

## 1. Bandwidth

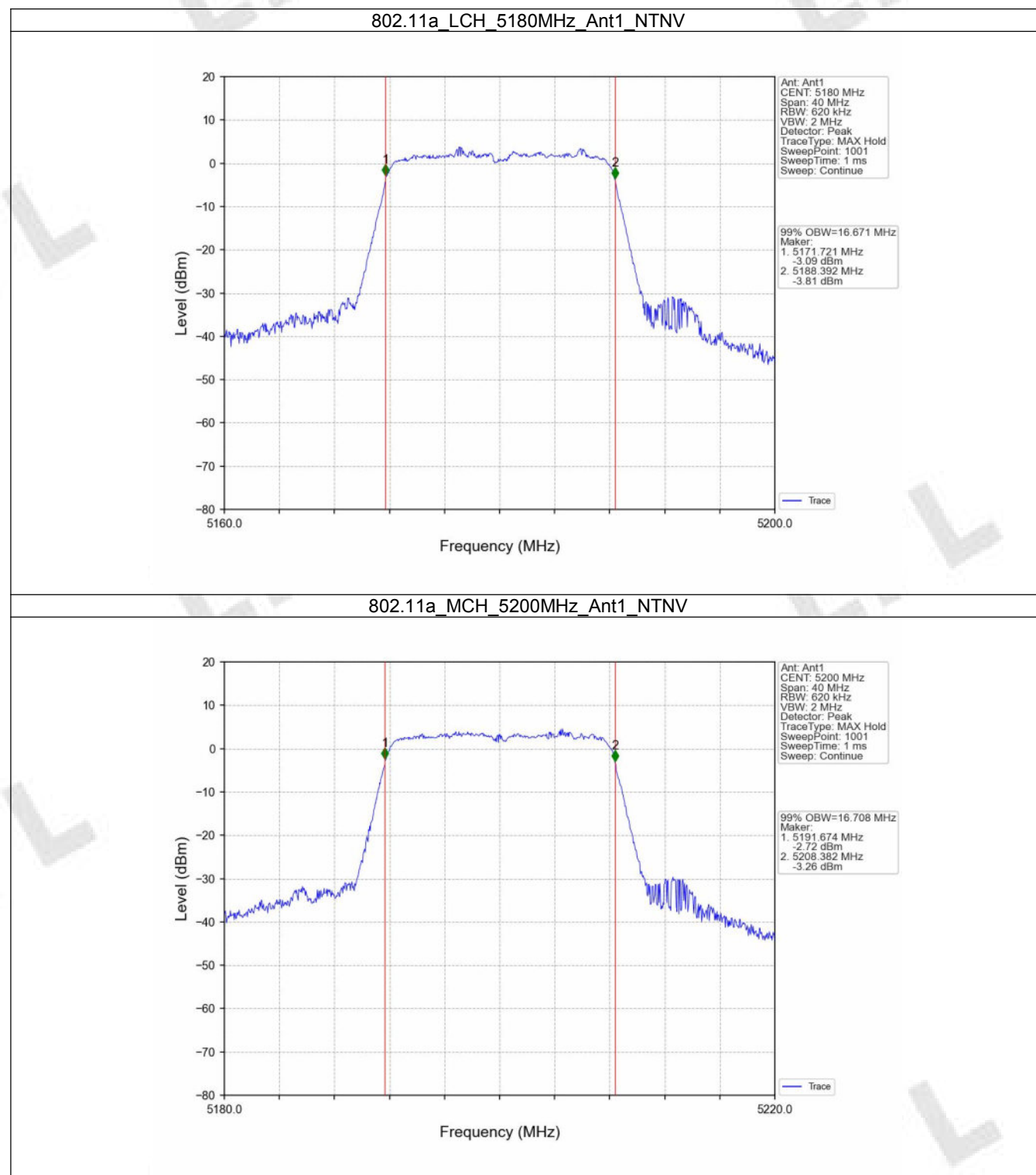
### 1.1 OBW

#### 1.1.1 Test Result

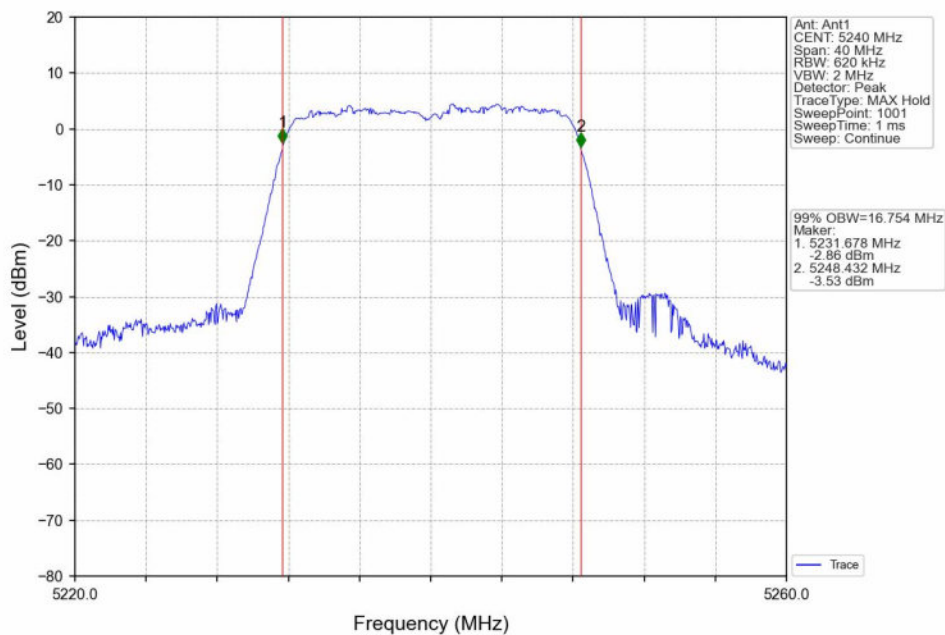
| Mode             | TX Type | Frequency (MHz) | ANT | 99% Occupied Bandwidth (MHz) | Verdict |
|------------------|---------|-----------------|-----|------------------------------|---------|
|                  |         |                 |     | Result                       |         |
| 802.11a          | SISO    | 5180            | 1   | 16.671                       | Pass    |
|                  |         | 5200            | 1   | 16.708                       | Pass    |
|                  |         | 5240            | 1   | 16.754                       | Pass    |
| 802.11n (HT20)   | SISO    | 5180            | 1   | 17.710                       | Pass    |
|                  |         | 5200            | 1   | 17.812                       | Pass    |
|                  |         | 5240            | 1   | 17.818                       | Pass    |
| 802.11n (HT40)   | SISO    | 5190            | 1   | 36.418                       | Pass    |
|                  |         | 5230            | 1   | 36.562                       | Pass    |
| 802.11ac (VHT20) | SISO    | 5180            | 1   | 17.781                       | Pass    |
|                  |         | 5200            | 1   | 17.813                       | Pass    |
|                  |         | 5240            | 1   | 17.806                       | Pass    |
| 802.11ac (VHT40) | SISO    | 5190            | 1   | 36.670                       | Pass    |
|                  |         | 5230            | 1   | 36.503                       | Pass    |
| 802.11ac (VHT80) | SISO    | 5210            | 1   | 75.041                       | Pass    |

| Mode             | TX Type | Frequency (MHz) | ANT | 99% Occupied Bandwidth (MHz) | Verdict |
|------------------|---------|-----------------|-----|------------------------------|---------|
|                  |         |                 |     | Result                       |         |
| 802.11a          | SISO    | 5180            | 2   | 16.687                       | Pass    |
|                  |         | 5200            | 2   | 16.697                       | Pass    |
|                  |         | 5240            | 2   | 16.706                       | Pass    |
| 802.11n (HT20)   | SISO    | 5180            | 2   | 17.779                       | Pass    |
|                  |         | 5200            | 2   | 17.780                       | Pass    |
|                  |         | 5240            | 2   | 17.775                       | Pass    |
| 802.11n (HT40)   | SISO    | 5190            | 2   | 36.395                       | Pass    |
|                  |         | 5230            | 2   | 36.538                       | Pass    |
| 802.11ac (VHT20) | SISO    | 5180            | 2   | 17.761                       | Pass    |
|                  |         | 5200            | 2   | 17.761                       | Pass    |
|                  |         | 5240            | 2   | 17.758                       | Pass    |
| 802.11ac (VHT40) | SISO    | 5190            | 2   | 36.260                       | Pass    |
|                  |         | 5230            | 2   | 36.677                       | Pass    |
| 802.11ac (VHT80) | SISO    | 5210            | 2   | 75.115                       | Pass    |

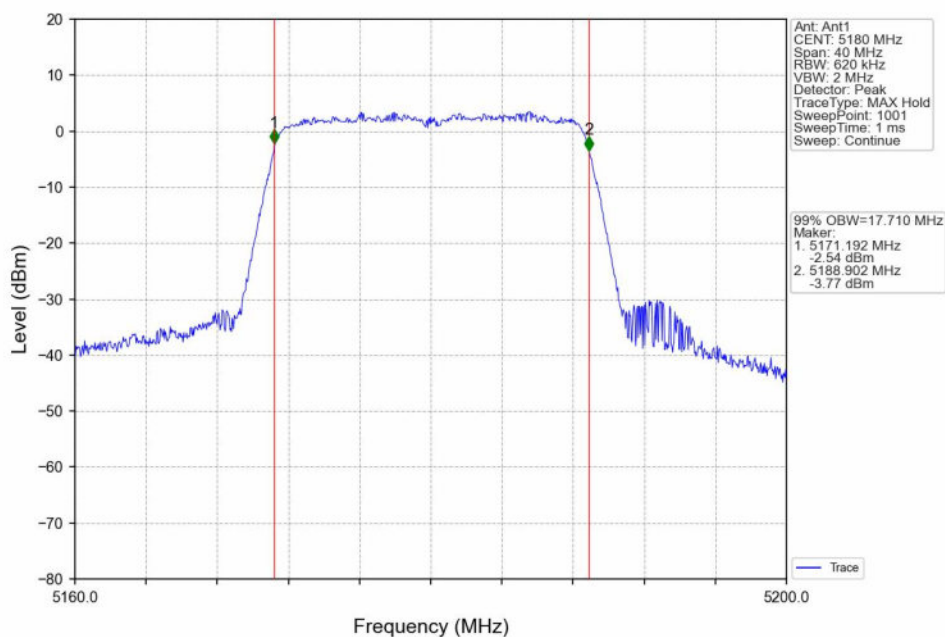
## 1.1.2 Test Graph



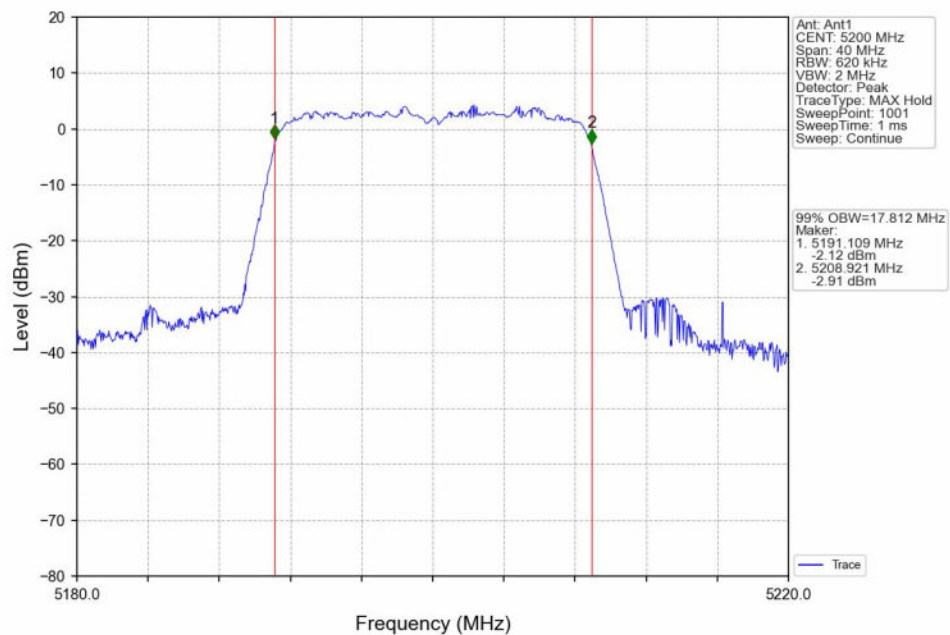
802.11a\_HCH\_5240MHz\_Ant1\_NTNV



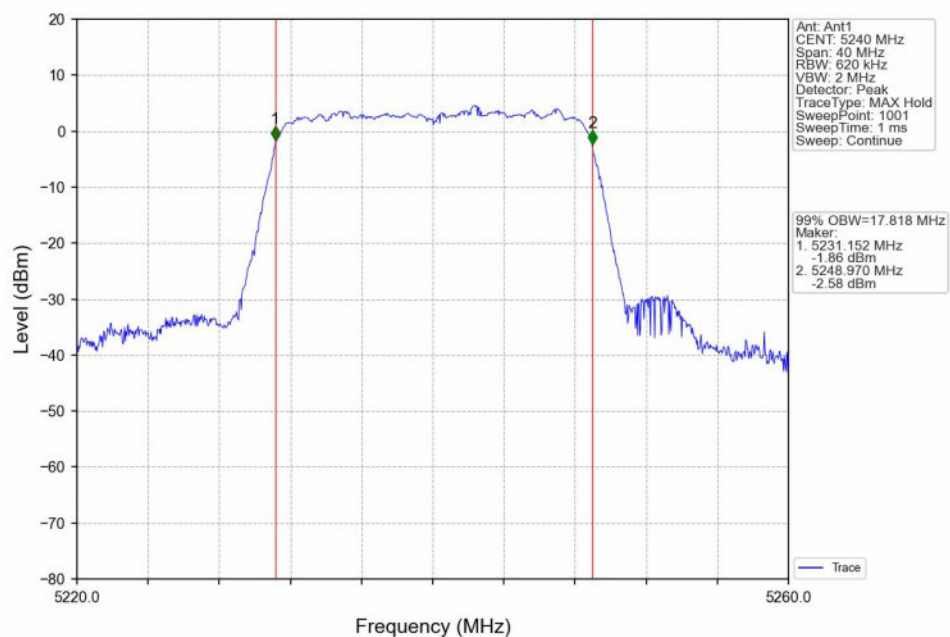
802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



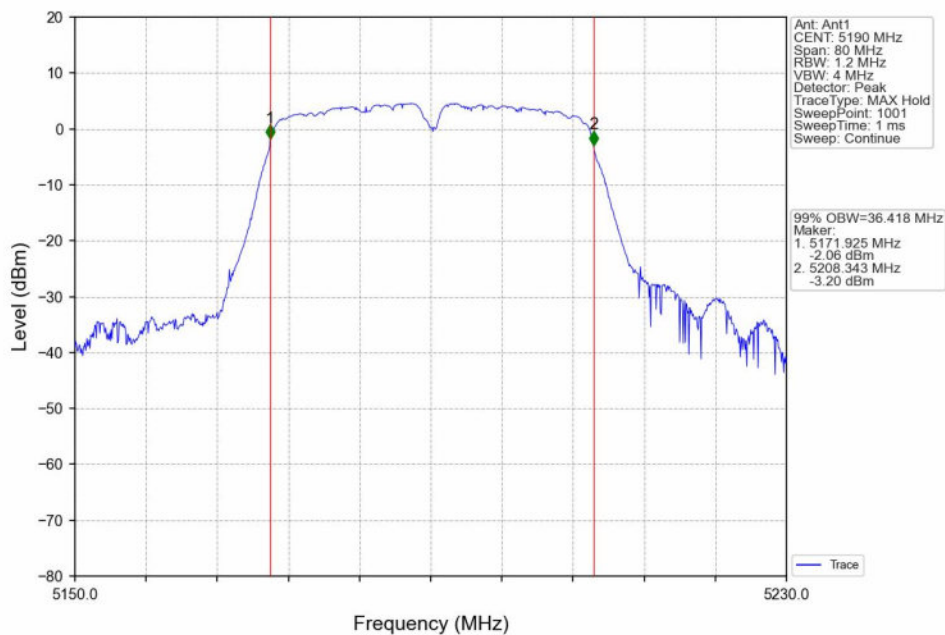
802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



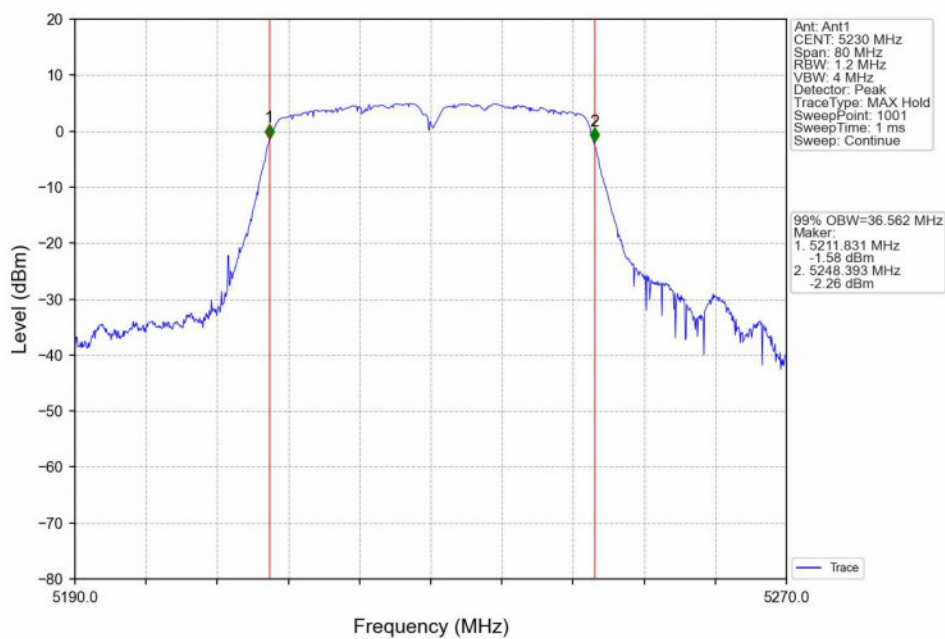
802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



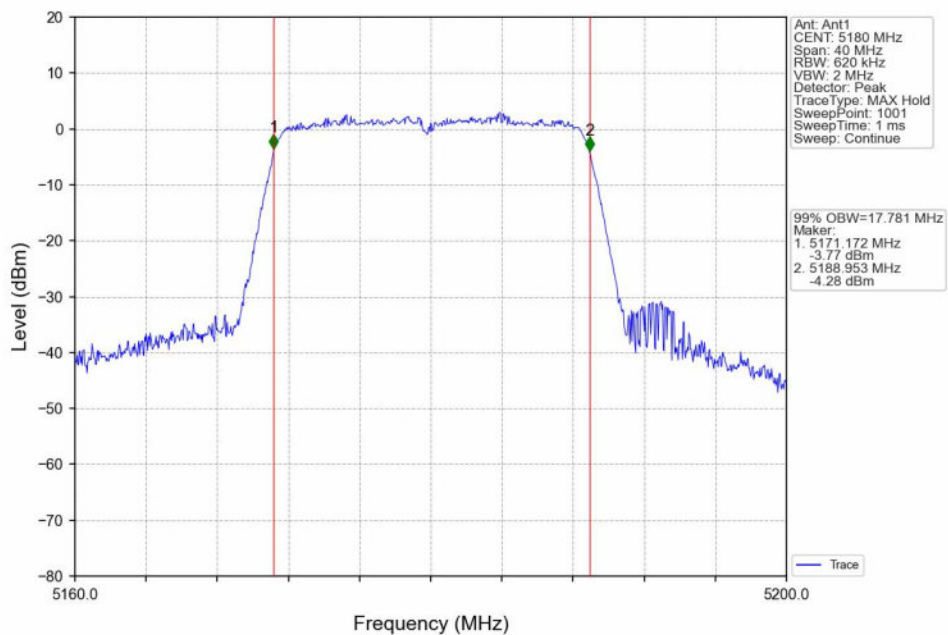
802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



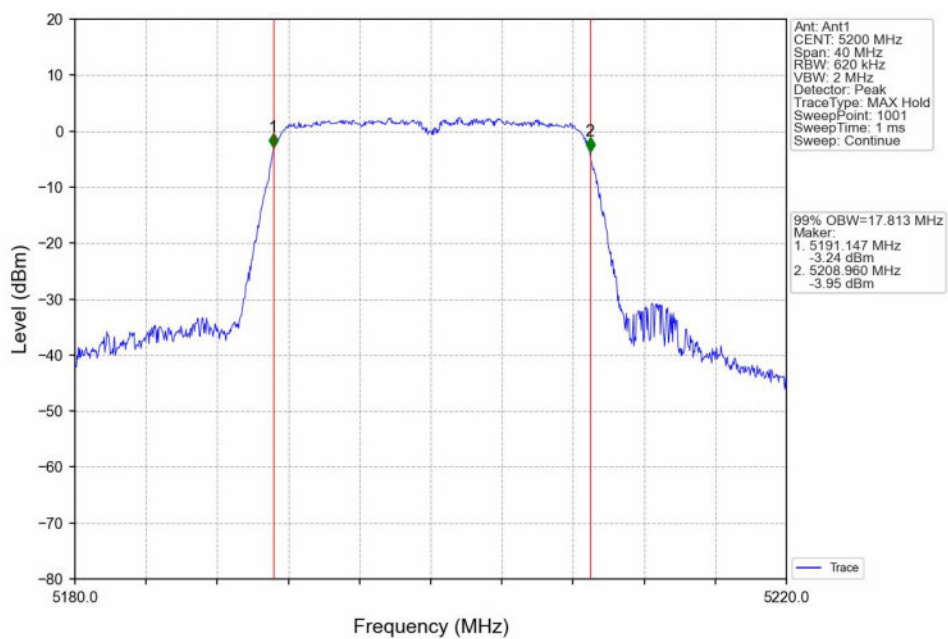
802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



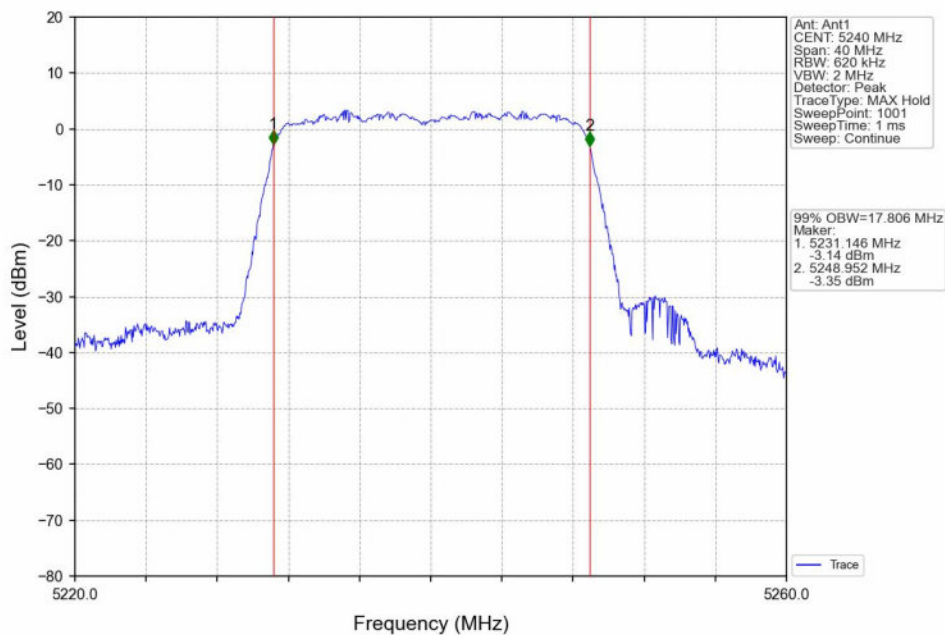
802.11ac(VHT20)\_LCH\_5180MHz\_Ant1\_NTNV



