|                              |      | 5459.92   | 57.28  | -16.72 | 74    | 48.7   | 31.74   | 10.27 | 33.43  | 110 | 11    | P       | V       |
|                              |      | 5468.88   | 59.38  | -8.82  | 68.2  | 50.75  | 31.78   | 10.28 | 33.43  | 110 | 11    | P       | V       |
|                              |      | 5459.6    | 41.89  | -12.11 | 54    | 33.31  | 31.74   | 10.27 | 33.43  | 110 | 11    | A       | V       |
|                              | *    | 5500      | 106.67 | -      | -     | 97.89  | 31.9    | 10.31 | 33.43  | 110 | 11    | P       | V       |
|                              | *    | 5500      | 96.37  | -      | -     | 87.59  | 31.9    | 10.31 | 33.43  | 110 | 11    | A       | V       |
| 802.11a<br>CH 116<br>5580MHz |      | 5388.16   | 54.9   | -19.1  | 74    | 46.7   | 31.45   | 10.19 | 33.44  | 100 | 71    | P       | H       |
|                              |      | 5461.84   | 55.05  | -13.15 | 68.2  | 46.46  | 31.75   | 10.27 | 33.43  | 100 | 71    | P       | H       |
|                              |      | 5457.76   | 41.49  | -12.51 | 54    | 32.93  | 31.73   | 10.26 | 33.43  | 100 | 71    | A       | H       |
|                              | *    | 5580      | 115.09 | -      | -     | 106.33 | 31.8    | 10.4  | 33.44  | 100 | 71    | P       | H       |
|                              | *    | 5580      | 104.5  | -      | -     | 95.74  | 31.8    | 10.4  | 33.44  | 100 | 71    | A       | H       |
|                              |      | 5763.11   | 56.2   | -12    | 68.2  | 46.99  | 32.13   | 10.55 | 33.47  | 100 | 71    | P       | H       |
|                              |      | 5436.64   | 54.56  | -19.44 | 74    | 46.11  | 31.65   | 10.24 | 33.44  | 100 | 3     | P       | V       |
|                              |      | 5468.08   | 54.14  | -14.06 | 68.2  | 45.53  | 31.77   | 10.27 | 33.43  | 100 | 3     | P       | V       |
|                              |      | 5433.52   | 40.92  | -13.08 | 54    | 32.49  | 31.63   | 10.24 | 33.44  | 100 | 3     | A       | V       |
|                              | *    | 5580      | 109.63 | -      | -     | 100.87 | 31.8    | 10.4  | 33.44  | 100 | 3     | P       | V       |
|                              | *    | 5580      | 97.96  | -      | -     | 89.2   | 31.8    | 10.4  | 33.44  | 100 | 3     | A       | V       |
|                              |      | 5725.625  | 55.33  | -12.87 | 68.2  | 46.22  | 32.05   | 10.52 | 33.46  | 100 | 3     | P       | V       |



|                                       |   |        |        |        |      |       |       |       |       |     |    |   |   |
|---------------------------------------|---|--------|--------|--------|------|-------|-------|-------|-------|-----|----|---|---|
| <b>802.11a<br/>CH 140<br/>5700MHz</b> | *   | 5700   | 114.84 | -      | -    | 105.8 | 32    | 10.5  | 33.46 | 100 | 79 | P | H |
|                                       | *   | 5700   | 104.49 | -      | -    | 95.45 | 32    | 10.5  | 33.46 | 100 | 79 | A | H |
|                                       |   | 5749.8 | 62.2   | -6     | 68.2 | 53.02 | 32.1  | 10.54 | 33.46 | 100 | 79 | P | H |
|                                       |   |        |        |        |      |       |       |       |       |     |    |   | H |
|                                       |   |        |        |        |      |       |       |       |       |     |    |   | H |
|                                       |   |        |        |        |      |       |       |       |       |     |    |   | H |
|                                       | *   | 5700   | 106.69 | -      | -    | 97.65 | 32    | 10.5  | 33.46 | 111 | 2  | P | V |
|                                       | *   | 5700   | 96.75  | -      | -    | 87.71 | 32    | 10.5  | 33.46 | 111 | 2  | A | V |
|                                       |   | 5727.8 | 57.24  | -10.96 | 68.2 | 48.12 | 32.06 | 10.52 | 33.46 | 111 | 2  | P | V |
|                                       |   |        |        |        |      |       |       |       |       |     |    |   | V |
|                                       |   |        |        |        |      |       |       |       |       |     |    |   | V |
|                                       |   |        |        |        |      |       |       |       |       |     |    |   | V |
| <b>Remark</b>                         | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |        |        |        |      |       |       |       |       |     |    |   |   |



