

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 | 0.39 | -1.92 | / | <=11 | Pass |
| | | 5200 | 0.47 | -1.87 | / | <=11 | Pass |
| | | 5240 | 0.56 | -2.37 | / | <=11 | Pass |
| 802.11n (HT20) | MIMO | 5180 | -1.01 | -2.99 | 0.99 | <=11 | Pass |
| | | 5200 | -0.85 | -2.98 | 1.09 | <=11 | Pass |
| | | 5240 | -1.00 | -3.55 | 0.86 | <=11 | Pass |
| 802.11n (HT40) | MIMO | 5190 | -3.39 | -6.45 | -1.81 | <=11 | Pass |
| | | 5230 | -3.37 | -6.50 | -1.84 | <=11 | Pass |
| 802.11ac (VHT20) | MIMO | 5180 | -0.97 | -2.97 | 1.11 | <=11 | Pass |
| | | 5200 | -0.96 | -3.08 | 1.05 | <=11 | Pass |
| | | 5240 | -0.97 | -3.50 | 0.91 | <=11 | Pass |
| 802.11ac (VHT40) | MIMO | 5190 | -3.48 | -6.61 | -1.80 | <=11 | Pass |
| | | 5230 | -3.47 | -6.61 | -1.79 | <=11 | Pass |
| 802.11ac (VHT80) | MIMO | 5210 | -6.70 | -9.58 | -5.18 | <=11 | Pass |

Note1: Antenna Gain: Ant1: 2.30dBi; Ant2: 0.78dBi;

4.1.1 Test Result for IC

| Mode | TX Type | Frequency (MHz) | Maximum PSD (dBm/MHz) | | | EIRP PSD (dBm/MHz) | | | Limit | Verdict |
|------------------|---------|-----------------|-----------------------|-------|-------|--------------------|-------|-------|-------|---------|
| | | | Ant1 | Ant2 | MIMO | Ant1 | Ant2 | MIMO | | |
| 802.11a | SISO | 5180 | 0.39 | -1.92 | / | 2.69 | -1.14 | / | <=10 | Pass |
| | | 5200 | 0.47 | -1.87 | / | 2.77 | -1.09 | / | <=10 | Pass |
| | | 5240 | 0.56 | -2.37 | / | 2.86 | -1.59 | / | <=10 | Pass |
| 802.11n (HT20) | MIMO | 5180 | -1.01 | -2.99 | 0.99 | 1.29 | -2.21 | 2.89 | <=10 | Pass |
| | | 5200 | -0.85 | -2.98 | 1.09 | 1.45 | -2.20 | 3.01 | <=10 | Pass |
| | | 5240 | -1.00 | -3.55 | 0.86 | 1.30 | -2.77 | 2.74 | <=10 | Pass |
| 802.11n (HT40) | MIMO | 5190 | -3.39 | -6.45 | -1.81 | -1.09 | -5.67 | 0.21 | <=10 | Pass |
| | | 5230 | -3.37 | -6.50 | -1.84 | -1.07 | -5.72 | 0.21 | <=10 | Pass |
| 802.11ac (VHT20) | MIMO | 5180 | -0.97 | -2.97 | 1.11 | 1.33 | -2.19 | 2.93 | <=10 | Pass |
| | | 5200 | -0.96 | -3.08 | 1.05 | 1.34 | -2.30 | 2.90 | <=10 | Pass |
| | | 5240 | -0.97 | -3.50 | 0.91 | 1.33 | -2.72 | 2.77 | <=10 | Pass |
| 802.11ac (VHT40) | MIMO | 5190 | -3.48 | -6.61 | -1.80 | -1.18 | -5.83 | 0.10 | <=10 | Pass |
| | | 5230 | -3.47 | -6.61 | -1.79 | -1.17 | -5.83 | 0.11 | <=10 | Pass |
| 802.11ac (VHT80) | MIMO | 5210 | -6.70 | -9.58 | -5.18 | -4.40 | -8.80 | -3.05 | <=10 | Pass |

Note1: Antenna Gain: Ant1: 2.30dBi; Ant2: 0.78dBi;



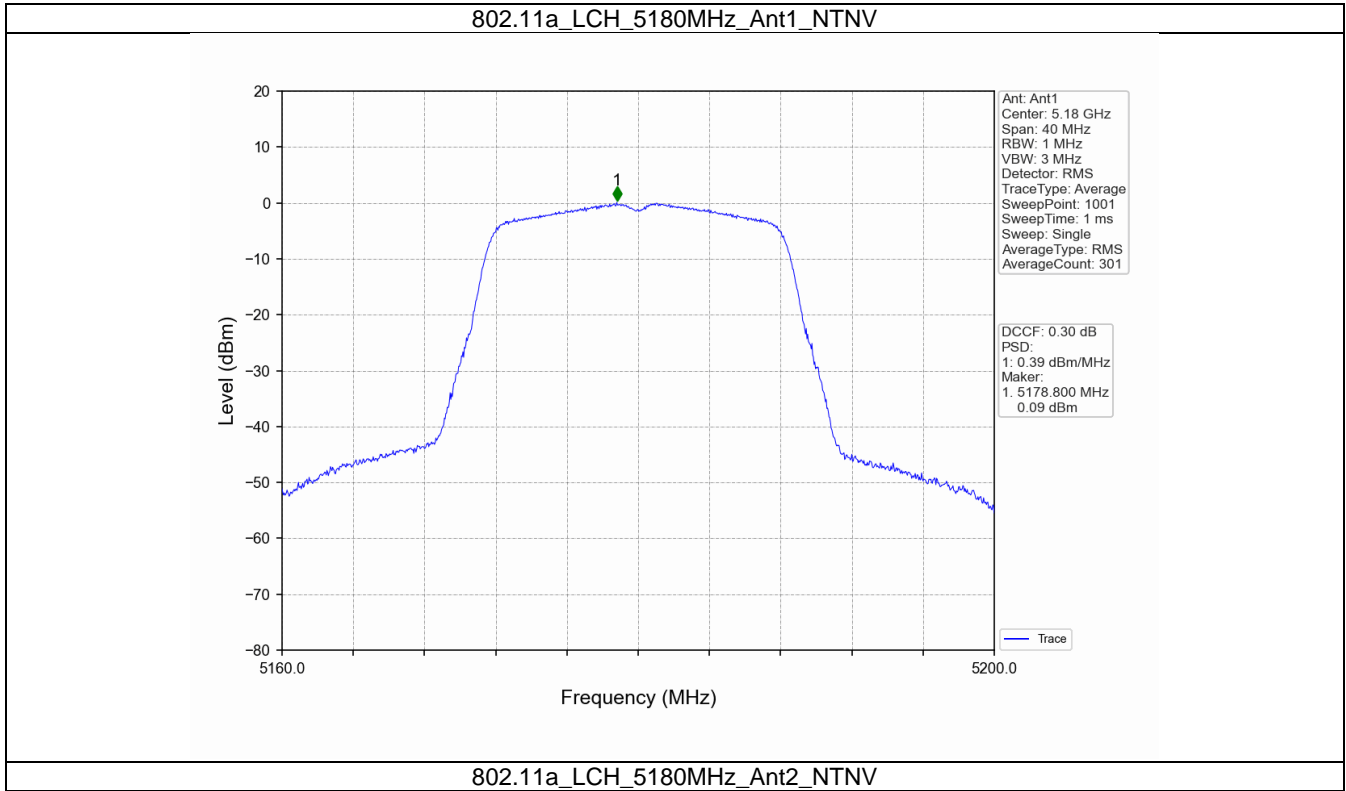
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4.1.2 Test Graph

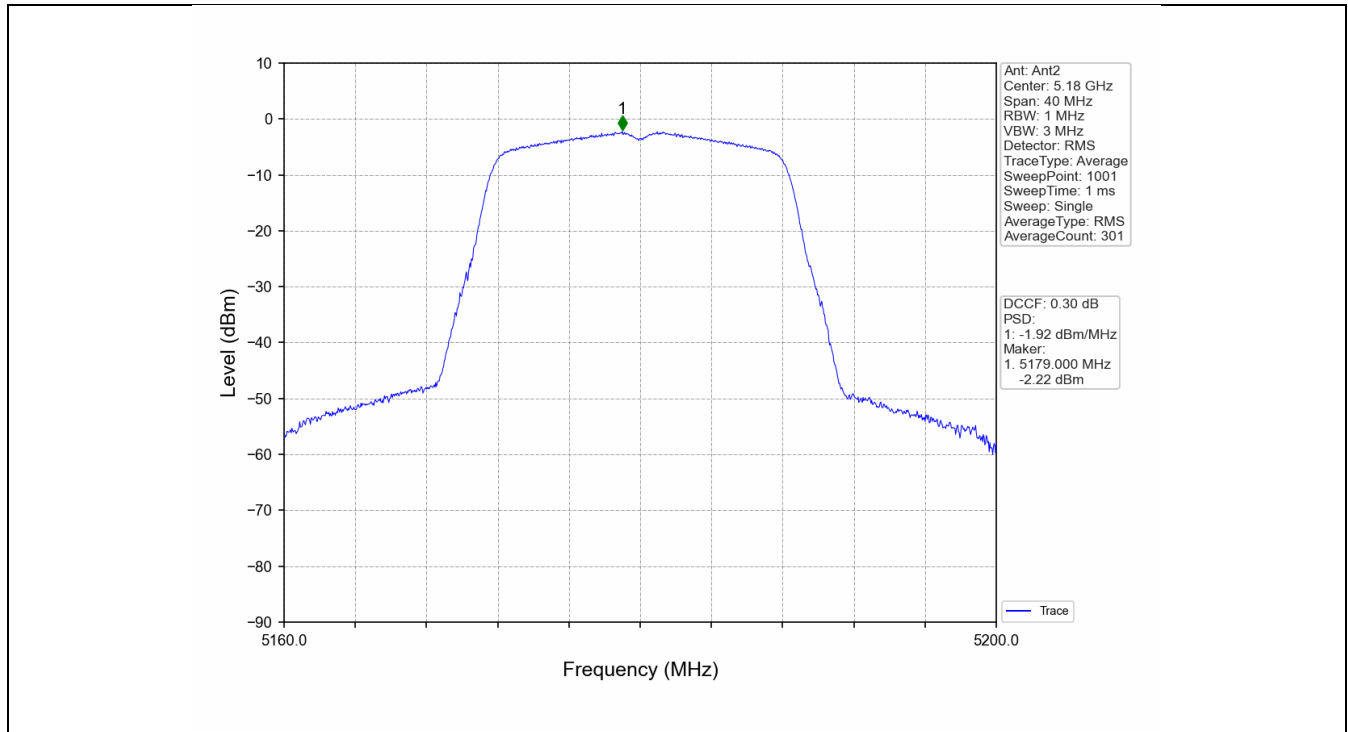


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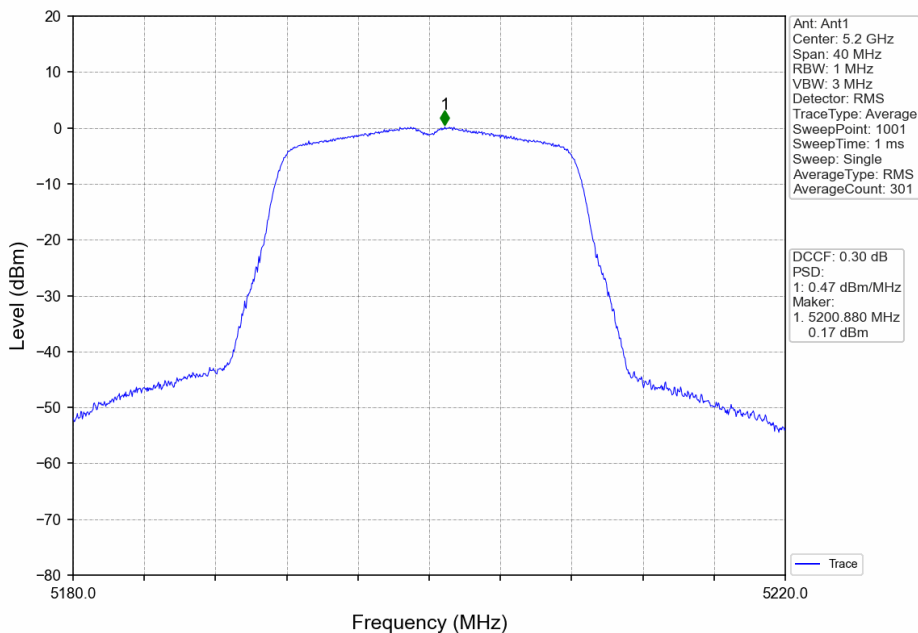
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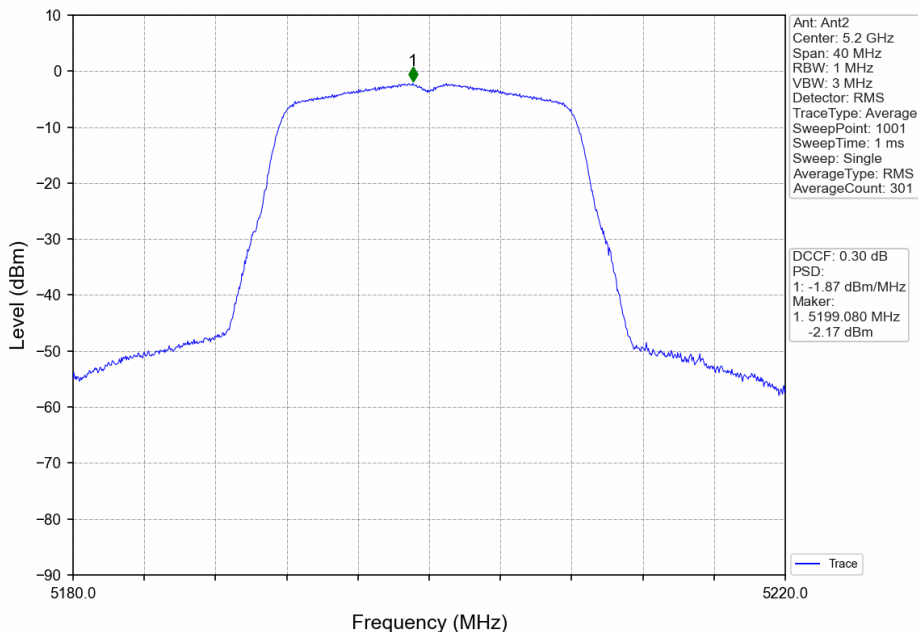
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802.11a_MCH_5200MHz_Ant1_NTNV



802.11a_MCH_5200MHz_Ant2_NTNV



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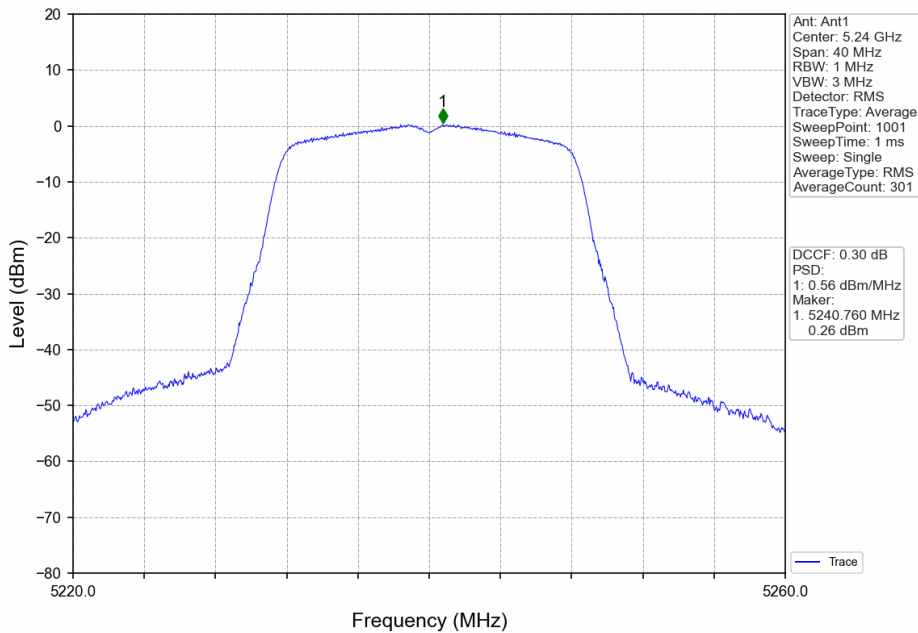
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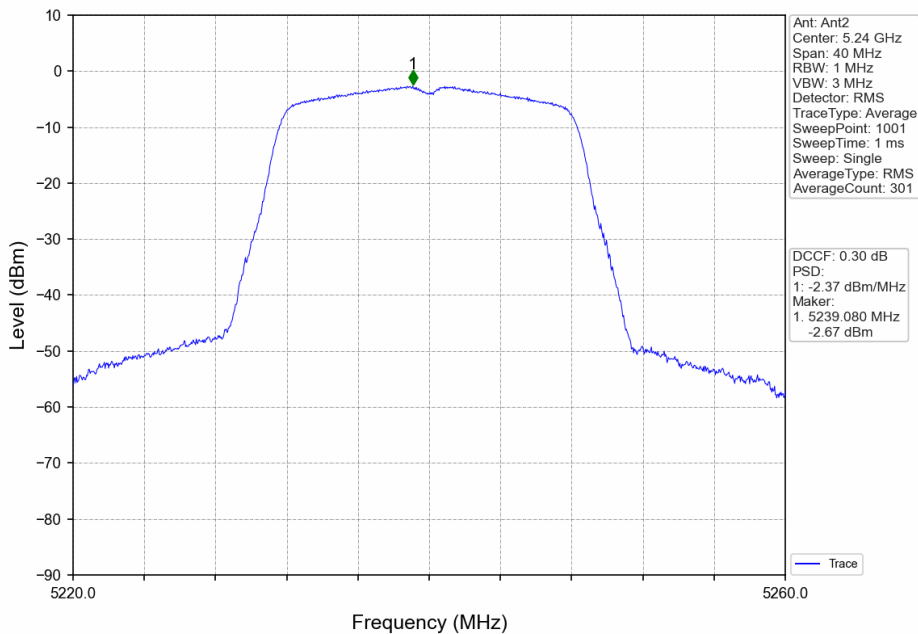
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802.11a_HCH_5240MHz_Ant1_NTNV



802.11a_HCH_5240MHz_Ant2_NTNV



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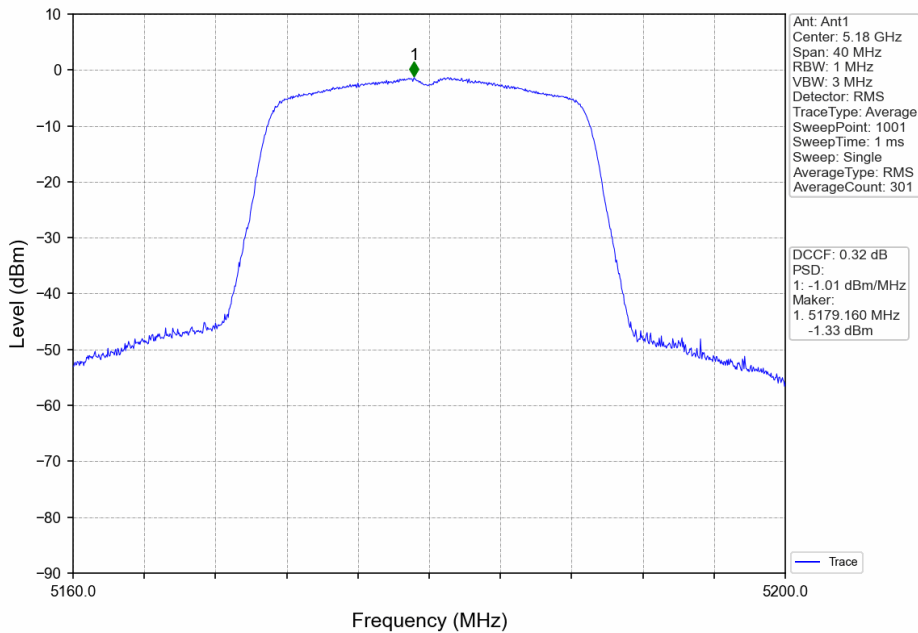
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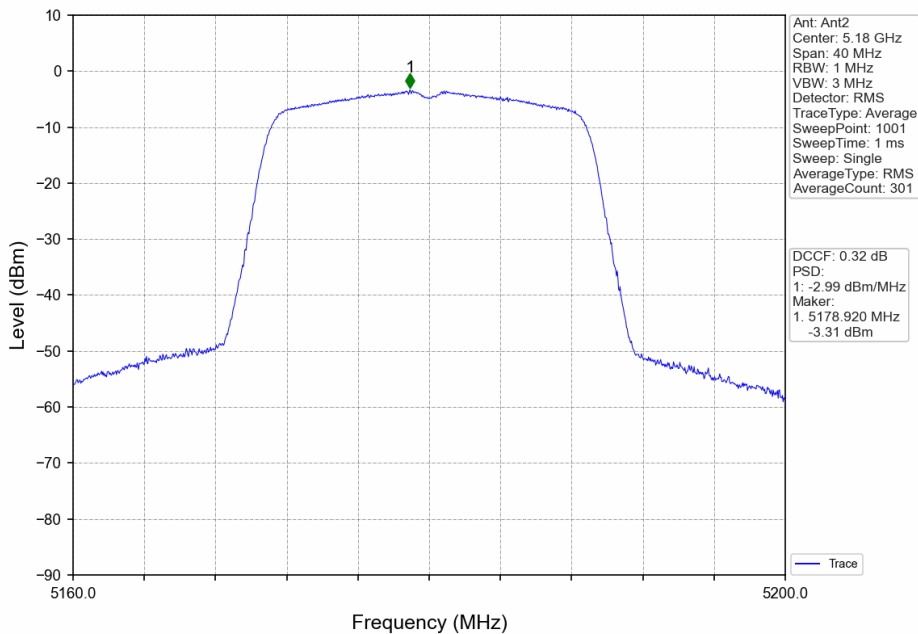
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802.11n(HT20)_LCH_5180MHz_Ant2_NTNV



