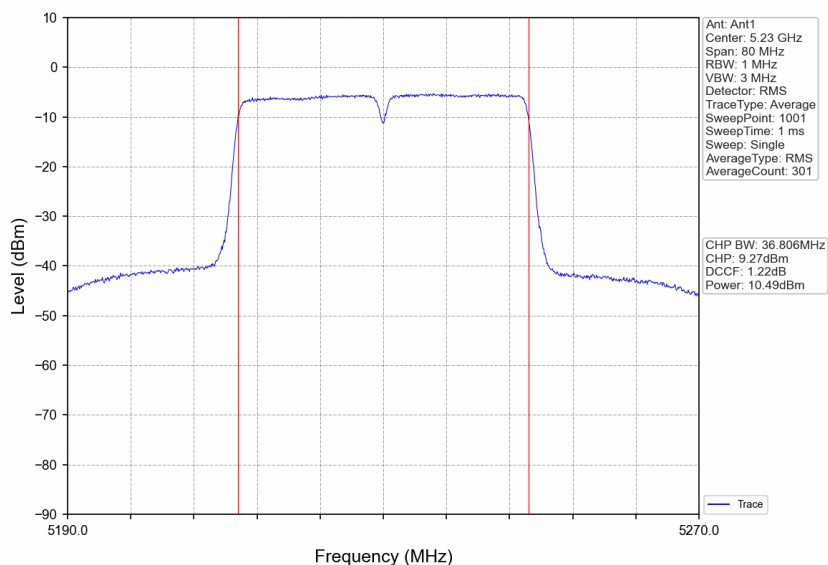
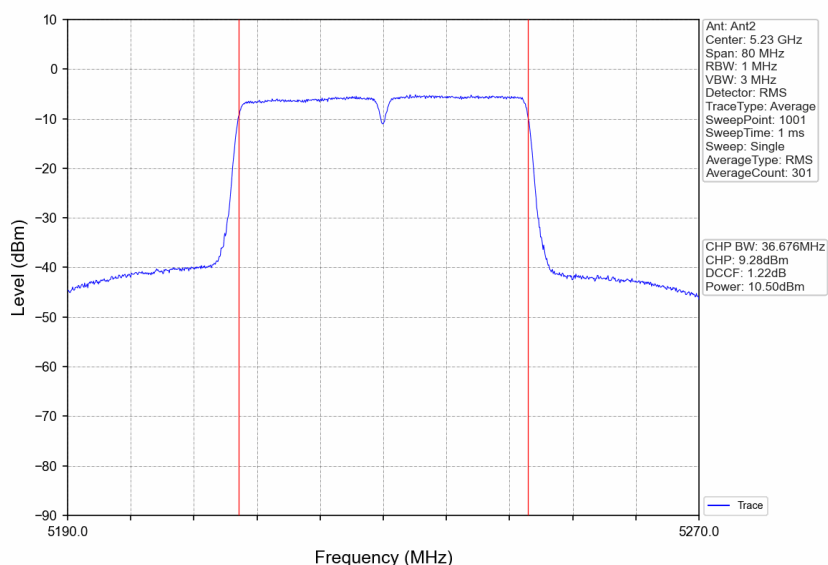


802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5230MHz_Ant2_NTNV



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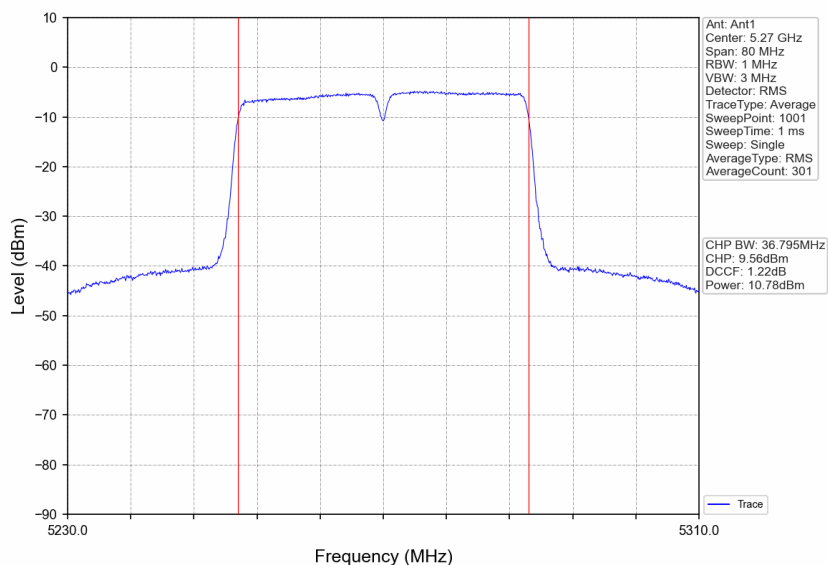
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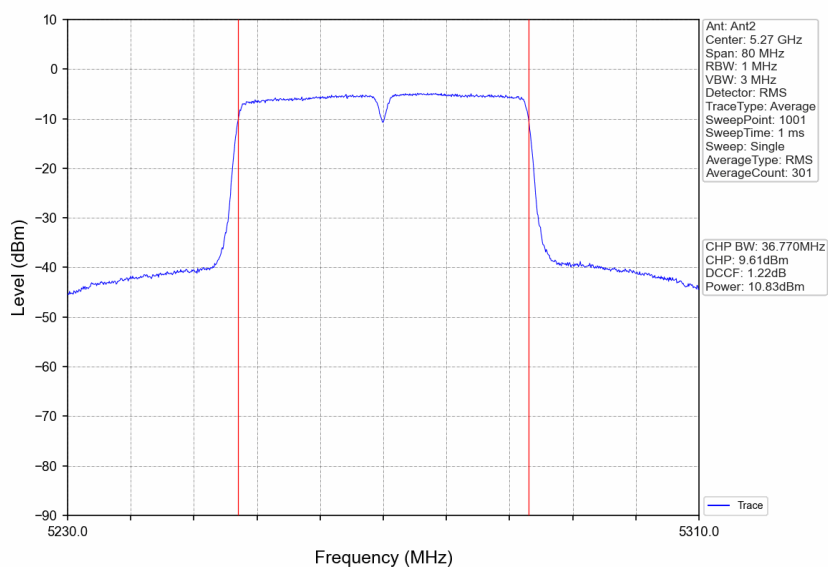
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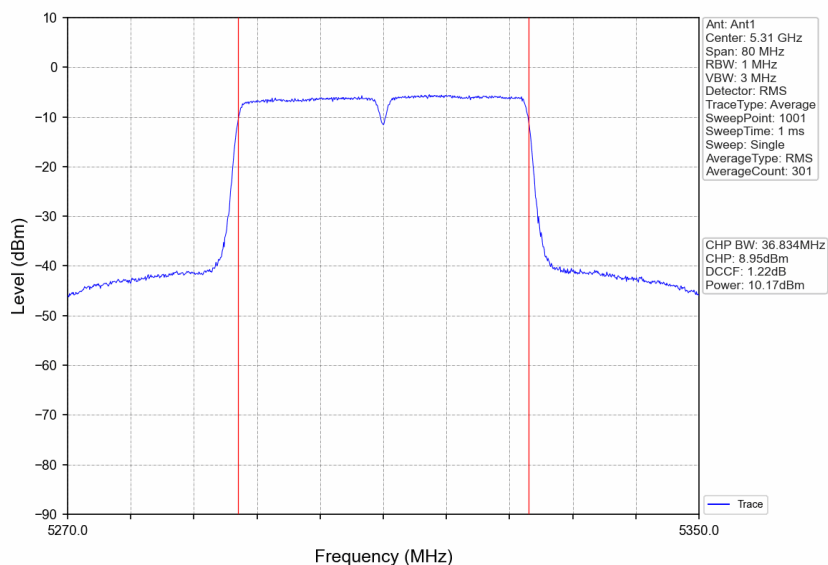
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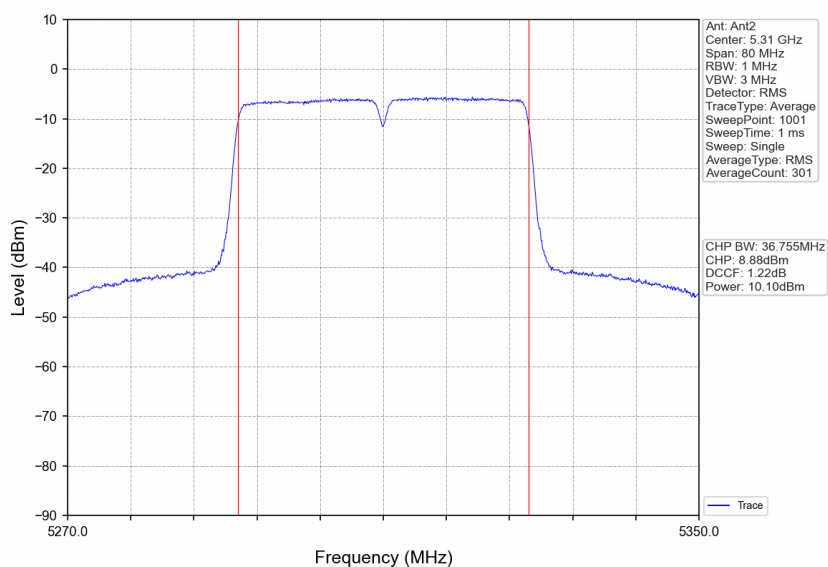
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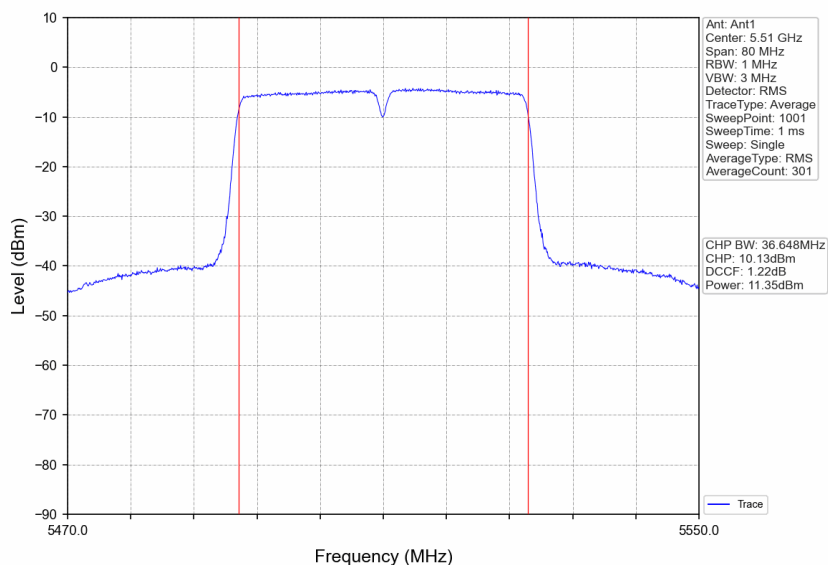
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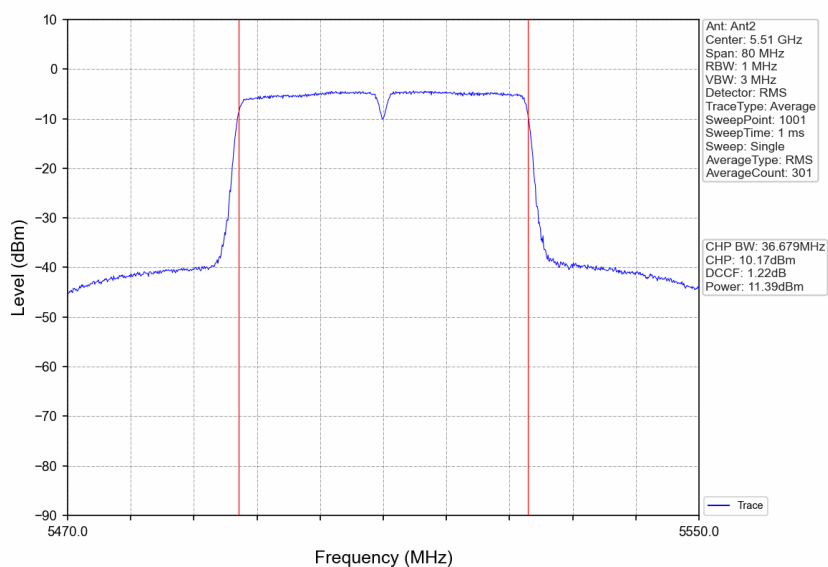
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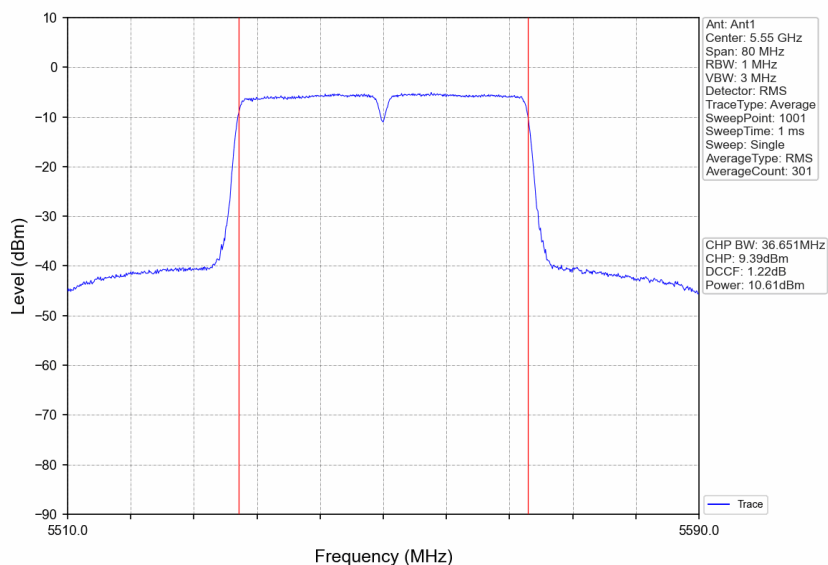
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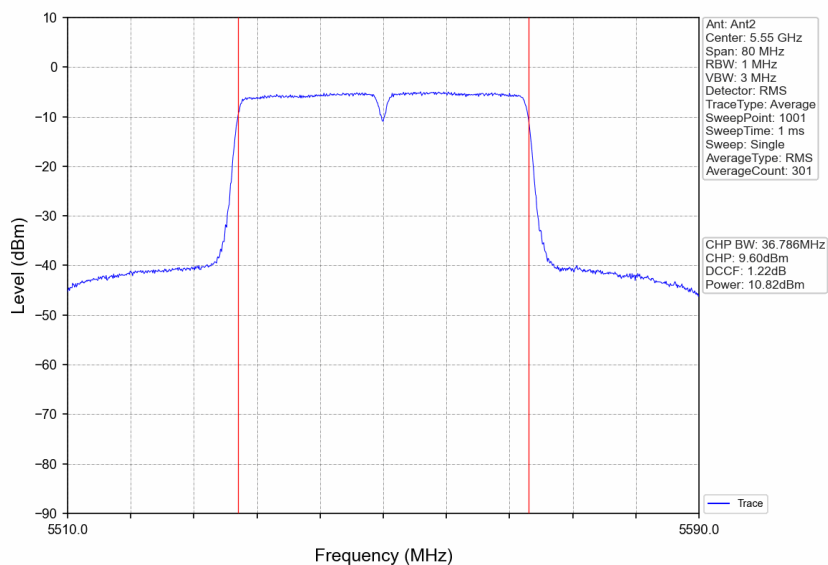
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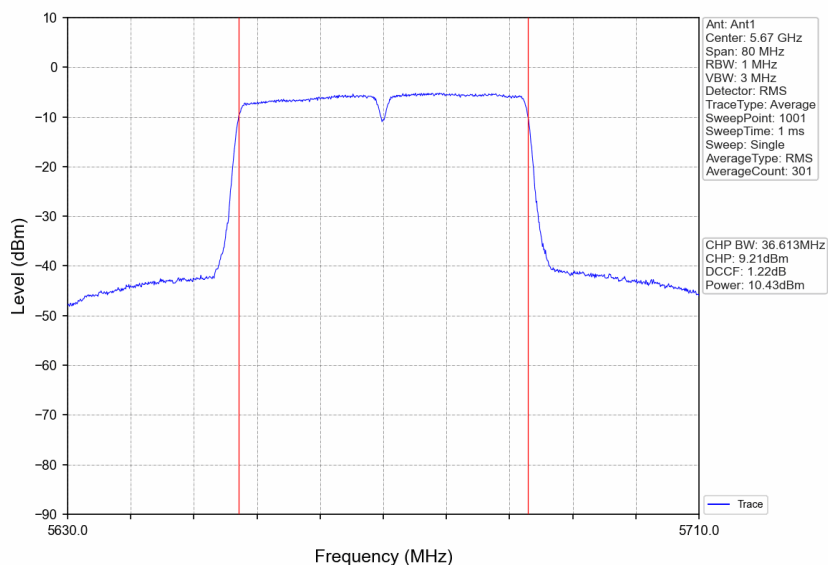
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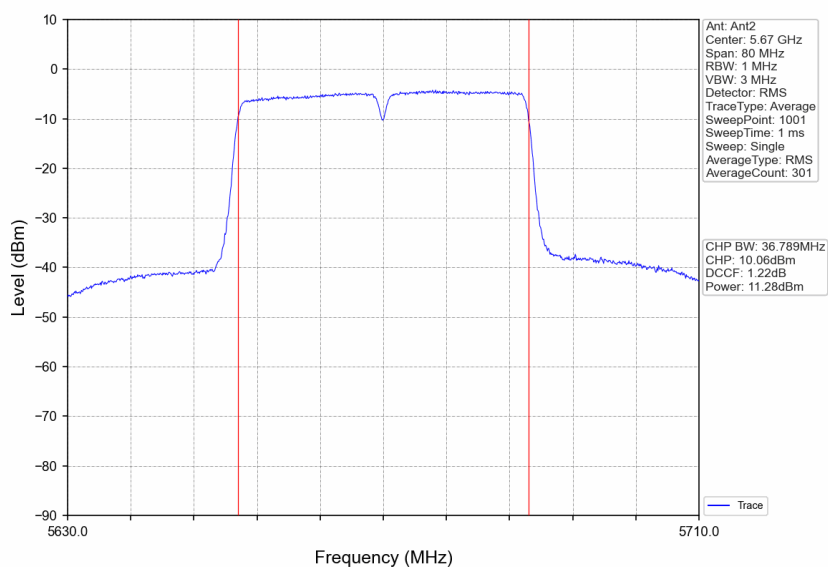
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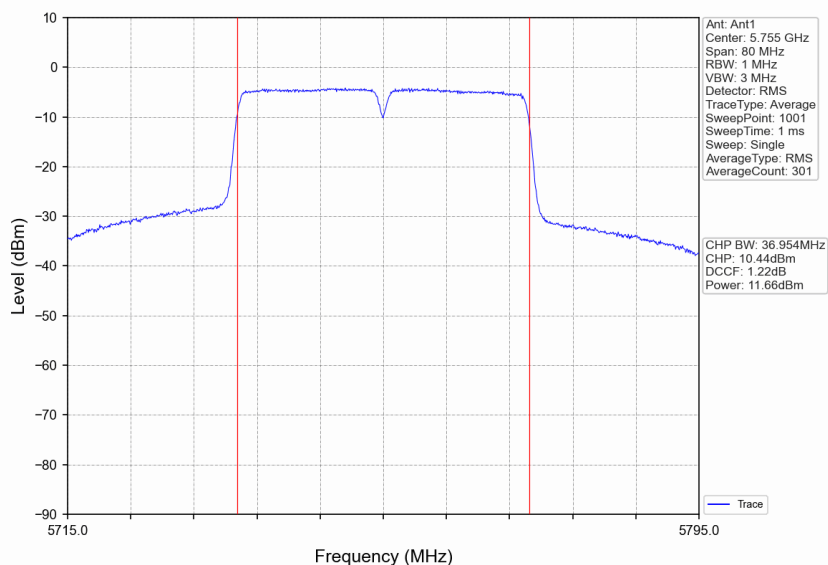
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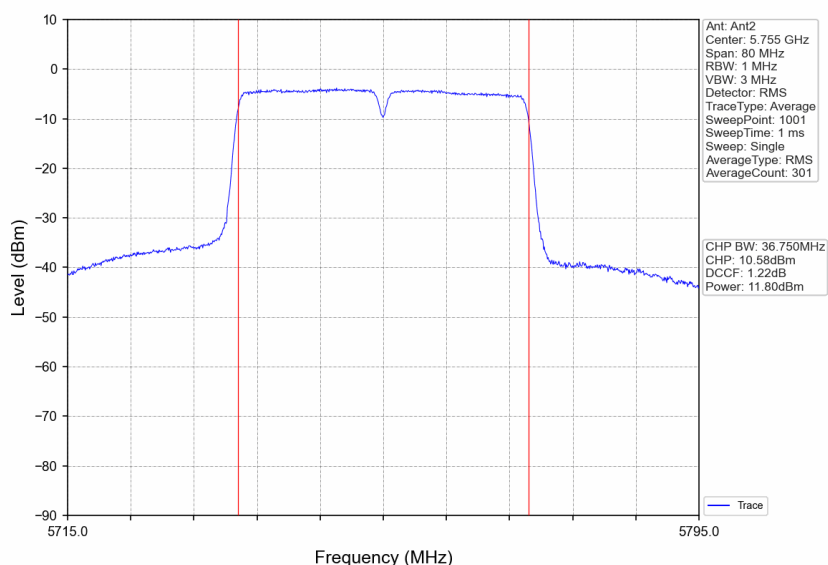
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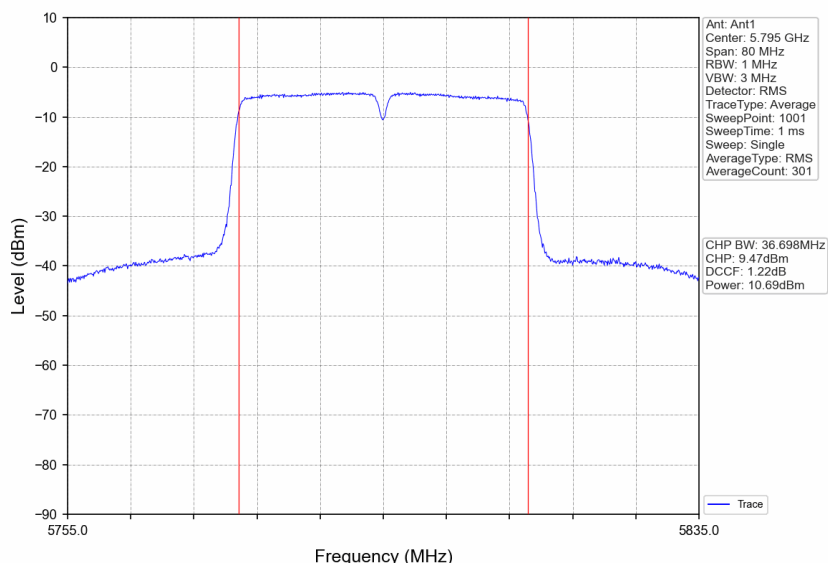
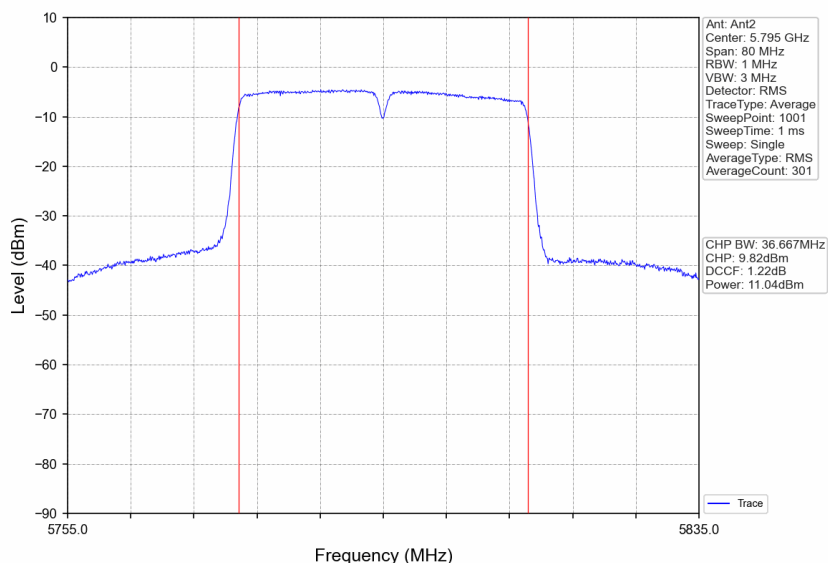


