

## 10 Appendix

### 1. Duty Cycle

#### 1.1 Ant1

##### 1.1.1 Test Result

| Ant1           |         |                 |                      |             |                |                                   |                       |
|----------------|---------|-----------------|----------------------|-------------|----------------|-----------------------------------|-----------------------|
| Mode           | Tx Type | Frequency (MHz) | T <sub>on</sub> (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| 802.11a        | SISO    | 5180            | 2.065                | 2.225       | 92.81          | 0.32                              | 5.13                  |
|                |         | 5200            | 2.072                | 2.217       | 93.46          | 0.29                              | 4.75                  |
|                |         | 5240            | 2.065                | 2.218       | 93.10          | 0.31                              | 4.40                  |
|                |         | 5260            | 2.071                | 2.235       | 92.66          | 0.33                              | 5.97                  |
|                |         | 5300            | 2.070                | 2.226       | 92.99          | 0.32                              | 5.59                  |
|                |         | 5320            | 2.071                | 2.208       | 93.80          | 0.28                              | 4.83                  |
|                |         | 5500            | 2.065                | 2.217       | 93.14          | 0.31                              | 4.36                  |
|                |         | 5580            | 2.066                | 2.235       | 92.44          | 0.34                              | 5.10                  |
|                |         | 5700            | 2.064                | 2.226       | 92.72          | 0.33                              | 4.33                  |
|                |         | 5745            | 2.070                | 2.225       | 93.03          | 0.31                              | 5.59                  |
|                |         | 5785            | 2.065                | 2.226       | 92.77          | 0.33                              | 4.33                  |
|                |         | 5825            | 2.065                | 2.209       | 93.48          | 0.29                              | 4.46                  |
| 802.11n (HT20) | MIMO    | 5180            | 1.922                | 2.082       | 92.32          | 0.35                              | 5.51                  |
|                |         | 5200            | 1.928                | 2.073       | 93.01          | 0.31                              | 5.12                  |
|                |         | 5240            | 1.927                | 2.091       | 92.16          | 0.35                              | 5.88                  |
|                |         | 5260            | 1.921                | 2.090       | 91.91          | 0.37                              | 5.43                  |
|                |         | 5300            | 1.921                | 2.082       | 92.27          | 0.35                              | 5.51                  |
|                |         | 5320            | 1.926                | 2.082       | 92.51          | 0.34                              | 5.49                  |
|                |         | 5500            | 1.926                | 2.091       | 92.11          | 0.36                              | 5.95                  |
|                |         | 5580            | 1.926                | 2.082       | 92.51          | 0.34                              | 5.50                  |
|                |         | 5700            | 1.926                | 2.091       | 92.11          | 0.36                              | 6.39                  |
|                |         | 5745            | 1.926                | 2.082       | 92.51          | 0.34                              | 5.53                  |
|                |         | 5785            | 1.920                | 2.082       | 92.22          | 0.35                              | 5.48                  |
|                |         | 5825            | 1.920                | 2.091       | 91.82          | 0.37                              | 4.57                  |
| 802.11n (HT40) | MIMO    | 5190            | 0.950                | 1.115       | 85.20          | 0.70                              | 11.73                 |
|                |         | 5230            | 0.950                | 1.061       | 89.54          | 0.48                              | 7.40                  |
|                |         | 5270            | 0.944                | 1.087       | 86.84          | 0.61                              | 6.96                  |



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|                     |      |      |       |       |       |      |       |
|---------------------|------|------|-------|-------|-------|------|-------|
|                     |      | 5310 | 0.945 | 1.097 | 86.14 | 0.65 | 9.45  |
|                     |      | 5510 | 0.950 | 1.115 | 85.20 | 0.70 | 11.73 |
|                     |      | 5550 | 0.945 | 1.097 | 86.14 | 0.65 | 9.38  |
|                     |      | 5670 | 0.944 | 1.106 | 85.35 | 0.69 | 8.37  |
|                     |      | 5755 | 0.945 | 1.106 | 85.44 | 0.68 | 9.26  |
|                     |      | 5795 | 0.945 | 1.088 | 86.86 | 0.61 | 8.73  |
| 802.11ac<br>(VHT20) | MIMO | 5180 | 1.938 | 2.103 | 92.15 | 0.35 | 6.32  |
|                     |      | 5200 | 1.939 | 2.104 | 92.16 | 0.35 | 6.36  |
|                     |      | 5240 | 1.938 | 2.094 | 92.55 | 0.34 | 5.94  |
|                     |      | 5260 | 1.939 | 2.095 | 92.55 | 0.34 | 5.93  |
|                     |      | 5300 | 1.938 | 2.085 | 92.95 | 0.32 | 5.55  |
|                     |      | 5320 | 1.933 | 2.104 | 91.87 | 0.37 | 5.43  |
|                     |      | 5500 | 1.933 | 2.094 | 92.31 | 0.35 | 4.58  |
|                     |      | 5580 | 1.933 | 2.095 | 92.27 | 0.35 | 5.01  |
|                     |      | 5700 | 1.933 | 2.085 | 92.71 | 0.33 | 5.49  |
|                     |      | 5745 | 1.939 | 2.076 | 93.40 | 0.30 | 5.12  |
|                     |      | 5785 | 1.939 | 2.094 | 92.60 | 0.33 | 5.90  |
|                     |      | 5825 | 1.938 | 2.103 | 92.15 | 0.35 | 5.88  |
| 802.11ac<br>(VHT40) | MIMO | 5190 | 0.953 | 1.123 | 84.86 | 0.71 | 7.42  |
|                     |      | 5230 | 0.954 | 1.124 | 84.88 | 0.71 | 10.70 |
|                     |      | 5270 | 0.953 | 1.087 | 87.67 | 0.57 | 8.79  |
|                     |      | 5310 | 0.953 | 1.123 | 84.86 | 0.71 | 11.63 |
|                     |      | 5510 | 0.954 | 1.106 | 86.26 | 0.64 | 10.25 |
|                     |      | 5550 | 0.953 | 1.114 | 85.55 | 0.68 | 9.17  |
|                     |      | 5670 | 0.959 | 1.115 | 86.01 | 0.65 | 10.95 |
|                     |      | 5755 | 0.958 | 1.123 | 85.31 | 0.69 | 11.69 |
|                     |      | 5795 | 0.952 | 1.123 | 84.77 | 0.72 | 11.59 |
| 802.11ac<br>(VHT80) | MIMO | 5210 | 0.461 | 0.631 | 73.06 | 1.36 | 16.58 |
|                     |      | 5290 | 0.460 | 0.604 | 76.16 | 1.18 | 16.61 |
|                     |      | 5530 | 0.461 | 0.631 | 73.06 | 1.36 | 15.13 |
|                     |      | 5610 | 0.461 | 0.632 | 72.94 | 1.37 | 16.65 |
|                     |      | 5775 | 0.461 | 0.631 | 73.06 | 1.36 | 18.19 |



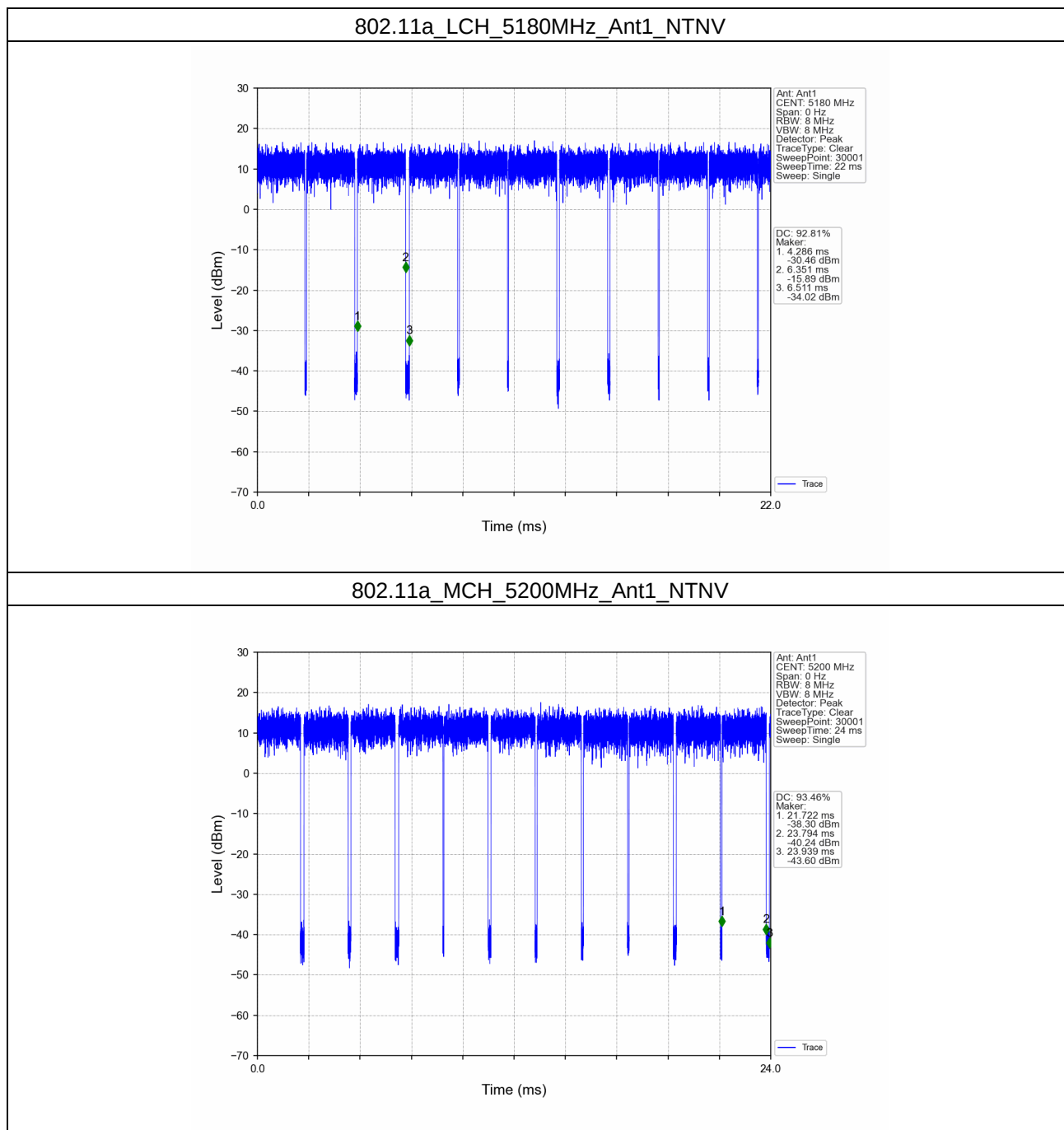
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### 1.1.2 Test Graph



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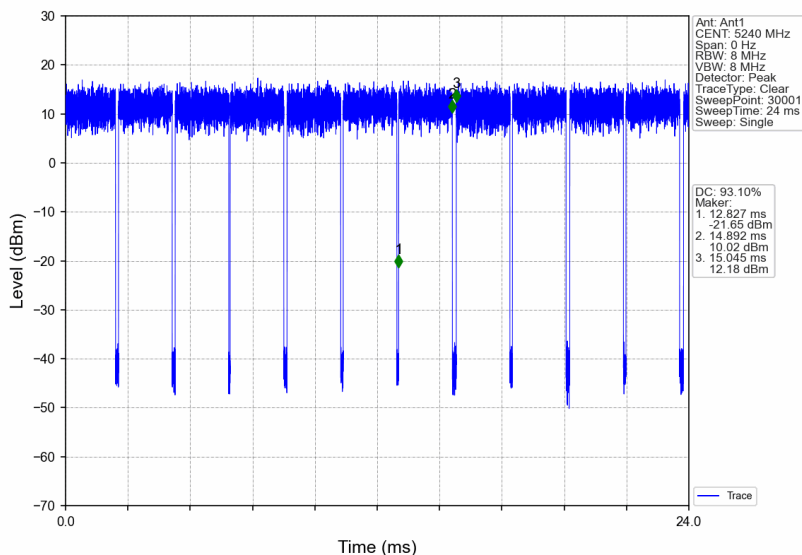
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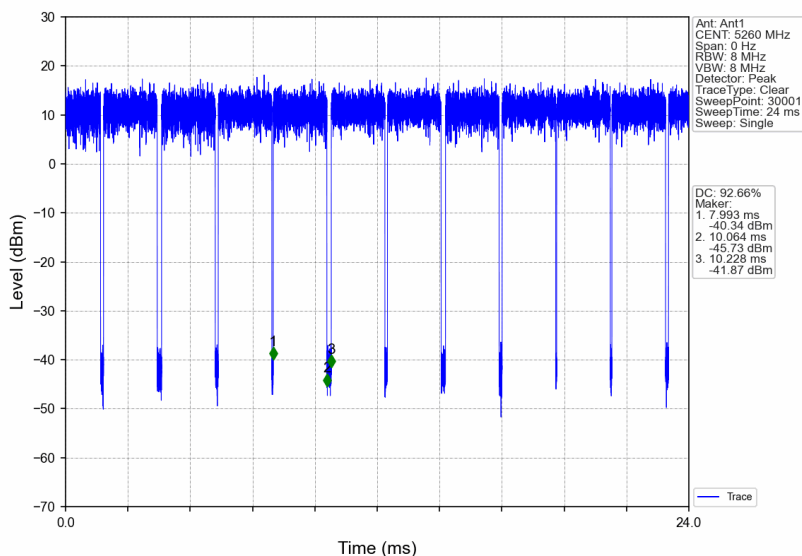
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### 802.11a\_HCH\_5240MHz\_Ant1\_NTNV



### 802.11a\_LCH\_5260MHz\_Ant1\_NTNV



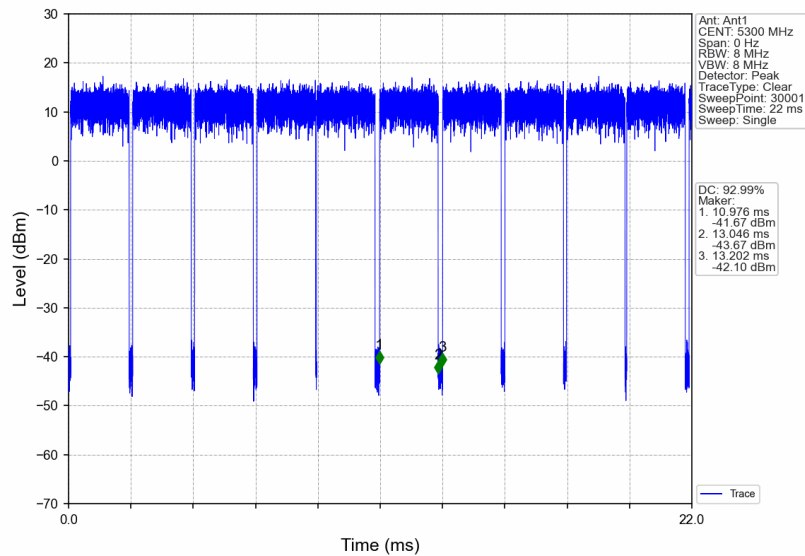
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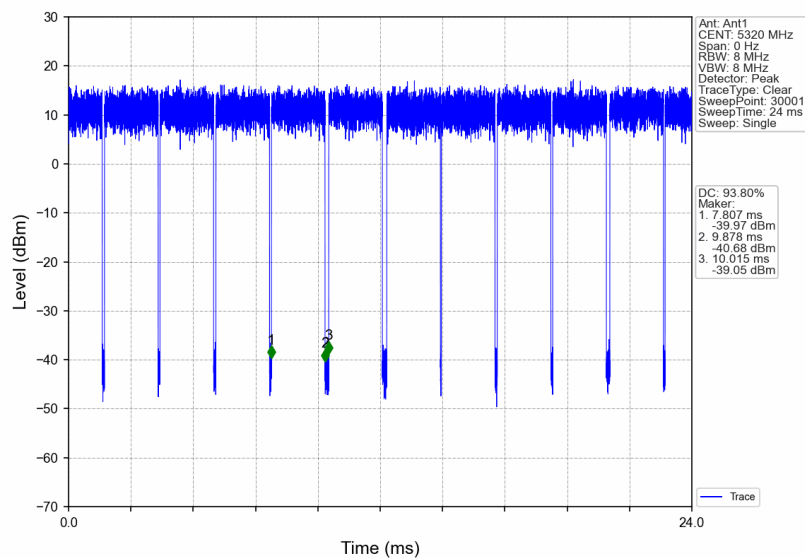
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### 802.11a\_MCH\_5300MHz\_Ant1\_NTNV