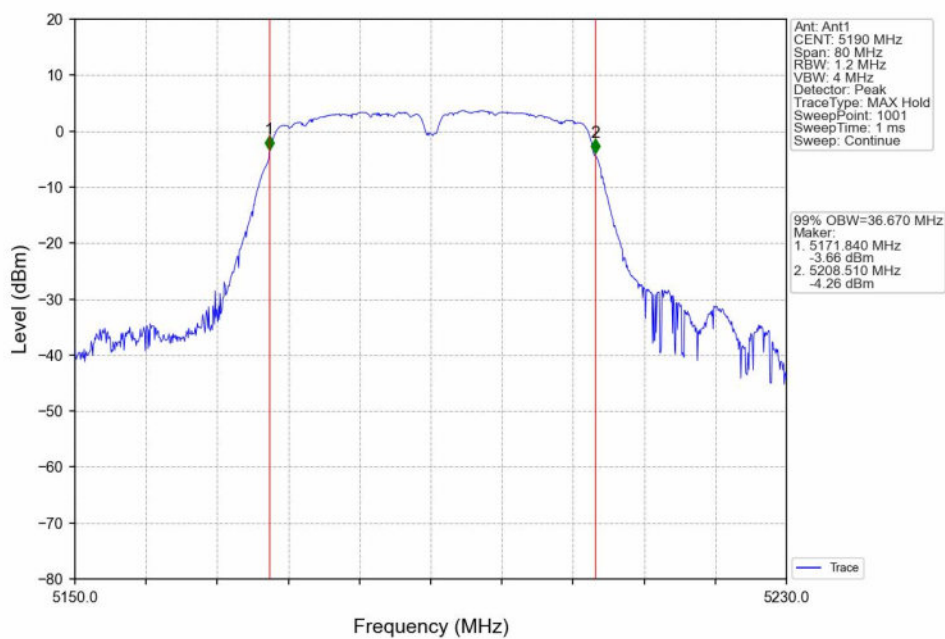
802.11ac(VHT20)\_MCH\_5200MHz\_Ant1\_NTNV



