# FCC RF Test Report

| | | |
|---|---|---|
| APPLICANT | : | Motorola Mobility, LLC |
| EQUIPMENT | : | Mobile Cellular Phone |
| BRAND NAME | : | Motorola |
| MODEL NAME | : | 6574 |
| FCC ID | : | IHDT56VB2 |
| STANDARD | : | FCC Part 15 Subpart E §15.407 |
| CLASSIFICATION | : | (NII) Unlicensed National Information Infrastructure |

**The product was received on Apr. 01, 2016 and testing was completed on Apr. 29, 2016. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.**

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

**Reviewed by: Joseph Lin / Supervisor**

**Approved by: Jones Tsai / Manager**

Testing Laboratory 1190

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# REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION | ISSUED DATE |
|---|---|---|---|
| FR640145D | Rev. 01 | Initial issue of report | May 11, 2016 |
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# SUMMARY OF TEST RESULT

| Report Section | FCC Rule | Description | Limit | Result | Remark |
|---|---|---|---|---|---|
| 3.1 | 2.1049<br>15.403(i) | 26dB & 99% Bandwidth | - | Pass | - |
| 3.2 | 15.407(a) | Maximum Conducted Output Power | ≤ 24 dBm (depend on band) | Pass | - |
| 3.3 | 15.407(a) | Power Spectral Density | ≤ 11 dBm (depend on band) | Pass | - |
| 3.4 | 15.407(b) | Unwanted Emissions | ≤ -17, -27 dBm (depend on band)&15.209(a) | Pass | Under limit 0.20 dB at 5148.800 MHz |
| 3.5 | 15.207 | AC Conducted Emission | 15.207(a) | Pass | Under limit 12.60 dB at 0.630 MHz |
| 3.6 | 15.407(g) | Frequency Stability | Within Operation Band | Pass | - |
| 3.7 | 15.407(c) | Automatically Discontinue Transmission | Discontinue Transmission | Pass | - |
| 3.8 | 15.203 &<br>15.407(a) | Antenna Requirement | N/A | Pass | - |

# 1 General Description

## 1.1 Applicant

**Motorola Mobility, LLC**
222 W Merchandise Mart Plaza, Suite 1800, Chicago, IL 60654, United States

## 1.2 Manufacturer

**Motorola Mobility, LLC**
222 W Merchandise Mart Plaza, Suite 1800, Chicago, IL 60654, United States

## 1.3 Product Feature of Equipment Under Test

| Product Feature | |
|---|---|
| **Equipment** | Mobile Cellular Phone |
| **Brand Name** | Motorola |
| **Model Name** | 6574 |
| **FCC ID** | IHDT56VB2 |
| **IMEI Code** | 354108070054047 (for Radiated Spurious Emission)<br>354108070053932 (for AC Conducted Emission) |
| **EUT supports Radios application** | CDMA/EV-DO/GSM/EGPRS/WCDMA/HSPA/LTE/FM<br>2.4GHz WLAN 11b/g/n HT20<br>WLAN 11ac VHT20<br>5GHz WLAN 11a/n HT20/HT40<br>WLAN 11ac VHT20/VHT40/VHT80<br>Bluetooth v3.0 EDR<br>Bluetooth v4.2 LE |
| **HW Version** | DVT2 |
| **EUT Stage** | Identical Prototype |

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

| Accessory List | |
|---|---|
| **AC Adapter** | Brand Name : Motorola |
| | Model Name : SPN5912A |

## 1.4 Product Specification of Equipment Under Test

| Standards-related Product Specification | |
|---|---|
| **Tx/Rx Channel Frequency Range** | 5180 MHz ~ 5240 MHz<br>5260 MHz ~ 5320 MHz<br>5500 MHz ~ 5700 MHz |
| **Maximum Output Power** | **<5180 MHz ~ 5240 MHz>**<br>**SISO <Ant. 1>**<br>802.11a : 16.65 dBm / 0.0462 W<br>802.11n HT20 : 16.46 dBm / 0.0443 W<br>802.11n HT40 : 14.76 dBm / 0.0299 W<br>802.11ac VHT20: 16.43 dBm / 0.0440 W<br>802.11ac VHT40: 14.82 dBm / 0.0303 W<br>802.11ac VHT80: 13.25 dBm / 0.0211 W<br>**SISO <Ant. 2>**<br>802.11a : 16.46 dBm / 0.0443 W<br>802.11n HT20 : 16.22 dBm / 0.0419 W<br>802.11n HT40 : 14.46 dBm / 0.0279 W<br>802.11ac VHT20: 16.32 dBm / 0.0429 W<br>802.11ac VHT40: 14.70 dBm / 0.0295 W<br>802.11ac VHT80: 13.19 dBm / 0.0208 W<br>**MIMO <Ant. 1 + 2>**<br>802.11a : 18.85 dBm / 0.0767 W<br>802.11n HT20 : 18.74 dBm / 0.0748 W<br>802.11n HT40 : 17.12 dBm / 0.0515 W<br>802.11ac VHT20: 18.99 dBm / 0.0793 W<br>802.11ac VHT40: 17.04 dBm / 0.0506 W<br>802.11ac VHT80: 15.82 dBm / 0.0382 W<br>**<5260 MHz ~ 5320 MHz>**<br>**SISO <Ant. 1>**<br>802.11a : 16.79 dBm / 0.0478 W<br>802.11n HT20 : 16.54 dBm / 0.0451 W<br>802.11n HT40 : 14.90 dBm / 0.0309 W<br>802.11ac VHT20: 16.46 dBm / 0.0443 W<br>802.11ac VHT40: 14.94 dBm / 0.0312 W<br>802.11ac VHT80: 12.52 dBm / 0.0179 W<br>**SISO <Ant. 2>**<br>802.11a : 16.47 dBm / 0.0444 W<br>802.11n HT20 : 16.32 dBm / 0.0429 W<br>802.11n HT40 : 14.50 dBm / 0.0282 W<br>802.11ac VHT20: 16.31 dBm / 0.0428 W<br>802.11ac VHT40: 14.71 dBm / 0.0296 W<br>802.11ac VHT80: 12.21 dBm / 0.0166 W<br>**MIMO <Ant. 1 + 2>**<br>802.11a : 18.94 dBm / 0.0783 W<br>802.11n HT20 : 18.73 dBm / 0.0746 W<br>802.11n HT40 : 17.23 dBm / 0.0528 W<br>802.11ac VHT20: 18.75 dBm / 0.0750 W<br>802.11ac VHT40: 17.18 dBm / 0.0522 W<br>802.11ac VHT80: 15.18 dBm / 0.0330 W |

<table>
<tr><th colspan="2">Product Specification subjective to this standard</th></tr>
<tr><td>Maximum Output Power</td><td><5500 MHz ~ 5700 MHz><br>SISO <Ant. 1><br>802.11a : 16.77 dBm / 0.0475 W<br>802.11n HT20 : 16.62 dBm / 0.0459 W<br>802.11n HT40 : 14.70 dBm / 0.0295 W<br>802.11ac VHT20: 16.59 dBm / 0.0456 W<br>802.11ac VHT40: 14.74 dBm / 0.0298 W<br>802.11ac VHT80: 14.65 dBm / 0.0292 W<br>SISO <Ant. 2><br>802.11a : 16.64 dBm / 0.0461 W<br>802.11n HT20 : 16.39 dBm / 0.0436 W<br>802.11n HT40 : 14.73 dBm / 0.0297 W<br>802.11ac VHT20: 16.40 dBm / 0.0437 W<br>802.11ac VHT40: 14.77 dBm / 0.0300 W<br>802.11ac VHT80: 14.52 dBm / 0.0283 W<br>MIMO <Ant. 1 + 2><br>802.11a : 19.15 dBm / 0.0822 W<br>802.11n HT20 : 19.00 dBm / 0.0794 W<br>802.11n HT40 : 17.09 dBm / 0.0512 W<br>802.11ac VHT20: 18.97 dBm / 0.0789 W<br>802.11ac VHT40: 17.06 dBm / 0.0508 W<br>802.11ac VHT80: 17.21 dBm / 0.0526 W</td></tr>
<tr><td>99% Occupied Bandwidth</td><td>802.11a : 17.75 MHz<br>802.11n HT20 : 18.45 MHz<br>802.11n HT40 : 36.40 MHz<br>802.11ac VHT20 : 18.65 MHz<br>802.11ac VHT40 : 36.30 MHz<br>802.11ac VHT80 : 75.60 MHz</td></tr>
<tr><td>Type of Modulation</td><td>802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)<br>802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)</td></tr>
<tr><td>Antenna Type</td><td>Fixed Internal Antenna type<br>(The antenna peak gain of EUT is less than 6 dBi)</td></tr>
<tr><td>Antenna Function Description</td><td><table><tr><td></td><td>Ant.1</td><td>Ant.2</td></tr><tr><td>802.11 a/a/n/ac SISO</td><td>V</td><td>V</td></tr><tr><td>802.11 a/n/ac MIMO</td><td>V</td><td>V</td></tr></table></td></tr>
</table>

## 1.5 Modification of EUT

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

## 1.6 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1022 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

| | | |
|---|---|---|
| **Test Site** | SPORTON INTERNATIONAL INC. | |
| **Test Site Location** | No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park,<br>Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.<br>TEL: +886-3-327-3456<br>FAX: +886-3-328-4978 | |
| **Test Site No.** | **Sporton Site No.** | |
| | TH02-HY | CO05-HY |

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

| | |
|---|---|
| **Test Site** | SPORTON INTERNATIONAL INC. |
| **Test Site Location** | 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 |
| **Test Site No.** | **Sporton Site No.** |
| | 03CH11-HY |

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

## 1.7 Applicable Standards

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

- FCC Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r02
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- FCC KDB 644545 D03 Guidance for IEEE 802 11ac New Rules v01
- 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

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: conducted emission (150 kHz to 30 MHz) and radiated 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 (Z plane) were recorded in this report.

The final configuration from all the combinations and the worst-case data rates were investigated by measuring the maximum power across all the data rates and modulation modes under section 2.2.

Based on the worst configuration found above, the RF power setting is set individually to meet FCC compliance limit for the final conducted and radiated tests shown in section 2.3.

## 2.1 Carrier Frequency and Channel

| Frequency Band | Channel | Freq. (MHz) | Channel | Freq. (MHz) |
|---|---|---|---|---|
| 5150-5250 MHz Band 1 (U-NII-1) | 36 | 5180 | 44 | 5220 |
| | **38** | **5190** | **46** | **5230** |
| | 40 | 5200 | 48 | 5240 |
| | 42 | 5210 | | |

| Frequency Band | Channel | Freq. (MHz) | Channel | Freq. (MHz) |
|---|---|---|---|---|
| 5250-5350 MHz Band 2 (U-NII-2A) | 52 | 5260 | 60 | 5300 |
| | **54** | **5270** | **62** | **5310** |
| | 56 | 5280 | 64 | 5320 |
| | 58 | 5290 | | |

| Frequency Band | Channel | Freq. (MHz) | Channel | Freq. (MHz) |
|---|---|---|---|---|
| 5470-5725 MHz Band 3 (U-NII-2C) | 100 | 5500 | 120 | 5600 |
| | **102** | **5510** | 122 | 5610 |
| | 104 | 5520 | 124 | 5620 |
| | 108 | 5540 | **126** | **5630** |
| | **110** | **5550** | 128 | 5640 |
| | 112 | 5560 | 132 | 5660 |
| | 114 | 5570 | **134** | **5670** |
| | 116 | 5580 | 136 | 5680 |
| | **118** | **5590** | 140 | 5700 |

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

**Note:** The above Frequency and Channel in boldface were 802.11n HT40.

## 2.2 Pre-Scanned RF Power

Preliminary tests were performed in different data rate and data rate associated with the highest power were chosen for full test in the following tables.

**SISO <Ant. 1>**

| Channel | Frequency | 5GHz 802.11a Average Power (dBm) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Data Rate | | | | | | | |
| | | 6 Mbps | 9 Mbps | 12 Mbps | 18 Mbps | 24 Mbps | 36 Mbps | 48 Mbps | 54 Mbps |
| CH 36 | 5180 MHz | 16.57 | 16.20 | 16.21 | 15.80 | 15.46 | 15.29 | 14.50 | 14.51 |
| CH 44 | 5220 MHz | 16.50 | 16.01 | 16.05 | 15.77 | 15.23 | 15.05 | 14.33 | 14.35 |
| CH 48 | 5240 MHz | 16.65 | 16.25 | 16.39 | 15.90 | 15.50 | 15.42 | 14.58 | 14.58 |
| CH 52 | 5260 MHz | **16.79** | 16.31 | 16.40 | 15.90 | 15.53 | 15.43 | 14.56 | 14.65 |
| CH 60 | 5300 MHz | 16.55 | 16.16 | 16.15 | 15.79 | 15.34 | 15.26 | 14.39 | 14.49 |
| CH 64 | 5320 MHz | 16.45 | 16.42 | 16.43 | 15.88 | 15.29 | 15.33 | 14.56 | 14.51 |
| CH 100 | 5500 MHz | 16.77 | 16.54 | 16.62 | 16.14 | 15.62 | 15.71 | 15.10 | 14.60 |
| CH 116 | 5580 MHz | 16.74 | 16.50 | 16.53 | 16.11 | 15.62 | 15.68 | 15.08 | 14.58 |
| CH 140 | 5700 MHz | 15.97 | 15.93 | 15.95 | 15.68 | 15.30 | 15.29 | 14.67 | 14.02 |

| Channel | Frequency | 5GHz 802.11n HT20 Average Power (dBm) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Data Rate | | | | | | | |
| | | MCS0 | MCS1 | MCS2 | MCS3 | MCS4 | MCS5 | MCS6 | MCS7 |
| CH 36 | 5180 MHz | 16.37 | 16.20 | 16.35 | 15.58 | 15.55 | 14.98 | 14.03 | 13.99 |
| CH 44 | 5220 MHz | 16.29 | 16.02 | 16.16 | 15.47 | 15.41 | 14.87 | 13.89 | 13.93 |
| CH 48 | 5240 MHz | 16.46 | 16.22 | 16.32 | 15.60 | 15.58 | 15.02 | 14.05 | 14.10 |
| CH 52 | 5260 MHz | 16.54 | 16.28 | 16.38 | 15.66 | 15.61 | 15.13 | 14.13 | 14.14 |
| CH 60 | 5300 MHz | 16.26 | 15.98 | 16.12 | 15.41 | 15.34 | 14.82 | 13.84 | 13.80 |
| CH 64 | 5320 MHz | 16.25 | 16.10 | 16.22 | 15.45 | 15.34 | 14.85 | 13.62 | 13.53 |
| CH 100 | 5500 MHz | 16.56 | 16.53 | 16.55 | 15.75 | 15.77 | 15.12 | 13.71 | 13.75 |
| CH 116 | 5580 MHz | **16.62** | 16.60 | 16.60 | 15.79 | 15.81 | 15.22 | 13.74 | 13.76 |
| CH 140 | 5700 MHz | 15.95 | 15.94 | 15.93 | 15.32 | 15.35 | 14.82 | 13.39 | 13.19 |

| Channel | Frequency | 5GHz 802.11n HT40 Average Power (dBm) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Data Rate | | | | | | | |
| | | MCS0 | MCS1 | MCS2 | MCS3 | MCS4 | MCS5 | MCS6 | MCS7 |
| CH 38 | 5190MHz | 13.56 | 13.52 | 13.55 | 13.46 | 13.46 | 13.51 | 13.54 | 13.00 |
| CH 46 | 5230MHz | 14.76 | 14.69 | 14.73 | 13.78 | 13.63 | 13.66 | 13.72 | 13.04 |
| CH 54 | 5270MHz | **14.90** | 14.87 | 14.86 | 13.85 | 13.99 | 13.93 | 14.03 | 13.26 |
| CH 62 | 5310MHz | 14.23 | 14.20 | 14.17 | 13.93 | 13.71 | 13.69 | 14.08 | 13.20 |
| CH 102 | 5510MHz | 14.00 | 13.94 | 13.96 | 13.91 | 13.97 | 13.94 | 13.85 | 13.09 |
| CH 110 | 5550MHz | 14.70 | 14.63 | 14.66 | 13.77 | 13.81 | 13.97 | 13.69 | 12.96 |
| CH 134 | 5670MHz | 14.66 | 14.62 | 14.61 | 13.74 | 13.77 | 13.76 | 13.26 | 12.38 |

| Channel | Frequency | 5GHz 802.11ac VHT20 Average Power (dBm) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Data Rate | | | | | | | | |
| | | MCS0 | MCS1 | MCS2 | MCS3 | MCS4 | MCS5 | MCS6 | MCS7 | MCS8 |
| CH 36 | 5180 MHz | 16.33 | 16.07 | 16.10 | 15.24 | 15.22 | 14.42 | 13.57 | 12.74 | 11.86 |
| CH 44 | 5220 MHz | 16.22 | 15.97 | 15.81 | 14.96 | 14.78 | 13.95 | 13.25 | 12.34 | 11.38 |
| CH 48 | 5240 MHz | 16.43 | 16.05 | 16.02 | 14.91 | 14.89 | 14.11 | 13.23 | 12.28 | 11.62 |
| CH 52 | 5260 MHz | 16.46 | 16.25 | 16.40 | 15.45 | 15.57 | 14.73 | 13.69 | 12.51 | 9.72 |
| CH 60 | 5300 MHz | 16.16 | 15.81 | 15.92 | 14.90 | 15.04 | 14.31 | 13.14 | 12.20 | 11.25 |
| CH 64 | 5320 MHz | 16.22 | 15.87 | 15.94 | 15.13 | 15.06 | 14.27 | 13.19 | 12.16 | 11.31 |
| CH 100 | 5500 MHz | **16.59** | 16.34 | 16.49 | 15.43 | 15.42 | 14.78 | 13.22 | 12.57 | 11.51 |
| CH 116 | 5580 MHz | 16.46 | 16.08 | 16.16 | 15.34 | 15.40 | 14.55 | 13.52 | 12.77 | 10.55 |
| CH 140 | 5700 MHz | 15.87 | 15.78 | 15.86 | 15.00 | 15.07 | 14.25 | 12.83 | 11.93 | 10.03 |

| Channel | Frequency | 5GHz 802.11ac VHT40 Average Power (dBm) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Data Rate | | | | | | | | | |
| | | MCS0 | MCS1 | MCS2 | MCS3 | MCS4 | MCS5 | MCS6 | MCS7 | MCS8 | MCS9 |
| CH 38 | 5190MHz | 13.60 | 13.57 | 13.54 | 13.53 | 13.56 | 13.56 | 13.58 | 12.91 | 10.60 | 8.82 |
| CH 46 | 5230MHz | 14.82 | 14.79 | 14.69 | 13.74 | 13.77 | 13.83 | 13.66 | 12.84 | 9.27 | 7.48 |
| CH 54 | 5270MHz | **14.94** | 14.89 | 14.93 | 13.84 | 14.12 | 14.16 | 13.93 | 12.98 | 9.60 | 7.39 |
| CH 62 | 5310MHz | 14.25 | 14.15 | 14.21 | 13.65 | 13.78 | 13.82 | 13.53 | 12.70 | 8.91 | 6.94 |
| CH 102 | 5510MHz | 13.98 | 13.89 | 13.95 | 13.79 | 13.66 | 13.89 | 13.46 | 12.40 | 9.41 | 7.50 |
| CH 110 | 5550MHz | 14.74 | 14.69 | 14.65 | 13.81 | 13.72 | 13.87 | 13.37 | 12.30 | 9.48 | 7.85 |
| CH 134 | 5670MHz | 14.56 | 14.47 | 14.54 | 13.72 | 13.79 | 13.81 | 13.30 | 12.43 | 9.57 | 7.66 |

| Channel | Frequency | 5GHz 802.11ac VHT80 Average Power (dBm) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Data Rate | | | | | | | | | |
| | | MCS0 | MCS1 | MCS2 | MCS3 | MCS4 | MCS5 | MCS6 | MCS7 | MCS8 | MCS9 |
| CH 042 | 5210MHz | 13.25 | 13.22 | 13.20 | 13.17 | 13.21 | 13.20 | 13.23 | 12.98 | 8.94 | 8.34 |
| CH 058 | 5290MHz | 12.52 | 12.48 | 12.50 | 12.46 | 12.46 | 12.48 | 12.51 | 12.50 | 9.13 | 8.23 |
| CH 106 | 5530MHz | 9.34 | 9.24 | 9.06 | 8.88 | 8.94 | 8.97 | 8.92 | 8.79 | 9.18 | 7.83 |
| CH 122 | 5610MHz | **14.65** | 14.60 | 14.50 | 14.64 | 14.63 | 14.33 | 13.82 | 12.78 | 9.20 | 8.34 |

**SISO <Ant. 2>**

| Channel | Frequency | 5GHz 802.11a Average Power (dBm) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Data Rate | | | | | | | |
| | | 6 Mbps | 9 Mbps | 12 Mbps | 18 Mbps | 24 Mbps | 36 Mbps | 48 Mbps | 54 Mbps |
| CH 36 | 5180 MHz | 16.42 | 16.18 | 16.19 | 15.84 | 15.32 | 15.32 | 14.64 | 14.70 |
| CH 44 | 5220 MHz | 16.31 | 15.98 | 16.02 | 15.72 | 15.30 | 15.27 | 14.64 | 14.71 |
| CH 48 | 5240 MHz | 16.46 | 16.23 | 16.29 | 15.93 | 15.45 | 15.37 | 14.67 | 14.79 |
| CH 52 | 5260 MHz | 16.47 | 16.13 | 16.11 | 15.82 | 15.22 | 15.34 | 14.58 | 14.58 |
| CH 60 | 5300 MHz | 16.30 | 16.08 | 15.94 | 15.79 | 15.18 | 15.27 | 14.69 | 14.59 |
| CH 64 | 5320 MHz | 16.22 | 15.99 | 15.91 | 15.64 | 15.11 | 15.16 | 14.58 | 14.67 |
| CH 100 | 5500 MHz | **16.64** | 16.58 | 16.63 | 16.10 | 15.52 | 15.61 | 14.99 | 15.01 |
| CH 116 | 5580 MHz | 16.59 | 16.58 | 16.56 | 16.13 | 15.47 | 15.43 | 14.96 | 14.99 |
| CH 140 | 5700 MHz | 15.62 | 15.59 | 15.61 | 15.16 | 14.78 | 14.80 | 14.06 | 13.95 |

| Channel | Frequency | 5GHz 802.11n HT20 Average Power (dBm) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Data Rate | | | | | | | |
| | | MCS0 | MCS1 | MCS2 | MCS3 | MCS4 | MCS5 | MCS6 | MCS7 |
| CH 36 | 5180 MHz | 16.14 | 16.03 | 16.12 | 15.60 | 15.59 | 14.89 | 14.46 | 14.28 |
| CH 44 | 5220 MHz | 16.14 | 16.07 | 16.01 | 15.58 | 15.64 | 14.97 | 14.50 | 14.38 |
| CH 48 | 5240 MHz | 16.22 | 16.17 | 16.19 | 15.62 | 15.66 | 14.92 | 14.55 | 14.39 |
| CH 52 | 5260 MHz | 16.32 | 16.21 | 16.21 | 15.73 | 15.69 | 14.94 | 14.48 | 14.46 |
| CH 60 | 5300 MHz | 16.03 | 15.92 | 15.82 | 15.41 | 15.31 | 14.66 | 14.26 | 14.21 |
| CH 64 | 5320 MHz | 15.98 | 15.82 | 15.97 | 15.35 | 15.27 | 14.57 | 14.20 | 14.07 |
| CH 100 | 5500 MHz | 16.38 | 16.21 | 16.36 | 15.73 | 15.64 | 15.07 | 14.50 | 14.24 |
| CH 116 | 5580 MHz | **16.39** | 16.22 | 16.35 | 15.77 | 15.66 | 15.21 | 14.54 | 14.27 |
| CH 140 | 5700 MHz | 15.40 | 15.37 | 15.38 | 14.62 | 14.76 | 14.03 | 13.30 | 13.22 |

| Channel | Frequency | 5GHz 802.11n HT40 Average Power (dBm) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Data Rate | | | | | | | |
| | | MCS0 | MCS1 | MCS2 | MCS3 | MCS4 | MCS5 | MCS6 | MCS7 |
| CH 38 | 5190MHz | 13.76 | 13.54 | 13.52 | 13.50 | 13.47 | 13.41 | 13.72 | 13.68 |
| CH 46 | 5230MHz | 14.46 | 14.42 | 14.39 | 13.47 | 13.66 | 13.49 | 14.11 | 13.31 |
| CH 54 | 5270MHz | 14.50 | 14.43 | 14.40 | 13.37 | 13.60 | 13.53 | 13.94 | 13.03 |
| CH 62 | 5310MHz | 14.17 | 14.12 | 14.00 | 13.36 | 13.55 | 13.44 | 13.93 | 13.00 |
| CH 102 | 5510MHz | 13.59 | 13.54 | 13.57 | 13.57 | 13.50 | 13.55 | 13.58 | 13.09 |
| CH 110 | 5550MHz | **14.73** | 14.66 | 14.27 | 13.30 | 13.77 | 13.73 | 13.85 | 12.90 |
| CH 134 | 5670MHz | 14.09 | 14.07 | 14.08 | 13.16 | 13.36 | 13.11 | 13.35 | 12.43 |

| Channel | Frequency | 5GHz 802.11ac VHT20 Average Power (dBm) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Data Rate | | | | | | | | |
| | | MCS0 | MCS1 | MCS2 | MCS3 | MCS4 | MCS5 | MCS6 | MCS7 | MCS8 |
| CH 36 | 5180 MHz | 16.22 | 15.88 | 15.97 | 15.19 | 15.27 | 14.52 | 13.80 | 12.89 | 12.06 |
| CH 44 | 5220 MHz | 16.00 | 15.79 | 15.76 | 15.15 | 14.99 | 14.30 | 13.69 | 12.76 | 11.87 |
| CH 48 | 5240 MHz | 16.32 | 16.02 | 16.16 | 15.23 | 15.23 | 14.39 | 13.82 | 12.80 | 11.81 |
| CH 52 | 5260 MHz | 16.31 | 16.11 | 16.06 | 15.14 | 15.26 | 14.33 | 13.86 | 12.90 | 12.00 |
| CH 60 | 5300 MHz | 16.11 | 15.75 | 15.96 | 15.03 | 15.03 | 14.23 | 13.63 | 12.71 | 12.02 |
| CH 64 | 5320 MHz | 16.07 | 15.82 | 15.95 | 15.01 | 15.11 | 14.46 | 13.74 | 12.68 | 11.85 |
| CH 100 | 5500 MHz | **16.40** | 16.02 | 16.17 | 15.39 | 15.42 | 14.77 | 13.83 | 12.88 | 12.07 |
| CH 116 | 5580 MHz | 16.35 | 16.19 | 16.21 | 15.38 | 15.48 | 14.56 | 13.74 | 12.74 | 11.78 |
| CH 140 | 5700 MHz | 15.76 | 15.65 | 15.70 | 14.94 | 14.95 | 14.14 | 13.30 | 12.23 | 11.35 |

| Channel | Frequency | 5GHz 802.11ac VHT40 Average Power (dBm) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Data Rate | | | | | | | | | |
| | | MCS0 | MCS1 | MCS2 | MCS3 | MCS4 | MCS5 | MCS6 | MCS7 | MCS8 | MCS9 |
| CH 38 | 5190MHz | 13.77 | 13.66 | 13.72 | 13.57 | 13.67 | 13.69 | 13.72 | 13.00 | 11.80 | 9.85 |
| CH 46 | 5230MHz | 14.70 | 14.68 | 14.66 | 13.74 | 13.92 | 13.87 | 14.03 | 13.11 | 11.78 | 9.79 |
| CH 54 | 5270MHz | 14.71 | 14.65 | 14.61 | 13.78 | 13.77 | 13.53 | 14.04 | 13.23 | 11.13 | 9.35 |
| CH 62 | 5310MHz | 13.90 | 13.88 | 13.86 | 13.59 | 13.58 | 13.60 | 13.78 | 13.14 | 11.09 | 9.24 |
| CH 102 | 5510MHz | 13.68 | 13.59 | 13.56 | 13.65 | 13.57 | 13.54 | 13.63 | 12.68 | 11.02 | 9.15 |
| CH 110 | 5550MHz | **14.77** | 14.75 | 14.73 | 13.53 | 13.71 | 13.39 | 14.03 | 13.04 | 10.90 | 9.07 |
| CH 134 | 5670MHz | 14.27 | 14.24 | 14.26 | 13.36 | 13.43 | 13.48 | 13.35 | 12.32 | 10.59 | 7.99 |

| Channel | Frequency | 5GHz 802.11ac VHT80 Average Power (dBm) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Data Rate | | | | | | | | | |
| | | MCS0 | MCS1 | MCS2 | MCS3 | MCS4 | MCS5 | MCS6 | MCS7 | MCS8 | MCS9 |
| CH 042 | 5210MHz | 13.19 | 13.05 | 13.13 | 13.03 | 13.14 | 13.08 | 13.17 | 12.88 | 10.43 | 9.46 |
| CH 058 | 5290MHz | 12.21 | 12.08 | 12.12 | 12.06 | 12.11 | 11.98 | 12.18 | 12.12 | 9.93 | 9.11 |
| CH 106 | 5530MHz | 9.63 | 9.51 | 9.59 | 9.60 | 9.61 | 9.54 | 9.57 | 9.61 | 9.61 | 8.84 |
| CH 122 | 5610MHz | **14.52** | 14.50 | 14.49 | 14.51 | 14.46 | 13.61 | 13.60 | 12.62 | 9.57 | 8.66 |

**MIMO <Ant. 1+2>**

| Channel | Frequency | 5GHz 802.11a Average Power (dBm) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Data Rate | | | | | | | |
| | | 6 Mbps | 9 Mbps | 12 Mbps | 18 Mbps | 24 Mbps | 36 Mbps | 48 Mbps | 54 Mbps |
| CH 36 | 5180 MHz | 18.71 | 18.55 | 18.62 | 18.26 | 17.76 | 18.04 | 17.25 | 17.38 |
| CH 44 | 5220 MHz | 18.82 | 18.60 | 18.67 | 18.29 | 17.83 | 18.02 | 17.35 | 17.46 |
| CH 48 | 5240 MHz | 18.85 | 18.70 | 18.78 | 18.35 | 17.87 | 18.02 | 17.31 | 17.51 |
| CH 52 | 5260 MHz | 18.94 | 18.70 | 18.76 | 18.39 | 17.89 | 18.09 | 17.35 | 17.53 |
| CH 60 | 5300 MHz | 18.68 | 18.43 | 18.57 | 18.03 | 17.90 | 18.28 | 17.10 | 17.15 |
| CH 64 | 5320 MHz | 18.66 | 18.39 | 18.52 | 18.02 | 17.86 | 17.74 | 17.02 | 17.12 |
| CH 100 | 5500 MHz | **19.15** | 18.91 | 18.93 | 18.58 | 18.07 | 18.25 | 17.52 | 17.69 |
| CH 116 | 5580 MHz | 19.08 | 18.84 | 18.89 | 18.52 | 18.01 | 18.10 | 17.95 | 17.59 |
| CH 140 | 5700 MHz | 18.40 | 18.33 | 18.37 | 17.87 | 17.30 | 17.38 | 16.88 | 16.63 |

| Channel | Frequency | 5GHz 802.11n HT20 Average Power (dBm) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Data Rate | | | | | | | |
| | | MCS0 | MCS1 | MCS2 | MCS3 | MCS4 | MCS5 | MCS6 | MCS7 |
| CH 36 | 5180 MHz | 18.68 | 18.67 | 18.63 | 17.95 | 18.08 | 17.33 | 16.93 | 17.00 |
| CH 44 | 5220 MHz | 18.60 | 18.57 | 18.49 | 17.85 | 18.00 | 17.23 | 16.80 | 16.86 |
| CH 48 | 5240 MHz | 18.74 | 18.72 | 18.65 | 17.98 | 18.08 | 17.44 | 16.94 | 17.07 |
| CH 52 | 5260 MHz | 18.73 | 18.66 | 18.61 | 17.94 | 18.10 | 17.35 | 16.81 | 17.02 |
| CH 60 | 5300 MHz | 18.48 | 18.43 | 17.47 | 17.68 | 17.93 | 17.19 | 16.57 | 16.49 |
| CH 64 | 5320 MHz | 18.42 | 18.40 | 18.40 | 17.69 | 17.84 | 17.07 | 16.42 | 16.29 |
| CH 100 | 5500 MHz | **19.00** | 18.79 | 18.77 | 18.08 | 18.30 | 17.51 | 17.14 | 17.18 |
| CH 116 | 5580 MHz | 18.84 | 18.71 | 18.66 | 18.00 | 18.21 | 17.86 | 16.90 | 16.83 |
| CH 140 | 5700 MHz | 18.18 | 18.06 | 17.95 | 17.39 | 17.50 | 17.21 | 16.36 | 16.25 |

| Channel | Frequency | 5GHz 802.11n HT40 Average Power (dBm) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Data Rate | | | | | | | |
| | | MCS0 | MCS1 | MCS2 | MCS3 | MCS4 | MCS5 | MCS6 | MCS7 |
| CH 38 | 5190MHz | 16.51 | 16.47 | 16.38 | 16.48 | 16.43 | 16.48 | 16.48 | 16.22 |
| CH 46 | 5230MHz | 17.12 | 17.09 | 17.09 | 16.41 | 16.60 | 16.54 | 16.92 | 16.38 |
| CH 54 | 5270MHz | **17.23** | 17.20 | 17.18 | 16.53 | 16.65 | 16.65 | 17.07 | 16.11 |
| CH 62 | 5310MHz | 16.83 | 16.80 | 16.66 | 16.38 | 16.48 | 16.47 | 16.76 | 16.13 |
| CH 102 | 5510MHz | 16.64 | 16.62 | 16.55 | 16.55 | 16.63 | 16.61 | 16.59 | 16.19 |
| CH 110 | 5550MHz | 17.09 | 17.07 | 16.67 | 16.29 | 16.45 | 16.53 | 16.55 | 15.82 |
| CH 134 | 5670MHz | 16.96 | 16.93 | 16.90 | 16.22 | 16.28 | 16.40 | 16.26 | 15.36 |

| Channel | Frequency | 5GHz 802.11ac VHT20 Average Power (dBm) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Data Rate | | | | | | | | |
| | | MCS0 | MCS1 | MCS2 | MCS3 | MCS4 | MCS5 | MCS6 | MCS7 | MCS8 |
| CH 36 | 5180 MHz | 18.73 | 18.63 | 18.70 | 18.01 | 17.94 | 18.02 | 16.93 | 15.99 | 15.53 |
| CH 44 | 5220 MHz | 18.66 | 18.47 | 18.66 | 18.08 | 17.98 | 17.65 | 16.80 | 15.67 | 14.77 |
| CH 48 | 5240 MHz | 18.99 | 18.82 | 18.91 | 18.02 | 17.57 | 17.51 | 17.00 | 15.82 | 15.08 |
| CH 52 | 5260 MHz | 18.75 | 18.64 | 18.72 | 18.07 | 18.06 | 17.64 | 16.86 | 15.87 | 15.19 |
| CH 60 | 5300 MHz | 18.55 | 18.38 | 18.47 | 17.53 | 17.79 | 17.04 | 16.79 | 15.64 | 14.97 |
| CH 64 | 5320 MHz | 18.52 | 18.15 | 18.33 | 17.41 | 17.40 | 16.60 | 16.10 | 14.96 | 14.33 |
| CH 100 | 5500 MHz | **18.97** | 18.65 | 18.78 | 17.97 | 18.08 | 17.51 | 16.67 | 15.78 | 15.79 |
| CH 116 | 5580 MHz | 18.85 | 18.75 | 18.81 | 17.97 | 18.08 | 17.69 | 16.83 | 16.04 | 15.49 |
| CH 140 | 5700 MHz | 18.24 | 17.88 | 17.99 | 17.36 | 17.47 | 16.71 | 16.07 | 14.99 | 14.21 |

| Channel | Frequency | 5GHz 802.11ac VHT40 Average Power (dBm) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Data Rate | | | | | | | | | |
| | | MCS0 | MCS1 | MCS2 | MCS3 | MCS4 | MCS5 | MCS6 | MCS7 | MCS8 | MCS9 |
| CH 38 | 5190MHz | 16.30 | 16.27 | 16.24 | 16.19 | 16.28 | 16.27 | 15.90 | 15.89 | 14.26 | 12.24 |
| CH 46 | 5230MHz | 17.04 | 17.02 | 16.99 | 16.41 | 16.30 | 16.45 | 16.41 | 15.91 | 13.55 | 11.64 |
| CH 54 | 5270MHz | **17.18** | 17.14 | 17.16 | 16.42 | 16.57 | 16.55 | 16.67 | 16.07 | 13.39 | 11.22 |
| CH 62 | 5310MHz | 16.72 | 16.67 | 16.70 | 16.51 | 16.63 | 16.50 | 16.55 | 15.81 | 13.06 | 11.15 |
| CH 102 | 5510MHz | 16.63 | 16.19 | 16.45 | 16.53 | 16.40 | 16.59 | 16.59 | 15.78 | 13.42 | 11.46 |
| CH 110 | 5550MHz | 17.06 | 17.03 | 16.97 | 16.34 | 16.36 | 16.42 | 16.49 | 15.69 | 13.58 | 11.26 |
| CH 134 | 5670MHz | 16.84 | 16.82 | 16.81 | 16.09 | 16.37 | 16.19 | 16.13 | 15.38 | 13.15 | 11.02 |

| Channel | Frequency | 5GHz 802.11ac VHT80 Average Power (dBm) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Data Rate | | | | | | | | | |
| | | MCS0 | MCS1 | MCS2 | MCS3 | MCS4 | MCS5 | MCS6 | MCS7 | MCS8 | MCS9 |
| CH 042 | 5210MHz | 15.82 | 15.78 | 15.81 | 15.69 | 15.73 | 15.73 | 15.77 | 15.70 | 12.70 | 11.70 |
| CH 058 | 5290MHz | 15.18 | 15.10 | 15.12 | 15.02 | 15.13 | 15.17 | 15.16 | 15.17 | 13.02 | 11.93 |
| CH 106 | 5530MHz | 12.36 | 12.32 | 12.34 | 12.26 | 12.31 | 12.25 | 12.33 | 12.28 | 12.34 | 11.51 |
| CH 122 | 5610MHz | **17.21** | 17.19 | 17.16 | 17.20 | 17.19 | 16.88 | 16.82 | 15.94 | 12.53 | 11.76 |

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

## 2.3 Test Mode

**Final test mode of conducted test items and radiated spurious emissions are considering the modulation and worse data rates from the power table described in section 2.2.**

**Single Antenna**

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

**MIMO Antenna**

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

| Test Cases | |
|---|---|
| AC Conducted Emission | Mode 1 : GSM850 Idle + Bluetooth Link + WLAN (5GHz) Link + Adapter + MP3 |

| 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 |

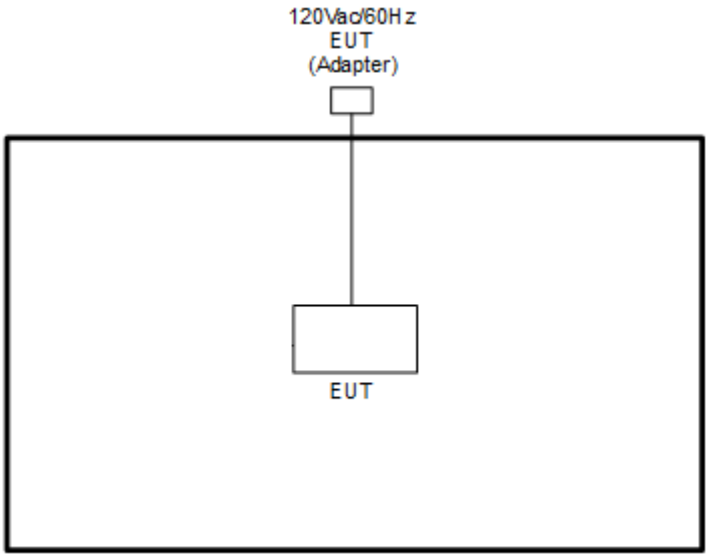
| Ch. # | | Band I：5150-5250 MHz | Band II：5250-5350 MHz | Band III：5470-5725MHz |
|---|---|---|---|---|
| | | 802.11ac VHT20 | 802.11ac VHT20 | 802.11ac VHT20 |
| L | Low | 36 | 52 | 100 |
| M | Middle | 44 | 60 | 116 |
| H | High | 48 | 64 | 140 |
| Straddle | | - | - | 144 |

| Ch. # | | Band I：5150-5250 MHz | Band II：5250-5350 MHz | Band III：5470-5725MHz |
|---|---|---|---|---|
| | | 802.11ac VHT40 | 802.11ac VHT40 | 802.11ac VHT40 |
| L | Low | 38 | 54 | 102 |
| M | Middle | - | - | 110 |
| H | High | 46 | 62 | 134 |
| Straddle | | - | - | 142 |

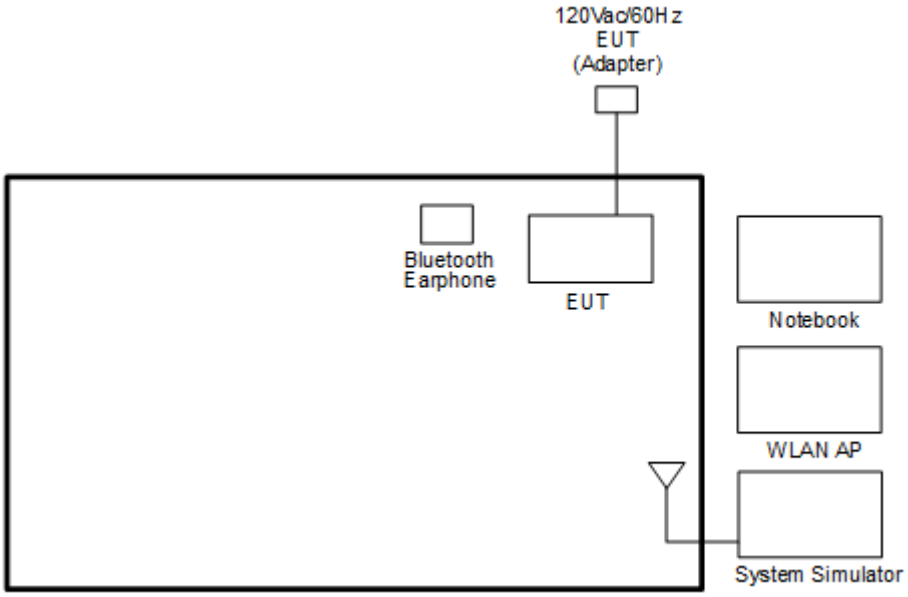
| Ch. # | | Band I：5150-5250 MHz | Band II：5250-5350 MHz | Band III：5470-5725MHz |
|---|---|---|---|---|
| | | 802.11ac VHT80 | 802.11ac VHT80 | 802.11ac VHT80 |
| L | Low | - | - | - |
| M | Middle | 42 | 58 | 106 |
| H | High | - | - | - |
| Straddle | | - | - | 138 |

## 2.4 Connection Diagram of Test System

**<WLAN Tx Mode>**




**<AC Conducted Emission Mode>**



## 2.5 Support Unit used in test configuration and system

| Item | Equipment | Trade Name | Model Name | FCC ID | Data Cable | Power Cord |
|---|---|---|---|---|---|---|
| 1. | System Simulator | Anritsu | MT8820C | N/A | 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/ Contains FCC ID: QDS-BRCM1054 | N/A | AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m |
| 4. | SD Card | SanDisk | MicroSD HC | FCC DoC | N/A | N/A |

## 2.6 EUT Operation Test Setup

For WLAN function, programmed RF utility, “QRCT” installed in the notebook make the EUT provide functions like channel selection and power level for continuous transmitting and receiving signals.

## 2.7 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.

*Offset(dB) = RF cable loss(dB) + attenuator factor(dB).*

= 4.2 + 10 = 14.2 (dB)

# 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, U-NII procedures were applied for operations in the frequency band in accordance with FCC KDB 644545 D03.