### 802.11a\_HCH\_5320MHz\_Ant1\_NTNV



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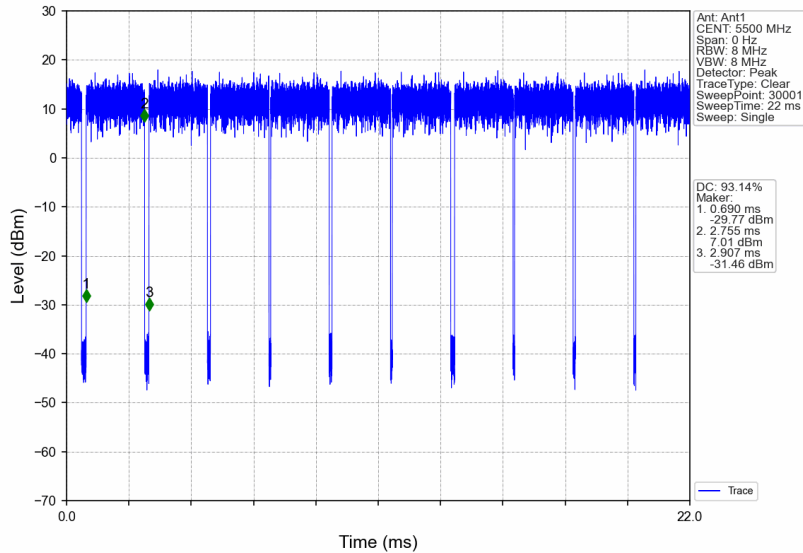
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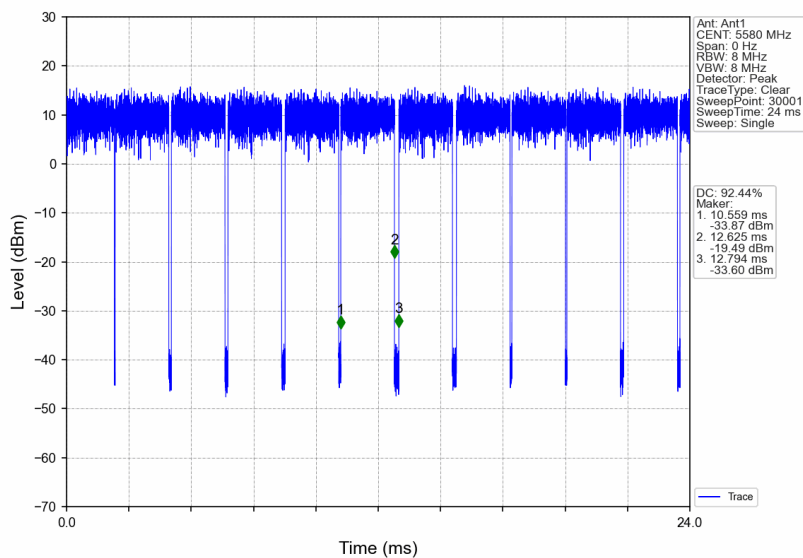
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### 802.11a\_MCH\_5580MHz\_Ant1\_NTNV

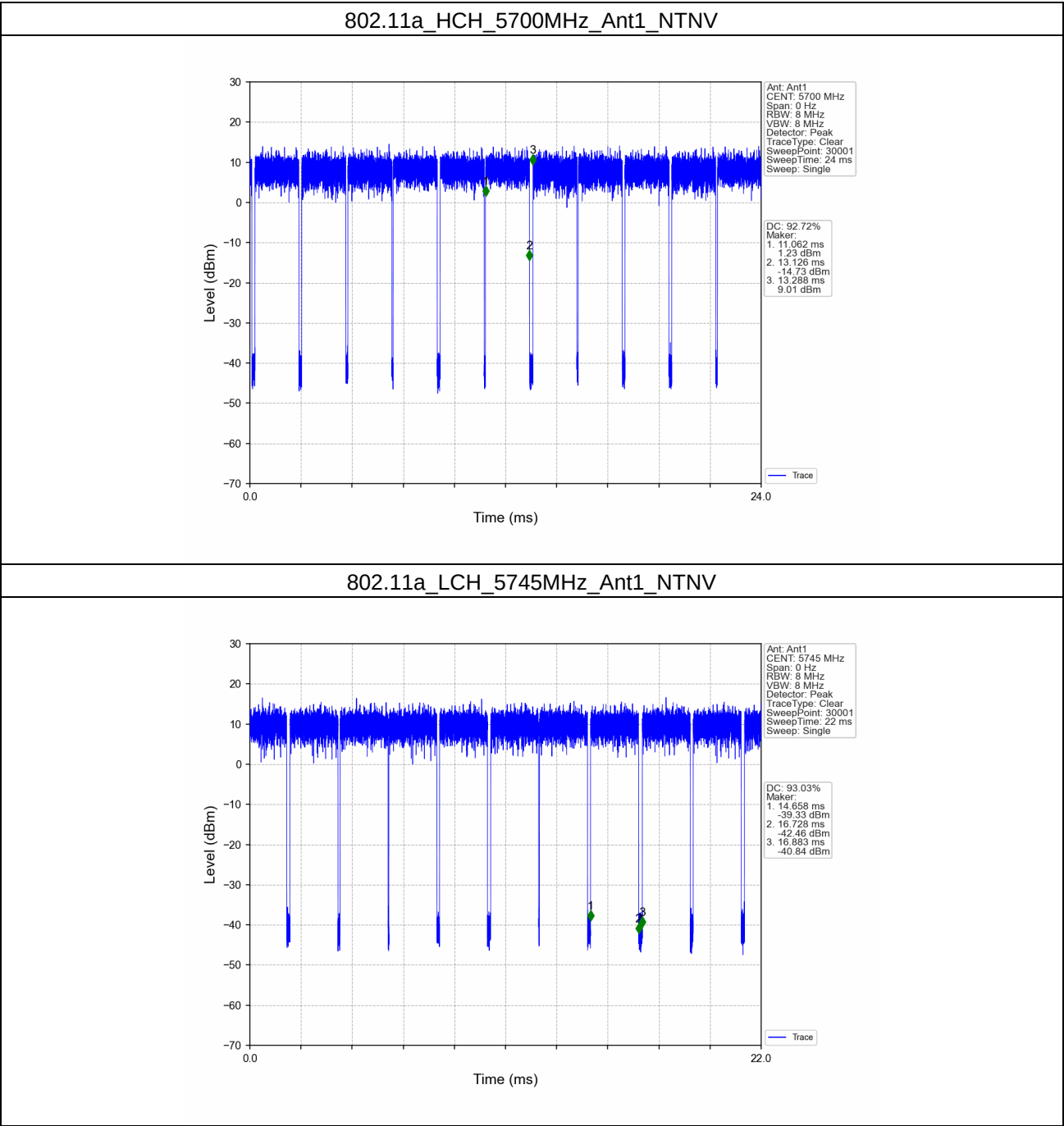


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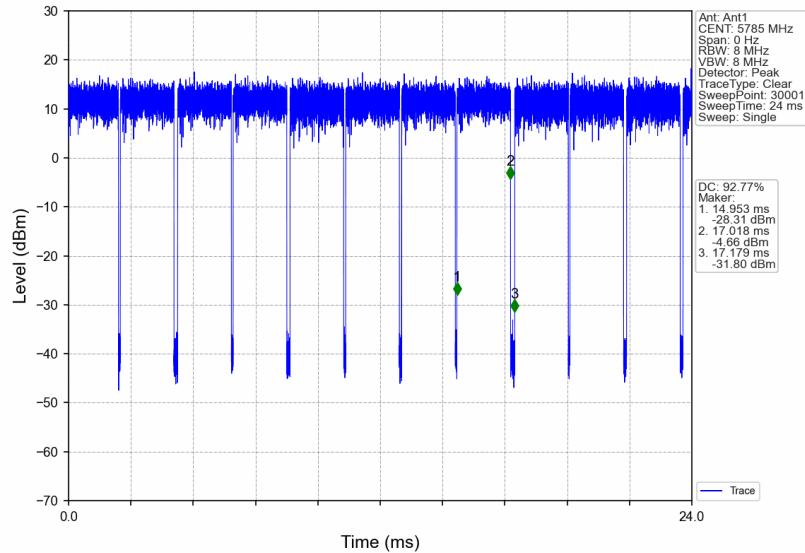
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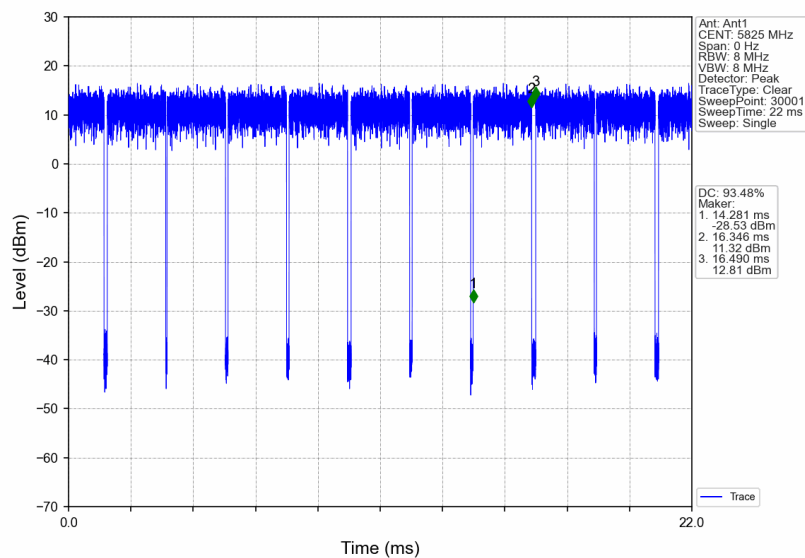
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### 802.11a\_HCH\_5825MHz\_Ant1\_NTNV



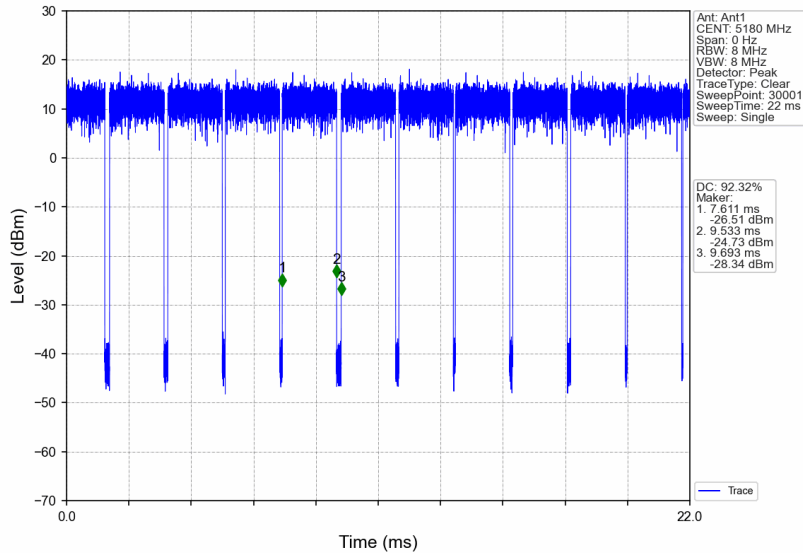
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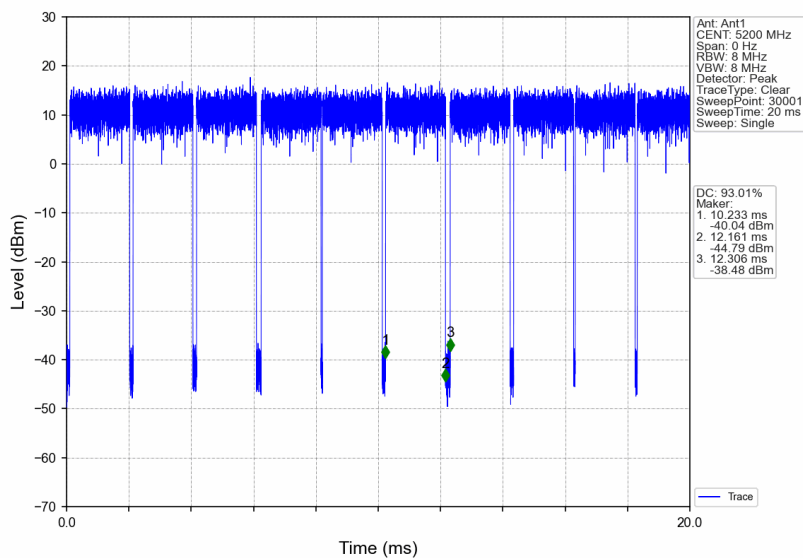
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802.11n(HT20)\_LCH\_5180MHz\_Ant1\_NTNV



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



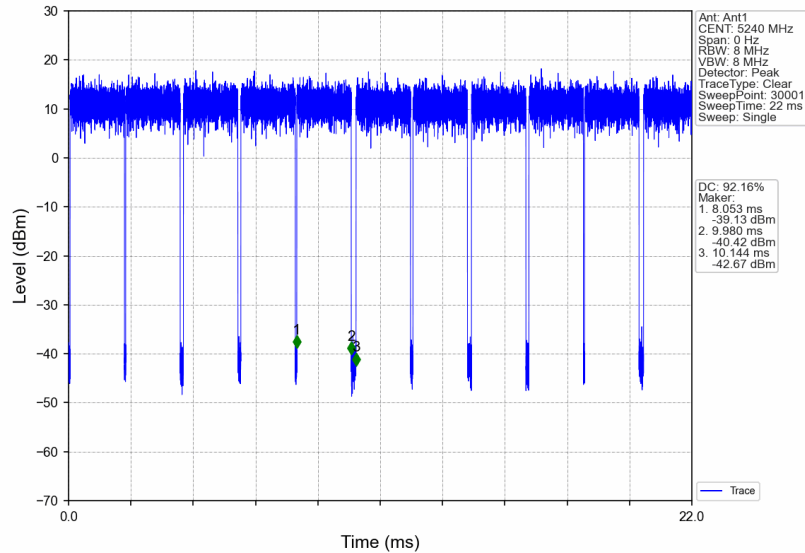
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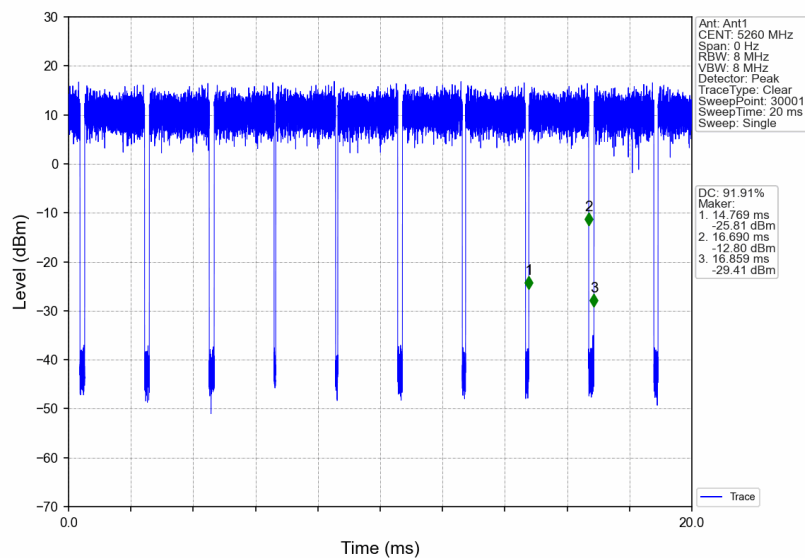
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### 802.11n(HT20)\_LCH\_5260MHz\_Ant1\_NTNV