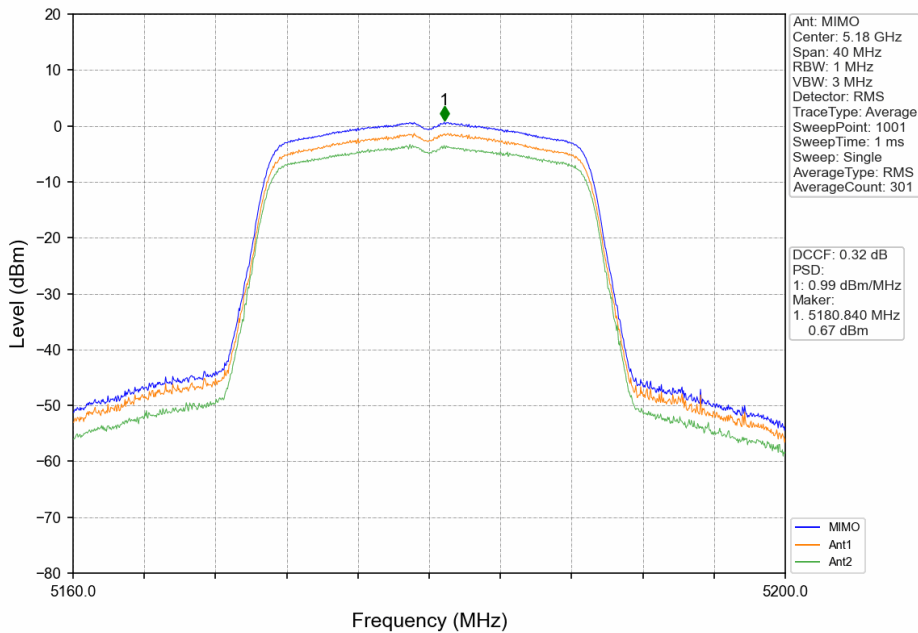
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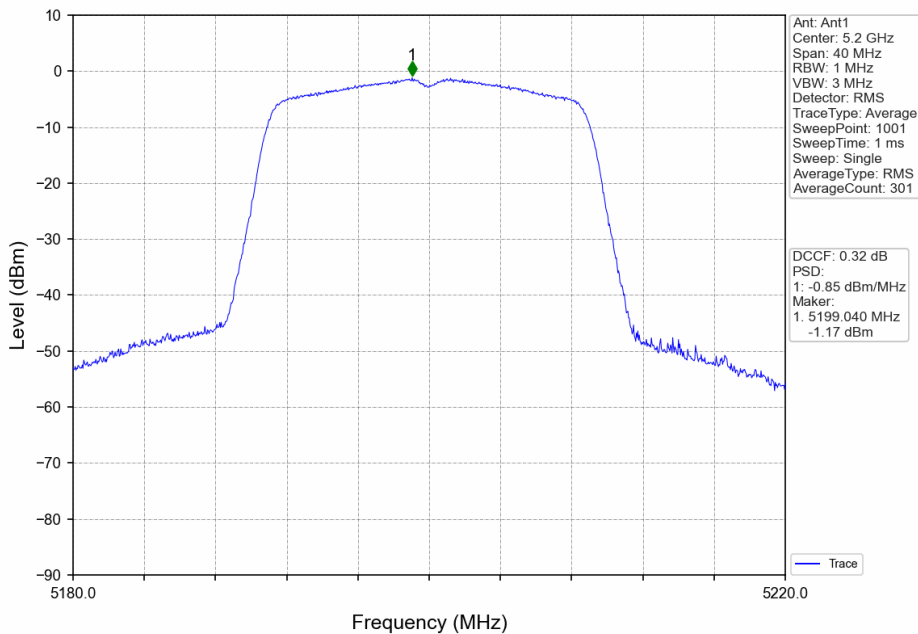
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802.11n(HT20)_LCH_5180MHz_MIMO_NTNV

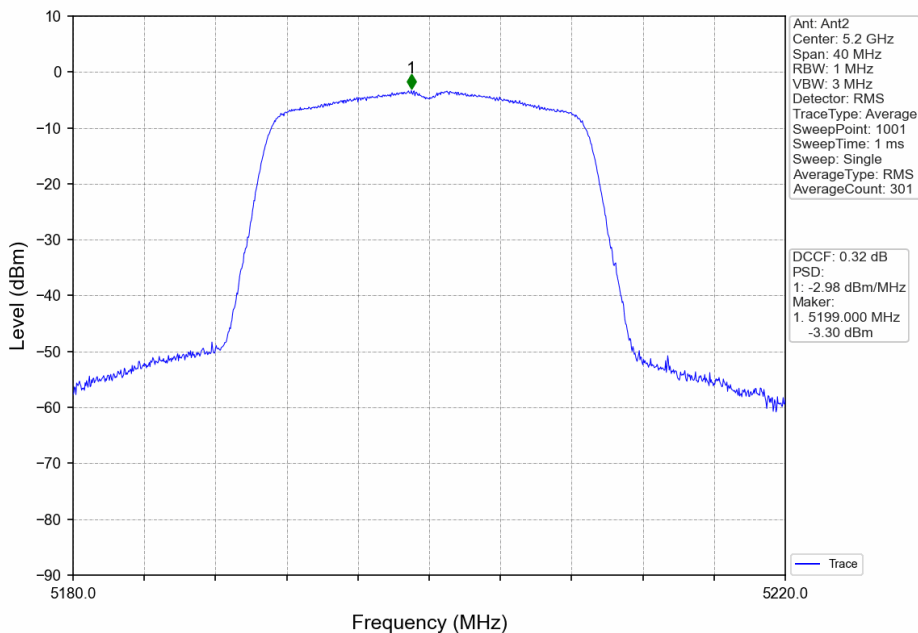


802.11n(HT20)_MCH_5200MHz_Ant1_NTNV

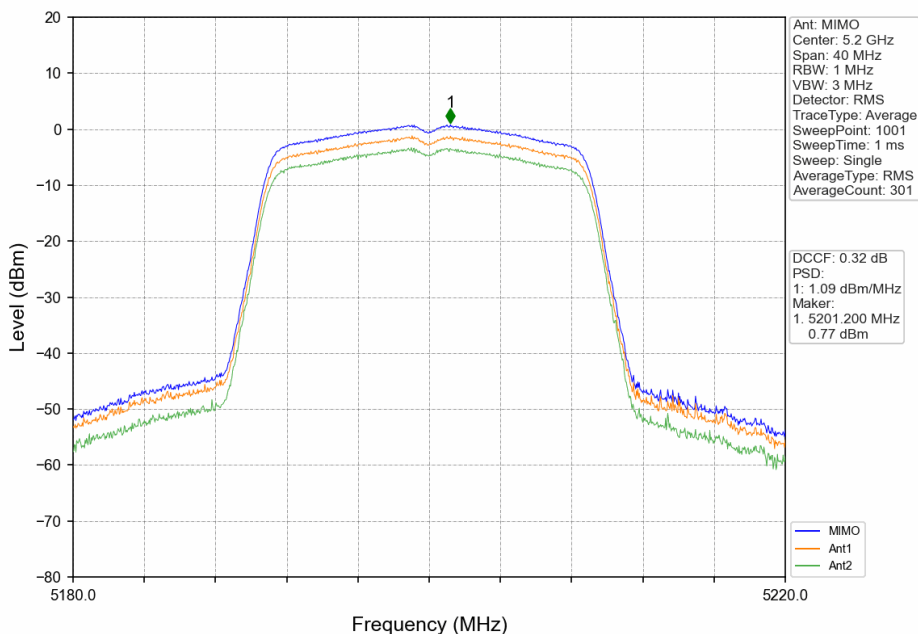


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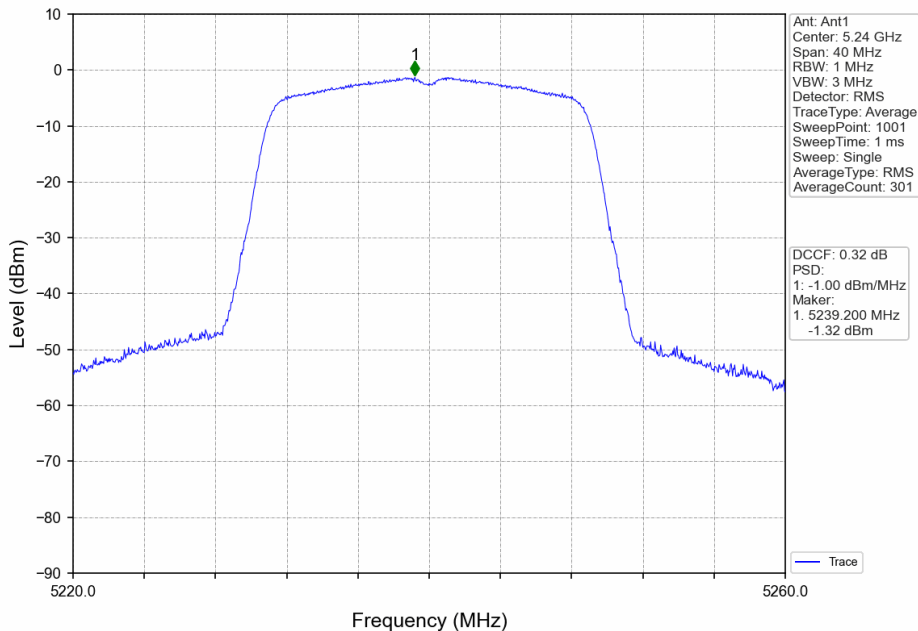


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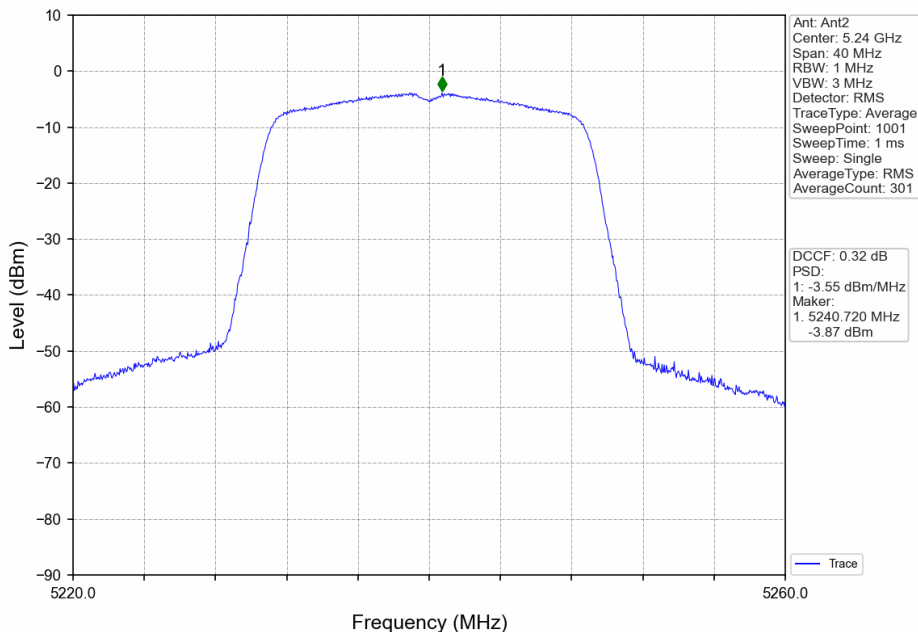


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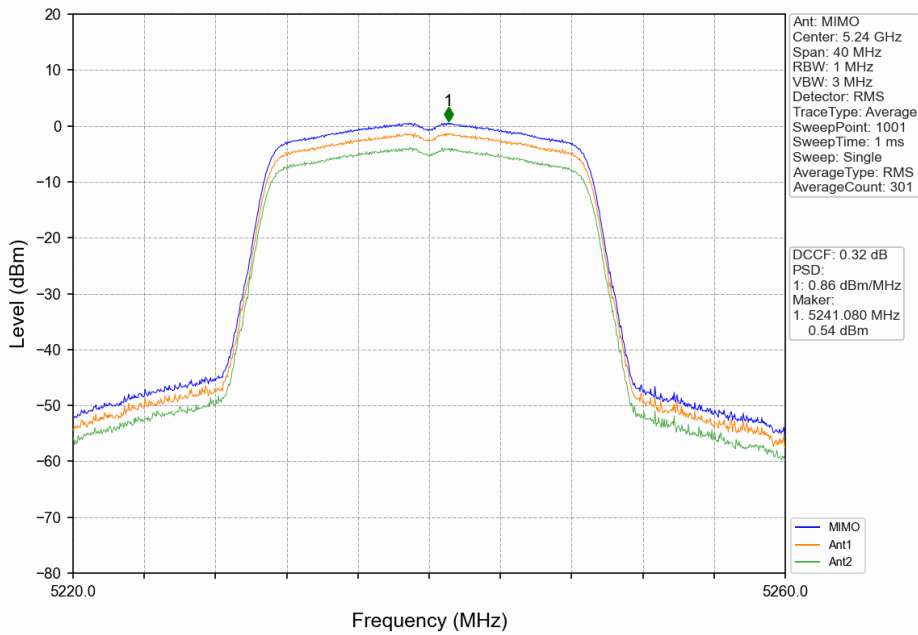


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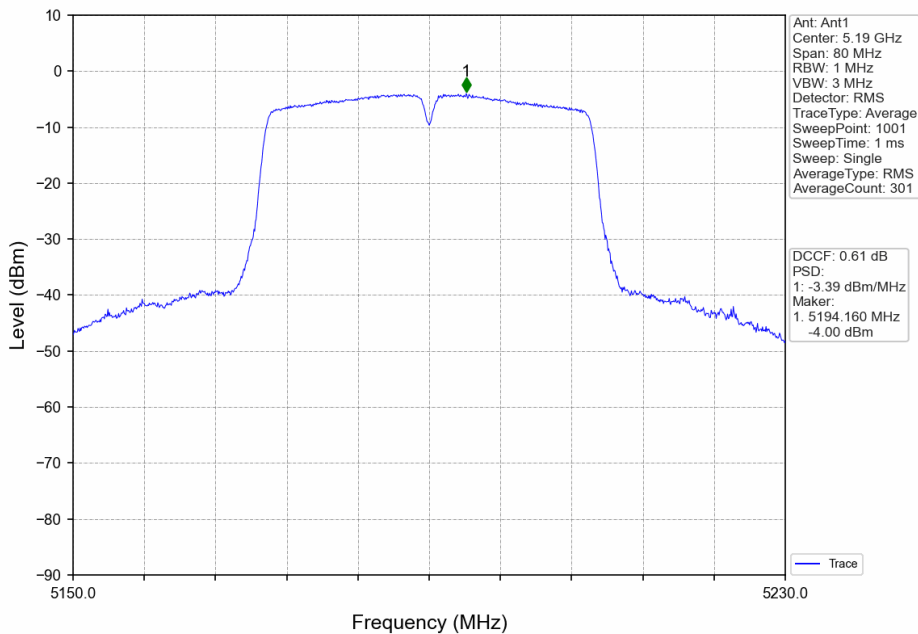
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802.11n(HT40)_LCH_5190MHz_Ant1_NTNV

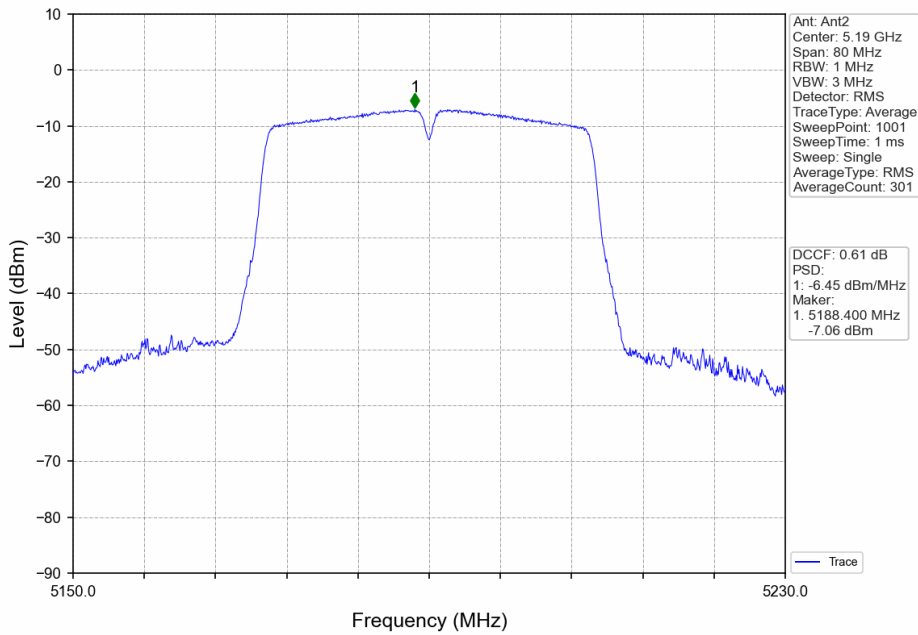


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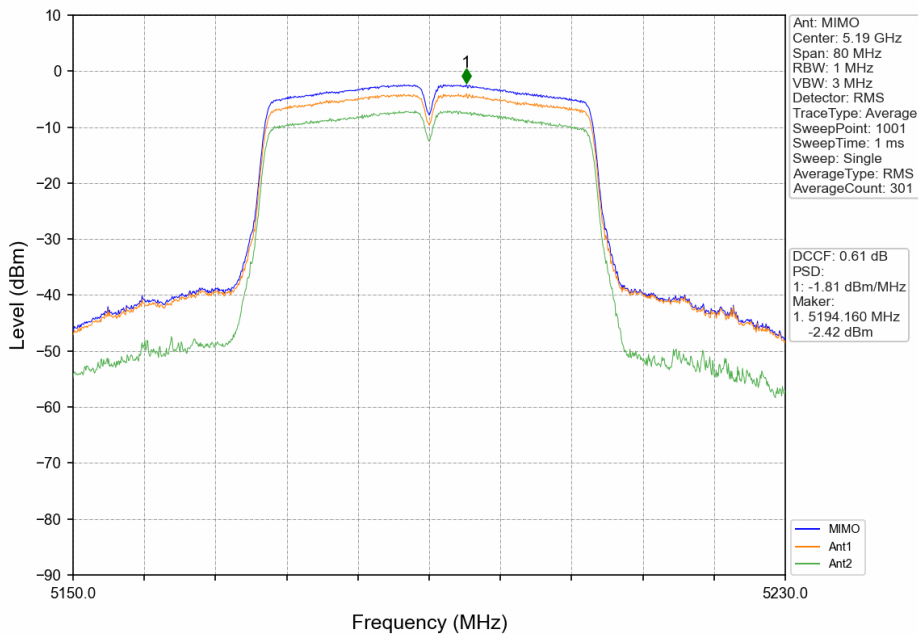
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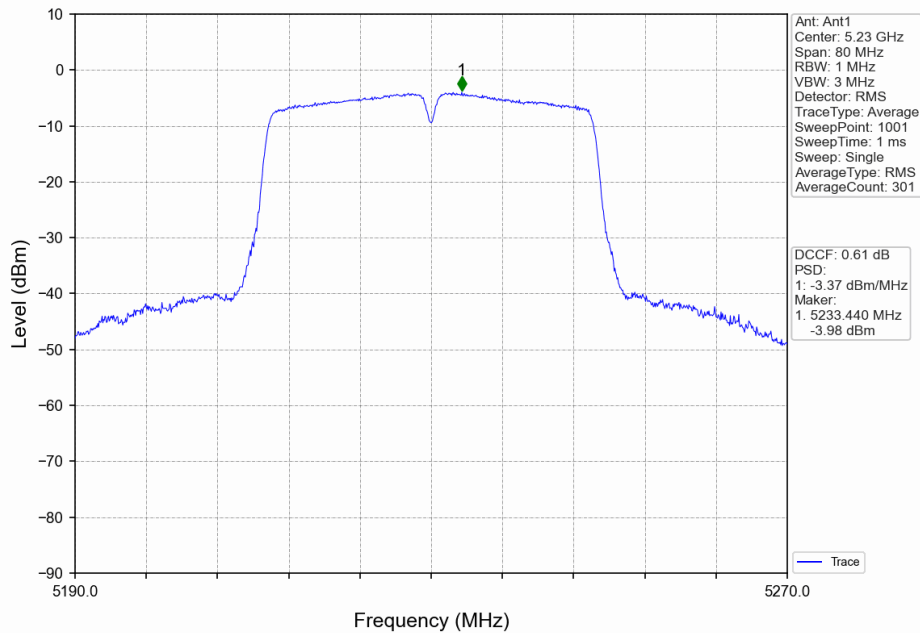


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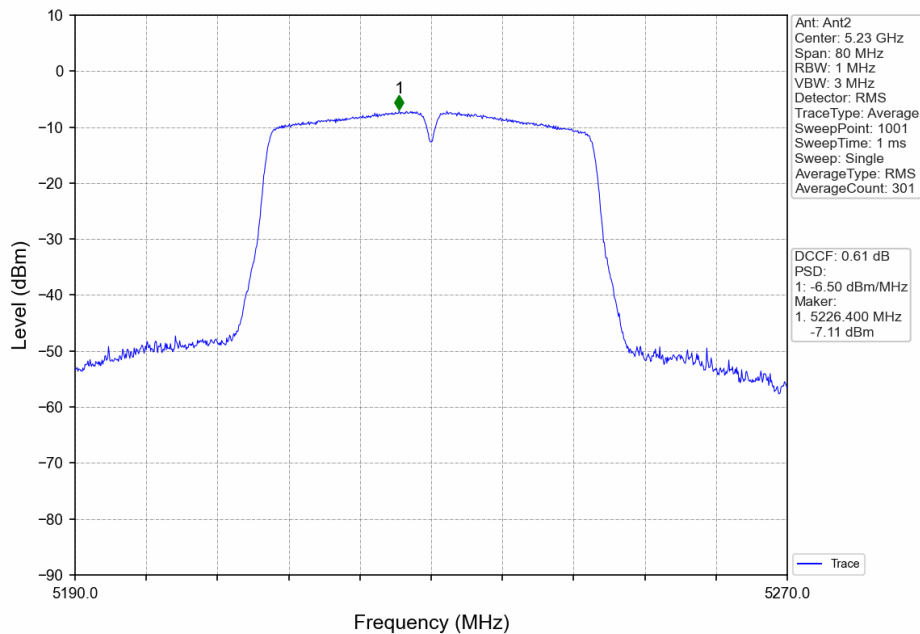


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802.11n(HT40)_HCH_5230MHz_Ant1_NTNV

