

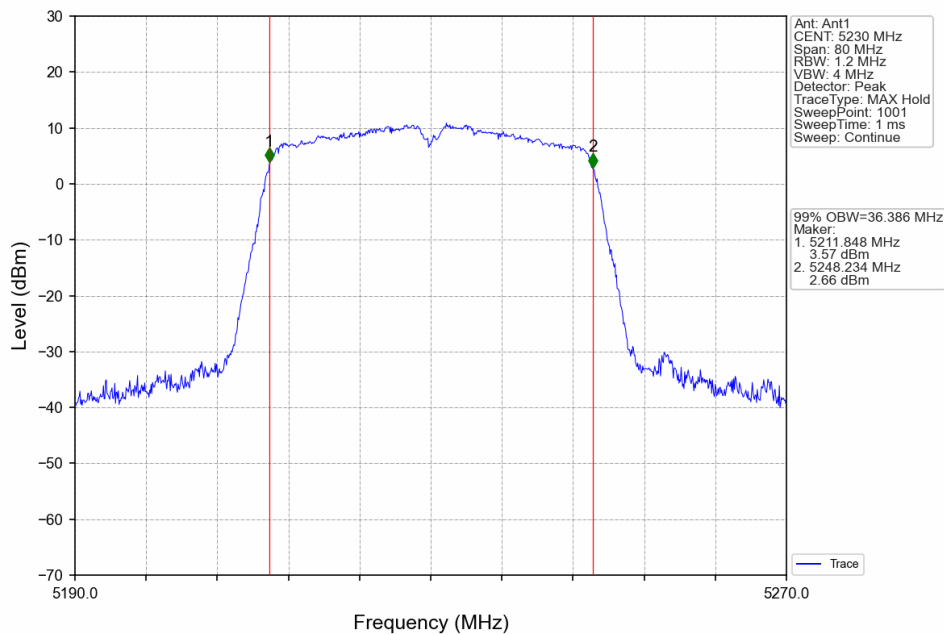
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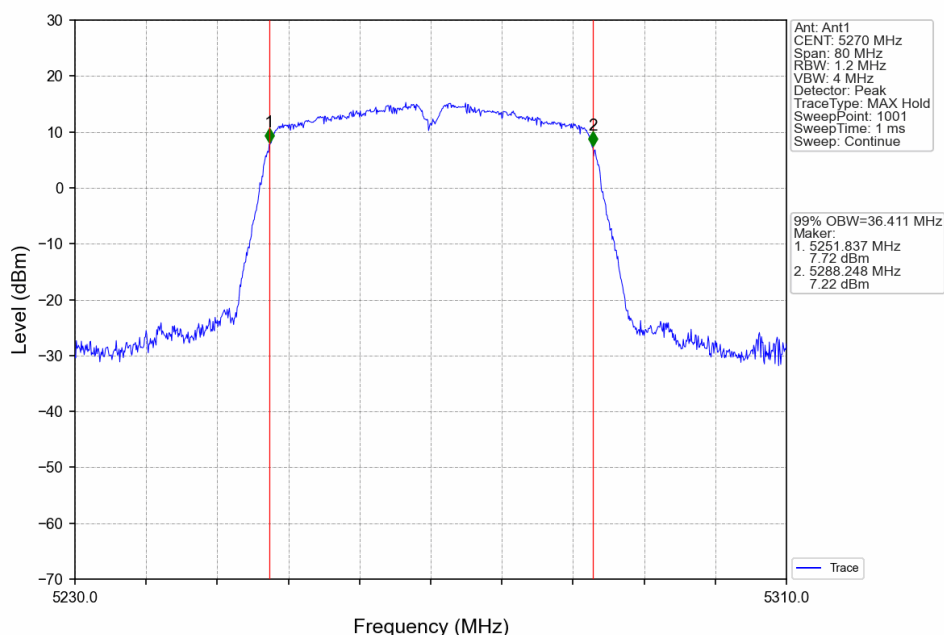
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802.11ac(VHT40)\_HCH\_5230MHz\_Ant1\_NTNV



802.11ac(VHT40)\_LCH\_5270MHz\_Ant1\_NTNV



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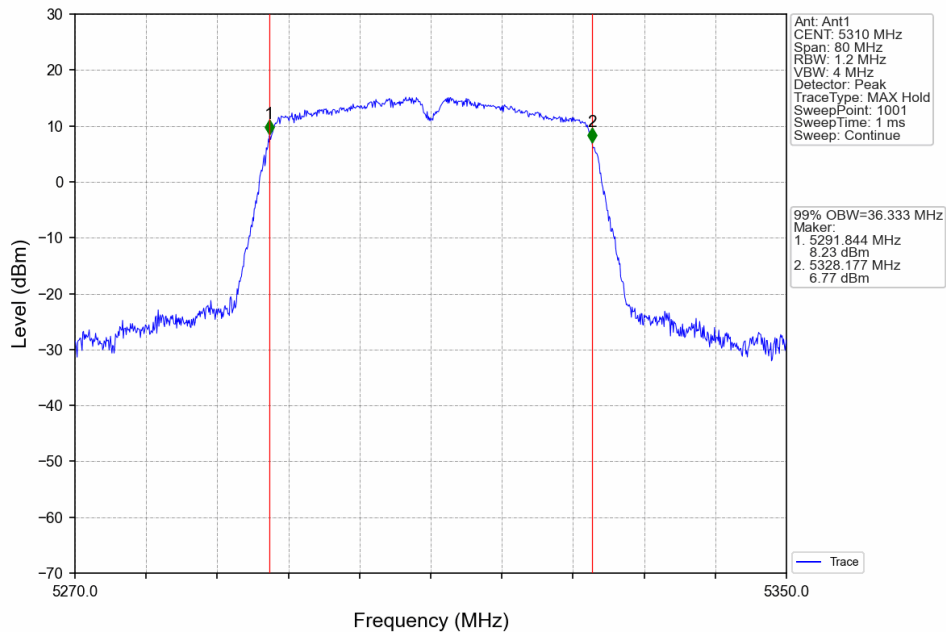
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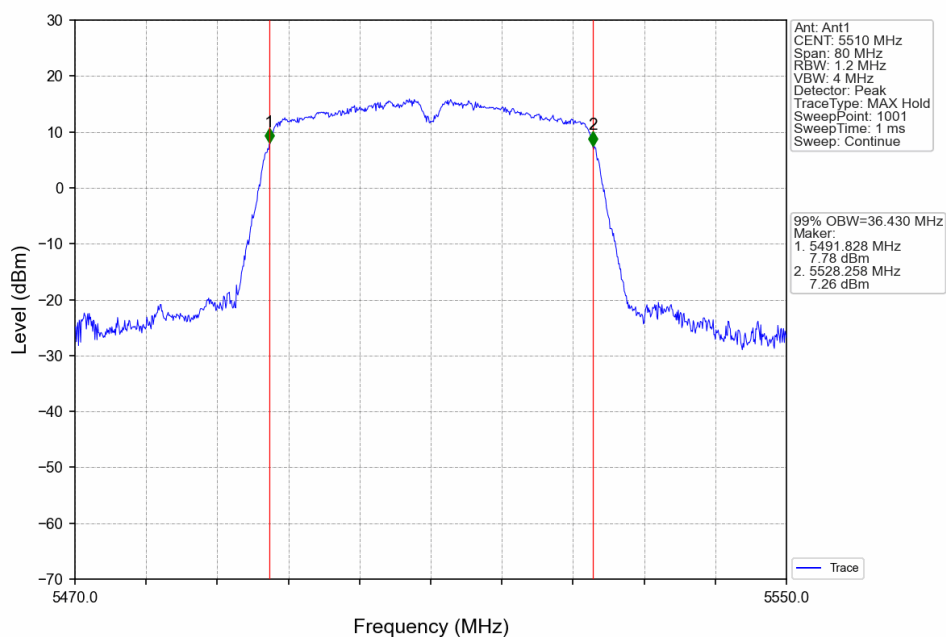
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802.11ac(VHT40)\_HCH\_5310MHz\_Ant1\_NTNV



802.11ac(VHT40)\_LCH\_5510MHz\_Ant1\_NTNV



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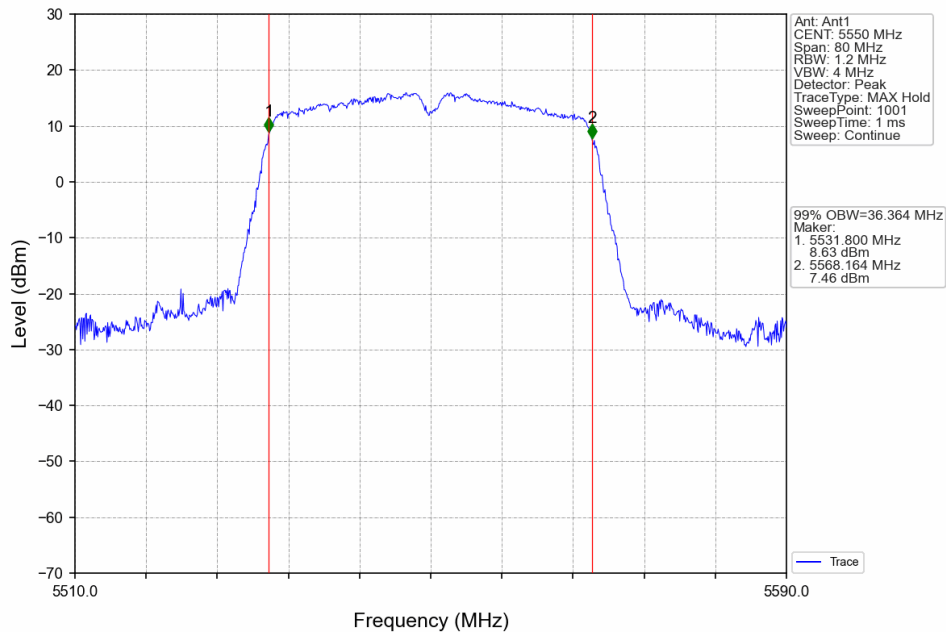
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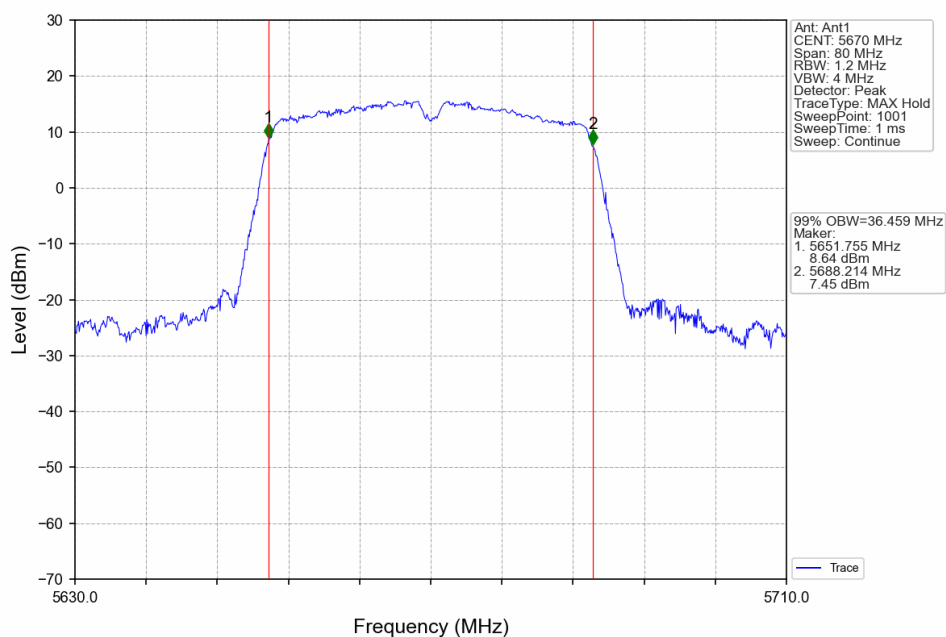
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802.11ac(VHT40)\_MCH\_5550MHz\_Ant1\_NTNV



802.11ac(VHT40)\_HCH\_5670MHz\_Ant1\_NTNV



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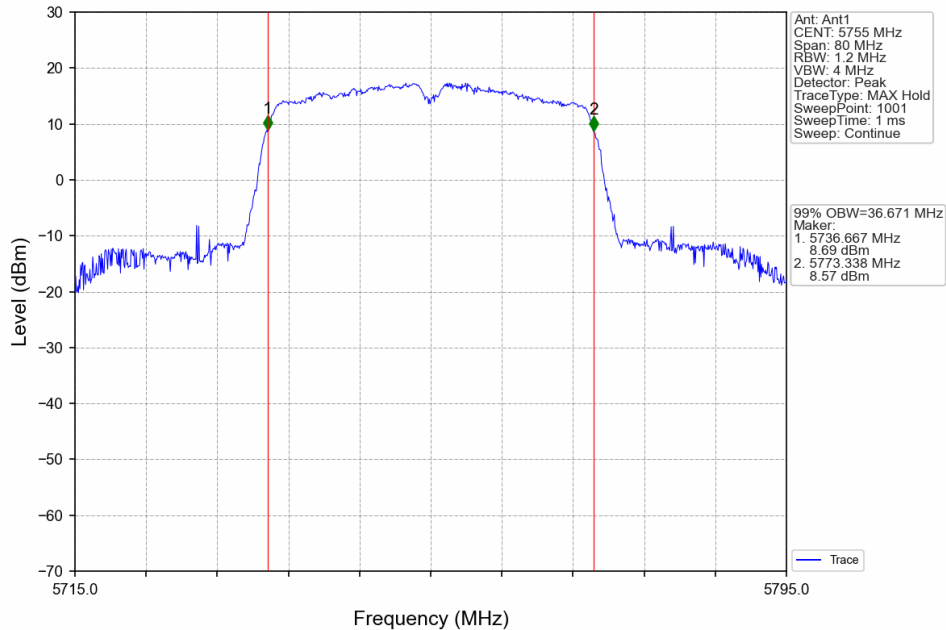
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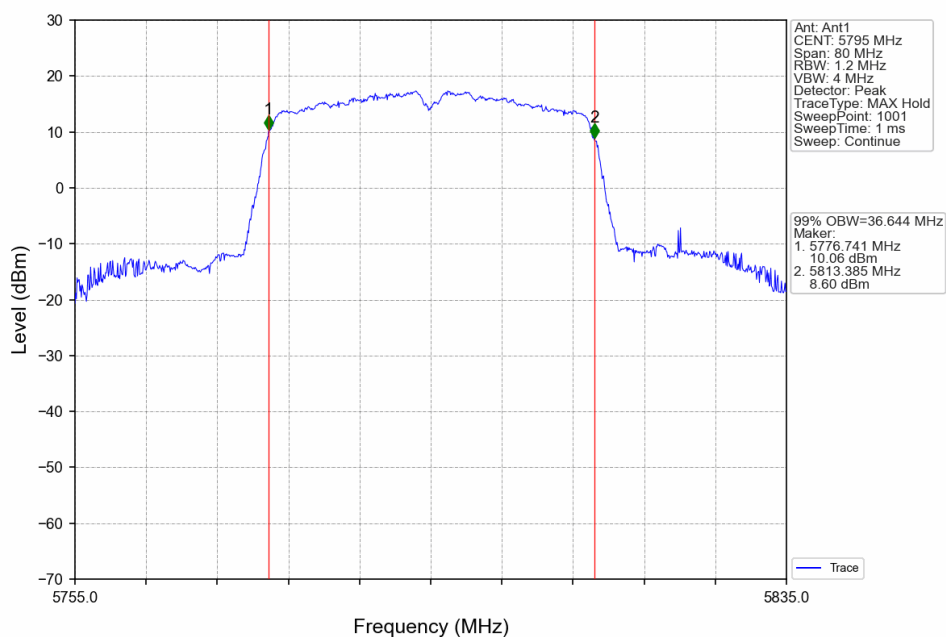
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802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



802.11ac(VHT40)\_HCH\_5795MHz\_Ant1\_NTNV



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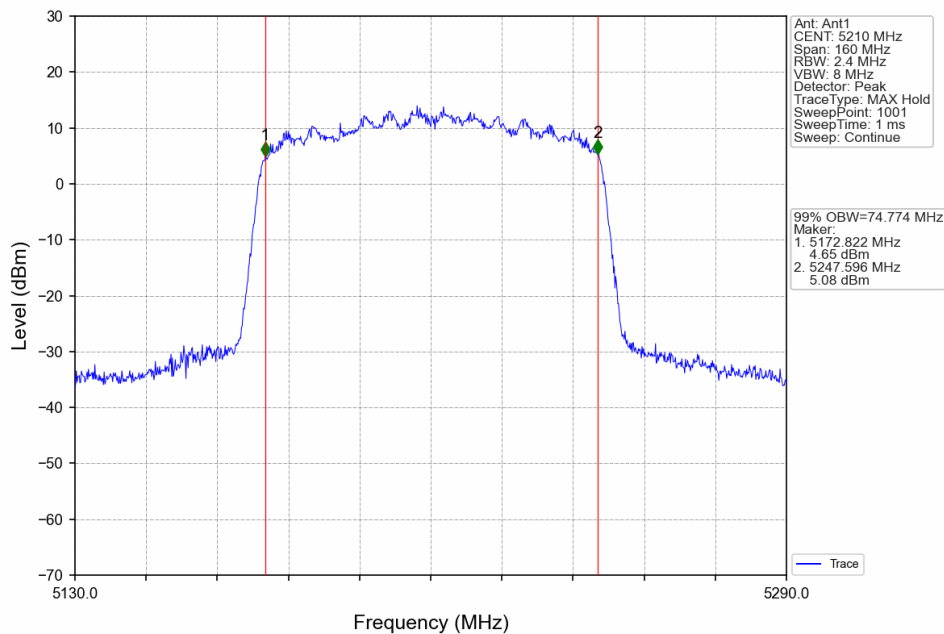
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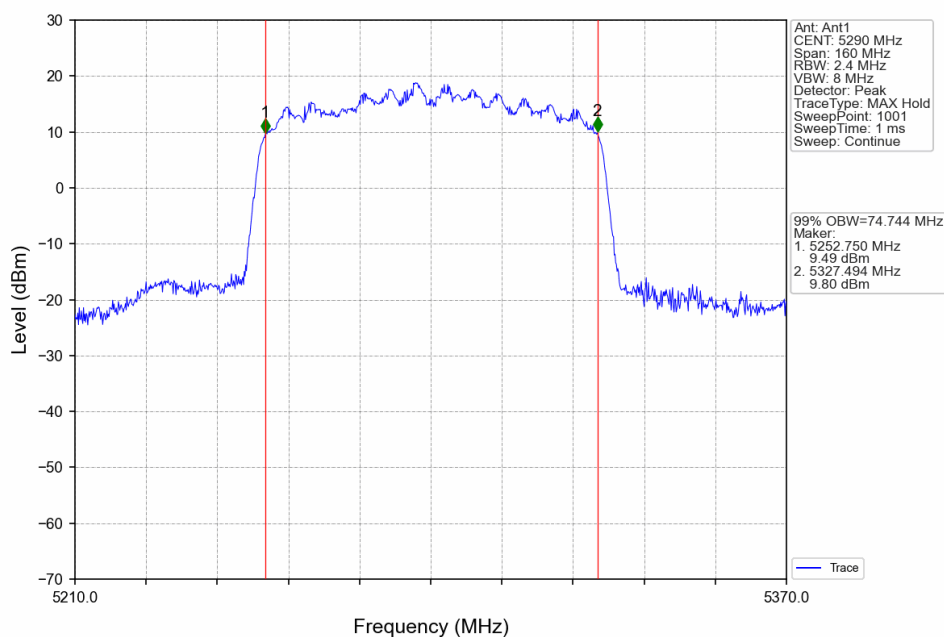
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802.11ac(VHT80)\_MCH\_5210MHz\_Ant1\_NTNV



802.11ac(VHT80)\_MCH\_5290MHz\_Ant1\_NTNV



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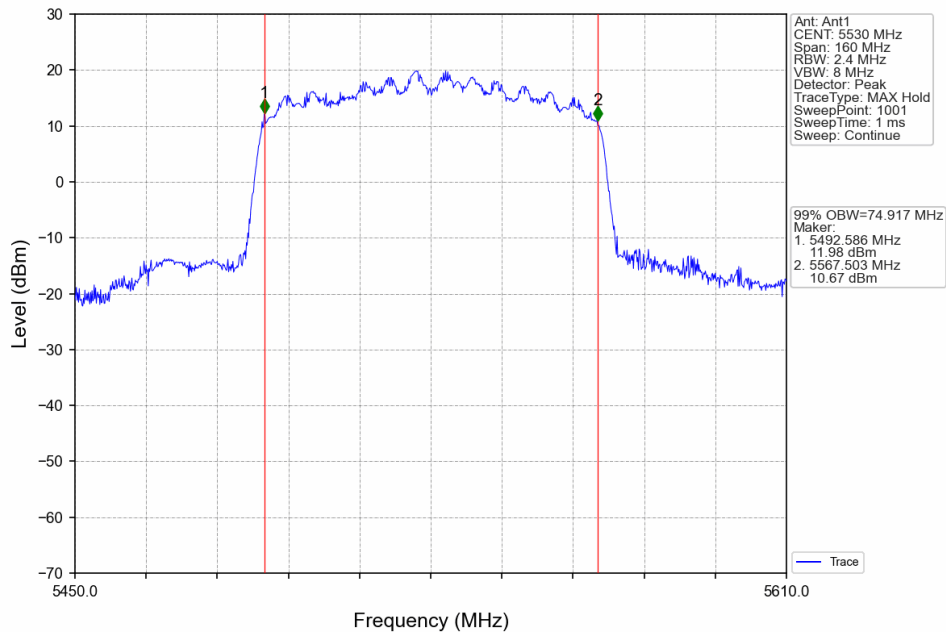
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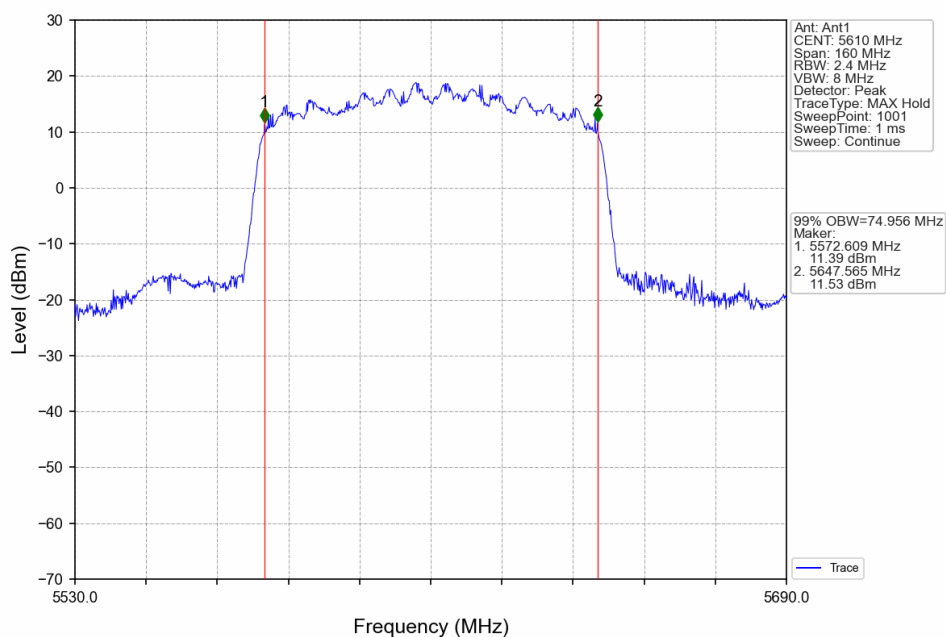
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802.11ac(VHT80)\_LCH\_5530MHz\_Ant1\_NTNV



