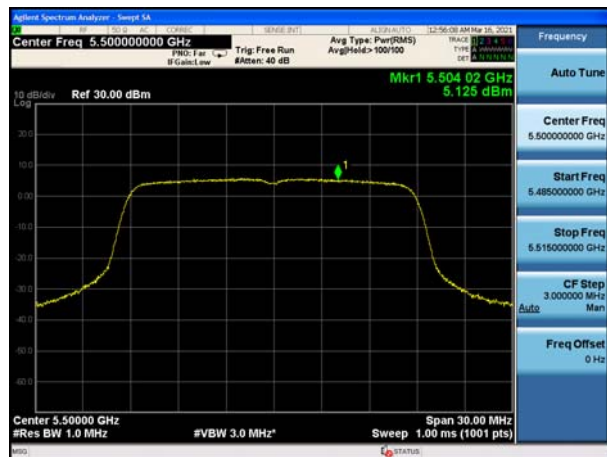
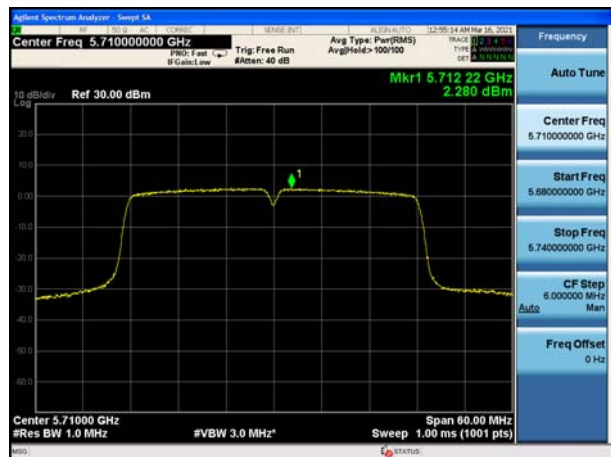




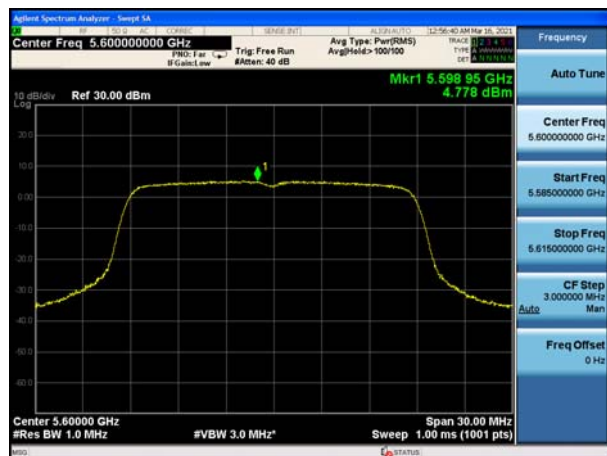
U-NII-2C, 802.11ac VHT20, Channel No.: 100



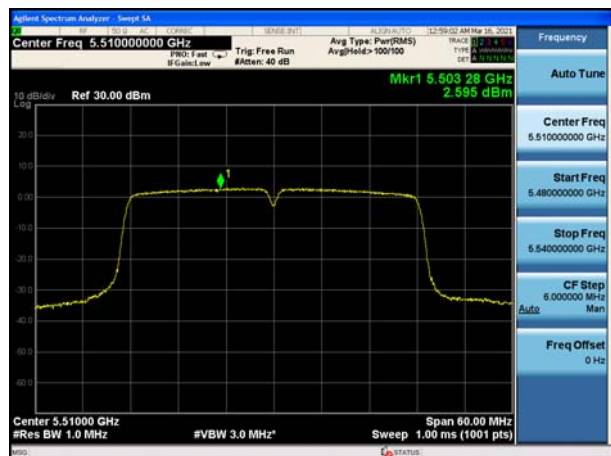
U-NII-2C, 802.11n HT40, Channel No.: 142



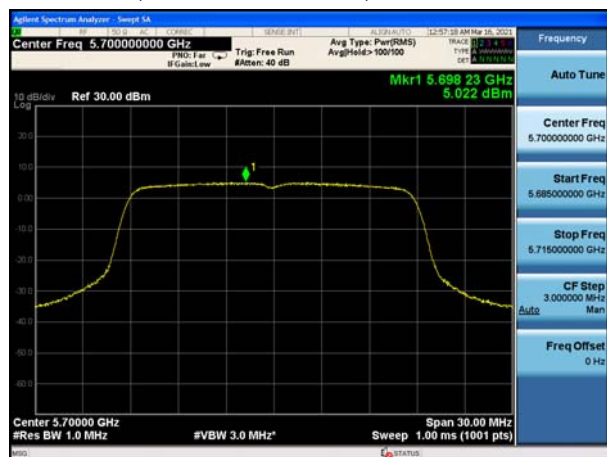
U-NII-2C, 802.11ac VHT20, Channel No.: 120



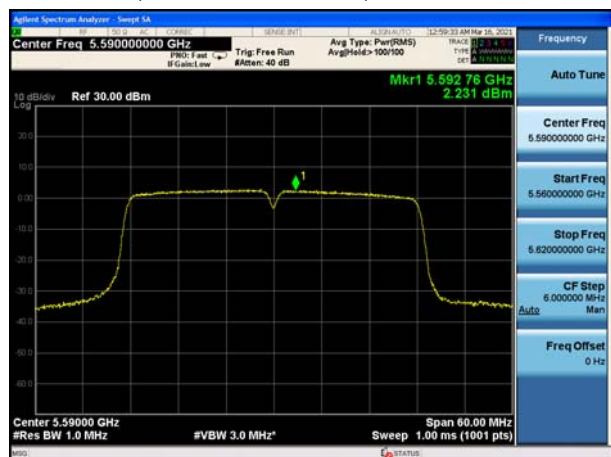
U-NII-2C, 802.11ac VHT40, Channel No.: 102



U-NII-2C, 802.11ac VHT20, Channel No.: 140

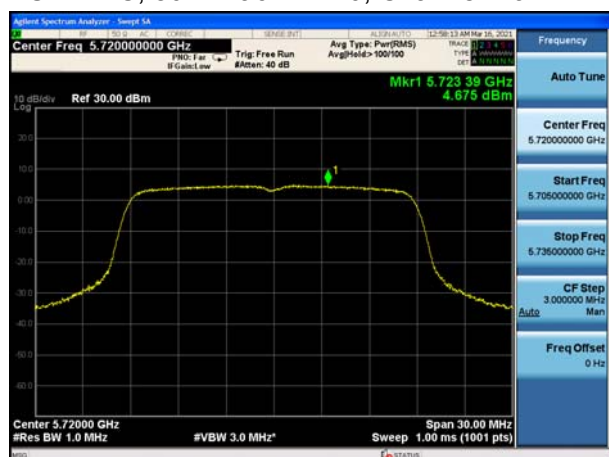


U-NII-2C, 802.11ac VHT40, Channel No.: 118

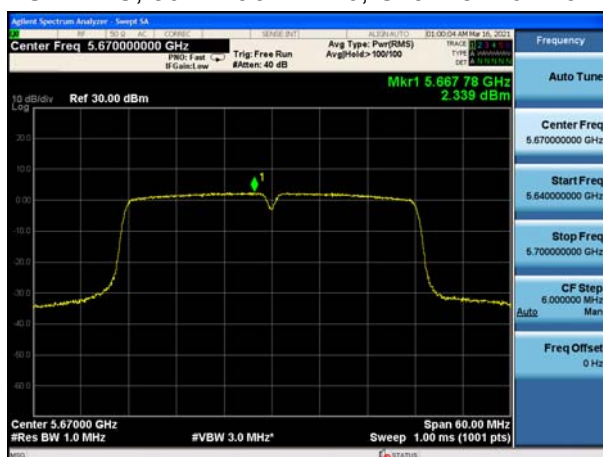




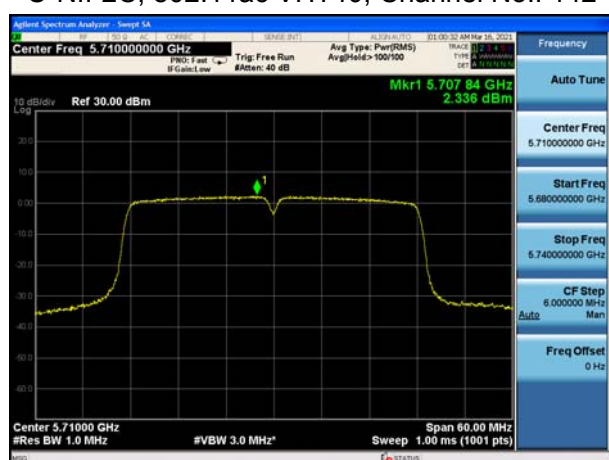
U-NII-2C, 802.11ac VHT20, Channel No.: 144



U-NII-2C, 802.11ac VHT40, Channel No.: 134



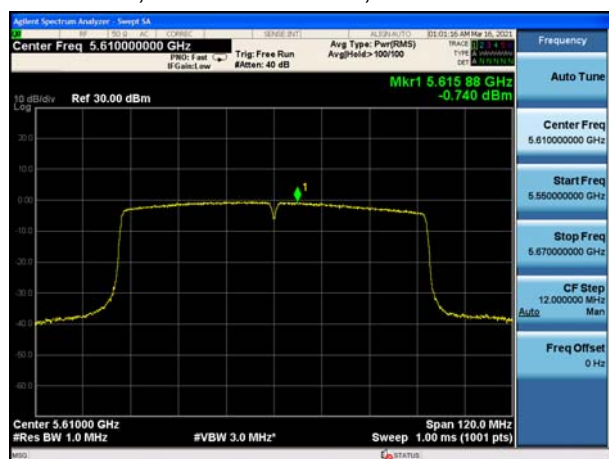
U-NII-2C, 802.11ac VHT40, Channel No.: 142



U-NII-2C, 802.11ax HE20, Channel No.: 100



U-NII-2C, 802.11ac VHT80, Channel No.: 122

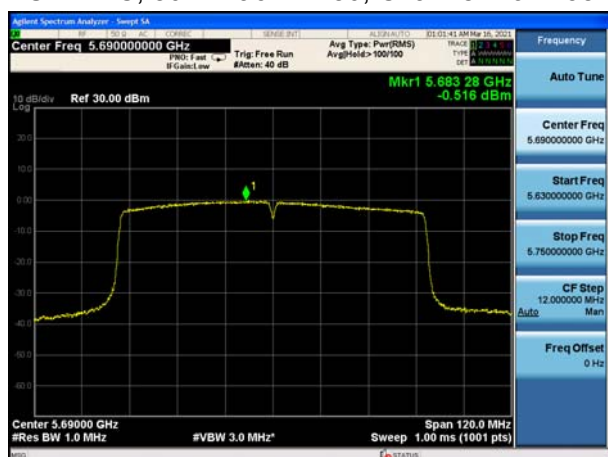


U-NII-2C, 802.11ax HE20, Channel No.: 120





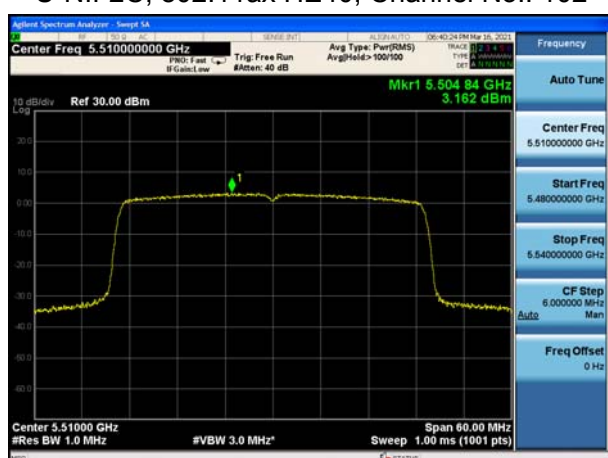
U-NII-2C, 802.11ac VHT80, Channel No.: 138



U-NII-2C, 802.11ax HE20, Channel No.: 140



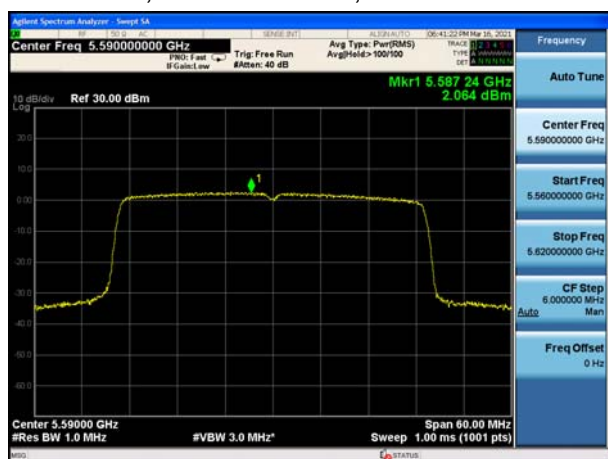
U-NII-2C, 802.11ax HE40, Channel No.: 102



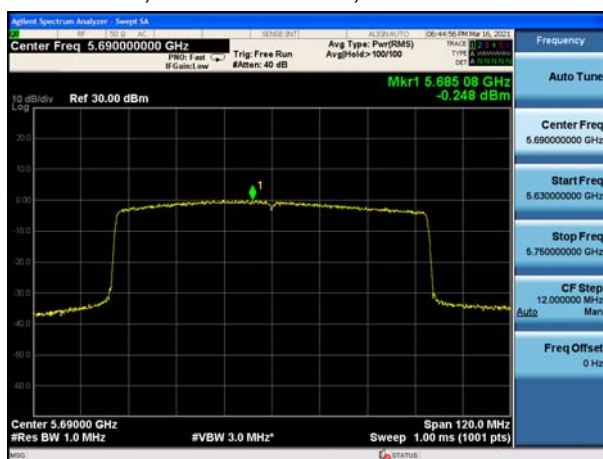
U-NII-2C, 802.11ax HE20, Channel No.: 144



U-NII-2C, 802.11ax HE40, Channel No.: 118

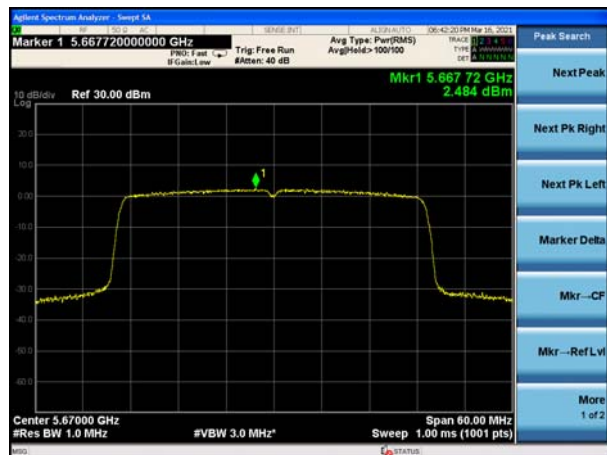


U-NII-2C, 802.11ax HE80, Channel No.: 138





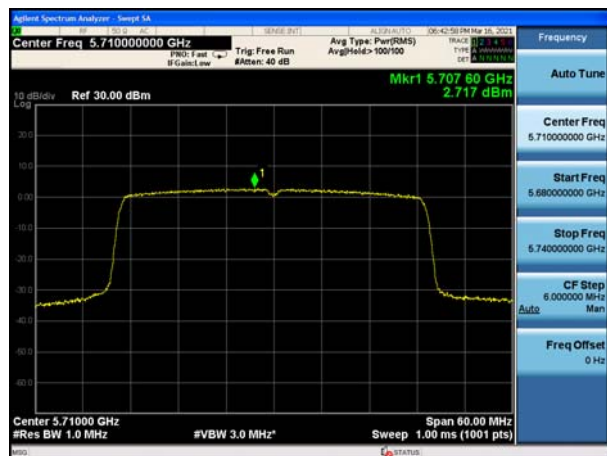
U-NII-2C, 802.11ax HE40, Channel No.: 134



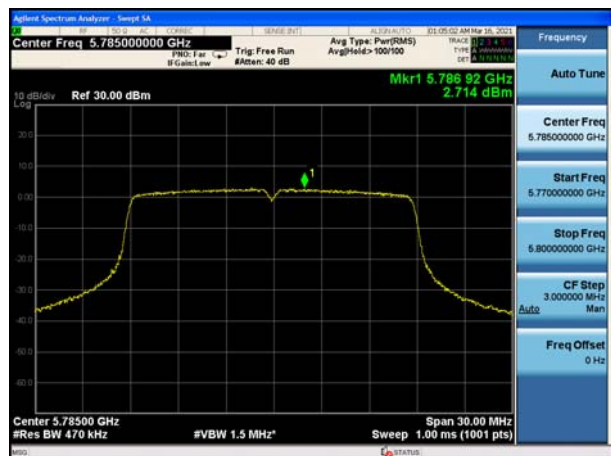
U-NII-3, 802.11n HT20, Channel No.: 149



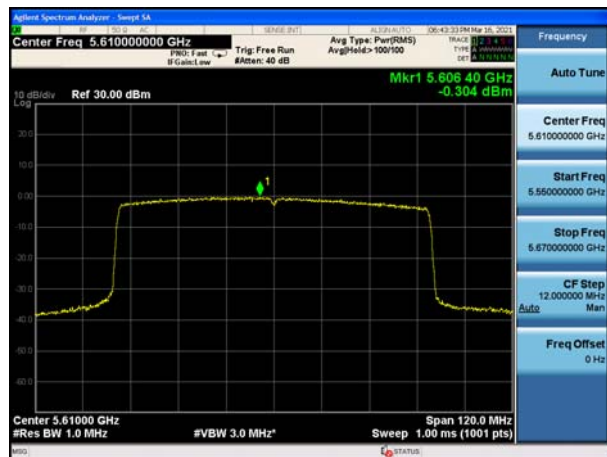
U-NII-2C, 802.11ax HE40, Channel No.: 142



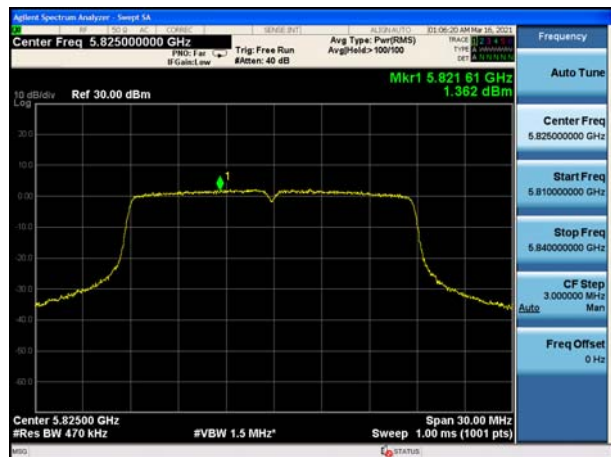
U-NII-3, 802.11n HT20, Channel No.: 157



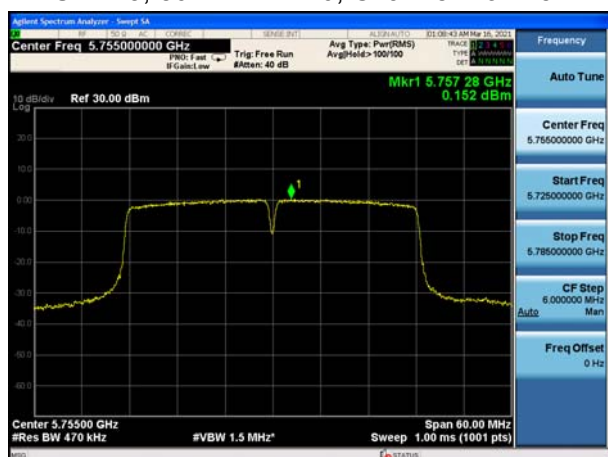
U-NII-2C, 802.11ax HE80, Channel No.: 122



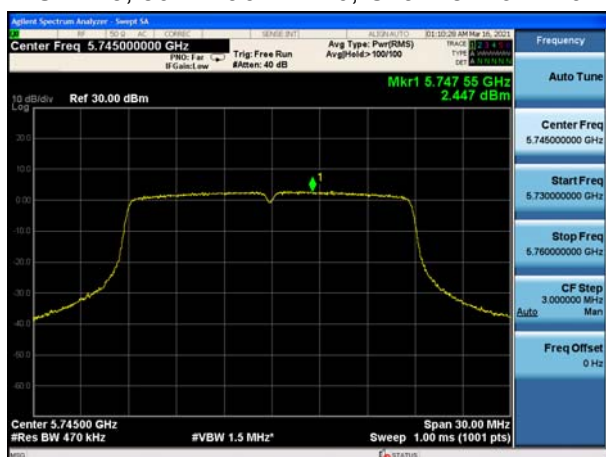
U-NII-3, 802.11n HT20, Channel No.: 165



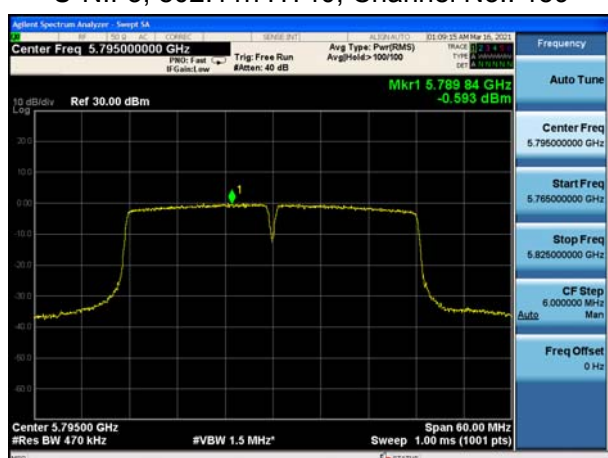
U-NII-3, 802.11n HT40, Channel No.: 151



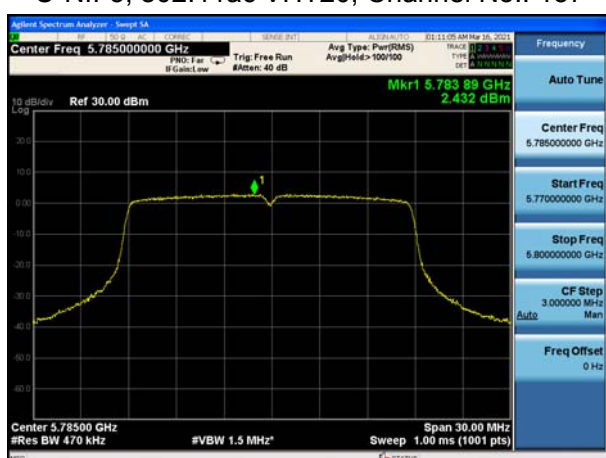
U-NII-3, 802.11ac VHT20, Channel No.: 149



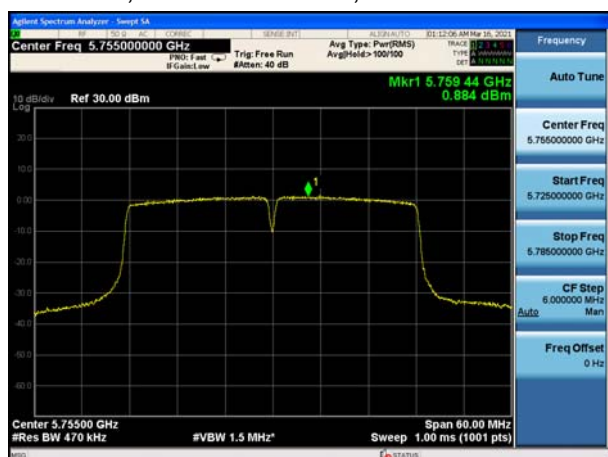
U-NII-3, 802.11n HT40, Channel No.: 159



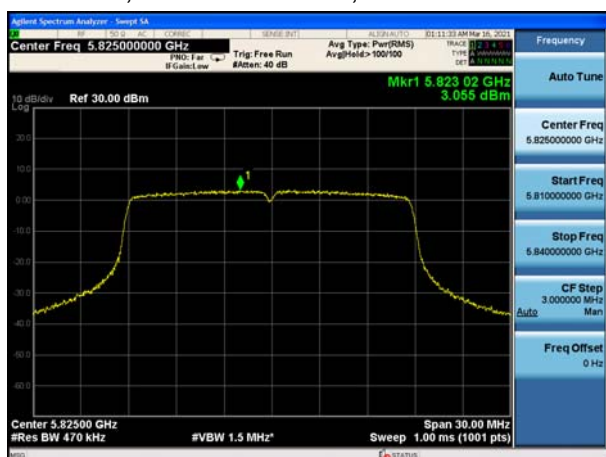
U-NII-3, 802.11ac VHT20, Channel No.: 157



U-NII-3, 802.11ac VHT40, Channel No.: 151

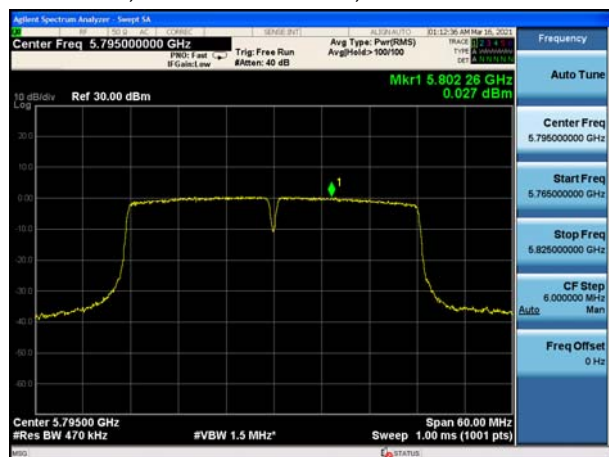


U-NII-3, 802.11ac VHT20, Channel No.: 165

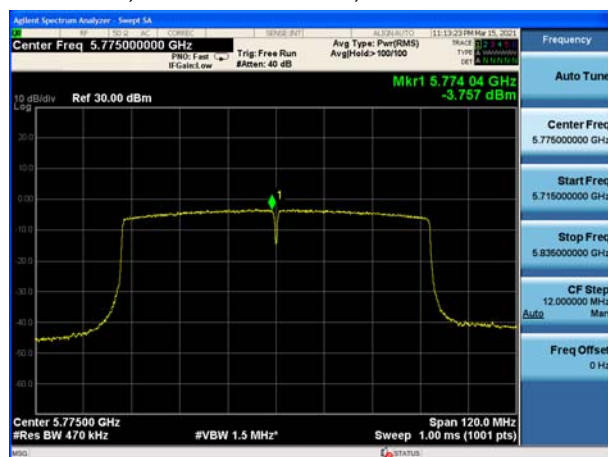




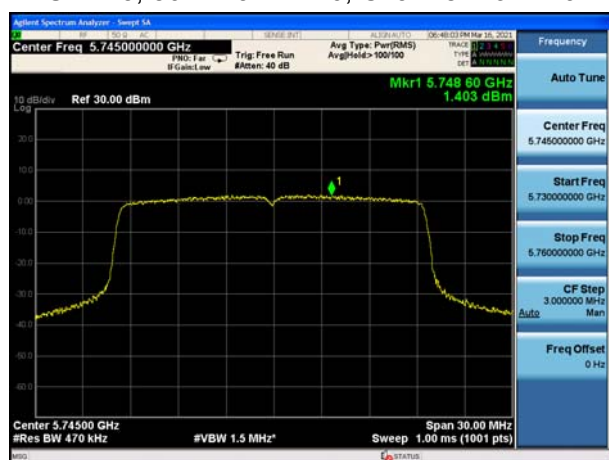
U-NII-3, 802.11ac VHT40, Channel No.: 159