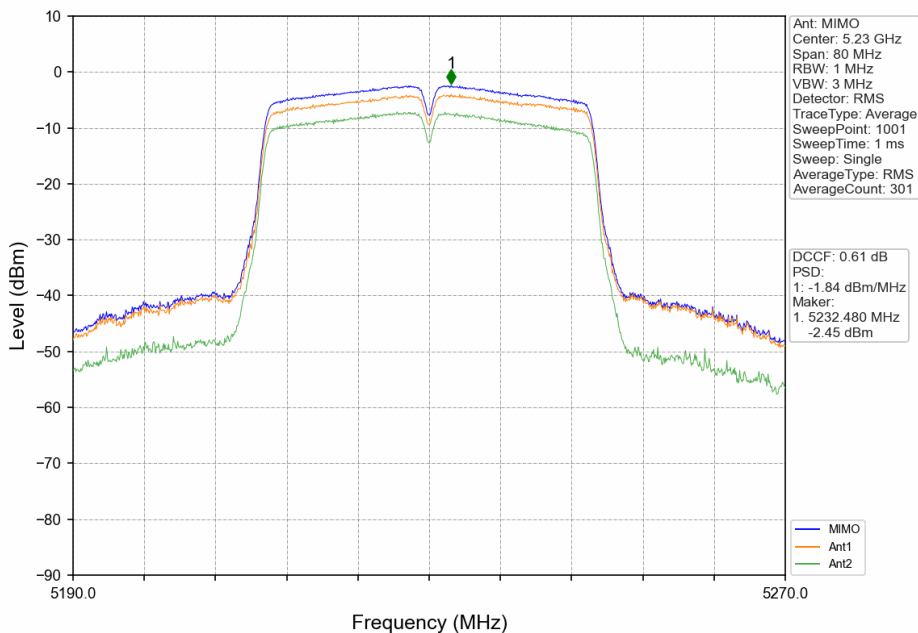


802.11n(HT40)_HCH_5230MHz_Ant2_NTNV

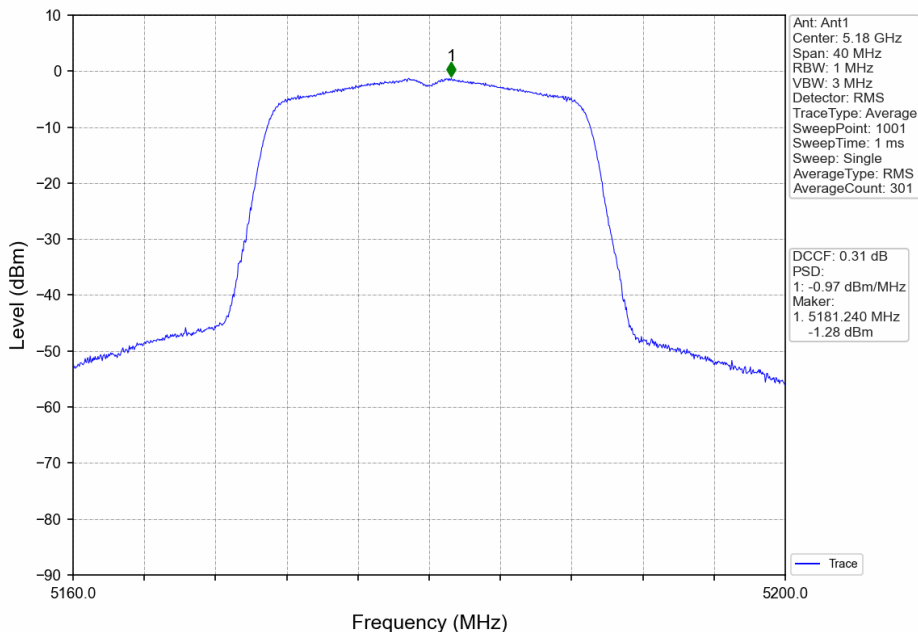


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802.11n(HT40)_HCH_5230MHz_MIMO_NTNV



802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



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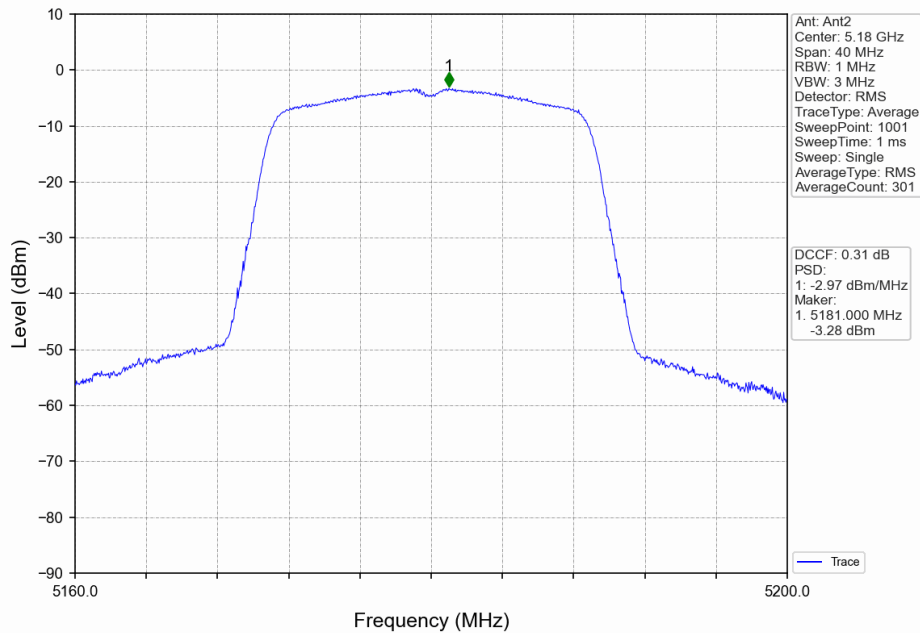
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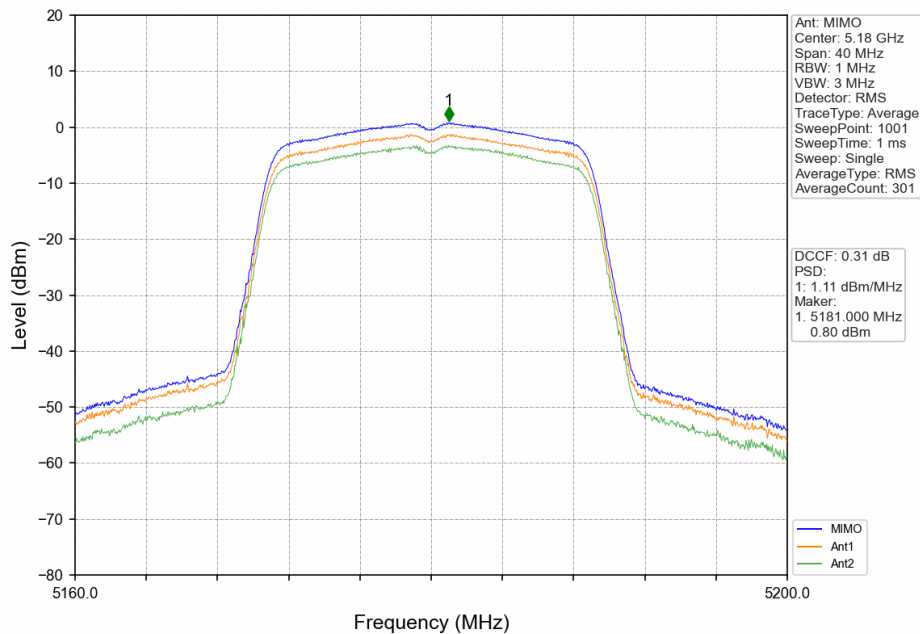


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802.11ac(VHT20)_LCH_5180MHz_Ant2_NTNV

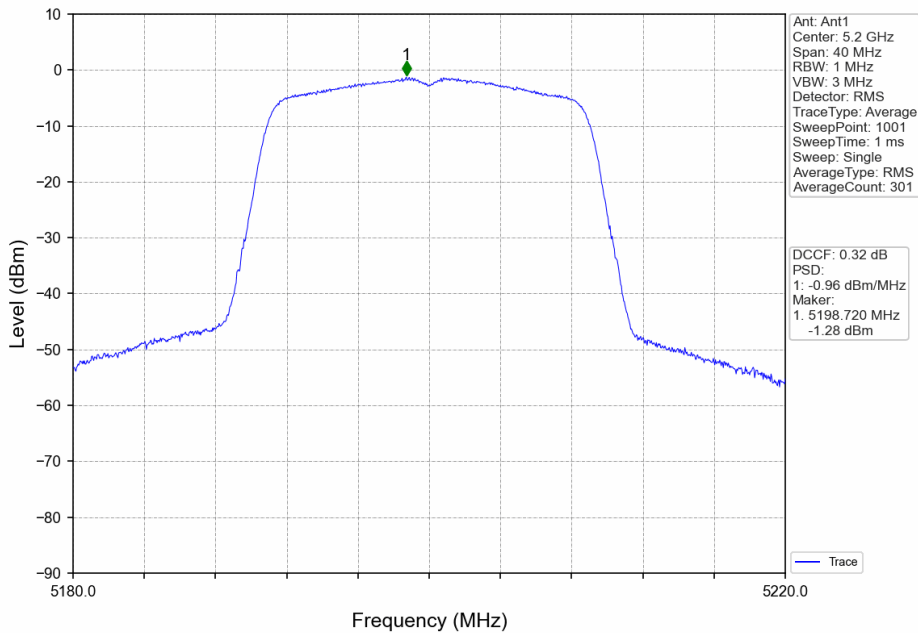


802.11ac(VHT20)_LCH_5180MHz_MIMO_NTNV

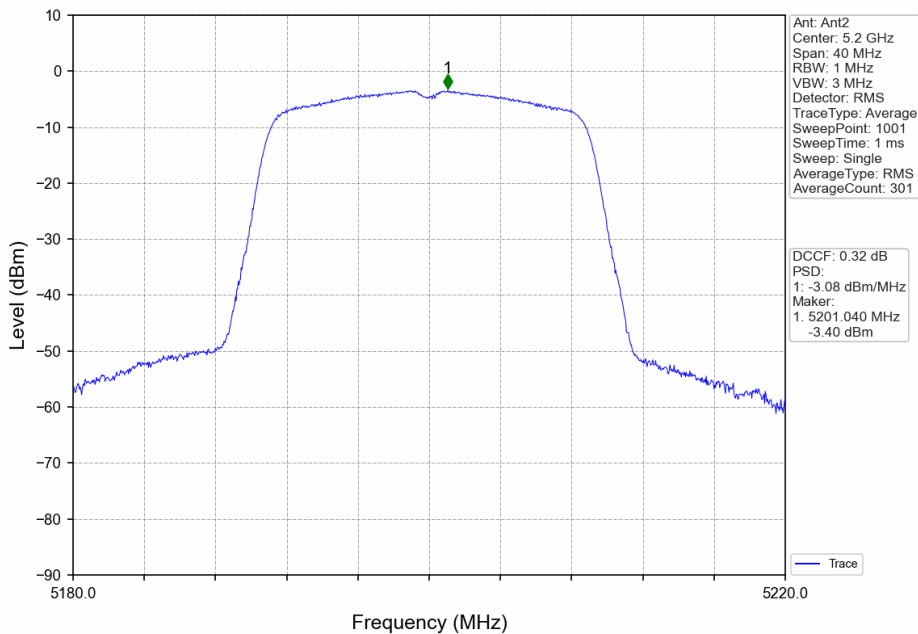


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802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



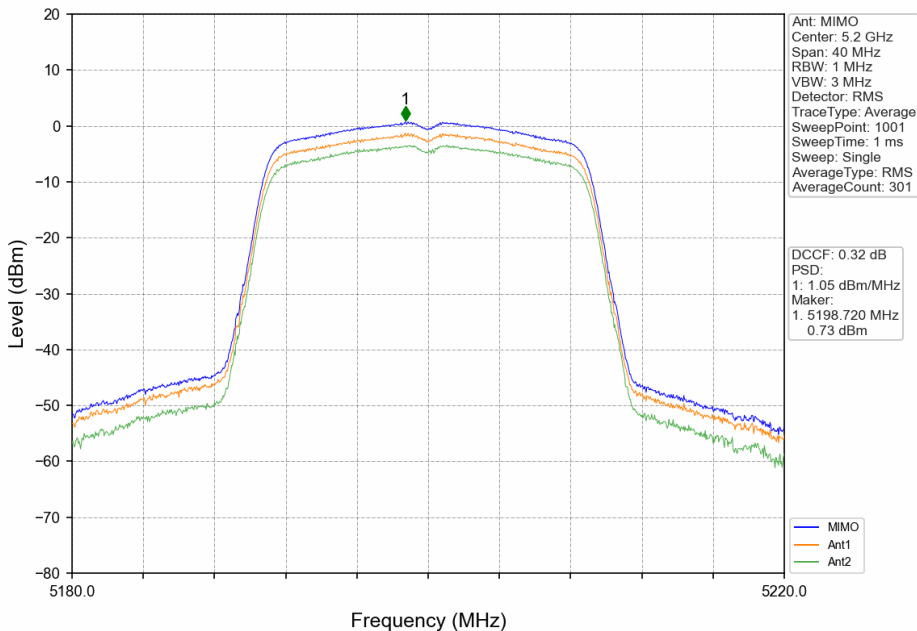
802.11ac(VHT20)_MCH_5200MHz_Ant2_NTNV



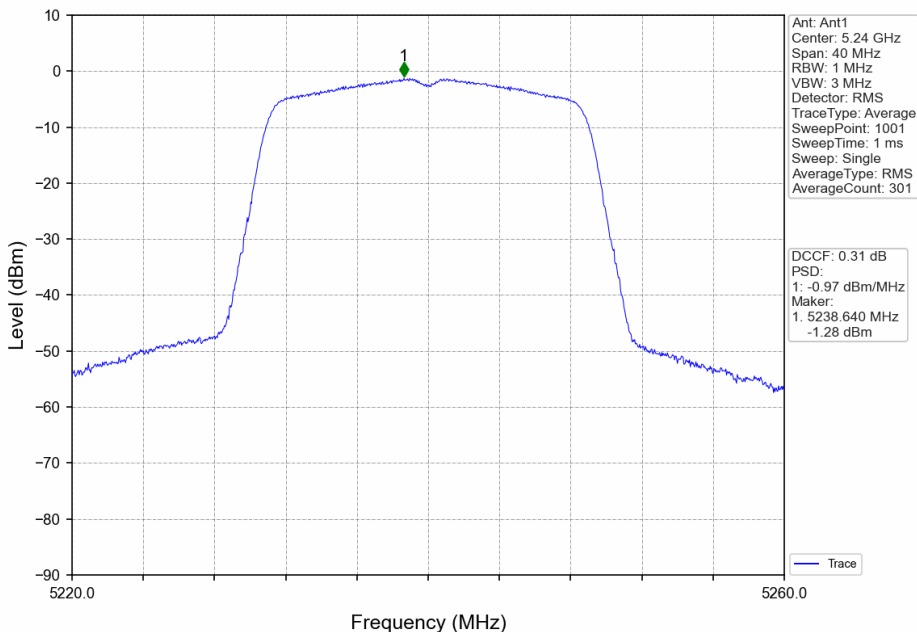
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802.11ac(VHT20)_MCH_5200MHz_MIMO_NTNV

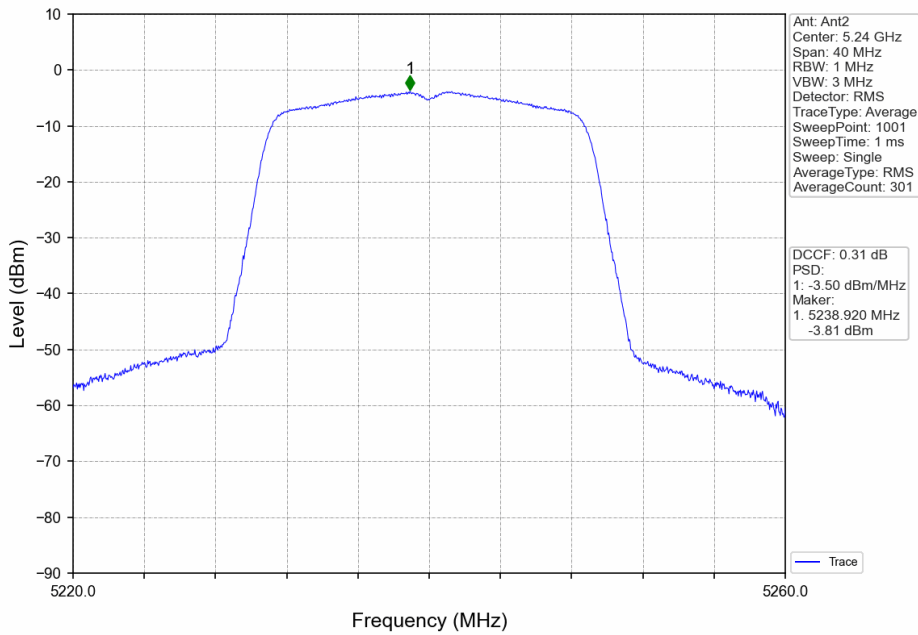


802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV

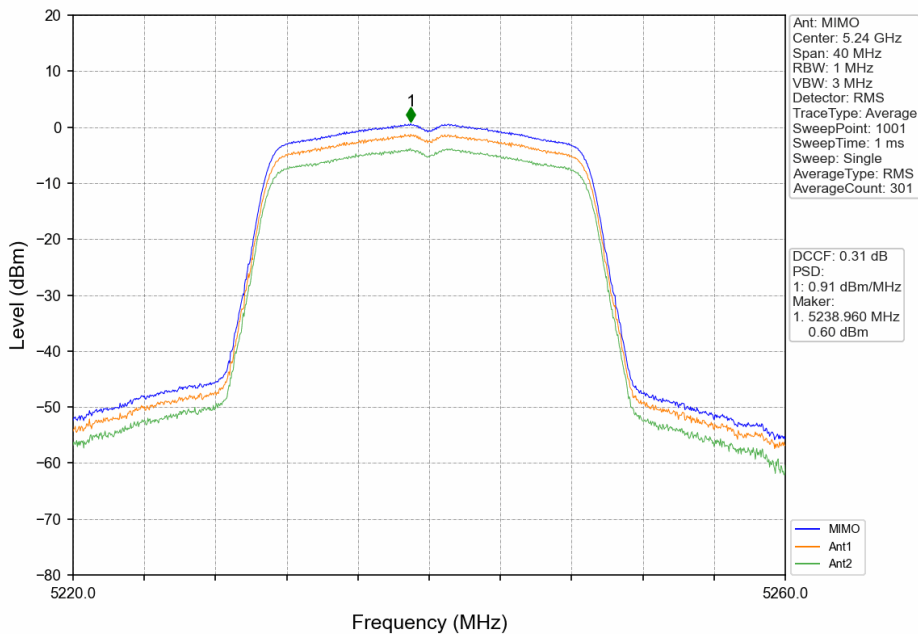


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802.11ac(VHT20)_HCH_5240MHz_Ant2_NTNV



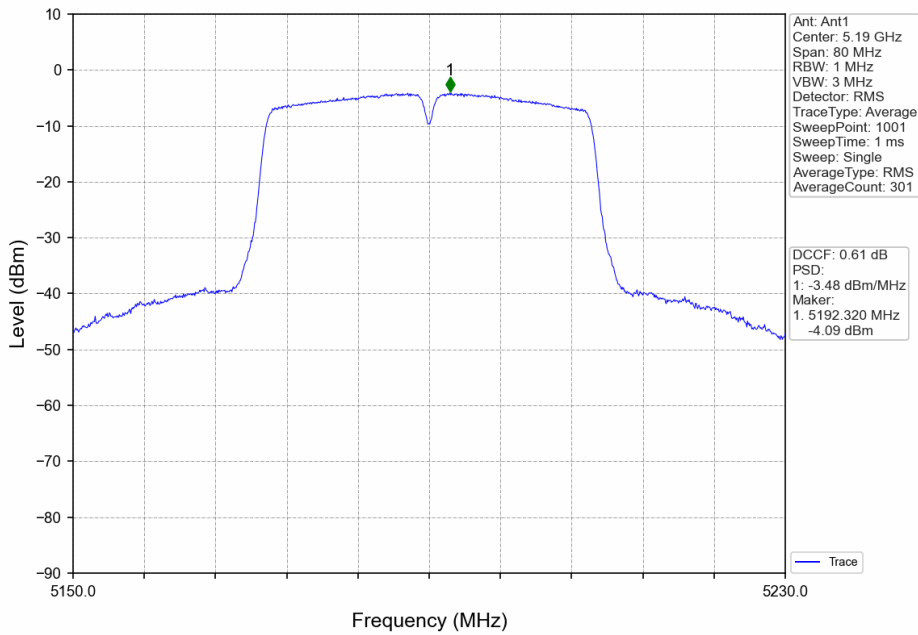
802.11ac(VHT20)_HCH_5240MHz_MIMO_NTNV



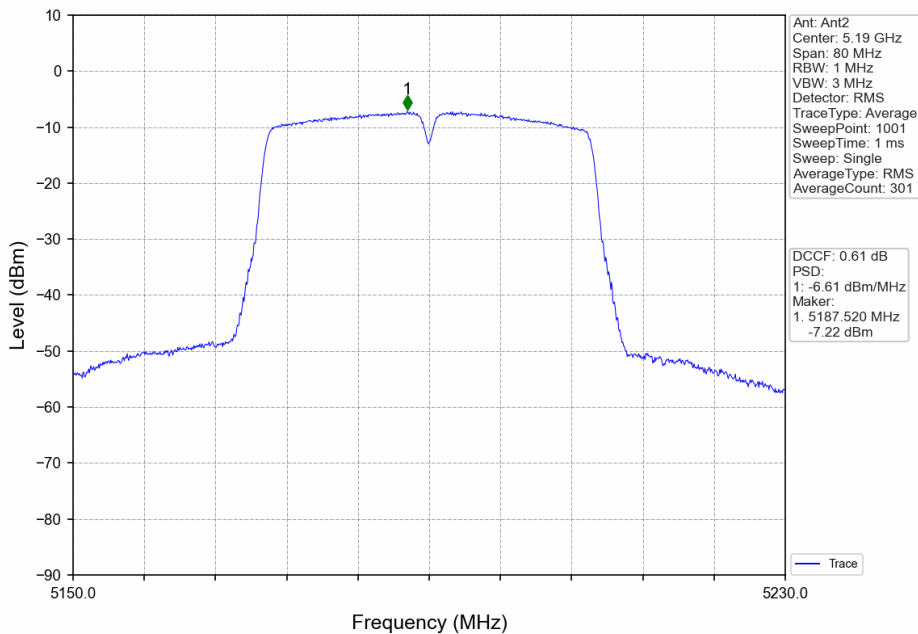
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802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_Ant2_NTNV