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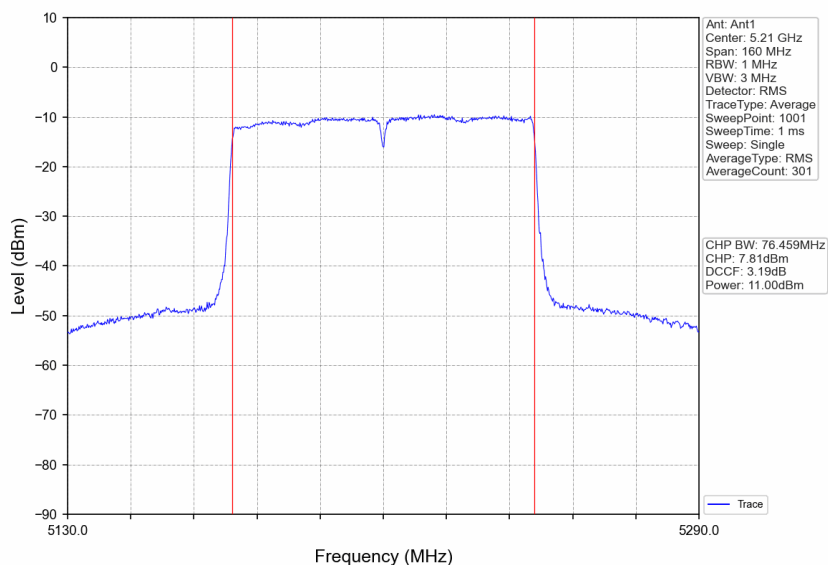
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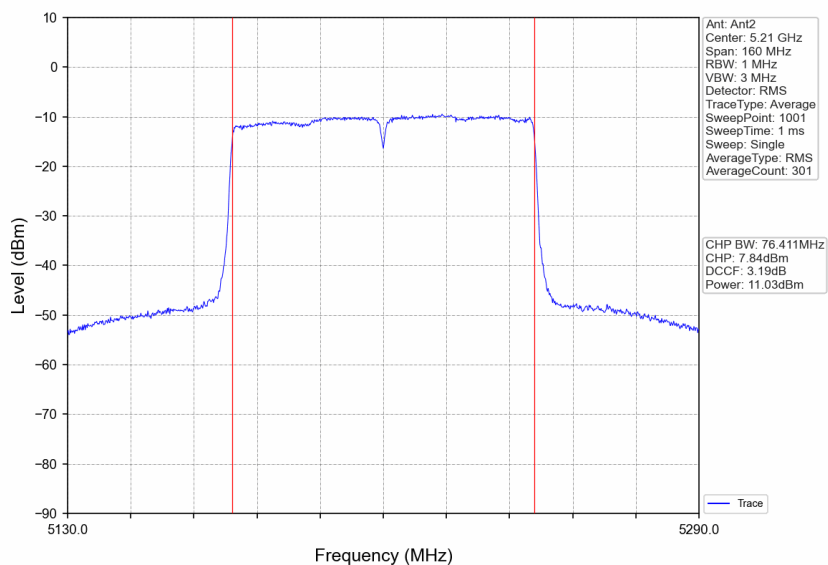
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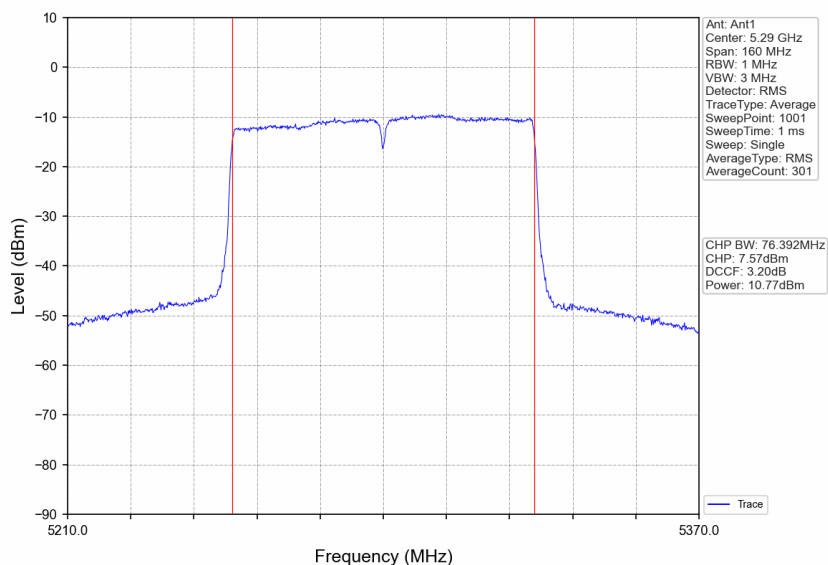
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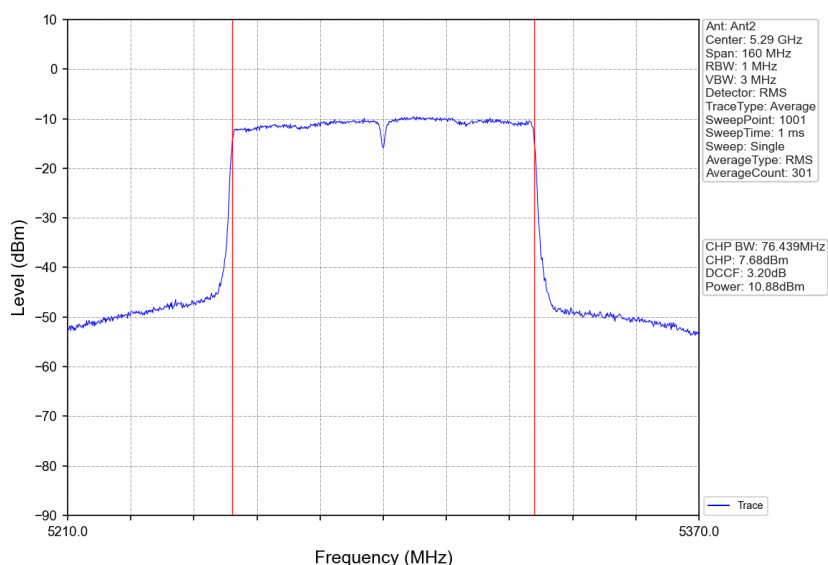
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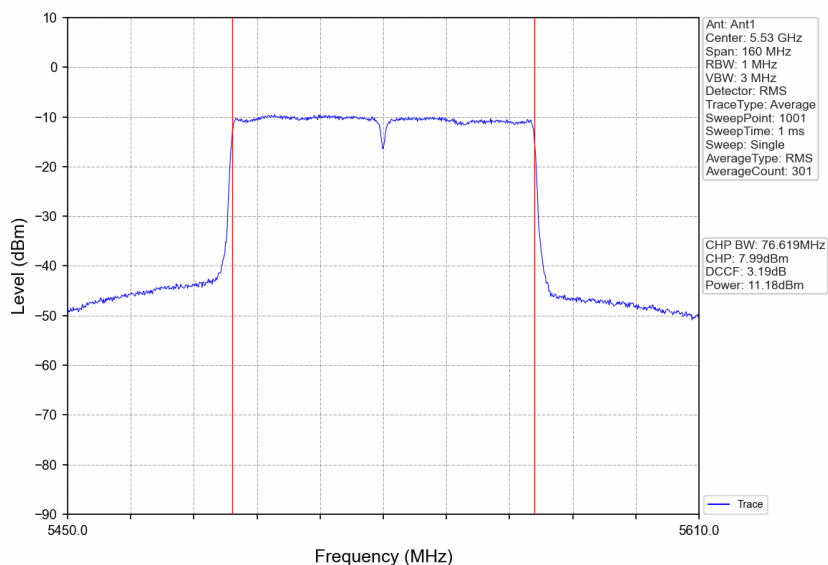
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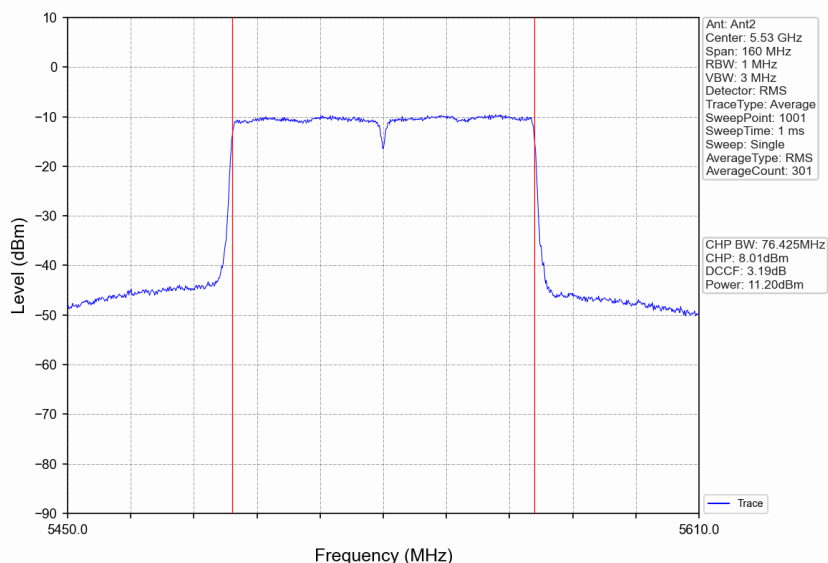
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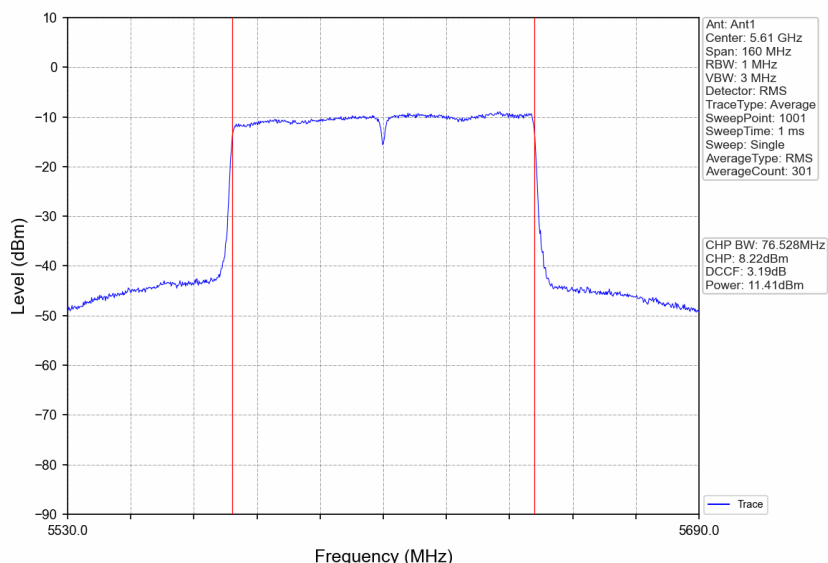
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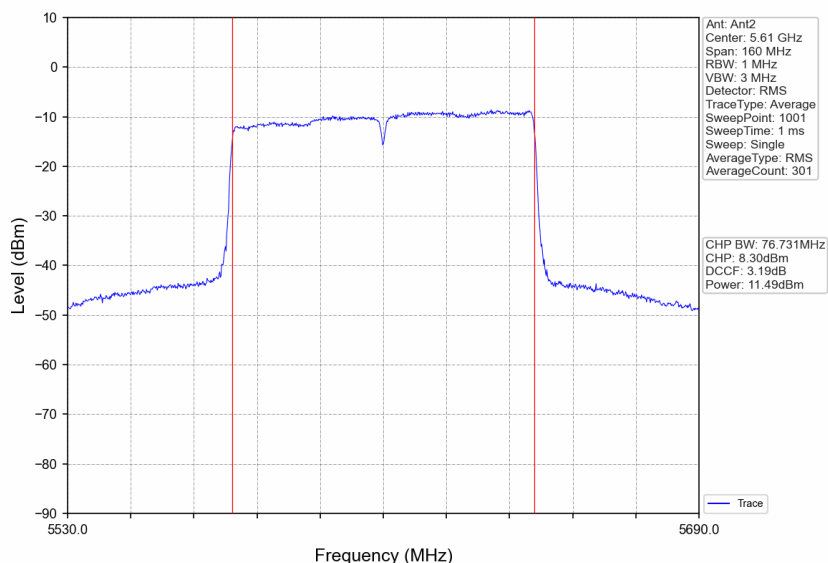
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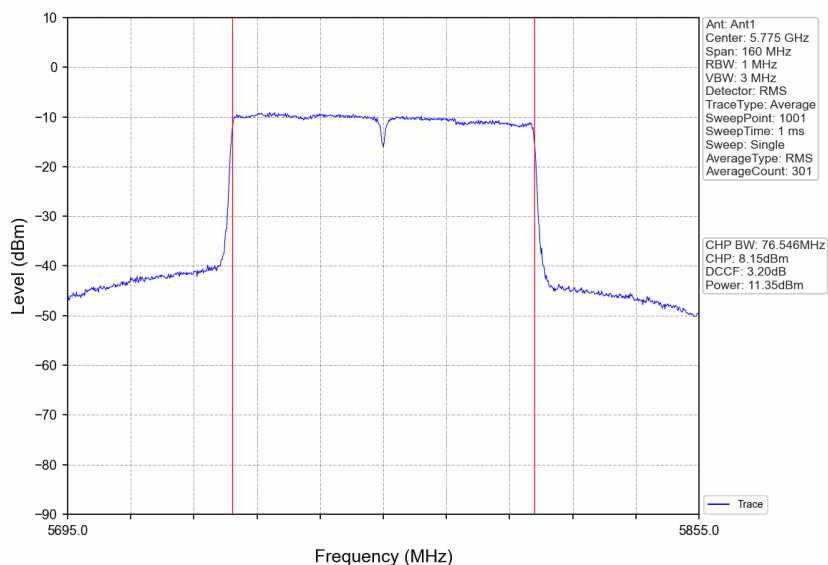
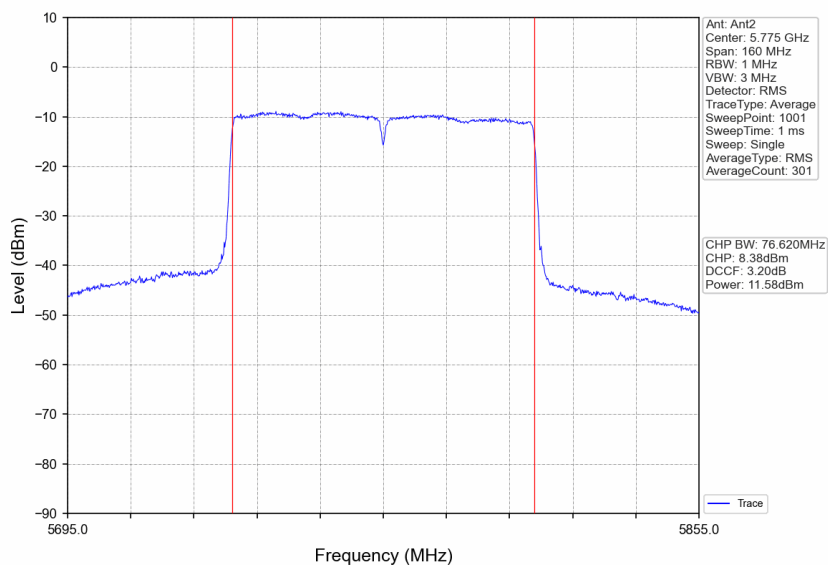
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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result For FCC

| Mode | TX Type | Frequency (MHz) | Maximum PSD (dBm/MHz) | | | | Verdict |
|------------------|---------|-----------------|-----------------------|-------|-------|-------|---------|
| | | | Ant1 | Ant2 | MIMO | Limit | |
| 802.11a | SISO | 5180 | 3.24 | 3.07 | / | <=11 | Pass |
| | | 5200 | 3.11 | 3.39 | / | <=11 | Pass |
| | | 5240 | 3.56 | 3.65 | / | <=11 | Pass |
| | | 5260 | 3.33 | 3.33 | / | <=11 | Pass |
| | | 5300 | 2.90 | 3.43 | / | <=11 | Pass |
| | | 5320 | 2.62 | 3.50 | / | <=11 | Pass |
| | | 5500 | 3.68 | 4.06 | / | <=11 | Pass |
| | | 5580 | 3.17 | 3.82 | / | <=11 | Pass |
| 802.11n (HT20) | MIMO | 5700 | 2.93 | 4.58 | / | <=11 | Pass |
| | | 5180 | 0.86 | 0.87 | 3.68 | <=11 | Pass |
| | | 5200 | 0.46 | 0.58 | 3.47 | <=11 | Pass |
| | | 5240 | 0.29 | 0.44 | 3.29 | <=11 | Pass |
| | | 5260 | 0.49 | 0.52 | 3.49 | <=11 | Pass |
| | | 5300 | -0.11 | 1.27 | 3.55 | <=11 | Pass |
| | | 5320 | -0.36 | 0.59 | 3.07 | <=11 | Pass |
| | | 5500 | 1.06 | 0.82 | 3.93 | <=11 | Pass |
| 802.11n (HT40) | MIMO | 5580 | 0.51 | 0.44 | 3.37 | <=11 | Pass |
| | | 5700 | -0.99 | 0.07 | 2.53 | <=11 | Pass |
| | | 5190 | -3.77 | -3.00 | -0.53 | <=11 | Pass |
| | | 5230 | -3.43 | -3.25 | -0.39 | <=11 | Pass |
| | | 5270 | -2.91 | -3.05 | -0.17 | <=11 | Pass |
| | | 5310 | -3.73 | -3.65 | -0.82 | <=11 | Pass |
| | | 5510 | -2.51 | -2.69 | 0.17 | <=11 | Pass |
| | | 5550 | -2.84 | -2.55 | 0.03 | <=11 | Pass |
| 802.11ac (VHT20) | MIMO | 5670 | -3.56 | -3.37 | -0.63 | <=11 | Pass |
| | | 5180 | 0.77 | 0.70 | 3.70 | <=11 | Pass |
| | | 5200 | 0.56 | 0.63 | 3.55 | <=11 | Pass |
| | | 5240 | 0.13 | 0.16 | 3.13 | <=11 | Pass |
| | | 5260 | 0.53 | 0.81 | 3.60 | <=11 | Pass |
| | | 5300 | 0.46 | 0.32 | 3.30 | <=11 | Pass |
| | | 5320 | -0.08 | -0.27 | 2.75 | <=11 | Pass |
| | | 5500 | 0.99 | 1.06 | 3.99 | <=11 | Pass |
| 802.11ac (VHT40) | MIMO | 5580 | 0.16 | 0.08 | 3.03 | <=11 | Pass |
| | | 5700 | 0.33 | 0.27 | 3.19 | <=11 | Pass |
| | | 5190 | -3.58 | -3.61 | -0.68 | <=11 | Pass |
| | | 5230 | -3.98 | -4.02 | -1.12 | <=11 | Pass |
| | | 5270 | -3.76 | -3.82 | -0.84 | <=11 | Pass |
| | | 5310 | -4.39 | -4.63 | -1.59 | <=11 | Pass |
| | | 5510 | -3.05 | -2.89 | -0.05 | <=11 | Pass |
| | | 5550 | -3.70 | -3.49 | -0.63 | <=11 | Pass |
| 802.11ac (VHT80) | MIMO | 5670 | -3.93 | -2.91 | -0.54 | <=11 | Pass |
| | | 5210 | -6.24 | -6.45 | -3.40 | <=11 | Pass |
| | | 5290 | -6.24 | -7.00 | -3.79 | <=11 | Pass |
| | | 5530 | -6.09 | -6.23 | -3.24 | <=11 | Pass |
| | | 5610 | -5.56 | -5.39 | -2.77 | <=11 | Pass |