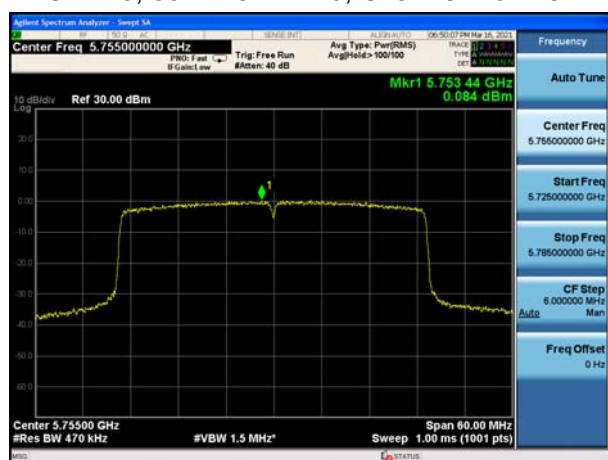
U-NII-3, 802.11ac VHT80, Channel No.: 155



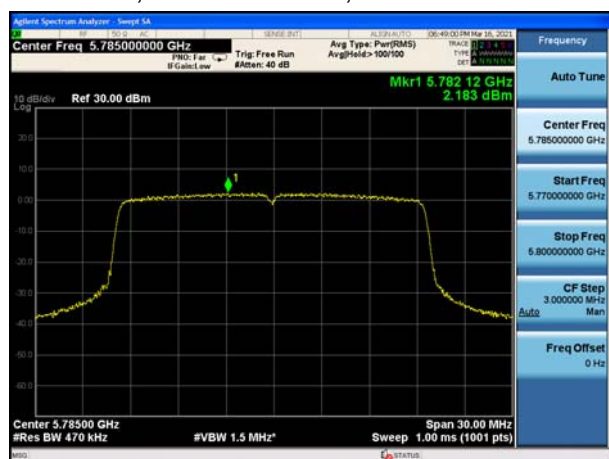
U-NII-3, 802.11ax HE20, Channel No.: 149



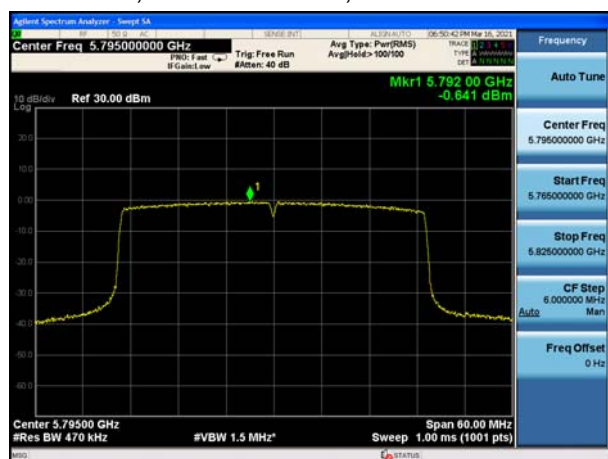
U-NII-3, 802.11ax HE40, Channel No.: 151



U-NII-3, 802.11ax HE20, Channel No.: 157

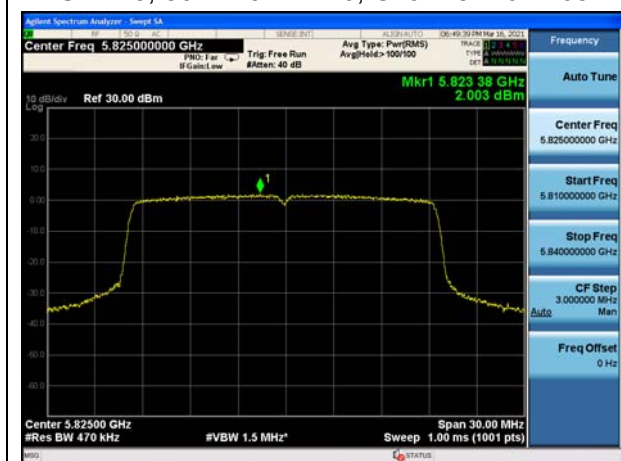


U-NII-3, 802.11ax HE40, Channel No.: 159

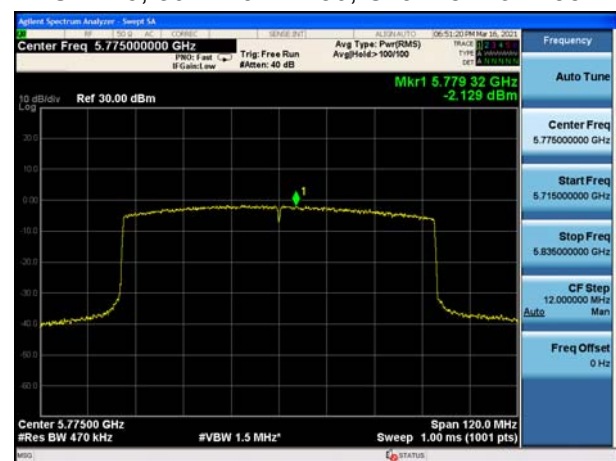




U-NII-3, 802.11ax HE20, Channel No.: 165

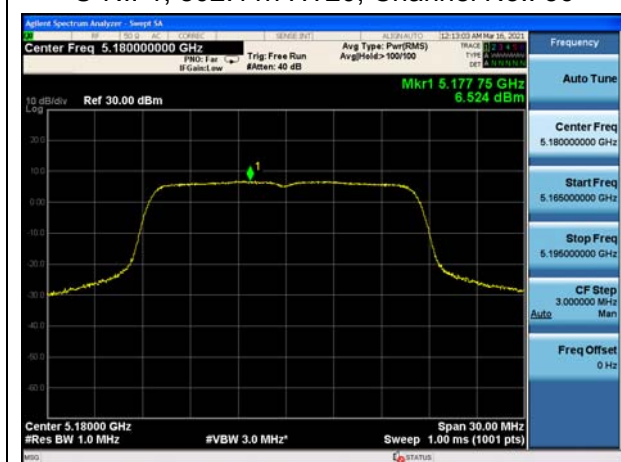


U-NII-3, 802.11ax HE80, Channel No.: 155

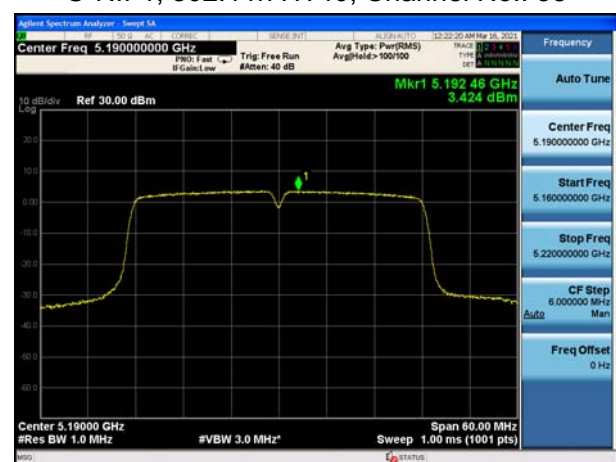


## MIMO Antenna 2

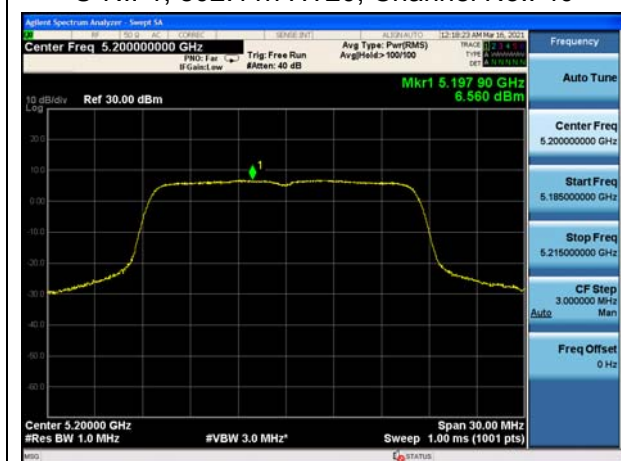
U-NII-1, 802.11n HT20, Channel No.: 36



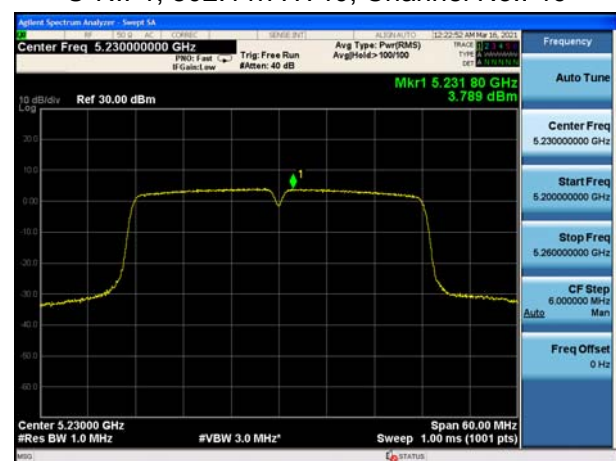
U-NII-1, 802.11n HT40, Channel No.: 38



U-NII-1, 802.11n HT20, Channel No.: 40



U-NII-1, 802.11n HT40, Channel No.: 46



U-NII-1, 802.11n HT20, Channel No.: 48



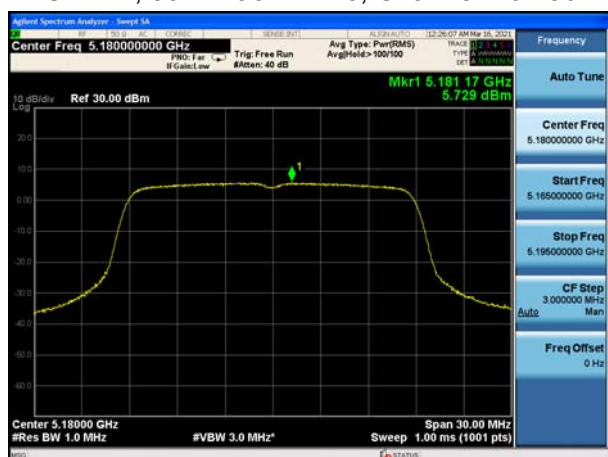
U-NII-1, 802.11ac VHT40, Channel No.: 38



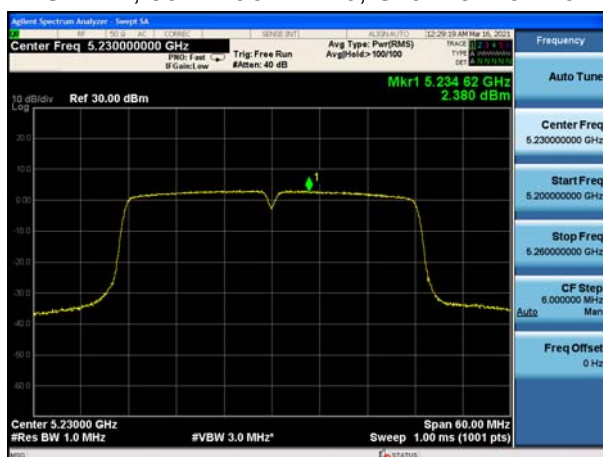




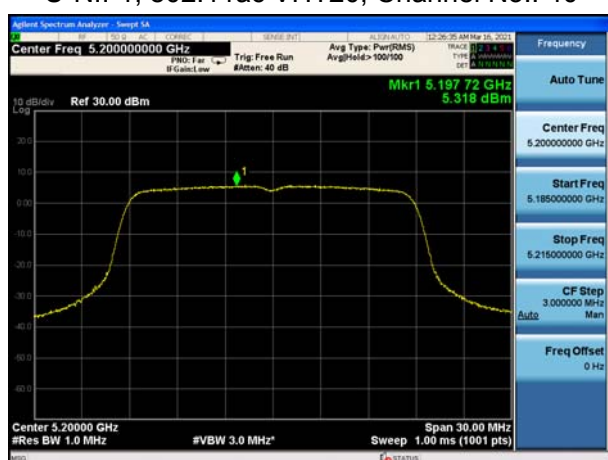
U-NII-1, 802.11ac VHT20, Channel No.: 36



U-NII-1, 802.11ac VHT40, Channel No.: 46



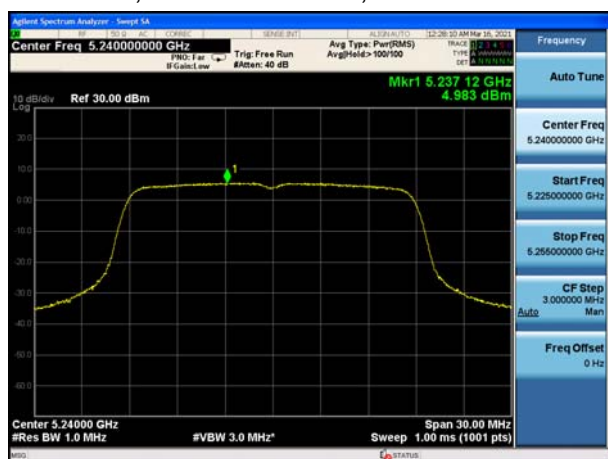
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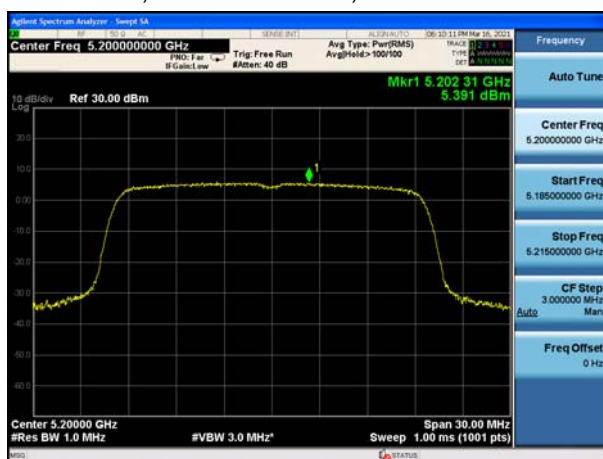
U-NII-1, 802.11ax HE20, Channel No.: 36



U-NII-1, 802.11ac VHT20, Channel No.: 48

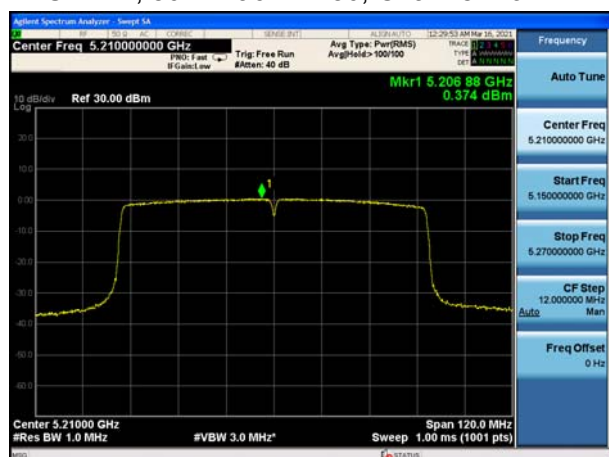


U-NII-1, 802.11ax HE20, Channel No.: 40

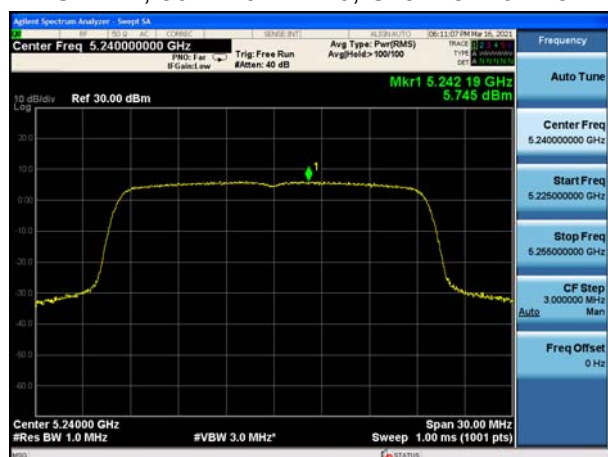




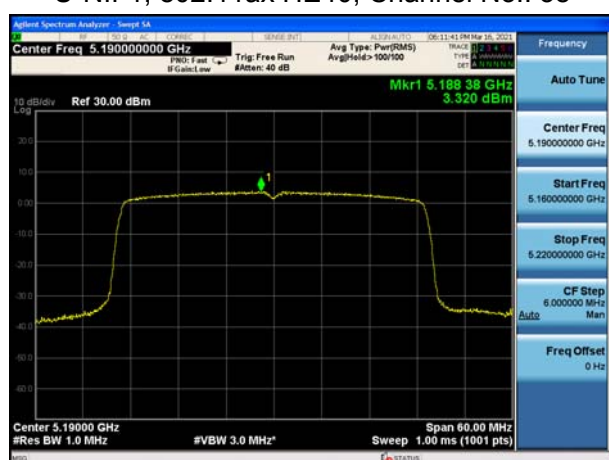
U-NII-1, 802.11ac VHT80, Channel No.: 42



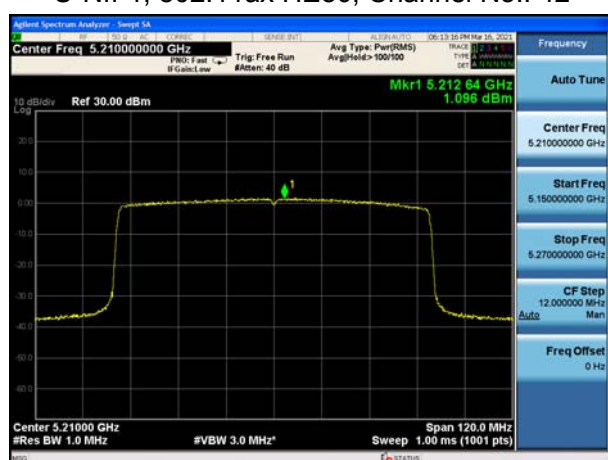
U-NII-1, 802.11ax HE20, Channel No.: 48



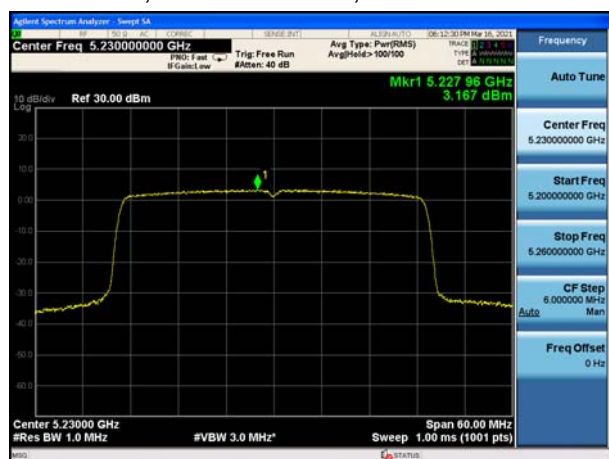
U-NII-1, 802.11ax HE40, Channel No.: 38



U-NII-1, 802.11ax HE80, Channel No.: 42

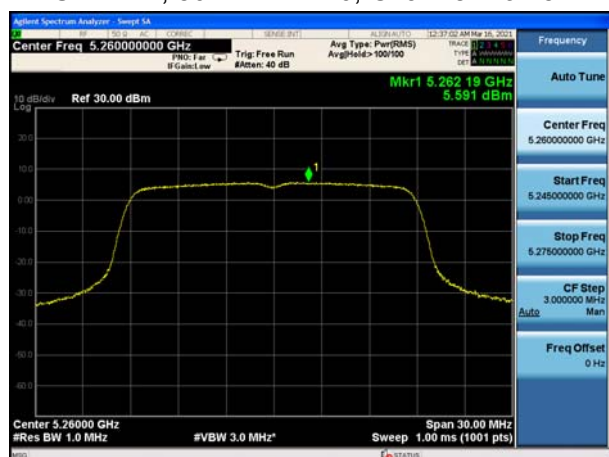


U-NII-1, 802.11ax HE40, Channel No.: 46

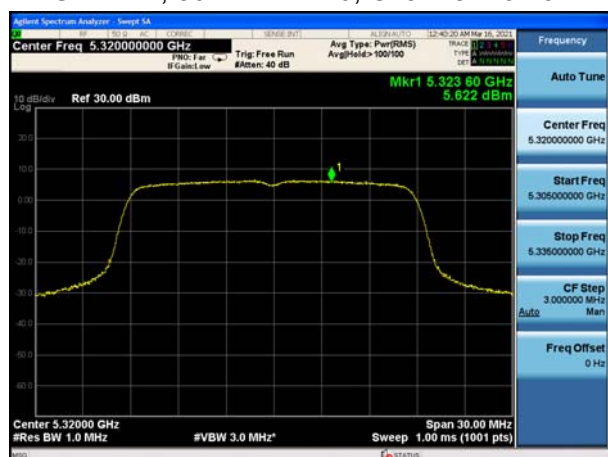




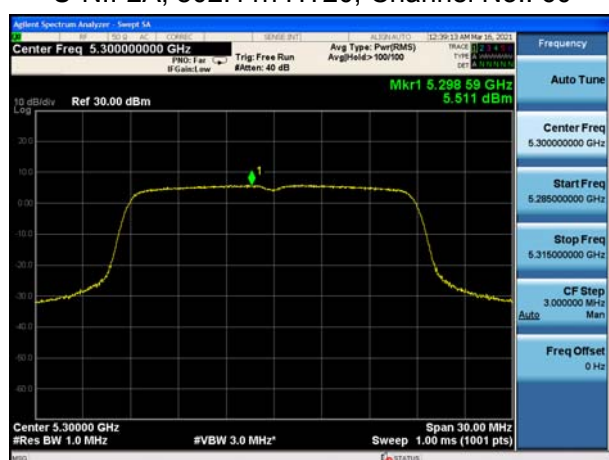
U-NII-2A, 802.11n HT20, Channel No.: 52



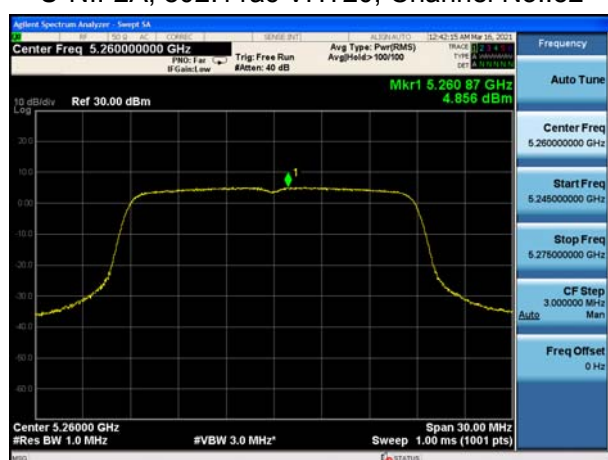
U-NII-2A, 802.11n HT20, Channel No.: 64



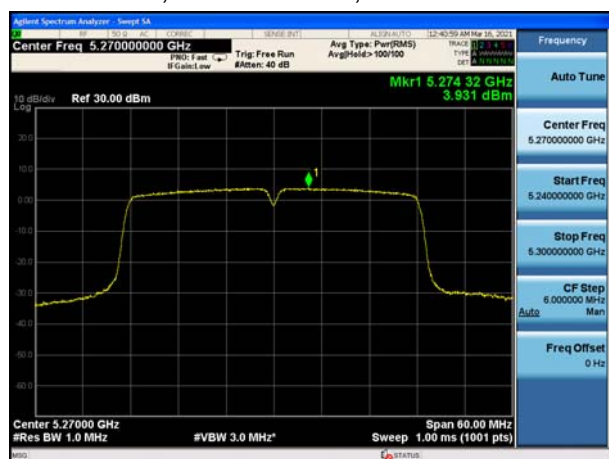
U-NII-2A, 802.11n HT20, Channel No.: 60



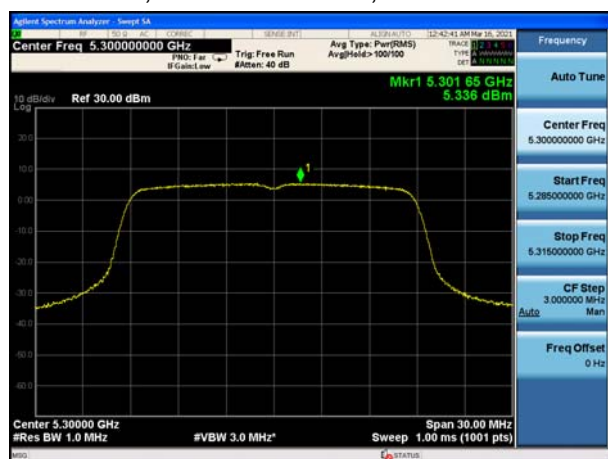
U-NII-2A, 802.11ac VHT20, Channel No.: 52



U-NII-2A, 802.11n HT40, Channel No.: 54

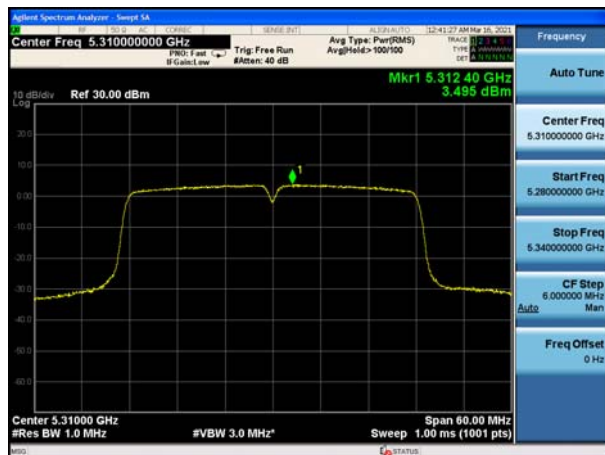


U-NII-2A, 802.11ac VHT20, Channel No.: 60

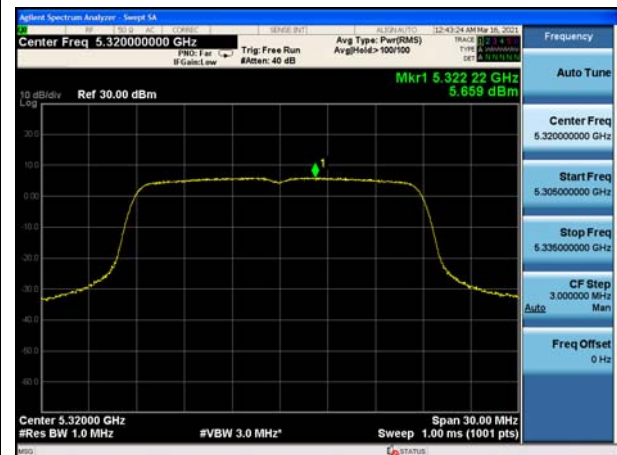




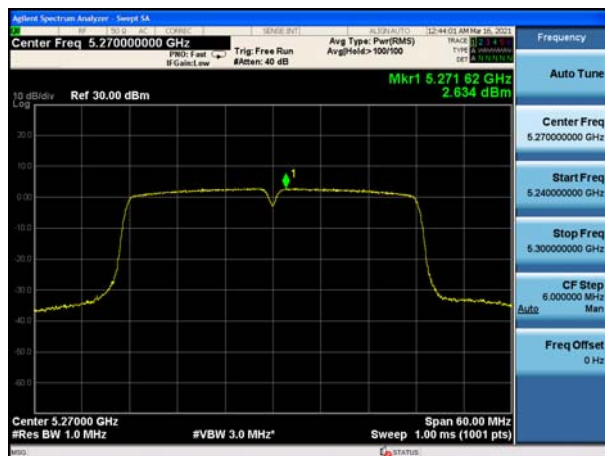
U-NII-2A, 802.11n HT40, Channel No.: 62



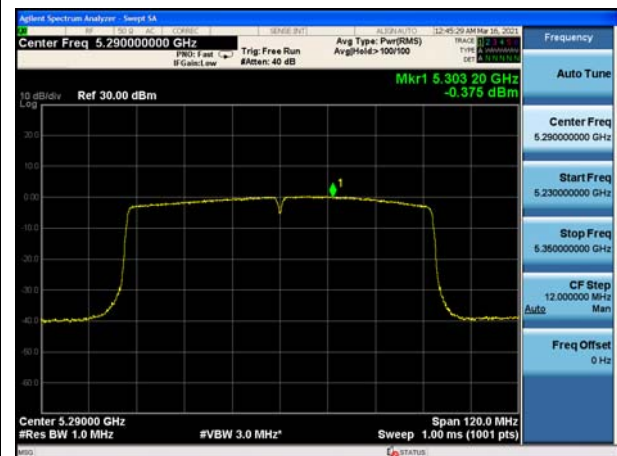
U-NII-2A, 802.11ac VHT20, Channel No.: 64