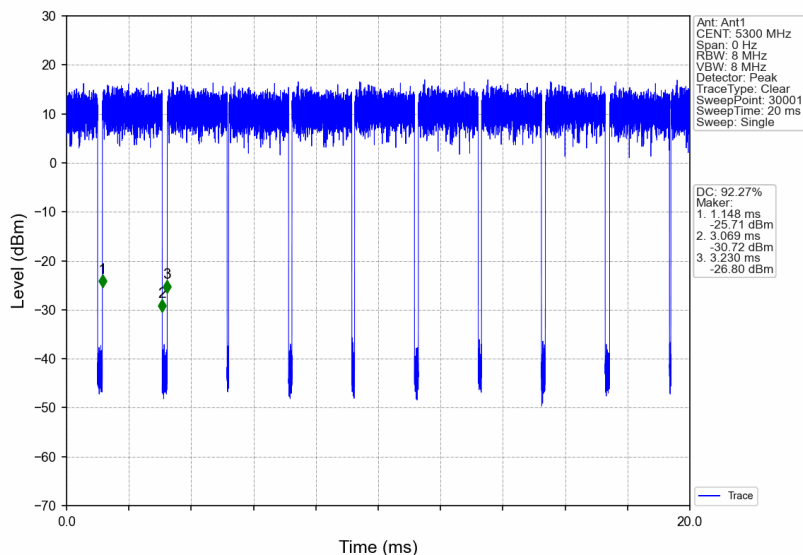
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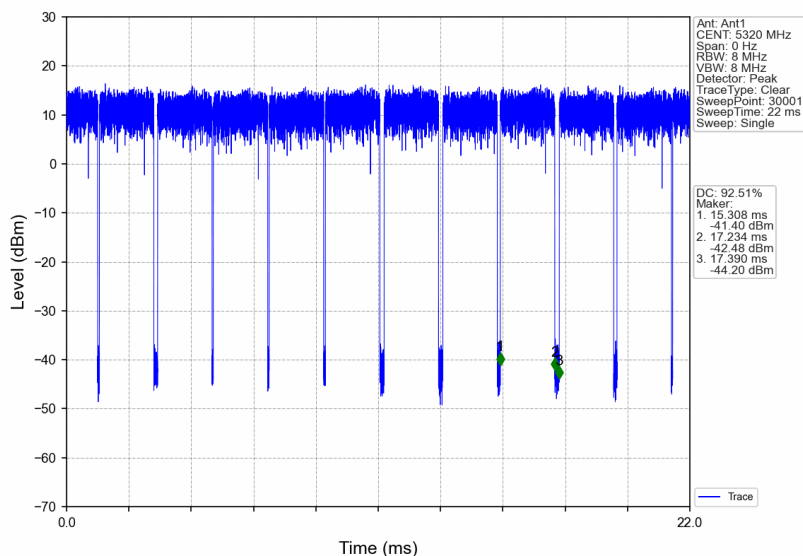
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### 802.11n(HT20)\_MCH\_5300MHz\_Ant1\_NTNV



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



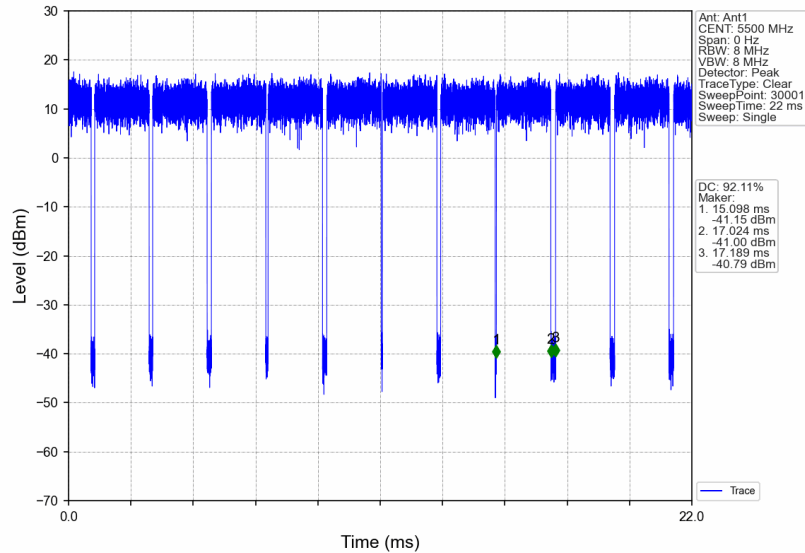
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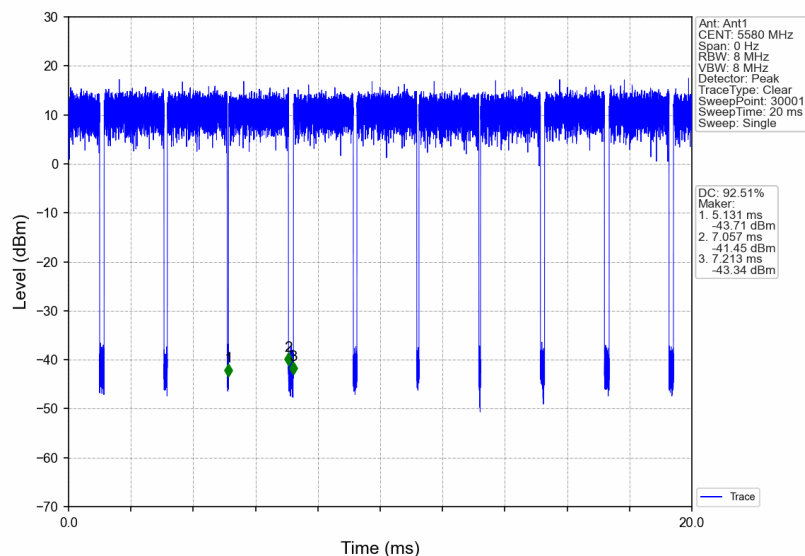
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802.11n(HT20)\_LCH\_5500MHz\_Ant1\_NTNV



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



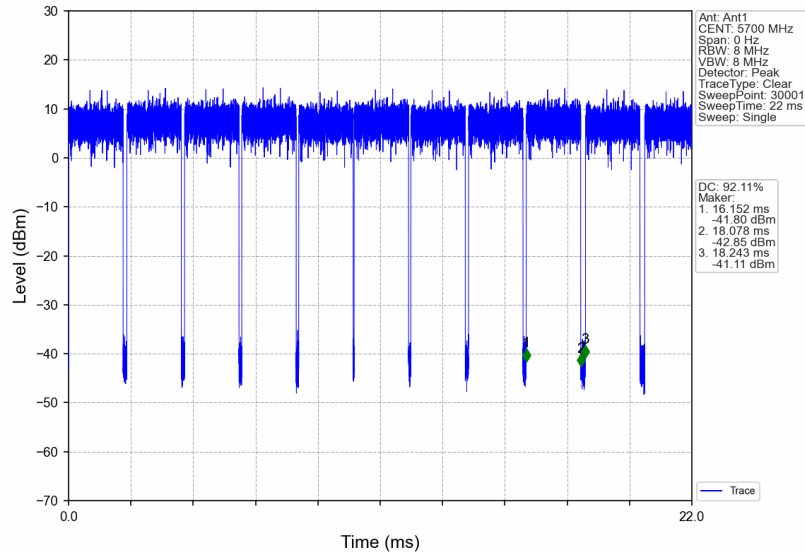
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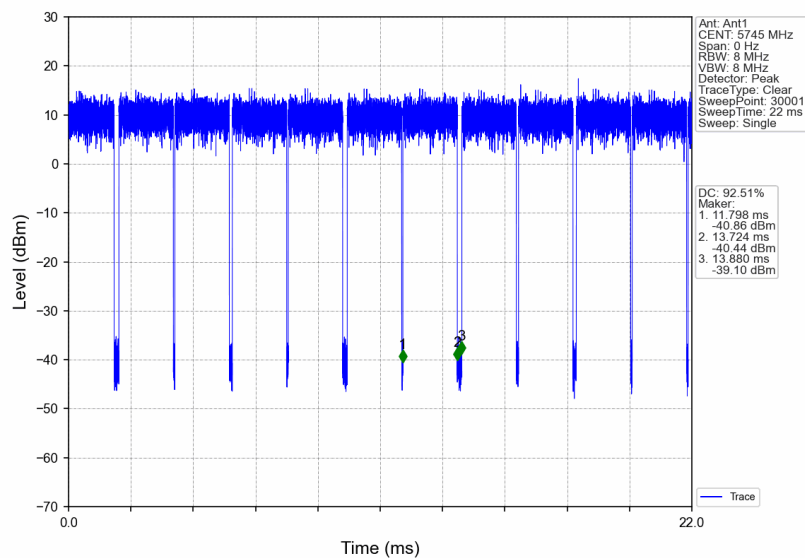
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### 802.11n(HT20)\_HCH\_5700MHz\_Ant1\_NTNV



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



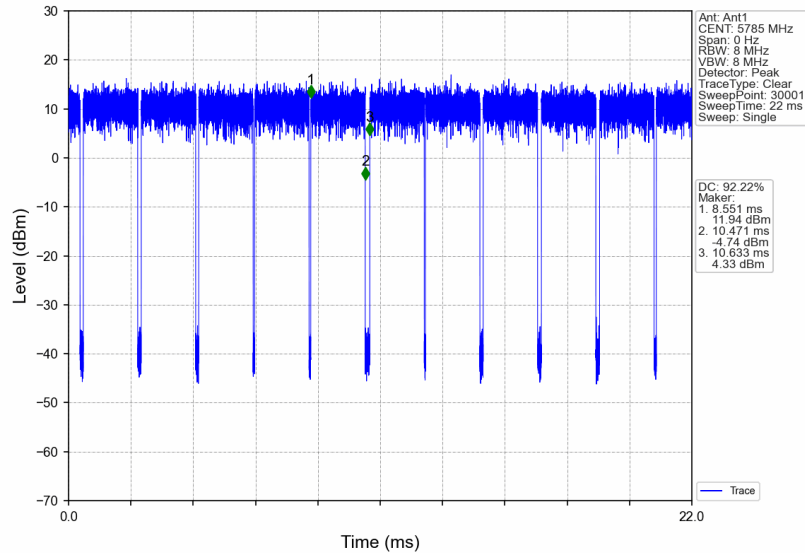
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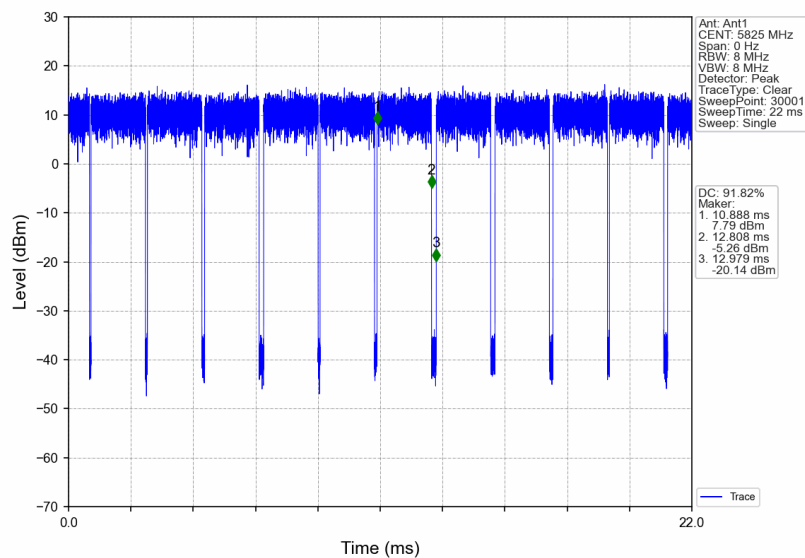
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802.11n(HT20)\_MCH\_5785MHz\_Ant1\_NTNV



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



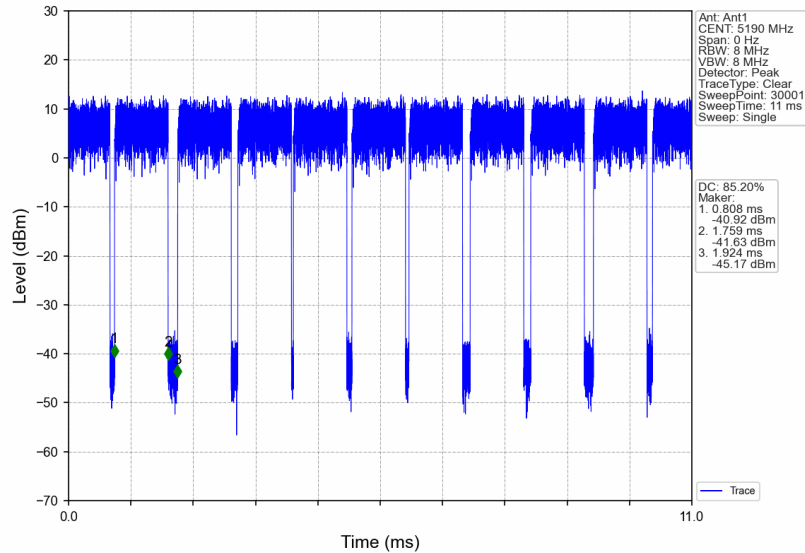
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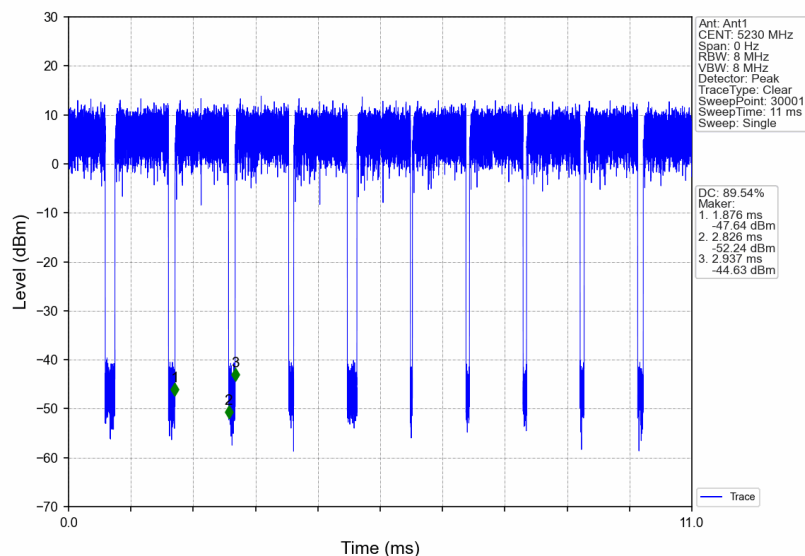
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### 802.11n(HT40)\_LCH\_5190MHz\_Ant1\_NTNV



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



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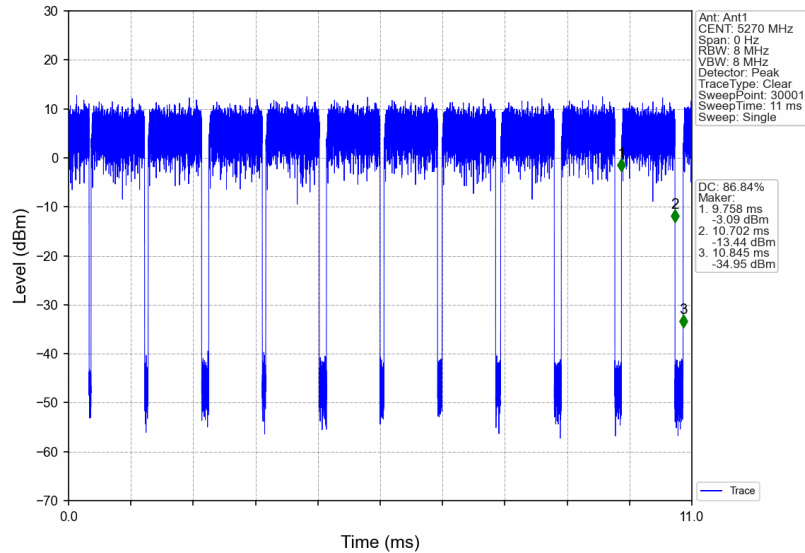
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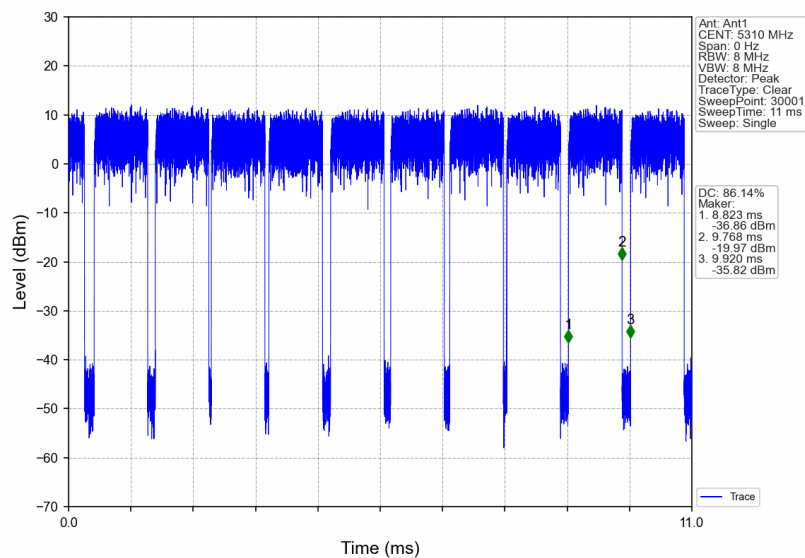
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### 802.11n(HT40)\_LCH\_5270MHz\_Ant1\_NTNV