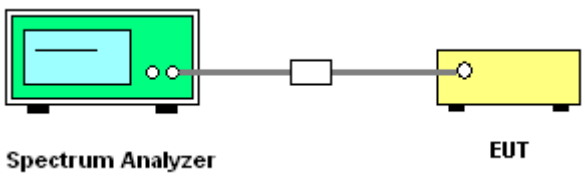
### 3.1.2 Measuring Instruments

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

### 3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r02. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1MHz and set the Video bandwidth (VBW) ≥ 3 * RBW.
8. Measure and record the results in the test report.

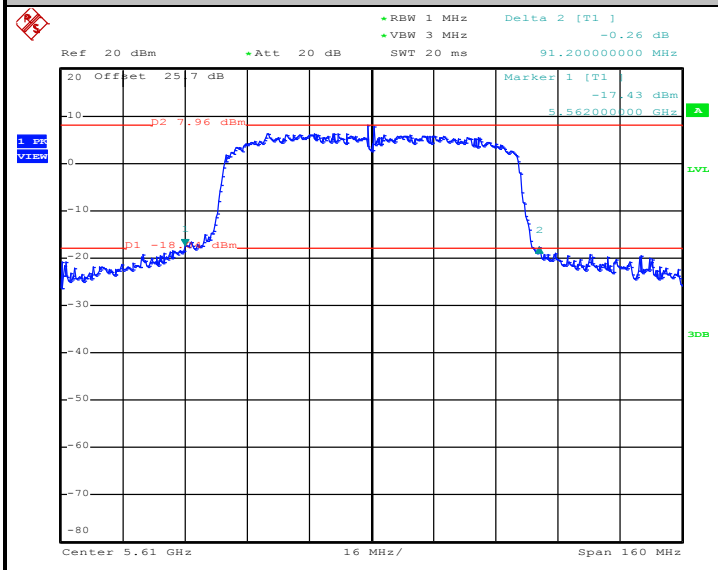
### 3.1.4 Test Setup



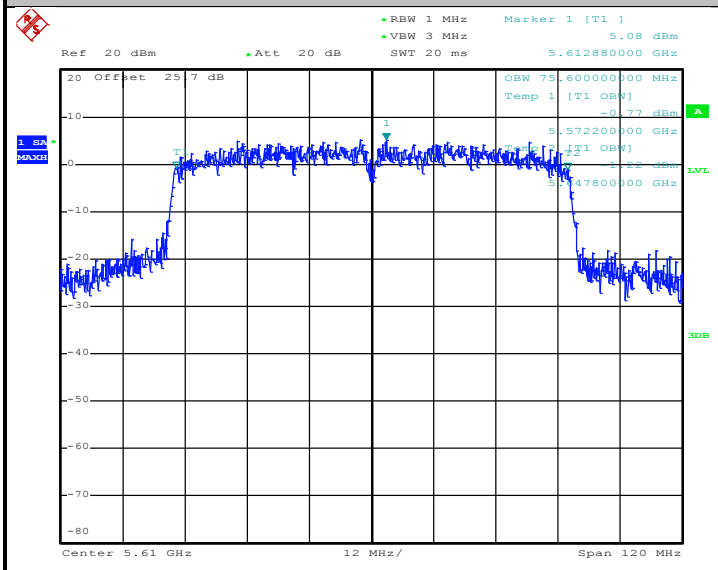
### 3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

**Maximum 26dB Bandwidth**




**Maximum 99% Occupied Bandwidth**



## 3.2 Maximum Conducted Output Power Measurement

### 3.2.1 Limit of Maximum Conducted Output Power

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 the 5.25–5.35 GHz and 5.47–5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm 10 log B, where B is the 26 dB emission bandwidth in megahertz.

For Straddle Channel, U-NII procedures and limits were applied for operations in the frequency band in accordance with FCC KDB 644545 D03.

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

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

### 3.2.2 Measuring Instruments

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

### 3.2.3 Test Procedures

The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r02.
Method PM (Measurement using an RF average power meter):

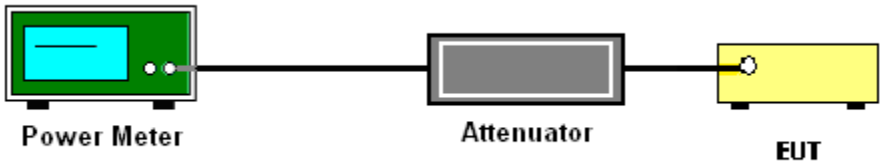
1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
3. Measure the average power of the transmitter, and the average power is corrected with duty factor, 10 log(1/x), where x is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

For straddle channel, the testing follows Method SA-3 (RMS detection with max hold) of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r02.

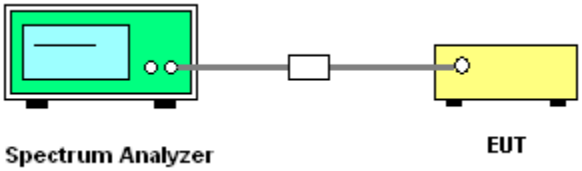
Compute power by integrating the spectrum across the 99% occupied bandwidth of the signal using the instrument's band power measurement function.

### 3.2.4 Test Setup

**For normal channel:**




**For straddle channel:**



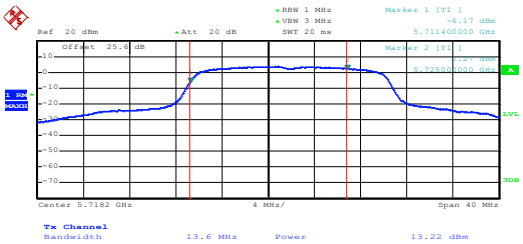

### 3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

## Maximum Straddle Channel Power

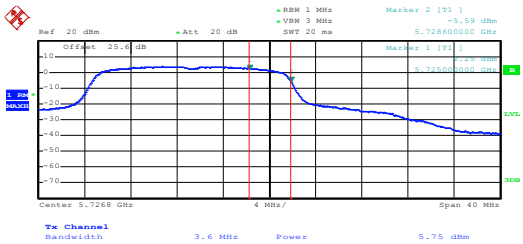
### MIMO Ant. 1

#### NII-2C Band




Date: 17.APR.2016 13:08:26

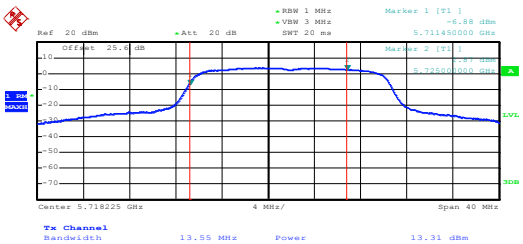
#### DTS Band




Date: 17.APR.2016 13:09:11

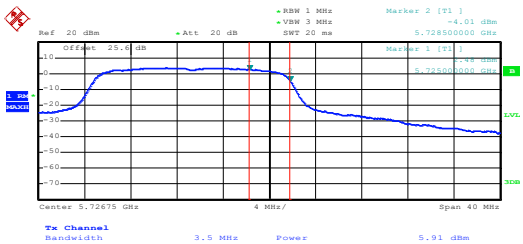
### MIMO Ant. 2

#### NII-2C Band




Date: 17.APR.2016 13:10:51

#### DTS Band




Date: 17.APR.2016 13:11:31

## 3.3 Power Spectral Density Measurement

### 3.3.1 Limit of Power Spectral Density

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum power spectral density shall not exceed 11dBm in any 1 megahertz band.

For the 5.25–5.35 GHz and 5.47–5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

For the band 5.725–5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

For Straddle Channel, U-NII procedures and limits were applied for operations in the frequency band in accordance with FCC KDB 644545 D03.

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

### 3.3.2 Measuring Instruments

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

### 3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r02. Section F) Maximum power spectral density.

**# Method SA-2 #**

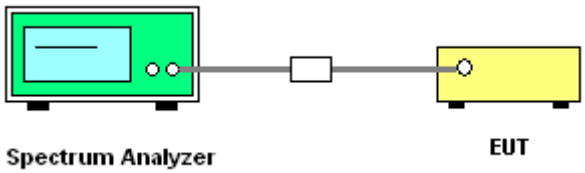
(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

1. The testing follows Method SA-2 of FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r02.
   - Measure the duty cycle.
   - Set span to encompass the entire emission bandwidth (EBW) of the signal.
   - Set RBW = 1 MHz.
   - Set VBW ≥ 3 MHz.
   - Number of points in sweep ≥ 2 Span / RBW.
   - Sweep time = auto.
   - Detector = RMS
   - Trace average at least 100 traces in power averaging mode.
   - Add 10 log(1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add 10 log(1/0.25) = 6 dB if the duty cycle is 25 percent.
2. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
3. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
4. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

   Method (1): 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.

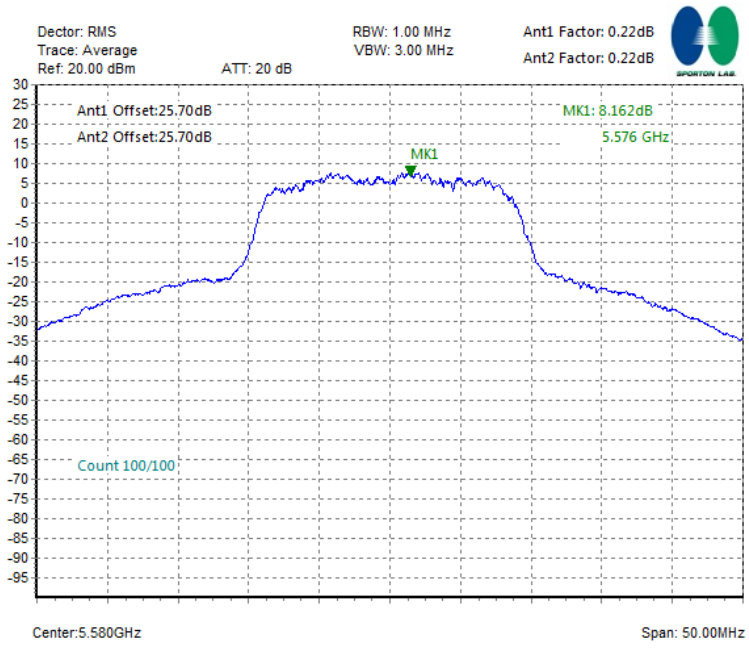
### 3.3.4 Test Setup




### 3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

**Worst Case Power Density (dBm/MHz)**




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

## 3.4 Unwanted Emissions Measurement

This section as specified in FCC Part 15.407(b) is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement. The unwanted emissions shall comply with 15.407(b)(1) to (6), and restricted bands per FCC Part15.205.

### 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 5470-5725MHz band: all emissions outside of the 5470-5725MHz band shall not exceed an EIRP of -27 dBm/MHz.

(2) Unwanted spurious emissions fallen in restricted bands per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 as below table,

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

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

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

| EIRP (dBm) | Field Strength at 3m (dBμV/m) |
|---|---|
| -17 | 78.3 |
| - 27 | 68.3 |

(3) KDB789033 D02 v01r02 G)2)c) As specified in 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in 15.407(b)(4)). However, an out-of-band emission that complies with both the average and peak limits of 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz peak emission limit.

### 3.4.2 Measuring Instruments

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

### 3.4.3 Test Procedures

1. The testing follows FCC ANSI C63.10-2013
   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

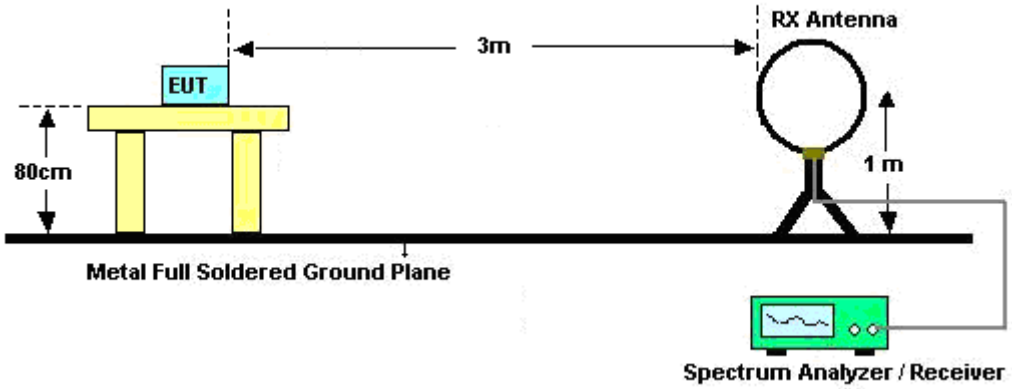
   (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
   - RBW = 1 MHz
   - VBW ≥ 3 MHz
   - Detector = Peak
   - Sweep time = auto
   - Trace mode = max hold

   (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
   - RBW = 1 MHz
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.

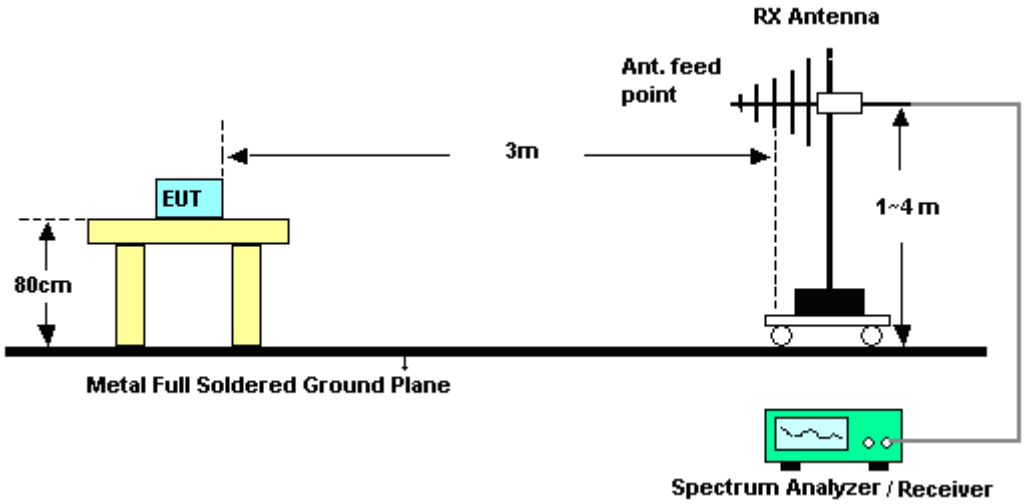
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

### 3.4.4 Test Setup

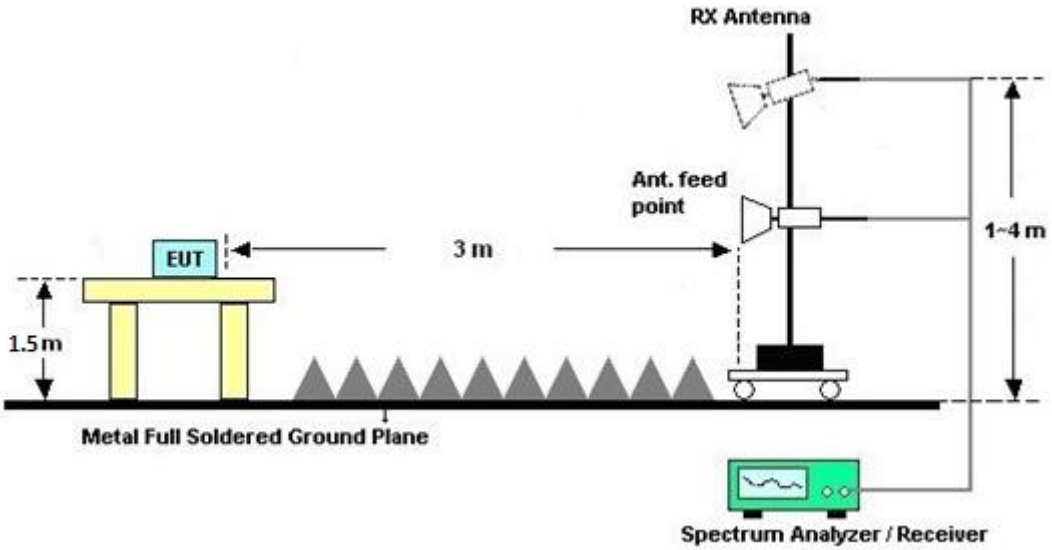
**For radiated emissions below 30MHz**




**For radiated emissions from 30MHz to 1GHz**



**For radiated emissions above 1GHz**




### 3.4.5 Test Results of Radiated 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 per 15.31(o) was not reported.

### 3.4.6 Test Result of Radiated 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 Unwanted Radiated Emission (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 (dBμV) | |
|---|---|---|
| | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56* | 56 to 46* |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

*Decreases with the logarithm of the frequency.

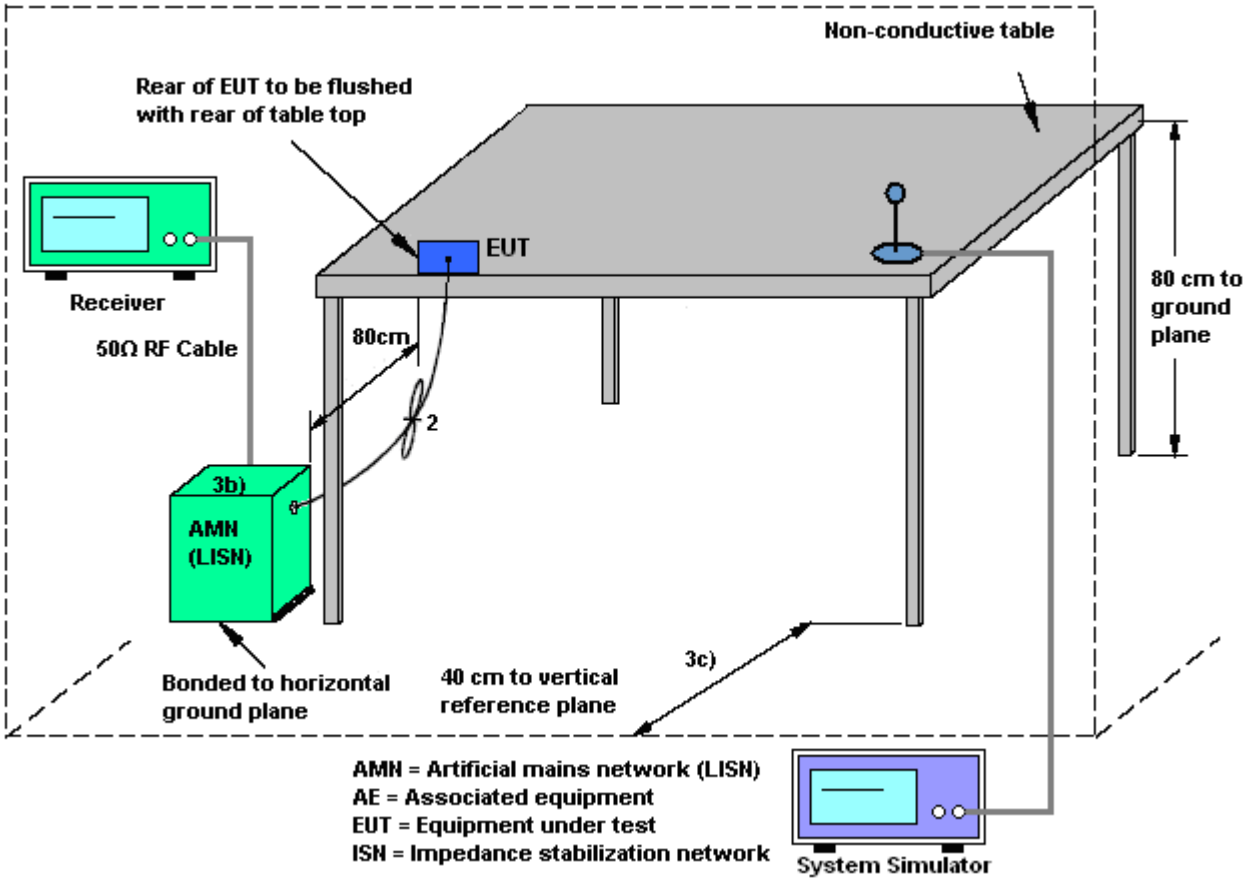
## 3.5.2 Measuring Instruments

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

## 3.5.3 Test Procedures

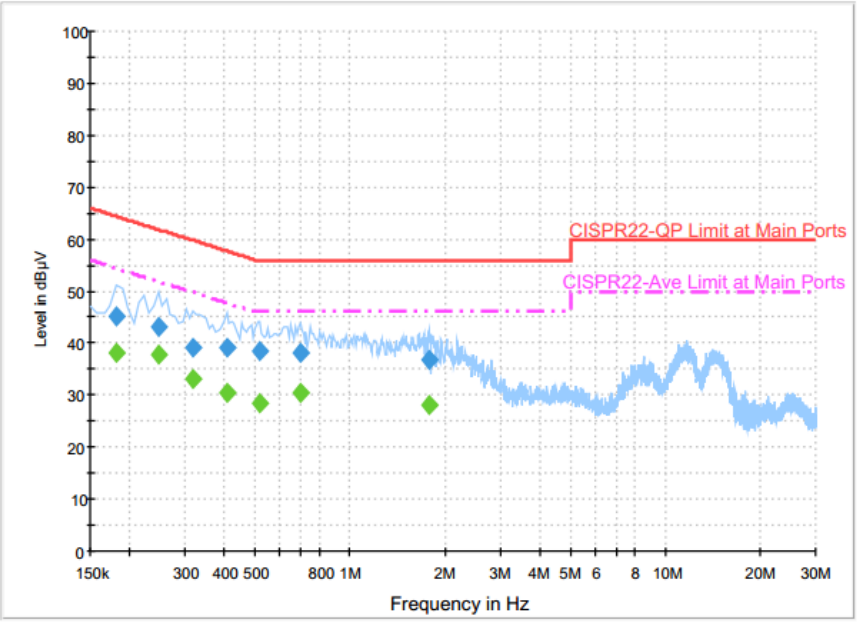
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
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

| Test Mode : | Mode 1 | Temperature : | 21~22℃ |
|---|---|---|---|
| Test Engineer : | Kai-Chun Chu | Relative Humidity : | 50~51% |
| Test Voltage : | 120Vac / 60Hz | Phase : | Line |
| Function Type : | GSM850 Idle + Bluetooth Link + WLAN (5GHz) Link + Adapter + MP3 | | |



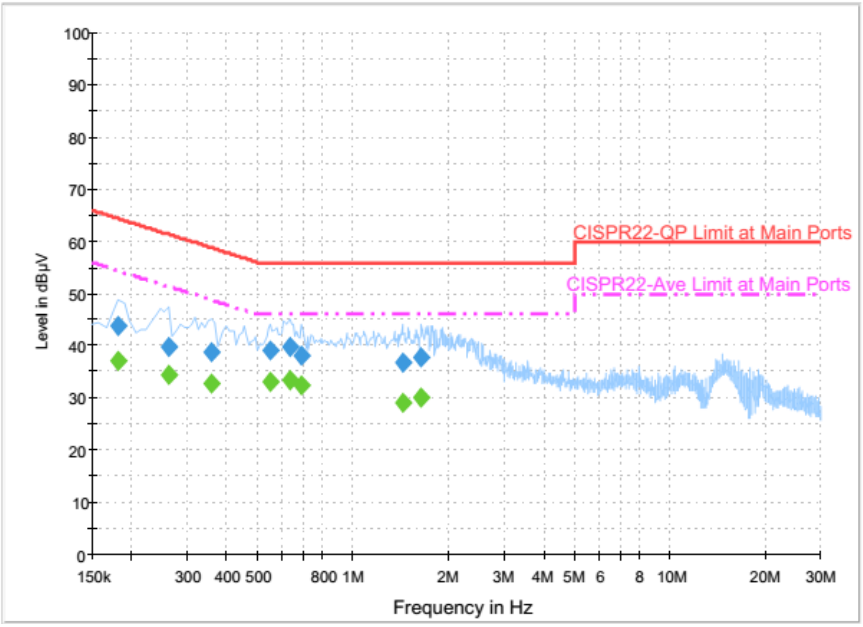

**Final Result : QuasiPeak**

| Frequency (MHz) | QuasiPeak (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|---|---|---|---|---|---|---|
| 0.182000 | 45.0 | Off | L1 | 19.6 | 19.4 | 64.4 |
| 0.246000 | 43.3 | Off | L1 | 19.6 | 18.6 | 61.9 |
| 0.318000 | 39.2 | Off | L1 | 19.6 | 20.6 | 59.8 |
| 0.406000 | 39.0 | Off | L1 | 19.6 | 18.7 | 57.7 |
| 0.518000 | 38.3 | Off | L1 | 19.6 | 17.7 | 56.0 |
| 0.694000 | 38.2 | Off | L1 | 19.6 | 17.8 | 56.0 |
| 1.782000 | 36.6 | Off | L1 | 19.6 | 19.4 | 56.0 |

**Final Result : Average**

| Frequency (MHz) | Average (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|---|---|---|---|---|---|---|
| 0.182000 | 38.0 | Off | L1 | 19.6 | 16.4 | 54.4 |
| 0.246000 | 37.6 | Off | L1 | 19.6 | 14.3 | 51.9 |
| 0.318000 | 33.0 | Off | L1 | 19.6 | 16.8 | 49.8 |
| 0.406000 | 30.4 | Off | L1 | 19.6 | 17.3 | 47.7 |
| 0.518000 | 28.3 | Off | L1 | 19.6 | 17.7 | 46.0 |
| 0.694000 | 30.6 | Off | L1 | 19.6 | 15.4 | 46.0 |
| 1.782000 | 28.1 | Off | L1 | 19.6 | 17.9 | 46.0 |

| Test Mode : | Mode 1 | Temperature : | 21~22℃ |
|---|---|---|---|
| Test Engineer : | Kai-Chun Chu | Relative Humidity : | 50~51% |
| Test Voltage : | 120Vac / 60Hz | Phase : | Neutral |
| Function Type : | GSM850 Idle + Bluetooth Link + WLAN (5GHz) Link + Adapter + MP3 | | |




**Final Result : QuasiPeak**

| Frequency (MHz) | QuasiPeak (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|---|---|---|---|---|---|---|
| 0.182000 | 43.7 | Off | N | 19.6 | 20.7 | 64.4 |
| 0.262000 | 39.9 | Off | N | 19.6 | 21.5 | 61.4 |
| 0.358000 | 38.7 | Off | N | 19.6 | 20.1 | 58.8 |
| 0.550000 | 39.2 | Off | N | 19.6 | 16.8 | 56.0 |
| 0.630000 | 39.7 | Off | N | 19.6 | 16.3 | 56.0 |
| 0.686000 | 38.0 | Off | N | 19.6 | 18.0 | 56.0 |
| 1.438000 | 36.7 | Off | N | 19.6 | 19.3 | 56.0 |
| 1.646000 | 38.0 | Off | N | 19.6 | 18.0 | 56.0 |

**Final Result : Average**

| Frequency (MHz) | Average (dBµV) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) |
|---|---|---|---|---|---|---|
| 0.182000 | 37.3 | Off | N | 19.6 | 17.1 | 54.4 |
| 0.262000 | 34.5 | Off | N | 19.6 | 16.9 | 51.4 |
| 0.358000 | 32.9 | Off | N | 19.6 | 15.9 | 48.8 |
| 0.550000 | 33.1 | Off | N | 19.6 | 12.9 | 46.0 |
| 0.630000 | 33.4 | Off | N | 19.6 | 12.6 | 46.0 |
| 0.686000 | 32.4 | Off | N | 19.6 | 13.6 | 46.0 |
| 1.438000 | 29.1 | Off | N | 19.6 | 16.9 | 46.0 |
| 1.646000 | 30.1 | Off | N | 19.6 | 15.9 | 46.0 |

# 3.6 Frequency Stability Measurement

## 3.6.1 Limit of Frequency Stability

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

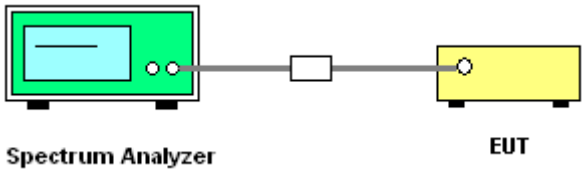
## 3.6.2 Measuring Instruments

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

## 3.6.3 Test Procedures

1. To ensure emission at the band edge is maintained within the authorized band, those values shall be measured by radiation emissions at upper and lower frequency points, and finally compensated by frequency deviation as procedures below.
2. The EUT was operated at the maximum output power, and connected to the spectrum analyzer, which is set to maximum hold function and peak detector. The peak value of the power envelope was measured and noted. The upper and lower frequency points were respectively measured relatively 10dB lower than the measured peak value.
3. The frequency deviation was calculated by adding the upper frequency point and the lower frequency point divided by two. Those detailed values of frequency deviation are provided in table below.

## 3.6.4 Test Setup




## 3.6.5 Test Result of Frequency Stability

Please refer to Appendix A.

# 3.7 Automatically Discontinue Transmission

## 3.7.1 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.

## 3.7.2 Measuring Instruments

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

## 3.7.3 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.

# 3.8 Antenna Requirements

## 3.8.1 Standard Applicable

According to FCC 47 CFR Section 15.407(a)(1)(2) ,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.

## 3.8.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

## 3.8.3 Antenna Gain

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = $G_{ANT}$ + Array Gain, where Array Gain is as follows.

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

Array Gain = 10 log($N_{ANT}/N_{SS}$=1) dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$.

Directional gain may be calculated by using the formulas applicable to equal gain antennas with $G_{ANT}$ set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

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.

| | Ant 1 (dBi) | Ant 2 (dBi) | DG for Power (dBi) | DG for PSD (dBi) | Power Limit Reduction (dB) | PSD Limit Reduction (dB) |
|---|---|---|---|---|---|---|
| **Band I** | -1.00 | -7.60 | -1.00 | -0.68 | 0.00 | 0.00 |
| **Band II** | -1.00 | -7.60 | -1.00 | -0.68 | 0.00 | 0.00 |
| **Band III** | -0.10 | -7.80 | -0.10 | -0.11 | 0.00 | 0.00 |

*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 | 1036004 | 300MHz~40GHz | Jul. 29, 2015 | Apr. 16, 2016 ~ Apr. 29, 2016 | Jul. 28, 2016 | Conducted (TH02-HY) |
| Power Sensor | Anritsu | MA2411B | 1027253 | 300MHz~40GHz | Jul. 29, 2015 | Apr. 16, 2016 ~ Apr. 29, 2016 | Jul. 28, 2016 | Conducted (TH02-HY) |
| Spectrum Analyzer | Rohde & Schwarz | FSP40 | 100055 | 9kHz~40GHz | Jun. 18, 2015 | Apr. 16, 2016 ~ Apr. 29, 2016 | Jun. 17, 2016 | Conducted (TH02-HY) |
| AC Power Source | ChainTek | APC-1000W | N/A | N/A | N/A | Apr. 15, 2016 | N/A | Conduction (CO05-HY) |
| EMI Test Receiver | Rohde & Schwarz | ESCI 7 | 100724 | 9kHz~7GHz | Aug. 26, 2015 | Apr. 15, 2016 | Aug. 25, 2016 | Conduction (CO05-HY) |
| LISN | Rohde & Schwarz | ENV216 | 100080 | 9kHz~30MHz | Dec. 02, 2015 | Apr. 15, 2016 | Dec. 01, 2016 | Conduction (CO05-HY) |
| Loop Antenna | Rohde & Schwarz | HFH2-Z2 | 100315 | 9 kHz~30 MHz | Sep. 02, 2015 | Apr. 19, 2016 ~ Apr. 26, 2016 | Sep. 01, 2016 | Radiation (03CH11-HY) |
| Amplifier | SONOMA | 310N | 187312 | 9kHz~1GHz | Nov. 20, 2015 | Apr. 19, 2016 ~ Apr. 26, 2016 | Nov. 19, 2016 | Radiation (03CH11-HY) |
| Bilog Antenna | TESEQ | CBL 6111D | 35414 | 30MHz~1GHz | Nov. 17, 2015 | Apr. 19, 2016 ~ Apr. 26, 2016 | Nov. 16, 2016 | Radiation (03CH11-HY) |
| Horn Antenna | SCHWARZBECK | BBHA 9120 D | 9120D-1326 | 1GHz ~ 18GHz | Oct. 08, 2015 | Apr. 19, 2016 ~ Apr. 26, 2016 | Oct. 07, 2016 | Radiation (03CH11-HY) |
| Preamplifier | Keysight | 83017A | MY53270080 | 1GHz~26.5GHz | Nov. 19, 2015 | Apr. 19, 2016 ~ Apr. 26, 2016 | Nov. 18, 2016 | Radiation (03CH11-HY) |
| Preamplifier | MITEQ | AMF-7D-00101800-30-10P | 1902247 | 1GHz~18GHz | Jul. 01, 2015 | Apr. 19, 2016 ~ Apr. 26, 2016 | Jun. 30, 2016 | Radiation (03CH11-HY) |
| Spectrum Analyzer | Keysight | N9010A | MY54200486 | 10Hz ~ 44GHZ | Sep. 24, 2015 | Apr. 19, 2016 ~ Apr. 26, 2016 | Sep. 23, 2016 | Radiation (03CH11-HY) |
| Antenna Mast | EMEC | AM-BS-4500-B | N/A | 1~4m | N/A | Apr. 19, 2016 ~ Apr. 26, 2016 | N/A | Radiation (03CH11-HY) |
| Turn Table | EMEC | TT 2000 | N/A | 0~360 Degree | N/A | Apr. 19, 2016 ~ Apr. 26, 2016 | N/A | Radiation (03CH11-HY) |
| SHF-EHF Horn Antenna | SCHWARZBECK | BBHA 9170 | BBHA9170584 | 18GHz- 40GHz | Nov. 02, 2015 | Apr. 19, 2016 ~ Apr. 26, 2016 | Nov. 01, 2016 | Radiation (03CH11-HY) |
| Preamplifier | MITEQ | JS44-18004000-33-8P | 1840917 | 18GHz ~ 40GHz | Jun. 02, 2015 | Apr. 19, 2016 ~ Apr. 26, 2016 | Jun. 01, 2016 | Radiation (03CH11-HY) |

# 5 Uncertainty of Evaluation

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

| | |
|---|---|
| **Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))** | **2.26** |

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

| | |
|---|---|
| **Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))** | **4.90** |

# Appendix A. Conducted Test Results

Report Number : FR640145D

| | | | | |
|---|---|---|---|---|
| Test Engineer: | AC Chang | Temperature: | 21~25 | °C |
| Test Date: | 2016/04/16 ~ 2016/04/29 | Relative Humidity: | 51~54 | % |

Report Number : FR640145D

## ***TEST RESULTS DATA***
## ***Average Power Table***

| 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 | 1 | 36 | 5180 | 0.22 | 0.25 | 16.57 | 16.42 | | 24.00 | 24.00 | -1.00 | -7.60 | | Pass |
| 11a | 6Mbps | 1 | 44 | 5220 | 0.22 | 0.25 | 16.50 | 16.31 | | 24.00 | 24.00 | -1.00 | -7.60 | | Pass |
| 11a | 6Mbps | 1 | 48 | 5240 | 0.22 | 0.25 | 16.65 | 16.46 | | 24.00 | 24.00 | -1.00 | -7.60 | | Pass |
| HT20 | MCS0 | 1 | 36 | 5180 | 0.24 | 0.22 | 16.37 | 16.14 | | 24.00 | 24.00 | -1.00 | -7.60 | | Pass |
| HT20 | MCS0 | 1 | 44 | 5220 | 0.24 | 0.22 | 16.29 | 16.14 | | 24.00 | 24.00 | -1.00 | -7.60 | | Pass |
| HT20 | MCS0 | 1 | 48 | 5240 | 0.24 | 0.22 | 16.46 | 16.22 | | 24.00 | 24.00 | -1.00 | -7.60 | | Pass |
| HT40 | MCS0 | 1 | 38 | 5190 | 0.48 | 0.43 | 13.56 | 13.76 | | 24.00 | 24.00 | -1.00 | -7.60 | | Pass |
| HT40 | MCS0 | 1 | 46 | 5230 | 0.48 | 0.43 | 14.76 | 14.46 | | 24.00 | 24.00 | -1.00 | -7.60 | | Pass |
| VHT20 | MCS0 | 1 | 36 | 5180 | 0.46 | 0.42 | 16.33 | 16.22 | | 24.00 | 24.00 | -1.00 | -7.60 | | Pass |
| VHT20 | MCS0 | 1 | 44 | 5220 | 0.46 | 0.42 | 16.22 | 16.00 | | 24.00 | 24.00 | -1.00 | -7.60 | | Pass |
| VHT20 | MCS0 | 1 | 48 | 5240 | 0.46 | 0.42 | 16.43 | 16.32 | | 24.00 | 24.00 | -1.00 | -7.60 | | Pass |
| VHT40 | MCS0 | 1 | 38 | 5190 | 0.48 | 0.48 | 13.60 | 13.77 | | 24.00 | 24.00 | -1.00 | -7.60 | | Pass |
| VHT40 | MCS0 | 1 | 46 | 5230 | 0.48 | 0.48 | 14.82 | 14.70 | | 24.00 | 24.00 | -1.00 | -7.60 | | Pass |
| VHT80 | MCS0 | 1 | 42 | 5210 | 0.67 | 0.67 | 13.25 | 13.19 | | 24.00 | 24.00 | -1.00 | -7.60 | | Pass |
| 11a | 6Mbps | 2 | 36 | 5180 | 0.24 | 0.22 | 15.55 | 15.83 | 18.71 | 24.00 | | -1.00 | | | Pass |
| 11a | 6Mbps | 2 | 44 | 5220 | 0.24 | 0.22 | 15.70 | 15.90 | 18.82 | 24.00 | | -1.00 | | | Pass |
| 11a | 6Mbps | 2 | 48 | 5240 | 0.24 | 0.22 | 15.74 | 15.92 | 18.85 | 24.00 | | -1.00 | | | Pass |
| HT20 | MCS0 | 2 | 36 | 5180 | 0.22 | 0.22 | 15.62 | 15.72 | 18.68 | 24.00 | | -1.00 | | | Pass |
| HT20 | MCS0 | 2 | 44 | 5220 | 0.22 | 0.22 | 15.50 | 15.68 | 18.60 | 24.00 | | -1.00 | | | Pass |
| HT20 | MCS0 | 2 | 48 | 5240 | 0.22 | 0.22 | 15.75 | 15.71 | 18.74 | 24.00 | | -1.00 | | | Pass |
| HT40 | MCS0 | 2 | 38 | 5190 | 0.43 | 0.52 | 13.25 | 13.74 | 16.51 | 24.00 | | -1.00 | | | Pass |
| HT40 | MCS0 | 2 | 46 | 5230 | 0.43 | 0.52 | 14.02 | 14.20 | 17.12 | 24.00 | | -1.00 | | | Pass |
| VHT20 | MCS0 | 2 | 36 | 5180 | 0.42 | 0.46 | 15.43 | 15.99 | 18.73 | 24.00 | | -1.00 | | | Pass |
| VHT20 | MCS0 | 2 | 44 | 5220 | 0.42 | 0.46 | 15.54 | 15.75 | 18.66 | 24.00 | | -1.00 | | | Pass |
| VHT20 | MCS0 | 2 | 48 | 5240 | 0.42 | 0.46 | 15.86 | 16.10 | 18.99 | 24.00 | | -1.00 | | | Pass |
| VHT40 | MCS0 | 2 | 38 | 5190 | 0.43 | 0.43 | 13.05 | 13.52 | 16.30 | 24.00 | | -1.00 | | | Pass |
| VHT40 | MCS0 | 2 | 46 | 5230 | 0.43 | 0.43 | 14.06 | 13.99 | 17.04 | 24.00 | | -1.00 | | | Pass |
| VHT80 | MCS0 | 2 | 42 | 5210 | 0.67 | 0.67 | 12.64 | 12.97 | 15.82 | 24.00 | | -1.00 | | | Pass |

Report Number : FR640145D

***TEST RESULTS DATA***
***26dB and 99% OBW***

| Band I | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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) | | | Note |
| | | | | | Ant 1 | Ant 2 | Ant 1 | Ant 2 | Ant 1 | Ant 2 | Ant 1 | Ant 2 | | |
| 11a | 6Mbps | 1 | 36 | 5180 | 17.20 | 17.05 | 31.50 | 26.90 | - | | 22.36 | 22.32 | | |
| 11a | 6Mbps | 1 | 44 | 5220 | 17.20 | 17.20 | 33.20 | 30.10 | - | | 22.36 | 22.36 | | |
| 11a | 6Mbps | 1 | 48 | 5240 | 17.25 | 17.05 | 31.40 | 29.90 | - | | 22.37 | 22.32 | | |
| HT20 | MCS0 | 1 | 36 | 5180 | 18.10 | 18.05 | 25.80 | 25.90 | - | | 22.58 | 22.56 | | |
| HT20 | MCS0 | 1 | 44 | 5220 | 18.15 | 18.05 | 30.20 | 28.60 | - | | 22.59 | 22.56 | | |
| HT20 | MCS0 | 1 | 48 | 5240 | 18.15 | 18.00 | 30.10 | 27.80 | - | | 22.59 | 22.55 | | |
| HT40 | MCS0 | 1 | 38 | 5190 | 36.20 | 36.20 | 42.12 | 45.90 | - | | 23.01 | 23.01 | | |
| HT40 | MCS0 | 1 | 46 | 5230 | 36.20 | 36.10 | 43.56 | 46.62 | - | | 23.01 | 23.01 | | |
| VHT20 | MCS0 | 1 | 36 | 5180 | 18.05 | 18.00 | 27.40 | 25.00 | - | | 22.56 | 22.55 | | |
| VHT20 | MCS0 | 1 | 44 | 5220 | 18.15 | 18.00 | 32.00 | 28.10 | - | | 22.59 | 22.55 | | |
| VHT20 | MCS0 | 1 | 48 | 5240 | 18.25 | 18.05 | 35.00 | 27.40 | - | | 22.61 | 22.56 | | |
| VHT40 | MCS0 | 1 | 38 | 5190 | 36.10 | 36.10 | 42.84 | 47.52 | - | | 23.01 | 23.01 | | |
| VHT40 | MCS0 | 1 | 46 | 5230 | 36.20 | 36.20 | 45.90 | 44.82 | - | | 23.01 | 23.01 | | |
| VHT80 | MCS0 | 1 | 42 | 5210 | 75.12 | 75.12 | 82.88 | 83.52 | - | | 23.01 | 23.01 | | |
| 11a | 6Mbps | 2 | 36 | 5180 | 17.20 | 17.15 | 32.60 | 30.70 | - | | 22.34 | | | |
| 11a | 6Mbps | 2 | 44 | 5220 | 17.15 | 17.10 | 30.90 | 29.80 | - | | 22.33 | | | |
| 11a | 6Mbps | 2 | 48 | 5240 | 17.25 | 17.15 | 31.20 | 30.60 | - | | 22.34 | | | |
| HT20 | MCS0 | 2 | 36 | 5180 | 18.05 | 18.05 | 28.50 | 26.40 | - | | 22.56 | | | |
| HT20 | MCS0 | 2 | 44 | 5220 | 18.25 | 18.20 | 28.70 | 29.70 | - | | 22.60 | | | |
| HT20 | MCS0 | 2 | 48 | 5240 | 18.10 | 18.20 | 29.20 | 31.80 | - | | 22.58 | | | |
| HT40 | MCS0 | 2 | 38 | 5190 | 36.10 | 36.20 | 41.76 | 51.48 | - | | 23.01 | | | |
| HT40 | MCS0 | 2 | 46 | 5230 | 36.20 | 36.20 | 44.82 | 42.66 | - | | 23.01 | | | |
| VHT20 | MCS0 | 2 | 36 | 5180 | 18.10 | 18.25 | 29.80 | 27.40 | - | | 22.58 | | | |
| VHT20 | MCS0 | 2 | 44 | 5220 | 18.10 | 18.15 | 29.50 | 29.60 | - | | 22.58 | | | |
| VHT20 | MCS0 | 2 | 48 | 5240 | 18.20 | 18.05 | 29.20 | 27.50 | - | | 22.56 | | | |
| VHT40 | MCS0 | 2 | 38 | 5190 | 36.20 | 36.20 | 50.04 | 43.74 | - | | 23.01 | | | |
| VHT40 | MCS0 | 2 | 46 | 5230 | 36.20 | 36.20 | 44.28 | 47.16 | - | | 23.01 | | | |
| VHT80 | MCS0 | 2 | 42 | 5210 | 75.24 | 75.12 | 83.52 | 84.48 | - | | 23.01 | | | |

