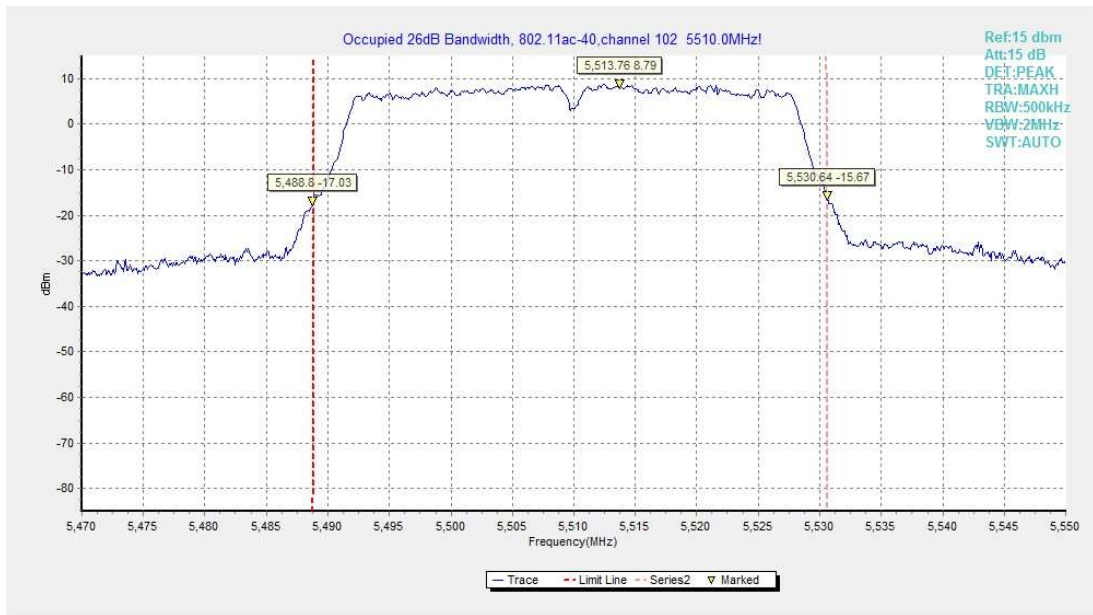


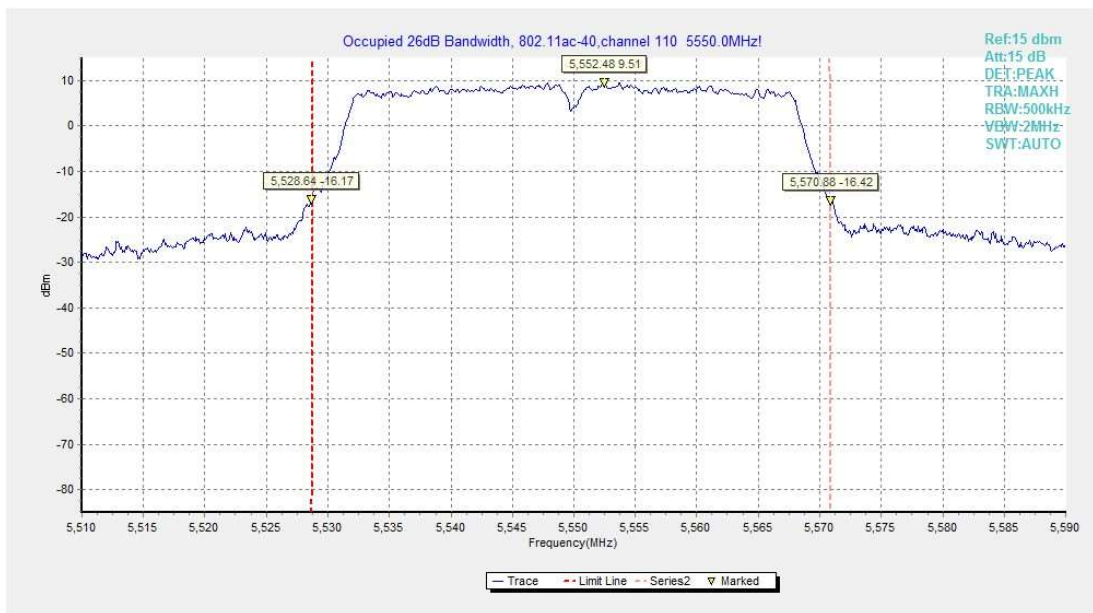
**Fig.41 Occupied 26dB Bandwidth (802.11ac-HT40, 5270MHz)**



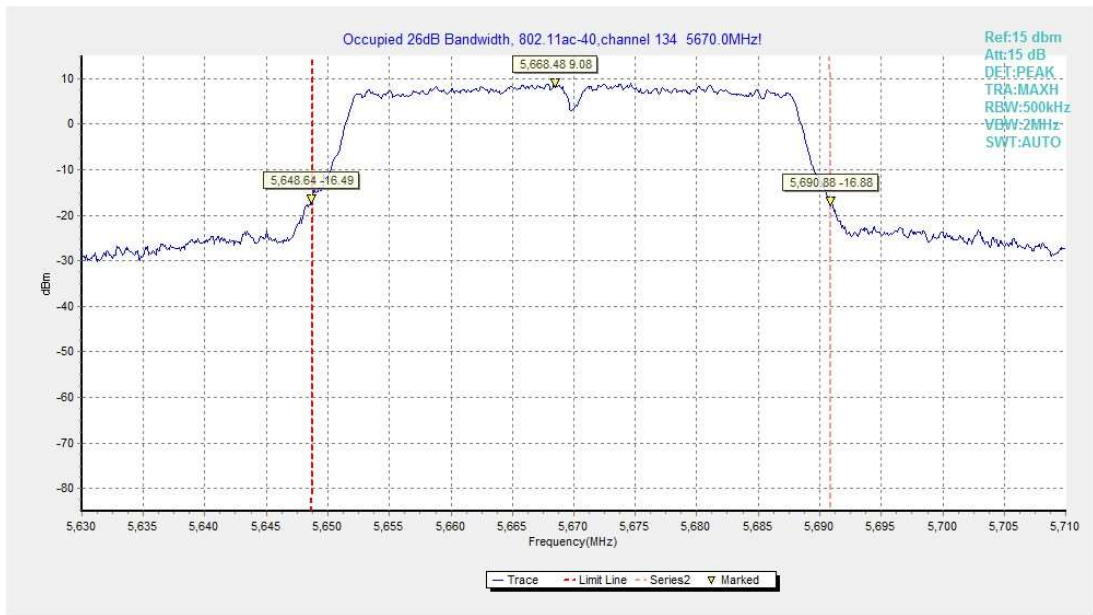
**Fig.42 Occupied 26dB Bandwidth (802.11ac-HT40, 5310MHz)**



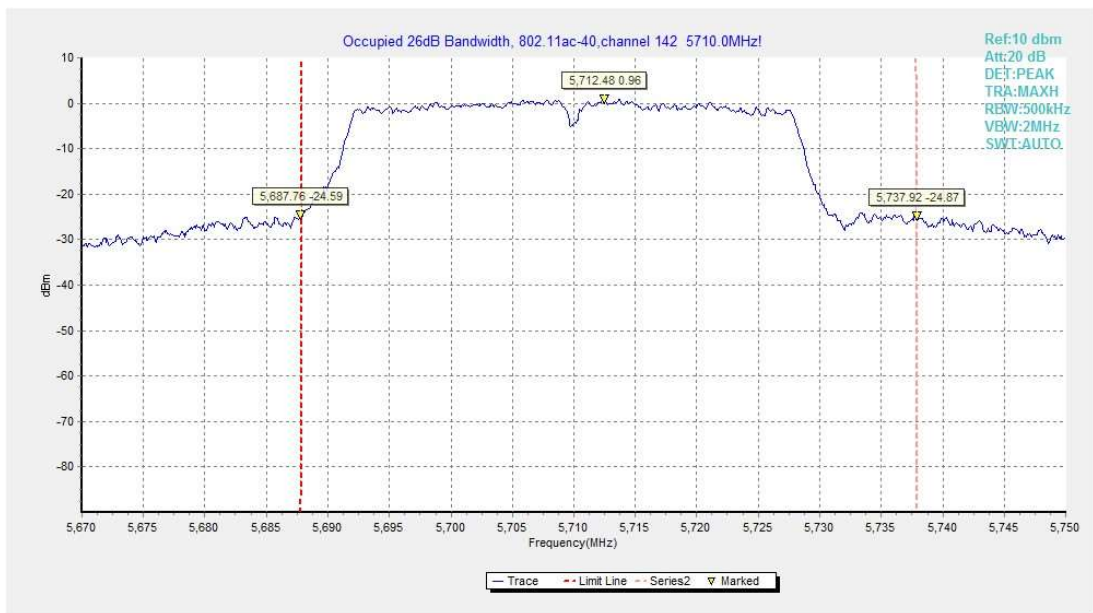
**Fig.43 Occupied 26dB Bandwidth (802. 11ac-HT40, 5510MHz)**



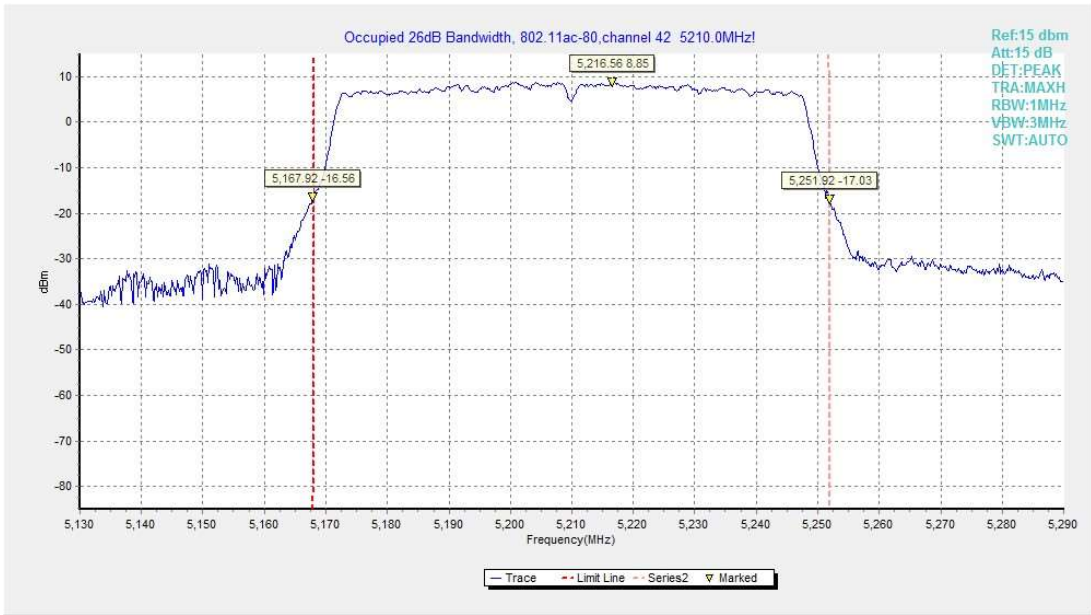
**Fig.44 Occupied 26dB Bandwidth (802. 11ac-HT40, 5550MHz)**



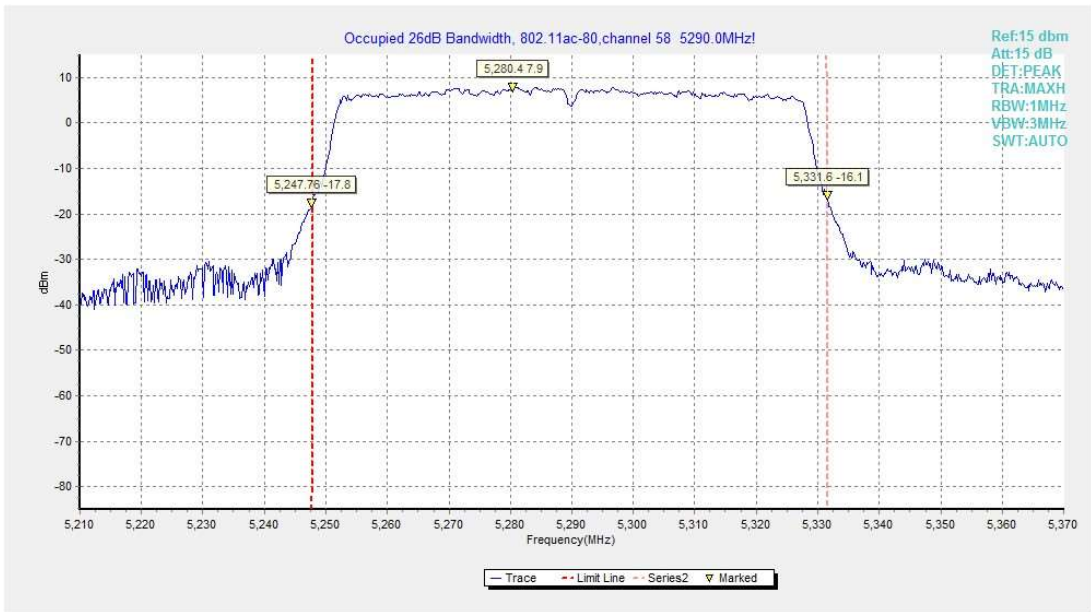
**Fig.45 Occupied 26dB Bandwidth (802. 11ac-HT40, 5670MHz)**



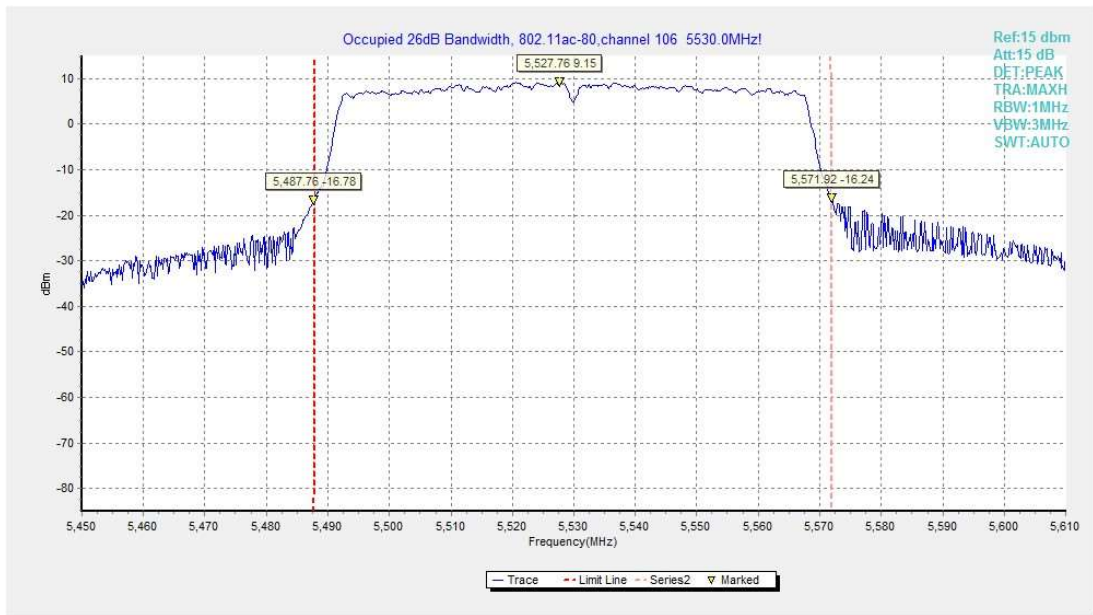
**Fig.46 Occupied 26dB Bandwidth (802. 11ac-HT40, 5710MHz)**



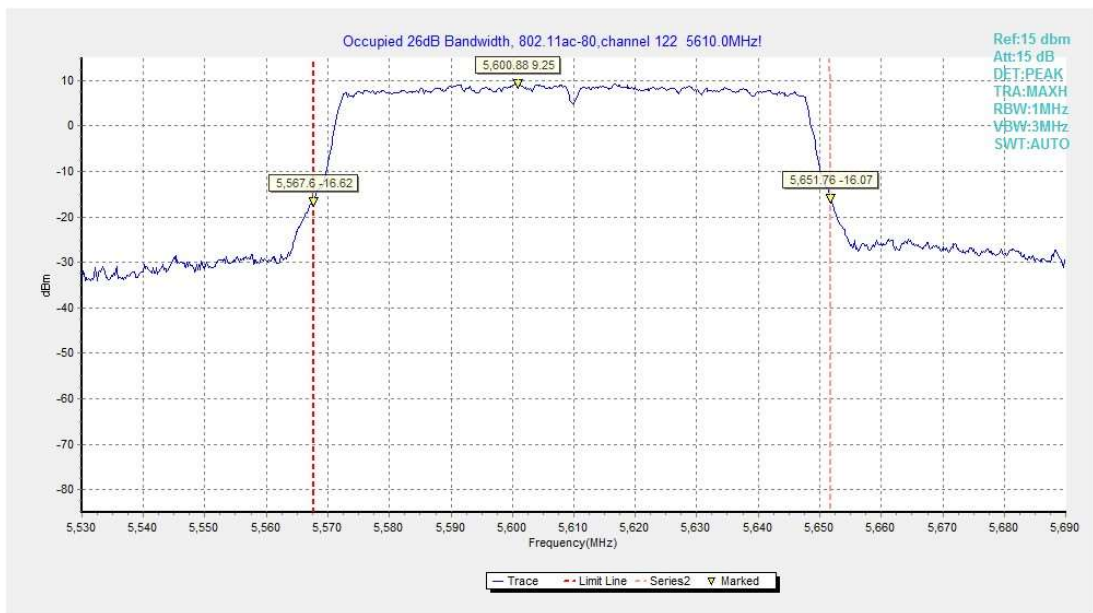
**Fig.47 Occupied 26dB Bandwidth (802. 11ac-HT80, 5210MHz)**