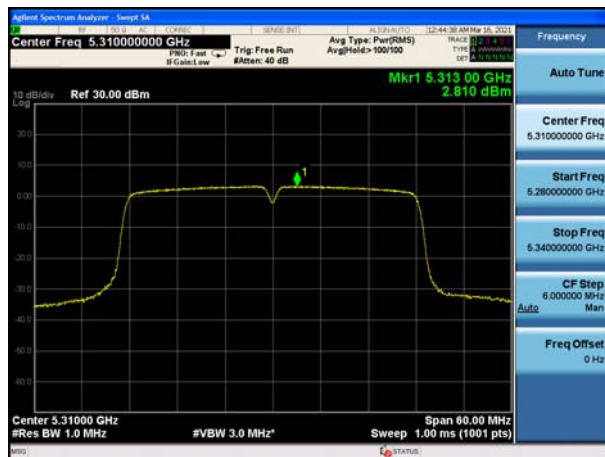
U-NII-2A, 802.11ac VHT40, Channel No.: 54



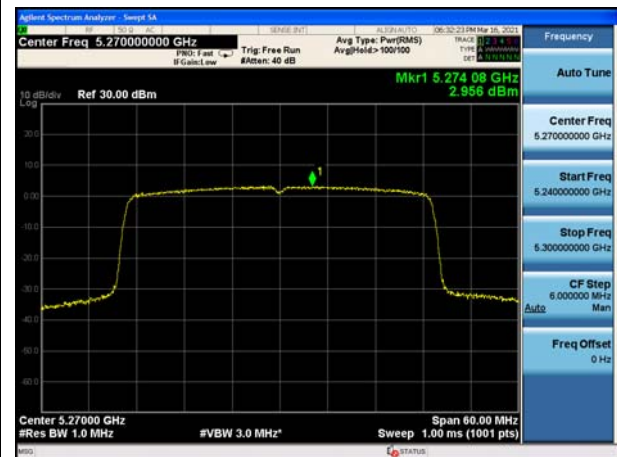
U-NII-2A, 802.11ac VHT80, Channel No.: 58



U-NII-2A, 802.11ac VHT40, Channel No.: 62

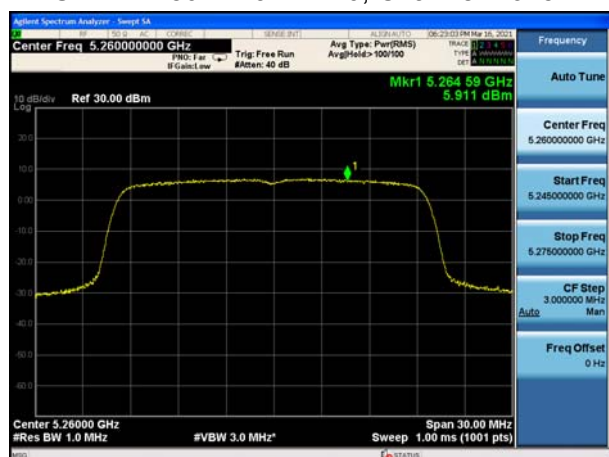


U-NII-2A, 802.11ax HE40, Channel No.: 54

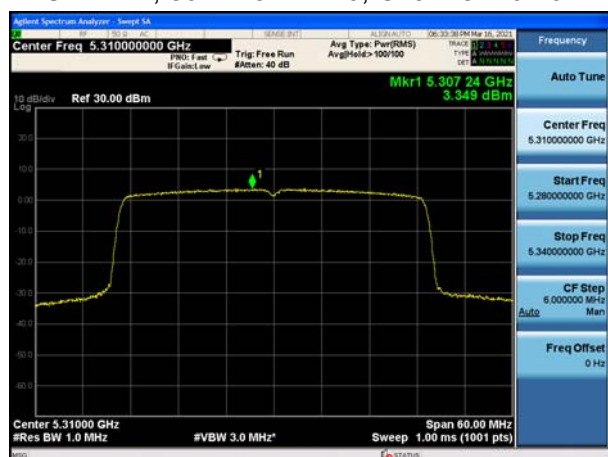




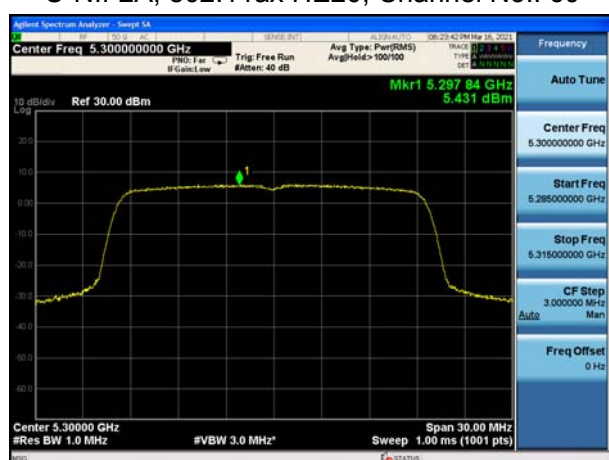
U-NII-2A 802.11ax HE20, Channel No.:52



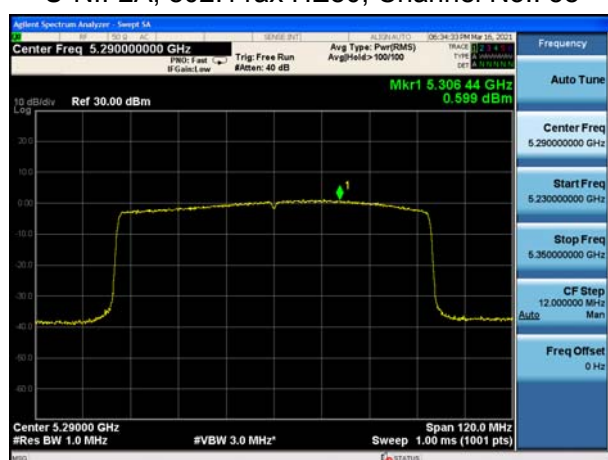
U-NII-2A, 802.11ax HE40, Channel No.: 62



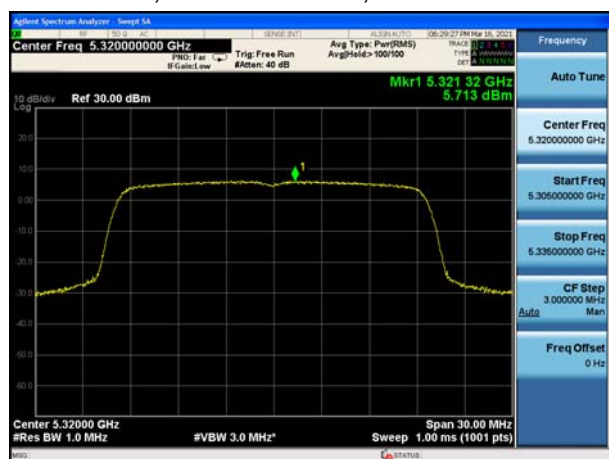
U-NII-2A, 802.11ax HE20, Channel No.: 60



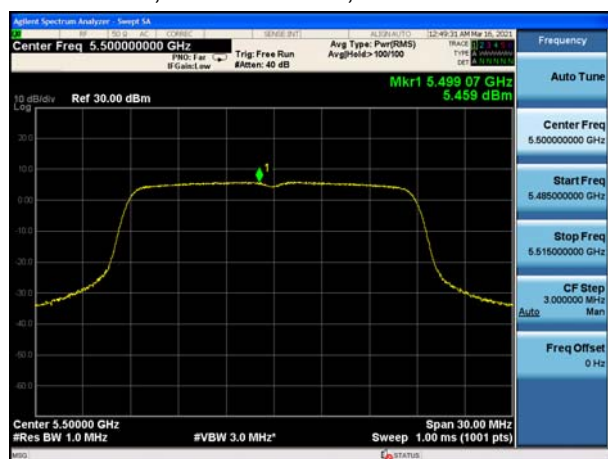
U-NII-2A, 802.11ax HE80, Channel No.: 58



U-NII-2A, 802.11ax HE20, Channel No.: 64

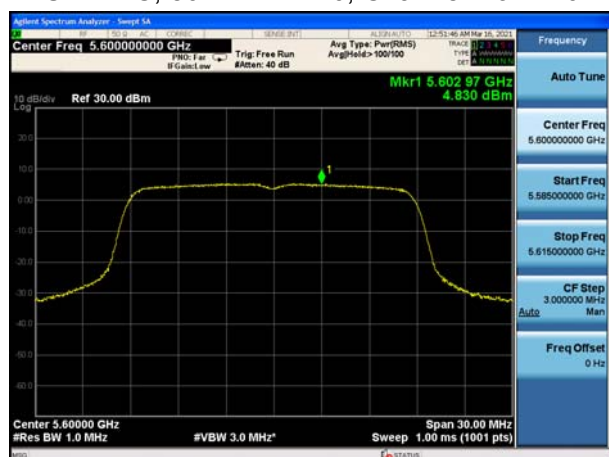


U-NII-2C, 802.11n HT20, Channel No.: 100





U-NII-2C, 802.11n HT20, Channel No.: 120



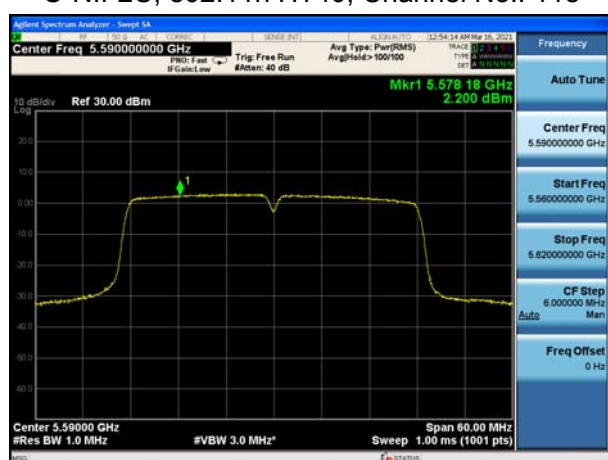
U-NII-2C, 802.11n HT40, Channel No.: 102



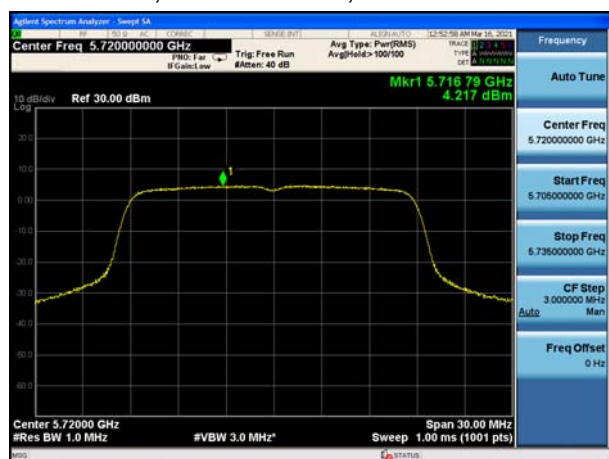
U-NII-2C, 802.11n HT20, Channel No.: 140



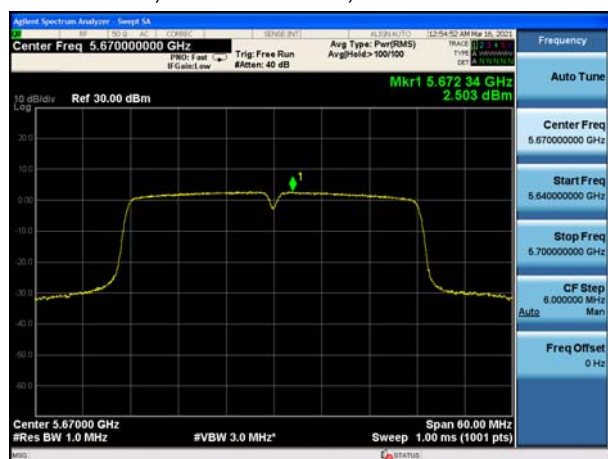
U-NII-2C, 802.11n HT40, Channel No.: 118



U-NII-2C, 802.11n HT20, Channel No.: 144

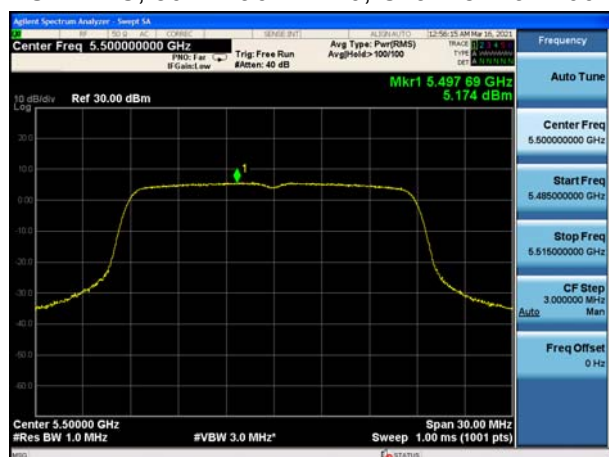


U-NII-2C, 802.11n HT40, Channel No.: 134

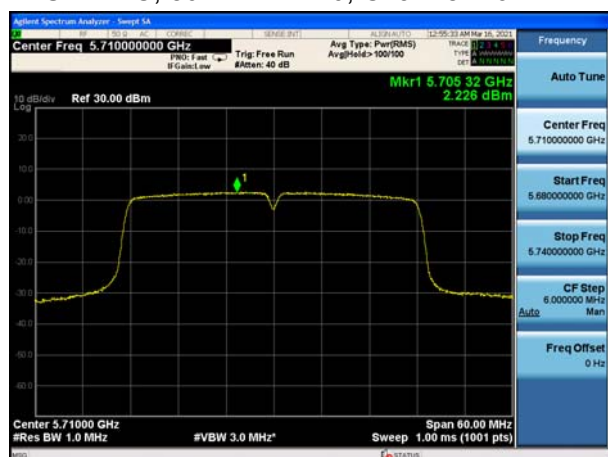




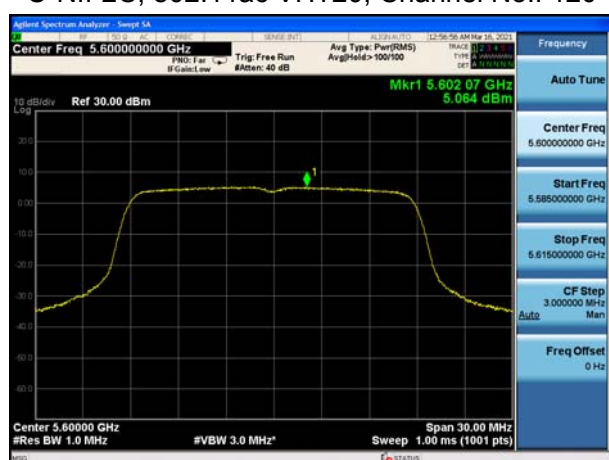
U-NII-2C, 802.11ac VHT20, Channel No.: 100



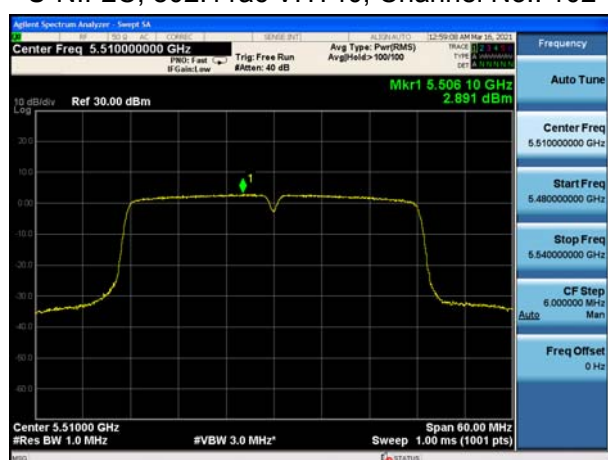
U-NII-2C, 802.11n HT40, Channel No.: 142



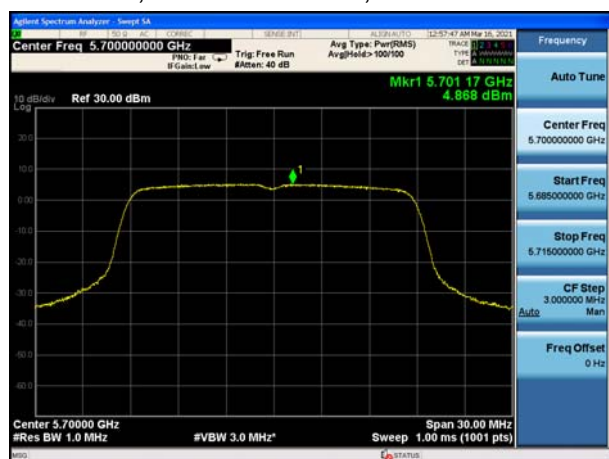
U-NII-2C, 802.11ac VHT20, Channel No.: 120



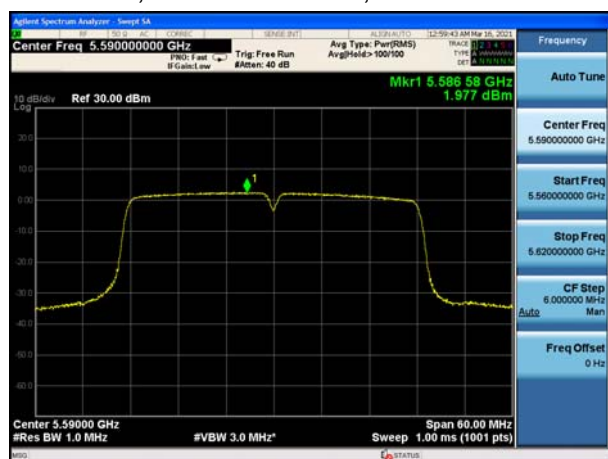
U-NII-2C, 802.11ac VHT40, Channel No.: 102



U-NII-2C, 802.11ac VHT20, Channel No.: 140

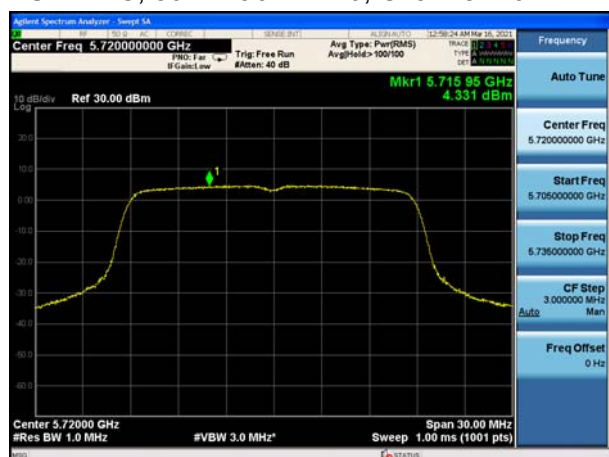


U-NII-2C, 802.11ac VHT40, Channel No.: 118

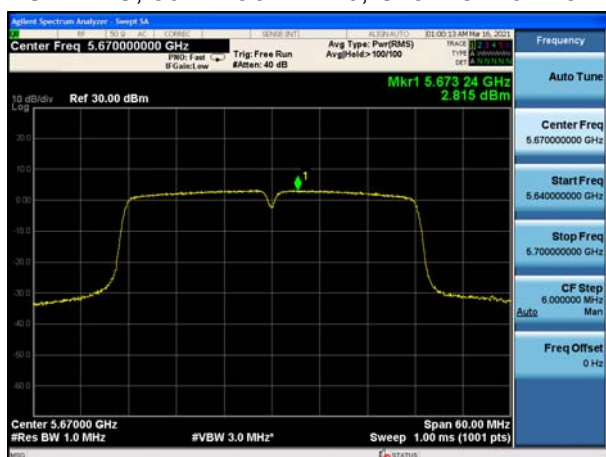




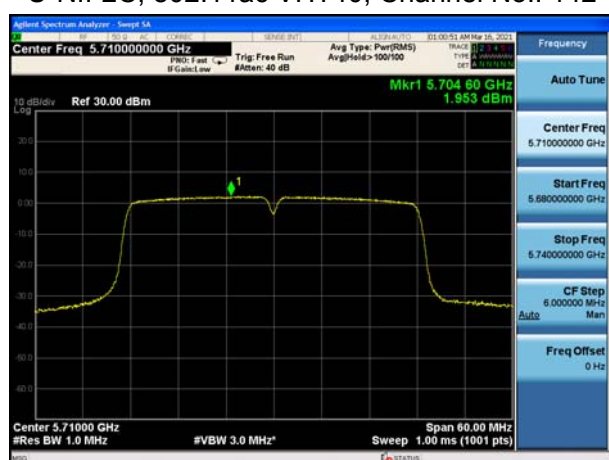
U-NII-2C, 802.11ac VHT20, Channel No.: 144



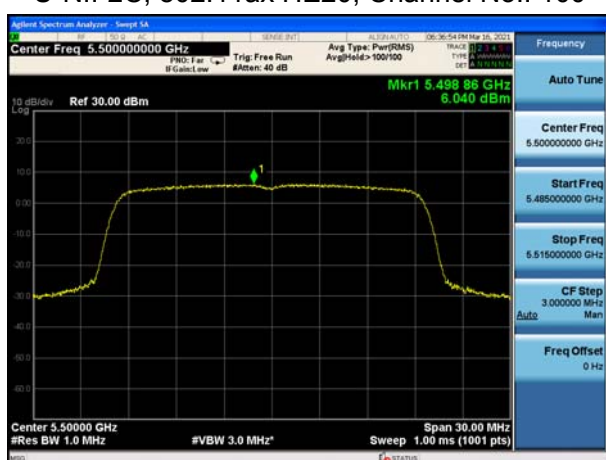
U-NII-2C, 802.11ac VHT40, Channel No.: 134



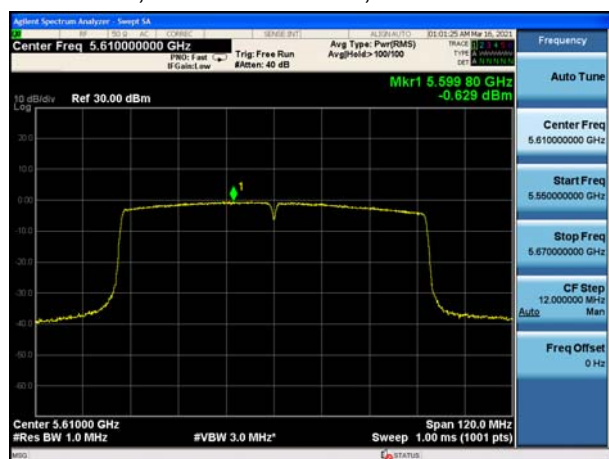
U-NII-2C, 802.11ac VHT40, Channel No.: 142



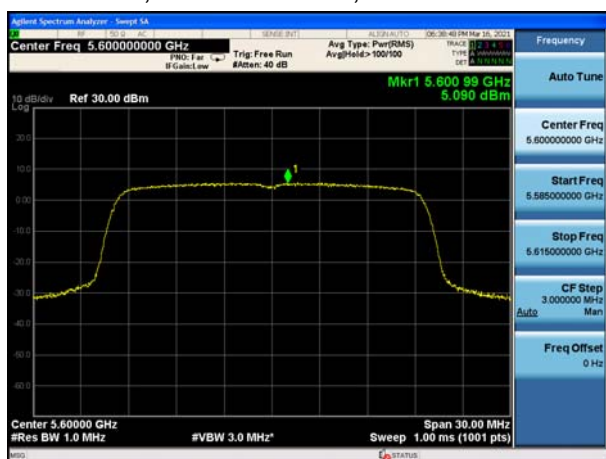
U-NII-2C, 802.11ax HE20, Channel No.: 100



U-NII-2C, 802.11ac VHT80, Channel No.: 122

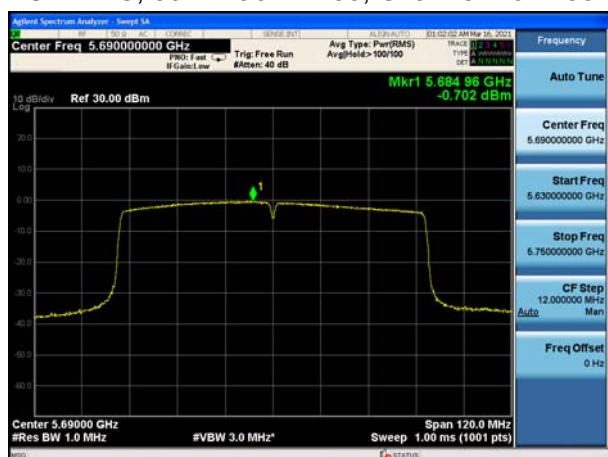


U-NII-2C, 802.11ax HE20, Channel No.: 120





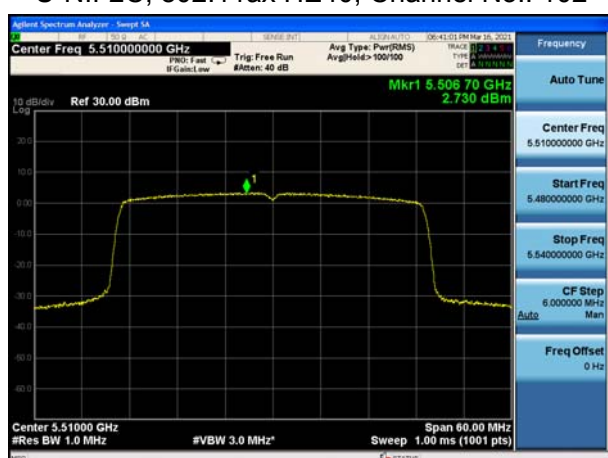
U-NII-2C, 802.11ac VHT80, Channel No.: 138



U-NII-2C, 802.11ax HE20, Channel No.: 140



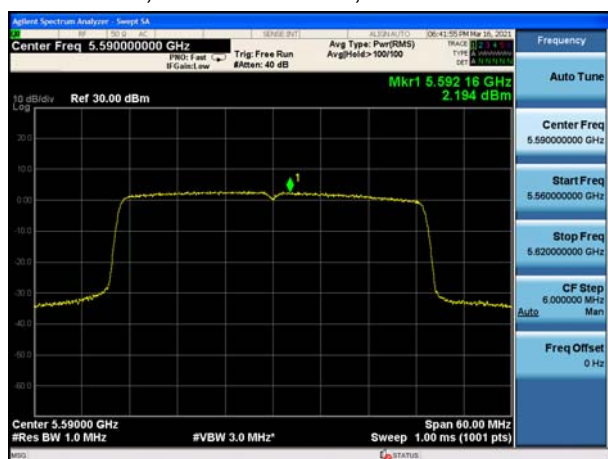
U-NII-2C, 802.11ax HE40, Channel No.: 102