Report Number : FR640145D

## ***TEST RESULTS DATA***
## ***Power Spectral Density***

| FCC Band I | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | 36 | 5180 | 0.22 | 0.25 | 5.63 | 5.62 | | 11.00 | 11.00 | -1.00 | -7.60 | | Pass |
| 11a | 6Mbps | 1 | 44 | 5220 | 0.22 | 0.25 | 5.65 | 5.66 | | 11.00 | 11.00 | -1.00 | -7.60 | | Pass |
| 11a | 6Mbps | 1 | 48 | 5240 | 0.22 | 0.25 | 5.97 | 5.80 | | 11.00 | 11.00 | -1.00 | -7.60 | | Pass |
| HT20 | MCS0 | 1 | 36 | 5180 | 0.24 | 0.22 | 5.20 | 5.13 | | 11.00 | 11.00 | -1.00 | -7.60 | | Pass |
| HT20 | MCS0 | 1 | 44 | 5220 | 0.24 | 0.22 | 5.37 | 5.34 | | 11.00 | 11.00 | -1.00 | -7.60 | | Pass |
| HT20 | MCS0 | 1 | 48 | 5240 | 0.24 | 0.22 | 5.53 | 5.30 | | 11.00 | 11.00 | -1.00 | -7.60 | | Pass |
| HT40 | MCS0 | 1 | 38 | 5190 | 0.48 | 0.43 | -0.13 | -0.30 | | 11.00 | 11.00 | -1.00 | -7.60 | | Pass |
| HT40 | MCS0 | 1 | 46 | 5230 | 0.48 | 0.43 | 0.70 | 0.93 | | 11.00 | 11.00 | -1.00 | -7.60 | | Pass |
| VHT20 | MCS0 | 1 | 36 | 5180 | 0.46 | 0.42 | 5.34 | 5.18 | | 11.00 | 11.00 | -1.00 | -7.60 | | Pass |
| VHT20 | MCS0 | 1 | 44 | 5220 | 0.46 | 0.42 | 5.48 | 5.56 | | 11.00 | 11.00 | -1.00 | -7.60 | | Pass |
| VHT20 | MCS0 | 1 | 48 | 5240 | 0.46 | 0.42 | 5.81 | 5.59 | | 11.00 | 11.00 | -1.00 | -7.60 | | Pass |
| VHT40 | MCS0 | 1 | 38 | 5190 | 0.48 | 0.48 | 0.03 | -0.46 | | 11.00 | 11.00 | -1.00 | -7.60 | | Pass |
| VHT40 | MCS0 | 1 | 46 | 5230 | 0.48 | 0.48 | 0.68 | 0.76 | | 11.00 | 11.00 | -1.00 | -7.60 | | Pass |
| VHT80 | MCS0 | 1 | 42 | 5210 | 0.67 | 0.67 | -3.54 | -3.67 | | 11.00 | 11.00 | -1.00 | -7.60 | | Pass |
| 11a | 6Mbps | 2 | 36 | 5180 | 0.24 | 0.22 | | | 6.96 | 11.00 | | -0.68 | | | Pass |
| 11a | 6Mbps | 2 | 44 | 5220 | 0.24 | 0.22 | | | 7.45 | 11.00 | | -0.68 | | | Pass |
| 11a | 6Mbps | 2 | 48 | 5240 | 0.24 | 0.22 | | | 7.52 | 11.00 | | -0.68 | | | Pass |
| HT20 | MCS0 | 2 | 36 | 5180 | 0.22 | 0.22 | | | 7.00 | 11.00 | | -0.68 | | | Pass |
| HT20 | MCS0 | 2 | 44 | 5220 | 0.22 | 0.22 | | | 6.76 | 11.00 | | -0.68 | | | Pass |
| HT20 | MCS0 | 2 | 48 | 5240 | 0.22 | 0.22 | | | 7.11 | 11.00 | | -0.68 | | | Pass |
| HT40 | MCS0 | 2 | 38 | 5190 | 0.43 | 0.52 | | | 0.16 | 11.00 | | -0.68 | | | Pass |
| HT40 | MCS0 | 2 | 46 | 5230 | 0.43 | 0.52 | | | 2.68 | 11.00 | | -0.68 | | | Pass |
| VHT20 | MCS0 | 2 | 36 | 5180 | 0.42 | 0.46 | | | 7.31 | 11.00 | | -0.68 | | | Pass |
| VHT20 | MCS0 | 2 | 44 | 5220 | 0.42 | 0.46 | | | 6.99 | 11.00 | | -0.68 | | | Pass |
| VHT20 | MCS0 | 2 | 48 | 5240 | 0.42 | 0.46 | | | 7.17 | 11.00 | | -0.68 | | | Pass |
| VHT40 | MCS0 | 2 | 38 | 5190 | 0.43 | 0.43 | | | 0.64 | 11.00 | | -0.68 | | | Pass |
| VHT40 | MCS0 | 2 | 46 | 5230 | 0.43 | 0.43 | | | 1.93 | 11.00 | | -0.68 | | | Pass |
| VHT80 | MCS0 | 2 | 42 | 5210 | 0.67 | 0.67 | | | -2.41 | 11.00 | | -0.68 | | | Pass |

Report Number : FR640145D

## ***TEST RESULTS DATA***
## ***Average Power Table***

| FCC Band II | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | 1 | 52 | 5260 | 0.22 | 0.25 | 16.79 | 16.47 | | 23.98 | 23.98 | -1.00 | -7.60 | | Pass |
| 11a | 6Mbps | 1 | 60 | 5300 | 0.22 | 0.25 | 16.55 | 16.30 | | 23.98 | 23.98 | -1.00 | -7.60 | | Pass |
| 11a | 6Mbps | 1 | 64 | 5320 | 0.22 | 0.25 | 16.45 | 16.22 | | 23.98 | 23.98 | -1.00 | -7.60 | | Pass |
| HT20 | MCS0 | 1 | 52 | 5260 | 0.24 | 0.22 | 16.54 | 16.32 | | 23.98 | 23.98 | -1.00 | -7.60 | | Pass |
| HT20 | MCS0 | 1 | 60 | 5300 | 0.24 | 0.22 | 16.26 | 16.03 | | 23.98 | 23.98 | -1.00 | -7.60 | | Pass |
| HT20 | MCS0 | 1 | 64 | 5320 | 0.24 | 0.22 | 16.25 | 15.98 | | 23.98 | 23.98 | -1.00 | -7.60 | | Pass |
| HT40 | MCS0 | 1 | 54 | 5270 | 0.48 | 0.43 | 14.90 | 14.50 | | 23.98 | 23.98 | -1.00 | -7.60 | | Pass |
| HT40 | MCS0 | 1 | 62 | 5310 | 0.48 | 0.43 | 14.23 | 14.17 | | 23.98 | 23.98 | -1.00 | -7.60 | | Pass |
| VHT20 | MCS0 | 1 | 52 | 5260 | 0.46 | 0.42 | 16.46 | 16.31 | | 23.98 | 23.98 | -1.00 | -7.60 | | Pass |
| VHT20 | MCS0 | 1 | 60 | 5300 | 0.46 | 0.42 | 16.16 | 16.11 | | 23.98 | 23.98 | -1.00 | -7.60 | | Pass |
| VHT20 | MCS0 | 1 | 64 | 5320 | 0.46 | 0.42 | 16.22 | 16.07 | | 23.98 | 23.98 | -1.00 | -7.60 | | Pass |
| VHT40 | MCS0 | 1 | 54 | 5270 | 0.48 | 0.48 | 14.94 | 14.71 | | 23.98 | 23.98 | -1.00 | -7.60 | | Pass |
| VHT40 | MCS0 | 1 | 62 | 5310 | 0.48 | 0.48 | 14.25 | 13.90 | | 23.98 | 23.98 | -1.00 | -7.60 | | Pass |
| VHT80 | MCS0 | 1 | 58 | 5290 | 0.67 | 0.67 | 12.52 | 12.21 | | 23.98 | 23.98 | -1.00 | -7.60 | | Pass |
| 11a | 6Mbps | 2 | 52 | 5260 | 0.24 | 0.22 | 16.03 | 15.82 | 18.94 | 23.98 | | -1.00 | | | Pass |
| 11a | 6Mbps | 2 | 60 | 5300 | 0.24 | 0.22 | 15.80 | 15.52 | 18.68 | 23.98 | | -1.00 | | | Pass |
| 11a | 6Mbps | 2 | 64 | 5320 | 0.24 | 0.22 | 15.80 | 15.49 | 18.66 | 23.98 | | -1.00 | | | Pass |
| HT20 | MCS0 | 2 | 52 | 5260 | 0.22 | 0.22 | 15.79 | 15.64 | 18.73 | 23.98 | | -1.00 | | | Pass |
| HT20 | MCS0 | 2 | 60 | 5300 | 0.22 | 0.22 | 15.57 | 15.36 | 18.48 | 23.98 | | -1.00 | | | Pass |
| HT20 | MCS0 | 2 | 64 | 5320 | 0.22 | 0.22 | 15.54 | 15.27 | 18.42 | 23.98 | | -1.00 | | | Pass |
| HT40 | MCS0 | 2 | 54 | 5270 | 0.43 | 0.52 | 14.38 | 14.06 | 17.23 | 23.98 | | -1.00 | | | Pass |
| HT40 | MCS0 | 2 | 62 | 5310 | 0.43 | 0.52 | 13.88 | 13.75 | 16.83 | 23.98 | | -1.00 | | | Pass |
| VHT20 | MCS0 | 2 | 52 | 5260 | 0.42 | 0.46 | 15.77 | 15.70 | 18.75 | 23.98 | | -1.00 | | | Pass |
| VHT20 | MCS0 | 2 | 60 | 5300 | 0.42 | 0.46 | 15.72 | 15.35 | 18.55 | 23.98 | | -1.00 | | | Pass |
| VHT20 | MCS0 | 2 | 64 | 5320 | 0.42 | 0.46 | 15.67 | 15.34 | 18.52 | 23.98 | | -1.00 | | | Pass |
| VHT40 | MCS0 | 2 | 54 | 5270 | 0.43 | 0.43 | 14.26 | 14.08 | 17.18 | 23.98 | | -1.00 | | | Pass |
| VHT40 | MCS0 | 2 | 62 | 5310 | 0.43 | 0.43 | 13.88 | 13.54 | 16.72 | 23.98 | | -1.00 | | | Pass |
| VHT80 | MCS0 | 2 | 58 | 5290 | 0.67 | 0.67 | 12.17 | 12.17 | 15.18 | 23.98 | | -1.00 | | | Pass |

Report Number : FR640145D

## ***TEST RESULTS DATA***
## ***26dB and 99% OBW***

| 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) | | Note |
| | | | | | Ant 1 | Ant 2 | Ant 1 | Ant 2 | Ant 1 | Ant 2 | Ant 1 | Ant 2 | Ant 1 | Ant 2 | |
| 11a | 6Mbps | 1 | 52 | 5260 | 17.25 | 17.05 | 32.80 | 29.60 | 23.37 | 23.32 | 29.37 | 29.32 | 23.98 | 23.98 | |
| 11a | 6Mbps | 1 | 60 | 5300 | 17.30 | 17.15 | 31.50 | 30.40 | 23.38 | 23.34 | 29.38 | 29.34 | 23.98 | 23.98 | |
| 11a | 6Mbps | 1 | 64 | 5320 | 17.20 | 17.05 | 28.80 | 24.20 | 23.36 | 23.32 | 29.36 | 29.32 | 23.98 | 23.98 | |
| HT20 | MCS0 | 1 | 52 | 5260 | 18.20 | 18.00 | 31.20 | 25.60 | 23.60 | 23.55 | 29.60 | 29.55 | 23.98 | 23.98 | |
| HT20 | MCS0 | 1 | 60 | 5300 | 18.15 | 18.05 | 34.20 | 26.00 | 23.59 | 23.56 | 29.59 | 29.56 | 23.98 | 23.98 | |
| HT20 | MCS0 | 1 | 64 | 5320 | 18.10 | 18.00 | 27.60 | 22.90 | 23.58 | 23.55 | 29.58 | 29.55 | 23.98 | 23.98 | |
| HT40 | MCS0 | 1 | 54 | 5270 | 36.20 | 36.20 | 49.86 | 43.38 | 23.98 | 23.98 | 30.00 | 30.00 | 23.98 | 23.98 | |
| HT40 | MCS0 | 1 | 62 | 5310 | 36.30 | 36.10 | 44.46 | 42.48 | 23.98 | 23.98 | 30.00 | 30.00 | 23.98 | 23.98 | |
| VHT20 | MCS0 | 1 | 52 | 5260 | 18.15 | 18.10 | 33.80 | 26.40 | 23.59 | 23.58 | 29.59 | 29.58 | 23.98 | 23.98 | |
| VHT20 | MCS0 | 1 | 60 | 5300 | 18.20 | 18.05 | 30.80 | 27.50 | 23.60 | 23.56 | 29.60 | 29.56 | 23.98 | 23.98 | |
| VHT20 | MCS0 | 1 | 64 | 5320 | 18.00 | 17.95 | 25.80 | 22.80 | 23.55 | 23.54 | 29.55 | 29.54 | 23.98 | 23.98 | |
| VHT40 | MCS0 | 1 | 54 | 5270 | 36.20 | 36.20 | 45.36 | 42.48 | 23.98 | 23.98 | 30.00 | 30.00 | 23.98 | 23.98 | |
| VHT40 | MCS0 | 1 | 62 | 5310 | 36.20 | 36.10 | 45.90 | 45.36 | 23.98 | 23.98 | 30.00 | 30.00 | 23.98 | 23.98 | |
| VHT80 | MCS0 | 1 | 58 | 5290 | 75.12 | 74.76 | 82.24 | 81.60 | 23.98 | 23.98 | 30.00 | 30.00 | 23.98 | 23.98 | |
| 11a | 6Mbps | 2 | 52 | 5260 | 17.20 | 17.15 | 31.10 | 29.70 | 23.34 | | 29.34 | | 23.98 | | |
| 11a | 6Mbps | 2 | 60 | 5300 | 17.25 | 17.30 | 32.50 | 31.70 | 23.37 | | 29.37 | | 23.98 | | |
| 11a | 6Mbps | 2 | 64 | 5320 | 17.20 | 17.10 | 29.00 | 26.30 | 23.33 | | 29.33 | | 23.98 | | |
| HT20 | MCS0 | 2 | 52 | 5260 | 18.10 | 18.00 | 29.70 | 24.80 | 23.55 | | 29.55 | | 23.98 | | |
| HT20 | MCS0 | 2 | 60 | 5300 | 18.25 | 18.10 | 33.30 | 28.20 | 23.58 | | 29.58 | | 23.98 | | |
| HT20 | MCS0 | 2 | 64 | 5320 | 18.15 | 17.95 | 28.90 | 22.70 | 23.54 | | 29.54 | | 23.98 | | |
| HT40 | MCS0 | 2 | 54 | 5270 | 36.30 | 36.20 | 45.90 | 45.00 | 23.98 | | 30.00 | | 23.98 | | |
| HT40 | MCS0 | 2 | 62 | 5310 | 36.30 | 36.20 | 49.68 | 47.52 | 23.98 | | 30.00 | | 23.98 | | |
| VHT20 | MCS0 | 2 | 52 | 5260 | 18.15 | 18.05 | 34.00 | 24.60 | 23.56 | | 29.56 | | 23.98 | | |
| VHT20 | MCS0 | 2 | 60 | 5300 | 18.15 | 18.00 | 33.70 | 24.80 | 23.55 | | 29.55 | | 23.98 | | |
| VHT20 | MCS0 | 2 | 64 | 5320 | 18.15 | 18.00 | 29.40 | 25.50 | 23.55 | | 29.55 | | 23.98 | | |
| VHT40 | MCS0 | 2 | 54 | 5270 | 36.20 | 36.20 | 42.66 | 48.42 | 23.98 | | 30.00 | | 23.98 | | |
| VHT40 | MCS0 | 2 | 62 | 5310 | 36.20 | 36.10 | 49.14 | 44.64 | 23.98 | | 30.00 | | 23.98 | | |
| VHT80 | MCS0 | 2 | 58 | 5290 | 75.12 | 75.00 | 81.60 | 84.80 | 23.98 | | 30.00 | | 23.98 | | |

Report Number : FR640145D

## ***TEST RESULTS DATA***
## ***Power Spectral Density***

| Band II | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | 52 | 5260 | 0.22 | 0.25 | 6.00 | 5.86 | | 11.00 | 11.00 | -1.00 | -7.60 | | Pass |
| 11a | 6Mbps | 1 | 60 | 5300 | 0.22 | 0.25 | 5.79 | 5.65 | | 11.00 | 11.00 | -1.00 | -7.60 | | Pass |
| 11a | 6Mbps | 1 | 64 | 5320 | 0.22 | 0.25 | 5.64 | 5.50 | | 11.00 | 11.00 | -1.00 | -7.60 | | Pass |
| HT20 | MCS0 | 1 | 52 | 5260 | 0.24 | 0.22 | 5.78 | 5.48 | | 11.00 | 11.00 | -1.00 | -7.60 | | Pass |
| HT20 | MCS0 | 1 | 60 | 5300 | 0.24 | 0.22 | 5.42 | 5.25 | | 11.00 | 11.00 | -1.00 | -7.60 | | Pass |
| HT20 | MCS0 | 1 | 64 | 5320 | 0.24 | 0.22 | 5.46 | 5.17 | | 11.00 | 11.00 | -1.00 | -7.60 | | Pass |
| HT40 | MCS0 | 1 | 54 | 5270 | 0.48 | 0.43 | 1.13 | 0.65 | | 11.00 | 11.00 | -1.00 | -7.60 | | Pass |
| HT40 | MCS0 | 1 | 62 | 5310 | 0.48 | 0.43 | 0.24 | -0.04 | | 11.00 | 11.00 | -1.00 | -7.60 | | Pass |
| VHT20 | MCS0 | 1 | 52 | 5260 | 0.46 | 0.42 | 6.01 | 5.54 | | 11.00 | 11.00 | -1.00 | -7.60 | | Pass |
| VHT20 | MCS0 | 1 | 60 | 5300 | 0.46 | 0.42 | 5.57 | 5.46 | | 11.00 | 11.00 | -1.00 | -7.60 | | Pass |
| VHT20 | MCS0 | 1 | 64 | 5320 | 0.46 | 0.42 | 5.79 | 5.22 | | 11.00 | 11.00 | -1.00 | -7.60 | | Pass |
| VHT40 | MCS0 | 1 | 54 | 5270 | 0.48 | 0.48 | 0.97 | 0.70 | | 11.00 | 11.00 | -1.00 | -7.60 | | Pass |
| VHT40 | MCS0 | 1 | 62 | 5310 | 0.48 | 0.48 | 0.30 | -0.02 | | 11.00 | 11.00 | -1.00 | -7.60 | | Pass |
| VHT80 | MCS0 | 1 | 58 | 5290 | 0.67 | 0.67 | -4.48 | -4.57 | | 11.00 | 11.00 | -1.00 | -7.60 | | Pass |
| 11a | 6Mbps | 2 | 52 | 5260 | 0.24 | 0.22 | | | 7.80 | 11.00 | | -0.68 | | | Pass |
| 11a | 6Mbps | 2 | 60 | 5300 | 0.24 | 0.22 | | | 6.93 | 11.00 | | -0.68 | | | Pass |
| 11a | 6Mbps | 2 | 64 | 5320 | 0.24 | 0.22 | | | 7.01 | 11.00 | | -0.68 | | | Pass |
| HT20 | MCS0 | 2 | 52 | 5260 | 0.22 | 0.22 | | | 6.72 | 11.00 | | -0.68 | | | Pass |
| HT20 | MCS0 | 2 | 60 | 5300 | 0.22 | 0.22 | | | 6.58 | 11.00 | | -0.68 | | | Pass |
| HT20 | MCS0 | 2 | 64 | 5320 | 0.22 | 0.22 | | | 7.22 | 11.00 | | -0.68 | | | Pass |
| HT40 | MCS0 | 2 | 54 | 5270 | 0.43 | 0.52 | | | 1.48 | 11.00 | | -0.68 | | | Pass |
| HT40 | MCS0 | 2 | 62 | 5310 | 0.43 | 0.52 | | | 1.58 | 11.00 | | -0.68 | | | Pass |
| VHT20 | MCS0 | 2 | 52 | 5260 | 0.42 | 0.46 | | | 7.68 | 11.00 | | -0.68 | | | Pass |
| VHT20 | MCS0 | 2 | 60 | 5300 | 0.42 | 0.46 | | | 6.80 | 11.00 | | -0.68 | | | Pass |
| VHT20 | MCS0 | 2 | 64 | 5320 | 0.42 | 0.46 | | | 7.38 | 11.00 | | -0.68 | | | Pass |
| VHT40 | MCS0 | 2 | 54 | 5270 | 0.43 | 0.43 | | | 1.60 | 11.00 | | -0.68 | | | Pass |
| VHT40 | MCS0 | 2 | 62 | 5310 | 0.43 | 0.43 | | | 0.74 | 11.00 | | -0.68 | | | Pass |
| VHT80 | MCS0 | 2 | 58 | 5290 | 0.67 | 0.67 | | | -2.65 | 11.00 | | -0.68 | | | Pass |

Report Number : FR640145D

## ***TEST RESULTS DATA***
## ***Average Power Table***

| FCC Band III | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | 1 | 100 | 5500 | 0.22 | 0.25 | 16.77 | 16.64 | | 23.98 | 23.98 | -0.10 | -7.80 | | Pass |
| 11a | 6Mbps | 1 | 116 | 5580 | 0.22 | 0.25 | 16.74 | 16.59 | | 23.98 | 23.98 | -0.10 | -7.80 | | Pass |
| 11a | 6Mbps | 1 | 140 | 5700 | 0.22 | 0.25 | 15.97 | 15.62 | | 23.98 | 23.98 | -0.10 | -7.80 | | Pass |
| HT20 | MCS0 | 1 | 100 | 5500 | 0.24 | 0.22 | 16.56 | 16.38 | | 23.98 | 23.98 | -0.10 | -7.80 | | Pass |
| HT20 | MCS0 | 1 | 116 | 5580 | 0.24 | 0.22 | 16.62 | 16.39 | | 23.98 | 23.98 | -0.10 | -7.80 | | Pass |
| HT20 | MCS0 | 1 | 140 | 5700 | 0.24 | 0.22 | 15.95 | 15.40 | | 23.98 | 23.98 | -0.10 | -7.80 | | Pass |
| HT40 | MCS0 | 1 | 102 | 5510 | 0.48 | 0.43 | 14.00 | 13.59 | | 23.98 | 23.98 | -0.10 | -7.80 | | Pass |
| HT40 | MCS0 | 1 | 110 | 5550 | 0.48 | 0.43 | 14.70 | 14.73 | | 23.98 | 23.98 | -0.10 | -7.80 | | Pass |
| HT40 | MCS0 | 1 | 134 | 5670 | 0.48 | 0.43 | 14.66 | 14.09 | | 23.98 | 23.98 | -0.10 | -7.80 | | Pass |
| VHT20 | MCS0 | 1 | 100 | 5500 | 0.46 | 0.42 | 16.59 | 16.40 | | 23.98 | 23.98 | -0.10 | -7.80 | | Pass |
| VHT20 | MCS0 | 1 | 116 | 5580 | 0.46 | 0.42 | 16.46 | 16.35 | | 23.98 | 23.98 | -0.10 | -7.80 | | Pass |
| VHT20 | MCS0 | 1 | 140 | 5700 | 0.46 | 0.42 | 15.87 | 15.76 | | 23.98 | 23.98 | -0.10 | -7.80 | | Pass |
| VHT40 | MCS0 | 1 | 102 | 5510 | 0.48 | 0.48 | 13.98 | 13.68 | | 23.98 | 23.98 | -0.10 | -7.80 | | Pass |
| VHT40 | MCS0 | 1 | 110 | 5550 | 0.48 | 0.48 | 14.74 | 14.77 | | 23.98 | 23.98 | -0.10 | -7.80 | | Pass |
| VHT40 | MCS0 | 1 | 134 | 5670 | 0.48 | 0.48 | 14.56 | 14.27 | | 23.98 | 23.98 | -0.10 | -7.80 | | Pass |
| VHT80 | MCS0 | 1 | 106 | 5530 | 0.67 | 0.67 | 9.34 | 9.63 | | 23.98 | 23.98 | -0.10 | -7.80 | | Pass |
| VHT80 | MCS0 | 1 | 122 | 5610 | 0.67 | 0.67 | 14.65 | 14.52 | | 23.98 | 23.98 | -0.10 | -7.80 | | Pass |
| 11a | 6Mbps | 2 | 100 | 5500 | 0.24 | 0.22 | 16.23 | 16.03 | 19.15 | 23.98 | | -0.10 | | | Pass |
| 11a | 6Mbps | 2 | 116 | 5580 | 0.24 | 0.22 | 16.21 | 15.91 | 19.08 | 23.98 | | -0.10 | | | Pass |
| 11a | 6Mbps | 2 | 140 | 5700 | 0.24 | 0.22 | 15.43 | 15.34 | 18.40 | 23.98 | | -0.10 | | | Pass |
| HT20 | MCS0 | 2 | 100 | 5500 | 0.22 | 0.22 | 16.13 | 15.84 | 19.00 | 23.98 | | -0.10 | | | Pass |
| HT20 | MCS0 | 2 | 116 | 5580 | 0.22 | 0.22 | 15.98 | 15.67 | 18.84 | 23.98 | | -0.10 | | | Pass |
| HT20 | MCS0 | 2 | 140 | 5700 | 0.22 | 0.22 | 15.11 | 15.23 | 18.18 | 23.98 | | -0.10 | | | Pass |
| HT40 | MCS0 | 2 | 102 | 5510 | 0.43 | 0.52 | 13.59 | 13.67 | 16.64 | 23.98 | | -0.10 | | | Pass |
| HT40 | MCS0 | 2 | 110 | 5550 | 0.43 | 0.52 | 14.02 | 14.13 | 17.09 | 23.98 | | -0.10 | | | Pass |
| HT40 | MCS0 | 2 | 134 | 5670 | 0.43 | 0.52 | 13.99 | 13.90 | 16.96 | 23.98 | | -0.10 | | | Pass |
| VHT20 | MCS0 | 2 | 100 | 5500 | 0.42 | 0.46 | 16.14 | 15.77 | 18.97 | 23.98 | | -0.10 | | | Pass |
| VHT20 | MCS0 | 2 | 116 | 5580 | 0.42 | 0.46 | 15.99 | 15.68 | 18.85 | 23.98 | | -0.10 | | | Pass |
| VHT20 | MCS0 | 2 | 140 | 5700 | 0.42 | 0.46 | 15.25 | 15.21 | 18.24 | 23.98 | | -0.10 | | | Pass |
| VHT40 | MCS0 | 2 | 102 | 5510 | 0.43 | 0.43 | 13.62 | 13.62 | 16.63 | 23.98 | | -0.10 | | | Pass |
| VHT40 | MCS0 | 2 | 110 | 5550 | 0.43 | 0.43 | 14.11 | 13.99 | 17.06 | 23.98 | | -0.10 | | | Pass |
| VHT40 | MCS0 | 2 | 134 | 5670 | 0.43 | 0.43 | 13.93 | 13.73 | 16.84 | 23.98 | | -0.10 | | | Pass |
| VHT80 | MCS0 | 2 | 106 | 5530 | 0.67 | 0.67 | 9.16 | 9.54 | 12.36 | 23.98 | | -0.10 | | | Pass |
| VHT80 | MCS0 | 2 | 122 | 5610 | 0.67 | 0.67 | 14.49 | 13.88 | 17.21 | 23.98 | | -0.10 | | | Pass |

Report Number : FR640145D

## *TEST RESULTS DATA*
## *26dB and 99% OBW*

| Band III | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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) | | Note |
| | | | | | Ant 1 | Ant 2 | Ant 1 | Ant 2 | Ant 1 | Ant 2 | Ant 1 | Ant 2 | Ant 1 | Ant 2 | |
| 11a | 6Mbps | 1 | 100 | 5500 | 17.25 | 17.15 | 31.30 | 31.20 | 23.37 | 23.34 | 29.37 | 29.34 | 23.98 | 23.98 | |
| 11a | 6Mbps | 1 | 116 | 5580 | 17.75 | 17.25 | 34.00 | 32.30 | 23.49 | 23.37 | 29.49 | 29.37 | 23.98 | 23.98 | |
| 11a | 6Mbps | 1 | 140 | 5700 | 17.25 | 17.05 | 31.60 | 27.40 | 23.37 | 23.32 | 29.37 | 29.32 | 23.98 | 23.98 | |
| HT20 | MCS0 | 1 | 100 | 5500 | 18.20 | 18.15 | 32.50 | 31.30 | 23.60 | 23.59 | 29.60 | 29.59 | 23.98 | 23.98 | |
| HT20 | MCS0 | 1 | 116 | 5580 | 18.45 | 18.20 | 31.60 | 31.70 | 23.66 | 23.60 | 29.66 | 29.60 | 23.98 | 23.98 | |
| HT20 | MCS0 | 1 | 140 | 5700 | 18.15 | 18.00 | 26.70 | 24.10 | 23.59 | 23.55 | 29.59 | 29.55 | 23.98 | 23.98 | |
| HT40 | MCS0 | 1 | 102 | 5510 | 36.10 | 36.10 | 44.64 | 44.64 | 23.98 | 23.98 | 30.00 | 30.00 | 23.98 | 23.98 | |
| HT40 | MCS0 | 1 | 110 | 5550 | 36.40 | 36.20 | 45.18 | 43.02 | 23.98 | 23.98 | 30.00 | 30.00 | 23.98 | 23.98 | |
| HT40 | MCS0 | 1 | 134 | 5670 | 36.30 | 36.10 | 48.96 | 49.32 | 23.98 | 23.98 | 30.00 | 30.00 | 23.98 | 23.98 | |
| VHT20 | MCS0 | 1 | 100 | 5500 | 18.25 | 18.05 | 32.40 | 24.90 | 23.61 | 23.56 | 29.61 | 29.56 | 23.98 | 23.98 | |
| VHT20 | MCS0 | 1 | 116 | 5580 | 18.35 | 18.15 | 32.90 | 28.40 | 23.64 | 23.59 | 29.64 | 29.59 | 23.98 | 23.98 | |
| VHT20 | MCS0 | 1 | 140 | 5700 | 18.15 | 18.00 | 29.10 | 26.10 | 23.59 | 23.55 | 29.59 | 29.55 | 23.98 | 23.98 | |
| VHT40 | MCS0 | 1 | 102 | 5510 | 36.30 | 36.10 | 46.44 | 44.82 | 23.98 | 23.98 | 30.00 | 30.00 | 23.98 | 23.98 | |
| VHT40 | MCS0 | 1 | 110 | 5550 | 36.30 | 36.00 | 50.04 | 45.54 | 23.98 | 23.98 | 30.00 | 30.00 | 23.98 | 23.98 | |
| VHT40 | MCS0 | 1 | 134 | 5670 | 36.30 | 36.10 | 45.54 | 46.98 | 23.98 | 23.98 | 30.00 | 30.00 | 23.98 | 23.98 | |
| VHT80 | MCS0 | 1 | 106 | 5530 | 75.36 | 75.00 | 82.88 | 80.96 | 23.98 | 23.98 | 30.00 | 30.00 | 23.98 | 23.98 | |
| VHT80 | MCS0 | 1 | 122 | 5610 | 75.60 | 75.36 | 90.88 | 88.64 | 23.98 | 23.98 | 30.00 | 30.00 | 23.98 | 23.98 | |
| 11a | 6Mbps | 2 | 100 | 5500 | 17.70 | 17.35 | 33.80 | 32.80 | 23.39 | | 29.39 | | 23.98 | | |
| 11a | 6Mbps | 2 | 116 | 5580 | 17.65 | 17.25 | 33.80 | 32.00 | 23.37 | | 29.37 | | 23.98 | | |
| 11a | 6Mbps | 2 | 140 | 5700 | 17.35 | 17.10 | 32.10 | 28.90 | 23.33 | | 29.33 | | 23.98 | | |
| HT20 | MCS0 | 2 | 100 | 5500 | 18.35 | 18.25 | 35.00 | 32.60 | 23.61 | | 29.61 | | 23.98 | | |
| HT20 | MCS0 | 2 | 116 | 5580 | 18.45 | 18.15 | 34.80 | 25.30 | 23.59 | | 29.59 | | 23.98 | | |
| HT20 | MCS0 | 2 | 140 | 5700 | 18.30 | 18.15 | 31.10 | 30.40 | 23.59 | | 29.59 | | 23.98 | | |
| HT40 | MCS0 | 2 | 102 | 5510 | 36.10 | 36.20 | 45.90 | 49.50 | 23.98 | | 30.00 | | 23.98 | | |
| HT40 | MCS0 | 2 | 110 | 5550 | 36.30 | 36.10 | 46.62 | 46.26 | 23.98 | | 30.00 | | 23.98 | | |
| HT40 | MCS0 | 2 | 134 | 5670 | 36.40 | 36.40 | 51.48 | 49.32 | 23.98 | | 30.00 | | 23.98 | | |
| VHT20 | MCS0 | 2 | 100 | 5500 | 18.50 | 18.20 | 35.00 | 30.90 | 23.60 | | 29.60 | | 23.98 | | |
| VHT20 | MCS0 | 2 | 116 | 5580 | 18.35 | 18.65 | 34.90 | 33.20 | 23.64 | | 29.64 | | 23.98 | | |
| VHT20 | MCS0 | 2 | 140 | 5700 | 18.30 | 18.05 | 31.60 | 24.70 | 23.56 | | 29.56 | | 23.98 | | |
| VHT40 | MCS0 | 2 | 102 | 5510 | 36.20 | 36.20 | 45.18 | 44.10 | 23.98 | | 30.00 | | 23.98 | | |
| VHT40 | MCS0 | 2 | 110 | 5550 | 36.30 | 36.10 | 43.38 | 47.52 | 23.98 | | 30.00 | | 23.98 | | |
| VHT40 | MCS0 | 2 | 134 | 5670 | 36.30 | 36.20 | 45.18 | 56.88 | 23.98 | | 30.00 | | 23.98 | | |
| VHT80 | MCS0 | 2 | 106 | 5530 | 75.24 | 75.00 | 81.60 | 80.32 | 23.98 | | 30.00 | | 23.98 | | |
| VHT80 | MCS0 | 2 | 122 | 5610 | 75.48 | 75.36 | 91.20 | 85.12 | 23.98 | | 30.00 | | 23.98 | | |

Report Number : FR640145D

## ***TEST RESULTS DATA***
## ***Power Spectral Density***

| Band III | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | 0.25 | 5.85 | 5.77 | | 11.00 | 11.00 | -0.10 | -7.80 | | Pass |
| 11a | 6Mbps | 1 | 116 | 5580 | 0.22 | 0.25 | 6.36 | 6.32 | | 11.00 | 11.00 | -0.10 | -7.80 | | Pass |
| 11a | 6Mbps | 1 | 140 | 5700 | 0.22 | 0.25 | 5.60 | 5.65 | | 11.00 | 11.00 | -0.10 | -7.80 | | Pass |
| HT20 | MCS0 | 1 | 100 | 5500 | 0.24 | 0.22 | 5.59 | 5.46 | | 11.00 | 11.00 | -0.10 | -7.80 | | Pass |
| HT20 | MCS0 | 1 | 116 | 5580 | 0.24 | 0.22 | 6.05 | 5.93 | | 11.00 | 11.00 | -0.10 | -7.80 | | Pass |
| HT20 | MCS0 | 1 | 140 | 5700 | 0.24 | 0.22 | 5.21 | 5.32 | | 11.00 | 11.00 | -0.10 | -7.80 | | Pass |
| HT40 | MCS0 | 1 | 102 | 5510 | 0.48 | 0.43 | 0.18 | -0.15 | | 11.00 | 11.00 | -0.10 | -7.80 | | Pass |
| HT40 | MCS0 | 1 | 110 | 5550 | 0.48 | 0.43 | 1.06 | 0.82 | | 11.00 | 11.00 | -0.10 | -7.80 | | Pass |
| HT40 | MCS0 | 1 | 134 | 5670 | 0.48 | 0.43 | 1.28 | 0.82 | | 11.00 | 11.00 | -0.10 | -7.80 | | Pass |
| VHT20 | MCS0 | 1 | 100 | 5500 | 0.46 | 0.42 | 5.75 | 5.46 | | 11.00 | 11.00 | -0.10 | -7.80 | | Pass |
| VHT20 | MCS0 | 1 | 116 | 5580 | 0.46 | 0.42 | 6.37 | 6.12 | | 11.00 | 11.00 | -0.10 | -7.80 | | Pass |
| VHT20 | MCS0 | 1 | 140 | 5700 | 0.46 | 0.42 | 5.37 | 5.10 | | 11.00 | 11.00 | -0.10 | -7.80 | | Pass |
| VHT40 | MCS0 | 1 | 102 | 5510 | 0.48 | 0.48 | 0.15 | -0.13 | | 11.00 | 11.00 | -0.10 | -7.80 | | Pass |
| VHT40 | MCS0 | 1 | 110 | 5550 | 0.48 | 0.48 | 0.98 | 0.73 | | 11.00 | 11.00 | -0.10 | -7.80 | | Pass |
| VHT40 | MCS0 | 1 | 134 | 5670 | 0.48 | 0.48 | 1.13 | 0.80 | | 11.00 | 11.00 | -0.10 | -7.80 | | Pass |
| VHT80 | MCS0 | 1 | 106 | 5530 | 0.67 | 0.67 | -7.82 | -7.27 | | 11.00 | 11.00 | -0.10 | -7.80 | | Pass |
| VHT80 | MCS0 | 1 | 122 | 5610 | 0.67 | 0.67 | -2.09 | -2.00 | | 11.00 | 11.00 | -0.10 | -7.80 | | Pass |
| 11a | 6Mbps | 2 | 100 | 5500 | 0.24 | 0.22 | | | 7.88 | 11.00 | | -0.11 | | | Pass |
| 11a | 6Mbps | 2 | 116 | 5580 | 0.24 | 0.22 | | | 8.10 | 11.00 | | -0.11 | | | Pass |
| 11a | 6Mbps | 2 | 140 | 5700 | 0.24 | 0.22 | | | 6.60 | 11.00 | | -0.11 | | | Pass |
| HT20 | MCS0 | 2 | 100 | 5500 | 0.22 | 0.22 | | | 7.27 | 11.00 | | -0.11 | | | Pass |
| HT20 | MCS0 | 2 | 116 | 5580 | 0.22 | 0.22 | | | 8.16 | 11.00 | | -0.11 | | | Pass |
| HT20 | MCS0 | 2 | 140 | 5700 | 0.22 | 0.22 | | | 6.84 | 11.00 | | -0.11 | | | Pass |
| HT40 | MCS0 | 2 | 102 | 5510 | 0.43 | 0.52 | | | 0.66 | 11.00 | | -0.11 | | | Pass |
| HT40 | MCS0 | 2 | 110 | 5550 | 0.43 | 0.52 | | | 1.23 | 11.00 | | -0.11 | | | Pass |
| HT40 | MCS0 | 2 | 134 | 5670 | 0.43 | 0.52 | | | 1.91 | 11.00 | | -0.11 | | | Pass |
| VHT20 | MCS0 | 2 | 100 | 5500 | 0.42 | 0.46 | | | 6.79 | 11.00 | | -0.11 | | | Pass |
| VHT20 | MCS0 | 2 | 116 | 5580 | 0.42 | 0.46 | | | 8.10 | 11.00 | | -0.11 | | | Pass |
| VHT20 | MCS0 | 2 | 140 | 5700 | 0.42 | 0.46 | | | 6.72 | 11.00 | | -0.11 | | | Pass |
| VHT40 | MCS0 | 2 | 102 | 5510 | 0.43 | 0.43 | | | 0.81 | 11.00 | | -0.11 | | | Pass |
| VHT40 | MCS0 | 2 | 110 | 5550 | 0.43 | 0.43 | | | 1.99 | 11.00 | | -0.11 | | | Pass |
| VHT40 | MCS0 | 2 | 134 | 5670 | 0.43 | 0.43 | | | 1.49 | 11.00 | | -0.11 | | | Pass |
| VHT80 | MCS0 | 2 | 106 | 5530 | 0.67 | 0.67 | | | -8.04 | 11.00 | | -0.11 | | | Pass |
| VHT80 | MCS0 | 2 | 122 | 5610 | 0.67 | 0.67 | | | -1.47 | 11.00 | | -0.11 | | | Pass |

***TEST RESULTS DATA***
***26dB and 99% OBW***

| Straddle Channel | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | 99% Bandwidth (MHz) | | Emission Bandwidth (MHz) | | IC 99% Bandwidth Power Limit (dBm) | | IC 99% Bandwidth EIRP Limit (dBm) | | FCC 26dB Bandwidth Power Limit (dBm) | | Note |
| | | | | | Ant 1 | Ant 2 | Ant 1 | Ant 2 | Ant 1 | Ant 2 | Ant 1 | Ant 2 | Ant 1 | Ant 2 | |
| 11a | 6Mbps | 1 | 144 | 5720 | 17.15 | 17.05 | 21.80 | 23.48 | - | - | - | - | - | - | |
| | | | | NII-2C | 13.50 | 13.50 | 19.20 | 20.90 | 22.30 | 22.30 | 28.30 | 28.30 | 23.83 | 23.98 | |
| | | | | NII-3 | 3.65 | 3.55 | 2.60 | 2.58 | 22.62 | 22.50 | 28.62 | 28.50 | - | - | |
| HT20 | MCS0 | 1 | 144 | 5720 | 18.15 | 18.00 | 19.08 | 18.78 | - | - | - | - | - | - | |
| | | | | NII-2C | 14.05 | 14.00 | 16.50 | 16.20 | 22.48 | 22.46 | 28.48 | 28.46 | 23.17 | 23.10 | |
| | | | | NII-3 | 4.10 | 4.00 | 2.58 | 2.58 | 23.13 | 23.02 | 29.13 | 29.02 | - | - | |
| HT40 | MCS0 | 1 | 142 | 5710 | 36.30 | 36.10 | 41.18 | 41.86 | - | - | - | - | - | - | |
| | | | | NII-2C | 33.20 | 33.10 | 38.58 | 39.30 | 23.98 | 23.98 | 30.00 | 30.00 | 23.98 | 23.98 | |
| | | | | NII-3 | 3.10 | 3.00 | 2.60 | 2.56 | 21.91 | 21.77 | 27.91 | 27.77 | - | - | |
| VHT20 | MCS0 | 1 | 144 | 5720 | 18.10 | 18.00 | 19.78 | 22.78 | - | - | - | - | - | - | |
| | | | | NII-2C | 14.00 | 14.00 | 17.20 | 20.20 | 22.46 | 22.46 | 28.46 | 28.46 | 23.36 | 23.98 | |
| | | | | NII-3 | 4.10 | 4.00 | 2.58 | 2.58 | 23.13 | 23.02 | 29.13 | 29.02 | - | - | |
| VHT40 | MCS0 | 1 | 142 | 5710 | 36.30 | 36.20 | 41.36 | 42.98 | - | - | - | - | - | - | |
| | | | | NII-2C | 33.20 | 33.20 | 38.76 | 40.38 | 23.98 | 23.98 | 30.00 | 30.00 | 23.98 | 23.98 | |
| | | | | NII-3 | 3.10 | 3.00 | 2.60 | 2.60 | 21.91 | 21.77 | 27.91 | 27.77 | - | - | |
| VHT80 | MCS0 | 1 | 138 | 5690 | 75.48 | 75.36 | 81.68 | 79.52 | - | - | - | - | - | - | |
| | | | | NII-2C | 72.92 | 72.80 | 79.16 | 76.92 | 23.98 | 23.98 | 30.00 | 30.00 | 23.98 | 23.98 | |
| | | | | NII-3 | 2.56 | 2.56 | 2.52 | 2.60 | 21.08 | 21.08 | 27.08 | 27.08 | - | - | |
| 11a | 6Mbps | 2 | 144 | 5720 | 17.20 | 17.05 | 20.14 | 20.02 | - | | - | | - | | |
| | | | | NII-2C | 13.6 | 13.55 | 17.5 | 17.4 | 22.32 | | 28.32 | | 23.41 | | |
| | | | | NII-3 | 3.6 | 3.5 | 2.64 | 2.62 | 22.44 | | 28.44 | | 15.18 | | |
| HT20 | MCS0 | 2 | 144 | 5720 | 18.15 | 18.00 | 22.14 | 18.70 | - | | - | | - | | |
| | | | | NII-2C | 14.05 | 14 | 19.5 | 16.1 | 22.46 | | 28.46 | | 23.07 | | |
| | | | | NII-3 | 4.1 | 4 | 2.64 | 2.6 | 23.02 | | 29.02 | | 15.15 | | |
| HT40 | MCS0 | 2 | 142 | 5710 | 36.30 | 36.20 | 44.42 | 46.58 | - | | - | | - | | |
| | | | | NII-2C | 33.2 | 33.1 | 41.82 | 43.98 | 23.98 | | 30.00 | | 23.98 | | |
| | | | | NII-3 | 3.1 | 3.1 | 2.6 | 2.6 | 21.91 | | 27.91 | | 15.15 | | |
| VHT20 | MCS0 | 2 | 144 | 5720 | 18.25 | 18.00 | 21.04 | 18.82 | - | | - | | - | | |
| | | | | NII-2C | 14.05 | 14 | 18.4 | 16.2 | 22.46 | | 28.46 | | 23.10 | | |
| | | | | NII-3 | 4.2 | 4 | 2.64 | 2.62 | 23.02 | | 29.02 | | 15.18 | | |
| VHT40 | MCS0 | 2 | 142 | 5710 | 36.30 | 36.30 | 41.18 | 40.64 | - | | - | | - | | |
| | | | | NII-2C | 33.2 | 33.3 | 38.58 | 38.04 | 23.98 | | 30.00 | | 23.98 | | |
| | | | | NII-3 | 3.1 | 3 | 2.6 | 2.6 | 21.77 | | 27.77 | | 15.15 | | |
| VHT80 | MCS0 | 2 | 138 | 5690 | 75.36 | 75.36 | 93.92 | 78.56 | - | | - | | - | | |
| | | | | NII-2C | 72.8 | 72.8 | 91.32 | 75.96 | 23.98 | | 30.00 | | 23.98 | | |
| | | | | NII-3 | 2.56 | 2.56 | 2.6 | 2.6 | 21.08 | | 27.08 | | 15.15 | | |

