# FCC RADIO TEST REPORT

| | | |
|---|---|---|
| **FCC ID** | **:** | **S9GR760** |
| **Equipment** | **:** | **R760 Access Point** |
| **Brand Name** | **:** | **RUCKUS** |
| **Model Name** | **:** | **R760** |
| **Applicant** | **:** | **Ruckus Wireless Inc.**<br>**350 W. Java Dr., Sunnyvale CA 94089 USA** |
| **Manufacturer** | **:** | **Ruckus Wireless Inc.**<br>**350 W. Java Dr., Sunnyvale CA 94089 USA** |
| **Standard** | **:** | **FCC Part 15 Subpart E §15.407** |

**The product was received on Jul. 28, 2021 and testing was performed from Aug. 15, 2021 to Dec. 17, 2021. We, Sporton International (USA) 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 from Sporton International (USA) Inc., the test report shall not be reproduced except in full.**

Neil Kao

**Approved by: Neil Kao**

***Sporton International (USA) Inc.***
*1175 Montague Expressway, Milpitas, CA 95035*

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# History of this test report

| Report No. | Version | Description | Issue Date |
|---|---|---|---|
| FR210728001D | 01 | Initial issue of report | Feb. 21, 2021 |
| FR210728001D | 02 | Revise remark description in test mode | Apr. 19, 2022 |
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# Summary of Test Result

| Report Clause | Ref Std. Clause | Test Items | Result (PASS/FAIL) | Remark |
|---|---|---|---|---|
| 3.1 | 15.403(i) | 26dB Bandwidth | Pass | - |
| 3.1 | 2.1049 | 99% Occupied Bandwidth | Reporting only | - |
| 3.2 | 15.407(a) | Maximum Conducted Output Power | Pass | - |
| 3.3 | 15.407(a) | Power Spectral Density | Pass | - |
| 3.4 | 15.407(b) | Unwanted Emissions | Pass | 0.16 dB under the limit at 5469.360 and 5351.040MHz |
| 3.5 | 15.207 | AC Conducted Emission | Pass | 9.27 dB under the limit at 0.369 MHz |
| 3.6 | 15.203<br>15.407(a) | Antenna Requirement | Pass | - |

| **Declaration of Conformity:** |
|---|
| The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers. |
| **Comments and Explanations:** |
| The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity. |

# 1 General Description

## 1.1 Product Feature of Equipment Under Test

The EUT is an indoor AP with radios including Bluetooth - LE, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, Wi-Fi 6GHz 802.11a/n/ac/ax, 802.15.4 (Zigbee), equipped with integrated antennas configured below:

| Antenna Configuration | |
|---|---|
| **Antenna Type** | **WLAN 2.4GHz**<br><Ant. A>: Omni Antenna<br><Ant. B>: Omni Antenna<br><Ant. C>: Omni Antenna<br><Ant. D>: Omni Antenna<br>**WLAN 5GHz**<br>**Radio 1 and Radio 2:**<br><Ant. A>: Omni Antenna<br><Ant. B>: Omni Antenna<br><Ant. C>: Omni Antenna<br><Ant. D>: Omni Antenna<br>**Radio 3:**<br><Ant. E>: Omni Antenna<br><Ant. F>: Omni Antenna<br><Ant. G>: Omni Antenna<br><Ant. H>: Omni Antenna<br>**WLAN 6GHz**<br><Ant. E>: Omni Antenna<br><Ant. F>: Omni Antenna<br><Ant. G>: Omni Antenna<br><Ant. H>: Omni Antenna<br>**Bluetooth-LE:** <Ant. 1>Omni Antenna<br>**Zigbee:** <Ant. 1>Omni Antenna |

| Antenna information | | | |
|---|---|---|---|
| **5150 MHz ~ 5725 MHz** | Peak Gain (dBi) | Vertical | **<Ant. A>:** 2.9<br>**<Ant. D>:** 2.9 |
| | | Horizontal | **<Ant. B>:** 2.9<br>**<Ant. C>:** 2.9 |
| **5470 MHz ~ 5725 MHz** | Peak Gain (dBi) | Vertical | **<Ant. E>:** 2.9<br>**<Ant. H>:** 2.9 |
| | | Horizontal | **<Ant. F>:** 2.9<br>**<Ant. G>:** 2.9 |

**Remark:**

1. The above EUT's information is declared by the manufacturer.
2. The device is a special case of MIMO system with four outputs driving a cross-polarized pair of linearly polarized antennas (noted as “vertical” and “horizontal”).
   The antenna printed on the secondary board which is vertically/horizontally mounted on the main board.
3. The device has three radio circuits operational in WLAN 5GHz bands, the configuration of each circuit is listed in the following table:

| | |
|---|---|
| **Radio 1** | UNII-1, UNII-2a |
| **Radio 2** | UNII-1, UNII-2a, UNII-2c, UNII-3 |
| **Radio 3** | UNII-2c, UNII-3 |

## 1.2 Modification of EUT

No modifications made to the EUT during the testing.

## 1.3 Testing Location

| | |
|---|---|
| **Test Site** | Sporton International (USA) Inc. |
| **Test Site Location** | 1175 Montague Expressway, Milpitas, CA 95035<br>TEL : 408 9043300 |
| **Test Site No.** | **Sporton Site No.** |
| | TH01-CA, CO01-CA, 03CH02-CA |

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

## 1.4 Applicable Standards

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

- FCC Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- FCC KDB 414788 D01 Radiated Test Site v01r01.
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2013

**Remark:**

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

# 2 Test Configuration of Equipment Under Test

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and find X Plane for Radio 1 and Radio 2 ; Y Plane for Radio 3 as worst plane.

b. AC power line Conducted Emission was tested under maximum output power.

## 2.1 Carrier Frequency and Channel

| Frequency Band | Channel | Freq. (MHz) | Channel | Freq. (MHz) |
|---|---|---|---|---|
| 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 | 112 | 5560 |
| | 102* | 5510 | 116 | 5580 |
| | 104 | 5520 | 132 | 5660 |
| | 106# | 5530 | 134* | 5670 |
| | 108 | 5540 | 136 | 5680 |
| | 110* | 5550 | 140 | 5700 |

| Frequency Band | Channel | Freq. (MHz) |
|---|---|---|
| 5150-5350 MHz | 50@ | 5250 |
| 5470-5725 MHz | 114@ | 5570 |

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

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

**Note:**

1. The above Frequency and Channel with "*" are 802.11n HT40 and 802.11ac VHT40 and 802.11ax HE40.
2. The above Frequency and Channel with "#" are 802.11ac VHT80 and 802.11ax HE80.
3. The above Frequency and Channel with "@" are 802.11ac VHT80+80, VHT160, 802.11ax HE80+80 and HE160.

## 2.2 Test Mode

**The final test modes consider the modulation and the worst data rates as shown in the table below.**

**MIMO Mode**

| Modulation | Data Rate |
|---|---|
| 802.11a | 6 Mbps |
| 802.11n HT20 (Covered by HE20) | MCS0 |
| 802.11n HT40 (Covered by HE40) | MCS0 |
| 802.11ac VHT20 (Covered by HE20) | MCS0 |
| 802.11ac VHT40 (Covered by HE40) | MCS0 |
| 802.11ac VHT80 (Covered by HE80) | MCS0 |
| 802.11ac VHT80+80 (Covered by HE80+80) | MCS0 |
| 802.11ax HE20 | MCS0 |
| 802.11ax HE40 | MCS0 |
| 802.11ax HE80 | MCS0 |

**TXBF Mode**

| Modulation | Data Rate |
|---|---|
| 802.11a | 6 Mbps |
| 802.11n HT20 (Covered by HE20) | MCS0 |
| 802.11n HT40 (Covered by HE40) | MCS0 |
| 802.11ac VHT20 (Covered by HE20) | MCS0 |
| 802.11ac VHT40 (Covered by HE40) | MCS0 |
| 802.11ac VHT80 (Covered by HE80) | MCS0 |
| 802.11ac VHT80+80 (Covered by HE80+80) | MCS0 |
| 802.11ax HE20 | MCS0 |
| 802.11ax HE40 | MCS0 |
| 802.11ax HE80 | MCS0 |

**Note:** The 802.11ax covers the 802.11n and 11ac due to same modulation family scheme. For 802.11ax, only full resource unit assignment mode is tested since EUT doesn't support partial resource unit assignment mode.

| Test Cases | |
|---|---|
| **AC Conducted Emission** | Mode 1 : WLAN (2.4GHz) Link + Bluetooth - LE Idle + Zigbee Tx + Charging from Adapter + LAN 1 Link+ WLAN (5GHz) (Iron 5G -AK10155) Link + WLAN (6GHz) Link + USB Load + LAN2 Link<br>Mode 2 : WLAN (2.4GHz) Link + Bluetooth - LE Idle + Zigbee Tx + Charging from Adapter + LAN 1 Link + WLAN (5GHz) (PINE-HMD0139L) Link + WLAN (5GHz) (Iron 5G -QPQ190) Link + USB Load + LAN 2 Link<br>Mode 3 : WLAN (2.4GHz) Link + Bluetooth – LE Tx + BLE Tx + Charging from Adapter + LAN 1 Link + WLAN (5GHz) (Iron 5G -AK10155) Link + WLAN (6GHz) Link + USB Load + LAN 2 Link |
| **Remark:** The worst case of Conducted Emission is mode 1; only the test data of it was reported. | |

| 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 |
|---|---|---|---|---|
| | | 802.11ax HE20 | 802.11ax HE20 | 802.11ax HE20 |
| 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 |
|---|---|---|---|---|
| | | 802.11ax HE40 | 802.11ax HE40 | 802.11ax HE40 |
| 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 |
|---|---|---|---|---|
| | | 802.11ax HE80 | 802.11ax HE80 | 802.11ax HE80 |
| L | Low | - | - | 106 |
| M | Middle | 42 | 58 | - |
| H | High | - | - | 122 |
| Straddle | | - | - | 138 |

| BW160 | 5150-5350 MHz | 5470-5850MHz |
|---|---|---|
| | 802.11ax HE80+80 | 802.11ax HE80+80 |
| Ch. # | (CH42+58) | (CH106+CH122) |

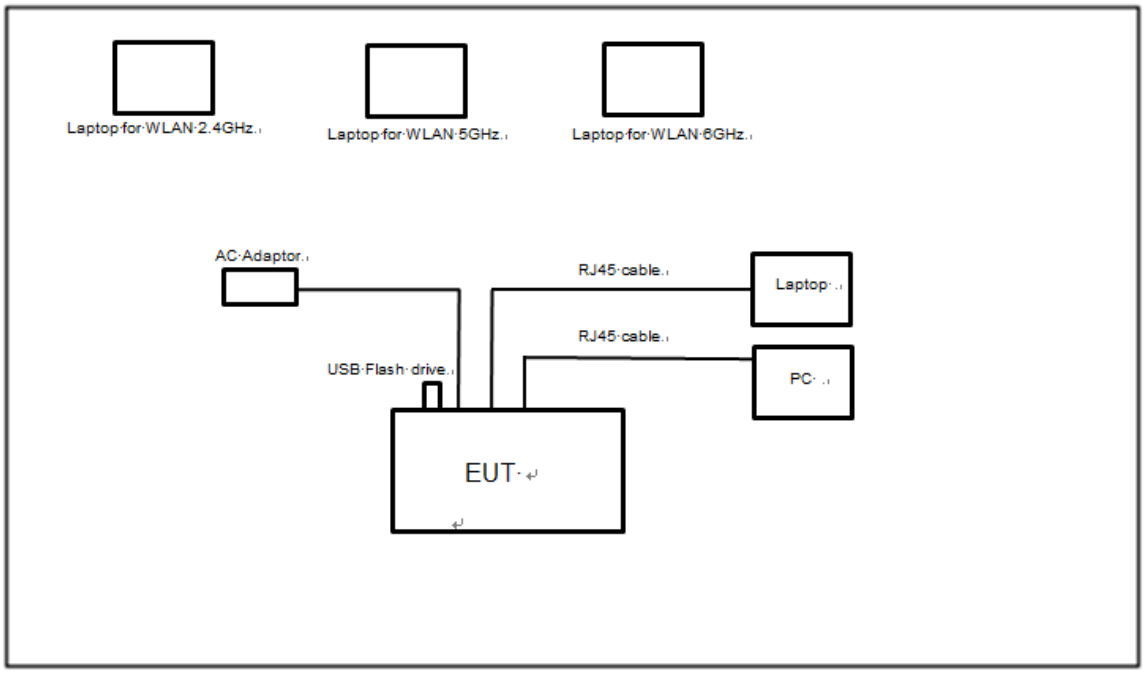
| BW160 | 5150-5350 MHz | 5470-5725MHz |
|---|---|---|
| | 802.11ax HE160 | 802.11ax HE160 |
| Ch. # | - | 114 |

**Remark:**

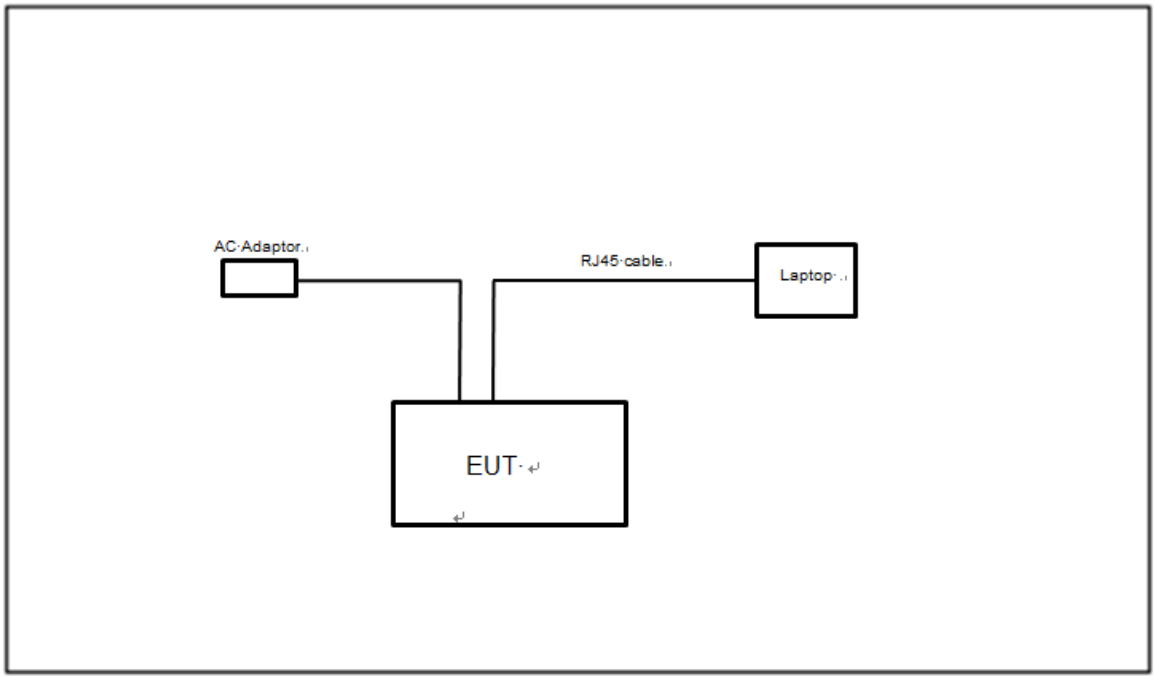
1. For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.
2. RF power on each chain in MIMO mode is greater than SISO mode. The SISO Mode is covered by MIMO Mode.
3. After preliminary scan designated by the manufacturer, CDD mode is determined to be the worst case compared to Beamforming mode, hence, all the radiated test is performed in CDD mode.
4. The setup method between CDD and Beamforming mode is identical except that one of the polarizations is disabled while Beamforming mode is activated so both modes share the same conducted power table. The only difference is how directional gain is calculated between two modes.
5. Partial RUs are not supported at the current product stage, the test report and test results do not cover any Partial RU test assessments.
6. 802.11ax HE80+80 and 802.11ac VHT80+80 are only supported by Radio 2 and Radio 1, whereas 802.11ax HE160 and 802.11ac VHT160 is only supported by Radio 3.

## 2.3 Connection Diagram of Test System

**<AC Conducted Emission Mode>**




**<Radiated Emission Mode>**



## 2.4 Support Unit used in test configuration and system

| Item | Equipment | Brand Name | Model Name | FCC ID | Data Cable | Power Cord |
|---|---|---|---|---|---|---|
| 1. | Notebook | ACER | Altos PS548-G1 | FCC DoC | N/A | AC I/P: Unshielded, 1.2m DC O/P: Shielded, 1.8m |
| 2. | Notebook | LENOVO | 80RU | FCC DoC | N/A | AC I/P: Unshielded, 1.2m DC O/P: Shielded, 1.8m |
| 3. | Notebook | MSI | MS-17F3 | FCC DoC | N/A | AC I/P: Unshielded, 1.2m DC O/P: Shielded, 1.8m |
| 4. | Notebook | ACER | Altos PS548-G1 | FCC DoC | N/A | AC I/P: Unshielded, 1.2m DC O/P: Shielded, 1.8m |
| 5. | PC | Fractal | FD-C-DEF7A-01 (NETINTX550TR Intel X550T2BLK) | FCC DoC | N/A | AC I/P: Unshielded, 1.2m DC O/P: Shielded, 1.8m |
| 6. | USB Flash drive | SanDisk | N/A | N/A | N/A | N/A |
| 7. | AC Adaptor | Ruckus | 740-64277-001 | N/A | N/A | AC I/P: Unshielded, 1.2m |

## 2.5 EUT Operation Test Setup

The RF test items, utility “PuTTY VRelease 0.75” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

## 2.6 Measurement Results Explanation Example

**For all conducted test items:**

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

Example :
The spectrum analyzer offset is derived from RF cable loss and attenuator factor.
*Offset = RF cable loss + attenuator factor.*
Following shows an offset computation example with cable loss 4.2 dB and 10 dB 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, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

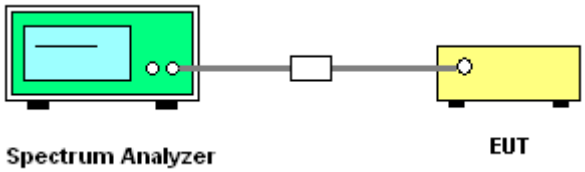
### 3.1.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

### 3.1.3 Test Procedures

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

### 3.1.4 Test Setup



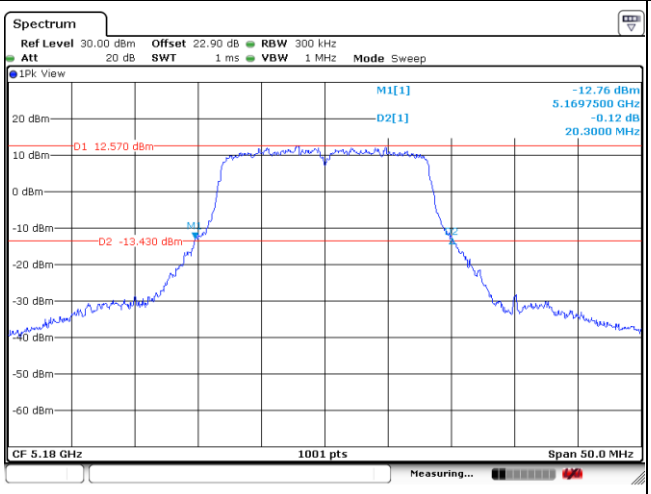
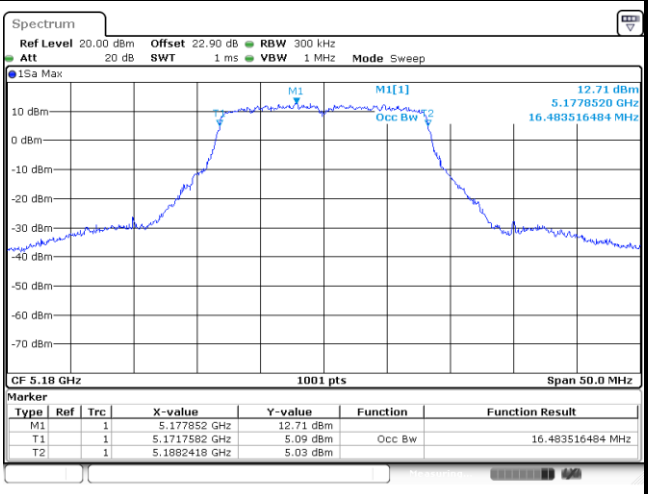

### 3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

**<Radio 1>**

**<CDD Mode>**

**<802.11a CH36 Ant. A>**

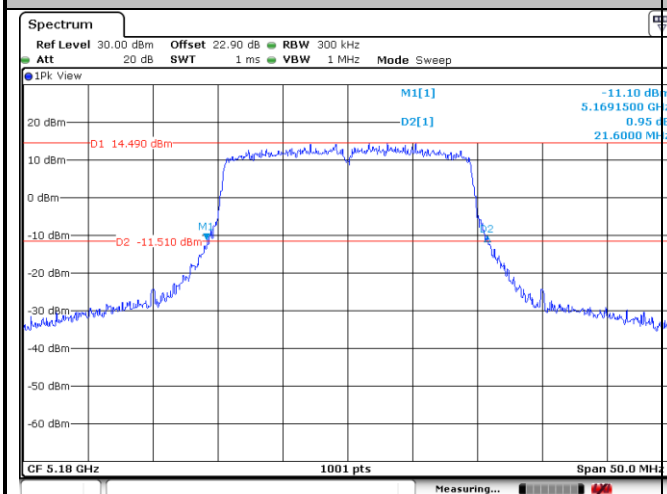
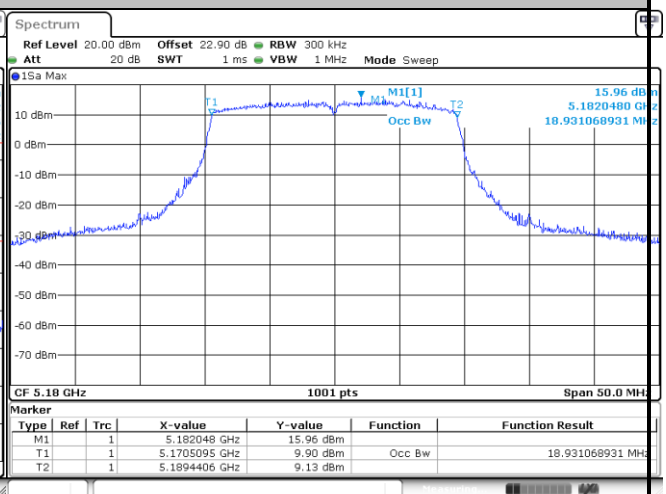
| 26dB Bandwidth | 99% Occupied Bandwidth |
|---|---|
|  |  |





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

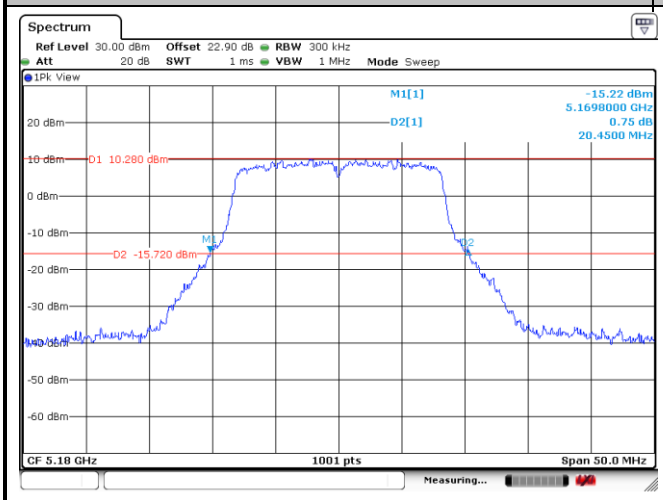
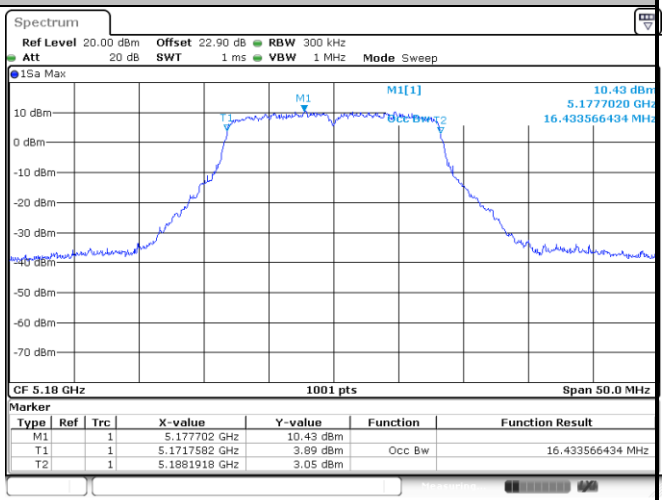
**<802.11ax HE20 CH36 Ant. A>**

| 26dB Bandwidth | 99% Occupied Bandwidth |
|---|---|
|  |  |

**< Radio 2>**

**<CDD Mode>**

**<802.11a CH36 Ant. A>**

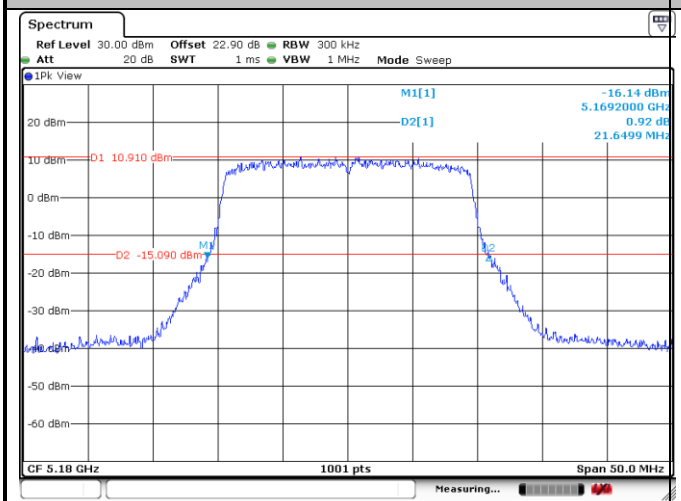
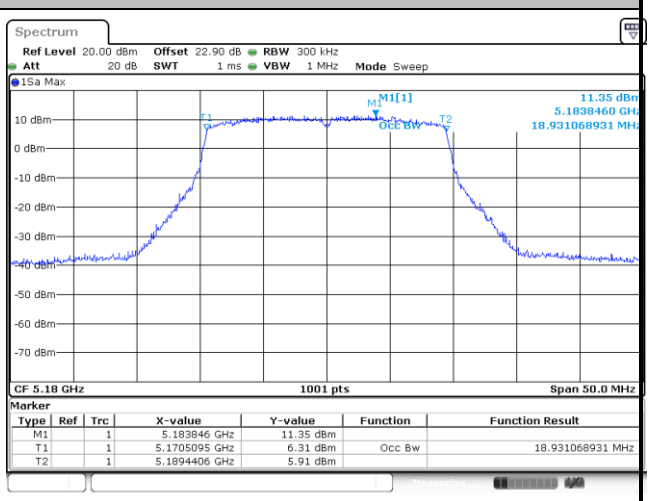
| 26dB Bandwidth | 99% Occupied Bandwidth |
|---|---|
|  |  |





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

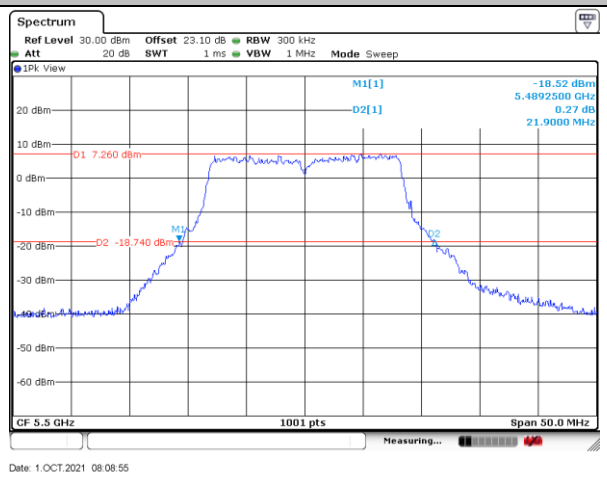
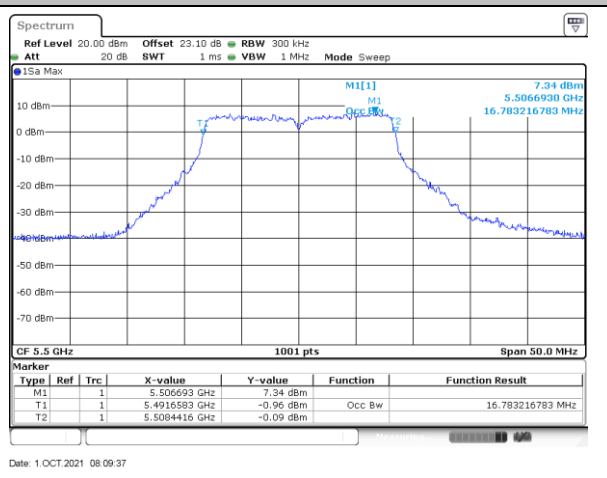
**<802.11ax HE20 CH36 Ant. A>**

| 26dB Bandwidth | 99% Occupied Bandwidth |
|---|---|
|  |  |

**<Radio 3>**

**<CDD Mode>**

**<802.11a CH100 Ant. E>**

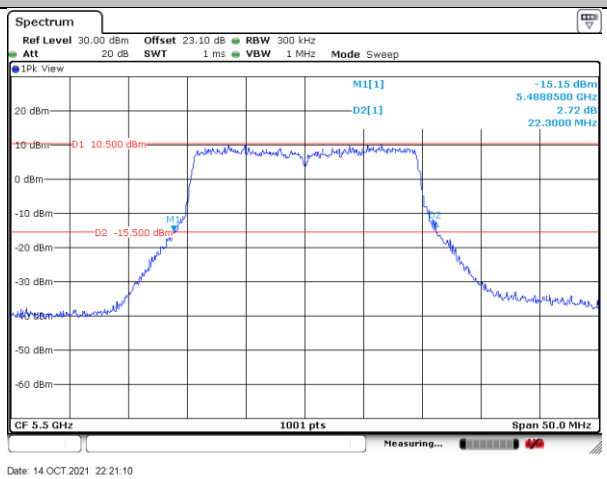
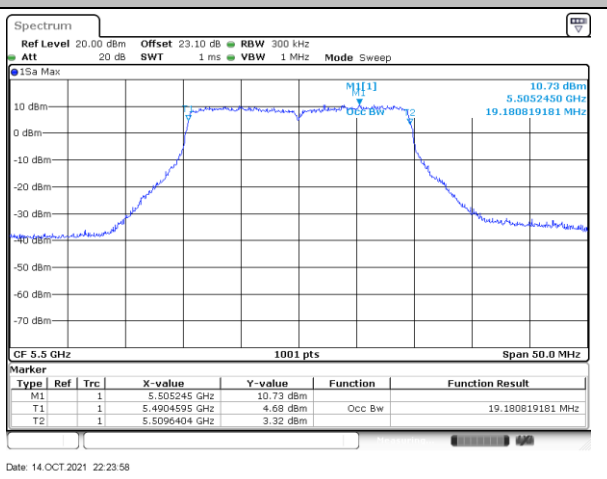
| 26dB Bandwidth | 99% Occupied Bandwidth |
|---|---|
|  |  |





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

**<802.11ax HE20 CH100 Ant. E>**

| 26dB Bandwidth | 99% Occupied Bandwidth |
|---|---|
|  |  |

# 3.2 Maximum Conducted Output Power Measurement

## 3.2.1 Limit of Maximum Conducted Output Power

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

**For the 5.15–5.25 GHz bands:**

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

**For the 5.25–5.725 GHz bands:**

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

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

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

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

## 3.2.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

### 3.2.3 Test Procedures

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

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

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter.
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01

**<TXBF Modes>**

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

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1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter
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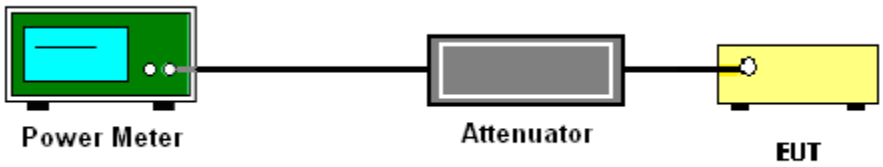
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

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

### 3.2.4 Test Setup




### 3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

# 3.3 Power Spectral Density Measurement

## 3.3.1 Limit of Power Spectral Density

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

**For the 5.15–5.25 GHz bands:**

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

**For the 5.25–5.725 GHz bands:**

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

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

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

## 3.3.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

### 3.3.3 Test Procedures

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

Section F) Maximum power spectral density.

**<CDD Modes>**

**# Method SA-2 #**

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

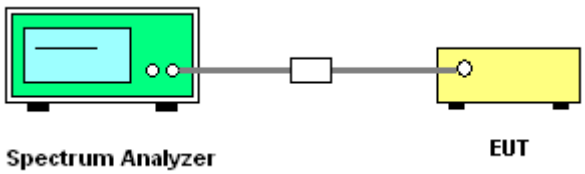
- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add 10 log(1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add 10 log(1/0.25) = 6 dB if the duty cycle is 25 percent.

1. The RF output of EUT is connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

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

   The total final Power Spectral Density is from a device with 4 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, output 3 and output 4 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

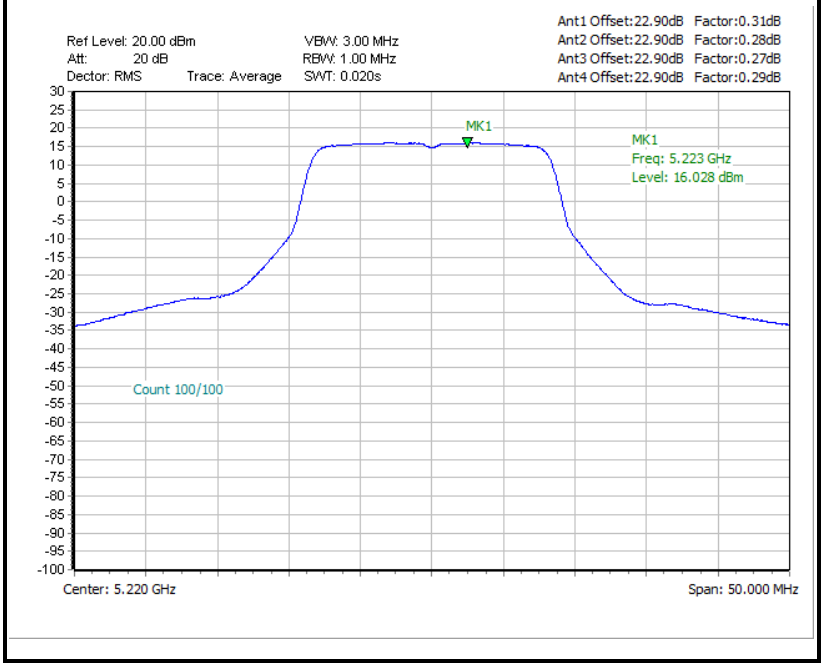
Please refer to Appendix A.

**<Radio 1>**

**<CDD Modes>**

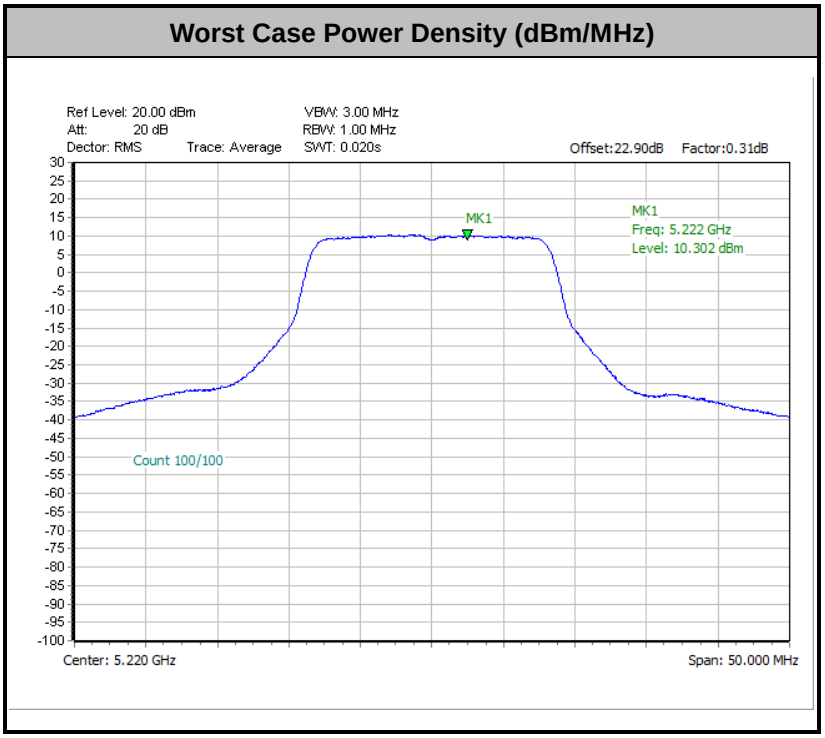
**<MIMO Ant. A + D + B + C>**

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




**Trace 1 < Ant. A >**

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



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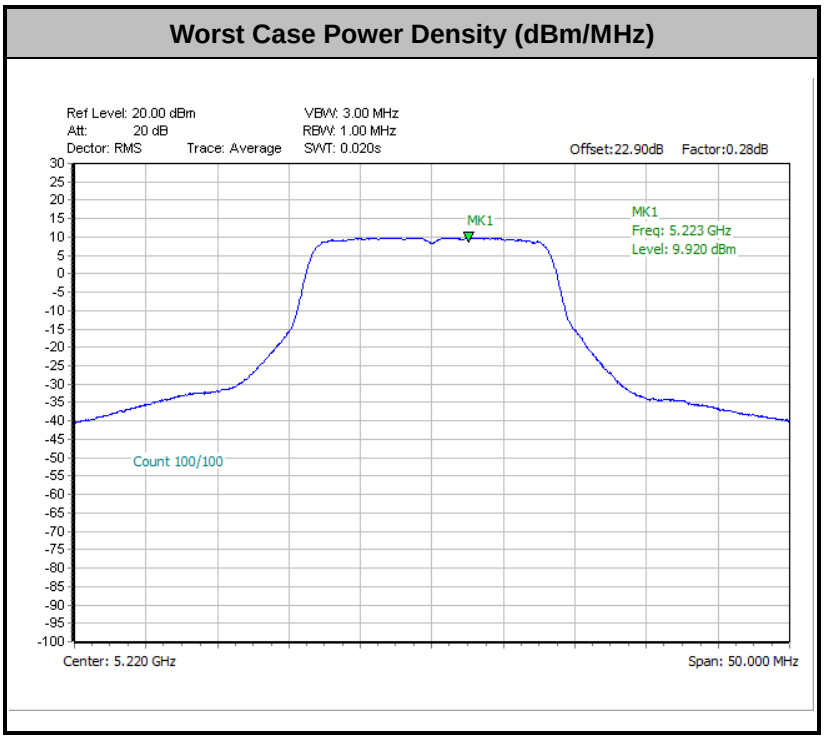
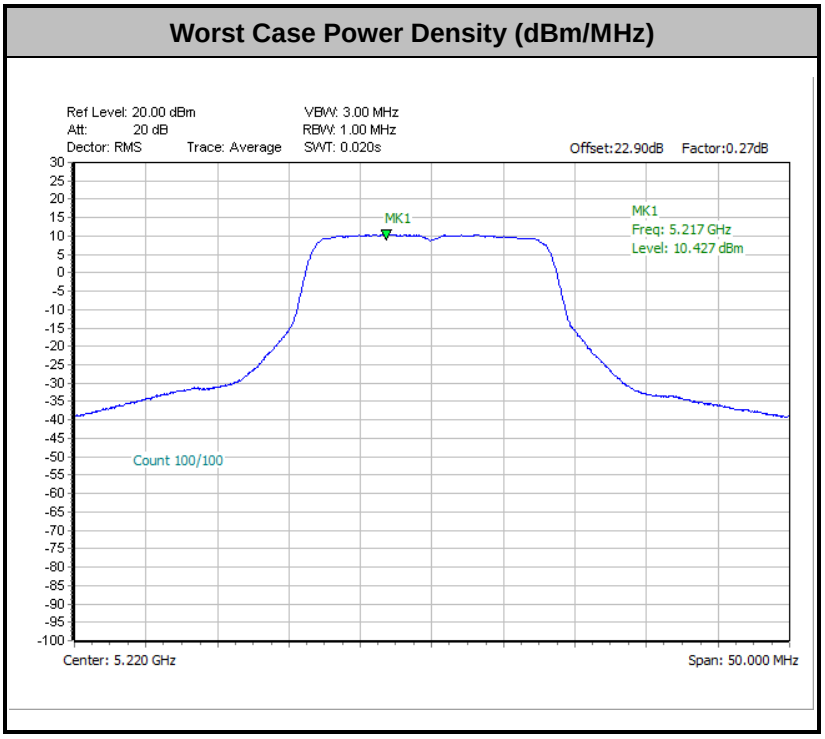
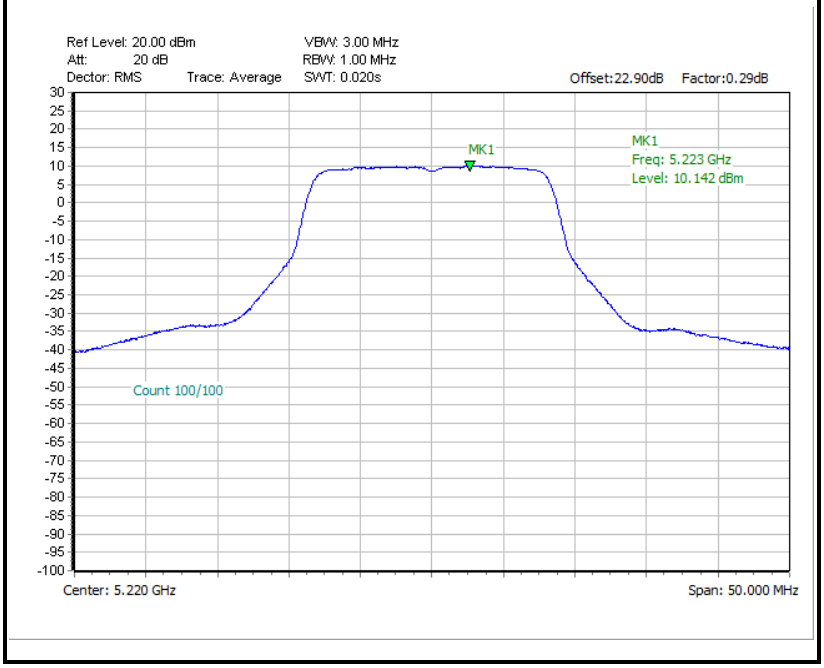



**Trace 3 < Ant. B >**



**Trace 4 < Ant. C >**

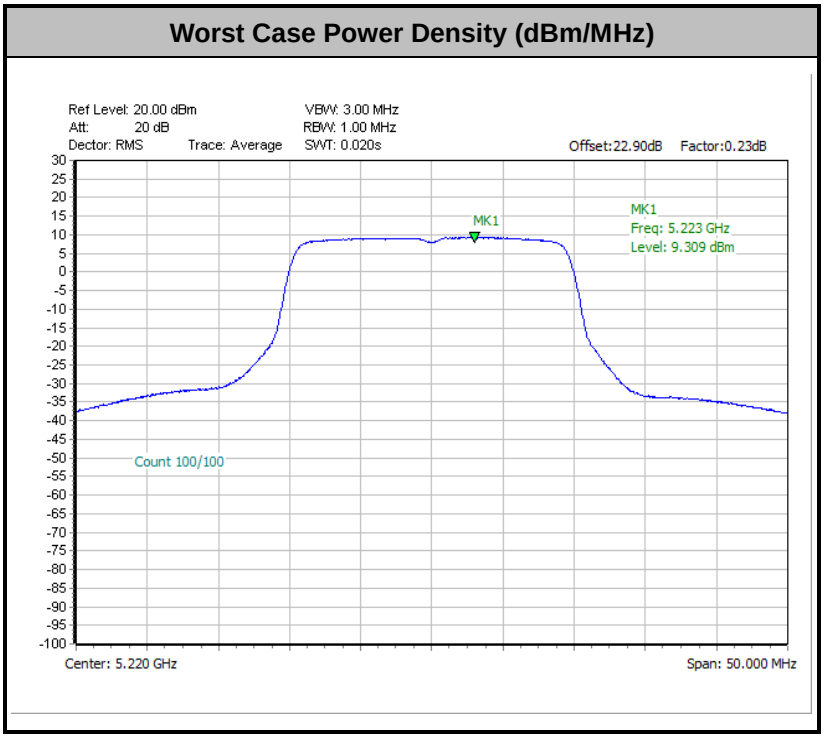
**Worst Case Power Density (dBm/MHz)**



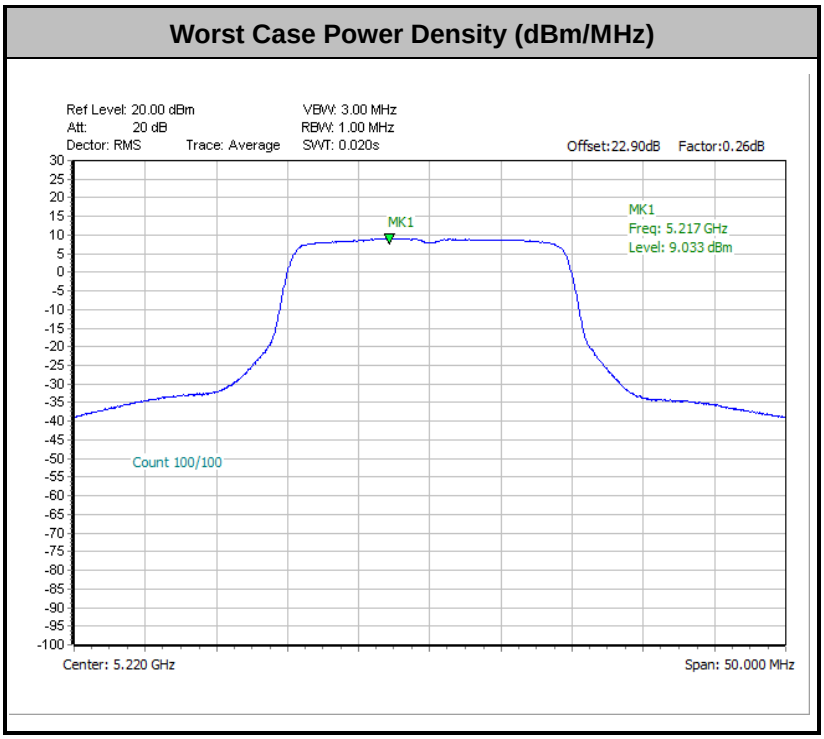

**Note:** Average Power Density (dB) = Measured value+ Duty Factor

**<802.11ax mode>**

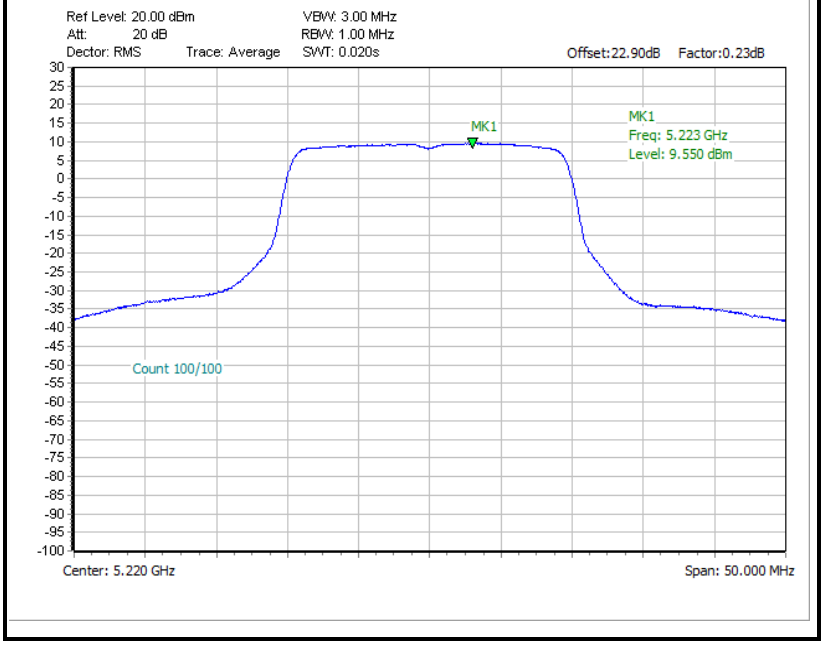
**Worst Case Power Density (dBm/MHz)**



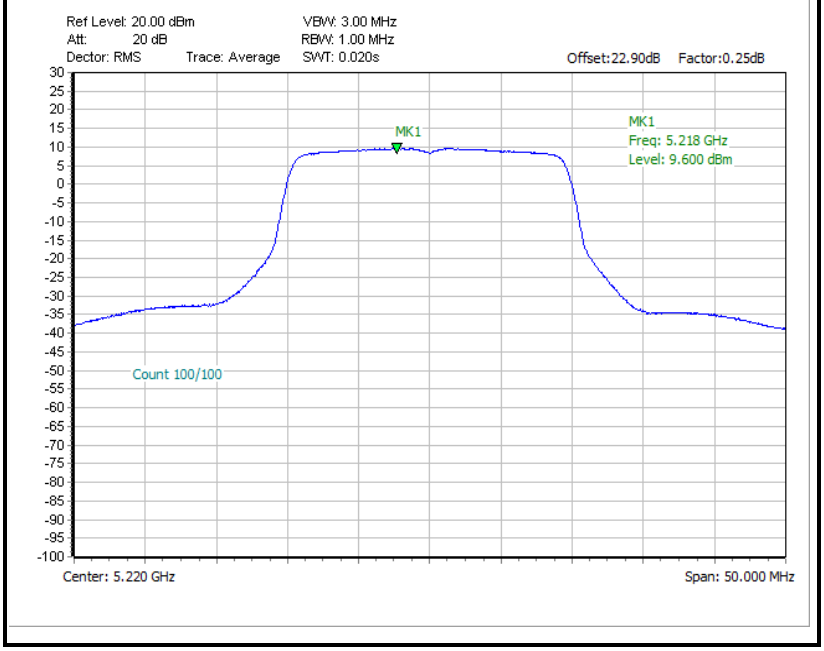

**Worst Case Power Density (dBm/MHz)**



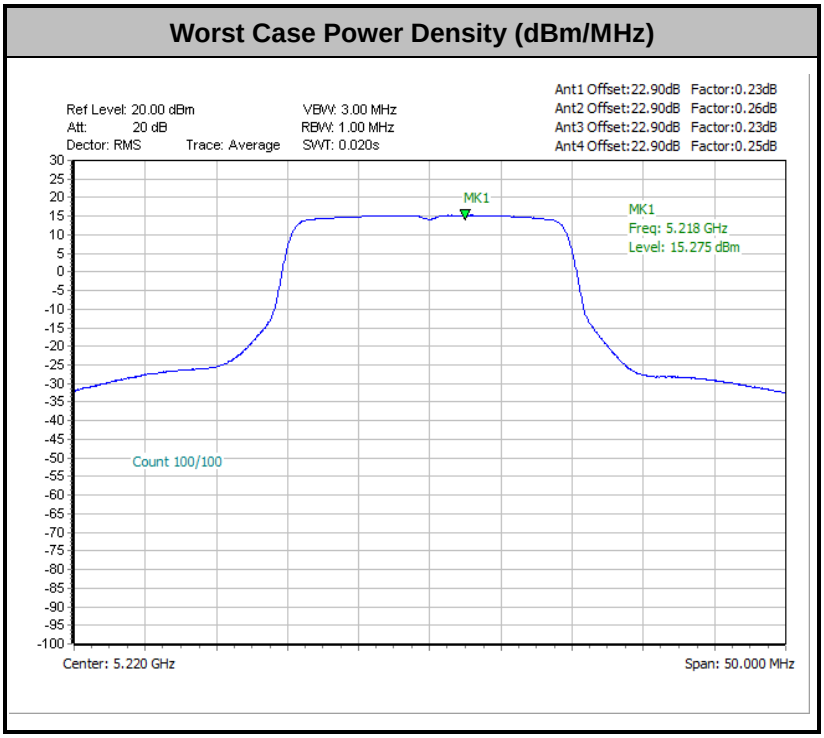
**Worst Case Power Density (dBm/MHz)**




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



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

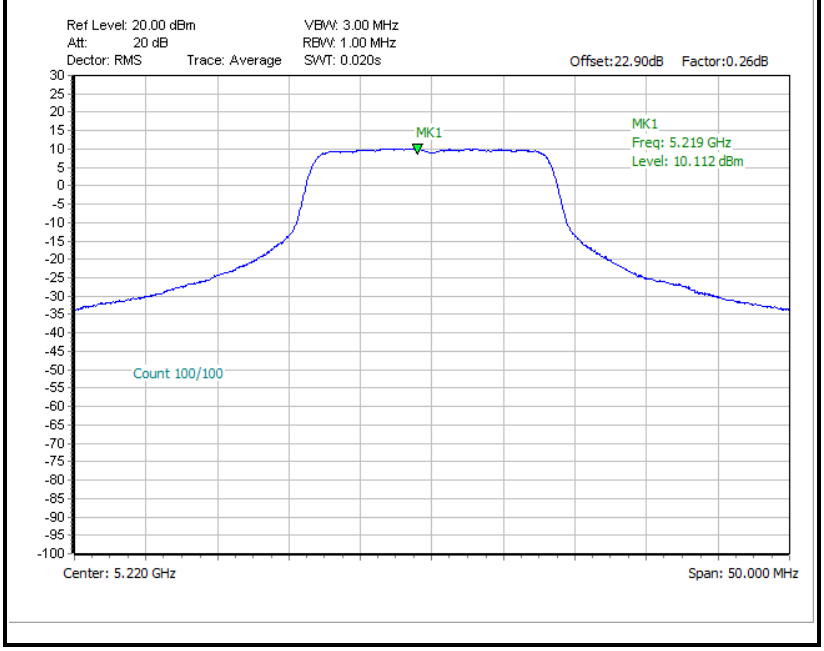


**< Radio 2>**

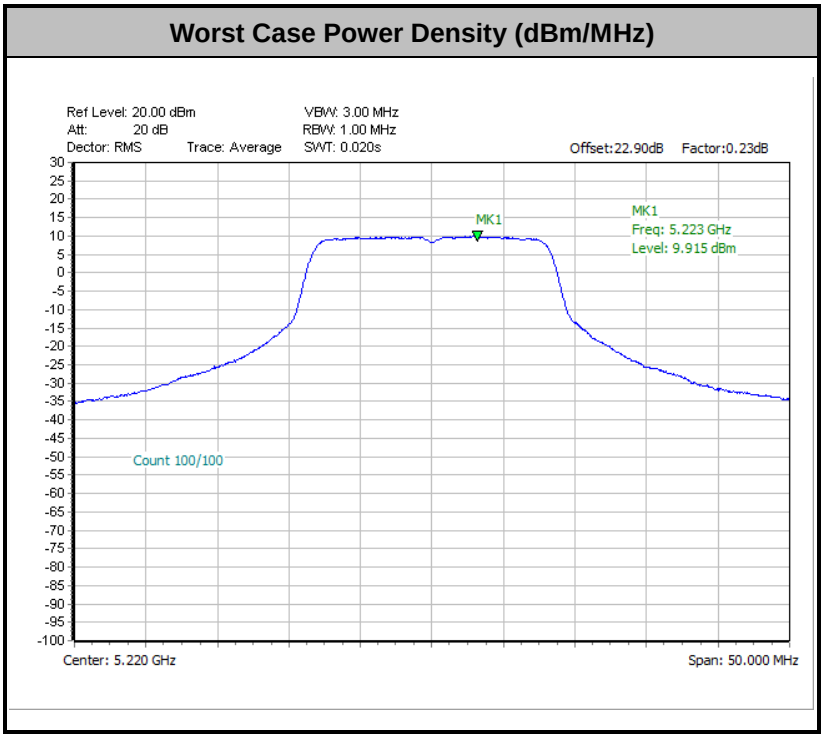
**<CDD Mode>**

**<MIMO Ant.A+D+B+C>**

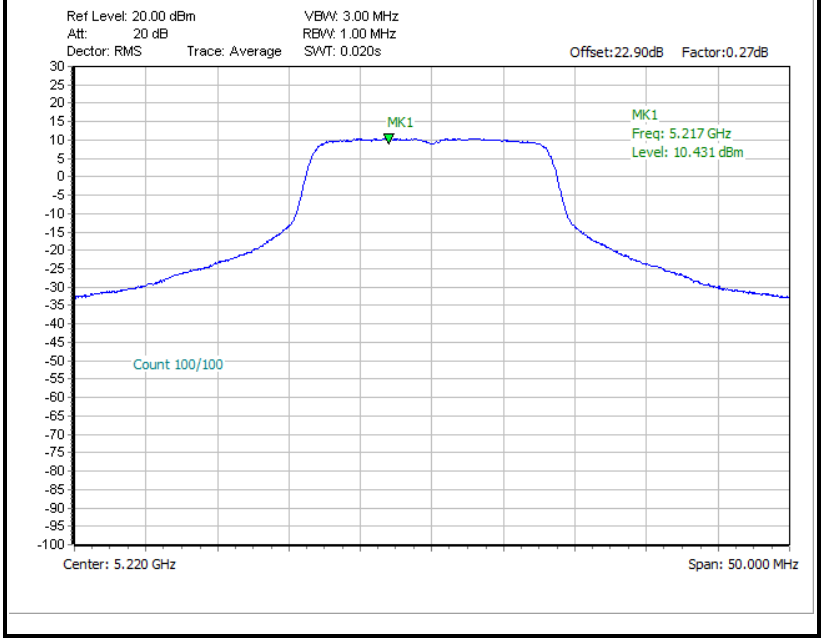
**Worst Case Power Density (dBm/MHz)**



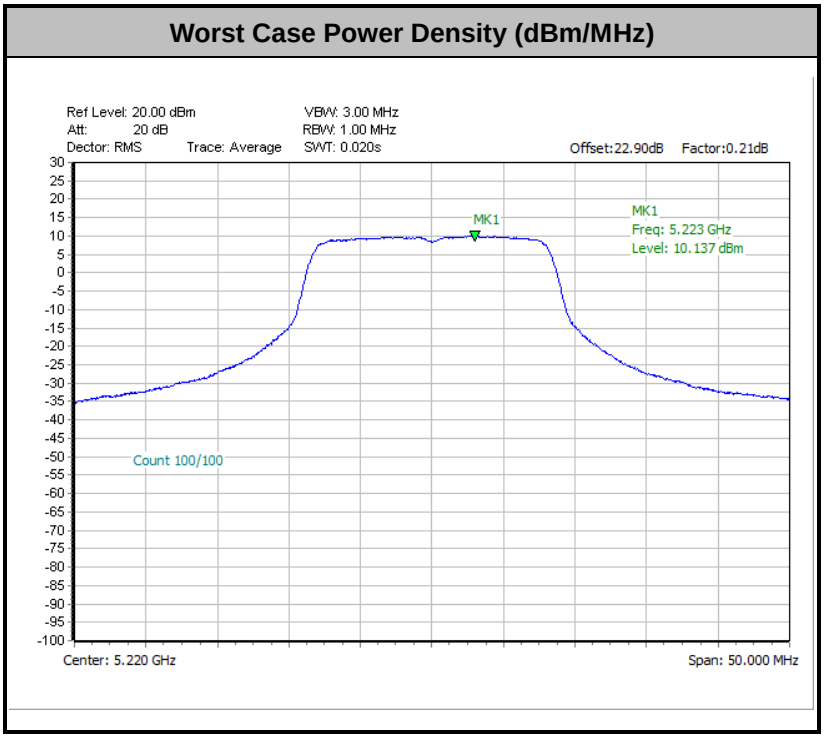
## Worst Case Power Density (dBm/MHz)



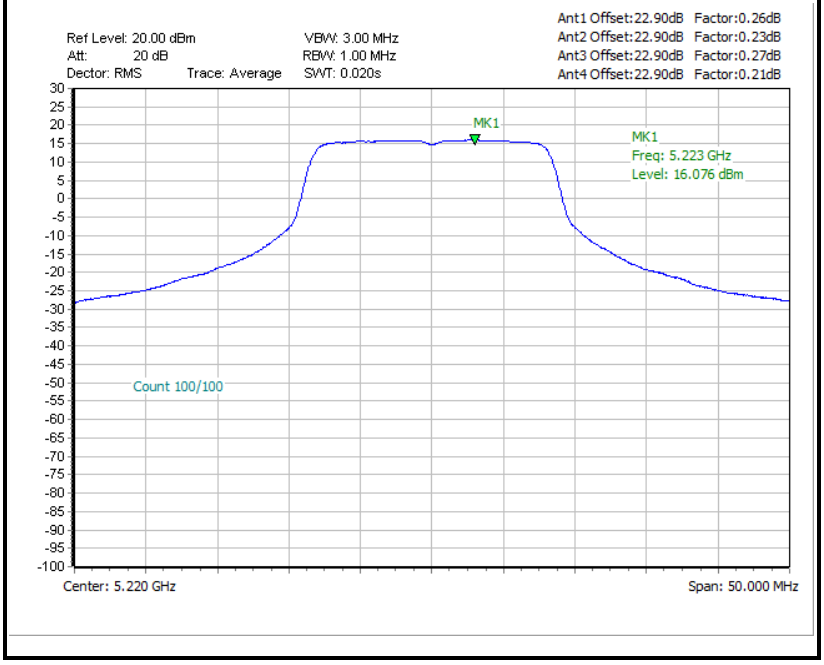

## Worst Case Power Density (dBm/MHz)



## Worst Case Power Density (dBm/MHz)

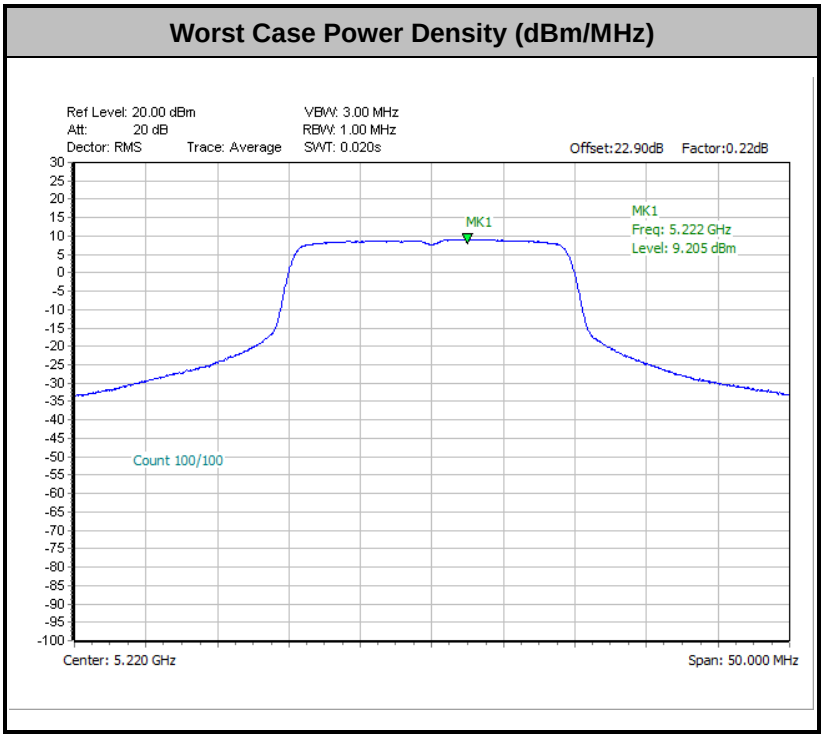



## Worst Case Power Density (dBm/MHz)

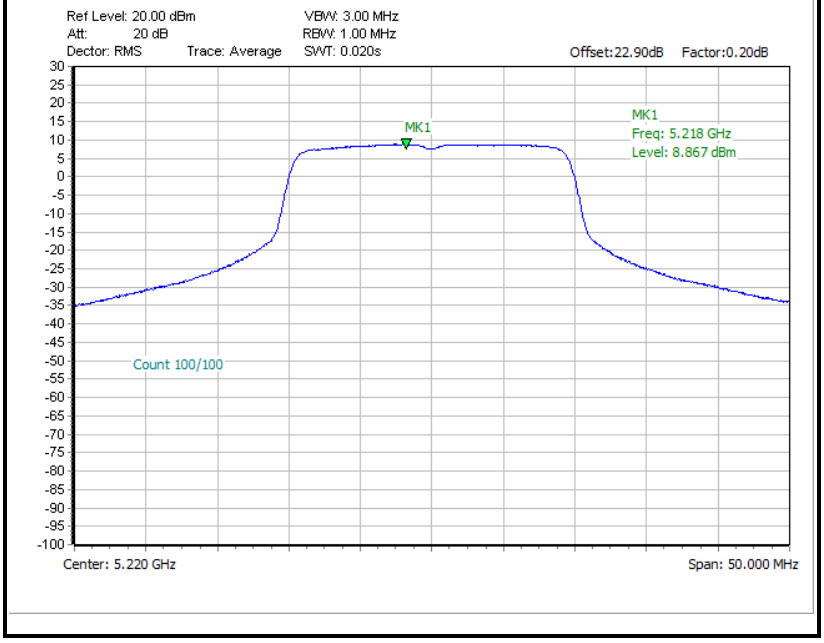


**<802.11ax mode>**

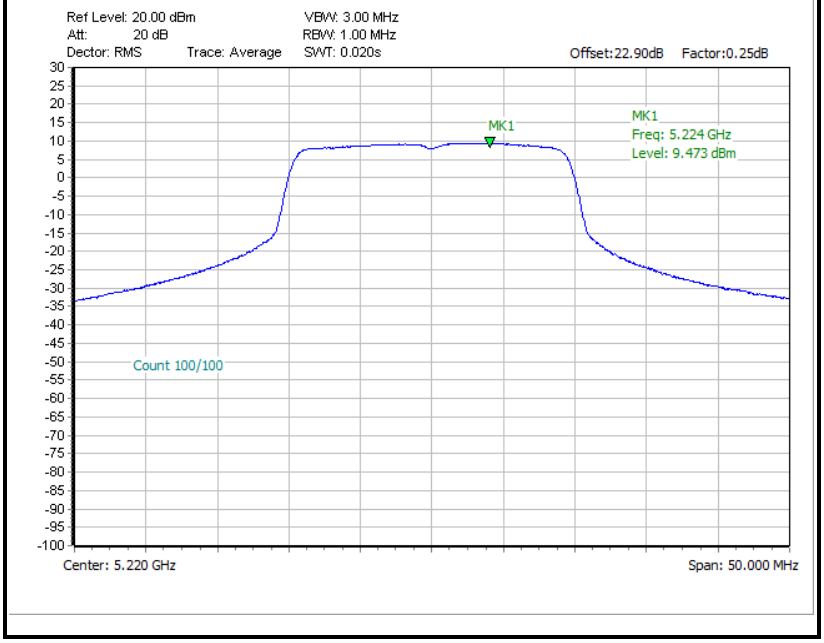
**Worst Case Power Density (dBm/MHz)**



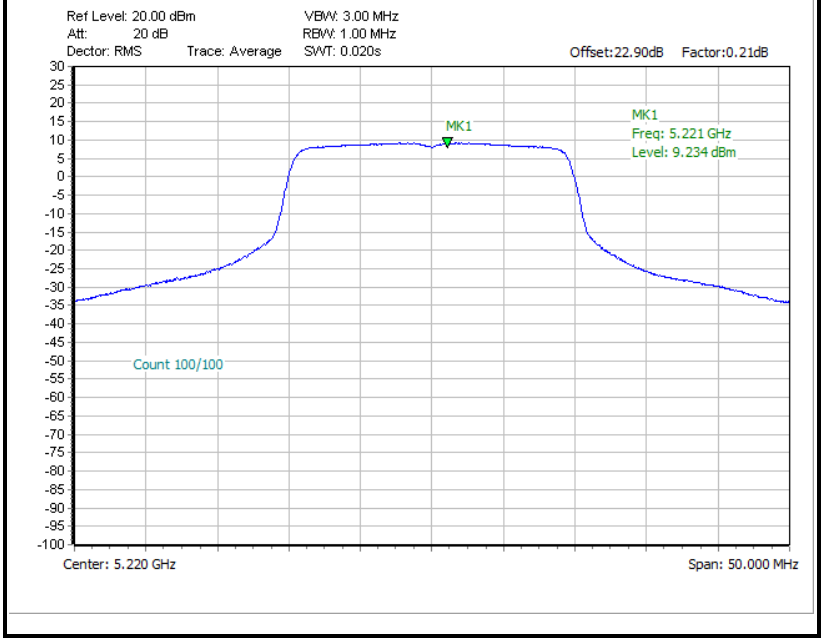

**Worst Case Power Density (dBm/MHz)**



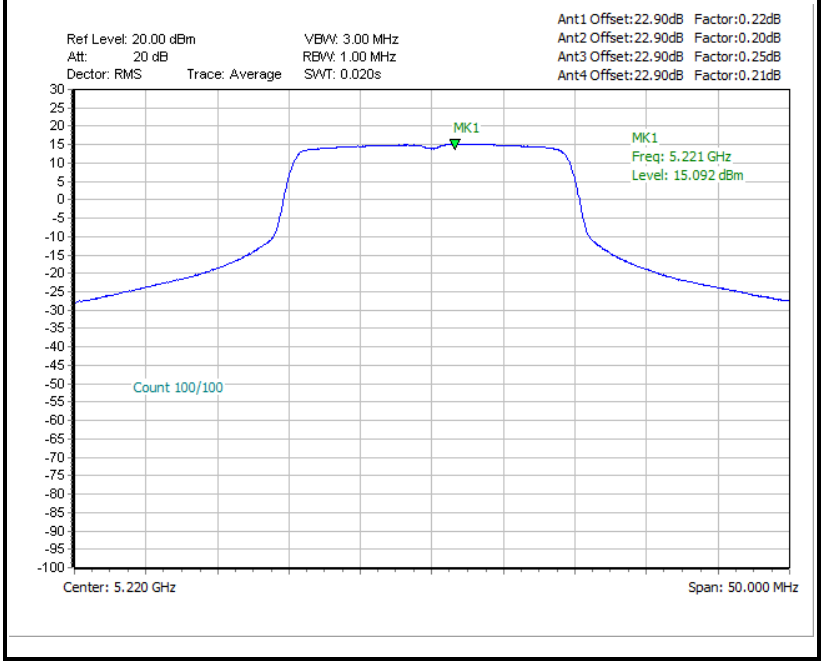
**Worst Case Power Density (dBm/MHz)**




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



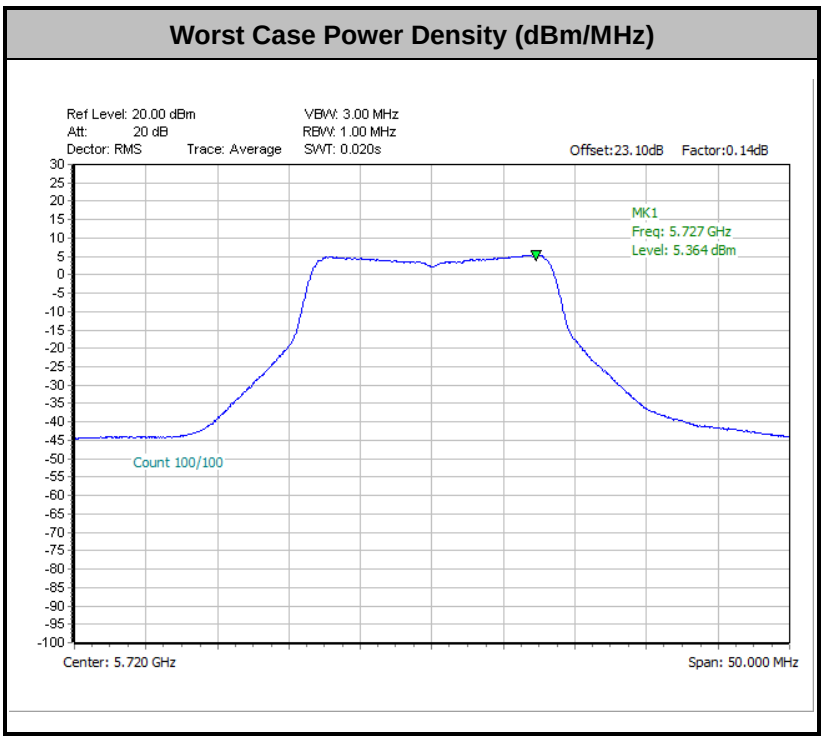
**Worst Case Power Density (dBm/MHz)**



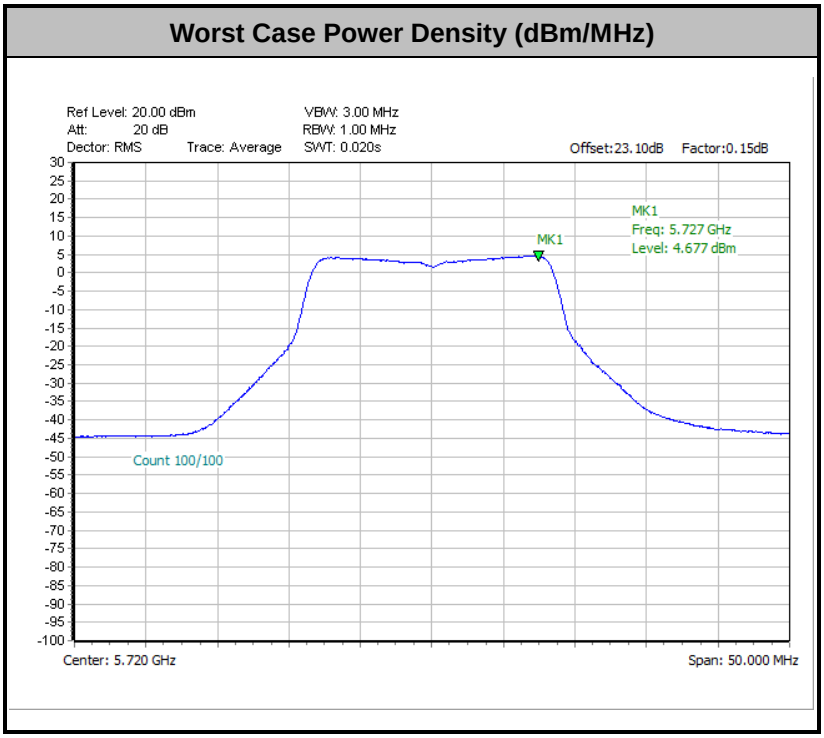

**<Radio 3>**

**<MIMO Ant.A+D+B+C>**

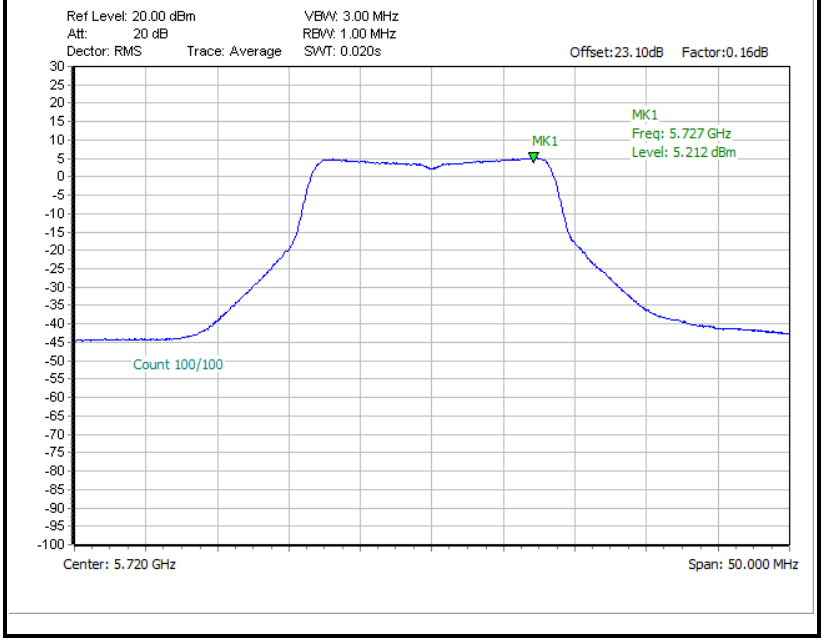
**Worst Case Power Density (dBm/MHz)**



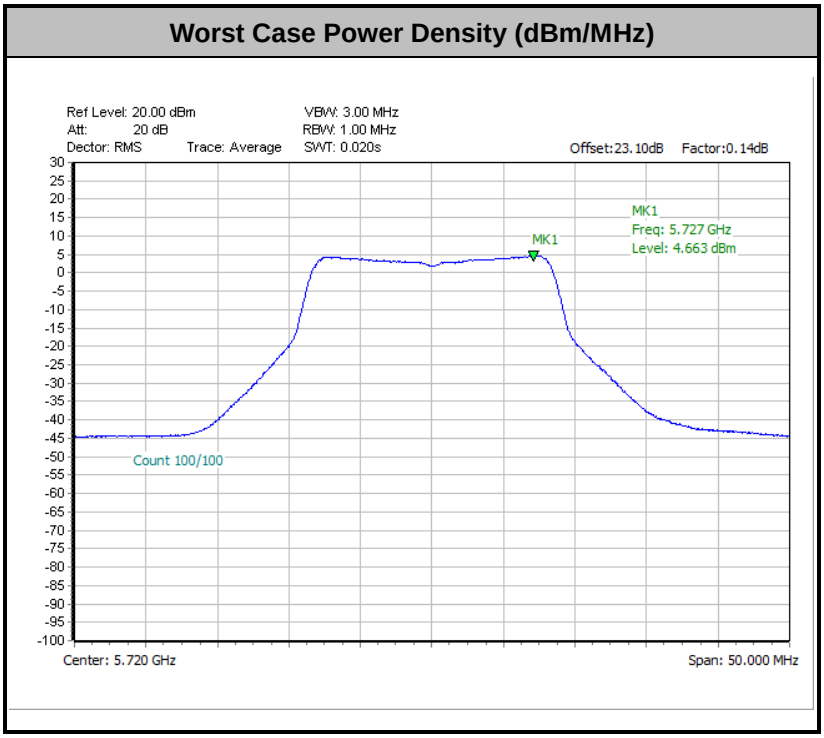
**Worst Case Power Density (dBm/MHz)**



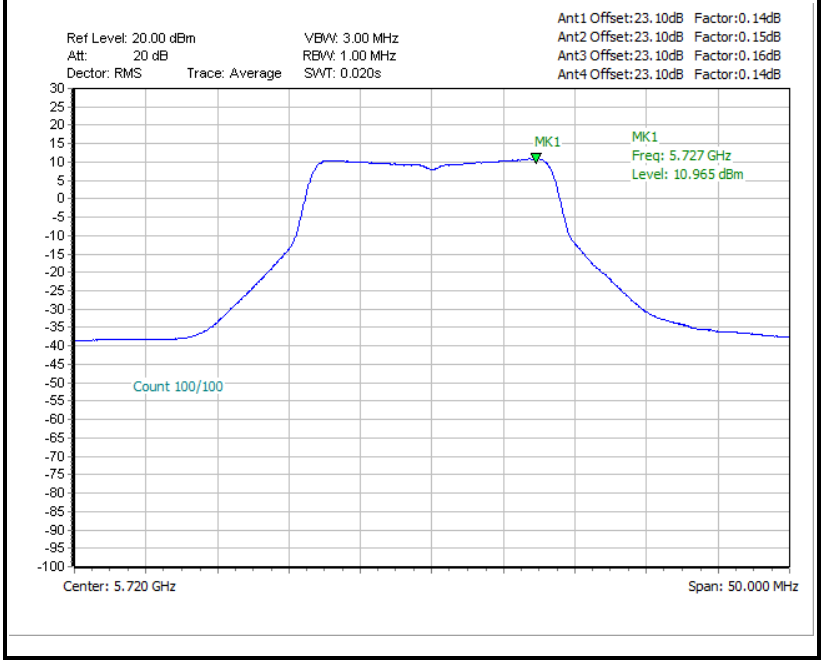

**Worst Case Power Density (dBm/MHz)**



## Worst Case Power Density (dBm/MHz)

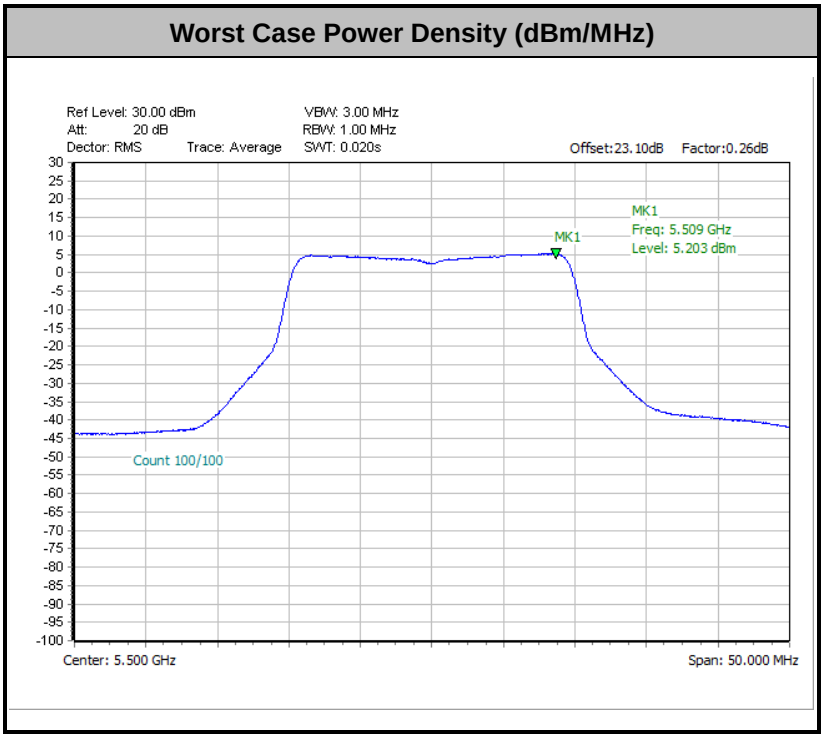



## Worst Case Power Density (dBm/MHz)

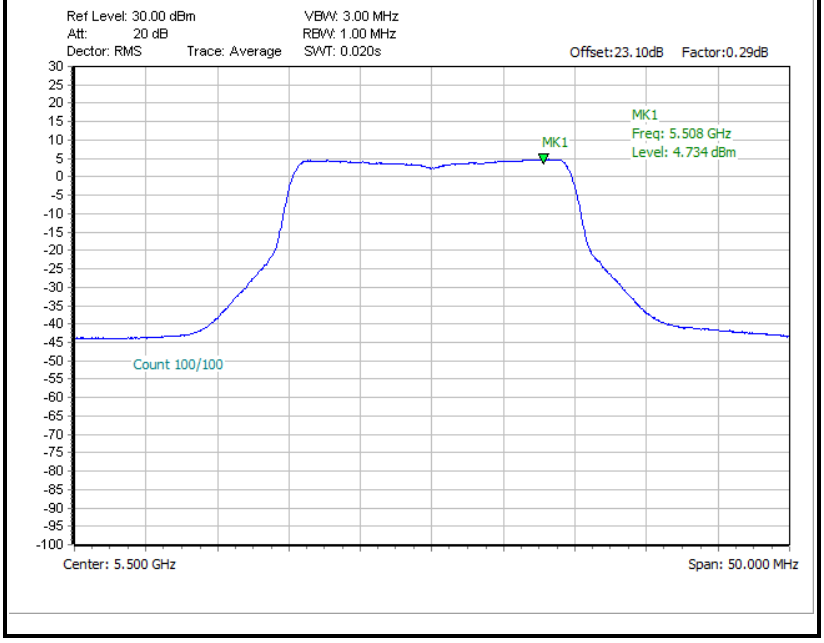


**<802.11ax mode>**

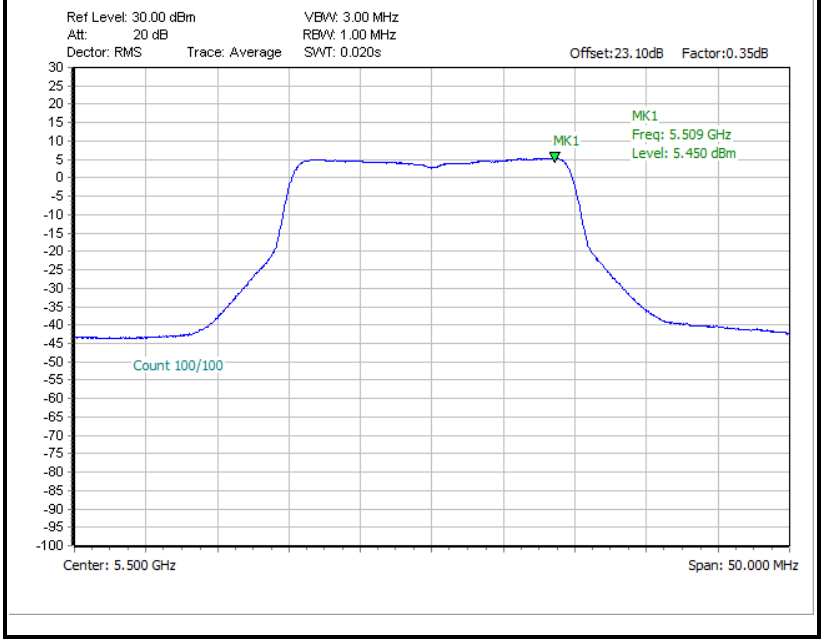
**Worst Case Power Density (dBm/MHz)**



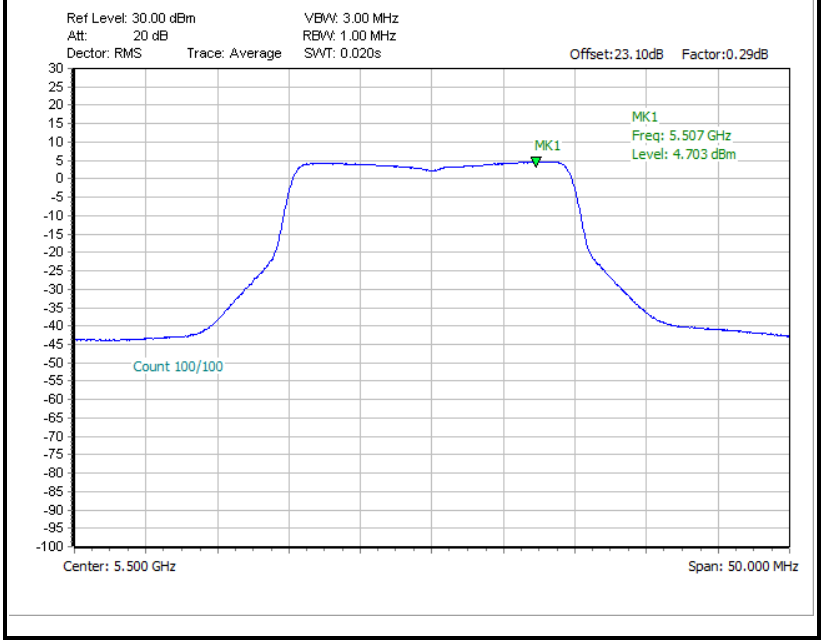

**Worst Case Power Density (dBm/MHz)**



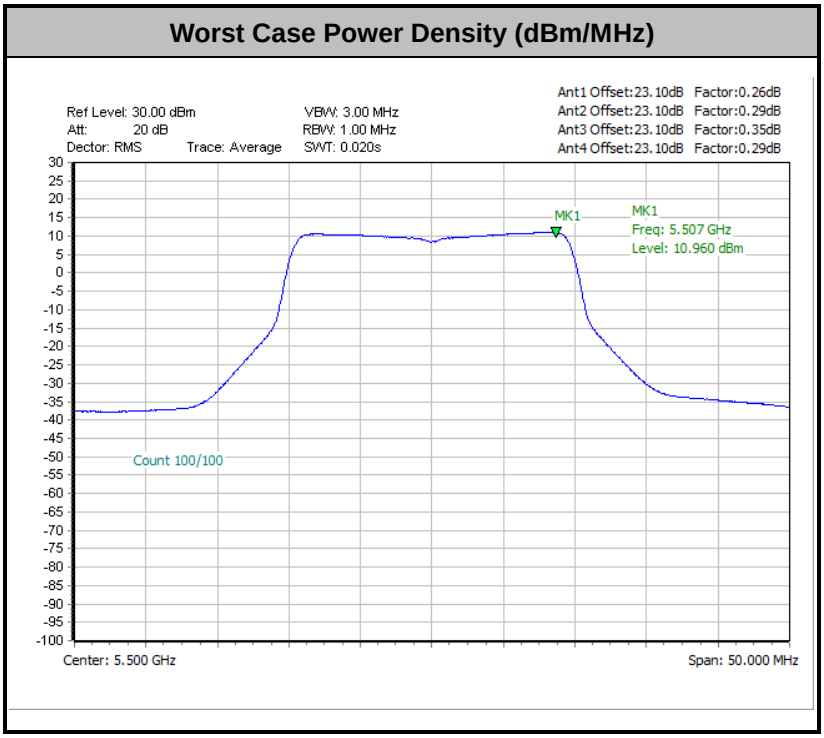
## Worst Case Power Density (dBm/MHz)




## Worst Case Power Density (dBm/MHz)



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



## 3.4 Unwanted Emissions Measurement

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

### 3.4.1 Limit of Unwanted Emissions

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

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

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

(2) Unwanted spurious emissions falls in restricted bands shall comply with the general field strength limits 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) |
|---|---|
| - 27 | 68.3 |

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

(i) Sections 15.407(b)(1-3) specifies the unwanted emissions limit for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of −27 dBm/MHz.
(ii) Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are based on the use of a peak detector.