## Band 3 - 5470~5725MHz

## WIFI 802.11a (Harmonic @ 3m)

| WIFI                         | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11a<br>CH 100<br>5500MHz |   | 11000                | 46.58                     | -27.42                  | 74                                | 51.78                           | 40.2                          | 16.1                   | 61.5                       | 100                  | 0                       | P                     | H             |
|                              |   | 16500                | 46.21                     | -21.99                  | 68.2                              | 43.93                           | 39.4                          | 20.18                  | 57.3                       | 100                  | 0                       | P                     | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   | 11000                | 46.01                     | -27.99                  | 74                                | 51.21                           | 40.2                          | 16.1                   | 61.5                       | 100                  | 0                       | P                     | V             |
|                              |   | 16500                | 46.13                     | -22.07                  | 68.2                              | 43.85                           | 39.4                          | 20.18                  | 57.3                       | 100                  | 0                       | P                     | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11a<br>CH 116<br>5580MHz |   | 11160                | 47                        | -27                     | 74                                | 52.68                           | 39.62                         | 16.23                  | 61.53                      | 100                  | 0                       | P                     | H             |
|                              |   | 16740                | 47.12                     | -21.08                  | 68.2                              | 43.17                           | 40.4                          | 20.37                  | 56.82                      | 100                  | 0                       | P                     | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   | 11160                | 45.87                     | -28.13                  | 74                                | 51.55                           | 39.62                         | 16.23                  | 61.53                      | 100                  | 0                       | P                     | V             |
|                              |   | 16740                | 46.87                     | -21.33                  | 68.2                              | 42.92                           | 40.4                          | 20.37                  | 56.82                      | 100                  | 0                       | P                     | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11a<br>CH 140<br>5700MHz |   | 11400                | 46.3                      | -27.7                   | 74                                | 51.86                           | 39.6                          | 16.42                  | 61.58                      | 100                  | 0                       | P                     | H             |
|                              |   | 17100                | 52.61                     | -15.59                  | 68.2                              | 47.52                           | 40.5                          | 20.67                  | 56.08                      | 100                  | 0                       | P                     | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   | 11400                | 47                        | -27                     | 74                                | 52.56                           | 39.6                          | 16.42                  | 61.58                      | 100                  | 0                       | P                     | V             |
|                              |   | 17100                | 48.7                      | -19.5                   | 68.2                              | 43.61                           | 40.5                          | 20.67                  | 56.08                      | 100                  | 0                       | P                     | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                       | 1. No other spurious found.<br>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<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>(P/A) | Avg.<br>(H/V) |
|--------------------------------------|------|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|---------------|---------------|
| 802.11n<br>HT20<br>CH 100<br>5500MHz |      | 5459.92              | 62                        | -12                     | 74                                | 53.42                           | 31.74                         | 10.27                  | 33.43                      | 100                  | 72                      | P             | H             |
|                                      |      | 5469.84              | 63.93                     | -4.27                   | 68.2                              | 55.3                            | 31.78                         | 10.28                  | 33.43                      | 100                  | 72                      | P             | H             |
|                                      |      | 5452.56              | 43.82                     | -10.18                  | 54                                | 35.28                           | 31.71                         | 10.26                  | 33.43                      | 100                  | 72                      | A             | H             |
|                                      | *    | 5500                 | 112.9                     | -                       | -                                 | 104.12                          | 31.9                          | 10.31                  | 33.43                      | 100                  | 72                      | P             | H             |
|                                      | *    | 5500                 | 101.88                    | -                       | -                                 | 93.1                            | 31.9                          | 10.31                  | 33.43                      | 100                  | 72                      | A             | H             |
|                                      |      |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |               | H             |
|                                      |      | 5457.36              | 56.22                     | -17.78                  | 74                                | 47.66                           | 31.73                         | 10.26                  | 33.43                      | 109                  | 351                     | P             | V             |
|                                      |      | 5468.72              | 57.88                     | -10.32                  | 68.2                              | 49.26                           | 31.77                         | 10.28                  | 33.43                      | 109                  | 351                     | P             | V             |
|                                      |      | 5459.76              | 41.35                     | -12.65                  | 54                                | 32.77                           | 31.74                         | 10.27                  | 33.43                      | 109                  | 351                     | A             | V             |
|                                      | *    | 5500                 | 106.42                    | -                       | -                                 | 97.64                           | 31.9                          | 10.31                  | 33.43                      | 109                  | 351                     | P             | V             |
|                                      | *    | 5500                 | 95.52                     | -                       | -                                 | 86.74                           | 31.9                          | 10.31                  | 33.43                      | 109                  | 351                     | A             | V             |
|                                      |      |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |               | V             |
| 802.11n<br>HT20<br>CH 116<br>5580MHz |      | 5435.68              | 55.11                     | -18.89                  | 74                                | 46.67                           | 31.64                         | 10.24                  | 33.44                      | 107                  | 71                      | P             | H             |
|                                      |      | 5465.68              | 54.59                     | -13.61                  | 68.2                              | 45.99                           | 31.76                         | 10.27                  | 33.43                      | 107                  | 71                      | P             | H             |
|                                      |      | 5452.96              | 41.53                     | -12.47                  | 54                                | 32.99                           | 31.71                         | 10.26                  | 33.43                      | 107                  | 71                      | A             | H             |
|                                      | *    | 5580                 | 115.37                    | -                       | -                                 | 106.61                          | 31.8                          | 10.4                   | 33.44                      | 107                  | 71                      | P             | H             |
|                                      | *    | 5580                 | 104.46                    | -                       | -                                 | 95.7                            | 31.8                          | 10.4                   | 33.44                      | 107                  | 71                      | A             | H             |
|                                      |      | 5743.265             | 55.54                     | -12.66                  | 68.2                              | 46.38                           | 32.09                         | 10.53                  | 33.46                      | 107                  | 71                      | P             | H             |
|                                      |      | 5437.36              | 54.42                     | -19.58                  | 74                                | 45.97                           | 31.65                         | 10.24                  | 33.44                      | 100                  | 360                     | P             | V             |
|                                      |      | 5469.52              | 53.66                     | -14.54                  | 68.2                              | 45.03                           | 31.78                         | 10.28                  | 33.43                      | 100                  | 360                     | P             | V             |
|                                      |      | 5443.84              | 40.94                     | -13.06                  | 54                                | 32.45                           | 31.68                         | 10.25                  | 33.44                      | 100                  | 360                     | A             | V             |
|                                      | *    | 5580                 | 108.2                     | -                       | -                                 | 99.44                           | 31.8                          | 10.4                   | 33.44                      | 100                  | 360                     | P             | V             |
|                                      | *    | 5580                 | 97.14                     | -                       | -                                 | 88.38                           | 31.8                          | 10.4                   | 33.44                      | 100                  | 360                     | A             | V             |
|                                      |      | 5741.375             | 55.04                     | -13.16                  | 68.2                              | 45.89                           | 32.08                         | 10.53                  | 33.46                      | 100                  | 360                     | P             | V             |



|                                      |   |         |        |       |      |       |       |       |       |     |     |   |   |
|--------------------------------------|---|---------|--------|-------|------|-------|-------|-------|-------|-----|-----|---|---|
| 802.11n<br>HT20<br>CH 140<br>5700MHz | *   | 5700    | 111.24 | -     | -    | 102.2 | 32    | 10.5  | 33.46 | 100 | 78  | P | H |
|                                      | *   | 5700    | 100.24 | -     | -    | 91.2  | 32    | 10.5  | 33.46 | 100 | 78  | A | H |
|                                      |   | 5728.76 | 61.7   | -6.5  | 68.2 | 52.58 | 32.06 | 10.52 | 33.46 | 100 | 78  | P | H |
|                                      |   |         |        |       |      |       |       |       |       |     |     |   | H |
|                                      |   |         |        |       |      |       |       |       |       |     |     |   | H |
|                                      |   |         |        |       |      |       |       |       |       |     |     |   | H |
|                                      |   |         |        |       |      |       |       |       |       |     |     |   | V |
|                                      | *   | 5700    | 105.14 | -     | -    | 96.1  | 32    | 10.5  | 33.46 | 400 | 339 | P | V |
|                                      | *   | 5700    | 94.04  | -     | -    | 85    | 32    | 10.5  | 33.46 | 400 | 339 | A | V |
|                                      |   | 5746.2  | 59.97  | -8.23 | 68.2 | 50.8  | 32.09 | 10.54 | 33.46 | 400 | 339 | P | V |
|                                      |   |         |        |       |      |       |       |       |       |     |     |   | V |
|                                      |   |         |        |       |      |       |       |       |       |     |     |   | V |
|                                      |   |         |        |       |      |       |       |       |       |     |     |   | V |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |         |        |       |      |       |       |       |       |     |     |   |   |