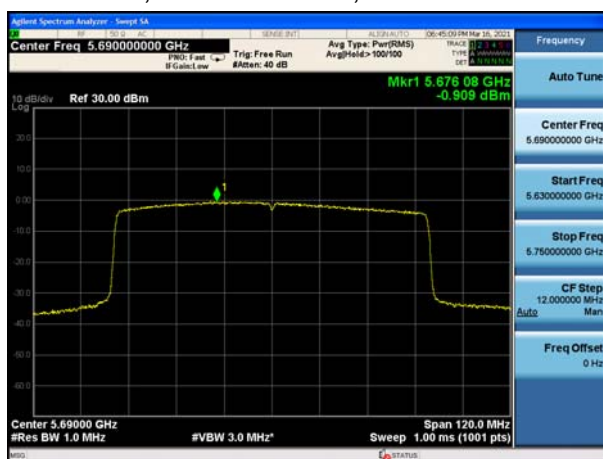
U-NII-2C, 802.11ax HE20, Channel No.: 144



U-NII-2C, 802.11ax HE40, Channel No.: 118

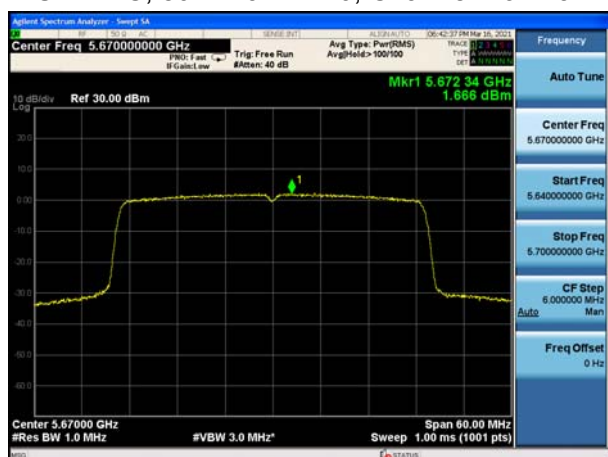


U-NII-2C, 802.11ax HE80, Channel No.: 106

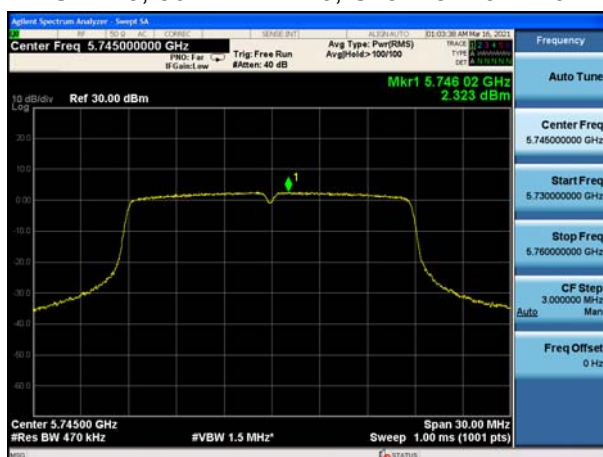




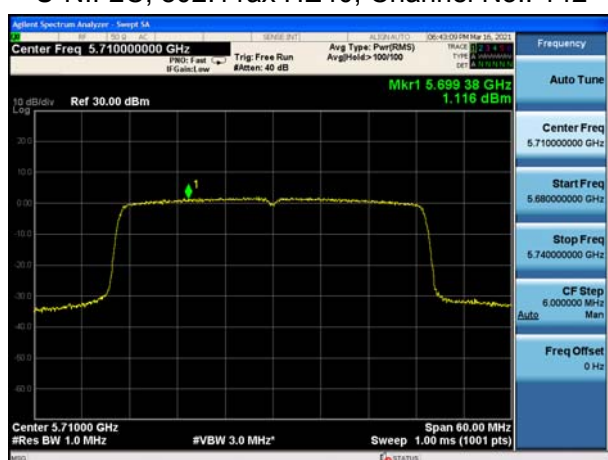
U-NII-2C, 802.11ax HE40, Channel No.: 134



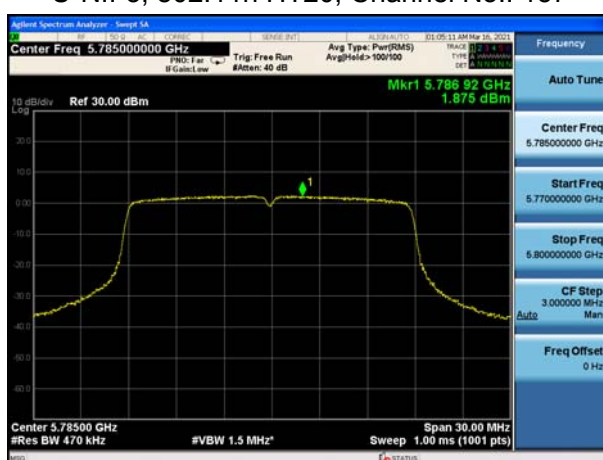
U-NII-3, 802.11n HT20, Channel No.: 149



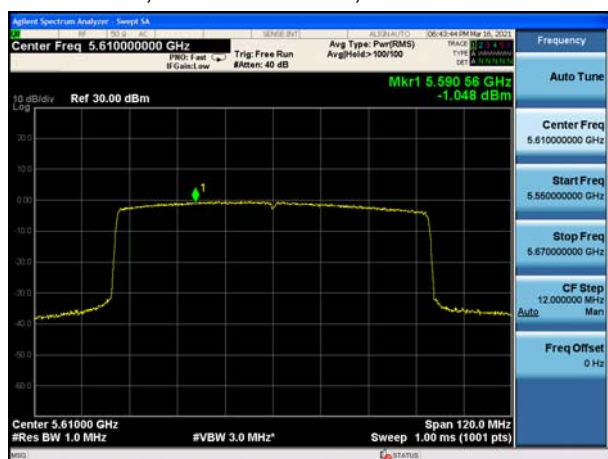
U-NII-2C, 802.11ax HE40, Channel No.: 142



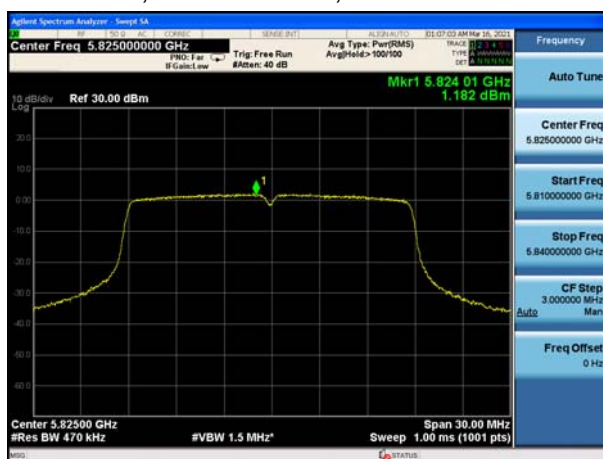
U-NII-3, 802.11n HT20, Channel No.: 157



U-NII-2C, 802.11ax HE80, Channel No.: 122

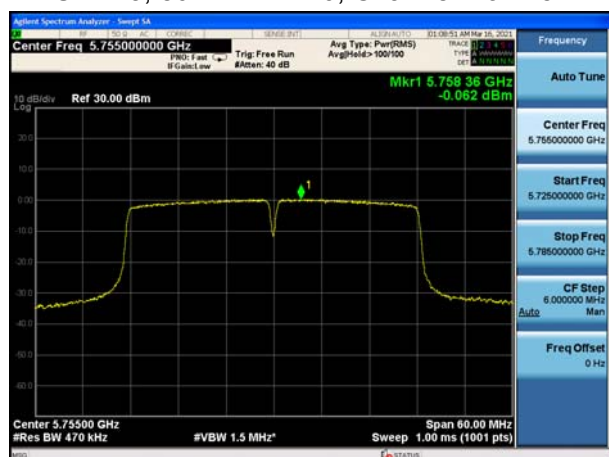


U-NII-3, 802.11n HT20, Channel No.: 165

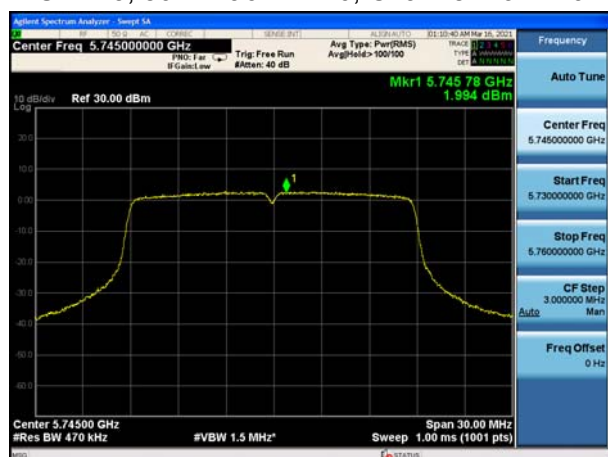




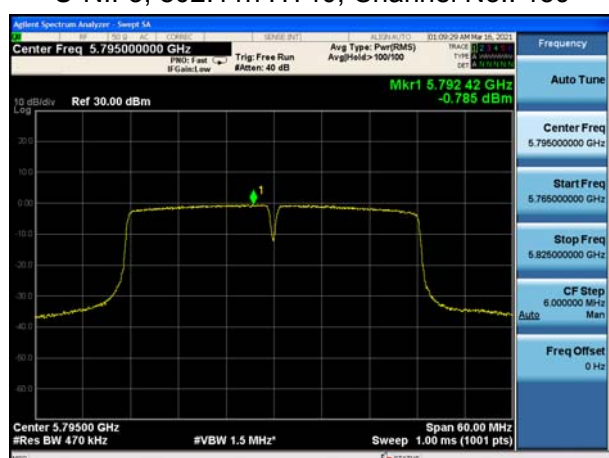
U-NII-3, 802.11n HT40, Channel No.: 151



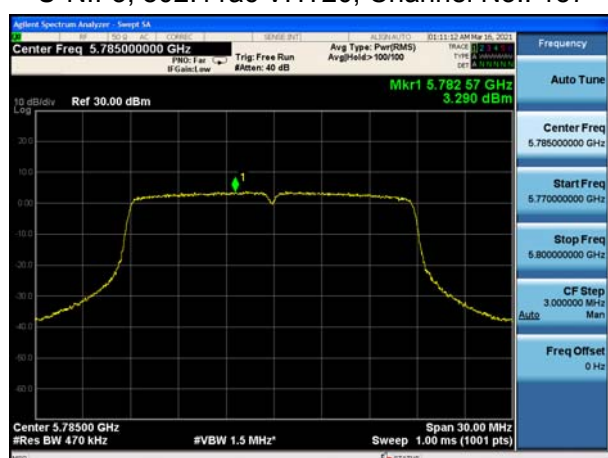
U-NII-3, 802.11ac VHT20, Channel No.: 149



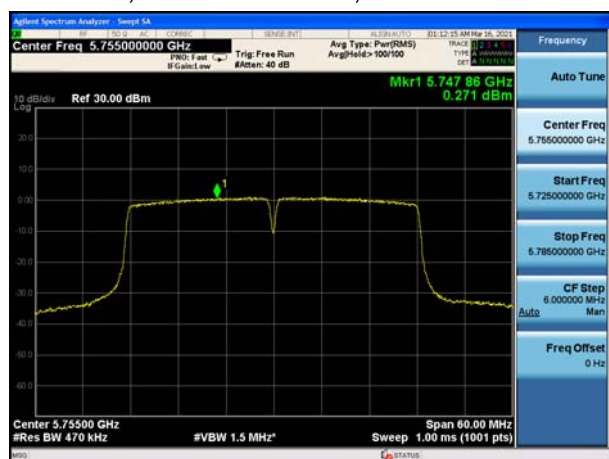
U-NII-3, 802.11n HT40, Channel No.: 159



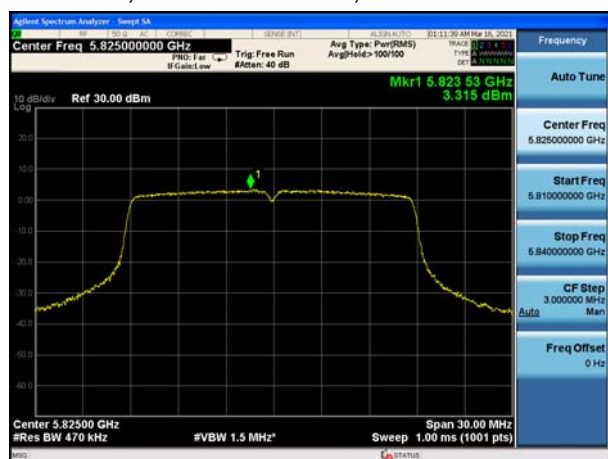
U-NII-3, 802.11ac VHT20, Channel No.: 157



U-NII-3, 802.11ac VHT40, Channel No.: 151

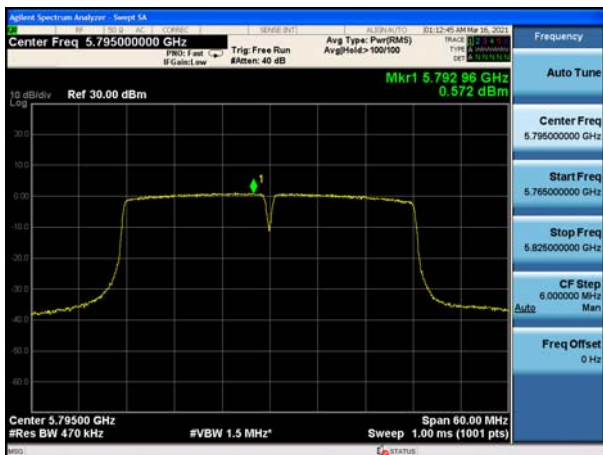


U-NII-3, 802.11ac VHT20, Channel No.: 165

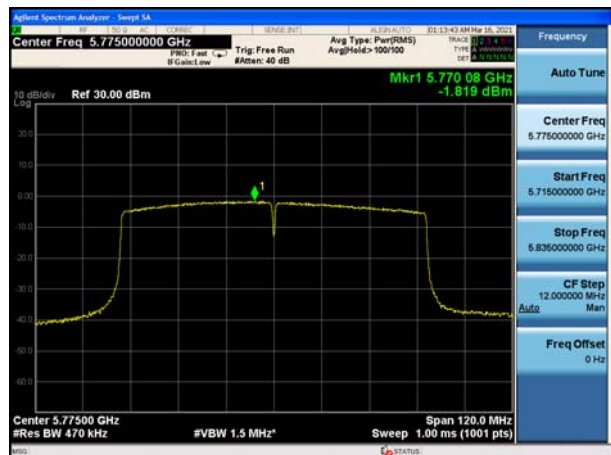




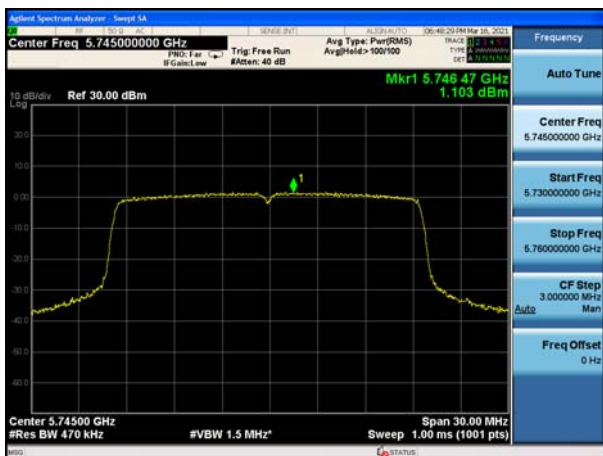
U-NII-3, 802.11ac VHT40, Channel No.: 159



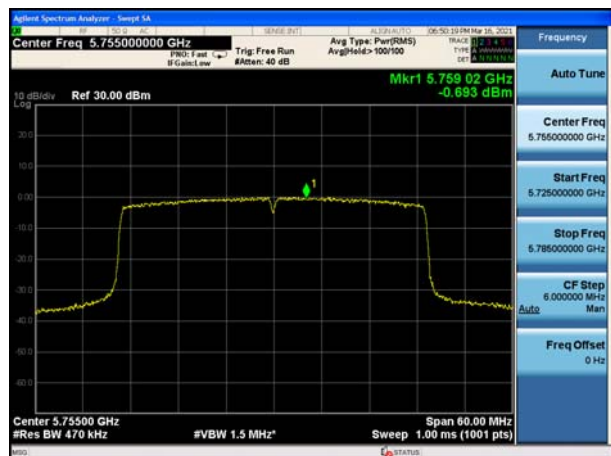
U-NII-3, 802.11ac VHT80, Channel No.: 155



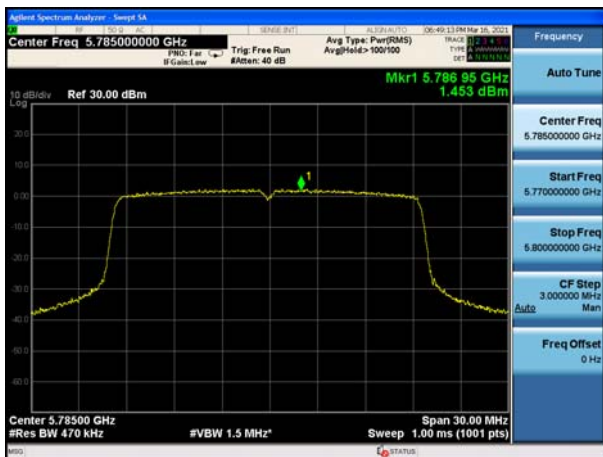
U-NII-3, 802.11ax HE20, Channel No.: 149



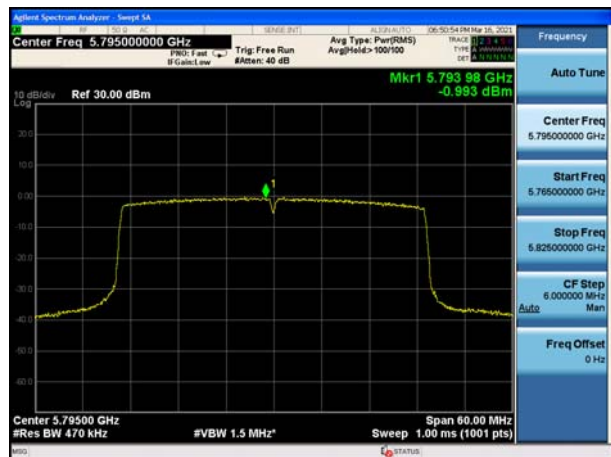
U-NII-3, 802.11ax HE40, Channel No.: 151



U-NII-3, 802.11ax HE20, Channel No.: 157

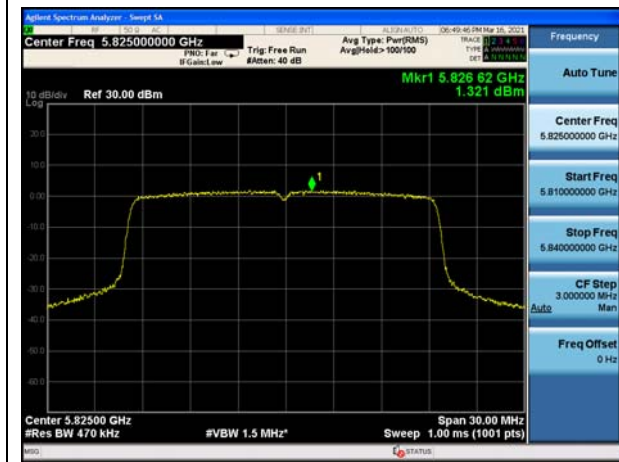


U-NII-3, 802.11ax HE40, Channel No.: 159

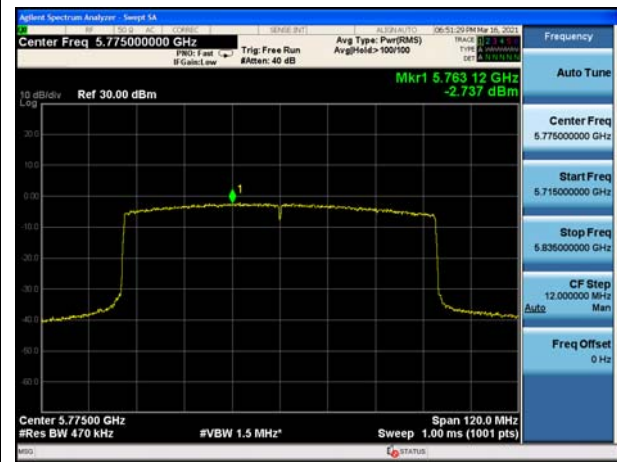




U-NII-3, 802.11ax HE20, Channel No.: 165



U-NII-3, 802.11ax HE80, Channel No.: 155



## 5.5. Unwanted Emission

### Ambient condition

| Temperature | Relative humidity | Pressure |
|-------------|-------------------|----------|
| 23°C ~25°C  | 45%~50%           | 101.5kPa |

### Method of Measurement

The test set-up was made in accordance to the general provisions of ANSI C63.10. The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The test was performed at the distance of 3 m between the EUT and the receiving antenna. The radiated emissions measurements were made in a typical installation configuration.

Sweep the whole frequency band range from 9kHz to the 10th harmonic of the carrier, and the emissions less than 20 dB below the permissible value are reported.

During the test, the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turntable shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna. The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing.

Set the spectrum analyzer in the following:

9kHz~150 kHz

RBW=200Hz, VBW=1kHz/ Sweep=AUTO

150 kHz~30MHz

RBW=9KHz, VBW=30KHz,/ Sweep=AUTO

Below 1GHz

RBW=100kHz / VBW=300kHz / Sweep=AUTO

a) Peak emission levels are measured by setting the instrument as follows:

Above 1GHz

PEAK: RBW=1MHz VBW=3MHz/ Sweep=AUTO

b) Average emission levels are measured by setting the instrument as follows:

Above 1GHz

AVERAGE: RBW=1MHz / VBW=3MHz / Sweep=AUTO

c) Detector: The measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.)

e) Sweep time = auto.

f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of 1 / D, where D is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific



emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 100 traces shall be averaged.)

g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:

1) If power averaging (rms) mode was used in the preceding step e), then the correction factor is  $[10 \log (1 / D)]$ , where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB shall be added to the measured emission levels.

2) If linear voltage averaging mode was used in the preceding step e), then the correction factor is  $[20 \log (1 / D)]$ , where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels.

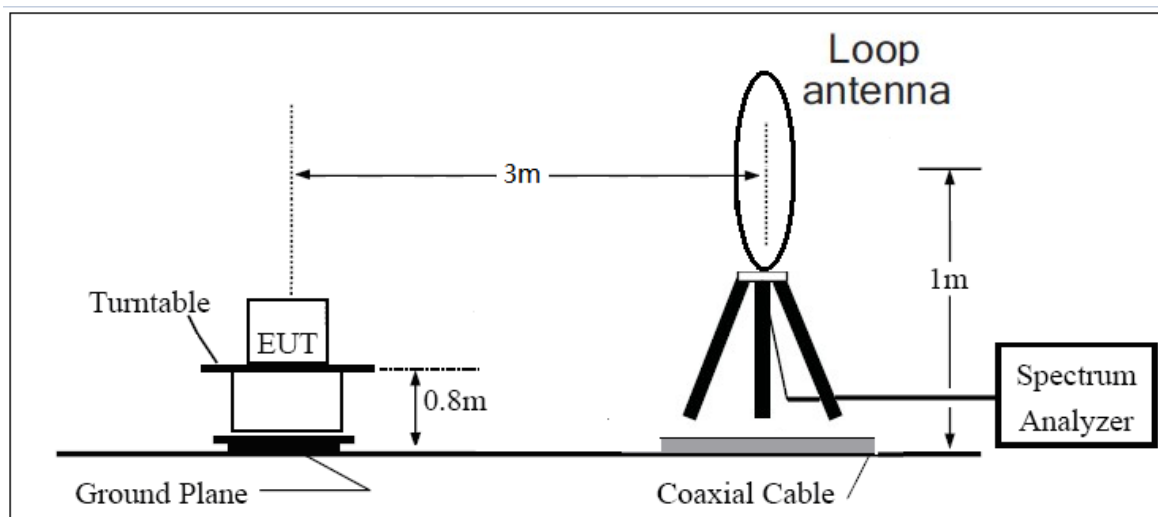
3) If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission.

Reduce the video bandwidth until no significant variations in the displayed signal are observed in subsequent traces, provided the video bandwidth is no less than 1 Hz. For regulatory requirements that specify averaging only over the transmit duration (e.g., digital transmission system [DTS] and Unlicensed National Information Infrastructure [U-NII]), the video bandwidth shall be greater than  $[1 / (\text{minimum transmitter on time})]$  and no less than 1 Hz.

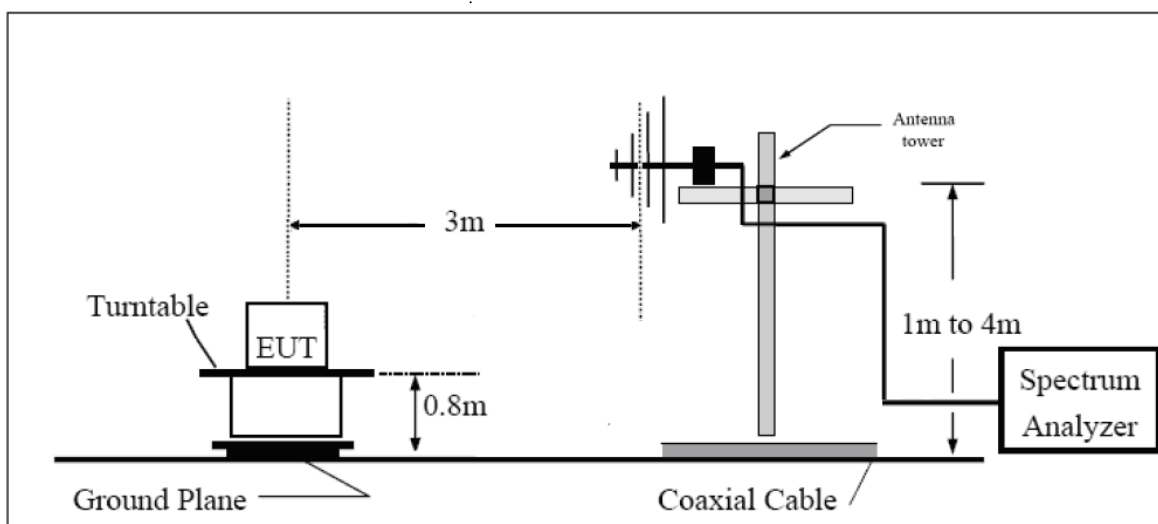
The field strength of spurious emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in stand-up position (Z axis) and the loop antenna is vertical, others antenna are vertical and horizontal.

The test is in transmitting mode.

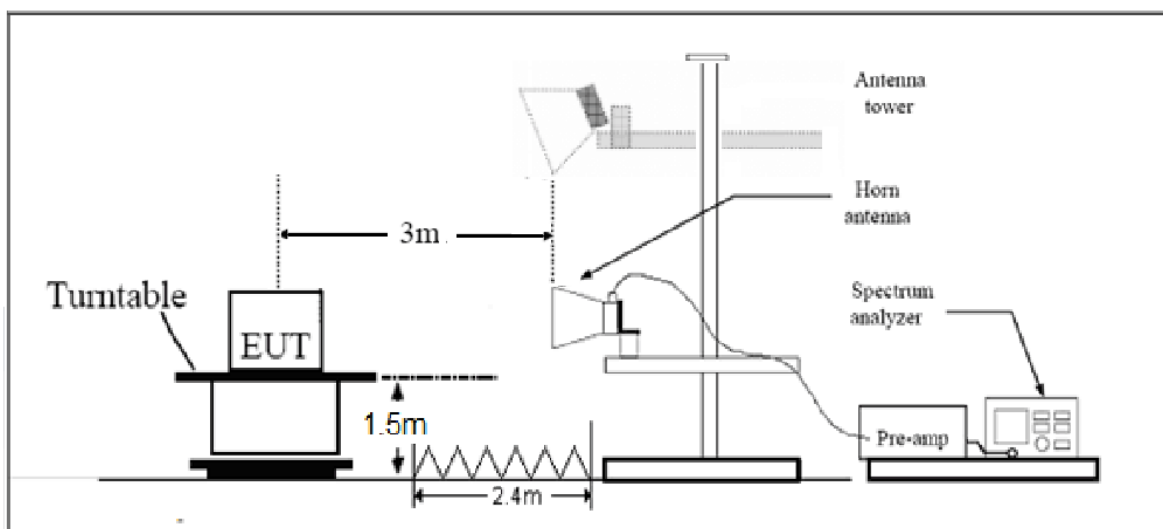
### 9KHz~~~30MHz



### 30MHz~~~ 1GHz



### Above 1GHz



Note: Area side:2.4mX3.6m

**Limits**

- (1) For transmitters operating in the 5725-5850 MHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
- (2) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz(68.2dBμV/m).
- (3) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz(68.2dBμV/m).
- (4) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz(68.2dBμV/m).