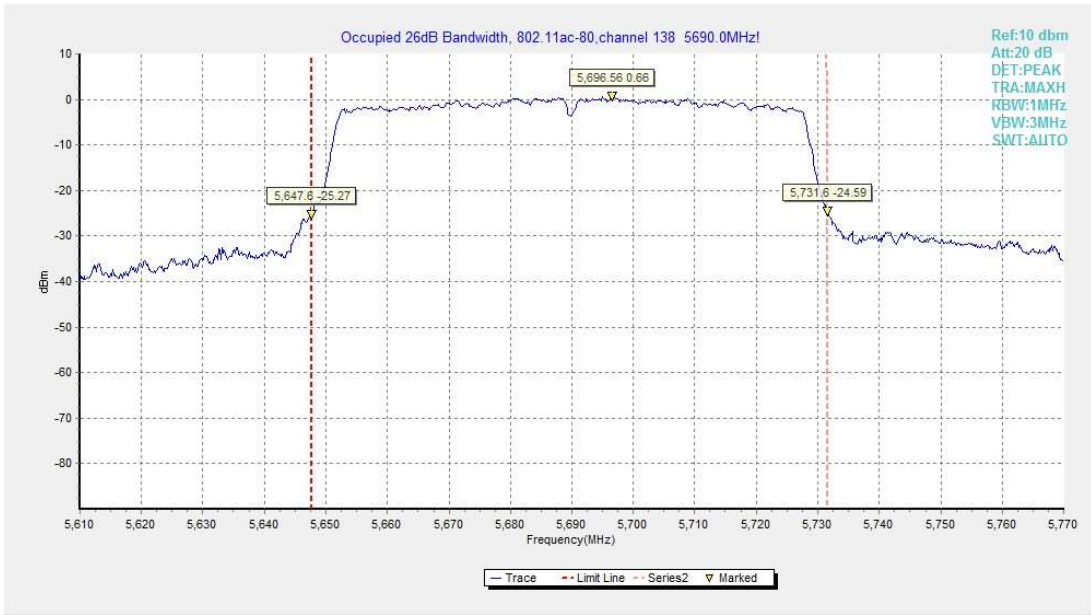
**Fig.48 Occupied 26dB Bandwidth (802. 11ac-HT80, 5290MHz)**



**Fig.49 Occupied 26dB Bandwidth (802.11ac-HT80, 5530MHz)**



**Fig.50 Occupied 26dB Bandwidth (802.11ac-HT80, 5610MHz)**



**Fig.51 Occupied 26dB Bandwidth (802. 11ac-HT80, 5690MHz)**

## A.5. Band Edges Compliance

### A5.1 Band Edges - Radiated

#### Measurement Limit:

| Standard | Limit (dB $\mu$ V/m)   |      |
|----------|------------------------|------|
|          | FCC 47 CFR Part 15.209 | Peak |
| Average  |                        | 54   |

The measurement is made according to KDB 789033

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

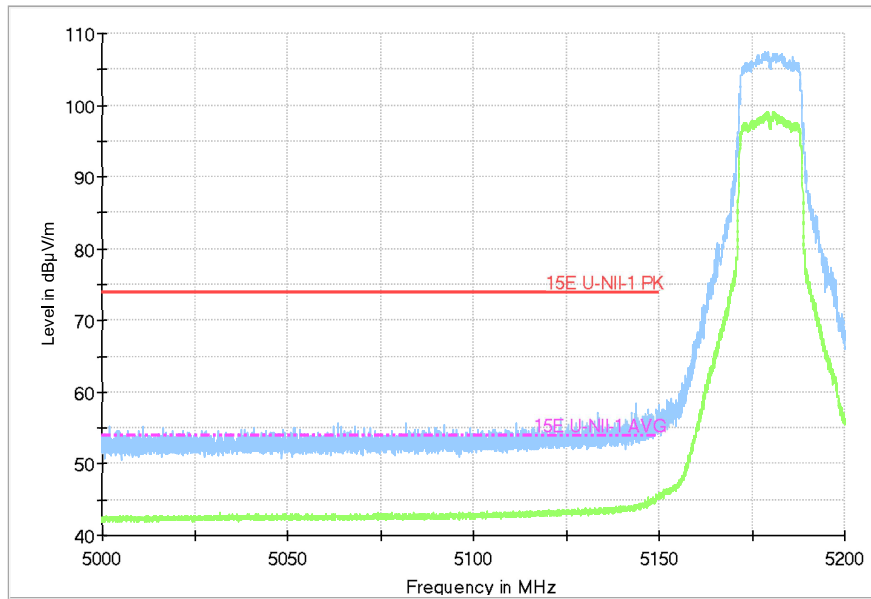
#### Measurement Result:

| Mode             | Channel  | Test Results | Conclusion |
|------------------|----------|--------------|------------|
| 802.11a          | 5180 MHz | Fig.52       | P          |
|                  | 5320 MHz | Fig.53       | P          |
|                  | 5500 MHz | Fig.54       | P          |
|                  | 5700 MHz | Fig.55       | P          |
| 802.11n<br>HT20  | 5180 MHz | Fig.56       | P          |
|                  | 5320 MHz | Fig.57       | P          |
|                  | 5500 MHz | Fig.58       | P          |
|                  | 5700 MHz | Fig.59       | P          |
| 802.11ac<br>HT20 | 5180 MHz | Fig.60       | P          |
|                  | 5320 MHz | Fig.61       | P          |
|                  | 5500 MHz | Fig.62       | P          |
|                  | 5700 MHz | Fig.63       | P          |
| 802.11n<br>HT40  | 5190 MHz | Fig.64       | P          |
|                  | 5310 MHz | Fig.65       | P          |
|                  | 5510 MHz | Fig.66       | P          |
|                  | 5670 MHz | Fig.67       | P          |
| 802.11ac<br>HT40 | 5190 MHz | Fig.68       | P          |
|                  | 5310 MHz | Fig.69       | P          |
|                  | 5510 MHz | Fig.70       | P          |
|                  | 5670 MHz | Fig.71       | P          |
| 802.11ac<br>HT80 | 5210MHz  | Fig.72       | P          |
|                  | 5290MHz  | Fig.73       | P          |
|                  | 5530MHz  | Fig.74       | P          |

**Conclusion: PASS**

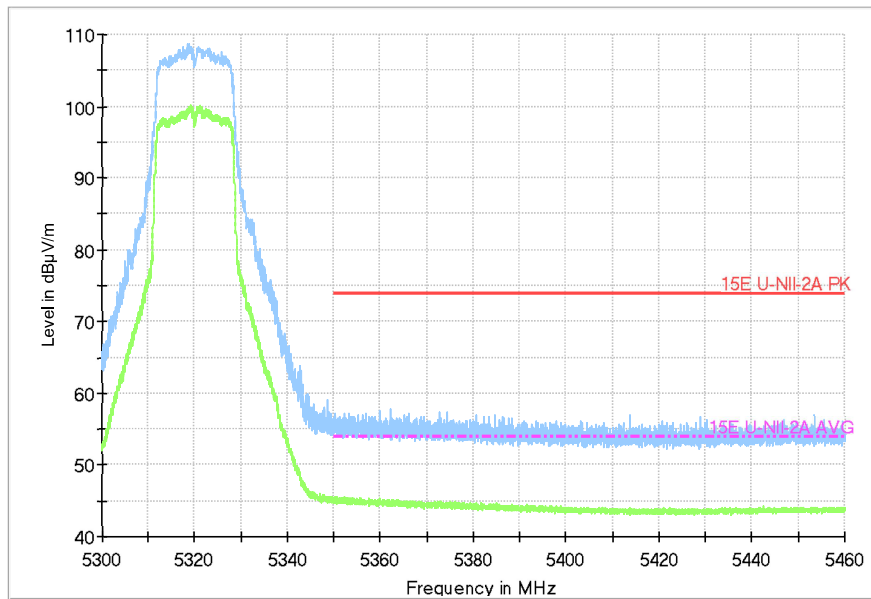
**Test graphs as below:**

Full Spectrum



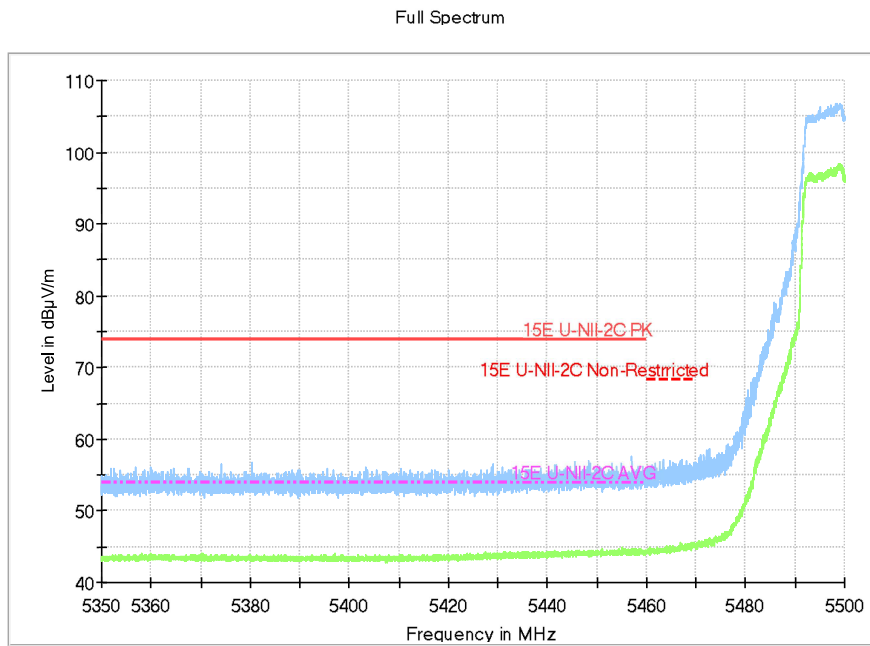
**Fig.52 Band Edges (802.11a, 5180MHz)**

Full Spectrum

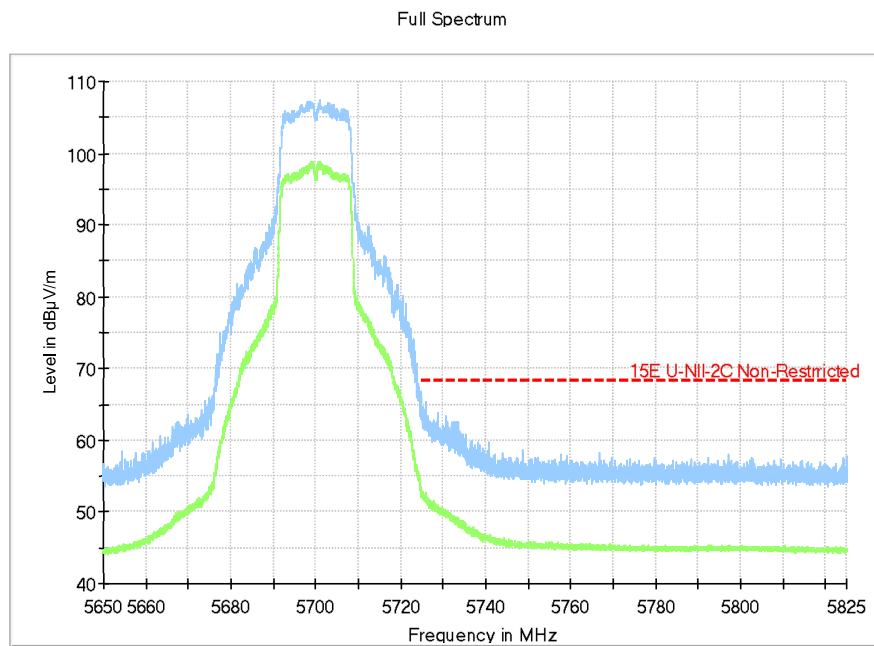


**Fig.53 Band Edges (802.11a, 5320MHz)**

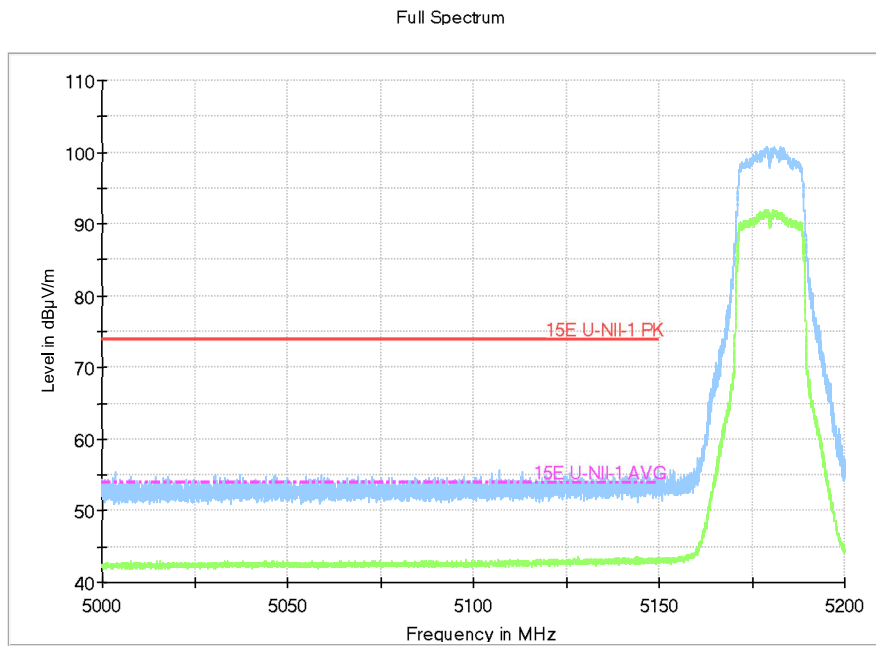




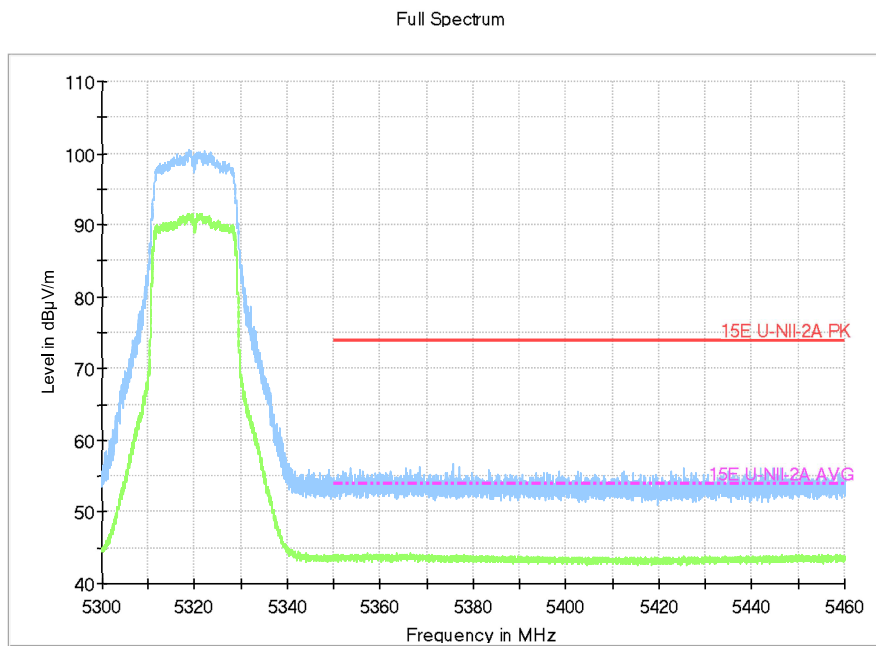
**Fig.54 Band Edges (802.11a, 5500MHz)**



**Fig.55 Band Edges (802.11a, 5700MHz)**

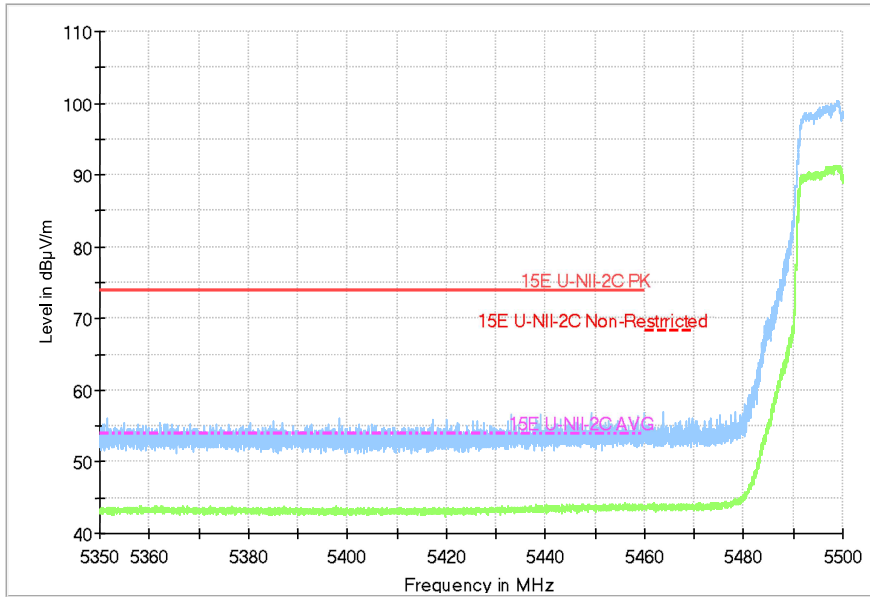


**Fig.56 Band Edges (802.11n-HT20, 5180MHz)**



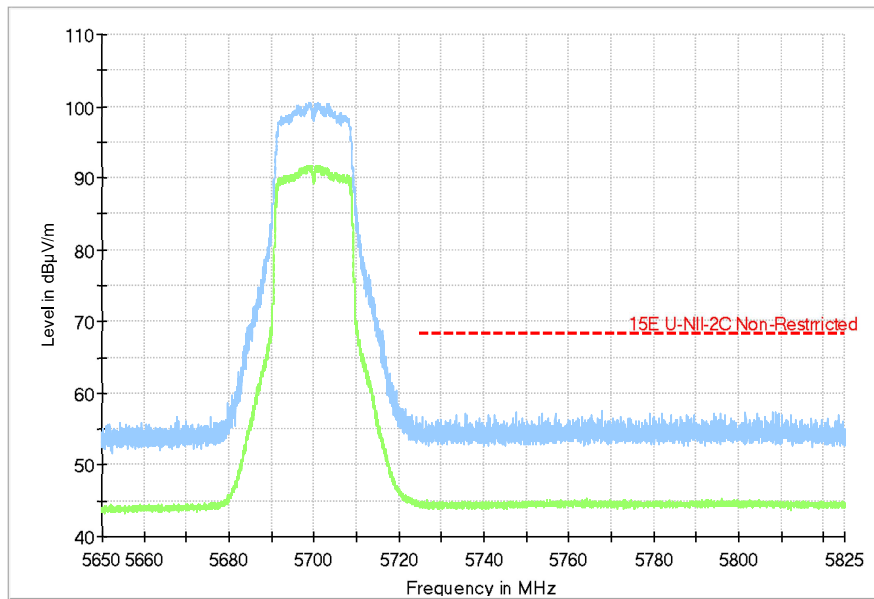
**Fig.57 Band Edges (802.11n-HT20, 5320MHz)**

