



FCC RADIO TEST REPORT

FCC ID : 2AG7G-J1A
Equipment : Plume Adaptive Wi-Fi
Brand Name : Plume Design, Inc.
Model Name : J1A
Applicant : Plume Design, Inc.
325 Lytton Ave., Palo Alto, CA 94301
Manufacturer : Plume Design, Inc.
325 Lytton Ave., Palo Alto, CA 94301
Standard : FCC Part 15 Subpart E §15.407

The product was received on Oct. 15, 2021 and testing was performed from Oct. 21, 2021 to Dec. 30, 2021. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



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History of this test report

| Report No. | Version | Description | Issue Date |
|------------|---------|-------------------------|---------------|
| FR1O0638C | 01 | Initial issue of report | Jan. 18, 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 | 1.16 dB under the limit at 15720.000 MHz |
| 3.5 | 15.207 | AC Conducted Emission | Pass | 11.15 dB under the limit at 0.688 MHz |
| 3.6 | 15.203 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.

Reviewed by: Danny Lee
Report Producer: Lucy Wu



1 General Description

1.1 Product Feature of Equipment Under Test

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 and UWB.

| Product Feature | |
|---------------------|--|
| Antenna Type | <p>WLAN</p> <p><2400 MHz ~ 2483.5 MHz> <Ant. 3>: IFA Antenna <Ant. 4>: IFA Antenna</p> <p><5180 MHz ~ 5240 MHz> <Ant. 1>: IFA Antenna <Ant. 2>: IFA Antenna <Ant. 3>: IFA Antenna <Ant. 4>: IFA Antenna</p> <p><5260 MHz ~ 5320 MHz> <Ant. 1>: IFA / Slot Antenna <Ant. 2>: IFA / Slot Antenna <Ant. 3>: IFA / Slot Antenna <Ant. 4>: IFA / Slot Antenna</p> <p><5500MHz ~ 5825 MHz> <Ant. 1>: IFA / Slot Antenna <Ant. 2>: IFA / Slot Antenna <Ant. 3>: IFA / Slot Antenna <Ant. 4>: IFA / Slot Antenna</p> <p><5925 MHz ~ 6425 MHz> <Ant. 5>: IFA Antenna <Ant. 6>: IFA Antenna <Ant. 7>: IFA Antenna <Ant. 8>: IFA Antenna</p> <p><6425 MHz ~ 6525 MHz> <Ant. 5>: IFA Antenna <Ant. 6>: IFA Antenna <Ant. 7>: IFA Antenna <Ant. 8>: IFA Antenna</p> <p><6525 MHz ~ 6875 MHz> <Ant. 5>: IFA Antenna <Ant. 6>: IFA Antenna <Ant. 7>: IFA Antenna <Ant. 8>: IFA Antenna</p> <p><6875 MHz ~ 7125 MHz> <Ant. 5>: IFA Antenna <Ant. 6>: IFA Antenna <Ant. 7>: IFA Antenna <Ant. 8>: IFA Antenna</p> <p>Bluetooth - LE: IFA Antenna UWB: IFA Antenna</p> |

| Antenna information | | |
|---------------------|-----------------|-------------|
| 5150 MHz ~ 5250 MHz | Peak Gain (dBi) | Ant. 1: 3.0 |
| | | Ant. 2: 2.8 |
| | | Ant. 3: 2.4 |
| | | Ant. 4: 2.3 |

Remark: The above EUT's information is declared by manufacturer. Please refer to Comments and Explanations in report summary.

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

| | |
|---------------------------|---|
| Test Site | Sporton International Inc. EMC & Wireless Communications Laboratory |
| Test Site Location | No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978 |
| Test Site No. | Sporton Site No. |
| | CO05-HY, 03CH07-HY |

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

| | |
|---------------------------|--|
| Test Site | Sporton International Inc. Wensan Laboratory |
| Test Site Location | No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855 |
| Test Site No. | Sporton Site No. |
| | TH05-HY (TAF Code: 3786) |
| Remark | The Conducted test item subcontracted to Sporton International Inc. Wensan Laboratory. |

FCC designation No.: TW1190 and TW3786



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. The TAF code is not including all the FCC KDB listed without accreditation.
3. 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 Z plane 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 | | |

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.



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 |
| 802.11ax HE20 | MCS0 |
| 802.11ax HE40 | MCS0 |
| 802.11ax HE80 | MCS0 |

TXBF Mode

| Modulation | Data Rate |
|----------------------------------|-----------|
| 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 |
| 802.11ax HE20 | MCS0 |
| 802.11ax HE40 | MCS0 |
| 802.11ax HE80 | MCS0 |

| Test Cases | |
|-----------------------|---|
| AC Conducted Emission | Mode 1 : Bluetooth Link + WLAN (2.4GHz) Link + WLAN (5GHz) Link + WLAN (6GHz) Link + UWB Link + LAN Link + WAN Link |

<CDD Mode>

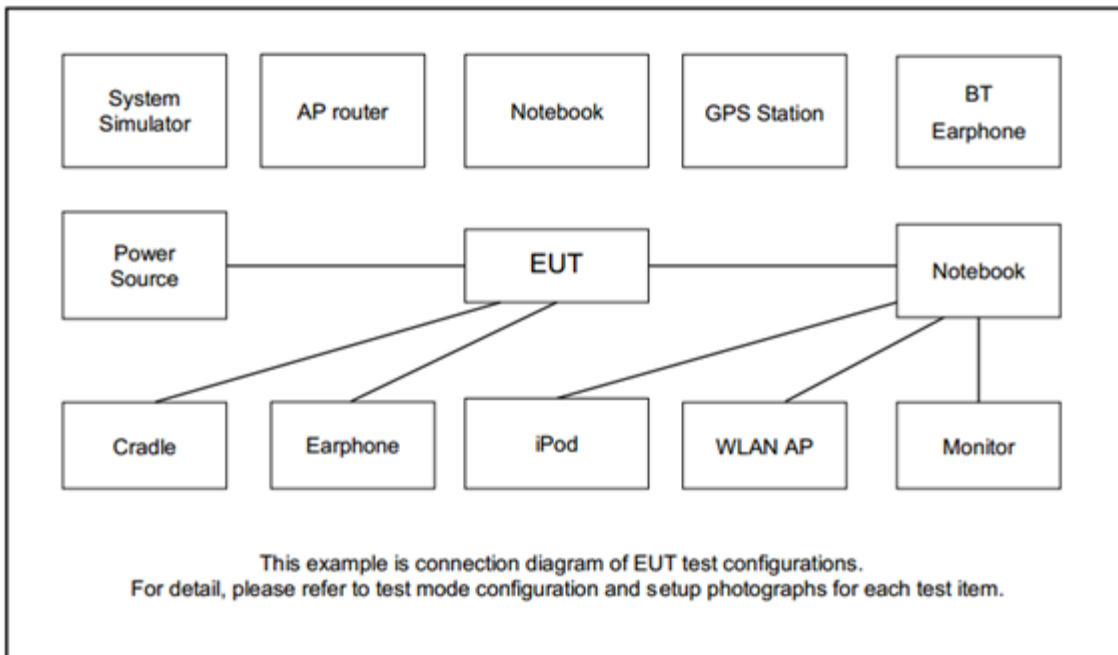
| Ch. # | | Band I : 5150-5250 MHz | | | |
|-------|--------|------------------------|---------------|---------------|---------------|
| | | 802.11a | 802.11ax HE20 | 802.11ax HE40 | 802.11ax HE80 |
| L | Low | 36 | 36 | 38 | - |
| M | Middle | 44 | 44 | - | 42 |
| H | High | 48 | 48 | 46 | - |

<TXBF Mode>

| Ch. # | | Band I : 5150-5250 MHz | | |
|-------|--------|------------------------|---------------|---------------|
| | | 802.11ax HE20 | 802.11ax HE40 | 802.11ax HE80 |
| L | Low | 36 | 38 | - |
| M | Middle | 44 | - | 42 |
| H | High | 48 | 46 | - |

Remark: For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.

2.3 Connection Diagram of Test System





2.4 Support Unit used in test configuration and system

| Item | Equipment | Brand Name | Model Name | FCC ID | Data Cable | Power Cord |
|------|----------------------|-------------------|----------------|---|------------|--|
| 1. | System Simulator | R&S | CMW 500 | N/A | N/A | Unshielded, 1.8 m |
| 2. | Notebook | DELL | Latitude 3400 | FCC DoC | N/A | AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m |
| 3. | Notebook | DELL | Latitude E3340 | FCC DoC/ Contains FCC ID: PD97260NGU | N/A | AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m |
| 4. | Notebook | DELL | P79G | FCC DoC | N/A | AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m |
| 5. | PC | msi | 9461NGW | PD99461NG | N/A | Unshielded, 1.8 m |
| 6. | Plume Adaptive Wi-Fi | Plume Design Inc. | J1A | 2AG7G-J1A | N/A | N/A |

2.5 EUT Operation Test Setup

The RF test items, utility “QSPR Version 5.0-00198” 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.

For TXBF mode, the modulation modes and data rates manipulated by the command lines in the engineering program made the EUT link to another EUT by power under the normal operation. The “Putty Release 0.60” software tool was used to enable the EUT to transmit signals continuously.

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.

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

3 Test Result

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Description of 26dB & 99% Occupied Bandwidth

This section is for reporting purpose only.
There is no restriction limits for bandwidth.

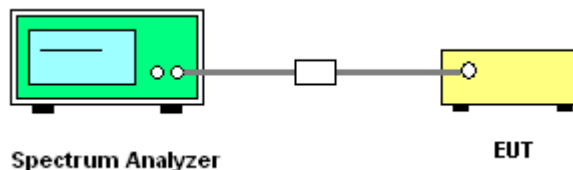
3.1.2 Measuring Instruments

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) $\geq 3 * RBW$.
8. Measure and record the results in the test report.

3.1.4 Test Setup



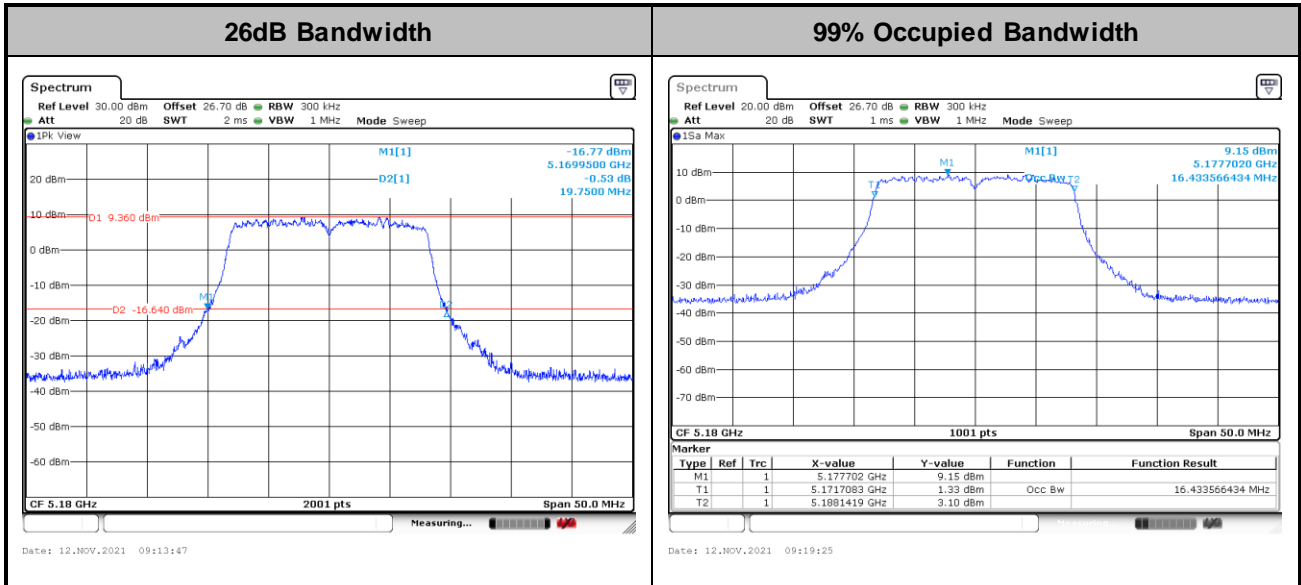
3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.



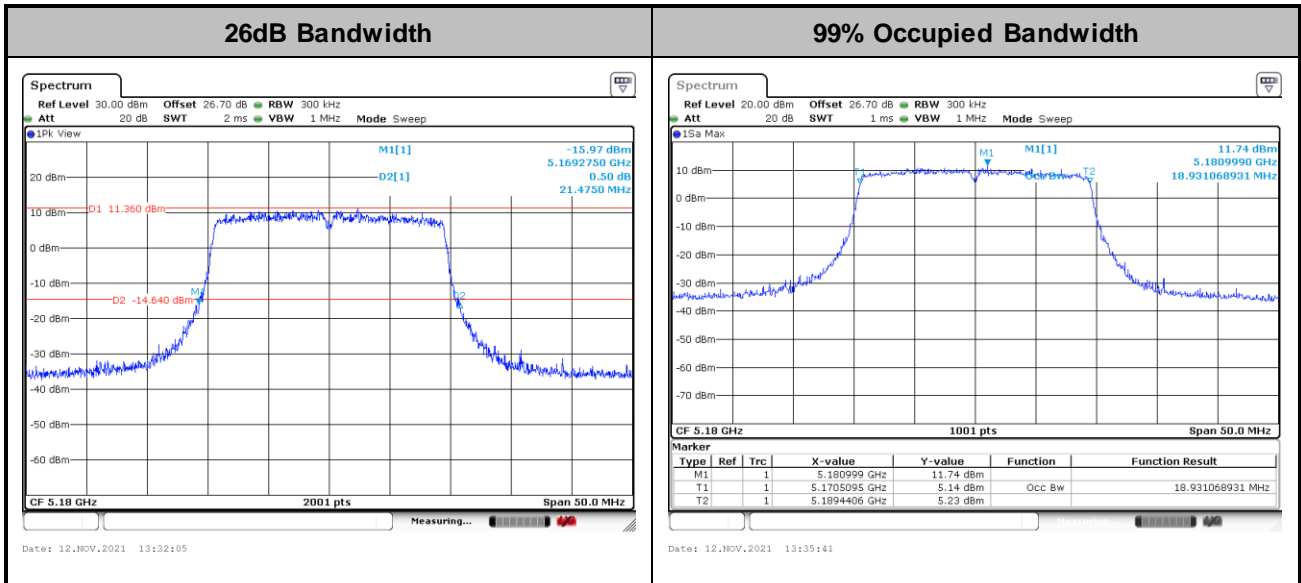
<CDD Mode>

<802.11a CH36>



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

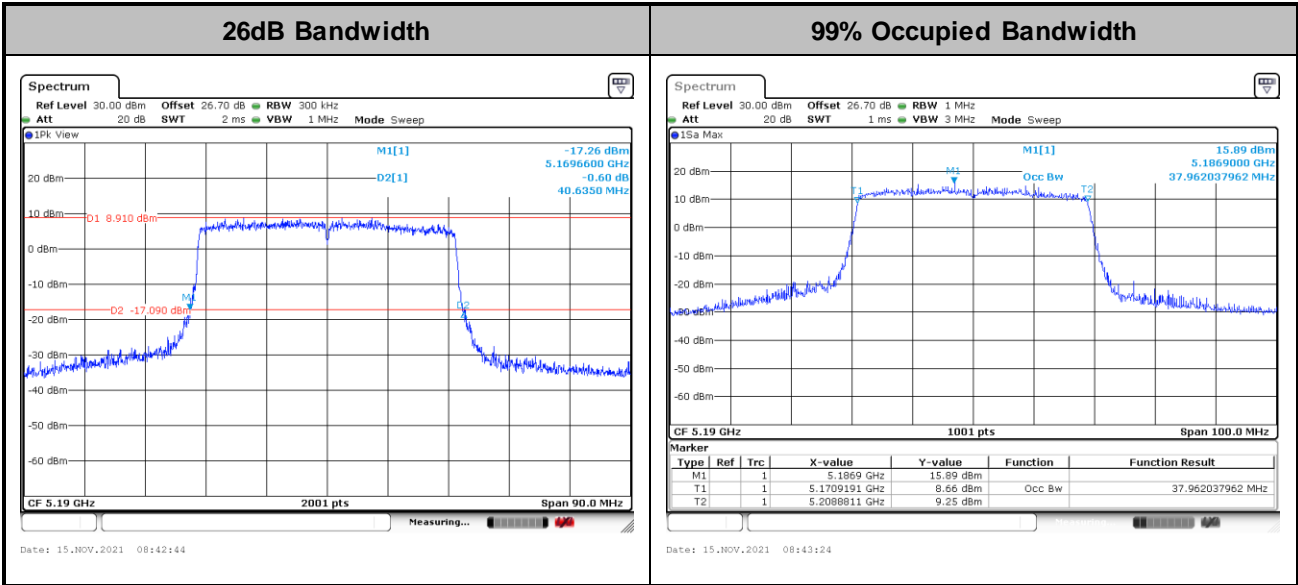
<802.11ax HE20 CH36>



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

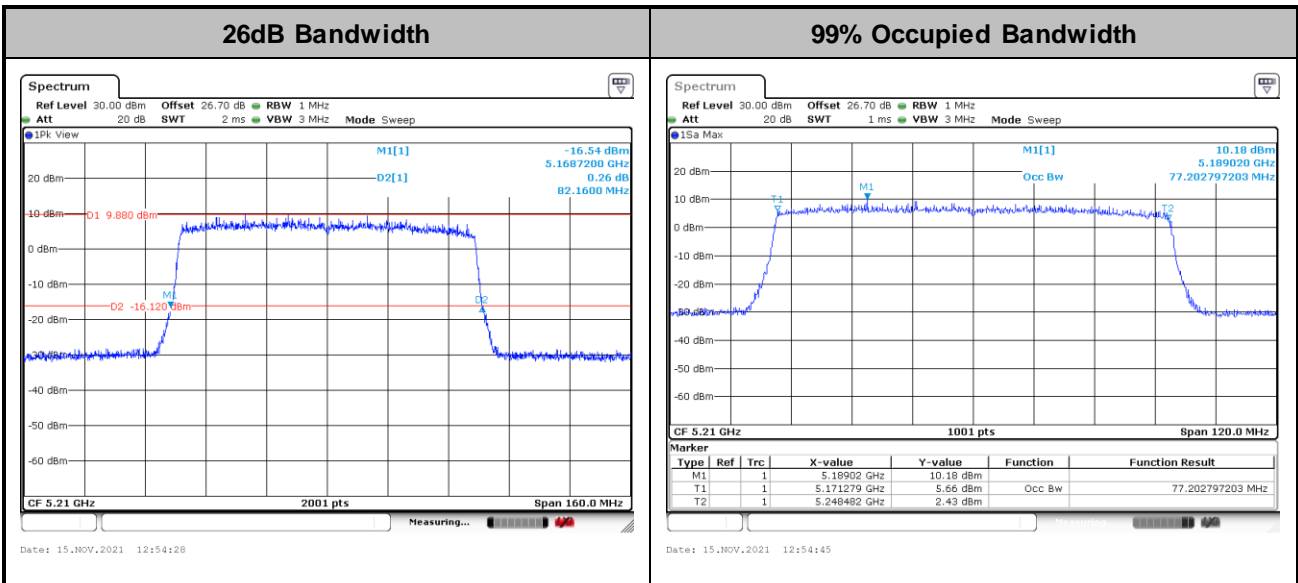


<802.11ax HE40 CH38>



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

<802.11ax HE80 CH42>

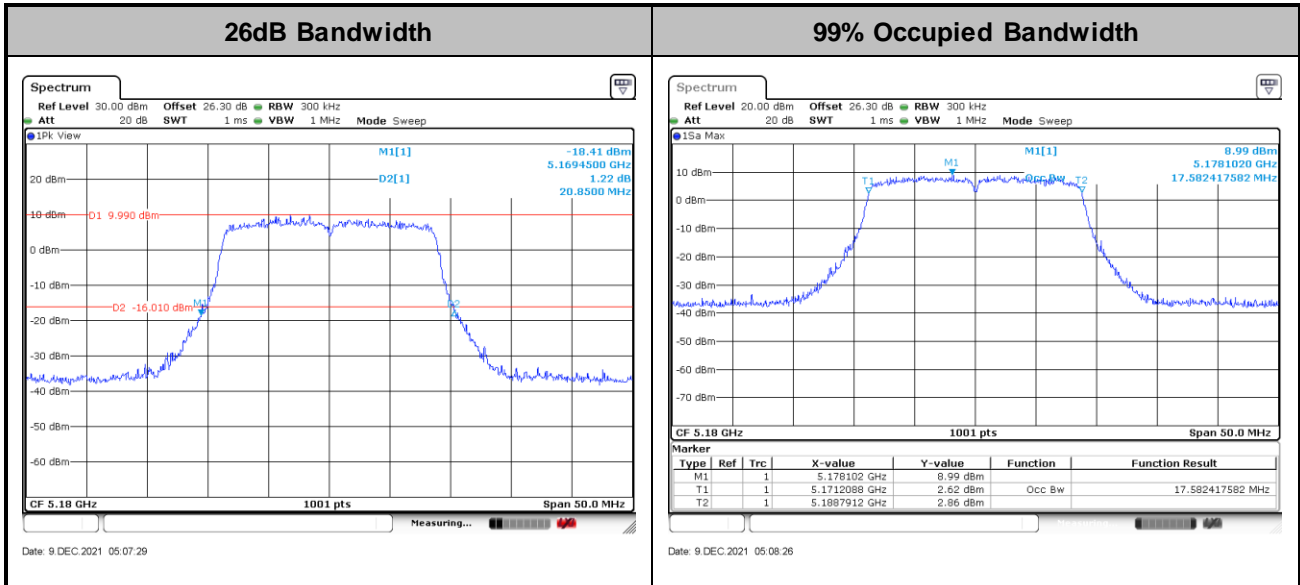


Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.



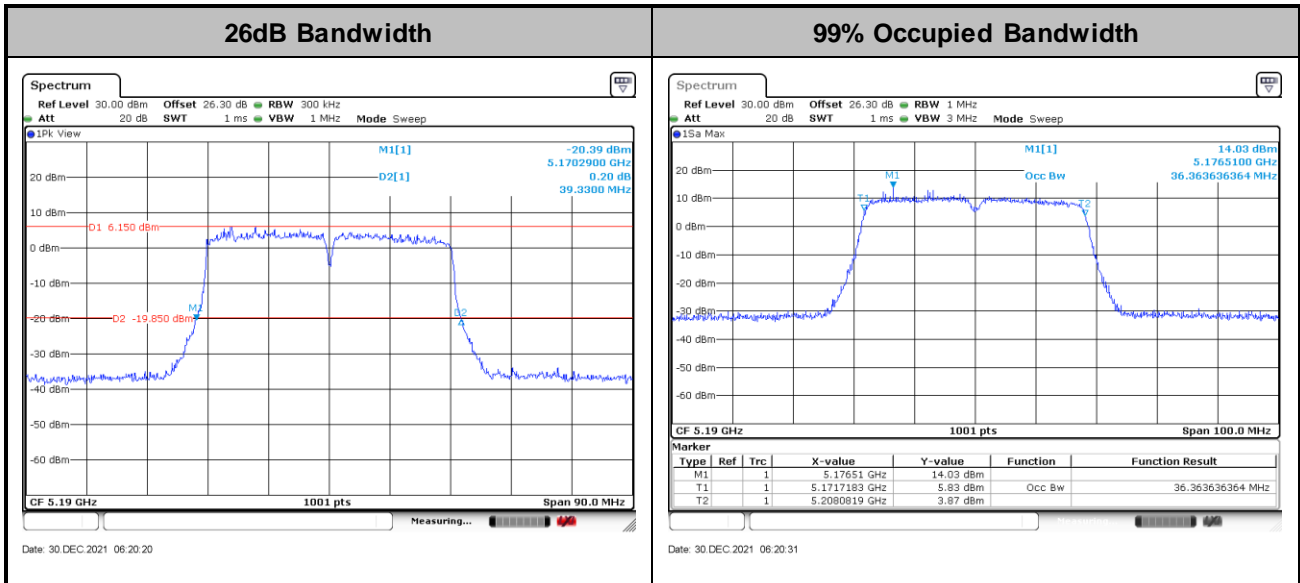
<TXBF Modes>

<802.11ax HE20 CH36>



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

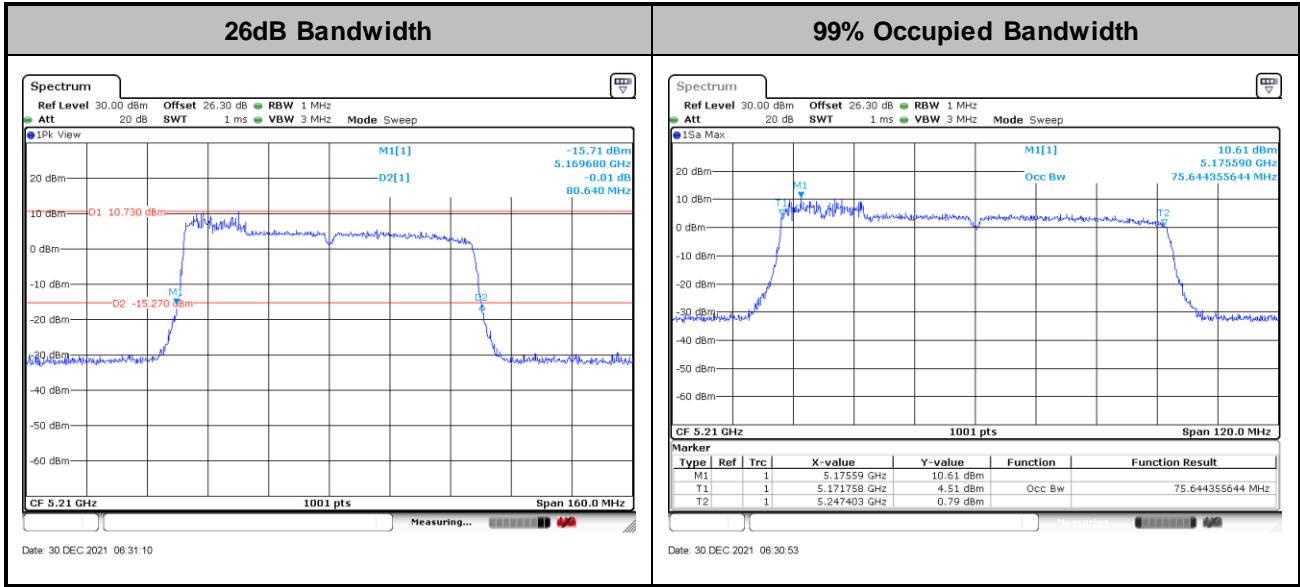
<802.11ax HE40 CH38>



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



<802.11ax HE80 CH42>



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

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

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

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.

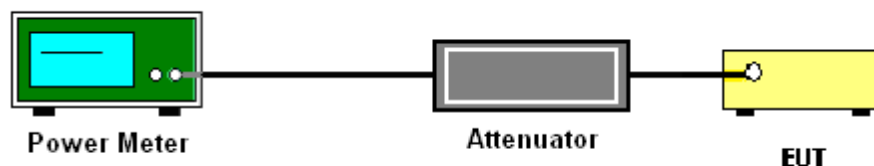
3.2.3 Test Procedures

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

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.

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.

Method SA-3

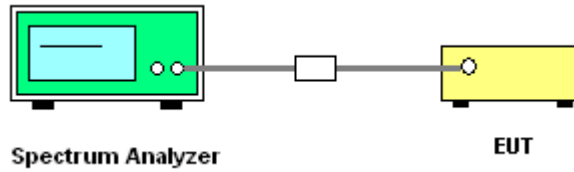
(power averaging (rms) detection with max hold):

- 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 ≤ (number of points in sweep) × 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.
Detector = power averaging (rms).
 - Trace mode = max hold.
 - Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.
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

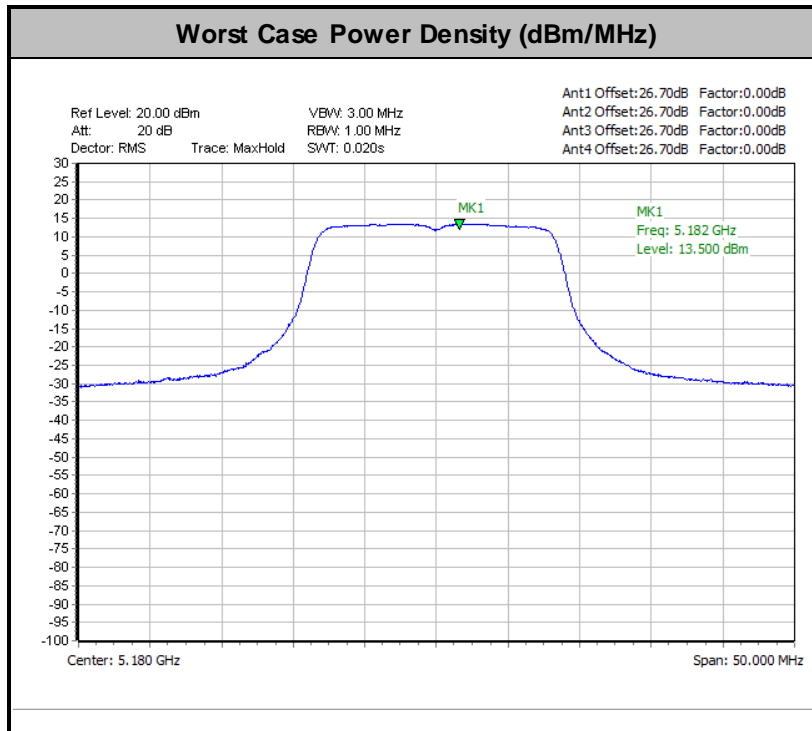


3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

<CDD Modes>

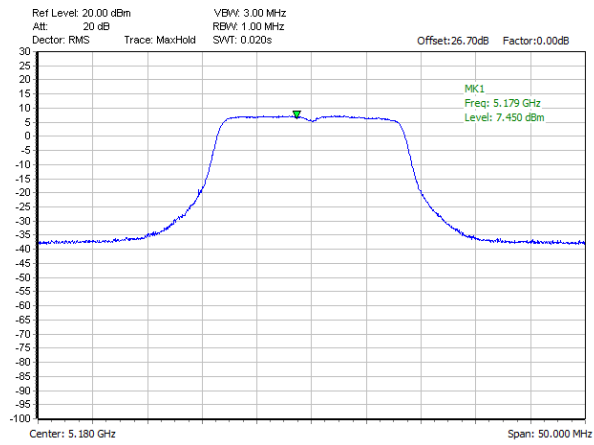
<802.11a Mode>



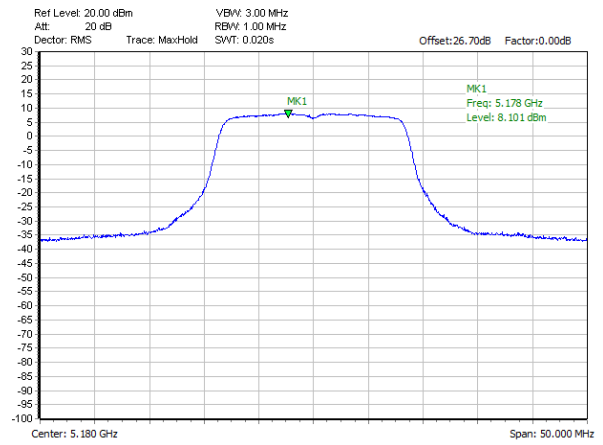
Remark: The test plot is showing a bin by bin combined result mathematically adds four traces.



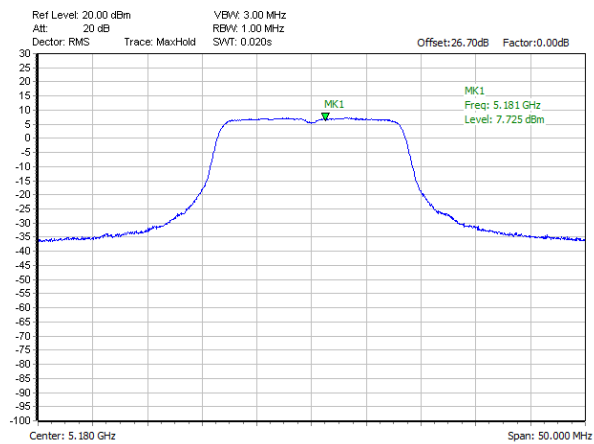
Worst Case Power Density Trace 1 (Ant 1)



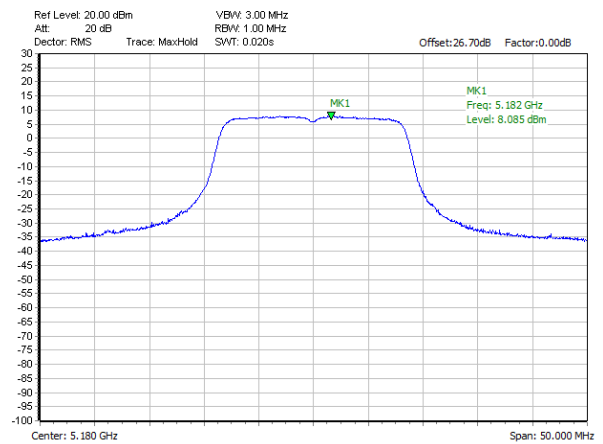
Worst Case Power Density Trace 2 (Ant 2)



Worst Case Power Density Trace 1 (Ant 3)

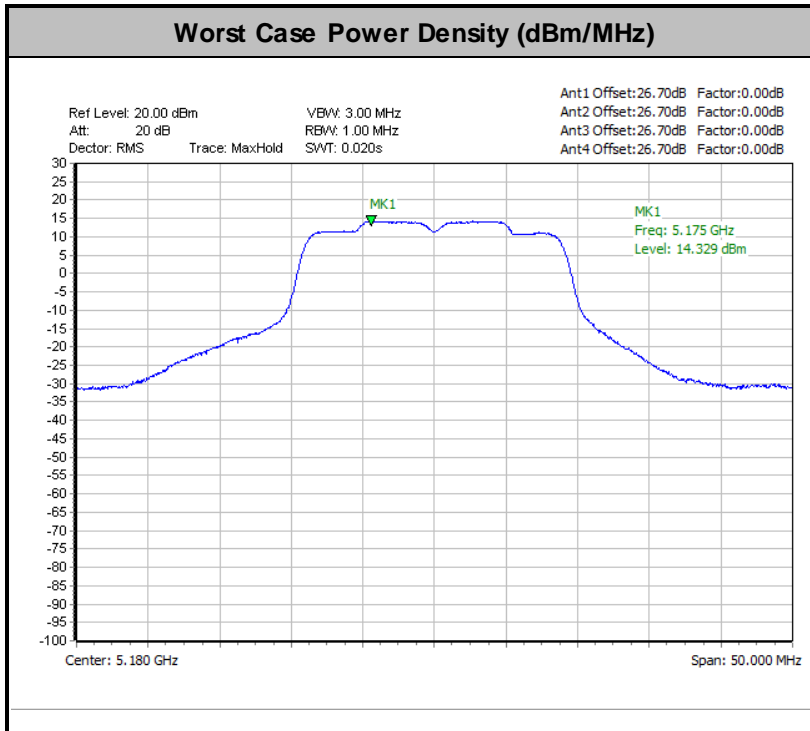


Worst Case Power Density Trace 2 (Ant 4)





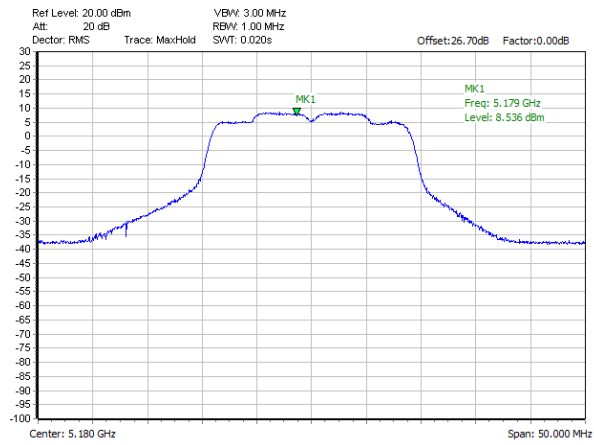
<802.11ax HE20 Mode>



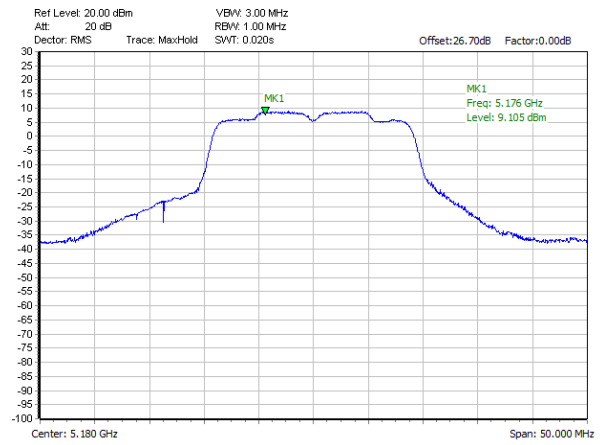
Remark: The test plot is showing a bin by bin combined result mathematically adds four traces.