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

§1、 $E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] - 20 \log(d[\text{meters}]) + 104.77$ , where E = field strength and

d = distance at which field strength limit is specified in the rules;

§2、 $E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] + 95.2$ , for d = 3 meters

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

| Frequency of emission (MHz) | Field strength(uV/m) | Field strength(dBuV/m) |
|-----------------------------|----------------------|------------------------|
| 0.009–0.490                 | 2400/F(kHz)          | /                      |
| 0.490–1.705                 | 24000/F(kHz)         | /                      |
| 1.705–30.0                  | 30                   | /                      |
| 30-88                       | 100                  | 40                     |
| 88-216                      | 150                  | 43.5                   |
| 216-960                     | 200                  | 46                     |
| Above960                    | 500                  | 54                     |

| MHz                        | MHz                   | MHz             | GHz              |
|----------------------------|-----------------------|-----------------|------------------|
| 0.090 - 0.110              | 16.42 - 16.423        | 399.9 - 410     | 4.5 - 5.15       |
| <sup>1</sup> 0.495 - 0.505 | 16.69475 - 16.69525   | 608 - 614       | 5.35 - 5.46      |
| 2.1735 - 2.1905            | 16.80425 - 16.80475   | 960 - 1240      | 7.25 - 7.75      |
| 4.125 - 4.128              | 25.5 - 25.67          | 1300 - 1427     | 8.025 - 8.5      |
| 4.17725 - 4.17775          | 37.5 - 38.25          | 1435 - 1626.5   | 9.0 - 9.2        |
| 4.20725 - 4.20775          | 73 - 74.6             | 1645.5 - 1646.5 | 9.3 - 9.5        |
| 6.215 - 6.218              | 74.8 - 75.2           | 1660 - 1710     | 10.6 - 12.7      |
| 6.26775 - 6.26825          | 108 - 121.94          | 1718.8 - 1722.2 | 13.25 - 13.4     |
| 6.31175 - 6.31225          | 123 - 138             | 2200 - 2300     | 14.47 - 14.5     |
| 8.291 - 8.294              | 149.9 - 150.05        | 2310 - 2390     | 15.35 - 16.2     |
| 8.362 - 8.366              | 156.52475 - 156.52525 | 2483.5 - 2500   | 17.7 - 21.4      |
| 8.37625 - 8.38675          | 156.7 - 156.9         | 2690 - 2900     | 22.01 - 23.12    |
| 8.41425 - 8.41475          | 162.0125 - 167.17     | 3260 - 3267     | 23.6 - 24.0      |
| 12.29 - 12.293             | 167.72 - 173.2        | 3332 - 3339     | 31.2 - 31.8      |
| 12.51975 - 12.52025        | 240 - 285             | 3345.8 - 3358   | 36.43 - 36.5     |
| 12.57675 - 12.57725        | 322 - 335.4           | 3600 - 4400     | ( <sup>2</sup> ) |
| 13.36 - 13.41              |                       |                 |                  |

### Measurement Uncertainty

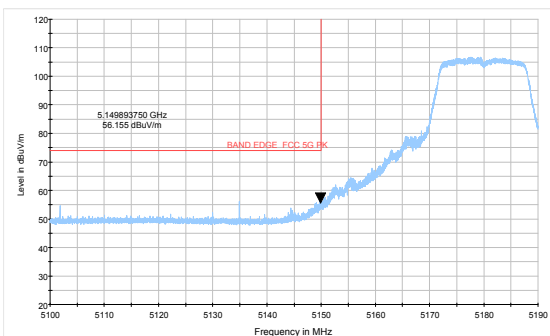
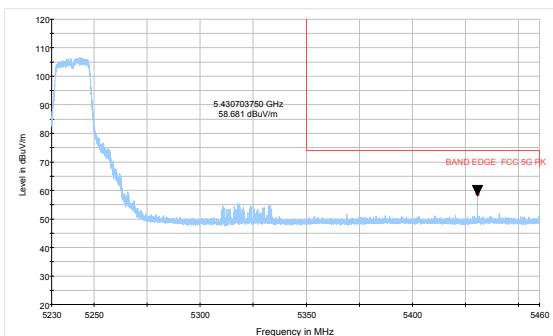
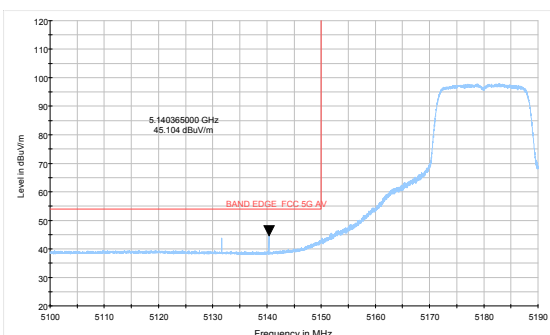
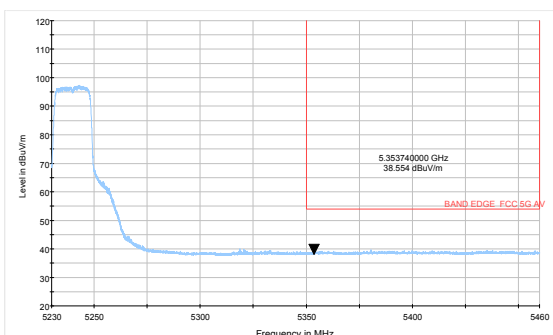
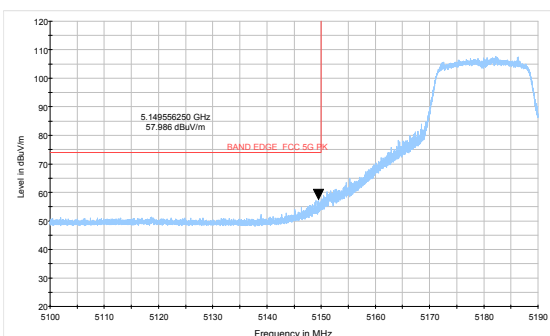
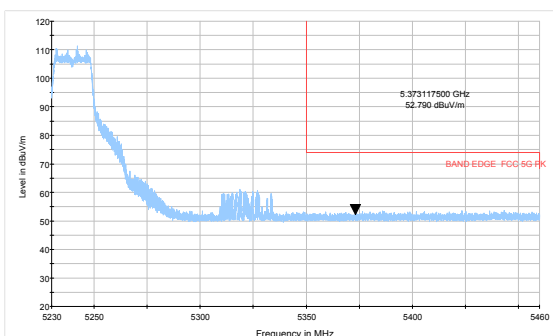
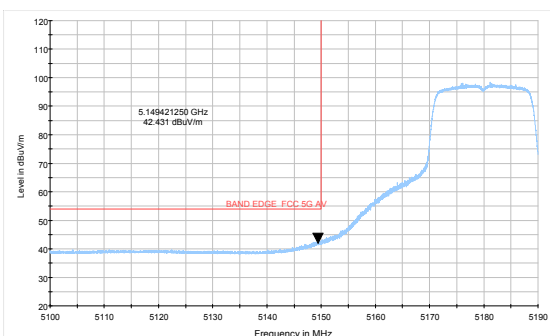
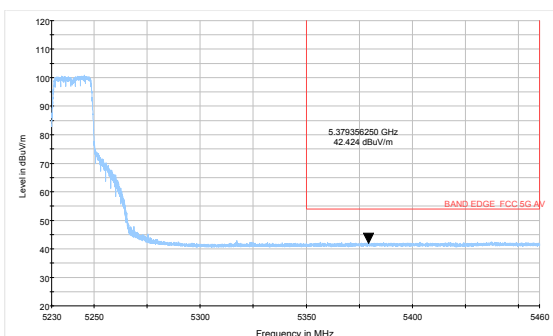
The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor  $k = 1.96$ .

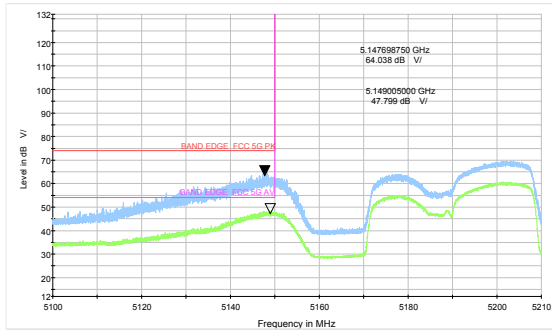
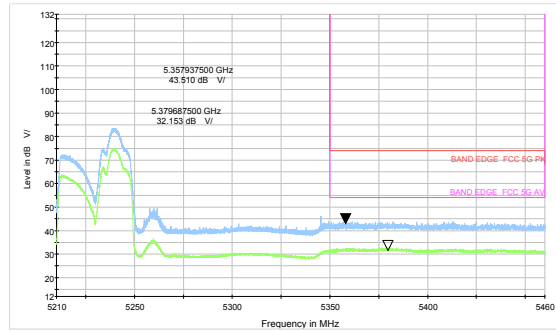
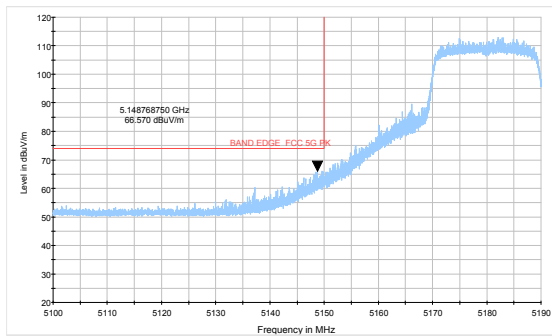
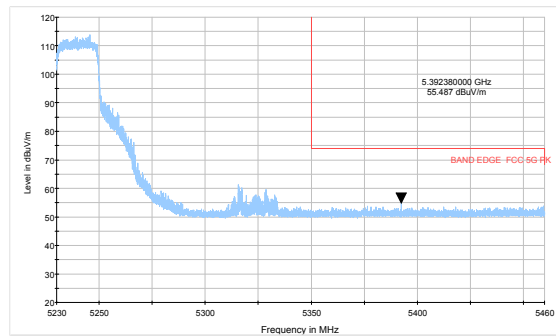
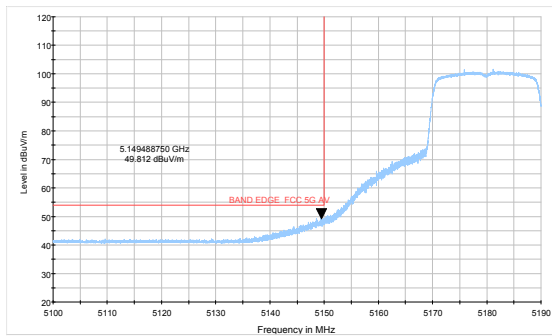
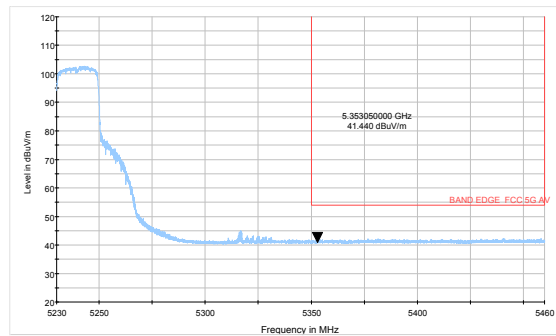
| Frequency     | Uncertainty |
|---------------|-------------|
| 9KHz-30MHz    | 3.55 dB     |
| 30MHz-200MHz  | 4.17 dB     |
| 200MHz-1GHz   | 4.84 dB     |
| 1-18GHz       | 4.35 dB     |
| 18-26.5GHz    | 5.90 dB     |
| 26.5GHz~40GHz | 5.92 dB     |

**Test Results:**

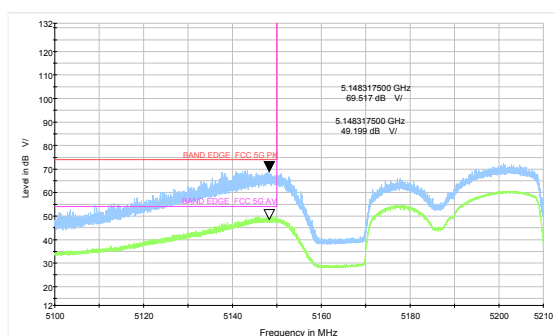
The modulation and bandwidth are similar for 802.11n mode for 20MHz/40MHz and 802.11ac mode for V20MHz/V40MHz, therefore investigated worst case to representative mode in test report.

The signal beyond the limit is carrier.

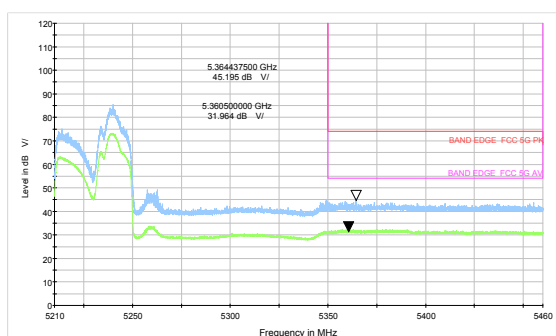
**U-NII-1****802.11a-Channel 36: Peak****802.11a-Channel 48: Peak****802.11a-Channel 36: Average****802.11a-Channel 48: Average****802.11n HT20-Channel 36: Peak****802.11n HT20-Channel 48: Peak****802.11n HT20-Channel 36: Average****802.11n HT20-Channel 48: Average**

**802.11n HT40-Channel 38: Peak & Average****802.11n HT40-Channel 46: Peak & Average****802.11ax HE20-Channel 36: Peak****802.11ax HE20 -Channel 48: Peak****802.11ax HE20-Channel 36: Average****802.11ax HE20 -Channel 48: Average**

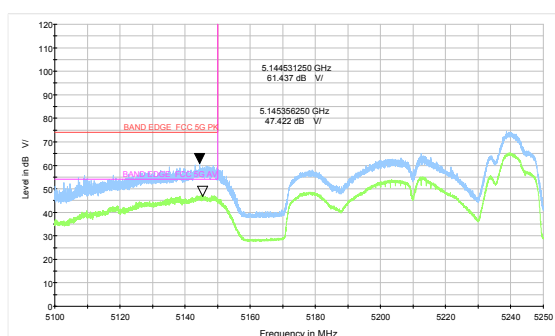
### 802.11ax HE40-Channel 38: Peak & Average



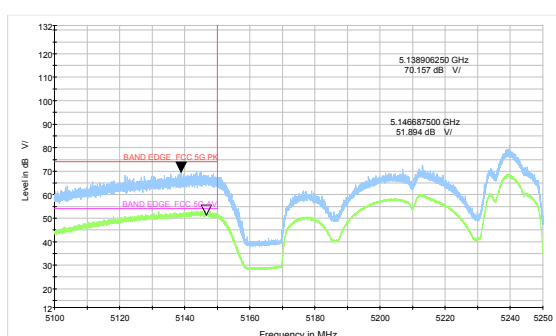
### 802.11ax HE40-Channel 46: Peak & Average



### 802.11ac VHT80 –Channel 42: Peak & Average



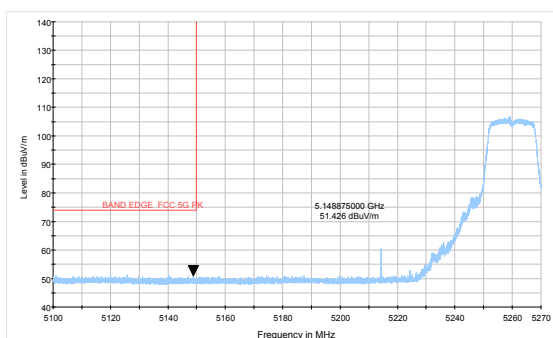
### 802.11ax HE80 –Channel 42: Peak & Average



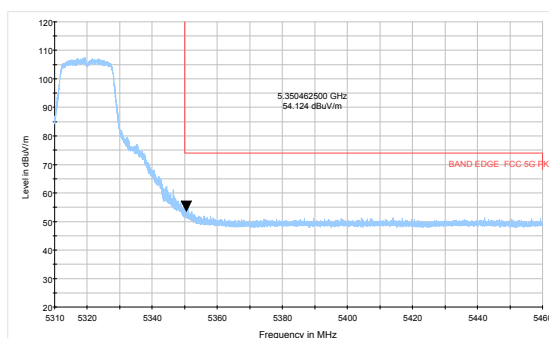


## U-NII-2A

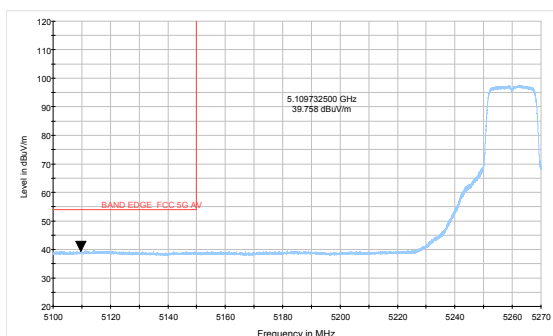
802.11a-Channel 52: Peak



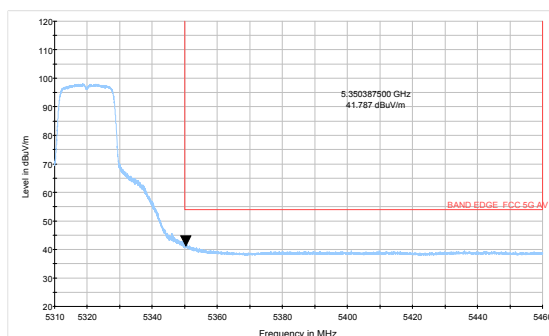
802.11a-Channel 64: Peak



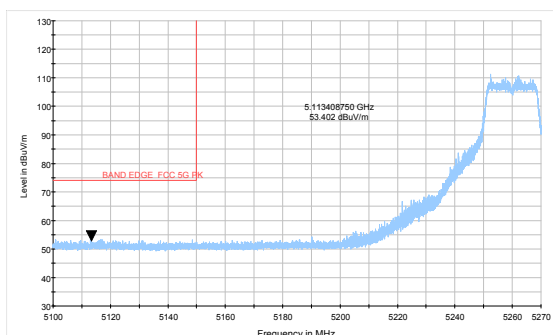
802.11a-Channel 52: Average



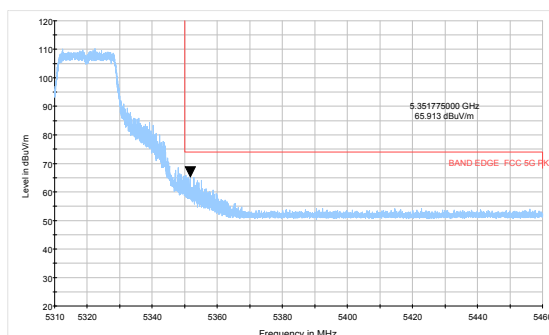
802.11a-Channel 64: Average



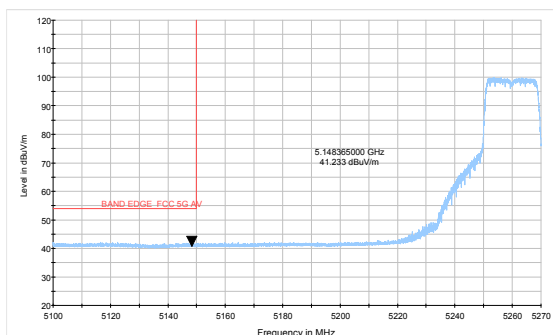
802.11n HT20-Channel 52: Peak



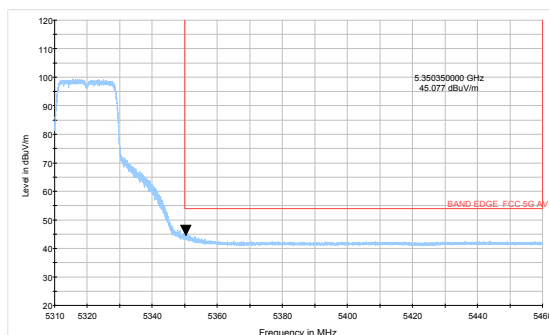
802.11n HT20-Channel 64: Peak



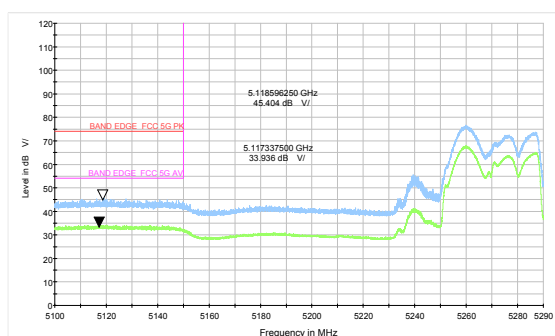
802.11n HT20-Channel 52: Average



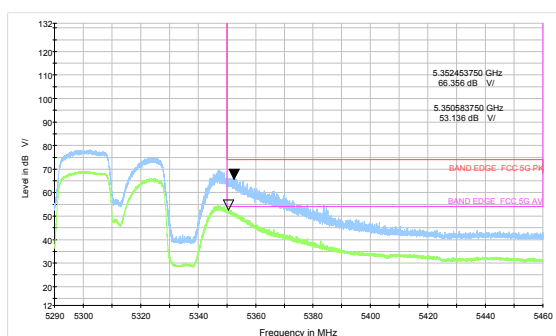
802.11n HT20-Channel 64: Average



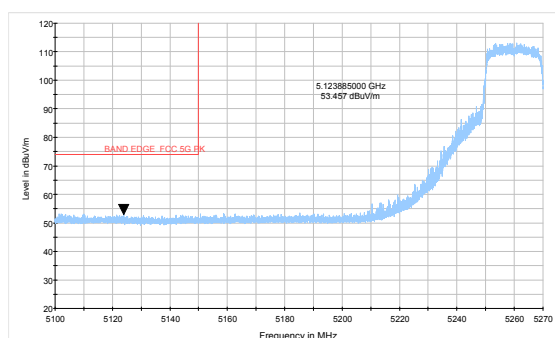
### 802.11n HT40-Channel 54: Peak & Average



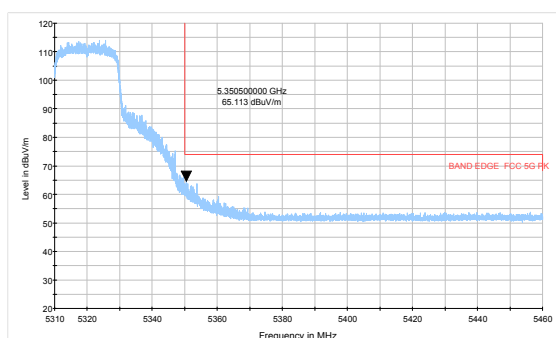
### 802.11n HT40-Channel 62: Peak & Average



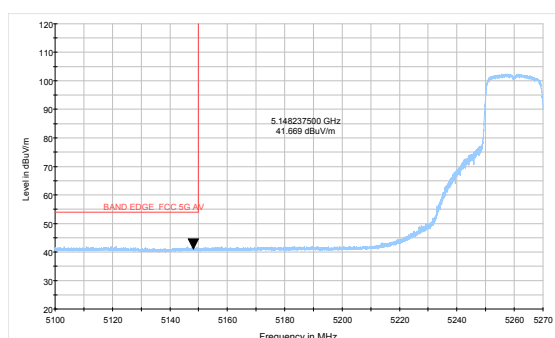
### 802.11ax HE20 -Channel 52: Peak



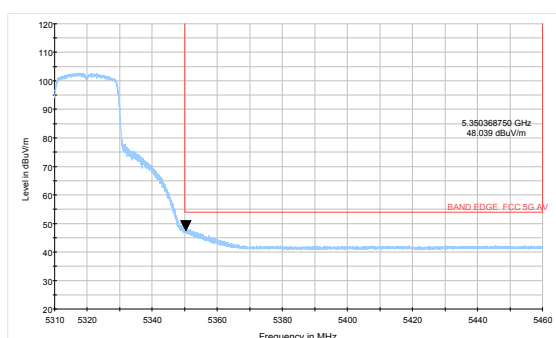
### 802.11ax HE20 -Channel 64: Peak



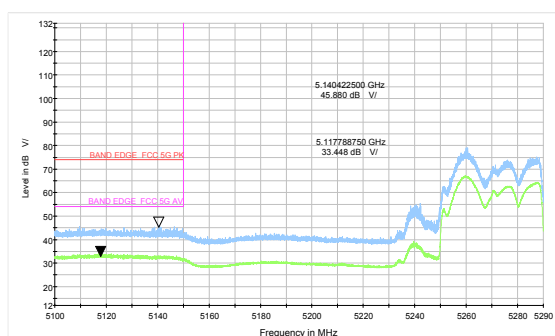
### 802.11ax HE20-Channel 52: Average



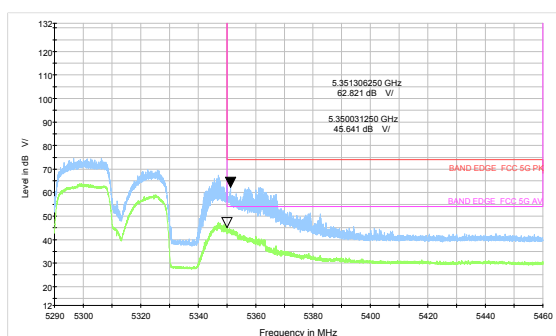
### 802.11ax HE20 -Channel 64: Average



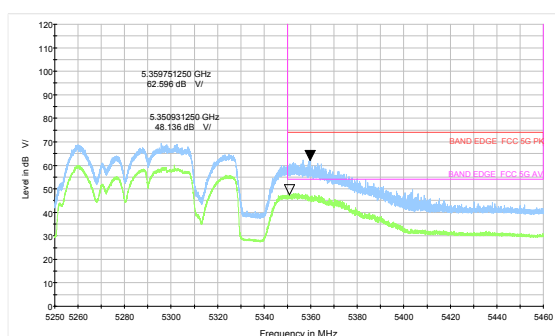
### 802.11ax HE40-Channel 54: Peak & Average



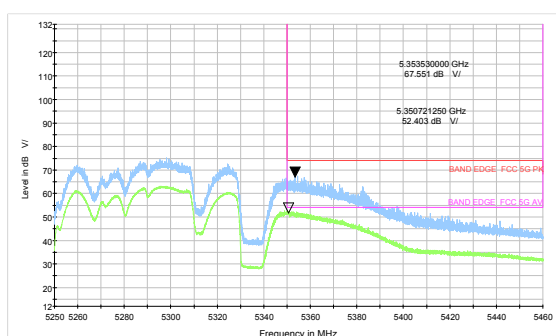
### 802.11ax HE40-Channel 62: Peak & Average