Full Spectrum

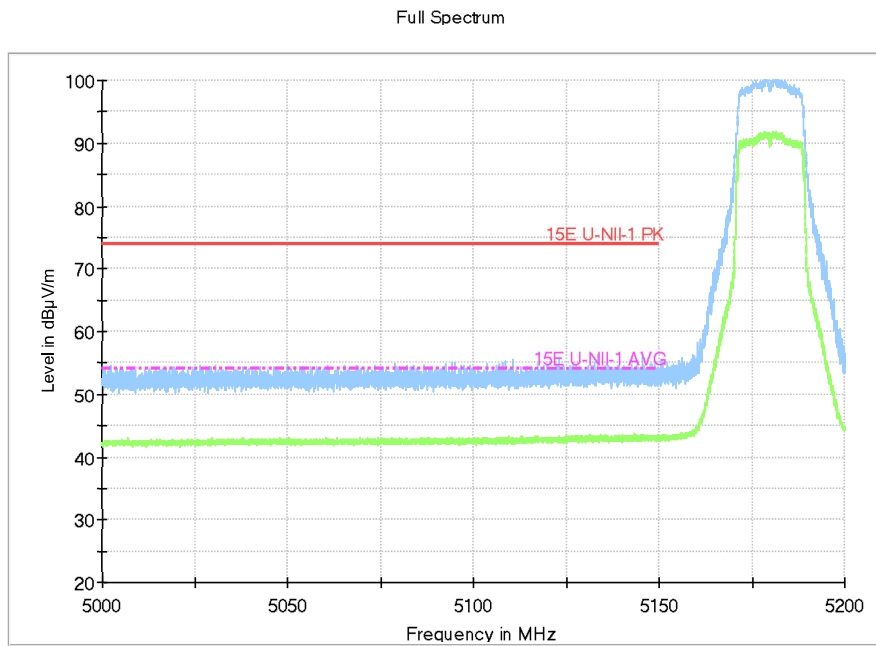


**Fig.58 Band Edges (802.11n-HT20, 5500MHz)**

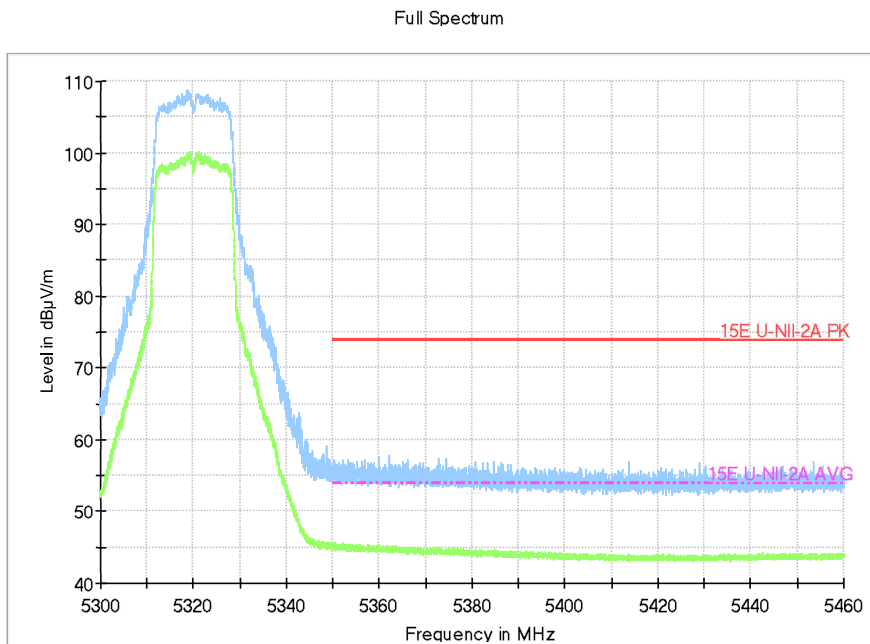
Full Spectrum



**Fig.59 Band Edges (802.11n-HT20, 5700MHz)**

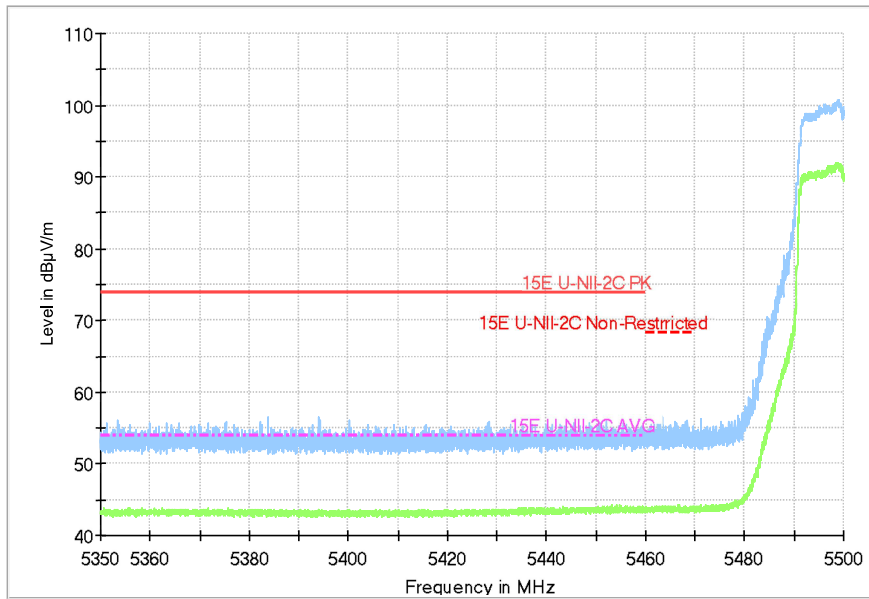


**Fig.60 Band Edges (802.11ac-HT20, 5180MHz)**



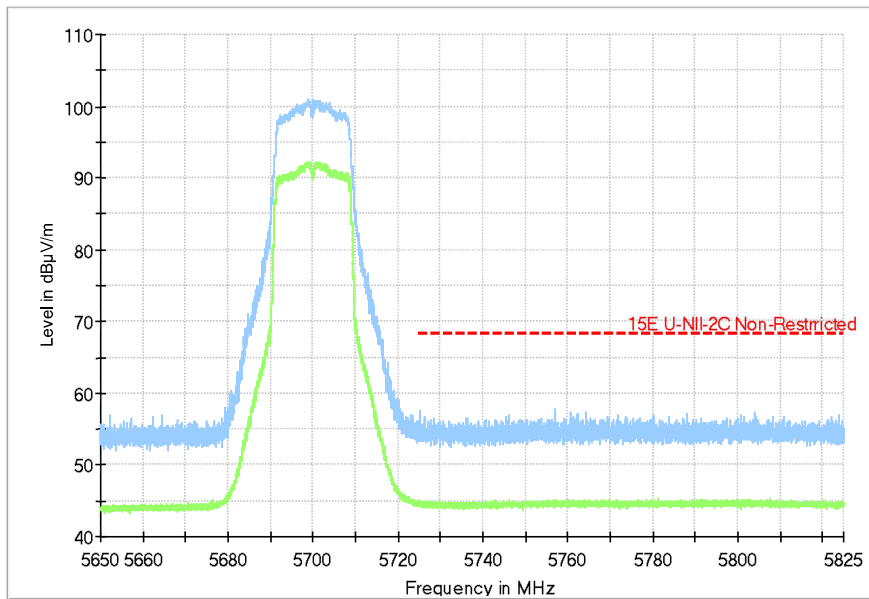
**Fig.61 Band Edges (802.11ac-HT20, 5320MHz)**

Full Spectrum

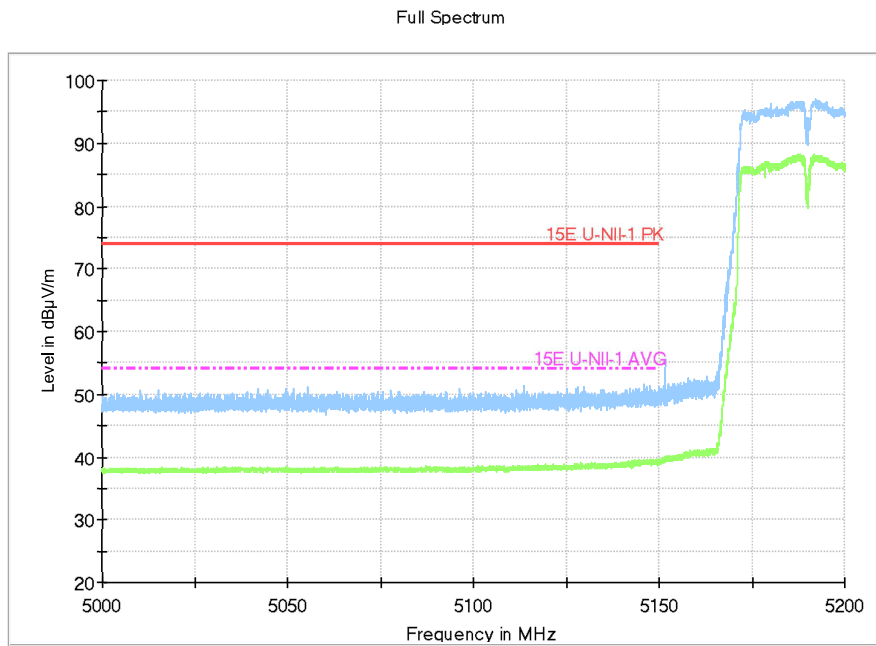


**Fig.62 Band Edges (802.11ac-HT20, 5500MHz)**

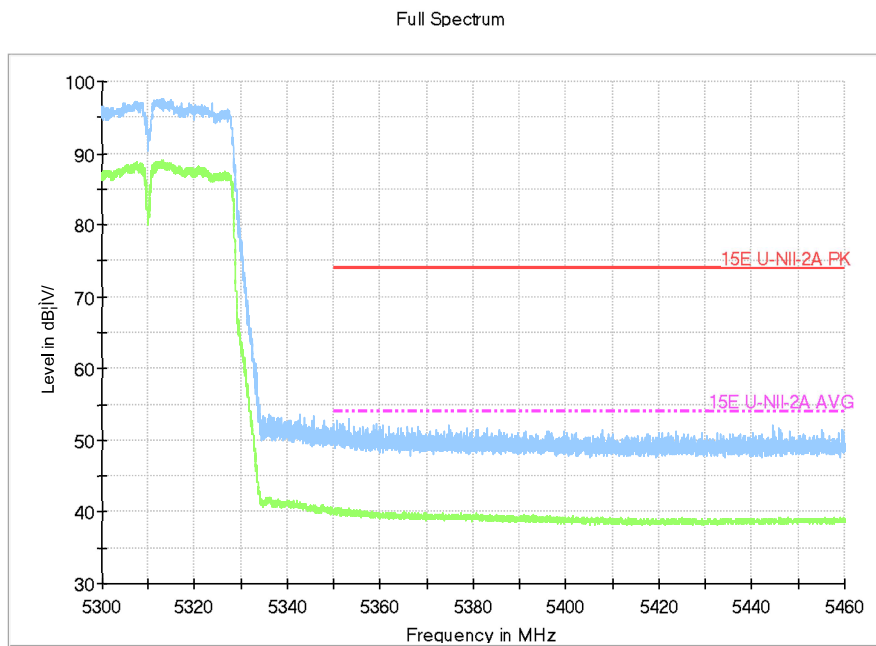
Full Spectrum



**Fig.63 Band Edges (802.11ac-HT20, 5700MHz)**

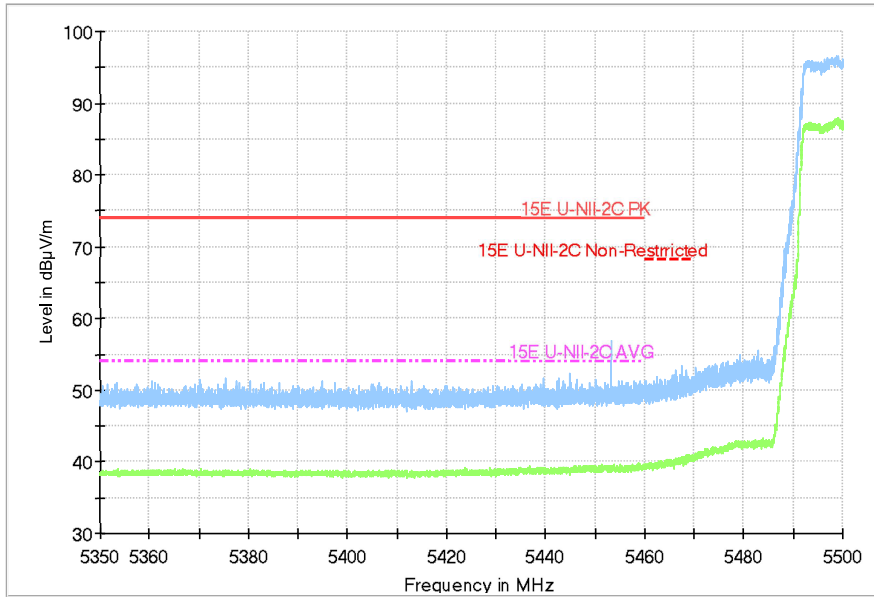


**Fig.64 Band Edges (802.11n-HT40, 5190MHz)**



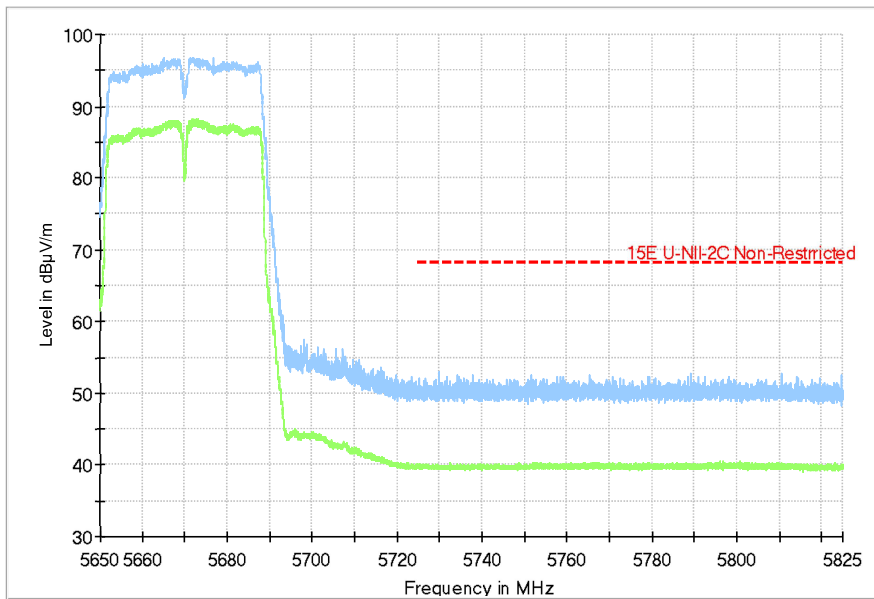
**Fig.65 Band Edges (802.11n-HT40, 5310MHz)**

Full Spectrum



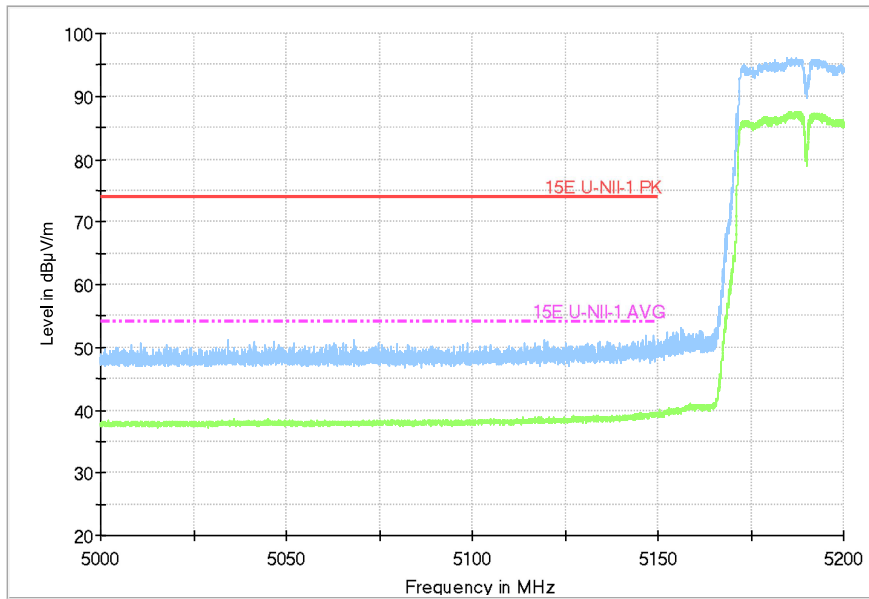
**Fig.66 Band Edges (802.11n-HT40, 5510MHz)**

Full Spectrum



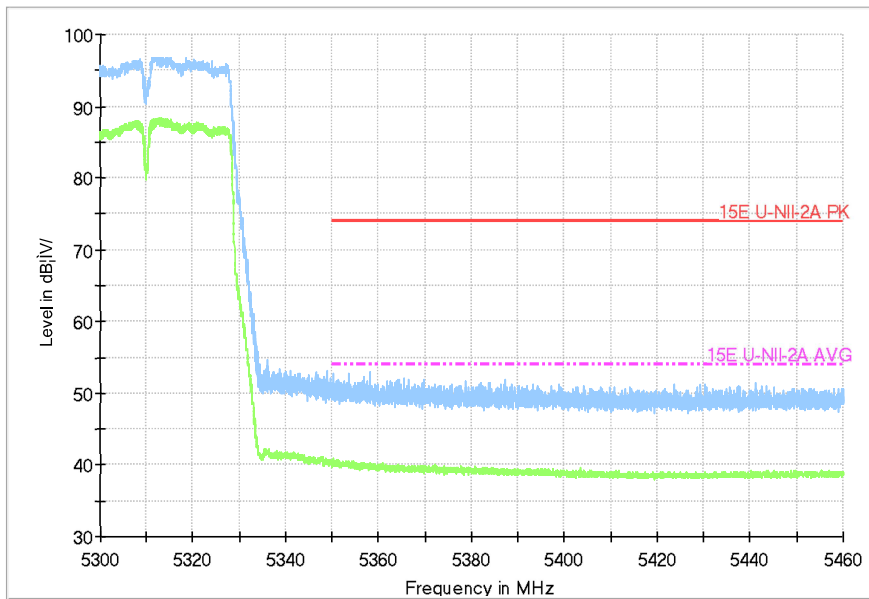
**Fig.67 Band Edges (802.11n-HT40, 5670MHz)**