## *TEST RESULTS DATA*
## *Average Power Table*

| FCC Straddle Channel | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | 1 | 144 | 5720 | 0.22 | 0.25 | 14.97 | 14.64 | | - | - | -0.10 | -7.80 | | - |
| | | | | NII-2C | 0.22 | 0.25 | 14.27 | 13.95 | | 23.83 | 23.98 | -0.10 | -7.80 | | Pass |
| | | | | NII-3 | 0.22 | 0.25 | 6.72 | 6.30 | | - | - | -0.10 | -7.80 | | Pass |
| HT20 | MCS0 | 1 | 144 | 5720 | 0.24 | 0.22 | 14.72 | 14.29 | | - | - | -0.10 | -7.80 | | - |
| | | | | NII-2C | 0.24 | 0.22 | 13.97 | 13.53 | | 23.17 | 23.10 | -0.10 | -7.80 | | Pass |
| | | | | NII-3 | 0.24 | 0.22 | 6.75 | 6.32 | | - | - | -0.10 | -7.80 | | Pass |
| HT40 | MCS0 | 1 | 142 | 5710 | 0.48 | 0.43 | 12.82 | 12.34 | | - | - | -0.10 | -7.80 | | - |
| | | | | NII-2C | 0.48 | 0.43 | 12.60 | 12.12 | | 23.98 | 23.98 | -0.10 | -7.80 | | Pass |
| | | | | NII-3 | 0.48 | 0.43 | -0.25 | -0.72 | | - | - | -0.10 | -7.80 | | Pass |
| VHT20 | MCS0 | 1 | 144 | 5720 | 0.46 | 0.42 | 14.42 | 14.36 | | - | - | -0.10 | -7.80 | | - |
| | | | | NII-2C | 0.46 | 0.42 | 13.66 | 13.61 | | 23.36 | 23.98 | -0.10 | -7.80 | | Pass |
| | | | | NII-3 | 0.46 | 0.42 | 6.48 | 6.34 | | - | - | -0.10 | -7.80 | | Pass |
| VHT40 | MCS0 | 1 | 142 | 5710 | 0.48 | 0.48 | 12.70 | 12.62 | | - | - | -0.10 | -7.80 | | - |
| | | | | NII-2C | 0.48 | 0.48 | 12.48 | 12.41 | | 23.98 | 23.98 | -0.10 | -7.80 | | Pass |
| | | | | NII-3 | 0.48 | 0.48 | -0.41 | -0.62 | | - | - | -0.10 | -7.80 | | Pass |
| VHT80 | MCS0 | 1 | 138 | 5690 | 0.67 | 0.67 | 13.68 | 13.27 | | - | - | -0.10 | -7.80 | | - |
| | | | | NII-2C | 0.67 | 0.67 | 13.61 | 13.20 | | 23.98 | 23.98 | -0.10 | -7.80 | | Pass |
| | | | | NII-3 | 0.67 | 0.67 | -4.18 | -4.93 | | - | - | -0.10 | -7.80 | | Pass |
| 11a | 6Mbps | 2 | 144 | 5720 | 0.24 | 0.22 | 13.94 | 14.04 | 17.00 | - | | -0.10 | | | - |
| | | | | NII-2C | 0.24 | 0.22 | 13.22 | 13.31 | 16.28 | 23.41 | | -0.10 | | | Pass |
| | | | | NII-3 | 0.24 | 0.22 | 5.75 | 5.91 | 8.84 | 15.18 | | -0.10 | | | Pass |
| HT20 | MCS0 | 2 | 144 | 5720 | 0.22 | 0.22 | 14.15 | 13.83 | 17.00 | - | | -0.10 | | | - |
| | | | | NII-2C | 0.22 | 0.22 | 13.40 | 13.07 | 16.25 | 23.07 | | -0.10 | | | Pass |
| | | | | NII-3 | 0.22 | 0.22 | 6.17 | 5.88 | 9.04 | 15.15 | | -0.10 | | | Pass |
| HT40 | MCS0 | 2 | 142 | 5710 | 0.43 | 0.52 | 12.44 | 12.17 | 15.32 | - | | -0.10 | | | - |
| | | | | NII-2C | 0.43 | 0.52 | 12.22 | 11.94 | 15.09 | 23.98 | | -0.10 | | | Pass |
| | | | | NII-3 | 0.43 | 0.52 | -0.59 | -0.73 | 2.35 | 15.15 | | -0.10 | | | Pass |
| VHT20 | MCS0 | 2 | 144 | 5720 | 0.42 | 0.46 | 14.13 | 13.67 | 16.92 | - | | -0.10 | | | - |
| | | | | NII-2C | 0.42 | 0.46 | 13.39 | 12.88 | 16.15 | 23.10 | | -0.10 | | | Pass |
| | | | | NII-3 | 0.42 | 0.46 | 6.10 | 5.88 | 9.00 | 15.18 | | -0.10 | | | Pass |
| VHT40 | MCS0 | 2 | 142 | 5710 | 0.43 | 0.43 | 12.50 | 12.15 | 15.34 | - | | -0.10 | | | - |
| | | | | NII-2C | 0.43 | 0.43 | 12.28 | 11.93 | 15.12 | 23.98 | | -0.10 | | | Pass |
| | | | | NII-3 | 0.43 | 0.43 | -0.61 | -0.97 | 2.22 | 15.15 | | -0.10 | | | Pass |
| VHT80 | MCS0 | 2 | 138 | 5690 | 0.67 | 0.67 | 13.24 | 12.78 | 16.03 | - | | -0.10 | | | - |
| | | | | NII-2C | 0.67 | 0.67 | 13.17 | 12.71 | 15.96 | 23.98 | | -0.10 | | | Pass |
| | | | | NII-3 | 0.67 | 0.67 | -4.69 | -5.09 | -1.88 | 15.15 | | -0.10 | | | Pass |

Report Number : FR640145D

## ***TEST RESULTS DATA***
## ***Power Spectral Density***

| Straddle Channel | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 | 144 | NII-2C | 0.22 | 0.25 | 5.69 | 4.91 | | 11.00 | 11.00 | -0.10 | -7.80 | | Pass |
| | | | | NII-3 | 0.22 | 0.25 | 5.69 | 4.91 | | 30.00 | 30.00 | -0.10 | -7.80 | | Pass |
| HT20 | MCS0 | 1 | 144 | NII-2C | 0.24 | 0.22 | 5.35 | 4.97 | | 11.00 | 11.00 | -0.10 | -7.80 | | Pass |
| | | | | NII-3 | 0.24 | 0.22 | 5.35 | 4.97 | | 30.00 | 30.00 | -0.10 | -7.80 | | Pass |
| HT40 | MCS0 | 1 | 142 | NII-2C | 0.48 | 0.43 | -0.24 | 0.45 | | 11.00 | 11.00 | -0.10 | -7.80 | | Pass |
| | | | | NII-3 | 0.48 | 0.43 | -0.24 | 0.45 | | 30.00 | 30.00 | -0.10 | -7.80 | | Pass |
| VHT20 | MCS0 | 1 | 144 | NII-2C | 0.46 | 0.42 | 5.45 | 4.69 | | 11.00 | 11.00 | -0.10 | -7.80 | | Pass |
| | | | | NII-3 | 0.46 | 0.42 | 5.45 | 4.69 | | 30.00 | 30.00 | -0.10 | -7.80 | | Pass |
| VHT40 | MCS0 | 1 | 142 | NII-2C | 0.48 | 0.48 | 0.50 | 0.61 | | 11.00 | 11.00 | -0.10 | -7.80 | | Pass |
| | | | | NII-3 | 0.48 | 0.48 | 0.50 | 0.61 | | 30.00 | 30.00 | -0.10 | -7.80 | | Pass |
| VHT80 | MCS0 | 1 | 138 | NII-2C | 0.67 | 0.67 | -2.70 | -2.64 | | 11.00 | 11.00 | -0.10 | -7.80 | | Pass |
| | | | | NII-3 | 0.67 | 0.67 | -2.70 | -2.64 | | 30.00 | 30.00 | -0.10 | -7.80 | | Pass |
| 11a | 6Mbps | 2 | 144 | NII-2C | 0.24 | 0.22 | | | 7.48 | 11.00 | | -0.11 | | | Pass |
| | | | | NII-3 | 0.24 | 0.22 | | | 7.48 | 30.00 | | -0.11 | | | Pass |
| HT20 | MCS0 | 2 | 144 | NII-2C | 0.22 | 0.22 | | | 6.89 | 11.00 | | -0.11 | | | Pass |
| | | | | NII-3 | 0.22 | 0.22 | | | 6.89 | 30.00 | | -0.11 | | | Pass |
| HT40 | MCS0 | 2 | 142 | NII-2C | 0.43 | 0.52 | | | 1.64 | 11.00 | | -0.11 | | | Pass |
| | | | | NII-3 | 0.43 | 0.52 | | | 1.64 | 30.00 | | -0.11 | | | Pass |
| VHT20 | MCS0 | 2 | 144 | NII-2C | 0.42 | 0.46 | | | 6.98 | 11.00 | | -0.11 | | | Pass |
| | | | | NII-3 | 0.42 | 0.46 | | | 6.98 | 30.00 | | -0.11 | | | Pass |
| VHT40 | MCS0 | 2 | 142 | NII-2C | 0.43 | 0.43 | | | 1.19 | 11.00 | | -0.11 | | | Pass |
| | | | | NII-3 | 0.43 | 0.43 | | | 1.19 | 30.00 | | -0.11 | | | Pass |
| VHT80 | MCS0 | 2 | 138 | NII-2C | 0.67 | 0.67 | | | -1.67 | 11.00 | | -0.11 | | | Pass |
| | | | | NII-3 | 0.67 | 0.67 | | | -1.67 | 30.00 | | -0.11 | | | Pass |

## ***TEST RESULTS DATA***
## ***Frequency Stability***

| Band I | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Center Frequency (MHz) | Frequency Deviation (MHz) | Frequency Stablility (ppm) | Temperature (°C) | Voltage (V) | Note |
| 11a | 6Mbps | 1 | 36 | 5180 | 5180.050 | 0.050 | 9.65 | 20 | 3.4 | |
| 11a | 6Mbps | 1 | 36 | 5180 | 5180.050 | 0.050 | 9.65 | 20 | 4.35 | |
| 11a | 6Mbps | 1 | 36 | 5180 | 5180.050 | 0.050 | 9.65 | 20 | 3.8 | |
| 11a | 6Mbps | 1 | 36 | 5180 | 5180.050 | 0.050 | 9.65 | -30 | 3.8 | |
| 11a | 6Mbps | 1 | 36 | 5180 | 5180.050 | 0.050 | 9.65 | 50 | 3.8 | |

| Band II | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Center Frequency (MHz) | Frequency Deviation (MHz) | Frequency Stablility (ppm) | Temperature (°C) | Voltage (V) | Note |
| 11a | 6Mbps | 1 | 64 | 5320 | 5320.050 | 0.050 | 9.40 | 20 | 3.4 | |
| 11a | 6Mbps | 1 | 64 | 5320 | 5320.050 | 0.050 | 9.40 | 20 | 4.35 | |
| 11a | 6Mbps | 1 | 64 | 5320 | 5320.050 | 0.050 | 9.40 | 20 | 3.8 | |
| 11a | 6Mbps | 1 | 64 | 5320 | 5320.050 | 0.050 | 9.40 | -30 | 3.8 | |
| 11a | 6Mbps | 1 | 64 | 5320 | 5320.050 | 0.050 | 9.40 | 50 | 3.8 | |

| Band III | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Center Frequency (MHz) | Frequency Deviation (MHz) | Frequency Stablility (ppm) | Temperature (°C) | Voltage (V) | Note |
| 11a | 6Mbps | 1 | 100 | 5500 | 5499.700 | -0.300 | -54.55 | 20 | 3.4 | |
| 11a | 6Mbps | 1 | 100 | 5500 | 5500.050 | 0.050 | 9.09 | 20 | 4.35 | |
| 11a | 6Mbps | 1 | 100 | 5500 | 5500.050 | 0.050 | 9.09 | 20 | 3.8 | |
| 11a | 6Mbps | 1 | 100 | 5500 | 5500.050 | 0.050 | 9.09 | -30 | 3.8 | |
| 11a | 6Mbps | 1 | 100 | 5500 | 5500.050 | 0.050 | 9.09 | 50 | 3.8 | |

# Appendix B. Radiated Spurious Emission

| Test Engineer : | J.C. Liang, Bill Chang, and Ken Wu | Temperature : | 19~21°C |
|---|---|---|---|
| | | Relative Humidity : | 50~55% |

**Band 1 - 5150~5250MHz**

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

| WIFI Ant. | Note | Frequency | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Cable Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1+2 | | ( MHz ) | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11a CH 36 5180MHz | | 5149.25 | 53.72 | -20.28 | 74 | 45.38 | 31.58 | 10.23 | 33.47 | 100 | 118 | P | H |
| | | 5149.85 | 45.38 | -8.62 | 54 | 37.04 | 31.58 | 10.23 | 33.47 | 100 | 118 | A | H |
| | * | 5180 | 103.47 | - | - | 95.09 | 31.62 | 10.23 | 33.47 | 100 | 118 | P | H |
| | * | 5180 | 96.11 | - | - | 87.73 | 31.62 | 10.23 | 33.47 | 100 | 118 | A | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| | | 5149.1 | 51.76 | -22.24 | 74 | 43.42 | 31.58 | 10.23 | 33.47 | 198 | 166 | P | V |
| | | 5150 | 43.95 | -10.05 | 54 | 35.61 | 31.58 | 10.23 | 33.47 | 198 | 166 | A | V |
| | * | 5180 | 101.52 | - | - | 93.14 | 31.62 | 10.23 | 33.47 | 198 | 166 | P | V |
| | * | 5180 | 94.1 | - | - | 85.72 | 31.62 | 10.23 | 33.47 | 198 | 166 | A | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| 802.11a CH 44 5220MHz | | 5034.5 | 48.41 | -25.59 | 74 | 40.24 | 31.44 | 10.2 | 33.47 | 217 | 117 | P | H |
| | | 5120 | 39.65 | -14.35 | 54 | 31.36 | 31.54 | 10.22 | 33.47 | 217 | 117 | A | H |
| | * | 5220 | 104.81 | - | - | 96.38 | 31.66 | 10.24 | 33.47 | 217 | 117 | P | H |
| | * | 5220 | 96.62 | - | - | 88.19 | 31.66 | 10.24 | 33.47 | 217 | 117 | A | H |
| | | 5391.14 | 47.83 | -26.17 | 74 | 38.58 | 31.86 | 10.87 | 33.48 | 217 | 117 | P | H |
| | | 5459.01 | 39.33 | -14.67 | 54 | 30.03 | 31.94 | 10.84 | 33.48 | 217 | 117 | A | H |
| | | 5052.5 | 49.28 | -24.72 | 74 | 41.09 | 31.46 | 10.2 | 33.47 | 191 | 157 | P | V |
| | | 5087.6 | 39.69 | -14.31 | 54 | 31.45 | 31.5 | 10.21 | 33.47 | 191 | 157 | A | V |
| | * | 5220 | 101.54 | - | - | 93.11 | 31.66 | 10.24 | 33.47 | 191 | 157 | P | V |
| | * | 5220 | 93.96 | - | - | 85.53 | 31.66 | 10.24 | 33.47 | 191 | 157 | A | V |
| | | 5405.22 | 48.13 | -25.87 | 74 | 38.86 | 31.88 | 10.87 | 33.48 | 191 | 157 | P | V |
| | | 5458.35 | 39.19 | -14.81 | 54 | 29.89 | 31.94 | 10.84 | 33.48 | 191 | 157 | A | V |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **802.11a CH 48 5240MHz** | | 5010.8 | 49.7 | -24.3 | 74 | 41.56 | 31.42 | 10.19 | 33.47 | 100 | 118 | P | H |
| | | 5114.15 | 39.8 | -14.2 | 54 | 31.51 | 31.54 | 10.22 | 33.47 | 100 | 118 | A | H |
| | * | 5240 | 104.74 | - | - | 96.16 | 31.68 | 10.37 | 33.47 | 100 | 118 | P | H |
| | * | 5240 | 97.12 | - | - | 88.54 | 31.68 | 10.37 | 33.47 | 100 | 118 | A | H |
| | | 5439.32 | 47.85 | -26.15 | 74 | 38.57 | 31.92 | 10.84 | 33.48 | 100 | 118 | P | H |
| | | 5458.02 | 39.16 | -14.84 | 54 | 29.86 | 31.94 | 10.84 | 33.48 | 100 | 118 | A | H |
| | | 5073.95 | 49.53 | -24.47 | 74 | 41.29 | 31.5 | 10.21 | 33.47 | 155 | 158 | P | V |
| | | 5084.15 | 39.7 | -14.3 | 54 | 31.46 | 31.5 | 10.21 | 33.47 | 155 | 158 | A | V |
| | * | 5240 | 101.76 | - | - | 93.18 | 31.68 | 10.37 | 33.47 | 155 | 158 | P | V |
| | * | 5240 | 93.92 | - | - | 85.34 | 31.68 | 10.37 | 33.47 | 155 | 158 | A | V |
| | | 5449.44 | 48.09 | -25.91 | 74 | 38.79 | 31.94 | 10.84 | 33.48 | 155 | 158 | P | V |
| | | 5451.86 | 39.45 | -14.55 | 54 | 30.15 | 31.94 | 10.84 | 33.48 | 155 | 158 | 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 Ant. 1+2 | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11a CH 36 5180MHz | | 10360 | 49.48 | -24.52 | 74 | 62.33 | 39.79 | 14.86 | 67.5 | 100 | 0 | P | H |
| | | 15540 | 43.07 | -30.93 | 74 | 51.97 | 38.6 | 17.89 | 65.39 | 100 | 0 | P | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| | | 10360 | 56.53 | -17.47 | 74 | 69.38 | 39.79 | 14.86 | 67.5 | 112 | 377 | P | V |
| | | 10360 | 44.82 | -9.18 | 54 | 57.67 | 39.79 | 14.86 | 67.5 | 112 | 377 | A | V |
| | | 15540 | 45.48 | -28.52 | 74 | 54.38 | 38.6 | 17.89 | 65.39 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| 802.11a CH 44 5220MHz | | 10440 | 49.36 | -24.64 | 74 | 62.06 | 39.89 | 14.91 | 67.5 | 100 | 0 | P | H |
| | | 15660 | 43.55 | -30.45 | 74 | 52.75 | 38.23 | 17.94 | 65.37 | 100 | 0 | P | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| | | 10440 | 49.75 | -24.25 | 74 | 62.45 | 39.89 | 14.91 | 67.5 | 100 | 0 | P | V |
| | | 15660 | 47.39 | -26.61 | 74 | 56.59 | 38.23 | 17.94 | 65.37 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| 802.11a CH 48 5240MHz | | 10480 | 48.8 | -25.2 | 74 | 61.39 | 39.97 | 14.94 | 67.5 | 100 | 0 | P | H |
| | | 15720 | 44.12 | -29.88 | 74 | 53.48 | 38.03 | 17.97 | 65.36 | 100 | 0 | P | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| | | 10480 | 49.69 | -24.31 | 74 | 62.28 | 39.97 | 14.94 | 67.5 | 100 | 0 | P | V |
| | | 15720 | 39.37 | -34.63 | 74 | 48.73 | 38.03 | 17.97 | 65.36 | 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 Ant. 1+2 | Note | Frequency ( MHz ) | Level ( dBμV/m ) | Over Limit ( dB ) | Limit Line ( dBμV/m ) | Read Level (dBμV) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 5147.75 | 52.43 | -21.57 | 74 | 44.09 | 31.58 | 10.23 | 33.47 | 394 | 118 | P | H |
| | | 5150 | 45.8 | -8.2 | 54 | 37.46 | 31.58 | 10.23 | 33.47 | 394 | 118 | A | H |
| | * | 5180 | 103.27 | - | - | 94.89 | 31.62 | 10.23 | 33.47 | 394 | 118 | P | H |
| | * | 5180 | 95.93 | - | - | 87.55 | 31.62 | 10.23 | 33.47 | 394 | 118 | A | H |
| 802.11n | | | | | | | | | | | | | H |
| HT20 | | | | | | | | | | | | | H |
| CH 36 | | 5142.65 | 57.2 | -16.8 | 74 | 48.86 | 31.58 | 10.23 | 33.47 | 198 | 166 | P | V |
| 5180MHz | | 5149.85 | 43.54 | -10.46 | 54 | 35.2 | 31.58 | 10.23 | 33.47 | 198 | 166 | A | V |
| | * | 5180 | 101.3 | - | - | 92.92 | 31.62 | 10.23 | 33.47 | 198 | 166 | P | V |
| | * | 5180 | 93.97 | - | - | 85.59 | 31.62 | 10.23 | 33.47 | 198 | 166 | A | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | 5136.8 | 49.08 | -24.92 | 74 | 40.77 | 31.56 | 10.22 | 33.47 | 217 | 117 | P | H |
| | | 5095.55 | 39.76 | -14.24 | 54 | 31.5 | 31.52 | 10.21 | 33.47 | 217 | 117 | A | H |
| | * | 5220 | 104.95 | - | - | 96.52 | 31.66 | 10.24 | 33.47 | 217 | 117 | P | H |
| | * | 5220 | 96.92 | - | - | 88.49 | 31.66 | 10.24 | 33.47 | 217 | 117 | A | H |
| 802.11n | | 5444.6 | 48.02 | -25.98 | 74 | 38.74 | 31.92 | 10.84 | 33.48 | 217 | 117 | P | H |
| HT20 | | 5451.2 | 39.3 | -14.7 | 54 | 30 | 31.94 | 10.84 | 33.48 | 217 | 117 | A | H |
| CH 44 | | 5076.65 | 48.52 | -25.48 | 74 | 40.28 | 31.5 | 10.21 | 33.47 | 190 | 157 | P | V |
| 5220MHz | | 5085.05 | 39.78 | -14.22 | 54 | 31.54 | 31.5 | 10.21 | 33.47 | 190 | 157 | A | V |
| | * | 5220 | 100.97 | - | - | 92.54 | 31.66 | 10.24 | 33.47 | 190 | 157 | P | V |
| | * | 5220 | 93.83 | - | - | 85.4 | 31.66 | 10.24 | 33.47 | 190 | 157 | A | V |
| | | 5440.53 | 47.35 | -26.65 | 74 | 38.07 | 31.92 | 10.84 | 33.48 | 190 | 157 | P | V |
| | | 5384.32 | 39.14 | -14.86 | 54 | 29.89 | 31.86 | 10.87 | 33.48 | 190 | 157 | A | V |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 5096.75 | 48.16 | -25.84 | 74 | 39.9 | 31.52 | 10.21 | 33.47 | 100 | 118 | P | H |
| | | 5086.25 | 39.87 | -14.13 | 54 | 31.63 | 31.5 | 10.21 | 33.47 | 100 | 118 | A | H |
| | * | 5240 | 104.99 | - | - | 96.41 | 31.68 | 10.37 | 33.47 | 100 | 118 | P | H |
| | * | 5240 | 96.78 | - | - | 88.2 | 31.68 | 10.37 | 33.47 | 100 | 118 | A | H |
| **802.11n** | | 5360.34 | 47.92 | -26.08 | 74 | 38.83 | 31.82 | 10.75 | 33.48 | 100 | 118 | P | H |
| **HT20** | | 5459.01 | 39.25 | -14.75 | 54 | 29.95 | 31.94 | 10.84 | 33.48 | 100 | 118 | A | H |
| **CH 48** | | 5083.4 | 48.56 | -25.44 | 74 | 40.32 | 31.5 | 10.21 | 33.47 | 155 | 158 | P | V |
| **5240MHz** | | 5086.1 | 39.69 | -14.31 | 54 | 31.45 | 31.5 | 10.21 | 33.47 | 155 | 158 | A | V |
| | * | 5240 | 101.88 | - | - | 93.3 | 31.68 | 10.37 | 33.47 | 155 | 158 | P | V |
| | * | 5240 | 93.57 | - | - | 84.99 | 31.68 | 10.37 | 33.47 | 155 | 158 | A | V |
| | | 5444.16 | 48.18 | -25.82 | 74 | 38.9 | 31.92 | 10.84 | 33.48 | 155 | 158 | P | V |
| | | 5458.24 | 39.36 | -14.64 | 54 | 30.06 | 31.94 | 10.84 | 33.48 | 155 | 158 | 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 Ant. 1+2 | Note | Frequency ( MHz ) | Level ( dBμV/m ) | Over Limit ( dB ) | Limit Line ( dBμV/m ) | Read Level (dBμV) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 10360 | 49.4 | -24.6 | 74 | 62.25 | 39.79 | 14.86 | 67.5 | 100 | 0 | P | H |
| | | 15540 | 47.58 | -26.42 | 74 | 56.48 | 38.6 | 17.89 | 65.39 | 100 | 0 | P | H |
| 802.11n | | | | | | | | | | | | | H |
| HT20 | | | | | | | | | | | | | H |
| CH 36 | | 10360 | 47.21 | -26.79 | 74 | 60.06 | 39.79 | 14.86 | 67.5 | 100 | 0 | P | V |
| 5180MHz | | 15540 | 44.42 | -29.58 | 74 | 53.32 | 38.6 | 17.89 | 65.39 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | 10440 | 49.04 | -24.96 | 74 | 61.74 | 39.89 | 14.91 | 67.5 | 100 | 0 | P | H |
| | | 15660 | 48.43 | -25.57 | 74 | 57.63 | 38.23 | 17.94 | 65.37 | 100 | 0 | P | H |
| 802.11n | | | | | | | | | | | | | H |
| HT20 | | | | | | | | | | | | | H |
| CH 44 | | 10440 | 46.53 | -27.47 | 74 | 59.23 | 39.89 | 14.91 | 67.5 | 100 | 0 | P | V |
| 5220MHz | | 15660 | 46.27 | -27.73 | 74 | 55.47 | 38.23 | 17.94 | 65.37 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | 10480 | 51.83 | -22.17 | 74 | 64.42 | 39.97 | 14.94 | 67.5 | 166 | 233 | P | H |
| | | 10480 | 40.52 | -13.48 | 54 | 53.11 | 39.97 | 14.94 | 67.5 | 166 | 233 | A | H |
| 802.11n | | 15720 | 45.81 | -28.19 | 74 | 55.17 | 38.03 | 17.97 | 65.36 | 100 | 0 | P | H |
| HT20 | | | | | | | | | | | | | H |
| CH 48 | | 10480 | 46.73 | -27.27 | 74 | 59.32 | 39.97 | 14.94 | 67.5 | 100 | 0 | P | V |
| 5240MHz | | 15720 | 46.67 | -27.33 | 74 | 56.03 | 38.03 | 17.97 | 65.36 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | 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 (Band Edge @ 3m)**

| WIFI Ant. 1+2 | Note | Frequency ( MHz ) | Level ( dBμV/m ) | Over Limit ( dB ) | Limit Line ( dBμV/m ) | Read Level (dBμV) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 5149.7 | 58.81 | -15.19 | 74 | 50.47 | 31.58 | 10.23 | 33.47 | 100 | 118 | P | H |
| | | 5150 | 52.5 | -1.5 | 54 | 44.16 | 31.58 | 10.23 | 33.47 | 100 | 118 | A | H |
| | * | 5190 | 99.17 | - | - | 90.78 | 31.62 | 10.24 | 33.47 | 100 | 118 | P | H |
| | * | 5190 | 91.84 | - | - | 83.45 | 31.62 | 10.24 | 33.47 | 100 | 118 | A | H |
| 802.11n | | 5455.38 | 48.22 | -25.78 | 74 | 38.92 | 31.94 | 10.84 | 33.48 | 100 | 118 | P | H |
| HT40 | | 5413.03 | 40.38 | -13.62 | 54 | 31.09 | 31.9 | 10.87 | 33.48 | 100 | 118 | A | H |
| CH 38 | | 5142.65 | 55.77 | -18.23 | 74 | 47.43 | 31.58 | 10.23 | 33.47 | 168 | 156 | P | V |
| 5190MHz | | 5147.45 | 48.28 | -5.72 | 54 | 39.94 | 31.58 | 10.23 | 33.47 | 168 | 156 | A | V |
| | * | 5190 | 95.84 | - | - | 87.45 | 31.62 | 10.24 | 33.47 | 168 | 156 | P | V |
| | * | 5190 | 88.8 | - | - | 80.41 | 31.62 | 10.24 | 33.47 | 168 | 156 | A | V |
| | | 5438 | 48.45 | -25.55 | 74 | 39.17 | 31.92 | 10.84 | 33.48 | 168 | 156 | P | V |
| | | 5458.13 | 40.29 | -13.71 | 54 | 30.99 | 31.94 | 10.84 | 33.48 | 168 | 156 | A | V |
| | | 5130.8 | 51.07 | -22.93 | 74 | 42.76 | 31.56 | 10.22 | 33.47 | 100 | 118 | P | H |
| | | 5149.85 | 41.45 | -12.55 | 54 | 33.11 | 31.58 | 10.23 | 33.47 | 100 | 118 | A | H |
| | * | 5230 | 100.24 | - | - | 91.66 | 31.68 | 10.37 | 33.47 | 100 | 118 | P | H |
| | * | 5230 | 92.51 | - | - | 83.93 | 31.68 | 10.37 | 33.47 | 100 | 118 | A | H |
| 802.11n | | 5398.4 | 50.31 | -23.69 | 74 | 41.04 | 31.88 | 10.87 | 33.48 | 100 | 118 | P | H |
| HT40 | | 5427.66 | 40.39 | -13.61 | 54 | 31.13 | 31.9 | 10.84 | 33.48 | 100 | 118 | A | H |
| CH 46 | | 5049.2 | 49.46 | -24.54 | 74 | 41.27 | 31.46 | 10.2 | 33.47 | 218 | 156 | P | V |
| 5230MHz | | 5100.65 | 40.61 | -13.39 | 54 | 32.34 | 31.52 | 10.22 | 33.47 | 218 | 156 | A | V |
| | * | 5230 | 97.33 | - | - | 88.75 | 31.68 | 10.37 | 33.47 | 218 | 156 | P | V |
| | * | 5230 | 89.83 | - | - | 81.25 | 31.68 | 10.37 | 33.47 | 218 | 156 | A | V |
| | | 5441.19 | 48.31 | -25.69 | 74 | 39.03 | 31.92 | 10.84 | 33.48 | 218 | 156 | P | V |
| | | 5454.28 | 40.28 | -13.72 | 54 | 30.98 | 31.94 | 10.84 | 33.48 | 218 | 156 | 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 HT40 (Harmonic @ 3m)**

| WIFI Ant. 1+2 | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 10380 | 48 | -26 | 74 | 60.83 | 39.81 | 14.86 | 67.5 | 100 | 0 | P | H |
| | | 15570 | 40.48 | -33.52 | 74 | 49.48 | 38.49 | 17.9 | 65.39 | 100 | 0 | P | H |
| 802.11n | | | | | | | | | | | | | H |
| HT40 | | | | | | | | | | | | | H |
| CH 38 | | 10380 | 46.08 | -27.92 | 74 | 58.91 | 39.81 | 14.86 | 67.5 | 100 | 0 | P | V |
| 5190MHz | | 15570 | 39.9 | -34.1 | 74 | 48.9 | 38.49 | 17.9 | 65.39 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | 10460 | 46.01 | -27.99 | 74 | 58.68 | 39.92 | 14.91 | 67.5 | 100 | 0 | P | H |
| | | 15690 | 40.29 | -33.71 | 74 | 49.56 | 38.13 | 17.96 | 65.36 | 100 | 0 | P | H |
| 802.11n | | | | | | | | | | | | | H |
| HT40 | | | | | | | | | | | | | H |
| CH 46 | | 10460 | 44.8 | -29.2 | 74 | 57.47 | 39.92 | 14.91 | 67.5 | 100 | 0 | P | V |
| 5230MHz | | 15690 | 41.19 | -32.81 | 74 | 50.46 | 38.13 | 17.96 | 65.36 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |

**Remark**

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

**Band 1 5150~5250MHz**

**WIFI 802.11ac VHT20 (Band Edge @ 3m)**

| WIFI Ant. 1+2 | Note | Frequency ( MHz ) | Level ( dBμV/m ) | Over Limit ( dB ) | Limit Line ( dBμV/m ) | Read Level (dBμV) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 5147.6 | 50.5 | -23.5 | 74 | 42.16 | 31.58 | 10.23 | 33.47 | 100 | 118 | P | H |
| | | 5150 | 46.06 | -7.94 | 54 | 37.72 | 31.58 | 10.23 | 33.47 | 100 | 118 | A | H |
| | * | 5180 | 104.59 | - | - | 96.21 | 31.62 | 10.23 | 33.47 | 100 | 118 | P | H |
| | * | 5180 | 97.65 | - | - | 89.27 | 31.62 | 10.23 | 33.47 | 100 | 118 | A | H |
| 802.11ac | | | | | | | | | | | | | H |
| VHT20 | | | | | | | | | | | | | H |
| CH 36 | | 5147.45 | 49.8 | -24.2 | 74 | 41.46 | 31.58 | 10.23 | 33.47 | 198 | 158 | P | V |
| 5180MHz | | 5150 | 44.59 | -9.41 | 54 | 36.25 | 31.58 | 10.23 | 33.47 | 198 | 158 | A | V |
| | * | 5180 | 102.29 | - | - | 93.91 | 31.62 | 10.23 | 33.47 | 198 | 158 | P | V |
| | * | 5180 | 95.19 | - | - | 86.81 | 31.62 | 10.23 | 33.47 | 198 | 158 | A | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | 5148.95 | 53.58 | -20.42 | 74 | 45.24 | 31.58 | 10.23 | 33.47 | 100 | 114 | P | H |
| | | 5149.7 | 43.51 | -10.49 | 54 | 35.17 | 31.58 | 10.23 | 33.47 | 100 | 114 | A | H |
| | * | 5220 | 105.78 | - | - | 97.35 | 31.66 | 10.24 | 33.47 | 100 | 114 | P | H |
| | * | 5220 | 98.88 | - | - | 90.45 | 31.66 | 10.24 | 33.47 | 100 | 114 | A | H |
| 802.11ac | | 5396.97 | 48.5 | -25.5 | 74 | 39.23 | 31.88 | 10.87 | 33.48 | 100 | 114 | P | H |
| VHT20 | | 5445.59 | 39.93 | -14.07 | 54 | 30.63 | 31.94 | 10.84 | 33.48 | 100 | 114 | A | H |
| CH 44 | | 5149.1 | 49.83 | -24.17 | 74 | 41.49 | 31.58 | 10.23 | 33.47 | 195 | 158 | P | V |
| 5220MHz | | 5149.7 | 42.3 | -11.7 | 54 | 33.96 | 31.58 | 10.23 | 33.47 | 195 | 158 | A | V |
| | * | 5220 | 101.37 | - | - | 92.94 | 31.66 | 10.24 | 33.47 | 195 | 158 | P | V |
| | * | 5220 | 94.55 | - | - | 86.12 | 31.66 | 10.24 | 33.47 | 195 | 158 | A | V |
| | | 5368.92 | 48.77 | -25.23 | 74 | 39.66 | 31.84 | 10.75 | 33.48 | 195 | 158 | P | V |
| | | 5440.09 | 39.98 | -14.02 | 54 | 30.7 | 31.92 | 10.84 | 33.48 | 195 | 158 | A | V |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 5080.85 | 49 | -25 | 74 | 40.76 | 31.5 | 10.21 | 33.47 | 100 | 115 | P | H |
| | | 5115.5 | 40.35 | -13.65 | 54 | 32.06 | 31.54 | 10.22 | 33.47 | 100 | 115 | A | H |
| | * | 5240 | 105.29 | - | - | 96.71 | 31.68 | 10.37 | 33.47 | 100 | 115 | P | H |
| | * | 5240 | 98.66 | - | - | 90.08 | 31.68 | 10.37 | 33.47 | 100 | 115 | A | H |
| **802.11ac** | | 5440.31 | 48.02 | -25.98 | 74 | 38.74 | 31.92 | 10.84 | 33.48 | 100 | 115 | P | H |
| **VHT20** | | 5384.32 | 39.88 | -14.12 | 54 | 30.63 | 31.86 | 10.87 | 33.48 | 100 | 115 | A | H |
| **CH 48** | | 5010.65 | 48.42 | -25.58 | 74 | 40.28 | 31.42 | 10.19 | 33.47 | 219 | 156 | P | V |
| **5240MHz** | | 5080.4 | 40.26 | -13.74 | 54 | 32.02 | 31.5 | 10.21 | 33.47 | 219 | 156 | A | V |
| | * | 5240 | 101.79 | - | - | 93.21 | 31.68 | 10.37 | 33.47 | 219 | 156 | P | V |
| | * | 5240 | 94.7 | - | - | 86.12 | 31.68 | 10.37 | 33.47 | 219 | 156 | A | V |
| | | 5369.69 | 48.31 | -25.69 | 74 | 39.2 | 31.84 | 10.75 | 33.48 | 219 | 156 | P | V |
| | | 5382.78 | 39.75 | -14.25 | 54 | 30.5 | 31.86 | 10.87 | 33.48 | 219 | 156 | 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 VHT20 (Harmonic @ 3m)**

| WIFI Ant. 1+2 | Note | Frequency ( MHz ) | Level ( dBμV/m ) | Over Limit ( dB ) | Limit Line ( dBμV/m ) | Read Level (dBμV) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 10360 | 50.87 | -23.13 | 74 | 63.72 | 39.79 | 14.86 | 67.5 | 100 | 0 | P | H |
| | | 15540 | 41.88 | -32.12 | 74 | 50.78 | 38.6 | 17.89 | 65.39 | 100 | 0 | P | H |
| 802.11ac | | | | | | | | | | | | | H |
| VHT20 | | | | | | | | | | | | | H |
| CH 36 | | 10360 | 48.9 | -25.1 | 74 | 61.75 | 39.79 | 14.86 | 67.5 | 100 | 0 | P | V |
| 5180MHz | | 15540 | 47.33 | -26.67 | 74 | 56.23 | 38.6 | 17.89 | 65.39 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | 10440 | 53.45 | -20.55 | 74 | 66.15 | 39.89 | 14.91 | 67.5 | 249 | 338 | P | H |
| | | 10440 | 44.04 | -9.96 | 54 | 56.74 | 39.89 | 14.91 | 67.5 | 249 | 338 | A | H |
| 802.11ac | | 15660 | 45.08 | -28.92 | 74 | 54.28 | 38.23 | 17.94 | 65.37 | 100 | 0 | P | H |
| VHT20 | | | | | | | | | | | | | H |
| CH 44 | | 10440 | 49.37 | -24.63 | 74 | 62.07 | 39.89 | 14.91 | 67.5 | 100 | 0 | P | V |
| 5220MHz | | 15660 | 45.87 | -28.13 | 74 | 55.07 | 38.23 | 17.94 | 65.37 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | 10480 | 49.83 | -24.17 | 74 | 62.42 | 39.97 | 14.94 | 67.5 | 100 | 0 | P | H |
| | | 15720 | 46.73 | -27.27 | 74 | 56.09 | 38.03 | 17.97 | 65.36 | 100 | 0 | P | H |
| 802.11ac | | | | | | | | | | | | | H |
| VHT20 | | | | | | | | | | | | | H |
| CH 48 | | 10480 | 48.7 | -25.3 | 74 | 61.29 | 39.97 | 14.94 | 67.5 | 100 | 0 | P | V |
| 5240MHz | | 15720 | 48.92 | -25.08 | 74 | 58.28 | 38.03 | 17.97 | 65.36 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |

**Remark**

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

**Band 1 5150~5250MHz**

**WIFI 802.11ac VHT40 (Band Edge @ 3m)**

| WIFI Ant. 1+2 | Note | Frequency ( MHz ) | Level ( dBμV/m ) | Over Limit ( dB ) | Limit Line ( dBμV/m ) | Read Level (dBμV) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 5148.65 | 58.15 | -15.85 | 74 | 49.81 | 31.58 | 10.23 | 33.47 | 100 | 115 | P | H |
| | | 5150 | 52.44 | -1.56 | 54 | 44.1 | 31.58 | 10.23 | 33.47 | 100 | 115 | A | H |
| | * | 5190 | 99.64 | - | - | 91.25 | 31.62 | 10.24 | 33.47 | 100 | 115 | P | H |
| | * | 5190 | 92.49 | - | - | 84.1 | 31.62 | 10.24 | 33.47 | 100 | 115 | A | H |
| 802.11ac | | 5425.57 | 48.33 | -25.67 | 74 | 39.07 | 31.9 | 10.84 | 33.48 | 100 | 115 | P | H |
| VHT40 | | 5449.55 | 39.95 | -14.05 | 54 | 30.65 | 31.94 | 10.84 | 33.48 | 100 | 115 | A | H |
| CH 38 | | 5146.55 | 54.34 | -19.66 | 74 | 46 | 31.58 | 10.23 | 33.47 | 223 | 157 | P | V |
| 5190MHz | | 5150 | 47.51 | -6.49 | 54 | 39.17 | 31.58 | 10.23 | 33.47 | 223 | 157 | A | V |
| | * | 5190 | 96.65 | - | - | 88.26 | 31.62 | 10.24 | 33.47 | 223 | 157 | P | V |
| | * | 5190 | 89.38 | - | - | 80.99 | 31.62 | 10.24 | 33.47 | 223 | 157 | A | V |
| | | 5450.32 | 48.53 | -25.47 | 74 | 39.23 | 31.94 | 10.84 | 33.48 | 223 | 157 | P | V |
| | | 5452.08 | 39.87 | -14.13 | 54 | 30.57 | 31.94 | 10.84 | 33.48 | 223 | 157 | A | V |
| | | 5112.5 | 48.06 | -25.94 | 74 | 39.77 | 31.54 | 10.22 | 33.47 | 100 | 114 | P | H |
| | | 5147.6 | 41.07 | -12.93 | 54 | 32.73 | 31.58 | 10.23 | 33.47 | 100 | 114 | A | H |
| | * | 5230 | 101.23 | - | - | 92.65 | 31.68 | 10.37 | 33.47 | 100 | 114 | P | H |
| | * | 5230 | 94.15 | - | - | 85.57 | 31.68 | 10.37 | 33.47 | 100 | 114 | A | H |
| 802.11ac | | 5387.18 | 48.89 | -25.11 | 74 | 39.64 | 31.86 | 10.87 | 33.48 | 100 | 114 | P | H |
| VHT40 | | 5370.02 | 40.3 | -13.7 | 54 | 31.19 | 31.84 | 10.75 | 33.48 | 100 | 114 | A | H |
| CH 46 | | 5039 | 48.4 | -25.6 | 74 | 40.21 | 31.46 | 10.2 | 33.47 | 190 | 158 | P | V |
| 5230MHz | | 5145.05 | 40.53 | -13.47 | 54 | 32.19 | 31.58 | 10.23 | 33.47 | 190 | 158 | A | V |
| | * | 5230 | 97.32 | - | - | 88.74 | 31.68 | 10.37 | 33.47 | 190 | 158 | P | V |
| | * | 5230 | 90.18 | - | - | 81.6 | 31.68 | 10.37 | 33.47 | 190 | 158 | A | V |
| | | 5397.3 | 48.76 | -25.24 | 74 | 39.49 | 31.88 | 10.87 | 33.48 | 190 | 158 | P | V |
| | | 5458.79 | 39.83 | -14.17 | 54 | 30.53 | 31.94 | 10.84 | 33.48 | 190 | 158 | 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 VHT40 (Harmonic @ 3m)**

| WIFI Ant. 1+2 | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 10380 | 48.48 | -25.52 | 74 | 61.31 | 39.81 | 14.86 | 67.5 | 100 | 0 | P | H |
| | | 15570 | 39.88 | -34.12 | 74 | 48.88 | 38.49 | 17.9 | 65.39 | 100 | 0 | P | H |
| 802.11ac | | | | | | | | | | | | | H |
| VHT40 | | | | | | | | | | | | | H |
| CH 38 | | 10380 | 46.77 | -27.23 | 74 | 59.6 | 39.81 | 14.86 | 67.5 | 100 | 0 | P | V |
| 5190MHz | | 15570 | 39 | -35 | 74 | 48 | 38.49 | 17.9 | 65.39 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | 10460 | 47.15 | -26.85 | 74 | 59.82 | 39.92 | 14.91 | 67.5 | 100 | 0 | P | H |
| | | 15690 | 40.94 | -33.06 | 74 | 50.21 | 38.13 | 17.96 | 65.36 | 100 | 0 | P | H |
| 802.11ac | | | | | | | | | | | | | H |
| VHT40 | | | | | | | | | | | | | H |
| CH 46 | | 10460 | 43.56 | -30.44 | 74 | 56.23 | 39.92 | 14.91 | 67.5 | 100 | 0 | P | V |
| 5230MHz | | 15690 | 40.4 | -33.6 | 74 | 49.67 | 38.13 | 17.96 | 65.36 | 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 Ant. 1+2 | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11ac VHT80 CH 42 5210MHz | | 5148.5 | 61.17 | -12.83 | 74 | 52.83 | 31.58 | 10.23 | 33.47 | 100 | 118 | P | H |
| | | 5148.8 | 53.8 | -0.2 | 54 | 45.46 | 31.58 | 10.23 | 33.47 | 100 | 118 | A | H |
| | * | 5210 | 96.96 | - | - | 88.53 | 31.66 | 10.24 | 33.47 | 100 | 118 | P | H |
| | * | 5210 | 89.01 | - | - | 80.58 | 31.66 | 10.24 | 33.47 | 100 | 118 | A | H |
| | | 5350.77 | 50.1 | -23.9 | 74 | 41.01 | 31.82 | 10.75 | 33.48 | 100 | 118 | P | H |
| | | 5355.06 | 43.28 | -10.72 | 54 | 34.19 | 31.82 | 10.75 | 33.48 | 100 | 118 | A | H |
| | | 5145.35 | 57.15 | -16.85 | 74 | 48.81 | 31.58 | 10.23 | 33.47 | 205 | 162 | P | V |
| | | 5145.35 | 50.21 | -3.79 | 54 | 41.87 | 31.58 | 10.23 | 33.47 | 205 | 162 | A | V |
| | * | 5210 | 92.97 | - | - | 84.54 | 31.66 | 10.24 | 33.47 | 205 | 162 | P | V |
| | * | 5210 | 84.84 | - | - | 76.41 | 31.66 | 10.24 | 33.47 | 205 | 162 | A | V |
| | | 5445.59 | 48 | -26 | 74 | 38.7 | 31.94 | 10.84 | 33.48 | 205 | 162 | P | V |
| | | 5351.43 | 40.66 | -13.34 | 54 | 31.57 | 31.82 | 10.75 | 33.48 | 205 | 162 | 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 Ant. 1+2 | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 10420 | 45.36 | -28.64 | 74 | 58.1 | 39.87 | 14.89 | 67.5 | 100 | 0 | P | H |
| | | 15630 | 38.16 | -35.84 | 74 | 47.3 | 38.29 | 17.94 | 65.37 | 100 | 0 | P | H |
| 802.11ac | | | | | | | | | | | | | H |
| VHT80 | | | | | | | | | | | | | H |
| CH 42 | | 10420 | 44.54 | -29.46 | 74 | 57.28 | 39.87 | 14.89 | 67.5 | 100 | 0 | P | V |
| 5210MHz | | 15630 | 38.42 | -35.58 | 74 | 47.56 | 38.29 | 17.94 | 65.37 | 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 | Cable | Preamp | Ant | Table | Peak | Pol. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1+2 | | ( MHz ) | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11a CH 52 5260MHz | | 5037.8 | 48.13 | -25.87 | 74 | 39.94 | 31.46 | 10.2 | 33.47 | 100 | 118 | P | H |
| | | 5052.65 | 39.84 | -14.16 | 54 | 31.65 | 31.46 | 10.2 | 33.47 | 100 | 118 | A | H |
| | * | 5260 | 105.74 | - | - | 97.13 | 31.72 | 10.37 | 33.48 | 100 | 118 | P | H |
| | * | 5260 | 97.5 | - | - | 88.89 | 31.72 | 10.37 | 33.48 | 100 | 118 | A | H |
| | | 5418.09 | 48.23 | -25.77 | 74 | 38.94 | 31.9 | 10.87 | 33.48 | 100 | 118 | P | H |
| | | 5456.04 | 39.28 | -14.72 | 54 | 29.98 | 31.94 | 10.84 | 33.48 | 100 | 118 | A | H |
| | | 5003.45 | 48.85 | -25.15 | 74 | 40.73 | 31.4 | 10.19 | 33.47 | 192 | 165 | P | V |
| | | 5081.15 | 39.73 | -14.27 | 54 | 31.49 | 31.5 | 10.21 | 33.47 | 192 | 165 | A | V |
| | * | 5260 | 101.83 | - | - | 93.22 | 31.72 | 10.37 | 33.48 | 192 | 165 | P | V |
| | * | 5260 | 93.77 | - | - | 85.16 | 31.72 | 10.37 | 33.48 | 192 | 165 | A | V |
| | | 5420.07 | 49.45 | -24.55 | 74 | 40.19 | 31.9 | 10.84 | 33.48 | 192 | 165 | P | V |
| | | 5457.47 | 39.33 | -14.67 | 54 | 30.03 | 31.94 | 10.84 | 33.48 | 192 | 165 | A | V |
| 802.11a CH 60 5300MHz | | 5025.05 | 48.55 | -25.45 | 74 | 40.38 | 31.44 | 10.2 | 33.47 | 100 | 118 | P | H |
| | | 5091.5 | 39.72 | -14.28 | 54 | 31.46 | 31.52 | 10.21 | 33.47 | 100 | 118 | A | H |
| | * | 5300 | 106.98 | - | - | 98.21 | 31.76 | 10.49 | 33.48 | 100 | 118 | P | H |
| | * | 5300 | 99.01 | - | - | 90.24 | 31.76 | 10.49 | 33.48 | 100 | 118 | A | H |
| | | 5356.49 | 52.19 | -21.81 | 74 | 43.1 | 31.82 | 10.75 | 33.48 | 100 | 118 | P | H |
| | | 5351.1 | 42.61 | -11.39 | 54 | 33.52 | 31.82 | 10.75 | 33.48 | 100 | 118 | A | H |
| | | 5070.05 | 48.68 | -25.32 | 74 | 40.46 | 31.48 | 10.21 | 33.47 | 204 | 157 | P | V |
| | | 5091.5 | 39.68 | -14.32 | 54 | 31.42 | 31.52 | 10.21 | 33.47 | 204 | 157 | A | V |
| | * | 5300 | 102.68 | - | - | 93.91 | 31.76 | 10.49 | 33.48 | 204 | 157 | P | V |
| | * | 5300 | 94.42 | - | - | 85.65 | 31.76 | 10.49 | 33.48 | 204 | 157 | A | V |
| | | 5441.19 | 47.81 | -26.19 | 74 | 38.53 | 31.92 | 10.84 | 33.48 | 204 | 157 | P | V |
| | | 5350.22 | 39.88 | -14.12 | 54 | 30.79 | 31.82 | 10.75 | 33.48 | 204 | 157 | A | V |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11a CH 64 5320MHz | * | 5320 | 107.29 | - | - | 98.37 | 31.78 | 10.62 | 33.48 | 100 | 118 | P | H |
| | * | 5320 | 99 | - | - | 90.08 | 31.78 | 10.62 | 33.48 | 100 | 118 | A | H |
| | | 5363.31 | 60.06 | -13.94 | 74 | 50.95 | 31.84 | 10.75 | 33.48 | 100 | 118 | P | H |
| | | 5350.33 | 50.26 | -3.74 | 54 | 41.17 | 31.82 | 10.75 | 33.48 | 100 | 118 | A | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| | * | 5320 | 102.56 | - | - | 93.64 | 31.78 | 10.62 | 33.48 | 200 | 158 | P | V |
| | * | 5320 | 94.34 | - | - | 85.42 | 31.78 | 10.62 | 33.48 | 200 | 158 | A | V |
| | | 5357.48 | 52.68 | -21.32 | 74 | 43.59 | 31.82 | 10.75 | 33.48 | 200 | 158 | P | V |
| | | 5350.44 | 45.17 | -8.83 | 54 | 36.08 | 31.82 | 10.75 | 33.48 | 200 | 158 | 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 802.11a (Harmonic @ 3m)**

| WIFI Ant. 1+2 | Note | Frequency ( MHz ) | Level ( dBμV/m ) | Over Limit ( dB ) | Limit Line ( dBμV/m ) | Read Level (dBμV) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11a CH 52 5260MHz | | 10520 | 49.78 | -24.22 | 74 | 62.29 | 40.01 | 14.96 | 67.48 | 100 | 0 | P | H |
| | | 15780 | 46.99 | -27.01 | 74 | 56.47 | 37.87 | 17.99 | 65.34 | 100 | 0 | P | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| | | 10520 | 46.97 | -27.03 | 74 | 59.48 | 40.01 | 14.96 | 67.48 | 100 | 0 | P | V |
| | | 15780 | 48.02 | -25.98 | 74 | 57.5 | 37.87 | 17.99 | 65.34 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| 802.11a CH 60 5300MHz | | 10600 | 48.65 | -25.35 | 74 | 60.97 | 40.06 | 15.02 | 67.4 | 100 | 0 | P | H |
| | | 15900 | 46.39 | -27.61 | 74 | 56.16 | 37.51 | 18.04 | 65.32 | 100 | 0 | P | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| | | 10600 | 46.32 | -27.68 | 74 | 58.64 | 40.06 | 15.02 | 67.4 | 100 | 0 | P | V |
| | | 15900 | 46.3 | -27.7 | 74 | 56.07 | 37.51 | 18.04 | 65.32 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| 802.11a CH 64 5320MHz | | 10640 | 40.96 | -33.04 | 74 | 53.2 | 40.08 | 15.04 | 67.36 | 100 | 0 | P | H |
| | | 15960 | 45.85 | -28.15 | 74 | 55.78 | 37.3 | 18.08 | 65.31 | 100 | 0 | P | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| | | 10640 | 48.91 | -25.09 | 74 | 61.15 | 40.08 | 15.04 | 67.36 | 100 | 0 | P | V |
| | | 15960 | 44.66 | -29.34 | 74 | 54.59 | 37.3 | 18.08 | 65.31 | 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 Ant. 1+2 | Note | Frequency ( MHz ) | Level ( dBμV/m ) | Over Limit ( dB ) | Limit Line ( dBμV/m ) | Read Level (dBμV) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 5121.35 | 49.19 | -24.81 | 74 | 40.9 | 31.54 | 10.22 | 33.47 | 100 | 118 | P | H |
| | | 5078.75 | 39.82 | -14.18 | 54 | 31.58 | 31.5 | 10.21 | 33.47 | 100 | 118 | A | H |
| | * | 5260 | 104.91 | - | - | 96.3 | 31.72 | 10.37 | 33.48 | 100 | 118 | P | H |
| | * | 5260 | 97.15 | - | - | 88.54 | 31.72 | 10.37 | 33.48 | 100 | 118 | A | H |
| 802.11n | | 5375.85 | 48.21 | -25.79 | 74 | 39.1 | 31.84 | 10.75 | 33.48 | 100 | 118 | P | H |
| HT20 | | 5443.61 | 39.37 | -14.63 | 54 | 30.09 | 31.92 | 10.84 | 33.48 | 100 | 118 | A | H |
| CH 52 | | 5043.8 | 48.95 | -25.05 | 74 | 40.76 | 31.46 | 10.2 | 33.47 | 192 | 165 | P | V |
| 5260MHz | | 5044.25 | 39.78 | -14.22 | 54 | 31.59 | 31.46 | 10.2 | 33.47 | 192 | 165 | A | V |
| | * | 5260 | 101.96 | - | - | 93.35 | 31.72 | 10.37 | 33.48 | 192 | 165 | P | V |
| | * | 5260 | 93.79 | - | - | 85.18 | 31.72 | 10.37 | 33.48 | 192 | 165 | A | V |
| | | 5430.96 | 48.05 | -25.95 | 74 | 38.77 | 31.92 | 10.84 | 33.48 | 192 | 165 | P | V |
| | | 5446.47 | 39.18 | -14.82 | 54 | 29.88 | 31.94 | 10.84 | 33.48 | 192 | 165 | A | V |
| | | 5051.15 | 48.47 | -25.53 | 74 | 40.28 | 31.46 | 10.2 | 33.47 | 100 | 118 | P | H |
| | | 5027.9 | 39.74 | -14.26 | 54 | 31.57 | 31.44 | 10.2 | 33.47 | 100 | 118 | A | H |
| | * | 5300 | 106.68 | - | - | 97.91 | 31.76 | 10.49 | 33.48 | 100 | 118 | P | H |
| | * | 5300 | 98.58 | - | - | 89.81 | 31.76 | 10.49 | 33.48 | 100 | 118 | A | H |
| 802.11n | | 5352.31 | 50.86 | -23.14 | 74 | 41.77 | 31.82 | 10.75 | 33.48 | 100 | 118 | P | H |
| HT20 | | 5350.77 | 42.36 | -11.64 | 54 | 33.27 | 31.82 | 10.75 | 33.48 | 100 | 118 | A | H |
| CH 60 | | 5010.35 | 47.82 | -26.18 | 74 | 39.68 | 31.42 | 10.19 | 33.47 | 204 | 157 | P | V |
| 5300MHz | | 5047.4 | 39.82 | -14.18 | 54 | 31.63 | 31.46 | 10.2 | 33.47 | 204 | 157 | A | V |
| | * | 5300 | 102.64 | - | - | 93.87 | 31.76 | 10.49 | 33.48 | 204 | 157 | P | V |
| | * | 5300 | 94.52 | - | - | 85.75 | 31.76 | 10.49 | 33.48 | 204 | 157 | A | V |
| | | 5420.62 | 48.86 | -25.14 | 74 | 39.6 | 31.9 | 10.84 | 33.48 | 204 | 157 | P | V |
| | | 5350.44 | 39.94 | -14.06 | 54 | 30.85 | 31.82 | 10.75 | 33.48 | 204 | 157 | A | V |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | * | 5320 | 106.59 | - | - | 97.67 | 31.78 | 10.62 | 33.48 | 100 | 118 | P | H |
| | * | 5320 | 98.55 | - | - | 89.63 | 31.78 | 10.62 | 33.48 | 100 | 118 | A | H |
| | | 5355.06 | 57.63 | -16.37 | 74 | 48.54 | 31.82 | 10.75 | 33.48 | 100 | 118 | P | H |
| | | 5351.21 | 48.85 | -5.15 | 54 | 39.76 | 31.82 | 10.75 | 33.48 | 100 | 118 | A | H |
| **802.11n** | | | | | | | | | | | | | H |
| **HT20** | | | | | | | | | | | | | H |
| **CH 64** | * | 5320 | 102.45 | - | - | 93.53 | 31.78 | 10.62 | 33.48 | 200 | 158 | P | V |
| **5320MHz** | * | 5320 | 94.29 | - | - | 85.37 | 31.78 | 10.62 | 33.48 | 200 | 158 | A | V |
| | | 5357.81 | 51.04 | -22.96 | 74 | 41.95 | 31.82 | 10.75 | 33.48 | 200 | 158 | P | V |
| | | 5350.33 | 44.98 | -9.02 | 54 | 35.89 | 31.82 | 10.75 | 33.48 | 200 | 158 | 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 Ant. 1+2 | Note | Frequency ( MHz ) | Level ( dBμV/m ) | Over Limit ( dB ) | Limit Line ( dBμV/m ) | Read Level (dBμV) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 10520 | 50.78 | -23.22 | 74 | 63.29 | 40.01 | 14.96 | 67.48 | 100 | 0 | P | H |
| | | 15780 | 47.44 | -26.56 | 74 | 56.92 | 37.87 | 17.99 | 65.34 | 100 | 0 | P | H |
| 802.11n | | | | | | | | | | | | | H |
| HT20 | | | | | | | | | | | | | H |
| CH 52 | | 10520 | 45.7 | -28.3 | 74 | 58.21 | 40.01 | 14.96 | 67.48 | 100 | 0 | P | V |
| 5260MHz | | 15780 | 46 | -28 | 74 | 55.48 | 37.87 | 17.99 | 65.34 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | 10600 | 52.52 | -21.48 | 74 | 64.84 | 40.06 | 15.02 | 67.4 | 289 | 335 | P | H |
| | | 10600 | 42.96 | -31.04 | 74 | 55.28 | 40.06 | 15.02 | 67.4 | 289 | 335 | A | H |
| 802.11n | | 15900 | 47.24 | -26.76 | 74 | 57.01 | 37.51 | 18.04 | 65.32 | 100 | 0 | P | H |
| HT20 | | | | | | | | | | | | | H |
| CH 60 | | 10600 | 45.21 | -28.79 | 74 | 57.53 | 40.06 | 15.02 | 67.4 | 100 | 0 | P | V |
| 5300MHz | | 15900 | 44.87 | -29.13 | 74 | 54.64 | 37.51 | 18.04 | 65.32 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | 10640 | 49.16 | -24.84 | 74 | 61.4 | 40.08 | 15.04 | 67.36 | 100 | 0 | P | H |
| | | 15960 | 46.07 | -27.93 | 74 | 56 | 37.3 | 18.08 | 65.31 | 100 | 0 | P | H |
| 802.11n | | | | | | | | | | | | | H |
| HT20 | | | | | | | | | | | | | H |
| CH 64 | | 10640 | 47.71 | -26.29 | 74 | 59.95 | 40.08 | 15.04 | 67.36 | 400 | 0 | P | V |
| 5320MHz | | 15960 | 43.64 | -30.36 | 74 | 53.57 | 37.3 | 18.08 | 65.31 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | 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 (Band Edge @ 3m)**

| WIFI Ant. 1+2 | Note | Frequency ( MHz ) | Level ( dBμV/m ) | Over Limit ( dB ) | Limit Line ( dBμV/m ) | Read Level (dBμV) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11n HT40 CH 54 5270MHz | | 5107.25 | 49.02 | -24.98 | 74 | 40.73 | 31.54 | 10.22 | 33.47 | 100 | 118 | P | H |
| | | 5105.6 | 40.51 | -13.49 | 54 | 32.22 | 31.54 | 10.22 | 33.47 | 100 | 118 | A | H |
| | * | 5270 | 102.42 | - | - | 93.69 | 31.72 | 10.49 | 33.48 | 100 | 118 | P | H |
| | * | 5270 | 94.06 | - | - | 85.33 | 31.72 | 10.49 | 33.48 | 100 | 118 | A | H |
| | | 5352.64 | 52.07 | -21.93 | 74 | 42.98 | 31.82 | 10.75 | 33.48 | 100 | 118 | P | H |
| | | 5350 | 44.09 | -9.91 | 54 | 35 | 31.82 | 10.75 | 33.48 | 100 | 118 | A | H |
| | | 5138.45 | 49.48 | -24.52 | 74 | 41.17 | 31.56 | 10.22 | 33.47 | 192 | 155 | P | V |
| | | 5075.45 | 40.47 | -13.53 | 54 | 32.23 | 31.5 | 10.21 | 33.47 | 192 | 155 | A | V |
| | * | 5270 | 96.67 | - | - | 87.94 | 31.72 | 10.49 | 33.48 | 192 | 155 | P | V |
| | * | 5270 | 89.35 | - | - | 80.62 | 31.72 | 10.49 | 33.48 | 192 | 155 | A | V |
| | | 5356.93 | 48.81 | -25.19 | 74 | 39.72 | 31.82 | 10.75 | 33.48 | 192 | 155 | P | V |
| | | 5350.22 | 40.91 | -13.09 | 54 | 31.82 | 31.82 | 10.75 | 33.48 | 192 | 155 | A | V |
| 802.11n HT40 CH 62 5310MHz | | 5063.6 | 49.03 | -24.97 | 74 | 40.81 | 31.48 | 10.21 | 33.47 | 100 | 117 | P | H |
| | | 5042.75 | 40.6 | -13.4 | 54 | 32.41 | 31.46 | 10.2 | 33.47 | 100 | 117 | A | H |
| | * | 5310 | 100.56 | - | - | 91.64 | 31.78 | 10.62 | 33.48 | 100 | 117 | P | H |
| | * | 5310 | 93.19 | - | - | 84.27 | 31.78 | 10.62 | 33.48 | 100 | 117 | A | H |
| | | 5353.52 | 59.25 | -14.75 | 74 | 50.16 | 31.82 | 10.75 | 33.48 | 100 | 117 | P | H |
| | | 5350 | 53.75 | -0.25 | 54 | 44.66 | 31.82 | 10.75 | 33.48 | 100 | 117 | A | H |
| | | 5095.55 | 48.72 | -25.28 | 74 | 40.46 | 31.52 | 10.21 | 33.47 | 197 | 157 | P | V |
| | | 5109.95 | 40.45 | -13.55 | 54 | 32.16 | 31.54 | 10.22 | 33.47 | 197 | 157 | A | V |
| | * | 5310 | 96.34 | - | - | 87.42 | 31.78 | 10.62 | 33.48 | 197 | 157 | P | V |
| | * | 5310 | 89.14 | - | - | 80.22 | 31.78 | 10.62 | 33.48 | 197 | 157 | A | V |
| | | 5350 | 55.03 | -18.97 | 74 | 45.94 | 31.82 | 10.75 | 33.48 | 197 | 157 | P | V |
| | | 5358.69 | 47.23 | -6.77 | 54 | 38.14 | 31.82 | 10.75 | 33.48 | 197 | 157 | 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 Ant. 1+2 | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 10540 | 45.5 | -28.5 | 74 | 57.99 | 40.02 | 14.96 | 67.47 | 100 | 0 | P | H |
| | | 15810 | 40.06 | -33.94 | 74 | 49.62 | 37.77 | 18.01 | 65.34 | 100 | 0 | P | H |
| 802.11n | | | | | | | | | | | | | H |
| HT40 | | | | | | | | | | | | | H |
| CH 54 | | 10540 | 44.94 | -29.06 | 74 | 57.43 | 40.02 | 14.96 | 67.47 | 100 | 0 | P | V |
| 5270MHz | | 15810 | 39.25 | -34.75 | 74 | 48.81 | 37.77 | 18.01 | 65.34 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | 10620 | 45.09 | -28.91 | 74 | 57.38 | 40.07 | 15.02 | 67.38 | 100 | 0 | P | H |
| | | 15930 | 40.42 | -33.58 | 74 | 50.26 | 37.41 | 18.06 | 65.31 | 100 | 0 | P | H |
| 802.11n | | | | | | | | | | | | | H |
| HT40 | | | | | | | | | | | | | H |
| CH 62 | | 10620 | 44.06 | -29.94 | 74 | 56.35 | 40.07 | 15.02 | 67.38 | 100 | 0 | P | V |
| 5310MHz | | 15930 | 39.97 | -34.03 | 74 | 49.81 | 37.41 | 18.06 | 65.31 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |

**Remark**

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

**Band 2 5250~5350MHz**

**WIFI 802.11ac VHT20 (Band Edge @ 3m)**

| WIFI Ant. 1+2 | Note | Frequency ( MHz ) | Level ( dBμV/m ) | Over Limit ( dB ) | Limit Line ( dBμV/m ) | Read Level (dBμV) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 5107.85 | 48.49 | -25.51 | 74 | 40.2 | 31.54 | 10.22 | 33.47 | 100 | 118 | P | H |
| | | 5079.8 | 40.47 | -13.53 | 54 | 32.23 | 31.5 | 10.21 | 33.47 | 100 | 118 | A | H |
| | * | 5260 | 106.09 | - | - | 97.48 | 31.72 | 10.37 | 33.48 | 100 | 118 | P | H |
| | * | 5260 | 98.72 | - | - | 90.11 | 31.72 | 10.37 | 33.48 | 100 | 118 | A | H |
| 802.11ac | | 5442.73 | 48.68 | -25.32 | 74 | 39.4 | 31.92 | 10.84 | 33.48 | 100 | 118 | P | H |
| VHT20 | | 5452.74 | 40.14 | -13.86 | 54 | 30.84 | 31.94 | 10.84 | 33.48 | 100 | 118 | A | H |
| CH 52 | | 5021.15 | 49.09 | -24.91 | 74 | 40.92 | 31.44 | 10.2 | 33.47 | 195 | 157 | P | V |
| 5260MHz | | 5081.15 | 40.22 | -13.78 | 54 | 31.98 | 31.5 | 10.21 | 33.47 | 195 | 157 | A | V |
| | * | 5260 | 101.49 | - | - | 92.88 | 31.72 | 10.37 | 33.48 | 195 | 157 | P | V |
| | * | 5260 | 94.26 | - | - | 85.65 | 31.72 | 10.37 | 33.48 | 195 | 157 | A | V |
| | | 5372.66 | 47.77 | -26.23 | 74 | 38.66 | 31.84 | 10.75 | 33.48 | 195 | 157 | P | V |
| | | 5436.57 | 39.83 | -14.17 | 54 | 30.55 | 31.92 | 10.84 | 33.48 | 195 | 157 | A | V |
| | | 5027.3 | 49.22 | -24.78 | 74 | 41.05 | 31.44 | 10.2 | 33.47 | 100 | 114 | P | H |
| | | 5025.65 | 40.22 | -13.78 | 54 | 32.05 | 31.44 | 10.2 | 33.47 | 100 | 114 | A | H |
| | * | 5300 | 107.09 | - | - | 98.32 | 31.76 | 10.49 | 33.48 | 100 | 114 | P | H |
| | * | 5300 | 100.09 | - | - | 91.32 | 31.76 | 10.49 | 33.48 | 100 | 114 | A | H |
| 802.11ac | | 5350 | 50.82 | -23.18 | 74 | 41.73 | 31.82 | 10.75 | 33.48 | 100 | 114 | P | H |
| VHT20 | | 5350.44 | 43.08 | -10.92 | 54 | 33.99 | 31.82 | 10.75 | 33.48 | 100 | 114 | A | H |
| CH 60 | | 5070.65 | 49.51 | -24.49 | 74 | 41.29 | 31.48 | 10.21 | 33.47 | 182 | 156 | P | V |
| 5300MHz | | 5117.3 | 40.64 | -13.36 | 54 | 32.35 | 31.54 | 10.22 | 33.47 | 182 | 156 | A | V |
| | * | 5300 | 101.57 | - | - | 92.8 | 31.76 | 10.49 | 33.48 | 182 | 156 | P | V |
| | * | 5300 | 94.88 | - | - | 86.11 | 31.76 | 10.49 | 33.48 | 182 | 156 | A | V |
| | | 5447.57 | 49.01 | -24.99 | 74 | 39.71 | 31.94 | 10.84 | 33.48 | 182 | 156 | P | V |
| | | 5350.33 | 40.2 | -13.8 | 54 | 31.11 | 31.82 | 10.75 | 33.48 | 182 | 156 | A | V |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | * | 5320 | 107 | - | - | 98.08 | 31.78 | 10.62 | 33.48 | 100 | 114 | P | H |
| | * | 5320 | 99.89 | - | - | 90.97 | 31.78 | 10.62 | 33.48 | 100 | 114 | A | H |
| | | 5353.74 | 58.21 | -15.79 | 74 | 49.12 | 31.82 | 10.75 | 33.48 | 100 | 114 | P | H |
| | | 5353.08 | 50.55 | -3.45 | 54 | 41.46 | 31.82 | 10.75 | 33.48 | 100 | 114 | A | H |
| **802.11ac** | | | | | | | | | | | | | H |
| **VHT20** | | | | | | | | | | | | | H |
| **CH 64** | * | 5320 | 101.28 | - | - | 92.36 | 31.78 | 10.62 | 33.48 | 197 | 159 | P | V |
| **5320MHz** | * | 5320 | 94.52 | - | - | 85.6 | 31.78 | 10.62 | 33.48 | 197 | 159 | A | V |
| | | 5358.14 | 51.22 | -22.78 | 74 | 42.13 | 31.82 | 10.75 | 33.48 | 197 | 159 | P | V |
| | | 5351.32 | 45.07 | -8.93 | 54 | 35.98 | 31.82 | 10.75 | 33.48 | 197 | 159 | 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 802.11ac VHT20 (Harmonic @ 3m)**

| WIFI Ant. 1+2 | Note | Frequency ( MHz ) | Level ( dBμV/m ) | Over Limit ( dB ) | Limit Line ( dBμV/m ) | Read Level (dBμV) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 10520 | 53.15 | -20.85 | 74 | 65.66 | 40.01 | 14.96 | 67.48 | 240 | 238 | P | H |
| | | 10520 | 42.09 | -11.91 | 54 | 54.6 | 40.01 | 14.96 | 67.48 | 240 | 238 | A | H |
| 802.11ac | | 15780 | 45.64 | -28.36 | 74 | 55.12 | 37.87 | 17.99 | 65.34 | 100 | 0 | P | H |
| VHT20 | | | | | | | | | | | | | H |
| CH 52 | | 10520 | 47.35 | -26.65 | 74 | 59.86 | 40.01 | 14.96 | 67.48 | 100 | 0 | P | V |
| 5260MHz | | 15780 | 46.88 | -27.12 | 74 | 56.36 | 37.87 | 17.99 | 65.34 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | 10600 | 54.93 | -19.07 | 74 | 67.25 | 40.06 | 15.02 | 67.4 | 194 | 341 | P | H |
| | | 10600 | 43.27 | -10.73 | 54 | 55.59 | 40.06 | 15.02 | 67.4 | 194 | 341 | A | H |
| 802.11ac | | 15900 | 46.6 | -27.4 | 74 | 56.37 | 37.51 | 18.04 | 65.32 | 100 | 0 | P | H |
| VHT20 | | | | | | | | | | | | | H |
| CH 60 | | 10600 | 48.71 | -25.29 | 74 | 61.03 | 40.06 | 15.02 | 67.4 | 100 | 0 | P | V |
| 5300MHz | | 15900 | 45.08 | -28.92 | 74 | 54.85 | 37.51 | 18.04 | 65.32 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | 10640 | 49.87 | -24.13 | 74 | 62.11 | 40.08 | 15.04 | 67.36 | 100 | 0 | P | H |
| | | 15960 | 45.24 | -28.76 | 74 | 55.17 | 37.3 | 18.08 | 65.31 | 100 | 0 | P | H |
| 802.11ac | | | | | | | | | | | | | H |
| VHT20 | | | | | | | | | | | | | H |
| CH 64 | | 10640 | 48.08 | -25.92 | 74 | 60.32 | 40.08 | 15.04 | 67.36 | 100 | 0 | P | V |
| 5320MHz | | 15960 | 45.18 | -28.82 | 74 | 55.11 | 37.3 | 18.08 | 65.31 | 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 VHT40 (Band Edge @ 3m)**

| WIFI Ant. 1+2 | Note | Frequency ( MHz ) | Level ( dBμV/m ) | Over Limit ( dB ) | Limit Line ( dBμV/m ) | Read Level (dBμV) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 5080.85 | 49.32 | -24.68 | 74 | 41.08 | 31.5 | 10.21 | 33.47 | 100 | 119 | P | H |
| | | 5078.6 | 40.22 | -13.78 | 54 | 31.98 | 31.5 | 10.21 | 33.47 | 100 | 119 | A | H |
| | * | 5270 | 102.26 | - | - | 93.53 | 31.72 | 10.49 | 33.48 | 100 | 119 | P | H |
| | * | 5270 | 94.42 | - | - | 85.69 | 31.72 | 10.49 | 33.48 | 100 | 119 | A | H |
| 802.11ac | | 5352.09 | 50.56 | -23.44 | 74 | 41.47 | 31.82 | 10.75 | 33.48 | 100 | 119 | P | H |
| VHT40 | | 5352.2 | 43.09 | -10.91 | 54 | 34 | 31.82 | 10.75 | 33.48 | 100 | 119 | A | H |
| CH 54 | | 5024.45 | 49.01 | -24.99 | 74 | 40.84 | 31.44 | 10.2 | 33.47 | 186 | 161 | P | V |
| 5270MHz | | 5116.85 | 40.21 | -13.79 | 54 | 31.92 | 31.54 | 10.22 | 33.47 | 186 | 161 | A | V |
| | * | 5270 | 98.17 | - | - | 89.44 | 31.72 | 10.49 | 33.48 | 186 | 161 | P | V |
| | * | 5270 | 89.92 | - | - | 81.19 | 31.72 | 10.49 | 33.48 | 186 | 161 | A | V |
| | | 5351.65 | 48.03 | -25.97 | 74 | 38.94 | 31.82 | 10.75 | 33.48 | 186 | 161 | P | V |
| | | 5350.99 | 40.95 | -13.05 | 54 | 31.86 | 31.82 | 10.75 | 33.48 | 186 | 161 | A | V |
| | | 5027 | 49.02 | -24.98 | 74 | 40.85 | 31.44 | 10.2 | 33.47 | 100 | 118 | P | H |
| | | 5045.9 | 40.48 | -13.52 | 54 | 32.29 | 31.46 | 10.2 | 33.47 | 100 | 118 | A | H |
| | * | 5310 | 102.1 | - | - | 93.18 | 31.78 | 10.62 | 33.48 | 100 | 118 | P | H |
| | * | 5310 | 94.35 | - | - | 85.43 | 31.78 | 10.62 | 33.48 | 100 | 118 | A | H |
| 802.11ac | | 5350 | 59.9 | -14.1 | 74 | 50.81 | 31.82 | 10.75 | 33.48 | 100 | 118 | P | H |
| VHT40 | | 5350.11 | 53.76 | -0.24 | 54 | 44.67 | 31.82 | 10.75 | 33.48 | 100 | 118 | A | H |
| CH 62 | | 5029.7 | 49.28 | -24.72 | 74 | 41.11 | 31.44 | 10.2 | 33.47 | 135 | 157 | P | V |
| 5310MHz | | 5113.4 | 40.21 | -13.79 | 54 | 31.92 | 31.54 | 10.22 | 33.47 | 135 | 157 | A | V |
| | * | 5310 | 97.4 | - | - | 88.48 | 31.78 | 10.62 | 33.48 | 135 | 157 | P | V |
| | * | 5310 | 89.27 | - | - | 80.35 | 31.78 | 10.62 | 33.48 | 135 | 157 | A | V |
| | | 5355.94 | 54.15 | -19.85 | 74 | 45.06 | 31.82 | 10.75 | 33.48 | 135 | 157 | P | V |
| | | 5354.95 | 47.2 | -6.8 | 54 | 38.11 | 31.82 | 10.75 | 33.48 | 135 | 157 | 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 VHT40 (Harmonic @ 3m)**

| WIFI Ant. 1+2 | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 10540 | 45.27 | -28.73 | 74 | 57.76 | 40.02 | 14.96 | 67.47 | 100 | 0 | P | H |
| | | 15810 | 39.68 | -34.32 | 74 | 49.24 | 37.77 | 18.01 | 65.34 | 100 | 0 | P | H |
| 802.11ac | | | | | | | | | | | | | H |
| VHT40 | | | | | | | | | | | | | H |
| CH 54 | | 10540 | 45.32 | -28.68 | 74 | 57.81 | 40.02 | 14.96 | 67.47 | 100 | 0 | P | V |
| 5270MHz | | 15810 | 38.5 | -35.5 | 74 | 48.06 | 37.77 | 18.01 | 65.34 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | 10620 | 44.29 | -29.71 | 74 | 56.58 | 40.07 | 15.02 | 67.38 | 100 | 0 | P | H |
| | | 15930 | 36.58 | -37.42 | 74 | 46.42 | 37.41 | 18.06 | 65.31 | 100 | 0 | P | H |
| 802.11ac | | | | | | | | | | | | | H |
| VHT40 | | | | | | | | | | | | | H |
| CH 62 | | 10620 | 43.8 | -30.2 | 74 | 56.09 | 40.07 | 15.02 | 67.38 | 100 | 0 | P | V |
| 5310MHz | | 15930 | 37.34 | -36.66 | 74 | 47.18 | 37.41 | 18.06 | 65.31 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |

**Remark**

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

**Band 2 5250~5350MHz**

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

| WIFI Ant. 1+2 | Note | Frequency ( MHz ) | Level ( dBμV/m ) | Over Limit ( dB ) | Limit Line ( dBμV/m ) | Read Level (dBμV) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11ac VHT80 CH 58 5290MHz | | 5140.7 | 50.46 | -23.54 | 74 | 42.12 | 31.58 | 10.23 | 33.47 | 100 | 117 | P | H |
| | | 5149.1 | 41.52 | -12.48 | 54 | 33.18 | 31.58 | 10.23 | 33.47 | 100 | 117 | A | H |
| | * | 5290 | 97.43 | - | - | 88.68 | 31.74 | 10.49 | 33.48 | 100 | 117 | P | H |
| | * | 5290 | 89.9 | - | - | 81.15 | 31.74 | 10.49 | 33.48 | 100 | 117 | A | H |
| | | 5379.15 | 59.83 | -14.17 | 74 | 50.7 | 31.86 | 10.75 | 33.48 | 100 | 117 | P | H |
| | | 5351.98 | 52.91 | -1.09 | 54 | 43.82 | 31.82 | 10.75 | 33.48 | 100 | 117 | A | H |
| | | 5079.8 | 48.54 | -25.46 | 74 | 40.3 | 31.5 | 10.21 | 33.47 | 206 | 166 | P | V |
| | | 5147.3 | 40.87 | -13.13 | 54 | 32.53 | 31.58 | 10.23 | 33.47 | 206 | 166 | A | V |
| | * | 5290 | 94.7 | - | - | 85.95 | 31.74 | 10.49 | 33.48 | 206 | 166 | P | V |
| | * | 5290 | 85.01 | - | - | 76.26 | 31.74 | 10.49 | 33.48 | 206 | 166 | A | V |
| | | 5366.06 | 53.76 | -20.24 | 74 | 44.65 | 31.84 | 10.75 | 33.48 | 206 | 166 | P | V |
| | | 5355.83 | 47.2 | -6.8 | 54 | 38.11 | 31.82 | 10.75 | 33.48 | 206 | 166 | 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 Ant. 1+2 | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 10580 | 43.25 | -30.75 | 74 | 55.62 | 40.05 | 14.99 | 67.41 | 100 | 0 | P | H |
| | | 15870 | 38.58 | -35.42 | 74 | 48.3 | 37.56 | 18.04 | 65.32 | 100 | 0 | P | H |
| 802.11ac | | | | | | | | | | | | | H |
| VHT80 | | | | | | | | | | | | | H |
| CH 58 | | 10580 | 42.88 | -31.12 | 74 | 55.25 | 40.05 | 14.99 | 67.41 | 100 | 0 | P | V |
| 5290MHz | | 15870 | 38.4 | -35.6 | 74 | 48.12 | 37.56 | 18.04 | 65.32 | 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 | Cable | Preamp | Ant | Table | Peak | Pol. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1+2 | | ( MHz ) | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11a CH 100 5500MHz | | 5466.64 | 60.37 | -13.63 | 74 | 51.08 | 31.96 | 10.81 | 33.48 | 100 | 117 | P | H |
| | | 5470 | 53.72 | -0.28 | 54 | 44.43 | 31.96 | 10.81 | 33.48 | 100 | 117 | A | H |
| | * | 5500 | 107.51 | - | - | 98.18 | 32 | 10.81 | 33.48 | 100 | 117 | P | H |
| | * | 5500 | 100.09 | - | - | 90.76 | 32 | 10.81 | 33.48 | 100 | 117 | A | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| | | 5470 | 57.29 | -16.71 | 74 | 48 | 31.96 | 10.81 | 33.48 | 147 | 21 | P | V |
| | | 5470 | 47.43 | -6.57 | 54 | 38.14 | 31.96 | 10.81 | 33.48 | 147 | 21 | A | V |
| | * | 5500 | 101.67 | - | - | 92.34 | 32 | 10.81 | 33.48 | 147 | 21 | P | V |
| | * | 5500 | 94.1 | - | - | 84.77 | 32 | 10.81 | 33.48 | 147 | 21 | A | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| 802.11a CH 116 5580MHz | | 5446.96 | 47.84 | -26.16 | 74 | 38.54 | 31.94 | 10.84 | 33.48 | 205 | 115 | P | H |
| | | 5465.04 | 39.54 | -14.46 | 54 | 30.25 | 31.96 | 10.81 | 33.48 | 205 | 115 | A | H |
| | * | 5580 | 106.51 | - | - | 97.19 | 32.1 | 10.74 | 33.52 | 205 | 115 | P | H |
| | * | 5580 | 99.91 | - | - | 90.59 | 32.1 | 10.74 | 33.52 | 205 | 115 | A | H |
| | | 5759.4 | 48.01 | -25.99 | 74 | 38.6 | 32.36 | 10.63 | 33.58 | 205 | 115 | P | H |
| | | 5752.84 | 39.65 | -14.35 | 54 | 30.23 | 32.36 | 10.63 | 33.57 | 205 | 115 | A | H |
| | | 5421.68 | 47.13 | -26.87 | 74 | 37.87 | 31.9 | 10.84 | 33.48 | 138 | 156 | P | V |
| | | 5453.84 | 39.35 | -14.65 | 54 | 30.05 | 31.94 | 10.84 | 33.48 | 138 | 156 | A | V |
| | * | 5580 | 100.31 | - | - | 90.99 | 32.1 | 10.74 | 33.52 | 138 | 156 | P | V |
| | * | 5580 | 92.06 | - | - | 82.74 | 32.1 | 10.74 | 33.52 | 138 | 156 | A | V |
| | | 5732.84 | 47.82 | -26.18 | 74 | 38.43 | 32.31 | 10.65 | 33.57 | 138 | 156 | P | V |
| | | 5763.32 | 39.51 | -14.49 | 54 | 30.1 | 32.36 | 10.63 | 33.58 | 138 | 156 | A | V |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11a CH 140 5700MHz | * | 5700 | 103.56 | - | - | 94.18 | 32.27 | 10.67 | 33.56 | 100 | 117 | P | H |
| | * | 5700 | 96.23 | - | - | 86.85 | 32.27 | 10.67 | 33.56 | 100 | 117 | A | H |
| | | 5734.68 | 60.65 | -13.35 | 74 | 51.23 | 32.34 | 10.65 | 33.57 | 100 | 117 | P | H |
| | | 5726.12 | 48.51 | -5.49 | 54 | 39.12 | 32.31 | 10.65 | 33.57 | 100 | 117 | A | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| | * | 5699 | 99.89 | - | - | 90.51 | 32.27 | 10.67 | 33.56 | 262 | 91 | P | V |
| | * | 5699 | 92.88 | - | - | 83.5 | 32.27 | 10.67 | 33.56 | 262 | 91 | A | V |
| | | 5725.24 | 53.78 | -20.22 | 74 | 44.39 | 32.31 | 10.65 | 33.57 | 262 | 91 | P | V |
| | | 5725.64 | 45.69 | -8.31 | 54 | 36.3 | 32.31 | 10.65 | 33.57 | 262 | 91 | A | 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 (Harmonic @ 3m)**

| WIFI Ant. 1+2 | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11a CH 100 5500MHz | | 11000 | 49.12 | -24.88 | 74 | 60.55 | 40.3 | 15.27 | 67 | 100 | 0 | P | H |
| | | 16500 | 48.03 | -25.97 | 74 | 54.84 | 38.9 | 18.29 | 64 | 100 | 0 | P | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| | | 11000 | 49.35 | -24.65 | 74 | 60.78 | 40.3 | 15.27 | 67 | 100 | 0 | P | V |
| | | 16500 | 47.81 | -26.19 | 74 | 54.62 | 38.9 | 18.29 | 64 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| 802.11a CH 116 5580MHz | | 11160 | 50.83 | -23.17 | 74 | 61.85 | 40.17 | 15.38 | 66.57 | 100 | 0 | P | H |
| | | 16740 | 41.98 | -32.02 | 74 | 47.91 | 39.58 | 18.39 | 63.9 | 100 | 0 | P | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| | | 11160 | 49.69 | -24.31 | 74 | 60.71 | 40.17 | 15.38 | 66.57 | 100 | 0 | P | V |
| | | 16740 | 39.14 | -34.86 | 74 | 45.07 | 39.58 | 18.39 | 63.9 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| 802.11a CH 140 5700MHz | | 11400 | 49.55 | -24.45 | 74 | 60 | 39.98 | 15.53 | 65.96 | 100 | 0 | P | H |
| | | 17100 | 41.91 | -32.09 | 74 | 46.7 | 40.6 | 18.53 | 63.92 | 100 | 0 | P | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| | | 11400 | 46.69 | -27.31 | 74 | 57.14 | 39.98 | 15.53 | 65.96 | 100 | 0 | P | V |
| | | 17100 | 41.48 | -32.52 | 74 | 46.27 | 40.6 | 18.53 | 63.92 | 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 3 - 5470~5725MHz**