### 802.11ac VHT80 –Channel 58: Peak & Average



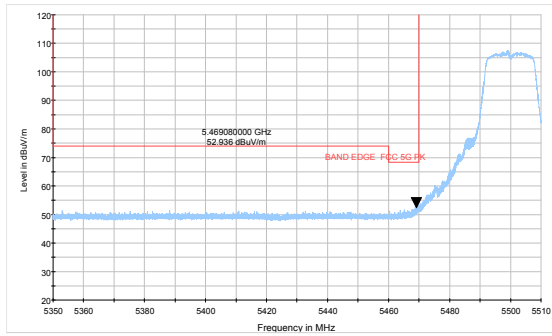
### 802.11ax HE80 –Channel 58: Peak & Average



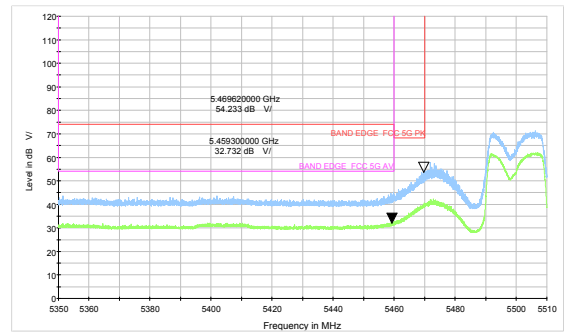


## U-NII-2C

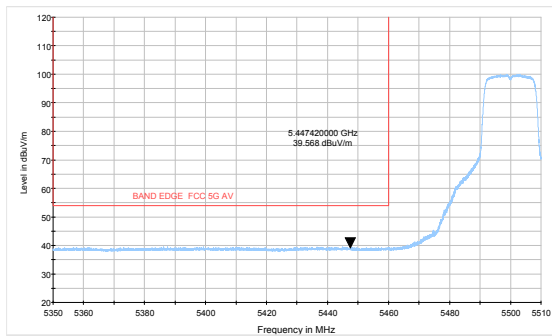
802.11a-Channel 100: Peak



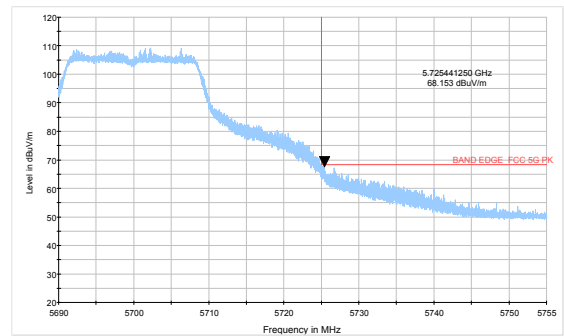
802.11n HT20-Channel 100: Peak &amp; Average



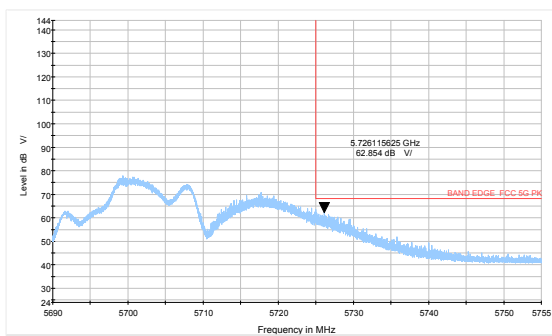
802.11a-Channel 100: Average



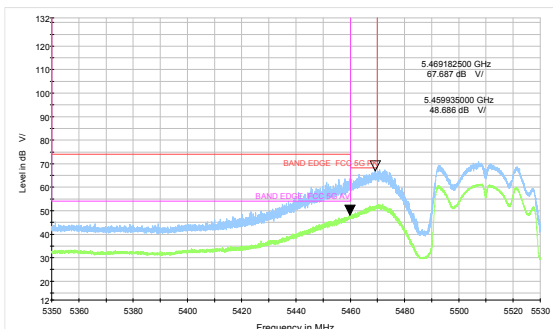
802.11n HT20-Channel 140: Peak



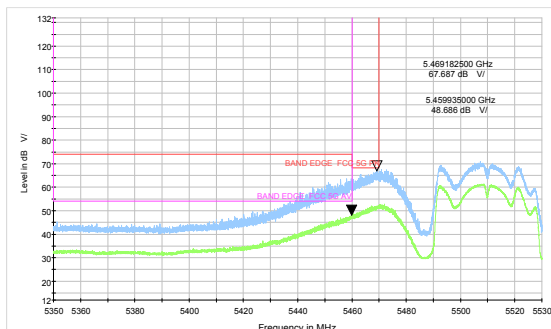
802.11a-Channel 140: Peak



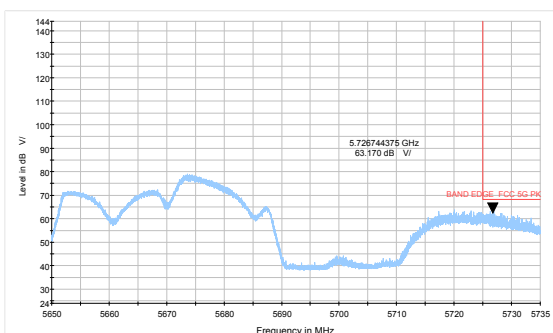
### 802.11n HT40-Channel 102: Peak & Average



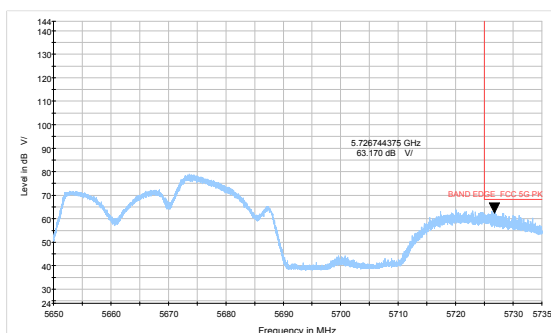
### 802.11n HT40-Channel 102: Peak & Average



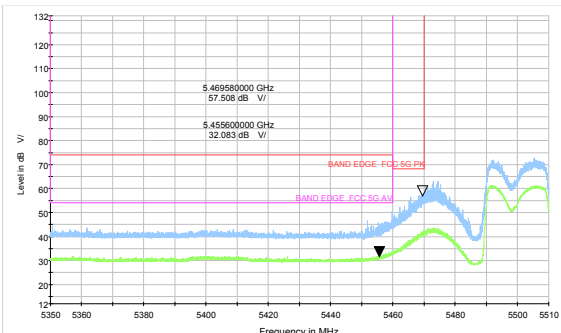
### 802.11n HT40-Channel 134: Peak



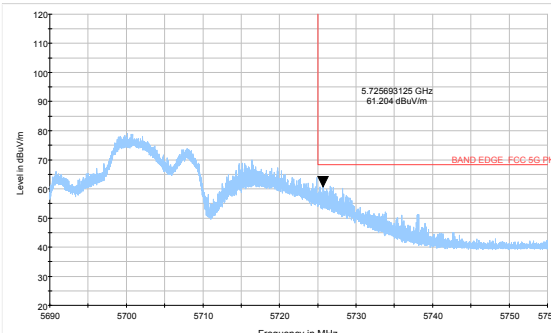
### 802.11n HT40-Channel 134: Peak



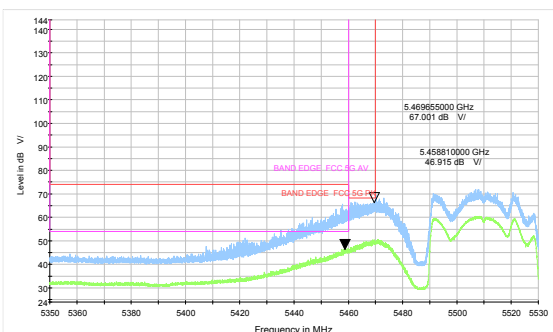
### 802.11ax HE20 -Channel 100: Peak & Average



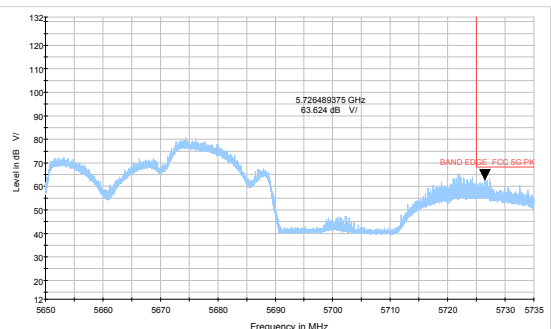
### 802.11ax HE20 -Channel 140: Peak



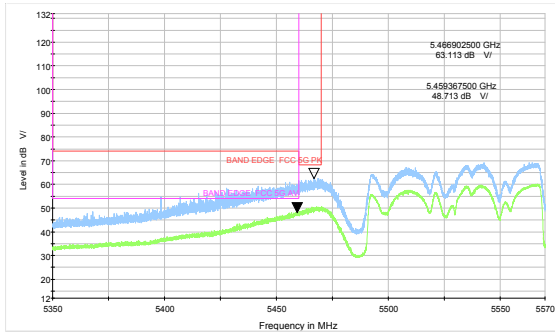
### 802.11ax HE40-Channel 102: Peak & Average



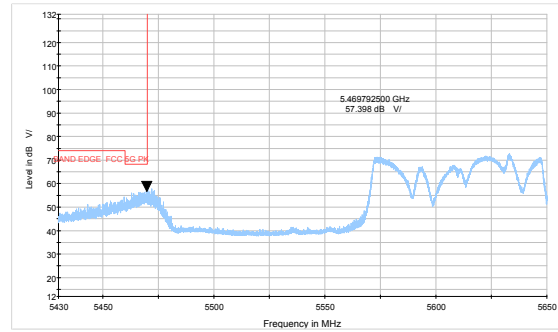
### 802.11ax HE40-Channel 134: Peak & Average



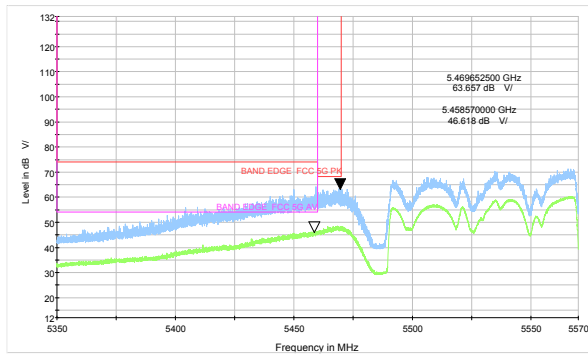
### 802.11ac VHT80 –Channel 106: Peak & Average



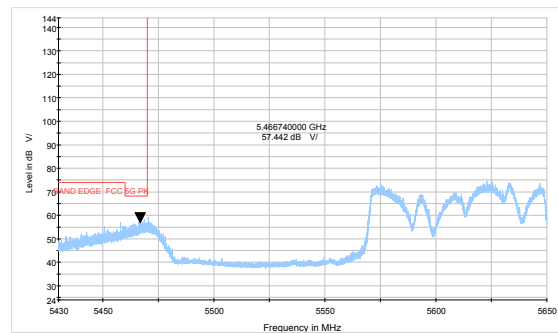
### 802.11ac VHT80 –Channel 122: Peak



### 802.11ax HE80 –Channel 106: Peak & Average



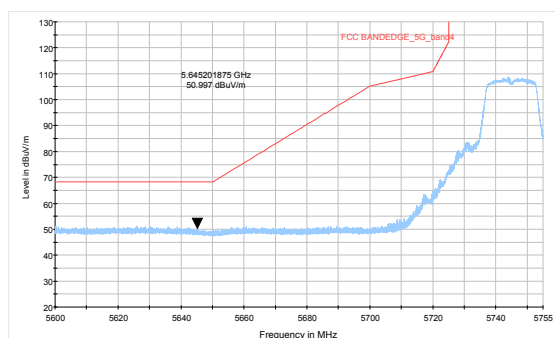
### 802.11ax HE80 –Channel 122: Peak



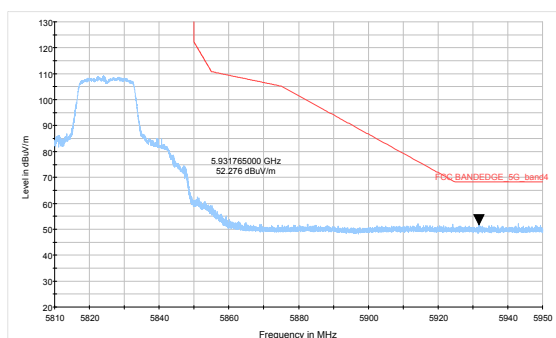


## U-NII-3

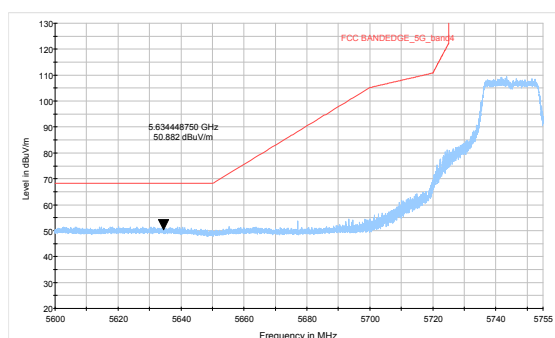
802.11a-Channel 149: Peak



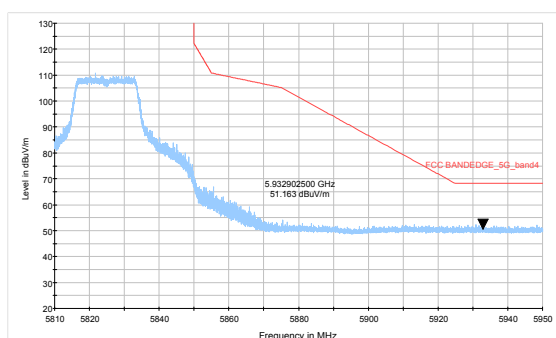
802.11a-Channel 165: Peak



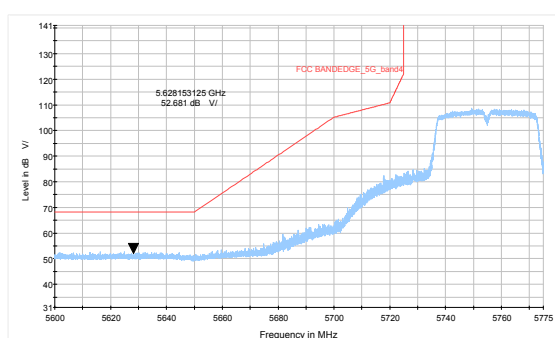
802.11n HT20-Channel 149: Peak



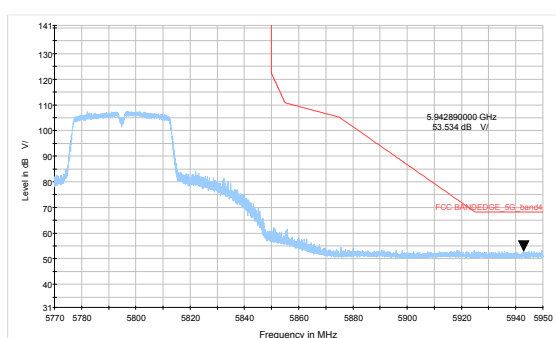
802.11n HT20-Channel 165: Peak



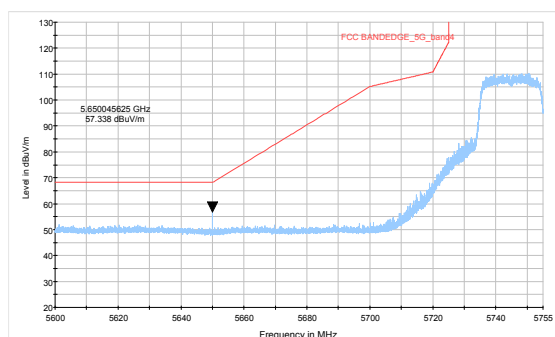
802.11n HT40-Channel 151: Peak



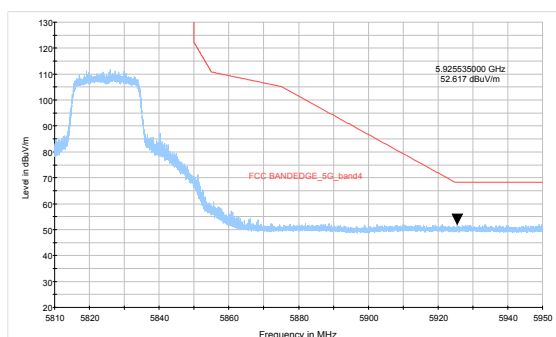
802.11n HT40-Channel 159: Peak



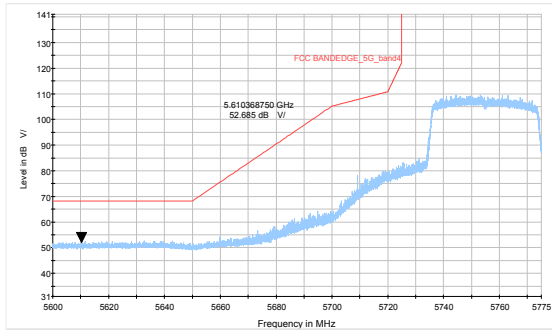
802.11ax HE20-Channel 149: Peak



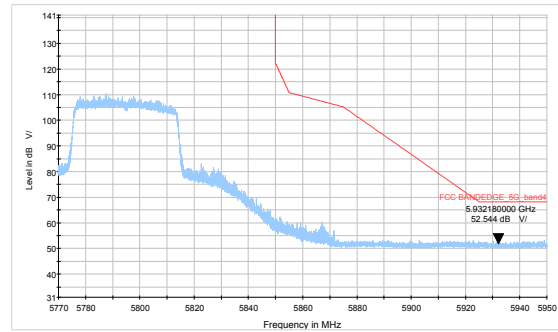
802.11ax HE20-Channel 165: Peak



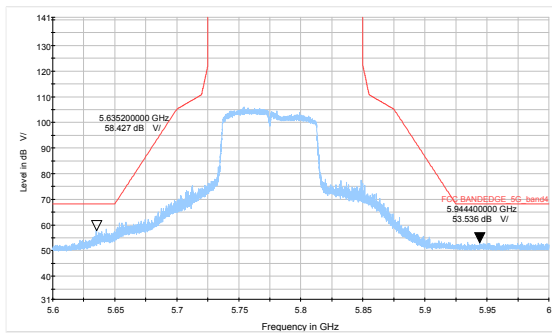
### 802.11ax HE40-Channel 151: Peak



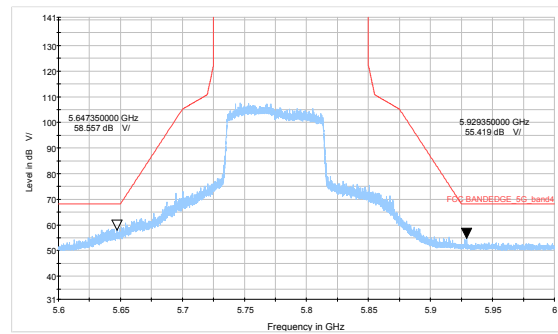
### 802.11ax HE40-Channel 159: Peak



### 802.11ac VHT80- Channel 155: Peak



### 802.11ax HE80- Channel 155: Peak



## Result of RE

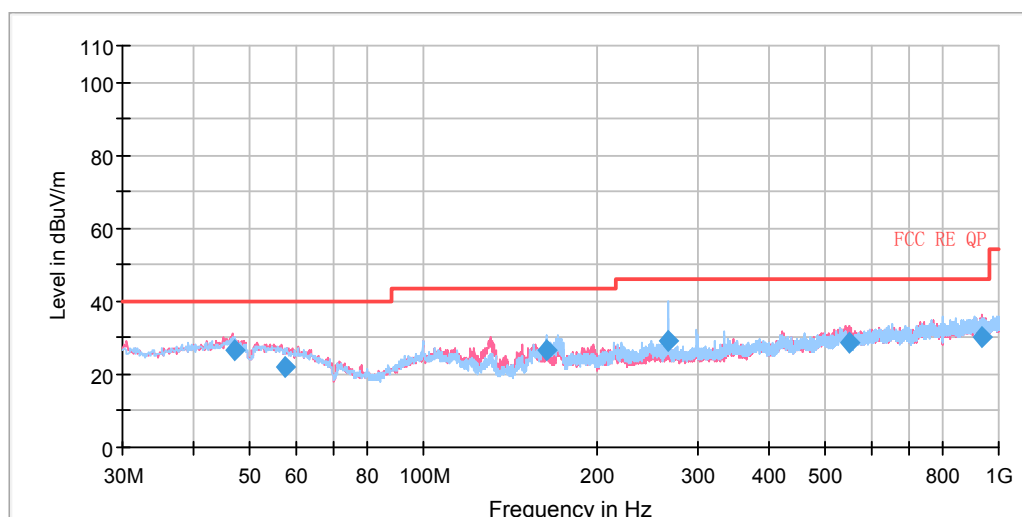
### Test result

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier, the Emissions in the frequency band 9kHz-30MHz and 26.5GHz-40GHz are more than 20dB below the limit are not reported.

After the pretest, MIMO was selected as the worst antenna. SISO Antenna 2 was selected as the worst SISO antenna.

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes with all channels, 802.11ax (HE80) CH106 are selected as the worst condition. The test data of the worst-case condition was recorded in this report.

### Continuous TX mode:



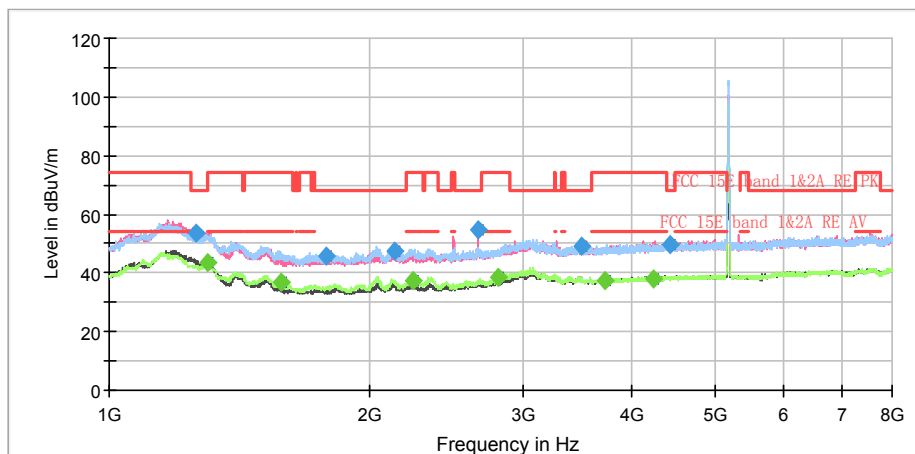
Radiates Emission from 30MHz to 1GHz

| Frequency (MHz) | Quasi-Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|-----------------|---------------------|-------------|--------------|---------------|---------------------|-------------|----------------|
| 46.810000       | 26.53               | 184.0       | V            | 246.0         | -0.6                | 13.47       | 40.00          |
| 57.396250       | 21.99               | 100.0       | V            | 86.0          | -2.4                | 18.01       | 40.00          |
| 164.181250      | 26.37               | 175.0       | H            | 184.0         | -9.1                | 17.13       | 43.50          |
| 266.190000      | 29.32               | 109.0       | H            | 257.0         | -5.1                | 16.68       | 46.00          |
| 547.823750      | 28.43               | 100.0       | V            | 227.0         | 0.3                 | 17.57       | 46.00          |
| 937.065000      | 30.05               | 109.0       | V            | 241.0         | 5.1                 | 15.95       | 46.00          |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

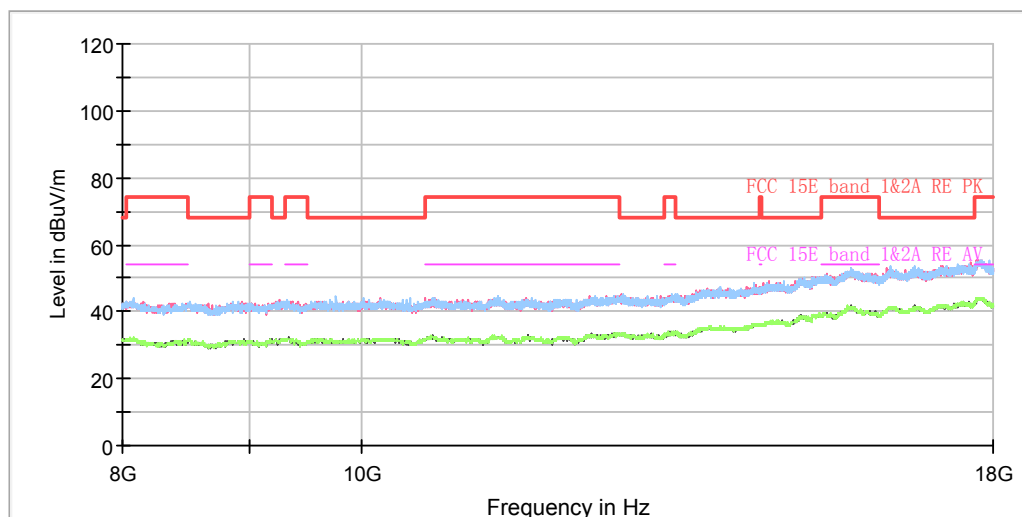
2. Margin = Limit – Quasi-Peak

## 802.11a CH36



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 8GHz



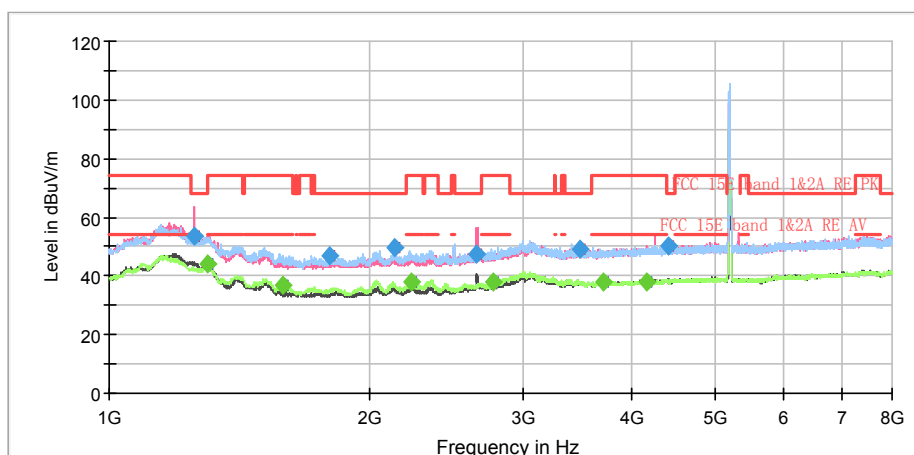
Radiates Emission from 8GHz to 18GHz



| Frequency (MHz) | Peak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Meas. Time (ms) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) |
|-----------------|---------------|------------------|----------------|-------------|-----------------|-------------|--------------|---------------|---------------------|
| 1258.125000     | 53.53         | ---              | 68.20          | 14.67       | 500.0           | 100.0       | V            | 56.0          | -8.0                |
| 1301.875000     | ---           | 43.76            | 54.00          | 10.24       | 500.0           | 100.0       | V            | 61.0          | -7.2                |
| 1581.000000     | ---           | 37.02            | 54.00          | 16.98       | 500.0           | 100.0       | H            | 223.0         | -5.7                |
| 1782.250000     | 45.80         | ---              | 68.20          | 22.40       | 500.0           | 100.0       | H            | 218.0         | -4.6                |
| 2132.250000     | 47.58         | ---              | 68.20          | 20.62       | 500.0           | 200.0       | V            | 185.0         | -2.8                |
| 2240.750000     | ---           | 37.54            | 54.00          | 16.46       | 500.0           | 100.0       | H            | 131.0         | -2.5                |
| 2664.250000     | 54.70         | ---              | 68.20          | 13.50       | 500.0           | 100.0       | V            | 238.0         | -0.7                |
| 2807.750000     | ---           | 38.25            | 54.00          | 15.75       | 500.0           | 200.0       | H            | 135.0         | 0.1                 |
| 3500.750000     | 49.19         | ---              | 68.20          | 19.01       | 500.0           | 100.0       | V            | 303.0         | 2.3                 |
| 3726.500000     | ---           | 37.49            | 54.00          | 16.51       | 500.0           | 200.0       | V            | 287.0         | 3.1                 |
| 4240.125000     | ---           | 38.22            | 54.00          | 15.78       | 500.0           | 200.0       | V            | 147.0         | 4.5                 |
| 4444.000000     | 49.71         | ---              | 68.20          | 18.49       | 500.0           | 100.0       | V            | 184.0         | 4.9                 |