### 3.4.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

### 3.4.3 Test Procedures

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

(1) Procedure for Unwanted Emissions Measurements Below 1000 MHz

- 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

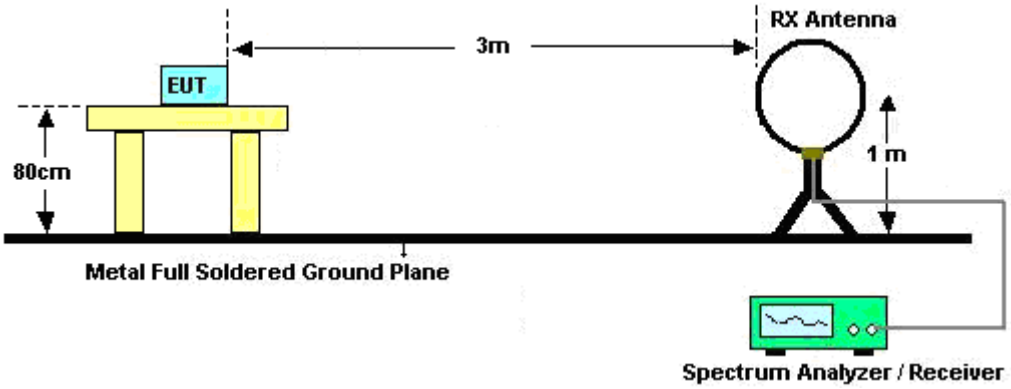
(3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz

- 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 is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is 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 is 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. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as "-".
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as "-".

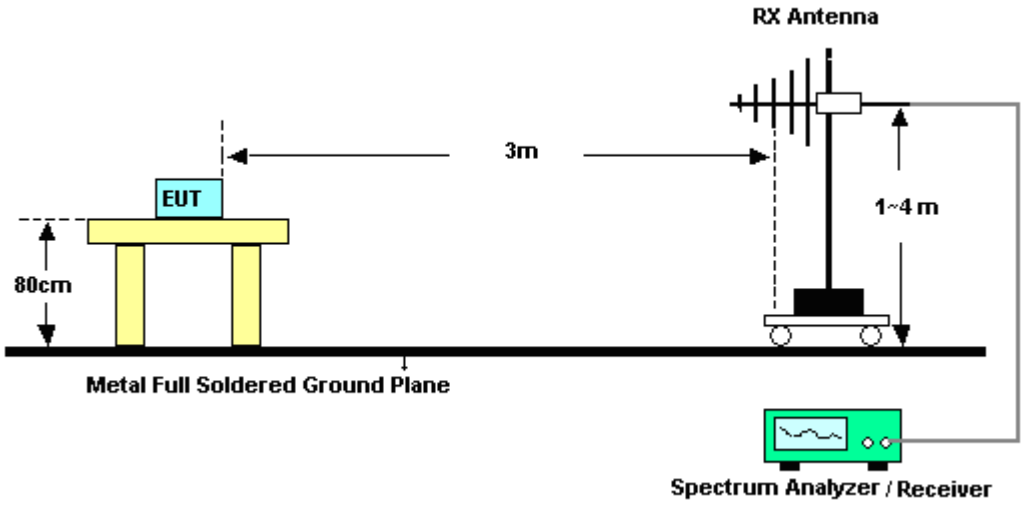
### 3.4.4 Test Setup

**For radiated emissions below 30MHz**

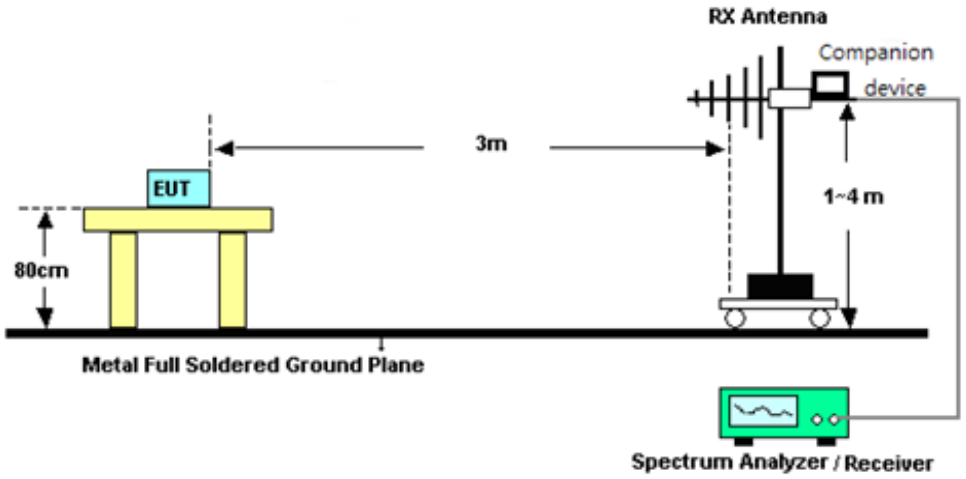


**For radiated emissions from 30MHz to 1GHz**

**<CDD Mode>**

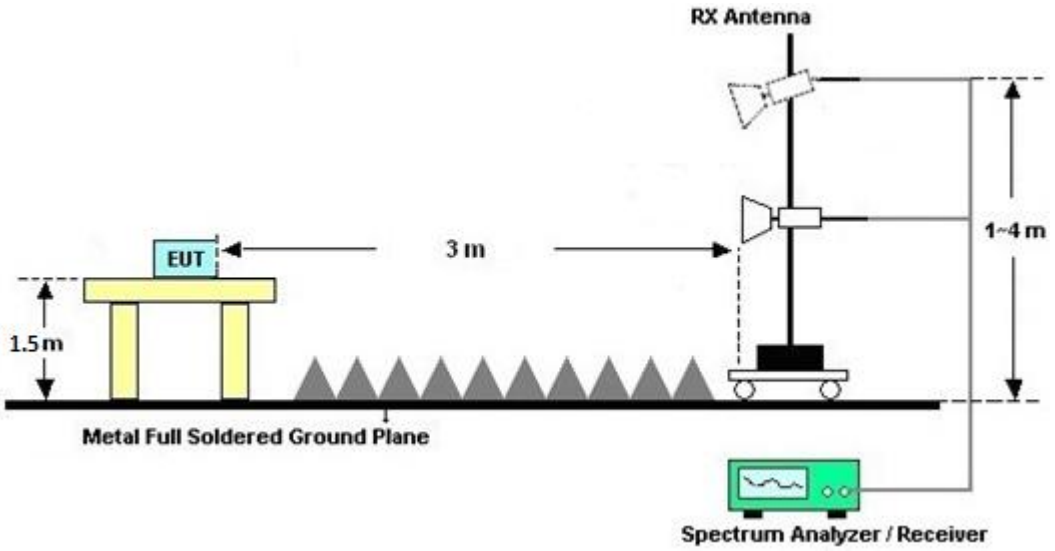



**<TXBF Modes>**

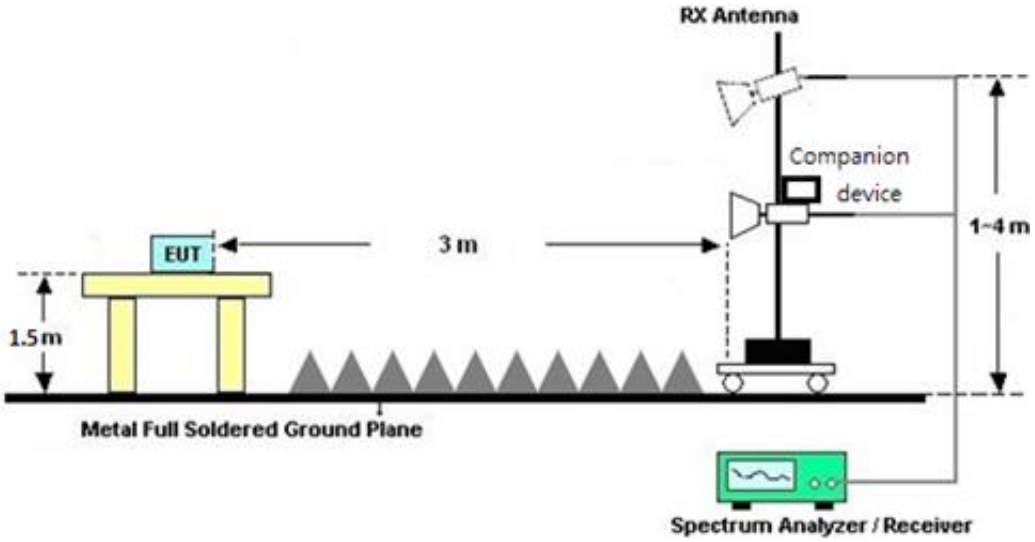


**For radiated test from 1GHz to 18GHz**

**<CDD Mode>**

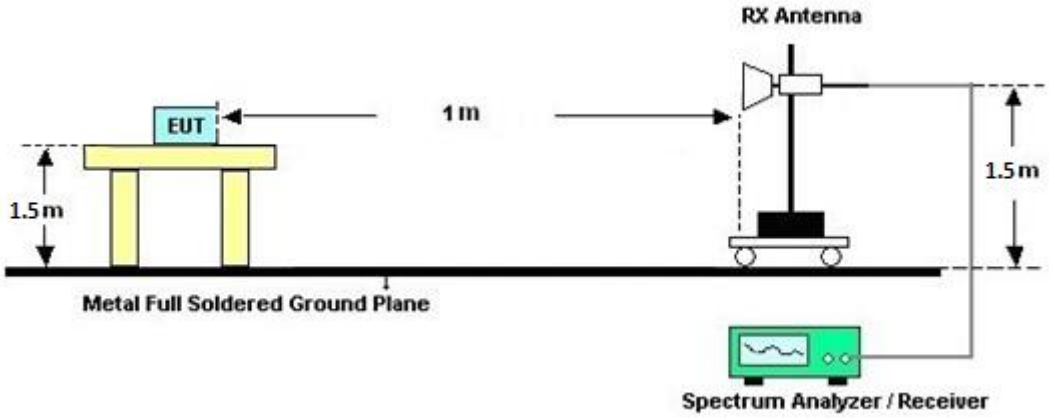



**<TXBF Modes>**

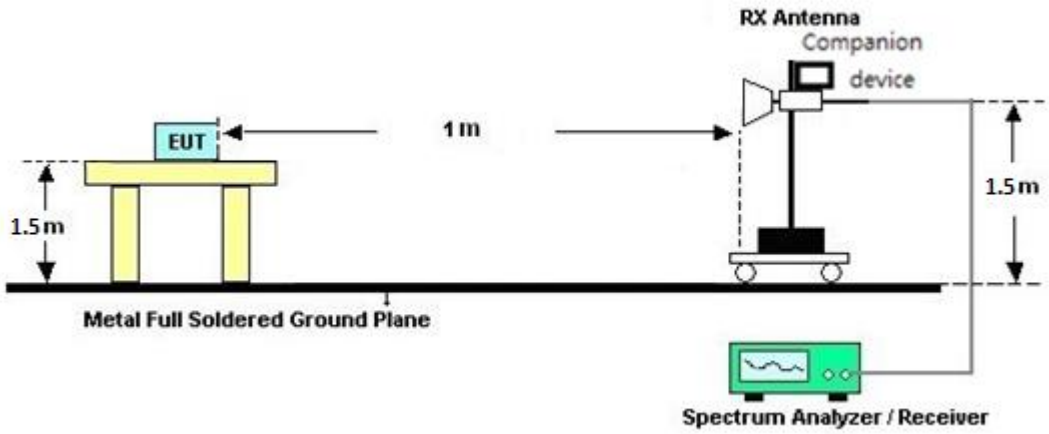


**For radiated test above 18GHz**

**<CDD Mode>**




**<TXBF Modes>**



### 3.4.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

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

Please refer to Appendix C and D.

### 3.4.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

# 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.

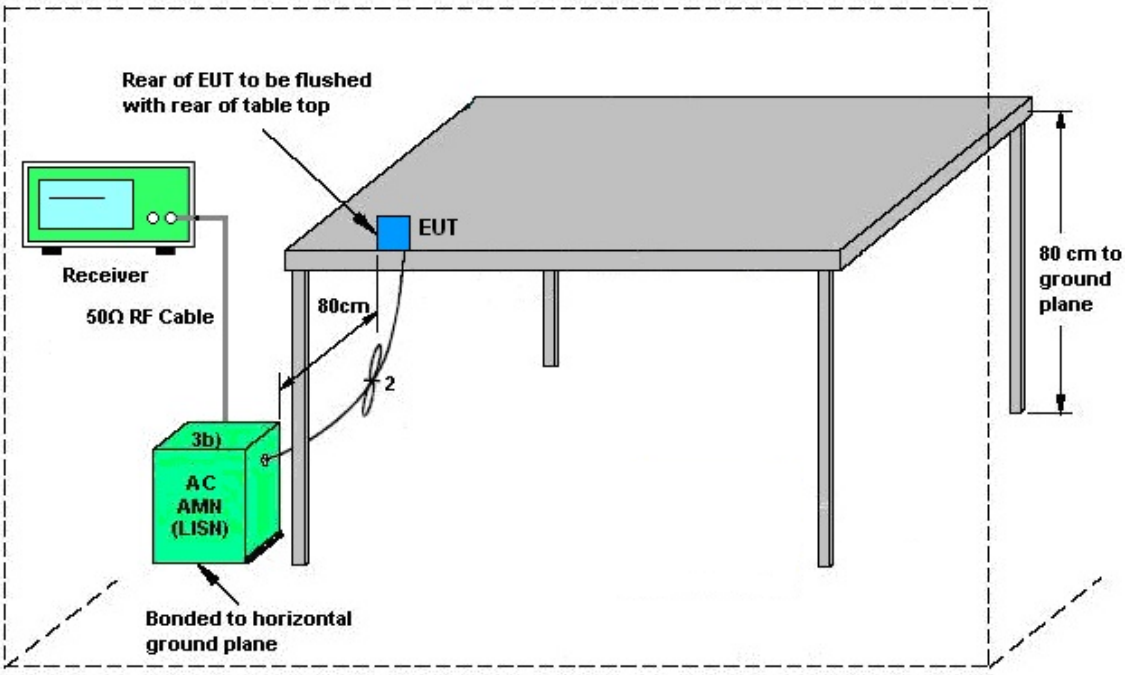
## 3.5.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

## 3.5.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is 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 shall be used.
6. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

### 3.5.4 Test Setup




AMN = Artificial mains network (LISN)
AE = Associated equipment
EUT = Equipment under test
ISN = Impedance stabilization network

### 3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

# 3.6 Antenna Requirements

## 3.6.1 Standard Applicable

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

## 3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

## 3.6.3 Antenna Gain

The device is the special case of a MIMO system with four outputs driving a cross-polarized pair of linearly polarized antennas (noted as “vertical” and “horizontal”).

Refer to KDB 662911 D01 v02r01 F)2)c) for a system in which the antennas have fixed orientations relative to one another that ensure that the antennas are cross-polarized regardless of any user actions, the directional gain is computed as follows.

The total gain—including array gain—is computed separately for each of the two polarizations using the procedures presented in KDB 662911 D01 v02r01. The highest of the total gains shall apply.

**CDD mode**

For power measurements on IEEE 802.11 devices,

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

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

$G_{ANT}$ is set equal to the gain of the antenna having the highest gain.

For PSD measurements, the directional gain calculation follows F)2)f)i) of KDB 662911 D01 Directional gain = $G_{ANT\ MAX}$ + 10 log($N_{ANT}/N_{SS}$) dBi, where $N_{SS}$ = the number of independent spatial streams of data and $G_{ANT\ MAX}$ is.the gain of the antenna having the highest gain (in dBi).

**The directional gain of EUT is listed in the following table.**

**<Radio 1, Radio 2>**

| 5GHz CDD mode | Ant A Vertical polarization (dBi) | Ant D Vertical polarization (dBi) | DG for Power (dBi) | DG for PSD (dBi) | Power Limit Reduction (dB) | PSD Limit Reduction (dB) |
|---|---|---|---|---|---|---|
| UNII-1 | 2.90 | 2.90 | 2.90 | 5.91 | 0 | 0 |
| UNII-2a | 2.90 | 2.90 | 2.90 | 5.91 | 0 | 0 |
| UNII-2c | 2.90 | 2.90 | 2.90 | 5.91 | 0 | 0 |
| **5GHz CDD mode** | **Ant B Horizontal polarization (dBi)** | **Ant C Horizontal polarization (dBi)** | **DG for Power (dBi)** | **DG for PSD (dBi)** | **Power Limit Reduction (dB)** | **PSD Limit Reduction (dB)** |
| UNII-1 | 2.90 | 2.90 | 2.90 | 5.91 | 0 | 0 |
| UNII-2a | 2.90 | 2.90 | 2.90 | 5.91 | 0 | 0 |
| UNII-2c | 2.90 | 2.90 | 2.90 | 5.91 | 0 | 0 |

**<Radio 3>**

| 5GHz CDD mode | Ant E Vertical polarization (dBi) | Ant H Vertical polarization (dBi) | DG for Power (dBi) | DG for PSD (dBi) | Power Limit Reduction (dB) | PSD Limit Reduction (dB) |
|---|---|---|---|---|---|---|
| UNII-2c | 2.90 | 2.90 | 2.90 | 5.91 | 0 | 0 |
| **5GHz CDD mode** | **Ant F Horizontal polarization (dBi)** | **Ant G Horizontal polarization (dBi)** | **DG for Power (dBi)** | **DG for PSD (dBi)** | **Power Limit Reduction (dB)** | **PSD Limit Reduction (dB)** |
| UNII-2c | 2.90 | 2.90 | 2.90 | 5.91 | 0 | 0 |

Calculation:

Directional gain of power measurement:

= max. antenna gain (2.9dBi, 2.9dBi) + 0 = 2.9 dBi

Directional gain of PSD measurement (Horizontal polarization):

= max. antenna gain (2.9dBi, 2.9dBi)+10*log(2/1) = 5.91dBi

Directional gain of PSD measurement (Vertical polarization):

= max. antenna gain (2.9dBi, 2.9dBi)+10*log(2/1) = 5.91dBi

Directional gain of PSD measurement:

= max directional gain of Horizontal and Vertical

= max. directional gain (5.91dBi, 5.91dBi) = 5.91 dBi

**TXBF modes**

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For power and PSD measurement, the directional gain calculation follows F)2)e)ii) of KDB 662911 D01 Directional gain = $G_{ANT\ MAX}$ + 10 log($N_{ANT}/N_{SS}$) dBi, where $N_{SS}$ = the number of independent spatial streams of data and $G_{ANT\ MAX}$ is.the gain of the antenna having the highest gain (in dBi).

**<Radio 1, Radio 2>**

| 5GHz TXBF mode | Ant A Vertical polarization (dBi) | Ant D Vertical polarization (dBi) | DG for Power (dBi) | DG for PSD (dBi) | Power Limit Reduction (dB) | PSD Limit Reduction (dB) |
|---|---|---|---|---|---|---|
| **UNII-1** | 2.90 | 2.90 | 5.91 | 5.91 | 0 | 0 |
| **UNII-2a** | 2.90 | 2.90 | 5.91 | 5.91 | 0 | 0 |
| **UNII-2c** | 2.90 | 2.90 | 5.91 | 5.91 | 0 | 0 |
| **5GHz TXBF mode** | **Ant B Horizontal polarization (dBi)** | **Ant C Horizontal polarization (dBi)** | **DG for Power (dBi)** | **DG for PSD (dBi)** | **Power Limit Reduction (dB)** | **PSD Limit Reduction (dB)** |
| **UNII-1** | 2.90 | 2.90 | 5.91 | 5.91 | 0 | 0 |
| **UNII-2a** | 2.90 | 2.90 | 5.91 | 5.91 | 0 | 0 |
| **UNII-2c** | 2.90 | 2.90 | 5.91 | 5.91 | 0 | 0 |

**<Radio 3>**

| 5GHz TXBF mode | Ant E Vertical polarization (dBi) | Ant H Vertical polarization (dBi) | DG for Power (dBi) | DG for PSD (dBi) | Power Limit Reduction (dB) | PSD Limit Reduction (dB) |
|---|---|---|---|---|---|---|
| **UNII-2c** | 2.90 | 2.90 | 5.91 | 5.91 | 0 | 0 |
| **5GHz TXBF mode** | **Ant F Horizontal polarization (dBi)** | **Ant G Horizontal polarization (dBi)** | **DG for Power (dBi)** | **DG for PSD (dBi)** | **Power Limit Reduction (dB)** | **PSD Limit Reduction (dB)** |
| **UNII-2c** | 2.90 | 2.90 | 5.91 | 5.91 | 0 | 0 |

Calculation:

Directional gain of power and PSD measurement (Horizontal polarization):

= max. antenna gain (2.9dBi, 2.9dBi)+10*log(2/1) = 5.91dBi

Directional gain of power and PSD measurement (Vertical polarization):

= max. antenna gain (2.9dBi, 2.9dBi)+10*log(2/1) = 5.91dBi

Directional gain of PSD measurement:

= max directional gain of Horizontal and Vertical

= max. directional gain (5.91dBi, 5.91dBi) = 5.91 dBi

# 4 List of List of Measuring Equipment

| Instrument | Brand Name | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|---|---|---|---|---|---|---|---|---|
| Loop Antenna | R&S | HFH2-Z2E | 100840 | 9kHz~30MHz | Jun. 21, 2021 | Aug. 15, 2021~ Nov. 05, 2021 | Jun. 20, 2022 | Radiation (03CH02-CA) |
| Bilog Antenna | TESEQ | 6111D | 50392 | 30MHz~1GHz | Aug. 10, 2021 | Aug. 15, 2021~ Nov. 05, 2021 | Aug. 09, 2022 | Radiation (03CH02-CA) |
| Horn Antenna | SCHWARZBECK | BBHA 9120D | 02113 | 1GHz~18GHz | Jul. 08, 2021 | Aug. 15, 2021~ Nov. 05, 2021 | Jul. 07, 2022 | Radiation (03CH02-CA) |
| Horn Antenna | SCHWARZBECK | BBHA 9170D | 00842 | 18GHz~40GHz | Jul. 20, 2021 | Aug. 15, 2021~ Nov. 05, 2021 | Jul. 19, 2022 | Radiation (03CH02-CA) |
| Amplifier | SONOMA | 310N | 372240 | N/A | Aug. 09, 2021 | Aug. 15, 2021~ Nov. 05, 2021 | Aug. 08, 2022 | Radiation (03CH02-CA) |
| Preamplifier | Keysight | 83017A | MY53270323 | 1GHz~26.5GHz | Jul. 27, 2021 | Aug. 15, 2021~ Nov. 05, 2021 | Jul. 26, 2022 | Radiation (03CH02-CA) |
| Preamplifier | E-instrument | ERA-100M-18G-56-01-A70 | EC1900251 | 1GHz~18GHz | Mar. 30, 2021 | Aug. 15, 2021~ Nov. 05, 2021 | Mar. 29, 2022 | Radiation (03CH02-CA) |
| Preamplifier | Jet-Power | JPA0118-55-303 | 17100018000 55004 | 1GHz~18GHz | Jul. 21, 2021 | Aug. 15, 2021~ Nov. 05, 2021 | Jul. 20, 2022 | Radiation (03CH02-CA) |
| Preamplifier | EMEC | EMC18G40G | 60725 | 18GHz-40GHz | Jul. 21, 2021 | Aug. 15, 2021~ Nov. 05, 2021 | Jul. 20, 2022 | Radiation (03CH02-CA) |
| Spectrum Analyzer | Keysight | N9010A | MY54200485 | 10Hz~44GHz | Mar. 05, 2021 | Aug. 15, 2021~ Nov. 05, 2021 | Mar. 04, 2022 | Radiation (03CH02-CA) |
| Filter | Wainwright | WHKX8-5872.5-6750-18000-40ST | SN08 | 6.75GHz High Pass Filter | Jul. 23, 2021 | Aug. 15, 2021~ Nov. 05, 2021 | Jul. 22, 2022 | Radiation (03CH02-CA) |
| Filter | Wainwright | WHKX12-2700-3000-18000-60ST | SN10 | 3 GHz High Pass Filter | Jul. 23, 2021 | Aug. 15, 2021~ Nov. 05, 2021 | Jul. 22, 2022 | Radiation (03CH02-CA) |
| Filter | Wainwright | WLK12-1200-1272-11000-40SS | SN1 | 1.2G Low Pass | Jul. 23, 2021 | Aug. 15, 2021~ Nov. 05, 2021 | Jul. 22, 2022 | Radiation (03CH02-CA) |
| Hygrometer | TESEO | 608-H1 | 45142602 | N/A | Aug. 04, 2021 | Aug. 15, 2021~ Nov. 05, 2021 | Aug. 03, 2022 | Radiation (03CH02-CA) |
| Controller | ChainTek | 3000-1 | N/A | Control Turn table & Ant Mast | N/A | Aug. 15, 2021~ Nov. 05, 2021 | N/A | Radiation (03CH02-CA) |
| Antenna Mast | ChainTek | MBS-520-1 | N/A | 1m~4m | N/A | Aug. 15, 2021~ Nov. 05, 2021 | N/A | Radiation (03CH02-CA) |
| Turn Table | ChainTek | T-200-S-1 | N/A | 0~360 Degree | N/A | Aug. 15, 2021~ Nov. 05, 2021 | N/A | Radiation (03CH02-CA) |
| Software | Audix | E3 | N/A | N/A | N/A | Aug. 15, 2021~ Nov. 05, 2021 | N/A | Radiation (03CH02-CA) |
| Hygrometer | Testo | 608-H1 | 45142595 | N/A | Sep. 03, 2021 | Oct. 01, 2021~ Dec. 01, 2021 | Sep. 02, 2022 | Conducted (TH01-CA) |
| Power Sensor | EM Electronics Corporation | RPR3006W | RPR6W-1901026 | 10MHz-6GHz | Jul. 26, 2021 | Oct. 01, 2021~ Dec. 01, 2021 | Jul. 25, 2022 | Conducted (TH01-CA) |
| Switch Box & RF Cable | EM Electronics | EMSW26 | 1090304 | N/A | Dec. 30, 2020 | Oct. 01, 2021~ Dec. 01, 2021 | Dec. 29, 2021 | Conducted (TH01-CA) |
| Spectrum Analyzer | Rohde & Schwarz | FSV40 | 101089 | 10Hz-40GHz | Jun. 02, 2021 | Oct. 01, 2021~ Dec. 01, 2021 | Jun. 01, 2022 | Conducted (TH01-CA) |
| Power Sensor | EM Electronics Corporation | RPR3006W #010 | RPR6W-2101003 | 10MHz-8GHz | Apr. 15, 2021 | Oct. 01, 2021~ Nov. 30, 2021 | Apr. 14, 2022 | Conducted (TH01-CA) |

| Instrument | Brand Name | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|---|---|---|---|---|---|---|---|---|
| LISN | TESEQ | NNB51 | 47407 | N/A | Jul. 21, 2021 | Dec. 17, 2021 | Jul. 20, 2022 | Conduction (CO01-CA) |
| EMI Test Receiver | R&S | ESR7 | 102177 | 9KHz~7GHz | Jun. 02, 2021 | Dec. 17, 2021 | Jun. 01, 2022 | Conduction (CO01-CA) |
| Pulse limiter with 10dB attenuation | R&S | VTSD 9561-F N | 9561-F-N00412 | N/A | Jul. 07, 2021 | Dec. 17, 2021 | Jul. 06, 2022 | Conduction (CO01-CA) |
| Test Software | R&S | EMC32 V10.30.0 | N/A | N/A | N/A | Dec. 17, 2021 | N/A | Conduction (CO01-CA) |

# 5 Uncertainty of Evaluation

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

| | |
|---|---|
| **Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))** | **2.0 dB** |

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

| | |
|---|---|
| **Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))** | **4.7 dB** |

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

| | |
|---|---|
| **Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))** | **6.2 dB** |

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

| | |
|---|---|
| **Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))** | **6.5 dB** |

# Appendix A. Test Result of Conducted Test Items

| | | | | |
|---|---|---|---|---|
| Test Engineer | LilianaGonzalez, Andy Kao | Temperature | 17.1~22.5 | °C |
| Test Date | 2021/10/1~2021/12/01 | Relative Humidity | 32.40~54.80 | % |

**<Radio 1>** Report Number : FR210728001D

**<CDD>**

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

| UNII-1 MIMO 4Tx Mode Ant A + D + B + C | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | 26 dB Bandwidth (MHz) | | | | 99% Bandwidth (MHz) | | | | IC 99% Bandwidth EIRP Limit (dBm) |
| | | | | | Ant A | Ant D | Ant B | Ant C | Ant A | Ant D | Ant B | Ant C | Ant A + D + B + C |
| 11a | 6Mbps | 4 | 36 | 5180 | 20.30 | 20.60 | 20.60 | 20.50 | 16.48 | 16.43 | 16.43 | 16.43 | 22.16 |
| 11a | 6Mbps | 4 | 44 | 5220 | 20.65 | 20.75 | 20.60 | 20.50 | 16.48 | 16.48 | 16.48 | 16.43 | 22.16 |
| 11a | 6Mbps | 4 | 48 | 5240 | 20.60 | 20.75 | 20.40 | 20.45 | 16.43 | 16.48 | 16.43 | 16.43 | 22.16 |

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

| FCC UNII-1 MIMO 4Tx Mode Ant A + D + B + C | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTx | CH. | Freq. (MHz) | Average Conducted Power (dBm) | | | | | FCC Power Limit (dBm) | DG (dBi) | Pass /Fail |
| | | | | | Ant A | Ant D | Ant B | Ant C | SUM | Ant A + D + B + C | Ant A + D + B + C | |
| 11a | 6Mbps | 4 | 36 | 5180 | 20.74 | 20.34 | 20.86 | 20.38 | 26.61 | 30.00 | 2.90 | Pass |
| 11a | 6Mbps | 4 | 44 | 5220 | 21.68 | 21.37 | 21.80 | 21.44 | 27.60 | 30.00 | 2.90 | Pass |
| 11a | 6Mbps | 4 | 48 | 5240 | 21.89 | 21.14 | 21.74 | 21.35 | 27.56 | 30.00 | 2.90 | Pass |
| HT20 | MCS0 | 4 | 36 | 5180 | 21.07 | 20.65 | 21.11 | 20.68 | 26.90 | 30.00 | 2.90 | Pass |
| HT20 | MCS0 | 4 | 44 | 5220 | 21.28 | 20.89 | 21.39 | 21.19 | 27.21 | 30.00 | 2.90 | Pass |
| HT20 | MCS0 | 4 | 48 | 5240 | 21.49 | 20.69 | 21.38 | 21.03 | 27.18 | 30.00 | 2.90 | Pass |
| HT40 | MCS0 | 4 | 38 | 5190 | 17.68 | 17.30 | 17.71 | 17.37 | 23.54 | 30.00 | 2.90 | Pass |
| HT40 | MCS0 | 4 | 46 | 5230 | 21.49 | 20.88 | 21.37 | 21.04 | 27.22 | 30.00 | 2.90 | Pass |
| VHT20 | MCS0 | 4 | 36 | 5180 | 21.01 | 20.62 | 21.01 | 20.53 | 26.82 | 30.00 | 2.90 | Pass |
| VHT20 | MCS0 | 4 | 44 | 5220 | 21.21 | 20.83 | 21.31 | 21.05 | 27.12 | 30.00 | 2.90 | Pass |
| VHT20 | MCS0 | 4 | 48 | 5240 | 21.37 | 20.62 | 21.26 | 21.10 | 27.12 | 30.00 | 2.90 | Pass |
| VHT40 | MCS0 | 4 | 38 | 5190 | 17.68 | 17.31 | 17.72 | 17.37 | 23.54 | 30.00 | 2.90 | Pass |
| VHT40 | MCS0 | 4 | 46 | 5230 | 21.50 | 20.90 | 21.37 | 21.07 | 27.24 | 30.00 | 2.90 | Pass |
| VHT80 | MCS0 | 4 | 42 | 5210 | 16.41 | 15.92 | 16.40 | 16.14 | 22.24 | 30.00 | 2.90 | Pass |
| VHT80+80 | MCS0 | 4 | 42 | 5210 | 17.33 | - | 17.41 | - | 20.38 | 30.00 | 2.90 | Pass |
| | | | 58 | 5290 | - | 17.44 | - | 17.33 | 20.40 | 23.98 | 2.90 | Pass |

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =$G_{MAX}$ + Array Gain = 2.9 dBi + 0 dB = 2.9 dBi
Array Gain = 0 dBi for Nant <= 4 in CDD mode.

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

| FCC UNII-1 MIMO 4Tx Mode Ant A + D + B + C | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | $N_{TX}$ | CH. | Freq. (MHz) | Average PSD with Duty Factor (dBm/MHz) | Average PSD Limit (dBm/MHz) | DG (dBi) (see note.1) | Pass /Fail |
| | | | | | Ant A + D + B + C | Ant A + D + B + C | Ant A + D + B + C | |
| 11a | 6Mbps | 4 | 36 | 5180 | 15.08 | 17 | 5.91 | Pass |
| 11a | 6Mbps | 4 | 44 | 5220 | 16.03 | 17 | 5.91 | Pass |
| 11a | 6Mbps | 4 | 48 | 5240 | 16.02 | 17 | 5.91 | Pass |

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =$G_{MAX}$ + Array Gain = 2.9dBi + 3.01 dB= 5.91dB
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

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

| UNII-2a MIMO 4Tx Mode Ant A + D + B + C | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | 26 dB Bandwidth (MHz) | | | | FCC 26dB Bandwidth Power Limit (dBm) |
| | | | | | Ant A | Ant D | Ant B | Ant C | Ant A + D + B + C |
| 11a | 6Mbps | 4 | 52 | 5260 | 20.55 | 20.70 | 20.60 | 20.55 | 23.98 |
| 11a | 6Mbps | 4 | 60 | 5300 | 20.60 | 20.70 | 20.60 | 20.45 | 23.98 |
| 11a | 6Mbps | 4 | 64 | 5320 | 20.55 | 20.60 | 20.70 | 20.45 | 23.98 |

| UNII-2a MIMO 4Tx Mode Ant A + D + B + C | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | 99% Bandwidth (MHz) | | | | IC 99% Bandwidth Power Limit (dBm) | IC 99% Bandwidth EIRP Limit (dBm) | | |
| | | | | | Ant A | Ant D | Ant B | Ant C | Ant A + D + B + C | Ant A | Ant D | Ant B | Ant C |
| 11a | 6Mbps | 4 | 52 | 5260 | 16.43 | 16.48 | 16.43 | 16.43 | 23.16 | 29.16 | | | |
| 11a | 6Mbps | 4 | 60 | 5300 | 16.48 | 16.48 | 16.43 | 16.43 | 23.16 | 29.16 | | | |
| 11a | 6Mbps | 4 | 64 | 5320 | 16.48 | 16.48 | 16.48 | 16.43 | 23.16 | 29.16 | | | |

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

| FCC UNII-2a MIMO 4Tx Mode Ant A + D + B + C | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTx | CH. | Freq. (MHz) | Average Conducted Power (dBm) | | | | | FCC Power Limit (dBm) | DG (dBi) | Pass /Fail |
| | | | | | Ant A | Ant D | Ant B | Ant C | SUM | Ant A + D + B + C | Ant A + D + B + C | |
| 11a | 6Mbps | 4 | 52 | 5260 | 16.64 | 15.72 | 16.46 | 15.94 | 22.23 | 23.98 | 2.90 | Pass |
| 11a | 6Mbps | 4 | 60 | 5300 | 16.50 | 16.20 | 16.41 | 15.82 | 22.26 | 23.98 | 2.90 | Pass |
| 11a | 6Mbps | 4 | 64 | 5320 | 16.46 | 15.80 | 16.53 | 15.88 | 22.20 | 23.98 | 2.90 | Pass |
| HT20 | MCS0 | 4 | 52 | 5260 | 17.29 | 16.37 | 17.05 | 16.63 | 22.87 | 23.98 | 2.90 | Pass |
| HT20 | MCS0 | 4 | 60 | 5300 | 16.91 | 16.36 | 16.81 | 16.55 | 22.68 | 23.98 | 2.90 | Pass |
| HT20 | MCS0 | 4 | 64 | 5320 | 16.86 | 16.39 | 16.95 | 16.38 | 22.67 | 23.98 | 2.90 | Pass |
| HT40 | MCS0 | 4 | 54 | 5270 | 18.12 | 16.99 | 17.69 | 17.13 | 23.53 | 23.98 | 2.90 | Pass |
| HT40 | MCS0 | 4 | 62 | 5310 | 16.57 | 15.77 | 16.40 | 15.99 | 22.21 | 23.98 | 2.90 | Pass |
| VHT20 | MCS0 | 4 | 52 | 5260 | 17.29 | 16.25 | 16.81 | 16.39 | 22.72 | 23.98 | 2.90 | Pass |
| VHT20 | MCS0 | 4 | 60 | 5300 | 17.09 | 16.35 | 16.79 | 16.05 | 22.61 | 23.98 | 2.90 | Pass |
| VHT20 | MCS0 | 4 | 64 | 5320 | 17.07 | 16.39 | 16.88 | 16.22 | 22.67 | 23.98 | 2.90 | Pass |
| VHT40 | MCS0 | 4 | 54 | 5270 | 18.11 | 17.00 | 17.69 | 17.12 | 23.52 | 23.98 | 2.90 | Pass |
| VHT40 | MCS0 | 4 | 62 | 5310 | 16.57 | 15.79 | 16.41 | 15.85 | 22.19 | 23.98 | 2.90 | Pass |
| VHT80 | MCS0 | 4 | 58 | 5290 | 15.69 | 14.91 | 15.44 | 14.77 | 21.24 | 23.98 | 2.90 | Pass |

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =$G_{MAX}$ + Array Gain = 2.9 dBi + 0 dB = 2.9 dBi
Array Gain = 0 dBi for Nant <= 4 in CDD mode.

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

| UNII-2a MIMO 4Tx Mode Ant A + D + B + C | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | $N_{TX}$ | CH. | Freq. (MHz) | Average PSD with Duty Factor (dBm/MHz) | PSD Limit (dBm/ MHz) | DG (dBi) (see note.1) | Pass /Fail |
| | | | | | Ant A + D + B + C | Ant A + D + B + C | Ant A + D + B + C | |
| 11a | 6Mbps | 4 | 52 | 5260 | 10.59 | 11.00 | 5.91 | Pass |
| 11a | 6Mbps | 4 | 60 | 5300 | 10.66 | 11.00 | 5.91 | Pass |
| 11a | 6Mbps | 4 | 64 | 5320 | 10.66 | 11.00 | 5.91 | Pass |

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =$G_{MAX}$ + Array Gain = 2.9dBi + 3.01 dB= 5.91dB
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

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

| UNII-1 MIMO 4Tx Mode Ant A + D + B + C | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | RU Config. | 26 dB Bandwidth (MHz) | | | | 99% Bandwidth (MHz) | | | | IC 99% Bandwidth EIRP Limit (dBm) |
| | | | | | | Ant A | Ant D | Ant B | Ant C | Ant A | Ant D | Ant B | Ant C | Ant A + D + B + C |
| HE20 | MCS0 | 4 | 36 | 5180 | Full | 21.60 | 21.60 | 22.30 | 21.60 | 18.93 | 18.93 | 18.88 | 18.88 | 22.76 |
| HE20 | MCS0 | 4 | 44 | 5220 | Full | 21.90 | 21.50 | 21.80 | 21.70 | 18.98 | 18.93 | 18.88 | 18.93 | 22.76 |
| HE20 | MCS0 | 4 | 48 | 5240 | Full | 21.90 | 21.85 | 21.25 | 21.95 | 18.93 | 18.93 | 18.88 | 18.88 | 22.76 |
| HE40 | MCS0 | 4 | 38 | 5190 | Full | 40.95 | 41.22 | 40.86 | 40.59 | 37.86 | 37.86 | 37.86 | 37.76 | 23.01 |
| HE40 | MCS0 | 4 | 46 | 5230 | Full | 40.32 | 40.77 | 40.77 | 40.41 | 37.96 | 37.86 | 37.96 | 37.86 | 23.01 |
| HE80 | MCS0 | 4 | 42 | 5210 | Full | 83.20 | 82.24 | 82.40 | 82.56 | 77.08 | 77.08 | 76.96 | 76.96 | 23.01 |
| HE80+80 | MCS0 | 4 | 42 | 5210 | Full | 82.08 | - | 81.92 | - | 76.72 | - | 76.72 | - | 23.01 |
| | | | 58 | 5290 | | - | 81.76 | - | 82.08 | - | 76.36 | - | 76.60 | 30.00 |

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

| FCC UNII-1 MIMO 4Tx Mode Ant A + D + B + C | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTx | CH. | Freq. (MHz) | RU Config. | Average Conducted Power (dBm) | | | | | FCC Power Limit (dBm) | DG (dBi) | Pass /Fail |
| | | | | | | Ant A | Ant D | Ant B | Ant C | SUM | Ant A + D + B + C | Ant A + D + B + C | |
| HE20 | MCS0 | 4 | 36 | 5180 | Full | 21.10 | 20.67 | 21.20 | 20.73 | 26.95 | 30.00 | 2.90 | Pass |
| HE20 | MCS0 | 4 | 44 | 5220 | Full | 21.40 | 21.06 | 21.56 | 21.44 | 27.39 | 30.00 | 2.90 | Pass |
| HE20 | MCS0 | 4 | 48 | 5240 | Full | 21.53 | 20.83 | 21.45 | 21.21 | 27.28 | 30.00 | 2.90 | Pass |
| HE40 | MCS0 | 4 | 38 | 5190 | Full | 17.70 | 17.33 | 17.74 | 17.40 | 23.57 | 30.00 | 2.90 | Pass |
| HE40 | MCS0 | 4 | 46 | 5230 | Full | 21.52 | 20.92 | 21.40 | 21.09 | 27.26 | 30.00 | 2.90 | Pass |
| HE80 | MCS0 | 4 | 42 | 5210 | Full | 16.46 | 15.97 | 16.43 | 16.24 | 22.30 | 30.00 | 2.90 | Pass |
| HE80+8 | MCS0 | 4 | 42 | 5210 | Full | 17.30 | - | 17.48 | - | 20.40 | 30.00 | 2.90 | Pass |
| | | | 58 | 5290 | | - | 17.41 | - | 17.38 | 20.41 | 23.98 | 2.90 | Pass |

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =$G_{MAX}$ + Array Gain = 2.9 dBi + 0 dB = 2.9 dBi
Array Gain = 0 dBi for Nant <= 4 in CDD mode.

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

| FCC UNII-1 MIMO 4Tx Mode Ant A + D + B + C | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | $N_{TX}$ | CH. | Freq. (MHz) | RU Config. | Average PSD with Duty Factor (dBm/MHz) | Average PSD Limit (dBm/MHz) | DG (dBi) (see note.1) | Pass /Fail |
| | | | | | | Ant A + D + B + C | Ant A + D + B + C | Ant A + D + B + C | |
| HE20 | MCS0 | 4 | 36 | 5180 | Full | 14.93 | 17.00 | 5.91 | Pass |
| HE20 | MCS0 | 4 | 44 | 5220 | Full | 15.28 | 17.00 | 5.91 | Pass |
| HE20 | MCS0 | 4 | 48 | 5240 | Full | 15.16 | 17.00 | 5.91 | Pass |
| HE40 | MCS0 | 4 | 38 | 5190 | Full | 8.53 | 17.00 | 5.91 | Pass |
| HE40 | MCS0 | 4 | 46 | 5230 | Full | 12.28 | 17.00 | 5.91 | Pass |
| HE80 | MCS0 | 4 | 42 | 5210 | Full | 4.59 | 17.00 | 5.91 | Pass |
| HE80+80 | MCS0 | 4 | 42 | 5210 | Full | 3.24 | 17.00 | 5.91 | Pass |
| | | | 58 | 5290 | | 3.15 | 11.00 | 5.91 | Pass |

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =$G_{MAX}$ + Array Gain = 2.9dBi + 3.01 dB= 5.91dB
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

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

| UNII-2a MIMO 4Tx Mode Ant A + D + B + C | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | RU Config. | 26 dB Bandwidth (MHz) | | | | FCC 26dB Bandwidth Power Limit (dBm) |
| | | | | | | Ant A | Ant D | Ant B | Ant C | Ant A + D + B + C |
| HE20 | MCS0 | 4 | 52 | 5260 | Full | 21.85 | 21.75 | 22.15 | 21.85 | 23.98 |
| HE20 | MCS0 | 4 | 60 | 5300 | Full | 21.90 | 21.65 | 21.45 | 21.55 | 23.98 |
| HE20 | MCS0 | 4 | 64 | 5320 | Full | 21.80 | 21.45 | 21.80 | 21.95 | 23.98 |
| HE40 | MCS0 | 4 | 54 | 5270 | Full | 40.86 | 40.68 | 40.59 | 41.22 | 23.98 |
| HE40 | MCS0 | 4 | 62 | 5310 | Full | 40.50 | 40.68 | 40.59 | 40.68 | 23.98 |
| HE80 | MCS0 | 4 | 58 | 5290 | Full | 82.56 | 81.92 | 82.08 | 81.76 | 23.98 |

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

| FCC UNII-2a MIMO 4Tx Mode Ant A + D + B + C | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | $N_{TX}$ | CH. | Freq. (MHz) | RU Config. | Average Conducted Power (dBm) | | | | | FCC Power Limit (dBm) | DG (dBi) | Pass /Fail |
| | | | | | | Ant A | Ant D | Ant B | Ant C | SUM | Ant A + D + B + C | Ant A + D + B + C | |
| HE20 | MCS0 | 4 | 52 | 5260 | Full | 17.43 | 16.68 | 17.08 | 16.65 | 22.99 | 23.98 | 2.90 | Pass |
| HE20 | MCS0 | 4 | 60 | 5300 | Full | 17.12 | 16.42 | 17.11 | 16.67 | 22.86 | 23.98 | 2.90 | Pass |
| HE20 | MCS0 | 4 | 64 | 5320 | Full | 17.13 | 16.41 | 17.05 | 16.41 | 22.78 | 23.98 | 2.90 | Pass |
| HE40 | MCS0 | 4 | 54 | 5270 | Full | 18.16 | 17.03 | 17.72 | 17.16 | 23.56 | 23.98 | 2.90 | Pass |
| HE40 | MCS0 | 4 | 62 | 5310 | Full | 16.59 | 15.81 | 16.44 | 16.01 | 22.24 | 23.98 | 2.90 | Pass |
| HE80 | MCS0 | 4 | 58 | 5290 | Full | 15.71 | 14.96 | 15.46 | 14.82 | 21.27 | 23.98 | 2.90 | Pass |

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =$G_{MAX}$ + Array Gain = 2.9 dBi + 0 dB = 2.9 dBi
Array Gain = 0 dBi for Nant <= 4 in CDD mode.

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

| UNII-2a MIMO 4Tx Mode Ant A + D + B + C | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | RU Config. | Average PSD with Duty Factor (dBm/MHz) | PSD Limit (dBm/ MHz) | DG (dBi) (see note.1) | Pass /Fail |
| | | | | | | Ant A + D + B + C | Ant A + D + B + C | Ant A + D + B + C | |
| HE20 | MCS0 | 4 | 52 | 5260 | Full | 10.81 | 11.00 | 5.91 | Pass |
| HE20 | MCS0 | 4 | 60 | 5300 | Full | 10.69 | 11.00 | 5.91 | Pass |
| HE20 | MCS0 | 4 | 64 | 5320 | Full | 10.60 | 11.00 | 5.91 | Pass |
| HE40 | MCS0 | 4 | 54 | 5270 | Full | 8.44 | 11.00 | 5.91 | Pass |
| HE40 | MCS0 | 4 | 62 | 5310 | Full | 7.16 | 11.00 | 5.91 | Pass |
| HE80 | MCS0 | 4 | 58 | 5290 | Full | 3.69 | 11.00 | 5.91 | Pass |

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =$G_{MAX}$ + Array Gain = 2.9dBi + 3.01 dB= 5.91dB
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

**<TXBF>**

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

| FCC UNII-1 Beamforming Mode Ant A + D + B + C | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTx | CH. | Freq. (MHz) | Average Conducted Power (dBm) | | | | | FCC Power Limit (dBm) | DG (dBi) | Pass /Fail |
| | | | | | Ant A | Ant D | Ant B | Ant C | SUM | Ant A + D + B + C | Ant A + D + B + C | |
| 11a | 6Mbps | 4 | 36 | 5180 | 20.74 | 20.34 | 20.86 | 20.38 | 26.61 | 30.00 | 5.91 | Pass |
| 11a | 6Mbps | 4 | 44 | 5220 | 21.68 | 21.37 | 21.80 | 21.44 | 27.60 | 30.00 | 5.91 | Pass |
| 11a | 6Mbps | 4 | 48 | 5240 | 21.89 | 21.14 | 21.74 | 21.35 | 27.56 | 30.00 | 5.91 | Pass |
| HT20 | MCS0 | 4 | 36 | 5180 | 21.07 | 20.65 | 21.11 | 20.68 | 26.90 | 30.00 | 5.91 | Pass |
| HT20 | MCS0 | 4 | 44 | 5220 | 21.28 | 20.89 | 21.39 | 21.19 | 27.21 | 30.00 | 5.91 | Pass |
| HT20 | MCS0 | 4 | 48 | 5240 | 21.49 | 20.69 | 21.38 | 21.03 | 27.18 | 30.00 | 5.91 | Pass |
| HT40 | MCS0 | 4 | 38 | 5190 | 17.68 | 17.30 | 17.71 | 17.37 | 23.54 | 30.00 | 5.91 | Pass |
| HT40 | MCS0 | 4 | 46 | 5230 | 21.49 | 20.88 | 21.37 | 21.04 | 27.22 | 30.00 | 5.91 | Pass |
| VHT20 | MCS0 | 4 | 36 | 5180 | 21.01 | 20.62 | 21.01 | 20.53 | 26.82 | 30.00 | 5.91 | Pass |
| VHT20 | MCS0 | 4 | 44 | 5220 | 21.21 | 20.83 | 21.31 | 21.05 | 27.12 | 30.00 | 5.91 | Pass |
| VHT20 | MCS0 | 4 | 48 | 5240 | 21.37 | 20.62 | 21.26 | 21.10 | 27.12 | 30.00 | 5.91 | Pass |
| VHT40 | MCS0 | 4 | 38 | 5190 | 17.68 | 17.31 | 17.72 | 17.37 | 23.54 | 30.00 | 5.91 | Pass |
| VHT40 | MCS0 | 4 | 46 | 5230 | 21.50 | 20.90 | 21.37 | 21.07 | 27.24 | 30.00 | 5.91 | Pass |
| VHT80 | MCS0 | 4 | 42 | 5210 | 16.41 | 15.92 | 16.40 | 16.14 | 22.24 | 30.00 | 5.91 | Pass |

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =$G_{MAX}$ + Array Gain = 2.9 dBi + 3.01 dB = 5.91 dBi
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

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

| FCC UNII-2a Beamforming Mode Ant A + D + B + C | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | $N_{TX}$ | CH. | Freq. (MHz) | Average Conducted Power (dBm) | | | | | FCC Power Limit (dBm) | DG (dBi) | Pass /Fail |
| | | | | | Ant A | Ant D | Ant B | Ant C | SUM | Ant A + D + B + C | Ant A + D + B + C | |
| 11a | 6Mbps | 4 | 52 | 5260 | 16.64 | 15.72 | 16.46 | 15.94 | 22.23 | 23.98 | 5.91 | Pass |
| 11a | 6Mbps | 4 | 60 | 5300 | 16.50 | 16.20 | 16.41 | 15.82 | 22.26 | 23.98 | 5.91 | Pass |
| 11a | 6Mbps | 4 | 64 | 5320 | 16.46 | 15.80 | 16.53 | 15.88 | 22.20 | 23.98 | 5.91 | Pass |
| HT20 | MCS0 | 4 | 52 | 5260 | 17.29 | 16.37 | 17.05 | 16.63 | 22.87 | 23.98 | 5.91 | Pass |
| HT20 | MCS0 | 4 | 60 | 5300 | 16.91 | 16.36 | 16.81 | 16.55 | 22.68 | 23.98 | 5.91 | Pass |
| HT20 | MCS0 | 4 | 64 | 5320 | 16.86 | 16.39 | 16.95 | 16.38 | 22.67 | 23.98 | 5.91 | Pass |
| HT40 | MCS0 | 4 | 54 | 5270 | 18.12 | 16.99 | 17.69 | 17.13 | 23.53 | 23.98 | 5.91 | Pass |
| HT40 | MCS0 | 4 | 62 | 5310 | 16.57 | 15.77 | 16.40 | 15.99 | 22.21 | 23.98 | 5.91 | Pass |
| VHT20 | MCS0 | 4 | 52 | 5260 | 17.29 | 16.25 | 16.81 | 16.39 | 22.72 | 23.98 | 5.91 | Pass |
| VHT20 | MCS0 | 4 | 60 | 5300 | 17.09 | 16.35 | 16.79 | 16.05 | 22.61 | 23.98 | 5.91 | Pass |
| VHT20 | MCS0 | 4 | 64 | 5320 | 17.07 | 16.39 | 16.88 | 16.22 | 22.67 | 23.98 | 5.91 | Pass |
| VHT40 | MCS0 | 4 | 54 | 5270 | 18.11 | 17.00 | 17.69 | 17.12 | 23.52 | 23.98 | 5.91 | Pass |
| VHT40 | MCS0 | 4 | 62 | 5310 | 16.57 | 15.79 | 16.41 | 15.85 | 22.19 | 23.98 | 5.91 | Pass |
| VHT80 | MCS0 | 4 | 58 | 5290 | 15.69 | 14.91 | 15.44 | 14.77 | 21.24 | 23.98 | 5.91 | Pass |

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =$G_{MAX}$ + Array Gain = 2.9 dBi + 3.01 dB = 5.91 dBi
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

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

| FCC UNII-1 Beamforming Mode Ant A + D + B + C | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | $N_{TX}$ | CH. | Freq. (MHz) | RU Config. | Average Conducted Power (dBm) | | | | | FCC Power Limit (dBm) | DG (dBi) | Pass /Fail |
| | | | | | | Ant A | Ant D | Ant B | Ant C | SUM | Ant A + D + B + C | Ant A + D + B + C | |
| HE20 | MCS0 | 4 | 36 | 5180 | Full | 21.10 | 20.67 | 21.20 | 20.73 | 26.95 | 30.00 | 5.91 | Pass |
| HE20 | MCS0 | 4 | 44 | 5220 | Full | 21.40 | 21.06 | 21.56 | 21.44 | 27.39 | 30.00 | 5.91 | Pass |
| HE20 | MCS0 | 4 | 48 | 5240 | Full | 21.53 | 20.83 | 21.45 | 21.21 | 27.28 | 30.00 | 5.91 | Pass |
| HE40 | MCS0 | 4 | 38 | 5190 | Full | 17.70 | 17.33 | 17.74 | 17.40 | 23.57 | 30.00 | 5.91 | Pass |
| HE40 | MCS0 | 4 | 46 | 5230 | Full | 21.52 | 20.92 | 21.40 | 21.09 | 27.26 | 30.00 | 5.91 | Pass |
| HE80 | MCS0 | 4 | 42 | 5210 | Full | 16.46 | 15.97 | 16.43 | 16.24 | 22.30 | 30.00 | 5.91 | Pass |

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =$G_{MAX}$ + Array Gain = 2.9dBi + 3.01 dB = 5.91dBi
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

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

| FCC UNII-2a Beamforming Mode Ant A + D + B + C | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | $N_{TX}$ | CH. | Freq. (MHz) | RU Config. | Average Conducted Power (dBm) | | | | | FCC Power Limit (dBm) | DG (dBi) | Pass /Fail |
| | | | | | | Ant A | Ant D | Ant B | Ant C | SUM | Ant A + D + B + C | Ant A + D + B + C | |
| HE20 | MCS0 | 4 | 52 | 5260 | Full | 17.43 | 16.68 | 17.08 | 16.65 | 22.99 | 23.98 | 5.91 | Pass |
| HE20 | MCS0 | 4 | 60 | 5300 | Full | 17.12 | 16.42 | 17.11 | 16.67 | 22.86 | 23.98 | 5.91 | Pass |
| HE20 | MCS0 | 4 | 64 | 5320 | Full | 17.13 | 16.41 | 17.05 | 16.41 | 22.78 | 23.98 | 5.91 | Pass |
| HE40 | MCS0 | 4 | 54 | 5270 | Full | 18.16 | 17.03 | 17.72 | 17.16 | 23.56 | 23.98 | 5.91 | Pass |
| HE40 | MCS0 | 4 | 62 | 5310 | Full | 16.59 | 15.81 | 16.44 | 16.01 | 22.24 | 23.98 | 5.91 | Pass |
| HE80 | MCS0 | 4 | 58 | 5290 | Full | 15.71 | 14.96 | 15.46 | 14.82 | 21.27 | 23.98 | 5.91 | Pass |

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =$G_{MAX}$ + Array Gain = 2.9dBi + 3.01 dB = 5.91dBi
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and $N_{SS}$=1

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

| FCC UNII-1 MIMO 4Tx Mode Ant A + D + B + C | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | 26 dB Bandwidth (MHz) | | | | 99% Bandwidth (MHz) | | | | IC 99% Bandwidth EIRP Limit (dBm) |
| | | | | | Ant A | Ant D | Ant B | Ant C | Ant A | Ant D | Ant B | Ant C | Ant A + D + B + C |
| 11a | 6Mbps | 4 | 36 | 5180 | 20.45 | 20.70 | 20.60 | 20.50 | 16.43 | 16.48 | 16.43 | 16.43 | 22.16 |
| 11a | 6Mbps | 4 | 44 | 5220 | 22.15 | 22.30 | 22.65 | 21.60 | 16.63 | 16.63 | 16.68 | 16.53 | 22.18 |
| 11a | 6Mbps | 4 | 48 | 5240 | 21.90 | 21.25 | 21.70 | 21.70 | 16.63 | 16.53 | 16.53 | 16.48 | 22.17 |

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

| FCC UNII-1 MIMO 4Tx Mode Ant A + D + B + C | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | $N_{TX}$ | CH. | Freq. (MHz) | Average Conducted Power (dBm) | | | | | FCC Power Limit (dBm) | DG (dBi) | Pass /Fail |
| | | | | | Ant A | Ant D | Ant B | Ant C | SUM | Ant A + D + B + C | Ant A + D + B + C | |
| 11a | 6Mbps | 4 | 36 | 5180 | 18.64 | 18.20 | 18.61 | 18.36 | 24.48 | 30.00 | 2.90 | Pass |
| 11a | 6Mbps | 4 | 44 | 5220 | 21.47 | 21.29 | 21.76 | 21.29 | 27.48 | 30.00 | 2.90 | Pass |
| 11a | 6Mbps | 4 | 48 | 5240 | 21.50 | 21.10 | 21.63 | 21.17 | 27.38 | 30.00 | 2.90 | Pass |
| HT20 | MCS0 | 4 | 36 | 5180 | 17.87 | 17.41 | 17.99 | 17.58 | 23.74 | 30.00 | 2.90 | Pass |
| HT20 | MCS0 | 4 | 44 | 5220 | 21.10 | 20.90 | 21.50 | 21.10 | 27.18 | 30.00 | 2.90 | Pass |
| HT20 | MCS0 | 4 | 48 | 5240 | 21.27 | 20.81 | 21.34 | 20.64 | 27.05 | 30.00 | 2.90 | Pass |
| HT40 | MCS0 | 4 | 38 | 5190 | 17.40 | 17.05 | 17.40 | 17.05 | 23.25 | 30.00 | 2.90 | Pass |
| HT40 | MCS0 | 4 | 46 | 5230 | 21.03 | 20.45 | 20.95 | 20.45 | 26.75 | 30.00 | 2.90 | Pass |
| VHT20 | MCS0 | 4 | 36 | 5180 | 17.88 | 17.65 | 17.96 | 17.39 | 23.75 | 30.00 | 2.90 | Pass |
| VHT20 | MCS0 | 4 | 44 | 5220 | 21.22 | 20.96 | 21.39 | 20.91 | 27.15 | 30.00 | 2.90 | Pass |
| VHT20 | MCS0 | 4 | 48 | 5240 | 21.36 | 20.79 | 21.24 | 20.79 | 27.07 | 30.00 | 2.90 | Pass |
| VHT40 | MCS0 | 4 | 38 | 5190 | 17.44 | 16.98 | 17.46 | 17.03 | 23.25 | 30.00 | 2.90 | Pass |
| VHT40 | MCS0 | 4 | 46 | 5230 | 20.93 | 20.50 | 20.99 | 20.49 | 26.75 | 30.00 | 2.90 | Pass |
| VHT80 | MCS0 | 4 | 42 | 5210 | 16.86 | 16.47 | 16.94 | 16.52 | 22.72 | 30.00 | 2.90 | Pass |
| VHT80+80 | MCS0 | 4 | 42 | 5210 | 16.56 | - | 16.62 | - | 19.60 | 30.00 | 2.90 | Pass |
| | | | 58 | 5290 | - | 16.53 | - | 16.50 | 19.53 | 23.98 | 2.90 | Pass |

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =GMAX + Array Gain = 2.9 dBi + 0 dB = 2.9 dBi
Array Gain = 0 dBi for Nant <= 4 in CDD mode.

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

| FCC UNII-1 MIMO 4Tx Mode Ant A + D + B + C | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTx | CH. | Freq. (MHz) | Average PSD with Duty Factor (dBm/MHz) | Average PSD Limit (dBm/MHz) | DG (dBi) (see note.1) | Pass /Fail |
| | | | | | Ant A + D + B + C | Ant A + D + B + C | Ant A + D + B + C | |
| 11a | 6Mbps | 4 | 36 | 5180 | 12.94 | 17 | 5.91 | Pass |
| 11a | 6Mbps | 4 | 44 | 5220 | 16.08 | 17 | 5.91 | Pass |
| 11a | 6Mbps | 4 | 48 | 5240 | 15.90 | 17 | 5.91 | Pass |

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =GMAX + Array Gain = 2.9dBi + 3.01 dB= 5.91dBi
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

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

| FCC UNII-2a MIMO 4Tx Mode Ant A + D + B + C | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | 26 dB Bandwidth (MHz) | | | | FCC 26dB Bandwidth Power Limit (dBm) |
| | | | | | Ant A | Ant D | Ant B | Ant C | Ant A + D + B + C |
| 11a | 6Mbps | 4 | 52 | 5260 | 20.50 | 20.70 | 20.55 | 20.40 | 23.98 |
| 11a | 6Mbps | 4 | 60 | 5300 | 20.70 | 20.60 | 20.65 | 20.85 | 23.98 |
| 11a | 6Mbps | 4 | 64 | 5320 | 20.60 | 20.75 | 20.50 | 20.50 | 23.98 |

| FCC UNII-2a MIMO 4Tx Mode Ant A + D + B + C | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | 99% Bandwidth (MHz) | | | | IC 99% Bandwidth Power Limit (dBm) | IC 99% Bandwidth EIRP Limit (dBm) | | |
| | | | | | Ant A | Ant D | Ant B | Ant C | Ant A + D + B + C | Ant A | Ant D | Ant B | Ant C |
| 11a | 6Mbps | 4 | 52 | 5260 | 16.43 | 16.48 | 16.43 | 16.43 | 23.16 | 29.16 | | | |
| 11a | 6Mbps | 4 | 60 | 5300 | 16.48 | 16.43 | 16.48 | 16.48 | 23.16 | 29.16 | | | |
| 11a | 6Mbps | 4 | 64 | 5320 | 16.48 | 16.43 | 16.43 | 16.48 | 23.16 | 29.16 | | | |

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

| FCC UNII-2a MIMO 4Tx Mode Ant A + D + B + C | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTx | CH. | Freq. (MHz) | Average Conducted Power (dBm) | | | | | FCC Power Limit (dBm) | DG (dBi) | Pass /Fail |
| | | | | | Ant A | Ant D | Ant B | Ant C | SUM | Ant A + D + B + C | Ant A + D + B + C | |
| 11a | 6Mbps | 4 | 52 | 5260 | 16.74 | 16.17 | 16.86 | 16.32 | 22.55 | 23.98 | 2.90 | Pass |
| 11a | 6Mbps | 4 | 60 | 5300 | 16.61 | 16.24 | 16.63 | 15.99 | 22.40 | 23.98 | 2.90 | Pass |
| 11a | 6Mbps | 4 | 64 | 5320 | 16.29 | 15.72 | 16.50 | 15.89 | 22.13 | 23.98 | 2.90 | Pass |
| HT20 | MCS0 | 4 | 52 | 5260 | 17.48 | 17.02 | 17.44 | 16.65 | 23.18 | 23.98 | 2.90 | Pass |
| HT20 | MCS0 | 4 | 60 | 5300 | 17.30 | 17.00 | 17.30 | 16.70 | 23.10 | 23.98 | 2.90 | Pass |
| HT20 | MCS0 | 4 | 64 | 5320 | 17.53 | 16.78 | 17.43 | 16.85 | 23.18 | 23.98 | 2.90 | Pass |
| HT40 | MCS0 | 4 | 54 | 5270 | 18.10 | 17.20 | 17.90 | 17.50 | 23.71 | 23.98 | 2.90 | Pass |
| HT40 | MCS0 | 4 | 62 | 5310 | 15.58 | 14.88 | 15.58 | 15.20 | 21.34 | 23.98 | 2.90 | Pass |
| VHT20 | MCS0 | 4 | 52 | 5260 | 17.40 | 17.00 | 17.56 | 16.86 | 23.23 | 23.98 | 2.90 | Pass |
| VHT20 | MCS0 | 4 | 60 | 5300 | 17.57 | 16.75 | 17.42 | 16.55 | 23.11 | 23.98 | 2.90 | Pass |
| VHT20 | MCS0 | 4 | 64 | 5320 | 17.46 | 16.96 | 17.52 | 16.96 | 23.25 | 23.98 | 2.90 | Pass |
| VHT40 | MCS0 | 4 | 54 | 5270 | 18.01 | 17.33 | 17.95 | 17.51 | 23.73 | 23.98 | 2.90 | Pass |
| VHT40 | MCS0 | 4 | 62 | 5310 | 15.63 | 14.96 | 15.57 | 15.26 | 21.38 | 23.98 | 2.90 | Pass |
| VHT80 | MCS0 | 4 | 58 | 5290 | 15.87 | 15.39 | 15.81 | 15.18 | 21.59 | 23.98 | 2.90 | Pass |

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =GMAX + Array Gain = 2.9 dBi + 0 dB = 2.9 dBi
Array Gain = 0 dBi for Nant <= 4 in CDD mode.