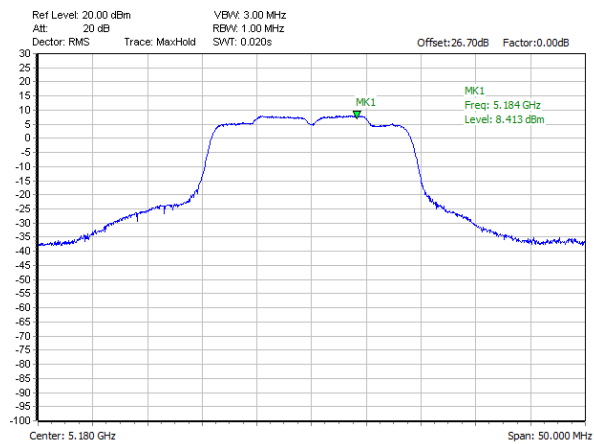
Worst Case Power Density Trace 1 (Ant 1)



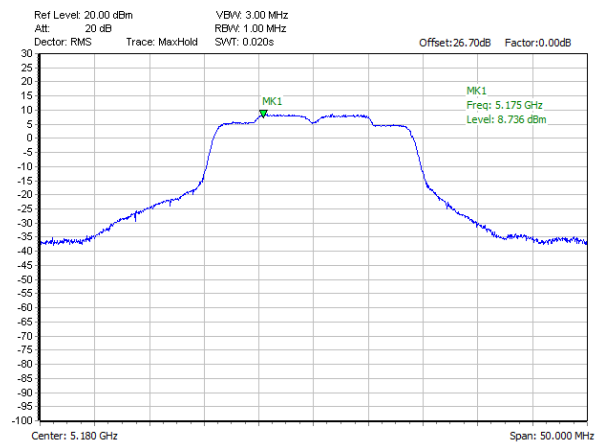
Worst Case Power Density Trace 2 (Ant 2)



Worst Case Power Density Trace 1 (Ant 3)

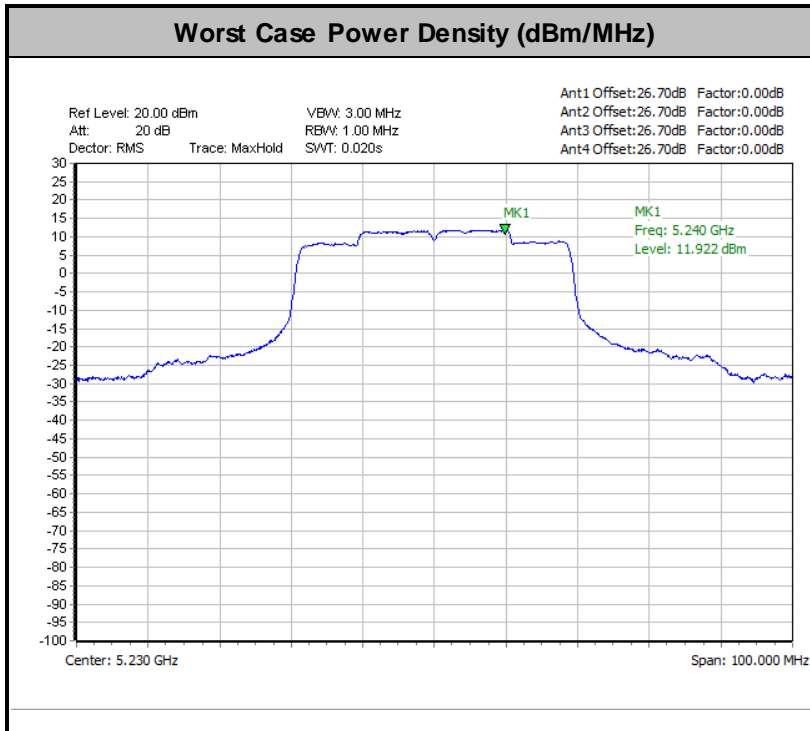


Worst Case Power Density Trace 2 (Ant 4)





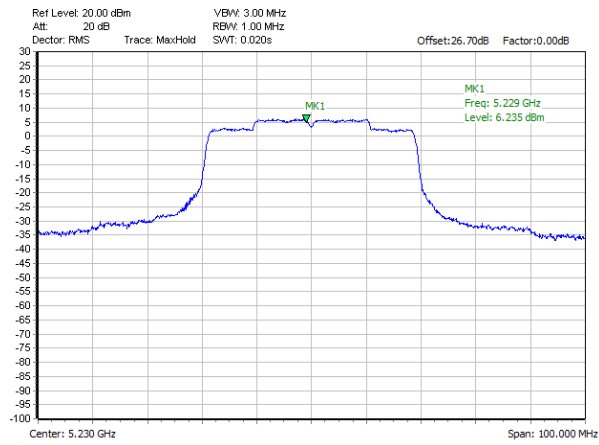
<802.11ax HE40 Mode>



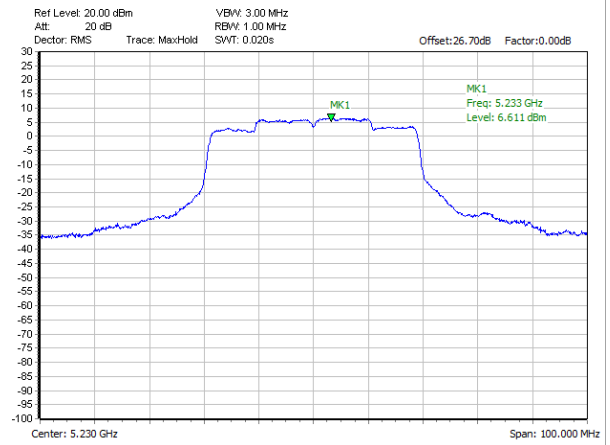
Remark: The test plot is showing a bin by bin combined result mathematically adds four traces.



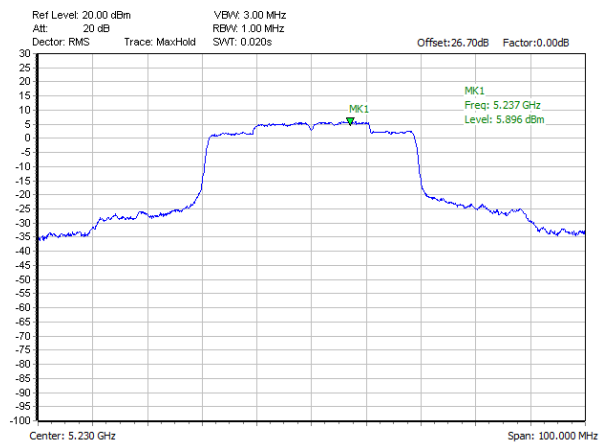
Worst Case Power Density Trace 1 (Ant 1)



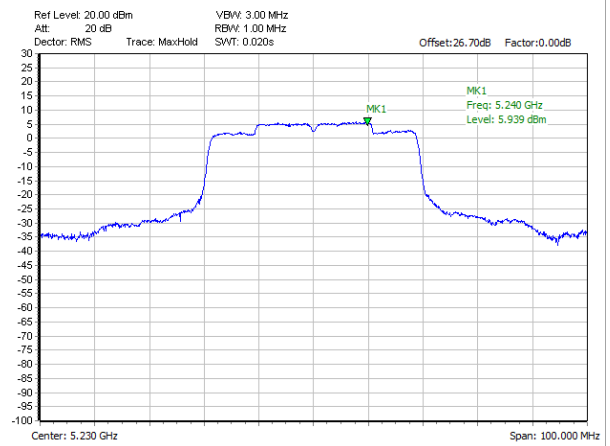
Worst Case Power Density Trace 2 (Ant 2)



Worst Case Power Density Trace 1 (Ant 3)

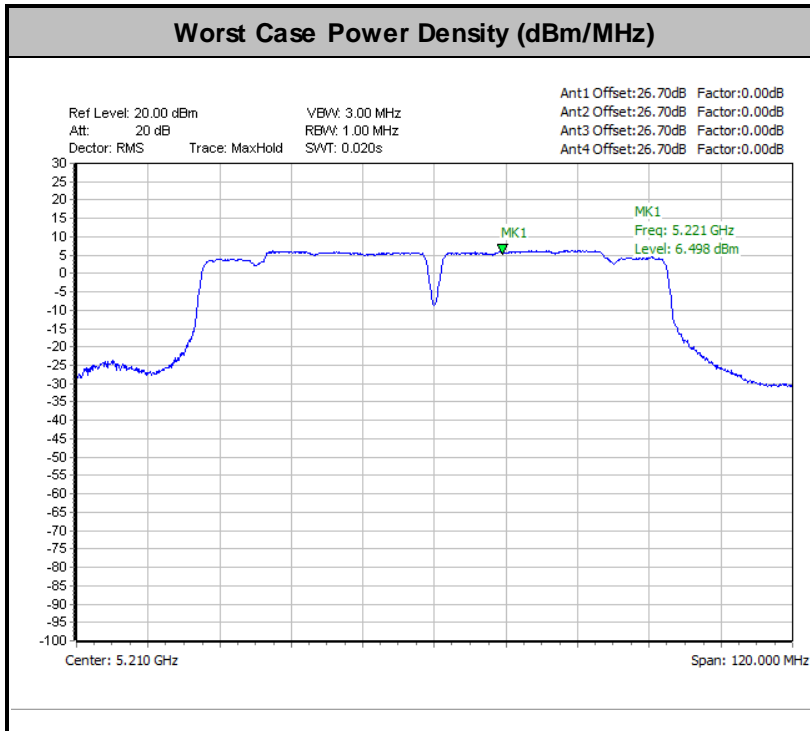


Worst Case Power Density Trace 2 (Ant 4)





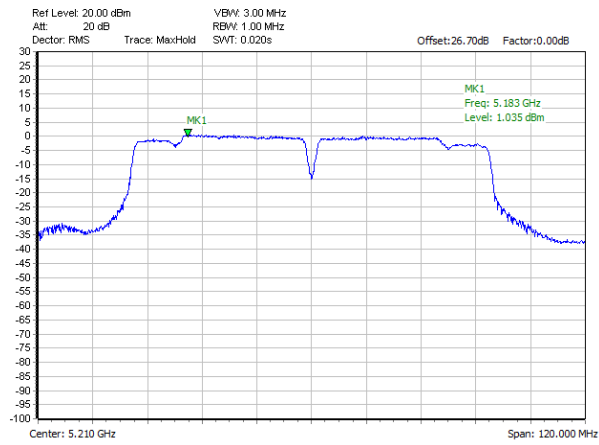
<802.11ax HE80 Mode>



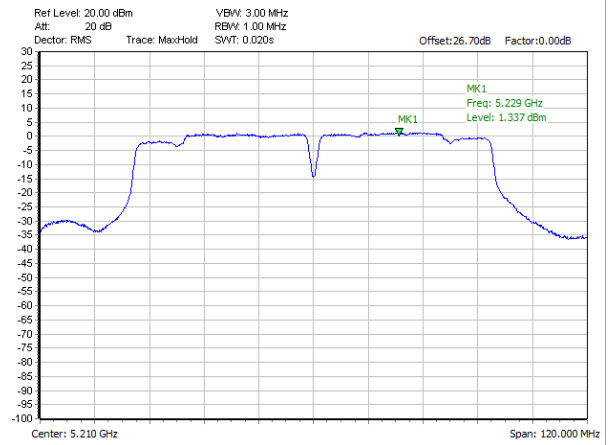
Remark: The test plot is showing a bin by bin combined result mathematically adds four traces.



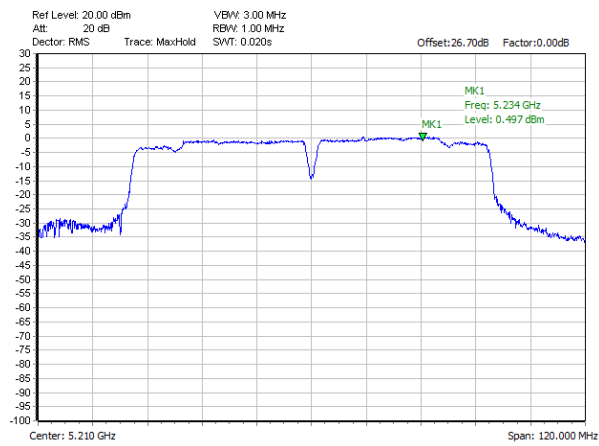
Worst Case Power Density Trace 1 (Ant 1)



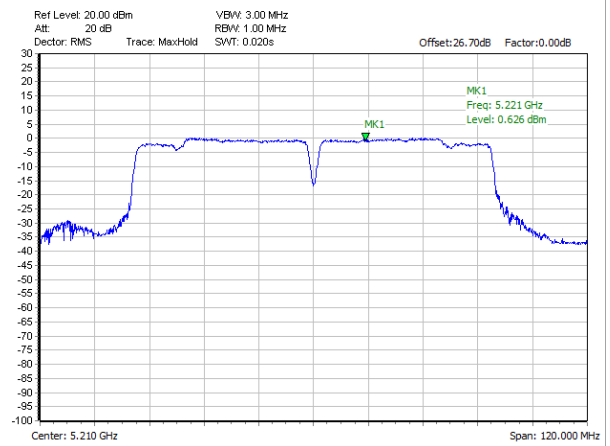
Worst Case Power Density Trace 2 (Ant 2)



Worst Case Power Density Trace 1 (Ant 3)



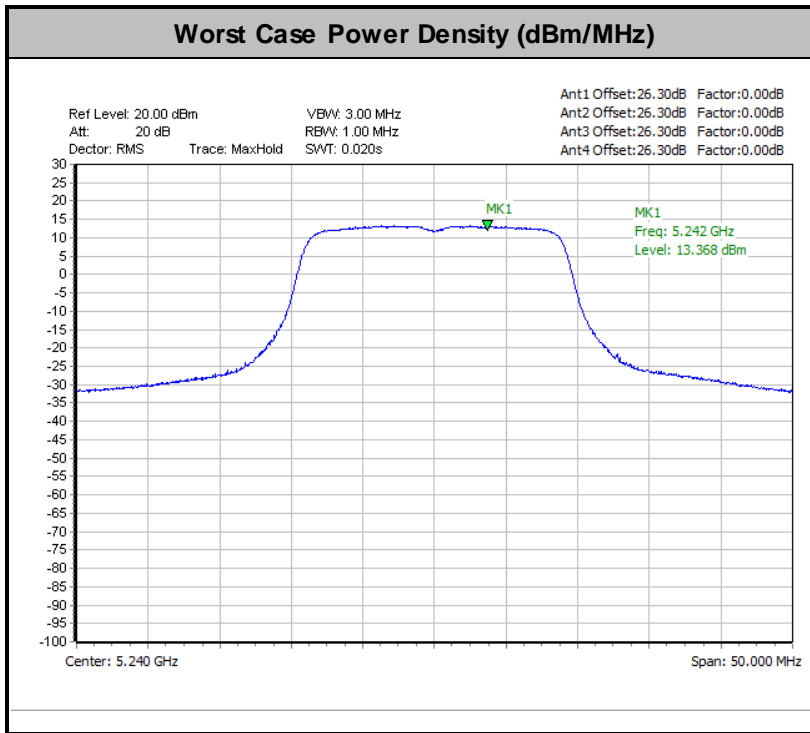
Worst Case Power Density Trace 2 (Ant 4)





<TXBF Modes>

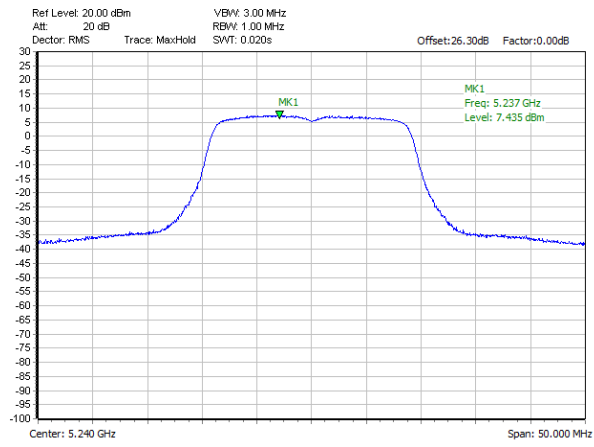
<802.11ax HE20 Mode>



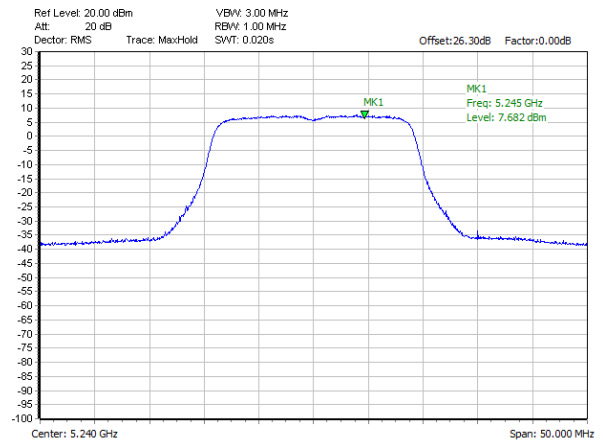
Remark: The test plot is showing a bin by bin combined result mathematically adds four traces.



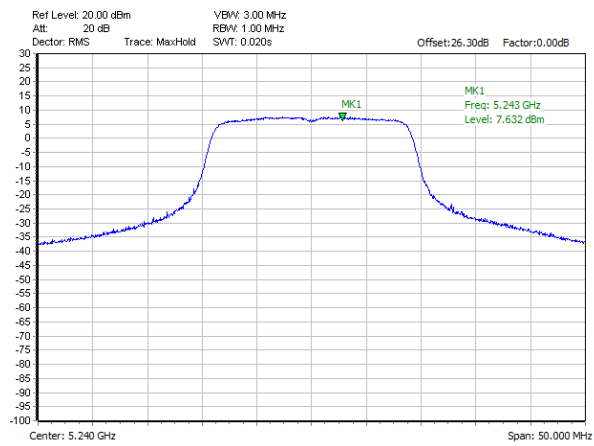
Worst Case Power Density Trace 1 (Ant 1)



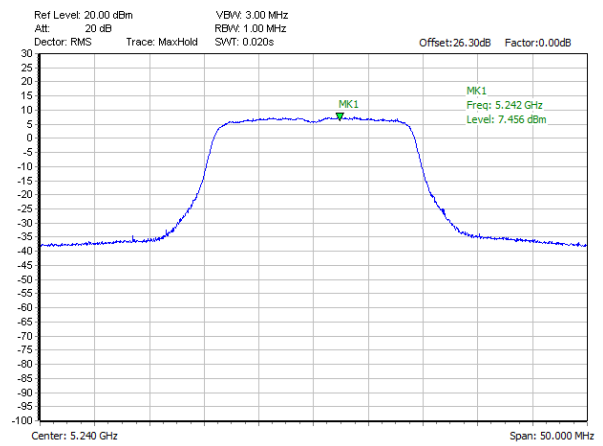
Worst Case Power Density Trace 2 (Ant 2)



Worst Case Power Density Trace 1 (Ant 3)

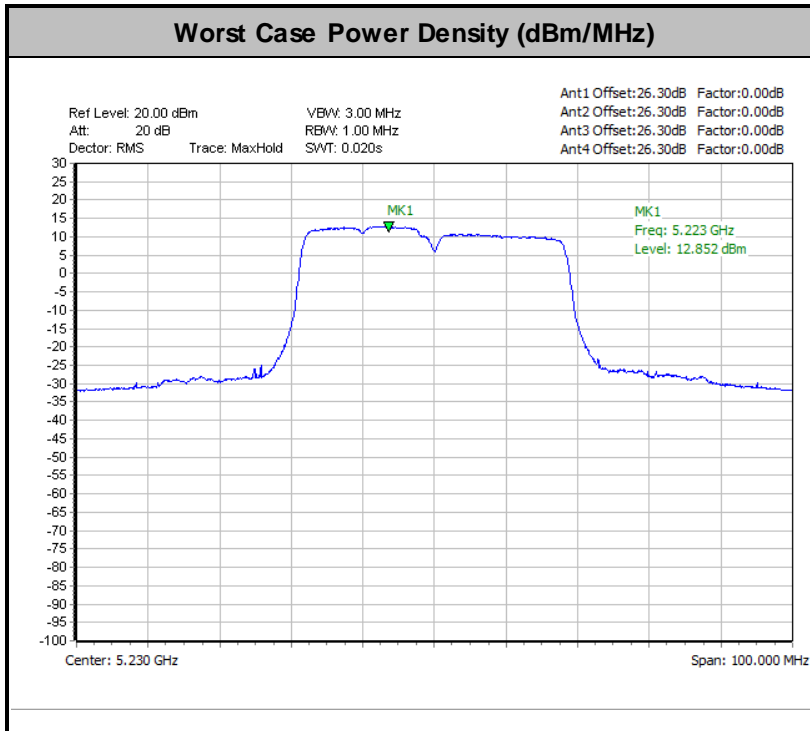


Worst Case Power Density Trace 2 (Ant 4)





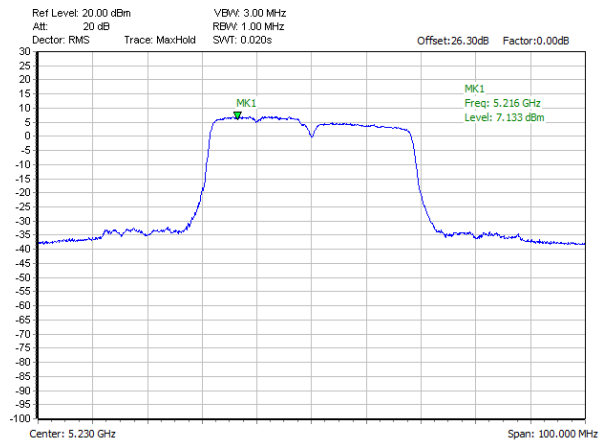
<802.11ax HE40 Mode>



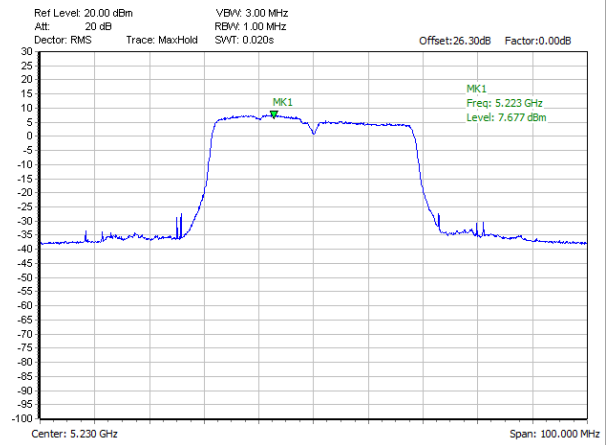
Remark: The test plot is showing a bin by bin combined result mathematically adds four traces.



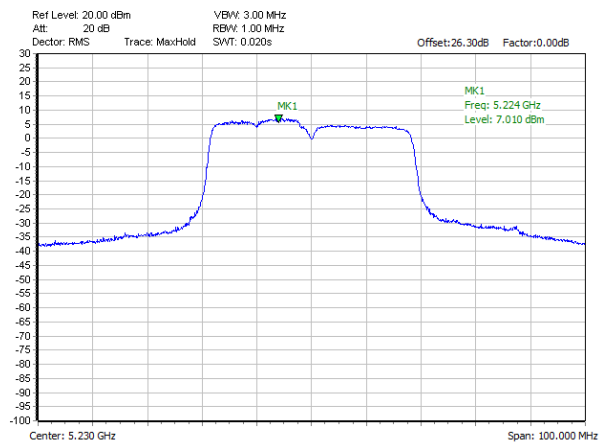
Worst Case Power Density Trace 1 (Ant 1)



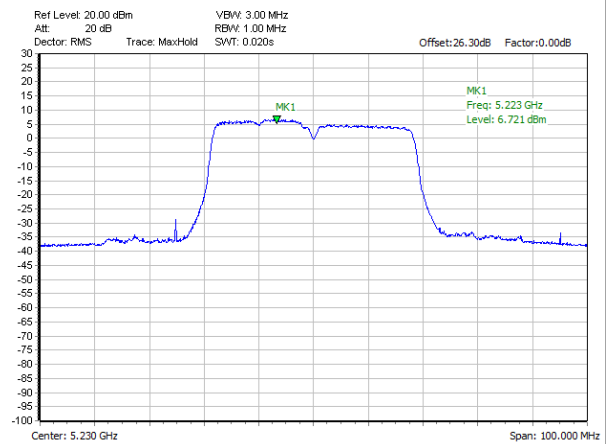
Worst Case Power Density Trace 2 (Ant 2)



Worst Case Power Density Trace 1 (Ant 3)

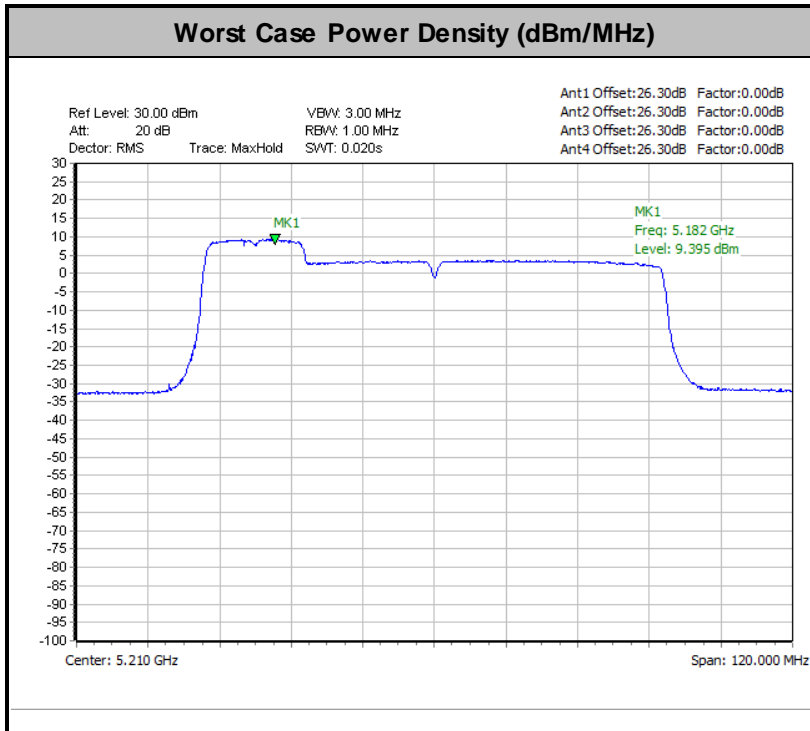


Worst Case Power Density Trace 2 (Ant 4)





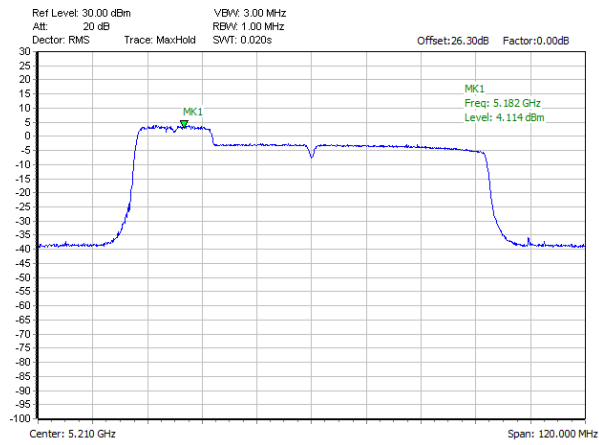
<802.11ax HE80 Mode>



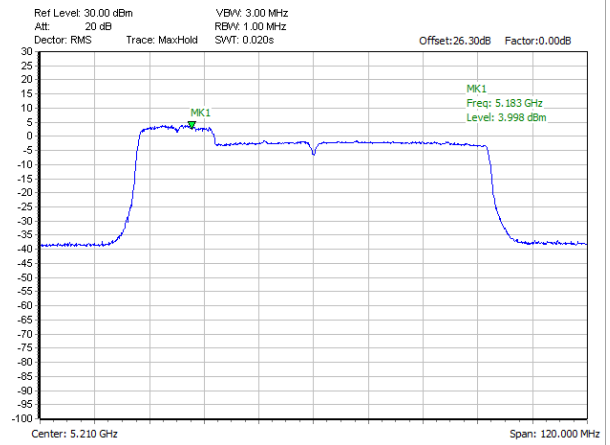
Remark: The test plot is showing a bin by bin combined result mathematically adds four traces.



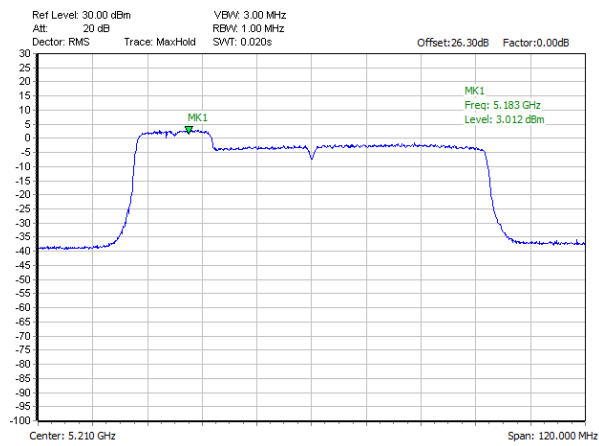
Worst Case Power Density Trace 1 (Ant 1)



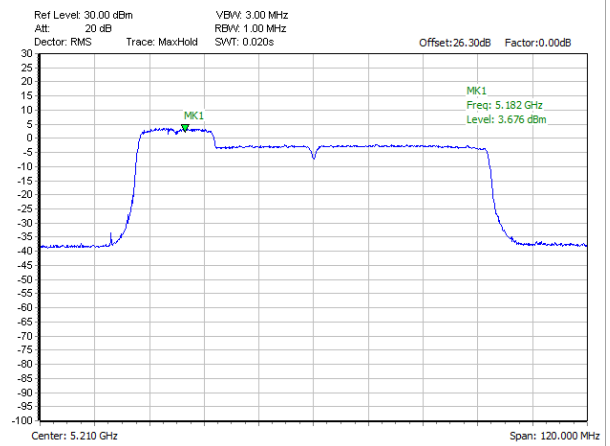
Worst Case Power Density Trace 2 (Ant 2)



Worst Case Power Density Trace 1 (Ant 3)



Worst Case Power Density Trace 2 (Ant 4)





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.
- (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.

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

| 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.

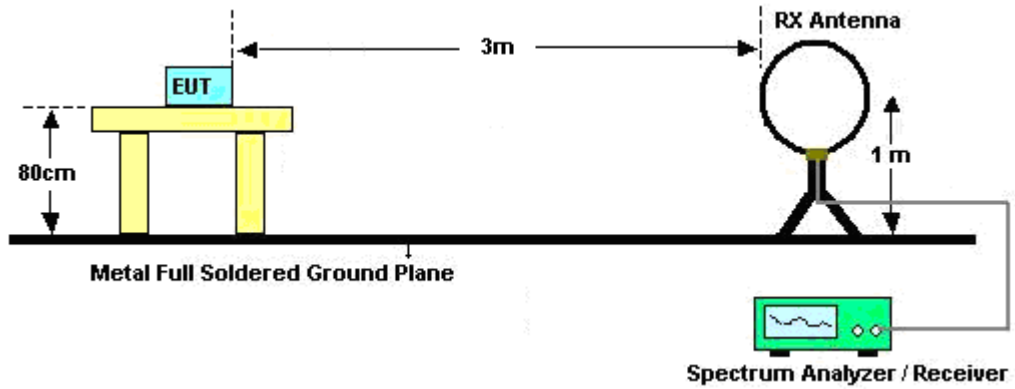


3.4.3 Test Procedures

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 \geq 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 \geq 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
2. The EUT 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 “-“.

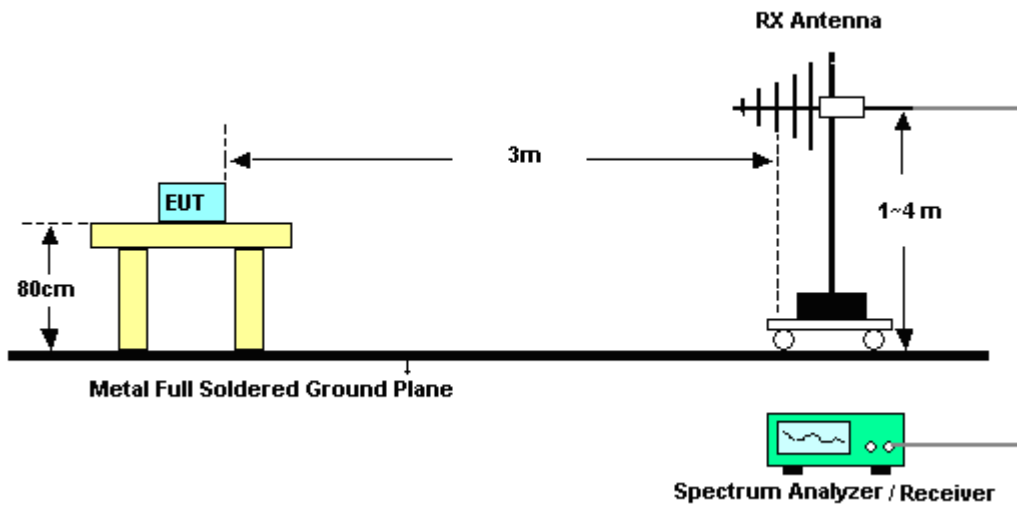
3.4.4 Test Setup

For radiated emissions below 30MHz

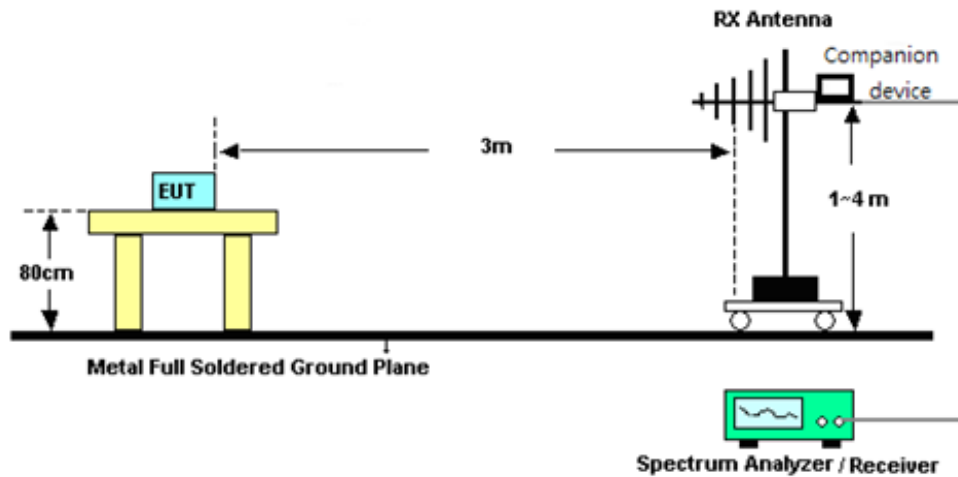


For radiated emissions from 30MHz to 1GHz

<CDD Mode>

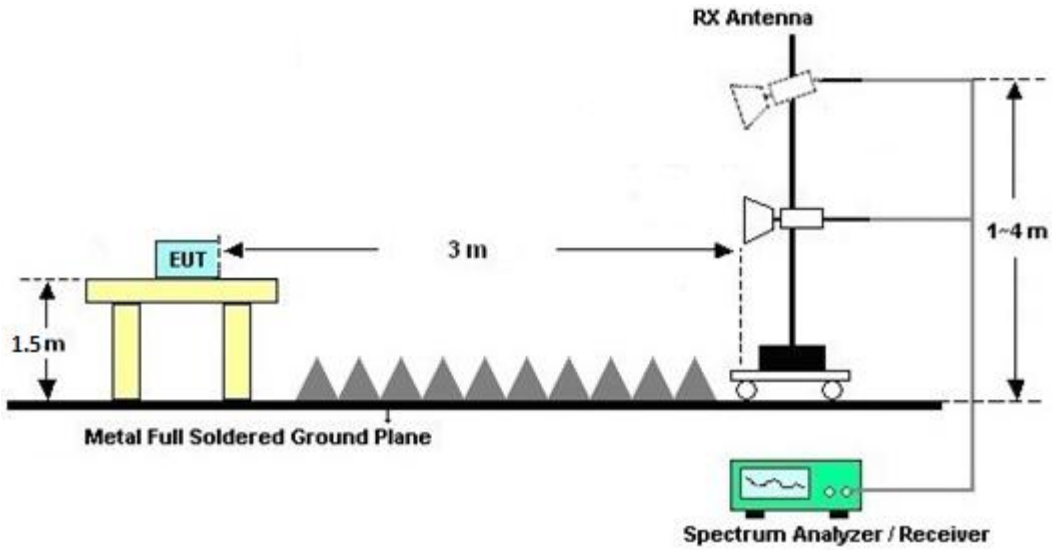


<TXBF Modes>

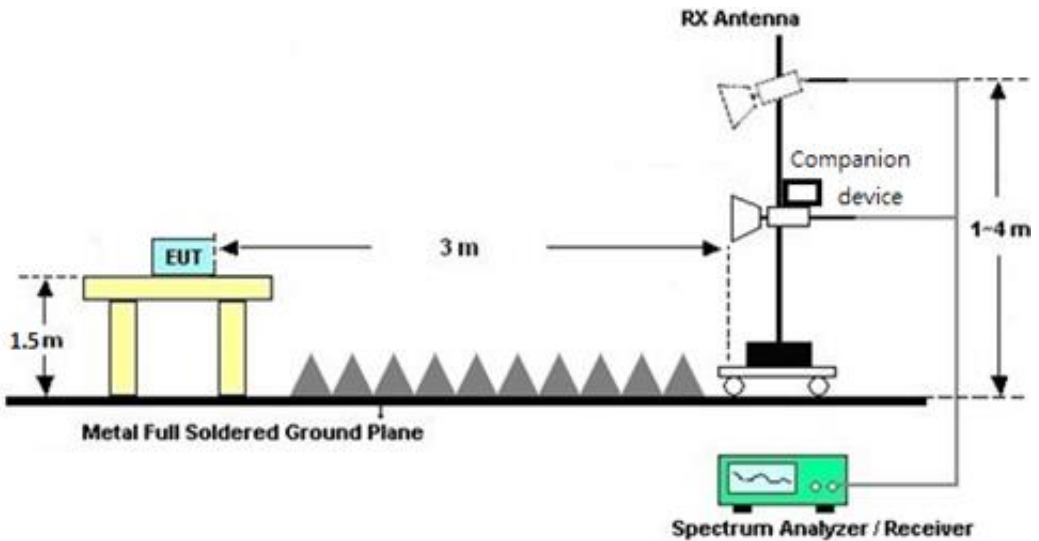


For radiated test from 1GHz to 18GHz

<CDD Mode>

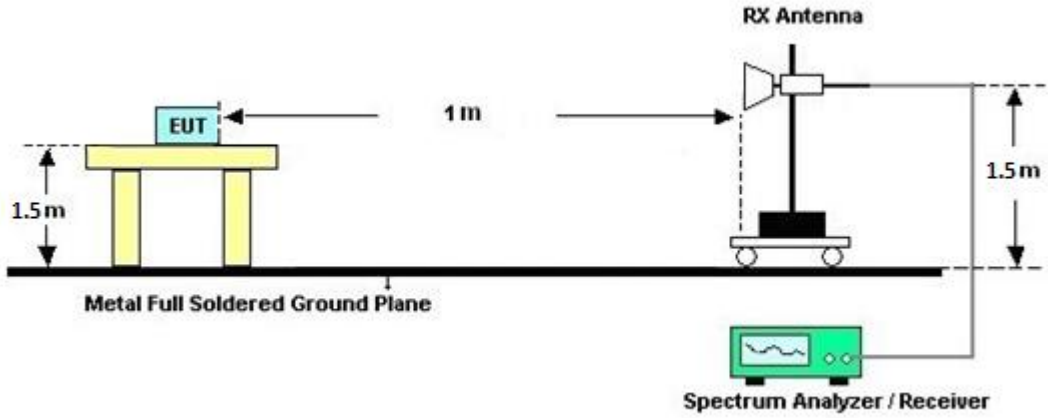


<TXBF Modes>

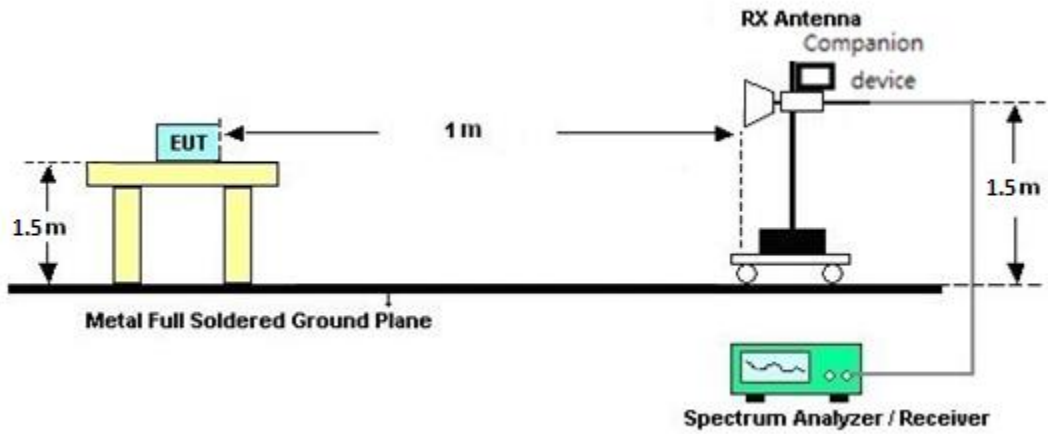


For radiated test above 18GHz

<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.