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



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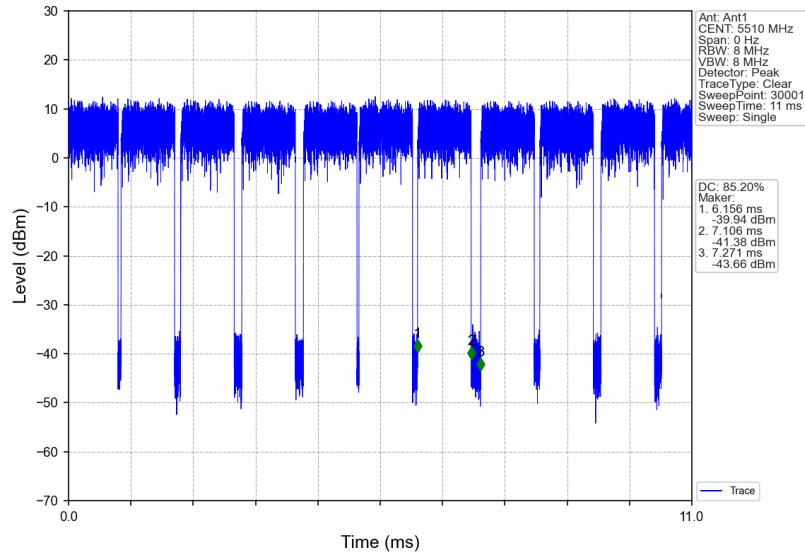
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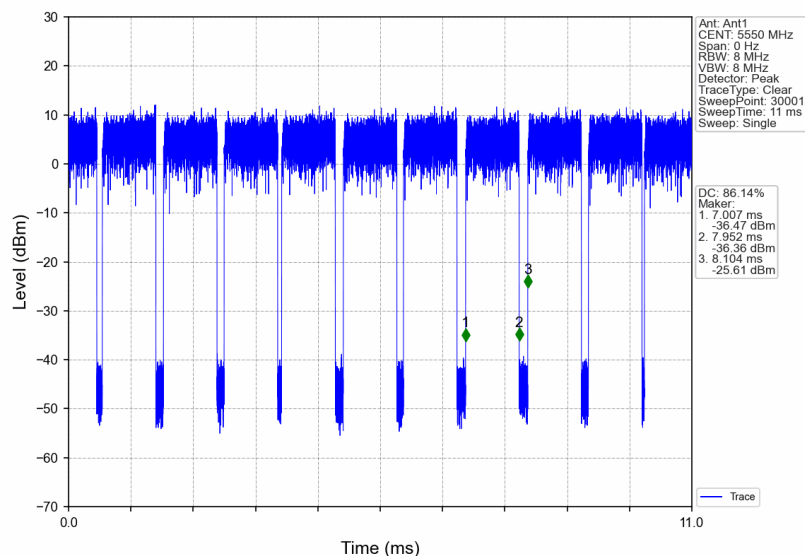
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### 802.11n(HT40)\_LCH\_5510MHz\_Ant1\_NTNV



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



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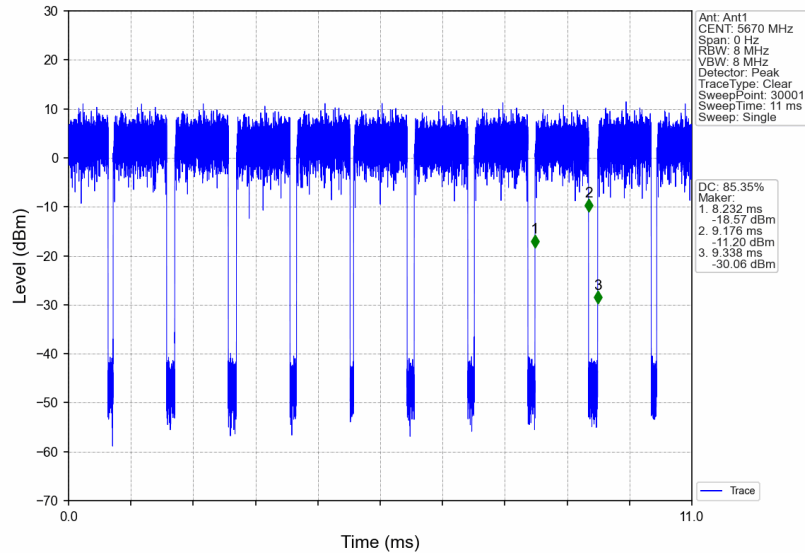
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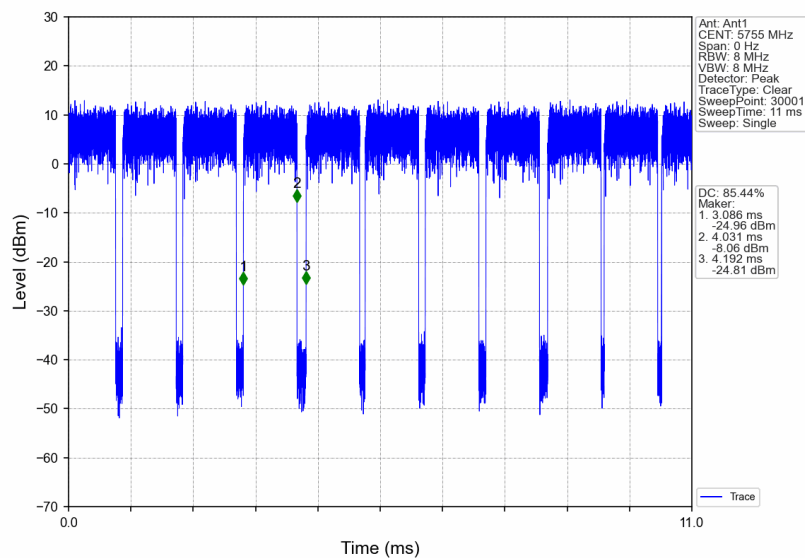
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### 802.11n(HT40)\_HCH\_5670MHz\_Ant1\_NTNV



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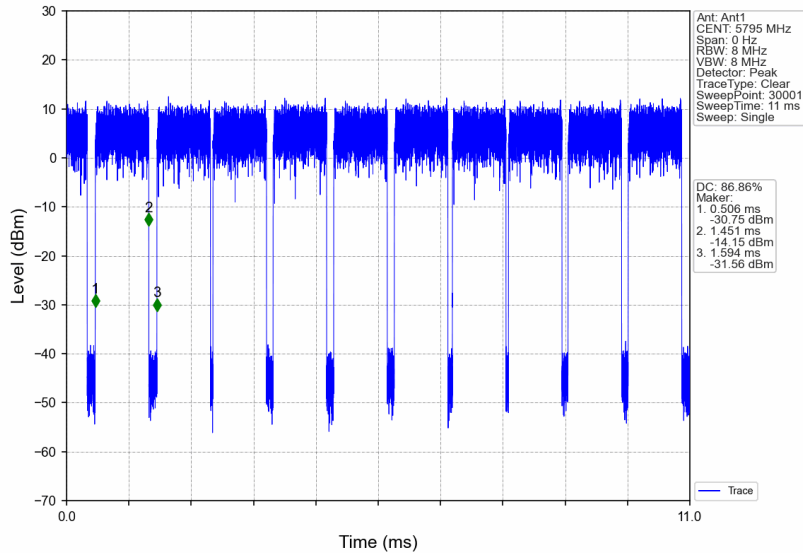
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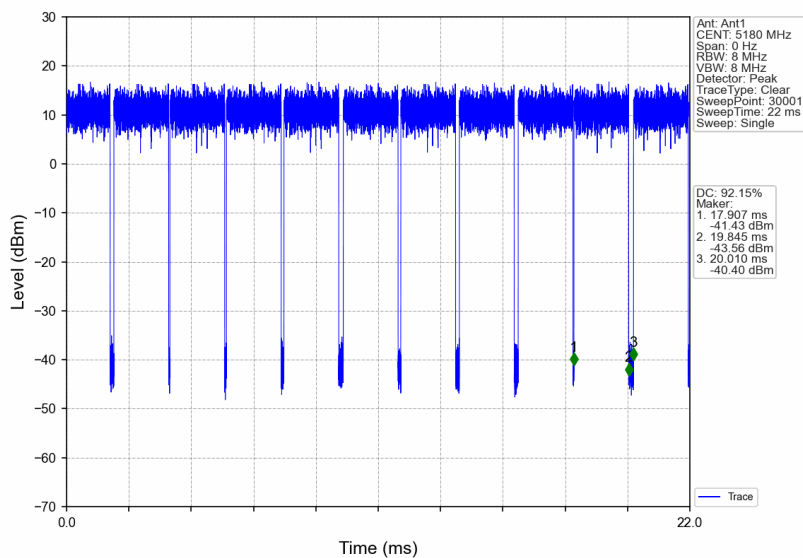
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### 802.11n(HT40)\_HCH\_5795MHz\_Ant1\_NTNV



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



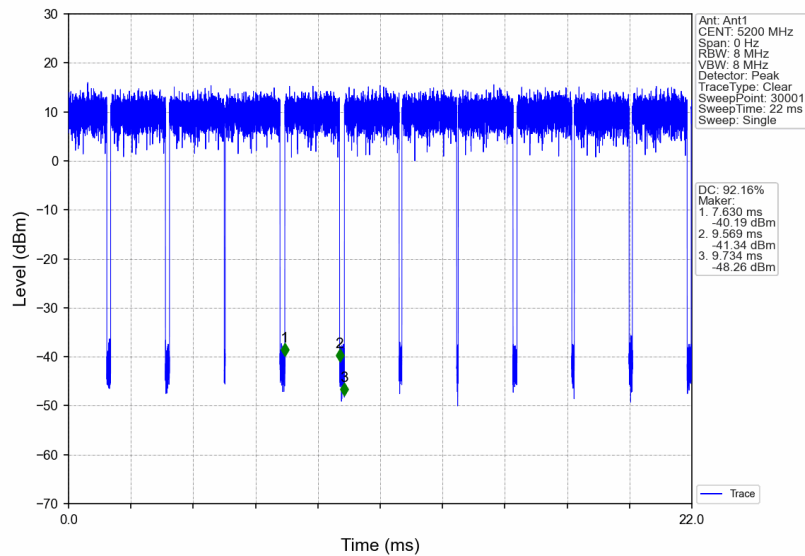
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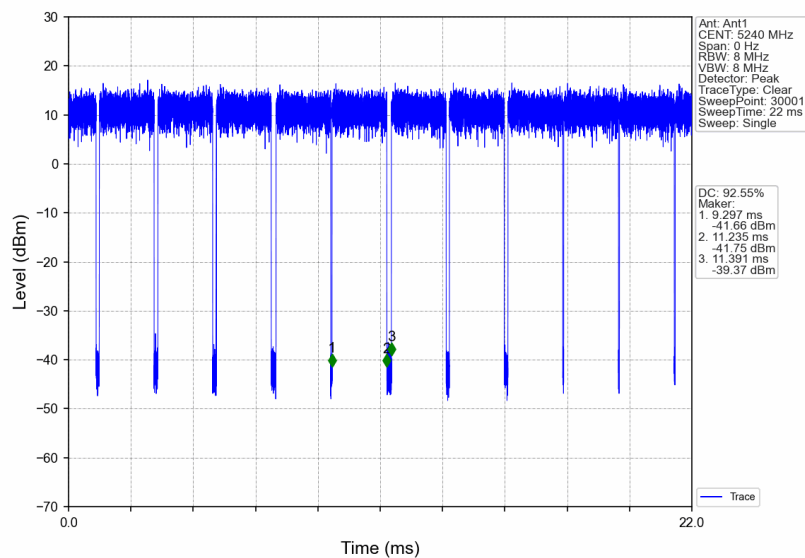
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802.11ac(VHT20)\_MCH\_5200MHz\_Ant1\_NTNV



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



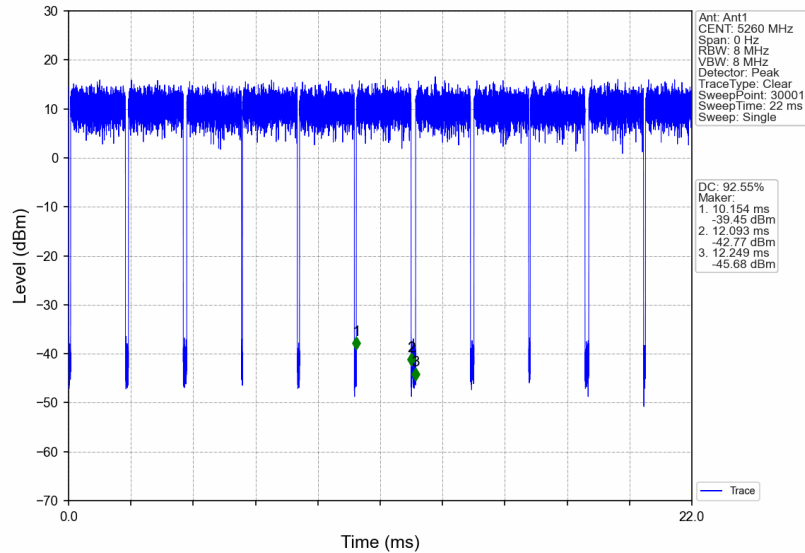
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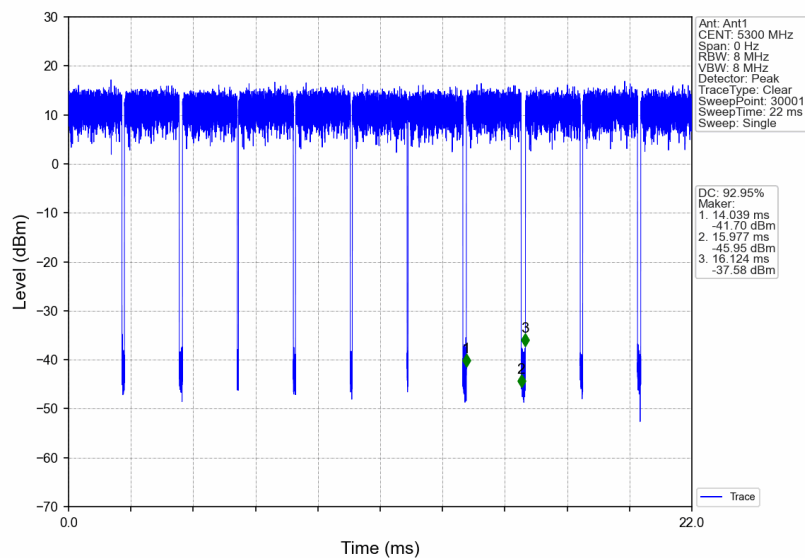
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### 802.11ac(VHT20)\_LCH\_5260MHz\_Ant1\_NTNV



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



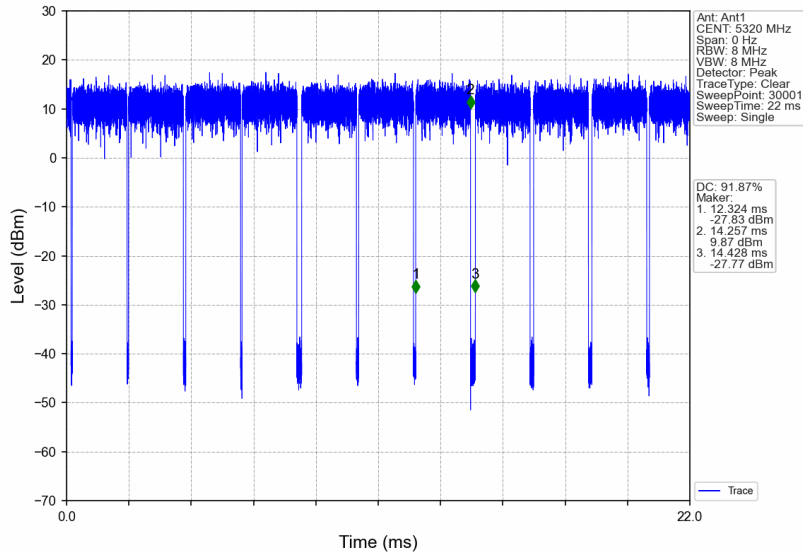
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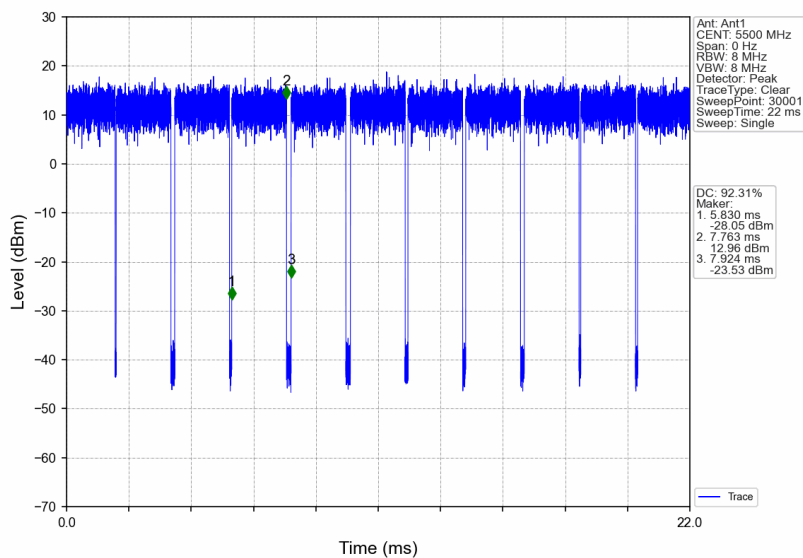
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### 802.11ac(VHT20)\_HCH\_5320MHz\_Ant1\_NTNV