802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV

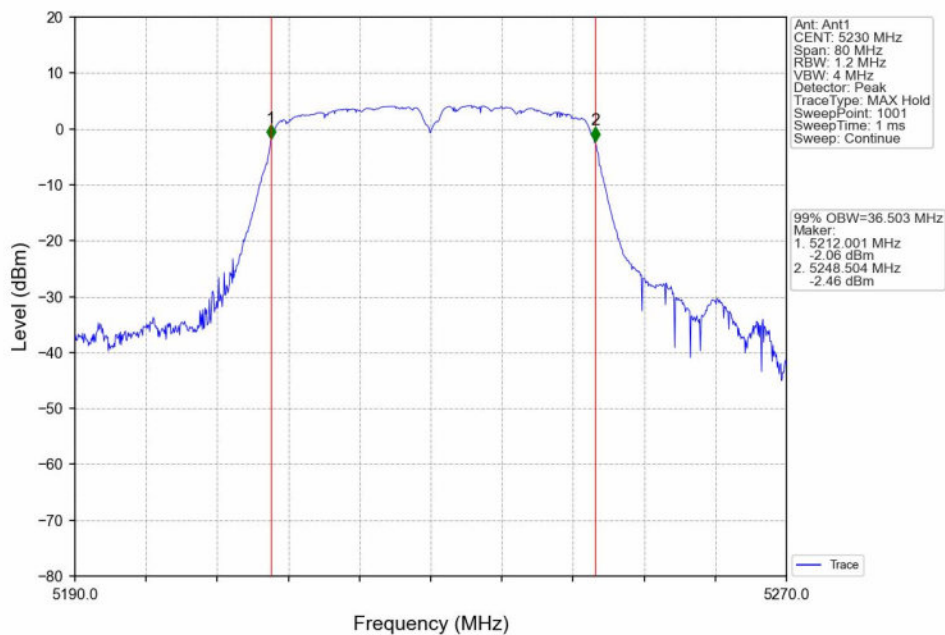


802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV

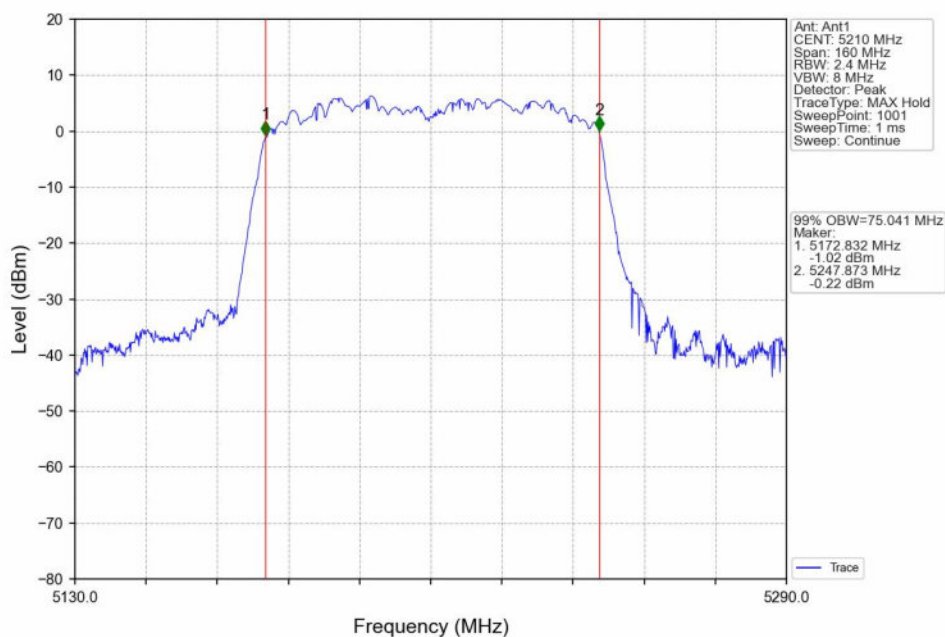




802.11ac(VHT40)\_HCH\_5230MHz\_Ant1\_NTNV

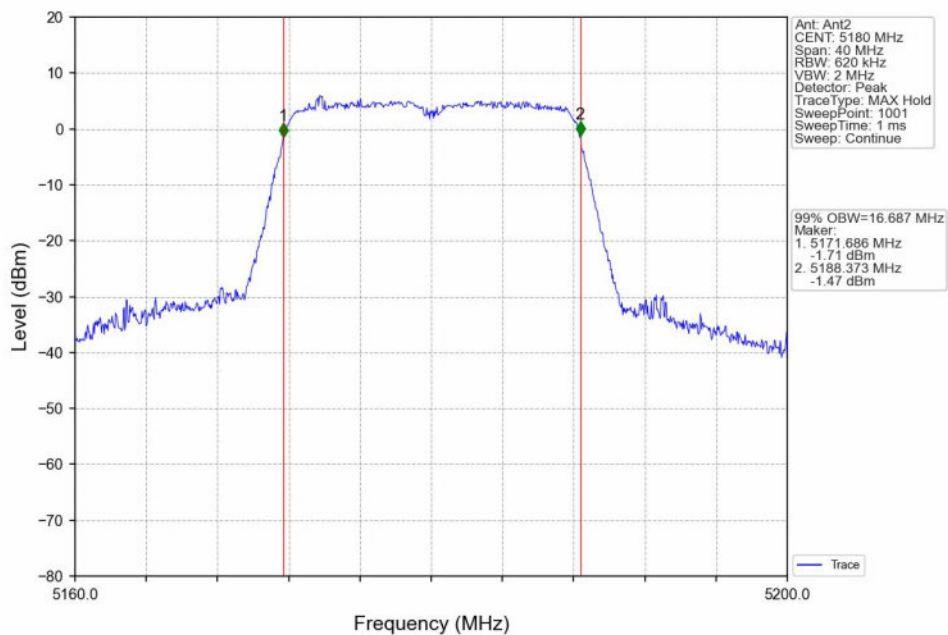


802.11ac(VHT80)\_MCH\_5210MHz\_Ant1\_NTNV

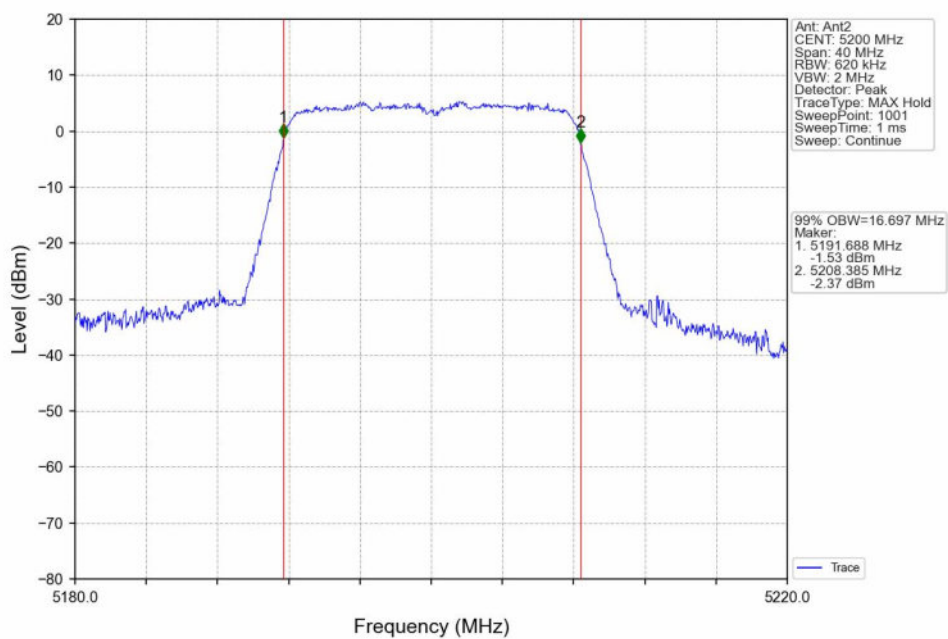




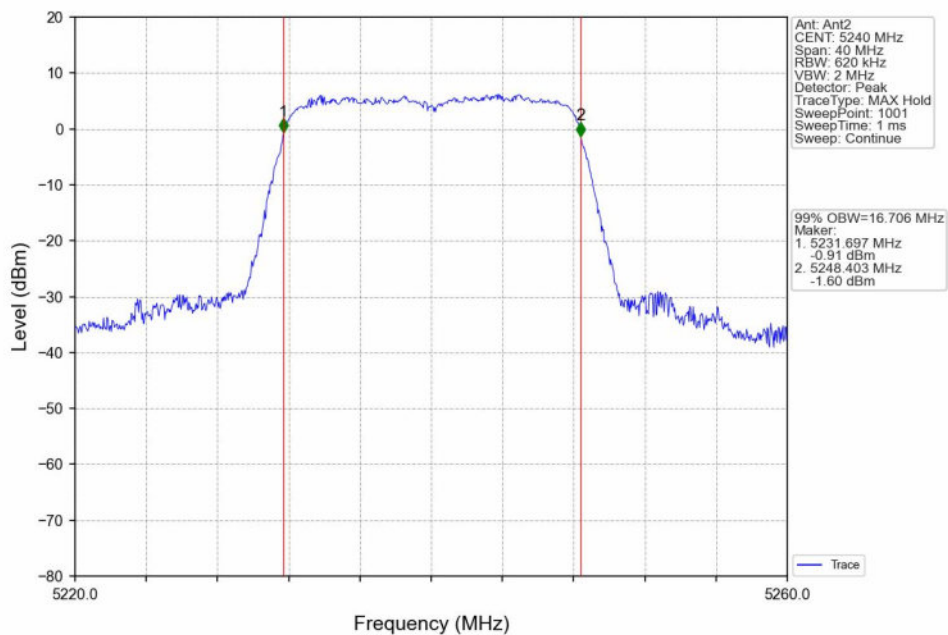
802.11a\_LCH\_5180MHz\_Ant2\_NTNV



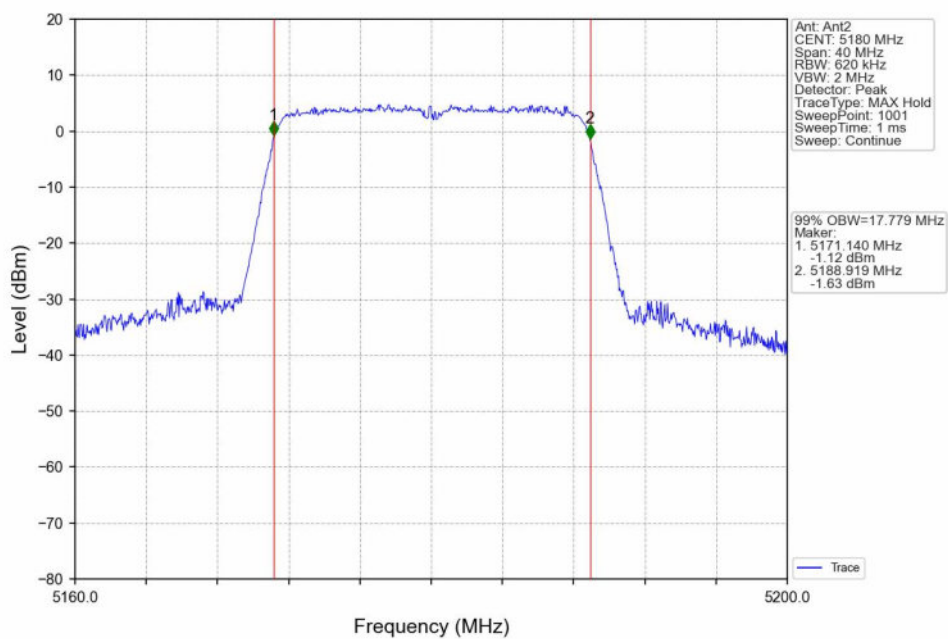
802.11a\_MCH\_5200MHz\_Ant2\_NTNV



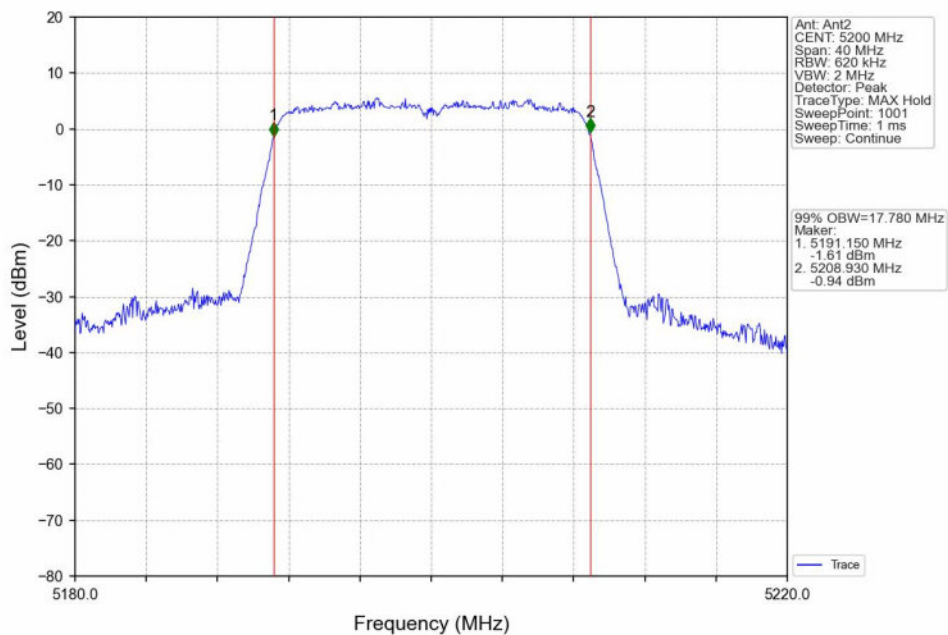
802.11a\_HCH\_5240MHz\_Ant2\_NTNV



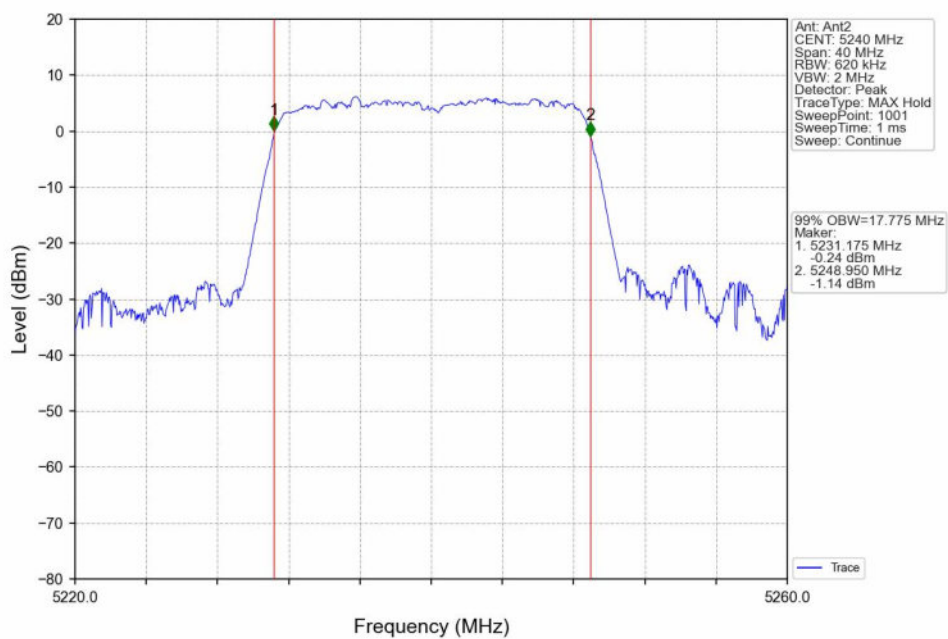
802.11n(HT20)\_LCH\_5180MHz\_Ant2\_NTNV



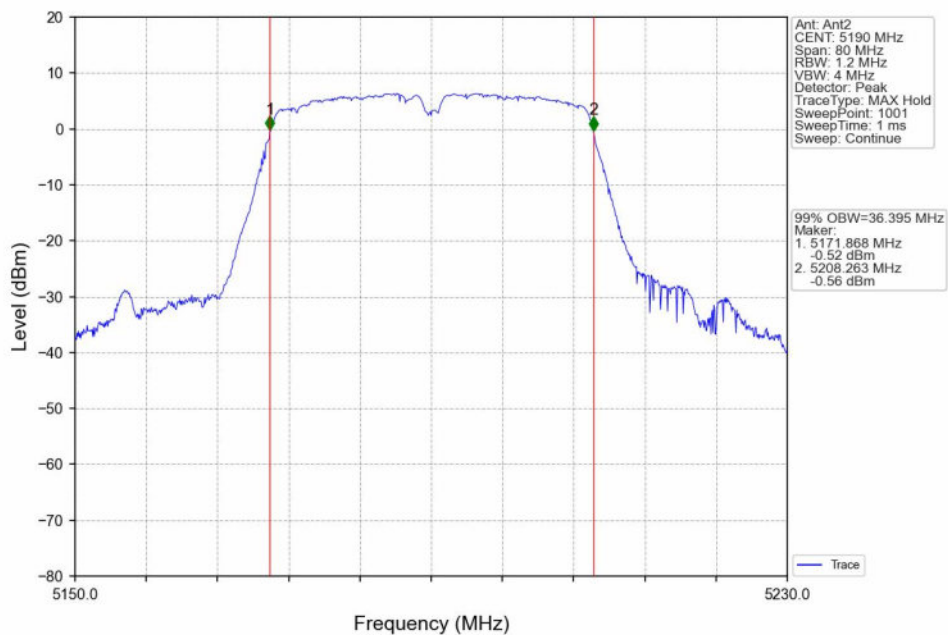
802.11n(HT20)\_MCH\_5200MHz\_Ant2\_NTNV



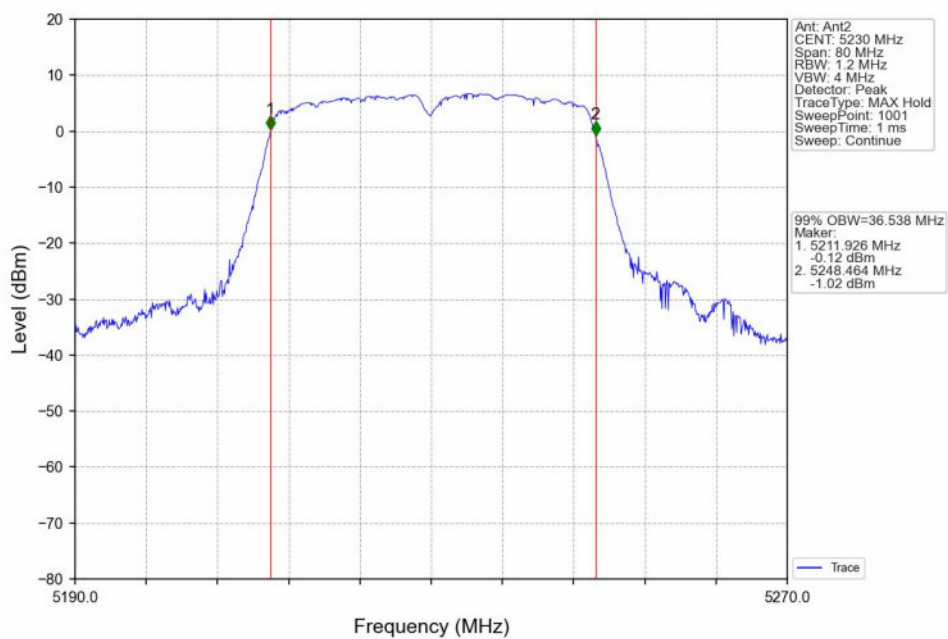
802.11n(HT20)\_HCH\_5240MHz\_Ant2\_NTNV



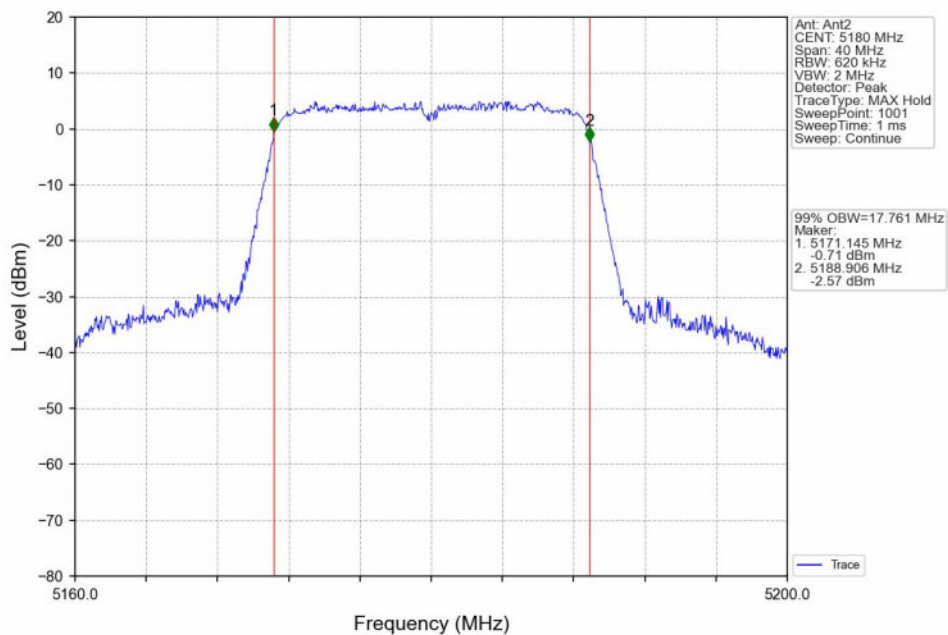
802.11n(HT40)\_LCH\_5190MHz\_Ant2\_NTNV



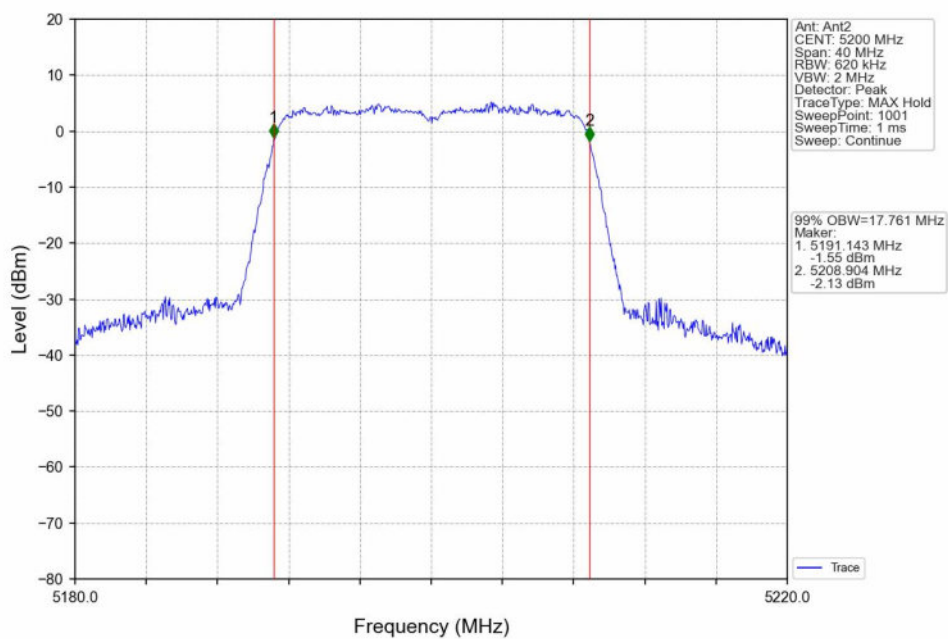
802.11n(HT40)\_HCH\_5230MHz\_Ant2\_NTNV



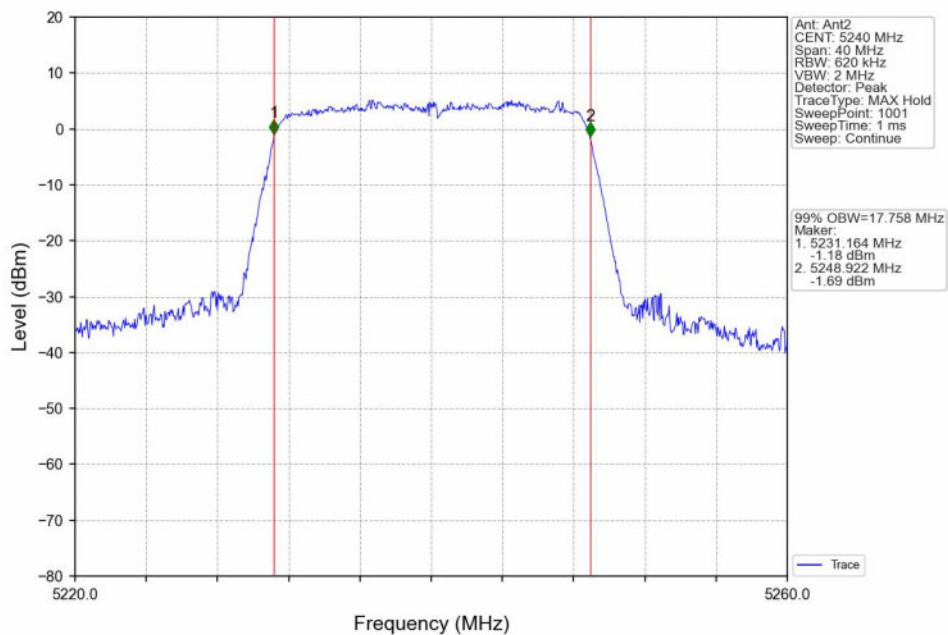
802.11ac(VHT20)\_LCH\_5180MHz\_Ant2\_NTNV



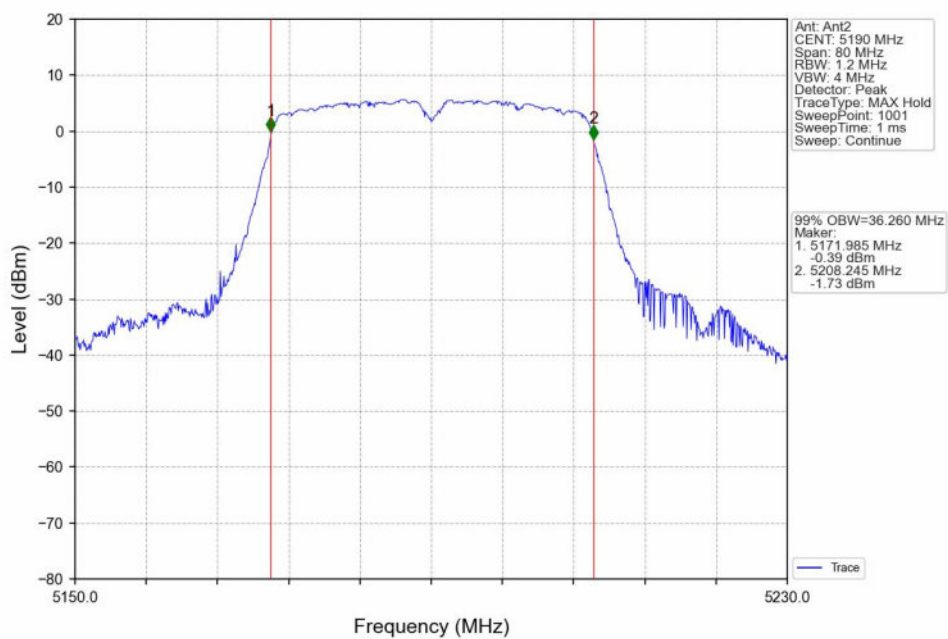
802.11ac(VHT20)\_MCH\_5200MHz\_Ant2\_NTNV



802.11ac(VHT20)\_HCH\_5240MHz\_Ant2\_NTNV

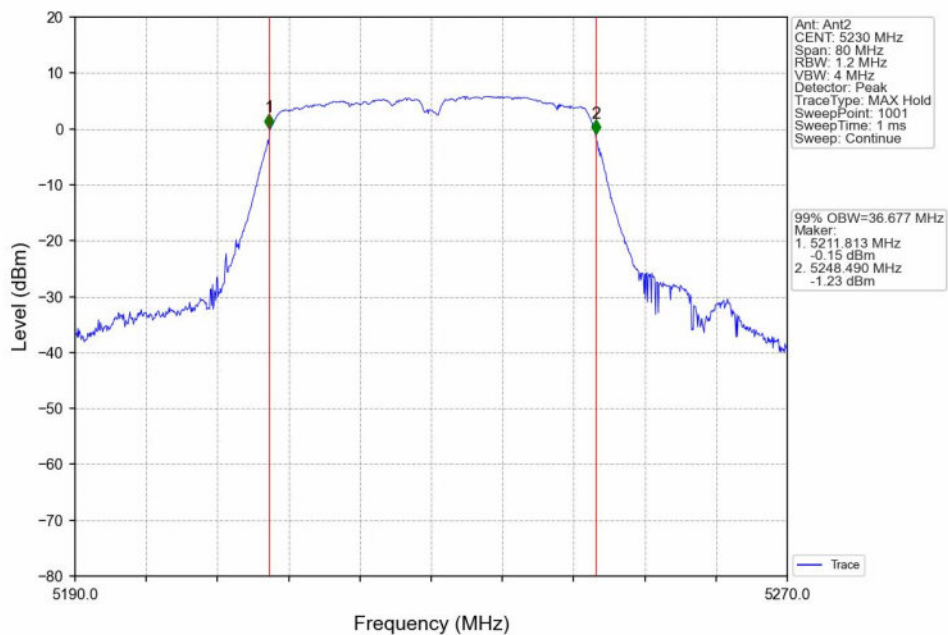


802.11ac(VHT40)\_LCH\_5190MHz\_Ant2\_NTNV

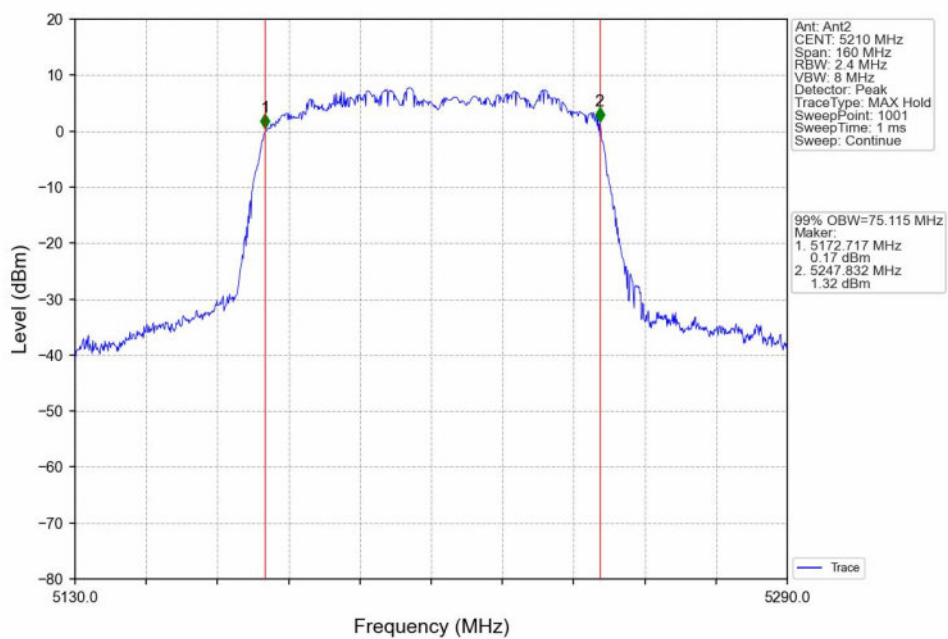




802.11ac(VHT40)\_HCH\_5230MHz\_Ant2\_NTNV



802.11ac(VHT80)\_MCH\_5210MHz\_Ant2\_NTNV





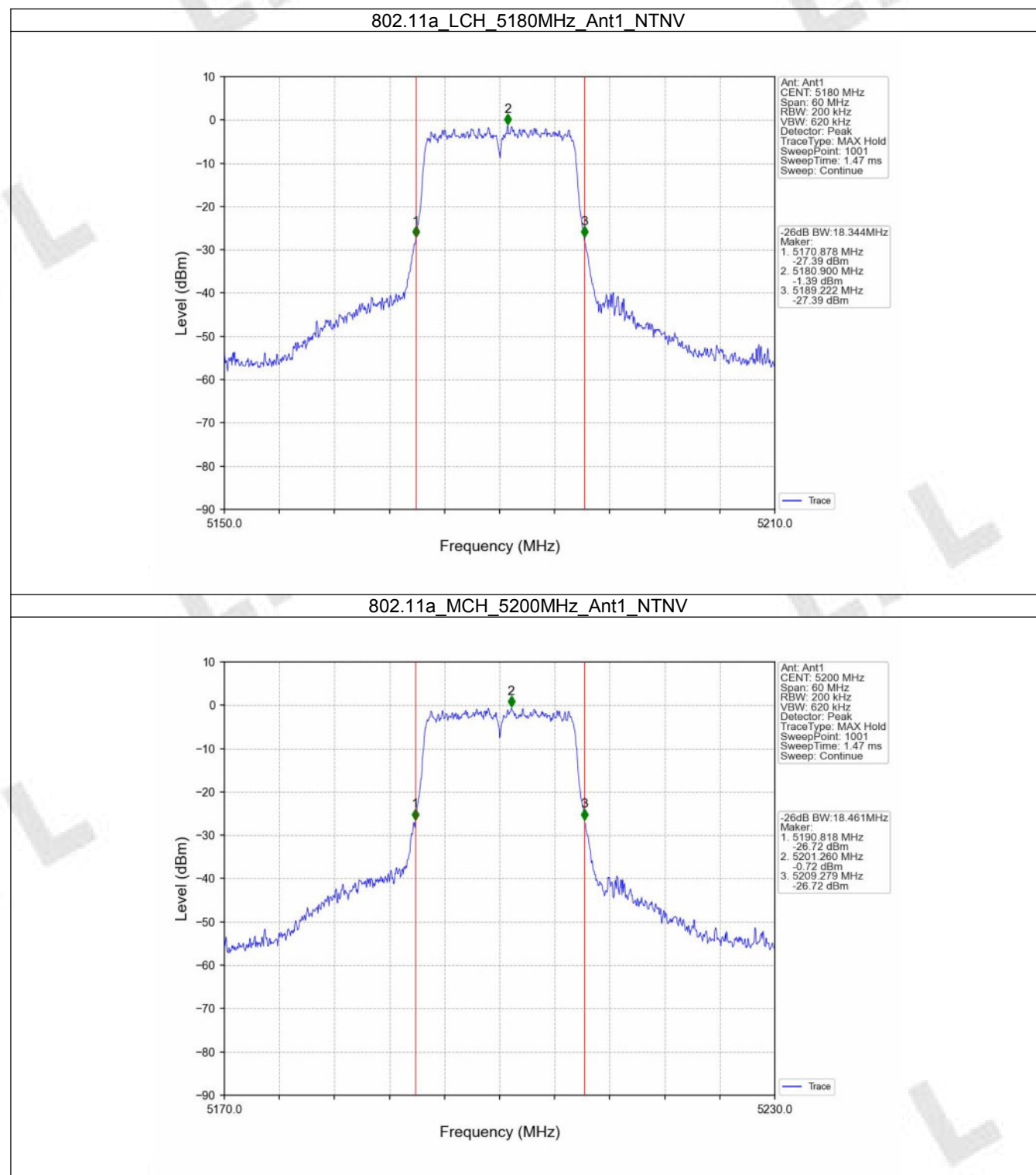
## 1.2 26dB BW

## 1.2.1 Test Result

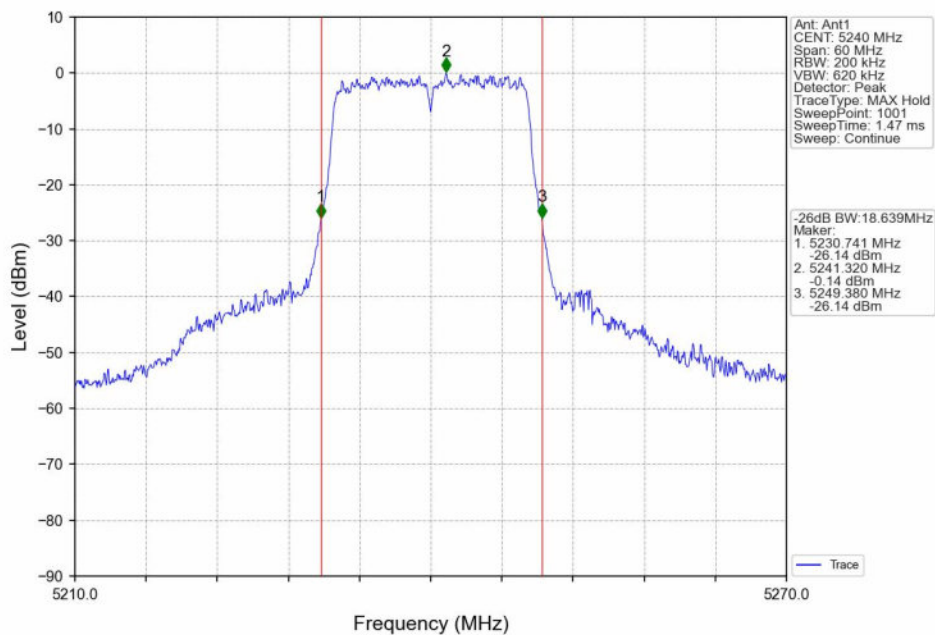
| Mode             | TX Type | Frequency (MHz) | ANT | 26dB Bandwidth (MHz) | Verdict |
|------------------|---------|-----------------|-----|----------------------|---------|
|                  |         |                 |     | Result               |         |
| 802.11a          | SISO    | 5180            | 1   | 18.344               | Pass    |
|                  |         | 5200            | 1   | 18.461               | Pass    |
|                  |         | 5240            | 1   | 18.639               | Pass    |
| 802.11n (HT20)   | SISO    | 5180            | 1   | 19.351               | Pass    |
|                  |         | 5200            | 1   | 19.460               | Pass    |
|                  |         | 5240            | 1   | 19.437               | Pass    |
| 802.11n (HT40)   | SISO    | 5190            | 1   | 41.284               | Pass    |
|                  |         | 5230            | 1   | 41.202               | Pass    |
| 802.11ac (VHT20) | SISO    | 5180            | 1   | 19.419               | Pass    |
|                  |         | 5200            | 1   | 19.470               | Pass    |
|                  |         | 5240            | 1   | 19.383               | Pass    |
| 802.11ac (VHT40) | SISO    | 5190            | 1   | 41.846               | Pass    |
|                  |         | 5230            | 1   | 41.589               | Pass    |
| 802.11ac (VHT80) | SISO    | 5210            | 1   | 81.796               | Pass    |

| Mode             | TX Type | Frequency (MHz) | ANT | 26dB Bandwidth (MHz) | Verdict |
|------------------|---------|-----------------|-----|----------------------|---------|
|                  |         |                 |     | Result               |         |
| 802.11a          | SISO    | 5180            | 2   | 18.524               | Pass    |
|                  |         | 5200            | 2   | 18.615               | Pass    |
|                  |         | 5240            | 2   | 18.629               | Pass    |
| 802.11n (HT20)   | SISO    | 5180            | 2   | 19.348               | Pass    |
|                  |         | 5200            | 2   | 19.393               | Pass    |
|                  |         | 5240            | 2   | 19.370               | Pass    |
| 802.11n (HT40)   | SISO    | 5190            | 2   | 41.214               | Pass    |
|                  |         | 5230            | 2   | 40.988               | Pass    |
| 802.11ac (VHT20) | SISO    | 5180            | 2   | 19.403               | Pass    |
|                  |         | 5200            | 2   | 19.400               | Pass    |
|                  |         | 5240            | 2   | 19.292               | Pass    |
| 802.11ac (VHT40) | SISO    | 5190            | 2   | 40.733               | Pass    |
|                  |         | 5230            | 2   | 41.505               | Pass    |
| 802.11ac (VHT80) | SISO    | 5210            | 2   | 81.610               | Pass    |