Full Spectrum



**Fig.68 Band Edges (802.11ac-HT40, 5190MHz)**

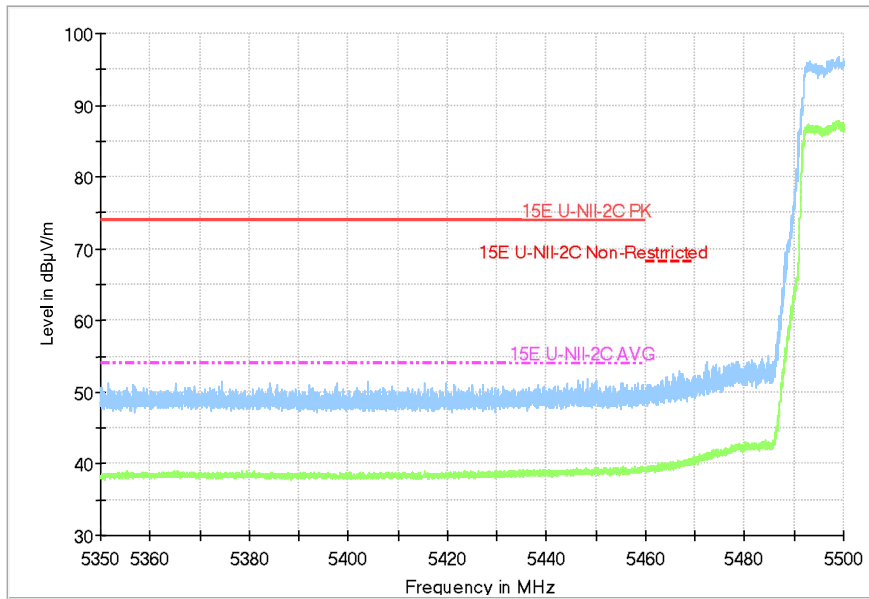
Full Spectrum



**Fig.69 Band Edges (802.11ac-HT40, 5310MHz)**

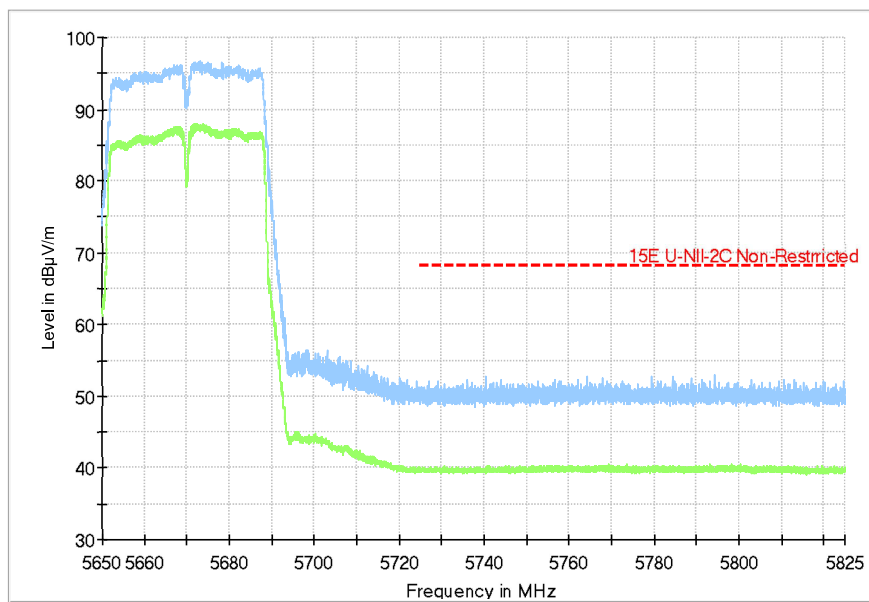


Full Spectrum



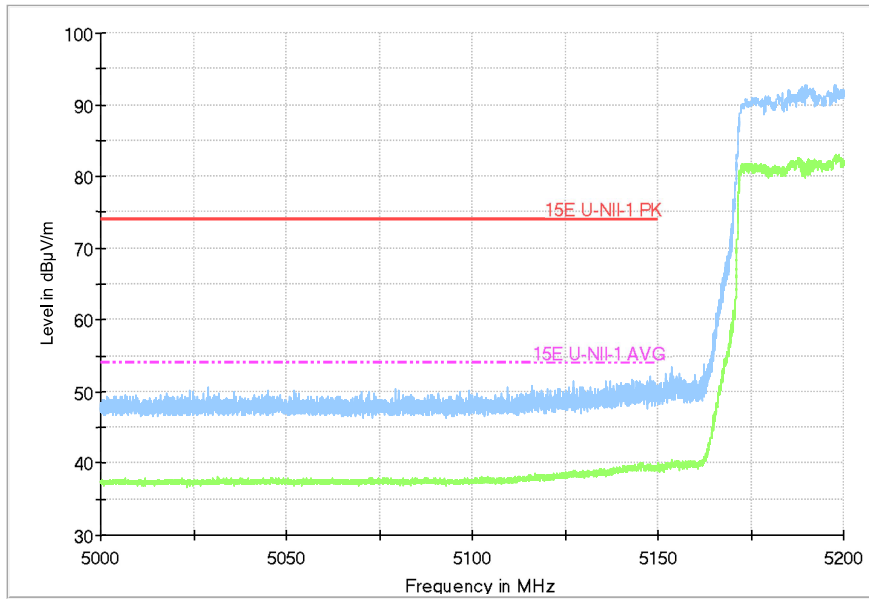
**Fig.70 Band Edges (802.11ac-HT40, 5510MHz)**

Full Spectrum



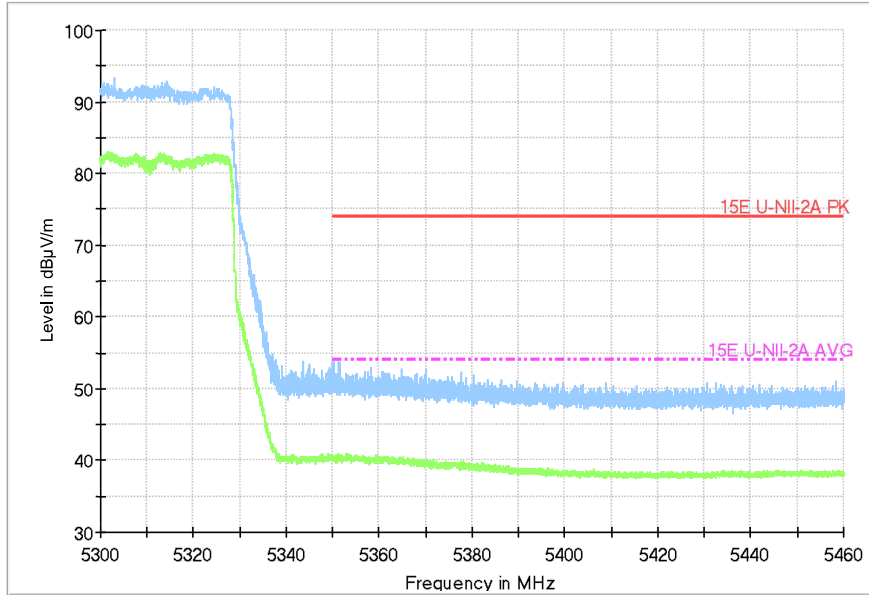
**Fig.71 Band Edges (802.11ac-HT40, 5670MHz)**

Full Spectrum



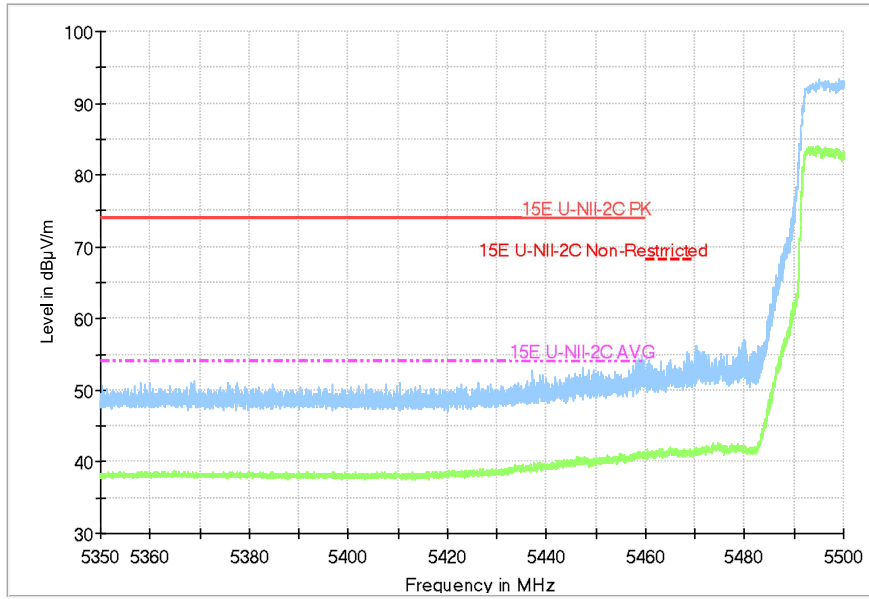
**Fig.72 Band Edges (802.11ac-HT80, 5210MHz)**

Full Spectrum



**Fig.73 Band Edges (802.11ac-HT80, 5290MHz)**

Full Spectrum



**Fig.74 Band Edges (802.11ac-HT80, 5530MHz)**

## A.6. Transmitter Spurious Emission

### Measurement Limit:

| Standard               | Limit       |
|------------------------|-------------|
| FCC 47 CFR Part 15.407 | -27 dBm/MHz |

The measurement is made according to KDB 789033

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

### Limit in restricted band:

| Frequency of emission (MHz) | Field strength(dBμV/m) | Measurement distance(m) |
|-----------------------------|------------------------|-------------------------|
| 30-88                       | 40.0                   | 3                       |
| 88-216                      | 43.5                   | 3                       |
| 216-960                     | 46.0                   | 3                       |
| Above 960                   | 54.0                   | 3                       |

Note: for frequency range below 960MHz, the limit in 15.209 is defined in 10m test distance. The limit used above is calculated from 10m to 3m

### Measurement Results:

**Conclusion: PASS**

### Note:

A "reference path loss" is established and the  $A_{Rpl}$  is the attenuation of "reference path loss", and including the cable loss(the gain of the preamplifier), the gain of receive antenna.

$P_{Mea}$  is the field strength recorded from the instrument.

The measurement results are obtained as described below:

Result= $P_{Mea}+A_{Rpl}= P_{Mea}+Cable Loss+Antenna Factor$

**Average**  
**802.11a**

| Frequency (MHz)           | Result (dBuV/m) | Cable Loss (dB) | Antenna Factor | PMea (dBuV/m) | Polarization | Limit (dBuV/m) | Margin (dBuV/m) |
|---------------------------|-----------------|-----------------|----------------|---------------|--------------|----------------|-----------------|
| <b>802.11a Channel 36</b> |                 |                 |                |               |              |                |                 |
| 17963.7                   | 44.7            | -25.5           | 46.7           | 23.5          | H            | 54             | 9.3             |
| 17978                     | 44.7            | -25.5           | 46.7           | 23.5          | H            | 54             | 9.3             |
| 17979.1                   | 44.7            | -25.5           | 46.7           | 23.5          | H            | 54             | 9.3             |
| 17983.5                   | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4             |
| 17987.9                   | 44.6            | -25.5           | 46.7           | 23.4          | V            | 54             | 9.4             |
| 5149.2                    | 45.8            | -17             | 33.7           | 29.1          | H            | 54             | 8.2             |
| <b>802.11a Channel 40</b> |                 |                 |                |               |              |                |                 |
| 17987.9                   | 44.8            | -25.5           | 46.7           | 23.6          | H            | 54             | 9.2             |
| 17968.1                   | 44.7            | -25.5           | 46.7           | 23.5          | H            | 54             | 9.3             |
| 17979.1                   | 44.7            | -25.5           | 46.7           | 23.5          | H            | 54             | 9.3             |
| 17993.4                   | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4             |
| 17958.2                   | 44.5            | -25.5           | 46.7           | 23.3          | V            | 54             | 9.5             |
| 17991.2                   | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| <b>802.11a Channel 48</b> |                 |                 |                |               |              |                |                 |
| 17976.9                   | 44.8            | -25.5           | 46.7           | 23.6          | H            | 54             | 9.2             |
| 17963.7                   | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4             |
| 17967                     | 44.5            | -25.5           | 46.7           | 23.3          | V            | 54             | 9.5             |
| 17978                     | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17980.2                   | 44.5            | -25.5           | 46.7           | 23.3          | V            | 54             | 9.5             |
| 17941.7                   | 44.4            | -25.5           | 46.7           | 23.2          | H            | 54             | 9.6             |
| <b>802.11a Channel 52</b> |                 |                 |                |               |              |                |                 |
| 17963.7                   | 44.7            | -25.5           | 46.7           | 23.5          | H            | 54             | 9.3             |
| 17987.9                   | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4             |
| 17970.3                   | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17973.6                   | 44.4            | -25.5           | 46.7           | 23.2          | H            | 54             | 9.6             |
| 17974.7                   | 44.4            | -25.5           | 46.7           | 23.2          | H            | 54             | 9.6             |
| 17985.7                   | 44.4            | -25.5           | 46.7           | 23.2          | H            | 54             | 9.6             |
| <b>802.11a Channel 56</b> |                 |                 |                |               |              |                |                 |
| 17963.7                   | 44.6            | -25.5           | 46.7           | 23.4          | V            | 54             | 9.4             |
| 17981.3                   | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4             |
| 17982.4                   | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4             |
| 17950.5                   | 44.5            | -25.5           | 46.7           | 23.3          | V            | 54             | 9.5             |
| 17953.8                   | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17979.1                   | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |

| Frequency (MHz)     | Result (dBuV/m) | Cable Loss (dB) | Antenna Factor | PMea (dBuV/m) | Polarization | Limit (dBuV/m) | Margin (dBuV/m) |
|---------------------|-----------------|-----------------|----------------|---------------|--------------|----------------|-----------------|
| 802.11a Channel 64  |                 |                 |                |               |              |                |                 |
| 17965.9             | 44.5            | -25.5           | 46.7           | 23.3          | V            | 54             | 9.5             |
| 17973.6             | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17979.1             | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17959.3             | 44.4            | -25.5           | 46.7           | 23.2          | H            | 54             | 9.6             |
| 17974.7             | 44.4            | -25.5           | 46.7           | 23.2          | H            | 54             | 9.6             |
| 5350.2              | 45.5            | -16.9           | 34             | 28.4          | H            | 54             | 8.5             |
| 802.11a Channel 100 |                 |                 |                |               |              |                |                 |
| 17958.2             | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4             |
| 17971.4             | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17949.4             | 44.4            | -25.5           | 46.7           | 23.2          | H            | 54             | 9.6             |
| 17990.1             | 44.4            | -25.5           | 46.7           | 23.2          | H            | 54             | 9.6             |
| 17961.5             | 44.3            | -25.5           | 46.7           | 23.1          | H            | 54             | 9.7             |
| 5450.9              | 44.8            | -16.8           | 34.2           | 27.4          | H            | 54             | 9.2             |
| 802.11a Channel 120 |                 |                 |                |               |              |                |                 |
| 17979.1             | 44.9            | -25.5           | 46.7           | 23.7          | H            | 54             | 9.1             |
| 17963.7             | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4             |
| 17957.1             | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17962.6             | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17986.8             | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17971.4             | 44.4            | -25.5           | 46.7           | 23.2          | H            | 54             | 9.6             |
| 802.11a Channel 140 |                 |                 |                |               |              |                |                 |
| 17997.8             | 44.4            | -25.5           | 46.7           | 23.2          | H            | 54             | 9.6             |
| 17958.2             | 44.3            | -25.5           | 46.7           | 23.1          | H            | 54             | 9.7             |
| 17960.4             | 44.3            | -25.5           | 46.7           | 23.1          | H            | 54             | 9.7             |
| 17971.4             | 44.3            | -25.5           | 46.7           | 23.1          | H            | 54             | 9.7             |
| 17974.7             | 44.3            | -25.5           | 46.7           | 23.1          | V            | 54             | 9.7             |
| 5725                | 52.8            | -16.3           | 34.3           | 34.8          | H            | 54             | 1.2             |
| 802.11a Channel 144 |                 |                 |                |               |              |                |                 |
| 17997.8             | 44.3            | -25.5           | 46.7           | 23.1          | H            | 54             | 9.7             |
| 17958.2             | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4             |
| 17960.4             | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4             |
| 17971.4             | 44.4            | -25.5           | 46.7           | 23.2          | H            | 54             | 9.6             |
| 17974.7             | 44.9            | -25.5           | 46.7           | 23.7          | V            | 54             | 9.1             |
| 17974.7             | 44.9            | -25.5           | 46.7           | 23.7          | V            | 54             | 9.1             |