## Band 3 - 5470~5725MHz

## WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI                                 | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT20<br>CH 100<br>5500MHz |   | 11000                | 45.49                     | -28.51                  | 74                                | 50.69                           | 40.2                          | 16.1                   | 61.5                       | 100                  | 0                       | P                     | H             |
|                                      |   | 16500                | 45.83                     | -22.37                  | 68.2                              | 43.55                           | 39.4                          | 20.18                  | 57.3                       | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11000                | 46.55                     | -27.45                  | 74                                | 51.75                           | 40.2                          | 16.1                   | 61.5                       | 100                  | 0                       | P                     | V             |
|                                      |   | 16500                | 45.69                     | -22.51                  | 68.2                              | 43.41                           | 39.4                          | 20.18                  | 57.3                       | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 116<br>5580MHz |   | 11160                | 45.93                     | -28.07                  | 74                                | 51.61                           | 39.62                         | 16.23                  | 61.53                      | 100                  | 0                       | P                     | H             |
|                                      |   | 16740                | 47.56                     | -20.64                  | 68.2                              | 43.61                           | 40.4                          | 20.37                  | 56.82                      | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11160                | 46.17                     | -27.83                  | 74                                | 51.85                           | 39.62                         | 16.23                  | 61.53                      | 100                  | 0                       | P                     | V             |
|                                      |   | 16740                | 46.84                     | -21.36                  | 68.2                              | 42.89                           | 40.4                          | 20.37                  | 56.82                      | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT20<br>CH 140<br>5700MHz |   | 11400                | 45.93                     | -28.07                  | 74                                | 51.49                           | 39.6                          | 16.42                  | 61.58                      | 100                  | 0                       | P                     | H             |
|                                      |   | 17100                | 49.19                     | -19.01                  | 68.2                              | 44.1                            | 40.5                          | 20.67                  | 56.08                      | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11400                | 46.32                     | -27.68                  | 74                                | 51.88                           | 39.6                          | 16.42                  | 61.58                      | 100                  | 0                       | P                     | V             |
|                                      |   | 17100                | 48.99                     | -19.21                  | 68.2                              | 43.9                            | 40.5                          | 20.67                  | 56.08                      | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                               | 1. No other spurious found.<br>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<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A)(H/V) | Pol. |
|--------------------------------------|------|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|----------------------------|------|
| 802.11n<br>HT40<br>CH 102<br>5510MHz |      | 5459.2               | 60.66                     | -13.34                  | 74                                | 52.08                           | 31.74                         | 10.27                  | 33.43                      | 100                  | 62                      | P                          | H    |
|                                      |      | 5470                 | 63.84                     | -4.36                   | 68.2                              | 55.21                           | 31.78                         | 10.28                  | 33.43                      | 100                  | 62                      | P                          | H    |
|                                      |      | 5459.92              | 49.41                     | -4.59                   | 54                                | 40.83                           | 31.74                         | 10.27                  | 33.43                      | 100                  | 62                      | A                          | H    |
|                                      | *    | 5510                 | 112.22                    | -                       | -                                 | 103.45                          | 31.88                         | 10.32                  | 33.43                      | 100                  | 62                      | P                          | H    |
|                                      | *    | 5510                 | 101.29                    | -                       | -                                 | 92.52                           | 31.88                         | 10.32                  | 33.43                      | 100                  | 62                      | A                          | H    |
|                                      |      | 5746.73              | 58.86                     | -9.34                   | 68.2                              | 49.69                           | 32.09                         | 10.54                  | 33.46                      | 100                  | 62                      | P                          | H    |
|                                      |      | 5458.48              | 55.53                     | -18.47                  | 74                                | 46.97                           | 31.73                         | 10.26                  | 33.43                      | 100                  | 347                     | P                          | V    |
|                                      |      | 5470                 | 58.34                     | -9.86                   | 68.2                              | 49.71                           | 31.78                         | 10.28                  | 33.43                      | 100                  | 347                     | P                          | V    |
|                                      |      | 5458.96              | 44                        | -10                     | 54                                | 35.43                           | 31.74                         | 10.26                  | 33.43                      | 100                  | 347                     | A                          | V    |
|                                      | *    | 5510                 | 103.8                     | -                       | -                                 | 95.03                           | 31.88                         | 10.32                  | 33.43                      | 100                  | 347                     | P                          | V    |
| 802.11n<br>HT40<br>CH 110<br>5550MHz | *    | 5510                 | 93.54                     | -                       | -                                 | 84.77                           | 31.88                         | 10.32                  | 33.43                      | 100                  | 347                     | A                          | V    |
|                                      |      | 5746.415             | 58.18                     | -10.02                  | 68.2                              | 49.01                           | 32.09                         | 10.54                  | 33.46                      | 100                  | 347                     | P                          | V    |
|                                      |      | 5458.72              | 55.07                     | -18.93                  | 74                                | 46.51                           | 31.73                         | 10.26                  | 33.43                      | 106                  | 61                      | P                          | H    |
|                                      |      | 5470                 | 57.25                     | -10.95                  | 68.2                              | 48.62                           | 31.78                         | 10.28                  | 33.43                      | 106                  | 61                      | P                          | H    |
|                                      |      | 5459.68              | 43.61                     | -10.39                  | 54                                | 35.03                           | 31.74                         | 10.27                  | 33.43                      | 106                  | 61                      | A                          | H    |
|                                      | *    | 5550                 | 112.54                    | -                       | -                                 | 103.82                          | 31.8                          | 10.36                  | 33.44                      | 106                  | 61                      | P                          | H    |
|                                      | *    | 5550                 | 102.48                    | -                       | -                                 | 93.76                           | 31.8                          | 10.36                  | 33.44                      | 106                  | 61                      | A                          | H    |
|                                      |      | 5747.675             | 58.01                     | -10.19                  | 68.2                              | 48.83                           | 32.1                          | 10.54                  | 33.46                      | 106                  | 61                      | P                          | H    |
|                                      |      | 5448.16              | 53.37                     | -20.63                  | 74                                | 44.87                           | 31.69                         | 10.25                  | 33.44                      | 118                  | 347                     | P                          | V    |
|                                      |      | 5466.16              | 53.36                     | -14.84                  | 68.2                              | 44.76                           | 31.76                         | 10.27                  | 33.43                      | 118                  | 347                     | P                          | V    |
| 802.11n<br>HT40<br>CH 110<br>5550MHz |      | 5457.76              | 41.98                     | -12.02                  | 54                                | 33.42                           | 31.73                         | 10.26                  | 33.43                      | 118                  | 347                     | A                          | V    |
|                                      | *    | 5550                 | 105.68                    | -                       | -                                 | 96.96                           | 31.8                          | 10.36                  | 33.44                      | 118                  | 347                     | P                          | V    |
|                                      | *    | 5550                 | 95.5                      | -                       | -                                 | 86.78                           | 31.8                          | 10.36                  | 33.44                      | 118                  | 347                     | A                          | V    |
|                                      |      | 5746.415             | 58.06                     | -10.14                  | 68.2                              | 48.89                           | 32.09                         | 10.54                  | 33.46                      | 118                  | 347                     | P                          | V    |