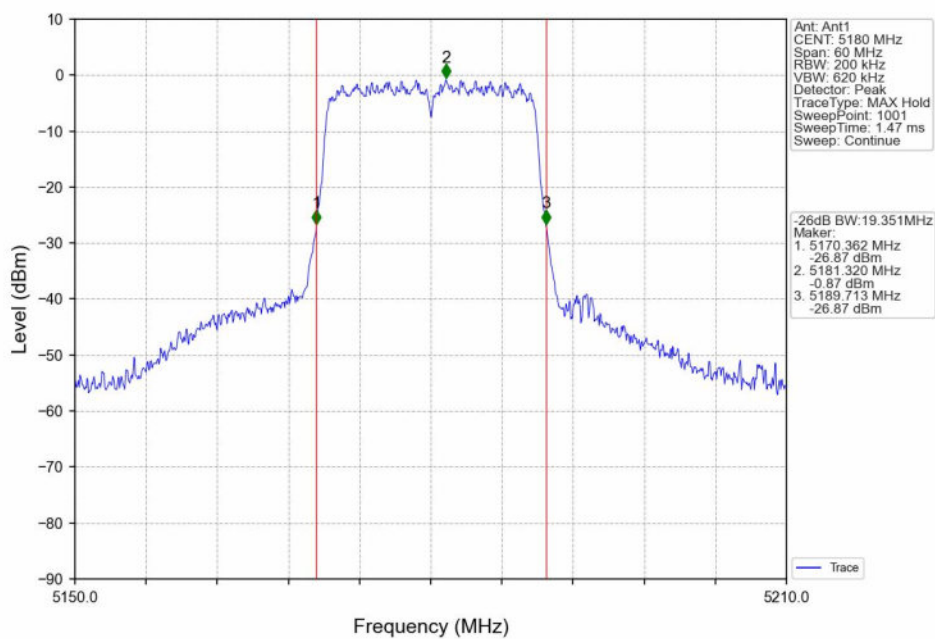
## 1.2.2 Test Graph



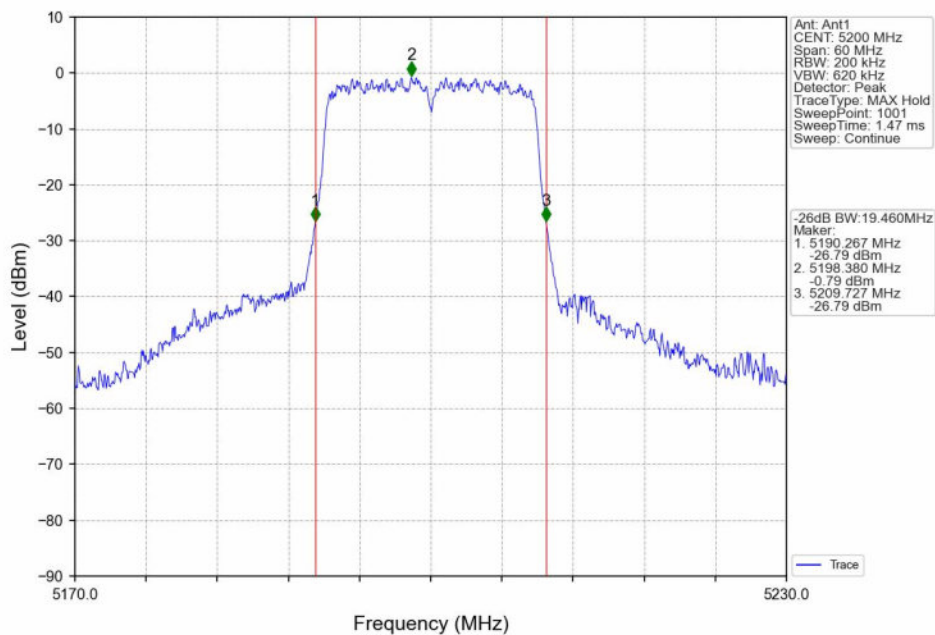
802.11a\_HCH\_5240MHz\_Ant1\_NTNV



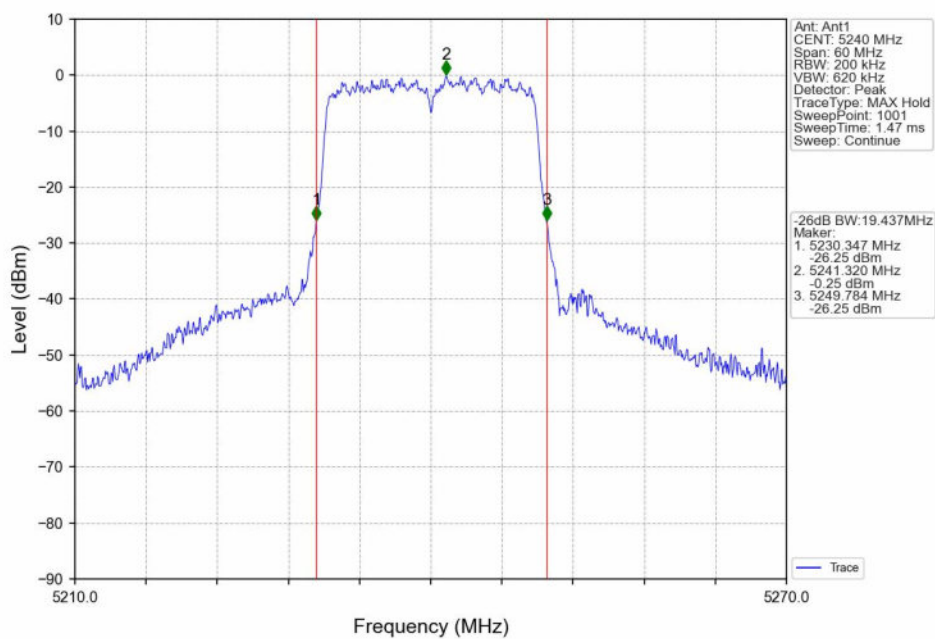
802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



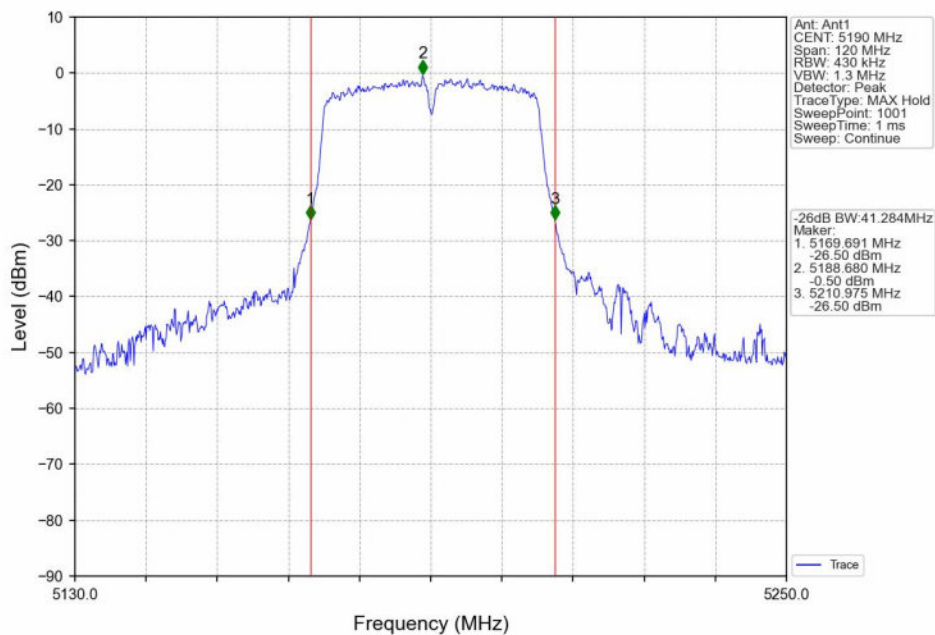
802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



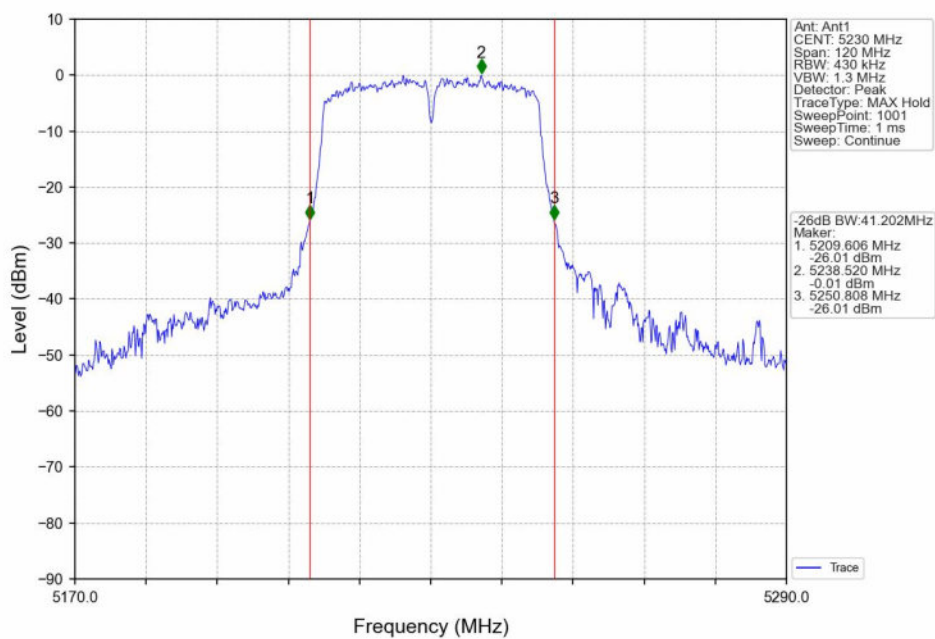
802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



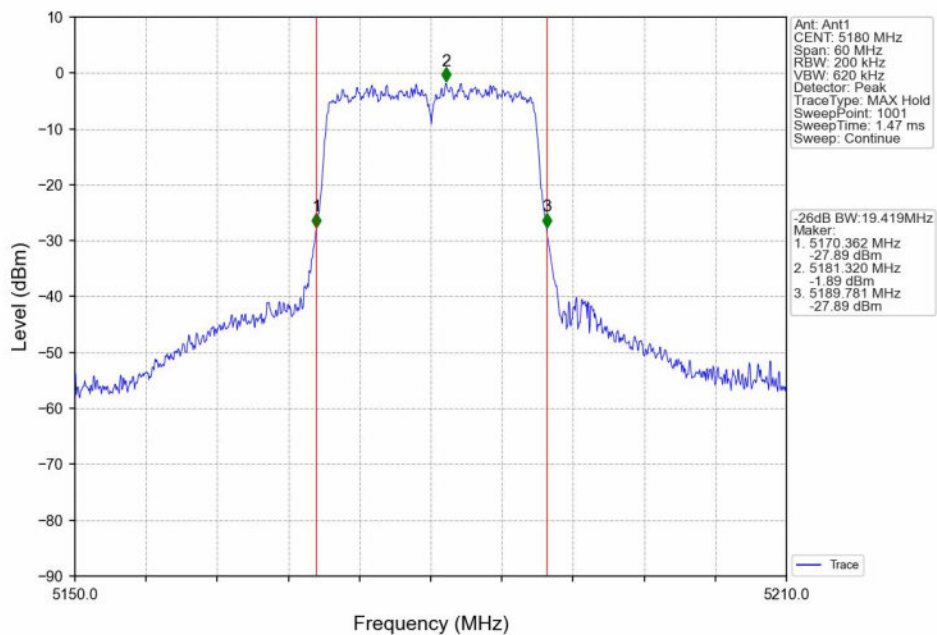
802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



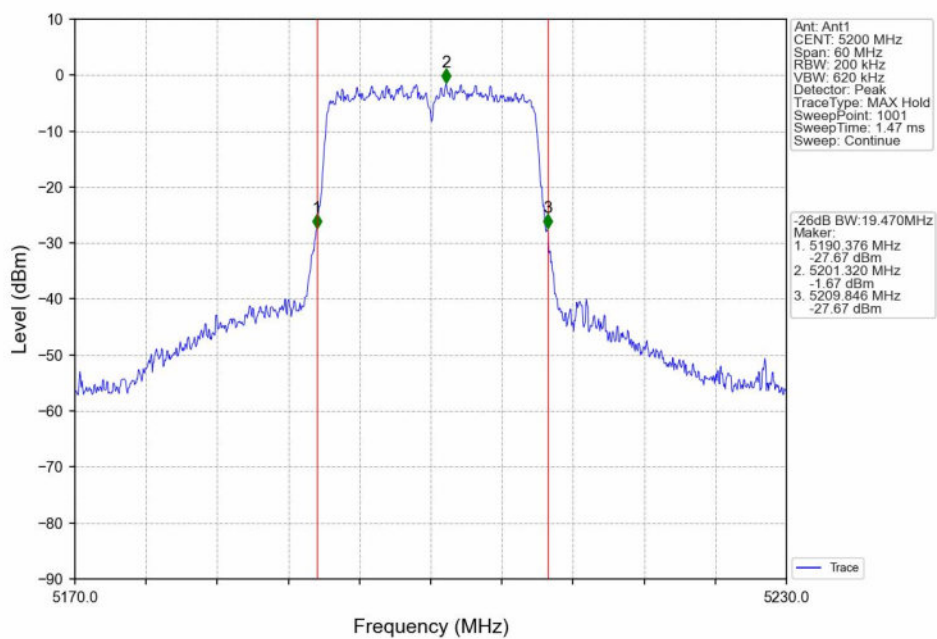
802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



802.11ac(VHT20)\_LCH\_5180MHz\_Ant1\_NTNV

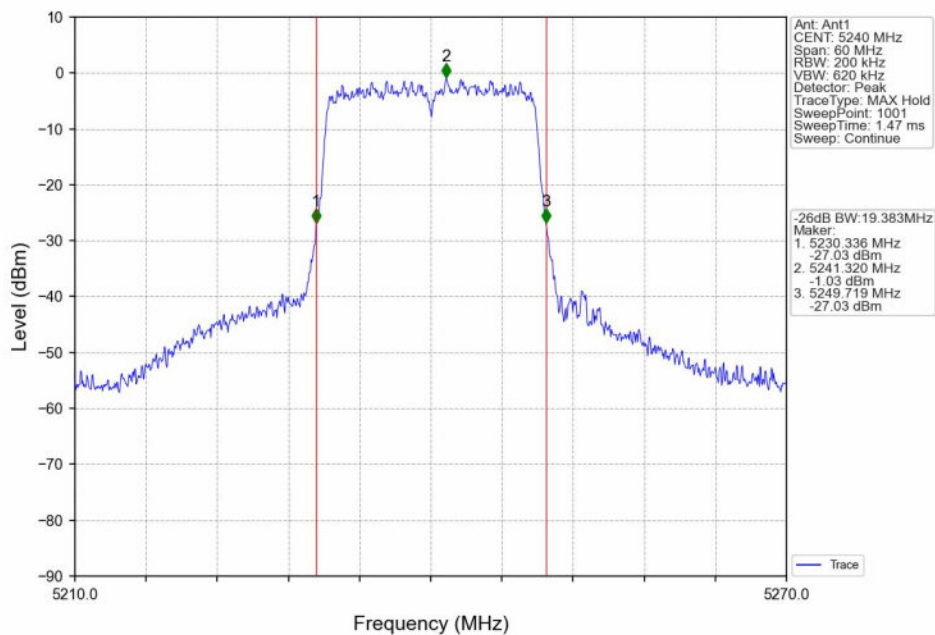


802.11ac(VHT20)\_MCH\_5200MHz\_Ant1\_NTNV

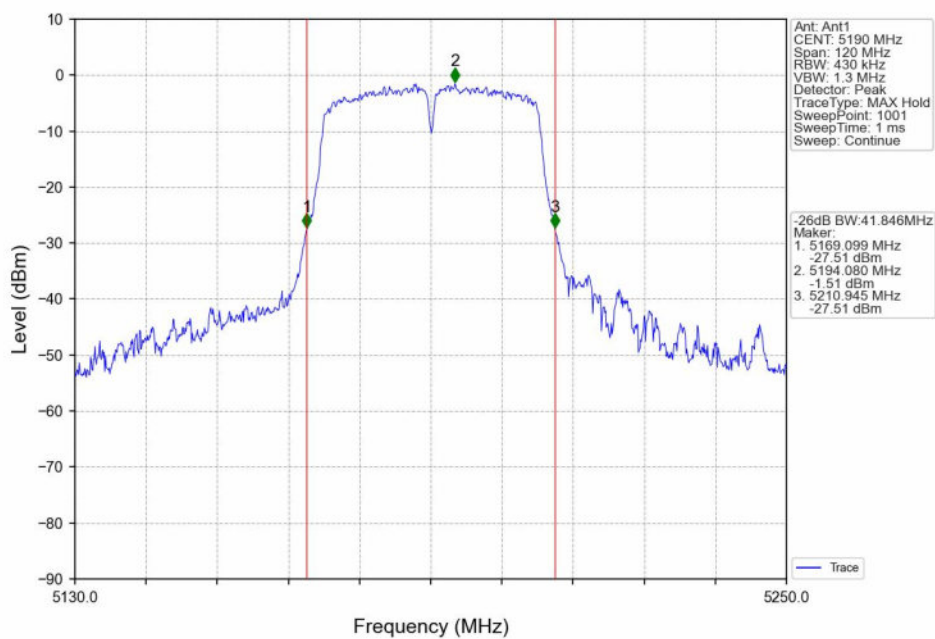




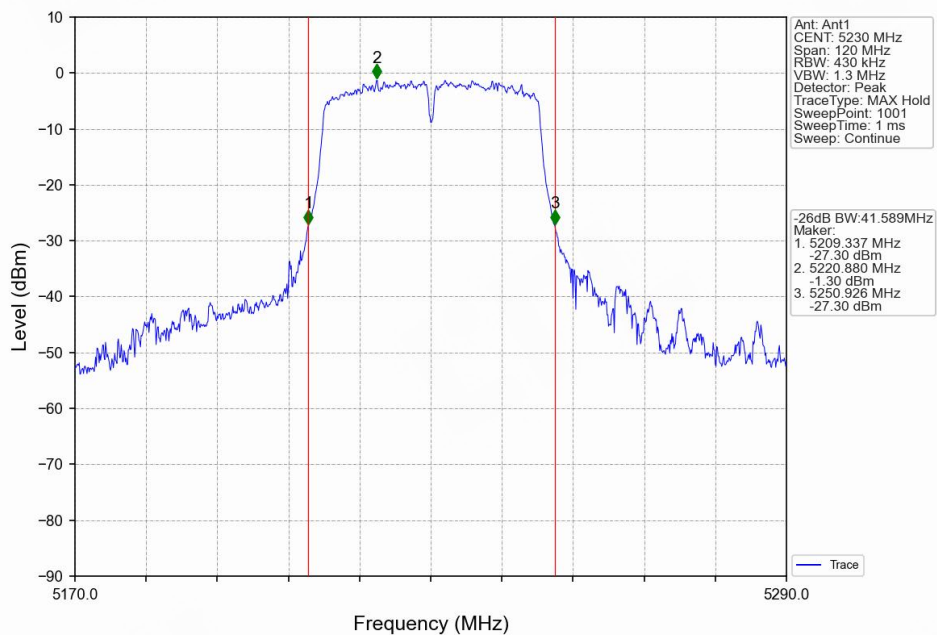
802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV



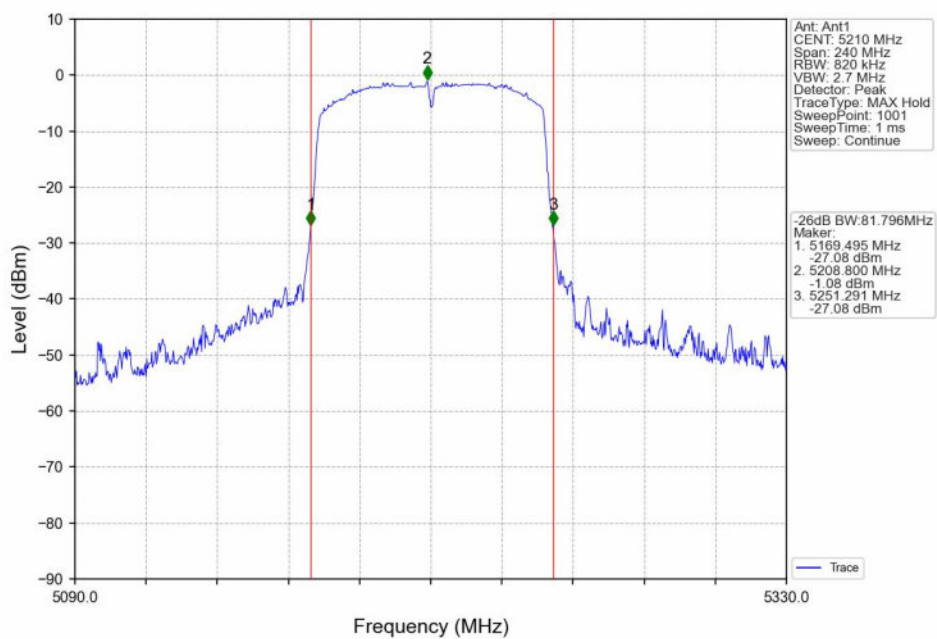
802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV



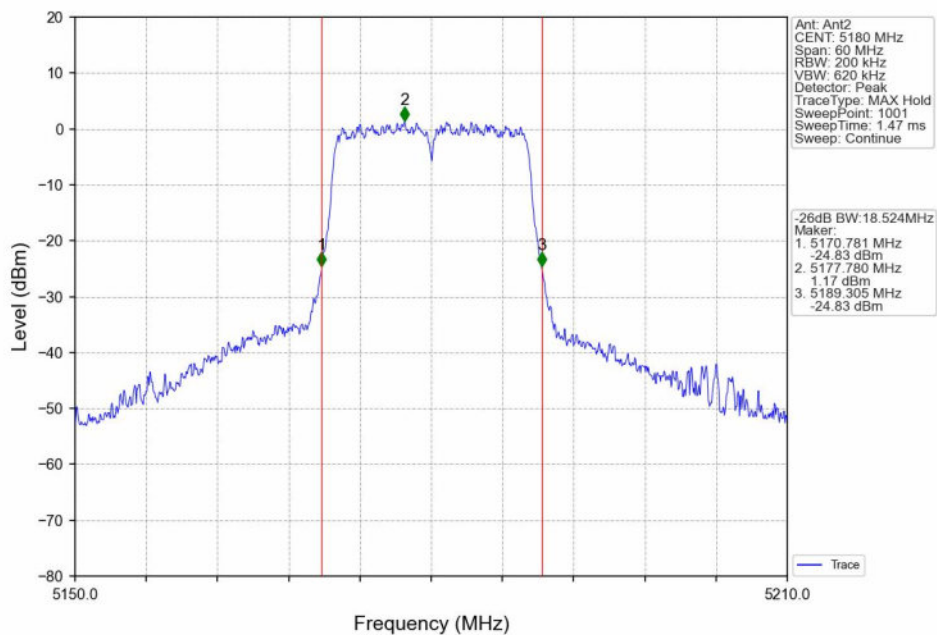
802.11ac(VHT40)\_HCH\_5230MHz\_Ant1\_NTNV



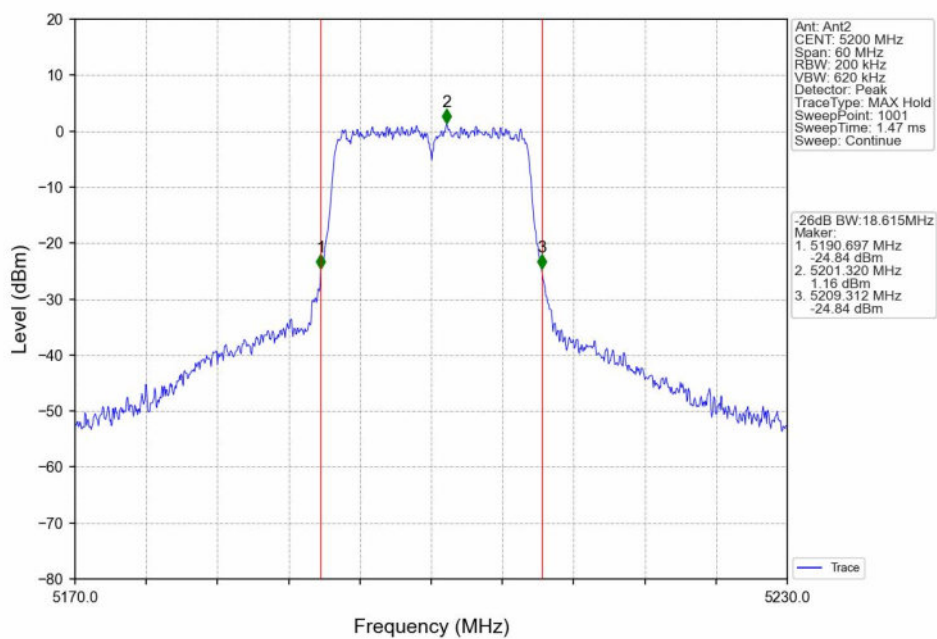
802.11ac(VHT80)\_MCH\_5210MHz\_Ant1\_NTNV