**802.11n-HT20**

| Frequency (MHz)    | Result (dBuV/m) | Cable Loss (dB) | Antenna Factor | PMea (dBuV/m) | Polarization | Limit (dBuV/m) | Margin (dBuV/m) |
|--------------------|-----------------|-----------------|----------------|---------------|--------------|----------------|-----------------|
| 802.11n Channel 36 |                 |                 |                |               |              |                |                 |
| 17980.2            | 44.8            | -25.5           | 46.7           | 23.6          | H            | 54             | 9.2             |
| 17990.1            | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4             |
| 17972.5            | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17974.7            | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17976.9            | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 5143.8             | 43.6            | -17             | 33.7           | 26.9          | H            | 54             | 10.4            |
| 802.11n Channel 40 |                 |                 |                |               |              |                |                 |
| 17951.6            | 44.6            | -25.5           | 46.7           | 23.4          | V            | 54             | 9.4             |
| 17949.4            | 44.5            | -25.5           | 46.7           | 23.3          | V            | 54             | 9.5             |
| 17964.8            | 44.5            | -25.5           | 46.7           | 23.3          | V            | 54             | 9.5             |
| 17989              | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17995.6            | 44.5            | -25.5           | 46.7           | 23.3          | V            | 54             | 9.5             |
| 17974.7            | 44.4            | -25.5           | 46.7           | 23.2          | H            | 54             | 9.6             |
| 802.11n Channel 48 |                 |                 |                |               |              |                |                 |
| 17969.2            | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4             |
| 17941.7            | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17964.8            | 44.5            | -25.5           | 46.7           | 23.3          | V            | 54             | 9.5             |
| 17970.3            | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17979.1            | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17985.7            | 44.5            | -25.5           | 46.7           | 23.3          | V            | 54             | 9.5             |
| 802.11n Channel 52 |                 |                 |                |               |              |                |                 |
| 17967              | 44.7            | -25.5           | 46.7           | 23.5          | H            | 54             | 9.3             |
| 17974.7            | 44.7            | -25.5           | 46.7           | 23.5          | H            | 54             | 9.3             |
| 17981.3            | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4             |
| 17968.1            | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17993.4            | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17946.1            | 44.4            | -25.5           | 46.7           | 23.2          | H            | 54             | 9.6             |
| 802.11n Channel 56 |                 |                 |                |               |              |                |                 |
| 17995.6            | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4             |
| 17965.9            | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17967              | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17972.5            | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17976.9            | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17981.3            | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |

| Frequency (MHz)     | Result (dBUV/m) | Cable Loss (dB) | Antenna Factor | PMea (dBUV/m) | Polarization | Limit (dBUV/m) | Margin (dBUV/m) |
|---------------------|-----------------|-----------------|----------------|---------------|--------------|----------------|-----------------|
| 802.11n Channel 64  |                 |                 |                |               |              |                |                 |
| 17951.6             | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4             |
| 17980.2             | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4             |
| 17953.8             | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17973.6             | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17993.4             | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 5357.1              | 44.4            | -16.9           | 34             | 27.3          | H            | 54             | 9.6             |
| 802.11n Channel 100 |                 |                 |                |               |              |                |                 |
| 17982.4             | 44.7            | -25.5           | 46.7           | 23.5          | V            | 54             | 9.3             |
| 17994.5             | 44.7            | -25.5           | 46.7           | 23.5          | H            | 54             | 9.3             |
| 17974.7             | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17981.3             | 44.5            | -25.5           | 46.7           | 23.3          | V            | 54             | 9.5             |
| 17991.2             | 44.5            | -25.5           | 46.7           | 23.3          | V            | 54             | 9.5             |
| 5455.1              | 44.2            | -16.8           | 34.2           | 26.8          | H            | 54             | 9.8             |
| 802.11n Channel 120 |                 |                 |                |               |              |                |                 |
| 17979.1             | 44.8            | -25.5           | 46.7           | 23.6          | V            | 54             | 9.2             |
| 17980.2             | 44.7            | -25.5           | 46.7           | 23.5          | V            | 54             | 9.3             |
| 17950.5             | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4             |
| 17965.9             | 44.6            | -25.5           | 46.7           | 23.4          | V            | 54             | 9.4             |
| 17968.1             | 44.6            | -25.5           | 46.7           | 23.4          | V            | 54             | 9.4             |
| 17970.3             | 44.6            | -25.5           | 46.7           | 23.4          | V            | 54             | 9.4             |
| 802.11n Channel 140 |                 |                 |                |               |              |                |                 |
| 17992.3             | 44.7            | -25.5           | 46.7           | 23.5          | H            | 54             | 9.3             |
| 17959.3             | 44.6            | -25.5           | 46.7           | 23.4          | V            | 54             | 9.4             |
| 17960.4             | 44.6            | -25.5           | 46.7           | 23.4          | V            | 54             | 9.4             |
| 17974.7             | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4             |
| 17976.9             | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4             |
| 5726.8              | 45.1            | -16.3           | 34.3           | 27.1          | H            | 54             | 8.9             |
| 802.11n Channel 144 |                 |                 |                |               |              |                |                 |
| 17966.1             | 43.7            | -25.5           | 46.7           | 22.5          | H            | 54             | 10.3            |
| 17947.3             | 44.3            | -25.5           | 46.7           | 23.1          | H            | 54             | 9.7             |
| 17965.2             | 43.6            | -25.5           | 46.7           | 22.4          | H            | 54             | 10.4            |
| 17969.8             | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17981.4             | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4             |
| 17982.4             | 44.8            | -25.5           | 46.7           | 23.6          | H            | 54             | 9.2             |



**802.11ac-HT20**

| Frequency (MHz)     | Result (dBuV/m) | Cable Loss (dB) | Antenna Factor | PMea (dBuV/m) | Polarization | Limit (dBuV/m) | Margin (dBuV/m) |
|---------------------|-----------------|-----------------|----------------|---------------|--------------|----------------|-----------------|
| 802.11ac Channel 36 |                 |                 |                |               |              |                |                 |
| 17957.1             | 44.7            | -25.5           | 46.7           | 23.5          | H            | 54             | 9.3             |
| 17973.6             | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4             |
| 17990.1             | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4             |
| 17992.3             | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4             |
| 17994.5             | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4             |
| 5143.4              | 43.7            | -17             | 33.7           | 27            | H            | 54             | 10.3            |
| 802.11ac Channel 40 |                 |                 |                |               |              |                |                 |
| 17953.8             | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17961.5             | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17985.7             | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17949.4             | 44.4            | -25.5           | 46.7           | 23.2          | H            | 54             | 9.6             |
| 17964.8             | 44.4            | -25.5           | 46.7           | 23.2          | H            | 54             | 9.6             |
| 17968.1             | 44.4            | -25.5           | 46.7           | 23.2          | V            | 54             | 9.6             |
| 802.11ac Channel 48 |                 |                 |                |               |              |                |                 |
| 17970.3             | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4             |
| 17971.4             | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4             |
| 17949.4             | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17990.1             | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17962.6             | 44.4            | -25.5           | 46.7           | 23.2          | V            | 54             | 9.6             |
| 17975.8             | 44.4            | -25.5           | 46.7           | 23.2          | H            | 54             | 9.6             |
| 802.11ac Channel 52 |                 |                 |                |               |              |                |                 |
| 17983.5             | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4             |
| 17967               | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17950.5             | 44.4            | -25.5           | 46.7           | 23.2          | H            | 54             | 9.6             |
| 17972.5             | 44.4            | -25.5           | 46.7           | 23.2          | H            | 54             | 9.6             |
| 17975.8             | 44.4            | -25.5           | 46.7           | 23.2          | H            | 54             | 9.6             |
| 17979.1             | 44.4            | -25.5           | 46.7           | 23.2          | H            | 54             | 9.6             |
| 802.11ac Channel 56 |                 |                 |                |               |              |                |                 |
| 17975.8             | 44.8            | -25.5           | 46.7           | 23.6          | H            | 54             | 9.2             |
| 17943.9             | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17959.3             | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17980.2             | 44.4            | -25.5           | 46.7           | 23.2          | H            | 54             | 9.6             |
| 17983.5             | 44.4            | -25.5           | 46.7           | 23.2          | H            | 54             | 9.6             |
| 17954.9             | 44.3            | -25.5           | 46.7           | 23.1          | H            | 54             | 9.7             |

| Frequency (MHz)      | Result (dBuV/m) | Cable Loss (dB) | Antenna Factor | PMea (dBuV/m) | Polarization | Limit (dBuV/m) | Margin (dBuV/m) |
|----------------------|-----------------|-----------------|----------------|---------------|--------------|----------------|-----------------|
| 802.11ac Channel 64  |                 |                 |                |               |              |                |                 |
| 17984.6              | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4             |
| 17981.3              | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17970.3              | 44.4            | -25.5           | 46.7           | 23.2          | H            | 54             | 9.6             |
| 17980.2              | 44.4            | -25.5           | 46.7           | 23.2          | H            | 54             | 9.6             |
| 17986.8              | 44.4            | -25.5           | 46.7           | 23.2          | H            | 54             | 9.6             |
| 5358.4               | 44.4            | -16.9           | 34             | 27.3          | H            | 54             | 9.6             |
| 802.11ac Channel 100 |                 |                 |                |               |              |                |                 |
| 17949.4              | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4             |
| 17979.1              | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4             |
| 17968.1              | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17973.6              | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17959.3              | 44.4            | -25.5           | 46.7           | 23.2          | H            | 54             | 9.6             |
| 5454.2               | 44.3            | -16.8           | 34.2           | 26.9          | H            | 54             | 9.7             |
| 802.11ac Channel 120 |                 |                 |                |               |              |                |                 |
| 17963.7              | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17967                | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17980.2              | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17981.3              | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17946.1              | 44.4            | -25.5           | 46.7           | 23.2          | H            | 54             | 9.6             |
| 17959.3              | 44.4            | -25.5           | 46.7           | 23.2          | H            | 54             | 9.6             |
| 802.11ac Channel 140 |                 |                 |                |               |              |                |                 |
| 17965.9              | 44.7            | -25.5           | 46.7           | 23.5          | H            | 54             | 9.3             |
| 17948.3              | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4             |
| 17964.8              | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4             |
| 17973.6              | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4             |
| 17982.4              | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4             |
| 5743                 | 45.1            | -16.3           | 34.3           | 27.1          | H            | 54             | 8.9             |
| 802.11ac Channel 144 |                 |                 |                |               |              |                |                 |
| 17966.1              | 43.7            | -25.5           | 46.7           | 22.5          | H            | 54             | 10.3            |
| 17947.3              | 44.3            | -25.5           | 46.7           | 23.1          | H            | 54             | 9.7             |
| 17965.2              | 43.6            | -25.5           | 46.7           | 22.4          | H            | 54             | 10.4            |
| 17969.8              | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17981.4              | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4             |
| 17982.4              | 44.8            | -25.5           | 46.7           | 23.6          | H            | 54             | 9.2             |

**802.11n-HT40**

| Frequency (MHz)          | Result (dBuV/m) | Cable Loss (dB) | Antenna Factor | PMea (dBuV/m) | Polarization | Limit (dBuV/m) | Magin (dBuV/m) |
|--------------------------|-----------------|-----------------|----------------|---------------|--------------|----------------|----------------|
| 802.11n 40MHz Channel38  |                 |                 |                |               |              |                |                |
| 17969.2                  | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5            |
| 17972.5                  | 44.4            | -25.5           | 46.7           | 23.2          | V            | 54             | 9.6            |
| 17979.1                  | 44.4            | -25.5           | 46.7           | 23.2          | V            | 54             | 9.6            |
| 17958.2                  | 44.3            | -25.5           | 46.7           | 23.1          | H            | 54             | 9.7            |
| 17960.4                  | 44.3            | -25.5           | 46.7           | 23.1          | H            | 54             | 9.7            |
| 5147.6                   | 39.7            | -17             | 33.7           | 23            | H            | 54             | 14.3           |
| 802.11n 40MHz Channel46  |                 |                 |                |               |              |                |                |
| 17996.7                  | 44.8            | -25.5           | 46.7           | 23.6          | H            | 54             | 9.2            |
| 17976.9                  | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4            |
| 17981.3                  | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4            |
| 17993.4                  | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4            |
| 17947.2                  | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5            |
| 17987.9                  | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5            |
| 802.11n 40MHz Channel54  |                 |                 |                |               |              |                |                |
| 17968.1                  | 56.3            | -25.5           | 46.7           | 35.1          | H            | 74             | 17.7           |
| 17989                    | 56.2            | -25.5           | 46.7           | 35            | H            | 74             | 17.8           |
| 17980.2                  | 55.8            | -25.5           | 46.7           | 34.6          | V            | 74             | 18.2           |
| 17982.4                  | 55.8            | -25.5           | 46.7           | 34.6          | H            | 74             | 18.2           |
| 17987.9                  | 55.8            | -25.5           | 46.7           | 34.6          | H            | 74             | 18.2           |
| 17639.2                  | 55.4            | -25.7           | 46             | 35.2          | V            | 74             | 18.6           |
| 802.11n 40MHz Channel62  |                 |                 |                |               |              |                |                |
| 17976.9                  | 56.6            | -25.5           | 46.7           | 35.4          | H            | 74             | 17.4           |
| 17951.6                  | 56.2            | -25.5           | 46.7           | 35            | H            | 74             | 17.8           |
| 17947.2                  | 56              | -25.5           | 46.7           | 34.8          | H            | 74             | 18             |
| 17945                    | 55.9            | -25.5           | 46.7           | 34.7          | H            | 74             | 18.1           |
| 17991.2                  | 55.9            | -25.5           | 46.7           | 34.7          | H            | 74             | 18.1           |
| 5353.2                   | 52.9            | -16.9           | 34             | 35.8          | H            | 74             | 21.1           |
| 802.11n 40MHz Channel102 |                 |                 |                |               |              |                |                |
| 17991.2                  | 44.9            | -25.5           | 46.7           | 23.7          | V            | 54             | 9.1            |
| 17975.8                  | 44.7            | -25.5           | 46.7           | 23.5          | V            | 54             | 9.3            |
| 17956                    | 44.6            | -25.5           | 46.7           | 23.4          | V            | 54             | 9.4            |
| 17961.5                  | 44.6            | -25.5           | 46.7           | 23.4          | V            | 54             | 9.4            |
| 17978                    | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4            |
| 5458.8                   | 39.8            | -16.8           | 34.2           | 22.4          | H            | 54             | 14.2           |

| Frequency (MHz)          | Result (dBuV/m) | Cable Loss (dB) | Antenna Factor | PMea (dBuV/m) | Polarization | Limit (dBuV/m) | Magin (dBuV/m) |
|--------------------------|-----------------|-----------------|----------------|---------------|--------------|----------------|----------------|
| 802.11n 40MHz Channel108 |                 |                 |                |               |              |                |                |
| 17978                    | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4            |
| 17990.1                  | 44.6            | -25.5           | 46.7           | 23.4          | V            | 54             | 9.4            |
| 17992.3                  | 44.6            | -25.5           | 46.7           | 23.4          | V            | 54             | 9.4            |
| 17952.7                  | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5            |
| 17965.9                  | 44.5            | -25.5           | 46.7           | 23.3          | V            | 54             | 9.5            |
| 17973.6                  | 44.5            | -25.5           | 46.7           | 23.3          | V            | 54             | 9.5            |
| 802.11n 40MHz Channel134 |                 |                 |                |               |              |                |                |
| 17957.1                  | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4            |
| 17970.3                  | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4            |
| 17973.6                  | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4            |
| 17974.7                  | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4            |
| 17993.4                  | 44.6            | -25.5           | 46.7           | 23.4          | V            | 54             | 9.4            |
| 5732.3                   | 40.2            | -16.3           | 34.3           | 22.2          | V            | 54             | 13.8           |
| 802.11n 40MHz Channel142 |                 |                 |                |               |              |                |                |
| 17951.1                  | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4            |
| 17972.3                  | 44.3            | -25.5           | 46.7           | 23.1          | H            | 54             | 9.7            |
| 17978.6                  | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4            |
| 17944.7                  | 44.4            | -25.5           | 46.7           | 23.2          | H            | 54             | 9.6            |
| 17983.4                  | 44.6            | -25.5           | 46.7           | 23.4          | V            | 54             | 9.4            |
| 17985.9                  | 44.3            | -25.5           | 46.7           | 23.1          | V            | 54             | 9.7            |

**802.11ac-HT40**

| Frequency (MHz)            | Result (dBuV/m) | Cable Loss (dB) | Antenna Factor | PMea (dBuV/m) | Polarization | Limit (dBuV/m) | Margin (dBuV/m) |
|----------------------------|-----------------|-----------------|----------------|---------------|--------------|----------------|-----------------|
| 802.11ac 40M Channel:CH38  |                 |                 |                |               |              |                |                 |
| 17970.3                    | 44.8            | -25.5           | 46.7           | 23.6          | H            | 54             | 9.2             |
| 17975.8                    | 44.8            | -25.5           | 46.7           | 23.6          | H            | 54             | 9.2             |
| 17965.9                    | 44.7            | -25.5           | 46.7           | 23.5          | H            | 54             | 9.3             |
| 17972.5                    | 44.7            | -25.5           | 46.7           | 23.5          | H            | 54             | 9.3             |
| 17985.7                    | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4             |
| 5149.9                     | 39.8            | -17             | 33.7           | 23.1          | H            | 54             | 14.2            |
| 802.11ac 40M Channel:CH46  |                 |                 |                |               |              |                |                 |
| 17969.2                    | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4             |
| 17950.5                    | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17989                      | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17978                      | 44.4            | -25.5           | 46.7           | 23.2          | H            | 54             | 9.6             |
| 17980.2                    | 44.4            | -25.5           | 46.7           | 23.2          | H            | 54             | 9.6             |
| 17985.7                    | 44.4            | -25.5           | 46.7           | 23.2          | H            | 54             | 9.6             |
| 802.11ac 40M Channel:CH54  |                 |                 |                |               |              |                |                 |
| 17957.1                    | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4             |
| 17987.9                    | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17971.4                    | 44.4            | -25.5           | 46.7           | 23.2          | H            | 54             | 9.6             |
| 17974.7                    | 44.4            | -25.5           | 46.7           | 23.2          | V            | 54             | 9.6             |
| 17976.9                    | 44.4            | -25.5           | 46.7           | 23.2          | H            | 54             | 9.6             |
| 17981.3                    | 44.4            | -25.5           | 46.7           | 23.2          | H            | 54             | 9.6             |
| 802.11ac 40M Channel:CH62  |                 |                 |                |               |              |                |                 |
| 17964.8                    | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17967                      | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17995.6                    | 44.4            | -25.5           | 46.7           | 23.2          | H            | 54             | 9.6             |
| 17938.4                    | 44.3            | -25.5           | 46.7           | 23.1          | H            | 54             | 9.7             |
| 17951.6                    | 44.3            | -25.5           | 46.7           | 23.1          | H            | 54             | 9.7             |
| 5350.2                     | 40.9            | -16.9           | 34             | 23.8          | H            | 54             | 13.1            |
| 802.11ac 40M Channel:CH102 |                 |                 |                |               |              |                |                 |
| 17983.5                    | 44.8            | -25.5           | 46.7           | 23.6          | H            | 54             | 9.2             |
| 17947.2                    | 44.7            | -25.5           | 46.7           | 23.5          | H            | 54             | 9.3             |
| 17964.8                    | 44.5            | -25.5           | 46.7           | 23.3          | V            | 54             | 9.5             |
| 17974.7                    | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5             |
| 17945                      | 44.4            | -25.5           | 46.7           | 23.2          | H            | 54             | 9.6             |
| 5455.5                     | 39.6            | -16.8           | 34.2           | 22.2          | H            | 54             | 14.4            |



| Frequency (MHz)            | Result (dBuV/m) | Cable Loss (dB) | Antenna Factor | PMea (dBuV/m) | Polarization | Limit (dBuV/m) | Magin (dBuV/m) |
|----------------------------|-----------------|-----------------|----------------|---------------|--------------|----------------|----------------|
| 802.11ac 40M Channel:CH118 |                 |                 |                |               |              |                |                |
| 17996.7                    | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4            |
| 17943.9                    | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5            |
| 17953.8                    | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5            |
| 17954.9                    | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5            |
| 17959.3                    | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5            |
| 17965.9                    | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5            |
| 802.11ac 40M Channel:CH134 |                 |                 |                |               |              |                |                |
| 17954.9                    | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5            |
| 17959.3                    | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5            |
| 17989                      | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5            |
| 17942.8                    | 44.4            | -25.5           | 46.7           | 23.2          | H            | 54             | 9.6            |
| 17950.5                    | 44.4            | -25.5           | 46.7           | 23.2          | H            | 54             | 9.6            |
| 5740.7                     | 40.3            | -16.3           | 34.3           | 22.3          | V            | 54             | 13.7           |
| 802.11ac 40M Channel:CH142 |                 |                 |                |               |              |                |                |
| 17951.9                    | 44.4            | -25.5           | 46.7           | 23.2          | H            | 54             | 9.6            |
| 17957.3                    | 44.3            | -25.5           | 46.7           | 23.1          | V            | 54             | 9.7            |
| 17989.3                    | 44.3            | -25.5           | 46.7           | 23.1          | V            | 54             | 9.7            |
| 17941.8                    | 44.9            | -25.5           | 46.7           | 23.7          | V            | 54             | 9.1            |
| 17952.5                    | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5            |