802.11ac(VHT80)\_HCH\_5610MHz\_Ant1\_NTNV



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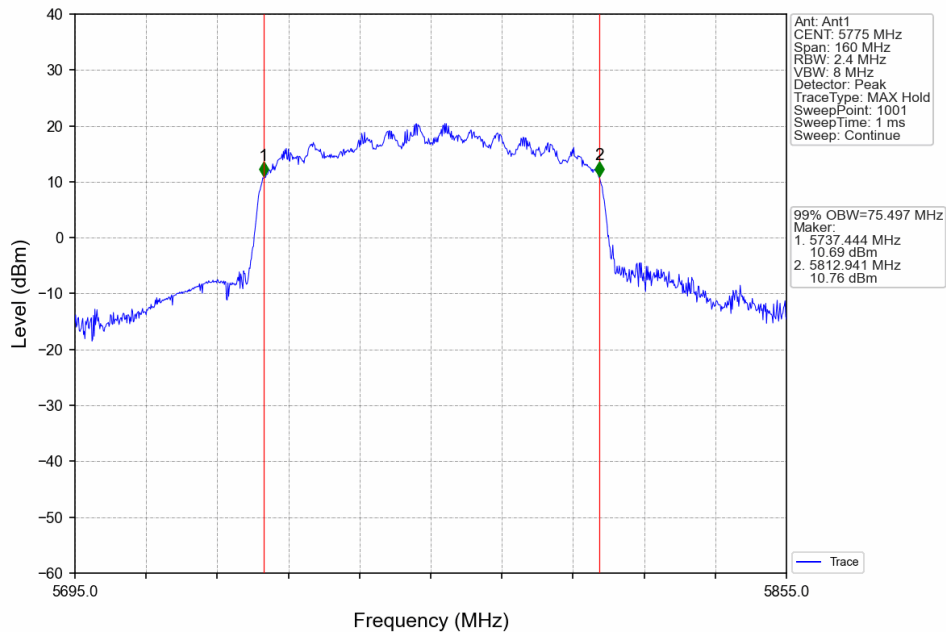
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802.11ac(VHT80)\_MCH\_5775MHz\_Ant1\_NTNV



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## 2.2 6dB BW

### 2.2.1 Test Result

| Mode             | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) |            | Verdict |
|------------------|---------|-----------------|-----|---------------------|------------|---------|
|                  |         |                 |     | Result              | Limit      |         |
| 802.11a          | MIMO    | 5745            | 1   | 15.145              | $\geq 0.5$ | Pass    |
|                  |         | 5785            | 1   | 15.150              | $\geq 0.5$ | Pass    |
|                  |         | 5825            | 1   | 15.162              | $\geq 0.5$ | Pass    |
| 802.11n (HT20)   | MIMO    | 5745            | 1   | 16.331              | $\geq 0.5$ | Pass    |
|                  |         | 5785            | 1   | 16.561              | $\geq 0.5$ | Pass    |
|                  |         | 5825            | 1   | 16.540              | $\geq 0.5$ | Pass    |
| 802.11n (HT40)   | MIMO    | 5755            | 1   | 35.167              | $\geq 0.5$ | Pass    |
|                  |         | 5795            | 1   | 35.154              | $\geq 0.5$ | Pass    |
| 802.11ac (VHT20) | MIMO    | 5745            | 1   | 16.539              | $\geq 0.5$ | Pass    |
|                  |         | 5785            | 1   | 16.305              | $\geq 0.5$ | Pass    |
|                  |         | 5825            | 1   | 16.546              | $\geq 0.5$ | Pass    |
| 802.11ac (VHT40) | MIMO    | 5755            | 1   | 35.153              | $\geq 0.5$ | Pass    |
|                  |         | 5795            | 1   | 35.159              | $\geq 0.5$ | Pass    |
| 802.11ac (VHT80) | MIMO    | 5775            | 1   | 75.096              | $\geq 0.5$ | Pass    |

Note: For the tests were conducted in all transmitted mode (including ANT1, ANT2 and MIMO) and only the worst-case ANT1 is recorded in the test report.



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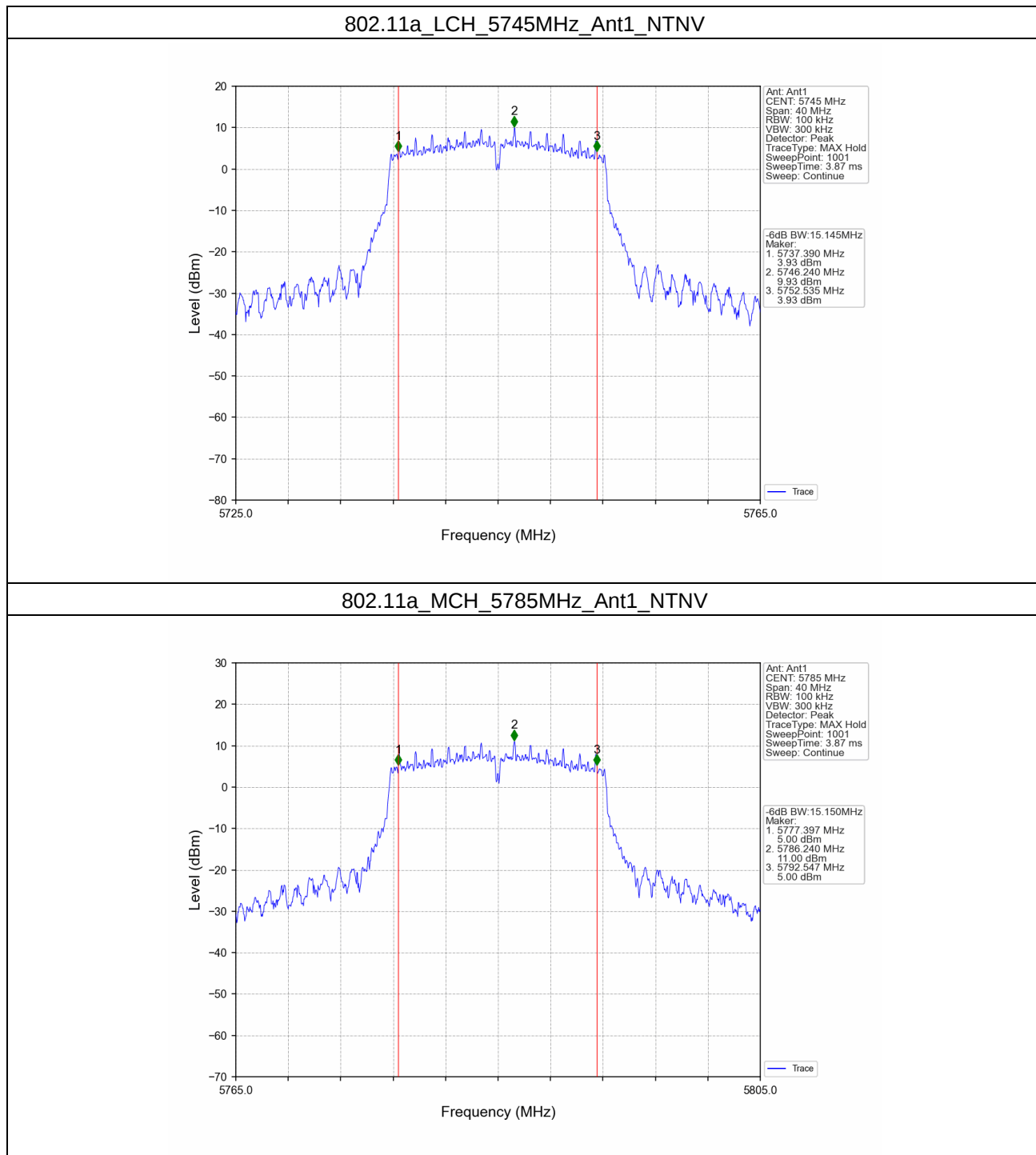
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### 2.2.2 Test Graph



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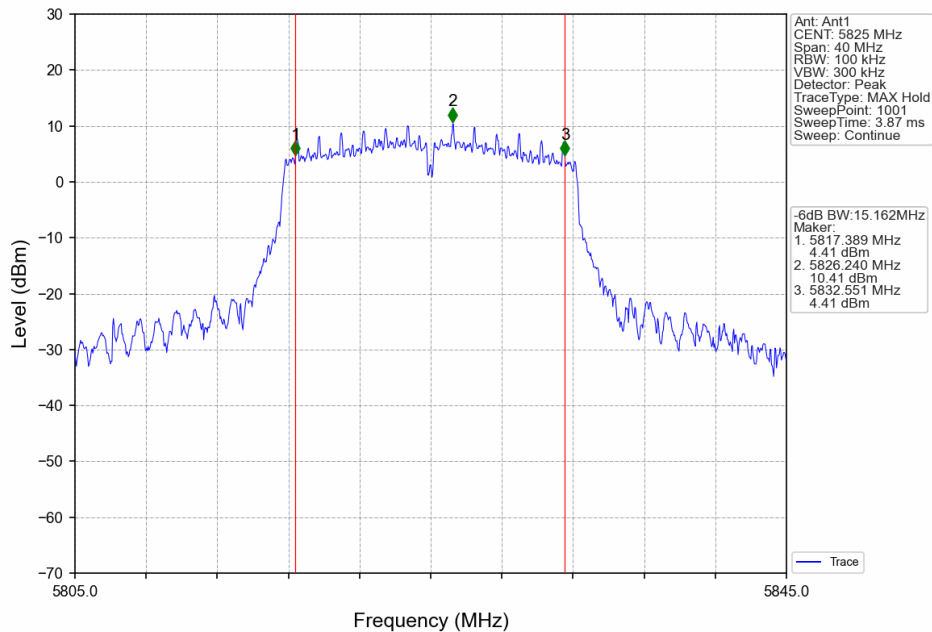
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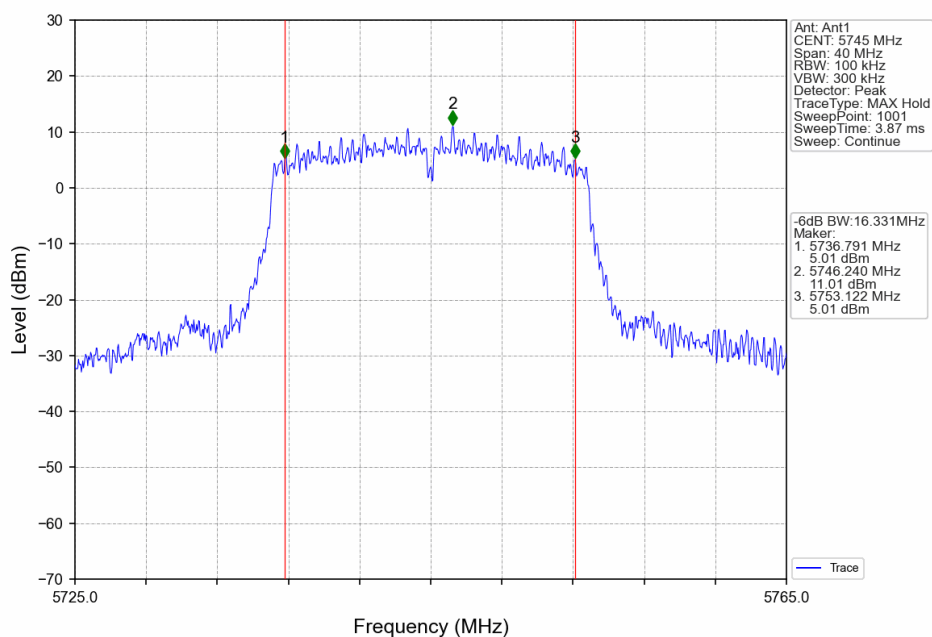
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802.11a\_HCH\_5825MHz\_Ant1\_NTNV



802.11n(HT20)\_LCH\_5745MHz\_Ant1\_NTNV



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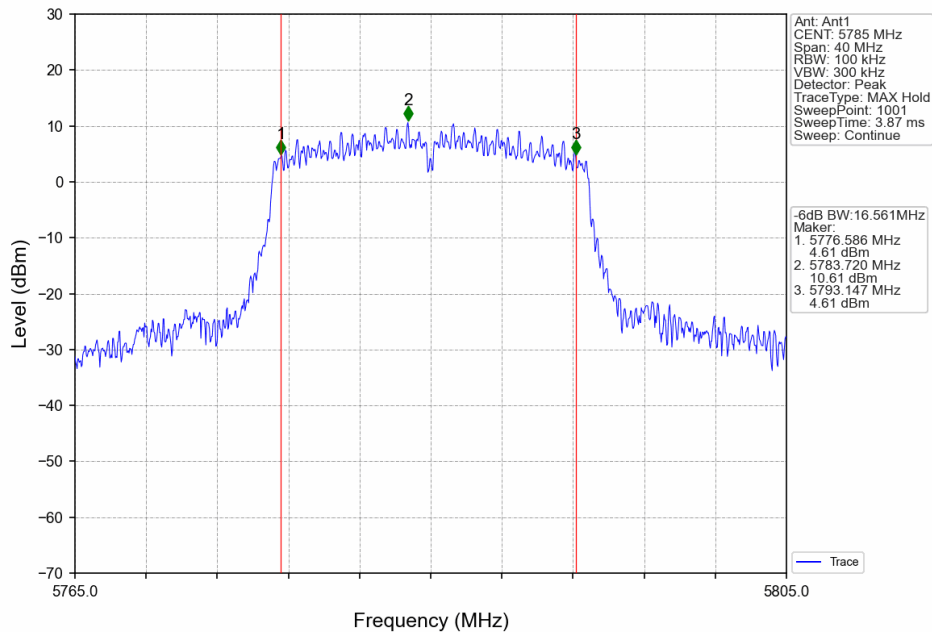
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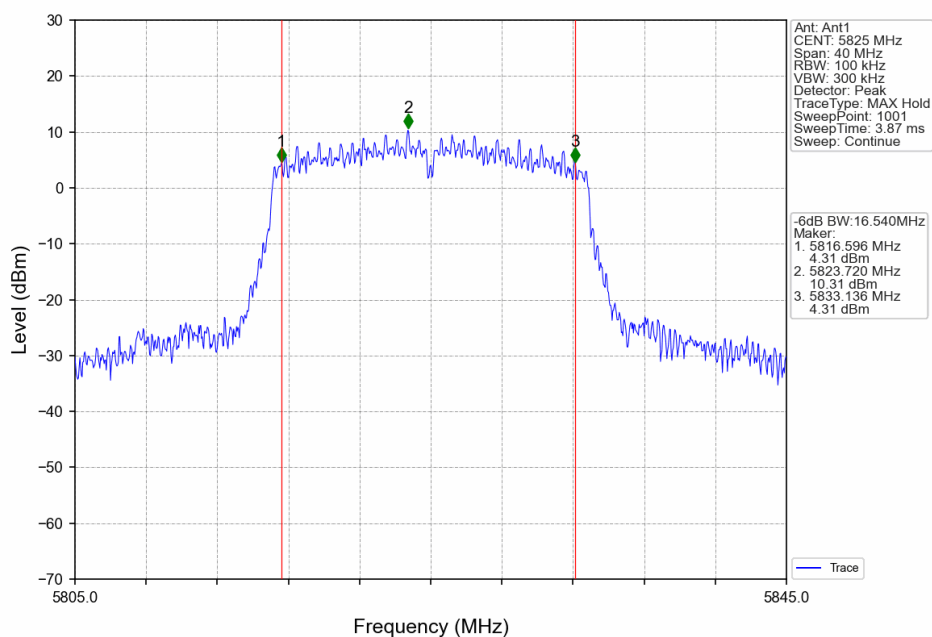
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### 802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



### 802.11n(HT20)\_HCH\_5825MHz\_Ant1\_NTNV



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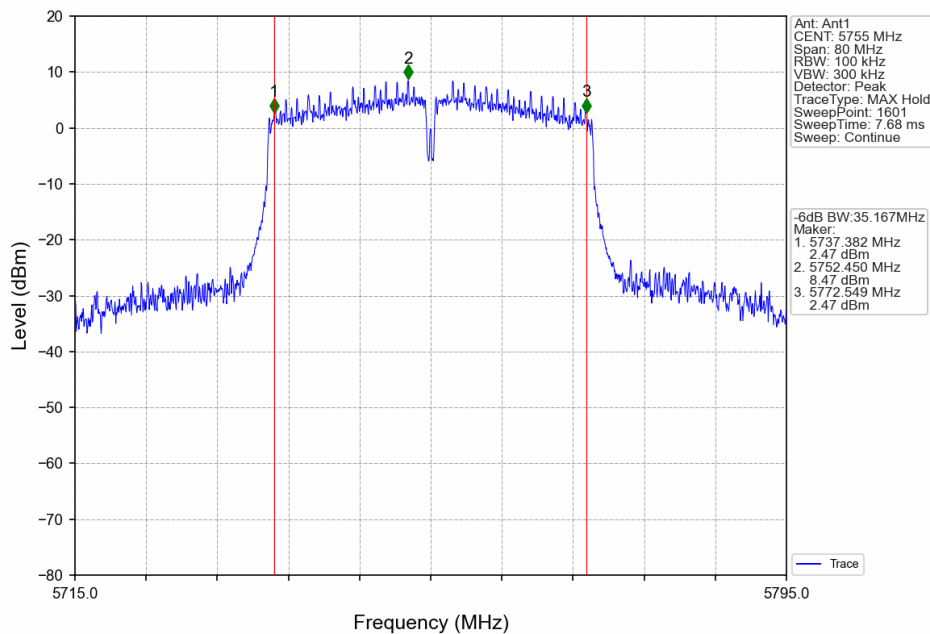
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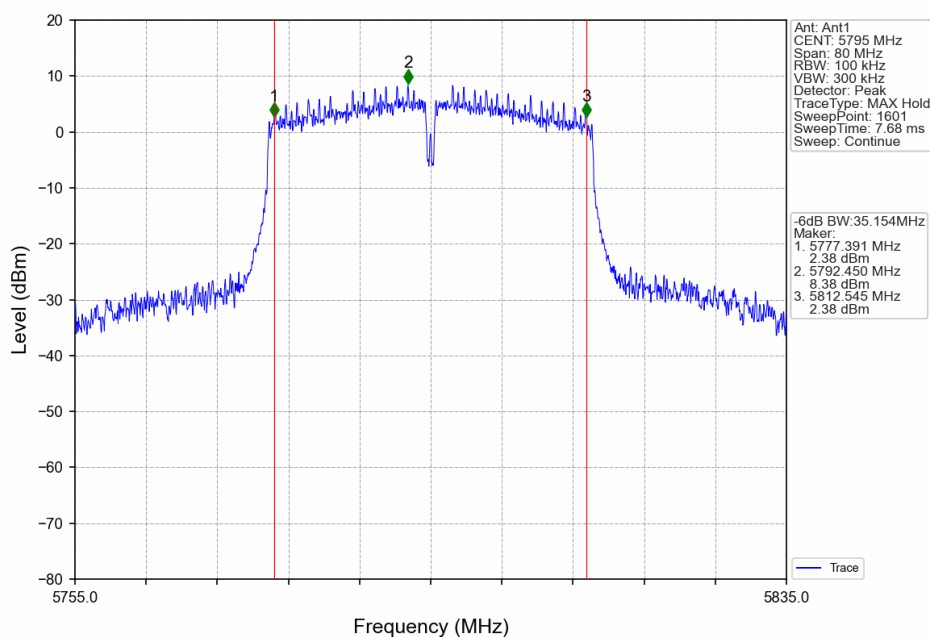
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### 802.11n(HT40)\_LCH\_5755MHz\_Ant1\_NTNV



### 802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



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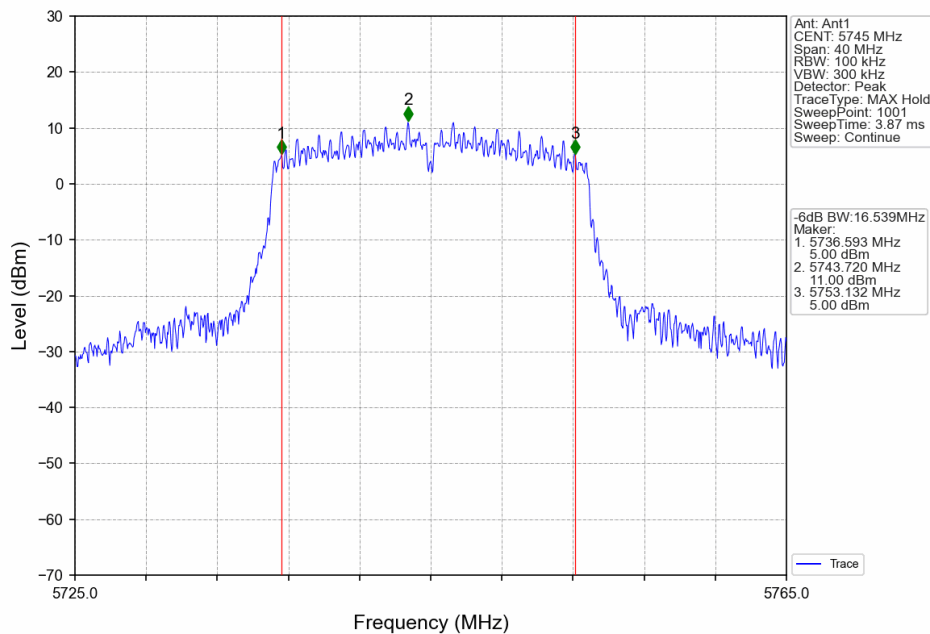
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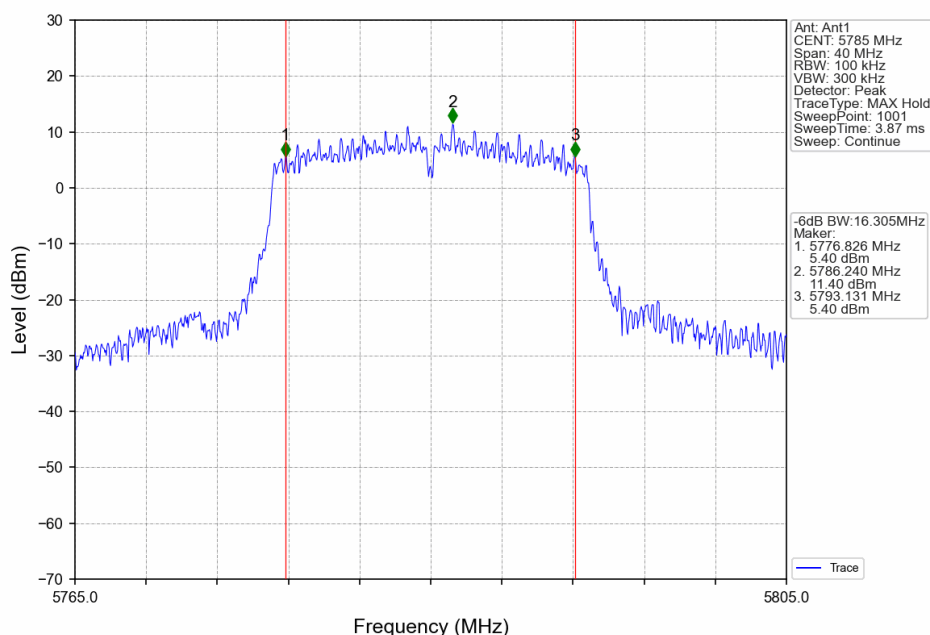
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### 802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