|                                      |   |          |        |        |      |        |       |       |       |     |     |   |   |
|--------------------------------------|---|----------|--------|--------|------|--------|-------|-------|-------|-----|-----|---|---|
| 802.11n<br>HT40<br>CH 134<br>5670MHz |   | 5354.55  | 54.76  | -19.24 | 74   | 46.72  | 31.32 | 10.16 | 33.44 | 100 | 75  | P | H |
|                                      |   | 5466.2   | 54.04  | -14.16 | 68.2 | 45.44  | 31.76 | 10.27 | 33.43 | 100 | 75  | P | H |
|                                      |   | 5437.85  | 41.67  | -12.33 | 54   | 33.22  | 31.65 | 10.24 | 33.44 | 100 | 75  | A | H |
|                                      | *   | 5670     | 111.88 | -      | -    | 103.03 | 31.82 | 10.48 | 33.45 | 100 | 75  | P | H |
|                                      | *   | 5670     | 101.77 | -      | -    | 92.92  | 31.82 | 10.48 | 33.45 | 100 | 75  | A | H |
|                                      |   | 5725.45  | 63.85  | -4.35  | 68.2 | 54.74  | 32.05 | 10.52 | 33.46 | 100 | 75  | P | H |
|                                      |   | 5428.4   | 54.48  | -19.52 | 74   | 46.08  | 31.61 | 10.23 | 33.44 | 100 | 349 | P | V |
|                                      |   | 5466.9   | 54.35  | -13.85 | 68.2 | 45.74  | 31.77 | 10.27 | 33.43 | 100 | 349 | P | V |
|                                      |   | 5457.1   | 41.59  | -12.41 | 54   | 33.03  | 31.73 | 10.26 | 33.43 | 100 | 349 | A | V |
|                                      | *   | 5670     | 104.08 | -      | -    | 95.23  | 31.82 | 10.48 | 33.45 | 100 | 349 | P | V |
|                                      | *   | 5670     | 93.39  | -      | -    | 84.54  | 31.82 | 10.48 | 33.45 | 100 | 349 | A | V |
|                                      |   | 5747.675 | 58.95  | -9.25  | 68.2 | 49.77  | 32.1  | 10.54 | 33.46 | 100 | 349 | P | V |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |          |        |        |      |        |       |       |       |     |     |   |   |



