

## 1. Duty Cycle

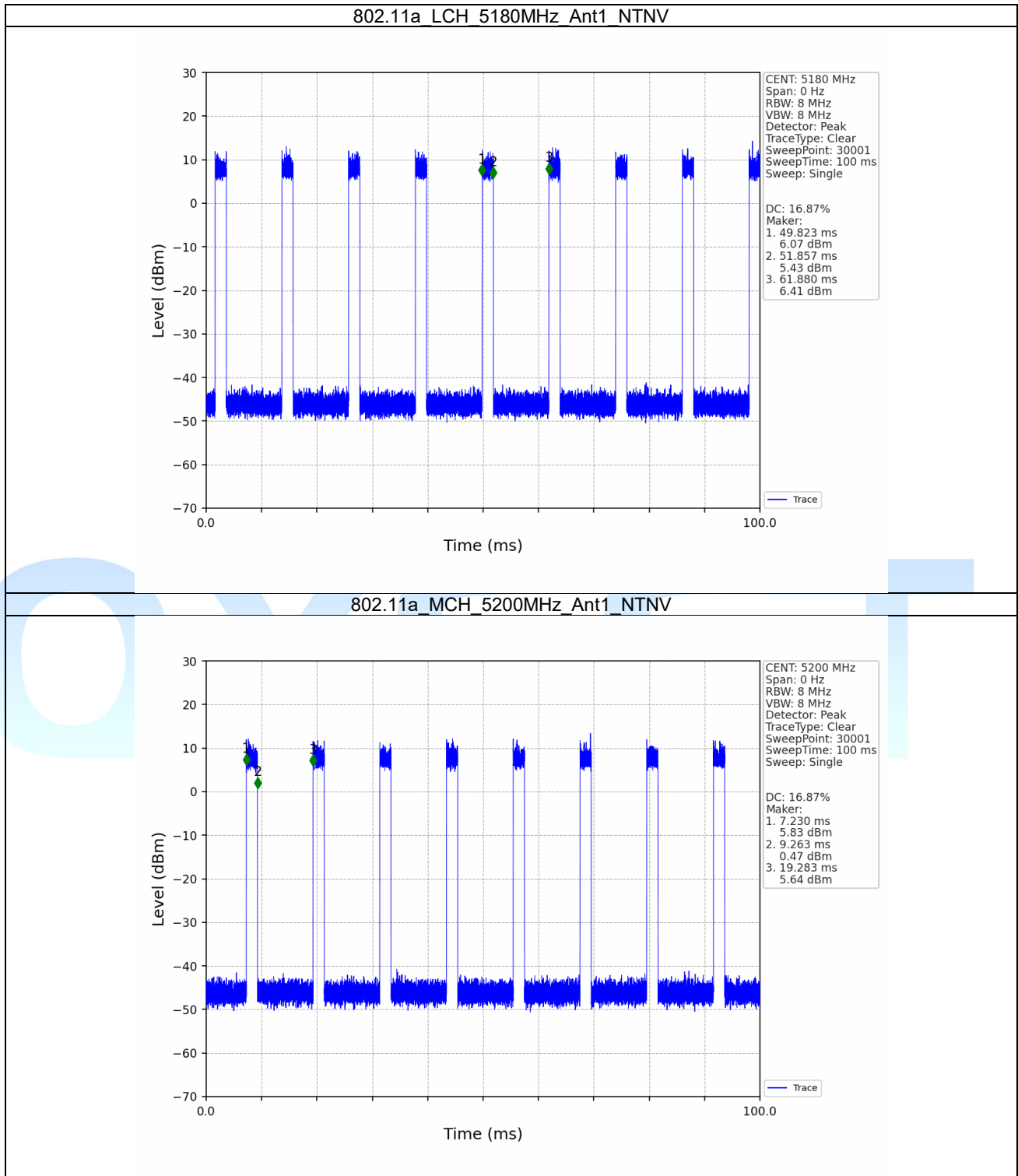
### 1.1 Test Result

#### 1.1.1 Ant1

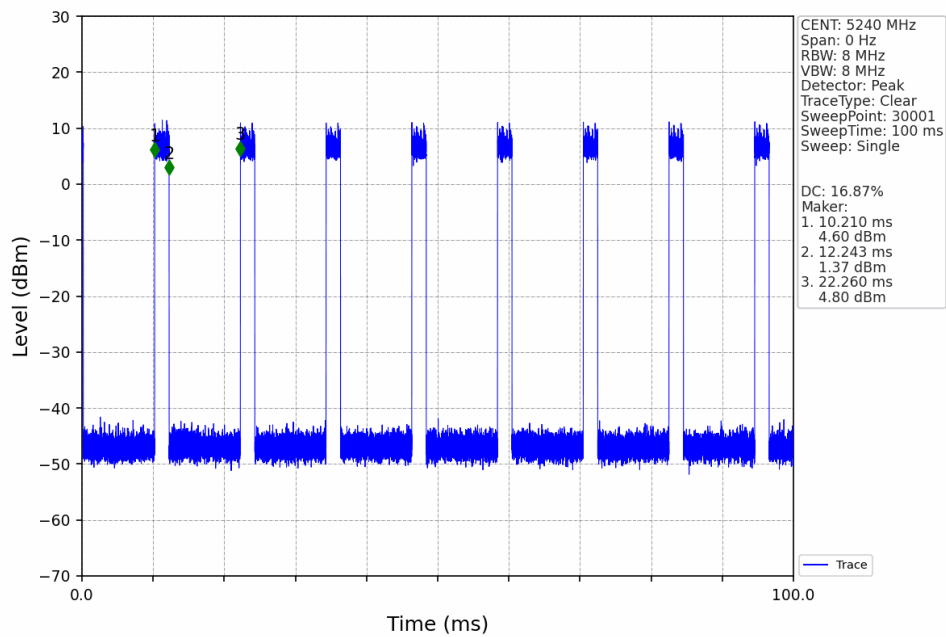
| Ant1             |         |                 |    |        |           |             |                |                                   |                       |
|------------------|---------|-----------------|----|--------|-----------|-------------|----------------|-----------------------------------|-----------------------|
| Mode             | TX Type | Frequency (MHz) | RU | RU Pos | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| 802.11a          | SISO    | 5180            | /  | /      | 2.034     | 12.057      | 16.87          | 7.73                              | 0.03                  |
|                  |         | 5200            | /  | /      | 2.033     | 12.053      | 16.87          | 7.73                              | 0.03                  |
|                  |         | 5240            | /  | /      | 2.033     | 12.050      | 16.87          | 7.73                              | 0.03                  |
| 802.11n (HT20)   | SISO    | 5180            | /  | /      | 1.893     | 11.913      | 15.89          | 7.99                              | 0.03                  |
|                  |         | 5200            | /  | /      | 1.893     | 12.080      | 15.67          | 8.05                              | 0.24                  |
|                  |         | 5240            | /  | /      | 1.893     | 11.913      | 15.89          | 7.99                              | 0.03                  |
| 802.11n (HT40)   | SISO    | 5190            | /  | /      | 0.933     | 10.953      | 8.52           | 10.70                             | 0.03                  |
|                  |         | 5230            | /  | /      | 0.933     | 10.956      | 8.52           | 10.70                             | 0.00                  |
| 802.11ac (VHT20) | SISO    | 5180            | /  | /      | 1.900     | 11.920      | 15.94          | 7.98                              | 0.03                  |
|                  |         | 5200            | /  | /      | 1.903     | 11.923      | 15.96          | 7.97                              | 0.00                  |
|                  |         | 5240            | /  | /      | 1.900     | 11.920      | 15.94          | 7.98                              | 0.03                  |
| 802.11ac (VHT40) | SISO    | 5190            | /  | /      | 0.937     | 10.960      | 8.55           | 10.68                             | 0.03                  |
|                  |         | 5230            | /  | /      | 0.937     | 10.957      | 8.55           | 10.68                             | 0.03                  |
| 802.11ac (VHT80) | SISO    | 5210            | /  | /      | 0.457     | 10.473      | 4.36           | 13.60                             | 0.03                  |
| 802.11ax (HEW20) | SISO    | 5180            | SU | /      | 1.460     | 11.480      | 12.72          | 8.96                              | 0.03                  |
|                  |         | 5200            | SU | /      | 1.460     | 11.484      | 12.71          | 8.96                              | 0.03                  |
|                  |         | 5240            | SU | /      | 1.460     | 11.483      | 12.71          | 8.96                              | 0.03                  |
| 802.11ax (HEW40) | SISO    | 5190            | SU | /      | 0.760     | 10.780      | 7.05           | 11.52                             | 0.03                  |
|                  |         | 5230            | SU | /      | 0.760     | 10.777      | 7.05           | 11.52                             | 0.03                  |
| 802.11ax (HEW80) | SISO    | 5210            | SU | /      | 0.394     | 10.414      | 3.78           | 14.22                             | 0.03                  |

## 1.2 Test Graph

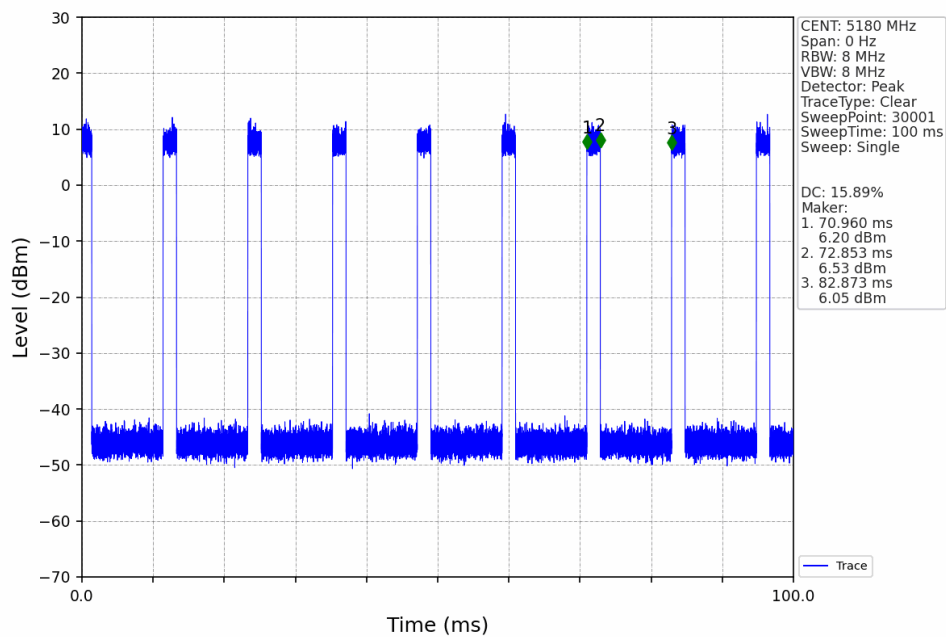
### 1.2.1 Ant1



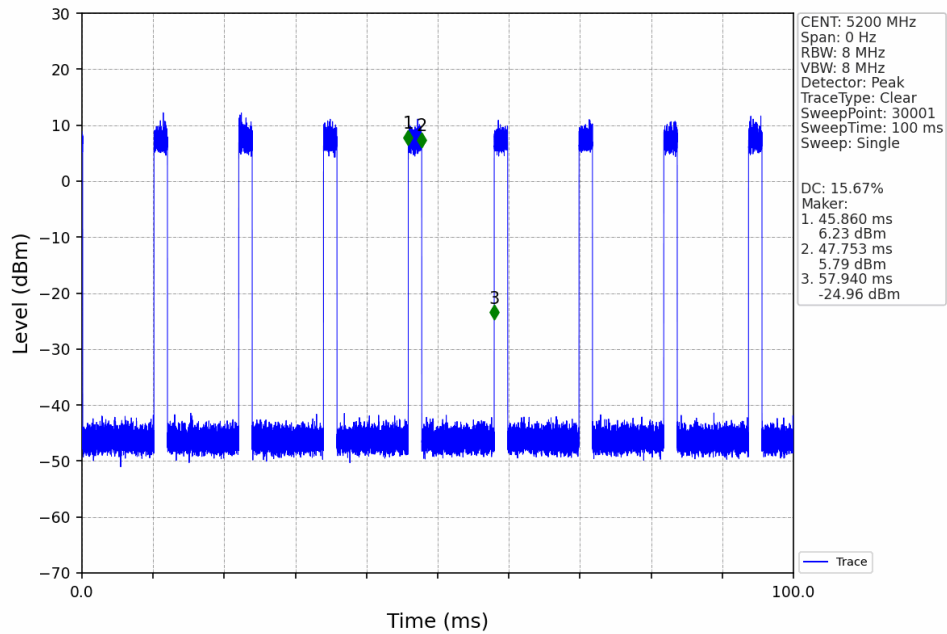
802.11a\_HCH\_5240MHz\_Ant1\_NTNV



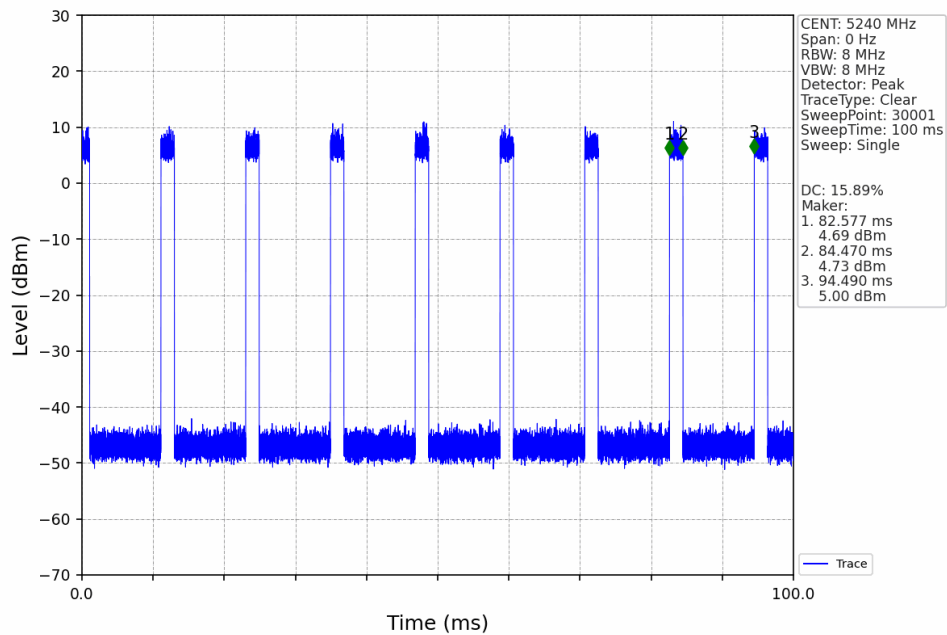
802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



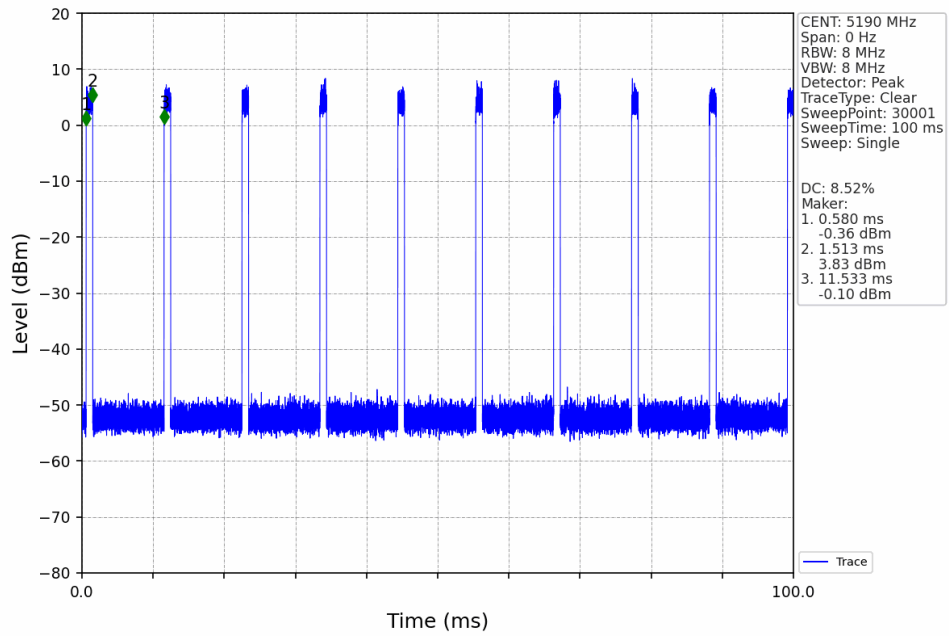
802.11n(HT20) MCH 5200MHz\_Ant1\_NTNV



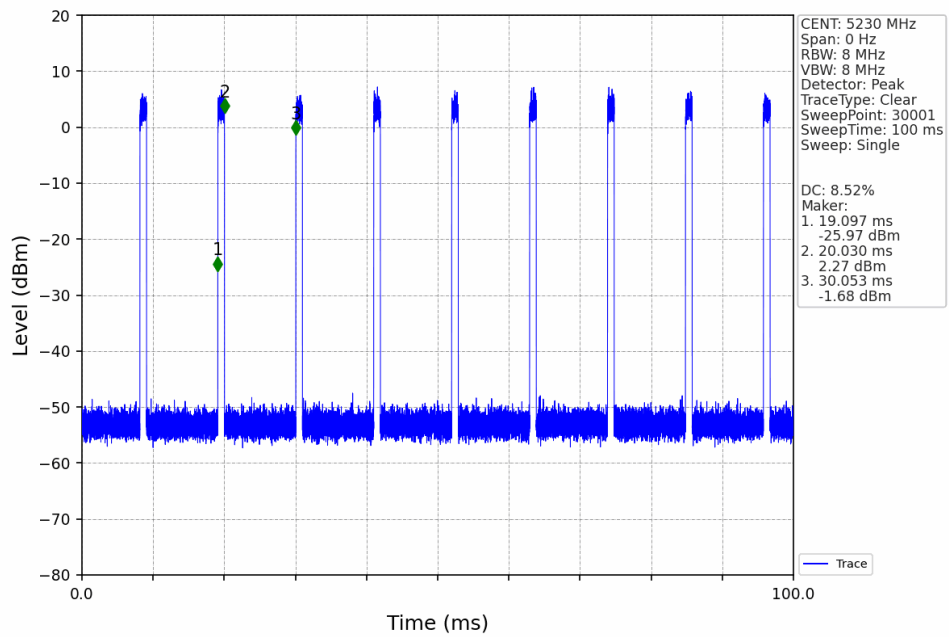
802.11n(HT20) HCH 5240MHz\_Ant1\_NTNV



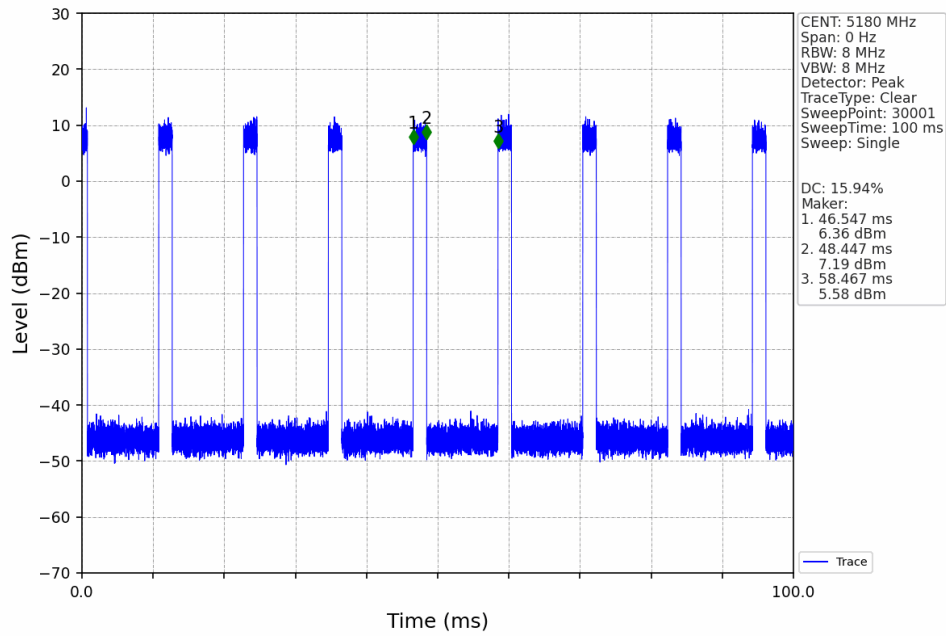
802.11n(HT40) LCH 5190MHz\_Ant1\_NTNV



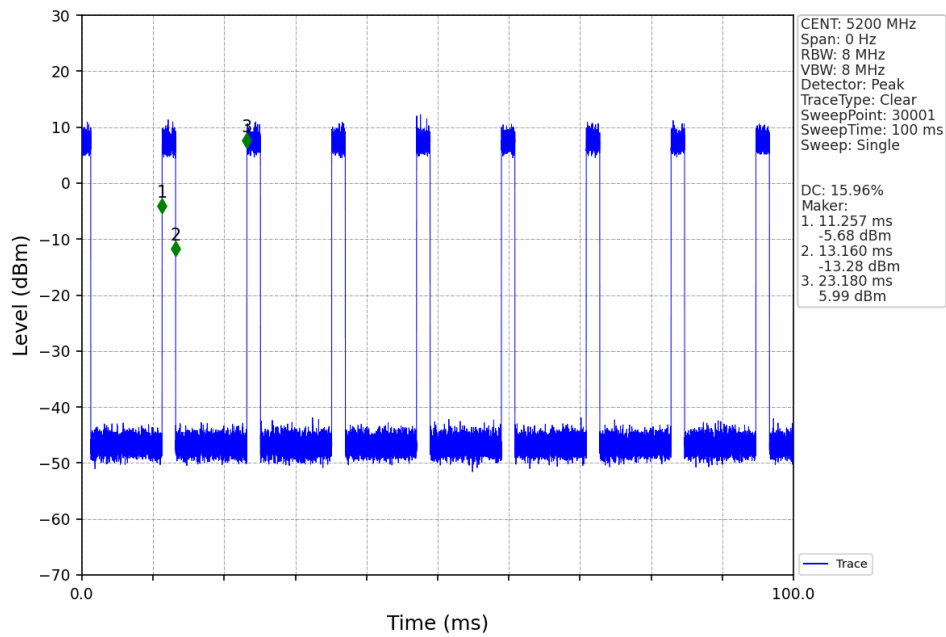
802.11n(HT40) HCH 5230MHz\_Ant1\_NTNV



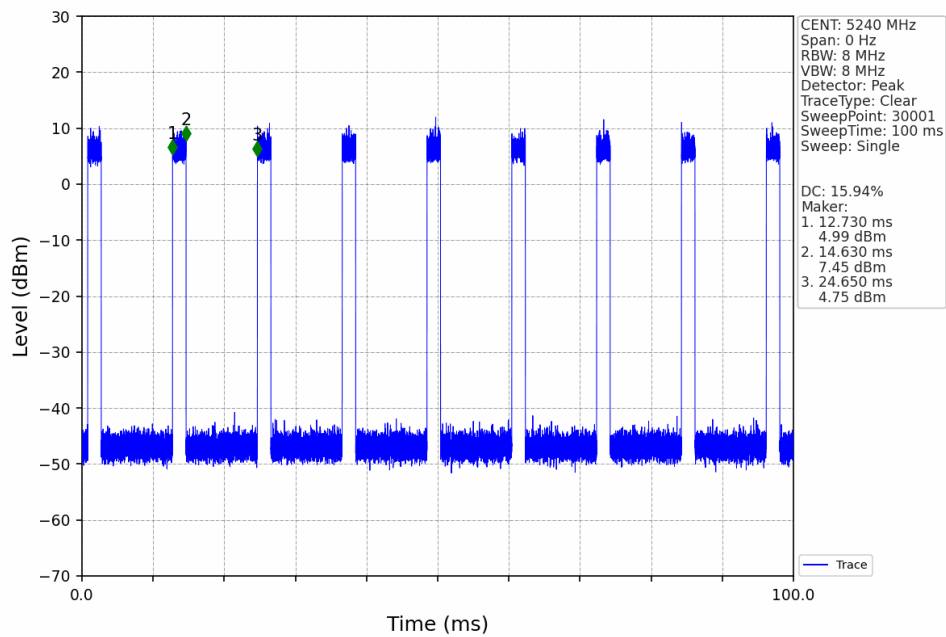
802.11ac(VHT20)\_LCH\_5180MHz\_Ant1\_NTNV



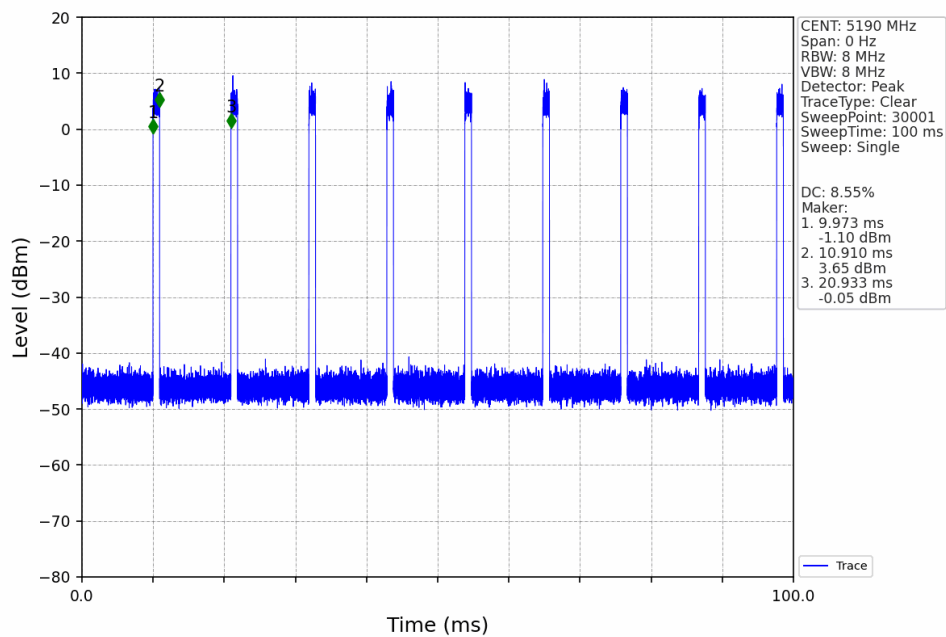
802.11ac(VHT20)\_MCH\_5200MHz\_Ant1\_NTNV



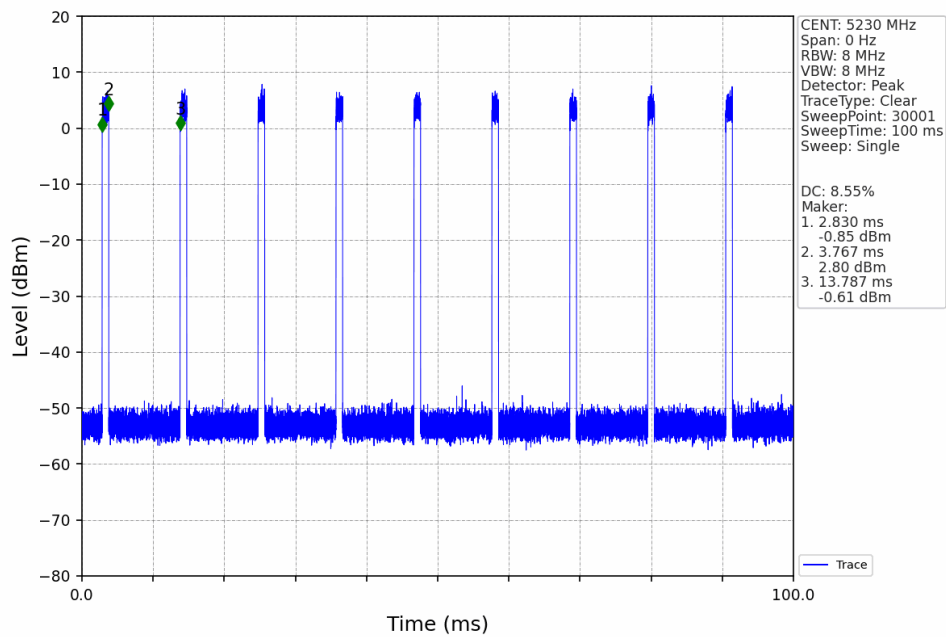
802.11ac(VHT20) HCH\_5240MHz\_Ant1\_NTNV



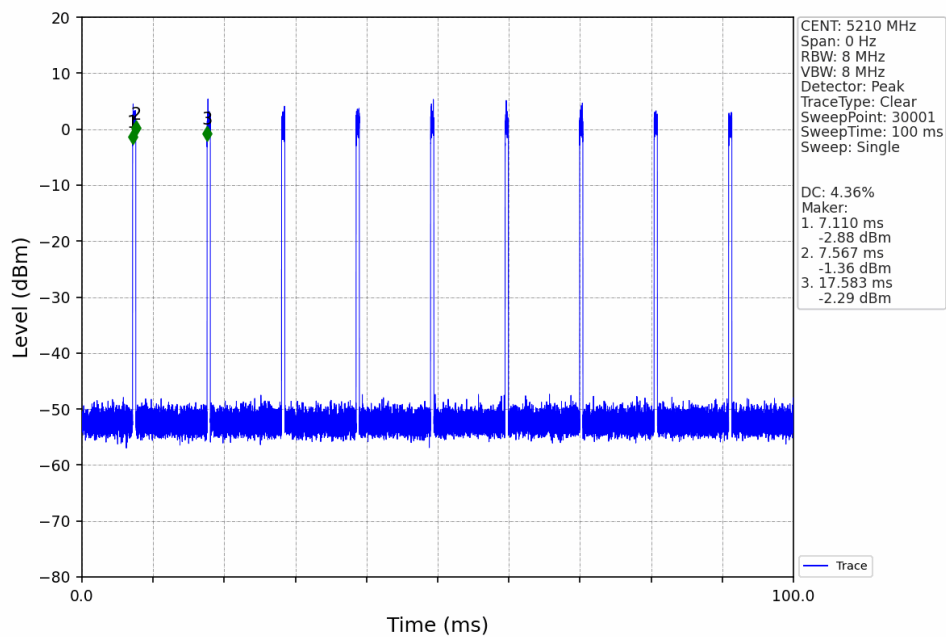
802.11ac(VHT40) LCH\_5190MHz\_Ant1\_NTNV



802.11ac(VHT40) HCH 5230MHz\_Ant1\_NTNV

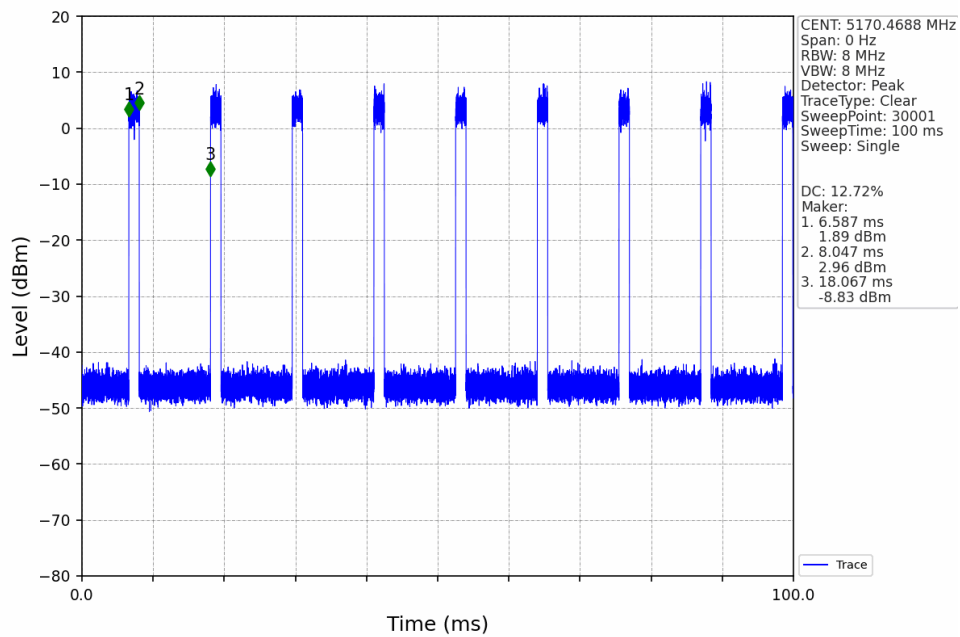


802.11ac(VHT80) MCH 5210MHz\_Ant1\_NTNV

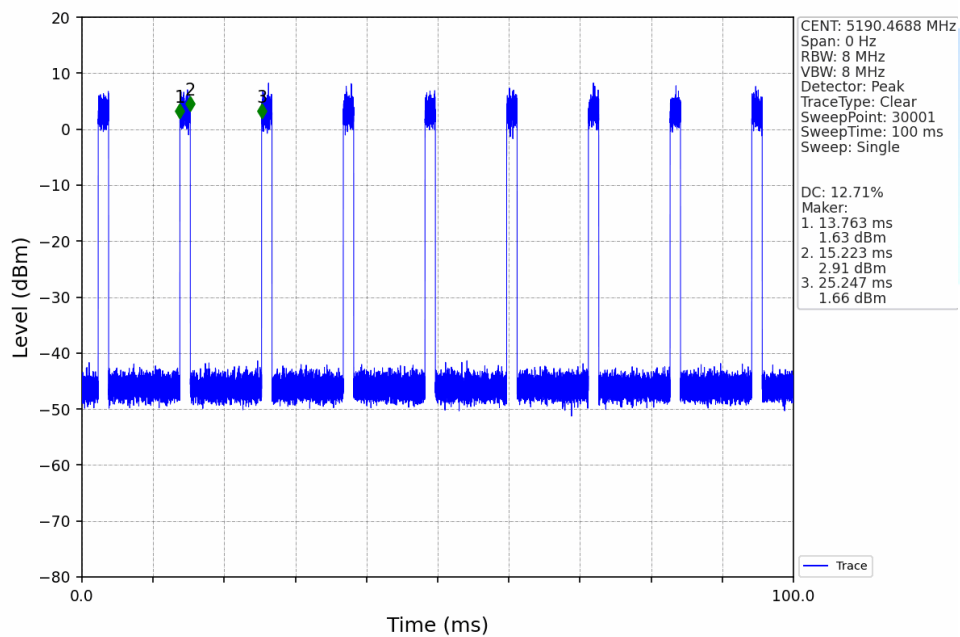




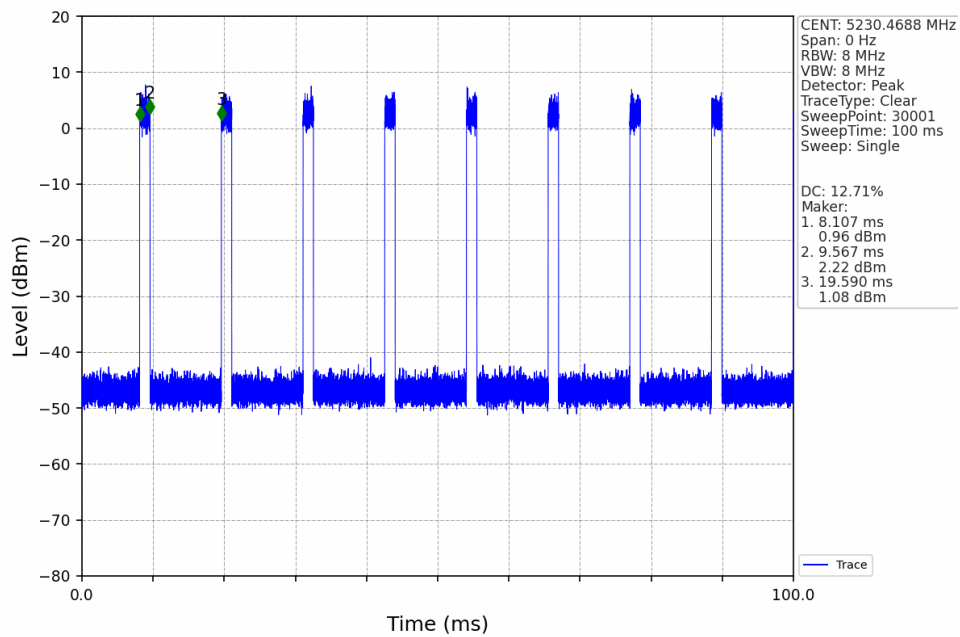
## 802.11ax(HEW20)\_LCH\_5180MHz\_SU\_ / Ant1\_NTNV