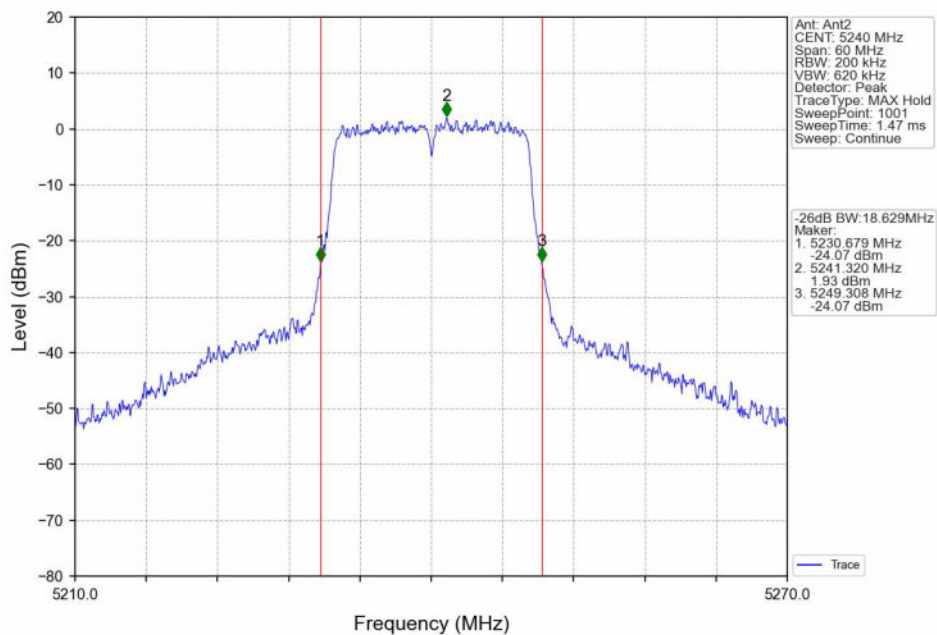
802.11a\_LCH\_5180MHz\_Ant2\_NTNV



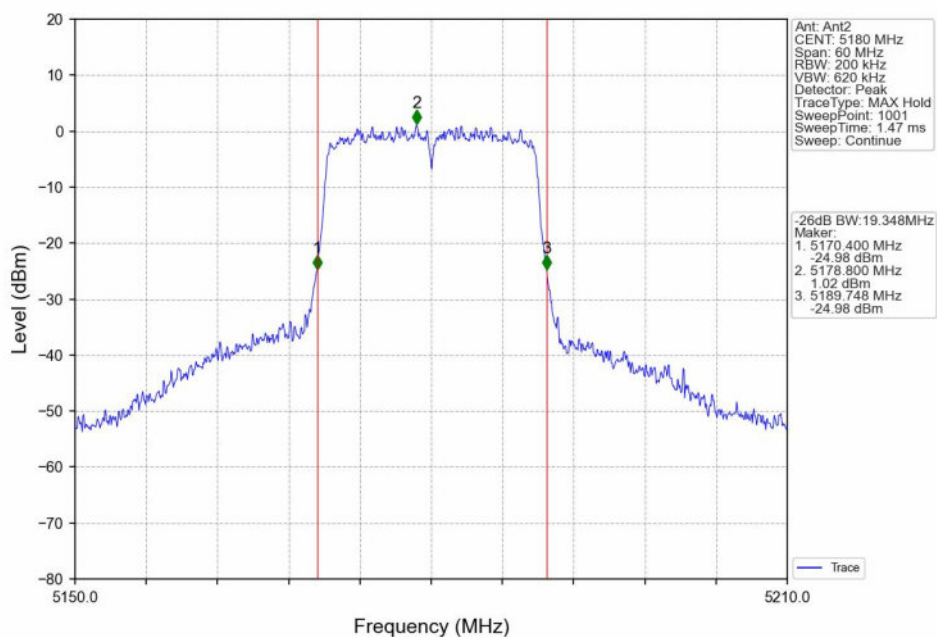
802.11a\_MCH\_5200MHz\_Ant2\_NTNV



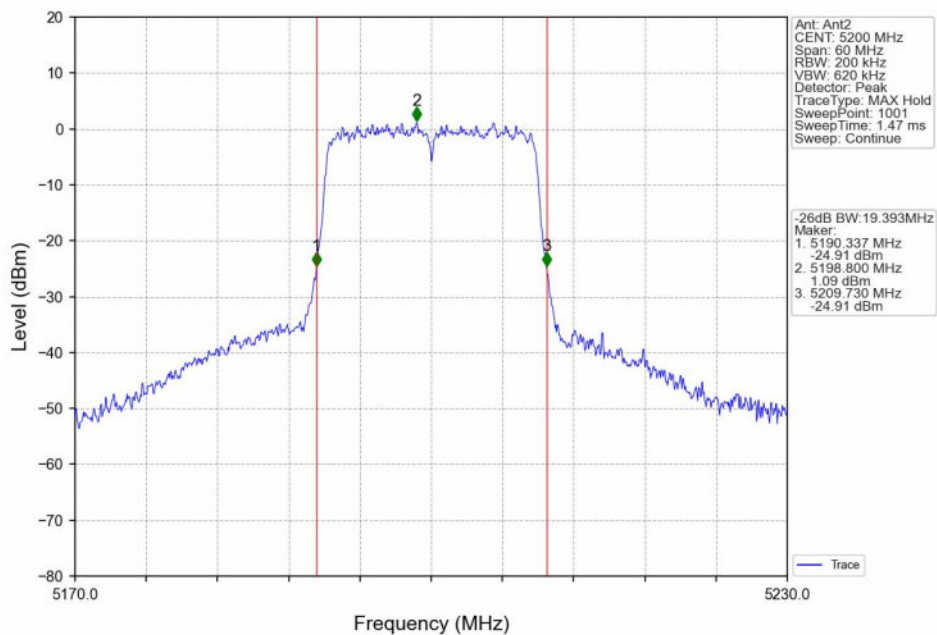
802.11a\_HCH\_5240MHz\_Ant2\_NTNV



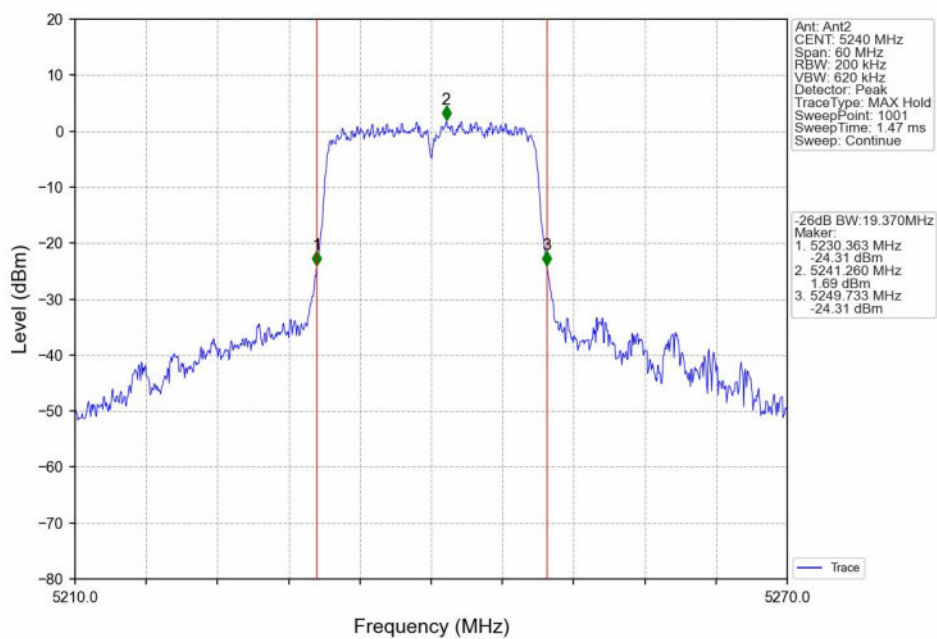
802.11n(HT20)\_LCH\_5180MHz\_Ant2\_NTNV



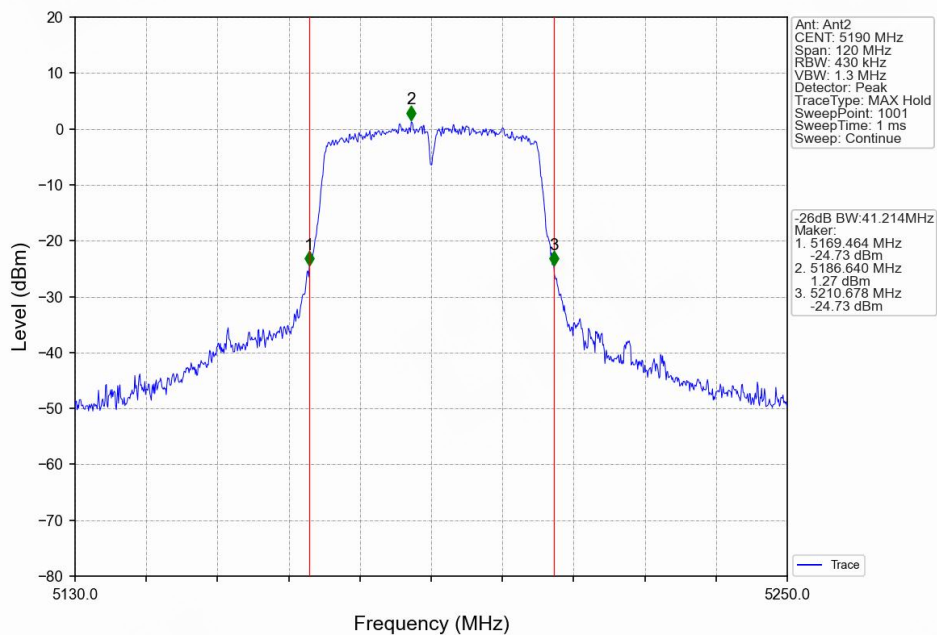
802.11n(HT20)\_MCH\_5200MHz\_Ant2\_NTNV



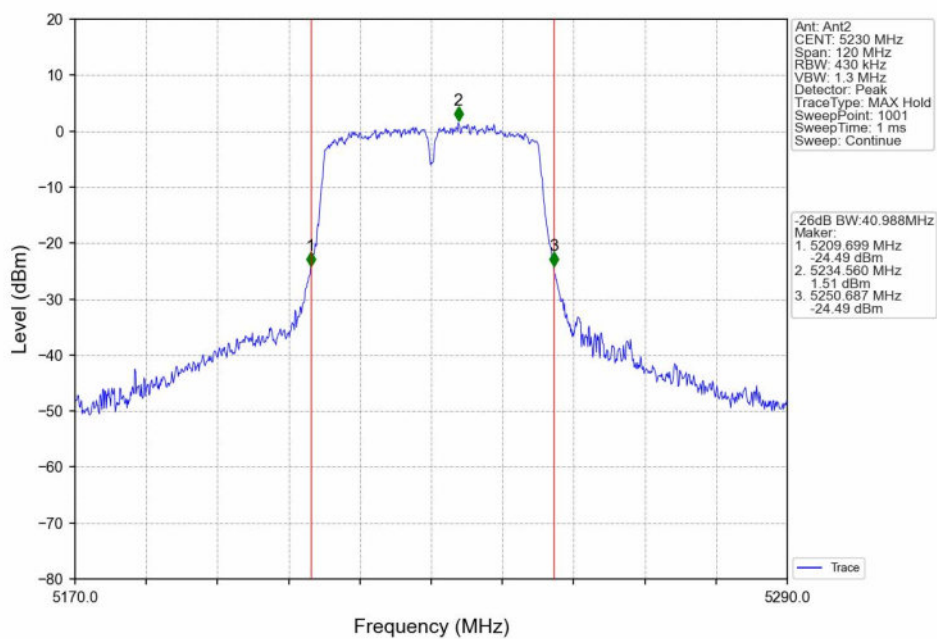
802.11n(HT20)\_HCH\_5240MHz\_Ant2\_NTNV



802.11n(HT40)\_LCH\_5190MHz\_Ant2\_NTNV

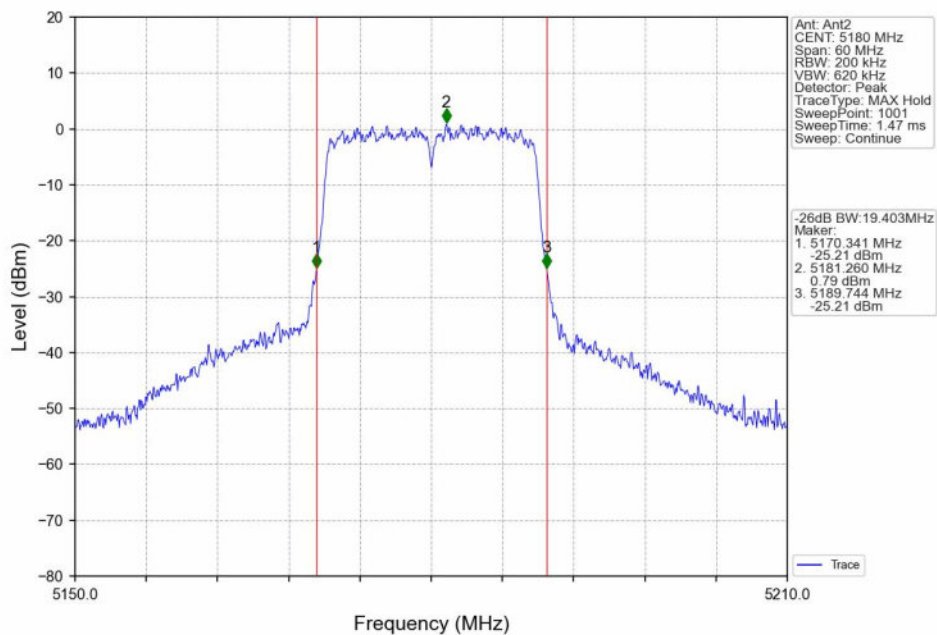


802.11n(HT40)\_HCH\_5230MHz\_Ant2\_NTNV

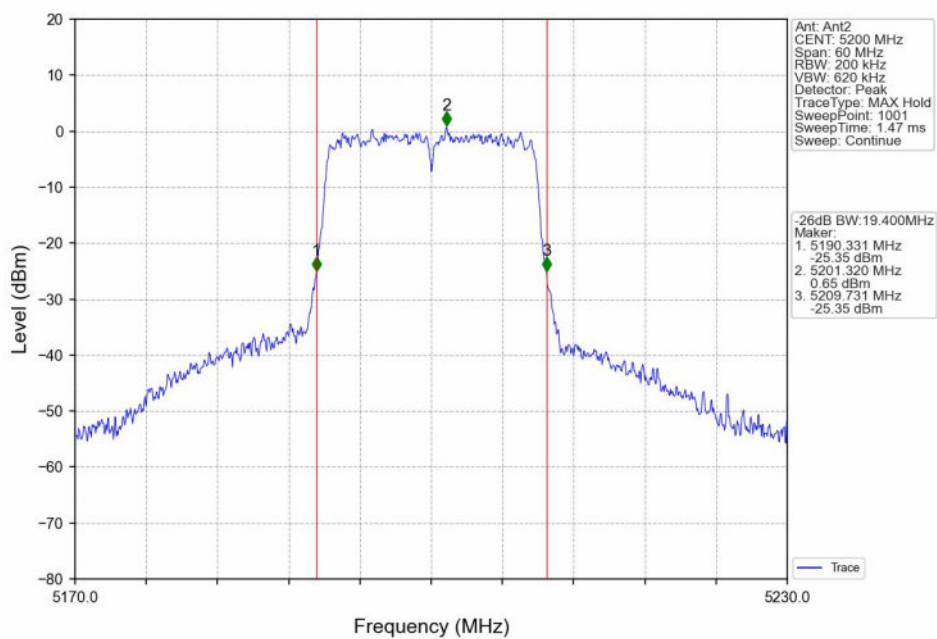




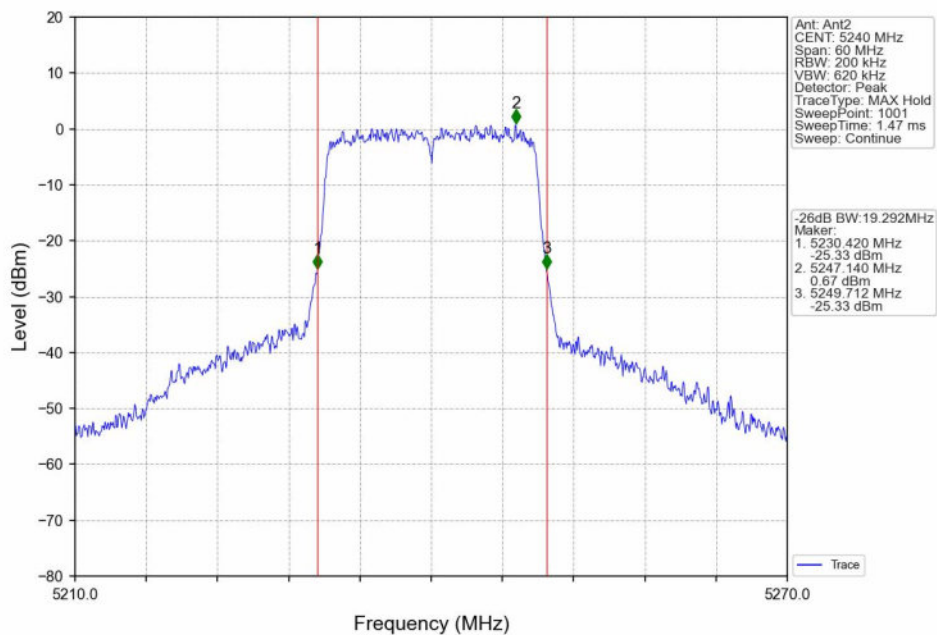
802.11ac(VHT20)\_LCH\_5180MHz\_Ant2\_NTNV



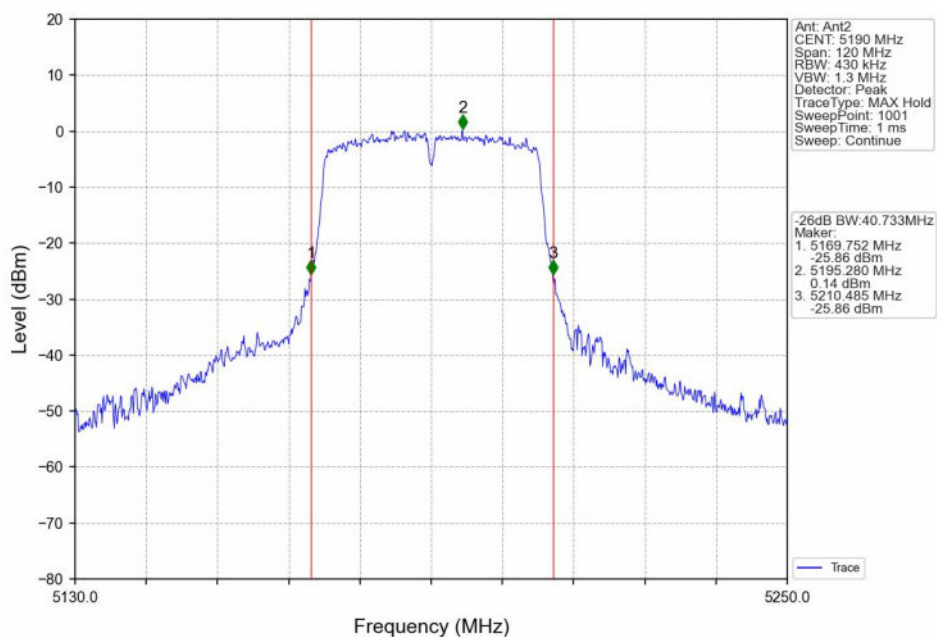
802.11ac(VHT20)\_MCH\_5200MHz\_Ant2\_NTNV



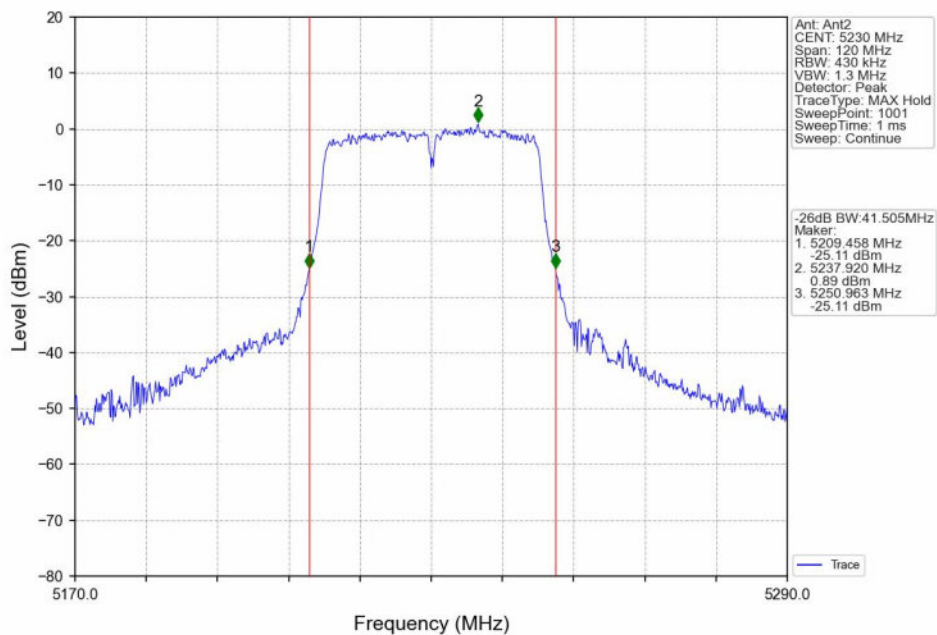
802.11ac(VHT20)\_HCH\_5240MHz\_Ant2\_NTNV



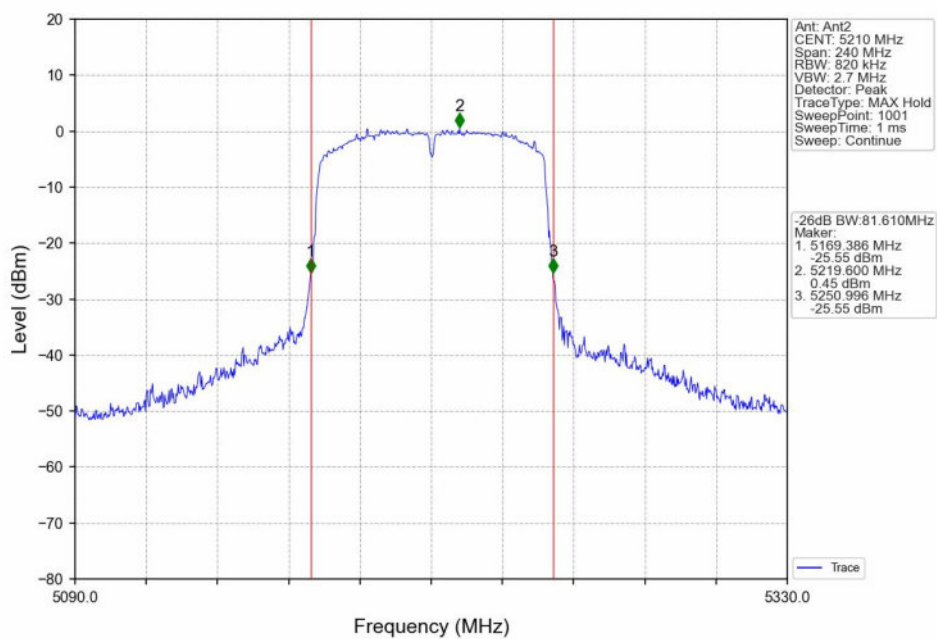
802.11ac(VHT40)\_LCH\_5190MHz\_Ant2\_NTNV