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

| FCC UNII-2a MIMO 4Tx Mode Ant A + D + B + C | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Average PSD with Duty Factor (dBm/MHz) | PSD Limit (dBm/ MHz) | DG (dBi) (see note.1) | Pass /Fail |
| | | | | | Ant A + D + B + C | Ant A + D + B + C | Ant A + D + B + C | |
| 11a | 6Mbps | 4 | 52 | 5260 | 10.94 | 11.00 | 5.91 | Pass |
| 11a | 6Mbps | 4 | 60 | 5300 | 10.84 | 11.00 | 5.91 | Pass |
| 11a | 6Mbps | 4 | 64 | 5320 | 10.68 | 11.00 | 5.91 | Pass |

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =GMAX + Array Gain = 2.9dBi + 3.01 dB= 5.91dBi
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

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

| FCC UNII-2c MIMO 4Tx Mode Ant A + D + B + C | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | 26 dB Bandwidth (MHz) | | | | FCC 26dB Bandwidth Power Limit (dBm) |
| | | | | | Ant A | Ant D | Ant B | Ant C | Ant A + D + B + C |
| 11a | 6Mbps | 4 | 100 | 5500 | 20.60 | 20.55 | 20.60 | 20.70 | 23.98 |
| 11a | 6Mbps | 4 | 116 | 5580 | 20.50 | 20.70 | 20.60 | 20.85 | 23.98 |
| 11a | 6Mbps | 4 | 140 | 5700 | 20.55 | 20.70 | 20.55 | 20.35 | 23.98 |

| FCC UNII-2c Straddle Channel MIMO 4Tx Mode Ant A + D + B + C | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | 26 dB Bandwidth (MHz) | | | | FCC 26dB Bandwidth Power Limit (dBm) | 6 dB Bandwidth for Straddle Channel (MHz) | | | |
| | | | | | Ant A | Ant D | Ant B | Ant C | Ant A + D + B + C | Ant A | Ant D | Ant B | Ant C |
| 11a | 6Mbps | 4 | 144 | 5720 | 15.40 | 15.25 | 15.30 | 15.25 | 22.83 | 3.15 | 3.15 | 3.15 | 3.15 |
| FCC UNII-2c MIMO 4Tx Mode Ant A + D + B + C | | | | | | | | | | | | |
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | 99% Bandwidth (MHz) | | | | IC 99% Bandwidth Power Limit (dBm) | IC 99% Bandwidth EIRP Limit (dBm) | | | |
| | | | | | Ant A | Ant D | Ant B | Ant C | Ant A + D + B + C | Ant A + D + B + C | | | |
| 11a | 6Mbps | 4 | 100 | 5500 | 16.48 | 16.48 | 16.43 | 16.48 | 23.16 | 29.16 | | | |
| 11a | 6Mbps | 4 | 116 | 5580 | 16.43 | 16.43 | 16.43 | 16.53 | 23.16 | 29.16 | | | |
| 11a | 6Mbps | 4 | 140 | 5700 | 16.48 | 16.48 | 16.43 | 16.43 | 23.16 | 29.16 | | | |

| FCC UNII-2c Straddle Channel MIMO 4Tx Mode Ant A + D + B + C | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | 99% Bandwidth (MHz) | | | | IC 99% Bandwidth Power Limit (dBm) | IC 99% Bandwidth EIRP Limit (dBm) |
| | | | | | Ant A | Ant D | Ant B | Ant C | Ant A + D + B + C | Ant A + D + B + C |
| 11a | 6Mbps | 4 | 144 | 5720 | 13.29 | 13.29 | 13.24 | 13.29 | 22.22 | 28.22 |

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

| FCC UNII-2c MIMO 4Tx Mode Ant A + D + B + C | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTx | CH. | Freq. (MHz) | Average Conducted Power (dB) | | | | | FCC Power Limit (dBm) | DG (dBi) | Pass /Fail |
| | | | | | Ant A | Ant D | Ant B | Ant C | SUM | Ant A + D + B + C | Ant A + D + B + C | |
| 11a | 6Mbps | 4 | 100 | 5500 | 16.51 | 16.12 | 16.36 | 15.44 | 22.15 | 23.98 | 2.90 | Pass |
| 11a | 6Mbps | 4 | 116 | 5580 | 16.62 | 16.35 | 16.73 | 15.98 | 22.45 | 23.98 | 2.90 | Pass |
| 11a | 6Mbps | 4 | 140 | 5700 | 16.58 | 16.19 | 16.57 | 15.77 | 22.31 | 23.98 | 2.90 | Pass |
| HT20 | MCS0 | 4 | 100 | 5500 | 17.00 | 16.70 | 17.10 | 16.80 | 22.92 | 23.98 | 2.90 | Pass |
| HT20 | MCS0 | 4 | 116 | 5580 | 17.10 | 16.64 | 17.37 | 16.93 | 23.04 | 23.98 | 2.90 | Pass |
| HT20 | MCS0 | 4 | 140 | 5700 | 17.09 | 16.47 | 16.84 | 16.45 | 22.74 | 23.98 | 2.90 | Pass |
| HT40 | MCS0 | 4 | 102 | 5510 | 17.75 | 17.05 | 17.75 | 17.25 | 23.48 | 23.98 | 2.90 | Pass |
| HT40 | MCS0 | 4 | 110 | 5550 | 17.89 | 17.29 | 18.09 | 17.64 | 23.76 | 23.98 | 2.90 | Pass |
| HT40 | MCS0 | 4 | 134 | 5670 | 17.80 | 17.30 | 18.47 | 17.21 | 23.75 | 23.98 | 2.90 | Pass |
| VHT20 | MCS0 | 4 | 100 | 5500 | 17.26 | 16.73 | 17.05 | 16.45 | 22.90 | 23.98 | 2.90 | Pass |
| VHT20 | MCS0 | 4 | 116 | 5580 | 17.17 | 16.80 | 17.30 | 16.79 | 23.04 | 23.98 | 2.90 | Pass |
| VHT20 | MCS0 | 4 | 140 | 5700 | 17.54 | 16.82 | 17.01 | 16.44 | 22.99 | 23.98 | 2.90 | Pass |
| VHT40 | MCS0 | 4 | 102 | 5510 | 17.83 | 17.03 | 17.77 | 17.21 | 23.49 | 23.98 | 2.90 | Pass |
| VHT40 | MCS0 | 4 | 110 | 5550 | 17.83 | 17.33 | 18.15 | 17.98 | 23.85 | 23.98 | 2.90 | Pass |
| VHT40 | MCS0 | 4 | 134 | 5670 | 17.92 | 17.45 | 18.08 | 17.39 | 23.74 | 23.98 | 2.90 | Pass |
| VHT80 | MCS0 | 4 | 106 | 5530 | 17.47 | 16.77 | 17.52 | 16.91 | 23.20 | 23.98 | 2.90 | Pass |
| VHT80 | MCS0 | 4 | 122 | 5610 | 17.80 | 17.41 | 18.29 | 17.81 | 23.86 | 23.98 | 2.90 | Pass |
| VHT80+80 | MCS0 | 4 | 106+122 | 5530+5610 | 18.18 | 17.17 | 18.16 | 17.36 | 23.76 | 23.98 | 2.90 | Pass |

| FCC UNII-2c Straddle Channel MIMO 4Tx Mode Ant A + D + B + C | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTx | CH. | Freq. (MHz) | Average Conducted Power (dB) | | | | | FCC Power Limit (dBm) | DG (dBi) | Pass /Fail |
| | | | | | Ant A | Ant D | Ant B | Ant C | SUM | Ant A + D + B + C | Ant A + D + B + C | |
| 11a | 6Mbps | 4 | 144 | 5720 | 16.55 | 16.01 | 16.41 | 15.21 | 22.10 | 22.83 | 2.90 | Pass |
| HT20 | MCS0 | 4 | 144 | 5720 | 16.95 | 16.35 | 17.05 | 16.25 | 22.68 | 23.98 | 2.90 | Pass |
| HT40 | MCS0 | 4 | 142 | 5710 | 18.06 | 17.55 | 18.05 | 17.67 | 23.86 | 23.98 | 2.90 | Pass |
| VHT20 | MCS0 | 4 | 144 | 5720 | 16.88 | 16.59 | 16.87 | 16.02 | 22.62 | 23.98 | 2.90 | Pass |
| VHT40 | MCS0 | 4 | 142 | 5710 | 18.06 | 17.60 | 18.12 | 17.76 | 23.91 | 23.98 | 2.90 | Pass |
| VHT80 | MCS0 | 4 | 138 | 5690 | 18.04 | 17.57 | 18.16 | 17.53 | 23.85 | 23.98 | 2.90 | Pass |

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna
Note 2: Directional Gain =GMAX + Array Gain = 2.9 dBi + 0 dB = 2.9 dBi
Array Gain = 0 dBi for Nant <= 4 in CDD mode.

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

| FCC UNII-2c MIMO 4Tx Mode Ant A + D + B + C | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTx | CH. | Freq. (MHz) | Average PSD with Duty Factor (dBm/MHz) | PSD Limit (dBm/ MHz) | DG (dBi) (see note.1) | Pass /Fail |
| | | | | | Ant A + D + B + C | Ant A + D + B + C | Ant A + D + B + C | |
| 11a | 6Mbps | 4 | 100 | 5500 | 10.72 | 11.00 | 5.91 | Pass |
| 11a | 6Mbps | 4 | 116 | 5580 | 10.77 | 11.00 | 5.91 | Pass |
| 11a | 6Mbps | 4 | 140 | 5700 | 10.73 | 11.00 | 5.91 | Pass |

| FCC UNII-2c Straddle Channel MIMO 4Tx Mode Ant A + D + B + C | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTx | CH. | Freq. (MHz) | Average PSD with Duty Factor (dBm/MHz) | PSD Limit (dBm/ MHz) | DG (dBi) | Pass /Fail |
| | | | | | Ant A + D + B + C | Ant A + D + B + C | Ant A + D + B + C | |
| 11a | 6Mbps | 4 | 144 | 5720 | 10.56 | 11.00 | 5.91 | Pass |

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another. Each polarization has 2 antenna

Note 2: Directional Gain =GMAX + Array Gain = 2.9dBi + 3.01 dB= 5.91dBi
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

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

| FCC UNII-1 MIMO 4Tx Mode Ant A + D + B + C | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTx | CH. | Freq. (MHz) | RU Config. | 26 dB Bandwidth (MHz) | | | | 99% Bandwidth (MHz) | | | | IC 99% Bandwidth EIRP Limit (dBm) |
| | | | | | | Ant A | Ant D | Ant B | Ant C | Ant A | Ant D | Ant B | Ant C | Ant A + D + B + C |
| HE20 | MCS0 | 4 | 36 | 5180 | Full | 21.65 | 21.50 | 21.75 | 21.60 | 18.93 | 18.88 | 18.93 | 18.93 | 22.76 |
| HE20 | MCS0 | 4 | 44 | 5220 | Full | 23.40 | 22.75 | 22.85 | 22.55 | 18.98 | 19.03 | 19.03 | 18.98 | 22.78 |
| HE20 | MCS0 | 4 | 48 | 5240 | Full | 22.70 | 22.35 | 22.25 | 22.30 | 18.98 | 18.93 | 18.93 | 18.93 | 22.77 |
| HE40 | MCS0 | 4 | 38 | 5190 | Full | 41.13 | 40.32 | 40.95 | 41.04 | 37.86 | 37.86 | 37.96 | 37.86 | 23.01 |
| HE40 | MCS0 | 4 | 46 | 5230 | Full | 41.04 | 41.13 | 41.40 | 41.31 | 37.96 | 37.96 | 37.96 | 37.96 | 23.01 |
| HE80 | MCS0 | 4 | 42 | 5210 | Full | 82.08 | 82.08 | 82.56 | 82.08 | 77.08 | 76.84 | 76.96 | 76.96 | 23.01 |
| HE80+80 | MCS0 | 4 | 42 | 5210 | Full | 81.76 | - | 81.92 | - | 76.60 | - | 76.60 | - | 23.01 |
| | | | 58 | 5290 | Full | - | 82.08 | - | 82.40 | - | 76.72 | - | 76.48 | 30.00 |

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

| FCC UNII-1 MIMO 4Tx Mode Ant A + D + B + C | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | RU Config. | Average Conducted Power (dBm) | | | | | FCC Power Limit (dBm) | DG (dBi) | Pass /Fail |
| | | | | | | Ant A | Ant D | Ant B | Ant C | SUM | Ant A + D + B + C | Ant A + D + B + C | |
| HE20 | MCS0 | 4 | 36 | 5180 | Full | 17.81 | 17.51 | 18.03 | 17.67 | 23.78 | 30.00 | 2.90 | Pass |
| HE20 | MCS0 | 4 | 44 | 5220 | Full | 21.12 | 20.99 | 21.35 | 21.19 | 27.19 | 30.00 | 2.90 | Pass |
| HE20 | MCS0 | 4 | 48 | 5240 | Full | 21.21 | 20.94 | 21.38 | 20.72 | 27.09 | 30.00 | 2.90 | Pass |
| HE40 | MCS0 | 4 | 38 | 5190 | Full | 17.30 | 17.10 | 17.50 | 17.10 | 23.27 | 30.00 | 2.90 | Pass |
| HE40 | MCS0 | 4 | 46 | 5230 | Full | 20.84 | 20.62 | 21.01 | 20.53 | 26.77 | 30.00 | 2.90 | Pass |
| HE80 | MCS0 | 4 | 42 | 5210 | Full | 16.90 | 16.50 | 16.90 | 16.60 | 22.75 | 30.00 | 2.90 | Pass |
| HE80+80 | MCS0 | 4 | 42 | 5210 | Full | 16.46 | - | 16.79 | - | 19.64 | 30.00 | 2.90 | Pass |
| | | | 58 | 5290 | | - | 16.62 | - | 16.63 | 19.64 | 23.98 | 2.90 | Pass |

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =$G_{MAX}$ + Array Gain = 2.9 dBi + 0 dB = 2.9 dBi
Array Gain = 0 dBi for Nant <= 4 in CDD mode.

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

| FCC UNII-1 MIMO 4Tx Mode Ant A + D + B + C | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | RU Config. | Average PSD with Duty Factor (dBm/MHz) | Average PSD Limit (dBm/MHz) | DG (dBi) (see note.1) | Pass /Fail |
| | | | | | | Ant A + D + B + C | Ant A + D + B + C | Ant A + D + B + C | |
| HE20 | MCS0 | 4 | 36 | 5180 | Full | 11.67 | 17.00 | 5.91 | Pass |
| HE20 | MCS0 | 4 | 44 | 5220 | Full | 15.09 | 17.00 | 5.91 | Pass |
| HE20 | MCS0 | 4 | 48 | 5240 | Full | 14.87 | 17.00 | 5.91 | Pass |
| HE40 | MCS0 | 4 | 38 | 5190 | Full | 8.16 | 17.00 | 5.91 | Pass |
| HE40 | MCS0 | 4 | 46 | 5230 | Full | 11.75 | 17.00 | 5.91 | Pass |
| HE80 | MCS0 | 4 | 42 | 5210 | Full | 4.97 | 17.00 | 5.91 | Pass |
| HE80+80 | MCS0 | 4 | 42 | 5210 | Full | 2.05 | 17.00 | 5.91 | Pass |
| | | 4 | 58 | 5290 | Full | 2.00 | 11.00 | 5.91 | Pass |

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =GMAX + Array Gain = 2.9dBi + 3.01 dB= 5.91dBi
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

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

| FCC UNII-2a MIMO 4Tx Mode Ant A + D + B + C | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTx | CH. | Freq. (MHz) | RU Config. | 26 dB Bandwidth (MHz) | | | | FCC 26dB Bandwidth Power Limit (dBm) |
| | | | | | | Ant A | Ant D | Ant B | Ant C | Ant A + D + B + C |
| HE20 | MCS0 | 4 | 52 | 5260 | Full | 21.95 | 21.85 | 21.65 | 21.85 | 23.98 |
| HE20 | MCS0 | 4 | 60 | 5300 | Full | 22.25 | 21.70 | 22.00 | 21.95 | 23.98 |
| HE20 | MCS0 | 4 | 64 | 5320 | Full | 21.80 | 21.95 | 21.80 | 22.10 | 23.98 |
| HE40 | MCS0 | 4 | 54 | 5270 | Full | 40.59 | 40.77 | 40.77 | 40.95 | 23.98 |
| HE40 | MCS0 | 4 | 62 | 5310 | Full | 40.68 | 40.50 | 40.50 | 40.41 | 23.98 |
| HE80 | MCS0 | 4 | 58 | 5290 | Full | 82.88 | 82.08 | 82.08 | 82.72 | 23.98 |

| FCC UNII-2a MIMO 4Tx Mode Ant A + D + B + C | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTx | CH. | Freq. (MHz) | RU Config. | 99% Bandwidth (MHz) | | | | IC 99% Bandwidth Power Limit (dBm) | IC 99% Bandwidth EIRP Limit (dBm) | | |
| | | | | | | Ant A | Ant D | Ant B | Ant C | Ant A + D + B + C | Ant A | Ant D | Ant B | Ant C |
| HE20 | MCS0 | 4 | 52 | 5260 | Full | 18.93 | 18.93 | 18.88 | 18.93 | 23.76 | 29.76 | | | |
| HE20 | MCS0 | 4 | 60 | 5300 | Full | 18.93 | 18.93 | 18.93 | 18.93 | 23.77 | 29.77 | | | |
| HE20 | MCS0 | 4 | 64 | 5320 | Full | 18.93 | 18.88 | 18.93 | 18.93 | 23.76 | 29.76 | | | |
| HE40 | MCS0 | 4 | 54 | 5270 | Full | 37.86 | 37.86 | 37.86 | 37.86 | 23.98 | 30.00 | | | |
| HE40 | MCS0 | 4 | 62 | 5310 | Full | 37.96 | 37.86 | 37.86 | 37.86 | 23.98 | 30.00 | | | |
| HE80 | MCS0 | 4 | 58 | 5290 | Full | 76.96 | 76.96 | 77.20 | 77.08 | 23.98 | 30.00 | | | |

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

| FCC UNII-2a MIMO 4Tx Mode Ant A + D + B + C | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | $N_{TX}$ | CH. | Freq. (MHz) | RU Config. | Average Conducted Power (dBm) | | | | | FCC Power Limit (dBm) | DG (dBi) | Pass /Fail |
| | | | | | | Ant A | Ant D | Ant B | Ant C | SUM | Ant A + D + B + C | Ant A + D + B + C | |
| HE20 | MCS0 | 4 | 52 | 5260 | Full | 17.47 | 17.02 | 17.45 | 16.94 | 23.25 | 23.98 | 2.90 | Pass |
| HE20 | MCS0 | 4 | 60 | 5300 | Full | 17.40 | 17.03 | 17.30 | 16.69 | 23.13 | 23.98 | 2.90 | Pass |
| HE20 | MCS0 | 4 | 64 | 5320 | Full | 17.56 | 17.07 | 17.54 | 16.75 | 23.26 | 23.98 | 2.90 | Pass |
| HE40 | MCS0 | 4 | 54 | 5270 | Full | 17.98 | 17.37 | 17.90 | 17.61 | 23.74 | 23.98 | 2.90 | Pass |
| HE40 | MCS0 | 4 | 62 | 5310 | Full | 15.55 | 14.98 | 15.59 | 15.39 | 21.40 | 23.98 | 2.90 | Pass |
| HE80 | MCS0 | 4 | 58 | 5290 | Full | 15.90 | 15.40 | 15.80 | 15.30 | 21.63 | 23.98 | 2.90 | Pass |

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =$G_{MAX}$ + Array Gain = 2.9 dBi + 0 dB = 2.9 dBi
Array Gain = 0 dBi for Nant <= 4 in CDD mode.

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

| FCC UNII-2a MIMO 4Tx Mode Ant A + D + B + C | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | RU Config. | Average PSD with Duty Factor (dBm/MHz) | PSD Limit (dBm/ MHz) | DG (dBi) (see note.1) | Pass /Fail |
| | | | | | | Ant A + D + B + C | Ant A + D + B + C | Ant A + D + B + C | |
| HE20 | MCS0 | 4 | 52 | 5260 | Full | 10.88 | 11.00 | 5.91 | Pass |
| HE20 | MCS0 | 4 | 60 | 5300 | Full | 10.83 | 11.00 | 5.91 | Pass |
| HE20 | MCS0 | 4 | 64 | 5320 | Full | 10.90 | 11.00 | 5.91 | Pass |
| HE40 | MCS0 | 4 | 54 | 5270 | Full | 8.63 | 11.00 | 5.91 | Pass |
| HE40 | MCS0 | 4 | 62 | 5310 | Full | 6.28 | 11.00 | 5.91 | Pass |
| HE80 | MCS0 | 4 | 58 | 5290 | Full | 3.74 | 11.00 | 5.91 | Pass |

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =GMAX + Array Gain = 2.9dBi + 3.01 dB= 5.91dBi
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

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

| FCC UNII-2c MIMO 4Tx Mode Ant A + D + B + C | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTx | CH. | Freq. (MHz) | RU Config. | 26 dB Bandwidth (MHz) | | | | FCC 26dB Bandwidth Power Limit (dBm) |
| | | | | | | Ant A | Ant D | Ant B | Ant C | Ant A + D + B + C |
| HE20 | MCS0 | 4 | 100 | 5500 | Full | 21.90 | 21.85 | 21.35 | 21.95 | 23.98 |
| HE20 | MCS0 | 4 | 116 | 5580 | Full | 21.65 | 21.85 | 21.35 | 21.20 | 23.98 |
| HE20 | MCS0 | 4 | 140 | 5700 | Full | 21.50 | 21.70 | 21.70 | 21.70 | 23.98 |
| HE40 | MCS0 | 4 | 102 | 5510 | Full | 40.59 | 40.50 | 41.31 | 40.50 | 23.98 |
| HE40 | MCS0 | 4 | 110 | 5550 | Full | 40.86 | 41.40 | 40.32 | 40.68 | 23.98 |
| HE40 | MCS0 | 4 | 134 | 5670 | Full | 40.68 | 40.68 | 41.13 | 40.50 | 23.98 |
| HE80 | MCS0 | 4 | 106 | 5530 | Full | 82.40 | 82.72 | 82.56 | 81.60 | 23.98 |
| HE80 | MCS0 | 4 | 122 | 5610 | Full | 82.88 | 82.40 | 82.56 | 82.56 | 23.98 |
| HE80+80 | MCS0 | 4 | 106 | 5530 | Full | 82.48 | - | 82.48 | - | 23.98 |
| | | | 122 | 5610 | Full | - | 82.88 | - | 82.64 | |

| FCC UNII-2c Straddle Channel MIMO 4Tx Mode Ant A + D + B + C | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTx | CH. | Freq. (MHz) | RU Config. | 26 dB Bandwidth (MHz) | | | | FCC 26dB Bandwidth Power Limit (dBm) | 6 dB Bandwidth for Straddle Channel (MHz) | | |
| | | | | | | Ant A | Ant D | Ant B | Ant C | Ant A + D + B + C | Ant A | Ant D | Ant B | Ant C |
| HE20 | MCS0 | 4 | 144 | 5720 | Full | 16.05 | 15.95 | 16.05 | 16.05 | 23.03 | 4.17 | 4.45 | 4.35 | 4.40 |
| HE40 | MCS0 | 4 | 142 | 5710 | Full | 35.25 | 35.25 | 35.43 | 35.43 | 23.98 | 3.99 | 3.99 | 3.90 | 3.90 |
| HE80 | MCS0 | 4 | 138 | 5690 | Full | 76.28 | 76.12 | 76.44 | 76.44 | 23.98 | 3.08 | 3.88 | 3.88 | 3.08 |

| FCC UNII-2c MIMO 4Tx Mode Ant A + D + B + C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTx | CH. | Freq. (MHz) | RU Config. | 99% Bandwidth (MHz) | | | | IC 99% Bandwidth Power Limit (dBm) | IC 99% Bandwidth EIRP Limit (dBm) |
| | | | | | | Ant A | Ant D | Ant B | Ant C | Ant A + D + B + C | Ant A + D + B + C |
| HE20 | MCS0 | 4 | 100 | 5500 | Full | 18.88 | 18.93 | 18.88 | 18.88 | 23.76 | 29.76 |
| HE20 | MCS0 | 4 | 116 | 5580 | Full | 18.88 | 18.88 | 18.93 | 18.88 | 23.76 | 29.76 |
| HE20 | MCS0 | 4 | 140 | 5700 | Full | 18.88 | 18.88 | 18.88 | 18.93 | 23.76 | 29.76 |
| HE40 | MCS0 | 4 | 102 | 5510 | Full | 37.86 | 37.86 | 37.76 | 37.76 | 23.98 | 30.00 |
| HE40 | MCS0 | 4 | 110 | 5550 | Full | 37.86 | 37.86 | 37.76 | 37.76 | 23.98 | 30.00 |
| HE40 | MCS0 | 4 | 134 | 5670 | Full | 37.86 | 37.76 | 37.86 | 37.76 | 23.98 | 30.00 |
| HE80 | MCS0 | 4 | 106 | 5530 | Full | 76.96 | 77.08 | 76.96 | 76.96 | 23.98 | 30.00 |
| HE80+80 | MCS0 | 4 | 106 | 5530 | Full | 77.08 | - | 77.08 | - | 23.98 | 30.00 |
| | | | 122 | 5610 | Full | - | 77.08 | - | 76.84 | 23.98 | 30.00 |

| FCC UNII-2c Straddle Channel MIMO 4Tx Mode Ant A + D + B + C | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTx | CH. | Freq. (MHz) | RU Config. | 99% Bandwidth (MHz) | | | | IC 99% Bandwidth Power Limit (dBm) | IC 99% Bandwidth EIRP Limit (dBm) |
| | | | | | | Ant A | Ant D | Ant B | Ant C | Ant A + D + B + C | Ant A + D + B + C |
| HE20 | MCS0 | 4 | 144 | 5720 | Full | 14.49 | 14.49 | 14.49 | 14.49 | 22.61 | 28.61 |
| HE40 | MCS0 | 4 | 142 | 5710 | Full | 33.98 | 33.88 | 33.98 | 33.98 | 23.98 | 30.00 |
| HE80 | MCS0 | 4 | 138 | 5690 | Full | 73.60 | 73.48 | 73.48 | 73.60 | 23.98 | 30.00 |

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

| FCC UNII-2c MIMO 4Tx Mode Ant A + D + B + C | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | RU Config. | Average Conducted Power (dB) | | | | | FCC Power Limit (dBm) | DG (dBi) | Pass /Fail |
| | | | | | | Ant A | Ant D | Ant B | Ant C | SUM | Ant A + D + B + C | Ant A + D + B + C | |
| HE20 | MCS0 | 4 | 100 | 5500 | Full | 17.20 | 16.90 | 17.10 | 16.40 | 22.93 | 23.98 | 2.90 | Pass |
| HE20 | MCS0 | 4 | 116 | 5580 | Full | 17.33 | 16.71 | 17.43 | 16.66 | 23.07 | 23.98 | 2.90 | Pass |
| HE20 | MCS0 | 4 | 140 | 5700 | Full | 17.31 | 16.59 | 17.23 | 16.79 | 23.01 | 23.98 | 2.90 | Pass |
| HE40 | MCS0 | 4 | 102 | 5510 | Full | 17.70 | 17.14 | 17.79 | 17.29 | 23.51 | 23.98 | 2.90 | Pass |
| HE40 | MCS0 | 4 | 110 | 5550 | Full | 17.91 | 17.35 | 18.17 | 17.93 | 23.87 | 23.98 | 2.90 | Pass |
| HE40 | MCS0 | 4 | 134 | 5670 | Full | 17.95 | 17.54 | 18.04 | 17.45 | 23.77 | 23.98 | 2.90 | Pass |
| HE80 | MCS0 | 4 | 106 | 5530 | Full | 17.50 | 16.90 | 17.50 | 16.90 | 23.23 | 23.98 | 2.90 | Pass |
| HE80 | MCS0 | 4 | 122 | 5610 | Full | 17.90 | 17.40 | 18.30 | 17.80 | 23.88 | 23.98 | 2.90 | Pass |
| HE80+80 | MCS0 | 4 | 106+122 | 5530+5610 | Full | 18.28 | 17.14 | 18.18 | 17.27 | 23.77 | 23.98 | 2.90 | Pass |

| FCC UNII-2c MIMO 4Tx Mode Ant A + D + B + C | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | RU Config. | Average Conducted Power (dB) | | | | | FCC Power Limit (dBm) | DG (dBi) | Pass /Fail |
| | | | | | | Ant A | Ant D | Ant B | Ant C | SUM | Ant A + D + B + C | Ant A + D + B + C | |
| HE20 | MCS0 | 4 | 144 | 5720 | Full | 17.02 | 16.39 | 17.05 | 16.25 | 22.71 | 23.03 | 2.90 | Pass |
| HE40 | MCS0 | 4 | 142 | 5710 | Full | 18.08 | 17.62 | 18.04 | 17.83 | 23.92 | 23.98 | 2.90 | Pass |
| HE80 | MCS0 | 4 | 138 | 5690 | Full | 18.10 | 17.60 | 18.00 | 17.70 | 23.88 | 23.98 | 2.90 | Pass |

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =$G_{MAX}$ + Array Gain = 2.9 dBi + 0 dB = 2.9 dBi
Array Gain = 0 dBi for Nant <= 4 in CDD mode.

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

| FCC UNII-2c MIMO 4Tx Mode Ant A + D + B + C | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | RU Config. | Average PSD with Duty Factor (dBm/MHz) | PSD Limit (dBm/ MHz) | DG (dBi) (see note.1) | Pass /Fail |
| | | | | | | Ant A + D + B + C | Ant A + D + B + C | Ant A + D + B + C | |
| HE20 | MCS0 | 4 | 100 | 5500 | Full | 10.71 | 11.00 | 5.91 | Pass |
| HE20 | MCS0 | 4 | 116 | 5580 | Full | 10.78 | 11.00 | 5.91 | Pass |
| HE20 | MCS0 | 4 | 140 | 5700 | Full | 10.81 | 11.00 | 5.91 | Pass |
| HE40 | MCS0 | 4 | 102 | 5510 | Full | 8.56 | 11.00 | 5.91 | Pass |
| HE40 | MCS0 | 4 | 110 | 5550 | Full | 8.72 | 11.00 | 5.91 | Pass |
| HE40 | MCS0 | 4 | 134 | 5670 | Full | 8.71 | 11.00 | 5.91 | Pass |
| HE80 | MCS0 | 4 | 106 | 5530 | Full | 5.42 | 11.00 | 5.91 | Pass |
| HE80 | MCS0 | 4 | 122 | 5610 | Full | 6.16 | 11.00 | 5.91 | Pass |
| HE80+80 | MCS0 | 4 | 106 | 5530 | Full | 3.45 | 11.00 | 5.91 | Pass |
| | | | 122 | 5610 | Full | 2.45 | 11.00 | 5.91 | Pass |

| FCC UNII-2c Straddle Channel MIMO 4Tx Mode Ant A + D + B + C | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | RU Config. | Average PSD with Duty Factor (dBm/MHz) | PSD Limit (dBm/ MHz) | DG (dBi) | Pass /Fail |
| | | | | | | Ant A + D + B + C | Ant A + D + B + C | Ant A + D + B + C | |
| HE20 | MCS0 | 4 | 144 | 5720 | Full | 10.58 | 11.00 | 5.91 | Pass |
| HE40 | MCS0 | 4 | 142 | 5710 | Full | 9.21 | 11.00 | 5.91 | Pass |
| HE80 | MCS0 | 4 | 138 | 5690 | Full | 6.30 | 11.00 | 5.91 | Pass |

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =GMAX + Array Gain = 2.9dBi + 3.01 dB= 5.91dBi
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

**<TXBF>**

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

| FCC UNII-1 Beamforming Mode Ant A + D + B + C | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | $N_{TX}$ | CH. | Freq. (MHz) | Average Conducted Power (dBm) | | | | | FCC Power Limit (dBm) | DG (dBi) | Pass /Fail |
| | | | | | Ant A | Ant D | Ant B | Ant C | SUM | Ant A + D + B + C | Ant A + D + B + C | |
| 11a | 6Mbps | 4 | 36 | 5180 | 18.64 | 18.20 | 18.61 | 18.36 | 24.48 | 30.00 | 5.91 | Pass |
| 11a | 6Mbps | 4 | 44 | 5220 | 21.47 | 21.29 | 21.76 | 21.29 | 27.48 | 30.00 | 5.91 | Pass |
| 11a | 6Mbps | 4 | 48 | 5240 | 21.50 | 21.10 | 21.63 | 21.17 | 27.38 | 30.00 | 5.91 | Pass |
| HT20 | MCS0 | 4 | 36 | 5180 | 17.87 | 17.41 | 17.99 | 17.58 | 23.74 | 30.00 | 5.91 | Pass |
| HT20 | MCS0 | 4 | 44 | 5220 | 21.10 | 20.90 | 21.50 | 21.10 | 27.18 | 30.00 | 5.91 | Pass |
| HT20 | MCS0 | 4 | 48 | 5240 | 21.27 | 20.81 | 21.34 | 20.64 | 27.05 | 30.00 | 5.91 | Pass |
| HT40 | MCS0 | 4 | 38 | 5190 | 17.40 | 17.05 | 17.40 | 17.05 | 23.25 | 30.00 | 5.91 | Pass |
| HT40 | MCS0 | 4 | 46 | 5230 | 21.03 | 20.45 | 20.95 | 20.45 | 26.75 | 30.00 | 5.91 | Pass |
| VHT20 | MCS0 | 4 | 36 | 5180 | 17.88 | 17.65 | 17.96 | 17.39 | 23.75 | 30.00 | 5.91 | Pass |
| VHT20 | MCS0 | 4 | 44 | 5220 | 21.22 | 20.96 | 21.39 | 20.91 | 27.15 | 30.00 | 5.91 | Pass |
| VHT20 | MCS0 | 4 | 48 | 5240 | 21.36 | 20.79 | 21.24 | 20.79 | 27.07 | 30.00 | 5.91 | Pass |
| VHT40 | MCS0 | 4 | 38 | 5190 | 17.44 | 16.98 | 17.46 | 17.03 | 23.25 | 30.00 | 5.91 | Pass |
| VHT40 | MCS0 | 4 | 46 | 5230 | 20.93 | 20.50 | 20.99 | 20.49 | 26.75 | 30.00 | 5.91 | Pass |
| VHT80 | MCS0 | 4 | 42 | 5210 | 16.86 | 16.47 | 16.94 | 16.52 | 22.72 | 30.00 | 5.91 | Pass |

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =$G_{MAX}$ + Array Gain = 2.9 dBi + 3.01 dB = 5.91dBi
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

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

| FCC UNII-2a Beamforming Mode Ant A + D + B + C | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Average Conducted Power (dBm) | | | | | FCC Power Limit (dBm) | DG (dBi) | Pass /Fail |
| | | | | | Ant A | Ant D | Ant B | Ant C | SUM | Ant A + D + B + C | Ant A + D + B + C | |
| 11a | 6Mbps | 4 | 52 | 5260 | 16.74 | 16.17 | 16.86 | 16.32 | 22.55 | 23.98 | 5.91 | Pass |
| 11a | 6Mbps | 4 | 60 | 5300 | 16.61 | 16.24 | 16.63 | 15.99 | 22.40 | 23.98 | 5.91 | Pass |
| 11a | 6Mbps | 4 | 64 | 5320 | 16.29 | 15.72 | 16.50 | 15.89 | 22.13 | 23.98 | 5.91 | Pass |
| HT20 | MCS0 | 4 | 52 | 5260 | 17.48 | 17.02 | 17.44 | 16.65 | 23.18 | 23.98 | 5.91 | Pass |
| HT20 | MCS0 | 4 | 60 | 5300 | 17.30 | 17.00 | 17.30 | 16.70 | 23.10 | 23.98 | 5.91 | Pass |
| HT20 | MCS0 | 4 | 64 | 5320 | 17.53 | 16.78 | 17.43 | 16.85 | 23.18 | 23.98 | 5.91 | Pass |
| HT40 | MCS0 | 4 | 54 | 5270 | 18.10 | 17.20 | 17.90 | 17.50 | 23.71 | 23.98 | 5.91 | Pass |
| HT40 | MCS0 | 4 | 62 | 5310 | 15.58 | 14.88 | 15.58 | 15.20 | 21.34 | 23.98 | 5.91 | Pass |
| VHT20 | MCS0 | 4 | 52 | 5260 | 17.40 | 17.00 | 17.56 | 16.86 | 23.23 | 23.98 | 5.91 | Pass |
| VHT20 | MCS0 | 4 | 60 | 5300 | 17.57 | 16.75 | 17.42 | 16.55 | 23.11 | 23.98 | 5.91 | Pass |
| VHT20 | MCS0 | 4 | 64 | 5320 | 17.46 | 16.96 | 17.52 | 16.96 | 23.25 | 23.98 | 5.91 | Pass |
| VHT40 | MCS0 | 4 | 54 | 5270 | 18.01 | 17.33 | 17.95 | 17.51 | 23.73 | 23.98 | 5.91 | Pass |
| VHT40 | MCS0 | 4 | 62 | 5310 | 15.63 | 14.96 | 15.57 | 15.26 | 21.38 | 23.98 | 5.91 | Pass |
| VHT80 | MCS0 | 4 | 58 | 5290 | 15.87 | 15.39 | 15.81 | 15.18 | 21.59 | 23.98 | 5.91 | Pass |

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =$G_{MAX}$ + Array Gain = 2.9 dBi + 3.01 dB = 5.91dBi
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

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

| FCC UNII-2c Beamforming Mode Ant A + D + B + C | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTx | CH. | Freq. (MHz) | Average Conducted Power (dB) | | | | | FCC Power Limit (dBm) | DG (dBi) | Pass /Fail |
| | | | | | Ant A | Ant D | Ant B | Ant C | SUM | Ant A + D + B + C | Ant A + D + B + C | |
| 11a | 6Mbps | 4 | 100 | 5500 | 16.51 | 16.12 | 16.36 | 15.44 | 22.15 | 23.98 | 5.91 | Pass |
| 11a | 6Mbps | 4 | 116 | 5580 | 16.62 | 16.35 | 16.73 | 15.98 | 22.45 | 23.98 | 5.91 | Pass |
| 11a | 6Mbps | 4 | 140 | 5700 | 16.58 | 16.19 | 16.57 | 15.77 | 22.31 | 23.98 | 5.91 | Pass |
| HT20 | MCS0 | 4 | 100 | 5500 | 17.00 | 16.70 | 17.10 | 16.80 | 22.92 | 23.98 | 5.91 | Pass |
| HT20 | MCS0 | 4 | 116 | 5580 | 17.10 | 16.64 | 17.37 | 16.93 | 23.04 | 23.98 | 5.91 | Pass |
| HT20 | MCS0 | 4 | 140 | 5700 | 17.09 | 16.47 | 16.84 | 16.45 | 22.74 | 23.98 | 5.91 | Pass |
| HT40 | MCS0 | 4 | 102 | 5510 | 17.75 | 17.05 | 17.75 | 17.25 | 23.48 | 23.98 | 5.91 | Pass |
| HT40 | MCS0 | 4 | 110 | 5550 | 17.89 | 17.29 | 18.09 | 17.64 | 23.76 | 23.98 | 5.91 | Pass |
| HT40 | MCS0 | 4 | 134 | 5670 | 17.80 | 17.30 | 18.47 | 17.21 | 23.75 | 23.98 | 5.91 | Pass |
| VHT20 | MCS0 | 4 | 100 | 5500 | 17.26 | 16.73 | 17.05 | 16.45 | 22.90 | 23.98 | 5.91 | Pass |
| VHT20 | MCS0 | 4 | 116 | 5580 | 17.17 | 16.80 | 17.30 | 16.79 | 23.04 | 23.98 | 5.91 | Pass |
| VHT20 | MCS0 | 4 | 140 | 5700 | 17.54 | 16.82 | 17.01 | 16.44 | 22.99 | 23.98 | 5.91 | Pass |
| VHT40 | MCS0 | 4 | 102 | 5510 | 17.83 | 17.03 | 17.77 | 17.21 | 23.49 | 23.98 | 5.91 | Pass |
| VHT40 | MCS0 | 4 | 110 | 5550 | 17.83 | 17.33 | 18.15 | 17.98 | 23.85 | 23.98 | 5.91 | Pass |
| VHT40 | MCS0 | 4 | 134 | 5670 | 17.92 | 17.45 | 18.08 | 17.39 | 23.74 | 23.98 | 5.91 | Pass |
| VHT80 | MCS0 | 4 | 106 | 5530 | 17.47 | 16.77 | 17.52 | 16.91 | 23.20 | 23.98 | 5.91 | Pass |
| VHT80 | MCS0 | 4 | 122 | 5610 | 17.80 | 17.41 | 18.29 | 17.81 | 23.86 | 23.98 | 5.91 | Pass |

| FCC UNII-2c Straddle Channel Beamforming Mode Ant A + D + B + C | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTx | CH. | Freq. (MHz) | Average Conducted Power (dB) | | | | | FCC Power Limit (dBm) | DG (dBi) | Pass /Fail |
| | | | | | Ant A | Ant D | Ant B | Ant C | SUM | Ant A + D + B + C | Ant A + D + B + C | |
| 11a | 6Mbps | 4 | 144 | 5720 | 16.55 | 16.01 | 16.41 | 15.21 | 22.10 | 22.83 | 5.91 | Pass |
| HT20 | MCS0 | 4 | 144 | 5720 | 16.95 | 16.35 | 17.05 | 16.25 | 22.68 | 23.98 | 5.91 | Pass |
| HT40 | MCS0 | 4 | 142 | 5710 | 18.06 | 17.55 | 18.05 | 17.67 | 23.86 | 23.98 | 5.91 | Pass |
| VHT20 | MCS0 | 4 | 144 | 5720 | 16.88 | 16.59 | 16.87 | 16.02 | 22.62 | 23.98 | 5.91 | Pass |
| VHT40 | MCS0 | 4 | 142 | 5710 | 18.06 | 17.60 | 18.12 | 17.76 | 23.91 | 23.98 | 5.91 | Pass |
| VHT80 | MCS0 | 4 | 138 | 5690 | 18.04 | 17.57 | 18.16 | 17.53 | 23.85 | 23.98 | 5.91 | Pass |

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =$G_{MAX}$ + Array Gain = 2.9 dBi + 3.01 dB = 5.91dBi
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

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

| FCC UNII-1 Beamforming Mode Ant A + D + B + C | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | RU Config. | Average Conducted Power (dBm) | | | | | FCC Power Limit (dBm) | DG (dBi) | Pass /Fail |
| | | | | | | Ant A | Ant D | Ant B | Ant C | SUM | Ant A + D + B + C | Ant A + D + B + C | |
| HE20 | MCS0 | 4 | 36 | 5180 | Full | 17.81 | 17.51 | 18.03 | 17.67 | 23.78 | 30.00 | 2.90 | Pass |
| HE20 | MCS0 | 4 | 44 | 5220 | Full | 21.12 | 20.99 | 21.35 | 21.19 | 27.19 | 30.00 | 2.90 | Pass |
| HE20 | MCS0 | 4 | 48 | 5240 | Full | 21.21 | 20.94 | 21.38 | 20.72 | 27.09 | 30.00 | 2.90 | Pass |
| HE40 | MCS0 | 4 | 38 | 5190 | Full | 17.30 | 17.10 | 17.50 | 17.10 | 23.27 | 30.00 | 2.90 | Pass |
| HE40 | MCS0 | 4 | 46 | 5230 | Full | 20.84 | 20.62 | 21.01 | 20.53 | 26.77 | 30.00 | 2.90 | Pass |
| HE80 | MCS0 | 4 | 42 | 5210 | Full | 16.90 | 16.50 | 16.90 | 16.60 | 22.75 | 30.00 | 2.90 | Pass |

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =$G_{MAX}$ + Array Gain = 2.9 dBi + 3.01 dB= 5.91 dBi
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

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

| FCC UNII-2a Beamforming Mode Ant A + D + B + C | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | $N_{TX}$ | CH. | Freq. (MHz) | RU Config. | Average Conducted Power (dBm) | | | | | FCC Power Limit (dBm) | DG (dBi) | Pass /Fail |
| | | | | | | Ant A | Ant D | Ant B | Ant C | SUM | Ant A + D + B + C | Ant A + D + B + C | |
| HE20 | MCS0 | 4 | 52 | 5260 | Full | 17.47 | 17.02 | 17.45 | 16.94 | 23.25 | 23.98 | 2.90 | Pass |
| HE20 | MCS0 | 4 | 60 | 5300 | Full | 17.40 | 17.03 | 17.30 | 16.69 | 23.13 | 23.98 | 2.90 | Pass |
| HE20 | MCS0 | 4 | 64 | 5320 | Full | 17.56 | 17.07 | 17.54 | 16.75 | 23.26 | 23.98 | 2.90 | Pass |
| HE40 | MCS0 | 4 | 54 | 5270 | Full | 17.98 | 17.37 | 17.90 | 17.61 | 23.74 | 23.98 | 2.90 | Pass |
| HE40 | MCS0 | 4 | 62 | 5310 | Full | 15.55 | 14.98 | 15.59 | 15.39 | 21.40 | 23.98 | 2.90 | Pass |
| HE80 | MCS0 | 4 | 58 | 5290 | Full | 15.90 | 15.40 | 15.80 | 15.30 | 21.63 | 23.98 | 2.90 | Pass |

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =$G_{MAX}$ + Array Gain = 2.9 dBi + 3.01 dB= 5.91 dBi
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

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

| FCC UNII-2c Beamforming Mode Ant A + D + B + C | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | RU Config. | Average Conducted Power (dB) | | | | | FCC Power Limit (dBm) | DG (dBi) | Pass /Fail |
| | | | | | | Ant A | Ant D | Ant B | Ant C | SUM | Ant A + D + B + C | Ant A + D + B + C | |
| HE20 | MCS0 | 4 | 100 | 5500 | Full | 17.20 | 16.90 | 17.10 | 16.40 | 22.93 | 23.98 | 2.90 | Pass |
| HE20 | MCS0 | 4 | 116 | 5580 | Full | 17.33 | 16.71 | 17.43 | 16.66 | 23.07 | 23.98 | 2.90 | Pass |
| HE20 | MCS0 | 4 | 140 | 5700 | Full | 17.31 | 16.59 | 17.23 | 16.79 | 23.01 | 23.98 | 2.90 | Pass |
| HE40 | MCS0 | 4 | 102 | 5510 | Full | 17.70 | 17.14 | 17.79 | 17.29 | 23.51 | 23.98 | 2.90 | Pass |
| HE40 | MCS0 | 4 | 110 | 5550 | Full | 17.91 | 17.35 | 18.17 | 17.93 | 23.87 | 23.98 | 2.90 | Pass |
| HE40 | MCS0 | 4 | 134 | 5670 | Full | 17.95 | 17.54 | 18.04 | 17.45 | 23.77 | 23.98 | 2.90 | Pass |
| HE80 | MCS0 | 4 | 106 | 5530 | Full | 17.50 | 16.90 | 17.50 | 16.90 | 23.23 | 23.98 | 2.90 | Pass |
| HE80 | MCS0 | 4 | 122 | 5610 | Full | 17.90 | 17.40 | 18.30 | 17.80 | 23.88 | 23.98 | 2.90 | Pass |

| FCC UNII-2c Beamforming Mode Ant A + D + B + C | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | RU Config. | Average Conducted Power (dB) | | | | | FCC Power Limit (dBm) | DG (dBi) | Pass /Fail |
| | | | | | | Ant A | Ant D | Ant B | Ant C | SUM | Ant A + D + B + C | Ant A + D + B + C | |
| HE20 | MCS0 | 4 | 144 | 5720 | Full | 17.02 | 16.39 | 17.05 | 16.25 | 22.71 | 23.03 | 2.90 | Pass |
| HE40 | MCS0 | 4 | 142 | 5710 | Full | 18.08 | 17.62 | 18.04 | 17.83 | 23.92 | 23.98 | 2.90 | Pass |
| HE80 | MCS0 | 4 | 138 | 5690 | Full | 18.10 | 17.60 | 18.00 | 17.70 | 23.88 | 23.98 | 2.90 | Pass |

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =$G_{MAX}$ + Array Gain = 2.9 dBi + 3.01 dB= 5.91 dBi
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

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

| UNII-2c MIMO 4Tx Mode Ant E + H + F + G | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | 26 dB Bandwidth (MHz) | | | | FCC 26dB Bandwidth Power Limit (dBm) |
| | | | | | Ant E | Ant H | Ant F | Ant G | Ant E + H + F + G |
| 11a | 6Mbps | 4 | 100 | 5500 | 21.90 | 21.00 | 21.50 | 21.20 | 23.98 |
| 11a | 6Mbps | 4 | 116 | 5580 | 22.00 | 21.55 | 21.85 | 21.55 | 23.98 |
| 11a | 6Mbps | 4 | 140 | 5700 | 22.30 | 21.25 | 21.60 | 21.70 | 23.98 |

| UNII-2c Straddle Channel MIMO 4Tx Mode Ant E + H + F + G | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | 26 dB Bandwidth (MHz) | | | | FCC 26dB Bandwidth Power Limit (dBm) | 6 dB Bandwidth for Straddle Channel (MHz) | | | |
| | | | | | Ant E | Ant H | Ant F | Ant G | Ant E + H + F + G | Ant E | Ant H | Ant F | Ant G |
| 11a | 6Mbps | 4 | 144 | 5720 | 15.80 | 15.35 | 15.65 | 15.45 | 22.86 | 3.22 | 3.30 | 3.30 | 3.30 |

| UNII-2c MIMO 4Tx Mode Ant E + H + F + G | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | 99% Bandwidth (MHz) | | | | IC 99% Bandwidth Power Limit (dBm) | IC 99% Bandwidth EIRP Limit (dBm) |
| | | | | | Ant E | Ant H | Ant F | Ant G | Ant E + H + F + G | Ant E + H + F + G |
| 11a | 6Mbps | 4 | 100 | 5500 | 16.78 | 16.78 | 16.73 | 16.73 | 23.24 | 29.24 |
| 11a | 6Mbps | 4 | 116 | 5580 | 16.78 | 16.73 | 16.78 | 16.73 | 23.24 | 29.24 |
| 11a | 6Mbps | 4 | 140 | 5700 | 16.78 | 16.73 | 16.78 | 16.73 | 23.24 | 29.24 |

| UNII-2c Straddle Channel MIMO 4Tx Mode Ant E + H + F + G | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | 99% Bandwidth (MHz) | | | | IC 99% Bandwidth Power Limit (dBm) | IC 99% Bandwidth EIRP Limit (dBm) |
| | | | | | Ant E | Ant H | Ant F | Ant G | Ant E + H + F + G | Ant E + H + F + G |
| 11a | 6Mbps | 4 | 144 | 5720 | 13.34 | 13.34 | 13.34 | 13.34 | 22.25 | 28.25 |

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

| FCC UNII-2c MIMO 4Tx Mode Ant E + H + F + G | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Average Conducted Power (dB) | | | | | FCC Power Limit (dBm) | DG (dBi) | Pass /Fail |
| | | | | | Ant E | Ant H | Ant F | Ant G | SUM | Ant E + H + F + G | Ant E + H + F + G | |
| 11a | 6Mbps | 4 | 100 | 5500 | 15.29 | 14.96 | 15.44 | 14.69 | 21.13 | 23.98 | 2.90 | Pass |
| 11a | 6Mbps | 4 | 116 | 5580 | 15.66 | 15.13 | 15.86 | 15.15 | 21.48 | 23.98 | 2.90 | Pass |
| 11a | 6Mbps | 4 | 140 | 5700 | 15.91 | 15.58 | 16.28 | 15.70 | 21.90 | 23.98 | 2.90 | Pass |
| HT20 | MCS0 | 4 | 100 | 5500 | 16.80 | 16.39 | 16.72 | 16.23 | 22.56 | 23.98 | 2.90 | Pass |
| HT20 | MCS0 | 4 | 116 | 5580 | 16.86 | 16.31 | 17.11 | 16.32 | 22.68 | 23.98 | 2.90 | Pass |
| HT20 | MCS0 | 4 | 140 | 5700 | 16.65 | 16.11 | 16.82 | 16.20 | 22.48 | 23.98 | 2.90 | Pass |
| HT40 | MCS0 | 4 | 102 | 5510 | 17.82 | 17.40 | 18.00 | 17.20 | 23.64 | 23.98 | 2.90 | Pass |
| HT40 | MCS0 | 4 | 110 | 5550 | 17.80 | 17.20 | 18.00 | 17.20 | 23.59 | 23.98 | 2.90 | Pass |
| HT40 | MCS0 | 4 | 134 | 5670 | 18.10 | 17.40 | 18.15 | 17.65 | 23.86 | 23.98 | 2.90 | Pass |
| VHT20 | MCS0 | 4 | 100 | 5500 | 16.74 | 16.44 | 16.80 | 16.27 | 22.59 | 23.98 | 2.90 | Pass |
| VHT20 | MCS0 | 4 | 116 | 5580 | 16.96 | 16.34 | 17.02 | 16.34 | 22.70 | 23.98 | 2.90 | Pass |
| VHT20 | MCS0 | 4 | 140 | 5700 | 16.67 | 16.12 | 16.86 | 16.26 | 22.51 | 23.98 | 2.90 | Pass |
| VHT40 | MCS0 | 4 | 102 | 5510 | 17.75 | 17.45 | 18.05 | 17.20 | 23.64 | 23.98 | 2.90 | Pass |
| VHT40 | MCS0 | 4 | 110 | 5550 | 17.82 | 17.25 | 18.01 | 17.20 | 23.60 | 23.98 | 2.90 | Pass |
| VHT40 | MCS0 | 4 | 134 | 5670 | 18.10 | 17.35 | 18.20 | 17.55 | 23.84 | 23.98 | 2.90 | Pass |
| VHT80 | MCS0 | 4 | 106 | 5530 | 17.71 | 17.27 | 17.93 | 16.99 | 23.51 | 23.98 | 2.90 | Pass |
| VHT80 | MCS0 | 4 | 122 | 5610 | 17.66 | 17.50 | 17.98 | 17.25 | 23.63 | 23.98 | 2.90 | Pass |
| VHT160 | MCS0 | 4 | 114 | 5570 | 17.20 | 16.60 | 17.30 | 16.50 | 22.93 | 23.98 | 2.90 | Pass |

| FCC UNII-2c Straddle Channel MIMO 4Tx Mode Ant E + H + F + G | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Average Conducted Power (dB) | | | | | FCC Power Limit (dBm) | DG (dBi) | Pass /Fail |
| | | | | | Ant E | Ant H | Ant F | Ant G | SUM | Ant E + H + F + G | Ant E + H + F + G | |
| 11a | 6Mbps | 4 | 144 | 5720 | 16.23 | 15.56 | 16.13 | 15.51 | 21.89 | 22.86 | 2.90 | Pass |
| HT20 | MCS0 | 4 | 144 | 5720 | 16.65 | 16.16 | 16.79 | 16.13 | 22.46 | 23.98 | 2.90 | Pass |
| HT40 | MCS0 | 4 | 142 | 5710 | 18.09 | 17.52 | 18.24 | 17.70 | 23.92 | 23.98 | 2.90 | Pass |
| VHT20 | MCS0 | 4 | 144 | 5720 | 16.76 | 16.25 | 16.74 | 16.07 | 22.49 | 23.98 | 2.90 | Pass |
| VHT40 | MCS0 | 4 | 142 | 5710 | 18.05 | 17.50 | 18.30 | 17.60 | 23.90 | 23.98 | 2.90 | Pass |
| VHT80 | MCS0 | 4 | 138 | 5690 | 18.10 | 17.50 | 18.20 | 17.70 | 23.90 | 23.98 | 2.90 | Pass |

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =$G_{MAX}$ + Array Gain = 2.9 dBi + 0 dB = 2.9 dBi
Array Gain = 0 dBi for Nant <= 4 in CDD mode.

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

| FCC UNII-2c MIMO 4Tx Mode Ant E + H + F + G | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Average PSD with Duty Factor (dBm/MHz) | PSD Limit (dBm/ MHz) | DG (dBi) (see note.1) | Pass /Fail |
| | | | | | Ant E + H + F + G | Ant E + H + F + G | Ant E + H + F + G | |
| 11a | 6Mbps | 4 | 100 | 5500 | 10.52 | 11.00 | 5.91 | Pass |
| 11a | 6Mbps | 4 | 116 | 5580 | 10.53 | 11.00 | 5.91 | Pass |
| 11a | 6Mbps | 4 | 140 | 5700 | 10.74 | 11.00 | 5.91 | Pass |

| FCC UNII-2c Straddle Channel MIMO 4Tx Mode Ant E + H + F + G | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Average PSD with Duty Factor (dBm/MHz) | PSD Limit (dBm/ MHz) | DG (dBi) | Pass /Fail |
| | | | | | Ant E + H + F + G | Ant E + H + F + G | Ant E + H + F + G | |
| 11a | 6Mbps | 4 | 144 | 5720 | 10.97 | 11.00 | 5.91 | Pass |

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another. Each polarization has 2 antenna

Note 2: Directional Gain =$G_{MAX}$ + Array Gain = 2.9dBi + 3.01 dB= 5.91dBi

Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

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

| Band III MIMO 4Tx Mode Ant E + H + F + G | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | RU Config. | 26 dB Bandwidth (MHz) | | | | FCC 26dB Bandwidth Power Limit (dBm) |
| | | | | | | Ant E | Ant H | Ant F | Ant G | Ant E + H + F + G |
| HE20 | MCS0 | 4 | 100 | 5500 | Full | 22.30 | 22.65 | 22.90 | 23.10 | 23.98 |
| HE20 | MCS0 | 4 | 116 | 5580 | Full | 22.95 | 23.05 | 22.60 | 22.50 | 23.98 |
| HE20 | MCS0 | 4 | 140 | 5700 | Full | 22.70 | 23.30 | 22.90 | 22.80 | 23.98 |
| HE40 | MCS0 | 4 | 102 | 5510 | Full | 40.23 | 40.50 | 40.14 | 40.05 | 23.98 |
| HE40 | MCS0 | 4 | 110 | 5550 | Full | 40.23 | 40.14 | 40.14 | 39.87 | 23.98 |
| HE40 | MCS0 | 4 | 134 | 5670 | Full | 40.41 | 40.23 | 40.05 | 40.05 | 23.98 |
| HE80 | MCS0 | 4 | 106 | 5530 | Full | 82.24 | 81.76 | 82.08 | 82.56 | 23.98 |
| HE80 | MCS0 | 4 | 122 | 5610 | Full | 82.88 | 82.56 | 82.72 | 81.92 | 23.98 |
| HE160 | MCS0 | 4 | 114 | 5570 | Full | 163.84 | 163.84 | 163.84 | 164.16 | 23.98 |

| Band III Straddle Channel MIMO 4Tx Mode Ant E + H + F + G | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | RU Config. | 26 dB Bandwidth (MHz) | | | | FCC 26dB Bandwidth Power Limit (dBm) | 6 dB Bandwidth for Straddle Channel (MHz) | | | |
| | | | | | | Ant E | Ant H | Ant F | Ant G | Ant E + H + F + G | Ant E | Ant H | Ant F | Ant G |
| HE20 | MCS0 | 4 | 144 | 5720 | Full | 16.30 | 16.40 | 16.20 | 16.60 | 23.10 | 4.52 | 4.55 | 4.60 | 4.60 |
| HE40 | MCS0 | 4 | 142 | 5710 | Full | 34.89 | 34.89 | 35.25 | 34.98 | 23.98 | 3.95 | 3.90 | 3.90 | 3.99 |
| HE80 | MCS0 | 4 | 138 | 5690 | Full | 76.12 | 76.60 | 76.60 | 76.44 | 23.98 | 3.56 | 3.56 | 3.72 | 4.04 |

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

| FCC UNII-2c MIMO 4Tx Mode Ant E + H + F + G | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MO 2Tx | Data Rate | NTX | CH. | Freq. (MHz) | RU Config. | Average Conducted Power (dB) | | | | | FCC Power Limit (dBm) | DG (dBi) | Pass /Fail |
| | | | | | | Ant E | Ant H | Ant F | Ant G | SUM | Ant E + H + F + G | Ant E + H + F + G | |
| HE20 | MCS0 | 4 | 100 | 5500 | Full | 16.80 | 16.58 | 16.94 | 16.37 | 22.70 | 23.98 | 2.90 | Pass |
| HE20 | MCS0 | 4 | 116 | 5580 | Full | 17.02 | 16.37 | 17.23 | 16.52 | 22.82 | 23.98 | 2.90 | Pass |
| HE20 | MCS0 | 4 | 140 | 5700 | Full | 16.79 | 16.19 | 17.04 | 16.40 | 22.64 | 23.98 | 2.90 | Pass |
| HE40 | MCS0 | 4 | 102 | 5510 | Full | 17.76 | 17.39 | 18.16 | 17.14 | 23.65 | 23.98 | 2.90 | Pass |
| HE40 | MCS0 | 4 | 110 | 5550 | Full | 17.75 | 17.28 | 18.08 | 17.17 | 23.61 | 23.98 | 2.90 | Pass |
| HE40 | MCS0 | 4 | 134 | 5670 | Full | 18.12 | 17.48 | 18.20 | 17.56 | 23.87 | 23.98 | 2.90 | Pass |
| HE80 | MCS0 | 4 | 106 | 5530 | Full | 17.77 | 17.31 | 17.96 | 16.99 | 23.54 | 23.98 | 2.90 | Pass |
| HE80 | MCS0 | 4 | 122 | 5610 | Full | 17.66 | 17.47 | 18.10 | 17.27 | 23.66 | 23.98 | 2.90 | Pass |
| HE160 | MCS0 | 4 | 114 | 5570 | Full | 17.30 | 16.60 | 17.40 | 16.80 | 23.06 | 23.98 | 2.90 | Pass |

| FCC UNII-2c MIMO 4Tx Mode Ant E + H + F + G | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | RU Config. | Average Conducted Power (dB) | | | | | FCC Power Limit (dBm) | DG (dBi) | Pass /Fail |
| | | | | | | Ant E | Ant H | Ant F | Ant G | SUM | Ant E + H + F + G | Ant E + H + F + G | |
| HE20 | MCS0 | 4 | 144 | 5720 | Full | 16.82 | 16.37 | 16.84 | 16.29 | 22.61 | 23.10 | 2.90 | Pass |
| HE40 | MCS0 | 4 | 142 | 5710 | Full | 18.10 | 17.50 | 18.31 | 17.68 | 23.93 | 23.98 | 2.90 | Pass |
| HE80 | MCS0 | 4 | 138 | 5690 | Full | 18.19 | 17.58 | 18.21 | 17.70 | 23.95 | 23.98 | 2.90 | Pass |

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =$G_{MAX}$ + Array Gain = 2.9 dBi + 0 dB = 2.9 dBi
Array Gain = 0 dBi for Nant <= 4 in CDD mode.

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

| FCC UNII-2c MIMO 4Tx Mode Ant E + H + F + G | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | RU Config. | Average PSD with Duty Factor (dBm/MHz) | PSD Limit (dBm/ MHz) | DG (dBi) (see note.1) | Pass /Fail |
| | | | | | | Ant E + H + F + G | Ant E + H + F + G | Ant E + H + F + G | |
| HE20 | MCS0 | 4 | 100 | 5500 | Full | 10.96 | 11.00 | 5.91 | Pass |
| HE20 | MCS0 | 4 | 116 | 5580 | Full | 10.90 | 11.00 | 5.91 | Pass |
| HE20 | MCS0 | 4 | 140 | 5700 | Full | 10.80 | 11.00 | 5.91 | Pass |
| HE40 | MCS0 | 4 | 102 | 5510 | Full | 9.11 | 11.00 | 5.91 | Pass |
| HE40 | MCS0 | 4 | 110 | 5550 | Full | 8.98 | 11.00 | 5.91 | Pass |
| HE40 | MCS0 | 4 | 134 | 5670 | Full | 9.17 | 11.00 | 5.91 | Pass |
| HE80 | MCS0 | 4 | 106 | 5530 | Full | 6.07 | 11.00 | 5.91 | Pass |
| HE80 | MCS0 | 4 | 122 | 5610 | Full | 6.19 | 11.00 | 5.91 | Pass |
| HE160 | MCS0 | 4 | 114 | 5570 | Full | 2.53 | 11.00 | 5.91 | Pass |

| FCC UNII-2c Straddle Channel MIMO 4Tx Mode Ant E + H + F + G | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | RU Config. | Average PSD with Duty Factor (dBm/MHz) | PSD Limit (dBm/ MHz) | DG (dBi) | Pass /Fail |
| | | | | | | Ant E + H + F + G | Ant E + H + F + G | Ant E + H + F + G | |
| HE20 | MCS0 | 4 | 144 | 5720 | Full | 10.85 | 11.00 | 5.91 | Pass |
| HE40 | MCS0 | 4 | 142 | 5710 | Full | 9.30 | 11.00 | 5.91 | Pass |
| HE80 | MCS0 | 4 | 138 | 5690 | Full | 6.30 | 11.00 | 5.91 | Pass |

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =$G_{MAX}$ + Array Gain = 2.9dBi + 3.01 dB= 5.91dBi
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

**<TXBF>**

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

| FCC UNII-2c Beamforming Mode Ant E + H + F + G | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Average Conducted Power (dB) | | | | | FCC Power Limit (dBm) | DG (dBi) | Pass /Fail |
| | | | | | Ant E | Ant H | Ant F | Ant G | SUM | Ant E + H + F + G | Ant E + H + F + G | |
| 11a | 6Mbps | 4 | 100 | 5500 | 15.29 | 14.96 | 15.44 | 14.69 | 21.13 | 23.98 | 5.91 | Pass |
| 11a | 6Mbps | 4 | 116 | 5580 | 15.66 | 15.13 | 15.86 | 15.15 | 21.48 | 23.98 | 5.91 | Pass |
| 11a | 6Mbps | 4 | 140 | 5700 | 15.91 | 15.58 | 16.28 | 15.70 | 21.90 | 23.98 | 5.91 | Pass |
| HT20 | MCS0 | 4 | 100 | 5500 | 16.80 | 16.39 | 16.72 | 16.23 | 22.56 | 23.98 | 5.91 | Pass |
| HT20 | MCS0 | 4 | 116 | 5580 | 16.86 | 16.31 | 17.11 | 16.32 | 22.68 | 23.98 | 5.91 | Pass |
| HT20 | MCS0 | 4 | 140 | 5700 | 16.65 | 16.11 | 16.82 | 16.20 | 22.48 | 23.98 | 5.91 | Pass |
| HT40 | MCS0 | 4 | 102 | 5510 | 17.82 | 17.40 | 18.00 | 17.20 | 23.64 | 23.98 | 5.91 | Pass |
| HT40 | MCS0 | 4 | 110 | 5550 | 17.80 | 17.20 | 18.00 | 17.20 | 23.59 | 23.98 | 5.91 | Pass |
| HT40 | MCS0 | 4 | 134 | 5670 | 18.10 | 17.40 | 18.15 | 17.65 | 23.86 | 23.98 | 5.91 | Pass |
| VHT20 | MCS0 | 4 | 100 | 5500 | 16.74 | 16.44 | 16.80 | 16.27 | 22.59 | 23.98 | 5.91 | Pass |
| VHT20 | MCS0 | 4 | 116 | 5580 | 16.96 | 16.34 | 17.02 | 16.34 | 22.70 | 23.98 | 5.91 | Pass |
| VHT20 | MCS0 | 4 | 140 | 5700 | 16.67 | 16.12 | 16.86 | 16.26 | 22.51 | 23.98 | 5.91 | Pass |
| VHT40 | MCS0 | 4 | 102 | 5510 | 17.75 | 17.45 | 18.05 | 17.20 | 23.64 | 23.98 | 5.91 | Pass |
| VHT40 | MCS0 | 4 | 110 | 5550 | 17.82 | 17.25 | 18.01 | 17.20 | 23.60 | 23.98 | 5.91 | Pass |
| VHT40 | MCS0 | 4 | 134 | 5670 | 18.10 | 17.35 | 18.20 | 17.55 | 23.84 | 23.98 | 5.91 | Pass |
| VHT80 | MCS0 | 4 | 106 | 5530 | 17.71 | 17.27 | 17.93 | 16.99 | 23.51 | 23.98 | 5.91 | Pass |
| VHT80 | MCS0 | 4 | 122 | 5610 | 17.66 | 17.50 | 17.98 | 17.25 | 23.63 | 23.98 | 5.91 | Pass |
| VHT160 | MCS0 | 4 | 114 | 5570 | 17.20 | 16.60 | 17.30 | 16.50 | 22.93 | 23.98 | 5.91 | Pass |

| FCC UNII-2c Straddle Channel Beamforming Mode Ant E + H + F + G | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Average Conducted Power (dB) | | | | | FCC Power Limit (dBm) | DG (dBi) | Pass /Fail |
| | | | | | Ant E | Ant H | Ant F | Ant G | SUM | Ant E + H + F + G | Ant E + H + F + G | |
| 11a | 6Mbps | 4 | 144 | 5720 | 16.23 | 15.56 | 16.13 | 15.51 | 21.89 | 22.86 | 5.91 | Pass |
| HT20 | MCS0 | 4 | 144 | 5720 | 16.65 | 16.16 | 16.79 | 16.13 | 22.46 | 23.98 | 5.91 | Pass |
| HT40 | MCS0 | 4 | 142 | 5710 | 18.09 | 17.52 | 18.24 | 17.70 | 23.92 | 23.98 | 5.91 | Pass |
| VHT20 | MCS0 | 4 | 144 | 5720 | 16.76 | 16.25 | 16.74 | 16.07 | 22.49 | 23.98 | 5.91 | Pass |
| VHT40 | MCS0 | 4 | 142 | 5710 | 18.05 | 17.50 | 18.30 | 17.60 | 23.90 | 23.98 | 5.91 | Pass |
| VHT80 | MCS0 | 4 | 138 | 5690 | 18.10 | 17.50 | 18.20 | 17.70 | 23.90 | 23.98 | 5.91 | Pass |

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =$G_{MAX}$ + Array Gain = 2.9 dBi + 3.01 dB = 5.91 dBi
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

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

| FCC UNII-2c Beamforming Mode Ant E + H + F + G | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MO 2Tx | Data Rate | NTX | CH. | Freq. (MHz) | RU Config. | Average Conducted Power (dB) | | | | | FCC Power Limit (dBm) | DG (dBi) | Pass /Fail |
| | | | | | | Ant E | Ant H | Ant F | Ant G | SUM | Ant E + H + F + G | Ant E + H + F + G | |
| HE20 | MCS0 | 4 | 100 | 5500 | Full | 16.80 | 16.58 | 16.94 | 16.37 | 22.70 | 23.98 | 5.91 | Pass |
| HE20 | MCS0 | 4 | 116 | 5580 | Full | 17.02 | 16.37 | 17.23 | 16.52 | 22.82 | 23.98 | 5.91 | Pass |
| HE20 | MCS0 | 4 | 140 | 5700 | Full | 16.79 | 16.19 | 17.04 | 16.40 | 22.64 | 23.98 | 5.91 | Pass |
| HE40 | MCS0 | 4 | 102 | 5510 | Full | 17.76 | 17.39 | 18.16 | 17.14 | 23.65 | 23.98 | 5.91 | Pass |
| HE40 | MCS0 | 4 | 110 | 5550 | Full | 17.75 | 17.28 | 18.08 | 17.17 | 23.61 | 23.98 | 5.91 | Pass |
| HE40 | MCS0 | 4 | 134 | 5670 | Full | 18.12 | 17.48 | 18.20 | 17.56 | 23.87 | 23.98 | 5.91 | Pass |
| HE80 | MCS0 | 4 | 106 | 5530 | Full | 17.77 | 17.31 | 17.96 | 16.99 | 23.54 | 23.98 | 5.91 | Pass |
| HE80 | MCS0 | 4 | 122 | 5610 | Full | 17.66 | 17.47 | 18.10 | 17.27 | 23.66 | 23.98 | 5.91 | Pass |
| HE160 | MCS0 | 4 | 114 | 5570 | Full | 17.30 | 16.60 | 17.40 | 16.80 | 23.06 | 23.98 | 5.91 | Pass |

| FCC UNII-2c Beamforming Mode Ant E + H + F + G | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | RU Config. | Average Conducted Power (dB) | | | | | FCC Power Limit (dBm) | DG (dBi) | Pass /Fail |
| | | | | | | Ant E | Ant H | Ant F | Ant G | SUM | Ant E + H + F + G | Ant E + H + F + G | |
| HE20 | MCS0 | 4 | 144 | 5720 | Full | 16.82 | 16.37 | 16.84 | 16.29 | 22.61 | 23.10 | 5.91 | Pass |
| HE40 | MCS0 | 4 | 142 | 5710 | Full | 18.10 | 17.50 | 18.31 | 17.68 | 23.93 | 23.98 | 5.91 | Pass |
| HE80 | MCS0 | 4 | 138 | 5690 | Full | 18.19 | 17.58 | 18.21 | 17.70 | 23.95 | 23.98 | 5.91 | Pass |

Note 1: The device has 4 antennas, each of which has one of two polarizations that are orthogonal to one another.
Each polarization has 2 antenna

Note 2: Directional Gain =$G_{MAX}$ + Array Gain = 2.9 dBi + 3.01 dB= 5.91 dBi
Array Gain = 10*log(Nant/Nss)= 10*log(2/1) = 3.01 dB ; Nant=2 and Nss=1

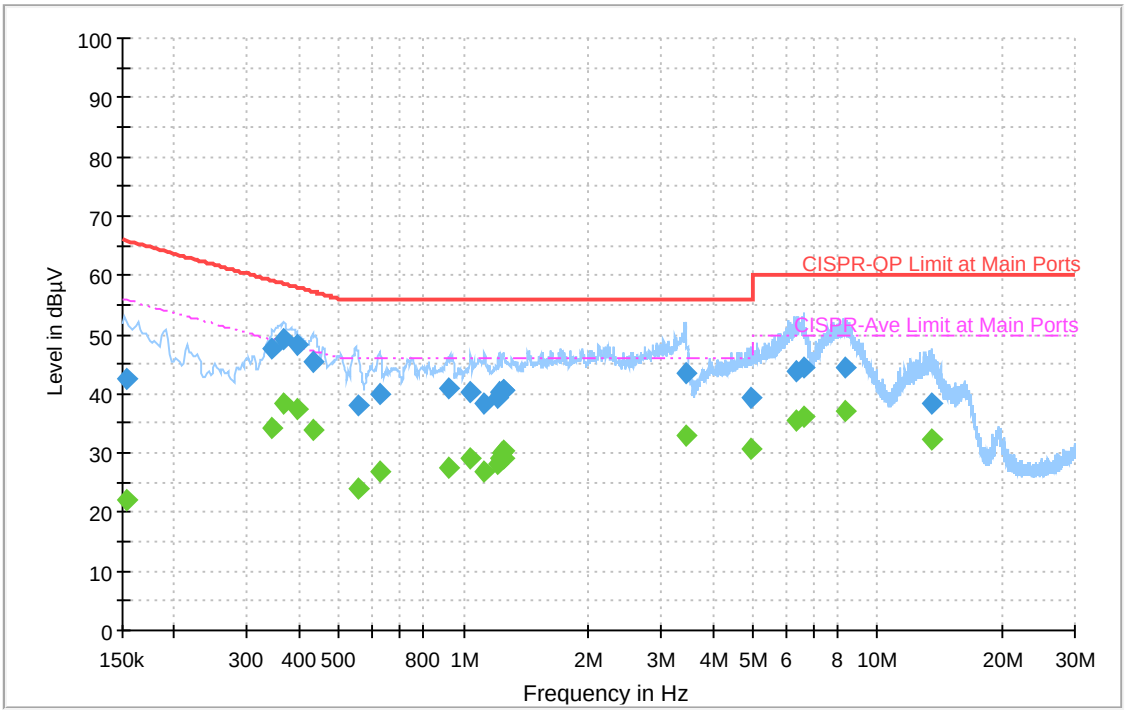
# Appendix B. AC Conducted Emission Test Results

| | | | |
|---|---|---|---|
| **Test Engineer :** | Paul Lin | **Temperature :** | 18~21℃ |
| | | **Relative Humidity :** | 42~45% |

# EUT Information

| | |
|---|---|
| Test Site Location : | CO01-CA |
| Power: | 120Vac/60Hz |
| Mode: | 1 |
| Type: | Line |

Full Spectrum




# Final_Result

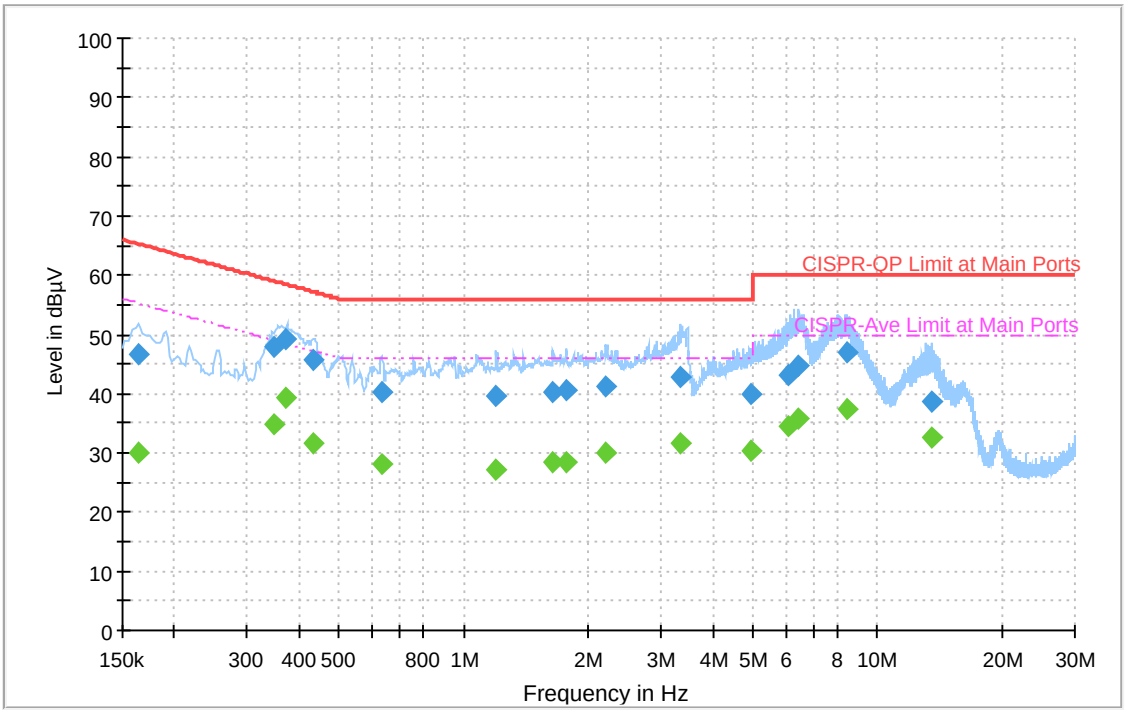
| Frequency (MHz) | QuasiPeak (dBµV) | CAverage (dBµV) | Limit (dBµV) | Margin (dB) | Line | Filter | Corr. (dB) |
|---|---|---|---|---|---|---|---|
| 0.152842 | --- | 22.07 | 55.84 | 33.77 | L1 | OFF | 20.3 |
| 0.152842 | 42.47 | --- | 65.84 | 23.37 | L1 | OFF | 20.3 |
| 0.344679 | --- | 34.08 | 49.09 | 15.01 | L1 | OFF | 20.3 |
| 0.344679 | 47.68 | --- | 59.09 | 11.41 | L1 | OFF | 20.3 |
| 0.368988 | --- | 38.28 | 48.52 | 10.24 | L1 | OFF | 20.3 |
| 0.368988 | 49.25 | --- | 58.52 | 9.27 | L1 | OFF | 20.3 |
| 0.395673 | --- | 37.35 | 47.94 | 10.59 | L1 | OFF | 20.3 |
| 0.395673 | 48.33 | --- | 57.94 | 9.61 | L1 | OFF | 20.3 |
| 0.431682 | --- | 33.88 | 47.22 | 13.34 | L1 | OFF | 20.3 |
| 0.431682 | 45.30 | --- | 57.22 | 11.92 | L1 | OFF | 20.3 |
| 0.554001 | --- | 24.08 | 46.00 | 21.92 | L1 | OFF | 20.3 |
| 0.554001 | 37.99 | --- | 56.00 | 18.01 | L1 | OFF | 20.3 |
| 0.624975 | --- | 26.87 | 46.00 | 19.13 | L1 | OFF | 20.3 |
| 0.624975 | 39.81 | --- | 56.00 | 16.19 | L1 | OFF | 20.3 |
| 0.921750 | --- | 27.42 | 46.00 | 18.58 | L1 | OFF | 20.3 |
| 0.921750 | 40.99 | --- | 56.00 | 15.01 | L1 | OFF | 20.3 |
| 1.037688 | --- | 29.05 | 46.00 | 16.95 | L1 | OFF | 20.3 |
| 1.037688 | 40.23 | --- | 56.00 | 15.77 | L1 | OFF | 20.3 |
| 1.120443 | --- | 26.86 | 46.00 | 19.14 | L1 | OFF | 20.3 |
| 1.120443 | 38.19 | --- | 56.00 | 17.81 | L1 | OFF | 20.3 |
| 1.212459 | --- | 28.21 | 46.00 | 17.79 | L1 | OFF | 20.3 |

| Frequency (MHz) | QuasiPeak (dBµV) | CAverage (dBµV) | Limit (dBµV) | Margin (dB) | Line | Filter | Corr. (dB) |
|---|---|---|---|---|---|---|---|
| 1.212459 | 39.44 | --- | 56.00 | 16.56 | L1 | OFF | 20.3 |
| 1.226589 | --- | 28.92 | 46.00 | 17.08 | L1 | OFF | 20.3 |
| 1.226589 | 40.12 | --- | 56.00 | 15.88 | L1 | OFF | 20.3 |
| 1.236498 | --- | 29.92 | 46.00 | 16.08 | L1 | OFF | 20.3 |
| 1.236498 | 40.32 | --- | 56.00 | 15.68 | L1 | OFF | 20.3 |
| 1.244814 | --- | 30.43 | 46.00 | 15.57 | L1 | OFF | 20.3 |
| 1.244814 | 40.65 | --- | 56.00 | 15.35 | L1 | OFF | 20.3 |
| 1.244904 | --- | 29.20 | 46.00 | 16.80 | L1 | OFF | 20.3 |
| 1.244904 | 40.50 | --- | 56.00 | 15.50 | L1 | OFF | 20.3 |
| 3.431787 | --- | 32.95 | 46.00 | 13.05 | L1 | OFF | 20.4 |
| 3.431787 | 43.40 | --- | 56.00 | 12.60 | L1 | OFF | 20.4 |
| 4.930359 | --- | 30.75 | 46.00 | 15.25 | L1 | OFF | 20.4 |
| 4.930359 | 39.17 | --- | 56.00 | 16.83 | L1 | OFF | 20.4 |
| 6.328041 | --- | 35.54 | 50.00 | 14.46 | L1 | OFF | 20.4 |
| 6.328041 | 43.91 | --- | 60.00 | 16.09 | L1 | OFF | 20.4 |
| 6.612828 | --- | 36.14 | 50.00 | 13.86 | L1 | OFF | 20.4 |
| 6.612828 | 44.35 | --- | 60.00 | 15.65 | L1 | OFF | 20.4 |
| 8.328966 | --- | 36.93 | 50.00 | 13.07 | L1 | OFF | 20.5 |
| 8.328966 | 44.33 | --- | 60.00 | 15.67 | L1 | OFF | 20.5 |
| 13.504650 | --- | 32.27 | 50.00 | 17.73 | L1 | OFF | 20.5 |
| 13.504650 | 38.47 | --- | 60.00 | 21.53 | L1 | OFF | 20.5 |