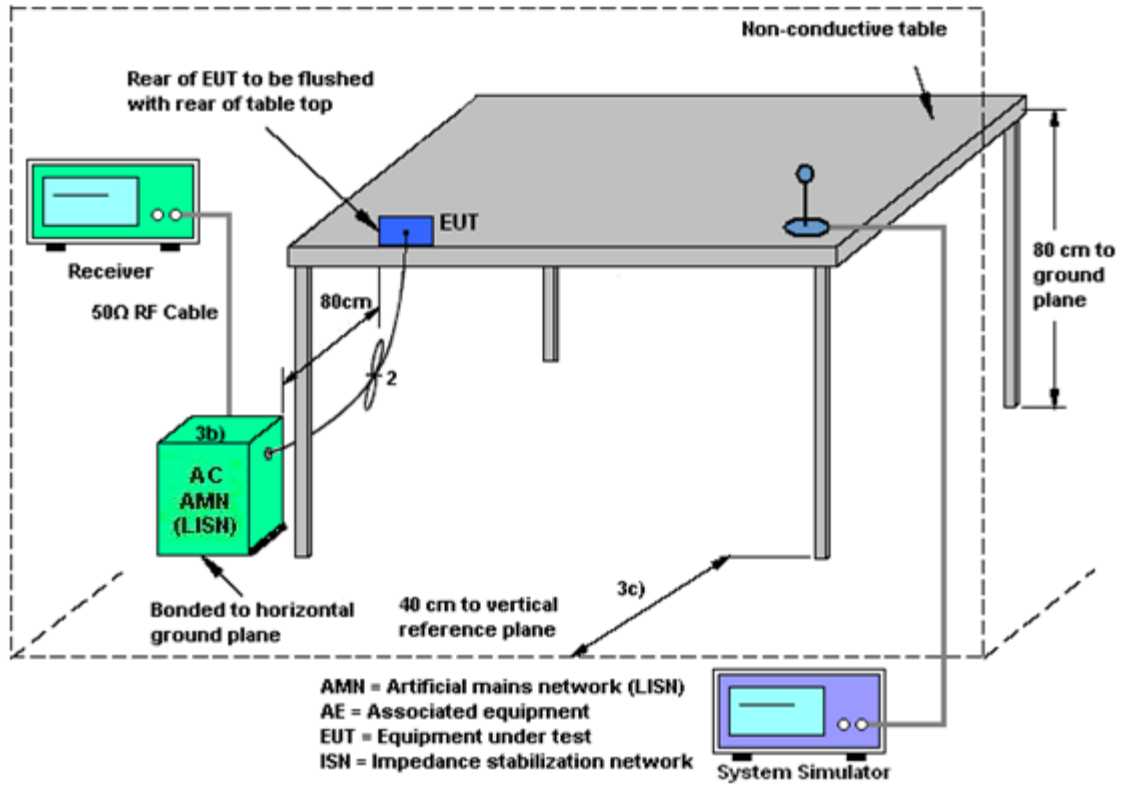
3.5.2 Measuring Instruments

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



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 peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.6.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

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

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

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

For power measurements on IEEE 802.11 devices,

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

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

The EUT supports CDD mode.

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

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

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

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

| <CDD Modes> | | | | | | | | |
|---------------|--------|--------|--------|--------|-------|-------|-----------|-----------|
| | | | | | DG | DG | Power | PSD |
| | Ant. 1 | Ant. 2 | Ant. 3 | Ant. 4 | for | for | Limit | Limit |
| | (dBi) | (dBi) | (dBi) | (dBi) | Power | PSD | Reduction | Reduction |
| | | | | | (dBi) | (dBi) | (dB) | (dB) |
| Band I | 3.00 | 2.80 | 2.40 | 2.30 | 3.00 | 8.65 | 0.00 | 2.65 |

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

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

TXBF modes

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

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

where

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

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

N_{ANT} = the total number of antennas

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

The EUT supports beamforming for 802.11ac modes.

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

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

The directional gain “DG” is calculated as following table.

| | | | | | DG | DG | Power | PSD |
|---------------|-------|-------|-------|-------|-------|-------|-----------|-----------|
| | Ant 1 | Ant 2 | Ant 3 | Ant 4 | for | for | Limit | Limit |
| | (dBi) | (dBi) | (dBi) | (dBi) | Power | PSD | Reduction | Reduction |
| | (dBi) | (dBi) | (dBi) | (dBi) | (dBi) | (dBi) | (dB) | (dB) |
| Band I | 3.00 | 2.80 | 2.40 | 2.30 | 8.65 | 8.65 | 2.65 | 2.65 |

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

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



4 List of Measuring Equipment

| Instrument | Brand Name | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|------------------------------|--------------------|-----------------------------------|---------------------------|-------------------------|------------------|---------------------------------|---------------|--------------------------|
| Loop Antenna | Rohde & Schwarz | HFH2-Z2 | 100315 | 9 kHz~30 MHz | Jan. 04, 2021 | Oct. 21, 2021~ Dec. 27, 2021 | Jan. 03, 2022 | Radiation (03CH07-HY) |
| Bilog Antenna | TESEQ | CBL 6111D & 00800N1D01N -06 | 35419 & 03 | 30MHz~1GHz | Apr. 28, 2021 | Oct. 21, 2021~ Dec. 27, 2021 | Apr. 27, 2022 | Radiation (03CH07-HY) |
| Double Ridge Horn Antenna | ESCO | 3117 | 00075962 | 1GHz ~ 18GHz | Dec. 01, 2020 | Oct. 21, 2021~ Nov. 28, 2021 | Nov. 30, 2021 | Radiation (03CH07-HY) |
| Horn Antenna | ESCO | 3117 | 00066584 | 1GHz~18GHz | Oct. 25, 2021 | Nov. 29, 2021~ Dec. 27, 2021 | Oct. 24, 2022 | Radiation (03CH07-HY) |
| SHF-EHF Horn Antenna | SCHWARZBE CK | BBHA 9170 | BBHA917025 1 | 18GHz~40GHz | Dec. 02, 2020 | Oct. 21, 2021~ Nov. 29, 2021 | Dec. 01, 2021 | Radiation (03CH07-HY) |
| SHF-EHF Horn Antenna | SCHWARZBE CK | BBHA 9170 | BBHA917025 1 | 18GHz~40GHz | Nov. 30, 2021 | Nov. 30, 2021~ Dec. 27, 2021 | Nov. 29, 2022 | Radiation (03CH07-HY) |
| Preamplifier | COM-POWER | PA-103A | 161241 | 10MHz~1GHz | Oct. 04, 2021 | Oct. 21, 2021~ Dec. 27, 2021 | Oct. 03, 2022 | Radiation (03CH07-HY) |
| Preamplifier | MITEQ | AMF-7D-0010 1800-30-10P | 1590075 | 1GHz~18GHz | Apr. 22, 2021 | Oct. 21, 2021~ Dec. 27, 2021 | Apr. 21, 2022 | Radiation (03CH07-HY) |
| Preamplifier | Agilent | 8449B | 3008A02362 | 1GHz~26.5GHz | Oct. 04, 2021 | Oct. 21, 2021~ Dec. 27, 2021 | Oct. 03, 2022 | Radiation (03CH07-HY) |
| Preamplifier | EMEC | EM18G40G | 0600789 | 18-40GHz | Jul. 23, 2021 | Oct. 21, 2021~ Dec. 27, 2021 | Jul. 22, 2022 | Radiation (03CH07-HY) |
| Spectrum Analyzer | Agilent | N9030A | MY52350276 | 3Hz~44GHz | Jul. 22, 2021 | Oct. 21, 2021~ Dec. 27, 2021 | Jul. 21, 2022 | Radiation (03CH07-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 104 | MY15682-4 | 30MHz to 18GHz | Feb. 24, 2021 | Oct. 21, 2021~ Dec. 27, 2021 | Feb. 23, 2022 | Radiation (03CH07-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 104 | MY24971-4 | 9kHz to 18GHz | Feb. 24, 2021 | Oct. 21, 2021~ Dec. 27, 2021 | Feb. 23, 2022 | Radiation (03CH07-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 104 | MY28655-4 | 9kHz to 18GHz | Feb. 24, 2021 | Oct. 21, 2021~ Dec. 27, 2021 | Feb. 23, 2022 | Radiation (03CH07-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 102 | MY2858/2,80 1606/2 | 18GHz~40GHz | Feb. 24, 2021 | Oct. 21, 2021~ Dec. 27, 2021 | Feb. 23, 2022 | Radiation (03CH07-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 126 | 532078/126E | 30MHz~18GHz | Sep. 17, 2021 | Oct. 21, 2021~ Dec. 27, 2021 | Sep. 16, 2022 | Radiation (03CH07-HY) |
| Antenna Mast | EMEC | AM-BS-4500E | N/A | Boresight mast 1M~4M | N/A | Oct. 21, 2021~ Dec. 27, 2021 | N/A | Radiation (03CH07-HY) |
| Turn Table | ChainTek | Chaintek 3000 | N/A | 0~360 Degree | N/A | Oct. 21, 2021~ Dec. 27, 2021 | N/A | Radiation (03CH07-HY) |
| Software | Audix | E3 6.2009-8-24 | N/A | N/A | N/A | Oct. 21, 2021~ Dec. 27, 2021 | N/A | Radiation (03CH07-HY) |
| USB Data Logger | TECPEL | TR-32 | HE17XB2495 | N/A | Mar. 09, 2021 | Oct. 21, 2021~ Dec. 27, 2021 | Mar. 08, 2022 | Radiation (03CH07-HY) |
| Power Sensor | DARE | RPR3006W | 13100030SNO 31(NO:182) | 10MHz~6GHz | Dec. 30, 2020 | Nov. 11, 2021 Dec. 22, 2021 | Dec. 29, 2021 | Conducted (TH05-HY) |
| Power Sensor | DARE | RPR3006W #010 | RPR6W-2101 002(NO:123) | 10MHz~8GHz | Feb. 03, 2021 | Dec. 08, 2021 Dec. 30, 2021 | Feb. 02, 2022 | Conducted (TH05-HY) |
| Signal Analyzer | Rohde & Schwarz | FSV40 | 101566 | 10Hz~40GHz | Aug. 30, 2021 | Nov. 11, 2021 Dec. 30, 2021 | Aug. 29, 2022 | Conducted (TH05-HY) |
| Switch Box & RF Cable | EM Electronics | EMSW18SE | SW191204 (BOX8) | N/A | Jan. 07, 2021 | Nov. 11, 2021 Dec. 30, 2021 | Jan. 06, 2022 | Conducted (TH05-HY) |



| Instrument | Brand Name | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|-------------------|-----------------|--------------|------------|-----------------|------------------|---------------|---------------|----------------------|
| AC Power Source | ChainTek | APC-1000W | N/A | N/A | N/A | Dec. 14, 2021 | N/A | Conduction (CO05-HY) |
| EMI Test Receiver | Rohde & Schwarz | ESR3 | 102388 | 9kHz~3.6GHz | Dec. 01, 2021 | Dec. 14, 2021 | Nov. 30, 2022 | Conduction (CO05-HY) |
| LISN | Rohde & Schwarz | ENV216 | 100080 | 9kHz~30MHz | Dec. 03, 2021 | Dec. 14, 2021 | Dec. 02, 2022 | Conduction (CO05-HY) |
| Software | Rohde & Schwarz | EMC32 | N/A | N/A | N/A | Dec. 14, 2021 | N/A | Conduction (CO05-HY) |
| Pulse Limiter | SCHWARZBECK | VTSD 9561-FN | 00691 | N/A | Jul. 28, 2021 | Dec. 14, 2021 | Jul. 27, 2022 | Conduction (CO05-HY) |
| LISN Cable | MVE | RG-400 | 260260 | N/A | Dec. 31, 2020 | Dec. 14, 2021 | Dec. 30, 2021 | Conduction (CO05-HY) |



5 Uncertainty of Evaluation

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

| | |
|---|--------|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 3.1 dB |
|---|--------|

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

| | |
|---|--------|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 5.1 dB |
|---|--------|

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

| | |
|---|--------|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 5.8 dB |
|---|--------|

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

| | |
|---|--------|
| Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y)) | 4.0 dB |
|---|--------|

Appendix A. Test Result of Conducted Test Items

<CDD Mode>

| | | | | |
|---------------|-----------------------|-------------------|-------|----|
| Test Engineer | Eason Huang | Temperature | 21~24 | °C |
| Test Date | 2021/11/11~2021/12/22 | Relative Humidity | 52~56 | % |

TEST RESULTS DATA
26dB and 99% OBW

| Band I MIMO 4Tx Mode Ant 1 + 2 + 3 + 4 | | | | | | | | | | | | | |
|--|-----------|-----|-----|-------------|-----------------------|-------|-------|-------|---------------------|-------|-------|-------|-----------------------------------|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | 26 dB Bandwidth (MHz) | | | | 99% Bandwidth (MHz) | | | | IC 99% Bandwidth EIRP Limit (dBm) |
| | | | | | Ant 1 | Ant 2 | Ant 3 | Ant 4 | Ant 1 | Ant 2 | Ant 3 | Ant 4 | Ant 1 + 2 + 3 + 4 |
| 11a | 6Mbps | 4 | 36 | 5180 | 19.75 | 19.53 | 19.93 | 19.48 | 16.43 | 16.43 | 16.43 | 16.43 | 22.16 |
| 11a | 6Mbps | 4 | 44 | 5220 | 19.45 | 19.73 | 19.73 | 19.58 | 16.38 | 16.43 | 16.48 | 16.43 | 22.14 |
| 11a | 6Mbps | 4 | 48 | 5240 | 19.88 | 19.58 | 20.03 | 19.40 | 16.43 | 16.43 | 16.43 | 16.43 | 22.16 |

TEST RESULTS DATA
Average Power Table

| FCC Band I MIMO 4Tx Mode Ant 1 + 2 + 3 + 4 | | | | | | | | | | | | |
|--|-----------|-----|-----|-------------|-------------------------------|-------|-------|-------|-------|-----------------------|-------------------|------------|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Average Conducted Power (dBm) | | | | | FCC Power Limit (dBm) | DG (dBi) | Pass /Fail |
| | | | | | Ant 1 | Ant 2 | Ant 3 | Ant 4 | SUM | Ant 1 + 2 + 3 + 4 | Ant 1 + 2 + 3 + 4 | |
| 11a | 6Mbps | 4 | 36 | 5180 | 18.40 | 19.10 | 18.20 | 18.70 | 24.63 | 30.00 | 3.00 | Pass |
| 11a | 6Mbps | 4 | 44 | 5220 | 17.70 | 17.90 | 17.20 | 17.50 | 23.60 | 30.00 | 3.00 | Pass |
| 11a | 6Mbps | 4 | 48 | 5240 | 17.80 | 18.30 | 17.60 | 17.50 | 23.83 | 30.00 | 3.00 | Pass |
| HT20 | MCS0 | 4 | 36 | 5180 | 18.30 | 19.00 | 18.20 | 18.40 | 24.51 | 30.00 | 3.00 | Pass |
| HT20 | MCS0 | 4 | 44 | 5220 | 18.10 | 18.10 | 17.60 | 17.70 | 23.90 | 30.00 | 3.00 | Pass |
| HT20 | MCS0 | 4 | 48 | 5240 | 17.70 | 18.10 | 17.70 | 17.50 | 23.78 | 30.00 | 3.00 | Pass |
| HT40 | MCS0 | 4 | 38 | 5190 | 17.60 | 18.30 | 17.20 | 17.80 | 23.76 | 30.00 | 3.00 | Pass |
| HT40 | MCS0 | 4 | 46 | 5230 | 19.00 | 19.20 | 18.80 | 18.50 | 24.90 | 30.00 | 3.00 | Pass |
| VHT20 | MCS0 | 4 | 36 | 5180 | 18.30 | 19.00 | 18.20 | 18.40 | 24.51 | 30.00 | 3.00 | Pass |
| VHT20 | MCS0 | 4 | 44 | 5220 | 18.10 | 18.10 | 17.60 | 17.70 | 23.90 | 30.00 | 3.00 | Pass |
| VHT20 | MCS0 | 4 | 48 | 5240 | 17.70 | 18.10 | 17.70 | 17.50 | 23.78 | 30.00 | 3.00 | Pass |
| VHT40 | MCS0 | 4 | 38 | 5190 | 17.60 | 18.30 | 17.20 | 17.80 | 23.76 | 30.00 | 3.00 | Pass |
| VHT40 | MCS0 | 4 | 46 | 5230 | 19.00 | 19.20 | 18.80 | 18.50 | 24.90 | 30.00 | 3.00 | Pass |
| VHT80 | MCS0 | 4 | 42 | 5210 | 16.00 | 16.40 | 15.90 | 16.10 | 22.12 | 30.00 | 3.00 | Pass |

TEST RESULTS DATA
Power Spectral Density

| FCC Band I MIMO 4Tx Mode Ant 1 + 2 + 3 + 4 | | | | | | | | |
|--|-----------|-----------------|-----|-------------|---------------------------------|-----------------------------|-------------------|------------|
| Mod. | Data Rate | N _{Tx} | CH. | Freq. (MHz) | Average Power Density (dBm/MHz) | Average PSD Limit (dBm/MHz) | DG (dBi) | Pass /Fail |
| | | | | | Ant 1 + 2 + 3 + 4 | Ant 1 + 2 + 3 + 4 | Ant 1 + 2 + 3 + 4 | |
| 11a | 6Mbps | 4 | 36 | 5180 | 13.50 | 14.35 | 8.65 | Pass |
| 11a | 6Mbps | 4 | 44 | 5220 | 12.54 | 14.35 | 8.65 | Pass |
| 11a | 6Mbps | 4 | 48 | 5240 | 12.74 | 14.35 | 8.65 | Pass |

TEST RESULTS DATA
26dB and 99% OBW

| Band I MIMO 4Tx Mode Ant 1 + 2 + 3 + 4 | | | | | | | | | | | | | | |
|--|-----------|-----|-----|-------------|---------|-----------------------|-------|-------|-------|---------------------|-------|-------|-------|-----------------------------------|
| Mod. | Data Rate | NTx | CH. | Freq. (MHz) | RU tone | 26 dB Bandwidth (MHz) | | | | 99% Bandwidth (MHz) | | | | IC 99% Bandwidth EIRP Limit (dBm) |
| | | | | | | Ant 1 | Ant 2 | Ant 3 | Ant 4 | Ant 1 | Ant 2 | Ant 3 | Ant 4 | Ant 1 + 2 + 3 + 4 |
| HE20 | MCS0 | 4 | 36 | 5180 | Full | 21.48 | 21.13 | 21.63 | 21.13 | 18.93 | 18.93 | 18.93 | 18.93 | 22.77 |
| HE20 | MCS0 | 4 | 36 | 5180 | M | 23.20 | 22.80 | 22.68 | 24.55 | 19.13 | 19.13 | 19.13 | 19.18 | 22.82 |
| HE20 | MCS0 | 4 | 36 | 5180 | BE | 20.03 | 20.63 | 20.55 | 19.93 | 17.33 | 17.38 | 17.38 | 17.38 | 22.39 |
| HE20 | MCS0 | 4 | 44 | 5220 | Full | 21.28 | 21.30 | 21.60 | 21.28 | 18.93 | 18.88 | 18.93 | 18.93 | 22.76 |
| HE20 | MCS0 | 4 | 44 | 5220 | M | 23.28 | 23.30 | 24.20 | 22.75 | 19.13 | 19.08 | 19.18 | 19.08 | 22.81 |
| HE20 | MCS0 | 4 | 44 | 5220 | BE | 19.63 | 20.83 | 19.93 | 20.95 | 17.38 | 17.38 | 17.38 | 17.33 | 22.39 |
| HE20 | MCS0 | 4 | 48 | 5240 | Full | 21.28 | 21.23 | 21.53 | 21.13 | 18.93 | 18.88 | 18.98 | 18.88 | 22.76 |
| HE20 | MCS0 | 4 | 48 | 5240 | M | 23.48 | 23.13 | 24.10 | 23.00 | 19.08 | 19.08 | 19.08 | 19.13 | 22.81 |
| HE20 | MCS0 | 4 | 48 | 5240 | BE | 19.95 | 20.83 | 19.53 | 20.25 | 17.33 | 17.38 | 17.38 | 17.33 | 22.39 |
| HE40 | MCS0 | 4 | 38 | 5190 | Full | 40.64 | 40.68 | 41.04 | 40.77 | 37.96 | 37.96 | 38.06 | 38.06 | 23.01 |
| HE40 | MCS0 | 4 | 38 | 5190 | M | 44.42 | 43.25 | 44.33 | 43.38 | 38.76 | 38.86 | 38.96 | 38.86 | 23.01 |
| HE40 | MCS0 | 4 | 38 | 5190 | BE | 40.10 | 42.44 | 40.10 | 40.14 | 37.06 | 37.56 | 37.36 | 37.16 | 23.01 |
| HE40 | MCS0 | 4 | 46 | 5230 | Full | 40.46 | 40.73 | 41.90 | 40.32 | 37.96 | 37.96 | 38.06 | 38.06 | 23.01 |
| HE40 | MCS0 | 4 | 46 | 5230 | M | 43.97 | 43.34 | 43.47 | 43.70 | 38.86 | 38.86 | 39.06 | 38.76 | 23.01 |
| HE40 | MCS0 | 4 | 46 | 5230 | BE | 40.55 | 42.08 | 41.27 | 39.87 | 37.06 | 37.46 | 37.16 | 37.06 | 23.01 |
| HE80 | MCS0 | 4 | 42 | 5210 | Full | 82.16 | 82.72 | 82.72 | 82.56 | 77.20 | 77.32 | 77.20 | 77.20 | 23.01 |
| HE80 | MCS0 | 4 | 42 | 5210 | M | 89.44 | 88.96 | 88.56 | 89.20 | 78.16 | 78.28 | 78.40 | 78.28 | 23.01 |
| HE80 | MCS0 | 4 | 42 | 5210 | BE | 85.76 | 86.32 | 99.52 | 84.88 | 76.36 | 76.48 | 76.48 | 76.24 | 23.01 |

TEST RESULTS DATA
Average Power Table

| FCC Band I MIMO 4Tx Mode Ant 1 + 2 + 3 + 4 | | | | | | | | | | | | | |
|--|-----------|-----|-----|-------------|---------|-------------------------------|-------|-------|-------|-------|-----------------------|-------------------|------------|
| Mod. | Data Rate | Ntx | CH. | Freq. (MHz) | RU tone | Average Conducted Power (dBm) | | | | | FCC Power Limit (dBm) | DG (dBi) | Pass /Fail |
| | | | | | | Ant 1 | Ant 2 | Ant 3 | Ant 4 | SUM | Ant 1 + 2 + 3 + 4 | Ant 1 + 2 + 3 + 4 | |
| HE20 | MCS0 | 4 | 36 | 5180 | Full | 18.40 | 19.10 | 18.30 | 18.50 | 24.61 | 30.00 | 3.00 | Pass |
| HE20 | MCS0 | 4 | 36 | 5180 | M | 15.20 | 16.10 | 15.10 | 15.60 | 21.54 | 30.00 | 3.00 | Pass |
| HE20 | MCS0 | 4 | 36 | 5180 | BE | 16.70 | 17.20 | 16.40 | 16.80 | 22.81 | 30.00 | 3.00 | Pass |
| HE20 | MCS0 | 4 | 44 | 5220 | Full | 18.20 | 18.20 | 17.70 | 17.80 | 24.00 | 30.00 | 3.00 | Pass |
| HE20 | MCS0 | 4 | 44 | 5220 | M | 15.10 | 15.20 | 14.60 | 14.60 | 20.90 | 30.00 | 3.00 | Pass |
| HE20 | MCS0 | 4 | 44 | 5220 | BE | 16.40 | 16.30 | 15.90 | 16.20 | 22.22 | 30.00 | 3.00 | Pass |
| HE20 | MCS0 | 4 | 48 | 5240 | Full | 17.80 | 18.20 | 17.80 | 17.60 | 23.88 | 30.00 | 3.00 | Pass |
| HE20 | MCS0 | 4 | 48 | 5240 | M | 15.10 | 15.30 | 14.80 | 14.80 | 21.03 | 30.00 | 3.00 | Pass |
| HE20 | MCS0 | 4 | 48 | 5240 | BE | 15.50 | 15.50 | 15.30 | 15.30 | 21.42 | 30.00 | 3.00 | Pass |
| HE40 | MCS0 | 4 | 38 | 5190 | Full | 17.70 | 18.40 | 17.30 | 17.90 | 23.86 | 30.00 | 3.00 | Pass |
| HE40 | MCS0 | 4 | 38 | 5190 | M | 13.30 | 14.10 | 13.00 | 13.80 | 19.59 | 30.00 | 3.00 | Pass |
| HE40 | MCS0 | 4 | 38 | 5190 | BE | 16.80 | 17.70 | 16.50 | 17.20 | 23.09 | 30.00 | 3.00 | Pass |
| HE40 | MCS0 | 4 | 46 | 5230 | Full | 19.10 | 19.30 | 18.90 | 18.60 | 25.00 | 30.00 | 3.00 | Pass |
| HE40 | MCS0 | 4 | 46 | 5230 | M | 16.40 | 16.60 | 16.10 | 16.10 | 22.33 | 30.00 | 3.00 | Pass |
| HE40 | MCS0 | 4 | 46 | 5230 | BE | 17.20 | 17.30 | 16.80 | 16.90 | 23.08 | 30.00 | 3.00 | Pass |
| HE80 | MCS0 | 4 | 42 | 5210 | Full | 16.10 | 16.50 | 16.00 | 16.20 | 22.22 | 30.00 | 3.00 | Pass |
| HE80 | MCS0 | 4 | 42 | 5210 | M | 13.40 | 13.90 | 13.30 | 13.50 | 19.55 | 30.00 | 3.00 | Pass |
| HE80 | MCS0 | 4 | 42 | 5210 | BE | 15.20 | 15.80 | 14.90 | 15.00 | 21.26 | 30.00 | 3.00 | Pass |

TEST RESULTS DATA
Power Spectral Density

| FCC Band I MIMO 4Tx Mode Ant 1 + 2 + 3 + 4 | | | | | | | | | |
|--|-----------|-----|-----|-------------|---------|---------------------------------|-----------------------------|-------------------|------------|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | RU tone | Average Power Density (dBm/MHz) | Average PSD Limit (dBm/MHz) | DG (dBi) | Pass /Fail |
| | | | | | | Ant 1 + 2 + 3 + 4 | Ant 1 + 2 + 3 + 4 | Ant 1 + 2 + 3 + 4 | |
| HE20 | MCS0 | 4 | 36 | 5180 | Full | 13.34 | 14.35 | 8.65 | Pass |
| HE20 | MCS0 | 4 | 36 | 5180 | M | 12.03 | 14.35 | 8.65 | Pass |
| HE20 | MCS0 | 4 | 36 | 5180 | BE | 14.33 | 14.35 | 8.65 | Pass |
| HE20 | MCS0 | 4 | 44 | 5220 | Full | 12.84 | 14.35 | 8.65 | Pass |
| HE20 | MCS0 | 4 | 44 | 5220 | M | 11.74 | 14.35 | 8.65 | Pass |
| HE20 | MCS0 | 4 | 44 | 5220 | BE | 14.12 | 14.35 | 8.65 | Pass |
| HE20 | MCS0 | 4 | 48 | 5240 | Full | 12.91 | 14.35 | 8.65 | Pass |
| HE20 | MCS0 | 4 | 48 | 5240 | M | 11.90 | 14.35 | 8.65 | Pass |
| HE20 | MCS0 | 4 | 48 | 5240 | BE | 13.26 | 14.35 | 8.65 | Pass |
| HE40 | MCS0 | 4 | 38 | 5190 | Full | 10.04 | 14.35 | 8.65 | Pass |
| HE40 | MCS0 | 4 | 38 | 5190 | M | 8.58 | 14.35 | 8.65 | Pass |
| HE40 | MCS0 | 4 | 38 | 5190 | BE | 11.68 | 14.35 | 8.65 | Pass |
| HE40 | MCS0 | 4 | 46 | 5230 | Full | 11.28 | 14.35 | 8.65 | Pass |
| HE40 | MCS0 | 4 | 46 | 5230 | M | 11.42 | 14.35 | 8.65 | Pass |
| HE40 | MCS0 | 4 | 46 | 5230 | BE | 11.92 | 14.35 | 8.65 | Pass |
| HE80 | MCS0 | 4 | 42 | 5210 | Full | 5.01 | 14.35 | 8.65 | Pass |
| HE80 | MCS0 | 4 | 42 | 5210 | M | 5.65 | 14.35 | 8.65 | Pass |
| HE80 | MCS0 | 4 | 42 | 5210 | BE | 6.50 | 14.35 | 8.65 | Pass |

<TXBF Mode>

| | | | | |
|---------------|-----------------------|-------------------|-------|----|
| Test Engineer | Hank Hsu | Temperature | 21~24 | °C |
| Test Date | 2021/12/08~2021/12/30 | Relative Humidity | 52~56 | % |

TEST RESULTS DATA
Average Power Table

| FCC Band I MIMO 4Tx Mode Ant 1 + 2 + 3 + 4 | | | | | | | | | | | | |
|--|-----------|-----|-----|-------------|-------------------------------|-------|-------|-------|-------|-----------------------|-------------------|------------|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Average Conducted Power (dBm) | | | | | FCC Power Limit (dBm) | DG (dBi) | Pass /Fail |
| | | | | | Ant 1 | Ant 2 | Ant 3 | Ant 4 | SUM | Ant 1 + 2 + 3 + 4 | Ant 1 + 2 + 3 + 4 | |
| HT20 | MCS0 | 4 | 36 | 5180 | 17.70 | 17.70 | 17.70 | 17.60 | 23.70 | 27.35 | 8.65 | Pass |
| HT20 | MCS0 | 4 | 44 | 5220 | 17.60 | 17.80 | 17.10 | 17.30 | 23.48 | 27.35 | 8.65 | Pass |
| HT20 | MCS0 | 4 | 48 | 5240 | 17.80 | 17.80 | 17.90 | 17.50 | 23.77 | 27.35 | 8.65 | Pass |
| HT40 | MCS0 | 4 | 38 | 5190 | 17.10 | 17.00 | 16.40 | 16.80 | 22.85 | 27.35 | 8.65 | Pass |
| HT40 | MCS0 | 4 | 46 | 5230 | 17.80 | 17.90 | 17.50 | 17.40 | 23.68 | 27.35 | 8.65 | Pass |
| VHT20 | MCS0 | 4 | 36 | 5180 | 17.70 | 17.70 | 17.70 | 17.60 | 23.70 | 27.35 | 8.65 | Pass |
| VHT20 | MCS0 | 4 | 44 | 5220 | 17.60 | 17.80 | 17.10 | 17.30 | 23.48 | 27.35 | 8.65 | Pass |
| VHT20 | MCS0 | 4 | 48 | 5240 | 17.80 | 17.80 | 17.90 | 17.50 | 23.77 | 27.35 | 8.65 | Pass |
| VHT40 | MCS0 | 4 | 38 | 5190 | 17.10 | 17.00 | 16.40 | 16.80 | 22.85 | 27.35 | 8.65 | Pass |
| VHT40 | MCS0 | 4 | 46 | 5230 | 17.80 | 17.90 | 17.50 | 17.40 | 23.68 | 27.35 | 8.65 | Pass |
| VHT80 | MCS0 | 4 | 42 | 5210 | 15.30 | 15.20 | 14.30 | 15.00 | 20.99 | 27.35 | 8.65 | Pass |

TEST RESULTS DATA
26dB and 99% OBW

| Band I MIMO 4Tx Mode Ant 1 + 2 + 3 + 4 | | | | | | | | | | | | | | |
|--|-----------|-----|-----|-------------|---------|-----------------------|-------|-------|-------|---------------------|-------|-------|-------|-----------------------------------|
| Mod. | Data Rate | NTx | CH. | Freq. (MHz) | RU tone | 26 dB Bandwidth (MHz) | | | | 99% Bandwidth (MHz) | | | | IC 99% Bandwidth EIRP Limit (dBm) |
| | | | | | | Ant 1 | Ant 2 | Ant 3 | Ant 4 | Ant 1 | Ant 2 | Ant 3 | Ant 4 | Ant 1 + 2 + 3 + 4 |
| HE20 | MCS0 | 4 | 36 | 5180 | Full | 20.85 | 20.85 | 21.35 | 20.95 | 17.58 | 17.63 | 17.63 | 17.58 | 22.45 |
| HE20 | MCS0 | 4 | 44 | 5220 | Full | 20.95 | 20.80 | 21.10 | 21.00 | 17.63 | 17.58 | 17.63 | 17.63 | 22.45 |
| HE20 | MCS0 | 4 | 48 | 5240 | Full | 21.05 | 20.75 | 21.60 | 20.95 | 17.58 | 17.63 | 17.63 | 17.63 | 22.45 |
| HE40 | MCS0 | 4 | 38 | 5190 | Full | 39.33 | 39.24 | 39.78 | 39.33 | 36.36 | 36.36 | 36.36 | 36.36 | 23.01 |
| HE40 | MCS0 | 4 | 46 | 5230 | Full | 39.51 | 39.87 | 39.96 | 39.06 | 36.36 | 36.36 | 36.46 | 36.36 | 23.01 |
| HE80 | MCS0 | 4 | 42 | 5210 | Full | 80.64 | 80.64 | 81.12 | 81.12 | 75.64 | 75.76 | 75.64 | 76.00 | 23.01 |

TEST RESULTS DATA
Average Power Table

| FCC Band I MIMO 4Tx Mode Ant 1 + 2 + 3 + 4 | | | | | | | | | | | | | |
|--|-----------|-----|-----|-------------|---------|-------------------------------|-------|-------|-------|-------|-----------------------|-------------------|------------|
| Mod. | Data Rate | NTx | CH. | Freq. (MHz) | RU tone | Average Conducted Power (dBm) | | | | | FCC Power Limit (dBm) | DG (dBi) | Pass /Fail |
| | | | | | | Ant 1 | Ant 2 | Ant 3 | Ant 4 | SUM | Ant 1 + 2 + 3 + 4 | Ant 1 + 2 + 3 + 4 | |
| HE20 | MCS0 | 4 | 36 | 5180 | Full | 17.80 | 17.80 | 17.80 | 17.70 | 23.80 | 27.35 | 8.65 | Pass |
| HE20 | MCS0 | 4 | 44 | 5220 | Full | 17.70 | 17.90 | 17.20 | 17.40 | 23.58 | 27.35 | 8.65 | Pass |
| HE20 | MCS0 | 4 | 48 | 5240 | Full | 17.90 | 17.90 | 18.00 | 17.60 | 23.87 | 27.35 | 8.65 | Pass |
| HE40 | MCS0 | 4 | 38 | 5190 | Full | 17.20 | 17.10 | 16.50 | 16.90 | 22.95 | 27.35 | 8.65 | Pass |
| HE40 | MCS0 | 4 | 46 | 5230 | Full | 17.90 | 18.00 | 17.60 | 17.50 | 23.78 | 27.35 | 8.65 | Pass |
| HE80 | MCS0 | 4 | 42 | 5210 | Full | 15.40 | 15.30 | 14.40 | 15.10 | 21.09 | 27.35 | 8.65 | Pass |

TEST RESULTS DATA
Power Spectral Density

| FCC Band I MIMO 4Tx Mode Ant 1 + 2 + 3 + 4 | | | | | | | | | |
|--|-----------|-----|-----|-------------|---------|---------------------------------|-----------------------------|-------------------|------------|
| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | RU tone | Average Power Density (dBm/MHz) | Average PSD Limit (dBm/MHz) | DG (dBi) | Pass /Fail |
| | | | | | | Ant 1 + 2 + 3 + 4 | Ant 1 + 2 + 3 + 4 | Ant 1 + 2 + 3 + 4 | |
| HE20 | MCS0 | 4 | 36 | 5180 | Full | 13.03 | 14.35 | 8.65 | Pass |
| HE20 | MCS0 | 4 | 44 | 5220 | Full | 12.97 | 14.35 | 8.65 | Pass |
| HE20 | MCS0 | 4 | 48 | 5240 | Full | 13.37 | 14.35 | 8.65 | Pass |
| HE40 | MCS0 | 4 | 38 | 5190 | Full | 11.39 | 14.35 | 8.65 | Pass |
| HE40 | MCS0 | 4 | 46 | 5230 | Full | 12.85 | 14.35 | 8.65 | Pass |
| HE80 | MCS0 | 4 | 42 | 5210 | Full | 9.40 | 14.35 | 8.65 | Pass |