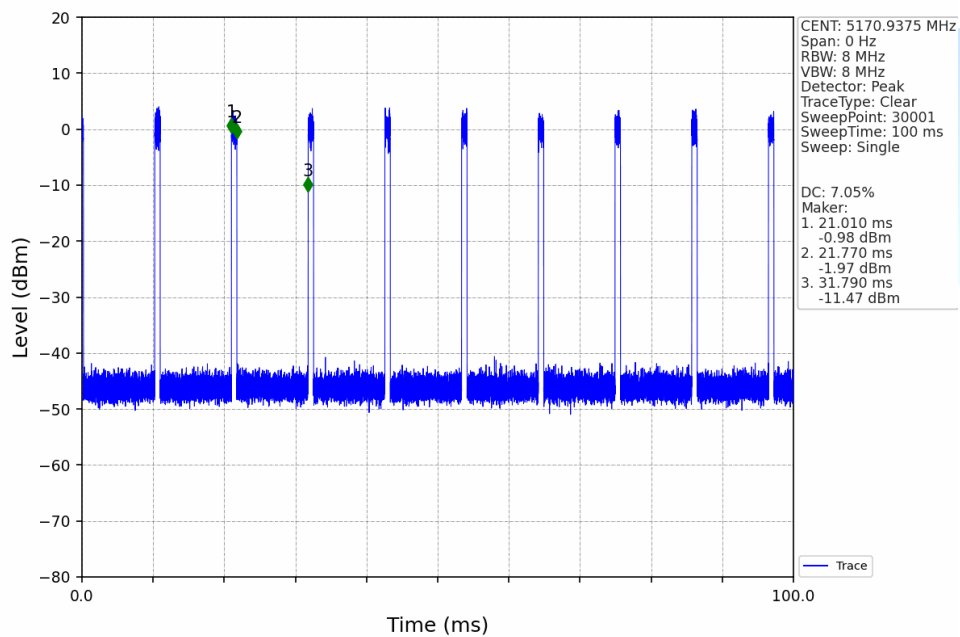
## 802.11ax(HEW20)\_MCH\_5200MHz\_SU\_ / Ant1\_NTNV



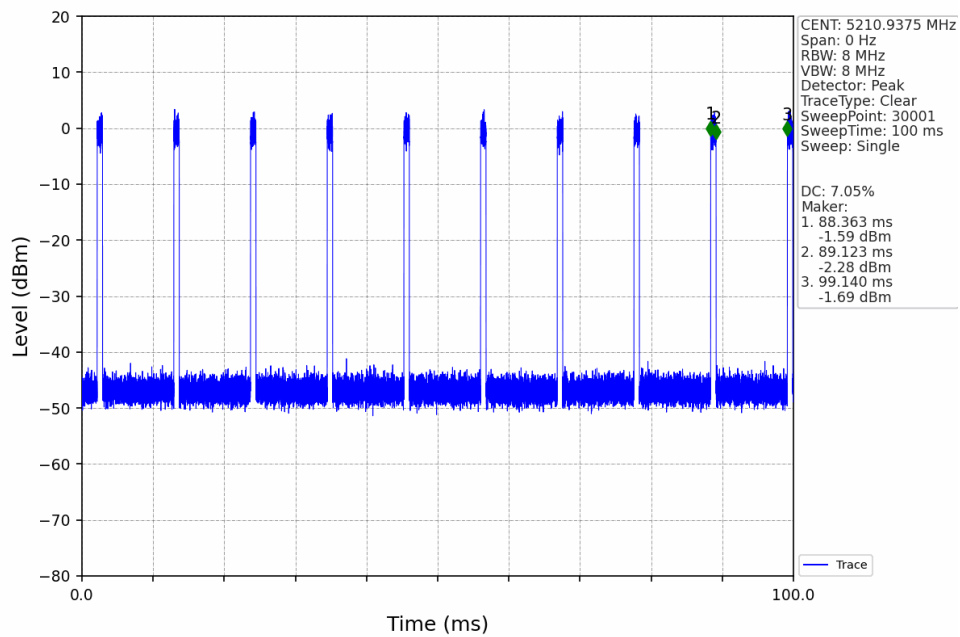
## 802.11ax(HEW20)\_HCH\_5240MHz\_SU\_ / Ant1\_NTNV



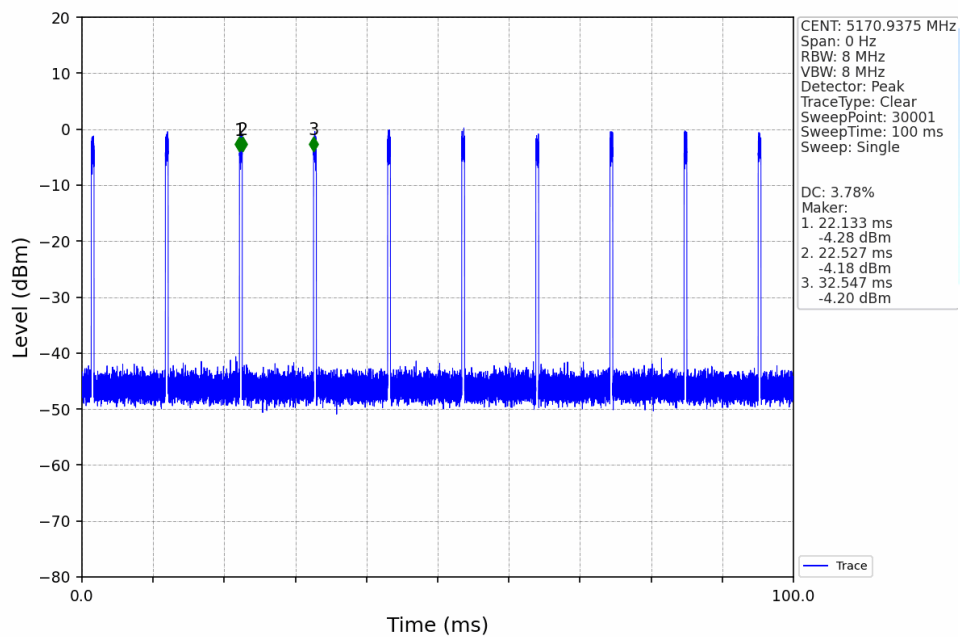
## 802.11ax(HEW40)\_LCH\_5190MHz\_SU\_ / Ant1\_NTNV



## 802.11ax(HEW40)\_HCH\_5230MHz\_SU / Ant1\_NTNV



## 802.11ax(HEW80)\_MCH\_5210MHz\_SU / Ant1\_NTNV



## 2. Bandwidth

### 2.1 Test Result

#### 2.1.1 OBW

| Mode             | TX Type | Frequency (MHz) | RU | RU Pos | ANT | 99% Occupied Bandwidth (MHz) |       | Verdict |
|------------------|---------|-----------------|----|--------|-----|------------------------------|-------|---------|
|                  |         |                 |    |        |     | Result                       | Limit |         |
| 802.11a          | SISO    | 5180            | /  | /      | 1   | 18.476                       | /     | Pass    |
|                  |         | 5200            | /  | /      | 1   | 18.191                       | /     | Pass    |
|                  |         | 5240            | /  | /      | 1   | 18.324                       | /     | Pass    |
| 802.11n (HT20)   | SISO    | 5180            | /  | /      | 1   | 19.235                       | /     | Pass    |
|                  |         | 5200            | /  | /      | 1   | 19.183                       | /     | Pass    |
|                  |         | 5240            | /  | /      | 1   | 19.434                       | /     | Pass    |
| 802.11n (HT40)   | SISO    | 5190            | /  | /      | 1   | 37.297                       | /     | Pass    |
|                  |         | 5230            | /  | /      | 1   | 37.525                       | /     | Pass    |
| 802.11ac (VHT20) | SISO    | 5180            | /  | /      | 1   | 19.227                       | /     | Pass    |
|                  |         | 5200            | /  | /      | 1   | 19.273                       | /     | Pass    |
|                  |         | 5240            | /  | /      | 1   | 19.240                       | /     | Pass    |
| 802.11ac (VHT40) | SISO    | 5190            | /  | /      | 1   | 37.425                       | /     | Pass    |
|                  |         | 5230            | /  | /      | 1   | 37.484                       | /     | Pass    |
| 802.11ac (VHT80) | SISO    | 5210            | /  | /      | 1   | 76.594                       | /     | Pass    |
| 802.11ax (HEW20) | SISO    | 5180            | SU | /      | 1   | 19.806                       | /     | Pass    |
|                  |         | 5200            | SU | /      | 1   | 19.806                       | /     | Pass    |
|                  |         | 5240            | SU | /      | 1   | 19.855                       | /     | Pass    |
| 802.11ax (HEW40) | SISO    | 5190            | SU | /      | 1   | 38.693                       | /     | Pass    |
|                  |         | 5230            | SU | /      | 1   | 38.557                       | /     | Pass    |
| 802.11ax (HEW80) | SISO    | 5210            | SU | /      | 1   | 78.097                       | /     | Pass    |

#### 2.1.2 26dB BW

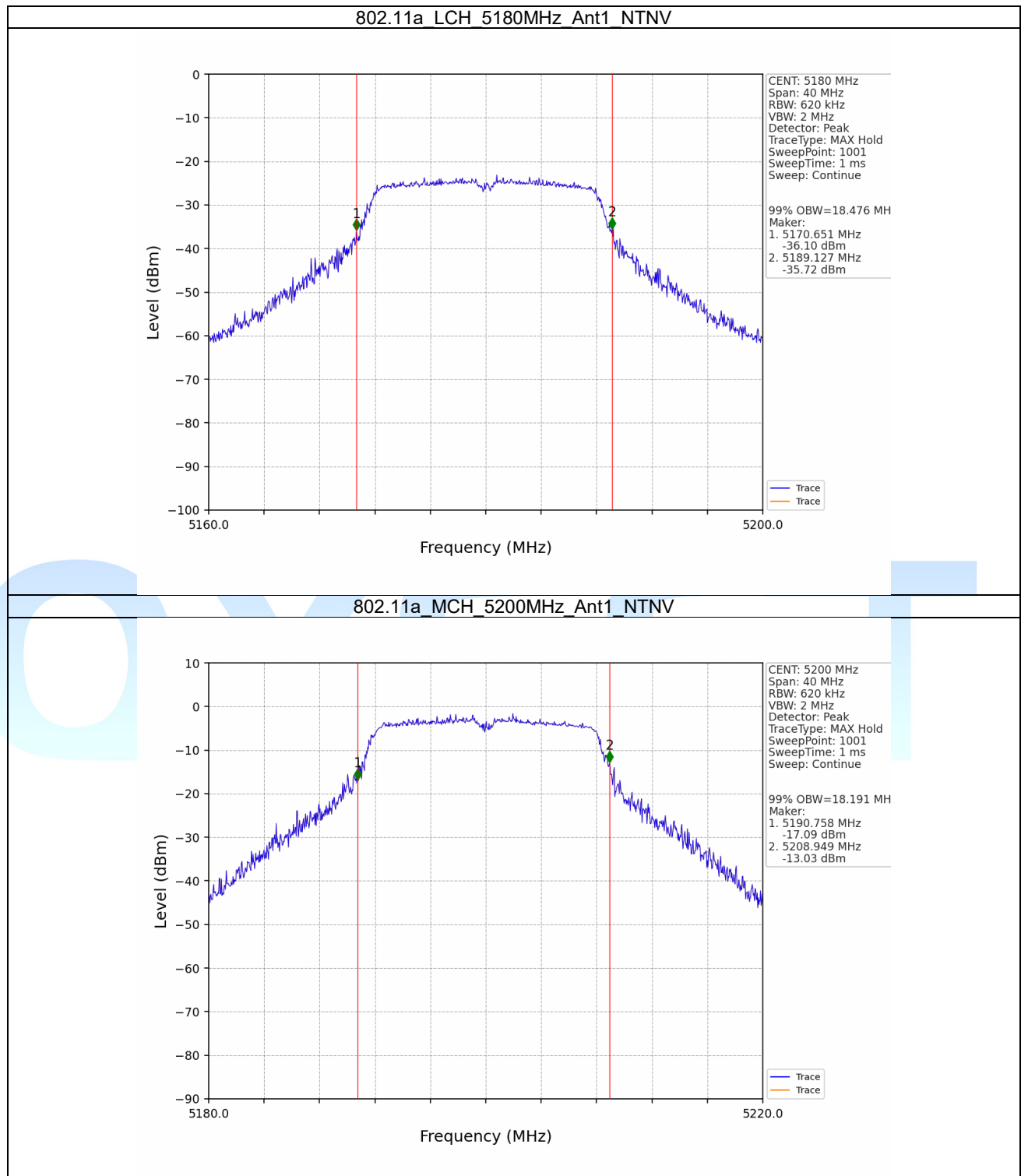
| Mode             | TX Type | Frequency (MHz) | RU | RU Pos | ANT | 26dB Bandwidth (MHz) |       | Verdict |
|------------------|---------|-----------------|----|--------|-----|----------------------|-------|---------|
|                  |         |                 |    |        |     | Result               | Limit |         |
| 802.11a          | SISO    | 5180            | /  | /      | 1   | 22.907               | /     | Pass    |
|                  |         | 5200            | /  | /      | 1   | 24.002               | /     | Pass    |
|                  |         | 5240            | /  | /      | 1   | 24.041               | /     | Pass    |
| 802.11n (HT20)   | SISO    | 5180            | /  | /      | 1   | 25.586               | /     | Pass    |
|                  |         | 5200            | /  | /      | 1   | 24.753               | /     | Pass    |
|                  |         | 5240            | /  | /      | 1   | 25.169               | /     | Pass    |
| 802.11n (HT40)   | SISO    | 5190            | /  | /      | 1   | 45.102               | /     | Pass    |
|                  |         | 5230            | /  | /      | 1   | 45.351               | /     | Pass    |
| 802.11ac (VHT20) | SISO    | 5180            | /  | /      | 1   | 24.390               | /     | Pass    |
|                  |         | 5200            | /  | /      | 1   | 23.877               | /     | Pass    |
|                  |         | 5240            | /  | /      | 1   | 24.908               | /     | Pass    |
| 802.11ac (VHT40) | SISO    | 5190            | /  | /      | 1   | 45.876               | /     | Pass    |
|                  |         | 5230            | /  | /      | 1   | 46.022               | /     | Pass    |
| 802.11ac (VHT80) | SISO    | 5210            | /  | /      | 1   | 86.679               | /     | Pass    |
| 802.11ax (HEW20) | SISO    | 5180            | SU | /      | 1   | 24.748               | /     | Pass    |
|                  |         | 5200            | SU | /      | 1   | 24.780               | /     | Pass    |
|                  |         | 5240            | SU | /      | 1   | 24.205               | /     | Pass    |
| 802.11ax (HEW40) | SISO    | 5190            | SU | /      | 1   | 44.322               | /     | Pass    |
|                  |         | 5230            | SU | /      | 1   | 43.010               | /     | Pass    |
| 802.11ax         | SISO    | 5210            | SU | /      | 1   | 84.639               | /     | Pass    |

|         |  |  |  |  |  |  |  |  |
|---------|--|--|--|--|--|--|--|--|
| (HEW80) |  |  |  |  |  |  |  |  |
|---------|--|--|--|--|--|--|--|--|

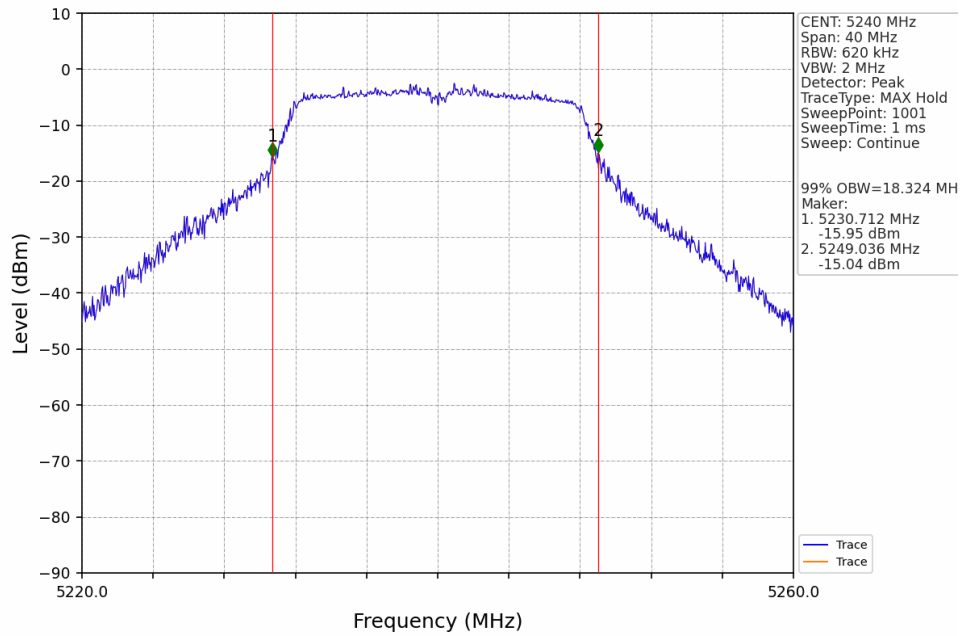


## 2.2 Test Graph

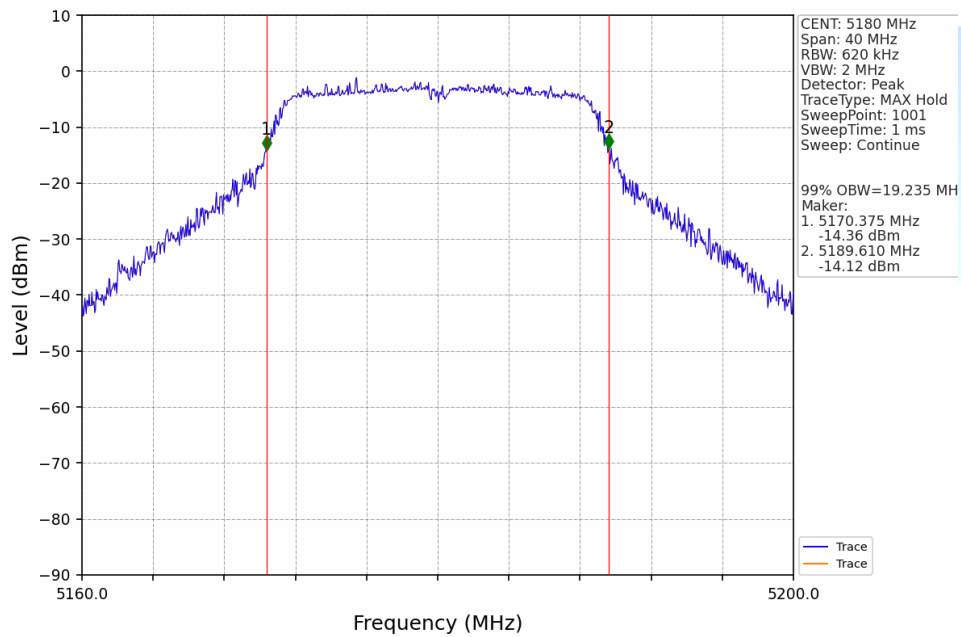
### 2.2.1 OBW



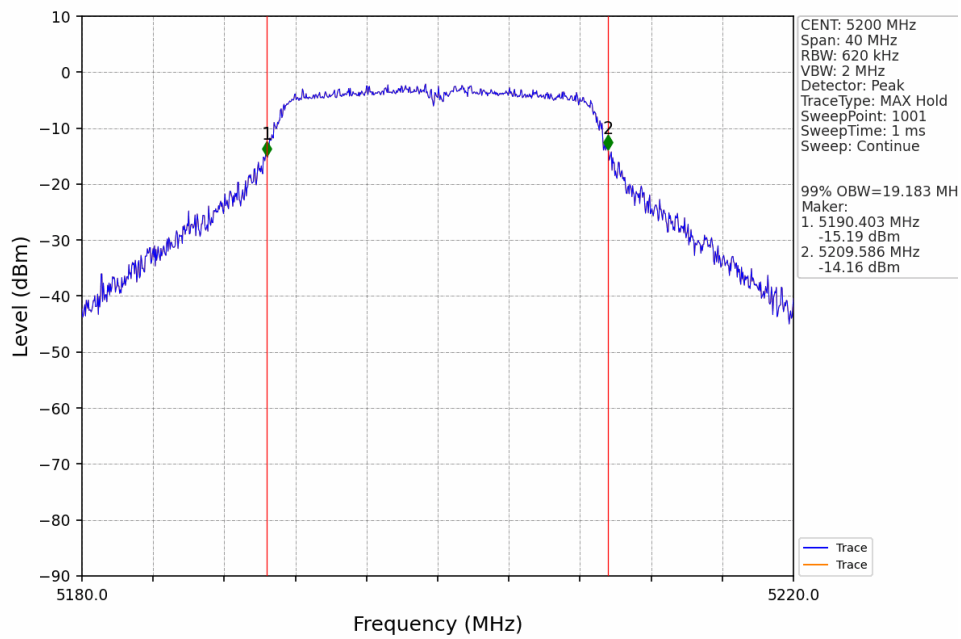
802.11a\_HCH\_5240MHz\_Ant1\_NTNV



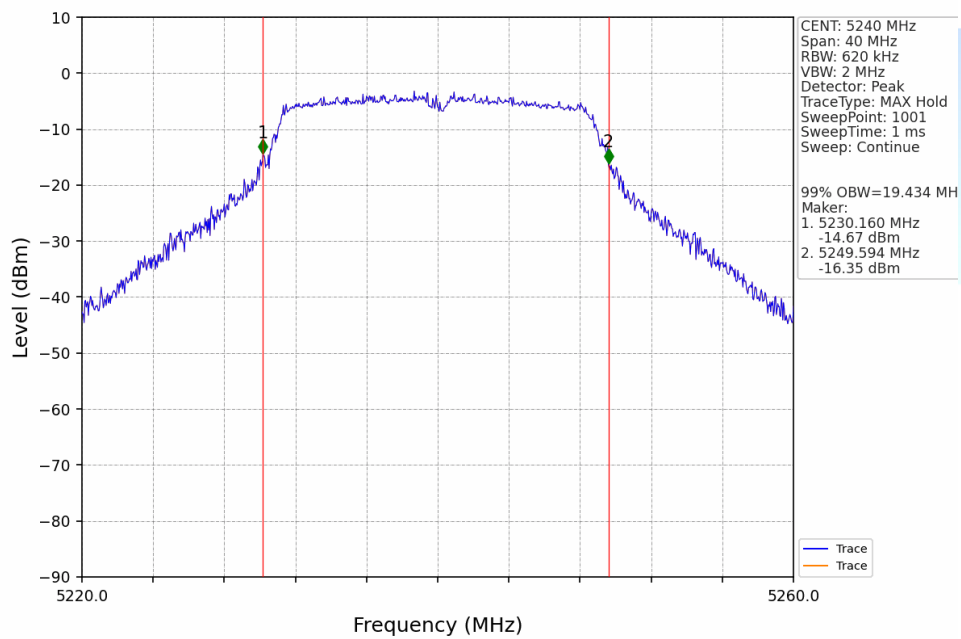
802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



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

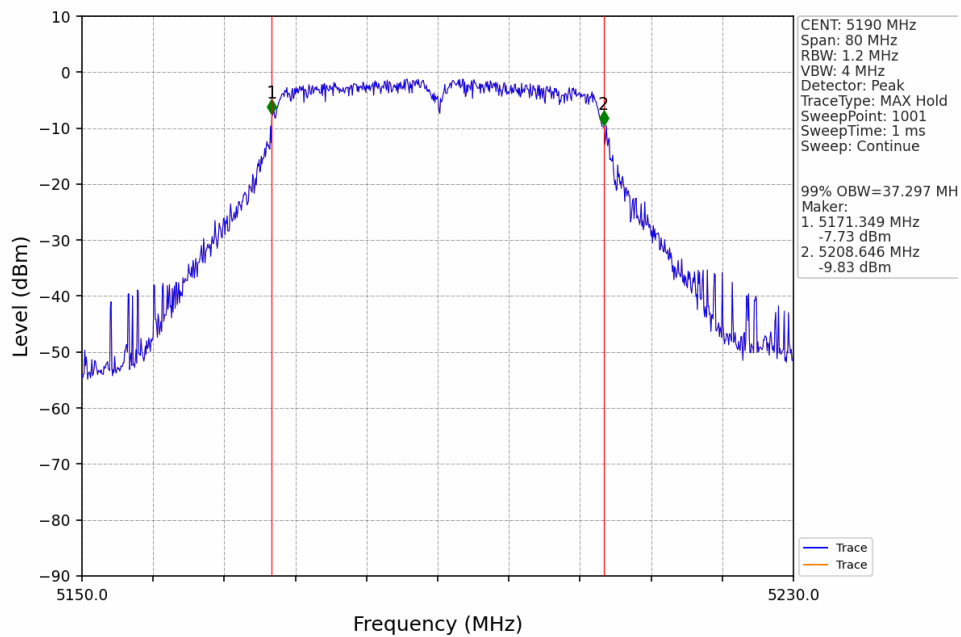


802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV

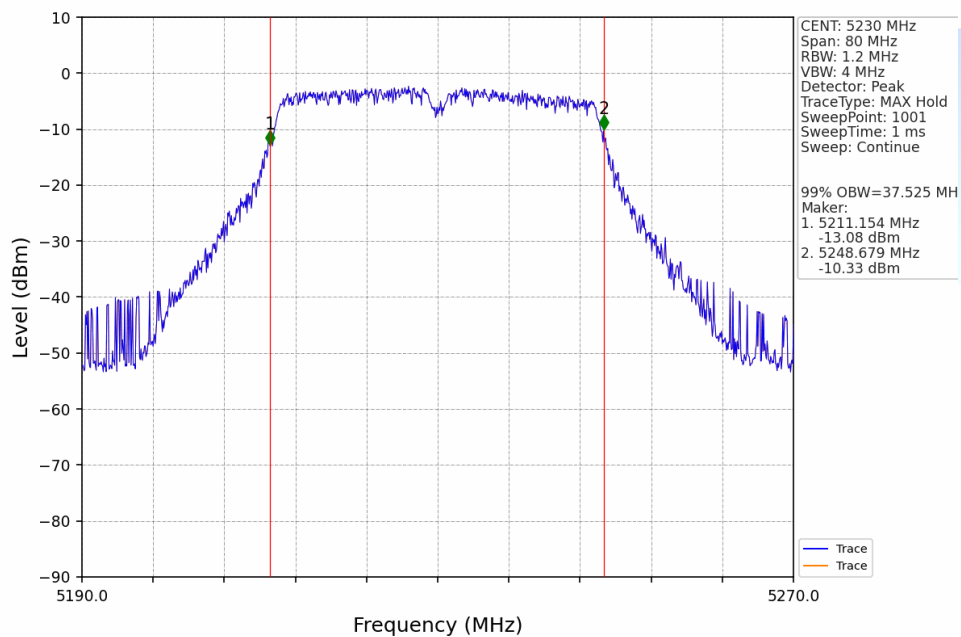




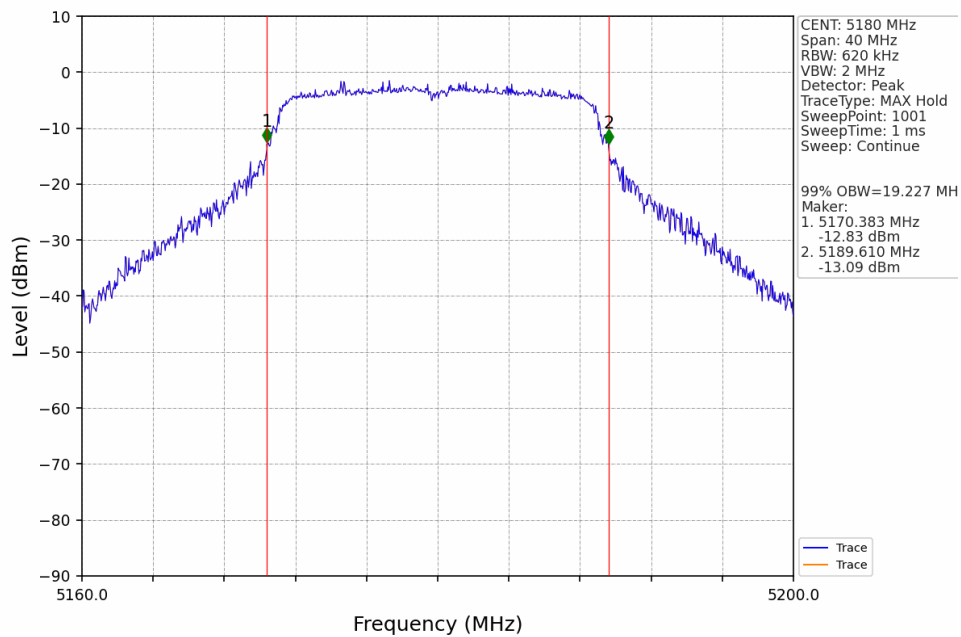
802.11n(HT40) LCH 5190MHz\_Ant1\_NTNV



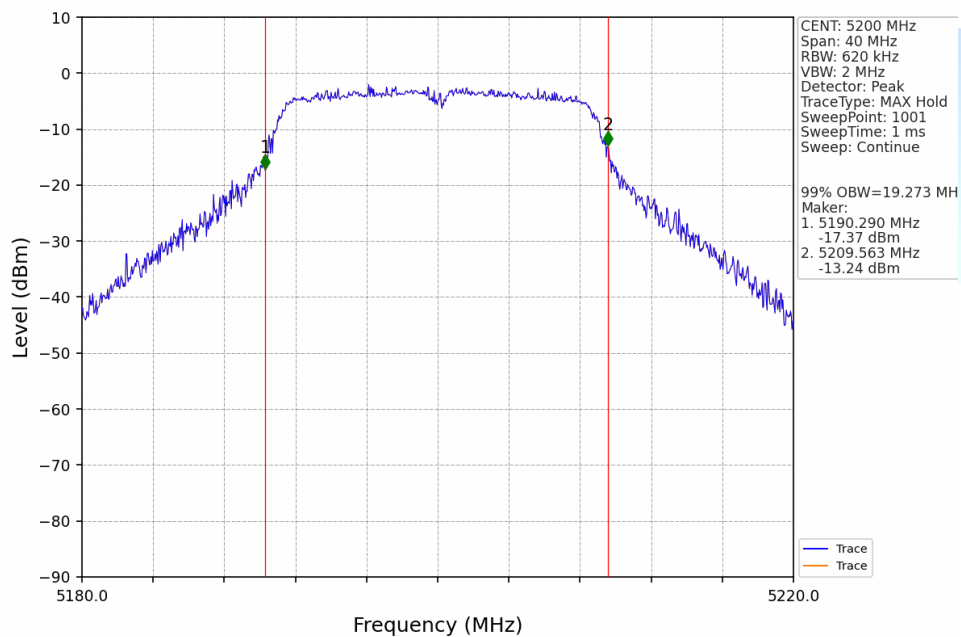
802.11n(HT40) HCH 5230MHz\_Ant1\_NTNV



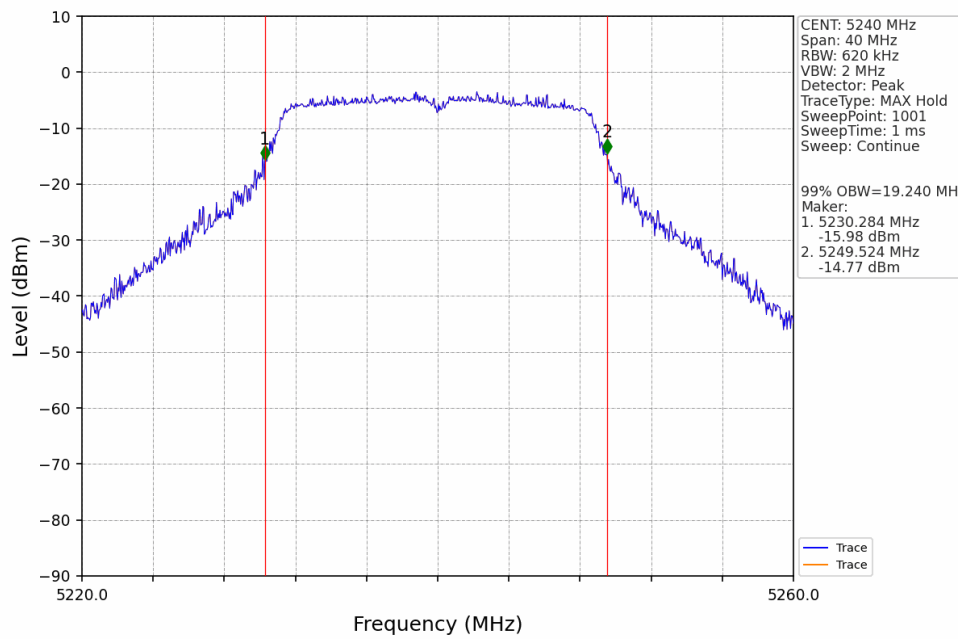
802.11ac(VHT20) LCH\_5180MHz\_Ant1\_NTNV