### 802.11ac(VHT20)\_MCH\_5785MHz\_Ant1\_NTNV



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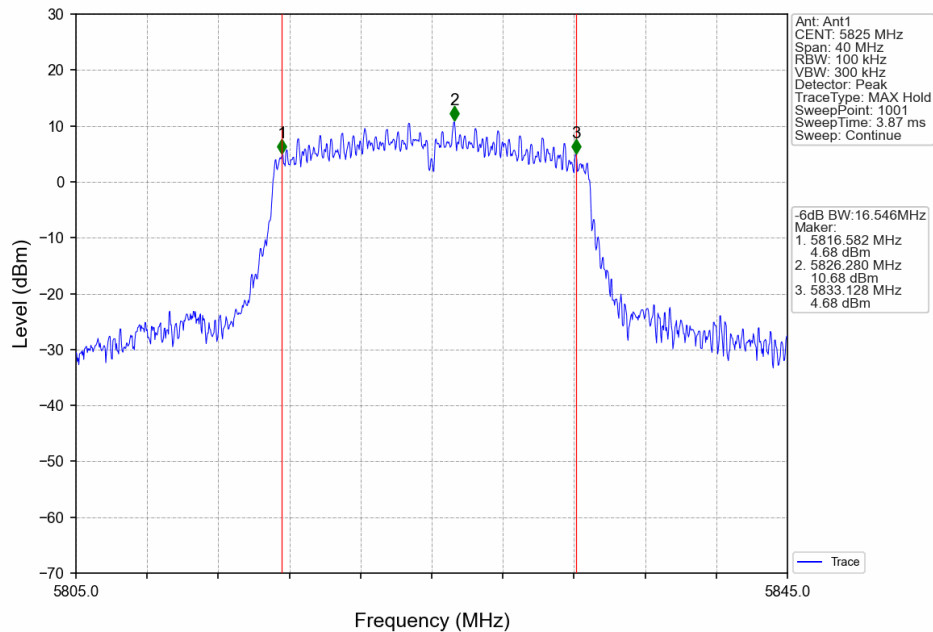
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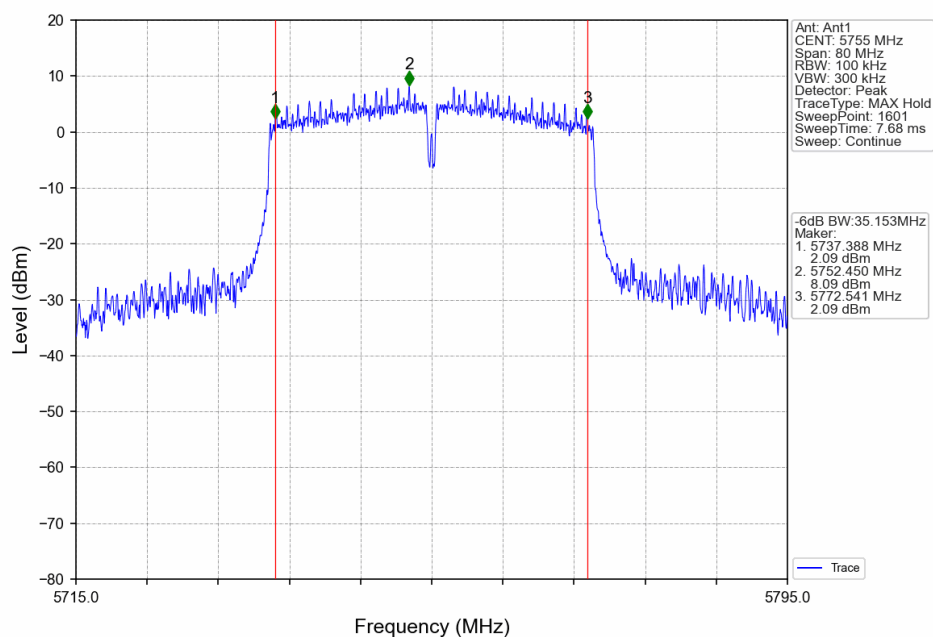
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### 802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



### 802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



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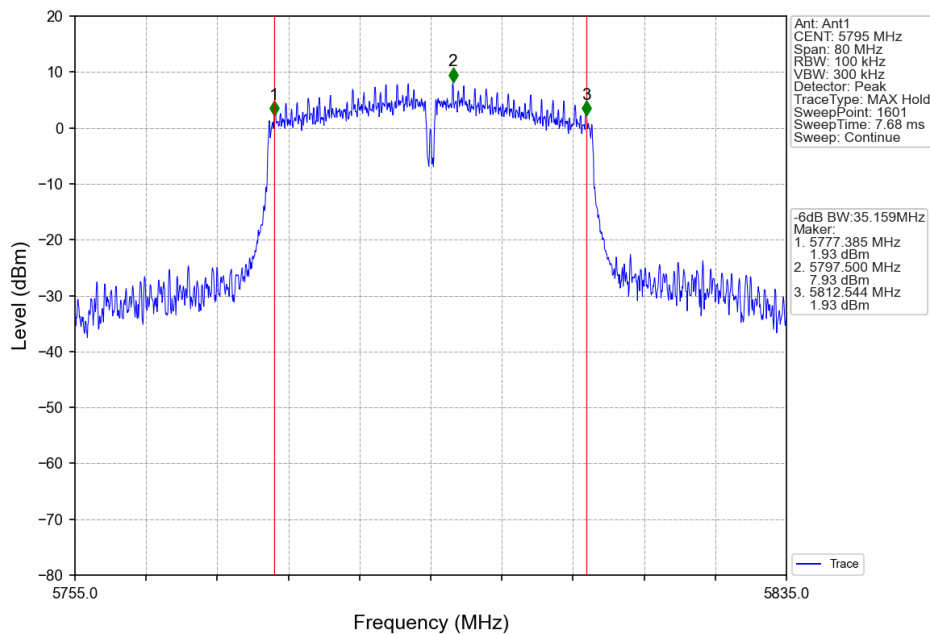
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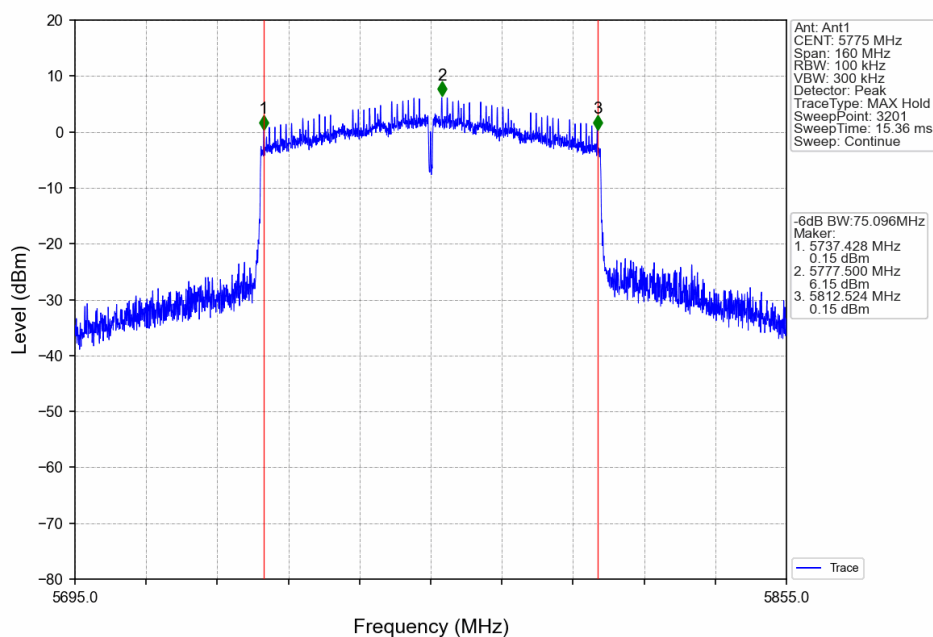
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802.11ac(VHT40)\_HCH\_5795MHz\_Ant1\_NTNV



802.11ac(VHT80)\_MCH\_5775MHz\_Ant1\_NTNV



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### 2.3 26dB BW

#### 2.3.1 Test Result

| Mode             | TX Type | Frequency (MHz) | ANT | 26dB Bandwidth (MHz) | Verdict |
|------------------|---------|-----------------|-----|----------------------|---------|
|                  |         |                 |     | Result               |         |
| 802.11a          | MIMO    | 5180            | 1   | 19.475               | Pass    |
|                  |         | 5200            | 1   | 19.491               | Pass    |
|                  |         | 5240            | 1   | 19.373               | Pass    |
|                  |         | 5260            | 1   | 19.539               | Pass    |
|                  |         | 5300            | 1   | 19.517               | Pass    |
|                  |         | 5320            | 1   | 19.430               | Pass    |
|                  |         | 5500            | 1   | 19.521               | Pass    |
|                  |         | 5580            | 1   | 19.507               | Pass    |
|                  |         | 5700            | 1   | 19.426               | Pass    |
| 802.11n (HT20)   | MIMO    | 5180            | 1   | 19.904               | Pass    |
|                  |         | 5200            | 1   | 19.892               | Pass    |
|                  |         | 5240            | 1   | 20.097               | Pass    |
|                  |         | 5260            | 1   | 20.026               | Pass    |
|                  |         | 5300            | 1   | 20.007               | Pass    |
|                  |         | 5320            | 1   | 19.943               | Pass    |
|                  |         | 5500            | 1   | 19.864               | Pass    |
|                  |         | 5580            | 1   | 19.987               | Pass    |
|                  |         | 5700            | 1   | 19.975               | Pass    |
| 802.11n (HT40)   | MIMO    | 5190            | 1   | 39.302               | Pass    |
|                  |         | 5230            | 1   | 39.411               | Pass    |
|                  |         | 5270            | 1   | 39.774               | Pass    |
|                  |         | 5310            | 1   | 39.369               | Pass    |
|                  |         | 5510            | 1   | 39.650               | Pass    |
|                  |         | 5550            | 1   | 39.586               | Pass    |
|                  |         | 5670            | 1   | 39.633               | Pass    |
| 802.11ac (VHT20) | MIMO    | 5180            | 1   | 19.919               | Pass    |
|                  |         | 5200            | 1   | 19.942               | Pass    |
|                  |         | 5240            | 1   | 20.050               | Pass    |
|                  |         | 5260            | 1   | 19.989               | Pass    |
|                  |         | 5300            | 1   | 19.845               | Pass    |
|                  |         | 5320            | 1   | 19.924               | Pass    |
|                  |         | 5500            | 1   | 19.956               | Pass    |



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|                     |      |      |   |        |      |
|---------------------|------|------|---|--------|------|
|                     |      | 5580 | 1 | 19.957 | Pass |
|                     |      | 5700 | 1 | 19.940 | Pass |
| 802.11ac<br>(VHT40) | MIMO | 5190 | 1 | 39.557 | Pass |
|                     |      | 5230 | 1 | 39.473 | Pass |
|                     |      | 5270 | 1 | 39.697 | Pass |
|                     |      | 5310 | 1 | 39.537 | Pass |
|                     |      | 5510 | 1 | 39.866 | Pass |
|                     |      | 5550 | 1 | 39.449 | Pass |
|                     |      | 5670 | 1 | 39.569 | Pass |
| 802.11ac<br>(VHT80) | MIMO | 5210 | 1 | 79.117 | Pass |
|                     |      | 5290 | 1 | 79.323 | Pass |
|                     |      | 5530 | 1 | 79.499 | Pass |
|                     |      | 5610 | 1 | 79.203 | Pass |

Note:For the tests were conducted in all transmitted mode(including ANT1, ANT2 and MIMO) and only the worst-case ANT1 is recorded in the test report.



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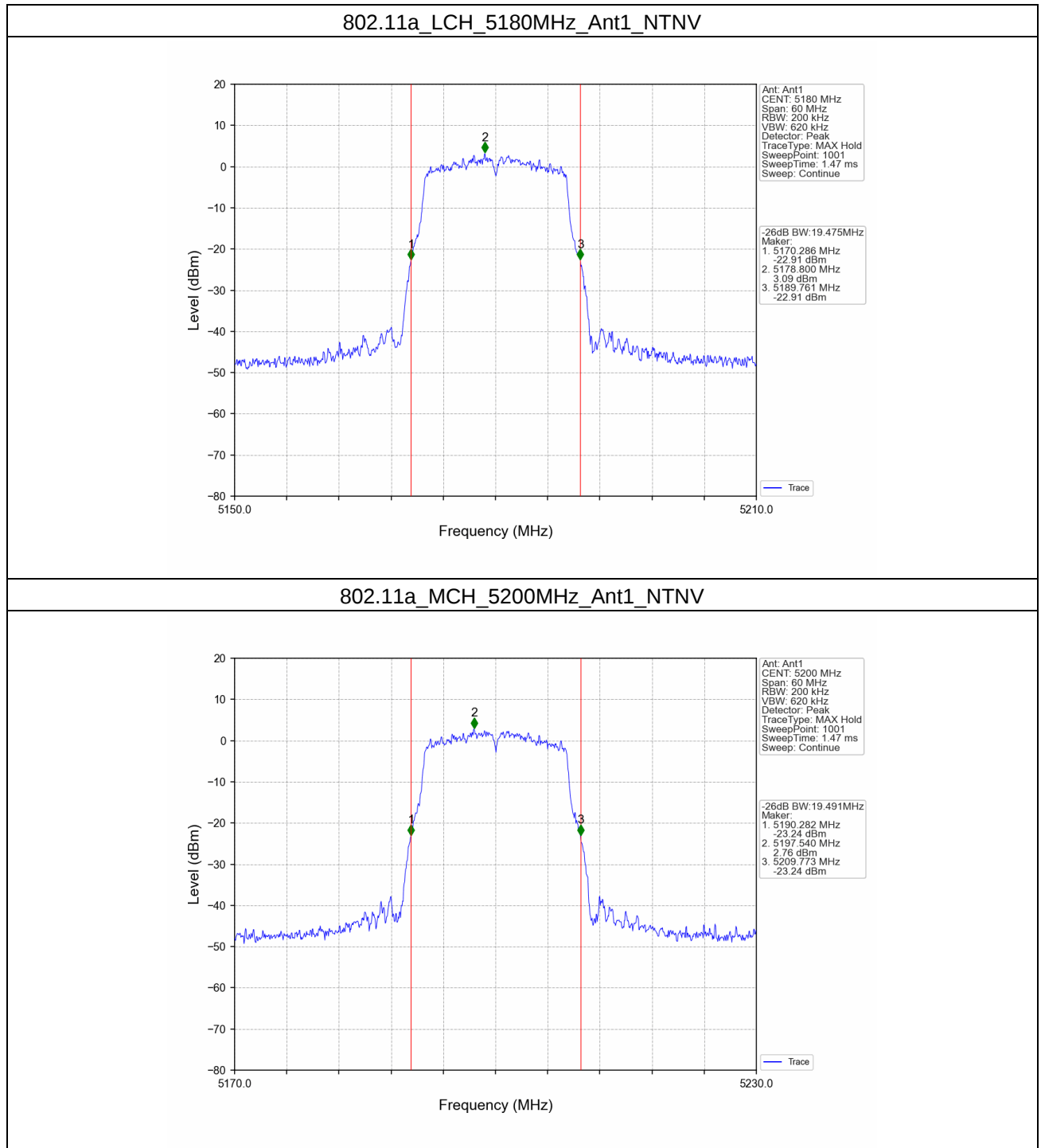
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### 2.3.2 Test Graph



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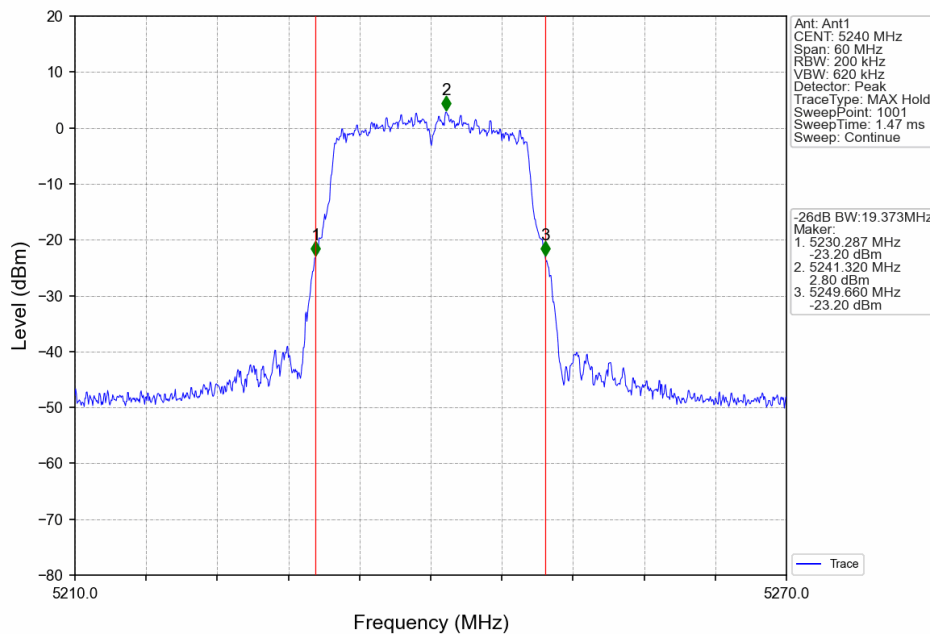
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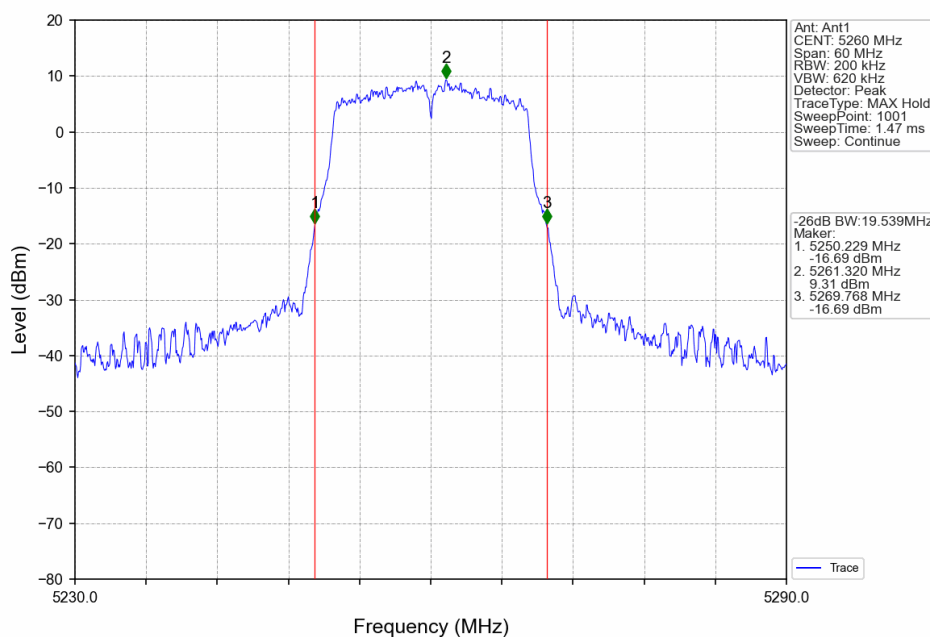
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802.11a\_LCH\_5260MHz\_Ant1\_NTNV



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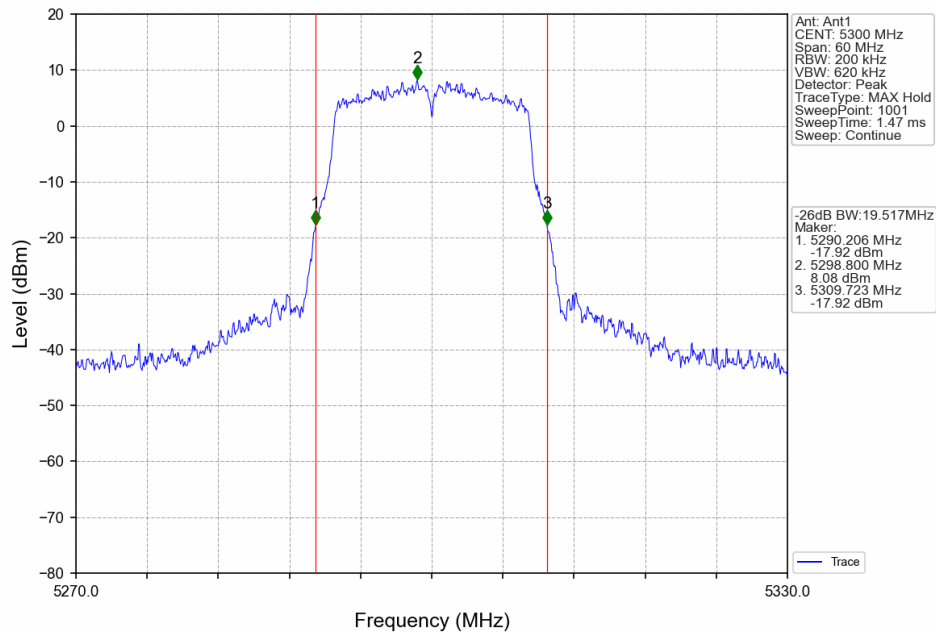
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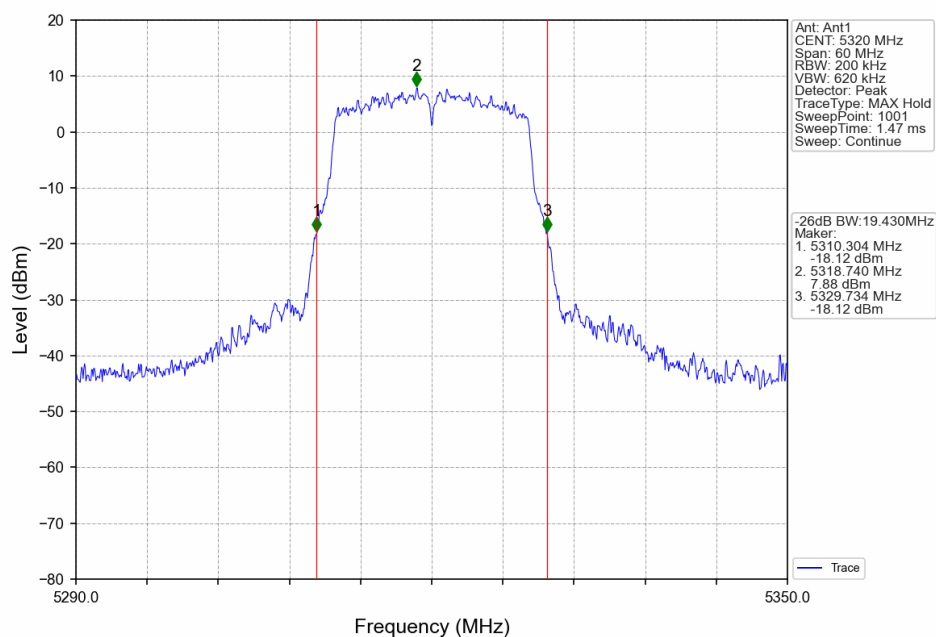
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802.11a\_HCH\_5320MHz\_Ant1\_NTNV