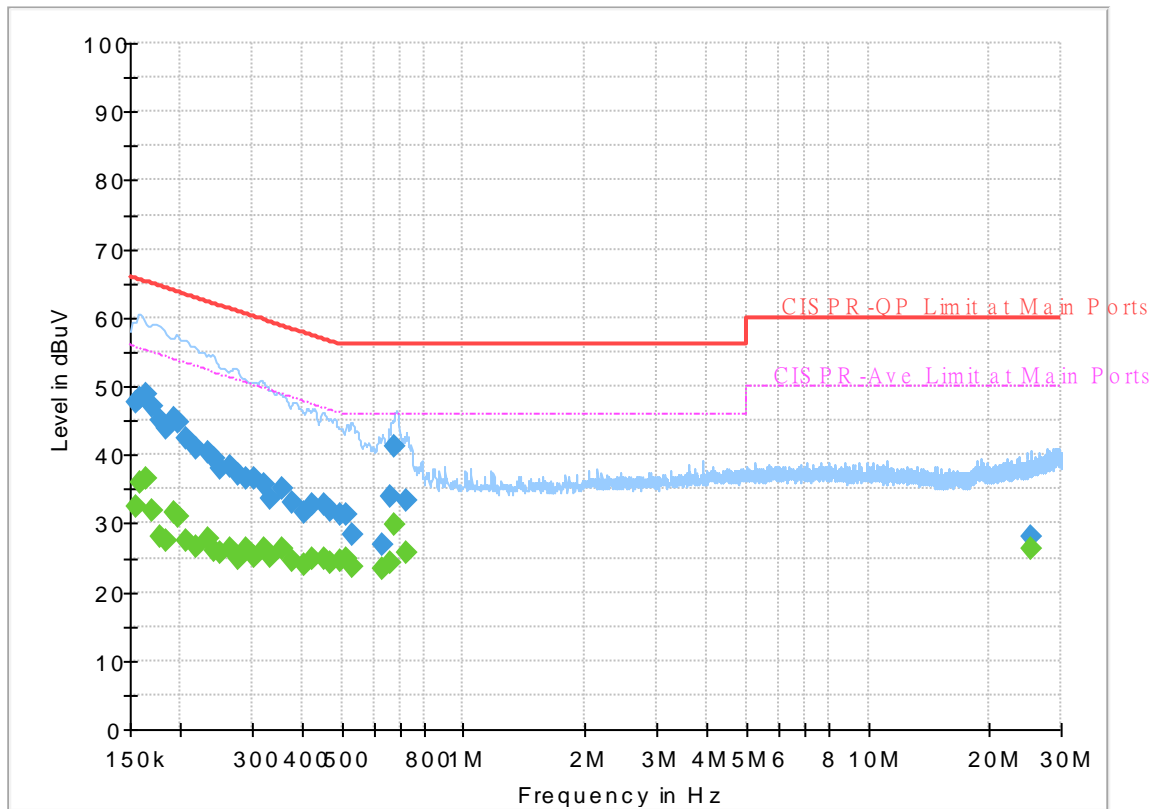
Appendix B. AC Conducted Emission Test Results

| | | | |
|-----------------|-------------|---------------------|---------|
| Test Engineer : | Calvin Wang | Temperature : | 23~26°C |
| | | Relative Humidity : | 45~55% |

EUT Information

Report NO : 100638
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Line

Full Spectrum



Final_Result

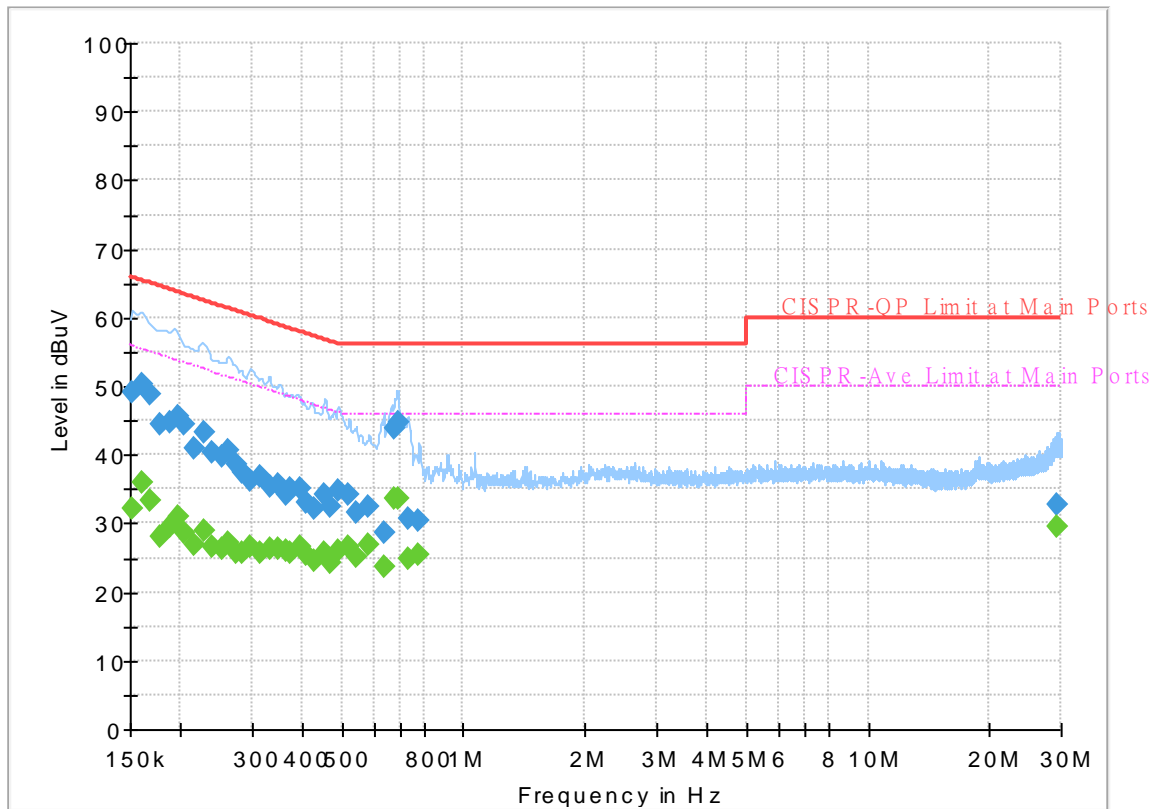
| Frequency (MHz) | QuasiPeak (dBuV) | CAverage (dBuV) | Limit (dBuV) | Margin (dB) | Line | Filter | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|------|--------|------------|
| 0.154500 | --- | 32.41 | 55.75 | 23.34 | L1 | OFF | 19.6 |
| 0.154500 | 47.70 | --- | 65.75 | 18.05 | L1 | OFF | 19.6 |
| 0.159000 | --- | 35.89 | 55.52 | 19.63 | L1 | OFF | 19.6 |
| 0.159000 | 48.32 | --- | 65.52 | 17.20 | L1 | OFF | 19.6 |
| 0.163500 | --- | 36.68 | 55.28 | 18.60 | L1 | OFF | 19.6 |
| 0.163500 | 48.80 | --- | 65.28 | 16.48 | L1 | OFF | 19.6 |
| 0.170250 | --- | 32.00 | 54.95 | 22.95 | L1 | OFF | 19.6 |
| 0.170250 | 46.95 | --- | 64.95 | 18.00 | L1 | OFF | 19.6 |
| 0.177000 | --- | 28.04 | 54.63 | 26.59 | L1 | OFF | 19.6 |
| 0.177000 | 44.96 | --- | 64.63 | 19.67 | L1 | OFF | 19.6 |
| 0.183750 | --- | 27.46 | 54.31 | 26.85 | L1 | OFF | 19.6 |
| 0.183750 | 43.72 | --- | 64.31 | 20.59 | L1 | OFF | 19.6 |
| 0.192750 | --- | 31.47 | 53.92 | 22.45 | L1 | OFF | 19.6 |
| 0.192750 | 45.37 | --- | 63.92 | 18.55 | L1 | OFF | 19.6 |
| 0.197250 | --- | 31.09 | 53.73 | 22.64 | L1 | OFF | 19.6 |
| 0.197250 | 44.77 | --- | 63.73 | 18.96 | L1 | OFF | 19.6 |
| 0.206250 | --- | 27.41 | 53.36 | 25.95 | L1 | OFF | 19.6 |
| 0.206250 | 42.34 | --- | 63.36 | 21.02 | L1 | OFF | 19.6 |
| 0.217500 | --- | 26.52 | 52.91 | 26.39 | L1 | OFF | 19.6 |
| 0.217500 | 41.03 | --- | 62.91 | 21.88 | L1 | OFF | 19.6 |
| 0.233250 | --- | 27.74 | 52.33 | 24.59 | L1 | OFF | 19.6 |

| | | | | | | | |
|-----------|-------|-------|-------|-------|----|-----|------|
| 0.233250 | 40.33 | --- | 62.33 | 22.00 | L1 | OFF | 19.6 |
| 0.242250 | --- | 25.95 | 52.02 | 26.07 | L1 | OFF | 19.6 |
| 0.242250 | 39.38 | --- | 62.02 | 22.64 | L1 | OFF | 19.6 |
| 0.251250 | --- | 25.61 | 51.72 | 26.11 | L1 | OFF | 19.6 |
| 0.251250 | 37.88 | --- | 61.72 | 23.84 | L1 | OFF | 19.6 |
| 0.264750 | --- | 26.36 | 51.28 | 24.92 | L1 | OFF | 19.6 |
| 0.264750 | 38.42 | --- | 61.28 | 22.86 | L1 | OFF | 19.6 |
| 0.278250 | --- | 24.94 | 50.87 | 25.93 | L1 | OFF | 19.6 |
| 0.278250 | 37.10 | --- | 60.87 | 23.77 | L1 | OFF | 19.6 |
| 0.289500 | --- | 26.25 | 50.54 | 24.29 | L1 | OFF | 19.6 |
| 0.289500 | 36.64 | --- | 60.54 | 23.90 | L1 | OFF | 19.6 |
| 0.305250 | --- | 25.29 | 50.10 | 24.81 | L1 | OFF | 19.6 |
| 0.305250 | 36.62 | --- | 60.10 | 23.48 | L1 | OFF | 19.6 |
| 0.321000 | --- | 26.21 | 49.68 | 23.47 | L1 | OFF | 19.6 |
| 0.321000 | 35.64 | --- | 59.68 | 24.04 | L1 | OFF | 19.6 |
| 0.334500 | --- | 25.16 | 49.34 | 24.18 | L1 | OFF | 19.6 |
| 0.334500 | 33.57 | --- | 59.34 | 25.77 | L1 | OFF | 19.6 |
| 0.354750 | --- | 26.34 | 48.85 | 22.51 | L1 | OFF | 19.6 |
| 0.354750 | 35.03 | --- | 58.85 | 23.82 | L1 | OFF | 19.6 |
| 0.377250 | --- | 24.59 | 48.34 | 23.75 | L1 | OFF | 19.6 |
| 0.377250 | 33.04 | --- | 58.34 | 25.30 | L1 | OFF | 19.6 |
| 0.404250 | --- | 24.06 | 47.77 | 23.71 | L1 | OFF | 19.6 |
| 0.404250 | 31.51 | --- | 57.77 | 26.26 | L1 | OFF | 19.6 |
| 0.424500 | --- | 24.93 | 47.36 | 22.43 | L1 | OFF | 19.7 |
| 0.424500 | 32.72 | --- | 57.36 | 24.64 | L1 | OFF | 19.7 |
| 0.453750 | --- | 24.85 | 46.81 | 21.96 | L1 | OFF | 19.7 |
| 0.453750 | 32.75 | --- | 56.81 | 24.06 | L1 | OFF | 19.7 |
| 0.469500 | --- | 24.18 | 46.52 | 22.34 | L1 | OFF | 19.7 |
| 0.469500 | 31.83 | --- | 56.52 | 24.69 | L1 | OFF | 19.7 |
| 0.494250 | --- | 24.44 | 46.10 | 21.66 | L1 | OFF | 19.7 |
| 0.494250 | 31.14 | --- | 56.10 | 24.96 | L1 | OFF | 19.7 |
| 0.514500 | --- | 24.73 | 46.00 | 21.27 | L1 | OFF | 19.8 |
| 0.514500 | 31.30 | --- | 56.00 | 24.70 | L1 | OFF | 19.8 |
| 0.530250 | --- | 23.81 | 46.00 | 22.19 | L1 | OFF | 19.8 |
| 0.530250 | 28.47 | --- | 56.00 | 27.53 | L1 | OFF | 19.8 |
| 0.631500 | --- | 23.29 | 46.00 | 22.71 | L1 | OFF | 19.9 |
| 0.631500 | 27.00 | --- | 56.00 | 29.00 | L1 | OFF | 19.9 |
| 0.660750 | --- | 24.30 | 46.00 | 21.70 | L1 | OFF | 19.9 |
| 0.660750 | 33.81 | --- | 56.00 | 22.19 | L1 | OFF | 19.9 |
| 0.676500 | --- | 29.75 | 46.00 | 16.25 | L1 | OFF | 19.9 |
| 0.676500 | 41.26 | --- | 56.00 | 14.74 | L1 | OFF | 19.9 |
| 0.721500 | --- | 25.85 | 46.00 | 20.15 | L1 | OFF | 19.9 |
| 0.721500 | 33.38 | --- | 56.00 | 22.62 | L1 | OFF | 19.9 |
| 25.161000 | --- | 26.35 | 50.00 | 23.65 | L1 | OFF | 20.6 |
| 25.161000 | 28.19 | --- | 60.00 | 31.81 | L1 | OFF | 20.6 |

EUT Information

Report NO : 100638
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Neutral

Full Spectrum



Final_Result

| Frequency (MHz) | QuasiPeak (dBuV) | CAverage (dBuV) | Limit (dBuV) | Margin (dB) | Line | Filter | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|------|--------|------------|
| 0.152250 | --- | 32.13 | 55.88 | 23.75 | N | OFF | 19.6 |
| 0.152250 | 49.21 | --- | 65.88 | 16.67 | N | OFF | 19.6 |
| 0.161250 | --- | 36.07 | 55.40 | 19.33 | N | OFF | 19.6 |
| 0.161250 | 50.39 | --- | 65.40 | 15.01 | N | OFF | 19.6 |
| 0.168000 | --- | 33.37 | 55.06 | 21.69 | N | OFF | 19.6 |
| 0.168000 | 48.91 | --- | 65.06 | 16.15 | N | OFF | 19.6 |
| 0.177000 | --- | 28.18 | 54.63 | 26.45 | N | OFF | 19.6 |
| 0.177000 | 44.52 | --- | 64.63 | 20.11 | N | OFF | 19.6 |
| 0.188250 | --- | 29.62 | 54.11 | 24.49 | N | OFF | 19.6 |
| 0.188250 | 44.75 | --- | 64.11 | 19.36 | N | OFF | 19.6 |
| 0.197250 | --- | 31.12 | 53.73 | 22.61 | N | OFF | 19.6 |
| 0.197250 | 45.67 | --- | 63.73 | 18.06 | N | OFF | 19.6 |
| 0.204000 | --- | 28.68 | 53.45 | 24.77 | N | OFF | 19.6 |
| 0.204000 | 44.49 | --- | 63.45 | 18.96 | N | OFF | 19.6 |
| 0.215250 | --- | 26.90 | 53.00 | 26.10 | N | OFF | 19.6 |
| 0.215250 | 40.97 | --- | 63.00 | 22.03 | N | OFF | 19.6 |
| 0.228750 | --- | 28.82 | 52.50 | 23.68 | N | OFF | 19.6 |
| 0.228750 | 43.19 | --- | 62.50 | 19.31 | N | OFF | 19.6 |
| 0.240000 | --- | 26.73 | 52.10 | 25.37 | N | OFF | 19.6 |
| 0.240000 | 40.34 | --- | 62.10 | 21.76 | N | OFF | 19.6 |
| 0.253500 | --- | 26.21 | 51.64 | 25.43 | N | OFF | 19.6 |

| | | | | | | | |
|-----------|-------|-------|-------|-------|---|-----|------|
| 0.253500 | 39.65 | --- | 61.64 | 21.99 | N | OFF | 19.6 |
| 0.262500 | --- | 27.29 | 51.35 | 24.06 | N | OFF | 19.6 |
| 0.262500 | 40.59 | --- | 61.35 | 20.76 | N | OFF | 19.6 |
| 0.273750 | --- | 25.74 | 51.00 | 25.26 | N | OFF | 19.6 |
| 0.273750 | 38.68 | --- | 61.00 | 22.32 | N | OFF | 19.6 |
| 0.282750 | --- | 25.62 | 50.74 | 25.12 | N | OFF | 19.6 |
| 0.282750 | 37.55 | --- | 60.74 | 23.19 | N | OFF | 19.6 |
| 0.298500 | --- | 26.51 | 50.28 | 23.77 | N | OFF | 19.6 |
| 0.298500 | 36.26 | --- | 60.28 | 24.02 | N | OFF | 19.6 |
| 0.314250 | --- | 25.65 | 49.86 | 24.21 | N | OFF | 19.6 |
| 0.314250 | 36.85 | --- | 59.86 | 23.01 | N | OFF | 19.6 |
| 0.332250 | --- | 26.37 | 49.40 | 23.03 | N | OFF | 19.6 |
| 0.332250 | 35.38 | --- | 59.40 | 24.02 | N | OFF | 19.6 |
| 0.350250 | --- | 26.36 | 48.96 | 22.60 | N | OFF | 19.6 |
| 0.350250 | 35.65 | --- | 58.96 | 23.31 | N | OFF | 19.6 |
| 0.363750 | --- | 26.05 | 48.64 | 22.59 | N | OFF | 19.6 |
| 0.363750 | 34.18 | --- | 58.64 | 24.46 | N | OFF | 19.6 |
| 0.375000 | --- | 25.88 | 48.39 | 22.51 | N | OFF | 19.6 |
| 0.375000 | 35.12 | --- | 58.39 | 23.27 | N | OFF | 19.6 |
| 0.393000 | --- | 26.52 | 48.00 | 21.48 | N | OFF | 19.6 |
| 0.393000 | 35.08 | --- | 58.00 | 22.92 | N | OFF | 19.6 |
| 0.408750 | --- | 25.34 | 47.67 | 22.33 | N | OFF | 19.6 |
| 0.408750 | 32.95 | --- | 57.67 | 24.72 | N | OFF | 19.6 |
| 0.429000 | --- | 24.57 | 47.27 | 22.70 | N | OFF | 19.7 |
| 0.429000 | 32.04 | --- | 57.27 | 25.23 | N | OFF | 19.7 |
| 0.453750 | --- | 25.64 | 46.81 | 21.17 | N | OFF | 19.7 |
| 0.453750 | 34.18 | --- | 56.81 | 22.63 | N | OFF | 19.7 |
| 0.467250 | --- | 24.40 | 46.56 | 22.16 | N | OFF | 19.7 |
| 0.467250 | 32.32 | --- | 56.56 | 24.24 | N | OFF | 19.7 |
| 0.492000 | --- | 26.15 | 46.13 | 19.98 | N | OFF | 19.7 |
| 0.492000 | 34.87 | --- | 56.13 | 21.26 | N | OFF | 19.7 |
| 0.516750 | --- | 26.52 | 46.00 | 19.48 | N | OFF | 19.8 |
| 0.516750 | 34.17 | --- | 56.00 | 21.83 | N | OFF | 19.8 |
| 0.543750 | --- | 25.02 | 46.00 | 20.98 | N | OFF | 19.8 |
| 0.543750 | 31.69 | --- | 56.00 | 24.31 | N | OFF | 19.8 |
| 0.584250 | --- | 26.89 | 46.00 | 19.11 | N | OFF | 19.8 |
| 0.584250 | 32.53 | --- | 56.00 | 23.47 | N | OFF | 19.8 |
| 0.636000 | --- | 23.68 | 46.00 | 22.32 | N | OFF | 19.9 |
| 0.636000 | 28.60 | --- | 56.00 | 27.40 | N | OFF | 19.9 |
| 0.676500 | --- | 33.54 | 46.00 | 12.46 | N | OFF | 19.9 |
| 0.676500 | 43.94 | --- | 56.00 | 12.06 | N | OFF | 19.9 |
| 0.687750 | --- | 33.62 | 46.00 | 12.38 | N | OFF | 19.9 |
| 0.687750 | 44.85 | --- | 56.00 | 11.15 | N | OFF | 19.9 |
| 0.728250 | --- | 24.74 | 46.00 | 21.26 | N | OFF | 20.0 |
| 0.728250 | 30.80 | --- | 56.00 | 25.20 | N | OFF | 20.0 |
| 0.777750 | --- | 25.45 | 46.00 | 20.55 | N | OFF | 20.0 |
| 0.777750 | 30.41 | --- | 56.00 | 25.59 | N | OFF | 20.0 |
| 29.370750 | --- | 29.58 | 50.00 | 20.42 | N | OFF | 20.8 |
| 29.370750 | 32.61 | --- | 60.00 | 27.39 | N | OFF | 20.8 |



Appendix C. Radiated Spurious Emission

| | | | |
|-----------------|-----------------------------------|---------------------|-------------|
| Test Engineer : | Jesse Wang, Stan Hsieh and Ken Wu | Temperature : | 17.9~24.6°C |
| | | Relative Humidity : | 53.1~69% |

<CDD Mode>

Band 1 - 5150~5250MHz
WIFI 802.11a (Band Edge @ 3m)

| WIFI Ant. | 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 | | 5150 | 56.81 | -17.19 | 74 | 46.1 | 34.2 | 11.79 | 35.28 | 100 | 242 | P | H | |
| | | 5150 | 51.41 | -2.59 | 54 | 40.7 | 34.2 | 11.79 | 35.28 | 100 | 242 | A | H | |
| | * | 5180 | 116.55 | - | - | 105.72 | 34.27 | 11.83 | 35.27 | 100 | 295 | P | H | |
| | * | 5180 | 109.56 | - | - | 98.73 | 34.27 | 11.83 | 35.27 | 100 | 295 | A | H | |
| | | | | | | | | | | | | | H | |
| | | | | | | | | | | | | | | H |
| | | | 5145.86 | 58.71 | -15.29 | 74 | 48 | 34.2 | 11.79 | 35.28 | 278 | 204 | P | V |
| | | | 5146.12 | 46.99 | -7.01 | 54 | 36.28 | 34.2 | 11.79 | 35.28 | 278 | 204 | A | V |
| | * | | 5180 | 116.45 | - | - | 105.62 | 34.27 | 11.83 | 35.27 | 278 | 204 | P | V |
| | * | | 5180 | 108.94 | - | - | 98.11 | 34.27 | 11.83 | 35.27 | 278 | 204 | A | V |
| | | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | | V |
| 802.11a CH 44 5220MHz | | 5059.28 | 48.23 | -25.77 | 74 | 37.8 | 34.07 | 11.69 | 35.33 | 100 | 242 | P | H | |
| | | 5147.68 | 40.53 | -13.47 | 54 | 29.82 | 34.2 | 11.79 | 35.28 | 100 | 242 | A | H | |
| | * | 5220 | 113.23 | - | - | 102.32 | 34.3 | 11.86 | 35.25 | 100 | 242 | P | H | |
| | * | 5220 | 105.71 | - | - | 94.8 | 34.3 | 11.86 | 35.25 | 100 | 242 | A | H | |
| | | | 5411.28 | 48.36 | -25.64 | 74 | 36.93 | 34.6 | 11.99 | 35.16 | 100 | 242 | P | H |
| | | | 5411 | 41.18 | -12.82 | 54 | 29.75 | 34.6 | 11.99 | 35.16 | 100 | 242 | A | H |
| | | | 5068.9 | 48.68 | -25.32 | 74 | 38.22 | 34.07 | 11.7 | 35.31 | 339 | 252 | P | V |
| | | | 5129.74 | 39.69 | -14.31 | 54 | 29.01 | 34.2 | 11.77 | 35.29 | 339 | 252 | A | V |
| | * | | 5220 | 111.69 | - | - | 100.78 | 34.3 | 11.86 | 35.25 | 339 | 252 | P | V |
| | * | | 5220 | 104.11 | - | - | 93.2 | 34.3 | 11.86 | 35.25 | 339 | 252 | A | V |
| | | | 5459.44 | 48.08 | -25.92 | 74 | 36.55 | 34.6 | 12.06 | 35.13 | 339 | 252 | P | V |
| | | | 5414.36 | 39.91 | -14.09 | 54 | 28.48 | 34.6 | 11.99 | 35.16 | 339 | 252 | A | V |



| | | | | | | | | | | | | | |
|--------------------------------------|---|---------|--------|--------|----|--------|-------|-------|-------|-----|-----|---|---|
| 802.11a CH 48 5240MHz | | 5033.54 | 48.57 | -25.43 | 74 | 38.18 | 34.07 | 11.66 | 35.34 | 100 | 241 | P | H |
| | | 5139.1 | 40.41 | -13.59 | 54 | 29.72 | 34.2 | 11.78 | 35.29 | 100 | 241 | A | H |
| | * | 5240 | 112.33 | - | - | 101.4 | 34.3 | 11.87 | 35.24 | 100 | 241 | P | H |
| | * | 5240 | 105.13 | - | - | 94.2 | 34.3 | 11.87 | 35.24 | 100 | 241 | A | H |
| | | 5362.28 | 49.45 | -24.55 | 74 | 38.21 | 34.47 | 11.95 | 35.18 | 100 | 241 | P | H |
| | | 5424.44 | 40.94 | -13.06 | 54 | 29.47 | 34.6 | 12.01 | 35.14 | 100 | 241 | A | H |
| | | 5143 | 48.32 | -25.68 | 74 | 37.63 | 34.2 | 11.78 | 35.29 | 253 | 251 | P | V |
| | | 5147.42 | 39.7 | -14.3 | 54 | 28.99 | 34.2 | 11.79 | 35.28 | 253 | 251 | A | V |
| | * | 5240 | 110.97 | - | - | 100.04 | 34.3 | 11.87 | 35.24 | 253 | 251 | P | V |
| | * | 5240 | 104.23 | - | - | 93.3 | 34.3 | 11.87 | 35.24 | 253 | 251 | A | V |
| | | 5426.12 | 47.37 | -26.63 | 74 | 35.9 | 34.6 | 12.01 | 35.14 | 253 | 251 | P | V |
| | | 5438.72 | 40.16 | -13.84 | 54 | 28.67 | 34.6 | 12.03 | 35.14 | 253 | 251 | A | V |
| Remark | 1. No other spurious found. 2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |



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

| WIFI Ant. 1+2+3+4 | 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 | 56.42 | -11.78 | 68.2 | 59.59 | 37.57 | 18.57 | 59.31 | - | - | P | H | |
| | | 13380 | 48.86 | -25.14 | 74 | 46.92 | 38.94 | 21.23 | 58.23 | - | - | P | H | |
| | | 13380 | 36.95 | -17.05 | 54 | 35.01 | 38.94 | 21.23 | 58.23 | - | - | A | H | |
| | | 14491 | 48.75 | -25.25 | 74 | 45.24 | 39.3 | 22.3 | 58.09 | - | - | P | H | |
| | | 14491 | 38.61 | -15.39 | 54 | 35.1 | 39.3 | 22.3 | 58.09 | - | - | A | H | |
| | | 15540 | 62.08 | -11.92 | 74 | 55.71 | 40.27 | 23.33 | 57.23 | 259 | 205 | P | H | |
| | | 15540 | 51.47 | -2.53 | 54 | 45.1 | 40.27 | 23.33 | 57.23 | 259 | 205 | A | H | |
| | | 17747 | 52.47 | -21.53 | 74 | 41.33 | 41.85 | 25.42 | 56.13 | - | - | P | H | |
| | | 17747 | 42.58 | -11.42 | 54 | 31.44 | 41.85 | 25.42 | 56.13 | - | - | A | H | |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | 10360 | 52.34 | -15.86 | 68.2 | 55.51 | 37.57 | 18.57 | 59.31 | - | - | P | V |
| | | | 13347 | 48.61 | -25.39 | 74 | 46.61 | 39.02 | 21.2 | 58.22 | - | - | P | V |
| | | | 13347 | 37.01 | -16.99 | 54 | 35.01 | 39.02 | 21.2 | 58.22 | - | - | A | V |
| | | | 14491 | 48.28 | -25.72 | 74 | 44.77 | 39.3 | 22.3 | 58.09 | - | - | P | V |
| | | | 14491 | 38.69 | -15.31 | 54 | 35.18 | 39.3 | 22.3 | 58.09 | - | - | A | V |
| | | | 15540 | 61.13 | -12.87 | 74 | 54.76 | 40.27 | 23.33 | 57.23 | 196 | 307 | P | V |
| | | | 15540 | 50.34 | -3.66 | 54 | 43.97 | 40.27 | 23.33 | 57.23 | 196 | 307 | A | V |
| | | | 17714 | 52.52 | -21.48 | 74 | 41.46 | 41.82 | 25.39 | 56.15 | - | - | P | V |
| | | 17714 | 42.55 | -11.45 | 54 | 31.49 | 41.82 | 25.39 | 56.15 | - | - | A | V | |
| | | | | | | | | | | | | | V | |
| | | | | | | | | | | | | | V | |
| | | | | | | | | | | | | | V | |



| WIFI Ant. 1+2+3+4 | 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 44 5220MHz | | 10440 | 59.93 | -8.27 | 68.2 | 62.9 | 37.6 | 18.64 | 59.21 | - | - | P | H | |
| | | 13391 | 46.36 | -27.64 | 74 | 44.45 | 38.9 | 21.24 | 58.23 | - | - | P | H | |
| | | 14480 | 46.32 | -27.68 | 74 | 42.84 | 39.28 | 22.29 | 58.09 | - | - | P | H | |
| | | 15660 | 61.09 | -12.91 | 74 | 54.36 | 40.4 | 23.45 | 57.12 | 297 | 202 | P | H | |
| | | 15660 | 52.31 | -1.69 | 54 | 45.58 | 40.4 | 23.45 | 57.12 | 297 | 202 | A | H | |
| | | 17923 | 51.68 | -22.32 | 74 | 40.23 | 41.9 | 25.58 | 56.03 | - | - | P | H | |
| | | 17923 | 41.88 | -12.12 | 54 | 30.43 | 41.9 | 25.58 | 56.03 | - | - | A | H | |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | 10440 | 52.25 | -15.95 | 68.2 | 55.22 | 37.6 | 18.64 | 59.21 | - | - | P | V |
| | | | 13336 | 45.72 | -28.28 | 74 | 43.72 | 39.02 | 21.19 | 58.21 | - | - | P | V |
| | | | 14480 | 46.44 | -27.56 | 74 | 42.96 | 39.28 | 22.29 | 58.09 | - | - | P | V |
| | | | 15660 | 60.62 | -13.38 | 74 | 53.89 | 40.4 | 23.45 | 57.12 | 196 | 308 | P | V |
| | | | 15660 | 48.92 | -5.08 | 54 | 42.19 | 40.4 | 23.45 | 57.12 | 196 | 308 | A | V |
| | | | 17934 | 51.13 | -22.87 | 74 | 39.66 | 41.9 | 25.59 | 56.02 | - | - | P | V |
| | | | 17934 | 42.02 | -11.98 | 54 | 30.55 | 41.9 | 25.59 | 56.02 | - | - | A | V |
| | | | | | | | | | | | | | V | |
| | | | | | | | | | | | | | V | |
| | | | | | | | | | | | | | V | |
| | | | | | | | | | | | | | V | |
| | | | | | | | | | | | | | V | |



| WIFI Ant. 1+2+3+4 | 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 | 56.88 | -11.32 | 68.2 | 59.77 | 37.6 | 18.67 | 59.16 | - | - | P | H | |
| | | 13391 | 48.2 | -25.8 | 74 | 46.29 | 38.9 | 21.24 | 58.23 | - | - | P | H | |
| | | 13391 | 36.77 | -17.23 | 54 | 34.86 | 38.9 | 21.24 | 58.23 | - | - | A | H | |
| | | 14491 | 48.35 | -25.65 | 74 | 44.84 | 39.3 | 22.3 | 58.09 | - | - | P | H | |
| | | 14491 | 38.53 | -15.47 | 54 | 35.02 | 39.3 | 22.3 | 58.09 | - | - | A | H | |
| | | 15720 | 64.74 | -9.26 | 74 | 57.69 | 40.62 | 23.5 | 57.07 | 291 | 202 | P | H | |
| | | 15720 | 52.68 | -1.32 | 54 | 45.63 | 40.62 | 23.5 | 57.07 | 291 | 202 | A | H | |
| | | 17791 | 52.15 | -21.85 | 74 | 40.9 | 41.9 | 25.46 | 56.11 | - | - | P | H | |
| | | 17791 | 42.53 | -11.47 | 54 | 31.28 | 41.9 | 25.46 | 56.11 | - | - | A | H | |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | 10480 | 53.11 | -15.09 | 68.2 | 56 | 37.6 | 18.67 | 59.16 | - | - | P | V |
| | | | 13336 | 48.7 | -25.3 | 74 | 46.7 | 39.02 | 21.19 | 58.21 | - | - | P | V |
| | | | 13336 | 36.88 | -17.12 | 54 | 34.88 | 39.02 | 21.19 | 58.21 | - | - | A | V |
| | | | 14491 | 48.35 | -25.65 | 74 | 44.84 | 39.3 | 22.3 | 58.09 | - | - | P | V |
| | | | 14491 | 38.75 | -15.25 | 54 | 35.24 | 39.3 | 22.3 | 58.09 | - | - | A | V |
| | | | 15720 | 63.43 | -10.57 | 74 | 56.38 | 40.62 | 23.5 | 57.07 | 199 | 306 | P | V |
| | | | 15720 | 52.38 | -1.62 | 54 | 45.33 | 40.62 | 23.5 | 57.07 | 199 | 306 | A | V |
| | | | 17769 | 52.62 | -21.38 | 74 | 41.43 | 41.87 | 25.44 | 56.12 | - | - | P | V |
| | | 17769 | 42.52 | -11.48 | 54 | 31.33 | 41.87 | 25.44 | 56.12 | - | - | A | V | |
| | | | | | | | | | | | | | V | |
| | | | | | | | | | | | | | V | |
| | | | | | | | | | | | | | V | |
| Remark | <ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. The emission level close to 18GHz is checked that the average emission level is noise floor only. | | | | | | | | | | | | | |



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

| WIFI Ant. 1+2+3+4 | 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 36 5180MHz | | 5146.38 | 58.76 | -15.24 | 74 | 48.05 | 34.2 | 11.79 | 35.28 | 100 | 245 | P | H | |
| | | 5148.98 | 51.71 | -2.29 | 54 | 41 | 34.2 | 11.79 | 35.28 | 100 | 245 | A | H | |
| | * | 5180 | 118.41 | - | - | 107.58 | 34.27 | 11.83 | 35.27 | 100 | 245 | P | H | |
| | * | 5180 | 109.53 | - | - | 98.7 | 34.27 | 11.83 | 35.27 | 100 | 245 | A | H | |
| | | | | | | | | | | | | | H | |
| | | | | | | | | | | | | | H | |
| | | | 5149.76 | 53.24 | -20.76 | 74 | 42.53 | 34.2 | 11.79 | 35.28 | 275 | 249 | P | V |
| | | | 5150 | 46.88 | -7.12 | 54 | 36.17 | 34.2 | 11.79 | 35.28 | 275 | 249 | A | V |
| | | * | 5180 | 115.64 | - | - | 104.81 | 34.27 | 11.83 | 35.27 | 275 | 249 | P | V |
| | | * | 5180 | 106.33 | - | - | 95.5 | 34.27 | 11.83 | 35.27 | 275 | 249 | A | V |
| | | | | | | | | | | | | | V | |
| | | | | | | | | | | | | | V | |
| 802.11ax HE20 Full CH 44 5220MHz | | 5146.12 | 49.18 | -24.82 | 74 | 38.47 | 34.2 | 11.79 | 35.28 | 100 | 235 | P | H | |
| | | 5147.94 | 39.9 | -14.1 | 54 | 29.19 | 34.2 | 11.79 | 35.28 | 100 | 235 | A | H | |
| | | * 5220 | 115 | - | - | 104.09 | 34.3 | 11.86 | 35.25 | 100 | 235 | P | H | |
| | | * 5220 | 106.11 | - | - | 95.2 | 34.3 | 11.86 | 35.25 | 100 | 235 | A | H | |
| | | | 5404.28 | 49.69 | -24.31 | 74 | 38.27 | 34.6 | 11.98 | 35.16 | 100 | 235 | P | H |
| | | | 5414.08 | 40.22 | -13.78 | 54 | 28.79 | 34.6 | 11.99 | 35.16 | 100 | 235 | A | H |
| | | | 5144.3 | 48.08 | -25.92 | 74 | 37.37 | 34.2 | 11.79 | 35.28 | 308 | 240 | P | V |
| | | | 5147.68 | 39.38 | -14.62 | 54 | 28.67 | 34.2 | 11.79 | 35.28 | 308 | 240 | A | V |
| | | * | 5220 | 111.05 | - | - | 100.14 | 34.3 | 11.86 | 35.25 | 308 | 240 | P | V |
| | | * | 5220 | 102.81 | - | - | 91.9 | 34.3 | 11.86 | 35.25 | 308 | 240 | A | V |
| | | 5357.24 | 48.08 | -25.92 | 74 | 36.92 | 34.4 | 11.94 | 35.18 | 308 | 240 | P | V | |
| | | 5419.12 | 39.32 | -14.68 | 54 | 27.88 | 34.6 | 12 | 35.16 | 308 | 240 | A | V | |



| | | | | | | | | | | | | | |
|---|---|---------|--------|--------|----|--------|------|-------|-------|-----|-----|---|---|
| 802.11ax HE20 Full CH 48 5240MHz | | 5143.26 | 47.6 | -26.4 | 74 | 36.91 | 34.2 | 11.78 | 35.29 | 100 | 241 | P | H |
| | | 5150 | 40.05 | -13.95 | 54 | 29.34 | 34.2 | 11.79 | 35.28 | 100 | 241 | A | H |
| | * | 5240 | 115.7 | - | - | 104.77 | 34.3 | 11.87 | 35.24 | 100 | 241 | P | H |
| | * | 5240 | 107.73 | - | - | 96.8 | 34.3 | 11.87 | 35.24 | 100 | 241 | A | H |
| | | 5351.64 | 49.4 | -24.6 | 74 | 38.24 | 34.4 | 11.94 | 35.18 | 100 | 241 | P | H |
| | | 5430.04 | 41.21 | -12.79 | 54 | 29.73 | 34.6 | 12.02 | 35.14 | 100 | 241 | A | H |
| | | 5124.54 | 48 | -26 | 74 | 37.33 | 34.2 | 11.76 | 35.29 | 338 | 265 | P | V |
| | | 5139.1 | 39.21 | -14.79 | 54 | 28.52 | 34.2 | 11.78 | 35.29 | 338 | 265 | A | V |
| | * | 5240 | 112.19 | - | - | 101.26 | 34.3 | 11.87 | 35.24 | 338 | 265 | P | V |
| | * | 5240 | 103.83 | - | - | 92.9 | 34.3 | 11.87 | 35.24 | 338 | 265 | A | V |
| | | 5351.92 | 47.89 | -26.11 | 74 | 36.73 | 34.4 | 11.94 | 35.18 | 338 | 265 | P | V |
| | | 5435.36 | 39.34 | -14.66 | 54 | 27.86 | 34.6 | 12.02 | 35.14 | 338 | 265 | A | V |
| Remark | 1. No other spurious found. 2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |



Band 1 5150~5250MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

| WIFI Ant. 1+2+3+4 | 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 | 57.57 | -10.63 | 68.2 | 60.74 | 37.57 | 18.57 | 59.31 | - | - | P | H |
| | | 13347 | 48.51 | -25.49 | 74 | 46.51 | 39.02 | 21.2 | 58.22 | - | - | P | H |
| | | 13347 | 36.51 | -17.49 | 54 | 34.51 | 39.02 | 21.2 | 58.22 | - | - | A | H |
| | | 14491 | 48.36 | -25.64 | 74 | 44.85 | 39.3 | 22.3 | 58.09 | - | - | P | H |
| | | 14491 | 38.11 | -15.89 | 54 | 34.6 | 39.3 | 22.3 | 58.09 | - | - | A | H |
| | | 15540 | 62.96 | -11.04 | 74 | 56.59 | 40.27 | 23.33 | 57.23 | 257 | 204 | P | H |
| | | 15540 | 51.53 | -2.47 | 54 | 45.16 | 40.27 | 23.33 | 57.23 | 257 | 204 | A | H |
| | | 17901 | 52.18 | -21.82 | 74 | 40.77 | 41.9 | 25.55 | 56.04 | - | - | P | H |
| | | 17901 | 41.85 | -12.15 | 54 | 30.44 | 41.9 | 25.55 | 56.04 | - | - | A | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| 802.11ax | | | | | | | | | | | | | |
| HE20 Full | | | | | | | | | | | | | |
| CH 36 | | | | | | | | | | | | | |
| 5180MHz | | | | | | | | | | | | | |
| | | 10360 | 52.42 | -15.78 | 68.2 | 55.59 | 37.57 | 18.57 | 59.31 | - | - | P | V |
| | | 13380 | 48.66 | -25.34 | 74 | 46.72 | 38.94 | 21.23 | 58.23 | - | - | P | V |
| | | 13380 | 36.47 | -17.53 | 54 | 34.53 | 38.94 | 21.23 | 58.23 | - | - | A | V |
| | | 14491 | 48.25 | -25.75 | 74 | 44.74 | 39.3 | 22.3 | 58.09 | - | - | P | V |
| | | 14491 | 38.15 | -15.85 | 54 | 34.64 | 39.3 | 22.3 | 58.09 | - | - | A | V |
| | | 15540 | 62.63 | -11.37 | 74 | 56.26 | 40.27 | 23.33 | 57.23 | 192 | 308 | P | V |
| | | 15540 | 50.74 | -3.26 | 54 | 44.37 | 40.27 | 23.33 | 57.23 | 192 | 308 | A | V |
| | | 17769 | 52.16 | -21.84 | 74 | 40.97 | 41.87 | 25.44 | 56.12 | - | - | P | V |
| | | 17769 | 42.11 | -11.89 | 54 | 30.92 | 41.87 | 25.44 | 56.12 | - | - | A | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |



| WIFI Ant. 1+2+3+4 | 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 | 56.99 | -11.21 | 68.2 | 59.96 | 37.6 | 18.64 | 59.21 | - | - | P | H |
| | | 12588 | 48.26 | -25.74 | 74 | 45.79 | 39.1 | 20.49 | 57.12 | - | - | P | H |
| | | 12588 | 37.03 | -16.97 | 54 | 34.56 | 39.1 | 20.49 | 57.12 | - | - | A | H |
| | | 13369 | 48.62 | -25.38 | 74 | 46.68 | 38.94 | 21.22 | 58.22 | - | - | P | H |
| | | 13369 | 36.41 | -17.59 | 54 | 34.47 | 38.94 | 21.22 | 58.22 | - | - | A | H |
| | | 15660 | 63.9 | -10.1 | 74 | 57.17 | 40.4 | 23.45 | 57.12 | 295 | 204 | P | H |
| | | 15660 | 51.83 | -2.17 | 54 | 45.1 | 40.4 | 23.45 | 57.12 | 295 | 204 | A | H |
| | | 17901 | 52.29 | -21.71 | 74 | 40.88 | 41.9 | 25.55 | 56.04 | - | - | P | H |
| | | 17901 | 41.89 | -12.11 | 54 | 30.48 | 41.9 | 25.55 | 56.04 | - | - | A | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| 802.11ax | | | | | | | | | | | | | H |
| HE20 Full | | | | | | | | | | | | | H |
| CH 44 | | | | | | | | | | | | | |
| 5220MHz | | 10440 | 50.49 | -17.71 | 68.2 | 53.46 | 37.6 | 18.64 | 59.21 | - | - | P | V |
| | | 13270 | 48.54 | -25.46 | 74 | 46.54 | 39.07 | 21.13 | 58.2 | - | - | P | V |
| | | 13270 | 36.16 | -17.84 | 54 | 34.16 | 39.07 | 21.13 | 58.2 | - | - | A | V |
| | | 14491 | 48.94 | -25.06 | 74 | 45.43 | 39.3 | 22.3 | 58.09 | - | - | P | V |
| | | 14491 | 38.17 | -15.83 | 54 | 34.66 | 39.3 | 22.3 | 58.09 | - | - | A | V |
| | | 15660 | 63.32 | -10.68 | 74 | 56.59 | 40.4 | 23.45 | 57.12 | 196 | 308 | P | V |
| | | 15660 | 51.56 | -2.44 | 54 | 44.83 | 40.4 | 23.45 | 57.12 | 196 | 308 | A | V |
| | | 17703 | 52.14 | -21.86 | 74 | 41.1 | 41.82 | 25.38 | 56.16 | - | - | P | V |
| | | 17703 | 42.17 | -11.83 | 54 | 31.13 | 41.82 | 25.38 | 56.16 | - | - | A | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |



Band 1 5150~5250MHz
WIFI 802.11ax HE20 Partial RU (Band Edge @ 3m)

| WIFI Ant. 1+2+3+4 | 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 Partial M CH 36 5180MHz | | 5148.72 | 62.75 | -11.25 | 74 | 52.04 | 34.2 | 11.79 | 35.28 | 100 | 267 | P | H | |
| | | 5148.2 | 52.67 | -1.33 | 54 | 41.96 | 34.2 | 11.79 | 35.28 | 100 | 267 | A | H | |
| | * | 5180 | 115.4 | - | - | 104.57 | 34.27 | 11.83 | 35.27 | 100 | 267 | P | H | |
| | * | 5180 | 107.05 | - | - | 96.22 | 34.27 | 11.83 | 35.27 | 100 | 267 | A | H | |
| | | | | | | | | | | | | | H | |
| | | | | | | | | | | | | | H | |
| | | | 5149.76 | 59.6 | -14.4 | 74 | 48.89 | 34.2 | 11.79 | 35.28 | 100 | 321 | P | V |
| | | | 5149.24 | 49.32 | -4.68 | 54 | 38.61 | 34.2 | 11.79 | 35.28 | 100 | 321 | A | V |
| | * | | 5180 | 113.27 | - | - | 102.44 | 34.27 | 11.83 | 35.27 | 100 | 321 | P | V |
| | * | | 5180 | 105 | - | - | 94.17 | 34.27 | 11.83 | 35.27 | 100 | 321 | A | V |
| | | | | | | | | | | | | | V | |
| | | | | | | | | | | | | | V | |
| 802.11ax HE20 Partial BE CH 36 5180MHz | | 5148.2 | 63.33 | -10.67 | 74 | 52.62 | 34.2 | 11.79 | 35.28 | 100 | 239 | P | H | |
| | | 5146.9 | 47.65 | -6.35 | 54 | 36.94 | 34.2 | 11.79 | 35.28 | 100 | 239 | A | H | |
| | * | 5180 | 119.8 | - | - | 108.97 | 34.27 | 11.83 | 35.27 | 100 | 239 | P | H | |
| | * | 5180 | 112.13 | - | - | 101.3 | 34.27 | 11.83 | 35.27 | 100 | 239 | A | H | |
| | | | | | | | | | | | | | H | |
| | | | | | | | | | | | | | H | |
| | | | 5149.76 | 51.53 | -22.47 | 74 | 40.82 | 34.2 | 11.79 | 35.28 | 100 | 240 | P | V |
| | | | 5149.76 | 45.45 | -8.55 | 54 | 34.74 | 34.2 | 11.79 | 35.28 | 100 | 240 | A | V |
| | * | | 5180 | 117.94 | - | - | 107.11 | 34.27 | 11.83 | 35.27 | 100 | 240 | P | V |
| | * | | 5180 | 109.43 | - | - | 98.6 | 34.27 | 11.83 | 35.27 | 100 | 240 | A | V |
| | | | | | | | | | | | | | V | |
| | | | | | | | | | | | | | V | |



| WIFI Ant. 1+2+3+4 | 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 Partial M CH 44 5220MHz | | 5150 | 50.46 | -23.54 | 74 | 39.75 | 34.2 | 11.79 | 35.28 | 100 | 241 | P | H |
| | | 5149.24 | 41.24 | -12.76 | 54 | 30.53 | 34.2 | 11.79 | 35.28 | 100 | 241 | A | H |
| | * | 5220 | 115.12 | - | - | 104.21 | 34.3 | 11.86 | 35.25 | 100 | 241 | P | H |
| | * | 5220 | 107.51 | - | - | 96.6 | 34.3 | 11.86 | 35.25 | 100 | 241 | A | H |
| | | 5356.12 | 49.39 | -24.61 | 74 | 38.23 | 34.4 | 11.94 | 35.18 | 100 | 241 | P | H |
| | | 5406.24 | 41.88 | -12.12 | 54 | 30.46 | 34.6 | 11.98 | 35.16 | 100 | 241 | A | H |
| | | 5108.16 | 48.36 | -25.64 | 74 | 37.72 | 34.2 | 11.74 | 35.3 | 106 | 231 | P | V |
| | | 5149.76 | 40.6 | -13.4 | 54 | 29.89 | 34.2 | 11.79 | 35.28 | 106 | 231 | A | V |
| | * | 5220 | 113.05 | - | - | 102.14 | 34.3 | 11.86 | 35.25 | 106 | 231 | P | V |
| | * | 5220 | 105.11 | - | - | 94.2 | 34.3 | 11.86 | 35.25 | 106 | 231 | A | V |
| | | 5397.84 | 48.03 | -25.97 | 74 | 36.63 | 34.6 | 11.97 | 35.17 | 106 | 231 | P | V |
| | | 5418.28 | 40.67 | -13.33 | 54 | 29.23 | 34.6 | 12 | 35.16 | 106 | 231 | A | V |
| 802.11ax HE20 Partial BE CH 44 5220MHz | | 5149.5 | 51.85 | -22.15 | 74 | 41.14 | 34.2 | 11.79 | 35.28 | 100 | 240 | P | H |
| | | 5148.46 | 41.84 | -12.16 | 54 | 31.13 | 34.2 | 11.79 | 35.28 | 100 | 240 | A | H |
| | * | 5220 | 119.81 | - | - | 108.9 | 34.3 | 11.86 | 35.25 | 100 | 240 | P | H |
| | * | 5220 | 110.11 | - | - | 99.2 | 34.3 | 11.86 | 35.25 | 100 | 240 | A | H |
| | | 5440.68 | 50.12 | -23.88 | 74 | 38.63 | 34.6 | 12.03 | 35.14 | 100 | 240 | P | H |
| | | 5407.36 | 42.98 | -11.02 | 54 | 31.56 | 34.6 | 11.98 | 35.16 | 100 | 240 | A | H |
| | | 5148.46 | 50.05 | -23.95 | 74 | 39.34 | 34.2 | 11.79 | 35.28 | 105 | 242 | P | V |
| | | 5148.72 | 40.98 | -13.02 | 54 | 30.27 | 34.2 | 11.79 | 35.28 | 105 | 242 | A | V |
| | * | 5220 | 115.81 | - | - | 104.9 | 34.3 | 11.86 | 35.25 | 105 | 242 | P | V |
| | * | 5220 | 107.61 | - | - | 96.7 | 34.3 | 11.86 | 35.25 | 105 | 242 | A | V |
| | | 5379.64 | 49.14 | -24.86 | 74 | 37.82 | 34.53 | 11.96 | 35.17 | 105 | 242 | P | V |
| | | 5415.2 | 41.74 | -12.26 | 54 | 30.31 | 34.6 | 11.99 | 35.16 | 105 | 242 | A | V |



| WIFI Ant. 1+2+3+4 | 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 Partial M CH 48 5240MHz | | 5143.26 | 48.27 | -25.73 | 74 | 37.58 | 34.2 | 11.78 | 35.29 | 100 | 245 | P | H |
| | | 5147.68 | 41.51 | -12.49 | 54 | 30.8 | 34.2 | 11.79 | 35.28 | 100 | 245 | A | H |
| | * | 5240 | 115.04 | - | - | 104.11 | 34.3 | 11.87 | 35.24 | 100 | 245 | P | H |
| | * | 5240 | 107.03 | - | - | 96.1 | 34.3 | 11.87 | 35.24 | 100 | 245 | A | H |
| | | 5380.48 | 48.89 | -25.11 | 74 | 37.57 | 34.53 | 11.96 | 35.17 | 100 | 245 | P | H |
| | | 5436.2 | 42.3 | -11.7 | 54 | 30.81 | 34.6 | 12.03 | 35.14 | 100 | 245 | A | H |
| | | 5107.12 | 48.09 | -25.91 | 74 | 37.45 | 34.2 | 11.74 | 35.3 | 104 | 241 | P | V |
| | | 5149.24 | 40.67 | -13.33 | 54 | 29.96 | 34.2 | 11.79 | 35.28 | 104 | 241 | A | V |
| | * | 5240 | 111.28 | - | - | 100.35 | 34.3 | 11.87 | 35.24 | 104 | 241 | P | V |
| | * | 5240 | 103.61 | - | - | 92.68 | 34.3 | 11.87 | 35.24 | 104 | 241 | A | V |
| | | 5437.04 | 49.56 | -24.44 | 74 | 38.07 | 34.6 | 12.03 | 35.14 | 104 | 241 | P | V |
| | | 5425 | 41.08 | -12.92 | 54 | 29.61 | 34.6 | 12.01 | 35.14 | 104 | 241 | A | V |
| 802.11ax HE20 Partial BE CH 48 5240MHz | | 5141.18 | 48.54 | -25.46 | 74 | 37.85 | 34.2 | 11.78 | 35.29 | 100 | 241 | P | H |
| | | 5147.94 | 40.83 | -13.17 | 54 | 30.12 | 34.2 | 11.79 | 35.28 | 100 | 241 | A | H |
| | * | 5240 | 116.23 | - | - | 105.3 | 34.3 | 11.87 | 35.24 | 100 | 241 | P | H |
| | * | 5240 | 108.25 | - | - | 97.32 | 34.3 | 11.87 | 35.24 | 100 | 241 | A | H |
| | | 5435.64 | 50.13 | -23.87 | 74 | 38.64 | 34.6 | 12.03 | 35.14 | 100 | 241 | P | H |
| | | 5436.48 | 42.15 | -11.85 | 54 | 30.66 | 34.6 | 12.03 | 35.14 | 100 | 241 | A | H |
| | | 5108.94 | 47.87 | -26.13 | 74 | 37.22 | 34.2 | 11.75 | 35.3 | 100 | 239 | P | V |
| | | 5141.7 | 40.4 | -13.6 | 54 | 29.71 | 34.2 | 11.78 | 35.29 | 100 | 239 | A | V |
| | * | 5240 | 113.77 | - | - | 102.84 | 34.3 | 11.87 | 35.24 | 100 | 239 | P | V |
| | * | 5240 | 106.13 | - | - | 95.2 | 34.3 | 11.87 | 35.24 | 100 | 239 | A | V |
| | | 5388.32 | 49.27 | -24.73 | 74 | 37.95 | 34.53 | 11.96 | 35.17 | 100 | 239 | P | V |
| | | 5429.2 | 40.61 | -13.39 | 54 | 29.13 | 34.6 | 12.02 | 35.14 | 100 | 239 | A | V |
| Remark | 1. No other spurious found. 2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |



Band 1 5150~5250MHz

WIFI 802.11ax HE20 Partial RU (Harmonic @ 3m)

| WIFI Ant. 1+2+3+4 | 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 | 55.79 | -12.41 | 68.2 | 58.96 | 37.57 | 18.57 | 59.31 | - | - | P | H |
| | | 13369 | 48.37 | -25.63 | 74 | 46.43 | 38.94 | 21.22 | 58.22 | - | - | P | H |
| | | 13369 | 36.93 | -17.07 | 54 | 34.99 | 38.94 | 21.22 | 58.22 | - | - | A | H |
| | | 14491 | 48.36 | -25.64 | 74 | 44.85 | 39.3 | 22.3 | 58.09 | - | - | P | H |
| | | 14491 | 38.57 | -15.43 | 54 | 35.06 | 39.3 | 22.3 | 58.09 | - | - | A | H |
| | | 15540 | 62.26 | -11.74 | 74 | 55.89 | 40.27 | 23.33 | 57.23 | 200 | 185 | P | H |
| | | 15540 | 50.9 | -3.1 | 54 | 44.53 | 40.27 | 23.33 | 57.23 | 200 | 185 | A | H |
| | | 17824 | 52.48 | -21.52 | 74 | 41.19 | 41.9 | 25.48 | 56.09 | - | - | P | H |
| | | 17824 | 42.22 | -11.78 | 54 | 30.93 | 41.9 | 25.48 | 56.09 | - | - | A | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| 802.11ax HE20 Partial M CH 36 5180MHz | | 10360 | 52 | -16.2 | 68.2 | 55.17 | 37.57 | 18.57 | 59.31 | - | - | P | V |
| | | 13325 | 48.65 | -25.35 | 74 | 46.62 | 39.06 | 21.18 | 58.21 | - | - | P | V |
| | | 13325 | 37.03 | -16.97 | 54 | 35 | 39.06 | 21.18 | 58.21 | - | - | A | V |
| | | 14491 | 48.56 | -25.44 | 74 | 45.05 | 39.3 | 22.3 | 58.09 | - | - | P | V |
| | | 14491 | 38.66 | -15.34 | 54 | 35.15 | 39.3 | 22.3 | 58.09 | - | - | A | V |
| | | 15540 | 61.9 | -12.1 | 74 | 55.53 | 40.27 | 23.33 | 57.23 | 200 | 304 | P | V |
| | | 15540 | 50.71 | -3.29 | 54 | 44.34 | 40.27 | 23.33 | 57.23 | 200 | 304 | A | V |
| | | 17868 | 52.8 | -21.2 | 74 | 41.44 | 41.9 | 25.52 | 56.06 | - | - | P | V |
| | | 17868 | 42.06 | -11.94 | 54 | 30.7 | 41.9 | 25.52 | 56.06 | - | - | A | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |



| WIFI Ant. 1+2+3+4 | 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 Partial BE | | 10360 | 60.93 | -7.27 | 68.2 | 64.1 | 37.57 | 18.57 | 59.31 | - | - | P | H |
| | | 13380 | 48.53 | -25.47 | 74 | 46.59 | 38.94 | 21.23 | 58.23 | - | - | P | H |
| | | 13380 | 36.75 | -17.25 | 54 | 34.81 | 38.94 | 21.23 | 58.23 | - | - | A | H |
| | | 14491 | 48.17 | -25.83 | 74 | 44.66 | 39.3 | 22.3 | 58.09 | - | - | P | H |
| | | 14491 | 38.67 | -15.33 | 54 | 35.16 | 39.3 | 22.3 | 58.09 | - | - | A | H |
| | | 15540 | 63.84 | -10.16 | 74 | 57.47 | 40.27 | 23.33 | 57.23 | 205 | 187 | P | H |
| | | 15540 | 52.59 | -1.41 | 54 | 46.22 | 40.27 | 23.33 | 57.23 | 205 | 187 | A | H |
| | | 17780 | 51.75 | -22.25 | 74 | 40.53 | 41.88 | 25.45 | 56.11 | - | - | P | H |
| | | 17780 | 42.22 | -11.78 | 54 | 31 | 41.88 | 25.45 | 56.11 | - | - | A | H |
| | | | | | | | | | | | | | |
| CH 36 5180MHz | | 10360 | 56.33 | -11.87 | 68.2 | 59.5 | 37.57 | 18.57 | 59.31 | - | - | P | V |
| | | 13358 | 48.16 | -25.84 | 74 | 46.19 | 38.98 | 21.21 | 58.22 | - | - | P | V |
| | | 13358 | 36.9 | -17.1 | 54 | 34.93 | 38.98 | 21.21 | 58.22 | - | - | A | V |
| | | 14480 | 48.2 | -25.8 | 74 | 44.72 | 39.28 | 22.29 | 58.09 | - | - | P | V |
| | | 14480 | 38.55 | -15.45 | 54 | 35.07 | 39.28 | 22.29 | 58.09 | - | - | A | V |
| | | 15540 | 63.67 | -10.33 | 74 | 57.3 | 40.27 | 23.33 | 57.23 | 195 | 304 | P | V |
| | | 15540 | 52.43 | -1.57 | 54 | 46.06 | 40.27 | 23.33 | 57.23 | 195 | 304 | A | V |
| | | 17835 | 52.24 | -21.76 | 74 | 40.93 | 41.9 | 25.49 | 56.08 | - | - | P | V |
| | | 17835 | 42.19 | -11.81 | 54 | 30.88 | 41.9 | 25.49 | 56.08 | - | - | A | V |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |



| WIFI Ant. 1+2+3+4 | 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 Partial M CH 44 5220MHz | | 10440 | 57.48 | -10.72 | 68.2 | 60.45 | 37.6 | 18.64 | 59.21 | - | - | P | H | |
| | | 13347 | 47.37 | -26.63 | 74 | 45.37 | 39.02 | 21.2 | 58.22 | - | - | P | H | |
| | | 14480 | 47.9 | -26.1 | 74 | 44.42 | 39.28 | 22.29 | 58.09 | - | - | P | H | |
| | | 15660 | 63.44 | -10.56 | 74 | 56.71 | 40.4 | 23.45 | 57.12 | 251 | 163 | P | H | |
| | | 15660 | 52.16 | -1.84 | 54 | 45.43 | 40.4 | 23.45 | 57.12 | 251 | 163 | A | H | |
| | | 17846 | 52.77 | -21.23 | 74 | 41.44 | 41.9 | 25.5 | 56.07 | - | - | P | H | |
| | | 17846 | 41.68 | -12.32 | 54 | 30.35 | 41.9 | 25.5 | 56.07 | - | - | A | H | |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | 10440 | 54 | -14.2 | 68.2 | 56.97 | 37.6 | 18.64 | 59.21 | - | - | P | V |
| | | | 13336 | 47.63 | -26.37 | 74 | 45.63 | 39.02 | 21.19 | 58.21 | - | - | P | V |
| | | | 14480 | 48.04 | -25.96 | 74 | 44.56 | 39.28 | 22.29 | 58.09 | - | - | P | V |
| | | | 14480 | 38.1 | -15.9 | 54 | 34.62 | 39.28 | 22.29 | 58.09 | - | - | A | V |
| | | | 15660 | 62.23 | -11.77 | 74 | 55.5 | 40.4 | 23.45 | 57.12 | 201 | 304 | P | V |
| | | | 15660 | 51.94 | -2.06 | 54 | 45.21 | 40.4 | 23.45 | 57.12 | 201 | 304 | A | V |
| | | | 17802 | 52.28 | -21.72 | 74 | 41.02 | 41.9 | 25.46 | 56.1 | - | - | P | V |
| | | 17802 | 41.85 | -12.15 | 54 | 30.59 | 41.9 | 25.46 | 56.1 | - | - | A | V | |
| | | | | | | | | | | | | | V | |
| | | | | | | | | | | | | | V | |
| | | | | | | | | | | | | | V | |
| | | | | | | | | | | | | | V | |



| WIFI Ant. 1+2+3+4 | 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 | | 10440 | 59 | -9.2 | 68.2 | 61.97 | 37.6 | 18.64 | 59.21 | - | - | P | H | |
| | | 13325 | 47.88 | -26.12 | 74 | 45.85 | 39.06 | 21.18 | 58.21 | - | - | P | H | |
| | | 14491 | 48.03 | -25.97 | 74 | 44.52 | 39.3 | 22.3 | 58.09 | - | - | P | H | |
| | | 14491 | 37.53 | -16.47 | 54 | 34.02 | 39.3 | 22.3 | 58.09 | - | - | A | H | |
| | | 15660 | 65.32 | -8.68 | 74 | 58.59 | 40.4 | 23.45 | 57.12 | 285 | 265 | P | H | |
| | | 15660 | 51.92 | -2.08 | 54 | 45.19 | 40.4 | 23.45 | 57.12 | 285 | 265 | A | H | |
| | | 17824 | 52.51 | -21.49 | 74 | 41.22 | 41.9 | 25.48 | 56.09 | - | - | P | H | |
| | | 17824 | 41.97 | -12.03 | 54 | 30.68 | 41.9 | 25.48 | 56.09 | - | - | A | H | |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| Partial BE CH 44 5220MHz | | 10440 | 55.3 | -12.9 | 68.2 | 58.27 | 37.6 | 18.64 | 59.21 | - | - | P | V | |
| | | 13358 | 48.09 | -25.91 | 74 | 46.12 | 38.98 | 21.21 | 58.22 | - | - | P | V | |
| | | 13358 | 37.5 | -16.5 | 54 | 35.53 | 38.98 | 21.21 | 58.22 | - | - | A | V | |
| | | 14491 | 47.78 | -26.22 | 74 | 44.27 | 39.3 | 22.3 | 58.09 | - | - | P | V | |
| | | 15660 | 64.98 | -9.02 | 74 | 58.25 | 40.4 | 23.45 | 57.12 | 200 | 303 | P | V | |
| | | 15660 | 51.77 | -2.23 | 54 | 45.04 | 40.4 | 23.45 | 57.12 | 200 | 303 | A | V | |
| | | 17912 | 52.64 | -21.36 | 74 | 41.2 | 41.9 | 25.57 | 56.03 | - | - | P | V | |
| | | 17912 | 42.19 | -11.81 | 54 | 30.75 | 41.9 | 25.57 | 56.03 | - | - | A | V | |
| | | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | | V |



| WIFI Ant. 1+2+3+4 | 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 | 59.73 | -8.47 | 68.2 | 62.62 | 37.6 | 18.67 | 59.16 | - | - | P | H |
| | | 13391 | 48.54 | -25.46 | 74 | 46.63 | 38.9 | 21.24 | 58.23 | - | - | P | H |
| | | 13391 | 37.74 | -16.26 | 54 | 35.83 | 38.9 | 21.24 | 58.23 | - | - | A | H |
| | | 14499 | 47.77 | -26.23 | 74 | 44.25 | 39.3 | 22.31 | 58.09 | - | - | P | H |
| | | 15720 | 65.69 | -8.31 | 74 | 58.64 | 40.62 | 23.5 | 57.07 | 293 | 265 | P | H |
| | | 15720 | 52.18 | -1.82 | 54 | 45.13 | 40.62 | 23.5 | 57.07 | 293 | 265 | A | H |
| | | 17989 | 52.56 | -21.44 | 74 | 41.01 | 41.9 | 25.64 | 55.99 | - | - | P | H |
| | | 17989 | 42.45 | -11.55 | 54 | 30.9 | 41.9 | 25.64 | 55.99 | - | - | A | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| 802.11ax | | | | | | | | | | | | | H |
| HE20 | | | | | | | | | | | | | H |
| Partial M | | | | | | | | | | | | | H |
| CH 48 | | 10480 | 59.73 | -8.47 | 68.2 | 62.62 | 37.6 | 18.67 | 59.16 | - | - | P | V |
| 5240MHz | | 13358 | 47.5 | -26.5 | 74 | 45.53 | 38.98 | 21.21 | 58.22 | - | - | P | V |
| | | 14499 | 48.05 | -25.95 | 74 | 44.52 | 39.3 | 22.32 | 58.09 | - | - | P | V |
| | | 14499 | 37.55 | -16.45 | 54 | 34.02 | 39.3 | 22.32 | 58.09 | - | - | A | V |
| | | 15720 | 63 | -11 | 74 | 55.95 | 40.62 | 23.5 | 57.07 | 199 | 308 | P | V |
| | | 15720 | 52.03 | -1.97 | 54 | 44.98 | 40.62 | 23.5 | 57.07 | 199 | 308 | A | V |
| | | 17879 | 52.09 | -21.91 | 74 | 40.71 | 41.9 | 25.53 | 56.05 | - | - | P | V |
| | | 17879 | 42.23 | -11.77 | 54 | 30.85 | 41.9 | 25.53 | 56.05 | - | - | A | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |



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

| WIFI Ant. 1+2+3+4 | 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 | | 5146.12 | 61.99 | -12.01 | 74 | 51.28 | 34.2 | 11.79 | 35.28 | 100 | 280 | P | H |
| | | 5147.42 | 52.54 | -1.46 | 54 | 41.83 | 34.2 | 11.79 | 35.28 | 100 | 280 | A | H |
| | * | 5190 | 116.13 | - | - | 105.29 | 34.27 | 11.84 | 35.27 | 100 | 241 | P | H |
| | * | 5190 | 106.69 | - | - | 95.85 | 34.27 | 11.84 | 35.27 | 100 | 241 | A | H |
| | | 5366.76 | 50.16 | -23.84 | 74 | 38.92 | 34.47 | 11.95 | 35.18 | 100 | 280 | P | H |
| | | 5381.04 | 41.94 | -12.06 | 54 | 30.62 | 34.53 | 11.96 | 35.17 | 100 | 280 | A | H |
| | | 5149.5 | 59.98 | -14.02 | 74 | 49.27 | 34.2 | 11.79 | 35.28 | 100 | 246 | P | V |
| | | 5149.76 | 52.16 | -1.84 | 54 | 41.45 | 34.2 | 11.79 | 35.28 | 100 | 246 | A | V |
| | * | 5190 | 110.92 | - | - | 100.08 | 34.27 | 11.84 | 35.27 | 329 | 261 | P | V |
| | * | 5190 | 103.16 | - | - | 92.32 | 34.27 | 11.84 | 35.27 | 329 | 261 | A | V |
| | | 5376.56 | 49.82 | -24.18 | 74 | 38.56 | 34.47 | 11.96 | 35.17 | 100 | 246 | P | V |
| | | 5375.44 | 41.47 | -12.53 | 54 | 30.21 | 34.47 | 11.96 | 35.17 | 100 | 246 | A | V |
| 802.11ax HE40 Full CH 46 5230MHz | | 5150 | 51.51 | -22.49 | 74 | 40.8 | 34.2 | 11.79 | 35.28 | 100 | 280 | P | H |
| | | 5150 | 43.65 | -10.35 | 54 | 32.94 | 34.2 | 11.79 | 35.28 | 100 | 280 | A | H |
| | * | 5230 | 115.23 | - | - | 104.3 | 34.3 | 11.87 | 35.24 | 100 | 240 | P | H |
| | * | 5230 | 106.13 | - | - | 95.2 | 34.3 | 11.87 | 35.24 | 100 | 240 | A | H |
| | | 5376 | 49.27 | -24.73 | 74 | 38.01 | 34.47 | 11.96 | 35.17 | 100 | 280 | P | H |
| | | 5376 | 40.78 | -13.22 | 54 | 29.52 | 34.47 | 11.96 | 35.17 | 100 | 280 | A | H |
| | | 5146.12 | 48.73 | -25.27 | 74 | 38.02 | 34.2 | 11.79 | 35.28 | 106 | 322 | P | V |
| | | 5150 | 40.63 | -13.37 | 54 | 29.92 | 34.2 | 11.79 | 35.28 | 106 | 322 | A | V |
| | * | 5230 | 108.63 | - | - | 97.7 | 34.3 | 11.87 | 35.24 | 106 | 322 | P | V |
| | * | 5230 | 101.63 | - | - | 90.7 | 34.3 | 11.87 | 35.24 | 106 | 322 | A | V |
| | 5395.32 | 47.69 | -26.31 | 74 | 36.29 | 34.6 | 11.97 | 35.17 | 106 | 322 | P | V | |
| | 5408.2 | 39.44 | -14.56 | 54 | 28.02 | 34.6 | 11.98 | 35.16 | 106 | 322 | A | V | |
| Remark | 1. No other spurious found. 2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |



| WIFI Ant. 1+2+3+4 | 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 46 5230MHz | | 10460 | 55.79 | -12.41 | 68.2 | 58.73 | 37.6 | 18.65 | 59.19 | - | - | P | H | |
| | | 13380 | 47.01 | -26.99 | 74 | 45.07 | 38.94 | 21.23 | 58.23 | - | - | P | H | |
| | | 14491 | 46.9 | -27.1 | 74 | 43.39 | 39.3 | 22.3 | 58.09 | - | - | P | H | |
| | | 15690 | 61.41 | -12.59 | 74 | 54.5 | 40.53 | 23.48 | 57.1 | 301 | 204 | P | H | |
| | | 15690 | 52.57 | -1.43 | 54 | 45.66 | 40.53 | 23.48 | 57.1 | 301 | 204 | A | H | |
| | | 17868 | 51.26 | -22.74 | 74 | 39.9 | 41.9 | 25.52 | 56.06 | - | - | P | H | |
| | | 17868 | 41.47 | -12.53 | 54 | 30.11 | 41.9 | 25.52 | 56.06 | - | - | A | H | |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | 10460 | 51.44 | -16.76 | 68.2 | 54.38 | 37.6 | 18.65 | 59.19 | - | - | P | V |
| | | | 13391 | 46.7 | -27.3 | 74 | 44.79 | 38.9 | 21.24 | 58.23 | - | - | P | V |
| | | | 14502 | 47.09 | -21.11 | 68.2 | 43.56 | 39.3 | 22.32 | 58.09 | - | - | P | V |
| | | | 15690 | 60.37 | -13.63 | 74 | 53.46 | 40.53 | 23.48 | 57.1 | 190 | 311 | P | V |
| | | | 15690 | 52.2 | -1.8 | 54 | 45.29 | 40.53 | 23.48 | 57.1 | 190 | 311 | A | V |
| | | | 17934 | 51.41 | -22.59 | 74 | 39.94 | 41.9 | 25.59 | 56.02 | - | - | P | V |
| | | 17934 | 41.53 | -12.47 | 54 | 30.06 | 41.9 | 25.59 | 56.02 | - | - | A | V | |
| | | | | | | | | | | | | | V | |
| | | | | | | | | | | | | | V | |
| | | | | | | | | | | | | | V | |
| | | | | | | | | | | | | | V | |
| | | | | | | | | | | | | | V | |
| Remark | <ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. The emission level close to 18GHz is checked that the average emission level is noise floor only. | | | | | | | | | | | | | |