802.11ac(VHT40)\_HCH\_5230MHz\_Ant2\_NTNV

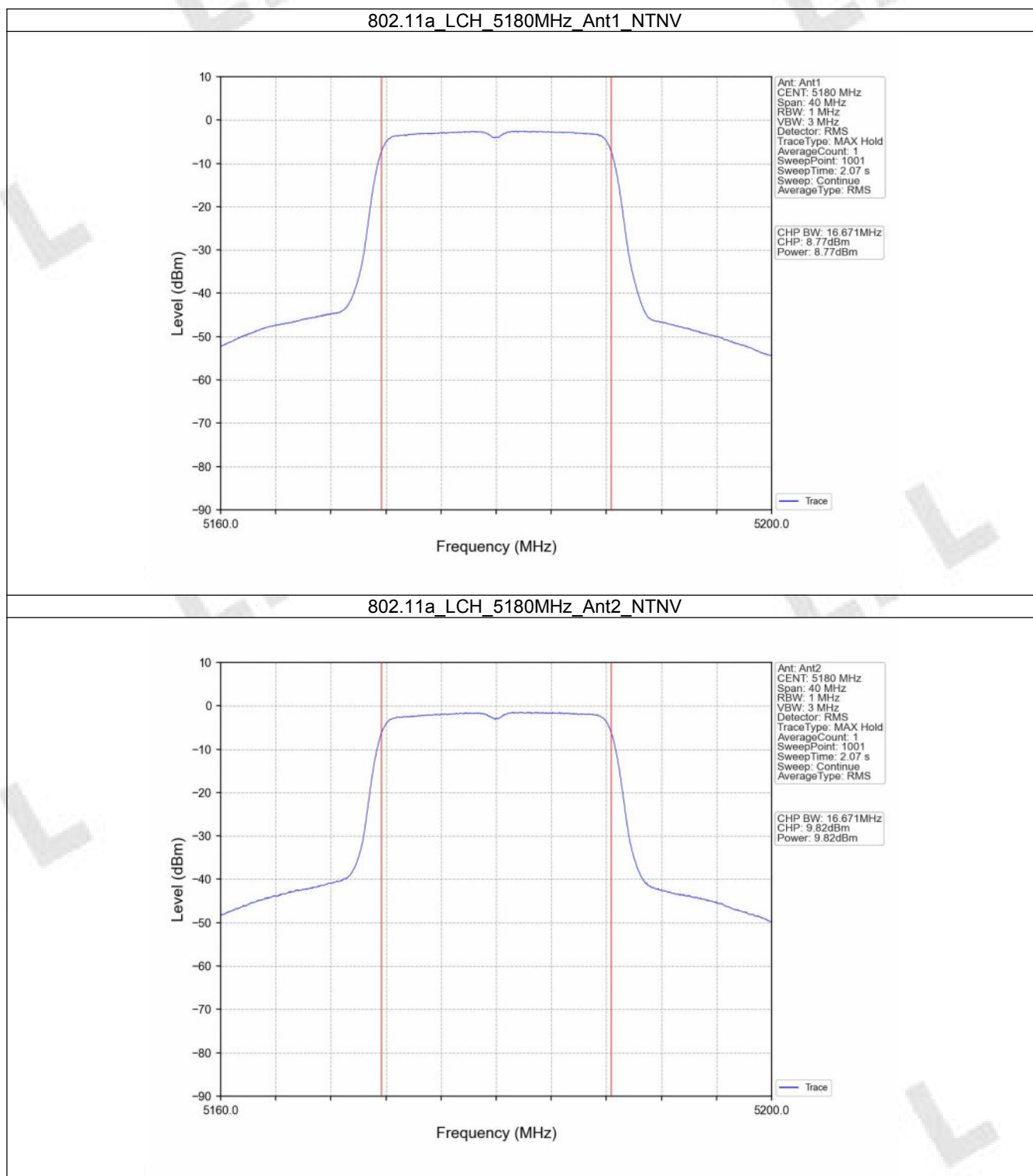


802.11ac(VHT80)\_MCH\_5210MHz\_Ant2\_NTNV

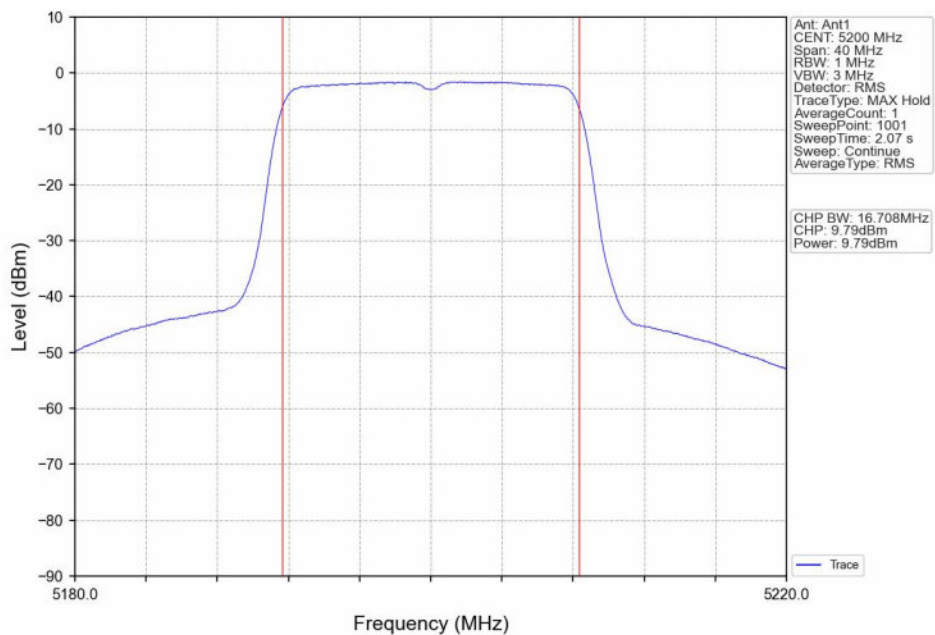




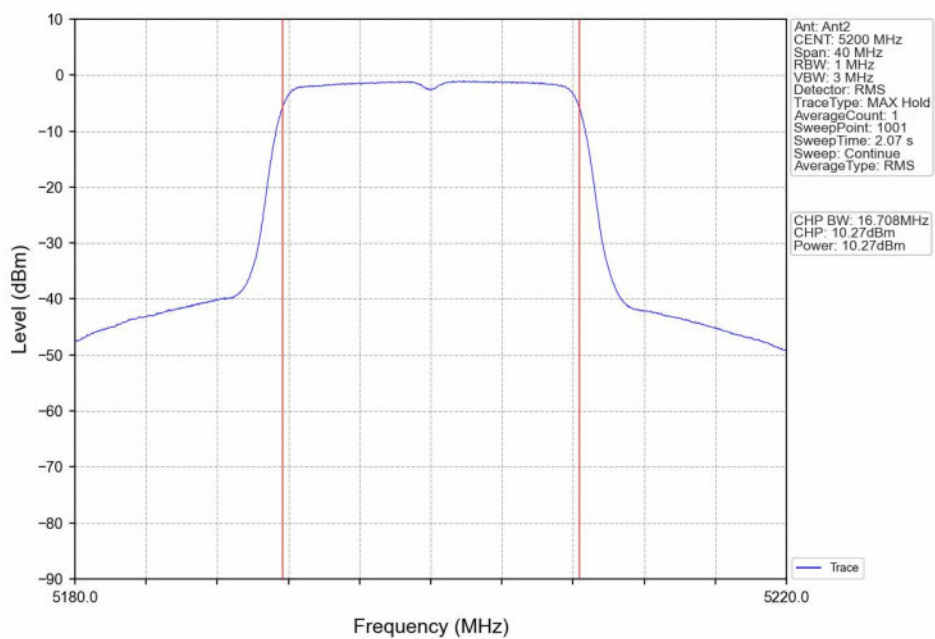
## 2.1.2 Test Graph



802.11a\_MCH\_5200MHz\_Ant1\_NTNV

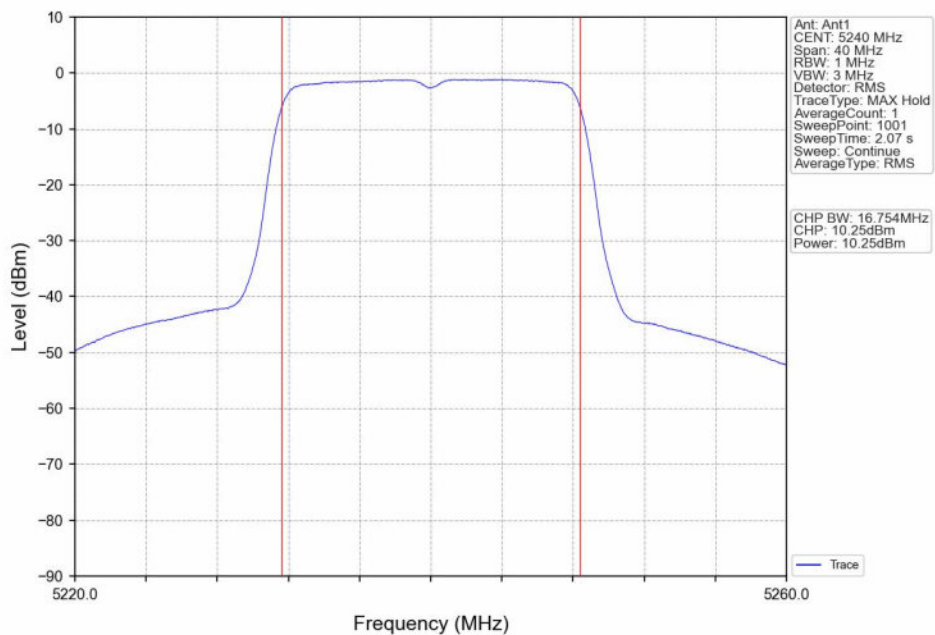


802.11a\_MCH\_5200MHz\_Ant2\_NTNV

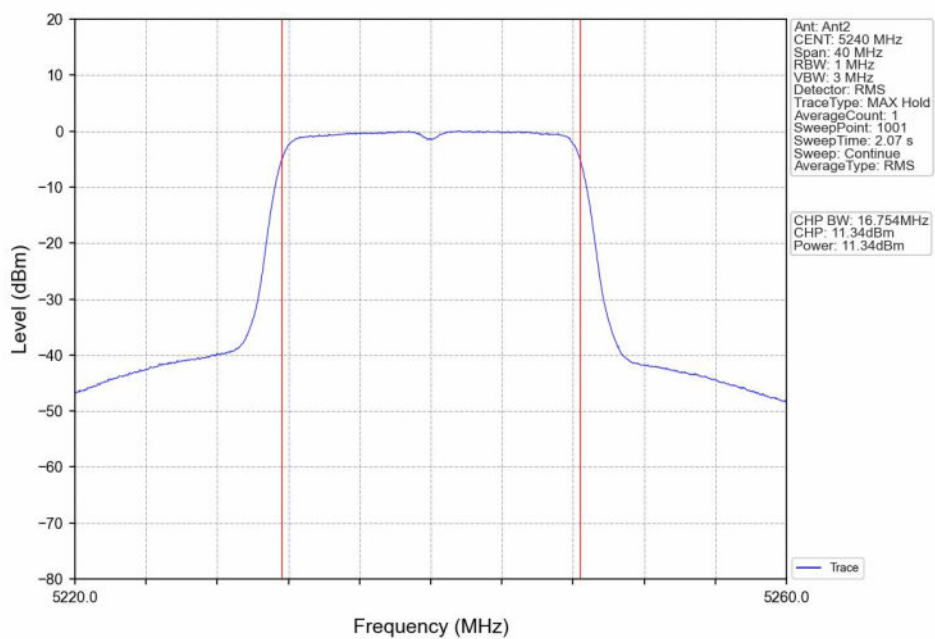




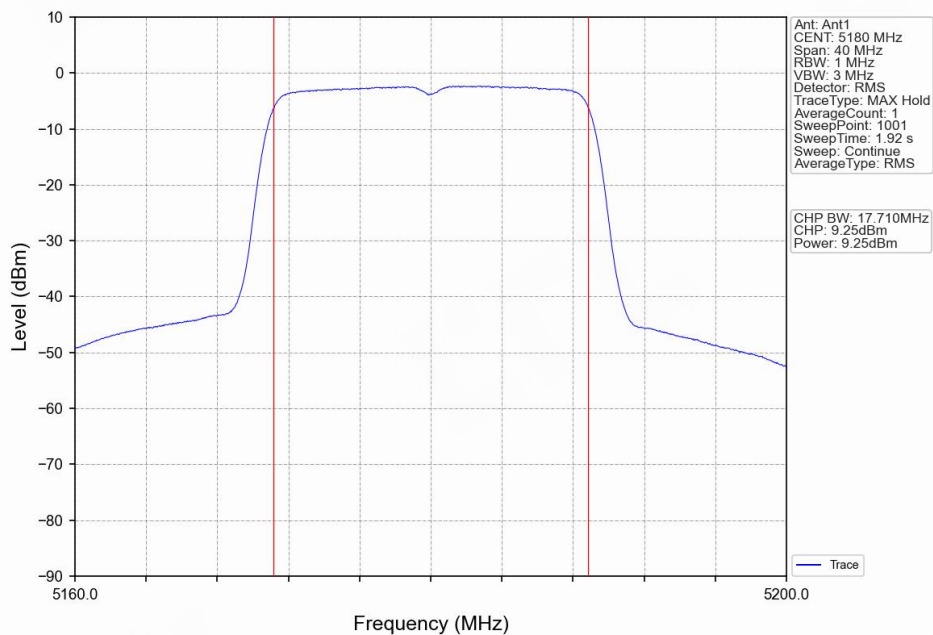
802.11a\_HCH\_5240MHz\_Ant1\_NTNV



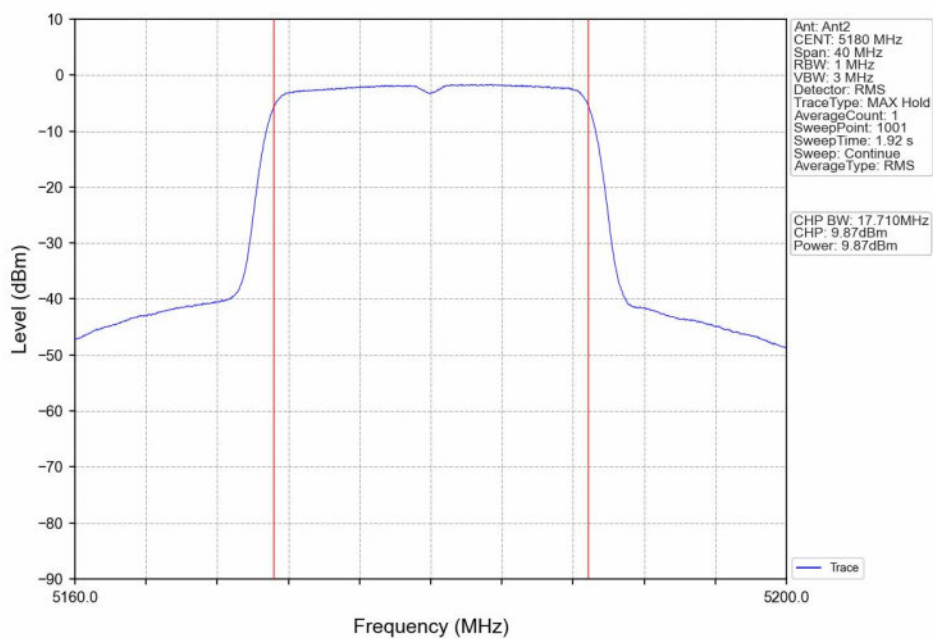
802.11a\_HCH\_5240MHz\_Ant2\_NTNV



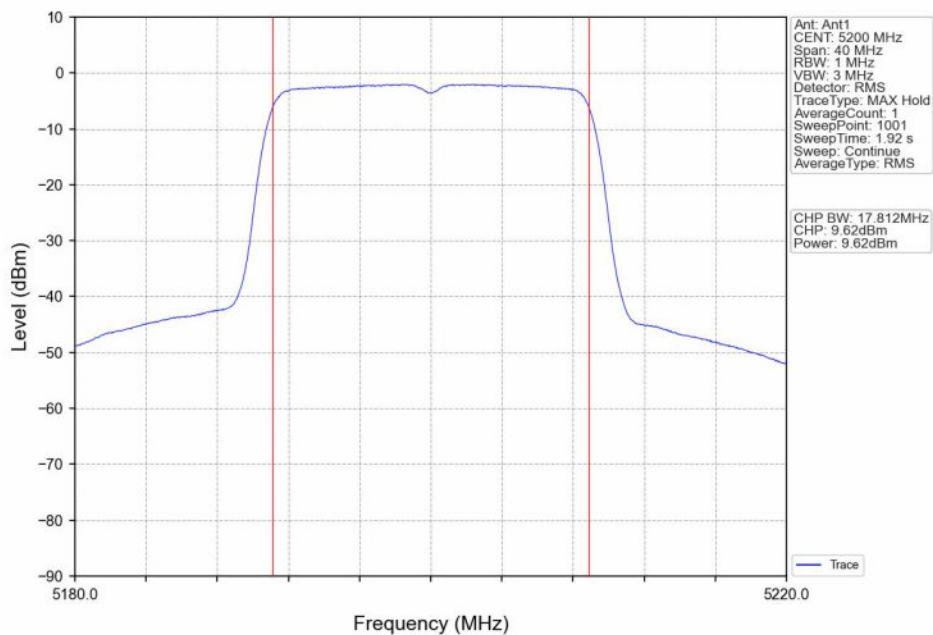
802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



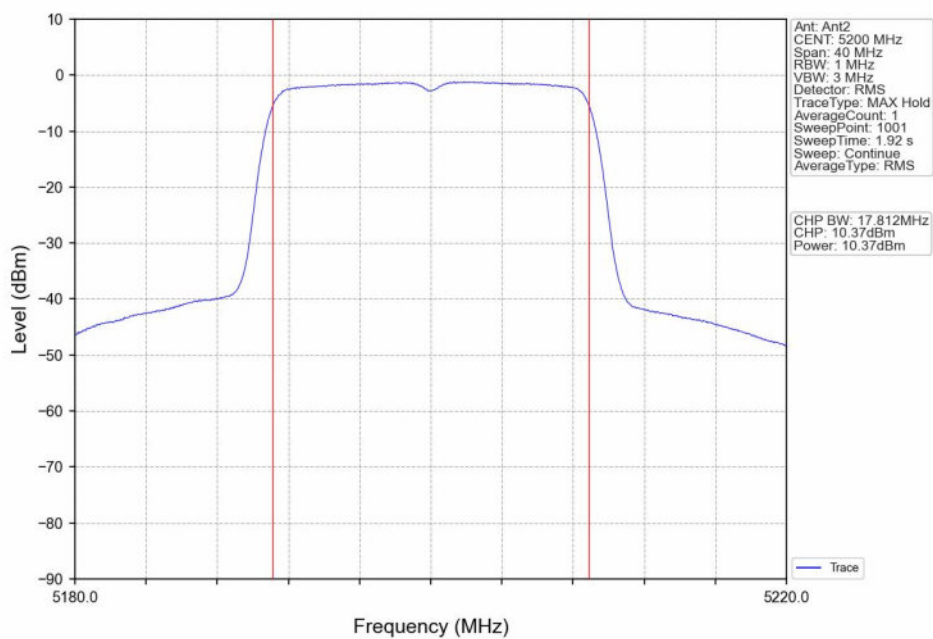
802.11n(HT20)\_LCH\_5180MHz\_Ant2\_NTNV



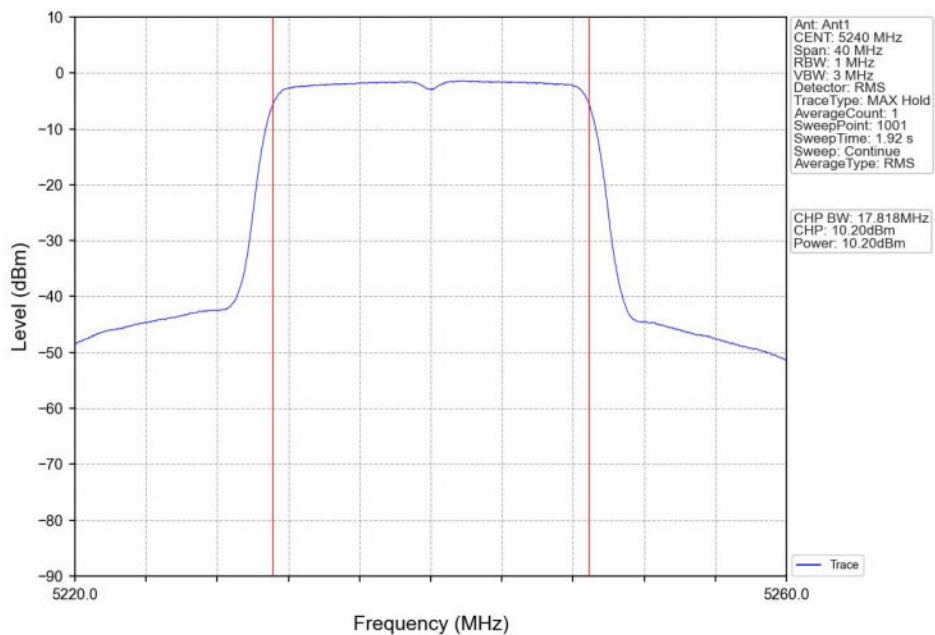
802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