Note1: Antenna Gain: Ant1: 3.48dBi; Ant2: 2.39dBi;

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Note2: Directional Gain: 5.96dBi

4.1.2 Test Result For IC

| Mode | TX Type | Frequency (MHz) | Maximum PSD (dBm/MHz) | | | | Verdict |
|------------------|---------|-----------------|-----------------------|-------|-------|-------|---------|
| | | | Ant1 | Ant2 | MIMO | Limit | |
| 802.11a | SISO | 5260 | 3.33 | 3.33 | / | <=11 | Pass |
| | | 5300 | 2.90 | 3.43 | / | <=11 | Pass |
| | | 5320 | 2.62 | 3.50 | / | <=11 | Pass |
| | | 5500 | 3.68 | 4.06 | / | <=11 | Pass |
| | | 5580 | 3.17 | 3.82 | / | <=11 | Pass |
| | | 5700 | 2.93 | 4.58 | / | <=11 | Pass |
| 802.11n (HT20) | MIMO | 5260 | 0.49 | 0.52 | 3.49 | <=11 | Pass |
| | | 5300 | -0.11 | 1.27 | 3.55 | <=11 | Pass |
| | | 5320 | -0.36 | 0.59 | 3.07 | <=11 | Pass |
| | | 5500 | 1.06 | 0.82 | 3.93 | <=11 | Pass |
| | | 5580 | 0.51 | 0.44 | 3.37 | <=11 | Pass |
| | | 5700 | -0.99 | 0.07 | 2.53 | <=11 | Pass |
| 802.11n (HT40) | MIMO | 5270 | -2.91 | -3.05 | -0.17 | <=11 | Pass |
| | | 5310 | -3.73 | -3.65 | -0.82 | <=11 | Pass |
| | | 5510 | -2.51 | -2.69 | 0.17 | <=11 | Pass |
| | | 5550 | -2.84 | -2.55 | 0.03 | <=11 | Pass |
| | | 5670 | -3.56 | -3.37 | -0.63 | <=11 | Pass |
| | | | | | | | |
| 802.11ac (VHT20) | MIMO | 5260 | 0.53 | 0.81 | 3.60 | <=11 | Pass |
| | | 5300 | 0.46 | 0.32 | 3.30 | <=11 | Pass |
| | | 5320 | -0.08 | -0.27 | 2.75 | <=11 | Pass |
| | | 5500 | 0.99 | 1.06 | 3.99 | <=11 | Pass |
| | | 5580 | 0.16 | 0.08 | 3.03 | <=11 | Pass |
| | | 5700 | 0.33 | 0.27 | 3.19 | <=11 | Pass |
| 802.11ac (VHT40) | MIMO | 5270 | -3.76 | -3.82 | -0.84 | <=11 | Pass |
| | | 5310 | -4.39 | -4.63 | -1.59 | <=11 | Pass |
| | | 5510 | -3.05 | -2.89 | -0.05 | <=11 | Pass |
| | | 5550 | -3.70 | -3.49 | -0.63 | <=11 | Pass |
| | | 5670 | -3.93 | -2.91 | -0.54 | <=11 | Pass |
| | | | | | | | |
| 802.11ac (VHT80) | MIMO | 5290 | -6.24 | -7.00 | -3.79 | <=11 | Pass |
| | | 5530 | -6.09 | -6.23 | -3.24 | <=11 | Pass |
| | | 5610 | -5.56 | -5.39 | -2.77 | <=11 | Pass |

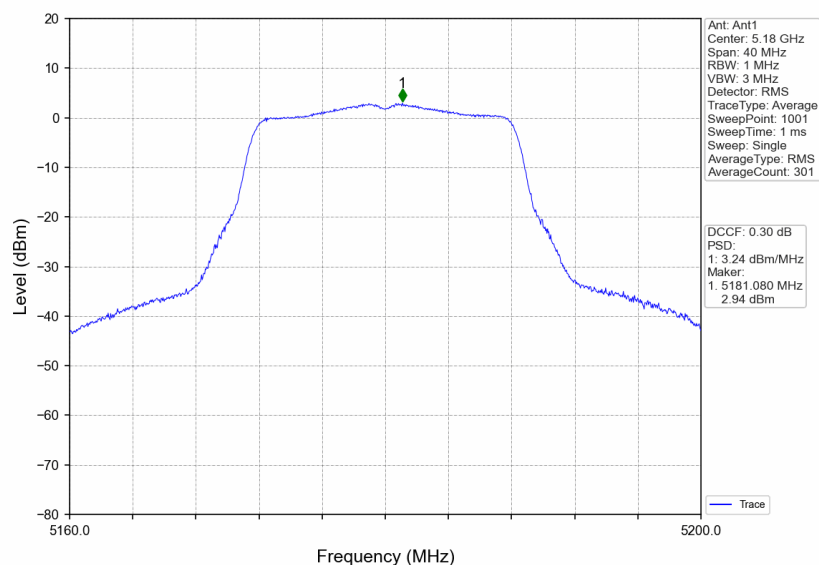
Note1: Antenna Gain: Ant1: 3.48dBi; Ant2: 2.39dBi;

Note2: Directional Gain: 5.96dBi

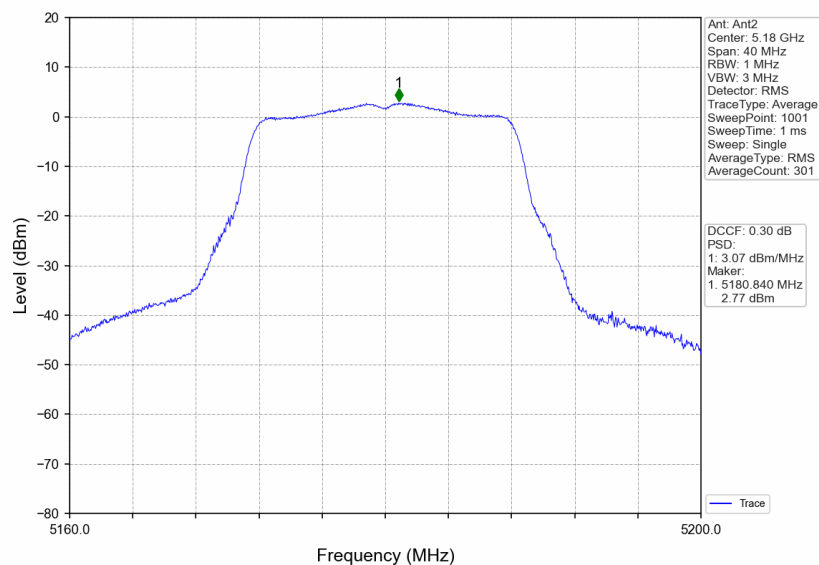
4.1.3 Test Graph

802.11a_LCH_5180MHz_Ant1_NTNV





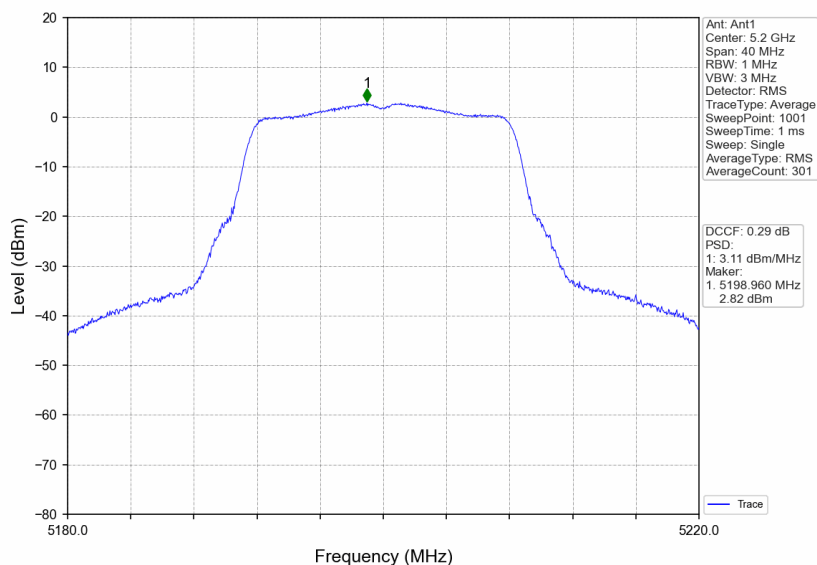
802.11a_LCH_5180MHz_Ant2_NTNV



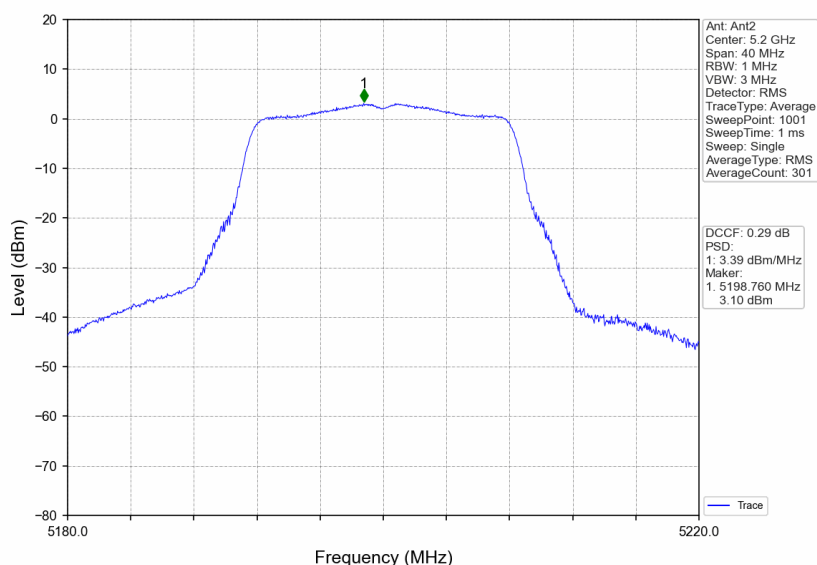
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802.11a_MCH_5200MHz_Ant1_NTNV



802.11a_MCH_5200MHz_Ant2_NTNV



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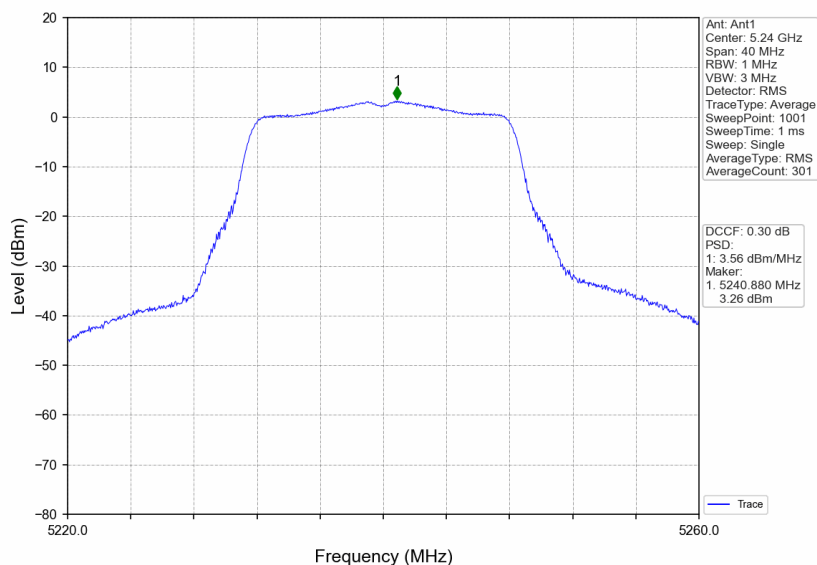
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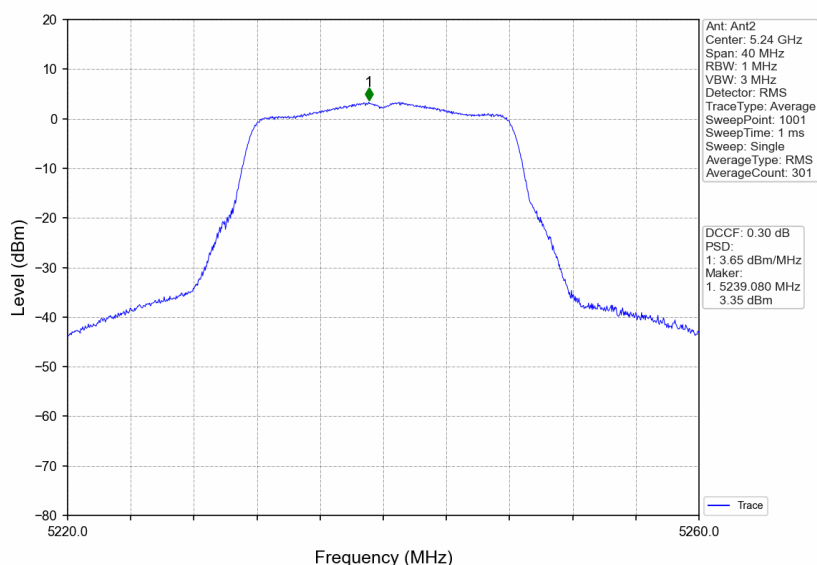
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802.11a_HCH_5240MHz_Ant2_NTNV



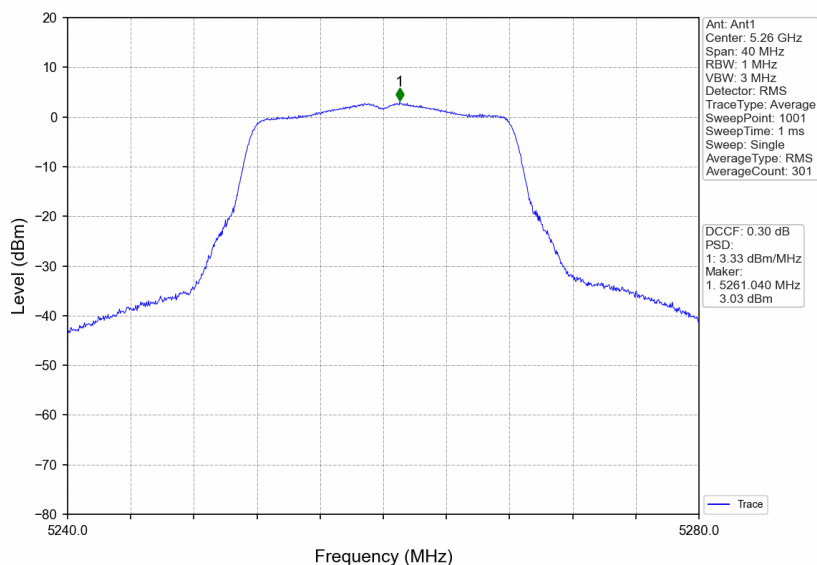
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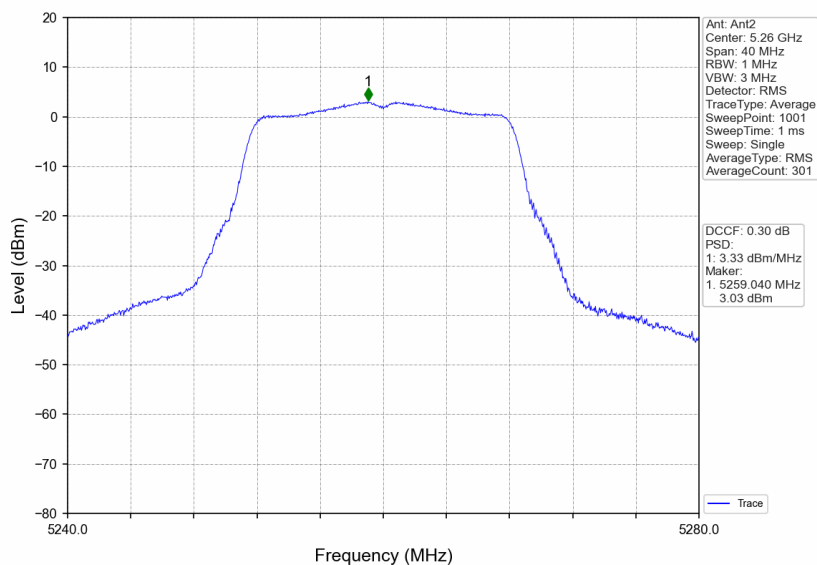
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802.11a_LCH_5260MHz_Ant1_NTNV