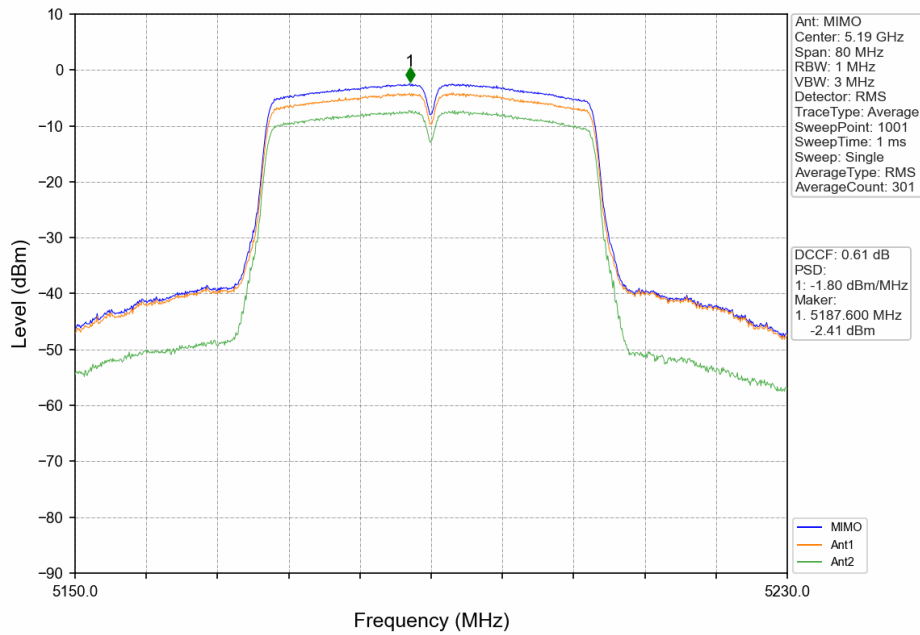
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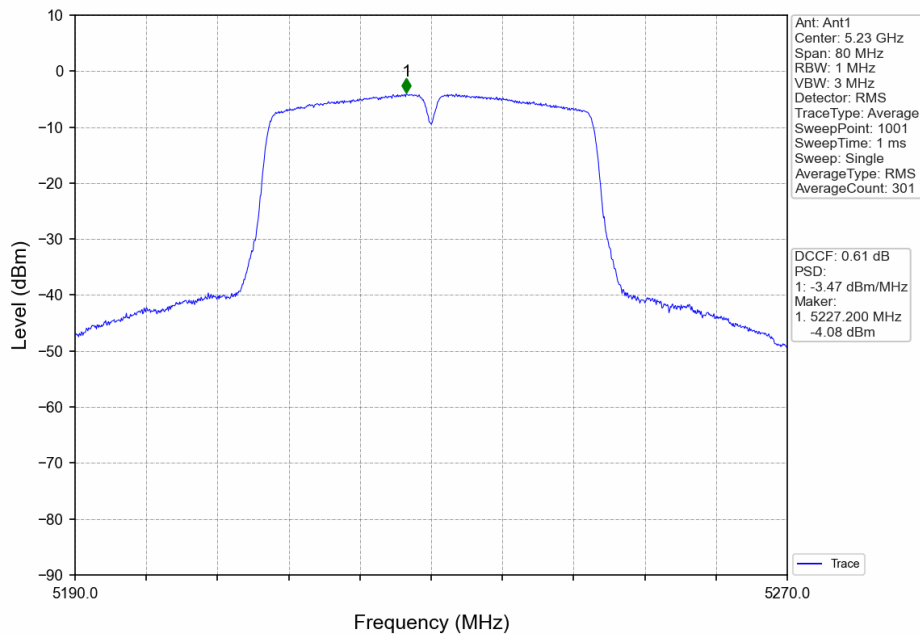


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802.11ac(VHT40)_LCH_5190MHz_MIMO_NTNV

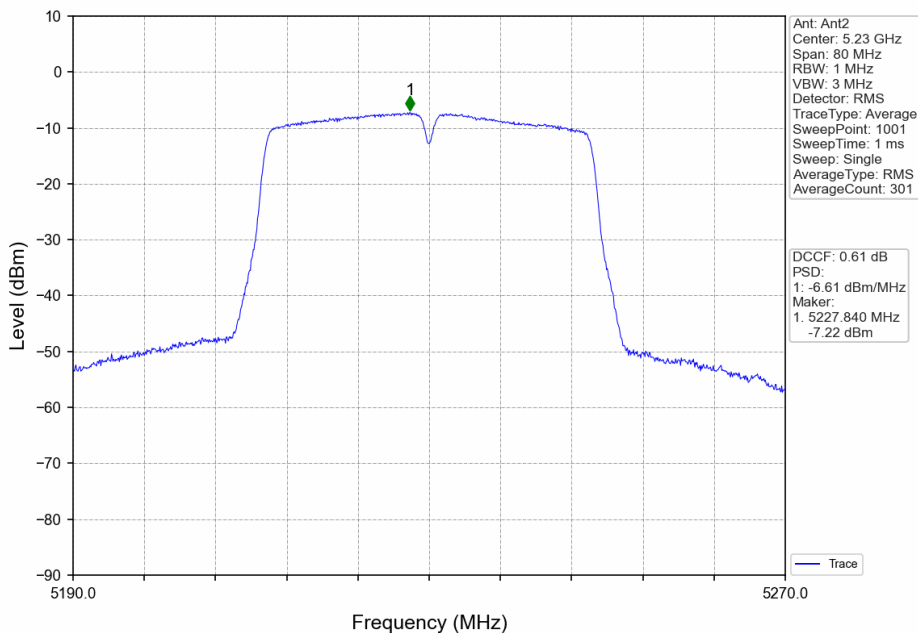


802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV

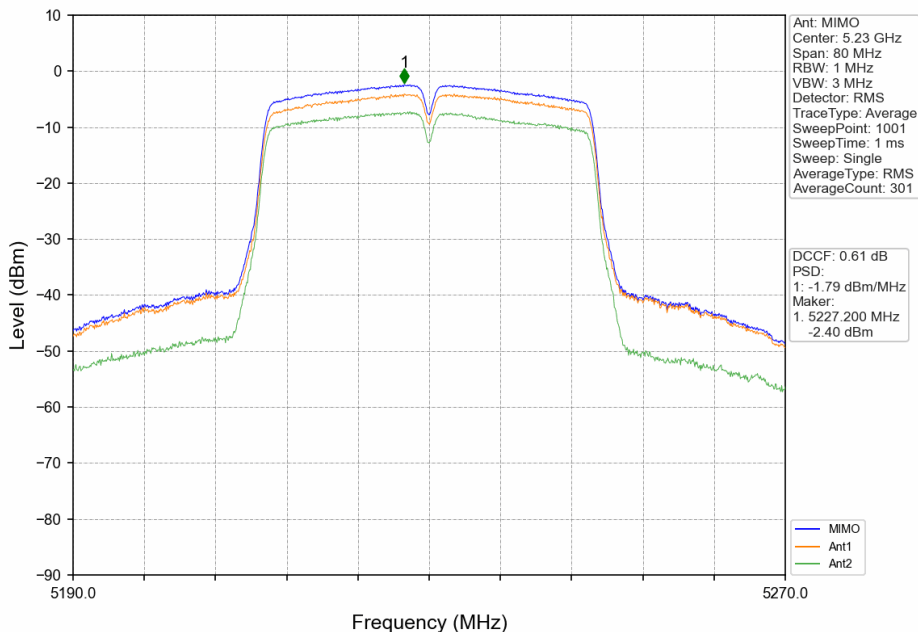


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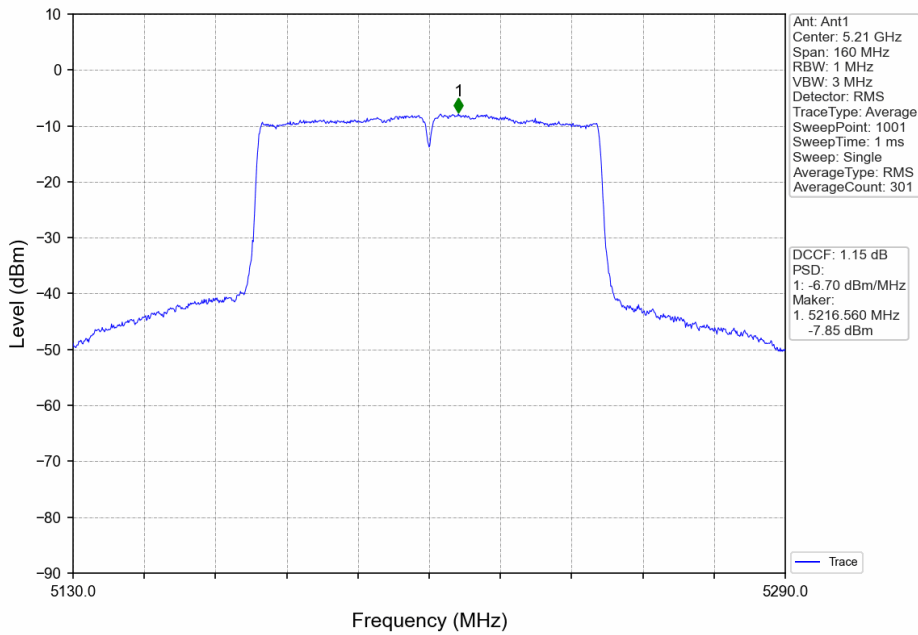


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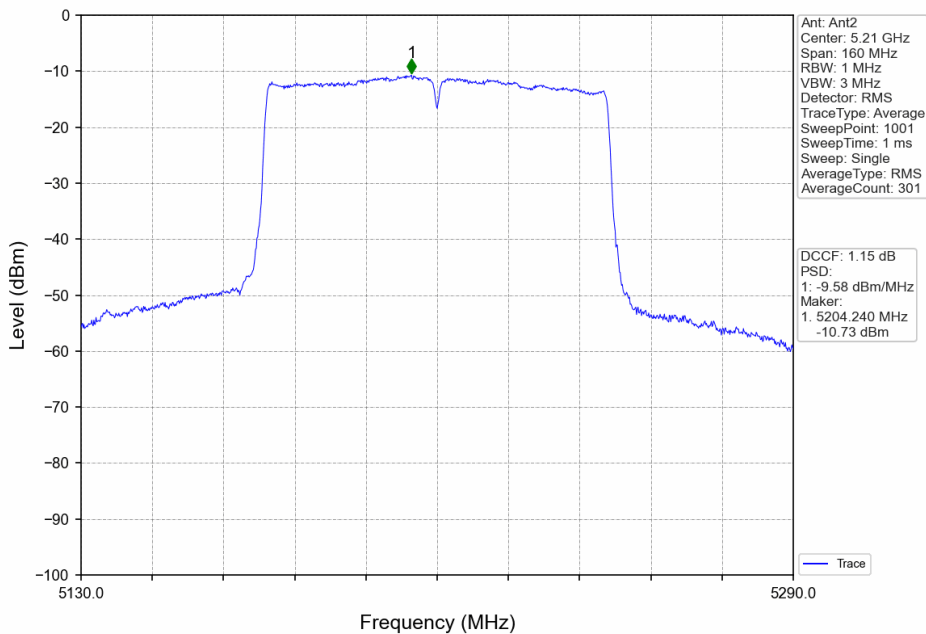


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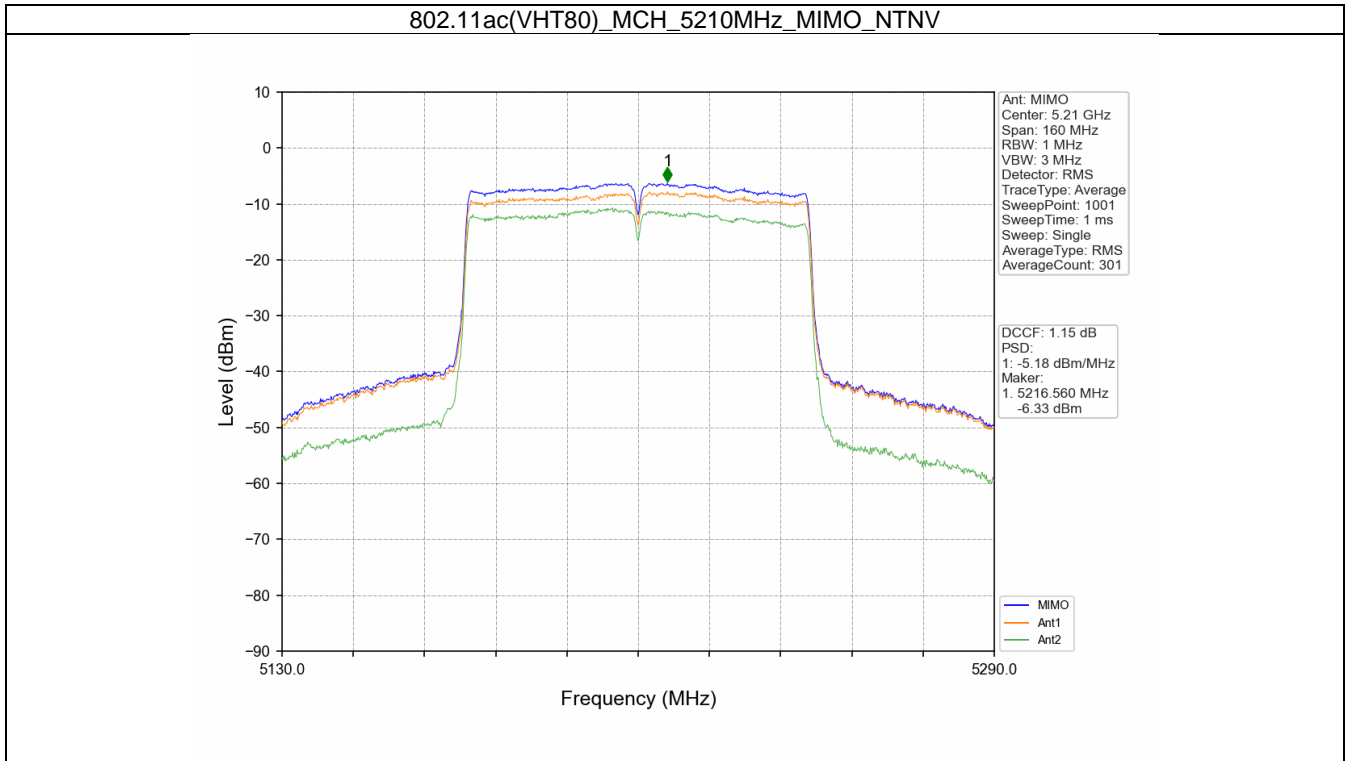
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802.11ac(VHT80)_MCH_5210MHz_Ant2_NTNV



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4.2 PSD-Band3

4.2.1 Test Result

| Mode | TX Type | Frequency (MHz) | Maximum PSD (dBm/500kHz) | | | | Verdict |
|------------------|---------|-----------------|--------------------------|--------|-------|-------|---------|
| | | | Ant1 | Ant2 | MIMO | Limit | |
| 802.11a | SISO | 5745 | -3.25 | -4.42 | / | <=30 | Pass |
| | | 5785 | -3.76 | -5.02 | / | <=30 | Pass |
| | | 5825 | -4.06 | -5.03 | / | <=30 | Pass |
| 802.11n (HT20) | MIMO | 5745 | -4.48 | -5.28 | -2.00 | <=30 | Pass |
| | | 5785 | -5.10 | -5.71 | -2.56 | <=30 | Pass |
| | | 5825 | -5.37 | -6.29 | -2.97 | <=30 | Pass |
| 802.11n (HT40) | MIMO | 5755 | -7.52 | -8.17 | -5.00 | <=30 | Pass |
| | | 5795 | -8.52 | -9.06 | -5.84 | <=30 | Pass |
| 802.11ac (VHT20) | MIMO | 5745 | -4.61 | -5.33 | -2.04 | <=30 | Pass |
| | | 5785 | -4.96 | -5.94 | -2.52 | <=30 | Pass |
| | | 5825 | -5.46 | -6.30 | -2.91 | <=30 | Pass |
| 802.11ac (VHT40) | MIMO | 5755 | -7.82 | -8.56 | -5.18 | <=30 | Pass |
| | | 5795 | -8.03 | -9.05 | -5.64 | <=30 | Pass |
| 802.11ac (VHT80) | MIMO | 5775 | -10.88 | -11.91 | -8.54 | <=30 | Pass |

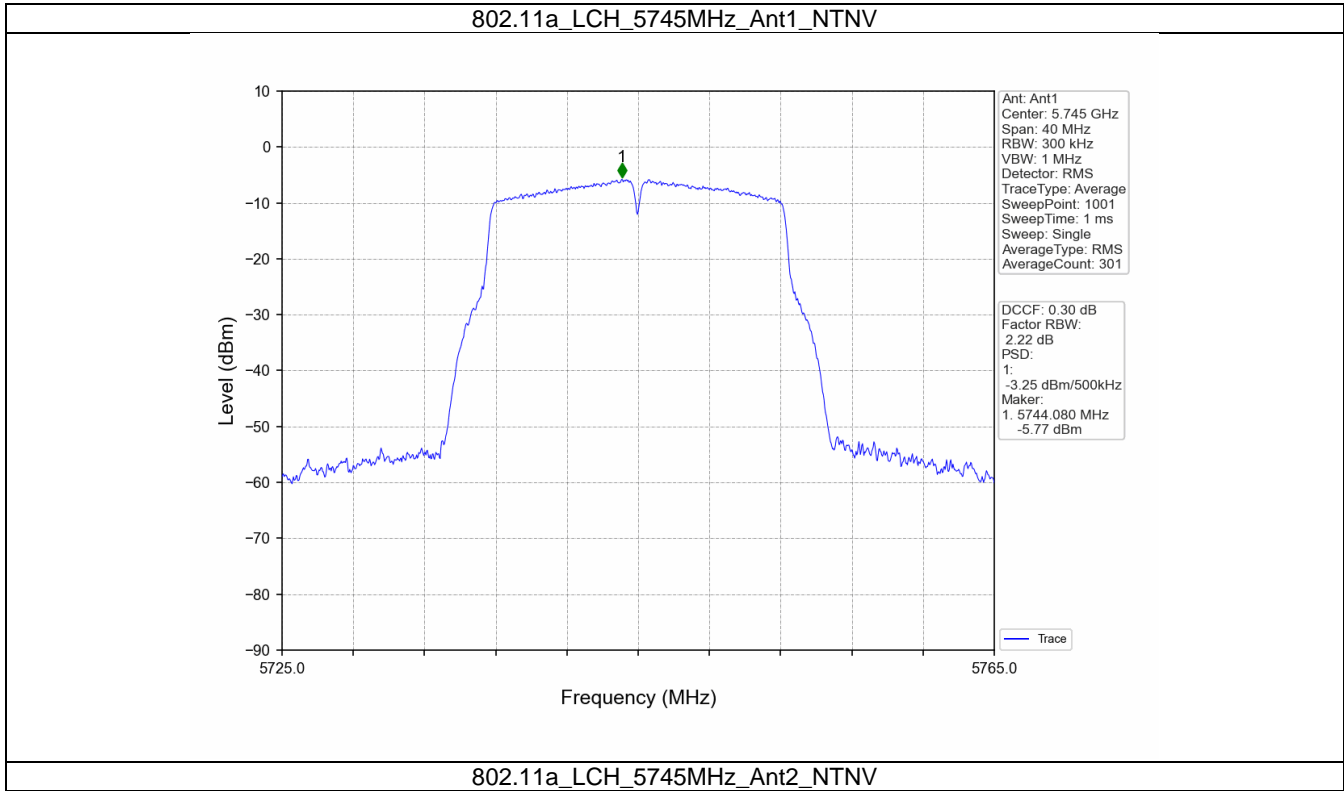
Note1: Antenna Gain: Ant1: 2.30dBi; Ant2: 0.78dBi;