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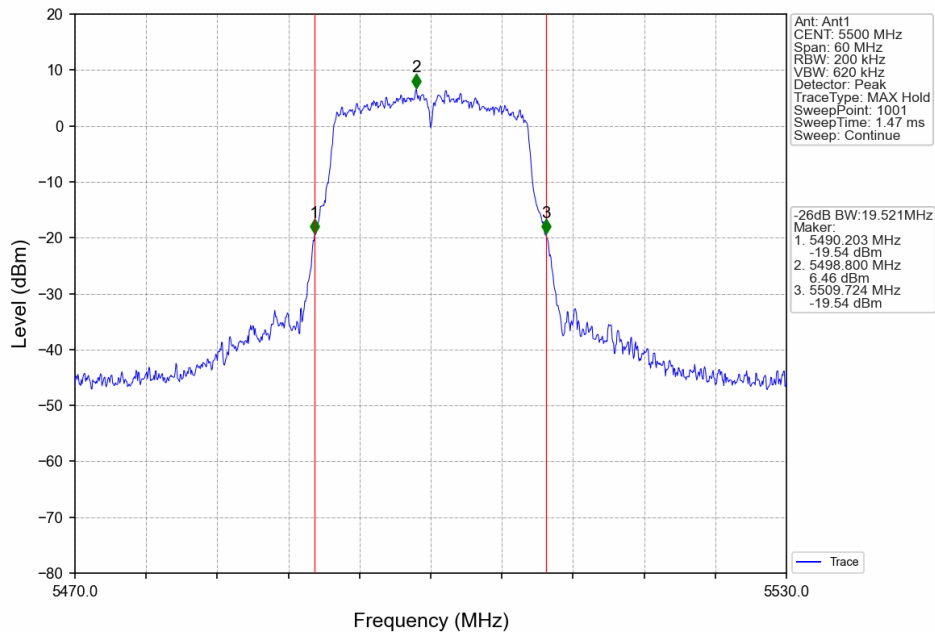
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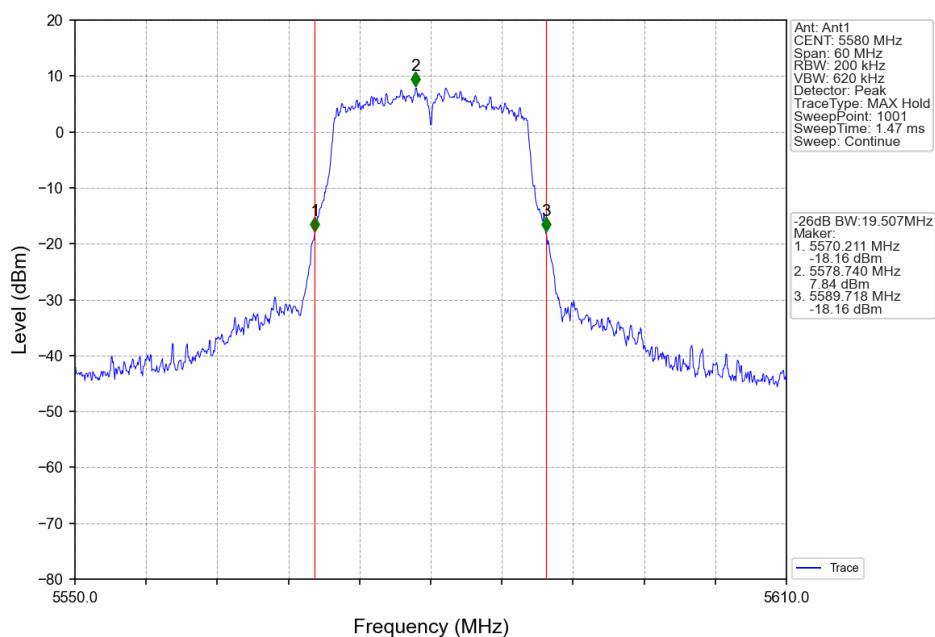
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802.11a\_LCH\_5500MHz\_Ant1\_NTNV



802.11a\_MCH\_5580MHz\_Ant1\_NTNV



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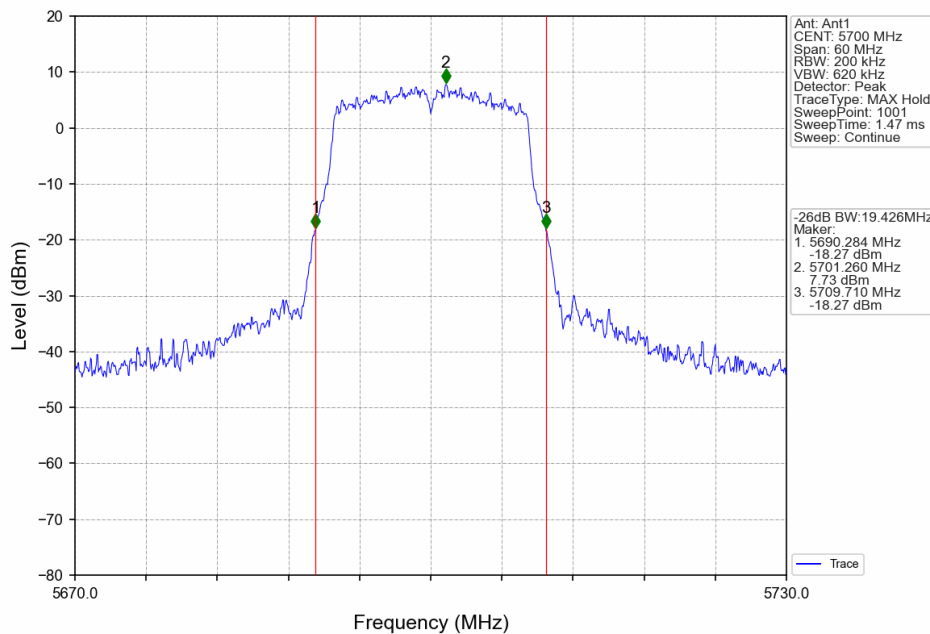
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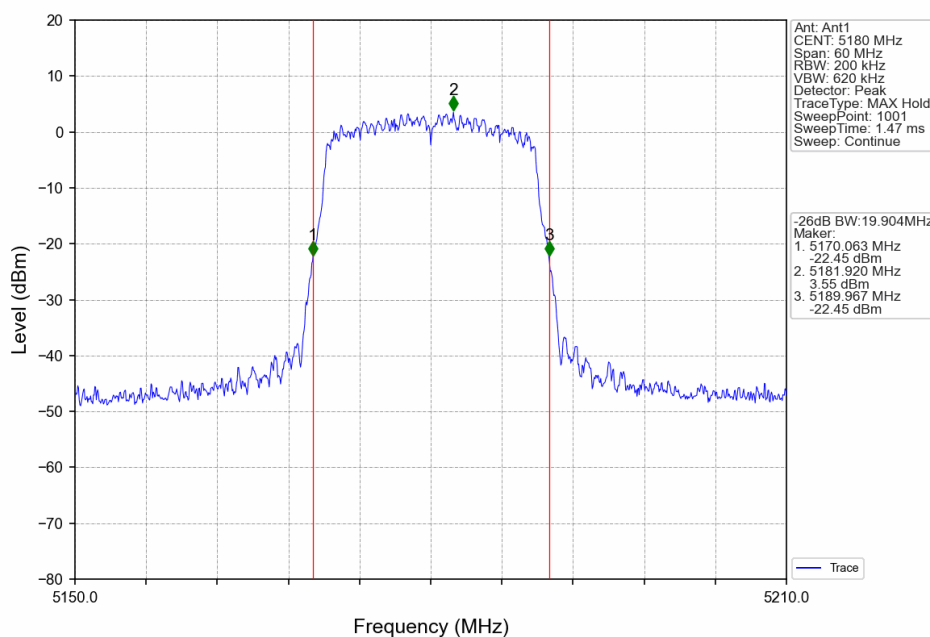
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802.11a\_HCH\_5700MHz\_Ant1\_NTNV



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



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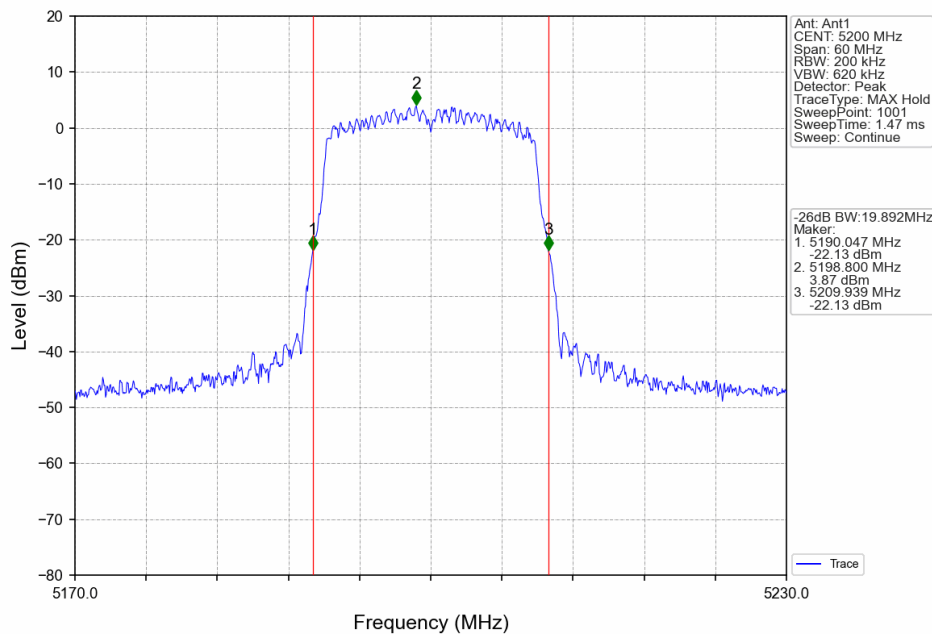
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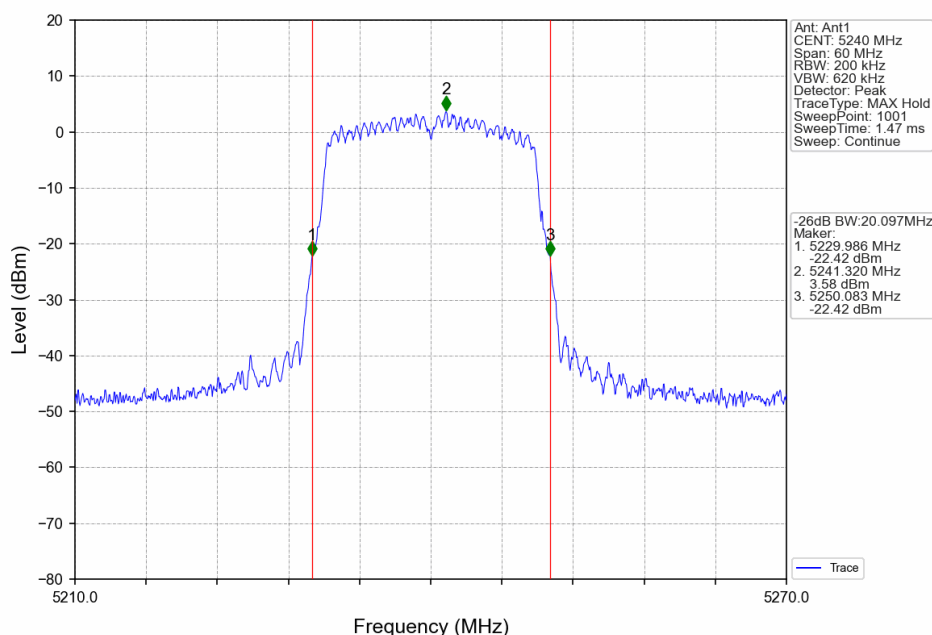
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### 802.11n(HT20)\_MCH\_5200MHz\_Ant1\_NTNV



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



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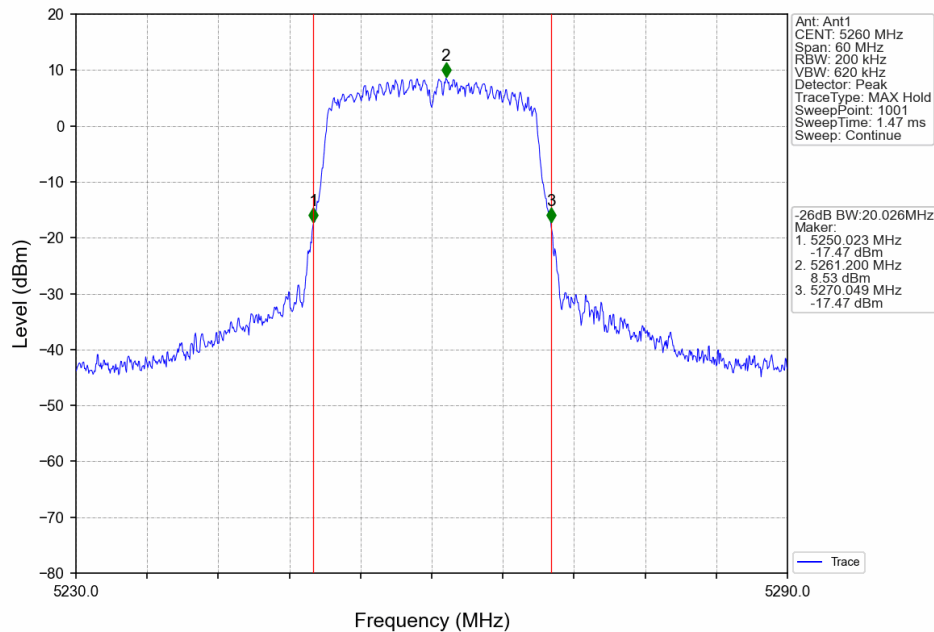
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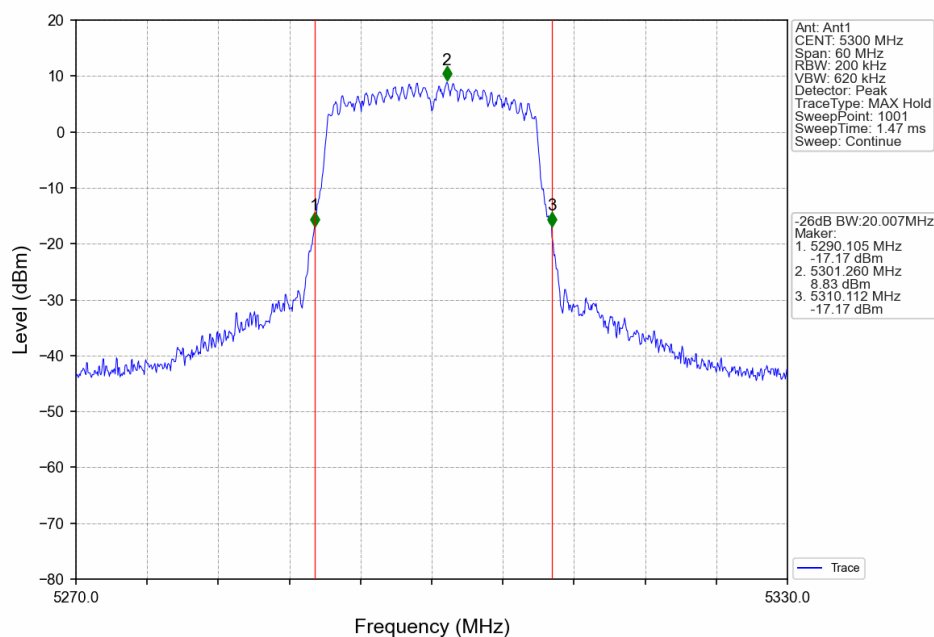
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802.11n(HT20)\_LCH\_5260MHz\_Ant1\_NTNV



802.11n(HT20)\_MCH\_5300MHz\_Ant1\_NTNV



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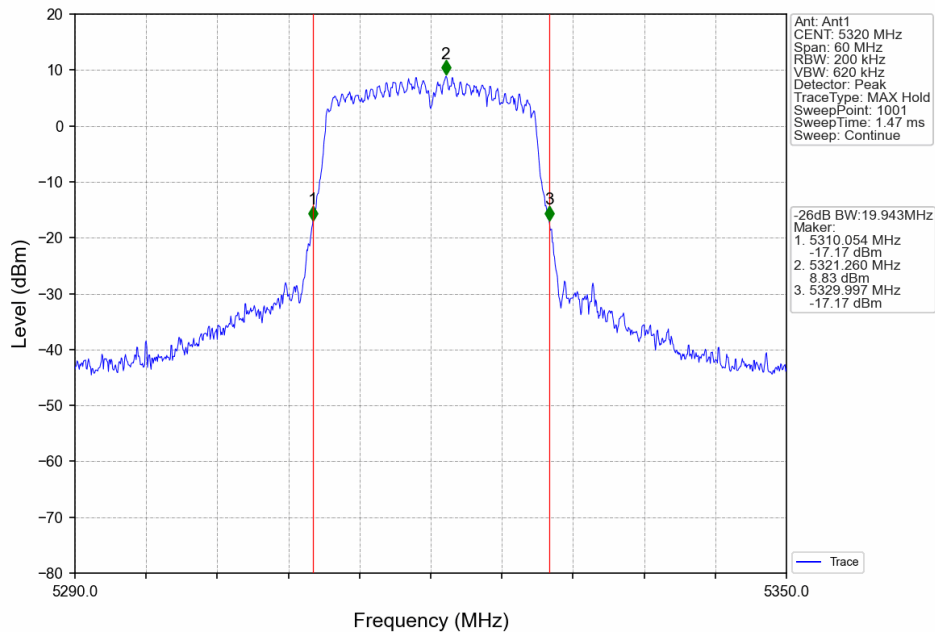
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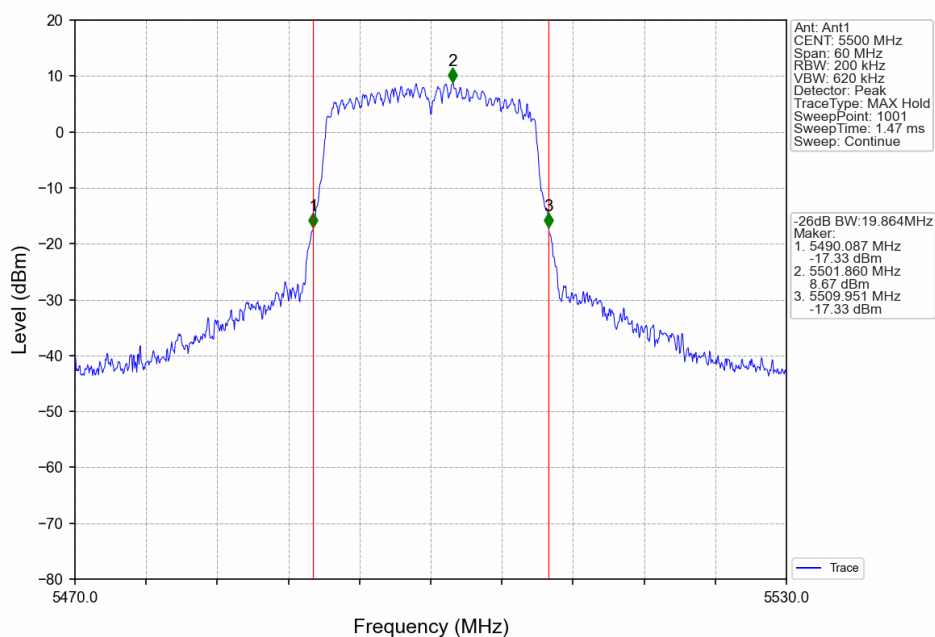
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### 802.11n(HT20)\_HCH\_5320MHz\_Ant1\_NTNV



### 802.11n(HT20)\_LCH\_5500MHz\_Ant1\_NTNV



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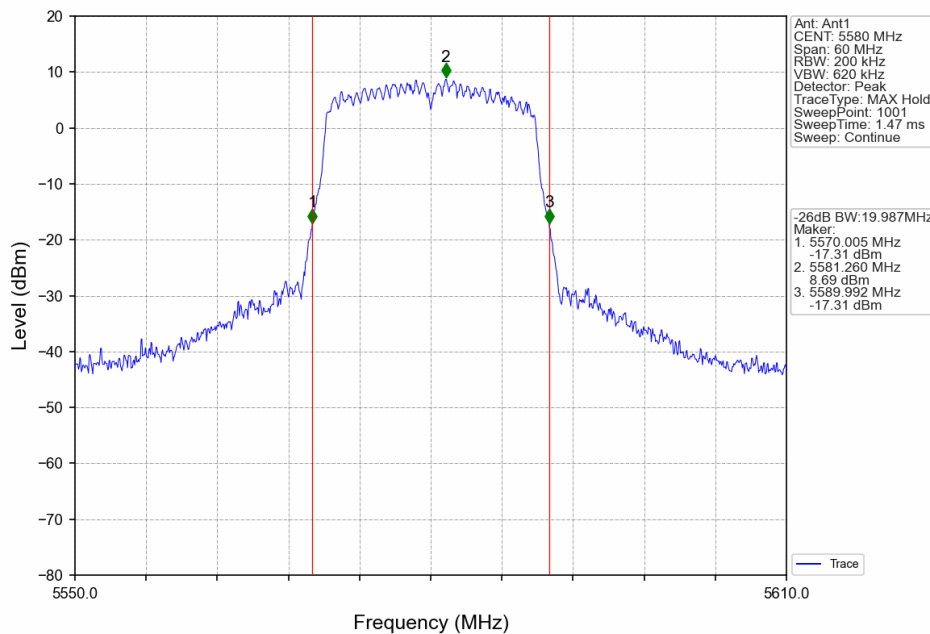
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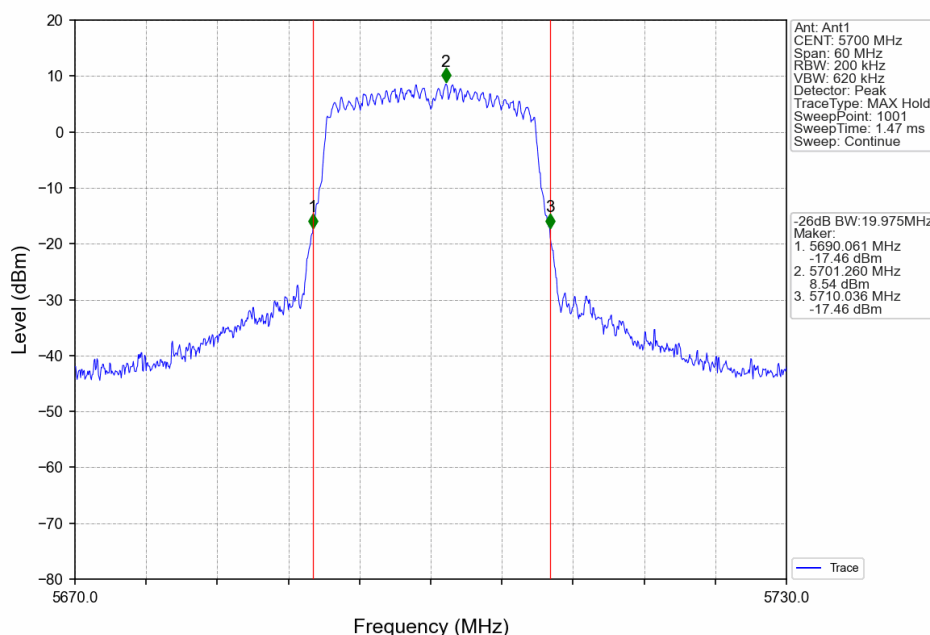
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### 802.11n(HT20)\_MCH\_5580MHz\_Ant1\_NTNV