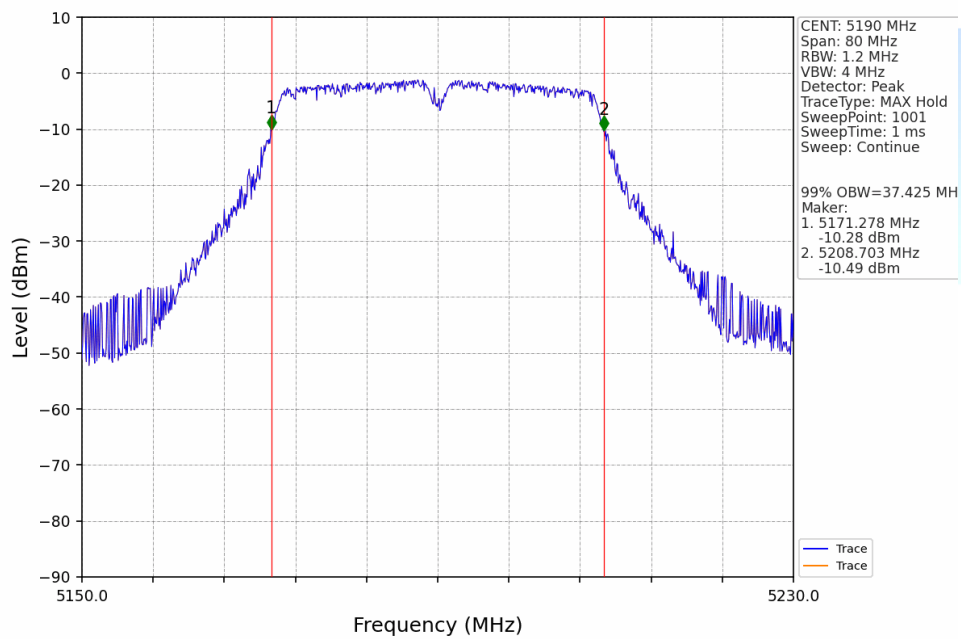
802.11ac(VHT20) MCH\_5200MHz\_Ant1\_NTNV



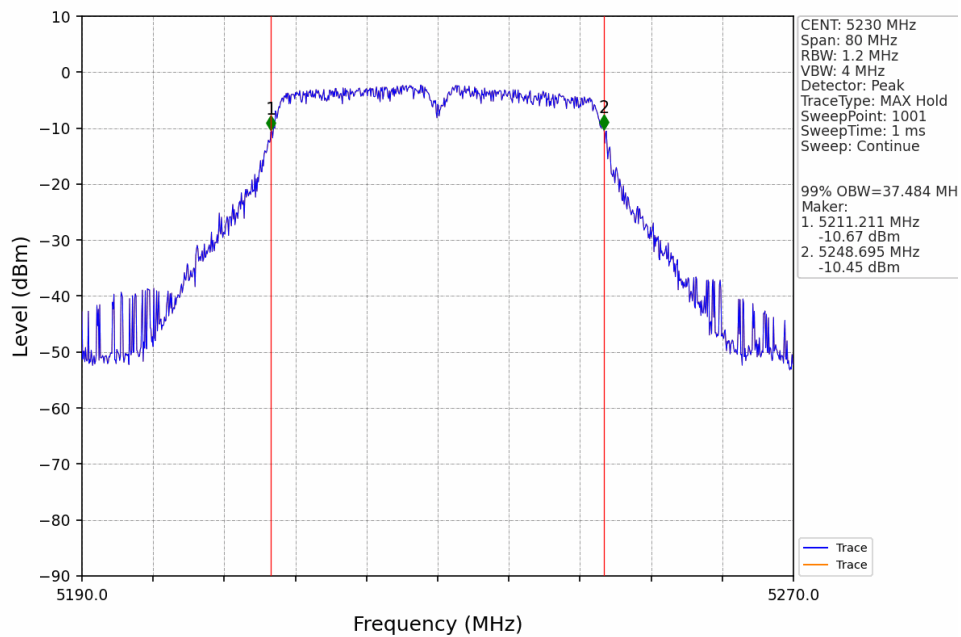
802.11ac(VHT20) HCH 5240MHz Ant1\_NTNV



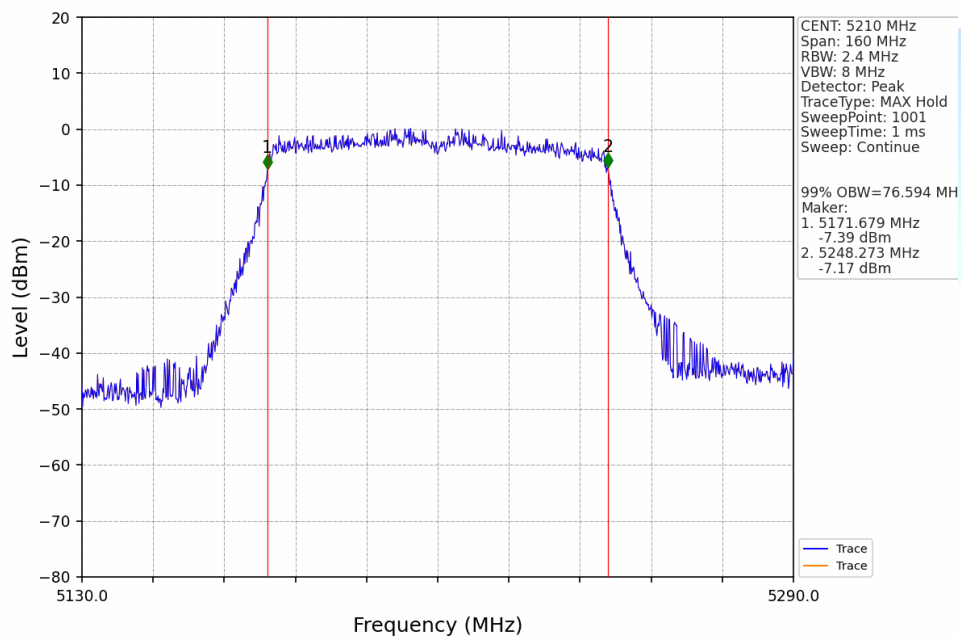
802.11ac(VHT40) LCH 5190MHz Ant1\_NTNV



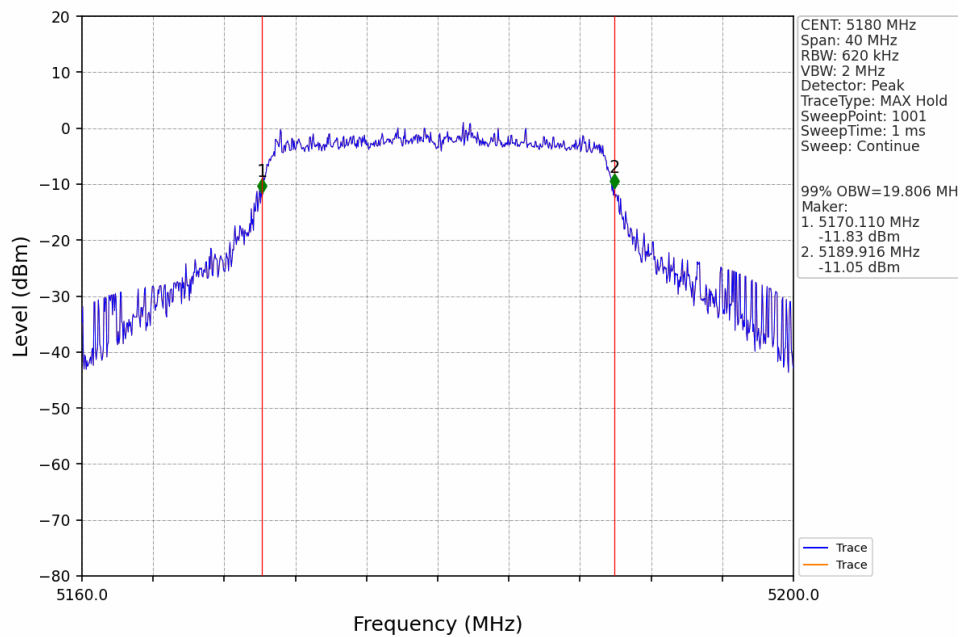
802.11ac(VHT40) HCH 5230MHz\_Ant1\_NTNV



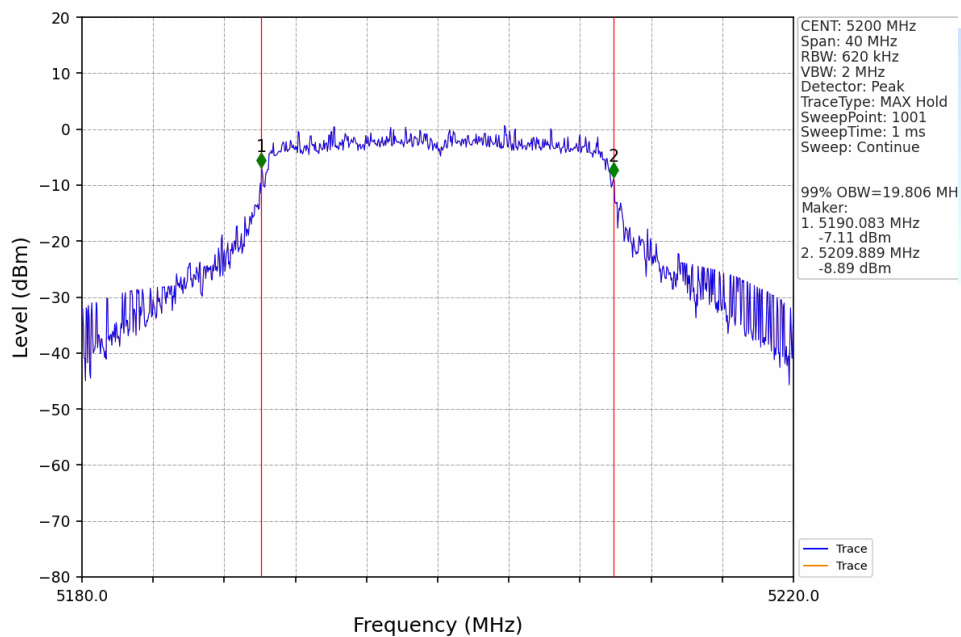
802.11ac(VHT80) MCH 5210MHz\_Ant1\_NTNV



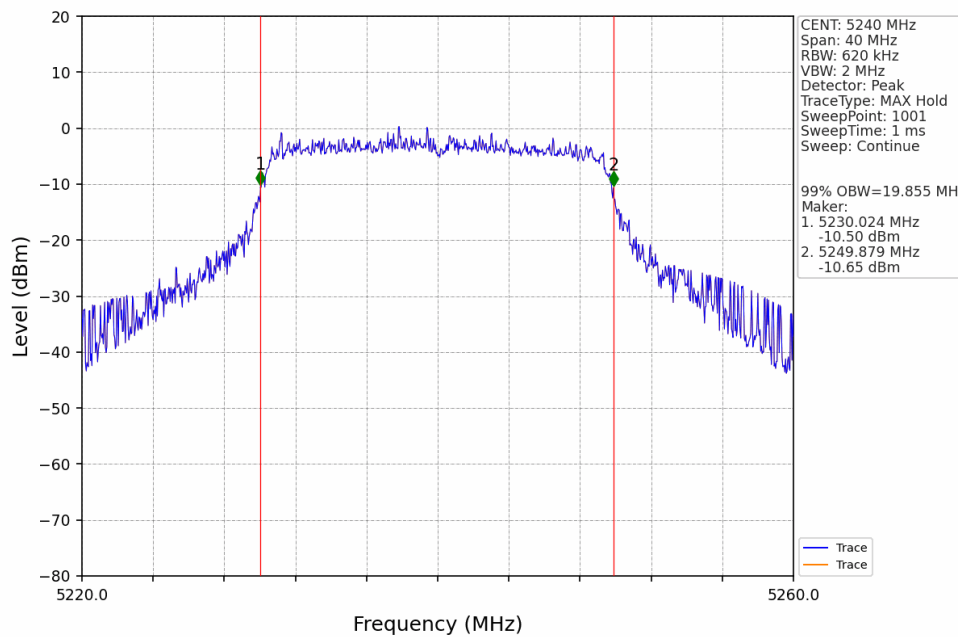
802.11ax(HEW20)\_LCH\_5180MHz\_SU\_ / Ant1\_NTNV



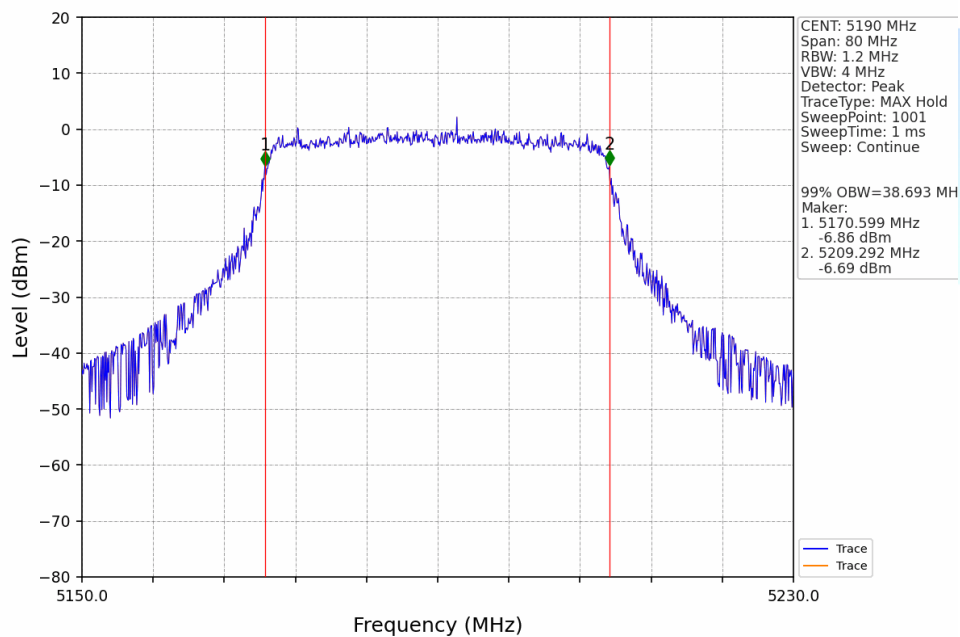
802.11ax(HEW20)\_MCH\_5200MHz\_SU\_ / Ant1\_NTNV



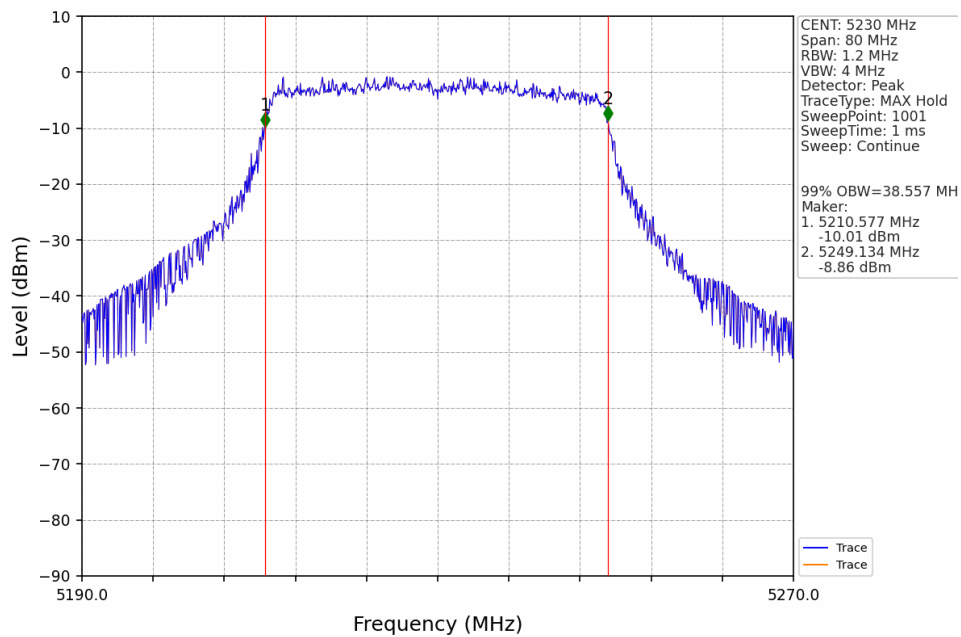
802.11ax(HEW20)\_HCH\_5240MHz\_SU / Ant1\_NTNV



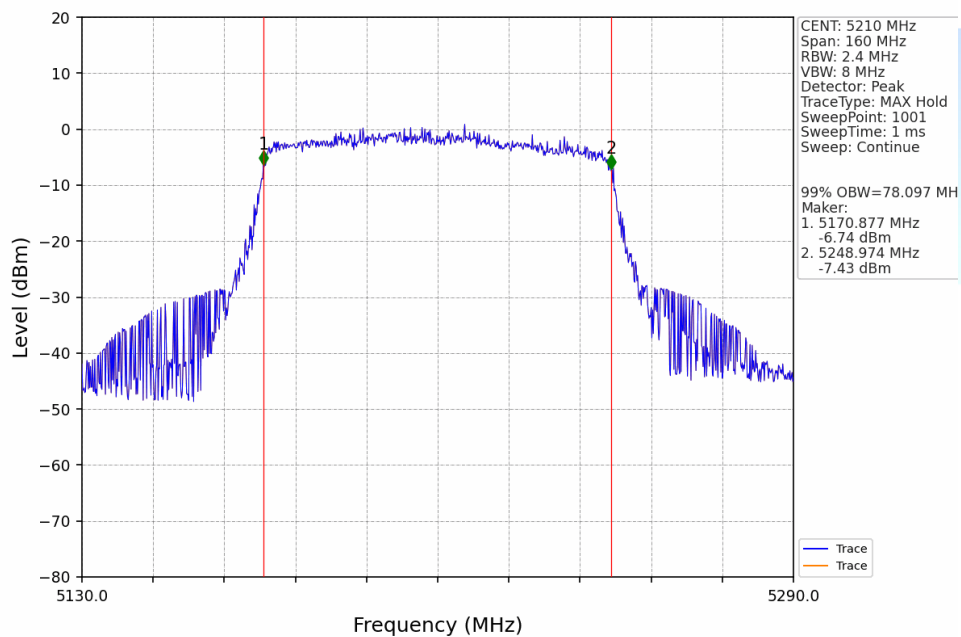
802.11ax(HEW40)\_LCH\_5190MHz\_SU / Ant1\_NTNV



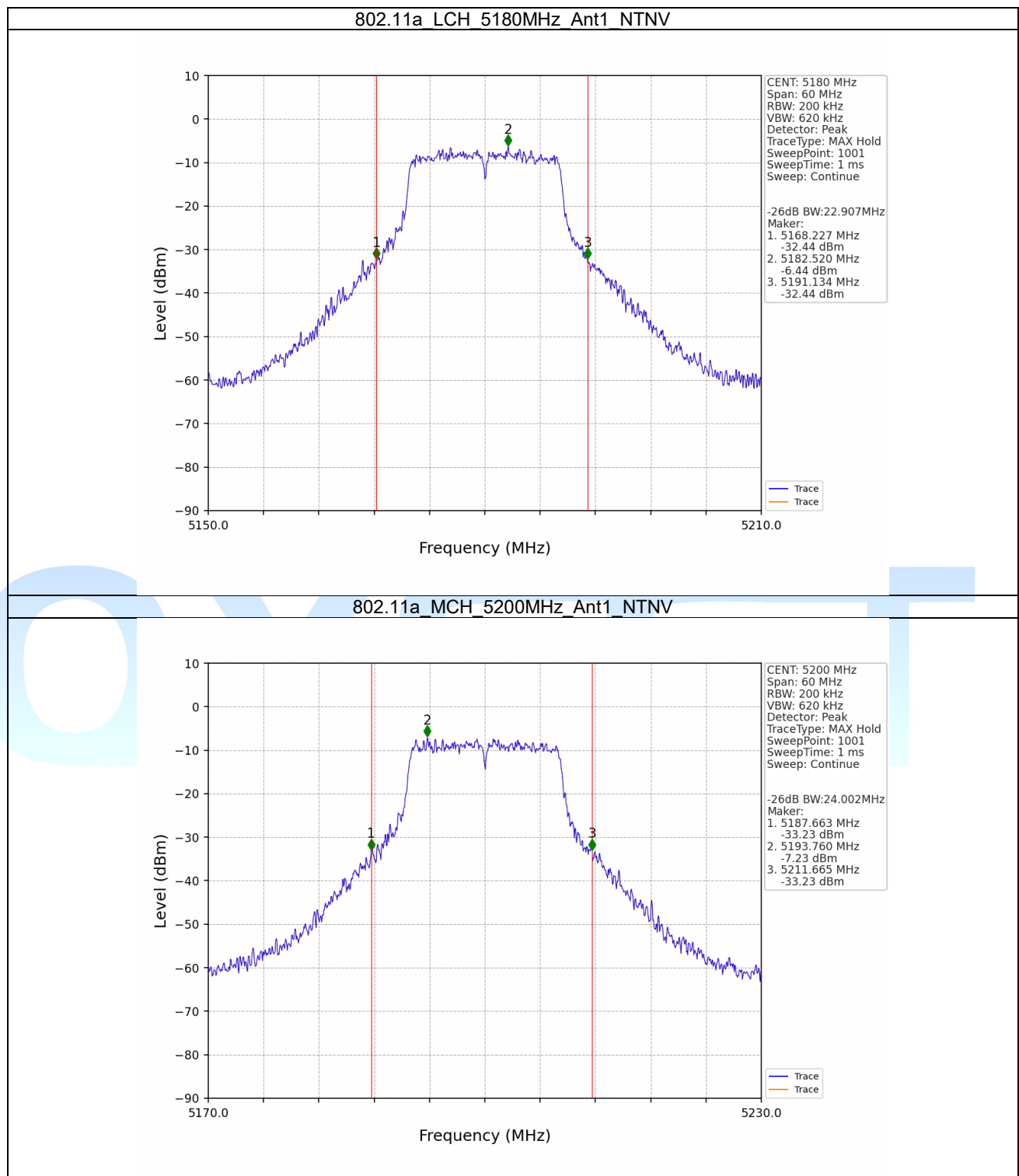
802.11ax(HEW40)\_HCH\_5230MHz\_SU / Ant1\_NTNV



802.11ax(HEW80)\_MCH\_5210MHz\_SU / Ant1\_NTNV

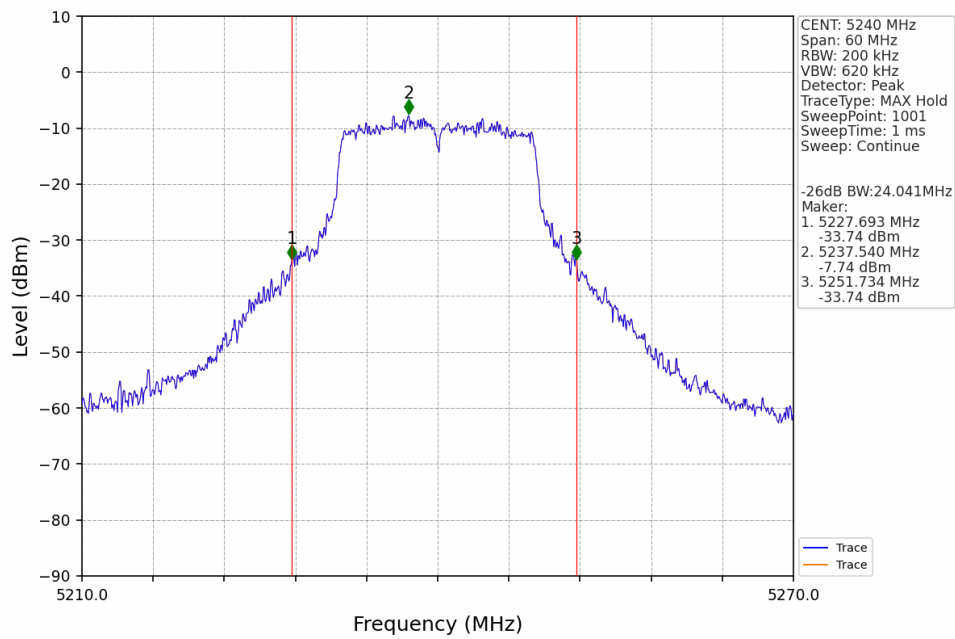


## 2.2.2 26dB BW

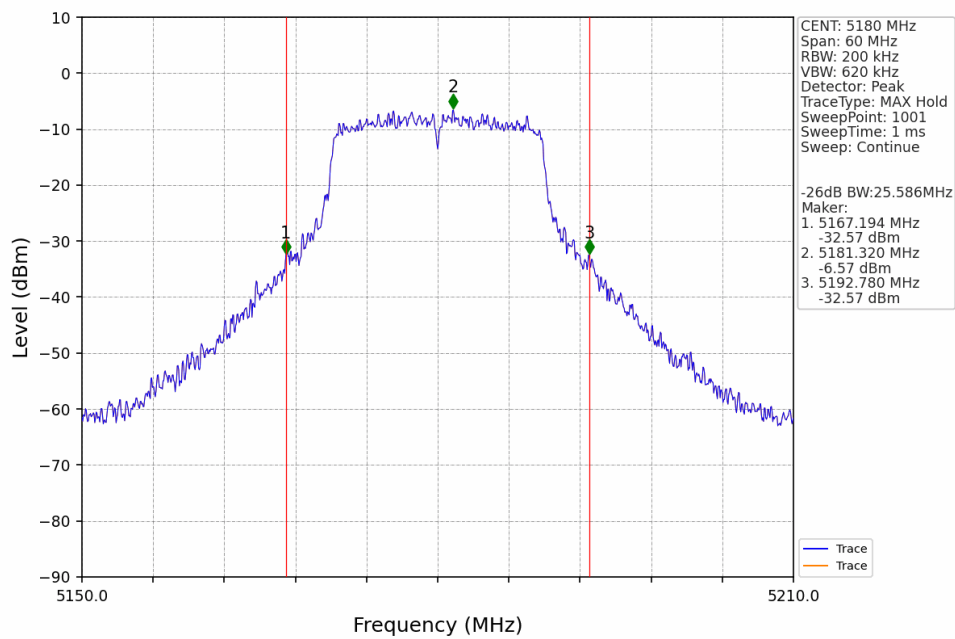




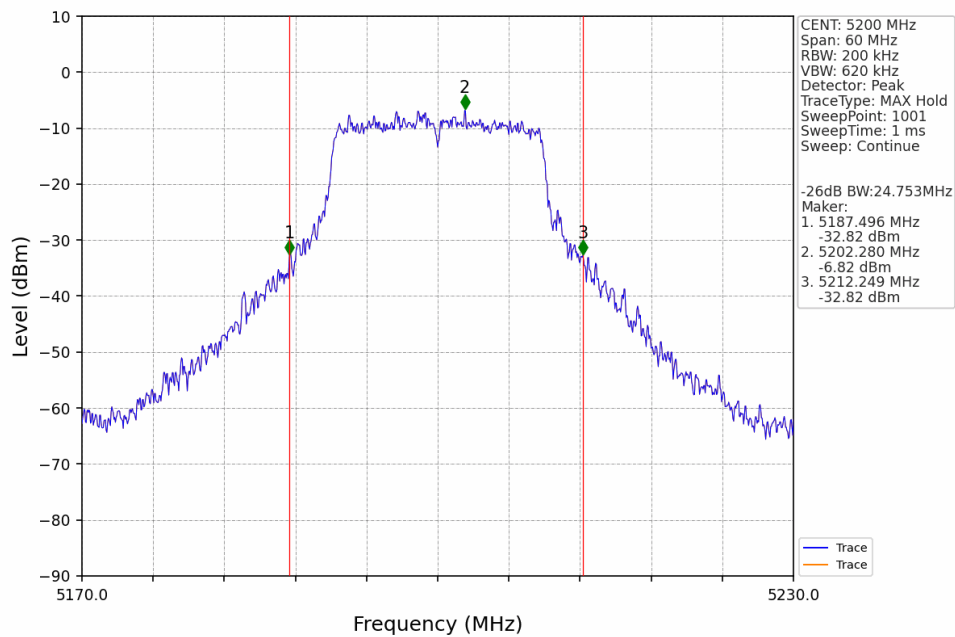
802.11a\_HCH\_5240MHz\_Ant1\_NTNV



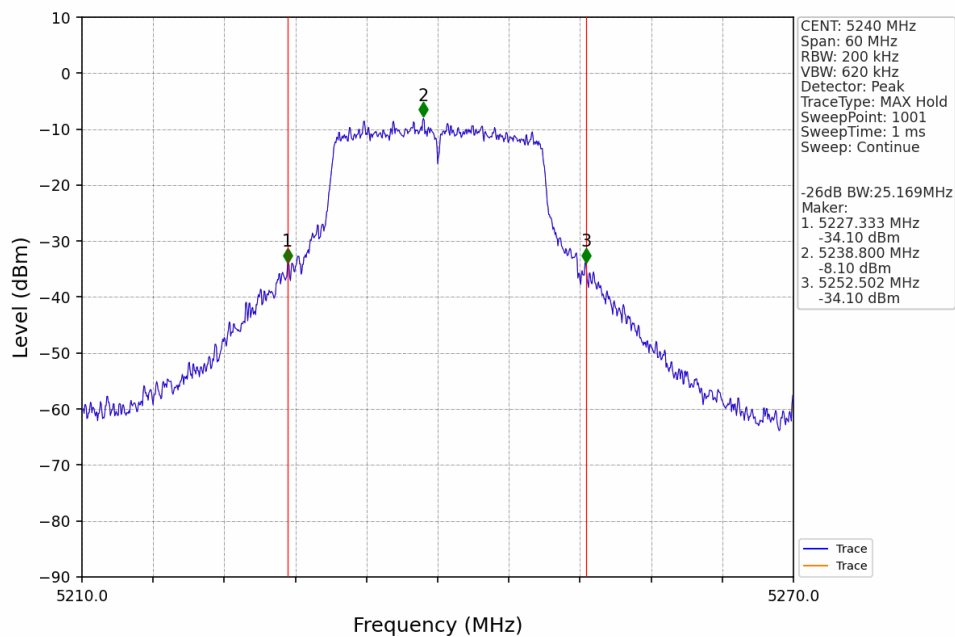
802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