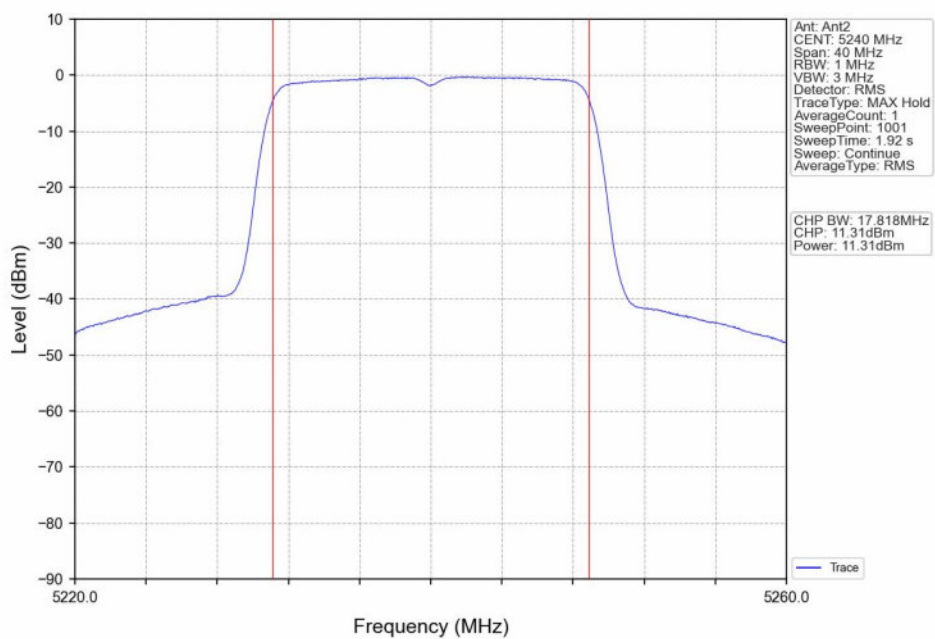
802.11n(HT20)\_MCH\_5200MHz\_Ant2\_NTNV



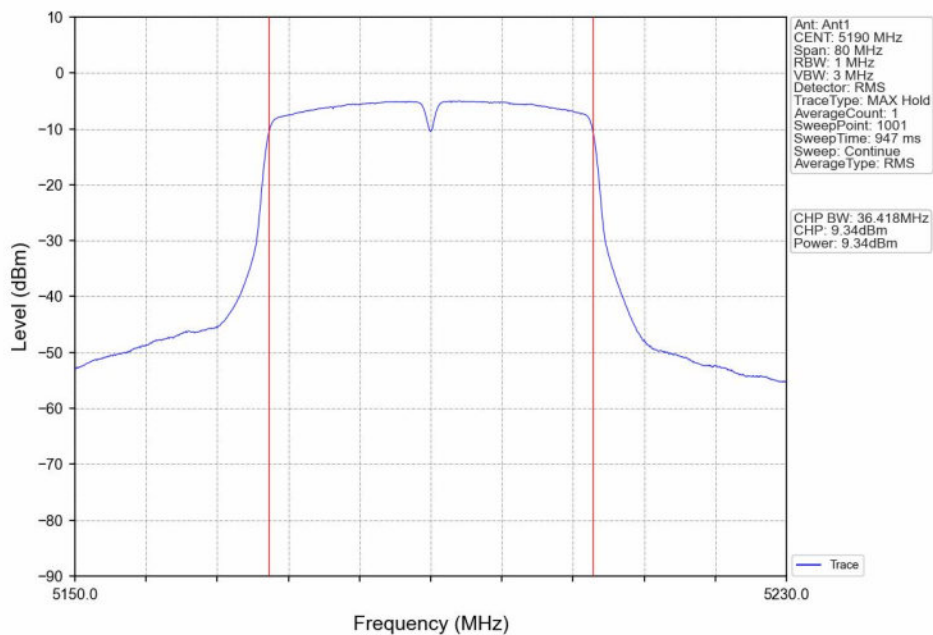
802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



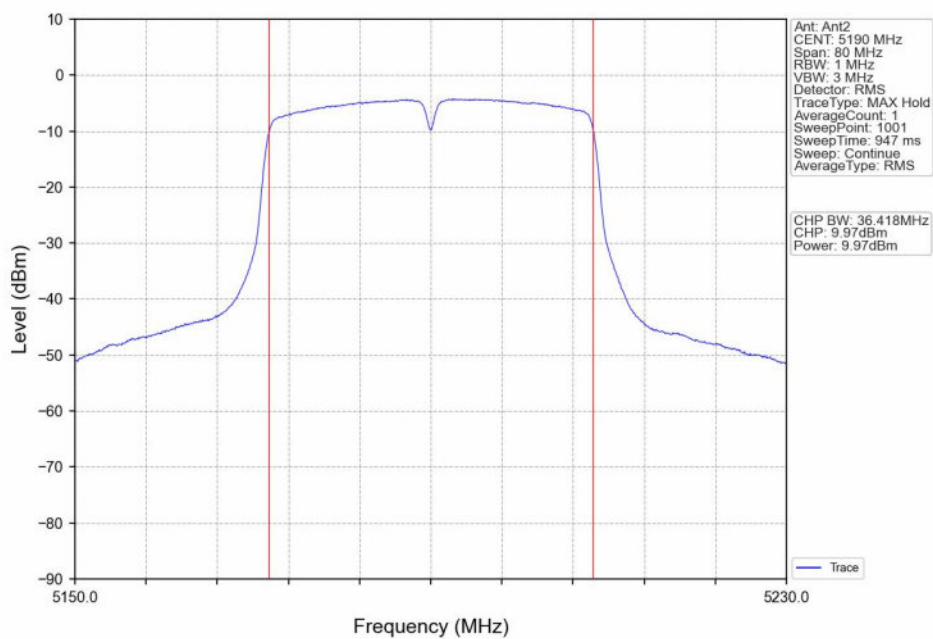
802.11n(HT20)\_HCH\_5240MHz\_Ant2\_NTNV



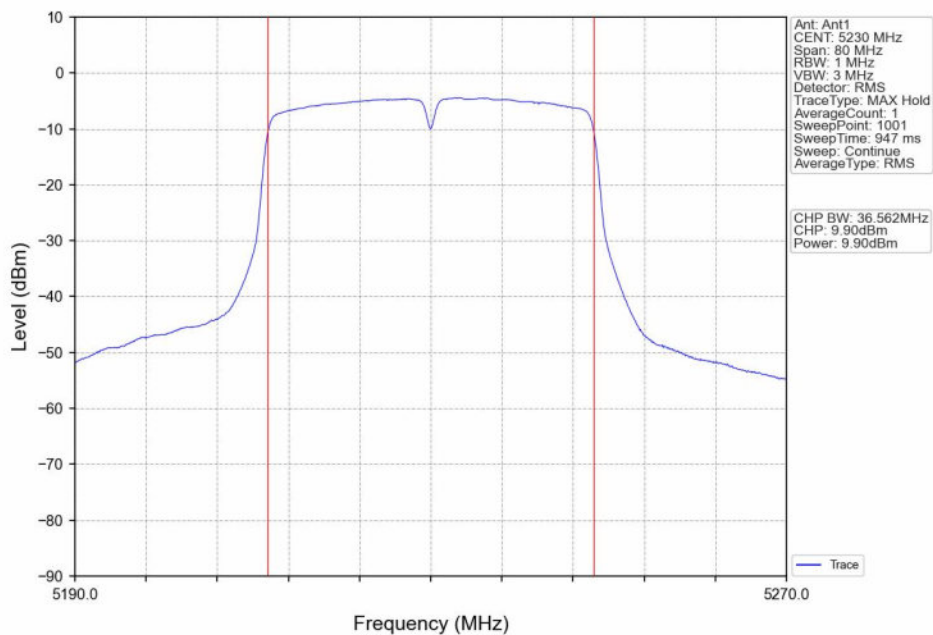
802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



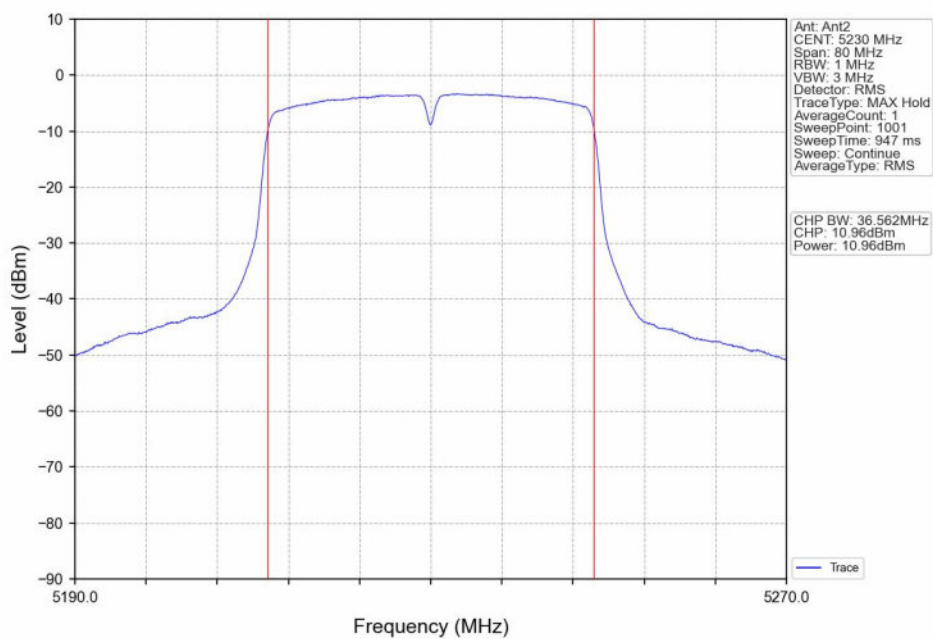
802.11n(HT40)\_LCH\_5190MHz\_Ant2\_NTNV



802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV

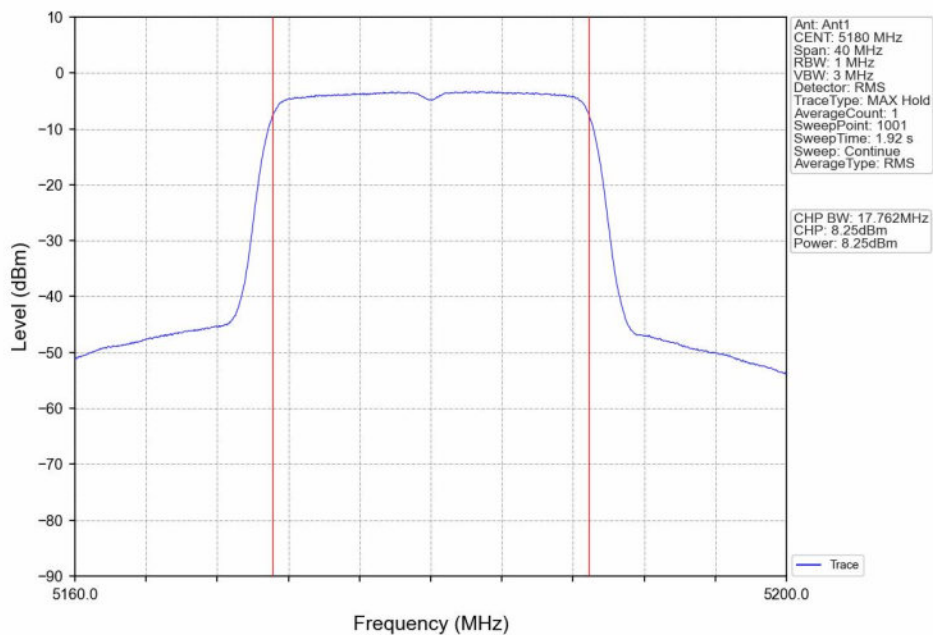


802.11n(HT40)\_HCH\_5230MHz\_Ant2\_NTNV

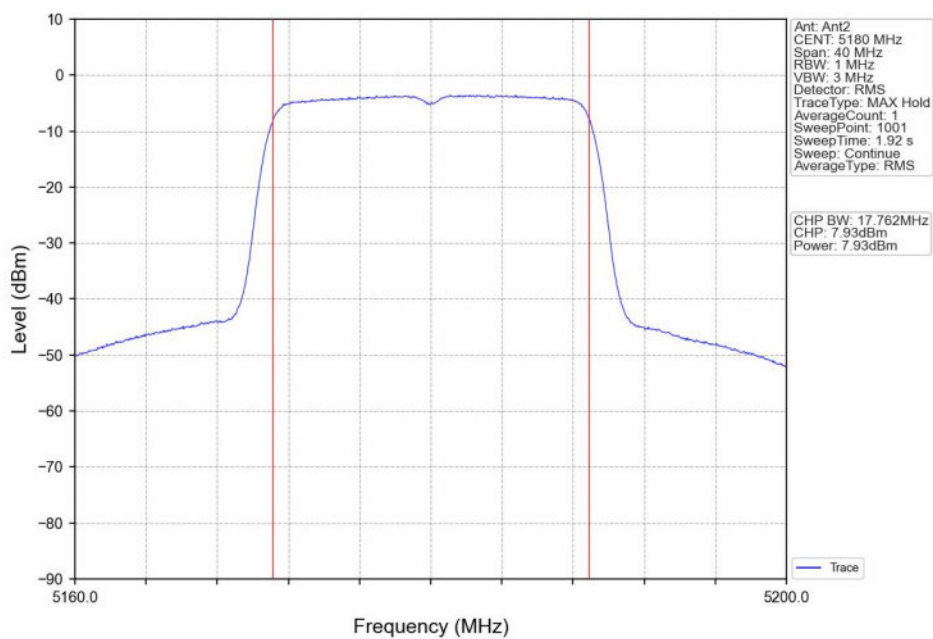




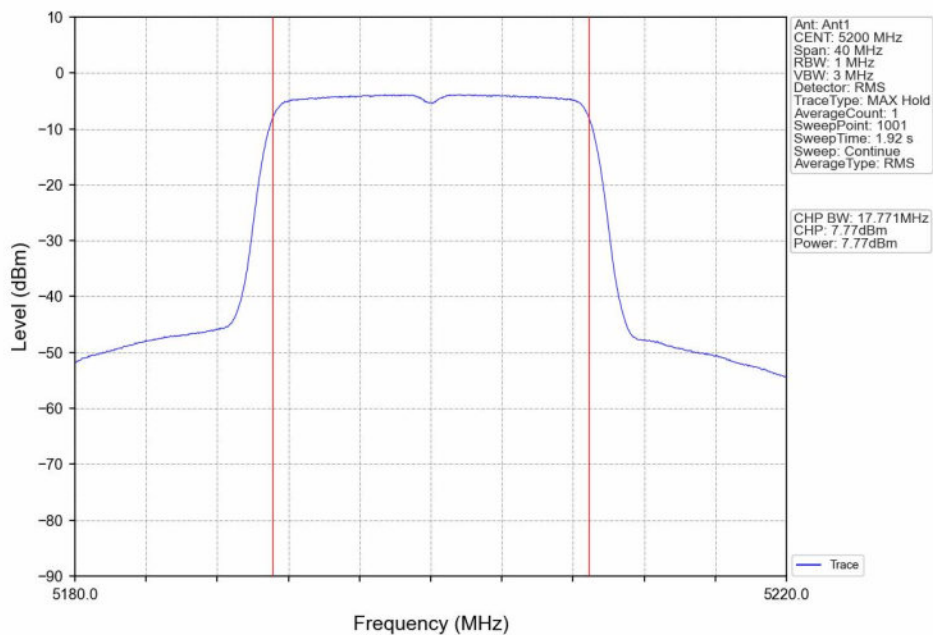
802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



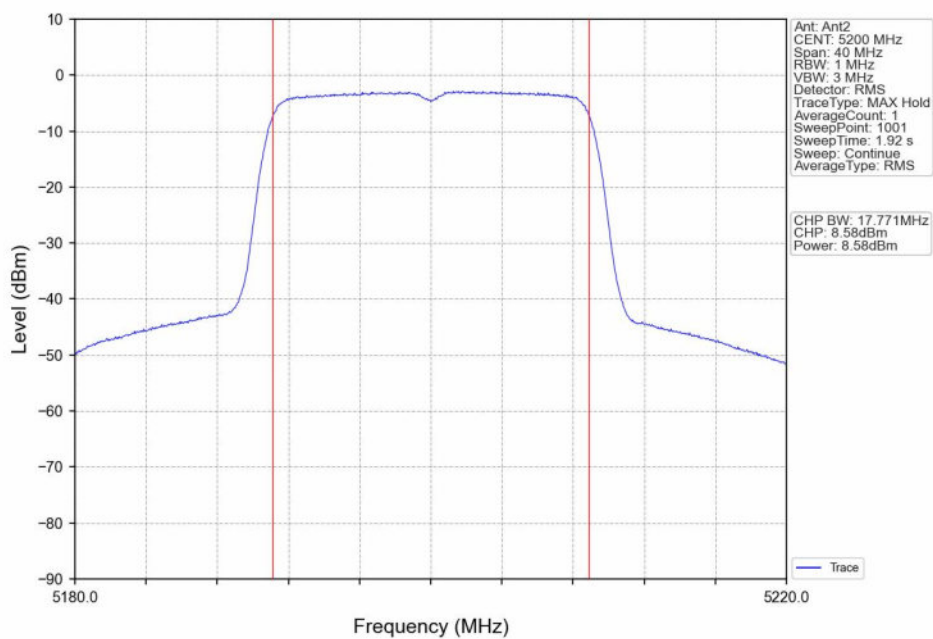
802.11n(HT20)\_LCH\_5180MHz\_Ant2\_NTNV



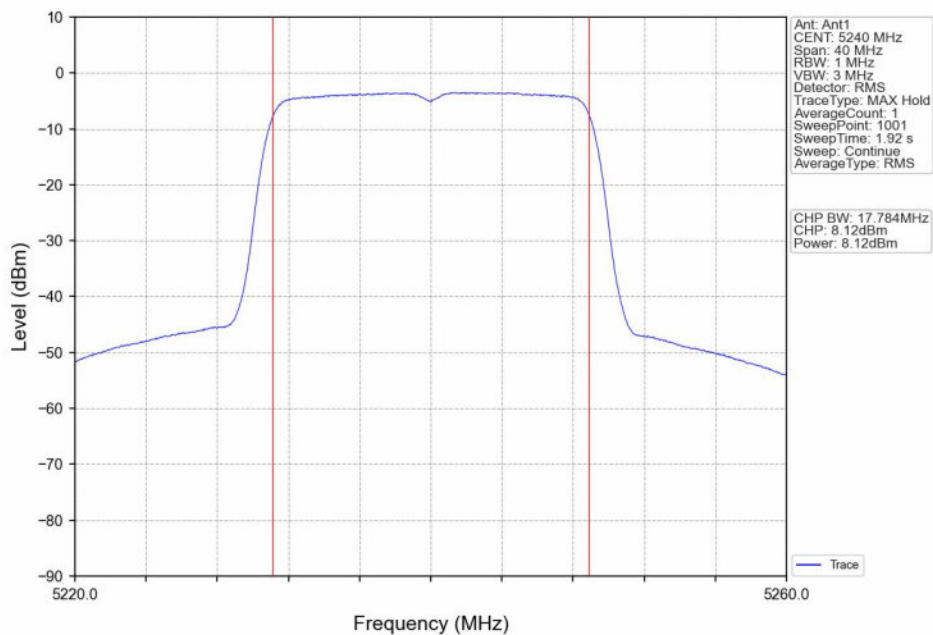
802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



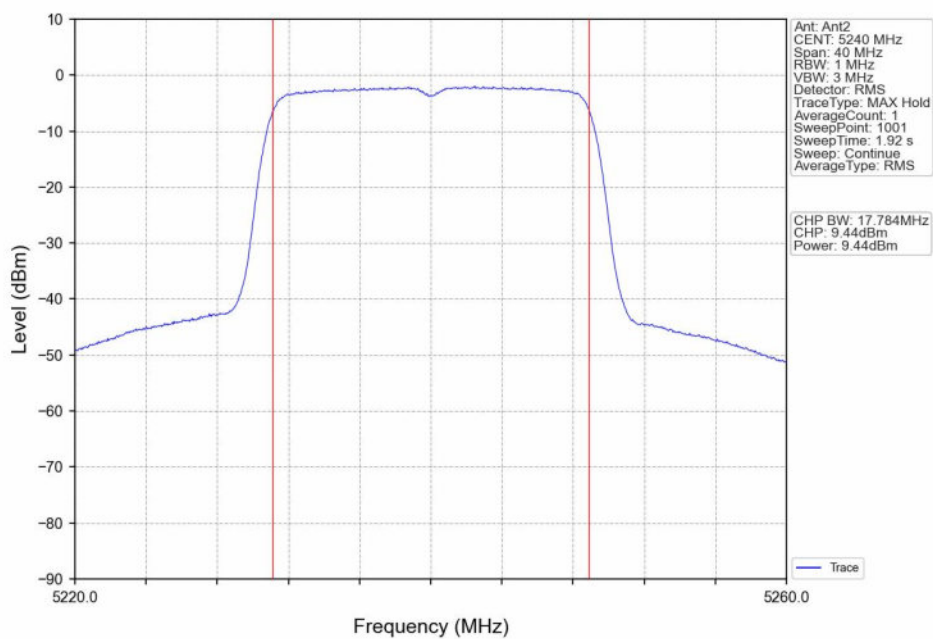
802.11n(HT20)\_MCH\_5200MHz\_Ant2\_NTNV



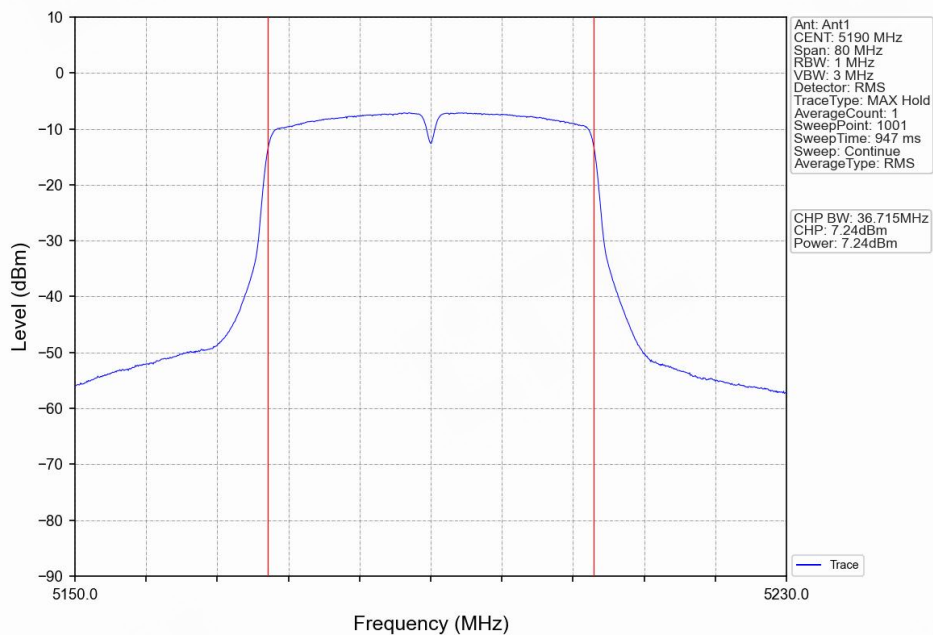
802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