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



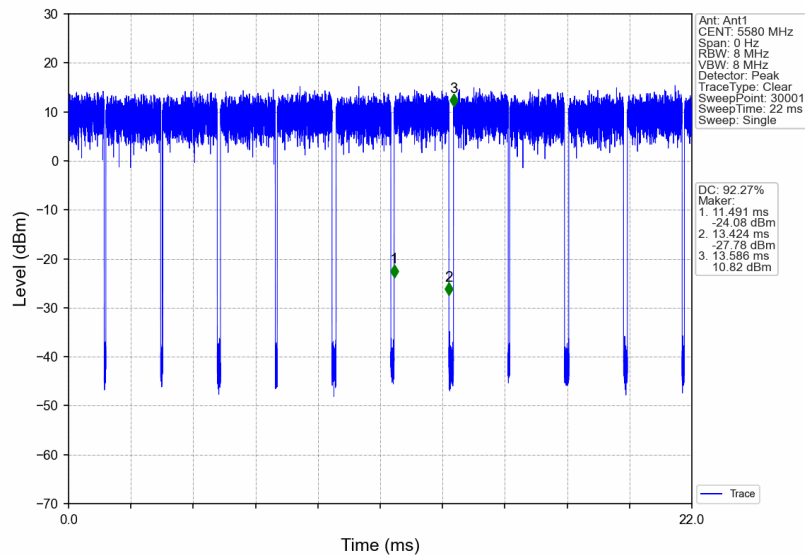
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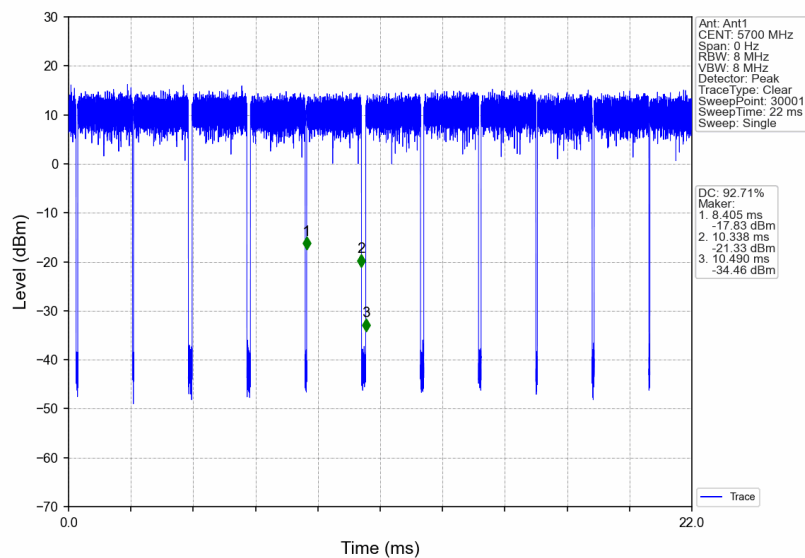
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802.11ac(VHT20)\_MCH\_5580MHz\_Ant1\_NTNV



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



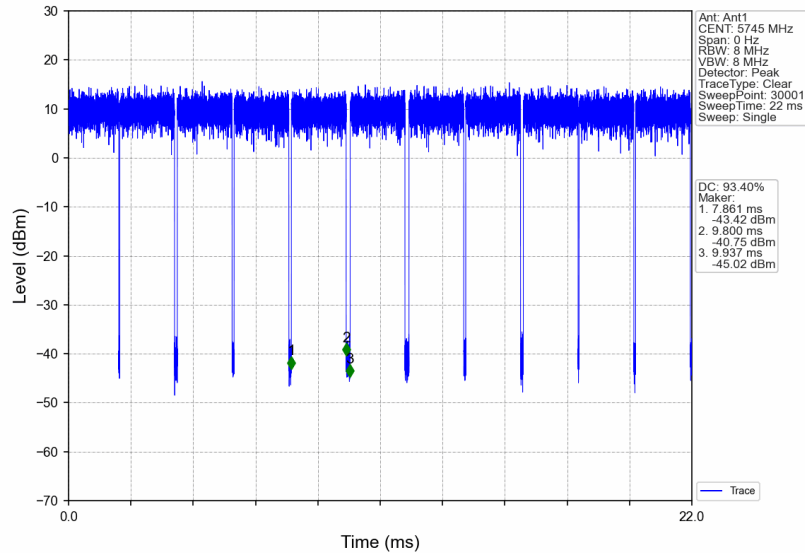
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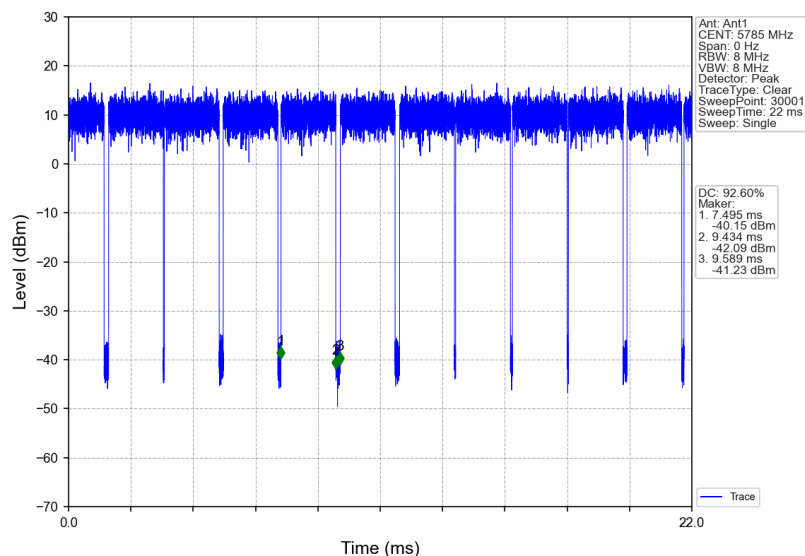
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### 802.11ac(VHT20)\_LCH\_5745MHz\_Ant1\_NTNV



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



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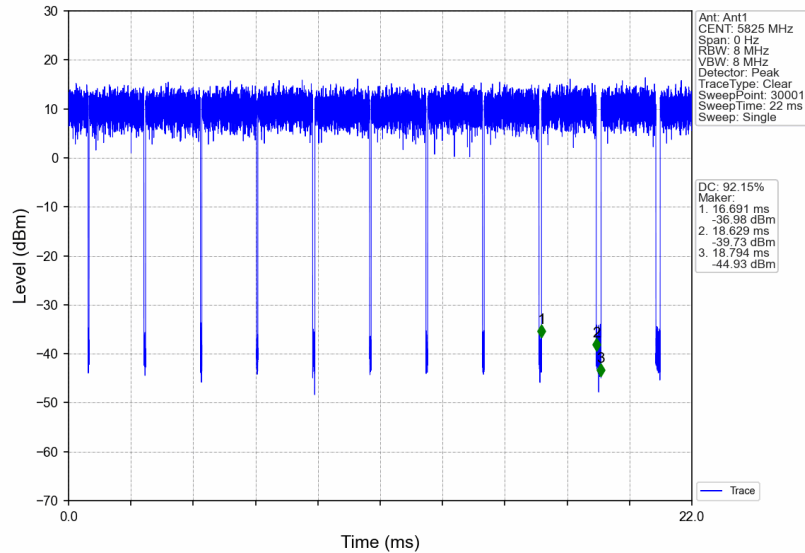
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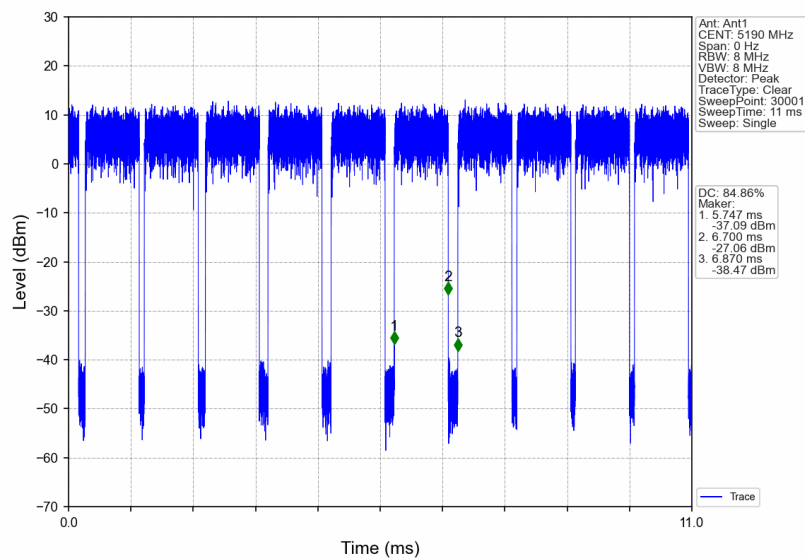
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### 802.11ac(VHT20)\_HCH\_5825MHz\_Ant1\_NTNV



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



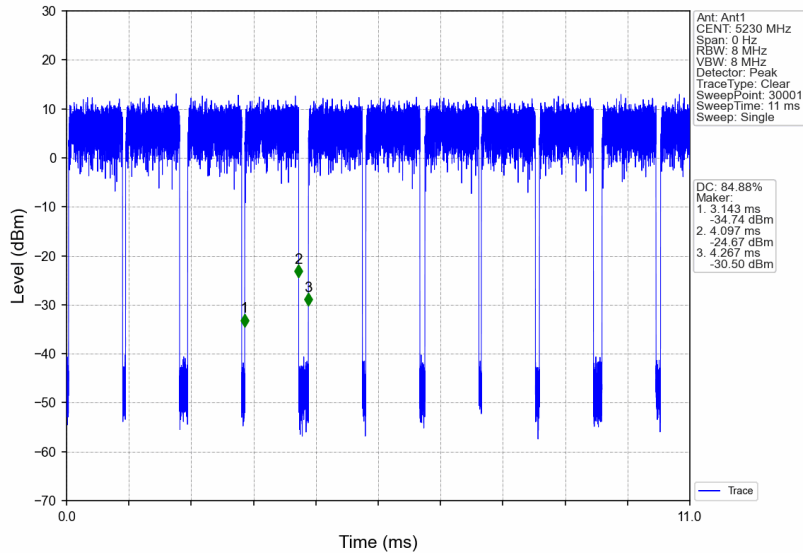
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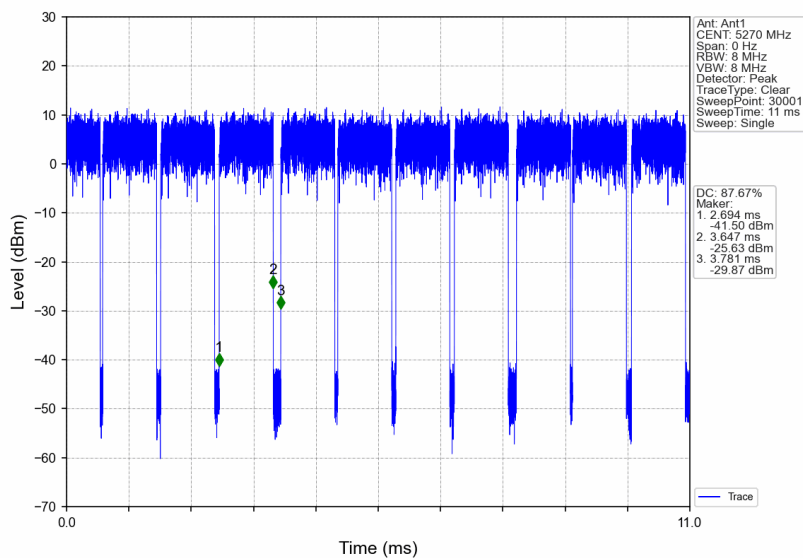
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### 802.11ac(VHT40)\_HCH\_5230MHz\_Ant1\_NTNV



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



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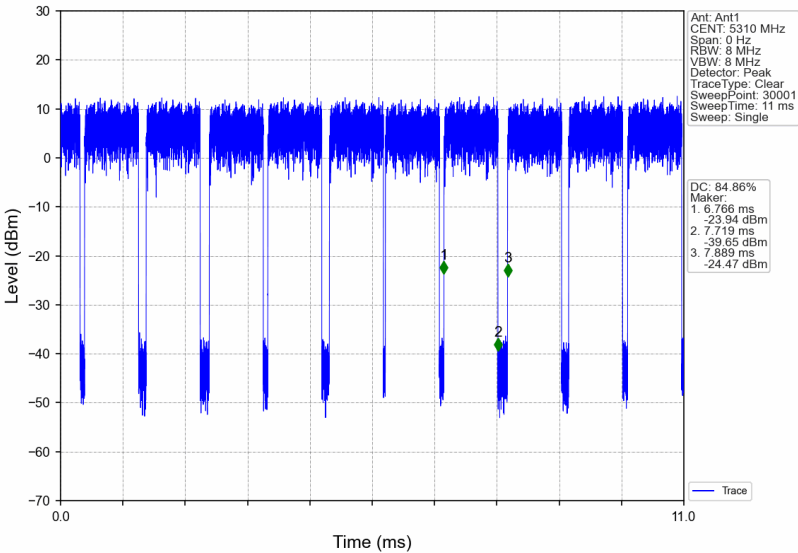
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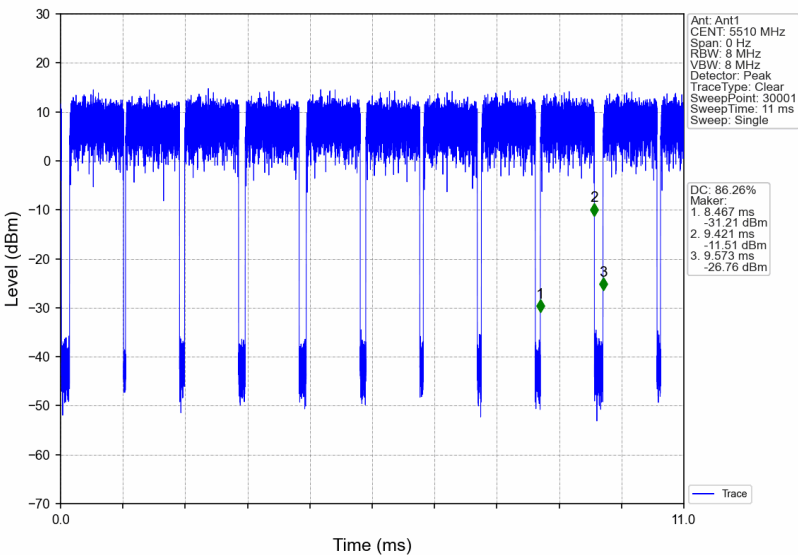
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802.11ac(VHT40)\_HCH\_5310MHz\_Ant1\_NTNV



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



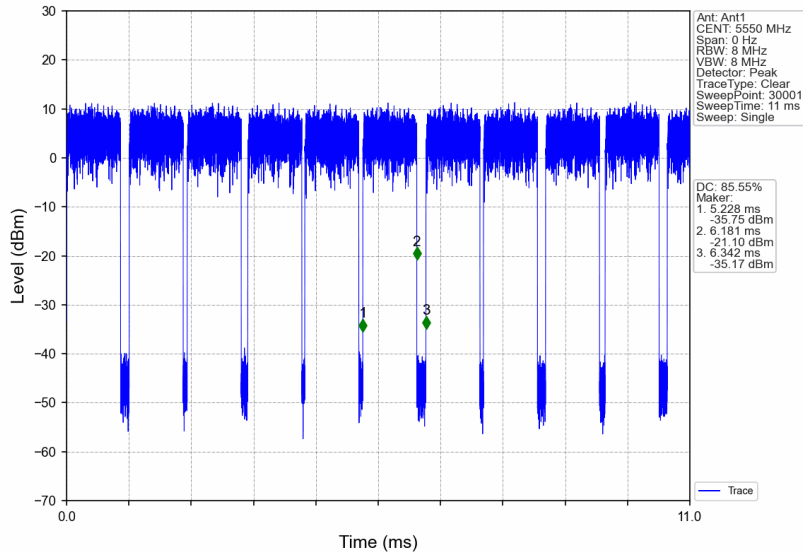
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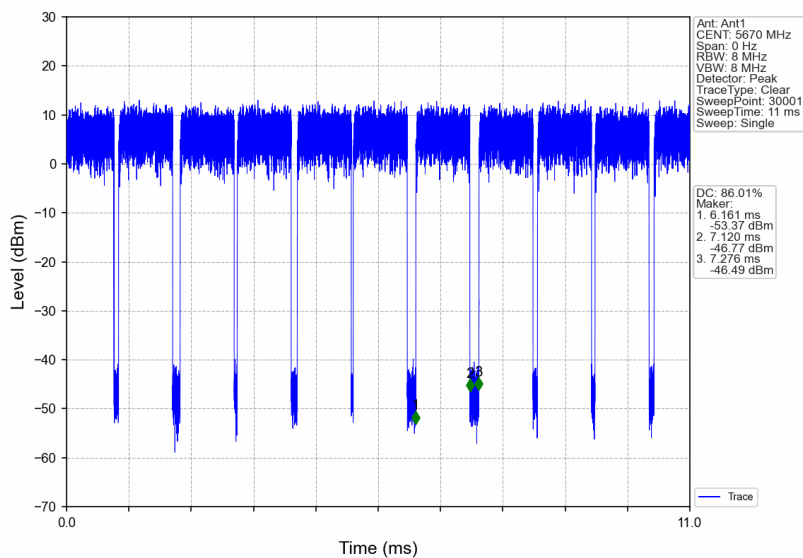
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802.11ac(VHT40)\_MCH\_5550MHz\_Ant1\_NTNV