**802.11ac-HT80**

| Frequency (MHz)            | Result (dBuV/m) | Cable Loss (dB) | Antenna Factor | PMea (dBuV/m) | Polarization | Limit (dBuV/m) | Magin (dBuV/m) |
|----------------------------|-----------------|-----------------|----------------|---------------|--------------|----------------|----------------|
| 802.11ac 80M Channel:CH42  |                 |                 |                |               |              |                |                |
| 17958.2                    | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4            |
| 17983.5                    | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4            |
| 17950.5                    | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5            |
| 17953.8                    | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5            |
| 17985.7                    | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5            |
| 5146                       | 40.1            | -17             | 33.7           | 23.4          | H            | 54             | 13.9           |
| 802.11ac 80M Channel:CH58  |                 |                 |                |               |              |                |                |
| 17958.2                    | 44.8            | -25.5           | 46.7           | 23.6          | H            | 54             | 9.2            |
| 17974.7                    | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4            |
| 17984.6                    | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4            |
| 17949.4                    | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5            |
| 17962.6                    | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5            |
| 5352.8                     | 40.9            | -16.9           | 34             | 23.8          | H            | 54             | 13.1           |
| 802.11ac 80M Channel:CH106 |                 |                 |                |               |              |                |                |
| 17986.8                    | 44.7            | -25.5           | 46.7           | 23.5          | H            | 54             | 9.3            |
| 17954.9                    | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4            |
| 17963.7                    | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5            |
| 17967                      | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5            |
| 17972.5                    | 44.5            | -25.5           | 46.7           | 23.3          | H            | 54             | 9.5            |
| 5458.5                     | 41.4            | -16.8           | 34.2           | 24            | H            | 54             | 12.6           |
| 802.11ac 80M Channel:CH138 |                 |                 |                |               |              |                |                |
| 17987.8                    | 44.3            | -25.5           | 46.7           | 23.1          | H            | 54             | 9.7            |
| 17955.7                    | 44.4            | -25.5           | 46.7           | 23.2          | H            | 54             | 9.6            |
| 17961.9                    | 44.4            | -25.5           | 46.7           | 23.2          | H            | 54             | 9.6            |
| 17967.5                    | 44.6            | -25.5           | 46.7           | 23.4          | H            | 54             | 9.4            |
| 17971.4                    | 44.4            | -25.5           | 46.7           | 23.2          | H            | 54             | 9.6            |
| 17971.2                    | 44.3            | -25.5           | 46.7           | 23.1          | H            | 54             | 9.7            |

**Peak**
**802.11a**

| Frequency (MHz)      | Result (dBuV/m) | Cable Loss (dB) | Antenna Factor | PMea (dBuV/m) | Polarization | Limit (dBuV/m) | Margin (dBuV/m) |
|----------------------|-----------------|-----------------|----------------|---------------|--------------|----------------|-----------------|
| 802.11a Channel:CH36 |                 |                 |                |               |              |                |                 |
| 17989                | 56.2            | -25.5           | 46.7           | 35            | H            | 74             | 17.8            |
| 17961.5              | 56.1            | -25.5           | 46.7           | 34.9          | H            | 74             | 17.9            |
| 17965.9              | 56.1            | -25.5           | 46.7           | 34.9          | H            | 74             | 17.9            |
| 17995.6              | 56.1            | -25.5           | 46.7           | 34.9          | V            | 74             | 17.9            |
| 17978                | 56              | -25.5           | 46.7           | 34.8          | H            | 74             | 18              |
| 5143.6               | 58.4            | -17             | 33.7           | 41.7          | H            | 74             | 15.6            |
| 802.11a Channel:CH40 |                 |                 |                |               |              |                |                 |
| 17937.3              | 56.6            | -25.5           | 46.7           | 35.4          | H            | 74             | 17.4            |
| 17981.3              | 56.1            | -25.5           | 46.7           | 34.9          | H            | 74             | 17.9            |
| 17949.4              | 55.9            | -25.5           | 46.7           | 34.7          | H            | 74             | 18.1            |
| 17952.7              | 55.9            | -25.5           | 46.7           | 34.7          | H            | 74             | 18.1            |
| 17978                | 55.9            | -25.5           | 46.7           | 34.7          | V            | 74             | 18.1            |
| 17989                | 55.9            | -25.5           | 46.7           | 34.7          | H            | 74             | 18.1            |
| 802.11a Channel:CH48 |                 |                 |                |               |              |                |                 |
| 17967                | 56.2            | -25.5           | 46.7           | 35            | V            | 74             | 17.8            |
| 17961.5              | 55.9            | -25.5           | 46.7           | 34.7          | V            | 74             | 18.1            |
| 17979.1              | 55.9            | -25.5           | 46.7           | 34.7          | V            | 74             | 18.1            |
| 17919.7              | 55.8            | -25.5           | 46.7           | 34.6          | H            | 74             | 18.2            |
| 17940.6              | 55.6            | -25.5           | 46.7           | 34.4          | V            | 74             | 18.4            |
| 17949.4              | 55.6            | -25.5           | 46.7           | 34.4          | H            | 74             | 18.4            |
| 802.11a Channel:CH52 |                 |                 |                |               |              |                |                 |
| 17995.6              | 56.7            | -25.5           | 46.7           | 35.5          | H            | 74             | 17.3            |
| 17948.3              | 56.4            | -25.5           | 46.7           | 35.2          | H            | 74             | 17.6            |
| 17974.7              | 56.3            | -25.5           | 46.7           | 35.1          | H            | 74             | 17.7            |
| 17996.7              | 56              | -25.5           | 46.7           | 34.8          | V            | 74             | 18              |
| 17857                | 55.9            | -25.5           | 46.7           | 34.7          | V            | 74             | 18.1            |
| 17940.6              | 55.9            | -25.5           | 46.7           | 34.7          | H            | 74             | 18.1            |
| 802.11a Channel:CH56 |                 |                 |                |               |              |                |                 |
| 17875.7              | 56.1            | -25.5           | 46.7           | 34.9          | V            | 74             | 17.9            |
| 17939.5              | 55.7            | -25.5           | 46.7           | 34.5          | H            | 74             | 18.3            |
| 17969.2              | 55.7            | -25.5           | 46.7           | 34.5          | V            | 74             | 18.3            |
| 17984.6              | 55.7            | -25.5           | 46.7           | 34.5          | V            | 74             | 18.3            |
| 17954.9              | 55.5            | -25.5           | 46.7           | 34.3          | H            | 74             | 18.5            |
| 17985.7              | 55.5            | -25.5           | 46.7           | 34.3          | H            | 74             | 18.5            |



| Frequency (MHz)       | Result (dBuV/m) | Cable Loss (dB) | Antenna Factor | PMea     | Polarization | Limit (dBuV/m) | Margin (dBuV/m) |
|-----------------------|-----------------|-----------------|----------------|----------|--------------|----------------|-----------------|
|                       |                 |                 |                | (dBuV/m) |              |                |                 |
| 802.11a Channel:CH64  |                 |                 |                |          |              |                |                 |
| 17941.7               | 56.5            | -25.5           | 46.7           | 35.3     | H            | 74             | 17.5            |
| 17957.1               | 56              | -25.5           | 46.7           | 34.8     | H            | 74             | 18              |
| 17978                 | 55.7            | -25.5           | 46.7           | 34.5     | H            | 74             | 18.3            |
| 17871.3               | 55.6            | -25.5           | 46.7           | 34.4     | V            | 74             | 18.4            |
| 17984.6               | 55.5            | -25.5           | 46.7           | 34.3     | V            | 74             | 18.5            |
| 5362                  | 57.7            | -16.9           | 34             | 40.6     | V            | 74             | 16.3            |
| 802.11a Channel:CH100 |                 |                 |                |          |              |                |                 |
| 17942.8               | 56.4            | -25.5           | 46.7           | 35.2     | H            | 74             | 17.6            |
| 17975.8               | 56.4            | -25.5           | 46.7           | 35.2     | H            | 74             | 17.6            |
| 17916.4               | 55.8            | -25.5           | 46.7           | 34.6     | V            | 74             | 18.2            |
| 17956                 | 55.8            | -25.5           | 46.7           | 34.6     | H            | 74             | 18.2            |
| 17989                 | 55.8            | -25.5           | 46.7           | 34.6     | V            | 74             | 18.2            |
| 5456.9                | 57.6            | -16.8           | 34.2           | 40.2     | H            | 74             | 16.4            |
| 802.11a Channel:CH120 |                 |                 |                |          |              |                |                 |
| 17978                 | 56.4            | -25.5           | 46.7           | 35.2     | V            | 74             | 17.6            |
| 17951.6               | 56.2            | -25.5           | 46.7           | 35       | H            | 74             | 17.8            |
| 17945                 | 56.1            | -25.5           | 46.7           | 34.9     | V            | 74             | 17.9            |
| 17986.8               | 56.1            | -25.5           | 46.7           | 34.9     | H            | 74             | 17.9            |
| 17962.6               | 56              | -25.5           | 46.7           | 34.8     | H            | 74             | 18              |
| 17895.5               | 55.9            | -25.5           | 46.7           | 34.7     | H            | 74             | 18.1            |
| 802.11a Channel:CH140 |                 |                 |                |          |              |                |                 |
| 17969.2               | 56.4            | -25.5           | 46.7           | 35.2     | H            | 74             | 17.6            |
| 17877.9               | 55.8            | -25.5           | 46.7           | 34.6     | V            | 74             | 18.2            |
| 17995.6               | 55.7            | -25.5           | 46.7           | 34.5     | H            | 74             | 18.3            |
| 17961.5               | 55.6            | -25.5           | 46.7           | 34.4     | H            | 74             | 18.4            |
| 17950.5               | 55.5            | -25.5           | 46.7           | 34.3     | H            | 74             | 18.5            |
| 5725                  | 65.9            | -16.3           | 34.3           | 47.9     | H            | 74             | 8.1             |
| 802.11a Channel:CH144 |                 |                 |                |          |              |                |                 |
| 17969.2               | 54.4            | -25.5           | 46.7           | 33.2     | H            | 74             | 19.6            |
| 17877.9               | 55.8            | -25.5           | 46.7           | 34.6     | V            | 74             | 18.2            |
| 17995.6               | 55.7            | -25.5           | 46.7           | 34.5     | V            | 74             | 18.3            |
| 17961.5               | 55.6            | -25.5           | 46.7           | 34.4     | H            | 74             | 18.4            |
| 17950.5               | 55.5            | -25.5           | 46.7           | 34.3     | V            | 74             | 18.5            |
| 17950.5               | 55.5            | -25.5           | 46.7           | 34.3     | V            | 74             | 18.5            |

**802.11n-HT20**

| Frequency (MHz)             | Result (dBuV/m) | Cable Loss (dB) | Antenna Factor | PMea (dBuV/m) | Polarization | Limit (dBuV/m) | Margin (dBuV/m) |
|-----------------------------|-----------------|-----------------|----------------|---------------|--------------|----------------|-----------------|
| <b>802.11n Channel:CH36</b> |                 |                 |                |               |              |                |                 |
| 17924.1                     | 56.1            | -25.5           | 46.7           | 34.9          | H            | 74             | 17.9            |
| 17986.8                     | 55.9            | -25.5           | 46.7           | 34.7          | H            | 74             | 18.1            |
| 17993.4                     | 55.9            | -25.5           | 46.7           | 34.7          | V            | 74             | 18.1            |
| 17949.4                     | 55.8            | -25.5           | 46.7           | 34.6          | H            | 74             | 18.2            |
| 17903.2                     | 55.7            | -25.5           | 46.7           | 34.5          | V            | 74             | 18.3            |
| 5149.6                      | 55.8            | -17             | 33.7           | 39.1          | H            | 74             | 18.2            |
| <b>802.11n Channel:CH40</b> |                 |                 |                |               |              |                |                 |
| 17949.4                     | 56.5            | -25.5           | 46.7           | 35.3          | V            | 74             | 17.5            |
| 17992.3                     | 56.5            | -25.5           | 46.7           | 35.3          | V            | 74             | 17.5            |
| 17995.6                     | 55.9            | -25.5           | 46.7           | 34.7          | V            | 74             | 18.1            |
| 17973.6                     | 55.8            | -25.5           | 46.7           | 34.6          | H            | 74             | 18.2            |
| 17940.6                     | 55.7            | -25.5           | 46.7           | 34.5          | V            | 74             | 18.3            |
| 17942.8                     | 55.7            | -25.5           | 46.7           | 34.5          | V            | 74             | 18.3            |
| <b>802.11n Channel:CH48</b> |                 |                 |                |               |              |                |                 |
| 17993.4                     | 56.4            | -25.5           | 46.7           | 35.2          | H            | 74             | 17.6            |
| 17962.6                     | 56.2            | -25.5           | 46.7           | 35            | V            | 74             | 17.8            |
| 17945                       | 56              | -25.5           | 46.7           | 34.8          | H            | 74             | 18              |
| 17954.9                     | 56              | -25.5           | 46.7           | 34.8          | V            | 74             | 18              |
| 17963.7                     | 56              | -25.5           | 46.7           | 34.8          | V            | 74             | 18              |
| 17965.9                     | 56              | -25.5           | 46.7           | 34.8          | V            | 74             | 18              |
| <b>802.11n Channel:CH52</b> |                 |                 |                |               |              |                |                 |
| 17971.4                     | 56.4            | -25.5           | 46.7           | 35.2          | H            | 74             | 17.6            |
| 17976.9                     | 56.4            | -25.5           | 46.7           | 35.2          | H            | 74             | 17.6            |
| 17956                       | 55.9            | -25.5           | 46.7           | 34.7          | V            | 74             | 18.1            |
| 17980.2                     | 55.8            | -25.5           | 46.7           | 34.6          | H            | 74             | 18.2            |
| 17975.8                     | 55.7            | -25.5           | 46.7           | 34.5          | H            | 74             | 18.3            |
| 17964.8                     | 55.6            | -25.5           | 46.7           | 34.4          | H            | 74             | 18.4            |
| <b>802.11n Channel:CH56</b> |                 |                 |                |               |              |                |                 |
| 17936.2                     | 56.2            | -25.5           | 46.7           | 35            | H            | 74             | 17.8            |
| 17979.1                     | 56.1            | -25.5           | 46.7           | 34.9          | V            | 74             | 17.9            |
| 17987.9                     | 56              | -25.5           | 46.7           | 34.8          | H            | 74             | 18              |
| 17882.3                     | 55.8            | -25.5           | 46.7           | 34.6          | H            | 74             | 18.2            |
| 17934                       | 55.8            | -25.5           | 46.7           | 34.6          | H            | 74             | 18.2            |
| 17969.2                     | 55.8            | -25.5           | 46.7           | 34.6          | H            | 74             | 18.2            |