### 802.11n(HT20)\_HCH\_5700MHz\_Ant1\_NTNV



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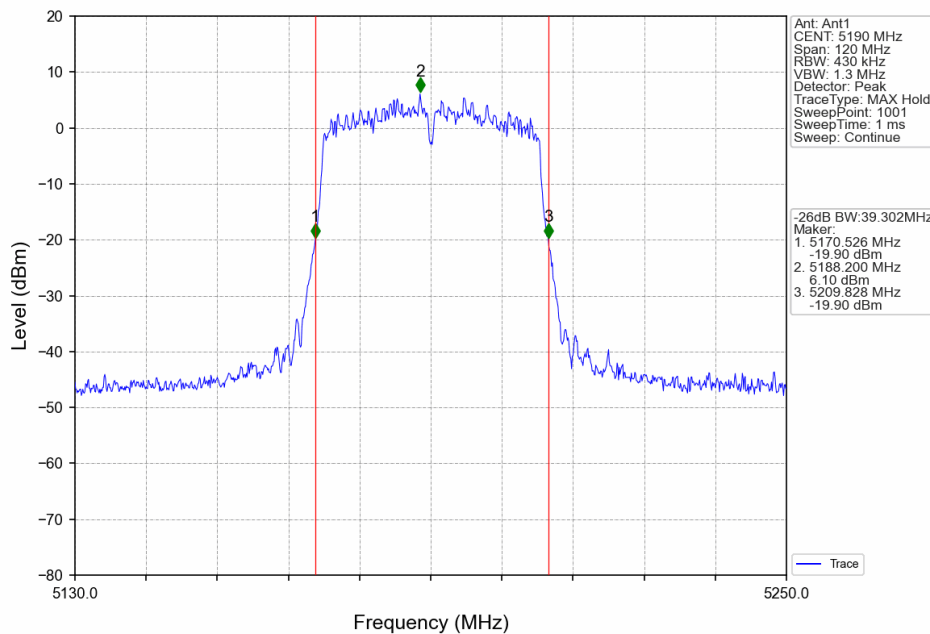
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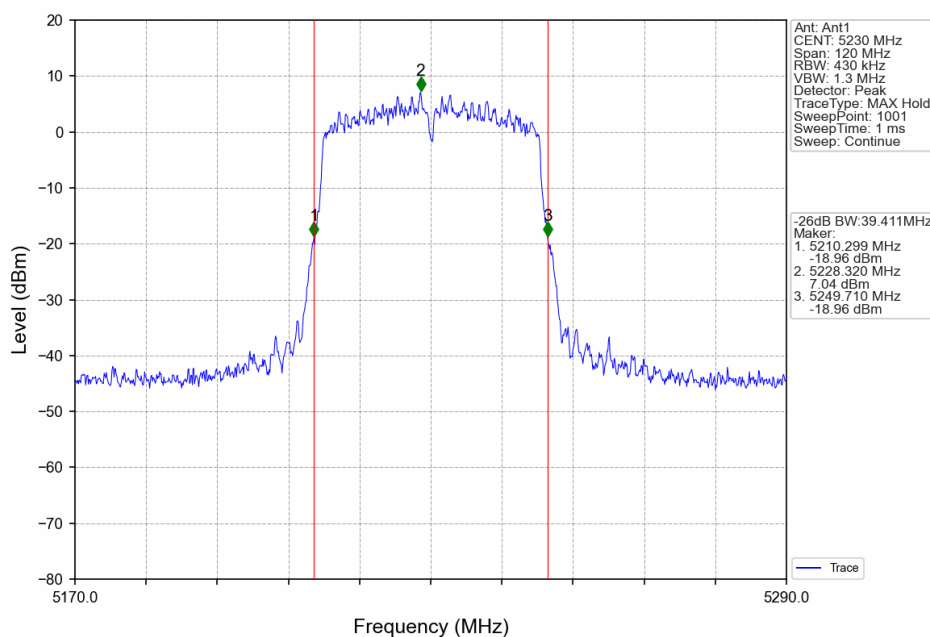
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### 802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



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



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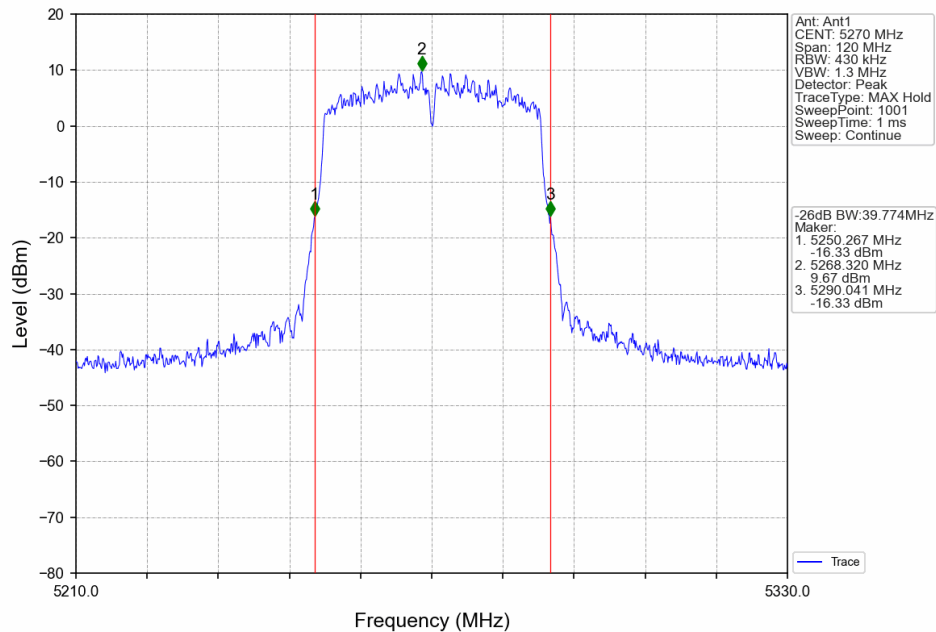
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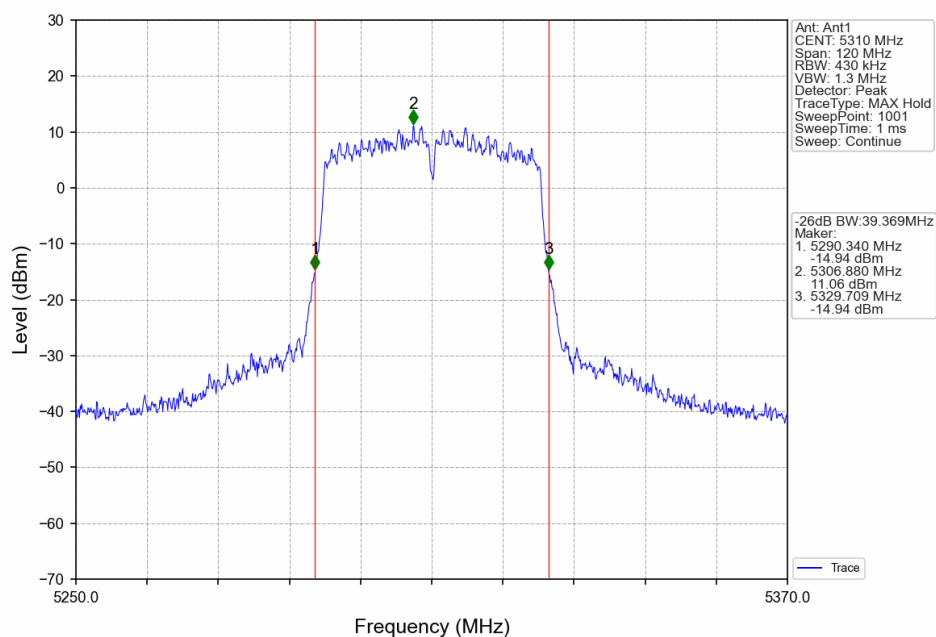
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### 802.11n(HT40)\_LCH\_5270MHz\_Ant1\_NTNV



### 802.11n(HT40)\_HCH\_5310MHz\_Ant1\_NTNV



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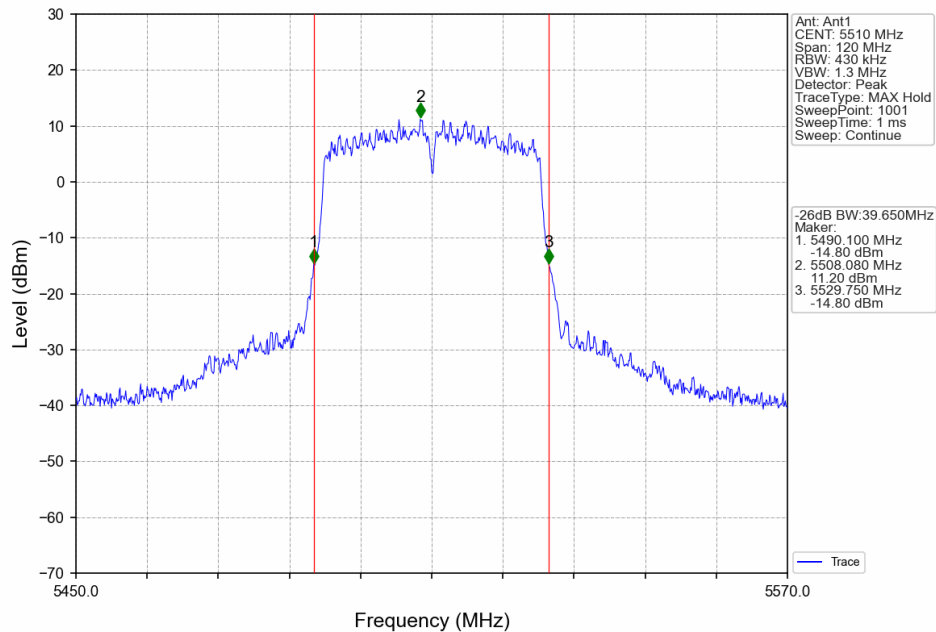
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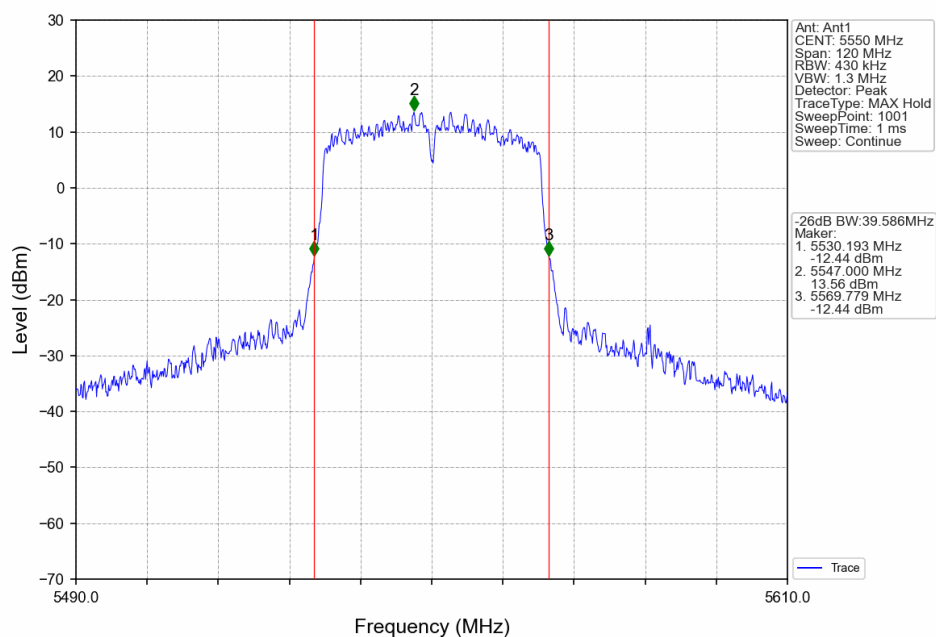
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### 802.11n(HT40)\_LCH\_5510MHz\_Ant1\_NTNV



### 802.11n(HT40)\_MCH\_5550MHz\_Ant1\_NTNV



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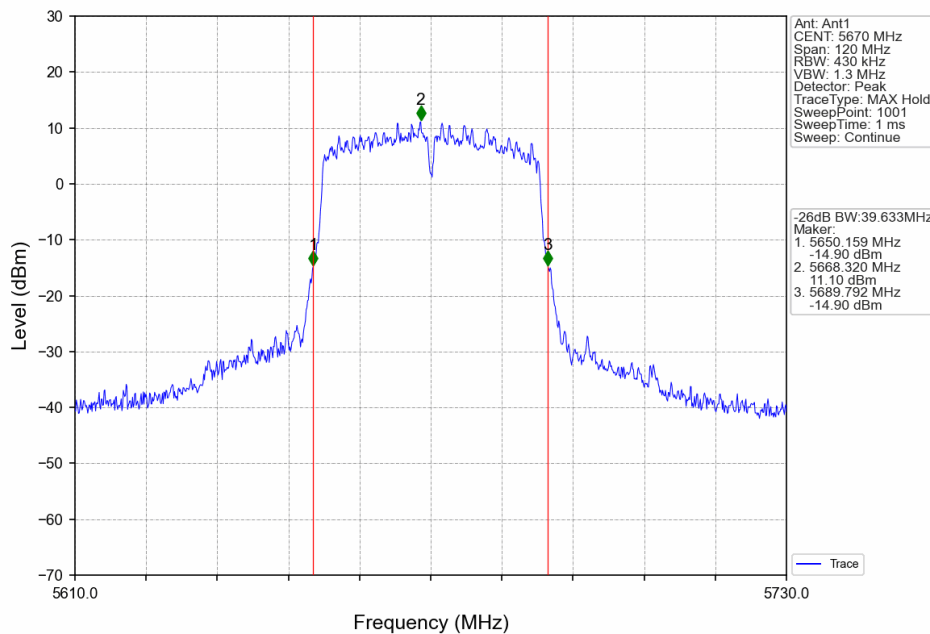
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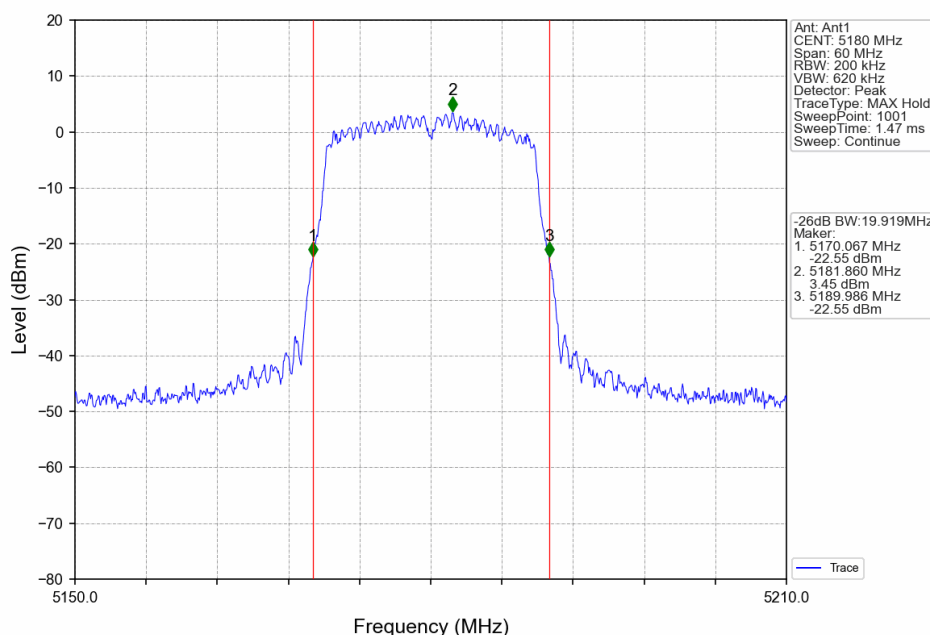
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### 802.11n(HT40)\_HCH\_5670MHz\_Ant1\_NTNV



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



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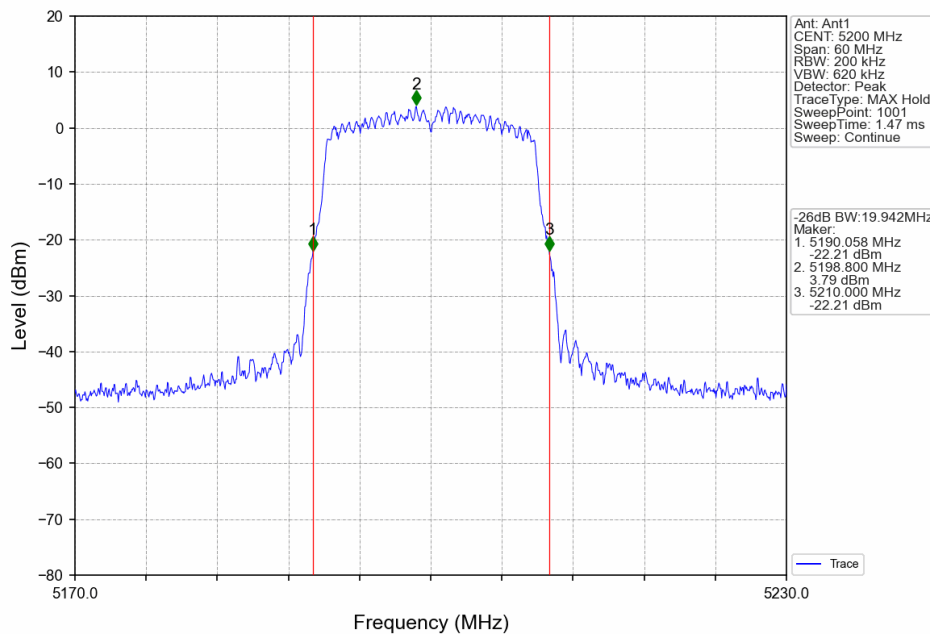
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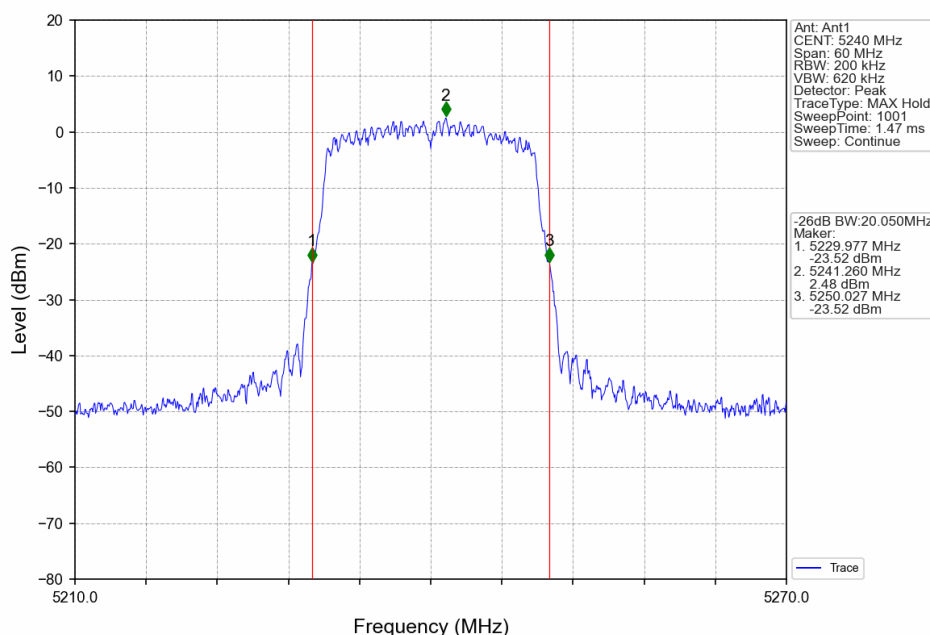
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### 802.11ac(VHT20)\_MCH\_5200MHz\_Ant1\_NTNV



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



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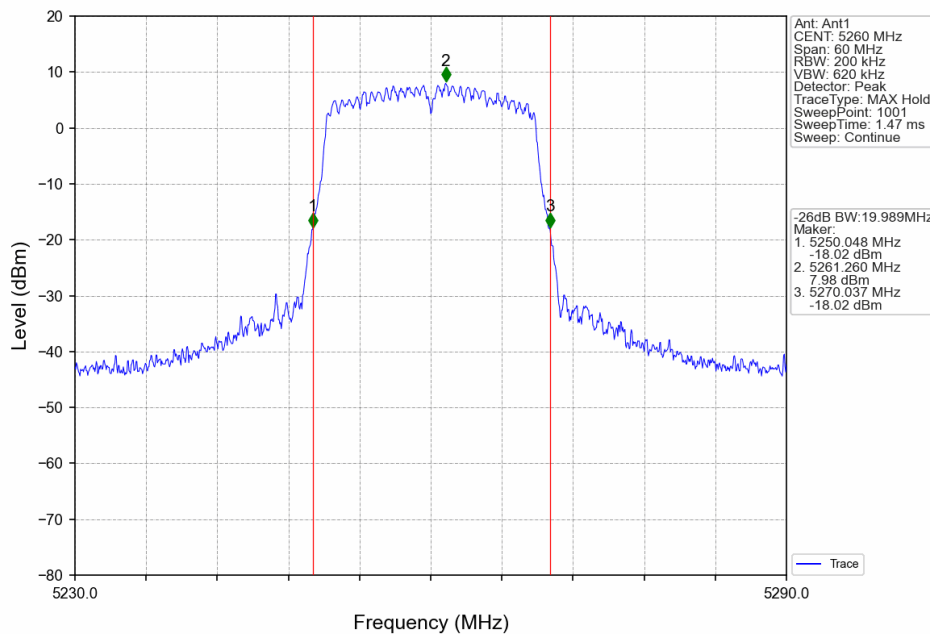
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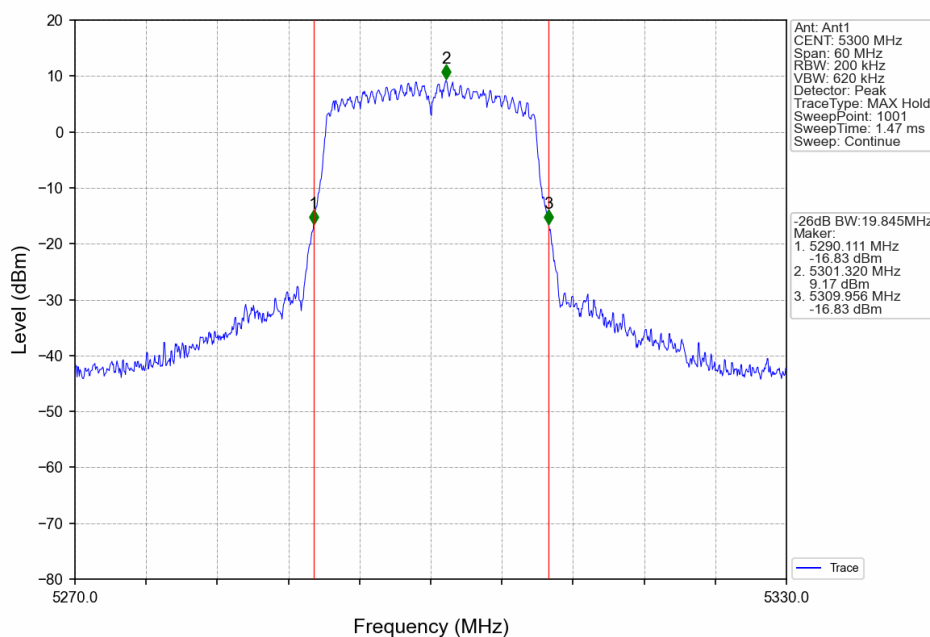
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### 802.11ac(VHT20)\_LCH\_5260MHz\_Ant1\_NTNV