## Band 3 - 5470~5725MHz

## WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI                                 | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT40<br>CH 102<br>5510MHz |   | 11020                | 45.63                     | -28.37                  | 74                                | 50.89                           | 40.12                         | 16.12                  | 61.5                       | 100                  | 0                       | P                     | H             |
|                                      |   | 16530                | 46.84                     | -21.36                  | 68.2                              | 44.48                           | 39.4                          | 20.2                   | 57.24                      | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11020                | 46.04                     | -27.96                  | 74                                | 51.3                            | 40.12                         | 16.12                  | 61.5                       | 100                  | 0                       | P                     | V             |
|                                      |   | 16530                | 46.04                     | -22.16                  | 68.2                              | 43.68                           | 39.4                          | 20.2                   | 57.24                      | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT40<br>CH 110<br>5550MHz |   | 11100                | 46.36                     | -27.64                  | 74                                | 51.9                            | 39.8                          | 16.18                  | 61.52                      | 100                  | 0                       | P                     | H             |
|                                      |   | 16650                | 47.46                     | -20.74                  | 68.2                              | 44.36                           | 39.8                          | 20.3                   | 57                         | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11100                | 46.92                     | -27.08                  | 74                                | 52.46                           | 39.8                          | 16.18                  | 61.52                      | 100                  | 0                       | P                     | V             |
|                                      |   | 16650                | 46.65                     | -21.55                  | 68.2                              | 43.55                           | 39.8                          | 20.3                   | 57                         | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11n<br>HT40<br>CH 134<br>5670MHz |   | 11340                | 47.53                     | -26.47                  | 74                                | 53.18                           | 39.54                         | 16.38                  | 61.57                      | 100                  | 0                       | P                     | H             |
|                                      |   | 17010                | 48.71                     | -19.49                  | 68.2                              | 43.9                            | 40.5                          | 20.59                  | 56.28                      | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11340                | 46.14                     | -27.86                  | 74                                | 51.79                           | 39.54                         | 16.38                  | 61.57                      | 100                  | 0                       | P                     | V             |
|                                      |   | 17010                | 48.38                     | -19.82                  | 68.2                              | 43.57                           | 40.5                          | 20.59                  | 56.28                      | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                               | 1. No other spurious found.<br>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<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>(P/A) | Avg.<br>(H/V) |
|--|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|---------------|---------------|
| 802.11ac<br>VHT80<br>CH 106<br>5530MHz |   | 5452.24              | 63.51                     | -10.49                  | 74                                | 54.97                           | 31.71                         | 10.26                  | 33.43                      | 301                  | 73                      | P             | H             |
|  |   | 5462.08              | 62.64                     | -5.56                   | 68.2                              | 54.05                           | 31.75                         | 10.27                  | 33.43                      | 301                  | 73                      | P             | H             |
|  |   | 5458                 | 51.85                     | -2.15                   | 54                                | 43.29                           | 31.73                         | 10.26                  | 33.43                      | 301                  | 73                      | A             | H             |
|  | *   | 5530                 | 111.35                    | -                       | -                                 | 102.6                           | 31.84                         | 10.34                  | 33.43                      | 301                  | 73                      | P             | H             |
|  | *   | 5530                 | 101.51                    | -                       | -                                 | 92.76                           | 31.84                         | 10.34                  | 33.43                      | 301                  | 73                      | A             | H             |
|  |   | 5744.525             | 55.07                     | -13.13                  | 68.2                              | 45.9                            | 32.09                         | 10.54                  | 33.46                      | 301                  | 73                      | P             | H             |
|  |   | 5456.56              | 55.54                     | -18.46                  | 74                                | 46.98                           | 31.73                         | 10.26                  | 33.43                      | 365                  | 355                     | P             | V             |
|  |   | 5460.16              | 54.21                     | -13.99                  | 68.2                              | 45.63                           | 31.74                         | 10.27                  | 33.43                      | 365                  | 355                     | P             | V             |
|  |   | 5458.24              | 43.42                     | -10.58                  | 54                                | 34.86                           | 31.73                         | 10.26                  | 33.43                      | 365                  | 355                     | A             | V             |
|  | *   | 5530                 | 106.32                    | -                       | -                                 | 97.57                           | 31.84                         | 10.34                  | 33.43                      | 365                  | 355                     | P             | V             |
|  | *   | 5530                 | 96.26                     | -                       | -                                 | 87.51                           | 31.84                         | 10.34                  | 33.43                      | 365                  | 355                     | A             | V             |
|  |   | 5753.66              | 53.95                     | -14.25                  | 68.2                              | 44.77                           | 32.11                         | 10.54                  | 33.47                      | 365                  | 355                     | P             | V             |
| 802.11ac<br>VHT80<br>CH 122<br>5610MHz |   | 5457.28              | 58.32                     | -15.68                  | 74                                | 49.76                           | 31.73                         | 10.26                  | 33.43                      | 114                  | 60                      | P             | H             |
|  |   | 5466.4               | 59.11                     | -9.09                   | 68.2                              | 50.5                            | 31.77                         | 10.27                  | 33.43                      | 114                  | 60                      | P             | H             |
|  |   | 5459.92              | 45.05                     | -8.95                   | 54                                | 36.47                           | 31.74                         | 10.27                  | 33.43                      | 114                  | 60                      | A             | H             |
|  | *   | 5610                 | 111.33                    | -                       | -                                 | 102.57                          | 31.78                         | 10.43                  | 33.45                      | 114                  | 60                      | P             | H             |
|  | *   | 5610                 | 100.64                    | -                       | -                                 | 91.88                           | 31.78                         | 10.43                  | 33.45                      | 114                  | 60                      | A             | H             |
|  |   | 5725.94              | 60.74                     | -7.46                   | 68.2                              | 51.63                           | 32.05                         | 10.52                  | 33.46                      | 114                  | 60                      | P             | H             |
|  |   | 5454.64              | 55.45                     | -18.55                  | 74                                | 46.9                            | 31.72                         | 10.26                  | 33.43                      | 100                  | 360                     | P             | V             |
|  |   | 5466.16              | 54.46                     | -13.74                  | 68.2                              | 45.86                           | 31.76                         | 10.27                  | 33.43                      | 100                  | 360                     | P             | V             |
|  |   | 5454.4               | 41.92                     | -12.08                  | 54                                | 33.37                           | 31.72                         | 10.26                  | 33.43                      | 100                  | 360                     | A             | V             |
|  | *   | 5610                 | 104.58                    | -                       | -                                 | 95.82                           | 31.78                         | 10.43                  | 33.45                      | 100                  | 360                     | P             | V             |
|  | *   | 5610                 | 93.56                     | -                       | -                                 | 84.8                            | 31.78                         | 10.43                  | 33.45                      | 100                  | 360                     | A             | V             |
| Remark                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |               |               |



## Band 3 5470~5725MHz

## WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI                                   | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 106<br>5530MHz |   | 11060                | 45.83                     | -28.17                  | 74                                | 51.23                           | 39.96                         | 16.15                  | 61.51                      | 100                  | 0                       | P                     | H             |
|  |   | 16590                | 46.79                     | -21.41                  | 68.2                              | 44.26                           | 39.4                          | 20.25                  | 57.12                      | 100                  | 0                       | P                     | H             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|  |   | 11060                | 45.77                     | -28.23                  | 74                                | 51.17                           | 39.96                         | 16.15                  | 61.51                      | 100                  | 0                       | P                     | V             |
|  |   | 16590                | 46.48                     | -21.72                  | 68.2                              | 43.95                           | 39.4                          | 20.25                  | 57.12                      | 100                  | 0                       | P                     | V             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| 802.11ac<br>VHT80<br>CH 122<br>5610MHz |   | 11220                | 45.83                     | -28.17                  | 74                                | 51.59                           | 39.5                          | 16.28                  | 61.54                      | 100                  | 0                       | P                     | H             |
|  |   | 16830                | 47.49                     | -20.71                  | 68.2                              | 43.16                           | 40.52                         | 20.45                  | 56.64                      | 100                  | 0                       | P                     | H             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|  |   | 11220                | 46.28                     | -27.72                  | 74                                | 52.04                           | 39.5                          | 16.28                  | 61.54                      | 100                  | 0                       | P                     | V             |
|  |   | 16830                | 46.94                     | -21.26                  | 68.2                              | 42.61                           | 40.52                         | 20.45                  | 56.64                      | 100                  | 0                       | P                     | V             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 3 - Straddle Channel