# EUT Information

| | |
|---|---|
| Test Site Location : | CO01-CA |
| Power: | 120Vac/60Hz |
| Mode: | 1 |
| Type: | Neutral |

Full Spectrum




# Final_Result

| Frequency (MHz) | QuasiPeak (dBµV) | CAverage (dBµV) | Limit (dBµV) | Margin (dB) | Line | Filter | Corr. (dB) |
|---|---|---|---|---|---|---|---|
| 0.164013 | --- | 30.02 | 55.26 | 25.24 | N | OFF | 20.2 |
| 0.164013 | 46.57 | --- | 65.26 | 18.69 | N | OFF | 20.2 |
| 0.346686 | --- | 34.68 | 49.04 | 14.36 | N | OFF | 20.3 |
| 0.346686 | 47.93 | --- | 59.04 | 11.11 | N | OFF | 20.3 |
| 0.371220 | --- | 39.19 | 48.47 | 9.28 | N | OFF | 20.3 |
| 0.371220 | 49.18 | --- | 58.47 | 9.29 | N | OFF | 20.3 |
| 0.431466 | --- | 31.61 | 47.22 | 15.61 | N | OFF | 20.3 |
| 0.431466 | 45.58 | --- | 57.22 | 11.64 | N | OFF | 20.3 |
| 0.634965 | --- | 28.24 | 46.00 | 17.76 | N | OFF | 20.3 |
| 0.634965 | 40.28 | --- | 56.00 | 15.72 | N | OFF | 20.3 |
| 1.201767 | --- | 27.19 | 46.00 | 18.81 | N | OFF | 20.3 |
| 1.201767 | 39.64 | --- | 56.00 | 16.36 | N | OFF | 20.3 |
| 1.643937 | --- | 28.28 | 46.00 | 17.72 | N | OFF | 20.3 |
| 1.643937 | 40.41 | --- | 56.00 | 15.59 | N | OFF | 20.3 |
| 1.769316 | --- | 28.56 | 46.00 | 17.44 | N | OFF | 20.3 |
| 1.769316 | 40.70 | --- | 56.00 | 15.30 | N | OFF | 20.3 |
| 2.210307 | --- | 29.92 | 46.00 | 16.08 | N | OFF | 20.3 |
| 2.210307 | 41.21 | --- | 56.00 | 14.79 | N | OFF | 20.3 |
| 3.341571 | --- | 31.60 | 46.00 | 14.40 | N | OFF | 20.3 |
| 3.341571 | 42.83 | --- | 56.00 | 13.17 | N | OFF | 20.3 |
| 4.944102 | --- | 30.33 | 46.00 | 15.67 | N | OFF | 20.4 |

| Frequency (MHz) | QuasiPeak (dBµV) | CAverage (dBµV) | Limit (dBµV) | Margin (dB) | Line | Filter | Corr. (dB) |
|---|---|---|---|---|---|---|---|
| 4.944102 | 39.82 | --- | 56.00 | 16.18 | N | OFF | 20.4 |
| 6.084978 | --- | 34.41 | 50.00 | 15.59 | N | OFF | 20.4 |
| 6.084978 | 43.29 | --- | 60.00 | 16.71 | N | OFF | 20.4 |
| 6.428850 | --- | 35.93 | 50.00 | 14.07 | N | OFF | 20.4 |
| 6.428850 | 44.78 | --- | 60.00 | 15.22 | N | OFF | 20.4 |
| 8.447487 | --- | 37.29 | 50.00 | 12.71 | N | OFF | 20.4 |
| 8.447487 | 46.85 | --- | 60.00 | 13.15 | N | OFF | 20.4 |
| 13.513740 | --- | 32.58 | 50.00 | 17.42 | N | OFF | 20.5 |
| 13.513740 | 38.75 | --- | 60.00 | 21.25 | N | OFF | 20.5 |

# Appendix C. Radiated Spurious Emission

| Test Engineer : | Michael Bui, Daniel Lee | Temperature : | 20~23°C |
|---|---|---|---|
| | | Relative Humidity : | 40~43% |

**<Radio 1>**

**UNII-1 - 5150~5250MHz**

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

| WIFI | Note | Frequency | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Path Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ( MHz ) | ( dBµV/m ) | ( dB ) | ( dBµV/m ) | (dBµV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11a CH 36 5180MHz | | 5148.2 | 61.43 | -12.57 | 74 | 48.32 | 31.99 | 11.19 | 30.07 | 264 | 163 | P | H |
| | | 5146.9 | 51.28 | -2.72 | 54 | 38.17 | 31.99 | 11.19 | 30.07 | 264 | 163 | A | H |
| | * | 5180 | 120.65 | - | - | 107.72 | 31.77 | 11.23 | 30.07 | 264 | 163 | P | H |
| | * | 5180 | 112.13 | - | - | 99.2 | 31.77 | 11.23 | 30.07 | 264 | 163 | A | H |
| | | | | | | | | | | | | | |
| | | 5149.5 | 63.59 | -10.41 | 74 | 50.43 | 32.04 | 11.19 | 30.07 | 268 | 334 | P | V |
| | | 5149.76 | 52.93 | -1.07 | 54 | 39.77 | 32.04 | 11.19 | 30.07 | 268 | 334 | P | V |
| | * | 5180 | 122.34 | - | - | 109.29 | 31.89 | 11.23 | 30.07 | 268 | 334 | P | V |
| | * | 5180 | 114.23 | - | - | 101.18 | 31.89 | 11.23 | 30.07 | 268 | 334 | A | V |
| | | | | | | | | | | | | | |
| 802.11a CH 44 5220MHz | | 5130 | 54.09 | -19.91 | 74 | 40.96 | 32.03 | 11.17 | 30.07 | 268 | 168 | P | H |
| | | 5126.88 | 46.29 | -7.71 | 54 | 33.16 | 32.04 | 11.16 | 30.07 | 268 | 168 | A | H |
| | * | 5220 | 121.06 | - | - | 108.3 | 31.54 | 11.28 | 30.06 | 268 | 168 | P | H |
| | * | 5220 | 113.52 | - | - | 100.76 | 31.54 | 11.28 | 30.06 | 268 | 168 | A | H |
| | | 5384.4 | 54.59 | -19.41 | 74 | 41.53 | 31.71 | 11.42 | 30.07 | 268 | 168 | P | H |
| | | 5409.88 | 47.43 | -6.57 | 54 | 34.23 | 31.83 | 11.44 | 30.07 | 268 | 168 | A | H |
| | | 5122.98 | 54.67 | -19.33 | 74 | 41.49 | 32.1 | 11.16 | 30.08 | 284 | 177 | P | V |
| | | 5109.98 | 46.19 | -7.81 | 54 | 33 | 32.13 | 11.14 | 30.08 | 284 | 177 | A | V |
| | * | 5220 | 118.94 | - | - | 106.01 | 31.71 | 11.28 | 30.06 | 284 | 177 | P | V |
| | * | 5220 | 111.56 | - | - | 98.63 | 31.71 | 11.28 | 30.06 | 284 | 177 | A | V |
| | | 5407.92 | 54.81 | -19.19 | 74 | 41.64 | 31.8 | 11.44 | 30.07 | 284 | 177 | P | V |
| | | 5350.24 | 47.96 | -6.04 | 54 | 35.09 | 31.54 | 11.4 | 30.07 | 284 | 177 | A | V |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **802.11a CH 48 5240MHz** | | 5135.72 | 55.01 | -18.99 | 74 | 41.88 | 32.02 | 11.18 | 30.07 | 266 | 45 | P | H |
| | | 5149.24 | 47.83 | -6.17 | 54 | 34.73 | 31.98 | 11.19 | 30.07 | 266 | 45 | A | H |
| | * | 5240 | 123.77 | - | - | 111.08 | 31.44 | 11.3 | 30.05 | 266 | 45 | P | H |
| | * | 5240 | 114.87 | - | - | 102.18 | 31.44 | 11.3 | 30.05 | 266 | 45 | A | H |
| | | 5353.04 | 54.87 | -19.13 | 74 | 41.98 | 31.56 | 11.4 | 30.07 | 266 | 45 | P | H |
| | | 5349.96 | 45.83 | -104.17 | 150 | 32.96 | 31.54 | 11.4 | 30.07 | 266 | 45 | A | H |
| | | 5137.8 | 55.75 | -18.25 | 74 | 42.58 | 32.06 | 11.18 | 30.07 | 289 | 336 | P | V |
| | | 5145.6 | 46.77 | -7.23 | 54 | 33.6 | 32.05 | 11.19 | 30.07 | 289 | 336 | A | V |
| | * | 5240 | 124.06 | - | - | 111.17 | 31.64 | 11.3 | 30.05 | 289 | 336 | P | V |
| | * | 5240 | 115.39 | - | - | 102.5 | 31.64 | 11.3 | 30.05 | 289 | 336 | A | V |
| | | 5372.36 | 61.01 | -12.99 | 74 | 48.03 | 31.64 | 11.41 | 30.07 | 289 | 336 | P | V |
| | | 5370.68 | 46.89 | -7.11 | 54 | 33.92 | 31.63 | 11.41 | 30.07 | 289 | 336 | A | V |
| Remark | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## UNII-1 5150~5250MHz

## WIFI 802.11a (Harmonic @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11a CH 36 5180MHz | | 10360 | 51.64 | -16.56 | 68.2 | 64.35 | 39.41 | 16.63 | 68.75 | - | - | P | H |
| | | 11312 | 50.04 | -23.96 | 74 | 60.55 | 39.79 | 17.45 | 67.75 | - | - | P | H |
| | | 11312 | 41.71 | -12.29 | 54 | 52.22 | 39.79 | 17.45 | 67.75 | - | - | A | H |
| | | 13369 | 51.05 | -22.95 | 74 | 59.95 | 39.56 | 19.23 | 67.69 | - | - | P | H |
| | | 13369 | 43.07 | -10.93 | 54 | 51.97 | 39.56 | 19.23 | 67.69 | - | - | A | H |
| | | 14491 | 52.29 | -21.71 | 74 | 58.05 | 41.94 | 20.04 | 67.74 | - | - | P | H |
| | | 14491 | 43.81 | -10.19 | 54 | 49.57 | 41.94 | 20.04 | 67.74 | - | - | A | H |
| | | 15540 | 47.92 | -26.08 | 74 | 57.83 | 38.19 | 20.71 | 68.81 | - | - | P | H |
| | | 17989 | 60.37 | -13.63 | 74 | 58.26 | 48.53 | 23 | 69.42 | - | - | P | H |
| | | 17989 | 50.27 | -3.73 | 54 | 48.16 | 48.53 | 23 | 69.42 | - | - | A | H |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | 10360 | 53.43 | -14.77 | 68.2 | 66.22 | 39.33 | 16.63 | 68.75 | - | - | P | V |
| | | 11268 | 50.22 | -23.78 | 74 | 60.95 | 39.65 | 17.41 | 67.79 | - | - | P | V |
| | | 11268 | 41.91 | -12.09 | 54 | 52.64 | 39.65 | 17.41 | 67.79 | - | - | A | V |
| | | 13259 | 50.62 | -23.38 | 74 | 60.04 | 39.19 | 19.14 | 67.75 | - | - | P | V |
| | | 13259 | 43 | -11 | 54 | 52.42 | 39.19 | 19.14 | 67.75 | - | - | A | V |
| | | 14491 | 52.82 | -21.18 | 74 | 58.57 | 41.95 | 20.04 | 67.74 | - | - | P | V |
| | | 14491 | 43.86 | -10.14 | 54 | 49.61 | 41.95 | 20.04 | 67.74 | - | - | A | V |
| | | 15540 | 47.23 | -26.77 | 74 | 57.04 | 38.29 | 20.71 | 68.81 | - | - | P | V |
| | | 17967 | 60.98 | -13.02 | 74 | 59.14 | 48.29 | 22.97 | 69.42 | - | - | P | V |
| | | 17967 | 50.71 | -3.29 | 54 | 48.87 | 48.29 | 22.97 | 69.42 | - | - | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 10440 | 50.66 | -17.54 | 68.2 | 63.06 | 39.6 | 16.7 | 68.7 | - | - | P | H |
| | | 11411 | 51.21 | -22.79 | 74 | 61.31 | 40.03 | 17.54 | 67.67 | - | - | P | H |
| | | 11411 | 42.29 | -11.71 | 54 | 52.39 | 40.03 | 17.54 | 67.67 | - | - | A | H |
| | | 13369 | 50.55 | -23.45 | 74 | 59.45 | 39.56 | 19.23 | 67.69 | - | - | P | H |
| | | 13369 | 43.07 | -10.93 | 54 | 51.97 | 39.56 | 19.23 | 67.69 | - | - | A | H |
| | | 14491 | 52.34 | -21.66 | 74 | 58.1 | 41.94 | 20.04 | 67.74 | - | - | P | H |
| | | 14491 | 43.69 | -10.31 | 54 | 49.45 | 41.94 | 20.04 | 67.74 | - | - | A | H |
| | | 15660 | 47.67 | -26.33 | 74 | 57.72 | 37.8 | 20.79 | 68.64 | - | - | P | H |
| | | 17989 | 60.68 | -13.32 | 74 | 58.57 | 48.53 | 23 | 69.42 | - | - | P | H |
| | | 17989 | 50.17 | -3.83 | 54 | 48.06 | 48.53 | 23 | 69.42 | - | - | A | H |
| | | | | | | | | | | | | | |
| **802.11a CH 44 5220MHz** | | | | | | | | | | | | | |
| | | 10440 | 52.41 | -15.79 | 68.2 | 64.84 | 39.57 | 16.7 | 68.7 | - | - | P | V |
| | | 11356 | 50.72 | -23.28 | 74 | 61.1 | 39.84 | 17.49 | 67.71 | - | - | P | V |
| | | 11356 | 41.65 | -12.35 | 54 | 52.03 | 39.84 | 17.49 | 67.71 | - | - | A | V |
| | | 13380 | 51.05 | -22.95 | 74 | 59.88 | 39.61 | 19.24 | 67.68 | - | - | P | V |
| | | 13380 | 42.94 | -11.06 | 54 | 51.77 | 39.61 | 19.24 | 67.68 | - | - | A | V |
| | | 14491 | 53.15 | -20.85 | 74 | 58.9 | 41.95 | 20.04 | 67.74 | - | - | P | V |
| | | 14491 | 42.34 | -11.66 | 54 | 48.09 | 41.95 | 20.04 | 67.74 | - | - | A | V |
| | | 15660 | 47.91 | -26.09 | 74 | 57.89 | 37.87 | 20.79 | 68.64 | - | - | P | V |
| | | 17945 | 60.76 | -13.24 | 74 | 59.44 | 47.79 | 22.95 | 69.42 | - | - | P | V |
| | | 17945 | 50.39 | -3.61 | 54 | 49.07 | 47.79 | 22.95 | 69.42 | - | - | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11a CH 48 5240MHz | | 10480 | 52.38 | -15.82 | 68.2 | 64.63 | 39.7 | 16.73 | 68.68 | - | - | P | H |
| | | 11422 | 50.49 | -23.51 | 74 | 60.55 | 40.05 | 17.55 | 67.66 | - | - | P | H |
| | | 11422 | 41.71 | -12.29 | 54 | 51.77 | 40.05 | 17.55 | 67.66 | - | - | A | H |
| | | 13292 | 50.4 | -23.6 | 74 | 59.67 | 39.29 | 19.17 | 67.73 | - | - | P | H |
| | | 13292 | 43.56 | -10.44 | 54 | 52.83 | 39.29 | 19.17 | 67.73 | - | - | A | H |
| | | 14491 | 52.13 | -21.87 | 74 | 57.89 | 41.94 | 20.04 | 67.74 | - | - | P | H |
| | | 14491 | 42.67 | -11.33 | 54 | 48.43 | 41.94 | 20.04 | 67.74 | - | - | A | H |
| | | 15720 | 49.52 | -24.48 | 74 | 59.63 | 37.62 | 20.83 | 68.56 | 210 | 227 | P | H |
| | | 15720 | 42.62 | -11.38 | 54 | 52.73 | 37.62 | 20.83 | 68.56 | 210 | 227 | A | H |
| | | 17989 | 60.64 | -13.36 | 74 | 58.53 | 48.53 | 23 | 69.42 | - | - | P | H |
| | | 17989 | 50.68 | -3.32 | 54 | 48.57 | 48.53 | 23 | 69.42 | - | - | A | H |
| | | | | | | | | | | | | | |
| | | 10480 | 52.01 | -16.19 | 68.2 | 64.32 | 39.64 | 16.73 | 68.68 | - | - | P | V |
| | | 11389 | 50.43 | -23.57 | 74 | 60.69 | 39.9 | 17.53 | 67.69 | - | - | P | V |
| | | 11389 | 42.78 | -11.22 | 54 | 53.04 | 39.9 | 17.53 | 67.69 | - | - | A | V |
| | | 13369 | 50.79 | -23.21 | 74 | 59.69 | 39.56 | 19.23 | 67.69 | - | - | P | V |
| | | 13369 | 43.54 | -10.46 | 54 | 52.44 | 39.56 | 19.23 | 67.69 | - | - | A | V |
| | | 14491 | 51.85 | -22.15 | 74 | 57.6 | 41.95 | 20.04 | 67.74 | - | - | P | V |
| | | 14491 | 46.01 | -7.99 | 54 | 51.76 | 41.95 | 20.04 | 67.74 | - | - | A | V |
| | | 15720 | 49.42 | -24.58 | 74 | 59.42 | 37.73 | 20.83 | 68.56 | 319 | 239 | P | V |
| | | 15720 | 41.36 | -12.64 | 54 | 51.36 | 37.73 | 20.83 | 68.56 | 319 | 239 | A | V |
| | | 17978 | 60.55 | -13.45 | 74 | 58.44 | 48.54 | 22.99 | 69.42 | - | - | P | V |
| | | 17978 | 50.62 | -3.38 | 54 | 48.51 | 48.54 | 22.99 | 69.42 | - | - | A | V |
| | | | | | | | | | | | | | |

**Remark**

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

## UNII-1 5150~5250MHz

## WIFI 802.11ax HE20 Full (Band Edge @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 5144.56 | 62.14 | -11.86 | 74 | 49.03 | 31.99 | 11.19 | 30.07 | 271 | 333 | P | H |
| | | 5143 | 51.08 | -2.92 | 54 | 37.96 | 32 | 11.19 | 30.07 | 271 | 333 | A | H |
| | * | 5180 | 119.82 | - | - | 106.89 | 31.77 | 11.23 | 30.07 | 271 | 333 | P | H |
| | * | 5180 | 110.98 | - | - | 98.05 | 31.77 | 11.23 | 30.07 | 271 | 333 | A | H |
| 802.11ax | | | | | | | | | | | | | |
| HE20 Full | | | | | | | | | | | | | |
| CH 36 | | 5146.38 | 63.3 | -10.7 | 74 | 50.14 | 32.04 | 11.19 | 30.07 | 287 | 333 | P | V |
| 5180MHz | | 5146.9 | 53.31 | -0.69 | 54 | 40.15 | 32.04 | 11.19 | 30.07 | 287 | 333 | A | V |
| | * | 5180 | 121 | - | - | 107.95 | 31.89 | 11.23 | 30.07 | 287 | 333 | P | V |
| | * | 5180 | 112.62 | - | - | 99.57 | 31.89 | 11.23 | 30.07 | 287 | 333 | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | 5125.58 | 54.65 | -19.35 | 74 | 41.52 | 32.04 | 11.16 | 30.07 | 301 | 12 | P | H |
| | | 5129.74 | 45.29 | -8.71 | 54 | 32.16 | 32.03 | 11.17 | 30.07 | 301 | 12 | A | H |
| | * | 5220 | 119.66 | - | - | 106.9 | 31.54 | 11.28 | 30.06 | 301 | 12 | P | H |
| | * | 5220 | 112.18 | - | - | 99.42 | 31.54 | 11.28 | 30.06 | 301 | 12 | A | H |
| 802.11ax | | 5439 | 54.01 | -19.99 | 74 | 40.67 | 31.95 | 11.47 | 30.08 | 301 | 12 | P | H |
| HE20 Full | | 5417.72 | 45.8 | -8.2 | 54 | 32.56 | 31.86 | 11.45 | 30.07 | 301 | 12 | A | H |
| CH 44 | | 5101.92 | 54.49 | -19.51 | 74 | 41.29 | 32.15 | 11.13 | 30.08 | 279 | 176 | P | V |
| 5220MHz | | 5147.94 | 44.72 | -9.28 | 54 | 31.56 | 32.04 | 11.19 | 30.07 | 279 | 176 | A | V |
| | * | 5220 | 118.72 | - | - | 105.79 | 31.71 | 11.28 | 30.06 | 279 | 176 | P | V |
| | * | 5220 | 110.46 | - | - | 97.53 | 31.71 | 11.28 | 30.06 | 279 | 176 | A | V |
| | | 5430.88 | 54.59 | -19.41 | 74 | 41.32 | 31.89 | 11.46 | 30.08 | 279 | 176 | P | V |
| | | 5410.16 | 45.28 | -8.72 | 54 | 32.1 | 31.81 | 11.44 | 30.07 | 279 | 176 | A | V |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 5149.5 | 54.75 | -19.25 | 74 | 41.65 | 31.98 | 11.19 | 30.07 | 297 | 17 | P | H |
| | | 5143 | 46.24 | -7.76 | 54 | 33.12 | 32 | 11.19 | 30.07 | 297 | 17 | A | H |
| | * | 5240 | 123.14 | - | - | 110.45 | 31.44 | 11.3 | 30.05 | 297 | 17 | P | H |
| | * | 5240 | 114.12 | - | - | 101.43 | 31.44 | 11.3 | 30.05 | 297 | 17 | A | H |
| **802.11ax** | | 5422.76 | 53.72 | -20.28 | 74 | 40.46 | 31.88 | 11.45 | 30.07 | 297 | 17 | P | H |
| **HE20 Full** | | 5381.04 | 44.56 | -9.44 | 54 | 31.52 | 31.69 | 11.42 | 30.07 | 297 | 17 | A | H |
| **CH 48** | | 5141.7 | 54.68 | -19.32 | 74 | 41.52 | 32.05 | 11.18 | 30.07 | 294 | 340 | P | V |
| **5240MHz** | | 5145.08 | 45.92 | -8.08 | 54 | 32.75 | 32.05 | 11.19 | 30.07 | 294 | 340 | A | V |
| | * | 5240 | 123.61 | - | - | 110.72 | 31.64 | 11.3 | 30.05 | 294 | 340 | P | V |
| | * | 5240 | 114.82 | - | - | 101.93 | 31.64 | 11.3 | 30.05 | 294 | 340 | A | V |
| | | 5365.36 | 53.82 | -20.18 | 74 | 40.87 | 31.61 | 11.41 | 30.07 | 294 | 340 | P | V |
| | | 5352.2 | 45.06 | -8.94 | 54 | 32.19 | 31.54 | 11.4 | 30.07 | 294 | 340 | A | V |

| | |
|---|---|
| Remark | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |

## UNII-1 5150~5250MHz

## WIFI 802.11ax HE20 Full (Harmonic @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 10360 | 49.62 | -18.58 | 68.2 | 62.33 | 39.41 | 16.63 | 68.75 | - | - | P | H |
| | | 11356 | 50.13 | -23.87 | 74 | 60.44 | 39.91 | 17.49 | 67.71 | - | - | P | H |
| | | 11356 | 42.42 | -11.58 | 54 | 52.73 | 39.91 | 17.49 | 67.71 | - | - | A | H |
| | | 13380 | 50.12 | -23.88 | 74 | 58.96 | 39.6 | 19.24 | 67.68 | - | - | P | H |
| | | 13380 | 43.36 | -10.64 | 54 | 52.2 | 39.6 | 19.24 | 67.68 | - | - | A | H |
| | | 14491 | 52.59 | -21.41 | 74 | 58.35 | 41.94 | 20.04 | 67.74 | - | - | P | H |
| | | 14491 | 43.36 | -10.64 | 54 | 49.12 | 41.94 | 20.04 | 67.74 | - | - | A | H |
| | | 15540 | 47.7 | -26.3 | 74 | 57.61 | 38.19 | 20.71 | 68.81 | - | - | P | H |
| | | 17967 | 60.95 | -13.05 | 74 | 59.44 | 47.96 | 22.97 | 69.42 | - | - | P | H |
| | | 17967 | 50.44 | -3.56 | 54 | 48.93 | 47.96 | 22.97 | 69.42 | - | - | A | H |
| **802.11ax** | | | | | | | | | | | | | |
| **HE20 Full** | | | | | | | | | | | | | |
| **CH 36** | | 10360 | 52.05 | -16.15 | 68.2 | 64.84 | 39.33 | 16.63 | 68.75 | - | - | P | V |
| **5180MHz** | | 11565 | 50.51 | -23.49 | 74 | 60.43 | 40.02 | 17.68 | 67.62 | - | - | P | V |
| | | 11565 | 43.17 | -10.83 | 54 | 53.09 | 40.02 | 17.68 | 67.62 | - | - | A | V |
| | | 13314 | 49.81 | -24.19 | 74 | 58.99 | 39.35 | 19.19 | 67.72 | - | - | P | V |
| | | 13314 | 43.56 | -10.44 | 54 | 52.74 | 39.35 | 19.19 | 67.72 | - | - | A | V |
| | | 14491 | 52.21 | -21.79 | 74 | 57.96 | 41.95 | 20.04 | 67.74 | - | - | P | V |
| | | 14491 | 43.98 | -10.02 | 54 | 49.73 | 41.95 | 20.04 | 67.74 | - | - | A | V |
| | | 15540 | 47.95 | -26.05 | 74 | 57.76 | 38.29 | 20.71 | 68.81 | - | - | P | V |
| | | 17967 | 60.46 | -13.54 | 74 | 58.62 | 48.29 | 22.97 | 69.42 | - | - | P | V |
| | | 17967 | 50.37 | -3.63 | 54 | 48.53 | 48.29 | 22.97 | 69.42 | - | - | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 10440 | 50.56 | -17.64 | 68.2 | 62.96 | 39.6 | 16.7 | 68.7 | - | - | P | H |
| | | 11367 | 50.19 | -23.81 | 74 | 60.45 | 39.94 | 17.5 | 67.7 | - | - | P | H |
| | | 11367 | 42.81 | -11.19 | 54 | 53.07 | 39.94 | 17.5 | 67.7 | - | - | A | H |
| | | 13292 | 51.15 | -22.85 | 74 | 60.42 | 39.29 | 19.17 | 67.73 | - | - | P | H |
| | | 13292 | 42.68 | -11.32 | 54 | 51.95 | 39.29 | 19.17 | 67.73 | - | - | A | H |
| | | 14491 | 52.31 | -21.69 | 74 | 58.07 | 41.94 | 20.04 | 67.74 | - | - | P | H |
| | | 14491 | 42.01 | -11.99 | 54 | 47.77 | 41.94 | 20.04 | 67.74 | - | - | A | H |
| | | 15660 | 49.45 | -24.55 | 74 | 59.5 | 37.8 | 20.79 | 68.64 | 187 | 243 | P | H |
| | | 15660 | 43.51 | -10.49 | 54 | 53.56 | 37.8 | 20.79 | 68.64 | 187 | 243 | A | H |
| | | 17989 | 60.51 | -13.49 | 74 | 58.4 | 48.53 | 23 | 69.42 | - | - | P | H |
| **802.11ax** | | 17989 | 50.19 | -3.81 | 54 | 48.08 | 48.53 | 23 | 69.42 | - | - | A | H |
| **HE20 Full** | | | | | | | | | | | | | |
| **CH 44** | | 10440 | 51.93 | -16.27 | 68.2 | 64.36 | 39.57 | 16.7 | 68.7 | - | - | P | V |
| **5220MHz** | | 10894 | 50.91 | -23.09 | 74 | 61.97 | 40.02 | 17.08 | 68.16 | - | - | P | V |
| | | 10894 | 42.25 | -11.75 | 54 | 53.31 | 40.02 | 17.08 | 68.16 | - | - | A | V |
| | | 13369 | 50.55 | -23.45 | 74 | 59.45 | 39.56 | 19.23 | 67.69 | - | - | P | V |
| | | 13369 | 43.19 | -10.81 | 54 | 52.09 | 39.56 | 19.23 | 67.69 | - | - | A | V |
| | | 14491 | 52.83 | -21.17 | 74 | 58.58 | 41.95 | 20.04 | 67.74 | - | - | P | V |
| | | 14491 | 43.3 | -10.7 | 54 | 49.05 | 41.95 | 20.04 | 67.74 | - | - | A | V |
| | | 15660 | 49.27 | -24.73 | 74 | 59.25 | 37.87 | 20.79 | 68.64 | 296 | 207 | P | V |
| | | 15660 | 42.47 | -11.53 | 54 | 52.45 | 37.87 | 20.79 | 68.64 | 296 | 207 | A | V |
| | | 17956 | 60.57 | -13.43 | 74 | 58.99 | 48.04 | 22.96 | 69.42 | - | - | P | V |
| | | 17956 | 49.93 | -4.07 | 54 | 48.35 | 48.04 | 22.96 | 69.42 | - | - | A | V |
| | | | | | | | | | | | | | |

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 10480 | 49.4 | -18.8 | 68.2 | 61.65 | 39.7 | 16.73 | 68.68 | - | - | P | H |
| | | 11466 | 50.7 | -23.3 | 74 | 60.6 | 40.13 | 17.59 | 67.62 | - | - | P | H |
| | | 11466 | 43.37 | -10.63 | 54 | 53.27 | 40.13 | 17.59 | 67.62 | - | - | A | H |
| | | 13347 | 51.43 | -22.57 | 74 | 60.42 | 39.5 | 19.21 | 67.7 | - | - | P | H |
| | | 13347 | 43.5 | -10.5 | 54 | 52.49 | 39.5 | 19.21 | 67.7 | - | - | A | H |
| | | 14491 | 52.23 | -21.77 | 74 | 57.99 | 41.94 | 20.04 | 67.74 | - | - | P | H |
| | | 14491 | 42.75 | -11.25 | 54 | 48.51 | 41.94 | 20.04 | 67.74 | - | - | A | H |
| | | 15720 | 47.76 | -26.24 | 74 | 57.87 | 37.62 | 20.83 | 68.56 | - | - | P | H |
| | | 17989 | 60.79 | -13.21 | 74 | 58.68 | 48.53 | 23 | 69.42 | - | - | P | H |
| | | 17989 | 50.64 | -3.36 | 54 | 48.53 | 48.53 | 23 | 69.42 | - | - | A | H |
| **802.11ax** | | | | | | | | | | | | | |
| **HE20 Full** | | | | | | | | | | | | | |
| **CH 48** | | 10480 | 51.55 | -16.65 | 68.2 | 63.86 | 39.64 | 16.73 | 68.68 | - | - | P | V |
| **5240MHz** | | 11488 | 50.45 | -23.55 | 74 | 60.36 | 40.08 | 17.61 | 67.6 | - | - | P | V |
| | | 11488 | 43.4 | -10.6 | 54 | 53.31 | 40.08 | 17.61 | 67.6 | - | - | A | V |
| | | 13292 | 51.14 | -22.86 | 74 | 60.42 | 39.28 | 19.17 | 67.73 | - | - | P | V |
| | | 13292 | 43.34 | -10.66 | 54 | 52.62 | 39.28 | 19.17 | 67.73 | - | - | A | V |
| | | 14491 | 52.59 | -21.41 | 74 | 58.34 | 41.95 | 20.04 | 67.74 | - | - | P | V |
| | | 14491 | 43.97 | -10.03 | 54 | 49.72 | 41.95 | 20.04 | 67.74 | - | - | A | V |
| | | 15720 | 47.91 | -26.09 | 74 | 57.91 | 37.73 | 20.83 | 68.56 | - | - | P | V |
| | | 18000 | 60.52 | -13.48 | 74 | 57.89 | 49.04 | 23.01 | 69.42 | - | - | P | V |
| | | 18000 | 50.54 | -3.46 | 54 | 47.91 | 49.04 | 23.01 | 69.42 | - | - | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

**Remark**

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

## UNII-1 5150~5250MHz

## WIFI 802.11ax HE40 Full (Band Edge @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11ax HE40 Full CH 38 5190MHz | | 5148.72 | 59.95 | -14.05 | 74 | 46.84 | 31.99 | 11.19 | 30.07 | 264 | 45 | P | H |
| | | 5149.5 | 52.88 | -1.12 | 54 | 39.78 | 31.98 | 11.19 | 30.07 | 264 | 45 | A | H |
| | * | 5190 | 115.38 | - | - | 102.49 | 31.71 | 11.25 | 30.07 | 264 | 45 | P | H |
| | * | 5190 | 107.18 | - | - | 94.29 | 31.71 | 11.25 | 30.07 | 264 | 45 | A | H |
| | | 5429.76 | 54.09 | -19.91 | 74 | 40.8 | 31.91 | 11.46 | 30.08 | 264 | 45 | P | H |
| | | 5382.72 | 45.17 | -8.83 | 54 | 32.12 | 31.7 | 11.42 | 30.07 | 264 | 45 | A | H |
| | | 5149.76 | 57.32 | -16.68 | 74 | 44.16 | 32.04 | 11.19 | 30.07 | 272 | 48 | P | V |
| | | 5149.5 | 48.56 | -5.44 | 54 | 35.4 | 32.04 | 11.19 | 30.07 | 272 | 48 | A | V |
| | * | 5190 | 111.05 | - | - | 98.03 | 31.84 | 11.25 | 30.07 | 272 | 48 | P | V |
| | * | 5190 | 102.71 | - | - | 89.69 | 31.84 | 11.25 | 30.07 | 272 | 48 | A | V |
| | | 5442.08 | 53.42 | -20.58 | 74 | 40.1 | 31.93 | 11.47 | 30.08 | 272 | 48 | P | V |
| | | 5384.68 | 44.95 | -9.05 | 54 | 31.9 | 31.7 | 11.42 | 30.07 | 272 | 48 | A | V |
| 802.11ax HE40 Full CH 46 5230MHz | | 5147.68 | 60.31 | -13.69 | 74 | 47.2 | 31.99 | 11.19 | 30.07 | 264 | 166 | P | H |
| | | 5149.5 | 52.77 | -1.23 | 54 | 39.67 | 31.98 | 11.19 | 30.07 | 264 | 166 | A | H |
| | * | 5230 | 118.13 | - | - | 105.41 | 31.49 | 11.29 | 30.06 | 264 | 166 | P | H |
| | * | 5230 | 110.72 | - | - | 98 | 31.49 | 11.29 | 30.06 | 264 | 166 | A | H |
| | | 5421.36 | 55.41 | -18.59 | 74 | 42.15 | 31.88 | 11.45 | 30.07 | 264 | 166 | P | H |
| | | 5351.08 | 47.15 | -6.85 | 54 | 34.27 | 31.55 | 11.4 | 30.07 | 264 | 166 | A | H |
| | | 5108.94 | 62.02 | -11.98 | 74 | 48.83 | 32.13 | 11.14 | 30.08 | 285 | 175 | P | V |
| | | 5150 | 49.72 | -4.28 | 54 | 36.57 | 32.03 | 11.19 | 30.07 | 285 | 175 | A | V |
| | * | 5230 | 117.51 | - | - | 104.61 | 31.67 | 11.29 | 30.06 | 285 | 175 | P | V |
| | * | 5230 | 108.72 | - | - | 95.82 | 31.67 | 11.29 | 30.06 | 285 | 175 | A | V |
| | | 5374.6 | 54.49 | -19.51 | 74 | 41.5 | 31.65 | 11.41 | 30.07 | 285 | 175 | P | V |
| | | 5350 | 46.31 | -7.69 | 54 | 33.45 | 31.53 | 11.4 | 30.07 | 285 | 175 | A | V |
| Remark | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## UNII-1 5150~5250MHz

## WIFI 802.11ax HE40 Full (Harmonic @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 10380 | 48.49 | -19.71 | 68.2 | 61.13 | 39.46 | 16.64 | 68.74 | - | - | P | H |
| | | 11257 | 50.76 | -23.24 | 74 | 61.43 | 39.73 | 17.4 | 67.8 | - | - | P | H |
| | | 11257 | 42.51 | -11.49 | 54 | 53.18 | 39.73 | 17.4 | 67.8 | - | - | A | H |
| | | 13380 | 50.16 | -23.84 | 74 | 59 | 39.6 | 19.24 | 67.68 | - | - | P | H |
| | | 13380 | 43.28 | -10.72 | 54 | 52.12 | 39.6 | 19.24 | 67.68 | - | - | A | H |
| | | 14491 | 52.57 | -21.43 | 74 | 58.33 | 41.94 | 20.04 | 67.74 | - | - | P | H |
| | | 14491 | 43.14 | -10.86 | 54 | 48.9 | 41.94 | 20.04 | 67.74 | - | - | A | H |
| | | 15570 | 47.9 | -26.1 | 74 | 57.86 | 38.08 | 20.73 | 68.77 | - | - | P | H |
| | | 17956 | 60.14 | -13.86 | 74 | 58.92 | 47.68 | 22.96 | 69.42 | - | - | P | H |
| | | 17956 | 50.3 | -3.7 | 54 | 49.08 | 47.68 | 22.96 | 69.42 | - | - | A | H |
| **802.11ax** | | | | | | | | | | | | | |
| **HE40 Full** | | | | | | | | | | | | | |
| **CH 38** | | 10380 | 50.49 | -17.71 | 68.2 | 63.18 | 39.41 | 16.64 | 68.74 | - | - | P | V |
| **5190MHz** | | 11488 | 50.4 | -23.6 | 74 | 60.31 | 40.08 | 17.61 | 67.6 | - | - | P | V |
| | | 11488 | 42.51 | -11.49 | 54 | 52.42 | 40.08 | 17.61 | 67.6 | - | - | A | V |
| | | 13325 | 50.51 | -23.49 | 74 | 59.64 | 39.39 | 19.2 | 67.72 | - | - | P | V |
| | | 13325 | 41.76 | -12.24 | 54 | 50.89 | 39.39 | 19.2 | 67.72 | - | - | A | V |
| | | 14491 | 52.34 | -21.66 | 74 | 58.09 | 41.95 | 20.04 | 67.74 | - | - | P | V |
| | | 14491 | 42.82 | -11.18 | 54 | 48.57 | 41.95 | 20.04 | 67.74 | - | - | A | V |
| | | 15570 | 47.11 | -26.89 | 74 | 56.97 | 38.18 | 20.73 | 68.77 | - | - | P | V |
| | | 17978 | 60.53 | -13.47 | 74 | 58.42 | 48.54 | 22.99 | 69.42 | - | - | P | V |
| | | 17978 | 50.19 | -3.81 | 54 | 48.08 | 48.54 | 22.99 | 69.42 | - | - | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 10460 | 48.55 | -19.65 | 68.2 | 60.88 | 39.65 | 16.71 | 68.69 | - | - | P | H |
| | | 11477 | 50.26 | -23.74 | 74 | 60.12 | 40.15 | 17.6 | 67.61 | - | - | P | H |
| | | 11477 | 41.17 | -12.83 | 54 | 51.03 | 40.15 | 17.6 | 67.61 | - | - | A | H |
| | | 13314 | 50.61 | -23.39 | 74 | 59.77 | 39.37 | 19.19 | 67.72 | - | - | P | H |
| | | 13314 | 42.37 | -11.63 | 54 | 51.53 | 39.37 | 19.19 | 67.72 | - | - | A | H |
| | | 14491 | 52.13 | -21.87 | 74 | 57.89 | 41.94 | 20.04 | 67.74 | - | - | P | H |
| | | 14491 | 42.3 | -11.7 | 54 | 48.06 | 41.94 | 20.04 | 67.74 | - | - | A | H |
| | | 15690 | 47.57 | -26.43 | 74 | 57.66 | 37.7 | 20.81 | 68.6 | - | - | P | H |
| | | 17989 | 59.96 | -14.04 | 74 | 57.85 | 48.53 | 23 | 69.42 | - | - | P | H |
| | | 17989 | 50.37 | -3.63 | 54 | 48.26 | 48.53 | 23 | 69.42 | - | - | A | H |
| **802.11ax** | | | | | | | | | | | | | |
| **HE40 Full** | | | | | | | | | | | | | |
| **CH 46** | | 10460 | 51.04 | -17.16 | 68.2 | 63.41 | 39.61 | 16.71 | 68.69 | - | - | P | V |
| **5230MHz** | | 10982 | 50.1 | -23.9 | 74 | 60.88 | 40.1 | 17.16 | 68.04 | - | - | P | V |
| | | 10982 | 41.88 | -12.12 | 54 | 52.66 | 40.1 | 17.16 | 68.04 | - | - | A | V |
| | | 13336 | 50.06 | -23.94 | 74 | 59.13 | 39.43 | 19.21 | 67.71 | - | - | P | V |
| | | 13336 | 42.39 | -11.61 | 54 | 51.46 | 39.43 | 19.21 | 67.71 | - | - | A | V |
| | | 14491 | 51.47 | -22.53 | 74 | 57.22 | 41.95 | 20.04 | 67.74 | - | - | P | V |
| | | 14491 | 43.44 | -10.56 | 54 | 49.19 | 41.95 | 20.04 | 67.74 | - | - | A | V |
| | | 15690 | 47.62 | -26.38 | 74 | 57.61 | 37.8 | 20.81 | 68.6 | - | - | P | V |
| | | 18000 | 60.72 | -13.28 | 74 | 58.09 | 49.04 | 23.01 | 69.42 | - | - | P | V |
| | | 18000 | 50.11 | -3.89 | 54 | 47.48 | 49.04 | 23.01 | 69.42 | - | - | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

**Remark**

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

## UNII-1 5150~5250MHz

## WIFI 802.11ax HE80 Full (Band Edge @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11ax HE80 Full CH 42 5210MHz | | 5148.46 | 61.8 | -12.2 | 74 | 48.69 | 31.99 | 11.19 | 30.07 | 278 | 166 | P | H |
| | | 5147.94 | 53.32 | -0.68 | 54 | 40.21 | 31.99 | 11.19 | 30.07 | 278 | 166 | A | H |
| | * | 5210 | 112.19 | - | - | 99.4 | 31.59 | 11.27 | 30.07 | 278 | 166 | P | H |
| | * | 5210 | 102.81 | - | - | 90.02 | 31.59 | 11.27 | 30.07 | 278 | 166 | A | H |
| | | 5409.6 | 55.5 | -18.5 | 74 | 42.31 | 31.82 | 11.44 | 30.07 | 278 | 166 | P | H |
| | | 5350.24 | 46.69 | -7.31 | 54 | 33.82 | 31.54 | 11.4 | 30.07 | 278 | 166 | A | H |
| | | 5140.14 | 57.45 | -16.55 | 74 | 44.28 | 32.06 | 11.18 | 30.07 | 306 | 173 | P | V |
| | | 5150 | 49.46 | -4.54 | 54 | 36.31 | 32.03 | 11.19 | 30.07 | 306 | 173 | A | V |
| | * | 5210 | 109.73 | - | - | 96.78 | 31.75 | 11.27 | 30.07 | 306 | 173 | P | V |
| | * | 5210 | 101.09 | - | - | 88.14 | 31.75 | 11.27 | 30.07 | 306 | 173 | A | V |
| | | 5428.64 | 54.11 | -19.89 | 74 | 40.85 | 31.88 | 11.46 | 30.08 | 306 | 173 | P | V |
| | | 5353.6 | 45.38 | -8.62 | 54 | 32.5 | 31.55 | 11.4 | 30.07 | 306 | 173 | A | V |
| Remark | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## UNII-1 5150~5250MHz

## WIFI 802.11ax HE80 Full (Harmonic @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 10420 | 47.98 | -20.22 | 68.2 | 60.45 | 39.55 | 16.69 | 68.71 | - | - | P | H |
| | | 10861 | 50.5 | -23.5 | 74 | 61.56 | 40.08 | 17.06 | 68.2 | - | - | P | H |
| | | 10861 | 41.38 | -12.62 | 54 | 52.44 | 40.08 | 17.06 | 68.2 | - | - | A | H |
| | | 13270 | 50.09 | -23.91 | 74 | 59.5 | 39.19 | 19.15 | 67.75 | - | - | P | H |
| | | 13270 | 42.67 | -11.33 | 54 | 52.08 | 39.19 | 19.15 | 67.75 | - | - | A | H |
| | | 14491 | 51.79 | -22.21 | 74 | 57.55 | 41.94 | 20.04 | 67.74 | - | - | P | H |
| | | 14491 | 43.26 | -10.74 | 54 | 49.02 | 41.94 | 20.04 | 67.74 | - | - | A | H |
| | | 15630 | 46.57 | -27.43 | 74 | 56.59 | 37.9 | 20.77 | 68.69 | - | - | P | H |
| | | 17989 | 60.77 | -13.23 | 74 | 58.66 | 48.53 | 23 | 69.42 | - | - | P | H |
| | | 17989 | 50.18 | -3.82 | 54 | 48.07 | 48.53 | 23 | 69.42 | - | - | A | H |
| **802.11ax** | | | | | | | | | | | | | |
| **HE80 Full** | | | | | | | | | | | | | |
| **CH 42** | | 10420 | 48.83 | -19.37 | 68.2 | 61.32 | 39.53 | 16.69 | 68.71 | - | - | P | V |
| **5210MHz** | | 11433 | 50.36 | -23.64 | 74 | 60.44 | 40.01 | 17.56 | 67.65 | - | - | P | V |
| | | 11433 | 43 | -11 | 54 | 53.08 | 40.01 | 17.56 | 67.65 | - | - | A | V |
| | | 13314 | 50.61 | -23.39 | 74 | 59.79 | 39.35 | 19.19 | 67.72 | - | - | P | V |
| | | 13314 | 42.93 | -11.07 | 54 | 52.11 | 39.35 | 19.19 | 67.72 | - | - | A | V |
| | | 14491 | 51.9 | -22.1 | 74 | 57.65 | 41.95 | 20.04 | 67.74 | - | - | P | V |
| | | 14491 | 43.27 | -10.73 | 54 | 49.02 | 41.95 | 20.04 | 67.74 | - | - | A | V |
| | | 15630 | 47.29 | -26.71 | 74 | 57.24 | 37.97 | 20.77 | 68.69 | - | - | P | V |
| | | 17989 | 60.58 | -13.42 | 74 | 58.21 | 48.79 | 23 | 69.42 | - | - | P | V |
| | | 17989 | 49.94 | -4.06 | 54 | 47.57 | 48.79 | 23 | 69.42 | - | - | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

**Remark**

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

## UNII-2A - 5250~5350MHz

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

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11a CH 52 5260MHz | | 5143.48 | 54.24 | -19.76 | 74 | 41.12 | 32 | 11.19 | 30.07 | 279 | 167 | P | H |
| | | 5149.26 | 45.4 | -8.6 | 54 | 32.3 | 31.98 | 11.19 | 30.07 | 279 | 167 | A | H |
| | * | 5260 | 121.44 | - | - | 108.77 | 31.4 | 11.33 | 30.06 | 279 | 167 | P | H |
| | * | 5260 | 113.94 | - | - | 101.27 | 31.4 | 11.33 | 30.06 | 279 | 167 | A | H |
| | | 5449.68 | 54.68 | -19.32 | 74 | 41.29 | 32 | 11.47 | 30.08 | 279 | 167 | P | H |
| | | 5358.48 | 47.44 | -6.56 | 54 | 34.52 | 31.58 | 11.41 | 30.07 | 279 | 167 | A | H |
| | | 5149.94 | 65.47 | -8.53 | 74 | 52.31 | 32.04 | 11.19 | 30.07 | 309 | 173 | P | V |
| | | 5149.6 | 47.02 | -6.98 | 54 | 33.86 | 32.04 | 11.19 | 30.07 | 309 | 173 | A | V |
| | * | 5260 | 119.91 | - | - | 107.08 | 31.56 | 11.33 | 30.06 | 309 | 173 | P | V |
| | * | 5260 | 112.06 | - | - | 99.23 | 31.56 | 11.33 | 30.06 | 309 | 173 | A | V |
| | | 5350.08 | 54.12 | -19.88 | 74 | 41.26 | 31.53 | 11.4 | 30.07 | 309 | 173 | P | V |
| | | 5389.68 | 48.75 | -5.25 | 54 | 35.68 | 31.72 | 11.42 | 30.07 | 309 | 173 | A | V |
| 802.11a CH 60 5300MHz | | 5146.88 | 54.26 | -19.74 | 74 | 41.15 | 31.99 | 11.19 | 30.07 | 259 | 167 | P | H |
| | | 5148.24 | 45.17 | -8.83 | 54 | 32.06 | 31.99 | 11.19 | 30.07 | 259 | 167 | A | H |
| | * | 5300 | 121.99 | - | - | 109.3 | 31.4 | 11.37 | 30.08 | 259 | 167 | P | H |
| | * | 5300 | 114.23 | - | - | 101.54 | 31.4 | 11.37 | 30.08 | 259 | 167 | A | H |
| | | 5356.56 | 58.35 | -15.65 | 74 | 45.45 | 31.57 | 11.4 | 30.07 | 259 | 167 | P | H |
| | | 5356.32 | 51.12 | -2.88 | 54 | 38.22 | 31.57 | 11.4 | 30.07 | 259 | 167 | A | H |
| | | 5111.18 | 54.21 | -19.79 | 74 | 41.02 | 32.13 | 11.14 | 30.08 | 291 | 171 | P | V |
| | | 5149.94 | 45.09 | -8.91 | 54 | 31.93 | 32.04 | 11.19 | 30.07 | 291 | 171 | A | V |
| | * | 5300 | 119 | - | - | 106.32 | 31.39 | 11.37 | 30.08 | 291 | 171 | P | V |
| | * | 5300 | 111.5 | - | - | 98.82 | 31.39 | 11.37 | 30.08 | 291 | 171 | A | V |
| | | 5350.32 | 57.88 | -16.12 | 74 | 45.01 | 31.54 | 11.4 | 30.07 | 291 | 171 | P | V |
| | | 5350.08 | 50.25 | -3.75 | 54 | 37.39 | 31.53 | 11.4 | 30.07 | 291 | 171 | A | V |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11a CH 64 5320MHz | * | 5320 | 119.66 | - | - | 106.9 | 31.46 | 11.38 | 30.08 | 253 | 164 | P | H |
| | * | 5320 | 111.87 | - | - | 99.11 | 31.46 | 11.38 | 30.08 | 253 | 164 | A | H |
| | | 5360.16 | 60.52 | -13.48 | 74 | 47.59 | 31.59 | 11.41 | 30.07 | 253 | 164 | P | H |
| | | 5356.8 | 53.49 | -0.51 | 54 | 40.58 | 31.58 | 11.4 | 30.07 | 253 | 164 | A | H |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | * | 5320 | 116.55 | - | - | 103.8 | 31.45 | 11.38 | 30.08 | 295 | 171 | P | V |
| | * | 5320 | 109.27 | - | - | 96.52 | 31.45 | 11.38 | 30.08 | 295 | 171 | A | V |
| | | 5450.72 | 65.46 | -8.54 | 74 | 52.1 | 31.96 | 11.48 | 30.08 | 295 | 171 | P | V |
| | | 5350.08 | 51.55 | -2.45 | 54 | 38.69 | 31.53 | 11.4 | 30.07 | 295 | 171 | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| **Remark** | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## UNII-2A 5250~5350MHz

## WIFI 802.11a (Harmonic @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11a CH 52 5260MHz | | 10520 | 50.07 | -18.13 | 68.2 | 62.2 | 39.74 | 16.77 | 68.64 | - | - | P | H |
| | | 11334 | 50.56 | -23.44 | 74 | 60.97 | 39.85 | 17.47 | 67.73 | - | - | P | H |
| | | 11334 | 42.81 | -11.19 | 54 | 53.22 | 39.85 | 17.47 | 67.73 | - | - | A | H |
| | | 13325 | 50.01 | -23.99 | 74 | 59.11 | 39.42 | 19.2 | 67.72 | - | - | P | H |
| | | 13325 | 43.37 | -10.63 | 54 | 52.47 | 39.42 | 19.2 | 67.72 | - | - | A | H |
| | | 14491 | 51.62 | -22.38 | 74 | 57.38 | 41.94 | 20.04 | 67.74 | - | - | P | H |
| | | 14491 | 42.74 | -11.26 | 54 | 48.5 | 41.94 | 20.04 | 67.74 | - | - | A | H |
| | | 15780 | 50.12 | -23.88 | 74 | 60.23 | 37.48 | 20.88 | 68.47 | 227 | 318 | P | H |
| | | 15780 | 41.83 | -12.17 | 54 | 51.94 | 37.48 | 20.88 | 68.47 | 227 | 318 | A | H |
| | | 18000 | 60.05 | -13.95 | 74 | 57.64 | 48.82 | 23.01 | 69.42 | - | - | P | H |
| | | 18000 | 50.38 | -3.62 | 54 | 47.97 | 48.82 | 23.01 | 69.42 | - | - | A | H |
| | | | | | | | | | | | | | |
| | | 10520 | 52.49 | -15.71 | 68.2 | 64.69 | 39.67 | 16.77 | 68.64 | - | - | P | V |
| | | 10927 | 49.93 | -24.07 | 74 | 60.85 | 40.08 | 17.11 | 68.11 | - | - | P | V |
| | | 10927 | 41.52 | -12.48 | 54 | 52.44 | 40.08 | 17.11 | 68.11 | - | - | A | V |
| | | 13314 | 50.4 | -23.6 | 74 | 59.58 | 39.35 | 19.19 | 67.72 | - | - | P | V |
| | | 13314 | 42.46 | -11.54 | 54 | 51.64 | 39.35 | 19.19 | 67.72 | - | - | A | V |
| | | 14491 | 52.46 | -21.54 | 74 | 58.21 | 41.95 | 20.04 | 67.74 | - | - | P | V |
| | | 14491 | 42.08 | -11.92 | 54 | 47.83 | 41.95 | 20.04 | 67.74 | - | - | A | V |
| | | 15780 | 49.38 | -24.62 | 74 | 59.35 | 37.62 | 20.88 | 68.47 | 299 | 164 | P | V |
| | | 15780 | 41.02 | -12.98 | 54 | 50.99 | 37.62 | 20.88 | 68.47 | 299 | 164 | A | V |
| | | 18000 | 60.03 | -13.97 | 74 | 57.4 | 49.04 | 23.01 | 69.42 | - | - | P | V |
| | | 18000 | 50.24 | -3.76 | 54 | 47.61 | 49.04 | 23.01 | 69.42 | - | - | A | V |
| | | | | | | | | | | | | | |

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 10600 | 49.8 | -24.2 | 74 | 61.83 | 39.68 | 16.83 | 68.54 | 187 | 240 | P | H |
| | | 10600 | 40.6 | -13.4 | 54 | 52.63 | 39.68 | 16.83 | 68.54 | 187 | 240 | A | H |
| | | 11334 | 50.86 | -23.14 | 74 | 61.27 | 39.85 | 17.47 | 67.73 | - | - | P | H |
| | | 11334 | 42.63 | -11.37 | 54 | 53.04 | 39.85 | 17.47 | 67.73 | - | - | A | H |
| | | 13336 | 49.64 | -24.36 | 74 | 58.68 | 39.46 | 19.21 | 67.71 | - | - | P | H |
| | | 13336 | 42.03 | -11.97 | 54 | 51.07 | 39.46 | 19.21 | 67.71 | - | - | A | H |
| | | 14491 | 52.13 | -21.87 | 74 | 57.89 | 41.94 | 20.04 | 67.74 | - | - | P | H |
| | | 14491 | 42.76 | -11.24 | 54 | 48.52 | 41.94 | 20.04 | 67.74 | - | - | A | H |
| | | 15900 | 47.53 | -26.47 | 74 | 57.5 | 37.37 | 20.96 | 68.3 | - | - | P | H |
| | | 17945 | 60.64 | -13.36 | 74 | 59.69 | 47.42 | 22.95 | 69.42 | - | - | P | H |
| | | 17945 | 50.23 | -3.77 | 54 | 49.28 | 47.42 | 22.95 | 69.42 | - | - | A | H |
| i802.11a CH 60 5300MHz | | | | | | | | | | | | | |
| | | 10600 | 55.78 | -18.22 | 74 | 67.62 | 39.87 | 16.83 | 68.54 | 291 | 309 | P | V |
| | | 10600 | 46.31 | -7.69 | 54 | 58.15 | 39.87 | 16.83 | 68.54 | 291 | 309 | A | V |
| | | 11466 | 50.47 | -23.53 | 74 | 60.43 | 40.07 | 17.59 | 67.62 | - | - | P | V |
| | | 11466 | 42.61 | -11.39 | 54 | 52.57 | 40.07 | 17.59 | 67.62 | - | - | A | V |
| | | 13314 | 50.52 | -23.48 | 74 | 59.7 | 39.35 | 19.19 | 67.72 | - | - | P | V |
| | | 13314 | 43.89 | -10.11 | 54 | 53.07 | 39.35 | 19.19 | 67.72 | - | - | A | V |
| | | 14491 | 51.75 | -22.25 | 74 | 57.5 | 41.95 | 20.04 | 67.74 | - | - | P | V |
| | | 14491 | 42.34 | -11.66 | 54 | 48.09 | 41.95 | 20.04 | 67.74 | - | - | A | V |
| | | 15900 | 47.25 | -26.75 | 74 | 57.15 | 37.44 | 20.96 | 68.3 | - | - | P | V |
| | | 17989 | 60.48 | -13.52 | 74 | 58.11 | 48.79 | 23 | 69.42 | - | - | P | V |
| | | 17989 | 50.32 | -3.68 | 54 | 47.95 | 48.79 | 23 | 69.42 | - | - | A | V |

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11a CH 64 5320MHz | | 10640 | 52.71 | -21.29 | 74 | 64.52 | 39.81 | 16.87 | 68.49 | 389 | 358 | P | H |
| | | 10640 | 42.39 | -11.61 | 54 | 54.2 | 39.81 | 16.87 | 68.49 | 389 | 358 | A | H |
| | | 11433 | 49.9 | -24.1 | 74 | 59.91 | 40.08 | 17.56 | 67.65 | - | - | P | H |
| | | 11433 | 43.03 | -10.97 | 54 | 53.04 | 40.08 | 17.56 | 67.65 | - | - | A | H |
| | | 13292 | 50.37 | -23.63 | 74 | 59.64 | 39.29 | 19.17 | 67.73 | - | - | P | H |
| | | 13292 | 42.19 | -11.81 | 54 | 51.46 | 39.29 | 19.17 | 67.73 | - | - | A | H |
| | | 14491 | 52.57 | -21.43 | 74 | 58.33 | 41.94 | 20.04 | 67.74 | - | - | P | H |
| | | 14491 | 42.15 | -11.85 | 54 | 47.91 | 41.94 | 20.04 | 67.74 | - | - | A | H |
| | | 15960 | 46.76 | -27.24 | 74 | 56.65 | 37.33 | 21 | 68.22 | - | - | P | H |
| | | 17989 | 60.21 | -13.79 | 74 | 58.1 | 48.53 | 23 | 69.42 | - | - | P | H |
| | | 17989 | 50.11 | -3.89 | 54 | 48 | 48.53 | 23 | 69.42 | - | - | A | H |
| | | | | | | | | | | | | | |
| | | 10640 | 56.66 | -17.34 | 74 | 68.41 | 39.87 | 16.87 | 68.49 | 240 | 277 | P | V |
| | | 10640 | 47.51 | -6.49 | 54 | 59.26 | 39.87 | 16.87 | 68.49 | 240 | 277 | A | V |
| | | 11323 | 50.25 | -23.75 | 74 | 60.77 | 39.76 | 17.46 | 67.74 | - | - | P | V |
| | | 11323 | 42.71 | -11.29 | 54 | 53.23 | 39.76 | 17.46 | 67.74 | - | - | A | V |
| | | 13369 | 49.43 | -24.57 | 74 | 58.33 | 39.56 | 19.23 | 67.69 | - | - | P | V |
| | | 13369 | 43.19 | -10.81 | 54 | 52.09 | 39.56 | 19.23 | 67.69 | - | - | A | V |
| | | 14491 | 51.95 | -22.05 | 74 | 57.7 | 41.95 | 20.04 | 67.74 | - | - | P | V |
| | | 14491 | 41.37 | -12.63 | 54 | 47.12 | 41.95 | 20.04 | 67.74 | - | - | A | V |
| | | 15960 | 47.35 | -26.65 | 74 | 57.08 | 37.49 | 21 | 68.22 | - | - | P | V |
| | | 17967 | 60.16 | -13.84 | 74 | 58.32 | 48.29 | 22.97 | 69.42 | - | - | P | V |
| | | 17967 | 50.43 | -3.57 | 54 | 48.59 | 48.29 | 22.97 | 69.42 | - | - | A | V |
| | | | | | | | | | | | | | |

**Remark**

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

## UNII-2A 5250~5350MHz

## WIFI 802.11ax HE20 Full (Band Edge @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 5092.48 | 54.24 | -19.76 | 74 | 41.13 | 32.09 | 11.1 | 30.08 | 283 | 167 | P | H |
| | | 5149.6 | 44.68 | -9.32 | 54 | 31.58 | 31.98 | 11.19 | 30.07 | 283 | 167 | A | H |
| | * | 5260 | 121.58 | - | - | 108.91 | 31.4 | 11.33 | 30.06 | 283 | 167 | P | H |
| | * | 5260 | 113.06 | - | - | 100.39 | 31.4 | 11.33 | 30.06 | 283 | 167 | A | H |
| 802.11ax | | 5362.08 | 54.85 | -19.15 | 74 | 41.91 | 31.6 | 11.41 | 30.07 | 283 | 167 | P | H |
| HE20 Full | | 5364.72 | 46.12 | -7.88 | 54 | 33.17 | 31.61 | 11.41 | 30.07 | 283 | 167 | A | H |
| CH 52 | | 5122.4 | 54.46 | -19.54 | 74 | 41.28 | 32.1 | 11.16 | 30.08 | 287 | 172 | P | V |
| 5260MHz | | 5149.6 | 44.49 | -9.51 | 54 | 31.33 | 32.04 | 11.19 | 30.07 | 287 | 172 | A | V |
| | * | 5260 | 118.63 | - | - | 105.8 | 31.56 | 11.33 | 30.06 | 287 | 172 | P | V |
| | * | 5260 | 110.72 | - | - | 97.89 | 31.56 | 11.33 | 30.06 | 287 | 172 | A | V |
| | | 5381.28 | 57.25 | -16.75 | 74 | 44.22 | 31.68 | 11.42 | 30.07 | 287 | 172 | P | V |
| | | 5454.96 | 45.95 | -8.05 | 54 | 32.59 | 31.96 | 11.48 | 30.08 | 287 | 172 | A | V |
| | | 5137.02 | 54.14 | -19.86 | 74 | 41.02 | 32.01 | 11.18 | 30.07 | 252 | 14 | P | H |
| | | 5149.94 | 45.31 | -8.69 | 54 | 32.21 | 31.98 | 11.19 | 30.07 | 252 | 14 | A | H |
| | * | 5300 | 125.15 | - | - | 112.46 | 31.4 | 11.37 | 30.08 | 252 | 14 | P | H |
| | * | 5300 | 115.1 | - | - | 102.41 | 31.4 | 11.37 | 30.08 | 252 | 14 | P | H |
| 802.11ax | | 5356.32 | 53.89 | -20.11 | 74 | 40.99 | 31.57 | 11.4 | 30.07 | 252 | 14 | P | H |
| HE20 Full | | 5355.36 | 45.98 | -8.02 | 54 | 33.08 | 31.57 | 11.4 | 30.07 | 252 | 14 | A | H |
| CH 60 | | 5097.92 | 54.02 | -19.98 | 74 | 40.84 | 32.14 | 11.12 | 30.08 | 301 | 344 | P | V |
| 5300MHz | | 5149.94 | 45.26 | -8.74 | 54 | 32.1 | 32.04 | 11.19 | 30.07 | 301 | 344 | A | V |
| | * | 5300 | 124.14 | - | - | 111.46 | 31.39 | 11.37 | 30.08 | 301 | 344 | P | V |
| | * | 5300 | 114.65 | - | - | 101.97 | 31.39 | 11.37 | 30.08 | 301 | 344 | A | V |
| | | 5350.8 | 55.62 | -18.38 | 74 | 42.75 | 31.54 | 11.4 | 30.07 | 301 | 344 | P | V |
| | | 5350.32 | 47.65 | -6.35 | 54 | 34.78 | 31.54 | 11.4 | 30.07 | 301 | 344 | A | V |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | * | 5320 | 118.31 | - | - | 105.55 | 31.46 | 11.38 | 30.08 | 274 | 19 | P | H |
| | | 5357.6 | 55.92 | -18.08 | 74 | 43.01 | 31.58 | 11.4 | 30.07 | 274 | 19 | P | H |
| | | 5359.36 | 47.79 | -6.21 | 54 | 34.86 | 31.59 | 11.41 | 30.07 | 274 | 19 | A | H |
| | | | | | | | | | | | | | |
| **802.11ax** | | | | | | | | | | | | | |
| **HE20 Full** | | | | | | | | | | | | | |
| **CH 64** | * | 5320 | 121.73 | - | - | 108.98 | 31.45 | 11.38 | 30.08 | 297 | 347 | P | V |
| **5320MHz** | * | 5320 | 112.91 | - | - | 100.16 | 31.45 | 11.38 | 30.08 | 297 | 347 | A | V |
| | | 5350.08 | 61.74 | -12.26 | 74 | 48.88 | 31.53 | 11.4 | 30.07 | 297 | 347 | P | V |
| | | 5350.24 | 53.59 | -0.41 | 54 | 40.72 | 31.54 | 11.4 | 30.07 | 297 | 347 | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| | |
|---|---|
| **Remark** | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |

## UNII-2A 5250~5350MHz

## WIFI 802.11ax HE20 Full (Harmonic @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 10520 | 50.35 | -17.85 | 68.2 | 62.48 | 39.74 | 16.77 | 68.64 | - | - | P | H |
| | | 11422 | 50.81 | -23.19 | 74 | 60.87 | 40.05 | 17.55 | 67.66 | - | - | P | H |
| | | 11422 | 42.24 | -11.76 | 54 | 52.3 | 40.05 | 17.55 | 67.66 | - | - | A | H |
| | | 13380 | 50.47 | -23.53 | 74 | 59.31 | 39.6 | 19.24 | 67.68 | - | - | P | H |
| | | 13380 | 42.89 | -11.11 | 54 | 51.73 | 39.6 | 19.24 | 67.68 | - | - | A | H |
| | | 14491 | 52.54 | -21.46 | 74 | 58.3 | 41.94 | 20.04 | 67.74 | - | - | P | H |
| | | 14491 | 43.14 | -10.86 | 54 | 48.9 | 41.94 | 20.04 | 67.74 | - | - | A | H |
| | | 15780 | 49.09 | -24.91 | 74 | 59.2 | 37.48 | 20.88 | 68.47 | 299 | 173 | P | H |
| | | 15780 | 40.92 | -13.08 | 54 | 51.03 | 37.48 | 20.88 | 68.47 | 299 | 173 | A | H |
| | | 17978 | 60.59 | -13.41 | 74 | 58.77 | 48.25 | 22.99 | 69.42 | - | - | P | H |
| 802.11ax | | 17978 | 50.87 | -3.13 | 54 | 49.05 | 48.25 | 22.99 | 69.42 | - | - | A | H |
| HE20 Full | | | | | | | | | | | | | |
| CH 52 | | 10520 | 52.99 | -15.21 | 68.2 | 65.19 | 39.67 | 16.77 | 68.64 | - | - | P | V |
| 5260MHz | | 10916 | 50.59 | -23.41 | 74 | 61.56 | 40.06 | 17.1 | 68.13 | - | - | P | V |
| | | 10916 | 41.76 | -12.24 | 54 | 52.73 | 40.06 | 17.1 | 68.13 | - | - | A | V |
| | | 13358 | 50.92 | -23.08 | 74 | 59.89 | 39.51 | 19.22 | 67.7 | - | - | P | V |
| | | 13358 | 43.12 | -10.88 | 54 | 52.09 | 39.51 | 19.22 | 67.7 | - | - | A | V |
| | | 14491 | 52.26 | -21.74 | 74 | 58.01 | 41.95 | 20.04 | 67.74 | - | - | P | V |
| | | 14491 | 43.01 | -10.99 | 54 | 48.76 | 41.95 | 20.04 | 67.74 | - | - | A | V |
| | | 15780 | 49.51 | -24.49 | 74 | 59.48 | 37.62 | 20.88 | 68.47 | 320 | 189 | P | V |
| | | 15780 | 41.56 | -12.44 | 54 | 51.53 | 37.62 | 20.88 | 68.47 | 320 | 189 | A | V |
| | | 17956 | 60.7 | -13.3 | 74 | 59.12 | 48.04 | 22.96 | 69.42 | - | - | P | V |
| | | 17956 | 50.18 | -3.82 | 54 | 48.6 | 48.04 | 22.96 | 69.42 | - | - | A | V |
| | | | | | | | | | | | | | |

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 10600 | 54.25 | -19.75 | 74 | 66.15 | 39.81 | 16.83 | 68.54 | 387 | 358 | P | H |
| | | 10600 | 43.08 | -10.92 | 54 | 54.98 | 39.81 | 16.83 | 68.54 | 387 | 358 | A | H |
| | | 11510 | 50.91 | -23.09 | 74 | 60.72 | 40.15 | 17.63 | 67.59 | - | - | P | H |
| | | 11510 | 42.57 | -11.43 | 54 | 52.38 | 40.15 | 17.63 | 67.59 | - | - | A | H |
| | | 13369 | 51.3 | -22.7 | 74 | 60.2 | 39.56 | 19.23 | 67.69 | - | - | P | H |
| | | 13369 | 43.34 | -10.66 | 54 | 52.24 | 39.56 | 19.23 | 67.69 | - | - | A | H |
| | | 14491 | 52.75 | -21.25 | 74 | 58.51 | 41.94 | 20.04 | 67.74 | - | - | P | H |
| | | 14491 | 43.31 | -10.69 | 54 | 49.07 | 41.94 | 20.04 | 67.74 | - | - | A | H |
| | | 15900 | 47.2 | -26.8 | 74 | 57.17 | 37.37 | 20.96 | 68.3 | - | - | P | H |
| | | 17967 | 60.42 | -13.58 | 74 | 58.91 | 47.96 | 22.97 | 69.42 | - | - | P | H |
| 802.11ax | | 17967 | 50.59 | -3.41 | 54 | 49.08 | 47.96 | 22.97 | 69.42 | - | - | A | H |
| HE20 Full | | | | | | | | | | | | | |
| CH 60 | | 10600 | 59.78 | -14.22 | 74 | 71.62 | 39.87 | 16.83 | 68.54 | 244 | 279 | P | V |
| 5300MHz | | 10600 | 47.73 | -6.27 | 54 | 59.57 | 39.87 | 16.83 | 68.54 | 244 | 279 | A | V |
| | | 11422 | 50.73 | -23.27 | 74 | 60.86 | 39.98 | 17.55 | 67.66 | - | - | P | V |
| | | 11422 | 42.92 | -11.08 | 54 | 53.05 | 39.98 | 17.55 | 67.66 | - | - | A | V |
| | | 13358 | 50.46 | -23.54 | 74 | 59.43 | 39.51 | 19.22 | 67.7 | - | - | P | V |
| | | 13358 | 42.7 | -11.3 | 54 | 51.67 | 39.51 | 19.22 | 67.7 | - | - | A | V |
| | | 14491 | 52.91 | -21.09 | 74 | 58.66 | 41.95 | 20.04 | 67.74 | - | - | P | V |
| | | 14491 | 43.15 | -10.85 | 54 | 48.9 | 41.95 | 20.04 | 67.74 | - | - | A | V |
| | | 15900 | 47.69 | -26.31 | 74 | 57.59 | 37.44 | 20.96 | 68.3 | - | - | P | V |
| | | 17956 | 60.85 | -13.15 | 74 | 59.27 | 48.04 | 22.96 | 69.42 | - | - | P | V |
| | | 17956 | 50.69 | -3.31 | 54 | 49.11 | 48.04 | 22.96 | 69.42 | - | - | A | V |
| | | | | | | | | | | | | | |

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 10640 | 50.36 | -23.64 | 74 | 62.3 | 39.68 | 16.87 | 68.49 | 253 | 234 | P | H |
| | | 10640 | 41.18 | -12.82 | 54 | 53.12 | 39.68 | 16.87 | 68.49 | 253 | 234 | A | H |
| | | 10971 | 50.78 | -23.22 | 74 | 61.53 | 40.16 | 17.15 | 68.06 | - | - | P | H |
| | | 10971 | 41.93 | -12.07 | 54 | 52.68 | 40.16 | 17.15 | 68.06 | - | - | A | H |
| | | 13358 | 50.27 | -23.73 | 74 | 59.22 | 39.53 | 19.22 | 67.7 | - | - | P | H |
| | | 13358 | 42.79 | -11.21 | 54 | 51.74 | 39.53 | 19.22 | 67.7 | - | - | A | H |
| | | 14491 | 52.07 | -21.93 | 74 | 57.83 | 41.94 | 20.04 | 67.74 | - | - | P | H |
| | | 14491 | 42.74 | -11.26 | 54 | 48.5 | 41.94 | 20.04 | 67.74 | - | - | A | H |
| | | 15960 | 46.93 | -27.07 | 74 | 56.82 | 37.33 | 21 | 68.22 | - | - | P | H |
| | | 18000 | 60.33 | -13.67 | 74 | 57.92 | 48.82 | 23.01 | 69.42 | - | - | P | H |
| **802.11ax** | | 18000 | 50.53 | -3.47 | 54 | 48.12 | 48.82 | 23.01 | 69.42 | - | - | A | H |
| **HE20 Full** | | | | | | | | | | | | | |
| **CH 64** | | 10640 | 57.8 | -16.2 | 74 | 69.55 | 39.87 | 16.87 | 68.49 | 286 | 282 | P | V |
| **5320MHz** | | 10640 | 45.36 | -8.64 | 54 | 57.11 | 39.87 | 16.87 | 68.49 | 286 | 282 | A | V |
| | | 11356 | 50.36 | -23.64 | 74 | 60.74 | 39.84 | 17.49 | 67.71 | - | - | P | V |
| | | 11356 | 42.57 | -11.43 | 54 | 52.95 | 39.84 | 17.49 | 67.71 | - | - | A | V |
| | | 13325 | 50.97 | -23.03 | 74 | 60.1 | 39.39 | 19.2 | 67.72 | - | - | P | V |
| | | 13325 | 43.64 | -10.36 | 54 | 52.77 | 39.39 | 19.2 | 67.72 | - | - | A | V |
| | | 14491 | 52.45 | -21.55 | 74 | 58.2 | 41.95 | 20.04 | 67.74 | - | - | P | V |
| | | 14491 | 43.36 | -10.64 | 54 | 49.11 | 41.95 | 20.04 | 67.74 | - | - | A | V |
| | | 15960 | 47.2 | -26.8 | 74 | 56.93 | 37.49 | 21 | 68.22 | - | - | P | V |
| | | 18000 | 60.19 | -13.81 | 74 | 57.56 | 49.04 | 23.01 | 69.42 | - | - | P | V |
| | | 18000 | 50.19 | -3.81 | 54 | 47.56 | 49.04 | 23.01 | 69.42 | - | - | A | V |
| | | | | | | | | | | | | | |

**Remark**

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

## UNII-2A 5250~5350MHz

## WIFI 802.11ax HE40 Full (Band Edge @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11ax HE40 Full CH 54 5270MHz | | 5130.56 | 54.81 | -19.19 | 74 | 41.68 | 32.03 | 11.17 | 30.07 | 283 | 167 | P | H |
| | | 5147.9 | 45.54 | -8.46 | 54 | 32.43 | 31.99 | 11.19 | 30.07 | 283 | 167 | A | H |
| | * | 5270 | 119.41 | - | - | 106.73 | 31.4 | 11.34 | 30.06 | 283 | 167 | P | H |
| | * | 5270 | 110.88 | - | - | 98.2 | 31.4 | 11.34 | 30.06 | 283 | 167 | A | H |
| | | 5351.52 | 60.61 | -13.39 | 74 | 47.73 | 31.55 | 11.4 | 30.07 | 283 | 167 | P | H |
| | | 5350.08 | 52.96 | -1.04 | 54 | 40.09 | 31.54 | 11.4 | 30.07 | 283 | 167 | A | H |
| | | 5095.54 | 53.72 | -20.28 | 74 | 40.55 | 32.14 | 11.11 | 30.08 | 296 | 173 | P | V |
| | | 5149.94 | 45.22 | -8.78 | 54 | 32.06 | 32.04 | 11.19 | 30.07 | 296 | 173 | A | V |
| | * | 5270 | 117.42 | - | - | 104.62 | 31.52 | 11.34 | 30.06 | 296 | 173 | P | V |
| | * | 5270 | 108.88 | - | - | 96.08 | 31.52 | 11.34 | 30.06 | 296 | 173 | A | V |
| | | 5352.96 | 56.79 | -17.21 | 74 | 43.91 | 31.55 | 11.4 | 30.07 | 296 | 173 | P | V |
| | | 5353.68 | 49.97 | -4.03 | 54 | 37.09 | 31.55 | 11.4 | 30.07 | 296 | 173 | A | V |
| 802.11ax HE40 Full CH 62 5310MHz | | 5129.54 | 54.53 | -19.47 | 74 | 41.4 | 32.03 | 11.17 | 30.07 | 288 | 166 | P | H |
| | | 5136 | 44.15 | -9.85 | 54 | 31.02 | 32.02 | 11.18 | 30.07 | 288 | 166 | A | H |
| | * | 5310 | 114.24 | - | - | 101.51 | 31.43 | 11.38 | 30.08 | 288 | 166 | P | H |
| | * | 5310 | 105.35 | - | - | 92.62 | 31.43 | 11.38 | 30.08 | 288 | 166 | A | H |
| | | 5351.04 | 61.56 | -12.44 | 74 | 48.68 | 31.55 | 11.4 | 30.07 | 288 | 166 | P | H |
| | | 5351.04 | 53.84 | -0.16 | 54 | 40.96 | 31.55 | 11.4 | 30.07 | 288 | 166 | A | H |
| | | 5063.92 | 53.11 | -20.89 | 74 | 40.18 | 32.03 | 10.98 | 30.08 | 291 | 171 | P | V |
| | | 5129.54 | 44.05 | -9.95 | 54 | 30.87 | 32.08 | 11.17 | 30.07 | 291 | 171 | A | V |
| | * | 5310 | 111.83 | - | - | 99.11 | 31.42 | 11.38 | 30.08 | 291 | 171 | P | V |
| | * | 5310 | 102.7 | - | - | 89.98 | 31.42 | 11.38 | 30.08 | 291 | 171 | A | V |
| | | 5354.4 | 60.29 | -13.71 | 74 | 47.4 | 31.56 | 11.4 | 30.07 | 291 | 171 | P | V |
| | | 5353.2 | 50.6 | -3.4 | 54 | 37.72 | 31.55 | 11.4 | 30.07 | 291 | 171 | A | V |
| **Remark** | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## UNII-2A 5250~5350MHz