### 802.11ac(VHT20)\_MCH\_5300MHz\_Ant1\_NTNV



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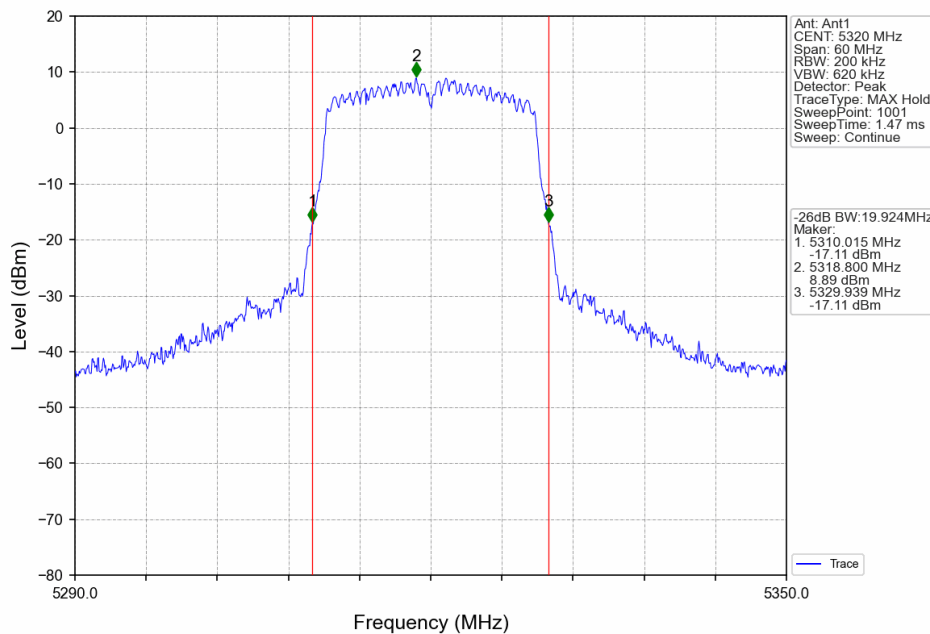
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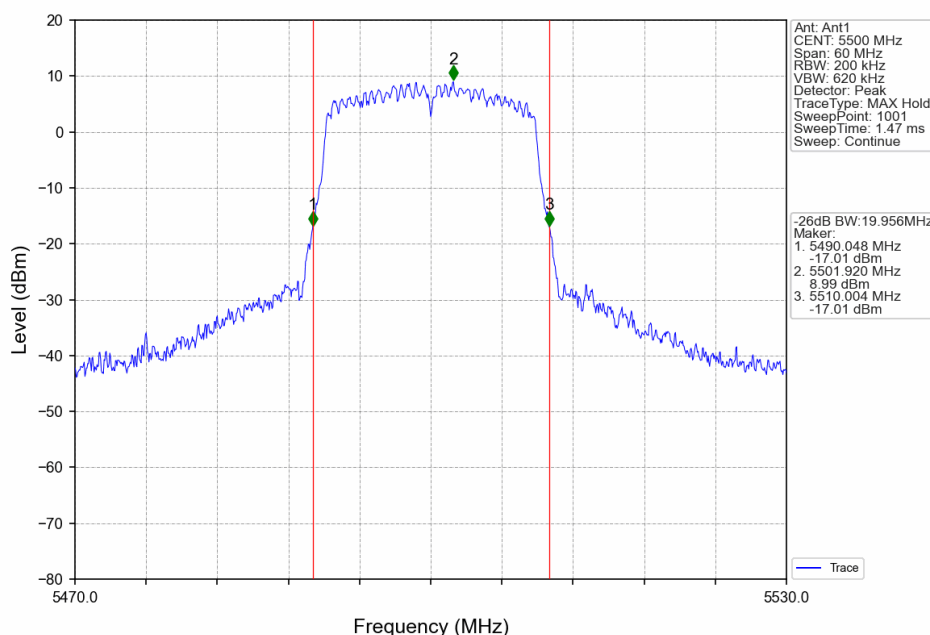
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### 802.11ac(VHT20)\_HCH\_5320MHz\_Ant1\_NTNV



### 802.11ac(VHT20)\_LCH\_5500MHz\_Ant1\_NTNV



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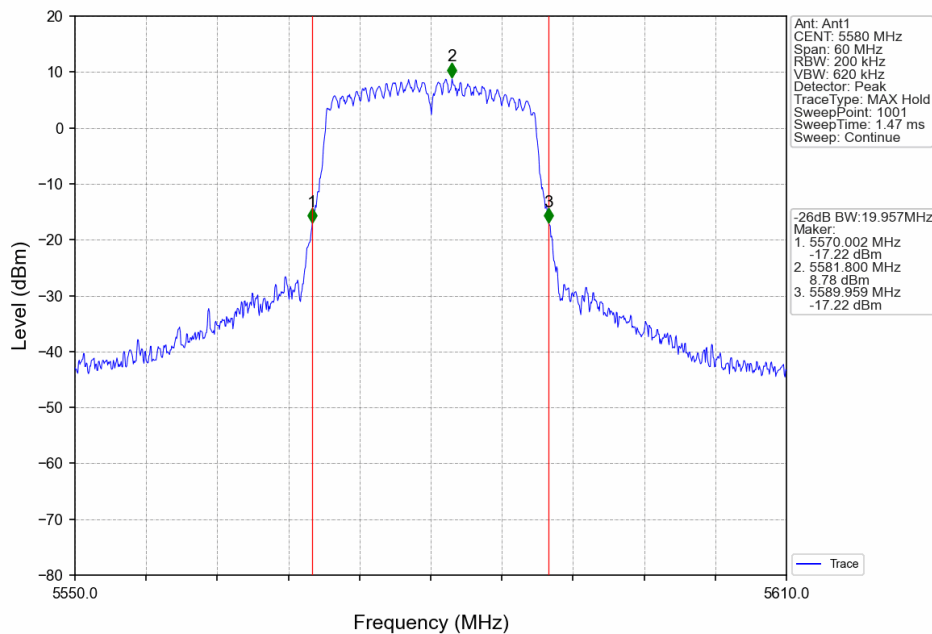
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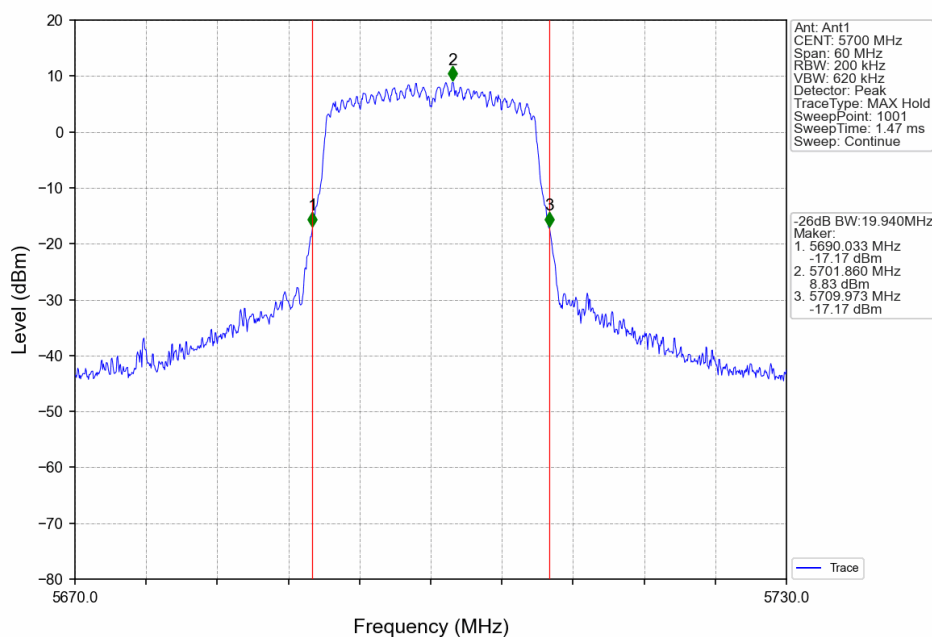
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### 802.11ac(VHT20)\_MCH\_5580MHz\_Ant1\_NTNV



### 802.11ac(VHT20)\_HCH\_5700MHz\_Ant1\_NTNV



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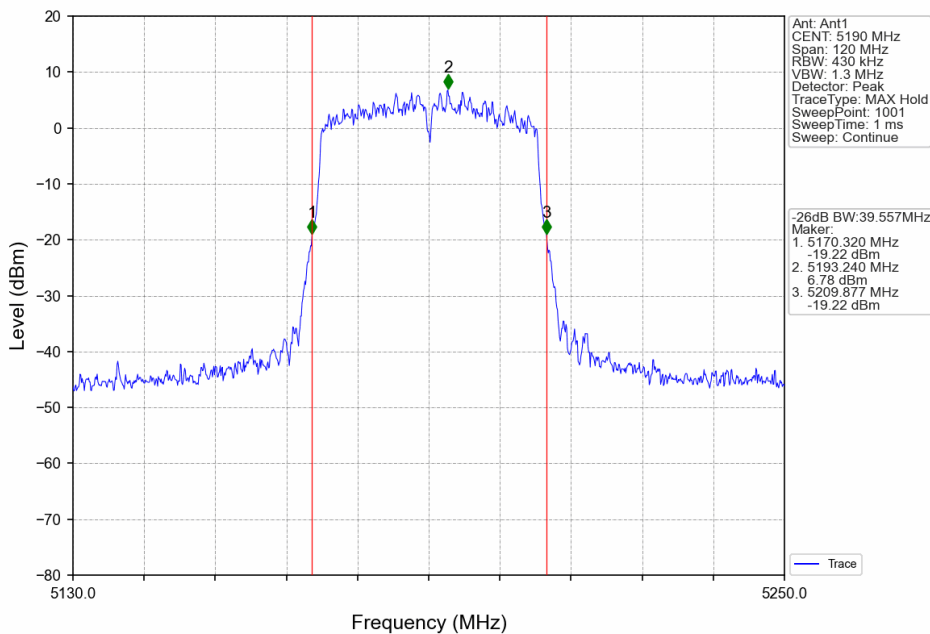
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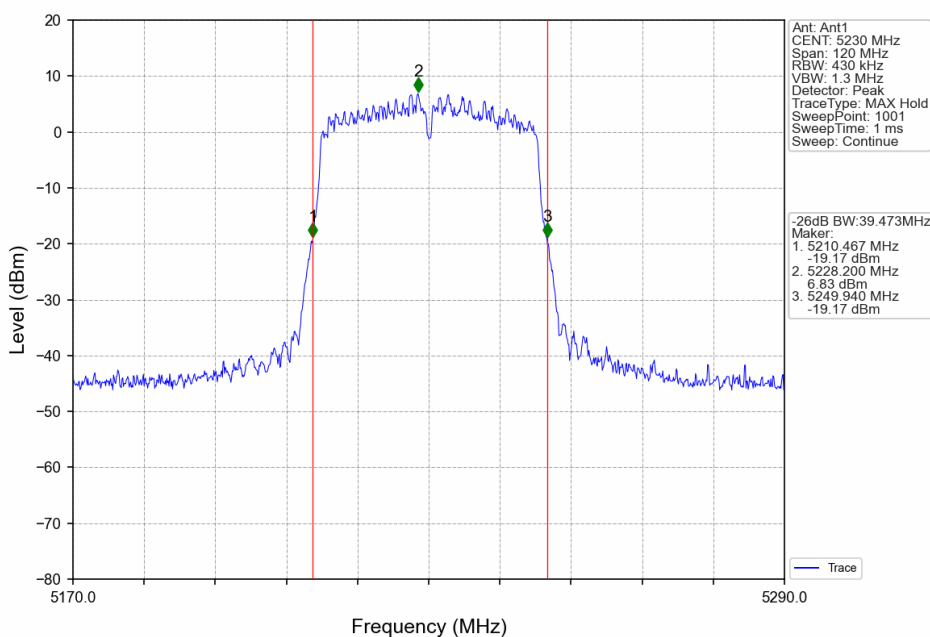
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### 802.11ac(VHT40)\_LCH\_5190MHz\_Ant1\_NTNV



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



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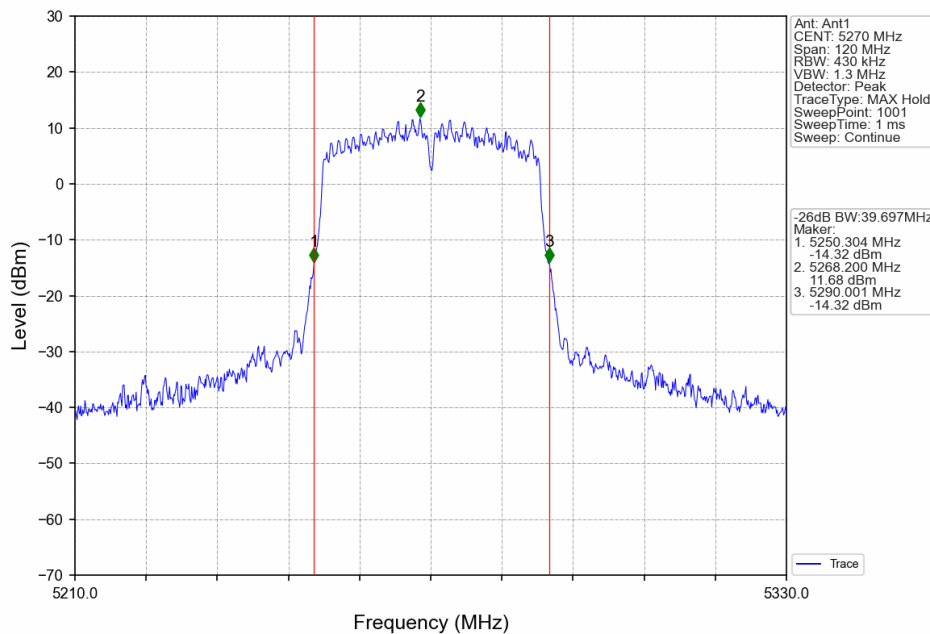
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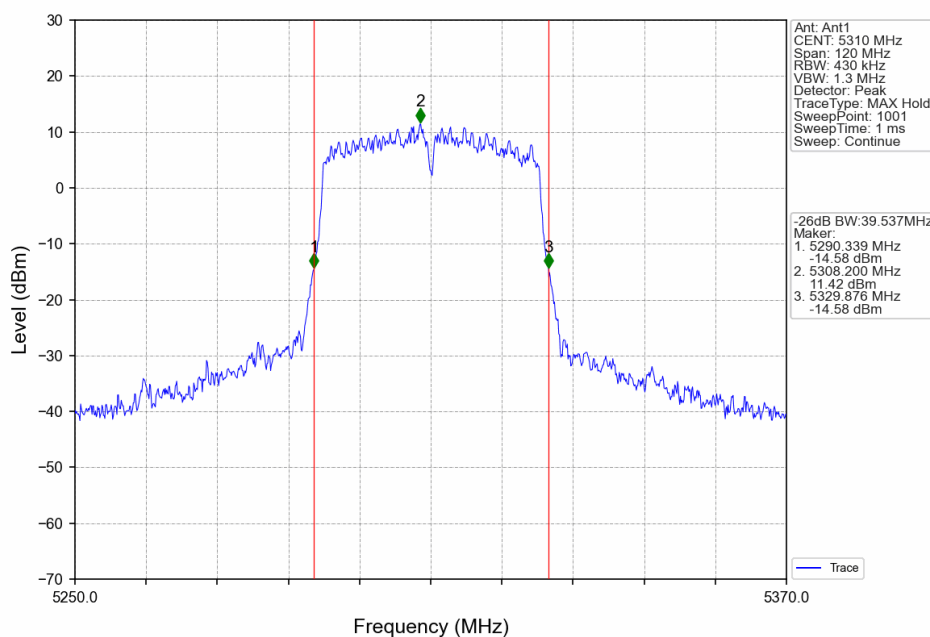
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### 802.11ac(VHT40)\_LCH\_5270MHz\_Ant1\_NTNV



### 802.11ac(VHT40)\_HCH\_5310MHz\_Ant1\_NTNV



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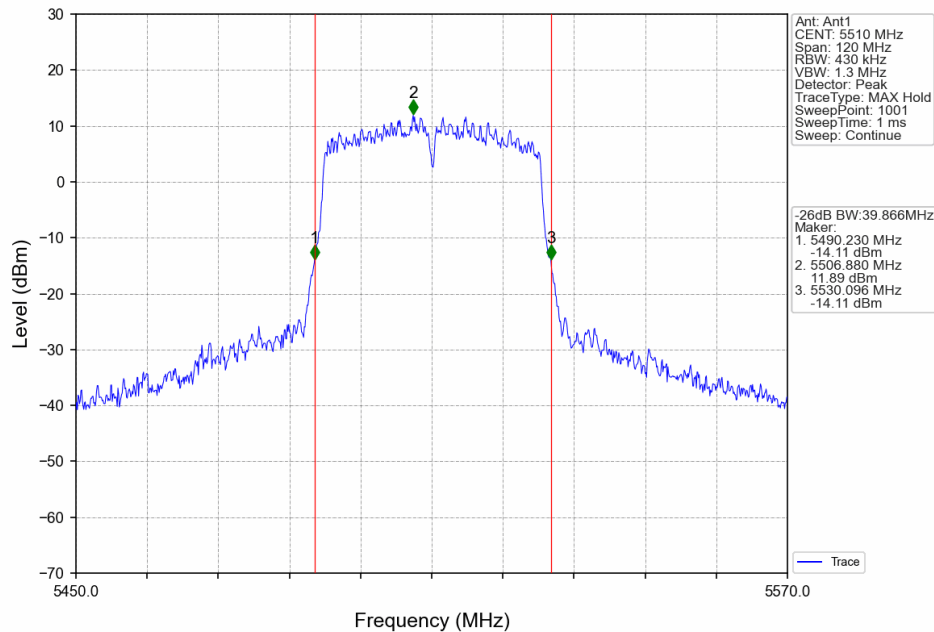
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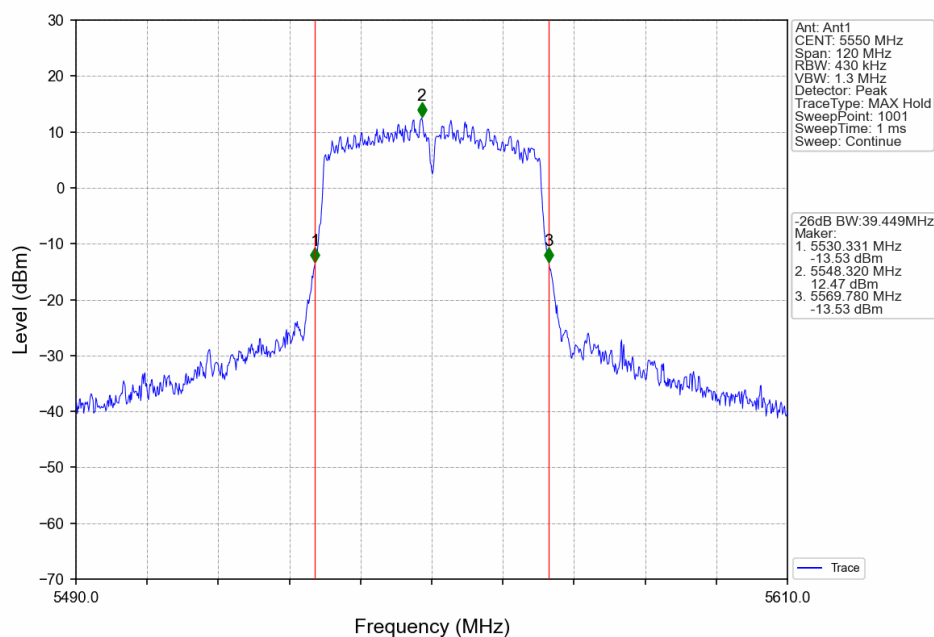
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### 802.11ac(VHT40)\_LCH\_5510MHz\_Ant1\_NTNV