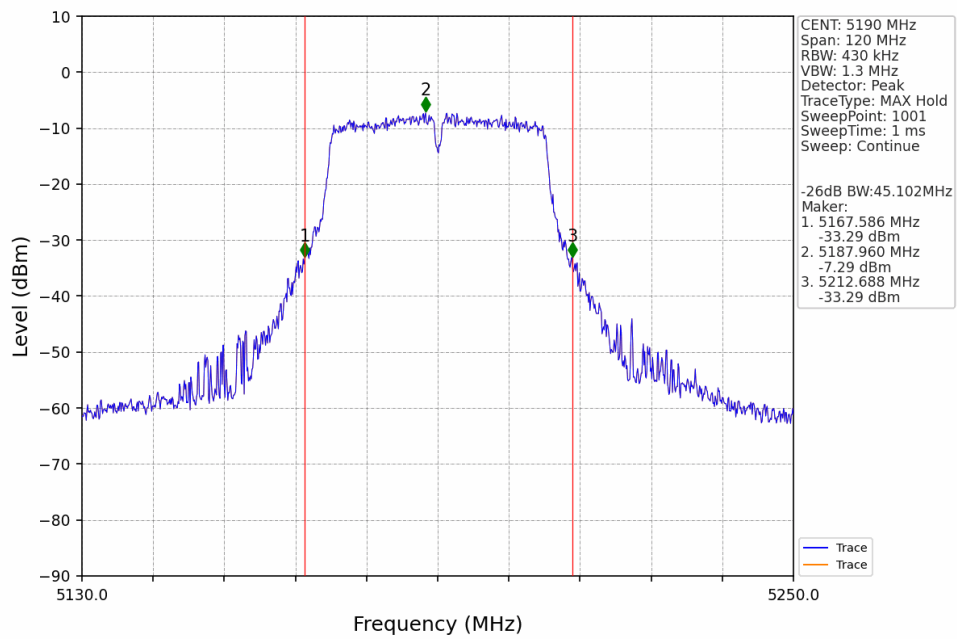
802.11n(HT20) MCH 5200MHz\_Ant1\_NTNV



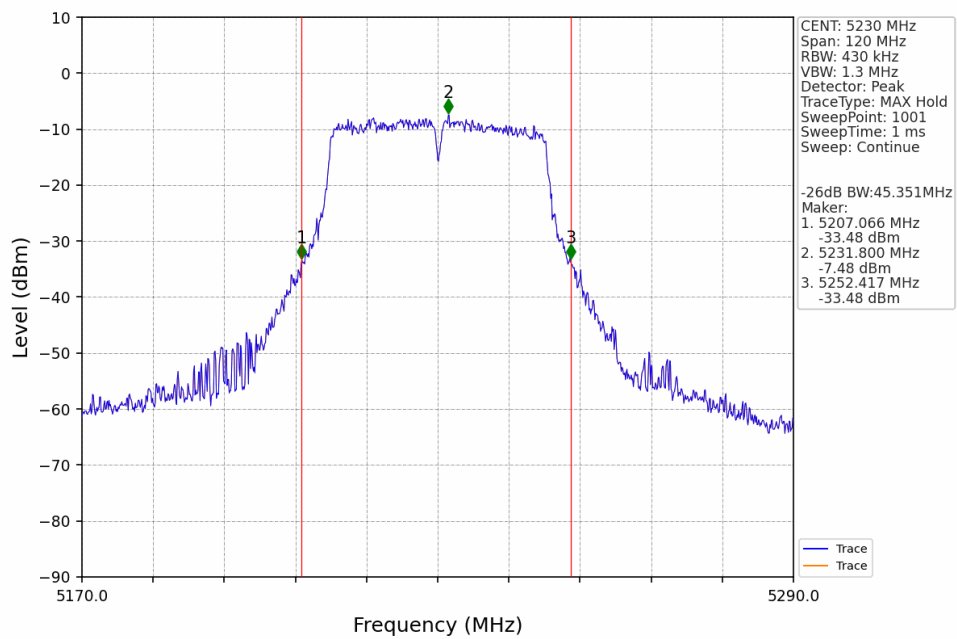
802.11n(HT20) HCH 5240MHz\_Ant1\_NTNV



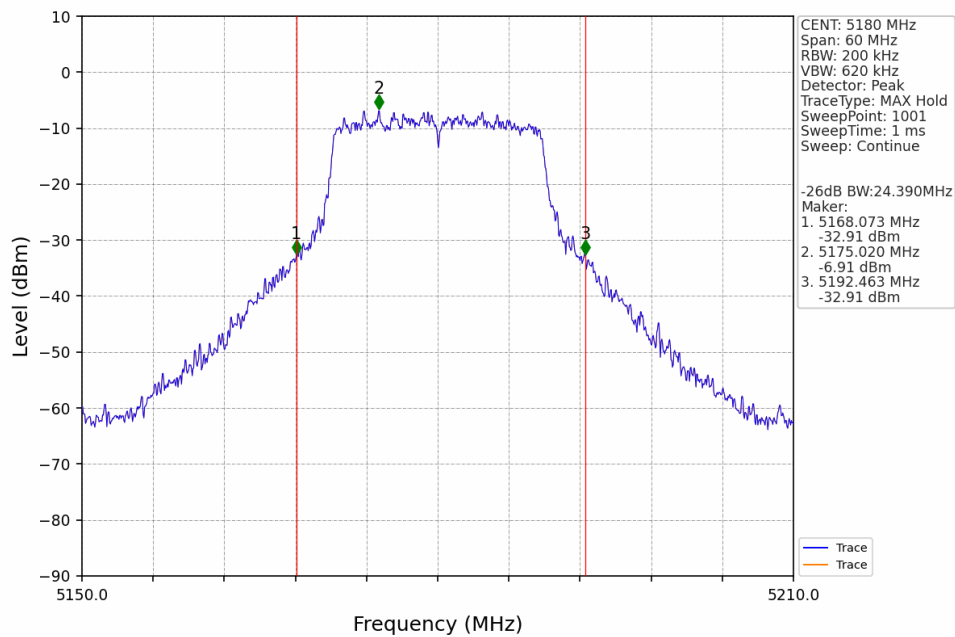
802.11n(HT40) LCH 5190MHz\_Ant1\_NTNV



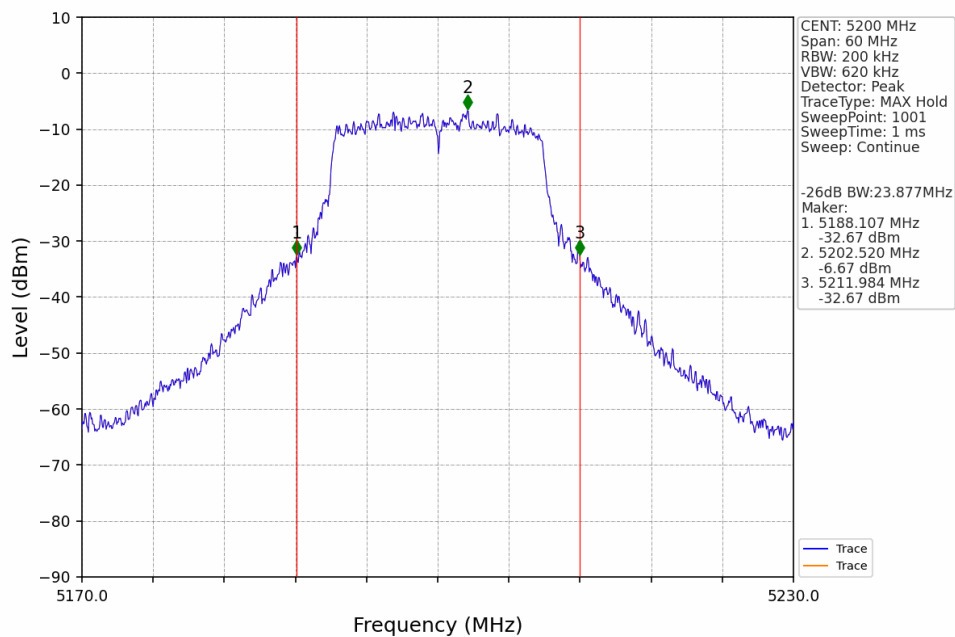
802.11n(HT40) HCH 5230MHz\_Ant1\_NTNV



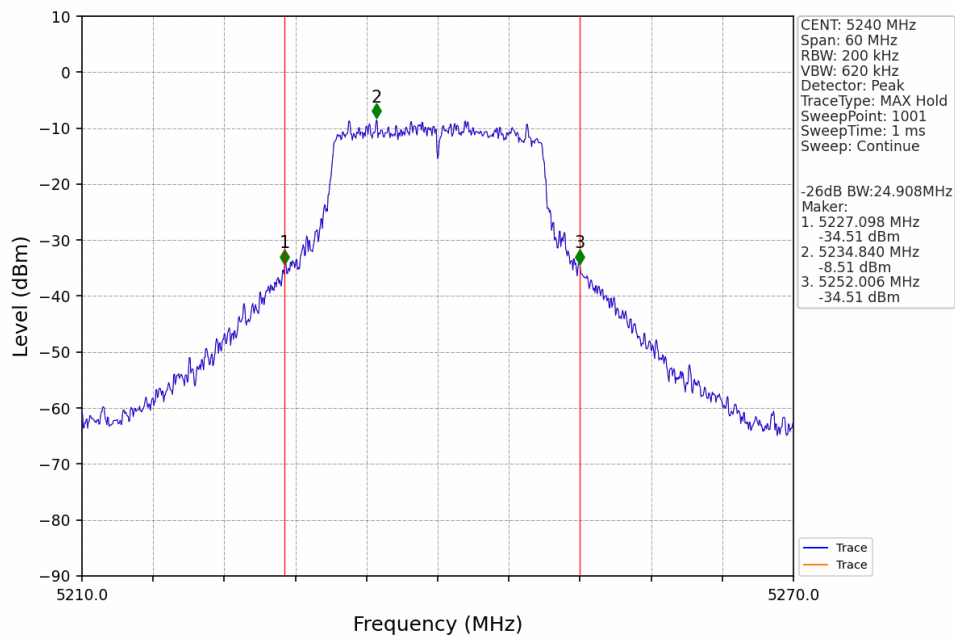
802.11ac(VHT20)\_LCH\_5180MHz\_Ant1\_NTNV



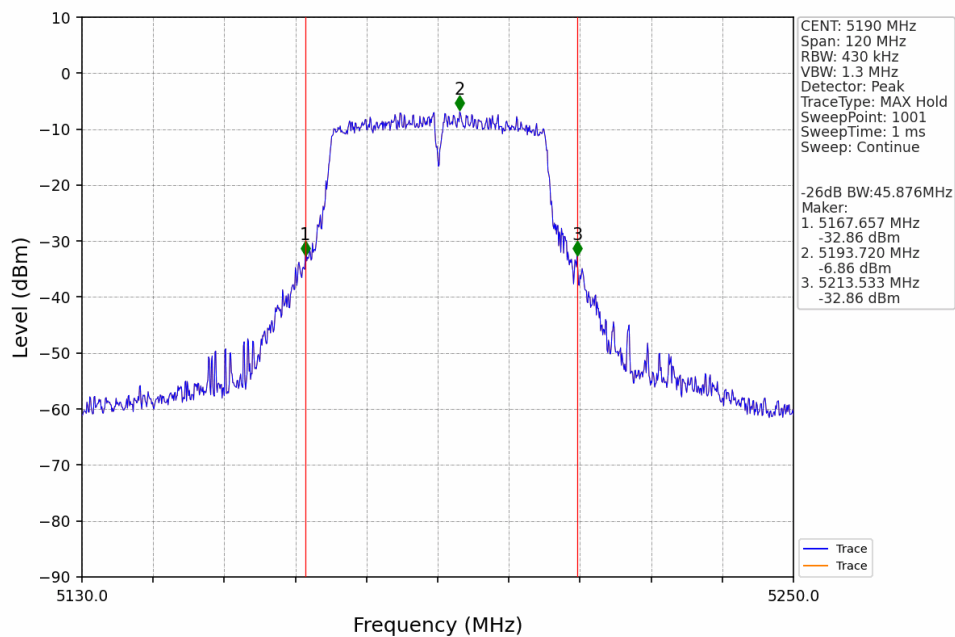
802.11ac(VHT20)\_MCH\_5200MHz\_Ant1\_NTNV



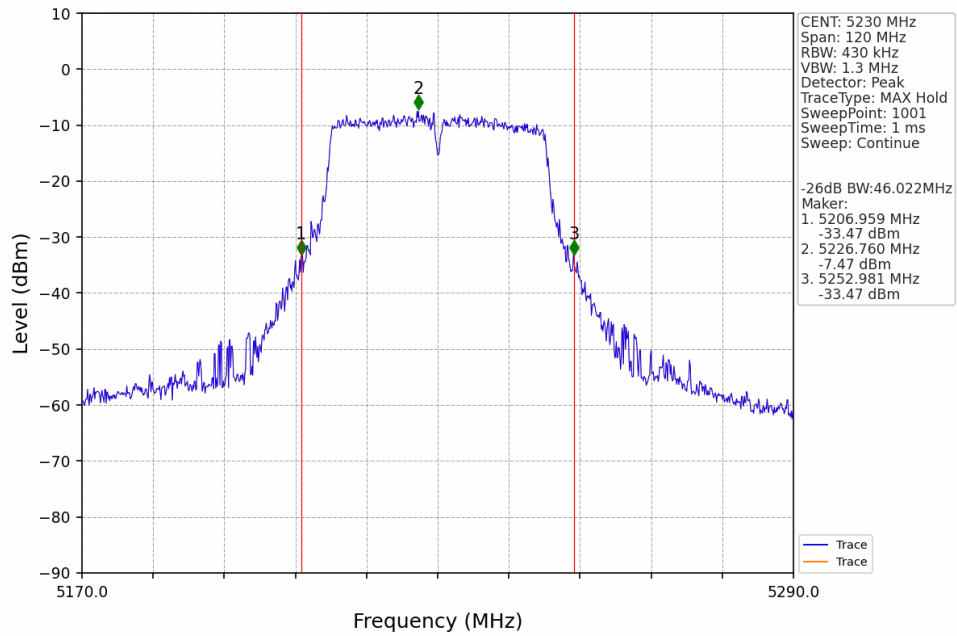
802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV



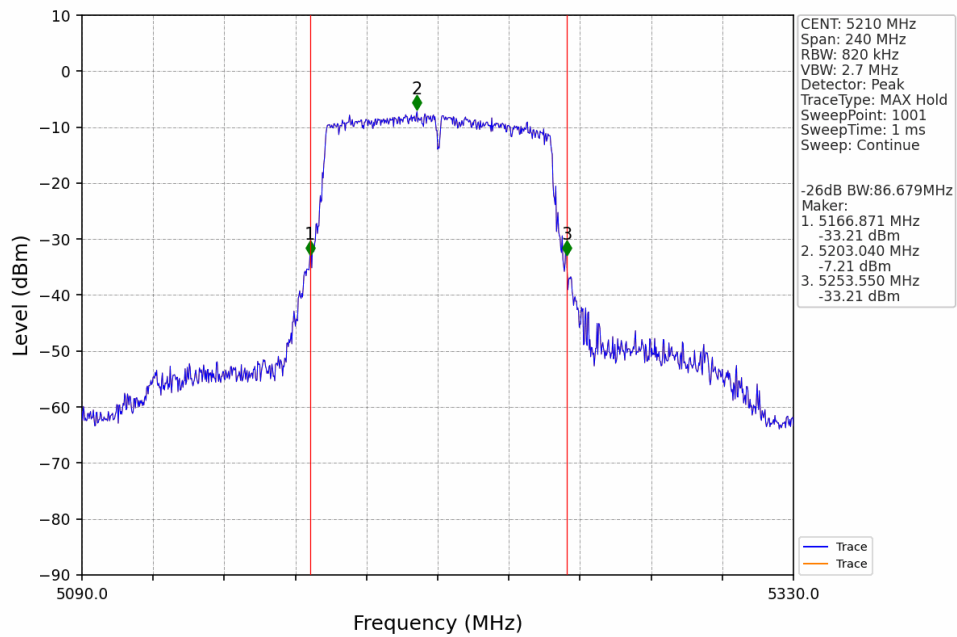
802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV



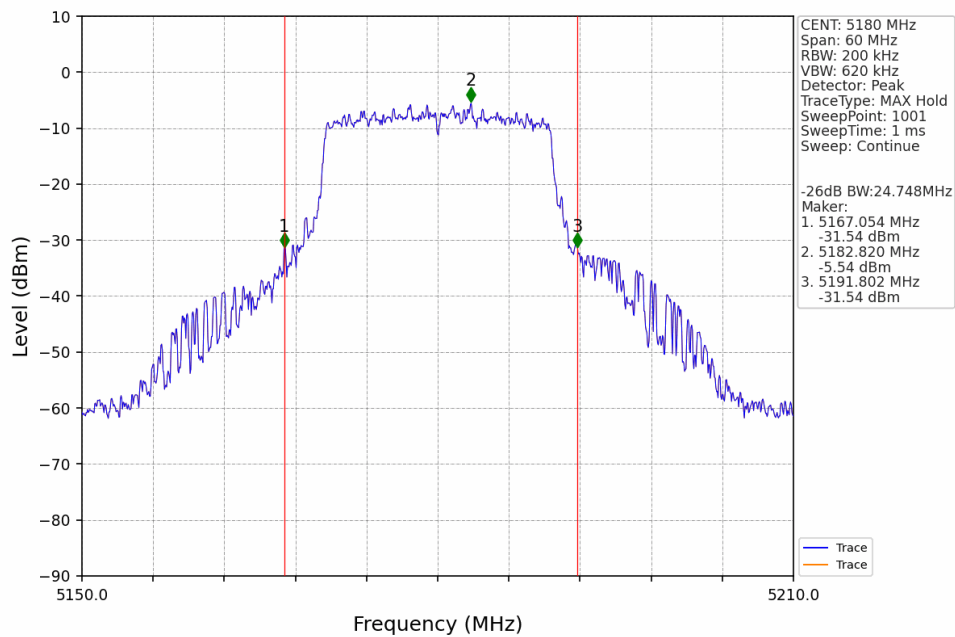
802.11ac(VHT40)\_HCH\_5230MHz\_Ant1\_NTNV



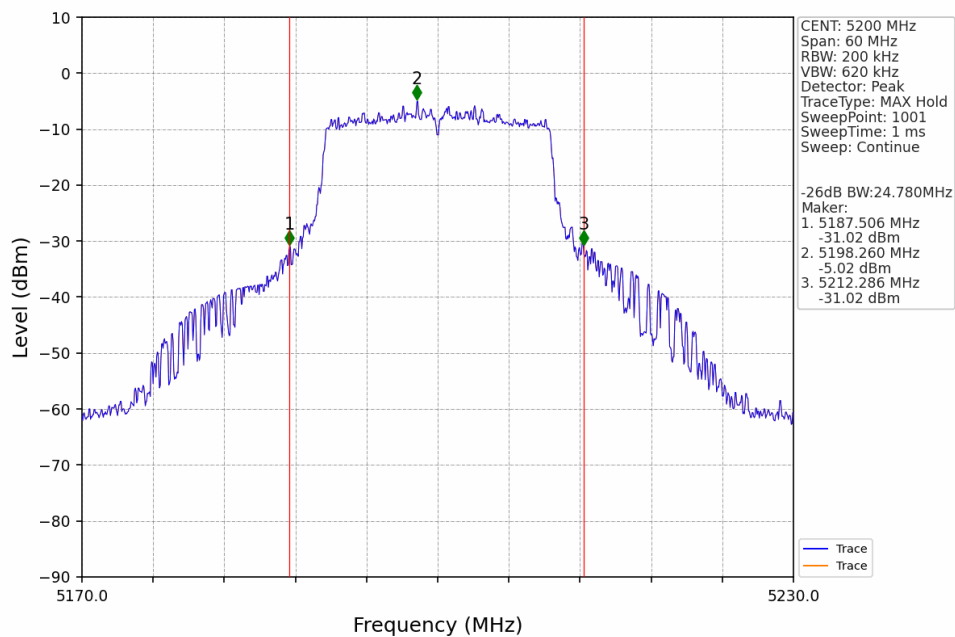
802.11ac(VHT80)\_MCH\_5210MHz\_Ant1\_NTNV



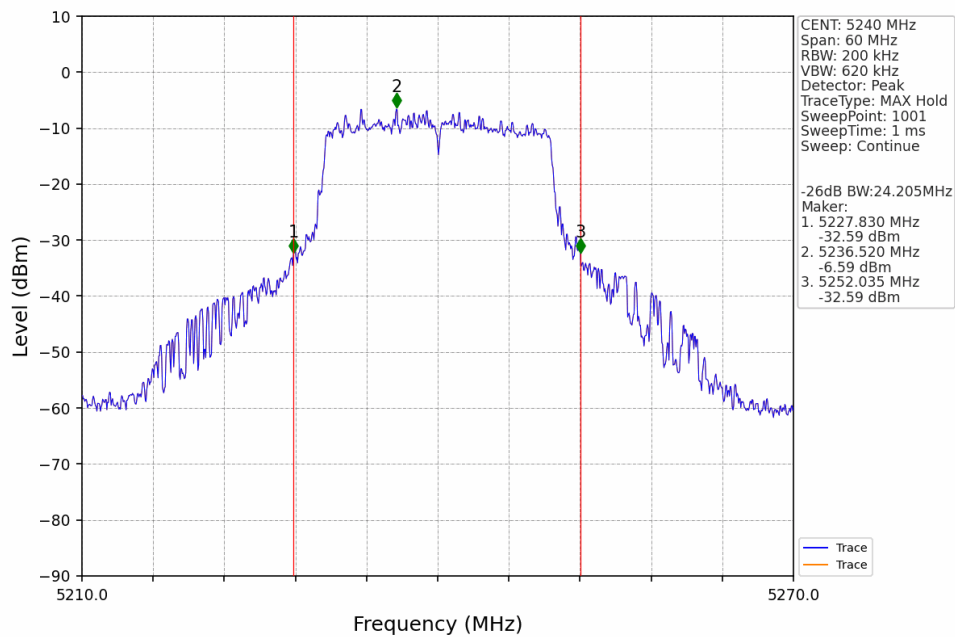
802.11ax(HEW20)\_LCH\_5180MHz\_SU\_ / Ant1\_NTNV



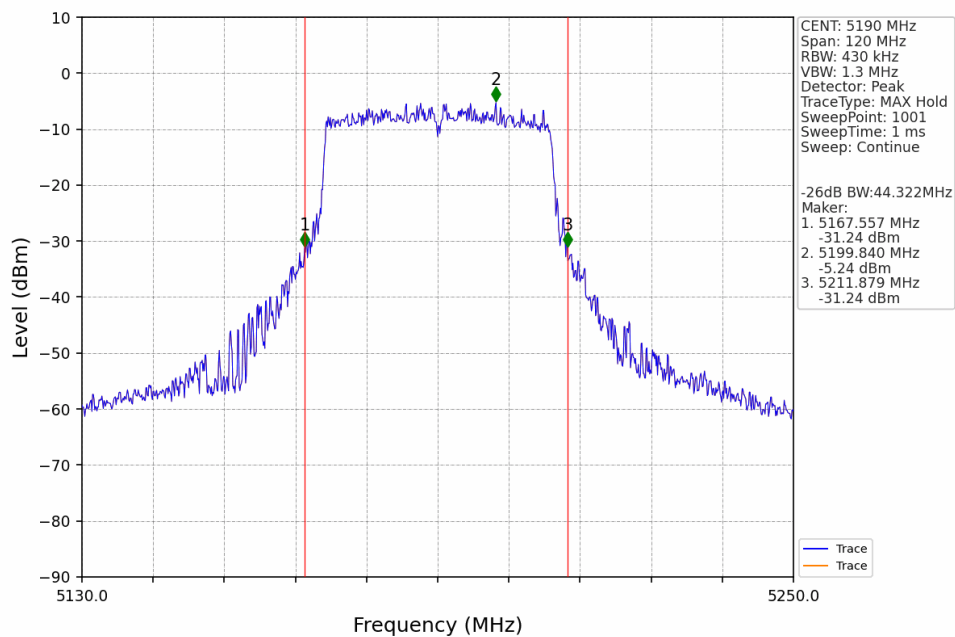
802.11ax(HEW20)\_MCH\_5200MHz\_SU\_ / Ant1\_NTNV



802.11ax(HEW20)\_HCH\_5240MHz\_SU\_ / Ant1\_NTNV

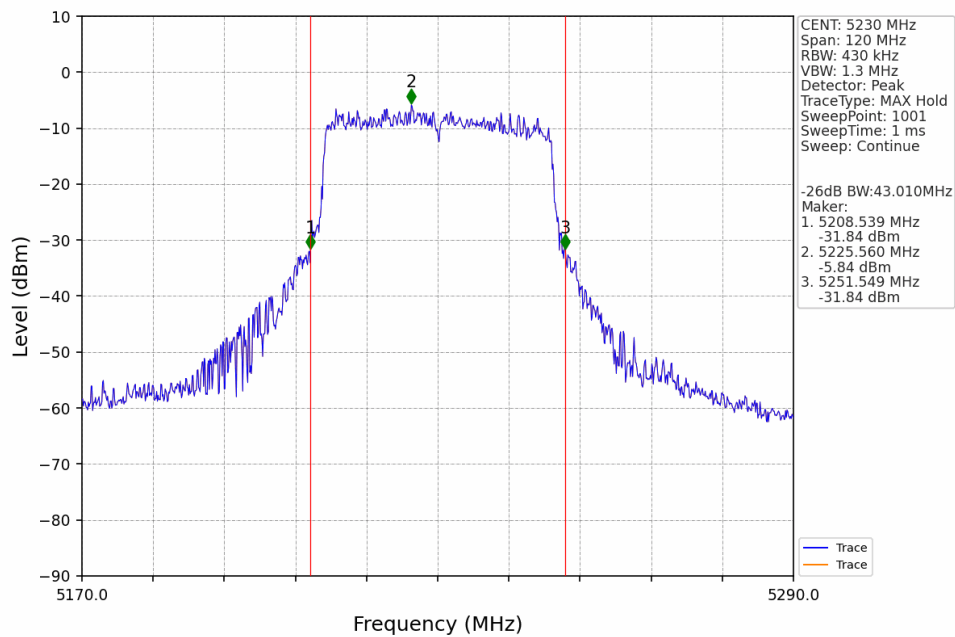


802.11ax(HEW40)\_LCH\_5190MHz\_SU\_ / Ant1\_NTNV

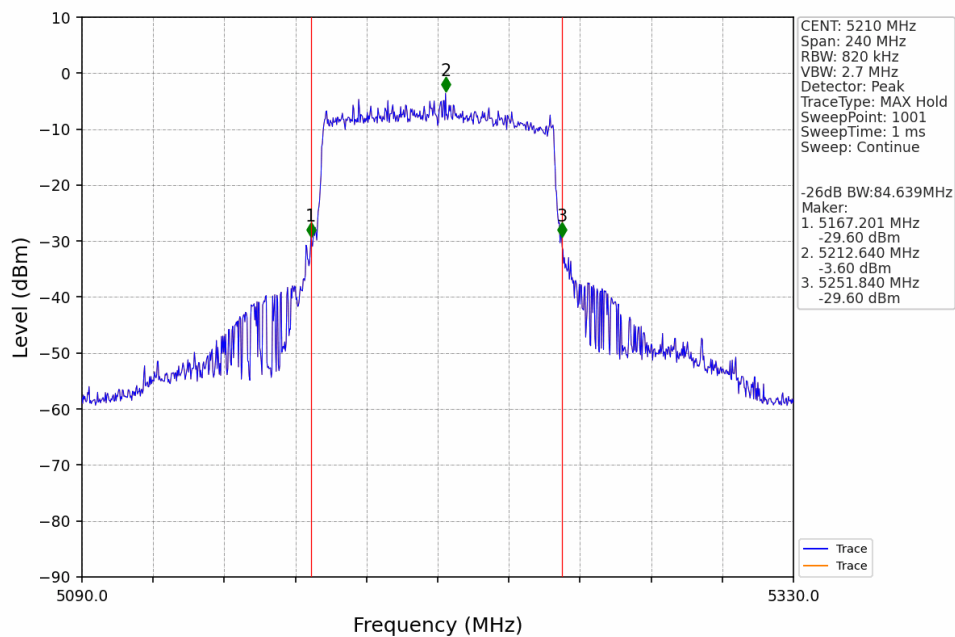




802.11ax(HEW40)\_HCH\_5230MHz\_SU / Ant1\_NTNV



802.11ax(HEW80)\_MCH\_5210MHz\_SU / Ant1\_NTNV



### 3. Maximum Conducted Output Power

#### 3.1 Test Result

##### 3.1.1 Power

| Mode             | TX Type | Frequency (MHz) | RU | RU Pos | Maximum Average Conducted Output Power (dBm) |         | Verdict |
|------------------|---------|-----------------|----|--------|----------------------------------------------|---------|---------|
|                  |         |                 |    |        | ANT1                                         | Limit   |         |
| 802.11a          | SISO    | 5180            | /  | /      | 2.92                                         | <=23.98 | Pass    |
|                  |         | 5200            | /  | /      | 2.27                                         | <=23.98 | Pass    |
|                  |         | 5240            | /  | /      | 3.46                                         | <=23.98 | Pass    |
| 802.11n (HT20)   | SISO    | 5180            | /  | /      | 4.13                                         | <=23.98 | Pass    |
|                  |         | 5200            | /  | /      | 2.83                                         | <=23.98 | Pass    |
|                  |         | 5240            | /  | /      | 2.68                                         | <=23.98 | Pass    |
| 802.11n (HT40)   | SISO    | 5190            | /  | /      | 5.41                                         | <=23.98 | Pass    |
|                  |         | 5230            | /  | /      | 2.54                                         | <=23.98 | Pass    |
| 802.11ac (VHT20) | SISO    | 5180            | /  | /      | 3.51                                         | <=23.98 | Pass    |
|                  |         | 5200            | /  | /      | 3.83                                         | <=23.98 | Pass    |
|                  |         | 5240            | /  | /      | 1.50                                         | <=23.98 | Pass    |
| 802.11ac (VHT40) | SISO    | 5190            | /  | /      | 3.64                                         | <=23.98 | Pass    |
|                  |         | 5230            | /  | /      | 2.99                                         | <=23.98 | Pass    |
| 802.11ac (VHT80) | SISO    | 5210            | /  | /      | 4.08                                         | <=23.98 | Pass    |
| 802.11ax (HEW20) | SISO    | 5180            | SU | /      | 4.38                                         | <=23.98 | Pass    |
|                  |         | 5200            | SU | /      | 3.74                                         | <=23.98 | Pass    |
|                  |         | 5240            | SU | /      | 2.44                                         | <=23.98 | Pass    |
| 802.11ax (HEW40) | SISO    | 5190            | SU | /      | 4.53                                         | <=23.98 | Pass    |
|                  |         | 5230            | SU | /      | 3.85                                         | <=23.98 | Pass    |
| 802.11ax (HEW80) | SISO    | 5210            | SU | /      | 2.56                                         | <=23.98 | Pass    |

Note1: Antenna Gain: Ant1: 2.67dBi;