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

| WIFI Ant. 1+2 | Note | Frequency ( MHz ) | Level ( dBμV/m ) | Over Limit ( dB ) | Limit Line ( dBμV/m ) | Read Level (dBμV) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 5465.36 | 58.78 | -15.22 | 74 | 49.49 | 31.96 | 10.81 | 33.48 | 100 | 118 | P | H |
| | | 5470 | 51.73 | -2.27 | 54 | 42.44 | 31.96 | 10.81 | 33.48 | 100 | 118 | A | H |
| | * | 5500 | 107.33 | - | - | 98 | 32 | 10.81 | 33.48 | 100 | 118 | P | H |
| | * | 5500 | 99.11 | - | - | 89.78 | 32 | 10.81 | 33.48 | 100 | 118 | A | H |
| 802.11n | | | | | | | | | | | | | H |
| HT20 | | | | | | | | | | | | | H |
| CH 100 | | 5465.04 | 55.91 | -18.09 | 74 | 46.62 | 31.96 | 10.81 | 33.48 | 277 | 78 | P | V |
| 5500MHz | | 5470 | 46.02 | -7.98 | 54 | 36.73 | 31.96 | 10.81 | 33.48 | 277 | 78 | A | V |
| | * | 5500 | 101.45 | - | - | 92.12 | 32 | 10.81 | 33.48 | 277 | 78 | P | V |
| | * | 5500 | 93.63 | - | - | 84.3 | 32 | 10.81 | 33.48 | 277 | 78 | A | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | 5435.92 | 48.04 | -25.96 | 74 | 38.76 | 31.92 | 10.84 | 33.48 | 195 | 120 | P | H |
| | | 5467.92 | 39.44 | -14.56 | 54 | 30.15 | 31.96 | 10.81 | 33.48 | 195 | 120 | A | H |
| | * | 5580 | 107.31 | - | - | 97.99 | 32.1 | 10.74 | 33.52 | 195 | 120 | P | H |
| | * | 5580 | 98.91 | - | - | 89.59 | 32.1 | 10.74 | 33.52 | 195 | 120 | A | H |
| 802.11n | | 5726.52 | 48.2 | -25.8 | 74 | 38.81 | 32.31 | 10.65 | 33.57 | 195 | 120 | P | H |
| HT20 | | 5761.08 | 39.65 | -14.35 | 54 | 30.24 | 32.36 | 10.63 | 33.58 | 195 | 120 | A | H |
| CH 116 | | 5397.36 | 49.07 | -24.93 | 74 | 39.8 | 31.88 | 10.87 | 33.48 | 221 | 98 | P | V |
| 5580MHz | | 5469.52 | 39.46 | -14.54 | 54 | 30.17 | 31.96 | 10.81 | 33.48 | 221 | 98 | A | V |
| | * | 5580 | 102.72 | - | - | 93.4 | 32.1 | 10.74 | 33.52 | 221 | 98 | P | V |
| | * | 5580 | 94.17 | - | - | 84.85 | 32.1 | 10.74 | 33.52 | 221 | 98 | A | V |
| | | 5757.24 | 48.01 | -25.99 | 74 | 38.6 | 32.36 | 10.63 | 33.58 | 221 | 98 | P | V |
| | | 5756.68 | 39.59 | -14.41 | 54 | 30.18 | 32.36 | 10.63 | 33.58 | 221 | 98 | A | V |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | * | 5700 | 103.11 | - | - | 93.73 | 32.27 | 10.67 | 33.56 | 184 | 117 | P | H |
| | * | 5700 | 95.96 | - | - | 86.58 | 32.27 | 10.67 | 33.56 | 184 | 117 | A | H |
| | | 5729.08 | 58.51 | -15.49 | 74 | 49.12 | 32.31 | 10.65 | 33.57 | 184 | 117 | P | H |
| | | 5725.24 | 48.03 | -5.97 | 54 | 38.64 | 32.31 | 10.65 | 33.57 | 184 | 117 | A | H |
| **802.11n** | | | | | | | | | | | | | H |
| **HT20** | | | | | | | | | | | | | H |
| **CH 140** | * | 5700 | 99.61 | - | - | 90.23 | 32.27 | 10.67 | 33.56 | 262 | 91 | P | V |
| **5700MHz** | * | 5700 | 92.74 | - | - | 83.36 | 32.27 | 10.67 | 33.56 | 262 | 91 | A | V |
| | | 5731.4 | 59.17 | -14.83 | 74 | 49.78 | 32.31 | 10.65 | 33.57 | 262 | 91 | P | V |
| | | 5725.16 | 45.8 | -8.2 | 54 | 36.41 | 32.31 | 10.65 | 33.57 | 262 | 91 | A | 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 Ant. 1+2 | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11000 | 53.56 | -20.44 | 74 | 64.99 | 40.3 | 15.27 | 67 | 100 | 102 | P | H |
| | | 11000 | 45.38 | -8.62 | 54 | 56.81 | 40.3 | 15.27 | 67 | 100 | 102 | A | H |
| 802.11n | | 16500 | 48.35 | -25.65 | 74 | 55.16 | 38.9 | 18.29 | 64 | 100 | 0 | P | H |
| HT20 | | | | | | | | | | | | | H |
| CH 100 | | 11000 | 50.27 | -23.73 | 74 | 61.7 | 40.3 | 15.27 | 67 | 100 | 0 | P | V |
| 5500MHz | | 16500 | 44.06 | -29.94 | 74 | 50.87 | 38.9 | 18.29 | 64 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | 11160 | 54.99 | -19.01 | 74 | 66.01 | 40.17 | 15.38 | 66.57 | 229 | 104 | P | H |
| | | 11160 | 44.95 | -9.05 | 54 | 55.97 | 40.17 | 15.38 | 66.57 | 229 | 104 | A | H |
| 802.11n | | 16740 | 43.28 | -30.72 | 74 | 49.21 | 39.58 | 18.39 | 63.9 | 100 | 0 | P | H |
| HT20 | | | | | | | | | | | | | H |
| CH 116 | | 11160 | 51.34 | -22.66 | 74 | 62.36 | 40.17 | 15.38 | 66.57 | 178 | 186 | P | V |
| 5580MHz | | 11160 | 42.9 | -11.1 | 54 | 53.92 | 40.17 | 15.38 | 66.57 | 178 | 186 | A | V |
| | | 16740 | 40.46 | -33.54 | 74 | 46.39 | 39.58 | 18.39 | 63.9 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| | | 11400 | 52.96 | -21.04 | 74 | 63.41 | 39.98 | 15.53 | 65.96 | 381 | 320 | P | H |
| | | 11400 | 44.46 | -9.54 | 54 | 54.91 | 39.98 | 15.53 | 65.96 | 381 | 320 | A | H |
| 802.11n | | 17100 | 42.53 | -31.47 | 74 | 47.32 | 40.6 | 18.53 | 63.92 | 100 | 0 | P | H |
| HT20 | | | | | | | | | | | | | H |
| CH 140 | | 11400 | 49.45 | -24.55 | 74 | 59.9 | 39.98 | 15.53 | 65.96 | 100 | 0 | P | V |
| 5700MHz | | 17100 | 41.98 | -32.02 | 74 | 46.77 | 40.6 | 18.53 | 63.92 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |

**Remark**

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

**Band 3 - 5470~5725MHz**

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

| WIFI Ant. 1+2 | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level ( dBµV ) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 5458.8 | 57.81 | -16.19 | 74 | 48.51 | 31.94 | 10.84 | 33.48 | 100 | 117 | P | H |
| | | 5469.52 | 62.1 | -6.2 | 68.3 | 52.81 | 31.96 | 10.81 | 33.48 | 100 | 117 | P | H |
| | | 5459.78 | 51.06 | -2.94 | 54 | 41.76 | 31.94 | 10.84 | 33.48 | 100 | 117 | A | H |
| | * | 5510 | 101 | - | - | 91.72 | 32 | 10.77 | 33.49 | 100 | 117 | P | H |
| 802.11n | * | 5510 | 92.9 | - | - | 83.62 | 32 | 10.77 | 33.49 | 100 | 117 | A | H |
| HT40 | | 5743.4 | 47.31 | -20.99 | 68.3 | 37.91 | 32.34 | 10.63 | 33.57 | 100 | 117 | P | H |
| CH 102 | | 5457.2 | 54.61 | -19.39 | 74 | 45.31 | 31.94 | 10.84 | 33.48 | 223 | 153 | P | V |
| 5510MHz | | 5470 | 57.34 | -10.96 | 68.3 | 48.05 | 31.96 | 10.81 | 33.48 | 223 | 153 | P | V |
| | | 5458.68 | 45 | -9 | 54 | 35.7 | 31.94 | 10.84 | 33.48 | 223 | 153 | A | V |
| | * | 5510 | 94.79 | - | - | 85.51 | 32 | 10.77 | 33.49 | 223 | 153 | P | V |
| | * | 5510 | 86.41 | - | - | 77.13 | 32 | 10.77 | 33.49 | 223 | 153 | A | V |
| | | 5750.6 | 47.95 | -20.35 | 68.3 | 38.55 | 32.34 | 10.63 | 33.57 | 223 | 153 | P | V |
| | | 5454 | 53.37 | -20.63 | 74 | 44.07 | 31.94 | 10.84 | 33.48 | 100 | 117 | P | H |
| | | 5461.84 | 42.78 | -11.22 | 54 | 33.51 | 31.94 | 10.81 | 33.48 | 100 | 117 | A | H |
| | * | 5550 | 101.06 | - | - | 91.75 | 32.07 | 10.74 | 33.5 | 100 | 117 | P | H |
| | * | 5550 | 93.77 | - | - | 84.46 | 32.07 | 10.74 | 33.5 | 100 | 117 | A | H |
| 802.11n | | 5737.88 | 49.06 | -24.94 | 74 | 39.64 | 32.34 | 10.65 | 33.57 | 100 | 117 | P | H |
| HT40 | | 5763.4 | 39.91 | -14.09 | 54 | 30.5 | 32.36 | 10.63 | 33.58 | 100 | 117 | A | H |
| CH 110 | | 5448.88 | 48.02 | -25.98 | 74 | 38.72 | 31.94 | 10.84 | 33.48 | 179 | 153 | P | V |
| 5550MHz | | 5468.24 | 40.71 | -13.29 | 54 | 31.42 | 31.96 | 10.81 | 33.48 | 179 | 153 | A | V |
| | * | 5550 | 95.16 | - | - | 85.85 | 32.07 | 10.74 | 33.5 | 179 | 153 | P | V |
| | * | 5550 | 88.06 | - | - | 78.75 | 32.07 | 10.74 | 33.5 | 179 | 153 | A | V |
| | | 5763.24 | 47.6 | -26.4 | 74 | 38.19 | 32.36 | 10.63 | 33.58 | 179 | 153 | P | V |
| | | 5750.84 | 40.16 | -13.84 | 54 | 30.76 | 32.34 | 10.63 | 33.57 | 179 | 153 | A | V |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 5428.88 | 47.43 | -26.57 | 74 | 38.15 | 31.92 | 10.84 | 33.48 | 100 | 117 | P | H |
| | | 5458.8 | 39.98 | -14.02 | 54 | 30.68 | 31.94 | 10.84 | 33.48 | 100 | 117 | A | H |
| | * | 5670 | 100.78 | - | - | 91.42 | 32.24 | 10.67 | 33.55 | 100 | 117 | P | H |
| | * | 5670 | 92.49 | - | - | 83.13 | 32.24 | 10.67 | 33.55 | 100 | 117 | A | H |
| **802.11n** | | 5728.12 | 54.52 | -19.48 | 74 | 45.13 | 32.31 | 10.65 | 33.57 | 100 | 117 | P | H |
| **HT40** | | 5725.08 | 47.99 | -6.01 | 54 | 38.6 | 32.31 | 10.65 | 33.57 | 100 | 117 | A | H |
| **CH 134** | | 5470 | 48.24 | -25.76 | 74 | 38.95 | 31.96 | 10.81 | 33.48 | 173 | 150 | P | V |
| **5670MHz** | | 5464.56 | 40.18 | -13.82 | 54 | 30.89 | 31.96 | 10.81 | 33.48 | 173 | 150 | A | V |
| | * | 5670 | 93.85 | - | - | 84.49 | 32.24 | 10.67 | 33.55 | 173 | 150 | P | V |
| | * | 5670 | 87.06 | - | - | 77.7 | 32.24 | 10.67 | 33.55 | 173 | 150 | A | V |
| | | 5725.4 | 49.68 | -24.32 | 74 | 40.29 | 32.31 | 10.65 | 33.57 | 173 | 150 | P | V |
| | | 5725 | 42.73 | -11.27 | 54 | 33.34 | 32.31 | 10.65 | 33.57 | 173 | 150 | 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 802.11n HT40 (Harmonic @ 3m)**

| WIFI Ant. 1+2 | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level ( dBµV ) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11020 | 49.89 | -24.11 | 74 | 61.29 | 40.29 | 15.27 | 66.96 | 100 | 0 | P | H |
| | | 16530 | 39.69 | -28.61 | 68.3 | 46.37 | 39 | 18.31 | 63.99 | 100 | 0 | P | H |
| 802.11n | | | | | | | | | | | | | H |
| HT40 | | | | | | | | | | | | | H |
| CH 102 | | 11020 | 47.77 | -26.23 | 74 | 59.17 | 40.29 | 15.27 | 66.96 | 100 | 0 | P | V |
| 5510MHz | | 16530 | 38.74 | -29.56 | 68.3 | 45.42 | 39 | 18.31 | 63.99 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | 11100 | 49.18 | -24.82 | 74 | 60.37 | 40.22 | 15.33 | 66.74 | 100 | 0 | P | H |
| | | 16650 | 41.56 | -32.44 | 74 | 47.81 | 39.33 | 18.36 | 63.94 | 100 | 0 | P | H |
| 802.11n | | | | | | | | | | | | | H |
| HT40 | | | | | | | | | | | | | H |
| CH 110 | | 11100 | 47.81 | -26.19 | 74 | 59 | 40.22 | 15.33 | 66.74 | 100 | 0 | P | V |
| 5550MHz | | 16650 | 39.85 | -34.15 | 74 | 46.1 | 39.33 | 18.36 | 63.94 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | 11340 | 48.99 | -25.01 | 74 | 59.61 | 40.03 | 15.48 | 66.13 | 100 | 0 | P | H |
| | | 17010 | 41.75 | -32.25 | 74 | 46.72 | 40.35 | 18.5 | 63.82 | 100 | 0 | P | H |
| 802.11n | | | | | | | | | | | | | H |
| HT40 | | | | | | | | | | | | | H |
| CH 134 | | 11340 | 47.83 | -26.17 | 74 | 58.45 | 40.03 | 15.48 | 66.13 | 100 | 0 | P | V |
| 5670MHz | | 17010 | 40.77 | -33.23 | 74 | 45.74 | 40.35 | 18.5 | 63.82 | 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 VHT20 (Band Edge @ 3m)**

| WIFI Ant. 1+2 | Note | Frequency ( MHz ) | Level ( dBμV/m ) | Over Limit ( dB ) | Limit Line ( dBμV/m ) | Read Level (dBμV) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 5459.92 | 54.64 | -19.36 | 74 | 45.34 | 31.94 | 10.84 | 33.48 | 100 | 117 | P | H |
| | | 5464.4 | 61.73 | -6.57 | 68.3 | 52.44 | 31.96 | 10.81 | 33.48 | 100 | 117 | P | H |
| | | 5457.8 | 49.11 | -4.89 | 54 | 39.81 | 31.94 | 10.84 | 33.48 | 100 | 117 | A | H |
| | * | 5500 | 107.83 | - | - | 98.5 | 32 | 10.81 | 33.48 | 100 | 117 | P | H |
| 802.11ac | * | 5500 | 100.64 | - | - | 91.31 | 32 | 10.81 | 33.48 | 100 | 117 | A | H |
| VHT20 | | | | | | | | | | | | | H |
| CH 100 | | 5457.84 | 49.68 | -24.32 | 74 | 40.38 | 31.94 | 10.84 | 33.48 | 195 | 154 | P | V |
| 5500MHz | | 5469.2 | 54.95 | -13.35 | 68.3 | 45.66 | 31.96 | 10.81 | 33.48 | 195 | 154 | P | V |
| | | 5455.93 | 44.31 | -9.69 | 54 | 35.01 | 31.94 | 10.84 | 33.48 | 195 | 154 | A | V |
| | * | 5500 | 101.63 | - | - | 92.3 | 32 | 10.81 | 33.48 | 195 | 154 | P | V |
| | * | 5500 | 94.2 | - | - | 84.87 | 32 | 10.81 | 33.48 | 195 | 154 | A | V |
| | | | | | | | | | | | | | V |
| | | 5406.48 | 48.32 | -25.68 | 74 | 39.05 | 31.88 | 10.87 | 33.48 | 100 | 112 | P | H |
| | | 5458 | 40.24 | -13.76 | 54 | 30.94 | 31.94 | 10.84 | 33.48 | 100 | 112 | A | H |
| | * | 5580 | 107.69 | - | - | 98.37 | 32.1 | 10.74 | 33.52 | 100 | 112 | P | H |
| | * | 5580 | 100.58 | - | - | 91.26 | 32.1 | 10.74 | 33.52 | 100 | 112 | A | H |
| 802.11ac | | 5764.92 | 48.02 | -25.98 | 74 | 38.61 | 32.36 | 10.63 | 33.58 | 100 | 112 | P | H |
| VHT20 | | 5743 | 40.14 | -13.86 | 54 | 30.74 | 32.34 | 10.63 | 33.57 | 100 | 112 | A | H |
| CH 116 | | 5436.72 | 47.77 | -26.23 | 74 | 38.49 | 31.92 | 10.84 | 33.48 | 190 | 156 | P | V |
| 5580MHz | | 5462.8 | 39.83 | -14.17 | 54 | 30.54 | 31.96 | 10.81 | 33.48 | 190 | 156 | A | V |
| | * | 5580 | 100.23 | - | - | 90.91 | 32.1 | 10.74 | 33.52 | 190 | 156 | P | V |
| | * | 5580 | 93.62 | - | - | 84.3 | 32.1 | 10.74 | 33.52 | 190 | 156 | A | V |
| | | 5747.56 | 48.07 | -25.93 | 74 | 38.67 | 32.34 | 10.63 | 33.57 | 190 | 156 | P | V |
| | | 5763.8 | 40.1 | -13.9 | 54 | 30.69 | 32.36 | 10.63 | 33.58 | 190 | 156 | A | V |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | * | 5700 | 104.8 | - | - | 95.42 | 32.27 | 10.67 | 33.56 | 100 | 116 | P | H |
| | * | 5700 | 97.76 | - | - | 88.38 | 32.27 | 10.67 | 33.56 | 100 | 116 | A | H |
| | | 5736.92 | 61.21 | -12.79 | 74 | 51.79 | 32.34 | 10.65 | 33.57 | 100 | 116 | P | H |
| | | 5725.64 | 50.82 | -3.18 | 54 | 41.43 | 32.31 | 10.65 | 33.57 | 100 | 116 | A | H |
| **802.11ac** | | | | | | | | | | | | | H |
| **VHT20** | | | | | | | | | | | | | H |
| **CH 140** | * | 5700 | 99.27 | - | - | 89.89 | 32.27 | 10.67 | 33.56 | 212 | 155 | P | V |
| **5700MHz** | * | 5700 | 91.27 | - | - | 81.89 | 32.27 | 10.67 | 33.56 | 212 | 155 | A | V |
| | | 5733.88 | 54.05 | -19.95 | 74 | 44.66 | 32.31 | 10.65 | 33.57 | 212 | 155 | P | V |
| | | 5725 | 44.05 | -9.95 | 54 | 34.66 | 32.31 | 10.65 | 33.57 | 212 | 155 | A | 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 VHT20 (Harmonic @ 3m)**

| WIFI Ant. 1+2 | Note | Frequency ( MHz ) | Level ( dBμV/m ) | Over Limit ( dB ) | Limit Line ( dBμV/m ) | Read Level (dBμV) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11000 | 50.71 | -23.29 | 74 | 62.14 | 40.3 | 15.27 | 67 | 100 | 0 | P | H |
| | | 16500 | 40.3 | -28 | 68.3 | 47.11 | 38.9 | 18.29 | 64 | 100 | 0 | P | H |
| 802.11ac | | | | | | | | | | | | | H |
| VHT20 | | | | | | | | | | | | | H |
| CH 100 | | 11000 | 49.63 | -24.37 | 74 | 61.06 | 40.3 | 15.27 | 67 | 100 | 0 | P | V |
| 5500MHz | | 16500 | 37.86 | -30.44 | 68.3 | 44.67 | 38.9 | 18.29 | 64 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | 11160 | 49.85 | -24.15 | 74 | 60.87 | 40.17 | 15.38 | 66.57 | 100 | 0 | P | H |
| | | 16740 | 38.89 | -35.11 | 74 | 44.82 | 39.58 | 18.39 | 63.9 | 100 | 0 | P | H |
| 802.11ac | | | | | | | | | | | | | H |
| VHT20 | | | | | | | | | | | | | H |
| CH 116 | | 11160 | 48.48 | -25.52 | 74 | 59.5 | 40.17 | 15.38 | 66.57 | 100 | 0 | P | V |
| 5580MHz | | 16740 | 40.6 | -33.4 | 74 | 46.53 | 39.58 | 18.39 | 63.9 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | 11400 | 49.7 | -24.3 | 74 | 60.15 | 39.98 | 15.53 | 65.96 | 100 | 0 | P | H |
| | | 17100 | 41.17 | -32.83 | 74 | 45.96 | 40.6 | 18.53 | 63.92 | 100 | 0 | P | H |
| 802.11ac | | | | | | | | | | | | | H |
| VHT20 | | | | | | | | | | | | | H |
| CH 140 | | 11400 | 48.43 | -25.57 | 74 | 58.88 | 39.98 | 15.53 | 65.96 | 100 | 0 | P | V |
| 5700MHz | | 17100 | 40.98 | -33.02 | 74 | 45.77 | 40.6 | 18.53 | 63.92 | 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 3 - 5470~5725MHz**

**WIFI 802.11ac VHT40 (Band Edge @ 3m)**

| WIFI Ant. 1+2 | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level ( dBµV ) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 5457.2 | 57.94 | -16.06 | 74 | 48.64 | 31.94 | 10.84 | 33.48 | 100 | 116 | P | H |
| | | 5469.36 | 61.78 | -6.52 | 68.3 | 52.49 | 31.96 | 10.81 | 33.48 | 100 | 116 | P | H |
| | | 5459.89 | 50.33 | -3.67 | 54 | 41.03 | 31.94 | 10.84 | 33.48 | 100 | 116 | A | H |
| | * | 5510 | 102.03 | - | - | 92.75 | 32 | 10.77 | 33.49 | 100 | 116 | P | H |
| 802.11ac | * | 5510 | 94.09 | - | - | 84.81 | 32 | 10.77 | 33.49 | 100 | 116 | A | H |
| VHT40 | | 5751.64 | 48.21 | -20.09 | 68.3 | 38.79 | 32.36 | 10.63 | 33.57 | 100 | 116 | P | H |
| CH 102 | | 5459.44 | 52.2 | -21.8 | 74 | 42.9 | 31.94 | 10.84 | 33.48 | 190 | 155 | P | V |
| 5510MHz | | 5468.56 | 58.47 | -9.83 | 68.3 | 49.18 | 31.96 | 10.81 | 33.48 | 190 | 155 | P | V |
| | | 5459.12 | 44.94 | -9.06 | 54 | 35.64 | 31.94 | 10.84 | 33.48 | 190 | 155 | A | V |
| | * | 5510 | 95.13 | - | - | 85.85 | 32 | 10.77 | 33.49 | 190 | 155 | P | V |
| | * | 5510 | 87.52 | - | - | 78.24 | 32 | 10.77 | 33.49 | 190 | 155 | A | V |
| | | 5739.56 | 47.83 | -20.47 | 68.3 | 38.41 | 32.34 | 10.65 | 33.57 | 190 | 155 | P | V |
| | | 5434.48 | 51.62 | -22.38 | 74 | 42.34 | 31.92 | 10.84 | 33.48 | 100 | 117 | P | H |
| | | 5468.24 | 42.72 | -11.28 | 54 | 33.43 | 31.96 | 10.81 | 33.48 | 100 | 117 | A | H |
| | * | 5550 | 102.85 | - | - | 93.54 | 32.07 | 10.74 | 33.5 | 100 | 117 | P | H |
| | * | 5550 | 94.95 | - | - | 85.64 | 32.07 | 10.74 | 33.5 | 100 | 117 | A | H |
| 802.11ac | | 5757.96 | 47.7 | -26.3 | 74 | 38.29 | 32.36 | 10.63 | 33.58 | 100 | 117 | P | H |
| VHT40 | | 5731.88 | 40.14 | -13.86 | 54 | 30.75 | 32.31 | 10.65 | 33.57 | 100 | 117 | A | H |
| CH 110 | | 5463.28 | 51.05 | -22.95 | 74 | 41.76 | 31.96 | 10.81 | 33.48 | 184 | 159 | P | V |
| 5550MHz | | 5461.36 | 40.52 | -13.48 | 54 | 31.25 | 31.94 | 10.81 | 33.48 | 184 | 159 | A | V |
| | * | 5550 | 96.02 | - | - | 86.71 | 32.07 | 10.74 | 33.5 | 184 | 159 | P | V |
| | * | 5550 | 88.12 | - | - | 78.81 | 32.07 | 10.74 | 33.5 | 184 | 159 | A | V |
| | | 5742.04 | 47.37 | -26.63 | 74 | 37.97 | 32.34 | 10.63 | 33.57 | 184 | 159 | P | V |
| | | 5761.8 | 40.09 | -13.91 | 54 | 30.68 | 32.36 | 10.63 | 33.58 | 184 | 159 | A | V |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 5454.32 | 47.33 | -26.67 | 74 | 38.03 | 31.94 | 10.84 | 33.48 | 100 | 114 | P | H |
| | | 5465.84 | 40.26 | -13.74 | 54 | 30.97 | 31.96 | 10.81 | 33.48 | 100 | 114 | A | H |
| | * | 5670 | 100.58 | - | - | 91.22 | 32.24 | 10.67 | 33.55 | 100 | 114 | P | H |
| | * | 5670 | 93 | - | - | 83.64 | 32.24 | 10.67 | 33.55 | 100 | 114 | A | H |
| **802.11ac** | | 5726.36 | 54.59 | -19.41 | 74 | 45.2 | 32.31 | 10.65 | 33.57 | 100 | 114 | P | H |
| **VHT40** | | 5725.48 | 47.62 | -6.38 | 54 | 38.23 | 32.31 | 10.65 | 33.57 | 100 | 114 | A | H |
| **CH 134** | | 5417.68 | 48.45 | -25.55 | 74 | 39.16 | 31.9 | 10.87 | 33.48 | 203 | 161 | P | V |
| **5670MHz** | | 5462.8 | 39.92 | -14.08 | 54 | 30.63 | 31.96 | 10.81 | 33.48 | 203 | 161 | A | V |
| | * | 5670 | 95.82 | - | - | 86.46 | 32.24 | 10.67 | 33.55 | 203 | 161 | P | V |
| | * | 5670 | 87.7 | - | - | 78.34 | 32.24 | 10.67 | 33.55 | 203 | 161 | A | V |
| | | 5729.64 | 51.78 | -22.22 | 74 | 42.39 | 32.31 | 10.65 | 33.57 | 203 | 161 | P | V |
| | | 5725.32 | 43.06 | -10.94 | 54 | 33.67 | 32.31 | 10.65 | 33.57 | 203 | 161 | A | V |

**Remark**

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

**Band 3 - 5470~5725MHz**

**WIFI 802.11ac VHT40 (Harmonic @ 3m)**

| WIFI Ant. 1+2 | Note | Frequency ( MHz ) | Level ( dBμV/m ) | Over Limit ( dB ) | Limit Line ( dBμV/m ) | Read Level ( dBμV ) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11020 | 47.55 | -26.45 | 74 | 58.95 | 40.29 | 15.27 | 66.96 | 100 | 0 | P | H |
| | | 16530 | 37.75 | -36.25 | 74 | 44.43 | 39 | 18.31 | 63.99 | 100 | 0 | P | H |
| 802.11ac | | | | | | | | | | | | | H |
| VHT40 | | | | | | | | | | | | | H |
| CH 102 | | 11020 | 45.85 | -28.15 | 74 | 57.25 | 40.29 | 15.27 | 66.96 | 100 | 0 | P | V |
| 5510MHz | | 16530 | 37.51 | -36.49 | 74 | 44.19 | 39 | 18.31 | 63.99 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | 11100 | 48.27 | -25.73 | 74 | 59.46 | 40.22 | 15.33 | 66.74 | 100 | 0 | P | H |
| | | 16650 | 39.79 | -34.21 | 74 | 46.04 | 39.33 | 18.36 | 63.94 | 100 | 0 | P | H |
| 802.11ac | | | | | | | | | | | | | H |
| VHT40 | | | | | | | | | | | | | H |
| CH 110 | | 11100 | 45.65 | -28.35 | 74 | 56.84 | 40.22 | 15.33 | 66.74 | 100 | 0 | P | V |
| 5550MHz | | 16650 | 39.22 | -34.78 | 74 | 45.47 | 39.33 | 18.36 | 63.94 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | 11340 | 48.39 | -25.61 | 74 | 59.01 | 40.03 | 15.48 | 66.13 | 100 | 0 | P | H |
| | | 17010 | 40.76 | -33.24 | 74 | 45.73 | 40.35 | 18.5 | 63.82 | 100 | 0 | P | H |
| 802.11ac | | | | | | | | | | | | | H |
| VHT40 | | | | | | | | | | | | | H |
| CH 134 | | 11340 | 46.59 | -27.41 | 74 | 57.21 | 40.03 | 15.48 | 66.13 | 100 | 0 | P | V |
| 5670MHz | | 17010 | 40.04 | -33.96 | 74 | 45.01 | 40.35 | 18.5 | 63.82 | 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 Ant. 1+2 | Note | Frequency ( MHz ) | Level ( dBμV/m ) | Over Limit ( dB ) | Limit Line ( dBμV/m ) | Read Level (dBμV) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 5458.96 | 53.49 | -20.51 | 74 | 44.19 | 31.94 | 10.84 | 33.48 | 100 | 117 | P | H |
| | | 5469.36 | 46.59 | -7.41 | 54 | 37.3 | 31.96 | 10.81 | 33.48 | 100 | 117 | A | H |
| | * | 5530 | 94.53 | - | - | 85.24 | 32.02 | 10.77 | 33.5 | 100 | 117 | P | H |
| | * | 5530 | 86.97 | - | - | 77.68 | 32.02 | 10.77 | 33.5 | 100 | 117 | A | H |
| 802.11ac | | 5749.24 | 47.85 | -26.15 | 74 | 38.45 | 32.34 | 10.63 | 33.57 | 100 | 117 | P | H |
| VHT80 | | 5749.16 | 39.96 | -14.04 | 54 | 30.56 | 32.34 | 10.63 | 33.57 | 100 | 117 | A | H |
| CH 106 | | 5467.92 | 51.5 | -22.5 | 74 | 42.21 | 31.96 | 10.81 | 33.48 | 204 | 86 | P | V |
| 5530MHz | | 5469.2 | 43.25 | -10.75 | 54 | 33.96 | 31.96 | 10.81 | 33.48 | 204 | 86 | A | V |
| | * | 5530 | 90.1 | - | - | 80.81 | 32.02 | 10.77 | 33.5 | 204 | 86 | P | V |
| | * | 5530 | 80.6 | - | - | 71.31 | 32.02 | 10.77 | 33.5 | 204 | 86 | A | V |
| | | 5751.64 | 47.93 | -26.07 | 74 | 38.51 | 32.36 | 10.63 | 33.57 | 204 | 86 | P | V |
| | | 5753.96 | 39.87 | -14.13 | 54 | 30.45 | 32.36 | 10.63 | 33.57 | 204 | 86 | A | V |
| | | 5464.72 | 55.19 | -18.81 | 74 | 45.9 | 31.96 | 10.81 | 33.48 | 100 | 116 | P | H |
| | | 5467.76 | 48.03 | -5.97 | 54 | 38.74 | 31.96 | 10.81 | 33.48 | 100 | 116 | A | H |
| | * | 5610 | 100.53 | - | - | 91.21 | 32.14 | 10.71 | 33.53 | 100 | 116 | P | H |
| | * | 5610 | 91.73 | - | - | 82.41 | 32.14 | 10.71 | 33.53 | 100 | 116 | A | H |
| 802.11ac | | 5727.96 | 55.83 | -18.17 | 74 | 46.44 | 32.31 | 10.65 | 33.57 | 100 | 116 | P | H |
| VHT80 | | 5725.88 | 48.36 | -5.64 | 54 | 38.97 | 32.31 | 10.65 | 33.57 | 100 | 116 | A | H |
| CH 122 | | 5464.88 | 51.01 | -22.99 | 74 | 41.72 | 31.96 | 10.81 | 33.48 | 162 | 157 | P | V |
| 5610MHz | | 5466.96 | 42.95 | -11.05 | 54 | 33.66 | 31.96 | 10.81 | 33.48 | 162 | 157 | A | V |
| | * | 5610 | 93.21 | - | - | 83.89 | 32.14 | 10.71 | 33.53 | 162 | 157 | P | V |
| | * | 5610 | 85.07 | - | - | 75.75 | 32.14 | 10.71 | 33.53 | 162 | 157 | A | V |
| | | 5727.4 | 50.76 | -23.24 | 74 | 41.37 | 32.31 | 10.65 | 33.57 | 162 | 157 | P | V |
| | | 5729.16 | 43.62 | -10.38 | 54 | 34.23 | 32.31 | 10.65 | 33.57 | 162 | 157 | 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 Ant. 1+2 | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11060 | 42.15 | -31.85 | 74 | 53.43 | 40.25 | 15.3 | 66.83 | 100 | 0 | P | H |
| | | 16590 | 37.96 | -36.04 | 74 | 44.45 | 39.14 | 18.34 | 63.97 | 100 | 0 | P | H |
| 802.11ac | | | | | | | | | | | | | H |
| VHT80 | | | | | | | | | | | | | H |
| CH 106 | | 11060 | 41.62 | -32.38 | 74 | 52.9 | 40.25 | 15.3 | 66.83 | 100 | 0 | P | V |
| 5530MHz | | 16590 | 38.28 | -35.72 | 74 | 44.77 | 39.14 | 18.34 | 63.97 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | 11220 | 46.46 | -27.54 | 74 | 57.37 | 40.13 | 15.4 | 66.44 | 100 | 0 | P | H |
| | | 16830 | 40.92 | -33.08 | 74 | 46.53 | 39.82 | 18.44 | 63.87 | 100 | 0 | P | H |
| 802.11ac | | | | | | | | | | | | | H |
| VHT80 | | | | | | | | | | | | | H |
| CH 122 | | 11220 | 44.46 | -29.54 | 74 | 55.37 | 40.13 | 15.4 | 66.44 | 100 | 0 | P | V |
| 5610MHz | | 16830 | 39.22 | -34.78 | 74 | 44.83 | 39.82 | 18.44 | 63.87 | 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 | Cable | Preamp | Ant | Table | Peak | Pol. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1+2 | | ( MHz ) | ( dBµV/m ) | ( dB ) | ( dBµV/m ) | (dBµV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11a CH 144 5720MHz | * | 5720 | 102.61 | - | - | 93.22 | 32.31 | 10.65 | 33.57 | 100 | 117 | P | H |
| | * | 5720 | 96.4 | - | - | 87.01 | 32.31 | 10.65 | 33.57 | 100 | 117 | A | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| | * | 5720 | 100.18 | - | - | 90.79 | 32.31 | 10.65 | 33.57 | 272 | 95 | P | V |
| | * | 5720 | 91.87 | - | - | 82.48 | 32.31 | 10.65 | 33.57 | 272 | 95 | A | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | 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 (Harmonic @ 3m)**

| WIFI Ant. 1+2 | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11a CH 144 5720MHz | | 11440 | 55.59 | -18.41 | 74 | 65.95 | 39.95 | 15.56 | 65.87 | 278 | 28 | P | H |
| | | 11440 | 44.78 | -9.22 | 54 | 55.14 | 39.95 | 15.56 | 65.87 | 278 | 28 | A | H |
| | | 17160 | 42.28 | -31.72 | 74 | 46.91 | 40.8 | 18.57 | 64 | 100 | 0 | P | H |
| | | | | | | | | | | | | | H |
| | | 11440 | 48.99 | -25.01 | 74 | 59.35 | 39.95 | 15.56 | 65.87 | 100 | 0 | P | V |
| | | 17160 | 41.32 | -32.68 | 74 | 45.95 | 40.8 | 18.57 | 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 802.11n HT20 (Band Edge @ 3m)**

| WIFI Ant. 1+2 | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | * | 5720 | 104.25 | - | - | 94.86 | 32.31 | 10.65 | 33.57 | 100 | 114 | P | H |
| | * | 5720 | 96.93 | - | - | 87.54 | 32.31 | 10.65 | 33.57 | 100 | 114 | A | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| 802.11n | | | | | | | | | | | | | H |
| HT20 | | | | | | | | | | | | | H |
| CH 144 | * | 5720 | 100.88 | - | - | 91.49 | 32.31 | 10.65 | 33.57 | 259 | 105 | P | V |
| 5720MHz | * | 5720 | 93.27 | - | - | 83.88 | 32.31 | 10.65 | 33.57 | 259 | 105 | A | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |

**Remark**

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

**Band 3 - Straddle Channel**

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

| WIFI Ant. 1+2 | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11440 | 56.08 | -17.92 | 74 | 66.44 | 39.95 | 15.56 | 65.87 | 365 | 323 | P | H |
| | | 11440 | 44.71 | -9.29 | 54 | 55.07 | 39.95 | 15.56 | 65.87 | 365 | 323 | A | H |
| 802.11n | | 17160 | 43.83 | -30.17 | 74 | 48.46 | 40.8 | 18.57 | 64 | 100 | 0 | P | H |
| HT20 | | | | | | | | | | | | | H |
| CH 144 | | 11440 | 48.32 | -25.68 | 74 | 58.68 | 39.95 | 15.56 | 65.87 | 100 | 0 | P | V |
| 5720MHz | | 17160 | 40.79 | -33.21 | 74 | 45.42 | 40.8 | 18.57 | 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 802.11n HT40 (Band Edge @ 3m)**

| WIFI Ant. 1+2 | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level ( dBµV ) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | * | 5710 | 99.09 | - | - | 89.72 | 32.29 | 10.65 | 33.57 | 100 | 116 | P | H |
| | * | 5710 | 92.25 | - | - | 82.88 | 32.29 | 10.65 | 33.57 | 100 | 116 | A | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| 802.11n | | | | | | | | | | | | | H |
| HT40 | | | | | | | | | | | | | H |
| CH 142 | * | 5710 | 96.19 | - | - | 86.82 | 32.29 | 10.65 | 33.57 | 224 | 111 | P | V |
| 5710MHz | * | 5710 | 89.36 | - | - | 79.99 | 32.29 | 10.65 | 33.57 | 224 | 111 | A | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | 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 (Harmonic @ 3m)**

| WIFI Ant. 1+2 | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level ( dBµV ) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11420 | 47.34 | -26.66 | 74 | 57.76 | 39.97 | 15.53 | 65.92 | 100 | 0 | P | H |
| | | 17130 | 39.71 | -34.29 | 74 | 44.42 | 40.7 | 18.55 | 63.96 | 100 | 0 | P | H |
| 802.11n | | | | | | | | | | | | | H |
| HT40 | | | | | | | | | | | | | H |
| CH 142 | | 11420 | 45.9 | -28.1 | 74 | 56.32 | 39.97 | 15.53 | 65.92 | 100 | 0 | P | V |
| 5710MHz | | 17130 | 39.43 | -34.57 | 74 | 44.14 | 40.7 | 18.55 | 63.96 | 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 VHT20 (Band Edge @ 3m)**

| WIFI Ant. 1+2 | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | * | 5720 | 104.42 | - | - | 95.03 | 32.31 | 10.65 | 33.57 | 100 | 115 | P | H |
| | * | 5720 | 97.12 | - | - | 87.73 | 32.31 | 10.65 | 33.57 | 100 | 115 | A | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| 802.11ac | | | | | | | | | | | | | H |
| VHT20 | | | | | | | | | | | | | H |
| CH 144 | * | 5720 | 100.92 | - | - | 91.53 | 32.31 | 10.65 | 33.57 | 245 | 109 | P | V |
| 5720MHz | * | 5720 | 92.68 | - | - | 83.29 | 32.31 | 10.65 | 33.57 | 245 | 109 | A | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | 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 VHT20 (Harmonic @ 3m)**

| WIFI Ant. 1+2 | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11440 | 50.88 | -23.12 | 74 | 61.24 | 39.95 | 15.56 | 65.87 | 100 | 0 | P | H |
| | | 17160 | 41.15 | -32.85 | 74 | 45.78 | 40.8 | 18.57 | 64 | 100 | 0 | P | H |
| 802.11ac | | | | | | | | | | | | | H |
| VHT20 | | | | | | | | | | | | | H |
| CH 144 | | 11440 | 48.02 | -25.98 | 74 | 58.38 | 39.95 | 15.56 | 65.87 | 100 | 0 | P | V |
| 5720MHz | | 17160 | 39.87 | -34.13 | 74 | 44.5 | 40.8 | 18.57 | 64 | 100 | 0 | P | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |

**Remark**

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

**Band 3 - Straddle Channel**

**WIFI 802.11ac VHT40 (Band Edge @ 3m)**

| WIFI Ant. 1+2 | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level ( dBµV ) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | * | 5710 | 99.59 | - | - | 90.22 | 32.29 | 10.65 | 33.57 | 100 | 115 | P | H |
| | * | 5710 | 92.31 | - | - | 82.94 | 32.29 | 10.65 | 33.57 | 100 | 115 | A | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| 802.11ac | | | | | | | | | | | | | H |
| VHT40 | | | | | | | | | | | | | H |
| CH 142 | * | 5710 | 95.69 | - | - | 86.32 | 32.29 | 10.65 | 33.57 | 260 | 110 | P | V |
| 5710MHz | * | 5710 | 88.69 | - | - | 79.32 | 32.29 | 10.65 | 33.57 | 260 | 110 | A | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | 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 VHT40 (Harmonic @ 3m)**

| WIFI Ant. 1+2 | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level ( dBµV ) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11420 | 47.68 | -26.32 | 74 | 58.1 | 39.97 | 15.53 | 65.92 | 100 | 0 | P | H |
| | | 17130 | 40.78 | -33.22 | 74 | 45.49 | 40.7 | 18.55 | 63.96 | 100 | 0 | P | H |
| 802.11ac | | | | | | | | | | | | | H |
| VHT40 | | | | | | | | | | | | | H |
| CH 142 | | 11420 | 46.44 | -27.56 | 74 | 56.86 | 39.97 | 15.53 | 65.92 | 100 | 0 | P | V |
| 5710MHz | | 17130 | 40.57 | -33.43 | 74 | 45.28 | 40.7 | 18.55 | 63.96 | 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 Ant. 1+2 | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | * | 5690 | 98.58 | - | - | 89.2 | 32.27 | 10.67 | 33.56 | 100 | 116 | P | H |
| | * | 5690 | 90.49 | - | - | 81.11 | 32.27 | 10.67 | 33.56 | 100 | 116 | A | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| 802.11ac | | | | | | | | | | | | | H |
| VHT80 | | | | | | | | | | | | | H |
| CH 138 | * | 5690 | 93.89 | - | - | 84.51 | 32.27 | 10.67 | 33.56 | 261 | 97 | P | V |
| 5690MHz | * | 5690 | 85.62 | - | - | 76.24 | 32.27 | 10.67 | 33.56 | 261 | 97 | A | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | 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 (Harmonic @ 3m)**

| WIFI Ant. 1+2 | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Cable Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11380 | 46.6 | -27.4 | 74 | 57.1 | 39.99 | 15.51 | 66 | 100 | 0 | P | H |
| | | 17070 | 39.41 | -34.59 | 74 | 44.26 | 40.5 | 18.53 | 63.88 | 100 | 0 | P | H |
| 802.11ac | | | | | | | | | | | | | H |
| VHT80 | | | | | | | | | | | | | H |
| CH 138 | | 11380 | 44.54 | -29.46 | 74 | 55.04 | 39.99 | 15.51 | 66 | 100 | 0 | P | V |
| 5690MHz | | 17070 | 39.57 | -34.43 | 74 | 44.42 | 40.5 | 18.53 | 63.88 | 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 | Cable | Preamp | Ant | Table | Peak | Pol. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1+2 | | ( MHz ) | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11ac VHT80 LF | | 82.92 | 24.54 | -15.46 | 40 | 41.1 | 14.06 | 1.17 | 31.79 | - | - | P | H |
| | | 144.48 | 32.27 | -11.23 | 43.5 | 44.7 | 17.67 | 1.68 | 31.78 | 200 | 160 | P | H |
| | | 234.12 | 29.52 | -16.48 | 46 | 42.09 | 17.22 | 1.98 | 31.77 | - | - | P | H |
| | | 422.5 | 25.17 | -20.83 | 46 | 30.49 | 22.82 | 3.68 | 31.82 | - | - | P | H |
| | | 741 | 28.91 | -17.09 | 46 | 29.76 | 27.52 | 3.62 | 31.99 | - | - | P | H |
| | | 952.4 | 32.47 | -13.53 | 46 | 29.01 | 30.59 | 3.89 | 31.02 | - | - | P | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| | | 30.27 | 32.16 | -7.84 | 40 | 37.36 | 25.7 | 0.93 | 31.83 | 100 | 76 | P | V |
| | | 142.86 | 28.46 | -15.04 | 43.5 | 40.8 | 17.76 | 1.68 | 31.78 | - | - | P | V |
| | | 233.31 | 29.08 | -16.92 | 46 | 41.65 | 17.22 | 1.98 | 31.77 | - | - | P | V |
| | | 419 | 24.51 | -21.49 | 46 | 31 | 22.75 | 2.58 | 31.82 | - | - | P | V |
| | | 703.2 | 28.52 | -17.48 | 46 | 30.26 | 26.76 | 3.54 | 32.04 | - | - | P | V |
| | | 946.8 | 32.99 | -13.01 | 46 | 29.64 | 30.52 | 3.89 | 31.06 | - | - | P | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| **Remark** | 1. No other spurious found.<br>2. All results are PASS against limit line. | | | | | | | | | | | | |

**Note symbol**

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

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

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Cable | Preamp | Ant | Table | Peak | Pol. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1+2 | | ( MHz ) | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11b CH 01 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. Level(dBμV/m) =

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

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

**For Peak Limit @ 2390MHz:**

1. Level(dBμV/m)

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

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

**For Average Limit @ 2390MHz:**

1. Level(dBμV/m)

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

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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

# Appendix C. Radiated Spurious Emission Plots

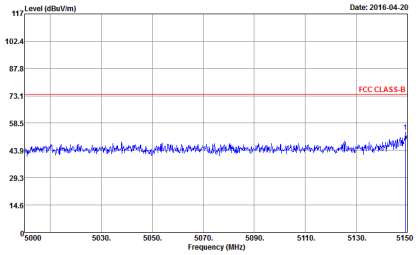
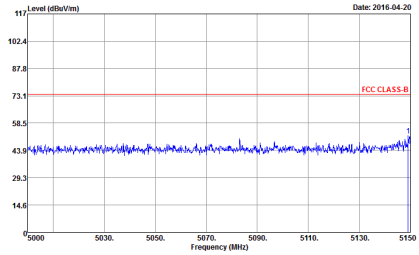
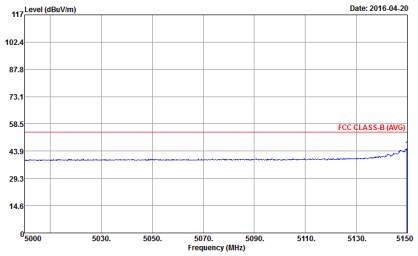
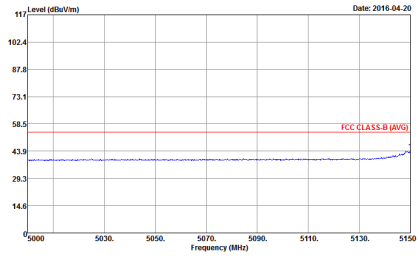
| | | | |
|---|---|---|---|
| **Test Engineer :** | J.C. Liang, Bill Chang, and Ken Wu | **Temperature :** | 19~21°C |
| | | **Relative Humidity :** | 50~55% |

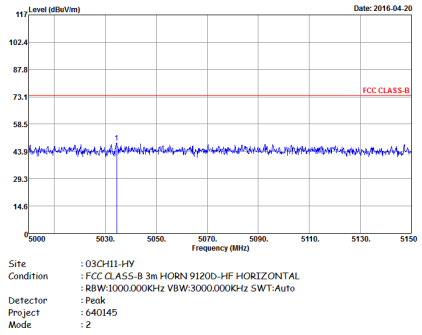
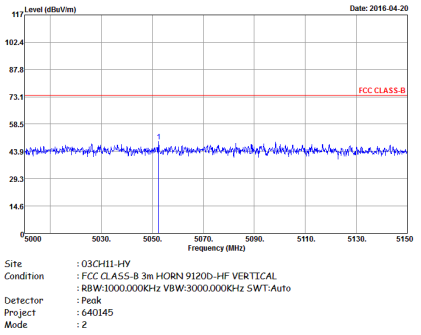
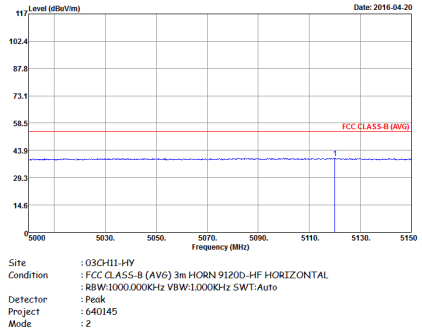
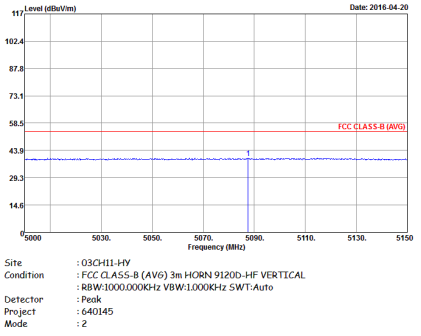
## Note symbol

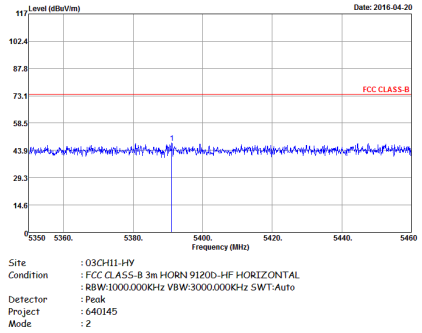
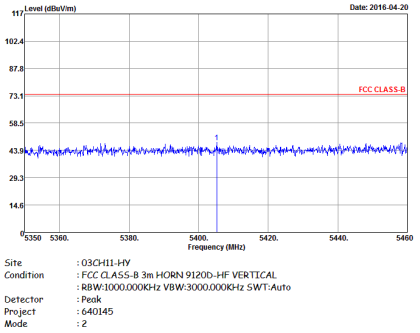
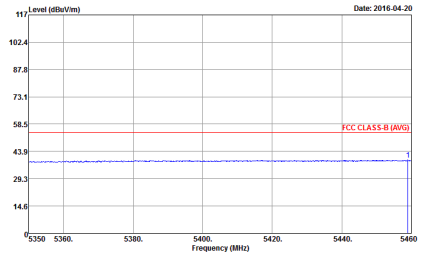
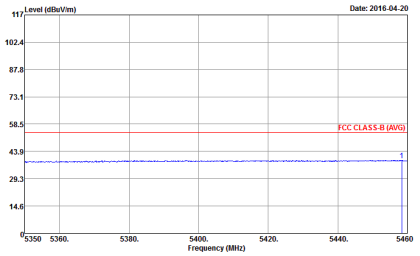
| | |
|---|---|
| -L | **Low channel location** |
| -R | **High channel location** |

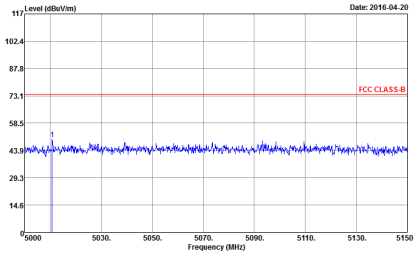
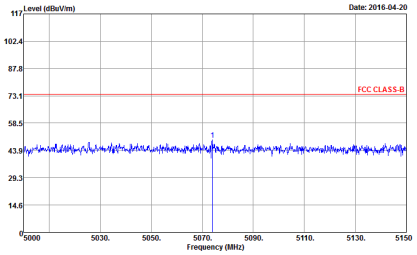
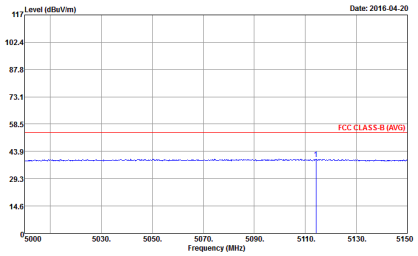
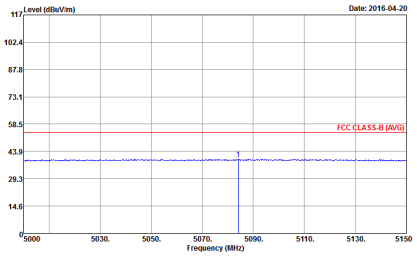
## Band 1 - 5150~5250MHz

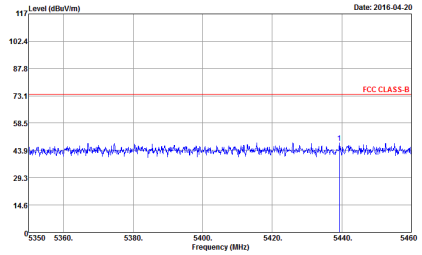
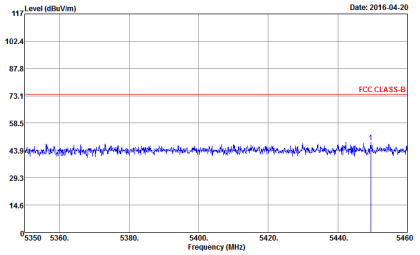
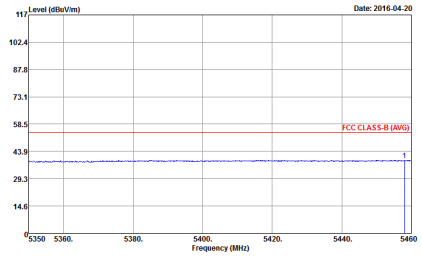
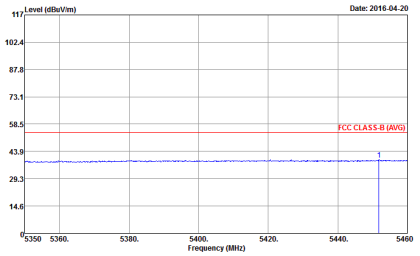
## WIFI 802.11a (Band Edge @ 3m)

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| ANT | 802.11a CH36 5180MHz | |
| 1+2 | Horizontal | Vertical |
| Peak |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 1 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 1 |
| Avg. |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 1 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 1 |

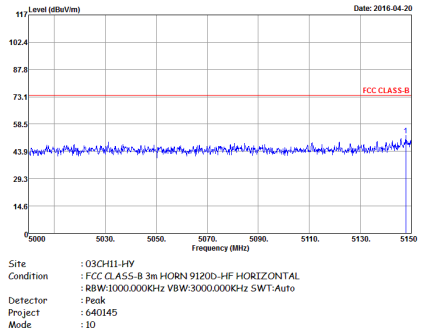
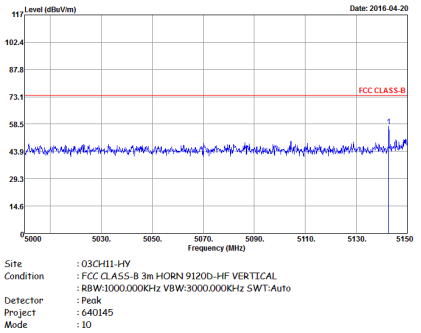
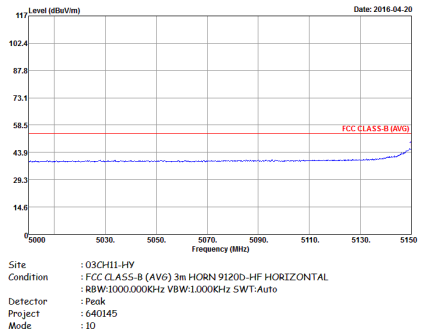
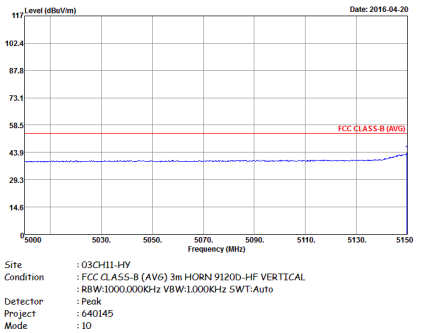
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| ANT | 802.11a CH44 5220MHz - L | |
| 1+2 | Horizontal | Vertical |
| Peak |  |  |
| Avg. |  |  |

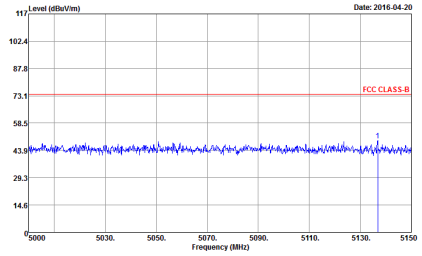
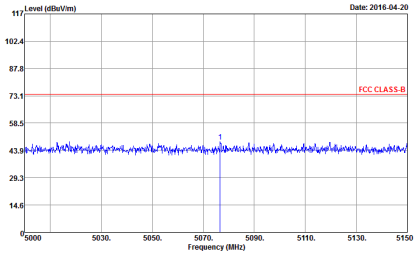
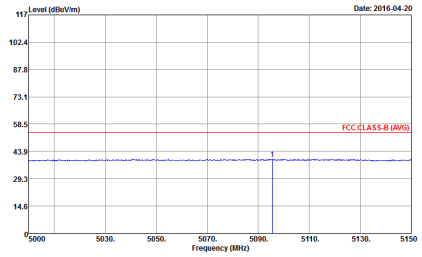
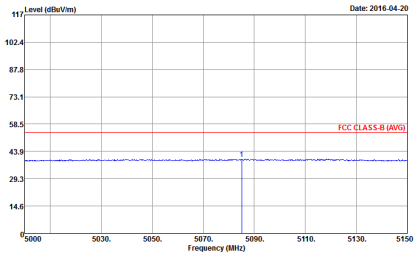
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| ANT | 802.11a CH44 5220MHz - R | |
| 1+2 | Horizontal | Vertical |
| Peak |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 2 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 2 |
| Avg. |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 2 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 2 |

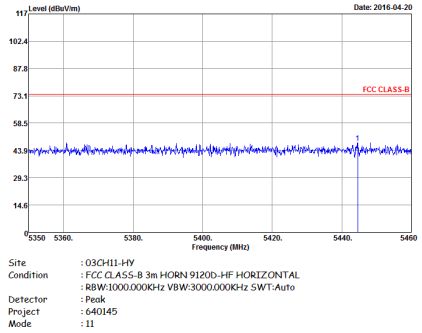
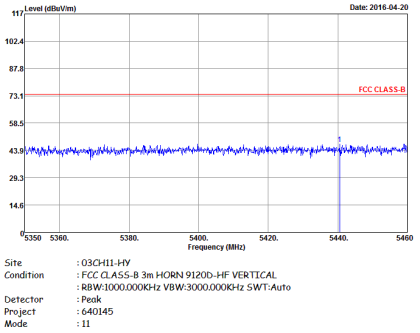
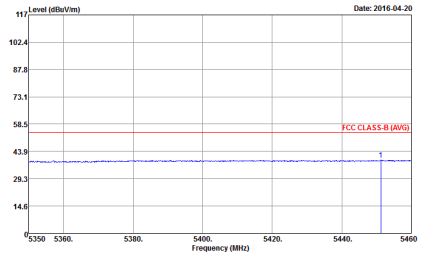
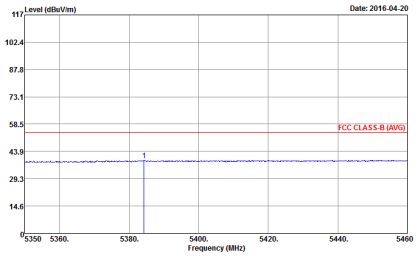
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| ANT | 802.11a CH48 5240MHz - L | |
| 1+2 | Horizontal | Vertical |
| Peak |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 3 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 3 |
| Avg. |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AV6) 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 3 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AV6) 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 3 |

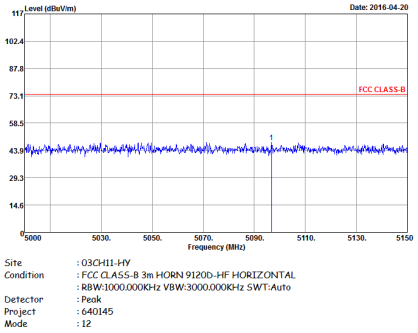
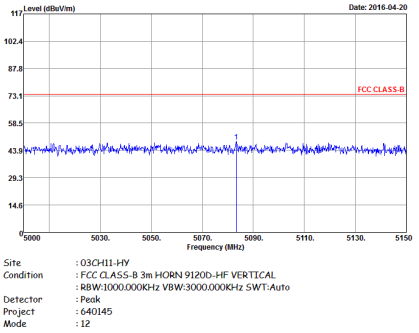
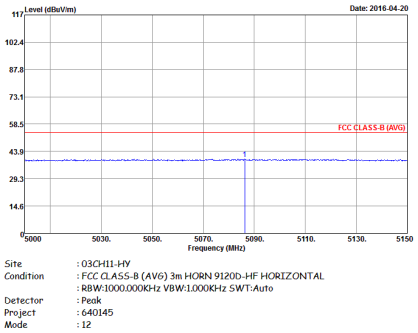
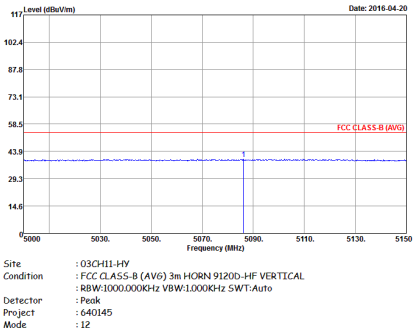
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| ANT | 802.11a CH48 5240MHz - R | |
| 1+2 | Horizontal | Vertical |
| Peak |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 3 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 3 |
| Avg. |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 3 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 3 |

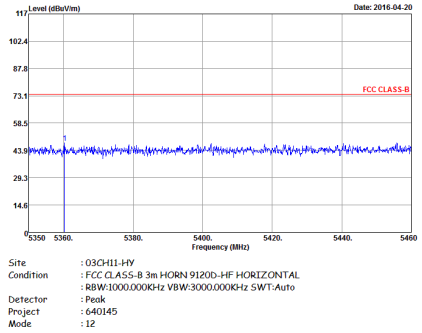
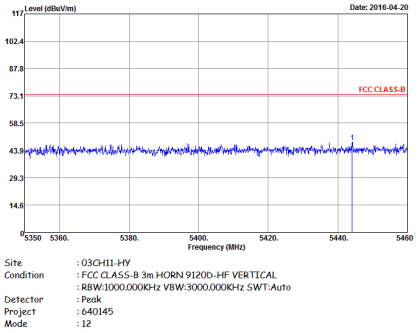
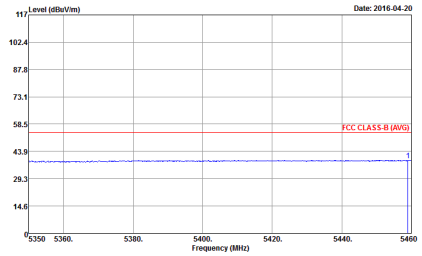
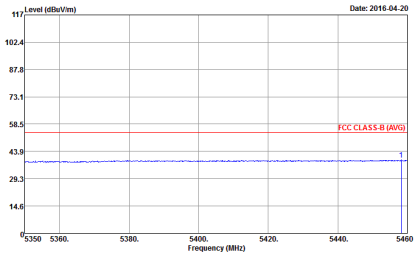
## Band 1 5150~5250MHz
## WIFI 802.11n HT20 (Band Edge @ 3m)

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| ANT | 802.11n HT20 CH36 5180MHz | |
| 1+2 | Horizontal | Vertical |
| Peak |  |  |
| Avg. |  |  |

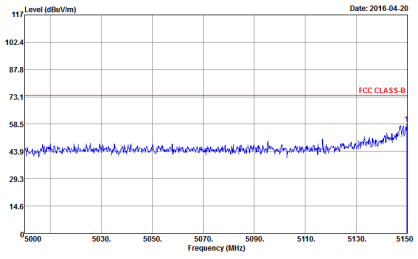
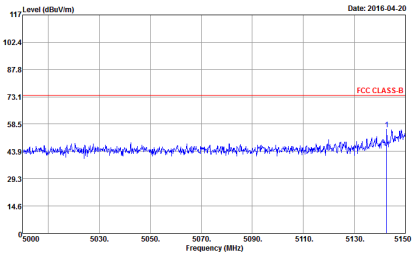
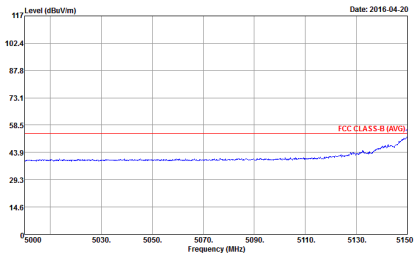
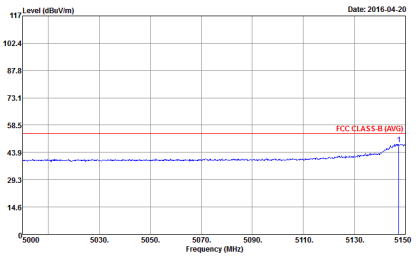
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| ANT | 802.11n HT20 CH44 5220MHz - L | |
| 1+2 | Horizontal | Vertical |
| Peak |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 11 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 11 |
| Avg. |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AV6) 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 11 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AV6) 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 11 |

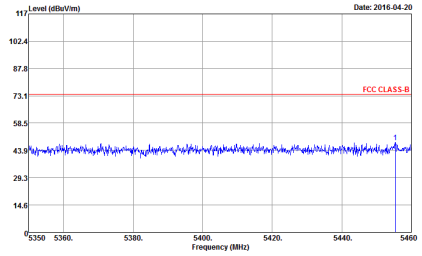
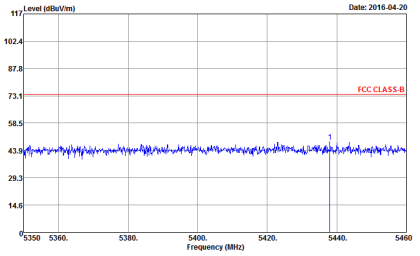
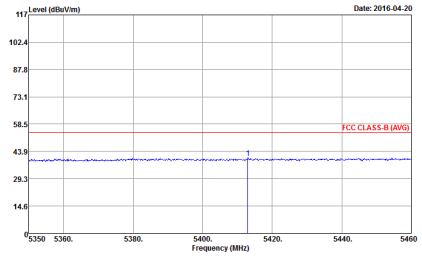
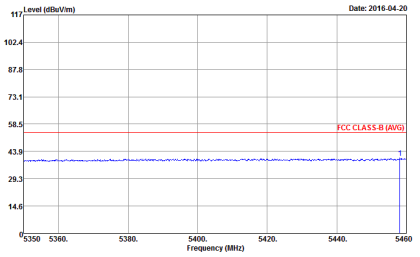
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| ANT | 802.11n HT20 CH44 5220MHz - R | |
| 1+2 | Horizontal | Vertical |
| Peak |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 11 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 11 |
| Avg. |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 11 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 11 |

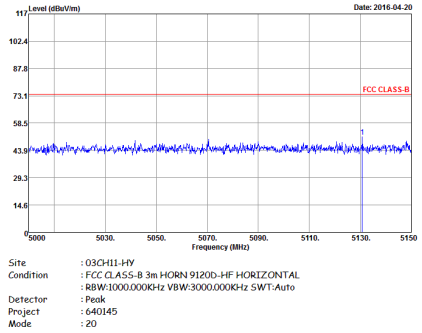
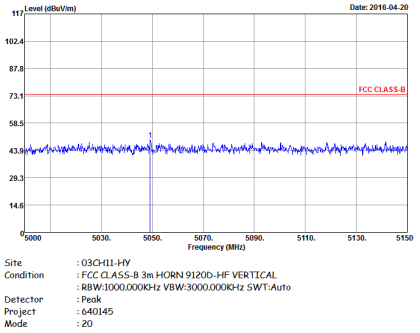
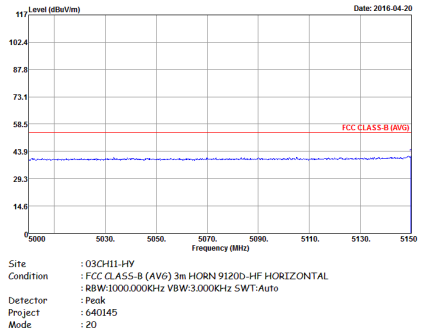
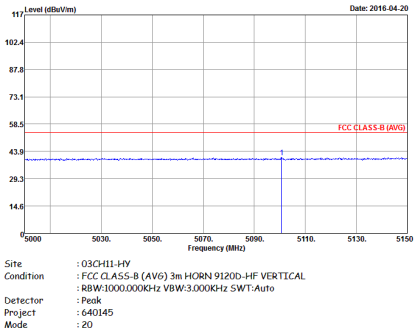
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| ANT | 802.11n HT20 CH48 5240MHz - L | |
| 1+2 | Horizontal | Vertical |
| Peak |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 12 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 12 |
| Avg. |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 12 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 12 |

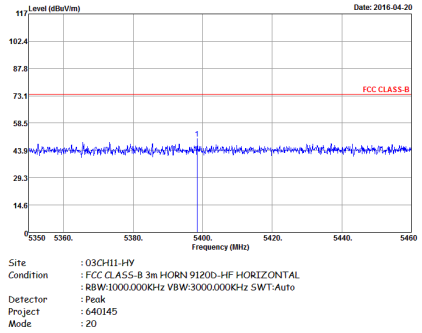
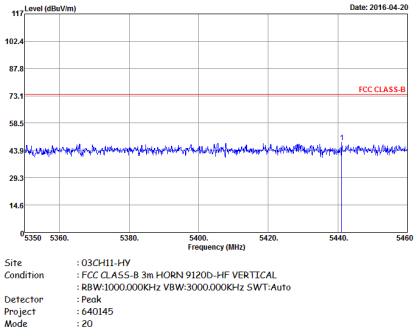
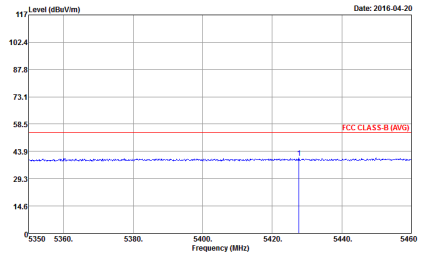
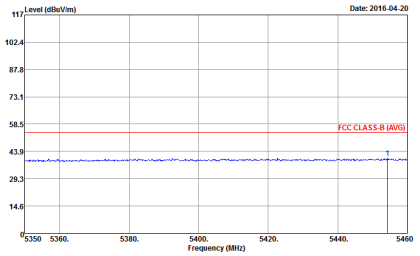
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| ANT | 802.11n HT20 CH48 5240MHz - R | |
| 1+2 | Horizontal | Vertical |
| Peak |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 12 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 12 |
| Avg. |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 12 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 12 |

## Band 1 5150~5250MHz
## WIFI 802.11n HT40 (Band Edge @ 3m)

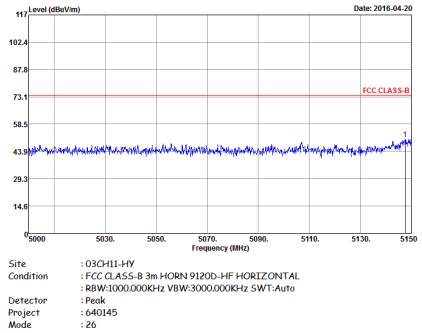
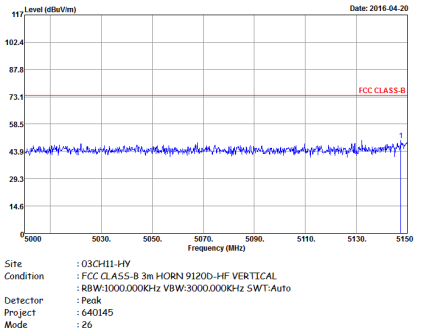
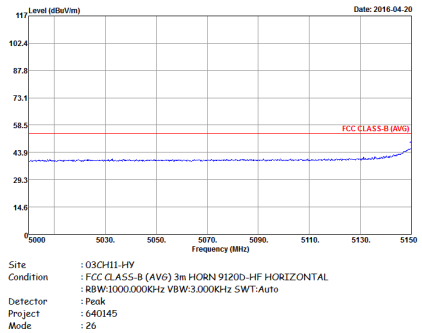
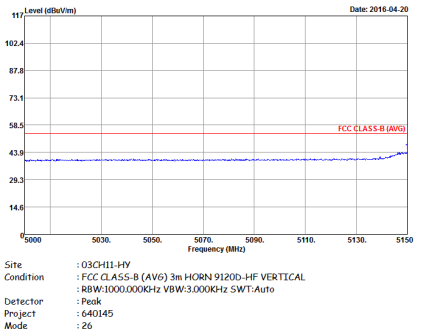
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| ANT | 802.11n HT40 CH38 5190MHz - L | |
| 1+2 | Horizontal | Vertical |
| Peak |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 19<br>Setting : 14 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 19<br>Setting : 14 |
| Avg. |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 19<br>Setting : 14 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 19<br>Setting : 14 |

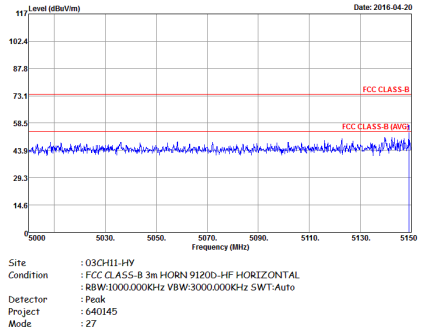
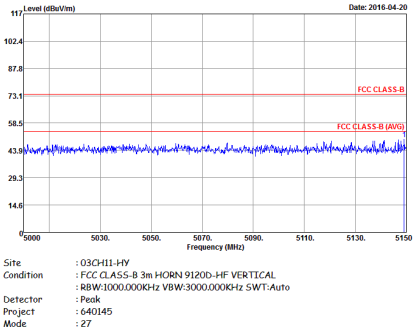
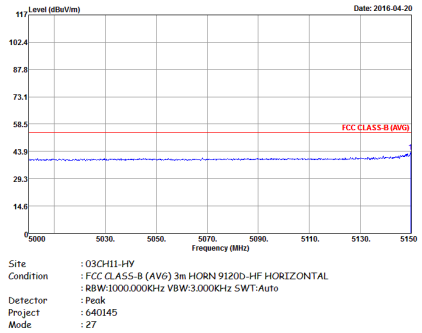
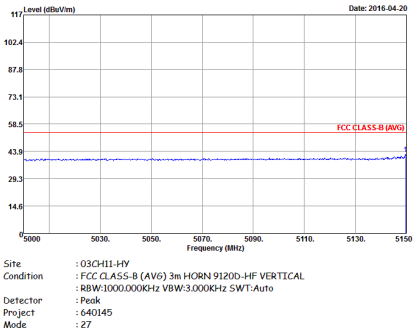
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| ANT | 802.11n HT40 CH38 5190MHz - R | |
| 1+2 | Horizontal | Vertical |
| Peak |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 19<br>Setting : 14 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 19<br>Setting : 14 |
| Avg. |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 19<br>Setting : 14 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 19<br>Setting : 14 |

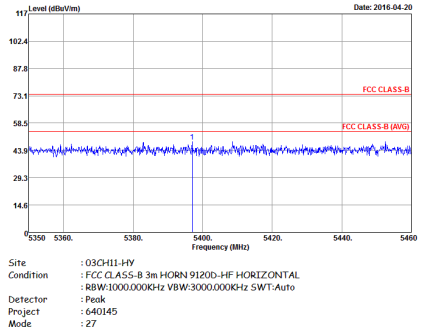
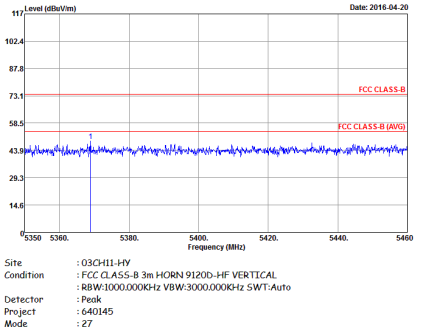
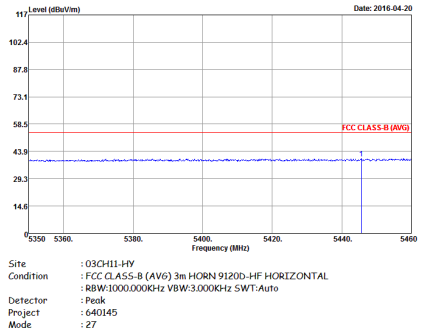
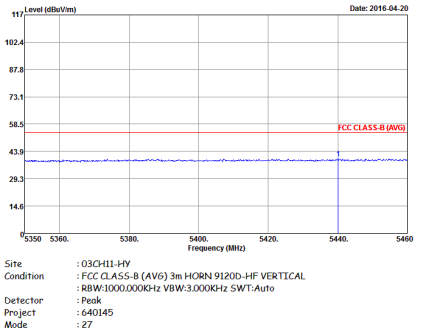
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| ANT | 802.11n HT40 CH46 5230MHz - L | |
| 1+2 | Horizontal | Vertical |
| Peak |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 20 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 20 |
| Avg. |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 20 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 20 |

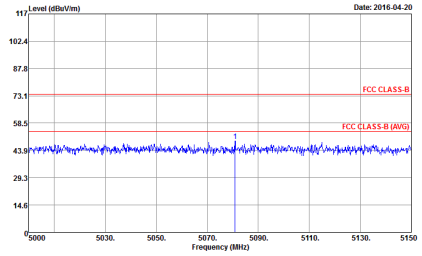
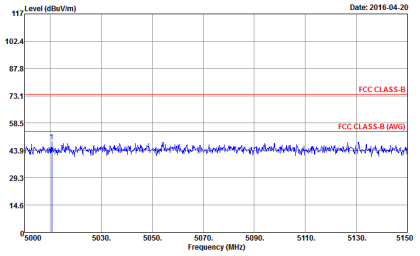
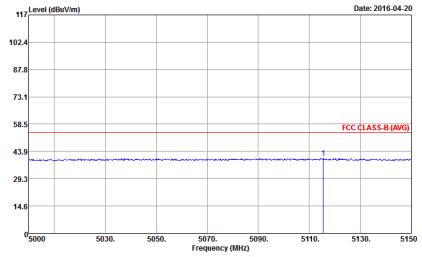
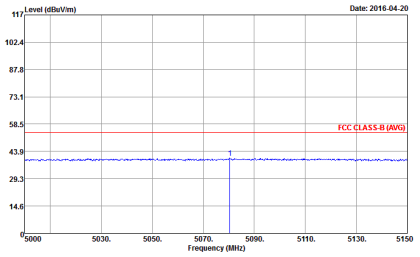
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| ANT | 802.11n HT40 CH46 5230MHz - R | |
| 1+2 | Horizontal | Vertical |
| Peak |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 20 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 20 |
| Avg. |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 20 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 20 |

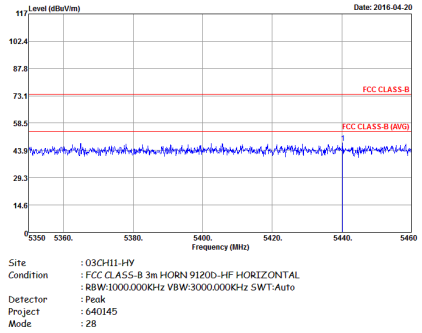
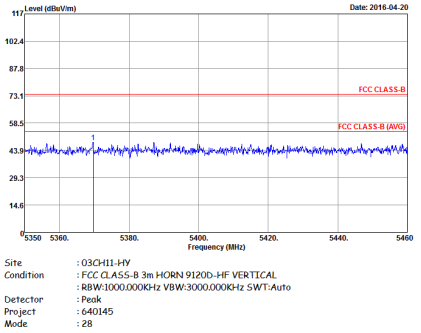
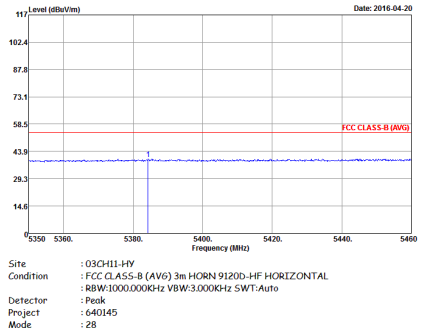
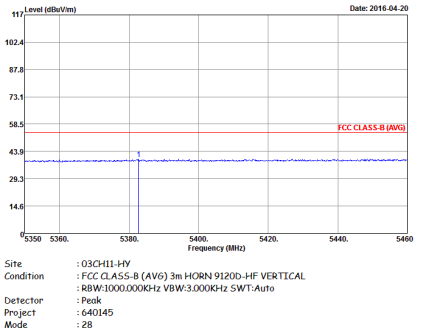
## Band 1 5150~5250MHz
## WIFI 802.11ac VHT20 (Band Edge @ 3m)

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| ANT | 802.11ac VHT20 CH36 5180MHz | |
| 1+2 | Horizontal | Vertical |
| Peak |  |  |
| Avg. |  |  |

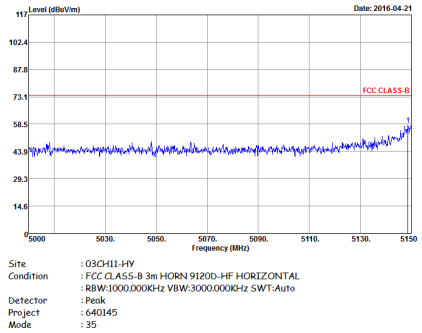
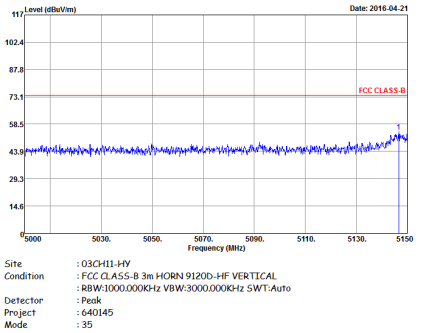
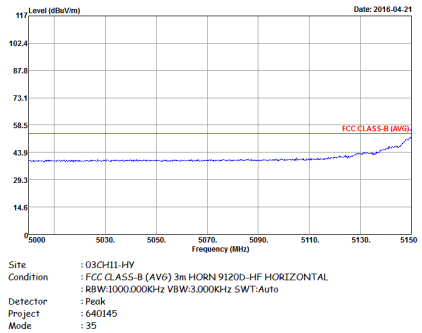
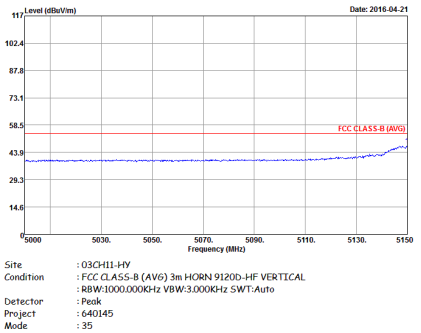
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| ANT | 802.11ac VHT20 CH44 5220MHz - L | |
| 1+2 | Horizontal | Vertical |
| Peak |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 27 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 27 |
| Avg. |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 27 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 27 |