## WIFI 802.11ax HE40 Full (Harmonic @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 10540 | 48.93 | -19.27 | 68.2 | 61.03 | 39.73 | 16.79 | 68.62 | - | - | P | H |
| | | 11290 | 51.23 | -22.77 | 74 | 61.82 | 39.75 | 17.43 | 67.77 | - | - | P | H |
| | | 11290 | 42.46 | -11.54 | 54 | 53.05 | 39.75 | 17.43 | 67.77 | - | - | A | H |
| | | 13325 | 50.67 | -23.33 | 74 | 59.77 | 39.42 | 19.2 | 67.72 | - | - | P | H |
| | | 13325 | 42.98 | -11.02 | 54 | 52.08 | 39.42 | 19.2 | 67.72 | - | - | A | H |
| | | 14491 | 53.52 | -20.48 | 74 | 59.28 | 41.94 | 20.04 | 67.74 | - | - | P | H |
| | | 14491 | 42.96 | -11.04 | 54 | 48.72 | 41.94 | 20.04 | 67.74 | - | - | A | H |
| | | 15810 | 47.55 | -26.45 | 74 | 57.66 | 37.42 | 20.9 | 68.43 | - | - | P | H |
| | | 17956 | 60.65 | -13.35 | 74 | 59.43 | 47.68 | 22.96 | 69.42 | - | - | P | H |
| | | 17956 | 50.08 | -3.92 | 54 | 48.86 | 47.68 | 22.96 | 69.42 | - | - | A | H |
| **802.11ax** | | | | | | | | | | | | | |
| **HE40 Full** | | | | | | | | | | | | | |
| **CH 54** | | 10540 | 50.61 | -17.59 | 68.2 | 62.77 | 39.67 | 16.79 | 68.62 | - | - | P | V |
| **5270MHz** | | 11301 | 51.12 | -22.88 | 74 | 61.74 | 39.7 | 17.44 | 67.76 | - | - | P | V |
| | | 11301 | 42.69 | -11.31 | 54 | 53.31 | 39.7 | 17.44 | 67.76 | - | - | A | V |
| | | 13325 | 50.73 | -23.27 | 74 | 59.86 | 39.39 | 19.2 | 67.72 | - | - | P | V |
| | | 13325 | 42.64 | -11.36 | 54 | 51.77 | 39.39 | 19.2 | 67.72 | - | - | A | V |
| | | 14491 | 52.68 | -21.32 | 74 | 58.43 | 41.95 | 20.04 | 67.74 | - | - | P | V |
| | | 14491 | 43.26 | -10.74 | 54 | 49.01 | 41.95 | 20.04 | 67.74 | - | - | A | V |
| | | 15810 | 47.98 | -26.02 | 74 | 57.94 | 37.57 | 20.9 | 68.43 | - | - | P | V |
| | | 17989 | 60.23 | -13.77 | 74 | 57.86 | 48.79 | 23 | 69.42 | - | - | P | V |
| | | 17989 | 50.45 | -3.55 | 54 | 48.08 | 48.79 | 23 | 69.42 | - | - | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 10620 | 49.87 | -24.13 | 74 | 61.85 | 39.68 | 16.85 | 68.51 | 208 | 246 | P | H |
| | | 10620 | 41.09 | -12.91 | 54 | 53.07 | 39.68 | 16.85 | 68.51 | 208 | 246 | A | H |
| | | 11510 | 51.42 | -22.58 | 74 | 61.23 | 40.15 | 17.63 | 67.59 | - | - | P | H |
| | | 11510 | 42.95 | -11.05 | 54 | 52.76 | 40.15 | 17.63 | 67.59 | - | - | A | H |
| | | 13292 | 50.33 | -23.67 | 74 | 59.6 | 39.29 | 19.17 | 67.73 | - | - | P | H |
| | | 13292 | 43.1 | -10.9 | 54 | 52.37 | 39.29 | 19.17 | 67.73 | - | - | A | H |
| | | 14491 | 52.54 | -21.46 | 74 | 58.3 | 41.94 | 20.04 | 67.74 | - | - | P | H |
| | | 14491 | 43.2 | -10.8 | 54 | 48.96 | 41.94 | 20.04 | 67.74 | - | - | A | H |
| | | 15930 | 46.68 | -27.32 | 74 | 56.62 | 37.34 | 20.98 | 68.26 | - | - | P | H |
| | | 17978 | 60.62 | -13.38 | 74 | 58.8 | 48.25 | 22.99 | 69.42 | - | - | P | H |
| **802.11ax** | | 17978 | 50.89 | -3.11 | 54 | 49.07 | 48.25 | 22.99 | 69.42 | - | - | A | H |
| **HE40 Full** | | | | | | | | | | | | | |
| **CH 62** | | 10620 | 50.94 | -23.06 | 74 | 62.97 | 39.63 | 16.85 | 68.51 | 307 | 133 | P | V |
| **5310MHz** | | 10620 | 41.2 | -12.8 | 54 | 53.23 | 39.63 | 16.85 | 68.51 | 307 | 133 | A | V |
| | | 11257 | 51.1 | -22.9 | 74 | 61.87 | 39.63 | 17.4 | 67.8 | - | - | P | V |
| | | 11257 | 42.28 | -11.72 | 54 | 53.05 | 39.63 | 17.4 | 67.8 | - | - | A | V |
| | | 13314 | 51.78 | -22.22 | 74 | 60.96 | 39.35 | 19.19 | 67.72 | - | - | P | V |
| | | 13314 | 43.64 | -10.36 | 54 | 52.82 | 39.35 | 19.19 | 67.72 | - | - | A | V |
| | | 14491 | 52.8 | -21.2 | 74 | 58.55 | 41.95 | 20.04 | 67.74 | - | - | P | V |
| | | 14491 | 43.47 | -10.53 | 54 | 49.22 | 41.95 | 20.04 | 67.74 | - | - | A | V |
| | | 15930 | 46.87 | -27.13 | 74 | 56.69 | 37.46 | 20.98 | 68.26 | - | - | P | V |
| | | 17978 | 60.31 | -13.69 | 74 | 58.2 | 48.54 | 22.99 | 69.42 | - | - | P | V |
| | | 17978 | 50.68 | -3.32 | 54 | 48.57 | 48.54 | 22.99 | 69.42 | - | - | A | V |
| | | | | | | | | | | | | | |

**Remark**

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

## UNII-2A 5250~5350MHz

## WIFI 802.11ax HE80 Full (Band Edge @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11ax HE80 Full CH 58 5290MHz | | 5119 | 53.97 | -20.03 | 74 | 40.84 | 32.06 | 11.15 | 30.08 | 292 | 166 | P | H |
| | | 5147.22 | 44.85 | -9.15 | 54 | 31.74 | 31.99 | 11.19 | 30.07 | 292 | 166 | A | H |
| | * | 5290 | 109.37 | - | - | 96.68 | 31.4 | 11.36 | 30.07 | 292 | 166 | P | H |
| | * | 5290 | 101.86 | - | - | 89.17 | 31.4 | 11.36 | 30.07 | 292 | 166 | A | H |
| | | 5351.76 | 61.57 | -12.43 | 74 | 48.69 | 31.55 | 11.4 | 30.07 | 292 | 166 | P | H |
| | | 5350.56 | 53.7 | -0.3 | 54 | 40.82 | 31.55 | 11.4 | 30.07 | 292 | 166 | A | H |
| | | 5093.5 | 53.82 | -20.18 | 74 | 40.67 | 32.13 | 11.1 | 30.08 | 284 | 170 | P | V |
| | | 5149.94 | 44.16 | -9.84 | 54 | 31 | 32.04 | 11.19 | 30.07 | 284 | 170 | A | V |
| | * | 5290 | 108.12 | - | - | 95.4 | 31.43 | 11.36 | 30.07 | 284 | 170 | P | V |
| | * | 5290 | 99.65 | - | - | 86.93 | 31.43 | 11.36 | 30.07 | 284 | 170 | A | V |
| | | 5352.96 | 58.44 | -15.56 | 74 | 45.56 | 31.55 | 11.4 | 30.07 | 284 | 170 | P | V |
| | | 5353.92 | 51.06 | -2.94 | 54 | 38.18 | 31.55 | 11.4 | 30.07 | 284 | 170 | A | V |
| Remark | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## UNII-2A 5250~5350MHz

## WIFI 802.11ax HE80 Full (Harmonic @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 10580 | 48.04 | -20.16 | 68.2 | 60.11 | 39.69 | 16.81 | 68.57 | - | - | P | H |
| | | 10872 | 50.65 | -23.35 | 74 | 61.67 | 40.11 | 17.06 | 68.19 | - | - | P | H |
| | | 10872 | 42.03 | -11.97 | 54 | 53.05 | 40.11 | 17.06 | 68.19 | - | - | A | H |
| | | 13358 | 50.92 | -23.08 | 74 | 59.87 | 39.53 | 19.22 | 67.7 | - | - | P | H |
| | | 13358 | 41.15 | -12.85 | 54 | 50.1 | 39.53 | 19.22 | 67.7 | - | - | A | H |
| | | 14491 | 52.18 | -21.82 | 74 | 57.94 | 41.94 | 20.04 | 67.74 | - | - | P | H |
| | | 14491 | 42.83 | -11.17 | 54 | 48.59 | 41.94 | 20.04 | 67.74 | - | - | A | H |
| | | 15870 | 47.09 | -26.91 | 74 | 57.11 | 37.38 | 20.94 | 68.34 | - | - | P | H |
| | | 17989 | 60.02 | -13.98 | 74 | 57.91 | 48.53 | 23 | 69.42 | - | - | P | H |
| | | 17989 | 50.87 | -3.13 | 54 | 48.76 | 48.53 | 23 | 69.42 | - | - | A | H |
| **802.11ax** | | | | | | | | | | | | | |
| **HE80 Full** | | | | | | | | | | | | | |
| **CH 58** | | 10580 | 48.62 | -19.58 | 68.2 | 60.71 | 39.67 | 16.81 | 68.57 | - | - | P | V |
| **5290MHz** | | 11675 | 50.47 | -23.53 | 74 | 60.74 | 39.61 | 17.78 | 67.66 | - | - | P | V |
| | | 11675 | 43.23 | -10.77 | 54 | 53.5 | 39.61 | 17.78 | 67.66 | - | - | A | V |
| | | 13369 | 49.78 | -24.22 | 74 | 58.68 | 39.56 | 19.23 | 67.69 | - | - | P | V |
| | | 13369 | 43.52 | -10.48 | 54 | 52.42 | 39.56 | 19.23 | 67.69 | - | - | A | V |
| | | 14491 | 53.05 | -20.95 | 74 | 58.8 | 41.95 | 20.04 | 67.74 | - | - | P | V |
| | | 14491 | 42.91 | -11.09 | 54 | 48.66 | 41.95 | 20.04 | 67.74 | - | - | A | V |
| | | 15870 | 46.68 | -27.32 | 74 | 56.6 | 37.48 | 20.94 | 68.34 | - | - | P | V |
| | | 17989 | 60.94 | -13.06 | 74 | 58.57 | 48.79 | 23 | 69.42 | - | - | P | V |
| | | 17989 | 50.13 | -3.87 | 54 | 47.76 | 48.79 | 23 | 69.42 | - | - | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

**Remark**

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

## Emission above 18GHz

## WIFI 802.11ax HE40 Full (SHF @ 1m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Path | Preamp | Ant | Table | Peak | Pol. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| | | ( MHz ) | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11ax HE40 Full CH62 5310MHz SHF | | 36480 | 46.31 | -27.69 | 74 | 36.64 | 42.54 | 21.91 | 54.78 | - | - | P | H |
| | | 39780 | 53 | -21 | 74 | 37.2 | 44.81 | 24.44 | 53.45 | - | - | P | H |
| | | 39780 | 45.48 | -8.52 | 54 | 29.68 | 44.81 | 24.44 | 53.45 | - | - | A | H |
| | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | |
| | | 36480 | 46.69 | -27.31 | 74 | 36.97 | 42.59 | 21.91 | 54.78 | - | - | P | V |
| | | 39516 | 52.08 | -21.92 | 74 | 37.32 | 44.54 | 24.26 | 54.04 | - | - | P | V |
| | | 39516 | 44.94 | -9.06 | 54 | 30.18 | 44.54 | 24.26 | 54.04 | - | - | A | V |
| | | | | | | | | | | | | | |
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**Remark**

1. No other spurious found.
2. All results are PASS against limit line.
3. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.

## Emission below 1GHz

## WIFI 802.11ax HE40 Full (LF @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Path | Preamp | Ant | Table | Peak | Pol. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| | | ( MHz ) | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11ax HE40 Full CH62 5310MHz LF | | 62.98 | 31.45 | -8.55 | 40 | 50.69 | 11.8 | 1.39 | 32.43 | - | - | P | H |
| | | 147.37 | 28.04 | -15.46 | 43.5 | 41.18 | 17.26 | 2.01 | 32.41 | - | - | P | H |
| | | 324.88 | 32.27 | -13.73 | 46 | 42.25 | 19.5 | 2.97 | 32.45 | - | - | P | H |
| | | 423.82 | 32.61 | -13.39 | 46 | 38.96 | 22.58 | 3.58 | 32.51 | - | - | P | H |
| | | 749.74 | 35.05 | -10.95 | 46 | 34.78 | 27.99 | 4.66 | 32.38 | - | - | P | H |
| | | 874.87 | 38.4 | -7.6 | 46 | 36.14 | 29.1 | 4.94 | 31.78 | 120 | 202 | Q | H |
| | | 874.87 | 42.16 | -3.84 | 46 | 39.9 | 29.1 | 4.94 | 31.78 | 120 | 202 | P | H |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | 39.7 | 33.08 | -6.92 | 40 | 44.56 | 19.88 | 1.08 | 32.44 | - | - | P | V |
| | | 61.04 | 33.16 | -6.84 | 40 | 52.53 | 11.7 | 1.36 | 32.43 | - | - | P | V |
| | | 105.66 | 30.76 | -12.74 | 43.5 | 44.87 | 16.57 | 1.73 | 32.41 | - | - | P | V |
| | | 424.79 | 36.79 | -9.21 | 46 | 43.12 | 22.6 | 3.58 | 32.51 | - | - | P | V |
| | | 753.62 | 35.14 | -10.86 | 46 | 34.85 | 28 | 4.66 | 32.37 | - | - | P | V |
| | | 874.87 | 38.2 | -7.8 | 46 | 35.94 | 29.1 | 4.94 | 31.78 | - | - | P | V |
| | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | |

**Remark**

1. No other spurious found.
2. All results are PASS against limit line.
3. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.

**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 | Path | Preamp | Ant | Table | Peak | Pol. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| | | ( MHz ) | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11a CH 36 5180MHz | | 5150 | 58.84 | -15.16 | 74 | 45.00 | 31.86 | 11.19 | 29.21 | 141 | 240 | P | H |
| | | 5150 | 48.84 | -5.16 | 54 | 35.00 | 31.86 | 11.19 | 29.21 | 214 | 78 | A | H |

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

**For Peak Limit @ 5150MHz:**

1. Level(dBμV/m)

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

= 31.86(dB/m) + 11.19(dB) + 45.00(dBμV) – 29.21 (dB)

= 58.84 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 58.84(dBμV/m) – 74(dBμV/m)

= -15.16(dB)

**For Average Limit @ 5150MHz:**

1. Level(dBμV/m)

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

= 31.86(dB/m) + 11.19(dB) + 35.00(dBμV) – 29.21 (dB)

= 48.84 (dBμV/m)

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

= 48.84 (dBμV/m) – 54(dBμV/m)

= -5.16 (dB)

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

**<Radio 2>**

**UNII-1 - 5150~5250MHz**

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

| WIFI | Note | Frequency | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Path Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ( MHz ) | ( dBµV/m ) | ( dB ) | ( dBµV/m ) | (dBµV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11a CH 36 5180MHz | | 5147.94 | 57.29 | -16.71 | 74 | 44.18 | 31.99 | 11.19 | 30.07 | 280 | 27 | P | H |
| | | 5144.82 | 48.46 | -5.54 | 54 | 35.35 | 31.99 | 11.19 | 30.07 | 280 | 27 | A | H |
| | * | 5180 | 119.56 | - | - | 106.63 | 31.77 | 11.23 | 30.07 | 280 | 27 | P | H |
| | * | 5180 | 111.04 | - | - | 98.11 | 31.77 | 11.23 | 30.07 | 280 | 27 | A | H |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | 5148.72 | 59.51 | -14.49 | 74 | 46.35 | 32.04 | 11.19 | 30.07 | 287 | 339 | P | V |
| | | 5149.5 | 53.37 | -0.63 | 54 | 40.21 | 32.04 | 11.19 | 30.07 | 287 | 339 | A | V |
| | * | 5180 | 120.42 | - | - | 107.37 | 31.89 | 11.23 | 30.07 | 287 | 339 | P | V |
| | * | 5180 | 111.76 | - | - | 98.71 | 31.89 | 11.23 | 30.07 | 287 | 339 | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 802.11a CH 44 5220MHz | | 5120.12 | 54.41 | -19.59 | 74 | 41.28 | 32.05 | 11.16 | 30.08 | 262 | 45 | P | H |
| | | 5129.22 | 46.61 | -7.39 | 54 | 33.48 | 32.03 | 11.17 | 30.07 | 262 | 45 | A | H |
| | * | 5220 | 121.73 | - | - | 108.97 | 31.54 | 11.28 | 30.06 | 262 | 45 | P | H |
| | * | 5220 | 115.06 | - | - | 102.3 | 31.54 | 11.28 | 30.06 | 262 | 45 | A | H |
| | | 5408.48 | 55.42 | -18.58 | 74 | 42.23 | 31.82 | 11.44 | 30.07 | 262 | 45 | P | H |
| | | 5412.96 | 47.68 | -6.32 | 54 | 34.47 | 31.84 | 11.44 | 30.07 | 262 | 45 | A | H |
| | | 5140.92 | 53.98 | -20.02 | 74 | 40.81 | 32.06 | 11.18 | 30.07 | 289 | 340 | P | V |
| | | 5126.36 | 45.82 | -8.18 | 54 | 32.64 | 32.09 | 11.16 | 30.07 | 289 | 340 | A | V |
| | * | 5220 | 122.33 | - | - | 109.4 | 31.71 | 11.28 | 30.06 | 289 | 340 | P | V |
| | * | 5220 | 115.22 | - | - | 102.29 | 31.71 | 11.28 | 30.06 | 289 | 340 | A | V |
| | | 5408.76 | 54.87 | -19.13 | 74 | 41.69 | 31.81 | 11.44 | 30.07 | 289 | 340 | P | V |
| | | 5414.92 | 47.68 | -6.32 | 54 | 34.48 | 31.83 | 11.44 | 30.07 | 289 | 340 | A | V |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **802.11a CH 48 5240MHz** | | 5150 | 53.14 | -20.86 | 74 | 40.04 | 31.98 | 11.19 | 30.07 | 333 | 15 | P | H |
| | | 5147.42 | 46.27 | -7.73 | 54 | 33.16 | 31.99 | 11.19 | 30.07 | 333 | 15 | A | H |
| | * | 5240 | 122.69 | - | - | 110 | 31.44 | 11.3 | 30.05 | 333 | 15 | P | H |
| | * | 5240 | 114.04 | - | - | 101.35 | 31.44 | 11.3 | 30.05 | 333 | 15 | A | H |
| | | 5431.44 | 54.55 | -19.45 | 74 | 41.25 | 31.92 | 11.46 | 30.08 | 333 | 15 | P | H |
| | | 5432.84 | 46.82 | -7.18 | 54 | 33.51 | 31.93 | 11.46 | 30.08 | 333 | 15 | A | H |
| | | 5139.88 | 52.57 | -21.43 | 74 | 39.4 | 32.06 | 11.18 | 30.07 | 301 | 340 | P | V |
| | | 5147.42 | 45.87 | -8.13 | 54 | 32.71 | 32.04 | 11.19 | 30.07 | 301 | 340 | A | V |
| | * | 5240 | 123.44 | - | - | 110.55 | 31.64 | 11.3 | 30.05 | 301 | 340 | P | V |
| | * | 5240 | 114.86 | - | - | 101.97 | 31.64 | 11.3 | 30.05 | 301 | 340 | A | V |
| | | 5434.8 | 54.02 | -19.98 | 74 | 40.74 | 31.9 | 11.46 | 30.08 | 301 | 340 | P | V |
| | | 5434.52 | 46.82 | -7.18 | 54 | 33.54 | 31.9 | 11.46 | 30.08 | 301 | 340 | A | V |
| Remark | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## UNII-1 5150~5250MHz

## WIFI 802.11a (Harmonic @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11a CH 36 5180MHz | | 10360 | 55.09 | -13.11 | 68.2 | 57.18 | 39.48 | 16.63 | 58.2 | - | - | P | H |
| | | 11488 | 52.8 | -21.2 | 74 | 54.3 | 40.14 | 17.61 | 59.25 | - | - | P | H |
| | | 11488 | 41.07 | -12.93 | 54 | 42.57 | 40.14 | 17.61 | 59.25 | - | - | A | H |
| | | 13347 | 51.9 | -22.1 | 74 | 54.17 | 39.49 | 19.21 | 60.97 | - | - | P | H |
| | | 13347 | 39.6 | -14.4 | 54 | 41.87 | 39.49 | 19.21 | 60.97 | - | - | A | H |
| | | 14491 | 52.17 | -21.83 | 74 | 51.66 | 41.76 | 20.04 | 61.29 | - | - | P | H |
| | | 14491 | 40.4 | -13.6 | 54 | 39.89 | 41.76 | 20.04 | 61.29 | - | - | A | H |
| | | 15540 | 54.04 | -19.96 | 74 | 56.51 | 37.99 | 20.71 | 61.17 | 204 | 169 | P | H |
| | | 15540 | 47.07 | -6.93 | 54 | 49.54 | 37.99 | 20.71 | 61.17 | 204 | 169 | A | H |
| | | 17989 | 60.76 | -13.24 | 74 | 45.8 | 48.15 | 23 | 56.19 | - | - | P | H |
| | | 17989 | 49.76 | -4.24 | 54 | 34.8 | 48.15 | 23 | 56.19 | - | - | A | H |
| | | | | | | | | | | | | | |
| | | 10360 | 57.84 | -10.36 | 68.2 | 59.95 | 39.46 | 16.63 | 58.2 | - | - | P | V |
| | | 11488 | 52.64 | -21.36 | 74 | 54.04 | 40.24 | 17.61 | 59.25 | - | - | P | V |
| | | 11488 | 40.9 | -13.1 | 54 | 42.3 | 40.24 | 17.61 | 59.25 | - | - | A | V |
| | | 13380 | 50.55 | -23.45 | 74 | 52.68 | 39.6 | 19.24 | 60.97 | - | - | P | V |
| | | 13380 | 39.48 | -14.52 | 54 | 41.61 | 39.6 | 19.24 | 60.97 | - | - | A | V |
| | | 14491 | 51.5 | -22.5 | 74 | 51.12 | 41.63 | 20.04 | 61.29 | - | - | P | V |
| | | 14491 | 39.97 | -14.03 | 54 | 39.59 | 41.63 | 20.04 | 61.29 | - | - | A | V |
| | | 15540 | 55.85 | -18.15 | 74 | 58.15 | 38.16 | 20.71 | 61.17 | 306 | 335 | P | V |
| | | 15540 | 48.45 | -5.55 | 54 | 50.75 | 38.16 | 20.71 | 61.17 | 306 | 335 | A | V |
| | | 17978 | 60.47 | -13.53 | 74 | 46.2 | 47.5 | 22.99 | 56.22 | - | - | P | V |
| | | 17978 | 49.47 | -4.53 | 54 | 35.2 | 47.5 | 22.99 | 56.22 | - | - | A | V |
| | | | | | | | | | | | | | |

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 10440 | 54.98 | -13.22 | 68.2 | 56.87 | 39.71 | 16.7 | 58.3 | - | - | P | H |
| | | 11477 | 52.46 | -21.54 | 74 | 53.94 | 40.15 | 17.6 | 59.23 | - | - | P | H |
| | | 11477 | 41.16 | -12.84 | 54 | 42.64 | 40.15 | 17.6 | 59.23 | - | - | A | H |
| | | 13369 | 51.94 | -22.06 | 74 | 54.12 | 39.56 | 19.23 | 60.97 | - | - | P | H |
| | | 13369 | 39.61 | -14.39 | 54 | 41.79 | 39.56 | 19.23 | 60.97 | - | - | A | H |
| | | 14491 | 52.4 | -21.6 | 74 | 51.89 | 41.76 | 20.04 | 61.29 | - | - | P | H |
| | | 14491 | 42.37 | -11.63 | 54 | 41.86 | 41.76 | 20.04 | 61.29 | - | - | A | H |
| | | 15660 | 51.45 | -22.55 | 74 | 54.2 | 37.57 | 20.79 | 61.11 | 269 | 334 | P | H |
| | | 15660 | 41.48 | -12.52 | 54 | 44.23 | 37.57 | 20.79 | 61.11 | 269 | 334 | A | H |
| | | 17967 | 60.71 | -13.29 | 74 | 46.4 | 47.59 | 22.97 | 56.25 | - | - | P | H |
| | | 17967 | 49.61 | -4.39 | 54 | 35.3 | 47.59 | 22.97 | 56.25 | - | - | A | H |
| **802.11a CH 44 5220MHz** | | | | | | | | | | | | | |
| | | 10440 | 58.57 | -9.63 | 68.2 | 60.44 | 39.73 | 16.7 | 58.3 | - | - | P | V |
| | | 11477 | 52.23 | -21.77 | 74 | 53.63 | 40.23 | 17.6 | 59.23 | - | - | P | V |
| | | 11477 | 41.1 | -12.9 | 54 | 42.5 | 40.23 | 17.6 | 59.23 | - | - | A | V |
| | | 13380 | 52.49 | -21.51 | 74 | 54.62 | 39.6 | 19.24 | 60.97 | - | - | P | V |
| | | 13380 | 39.92 | -14.08 | 54 | 42.05 | 39.6 | 19.24 | 60.97 | - | - | A | V |
| | | 14491 | 51.8 | -22.2 | 74 | 51.42 | 41.63 | 20.04 | 61.29 | - | - | P | V |
| | | 14491 | 40.49 | -13.51 | 54 | 40.11 | 41.63 | 20.04 | 61.29 | - | - | A | V |
| | | 15660 | 51.61 | -22.39 | 74 | 54.21 | 37.72 | 20.79 | 61.11 | 318 | 204 | P | V |
| | | 15660 | 40.57 | -13.43 | 54 | 43.17 | 37.72 | 20.79 | 61.11 | 318 | 204 | A | V |
| | | 17978 | 60.07 | -13.93 | 74 | 45.8 | 47.5 | 22.99 | 56.22 | - | - | P | V |
| | | 17978 | 49.17 | -4.83 | 54 | 34.9 | 47.5 | 22.99 | 56.22 | - | - | A | V |

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11a CH 48 5240MHz | | 10480 | 52.13 | -16.07 | 68.2 | 53.99 | 39.77 | 16.73 | 58.36 | - | - | P | H |
| | | 11092 | 52.49 | -21.51 | 74 | 54.3 | 40.07 | 17.25 | 59.13 | - | - | P | H |
| | | 11092 | 40.74 | -13.26 | 54 | 42.55 | 40.07 | 17.25 | 59.13 | - | - | A | H |
| | | 13369 | 52.28 | -21.72 | 74 | 54.46 | 39.56 | 19.23 | 60.97 | - | - | P | H |
| | | 13369 | 40.83 | -13.17 | 54 | 43.01 | 39.56 | 19.23 | 60.97 | - | - | A | H |
| | | 14491 | 52.27 | -21.73 | 74 | 51.76 | 41.76 | 20.04 | 61.29 | - | - | P | H |
| | | 14491 | 41.52 | -12.48 | 54 | 41.01 | 41.76 | 20.04 | 61.29 | - | - | A | H |
| | | 15720 | 49.33 | -24.67 | 74 | 52.26 | 37.3 | 20.83 | 61.06 | 238 | 227 | P | H |
| | | 15720 | 41.51 | -12.49 | 54 | 44.44 | 37.3 | 20.83 | 61.06 | 238 | 227 | A | H |
| | | 18000 | 61.08 | -12.92 | 74 | 45.8 | 48.43 | 23.01 | 56.16 | - | - | P | H |
| | | 18000 | 49.38 | -4.62 | 54 | 34.1 | 48.43 | 23.01 | 56.16 | - | - | A | H |
| | | | | | | | | | | | | | |
| | | 10480 | 54.05 | -14.15 | 68.2 | 55.86 | 39.82 | 16.73 | 58.36 | - | - | P | V |
| | | 11554 | 53.09 | -20.91 | 74 | 54.56 | 40.16 | 17.67 | 59.3 | - | - | P | V |
| | | 11554 | 41.12 | -12.88 | 54 | 42.59 | 40.16 | 17.67 | 59.3 | - | - | A | V |
| | | 13391 | 52.48 | -21.52 | 74 | 54.57 | 39.63 | 19.25 | 60.97 | - | - | P | V |
| | | 13391 | 39.94 | -14.06 | 54 | 42.03 | 39.63 | 19.25 | 60.97 | - | - | A | V |
| | | 14491 | 52.63 | -21.37 | 74 | 52.25 | 41.63 | 20.04 | 61.29 | - | - | P | V |
| | | 14491 | 41.85 | -12.15 | 54 | 41.47 | 41.63 | 20.04 | 61.29 | - | - | A | V |
| | | 15720 | 54.09 | -19.91 | 74 | 56.81 | 37.51 | 20.83 | 61.06 | 305 | 49 | P | V |
| | | 15720 | 46.19 | -7.81 | 54 | 48.91 | 37.51 | 20.83 | 61.06 | 305 | 49 | A | V |
| | | 17956 | 59.87 | -14.13 | 74 | 46.2 | 46.99 | 22.96 | 56.28 | - | - | P | V |
| | | 17956 | 49.27 | -4.73 | 54 | 35.6 | 46.99 | 22.96 | 56.28 | - | - | A | V |
| | | | | | | | | | | | | | |

**Remark**

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

## UNII-1 5150~5250MHz

## WIFI 802.11ax HE20 Full (Band Edge @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 5150.02 | 54.74 | -95.26 | 150 | 41.63 | 31.98 | 11.2 | 30.07 | 265 | 170 | P | H |
| | | 5150.02 | 48.85 | -101.15 | 150 | 35.74 | 31.98 | 11.2 | 30.07 | 265 | 170 | A | H |
| | * | 5180 | 121.34 | - | - | 108.41 | 31.77 | 11.23 | 30.07 | 265 | 170 | P | H |
| | * | 5180 | 109.92 | - | - | 96.99 | 31.77 | 11.23 | 30.07 | 265 | 170 | A | H |
| 802.11ax | | | | | | | | | | | | | |
| HE20 Full | | | | | | | | | | | | | |
| CH 36 | | 5149.76 | 60.65 | -13.35 | 74 | 47.49 | 32.04 | 11.19 | 30.07 | 301 | 340 | P | V |
| 5180MHz | | 5148.98 | 52.5 | -1.5 | 54 | 39.34 | 32.04 | 11.19 | 30.07 | 301 | 340 | A | V |
| | * | 5180 | 122.35 | - | - | 109.3 | 31.89 | 11.23 | 30.07 | 301 | 340 | P | V |
| | * | 5180 | 111.28 | - | - | 98.23 | 31.89 | 11.23 | 30.07 | 301 | 340 | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | 5119.6 | 53.98 | -20.02 | 74 | 40.85 | 32.05 | 11.16 | 30.08 | 266 | 164 | P | H |
| | | 5121.68 | 45.44 | -8.56 | 54 | 32.31 | 32.05 | 11.16 | 30.08 | 266 | 164 | A | H |
| | * | 5220 | 123.29 | - | - | 110.53 | 31.54 | 11.28 | 30.06 | 266 | 164 | P | H |
| | * | 5220 | 114.07 | - | - | 101.31 | 31.54 | 11.28 | 30.06 | 266 | 164 | A | H |
| 802.11ax | | 5374.04 | 55.13 | -18.87 | 74 | 42.13 | 31.66 | 11.41 | 30.07 | 266 | 164 | P | H |
| HE20 Full | | 5413.52 | 46.42 | -7.58 | 54 | 33.21 | 31.84 | 11.44 | 30.07 | 266 | 164 | A | H |
| CH 44 | | 5117.52 | 53.55 | -20.45 | 74 | 40.37 | 32.11 | 11.15 | 30.08 | 315 | 338 | P | V |
| 5220MHz | | 5149.76 | 45.14 | -8.86 | 54 | 31.98 | 32.04 | 11.19 | 30.07 | 315 | 338 | A | V |
| | * | 5220 | 122.2 | - | - | 109.27 | 31.71 | 11.28 | 30.06 | 315 | 338 | P | V |
| | * | 5220 | 114.19 | - | - | 101.26 | 31.71 | 11.28 | 30.06 | 315 | 338 | A | V |
| | | 5371.8 | 55.07 | -18.93 | 74 | 42.09 | 31.64 | 11.41 | 30.07 | 315 | 338 | P | V |
| | | 5408.2 | 46.43 | -7.57 | 54 | 33.26 | 31.8 | 11.44 | 30.07 | 315 | 338 | A | V |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 5138.84 | 53.94 | -20.06 | 74 | 40.82 | 32.01 | 11.18 | 30.07 | 273 | 164 | P | H |
| | | 5141.44 | 45.95 | -8.05 | 54 | 32.84 | 32 | 11.18 | 30.07 | 273 | 164 | A | H |
| | * | 5240 | 125 | - | - | 112.31 | 31.44 | 11.3 | 30.05 | 273 | 164 | P | H |
| | * | 5240 | 114.09 | - | - | 101.4 | 31.44 | 11.3 | 30.05 | 273 | 164 | A | H |
| **802.11ax** | | 5432.28 | 53.84 | -20.16 | 74 | 40.54 | 31.92 | 11.46 | 30.08 | 273 | 164 | P | H |
| **HE20 Full** | | 5433.12 | 45.77 | -8.23 | 54 | 32.46 | 31.93 | 11.46 | 30.08 | 273 | 164 | A | H |
| **CH 48** | | 5135.2 | 53.27 | -20.73 | 74 | 40.09 | 32.07 | 11.18 | 30.07 | 295 | 338 | P | V |
| **5240MHz** | | 5146.38 | 45.22 | -8.78 | 54 | 32.06 | 32.04 | 11.19 | 30.07 | 295 | 338 | A | V |
| | * | 5240 | 125.36 | - | - | 112.47 | 31.64 | 11.3 | 30.05 | 295 | 338 | P | V |
| | * | 5240 | 114 | - | - | 101.11 | 31.64 | 11.3 | 30.05 | 295 | 338 | A | V |
| | | 5428.92 | 54.44 | -19.56 | 74 | 41.18 | 31.88 | 11.46 | 30.08 | 295 | 338 | P | V |
| | | 5435.36 | 45.74 | -8.26 | 54 | 32.46 | 31.9 | 11.46 | 30.08 | 295 | 338 | A | V |
| Remark | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## UNII-1 5150~5250MHz

## WIFI 802.11ax HE20 Full (Harmonic @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 10360 | 52.77 | -15.43 | 68.2 | 65.41 | 39.48 | 16.63 | 68.75 | - | - | P | H |
| | | 11279 | 50.57 | -23.43 | 74 | 61.1 | 39.82 | 17.43 | 67.78 | - | - | P | H |
| | | 11279 | 41.58 | -12.42 | 54 | 52.11 | 39.82 | 17.43 | 67.78 | - | - | A | H |
| | | 13281 | 49.57 | -24.43 | 74 | 58.91 | 39.24 | 19.16 | 67.74 | - | - | P | H |
| | | 13281 | 41.89 | -12.11 | 54 | 51.23 | 39.24 | 19.16 | 67.74 | - | - | A | H |
| | | 14491 | 51.97 | -22.03 | 74 | 57.91 | 41.76 | 20.04 | 67.74 | - | - | P | H |
| | | 14491 | 43.87 | -10.13 | 54 | 49.81 | 41.76 | 20.04 | 67.74 | - | - | A | H |
| | | 15540 | 57.75 | -16.25 | 74 | 67.86 | 37.99 | 20.71 | 68.81 | 282 | 105 | P | H |
| | | 15540 | 42.78 | -11.22 | 54 | 52.89 | 37.99 | 20.71 | 68.81 | 282 | 105 | A | H |
| | | 18000 | 61.27 | -12.73 | 74 | 59.25 | 48.43 | 23.01 | 69.42 | - | - | P | H |
| 802.11ax | | 18000 | 51.97 | -2.03 | 54 | 49.95 | 48.43 | 23.01 | 69.42 | - | - | A | H |
| HE20 Full | | | | | | | | | | | | | |
| CH 36 | | 10360 | 56.21 | -11.99 | 68.2 | 68.87 | 39.46 | 16.63 | 68.75 | - | - | P | V |
| 5180MHz | | 11433 | 50.21 | -23.79 | 74 | 60.14 | 40.16 | 17.56 | 67.65 | - | - | P | V |
| | | 11433 | 41.56 | -12.44 | 54 | 51.49 | 40.16 | 17.56 | 67.65 | - | - | A | V |
| | | 13391 | 49.54 | -24.46 | 74 | 58.34 | 39.63 | 19.25 | 67.68 | - | - | P | V |
| | | 13391 | 43.12 | -10.88 | 54 | 51.92 | 39.63 | 19.25 | 67.68 | - | - | A | V |
| | | 14491 | 51.48 | -22.52 | 74 | 57.55 | 41.63 | 20.04 | 67.74 | - | - | P | V |
| | | 14491 | 43.64 | -10.36 | 54 | 49.71 | 41.63 | 20.04 | 67.74 | - | - | A | V |
| | | 15540 | 57.9 | -16.1 | 74 | 67.84 | 38.16 | 20.71 | 68.81 | 290 | 257 | P | V |
| | | 15540 | 43.35 | -10.65 | 54 | 53.29 | 38.16 | 20.71 | 68.81 | 290 | 257 | A | V |
| | | 18000 | 61 | -13 | 74 | 59.4 | 48.01 | 23.01 | 69.42 | - | - | P | V |
| | | 18000 | 50.4 | -3.6 | 54 | 48.8 | 48.01 | 23.01 | 69.42 | - | - | A | V |
| | | | | | | | | | | | | | |

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 10440 | 54.63 | -13.57 | 68.2 | 56.52 | 39.71 | 16.7 | 58.3 | - | - | P | H |
| | | 11576 | 52.9 | -21.1 | 74 | 54.46 | 40.08 | 17.69 | 59.33 | - | - | P | H |
| | | 11576 | 40.01 | -13.99 | 54 | 41.57 | 40.08 | 17.69 | 59.33 | - | - | A | H |
| | | 13391 | 51.83 | -22.17 | 74 | 53.91 | 39.64 | 19.25 | 60.97 | - | - | P | H |
| | | 13391 | 39.48 | -14.52 | 54 | 41.56 | 39.64 | 19.25 | 60.97 | - | - | A | H |
| | | 14491 | 52.71 | -21.29 | 74 | 52.2 | 41.76 | 20.04 | 61.29 | - | - | P | H |
| | | 14491 | 40.51 | -13.49 | 54 | 40 | 41.76 | 20.04 | 61.29 | - | - | A | H |
| | | 15660 | 50.95 | -23.05 | 74 | 53.7 | 37.57 | 20.79 | 61.11 | 243 | 152 | P | H |
| | | 15660 | 42.66 | -11.34 | 54 | 45.41 | 37.57 | 20.79 | 61.11 | 243 | 152 | A | H |
| | | 17967 | 60.41 | -13.59 | 74 | 46.1 | 47.59 | 22.97 | 56.25 | - | - | P | H |
| **802.11ax** | | 17967 | 49.11 | -4.89 | 54 | 34.8 | 47.59 | 22.97 | 56.25 | - | - | A | H |
| **HE20 Full** | | | | | | | | | | | | | |
| **CH 44** | | 10440 | 56.7 | -11.5 | 68.2 | 58.57 | 39.73 | 16.7 | 58.3 | - | - | P | V |
| **5220MHz** | | 11444 | 52.43 | -21.57 | 74 | 53.86 | 40.19 | 17.57 | 59.19 | - | - | P | V |
| | | 11444 | 39.79 | -14.21 | 54 | 41.22 | 40.19 | 17.57 | 59.19 | - | - | A | V |
| | | 13391 | 51.72 | -22.28 | 74 | 53.81 | 39.63 | 19.25 | 60.97 | - | - | P | V |
| | | 13391 | 40.14 | -13.86 | 54 | 42.23 | 39.63 | 19.25 | 60.97 | - | - | A | V |
| | | 14491 | 52.69 | -21.31 | 74 | 52.31 | 41.63 | 20.04 | 61.29 | - | - | P | V |
| | | 14491 | 41.26 | -12.74 | 54 | 40.88 | 41.63 | 20.04 | 61.29 | - | - | A | V |
| | | 15660 | 50.96 | -23.04 | 74 | 53.56 | 37.72 | 20.79 | 61.11 | 331 | 235 | P | V |
| | | 15660 | 42.21 | -11.79 | 54 | 44.81 | 37.72 | 20.79 | 61.11 | 331 | 235 | A | V |
| | | 17978 | 60.07 | -13.93 | 74 | 45.8 | 47.5 | 22.99 | 56.22 | - | - | P | V |
| | | 17978 | 49.97 | -4.03 | 54 | 35.7 | 47.5 | 22.99 | 56.22 | - | - | A | V |
| | | | | | | | | | | | | | |

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 10480 | 52.66 | -15.54 | 68.2 | 54.52 | 39.77 | 16.73 | 58.36 | - | - | P | H |
| | | 11587 | 52.49 | -21.51 | 74 | 54.1 | 40.04 | 17.7 | 59.35 | - | - | P | H |
| | | 11587 | 40.65 | -13.35 | 54 | 42.26 | 40.04 | 17.7 | 59.35 | - | - | A | H |
| | | 13380 | 51.08 | -22.92 | 74 | 53.21 | 39.6 | 19.24 | 60.97 | - | - | P | H |
| | | 13380 | 40.43 | -13.57 | 54 | 42.56 | 39.6 | 19.24 | 60.97 | - | - | A | H |
| | | 14491 | 51.61 | -22.39 | 74 | 51.1 | 41.76 | 20.04 | 61.29 | - | - | P | H |
| | | 14491 | 40.6 | -13.4 | 54 | 40.09 | 41.76 | 20.04 | 61.29 | - | - | A | H |
| | | 15720 | 49.52 | -24.48 | 74 | 52.45 | 37.3 | 20.83 | 61.06 | 241 | 118 | P | H |
| | | 15720 | 41.65 | -12.35 | 54 | 44.58 | 37.3 | 20.83 | 61.06 | 241 | 118 | A | H |
| | | 17978 | 60.43 | -13.57 | 74 | 45.79 | 47.87 | 22.99 | 56.22 | - | - | P | H |
| **802.11ax** | | 17978 | 49.73 | -4.27 | 54 | 35.09 | 47.87 | 22.99 | 56.22 | - | - | A | H |
| **HE20 Full** | | | | | | | | | | | | | |
| **CH 48** | | 10480 | 53.53 | -14.67 | 68.2 | 55.34 | 39.82 | 16.73 | 58.36 | - | - | P | V |
| **5240MHz** | | 11510 | 52.56 | -21.44 | 74 | 53.97 | 40.23 | 17.63 | 59.27 | - | - | P | V |
| | | 11510 | 40.76 | -13.24 | 54 | 42.17 | 40.23 | 17.63 | 59.27 | - | - | A | V |
| | | 13380 | 51.42 | -22.58 | 74 | 53.55 | 39.6 | 19.24 | 60.97 | - | - | P | V |
| | | 13380 | 40.43 | -13.57 | 54 | 42.56 | 39.6 | 19.24 | 60.97 | - | - | A | V |
| | | 14491 | 52.06 | -21.94 | 74 | 51.68 | 41.63 | 20.04 | 61.29 | - | - | P | V |
| | | 14491 | 40.47 | -13.53 | 54 | 40.09 | 41.63 | 20.04 | 61.29 | - | - | A | V |
| | | 15720 | 50.2 | -23.8 | 74 | 52.92 | 37.51 | 20.83 | 61.06 | 324 | 226 | P | V |
| | | 15720 | 42.33 | -11.67 | 54 | 45.05 | 37.51 | 20.83 | 61.06 | 324 | 226 | A | V |
| | | 17967 | 60.07 | -13.93 | 74 | 46.1 | 47.25 | 22.97 | 56.25 | - | - | P | V |
| | | 17967 | 49.57 | -4.43 | 54 | 35.6 | 47.25 | 22.97 | 56.25 | - | - | A | V |
| | | | | | | | | | | | | | |

**Remark**

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

## UNII-1 5150~5250MHz

## WIFI 802.11ax HE40 Full (Band Edge @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11ax HE40 Full CH 38 5190MHz | | 5148.98 | 61.53 | -12.47 | 74 | 48.43 | 31.98 | 11.19 | 30.07 | 267 | 162 | P | H |
| | | 5148.46 | 52.51 | -1.49 | 54 | 39.4 | 31.99 | 11.19 | 30.07 | 267 | 162 | A | H |
| | * | 5190 | 119.37 | - | - | 106.48 | 31.71 | 11.25 | 30.07 | 267 | 162 | P | H |
| | * | 5190 | 109.55 | - | - | 96.66 | 31.71 | 11.25 | 30.07 | 267 | 162 | A | H |
| | | 5388.32 | 53.25 | -20.75 | 74 | 40.17 | 31.73 | 11.42 | 30.07 | 267 | 162 | P | H |
| | | 5383.84 | 44.43 | -9.57 | 54 | 31.38 | 31.7 | 11.42 | 30.07 | 267 | 162 | A | H |
| | | 5148.98 | 59.44 | -14.56 | 74 | 46.28 | 32.04 | 11.19 | 30.07 | 316 | 341 | P | V |
| | | 5145.08 | 50.53 | -3.47 | 54 | 37.36 | 32.05 | 11.19 | 30.07 | 316 | 341 | A | V |
| | * | 5190 | 118.27 | - | - | 105.25 | 31.84 | 11.25 | 30.07 | 316 | 341 | P | V |
| | * | 5190 | 109.68 | - | - | 96.66 | 31.84 | 11.25 | 30.07 | 316 | 341 | A | V |
| | | 5384.12 | 53.39 | -20.61 | 74 | 40.34 | 31.7 | 11.42 | 30.07 | 316 | 341 | P | V |
| | | 5384.68 | 45.03 | -8.97 | 54 | 31.98 | 31.7 | 11.42 | 30.07 | 316 | 341 | A | V |
| 802.11ax HE40 Full CH 46 5230MHz | | 5145.6 | 59.08 | -14.92 | 74 | 45.97 | 31.99 | 11.19 | 30.07 | 270 | 162 | P | H |
| | | 5148.98 | 52.32 | -1.68 | 54 | 39.22 | 31.98 | 11.19 | 30.07 | 270 | 162 | A | H |
| | * | 5230 | 122.11 | - | - | 109.39 | 31.49 | 11.29 | 30.06 | 270 | 162 | P | H |
| | * | 5230 | 113.3 | - | - | 100.58 | 31.49 | 11.29 | 30.06 | 270 | 162 | A | H |
| | | 5424.44 | 53.35 | -20.65 | 74 | 40.08 | 31.89 | 11.45 | 30.07 | 270 | 162 | P | H |
| | | 5350.24 | 45.46 | -8.54 | 54 | 32.59 | 31.54 | 11.4 | 30.07 | 270 | 162 | A | H |
| | | 5146.64 | 58.14 | -15.86 | 74 | 44.98 | 32.04 | 11.19 | 30.07 | 314 | 339 | P | V |
| | | 5145.86 | 50.13 | -3.87 | 54 | 36.97 | 32.04 | 11.19 | 30.07 | 314 | 339 | A | V |
| | * | 5230 | 122.22 | - | - | 109.32 | 31.67 | 11.29 | 30.06 | 314 | 339 | P | V |
| | * | 5230 | 112.93 | - | - | 100.03 | 31.67 | 11.29 | 30.06 | 314 | 339 | A | V |
| | | 5353.32 | 54.09 | -19.91 | 74 | 41.21 | 31.55 | 11.4 | 30.07 | 314 | 339 | P | V |
| | | 5418.56 | 45.5 | -8.5 | 54 | 32.28 | 31.84 | 11.45 | 30.07 | 314 | 339 | A | V |
| **Remark** | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## UNII-1 5150~5250MHz

## WIFI 802.11ax HE40 Full (Harmonic @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 10380 | 51.92 | -16.28 | 68.2 | 53.95 | 39.55 | 16.64 | 58.22 | - | - | P | H |
| | | 11499 | 52.72 | -21.28 | 74 | 54.24 | 40.14 | 17.61 | 59.27 | - | - | P | H |
| | | 11499 | 40.76 | -13.24 | 54 | 42.28 | 40.14 | 17.61 | 59.27 | - | - | A | H |
| | | 13380 | 52.28 | -21.72 | 74 | 54.41 | 39.6 | 19.24 | 60.97 | - | - | P | H |
| | | 13380 | 40.76 | -13.24 | 54 | 42.89 | 39.6 | 19.24 | 60.97 | - | - | A | H |
| | | 14491 | 53.21 | -20.79 | 74 | 52.7 | 41.76 | 20.04 | 61.29 | - | - | P | H |
| | | 14491 | 41 | -13 | 54 | 40.49 | 41.76 | 20.04 | 61.29 | - | - | A | H |
| | | 15570 | 53.59 | -20.41 | 74 | 56.13 | 37.88 | 20.73 | 61.15 | 318 | 101 | P | H |
| | | 15570 | 46.69 | -7.31 | 54 | 49.23 | 37.88 | 20.73 | 61.15 | 318 | 101 | A | H |
| | | 18000 | 61.98 | -12.02 | 74 | 46.7 | 48.43 | 23.01 | 56.16 | - | - | P | H |
| 802.11ax | | 18000 | 50.38 | -3.62 | 54 | 35.1 | 48.43 | 23.01 | 56.16 | - | - | A | H |
| HE40 Full | | | | | | | | | | | | | |
| CH 38 | | 10380 | 56.74 | -11.46 | 68.2 | 58.77 | 39.55 | 16.64 | 58.22 | - | - | P | V |
| 5190MHz | | 11466 | 52.58 | -21.42 | 74 | 53.99 | 40.22 | 17.59 | 59.22 | - | - | P | V |
| | | 11466 | 41.7 | -12.3 | 54 | 43.11 | 40.22 | 17.59 | 59.22 | - | - | A | V |
| | | 13380 | 51.48 | -22.52 | 74 | 53.61 | 39.6 | 19.24 | 60.97 | - | - | P | V |
| | | 13380 | 40.33 | -13.67 | 54 | 42.46 | 39.6 | 19.24 | 60.97 | - | - | A | V |
| | | 14491 | 53.26 | -20.74 | 74 | 52.88 | 41.63 | 20.04 | 61.29 | - | - | P | V |
| | | 14491 | 41.08 | -12.92 | 54 | 40.7 | 41.63 | 20.04 | 61.29 | - | - | A | V |
| | | 15570 | 56.72 | -17.28 | 74 | 59.12 | 38.02 | 20.73 | 61.15 | 395 | 58 | P | V |
| | | 15570 | 48.37 | -5.63 | 54 | 50.77 | 38.02 | 20.73 | 61.15 | 395 | 58 | A | V |
| | | 17956 | 61.07 | -12.93 | 74 | 47.4 | 46.99 | 22.96 | 56.28 | - | - | P | V |
| | | 17956 | 49.97 | -4.03 | 54 | 36.3 | 46.99 | 22.96 | 56.28 | - | - | A | V |
| | | | | | | | | | | | | | |

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 10460 | 52.34 | -15.86 | 68.2 | 54.22 | 39.74 | 16.71 | 58.33 | - | - | P | H |
| | | 11444 | 52.3 | -21.7 | 74 | 53.77 | 40.15 | 17.57 | 59.19 | - | - | P | H |
| | | 11444 | 42.24 | -11.76 | 54 | 43.71 | 40.15 | 17.57 | 59.19 | - | - | A | H |
| | | 13369 | 51.49 | -22.51 | 74 | 53.67 | 39.56 | 19.23 | 60.97 | - | - | P | H |
| | | 13369 | 40.39 | -13.61 | 54 | 42.57 | 39.56 | 19.23 | 60.97 | - | - | A | H |
| | | 14491 | 52.95 | -21.05 | 74 | 52.44 | 41.76 | 20.04 | 61.29 | - | - | P | H |
| | | 14491 | 41.11 | -12.89 | 54 | 40.6 | 41.76 | 20.04 | 61.29 | - | - | A | H |
| | | 15690 | 52.77 | -21.23 | 74 | 55.61 | 37.41 | 20.81 | 61.06 | 302 | 111 | P | H |
| | | 15690 | 46.27 | -7.73 | 54 | 49.11 | 37.41 | 20.81 | 61.06 | 302 | 111 | A | H |
| | | 18000 | 60.78 | -13.22 | 74 | 45.5 | 48.43 | 23.01 | 56.16 | - | - | P | H |
| **802.11ax** | | 18000 | 50.48 | -3.52 | 54 | 35.2 | 48.43 | 23.01 | 56.16 | - | - | A | H |
| **HE40 Full** | | | | | | | | | | | | | |
| **CH 46** | | 10460 | 54.55 | -13.65 | 68.2 | 56.39 | 39.78 | 16.71 | 58.33 | - | - | P | V |
| **5230MHz** | | 11466 | 52.27 | -21.73 | 74 | 53.68 | 40.22 | 17.59 | 59.22 | - | - | P | V |
| | | 11466 | 41.1 | -12.9 | 54 | 42.51 | 40.22 | 17.59 | 59.22 | - | - | A | V |
| | | 13369 | 50.95 | -23.05 | 74 | 53.12 | 39.57 | 19.23 | 60.97 | - | - | P | V |
| | | 13369 | 40.29 | -13.71 | 54 | 42.46 | 39.57 | 19.23 | 60.97 | - | - | A | V |
| | | 14491 | 51.88 | -22.12 | 74 | 51.5 | 41.63 | 20.04 | 61.29 | - | - | P | V |
| | | 14491 | 41.28 | -12.72 | 54 | 40.9 | 41.63 | 20.04 | 61.29 | - | - | A | V |
| | | 15690 | 55.88 | -18.12 | 74 | 58.51 | 37.62 | 20.81 | 61.06 | 388 | 60 | P | V |
| | | 15690 | 47.28 | -6.72 | 54 | 49.91 | 37.62 | 20.81 | 61.06 | 388 | 60 | A | V |
| | | 17989 | 60.16 | -13.84 | 74 | 45.59 | 47.76 | 23 | 56.19 | - | - | P | V |
| | | 17989 | 50.16 | -3.84 | 54 | 35.59 | 47.76 | 23 | 56.19 | - | - | A | V |
| | | | | | | | | | | | | | |

**Remark**

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

## UNII-1 5150~5250MHz

## WIFI 802.11ax HE80 Full (Band Edge @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11ax HE80 Full CH 42 5210MHz | | 5147.68 | 62.71 | -11.29 | 74 | 49.6 | 31.99 | 11.19 | 30.07 | 266 | 163 | P | H |
| | | 5148.2 | 53.4 | -0.6 | 54 | 40.29 | 31.99 | 11.19 | 30.07 | 266 | 163 | A | H |
| | * | 5210 | 113.89 | - | - | 101.1 | 31.59 | 11.27 | 30.07 | 266 | 163 | P | H |
| | * | 5210 | 105 | - | - | 92.21 | 31.59 | 11.27 | 30.07 | 266 | 163 | A | H |
| | | 5351.08 | 53.55 | -20.45 | 74 | 40.67 | 31.55 | 11.4 | 30.07 | 266 | 163 | P | H |
| | | 5350.8 | 46.95 | -7.05 | 54 | 34.07 | 31.55 | 11.4 | 30.07 | 266 | 163 | A | H |
| | | 5145.86 | 59.84 | -14.16 | 74 | 46.68 | 32.04 | 11.19 | 30.07 | 312 | 340 | P | V |
| | | 5145.86 | 51.7 | -2.3 | 54 | 38.54 | 32.04 | 11.19 | 30.07 | 312 | 340 | A | V |
| | * | 5210 | 113.45 | - | - | 100.5 | 31.75 | 11.27 | 30.07 | 312 | 340 | P | V |
| | * | 5210 | 105.4 | - | - | 92.45 | 31.75 | 11.27 | 30.07 | 312 | 340 | A | V |
| | | 5353.04 | 56.43 | -17.57 | 74 | 43.55 | 31.55 | 11.4 | 30.07 | 312 | 340 | P | V |
| | | 5352.76 | 47 | -7 | 54 | 34.12 | 31.55 | 11.4 | 30.07 | 312 | 340 | A | V |
| Remark | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## UNII-1 5150~5250MHz

## WIFI 802.11ax HE80 Full (Harmonic @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 10420 | 50.34 | -17.86 | 68.2 | 52.25 | 39.67 | 16.69 | 58.27 | - | - | P | H |
| | | 11565 | 52.48 | -21.52 | 74 | 53.99 | 40.12 | 17.68 | 59.31 | - | - | P | H |
| | | 11565 | 41.99 | -12.01 | 54 | 43.5 | 40.12 | 17.68 | 59.31 | - | - | A | H |
| | | 13358 | 51.41 | -22.59 | 74 | 53.63 | 39.53 | 19.22 | 60.97 | - | - | P | H |
| | | 13358 | 40.46 | -13.54 | 54 | 42.68 | 39.53 | 19.22 | 60.97 | - | - | A | H |
| | | 14491 | 52.49 | -21.51 | 74 | 51.98 | 41.76 | 20.04 | 61.29 | - | - | P | H |
| | | 14491 | 40.59 | -13.41 | 54 | 40.08 | 41.76 | 20.04 | 61.29 | - | - | A | H |
| | | 15630 | 48.79 | -25.21 | 74 | 51.46 | 37.69 | 20.77 | 61.13 | 241 | 116 | P | H |
| | | 15630 | 39.84 | -14.16 | 54 | 42.51 | 37.69 | 20.77 | 61.13 | 241 | 116 | A | H |
| | | 17978 | 60.23 | -13.77 | 74 | 45.59 | 47.87 | 22.99 | 56.22 | - | - | P | H |
| **802.11ax** | | 17978 | 49.83 | -4.17 | 54 | 35.19 | 47.87 | 22.99 | 56.22 | - | - | A | H |
| **HE80 Full** | | | | | | | | | | | | | |
| **CH 42** | | 10420 | 53.01 | -15.19 | 68.2 | 54.91 | 39.68 | 16.69 | 58.27 | - | - | P | V |
| **5210MHz** | | 11466 | 53.4 | -20.6 | 74 | 54.81 | 40.22 | 17.59 | 59.22 | - | - | P | V |
| | | 11466 | 41.54 | -12.46 | 54 | 42.95 | 40.22 | 17.59 | 59.22 | - | - | A | V |
| | | 13380 | 52.33 | -21.67 | 74 | 54.46 | 39.6 | 19.24 | 60.97 | - | - | P | V |
| | | 13380 | 40.03 | -13.97 | 54 | 42.16 | 39.6 | 19.24 | 60.97 | - | - | A | V |
| | | 14491 | 52.13 | -21.87 | 74 | 51.75 | 41.63 | 20.04 | 61.29 | - | - | P | V |
| | | 14491 | 40.8 | -13.2 | 54 | 40.42 | 41.63 | 20.04 | 61.29 | - | - | A | V |
| | | 15630 | 49.71 | -24.29 | 74 | 52.27 | 37.8 | 20.77 | 61.13 | 300 | 209 | P | V |
| | | 15630 | 41.45 | -12.55 | 54 | 44.01 | 37.8 | 20.77 | 61.13 | 300 | 209 | A | V |
| | | 17989 | 60.76 | -13.24 | 74 | 46.19 | 47.76 | 23 | 56.19 | - | - | P | V |
| | | 17989 | 50.26 | -3.74 | 54 | 35.69 | 47.76 | 23 | 56.19 | - | - | A | V |
| | | | | | | | | | | | | | |

**Remark**

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

**UNII-1 5150~5250MHz**

**WIFI 802.11ax HE80+80 Full (Band Edge @ 3m)**

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11ax HE80+80 Full CH 42+58 5210MHz + 5290MHz | | 5130 | 57.96 | -16.04 | 74 | 44.83 | 32.03 | 11.17 | 30.07 | 292 | 163 | P | H |
| | | 5130 | 53.83 | -0.17 | 54 | 40.7 | 32.03 | 11.17 | 30.07 | 292 | 163 | A | H |
| | * | 5210 | 108 | - | - | 95.21 | 31.59 | 11.27 | 30.07 | 292 | 163 | P | H |
| | * | 5210 | 100.43 | - | - | 87.64 | 31.59 | 11.27 | 30.07 | 292 | 163 | A | H |
| | * | 5290 | 108.32 | - | - | 95.63 | 31.4 | 11.36 | 30.07 | 292 | 163 | P | H |
| | * | 5290 | 99.8 | - | - | 87.11 | 31.4 | 11.36 | 30.07 | 292 | 163 | A | H |
| | | 5357.52 | 57.19 | -16.81 | 74 | 44.28 | 31.58 | 11.4 | 30.07 | 292 | 163 | P | H |
| | | 5361.16 | 50.29 | -3.71 | 54 | 37.35 | 31.6 | 11.41 | 30.07 | 292 | 163 | A | H |
| | | 5147.42 | 57.62 | -16.38 | 74 | 44.46 | 32.04 | 11.19 | 30.07 | 344 | 343 | P | V |
| | | 5150 | 47.72 | -6.28 | 54 | 34.57 | 32.03 | 11.19 | 30.07 | 344 | 343 | A | V |
| | * | 5210 | 108.26 | - | - | 95.31 | 31.75 | 11.27 | 30.07 | 344 | 343 | P | V |
| | * | 5210 | 100.18 | - | - | 87.23 | 31.75 | 11.27 | 30.07 | 344 | 343 | A | V |
| | * | 5290 | 109.61 | - | - | 96.89 | 31.43 | 11.36 | 30.07 | 344 | 343 | P | V |
| | * | 5290 | 101.22 | - | - | 88.5 | 31.43 | 11.36 | 30.07 | 344 | 343 | A | V |
| | | 5365.08 | 59.28 | -14.72 | 74 | 46.33 | 31.61 | 11.41 | 30.07 | 344 | 343 | P | V |
| | | 5351.36 | 52.25 | -1.75 | 54 | 39.38 | 31.54 | 11.4 | 30.07 | 344 | 343 | A | V |
| **Remark** | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## UNII-1 5150~5250MHz

## WIFI 802.11ax HE80+80 Full (Harmonic @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11ax HE80+80 Full CH 42+58 5210MHz 5290MHz | | 10420 | 51.28 | -16.92 | 68.2 | 53.19 | 39.67 | 16.69 | 58.27 | - | - | P | H |
| | | 10575 | 50.91 | -17.29 | 68.2 | 52.75 | 39.85 | 16.81 | 58.5 | - | - | P | H |
| | | 11455 | 52.84 | -21.16 | 74 | 54.3 | 40.16 | 17.58 | 59.2 | - | - | P | H |
| | | 11455 | 41.1 | -12.9 | 54 | 42.56 | 40.16 | 17.58 | 59.2 | - | - | A | H |
| | | 13369 | 51.83 | -22.17 | 74 | 54.01 | 39.56 | 19.23 | 60.97 | - | - | P | H |
| | | 13369 | 40.68 | -13.32 | 54 | 42.86 | 39.56 | 19.23 | 60.97 | - | - | A | H |
| | | 14491 | 51.37 | -22.63 | 74 | 50.86 | 41.76 | 20.04 | 61.29 | - | - | P | H |
| | | 14491 | 40.92 | -13.08 | 54 | 40.41 | 41.76 | 20.04 | 61.29 | - | - | A | H |
| | | 15630 | 47.9 | -26.1 | 74 | 50.57 | 37.69 | 20.77 | 61.13 | - | - | P | H |
| | | 15870 | 47.92 | -26.08 | 74 | 50.92 | 36.94 | 20.94 | 60.88 | - | - | P | H |
| | | 17934 | 61.34 | -12.66 | 74 | 47.94 | 46.79 | 22.94 | 56.33 | - | - | P | H |
| | | 17934 | 50.66 | -3.34 | 54 | 37.26 | 46.79 | 22.94 | 56.33 | - | - | A | H |
| | | 10420 | 49.92 | -18.28 | 68.2 | 51.82 | 39.68 | 16.69 | 58.27 | - | - | P | V |
| | | 10575 | 51.41 | -16.79 | 68.2 | 53.3 | 39.8 | 16.81 | 58.5 | - | - | P | V |
| | | 11323 | 53.24 | -20.76 | 74 | 54.95 | 39.93 | 17.46 | 59.1 | - | - | P | V |
| | | 11323 | 40.83 | -13.17 | 54 | 42.54 | 39.93 | 17.46 | 59.1 | - | - | A | V |
| | | 13369 | 51.49 | -22.51 | 74 | 53.66 | 39.57 | 19.23 | 60.97 | - | - | P | V |
| | | 13369 | 40.55 | -13.45 | 54 | 42.72 | 39.57 | 19.23 | 60.97 | - | - | A | V |
| | | 14491 | 52.83 | -21.17 | 74 | 52.45 | 41.63 | 20.04 | 61.29 | - | - | P | V |
| | | 14491 | 40.27 | -13.73 | 54 | 39.89 | 41.63 | 20.04 | 61.29 | - | - | A | V |
| | | 15630 | 47.9 | -26.1 | 74 | 50.46 | 37.8 | 20.77 | 61.13 | - | - | P | V |
| | | 15870 | 47.91 | -26.09 | 74 | 50.62 | 37.23 | 20.94 | 60.88 | - | - | P | V |
| | | 17934 | 61.45 | -12.55 | 74 | 48.31 | 46.53 | 22.94 | 56.33 | - | - | P | V |
| | | 17934 | 50.47 | -3.53 | 54 | 37.33 | 46.53 | 22.94 | 56.33 | - | - | A | V |
| **Remark** | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line.<br>3. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.<br>4. The emission level close to 18GHz is checked that the average emission level is noise floor only. | | | | | | | | | | | | |

## UNII-2A - 5250~5350MHz

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

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11a CH 52 5260MHz | | 5116.62 | 53.56 | -20.44 | 74 | 40.43 | 32.06 | 11.15 | 30.08 | 256 | 95 | P | H |
| | | 5144.16 | 45.14 | -8.86 | 54 | 32.02 | 32 | 11.19 | 30.07 | 256 | 95 | A | H |
| | * | 5260 | 123.39 | - | - | 110.72 | 31.4 | 11.33 | 30.06 | 256 | 95 | P | H |
| | * | 5260 | 115.3 | - | - | 102.63 | 31.4 | 11.33 | 30.06 | 256 | 95 | A | H |
| | | 5355.84 | 54.27 | -19.73 | 74 | 41.37 | 31.57 | 11.4 | 30.07 | 256 | 95 | P | H |
| | | 5358.96 | 47.44 | -6.56 | 54 | 34.51 | 31.59 | 11.41 | 30.07 | 256 | 95 | A | H |
| | | 5101.66 | 55.98 | -18.02 | 74 | 42.78 | 32.15 | 11.13 | 30.08 | 327 | 340 | P | V |
| | | 5147.22 | 45.17 | -8.83 | 54 | 32.01 | 32.04 | 11.19 | 30.07 | 327 | 340 | A | V |
| | * | 5260 | 123.02 | - | - | 110.19 | 31.56 | 11.33 | 30.06 | 327 | 340 | P | V |
| | * | 5260 | 115.48 | - | - | 102.65 | 31.56 | 11.33 | 30.06 | 327 | 340 | A | V |
| | | 5408.16 | 54.86 | -19.14 | 74 | 41.69 | 31.8 | 11.44 | 30.07 | 327 | 340 | P | V |
| | | 5360.64 | 48.12 | -5.88 | 54 | 35.2 | 31.58 | 11.41 | 30.07 | 327 | 340 | A | V |
| 802.11a CH 60 5300MHz | | 5120.02 | 54.27 | -19.73 | 74 | 41.14 | 32.05 | 11.16 | 30.08 | 256 | 94 | P | H |
| | | 5114.58 | 45.34 | -8.66 | 54 | 32.2 | 32.07 | 11.15 | 30.08 | 256 | 94 | A | H |
| | * | 5300 | 122.42 | - | - | 109.73 | 31.4 | 11.37 | 30.08 | 256 | 94 | P | H |
| | * | 5300 | 115.08 | - | - | 102.39 | 31.4 | 11.37 | 30.08 | 256 | 94 | A | H |
| | | 5356.56 | 54.57 | -19.43 | 74 | 41.67 | 31.57 | 11.4 | 30.07 | 256 | 94 | P | H |
| | | 5399.04 | 47.41 | -6.59 | 54 | 34.27 | 31.78 | 11.43 | 30.07 | 256 | 94 | A | H |
| | | 5117.98 | 53.69 | -20.31 | 74 | 40.51 | 32.11 | 11.15 | 30.08 | 311 | 340 | P | V |
| | | 5147.22 | 45.05 | -8.95 | 54 | 31.89 | 32.04 | 11.19 | 30.07 | 311 | 340 | A | V |
| | * | 5300 | 122.76 | - | - | 110.08 | 31.39 | 11.37 | 30.08 | 311 | 340 | P | V |
| | * | 5300 | 115.35 | - | - | 102.67 | 31.39 | 11.37 | 30.08 | 311 | 340 | A | V |
| | | 5350.08 | 58.77 | -15.23 | 74 | 45.91 | 31.53 | 11.4 | 30.07 | 311 | 340 | P | V |
| | | 5350.08 | 53.48 | -0.52 | 54 | 40.62 | 31.53 | 11.4 | 30.07 | 311 | 340 | A | V |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11a CH 64 5320MHz | * | 5320 | 119.16 | - | - | 106.4 | 31.46 | 11.38 | 30.08 | 308 | 14 | P | H |
| | * | 5320 | 111.39 | - | - | 98.63 | 31.46 | 11.38 | 30.08 | 308 | 14 | A | H |
| | | 5362.24 | 56.74 | -17.26 | 74 | 43.8 | 31.6 | 11.41 | 30.07 | 308 | 14 | P | H |
| | | 5362.88 | 49.29 | -4.71 | 54 | 36.35 | 31.6 | 11.41 | 30.07 | 308 | 14 | A | H |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | * | 5320 | 119.86 | - | - | 107.11 | 31.45 | 11.38 | 30.08 | 315 | 341 | P | V |
| | * | 5320 | 112.24 | - | - | 99.49 | 31.45 | 11.38 | 30.08 | 315 | 341 | A | V |
| | | 5350.4 | 59.9 | -14.1 | 74 | 47.03 | 31.54 | 11.4 | 30.07 | 315 | 341 | P | V |
| | | 5352.16 | 53.14 | -0.86 | 54 | 40.27 | 31.54 | 11.4 | 30.07 | 315 | 341 | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

**Remark**

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

## UNII-2A 5250~5350MHz

## WIFI 802.11a (Harmonic @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11a CH 52 5260MHz | | 10520 | 52.81 | -15.39 | 68.2 | 54.61 | 39.84 | 16.77 | 58.41 | - | - | P | H |
| | | 11301 | 52.13 | -21.87 | 74 | 53.96 | 39.83 | 17.44 | 59.1 | - | - | P | H |
| | | 11301 | 40.78 | -13.22 | 54 | 42.61 | 39.83 | 17.44 | 59.1 | - | - | A | H |
| | | 13358 | 50.67 | -23.33 | 74 | 52.89 | 39.53 | 19.22 | 60.97 | - | - | P | H |
| | | 13358 | 40.89 | -13.11 | 54 | 43.11 | 39.53 | 19.22 | 60.97 | - | - | A | H |
| | | 14491 | 53.11 | -20.89 | 74 | 52.6 | 41.76 | 20.04 | 61.29 | - | - | P | H |
| | | 14491 | 40.56 | -13.44 | 54 | 40.05 | 41.76 | 20.04 | 61.29 | - | - | A | H |
| | | 15780 | 50.63 | -23.37 | 74 | 53.66 | 37.13 | 20.88 | 61.04 | 246 | 235 | P | H |
| | | 15780 | 41.48 | -12.52 | 54 | 44.51 | 37.13 | 20.88 | 61.04 | 246 | 235 | A | H |
| | | 17934 | 60.89 | -13.11 | 74 | 47.49 | 46.79 | 22.94 | 56.33 | - | - | P | H |
| | | 17934 | 49.59 | -4.41 | 54 | 36.19 | 46.79 | 22.94 | 56.33 | - | - | A | H |
| | | | | | | | | | | | | | |
| | | 10520 | 54.84 | -13.36 | 68.2 | 56.63 | 39.85 | 16.77 | 58.41 | - | - | P | V |
| | | 11521 | 52.36 | -21.64 | 74 | 53.78 | 40.22 | 17.64 | 59.28 | - | - | P | V |
| | | 11521 | 41.39 | -12.61 | 54 | 42.81 | 40.22 | 17.64 | 59.28 | - | - | A | V |
| | | 13391 | 51.38 | -22.62 | 74 | 53.47 | 39.63 | 19.25 | 60.97 | - | - | P | V |
| | | 13391 | 40.47 | -13.53 | 54 | 42.56 | 39.63 | 19.25 | 60.97 | - | - | A | V |
| | | 14491 | 52.23 | -21.77 | 74 | 51.85 | 41.63 | 20.04 | 61.29 | - | - | P | V |
| | | 14491 | 40.16 | -13.84 | 54 | 39.78 | 41.63 | 20.04 | 61.29 | - | - | A | V |
| | | 15780 | 50.83 | -23.17 | 74 | 53.64 | 37.35 | 20.88 | 61.04 | 300 | 228 | P | V |
| | | 15780 | 41.74 | -12.26 | 54 | 44.55 | 37.35 | 20.88 | 61.04 | 300 | 228 | A | V |
| | | 17989 | 60.66 | -13.34 | 74 | 46.09 | 47.76 | 23 | 56.19 | - | - | P | V |
| | | 17989 | 50.36 | -3.64 | 54 | 35.79 | 47.76 | 23 | 56.19 | - | - | A | V |
| | | | | | | | | | | | | | |

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11a CH 60 5300MHz | | 10600 | 51.37 | -22.63 | 74 | 63.27 | 39.81 | 16.83 | 68.54 | 400 | 127 | P | H |
| | | 10600 | 42.82 | -11.18 | 54 | 54.72 | 39.81 | 16.83 | 68.54 | 400 | 127 | A | H |
| | | 11213 | 50.22 | -23.78 | 74 | 60.85 | 39.85 | 17.36 | 67.84 | - | - | P | H |
| | | 11213 | 39.52 | -14.48 | 54 | 50.15 | 39.85 | 17.36 | 67.84 | - | - | A | H |
| | | 13325 | 50.01 | -23.99 | 74 | 59.12 | 39.41 | 19.2 | 67.72 | - | - | P | H |
| | | 13325 | 42.01 | -11.99 | 54 | 51.12 | 39.41 | 19.2 | 67.72 | - | - | A | H |
| | | 14491 | 52.7 | -21.3 | 74 | 58.64 | 41.76 | 20.04 | 67.74 | - | - | P | H |
| | | 14491 | 43.91 | -10.09 | 54 | 49.85 | 41.76 | 20.04 | 67.74 | - | - | A | H |
| | | 15900 | 48.44 | -25.56 | 74 | 58.86 | 36.92 | 20.96 | 68.3 | 277 | 187 | P | H |
| | | 15900 | 40.44 | -13.56 | 54 | 50.86 | 36.92 | 20.96 | 68.3 | 277 | 187 | A | H |
| | | 17978 | 60.24 | -13.76 | 74 | 58.8 | 47.87 | 22.99 | 69.42 | - | - | P | H |
| | | 17978 | 49.94 | -4.06 | 54 | 48.5 | 47.87 | 22.99 | 69.42 | - | - | A | H |
| | | 10600 | 53 | -21 | 74 | 64.95 | 39.76 | 16.83 | 68.54 | 100 | 231 | P | V |
| | | 10600 | 45.24 | -8.76 | 54 | 57.19 | 39.76 | 16.83 | 68.54 | 100 | 231 | A | V |
| | | 11345 | 49.95 | -24.05 | 74 | 60.25 | 39.94 | 17.48 | 67.72 | - | - | P | V |
| | | 11345 | 41.04 | -12.96 | 54 | 51.34 | 39.94 | 17.48 | 67.72 | - | - | A | V |
| | | 13292 | 50.61 | -23.39 | 74 | 59.89 | 39.28 | 19.17 | 67.73 | - | - | P | V |
| | | 13292 | 42.78 | -11.22 | 54 | 52.06 | 39.28 | 19.17 | 67.73 | - | - | A | V |
| | | 14491 | 51.94 | -22.06 | 74 | 58.01 | 41.63 | 20.04 | 67.74 | - | - | P | V |
| | | 14491 | 43.68 | -10.32 | 54 | 49.75 | 41.63 | 20.04 | 67.74 | - | - | A | V |
| | | 15900 | 48.45 | -25.55 | 74 | 58.59 | 37.2 | 20.96 | 68.3 | 139 | 60 | P | V |
| | | 15900 | 39.9 | -14.1 | 54 | 50.04 | 37.2 | 20.96 | 68.3 | 139 | 60 | A | V |
| | | 17945 | 60.08 | -13.92 | 74 | 59.8 | 46.75 | 22.95 | 69.42 | - | - | P | V |
| | | 17945 | 49.48 | -4.52 | 54 | 49.2 | 46.75 | 22.95 | 69.42 | - | - | A | V |