## 4. Maximum Power Spectral Density

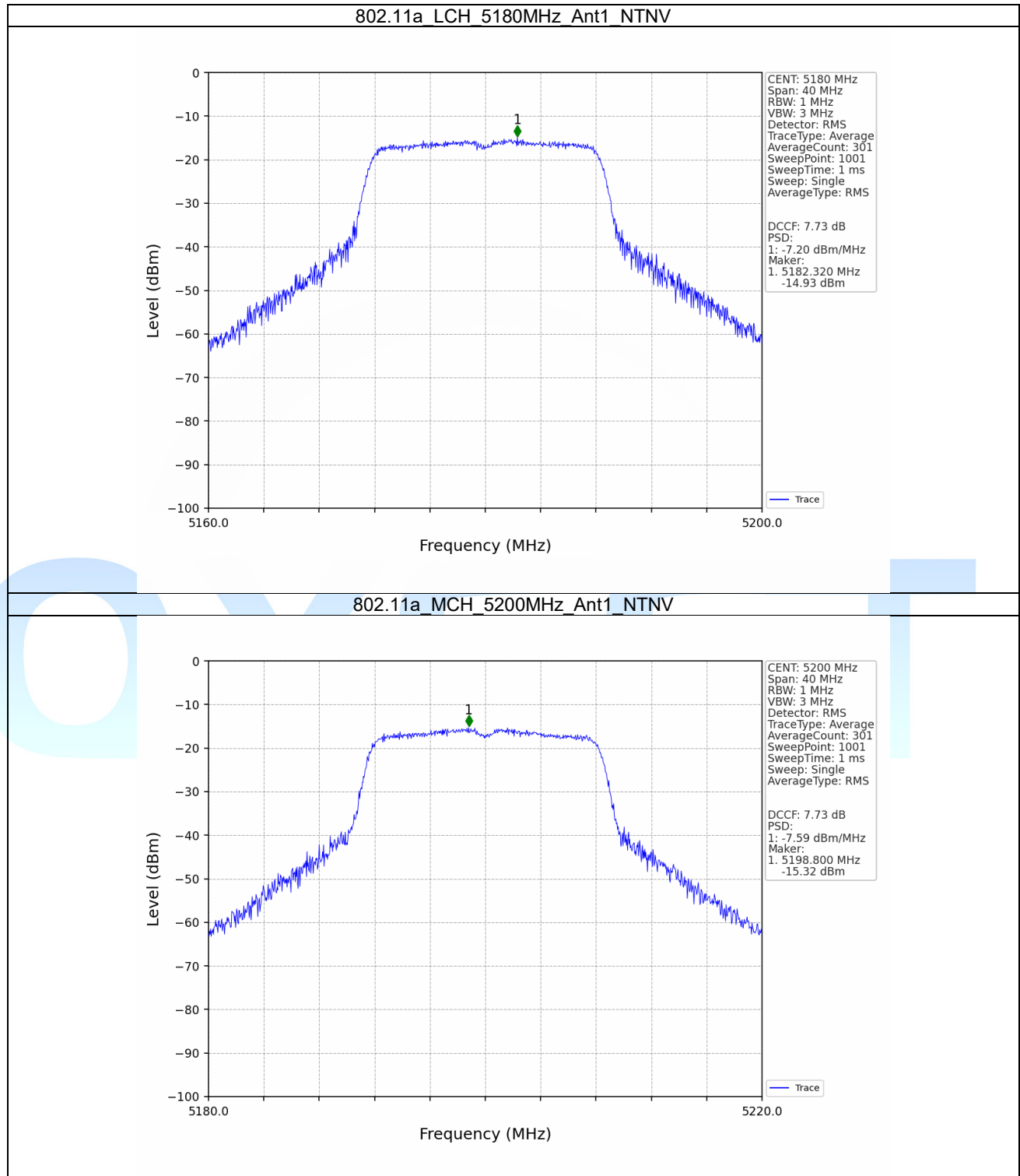
### 4.1 Test Result

#### 4.1.1 PSD

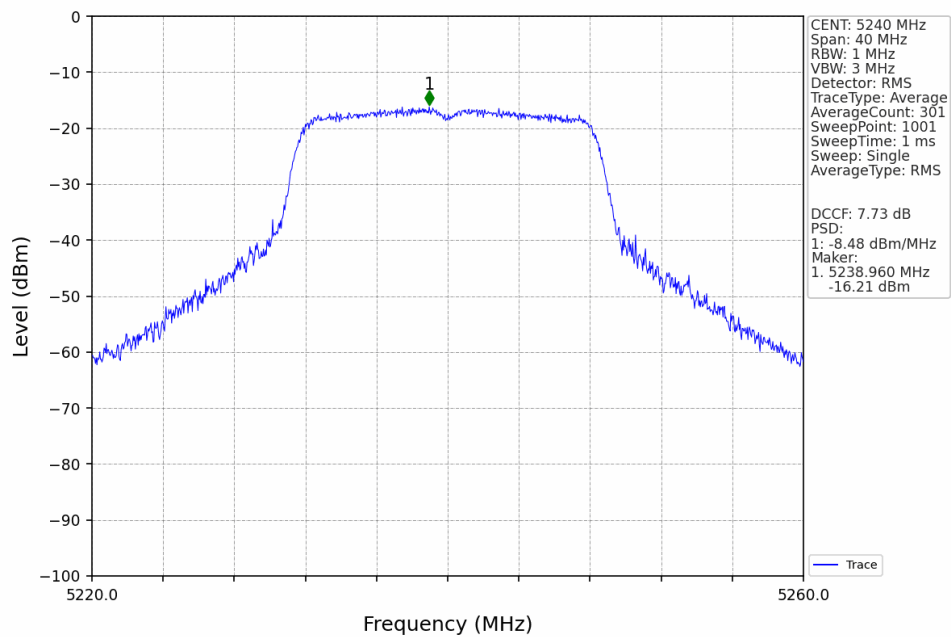
| Mode                                                               | TX Type | Frequency (MHz) | RU | RU Pos | Maximum PSD (dBm/MHz) |       | Verdict |
|--------------------------------------------------------------------|---------|-----------------|----|--------|-----------------------|-------|---------|
|                                                                    |         |                 |    |        | ANT1                  | Limit |         |
| 802.11a                                                            | SISO    | 5180            | /  | /      | -7.20                 | <=11  | Pass    |
|                                                                    |         | 5200            | /  | /      | -7.59                 | <=11  | Pass    |
|                                                                    |         | 5240            | /  | /      | -8.48                 | <=11  | Pass    |
| 802.11n (HT20)                                                     | SISO    | 5180            | /  | /      | -7.46                 | <=11  | Pass    |
|                                                                    |         | 5200            | /  | /      | -7.36                 | <=11  | Pass    |
|                                                                    |         | 5240            | /  | /      | -7.59                 | <=11  | Pass    |
| 802.11n (HT40)                                                     | SISO    | 5190            | /  | /      | -9.06                 | <=11  | Pass    |
|                                                                    |         | 5230            | /  | /      | -10.85                | <=11  | Pass    |
| 802.11ac (VHT20)                                                   | SISO    | 5180            | /  | /      | -7.00                 | <=11  | Pass    |
|                                                                    |         | 5200            | /  | /      | -7.28                 | <=11  | Pass    |
|                                                                    |         | 5240            | /  | /      | -8.59                 | <=11  | Pass    |
| 802.11ac (VHT40)                                                   | SISO    | 5190            | /  | /      | -9.99                 | <=11  | Pass    |
|                                                                    |         | 5230            | /  | /      | -10.79                | <=11  | Pass    |
| 802.11ac (VHT80)                                                   | SISO    | 5210            | /  | /      | -13.95                | <=11  | Pass    |
| 802.11ax (HEW20)                                                   | SISO    | 5180            | SU | /      | -7.26                 | <=11  | Pass    |
|                                                                    |         | 5200            | SU | /      | -6.88                 | <=11  | Pass    |
|                                                                    |         | 5240            | SU | /      | -8.37                 | <=11  | Pass    |
| 802.11ax (HEW40)                                                   | SISO    | 5190            | SU | /      | -9.41                 | <=11  | Pass    |
|                                                                    |         | 5230            | SU | /      | -10.81                | <=11  | Pass    |
| 802.11ax (HEW80)                                                   | SISO    | 5210            | SU | /      | -12.43                | <=11  | Pass    |
| Note1: Antenna Gain: Ant1: 2.67dBi;<br>Note2: result contains DCCF |         |                 |    |        |                       |       |         |

## 4.2 Test Graph

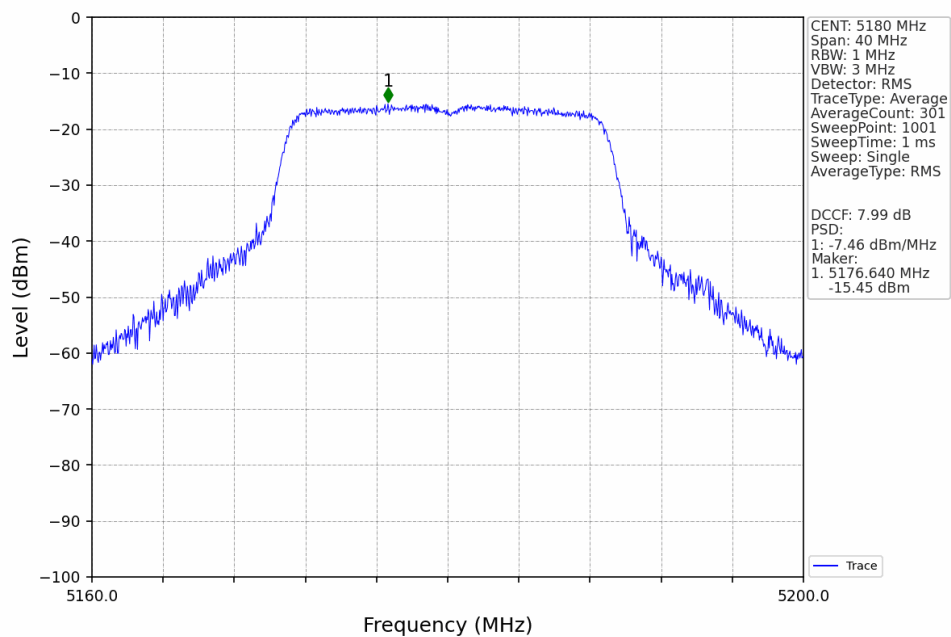
### 4.2.1 PSD



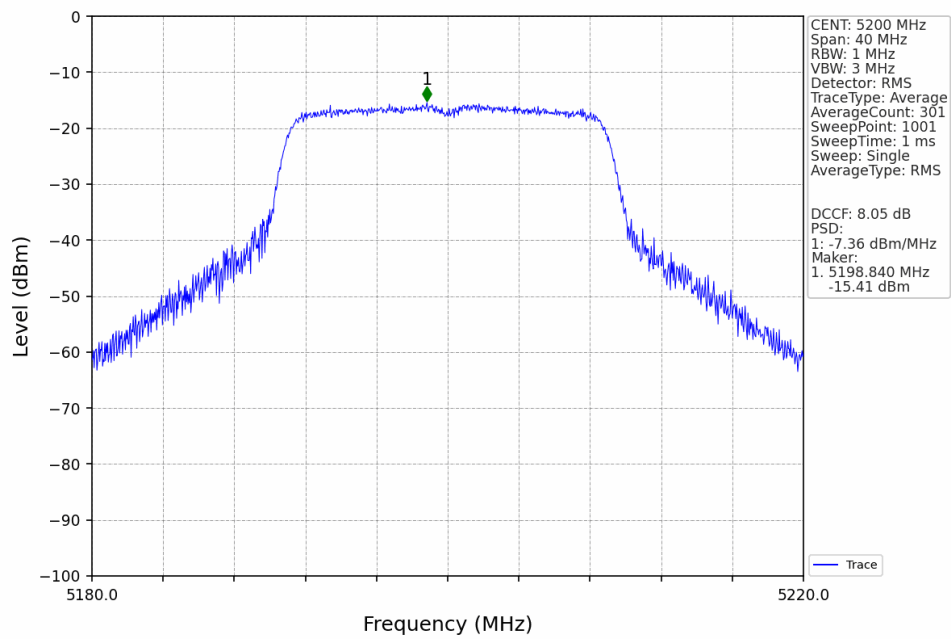
802.11a\_HCH\_5240MHz\_Ant1\_NTNV



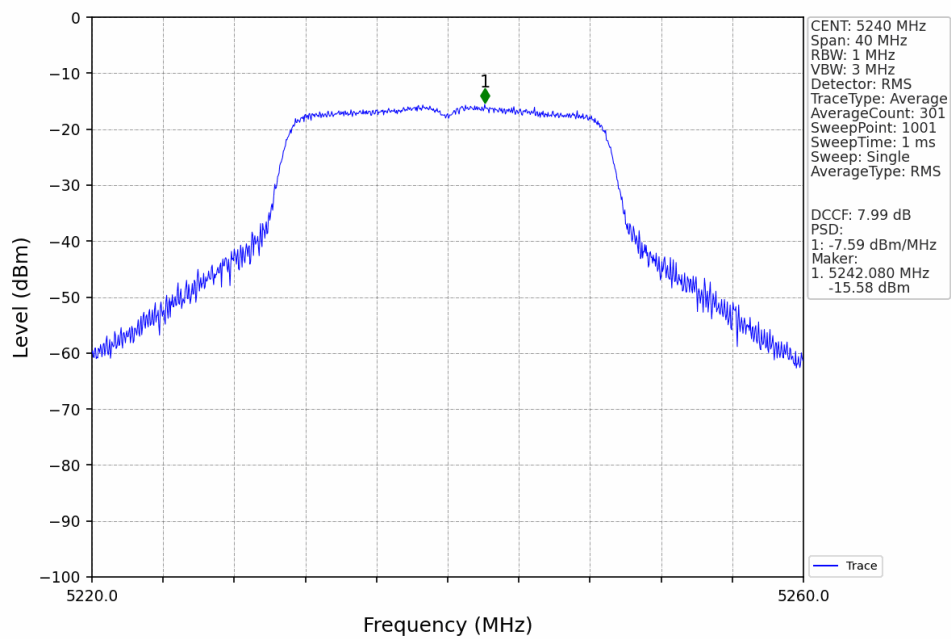
802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



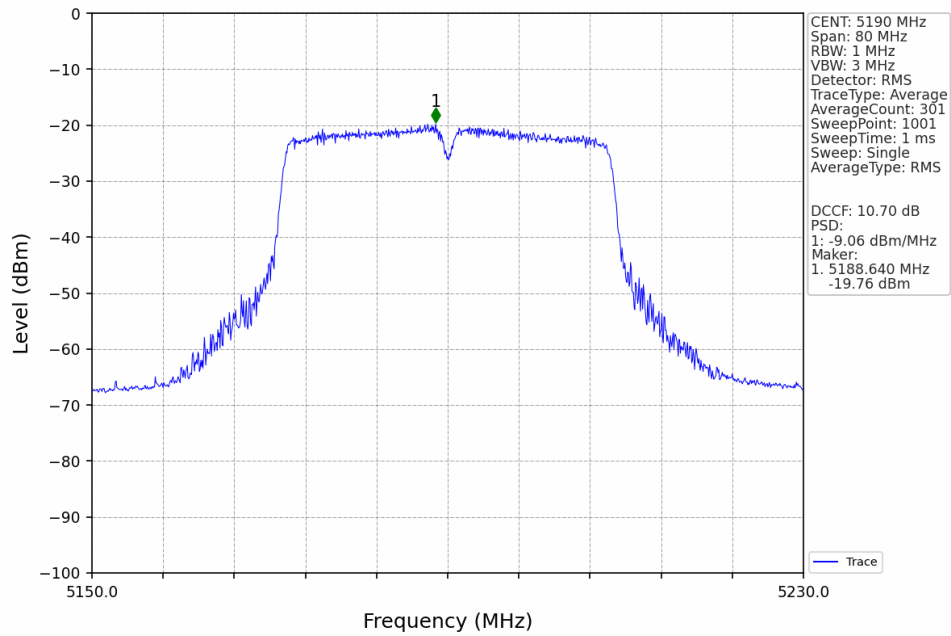
802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



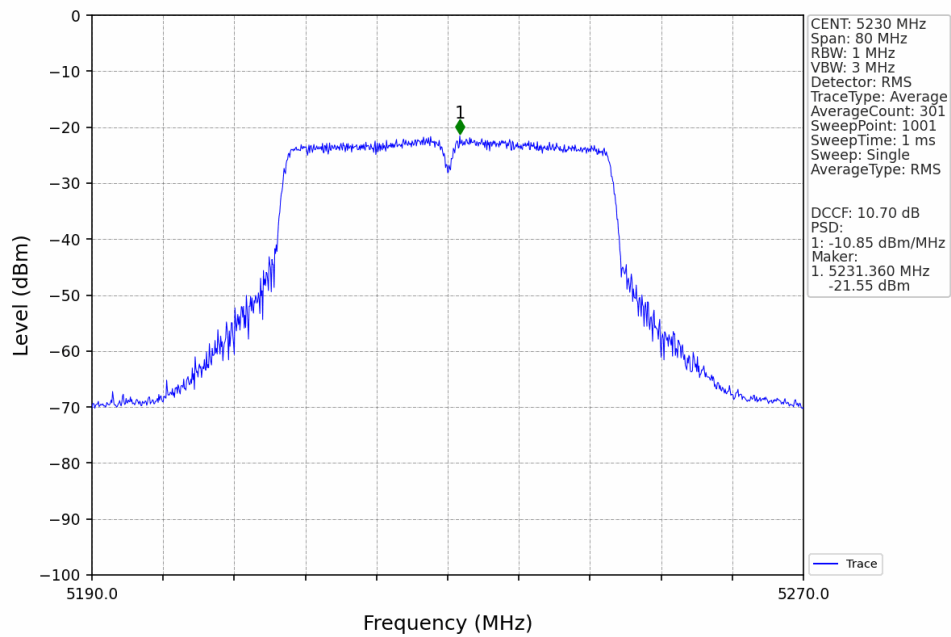
802.11n(HT20)\_HCH\_5240MHz\_Ant1\_NTNV



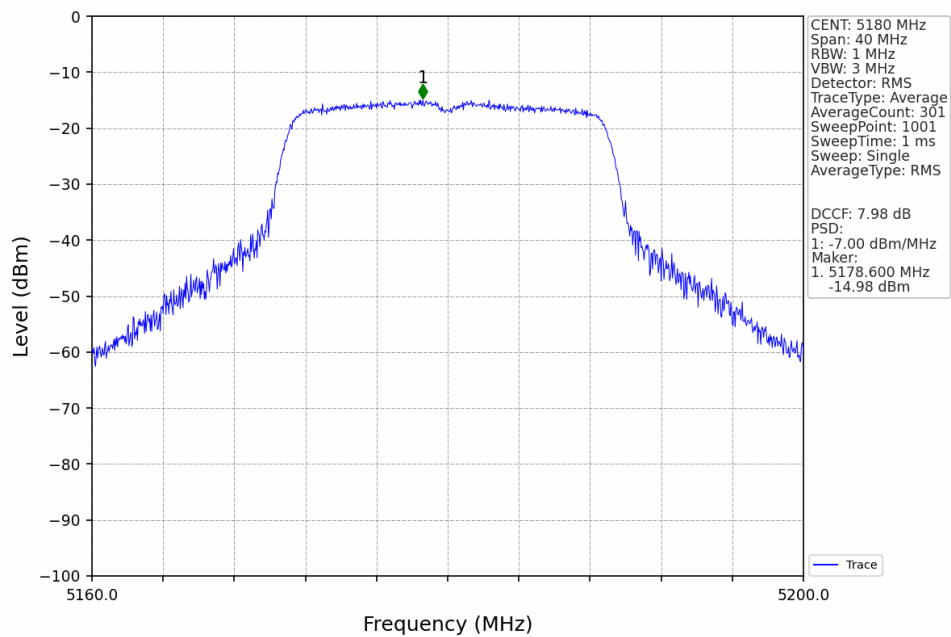
802.11n(HT40) LCH 5190MHz\_Ant1\_NTNV



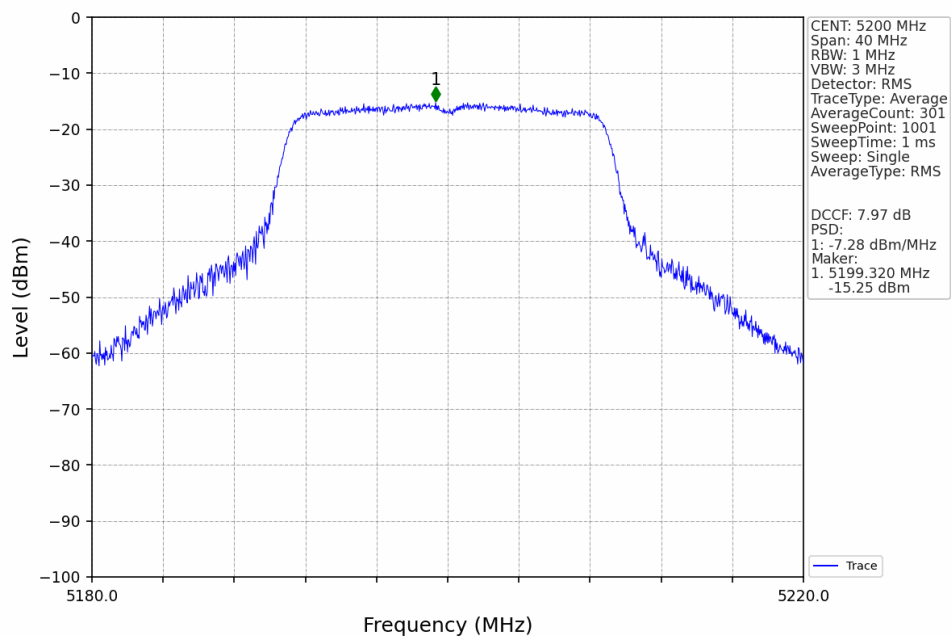
802.11n(HT40) HCH 5230MHz\_Ant1\_NTNV



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

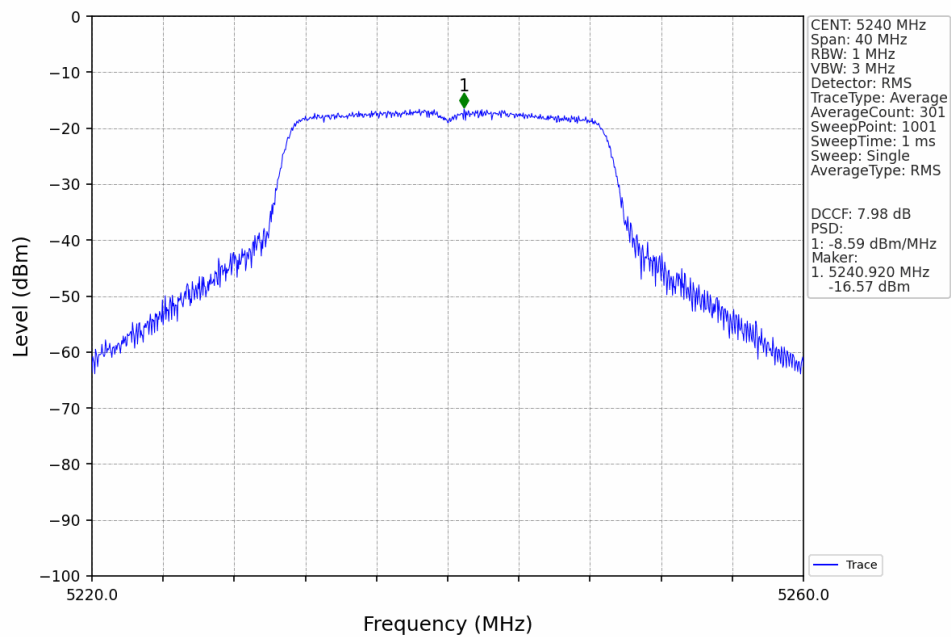


802.11ac(VHT20) MCH\_5200MHz\_Ant1\_NTNV

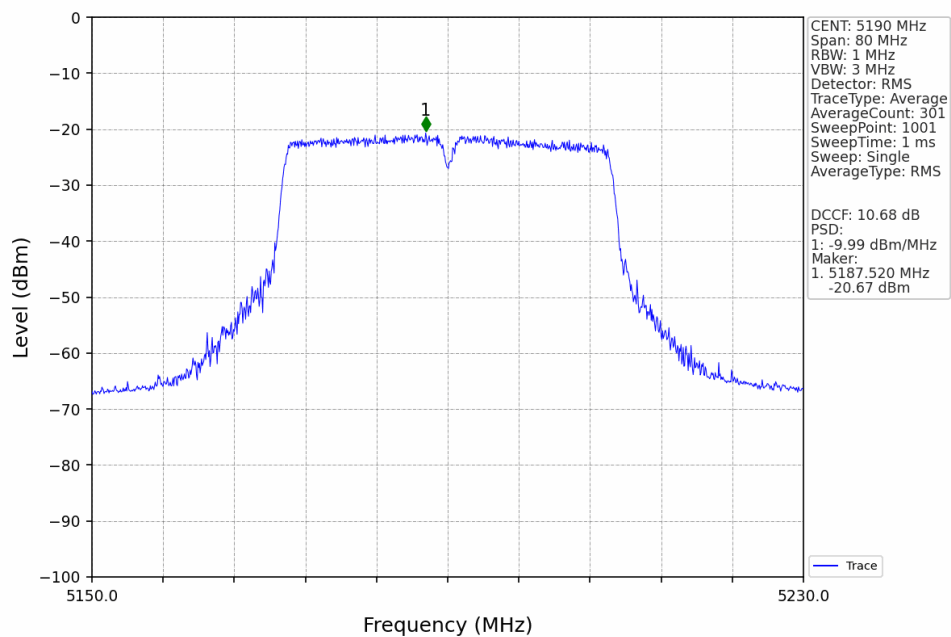




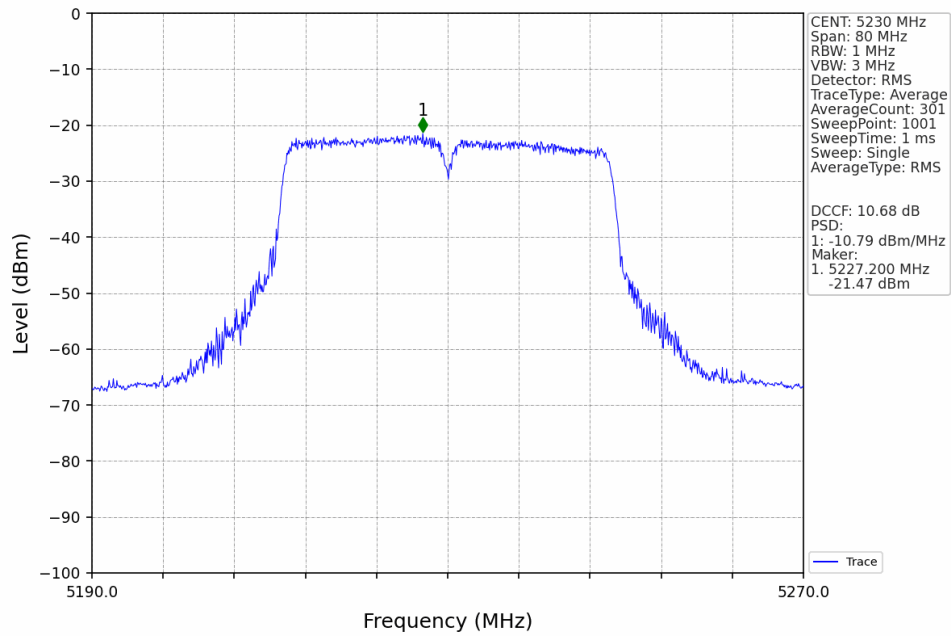
802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV



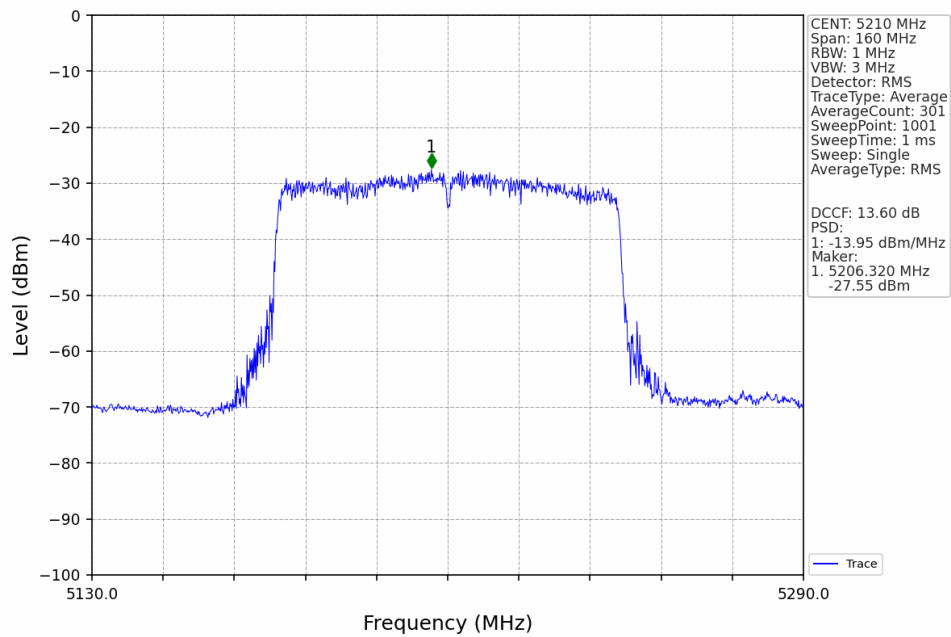
802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV



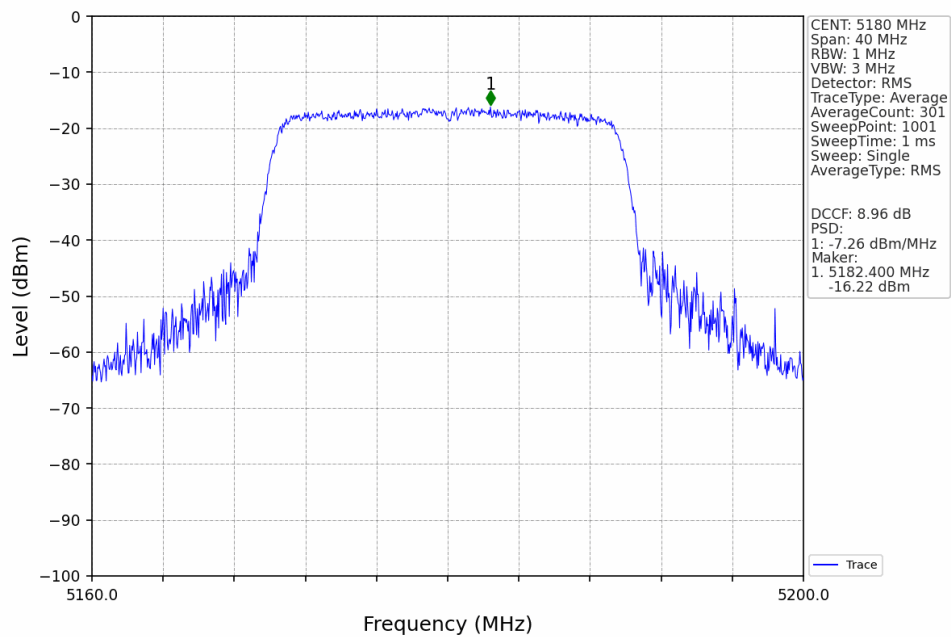
802.11ac(VHT40) HCH 5230MHz\_Ant1\_NTNV



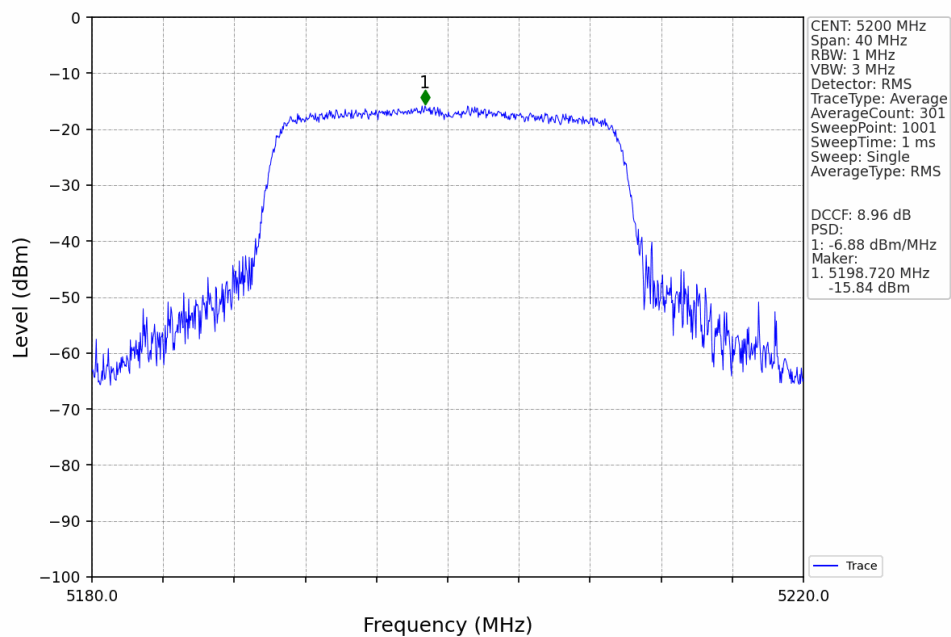
802.11ac(VHT80) MCH 5210MHz\_Ant1\_NTNV



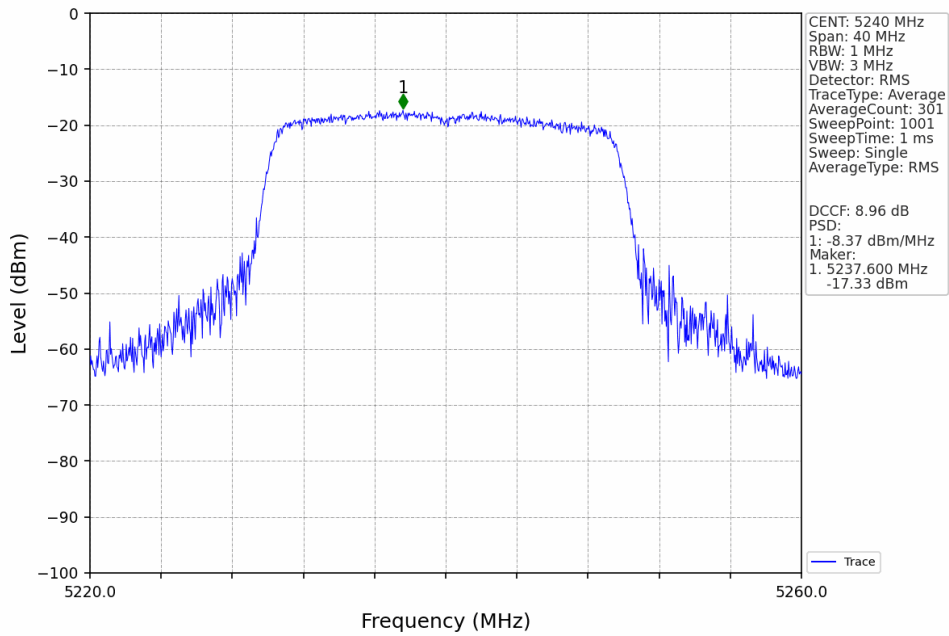
802.11ax(HEW20)\_LCH\_5180MHz\_SU\_ / Ant1\_NTNV



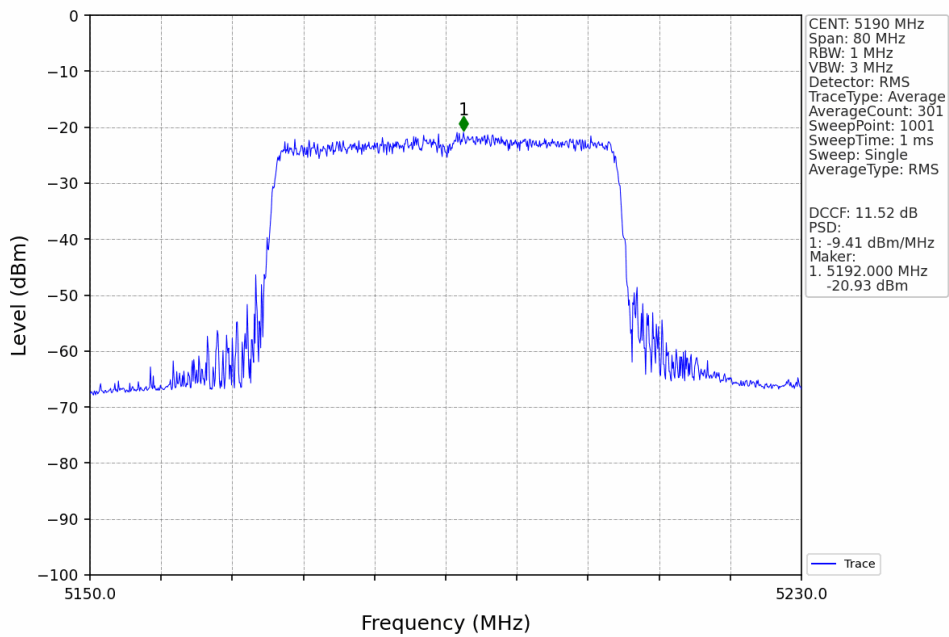
802.11ax(HEW20)\_MCH\_5200MHz\_SU\_ / Ant1\_NTNV