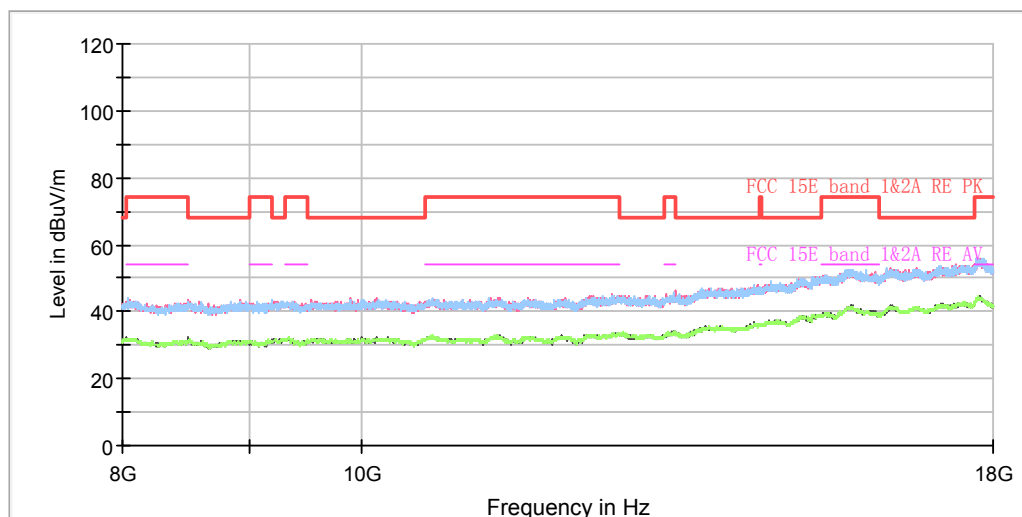
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

# 802.11a CH40



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 8GHz



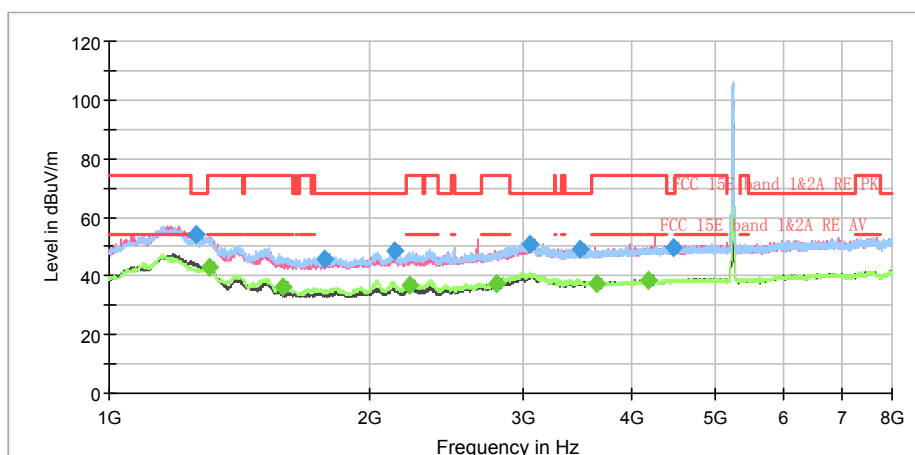
Radiates Emission from 8GHz to 18GHz



| Frequency (MHz) | Peak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Meas. Time (ms) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) |
|-----------------|---------------|------------------|----------------|-------------|-----------------|-------------|--------------|---------------|---------------------|
| 1253.750000     | 53.64         | ---              | 68.20          | 14.56       | 500.0           | 200.0       | V            | 125.0         | -7.5                |
| 1301.000000     | ---           | 44.00            | 54.00          | 10.00       | 500.0           | 100.0       | V            | 67.0          | -7.2                |
| 1582.750000     | ---           | 36.63            | 54.00          | 17.37       | 500.0           | 200.0       | H            | 222.0         | -5.7                |
| 1796.250000     | 47.08         | ---              | 68.20          | 21.12       | 500.0           | 100.0       | H            | 216.0         | -4.5                |
| 2130.500000     | 49.75         | ---              | 68.20          | 18.45       | 500.0           | 100.0       | V            | 251.0         | -2.8                |
| 2232.875000     | ---           | 37.71            | 54.00          | 16.29       | 500.0           | 100.0       | H            | 244.0         | -2.6                |
| 2652.875000     | 47.34         | ---              | 68.20          | 20.86       | 500.0           | 100.0       | V            | 117.0         | -0.8                |
| 2777.125000     | ---           | 37.92            | 54.00          | 16.08       | 500.0           | 200.0       | H            | 135.0         | -0.1                |
| 3492.000000     | 48.98         | ---              | 68.20          | 19.22       | 500.0           | 200.0       | V            | 125.0         | 2.2                 |
| 3712.500000     | ---           | 37.82            | 54.00          | 16.18       | 500.0           | 200.0       | H            | 135.0         | 3.1                 |
| 4162.250000     | ---           | 38.22            | 54.00          | 15.78       | 500.0           | 100.0       | V            | 278.0         | 4.4                 |
| 4417.750000     | 49.99         | ---              | 68.20          | 18.21       | 500.0           | 200.0       | H            | 35.0          | 4.9                 |

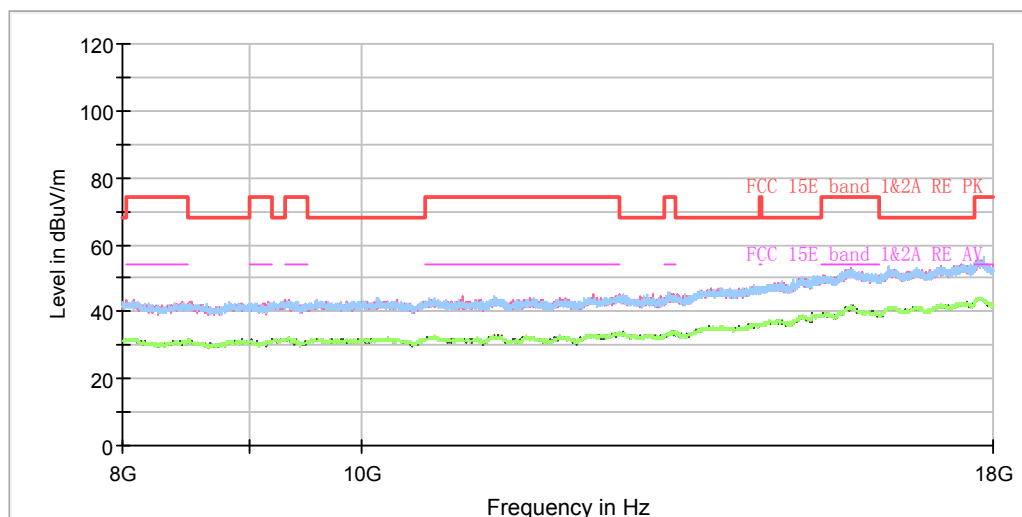
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

# 802.11a CH48



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 8GHz



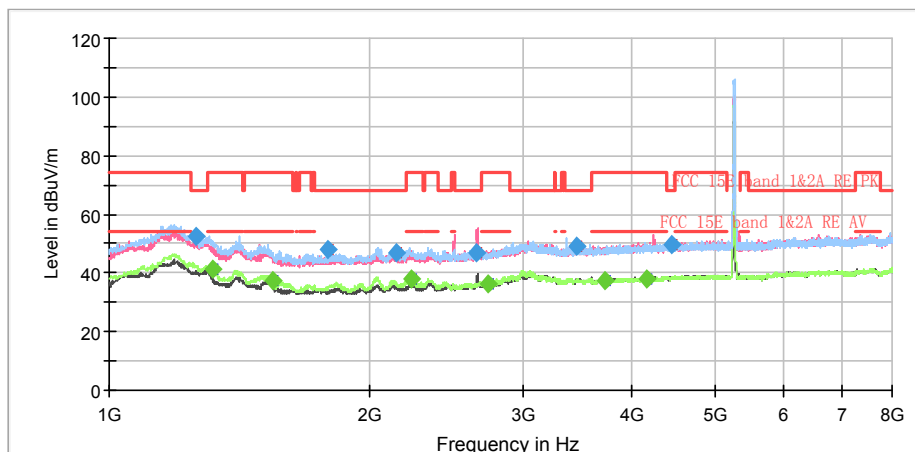
Radiates Emission from 8GHz to 18GHz



| Frequency (MHz) | Peak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Meas. Time (ms) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) |
|-----------------|---------------|------------------|----------------|-------------|-----------------|-------------|--------------|---------------|---------------------|
| 1260.750000     | 54.34         | ---              | 68.20          | 13.86       | 500.0           | 100.0       | V            | 59.0          | -7.9                |
| 1307.125000     | ---           | 43.03            | 54.00          | 10.97       | 500.0           | 100.0       | V            | 65.0          | -7.2                |
| 1582.750000     | ---           | 36.36            | 54.00          | 17.64       | 500.0           | 100.0       | H            | 219.0         | -5.7                |
| 1775.250000     | 45.74         | ---              | 68.20          | 22.46       | 500.0           | 100.0       | H            | 219.0         | -4.6                |
| 2137.500000     | 48.58         | ---              | 68.20          | 19.62       | 500.0           | 100.0       | H            | 146.0         | -2.8                |
| 2224.125000     | ---           | 36.98            | 54.00          | 17.02       | 500.0           | 100.0       | H            | 241.0         | -2.6                |
| 2798.125000     | ---           | 37.67            | 54.00          | 16.33       | 500.0           | 200.0       | H            | 136.0         | 0.1                 |
| 3058.875000     | 50.64         | ---              | 68.20          | 17.56       | 500.0           | 200.0       | H            | 142.0         | 1.4                 |
| 3494.625000     | 48.87         | ---              | 68.20          | 19.33       | 500.0           | 200.0       | V            | 130.0         | 2.3                 |
| 3649.500000     | ---           | 37.63            | 54.00          | 16.37       | 500.0           | 100.0       | H            | 14.0          | 2.8                 |
| 4192.875000     | ---           | 38.26            | 54.00          | 15.74       | 500.0           | 200.0       | V            | 298.0         | 4.4                 |
| 4474.625000     | 49.65         | ---              | 68.20          | 18.55       | 500.0           | 100.0       | V            | 347.0         | 4.9                 |

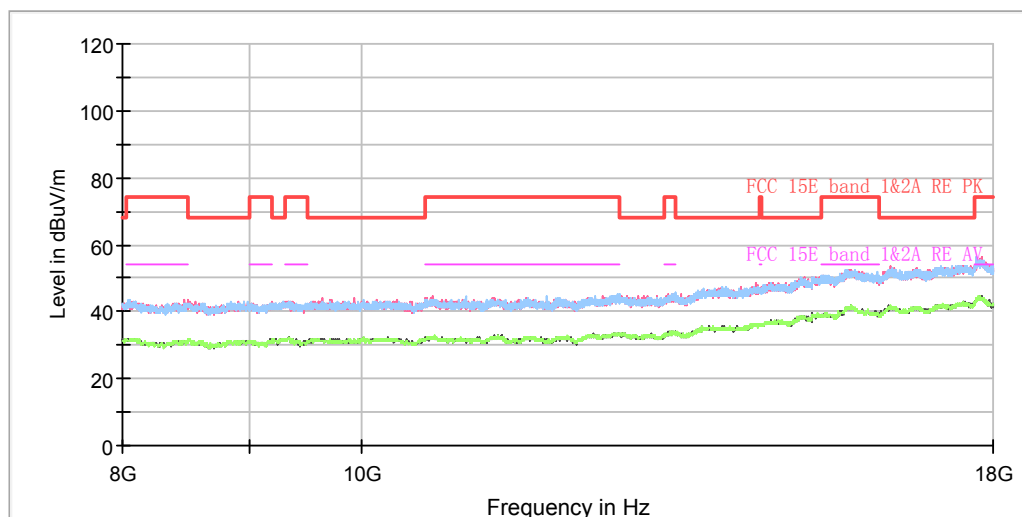
**Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)**

# 802.11a CH52



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 8GHz



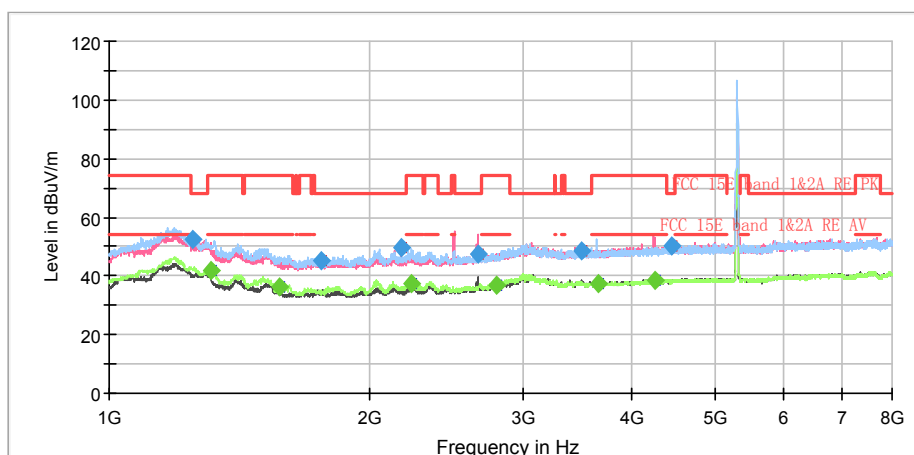
Radiates Emission from 8GHz to 18GHz



| Frequency (MHz) | Peak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Meas. Time (ms) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) |
|-----------------|---------------|------------------|----------------|-------------|-----------------|-------------|--------------|---------------|---------------------|
| 1260.750000     | 52.62         | ---              | 68.20          | 15.58       | 500.0           | 100.0       | H            | 231.0         | -7.8                |
| 1317.625000     | ---           | 41.33            | 54.00          | 12.67       | 500.0           | 100.0       | H            | 236.0         | -7.1                |
| 1542.500000     | ---           | 37.38            | 54.00          | 16.62       | 500.0           | 100.0       | H            | 225.0         | -6.0                |
| 1789.250000     | 48.19         | ---              | 68.20          | 20.01       | 500.0           | 200.0       | H            | 251.0         | -4.5                |
| 2141.000000     | 46.73         | ---              | 68.20          | 21.47       | 500.0           | 100.0       | H            | 214.0         | -2.8                |
| 2228.500000     | ---           | 37.76            | 54.00          | 16.24       | 500.0           | 100.0       | H            | 242.0         | -2.6                |
| 2652.000000     | 46.66         | ---              | 68.20          | 21.54       | 500.0           | 100.0       | V            | 205.0         | -0.8                |
| 2737.750000     | ---           | 36.47            | 54.00          | 17.53       | 500.0           | 100.0       | V            | 111.0         | -0.3                |
| 3461.375000     | 49.00         | ---              | 68.20          | 19.21       | 500.0           | 100.0       | V            | 134.0         | 2.2                 |
| 3730.875000     | ---           | 37.55            | 54.00          | 16.45       | 500.0           | 200.0       | V            | 176.0         | 3.1                 |
| 4175.375000     | ---           | 38.16            | 54.00          | 15.84       | 500.0           | 100.0       | V            | 216.0         | 4.4                 |
| 4447.500000     | 49.76         | ---              | 68.20          | 18.44       | 500.0           | 100.0       | H            | 225.0         | 4.9                 |

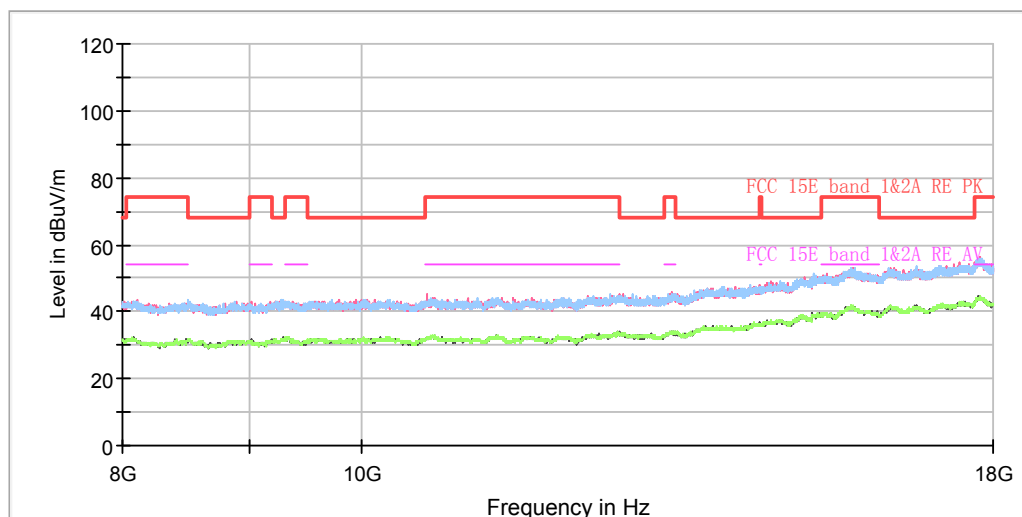
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

# 802.11a CH60



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 8GHz



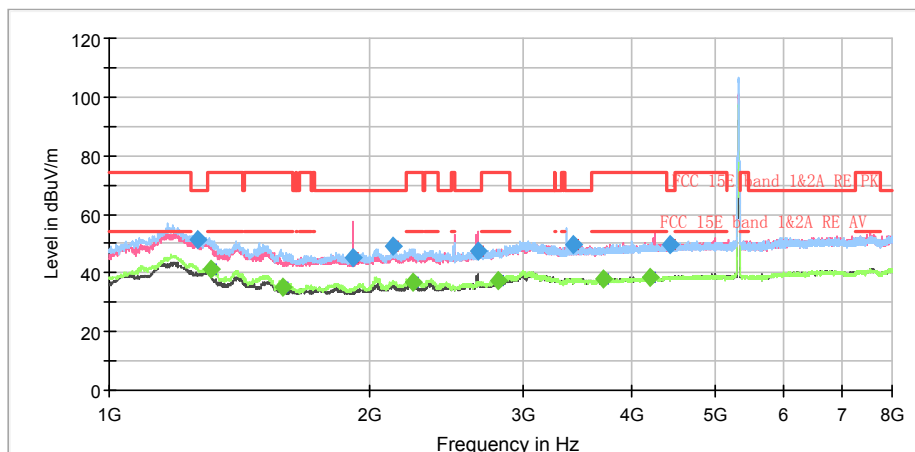
Radiates Emission from 8GHz to 18GHz



| Frequency (MHz) | Peak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Meas. Time (ms) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) |
|-----------------|---------------|------------------|----------------|-------------|-----------------|-------------|--------------|---------------|---------------------|
| 1250.250000     | 52.47         | ---              | 68.20          | 15.73       | 500.0           | 100.0       | H            | 228.0         | -7.8                |
| 1308.000000     | ---           | 42.12            | 54.00          | 11.88       | 500.0           | 100.0       | H            | 234.0         | -7.2                |
| 1573.125000     | ---           | 36.41            | 54.00          | 17.59       | 500.0           | 100.0       | H            | 228.0         | -5.7                |
| 1757.750000     | 45.32         | ---              | 68.20          | 22.88       | 500.0           | 200.0       | V            | 186.0         | -4.7                |
| 2175.125000     | 49.85         | ---              | 68.20          | 18.35       | 500.0           | 200.0       | V            | 351.0         | -2.7                |
| 2227.625000     | ---           | 37.55            | 54.00          | 16.45       | 500.0           | 100.0       | H            | 245.0         | -2.6                |
| 2661.625000     | 47.51         | ---              | 68.20          | 20.69       | 500.0           | 200.0       | V            | 159.0         | -0.7                |
| 2791.125000     | ---           | 37.03            | 54.00          | 16.97       | 500.0           | 200.0       | H            | 140.0         | 0.0                 |
| 3514.750000     | 48.32         | ---              | 68.20          | 19.88       | 500.0           | 200.0       | V            | 132.0         | 2.4                 |
| 3671.375000     | ---           | 37.51            | 54.00          | 16.49       | 500.0           | 100.0       | V            | 329.0         | 3.0                 |
| 4263.750000     | ---           | 38.79            | 54.00          | 15.21       | 500.0           | 100.0       | V            | 279.0         | 4.5                 |
| 4465.000000     | 50.38         | ---              | 68.20          | 17.82       | 500.0           | 200.0       | H            | 353.0         | 4.9                 |

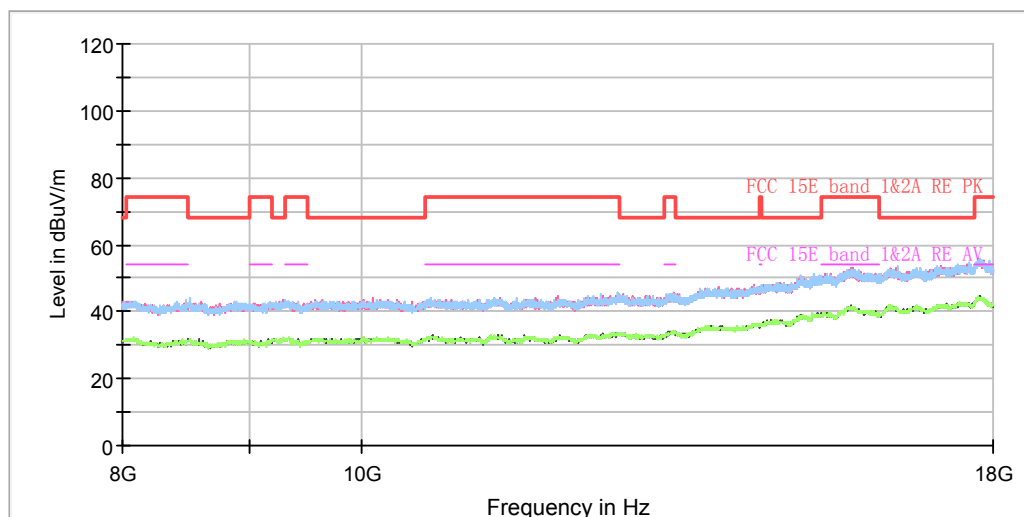
**Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)**

# 802.11a CH64



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 8GHz



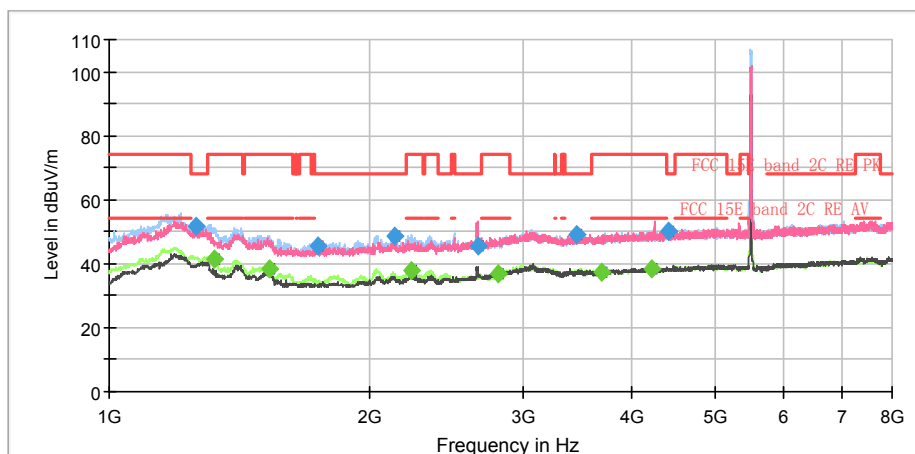
Radiates Emission from 8GHz to 18GHz



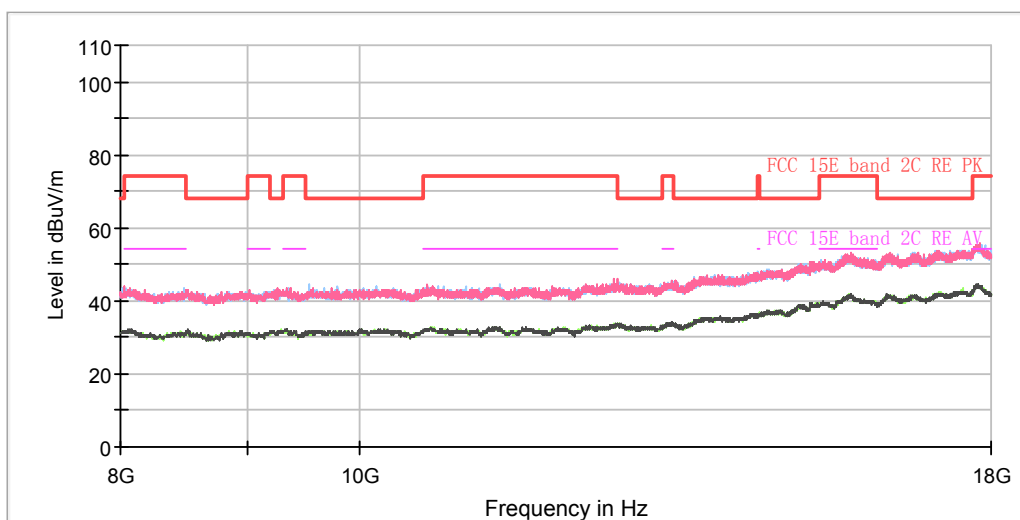
| Frequency (MHz) | Peak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Meas. Time (ms) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) |
|-----------------|---------------|------------------|----------------|-------------|-----------------|-------------|--------------|---------------|---------------------|
| 1266.000000     | 51.59         | ---              | 68.20          | 16.61       | 500.0           | 200.0       | H            | 234.0         | -7.8                |
| 1311.500000     | ---           | 41.26            | 54.00          | 12.74       | 500.0           | 100.0       | H            | 235.0         | -7.2                |
| 1583.625000     | ---           | 35.21            | 54.00          | 18.79       | 500.0           | 100.0       | H            | 224.0         | -5.7                |
| 1911.750000     | 45.02         | ---              | 68.20          | 23.18       | 500.0           | 200.0       | H            | 250.0         | -3.9                |
| 2129.625000     | 49.39         | ---              | 68.20          | 18.81       | 500.0           | 200.0       | V            | 126.0         | -2.8                |
| 2239.000000     | ---           | 36.97            | 54.00          | 17.03       | 500.0           | 100.0       | H            | 258.0         | -2.5                |
| 2659.000000     | 47.57         | ---              | 68.20          | 20.63       | 500.0           | 100.0       | H            | 89.0          | -0.7                |
| 2813.000000     | ---           | 37.45            | 54.00          | 16.55       | 500.0           | 200.0       | H            | 134.0         | 0.2                 |
| 3433.375000     | 49.65         | ---              | 68.20          | 18.55       | 500.0           | 100.0       | H            | 138.0         | 2.1                 |
| 3713.375000     | ---           | 37.94            | 54.00          | 16.06       | 500.0           | 100.0       | H            | 121.0         | 3.1                 |
| 4206.000000     | ---           | 38.56            | 54.00          | 15.44       | 500.0           | 100.0       | V            | 1.0           | 4.4                 |
| 4444.000000     | 49.59         | ---              | 68.20          | 18.61       | 500.0           | 100.0       | H            | 0.0           | 4.9                 |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