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11a CH 64 5320MHz | | 10640 | 54.97 | -19.03 | 74 | 56.96 | 39.8 | 16.87 | 58.66 | 248 | 250 | P | H |
| | | 10640 | 45.89 | -8.11 | 54 | 47.88 | 39.8 | 16.87 | 58.66 | 248 | 250 | A | H |
| | | 11609 | 51.97 | -22.03 | 74 | 53.71 | 39.93 | 17.71 | 59.38 | - | - | P | H |
| | | 11609 | 40.84 | -13.16 | 54 | 42.58 | 39.93 | 17.71 | 59.38 | - | - | A | H |
| | | 13380 | 51.72 | -22.28 | 74 | 53.85 | 39.6 | 19.24 | 60.97 | - | - | P | H |
| | | 13380 | 40.52 | -13.48 | 54 | 42.65 | 39.6 | 19.24 | 60.97 | - | - | A | H |
| | | 14491 | 51.92 | -22.08 | 74 | 51.41 | 41.76 | 20.04 | 61.29 | - | - | P | H |
| | | 14491 | 40.57 | -13.43 | 54 | 40.06 | 41.76 | 20.04 | 61.29 | - | - | A | H |
| | | 15960 | 55.36 | -18.64 | 74 | 58.16 | 36.96 | 21 | 60.76 | 325 | 258 | P | H |
| | | 15960 | 47.01 | -6.99 | 54 | 49.81 | 36.96 | 21 | 60.76 | 325 | 258 | A | H |
| | | 17967 | 60.51 | -13.49 | 74 | 46.2 | 47.59 | 22.97 | 56.25 | - | - | P | H |
| | | 17967 | 49.51 | -4.49 | 54 | 35.2 | 47.59 | 22.97 | 56.25 | - | - | A | H |
| | | 10640 | 54.99 | -19.01 | 74 | 56.99 | 39.79 | 16.87 | 58.66 | 317 | 196 | P | V |
| | | 10640 | 45.6 | -8.4 | 54 | 47.6 | 39.79 | 16.87 | 58.66 | 317 | 196 | A | V |
| | | 11543 | 52.66 | -21.34 | 74 | 54.1 | 40.19 | 17.66 | 59.29 | - | - | P | V |
| | | 11543 | 41.16 | -12.84 | 54 | 42.6 | 40.19 | 17.66 | 59.29 | - | - | A | V |
| | | 13369 | 51.47 | -22.53 | 74 | 53.64 | 39.57 | 19.23 | 60.97 | - | - | P | V |
| | | 13369 | 40.4 | -13.6 | 54 | 42.57 | 39.57 | 19.23 | 60.97 | - | - | A | V |
| | | 14491 | 51.44 | -22.56 | 74 | 51.06 | 41.63 | 20.04 | 61.29 | - | - | P | V |
| | | 14491 | 40.27 | -13.73 | 54 | 39.89 | 41.63 | 20.04 | 61.29 | - | - | A | V |
| | | 15960 | 56.57 | -17.43 | 74 | 59.19 | 37.14 | 21 | 60.76 | 400 | 272 | P | V |
| | | 15960 | 48.29 | -5.71 | 54 | 50.91 | 37.14 | 21 | 60.76 | 400 | 272 | A | V |
| | | 17967 | 60.27 | -13.73 | 74 | 46.3 | 47.25 | 22.97 | 56.25 | - | - | P | V |
| | | 17967 | 49.77 | -4.23 | 54 | 35.8 | 47.25 | 22.97 | 56.25 | - | - | A | V |

**Remark**

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

## UNII-2A 5250~5350MHz

## WIFI 802.11ax HE20 Full (Band Edge @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 5148.24 | 53.31 | -20.69 | 74 | 40.2 | 31.99 | 11.19 | 30.07 | 286 | 168 | P | H |
| | | 5137.7 | 44.72 | -9.28 | 54 | 31.6 | 32.01 | 11.18 | 30.07 | 286 | 168 | A | H |
| | * | 5260 | 123.2 | - | - | 110.53 | 31.4 | 11.33 | 30.06 | 286 | 168 | P | H |
| | * | 5260 | 113.99 | - | - | 101.32 | 31.4 | 11.33 | 30.06 | 286 | 168 | A | H |
| 802.11ax | | 5447.52 | 54.65 | -19.35 | 74 | 41.27 | 31.99 | 11.47 | 30.08 | 286 | 168 | P | H |
| HE20 Full | | 5361.6 | 46.56 | -7.44 | 54 | 33.62 | 31.6 | 11.41 | 30.07 | 286 | 168 | A | H |
| CH 52 | | 5107.78 | 53.56 | -20.44 | 74 | 40.37 | 32.13 | 11.14 | 30.08 | 270 | 343 | P | V |
| 5260MHz | | 5088.06 | 44.67 | -9.33 | 54 | 31.56 | 32.11 | 11.08 | 30.08 | 270 | 343 | A | V |
| | * | 5260 | 122.59 | - | - | 109.76 | 31.56 | 11.33 | 30.06 | 270 | 343 | P | V |
| | * | 5260 | 114.11 | - | - | 101.28 | 31.56 | 11.33 | 30.06 | 270 | 343 | A | V |
| | | 5457.6 | 55.02 | -18.98 | 74 | 41.66 | 31.96 | 11.48 | 30.08 | 270 | 343 | P | V |
| | | 5350.08 | 47.1 | -6.9 | 54 | 34.24 | 31.53 | 11.4 | 30.07 | 270 | 343 | A | V |
| | | 5146.88 | 53.27 | -20.73 | 74 | 40.16 | 31.99 | 11.19 | 30.07 | 281 | 166 | P | H |
| | | 5148.92 | 44.69 | -9.31 | 54 | 31.59 | 31.98 | 11.19 | 30.07 | 281 | 166 | A | H |
| | * | 5300 | 121.59 | - | - | 108.9 | 31.4 | 11.37 | 30.08 | 281 | 166 | P | H |
| | * | 5300 | 113.9 | - | - | 101.21 | 31.4 | 11.37 | 30.08 | 281 | 166 | A | H |
| 802.11ax | | 5358.48 | 54.95 | -19.05 | 74 | 42.03 | 31.58 | 11.41 | 30.07 | 281 | 166 | P | H |
| HE20 Full | | 5357.04 | 46.97 | -7.03 | 54 | 34.06 | 31.58 | 11.4 | 30.07 | 281 | 166 | A | H |
| CH 60 | | 5085.68 | 54.66 | -19.34 | 74 | 41.57 | 32.1 | 11.07 | 30.08 | 276 | 342 | P | V |
| 5300MHz | | 5112.88 | 44.99 | -9.01 | 54 | 31.8 | 32.12 | 11.15 | 30.08 | 276 | 342 | A | V |
| | * | 5300 | 123.37 | - | - | 110.69 | 31.39 | 11.37 | 30.08 | 276 | 342 | P | V |
| | * | 5300 | 114.58 | - | - | 101.9 | 31.39 | 11.37 | 30.08 | 276 | 342 | A | V |
| | | 5351.28 | 61.22 | -12.78 | 74 | 48.35 | 31.54 | 11.4 | 30.07 | 276 | 342 | P | V |
| | | 5351.52 | 52.19 | -1.81 | 54 | 39.32 | 31.54 | 11.4 | 30.07 | 276 | 342 | A | V |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | * | 5320 | 119.53 | - | - | 106.77 | 31.46 | 11.38 | 30.08 | 261 | 164 | P | H |
| | * | 5320 | 109.77 | - | - | 97.01 | 31.46 | 11.38 | 30.08 | 261 | 164 | A | H |
| | | 5423.2 | 54.38 | -19.62 | 74 | 41.12 | 31.88 | 11.45 | 30.07 | 261 | 164 | P | H |
| | | 5359.04 | 46.68 | -7.32 | 54 | 33.75 | 31.59 | 11.41 | 30.07 | 261 | 164 | A | H |
| **802.11ax** | | | | | | | | | | | | | |
| **HE20 Full** | | | | | | | | | | | | | |
| **CH 64** | * | 5320 | 118.67 | - | - | 105.92 | 31.45 | 11.38 | 30.08 | 278 | 339 | P | V |
| **5320MHz** | * | 5320 | 110.79 | - | - | 98.04 | 31.45 | 11.38 | 30.08 | 278 | 339 | A | V |
| | | 5350.08 | 58.57 | -15.43 | 74 | 45.71 | 31.53 | 11.4 | 30.07 | 278 | 339 | P | V |
| | | 5350.24 | 53.01 | -0.99 | 54 | 40.14 | 31.54 | 11.4 | 30.07 | 278 | 339 | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| | |
|---|---|
| **Remark** | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |

## UNII-2A 5250~5350MHz

## WIFI 802.11ax HE20 Full (Harmonic @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 10520 | 51.86 | -16.34 | 68.2 | 53.66 | 39.84 | 16.77 | 58.41 | - | - | P | H |
| | | 11422 | 52.33 | -21.67 | 74 | 53.87 | 40.12 | 17.55 | 59.21 | - | - | P | H |
| | | 11422 | 40.91 | -13.09 | 54 | 42.45 | 40.12 | 17.55 | 59.21 | - | - | A | H |
| | | 13380 | 51.52 | -22.48 | 74 | 53.65 | 39.6 | 19.24 | 60.97 | - | - | P | H |
| | | 13380 | 40.38 | -13.62 | 54 | 42.51 | 39.6 | 19.24 | 60.97 | - | - | A | H |
| | | 14491 | 52.1 | -21.9 | 74 | 51.59 | 41.76 | 20.04 | 61.29 | - | - | P | H |
| | | 14491 | 40.3 | -13.7 | 54 | 39.79 | 41.76 | 20.04 | 61.29 | - | - | A | H |
| | | 15780 | 50.61 | -23.39 | 74 | 53.64 | 37.13 | 20.88 | 61.04 | 288 | 55 | P | H |
| | | 15780 | 42.47 | -11.53 | 54 | 45.5 | 37.13 | 20.88 | 61.04 | 288 | 55 | A | H |
| | | 17967 | 60.11 | -13.89 | 74 | 45.8 | 47.59 | 22.97 | 56.25 | - | - | P | H |
| 802.11ax | | 17967 | 49.81 | -4.19 | 54 | 35.5 | 47.59 | 22.97 | 56.25 | - | - | A | H |
| HE20 Full | | | | | | | | | | | | | |
| CH 52 | | 10520 | 55.49 | -12.71 | 68.2 | 57.28 | 39.85 | 16.77 | 58.41 | - | - | P | V |
| 5260MHz | | 11389 | 52.47 | -21.53 | 74 | 54.1 | 40.04 | 17.53 | 59.2 | - | - | P | V |
| | | 11389 | 40.59 | -13.41 | 54 | 42.22 | 40.04 | 17.53 | 59.2 | - | - | A | V |
| | | 13281 | 52.01 | -21.99 | 74 | 54.58 | 39.23 | 19.16 | 60.96 | - | - | P | V |
| | | 13281 | 40.99 | -13.01 | 54 | 43.56 | 39.23 | 19.16 | 60.96 | - | - | A | V |
| | | 14491 | 51.72 | -22.28 | 74 | 51.34 | 41.63 | 20.04 | 61.29 | - | - | P | V |
| | | 14491 | 40.44 | -13.56 | 54 | 40.06 | 41.63 | 20.04 | 61.29 | - | - | A | V |
| | | 15780 | 51.13 | -22.87 | 74 | 53.94 | 37.35 | 20.88 | 61.04 | 304 | 163 | P | V |
| | | 15780 | 43.3 | -10.7 | 54 | 46.11 | 37.35 | 20.88 | 61.04 | 304 | 163 | A | V |
| | | 17967 | 60.87 | -13.13 | 74 | 46.9 | 47.25 | 22.97 | 56.25 | - | - | P | V |
| | | 17967 | 50.07 | -3.93 | 54 | 36.1 | 47.25 | 22.97 | 56.25 | - | - | A | V |
| | | | | | | | | | | | | | |

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 10600 | 51.31 | -22.69 | 74 | 53.23 | 39.81 | 16.83 | 58.56 | 148 | 59 | P | H |
| | | 10600 | 43.04 | -10.96 | 54 | 44.96 | 39.81 | 16.83 | 58.56 | 148 | 59 | A | H |
| | | 11455 | 52.49 | -21.51 | 74 | 53.95 | 40.16 | 17.58 | 59.2 | - | - | P | H |
| | | 11455 | 41.09 | -12.91 | 54 | 42.55 | 40.16 | 17.58 | 59.2 | - | - | A | H |
| | | 13391 | 52.03 | -21.97 | 74 | 54.11 | 39.64 | 19.25 | 60.97 | - | - | P | H |
| | | 13391 | 41.02 | -12.98 | 54 | 43.1 | 39.64 | 19.25 | 60.97 | - | - | A | H |
| | | 14491 | 52.72 | -21.28 | 74 | 52.21 | 41.76 | 20.04 | 61.29 | - | - | P | H |
| | | 14491 | 40.46 | -13.54 | 54 | 39.95 | 41.76 | 20.04 | 61.29 | - | - | A | H |
| | | 15900 | 51.2 | -22.8 | 74 | 54.15 | 36.92 | 20.96 | 60.83 | 258 | 316 | P | H |
| | | 15900 | 42.68 | -11.32 | 54 | 45.63 | 36.92 | 20.96 | 60.83 | 258 | 316 | A | H |
| **802.11ax** | | 18000 | 60.78 | -13.22 | 74 | 45.5 | 48.43 | 23.01 | 56.16 | - | - | P | H |
| **HE20 Full** | | 18000 | 50.18 | -3.82 | 54 | 34.9 | 48.43 | 23.01 | 56.16 | - | - | A | H |
| **CH 60** | | 10600 | 55.88 | -18.12 | 74 | 57.85 | 39.76 | 16.83 | 58.56 | 100 | 226 | P | V |
| **5300MHz** | | 10600 | 46.54 | -7.46 | 54 | 48.51 | 39.76 | 16.83 | 58.56 | 100 | 226 | A | V |
| | | 11477 | 52.24 | -21.76 | 74 | 53.64 | 40.23 | 17.6 | 59.23 | - | - | P | V |
| | | 11477 | 41.15 | -12.85 | 54 | 42.55 | 40.23 | 17.6 | 59.23 | - | - | A | V |
| | | 13391 | 50.7 | -23.3 | 74 | 52.79 | 39.63 | 19.25 | 60.97 | - | - | P | V |
| | | 13391 | 40.38 | -13.62 | 54 | 42.47 | 39.63 | 19.25 | 60.97 | - | - | A | V |
| | | 14491 | 51.71 | -22.29 | 74 | 51.33 | 41.63 | 20.04 | 61.29 | - | - | P | V |
| | | 14491 | 40.78 | -13.22 | 54 | 40.4 | 41.63 | 20.04 | 61.29 | - | - | A | V |
| | | 15900 | 50.32 | -23.68 | 74 | 52.99 | 37.2 | 20.96 | 60.83 | 297 | 188 | P | V |
| | | 15900 | 43.14 | -10.86 | 54 | 45.81 | 37.2 | 20.96 | 60.83 | 297 | 188 | A | V |
| | | 17989 | 60.36 | -13.64 | 74 | 45.79 | 47.76 | 23 | 56.19 | - | - | P | V |
| | | 17989 | 50.26 | -3.74 | 54 | 35.69 | 47.76 | 23 | 56.19 | - | - | A | V |

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 10640 | 53.21 | -20.79 | 74 | 55.2 | 39.8 | 16.87 | 58.66 | 388 | 114 | P | H |
| | | 10640 | 46.51 | -7.49 | 54 | 48.5 | 39.8 | 16.87 | 58.66 | 388 | 114 | A | H |
| | | 11521 | 52.12 | -21.88 | 74 | 53.6 | 40.16 | 17.64 | 59.28 | - | - | P | H |
| | | 11521 | 41.63 | -12.37 | 54 | 43.11 | 40.16 | 17.64 | 59.28 | - | - | A | H |
| | | 13347 | 51.3 | -22.7 | 74 | 53.57 | 39.49 | 19.21 | 60.97 | - | - | P | H |
| | | 13347 | 40.86 | -13.14 | 54 | 43.13 | 39.49 | 19.21 | 60.97 | - | - | A | H |
| | | 14491 | 51.38 | -22.62 | 74 | 50.87 | 41.76 | 20.04 | 61.29 | - | - | P | H |
| | | 14491 | 40.57 | -13.43 | 54 | 40.06 | 41.76 | 20.04 | 61.29 | - | - | A | H |
| | | 15960 | 49.62 | -24.38 | 74 | 52.42 | 36.96 | 21 | 60.76 | 265 | 232 | P | H |
| | | 15960 | 41.61 | -12.39 | 54 | 44.41 | 36.96 | 21 | 60.76 | 265 | 232 | A | H |
| 802.11ax | | 17945 | 60.88 | -13.12 | 74 | 47.2 | 47.04 | 22.95 | 56.31 | - | - | P | H |
| HE20 Full | | 17945 | 49.88 | -4.12 | 54 | 36.2 | 47.04 | 22.95 | 56.31 | - | - | A | H |
| CH 64 | | 10640 | 55.85 | -18.15 | 74 | 57.85 | 39.79 | 16.87 | 58.66 | 100 | 229 | P | V |
| 5320MHz | | 10640 | 47.23 | -6.77 | 54 | 49.23 | 39.79 | 16.87 | 58.66 | 100 | 229 | A | V |
| | | 11378 | 52.82 | -21.18 | 74 | 54.47 | 40.01 | 17.51 | 59.17 | - | - | P | V |
| | | 11378 | 41.69 | -12.31 | 54 | 43.34 | 40.01 | 17.51 | 59.17 | - | - | A | V |
| | | 13369 | 50.65 | -23.35 | 74 | 52.82 | 39.57 | 19.23 | 60.97 | - | - | P | V |
| | | 13369 | 40.4 | -13.6 | 54 | 42.57 | 39.57 | 19.23 | 60.97 | - | - | A | V |
| | | 14491 | 52.37 | -21.63 | 74 | 51.99 | 41.63 | 20.04 | 61.29 | - | - | P | V |
| | | 14491 | 40.23 | -13.77 | 54 | 39.85 | 41.63 | 20.04 | 61.29 | - | - | A | V |
| | | 15960 | 50.28 | -23.72 | 74 | 52.9 | 37.14 | 21 | 60.76 | 297 | 137 | P | V |
| | | 15960 | 42.4 | -11.6 | 54 | 45.02 | 37.14 | 21 | 60.76 | 297 | 137 | A | V |
| | | 17989 | 61.16 | -12.84 | 74 | 46.59 | 47.76 | 23 | 56.19 | - | - | P | V |
| | | 17989 | 50.36 | -3.64 | 54 | 35.79 | 47.76 | 23 | 56.19 | - | - | A | V |

**Remark**

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

## UNII-2A 5250~5350MHz

## WIFI 802.11ax HE40 Full (Band Edge @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11ax HE40 Full CH 54 5270MHz | | 5128.52 | 55.78 | -18.22 | 74 | 42.65 | 32.03 | 11.17 | 30.07 | 289 | 163 | P | H |
| | | 5149.26 | 45.28 | -8.72 | 54 | 32.18 | 31.98 | 11.19 | 30.07 | 289 | 163 | A | H |
| | * | 5270 | 119.77 | - | - | 107.09 | 31.4 | 11.34 | 30.06 | 289 | 163 | P | H |
| | * | 5270 | 111.76 | - | - | 99.08 | 31.4 | 11.34 | 30.06 | 289 | 163 | A | H |
| | | 5357.52 | 60.71 | -13.29 | 74 | 47.8 | 31.58 | 11.4 | 30.07 | 289 | 163 | P | H |
| | | 5357.28 | 53.19 | -0.81 | 54 | 40.28 | 31.58 | 11.4 | 30.07 | 289 | 163 | A | H |
| | | 5047.26 | 53.76 | -20.24 | 74 | 40.97 | 31.96 | 10.91 | 30.08 | 276 | 22 | P | V |
| | | 5147.9 | 45.37 | -8.63 | 54 | 32.21 | 32.04 | 11.19 | 30.07 | 276 | 22 | A | V |
| | * | 5270 | 121.35 | - | - | 108.55 | 31.52 | 11.34 | 30.06 | 276 | 22 | P | V |
| | * | 5270 | 113.02 | - | - | 100.22 | 31.52 | 11.34 | 30.06 | 276 | 22 | A | V |
| | | 5369.04 | 60.84 | -13.16 | 74 | 47.87 | 31.63 | 11.41 | 30.07 | 276 | 22 | P | V |
| | | 5350.08 | 53.55 | -0.45 | 54 | 40.69 | 31.53 | 11.4 | 30.07 | 276 | 22 | A | V |
| 802.11ax HE40 Full CH 62 5310MHz | | 5113.9 | 53.27 | -20.73 | 74 | 40.13 | 32.07 | 11.15 | 30.08 | 256 | 50 | P | H |
| | | 5134.64 | 44.31 | -9.69 | 54 | 31.18 | 32.02 | 11.18 | 30.07 | 256 | 50 | A | H |
| | * | 5310 | 114.29 | - | - | 101.56 | 31.43 | 11.38 | 30.08 | 256 | 50 | P | H |
| | * | 5310 | 106.5 | - | - | 93.77 | 31.43 | 11.38 | 30.08 | 256 | 50 | A | H |
| | | 5360.4 | 55.05 | -18.95 | 74 | 42.12 | 31.59 | 11.41 | 30.07 | 256 | 50 | P | H |
| | | 5362.08 | 47.63 | -6.37 | 54 | 34.69 | 31.6 | 11.41 | 30.07 | 256 | 50 | A | H |
| | | 5107.1 | 53.13 | -20.87 | 74 | 39.94 | 32.13 | 11.14 | 30.08 | 298 | 342 | P | V |
| | | 5087.72 | 44.66 | -9.34 | 54 | 31.55 | 32.11 | 11.08 | 30.08 | 298 | 342 | A | V |
| | * | 5310 | 114.01 | - | - | 101.29 | 31.42 | 11.38 | 30.08 | 298 | 342 | P | V |
| | * | 5310 | 106.94 | - | - | 94.22 | 31.42 | 11.38 | 30.08 | 298 | 342 | A | V |
| | | 5350.08 | 60.03 | -13.97 | 74 | 47.17 | 31.53 | 11.4 | 30.07 | 298 | 342 | P | V |
| | | 5350.08 | 53.54 | -0.46 | 54 | 40.68 | 31.53 | 11.4 | 30.07 | 298 | 342 | A | V |
| **Remark** | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## UNII-2A 5250~5350MHz

## WIFI 802.11ax HE40 Full (Harmonic @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 10540 | 51.15 | -17.05 | 68.2 | 52.91 | 39.88 | 16.79 | 58.43 | - | - | P | H |
| | | 11466 | 52.48 | -21.52 | 74 | 53.96 | 40.15 | 17.59 | 59.22 | - | - | P | H |
| | | 11466 | 41.08 | -12.92 | 54 | 42.56 | 40.15 | 17.59 | 59.22 | - | - | A | H |
| | | 13369 | 50.69 | -23.31 | 74 | 52.87 | 39.56 | 19.23 | 60.97 | - | - | P | H |
| | | 13369 | 40.39 | -13.61 | 54 | 42.57 | 39.56 | 19.23 | 60.97 | - | - | A | H |
| | | 14491 | 51.93 | -22.07 | 74 | 51.42 | 41.76 | 20.04 | 61.29 | - | - | P | H |
| | | 14491 | 40.57 | -13.43 | 54 | 40.06 | 41.76 | 20.04 | 61.29 | - | - | A | H |
| | | 15810 | 50.02 | -23.98 | 74 | 53.07 | 37.05 | 20.9 | 61 | 263 | 205 | P | H |
| | | 15810 | 42.07 | -11.93 | 54 | 45.12 | 37.05 | 20.9 | 61 | 263 | 205 | A | H |
| | | 17989 | 61.16 | -12.84 | 74 | 46.2 | 48.15 | 23 | 56.19 | - | - | P | H |
| **802.11ax** | | 17989 | 50.26 | -3.74 | 54 | 35.3 | 48.15 | 23 | 56.19 | - | - | A | H |
| **HE40 Full** | | | | | | | | | | | | | |
| **CH 54** | | 10540 | 53.13 | -15.07 | 68.2 | 54.93 | 39.84 | 16.79 | 58.43 | - | - | P | V |
| **5270MHz** | | 11499 | 52.71 | -21.29 | 74 | 54.12 | 40.25 | 17.61 | 59.27 | - | - | P | V |
| | | 11499 | 42.11 | -11.89 | 54 | 43.52 | 40.25 | 17.61 | 59.27 | - | - | A | V |
| | | 13380 | 50.79 | -23.21 | 74 | 52.92 | 39.6 | 19.24 | 60.97 | - | - | P | V |
| | | 13380 | 40.34 | -13.66 | 54 | 42.47 | 39.6 | 19.24 | 60.97 | - | - | A | V |
| | | 14491 | 52.43 | -21.57 | 74 | 52.05 | 41.63 | 20.04 | 61.29 | - | - | P | V |
| | | 14491 | 40.15 | -13.85 | 54 | 39.77 | 41.63 | 20.04 | 61.29 | - | - | A | V |
| | | 15810 | 50.77 | -23.23 | 74 | 53.56 | 37.31 | 20.9 | 61 | 288 | 305 | P | V |
| | | 15810 | 42.18 | -11.82 | 54 | 44.97 | 37.31 | 20.9 | 61 | 288 | 305 | A | V |
| | | 17967 | 60.37 | -13.63 | 74 | 46.4 | 47.25 | 22.97 | 56.25 | - | - | P | V |
| | | 17967 | 49.57 | -4.43 | 54 | 35.6 | 47.25 | 22.97 | 56.25 | - | - | A | V |
| | | | | | | | | | | | | | |

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 10620 | 51 | -23 | 74 | 52.95 | 39.81 | 16.85 | 58.61 | 158 | 224 | P | H |
| | | 10620 | 42.15 | -11.85 | 54 | 44.1 | 39.81 | 16.85 | 58.61 | 158 | 224 | A | H |
| | | 11400 | 52.95 | -21.05 | 74 | 54.54 | 40.1 | 17.53 | 59.22 | - | - | P | H |
| | | 11400 | 40.97 | -13.03 | 54 | 42.56 | 40.1 | 17.53 | 59.22 | - | - | A | H |
| | | 13380 | 51.27 | -22.73 | 74 | 53.4 | 39.6 | 19.24 | 60.97 | - | - | P | H |
| | | 13380 | 40.59 | -13.41 | 54 | 42.72 | 39.6 | 19.24 | 60.97 | - | - | A | H |
| | | 14491 | 51.63 | -22.37 | 74 | 51.12 | 41.76 | 20.04 | 61.29 | - | - | P | H |
| | | 14491 | 40.57 | -13.43 | 54 | 40.06 | 41.76 | 20.04 | 61.29 | - | - | A | H |
| | | 15930 | 50.03 | -23.97 | 74 | 52.9 | 36.95 | 20.98 | 60.8 | 250 | 216 | P | H |
| | | 15930 | 41.57 | -12.43 | 54 | 44.44 | 36.95 | 20.98 | 60.8 | 250 | 216 | A | H |
| 802.11ax | | 18000 | 60.88 | -13.12 | 74 | 45.6 | 48.43 | 23.01 | 56.16 | - | - | P | H |
| HE40 Full | | 18000 | 50.58 | -3.42 | 54 | 35.3 | 48.43 | 23.01 | 56.16 | - | - | A | H |
| CH 62 | | 10620 | 54.51 | -19.49 | 74 | 56.49 | 39.78 | 16.85 | 58.61 | 115 | 208 | P | V |
| 5310MHz | | 10620 | 47.61 | -6.39 | 54 | 49.59 | 39.78 | 16.85 | 58.61 | 115 | 208 | A | V |
| | | 11400 | 52.81 | -21.19 | 74 | 54.43 | 40.07 | 17.53 | 59.22 | - | - | P | V |
| | | 11400 | 41.26 | -12.74 | 54 | 42.88 | 40.07 | 17.53 | 59.22 | - | - | A | V |
| | | 13380 | 52.79 | -21.21 | 74 | 54.92 | 39.6 | 19.24 | 60.97 | - | - | P | V |
| | | 13380 | 40.98 | -13.02 | 54 | 43.11 | 39.6 | 19.24 | 60.97 | - | - | A | V |
| | | 14491 | 52.46 | -21.54 | 74 | 52.08 | 41.63 | 20.04 | 61.29 | - | - | P | V |
| | | 14491 | 40.06 | -13.94 | 54 | 39.68 | 41.63 | 20.04 | 61.29 | - | - | A | V |
| | | 15930 | 51.2 | -22.8 | 74 | 53.85 | 37.17 | 20.98 | 60.8 | 269 | 167 | P | V |
| | | 15930 | 41.95 | -12.05 | 54 | 44.6 | 37.17 | 20.98 | 60.8 | 269 | 167 | A | V |
| | | 17978 | 60.07 | -13.93 | 74 | 45.8 | 47.5 | 22.99 | 56.22 | - | - | P | V |
| | | 17978 | 49.87 | -4.13 | 54 | 35.6 | 47.5 | 22.99 | 56.22 | - | - | A | V |

**Remark**

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

## UNII-2A 5250~5350MHz

## WIFI 802.11ax HE80 Full (Band Edge @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11ax HE80 Full CH 58 5290MHz | | 5135.32 | 54.21 | -19.79 | 74 | 41.08 | 32.02 | 11.18 | 30.07 | 295 | 164 | P | H |
| | | 5136.34 | 44.46 | -9.54 | 54 | 31.34 | 32.01 | 11.18 | 30.07 | 295 | 164 | A | H |
| | * | 5290 | 111.28 | - | - | 98.59 | 31.4 | 11.36 | 30.07 | 295 | 164 | P | H |
| | * | 5290 | 102.58 | - | - | 89.89 | 31.4 | 11.36 | 30.07 | 295 | 164 | A | H |
| | | 5356.32 | 59.54 | -14.46 | 74 | 46.64 | 31.57 | 11.4 | 30.07 | 295 | 164 | P | H |
| | | 5357.52 | 52.87 | -1.13 | 54 | 39.96 | 31.58 | 11.4 | 30.07 | 295 | 164 | A | H |
| | | 5144.84 | 53.81 | -20.19 | 74 | 40.64 | 32.05 | 11.19 | 30.07 | 288 | 22 | P | V |
| | | 5147.22 | 44.61 | -9.39 | 54 | 31.45 | 32.04 | 11.19 | 30.07 | 288 | 22 | A | V |
| | * | 5290 | 112.27 | - | - | 99.55 | 31.43 | 11.36 | 30.07 | 288 | 22 | P | V |
| | * | 5290 | 104.17 | - | - | 91.45 | 31.43 | 11.36 | 30.07 | 288 | 22 | A | V |
| | | 5354.64 | 61.57 | -12.43 | 74 | 48.68 | 31.56 | 11.4 | 30.07 | 288 | 22 | P | V |
| | | 5367.84 | 53.68 | -0.32 | 54 | 40.72 | 31.62 | 11.41 | 30.07 | 288 | 22 | A | V |
| Remark | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## UNII-2A 5250~5350MHz

## WIFI 802.11ax HE80 Full (Harmonic @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 10580 | 50.32 | -17.88 | 68.2 | 52.18 | 39.84 | 16.81 | 58.51 | - | - | P | H |
| | | 11488 | 52.62 | -21.38 | 74 | 54.12 | 40.14 | 17.61 | 59.25 | - | - | P | H |
| | | 11488 | 41.19 | -12.81 | 54 | 42.69 | 40.14 | 17.61 | 59.25 | - | - | A | H |
| | | 13380 | 51.49 | -22.51 | 74 | 53.62 | 39.6 | 19.24 | 60.97 | - | - | P | H |
| | | 13380 | 40.89 | -13.11 | 54 | 43.02 | 39.6 | 19.24 | 60.97 | - | - | A | H |
| | | 14491 | 53.73 | -20.27 | 74 | 53.22 | 41.76 | 20.04 | 61.29 | - | - | P | H |
| | | 14491 | 40.19 | -13.81 | 54 | 39.68 | 41.76 | 20.04 | 61.29 | - | - | A | H |
| | | 15870 | 49.9 | -24.1 | 74 | 52.9 | 36.94 | 20.94 | 60.88 | 217 | 263 | P | H |
| | | 15870 | 42.03 | -11.97 | 54 | 45.03 | 36.94 | 20.94 | 60.88 | 217 | 263 | A | H |
| | | 17978 | 60.23 | -13.77 | 74 | 45.59 | 47.87 | 22.99 | 56.22 | - | - | P | H |
| **802.11ax** | | 17978 | 50.23 | -3.77 | 54 | 35.59 | 47.87 | 22.99 | 56.22 | - | - | A | H |
| **HE80 Full** | | | | | | | | | | | | | |
| **CH 58** | | 10580 | 51.11 | -17.09 | 68.2 | 53.02 | 39.79 | 16.81 | 58.51 | - | - | P | V |
| **5290MHz** | | 11576 | 52.21 | -21.79 | 74 | 53.8 | 40.05 | 17.69 | 59.33 | - | - | P | V |
| | | 11576 | 41.52 | -12.48 | 54 | 43.11 | 40.05 | 17.69 | 59.33 | - | - | A | V |
| | | 13380 | 51.3 | -22.7 | 74 | 53.43 | 39.6 | 19.24 | 60.97 | - | - | P | V |
| | | 13380 | 40.75 | -13.25 | 54 | 42.88 | 39.6 | 19.24 | 60.97 | - | - | A | V |
| | | 14491 | 52.24 | -21.76 | 74 | 51.86 | 41.63 | 20.04 | 61.29 | - | - | P | V |
| | | 14491 | 40.47 | -13.53 | 54 | 40.09 | 41.63 | 20.04 | 61.29 | - | - | A | V |
| | | 15870 | 50.74 | -23.26 | 74 | 53.45 | 37.23 | 20.94 | 60.88 | 267 | 144 | P | V |
| | | 15870 | 42.42 | -11.58 | 54 | 45.13 | 37.23 | 20.94 | 60.88 | 267 | 144 | A | V |
| | | 17978 | 61.07 | -12.93 | 74 | 46.8 | 47.5 | 22.99 | 56.22 | - | - | P | V |
| | | 17978 | 49.67 | -4.33 | 54 | 35.4 | 47.5 | 22.99 | 56.22 | - | - | A | V |
| | | | | | | | | | | | | | |

**Remark**

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

## UNII-2C - 5470~5725MHz

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

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11a CH 100 5500MHz | | 5459.6 | 61.32 | -12.68 | 74 | 47.91 | 32.01 | 11.48 | 30.08 | 248 | 268 | P | H |
| | | 5462 | 60.26 | -7.94 | 68.2 | 46.84 | 32.01 | 11.49 | 30.08 | 248 | 268 | P | H |
| | | 5459.76 | 51.82 | -2.18 | 54 | 38.41 | 32.01 | 11.48 | 30.08 | 248 | 268 | A | H |
| | * | 5500 | 120.27 | - | - | 106.82 | 32.03 | 11.52 | 30.1 | 248 | 268 | P | H |
| | * | 5500 | 111.74 | - | - | 98.29 | 32.03 | 11.52 | 30.1 | 248 | 268 | A | H |
| | | | | | | | | | | | | | |
| | | 5457.52 | 62.71 | -11.29 | 74 | 49.35 | 31.96 | 11.48 | 30.08 | 328 | 327 | P | V |
| | | 5469.36 | 68.04 | -0.16 | 68.2 | 54.67 | 31.97 | 11.49 | 30.09 | 328 | 327 | P | V |
| | | 5457.2 | 52.65 | -1.35 | 54 | 39.29 | 31.96 | 11.48 | 30.08 | 328 | 327 | A | V |
| | * | 5500 | 121.97 | - | - | 108.57 | 31.98 | 11.52 | 30.1 | 328 | 327 | P | V |
| | * | 5500 | 113.44 | - | - | 100.04 | 31.98 | 11.52 | 30.1 | 328 | 327 | A | V |
| | | | | | | | | | | | | | |
| 802.11a CH 116 5580MHz | | 5431.84 | 54.79 | -19.21 | 74 | 41.49 | 31.92 | 11.46 | 30.08 | 244 | 268 | P | H |
| | | 5466.88 | 53.59 | -14.61 | 68.2 | 40.18 | 32.01 | 11.49 | 30.09 | 244 | 268 | P | H |
| | | 5457.52 | 46.17 | -7.83 | 54 | 32.76 | 32.01 | 11.48 | 30.08 | 244 | 268 | A | H |
| | * | 5580 | 121.44 | - | - | 107.94 | 31.99 | 11.62 | 30.11 | 244 | 268 | P | H |
| | * | 5580 | 112.71 | - | - | 99.21 | 31.99 | 11.62 | 30.11 | 244 | 268 | A | H |
| | | 5756.81 | 55.08 | -13.12 | 68.2 | 41.25 | 32.22 | 11.78 | 30.17 | 244 | 268 | P | H |
| | | 5441.92 | 55.39 | -18.61 | 74 | 42.07 | 31.93 | 11.47 | 30.08 | 276 | 353 | P | V |
| | | 5467.6 | 54.95 | -13.25 | 68.2 | 41.59 | 31.96 | 11.49 | 30.09 | 276 | 353 | P | V |
| | | 5390.8 | 47.29 | -6.71 | 54 | 34.21 | 31.73 | 11.42 | 30.07 | 276 | 353 | A | V |
| | * | 5580 | 123.48 | - | - | 109.91 | 32.06 | 11.62 | 30.11 | 276 | 353 | P | V |
| | * | 5580 | 114.97 | - | - | 101.4 | 32.06 | 11.62 | 30.11 | 276 | 353 | A | V |
| | | 5732.87 | 57.76 | -10.44 | 68.2 | 43.96 | 32.19 | 11.78 | 30.17 | 276 | 353 | P | V |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11a CH 140 5700MHz | * | 5700 | 119.4 | - | - | 105.74 | 32.04 | 11.78 | 30.16 | 248 | 78 | P | H |
| | * | 5700 | 111.98 | - | - | 98.32 | 32.04 | 11.78 | 30.16 | 248 | 78 | A | H |
| | | 5725.08 | 66.95 | -1.25 | 68.2 | 53.22 | 32.12 | 11.78 | 30.17 | 248 | 78 | P | H |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | * | 5700 | 121.02 | - | - | 107.28 | 32.12 | 11.78 | 30.16 | 266 | 351 | P | V |
| | * | 5700 | 113.86 | - | - | 100.12 | 32.12 | 11.78 | 30.16 | 266 | 351 | A | V |
| | | 5727.16 | 67.22 | -0.98 | 68.2 | 53.43 | 32.18 | 11.78 | 30.17 | 266 | 351 | P | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| **Remark** | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## UNII-2C - 5470~5725MHz

## WIFI 802.11a (Harmonic @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11000 | 57.38 | -16.62 | 74 | 67.97 | 40.26 | 17.17 | 68.02 | 378 | 1 | P | H |
| | | 11000 | 49.02 | -4.98 | 54 | 59.61 | 40.26 | 17.17 | 68.02 | 378 | 1 | A | H |
| | | 13347 | 51.42 | -22.58 | 74 | 60.42 | 39.49 | 19.21 | 67.7 | - | - | P | H |
| | | 13347 | 41.12 | -12.88 | 54 | 50.12 | 39.49 | 19.21 | 67.7 | - | - | A | H |
| | | 14491 | 52.56 | -21.44 | 74 | 58.5 | 41.76 | 20.04 | 67.74 | - | - | P | H |
| | | 14491 | 42.97 | -11.03 | 54 | 48.91 | 41.76 | 20.04 | 67.74 | - | - | A | H |
| | | 16500 | 49.88 | -18.32 | 68.2 | 57.95 | 38.33 | 21.47 | 67.87 | - | - | P | H |
| | | 17945 | 60.27 | -13.73 | 74 | 59.7 | 47.04 | 22.95 | 69.42 | - | - | P | H |
| | | 17945 | 49.77 | -4.23 | 54 | 49.2 | 47.04 | 22.95 | 69.42 | - | - | A | H |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 802.11a CH 100 5500MHz | | | | | | | | | | | | | |
| | | 11000 | 62.55 | -11.45 | 74 | 73.12 | 40.28 | 17.17 | 68.02 | 201 | 298 | P | V |
| | | 11000 | 53.58 | -0.42 | 54 | 64.15 | 40.28 | 17.17 | 68.02 | 201 | 298 | A | V |
| | | 13358 | 50.77 | -23.23 | 74 | 59.7 | 39.55 | 19.22 | 67.7 | - | - | P | V |
| | | 13358 | 42.49 | -11.51 | 54 | 51.42 | 39.55 | 19.22 | 67.7 | - | - | A | V |
| | | 14491 | 51.53 | -22.47 | 74 | 57.6 | 41.63 | 20.04 | 67.74 | - | - | P | V |
| | | 14491 | 42.94 | -11.06 | 54 | 49.01 | 41.63 | 20.04 | 67.74 | - | - | A | V |
| | | 16500 | 50.38 | -17.82 | 68.2 | 58.31 | 38.47 | 21.47 | 67.87 | - | - | P | V |
| | | 17989 | 59.73 | -14.27 | 74 | 58.39 | 47.76 | 23 | 69.42 | - | - | P | V |
| | | 17989 | 49.63 | -4.37 | 54 | 48.29 | 47.76 | 23 | 69.42 | - | - | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11160 | 59.56 | -14.44 | 74 | 70.22 | 39.91 | 17.31 | 67.88 | 400 | 1 | P | H |
| | | 11160 | 49.75 | -4.25 | 54 | 60.41 | 39.91 | 17.31 | 67.88 | 400 | 1 | A | H |
| | | 13336 | 49.9 | -24.1 | 74 | 58.95 | 39.45 | 19.21 | 67.71 | - | - | P | H |
| | | 13336 | 42.61 | -11.39 | 54 | 51.66 | 39.45 | 19.21 | 67.71 | - | - | A | H |
| | | 14491 | 51.88 | -22.12 | 74 | 57.82 | 41.76 | 20.04 | 67.74 | - | - | P | H |
| | | 14491 | 42.5 | -11.5 | 54 | 48.44 | 41.76 | 20.04 | 67.74 | - | - | A | H |
| | | 16740 | 49.65 | -18.55 | 68.2 | 57.06 | 39.22 | 21.68 | 68.31 | - | - | P | H |
| | | 18000 | 60.82 | -13.18 | 74 | 58.8 | 48.43 | 23.01 | 69.42 | - | - | P | H |
| | | 18000 | 50.62 | -3.38 | 54 | 48.6 | 48.43 | 23.01 | 69.42 | - | - | A | H |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| **802.11a** | | | | | | | | | | | | | |
| **CH 116** | | 11160 | 61.45 | -12.55 | 74 | 72.12 | 39.9 | 17.31 | 67.88 | 255 | 35 | P | V |
| **5580MHz** | | 11160 | 53.48 | -0.52 | 54 | 64.15 | 39.9 | 17.31 | 67.88 | 255 | 35 | A | V |
| | | 13369 | 51.03 | -22.97 | 74 | 59.92 | 39.57 | 19.23 | 67.69 | - | - | P | V |
| | | 13369 | 42.47 | -11.53 | 54 | 51.36 | 39.57 | 19.23 | 67.69 | - | - | A | V |
| | | 14491 | 52.61 | -21.39 | 74 | 58.68 | 41.63 | 20.04 | 67.74 | - | - | P | V |
| | | 14491 | 43.04 | -10.96 | 54 | 49.11 | 41.63 | 20.04 | 67.74 | - | - | A | V |
| | | 16740 | 50.32 | -17.88 | 68.2 | 57.73 | 39.22 | 21.68 | 68.31 | - | - | P | V |
| | | 17967 | 60 | -14 | 74 | 59.2 | 47.25 | 22.97 | 69.42 | - | - | P | V |
| | | 17967 | 49.6 | -4.4 | 54 | 48.8 | 47.25 | 22.97 | 69.42 | - | - | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11400 | 59.65 | -14.35 | 74 | 69.7 | 40.1 | 17.53 | 67.68 | 314 | 349 | P | H |
| | | 11400 | 50.5 | -3.5 | 54 | 60.55 | 40.1 | 17.53 | 67.68 | 314 | 349 | A | H |
| | | 13336 | 50.05 | -23.95 | 74 | 59.1 | 39.45 | 19.21 | 67.71 | - | - | P | H |
| | | 13336 | 41.98 | -12.02 | 54 | 51.03 | 39.45 | 19.21 | 67.71 | - | - | A | H |
| | | 14491 | 51.98 | -22.02 | 74 | 57.92 | 41.76 | 20.04 | 67.74 | - | - | P | H |
| | | 14491 | 42.85 | -11.15 | 54 | 48.79 | 41.76 | 20.04 | 67.74 | - | - | A | H |
| | | 17100 | 49.82 | -18.38 | 68.2 | 57.3 | 39.4 | 22.02 | 68.9 | - | - | P | H |
| | | 17967 | 60.44 | -13.56 | 74 | 59.3 | 47.59 | 22.97 | 69.42 | - | - | P | H |
| | | 17967 | 49.94 | -4.06 | 54 | 48.8 | 47.59 | 22.97 | 69.42 | - | - | A | H |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| **802.11a** | | | | | | | | | | | | | |
| **CH 140** | | 11400 | 61.02 | -12.98 | 74 | 71.1 | 40.07 | 17.53 | 67.68 | 295 | 121 | P | V |
| **5700MHz** | | 11400 | 53.45 | -0.55 | 54 | 63.53 | 40.07 | 17.53 | 67.68 | 295 | 121 | A | V |
| | | 13358 | 50.05 | -23.95 | 74 | 58.98 | 39.55 | 19.22 | 67.7 | - | - | P | V |
| | | 13358 | 43.1 | -10.9 | 54 | 52.03 | 39.55 | 19.22 | 67.7 | - | - | A | V |
| | | 14491 | 51.74 | -22.26 | 74 | 57.81 | 41.63 | 20.04 | 67.74 | - | - | P | V |
| | | 14491 | 43.05 | -10.95 | 54 | 49.12 | 41.63 | 20.04 | 67.74 | - | - | A | V |
| | | 17100 | 49.95 | -18.25 | 68.2 | 57.27 | 39.56 | 22.02 | 68.9 | - | - | P | V |
| | | 17989 | 59.63 | -14.37 | 74 | 58.29 | 47.76 | 23 | 69.42 | - | - | P | V |
| | | 17989 | 49.83 | -4.17 | 54 | 48.49 | 47.76 | 23 | 69.42 | - | - | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

**Remark**

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

## UNII-2C - 5470~5725MHz

## WIFI 802.11ax HE20 Full (Band Edge @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 5450 | 56.25 | -17.75 | 74 | 42.85 | 32 | 11.48 | 30.08 | 261 | 325 | P | H |
| | | 5469.84 | 66.73 | -1.47 | 68.2 | 53.32 | 32.01 | 11.49 | 30.09 | 261 | 325 | P | H |
| | | 5451.92 | 49.04 | -4.96 | 54 | 35.64 | 32 | 11.48 | 30.08 | 261 | 325 | A | H |
| | * | 5500 | 119.96 | - | - | 106.51 | 32.03 | 11.52 | 30.1 | 261 | 325 | P | H |
| 802.11ax | * | 5500 | 109.5 | - | - | 96.05 | 32.03 | 11.52 | 30.1 | 261 | 325 | A | H |
| HE20 Full | | | | | | | | | | | | | |
| CH 100 | | 5457.2 | 59.25 | -14.75 | 74 | 45.89 | 31.96 | 11.48 | 30.08 | 279 | 352 | P | V |
| 5500MHz | | 5468.88 | 67.6 | -0.6 | 68.2 | 54.24 | 31.96 | 11.49 | 30.09 | 279 | 352 | P | V |
| | | 5457.04 | 52.73 | -1.27 | 54 | 39.37 | 31.96 | 11.48 | 30.08 | 279 | 352 | A | V |
| | * | 5500 | 123.5 | - | - | 110.1 | 31.98 | 11.52 | 30.1 | 279 | 352 | P | V |
| | * | 5500 | 112.74 | - | - | 99.34 | 31.98 | 11.52 | 30.1 | 279 | 352 | A | V |
| | | | | | | | | | | | | | |
| | | 5443.36 | 55.45 | -18.55 | 74 | 42.09 | 31.97 | 11.47 | 30.08 | 256 | 32 | P | H |
| | | 5461.6 | 53.68 | -14.52 | 68.2 | 40.26 | 32.01 | 11.49 | 30.08 | 256 | 32 | P | H |
| | | 5382.64 | 45.95 | -8.05 | 54 | 32.9 | 31.7 | 11.42 | 30.07 | 256 | 32 | A | H |
| | * | 5580 | 123.46 | - | - | 109.96 | 31.99 | 11.62 | 30.11 | 256 | 32 | P | H |
| 802.11ax | * | 5580 | 114.74 | - | - | 101.24 | 31.99 | 11.62 | 30.11 | 256 | 32 | A | H |
| HE20 Full | | 5745.47 | 54.8 | -13.4 | 68.2 | 41.01 | 32.18 | 11.78 | 30.17 | 256 | 32 | P | H |
| CH 116 | | 5385.52 | 55 | -19 | 74 | 41.95 | 31.7 | 11.42 | 30.07 | 310 | 331 | P | V |
| 5580MHz | | 5465.2 | 54.4 | -13.8 | 68.2 | 41.04 | 31.96 | 11.49 | 30.09 | 310 | 331 | P | V |
| | | 5384.8 | 47.12 | -6.88 | 54 | 34.07 | 31.7 | 11.42 | 30.07 | 310 | 331 | A | V |
| | * | 5580 | 123.15 | - | - | 109.58 | 32.06 | 11.62 | 30.11 | 310 | 331 | P | V |
| | * | 5580 | 114.84 | - | - | 101.27 | 32.06 | 11.62 | 30.11 | 310 | 331 | A | V |
| | | 5734.13 | 55.51 | -12.69 | 68.2 | 41.7 | 32.2 | 11.78 | 30.17 | 310 | 331 | P | V |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | * | 5700 | 121.58 | - | - | 107.92 | 32.04 | 11.78 | 30.16 | 261 | 178 | P | H |
| | * | 5700 | 109.93 | - | - | 96.27 | 32.04 | 11.78 | 30.16 | 261 | 178 | A | H |
| | | 5726.6 | 60.41 | -7.79 | 68.2 | 46.68 | 32.12 | 11.78 | 30.17 | 261 | 178 | P | H |
| | | | | | | | | | | | | | |
| **802.11ax** | | | | | | | | | | | | | |
| **HE20 Full** | | | | | | | | | | | | | |
| **CH 140** | * | 5700 | 124.46 | - | - | 110.72 | 32.12 | 11.78 | 30.16 | 271 | 351 | P | V |
| **5700MHz** | * | 5700 | 113.35 | - | - | 99.61 | 32.12 | 11.78 | 30.16 | 271 | 351 | A | V |
| | | 5727.08 | 66.44 | -1.76 | 68.2 | 52.65 | 32.18 | 11.78 | 30.17 | 271 | 351 | P | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| | |
|---|---|
| **Remark** | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |

## UNII-2C 5470~5725MHz

## WIFI 802.11ax HE20 (Harmonic @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11000 | 56.96 | -17.04 | 74 | 67.55 | 40.26 | 17.17 | 68.02 | 391 | 1 | P | H |
| | | 11000 | 47.62 | -6.38 | 54 | 58.21 | 40.26 | 17.17 | 68.02 | 391 | 1 | A | H |
| | | 13347 | 50.66 | -23.34 | 74 | 59.66 | 39.49 | 19.21 | 67.7 | - | - | P | H |
| | | 13347 | 43 | -11 | 54 | 52 | 39.49 | 19.21 | 67.7 | - | - | A | H |
| | | 14491 | 52.08 | -21.92 | 74 | 58.02 | 41.76 | 20.04 | 67.74 | - | - | P | H |
| | | 14491 | 43.94 | -10.06 | 54 | 49.88 | 41.76 | 20.04 | 67.74 | - | - | A | H |
| | | 16500 | 49.48 | -18.72 | 68.2 | 57.55 | 38.33 | 21.47 | 67.87 | - | - | P | H |
| | | 18000 | 60.62 | -13.38 | 74 | 58.6 | 48.43 | 23.01 | 69.42 | - | - | P | H |
| | | 18000 | 50.72 | -3.28 | 54 | 48.7 | 48.43 | 23.01 | 69.42 | - | - | A | H |
| | | | | | | | | | | | | | |
| 802.11ax | | | | | | | | | | | | | |
| HE20 Full | | | | | | | | | | | | | |
| CH 100 | | 11000 | 59.86 | -14.14 | 74 | 70.43 | 40.28 | 17.17 | 68.02 | 200 | 298 | P | V |
| 5500MHz | | 11000 | 52.08 | -1.92 | 54 | 62.65 | 40.28 | 17.17 | 68.02 | 200 | 298 | A | V |
| | | 13347 | 50.79 | -23.21 | 74 | 59.77 | 39.51 | 19.21 | 67.7 | - | - | P | V |
| | | 13347 | 42.8 | -11.2 | 54 | 51.78 | 39.51 | 19.21 | 67.7 | - | - | A | V |
| | | 14491 | 51.59 | -22.41 | 74 | 57.66 | 41.63 | 20.04 | 67.74 | - | - | P | V |
| | | 14491 | 42.84 | -11.16 | 54 | 48.91 | 41.63 | 20.04 | 67.74 | - | - | A | V |
| | | 16500 | 49.48 | -18.72 | 68.2 | 57.41 | 38.47 | 21.47 | 67.87 | - | - | P | V |
| | | 17945 | 59.78 | -14.22 | 74 | 59.5 | 46.75 | 22.95 | 69.42 | - | - | P | V |
| | | 17945 | 49.38 | -4.62 | 54 | 49.1 | 46.75 | 22.95 | 69.42 | - | - | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level ( dBµV ) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11160 | 57.49 | -16.51 | 74 | 68.15 | 39.91 | 17.31 | 67.88 | 400 | 0 | P | H |
| | | 11160 | 49.6 | -4.4 | 54 | 60.26 | 39.91 | 17.31 | 67.88 | 400 | 0 | A | H |
| | | 13391 | 50.22 | -23.78 | 74 | 59.01 | 39.64 | 19.25 | 67.68 | - | - | P | H |
| | | 13391 | 43.42 | -10.58 | 54 | 52.21 | 39.64 | 19.25 | 67.68 | - | - | A | H |
| | | 14491 | 51.96 | -22.04 | 74 | 57.9 | 41.76 | 20.04 | 67.74 | - | - | P | H |
| | | 14491 | 43.62 | -10.38 | 54 | 49.56 | 41.76 | 20.04 | 67.74 | - | - | A | H |
| | | 16740 | 49.85 | -18.35 | 68.2 | 57.26 | 39.22 | 21.68 | 68.31 | - | - | P | H |
| | | 17956 | 60.55 | -13.45 | 74 | 59.71 | 47.3 | 22.96 | 69.42 | - | - | P | H |
| | | 17956 | 50.35 | -3.65 | 54 | 49.51 | 47.3 | 22.96 | 69.42 | - | - | A | H |
| | | | | | | | | | | | | | |
| **802.11ax** | | | | | | | | | | | | | |
| **HE20 Full** | | | | | | | | | | | | | |
| **CH 116** | | 11160 | 62.15 | -11.85 | 74 | 72.82 | 39.9 | 17.31 | 67.88 | 267 | 35 | P | V |
| **5580MHz** | | 11160 | 53.27 | -0.73 | 54 | 63.94 | 39.9 | 17.31 | 67.88 | 267 | 35 | A | V |
| | | 13336 | 49.13 | -24.87 | 74 | 58.17 | 39.46 | 19.21 | 67.71 | - | - | P | V |
| | | 13336 | 42.69 | -11.31 | 54 | 51.73 | 39.46 | 19.21 | 67.71 | - | - | A | V |
| | | 14491 | 51.74 | -22.26 | 74 | 57.81 | 41.63 | 20.04 | 67.74 | - | - | P | V |
| | | 14491 | 42.92 | -11.08 | 54 | 48.99 | 41.63 | 20.04 | 67.74 | - | - | A | V |
| | | 16740 | 49.81 | -18.39 | 68.2 | 57.22 | 39.22 | 21.68 | 68.31 | - | - | P | V |
| | | 17989 | 60.53 | -13.47 | 74 | 59.19 | 47.76 | 23 | 69.42 | - | - | P | V |
| | | 17989 | 50.43 | -3.57 | 54 | 49.09 | 47.76 | 23 | 69.42 | - | - | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level ( dBµV ) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11400 | 58.83 | -15.17 | 74 | 60.42 | 40.1 | 17.53 | 59.22 | 400 | 324 | P | H |
| | | 11400 | 50.73 | -3.27 | 54 | 52.32 | 40.1 | 17.53 | 59.22 | 400 | 324 | A | H |
| | | 13380 | 51.43 | -22.57 | 74 | 53.56 | 39.6 | 19.24 | 60.97 | - | - | P | H |
| | | 13380 | 42.65 | -11.35 | 54 | 44.78 | 39.6 | 19.24 | 60.97 | - | - | A | H |
| | | 14491 | 52.1 | -21.9 | 74 | 51.59 | 41.76 | 20.04 | 61.29 | - | - | P | H |
| | | 14491 | 40.53 | -13.47 | 54 | 40.02 | 41.76 | 20.04 | 61.29 | - | - | A | H |
| | | 17100 | 50.2 | -18 | 68.2 | 47.66 | 39.4 | 22.02 | 58.88 | - | - | P | H |
| | | 17978 | 60.33 | -13.67 | 74 | 45.69 | 47.87 | 22.99 | 56.22 | - | - | P | H |
| | | 17978 | 50.09 | -3.91 | 54 | 35.45 | 47.87 | 22.99 | 56.22 | - | - | A | H |
| | | | | | | | | | | | | | |
| **802.11ax** | | | | | | | | | | | | | |
| **HE20 Full** | | | | | | | | | | | | | |
| **CH 140** | | 11400 | 62.54 | -11.46 | 74 | 64.16 | 40.07 | 17.53 | 59.22 | 310 | 120 | P | V |
| **5700MHz** | | 11400 | 53.51 | -0.49 | 54 | 55.13 | 40.07 | 17.53 | 59.22 | 310 | 120 | A | V |
| | | 13391 | 52.03 | -21.97 | 74 | 54.12 | 39.63 | 19.25 | 60.97 | - | - | P | V |
| | | 13391 | 41.52 | -12.48 | 54 | 43.61 | 39.63 | 19.25 | 60.97 | - | - | A | V |
| | | 14491 | 51.24 | -22.76 | 74 | 50.86 | 41.63 | 20.04 | 61.29 | - | - | P | V |
| | | 14491 | 41.57 | -12.43 | 54 | 41.19 | 41.63 | 20.04 | 61.29 | - | - | A | V |
| | | 17100 | 50.78 | -17.42 | 68.2 | 48.08 | 39.56 | 22.02 | 58.88 | - | - | P | V |
| | | 18000 | 60.16 | -13.84 | 74 | 45.3 | 48.01 | 23.01 | 56.16 | - | - | P | V |
| | | 18000 | 50.34 | -3.66 | 54 | 35.48 | 48.01 | 23.01 | 56.16 | - | - | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

**Remark**

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

## UNII-2C 5470~5725MHz

## WIFI 802.11ax HE40 Full (Band Edge @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level ( dBµV ) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 5453.2 | 56.18 | -17.82 | 74 | 42.78 | 32 | 11.48 | 30.08 | 267 | 21 | P | H |
| | | 5469.76 | 63.02 | -5.18 | 68.2 | 49.61 | 32.01 | 11.49 | 30.09 | 267 | 21 | P | H |
| | | 5452 | 49.89 | -4.11 | 54 | 36.49 | 32 | 11.48 | 30.08 | 267 | 21 | A | H |
| | * | 5510 | 120.37 | - | - | 106.92 | 32.02 | 11.53 | 30.1 | 267 | 21 | P | H |
| 802.11ax | * | 5510 | 110.11 | - | - | 96.66 | 32.02 | 11.53 | 30.1 | 267 | 21 | A | H |
| HE40 Full | | 5752.715 | 53.39 | -14.81 | 68.2 | 39.58 | 32.2 | 11.78 | 30.17 | 267 | 21 | P | H |
| CH 102 | | 5455.12 | 58.79 | -15.21 | 74 | 45.43 | 31.96 | 11.48 | 30.08 | 312 | 324 | P | V |
| 5510MHz | | 5467.36 | 63.26 | -4.94 | 68.2 | 49.9 | 31.96 | 11.49 | 30.09 | 312 | 324 | P | V |
| | | 5454.64 | 52.32 | -1.68 | 54 | 38.96 | 31.96 | 11.48 | 30.08 | 312 | 324 | A | V |
| | * | 5510 | 121.08 | - | - | 107.65 | 32 | 11.53 | 30.1 | 312 | 324 | P | V |
| | * | 5510 | 111.22 | - | - | 97.79 | 32 | 11.53 | 30.1 | 312 | 324 | A | V |
| | | 5763.11 | 54.83 | -13.37 | 68.2 | 40.97 | 32.25 | 11.78 | 30.17 | 312 | 324 | P | V |
| | | 5458.48 | 59.53 | -14.47 | 74 | 46.12 | 32.01 | 11.48 | 30.08 | 257 | 50 | P | H |
| | | 5468.08 | 58 | -10.2 | 68.2 | 44.59 | 32.01 | 11.49 | 30.09 | 257 | 50 | P | H |
| | | 5455.6 | 52.58 | -1.42 | 54 | 39.17 | 32.01 | 11.48 | 30.08 | 257 | 50 | A | H |
| | * | 5550 | 122.15 | - | - | 108.67 | 31.98 | 11.59 | 30.09 | 257 | 50 | P | H |
| 802.11ax | * | 5550 | 113.47 | - | - | 99.99 | 31.98 | 11.59 | 30.09 | 257 | 50 | A | H |
| HE40 Full | | 5753.03 | 57.07 | -11.13 | 68.2 | 43.25 | 32.21 | 11.78 | 30.17 | 257 | 50 | P | H |
| CH 110 | | 5459.68 | 61.02 | -12.98 | 74 | 47.66 | 31.96 | 11.48 | 30.08 | 297 | 326 | P | V |
| 5550MHz | | 5467.12 | 62.66 | -5.54 | 68.2 | 49.3 | 31.96 | 11.49 | 30.09 | 297 | 326 | P | V |
| | | 5459.92 | 53.78 | -0.22 | 54 | 40.42 | 31.96 | 11.48 | 30.08 | 297 | 326 | A | V |
| | * | 5550 | 121.77 | - | - | 108.2 | 32.07 | 11.59 | 30.09 | 297 | 326 | P | V |
| | * | 5550 | 113.87 | - | - | 100.3 | 32.07 | 11.59 | 30.09 | 297 | 326 | A | V |
| | | 5743.265 | 55.24 | -12.96 | 68.2 | 41.41 | 32.22 | 11.78 | 30.17 | 297 | 326 | P | V |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 5379.4 | 53.74 | -20.26 | 74 | 40.71 | 31.68 | 11.42 | 30.07 | 340 | 61 | P | H |
| | | 5470.05 | 53.97 | -96.03 | 150 | 40.56 | 32.01 | 11.49 | 30.09 | 340 | 61 | P | H |
| | | 5459.9 | 45.12 | -8.88 | 54 | 31.71 | 32.01 | 11.48 | 30.08 | 340 | 61 | A | H |
| | * | 5670 | 119.19 | - | - | 105.6 | 31.98 | 11.74 | 30.13 | 340 | 61 | P | H |
| **802.11ax** | * | 5670 | 111.07 | - | - | 97.48 | 31.98 | 11.74 | 30.13 | 340 | 61 | A | H |
| **HE40 Full** | | 5726.15 | 67.6 | -0.6 | 68.2 | 53.87 | 32.12 | 11.78 | 30.17 | 340 | 61 | P | H |
| **CH 134** | | 5423.85 | 55.23 | -18.77 | 74 | 41.99 | 31.86 | 11.45 | 30.07 | 287 | 352 | P | V |
| **5670MHz** | | 5470.05 | 55.15 | -94.85 | 150 | 41.78 | 31.97 | 11.49 | 30.09 | 287 | 352 | P | V |
| | | 5459.2 | 46.22 | -7.78 | 54 | 32.86 | 31.96 | 11.48 | 30.08 | 287 | 352 | A | V |
| | * | 5670 | 123.49 | - | - | 109.82 | 32.06 | 11.74 | 30.13 | 287 | 352 | P | V |
| | * | 5670 | 114.14 | - | - | 100.47 | 32.06 | 11.74 | 30.13 | 287 | 352 | A | V |
| | | 5729.825 | 67.33 | -0.87 | 68.2 | 53.53 | 32.19 | 11.78 | 30.17 | 287 | 352 | P | V |
| **Remark** | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## UNII-2C 5470~5725MHz

## WIFI 802.11ax HE40 Full (Harmonic @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level ( dBµV ) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11020 | 61.52 | -12.48 | 74 | 63.24 | 40.24 | 17.19 | 59.15 | 390 | 0 | P | H |
| | | 11020 | 51.85 | -2.15 | 54 | 53.57 | 40.24 | 17.19 | 59.15 | 390 | 0 | A | H |
| | | 13380 | 51.18 | -22.82 | 74 | 53.31 | 39.6 | 19.24 | 60.97 | - | - | P | H |
| | | 13380 | 41.08 | -12.92 | 54 | 43.21 | 39.6 | 19.24 | 60.97 | - | - | A | H |
| | | 14491 | 52.28 | -21.72 | 74 | 51.77 | 41.76 | 20.04 | 61.29 | - | - | P | H |
| | | 14491 | 42.2 | -11.8 | 54 | 41.69 | 41.76 | 20.04 | 61.29 | - | - | A | H |
| | | 16530 | 49.87 | -18.33 | 68.2 | 49.78 | 38.41 | 21.5 | 59.82 | - | - | P | H |
| | | 18000 | 62.08 | -11.92 | 74 | 46.8 | 48.43 | 23.01 | 56.16 | - | - | P | H |
| | | 18000 | 50.48 | -3.52 | 54 | 35.2 | 48.43 | 23.01 | 56.16 | - | - | A | H |
| | | | | | | | | | | | | | |
| **802.11ax** | | | | | | | | | | | | | |
| **HE40 Full** | | | | | | | | | | | | | |
| **CH 102** | | 11020 | 65.1 | -8.9 | 74 | 66.81 | 40.25 | 17.19 | 59.15 | 204 | 296 | P | V |
| **5510MHz** | | 11020 | 55.82 | -18.18 | 74 | 57.53 | 40.25 | 17.19 | 59.15 | 204 | 296 | P | V |
| | | 13380 | 51.77 | -22.23 | 74 | 53.9 | 39.6 | 19.24 | 60.97 | - | - | P | V |
| | | 13380 | 41.44 | -12.56 | 54 | 43.57 | 39.6 | 19.24 | 60.97 | - | - | A | V |
| | | 14491 | 51.33 | -22.67 | 74 | 50.95 | 41.63 | 20.04 | 61.29 | - | - | P | V |
| | | 14491 | 41.69 | -12.31 | 54 | 41.31 | 41.63 | 20.04 | 61.29 | - | - | A | V |
| | | 16530 | 51.74 | -16.46 | 68.2 | 51.46 | 38.6 | 21.5 | 59.82 | - | - | P | V |
| | | 18000 | 60.46 | -13.54 | 74 | 45.6 | 48.01 | 23.01 | 56.16 | - | - | P | V |
| | | 18000 | 50.26 | -3.74 | 54 | 35.4 | 48.01 | 23.01 | 56.16 | - | - | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level ( dBµV ) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11100 | 57.13 | -16.87 | 74 | 58.96 | 40.04 | 17.26 | 59.13 | 400 | 0 | P | H |
| | | 11100 | 49.06 | -4.94 | 54 | 50.89 | 40.04 | 17.26 | 59.13 | 400 | 0 | A | H |
| | | 13281 | 52.01 | -21.99 | 74 | 54.57 | 39.24 | 19.16 | 60.96 | - | - | P | H |
| | | 13281 | 41.75 | -12.25 | 54 | 44.31 | 39.24 | 19.16 | 60.96 | - | - | A | H |
| | | 14491 | 52.37 | -21.63 | 74 | 51.86 | 41.76 | 20.04 | 61.29 | - | - | P | H |
| | | 14491 | 42.39 | -11.61 | 54 | 41.88 | 41.76 | 20.04 | 61.29 | - | - | A | H |
| | | 16650 | 50.29 | -17.91 | 68.2 | 49.59 | 38.91 | 21.6 | 59.81 | - | - | P | H |
| | | 17956 | 60.88 | -13.12 | 74 | 46.9 | 47.3 | 22.96 | 56.28 | - | - | P | H |
| | | 17956 | 49.58 | -4.42 | 54 | 35.6 | 47.3 | 22.96 | 56.28 | - | - | A | H |
| | | | | | | | | | | | | | |
| **802.11ax** | | | | | | | | | | | | | |
| **HE40 Full** | | | | | | | | | | | | | |
| **CH 110** | | 11100 | 60.79 | -13.21 | 74 | 62.63 | 40.03 | 17.26 | 59.13 | 211 | 300 | P | V |
| **5550MHz** | | 11100 | 51.48 | -2.52 | 54 | 53.32 | 40.03 | 17.26 | 59.13 | 211 | 300 | A | V |
| | | 13380 | 51.57 | -22.43 | 74 | 53.7 | 39.6 | 19.24 | 60.97 | - | - | P | V |
| | | 13380 | 40.77 | -13.23 | 54 | 42.9 | 39.6 | 19.24 | 60.97 | - | - | A | V |
| | | 14491 | 53.99 | -20.01 | 74 | 53.61 | 41.63 | 20.04 | 61.29 | - | - | P | V |
| | | 14491 | 42.26 | -11.74 | 54 | 41.88 | 41.63 | 20.04 | 61.29 | - | - | A | V |
| | | 16650 | 51.98 | -16.22 | 68.2 | 51.24 | 38.95 | 21.6 | 59.81 | - | - | P | V |
| | | 18000 | 61.66 | -12.34 | 74 | 46.8 | 48.01 | 23.01 | 56.16 | - | - | P | V |
| | | 18000 | 50.96 | -3.04 | 54 | 36.1 | 48.01 | 23.01 | 56.16 | - | - | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level ( dBµV ) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11340 | 56.82 | -17.18 | 74 | 58.55 | 39.9 | 17.48 | 59.11 | 326 | 357 | P | H |
| | | 11340 | 48.33 | -5.67 | 54 | 50.06 | 39.9 | 17.48 | 59.11 | 326 | 357 | A | H |
| | | 13380 | 52.1 | -21.9 | 74 | 54.23 | 39.6 | 19.24 | 60.97 | - | - | P | H |
| | | 13380 | 40.4 | -13.6 | 54 | 42.53 | 39.6 | 19.24 | 60.97 | - | - | A | H |
| | | 14491 | 52.85 | -21.15 | 74 | 52.34 | 41.76 | 20.04 | 61.29 | - | - | P | H |
| | | 14491 | 42.36 | -11.64 | 54 | 41.85 | 41.76 | 20.04 | 61.29 | - | - | A | H |
| | | 17010 | 49.86 | -18.34 | 68.2 | 47.69 | 39.44 | 21.92 | 59.19 | - | - | P | H |
| | | 17989 | 60.56 | -13.44 | 74 | 45.6 | 48.15 | 23 | 56.19 | - | - | P | H |
| | | 17989 | 50.46 | -3.54 | 54 | 35.5 | 48.15 | 23 | 56.19 | - | - | A | H |
| | | | | | | | | | | | | | |
| **802.11ax** | | | | | | | | | | | | | |
| **HE40 Full** | | | | | | | | | | | | | |
| **CH 134** | | 11340 | 59.8 | -14.2 | 74 | 61.49 | 39.94 | 17.48 | 59.11 | 300 | 80 | P | V |
| **5670MHz** | | 11340 | 50.52 | -3.48 | 54 | 52.21 | 39.94 | 17.48 | 59.11 | 300 | 80 | A | V |
| | | 13369 | 50.84 | -23.16 | 74 | 53.01 | 39.57 | 19.23 | 60.97 | - | - | P | V |
| | | 13369 | 40.41 | -13.59 | 54 | 42.58 | 39.57 | 19.23 | 60.97 | - | - | A | V |
| | | 14491 | 51.88 | -22.12 | 74 | 51.5 | 41.63 | 20.04 | 61.29 | - | - | P | V |
| | | 14491 | 42.15 | -11.85 | 54 | 41.77 | 41.63 | 20.04 | 61.29 | - | - | A | V |
| | | 17010 | 51.57 | -16.63 | 68.2 | 49.25 | 39.59 | 21.92 | 59.19 | - | - | P | V |
| | | 17945 | 59.59 | -14.41 | 74 | 46.2 | 46.75 | 22.95 | 56.31 | - | - | P | V |
| | | 17945 | 49.09 | -4.91 | 54 | 35.7 | 46.75 | 22.95 | 56.31 | - | - | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

**Remark**

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

## UNII-2C 5470~5725MHz

## WIFI 802.11ax HE80 Full (Band Edge @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11ax HE80 Full CH 106 5530MHz | | 5456.32 | 62.49 | -11.51 | 74 | 49.08 | 32.01 | 11.48 | 30.08 | 259 | 51 | P | H |
| | | 5460.16 | 59 | -9.2 | 68.2 | 45.59 | 32.01 | 11.48 | 30.08 | 259 | 51 | P | H |
| | | 5456.32 | 53.34 | -0.66 | 54 | 39.93 | 32.01 | 11.48 | 30.08 | 259 | 51 | A | H |
| | * | 5530 | 114.32 | - | - | 100.85 | 32 | 11.56 | 30.09 | 259 | 51 | P | H |
| | * | 5530 | 106.78 | - | - | 93.31 | 32 | 11.56 | 30.09 | 259 | 51 | A | H |
| | | 5746.1 | 53.78 | -14.42 | 68.2 | 39.99 | 32.18 | 11.78 | 30.17 | 259 | 51 | P | H |
| | | 5455.36 | 60.14 | -13.86 | 74 | 46.78 | 31.96 | 11.48 | 30.08 | 270 | 325 | P | V |
| | | 5468.32 | 61.46 | -6.74 | 68.2 | 48.1 | 31.96 | 11.49 | 30.09 | 270 | 325 | P | V |
| | | 5454.64 | 52.68 | -1.32 | 54 | 39.32 | 31.96 | 11.48 | 30.08 | 270 | 325 | A | V |
| | * | 5530 | 111.73 | - | - | 98.23 | 32.03 | 11.56 | 30.09 | 270 | 325 | P | V |
| | * | 5530 | 102.76 | - | - | 89.26 | 32.03 | 11.56 | 30.09 | 270 | 325 | A | V |
| | | 5763.74 | 54.16 | -14.04 | 68.2 | 40.3 | 32.25 | 11.78 | 30.17 | 270 | 325 | P | V |
| 802.11ax HE80 Full CH 122 5610MHz | | 5456.05 | 56.36 | -17.64 | 74 | 42.95 | 32.01 | 11.48 | 30.08 | 264 | 50 | P | H |
| | | 5469.35 | 56.71 | -11.49 | 68.2 | 43.3 | 32.01 | 11.49 | 30.09 | 264 | 50 | P | H |
| | | 5455.35 | 48.93 | -5.07 | 54 | 35.52 | 32.01 | 11.48 | 30.08 | 264 | 50 | A | H |
| | * | 5610 | 116.59 | - | - | 103.06 | 31.99 | 11.66 | 30.12 | 264 | 50 | P | H |
| | * | 5610 | 108.09 | - | - | 94.56 | 31.99 | 11.66 | 30.12 | 264 | 50 | A | H |
| | | 5741.2 | 64.96 | -3.24 | 68.2 | 51.18 | 32.17 | 11.78 | 30.17 | 264 | 50 | P | H |
| | | 5452.55 | 57.02 | -16.98 | 74 | 43.66 | 31.96 | 11.48 | 30.08 | 285 | 348 | P | V |
| | | 5468.3 | 58.82 | -9.38 | 68.2 | 45.46 | 31.96 | 11.49 | 30.09 | 285 | 348 | P | V |
| | | 5455 | 49.77 | -4.23 | 54 | 36.41 | 31.96 | 11.48 | 30.08 | 285 | 348 | A | V |
| | * | 5610 | 116.09 | - | - | 102.51 | 32.04 | 11.66 | 30.12 | 285 | 348 | P | V |
| | * | 5610 | 108.18 | - | - | 94.6 | 32.04 | 11.66 | 30.12 | 285 | 348 | A | V |
| | | 5742.425 | 67.33 | -0.87 | 68.2 | 53.5 | 32.22 | 11.78 | 30.17 | 285 | 348 | P | V |
| **Remark** | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## UNII-2C 5470~5725MHz

## WIFI 802.11ax HE80 Full (Harmonic @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11060 | 50.81 | -23.19 | 74 | 52.54 | 40.19 | 17.23 | 59.15 | 397 | 11 | P | H |
| | | 11060 | 42.36 | -11.64 | 54 | 44.09 | 40.19 | 17.23 | 59.15 | 397 | 11 | A | H |
| | | 13281 | 51.31 | -22.69 | 74 | 53.87 | 39.24 | 19.16 | 60.96 | - | - | P | H |
| | | 13281 | 40.52 | -13.48 | 54 | 43.08 | 39.24 | 19.16 | 60.96 | - | - | A | H |
| | | 14491 | 51.76 | -22.24 | 74 | 51.25 | 41.76 | 20.04 | 61.29 | - | - | P | H |
| | | 14491 | 42.17 | -11.83 | 54 | 41.66 | 41.76 | 20.04 | 61.29 | - | - | A | H |
| | | 16590 | 50.09 | -18.11 | 68.2 | 49.73 | 38.63 | 21.55 | 59.82 | - | - | P | H |
| | | 17956 | 60.18 | -13.82 | 74 | 46.2 | 47.3 | 22.96 | 56.28 | - | - | P | H |
| | | 17956 | 49.88 | -4.12 | 54 | 35.9 | 47.3 | 22.96 | 56.28 | - | - | A | H |
| | | | | | | | | | | | | | |
| 802.11ax | | | | | | | | | | | | | |
| HE80 Full | | | | | | | | | | | | | |
| CH 106 | | 11060 | 50.92 | -23.08 | 74 | 52.67 | 40.17 | 17.23 | 59.15 | 312 | 229 | P | V |
| 5530MHz | | 11060 | 41.34 | -12.66 | 54 | 43.09 | 40.17 | 17.23 | 59.15 | 312 | 229 | A | V |
| | | 13380 | 50.72 | -23.28 | 74 | 52.85 | 39.6 | 19.24 | 60.97 | - | - | P | V |
| | | 13380 | 40.39 | -13.61 | 54 | 42.52 | 39.6 | 19.24 | 60.97 | - | - | A | V |
| | | 14491 | 51.15 | -22.85 | 74 | 50.77 | 41.63 | 20.04 | 61.29 | - | - | P | V |
| | | 14491 | 41.8 | -12.2 | 54 | 41.42 | 41.63 | 20.04 | 61.29 | - | - | A | V |
| | | 16590 | 49.14 | -19.06 | 68.2 | 48.63 | 38.78 | 21.55 | 59.82 | - | - | P | V |
| | | 17956 | 60.37 | -13.63 | 74 | 46.7 | 46.99 | 22.96 | 56.28 | - | - | P | V |
| | | 17956 | 49.77 | -4.23 | 54 | 36.1 | 46.99 | 22.96 | 56.28 | - | - | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level ( dBµV ) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11220 | 51.18 | -22.82 | 74 | 53.11 | 39.84 | 17.37 | 59.14 | 346 | 169 | P | H |
| | | 11220 | 41.96 | -12.04 | 54 | 43.89 | 39.84 | 17.37 | 59.14 | 346 | 169 | A | H |
| | | 13369 | 51.13 | -22.87 | 74 | 53.31 | 39.56 | 19.23 | 60.97 | - | - | P | H |
| | | 13369 | 40.43 | -13.57 | 54 | 42.61 | 39.56 | 19.23 | 60.97 | - | - | A | H |
| | | 14491 | 51.56 | -22.44 | 74 | 51.05 | 41.76 | 20.04 | 61.29 | - | - | P | H |
| | | 14491 | 42.01 | -11.99 | 54 | 41.5 | 41.76 | 20.04 | 61.29 | - | - | A | H |
| | | 16830 | 50.89 | -17.31 | 68.2 | 49.42 | 39.4 | 21.75 | 59.68 | - | - | P | H |
| | | 18000 | 61.38 | -12.62 | 74 | 46.1 | 48.43 | 23.01 | 56.16 | - | - | P | H |
| | | 18000 | 50.48 | -3.52 | 54 | 35.2 | 48.43 | 23.01 | 56.16 | - | - | A | H |
| | | | | | | | | | | | | | |
| **802.11ax** | | | | | | | | | | | | | |
| **HE80 Full** | | | | | | | | | | | | | |
| **CH 122** | | 11220 | 53.76 | -20.24 | 74 | 55.63 | 39.9 | 17.37 | 59.14 | 311 | 66 | P | V |
| **5610MHz** | | 11220 | 46.24 | -7.76 | 54 | 48.11 | 39.9 | 17.37 | 59.14 | 311 | 66 | A | V |
| | | 13281 | 50.74 | -23.26 | 74 | 53.31 | 39.23 | 19.16 | 60.96 | - | - | P | V |
| | | 13281 | 40.5 | -13.5 | 54 | 43.07 | 39.23 | 19.16 | 60.96 | - | - | A | V |
| | | 14491 | 51.18 | -22.82 | 74 | 50.8 | 41.63 | 20.04 | 61.29 | - | - | P | V |
| | | 14491 | 41.16 | -12.84 | 54 | 40.78 | 41.63 | 20.04 | 61.29 | - | - | A | V |
| | | 16830 | 51.5 | -16.7 | 68.2 | 49.93 | 39.5 | 21.75 | 59.68 | - | - | P | V |
| | | 18000 | 59.96 | -14.04 | 74 | 45.1 | 48.01 | 23.01 | 56.16 | - | - | P | V |
| | | 18000 | 50.26 | -3.74 | 54 | 35.4 | 48.01 | 23.01 | 56.16 | - | - | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