### 802.11ac(VHT40)\_MCH\_5550MHz\_Ant1\_NTNV



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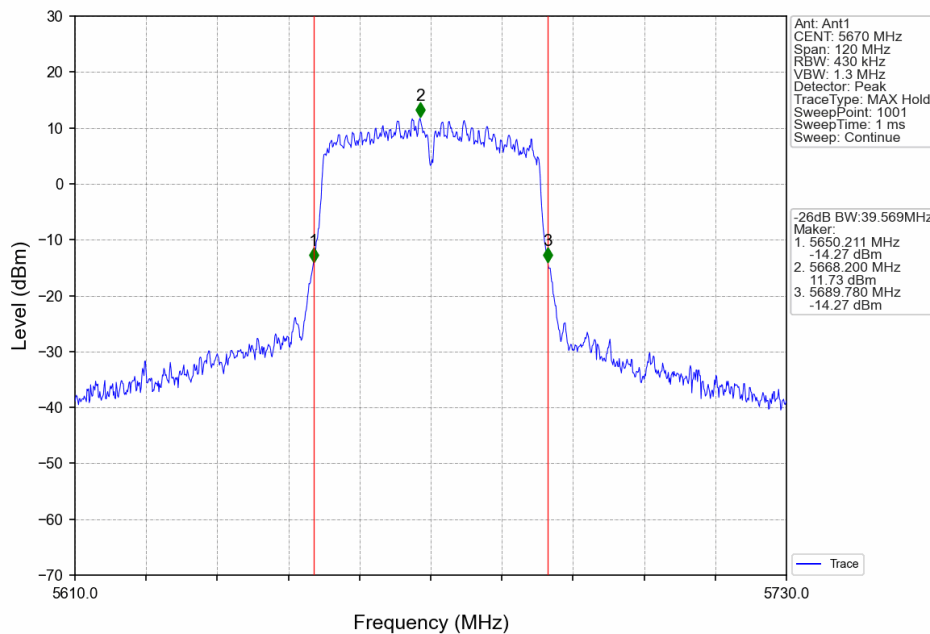
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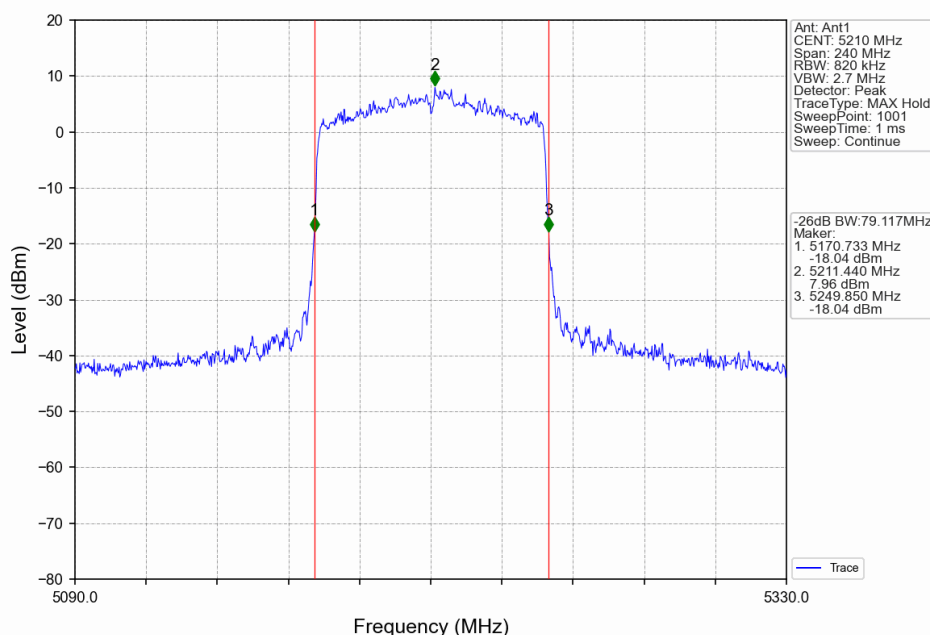
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### 802.11ac(VHT40)\_HCH\_5670MHz\_Ant1\_NTNV



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



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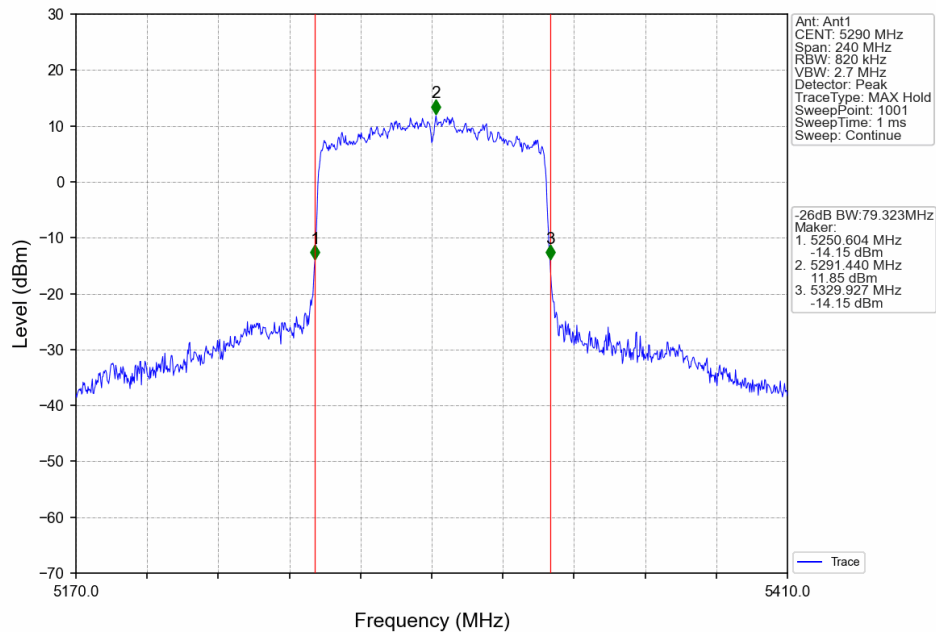
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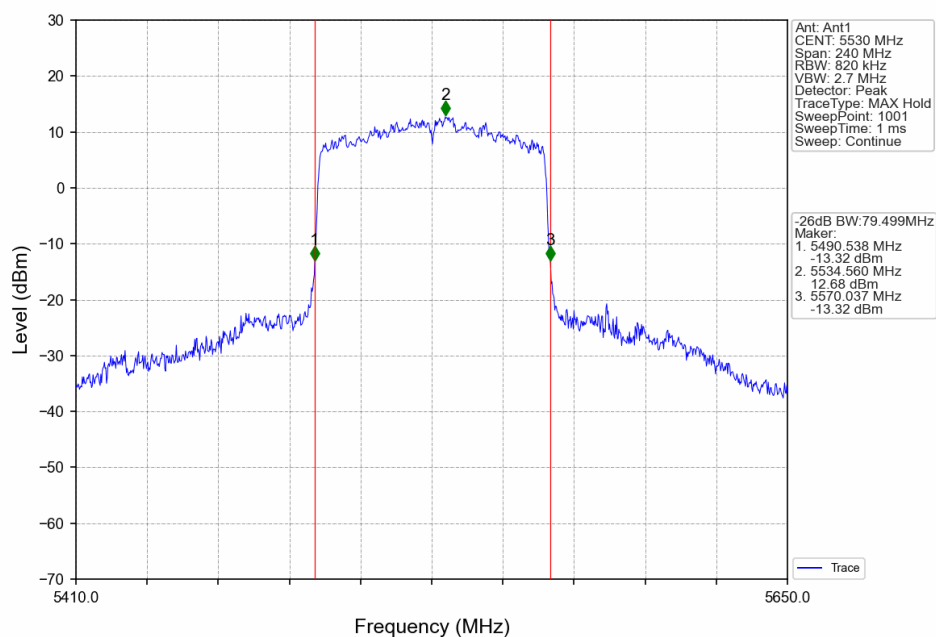
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### 802.11ac(VHT80)\_MCH\_5290MHz\_Ant1\_NTNV



### 802.11ac(VHT80)\_LCH\_5530MHz\_Ant1\_NTNV



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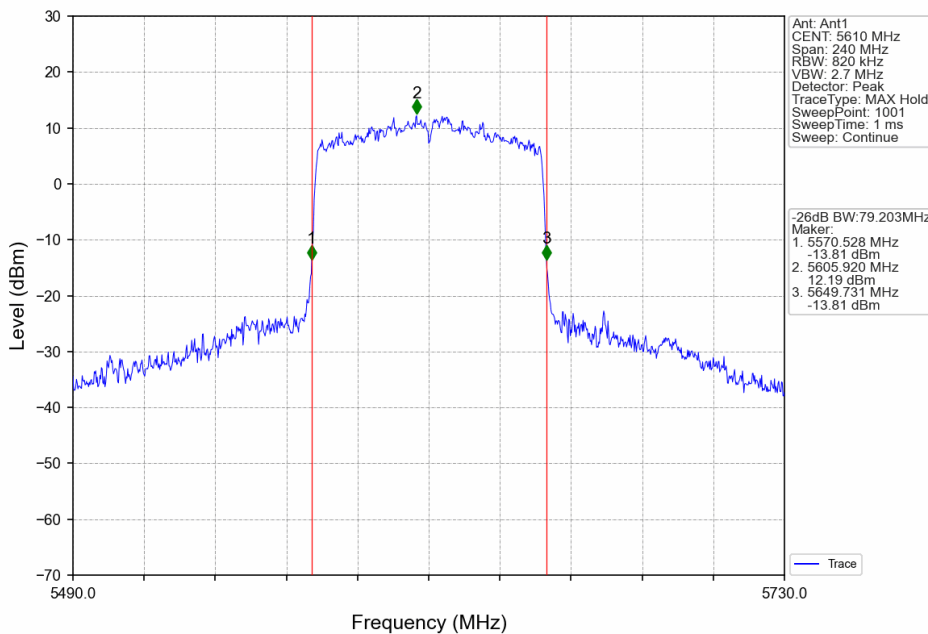
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### 802.11ac(VHT80)\_HCH\_5610MHz\_Ant1\_NTNV



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## 3. Maximum Conducted Output Power

### 3.1 Power

#### 3.1.1 Test Result

| Mode           | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) |       |       |         | Verdict |
|----------------|---------|-----------------|----------------------------------------------|-------|-------|---------|---------|
|                |         |                 | ANT1                                         | ANT2  | MIMO  | Limit   |         |
| 802.11a        | MIMO    | 5180            | 19.01                                        | 18.04 | 21.56 | <=30    | Pass    |
|                |         | 5200            | 18.38                                        | 17.61 | 21.02 | <=30    | Pass    |
|                |         | 5240            | 18.01                                        | 17.33 | 20.69 | <=30    | Pass    |
|                |         | 5260            | 16.81                                        | 15.63 | 19.27 | <=23.91 | Pass    |
|                |         | 5300            | 16.24                                        | 15.16 | 18.74 | <=23.9  | Pass    |
|                |         | 5320            | 16.04                                        | 15.10 | 18.61 | <=23.88 | Pass    |
|                |         | 5500            | 14.69                                        | 13.03 | 16.95 | <=23.91 | Pass    |
|                |         | 5580            | 14.57                                        | 12.44 | 16.64 | <=23.9  | Pass    |
|                |         | 5700            | 15.34                                        | 12.78 | 17.26 | <=23.88 | Pass    |
|                |         | 5745            | 21.72                                        | 20.37 | 24.11 | <=30    | Pass    |
|                |         | 5785            | 21.49                                        | 20.95 | 24.24 | <=30    | Pass    |
|                |         | 5825            | 20.77                                        | 21.11 | 23.95 | <=30    | Pass    |
| 802.11n (HT20) | MIMO    | 5180            | 19.12                                        | 18.60 | 21.88 | <=30    | Pass    |
|                |         | 5200            | 18.53                                        | 18.14 | 21.35 | <=30    | Pass    |
|                |         | 5240            | 18.07                                        | 17.63 | 20.87 | <=30    | Pass    |
|                |         | 5260            | 16.30                                        | 15.46 | 18.91 | <=23.98 | Pass    |
|                |         | 5300            | 15.77                                        | 14.80 | 18.32 | <=23.98 | Pass    |
|                |         | 5320            | 16.51                                        | 15.81 | 19.18 | <=23.98 | Pass    |
|                |         | 5500            | 14.18                                        | 12.73 | 16.53 | <=23.98 | Pass    |
|                |         | 5580            | 14.26                                        | 12.37 | 16.43 | <=23.98 | Pass    |
|                |         | 5700            | 14.49                                        | 12.24 | 16.52 | <=23.98 | Pass    |
|                |         | 5745            | 21.37                                        | 19.97 | 23.74 | <=30    | Pass    |
|                |         | 5785            | 21.30                                        | 20.70 | 24.02 | <=30    | Pass    |
|                |         | 5825            | 20.86                                        | 20.92 | 23.90 | <=30    | Pass    |
| 802.11n (HT40) | MIMO    | 5190            | 18.91                                        | 18.02 | 21.50 | <=30    | Pass    |
|                |         | 5230            | 18.45                                        | 17.64 | 21.07 | <=30    | Pass    |
|                |         | 5270            | 19.18                                        | 18.51 | 21.87 | <=23.98 | Pass    |
|                |         | 5310            | 19.90                                        | 19.28 | 22.61 | <=23.98 | Pass    |
|                |         | 5510            | 18.30                                        | 16.53 | 20.51 | <=23.98 | Pass    |
|                |         | 5550            | 18.59                                        | 16.74 | 20.77 | <=23.98 | Pass    |



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|                  |      |      |       |       |       |         |      |
|------------------|------|------|-------|-------|-------|---------|------|
|                  |      | 5670 | 17.76 | 15.62 | 19.83 | <=23.98 | Pass |
|                  |      | 5755 | 21.55 | 20.49 | 24.06 | <=30    | Pass |
|                  |      | 5795 | 21.64 | 21.30 | 24.48 | <=30    | Pass |
| 802.11ac (VHT20) | MIMO | 5180 | 18.17 | 17.58 | 20.90 | <=30    | Pass |
|                  |      | 5200 | 19.00 | 18.45 | 21.74 | <=30    | Pass |
|                  |      | 5240 | 18.42 | 18.06 | 21.25 | <=30    | Pass |
|                  |      | 5260 | 15.88 | 14.98 | 18.46 | <=23.98 | Pass |
|                  |      | 5300 | 16.47 | 15.63 | 19.08 | <=23.98 | Pass |
|                  |      | 5320 | 16.27 | 15.61 | 18.96 | <=23.98 | Pass |
|                  |      | 5500 | 14.99 | 13.56 | 17.34 | <=23.98 | Pass |
|                  |      | 5580 | 15.02 | 13.09 | 17.17 | <=23.98 | Pass |
|                  |      | 5700 | 15.19 | 12.96 | 17.23 | <=23.98 | Pass |
|                  |      | 5745 | 21.64 | 20.12 | 23.96 | <=30    | Pass |
|                  |      | 5785 | 21.70 | 20.86 | 24.31 | <=30    | Pass |
|                  |      | 5825 | 21.09 | 21.01 | 24.06 | <=30    | Pass |
| 802.11ac (VHT40) | MIMO | 5190 | 18.32 | 18.55 | 21.45 | <=30    | Pass |
|                  |      | 5230 | 18.94 | 18.14 | 21.57 | <=30    | Pass |
|                  |      | 5270 | 18.85 | 18.32 | 21.60 | <=23.98 | Pass |
|                  |      | 5310 | 18.90 | 18.15 | 21.55 | <=23.98 | Pass |
|                  |      | 5510 | 18.19 | 16.48 | 20.43 | <=23.98 | Pass |
|                  |      | 5550 | 18.50 | 16.65 | 20.68 | <=23.98 | Pass |
|                  |      | 5670 | 18.53 | 16.45 | 20.62 | <=23.98 | Pass |
|                  |      | 5755 | 21.18 | 20.04 | 23.66 | <=30    | Pass |
|                  |      | 5795 | 21.14 | 20.72 | 23.95 | <=30    | Pass |
| 802.11ac (VHT80) | MIMO | 5210 | 19.47 | 18.82 | 22.17 | <=30    | Pass |
|                  |      | 5290 | 19.95 | 19.22 | 22.61 | <=23.98 | Pass |
|                  |      | 5530 | 21.03 | 20.25 | 23.67 | <=23.98 | Pass |
|                  |      | 5610 | 20.16 | 19.07 | 22.66 | <=23.98 | Pass |
|                  |      | 5775 | 21.70 | 20.82 | 24.29 | <=30    | Pass |

Note:

| Band          | Ant1 gain (dBi) | Ant2 gain (dBi) | Directional gain for power |
|---------------|-----------------|-----------------|----------------------------|
| U-NII Band 1  | 3.86            | 4.02            | 4.02                       |
| U-NII Band 2A | 3.86            | 4.02            | 4.02                       |
| U-NII Band 2C | 4.08            | 4.88            | 4.88                       |
| U-NII Band 3  | 4.12            | 4.73            | 4.73                       |



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## 3.2 TPC Power

### 3.2.1 Test Result

| Mode             | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) |       |       |         | Verdict |
|------------------|---------|-----------------|----------------------------------------------|-------|-------|---------|---------|
|                  |         |                 | ANT1                                         | ANT2  | MIMO  | Limit   |         |
| 802.11a          | MIMO    | 5260            | 14.97                                        | 14.52 | 17.76 | <=23.91 | Pass    |
|                  |         | 5300            | 14.84                                        | 14.11 | 17.50 | <=23.9  | Pass    |
|                  |         | 5320            | 14.77                                        | 13.91 | 17.37 | <=23.88 | Pass    |
|                  |         | 5500            | 13.57                                        | 12.90 | 16.26 | <=23.91 | Pass    |
|                  |         | 5580            | 13.60                                        | 12.62 | 16.15 | <=23.9  | Pass    |
|                  |         | 5700            | 13.39                                        | 13.17 | 16.29 | <=23.88 | Pass    |
| 802.11n (HT20)   | MIMO    | 5260            | 14.38                                        | 13.86 | 17.14 | <=23.98 | Pass    |
|                  |         | 5300            | 14.49                                        | 13.51 | 17.04 | <=23.98 | Pass    |
|                  |         | 5320            | 14.41                                        | 13.32 | 16.91 | <=23.98 | Pass    |
|                  |         | 5500            | 13.24                                        | 11.21 | 15.35 | <=23.98 | Pass    |
|                  |         | 5580            | 12.72                                        | 10.46 | 14.75 | <=23.98 | Pass    |
|                  |         | 5700            | 13.38                                        | 11.29 | 15.47 | <=23.98 | Pass    |
| 802.11n (HT40)   | MIMO    | 5270            | 15.19                                        | 14.71 | 17.97 | <=23.98 | Pass    |
|                  |         | 5310            | 15.33                                        | 14.48 | 17.94 | <=23.98 | Pass    |
|                  |         | 5510            | 14.01                                        | 13.27 | 16.67 | <=23.98 | Pass    |
|                  |         | 5550            | 14.46                                        | 13.52 | 17.03 | <=23.98 | Pass    |
|                  |         | 5670            | 13.37                                        | 12.86 | 16.13 | <=23.98 | Pass    |
| 802.11ac (VHT20) | MIMO    | 5260            | 14.34                                        | 13.73 | 17.06 | <=23.98 | Pass    |
|                  |         | 5300            | 15.36                                        | 14.37 | 17.90 | <=23.98 | Pass    |
|                  |         | 5320            | 14.24                                        | 13.20 | 16.76 | <=23.98 | Pass    |
|                  |         | 5500            | 13.11                                        | 12.27 | 15.72 | <=23.98 | Pass    |
|                  |         | 5580            | 13.06                                        | 11.88 | 15.52 | <=23.98 | Pass    |
|                  |         | 5700            | 12.91                                        | 12.52 | 15.73 | <=23.98 | Pass    |
| 802.11ac (VHT40) | MIMO    | 5270            | 14.93                                        | 14.47 | 17.72 | <=23.98 | Pass    |
|                  |         | 5310            | 16.15                                        | 15.35 | 18.78 | <=23.98 | Pass    |
|                  |         | 5510            | 13.79                                        | 13.15 | 16.49 | <=23.98 | Pass    |
|                  |         | 5550            | 14.32                                        | 13.20 | 16.81 | <=23.98 | Pass    |
|                  |         | 5670            | 13.16                                        | 12.65 | 15.92 | <=23.98 | Pass    |
| 802.11ac (VHT80) | MIMO    | 5290            | 15.41                                        | 14.76 | 18.11 | <=23.98 | Pass    |
|                  |         | 5530            | 14.76                                        | 13.94 | 17.38 | <=23.98 | Pass    |
|                  |         | 5610            | 13.87                                        | 12.68 | 16.33 | <=23.98 | Pass    |



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## 4. Maximum Power Spectral Density

### 4.1 PSD

#### 4.1.1 Test Result

| Mode             | TX Type | Frequency (MHz) | Maximum PSD (dBm/MHz) |      |       |         | Verdict |
|------------------|---------|-----------------|-----------------------|------|-------|---------|---------|
|                  |         |                 | ANT1                  | ANT2 | MIMO  | Limit   |         |
| 802.11a          | MIMO    | 5180            | 8.69                  | 7.62 | 11.00 | <=15.97 | Pass    |
|                  |         | 5200            | 8.03                  | 7.23 | 10.62 | <=15.97 | Pass    |
|                  |         | 5240            | 7.89                  | 7.95 | 10.76 | <=15.97 | Pass    |
|                  |         | 5260            | 6.52                  | 5.33 | 8.86  | <=9.97  | Pass    |
|                  |         | 5300            | 6.08                  | 4.76 | 8.34  | <=9.97  | Pass    |
|                  |         | 5320            | 5.74                  | 4.88 | 8.26  | <=9.97  | Pass    |
|                  |         | 5500            | 4.25                  | 2.69 | 6.42  | <=9.11  | Pass    |
|                  |         | 5580            | 4.23                  | 2.08 | 6.23  | <=9.11  | Pass    |
|                  |         | 5700            | 4.95                  | 2.51 | 6.82  | <=9.11  | Pass    |
| 802.11n (HT20)   | MIMO    | 5180            | 8.75                  | 8.04 | 11.28 | <=15.97 | Pass    |
|                  |         | 5200            | 7.94                  | 7.77 | 10.71 | <=15.97 | Pass    |
|                  |         | 5240            | 7.55                  | 7.29 | 10.23 | <=15.97 | Pass    |
|                  |         | 5260            | 5.83                  | 4.94 | 8.31  | <=9.97  | Pass    |
|                  |         | 5300            | 5.17                  | 4.44 | 7.78  | <=9.97  | Pass    |
|                  |         | 5320            | 5.89                  | 5.33 | 8.59  | <=9.97  | Pass    |
|                  |         | 5500            | 3.77                  | 2.31 | 5.95  | <=9.11  | Pass    |
|                  |         | 5580            | 3.93                  | 1.91 | 5.93  | <=9.11  | Pass    |
|                  |         | 5700            | 4.06                  | 2.79 | 6.33  | <=9.11  | Pass    |
| 802.11n (HT40)   | MIMO    | 5190            | 5.34                  | 4.60 | 7.87  | <=15.97 | Pass    |
|                  |         | 5230            | 5.20                  | 4.22 | 7.59  | <=15.97 | Pass    |
|                  |         | 5270            | 5.59                  | 5.28 | 8.37  | <=9.97  | Pass    |
|                  |         | 5310            | 6.73                  | 5.80 | 9.17  | <=9.97  | Pass    |
|                  |         | 5510            | 4.76                  | 2.99 | 6.89  | <=9.11  | Pass    |
|                  |         | 5550            | 5.02                  | 3.56 | 7.24  | <=9.11  | Pass    |
|                  |         | 5670            | 4.25                  | 2.08 | 6.16  | <=9.11  | Pass    |
| 802.11ac (VHT20) | MIMO    | 5180            | 7.63                  | 7.30 | 10.27 | <=15.97 | Pass    |
|                  |         | 5200            | 8.37                  | 8.11 | 11.09 | <=15.97 | Pass    |
|                  |         | 5240            | 7.85                  | 7.63 | 10.63 | <=15.97 | Pass    |
|                  |         | 5260            | 5.22                  | 4.84 | 7.83  | <=9.97  | Pass    |
|                  |         | 5300            | 6.01                  | 5.35 | 8.52  | <=9.97  | Pass    |
|                  |         | 5320            | 5.62                  | 5.19 | 8.32  | <=9.97  | Pass    |
|                  |         | 5500            | 4.56                  | 3.15 | 6.80  | <=9.11  | Pass    |