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



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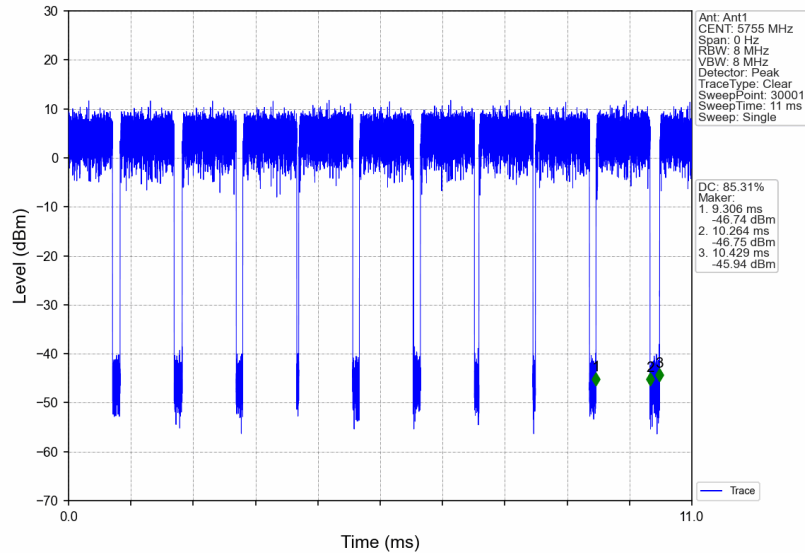
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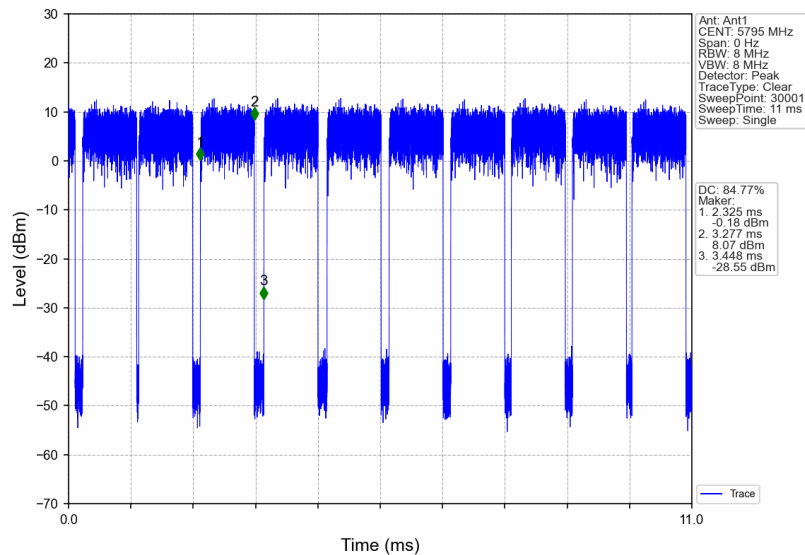
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### 802.11ac(VHT40)\_LCH\_5755MHz\_Ant1\_NTNV



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



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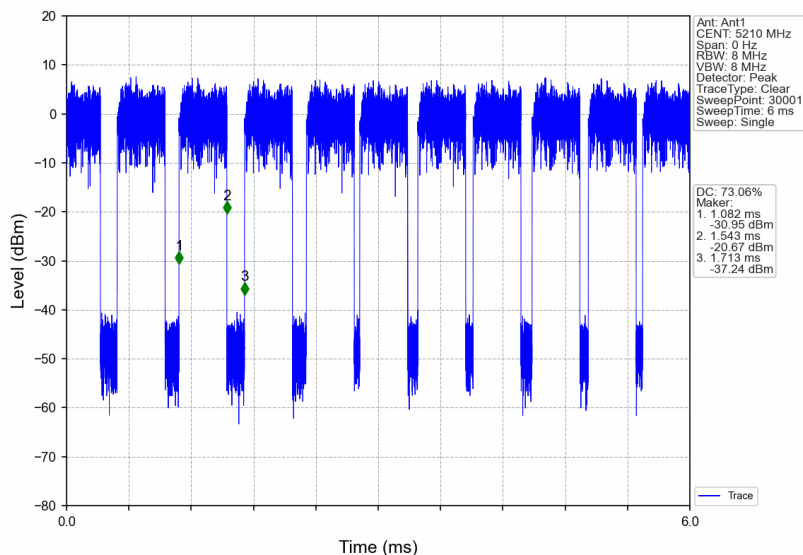
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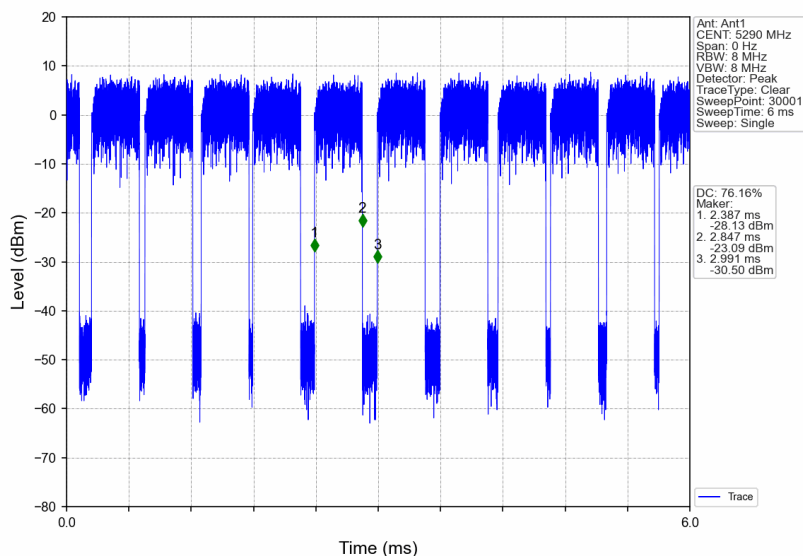
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802.11ac(VHT80)\_MCH\_5210MHz\_Ant1\_NTNV



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



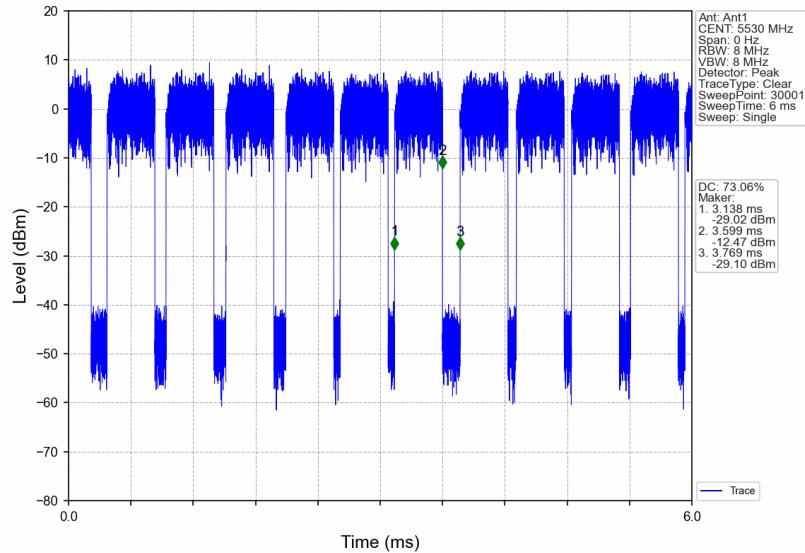
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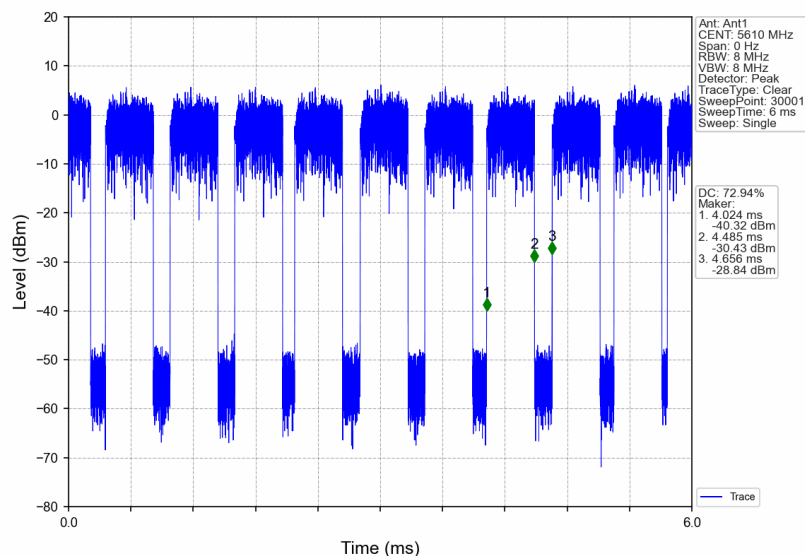
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### 802.11ac(VHT80)\_LCH\_5530MHz\_Ant1\_NTNV



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



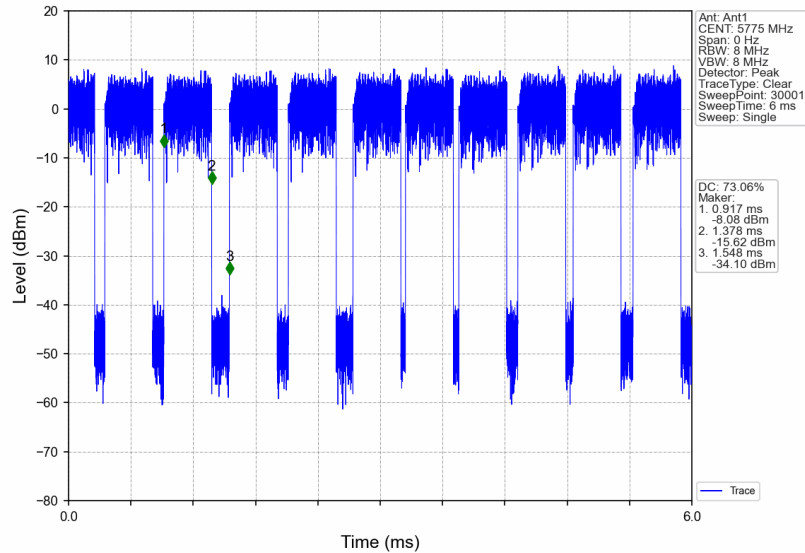
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### 802.11ac(VHT80)\_MCH\_5775MHz\_Ant1\_NTNV



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## 2. Bandwidth

### 2.1 OBW

#### 2.1.1 Test Result

| Mode           | TX Type | Frequency (MHz) | ANT | 99% Occupied Bandwidth (MHz) | Verdict |
|----------------|---------|-----------------|-----|------------------------------|---------|
|                |         |                 |     | Result                       |         |
| 802.11a        | SISO    | 5180            | 1   | 17.483                       | Pass    |
|                |         |                 | 2   | 17.581                       | Pass    |
|                |         | 5200            | 1   | 17.750                       | Pass    |
|                |         |                 | 2   | 18.053                       | Pass    |
|                |         | 5240            | 1   | 17.554                       | Pass    |
|                |         |                 | 2   | 18.756                       | Pass    |
|                |         | 5260            | 1   | 17.599                       | Pass    |
|                |         |                 | 2   | 18.134                       | Pass    |
|                |         | 5300            | 1   | 17.547                       | Pass    |
|                |         |                 | 2   | 19.490                       | Pass    |
|                |         | 5320            | 1   | 17.564                       | Pass    |
|                |         |                 | 2   | 19.302                       | Pass    |
|                |         | 5500            | 1   | 17.409                       | Pass    |
|                |         |                 | 2   | 18.046                       | Pass    |
|                |         | 5580            | 1   | 17.604                       | Pass    |
|                |         |                 | 2   | 17.900                       | Pass    |
|                |         | 5700            | 1   | 17.519                       | Pass    |
|                |         |                 | 2   | 17.845                       | Pass    |
|                |         | 5745            | 1   | 17.779                       | Pass    |
|                |         |                 | 2   | 20.540                       | Pass    |
|                |         | 5785            | 1   | 17.899                       | Pass    |
|                |         |                 | 2   | 19.241                       | Pass    |
|                |         | 5825            | 1   | 17.873                       | Pass    |
|                |         |                 | 2   | 18.738                       | Pass    |
| 802.11n (HT20) | MIMO    | 5180            | 1   | 18.664                       | Pass    |
|                |         |                 | 2   | 19.080                       | Pass    |
|                |         | 5200            | 1   | 18.658                       | Pass    |
|                |         |                 | 2   | 19.040                       | Pass    |
|                |         | 5240            | 1   | 18.457                       | Pass    |
|                |         |                 | 2   | 19.135                       | Pass    |
|                |         | 5260            | 1   | 18.516                       | Pass    |
|                |         |                 | 2   | 18.516                       | Pass    |



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## Compliance Certification Services (Kunshan) Inc.

Report No.: KSCR221000189202

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|                     |      |      |   |        |      |
|---------------------|------|------|---|--------|------|
|                     |      | 5300 | 2 | 19.068 | Pass |
|                     |      |      | 1 | 18.339 | Pass |
|                     |      |      | 2 | 18.916 | Pass |
|                     |      | 5320 | 1 | 18.532 | Pass |
|                     |      |      | 2 | 19.196 | Pass |
|                     |      | 5500 | 1 | 18.362 | Pass |
|                     |      |      | 2 | 18.674 | Pass |
|                     |      | 5580 | 1 | 18.491 | Pass |
|                     |      |      | 2 | 18.550 | Pass |
|                     |      | 5700 | 1 | 18.353 | Pass |
|                     |      |      | 2 | 18.421 | Pass |
|                     |      | 5745 | 1 | 18.955 | Pass |
|                     |      |      | 2 | 19.187 | Pass |
|                     |      | 5785 | 1 | 18.749 | Pass |
|                     |      |      | 2 | 18.911 | Pass |
|                     |      | 5825 | 1 | 18.684 | Pass |
|                     |      |      | 2 | 18.876 | Pass |
| 802.11n<br>(HT40)   | MIMO | 5190 | 1 | 37.257 | Pass |
|                     |      |      | 2 | 37.846 | Pass |
|                     |      | 5230 | 1 | 37.148 | Pass |
|                     |      |      | 2 | 37.614 | Pass |
|                     |      | 5270 | 1 | 37.683 | Pass |
|                     |      |      | 2 | 38.101 | Pass |
|                     |      | 5310 | 1 | 37.138 | Pass |
|                     |      |      | 2 | 37.741 | Pass |
|                     |      | 5510 | 1 | 37.735 | Pass |
|                     |      |      | 2 | 38.337 | Pass |
|                     |      | 5550 | 1 | 37.167 | Pass |
|                     |      |      | 2 | 37.372 | Pass |
|                     |      | 5670 | 1 | 37.322 | Pass |
|                     |      |      | 2 | 37.718 | Pass |
|                     |      | 5755 | 1 | 37.864 | Pass |
|                     |      |      | 2 | 40.571 | Pass |
|                     |      | 5795 | 1 | 37.605 | Pass |
|                     |      |      | 2 | 39.082 | Pass |
| 802.11ac<br>(VHT20) | MIMO | 5180 | 1 | 18.630 | Pass |
|                     |      |      | 2 | 19.106 | Pass |
|                     |      | 5200 | 1 | 18.382 | Pass |
|                     |      |      | 2 | 19.208 | Pass |