Band 1 5150~5250MHz
WIFI 802.11ax HE40 Partial RU (Band Edge @ 3m)

| WIFI Ant. 1+2+3+4 | 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 Partial M CH 38 5190MHz | | 5144.56 | 55.46 | -18.54 | 74 | 44.75 | 34.2 | 11.79 | 35.28 | 100 | 265 | P | H | |
| | | 5145.86 | 49.36 | -4.64 | 54 | 38.65 | 34.2 | 11.79 | 35.28 | 100 | 265 | A | H | |
| | * | 5190 | 110.77 | - | - | 99.93 | 34.27 | 11.84 | 35.27 | 100 | 238 | P | H | |
| | * | 5190 | 103.54 | - | - | 92.7 | 34.27 | 11.84 | 35.27 | 100 | 238 | A | H | |
| | | 5437.88 | 50.34 | -23.66 | 74 | 38.85 | 34.6 | 12.03 | 35.14 | 100 | 265 | P | H | |
| | | 5359.76 | 41.91 | -12.09 | 54 | 30.74 | 34.4 | 11.95 | 35.18 | 100 | 265 | A | H | |
| | | 5144.82 | 58.21 | -15.79 | 74 | 47.5 | 34.2 | 11.79 | 35.28 | 100 | 244 | P | V | |
| | | 5149.24 | 49.33 | -4.67 | 54 | 38.62 | 34.2 | 11.79 | 35.28 | 100 | 244 | A | V | |
| | * | 5190 | 108.54 | - | - | 97.7 | 34.27 | 11.84 | 35.27 | 100 | 244 | P | V | |
| | * | 5190 | 98.71 | - | - | 87.87 | 34.27 | 11.84 | 35.27 | 100 | 244 | A | V | |
| | | 5404.56 | 49.1 | -24.9 | 74 | 37.68 | 34.6 | 11.98 | 35.16 | 100 | 244 | P | V | |
| | | 5372.36 | 41.34 | -12.66 | 54 | 30.1 | 34.47 | 11.95 | 35.18 | 100 | 244 | A | V | |
| | 802.11ax HE40 Partial BE CH 38 5190MHz | | 5139.36 | 67.01 | -6.99 | 74 | 56.32 | 34.2 | 11.78 | 35.29 | 100 | 268 | P | H |
| | | | 5150 | 50.83 | -3.17 | 54 | 40.12 | 34.2 | 11.79 | 35.28 | 100 | 268 | A | H |
| * | | 5190 | 114.94 | - | - | 104.1 | 34.27 | 11.84 | 35.27 | 100 | 240 | P | H | |
| * | | 5190 | 106.94 | - | - | 96.1 | 34.27 | 11.84 | 35.27 | 100 | 240 | A | H | |
| | | 5372.64 | 50.25 | -23.75 | 74 | 39.01 | 34.47 | 11.95 | 35.18 | 100 | 240 | P | H | |
| | | 5376.28 | 42.46 | -11.54 | 54 | 31.2 | 34.47 | 11.96 | 35.17 | 100 | 240 | A | H | |
| | | 5149.76 | 54.23 | -19.77 | 74 | 43.52 | 34.2 | 11.79 | 35.28 | 100 | 243 | P | V | |
| | | 5142.74 | 46.67 | -7.33 | 54 | 35.98 | 34.2 | 11.78 | 35.29 | 100 | 243 | A | V | |
| * | | 5190 | 112.04 | - | - | 101.2 | 34.27 | 11.84 | 35.27 | 100 | 243 | P | V | |
| * | | 5190 | 103.44 | - | - | 92.6 | 34.27 | 11.84 | 35.27 | 100 | 243 | A | V | |
| | | 5360.32 | 49.42 | -24.58 | 74 | 38.25 | 34.4 | 11.95 | 35.18 | 100 | 243 | P | V | |
| | 5386.08 | 41.41 | -12.59 | 54 | 30.09 | 34.53 | 11.96 | 35.17 | 100 | 243 | A | V | | |



| WIFI Ant. 1+2+3+4 | 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 Partial M CH 46 5230MHz | | 5145.86 | 53.21 | -20.79 | 74 | 42.5 | 34.2 | 11.79 | 35.28 | 100 | 240 | P | H |
| | | 5147.42 | 46.56 | -7.44 | 54 | 35.85 | 34.2 | 11.79 | 35.28 | 100 | 240 | A | H |
| | * | 5230 | 114.08 | - | - | 103.15 | 34.3 | 11.87 | 35.24 | 100 | 240 | P | H |
| | * | 5230 | 106.63 | - | - | 95.7 | 34.3 | 11.87 | 35.24 | 100 | 240 | A | H |
| | | 5391.68 | 51.05 | -22.95 | 74 | 39.72 | 34.53 | 11.97 | 35.17 | 100 | 240 | P | H |
| | | 5436.48 | 43.17 | -10.83 | 54 | 31.68 | 34.6 | 12.03 | 35.14 | 100 | 240 | A | H |
| | | 5150 | 57.44 | -16.56 | 74 | 46.73 | 34.2 | 11.79 | 35.28 | 109 | 220 | P | V |
| | | 5149.76 | 44.49 | -9.51 | 54 | 33.78 | 34.2 | 11.79 | 35.28 | 109 | 220 | A | V |
| | * | 5230 | 109.79 | - | - | 98.86 | 34.3 | 11.87 | 35.24 | 109 | 220 | P | V |
| | * | 5230 | 102.09 | - | - | 91.16 | 34.3 | 11.87 | 35.24 | 109 | 220 | A | V |
| | | 5401.76 | 49.86 | -24.14 | 74 | 38.45 | 34.6 | 11.97 | 35.16 | 109 | 220 | P | V |
| | 5376 | 41.81 | -12.19 | 54 | 30.55 | 34.47 | 11.96 | 35.17 | 109 | 220 | A | V | |
| 802.11ax HE40 Partial BE CH 46 5230MHz | | 5144.82 | 50.8 | -23.2 | 74 | 40.09 | 34.2 | 11.79 | 35.28 | 100 | 245 | P | H |
| | | 5149.76 | 42.33 | -11.67 | 54 | 31.62 | 34.2 | 11.79 | 35.28 | 100 | 245 | A | H |
| | * | 5230 | 114.83 | - | - | 103.9 | 34.3 | 11.87 | 35.24 | 100 | 245 | P | H |
| | * | 5230 | 107.13 | - | - | 96.2 | 34.3 | 11.87 | 35.24 | 100 | 245 | A | H |
| | | 5414.92 | 51.06 | -22.94 | 74 | 39.63 | 34.6 | 11.99 | 35.16 | 100 | 245 | P | H |
| | | 5415.76 | 42.78 | -11.22 | 54 | 31.35 | 34.6 | 11.99 | 35.16 | 100 | 245 | A | H |
| | | 5143.78 | 48.79 | -25.21 | 74 | 38.08 | 34.2 | 11.79 | 35.28 | 106 | 240 | P | V |
| | | 5150 | 41.05 | -12.95 | 54 | 30.34 | 34.2 | 11.79 | 35.28 | 106 | 240 | A | V |
| | * | 5230 | 111.97 | - | - | 101.04 | 34.3 | 11.87 | 35.24 | 106 | 240 | P | V |
| | * | 5230 | 103.63 | - | - | 92.7 | 34.3 | 11.87 | 35.24 | 106 | 240 | A | V |
| | | 5356.12 | 50.35 | -23.65 | 74 | 39.19 | 34.4 | 11.94 | 35.18 | 106 | 240 | P | V |
| | 5376.28 | 41.37 | -12.63 | 54 | 30.11 | 34.47 | 11.96 | 35.17 | 106 | 240 | A | V | |
| Remark | 1. No other spurious found. 2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |



| WIFI Ant. 1+2+3+4 | 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 | 56.92 | -11.28 | 68.2 | 60.03 | 37.58 | 18.59 | 59.28 | - | - | P | H |
| | | 13369 | 48.15 | -25.85 | 74 | 46.21 | 38.94 | 21.22 | 58.22 | - | - | P | H |
| | | 13369 | 37.48 | -16.52 | 54 | 35.54 | 38.94 | 21.22 | 58.22 | - | - | A | H |
| | | 14480 | 48.25 | -25.75 | 74 | 44.77 | 39.28 | 22.29 | 58.09 | - | - | P | H |
| | | 14480 | 37.54 | -16.46 | 54 | 34.06 | 39.28 | 22.29 | 58.09 | - | - | A | H |
| | | 15570 | 63.56 | -10.44 | 74 | 57.17 | 40.23 | 23.36 | 57.2 | 258 | 202 | P | H |
| | | 15570 | 52.06 | -1.94 | 54 | 45.67 | 40.23 | 23.36 | 57.2 | 258 | 202 | A | H |
| | | 17758 | 52.85 | -21.15 | 74 | 41.68 | 41.87 | 25.43 | 56.13 | - | - | P | H |
| | | 17758 | 41.77 | -12.23 | 54 | 30.6 | 41.87 | 25.43 | 56.13 | - | - | A | H |
| | | | | | | | | | | | | | H |
| 802.11ax | | | | | | | | | | | | | H |
| HE40 | | | | | | | | | | | | | H |
| Partial BE | | | | | | | | | | | | | |
| CH 38 | | 10380 | 52.53 | -15.67 | 68.2 | 55.64 | 37.58 | 18.59 | 59.28 | - | - | P | V |
| 5190MHz | | 13325 | 47.28 | -26.72 | 74 | 45.25 | 39.06 | 21.18 | 58.21 | - | - | P | V |
| | | 14499 | 47.66 | -26.34 | 74 | 44.14 | 39.3 | 22.31 | 58.09 | - | - | P | V |
| | | 15570 | 61 | -13 | 74 | 54.61 | 40.23 | 23.36 | 57.2 | 200 | 302 | P | V |
| | | 15570 | 52.04 | -1.96 | 54 | 45.65 | 40.23 | 23.36 | 57.2 | 200 | 302 | A | V |
| | | 17769 | 52.48 | -21.52 | 74 | 41.29 | 41.87 | 25.44 | 56.12 | - | - | P | V |
| | | 17769 | 41.94 | -12.06 | 54 | 30.75 | 41.87 | 25.44 | 56.12 | - | - | A | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |



| WIFI Ant. 1+2+3+4 | 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 | 60.15 | -8.05 | 68.2 | 63.09 | 37.6 | 18.65 | 59.19 | - | - | P | H |
| | | 13391 | 48.07 | -25.93 | 74 | 46.16 | 38.9 | 21.24 | 58.23 | - | - | P | H |
| | | 13391 | 37.47 | -16.53 | 54 | 35.56 | 38.9 | 21.24 | 58.23 | - | - | A | H |
| | | 14499 | 48.32 | -25.68 | 74 | 44.8 | 39.3 | 22.31 | 58.09 | - | - | P | H |
| | | 14499 | 37.78 | -16.22 | 54 | 34.26 | 39.3 | 22.31 | 58.09 | - | - | A | H |
| | | 15690 | 62.49 | -11.51 | 74 | 55.58 | 40.53 | 23.48 | 57.1 | 298 | 200 | P | H |
| | | 15690 | 52.01 | -1.99 | 54 | 45.1 | 40.53 | 23.48 | 57.1 | 298 | 200 | A | H |
| | | 17780 | 52.17 | -21.83 | 74 | 40.95 | 41.88 | 25.45 | 56.11 | - | - | P | H |
| | | 17780 | 41.75 | -12.25 | 54 | 30.53 | 41.88 | 25.45 | 56.11 | - | - | A | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| 802.11ax | | | | | | | | | | | | | |
| HE40 | | | | | | | | | | | | | |
| Partial M | | 10460 | 54.7 | -13.5 | 68.2 | 57.64 | 37.6 | 18.65 | 59.19 | - | - | P | H |
| CH 46 | | 13380 | 47.98 | -26.02 | 74 | 46.04 | 38.94 | 21.23 | 58.23 | - | - | P | V |
| 5230MHz | | 14499 | 48.05 | -25.95 | 74 | 44.53 | 39.3 | 22.31 | 58.09 | - | - | P | V |
| | | 14499 | 37.62 | -16.38 | 54 | 34.1 | 39.3 | 22.31 | 58.09 | - | - | A | V |
| | | 15690 | 62.16 | -11.84 | 74 | 55.25 | 40.53 | 23.48 | 57.1 | 200 | 307 | P | V |
| | | 15690 | 51.77 | -2.23 | 54 | 44.86 | 40.53 | 23.48 | 57.1 | 200 | 307 | A | V |
| | | 17802 | 52.15 | -21.85 | 74 | 40.89 | 41.9 | 25.46 | 56.1 | - | - | P | V |
| | | 17802 | 42.07 | -11.93 | 54 | 30.81 | 41.9 | 25.46 | 56.1 | - | - | A | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |



| WIFI Ant. 1+2+3+4 | 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 | 52.19 | -16.01 | 68.2 | 55.13 | 37.6 | 18.65 | 59.19 | - | - | P | H |
| | | 13380 | 46.85 | -27.15 | 74 | 44.91 | 38.94 | 21.23 | 58.23 | - | - | P | H |
| | | 14499 | 48.22 | -25.78 | 74 | 44.69 | 39.3 | 22.32 | 58.09 | - | - | P | H |
| | | 14499 | 37.97 | -16.03 | 54 | 34.44 | 39.3 | 22.32 | 58.09 | - | - | A | H |
| | | 15690 | 65.05 | -8.95 | 74 | 58.14 | 40.53 | 23.48 | 57.1 | 254 | 199 | P | H |
| | | 15690 | 52.71 | -1.29 | 54 | 45.8 | 40.53 | 23.48 | 57.1 | 254 | 199 | A | H |
| | | 17769 | 51.37 | -22.63 | 74 | 40.18 | 41.87 | 25.44 | 56.12 | - | - | P | H |
| | | 17769 | 41.7 | -12.3 | 54 | 30.51 | 41.87 | 25.44 | 56.12 | - | - | A | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| 802.11ax | | | | | | | | | | | | | H |
| HE40 | | | | | | | | | | | | | H |
| Partial BE | | | | | | | | | | | | | H |
| CH 46 | | 10460 | 51.94 | -16.26 | 68.2 | 54.88 | 37.6 | 18.65 | 59.19 | - | - | P | V |
| 5230MHz | | 13358 | 47.37 | -26.63 | 74 | 45.4 | 38.98 | 21.21 | 58.22 | - | - | P | V |
| | | 14480 | 48.9 | -25.1 | 74 | 45.42 | 39.28 | 22.29 | 58.09 | - | - | P | V |
| | | 14480 | 37.99 | -16.01 | 54 | 34.51 | 39.28 | 22.29 | 58.09 | - | - | A | V |
| | | 15690 | 64.63 | -9.37 | 74 | 57.72 | 40.53 | 23.48 | 57.1 | 200 | 305 | P | V |
| | | 15690 | 52.41 | -1.59 | 54 | 45.5 | 40.53 | 23.48 | 57.1 | 200 | 305 | A | V |
| | | 17714 | 52.51 | -21.49 | 74 | 41.45 | 41.82 | 25.39 | 56.15 | - | - | P | V |
| | | 17714 | 41.97 | -12.03 | 54 | 30.91 | 41.82 | 25.39 | 56.15 | - | - | A | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| Remark | <ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. The emission level close to 18GHz is checked that the average emission level is noise floor only. | | | | | | | | | | | | |



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

| WIFI Ant. 1+2+3+4 | 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 | | 5143.26 | 58.95 | -15.05 | 74 | 48.26 | 34.2 | 11.78 | 35.29 | 100 | 277 | P | H |
| | | 5141.96 | 51.88 | -2.12 | 54 | 41.19 | 34.2 | 11.78 | 35.29 | 100 | 277 | A | H |
| | * | 5210 | 112.04 | - | - | 101.13 | 34.3 | 11.86 | 35.25 | 100 | 245 | P | H |
| | * | 5210 | 102.97 | - | - | 92.06 | 34.3 | 11.86 | 35.25 | 100 | 245 | A | H |
| | | 5423.6 | 49.68 | -24.32 | 74 | 38.23 | 34.6 | 12.01 | 35.16 | 100 | 277 | P | H |
| | | 5369 | 42.05 | -11.95 | 54 | 30.81 | 34.47 | 11.95 | 35.18 | 100 | 277 | A | H |
| | | 5148.46 | 58.89 | -15.11 | 74 | 48.18 | 34.2 | 11.79 | 35.28 | 100 | 245 | P | V |
| | | 5149.76 | 51.73 | -2.27 | 54 | 41.02 | 34.2 | 11.79 | 35.28 | 100 | 245 | A | V |
| | * | 5210 | 107.08 | - | - | 96.17 | 34.3 | 11.86 | 35.25 | 300 | 255 | P | V |
| | * | 5210 | 98.62 | - | - | 87.71 | 34.3 | 11.86 | 35.25 | 300 | 255 | A | V |
| | | 5384.12 | 49.25 | -24.75 | 74 | 37.93 | 34.53 | 11.96 | 35.17 | 100 | 245 | P | V |
| | | 5360.6 | 41.37 | -12.63 | 54 | 30.13 | 34.47 | 11.95 | 35.18 | 100 | 245 | A | V |
| Remark | 1. No other spurious found. 2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |



Band 1 5150~5250MHz
WIFI 802.11ax HE80 Partial RU (Band Edge @ 3m)

| WIFI Ant. 1+2+3+4 | 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 Partial M CH 42 5210MHz | | 5146.64 | 63.64 | -10.36 | 74 | 52.93 | 34.2 | 11.79 | 35.28 | 100 | 245 | P | H | |
| | | 5137.02 | 51.87 | -2.13 | 54 | 41.18 | 34.2 | 11.78 | 35.29 | 100 | 245 | A | H | |
| | * | 5210 | 110.64 | - | - | 99.73 | 34.3 | 11.86 | 35.25 | 100 | 245 | P | H | |
| | * | 5210 | 101.96 | - | - | 91.05 | 34.3 | 11.86 | 35.25 | 100 | 245 | A | H | |
| | | 5367.04 | 50.45 | -23.55 | 74 | 39.21 | 34.47 | 11.95 | 35.18 | 100 | 245 | P | H | |
| | | 5365.36 | 45.71 | -8.29 | 54 | 34.47 | 34.47 | 11.95 | 35.18 | 100 | 245 | A | H | |
| | | 5133.12 | 55.54 | -18.46 | 74 | 44.86 | 34.2 | 11.77 | 35.29 | 100 | 322 | P | V | |
| | | 5134.68 | 45.7 | -8.3 | 54 | 35.02 | 34.2 | 11.77 | 35.29 | 100 | 322 | A | V | |
| | * | 5210 | 104.56 | - | - | 93.65 | 34.3 | 11.86 | 35.25 | 100 | 322 | P | V | |
| | * | 5210 | 97.55 | - | - | 86.64 | 34.3 | 11.86 | 35.25 | 100 | 322 | A | V | |
| | | 5361.72 | 50.32 | -23.68 | 74 | 39.08 | 34.47 | 11.95 | 35.18 | 100 | 322 | P | V | |
| | | 5363.68 | 42.73 | -11.27 | 54 | 31.49 | 34.47 | 11.95 | 35.18 | 100 | 322 | A | V | |
| | 802.11ax HE80 Partial BE CH 42 5210MHz | | 5143.78 | 56.07 | -17.93 | 74 | 45.36 | 34.2 | 11.79 | 35.28 | 100 | 244 | P | H |
| | | | 5138.32 | 52.69 | -1.31 | 54 | 42 | 34.2 | 11.78 | 35.29 | 100 | 244 | A | H |
| * | | 5210 | 108.94 | - | - | 98.03 | 34.3 | 11.86 | 35.25 | 100 | 244 | P | H | |
| * | | 5210 | 101.71 | - | - | 90.8 | 34.3 | 11.86 | 35.25 | 100 | 244 | A | H | |
| | | 5381.32 | 51.66 | -22.34 | 74 | 40.34 | 34.53 | 11.96 | 35.17 | 100 | 244 | P | H | |
| | | 5375.44 | 43.23 | -10.77 | 54 | 31.97 | 34.47 | 11.96 | 35.17 | 100 | 244 | A | H | |
| | | 5141.96 | 55.49 | -18.51 | 74 | 44.8 | 34.2 | 11.78 | 35.29 | 111 | 236 | P | V | |
| | | 5150 | 46.6 | -7.4 | 54 | 35.89 | 34.2 | 11.79 | 35.28 | 111 | 236 | A | V | |
| * | | 5210 | 107.39 | - | - | 96.48 | 34.3 | 11.86 | 35.25 | 111 | 236 | P | V | |
| * | | 5210 | 99.9 | - | - | 88.99 | 34.3 | 11.86 | 35.25 | 111 | 236 | A | V | |
| | | 5411.84 | 50.78 | -23.22 | 74 | 39.35 | 34.6 | 11.99 | 35.16 | 111 | 236 | P | V | |
| | 5350.52 | 41.9 | -12.1 | 54 | 30.74 | 34.4 | 11.94 | 35.18 | 111 | 236 | A | V | | |
| Remark | 1. No other spurious found. 2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | | |



Emission above 18GHz

WIFI 802.11ax HE20 Full (SHF @ 1m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Path | Preamp | Ant | Table | Peak | Pol. |
|------------------------------|---|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1+2+3+4 | | (MHz) | (dBμV/m) | (dB) | (dBμV/m) | (dBμV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| 802.11ax HE20 Full SHF | | 39494 | 42.83 | -31.17 | 74 | 45.73 | 44.4 | 11.91 | 59.21 | - | - | P | H |
| | | | | | | | | | | | | | H |
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| | | | 39868 | 42.78 | -31.22 | 74 | 44.58 | 44.6 | 12.06 | 58.46 | - | - | P |
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| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | 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 with sufficient margin against limit line or noise floor only. | | | | | | | | | | | | |



<TXBF Mode>

Band 1 - 5150~5250MHz

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

| WIFI Ant. | Note | Frequency | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Path Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol. | |
|---|------|-----------|------------|------------|------------|------------|----------------|-----------|---------------|---------|-----------|-----------|---------|---|
| 1+2+3+4 | | (MHz) | (dBμV/m) | (dB) | (dBμV/m) | (dBμV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) | |
| 802.11ax HE20 Full CH 36 5180MHz | | 5148.72 | 53.67 | -20.33 | 74 | 42.96 | 34.2 | 11.79 | 35.28 | 100 | 303 | P | H | |
| | | 5149.76 | 47.87 | -6.13 | 54 | 37.16 | 34.2 | 11.79 | 35.28 | 100 | 303 | A | H | |
| | * | 5180 | 115.02 | - | - | 104.19 | 34.27 | 11.83 | 35.27 | 100 | 303 | P | H | |
| | * | 5180 | 107.32 | - | - | 96.49 | 34.27 | 11.83 | 35.27 | 100 | 303 | A | H | |
| | | | | | | | | | | | | | H | |
| | | | | | | | | | | | | | | H |
| | | | 5144.04 | 52.86 | -21.14 | 74 | 42.15 | 34.2 | 11.79 | 35.28 | 100 | 235 | P | V |
| | | | 5143.78 | 46.88 | -7.12 | 54 | 36.17 | 34.2 | 11.79 | 35.28 | 100 | 235 | A | V |
| | | * | 5180 | 115.35 | - | - | 104.52 | 34.27 | 11.83 | 35.27 | 100 | 235 | P | V |
| | | * | 5180 | 107.09 | - | - | 96.26 | 34.27 | 11.83 | 35.27 | 100 | 235 | A | V |
| | | | | | | | | | | | | | V | |
| | | | | | | | | | | | | | V | |
| 802.11ax HE20 Full CH 44 5220MHz | | 5026.26 | 50.52 | -23.48 | 74 | 39.96 | 34.25 | 11.65 | 35.34 | 100 | 323 | P | H | |
| | | 5147.16 | 41.77 | -12.23 | 54 | 30.86 | 34.4 | 11.79 | 35.28 | 100 | 323 | A | H | |
| | * | 5220 | 116 | - | - | 104.83 | 34.56 | 11.86 | 35.25 | 100 | 323 | P | H | |
| | * | 5220 | 108.46 | - | - | 97.29 | 34.56 | 11.86 | 35.25 | 100 | 323 | A | H | |
| | | | 5407.36 | 50.78 | -23.22 | 74 | 39.17 | 34.79 | 11.98 | 35.16 | 100 | 323 | P | H |
| | | | 5408.76 | 42.36 | -11.64 | 54 | 30.76 | 34.78 | 11.98 | 35.16 | 100 | 323 | A | H |
| | | | 5059.8 | 50.44 | -23.56 | 74 | 39.84 | 34.24 | 11.69 | 35.33 | 233 | 243 | P | V |
| | | | 5149.5 | 41.58 | -12.42 | 54 | 30.67 | 34.4 | 11.79 | 35.28 | 233 | 243 | A | V |
| | | * | 5220 | 113.4 | - | - | 102.23 | 34.56 | 11.86 | 35.25 | 233 | 243 | P | V |
| | | * | 5220 | 106.03 | - | - | 94.86 | 34.56 | 11.86 | 35.25 | 233 | 243 | A | V |
| | | 5442.08 | 49.94 | -24.06 | 74 | 38.32 | 34.72 | 12.04 | 35.14 | 233 | 243 | P | V | |
| | | 5419.96 | 41.6 | -12.4 | 54 | 30 | 34.76 | 12 | 35.16 | 233 | 243 | A | V | |



| | | | | | | | | | | | | | |
|---|---|---------|--------|--------|----|--------|-------|-------|-------|-----|-----|---|---|
| 802.11ax HE20 Full CH 48 5240MHz | | 5135.2 | 50.61 | -23.39 | 74 | 39.72 | 34.4 | 11.78 | 35.29 | 100 | 340 | P | H |
| | | 5141.18 | 41.8 | -12.2 | 54 | 30.91 | 34.4 | 11.78 | 35.29 | 100 | 340 | A | H |
| | * | 5240 | 116.11 | - | - | 104.96 | 34.52 | 11.87 | 35.24 | 100 | 340 | P | H |
| | * | 5240 | 108.63 | - | - | 97.48 | 34.52 | 11.87 | 35.24 | 100 | 340 | A | H |
| | | 5419.96 | 50.78 | -23.22 | 74 | 39.18 | 34.76 | 12 | 35.16 | 100 | 340 | P | H |
| | | 5430.32 | 42.58 | -11.42 | 54 | 30.96 | 34.74 | 12.02 | 35.14 | 100 | 340 | A | H |
| | | 5056.94 | 49.75 | -24.25 | 74 | 39.16 | 34.23 | 11.69 | 35.33 | 100 | 243 | P | V |
| | | 5144.82 | 41.6 | -12.4 | 54 | 30.69 | 34.4 | 11.79 | 35.28 | 100 | 243 | A | V |
| | * | 5240 | 114.07 | - | - | 102.92 | 34.52 | 11.87 | 35.24 | 100 | 243 | P | V |
| | * | 5240 | 106.73 | - | - | 95.58 | 34.52 | 11.87 | 35.24 | 100 | 243 | A | V |
| | | 5393.36 | 50.62 | -23.38 | 74 | 39.07 | 34.75 | 11.97 | 35.17 | 100 | 243 | P | V |
| | | 5440.4 | 42.09 | -11.91 | 54 | 30.48 | 34.72 | 12.03 | 35.14 | 100 | 243 | A | V |
| Remark | 1. No other spurious found. 2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |



Band 1 5150~5250MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

| WIFI Ant. 1+2+3+4 | 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 | 56.33 | -11.87 | 68.2 | 59.41 | 37.66 | 18.57 | 59.31 | - | - | P | H |
| | | 13347 | 47.79 | -26.21 | 74 | 45.46 | 39.35 | 21.2 | 58.22 | - | - | P | H |
| | | 14499 | 48.2 | -25.8 | 74 | 44.28 | 39.7 | 22.31 | 58.09 | - | - | P | H |
| | | 14499 | 38.82 | -15.18 | 54 | 34.9 | 39.7 | 22.31 | 58.09 | - | - | A | H |
| | | 15540 | 48.18 | -25.82 | 74 | 40.98 | 41.1 | 23.33 | 57.23 | - | - | P | H |
| | | 15540 | 38.05 | -15.95 | 54 | 30.85 | 41.1 | 23.33 | 57.23 | - | - | A | H |
| | | 17714 | 52.73 | -21.27 | 74 | 41.52 | 41.97 | 25.39 | 56.15 | - | - | P | H |
| | | 17714 | 42.81 | -11.19 | 54 | 31.6 | 41.97 | 25.39 | 56.15 | - | - | A | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| 802.11ax | | | | | | | | | | | | | H |
| HE20 Full | | | | | | | | | | | | | H |
| CH 36 | | | | | | | | | | | | | |
| 5180MHz | | 10360 | 54.18 | -14.02 | 68.2 | 57.26 | 37.66 | 18.57 | 59.31 | - | - | P | V |
| | | 13314 | 48.04 | -25.96 | 74 | 45.69 | 39.39 | 21.17 | 58.21 | - | - | P | V |
| | | 13314 | 38.24 | -15.76 | 54 | 35.89 | 39.39 | 21.17 | 58.21 | - | - | A | V |
| | | 14499 | 48.02 | -25.98 | 74 | 44.1 | 39.7 | 22.31 | 58.09 | - | - | P | V |
| | | 14499 | 38.22 | -15.78 | 54 | 34.3 | 39.7 | 22.31 | 58.09 | - | - | A | V |
| | | 15540 | 47.06 | -26.94 | 74 | 39.86 | 41.1 | 23.33 | 57.23 | - | - | P | V |
| | | 17769 | 51.84 | -22.16 | 74 | 40.66 | 41.86 | 25.44 | 56.12 | - | - | P | V |
| | | 17769 | 42.68 | -11.32 | 54 | 31.5 | 41.86 | 25.44 | 56.12 | - | - | A | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |



| WIFI Ant. 1+2+3+4 | 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 | 55.6 | -12.6 | 68.2 | 58.51 | 37.66 | 18.64 | 59.21 | - | - | P | H |
| | | 13358 | 48.66 | -25.34 | 74 | 46.33 | 39.34 | 21.21 | 58.22 | - | - | P | H |
| | | 13358 | 38.44 | -15.56 | 54 | 36.11 | 39.34 | 21.21 | 58.22 | - | - | A | H |
| | | 14480 | 48.38 | -25.62 | 74 | 44.54 | 39.64 | 22.29 | 58.09 | - | - | P | H |
| | | 14480 | 38.14 | -15.86 | 54 | 34.3 | 39.64 | 22.29 | 58.09 | - | - | A | H |
| | | 15660 | 48.52 | -25.48 | 74 | 41.03 | 41.16 | 23.45 | 57.12 | - | - | P | H |
| | | 15660 | 38.78 | -15.22 | 54 | 31.29 | 41.16 | 23.45 | 57.12 | - | - | A | H |
| | | 17725 | 52.56 | -21.44 | 74 | 41.36 | 41.95 | 25.4 | 56.15 | - | - | P | H |
| | | 17725 | 42.7 | -11.3 | 54 | 31.5 | 41.95 | 25.4 | 56.15 | - | - | A | H |
| | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | H |
| 802.11ax | | | | | | | | | | | | | H |
| HE20 Full | | | | | | | | | | | | | H |
| CH 44 | | 10440 | 54.07 | -14.13 | 68.2 | 56.98 | 37.66 | 18.64 | 59.21 | - | - | P | V |
| 5220MHz | | 13402 | 48.61 | -19.59 | 68.2 | 46.29 | 39.3 | 21.25 | 58.23 | - | - | P | V |
| | | 14491 | 48.72 | -25.28 | 74 | 44.84 | 39.67 | 22.3 | 58.09 | - | - | P | V |
| | | 14491 | 38.39 | -15.61 | 54 | 34.51 | 39.67 | 22.3 | 58.09 | - | - | A | V |
| | | 15660 | 48.28 | -25.72 | 74 | 40.79 | 41.16 | 23.45 | 57.12 | - | - | P | V |
| | | 15660 | 38.57 | -15.43 | 54 | 31.08 | 41.16 | 23.45 | 57.12 | - | - | A | V |
| | | 17934 | 52.26 | -21.74 | 74 | 40.82 | 41.87 | 25.59 | 56.02 | - | - | P | V |
| | | 17934 | 42.53 | -11.47 | 54 | 31.09 | 41.87 | 25.59 | 56.02 | - | - | A | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |
| | | | | | | | | | | | | | V |



| WiFi Ant. 1+2+3+4 | 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 48 5240MHz | | 10480 | 54.46 | -13.74 | 68.2 | 57.33 | 37.62 | 18.67 | 59.16 | - | - | P | H | |
| | | 13347 | 48.16 | -25.84 | 74 | 45.83 | 39.35 | 21.2 | 58.22 | - | - | P | H | |
| | | 13347 | 38.24 | -15.76 | 54 | 35.91 | 39.35 | 21.2 | 58.22 | - | - | A | H | |
| | | 14499 | 47.68 | -26.32 | 74 | 43.76 | 39.7 | 22.31 | 58.09 | - | - | P | H | |
| | | 15720 | 47.77 | -26.23 | 74 | 40.04 | 41.3 | 23.5 | 57.07 | - | - | P | H | |
| | | 17758 | 51.81 | -22.19 | 74 | 40.63 | 41.88 | 25.43 | 56.13 | - | - | P | H | |
| | | 17758 | 42.71 | -11.29 | 54 | 31.53 | 41.88 | 25.43 | 56.13 | - | - | A | H | |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | 10480 | 53.35 | -14.85 | 68.2 | 56.22 | 37.62 | 18.67 | 59.16 | - | - | P | V |
| | | | 13369 | 47.9 | -26.1 | 74 | 45.57 | 39.33 | 21.22 | 58.22 | - | - | P | V |
| | | | 14499 | 48.09 | -25.91 | 74 | 44.17 | 39.7 | 22.31 | 58.09 | - | - | P | V |
| | | | 14499 | 39.03 | -14.97 | 54 | 35.11 | 39.7 | 22.31 | 58.09 | - | - | A | V |
| | | | 15720 | 48.87 | -25.13 | 74 | 41.14 | 41.3 | 23.5 | 57.07 | - | - | P | V |
| | | | 15720 | 38.92 | -15.08 | 54 | 31.19 | 41.3 | 23.5 | 57.07 | - | - | A | V |
| | | 17879 | 51.72 | -22.28 | 74 | 40.36 | 41.88 | 25.53 | 56.05 | - | - | P | V | |
| | | 17879 | 43.1 | -10.9 | 54 | 31.74 | 41.88 | 25.53 | 56.05 | - | - | A | V | |
| | | | | | | | | | | | | | V | |
| | | | | | | | | | | | | | V | |
| | | | | | | | | | | | | | V | |
| | | | | | | | | | | | | | V | |
| Remark | <ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. The emission level close to 18GHz is checked that the average emission level is noise floor only. | | | | | | | | | | | | | |



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

| WIFI Ant. 1+2+3+4 | 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 | | 5147.94 | 60.46 | -13.54 | 74 | 49.75 | 34.2 | 11.79 | 35.28 | 100 | 302 | P | H |
| | | 5147.16 | 52 | -2 | 54 | 41.29 | 34.2 | 11.79 | 35.28 | 100 | 302 | A | H |
| | * | 5190 | 110.89 | - | - | 100.05 | 34.27 | 11.84 | 35.27 | 100 | 302 | P | H |
| | * | 5190 | 106.51 | - | - | 95.67 | 34.27 | 11.84 | 35.27 | 100 | 302 | A | H |
| | | 5451.88 | 50.97 | -23.03 | 74 | 39.45 | 34.6 | 12.05 | 35.13 | 100 | 302 | P | H |
| | | 5372.36 | 42.71 | -11.29 | 54 | 31.47 | 34.47 | 11.95 | 35.18 | 100 | 302 | A | H |
| | | 5149.24 | 57.25 | -16.75 | 74 | 46.54 | 34.2 | 11.79 | 35.28 | 100 | 243 | P | V |
| | | 5150 | 52.31 | -1.69 | 54 | 41.6 | 34.2 | 11.79 | 35.28 | 100 | 243 | A | V |
| | * | 5190 | 109.6 | - | - | 98.76 | 34.27 | 11.84 | 35.27 | 100 | 243 | P | V |
| | * | 5190 | 103.24 | - | - | 92.4 | 34.27 | 11.84 | 35.27 | 100 | 243 | A | V |
| | | 5376 | 50.33 | -23.67 | 74 | 39.07 | 34.47 | 11.96 | 35.17 | 100 | 243 | P | V |
| | | 5378.8 | 41.83 | -12.17 | 54 | 30.51 | 34.53 | 11.96 | 35.17 | 100 | 243 | A | V |
| | 802.11ax HE40 Full CH 46 5230MHz | | 5112.06 | 51.68 | -22.32 | 74 | 40.83 | 34.4 | 11.75 | 35.3 | 100 | 266 | P |
| | | 5149.24 | 44.64 | -9.36 | 54 | 33.73 | 34.4 | 11.79 | 35.28 | 100 | 266 | A | H |
| * | | 5230 | 113.75 | - | - | 102.58 | 34.54 | 11.87 | 35.24 | 100 | 266 | P | H |
| * | | 5230 | 107.18 | - | - | 96.01 | 34.54 | 11.87 | 35.24 | 100 | 266 | A | H |
| | | 5425.56 | 51.04 | -22.96 | 74 | 39.42 | 34.75 | 12.01 | 35.14 | 100 | 266 | P | H |
| | | 5409.6 | 42.86 | -11.14 | 54 | 31.26 | 34.78 | 11.98 | 35.16 | 100 | 266 | A | H |
| | | 5122.46 | 50.95 | -23.05 | 74 | 40.08 | 34.4 | 11.76 | 35.29 | 100 | 245 | P | V |
| | | 5148.46 | 42.54 | -11.46 | 54 | 31.63 | 34.4 | 11.79 | 35.28 | 100 | 245 | A | V |
| * | | 5230 | 110.04 | - | - | 98.87 | 34.54 | 11.87 | 35.24 | 100 | 245 | P | V |
| * | | 5230 | 103.46 | - | - | 92.29 | 34.54 | 11.87 | 35.24 | 100 | 245 | A | V |
| | 5440.68 | 50.4 | -23.6 | 74 | 38.79 | 34.72 | 12.03 | 35.14 | 100 | 245 | P | V | |
| | 5413.52 | 42.08 | -11.92 | 54 | 30.48 | 34.77 | 11.99 | 35.16 | 100 | 245 | A | V | |
| Remark | 1. No other spurious found. 2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |



Band 1 5150~5250MHz

WIFI 802.11ax HE40 Full (Harmonic @ 3m)

| WIFI Ant. 1+2+3+4 | 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 | | 10380 | 51.22 | -16.98 | 68.2 | 54.23 | 37.68 | 18.59 | 59.28 | - | - | P | H | |
| | | 13369 | 47.44 | -26.56 | 74 | 45.11 | 39.33 | 21.22 | 58.22 | - | - | P | H | |
| | | 14480 | 47.39 | -26.61 | 74 | 43.55 | 39.64 | 22.29 | 58.09 | - | - | P | H | |
| | | 15570 | 46.06 | -27.94 | 74 | 38.8 | 41.1 | 23.36 | 57.2 | - | - | P | H | |
| | | 17956 | 52.09 | -21.91 | 74 | 40.65 | 41.84 | 25.61 | 56.01 | - | - | P | H | |
| | | 17956 | 42.48 | -11.52 | 54 | 31.04 | 41.84 | 25.61 | 56.01 | - | - | A | H | |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | | | | | | | | | | | | H |
| | | | 10380 | 47.94 | -20.26 | 68.2 | 50.95 | 37.68 | 18.59 | 59.28 | - | - | P | V |
| | | | 13369 | 46.95 | -27.05 | 74 | 44.62 | 39.33 | 21.22 | 58.22 | - | - | P | V |
| | | | 14480 | 47.14 | -26.86 | 74 | 43.3 | 39.64 | 22.29 | 58.09 | - | - | P | V |
| | | 15570 | 46.39 | -27.61 | 74 | 39.13 | 41.1 | 23.36 | 57.2 | - | - | P | V | |
| | | 17901 | 51.31 | -22.69 | 74 | 39.9 | 41.9 | 25.55 | 56.04 | - | - | P | V | |
| | | 17901 | 41.44 | -12.56 | 54 | 30.03 | 41.9 | 25.55 | 56.04 | - | - | A | V | |
| | | | | | | | | | | | | | V | |
| | | | | | | | | | | | | | V | |
| | | | | | | | | | | | | | V | |
| | | | | | | | | | | | | | V | |
| | | | | | | | | | | | | | V | |
| | | | | | | | | | | | | | V | |



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

| WIFI Ant. 1+2+3+4 | 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 | | 5144.04 | 55.89 | -18.11 | 74 | 45.18 | 34.2 | 11.79 | 35.28 | 100 | 304 | P | H |
| | | 5146.12 | 49.32 | -4.68 | 54 | 38.61 | 34.2 | 11.79 | 35.28 | 100 | 304 | A | H |
| | * | 5210 | 110.9 | - | - | 99.99 | 34.3 | 11.86 | 35.25 | 100 | 304 | P | H |
| | * | 5210 | 104.52 | - | - | 93.61 | 34.3 | 11.86 | 35.25 | 100 | 304 | A | H |
| | | 5397.84 | 49.57 | -24.43 | 74 | 38.17 | 34.6 | 11.97 | 35.17 | 100 | 304 | P | H |
| | | 5370.96 | 42.01 | -11.99 | 54 | 30.77 | 34.47 | 11.95 | 35.18 | 100 | 304 | A | H |
| | | 5148.46 | 56.77 | -17.23 | 74 | 46.06 | 34.2 | 11.79 | 35.28 | 100 | 242 | P | V |
| | | 5149.24 | 51.37 | -2.63 | 54 | 40.66 | 34.2 | 11.79 | 35.28 | 100 | 242 | A | V |
| | * | 5210 | 104.85 | - | - | 93.94 | 34.3 | 11.86 | 35.25 | 100 | 242 | P | V |
| | * | 5210 | 99.21 | - | - | 88.3 | 34.3 | 11.86 | 35.25 | 100 | 242 | A | V |
| | | 5430.6 | 49.4 | -24.6 | 74 | 37.92 | 34.6 | 12.02 | 35.14 | 100 | 242 | P | V |
| | | 5361.16 | 41.19 | -12.81 | 54 | 29.95 | 34.47 | 11.95 | 35.18 | 100 | 242 | A | V |
| Remark | 1. No other spurious found. 2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |



Note symbol

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



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

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Path | Preamp | Ant | Table | Peak | Pol. |
|---------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1+2+3+4 | | (MHz) | (dBμV/m) | (dB) | (dBμV/m) | (dBμV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| 802.11b | | 2390 | 55.45 | -18.55 | 74 | 54.51 | 32.22 | 4.58 | 35.86 | 103 | 308 | P | H |
| CH 01 | | | | | | | | | | | | | |
| 2412MHz | | 2390 | 43.54 | -10.46 | 54 | 42.6 | 32.22 | 4.58 | 35.86 | 103 | 308 | A | H |

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(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 @ 2390MHz:

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

For Average Limit @ 2390MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)
= 43.54 (dBμV/m)
2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)
= 43.54(dBμV/m) – 54(dBμV/m)
= -10.46(dB)

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



Appendix D. Radiated Spurious Emission Plots

| | | | |
|-----------------|-----------------------------------|---------------------|-------------|
| Test Engineer : | Jesse Wang, Stan Hsieh and Ken Wu | Temperature : | 17.9~24.6°C |
| | | Relative Humidity : | 53.1~69% |

Note symbol

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

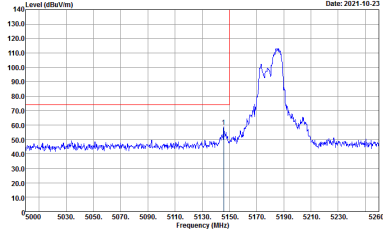
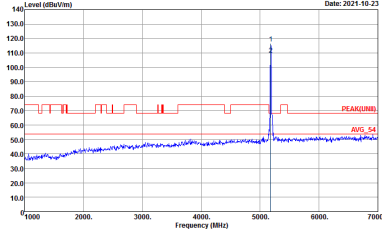
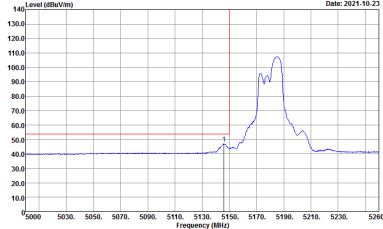