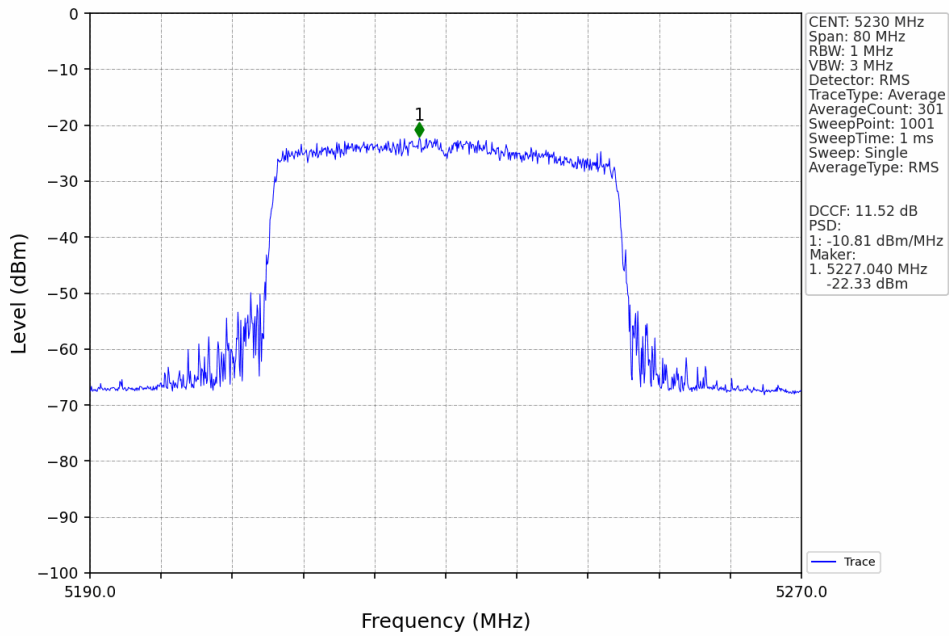
802.11ax(HEW20)\_HCH\_5240MHz\_SU\_ / Ant1\_NTNV



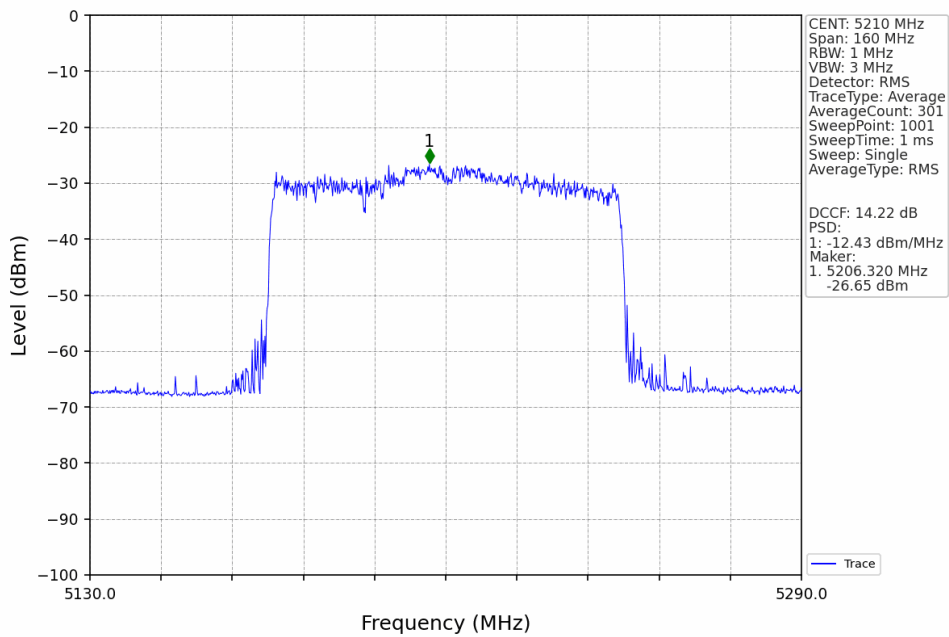
802.11ax(HEW40)\_LCH\_5190MHz\_SU\_ / Ant1\_NTNV



802.11ax(HEW40)\_HCH\_5230MHz\_SU / Ant1\_NTNV



802.11ax(HEW80)\_MCH\_5210MHz\_SU / Ant1\_NTNV



## 5. Unwanted Emissions In Restricted Frequency Bands

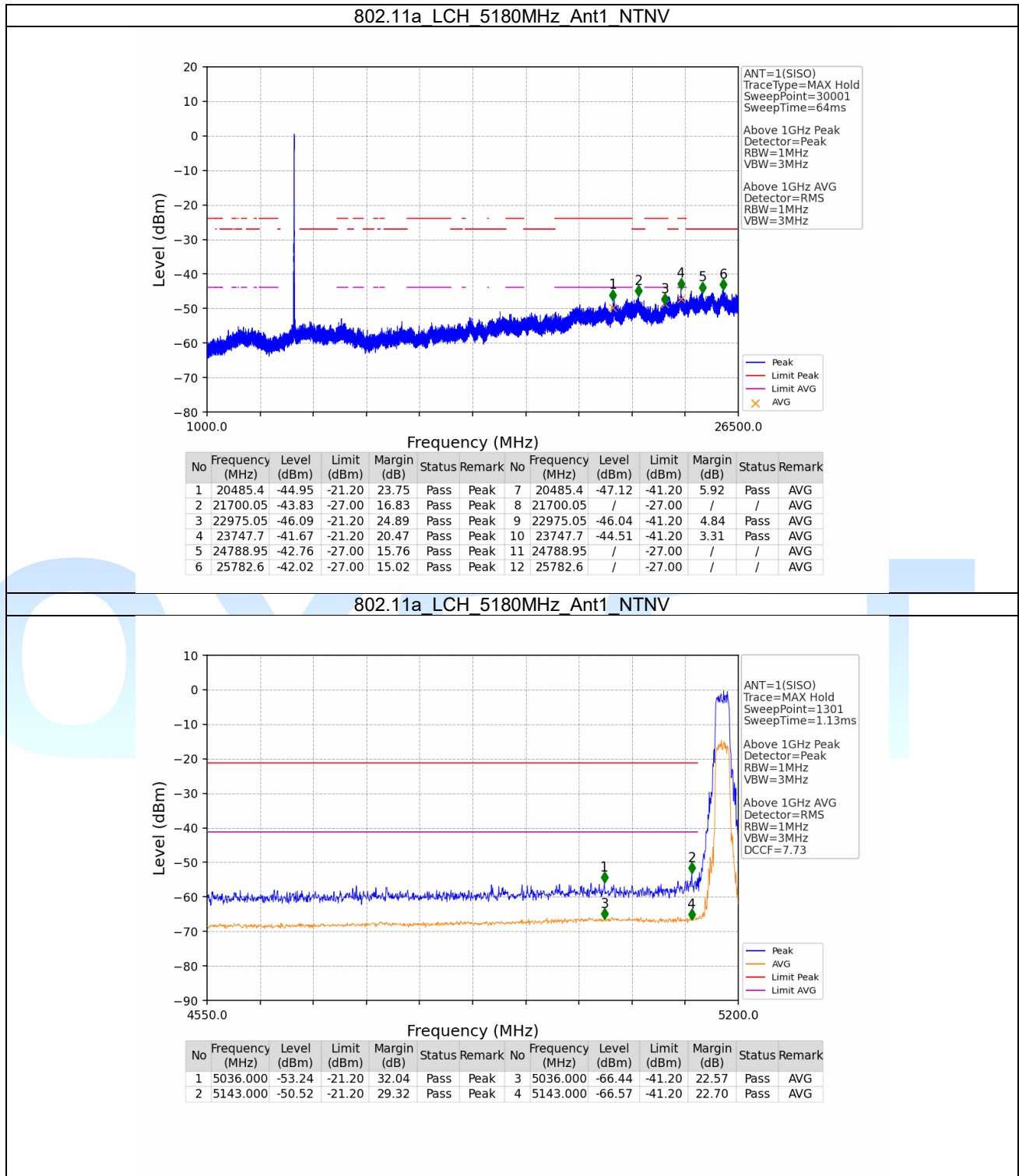
### 5.1 Test Result

#### 5.1.1 RSE

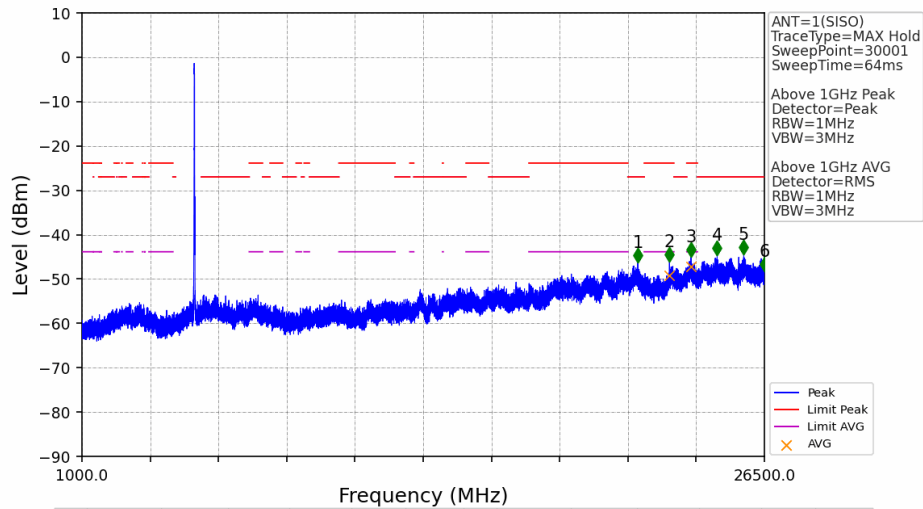
| Mode                                        | TX Type | Frequency (MHz) | RU | RU Pos | ANT | Level of Unwanted Emissions (dBm) |       | Verdict |
|---------------------------------------------|---------|-----------------|----|--------|-----|-----------------------------------|-------|---------|
|                                             |         |                 |    |        |     | Result                            | Limit |         |
| 802.11a                                     | SISO    | 5180            | /  | /      | 1   | Refer To Test Graph               |       | Pass    |
|                                             |         | 5200            | /  | /      | 1   | Refer To Test Graph               |       | Pass    |
|                                             |         | 5240            | /  | /      | 1   | Refer To Test Graph               |       | Pass    |
| 802.11n (HT20)                              | SISO    | 5180            | /  | /      | 1   | Refer To Test Graph               |       | Pass    |
|                                             |         | 5200            | /  | /      | 1   | Refer To Test Graph               |       | Pass    |
|                                             |         | 5240            | /  | /      | 1   | Refer To Test Graph               |       | Pass    |
| 802.11n (HT40)                              | SISO    | 5190            | /  | /      | 1   | Refer To Test Graph               |       | Pass    |
|                                             |         | 5230            | /  | /      | 1   | Refer To Test Graph               |       | Pass    |
| 802.11ac (VHT20)                            | SISO    | 5180            | /  | /      | 1   | Refer To Test Graph               |       | Pass    |
|                                             |         | 5200            | /  | /      | 1   | Refer To Test Graph               |       | Pass    |
|                                             |         | 5240            | /  | /      | 1   | Refer To Test Graph               |       | Pass    |
| 802.11ac (VHT40)                            | SISO    | 5190            | /  | /      | 1   | Refer To Test Graph               |       | Pass    |
|                                             |         | 5230            | /  | /      | 1   | Refer To Test Graph               |       | Pass    |
| 802.11ac (VHT80)                            | SISO    | 5210            | /  | /      | 1   | Refer To Test Graph               |       | Pass    |
| 802.11ax (HEW20)                            | SISO    | 5180            | SU | /      | 1   | Refer To Test Graph               |       | Pass    |
|                                             |         | 5200            | SU | /      | 1   | Refer To Test Graph               |       | Pass    |
|                                             |         | 5240            | SU | /      | 1   | Refer To Test Graph               |       | Pass    |
| 802.11ax (HEW40)                            | SISO    | 5190            | SU | /      | 1   | Refer To Test Graph               |       | Pass    |
|                                             |         | 5230            | SU | /      | 1   | Refer To Test Graph               |       | Pass    |
| 802.11ax (HEW80)                            | SISO    | 5210            | SU | /      | 1   | Refer To Test Graph               |       | Pass    |
| Note1: level contains DCCF and antenna gain |         |                 |    |        |     |                                   |       |         |
| Note2: Margin=Limit- level                  |         |                 |    |        |     |                                   |       |         |

## 5.2 Test Graph

### 5.2.1 RSE

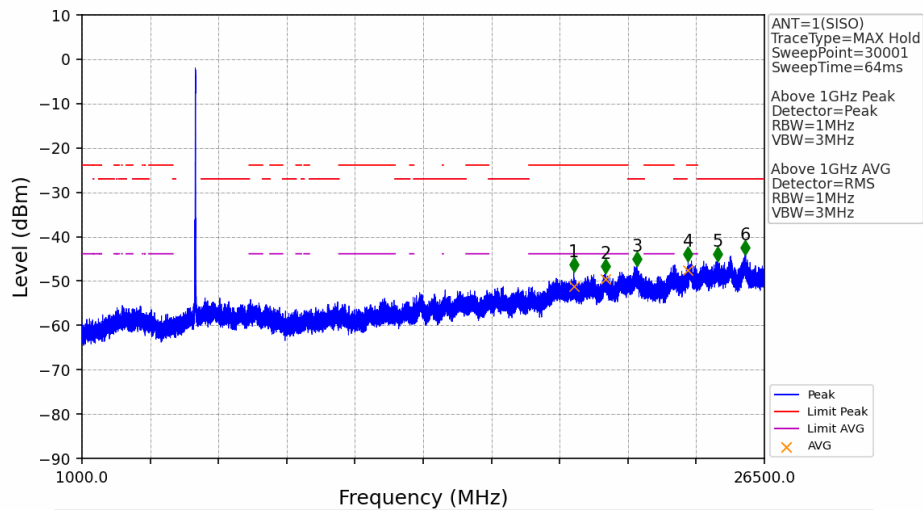


## 802.11a\_MCH\_5200MHz\_Ant1\_NTNV



| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 21769.75        | -43.63      | -27.00      | 16.63       | Pass   | Peak   | 7  | 21769.75        | /           | -27.00      | /           | /      | AVG    |
| 2  | 22952.1         | -43.30      | -21.20      | 22.10       | Pass   | Peak   | 8  | 22952.1         | -46.57      | -41.20      | 5.37        | Pass   | AVG    |
| 3  | 23757.05        | -42.23      | -21.20      | 21.03       | Pass   | Peak   | 9  | 23757.05        | -44.48      | -41.20      | 3.28        | Pass   | AVG    |
| 4  | 24735.4         | -41.87      | -27.00      | 14.87       | Pass   | Peak   | 10 | 24735.4         | /           | -27.00      | /           | /      | AVG    |
| 5  | 25729.9         | -41.68      | -27.00      | 14.68       | Pass   | Peak   | 11 | 25729.9         | /           | -27.00      | /           | /      | AVG    |
| 6  | 26495.75        | -45.58      | -27.00      | 18.58       | Pass   | Peak   | 12 | 26495.75        | /           | -27.00      | /           | /      | AVG    |

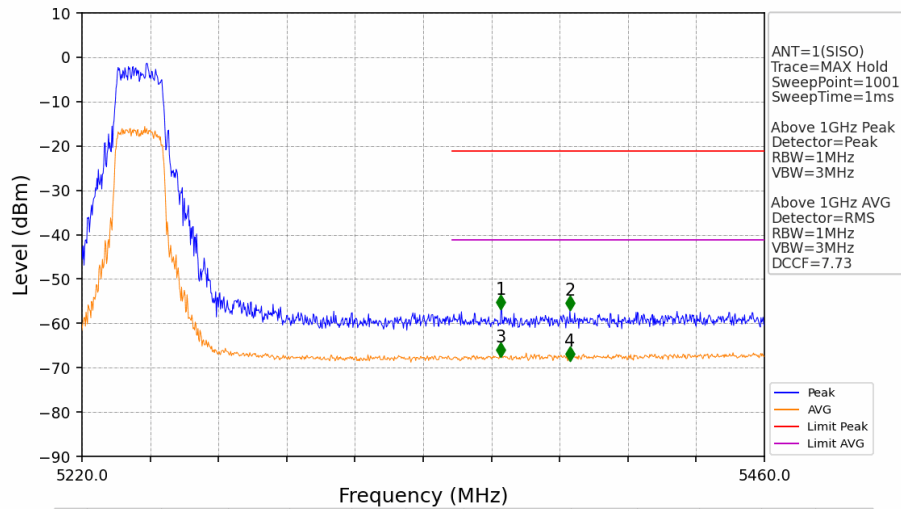
## 802.11a\_HCH\_5240MHz\_Ant1\_NTNV



| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 19377           | -45.16      | -21.20      | 23.96       | Pass   | Peak   | 7  | 19377           | -48.45      | -41.20      | 7.25        | Pass   | AVG    |
| 2  | 20555.95        | -45.64      | -21.20      | 24.44       | Pass   | Peak   | 8  | 20555.95        | -46.86      | -41.20      | 5.66        | Pass   | AVG    |
| 3  | 21733.2         | -43.84      | -27.00      | 16.84       | Pass   | Peak   | 9  | 21733.2         | /           | -27.00      | /           | /      | AVG    |
| 4  | 23649.95        | -42.77      | -21.20      | 21.57       | Pass   | Peak   | 10 | 23649.95        | -44.92      | -41.20      | 3.72        | Pass   | AVG    |
| 5  | 24740.5         | -42.91      | -27.00      | 15.91       | Pass   | Peak   | 11 | 24740.5         | /           | -27.00      | /           | /      | AVG    |
| 6  | 25777.5         | -41.42      | -27.00      | 14.42       | Pass   | Peak   | 12 | 25777.5         | /           | -27.00      | /           | /      | AVG    |

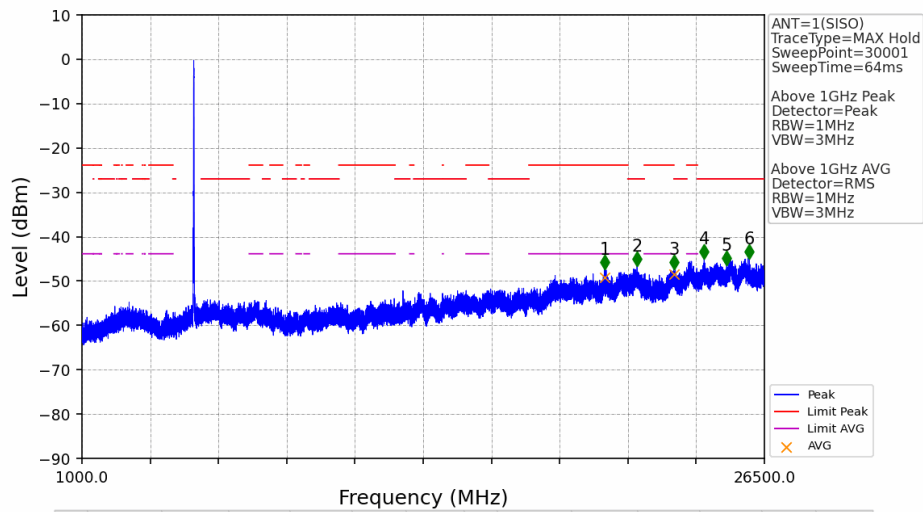


## 802.11a\_HCH\_5240MHz\_Ant1\_NTNV



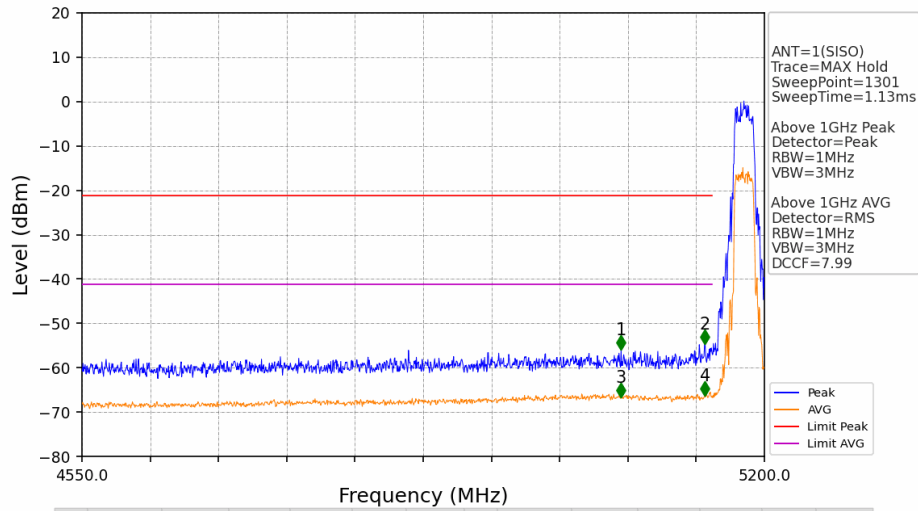
| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 5367.360        | -54.10      | -21.20      | 32.90       | Pass   | Peak   | 3  | 5367.360        | -67.60      | -41.20      | 23.73       | Pass   | AVG    |
| 2  | 5391.600        | -54.34      | -21.20      | 33.13       | Pass   | Peak   | 4  | 5391.600        | -68.38      | -41.20      | 24.50       | Pass   | AVG    |

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



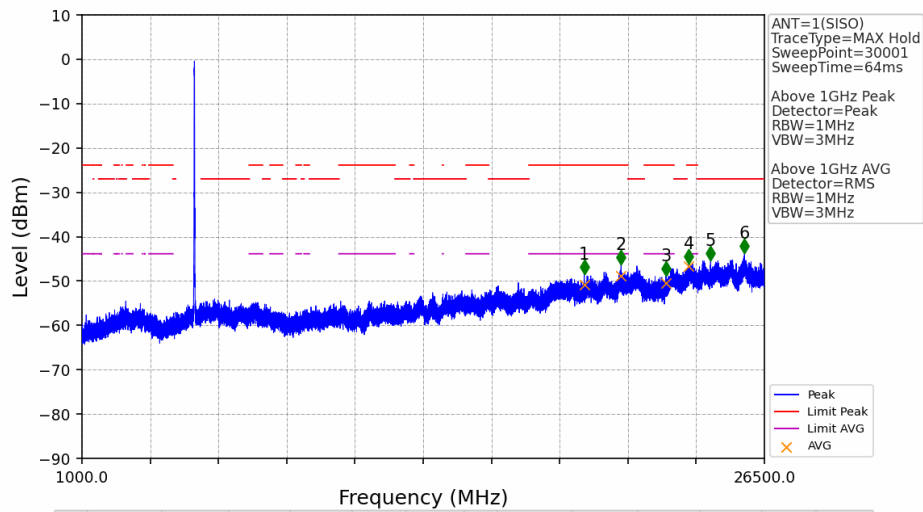
| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 20530.45        | -44.68      | -21.20      | 23.48       | Pass   | Peak   | 7  | 20530.45        | -46.50      | -41.20      | 5.30        | Pass   | AVG    |
| 2  | 21741.7         | -43.91      | -27.00      | 16.91       | Pass   | Peak   | 8  | 21741.7         | /           | -27.00      | /           | /      | AVG    |
| 3  | 23115.3         | -44.57      | -21.20      | 23.37       | Pass   | Peak   | 9  | 23115.3         | -45.76      | -41.20      | 4.56        | Pass   | AVG    |
| 4  | 24249.2         | -42.35      | -27.00      | 15.35       | Pass   | Peak   | 10 | 24249.2         | /           | -27.00      | /           | /      | AVG    |
| 5  | 25091.55        | -43.69      | -27.00      | 16.69       | Pass   | Peak   | 11 | 25091.55        | /           | -27.00      | /           | /      | AVG    |
| 6  | 25938.15        | -42.27      | -27.00      | 15.27       | Pass   | Peak   | 12 | 25938.15        | /           | -27.00      | /           | /      | AVG    |

## 802.11n(HT20) LCH\_5180MHz\_Ant1\_NTNV



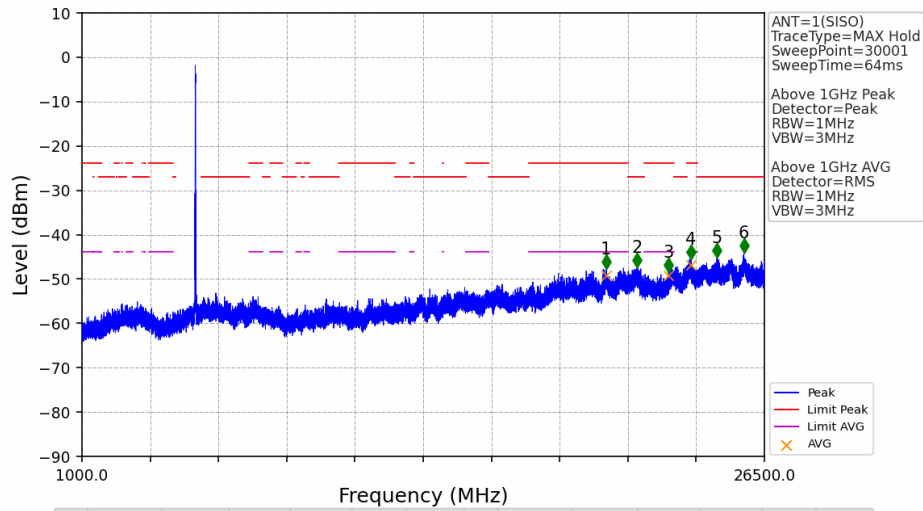
| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 5063.500        | -53.24      | -21.20      | 32.05       | Pass   | Peak   | 3  | 5063.500        | -66.72      | -41.20      | 22.85       | Pass   | AVG    |
| 2  | 5143.500        | -51.93      | -21.20      | 30.73       | Pass   | Peak   | 4  | 5143.500        | -66.25      | -41.20      | 22.38       | Pass   | AVG    |

## 802.11n(HT20) MCH\_5200MHz\_Ant1\_NTNV



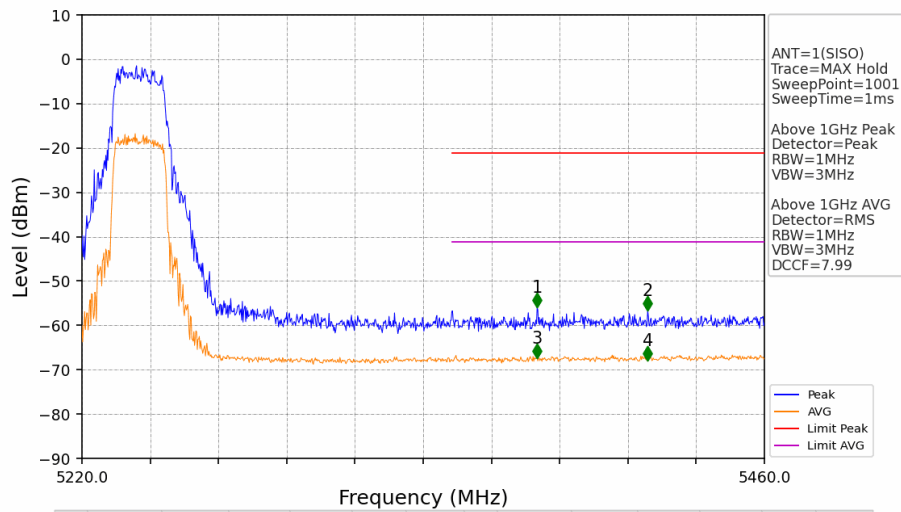
| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 19768.85        | -45.71      | -21.20      | 24.51       | Pass   | Peak   | 7  | 19768.85        | -48.22      | -41.20      | 7.02        | Pass   | AVG    |
| 2  | 21145           | -43.64      | -21.20      | 22.44       | Pass   | Peak   | 8  | 21145           | -46.08      | -41.20      | 4.88        | Pass   | AVG    |
| 3  | 22822.9         | -46.15      | -21.20      | 24.95       | Pass   | Peak   | 9  | 22822.9         | -47.79      | -41.20      | 6.59        | Pass   | AVG    |
| 4  | 23673.75        | -43.44      | -21.20      | 22.24       | Pass   | Peak   | 10 | 23673.75        | -44.00      | -41.20      | 2.80        | Pass   | AVG    |
| 5  | 24489.75        | -42.65      | -27.00      | 15.65       | Pass   | Peak   | 11 | 24489.75        | /           | -27.00      | /           | /      | AVG    |
| 6  | 25757.1         | -41.01      | -27.00      | 14.01       | Pass   | Peak   | 12 | 25757.1         | /           | -27.00      | /           | /      | AVG    |

## 802.11n(HT20) HCH 5240MHz\_Ant1\_NTNV



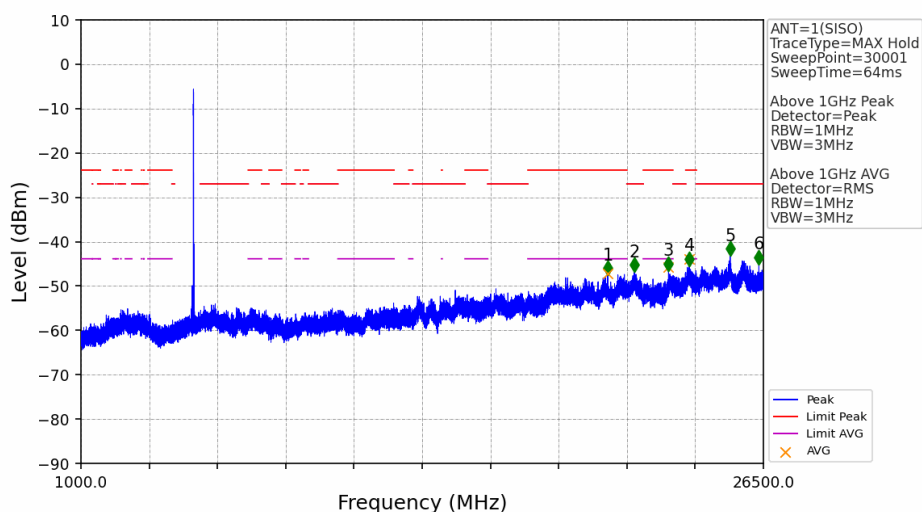
| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 20582.3         | -44.94      | -21.20      | 23.74       | Pass   | Peak   | 7  | 20582.3         | -46.55      | -41.20      | 5.36        | Pass   | AVG    |
| 2  | 21727.25        | -44.65      | -27.00      | 17.64       | Pass   | Peak   | 8  | 21727.25        | /           | -27.00      | /           | /      | AVG    |
| 3  | 22922.35        | -45.67      | -21.20      | 24.47       | Pass   | Peak   | 9  | 22922.35        | -46.47      | -41.20      | 5.27        | Pass   | AVG    |
| 4  | 23759.6         | -42.84      | -21.20      | 21.64       | Pass   | Peak   | 10 | 23759.6         | -44.10      | -41.20      | 2.90        | Pass   | AVG    |
| 5  | 24724.35        | -42.54      | -27.00      | 15.54       | Pass   | Peak   | 11 | 24724.35        | /           | -27.00      | /           | /      | AVG    |
| 6  | 25733.3         | -41.37      | -27.00      | 14.37       | Pass   | Peak   | 12 | 25733.3         | /           | -27.00      | /           | /      | AVG    |

## 802.11n(HT20) HCH 5240MHz\_Ant1\_NTNV



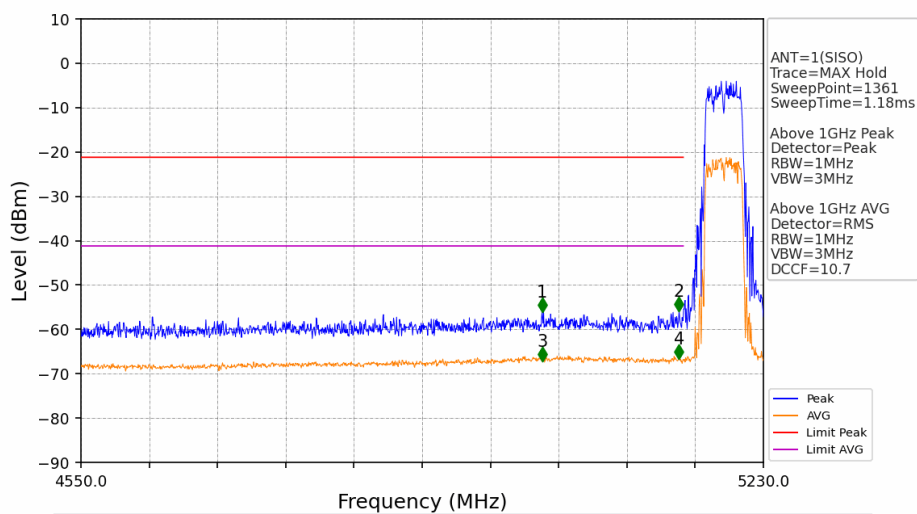
| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 5380.080        | -53.24      | -21.20      | 32.04       | Pass   | Peak   | 3  | 5380.080        | -67.34      | -41.20      | 23.47       | Pass   | AVG    |
| 2  | 5418.960        | -53.93      | -21.20      | 32.73       | Pass   | Peak   | 4  | 5418.960        | -67.91      | -41.20      | 24.04       | Pass   | AVG    |