## WIFI 802.11a (Band Edge @ 3m)

| WIFI                         | Note  | Frequency | Level  | Over   | Limit | Read   | Antenna | Path  | Preamp | Ant | Table | Peak   | Pol. |        |     |     |
|------------------------------|---|-----------|--------|--------|-------|--------|---------|-------|--------|-----|-------|--------|------|--------|-----|-----|
|                              |   |           |        |        |       |        |         |       |        |     |       | Limit  | Line | Level  |     |     |
|                              |   |           |        |        |       |        |         |       |        |     |       | Factor | Loss | Factor | Pos | Pos |
| 802.11a<br>CH 144<br>5720MHz |   | 5438.53   | 53.9   | -20.1  | 74    | 45.45  | 31.65   | 10.24 | 33.44  | 100 | 78    | P      | H    |        |     |     |
|                              |   | 5463.88   | 53.39  | -14.81 | 68.2  | 44.79  | 31.76   | 10.27 | 33.43  | 100 | 78    | P      | H    |        |     |     |
|                              |   | 5458.42   | 40.94  | -13.06 | 54    | 32.38  | 31.73   | 10.26 | 33.43  | 100 | 78    | A      | H    |        |     |     |
|                              | *   | 5720      | 113.75 | -      | -     | 104.65 | 32.04   | 10.52 | 33.46  | 100 | 78    | P      | H    |        |     |     |
|                              | *   | 5720      | 103.15 | -      | -     | 94.05  | 32.04   | 10.52 | 33.46  | 100 | 78    | A      | H    |        |     |     |
|                              |   | 5851.25   | 57.39  | -10.81 | 68.2  | 47.95  | 32.3    | 10.62 | 33.48  | 100 | 78    | P      | H    |        |     |     |
|                              |   | 5394.85   | 53.39  | -20.61 | 74    | 45.15  | 31.48   | 10.2  | 33.44  | 107 | 3     | P      | V    |        |     |     |
|                              |   | 5470      | 52.96  | -15.24 | 68.2  | 44.33  | 31.78   | 10.28 | 33.43  | 107 | 3     | P      | V    |        |     |     |
|                              |   | 5458.42   | 40.71  | -13.29 | 54    | 32.15  | 31.73   | 10.26 | 33.43  | 107 | 3     | A      | V    |        |     |     |
|                              | *   | 5720      | 105.8  | -      | -     | 96.7   | 32.04   | 10.52 | 33.46  | 107 | 3     | P      | V    |        |     |     |
|                              | *   | 5720      | 95.4   | -      | -     | 86.3   | 32.04   | 10.52 | 33.46  | 107 | 3     | A      | V    |        |     |     |
|                              |   | 5945.5    | 56.03  | -12.17 | 68.2  | 46.25  | 32.58   | 10.69 | 33.49  | 107 | 3     | P      | V    |        |     |     |
| Remark                       | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |           |        |        |       |        |         |       |        |     |       |        |      |        |     |     |



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

| WIFI                         | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11a<br>CH 144<br>5720MHz |   | 11440                | 46.4                      | -27.6                   | 74                                | 51.86                           | 39.68                         | 16.45                  | 61.59                      | 100                  | 0                       | P                     | H             |
|                              |   | 17160                | 50.35                     | -17.85                  | 68.2                              | 45.03                           | 40.56                         | 20.71                  | 55.95                      | 100                  | 0                       | P                     | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                              |   | 11440                | 45.58                     | -28.42                  | 74                                | 51.04                           | 39.68                         | 16.45                  | 61.59                      | 100                  | 0                       | P                     | V             |
|                              |   | 17160                | 48.58                     | -19.62                  | 68.2                              | 43.26                           | 40.56                         | 20.71                  | 55.95                      | 100                  | 0                       | P                     | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                              |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                       | 1. No other spurious found.<br>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<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>(P/A) | Avg.<br>(H/V) |
|--------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|---------------|---------------|
| 802.11n<br>HT20<br>CH 144<br>5720MHz |   | 5424.88              | 54.76                     | -19.24                  | 74                                | 46.37                           | 31.6                          | 10.23                  | 33.44                      | 100                  | 76                      | P             | H             |
|                                      |   | 5468.17              | 53.74                     | -14.46                  | 68.2                              | 45.13                           | 31.77                         | 10.27                  | 33.43                      | 100                  | 76                      | P             | H             |
|                                      |   | 5453.35              | 41.12                     | -12.88                  | 54                                | 32.58                           | 31.71                         | 10.26                  | 33.43                      | 100                  | 76                      | A             | H             |
|                                      | *   | 5720                 | 113.15                    | -                       | -                                 | 104.05                          | 32.04                         | 10.52                  | 33.46                      | 100                  | 76                      | P             | H             |
|                                      | *   | 5720                 | 102.15                    | -                       | -                                 | 93.05                           | 32.04                         | 10.52                  | 33.46                      | 100                  | 76                      | A             | H             |
|                                      |   | 5930.75              | 57.37                     | -10.83                  | 68.2                              | 47.66                           | 32.52                         | 10.68                  | 33.49                      | 100                  | 76                      | P             | H             |
|                                      |   | 5434.63              | 54.64                     | -19.36                  | 74                                | 46.2                            | 31.64                         | 10.24                  | 33.44                      | 399                  | 336                     | P             | V             |
|                                      |   | 5464.27              | 53.74                     | -14.46                  | 68.2                              | 45.14                           | 31.76                         | 10.27                  | 33.43                      | 399                  | 336                     | P             | V             |
|                                      |   | 5438.14              | 41.08                     | -12.92                  | 54                                | 32.63                           | 31.65                         | 10.24                  | 33.44                      | 399                  | 336                     | A             | V             |
|                                      | *   | 5720                 | 109.19                    | -                       | -                                 | 100.09                          | 32.04                         | 10.52                  | 33.46                      | 399                  | 336                     | P             | V             |
|                                      | *   | 5720                 | 98.2                      | -                       | -                                 | 89.1                            | 32.04                         | 10.52                  | 33.46                      | 399                  | 336                     | A             | V             |
|                                      |   | 5888.5               | 55.78                     | -12.42                  | 68.2                              | 46.23                           | 32.38                         | 10.65                  | 33.48                      | 399                  | 336                     | P             | V             |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |               |               |



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

| WIFI                                 | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT20<br>CH 144<br>5720MHz |   | 11440                | 45.85                     | -28.15                  | 74                                | 51.31                           | 39.68                         | 16.45                  | 61.59                      | 100                  | 0                       | P                     | H             |
|                                      |   | 17160                | 50.68                     | -17.52                  | 68.2                              | 45.36                           | 40.56                         | 20.71                  | 55.95                      | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11440                | 46.76                     | -27.24                  | 74                                | 52.22                           | 39.68                         | 16.45                  | 61.59                      | 100                  | 0                       | P                     | V             |
|                                      |   | 17160                | 48.6                      | -19.6                   | 68.2                              | 43.28                           | 40.56                         | 20.71                  | 55.95                      | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 3 - Straddle Channel