802.11a_LCH_5260MHz_Ant2_NTNV



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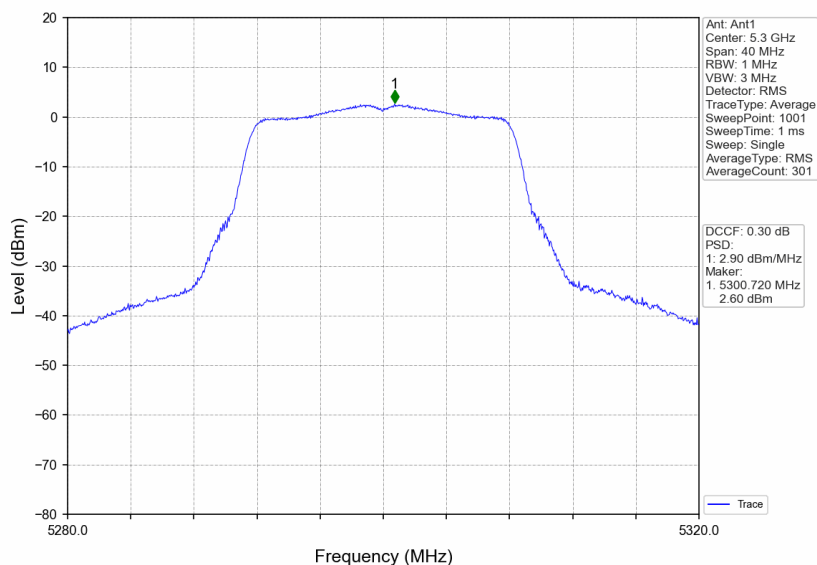
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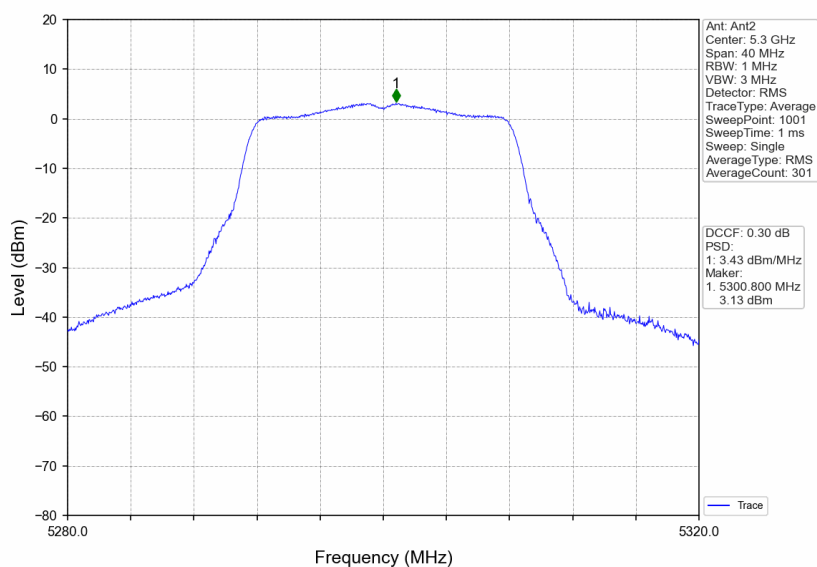
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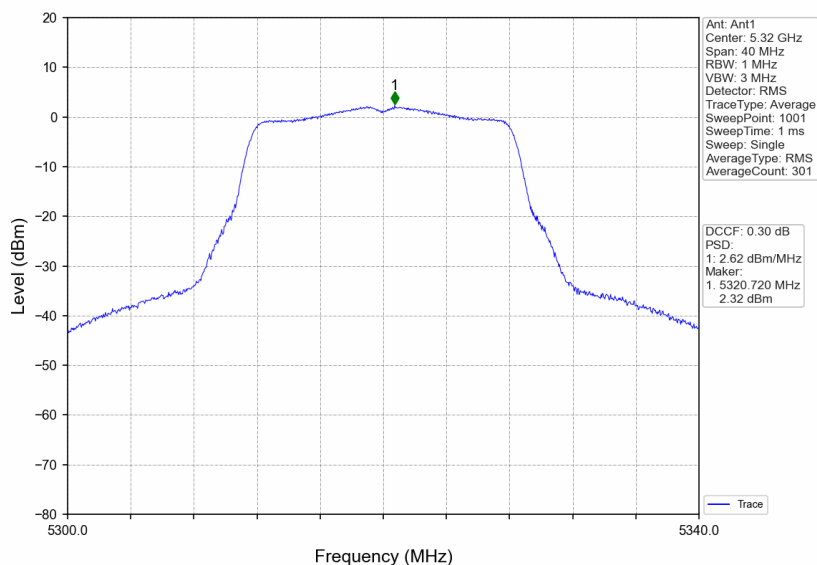
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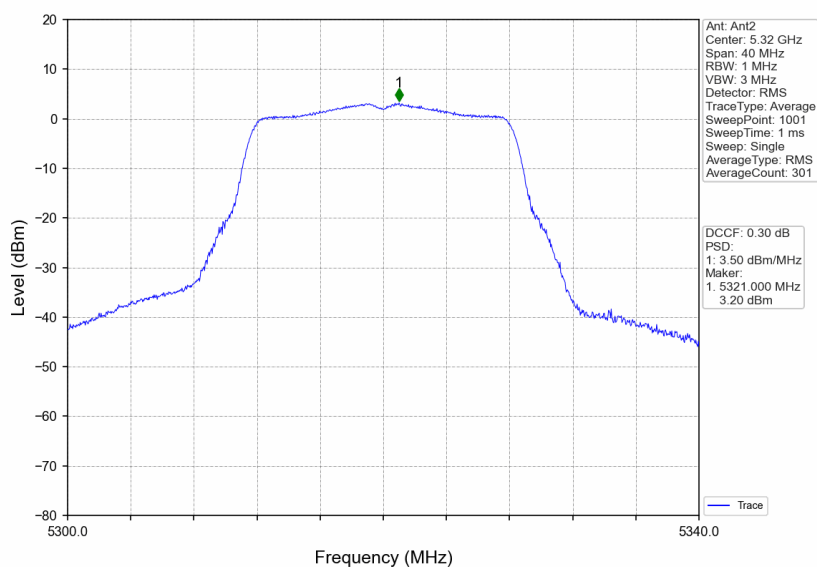
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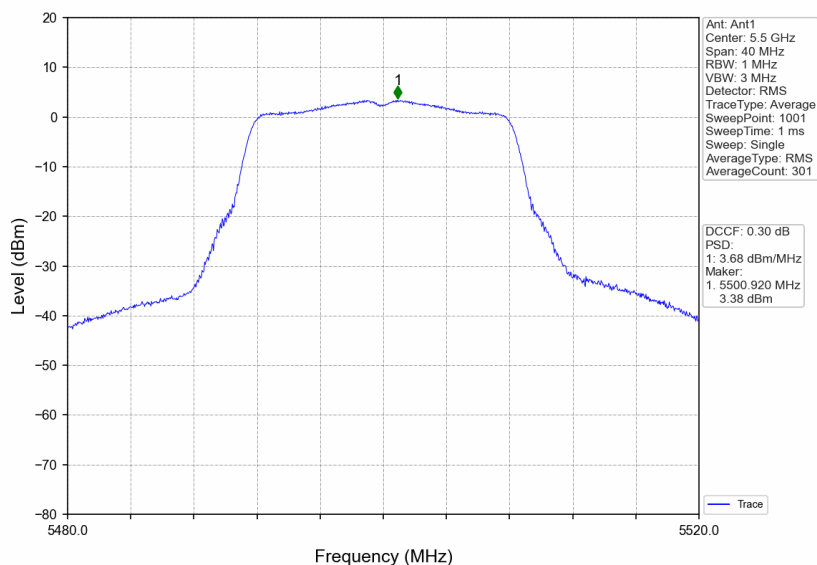
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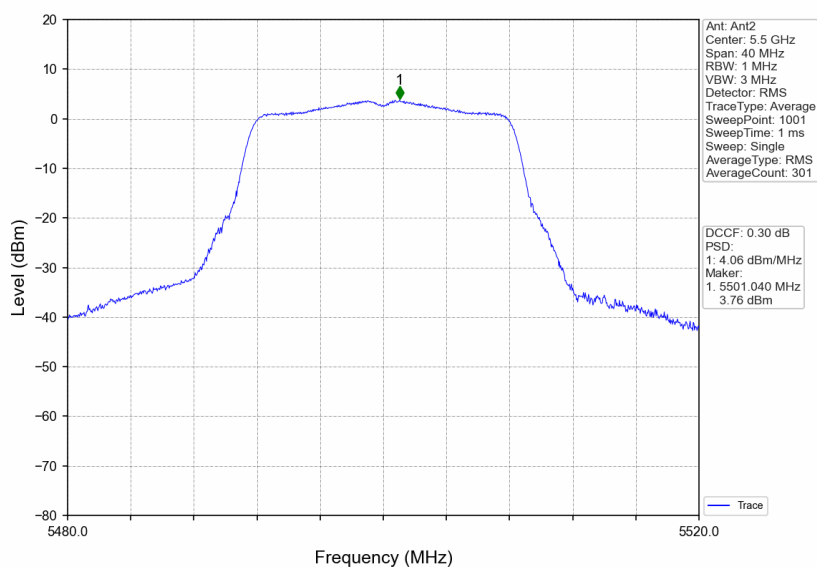
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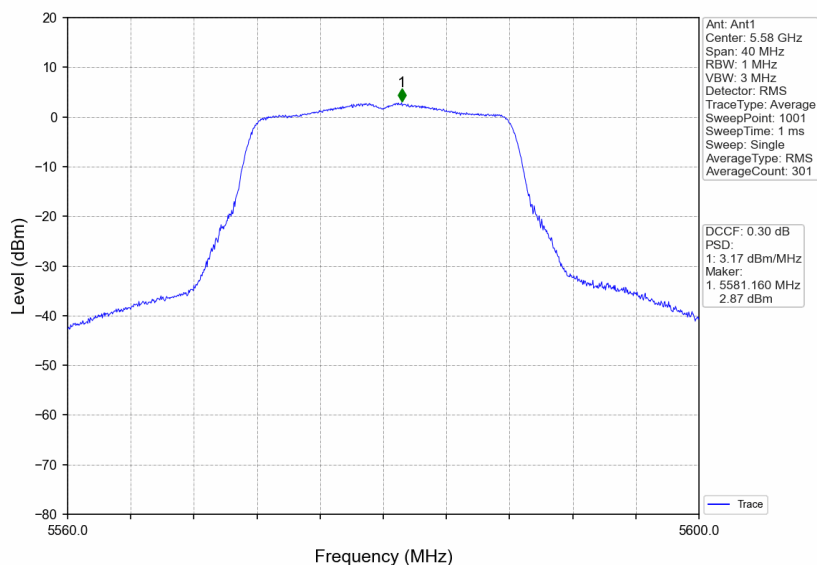
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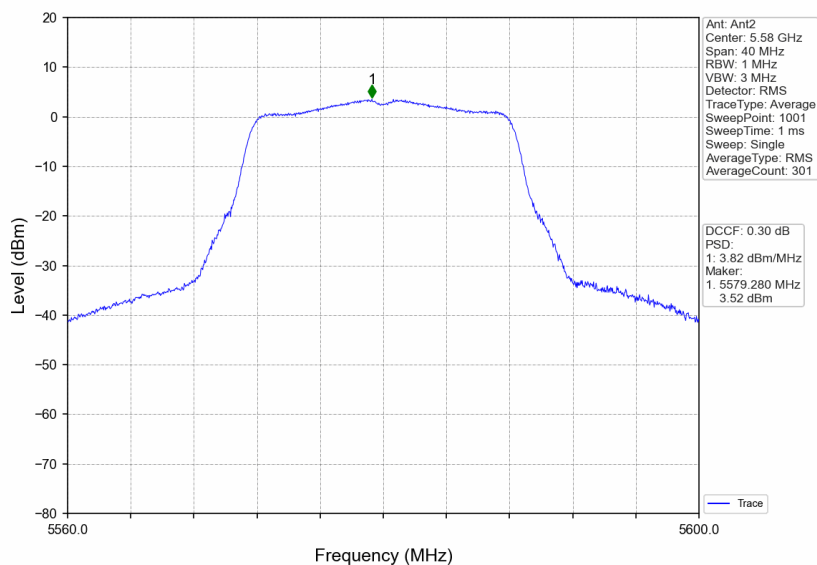
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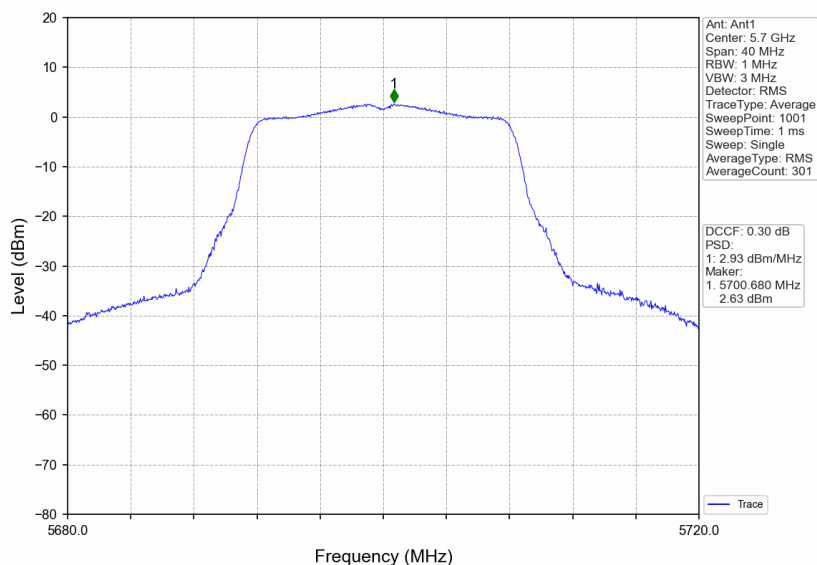
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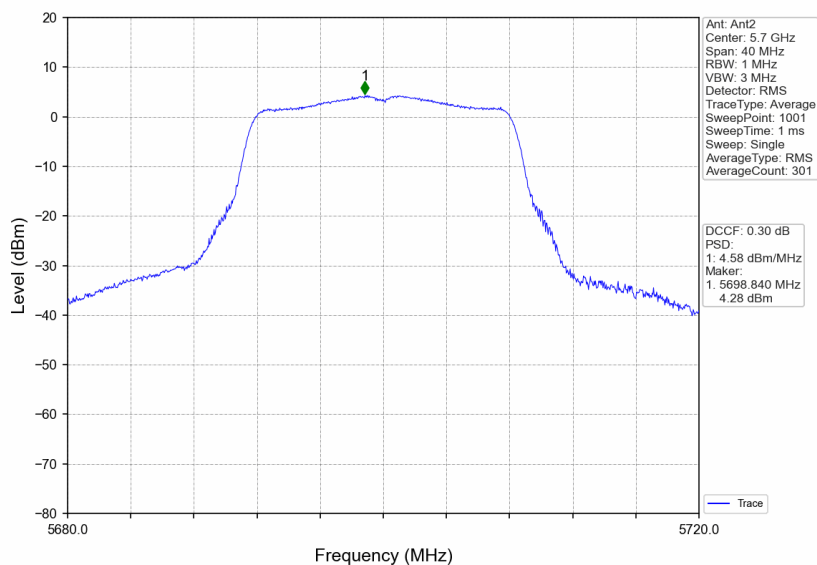
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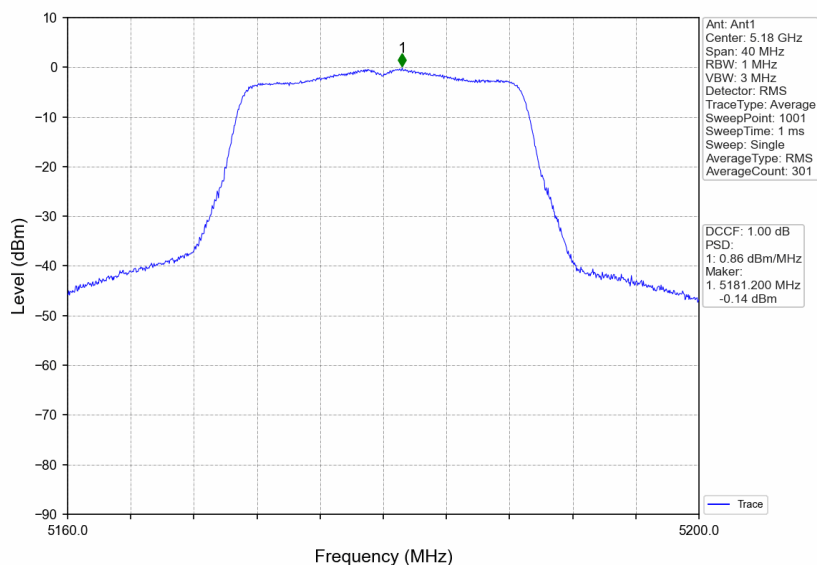
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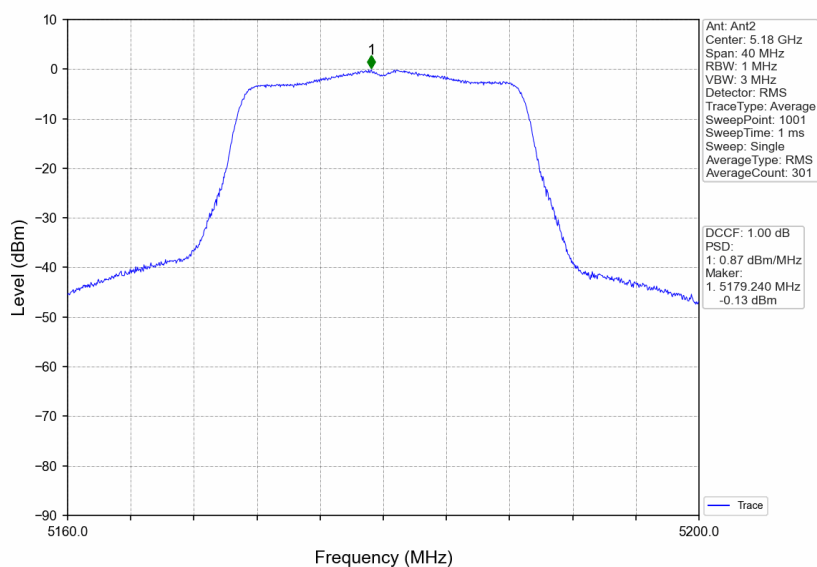
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802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



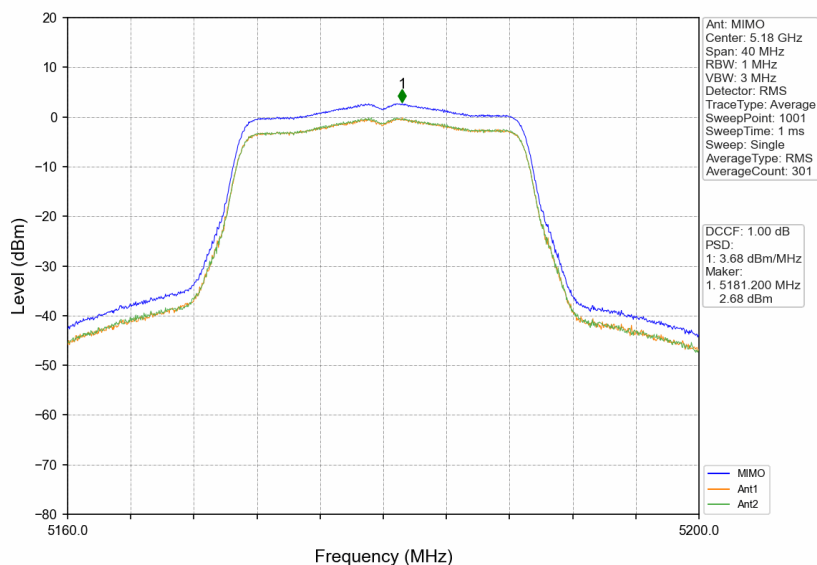
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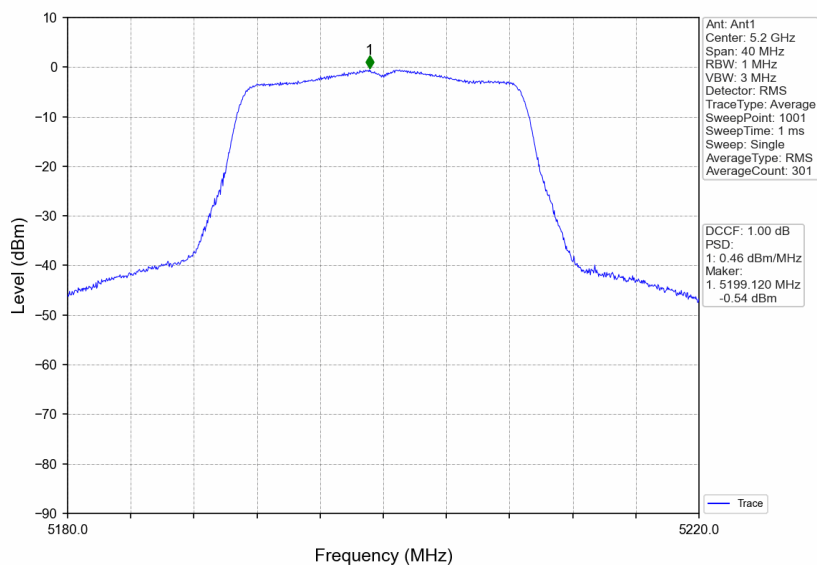
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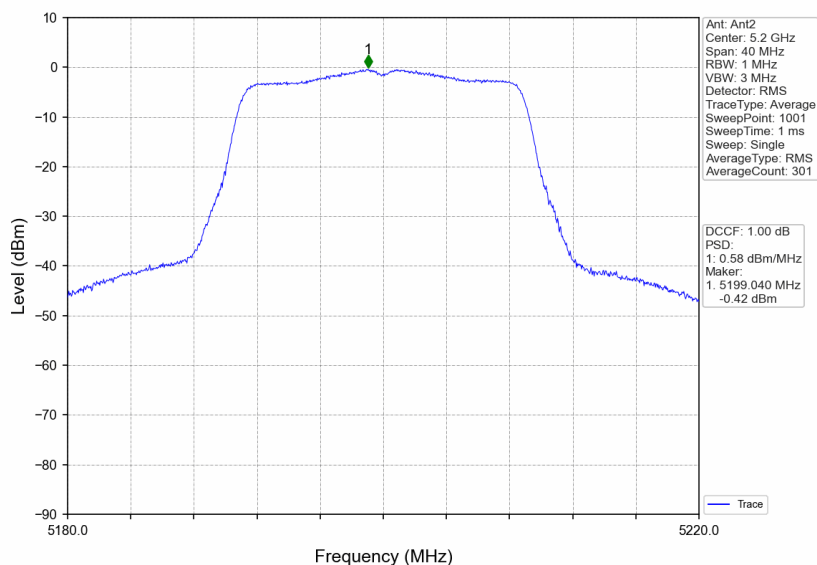
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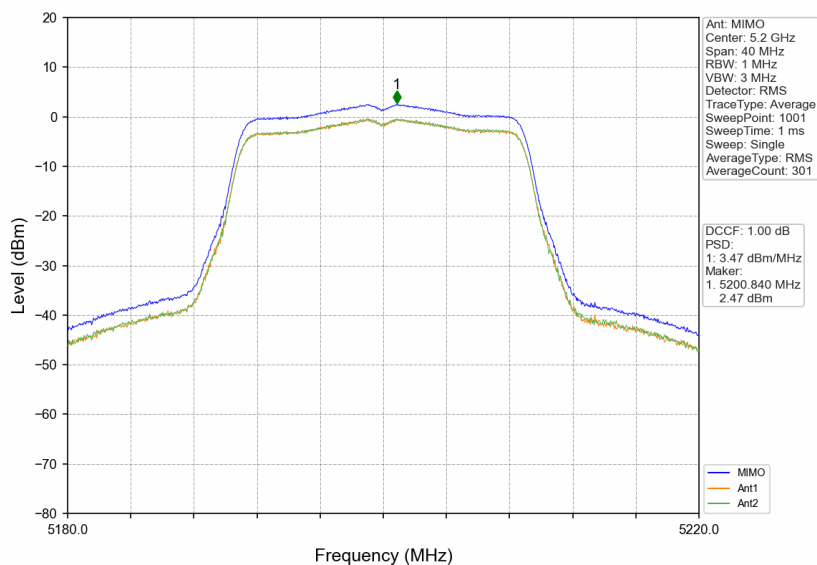
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802.11n(HT20)_MCH_5200MHz_Ant2_NTNV



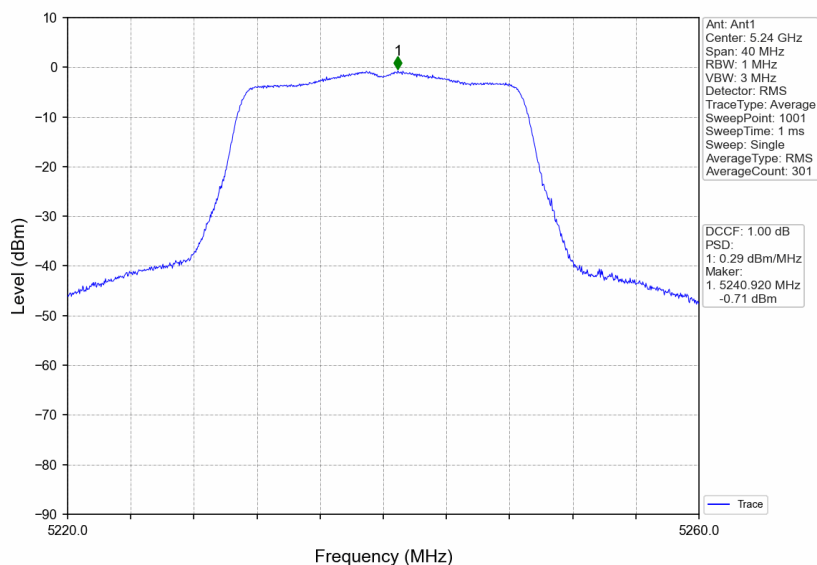
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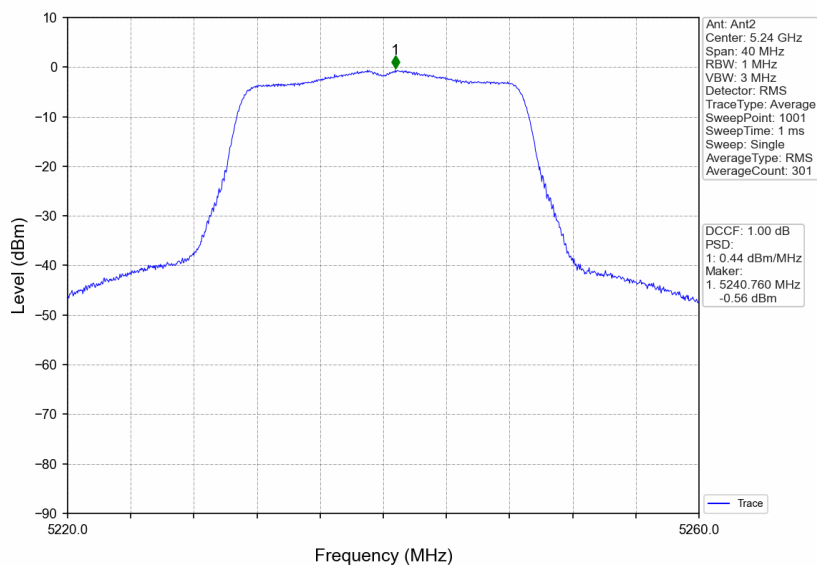
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802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant2_NTNV