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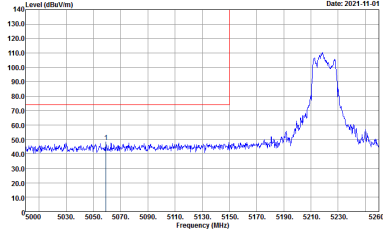
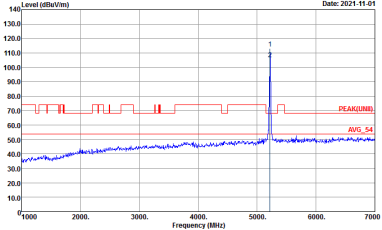
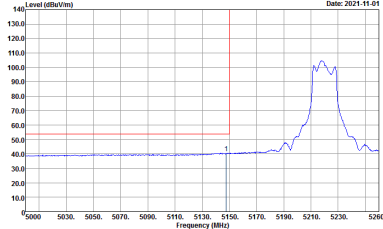
Band 1 - 5150~5250MHz
WIFI 802.11a (Band Edge @ 3m)

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|-------------|------------------------------------|-------------------|
| ANT | 802.11a CH36 5180MHz | |
| 1+2+3+4 | Horizontal | Fundamental |
| Peak | | |
| Avg. | | Left blank |



| | | |
|---------|--|---|
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
| ANT | 802.11a CH36 5180MHz | |
| 1+2+3+4 | Vertical | Fundamental |
| Peak |  <p>Date: 2021-10-23</p> <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |  <p>Date: 2021-10-23</p> <p>Site : 03CH07-HY Condition : PEAK(UWB) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg. |  <p>Date: 2021-10-23</p> <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | Left blank |

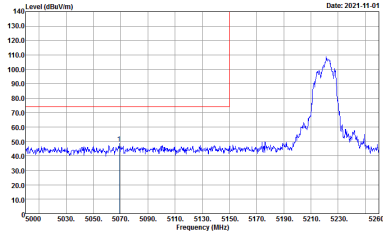
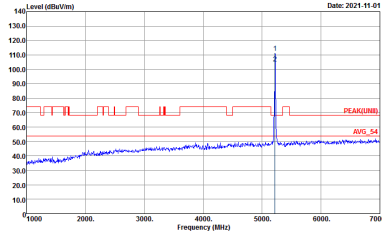
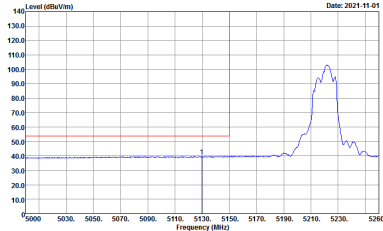


| | | |
|---------|--|--|
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
| ANT | 802.11a CH44 5220MHz - L | |
| 1+2+3+4 | Horizontal | Fundamental |
| Peak |  <p>Level (dBW/m) vs Frequency (MHz) plot showing a peak at 5220 MHz. The y-axis ranges from 10.0 to 140.0 dBW/m, and the x-axis ranges from 5000 to 5260 MHz. A red vertical line marks the peak at 5220 MHz.</p> <p>Site : 03CH07-HY Condition : PEAK_BE_24_3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |  <p>Level (dBW/m) vs Frequency (MHz) plot showing a peak at 5220 MHz. The y-axis ranges from 10.0 to 140.0 dBW/m, and the x-axis ranges from 1000 to 7000 MHz. A red vertical line marks the peak at 5220 MHz. Labels 'PEAK(UM)' and 'AVG_54' are present.</p> <p>Site : 03CH07-HY Condition : PEAK(UM) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg. |  <p>Level (dBW/m) vs Frequency (MHz) plot showing an average signal at 5220 MHz. The y-axis ranges from 10.0 to 140.0 dBW/m, and the x-axis ranges from 5000 to 5260 MHz. A red vertical line marks the peak at 5220 MHz.</p> <p>Site : 03CH07-HY Condition : AVG_BE_24_3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3.000kHz SWT:Auto</p> | Left blank |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|--------------------|------------------------------------|-------------------|
| ANT | 802.11a CH44 5220MHz - R | |
| 1+2+3+4 | Horizontal | Fundamental |
| <p>Peak</p> | | <p>Left blank</p> |
| <p>Avg.</p> | | <p>Left blank</p> |

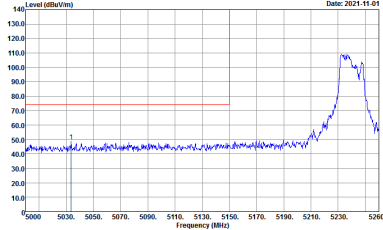
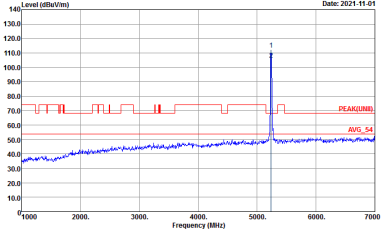
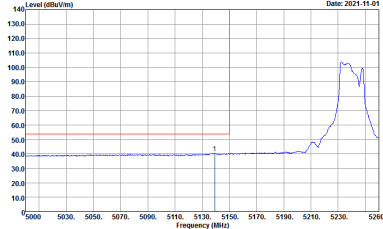


| | | |
|---------|---|--|
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
| ANT | 802.11a CH44 5220MHz - L | |
| 1+2+3+4 | Vertical | Fundamental |
| Peak |  <p>Level (dBW/m) vs Frequency (MHz) plot showing a peak at approximately 5220 MHz. The y-axis ranges from 10.0 to 140.0 dBW/m, and the x-axis ranges from 5000 to 5260 MHz. A red vertical line marks the peak at 5220 MHz.</p> <p>Site : 03CH07-HY Condition : PEAK_BE_24_3m HF_ANT_000759K2 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Level (dBW/m) vs Frequency (MHz) plot showing a peak at approximately 5220 MHz. The y-axis ranges from 10.0 to 140.0 dBW/m, and the x-axis ranges from 1000 to 7000 MHz. A red vertical line marks the peak at 5220 MHz. Labels 'PEAK(UWB)' and 'AVG_54' are present.</p> <p>Site : 03CH07-HY Condition : PEAK(UWB)_3m HF_ANT_000759K2 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Level (dBW/m) vs Frequency (MHz) plot showing an average signal at approximately 5220 MHz. The y-axis ranges from 10.0 to 140.0 dBW/m, and the x-axis ranges from 5000 to 5260 MHz. A red vertical line marks the peak at 5220 MHz.</p> <p>Site : 03CH07-HY Condition : AVG_BE_24_3m HF_ANT_000759K2 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | Left blank |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|--------------------|------------------------------------|-------------------|
| ANT | 802.11a CH44 5220MHz - R | |
| 1+2+3+4 | Vertical | Fundamental |
| <p>Peak</p> | | <p>Left blank</p> |
| <p>Avg.</p> | | <p>Left blank</p> |

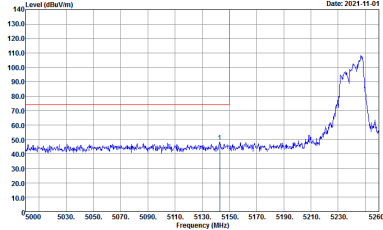
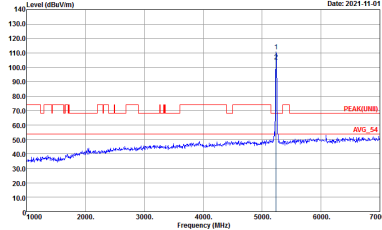
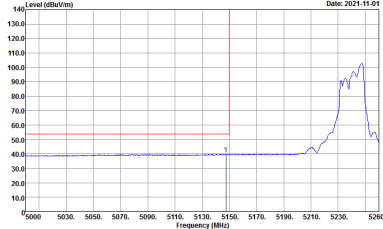


| | | |
|---------|---|---|
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
| ANT | 802.11a CH48 5240MHz - L | |
| 1+2+3+4 | Horizontal | Fundamental |
| Peak |  <p>Level (dBW/m) vs Frequency (MHz) plot showing a peak at 5240 MHz. The y-axis ranges from 10.0 to 140.0 dBW/m, and the x-axis ranges from 5000 to 5260 MHz. A red vertical line marks the peak at 5240 MHz. The plot shows a blue signal line with a sharp peak at 5240 MHz. The background is relatively flat with some noise. The date is 2021-11-01.</p> <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |  <p>Level (dBW/m) vs Frequency (MHz) plot showing a peak at 5240 MHz. The y-axis ranges from 10.0 to 140.0 dBW/m, and the x-axis ranges from 1000 to 7000 MHz. A red vertical line marks the peak at 5240 MHz. The plot shows a blue signal line with a sharp peak at 5240 MHz. The background is relatively flat with some noise. The date is 2021-11-01.</p> <p>Site : 03CH07-HY Condition : PEAK(FUN) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg. |  <p>Level (dBW/m) vs Frequency (MHz) plot showing a peak at 5240 MHz. The y-axis ranges from 10.0 to 140.0 dBW/m, and the x-axis ranges from 5000 to 5260 MHz. A red vertical line marks the peak at 5240 MHz. The plot shows a blue signal line with a sharp peak at 5240 MHz. The background is relatively flat with some noise. The date is 2021-11-01.</p> <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3.000kHz SWT:Auto</p> | Left blank |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|--------------------|---|-------------------|
| ANT | 802.11a CH48 5240MHz - R | |
| 1+2+3+4 | Horizontal | Fundamental |
| <p>Peak</p> | <p>Site : 03CH07-HY Condition : PEAK_BE_24_3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | <p>Left blank</p> |
| <p>Avg.</p> | <p>Site : 03CH07-HY Condition : AVG_BE_24_3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p> | <p>Left blank</p> |



| | | |
|---------|---|--|
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
| ANT | 802.11a CH48 5240MHz - L | |
| 1+2+3+4 | Vertical | Fundamental |
| Peak |  <p>Level (dBW/m) vs Frequency (MHz) plot showing a peak at 5240 MHz. The y-axis ranges from 10.0 to 140.0 dBW/m, and the x-axis ranges from 5000 to 5260 MHz. A red vertical line marks the peak at 5240 MHz. The plot shows a noisy baseline that rises sharply at 5240 MHz.</p> <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_000759K2 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Level (dBW/m) vs Frequency (MHz) plot showing a sharp peak at 5240 MHz. The y-axis ranges from 10.0 to 140.0 dBW/m, and the x-axis ranges from 1000 to 7000 MHz. A red vertical line marks the peak at 5240 MHz. The plot shows a flat baseline with a single sharp peak at 5240 MHz.</p> <p>Site : 03CH07-HY Condition : PEAK(FUN) 3m HF_ANT_000759K2 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Level (dBW/m) vs Frequency (MHz) plot showing a peak at 5240 MHz. The y-axis ranges from 10.0 to 140.0 dBW/m, and the x-axis ranges from 5000 to 5260 MHz. A red vertical line marks the peak at 5240 MHz. The plot shows a noisy baseline that rises sharply at 5240 MHz.</p> <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_000759K2 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p> | Left blank |



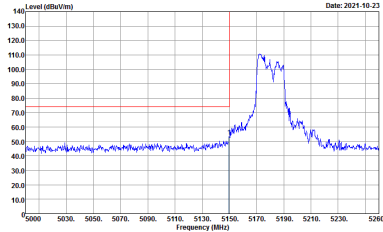
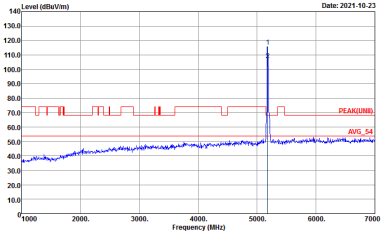
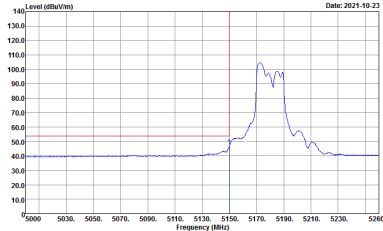
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|--------------------|------------------------------------|-------------------|
| ANT | 802.11a CH48 5240MHz - R | |
| 1+2+3+4 | Vertical | Fundamental |
| <p>Peak</p> | | <p>Left blank</p> |
| <p>Avg.</p> | | <p>Left blank</p> |



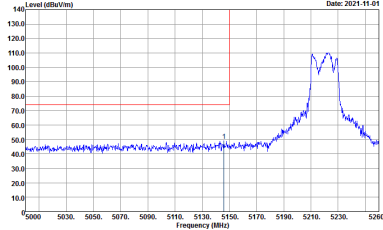
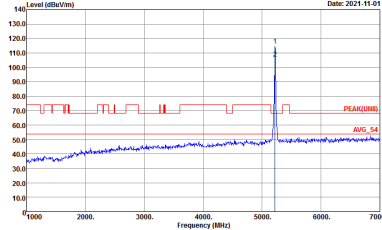
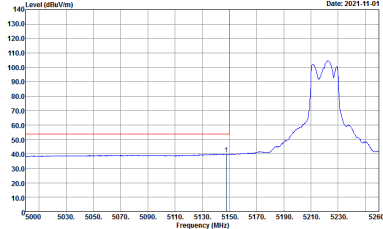
Band 1 5150~5250MHz
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|-------------|--|---|
| ANT | 802.11ax HE20 Full CH36 5180MHz | |
| 1+2+3+4 | Horizontal | Fundamental |
| Peak | <p>Date: 2021-10-23</p> <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTA:Auto</p> | <p>Date: 2021-10-23</p> <p>Site : 03CH07-HY Condition : PEAK(LIN) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTA:Auto</p> |
| Avg. | <p>Date: 2021-10-23</p> <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.300kHz SWTA:Auto</p> | Left blank |



| | | |
|---------|--|---|
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
| ANT | 802.11ax HE20 Full CH36 5180MHz | |
| 1+2+3+4 | Vertical | Fundamental |
| Peak |  <p>Level (dBW/m) vs Frequency (MHz) plot showing a peak at 5180 MHz. Date: 2021-10-23</p> <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |  <p>Level (dBW/m) vs Frequency (MHz) plot showing a peak at 5180 MHz. Date: 2021-10-23</p> <p>Site : 03CH07-HY Condition : PEAK(FUN) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg. |  <p>Level (dBW/m) vs Frequency (MHz) plot showing an average level at 5180 MHz. Date: 2021-10-23</p> <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | Left blank |

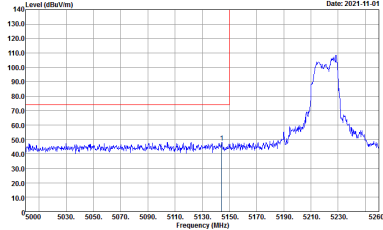
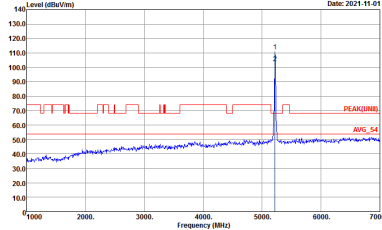
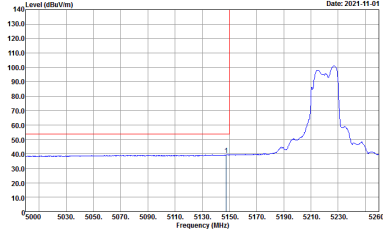


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|---------|--|---|
| ANT | 802.11ax HE20 Full CH44 5220MHz - L | |
| 1+2+3+4 | Horizontal | Fundamental |
| Peak |  <p>Date: 2021-11-01</p> <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |  <p>Date: 2021-11-01</p> <p>Site : 03CH07-HY Condition : PEAK(FUN) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg. |  <p>Date: 2021-11-01</p> <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | Left blank |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|--------------------|---|-------------------|
| ANT | 802.11ax HE20 Full CH44 5220MHz - R | |
| 1+2+3+4 | Horizontal | Fundamental |
| <p>Peak</p> | <p>Date: 2021-11-01</p> <p>Site : 03CH07-HY Condition : PEAK_BE_24_3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | <p>Left blank</p> |
| <p>Avg.</p> | <p>Date: 2021-11-01</p> <p>Site : 03CH07-HY Condition : AVG_BE_24_3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | <p>Left blank</p> |

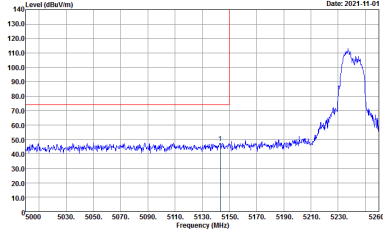
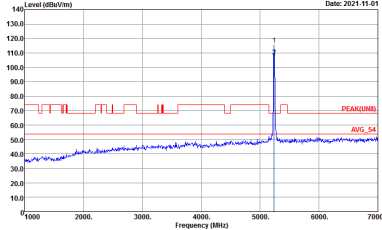
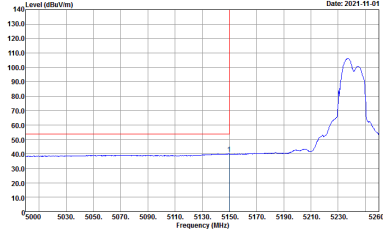


| | | |
|---------|---|--|
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
| ANT | 802.11ax HE20 Full CH44 5220MHz - L | |
| 1+2+3+4 | Vertical | Fundamental |
| Peak |  <p>Level (dBW/m) vs Frequency (MHz) plot showing a peak at approximately 5220 MHz. The y-axis ranges from 10.0 to 140.0 dBW/m, and the x-axis ranges from 5000 to 5260 MHz. A red vertical line marks the peak at 5220 MHz.</p> <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |  <p>Level (dBW/m) vs Frequency (MHz) plot showing a peak at approximately 5220 MHz. The y-axis ranges from 10.0 to 140.0 dBW/m, and the x-axis ranges from 1000 to 7000 MHz. A red vertical line marks the peak at 5220 MHz. Labels 'PEAK(UWB)' and 'AVG_54' are present.</p> <p>Site : 03CH07-HY Condition : PEAK(UWB) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg. |  <p>Level (dBW/m) vs Frequency (MHz) plot showing an average signal at approximately 5220 MHz. The y-axis ranges from 10.0 to 140.0 dBW/m, and the x-axis ranges from 5000 to 5260 MHz. A red vertical line marks the peak at 5220 MHz.</p> <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | Left blank |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|--|-------------------------------------|---|
| ANT | 802.11ax HE20 Full CH44 5220MHz - R | |
| 1+2+3+4 | Vertical | Fundamental |
| <p style="text-align: center;">Peak</p> | | <p style="text-align: center;">Left blank</p> |
| <p style="text-align: center;">Avg.</p> | | <p style="text-align: center;">Left blank</p> |

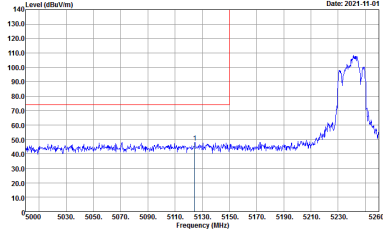
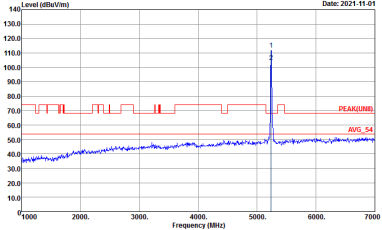
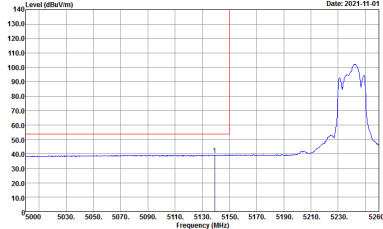


| | | |
|---------|--|--|
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
| ANT | 802.11ax HE20 Full CH48 5240MHz - L | |
| 1+2+3+4 | Horizontal | Fundamental |
| Peak |  <p>Level (dBuV/m) vs Frequency (MHz) plot showing a peak at approximately 5240 MHz. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 5000 to 5260 MHz. A red vertical line is at 5150 MHz.</p> <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |  <p>Level (dBuV/m) vs Frequency (MHz) plot showing a sharp peak at approximately 5240 MHz. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 1000 to 7000 MHz. A red vertical line is at 5150 MHz. Labels 'PEAK(UWB)' and 'AVG_54' are present.</p> <p>Site : 03CH07-HY Condition : PEAK(UWB) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg. |  <p>Level (dBuV/m) vs Frequency (MHz) plot showing a peak at approximately 5240 MHz. The y-axis ranges from 10.0 to 140.0 dBuV/m, and the x-axis ranges from 5000 to 5260 MHz. A red vertical line is at 5150 MHz.</p> <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | Left blank |



| | | |
|---------|-------------------------------------|-------------|
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
| ANT | 802.11ax HE20 Full CH48 5240MHz - R | |
| 1+2+3+4 | Horizontal | Fundamental |
| Peak | | Left blank |
| Avg. | | Left blank |



| | | |
|---------|---|--|
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
| ANT | 802.11ax HE20 Full CH48 5240MHz - L | |
| 1+2+3+4 | Vertical | Fundamental |
| Peak |  <p>Level (dBW/m) vs Frequency (MHz) plot showing a peak at approximately 5240 MHz. The y-axis ranges from 10.0 to 140.0 dBW/m, and the x-axis ranges from 5000 to 5260 MHz. A red vertical line marks the peak at 5240 MHz.</p> <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_000759K2 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Level (dBW/m) vs Frequency (MHz) plot showing a peak at approximately 5240 MHz. The y-axis ranges from 10.0 to 140.0 dBW/m, and the x-axis ranges from 1000 to 7000 MHz. A red vertical line marks the peak at 5240 MHz. Labels 'PEAK(UWB)' and 'AVG_54' are present.</p> <p>Site : 03CH07-HY Condition : PEAK(UWB) 3m HF_ANT_000759K2 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Level (dBW/m) vs Frequency (MHz) plot showing an average signal at approximately 5240 MHz. The y-axis ranges from 10.0 to 140.0 dBW/m, and the x-axis ranges from 5000 to 5260 MHz. A red vertical line marks the peak at 5240 MHz.</p> <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_000759K2 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | Left blank |



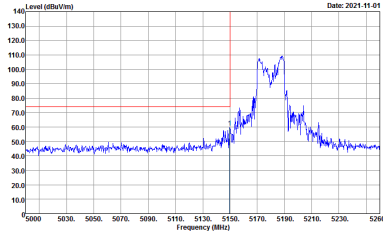
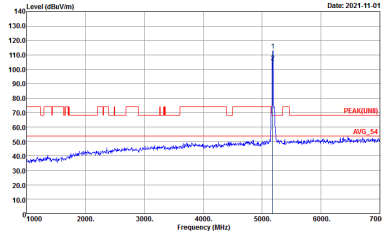
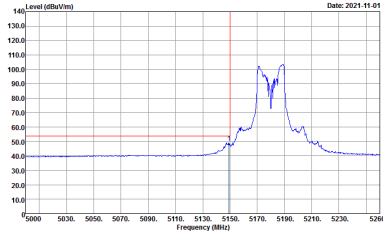
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|--|-------------------------------------|---|
| ANT | 802.11ax HE20 Full CH48 5240MHz - R | |
| 1+2+3+4 | Vertical | Fundamental |
| <p style="text-align: center;">Peak</p> | | <p style="text-align: center;">Left blank</p> |
| <p style="text-align: center;">Avg.</p> | | <p style="text-align: center;">Left blank</p> |



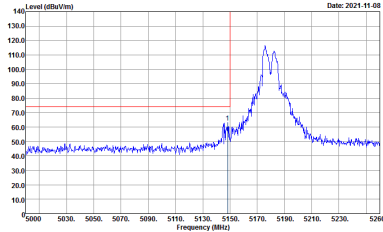
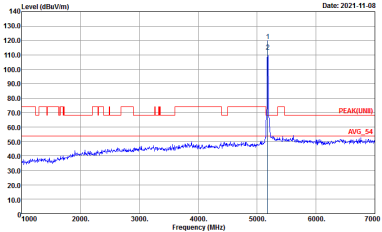
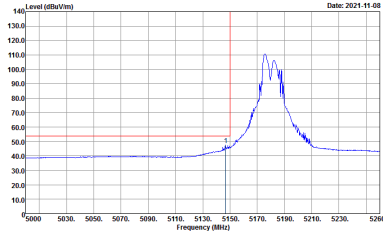
Band 1 5150~5250MHz
WIFI 802.11ax HE20 Partial RU (Band Edge @ 3m)

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|-------------|---|--|
| ANT | 802.11ax HE20 Partial M CH36 5180MHz | |
| 1+2+3+4 | Horizontal | Fundamental |
| Peak | <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | <p>Site : 03CH07-HY Condition : PEAK(LIN) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. | <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p> | Left blank |

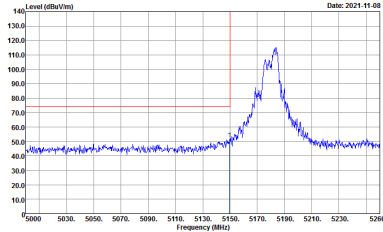
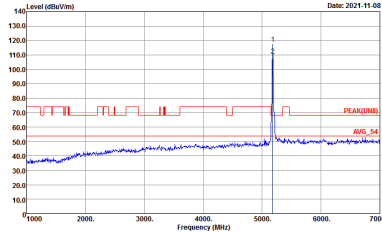
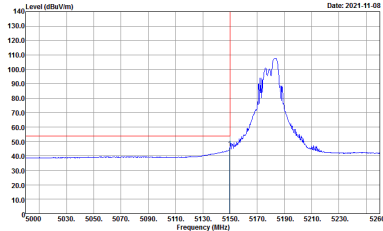


| | | |
|---------|--|---|
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
| ANT | 802.11ax HE20 Partial M CH36 5180MHz | |
| 1+2+3+4 | Vertical | Fundamental |
| Peak |  <p>Level (dBW/m) vs Frequency (MHz) plot showing a peak at 5180 MHz. The y-axis ranges from 10.0 to 140.0 dBW/m, and the x-axis ranges from 5000 to 5260 MHz. A red vertical line marks the peak at 5180 MHz. The plot shows a blue signal trace with a red horizontal line at approximately 75 dBW/m.</p> <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_000759K2 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Level (dBW/m) vs Frequency (MHz) plot showing a peak at 5180 MHz. The y-axis ranges from 10.0 to 140.0 dBW/m, and the x-axis ranges from 1000 to 7000 MHz. A red vertical line marks the peak at 5180 MHz. The plot shows a blue signal trace with a red horizontal line at approximately 75 dBW/m. Labels 'PEAK(UWB)' and 'AVG_54' are present.</p> <p>Site : 03CH07-HY Condition : PEAK(UWB) 3m HF_ANT_000759K2 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Level (dBW/m) vs Frequency (MHz) plot showing a peak at 5180 MHz. The y-axis ranges from 10.0 to 140.0 dBW/m, and the x-axis ranges from 5000 to 5260 MHz. A red vertical line marks the peak at 5180 MHz. The plot shows a blue signal trace with a red horizontal line at approximately 50 dBW/m.</p> <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_000759K2 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p> | Left blank |

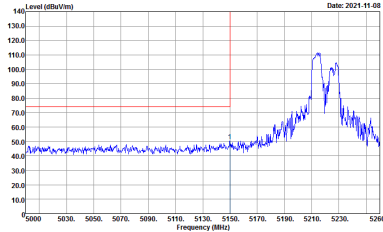
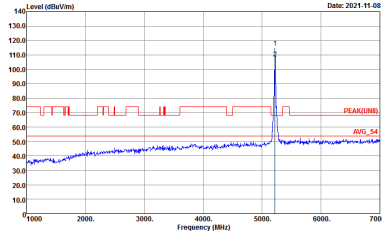
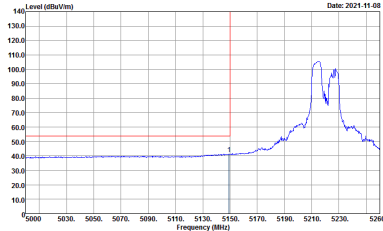


| | | |
|---------|--|---|
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
| ANT | 802.11ax HE20 Partial BE CH36 5180MHz | |
| 1+2+3+4 | Horizontal | Fundamental |
| Peak |  <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |  <p>Site : 03CH07-HY Condition : PEAK(FUN) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | Left blank |



| | | |
|---------|--|---|
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
| ANT | 802.11ax HE20 Partial BE CH36 5180MHz | |
| 1+2+3+4 | Vertical | Fundamental |
| Peak |  <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |  <p>Site : 03CH07-HY Condition : PEAK(FUN) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | Left blank |



| | | |
|---------|---|--|
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
| ANT | 802.11ax HE20 Partial M CH44 5220MHz - L | |
| 1+2+3+4 | Horizontal | Fundamental |
| Peak |  <p>Level (dBW/m) vs Frequency (MHz) plot showing a peak at approximately 5220 MHz. The y-axis ranges from 10.0 to 140.0 dBW/m, and the x-axis ranges from 5000 to 5260 MHz. A red vertical line marks the peak at 5220 MHz.</p> <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |  <p>Level (dBW/m) vs Frequency (MHz) plot showing a sharp peak at approximately 5220 MHz. The y-axis ranges from 10.0 to 140.0 dBW/m, and the x-axis ranges from 1000 to 7000 MHz. A red vertical line marks the peak at 5220 MHz. Labels 'PEAK(UWB)' and 'AVG_54' are present.</p> <p>Site : 03CH07-HY Condition : PEAK(UWB) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg. |  <p>Level (dBW/m) vs Frequency (MHz) plot showing the average spectrum for the horizontal polarization. The y-axis ranges from 10.0 to 140.0 dBW/m, and the x-axis ranges from 5000 to 5260 MHz. A red vertical line marks the peak at 5220 MHz.</p> <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto</p> | Left blank |

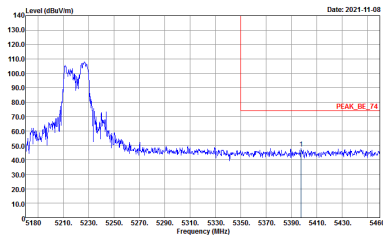
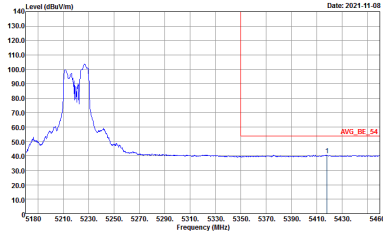


| | | |
|---------|--|-------------|
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
| ANT | 802.11ax HE20 Partial M CH44 5220MHz - R | |
| 1+2+3+4 | Horizontal | Fundamental |
| Peak | <p>Level (dBm/1m) vs Frequency (MHz) plot. The y-axis ranges from 10.0 to 140.0 dBm/1m. The x-axis ranges from 5180 to 5460 MHz. A peak is observed at approximately 5220 MHz. A red line indicates the peak level at 75 dBm/1m.</p> <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | Left blank |
| Avg. | <p>Level (dBm/1m) vs Frequency (MHz) plot. The y-axis ranges from 10.0 to 140.0 dBm/1m. The x-axis ranges from 5180 to 5460 MHz. A peak is observed at approximately 5220 MHz. A red line indicates the average level at 54 dBm/1m.</p> <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p> | Left blank |

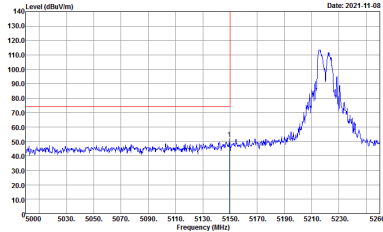
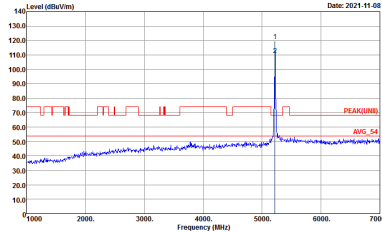
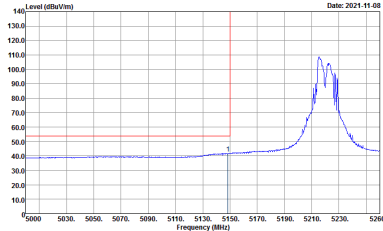


| | | |
|---------|---|--|
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
| ANT | 802.11ax HE20 Partial M CH44 5220MHz - L | |
| 1+2+3+4 | Vertical | Fundamental |
| Peak | <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | <p>Site : 03CH07-HY Condition : PEAK(FUN) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg. | <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto</p> | Left blank |

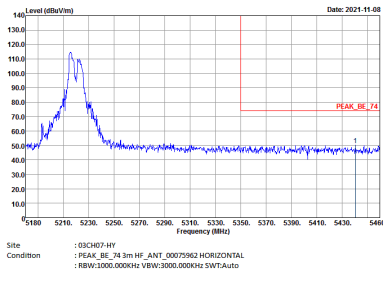
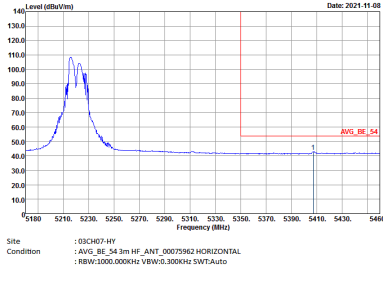


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|--------------------|---|-------------------|
| ANT | 802.11ax HE20 Partial M CH44 5220MHz - R | |
| 1+2+3+4 | Vertical | Fundamental |
| <p>Peak</p> |  <p>Site : 03CH07-HY Condition : PEAK_BE_75 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | <p>Left blank</p> |
| <p>Avg.</p> |  <p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p> | <p>Left blank</p> |



| | | |
|---------|--|---|
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
| ANT | 802.11ax HE20 Partial BE CH44 5220MHz - L | |
| 1+2+3+4 | Horizontal | Fundamental |
| Peak |  <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |  <p>Site : 03CH07-HY Condition : PEAK(FUN) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | Left blank |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|---------|---|-------------|
| ANT | 802.11ax HE20 Partial BE CH44 5220MHz - R | |
| 1+2+3+4 | Horizontal | Fundamental |
| Peak |  <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | Left blank |
| Avg. |  <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000KHz SWT:Auto</p> | Left blank |

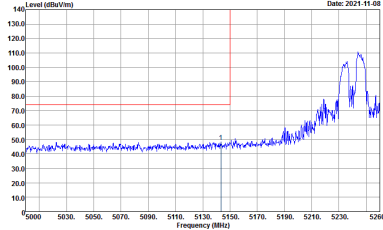
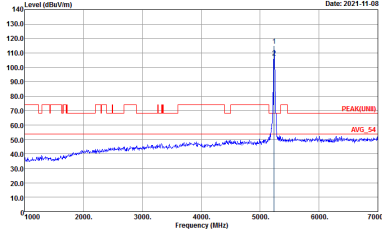
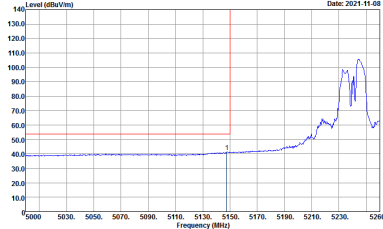


| | | |
|---------|---|--|
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
| ANT | 802.11ax HE20 Partial BE CH44 5220MHz - L | |
| 1+2+3+4 | Vertical | Fundamental |
| Peak | <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | <p>Site : 03CH07-HY Condition : PEAK(UWB) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg. | <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | Left blank |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|--------------------|---|-------------------|
| ANT | 802.11ax HE20 Partial BE CH44 5220MHz - R | |
| 1+2+3+4 | Vertical | Fundamental |
| <p>Peak</p> | | <p>Left blank</p> |
| <p>Avg.</p> | | <p>Left blank</p> |



| | | |
|---------|---|--|
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
| ANT | 802.11ax HE20 Partial M CH48 5240MHz - L | |
| 1+2+3+4 | Horizontal | Fundamental |
| Peak |  <p>Level (dBW/m) vs Frequency (MHz) plot showing a peak at 5240 MHz. The y-axis ranges from 10.0 to 140.0 dBW/m, and the x-axis ranges from 5000 to 5260 MHz. A red vertical line marks the peak at 5240 MHz.</p> <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |  <p>Level (dBW/m) vs Frequency (MHz) plot showing a sharp peak at 5240 MHz. The y-axis ranges from 10.0 to 140.0 dBW/m, and the x-axis ranges from 4000 to 7000 MHz. A red vertical line marks the peak at 5240 MHz. Labels 'PEAK(UM)' and 'AVG_54' are present.</p> <p>Site : 03CH07-HY Condition : PEAK(UM) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg. |  <p>Level (dBW/m) vs Frequency (MHz) plot showing the average signal. The y-axis ranges from 10.0 to 140.0 dBW/m, and the x-axis ranges from 5000 to 5260 MHz. A red vertical line marks the peak at 5240 MHz.</p> <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto</p> | Left blank |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|--------------------|--|-------------------|
| ANT | 802.11ax HE20 Partial M CH48 5240MHz - R | |
| 1+2+3+4 | Horizontal | Fundamental |
| <p>Peak</p> | | <p>Left blank</p> |
| <p>Avg.</p> | | <p>Left blank</p> |