## 802.11a CH100



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



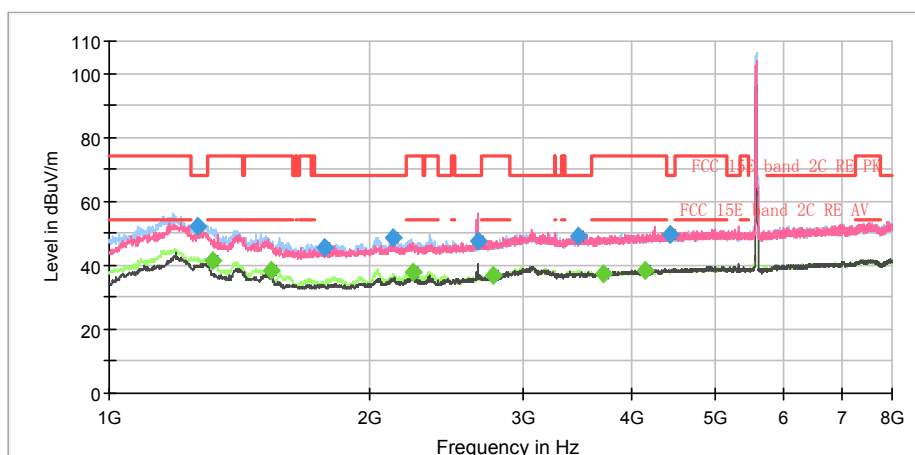
Radiates Emission from 8GHz to 18GHz



| Frequency (MHz) | Peak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Meas. Time (ms) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) |
|-----------------|---------------|------------------|----------------|-------------|-----------------|-------------|--------------|---------------|---------------------|
| 1260.750000     | 51.67         | ---              | 68.20          | 16.53       | 500.0           | 100.0       | H            | 236.0         | -8.0                |
| 1322.000000     | ---           | 41.24            | 54.00          | 12.76       | 500.0           | 200.0       | H            | 236.0         | -7.1                |
| 1527.625000     | ---           | 38.25            | 54.00          | 15.75       | 500.0           | 100.0       | H            | 226.0         | -6.0                |
| 1737.625000     | 45.55         | ---              | 68.20          | 22.65       | 500.0           | 200.0       | H            | 208.0         | -4.8                |
| 2130.500000     | 48.69         | ---              | 68.20          | 19.51       | 500.0           | 100.0       | V            | 142.0         | -2.8                |
| 2232.875000     | ---           | 37.61            | 54.00          | 16.39       | 500.0           | 200.0       | H            | 242.0         | -2.6                |
| 2664.250000     | 45.46         | ---              | 68.20          | 22.74       | 500.0           | 100.0       | H            | 205.0         | -0.7                |
| 2809.500000     | ---           | 36.59            | 54.00          | 17.41       | 500.0           | 200.0       | V            | 181.0         | 0.1                 |
| 3458.750000     | 49.05         | ---              | 68.20          | 19.15       | 500.0           | 200.0       | V            | 170.0         | 2.2                 |
| 3694.125000     | ---           | 37.14            | 54.00          | 16.86       | 500.0           | 100.0       | H            | 205.0         | 3.1                 |
| 4218.250000     | ---           | 38.23            | 54.00          | 15.77       | 500.0           | 100.0       | V            | 65.0          | 4.4                 |
| 4416.875000     | 50.10         | ---              | 68.20          | 18.10       | 500.0           | 100.0       | V            | 71.0          | 4.9                 |

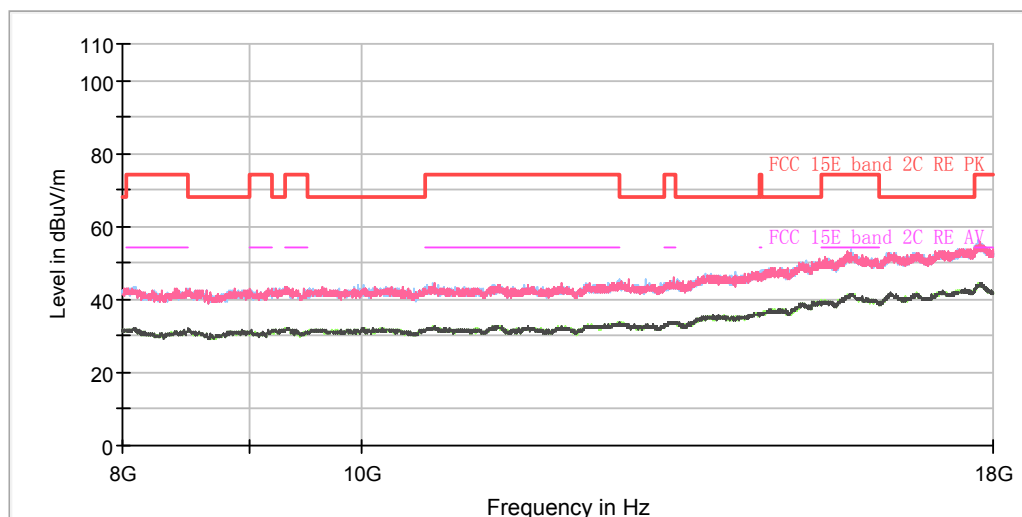
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

# 802.11a CH116



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 8GHz



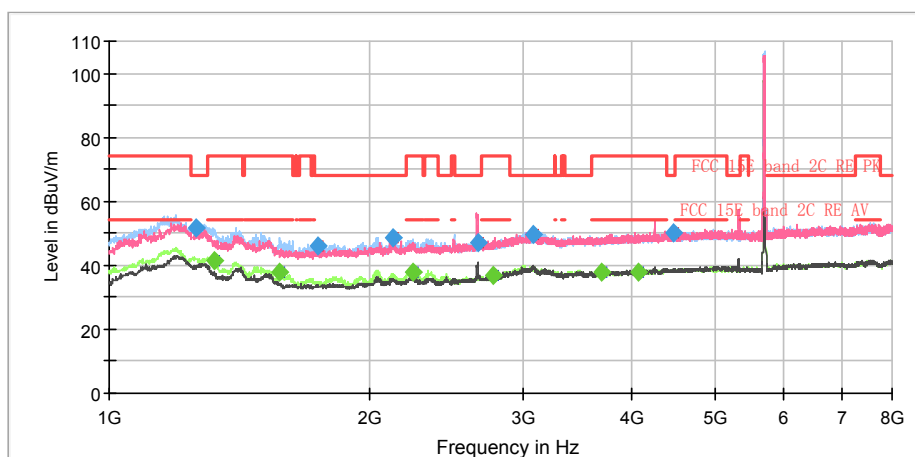
Radiates Emission from 8GHz to 18GHz



| Frequency (MHz) | Peak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Meas. Time (ms) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) |
|-----------------|---------------|------------------|----------------|-------------|-----------------|-------------|--------------|---------------|---------------------|
| 1266.875000     | 52.02         | ---              | 68.20          | 16.18       | 500.0           | 200.0       | H            | 230.0         | -7.8                |
| 1315.000000     | ---           | 41.58            | 54.00          | 12.42       | 500.0           | 100.0       | H            | 238.0         | -7.2                |
| 1534.625000     | ---           | 38.25            | 54.00          | 15.75       | 500.0           | 100.0       | H            | 227.0         | -6.0                |
| 1771.750000     | 45.39         | ---              | 68.20          | 22.81       | 500.0           | 200.0       | H            | 225.0         | -4.6                |
| 2126.125000     | 48.45         | ---              | 68.20          | 19.75       | 500.0           | 200.0       | V            | 250.0         | -2.9                |
| 2239.000000     | ---           | 37.99            | 54.00          | 16.01       | 500.0           | 200.0       | H            | 242.0         | -2.5                |
| 2662.500000     | 47.49         | ---              | 68.20          | 20.71       | 500.0           | 200.0       | V            | 123.0         | -0.7                |
| 2775.375000     | ---           | 36.61            | 54.00          | 17.39       | 500.0           | 200.0       | V            | 0.0           | -0.1                |
| 3474.500000     | 49.12         | ---              | 68.20          | 19.08       | 500.0           | 200.0       | H            | 98.0          | 2.2                 |
| 3712.500000     | ---           | 37.14            | 54.00          | 16.86       | 500.0           | 100.0       | H            | 40.0          | 3.1                 |
| 4157.875000     | ---           | 38.28            | 54.00          | 15.72       | 500.0           | 100.0       | H            | 139.0         | 4.4                 |
| 4441.375000     | 49.84         | ---              | 68.20          | 18.36       | 500.0           | 100.0       | H            | 288.0         | 4.9                 |

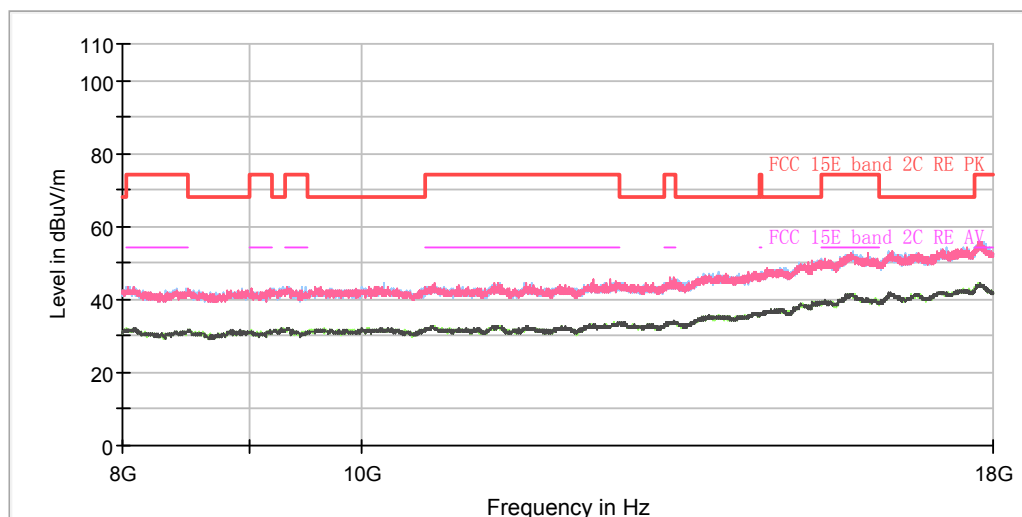
Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

## 802.11a CH140



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 8GHz



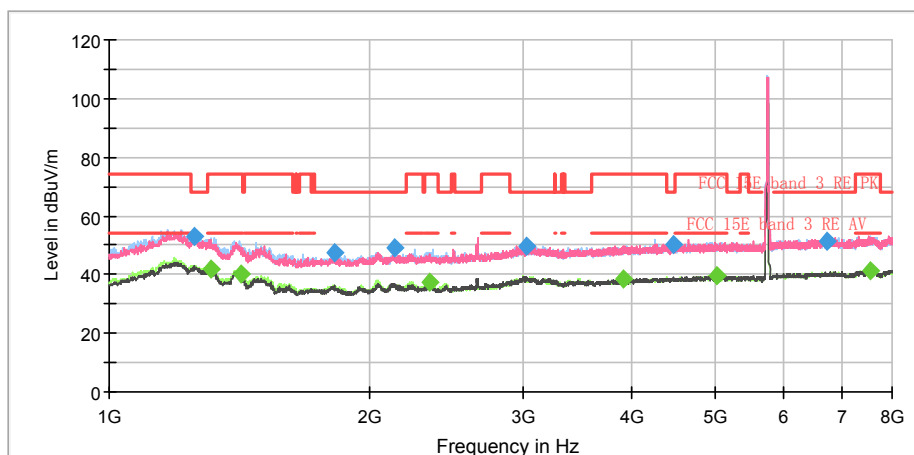
Radiates Emission from 8GHz to 18GHz



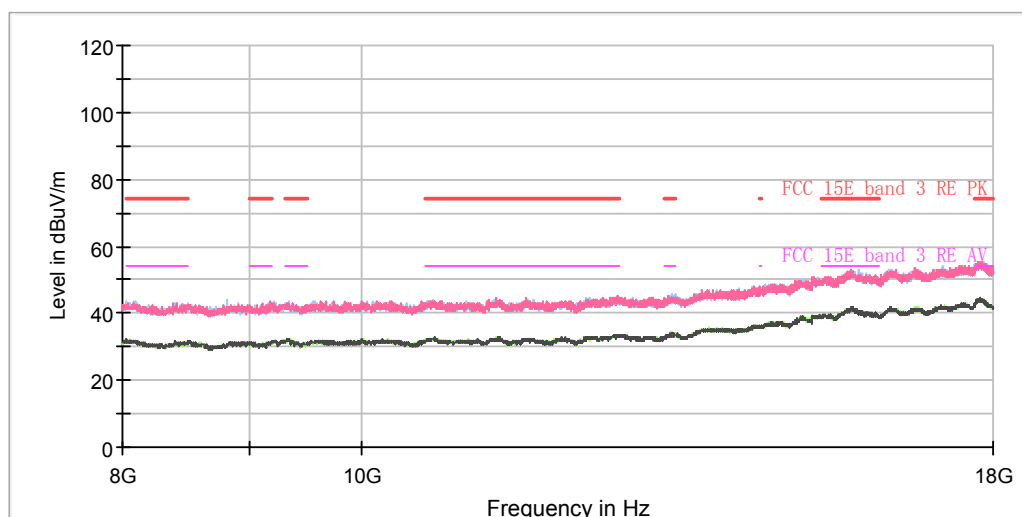
| Frequency (MHz) | Peak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Meas. Time (ms) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) |
|-----------------|---------------|------------------|----------------|-------------|-----------------|-------------|--------------|---------------|---------------------|
| 1260.750000     | 51.71         | ---              | 16.49          | 12.22       | 500.0           | 200.0       | H            | 236.0         | -7.8                |
| 1320.250000     | ---           | 41.69            | 54.00          | 12.31       | 500.0           | 200.0       | H            | 236.0         | -7.1                |
| 1574.000000     | ---           | 37.80            | 54.00          | 16.20       | 500.0           | 200.0       | H            | 224.0         | -5.7                |
| 1741.125000     | 45.83         | ---              | 68.20          | 22.37       | 500.0           | 100.0       | H            | 247.0         | -4.8                |
| 2122.625000     | 48.47         | ---              | 68.20          | 19.73       | 500.0           | 200.0       | H            | 208.0         | -2.9                |
| 2239.000000     | ---           | 37.89            | 54.00          | 16.11       | 500.0           | 200.0       | H            | 241.0         | -2.5                |
| 2664.250000     | 47.26         | ---              | 68.20          | 20.94       | 500.0           | 200.0       | H            | 125.0         | -0.7                |
| 2776.250000     | ---           | 36.94            | 54.00          | 17.06       | 500.0           | 200.0       | V            | 106.0         | -0.1                |
| 3086.000000     | 49.63         | ---              | 68.20          | 18.57       | 500.0           | 100.0       | V            | 116.0         | 1.5                 |
| 3702.000000     | ---           | 37.66            | 54.00          | 16.34       | 500.0           | 100.0       | V            | 111.0         | 3.1                 |
| 4080.875000     | ---           | 37.99            | 54.00          | 16.01       | 500.0           | 100.0       | V            | 188.0         | 4.2                 |
| 4478.125000     | 50.03         | ---              | 68.20          | 18.17       | 500.0           | 200.0       | V            | 211.0         | 4.9                 |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

# 802.11a CH149



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



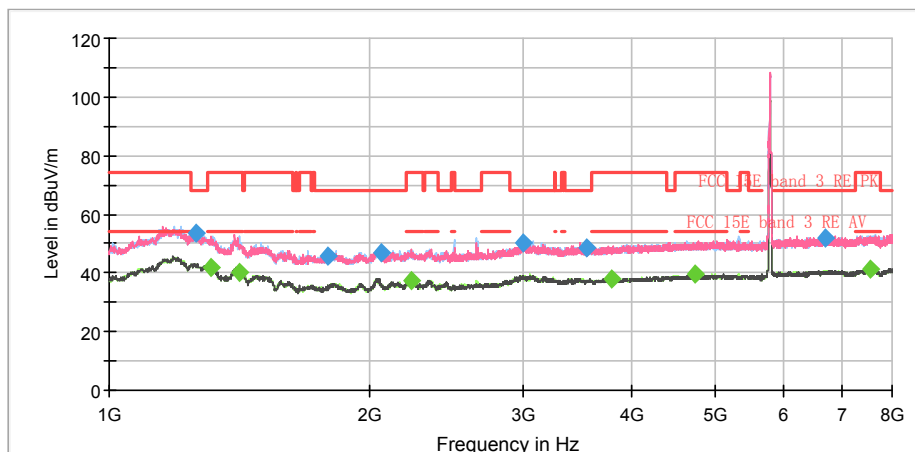
Radiates Emission from 8GHz to 18GHz



| Frequency<br>(MHz) | Peak<br>(dBuV/m) | Average<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Meas.<br>Time<br>(ms) | Height<br>(cm) | Polarization | Azimuth<br>(deg) | Correct<br>Factor<br>(dB) |
|--------------------|------------------|---------------------|-------------------|----------------|-----------------------|----------------|--------------|------------------|---------------------------|
| 1253.750000        | 52.94            | ---                 | 68.20             | 15.26          | 500.0                 | 100.0          | V            | 205.0            | -1.5                      |
| 1308.875000        | ---              | 41.98               | 54.00             | 12.02          | 500.0                 | 100.0          | H            | 239.0            | -7.2                      |
| 1418.250000        | ---              | 40.28               | 54.00             | 13.72          | 500.0                 | 200.0          | H            | 218.0            | -6.6                      |
| 1817.250000        | 47.19            | ---                 | 68.20             | 21.01          | 500.0                 | 100.0          | V            | 320.0            | 3.9                       |
| 2132.250000        | 49.16            | ---                 | 68.20             | 19.04          | 500.0                 | 100.0          | H            | 222.0            | -6.6                      |
| 2347.500000        | ---              | 37.48               | 54.00             | 16.52          | 500.0                 | 200.0          | H            | 268.0            | -2.1                      |
| 3026.500000        | 49.76            | ---                 | 68.20             | 18.44          | 500.0                 | 200.0          | H            | 151.0            | 4.5                       |
| 3924.250000        | ---              | 38.56               | 54.00             | 15.44          | 500.0                 | 100.0          | V            | 320.0            | 3.8                       |
| 4472.875000        | 50.20            | ---                 | 68.20             | 18.00          | 500.0                 | 200.0          | H            | 207.0            | -7.2                      |
| 5024.125000        | ---              | 39.49               | 54.00             | 14.51          | 500.0                 | 200.0          | H            | 290.0            | 6.6                       |
| 6726.875000        | 51.30            | ---                 | 68.20             | 16.90          | 500.0                 | 100.0          | V            | 332.0            | 9.9                       |
| 7557.250000        | ---              | 41.40               | 54.00             | 12.60          | 500.0                 | 200.0          | V            | 79.0             | 10.0                      |

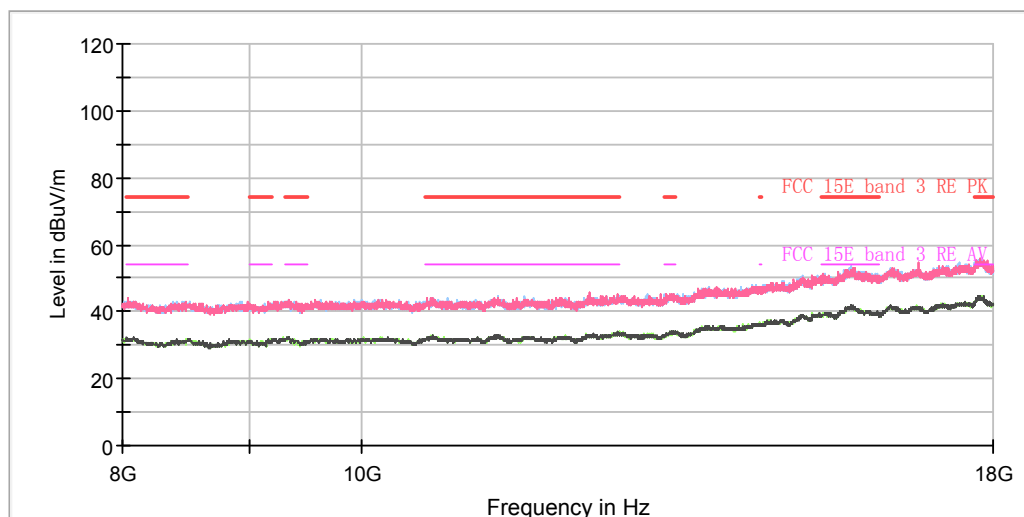
**Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)**

# 802.11a CH157



Note: The signal beyond the limit is carrier.

Radiates Emission from 1GHz to 8GHz



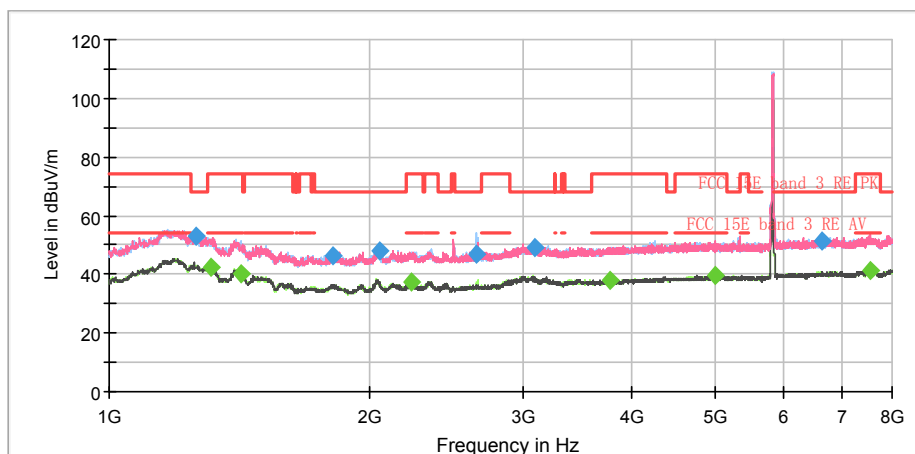
Radiates Emission from 8GHz to 18GHz



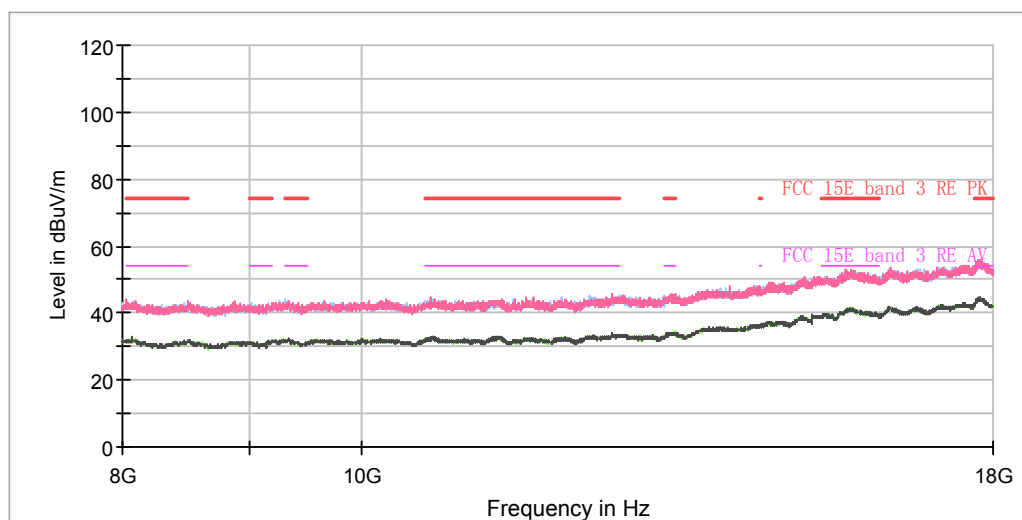
| Frequency (MHz) | Peak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Meas. Time (ms) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) |
|-----------------|---------------|------------------|----------------|-------------|-----------------|-------------|--------------|---------------|---------------------|
| 1259.000000     | 53.41         | ---              | 68.20          | 14.79       | 500.0           | 100.0       | V            | 241.0         | -2.6                |
| 1310.625000     | ---           | 42.10            | 54.00          | 11.90       | 500.0           | 100.0       | V            | 236.0         | -7.2                |
| 1415.625000     | ---           | 40.30            | 54.00          | 13.70       | 500.0           | 100.0       | H            | 218.0         | -6.6                |
| 1784.875000     | 45.81         | ---              | 68.20          | 22.39       | 500.0           | 200.0       | H            | 240.0         | 3.9                 |
| 2060.500000     | 46.70         | ---              | 68.20          | 21.50       | 500.0           | 100.0       | H            | 213.0         | -6.2                |
| 2232.875000     | ---           | 37.62            | 54.00          | 16.38       | 500.0           | 100.0       | H            | 246.0         | -2.6                |
| 3007.250000     | 50.30         | ---              | 68.20          | 17.90       | 500.0           | 200.0       | V            | 61.0          | 6.6                 |
| 3551.375000     | 48.34         | ---              | 68.20          | 19.86       | 500.0           | 200.0       | V            | 226.0         | -6.7                |
| 3793.875000     | ---           | 38.15            | 54.00          | 15.85       | 500.0           | 200.0       | V            | 78.0          | 3.5                 |
| 4734.500000     | ---           | 39.59            | 54.00          | 14.41       | 500.0           | 100.0       | H            | 75.0          | 5.7                 |
| 6709.375000     | 51.69         | ---              | 68.20          | 16.51       | 500.0           | 200.0       | H            | 208.0         | 10.2                |
| 7553.750000     | ---           | 41.46            | 54.00          | 12.54       | 500.0           | 100.0       | V            | 164.0         | 10.0                |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)

## 802.11a CH165



Note: The signal beyond the limit is carrier.  
Radiates Emission from 1GHz to 8GHz



Radiates Emission from 8GHz to 18GHz



| Frequency (MHz) | Peak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Meas. Time (ms) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) |
|-----------------|---------------|------------------|----------------|-------------|-----------------|-------------|--------------|---------------|---------------------|
| 1261.250000     | 53.21         | ---              | 74.00          | 20.79       | 500.0           | 200.0       | H            | 241.0         | -2.6                |
| 1313.250000     | ---           | 42.17            | 54.00          | 11.83       | 500.0           | 100.0       | H            | 241.0         | -7.2                |
| 1420.000000     | ---           | 40.36            | 54.00          | 13.64       | 500.0           | 200.0       | V            | 221.0         | -6.6                |
| 1807.625000     | 46.29         | ---              | 74.00          | 27.71       | 500.0           | 200.0       | V            | 99.0          | 3.8                 |
| 2052.625000     | 48.20         | ---              | 74.00          | 25.80       | 500.0           | 100.0       | H            | 218.0         | -6.6                |
| 2232.000000     | ---           | 37.64            | 54.00          | 16.36       | 500.0           | 200.0       | V            | 244.0         | -2.6                |
| 2656.375000     | 46.71         | ---              | 74.00          | 27.29       | 500.0           | 100.0       | H            | 45.0          | 4.5                 |
| 3095.625000     | 49.25         | ---              | 74.00          | 24.75       | 500.0           | 200.0       | V            | 239.0         | -7.1                |
| 3784.250000     | ---           | 38.23            | 54.00          | 15.77       | 500.0           | 100.0       | V            | 141.0         | 3.4                 |
| 4997.000000     | ---           | 39.48            | 54.00          | 14.52       | 500.0           | 200.0       | H            | 191.0         | 6.6                 |
| 6655.125000     | 51.44         | ---              | 74.00          | 22.56       | 500.0           | 200.0       | V            | 192.0         | 10.0                |
| 7566.000000     | ---           | 41.46            | 54.00          | 12.54       | 500.0           | 200.0       | H            | 219.0         | 10.0                |

**Remark: 1. Correction Factor = Antenna factor+ Insertion loss (cable loss + amplifier gain)**