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4.2.2 Test Graph

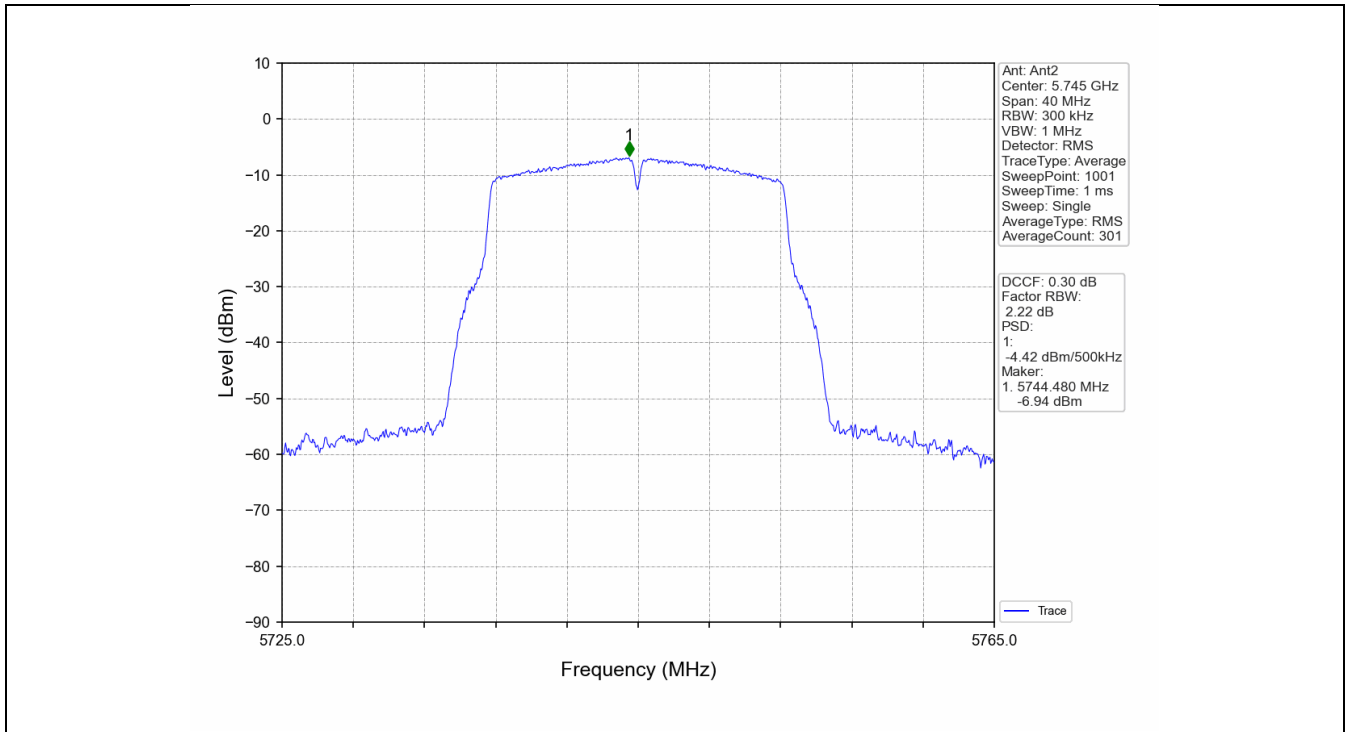


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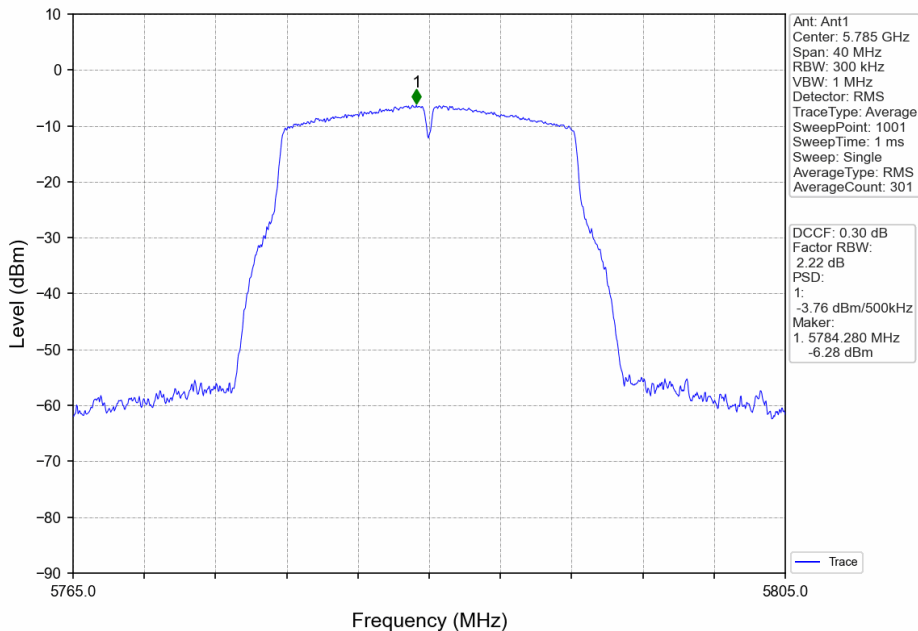
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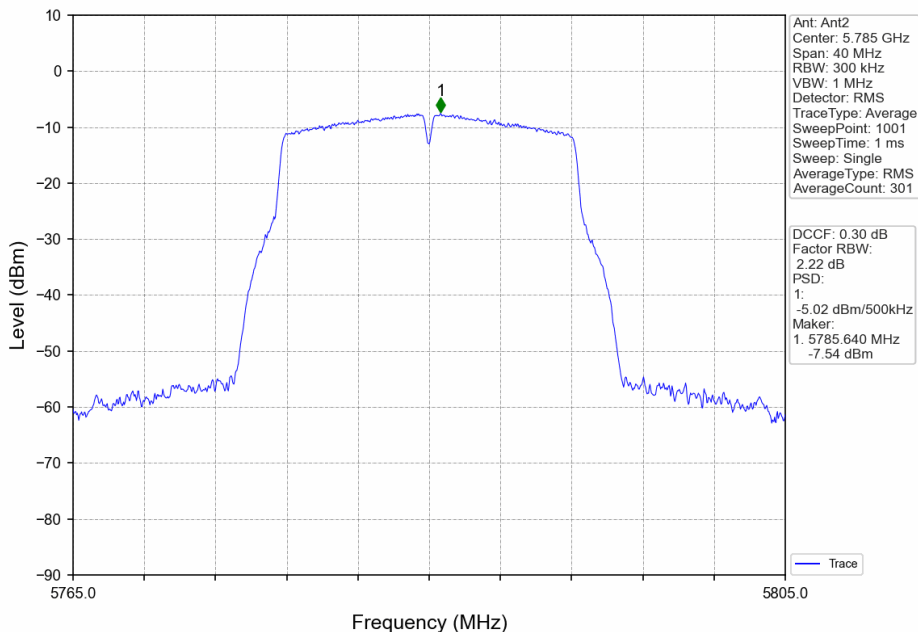
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802.11a_MCH_5785MHz_Ant1_NTNV



802.11a_MCH_5785MHz_Ant2_NTNV



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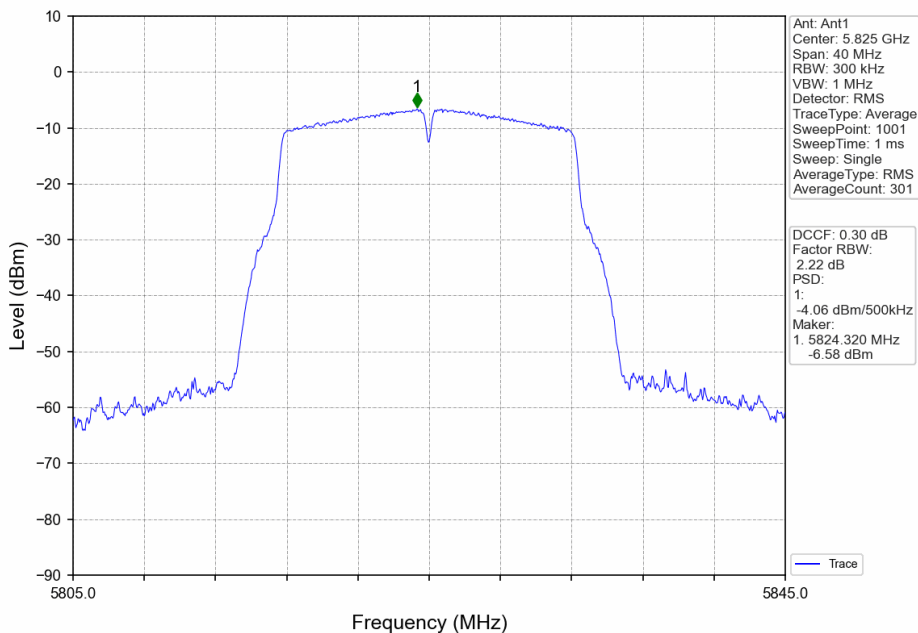
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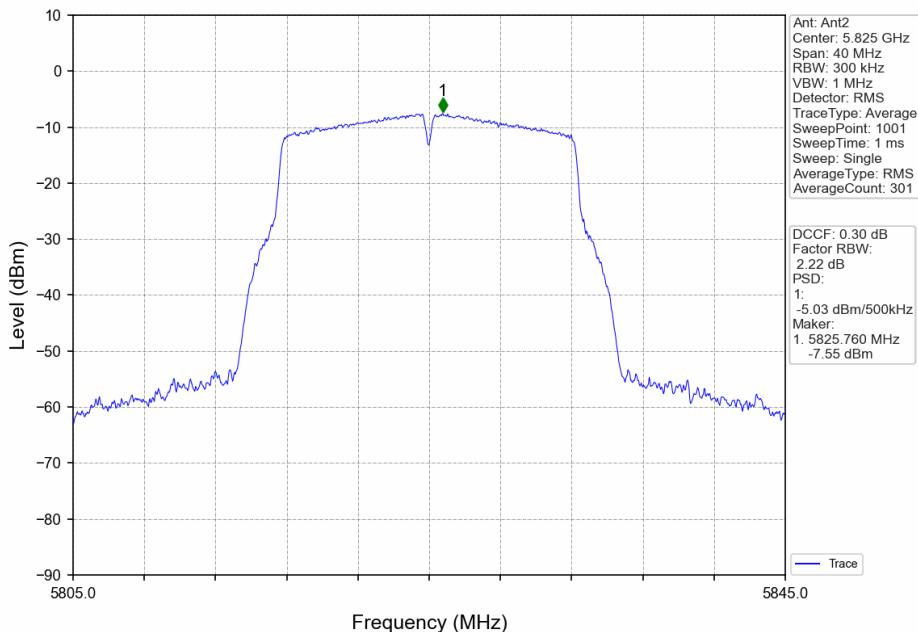


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802.11a_HCH_5825MHz_Ant1_NTNV



802.11a_HCH_5825MHz_Ant2_NTNV



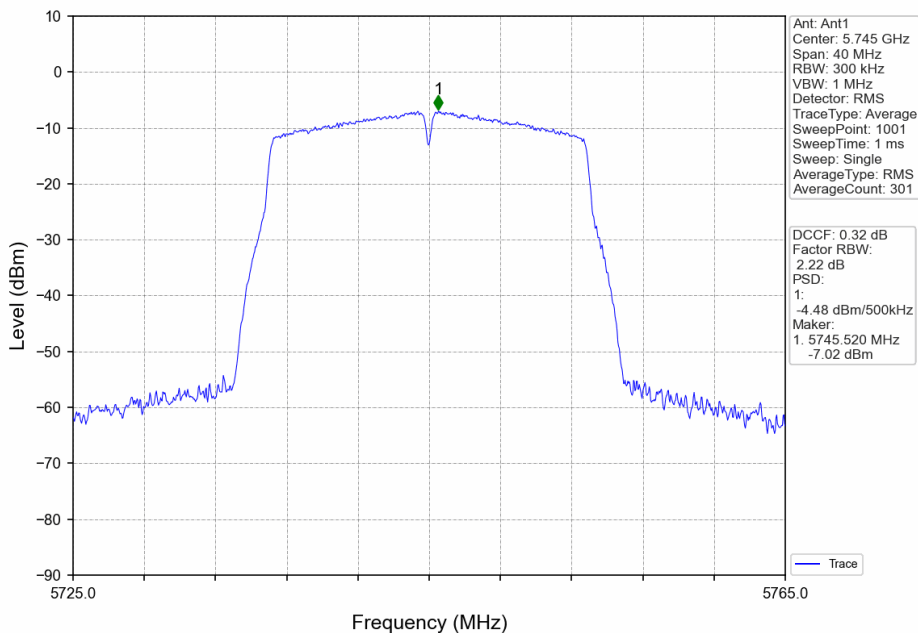
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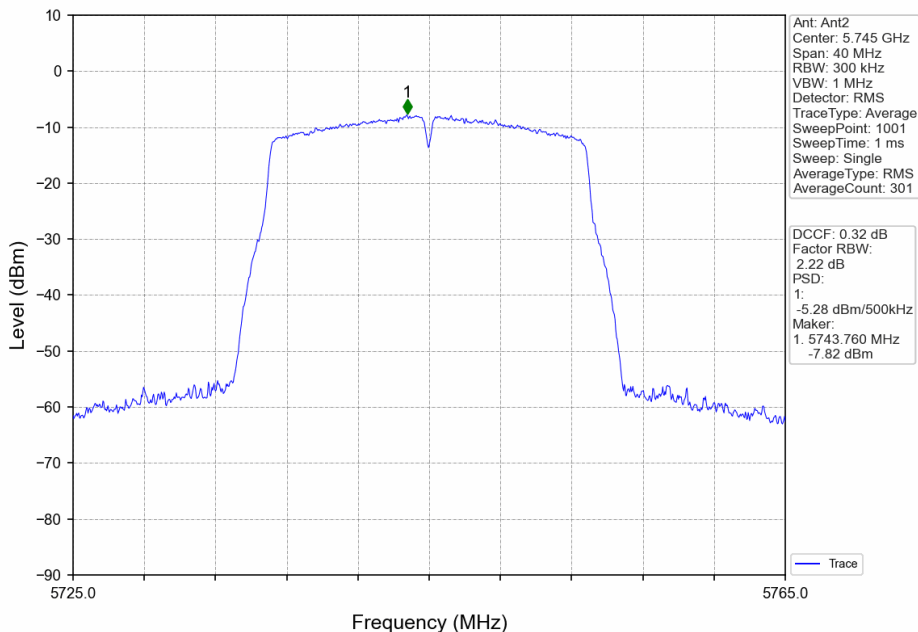
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802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



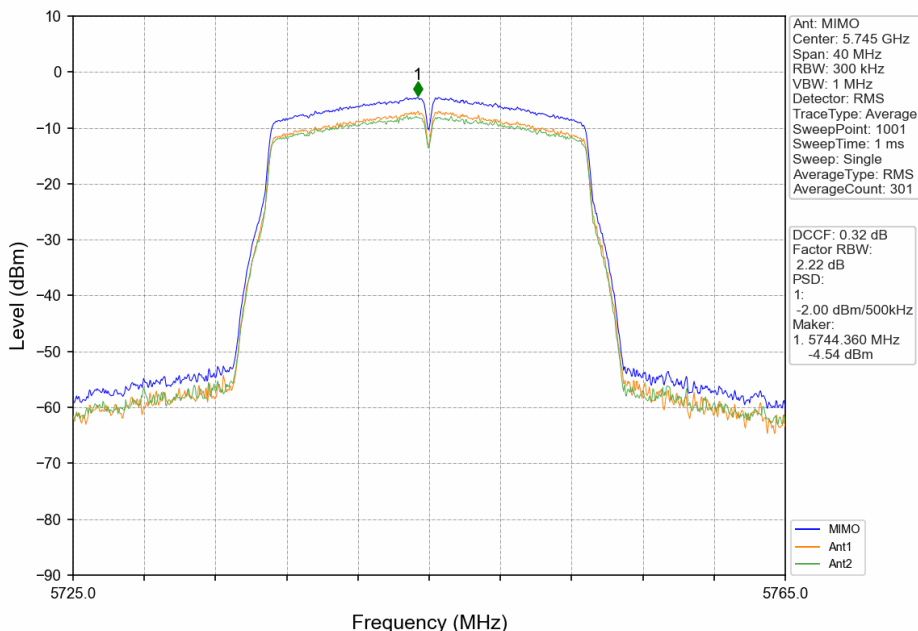
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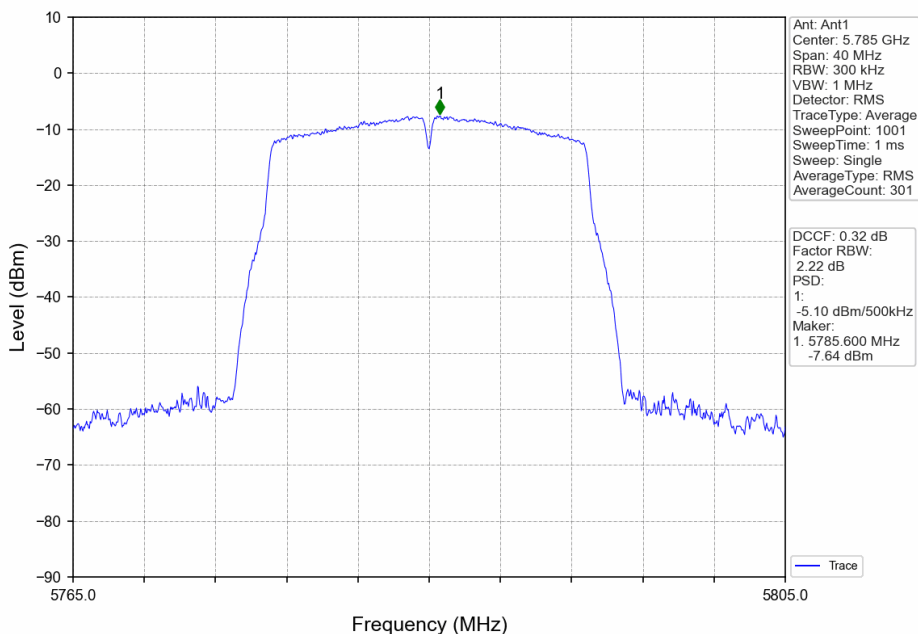
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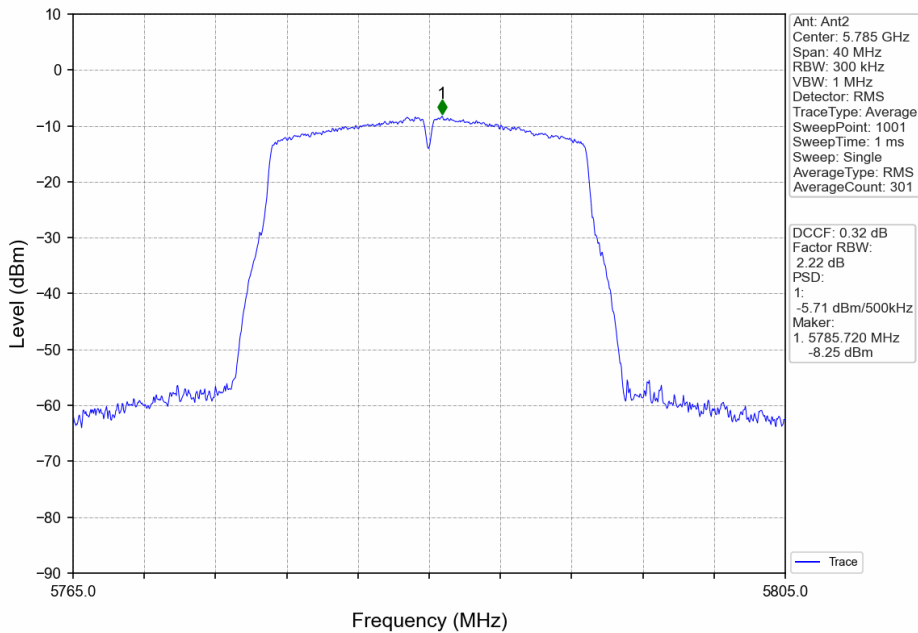


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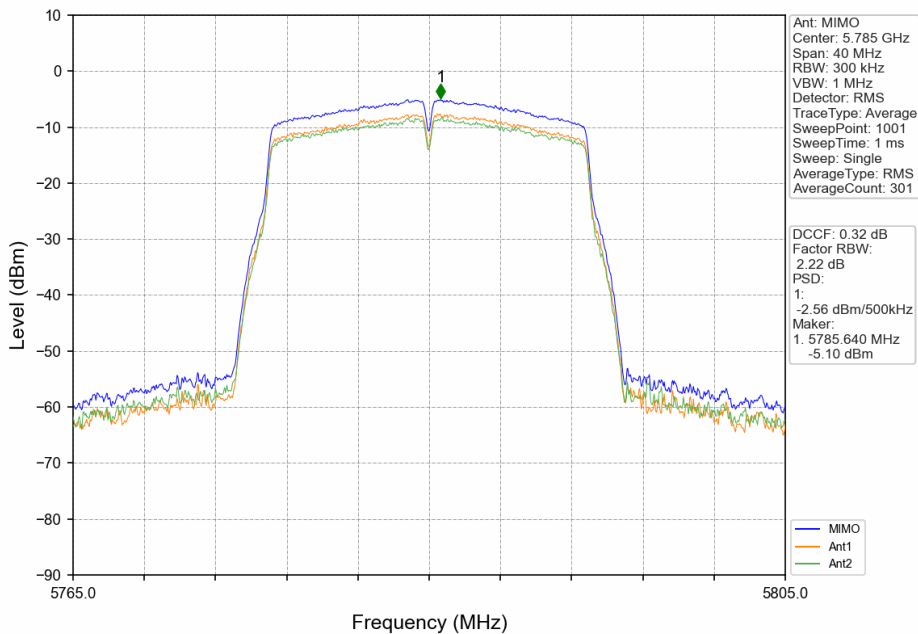


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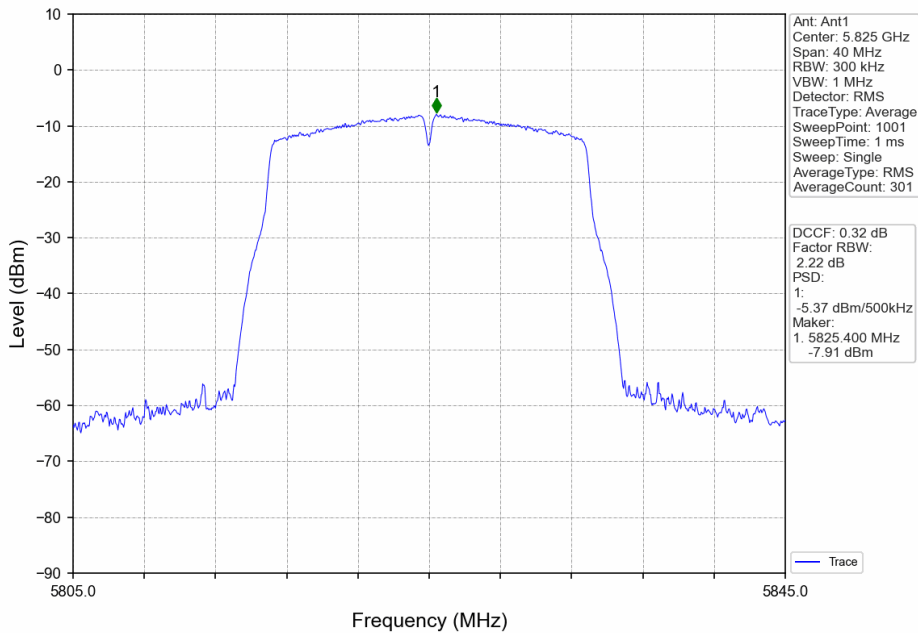


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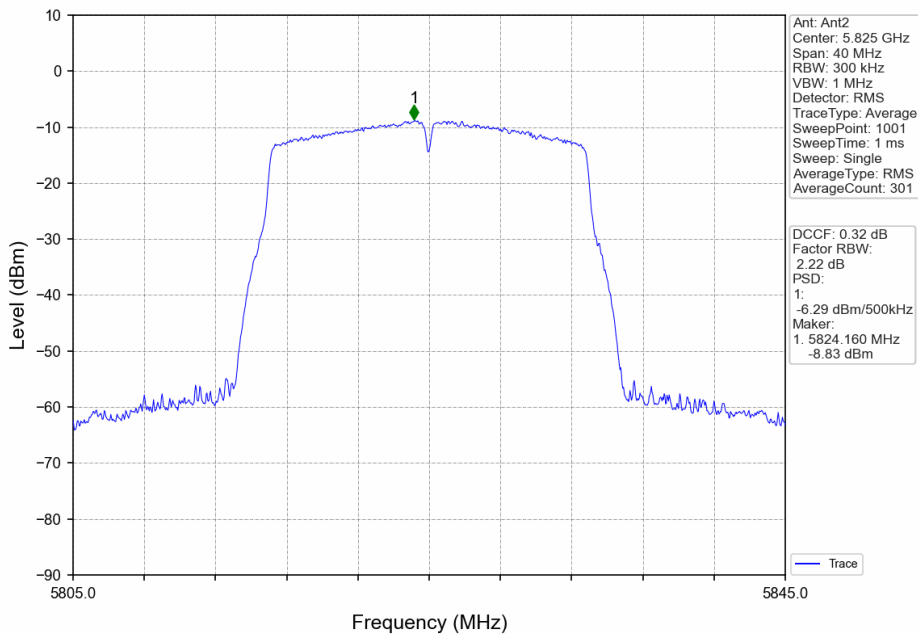