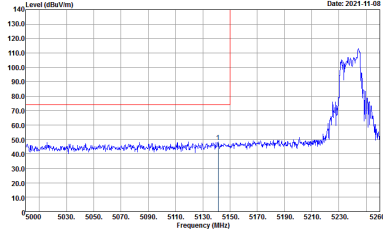
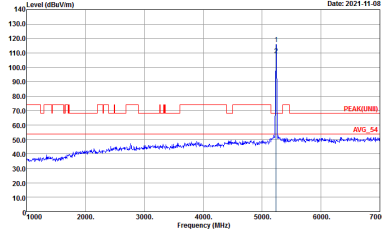
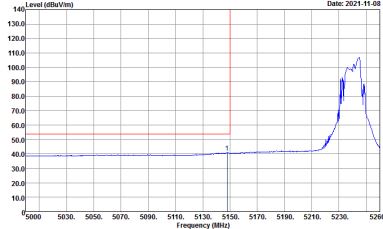


| | | |
|---------|---|--|
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
| ANT | 802.11ax HE20 Partial M CH48 5240MHz - L | |
| 1+2+3+4 | Vertical | Fundamental |
| Peak | <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | <p>Site : 03CH07-HY Condition : PEAK(FUN) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg. | <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto</p> | Left blank |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|--------------------|---|-------------------|
| ANT | 802.11ax HE20 Partial M CH48 5240MHz - R | |
| 1+2+3+4 | Vertical | Fundamental |
| <p>Peak</p> | <p>Site : 03CH07 HF Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | <p>Left blank</p> |
| <p>Avg.</p> | <p>Site : 03CH07 HF Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p> | <p>Left blank</p> |



| | | |
|---------|--|---|
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
| ANT | 802.11ax HE20 Partial BE CH48 5240MHz - L | |
| 1+2+3+4 | Horizontal | Fundamental |
| Peak |  <p>Level (dBW/m) Date: 2021-11-08</p> <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |  <p>Level (dBW/m) Date: 2021-11-08</p> <p>Site : 03CH07-HY Condition : PEAK(FUN) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg. |  <p>Level (dBW/m) Date: 2021-11-08</p> <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | Left blank |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|--------------------|---|-------------------|
| ANT | 802.11ax HE20 Partial BE CH48 5240MHz - R | |
| 1+2+3+4 | Horizontal | Fundamental |
| <p>Peak</p> | | <p>Left blank</p> |
| <p>Avg.</p> | | <p>Left blank</p> |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|---------|--|--|
| ANT | 802.11ax HE20 Partial BE CH48 5240MHz - L | |
| 1+2+3+4 | Vertical | Fundamental |
| Peak | <p>Level (dBW/m) vs Frequency (MHz) plot for Peak Vertical. The plot shows a signal peak at approximately 5240 MHz. The y-axis ranges from 10.0 to 140.0 dBW/m, and the x-axis ranges from 5000 to 5260 MHz. A red vertical line is drawn at 5150 MHz. The plot is dated 2021-11-08.</p> <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_000759K2 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | <p>Level (dBW/m) vs Frequency (MHz) plot for Peak Fundamental. The plot shows a signal peak at approximately 5240 MHz. The y-axis ranges from 10.0 to 140.0 dBW/m, and the x-axis ranges from 1000 to 7000 MHz. A red vertical line is drawn at 5150 MHz. The plot is dated 2021-11-08.</p> <p>Site : 03CH07-HY Condition : PEAK(FUN) 3m HF_ANT_000759K2 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. | <p>Level (dBW/m) vs Frequency (MHz) plot for Avg Vertical. The plot shows a signal peak at approximately 5240 MHz. The y-axis ranges from 10.0 to 140.0 dBW/m, and the x-axis ranges from 5000 to 5260 MHz. A red vertical line is drawn at 5150 MHz. The plot is dated 2021-11-08.</p> <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_000759K2 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | Left blank |



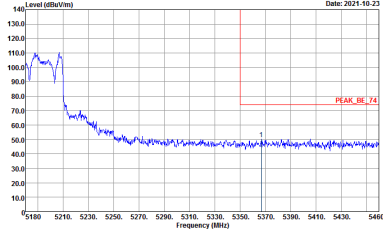
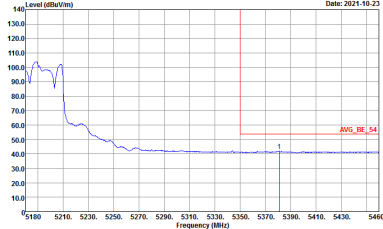
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|--------------------|---|-------------------|
| ANT | 802.11ax HE20 Partial BE CH48 5240MHz - R | |
| 1+2+3+4 | Vertical | Fundamental |
| <p>Peak</p> | <p>Site : 03CH07 HF Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | <p>Left blank</p> |
| <p>Avg.</p> | <p>Site : 03CH07 HF Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | <p>Left blank</p> |



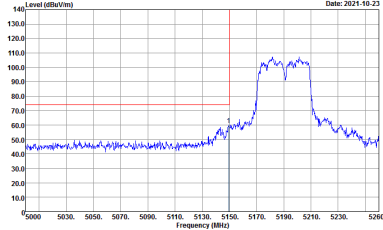
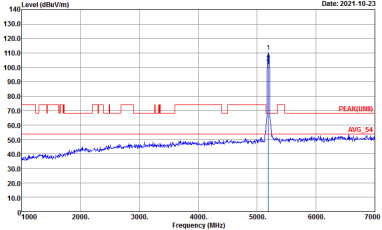
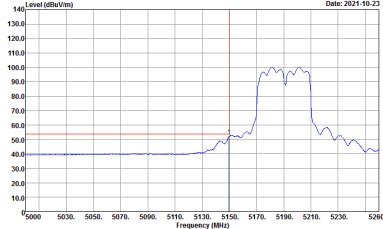
Band 1 5150~5250MHz
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|-------------|--|---|
| ANT | 802.11ax HE40 Full CH38 5190MHz - L | |
| 1+2+3+4 | Horizontal | Fundamental |
| Peak | <p>Date: 2021-10-23</p> <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTA:Auto</p> | <p>Date: 2021-10-23</p> <p>Site : 03CH07-HY Condition : PEAK(LIN) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWTA:Auto</p> |
| Avg. | <p>Date: 2021-10-23</p> <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.300kHz SWTA:Auto</p> | Left blank |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|--------------------|--|-------------------|
| ANT | 802.11ax HE40 Full CH38 5190MHz - R | |
| 1+2+3+4 | Horizontal | Fundamental |
| <p>Peak</p> |  <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | <p>Left blank</p> |
| <p>Avg.</p> |  <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | <p>Left blank</p> |

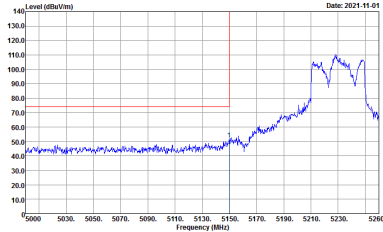
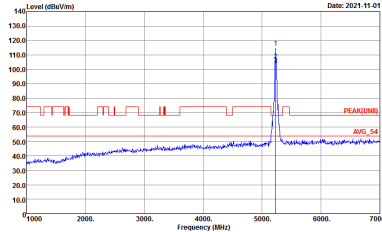
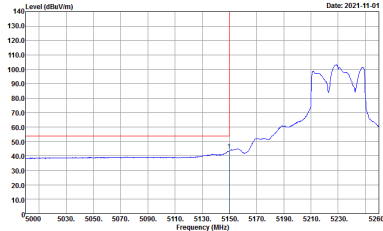


| | | |
|---------|--|--|
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
| ANT | 802.11ax HE40 Full CH38 5190MHz - L | |
| 1+2+3+4 | Vertical | Fundamental |
| Peak |  <p>Level (dBm/1m) vs Frequency (MHz) plot showing a peak at 5190 MHz. Date: 2021-10-23</p> <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |  <p>Level (dBm/1m) vs Frequency (MHz) plot showing a peak at 5190 MHz. Date: 2021-10-23</p> <p>Site : 03CH07-HY Condition : PEAK(FUN) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg. |  <p>Level (dBm/1m) vs Frequency (MHz) plot showing average signal. Date: 2021-10-23</p> <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | Left blank |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|--------------------|---|-------------------|
| ANT | 802.11ax HE40 Full CH38 5190MHz - R | |
| 1+2+3+4 | Vertical | Fundamental |
| <p>Peak</p> | <p>Date: 2024-10-23</p> <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | <p>Left blank</p> |
| <p>Avg.</p> | <p>Date: 2024-10-23</p> <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | <p>Left blank</p> |

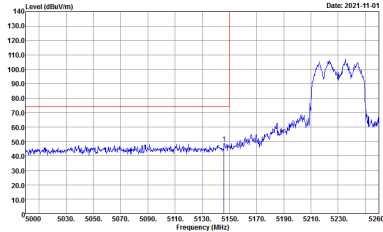
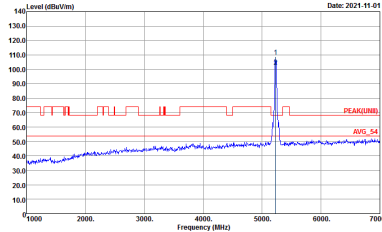
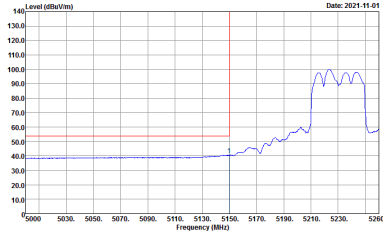


| | | |
|---------|--|---|
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
| ANT | 802.11ax HE40 Full CH46 5230MHz - L | |
| 1+2+3+4 | Horizontal | Fundamental |
| Peak |  <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |  <p>Site : 03CH07-HY Condition : PEAK(FUN) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg. |  <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | Left blank |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|--------------------|---|-------------------|
| ANT | 802.11ax HE40 Full CH46 5230MHz - R | |
| 1+2+3+4 | Horizontal | Fundamental |
| <p>Peak</p> | <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | <p>Left blank</p> |
| <p>Avg.</p> | <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | <p>Left blank</p> |



| | | |
|---------|---|--|
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
| ANT | 802.11ax HE40 Full CH46 5230MHz - L | |
| 1+2+3+4 | Vertical | Fundamental |
| Peak |  <p>Level (dBm/1m) vs Frequency (MHz) plot showing a peak at 5150 MHz. The y-axis ranges from 10.0 to 140.0 dBm/1m, and the x-axis ranges from 5000 to 5260 MHz. A red vertical line marks the peak at 5150 MHz. The plot shows a noisy baseline that rises to a peak of approximately 100 dBm/1m at 5150 MHz, then drops and rises again to a second peak of approximately 110 dBm/1m between 5210 and 5230 MHz.</p> <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |  <p>Level (dBm/1m) vs Frequency (MHz) plot showing a peak at 5150 MHz. The y-axis ranges from 10.0 to 140.0 dBm/1m, and the x-axis ranges from 1000 to 7000 MHz. A red vertical line marks the peak at 5150 MHz. The plot shows a noisy baseline that rises to a peak of approximately 110 dBm/1m at 5150 MHz, then drops and rises again to a second peak of approximately 110 dBm/1m between 5210 and 5230 MHz.</p> <p>Site : 03CH07-HY Condition : PEAK(FUN) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg. |  <p>Level (dBm/1m) vs Frequency (MHz) plot showing a peak at 5150 MHz. The y-axis ranges from 10.0 to 140.0 dBm/1m, and the x-axis ranges from 5000 to 5260 MHz. A red vertical line marks the peak at 5150 MHz. The plot shows a noisy baseline that rises to a peak of approximately 100 dBm/1m at 5150 MHz, then drops and rises again to a second peak of approximately 110 dBm/1m between 5210 and 5230 MHz.</p> <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | Left blank |



| | | |
|---------|---|-------------|
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
| ANT | 802.11ax HE40 Full CH46 5230MHz - R | |
| 1+2+3+4 | Vertical | Fundamental |
| Peak | <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | Left blank |
| Avg. | <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | Left blank |



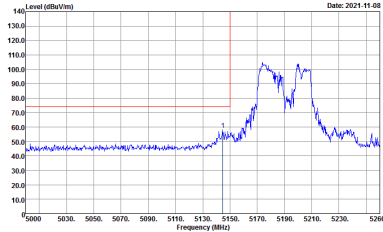
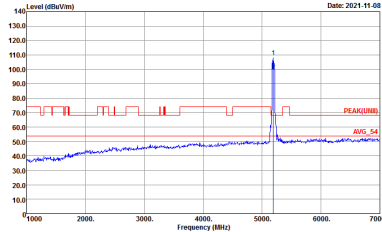
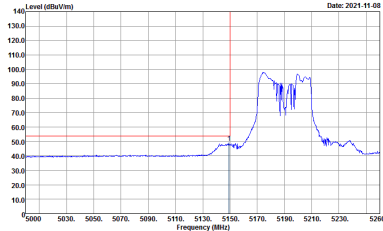
Band 1 5150~5250MHz
WIFI 802.11ax HE40 Partial RU (Band Edge @ 3m)

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|-------------|--|---|
| ANT | 802.11ax HE40 Partial M CH38 5190MHz - L | |
| 1+2+3+4 | Horizontal | Fundamental |
| Peak | <p>Site : 03CH07-HY Condition : PEAK_BE_3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | <p>Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. | <p>Site : 03CH07-HY Condition : AVG_BE_3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p> | Left blank |



| | | |
|---------|--|-------------|
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
| ANT | 802.11ax HE40 Partial M CH38 5190MHz - R | |
| 1+2+3+4 | Horizontal | Fundamental |
| Peak | <p>Level (dBm/1m) vs Frequency (MHz) plot. Date: 2021-11-08. Peak level: PEAK_BE_75.</p> <p>Site : 03CH07-HY Condition : PEAK_BE_75 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | Left blank |
| Avg. | <p>Level (dBm/1m) vs Frequency (MHz) plot. Date: 2021-11-08. Average level: AVG_BE_54.</p> <p>Site : 03CH07-HY Condition : AVG_BE_54 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p> | Left blank |

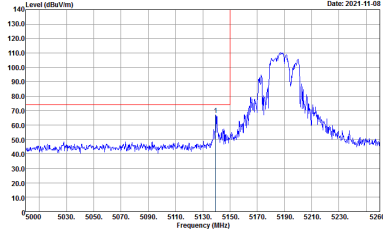
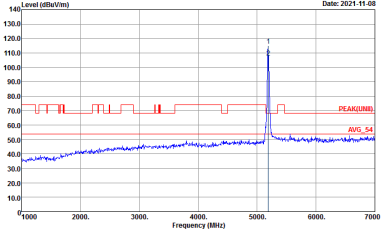
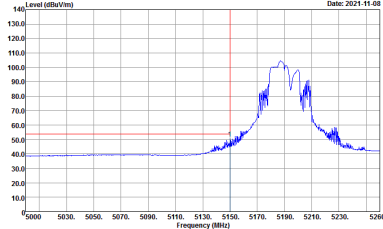


| | | |
|---------|--|--|
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
| ANT | 802.11ax HE40 Partial M CH38 5190MHz - L | |
| 1+2+3+4 | Vertical | Fundamental |
| Peak |  <p>Level (dBm/1m) vs Frequency (MHz) plot showing a peak at 5190 MHz. The y-axis ranges from 10.0 to 140.0 dBm/1m, and the x-axis ranges from 5000 to 5260 MHz. A red vertical line marks the peak at 5190 MHz.</p> <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |  <p>Level (dBm/1m) vs Frequency (MHz) plot showing a peak at 5190 MHz. The y-axis ranges from 10.0 to 140.0 dBm/1m, and the x-axis ranges from 1000 to 7000 MHz. A red vertical line marks the peak at 5190 MHz. Labels 'PEAK(UM)' and 'AVG_54' are present.</p> <p>Site : 03CH07-HY Condition : PEAK(UM) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg. |  <p>Level (dBm/1m) vs Frequency (MHz) plot showing an average signal at 5190 MHz. The y-axis ranges from 10.0 to 140.0 dBm/1m, and the x-axis ranges from 5000 to 5260 MHz. A red vertical line marks the peak at 5190 MHz.</p> <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto</p> | Left blank |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|--------------------|---|-------------------|
| ANT | 802.11ax HE40 Partial M CH38 5190MHz - R | |
| 1+2+3+4 | Vertical | Fundamental |
| <p>Peak</p> | <p>Site : 03CH07 HF Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | <p>Left blank</p> |
| <p>Avg.</p> | <p>Site : 03CH07 HF Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p> | <p>Left blank</p> |



| | | |
|---------|---|--|
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
| ANT | 802.11ax HE40 Partial BE CH38 5190MHz - L | |
| 1+2+3+4 | Horizontal | Fundamental |
| Peak |  <p>Level (dBW/m) vs Frequency (MHz) plot showing a peak at approximately 5190 MHz. The y-axis ranges from 10.0 to 140.0 dBW/m, and the x-axis ranges from 5000 to 5260 MHz. A red vertical line marks the peak at 5190 MHz.</p> <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |  <p>Level (dBW/m) vs Frequency (MHz) plot showing a sharp peak at 5190 MHz. The y-axis ranges from 10.0 to 140.0 dBW/m, and the x-axis ranges from 1000 to 7000 MHz. A red vertical line marks the peak at 5190 MHz. Labels 'PEAK(UWB)' and 'AVG_54' are present.</p> <p>Site : 03CH07-HY Condition : PEAK(UWB) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg. |  <p>Level (dBW/m) vs Frequency (MHz) plot showing the average spectrum. The y-axis ranges from 10.0 to 140.0 dBW/m, and the x-axis ranges from 5000 to 5260 MHz. A red vertical line marks the peak at 5190 MHz.</p> <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | Left blank |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|--|--|---|
| ANT | 802.11ax HE40 Partial BE CH38 5190MHz - R | |
| 1+2+3+4 | Horizontal | Fundamental |
| <p style="text-align: center;">Peak</p> | <p style="font-size: small;">Date: 2021-11-08 Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | <p style="text-align: center;">Left blank</p> |
| <p style="text-align: center;">Avg.</p> | <p style="font-size: small;">Date: 2021-11-08 Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | <p style="text-align: center;">Left blank</p> |

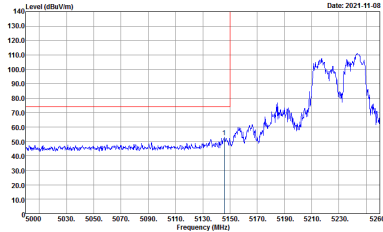
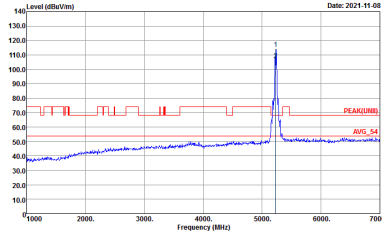
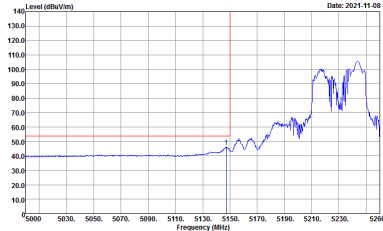


| | | |
|---------|---|--|
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
| ANT | 802.11ax HE40 Partial BE CH38 5190MHz - L | |
| 1+2+3+4 | Vertical | Fundamental |
| Peak | <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | <p>Site : 03CH07-HY Condition : PEAK(UWB) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg. | <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | Left blank |

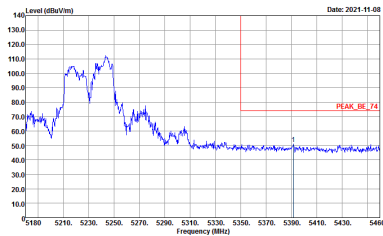
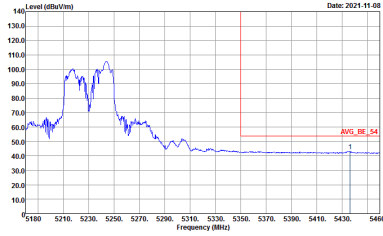


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|--------------------|---|-------------------|
| ANT | 802.11ax HE40 Partial BE CH38 5190MHz - R | |
| 1+2+3+4 | Vertical | Fundamental |
| <p>Peak</p> | <p>Site : 03CH07 HF Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | <p>Left blank</p> |
| <p>Avg.</p> | <p>Site : 03CH07 HF Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | <p>Left blank</p> |



| | | |
|---------|---|---|
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
| ANT | 802.11ax HE40 Partial M CH46 5230MHz - L | |
| 1+2+3+4 | Horizontal | Fundamental |
| Peak |  <p>Level (dBW/m) Date: 2021-11-08</p> <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |  <p>Level (dBW/m) Date: 2021-11-08</p> <p>Site : 03CH07-HY Condition : PEAK(FUN) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg. |  <p>Level (dBW/m) Date: 2021-11-08</p> <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto</p> | Left blank |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|---------|---|-------------|
| ANT | 802.11ax HE40 Partial M CH46 5230MHz - R | |
| 1+2+3+4 | Horizontal | Fundamental |
| Peak |  <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | Left blank |
| Avg. |  <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto</p> | Left blank |

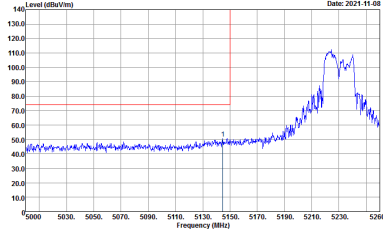
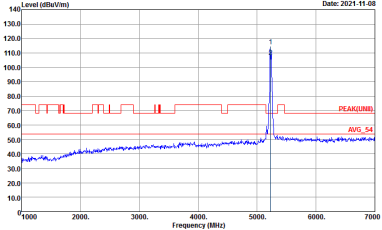
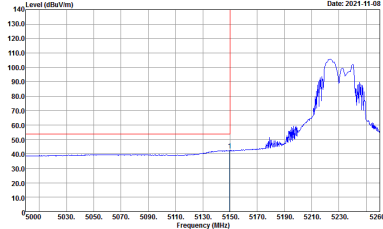


| | | |
|---------|--|-------------|
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
| ANT | 802.11ax HE40 Partial M CH46 5230MHz - L | |
| 1+2+3+4 | Vertical | Fundamental |
| Peak | | |
| Avg. | | Left blank |

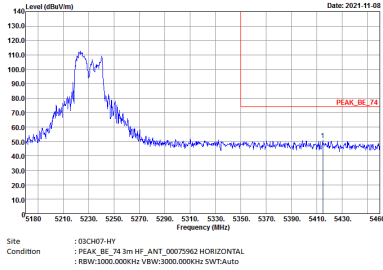
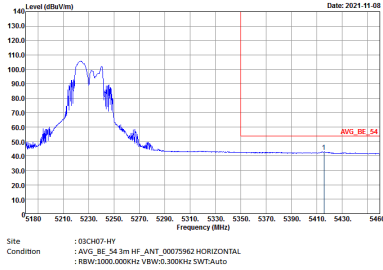


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|--------------------|--|-------------------|
| ANT | 802.11ax HE40 Partial M CH46 5230MHz - R | |
| 1+2+3+4 | Vertical | Fundamental |
| <p>Peak</p> | <p>Site : 03CH07 HF Condition : PEAK_BE_24 3m HF_ANT_000796Q VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | <p>Left blank</p> |
| <p>Avg.</p> | <p>Site : 03CH07 HF Condition : AVG_BE_24 3m HF_ANT_000796Q VERTICAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto</p> | <p>Left blank</p> |

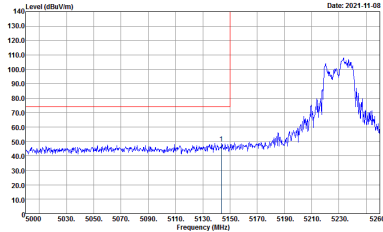
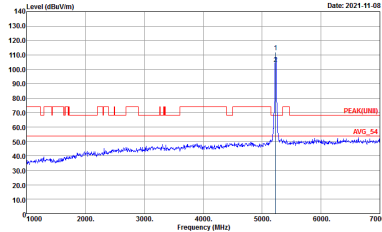
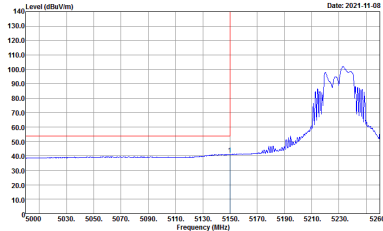


| | | |
|---------|--|--|
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
| ANT | 802.11ax HE40 Partial BE CH46 5230MHz - L | |
| 1+2+3+4 | Horizontal | Fundamental |
| Peak |  <p>Level (dBW/m) vs Frequency (MHz) plot showing a peak at approximately 5230 MHz. The y-axis ranges from 10.0 to 140.0 dBW/m, and the x-axis ranges from 5000 to 5260 MHz. A red vertical line marks the peak at 5230 MHz.</p> <p>Site : 03CH07-HY Condition : PEAK_BE_24_3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |  <p>Level (dBW/m) vs Frequency (MHz) plot showing a sharp peak at approximately 5230 MHz. The y-axis ranges from 10.0 to 140.0 dBW/m, and the x-axis ranges from 4000 to 7000 MHz. A red vertical line marks the peak at 5230 MHz. Labels 'PEAK(UWB)' and 'AVG_54' are present.</p> <p>Site : 03CH07-HY Condition : PEAK(UWB)_3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg. |  <p>Level (dBW/m) vs Frequency (MHz) plot showing the average spectrum for the horizontal polarization. The y-axis ranges from 10.0 to 140.0 dBW/m, and the x-axis ranges from 5000 to 5260 MHz. A red vertical line marks the peak at 5230 MHz.</p> <p>Site : 03CH07-HY Condition : AVG_BE_24_3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | Left blank |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|---------|---|-------------|
| ANT | 802.11ax HE40 Partial BE CH46 5230MHz - R | |
| 1+2+3+4 | Horizontal | Fundamental |
| Peak |  | Left blank |
| Avg. |  | Left blank |



| | | |
|---------|--|--|
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
| ANT | 802.11ax HE40 Partial BE CH46 5230MHz - L | |
| 1+2+3+4 | Vertical | Fundamental |
| Peak |  <p>Level (dBm/1m) vs Frequency (MHz) plot showing a peak at approximately 5230 MHz. The y-axis ranges from 10.0 to 140.0 dBm/1m, and the x-axis ranges from 5000 to 5260 MHz. A red vertical line marks the peak at 5230 MHz.</p> <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_000759K2 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Level (dBm/1m) vs Frequency (MHz) plot showing a sharp peak at approximately 5230 MHz. The y-axis ranges from 10.0 to 140.0 dBm/1m, and the x-axis ranges from 1000 to 7000 MHz. A red vertical line marks the peak at 5230 MHz. Labels 'PEAK(UWB)' and 'AVG_54' are present.</p> <p>Site : 03CH07-HY Condition : PEAK(UWB) 3m HF_ANT_000759K2 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Level (dBm/1m) vs Frequency (MHz) plot showing the average signal for the vertical polarization. The y-axis ranges from 10.0 to 140.0 dBm/1m, and the x-axis ranges from 5000 to 5260 MHz. A red vertical line marks the peak at 5230 MHz.</p> <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_000759K2 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | Left blank |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|--------------------|---|-------------------|
| ANT | 802.11ax HE40 Partial BE CH46 5230MHz - R | |
| 1+2+3+4 | Vertical | Fundamental |
| <p>Peak</p> | | <p>Left blank</p> |
| <p>Avg.</p> | | <p>Left blank</p> |



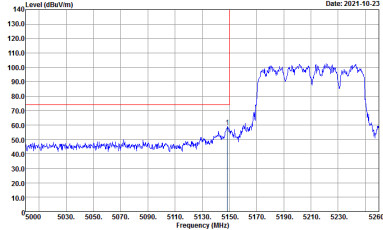
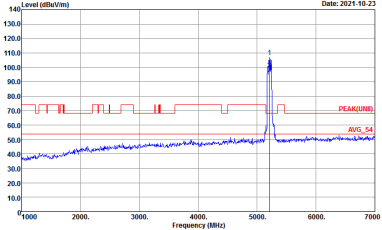
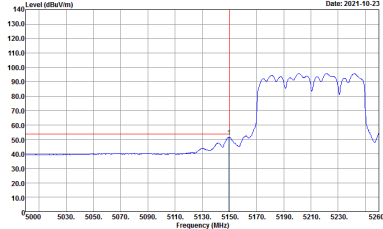
Band 1 5150~5250MHz
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|-------------|---|---|
| ANT | 802.11ax HE80 Full CH42 5210MHz - L | |
| 1+2+3+4 | Horizontal | Fundamental |
| Peak | <p>Date: 2021-10-23</p> <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | <p>Date: 2021-10-23</p> <p>Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg. | <p>Date: 2021-10-23</p> <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:0.300kHz SWT:Auto</p> | Left blank |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|--------------------|-------------------------------------|-------------------|
| ANT | 802.11ax HE80 Full CH42 5210MHz - R | |
| 1+2+3+4 | Horizontal | Fundamental |
| <p>Peak</p> | | <p>Left blank</p> |
| <p>Avg.</p> | | <p>Left blank</p> |



| | | |
|---------|--|---|
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
| ANT | 802.11ax HE80 Full CH42 5210MHz - L | |
| 1+2+3+4 | Vertical | Fundamental |
| Peak |  <p>Date: 2021-10-23</p> <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |  <p>Date: 2021-10-23</p> <p>Site : 03CH07-HY Condition : PEAK(FUN) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg. |  <p>Date: 2021-10-23</p> <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | Left blank |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|---------|---|-------------|
| ANT | 802.11ax HE80 Full CH42 5210MHz - R | |
| 1+2+3+4 | Vertical | Fundamental |
| Peak | <p>Level (dBm/1m)</p> <p>Date: 2024-10-23</p> <p>Frequency (MHz)</p> <p>PEAK_BE_24</p> <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_0007962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | Left blank |
| Avg. | <p>Level (dBm/1m)</p> <p>Date: 2024-10-23</p> <p>Frequency (MHz)</p> <p>AVG_BE_24</p> <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_0007962 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | Left blank |



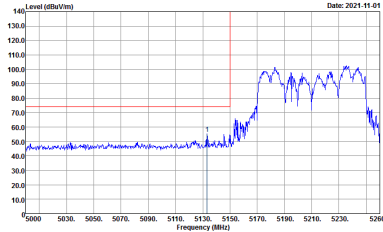
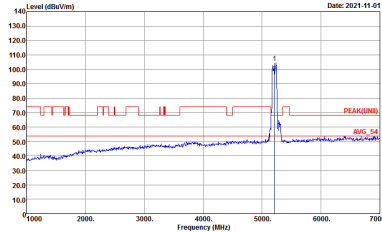
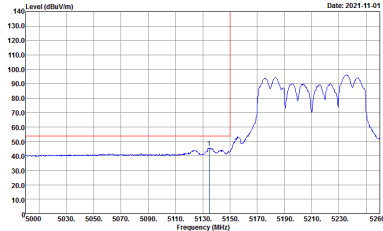
Band 1 5150~5250MHz
WIFI 802.11ax HE80 Partial RU (Band Edge @ 3m)

| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|-------------|---|---|
| ANT | 802.11ax HE80 Partial M CH42 5210MHz - L | |
| 1+2+3+4 | Horizontal | Fundamental |
| Peak | <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> | <p>Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. | <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p> | Left blank |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|--------------------|--|-------------------|
| ANT | 802.11ax HE80 Partial M CH42 5210MHz - R | |
| 1+2+3+4 | Horizontal | Fundamental |
| <p>Peak</p> | | <p>Left blank</p> |
| <p>Avg.</p> | | <p>Left blank</p> |

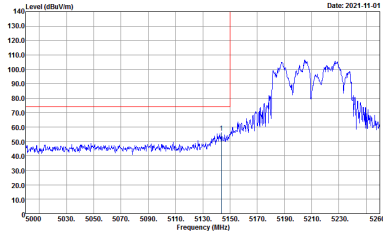
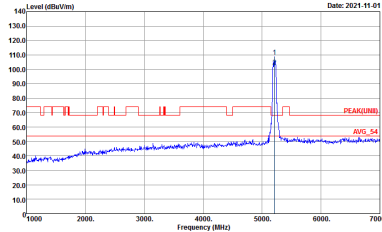
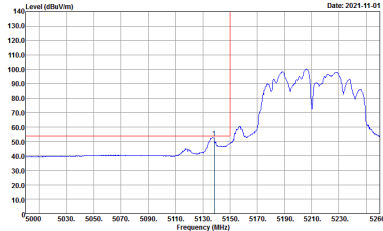


| | | |
|---------|---|--|
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
| ANT | 802.11ax HE80 Partial M CH42 5210MHz - L | |
| 1+2+3+4 | Vertical | Fundamental |
| Peak |  <p>Level (dBW/m) vs Frequency (MHz) plot showing a peak at 5210 MHz. The y-axis ranges from 10.0 to 140.0 dBW/m, and the x-axis ranges from 5000 to 5260 MHz. A red vertical line marks the peak at 5210 MHz.</p> <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_000759K2 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |  <p>Level (dBW/m) vs Frequency (MHz) plot showing a peak at 5210 MHz. The y-axis ranges from 10.0 to 140.0 dBW/m, and the x-axis ranges from 1000 to 7000 MHz. A red vertical line marks the peak at 5210 MHz. Labels 'PEAK(UWB)' and 'AVG_54' are present.</p> <p>Site : 03CH07-HY Condition : PEAK(UWB) 3m HF_ANT_000759K2 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p> |
| Avg. |  <p>Level (dBW/m) vs Frequency (MHz) plot showing the average signal. The y-axis ranges from 10.0 to 140.0 dBW/m, and the x-axis ranges from 5000 to 5260 MHz. A red vertical line marks the peak at 5210 MHz.</p> <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_000759K2 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p> | Left blank |



| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|--------------------|---|-------------------|
| ANT | 802.11ax HE80 Partial M CH42 5210MHz - R | |
| 1+2+3+4 | Vertical | Fundamental |
| <p>Peak</p> | <p>Site : 03CH07 HF Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | <p>Left blank</p> |
| <p>Avg.</p> | <p>Site : 03CH07 HF Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3.000kHz SWT:Auto</p> | <p>Left blank</p> |

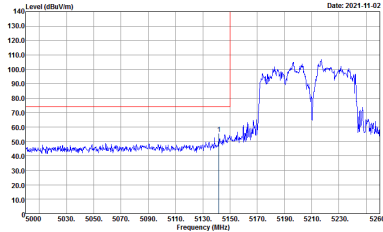
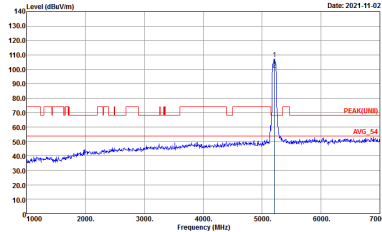
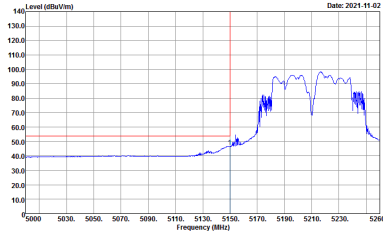


| | | |
|---------|--|--|
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
| ANT | 802.11ax HE80 Partial BE CH42 5210MHz - L | |
| 1+2+3+4 | Horizontal | Fundamental |
| Peak |  <p>Level (dBW/m) vs Frequency (MHz) plot showing a peak at 5210 MHz. The y-axis ranges from 10.0 to 140.0 dBW/m, and the x-axis ranges from 5000 to 5260 MHz. A red vertical line marks the peak at 5210 MHz.</p> <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |  <p>Level (dBW/m) vs Frequency (MHz) plot showing a sharp peak at 5210 MHz. The y-axis ranges from 10.0 to 140.0 dBW/m, and the x-axis ranges from 4000 to 7000 MHz. A red vertical line marks the peak at 5210 MHz. Labels 'PEAK(UWB)' and 'AVG_54' are present.</p> <p>Site : 03CH07-HY Condition : PEAK(UWB) 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg. |  <p>Level (dBW/m) vs Frequency (MHz) plot showing the average signal. The y-axis ranges from 10.0 to 140.0 dBW/m, and the x-axis ranges from 5000 to 5260 MHz. A red vertical line marks the peak at 5210 MHz.</p> <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | Left blank |

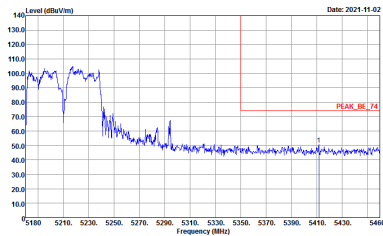
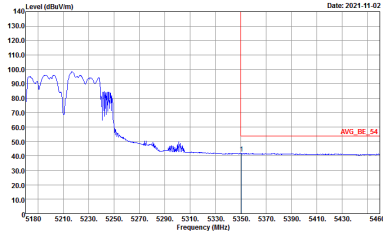


| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|--------------------|---|-------------------|
| ANT | 802.11ax HE80 Partial BE CH42 5210MHz - R | |
| 1+2+3+4 | Horizontal | Fundamental |
| <p>Peak</p> | <p>Site : 03CH07 HF Condition : PEAK_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | <p>Left blank</p> |
| <p>Avg.</p> | <p>Site : 03CH07 HF Condition : AVG_BE_24 3m HF_ANT_00075962 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | <p>Left blank</p> |



| | | |
|---------|--|--|
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
| ANT | 802.11ax HE80 Partial BE CH42 5210MHz - L | |
| 1+2+3+4 | Vertical | Fundamental |
| Peak |  <p>Level (dBW/m) vs Frequency (MHz) plot showing a peak at 5210 MHz. The y-axis ranges from 10.0 to 140.0 dBW/m, and the x-axis ranges from 5000 to 5260 MHz. A red vertical line marks the peak at 5210 MHz.</p> <p>Site : 03CH07-HY Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |  <p>Level (dBW/m) vs Frequency (MHz) plot showing a peak at 5210 MHz. The y-axis ranges from 10.0 to 140.0 dBW/m, and the x-axis ranges from 1000 to 7000 MHz. A red vertical line marks the peak at 5210 MHz. Labels 'PEAK(UWB)' and 'AVG_54' are present.</p> <p>Site : 03CH07-HY Condition : PEAK(UWB) 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> |
| Avg. |  <p>Level (dBW/m) vs Frequency (MHz) plot showing the average signal. The y-axis ranges from 10.0 to 140.0 dBW/m, and the x-axis ranges from 5000 to 5260 MHz. A red vertical line marks the peak at 5210 MHz.</p> <p>Site : 03CH07-HY Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | Left blank |



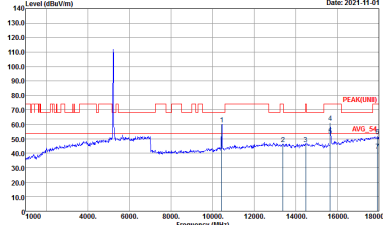
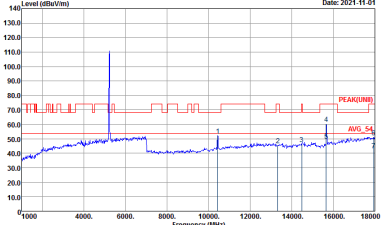
| WIFI | Band 1 5150~5250MHz Band Edge @ 3m | |
|--------------------|--|-------------------|
| ANT | 802.11ax HE80 Partial BE CH42 5210MHz - R | |
| 1+2+3+4 | Vertical | Fundamental |
| <p>Peak</p> |  <p>Site : 03CH07 HF Condition : PEAK_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | <p>Left blank</p> |
| <p>Avg.</p> |  <p>Site : 03CH07 HF Condition : AVG_BE_24 3m HF_ANT_00075962 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p> | <p>Left blank</p> |



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

| | | |
|----------------------------|---|---|
| WIFI | Band 1 5150~5250MHz Harmonic @ 3m | |
| ANT | 802.11a CH36 5180MHz | |
| 1+2+3+4 | Horizontal | Vertical |
| Peak Avg. | <p>Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 HORIZONTAL</p> | <p>Site : 03CH07-HY Condition : PEAK(UNII) 3m HF_ANT_00075962 VERTICAL</p> |



| | | |
|----------------------|---|--|
| WIFI | Band 1 5150~5250MHz Harmonic @ 3m | |
| ANT | 802.11a CH44 5220MHz | |
| 1+2+3+4 | Horizontal | Vertical |
| Peak Avg. |  <p>Site : 03CH07-HY Condition : PEAK(LIN) 3m HF_ANT_00075962 HORIZONTAL</p> |  <p>Site : 03CH07-HY Condition : PEAK(LIN) 3m HF_ANT_00075962 VERTICAL</p> |