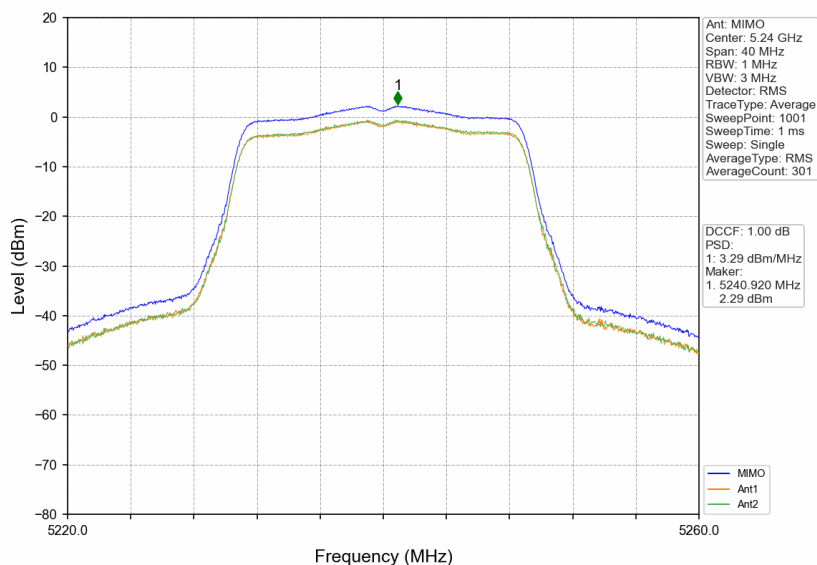
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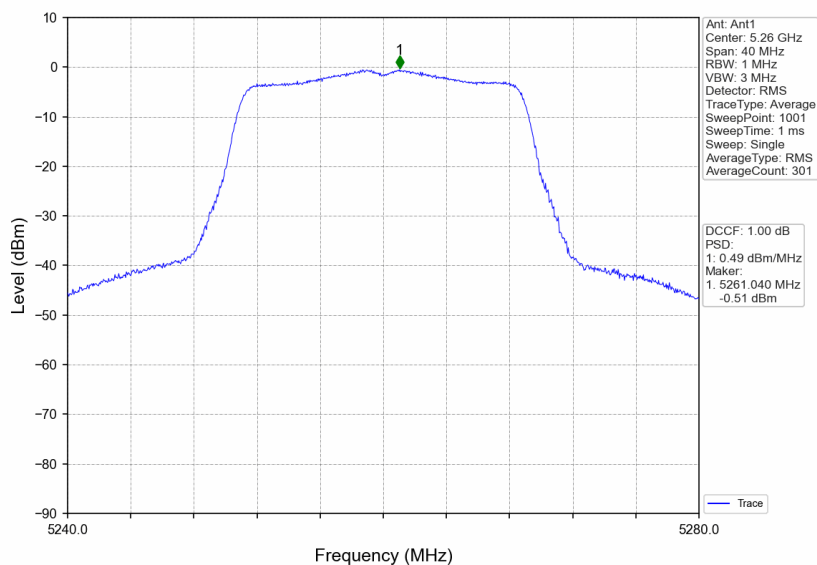
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802.11n(HT20)_HCH_5240MHz_MIMO_NTNV



802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



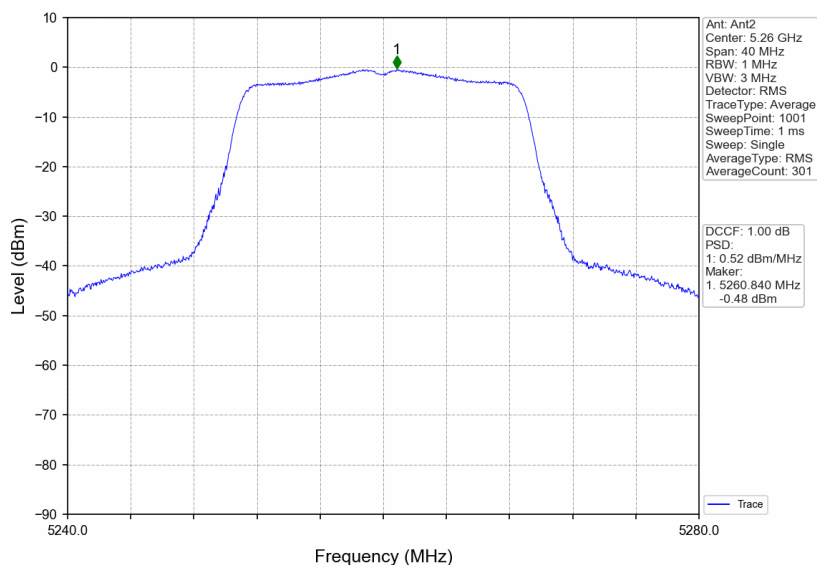
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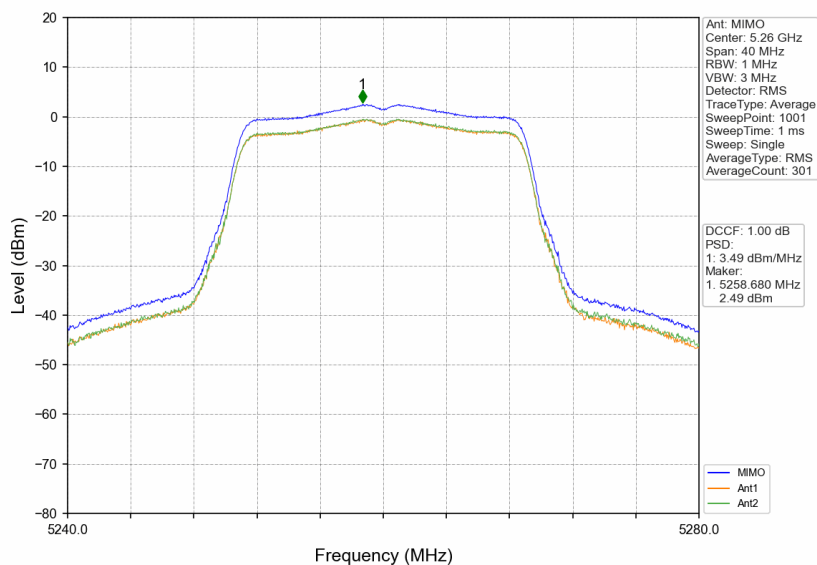
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802.11n(HT20)_LCH_5260MHz_Ant2_NTNV



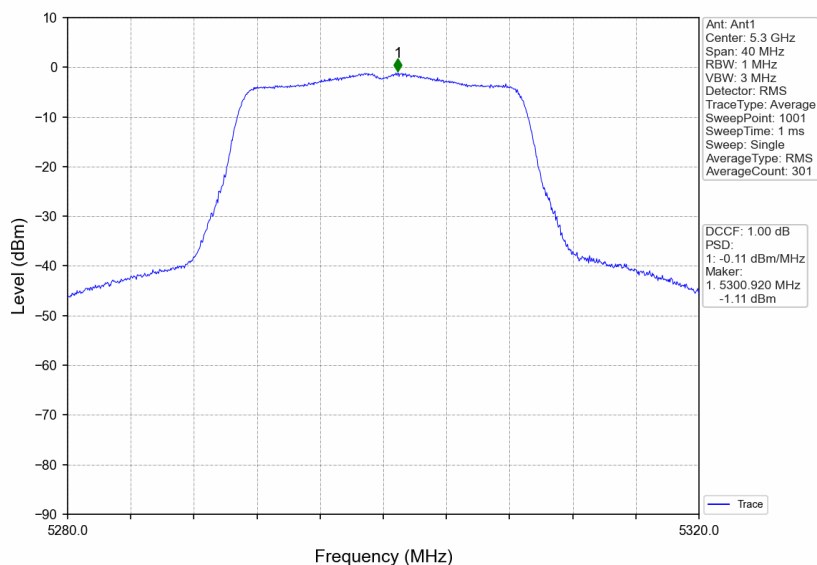
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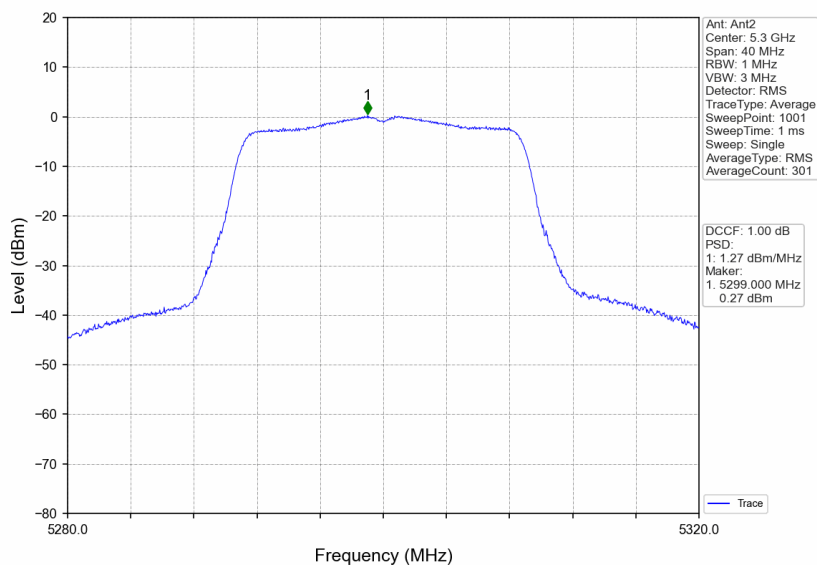
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802.11n(HT20)_MCH_5300MHz_Ant2_NTNV



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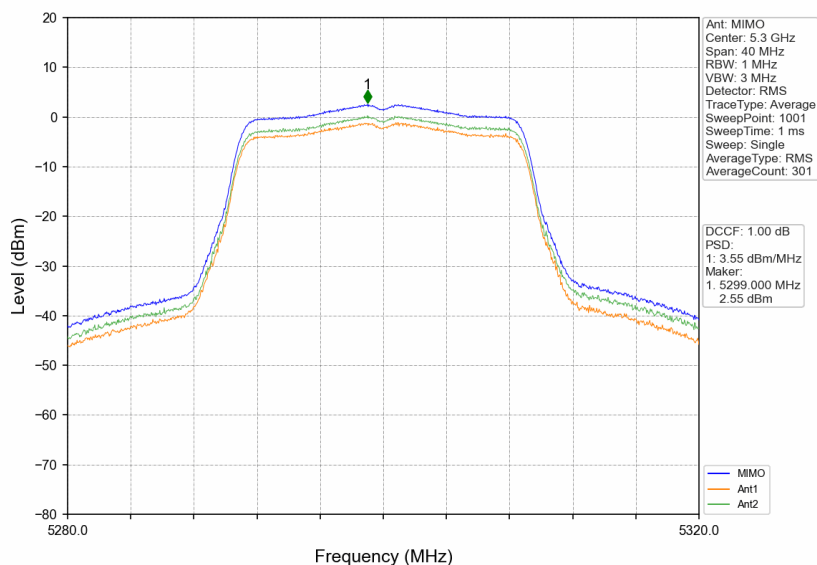
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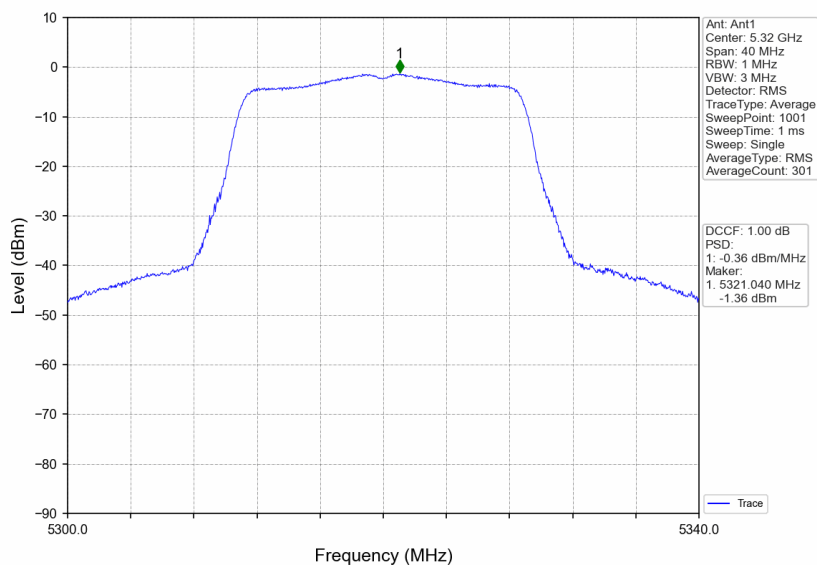
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802.11n(HT20)_MCH_5300MHz_MIMO_NTNV



802.11n(HT20)_HCH_5320MHz_Ant1_NTNV



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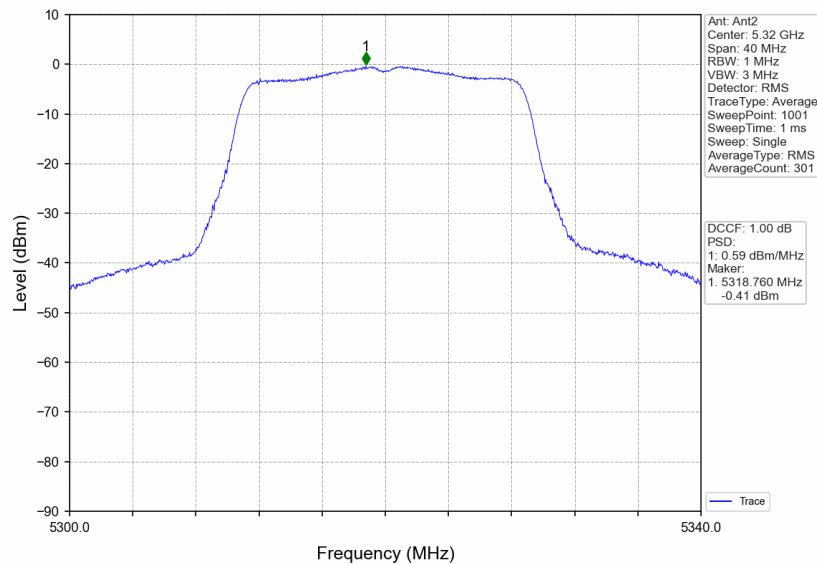
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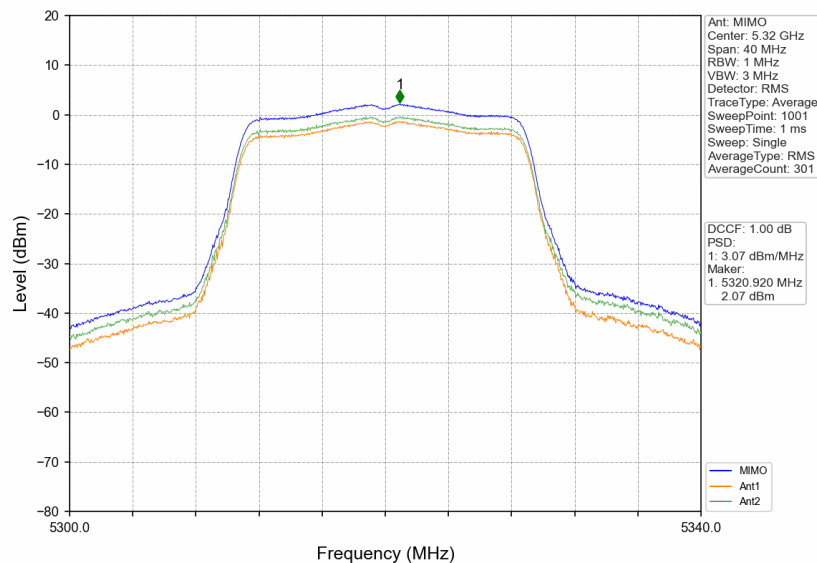
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802.11n(HT20)_HCH_5320MHz_Ant2_NTNV



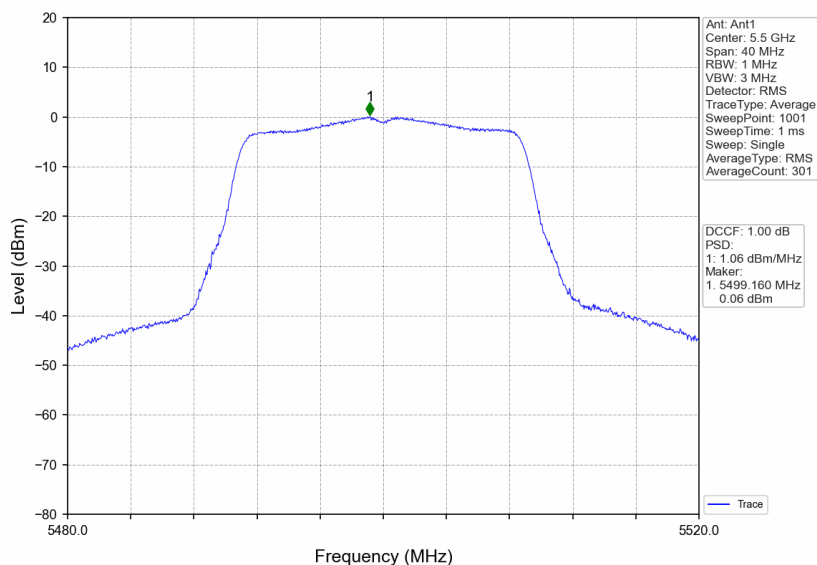
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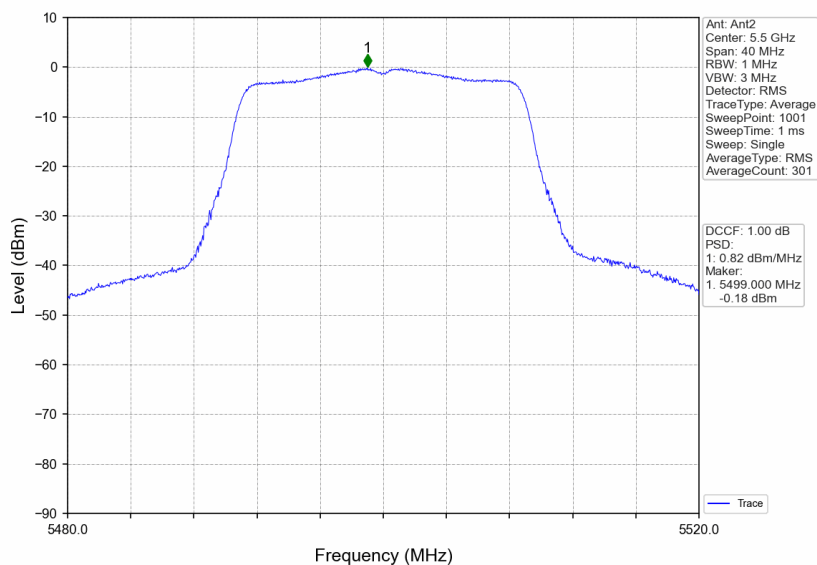
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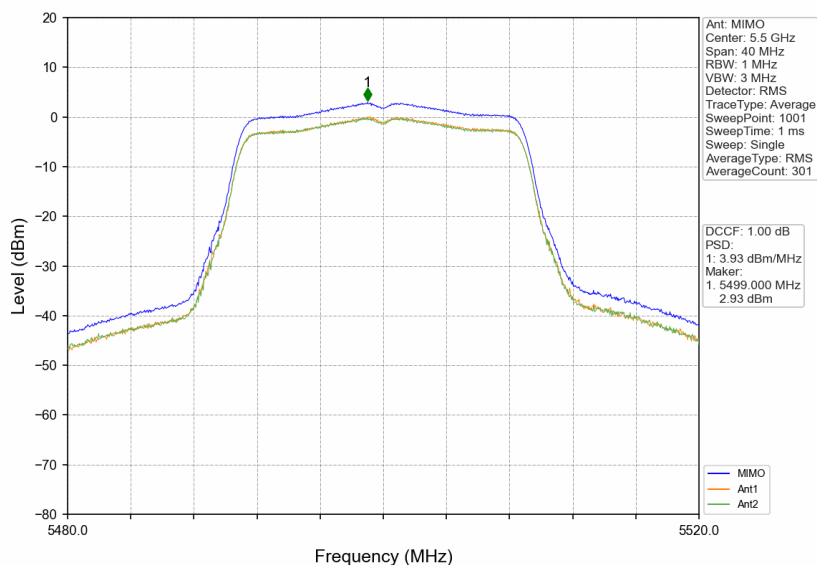
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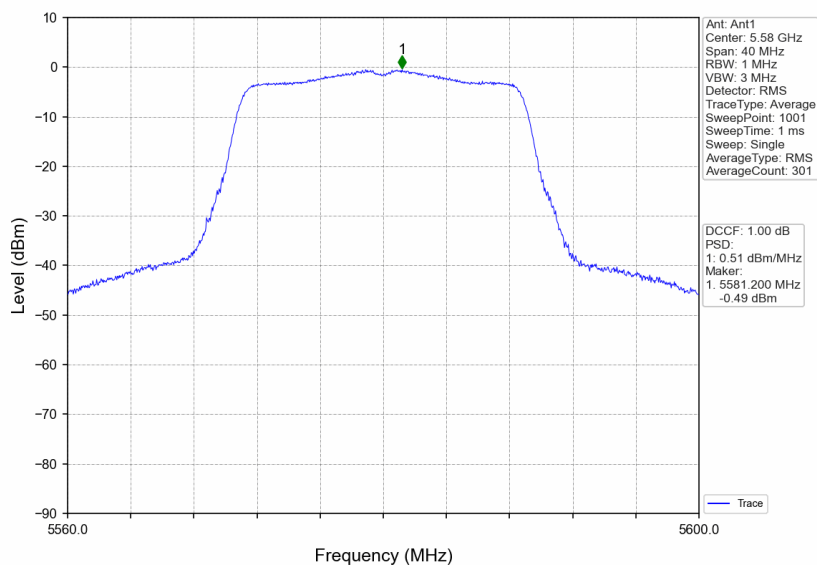
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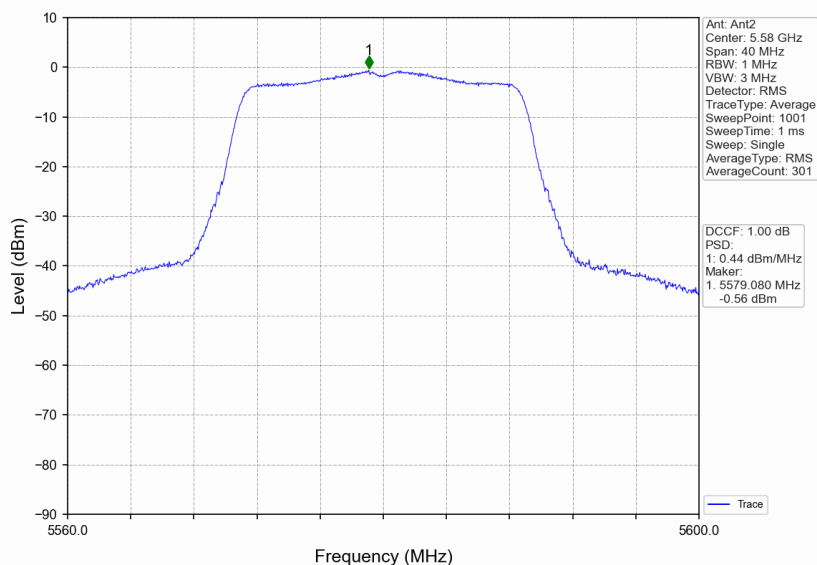
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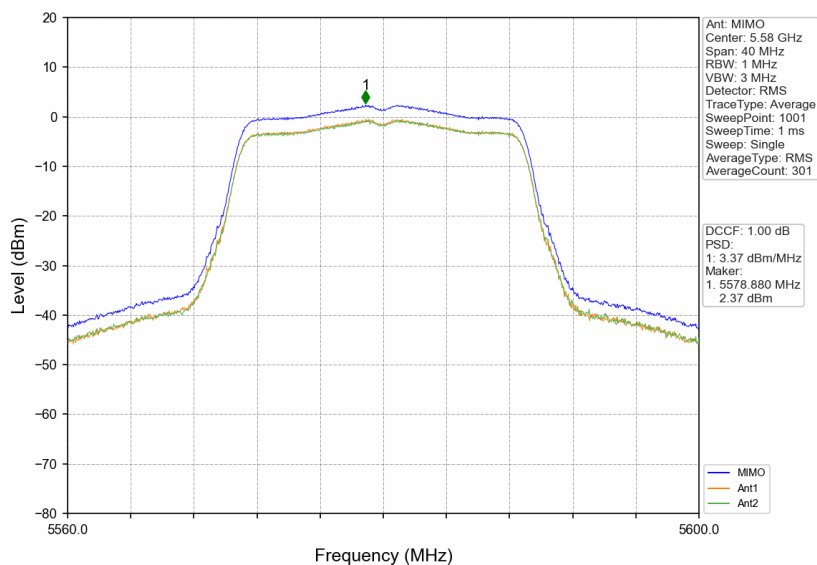
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802.11n(HT20)_MCH_5580MHz_Ant2_NTNV