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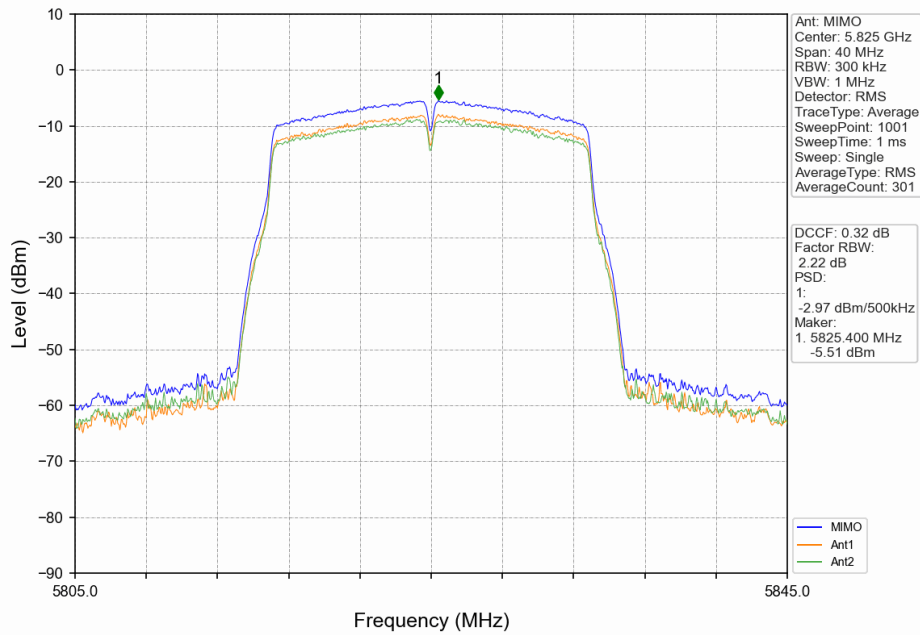
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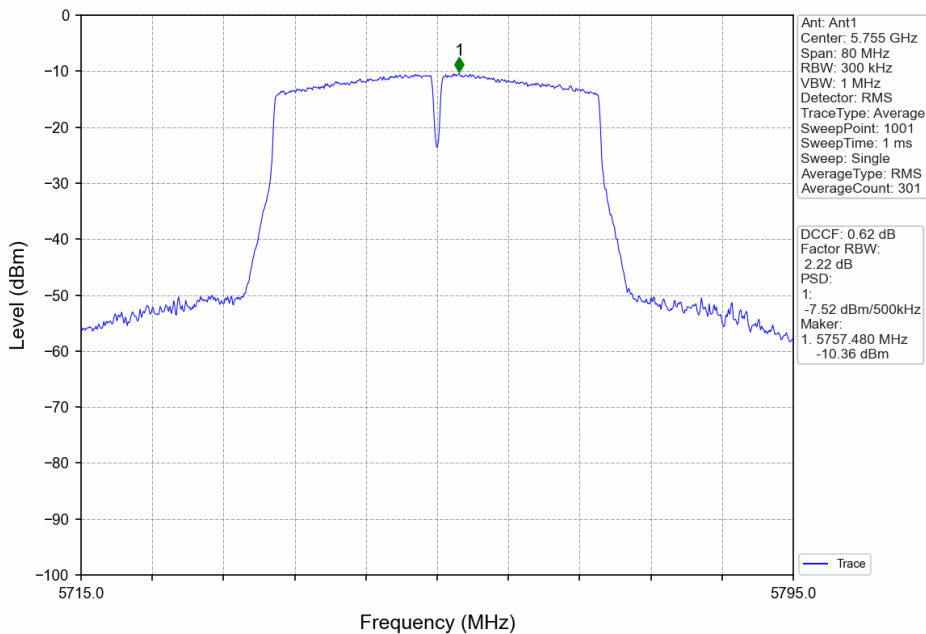


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802.11n(HT40)_LCH_5755MHz_Ant1_NTNV



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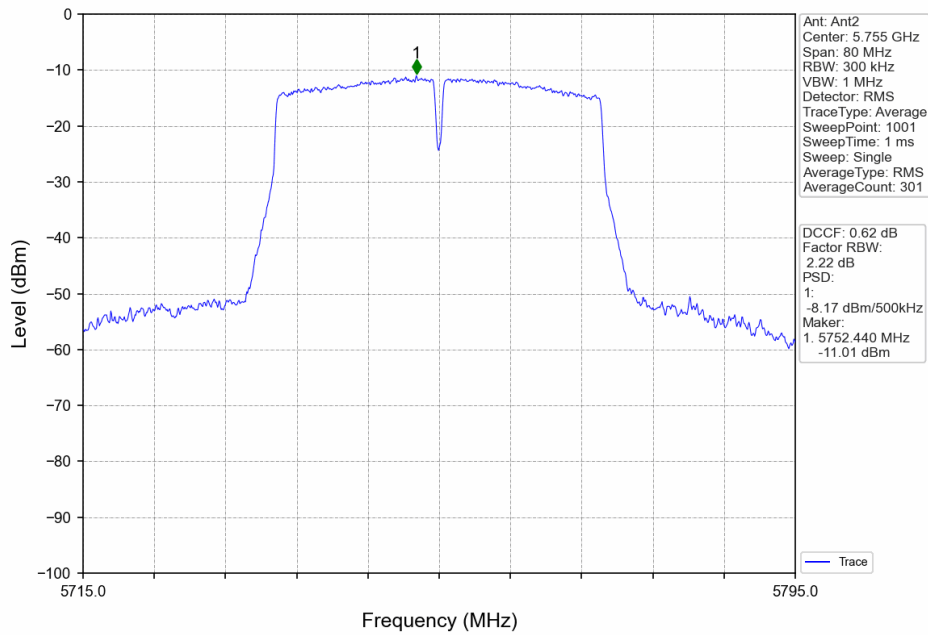
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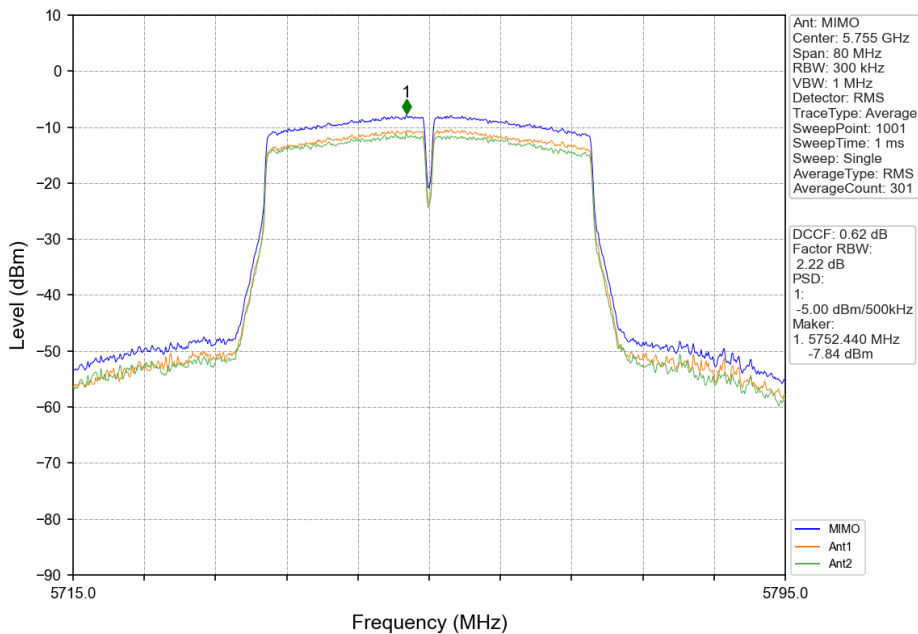


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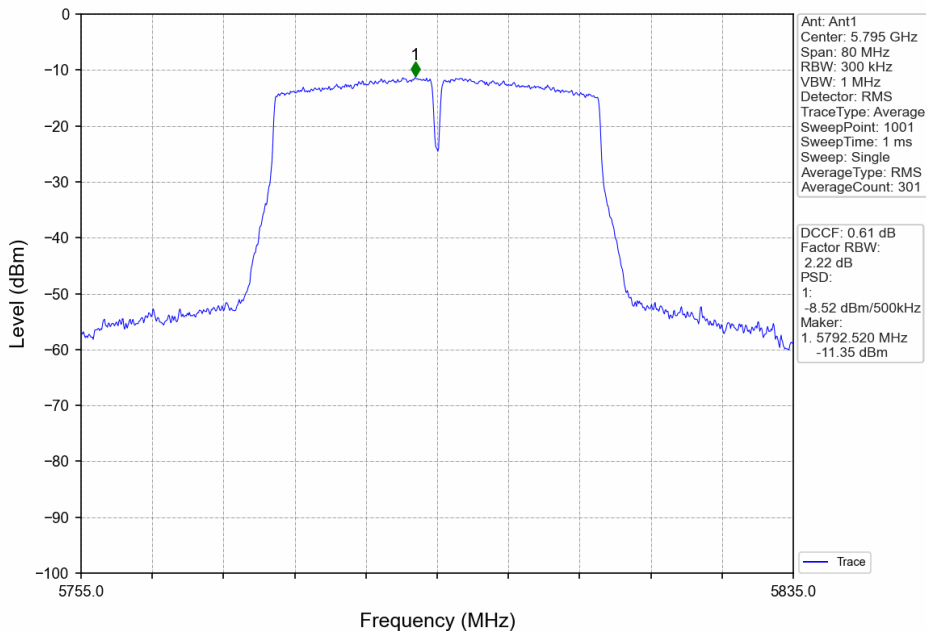


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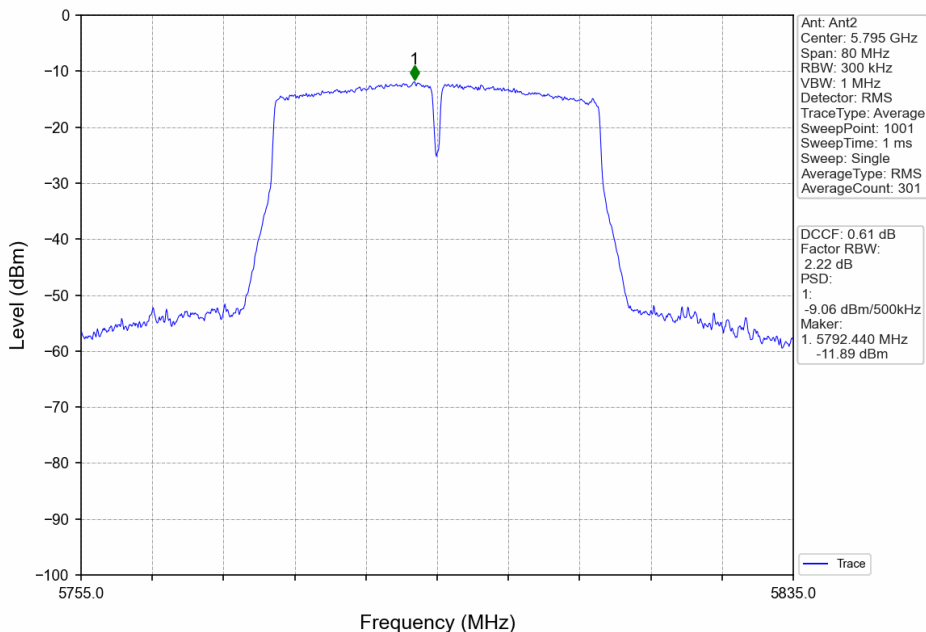


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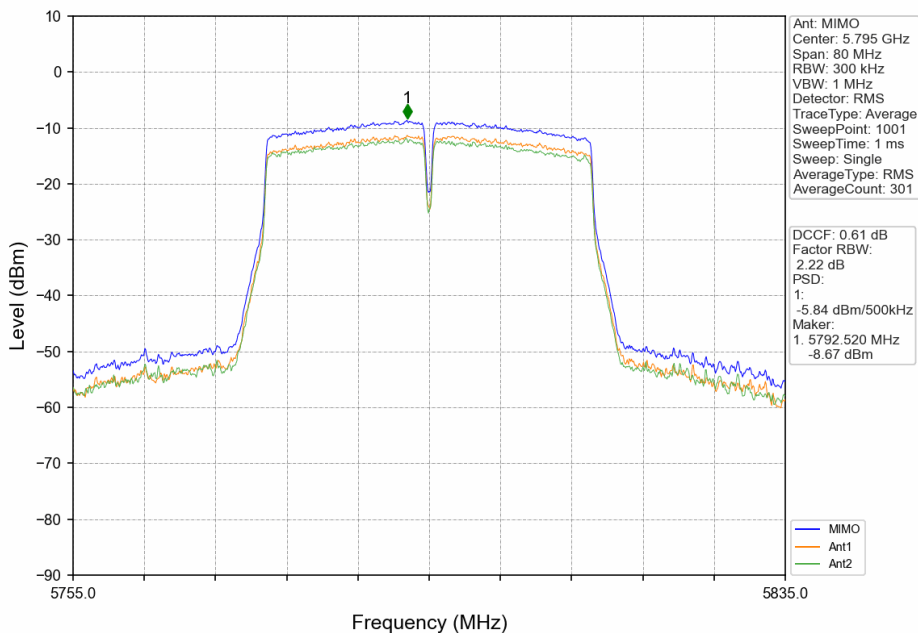


802.11n(HT40)_HCH_5795MHz_Ant2_NTNV

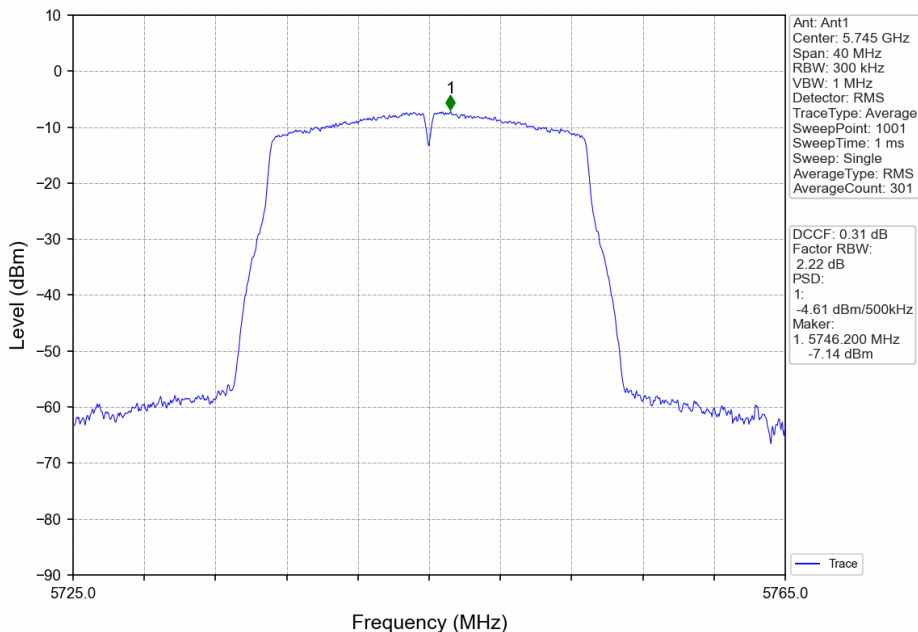


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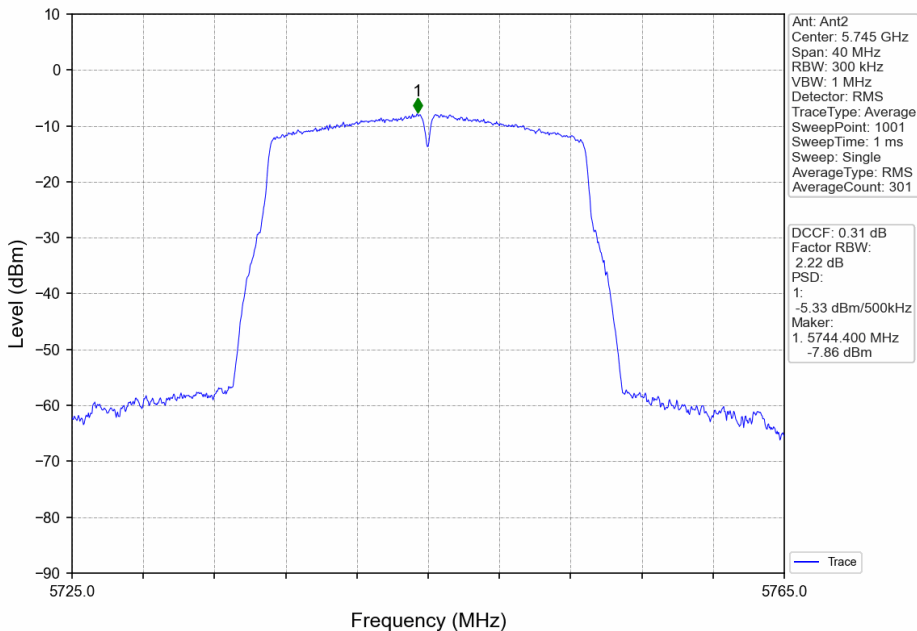


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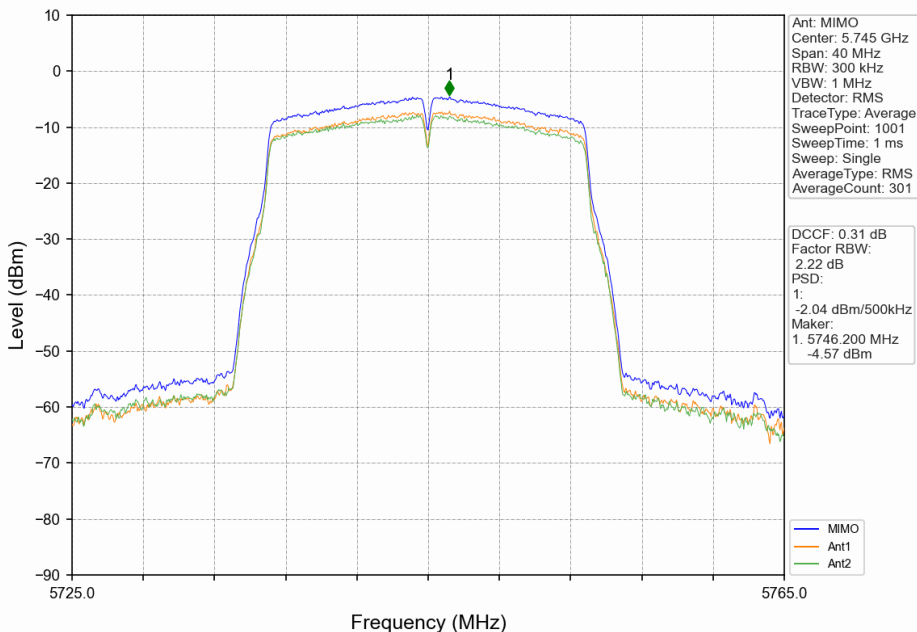


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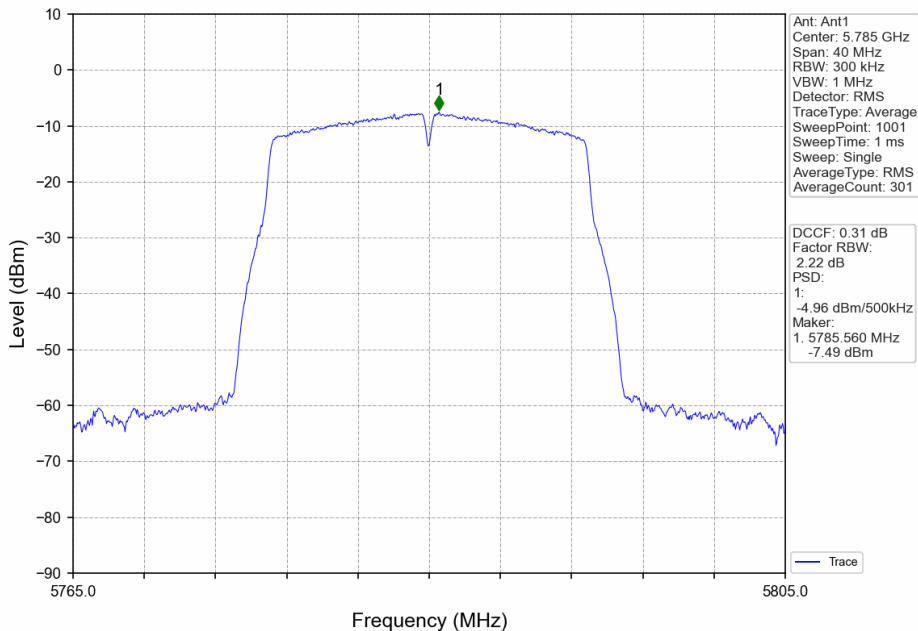


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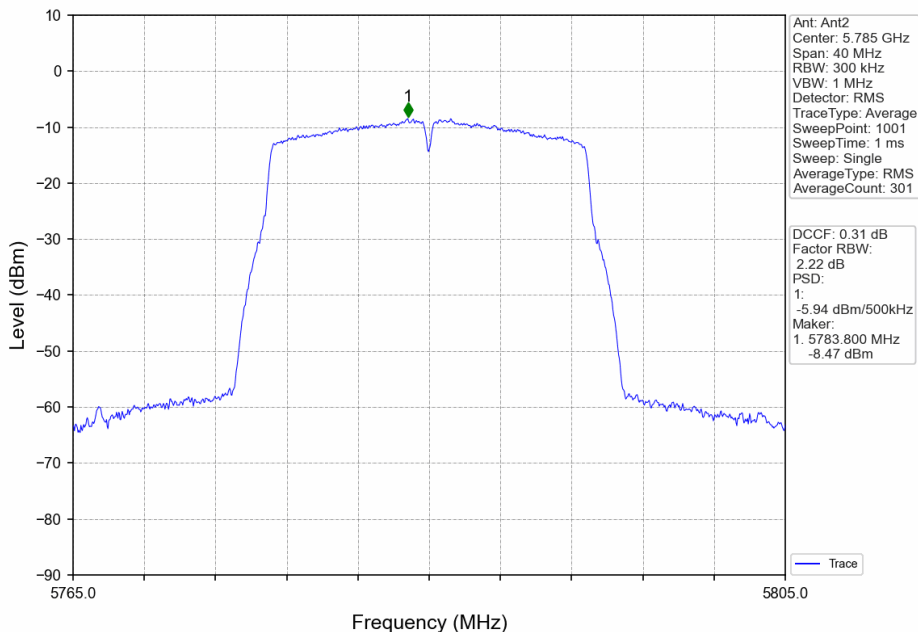


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802.11ac(VHT20)_MCH_5785MHz_Ant1_NTNV