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|---------------------|------|------|---|--------|------|
|                     |      | 5240 | 1 | 18.482 | Pass |
|                     |      |      | 2 | 19.003 | Pass |
|                     |      | 5260 | 1 | 18.462 | Pass |
|                     |      |      | 2 | 18.920 | Pass |
|                     |      | 5300 | 1 | 18.412 | Pass |
|                     |      |      | 2 | 18.850 | Pass |
|                     |      | 5320 | 1 | 18.508 | Pass |
|                     |      |      | 2 | 18.886 | Pass |
|                     |      | 5500 | 1 | 18.523 | Pass |
|                     |      |      | 2 | 18.886 | Pass |
|                     |      | 5580 | 1 | 18.333 | Pass |
|                     |      |      | 2 | 18.792 | Pass |
|                     |      | 5700 | 1 | 18.849 | Pass |
|                     |      |      | 2 | 18.838 | Pass |
|                     |      | 5745 | 1 | 18.839 | Pass |
|                     |      |      | 2 | 19.009 | Pass |
|                     |      | 5785 | 1 | 18.482 | Pass |
|                     |      |      | 2 | 18.638 | Pass |
|                     |      | 5825 | 1 | 18.792 | Pass |
|                     |      |      | 2 | 18.936 | Pass |
| 802.11ac<br>(VHT40) | MIMO | 5190 | 1 | 37.419 | Pass |
|                     |      |      | 2 | 37.915 | Pass |
|                     |      | 5230 | 1 | 37.314 | Pass |
|                     |      |      | 2 | 37.728 | Pass |
|                     |      | 5270 | 1 | 37.515 | Pass |
|                     |      |      | 2 | 38.304 | Pass |
|                     |      | 5310 | 1 | 37.077 | Pass |
|                     |      |      | 2 | 37.925 | Pass |
|                     |      | 5510 | 1 | 37.482 | Pass |
|                     |      |      | 2 | 38.038 | Pass |
|                     |      | 5550 | 1 | 37.318 | Pass |
|                     |      |      | 2 | 37.656 | Pass |
|                     |      | 5670 | 1 | 37.571 | Pass |
|                     |      |      | 2 | 38.581 | Pass |
|                     |      | 5755 | 1 | 37.545 | Pass |
|                     |      |      | 2 | 38.564 | Pass |
|                     |      | 5795 | 1 | 38.069 | Pass |
|                     |      |      | 2 | 39.161 | Pass |
| 802.11ac            | MIMO | 5210 | 1 | 76.754 | Pass |



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|         |  |      |   |        |      |
|---------|--|------|---|--------|------|
| (VHT80) |  | 5290 | 2 | 77.613 | Pass |
|         |  |      | 1 | 76.704 | Pass |
|         |  |      | 2 | 78.688 | Pass |
|         |  | 5530 | 1 | 76.880 | Pass |
|         |  |      | 2 | 77.628 | Pass |
|         |  | 5610 | 1 | 76.207 | Pass |
|         |  |      | 2 | 77.084 | Pass |
|         |  | 5775 | 1 | 77.271 | Pass |
|         |  |      | 2 | 79.248 | Pass |



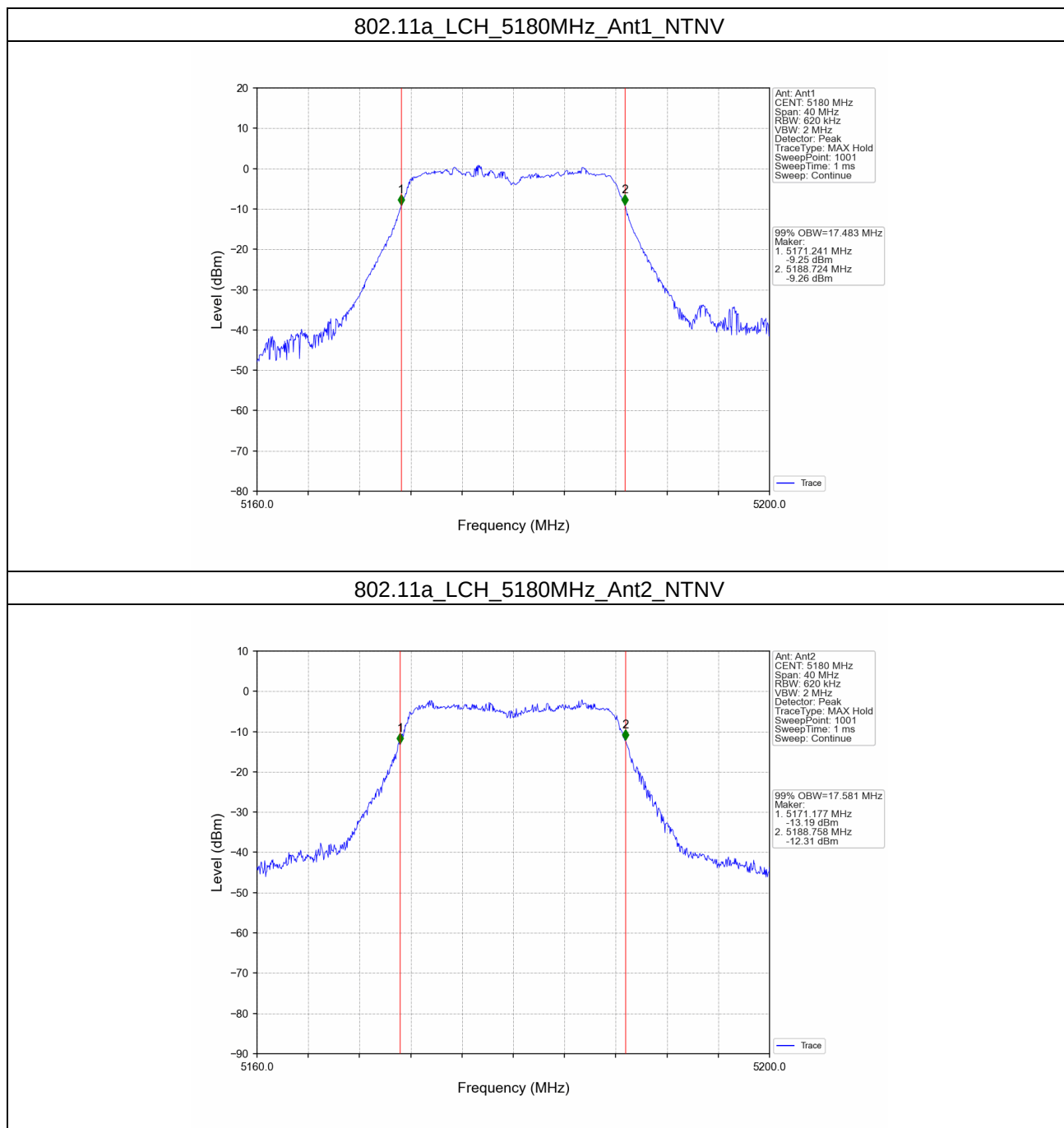
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### 2.1.2 Test Graph