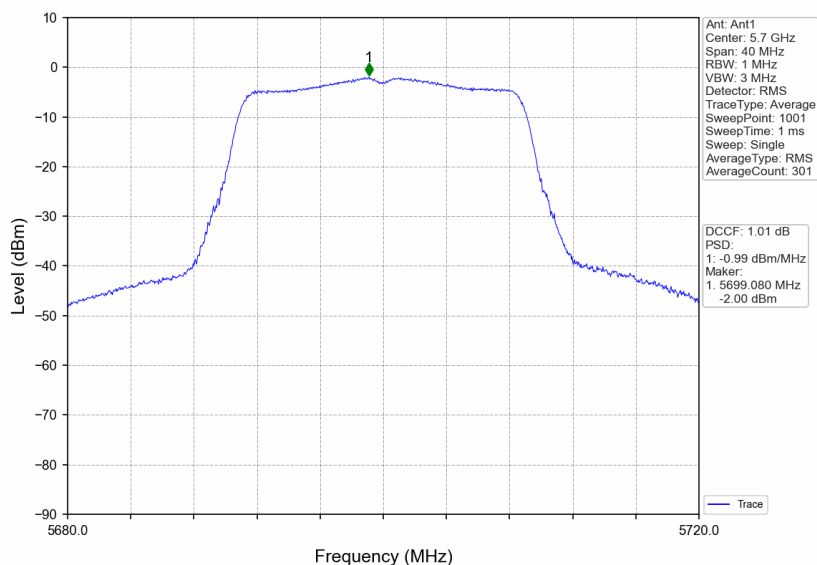
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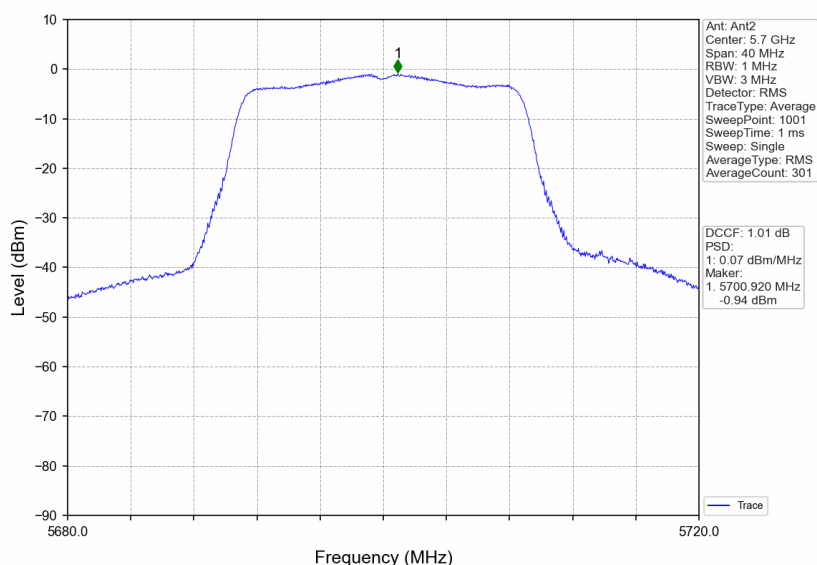
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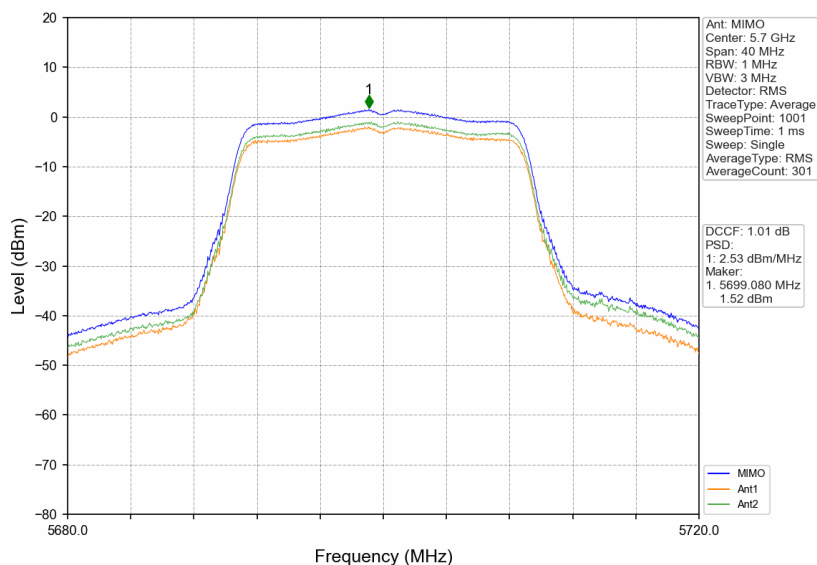
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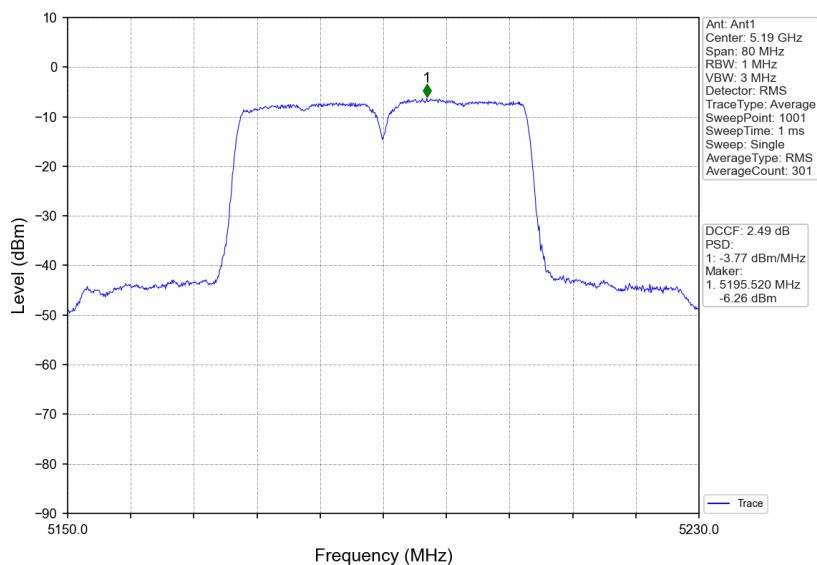
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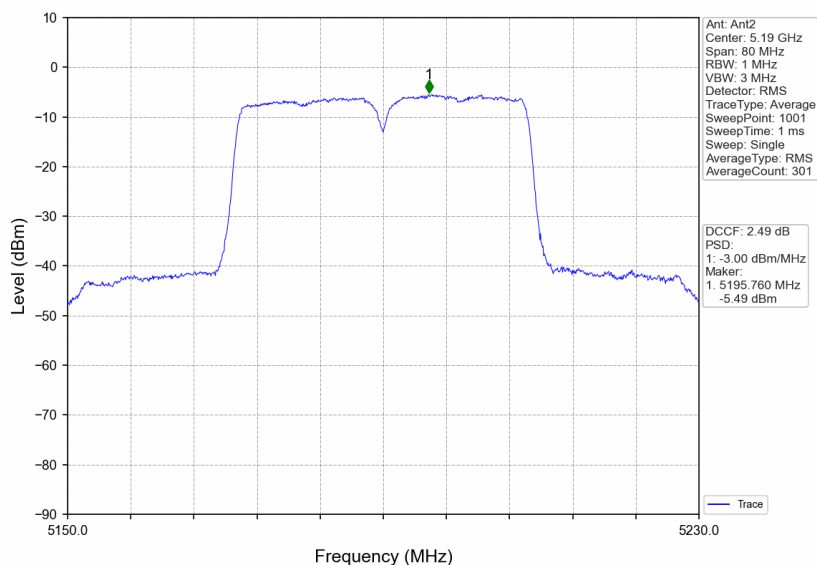
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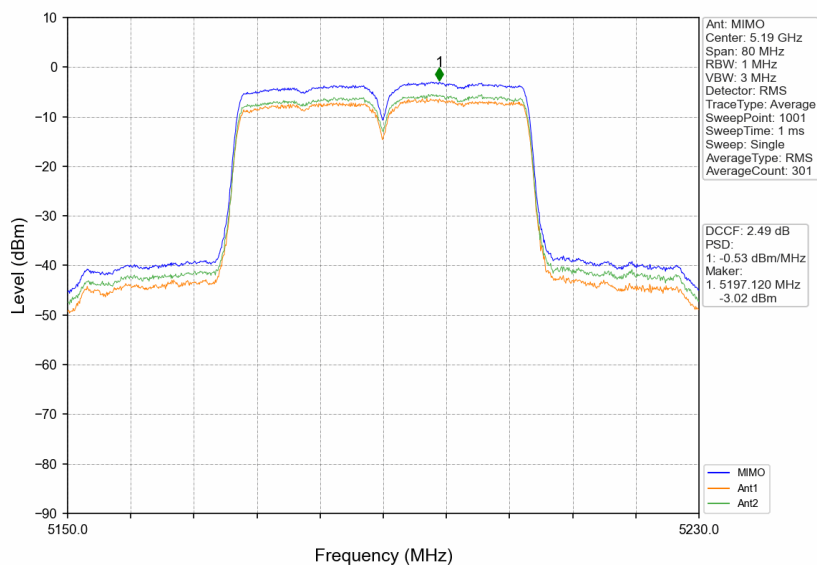
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802.11n(HT40)_LCH_5190MHz_Ant2_NTNV



802.11n(HT40)_LCH_5190MHz_MIMO_NTNV



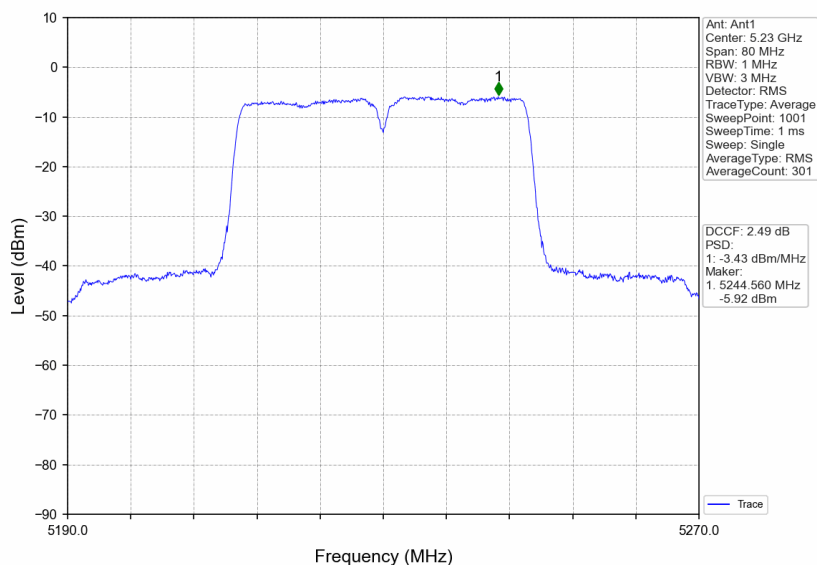
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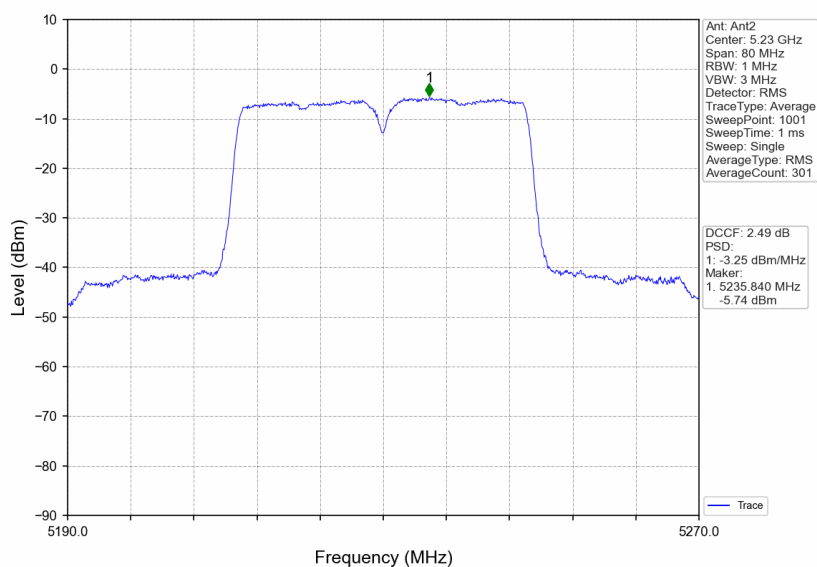
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802.11n(HT40)_HCH_5230MHz_Ant1_NTNV



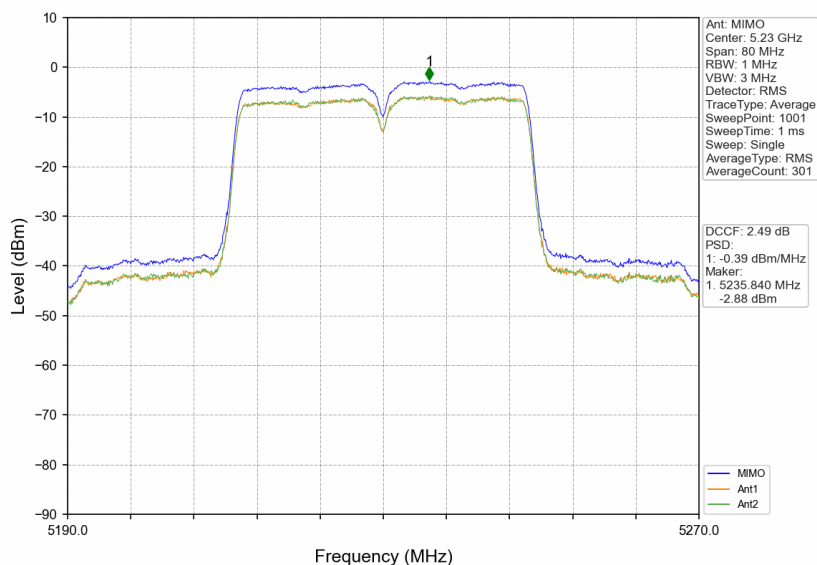
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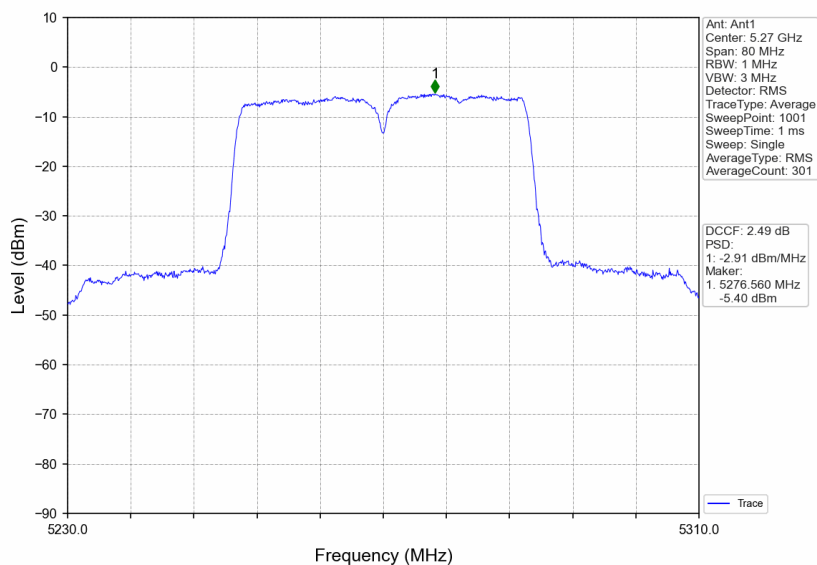
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802.11n(HT40)_HCH_5230MHz_MIMO_NTNV



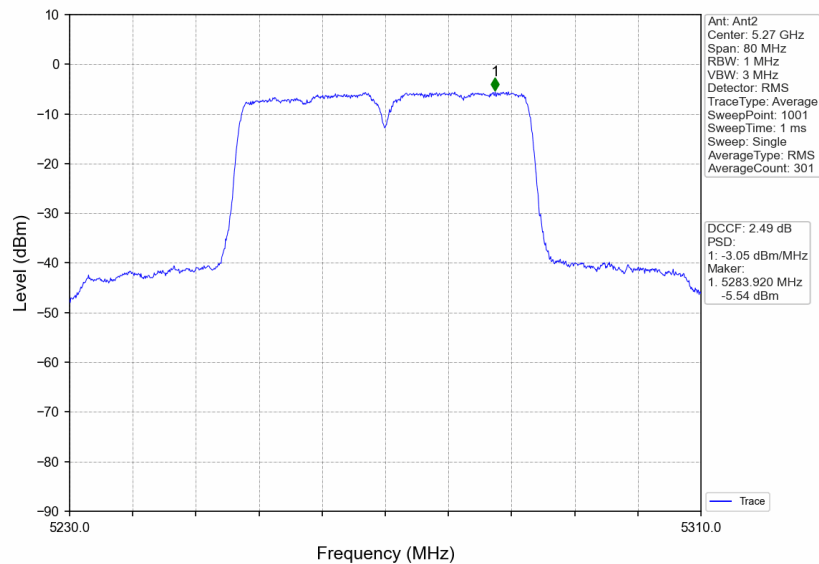
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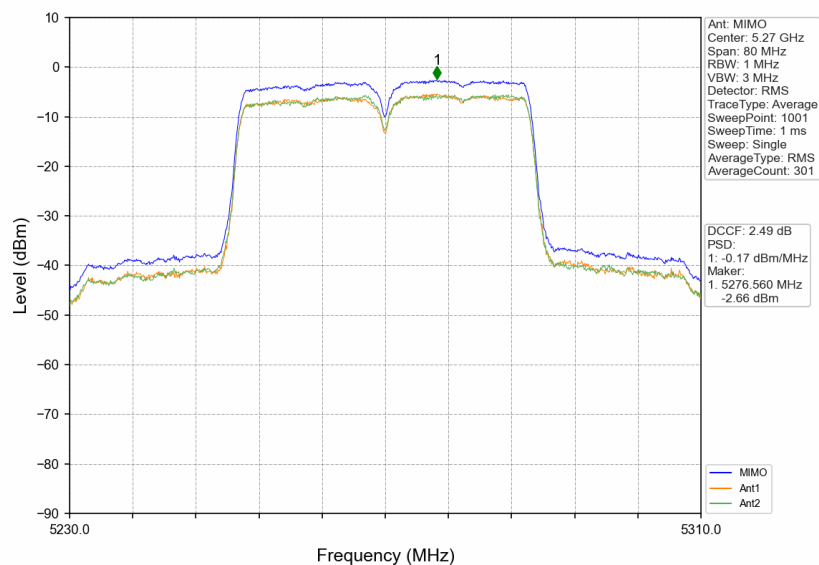
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802.11n(HT40)_LCH_5270MHz_Ant2_NTNV