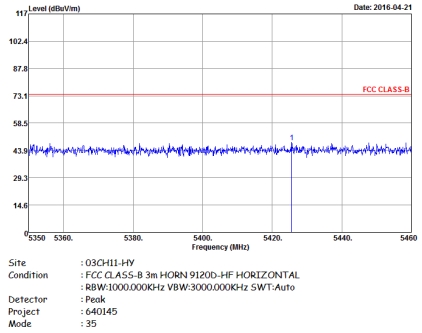
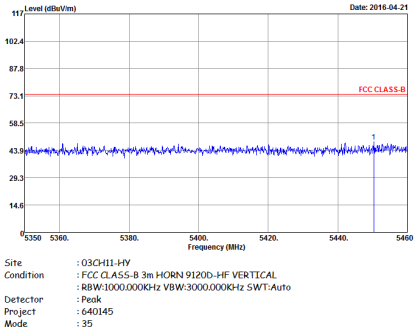
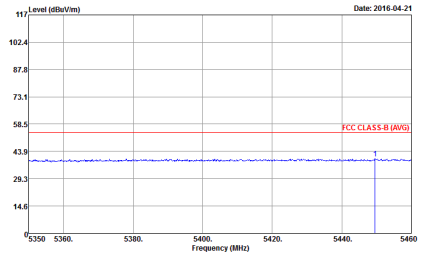
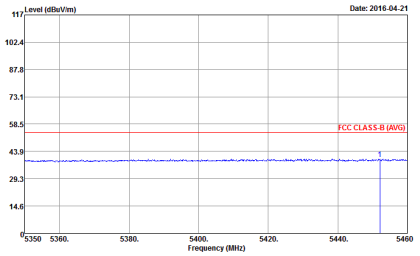
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| ANT | 802.11ac VHT20 CH44 5220MHz - R | |
| 1+2 | Horizontal | Vertical |
| Peak |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 27 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 27 |
| Avg. |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 27 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 27 |

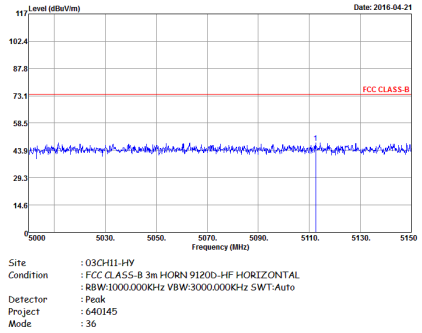
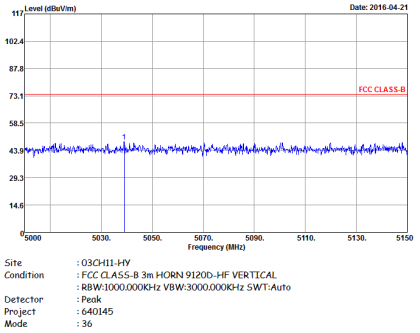
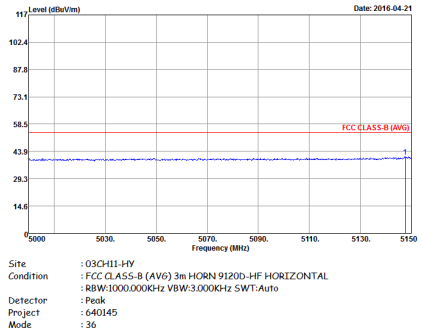
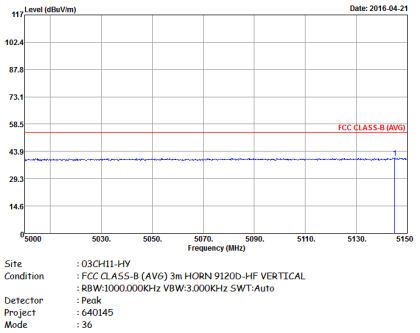
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| ANT | 802.11ac VHT20 CH48 5240MHz - L | |
| 1+2 | Horizontal | Vertical |
| Peak |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 28 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 28 |
| Avg. |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 28 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 28 |

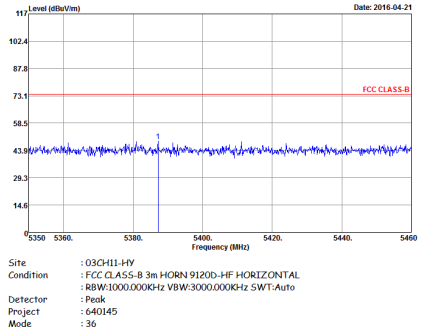
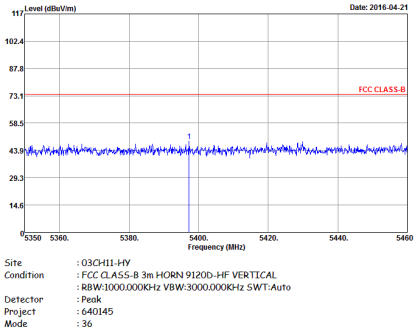
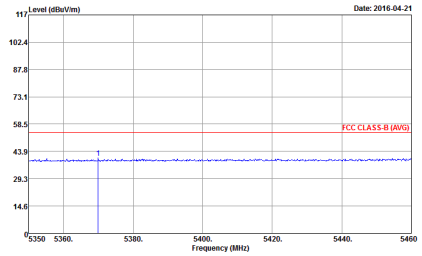
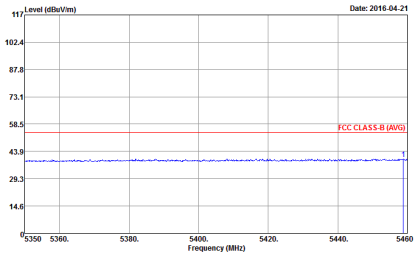
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| ANT | 802.11ac VHT20 CH48 5240MHz - R | |
| 1+2 | Horizontal | Vertical |
| Peak |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 28 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 28 |
| Avg. |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 28 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 28 |

## Band 1 5150~5250MHz
## WIFI 802.11ac VHT40 (Band Edge @ 3m)

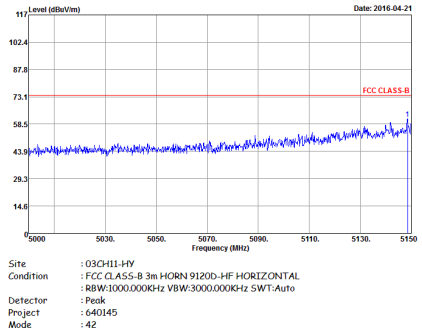
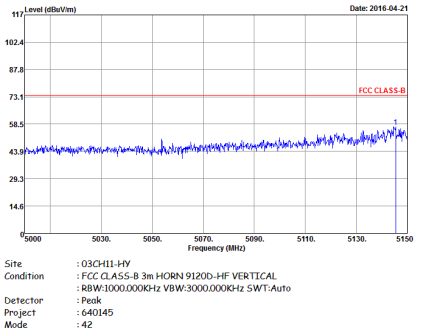
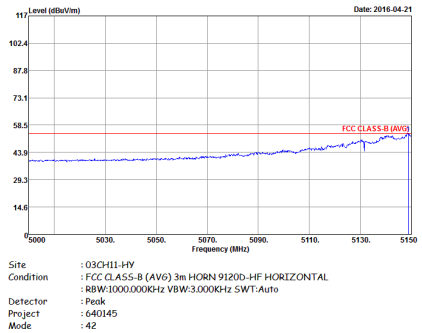
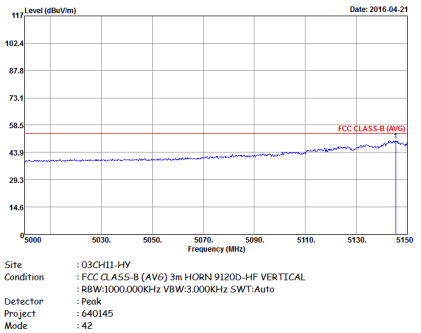
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| ANT | 802.11ac VHT40 CH38 5190MHz - L | |
| 1+2 | Horizontal | Vertical |
| Peak |  |  |
| Avg. |  |  |

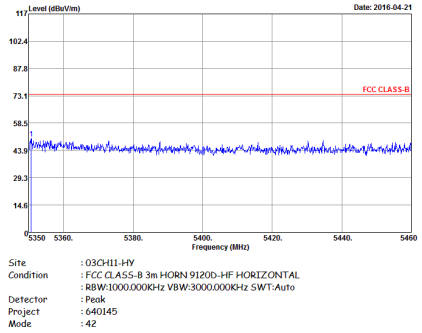
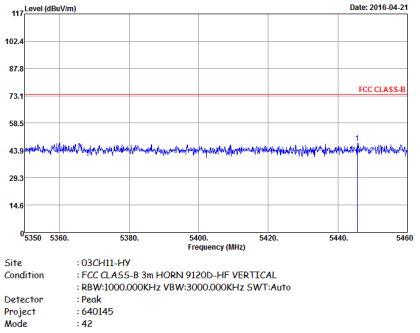
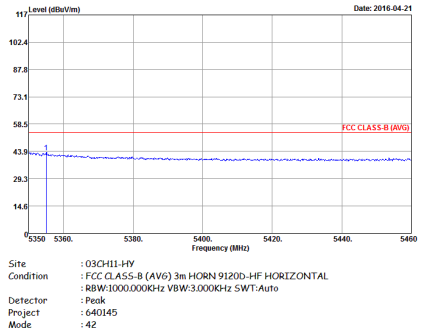
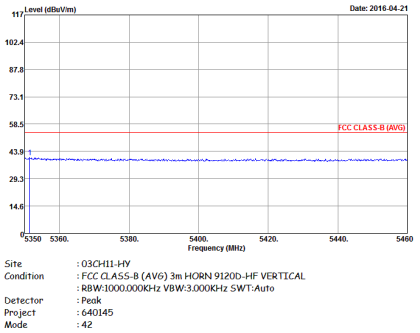
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| ANT | 802.11ac VHT40 CH38 5190MHz - R | |
| 1+2 | Horizontal | Vertical |
| Peak |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 35 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 35 |
| Avg. |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 35 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 35 |

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| ANT | 802.11ac VHT40 CH46 5230MHz - L | |
| 1+2 | Horizontal | Vertical |
| Peak |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 36 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 36 |
| Avg. |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 36 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 36 |

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| ANT | 802.11ac VHT40 CH46 5230MHz - R | |
| 1+2 | Horizontal | Vertical |
| Peak |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 36 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 36 |
| Avg. |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 36 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 36 |

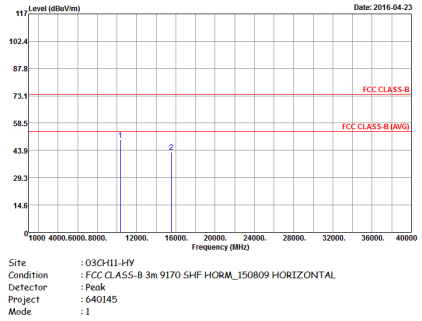
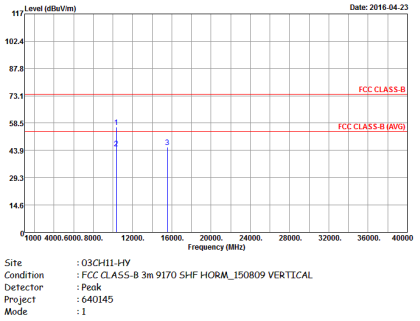
## Band 1 5150~5250MHz
## WIFI 802.11ac VHT80 (Band Edge @ 3m)

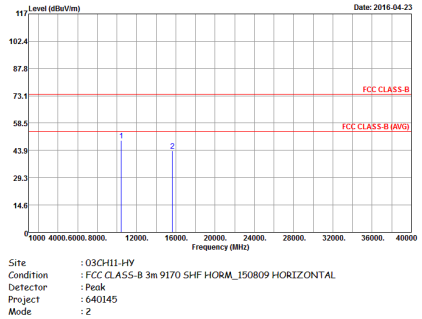
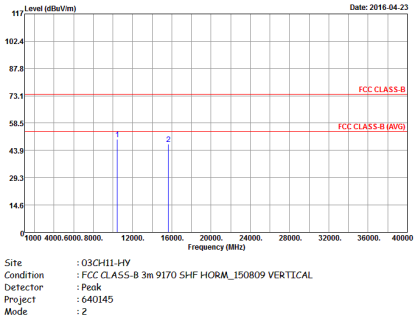
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| ANT | 802.11ac VHT80 CH42 5210MHz - L | |
| 1+2 | Horizontal | Vertical |
| Peak |  |  |
| Avg. |  |  |

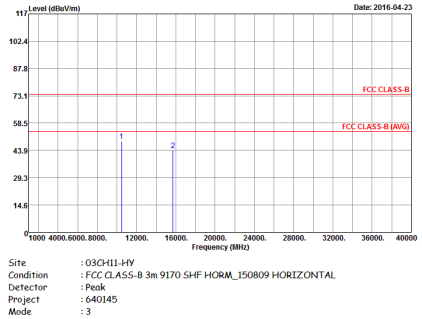
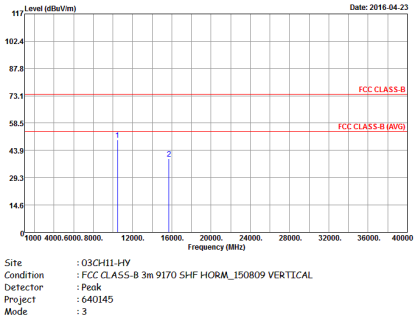
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| ANT | 802.11ac VHT80 CH42 5210MHz - R | |
| 1+2 | Horizontal | Vertical |
| Peak |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 42 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 42 |
| Avg. |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 42 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:3.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 42 |

## Band 1 - 5150~5250MHz

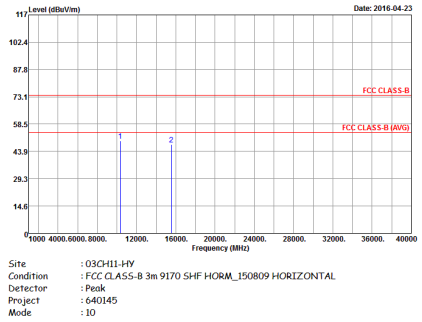
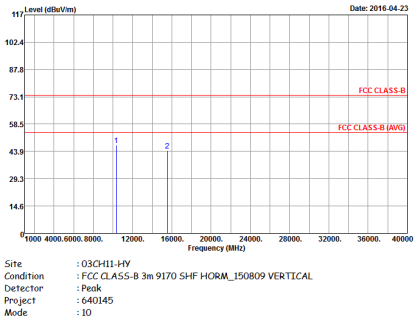
## WIFI 802.11a (Harmonic @ 3m)

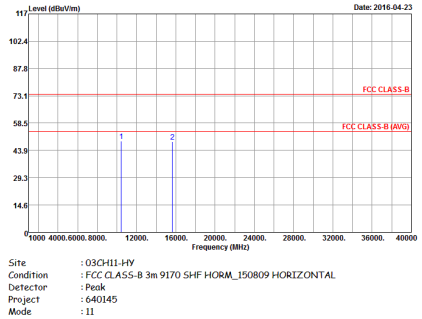
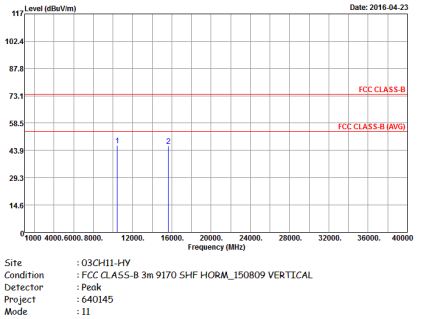
| WIFI | Band 1 5150~5250MHz Harmonic @ 3m | |
|---|---|---|
| ANT | 802.11a CH36 5180MHz | |
| 1+2 | Horizontal | Vertical |
| Peak<br>Avg. |  |  |

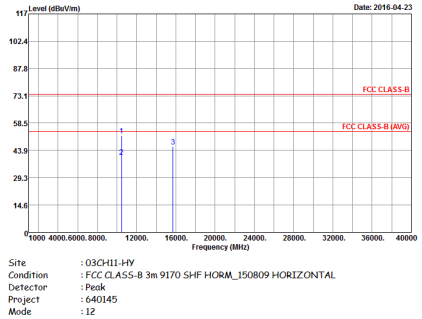
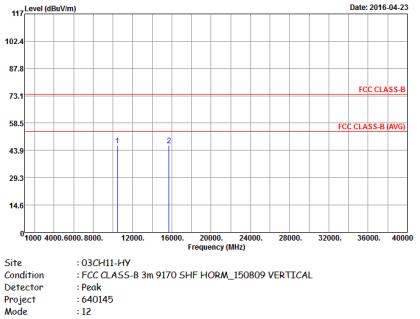
| WIFI | Band 1 5150~5250MHz Harmonic @ 3m | |
|---|---|---|
| ANT | 802.11a CH44 5220MHz | |
| 1+2 | Horizontal | Vertical |
| Peak<br>Avg. |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m 9170 SHF HORM_150809 HORIZONTAL<br>Detector : Peak<br>Project : 640145<br>Mode : 2 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m 9170 SHF HORM_150809 VERTICAL<br>Detector : Peak<br>Project : 640145<br>Mode : 2 |

| WIFI | Band 1 5150~5250MHz Harmonic @ 3m | |
|---|---|---|
| ANT | 802.11a CH48 5240MHz | |
| 1+2 | Horizontal | Vertical |
| Peak<br>Avg. |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m 9170 SHF HORM_150809 HORIZONTAL<br>Detector : Peak<br>Project : 640145<br>Mode : 3 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m 9170 SHF HORM_150809 VERTICAL<br>Detector : Peak<br>Project : 640145<br>Mode : 3 |

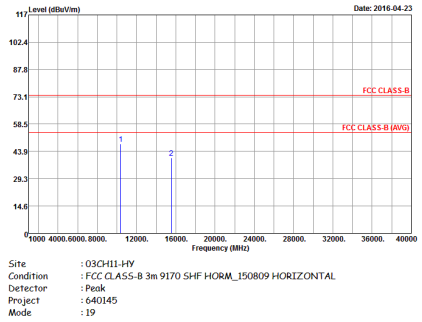
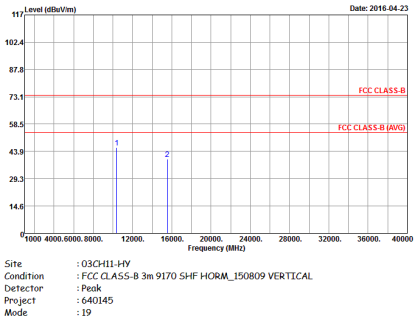
## Band 1 5150~5250MHz
## WIFI 802.11n HT20 (Harmonic @ 3m)

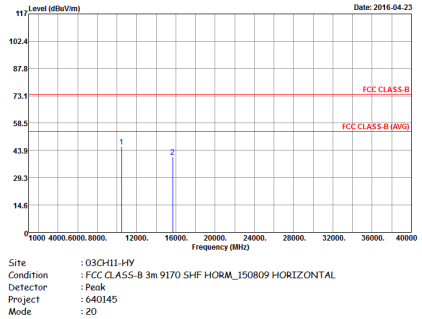
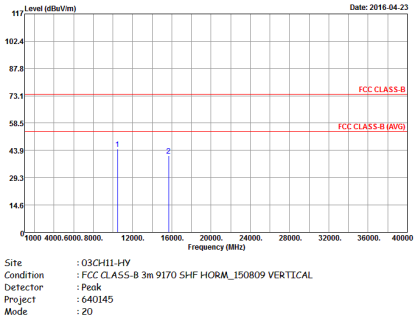
| WIFI | Band 1 5150~5250MHz Harmonic @ 3m | |
|---|---|---|
| ANT | 802.11n HT20 CH36 5180MHz | |
| 1+2 | Horizontal | Vertical |
| Peak<br>Avg. |  |  |

| WIFI | Band 1 5150~5250MHz Harmonic @ 3m | |
|---|---|---|
| ANT | 802.11n HT20 CH44 5220MHz | |
| 1+2 | Horizontal | Vertical |
| Peak<br>Avg. |  |  |

| WIFI | Band 1 5150~5250MHz Harmonic @ 3m | |
|---|---|---|
| ANT | 802.11n HT20 CH48 5240MHz | |
| 1+2 | Horizontal | Vertical |
| Peak<br>Avg. |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m 9170 SHF HORM_150809 HORIZONTAL<br>Detector : Peak<br>Project : 640145<br>Mode : 12 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m 9170 SHF HORM_150809 VERTICAL<br>Detector : Peak<br>Project : 640145<br>Mode : 12 |

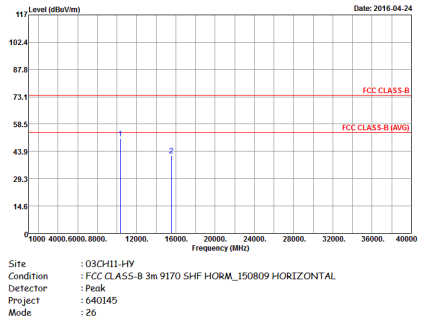
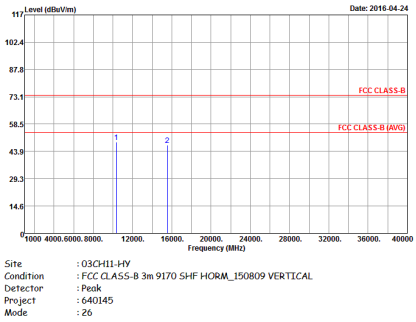
## Band 1 5150~5250MHz
## WIFI 802.11n HT40 (Harmonic @ 3m)

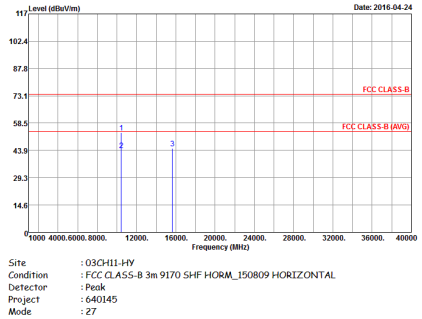
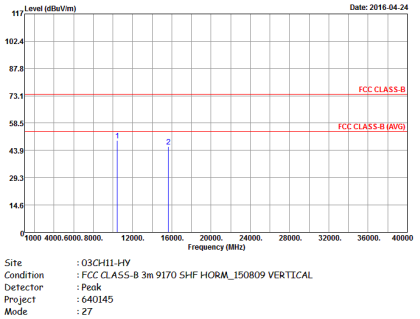
| WIFI | Band 1 5150~5250MHz Harmonic @ 3m | |
|---|---|---|
| ANT | 802.11n HT40 CH38 5190MHz | |
| 1+2 | Horizontal | Vertical |
| Peak<br>Avg. |  |  |

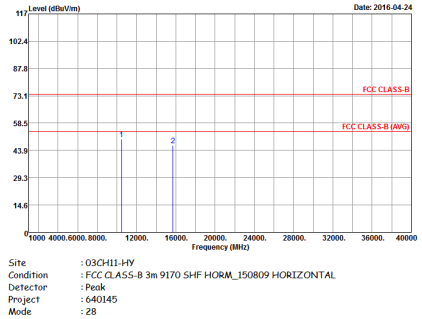
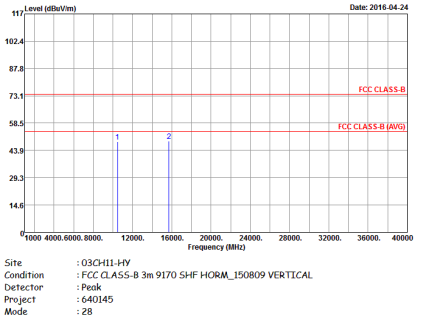
| WIFI | Band 1 5150~5250MHz Harmonic @ 3m | |
|---|---|---|
| ANT | 802.11n HT40 CH46 5230MHz | |
| 1+2 | Horizontal | Vertical |
| Peak<br>Avg. |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m 9170 SHF HORM_150809 HORIZONTAL<br>Detector : Peak<br>Project : 640145<br>Mode : 20 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m 9170 SHF HORM_150809 VERTICAL<br>Detector : Peak<br>Project : 640145<br>Mode : 20 |

## Band 1 5150~5250MHz

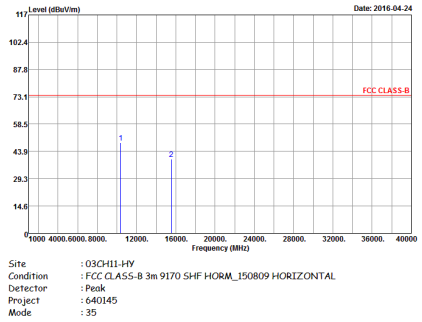
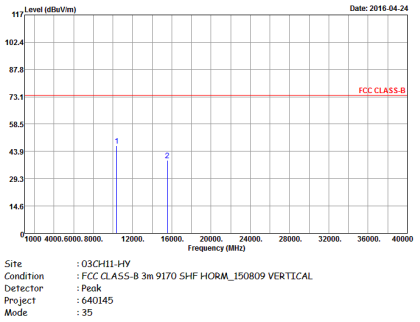
## WIFI 802.11ac VHT20 (Harmonic @ 3m)

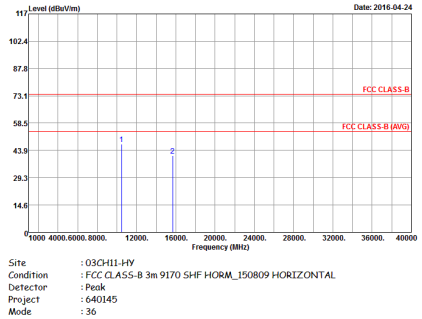
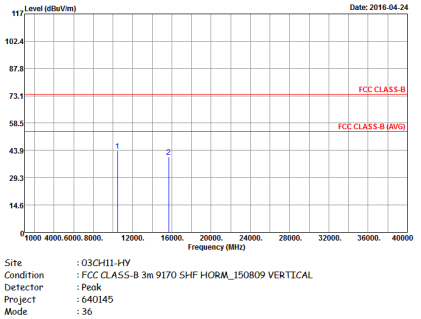
| WIFI | Band 1 5150~5250MHz Harmonic @ 3m | |
|---|---|---|
| ANT | 802.11ac VHT20 CH36 5180MHz | |
| 1+2 | Horizontal | Vertical |
| Peak<br>Avg. |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m 9170 SHF HORM_150809 HORIZONTAL<br>Detector : Peak<br>Project : 640145<br>Mode : 26 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m 9170 SHF HORM_150809 VERTICAL<br>Detector : Peak<br>Project : 640145<br>Mode : 26 |

| WIFI | Band 1 5150~5250MHz Harmonic @ 3m | |
|---|---|---|
| ANT | 802.11ac VHT20 CH44 5220MHz | |
| 1+2 | Horizontal | Vertical |
| Peak<br>Avg. |  |  |

| WIFI | Band 1 5150~5250MHz Harmonic @ 3m | |
|---|---|---|
| ANT | 802.11ac VHT20 CH48 5240MHz | |
| 1+2 | Horizontal | Vertical |
| Peak<br>Avg. |  |  |

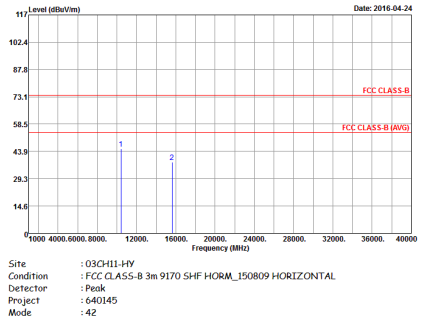
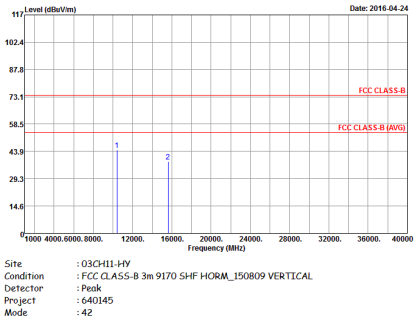
## Band 1 5150~5250MHz
## WIFI 802.11ac VHT40 (Harmonic @ 3m)

| WIFI | Band 1 5150~5250MHz Harmonic @ 3m | |
|---|---|---|
| ANT | 802.11ac VHT40 CH38 5190MHz | |
| 1+2 | Horizontal | Vertical |
| Peak<br>Avg. |  |  |

| WIFI | Band 1 5150~5250MHz Harmonic @ 3m | |
|---|---|---|
| ANT | 802.11ac VHT40 CH46 5230MHz | |
| 1+2 | Horizontal | Vertical |
| Peak<br>Avg. |  |  |

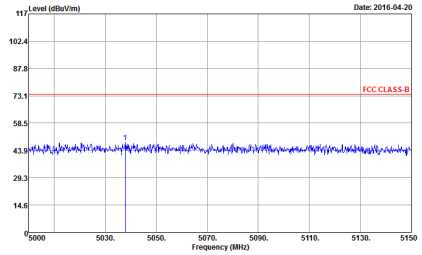
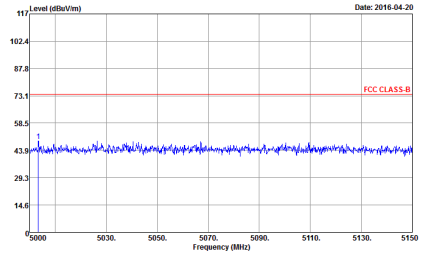
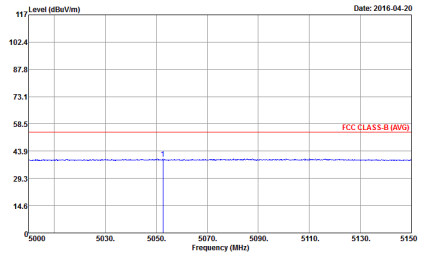
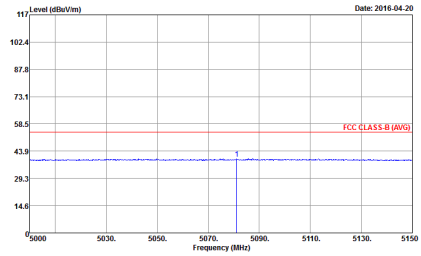
## Band 1 5150~5250MHz

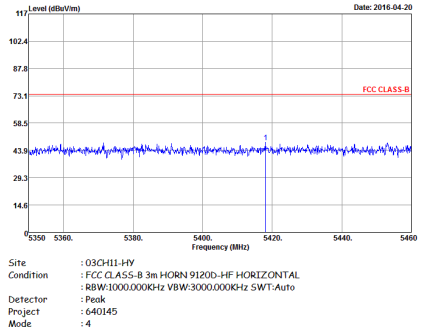
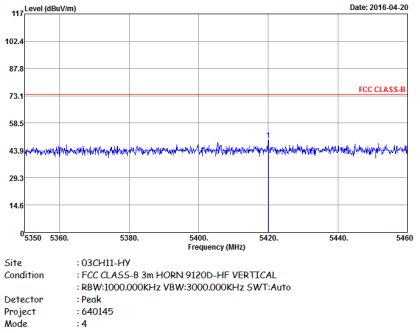
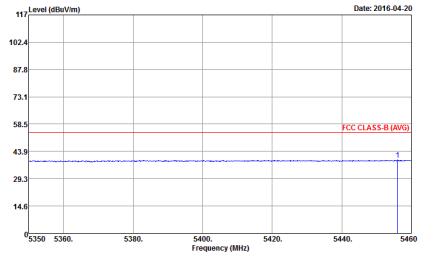
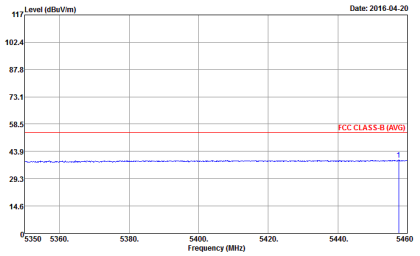
## WIFI 802.11ac VHT80 (Harmonic @ 3m)

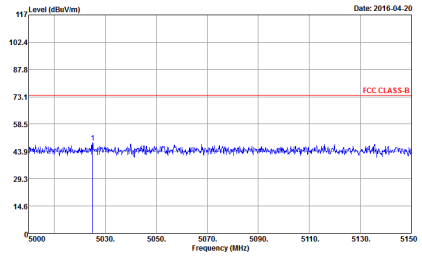
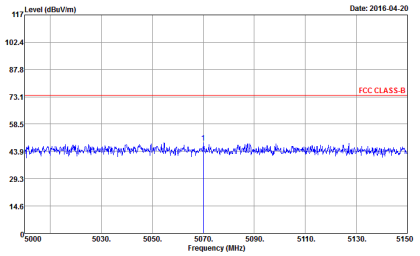
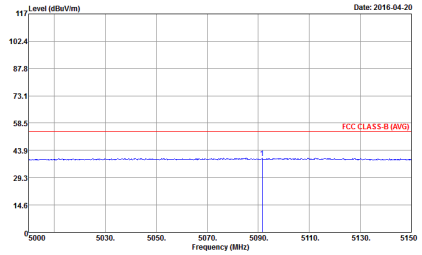
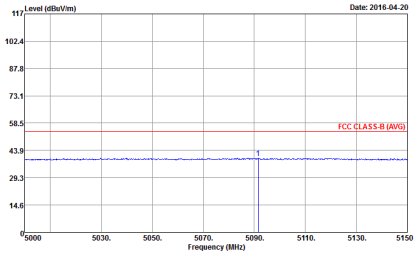
| WIFI | Band 1 5150~5250MHz Harmonic @ 3m | |
|---|---|---|
| ANT | 802.11ac VHT80 CH42 5210MHz | |
| 1+2 | Horizontal | Vertical |
| Peak<br>Avg. |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m 9170 SHF HORM_150809 HORIZONTAL<br>Detector : Peak<br>Project : 640145<br>Mode : 42 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m 9170 SHF HORM_150809 VERTICAL<br>Detector : Peak<br>Project : 640145<br>Mode : 42 |

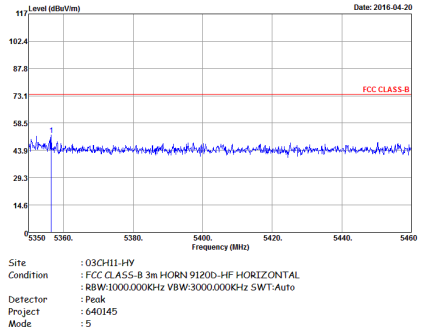
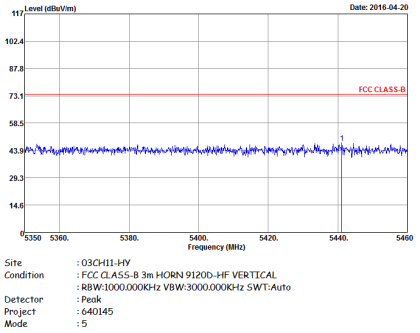
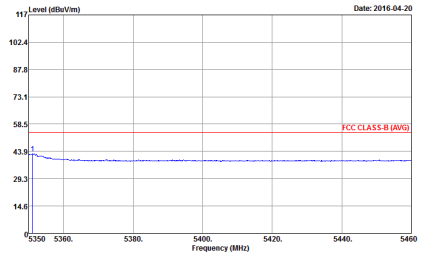
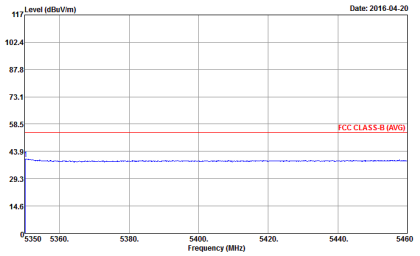
## Band 2 - 5250~5350MHz

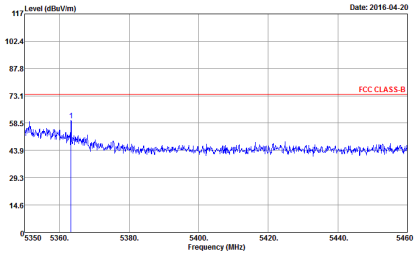
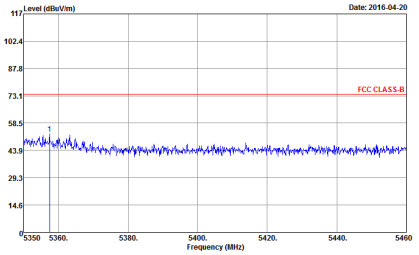
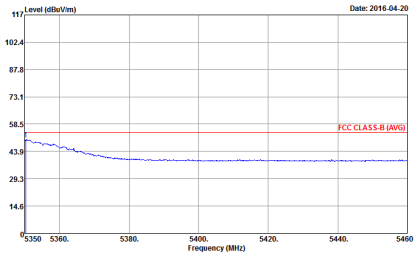
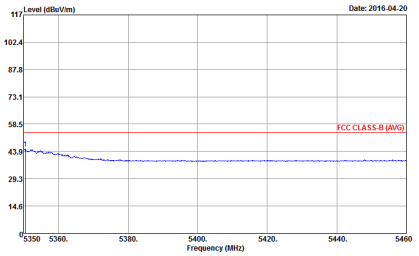
## WIFI 802.11a (Band Edge @ 3m)

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m | |
|---|---|---|
| ANT | 802.11a CH52 5260MHz - L | |
| 1+2 | Horizontal | Vertical |
| Peak |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 4 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 4 |
| Avg. |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 4 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 4 |

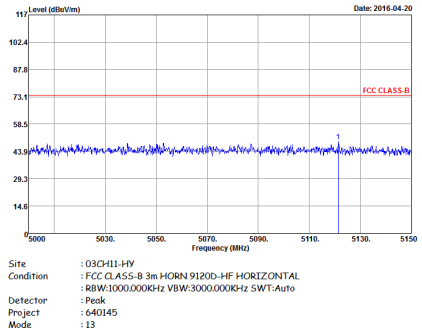
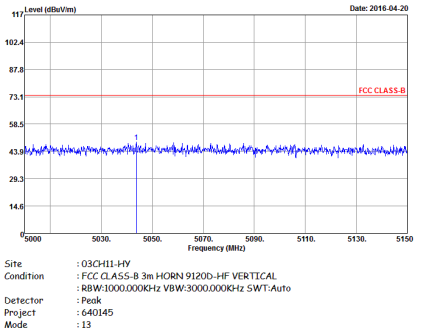
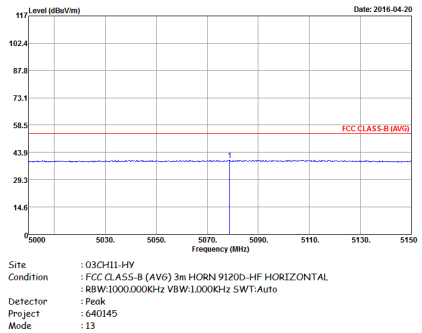
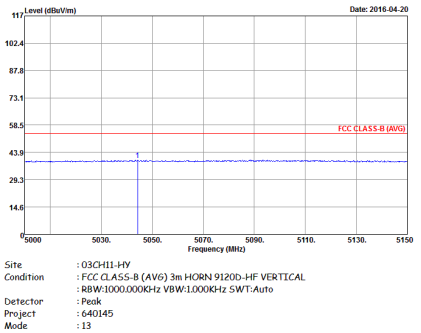
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m | |
|---|---|---|
| ANT | 802.11a CH52 5260MHz - R | |
| 1+2 | Horizontal | Vertical |
| Peak |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 4 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 4 |
| Avg. |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 4 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 4 |

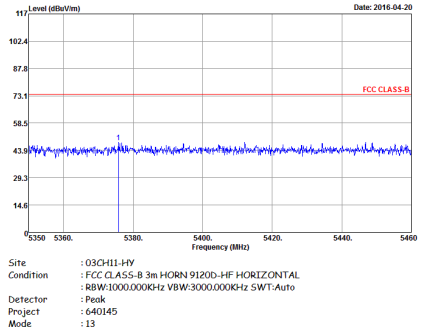
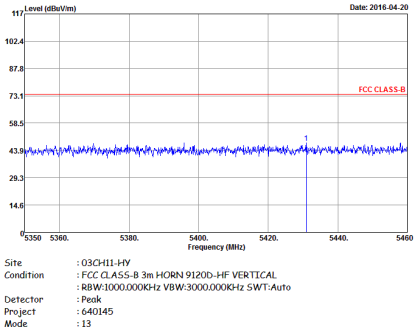
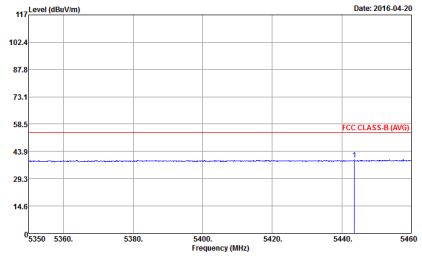
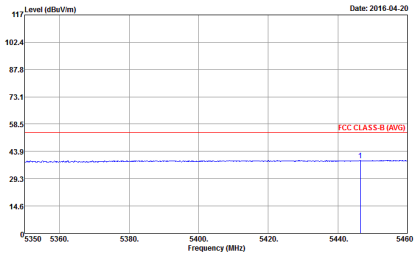
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m | |
|---|---|---|
| ANT | 802.11a CH60 5300MHz - L | |
| 1+2 | Horizontal | Vertical |
| Peak |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 5 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 5 |
| Avg. |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 5 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 5 |

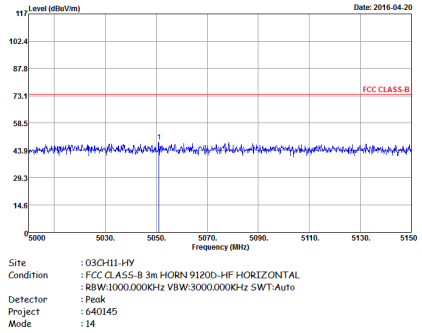
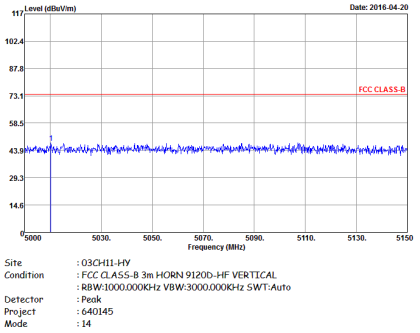
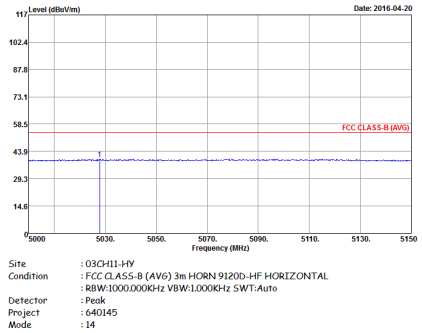
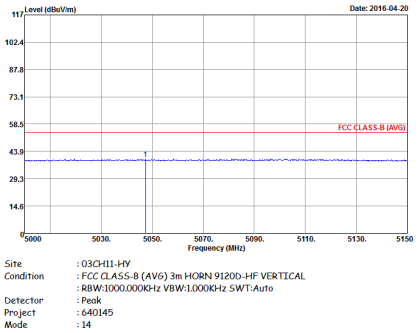
| WIFI | Band 2 5250~5350MHz Band Edge @ 3m | |
|---|---|---|
| ANT | 802.11a CH60 5300MHz - R | |
| 1+2 | Horizontal | Vertical |
| Peak |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 5 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 5 |
| Avg. |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 5 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 5 |

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m | |
|---|---|---|
| ANT | 802.11a CH64 5320MHz | |
| 1+2 | Horizontal | Vertical |
| Peak |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 6 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 6 |
| Avg. |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 6 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 6 |

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

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m | |
|---|---|---|
| ANT | 802.11n HT20 CH52 5260MHz - L | |
| 1+2 | Horizontal | Vertical |
| Peak |  |  |
| Avg. |  |  |

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m | |
|---|---|---|
| ANT | 802.11n HT20 CH52 5260MHz - R | |
| 1+2 | Horizontal | Vertical |
| Peak |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 13 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 13 |
| Avg. |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 13 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 13 |

| WIFI | Band 2 5250~5350MHz Band Edge @ 3m | |
|---|---|---|
| ANT | 802.11n HT20 CH60 5300MHz - L | |
| 1+2 | Horizontal | Vertical |
| Peak |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 14 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 14 |
| Avg. |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF HORIZONTAL<br>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 14 |  <br>Site : 03CH11-HY<br>Condition : FCC CLASS-B (AVG) 3m HORN 9120D-HF VERTICAL<br>: RBW:1000.000KHz VBW:1.000KHz SWT:Auto<br>Detector : Peak<br>Project : 640145<br>Mode : 14 |