**Remark**

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

## UNII-2C 5470~5725MHz

## WIFI 802.11ax HE80+80 Full (Band Edge @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBμV/m ) | Over Limit ( dB ) | Limit Line ( dBμV/m ) | Read Level (dBμV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11ax HE80+80 Full CH 106+122 5530MHz + 5610MHz | | 5459.68 | 59.69 | -14.31 | 74 | 46.28 | 32.01 | 11.48 | 30.08 | 262 | 163 | P | H |
| | | 5461.84 | 60.51 | -7.69 | 68.2 | 47.09 | 32.01 | 11.49 | 30.08 | 262 | 163 | P | H |
| | | 5459.68 | 52.93 | -1.07 | 54 | 39.52 | 32.01 | 11.48 | 30.08 | 262 | 163 | A | H |
| | * | 5530 | 109.11 | - | - | 95.64 | 32 | 11.56 | 30.09 | 262 | 163 | P | H |
| | * | 5530 | 101.17 | - | - | 87.7 | 32 | 11.56 | 30.09 | 262 | 163 | A | H |
| | * | 5610 | 104.86 | - | - | 91.33 | 31.99 | 11.66 | 30.12 | 262 | 163 | P | H |
| | * | 5610 | 97.23 | - | - | 83.7 | 31.99 | 11.66 | 30.12 | 262 | 163 | A | H |
| | | 5734.76 | 55.04 | -13.16 | 68.2 | 41.28 | 32.15 | 11.78 | 30.17 | 262 | 163 | P | H |
| | | 5449.6 | 58.33 | -15.67 | 74 | 44.98 | 31.96 | 11.47 | 30.08 | 301 | 273 | P | V |
| | | 5465.68 | 61.44 | -6.76 | 68.2 | 48.08 | 31.96 | 11.49 | 30.09 | 301 | 273 | P | V |
| | | 5459.92 | 51.29 | -2.71 | 54 | 37.93 | 31.96 | 11.48 | 30.08 | 301 | 273 | A | V |
| | * | 5530 | 111.06 | - | - | 97.56 | 32.03 | 11.56 | 30.09 | 301 | 273 | P | V |
| | * | 5530 | 102.94 | - | - | 89.44 | 32.03 | 11.56 | 30.09 | 301 | 273 | A | V |
| | * | 5610 | 105.92 | - | - | 92.34 | 32.04 | 11.66 | 30.12 | 301 | 273 | P | V |
| | * | 5610 | 98 | - | - | 84.42 | 32.04 | 11.66 | 30.12 | 301 | 273 | A | V |
| | | 5749.565 | 54.82 | -13.38 | 68.2 | 40.98 | 32.23 | 11.78 | 30.17 | 301 | 273 | P | V |
| Remark | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## UNII-2C 5470~5725MHz

## WIFI 802.11ax HE80+80 Full (Harmonic @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11ax HE80+80 Full CH 106+122 5530MHz + 5610MHz | | 11060 | 52.38 | -21.62 | 74 | 54.11 | 40.19 | 17.23 | 59.15 | 391 | 10 | P | H |
| | | 11060 | 41.27 | -12.73 | 54 | 43 | 40.19 | 17.23 | 59.15 | 391 | 10 | A | H |
| | | 11220 | 52.97 | -21.03 | 74 | 54.9 | 39.84 | 17.37 | 59.14 | 396 | 15 | P | H |
| | | 11220 | 41.89 | -12.11 | 54 | 43.82 | 39.84 | 17.37 | 59.14 | 396 | 15 | A | H |
| | | 13281 | 51.89 | -22.11 | 74 | 54.45 | 39.24 | 19.16 | 60.96 | - | - | P | H |
| | | 13281 | 40.52 | -13.48 | 54 | 43.08 | 39.24 | 19.16 | 60.96 | - | - | A | H |
| | | 14491 | 52.06 | -21.94 | 74 | 51.55 | 41.76 | 20.04 | 61.29 | - | - | P | H |
| | | 14491 | 42.11 | -11.89 | 54 | 41.6 | 41.76 | 20.04 | 61.29 | - | - | A | H |
| | | 16590 | 49.38 | -18.82 | 68.2 | 49.02 | 38.63 | 21.55 | 59.82 | - | - | P | H |
| | | 16830 | 51.67 | -16.53 | 68.2 | 50.2 | 39.4 | 21.75 | 59.68 | - | - | P | H |
| | | 17978 | 60.59 | -13.41 | 74 | 45.95 | 47.87 | 22.99 | 56.22 | - | - | P | H |
| | | 17978 | 50.28 | -3.72 | 54 | 35.64 | 47.87 | 22.99 | 56.22 | - | - | A | H |
| | | 11060 | 52.93 | -21.07 | 74 | 54.68 | 40.17 | 17.23 | 59.15 | 298 | 251 | P | V |
| | | 11060 | 42.28 | -11.72 | 54 | 44.03 | 40.17 | 17.23 | 59.15 | 298 | 251 | A | V |
| | | 11220 | 55.62 | -18.38 | 74 | 57.49 | 39.9 | 17.37 | 59.14 | 298 | 37 | P | V |
| | | 11220 | 46.8 | -7.2 | 54 | 48.67 | 39.9 | 17.37 | 59.14 | 298 | 37 | A | V |
| | | 13358 | 51.76 | -22.24 | 74 | 53.96 | 39.55 | 19.22 | 60.97 | - | - | P | V |
| | | 13358 | 40.41 | -13.59 | 54 | 42.61 | 39.55 | 19.22 | 60.97 | - | - | A | V |
| | | 14491 | 52.13 | -21.87 | 74 | 51.75 | 41.63 | 20.04 | 61.29 | - | - | P | V |
| | | 14491 | 42.26 | -11.74 | 54 | 41.88 | 41.63 | 20.04 | 61.29 | - | - | A | V |
| | | 16590 | 49.69 | -18.51 | 68.2 | 49.18 | 38.78 | 21.55 | 59.82 | - | - | P | V |
| | | 16830 | 51.94 | -16.26 | 68.2 | 50.37 | 39.5 | 21.75 | 59.68 | - | - | P | V |
| | | 17989 | 60.34 | -13.66 | 74 | 45.77 | 47.76 | 23 | 56.19 | - | - | P | V |
| | | 17989 | 50.6 | -3.4 | 54 | 36.03 | 47.76 | 23 | 56.19 | - | - | A | V |
| **Remark** | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line.<br>3. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.<br>4. The emission level close to 18GHz is checked that the average emission level is noise floor only. | | | | | | | | | | | | |

## UNII-2C - Straddle Channel

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

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Path | Preamp | Ant | Table | Peak | Pol. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| | | ( MHz ) | ( dBµV/m ) | ( dB ) | ( dBµV/m ) | (dBµV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11a CH 144 5720MHz | | 5422.54 | 53.75 | -20.25 | 74 | 40.49 | 31.88 | 11.45 | 30.07 | 250 | 78 | P | H |
| | | 5465.05 | 52.64 | -15.56 | 68.2 | 39.23 | 32.01 | 11.49 | 30.09 | 250 | 78 | P | H |
| | | 5457.64 | 45.5 | -8.5 | 54 | 32.09 | 32.01 | 11.48 | 30.08 | 250 | 78 | A | H |
| | * | 5720 | 122.87 | - | - | 109.15 | 32.1 | 11.78 | 30.16 | 250 | 78 | P | H |
| | * | 5720 | 113.99 | - | - | 100.27 | 32.1 | 11.78 | 30.16 | 250 | 78 | A | H |
| | | 5862.5 | 54.06 | -14.14 | 68.2 | 39.91 | 32.45 | 11.89 | 30.19 | 250 | 78 | P | H |
| | | 5369.11 | 55.64 | -18.36 | 74 | 42.67 | 31.63 | 11.41 | 30.07 | 279 | 352 | P | V |
| | | 5463.88 | 54.09 | -14.11 | 68.2 | 40.73 | 31.96 | 11.49 | 30.09 | 279 | 352 | P | V |
| | | 5422.15 | 46.13 | -7.87 | 54 | 32.9 | 31.85 | 11.45 | 30.07 | 279 | 352 | A | V |
| | * | 5720 | 125.62 | - | - | 111.84 | 32.16 | 11.78 | 30.16 | 279 | 352 | P | V |
| | * | 5720 | 116.56 | - | - | 102.78 | 32.16 | 11.78 | 30.16 | 279 | 352 | A | V |
| | | 5891.75 | 55.07 | -13.13 | 68.2 | 40.76 | 32.58 | 11.95 | 30.22 | 279 | 352 | P | V |
| Remark | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## UNII-2C - Straddle Channel

## WIFI 802.11a (Harmonic @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11a CH 144 5720MHz | | 11440 | 55.6 | -18.4 | 74 | 65.52 | 40.15 | 17.57 | 67.64 | 400 | 126 | P | H |
| | | 11440 | 47.78 | -6.22 | 54 | 57.7 | 40.15 | 17.57 | 67.64 | 400 | 126 | A | H |
| | | 13380 | 50.3 | -23.7 | 74 | 59.14 | 39.6 | 19.24 | 67.68 | - | - | P | H |
| | | 13380 | 42.63 | -11.37 | 54 | 51.47 | 39.6 | 19.24 | 67.68 | - | - | A | H |
| | | 14491 | 51.92 | -22.08 | 74 | 57.86 | 41.76 | 20.04 | 67.74 | - | - | P | H |
| | | 14491 | 42.57 | -11.43 | 54 | 48.51 | 41.76 | 20.04 | 67.74 | - | - | A | H |
| | | 17160 | 49.46 | -18.74 | 68.2 | 56.82 | 39.54 | 22.08 | 68.98 | - | - | P | H |
| | | 17989 | 60.93 | -13.07 | 74 | 59.2 | 48.15 | 23 | 69.42 | - | - | P | H |
| | | 17989 | 50.43 | -3.57 | 54 | 48.7 | 48.15 | 23 | 69.42 | - | - | A | H |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | 11440 | 61.74 | -12.26 | 74 | 71.63 | 40.18 | 17.57 | 67.64 | 235 | 241 | P | V |
| | | 11440 | 53.57 | -0.43 | 54 | 63.46 | 40.18 | 17.57 | 67.64 | 235 | 241 | A | V |
| | | 13325 | 50.56 | -23.44 | 74 | 59.66 | 39.42 | 19.2 | 67.72 | - | - | P | V |
| | | 13325 | 43.32 | -10.68 | 54 | 52.42 | 39.42 | 19.2 | 67.72 | - | - | A | V |
| | | 14491 | 53.7 | -20.3 | 74 | 59.77 | 41.63 | 20.04 | 67.74 | - | - | P | V |
| | | 14491 | 43.73 | -10.27 | 54 | 49.8 | 41.63 | 20.04 | 67.74 | - | - | A | V |
| | | 17160 | 49.91 | -18.29 | 68.2 | 57.15 | 39.66 | 22.08 | 68.98 | - | - | P | V |
| | | 17978 | 60.57 | -13.43 | 74 | 59.5 | 47.5 | 22.99 | 69.42 | - | - | P | V |
| | | 17978 | 50.37 | -3.63 | 54 | 49.3 | 47.5 | 22.99 | 69.42 | - | - | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

**Remark**

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

## UNII-2C - Straddle Channel

## WIFI 802.11ax HE20 Full (Band Edge @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11ax HE20 Full CH 144 5720MHz | | 5417.08 | 53.75 | -20.25 | 74 | 40.51 | 31.86 | 11.45 | 30.07 | 252 | 83 | P | H |
| | | 5465.83 | 51.91 | -16.29 | 68.2 | 38.5 | 32.01 | 11.49 | 30.09 | 252 | 83 | P | H |
| | | 5459.98 | 45.02 | -8.98 | 54 | 31.61 | 32.01 | 11.48 | 30.08 | 252 | 83 | A | H |
| | * | 5720 | 125.51 | - | - | 111.79 | 32.1 | 11.78 | 30.16 | 252 | 83 | P | H |
| | * | 5720 | 114.24 | - | - | 100.52 | 32.1 | 11.78 | 30.16 | 252 | 83 | A | H |
| | | 5861.5 | 54.92 | -13.28 | 68.2 | 40.77 | 32.45 | 11.89 | 30.19 | 252 | 83 | P | H |
| | | 5389.39 | 54.73 | -19.27 | 74 | 41.66 | 31.72 | 11.42 | 30.07 | 298 | 353 | P | V |
| | | 5463.49 | 53.96 | -14.24 | 68.2 | 40.6 | 31.96 | 11.49 | 30.09 | 298 | 353 | P | V |
| | | 5456.86 | 45.58 | -8.42 | 54 | 32.22 | 31.96 | 11.48 | 30.08 | 298 | 353 | A | V |
| | * | 5720 | 126.63 | - | - | 112.85 | 32.16 | 11.78 | 30.16 | 298 | 353 | P | V |
| | * | 5720 | 116.15 | - | - | 102.37 | 32.16 | 11.78 | 30.16 | 298 | 353 | A | V |
| | | 5945.25 | 54.2 | -14 | 68.2 | 39.79 | 32.65 | 12.01 | 30.25 | 298 | 353 | P | V |
| Remark | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## UNII-2C - Straddle Channel

## WIFI 802.11ax HE20 Full (Harmonic @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11440 | 60.98 | -13.02 | 74 | 62.46 | 40.15 | 17.57 | 59.2 | 400 | 231 | P | H |
| | | 11440 | 53.19 | -0.81 | 54 | 54.67 | 40.15 | 17.57 | 59.2 | 400 | 231 | A | H |
| | | 13391 | 51.29 | -22.71 | 74 | 53.37 | 39.64 | 19.25 | 60.97 | - | - | P | H |
| | | 13391 | 41.97 | -12.03 | 54 | 44.05 | 39.64 | 19.25 | 60.97 | - | - | A | H |
| | | 14491 | 52.26 | -21.74 | 74 | 51.75 | 41.76 | 20.04 | 61.29 | - | - | P | H |
| | | 14491 | 41.03 | -12.97 | 54 | 40.52 | 41.76 | 20.04 | 61.29 | - | - | A | H |
| | | 17160 | 50.34 | -17.86 | 68.2 | 47.31 | 39.54 | 22.08 | 58.59 | - | - | P | H |
| | | 17945 | 60.28 | -13.72 | 74 | 46.6 | 47.04 | 22.95 | 56.31 | - | - | P | H |
| | | 17945 | 49.18 | -4.82 | 54 | 35.5 | 47.04 | 22.95 | 56.31 | - | - | A | H |
| | | | | | | | | | | | | | |
| **802.11ax** | | | | | | | | | | | | | |
| **HE20 Full** | | | | | | | | | | | | | |
| **CH 144** | | 11440 | 61.15 | -12.85 | 74 | 62.6 | 40.18 | 17.57 | 59.2 | 307 | 118 | P | V |
| **5720MHz** | | 11440 | 53.59 | -0.41 | 54 | 55.04 | 40.18 | 17.57 | 59.2 | 307 | 118 | A | V |
| | | 13358 | 51.66 | -22.34 | 74 | 53.86 | 39.55 | 19.22 | 60.97 | - | - | P | V |
| | | 13358 | 41.54 | -12.46 | 54 | 43.74 | 39.55 | 19.22 | 60.97 | - | - | A | V |
| | | 14491 | 50.85 | -23.15 | 74 | 50.47 | 41.63 | 20.04 | 61.29 | - | - | P | V |
| | | 14491 | 42.12 | -11.88 | 54 | 41.74 | 41.63 | 20.04 | 61.29 | - | - | A | V |
| | | 17160 | 50.8 | -17.4 | 68.2 | 47.65 | 39.66 | 22.08 | 58.59 | - | - | P | V |
| | | 18000 | 60.66 | -13.34 | 74 | 45.8 | 48.01 | 23.01 | 56.16 | - | - | P | V |
| | | 18000 | 50.48 | -3.52 | 54 | 35.62 | 48.01 | 23.01 | 56.16 | - | - | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

**Remark**

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

## UNII-2C - Straddle Channel

## WIFI 802.11ax HE40 Full (Band Edge @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level ( dBµV ) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11ax HE40 Full CH 142 5710MHz | | 5430.34 | 53.41 | -20.59 | 74 | 40.11 | 31.92 | 11.46 | 30.08 | 345 | 61 | P | H |
| | | 5466.22 | 52.53 | -15.67 | 68.2 | 39.12 | 32.01 | 11.49 | 30.09 | 345 | 61 | P | H |
| | | 5449.45 | 45.41 | -8.59 | 54 | 32.02 | 32 | 11.47 | 30.08 | 345 | 61 | A | H |
| | * | 5710 | 123.53 | - | - | 109.84 | 32.07 | 11.78 | 30.16 | 345 | 61 | P | H |
| | * | 5710 | 113.66 | - | - | 99.97 | 32.07 | 11.78 | 30.16 | 345 | 61 | A | H |
| | | 5900.75 | 54.49 | -13.71 | 68.2 | 40.27 | 32.49 | 11.96 | 30.23 | 345 | 61 | P | H |
| | | 5373.79 | 56.23 | -17.77 | 74 | 43.24 | 31.65 | 11.41 | 30.07 | 295 | 351 | P | V |
| | | 5462.71 | 53.89 | -14.31 | 68.2 | 40.53 | 31.96 | 11.49 | 30.09 | 295 | 351 | P | V |
| | | 5399.92 | 46.36 | -7.64 | 54 | 33.23 | 31.77 | 11.43 | 30.07 | 295 | 351 | A | V |
| | * | 5710 | 125.15 | - | - | 111.39 | 32.14 | 11.78 | 30.16 | 295 | 351 | P | V |
| | * | 5710 | 115.56 | - | - | 101.8 | 32.14 | 11.78 | 30.16 | 295 | 351 | A | V |
| | | 5851 | 56.73 | -11.47 | 68.2 | 42.58 | 32.46 | 11.87 | 30.18 | 295 | 351 | P | V |
| **Remark** | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## UNII-2C - Straddle Channel

## WIFI 802.11ax HE40 Full (Harmonic @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level ( dBµV ) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11420 | 56.26 | -17.74 | 74 | 57.8 | 40.12 | 17.55 | 59.21 | 400 | 2 | P | H |
| | | 11420 | 47.36 | -6.64 | 54 | 48.9 | 40.12 | 17.55 | 59.21 | 400 | 2 | A | H |
| | | 13380 | 50.47 | -23.53 | 74 | 52.6 | 39.6 | 19.24 | 60.97 | - | - | P | H |
| | | 13380 | 40.47 | -13.53 | 54 | 42.6 | 39.6 | 19.24 | 60.97 | - | - | A | H |
| | | 14491 | 51.7 | -22.3 | 74 | 51.19 | 41.76 | 20.04 | 61.29 | - | - | P | H |
| | | 14491 | 42.27 | -11.73 | 54 | 41.76 | 41.76 | 20.04 | 61.29 | - | - | A | H |
| | | 17130 | 50.43 | -17.77 | 68.2 | 47.65 | 39.47 | 22.05 | 58.74 | - | - | P | H |
| | | 17978 | 60.43 | -13.57 | 74 | 45.79 | 47.87 | 22.99 | 56.22 | - | - | P | H |
| | | 17978 | 50.23 | -3.77 | 54 | 35.59 | 47.87 | 22.99 | 56.22 | - | - | A | H |
| | | | | | | | | | | | | | |
| **802.11ax** | | | | | | | | | | | | | |
| **HE40 Full** | | | | | | | | | | | | | |
| **CH 142** | | 11420 | 60.49 | -13.51 | 74 | 62.02 | 40.13 | 17.55 | 59.21 | 240 | 241 | P | V |
| **5710MHz** | | 11420 | 53.44 | -0.56 | 54 | 54.97 | 40.13 | 17.55 | 59.21 | 240 | 241 | A | V |
| | | 13281 | 50.35 | -23.65 | 74 | 52.92 | 39.23 | 19.16 | 60.96 | - | - | P | V |
| | | 13281 | 40.48 | -13.52 | 54 | 43.05 | 39.23 | 19.16 | 60.96 | - | - | A | V |
| | | 14491 | 51.29 | -22.71 | 74 | 50.91 | 41.63 | 20.04 | 61.29 | - | - | P | V |
| | | 14491 | 41.47 | -12.53 | 54 | 41.09 | 41.63 | 20.04 | 61.29 | - | - | A | V |
| | | 17130 | 50.93 | -17.27 | 68.2 | 48.02 | 39.6 | 22.05 | 58.74 | - | - | P | V |
| | | 17967 | 60.77 | -13.23 | 74 | 46.8 | 47.25 | 22.97 | 56.25 | - | - | P | V |
| | | 17967 | 50.17 | -3.83 | 54 | 36.2 | 47.25 | 22.97 | 56.25 | - | - | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

**Remark**

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

## UNII-2C Straddle Channel

## WIFI 802.11ax HE80 Full (Band Edge @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11ax HE80 Full CH 138 5690MHz | | 5373.4 | 54.44 | -19.56 | 74 | 41.45 | 31.65 | 11.41 | 30.07 | 283 | 82 | P | H |
| | | 5466.61 | 56.12 | -12.08 | 68.2 | 42.71 | 32.01 | 11.49 | 30.09 | 283 | 82 | P | H |
| | | 5450.62 | 46.53 | -7.47 | 54 | 33.13 | 32 | 11.48 | 30.08 | 283 | 82 | A | H |
| | * | 5690 | 116.24 | - | - | 102.6 | 32.02 | 11.77 | 30.15 | 283 | 82 | P | H |
| | * | 5690 | 108.66 | - | - | 95.02 | 32.02 | 11.77 | 30.15 | 283 | 82 | A | H |
| | | 5852.5 | 58.85 | -9.35 | 68.2 | 44.72 | 32.44 | 11.87 | 30.18 | 283 | 82 | P | H |
| | | 5364.04 | 56.6 | -17.4 | 74 | 43.66 | 31.6 | 11.41 | 30.07 | 296 | 351 | P | V |
| | | 5464.66 | 57.7 | -10.5 | 68.2 | 44.34 | 31.96 | 11.49 | 30.09 | 296 | 351 | P | V |
| | | 5457.64 | 48.93 | -5.07 | 54 | 35.57 | 31.96 | 11.48 | 30.08 | 296 | 351 | A | V |
| | * | 5690 | 119.66 | - | - | 105.94 | 32.1 | 11.77 | 30.15 | 296 | 351 | P | V |
| | * | 5690 | 110.87 | - | - | 97.15 | 32.1 | 11.77 | 30.15 | 296 | 351 | A | V |
| | | 5852.75 | 65.3 | -2.9 | 68.2 | 51.15 | 32.46 | 11.87 | 30.18 | 296 | 351 | P | V |
| Remark | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## UNII-2C - Straddle Channel

## WIFI 802.11ax HE80 Full (Harmonic @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11380 | 54.76 | -19.24 | 74 | 56.4 | 40.03 | 17.51 | 59.18 | 400 | 330 | P | H |
| | | 11380 | 47.06 | -6.94 | 54 | 48.7 | 40.03 | 17.51 | 59.18 | 400 | 330 | A | H |
| | | 13270 | 51.36 | -22.64 | 74 | 53.96 | 39.2 | 19.15 | 60.95 | - | - | P | H |
| | | 13270 | 39.96 | -14.04 | 54 | 42.56 | 39.2 | 19.15 | 60.95 | - | - | A | H |
| | | 14491 | 52.08 | -21.92 | 74 | 51.57 | 41.76 | 20.04 | 61.29 | - | - | P | H |
| | | 14491 | 41.69 | -12.31 | 54 | 41.18 | 41.76 | 20.04 | 61.29 | - | - | A | H |
| | | 17070 | 50.21 | -17.99 | 68.2 | 47.74 | 39.43 | 21.99 | 58.95 | - | - | P | H |
| | | 18000 | 61.08 | -12.92 | 74 | 45.8 | 48.43 | 23.01 | 56.16 | - | - | P | H |
| | | 18000 | 50.48 | -3.52 | 54 | 35.2 | 48.43 | 23.01 | 56.16 | - | - | A | H |
| | | | | | | | | | | | | | |
| **802.11ax** | | | | | | | | | | | | | |
| **HE80 Full** | | | | | | | | | | | | | |
| **CH 138** | | 11380 | 59.6 | -14.4 | 74 | 61.25 | 40.02 | 17.51 | 59.18 | 312 | 79 | P | V |
| **5690MHz** | | 11380 | 51.77 | -2.23 | 54 | 53.42 | 40.02 | 17.51 | 59.18 | 312 | 79 | A | V |
| | | 13358 | 51.45 | -22.55 | 74 | 53.65 | 39.55 | 19.22 | 60.97 | - | - | P | V |
| | | 13358 | 40.56 | -13.44 | 54 | 42.76 | 39.55 | 19.22 | 60.97 | - | - | A | V |
| | | 14491 | 51.17 | -22.83 | 74 | 50.79 | 41.63 | 20.04 | 61.29 | - | - | P | V |
| | | 14491 | 43.05 | -10.95 | 54 | 42.67 | 41.63 | 20.04 | 61.29 | - | - | A | V |
| | | 17070 | 50.57 | -17.63 | 68.2 | 47.95 | 39.58 | 21.99 | 58.95 | - | - | P | V |
| | | 17956 | 59.87 | -14.13 | 74 | 46.2 | 46.99 | 22.96 | 56.28 | - | - | P | V |
| | | 17956 | 49.57 | -4.43 | 54 | 35.9 | 46.99 | 22.96 | 56.28 | - | - | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

**Remark**

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

## UNII-2C - Straddle Channel

## WIFI 802.11ax HE80+80 Full (Band Edge @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11ax HE 80+80MHz Full CH 122+138 5610MHz + 5690MHz | | 5451.01 | 58.43 | -15.57 | 74 | 45.03 | 32 | 11.48 | 30.08 | 252 | 163 | P | H |
| | | 5467 | 61.84 | -6.36 | 68.2 | 48.43 | 32.01 | 11.49 | 30.09 | 252 | 163 | P | H |
| | | 5449.84 | 53.43 | -0.57 | 54 | 40.04 | 32 | 11.47 | 30.08 | 252 | 163 | A | H |
| | * | 5610 | 113.23 | - | - | 99.7 | 31.99 | 11.66 | 30.12 | 252 | 163 | P | H |
| | * | 5610 | 105.18 | - | - | 91.65 | 31.99 | 11.66 | 30.12 | 252 | 163 | A | H |
| | * | 5690 | 109.32 | - | - | 95.68 | 32.02 | 11.77 | 30.15 | 252 | 163 | P | H |
| | * | 5690 | 101.44 | - | - | 87.8 | 32.02 | 11.77 | 30.15 | 252 | 163 | A | H |
| | | 5854.1 | 56.06 | -12.14 | 68.2 | 41.92 | 32.44 | 11.88 | 30.18 | 252 | 163 | P | H |
| | | 5450.62 | 56.93 | -17.07 | 74 | 43.57 | 31.96 | 11.48 | 30.08 | 260 | 350 | P | V |
| | | 5470 | 61.16 | -7.04 | 68.2 | 47.79 | 31.97 | 11.49 | 30.09 | 260 | 350 | P | V |
| | | 5459.98 | 49.9 | -4.1 | 54 | 36.54 | 31.96 | 11.48 | 30.08 | 260 | 350 | A | V |
| | * | 5610 | 112.37 | - | - | 98.79 | 32.04 | 11.66 | 30.12 | 260 | 350 | P | V |
| | * | 5610 | 104.5 | - | - | 90.92 | 32.04 | 11.66 | 30.12 | 260 | 350 | A | V |
| | * | 5690 | 114.18 | - | - | 100.46 | 32.1 | 11.77 | 30.15 | 260 | 350 | P | V |
| | * | 5690 | 106.22 | - | - | 92.5 | 32.1 | 11.77 | 30.15 | 260 | 350 | A | V |
| | | 5850 | 60.89 | -7.31 | 68.2 | 46.75 | 32.45 | 11.87 | 30.18 | 260 | 350 | P | V |
| Remark | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## WIFI 802.11ax HE80+80 Full (Harmonic @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBμV/m ) | Over Limit ( dB ) | Limit Line ( dBμV/m ) | Read Level (dBμV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11ax HE80+80MHz Full CH 122+138 5610MHz + 5690MHz | | 11220 | 53.91 | -20.09 | 74 | 55.84 | 39.84 | 17.37 | 59.14 | 372 | 356 | P | H |
| | | 11220 | 44.63 | -9.37 | 54 | 46.56 | 39.84 | 17.37 | 59.14 | 372 | 356 | A | H |
| | | 11380 | 56.45 | -17.55 | 74 | 58.09 | 40.03 | 17.51 | 59.18 | 398 | 74 | P | H |
| | | 11380 | 47.33 | -6.67 | 54 | 48.97 | 40.03 | 17.51 | 59.18 | 398 | 74 | A | H |
| | | 13380 | 51.55 | -22.45 | 74 | 53.68 | 39.6 | 19.24 | 60.97 | - | - | P | H |
| | | 13380 | 40.39 | -13.61 | 54 | 42.52 | 39.6 | 19.24 | 60.97 | - | - | A | H |
| | | 14491 | 52.78 | -21.22 | 74 | 52.27 | 41.76 | 20.04 | 61.29 | - | - | P | H |
| | | 14491 | 42.12 | -11.88 | 54 | 41.61 | 41.76 | 20.04 | 61.29 | - | - | A | H |
| | | 16830 | 51.42 | -16.78 | 68.2 | 49.95 | 39.4 | 21.75 | 59.68 | - | - | P | H |
| | | 17070 | 50.22 | -17.98 | 68.2 | 47.75 | 39.43 | 21.99 | 58.95 | - | - | P | H |
| | | 17978 | 60.6 | -13.4 | 74 | 45.96 | 47.87 | 22.99 | 56.22 | - | - | P | H |
| | | 17978 | 50.67 | -3.33 | 54 | 36.03 | 47.87 | 22.99 | 56.22 | - | - | A | H |
| | | 11220 | 54.09 | -19.91 | 74 | 55.96 | 39.9 | 17.37 | 59.14 | 303 | 24 | P | V |
| | | 11220 | 44.94 | -9.06 | 54 | 46.81 | 39.9 | 17.37 | 59.14 | 303 | 24 | A | V |
| | | 11380 | 58.82 | -15.18 | 74 | 60.47 | 40.02 | 17.51 | 59.18 | 209 | 232 | P | V |
| | | 11380 | 49.48 | -4.52 | 54 | 51.13 | 40.02 | 17.51 | 59.18 | 209 | 232 | A | V |
| | | 13380 | 51.18 | -22.82 | 74 | 53.31 | 39.6 | 19.24 | 60.97 | - | - | P | V |
| | | 13380 | 40.52 | -13.48 | 54 | 42.65 | 39.6 | 19.24 | 60.97 | - | - | A | V |
| | | 14491 | 51.88 | -22.12 | 74 | 51.5 | 41.63 | 20.04 | 61.29 | - | - | P | V |
| | | 14491 | 42.2 | -11.8 | 54 | 41.82 | 41.63 | 20.04 | 61.29 | - | - | A | V |
| | | 16830 | 51.55 | -16.65 | 68.2 | 49.98 | 39.5 | 21.75 | 59.68 | - | - | P | V |
| | | 17070 | 50.24 | -17.96 | 68.2 | 47.62 | 39.58 | 21.99 | 58.95 | - | - | P | V |
| | | 18000 | 60.07 | -13.93 | 74 | 45.21 | 48.01 | 23.01 | 56.16 | - | - | P | V |
| | | 18000 | 50.72 | -3.28 | 54 | 35.86 | 48.01 | 23.01 | 56.16 | - | - | A | V |
| **Remark** | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line.<br>3. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.<br>4. The emission level close to 18GHz is checked that the average emission level is noise floor only. | | | | | | | | | | | | |

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11ax HE80+80MHz Full CH 122+138 5610MHz + 5690MHz | | 5404.99 | 52.74 | -21.26 | 74 | 39.58 | 31.8 | 11.43 | 30.07 | 321 | 73 | P | H |
| | | 5465.44 | 53.52 | -14.68 | 68.2 | 40.11 | 32.01 | 11.49 | 30.09 | 321 | 73 | P | H |
| | | 5350 | 46.12 | -7.88 | 54 | 33.25 | 31.54 | 11.4 | 30.07 | 321 | 73 | A | H |
| | * | 5690 | 108.33 | - | - | 94.69 | 32.02 | 11.77 | 30.15 | 321 | 73 | P | H |
| | * | 5690 | 100.13 | - | - | 86.49 | 32.02 | 11.77 | 30.15 | 321 | 73 | A | H |
| | * | 5775 | 113.2 | - | - | 99.3 | 32.29 | 11.78 | 30.17 | 321 | 73 | P | H |
| | * | 5775 | 105.42 | - | - | 91.52 | 32.29 | 11.78 | 30.17 | 321 | 73 | A | H |
| | | 5851 | 78.82 | -41.1 | 119.92 | 64.69 | 32.44 | 11.87 | 30.18 | 321 | 73 | P | H |
| | | 5855.6 | 77.98 | -32.65 | 110.63 | 63.84 | 32.45 | 11.88 | 30.19 | 321 | 73 | P | H |
| | | 5875.8 | 68.36 | -36.25 | 104.61 | 54.18 | 32.47 | 11.92 | 30.21 | 321 | 73 | P | H |
| | | 5946 | 53.98 | -14.22 | 68.2 | 39.66 | 32.55 | 12.02 | 30.25 | 321 | 73 | P | H |
| | | 5442.43 | 54.76 | -19.24 | 74 | 41.44 | 31.93 | 11.47 | 30.08 | 296 | 350 | P | V |
| | | 5467.78 | 55.07 | -13.13 | 68.2 | 41.71 | 31.96 | 11.49 | 30.09 | 296 | 350 | P | V |
| | | 5459.2 | 46.68 | -7.32 | 54 | 33.32 | 31.96 | 11.48 | 30.08 | 296 | 350 | A | V |
| | * | 5690 | 112.02 | - | - | 98.3 | 32.1 | 11.77 | 30.15 | 296 | 350 | P | V |
| | * | 5690 | 104.13 | - | - | 90.41 | 32.1 | 11.77 | 30.15 | 296 | 350 | A | V |
| | * | 5775 | 115.62 | - | - | 101.75 | 32.26 | 11.78 | 30.17 | 296 | 350 | P | V |
| | * | 5775 | 107.68 | - | - | 93.81 | 32.26 | 11.78 | 30.17 | 296 | 350 | A | V |
| | | 5850.2 | 82.5 | -39.24 | 121.74 | 68.36 | 32.45 | 11.87 | 30.18 | 296 | 350 | P | V |
| | | 5855.6 | 80.81 | -29.82 | 110.63 | 66.65 | 32.47 | 11.88 | 30.19 | 296 | 350 | P | V |
| | | 5878 | 71.86 | -31.11 | 102.97 | 57.61 | 32.54 | 11.92 | 30.21 | 296 | 350 | P | V |
| | | 5934.2 | 55.69 | -12.51 | 68.2 | 41.29 | 32.64 | 12 | 30.24 | 296 | 350 | P | V |
| **Remark** | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11ax HE80+80 CH 138+155 5690MHz + 5775MHz | | 11380 | 56.72 | -17.28 | 74 | 58.36 | 40.03 | 17.51 | 59.18 | 313 | 186 | P | H |
| | | 11380 | 47.48 | -6.52 | 54 | 49.12 | 40.03 | 17.51 | 59.18 | 313 | 186 | A | H |
| | | 11550 | 58.63 | -15.37 | 74 | 60.07 | 40.18 | 17.67 | 59.29 | 306 | 296 | P | H |
| | | 11550 | 49.64 | -4.36 | 54 | 51.08 | 40.18 | 17.67 | 59.29 | 306 | 296 | A | H |
| | | 13391 | 51.35 | -22.65 | 74 | 53.43 | 39.64 | 19.25 | 60.97 | - | - | P | H |
| | | 13391 | 40.43 | -13.57 | 54 | 42.51 | 39.64 | 19.25 | 60.97 | - | - | A | H |
| | | 14491 | 51.98 | -22.02 | 74 | 51.47 | 41.76 | 20.04 | 61.29 | - | - | P | H |
| | | 14491 | 41.96 | -12.04 | 54 | 41.45 | 41.76 | 20.04 | 61.29 | - | - | A | H |
| | | 17070 | 49.83 | -18.37 | 68.2 | 47.36 | 39.43 | 21.99 | 58.95 | - | - | P | H |
| | | 17325 | 52.95 | -15.25 | 68.2 | 48.16 | 40.35 | 22.26 | 57.82 | - | - | P | H |
| | | 17978 | 60.8 | -13.2 | 74 | 46.16 | 47.87 | 22.99 | 56.22 | - | - | P | H |
| | | 17978 | 50.24 | -3.76 | 54 | 35.6 | 47.87 | 22.99 | 56.22 | - | - | A | H |
| | | 11380 | 59.44 | -14.56 | 74 | 61.09 | 40.02 | 17.51 | 59.18 | 309 | 76 | P | V |
| | | 11380 | 50.29 | -3.71 | 54 | 51.94 | 40.02 | 17.51 | 59.18 | 309 | 76 | A | V |
| | | 11550 | 62.1 | -11.9 | 74 | 63.54 | 40.18 | 17.67 | 59.29 | 100 | 117 | P | V |
| | | 11550 | 52.78 | -1.22 | 54 | 54.22 | 40.18 | 17.67 | 59.29 | 100 | 117 | A | V |
| | | 13369 | 51.14 | -22.86 | 74 | 53.31 | 39.57 | 19.23 | 60.97 | - | - | P | V |
| | | 13369 | 40.34 | -13.66 | 54 | 42.51 | 39.57 | 19.23 | 60.97 | - | - | A | V |
| | | 14491 | 51.63 | -22.37 | 74 | 51.25 | 41.63 | 20.04 | 61.29 | - | - | P | V |
| | | 14491 | 42.12 | -11.88 | 54 | 41.74 | 41.63 | 20.04 | 61.29 | - | - | A | V |
| | | 17070 | 50.25 | -17.95 | 68.2 | 47.63 | 39.58 | 21.99 | 58.95 | - | - | P | V |
| | | 17325 | 53.19 | -15.01 | 68.2 | 48.17 | 40.58 | 22.26 | 57.82 | - | - | P | V |
| | | 17989 | 60.67 | -13.33 | 74 | 46.1 | 47.76 | 23 | 56.19 | - | - | P | V |
| | | 17989 | 50.61 | -3.39 | 54 | 36.04 | 47.76 | 23 | 56.19 | - | - | A | V |

**Remark**

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

## Emission above 18GHz

## WIFI 802.11ax HE80 Full (SHF @ 1m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Path | Preamp | Ant | Table | Peak | Pol. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| | | ( MHz ) | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11ax HE80 Full CH58 5290MHz SHF | | 36480 | 45.8 | -28.2 | 74 | 36.13 | 42.54 | 21.91 | 54.78 | - | - | P | H |
| | | 39846 | 53.01 | -20.99 | 74 | 37.33 | 44.85 | 24.49 | 53.66 | - | - | P | H |
| | | 39846 | 45.34 | -8.66 | 54 | 29.66 | 44.85 | 24.49 | 53.66 | - | - | A | H |
| | | | | | | | | | | | | | |
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| | | 36480 | 47.73 | -26.27 | 74 | 38.01 | 42.59 | 21.91 | 54.78 | - | - | P | V |
| | | 39956 | 52.57 | -21.43 | 74 | 37.5 | 44.68 | 24.56 | 54.17 | - | - | P | V |
| | | 39956 | 45.14 | -8.86 | 54 | 30.07 | 44.68 | 24.56 | 54.17 | - | - | A | V |
| | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | |
| Remark | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line.<br>3. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only. | | | | | | | | | | | | |

## Emission below 1GHz

## WIFI 802.11ax HE80 Full (LF @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Path | Preamp | Ant | Table | Peak | Pol. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| | | ( MHz ) | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11ax HE80 Full CH58 5290MHz LF | | 65.89 | 31.86 | -8.14 | 40 | 50.87 | 12 | 1.42 | 32.43 | - | - | P | H |
| | | 321 | 33.38 | -12.62 | 46 | 43.45 | 19.42 | 2.95 | 32.44 | - | - | P | H |
| | | 500.45 | 33.74 | -12.26 | 46 | 38.87 | 23.81 | 3.64 | 32.58 | - | - | P | H |
| | | 749.74 | 35.75 | -10.25 | 46 | 35.48 | 27.99 | 4.66 | 32.38 | - | - | P | H |
| | | 874.87 | 38.21 | -7.79 | 46 | 35.95 | 29.1 | 4.94 | 31.78 | 154 | 206 | Q | H |
| | | 874.87 | 41.56 | -4.44 | 46 | 39.3 | 29.1 | 4.94 | 31.78 | 154 | 206 | P | H |
| | | 922.4 | 38.28 | -7.72 | 46 | 35.07 | 29.55 | 5.1 | 31.44 | - | - | P | H |
| | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | |
| | | 37.76 | 33.95 | -6.05 | 40 | 44.32 | 21.02 | 1.05 | 32.44 | - | - | P | V |
| | | 62.01 | 33.56 | -6.44 | 40 | 52.91 | 11.7 | 1.38 | 32.43 | - | - | P | V |
| | | 105.66 | 30.79 | -12.71 | 43.5 | 44.9 | 16.57 | 1.73 | 32.41 | - | - | P | V |
| | | 500.45 | 31.13 | -14.87 | 46 | 36.26 | 23.81 | 3.64 | 32.58 | - | - | P | V |
| | | 754.59 | 36.86 | -9.14 | 46 | 36.57 | 28 | 4.66 | 32.37 | - | - | P | V |
| | | 874.87 | 39.38 | -6.62 | 46 | 37.12 | 29.1 | 4.94 | 31.78 | - | - | P | V |
| | | | | | | | | | | | | | |
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**Remark**

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.

**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 | Path | Preamp | Ant | Table | Peak | Pol. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| | | ( MHz ) | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11a CH 36 5180MHz | | 5150 | 58.84 | -15.16 | 74 | 45.00 | 31.86 | 11.19 | 29.21 | 141 | 240 | P | H |
| | | 5150 | 48.84 | -5.16 | 54 | 35.00 | 31.86 | 11.19 | 29.21 | 214 | 78 | A | H |

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

**For Peak Limit @ 5150MHz:**

1. Level(dBμV/m)

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

= 31.86(dB/m) + 11.19(dB) + 45.00(dBμV) – 29.21 (dB)

= 58.84 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 58.84(dBμV/m) – 74(dBμV/m)

= -15.16(dB)

**For Average Limit @ 5150MHz:**

1. Level(dBμV/m)

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

= 31.86(dB/m) + 11.19(dB) + 35.00(dBμV) – 29.21 (dB)

= 48.84 (dBμV/m)

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

= 48.84 (dBμV/m) – 54(dBμV/m)

= -5.16 (dB)

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

**<Radio 3>**

## UNII-2C - 5470~5725MHz

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

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11a CH 100 5500MHz | | 5459.44 | 57.44 | -16.56 | 74 | 44.03 | 32.01 | 11.48 | 30.08 | 207 | 288 | P | H |
| | | 5467.92 | 62.31 | -5.89 | 68.2 | 48.9 | 32.01 | 11.49 | 30.09 | 207 | 288 | P | H |
| | | 5460 | 51.26 | -2.74 | 54 | 37.85 | 32.01 | 11.48 | 30.08 | 207 | 288 | A | H |
| | * | 5500 | 124.78 | - | - | 111.33 | 32.03 | 11.52 | 30.1 | 207 | 288 | P | H |
| | * | 5500 | 116.54 | - | - | 103.09 | 32.03 | 11.52 | 30.1 | 207 | 288 | A | H |
| | | | | | | | | | | | | | |
| | | 5447.6 | 54.81 | -19.19 | 74 | 41.47 | 31.95 | 11.47 | 30.08 | 310 | 67 | P | V |
| | | 5468.4 | 62.14 | -6.06 | 68.2 | 48.78 | 31.96 | 11.49 | 30.09 | 310 | 67 | P | V |
| | | 5449.2 | 46.58 | -7.42 | 54 | 33.24 | 31.95 | 11.47 | 30.08 | 310 | 67 | A | V |
| | * | 5500 | 122.57 | - | - | 109.17 | 31.98 | 11.52 | 30.1 | 310 | 67 | P | V |
| | * | 5500 | 114.72 | - | - | 101.32 | 31.98 | 11.52 | 30.1 | 310 | 67 | A | V |
| | | | | | | | | | | | | | |
| 802.11a CH 116 5580MHz | | 5459.68 | 52.99 | -21.01 | 74 | 39.58 | 32.01 | 11.48 | 30.08 | 203 | 288 | P | H |
| | | 5464.72 | 52.7 | -15.5 | 68.2 | 39.29 | 32.01 | 11.49 | 30.09 | 203 | 288 | P | H |
| | | 5455.6 | 45.81 | -8.19 | 54 | 32.4 | 32.01 | 11.48 | 30.08 | 203 | 288 | A | H |
| | * | 5580 | 124.95 | - | - | 111.45 | 31.99 | 11.62 | 30.11 | 203 | 288 | P | H |
| | * | 5580 | 116.88 | - | - | 103.38 | 31.99 | 11.62 | 30.11 | 203 | 288 | A | H |
| | | 5756.18 | 56.13 | -12.07 | 68.2 | 42.3 | 32.22 | 11.78 | 30.17 | 203 | 288 | P | H |
| | | 5427.76 | 53.21 | -20.79 | 74 | 39.96 | 31.88 | 11.45 | 30.08 | 276 | 68 | P | V |
| | | 5463.52 | 53.49 | -14.71 | 68.2 | 40.13 | 31.96 | 11.49 | 30.09 | 276 | 68 | P | V |
| | | 5457.76 | 45.65 | -8.35 | 54 | 32.29 | 31.96 | 11.48 | 30.08 | 276 | 68 | A | V |
| | * | 5580 | 122.5 | - | - | 108.93 | 32.06 | 11.62 | 30.11 | 276 | 68 | P | V |
| | * | 5580 | 114.27 | - | - | 100.7 | 32.06 | 11.62 | 30.11 | 276 | 68 | A | V |
| | | 5743.58 | 55.88 | -12.32 | 68.2 | 42.05 | 32.22 | 11.78 | 30.17 | 276 | 68 | P | V |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11a CH 140 5700MHz | * | 5700 | 121.41 | - | - | 107.75 | 32.04 | 11.78 | 30.16 | 194 | 296 | P | H |
| | * | 5700 | 113.61 | - | - | 99.95 | 32.04 | 11.78 | 30.16 | 194 | 296 | A | H |
| | | 5727.24 | 67.63 | -0.57 | 68.2 | 53.9 | 32.12 | 11.78 | 30.17 | 194 | 296 | P | H |
| | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | |
| | * | 5700 | 120.44 | - | - | 106.7 | 32.12 | 11.78 | 30.16 | 280 | 69 | P | V |
| | * | 5700 | 112.18 | - | - | 98.44 | 32.12 | 11.78 | 30.16 | 280 | 69 | A | V |
| | | 5727.4 | 66.83 | -1.37 | 68.2 | 53.04 | 32.18 | 11.78 | 30.17 | 280 | 69 | P | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
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| | |
|---|---|
| **Remark** | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |

## UNII-2C - 5470~5725MHz

## WIFI 802.11a (Harmonic @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11000 | 56.08 | -17.92 | 74 | 66.59 | 40.34 | 17.17 | 68.02 | 288 | 121 | P | H |
| | | 11000 | 46.33 | -7.67 | 54 | 56.84 | 40.34 | 17.17 | 68.02 | 288 | 121 | A | H |
| | | 13369 | 50.75 | -23.25 | 74 | 59.65 | 39.56 | 19.23 | 67.69 | - | - | P | H |
| | | 13369 | 42.54 | -11.46 | 54 | 51.44 | 39.56 | 19.23 | 67.69 | - | - | A | H |
| | | 14491 | 52.1 | -21.9 | 74 | 57.86 | 41.94 | 20.04 | 67.74 | - | - | P | H |
| | | 14491 | 42.66 | -11.34 | 54 | 48.42 | 41.94 | 20.04 | 67.74 | - | - | A | H |
| | | 16500 | 50.07 | -18.13 | 68.2 | 57.34 | 39.13 | 21.47 | 67.87 | - | - | P | H |
| | | 17989 | 60.6 | -13.4 | 74 | 58.49 | 48.53 | 23 | 69.42 | - | - | P | H |
| | | 17989 | 50.22 | -3.78 | 54 | 48.11 | 48.53 | 23 | 69.42 | - | - | A | H |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 802.11a CH 100 5500MHz | | | | | | | | | | | | | |
| | | 11000 | 59.04 | -14.96 | 74 | 69.42 | 40.47 | 17.17 | 68.02 | 277 | 18 | P | V |
| | | 11000 | 49.79 | -4.21 | 54 | 60.17 | 40.47 | 17.17 | 68.02 | 277 | 18 | A | V |
| | | 13270 | 50.29 | -23.71 | 74 | 59.67 | 39.22 | 19.15 | 67.75 | - | - | P | V |
| | | 13270 | 42.35 | -11.65 | 54 | 51.73 | 39.22 | 19.15 | 67.75 | - | - | A | V |
| | | 14491 | 52.8 | -21.2 | 74 | 58.55 | 41.95 | 20.04 | 67.74 | - | - | P | V |
| | | 14491 | 43.33 | -10.67 | 54 | 49.08 | 41.95 | 20.04 | 67.74 | - | - | A | V |
| | | 16500 | 50.94 | -17.26 | 68.2 | 58.07 | 39.27 | 21.47 | 67.87 | - | - | P | V |
| | | 17934 | 60.17 | -13.83 | 74 | 59.11 | 47.54 | 22.94 | 69.42 | - | - | P | V |
| | | 17934 | 50.54 | -3.46 | 54 | 49.48 | 47.54 | 22.94 | 69.42 | - | - | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11160 | 53.51 | -20.49 | 74 | 64.11 | 39.97 | 17.31 | 67.88 | 300 | 76 | P | H |
| | | 11160 | 43.98 | -10.02 | 54 | 54.58 | 39.97 | 17.31 | 67.88 | 300 | 76 | A | H |
| | | 13314 | 49.76 | -24.24 | 74 | 58.92 | 39.37 | 19.19 | 67.72 | - | - | P | H |
| | | 13314 | 42.6 | -11.4 | 54 | 51.76 | 39.37 | 19.19 | 67.72 | - | - | A | H |
| | | 14491 | 53.09 | -20.91 | 74 | 58.85 | 41.94 | 20.04 | 67.74 | - | - | P | H |
| | | 14491 | 43.32 | -10.68 | 54 | 49.08 | 41.94 | 20.04 | 67.74 | - | - | A | H |
| | | 16740 | 51.15 | -17.05 | 68.2 | 57.66 | 40.12 | 21.68 | 68.31 | - | - | P | H |
| | | 18000 | 59.61 | -14.39 | 74 | 57.2 | 48.82 | 23.01 | 69.42 | - | - | P | H |
| | | 18000 | 50.32 | -3.68 | 54 | 47.91 | 48.82 | 23.01 | 69.42 | - | - | A | H |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| **802.11a** | | | | | | | | | | | | | |
| **CH 116** | | 11160 | 60.81 | -13.19 | 74 | 71.34 | 40.04 | 17.31 | 67.88 | 284 | 8 | P | V |
| **5580MHz** | | 11160 | 50.68 | -3.32 | 54 | 61.21 | 40.04 | 17.31 | 67.88 | 284 | 8 | A | V |
| | | 13369 | 49.77 | -24.23 | 74 | 58.67 | 39.56 | 19.23 | 67.69 | - | - | P | V |
| | | 13369 | 42.78 | -11.22 | 54 | 51.68 | 39.56 | 19.23 | 67.69 | - | - | A | V |
| | | 14491 | 52.05 | -21.95 | 74 | 57.8 | 41.95 | 20.04 | 67.74 | - | - | P | V |
| | | 14491 | 43.69 | -10.31 | 54 | 49.44 | 41.95 | 20.04 | 67.74 | - | - | A | V |
| | | 16740 | 51.94 | -16.26 | 68.2 | 58.31 | 40.26 | 21.68 | 68.31 | - | - | P | V |
| | | 18000 | 60.31 | -13.69 | 74 | 57.68 | 49.04 | 23.01 | 69.42 | - | - | P | V |
| | | 18000 | 50.65 | -3.35 | 54 | 48.02 | 49.04 | 23.01 | 69.42 | - | - | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11400 | 54.03 | -19.97 | 74 | 55.62 | 40.1 | 17.53 | 59.22 | 189 | 14 | P | H |
| | | 11400 | 47.72 | -6.28 | 54 | 49.31 | 40.1 | 17.53 | 59.22 | 189 | 14 | A | H |
| | | 13380 | 50.99 | -23.01 | 74 | 53.12 | 39.6 | 19.24 | 60.97 | - | - | P | H |
| | | 13380 | 41.43 | -12.57 | 54 | 43.56 | 39.6 | 19.24 | 60.97 | - | - | A | H |
| | | 14491 | 52.22 | -21.78 | 74 | 51.71 | 41.76 | 20.04 | 61.29 | - | - | P | H |
| | | 14491 | 40.57 | -13.43 | 54 | 40.06 | 41.76 | 20.04 | 61.29 | - | - | A | H |
| | | 17100 | 50.92 | -17.28 | 68.2 | 48.38 | 39.4 | 22.02 | 58.88 | - | - | P | H |
| | | 17945 | 60.98 | -13.02 | 74 | 47.3 | 47.04 | 22.95 | 56.31 | - | - | P | H |
| | | 17945 | 50.28 | -3.72 | 54 | 36.6 | 47.04 | 22.95 | 56.31 | - | - | A | H |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 802.11a | | | | | | | | | | | | | |
| CH 140 | | 11400 | 55.86 | -18.14 | 74 | 57.48 | 40.07 | 17.53 | 59.22 | 198 | 57 | P | V |
| 5700MHz | | 11400 | 49.18 | -4.82 | 54 | 50.8 | 40.07 | 17.53 | 59.22 | 198 | 57 | A | V |
| | | 13358 | 52.47 | -21.53 | 74 | 54.67 | 39.55 | 19.22 | 60.97 | - | - | P | V |
| | | 13358 | 41.02 | -12.98 | 54 | 43.22 | 39.55 | 19.22 | 60.97 | - | - | A | V |
| | | 14491 | 52.76 | -21.24 | 74 | 52.38 | 41.63 | 20.04 | 61.29 | - | - | P | V |
| | | 14491 | 40.5 | -13.5 | 54 | 40.12 | 41.63 | 20.04 | 61.29 | - | - | A | V |
| | | 17100 | 50.93 | -17.27 | 68.2 | 48.23 | 39.56 | 22.02 | 58.88 | - | - | P | V |
| | | 17956 | 60.17 | -13.83 | 74 | 46.5 | 46.99 | 22.96 | 56.28 | - | - | P | V |
| | | 17956 | 50.07 | -3.93 | 54 | 36.4 | 46.99 | 22.96 | 56.28 | - | - | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

**Remark**

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

## UNII-2C - 5470~5725MHz

## WIFI 802.11ax HE20 Full (Band Edge @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 5459.76 | 57.45 | -16.55 | 74 | 44.04 | 32.01 | 11.48 | 30.08 | 204 | 287 | P | H |
| | | 5468.24 | 63.66 | -4.54 | 68.2 | 50.25 | 32.01 | 11.49 | 30.09 | 204 | 287 | P | H |
| | | 5460 | 52.1 | -1.9 | 54 | 38.69 | 32.01 | 11.48 | 30.08 | 204 | 287 | A | H |
| | * | 5500 | 122.95 | - | - | 109.5 | 32.03 | 11.52 | 30.1 | 204 | 287 | P | H |
| 802.11ax | * | 5500 | 114.94 | - | - | 101.49 | 32.03 | 11.52 | 30.1 | 204 | 287 | A | H |
| HE20 Full | | 5457.68 | 58.74 | -15.26 | 74 | 45.38 | 31.96 | 11.48 | 30.08 | 251 | 60 | P | V |
| CH 100 | | 5461.84 | 58.02 | -10.18 | 68.2 | 44.65 | 31.96 | 11.49 | 30.08 | 251 | 60 | P | V |
| 5500MHz | | 5458.64 | 51.97 | -2.03 | 54 | 38.61 | 31.96 | 11.48 | 30.08 | 251 | 60 | A | V |
| | * | 5500 | 124.99 | - | - | 111.59 | 31.98 | 11.52 | 30.1 | 251 | 60 | P | V |
| | * | 5500 | 113.31 | - | - | 99.91 | 31.98 | 11.52 | 30.1 | 251 | 60 | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | 5434 | 53.09 | -20.91 | 74 | 39.78 | 31.93 | 11.46 | 30.08 | 198 | 288 | P | H |
| | | 5460.64 | 52.37 | -15.83 | 68.2 | 38.96 | 32.01 | 11.48 | 30.08 | 198 | 288 | P | H |
| | | 5458.24 | 45.03 | -8.97 | 54 | 31.62 | 32.01 | 11.48 | 30.08 | 198 | 288 | A | H |
| | * | 5580 | 127.76 | - | - | 114.26 | 31.99 | 11.62 | 30.11 | 198 | 288 | P | H |
| 802.11ax | * | 5580 | 116.16 | - | - | 102.66 | 31.99 | 11.62 | 30.11 | 198 | 288 | A | H |
| HE20 Full | | 5737.91 | 53.96 | -14.24 | 68.2 | 40.19 | 32.16 | 11.78 | 30.17 | 198 | 288 | P | H |
| CH 116 | | 5390.56 | 52.96 | -21.04 | 74 | 39.88 | 31.73 | 11.42 | 30.07 | 250 | 73 | P | V |
| 5580MHz | | 5464.96 | 53.71 | -14.49 | 68.2 | 40.35 | 31.96 | 11.49 | 30.09 | 250 | 73 | P | V |
| | | 5457.76 | 44.86 | -9.14 | 54 | 31.5 | 31.96 | 11.48 | 30.08 | 250 | 73 | A | V |
| | * | 5580 | 123.54 | - | - | 109.97 | 32.06 | 11.62 | 30.11 | 250 | 73 | P | V |
| | * | 5580 | 112.99 | - | - | 99.42 | 32.06 | 11.62 | 30.11 | 250 | 73 | A | V |
| | | 5748.305 | 53.96 | -14.24 | 68.2 | 40.12 | 32.23 | 11.78 | 30.17 | 250 | 73 | P | V |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | * | 5700 | 122.77 | - | - | 109.11 | 32.04 | 11.78 | 30.16 | 195 | 291 | P | H |
| | * | 5700 | 111.52 | - | - | 97.86 | 32.04 | 11.78 | 30.16 | 195 | 291 | A | H |
| | | 5725.96 | 64.67 | -3.53 | 68.2 | 50.94 | 32.12 | 11.78 | 30.17 | 195 | 291 | P | H |
| | | | | | | | | | | | | | |
| **802.11ax** | | | | | | | | | | | | | |
| **HE20 Full** | | | | | | | | | | | | | |
| **CH 140** | * | 5700 | 122.52 | - | - | 108.78 | 32.12 | 11.78 | 30.16 | 242 | 44 | P | V |
| **5700MHz** | * | 5700 | 111.91 | - | - | 98.17 | 32.12 | 11.78 | 30.16 | 242 | 44 | A | V |
| | | 5725.24 | 67.78 | -0.42 | 68.2 | 53.99 | 32.18 | 11.78 | 30.17 | 242 | 44 | P | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| | |
|---|---|
| **Remark** | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. |

## UNII-2C 5470~5725MHz

## WIFI 802.11ax HE20 (Harmonic @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11000 | 57.33 | -16.67 | 74 | 59.04 | 40.26 | 17.17 | 59.14 | 196 | 280 | P | H |
| | | 11000 | 48.94 | -5.06 | 54 | 50.65 | 40.26 | 17.17 | 59.14 | 196 | 280 | A | H |
| | | 13380 | 51.57 | -22.43 | 74 | 53.7 | 39.6 | 19.24 | 60.97 | - | - | P | H |
| | | 13380 | 41.08 | -12.92 | 54 | 43.21 | 39.6 | 19.24 | 60.97 | - | - | A | H |
| | | 14491 | 53.01 | -20.99 | 74 | 52.5 | 41.76 | 20.04 | 61.29 | - | - | P | H |
| | | 14491 | 40.43 | -13.57 | 54 | 39.92 | 41.76 | 20.04 | 61.29 | - | - | A | H |
| | | 16500 | 49.55 | -18.65 | 68.2 | 49.65 | 38.33 | 21.47 | 59.9 | - | - | P | H |
| | | 18000 | 61.08 | -12.92 | 74 | 45.8 | 48.43 | 23.01 | 56.16 | - | - | P | H |
| | | 18000 | 50.88 | -3.12 | 54 | 35.6 | 48.43 | 23.01 | 56.16 | - | - | A | H |
| | | | | | | | | | | | | | |
| 802.11ax | | | | | | | | | | | | | |
| HE20 Full | | | | | | | | | | | | | |
| CH 100 | | 11000 | 58.72 | -15.28 | 74 | 60.41 | 40.28 | 17.17 | 59.14 | 100 | 1 | P | V |
| 5500MHz | | 11000 | 49.01 | -4.99 | 54 | 50.7 | 40.28 | 17.17 | 59.14 | 100 | 1 | A | V |
| | | 13380 | 52.77 | -21.23 | 74 | 54.9 | 39.6 | 19.24 | 60.97 | - | - | P | V |
| | | 13380 | 40.44 | -13.56 | 54 | 42.57 | 39.6 | 19.24 | 60.97 | - | - | A | V |
| | | 14491 | 53.37 | -20.63 | 74 | 52.99 | 41.63 | 20.04 | 61.29 | - | - | P | V |
| | | 14491 | 40.57 | -13.43 | 54 | 40.19 | 41.63 | 20.04 | 61.29 | - | - | A | V |
| | | 16500 | 49.77 | -18.43 | 68.2 | 49.73 | 38.47 | 21.47 | 59.9 | - | - | P | V |
| | | 17978 | 59.77 | -14.23 | 74 | 45.5 | 47.5 | 22.99 | 56.22 | - | - | P | V |
| | | 17978 | 49.97 | -4.03 | 54 | 35.7 | 47.5 | 22.99 | 56.22 | - | - | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level ( dBµV ) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11160 | 53.97 | -20.03 | 74 | 55.9 | 39.91 | 17.31 | 59.15 | 213 | 290 | P | H |
| | | 11160 | 46.77 | -7.23 | 54 | 48.7 | 39.91 | 17.31 | 59.15 | 213 | 290 | A | H |
| | | 13347 | 51.51 | -22.49 | 74 | 53.78 | 39.49 | 19.21 | 60.97 | - | - | P | H |
| | | 13347 | 40.86 | -13.14 | 54 | 43.13 | 39.49 | 19.21 | 60.97 | - | - | A | H |
| | | 14491 | 52.42 | -21.58 | 74 | 51.91 | 41.76 | 20.04 | 61.29 | - | - | P | H |
| | | 14491 | 40.37 | -13.63 | 54 | 39.86 | 41.76 | 20.04 | 61.29 | - | - | A | H |
| | | 16740 | 51.22 | -16.98 | 68.2 | 50.1 | 39.22 | 21.68 | 59.78 | - | - | P | H |
| | | 17956 | 60.78 | -13.22 | 74 | 46.8 | 47.3 | 22.96 | 56.28 | - | - | P | H |
| | | 17956 | 50.18 | -3.82 | 54 | 36.2 | 47.3 | 22.96 | 56.28 | - | - | A | H |
| | | | | | | | | | | | | | |
| **802.11ax** | | | | | | | | | | | | | |
| **HE20 Full** | | | | | | | | | | | | | |
| **CH 116** | | 11160 | 54.6 | -19.4 | 74 | 56.54 | 39.9 | 17.31 | 59.15 | 239 | 34 | P | V |
| **5580MHz** | | 11160 | 46.31 | -7.69 | 54 | 48.25 | 39.9 | 17.31 | 59.15 | 239 | 34 | A | V |
| | | 13369 | 52.04 | -21.96 | 74 | 54.21 | 39.57 | 19.23 | 60.97 | - | - | P | V |
| | | 13369 | 41.59 | -12.41 | 54 | 43.76 | 39.57 | 19.23 | 60.97 | - | - | A | V |
| | | 14491 | 52.94 | -21.06 | 74 | 52.56 | 41.63 | 20.04 | 61.29 | - | - | P | V |
| | | 14491 | 40.24 | -13.76 | 54 | 39.86 | 41.63 | 20.04 | 61.29 | - | - | A | V |
| | | 16740 | 51.13 | -17.07 | 68.2 | 50.01 | 39.22 | 21.68 | 59.78 | - | - | P | V |
| | | 17989 | 60.86 | -13.14 | 74 | 46.29 | 47.76 | 23 | 56.19 | - | - | P | V |
| | | 17989 | 50.66 | -3.34 | 54 | 36.09 | 47.76 | 23 | 56.19 | - | - | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level ( dBµV ) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11400 | 53.21 | -20.79 | 74 | 54.8 | 40.1 | 17.53 | 59.22 | 196 | 300 | P | H |
| | | 11400 | 44.91 | -9.09 | 54 | 46.5 | 40.1 | 17.53 | 59.22 | 196 | 300 | A | H |
| | | 13358 | 52.35 | -21.65 | 74 | 54.57 | 39.53 | 19.22 | 60.97 | - | - | P | H |
| | | 13358 | 40.84 | -13.16 | 54 | 43.06 | 39.53 | 19.22 | 60.97 | - | - | A | H |
| | | 14491 | 51.96 | -22.04 | 74 | 51.45 | 41.76 | 20.04 | 61.29 | - | - | P | H |
| | | 14491 | 40.7 | -13.3 | 54 | 40.19 | 41.76 | 20.04 | 61.29 | - | - | A | H |
| | | 17100 | 50.51 | -17.69 | 68.2 | 47.97 | 39.4 | 22.02 | 58.88 | - | - | P | H |
| | | 17967 | 60.51 | -13.49 | 74 | 46.2 | 47.59 | 22.97 | 56.25 | - | - | P | H |
| | | 17967 | 49.71 | -4.29 | 54 | 35.4 | 47.59 | 22.97 | 56.25 | - | - | A | H |
| | | | | | | | | | | | | | |
| **802.11ax** | | | | | | | | | | | | | |
| **HE20 Full** | | | | | | | | | | | | | |
| **CH 140** | | 11400 | 54.01 | -19.99 | 74 | 55.63 | 40.07 | 17.53 | 59.22 | 203 | 57 | P | V |
| **5700MHz** | | 11400 | 45.59 | -8.41 | 54 | 47.21 | 40.07 | 17.53 | 59.22 | 203 | 57 | A | V |
| | | 13380 | 52.79 | -21.21 | 74 | 54.92 | 39.6 | 19.24 | 60.97 | - | - | P | V |
| | | 13380 | 40.74 | -13.26 | 54 | 42.87 | 39.6 | 19.24 | 60.97 | - | - | A | V |
| | | 14491 | 53.44 | -20.56 | 74 | 53.06 | 41.63 | 20.04 | 61.29 | - | - | P | V |
| | | 14491 | 41.27 | -12.73 | 54 | 40.89 | 41.63 | 20.04 | 61.29 | - | - | A | V |
| | | 17100 | 51.11 | -17.09 | 68.2 | 48.41 | 39.56 | 22.02 | 58.88 | - | - | P | V |
| | | 18000 | 60.46 | -13.54 | 74 | 45.6 | 48.01 | 23.01 | 56.16 | - | - | P | V |
| | | 18000 | 50.06 | -3.94 | 54 | 35.2 | 48.01 | 23.01 | 56.16 | - | - | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

**Remark**

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

## UNII-2C 5470~5725MHz

## WIFI 802.11ax HE40 Full (Band Edge @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level ( dBµV ) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 5458.48 | 60.09 | -13.91 | 74 | 46.68 | 32.01 | 11.48 | 30.08 | 203 | 287 | P | H |
| | | 5465.2 | 64.4 | -3.8 | 68.2 | 50.99 | 32.01 | 11.49 | 30.09 | 203 | 287 | P | H |
| | | 5458 | 53.48 | -0.52 | 54 | 40.07 | 32.01 | 11.48 | 30.08 | 203 | 287 | A | H |
| | * | 5510 | 120.66 | - | - | 107.21 | 32.02 | 11.53 | 30.1 | 203 | 287 | P | H |
| 802.11ax | * | 5510 | 112.54 | - | - | 99.09 | 32.02 | 11.53 | 30.1 | 203 | 287 | A | H |
| HE40 Full | | 5734.13 | 53.12 | -15.08 | 68.2 | 39.36 | 32.15 | 11.78 | 30.17 | 203 | 287 | P | H |
| CH 102 | | 5447.44 | 57.55 | -16.45 | 74 | 44.21 | 31.95 | 11.47 | 30.08 | 400 | 49 | P | V |
| 5510MHz | | 5464.96 | 65.19 | -3.01 | 68.2 | 51.83 | 31.96 | 11.49 | 30.09 | 400 | 49 | P | V |
| | | 5445.28 | 50.89 | -3.11 | 54 | 37.56 | 31.94 | 11.47 | 30.08 | 400 | 49 | A | V |
| | * | 5510 | 118.63 | - | - | 105.2 | 32 | 11.53 | 30.1 | 400 | 49 | P | V |
| | * | 5510 | 110.66 | - | - | 97.23 | 32 | 11.53 | 30.1 | 400 | 49 | A | V |
| | | 5730.35 | 54.68 | -13.52 | 68.2 | 40.88 | 32.19 | 11.78 | 30.17 | 400 | 49 | P | V |
| | | 5450.32 | 54.35 | -19.65 | 74 | 40.95 | 32 | 11.48 | 30.08 | 202 | 287 | P | H |
| | | 5464.24 | 55.93 | -12.27 | 68.2 | 42.52 | 32.01 | 11.49 | 30.09 | 202 | 287 | P | H |
| | | 5457.76 | 46.7 | -7.3 | 54 | 33.29 | 32.01 | 11.48 | 30.08 | 202 | 287 | A | H |
| | * | 5550 | 121.49 | - | - | 108.01 | 31.98 | 11.59 | 30.09 | 202 | 287 | P | H |
| 802.11ax | * | 5550 | 114.01 | - | - | 100.53 | 31.98 | 11.59 | 30.09 | 202 | 287 | A | H |
| HE40 Full | | 5731.925 | 57.84 | -10.36 | 68.2 | 44.09 | 32.14 | 11.78 | 30.17 | 202 | 287 | P | H |
| CH 110 | | 5452.48 | 53.96 | -20.04 | 74 | 40.6 | 31.96 | 11.48 | 30.08 | 299 | 24 | P | V |
| 5550MHz | | 5468.32 | 55.58 | -12.62 | 68.2 | 42.22 | 31.96 | 11.49 | 30.09 | 299 | 24 | P | V |
| | | 5449.12 | 45.31 | -8.69 | 54 | 31.97 | 31.95 | 11.47 | 30.08 | 299 | 24 | A | V |
| | * | 5550 | 118.87 | - | - | 105.3 | 32.07 | 11.59 | 30.09 | 299 | 24 | P | V |
| | * | 5550 | 111.75 | - | - | 98.18 | 32.07 | 11.59 | 30.09 | 299 | 24 | A | V |
| | | 5753.345 | 53.61 | -14.59 | 68.2 | 39.76 | 32.24 | 11.78 | 30.17 | 299 | 24 | P | V |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 5458.85 | 53.58 | -20.42 | 74 | 40.17 | 32.01 | 11.48 | 30.08 | 363 | 290 | P | H |
| | | 5466.2 | 52.8 | -15.4 | 68.2 | 39.39 | 32.01 | 11.49 | 30.09 | 363 | 290 | P | H |
| | | 5458.5 | 44.74 | -9.26 | 54 | 31.33 | 32.01 | 11.48 | 30.08 | 363 | 290 | A | H |
| | * | 5670 | 120.72 | - | - | 107.13 | 31.98 | 11.74 | 30.13 | 363 | 290 | P | H |
| **802.11ax** | * | 5670 | 112.17 | - | - | 98.58 | 31.98 | 11.74 | 30.13 | 363 | 290 | A | H |
| **HE40 Full** | | 5725.1 | 66.99 | -1.21 | 68.2 | 53.26 | 32.12 | 11.78 | 30.17 | 363 | 290 | P | H |
| **CH 134** | | 5388.15 | 53.13 | -20.87 | 74 | 40.06 | 31.72 | 11.42 | 30.07 | 243 | 44 | P | V |
| **5670MHz** | | 5466.2 | 52.49 | -15.71 | 68.2 | 39.13 | 31.96 | 11.49 | 30.09 | 243 | 44 | P | V |
| | | 5459.9 | 44.81 | -9.19 | 54 | 31.45 | 31.96 | 11.48 | 30.08 | 243 | 44 | A | V |
| | * | 5670 | 119.89 | - | - | 106.22 | 32.06 | 11.74 | 30.13 | 243 | 44 | P | V |
| | * | 5670 | 111.81 | - | - | 98.14 | 32.06 | 11.74 | 30.13 | 243 | 44 | A | V |
| | | 5735.075 | 64.81 | -3.39 | 68.2 | 51 | 32.2 | 11.78 | 30.17 | 243 | 44 | P | V |
| **Remark** | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## UNII-2C 5470~5725MHz

## WIFI 802.11ax HE40 Full (Harmonic @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level ( dBµV ) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11020 | 54.06 | -19.94 | 74 | 55.78 | 40.24 | 17.19 | 59.15 | 193 | 288 | P | H |
| | | 11020 | 47.26 | -6.74 | 54 | 48.98 | 40.24 | 17.19 | 59.15 | 193 | 288 | A | H |
| | | 13380 | 51.64 | -22.36 | 74 | 53.77 | 39.6 | 19.24 | 60.97 | - | - | P | H |
| | | 13380 | 40.93 | -13.07 | 54 | 43.06 | 39.6 | 19.24 | 60.97 | - | - | A | H |
| | | 14491 | 50.93 | -23.07 | 74 | 50.42 | 41.76 | 20.04 | 61.29 | - | - | P | H |
| | | 14491 | 41.28 | -12.72 | 54 | 40.77 | 41.76 | 20.04 | 61.29 | - | - | A | H |
| | | 16530 | 50.08 | -18.12 | 68.2 | 49.99 | 38.41 | 21.5 | 59.82 | - | - | P | H |
| | | 17989 | 60.86 | -13.14 | 74 | 45.9 | 48.15 | 23 | 56.19 | - | - | P | H |
| | | 17989 | 50.56 | -3.44 | 54 | 35.6 | 48.15 | 23 | 56.19 | - | - | A | H |
| | | | | | | | | | | | | | |
| 802.11ax | | | | | | | | | | | | | |
| HE40 Full | | | | | | | | | | | | | |
| CH 102 | | 11020 | 55.43 | -18.57 | 74 | 57.14 | 40.25 | 17.19 | 59.15 | 210 | 13 | P | V |
| 5510MHz | | 11020 | 47.57 | -6.43 | 54 | 49.28 | 40.25 | 17.19 | 59.15 | 210 | 13 | A | V |
| | | 13281 | 52.19 | -21.81 | 74 | 54.76 | 39.23 | 19.16 | 60.96 | - | - | P | V |
| | | 13281 | 40.56 | -13.44 | 54 | 43.13 | 39.23 | 19.16 | 60.96 | - | - | A | V |
| | | 14491 | 52.05 | -21.95 | 74 | 51.67 | 41.63 | 20.04 | 61.29 | - | - | P | V |
| | | 14491 | 41.11 | -12.89 | 54 | 40.73 | 41.63 | 20.04 | 61.29 | - | - | A | V |
| | | 16530 | 49.94 | -18.26 | 68.2 | 49.66 | 38.6 | 21.5 | 59.82 | - | - | P | V |
| | | 17945 | 59.69 | -14.31 | 74 | 46.3 | 46.75 | 22.95 | 56.31 | - | - | P | V |
| | | 17945 | 49.79 | -4.21 | 54 | 36.4 | 46.75 | 22.95 | 56.31 | - | - | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level ( dBµV ) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11100 | 58.49 | -15.51 | 74 | 60.32 | 40.04 | 17.26 | 59.13 | 100 | 29 | P | H |
| | | 11100 | 49.17 | -4.83 | 54 | 51 | 40.04 | 17.26 | 59.13 | 100 | 29 | A | H |
| | | 13369 | 52.23 | -21.77 | 74 | 54.41 | 39.56 | 19.23 | 60.97 | - | - | P | H |
| | | 13369 | 40.89 | -13.11 | 54 | 43.07 | 39.56 | 19.23 | 60.97 | - | - | A | H |
| | | 14491 | 53.03 | -20.97 | 74 | 52.52 | 41.76 | 20.04 | 61.29 | - | - | P | H |
| | | 14491 | 41.4 | -12.6 | 54 | 40.89 | 41.76 | 20.04 | 61.29 | - | - | A | H |
| | | 16650 | 51.47 | -16.73 | 68.2 | 50.77 | 38.91 | 21.6 | 59.81 | - | - | P | H |
| | | 17945 | 60.98 | -13.02 | 74 | 47.3 | 47.04 | 22.95 | 56.31 | - | - | P | H |
| | | 17945 | 50.8 | -3.2 | 54 | 37.12 | 47.04 | 22.95 | 56.31 | - | - | A | H |
| | | | | | | | | | | | | | |
| **802.11ax** | | | | | | | | | | | | | |
| **HE40 Full** | | | | | | | | | | | | | |
| **CH 110** | | 11100 | 59.54 | -14.46 | 74 | 61.38 | 40.03 | 17.26 | 59.13 | 400 | 353 | P | V |
| **5550MHz** | | 11100 | 48.74 | -5.26 | 54 | 50.58 | 40.03 | 17.26 | 59.13 | 400 | 353 | A | V |
| | | 13380 | 52.64 | -21.36 | 74 | 54.77 | 39.6 | 19.24 | 60.97 | - | - | P | V |
| | | 13380 | 40.92 | -13.08 | 54 | 43.05 | 39.6 | 19.24 | 60.97 | - | - | A | V |
| | | 14491 | 52.58 | -21.42 | 74 | 52.2 | 41.63 | 20.04 | 61.29 | - | - | P | V |
| | | 14491 | 41.93 | -12.07 | 54 | 41.55 | 41.63 | 20.04 | 61.29 | - | - | A | V |
| | | 16650 | 51.22 | -16.98 | 68.2 | 50.48 | 38.95 | 21.6 | 59.81 | - | - | P | V |
| | | 17965 | 60.34 | -13.66 | 74 | 46.43 | 47.2 | 22.97 | 56.26 | - | - | P | V |
| | | 17965 | 50.07 | -3.93 | 54 | 36.16 | 47.2 | 22.97 | 56.26 | - | - | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level ( dBµV ) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11340 | 60.09 | -13.91 | 74 | 61.82 | 39.9 | 17.48 | 59.11 | 100 | 314 | P | H |
| | | 11340 | 50.22 | -3.78 | 54 | 51.95 | 39.9 | 17.48 | 59.11 | 100 | 314 | A | H |
| | | 13281 | 51.27 | -22.73 | 74 | 53.83 | 39.24 | 19.16 | 60.96 | - | - | P | H |
| | | 13281 | 40.11 | -13.89 | 54 | 42.67 | 39.24 | 19.16 | 60.96 | - | - | A | H |
| | | 14491 | 51.56 | -22.44 | 74 | 51.05 | 41.76 | 20.04 | 61.29 | - | - | P | H |
| | | 14491 | 42.28 | -11.72 | 54 | 41.77 | 41.76 | 20.04 | 61.29 | - | - | A | H |
| | | 17010 | 50.26 | -17.94 | 68.2 | 48.09 | 39.44 | 21.92 | 59.19 | - | - | P | H |
| | | 17934 | 60.01 | -13.99 | 74 | 46.61 | 46.79 | 22.94 | 56.33 | - | - | P | H |
| | | 17934 | 50.28 | -3.72 | 54 | 36.88 | 46.79 | 22.94 | 56.33 | - | - | A | H |
| | | | | | | | | | | | | | |
| **802.11ax** | | | | | | | | | | | | | |
| **HE40 Full** | | | | | | | | | | | | | |
| **CH 134** | | 11340 | 59.4 | -14.6 | 74 | 61.09 | 39.94 | 17.48 | 59.11 | 301 | 305 | P | V |
| **5670MHz** | | 11340 | 49.42 | -4.58 | 54 | 51.11 | 39.94 | 17.48 | 59.11 | 301 | 305 | A | V |
| | | 13369 | 50.94 | -23.06 | 74 | 53.11 | 39.57 | 19.23 | 60.97 | - | - | P | V |
| | | 13369 | 40.76 | -13.24 | 54 | 42.93 | 39.57 | 19.23 | 60.97 | - | - | A | V |
| | | 14491 | 51.16 | -22.84 | 74 | 50.78 | 41.63 | 20.04 | 61.29 | - | - | P | V |
| | | 14491 | 41.9 | -12.1 | 54 | 41.52 | 41.63 | 20.04 | 61.29 | - | - | A | V |
| | | 17010 | 51.08 | -17.12 | 68.2 | 48.76 | 39.59 | 21.92 | 59.19 | - | - | P | V |
| | | 17934 | 60.14 | -13.86 | 74 | 47 | 46.53 | 22.94 | 56.33 | - | - | P | V |
| | | 17934 | 50.48 | -3.52 | 54 | 37.34 | 46.53 | 22.94 | 56.33 | - | - | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