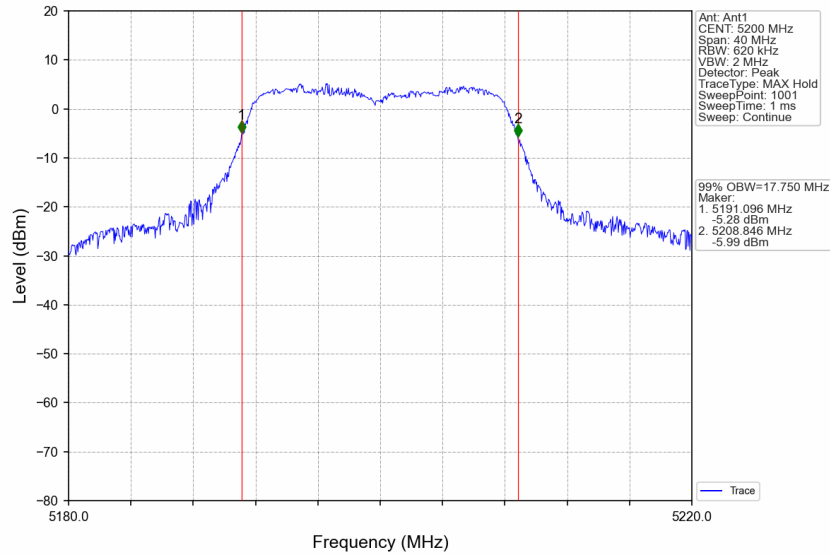
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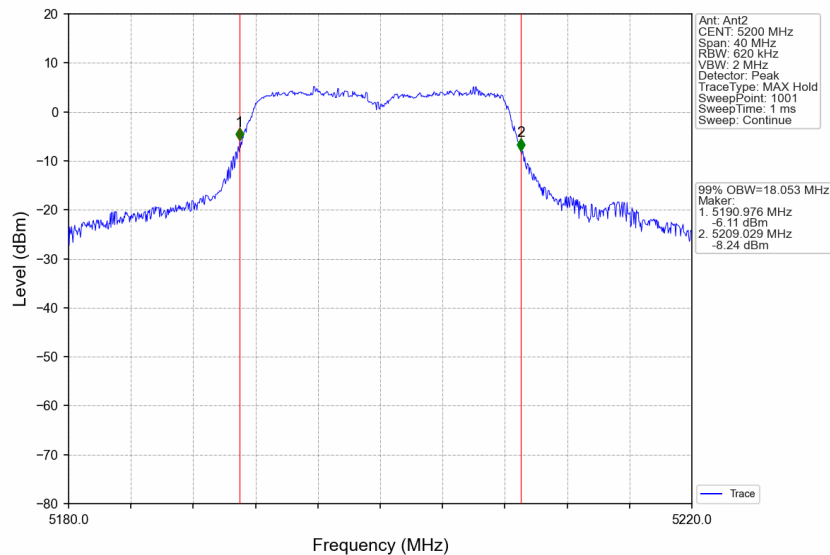
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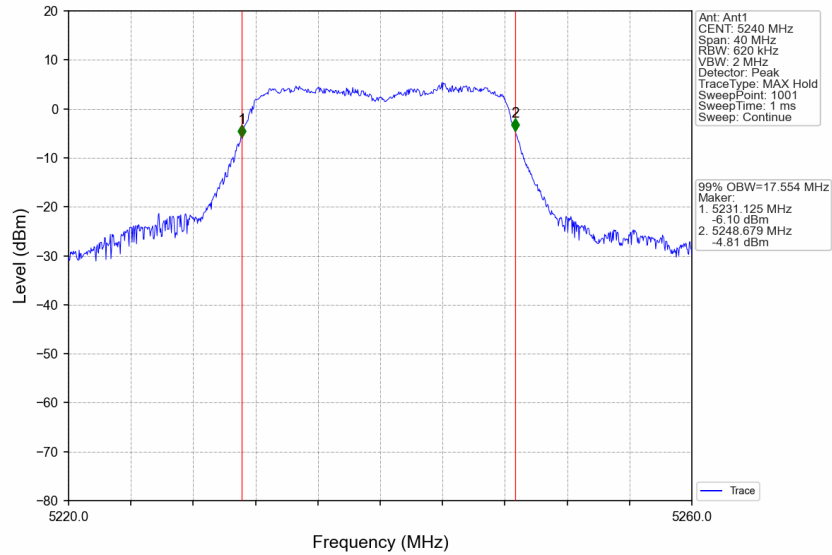
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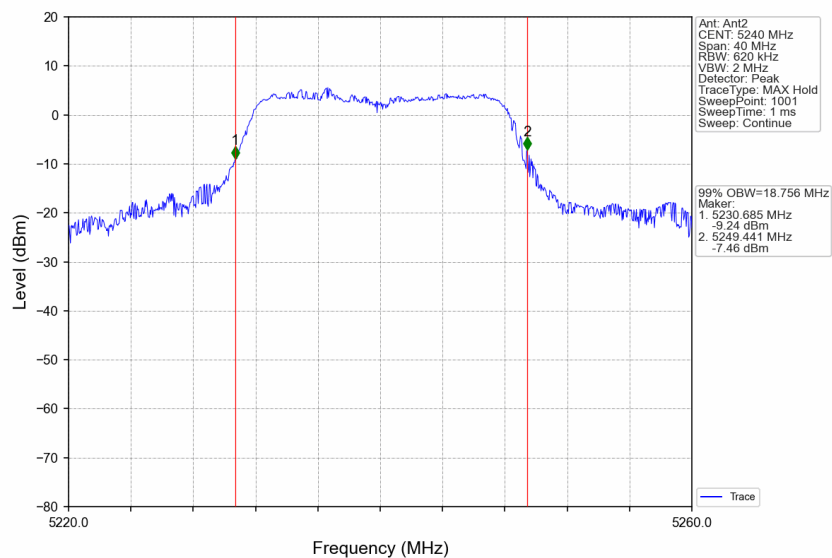
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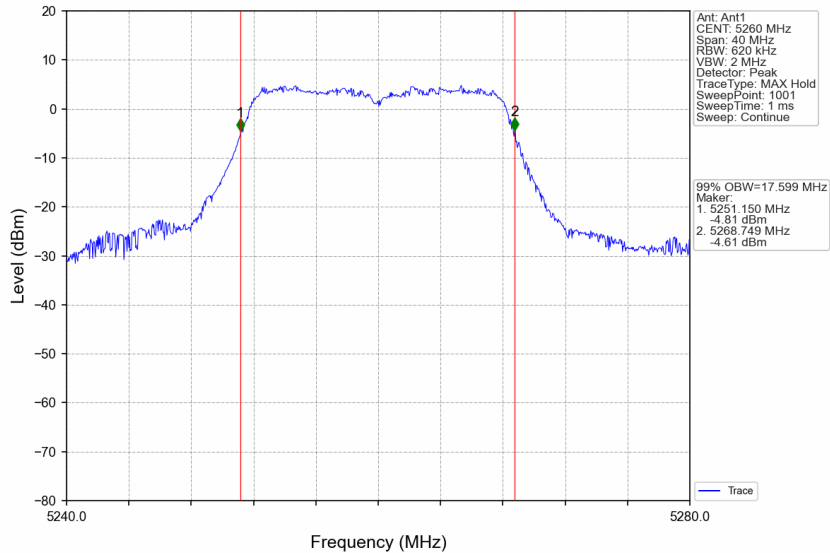
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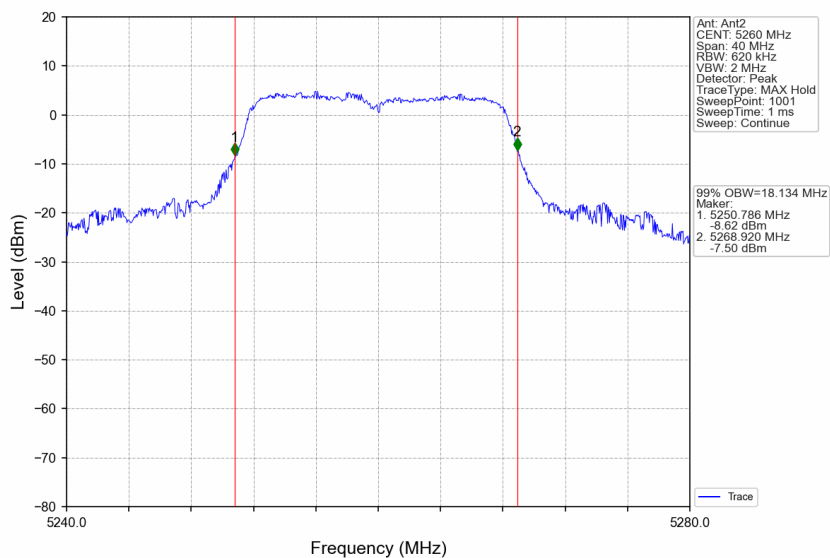
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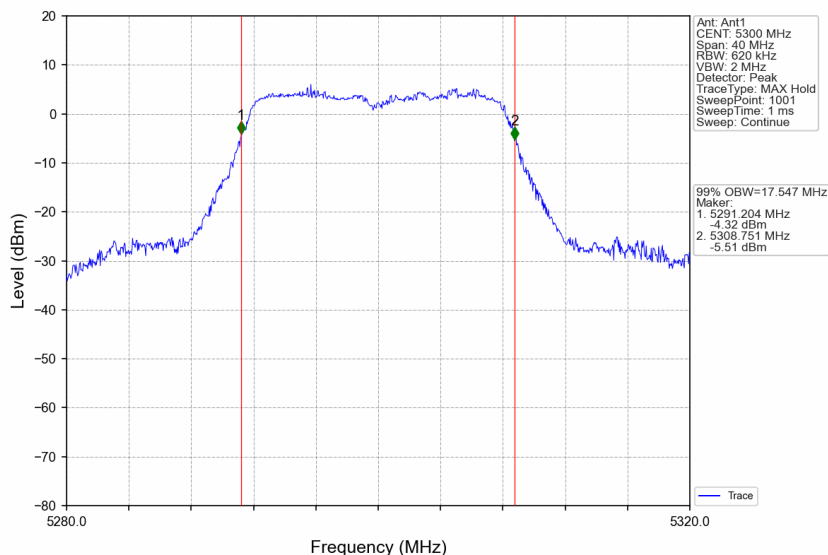
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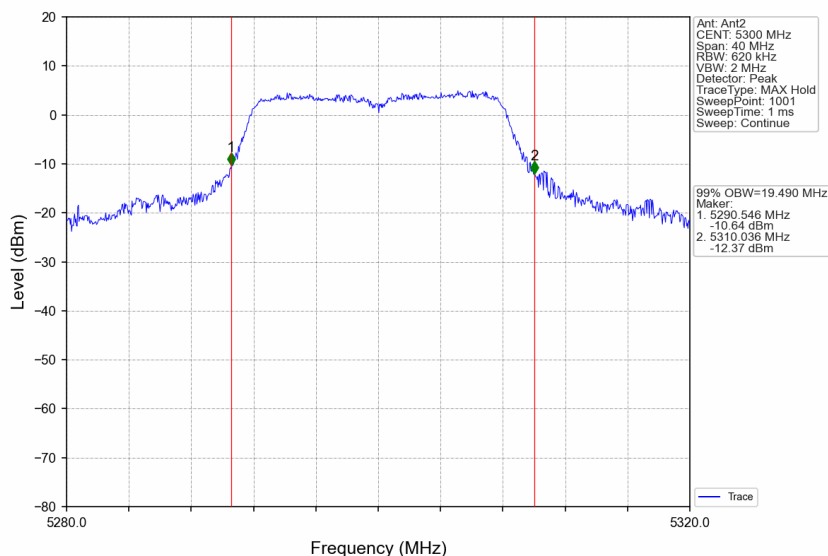
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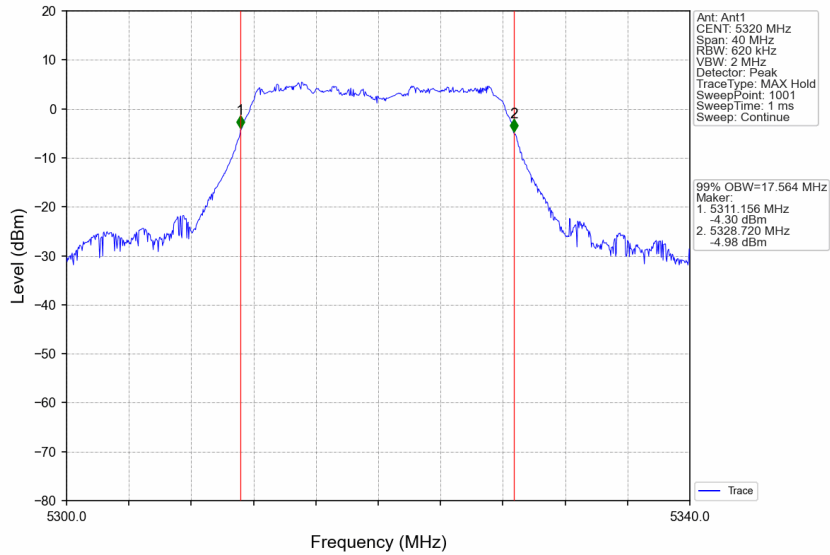
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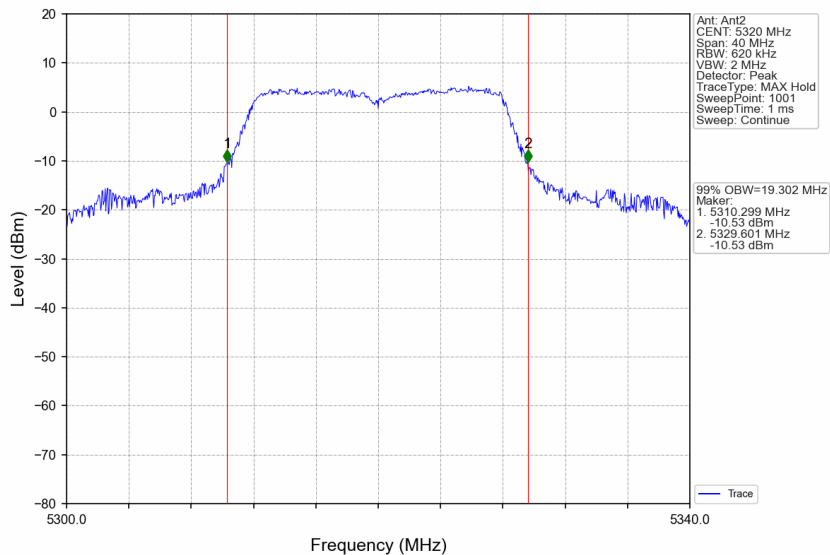
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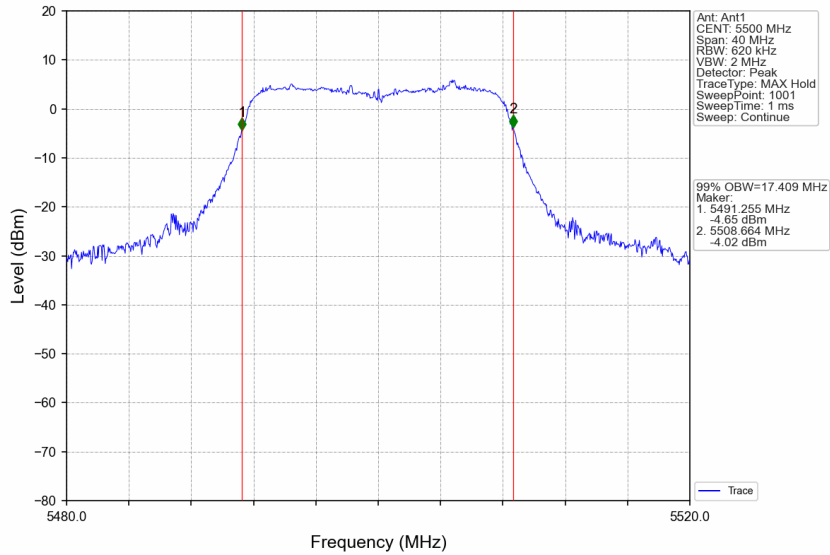
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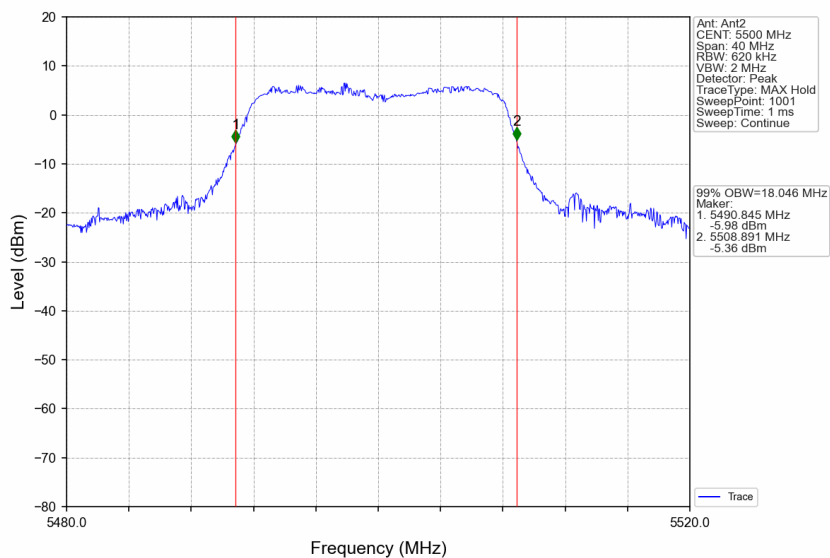
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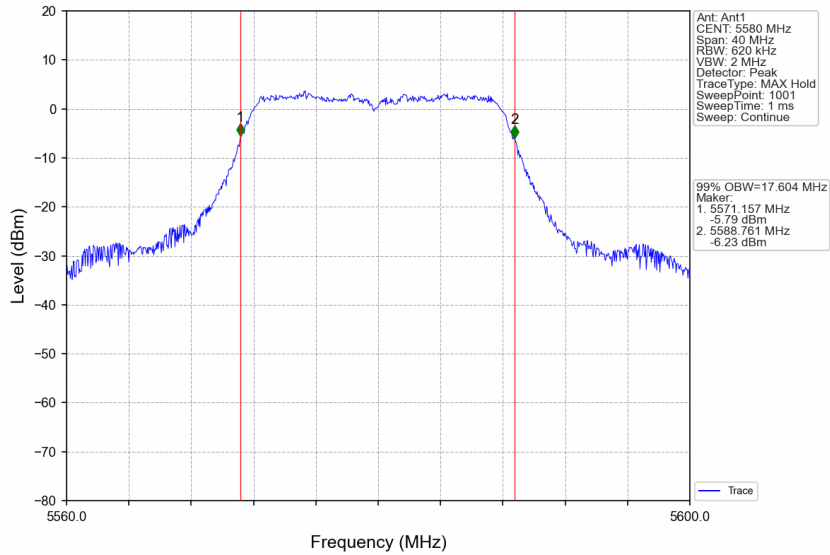
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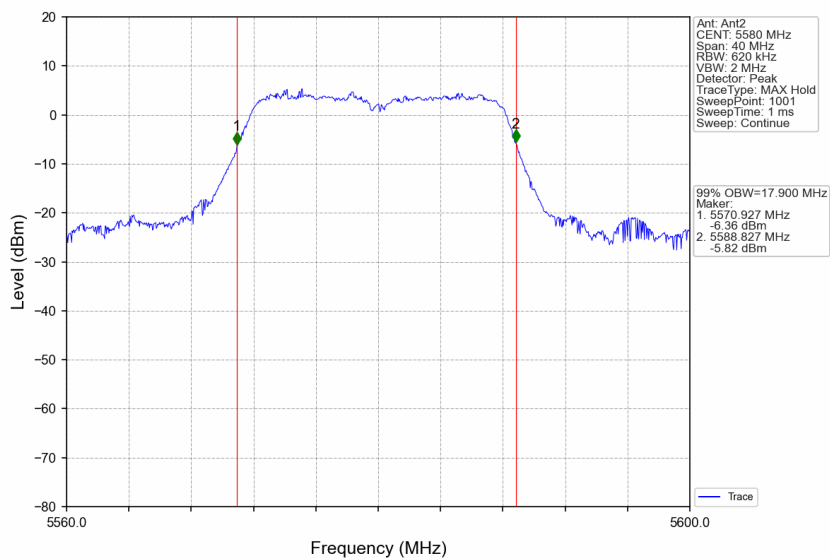
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802.11a\_MCH\_5580MHz\_Ant1\_NTNV



802.11a\_MCH\_5580MHz\_Ant2\_NTNV



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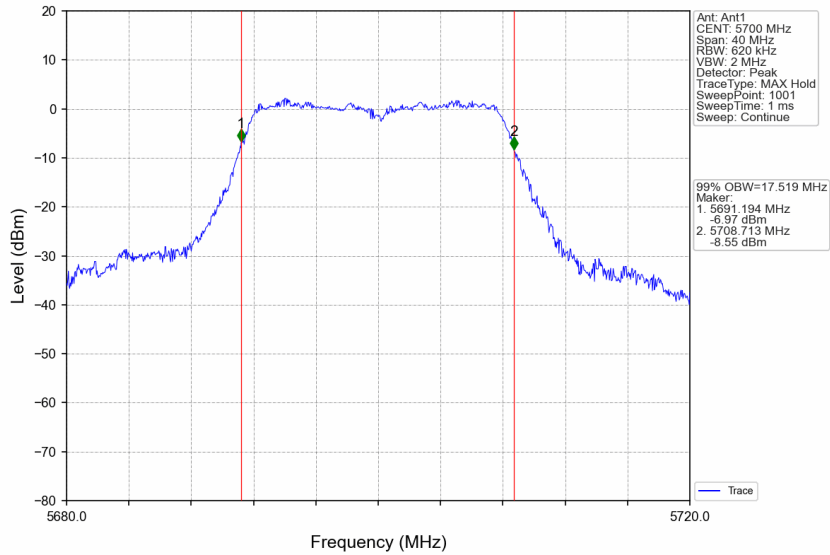
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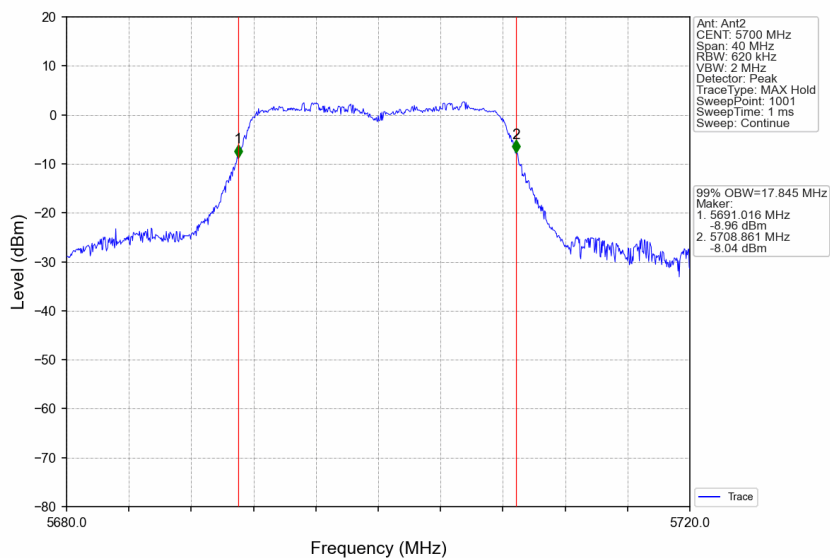
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### 802.11a\_HCH\_5700MHz\_Ant1\_NTNV



### 802.11a\_HCH\_5700MHz\_Ant2\_NTNV



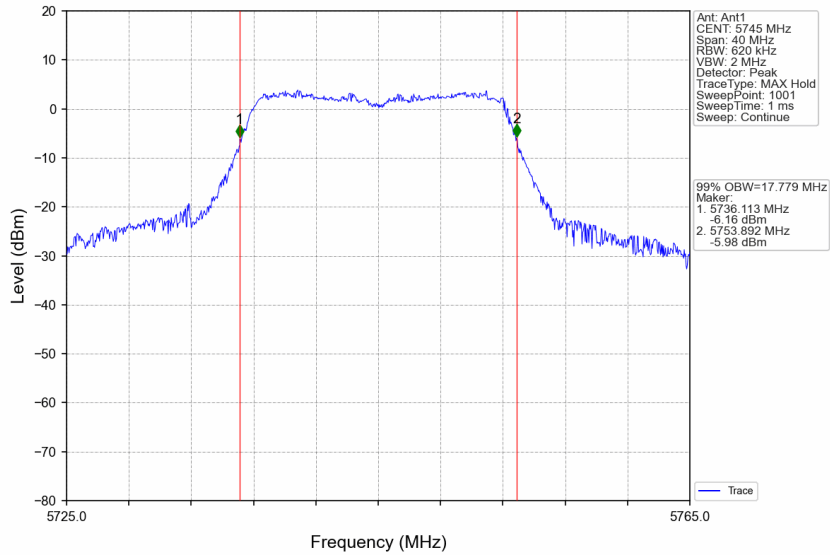
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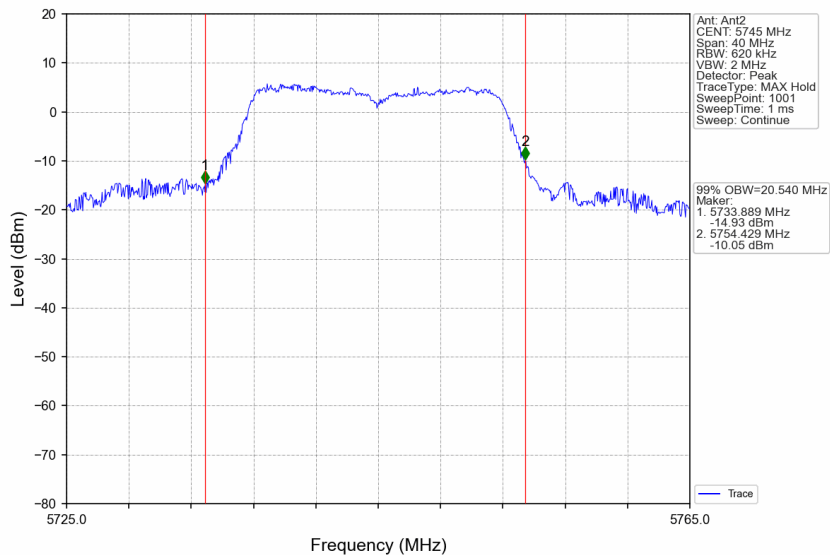
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802.11a\_LCH\_5745MHz\_Ant1\_NTNV



802.11a\_LCH\_5745MHz\_Ant2\_NTNV



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