| Frequency (MHz)       | Result (dBuV/m) | Cable Loss (dB) | Antenna Factor | PMea (dBuV/m) | Polarization | Limit (dBuV/m) | Magin (dBuV/m) |
|-----------------------|-----------------|-----------------|----------------|---------------|--------------|----------------|----------------|
| 802.11n Channel:CH64  |                 |                 |                |               |              |                |                |
| 17974.7               | 56.8            | -25.5           | 46.7           | 35.6          | V            | 74             | 17.2           |
| 17981.3               | 55.9            | -25.5           | 46.7           | 34.7          | H            | 74             | 18.1           |
| 17962.6               | 55.8            | -25.5           | 46.7           | 34.6          | H            | 74             | 18.2           |
| 17860.3               | 55.6            | -25.5           | 46.7           | 34.4          | H            | 74             | 18.4           |
| 17948.3               | 55.5            | -25.5           | 46.7           | 34.3          | H            | 74             | 18.5           |
| 5368.4                | 56.4            | -16.9           | 34             | 39.3          | H            | 74             | 17.6           |
| 802.11n Channel:CH100 |                 |                 |                |               |              |                |                |
| 17872.4               | 56.6            | -25.5           | 46.7           | 35.4          | H            | 74             | 17.4           |
| 17948.3               | 56.6            | -25.5           | 46.7           | 35.4          | H            | 74             | 17.4           |
| 17971.4               | 56.6            | -25.5           | 46.7           | 35.4          | V            | 74             | 17.4           |
| 17968.1               | 56.4            | -25.5           | 46.7           | 35.2          | V            | 74             | 17.6           |
| 17877.9               | 56.2            | -25.5           | 46.7           | 35            | H            | 74             | 17.8           |
| 5459.6                | 56.7            | -16.8           | 34.2           | 39.3          | H            | 74             | 17.3           |
| 802.11n Channel:CH120 |                 |                 |                |               |              |                |                |
| 17909.8               | 56.5            | -25.5           | 46.7           | 35.3          | V            | 74             | 17.5           |
| 17962.6               | 56.4            | -25.5           | 46.7           | 35.2          | V            | 74             | 17.6           |
| 17991.2               | 56.4            | -25.5           | 46.7           | 35.2          | V            | 74             | 17.6           |
| 17899.9               | 56.1            | -25.5           | 46.7           | 34.9          | V            | 74             | 17.9           |
| 17938.4               | 56.1            | -25.5           | 46.7           | 34.9          | V            | 74             | 17.9           |
| 17964.8               | 56.1            | -25.5           | 46.7           | 34.9          | H            | 74             | 17.9           |
| 802.11n Channel:CH140 |                 |                 |                |               |              |                |                |
| 17949.4               | 56.3            | -25.5           | 46.7           | 35.1          | V            | 74             | 17.7           |
| 17967                 | 56.3            | -25.5           | 46.7           | 35.1          | H            | 74             | 17.7           |
| 17972.5               | 56.1            | -25.5           | 46.7           | 34.9          | H            | 74             | 17.9           |
| 17978                 | 56.1            | -25.5           | 46.7           | 34.9          | H            | 74             | 17.9           |
| 17979.1               | 56              | -25.5           | 46.7           | 34.8          | H            | 74             | 18             |
| 5747.6                | 57.5            | -16.3           | 34.3           | 39.5          | H            | 74             | 16.5           |
| 802.11n Channel:CH140 |                 |                 |                |               |              |                |                |
| 17946.4               | 57.4            | -25.5           | 46.7           | 36.2          | V            | 74             | 16.6           |
| 17967.4               | 57.3            | -25.5           | 46.7           | 36.1          | H            | 74             | 16.7           |
| 17974.5               | 55.7            | -25.5           | 46.7           | 34.5          | H            | 74             | 18.3           |
| 17979                 | 55.3            | -25.5           | 46.7           | 34.1          | V            | 74             | 18.7           |
| 17975.7               | 55.6            | -25.5           | 46.7           | 34.4          | V            | 74             | 18.4           |
| 17982.4               | 55.4            | -25.5           | 46.7           | 34.2          | H            | 74             | 18.6           |

**802.11n-HT40**

| Frequency (MHz)          | Result (dBuV/m) | Cable Loss (dB) | Antenna Factor | PMea (dBuV/m) | Polarization | Limit (dBuV/m) | Magin (dBuV/m) |
|--------------------------|-----------------|-----------------|----------------|---------------|--------------|----------------|----------------|
| 802.11n 40MHz Channel38  |                 |                 |                |               |              |                |                |
| 17975.8                  | 56.3            | -25.5           | 46.7           | 35.1          | H            | 74             | 17.7           |
| 17997.8                  | 56.2            | -25.5           | 46.7           | 35            | V            | 74             | 17.8           |
| 17949.4                  | 56.1            | -25.5           | 46.7           | 34.9          | V            | 74             | 17.9           |
| 17974.7                  | 56.1            | -25.5           | 46.7           | 34.9          | V            | 74             | 17.9           |
| 17992.3                  | 56.1            | -25.5           | 46.7           | 34.9          | H            | 74             | 17.9           |
| 5146.1                   | 51.7            | -17             | 33.7           | 35            | H            | 74             | 22.3           |
| 802.11n 40MHz Channel46  |                 |                 |                |               |              |                |                |
| 17958.2                  | 56.3            | -25.5           | 46.7           | 35.1          | H            | 74             | 17.7           |
| 17979.1                  | 56.3            | -25.5           | 46.7           | 35.1          | V            | 74             | 17.7           |
| 17846                    | 55.7            | -25.5           | 46.7           | 34.5          | H            | 74             | 18.3           |
| 17965.9                  | 55.7            | -25.5           | 46.7           | 34.5          | H            | 74             | 18.3           |
| 17961.5                  | 55.6            | -25.5           | 46.7           | 34.4          | V            | 74             | 18.4           |
| 17954.9                  | 55.5            | -25.5           | 46.7           | 34.3          | H            | 74             | 18.5           |
| 802.11n 40MHz Channel54  |                 |                 |                |               |              |                |                |
| 17968.1                  | 56.3            | -25.5           | 46.7           | 35.1          | H            | 74             | 17.7           |
| 17989                    | 56.2            | -25.5           | 46.7           | 35            | H            | 74             | 17.8           |
| 17980.2                  | 55.8            | -25.5           | 46.7           | 34.6          | V            | 74             | 18.2           |
| 17982.4                  | 55.8            | -25.5           | 46.7           | 34.6          | H            | 74             | 18.2           |
| 17987.9                  | 55.8            | -25.5           | 46.7           | 34.6          | H            | 74             | 18.2           |
| 17639.2                  | 55.4            | -25.7           | 46             | 35.2          | V            | 74             | 18.6           |
| 802.11n 40MHz Channel62  |                 |                 |                |               |              |                |                |
| 17976.9                  | 56.6            | -25.5           | 46.7           | 35.4          | H            | 74             | 17.4           |
| 17951.6                  | 56.2            | -25.5           | 46.7           | 35            | H            | 74             | 17.8           |
| 17947.2                  | 56              | -25.5           | 46.7           | 34.8          | H            | 74             | 18             |
| 17945                    | 55.9            | -25.5           | 46.7           | 34.7          | H            | 74             | 18.1           |
| 17991.2                  | 55.9            | -25.5           | 46.7           | 34.7          | H            | 74             | 18.1           |
| 5353.2                   | 52.9            | -16.9           | 34             | 35.8          | H            | 74             | 21.1           |
| 802.11n 40MHz Channel102 |                 |                 |                |               |              |                |                |
| 17992.3                  | 56.8            | -25.5           | 46.7           | 35.6          | H            | 74             | 17.2           |
| 17961.5                  | 56.7            | -25.5           | 46.7           | 35.5          | V            | 74             | 17.3           |
| 17979.1                  | 56.2            | -25.5           | 46.7           | 35            | H            | 74             | 17.8           |
| 17942.8                  | 56.1            | -25.5           | 46.7           | 34.9          | V            | 74             | 17.9           |
| 17968.1                  | 56.1            | -25.5           | 46.7           | 34.9          | V            | 74             | 17.9           |
| 5453.3                   | 56.8            | -16.8           | 34.2           | 39.4          | H            | 74             | 17.2           |

| Frequency (MHz)          | Result (dBuV/m) | Cable Loss (dB) | Antenna Factor | PMea (dBuV/m) | Polarization | Limit (dBuV/m) | Margin (dBuV/m) |
|--------------------------|-----------------|-----------------|----------------|---------------|--------------|----------------|-----------------|
| 802.11n 40MHz Channel108 |                 |                 |                |               |              |                |                 |
| 17983.5                  | 56.8            | -25.5           | 46.7           | 35.6          | H            | 74             | 17.2            |
| 17971.4                  | 56.5            | -25.5           | 46.7           | 35.3          | V            | 74             | 17.5            |
| 17970.3                  | 56.1            | -25.5           | 46.7           | 34.9          | H            | 74             | 17.9            |
| 17976.9                  | 56              | -25.5           | 46.7           | 34.8          | H            | 74             | 18              |
| 17864.7                  | 55.8            | -25.5           | 46.7           | 34.6          | V            | 74             | 18.2            |
| 17995.6                  | 55.8            | -25.5           | 46.7           | 34.6          | H            | 74             | 18.2            |
| 802.11n 40MHz Channel134 |                 |                 |                |               |              |                |                 |
| 17938.4                  | 58              | -25.5           | 46.7           | 36.8          | H            |                |                 |
| 17995.6                  | 57.3            | -25.5           | 46.7           | 36.1          | V            | 74             | 16.7            |
| 17930.7                  | 56.2            | -25.5           | 46.7           | 35            | H            | 74             | 17.8            |
| 17996.7                  | 56.2            | -25.5           | 46.7           | 35            | H            | 74             | 17.8            |
| 17886.7                  | 56              | -25.5           | 46.7           | 34.8          | V            | 74             | 18              |
| 5729.9                   | 52.9            | -16.3           | 34.3           | 34.9          | H            | 74             | 21.1            |
| 802.11n 40MHz Channel142 |                 |                 |                |               |              |                |                 |
| 17933.4                  | 56.7            | -25.5           | 46.7           | 35.5          | H            | 74             | 17.3            |
| 17991.2                  | 56.3            | -25.5           | 46.7           | 35.1          | V            | 74             | 17.7            |
| 17936.1                  | 56              | -25.5           | 46.7           | 34.8          | H            | 74             | 18              |
| 17991.2                  | 55.9            | -25.5           | 46.7           | 34.7          | H            | 74             | 18.1            |
| 17882.2                  | 54.7            | -25.5           | 46.7           | 33.5          | V            | 74             | 19.3            |
| 17881.5                  | 54.7            | -25.5           | 46.7           | 33.5          | V            | 74             | 19.3            |

**802.11ac-HT20**

| Frequency (MHz)     | Result (dBuV/m) | Cable Loss (dB) | Antenna Factor | PMea (dBuV/m) | Polarization | Limit (dBuV/m) | Magin (dBuV/m) |
|---------------------|-----------------|-----------------|----------------|---------------|--------------|----------------|----------------|
| 802.11ac Channel 36 |                 |                 |                |               |              |                |                |
| 17980.2             | 56.1            | -25.5           | 46.7           | 34.9          | V            | 74             | 17.9           |
| 17958.2             | 55.9            | -25.5           | 46.7           | 34.7          | H            | 74             | 18.1           |
| 17938.4             | 55.8            | -25.5           | 46.7           | 34.6          | V            | 74             | 18.2           |
| 17956               | 55.8            | -25.5           | 46.7           | 34.6          | V            | 74             | 18.2           |
| 17939.5             | 55.7            | -25.5           | 46.7           | 34.5          | H            | 74             | 18.3           |
| 5133.5              | 56.3            | -17             | 33.7           | 39.6          | H            | 74             | 17.7           |
| 802.11ac Channel 40 |                 |                 |                |               |              |                |                |
| 17973.6             | 56.4            | -25.5           | 46.7           | 35.2          | H            | 74             | 17.6           |
| 17979.1             | 56.4            | -25.5           | 46.7           | 35.2          | H            | 74             | 17.6           |
| 17954.9             | 56.2            | -25.5           | 46.7           | 35            | H            | 74             | 17.8           |
| 17960.4             | 56.1            | -25.5           | 46.7           | 34.9          | H            | 74             | 17.9           |
| 17992.3             | 56.1            | -25.5           | 46.7           | 34.9          | V            | 74             | 17.9           |
| 17949.4             | 55.9            | -25.5           | 46.7           | 34.7          | H            | 74             | 18.1           |
| 802.11ac Channel 48 |                 |                 |                |               |              |                |                |
| 17967               | 55.9            | -25.5           | 46.7           | 34.7          | H            | 74             | 18.1           |
| 17981.3             | 55.9            | -25.5           | 46.7           | 34.7          | H            | 74             | 18.1           |
| 17945               | 55.7            | -25.5           | 46.7           | 34.5          | H            | 74             | 18.3           |
| 17899.9             | 55.6            | -25.5           | 46.7           | 34.4          | H            | 74             | 18.4           |
| 17952.7             | 55.6            | -25.5           | 46.7           | 34.4          | V            | 74             | 18.4           |
| 17858.1             | 55.5            | -25.5           | 46.7           | 34.3          | H            | 74             | 18.5           |
| 802.11ac Channel 52 |                 |                 |                |               |              |                |                |
| 17971.4             | 57.1            | -25.5           | 46.7           | 35.9          | H            | 74             | 16.9           |
| 17996.7             | 56.5            | -25.5           | 46.7           | 35.3          | H            | 74             | 17.5           |
| 17980.2             | 56.4            | -25.5           | 46.7           | 35.2          | V            | 74             | 17.6           |
| 17956               | 56.3            | -25.5           | 46.7           | 35.1          | H            | 74             | 17.7           |
| 17950.5             | 56.1            | -25.5           | 46.7           | 34.9          | H            | 74             | 17.9           |
| 17861.4             | 55.6            | -25.5           | 46.7           | 34.4          | V            | 74             | 18.4           |
| 802.11ac Channel 56 |                 |                 |                |               |              |                |                |
| 17965.9             | 57.3            | -25.5           | 46.7           | 36.1          | H            | 74             | 16.7           |
| 17992.3             | 56.7            | -25.5           | 46.7           | 35.5          | H            | 74             | 17.3           |
| 17964.8             | 56.4            | -25.5           | 46.7           | 35.2          | H            | 74             | 17.6           |
| 17963.7             | 56              | -25.5           | 46.7           | 34.8          | V            | 74             | 18             |
| 17981.3             | 56              | -25.5           | 46.7           | 34.8          | H            | 74             | 18             |
| 17996.7             | 56              | -25.5           | 46.7           | 34.8          | V            | 74             | 18             |

| Frequency (MHz)      | Result (dBuV/m) | Cable Loss (dB) | Antenna Factor | PMea (dBuV/m) | Polarization | Limit (dBuV/m) | Margin (dBuV/m) |
|----------------------|-----------------|-----------------|----------------|---------------|--------------|----------------|-----------------|
| 802.11ac Channel 64  |                 |                 |                |               |              |                |                 |
| 17984.6              | 56.1            | -25.5           | 46.7           | 34.9          | H            | 74             | 17.9            |
| 17993.4              | 56              | -25.5           | 46.7           | 34.8          | H            | 74             | 18              |
| 17996.7              | 55.9            | -25.5           | 46.7           | 34.7          | H            | 74             | 18.1            |
| 17967                | 55.8            | -25.5           | 46.7           | 34.6          | H            | 74             | 18.2            |
| 17855.9              | 55.7            | -25.5           | 46.7           | 34.5          | H            | 74             | 18.3            |
| 5355.8               | 56.1            | -16.9           | 34             | 39            | H            | 74             | 17.9            |
| 802.11ac Channel 100 |                 |                 |                |               |              |                |                 |
| 17973.6              | 56.6            | -25.5           | 46.7           | 35.4          | H            | 74             | 17.4            |
| 17990.1              | 56.2            | -25.5           | 46.7           | 35            | H            | 74             | 17.8            |
| 17927.4              | 56.1            | -25.5           | 46.7           | 34.9          | H            | 74             | 17.9            |
| 17964.8              | 56.1            | -25.5           | 46.7           | 34.9          | H            | 74             | 17.9            |
| 17994.5              | 56.1            | -25.5           | 46.7           | 34.9          | V            | 74             | 17.9            |
| 5451.9               | 55.9            | -16.8           | 34.2           | 38.5          | H            | 74             | 18.1            |
| 802.11ac Channel 120 |                 |                 |                |               |              |                |                 |
| 17976.9              | 57              | -25.5           | 46.7           | 35.8          | V            | 74             | 17              |
| 17991.2              | 55.8            | -25.5           | 46.7           | 34.6          | H            | 74             | 18.2            |
| 17996.7              | 55.8            | -25.5           | 46.7           | 34.6          | H            | 74             | 18.2            |
| 17978                | 55.7            | -25.5           | 46.7           | 34.5          | H            | 74             | 18.3            |
| 17989                | 55.7            | -25.5           | 46.7           | 34.5          | V            | 74             | 18.3            |
| 17995.6              | 55.7            | -25.5           | 46.7           | 34.5          | H            | 74             | 18.3            |
| 802.11ac Channel 140 |                 |                 |                |               |              |                |                 |
| 17946.1              | 56              | -25.5           | 46.7           | 34.8          | H            | 74             | 18              |
| 17964.8              | 56              | -25.5           | 46.7           | 34.8          | H            | 74             | 18              |
| 17981.3              | 56              | -25.5           | 46.7           | 34.8          | V            | 74             | 18              |
| 17932.9              | 55.7            | -25.5           | 46.7           | 34.5          | H            | 74             | 18.3            |
| 17973.6              | 55.7            | -25.5           | 46.7           | 34.5          | H            | 74             | 18.3            |
| 5725.2               | 57.6            | -16.3           | 34.3           | 39.6          | H            | 74             | 16.4            |
| 802.11ac Channel 144 |                 |                 |                |               |              |                |                 |
| 17956.1              | 55.7            | -25.5           | 46.7           | 34.5          | H            | 74             | 18.3            |
| 17967.8              | 57              | -25.5           | 46.7           | 35.8          | H            | 74             | 17              |
| 17978.3              | 57              | -25.5           | 46.7           | 35.8          | V            | 74             | 17              |
| 17940.6              | 56.7            | -25.5           | 46.7           | 35.5          | H            | 74             | 17.3            |
| 17979.3              | 56.7            | -25.5           | 46.7           | 35.5          | V            | 74             | 17.3            |
| 17976.8              | 56.7            | -25.5           | 46.7           | 35.5          | V            | 74             | 17.3            |