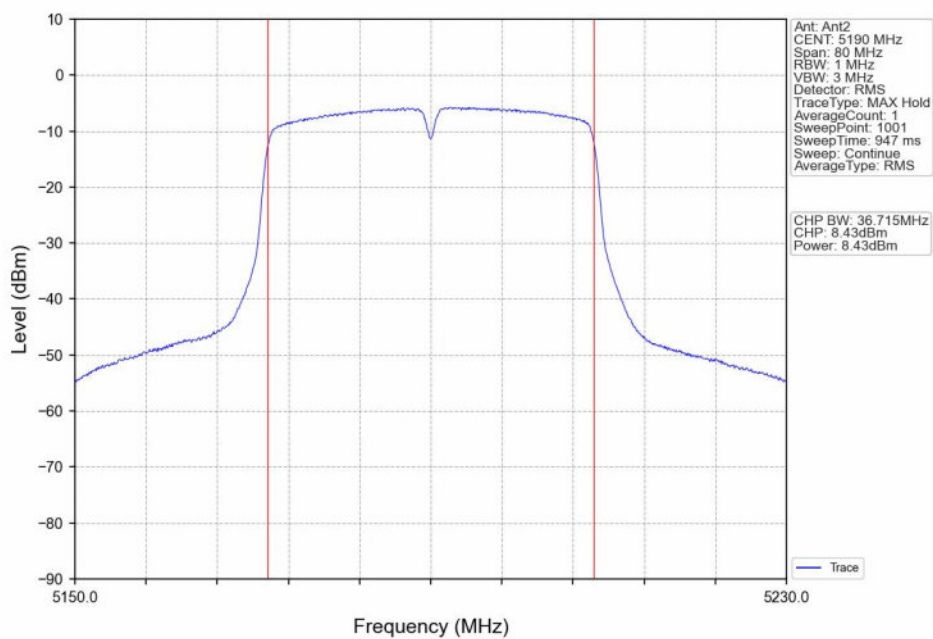
802.11n(HT20)\_HCH\_5240MHz\_Ant2\_NTNV



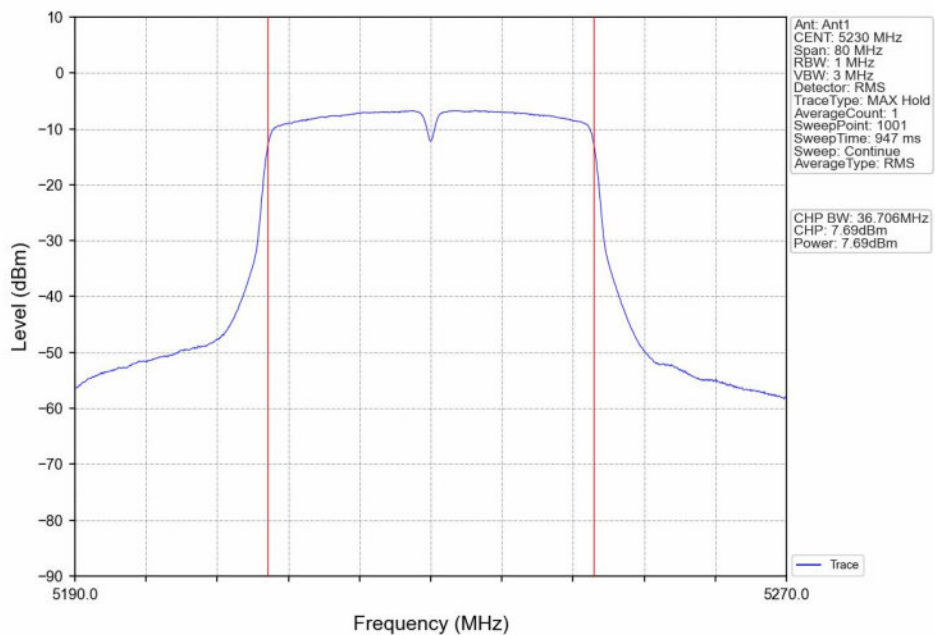
802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



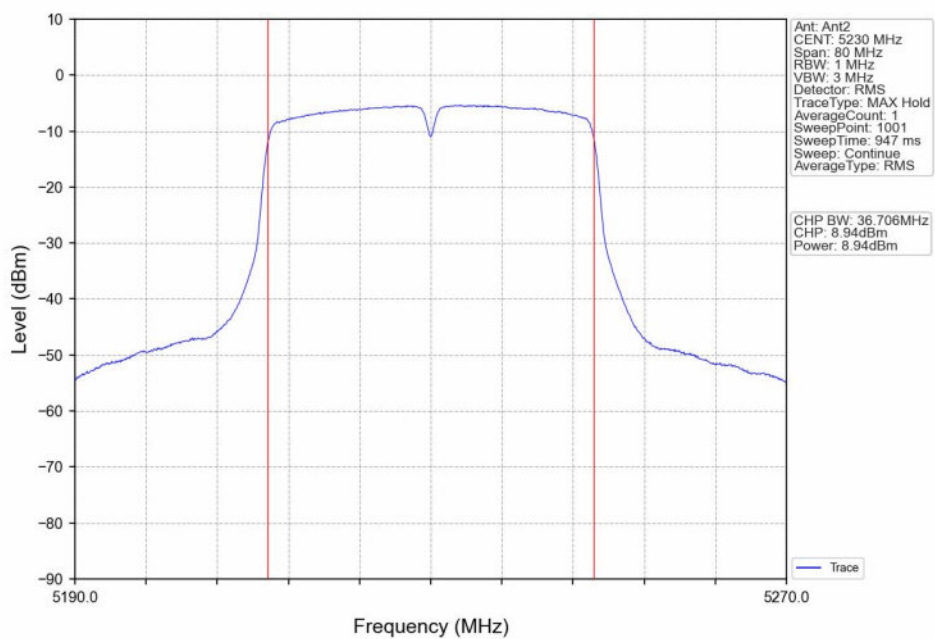
802.11n(HT40)\_LCH\_5190MHz\_Ant2\_NTNV



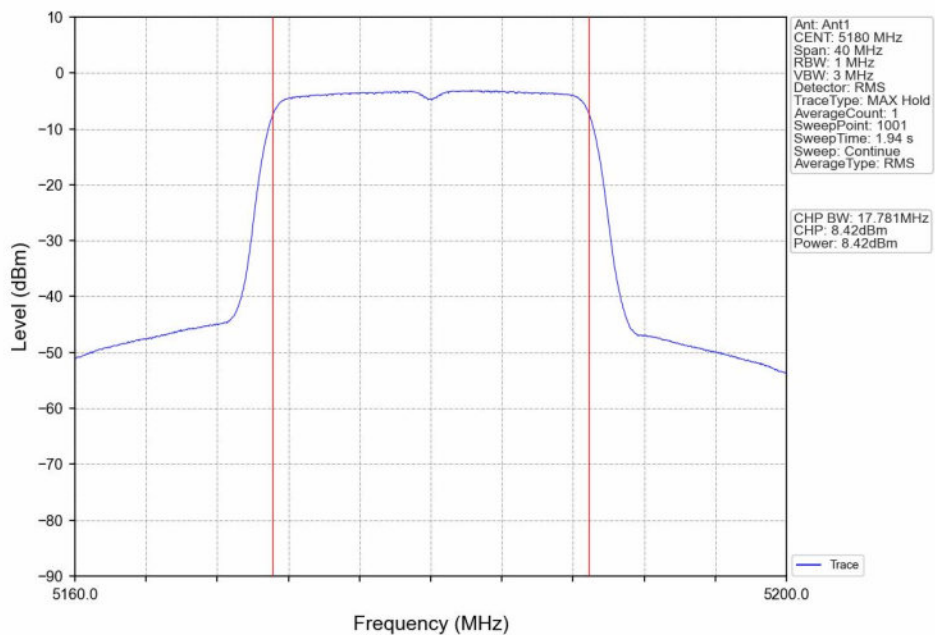
802.11n(HT40)\_HCH\_5230MHz\_Ant1\_NTNV



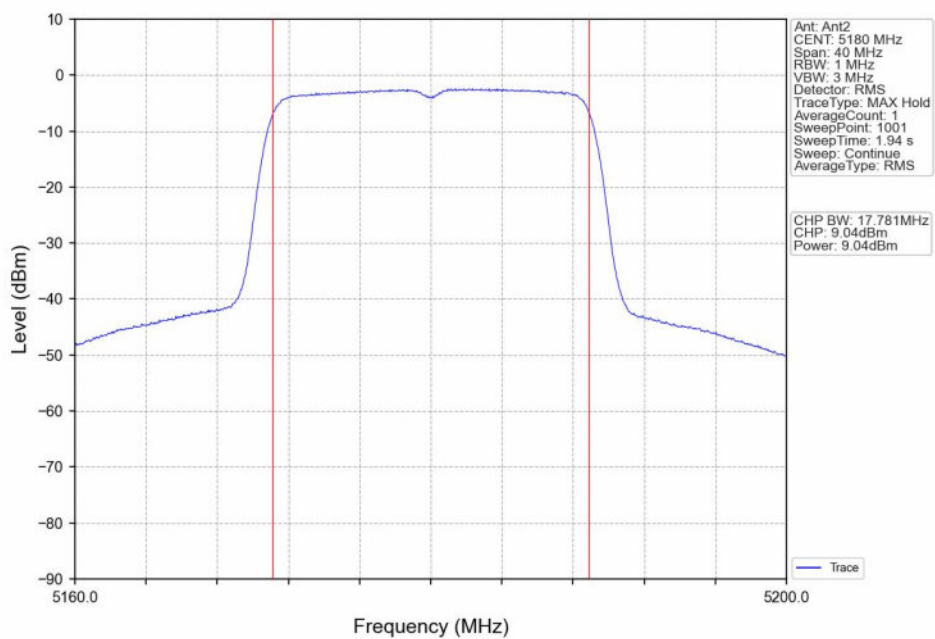
802.11n(HT40)\_HCH\_5230MHz\_Ant2\_NTNV



802.11ac(VHT20)\_LCH\_5180MHz\_Ant1\_NTNV

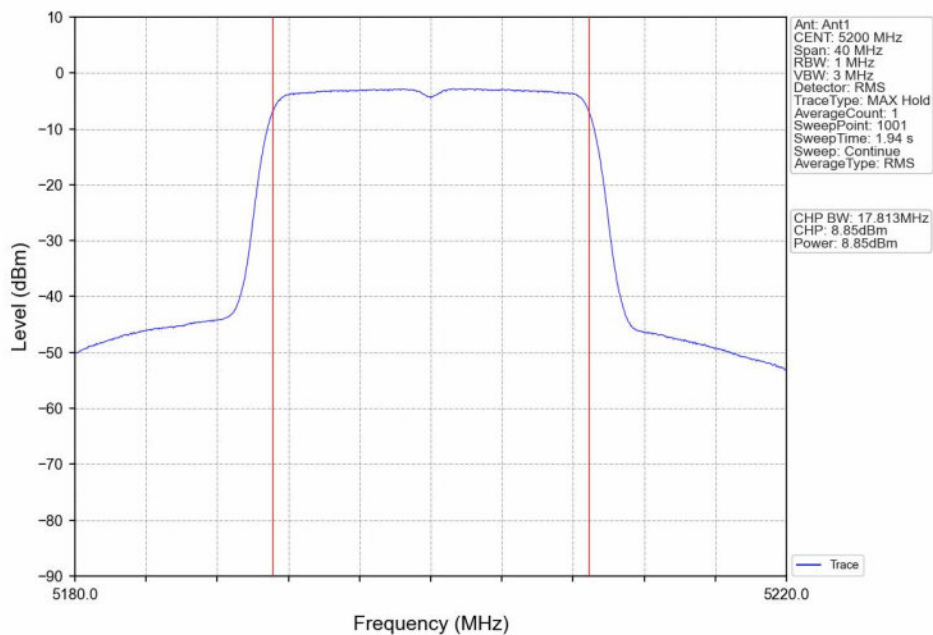


802.11ac(VHT20)\_LCH\_5180MHz\_Ant2\_NTNV

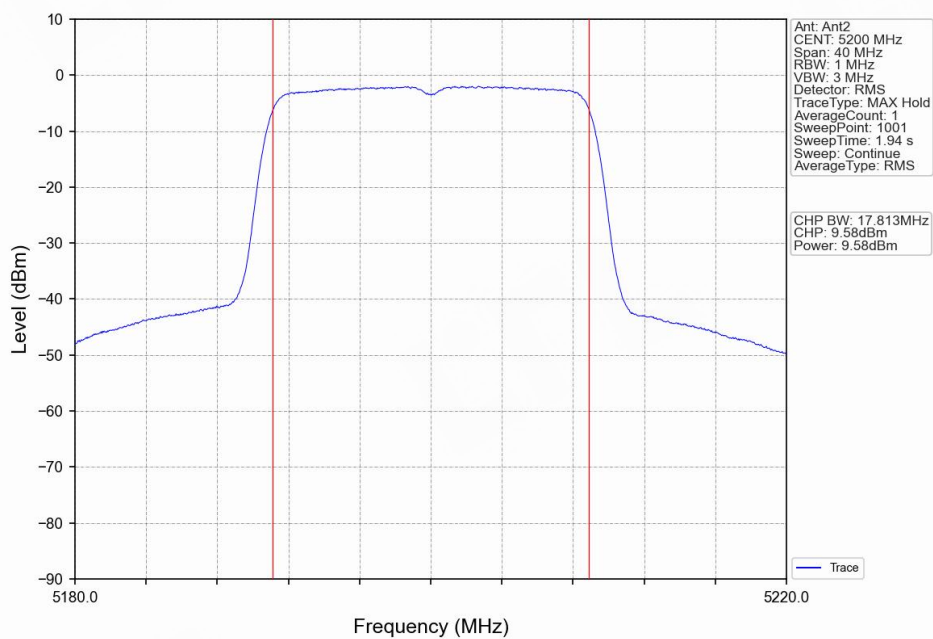




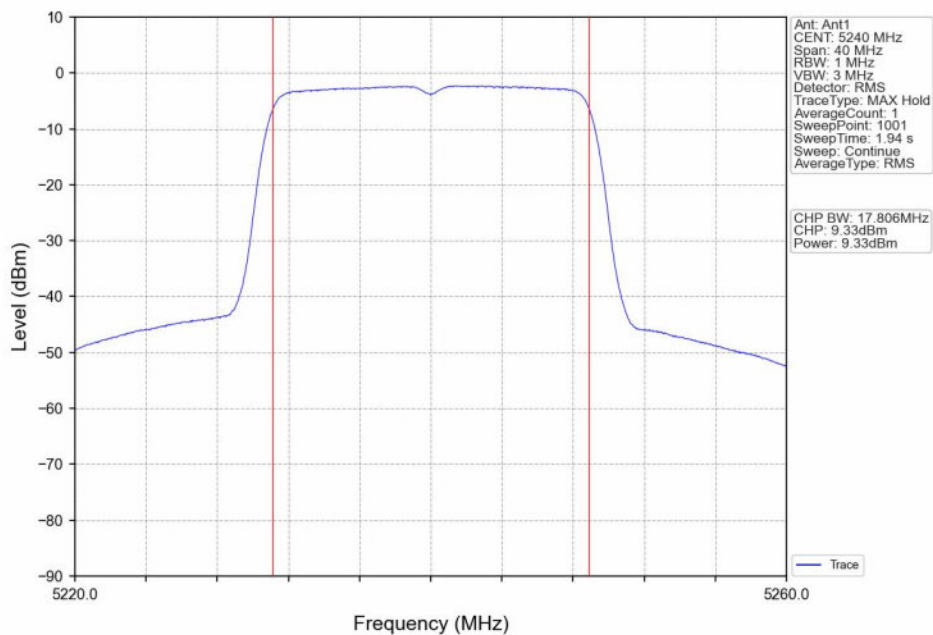
802.11ac(VHT20)\_MCH\_5200MHz\_Ant1\_NTNV



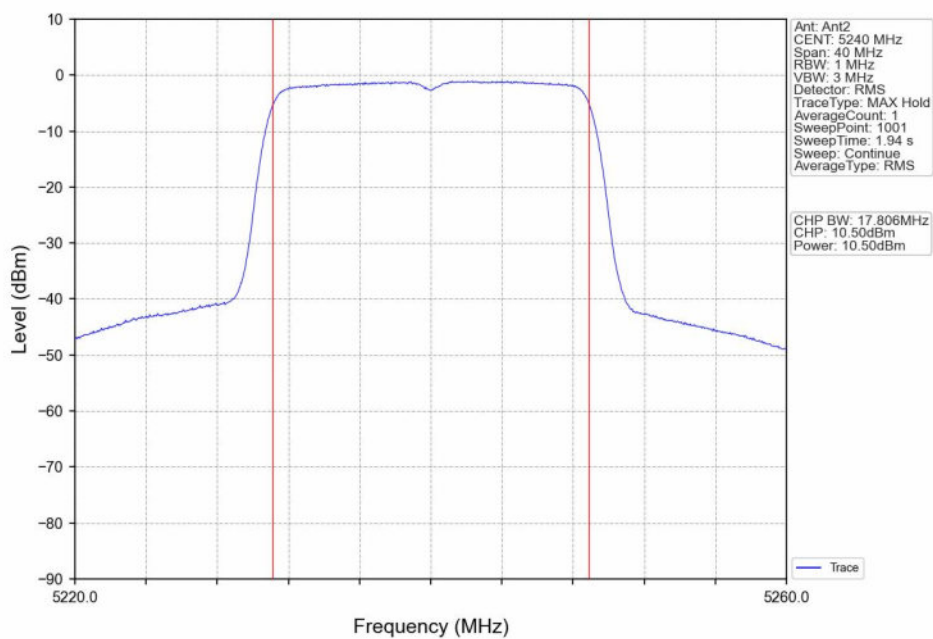
802.11ac(VHT20)\_MCH\_5200MHz\_Ant2\_NTNV



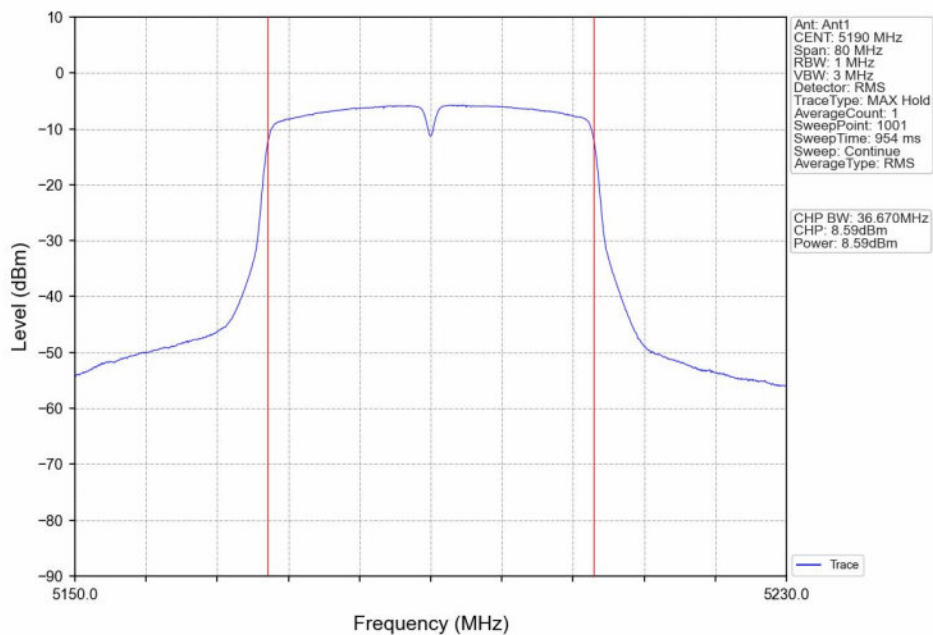
802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV



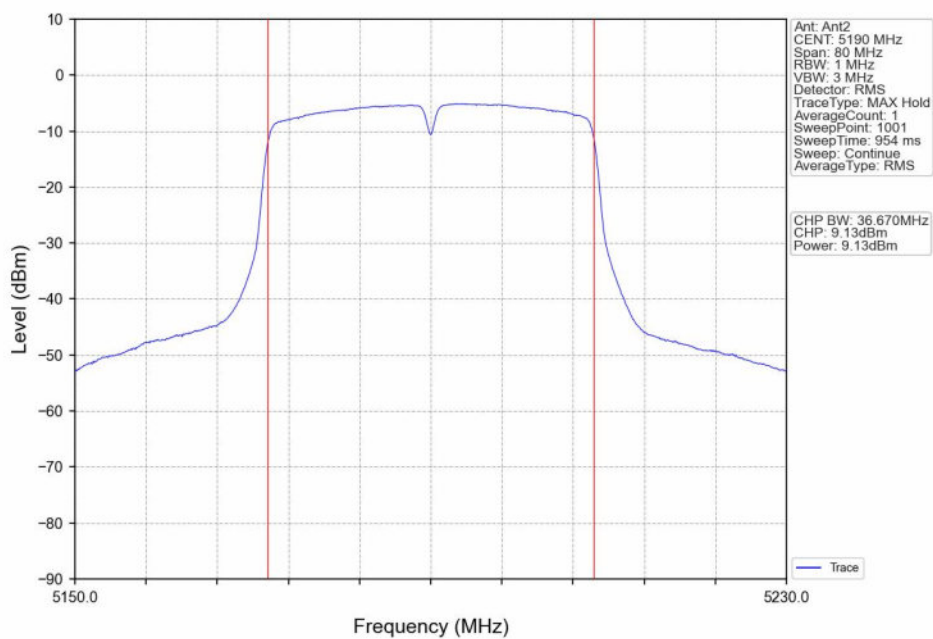
802.11ac(VHT20)\_HCH\_5240MHz\_Ant2\_NTNV



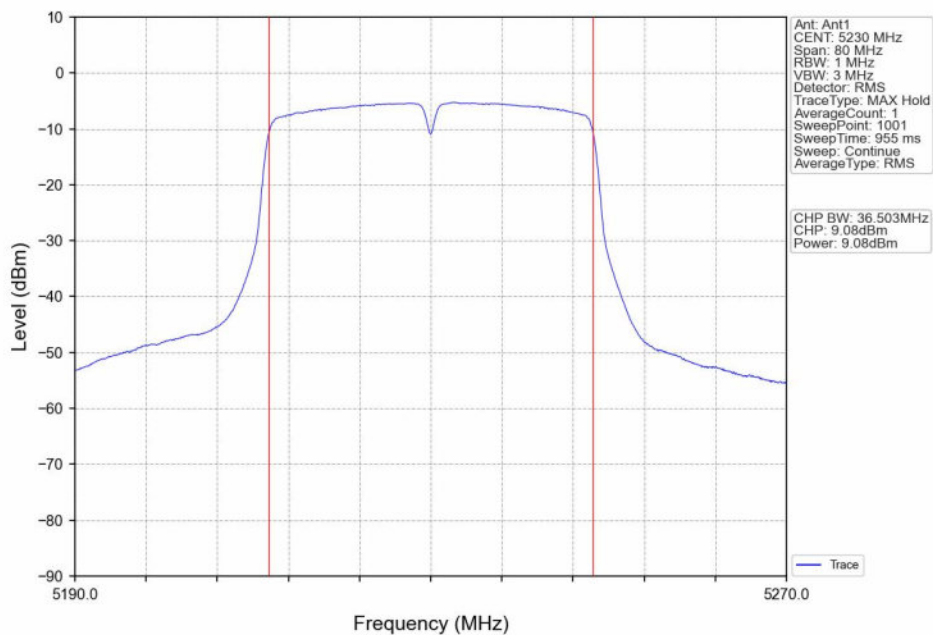
802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV



802.11ac(VHT40)\_LCH\_5190MHz\_Ant2\_NTNV



802.11ac(VHT40)\_HCH\_5230MHz\_Ant1\_NTNV



802.11ac(VHT40)\_HCH\_5230MHz\_Ant2\_NTNV