## WIFI 802.11n HT40 (Band Edge @ 3m)

| WIFI                                 | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>(P/A) | Avg.<br>(H/V) |
|--------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|---------------|---------------|
| 802.11n<br>HT40<br>CH 142<br>5710MHz |   | 5444.77              | 54.09                     | -19.91                  | 74                                | 45.6                            | 31.68                         | 10.25                  | 33.44                      | 100                  | 77                      | P             | H             |
|                                      |   | 5470                 | 53.7                      | -14.5                   | 68.2                              | 45.07                           | 31.78                         | 10.28                  | 33.43                      | 100                  | 77                      | P             | H             |
|                                      |   | 5453.74              | 41.84                     | -12.16                  | 54                                | 33.3                            | 31.71                         | 10.26                  | 33.43                      | 100                  | 77                      | A             | H             |
|                                      | *   | 5710                 | 113.95                    | -                       | -                                 | 104.88                          | 32.02                         | 10.51                  | 33.46                      | 100                  | 77                      | P             | H             |
|                                      | *   | 5710                 | 103.12                    | -                       | -                                 | 94.05                           | 32.02                         | 10.51                  | 33.46                      | 100                  | 77                      | A             | H             |
|                                      |   | 5885.25              | 57.56                     | -10.64                  | 68.2                              | 48.03                           | 32.37                         | 10.64                  | 33.48                      | 100                  | 77                      | P             | H             |
|                                      |   | 5451.4               | 54.92                     | -19.08                  | 74                                | 46.38                           | 31.71                         | 10.26                  | 33.43                      | 112                  | 348                     | P             | V             |
|                                      |   | 5465.83              | 53.68                     | -14.52                  | 68.2                              | 45.08                           | 31.76                         | 10.27                  | 33.43                      | 112                  | 348                     | P             | V             |
|                                      |   | 5447.5               | 41.78                     | -12.22                  | 54                                | 33.28                           | 31.69                         | 10.25                  | 33.44                      | 112                  | 348                     | A             | V             |
|                                      | *   | 5710                 | 103.56                    | -                       | -                                 | 94.49                           | 32.02                         | 10.51                  | 33.46                      | 112                  | 348                     | P             | V             |
|                                      | *   | 5710                 | 93.58                     | -                       | -                                 | 84.51                           | 32.02                         | 10.51                  | 33.46                      | 112                  | 348                     | A             | V             |
|                                      |   | 5931.75              | 55.83                     | -12.37                  | 68.2                              | 46.11                           | 32.53                         | 10.68                  | 33.49                      | 112                  | 348                     | P             | V             |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |               |               |



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

| WIFI                                 | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--------------------------------------|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11n<br>HT40<br>CH 142<br>5710MHz |   | 11420                | 45.59                     | -28.41                  | 74                                | 51.1                            | 39.64                         | 16.43                  | 61.58                      | 100                  | 0                       | P                     | H             |
|                                      |   | 17130                | 55.11                     | -13.09                  | 68.2                              | 49.89                           | 40.53                         | 20.7                   | 56.01                      | 100                  | 0                       | P                     | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|                                      |   | 11420                | 46.26                     | -27.74                  | 74                                | 51.77                           | 39.64                         | 16.43                  | 61.58                      | 100                  | 0                       | P                     | V             |
|                                      |   | 17130                | 51.11                     | -17.09                  | 68.2                              | 45.89                           | 40.53                         | 20.7                   | 56.01                      | 100                  | 0                       | P                     | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|                                      |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                               | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Band 3 - Straddle Channel

## WIFI 802.11ac VHT80 (Band Edge @ 3m)

| WIFI                                   | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>(P/A) | Avg.<br>(H/V) |
|--|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|---------------|---------------|
| 802.11ac<br>VHT80<br>CH 138<br>5690MHz |   | 5449.84              | 54.41                     | -19.59                  | 74                                | 45.9                            | 31.7                          | 10.25                  | 33.44                      | 100                  | 59                      | P             | H             |
|  |   | 5467.39              | 53.98                     | -14.22                  | 68.2                              | 45.37                           | 31.77                         | 10.27                  | 33.43                      | 100                  | 59                      | P             | H             |
|  |   | 5459.59              | 41.89                     | -12.11                  | 54                                | 33.31                           | 31.74                         | 10.27                  | 33.43                      | 100                  | 59                      | A             | H             |
|  | *   | 5690                 | 111.42                    | -                       | -                                 | 102.45                          | 31.94                         | 10.49                  | 33.46                      | 100                  | 59                      | P             | H             |
|  | *   | 5690                 | 100.79                    | -                       | -                                 | 91.82                           | 31.94                         | 10.49                  | 33.46                      | 100                  | 59                      | A             | H             |
|  |   | 5857                 | 57.51                     | -10.69                  | 68.2                              | 48.06                           | 32.31                         | 10.62                  | 33.48                      | 100                  | 59                      | P             | H             |
|  |   | 5394.85              | 53.75                     | -20.25                  | 74                                | 45.51                           | 31.48                         | 10.2                   | 33.44                      | 103                  | 313                     | P             | V             |
|  |   | 5461.15              | 53.26                     | -14.94                  | 68.2                              | 44.68                           | 31.74                         | 10.27                  | 33.43                      | 103                  | 313                     | P             | V             |
|  |   | 5443.99              | 41.78                     | -12.22                  | 54                                | 33.29                           | 31.68                         | 10.25                  | 33.44                      | 103                  | 313                     | A             | V             |
|  | *   | 5690                 | 103.34                    | -                       | -                                 | 94.37                           | 31.94                         | 10.49                  | 33.46                      | 103                  | 313                     | P             | V             |
|  | *   | 5690                 | 92.96                     | -                       | -                                 | 83.99                           | 31.94                         | 10.49                  | 33.46                      | 103                  | 313                     | A             | V             |
|  |   | 5875.75              | 56.32                     | -11.88                  | 68.2                              | 46.81                           | 32.35                         | 10.64                  | 33.48                      | 103                  | 313                     | P             | V             |
| Remark                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |               |               |