**802.11ac-HT40**

| Frequency (MHz)            | Result (dBuV/m) | Cable Loss (dB) | Antenna Factor | PMea (dBuV/m) | Polarization | Limit (dBuV/m) | Margin (dBuV/m) |
|----------------------------|-----------------|-----------------|----------------|---------------|--------------|----------------|-----------------|
| 802.11ac 40M Channel:CH38  |                 |                 |                |               |              |                |                 |
| 17964.8                    | 56.5            | -25.5           | 46.7           | 35.3          | H            | 74             | 17.5            |
| 17976.9                    | 56.5            | -25.5           | 46.7           | 35.3          | H            | 74             | 17.5            |
| 17983.5                    | 56.1            | -25.5           | 46.7           | 34.9          | V            | 74             | 17.9            |
| 17959.3                    | 56              | -25.5           | 46.7           | 34.8          | H            | 74             | 18              |
| 17993.4                    | 56              | -25.5           | 46.7           | 34.8          | V            | 74             | 18              |
| 5146.5                     | 51.8            | -17             | 33.7           | 35.1          | H            | 74             | 22.2            |
| 802.11ac 40M Channel:CH46  |                 |                 |                |               |              |                |                 |
| 17949.4                    | 56.3            | -25.5           | 46.7           | 35.1          | V            | 74             | 17.7            |
| 17962.6                    | 56              | -25.5           | 46.7           | 34.8          | H            | 74             | 18              |
| 17973.6                    | 55.8            | -25.5           | 46.7           | 34.6          | H            | 74             | 18.2            |
| 17986.8                    | 55.8            | -25.5           | 46.7           | 34.6          | H            | 74             | 18.2            |
| 17939.5                    | 55.7            | -25.5           | 46.7           | 34.5          | H            | 74             | 18.3            |
| 17954.9                    | 55.7            | -25.5           | 46.7           | 34.5          | H            | 74             | 18.3            |
| 802.11ac 40M Channel:CH54  |                 |                 |                |               |              |                |                 |
| 17947.2                    | 55.6            | -25.5           | 46.7           | 34.4          | H            | 74             | 18.4            |
| 17985.7                    | 55.6            | -25.5           | 46.7           | 34.4          | V            | 74             | 18.4            |
| 17935.1                    | 55.5            | -25.5           | 46.7           | 34.3          | V            | 74             | 18.5            |
| 17953.8                    | 55.5            | -25.5           | 46.7           | 34.3          | V            | 74             | 18.5            |
| 17984.6                    | 55.5            | -25.5           | 46.7           | 34.3          | V            | 74             | 18.5            |
| 17937.3                    | 55.4            | -25.5           | 46.7           | 34.2          | V            | 74             | 18.6            |
| 802.11ac 40M Channel:CH62  |                 |                 |                |               |              |                |                 |
| 17956                      | 57.5            | -25.5           | 46.7           | 36.3          | H            | 74             | 16.5            |
| 17968.1                    | 57.5            | -25.5           | 46.7           | 36.3          | V            | 74             | 16.5            |
| 17952.7                    | 57              | -25.5           | 46.7           | 35.8          | H            | 74             | 17              |
| 17962.6                    | 56              | -25.5           | 46.7           | 34.8          | V            | 74             | 18              |
| 17939.5                    | 55.9            | -25.5           | 46.7           | 34.7          | H            | 74             | 18.1            |
| 5358.3                     | 53              | -16.9           | 34             | 35.9          | H            | 74             | 21              |
| 802.11ac 40M Channel:CH102 |                 |                 |                |               |              |                |                 |
| 17983.5                    | 56.3            | -25.5           | 46.7           | 35.1          | H            | 74             | 17.7            |
| 17982.4                    | 56.1            | -25.5           | 46.7           | 34.9          | V            | 74             | 17.9            |
| 17864.7                    | 55.9            | -25.5           | 46.7           | 34.7          | V            | 74             | 18.1            |
| 17870.2                    | 55.9            | -25.5           | 46.7           | 34.7          | H            | 74             | 18.1            |
| 17987.9                    | 55.9            | -25.5           | 46.7           | 34.7          | H            | 74             | 18.1            |
| 5450.1                     | 51.6            | -16.8           | 34.2           | 34.2          | H            | 74             | 22.4            |



| Frequency (MHz)            | Result (dBuV/m) | Cable Loss (dB) | Antenna Factor | PMea (dBuV/m) | Polarization | Limit (dBuV/m) | Magin (dBuV/m) |
|----------------------------|-----------------|-----------------|----------------|---------------|--------------|----------------|----------------|
| 802.11ac 40M Channel:CH118 |                 |                 |                |               |              |                |                |
| 17989                      | 56.7            | -25.5           | 46.7           | 35.5          | H            | 74             | 17.3           |
| 17920.8                    | 56.3            | -25.5           | 46.7           | 35.1          | H            | 74             | 17.7           |
| 17974.7                    | 56.2            | -25.5           | 46.7           | 35            | H            | 74             | 17.8           |
| 17996.7                    | 56.2            | -25.5           | 46.7           | 35            | H            | 74             | 17.8           |
| 17951.6                    | 55.9            | -25.5           | 46.7           | 34.7          | H            | 74             | 18.1           |
| 17949.4                    | 55.8            | -25.5           | 46.7           | 34.6          | H            | 74             | 18.2           |
| 802.11ac 40M Channel:CH134 |                 |                 |                |               |              |                |                |
| 17943.9                    | 56.5            | -25.5           | 46.7           | 35.3          | V            | 74             | 17.5           |
| 17965.9                    | 56.2            | -25.5           | 46.7           | 35            | H            | 74             | 17.8           |
| 17964.8                    | 56              | -25.5           | 46.7           | 34.8          | V            | 74             | 18             |
| 17940.6                    | 55.8            | -25.5           | 46.7           | 34.6          | V            | 74             | 18.2           |
| 17849.3                    | 55.7            | -25.5           | 46.7           | 34.5          | V            | 74             | 18.3           |
| 5740.4                     | 52.7            | -16.3           | 34.3           | 34.7          | H            | 74             | 21.3           |
| 802.11ac 40M Channel:CH142 |                 |                 |                |               |              |                |                |
| 179412.9                   | 55.5            | -25.5           | 46.7           | 34.3          | V            | 74             | 18.5           |
| 17965.9                    | 56.3            | -25.5           | 46.7           | 35.1          | H            | 74             | 17.7           |
| 17964.1                    | 55              | -25.5           | 46.7           | 33.8          | V            | 74             | 19             |
| 17944.6                    | 55.5            | -25.5           | 46.7           | 34.3          | V            | 74             | 18.5           |
| 17849.3                    | 55.7            | -25.5           | 46.7           | 34.5          | H            | 74             | 18.3           |
| 17852.1                    | 55.9            | -25.5           | 46.7           | 34.7          | H            | 74             | 18.1           |

**802.11ac-HT80**

| Frequency (MHz)            | Result (dBuV/m) | Cable Loss (dB) | Antenna Factor | PMea (dBuV/m) | Polarization | Limit (dBuV/m) | Margin (dBuV/m) |
|----------------------------|-----------------|-----------------|----------------|---------------|--------------|----------------|-----------------|
| 802.11ac 80M Channel:CH42  |                 |                 |                |               |              |                |                 |
| 17953.8                    | 56.4            | -25.5           | 46.7           | 35.2          | H            | 74             | 17.6            |
| 17844.9                    | 55.9            | -25.5           | 46.7           | 34.7          | H            | 74             | 18.1            |
| 17992.3                    | 55.9            | -25.5           | 46.7           | 34.7          | V            | 74             | 18.1            |
| 17848.2                    | 55.7            | -25.5           | 46.7           | 34.5          | H            | 74             | 18.3            |
| 17939.5                    | 55.7            | -25.5           | 46.7           | 34.5          | H            | 74             | 18.3            |
| 5147.9                     | 52.2            | -17             | 33.7           | 35.5          | H            | 74             | 21.8            |
| 802.11ac 80M Channel:CH58  |                 |                 |                |               |              |                |                 |
| 17974.7                    | 57.2            | -25.5           | 46.7           | 36            | H            | 74             | 16.8            |
| 17992.3                    | 57.1            | -25.5           | 46.7           | 35.9          | H            | 74             | 16.9            |
| 17859.2                    | 56.2            | -25.5           | 46.7           | 35            | V            | 74             | 17.8            |
| 17986.8                    | 56.2            | -25.5           | 46.7           | 35            | H            | 74             | 17.8            |
| 17995.6                    | 56.1            | -25.5           | 46.7           | 34.9          | H            | 74             | 17.9            |
| 5351.3                     | 53.9            | -16.9           | 34             | 36.8          | H            | 74             | 20.1            |
| 802.11ac 80M Channel:CH106 |                 |                 |                |               |              |                |                 |
| 17991.2                    | 56.4            | -25.5           | 46.7           | 35.2          | V            | 74             | 17.6            |
| 17978                      | 56.3            | -25.5           | 46.7           | 35.1          | H            | 74             | 17.7            |
| 17949.4                    | 55.9            | -25.5           | 46.7           | 34.7          | H            | 74             | 18.1            |
| 17973.6                    | 55.8            | -25.5           | 46.7           | 34.6          | H            | 74             | 18.2            |
| 17975.8                    | 55.8            | -25.5           | 46.7           | 34.6          | H            | 74             | 18.2            |
| 5459                       | 54.9            | -16.8           | 34.2           | 37.5          | H            | 74             | 19.1            |
| 802.11ac 80M Channel:CH138 |                 |                 |                |               |              |                |                 |
| 17992.4                    | 56.3            | -25.5           | 46.7           | 35.1          | V            | 74             | 17.7            |
| 17978.8                    | 56.3            | -25.5           | 46.7           | 35.5          | H            | 74             | 17.7            |
| 17951.4                    | 55.9            | -25.5           | 46.7           | 34.3          | H            | 74             | 18.1            |
| 17974.6                    | 55.8            | -25.5           | 46.7           | 34.1          | H            | 74             | 18.2            |
| 17973.8                    | 55.8            | -25.5           | 46.7           | 35.1          | H            | 74             | 18.2            |
| 17977.8                    | 55.8            | -25.5           | 46.7           | 35.2          | H            | 74             | 18.2            |

Sample calculation:

802.11a CH140–Peak, 5725.00 MHz

Result (dBuV/m) = PMea(47.9) + Cable Loss(-16.3) + Antenna Factor(34.3) = 65.9dBuV/m

### A.7. AC Powerline Conducted Emission (150kHz- 30MHz)

**Test Condition:**

| Voltage (V) | Frequency (Hz) |
|-------------|----------------|
| 110         | 60             |

**Measurement Result and limit:**

WLAN (Quasi-peak Limit)

| Frequency range (MHz) | Quasi-peak Limit (dB $\mu$ V) | Result (dB $\mu$ V) |  | Conclusion |
|-----------------------|-------------------------------|---------------------|--|------------|
|                       |                               | With charger        |  |            |
|                       |                               | 11a mode            |  |            |
| 0.15 to 0.5           | 66 to 56                      | Fig.75              |  | P          |
| 0.5 to 5              | 56                            |                     |  |            |
| 5 to 30               | 60                            |                     |  |            |

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

WLAN (Average Limit)

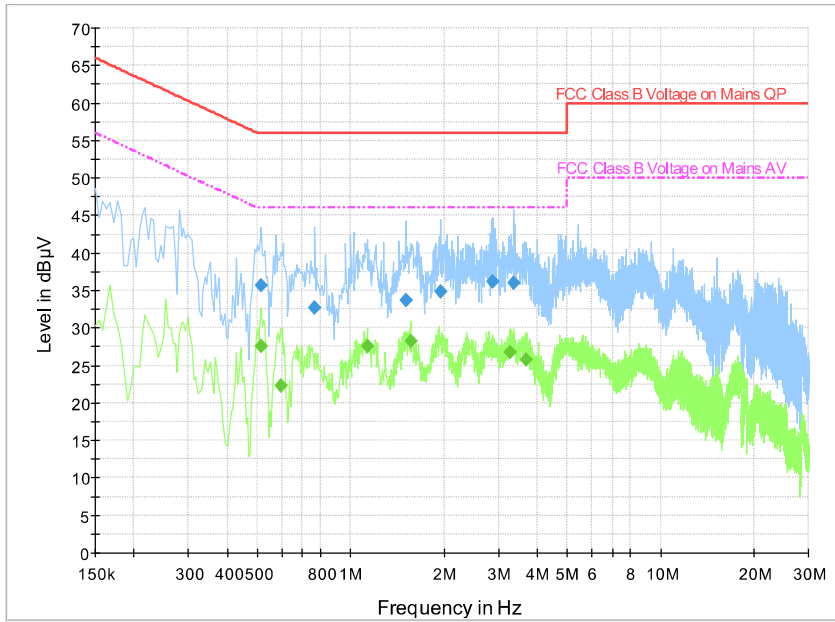
| Frequency range (MHz) | Average Limit (dB $\mu$ V) | Result (dB $\mu$ V) |  | Conclusion |
|-----------------------|----------------------------|---------------------|--|------------|
|                       |                            | With charger        |  |            |
|                       |                            | 11a mode            |  |            |
| 0.15 to 0.5           | 56 to 46                   | Fig.75              |  | P          |
| 0.5 to 5              | 46                         |                     |  |            |
| 5 to 30               | 50                         |                     |  |            |

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

**Conclusion: PASS**

Test graphs as below:

Result for Traffic:



**Fig.75 Conducted Emission (802.11a, Ch40, TX)**

**Final Result 1**

| Frequency(MHz) | QuasiPeak(dBµV) | PE  | Line | Corr.(dB) | Margin(dB) | Limit(dBµV) |
|----------------|-----------------|-----|------|-----------|------------|-------------|
| 0.514500       | 35.7            | GND | N    | 10.0      | 20.3       | 56.0        |
| 0.766500       | 32.7            | GND | N    | 10.1      | 23.3       | 56.0        |
| 1.504500       | 33.7            | GND | N    | 10.1      | 22.3       | 56.0        |
| 1.950000       | 34.8            | GND | N    | 10.1      | 21.2       | 56.0        |
| 2.872500       | 36.1            | GND | N    | 9.4       | 19.9       | 56.0        |
| 3.358500       | 35.9            | GND | N    | 9.9       | 20.1       | 56.0        |

**Final Result 2**

| Frequency(MHz) | Average(dBµV) | PE  | Line | Corr.(dB) | Margin(dB) | Limit(dBµV) |
|----------------|---------------|-----|------|-----------|------------|-------------|
| 0.514500       | 27.6          | GND | L1   | 10.0      | 18.4       | 46.0        |
| 0.595500       | 22.3          | GND | L1   | 10.0      | 23.7       | 46.0        |
| 1.131000       | 27.5          | GND | L1   | 10.0      | 18.5       | 46.0        |
| 1.563000       | 28.2          | GND | L1   | 10.1      | 17.8       | 46.0        |
| 3.268500       | 26.7          | GND | N    | 9.8       | 19.3       | 46.0        |
| 3.673500       | 25.7          | GND | L1   | 10.0      | 20.3       | 46.0        |

### A.8. 99% Occupied bandwidth

Method of Measurement: See ANSI C63.10-2013-clause 12.4.2.

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than  $[10 \log (OBW/RBW)]$  below the reference level. Specific guidance is given in 4.1.5.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
- h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

#### Measurement Uncertainty:

|                         |         |
|-------------------------|---------|
| Measurement Uncertainty | 60.80Hz |
|-------------------------|---------|

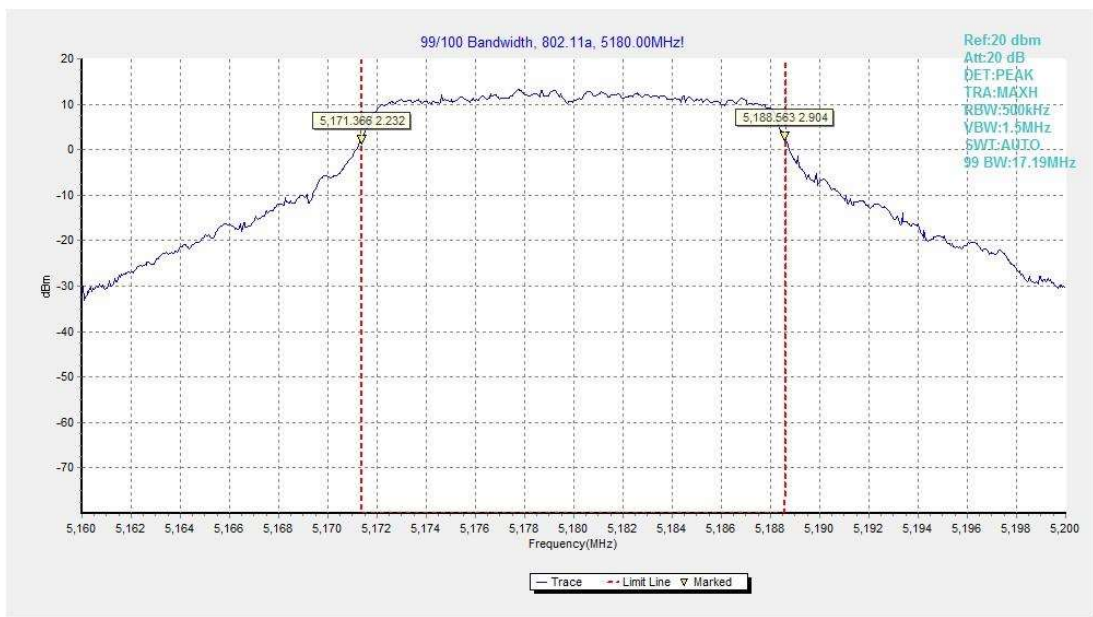
#### Measurement Result:

| Mode             | Frequency | 99% Occupied bandwidth<br>( MHz) |       | conclusion |
|------------------|-----------|----------------------------------|-------|------------|
|                  |           | Fig.                             | Value |            |
| 802.11a          | 5180 MHz  | Fig.76                           | 17.19 | P          |
|                  | 5200 MHz  | Fig.77                           | 17.21 | P          |
|                  | 5240 MHz  | Fig.78                           | 17.23 | P          |
| 802.11n<br>HT20  | 5180 MHz  | Fig.79                           | 18.36 | P          |
|                  | 5200 MHz  | Fig.80                           | 18.33 | P          |
|                  | 5240 MHz  | Fig.81                           | 18.36 | P          |
| 802.11ac<br>HT20 | 5180 MHz  | Fig.82                           | 18.38 | P          |
|                  | 5200 MHz  | Fig.83                           | 18.35 | P          |
|                  | 5240 MHz  | Fig.84                           | 18.38 | P          |

|                  |          |        |       |   |
|------------------|----------|--------|-------|---|
| 802.11n<br>HT40  | 5190 MHz | Fig.85 | 36.36 | P |
|                  | 5230 MHz | Fig.86 | 36.35 | P |
| 802.11ac<br>HT40 | 5190 MHz | Fig.87 | 36.36 | P |
|                  | 5230 MHz | Fig.88 | 36.34 | P |
| 802.11ac<br>HT80 | 5210 MHz | Fig.89 | 75.70 | P |

**Conclusion: PASS**

**Test graphs as below:**



**Fig.76 99% Occupied bandwidth (802.11a, 5180MHz)**