## 802.11n(HT40) LCH 5190MHz\_Ant1\_NTNV



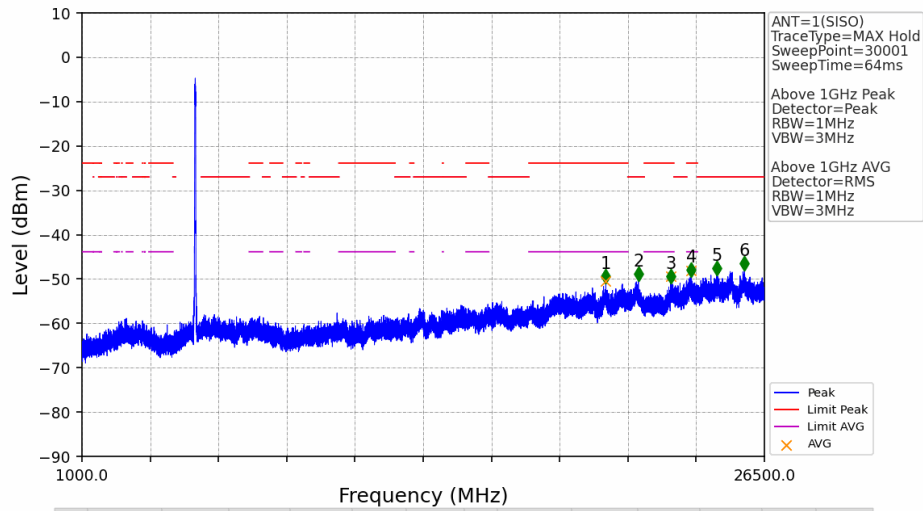
| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 20680.9         | -44.75      | -21.20      | 23.55       | Pass   | Peak   | 7  | 20680.9         | -44.49      | -41.20      | 3.29        | Pass   | AVG    |
| 2  | 21677.1         | -44.12      | -27.00      | 17.12       | Pass   | Peak   | 8  | 21677.1         | /           | -27.00      | /           | /      | AVG    |
| 3  | 22955.5         | -43.83      | -21.20      | 22.63       | Pass   | Peak   | 9  | 22955.5         | -42.99      | -41.20      | 1.79        | Pass   | AVG    |
| 4  | 23736.65        | -42.74      | -21.20      | 21.54       | Pass   | Peak   | 10 | 23736.65        | -41.28      | -41.20      | 0.08        | Pass   | AVG    |
| 5  | 25259           | -40.52      | -27.00      | 13.52       | Pass   | Peak   | 11 | 25259           | /           | -27.00      | /           | /      | AVG    |
| 6  | 26331.7         | -42.38      | -27.00      | 15.38       | Pass   | Peak   | 12 | 26331.7         | /           | -27.00      | /           | /      | AVG    |

## 802.11n(HT40) LCH 5190MHz\_Ant1\_NTNV



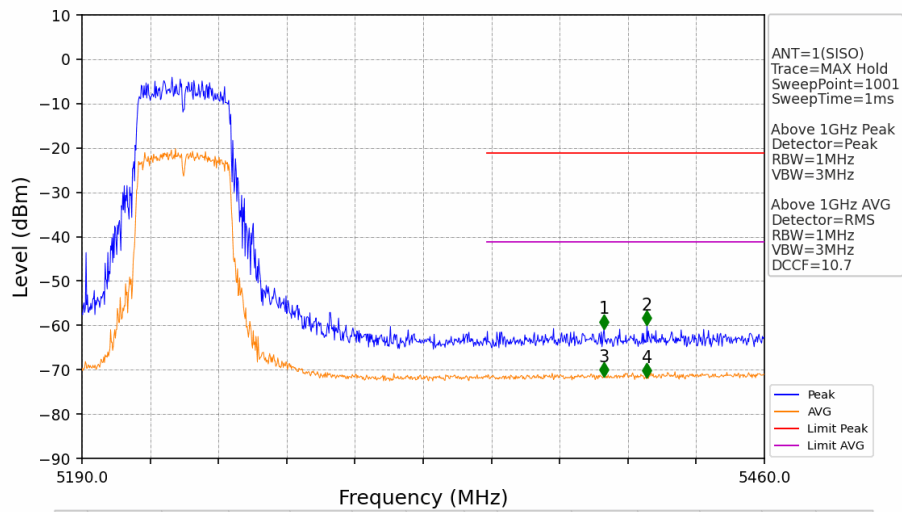
| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 5009.500        | -53.46      | -21.20      | 32.26       | Pass   | Peak   | 3  | 5009.500        | -67.19      | -41.20      | 23.32       | Pass   | AVG    |
| 2  | 5146.000        | -53.15      | -21.20      | 31.95       | Pass   | Peak   | 4  | 5146.000        | -66.71      | -41.20      | 22.84       | Pass   | AVG    |

## 802.11n(HT40) HCH 5230MHz\_Ant1\_NTNV



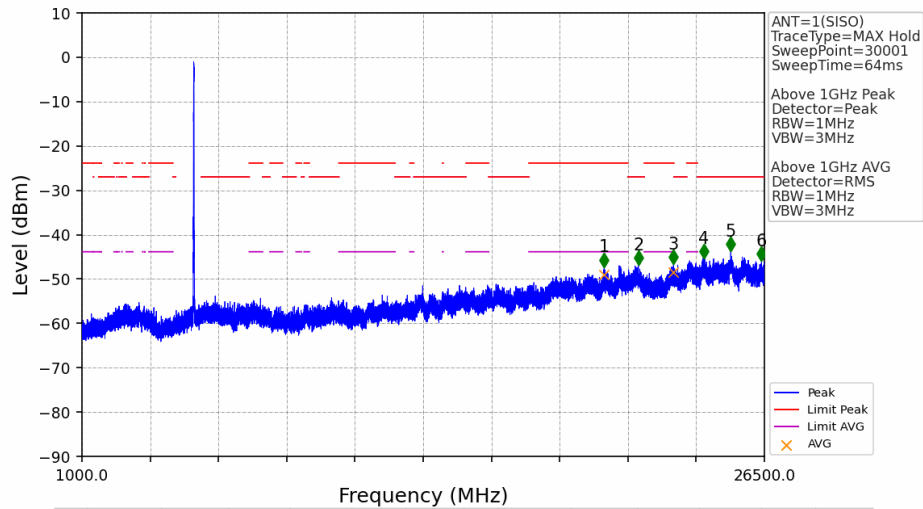
| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 20575.5         | -48.28      | -21.20      | 27.08       | Pass   | Peak   | 7  | 20575.5         | -47.79      | -41.20      | 6.59        | Pass   | AVG    |
| 2  | 21790.15        | -47.79      | -27.00      | 20.79       | Pass   | Peak   | 8  | 21790.15        | /           | -27.00      | /           | /      | AVG    |
| 3  | 22998.85        | -48.35      | -21.20      | 27.15       | Pass   | Peak   | 9  | 22998.85        | -46.76      | -41.20      | 5.56        | Pass   | AVG    |
| 4  | 23770.65        | -46.78      | -21.20      | 25.58       | Pass   | Peak   | 10 | 23770.65        | -45.38      | -41.20      | 4.18        | Pass   | AVG    |
| 5  | 24723.5         | -46.48      | -27.00      | 19.48       | Pass   | Peak   | 11 | 24723.5         | /           | -27.00      | /           | /      | AVG    |
| 6  | 25755.4         | -45.38      | -27.00      | 18.38       | Pass   | Peak   | 12 | 25755.4         | /           | -27.00      | /           | /      | AVG    |

## 802.11n(HT40) HCH 5230MHz\_Ant1\_NTNV



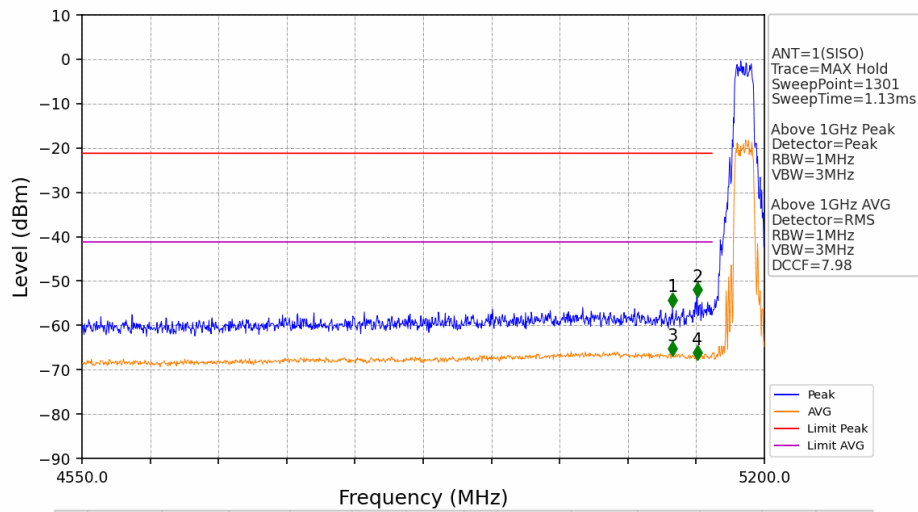
| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 5396.550        | -58.04      | -21.20      | 36.84       | Pass   | Peak   | 3  | 5396.550        | -71.48      | -41.20      | 27.61       | Pass   | AVG    |
| 2  | 5413.560        | -57.30      | -21.20      | 36.10       | Pass   | Peak   | 4  | 5413.560        | -71.75      | -41.20      | 27.88       | Pass   | AVG    |

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



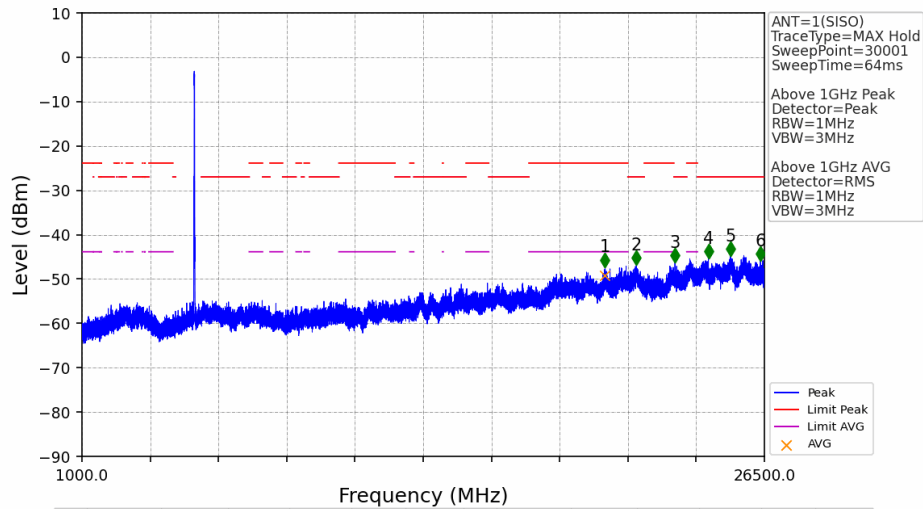
| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 20514.3         | -44.56      | -21.20      | 23.36       | Pass   | Peak   | 7  | 20514.3         | -46.40      | -41.20      | 5.20        | Pass   | AVG    |
| 2  | 21789.3         | -44.07      | -27.00      | 17.07       | Pass   | Peak   | 8  | 21789.3         | /           | -27.00      | /           | /      | AVG    |
| 3  | 23105.1         | -43.99      | -21.20      | 22.79       | Pass   | Peak   | 9  | 23105.1         | -45.78      | -41.20      | 4.58        | Pass   | AVG    |
| 4  | 24242.4         | -42.59      | -27.00      | 15.59       | Pass   | Peak   | 10 | 24242.4         | /           | -27.00      | /           | /      | AVG    |
| 5  | 25242.85        | -41.07      | -27.00      | 14.07       | Pass   | Peak   | 11 | 25242.85        | /           | -27.00      | /           | /      | AVG    |
| 6  | 26392.05        | -43.24      | -27.00      | 16.24       | Pass   | Peak   | 12 | 26392.05        | /           | -27.00      | /           | /      | AVG    |

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



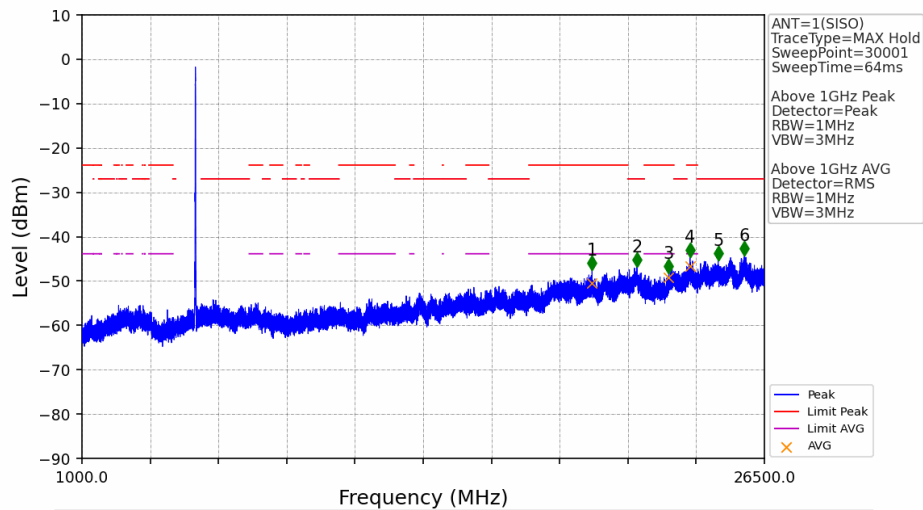
| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 5112.500        | -53.12      | -21.20      | 31.92       | Pass   | Peak   | 3  | 5112.500        | -66.89      | -41.20      | 23.02       | Pass   | AVG    |
| 2  | 5136.000        | -50.91      | -21.20      | 29.71       | Pass   | Peak   | 4  | 5136.000        | -67.71      | -41.20      | 23.84       | Pass   | AVG    |

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



| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 20546.6         | -44.56      | -21.20      | 23.36       | Pass   | Peak   | 7  | 20546.6         | -46.58      | -41.20      | 5.38        | Pass   | AVG    |
| 2  | 21719.6         | -44.13      | -27.00      | 17.13       | Pass   | Peak   | 8  | 21719.6         | /           | -27.00      | /           | /      | AVG    |
| 3  | 23158.65        | -43.57      | -27.00      | 16.57       | Pass   | Peak   | 9  | 23158.65        | /           | -27.00      | /           | /      | AVG    |
| 4  | 24406.45        | -42.61      | -27.00      | 15.61       | Pass   | Peak   | 10 | 24406.45        | /           | -27.00      | /           | /      | AVG    |
| 5  | 25232.65        | -42.02      | -27.00      | 15.02       | Pass   | Peak   | 11 | 25232.65        | /           | -27.00      | /           | /      | AVG    |
| 6  | 26352.1         | -43.15      | -27.00      | 16.14       | Pass   | Peak   | 12 | 26352.1         | /           | -27.00      | /           | /      | AVG    |

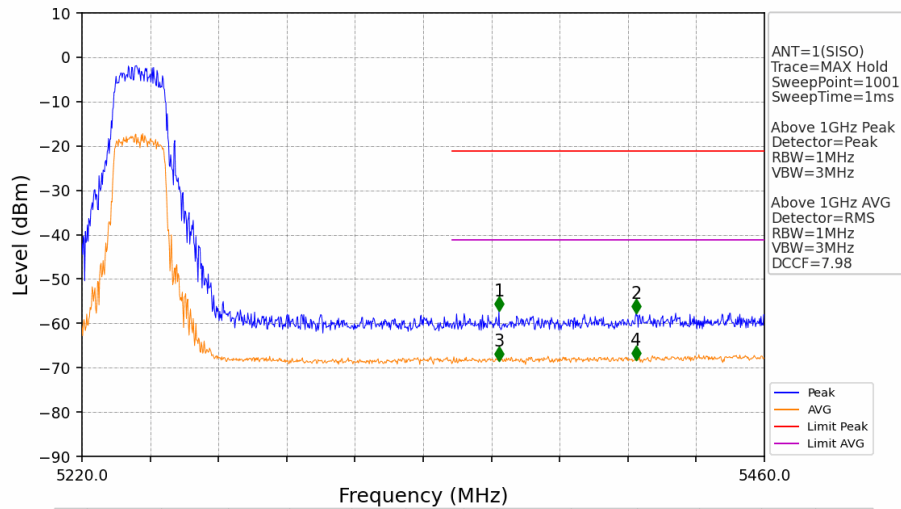
## 802.11ac(VHT20)\_HCH\_5240MHz\_Ant1\_NTNV



| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 20059.55        | -44.85      | -21.20      | 23.65       | Pass   | Peak   | 7  | 20059.55        | -47.74      | -41.20      | 6.54        | Pass   | AVG    |
| 2  | 21738.3         | -44.16      | -27.00      | 17.16       | Pass   | Peak   | 8  | 21738.3         | /           | -27.00      | /           | /      | AVG    |
| 3  | 22926.6         | -45.61      | -21.20      | 24.41       | Pass   | Peak   | 9  | 22926.6         | -46.51      | -41.20      | 5.31        | Pass   | AVG    |
| 4  | 23720.5         | -41.91      | -21.20      | 20.71       | Pass   | Peak   | 10 | 23720.5         | -44.06      | -41.20      | 2.86        | Pass   | AVG    |
| 5  | 24771.1         | -42.57      | -27.00      | 15.57       | Pass   | Peak   | 11 | 24771.1         | /           | -27.00      | /           | /      | AVG    |
| 6  | 25757.1         | -41.48      | -27.00      | 14.48       | Pass   | Peak   | 12 | 25757.1         | /           | -27.00      | /           | /      | AVG    |

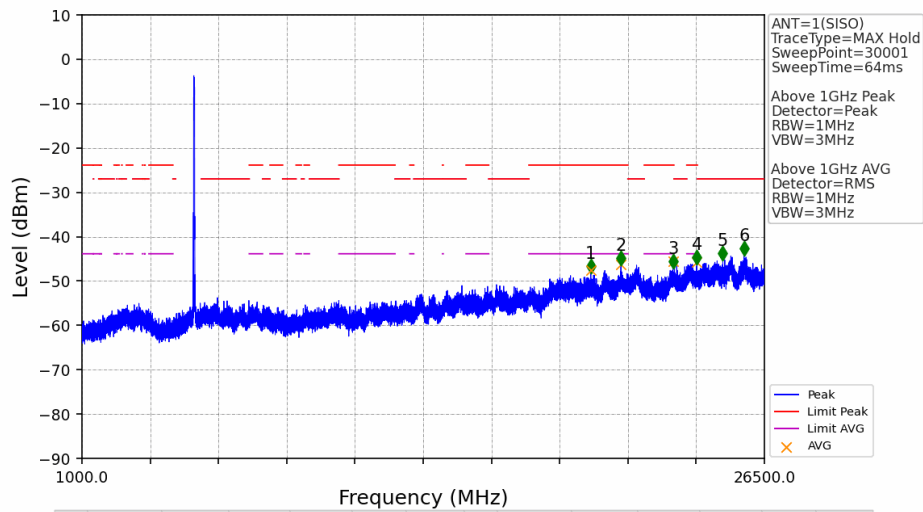


## 802.11ac(VHT20) HCH 5240MHz Ant1\_NTNV



| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|
| 3  | 5366.640        | -68.49      | -41.20      | 24.62       | Pass   | AVG    |
| 4  | 5414.880        | -68.29      | -41.20      | 24.42       | Pass   | AVG    |

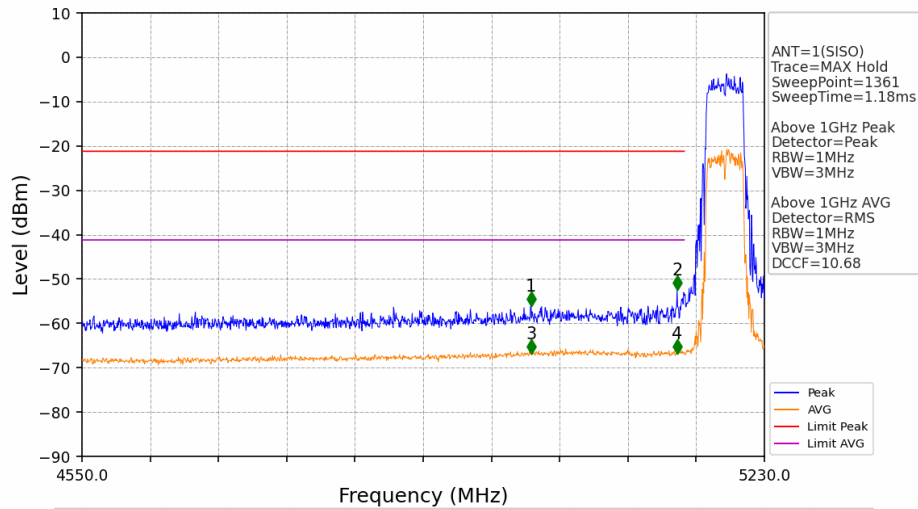
## 802.11ac(VHT40) LCH 5190MHz Ant1\_NTNV



| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|
| 7  | 20012.8         | -44.91      | -41.20      | 3.71        | Pass   | AVG    |
| 8  | 21139.05        | -43.68      | -41.20      | 2.48        | Pass   | AVG    |
| 9  | 23081.3         | -42.87      | -41.20      | 1.67        | Pass   | AVG    |
| 10 | 23982.3         | -43.13      | -41.20      | 1.93        | Pass   | AVG    |
| 11 | 24947.05        | /           | -27.00      | /           | /      | AVG    |
| 12 | 25738.4         | /           | -27.00      | /           | /      | AVG    |

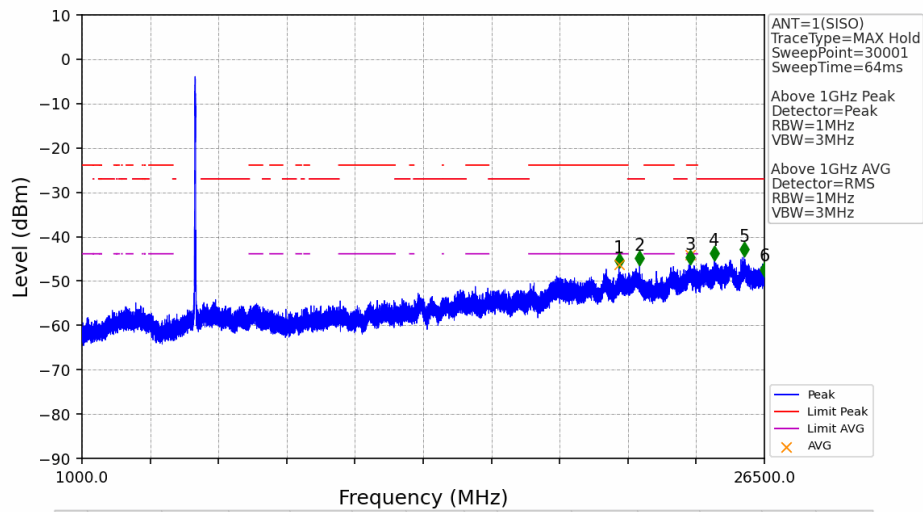


## 802.11ac(VHT40) LCH\_5190MHz\_Ant1\_NTNV



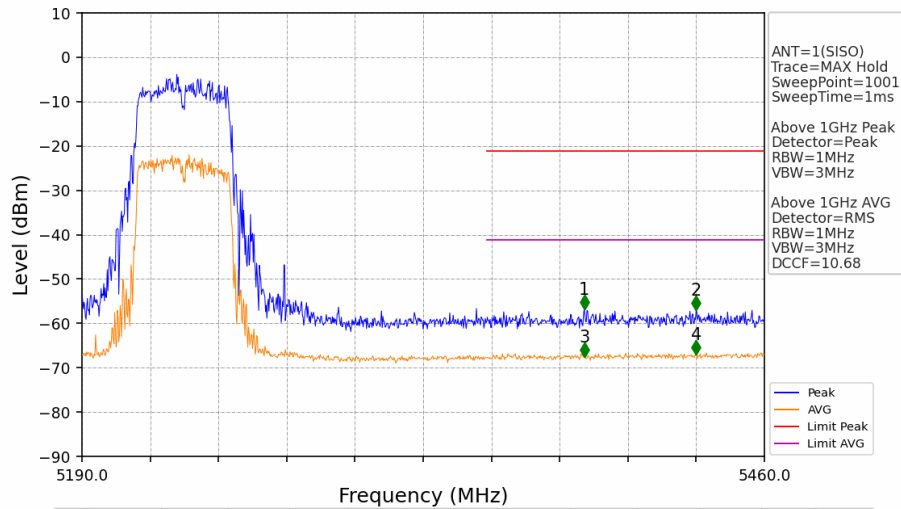
| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status Remark |
|----|-----------------|-------------|-------------|-------------|---------------|----|-----------------|-------------|-------------|-------------|---------------|
| 1  | 4997.500        | -53.45      | -21.20      | 32.26       | Pass Peak     | 3  | 4997.500        | -66.90      | -41.20      | 23.03       | Pass AVG      |
| 2  | 5143.000        | -49.79      | -21.20      | 28.59       | Pass Peak     | 4  | 5143.000        | -66.77      | -41.20      | 22.90       | Pass AVG      |

## 802.11ac(VHT40) HCH\_5230MHz\_Ant1\_NTNV

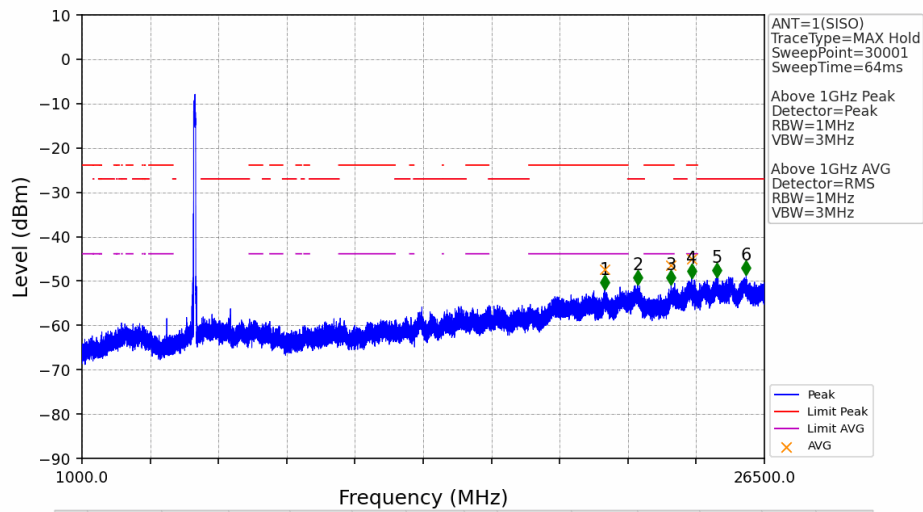


| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status Remark |
|----|-----------------|-------------|-------------|-------------|---------------|----|-----------------|-------------|-------------|-------------|---------------|
| 1  | 21065.1         | -44.30      | -21.20      | 23.10       | Pass Peak     | 7  | 21065.1         | -43.62      | -41.20      | 2.42        | Pass AVG      |
| 2  | 21834.35        | -43.80      | -27.00      | 16.80       | Pass Peak     | 8  | 21834.35        | /           | -27.00      | /           | AVG           |
| 3  | 23713.7         | -43.56      | -21.20      | 22.36       | Pass Peak     | 9  | 23713.7         | -41.49      | -41.20      | 0.29        | Pass AVG      |
| 4  | 24633.4         | -42.73      | -27.00      | 15.73       | Pass Peak     | 10 | 24633.4         | /           | -27.00      | /           | AVG           |
| 5  | 25731.6         | -41.80      | -27.00      | 14.80       | Pass Peak     | 11 | 25731.6         | /           | -27.00      | /           | AVG           |
| 6  | 26499.15        | -46.20      | -27.00      | 19.20       | Pass Peak     | 12 | 26499.15        | /           | -27.00      | /           | AVG           |

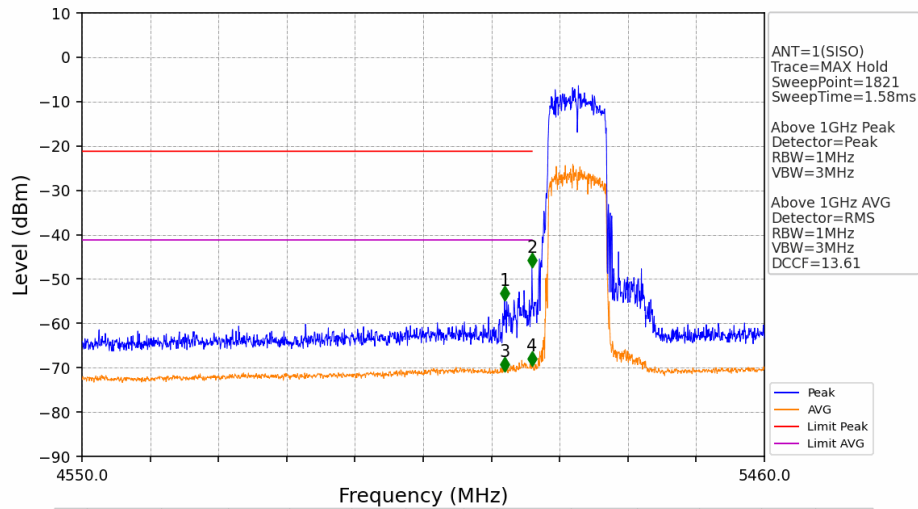
## 802.11ac(VHT40)\_HCH\_5230MHz\_Ant1\_NTNV



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

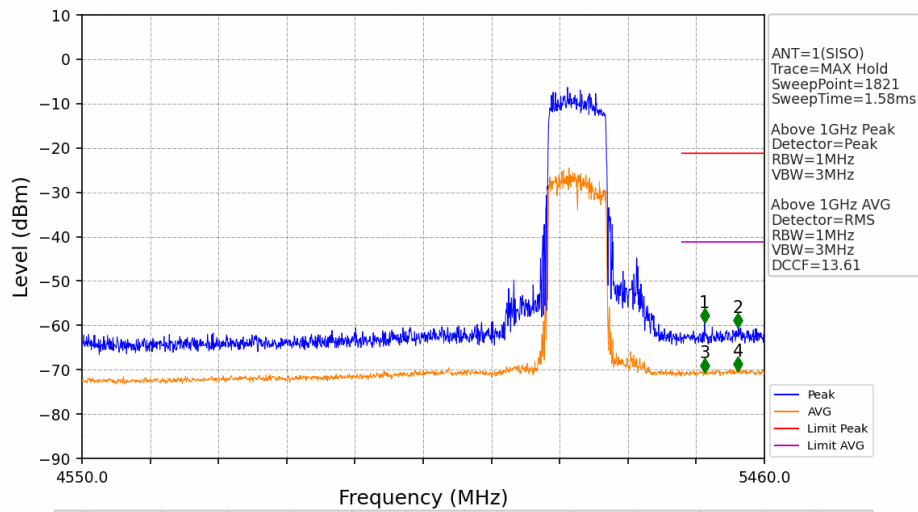


## 802.11ac(VHT80)\_MCH\_5210MHz\_Ant1\_NTNV



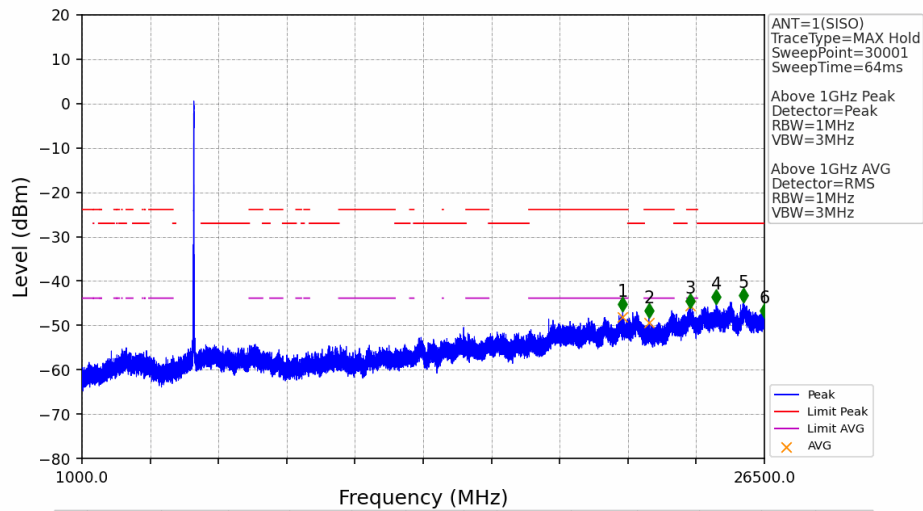
| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 5113.500        | -52.09      | -21.20      | 30.89       | Pass   | Peak   | 3  | 5113.500        | -70.75      | -41.20      | 26.88       | Pass   | AVG    |
| 2  | 5150.000        | -44.72      | -21.20      | 23.52       | Pass   | Peak   | 4  | 5150.000        | -69.60      | -41.20      | 25.73       | Pass   | AVG    |