## Band 3 - Straddle Channel

WIFI 802.11ac VHT80 (Harmonic @ 3m)

| WIFI                                   | Note  | Frequency<br>( MHz ) | Level<br>( dB $\mu$ V/m ) | Over<br>Limit<br>( dB ) | Limit<br>Line<br>( dB $\mu$ V/m ) | Read<br>Level<br>( dB $\mu$ V ) | Antenna<br>Factor<br>( dB/m ) | Path<br>Loss<br>( dB ) | Preamp<br>Factor<br>( dB ) | Ant<br>Pos<br>( cm ) | Table<br>Pos<br>( deg ) | Peak<br>Avg.<br>(P/A) | Pol.<br>(H/V) |
|--|---|----------------------|---------------------------|-------------------------|-----------------------------------|---------------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-----------------------|---------------|
| 802.11ac<br>VHT80<br>CH 138<br>5690MHz |   | 11380                | 45.51                     | -28.49                  | 74                                | 51.1                            | 39.58                         | 16.41                  | 61.58                      | 100                  | 0                       | P                     | H             |
|  |   | 17070                | 57.51                     | -10.69                  | 68.2                              | 52.52                           | 40.5                          | 20.64                  | 56.15                      | 100                  | 0                       | P                     | H             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | H             |
|  |   | 11380                | 46.99                     | -27.01                  | 74                                | 52.58                           | 39.58                         | 16.41                  | 61.58                      | 100                  | 0                       | P                     | V             |
|  |   | 17070                | 53.51                     | -14.69                  | 68.2                              | 48.52                           | 40.5                          | 20.64                  | 56.15                      | 100                  | 0                       | P                     | V             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
|  |   |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       | V             |
| Remark                                 | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |                      |                           |                         |                                   |                                 |                               |                        |                            |                      |                         |                       |               |



## Emission below 1GHz

## WIFI 802.11ac VHT80 (LF @ 3m)

| WIFI                    | Note   | Frequency  | Level | Over   | Limit | Read  | Antenna | Path | Preamp | Ant | Table | Peak | Pol. |  |
|-------------------------|--------|--|-------|--------|-------|-------|---------|------|--------|-----|-------|------|------|--|
|                         |        |  |       |        |       |       |         |      |        |     |       |      |      |  |
|                         |        |  |       |        |       |       |         |      |        |     |       |      |      |  |
| 802.11ac<br>VHT80<br>LF |        | 30.97  | 24.01 | -15.99 | 40    | 29.38 | 24.05   | 0.78 | 30.2   | -   | -     | P    | H    |  |
|                         |        | 185.2  | 29.55 | -13.95 | 43.5  | 43.16 | 14.78   | 1.95 | 30.34  | -   | -     | P    | H    |  |
|                         |        | 194.9  | 33.18 | -10.32 | 43.5  | 46.7  | 14.83   | 1.98 | 30.33  | -   | -     | P    | H    |  |
|                         |        | 238.55   | 31.31 | -14.69 | 46    | 42.4  | 17.08   | 2.08 | 30.25  | -   | -     | P    | H    |  |
|                         |        | 878.75   | 33.82 | -12.18 | 46    | 29.81 | 28.99   | 4.19 | 29.17  | -   | -     | P    | H    |  |
|                         |        | 951.5  | 36.1  | -9.9   | 46    | 30.02 | 30.63   | 4.44 | 28.99  | 100 | 0     | P    | H    |  |
|                         |        |  |       |        |       |       |         |      |        |     |       |      | H    |  |
|                         |        |  |       |        |       |       |         |      |        |     |       |      | H    |  |
|                         |        |  |       |        |       |       |         |      |        |     |       |      | H    |  |
|                         |        |  |       |        |       |       |         |      |        |     |       |      | H    |  |
|                         |        |  |       |        |       |       |         |      |        |     |       |      | H    |  |
|                         |        |  |       |        |       |       |         |      |        |     |       |      | V    |  |
|                         |        | 59.1   | 31.28 | -8.72  | 40    | 48.75 | 11.86   | 1.13 | 30.46  | 100 | 0     | P    | V    |  |
|                         |        | 157.07   | 29.41 | -14.09 | 43.5  | 41.39 | 16.59   | 1.8  | 30.37  | -   | -     | P    | V    |  |
|                         |        | 194.9  | 32.14 | -11.36 | 43.5  | 45.66 | 14.83   | 1.98 | 30.33  | -   | -     | P    | V    |  |
|                         |        | 361.74   | 29.49 | -16.51 | 46    | 36.31 | 20.64   | 2.58 | 30.04  | -   | -     | P    | V    |  |
|                         |        | 729.37   | 35.44 | -10.56 | 46    | 33.75 | 27.36   | 3.78 | 29.45  | -   | -     | P    | V    |  |
|                         |        | 955.38   | 35.42 | -10.58 | 46    | 29.17 | 30.77   | 4.46 | 28.98  | -   | -     | P    | V    |  |
|                         |        |  |       |        |       |       |         |      |        |     |       |      | V    |  |
|                         |        |  |       |        |       |       |         |      |        |     |       |      | V    |  |
|                         |        |  |       |        |       |       |         |      |        |     |       |      | V    |  |
|                         |        |  |       |        |       |       |         |      |        |     |       |      | V    |  |
|                         |        |  |       |        |       |       |         |      |        |     |       |      | V    |  |
|                         | Remark | 1. No other spurious found.<br>2. All results are PASS against limit line. |       |        |       |       |         |      |        |     |       |      |      |  |

**Note symbol**

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



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

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

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dB $\mu$ V/m) = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dB $\mu$ V) - Preamp Factor(dB)
3. Over Limit(dB) = Level(dB $\mu$ V/m) – Limit Line(dB $\mu$ V/m)

#### For Peak Limit @ 2390MHz:

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

#### For Average Limit @ 2390MHz:

1. Level(dB $\mu$ V/m)  
 $= \text{Antenna Factor(dB/m)} + \text{Path Loss(dB)} + \text{Read Level(dB $\mu$ V)} - \text{Preamp Factor(dB)}$   
 $= 32.22(\text{dB/m}) + 4.58(\text{dB}) + 42.6(\text{dB $\mu$ V}) - 35.86 (\text{dB})$   
 $= 43.54 (\text{dB $\mu$ V/m})$
2. Over Limit(dB) = Level(dB $\mu$ V/m) – Limit Line(dB $\mu$ V/m)  
 $= 43.54(\text{dB $\mu$ V/m}) - 54(\text{dB $\mu$ V/m})$   
 $= -10.46(\text{dB})$

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



## Appendix C. Radiated Spurious Emission

|                        |  |                            |         |
|------------------------|--|----------------------------|---------|
| <b>Test Engineer :</b> | Jack Cheng , Lance Chiang, and Chuan Chu | <b>Temperature :</b>       | 22~24°C |
|                        |  | <b>Relative Humidity :</b> | 56~60%  |

### Note symbol

|    |                              |
|----|------------------------------|
| -L | <b>Low channel location</b>  |
| -R | <b>High channel location</b> |