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|                     |      |      |      |      |      |         |      |
|---------------------|------|------|------|------|------|---------|------|
|                     |      | 5580 | 4.52 | 2.74 | 6.59 | <=9.11  | Pass |
|                     |      | 5700 | 4.67 | 2.51 | 6.65 | <=9.11  | Pass |
| 802.11ac<br>(VHT40) | MIMO | 5190 | 6.09 | 5.27 | 8.44 | <=15.97 | Pass |
|                     |      | 5230 | 5.54 | 4.66 | 8.03 | <=15.97 | Pass |
|                     |      | 5270 | 5.34 | 5.02 | 8.11 | <=9.97  | Pass |
|                     |      | 5310 | 5.73 | 4.86 | 8.22 | <=9.97  | Pass |
|                     |      | 5510 | 4.58 | 3.21 | 6.80 | <=9.11  | Pass |
|                     |      | 5550 | 5.03 | 3.30 | 7.24 | <=9.11  | Pass |
|                     |      | 5670 | 4.97 | 3.09 | 7.01 | <=9.11  | Pass |
| 802.11ac<br>(VHT80) | MIMO | 5210 | 3.67 | 2.75 | 6.23 | <=15.97 | Pass |
|                     |      | 5290 | 3.85 | 3.58 | 6.63 | <=9.97  | Pass |
|                     |      | 5530 | 5.26 | 4.32 | 7.66 | <=9.11  | Pass |
|                     |      | 5610 | 4.11 | 2.91 | 6.52 | <=9.11  | Pass |

Note:

| Band          | Ant1 gain<br>(dBi) | Ant2 gain<br>(dBi) | Directional gain<br>for PSD |
|---------------|--------------------|--------------------|-----------------------------|
| U-NII Band 1  | 3.86               | 4.02               | 7.03                        |
| U-NII Band 2A | 3.86               | 4.02               | 7.03                        |
| U-NII Band 2C | 4.08               | 4.88               | 7.89                        |
| U-NII Band 3  | 4.12               | 4.73               | 7.74                        |



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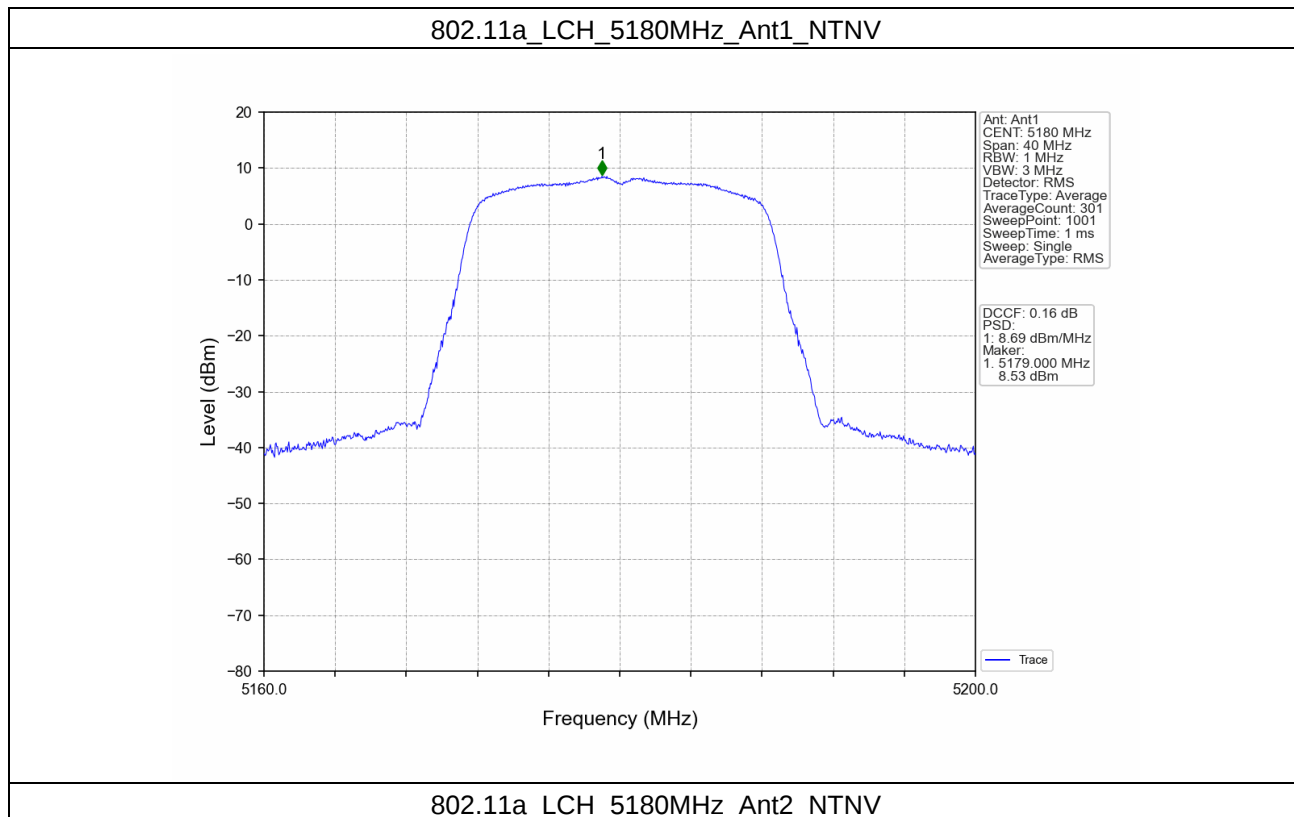
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### 4.1.2 Test Graph



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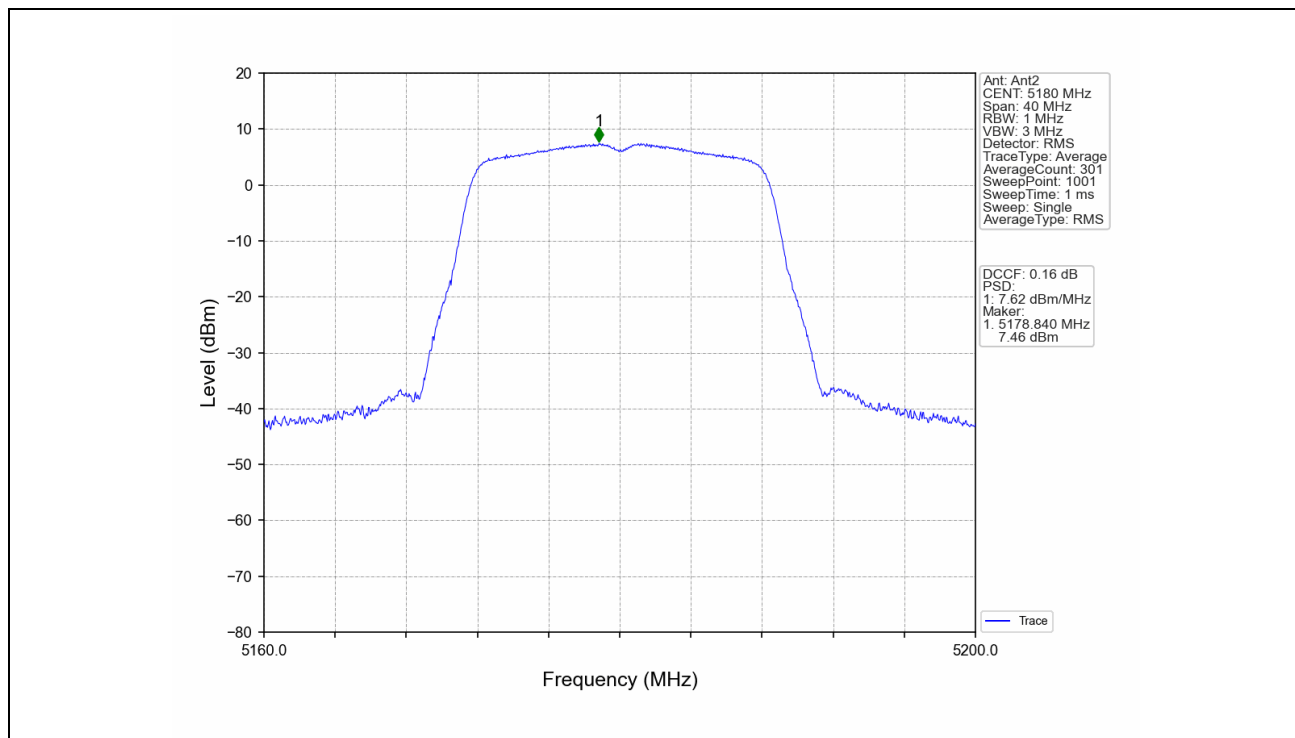
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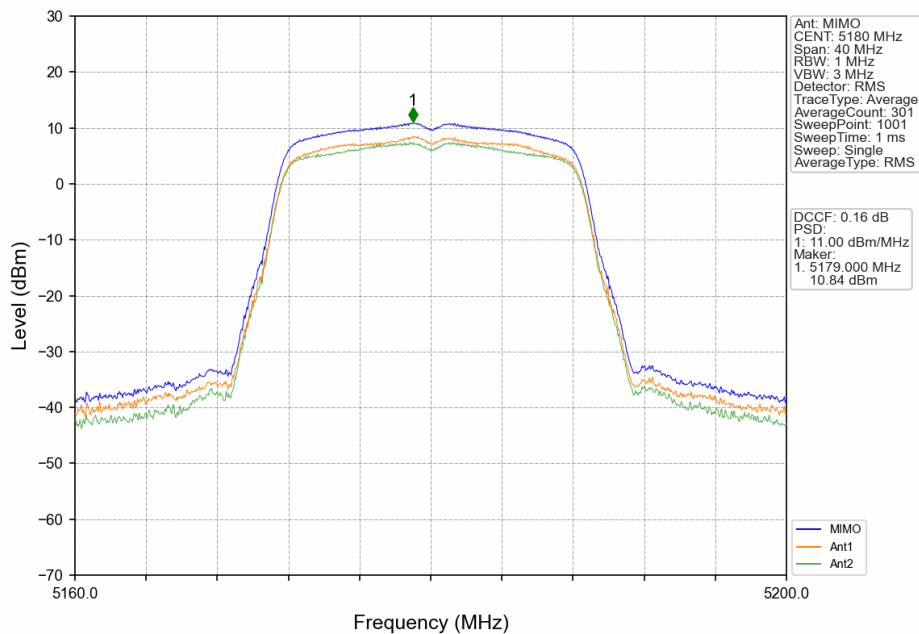
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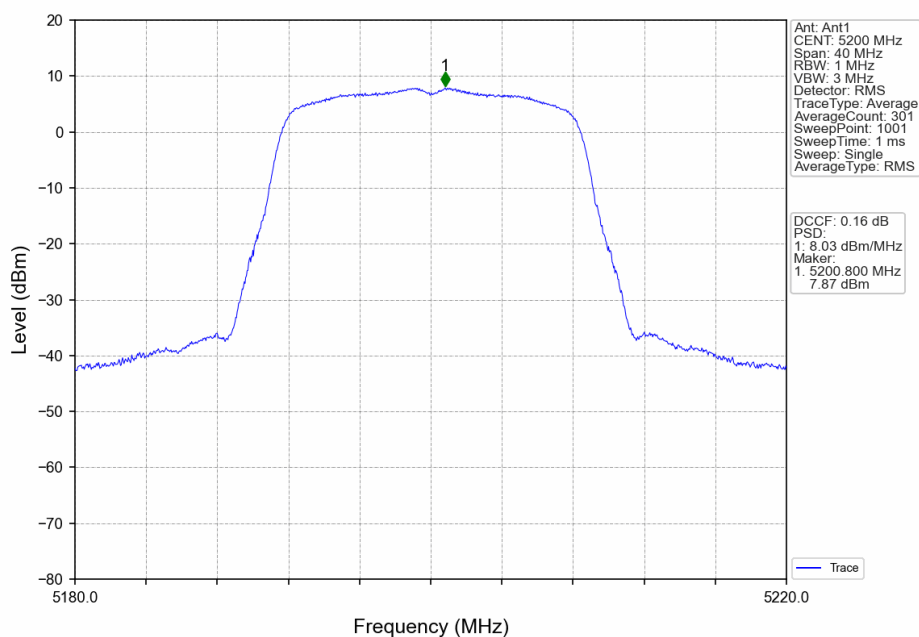
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802.11a\_LCH\_5180MHz\_MIMO\_NTNV



802.11a\_MCH\_5200MHz\_Ant1\_NTNV



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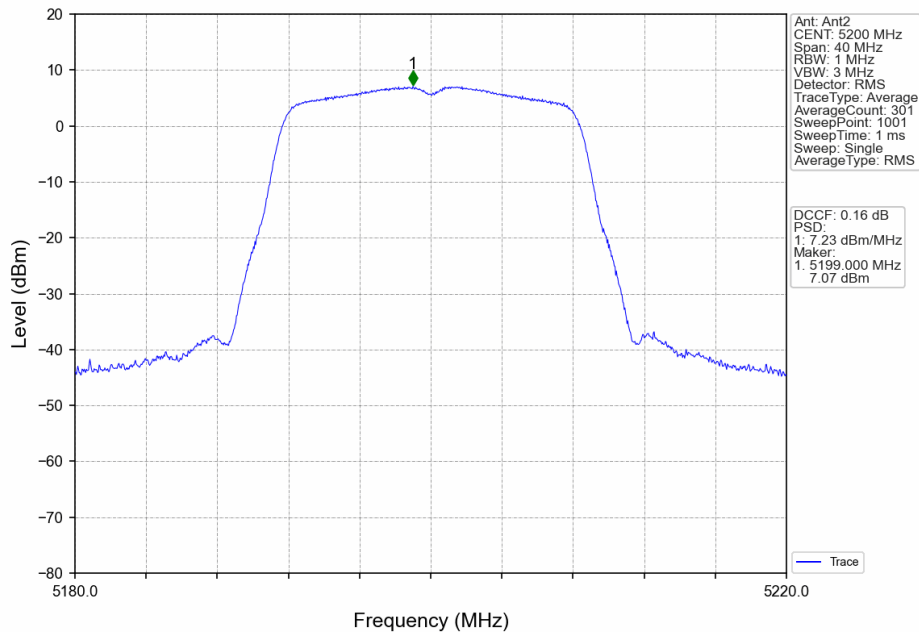
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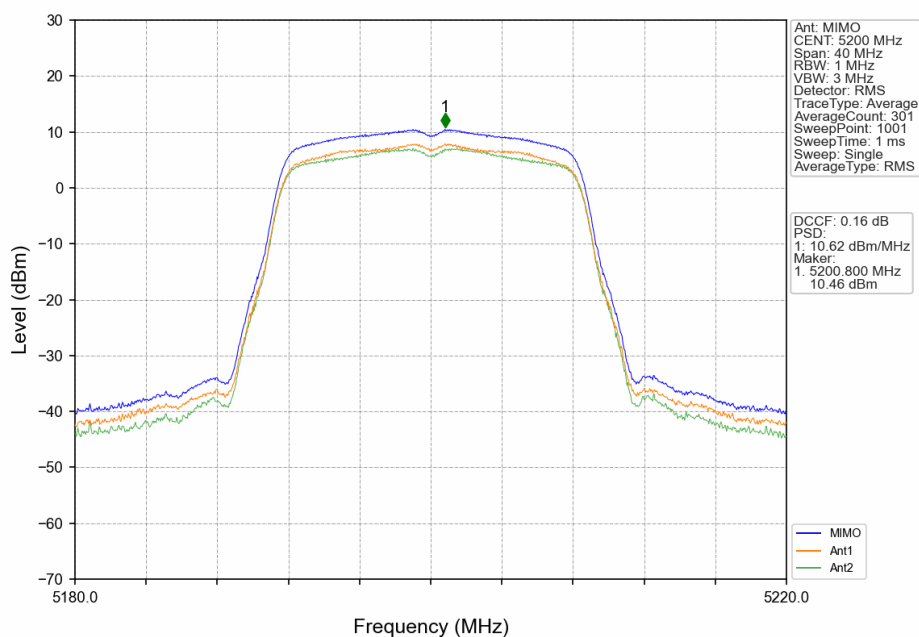
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802.11a\_MCH\_5200MHz\_Ant2\_NTNV



802.11a\_MCH\_5200MHz\_MIMO\_NTNV



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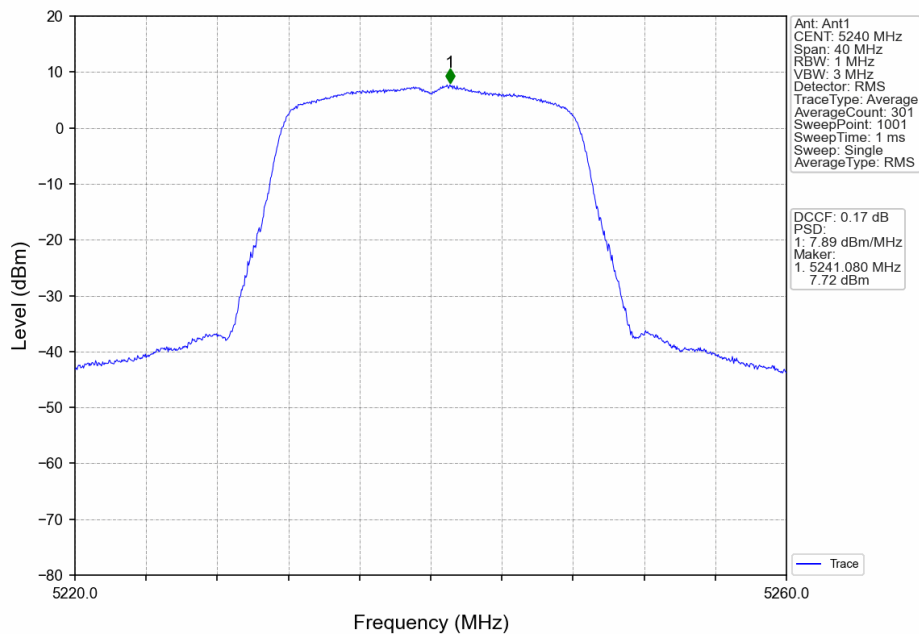
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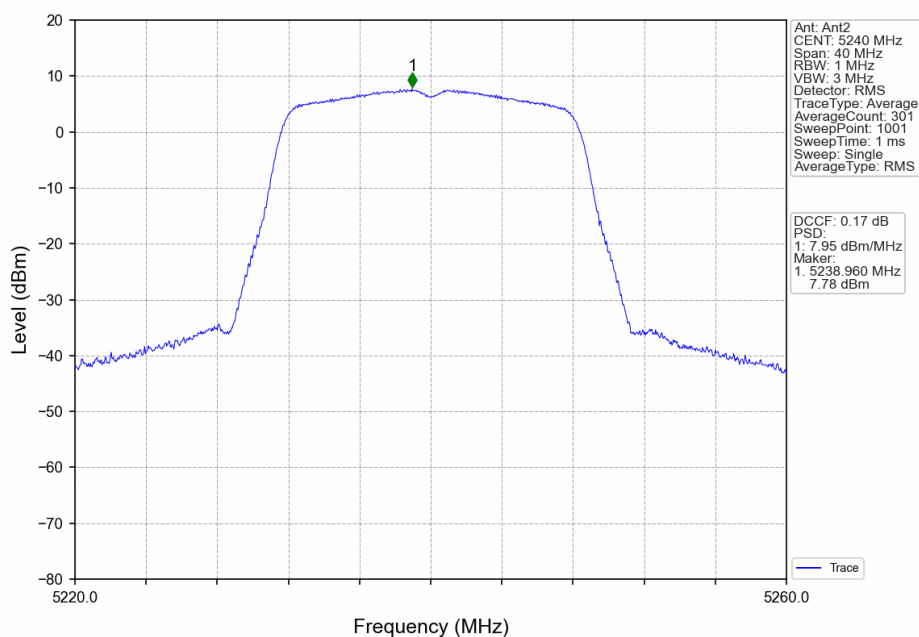
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802.11a\_HCH\_5240MHz\_Ant1\_NTNV



802.11a\_HCH\_5240MHz\_Ant2\_NTNV



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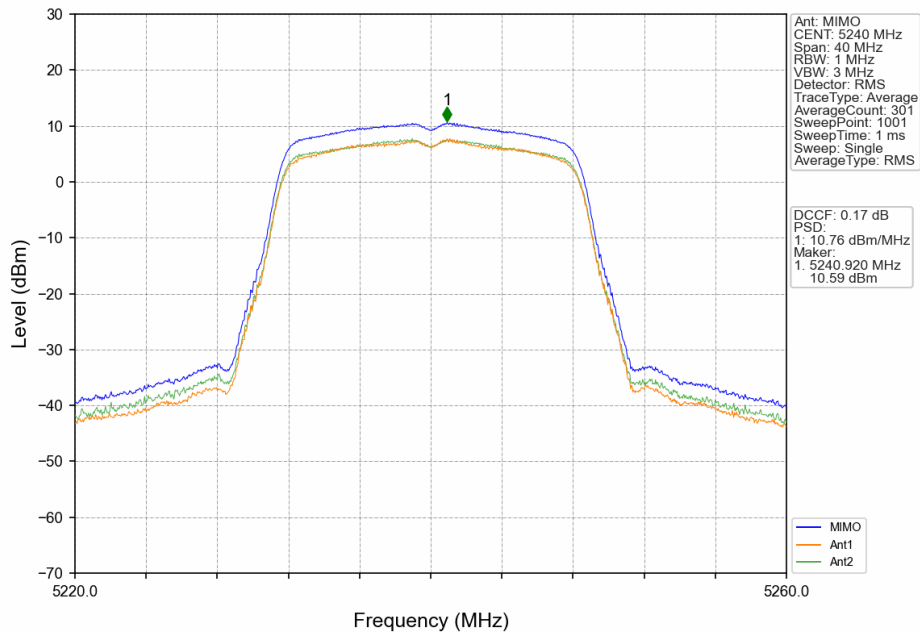
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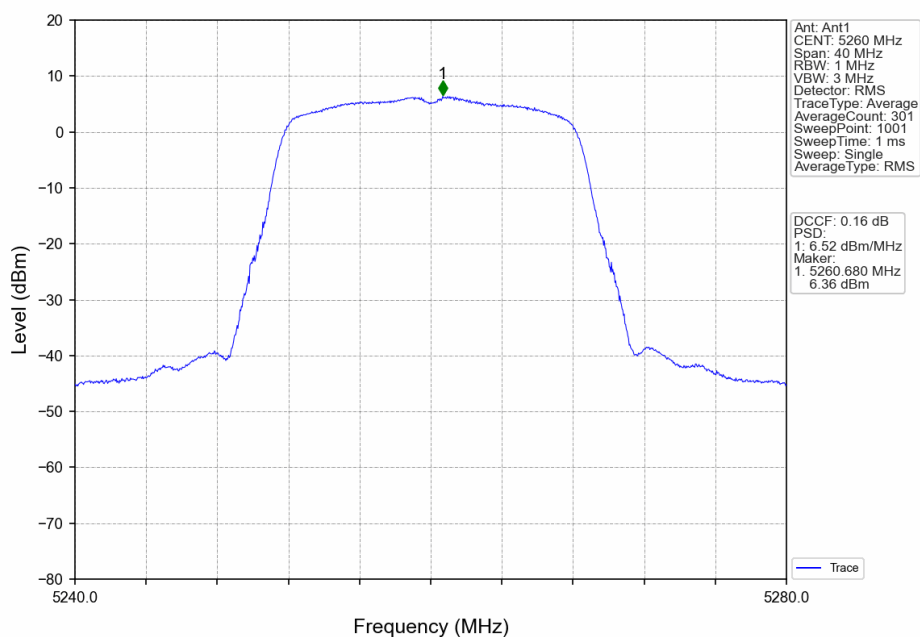
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802.11a\_HCH\_5240MHz\_MIMO\_NTNV



802.11a\_LCH\_5260MHz\_Ant1\_NTNV



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