**Remark**

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

## UNII-2C 5470~5725MHz

## WIFI 802.11ax HE80 Full (Band Edge @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 5458.96 | 60.54 | -13.46 | 74 | 47.13 | 32.01 | 11.48 | 30.08 | 201 | 288 | P | H |
| | | 5464.96 | 61.54 | -6.66 | 68.2 | 48.13 | 32.01 | 11.49 | 30.09 | 201 | 288 | P | H |
| | | 5457.52 | 52.75 | -1.25 | 54 | 39.34 | 32.01 | 11.48 | 30.08 | 201 | 288 | A | H |
| | * | 5530 | 115.86 | - | - | 102.39 | 32 | 11.56 | 30.09 | 201 | 288 | P | H |
| 802.11ax | * | 5530 | 107.82 | - | - | 94.35 | 32 | 11.56 | 30.09 | 201 | 288 | A | H |
| HE80 Full | | 5744.21 | 53.45 | -14.75 | 68.2 | 39.66 | 32.18 | 11.78 | 30.17 | 201 | 288 | P | H |
| CH 106 | | 5447.68 | 57.39 | -16.61 | 74 | 44.05 | 31.95 | 11.47 | 30.08 | 299 | 24 | P | V |
| 5530MHz | | 5468.56 | 61.86 | -6.34 | 68.2 | 48.5 | 31.96 | 11.49 | 30.09 | 299 | 24 | P | V |
| | | 5448.88 | 51 | -3 | 54 | 37.66 | 31.95 | 11.47 | 30.08 | 299 | 24 | A | V |
| | * | 5530 | 112.8 | - | - | 99.3 | 32.03 | 11.56 | 30.09 | 299 | 24 | P | V |
| | * | 5530 | 105.6 | - | - | 92.1 | 32.03 | 11.56 | 30.09 | 299 | 24 | A | V |
| | | 5738.225 | 53.56 | -14.64 | 68.2 | 39.74 | 32.21 | 11.78 | 30.17 | 299 | 24 | P | V |
| | | 5457.28 | 56.5 | -17.5 | 74 | 43.09 | 32.01 | 11.48 | 30.08 | 204 | 289 | P | H |
| | | 5464.72 | 59.03 | -9.17 | 68.2 | 45.62 | 32.01 | 11.49 | 30.09 | 204 | 289 | P | H |
| | | 5458 | 49.22 | -4.78 | 54 | 35.81 | 32.01 | 11.48 | 30.08 | 204 | 289 | A | H |
| | * | 5610 | 117.64 | - | - | 104.11 | 31.99 | 11.66 | 30.12 | 204 | 289 | P | H |
| 802.11ax | * | 5610 | 110.25 | - | - | 96.72 | 31.99 | 11.66 | 30.12 | 204 | 289 | A | H |
| HE80 Full | | 5736.335 | 63.29 | -4.91 | 68.2 | 49.53 | 32.15 | 11.78 | 30.17 | 204 | 289 | P | H |
| CH 122 | | 5457.04 | 54.98 | -19.02 | 74 | 41.62 | 31.96 | 11.48 | 30.08 | 238 | 41 | P | V |
| 5610MHz | | 5462.56 | 56.12 | -12.08 | 68.2 | 42.76 | 31.96 | 11.49 | 30.09 | 238 | 41 | P | V |
| | | 5459.68 | 48.69 | -5.31 | 54 | 35.33 | 31.96 | 11.48 | 30.08 | 238 | 41 | A | V |
| | * | 5610 | 115.49 | - | - | 101.91 | 32.04 | 11.66 | 30.12 | 238 | 41 | P | V |
| | * | 5610 | 108.42 | - | - | 94.84 | 32.04 | 11.66 | 30.12 | 238 | 41 | A | V |
| | | 5738.225 | 64.94 | -3.26 | 68.2 | 51.12 | 32.21 | 11.78 | 30.17 | 238 | 41 | P | V |
| **Remark** | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## UNII-2C 5470~5725MHz

## WIFI 802.11ax HE80 Full (Harmonic @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11060 | 54.97 | -19.03 | 74 | 56.7 | 40.19 | 17.23 | 59.15 | 100 | 28 | P | H |
| | | 11060 | 45.38 | -8.62 | 54 | 47.11 | 40.19 | 17.23 | 59.15 | 100 | 28 | A | H |
| | | 13358 | 51.09 | -22.91 | 74 | 53.31 | 39.53 | 19.22 | 60.97 | - | - | P | H |
| | | 13358 | 41.23 | -12.77 | 54 | 43.45 | 39.53 | 19.22 | 60.97 | - | - | A | H |
| | | 14491 | 51.97 | -22.03 | 74 | 51.46 | 41.76 | 20.04 | 61.29 | - | - | P | H |
| | | 14491 | 42.28 | -11.72 | 54 | 41.77 | 41.76 | 20.04 | 61.29 | - | - | A | H |
| | | 16592 | 50.79 | -17.41 | 68.2 | 50.42 | 38.64 | 21.55 | 59.82 | - | - | P | H |
| | | 17945 | 60.81 | -13.19 | 74 | 47.13 | 47.04 | 22.95 | 56.31 | - | - | P | H |
| | | 17945 | 50.82 | -3.18 | 54 | 37.14 | 47.04 | 22.95 | 56.31 | - | - | A | H |
| | | | | | | | | | | | | | |
| 802.11ax | | | | | | | | | | | | | |
| HE80 Full | | | | | | | | | | | | | |
| CH 106 | | 11059 | 52.99 | -21.01 | 74 | 54.73 | 40.18 | 17.23 | 59.15 | 400 | 354 | P | V |
| 5530MHz | | 11059 | 44.38 | -9.62 | 54 | 46.12 | 40.18 | 17.23 | 59.15 | 400 | 354 | A | V |
| | | 13380 | 51.57 | -22.43 | 74 | 53.7 | 39.6 | 19.24 | 60.97 | - | - | P | V |
| | | 13380 | 41.29 | -12.71 | 54 | 43.42 | 39.6 | 19.24 | 60.97 | - | - | A | V |
| | | 14491 | 52.14 | -21.86 | 74 | 51.76 | 41.63 | 20.04 | 61.29 | - | - | P | V |
| | | 14491 | 40.94 | -13.06 | 54 | 40.56 | 41.63 | 20.04 | 61.29 | - | - | A | V |
| | | 16592 | 49.45 | -18.75 | 68.2 | 48.93 | 38.79 | 21.55 | 59.82 | - | - | P | V |
| | | 17945 | 60.87 | -13.13 | 74 | 47.48 | 46.75 | 22.95 | 56.31 | - | - | P | V |
| | | 17945 | 50.62 | -3.38 | 54 | 37.23 | 46.75 | 22.95 | 56.31 | - | - | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level ( dBµV ) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11220 | 56.12 | -17.88 | 74 | 58.05 | 39.84 | 17.37 | 59.14 | 107 | 68 | P | H |
| | | 11220 | 46.73 | -7.27 | 54 | 48.66 | 39.84 | 17.37 | 59.14 | 107 | 68 | A | H |
| | | 13391 | 52.56 | -21.44 | 74 | 54.64 | 39.64 | 19.25 | 60.97 | - | - | P | H |
| | | 13391 | 41.14 | -12.86 | 54 | 43.22 | 39.64 | 19.25 | 60.97 | - | - | A | H |
| | | 14491 | 53.27 | -20.73 | 74 | 52.76 | 41.76 | 20.04 | 61.29 | - | - | P | H |
| | | 14491 | 40.99 | -13.01 | 54 | 40.48 | 41.76 | 20.04 | 61.29 | - | - | A | H |
| | | 16830 | 50.87 | -17.33 | 68.2 | 49.4 | 39.4 | 21.75 | 59.68 | - | - | P | H |
| | | 17945 | 60.36 | -13.64 | 74 | 46.68 | 47.04 | 22.95 | 56.31 | - | - | P | H |
| | | 17945 | 50.4 | -3.6 | 54 | 36.72 | 47.04 | 22.95 | 56.31 | - | - | A | H |
| | | | | | | | | | | | | | |
| **802.11ax** | | | | | | | | | | | | | |
| **HE80 Full** | | | | | | | | | | | | | |
| **CH 122** | | 11220 | 57.47 | -16.53 | 74 | 59.34 | 39.9 | 17.37 | 59.14 | 204 | 330 | P | V |
| **5610MHz** | | 11220 | 47.98 | -6.02 | 54 | 49.85 | 39.9 | 17.37 | 59.14 | 204 | 330 | A | V |
| | | 13391 | 51.14 | -22.86 | 74 | 53.23 | 39.63 | 19.25 | 60.97 | - | - | P | V |
| | | 13391 | 41.09 | -12.91 | 54 | 43.18 | 39.63 | 19.25 | 60.97 | - | - | A | V |
| | | 14491 | 51.84 | -22.16 | 74 | 51.46 | 41.63 | 20.04 | 61.29 | - | - | P | V |
| | | 14491 | 41.98 | -12.02 | 54 | 41.6 | 41.63 | 20.04 | 61.29 | - | - | A | V |
| | | 16830 | 51.35 | -16.85 | 68.2 | 49.78 | 39.5 | 21.75 | 59.68 | - | - | P | V |
| | | 17945 | 60.65 | -13.35 | 74 | 47.26 | 46.75 | 22.95 | 56.31 | - | - | P | V |
| | | 17945 | 50.5 | -3.5 | 54 | 37.11 | 46.75 | 22.95 | 56.31 | - | - | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

**Remark**

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

## UNII-2C 5470~5725MHz

## WIFI 802.11ax HE160 Full (Band Edge @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11ax HE160 Full CH 114 5570MHz | | 5458 | 61.39 | -12.61 | 74 | 47.98 | 32.01 | 11.48 | 30.08 | 255 | 90 | P | H |
| | | 5459.92 | 57.35 | -16.65 | 74 | 43.94 | 32.01 | 11.48 | 30.08 | 255 | 90 | P | H |
| | | 5457.04 | 53.01 | -0.99 | 54 | 39.6 | 32.01 | 11.48 | 30.08 | 255 | 90 | A | H |
| | * | 5570 | 113.6 | - | - | 100.11 | 31.98 | 11.61 | 30.1 | 255 | 90 | P | H |
| | * | 5570 | 104.13 | - | - | 90.64 | 31.98 | 11.61 | 30.1 | 255 | 90 | A | H |
| | | 5735.705 | 63.32 | -4.88 | 68.2 | 49.56 | 32.15 | 11.78 | 30.17 | 255 | 90 | P | H |
| | | 5445.28 | 58.93 | -15.07 | 74 | 45.6 | 31.94 | 11.47 | 30.08 | 275 | 306 | P | V |
| | | 5465.68 | 58.22 | -9.98 | 68.2 | 44.86 | 31.96 | 11.49 | 30.09 | 275 | 306 | P | V |
| | | 5446 | 51.15 | -2.85 | 54 | 37.82 | 31.94 | 11.47 | 30.08 | 275 | 306 | A | V |
| | * | 5570 | 113.5 | - | - | 99.93 | 32.06 | 11.61 | 30.1 | 275 | 306 | P | V |
| | * | 5570 | 104.67 | - | - | 91.1 | 32.06 | 11.61 | 30.1 | 275 | 306 | A | V |
| | | 5725.31 | 63.32 | -4.88 | 68.2 | 49.53 | 32.18 | 11.78 | 30.17 | 275 | 306 | P | V |
| Remark | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## UNII-2C 5470~5725MHz

## WIFI 802.11ax HE160 Full (Harmonic @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBμV/m ) | Over Limit ( dB ) | Limit Line ( dBμV/m ) | Read Level (dBμV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11140 | 52.51 | -21.49 | 74 | 54.42 | 39.95 | 17.29 | 59.15 | 323 | 271 | P | H |
| | | 11140 | 43.22 | -10.78 | 54 | 45.13 | 39.95 | 17.29 | 59.15 | 323 | 271 | A | H |
| | | 13369 | 52.79 | -21.21 | 74 | 54.97 | 39.56 | 19.23 | 60.97 | - | - | P | H |
| | | 13369 | 40.95 | -13.05 | 54 | 43.13 | 39.56 | 19.23 | 60.97 | - | - | A | H |
| | | 14491 | 53.15 | -20.85 | 74 | 52.64 | 41.76 | 20.04 | 61.29 | - | - | P | H |
| | | 14491 | 42.27 | -11.73 | 54 | 41.76 | 41.76 | 20.04 | 61.29 | - | - | A | H |
| | | 16710 | 52.53 | -15.67 | 68.2 | 51.55 | 39.12 | 21.65 | 59.79 | - | - | P | H |
| | | 17989 | 60.42 | -13.58 | 74 | 45.46 | 48.15 | 23 | 56.19 | - | - | P | H |
| | | 17989 | 50.62 | -3.38 | 54 | 35.66 | 48.15 | 23 | 56.19 | - | - | A | H |
| | | | | | | | | | | | | | |
| **802.11ax** | | | | | | | | | | | | | |
| **HE160 Full** | | | | | | | | | | | | | |
| **CH 114** | | 11140 | 52.88 | -21.12 | 74 | 54.81 | 39.93 | 17.29 | 59.15 | 198 | 286 | P | V |
| **5570MHz** | | 11140 | 44.47 | -9.53 | 54 | 46.4 | 39.93 | 17.29 | 59.15 | 198 | 286 | A | V |
| | | 13391 | 52.18 | -21.82 | 74 | 54.27 | 39.63 | 19.25 | 60.97 | - | - | P | V |
| | | 13391 | 41.22 | -12.78 | 54 | 43.31 | 39.63 | 19.25 | 60.97 | - | - | A | V |
| | | 14491 | 51.85 | -22.15 | 74 | 51.47 | 41.63 | 20.04 | 61.29 | - | - | P | V |
| | | 14491 | 42.23 | -11.77 | 54 | 41.85 | 41.63 | 20.04 | 61.29 | - | - | A | V |
| | | 16710 | 52.15 | -16.05 | 68.2 | 51.16 | 39.13 | 21.65 | 59.79 | - | - | P | V |
| | | 17978 | 60.77 | -13.23 | 74 | 46.5 | 47.5 | 22.99 | 56.22 | - | - | P | V |
| | | 17978 | 50.04 | -3.96 | 54 | 35.77 | 47.5 | 22.99 | 56.22 | - | - | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

**Remark**

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

## UNII-2C - Straddle Channel

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

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Path | Preamp | Ant | Table | Peak | Pol. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| | | ( MHz ) | ( dBµV/m ) | ( dB ) | ( dBµV/m ) | (dBµV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11a CH 144 5720MHz | | 5432.68 | 53.42 | -20.58 | 74 | 40.11 | 31.93 | 11.46 | 30.08 | 291 | 298 | P | H |
| | | 5459.98 | 52.61 | -21.39 | 74 | 39.2 | 32.01 | 11.48 | 30.08 | 291 | 298 | P | H |
| | | 5456.86 | 44.98 | -9.02 | 54 | 31.57 | 32.01 | 11.48 | 30.08 | 291 | 298 | A | H |
| | * | 5720 | 123.69 | - | - | 109.97 | 32.1 | 11.78 | 30.16 | 291 | 298 | P | H |
| | * | 5720 | 115.09 | - | - | 101.37 | 32.1 | 11.78 | 30.16 | 291 | 298 | A | H |
| | | 5867 | 53.85 | -14.35 | 68.2 | 39.69 | 32.46 | 11.9 | 30.2 | 291 | 298 | P | H |
| | | 5451.79 | 53.93 | -20.07 | 74 | 40.57 | 31.96 | 11.48 | 30.08 | 285 | 40 | P | V |
| | | 5463.1 | 51.82 | -16.38 | 68.2 | 38.46 | 31.96 | 11.49 | 30.09 | 285 | 40 | P | V |
| | | 5459.98 | 44.94 | -9.06 | 54 | 31.58 | 31.96 | 11.48 | 30.08 | 285 | 40 | A | V |
| | * | 5720 | 121.82 | - | - | 108.04 | 32.16 | 11.78 | 30.16 | 285 | 40 | P | V |
| | * | 5720 | 113.75 | - | - | 99.97 | 32.16 | 11.78 | 30.16 | 285 | 40 | A | V |
| | | 5946.25 | 54.92 | -13.28 | 68.2 | 40.5 | 32.65 | 12.02 | 30.25 | 285 | 40 | P | V |
| Remark | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## UNII-2C - Straddle Channel

## WIFI 802.11a (Harmonic @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11a CH 144 5720MHz | | 11440 | 56.24 | -17.76 | 74 | 57.72 | 40.15 | 17.57 | 59.2 | 100 | 78 | P | H |
| | | 11440 | 48.82 | -5.18 | 54 | 50.3 | 40.15 | 17.57 | 59.2 | 100 | 78 | A | H |
| | | 13281 | 51.59 | -22.41 | 74 | 54.15 | 39.24 | 19.16 | 60.96 | - | - | P | H |
| | | 13281 | 40.66 | -13.34 | 54 | 43.22 | 39.24 | 19.16 | 60.96 | - | - | A | H |
| | | 14491 | 52.23 | -21.77 | 74 | 51.72 | 41.76 | 20.04 | 61.29 | - | - | P | H |
| | | 14491 | 40.81 | -13.19 | 54 | 40.3 | 41.76 | 20.04 | 61.29 | - | - | A | H |
| | | 17160 | 50.8 | -17.4 | 68.2 | 47.77 | 39.54 | 22.08 | 58.59 | - | - | P | H |
| | | 17956 | 60.18 | -13.82 | 74 | 46.2 | 47.3 | 22.96 | 56.28 | - | - | P | H |
| | | 17956 | 49.48 | -4.52 | 54 | 35.5 | 47.3 | 22.96 | 56.28 | - | - | A | H |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | 11440 | 58.56 | -15.44 | 74 | 60.01 | 40.18 | 17.57 | 59.2 | 308 | 16 | P | V |
| | | 11440 | 51.75 | -2.25 | 54 | 53.2 | 40.18 | 17.57 | 59.2 | 308 | 16 | A | V |
| | | 13391 | 52.38 | -21.62 | 74 | 54.47 | 39.63 | 19.25 | 60.97 | - | - | P | V |
| | | 13391 | 41.62 | -12.38 | 54 | 43.71 | 39.63 | 19.25 | 60.97 | - | - | A | V |
| | | 14491 | 51.43 | -22.57 | 74 | 51.05 | 41.63 | 20.04 | 61.29 | - | - | P | V |
| | | 14491 | 41.21 | -12.79 | 54 | 40.83 | 41.63 | 20.04 | 61.29 | - | - | A | V |
| | | 17160 | 51.28 | -16.92 | 68.2 | 48.13 | 39.66 | 22.08 | 58.59 | - | - | P | V |
| | | 17934 | 59.93 | -14.07 | 74 | 46.79 | 46.53 | 22.94 | 56.33 | - | - | P | V |
| | | 17934 | 49.23 | -4.77 | 54 | 36.09 | 46.53 | 22.94 | 56.33 | - | - | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

**Remark**

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

## UNII-2C - Straddle Channel

## WIFI 802.11ax HE20 Full (Band Edge @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11ax HE20 Full CH 144 5720MHz | | 5354.29 | 53.14 | -20.86 | 74 | 40.25 | 31.56 | 11.4 | 30.07 | 266 | 299 | P | H |
| | | 5467 | 52.42 | -15.78 | 68.2 | 39.01 | 32.01 | 11.49 | 30.09 | 266 | 299 | P | H |
| | | 5456.47 | 44.7 | -9.3 | 54 | 31.29 | 32.01 | 11.48 | 30.08 | 266 | 299 | A | H |
| | * | 5720 | 124.43 | - | - | 110.71 | 32.1 | 11.78 | 30.16 | 266 | 299 | P | H |
| | * | 5720 | 114.68 | - | - | 100.96 | 32.1 | 11.78 | 30.16 | 266 | 299 | A | H |
| | | 5916 | 53.94 | -14.26 | 68.2 | 39.69 | 32.51 | 11.98 | 30.24 | 266 | 299 | P | H |
| | | 5359.75 | 54.33 | -19.67 | 74 | 41.41 | 31.58 | 11.41 | 30.07 | 284 | 42 | P | V |
| | | 5467.78 | 52.45 | -15.75 | 68.2 | 39.09 | 31.96 | 11.49 | 30.09 | 284 | 42 | P | V |
| | | 5459.98 | 44.47 | -9.53 | 54 | 31.11 | 31.96 | 11.48 | 30.08 | 284 | 42 | A | V |
| | * | 5720 | 124.26 | - | - | 110.48 | 32.16 | 11.78 | 30.16 | 284 | 42 | P | V |
| | * | 5720 | 112.99 | - | - | 99.21 | 32.16 | 11.78 | 30.16 | 284 | 42 | A | V |
| | | 5858.75 | 54.59 | -13.61 | 68.2 | 40.41 | 32.48 | 11.89 | 30.19 | 284 | 42 | P | V |
| Remark | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## UNII-2C - Straddle Channel

## WIFI 802.11ax HE20 Full (Harmonic @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11440 | 57.64 | -16.36 | 74 | 59.12 | 40.15 | 17.57 | 59.2 | 123 | 293 | P | H |
| | | 11440 | 49.77 | -4.23 | 54 | 51.25 | 40.15 | 17.57 | 59.2 | 123 | 293 | A | H |
| | | 13391 | 52.49 | -21.51 | 74 | 54.57 | 39.64 | 19.25 | 60.97 | - | - | P | H |
| | | 13391 | 40.51 | -13.49 | 54 | 42.59 | 39.64 | 19.25 | 60.97 | - | - | A | H |
| | | 14491 | 53.24 | -20.76 | 74 | 52.73 | 41.76 | 20.04 | 61.29 | - | - | P | H |
| | | 14491 | 42.87 | -11.13 | 54 | 42.36 | 41.76 | 20.04 | 61.29 | - | - | A | H |
| | | 17160 | 51.62 | -16.58 | 68.2 | 48.59 | 39.54 | 22.08 | 58.59 | - | - | P | H |
| | | 17978 | 60.23 | -13.77 | 74 | 45.59 | 47.87 | 22.99 | 56.22 | - | - | P | H |
| | | 17978 | 50.03 | -3.97 | 54 | 35.39 | 47.87 | 22.99 | 56.22 | - | - | A | H |
| | | | | | | | | | | | | | |
| **802.11ax** | | | | | | | | | | | | | |
| **HE20 Full** | | | | | | | | | | | | | |
| **CH 144** | | 11440 | 56.08 | -17.92 | 74 | 57.53 | 40.18 | 17.57 | 59.2 | 273 | 57 | P | V |
| **5720MHz** | | 11440 | 48.2 | -5.8 | 54 | 49.65 | 40.18 | 17.57 | 59.2 | 273 | 57 | A | V |
| | | 13391 | 52.56 | -21.44 | 74 | 54.65 | 39.63 | 19.25 | 60.97 | - | - | P | V |
| | | 13391 | 41.42 | -12.58 | 54 | 43.51 | 39.63 | 19.25 | 60.97 | - | - | A | V |
| | | 14491 | 53.28 | -20.72 | 74 | 52.9 | 41.63 | 20.04 | 61.29 | - | - | P | V |
| | | 14491 | 42.33 | -11.67 | 54 | 41.95 | 41.63 | 20.04 | 61.29 | - | - | A | V |
| | | 17160 | 50.96 | -17.24 | 68.2 | 47.81 | 39.66 | 22.08 | 58.59 | - | - | P | V |
| | | 17967 | 60.17 | -13.83 | 74 | 46.2 | 47.25 | 22.97 | 56.25 | - | - | P | V |
| | | 17967 | 49.57 | -4.43 | 54 | 35.6 | 47.25 | 22.97 | 56.25 | - | - | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

**Remark**

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

## UNII-2C - Straddle Channel

## WIFI 802.11ax HE40 Full (Band Edge @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level ( dBµV ) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11ax HE40 Full CH 142 5710MHz | | 5417.86 | 53.64 | -20.36 | 74 | 40.4 | 31.86 | 11.45 | 30.07 | 191 | 74 | P | H |
| | | 5466.61 | 53.58 | -14.62 | 68.2 | 40.17 | 32.01 | 11.49 | 30.09 | 191 | 74 | P | H |
| | | 5458.03 | 44.57 | -9.43 | 54 | 31.16 | 32.01 | 11.48 | 30.08 | 191 | 74 | A | H |
| | * | 5710 | 118.89 | - | - | 105.2 | 32.07 | 11.78 | 30.16 | 191 | 74 | P | H |
| | * | 5710 | 111.36 | - | - | 97.67 | 32.07 | 11.78 | 30.16 | 191 | 74 | A | H |
| | | 5865.75 | 54.8 | -13.4 | 68.2 | 40.64 | 32.46 | 11.9 | 30.2 | 191 | 74 | P | H |
| | | 5440.09 | 53.4 | -20.6 | 74 | 40.09 | 31.92 | 11.47 | 30.08 | 246 | 43 | P | V |
| | | 5462.71 | 54.57 | -13.63 | 68.2 | 41.21 | 31.96 | 11.49 | 30.09 | 246 | 43 | P | V |
| | | 5455.3 | 44.63 | -9.37 | 54 | 31.27 | 31.96 | 11.48 | 30.08 | 246 | 43 | A | V |
| | * | 5710 | 119.75 | - | - | 105.99 | 32.14 | 11.78 | 30.16 | 246 | 43 | P | V |
| | * | 5710 | 111.53 | - | - | 97.77 | 32.14 | 11.78 | 30.16 | 246 | 43 | A | V |
| | | 5857 | 54.69 | -13.51 | 68.2 | 40.53 | 32.47 | 11.88 | 30.19 | 246 | 43 | P | V |
| Remark | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## UNII-2C - Straddle Channel

## WIFI 802.11ax HE40 Full (Harmonic @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level ( dBµV ) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11420 | 61.12 | -12.88 | 74 | 62.66 | 40.12 | 17.55 | 59.21 | 100 | 344 | P | H |
| | | 11420 | 50.2 | -3.8 | 54 | 51.74 | 40.12 | 17.55 | 59.21 | 100 | 344 | A | H |
| | | 13358 | 51.65 | -22.35 | 74 | 53.87 | 39.53 | 19.22 | 60.97 | - | - | P | H |
| | | 13358 | 40.95 | -13.05 | 54 | 43.17 | 39.53 | 19.22 | 60.97 | - | - | A | H |
| | | 14491 | 50.98 | -23.02 | 74 | 50.47 | 41.76 | 20.04 | 61.29 | - | - | P | H |
| | | 14491 | 42.07 | -11.93 | 54 | 41.56 | 41.76 | 20.04 | 61.29 | - | - | A | H |
| | | 17131 | 51.63 | -16.57 | 68.2 | 48.85 | 39.47 | 22.05 | 58.74 | - | - | P | H |
| | | 17956 | 60.17 | -13.83 | 74 | 46.19 | 47.3 | 22.96 | 56.28 | - | - | P | H |
| | | 17956 | 50.3 | -3.7 | 54 | 36.32 | 47.3 | 22.96 | 56.28 | - | - | A | H |
| | | | | | | | | | | | | | |
| **802.11ax** | | | | | | | | | | | | | |
| **HE40 Full** | | | | | | | | | | | | | |
| **CH 142** | | 11420 | 61.01 | -12.99 | 74 | 62.54 | 40.13 | 17.55 | 59.21 | 377 | 50 | P | V |
| **5710MHz** | | 11420 | 51.11 | -2.89 | 54 | 52.64 | 40.13 | 17.55 | 59.21 | 377 | 50 | A | V |
| | | 13281 | 51.38 | -22.62 | 74 | 53.95 | 39.23 | 19.16 | 60.96 | - | - | P | V |
| | | 13281 | 40.66 | -13.34 | 54 | 43.23 | 39.23 | 19.16 | 60.96 | - | - | A | V |
| | | 14491 | 52.14 | -21.86 | 74 | 51.76 | 41.63 | 20.04 | 61.29 | - | - | P | V |
| | | 14491 | 41.69 | -12.31 | 54 | 41.31 | 41.63 | 20.04 | 61.29 | - | - | A | V |
| | | 17131 | 51.21 | -16.99 | 68.2 | 48.29 | 39.61 | 22.05 | 58.74 | - | - | P | V |
| | | 17956 | 60.67 | -13.33 | 74 | 47 | 46.99 | 22.96 | 56.28 | - | - | P | V |
| | | 17956 | 50.75 | -3.25 | 54 | 37.08 | 46.99 | 22.96 | 56.28 | - | - | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

**Remark**

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

## UNII-2C Straddle Channel

## WIFI 802.11ax HE80 Full (Band Edge @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11ax HE80 Full CH 138 5690MHz | | 5376.91 | 53.81 | -20.19 | 74 | 40.79 | 31.67 | 11.42 | 30.07 | 377 | 290 | P | H |
| | | 5462.32 | 52.52 | -15.68 | 68.2 | 39.1 | 32.01 | 11.49 | 30.08 | 377 | 290 | P | H |
| | | 5459.98 | 44.92 | -9.08 | 54 | 31.51 | 32.01 | 11.48 | 30.08 | 377 | 290 | A | H |
| | * | 5690 | 115.94 | - | - | 102.3 | 32.02 | 11.77 | 30.15 | 377 | 290 | P | H |
| | * | 5690 | 108.54 | - | - | 94.9 | 32.02 | 11.77 | 30.15 | 377 | 290 | A | H |
| | | 5881.75 | 55.21 | -12.99 | 68.2 | 41.02 | 32.47 | 11.93 | 30.21 | 377 | 290 | P | H |
| | | 5453.74 | 53.4 | -20.6 | 74 | 40.04 | 31.96 | 11.48 | 30.08 | 237 | 43 | P | V |
| | | 5469.34 | 52.25 | -15.95 | 68.2 | 38.88 | 31.97 | 11.49 | 30.09 | 237 | 43 | P | V |
| | | 5456.86 | 44.97 | -9.03 | 54 | 31.61 | 31.96 | 11.48 | 30.08 | 237 | 43 | A | V |
| | * | 5690 | 116.85 | - | - | 103.13 | 32.1 | 11.77 | 30.15 | 237 | 43 | P | V |
| | * | 5690 | 108.86 | - | - | 95.14 | 32.1 | 11.77 | 30.15 | 237 | 43 | A | V |
| | | 5858.25 | 57.47 | -10.73 | 68.2 | 43.3 | 32.48 | 11.88 | 30.19 | 237 | 43 | P | V |
| Remark | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## UNII-2C - Straddle Channel

## WIFI 802.11ax HE80 Full (Harmonic @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 11380 | 54.44 | -19.56 | 74 | 56.08 | 40.03 | 17.51 | 59.18 | 116 | 24 | P | H |
| | | 11380 | 46.31 | -7.69 | 54 | 47.95 | 40.03 | 17.51 | 59.18 | 116 | 24 | A | H |
| | | 13347 | 50.88 | -23.12 | 74 | 53.15 | 39.49 | 19.21 | 60.97 | - | - | P | H |
| | | 13347 | 40.98 | -13.02 | 54 | 43.25 | 39.49 | 19.21 | 60.97 | - | - | A | H |
| | | 14491 | 52.92 | -21.08 | 74 | 52.41 | 41.76 | 20.04 | 61.29 | - | - | P | H |
| | | 14491 | 40.65 | -13.35 | 54 | 40.14 | 41.76 | 20.04 | 61.29 | - | - | A | H |
| | | 17070 | 50.01 | -18.19 | 68.2 | 47.54 | 39.43 | 21.99 | 58.95 | - | - | P | H |
| | | 17934 | 60.06 | -13.94 | 74 | 46.66 | 46.79 | 22.94 | 56.33 | - | - | P | H |
| | | 17934 | 50.87 | -3.13 | 54 | 37.47 | 46.79 | 22.94 | 56.33 | - | - | A | H |
| | | | | | | | | | | | | | |
| **802.11ax** | | | | | | | | | | | | | |
| **HE80 Full** | | | | | | | | | | | | | |
| **CH 138** | | 11380 | 52.85 | -21.15 | 74 | 54.5 | 40.02 | 17.51 | 59.18 | 216 | 336 | P | V |
| **5690MHz** | | 11380 | 44.94 | -9.06 | 54 | 46.59 | 40.02 | 17.51 | 59.18 | 216 | 336 | A | V |
| | | 13358 | 51.6 | -22.4 | 74 | 53.8 | 39.55 | 19.22 | 60.97 | - | - | P | V |
| | | 13358 | 41.14 | -12.86 | 54 | 43.34 | 39.55 | 19.22 | 60.97 | - | - | A | V |
| | | 14491 | 53.29 | -20.71 | 74 | 52.91 | 41.63 | 20.04 | 61.29 | - | - | P | V |
| | | 14491 | 41.17 | -12.83 | 54 | 40.79 | 41.63 | 20.04 | 61.29 | - | - | A | V |
| | | 17070 | 49.7 | -18.5 | 68.2 | 47.08 | 39.58 | 21.99 | 58.95 | - | - | P | V |
| | | 17934 | 59.63 | -14.37 | 74 | 46.49 | 46.53 | 22.94 | 56.33 | - | - | P | V |
| | | 17934 | 50.61 | -3.39 | 54 | 37.47 | 46.53 | 22.94 | 56.33 | - | - | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

**Remark**

1. No other spurious found.
2. All results are PASS against Peak and Average limit line.
3. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.
4. The emission level close to 18GHz is checked that the average emission level is noise floor only.

## Emission above 18GHz

## WIFI 802.11ax HE20 Full (SHF @ 1m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Path | Preamp | Ant | Table | Peak | Pol. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| | | ( MHz ) | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | (dBμV) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11ax HE20 Full Ch140 5700MHz SHF | | 36480 | 46.59 | -27.41 | 74 | 36.92 | 42.54 | 21.91 | 54.78 | - | - | P | H |
| | | 39824 | 52.73 | -21.27 | 74 | 36.9 | 44.84 | 24.47 | 53.48 | - | - | P | H |
| | | 39824 | 44.78 | -9.22 | 54 | 28.95 | 44.84 | 24.47 | 53.48 | - | - | A | H |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | 36480 | 46.8 | -27.2 | 74 | 37.08 | 42.59 | 21.91 | 54.78 | - | - | P | V |
| | | 39824 | 52.55 | -21.45 | 74 | 36.92 | 44.64 | 24.47 | 53.48 | - | - | P | V |
| | | 39824 | 46.05 | -7.95 | 54 | 30.42 | 44.64 | 24.47 | 53.48 | - | - | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

**Remark**

1. No other spurious found.
2. All results are PASS against limit line.
3. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.

## Emission below 1GHz

## WIFI 802.11ax HE20 Full (LF @ 3m)

| WIFI | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level (dBµV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11ax HE20 Full Ch140 5700MHz LF | | 62.01 | 31.05 | -8.95 | 40 | 50.4 | 11.7 | 1.38 | 32.43 | - | - | P | H |
| | | 148.34 | 26.86 | -16.64 | 43.5 | 40.05 | 17.2 | 2.02 | 32.41 | - | - | P | H |
| | | 424.79 | 39.62 | -6.38 | 46 | 45.95 | 22.6 | 3.58 | 32.51 | - | - | P | H |
| | | 748.77 | 33.39 | -12.61 | 46 | 33.13 | 27.98 | 4.66 | 32.38 | - | - | P | H |
| | | 874.87 | 39.31 | -6.69 | 46 | 37.05 | 29.1 | 4.94 | 31.78 | - | - | P | H |
| | | 928.22 | 39.5 | -6.5 | 46 | 36.01 | 29.73 | 5.15 | 31.39 | - | - | P | H |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | 39.7 | 33.54 | -6.46 | 40 | 45.02 | 19.88 | 1.08 | 32.44 | - | - | P | V |
| | | 62.01 | 33.33 | -6.67 | 40 | 52.68 | 11.7 | 1.38 | 32.43 | - | - | P | V |
| | | 105.66 | 31.31 | -12.19 | 43.5 | 45.42 | 16.57 | 1.73 | 32.41 | - | - | P | V |
| | | 427.7 | 37.16 | -8.84 | 46 | 43.44 | 22.65 | 3.58 | 32.51 | - | - | P | V |
| | | 749.74 | 33.45 | -12.55 | 46 | 33.18 | 27.99 | 4.66 | 32.38 | - | - | P | V |
| | | 874.87 | 36.33 | -9.67 | 46 | 34.07 | 29.1 | 4.94 | 31.78 | - | - | P | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

**Remark**

1. No other spurious found.
2. All results are PASS against limit line.
3. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or noise floor only.

**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 | Limit Line | Read Level | Antenna Factor | Path Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | ( MHz ) | ( dBµV/m ) | ( dB ) | ( dBµV/m ) | ( dBµV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11a CH 100 5500MHz | | 5467.92 | 62.31 | -5.89 | 68.2 | 48.9 | 32.01 | 11.49 | 30.09 | 207 | 288 | P | H |
| | | 5460 | 51.26 | -2.74 | 54 | 37.85 | 32.01 | 11.48 | 30.08 | 207 | 288 | A | H |

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

**For Peak Limit @ 5467.92MHz:**

1. Level(dBµV/m)

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

= 32.01 (dB/m) + 11.49 (dB) + 48.9 (dBµV) – 30.09 (dB)

= 62.31 (dBµV/m)

2. Over Limit(dB)

= Level(dBµV/m) – Limit Line(dBµV/m)

= 62.31 (dBµV/m) – 68.2 (dBµV/m)

= -5.89 (dB)

**For Average Limit @ 5460MHz:**

1. Level(dBµV/m)

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

= 32.01 (dB/m) + 11.48 (dB) + 37.85 (dBµV) –30.08 (dB)

= 51.26 (dBµV/m)

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

= 51.26 (dBµV/m) – 54(dBµV/m)

= -2.74 (dB)

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

# Appendix D. Radiated Spurious Emission Plot

| | | | |
|---|---|---|---|
| **Test Engineer :** | Michael Bui, Daniel Lee | **Temperature :** | 20~23°C |
| | | **Relative Humidity :** | 40~43% |

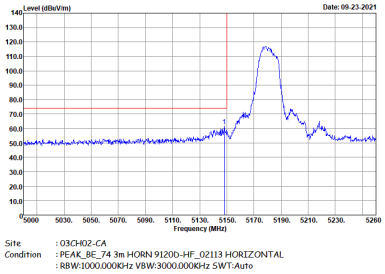
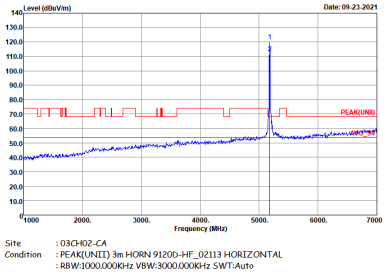
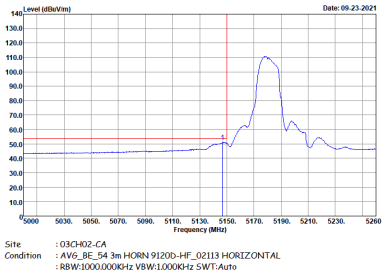
## Note symbol

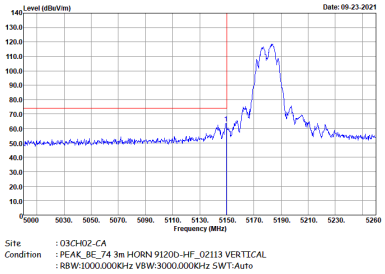
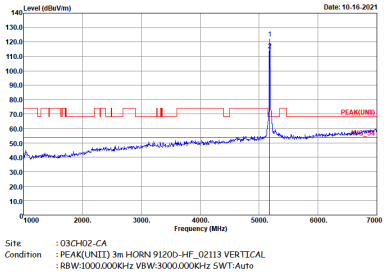
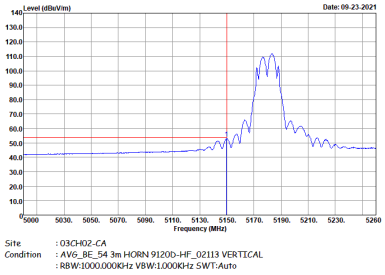
| | |
|---|---|
| -L | **Low channel location** |
| -R | **High channel location** |

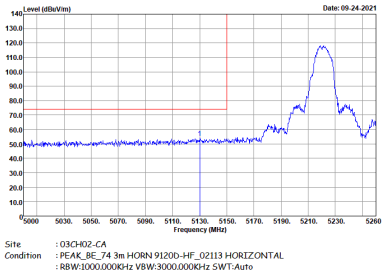
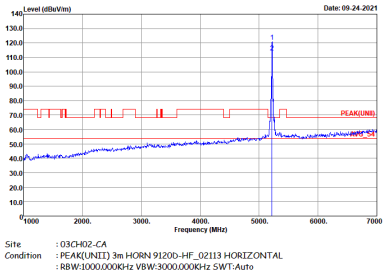
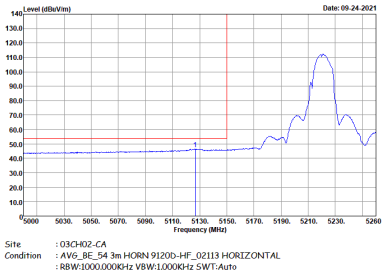
**<Radio 1>**

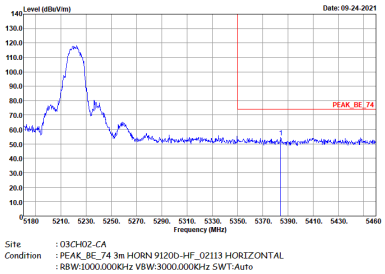
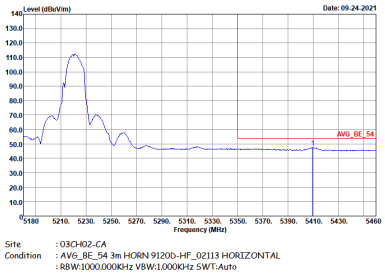
## UNII-1 - 5150~5250MHz

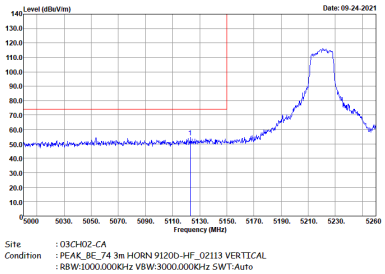
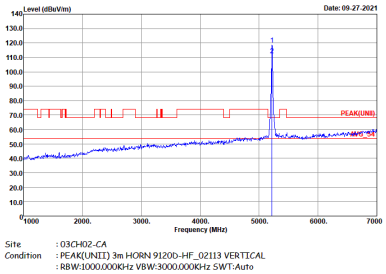
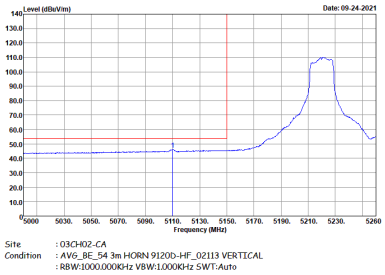
## WIFI 802.11a (Band Edge @ 3m)

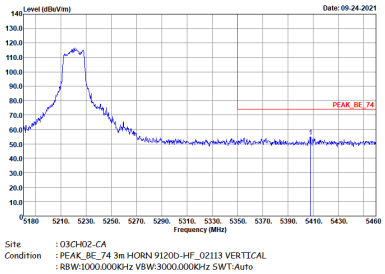
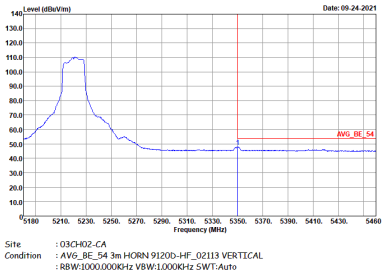
| WIFI | UNII-1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| | 802.11a CH36 5180MHz | |
| | Horizontal | Fundamental |
| Peak |  |  |
| Avg. |  | Left blank |

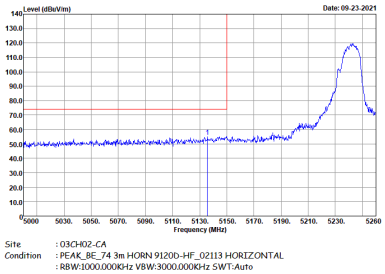
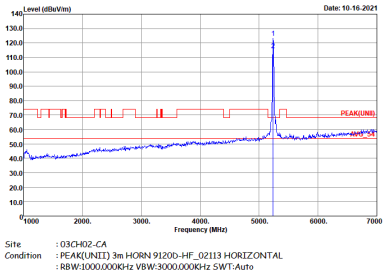
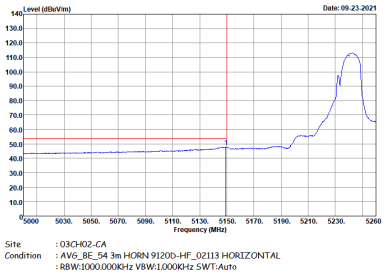
| WIFI | UNII-1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| | 802.11a CH36 5180MHz | |
| | Vertical | Fundamental |
| Peak |  |  |
| Avg. |  | Left blank |

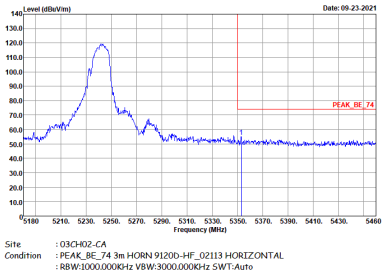
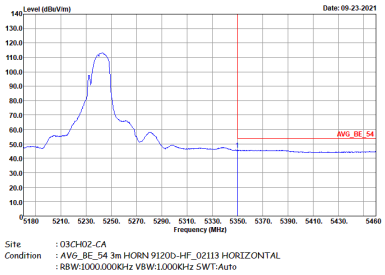
| WIFI | UNII-1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| | 802.11a CH44 5220MHz - L | |
| | Horizontal | Fundamental |
| Peak |  |  |
| Avg. |  | Left blank |

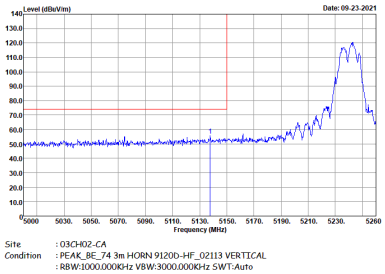
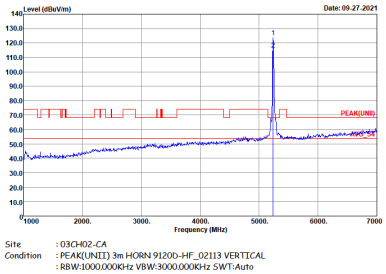
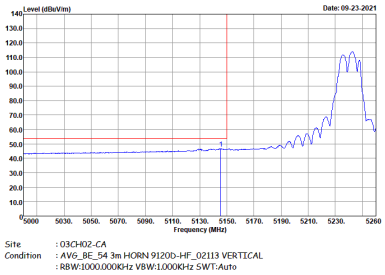
| WIFI | UNII-1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| | 802.11a CH44 5220MHz - R | |
| | Horizontal | Fundamental |
| Peak |  | Left blank |
| Avg. |  | Left blank |

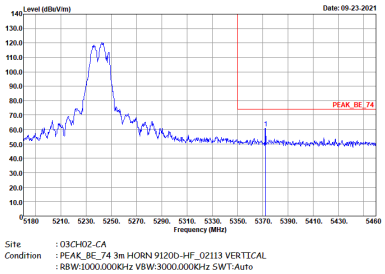
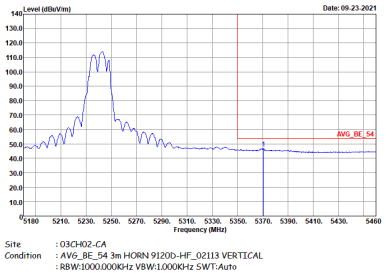
| WIFI | UNII-1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| | 802.11a CH44 5220MHz - L | |
| | Vertical | Fundamental |
| Peak |  |  |
| Avg. |  | Left blank |

| WIFI | UNII-1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| | 802.11a CH44 5220MHz - R | |
| | Vertical | Fundamental |
| Peak |  | Left blank |
| Avg. |  | Left blank |

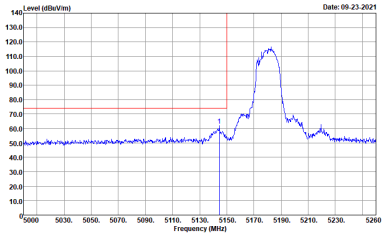
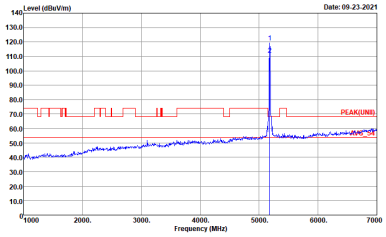
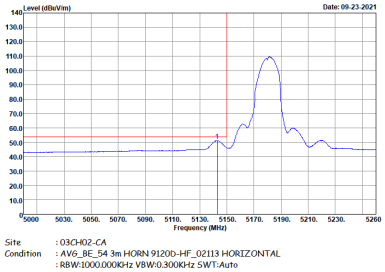
| WIFI | UNII-1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| | 802.11a CH48 5240MHz - L | |
| | Horizontal | Fundamental |
| Peak |  |  |
| Avg. |  | Left blank |

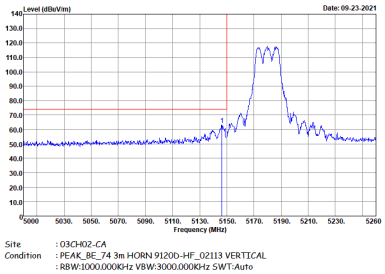
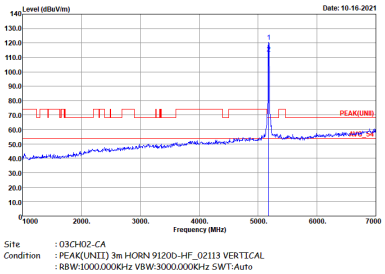
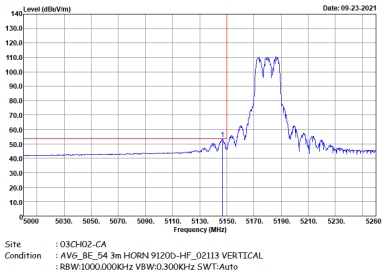
| WIFI | UNII-1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| | 802.11a CH48 5240MHz - R | |
| | Horizontal | Fundamental |
| Peak |  | Left blank |
| Avg. |  | Left blank |

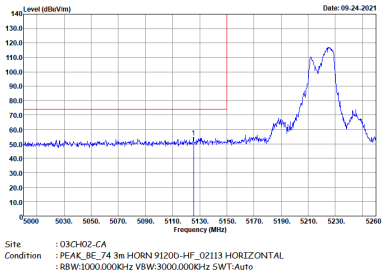
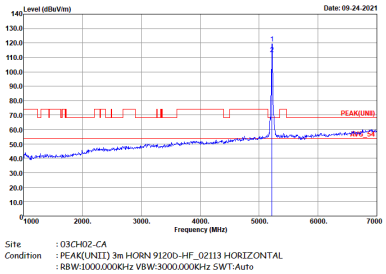
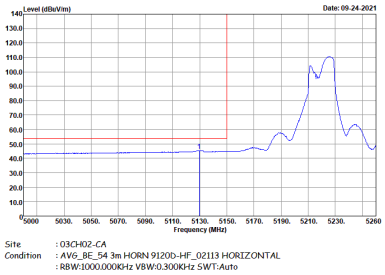
| WIFI | UNII-1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| | 802.11a CH48 5240MHz - L | |
| | Vertical | Fundamental |
| Peak |  |  |
| Avg. |  | Left blank |

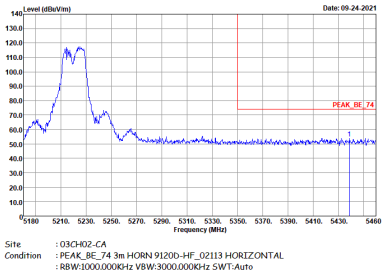
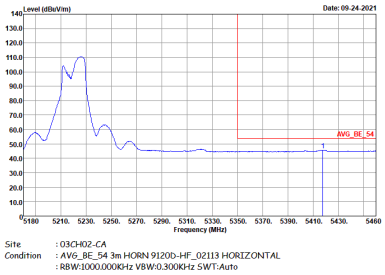
| WIFI | UNII-1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| | 802.11a CH48 5240MHz - R | |
| | Vertical | Fundamental |
| Peak |  | Left blank |
| Avg. |  | Left blank |

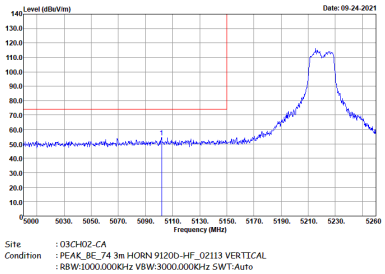
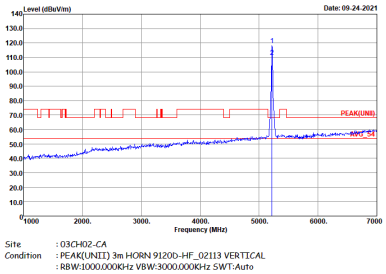
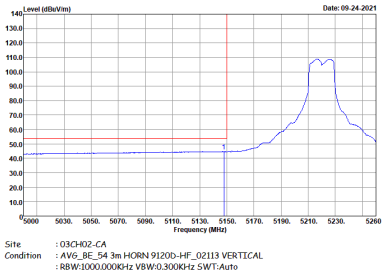
## UNII-1 5150~5250MHz
## WIFI 802.11ax HE20 Full (Band Edge @ 3m)

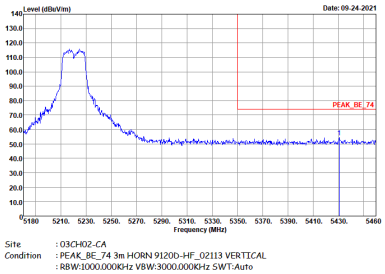
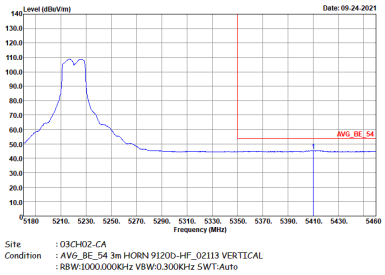
| WIFI | UNII-1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| | 802.11ax HE20 Full CH36 5180MHz | |
| | Horizontal | Fundamental |
| Peak |  |  |
| Avg. |  | Left blank |

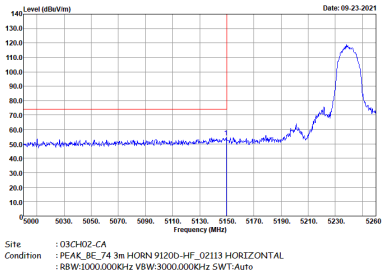
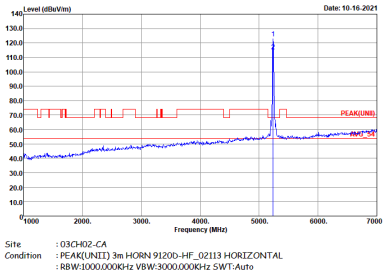
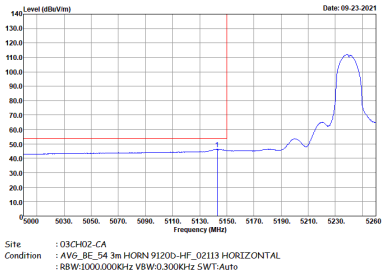
| WIFI | UNII-1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| | 802.11ax HE20 Full CH36 5180MHz | |
| | Vertical | Fundamental |
| Peak |  |  |
| Avg. |  | Left blank |

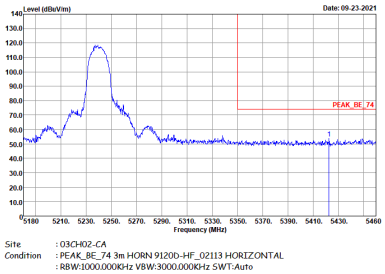
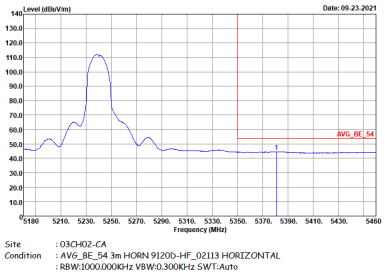
| WIFI | UNII-1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| | 802.11ax HE20 Full CH44 5220MHz - L | |
| | Horizontal | Fundamental |
| Peak |  |  |
| Avg. |  | Left blank |

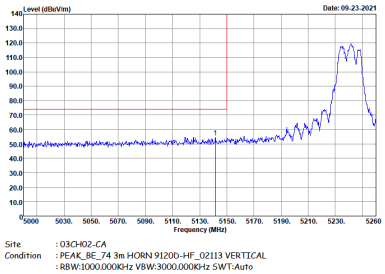
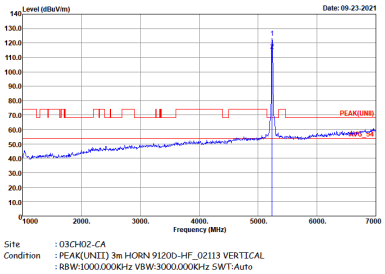
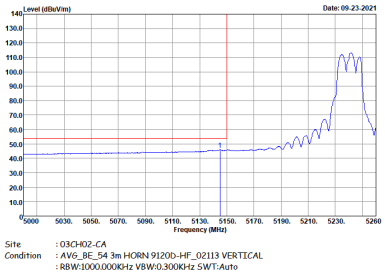
| WIFI | UNII-1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| | 802.11ax HE20 Full CH44 5220MHz - R | |
| | Horizontal | Fundamental |
| Peak |  | Left blank |
| Avg. |  | Left blank |

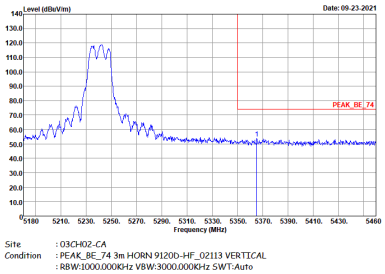
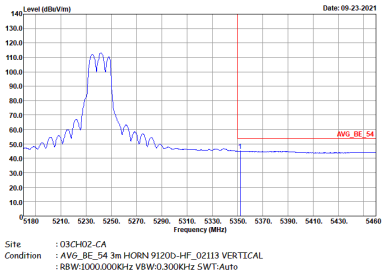
| WIFI | UNII-1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| | 802.11ax HE20 Full CH44 5220MHz - L | |
| | Vertical | Fundamental |
| Peak |  |  |
| Avg. |  | Left blank |

| WIFI | UNII-1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| | 802.11ax HE20 Full CH44 5220MHz - R | |
| | Vertical | Fundamental |
| Peak |  | Left blank |
| Avg. |  | Left blank |

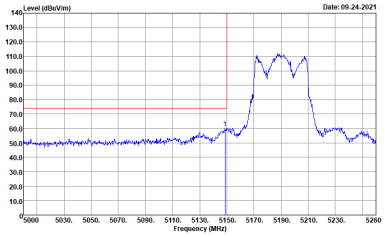
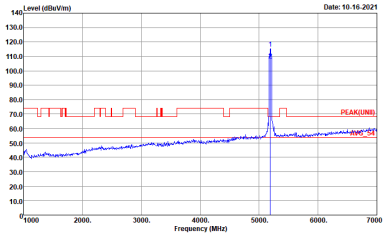
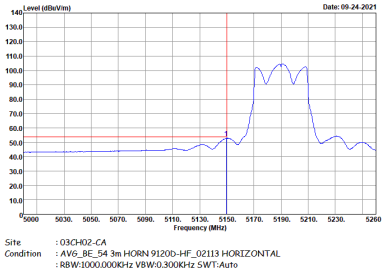
| WIFI | UNII-1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| | 802.11ax HE20 Full CH48 5240MHz - L | |
| | Horizontal | Fundamental |
| Peak |  |  |
| Avg. |  | Left blank |

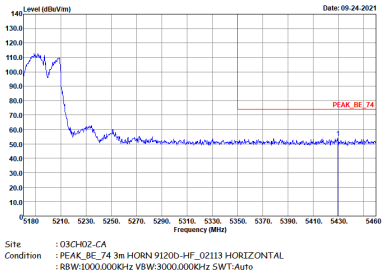
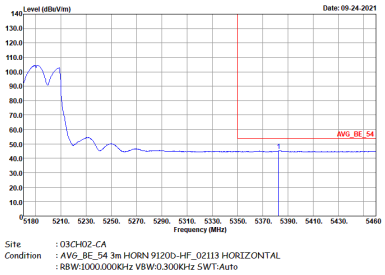
| WIFI | UNII-1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| | 802.11ax HE20 Full CH48 5240MHz - R | |
| | Horizontal | Fundamental |
| Peak |  | Left blank |
| Avg. |  | Left blank |

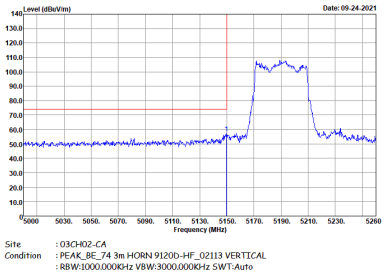
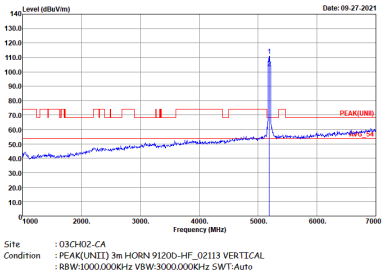
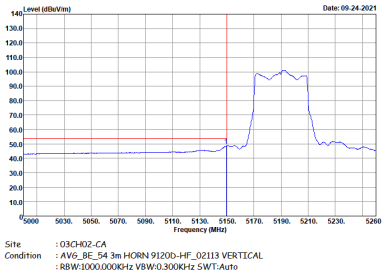
| WIFI | UNII-1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| | 802.11ax HE20 Full CH48 5240MHz - L | |
| | Vertical | Fundamental |
| Peak |  |  |
| Avg. |  | Left blank |

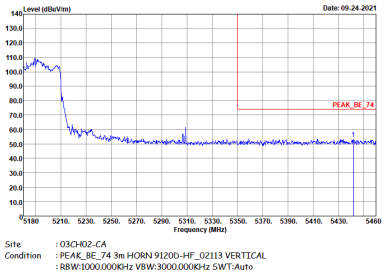
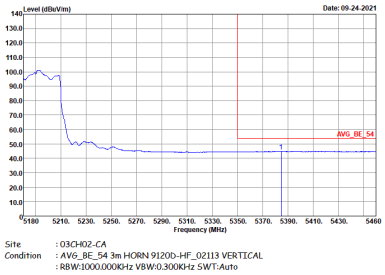
| WIFI | UNII-1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| | 802.11ax HE20 Full CH48 5240MHz - R | |
| | Vertical | Fundamental |
| Peak |  | Left blank |
| Avg. |  | Left blank |

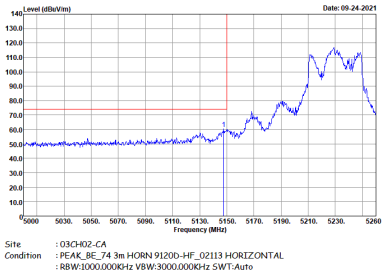
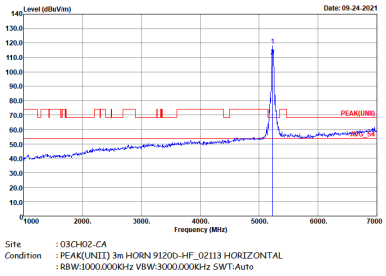
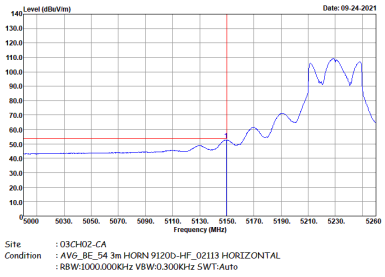
## UNII-1 5150~5250MHz
## WIFI 802.11ax HE40 Full (Band Edge @ 3m)

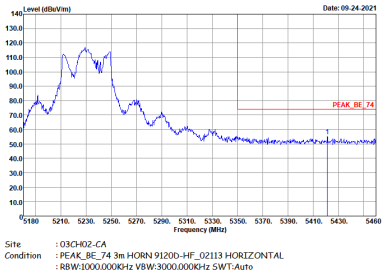
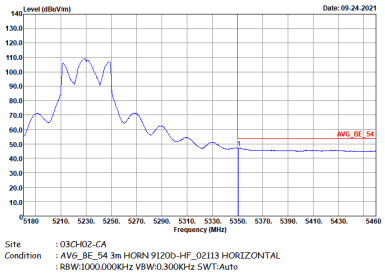
| WIFI | UNII-1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| | 802.11ax HE40 Full CH38 5190MHz - L | |
| | Horizontal | Fundamental |
| Peak |  |  |
| Avg. |  | Left blank |

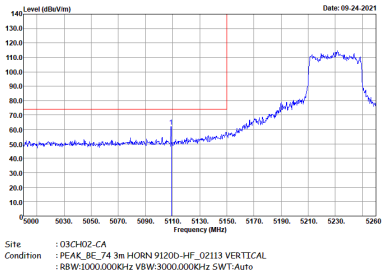
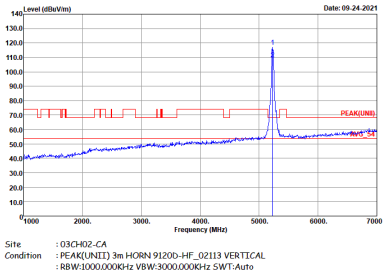
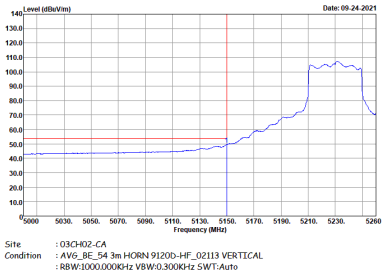
| WIFI | UNII-1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| | 802.11ax HE40 Full CH38 5190MHz - R | |
| | Horizontal | Fundamental |
| Peak |  | Left blank |
| Avg. |  | Left blank |

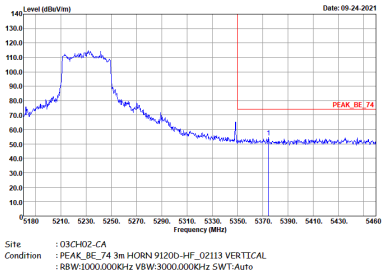
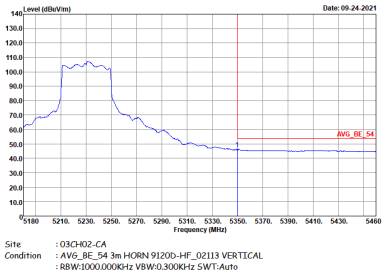
| WIFI | UNII-1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| | 802.11ax HE40 Full CH38 5190MHz - L | |
| | Vertical | Fundamental |
| Peak |  |  |
| Avg. |  | Left blank |

| WIFI | UNII-1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| | 802.11ax HE40 Full CH38 5190MHz - R | |
| | Vertical | Fundamental |
| Peak |  | Left blank |
| Avg. |  | Left blank |

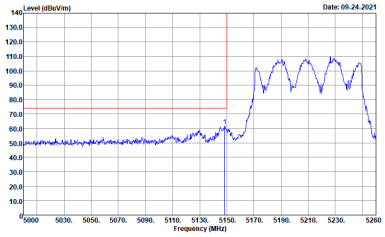
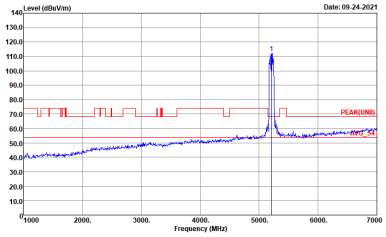
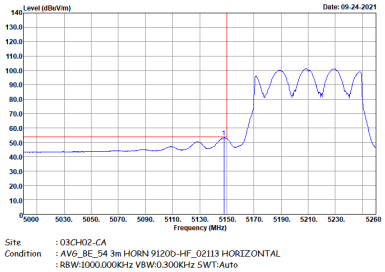
| WIFI | UNII-1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| | 802.11ax HE40 Full CH46 5230MHz - L | |
| | Horizontal | Fundamental |
| Peak |  |  |
| Avg. |  | Left blank |

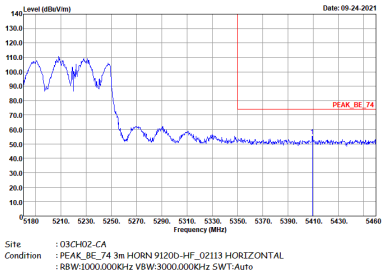
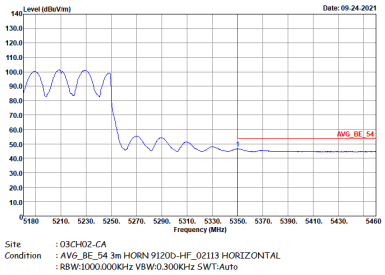
| WIFI | UNII-1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| | 802.11ax HE40 Full CH46 5230MHz - R | |
| | Horizontal | Fundamental |
| Peak |  | Left blank |
| Avg. |  | Left blank |

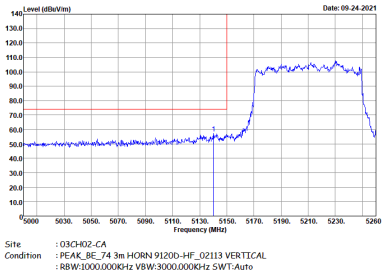
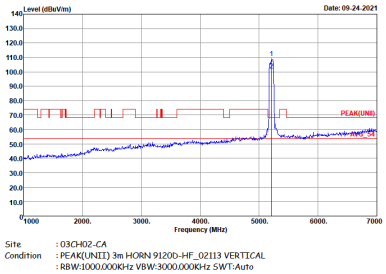
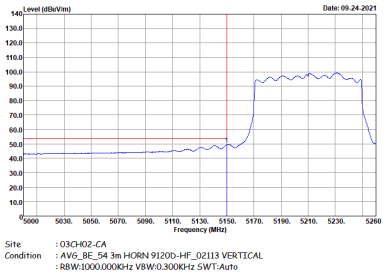
| WIFI | UNII-1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| | 802.11ax HE40 Full CH46 5230MHz - L | |
| | Vertical | Fundamental |
| Peak |  |  |
| Avg. |  | Left blank |

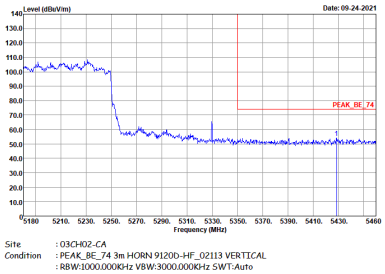
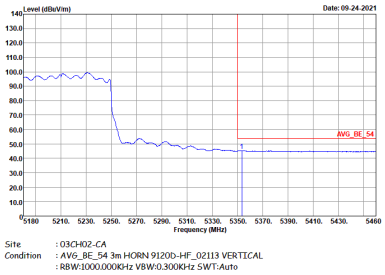
| WIFI | UNII-1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| | 802.11ax HE40 Full CH46 5230MHz - R | |
| | Vertical | Fundamental |
| Peak |  | Left blank |
| Avg. |  | Left blank |

## UNII-1 5150~5250MHz
## WIFI 802.11ax HE80 Full (Band Edge @ 3m)

| WIFI | UNII-1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| | 802.11ax HE80 Full CH42 5210MHz - L | |
| | Horizontal | Fundamental |
| Peak |  |  |
| Avg. |  | Left blank |

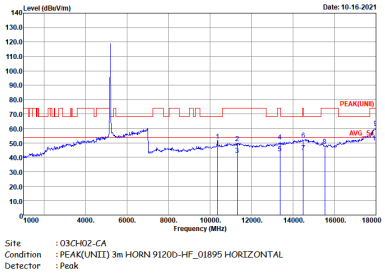
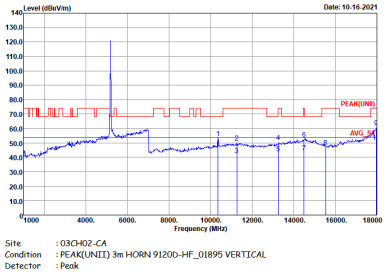
| WIFI | UNII-1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| | 802.11ax HE80 Full CH42 5210MHz - R | |
| | Horizontal | Fundamental |
| Peak |  | Left blank |
| Avg. |  | Left blank |

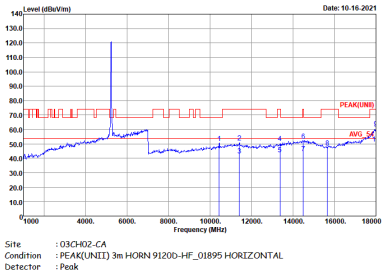
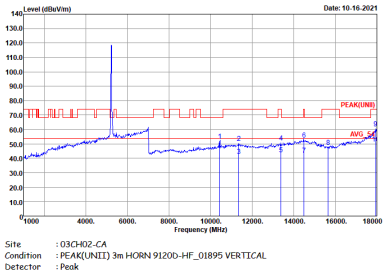
| WIFI | UNII-1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| | 802.11ax HE80 Full CH42 5210MHz - L | |
| | Vertical | Fundamental |
| Peak |  |  |
| Avg. |  | Left blank |

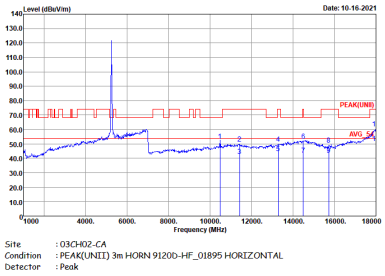
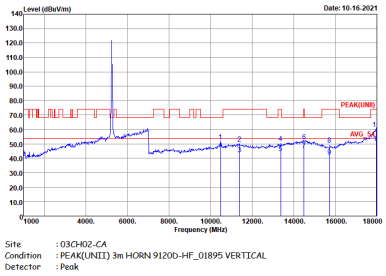
| WIFI | UNII-1 5150~5250MHz Band Edge @ 3m | |
|---|---|---|
| | 802.11ax HE80 Full CH42 5210MHz - R | |
| | Vertical | Fundamental |
| Peak |  | Left blank |
| Avg. |  | Left blank |

## UNII-1 - 5150~5250MHz

## WIFI 802.11a (Harmonic @ 3m)

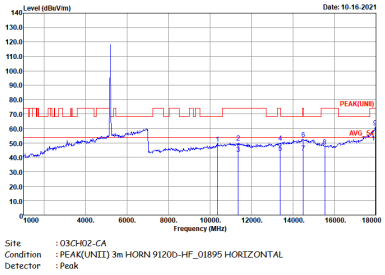
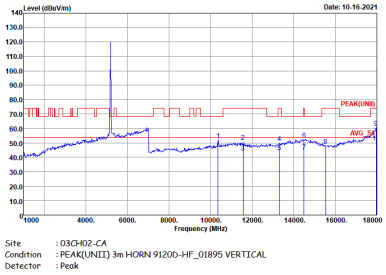
| WIFI | UNII-1 5150~5250MHz Harmonic @ 3m | |
|---|---|---|
| | 802.11a CH36 5180MHz | |
| | Horizontal | Vertical |
| Peak |  |  |

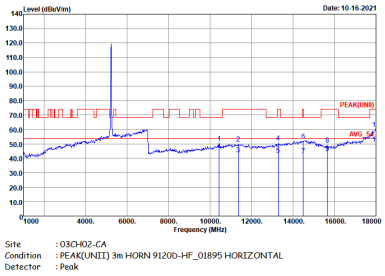
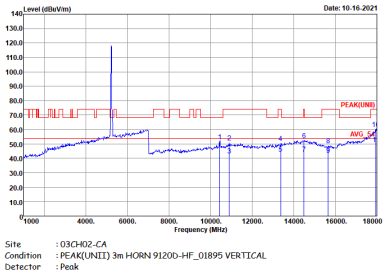
| WIFI | UNII-1 5150~5250MHz Harmonic @ 3m | |
|---|---|---|
| | 802.11a CH44 5220MHz | |
| | Horizontal | Vertical |
| Peak |  |  |

| WIFI | UNII-1 5150~5250MHz Harmonic @ 3m | |
|---|---|---|
| | 802.11a CH48 5240MHz | |
| | Horizontal | Vertical |
| Peak |  |  |

## UNII-1 5150~5250MHz

## WIFI 802.11ax HE20 Full (Harmonic @ 3m)

| WIFI | UNII-1 5150~5250MHz Harmonic @ 3m | |
|---|---|---|
| | 802.11ax HE20 Full CH36 5180MHz | |
| | Horizontal | Vertical |
| Peak |  |  |

| WIFI | UNII-1 5150~5250MHz Harmonic @ 3m | |
|---|---|---|
| | 802.11ax HE20 Full CH44 5220MHz | |
| | Horizontal | Vertical |
| Peak |  |  |