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



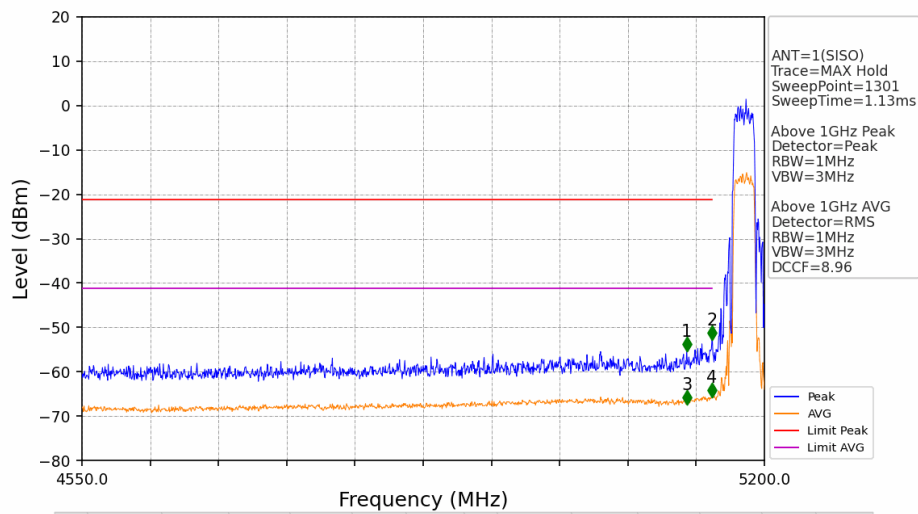
| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 5380.000        | -56.63      | -21.20      | 35.43       | Pass   | AVG    | 3  | 5380.000        | -70.61      | -41.20      | 26.73       | Pass   | AVG    |
| 2  | 5425.000        | -57.70      | -21.20      | 36.50       | Pass   | AVG    | 4  | 5425.000        | -70.32      | -41.20      | 26.45       | Pass   | AVG    |

## 802.11ax(HEW20)\_LCH\_5180MHz\_SU\_ / Ant1\_NTNV



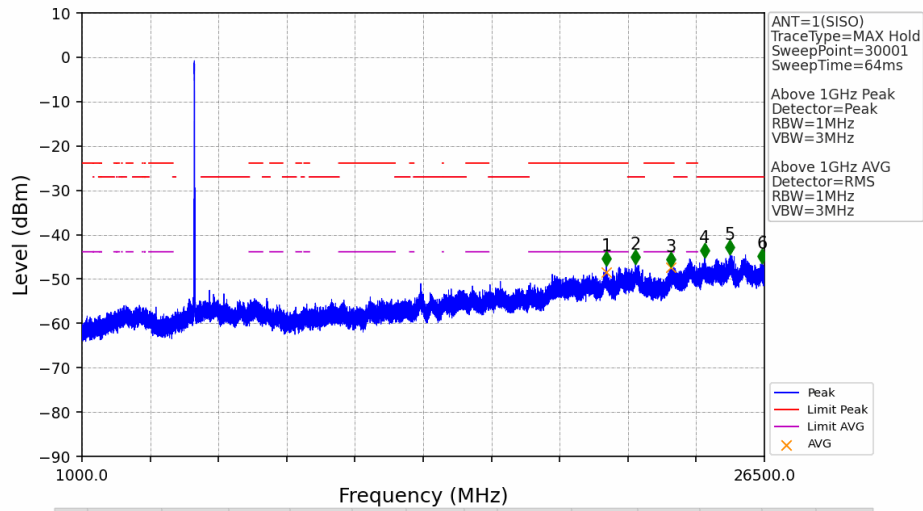
| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 21205.35        | -44.16      | -21.20      | 22.96       | Pass   | Peak   | 7  | 21205.35        | -45.49      | -41.20      | 4.29        | Pass   | AVG    |
| 2  | 22182.85        | -45.56      | -21.20      | 24.36       | Pass   | Peak   | 8  | 22182.85        | -46.77      | -41.20      | 5.57        | Pass   | AVG    |
| 3  | 23734.95        | -43.40      | -21.20      | 22.20       | Pass   | Peak   | 9  | 23734.95        | -42.88      | -41.20      | 1.68        | Pass   | AVG    |
| 4  | 24697.15        | -42.50      | -27.00      | 15.50       | Pass   | Peak   | 10 | 24697.15        | /           | -27.00      | /           | /      | AVG    |
| 5  | 25727.35        | -42.06      | -27.00      | 15.06       | Pass   | Peak   | 11 | 25727.35        | /           | -27.00      | /           | /      | AVG    |
| 6  | 26497.45        | -45.60      | -27.00      | 18.60       | Pass   | Peak   | 12 | 26497.45        | /           | -27.00      | /           | /      | AVG    |

## 802.11ax(HEW20)\_LCH\_5180MHz\_SU\_ / Ant1\_NTNV



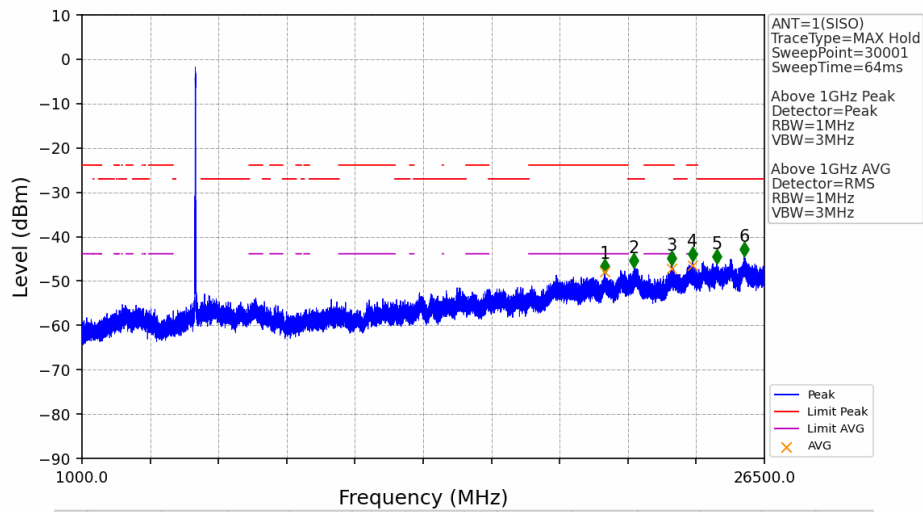
| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 5126.000        | -52.71      | -21.20      | 31.51       | Pass   | Peak   | 3  | 5126.000        | -67.30      | -41.20      | 23.43       | Pass   | AVG    |
| 2  | 5150.000        | -50.16      | -21.20      | 28.96       | Pass   | Peak   | 4  | 5150.000        | -65.75      | -41.20      | 21.88       | Pass   | AVG    |

## 802.11ax(HEW20)\_MCH\_5200MHz\_SU / Ant1\_NTNV



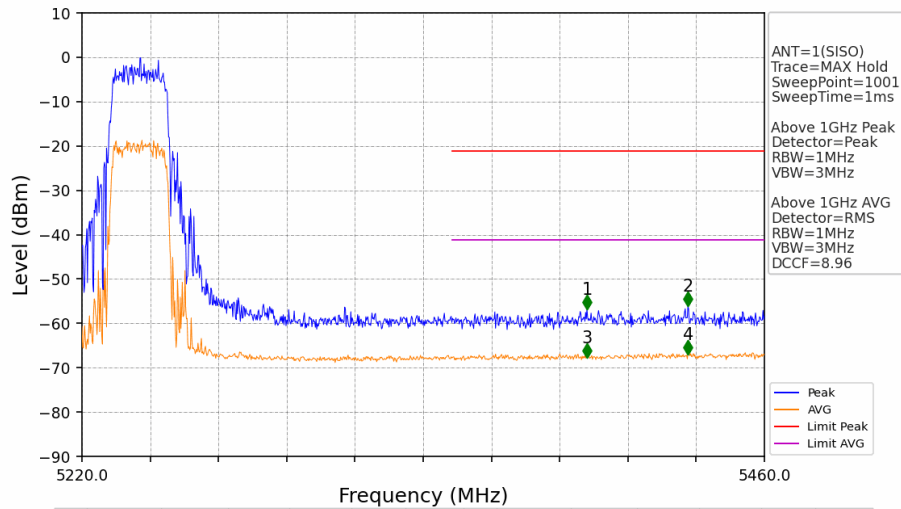
| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status Remark |
|----|-----------------|-------------|-------------|-------------|---------------|----|-----------------|-------------|-------------|-------------|---------------|
| 1  | 20595.05        | -44.27      | -21.20      | 23.07       | Pass Peak     | 7  | 20595.05        | -45.76      | -41.20      | 4.56        | Pass AVG      |
| 2  | 21683.05        | -43.98      | -27.00      | 16.98       | Pass Peak     | 8  | 21683.05        | /           | -27.00      | /           | / AVG         |
| 3  | 23003.95        | -44.42      | -21.20      | 23.22       | Pass Peak     | 9  | 23003.95        | -44.77      | -41.20      | 3.57        | Pass AVG      |
| 4  | 24261.95        | -42.41      | -27.00      | 15.41       | Pass Peak     | 10 | 24261.95        | /           | -27.00      | /           | / AVG         |
| 5  | 25216.5         | -41.67      | -27.00      | 14.67       | Pass Peak     | 11 | 25216.5         | /           | -27.00      | /           | / AVG         |
| 6  | 26412.45        | -43.69      | -27.00      | 16.69       | Pass Peak     | 12 | 26412.45        | /           | -27.00      | /           | / AVG         |

## 802.11ax(HEW20)\_HCH\_5240MHz\_SU / Ant1\_NTNV



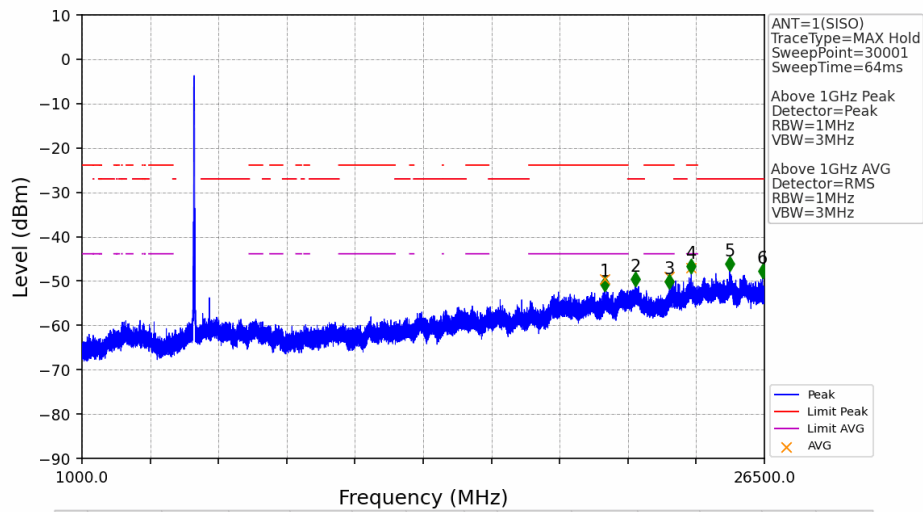
| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status Remark |
|----|-----------------|-------------|-------------|-------------|---------------|----|-----------------|-------------|-------------|-------------|---------------|
| 1  | 20534.7         | -45.62      | -21.20      | 24.42       | Pass Peak     | 7  | 20534.7         | -45.26      | -41.20      | 4.06        | Pass AVG      |
| 2  | 21630.35        | -44.36      | -27.00      | 17.36       | Pass Peak     | 8  | 21630.35        | /           | -27.00      | /           | / AVG         |
| 3  | 23032.85        | -43.82      | -21.20      | 22.62       | Pass Peak     | 9  | 23032.85        | -44.54      | -41.20      | 3.34        | Pass AVG      |
| 4  | 23809.75        | -42.84      | -21.20      | 21.64       | Pass Peak     | 10 | 23809.75        | -43.83      | -41.20      | 2.63        | Pass AVG      |
| 5  | 24726.9         | -43.45      | -27.00      | 16.45       | Pass Peak     | 11 | 24726.9         | /           | -27.00      | /           | / AVG         |
| 6  | 25739.25        | -41.82      | -27.00      | 14.82       | Pass Peak     | 12 | 25739.25        | /           | -27.00      | /           | / AVG         |

## 802.11ax(HEW20)\_HCH\_5240MHz\_SU\_ / Ant1\_NTNV



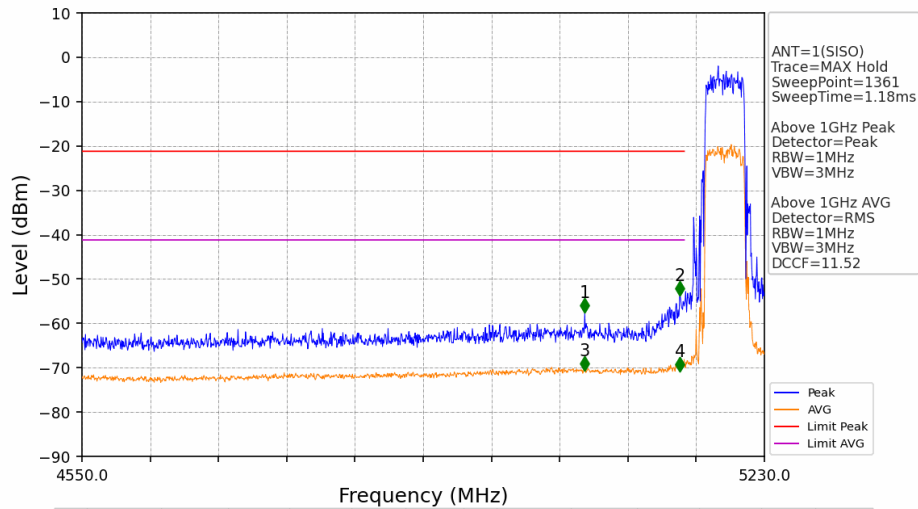
| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status Remark |
|----|-----------------|-------------|-------------|-------------|---------------|----|-----------------|-------------|-------------|-------------|---------------|
| 1  | 5397.600        | -54.07      | -21.20      | 32.87       | Pass Peak     | 3  | 5397.600        | -67.69      | -41.20      | 23.82       | Pass AVG      |
| 2  | 5433.120        | -53.35      | -21.20      | 32.16       | Pass Peak     | 4  | 5433.120        | -66.95      | -41.20      | 23.08       | Pass AVG      |

## 802.11ax(HEW40)\_LCH\_5190MHz\_SU\_ / Ant1\_NTNV



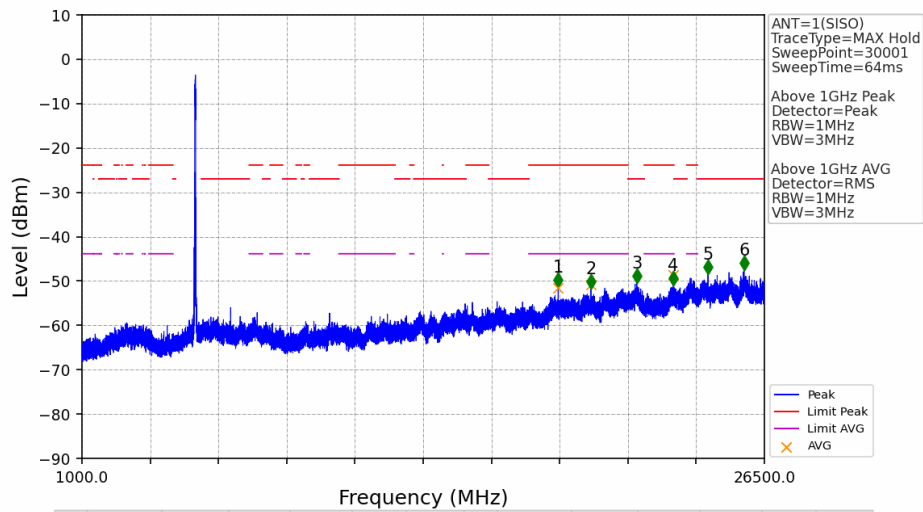
| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status Remark |
|----|-----------------|-------------|-------------|-------------|---------------|----|-----------------|-------------|-------------|-------------|---------------|
| 1  | 20527.05        | -49.60      | -21.20      | 28.41       | Pass Peak     | 7  | 20527.05        | -46.88      | -41.20      | 5.68        | Pass AVG      |
| 2  | 21666.05        | -48.44      | -27.00      | 21.44       | Pass Peak     | 8  | 21666.05        | /           | -27.00      | /           | Pass AVG      |
| 3  | 22952.1         | -49.01      | -21.20      | 27.81       | Pass Peak     | 9  | 22952.1         | -46.27      | -41.20      | 5.07        | Pass AVG      |
| 4  | 23765.55        | -45.51      | -21.20      | 24.31       | Pass Peak     | 10 | 23765.55        | -44.42      | -41.20      | 3.23        | Pass AVG      |
| 5  | 25202.05        | -45.10      | -27.00      | 18.10       | Pass Peak     | 11 | 25202.05        | /           | -27.00      | /           | Pass AVG      |
| 6  | 26426.9         | -46.65      | -27.00      | 19.65       | Pass Peak     | 12 | 26426.9         | /           | -27.00      | /           | Pass AVG      |

## 802.11ax(HEW40)\_LCH\_5190MHz\_SU\_ / Ant1\_NTNV



| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 5051.000        | -54.94      | -21.20      | 33.74       | Pass   | Peak   | 3  | 5051.000        | -70.59      | -41.20      | 26.73       | Pass   | AVG    |
| 2  | 5146.000        | -51.03      | -21.20      | 29.83       | Pass   | Peak   | 4  | 5146.000        | -70.74      | -41.20      | 26.87       | Pass   | AVG    |

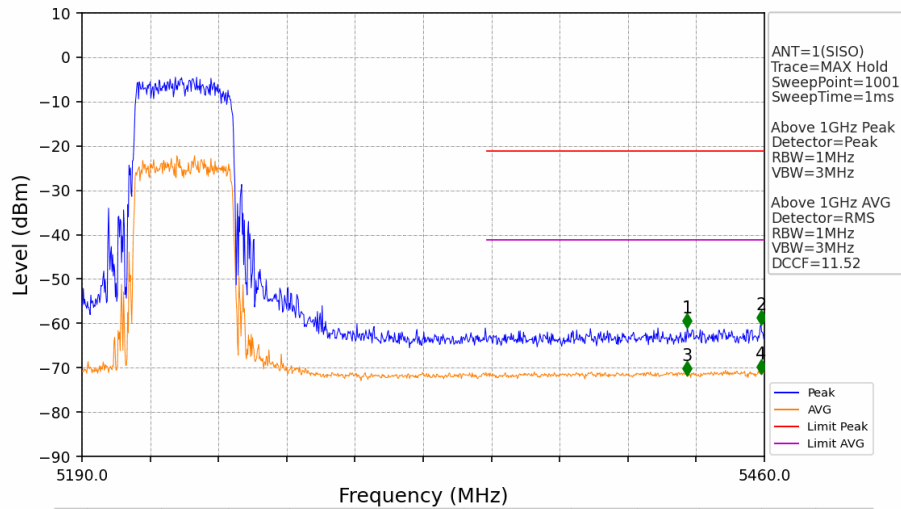
## 802.11ax(HEW40)\_HCH\_5230MHz\_SU\_ / Ant1\_NTNV



| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 18793.9         | -48.71      | -21.20      | 27.51       | Pass   | Peak   | 7  | 18793.9         | -48.84      | -41.20      | 7.64        | Pass   | AVG    |
| 2  | 20017.9         | -48.94      | -21.20      | 27.74       | Pass   | Peak   | 8  | 20017.9         | -48.10      | -41.20      | 6.90        | Pass   | AVG    |
| 3  | 21730.65        | -47.82      | -27.00      | 20.82       | Pass   | Peak   | 9  | 21730.65        | /           | -27.00      | /           | /      | AVG    |
| 4  | 23085.55        | -48.22      | -21.20      | 27.02       | Pass   | Peak   | 10 | 23085.55        | -45.90      | -41.20      | 4.70        | Pass   | AVG    |
| 5  | 24392           | -45.68      | -27.00      | 18.68       | Pass   | Peak   | 11 | 24392           | /           | -27.00      | /           | /      | AVG    |
| 6  | 25740.1         | -44.89      | -27.00      | 17.89       | Pass   | Peak   | 12 | 25740.1         | /           | -27.00      | /           | /      | AVG    |

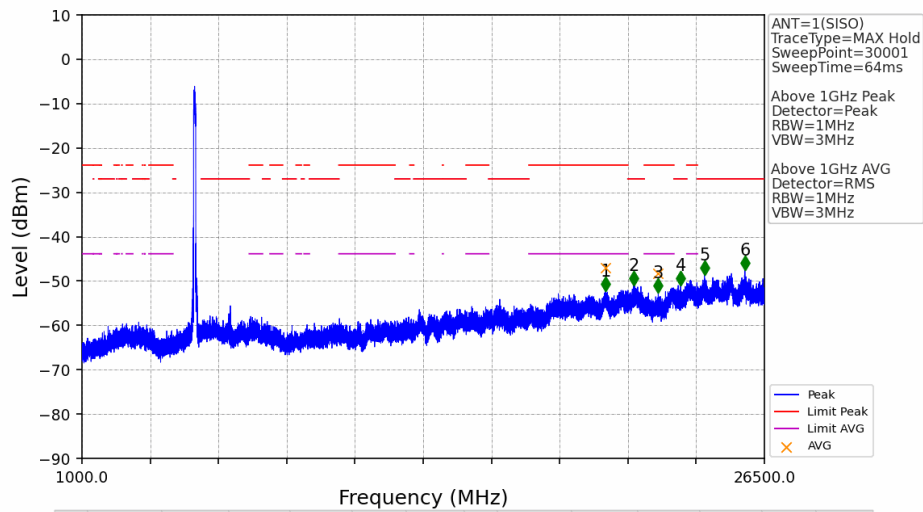


## 802.11ax(HEW40)\_HCH\_5230MHz\_SU / Ant1\_NTNV



| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 5429.490        | -58.32      | -21.20      | 37.12       | Pass   | Peak   | 3  | 5429.490        | -71.81      | -41.20      | 27.94       | Pass   | AVG    |
| 2  | 5458.650        | -57.64      | -21.20      | 36.44       | Pass   | Peak   | 4  | 5458.650        | -71.35      | -41.20      | 27.48       | Pass   | AVG    |

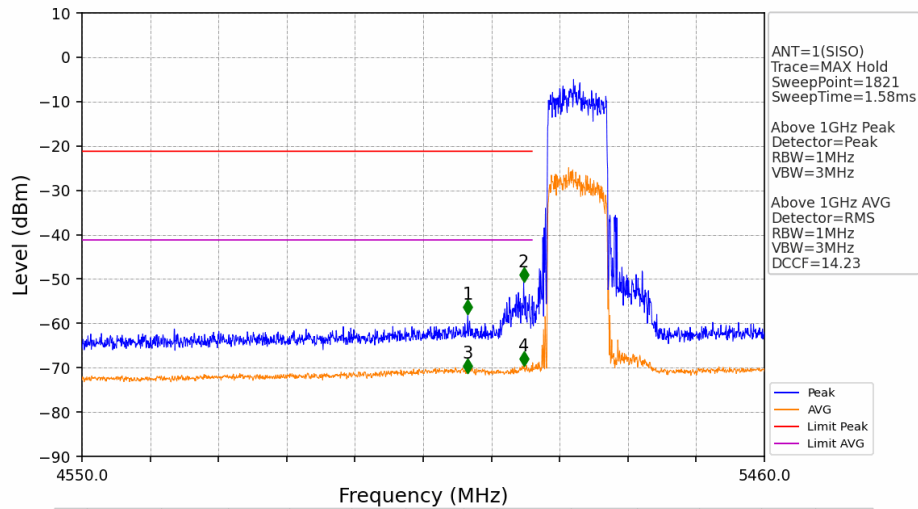
## 802.11ax(HEW80)\_MCH\_5210MHz\_SU / Ant1\_NTNV



| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 20556.8         | -49.49      | -21.20      | 28.29       | Pass   | Peak   | 7  | 20556.8         | -44.39      | -41.20      | 3.19        | Pass   | AVG    |
| 2  | 21616.75        | -48.31      | -27.00      | 21.31       | Pass   | Peak   | 8  | 21616.75        | /           | -41.20      | /           | /      | AVG    |
| 3  | 22533.9         | -49.93      | -21.20      | 28.73       | Pass   | Peak   | 9  | 22533.9         | -45.62      | -41.20      | 4.42        | Pass   | AVG    |
| 4  | 23369.45        | -48.24      | -27.00      | 21.24       | Pass   | Peak   | 10 | 23369.45        | /           | -41.20      | /           | /      | AVG    |
| 5  | 24259.4         | -45.99      | -27.00      | 18.99       | Pass   | Peak   | 11 | 24259.4         | /           | -41.20      | /           | /      | AVG    |
| 6  | 25771.55        | -44.84      | -27.00      | 17.84       | Pass   | Peak   | 12 | 25771.55        | /           | -41.20      | /           | /      | AVG    |

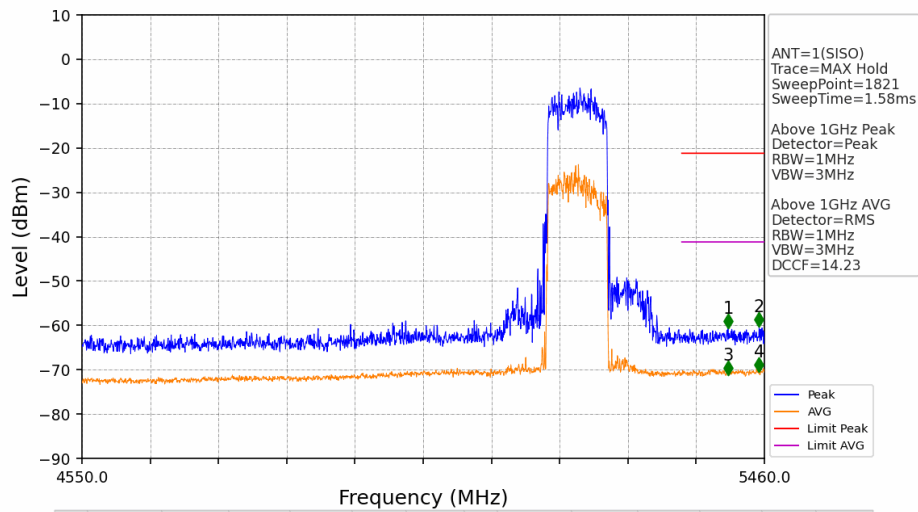


## 802.11ax(HEW80)\_MCH\_5210MHz\_SU / Ant1\_NTNV



| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 5064.500        | -55.22      | -21.20      | 34.02       | Pass   | Peak   | 3  | 5064.500        | -71.15      | -41.20      | 27.28       | Pass   | AVG    |
| 2  | 5139.000        | -47.95      | -21.20      | 26.75       | Pass   | Peak   | 4  | 5139.000        | -69.60      | -41.20      | 25.73       | Pass   | AVG    |

## 802.11ax(HEW80)\_MCH\_5210MHz\_SU / Ant1\_NTNV



| No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark | No | Frequency (MHz) | Level (dBm) | Limit (dBm) | Margin (dB) | Status | Remark |
|----|-----------------|-------------|-------------|-------------|--------|--------|----|-----------------|-------------|-------------|-------------|--------|--------|
| 1  | 5411.500        | -57.97      | -21.20      | 36.77       | Pass   | AVG    | 3  | 5411.500        | -71.24      | -41.20      | 27.37       | Pass   | AVG    |
| 2  | 5453.000        | -57.55      | -21.20      | 36.35       | Pass   | AVG    | 4  | 5453.000        | -70.44      | -41.20      | 26.57       | Pass   | AVG    |

## 6. Frequency Stability

### 6.1 Test Result

#### 6.1.1 Ant1

| Ant1         |         |                 |                  |               |                          |              |         |
|--------------|---------|-----------------|------------------|---------------|--------------------------|--------------|---------|
| Mode         | TX Type | Frequency (MHz) | Temperature (°C) | Voltage (VAC) | Measured Frequency (MHz) | Limit (MHz)  | Verdict |
| Carrier Wave | SISO    | 5180            | 20               | 102           | 5179.969                 | 5150 to 5250 | Pass    |
|              |         |                 |                  | 120           | 5179.968                 | 5150 to 5250 | Pass    |
|              |         |                 |                  | 138           | 5179.968                 | 5150 to 5250 | Pass    |
|              |         |                 | -30              | 120           | 5179.968                 | 5150 to 5250 | Pass    |
|              |         |                 | -20              | 120           | 5179.968                 | 5150 to 5250 | Pass    |
|              |         |                 | -10              | 120           | 5179.968                 | 5150 to 5250 | Pass    |
|              |         |                 | 0                | 120           | 5179.968                 | 5150 to 5250 | Pass    |
|              |         |                 | 10               | 120           | 5179.969                 | 5150 to 5250 | Pass    |
|              |         |                 | 30               | 120           | 5179.969                 | 5150 to 5250 | Pass    |
|              |         |                 | 40               | 120           | 5179.969                 | 5150 to 5250 | Pass    |
|              |         |                 | 50               | 120           | 5179.969                 | 5150 to 5250 | Pass    |
|              |         | 5200            | 20               | 102           | 5199.968                 | 5150 to 5250 | Pass    |
|              |         |                 |                  | 120           | 5199.969                 | 5150 to 5250 | Pass    |
|              |         |                 |                  | 138           | 5199.969                 | 5150 to 5250 | Pass    |
|              |         |                 | -30              | 120           | 5199.969                 | 5150 to 5250 | Pass    |
|              |         |                 | -20              | 120           | 5199.969                 | 5150 to 5250 | Pass    |
|              |         |                 | -10              | 120           | 5199.969                 | 5150 to 5250 | Pass    |
|              |         |                 | 0                | 120           | 5199.969                 | 5150 to 5250 | Pass    |
|              |         |                 | 10               | 120           | 5199.969                 | 5150 to 5250 | Pass    |
|              |         |                 | 30               | 120           | 5199.969                 | 5150 to 5250 | Pass    |
|              |         |                 | 40               | 120           | 5199.969                 | 5150 to 5250 | Pass    |
|              |         |                 | 50               | 120           | 5199.969                 | 5150 to 5250 | Pass    |
|              |         | 5240            | 20               | 102           | 5239.968                 | 5150 to 5250 | Pass    |
|              |         |                 |                  | 120           | 5239.968                 | 5150 to 5250 | Pass    |
|              |         |                 |                  | 138           | 5239.968                 | 5150 to 5250 | Pass    |
|              |         |                 | -30              | 120           | 5239.968                 | 5150 to 5250 | Pass    |
|              |         |                 | -20              | 120           | 5239.969                 | 5150 to 5250 | Pass    |
|              |         |                 | -10              | 120           | 5239.968                 | 5150 to 5250 | Pass    |
|              |         |                 | 0                | 120           | 5239.969                 | 5150 to 5250 | Pass    |
|              |         |                 | 10               | 120           | 5239.969                 | 5150 to 5250 | Pass    |
|              |         |                 | 30               | 120           | 5239.968                 | 5150 to 5250 | Pass    |
|              |         |                 | 40               | 120           | 5239.968                 | 5150 to 5250 | Pass    |
|              |         |                 | 50               | 120           | 5239.968                 | 5150 to 5250 | Pass    |
|              |         | 5190            | 20               | 102           | 5189.969                 | 5150 to 5250 | Pass    |
|              |         |                 |                  | 120           | 5189.969                 | 5150 to 5250 | Pass    |
|              |         |                 |                  | 138           | 5189.969                 | 5150 to 5250 | Pass    |
|              |         |                 | -30              | 120           | 5189.969                 | 5150 to 5250 | Pass    |
|              |         |                 | -20              | 120           | 5189.969                 | 5150 to 5250 | Pass    |
|              |         |                 | -10              | 120           | 5189.969                 | 5150 to 5250 | Pass    |
|              |         |                 | 0                | 120           | 5189.969                 | 5150 to 5250 | Pass    |
|              |         |                 | 10               | 120           | 5189.969                 | 5150 to 5250 | Pass    |
|              |         |                 | 30               | 120           | 5189.969                 | 5150 to 5250 | Pass    |
|              |         |                 | 40               | 120           | 5189.969                 | 5150 to 5250 | Pass    |
|              |         |                 | 50               | 120           | 5189.969                 | 5150 to 5250 | Pass    |
|              |         | 5230            | 20               | 102           | 5229.969                 | 5150 to 5250 | Pass    |
|              |         |                 |                  | 120           | 5229.969                 | 5150 to 5250 | Pass    |
|              |         |                 |                  | 138           | 5229.969                 | 5150 to 5250 | Pass    |
|              |         |                 | -30              | 120           | 5229.969                 | 5150 to 5250 | Pass    |

|  |  |      |     |     |          |              |      |
|--|--|------|-----|-----|----------|--------------|------|
|  |  |      | -20 | 120 | 5229.969 | 5150 to 5250 | Pass |
|  |  |      | -10 | 120 | 5229.969 | 5150 to 5250 | Pass |
|  |  |      | 0   | 120 | 5229.969 | 5150 to 5250 | Pass |
|  |  |      | 10  | 120 | 5229.969 | 5150 to 5250 | Pass |
|  |  |      | 30  | 120 | 5229.969 | 5150 to 5250 | Pass |
|  |  |      | 40  | 120 | 5229.969 | 5150 to 5250 | Pass |
|  |  |      | 50  | 120 | 5229.969 | 5150 to 5250 | Pass |
|  |  | 5210 | 20  | 102 | 5209.969 | 5150 to 5250 | Pass |
|  |  |      |     | 120 | 5209.969 | 5150 to 5250 | Pass |
|  |  |      |     | 138 | 5209.969 | 5150 to 5250 | Pass |
|  |  |      | -30 | 120 | 5209.969 | 5150 to 5250 | Pass |
|  |  |      | -20 | 120 | 5209.969 | 5150 to 5250 | Pass |
|  |  |      | -10 | 120 | 5209.969 | 5150 to 5250 | Pass |
|  |  |      | 0   | 120 | 5209.969 | 5150 to 5250 | Pass |
|  |  |      | 10  | 120 | 5209.969 | 5150 to 5250 | Pass |
|  |  |      | 30  | 120 | 5209.969 | 5150 to 5250 | Pass |
|  |  |      | 40  | 120 | 5209.969 | 5150 to 5250 | Pass |
|  |  |      | 50  | 120 | 5209.969 | 5150 to 5250 | Pass |

▶▶▶ END OF REPORT ◀◀◀