802.11n(HT40)_LCH_5270MHz_MIMO_NTNV



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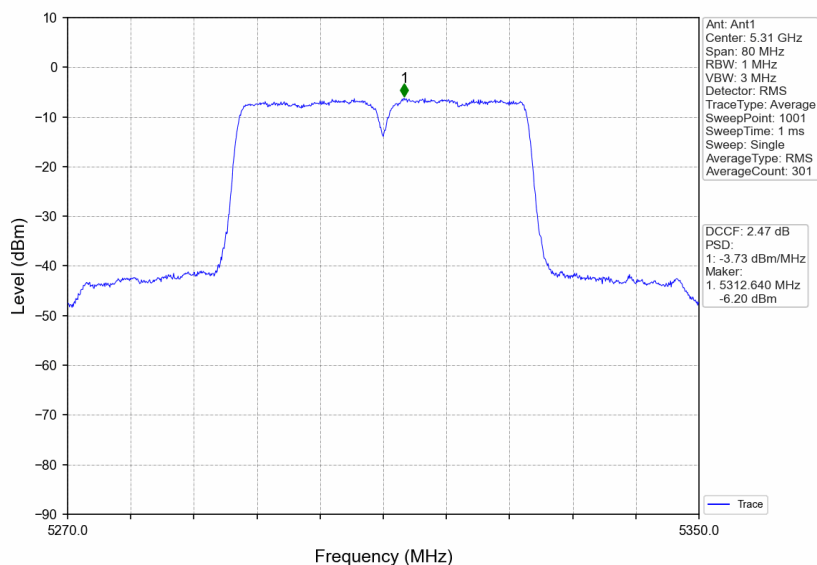
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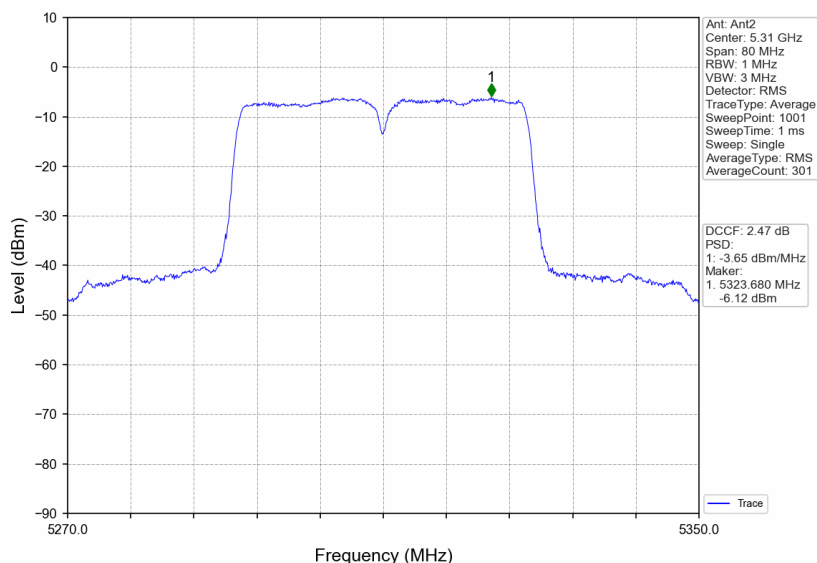
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802.11n(HT40)_HCH_5310MHz_Ant1_NTNV



802.11n(HT40)_HCH_5310MHz_Ant2_NTNV



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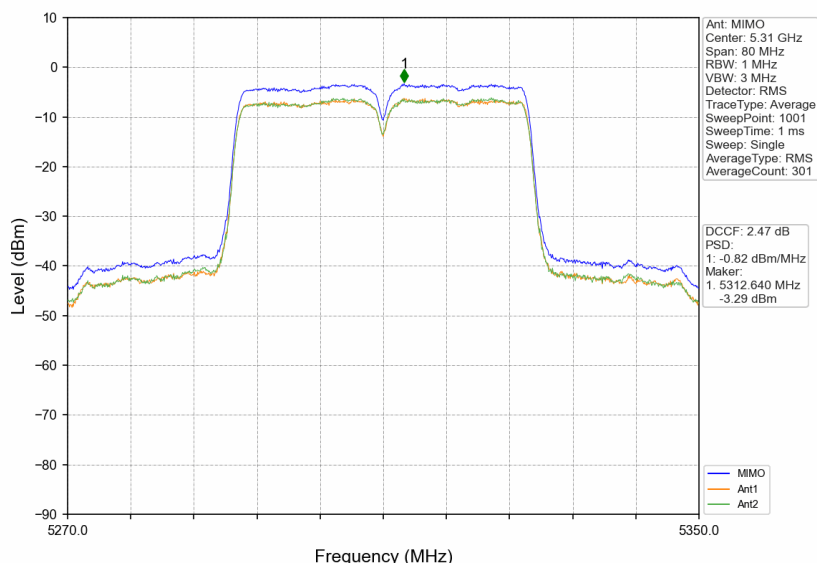
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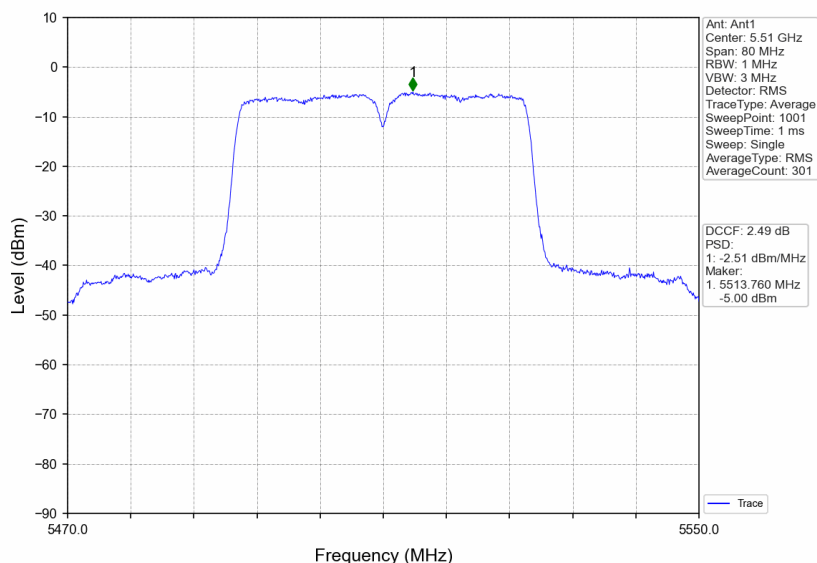
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802.11n(HT40)_HCH_5310MHz_MIMO_NTNV



802.11n(HT40)_LCH_5510MHz_Ant1_NTNV



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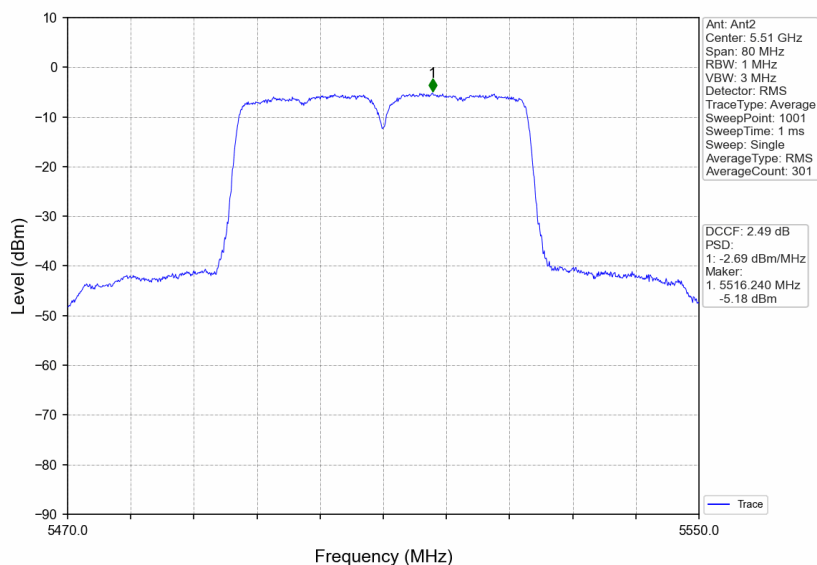
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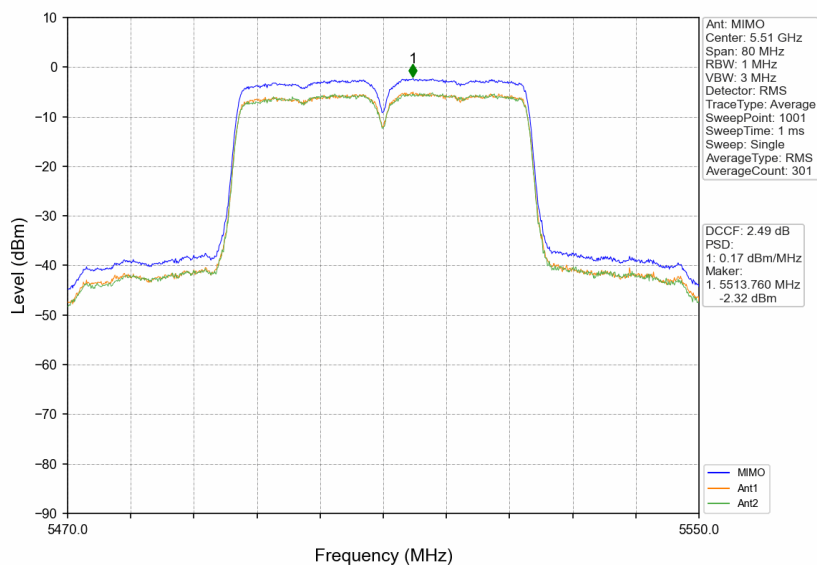
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802.11n(HT40)_LCH_5510MHz_Ant2_NTNV



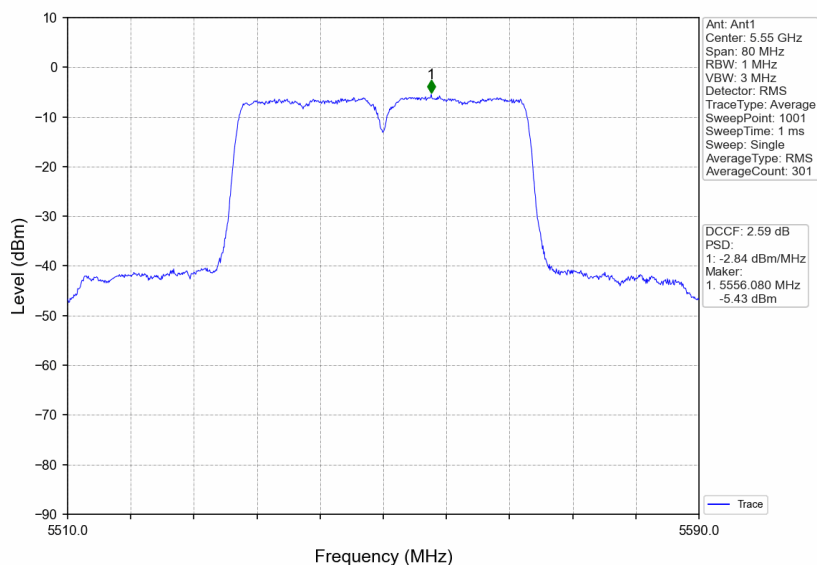
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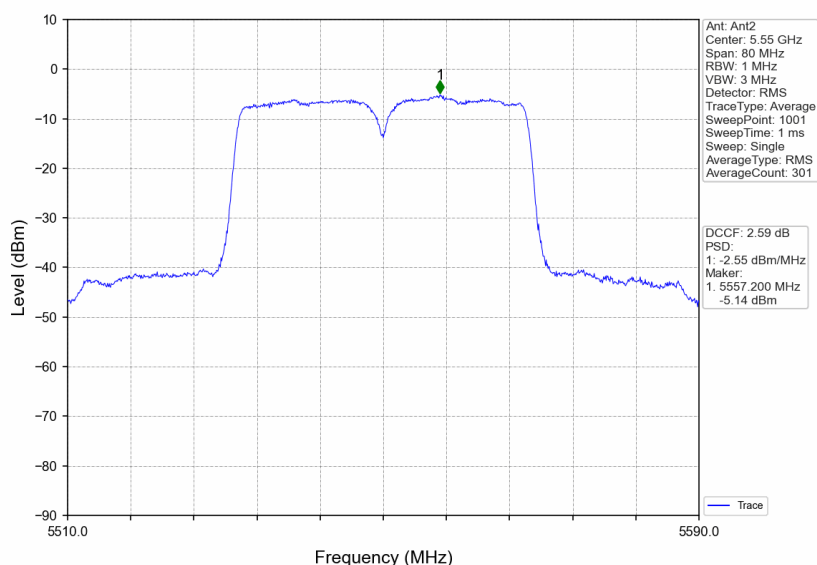
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802.11n(HT40)_MCH_5550MHz_Ant1_NTNV



802.11n(HT40)_MCH_5550MHz_Ant2_NTNV



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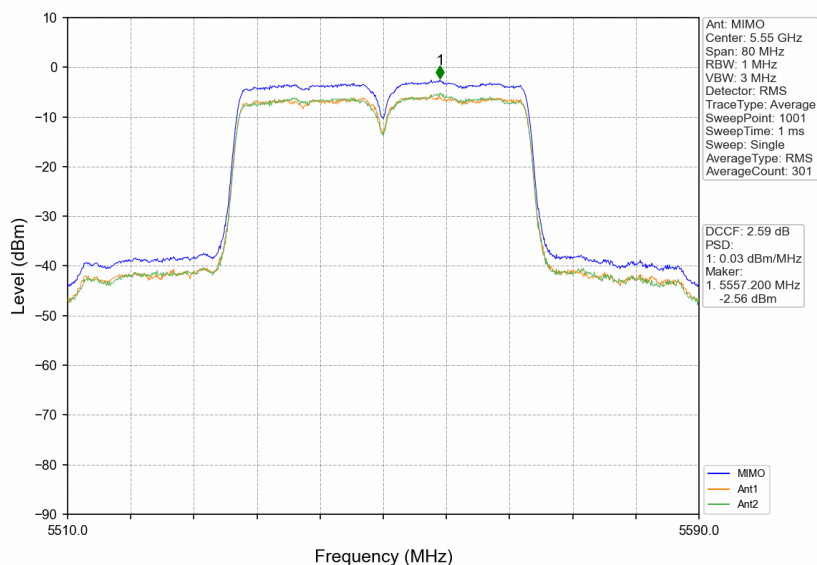
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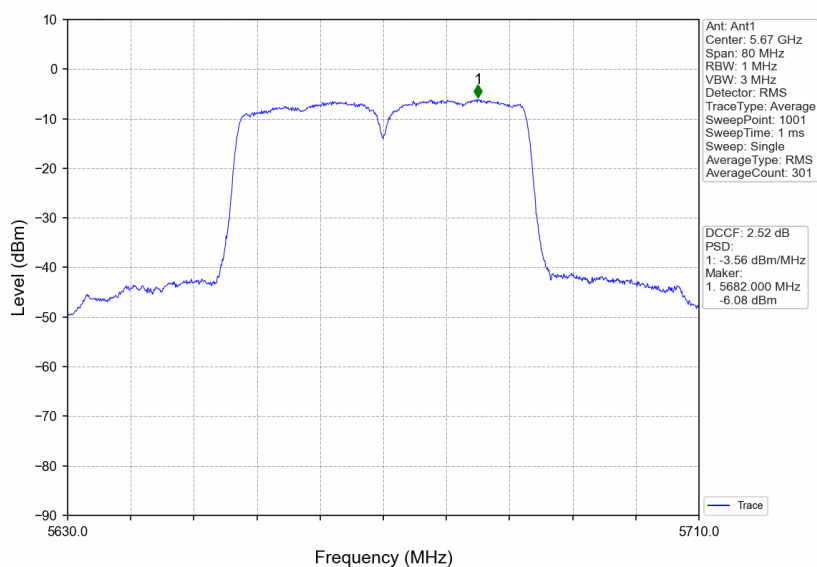
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802.11n(HT40)_MCH_5550MHz_MIMO_NTNV



802.11n(HT40)_HCH_5670MHz_Ant1_NTNV



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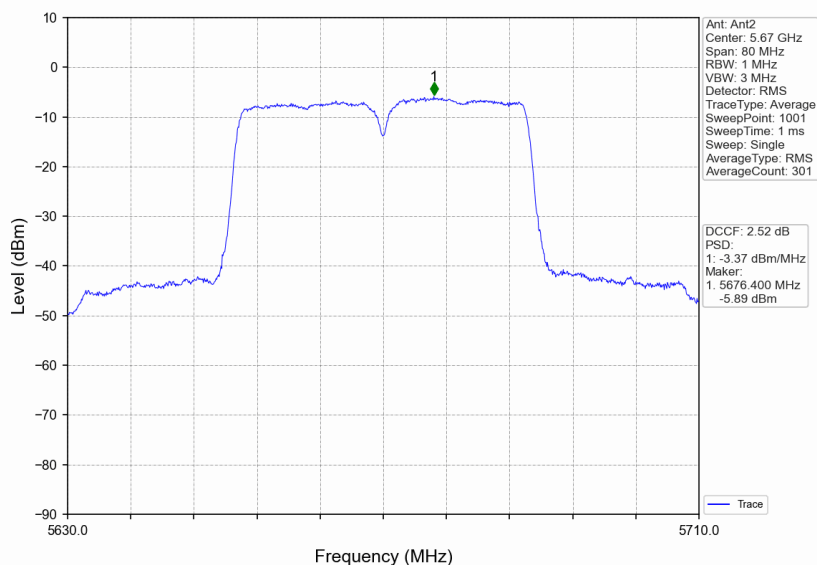
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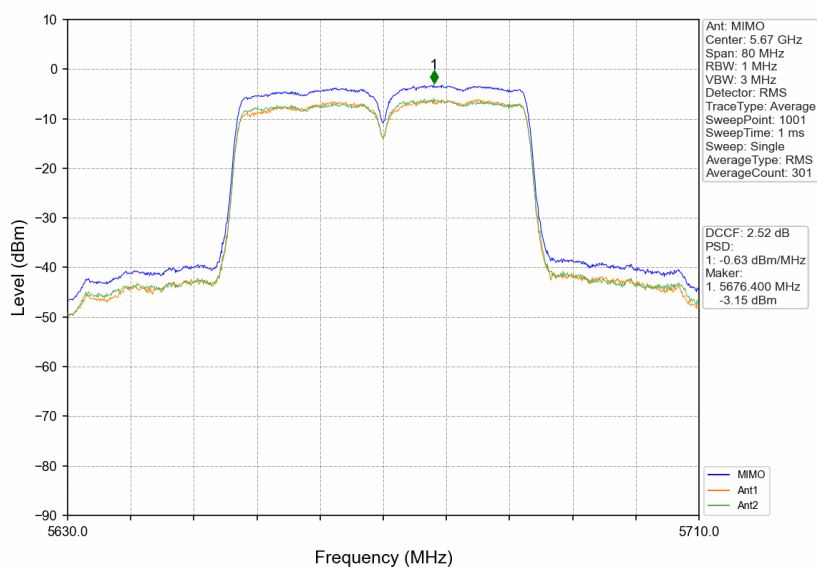
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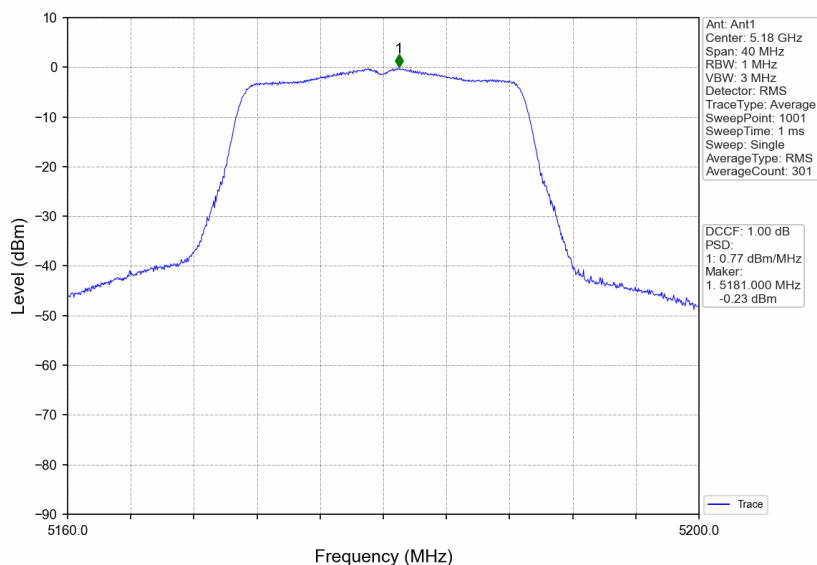
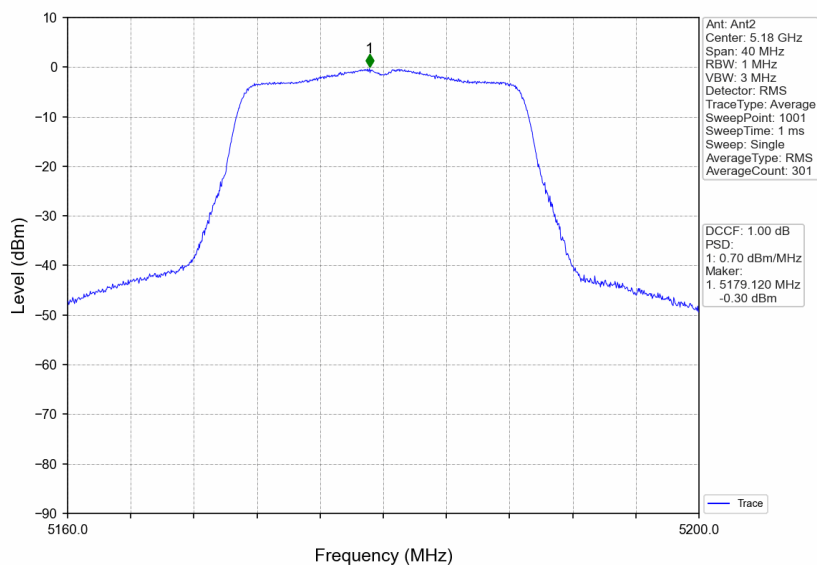


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802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV

802.11ac(VHT20)_LCH_5180MHz_Ant2_NTNV


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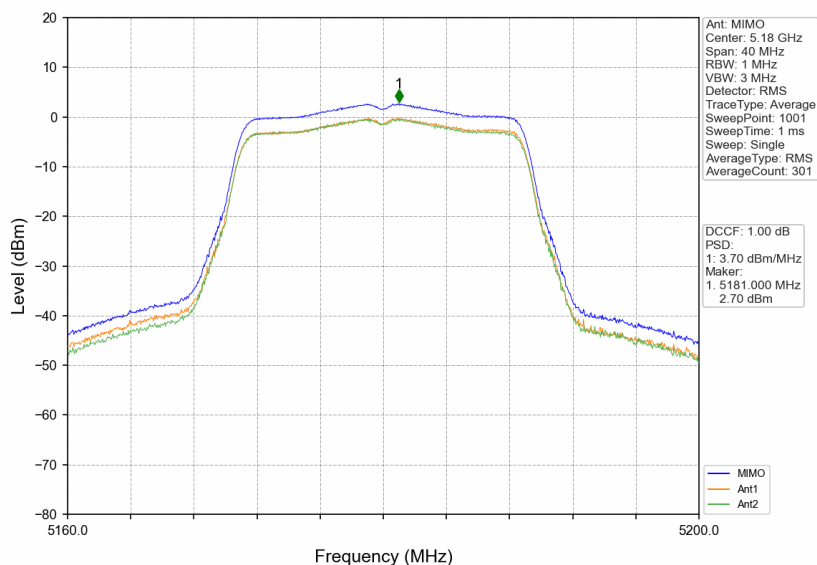
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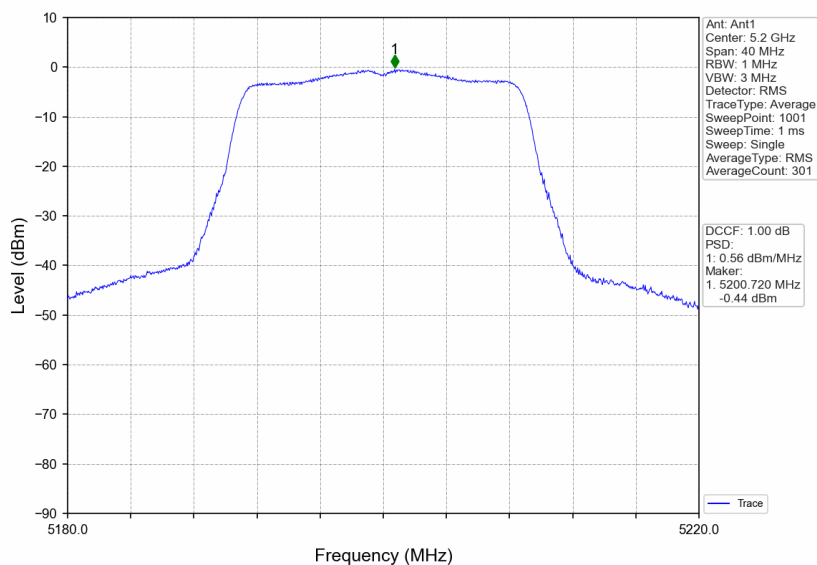
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802.11ac(VHT20)_LCH_5180MHz_MIMO_NTNV

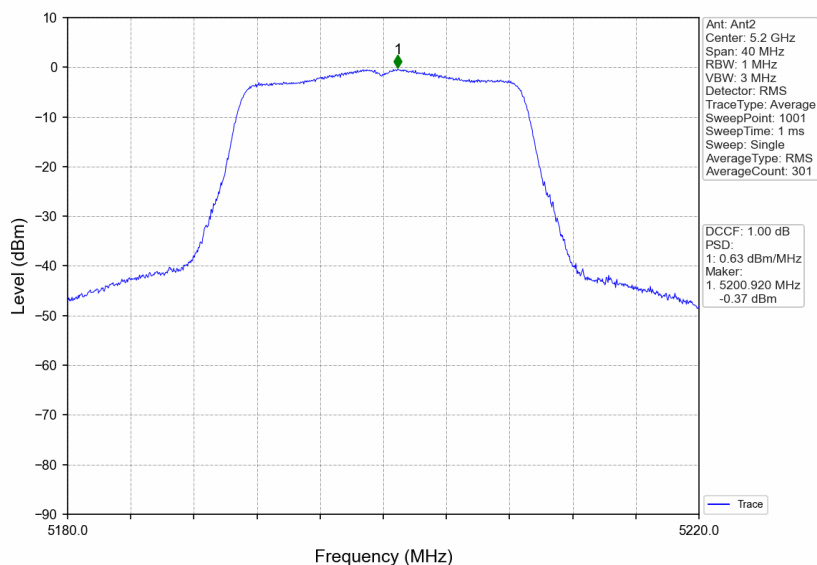
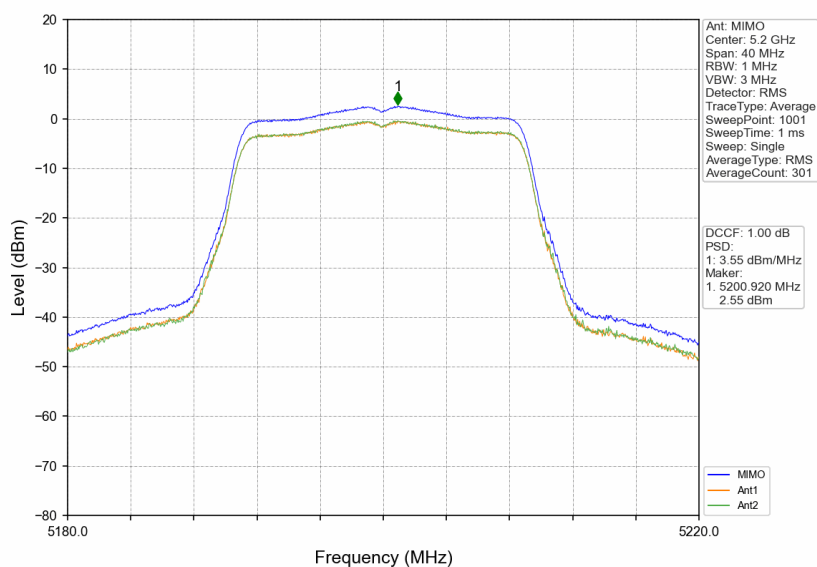


802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



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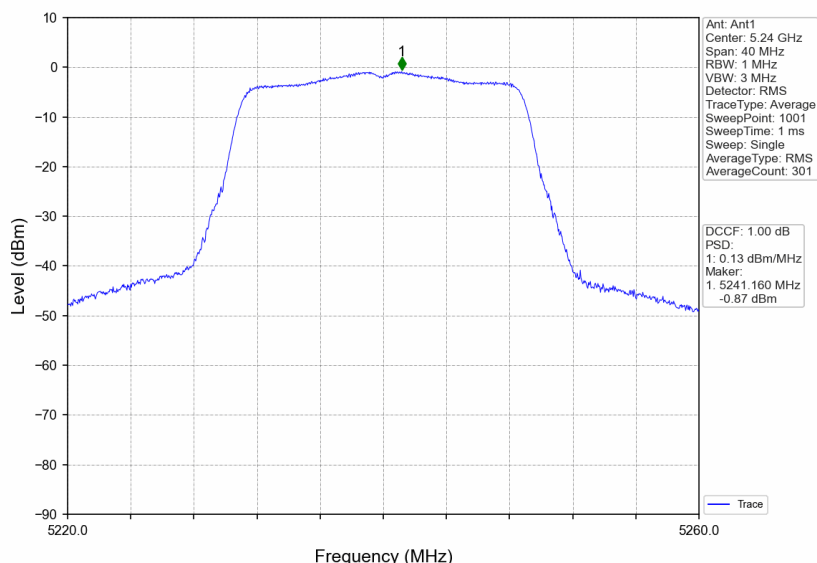
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802.11ac(VHT20)_MCH_5200MHz_MIMO_NTNV


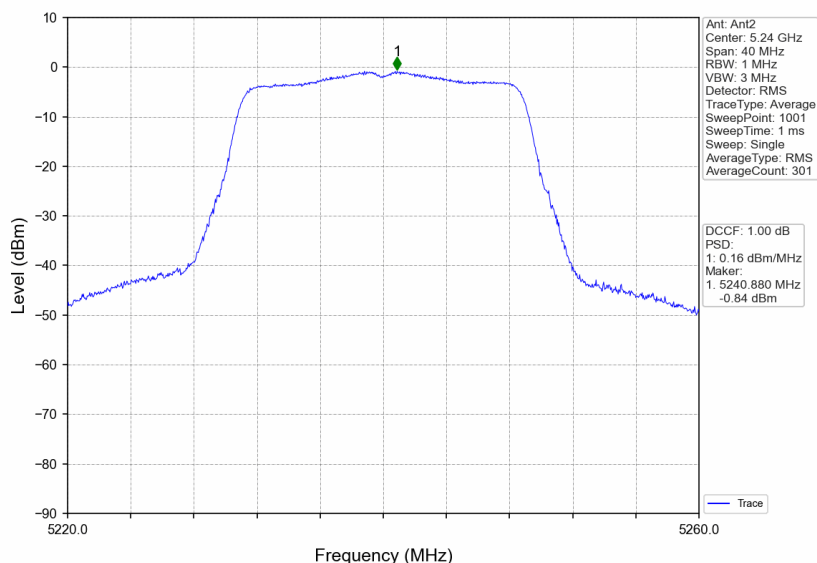
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802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



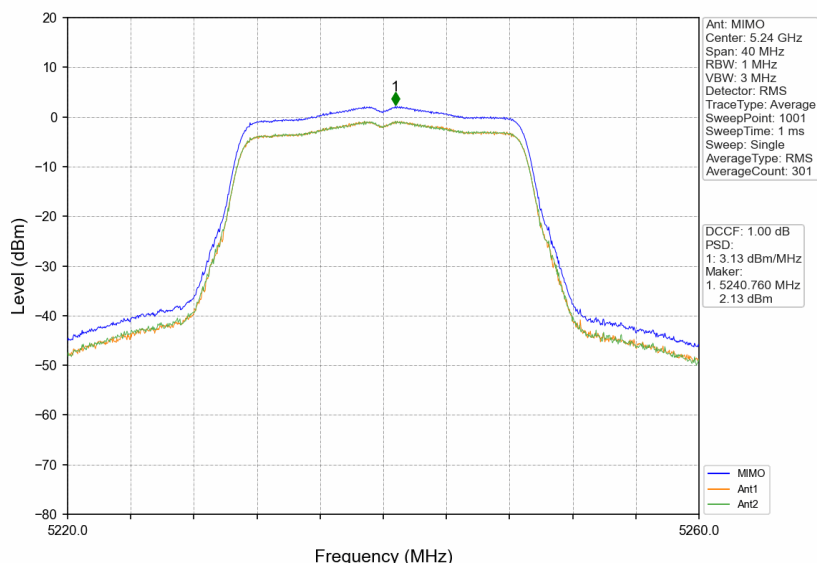
802.11ac(VHT20)_HCH_5240MHz_Ant2_NTNV



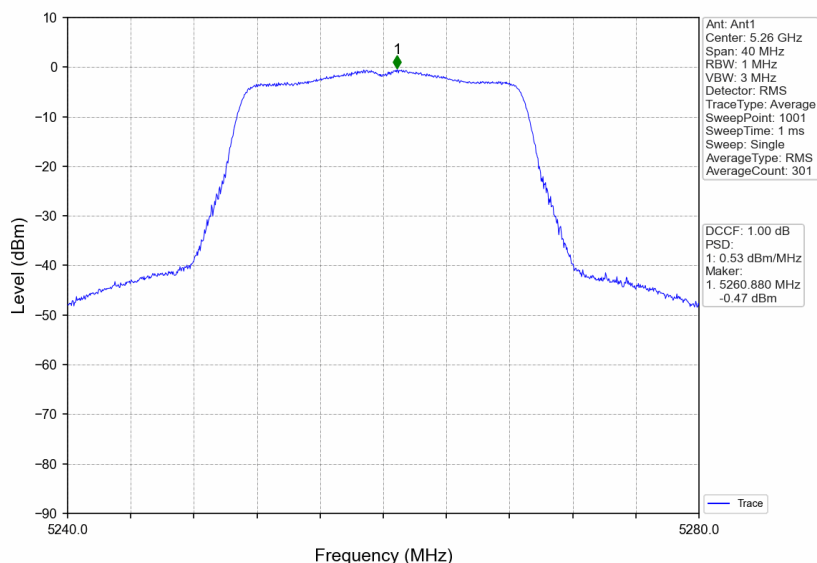
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802.11ac(VHT20)_HCH_5240MHz_MIMO_NTNV



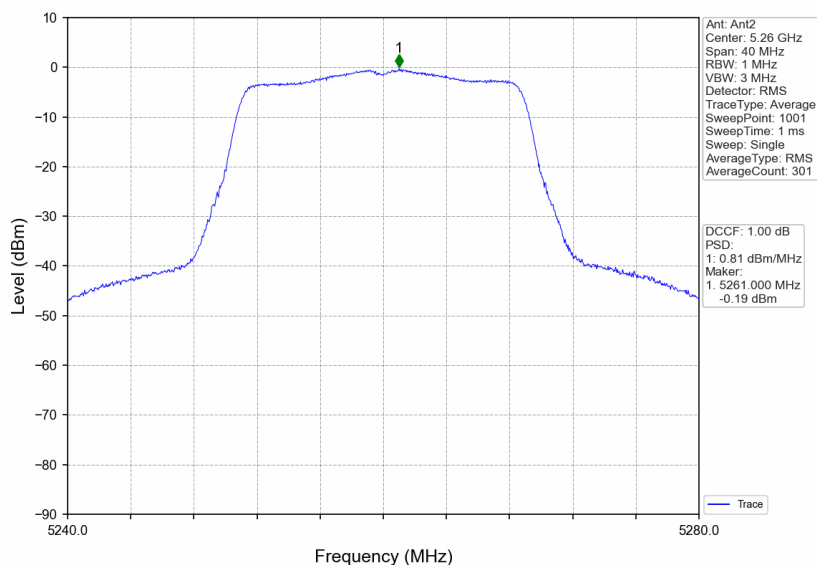
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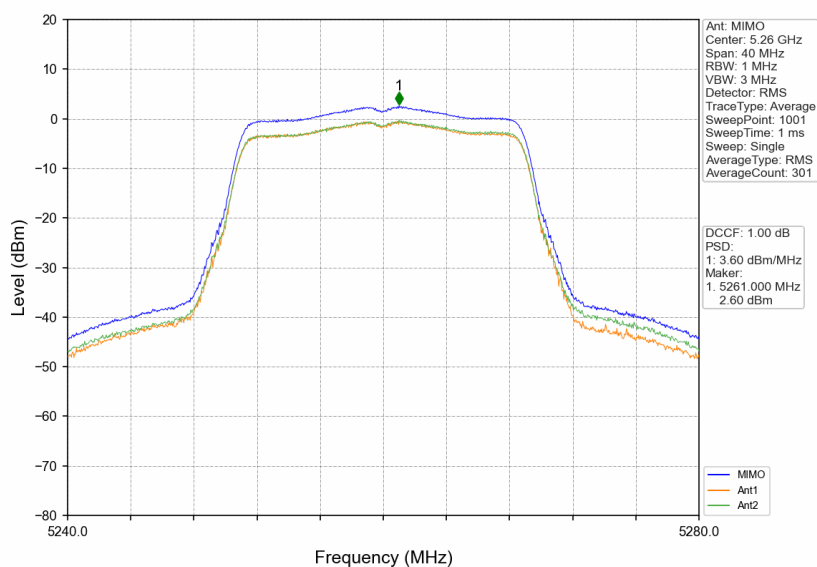
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802.11ac(VHT20)_LCH_5260MHz_Ant2_NTNV



802.11ac(VHT20)_LCH_5260MHz_MIMO_NTNV



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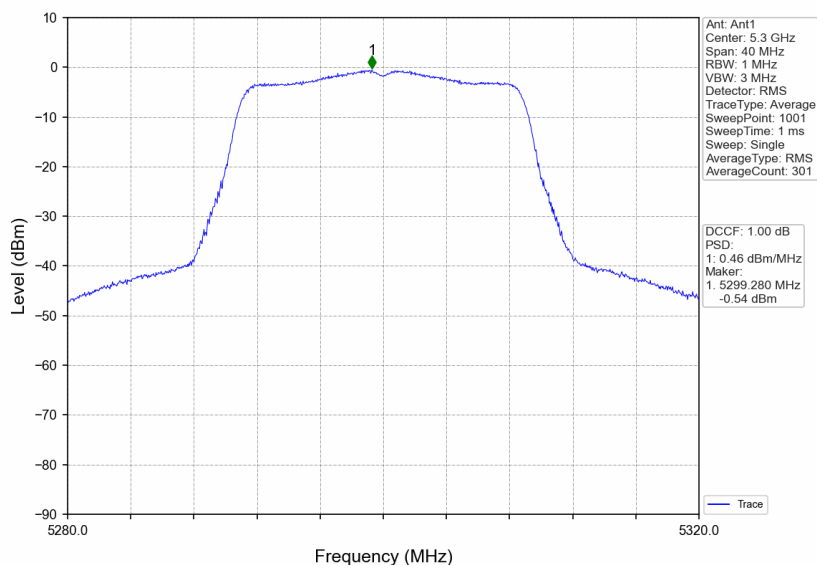
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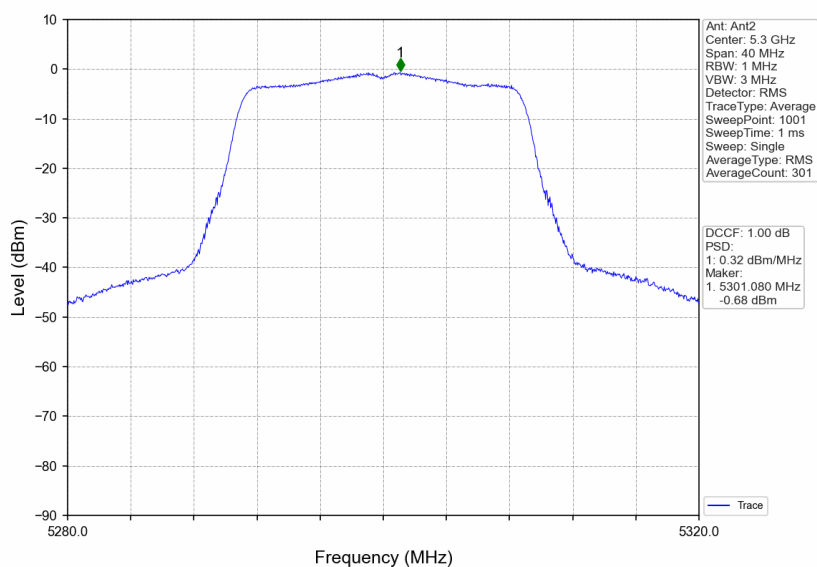
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802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



802.11ac(VHT20)_MCH_5300MHz_Ant2_NTNV



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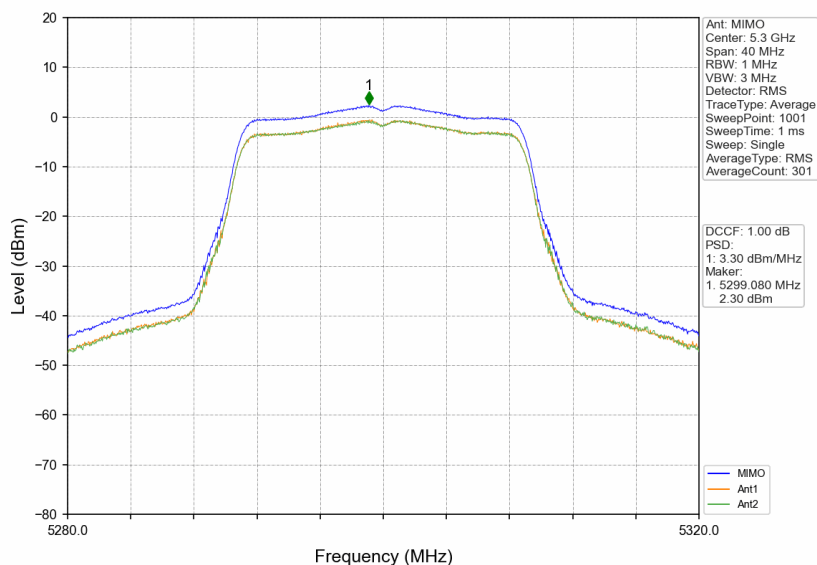
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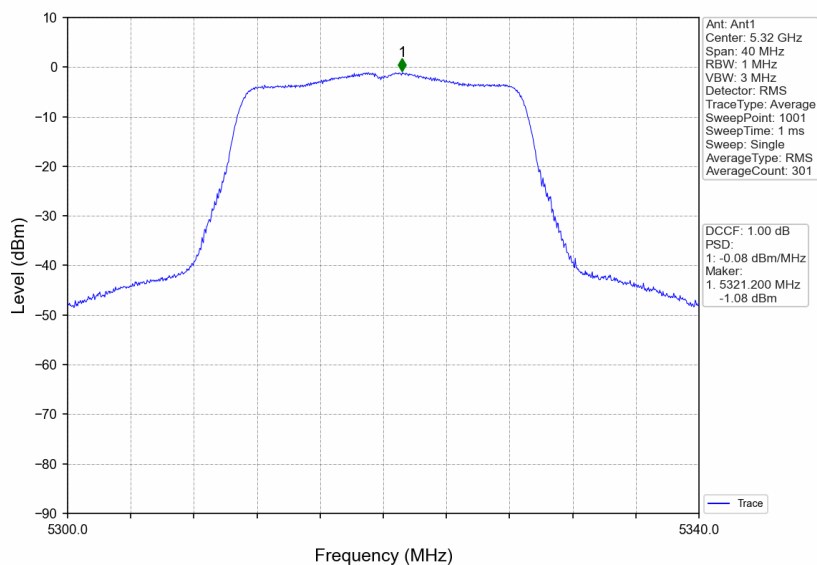
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802.11ac(VHT20)_MCH_5300MHz_MIMO_NTNV



802.11ac(VHT20)_HCH_5320MHz_Ant1_NTNV



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