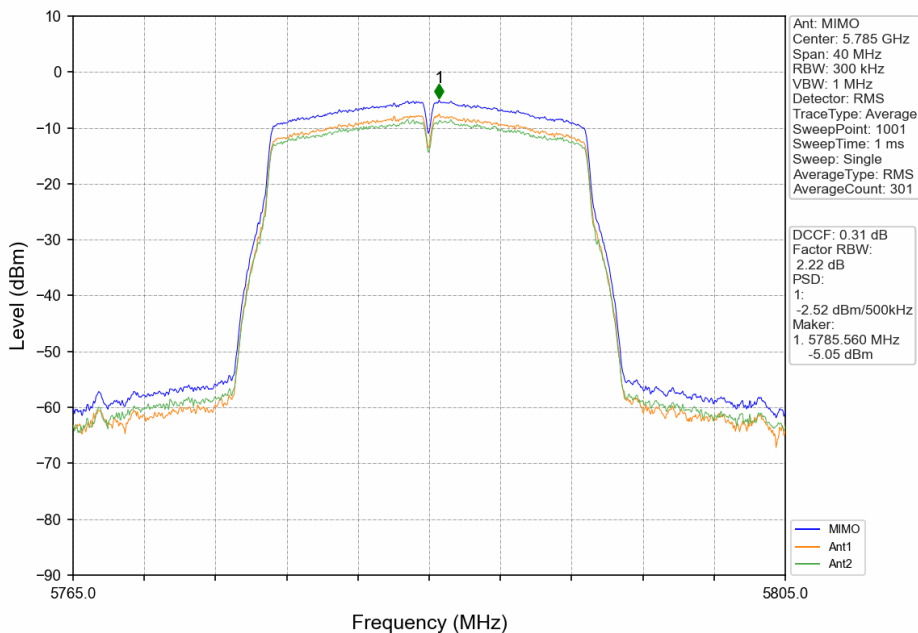
802.11ac(VHT20)_MCH_5785MHz_Ant2_NTNV



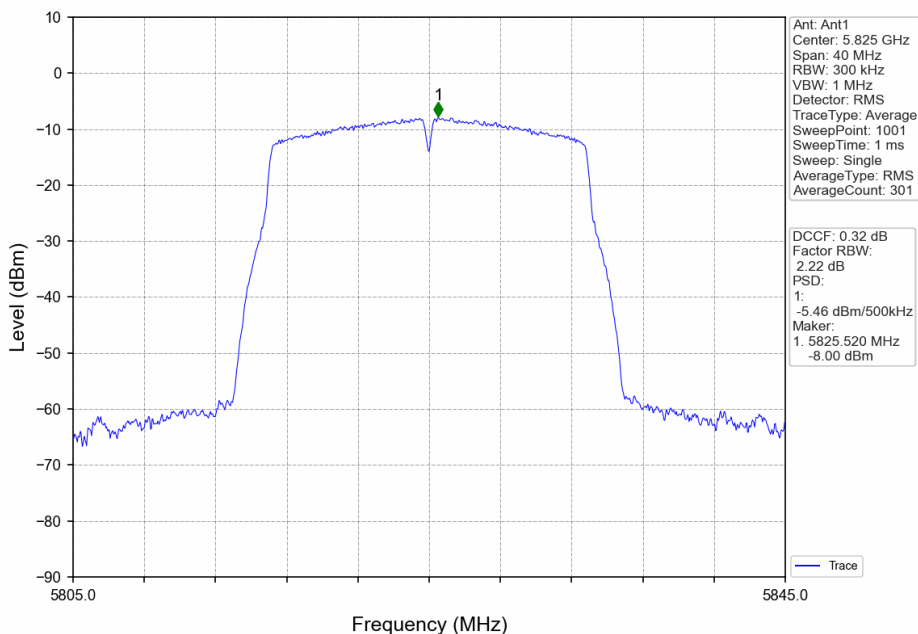
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802.11ac(VHT20)_MCH_5785MHz_MIMO_NTNV



802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



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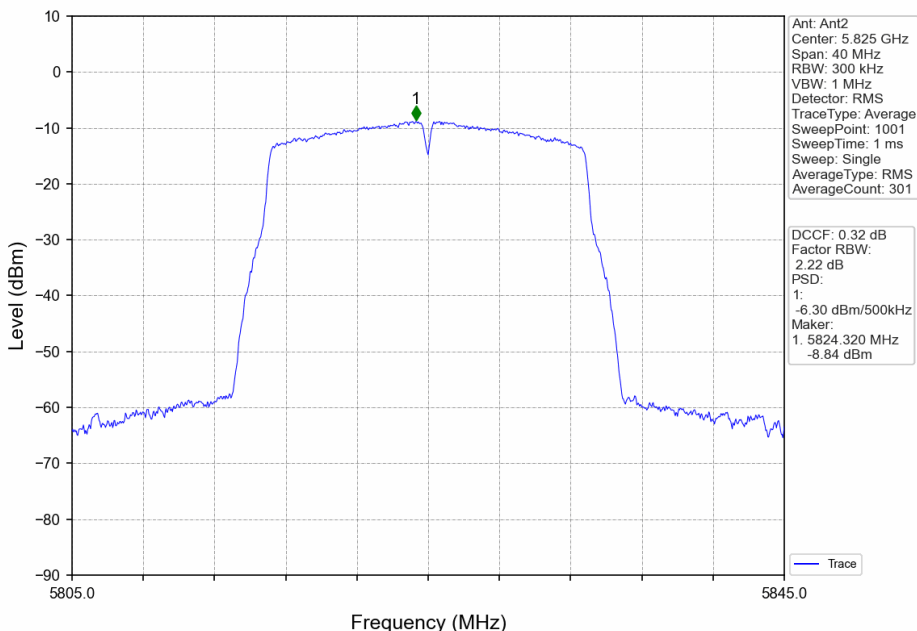
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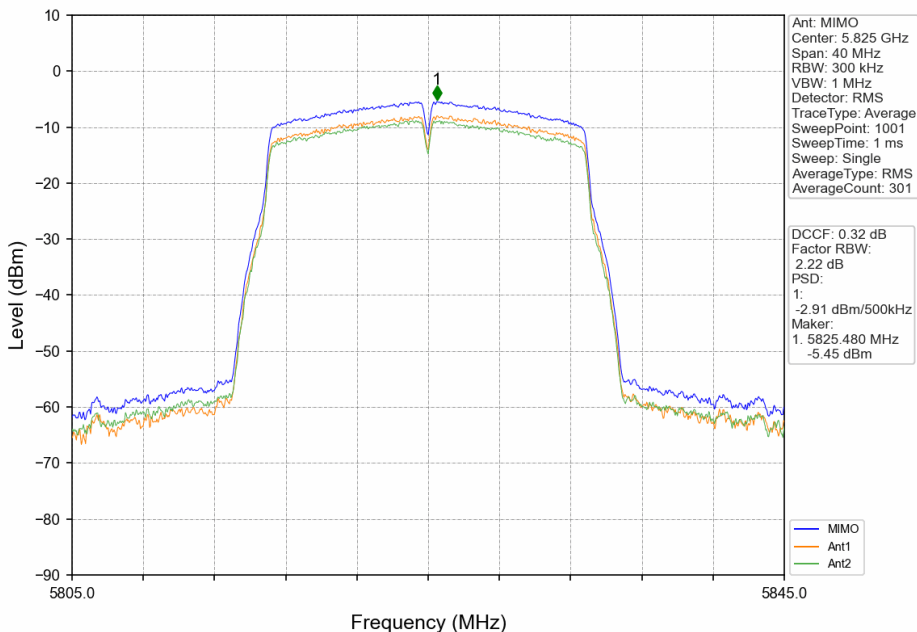


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802.11ac(VHT20)_HCH_5825MHz_Ant2_NTNV



802.11ac(VHT20)_HCH_5825MHz_MIMO_NTNV



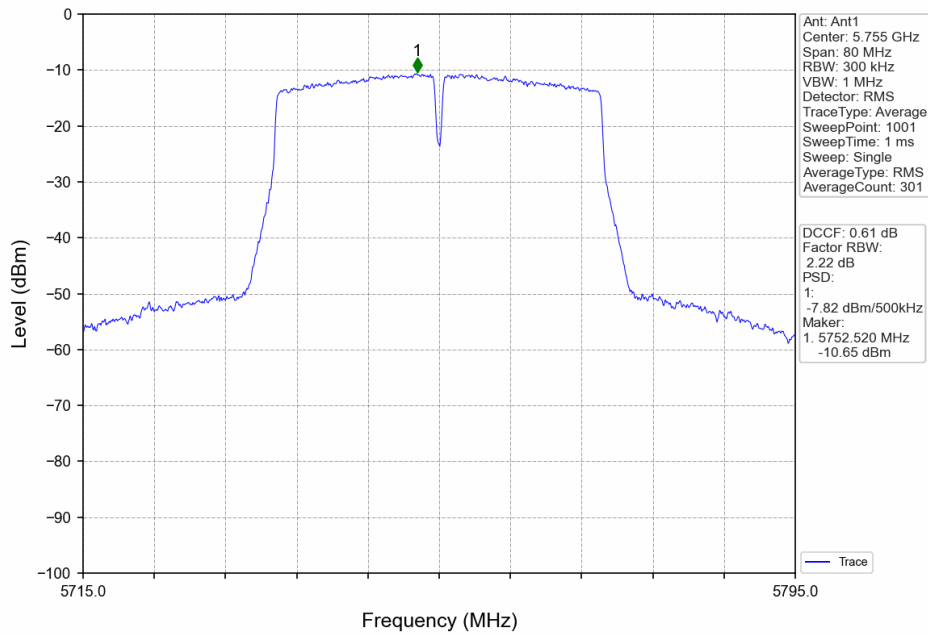
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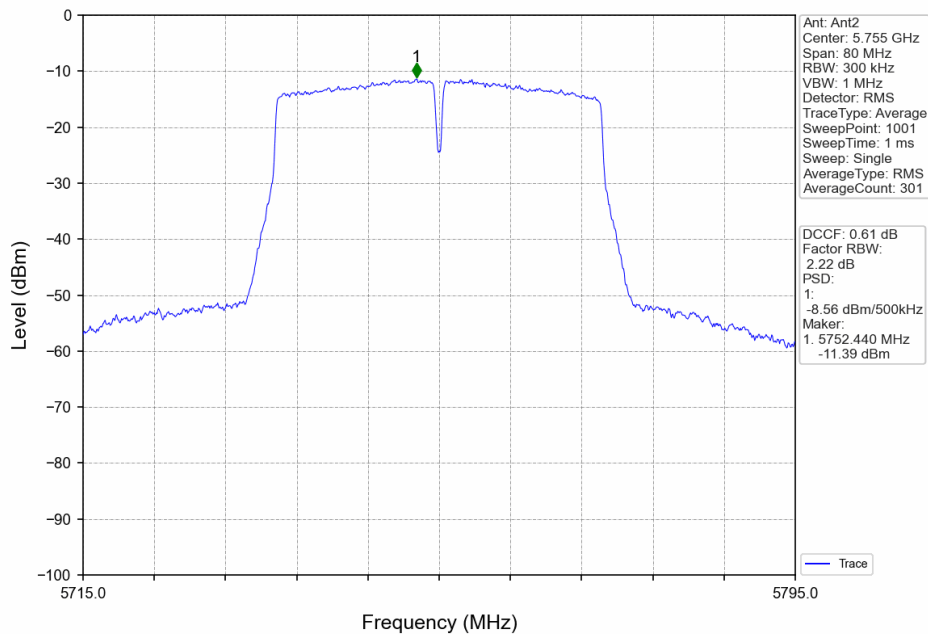
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802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV

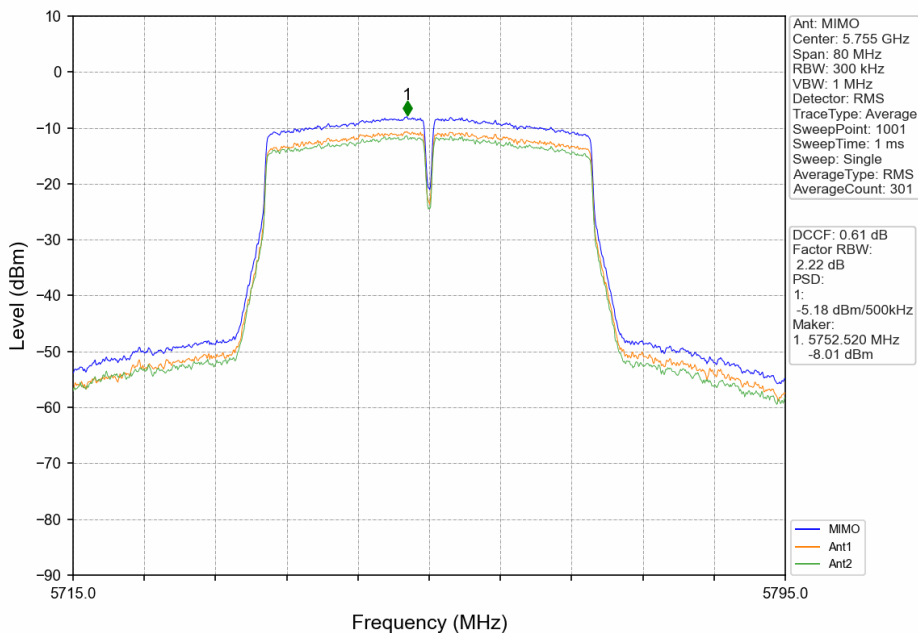


802.11ac(VHT40)_LCH_5755MHz_Ant2_NTNV

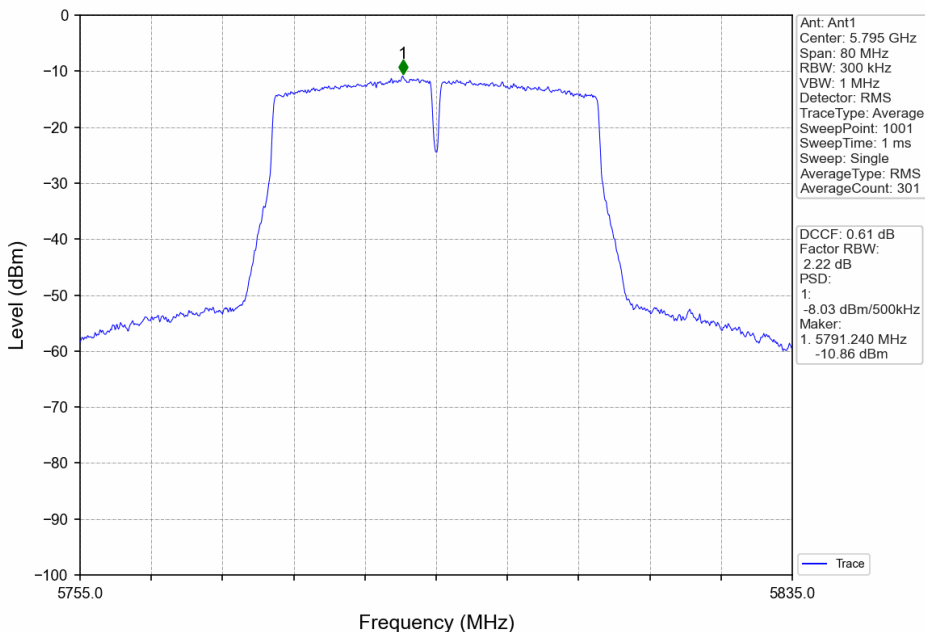


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802.11ac(VHT40)_LCH_5755MHz_MIMO_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



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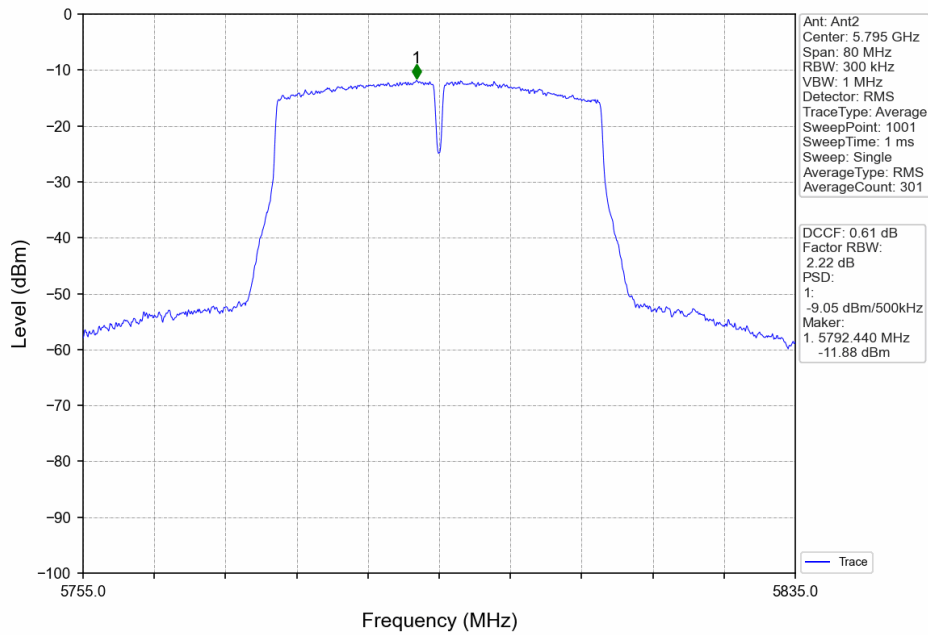
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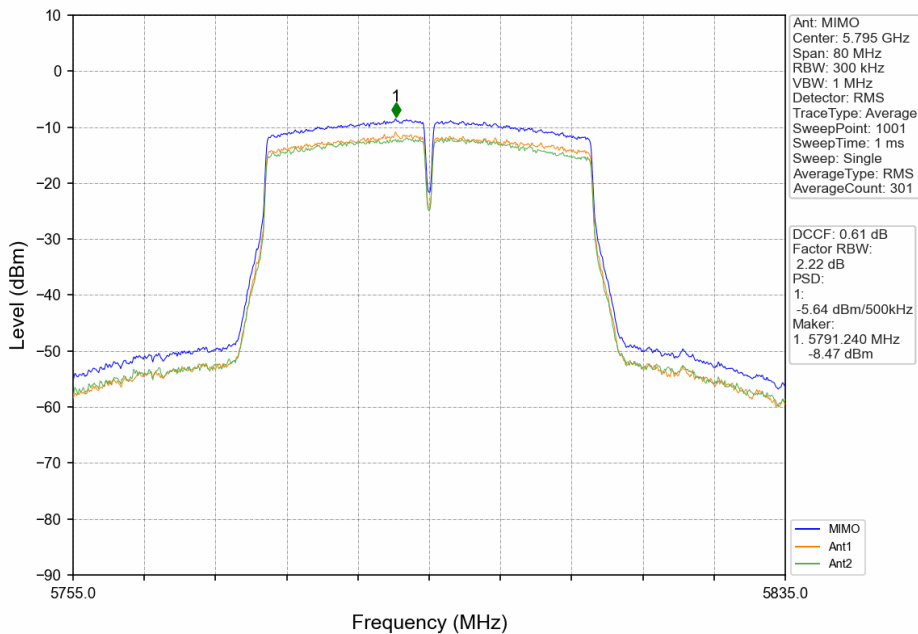


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802.11ac(VHT40)_HCH_5795MHz_Ant2_NTNV

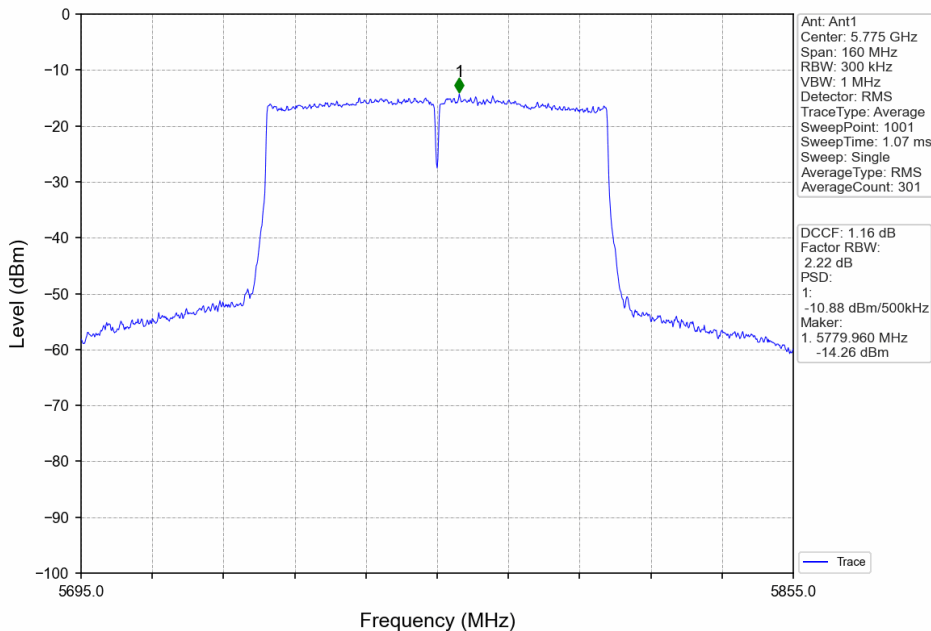


802.11ac(VHT40)_HCH_5795MHz_MIMO_NTNV

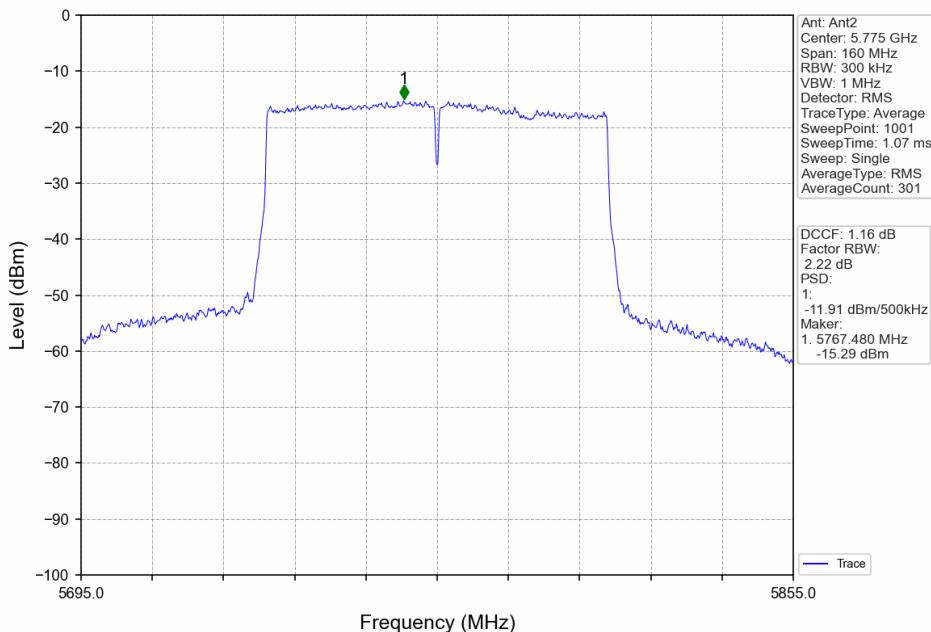


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802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV

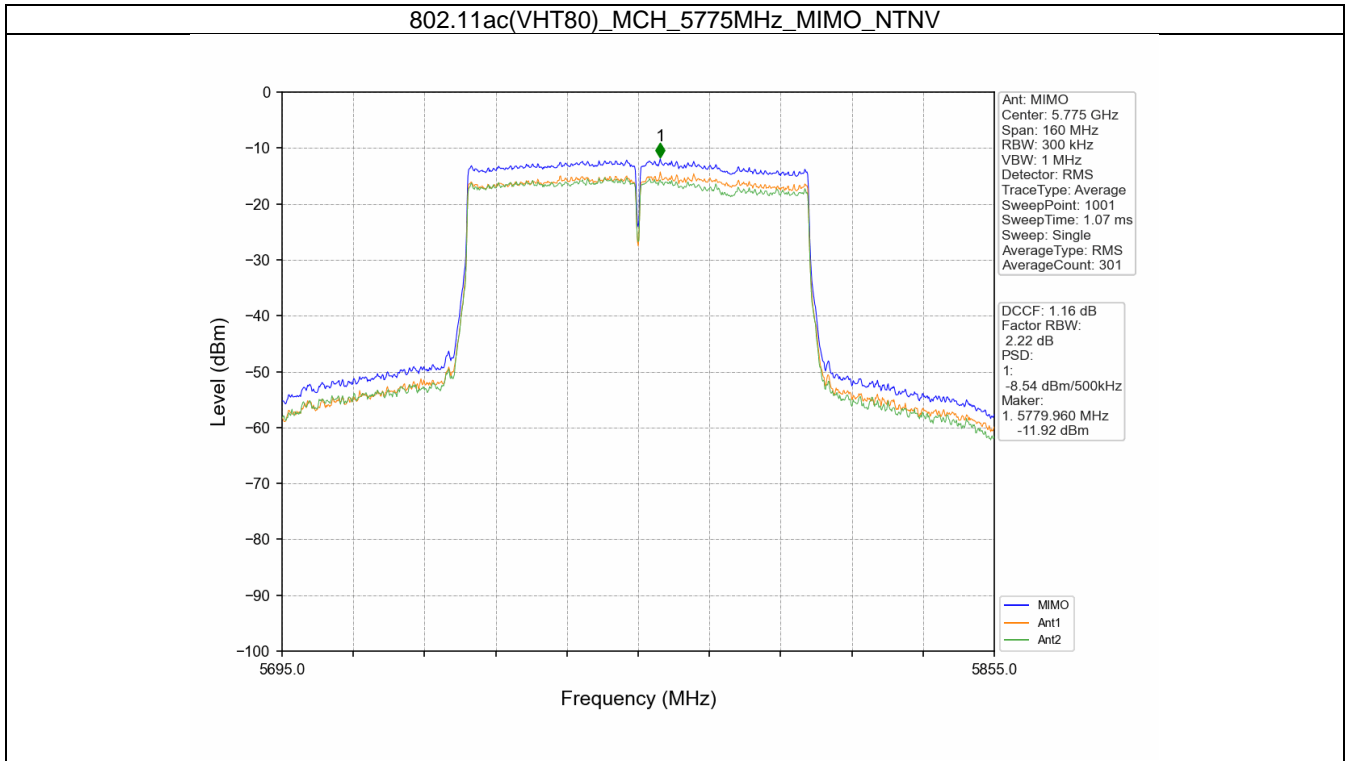


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5. Frequency Stability

5.1 Ant1

5.1.1 Test Result

| Ant1 | | | | | | | | | | |
|---------|---------|-----------------|------------------|---------------|--------------------------|--------------|--------------|--------------|--------------|------|
| Mode | TX Type | Frequency (MHz) | Temperature (°C) | Voltage (VAC) | Measured Frequency (MHz) | Limit (MHz) | Verdict | | | |
| 802.11a | SISO | 5180 | 20 | 102 | 5179.920 | 5150 to 5250 | Pass | | | |
| | | | | 120 | 5179.940 | 5150 to 5250 | Pass | | | |
| | | | | 138 | 5179.900 | 5150 to 5250 | Pass | | | |
| | | | 5200 | -30 | 120 | 5179.940 | 5150 to 5250 | Pass | | |
| | | | | | -20 | 120 | 5179.920 | 5150 to 5250 | Pass | |
| | | | | | | 120 | 5180.020 | 5150 to 5250 | Pass | |
| | | | | 0 | | 120 | 5179.940 | 5150 to 5250 | Pass | |
| | | | | | 10 | 120 | 5180.020 | 5150 to 5250 | Pass | |
| | | | | | 30 | 120 | 5179.860 | 5150 to 5250 | Pass | |
| | | 5240 | | 40 | 120 | 5179.940 | 5150 to 5250 | Pass | | |
| | | | | | 50 | 120 | 5180.000 | 5150 to 5250 | Pass | |
| | | | | | 20 | 102 | 5199.920 | 5150 to 5250 | Pass | |
| | | | 120 | 5199.880 | | 5150 to 5250 | Pass | | | |
| | | | 138 | 5199.880 | | 5150 to 5250 | Pass | | | |
| | | | 5745 | -30 | 120 | 5199.920 | 5150 to 5250 | Pass | | |
| | | | | | -20 | 120 | 5199.980 | 5150 to 5250 | Pass | |
| | | | | | | 120 | 5199.920 | 5150 to 5250 | Pass | |
| | | | | -10 | | 120 | 5199.920 | 5150 to 5250 | Pass | |
| | | 0 | | | 120 | 5199.960 | 5150 to 5250 | Pass | | |
| | | 10 | | | 120 | 5199.920 | 5150 to 5250 | Pass | | |
| | | 5240 | | 30 | 120 | 5199.920 | 5150 to 5250 | Pass | | |
| | | | | | 40 | 120 | 5199.980 | 5150 to 5250 | Pass | |
| | | | | | 50 | 120 | 5199.880 | 5150 to 5250 | Pass | |
| | | | 5240 | 20 | 102 | 5239.940 | 5150 to 5250 | Pass | | |
| | | | | | 120 | 5239.960 | 5150 to 5250 | Pass | | |
| | | | | | 138 | 5239.900 | 5150 to 5250 | Pass | | |
| | | | | 5745 | -30 | 120 | 5239.960 | 5150 to 5250 | Pass | |
| | | | | | | -20 | 120 | 5239.960 | 5150 to 5250 | Pass |
| | | | | | | | 120 | 5239.980 | 5150 to 5250 | Pass |
| | | -10 | | | 120 | | 5239.980 | 5150 to 5250 | Pass | |
| | | | | | 0 | 120 | 5240.000 | 5150 to 5250 | Pass | |
| | | | | | 10 | 120 | 5239.940 | 5150 to 5250 | Pass | |
| | | 5745 | 30 | | 120 | 5239.900 | 5150 to 5250 | Pass | | |
| | | | | | 40 | 120 | 5239.900 | 5150 to 5250 | Pass | |
| | | | | | 50 | 120 | 5239.980 | 5150 to 5250 | Pass | |
| | | | 5745 | 20 | 102 | 5745.000 | 5725 to 5850 | Pass | | |
| | | | | | 120 | 5744.900 | 5725 to 5850 | Pass | | |
| | | | | | 138 | 5744.940 | 5725 to 5850 | Pass | | |
| | | | | -30 | 120 | 5744.980 | 5725 to 5850 | Pass | | |
| | | | | | -20 | 120 | 5744.960 | 5725 to 5850 | Pass | |
| | | | | | | 120 | 5744.920 | 5725 to 5850 | Pass | |
| | | -10 | | 120 | | 5744.920 | 5725 to 5850 | Pass | | |
| | | | | 0 | 120 | 5745.000 | 5725 to 5850 | Pass | | |
| | | | | 10 | 120 | 5744.940 | 5725 to 5850 | Pass | | |
| | | 30 | 120 | 5744.940 | 5725 to 5850 | Pass | | | | |

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| | | | | | | | | | |
|------|------|----------|-------------------|----------|--------------|--------------|--------------|--------------|--------------|
| | | 5785 | 40 | 120 | 5745.020 | 5725 to 5850 | Pass | | |
| | | | 50 | 120 | 5744.940 | 5725 to 5850 | Pass | | |
| | | | 20 | 102 | 5784.900 | 5725 to 5850 | Pass | | |
| | | | | 120 | 5784.920 | 5725 to 5850 | Pass | | |
| | | | | 138 | 5784.940 | 5725 to 5850 | Pass | | |
| | | | -30 | 120 | 5784.960 | 5725 to 5850 | Pass | | |
| | | | -20 | 120 | 5785.000 | 5725 to 5850 | Pass | | |
| | | | -10 | 120 | 5784.900 | 5725 to 5850 | Pass | | |
| | | | 0 | 120 | 5785.000 | 5725 to 5850 | Pass | | |
| | | | 10 | 120 | 5784.940 | 5725 to 5850 | Pass | | |
| | | | 30 | 120 | 5784.920 | 5725 to 5850 | Pass | | |
| | | | 40 | 120 | 5784.940 | 5725 to 5850 | Pass | | |
| | | 50 | 120 | 5784.920 | 5725 to 5850 | Pass | | | |
| | | 5825 | 20 | 102 | 5824.940 | 5725 to 5850 | Pass | | |
| | | | | 120 | 5825.060 | 5725 to 5850 | Pass | | |
| | | | | 138 | 5824.920 | 5725 to 5850 | Pass | | |
| | | | -30 | 120 | 5824.960 | 5725 to 5850 | Pass | | |
| | | | -20 | 120 | 5824.900 | 5725 to 5850 | Pass | | |
| | | | -10 | 120 | 5824.900 | 5725 to 5850 | Pass | | |
| | | | 0 | 120 | 5824.900 | 5725 to 5850 | Pass | | |
| | | | 10 | 120 | 5824.900 | 5725 to 5850 | Pass | | |
| | | | 30 | 120 | 5825.040 | 5725 to 5850 | Pass | | |
| | | | 40 | 120 | 5824.960 | 5725 to 5850 | Pass | | |
| | | | 50 | 120 | 5824.900 | 5725 to 5850 | Pass | | |
| | | | 802.11n (HT20) | MIMO | 5180 | 20 | 102 | 5179.940 | 5150 to 5250 |
| | | 120 | | | | | 5179.960 | 5150 to 5250 | Pass |
| | | 138 | | | | | 5179.940 | 5150 to 5250 | Pass |
| | | -30 | | | | 120 | 5179.960 | 5150 to 5250 | Pass |
| -20 | 120 | 5180.000 | | | | 5150 to 5250 | Pass | | |
| -10 | 120 | 5179.920 | | | | 5150 to 5250 | Pass | | |
| 0 | 120 | 5179.980 | | | | 5150 to 5250 | Pass | | |
| 10 | 120 | 5180.020 | | | | 5150 to 5250 | Pass | | |
| 30 | 120 | 5179.960 | | | | 5150 to 5250 | Pass | | |
| 40 | 120 | 5179.940 | | | | 5150 to 5250 | Pass | | |
| 50 | 120 | 5179.960 | | | | 5150 to 5250 | Pass | | |
| 5200 | 20 | 102 | | | | 5199.980 | 5150 to 5250 | Pass | |
| | | 120 | | | 5200.000 | 5150 to 5250 | Pass | | |
| | | 138 | | | 5200.000 | 5150 to 5250 | Pass | | |
| | -30 | 120 | | | 5199.940 | 5150 to 5250 | Pass | | |
| | -20 | 120 | | | 5199.900 | 5150 to 5250 | Pass | | |
| | -10 | 120 | | | 5199.920 | 5150 to 5250 | Pass | | |
| | 0 | 120 | | | 5200.000 | 5150 to 5250 | Pass | | |
| | 10 | 120 | | | 5199.980 | 5150 to 5250 | Pass | | |
| | 30 | 120 | | | 5199.920 | 5150 to 5250 | Pass | | |
| | 40 | 120 | | | 5200.000 | 5150 to 5250 | Pass | | |
| | 50 | 120 | | | 5199.980 | 5150 to 5250 | Pass | | |
| | 5240 | 20 | | | 102 | 5239.960 | 5150 to 5250 | Pass | |
| 120 | | | | | 5239.920 | 5150 to 5250 | Pass | | |
| 138 | | | | | 5240.000 | 5150 to 5250 | Pass | | |
| -30 | | 120 | | | 5239.900 | 5150 to 5250 | Pass | | |
| -20 | | 120 | | | 5239.940 | 5150 to 5250 | Pass | | |
| -10 | | 120 | | | 5239.920 | 5150 to 5250 | Pass | | |



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| | | | | | | | | | | |
|------|-----|----------|-------------------|------|--------------|--------------|--------------|--------------|--------------|------|
| | | | 0 | 120 | 5240.000 | 5150 to 5250 | Pass | | | |
| | | | 10 | 120 | 5239.960 | 5150 to 5250 | Pass | | | |
| | | | 30 | 120 | 5239.920 | 5150 to 5250 | Pass | | | |
| | | | 40 | 120 | 5240.040 | 5150 to 5250 | Pass | | | |
| | | | 50 | 120 | 5239.960 | 5150 to 5250 | Pass | | | |
| | | 5745 | 20 | 102 | 5744.980 | 5725 to 5850 | Pass | | | |
| | | | | 120 | 5744.960 | 5725 to 5850 | Pass | | | |
| | | | | 138 | 5745.000 | 5725 to 5850 | Pass | | | |
| | | | -30 | 120 | 5744.980 | 5725 to 5850 | Pass | | | |
| | | | -20 | 120 | 5744.960 | 5725 to 5850 | Pass | | | |
| | | | -10 | 120 | 5744.940 | 5725 to 5850 | Pass | | | |
| | | | 0 | 120 | 5745.040 | 5725 to 5850 | Pass | | | |
| | | | 10 | 120 | 5744.940 | 5725 to 5850 | Pass | | | |
| | | | 30 | 120 | 5744.940 | 5725 to 5850 | Pass | | | |
| | | | 40 | 120 | 5744.940 | 5725 to 5850 | Pass | | | |
| | | | 50 | 120 | 5744.980 | 5725 to 5850 | Pass | | | |
| | | | 5785 | 20 | 102 | 5784.920 | 5725 to 5850 | Pass | | |
| | | | | | 120 | 5784.980 | 5725 to 5850 | Pass | | |
| | | | | | 138 | 5784.920 | 5725 to 5850 | Pass | | |
| | | | | -30 | 120 | 5784.900 | 5725 to 5850 | Pass | | |
| | | -20 | | 120 | 5784.940 | 5725 to 5850 | Pass | | | |
| | | -10 | | 120 | 5784.940 | 5725 to 5850 | Pass | | | |
| | | 0 | | 120 | 5784.940 | 5725 to 5850 | Pass | | | |
| | | 10 | | 120 | 5784.940 | 5725 to 5850 | Pass | | | |
| | | 30 | | 120 | 5784.900 | 5725 to 5850 | Pass | | | |
| | | 40 | | 120 | 5784.980 | 5725 to 5850 | Pass | | | |
| | | 50 | | 120 | 5784.980 | 5725 to 5850 | Pass | | | |
| | | 5825 | | 20 | 102 | 5825.020 | 5725 to 5850 | Pass | | |
| | | | | | 120 | 5825.000 | 5725 to 5850 | Pass | | |
| | | | | | 138 | 5824.920 | 5725 to 5850 | Pass | | |
| | | | | -30 | 120 | 5825.000 | 5725 to 5850 | Pass | | |
| | | | -20 | 120 | 5824.940 | 5725 to 5850 | Pass | | | |
| | | | -10 | 120 | 5825.000 | 5725 to 5850 | Pass | | | |
| | | | 0 | 120 | 5824.980 | 5725 to 5850 | Pass | | | |
| | | | 10 | 120 | 5825.020 | 5725 to 5850 | Pass | | | |
| | | | 30 | 120 | 5825.000 | 5725 to 5850 | Pass | | | |
| | | | 40 | 120 | 5824.960 | 5725 to 5850 | Pass | | | |
| | | | 50 | 120 | 5824.980 | 5725 to 5850 | Pass | | | |
| | | | 802.11n (HT40) | MIMO | 5190 | 20 | 102 | 5189.960 | 5150 to 5250 | Pass |
| | | | | | | | 120 | 5189.960 | 5150 to 5250 | Pass |
| | | | | | | | 138 | 5189.960 | 5150 to 5250 | Pass |
| | | | | | | -30 | 120 | 5189.920 | 5150 to 5250 | Pass |
| | | -20 | | | | 120 | 5189.920 | 5150 to 5250 | Pass | |
| | | -10 | | | | 120 | 5189.960 | 5150 to 5250 | Pass | |
| | | 0 | | | | 120 | 5189.920 | 5150 to 5250 | Pass | |
| 10 | 120 | 5189.960 | | | | 5150 to 5250 | Pass | | | |
| 30 | 120 | 5190.040 | | | | 5150 to 5250 | Pass | | | |
| 5230 | 20 | 40 | | | 120 | 5189.880 | 5150 to 5250 | Pass | | |
| | | 50 | | | 120 | 5189.960 | 5150 to 5250 | Pass | | |
| | | 102 | | | 5229.880 | 5150 to 5250 | Pass | | | |
| | 120 | 5229.960 | | | 5150 to 5250 | Pass | | | | |
| | 138 | 5229.960 | | | 5150 to 5250 | Pass | | | | |



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| | | | | | | | | | |
|------|-----|------------------|--------------|----------|--------------|--------------|--------------|--------------|------|
| | | | -30 | 120 | 5229.960 | 5150 to 5250 | Pass | | |
| | | | -20 | 120 | 5229.920 | 5150 to 5250 | Pass | | |
| | | | -10 | 120 | 5229.960 | 5150 to 5250 | Pass | | |
| | | | 0 | 120 | 5229.960 | 5150 to 5250 | Pass | | |
| | | | 10 | 120 | 5229.960 | 5150 to 5250 | Pass | | |
| | | | 30 | 120 | 5229.920 | 5150 to 5250 | Pass | | |
| | | | 40 | 120 | 5229.920 | 5150 to 5250 | Pass | | |
| | | 50 | 120 | 5230.040 | 5150 to 5250 | Pass | | | |
| | | 5755 | 20 | 102 | 5754.960 | 5725 to 5850 | Pass | | |
| | | | | 120 | 5754.960 | 5725 to 5850 | Pass | | |
| | | | | 138 | 5754.920 | 5725 to 5850 | Pass | | |
| | | | -30 | 120 | 5754.920 | 5725 to 5850 | Pass | | |
| | | | -20 | 120 | 5754.920 | 5725 to 5850 | Pass | | |
| | | | -10 | 120 | 5754.960 | 5725 to 5850 | Pass | | |
| | | | 0 | 120 | 5755.000 | 5725 to 5850 | Pass | | |
| | | | 10 | 120 | 5754.920 | 5725 to 5850 | Pass | | |
| | | | 30 | 120 | 5754.920 | 5725 to 5850 | Pass | | |
| | | | 40 | 120 | 5754.960 | 5725 to 5850 | Pass | | |
| | | | 50 | 120 | 5754.880 | 5725 to 5850 | Pass | | |
| | | | 5795 | 20 | 102 | 5794.960 | 5725 to 5850 | Pass | |
| | | | | | 120 | 5794.960 | 5725 to 5850 | Pass | |
| | | | | | 138 | 5794.880 | 5725 to 5850 | Pass | |
| | | -30 | | 120 | 5794.880 | 5725 to 5850 | Pass | | |
| | | -20 | | 120 | 5794.920 | 5725 to 5850 | Pass | | |
| | | -10 | | 120 | 5794.920 | 5725 to 5850 | Pass | | |
| | | 0 | | 120 | 5794.920 | 5725 to 5850 | Pass | | |
| | | 10 | | 120 | 5794.920 | 5725 to 5850 | Pass | | |
| | | 30 | | 120 | 5794.920 | 5725 to 5850 | Pass | | |
| | | 40 | | 120 | 5794.880 | 5725 to 5850 | Pass | | |
| | | 50 | | 120 | 5794.880 | 5725 to 5850 | Pass | | |
| | | 802.11ac (VHT20) | MIMO | 5180 | 20 | 102 | 5179.960 | 5150 to 5250 | Pass |
| | | | | | | 120 | 5179.980 | 5150 to 5250 | Pass |
| | | | | | | 138 | 5180.000 | 5150 to 5250 | Pass |
| | | | | | -30 | 120 | 5180.000 | 5150 to 5250 | Pass |
| | | | | | -20 | 120 | 5179.900 | 5150 to 5250 | Pass |
| -10 | 120 | | | | 5179.980 | 5150 to 5250 | Pass | | |
| 0 | 120 | | | | 5179.980 | 5150 to 5250 | Pass | | |
| 10 | 120 | | | | 5179.980 | 5150 to 5250 | Pass | | |
| 30 | 120 | | | | 5179.960 | 5150 to 5250 | Pass | | |
| 40 | 120 | | | | 5179.960 | 5150 to 5250 | Pass | | |
| 50 | 120 | | | | 5179.980 | 5150 to 5250 | Pass | | |
| 5200 | 20 | | | | 102 | 5199.980 | 5150 to 5250 | Pass | |
| | | | | | 120 | 5199.960 | 5150 to 5250 | Pass | |
| | | | | 138 | 5199.920 | 5150 to 5250 | Pass | | |
| | -30 | | | 120 | 5200.020 | 5150 to 5250 | Pass | | |
| | -20 | | | 120 | 5199.980 | 5150 to 5250 | Pass | | |
| | -10 | | | 120 | 5200.000 | 5150 to 5250 | Pass | | |
| | 0 | | | 120 | 5199.920 | 5150 to 5250 | Pass | | |
| 10 | 120 | | | 5200.000 | 5150 to 5250 | Pass | | | |
| 30 | 120 | | | 5200.020 | 5150 to 5250 | Pass | | | |
| 40 | 120 | 5200.040 | 5150 to 5250 | Pass | | | | | |
| 50 | 120 | 5199.980 | 5150 to 5250 | Pass | | | | | |



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| | | | | | | | |
|---------------------|------|----------|--------------|--------------|--------------|--------------|------|
| | | 5240 | 20 | 102 | 5239.900 | 5150 to 5250 | Pass |
| | | | | 120 | 5239.920 | 5150 to 5250 | Pass |
| | | | | 138 | 5239.940 | 5150 to 5250 | Pass |
| | | | -30 | 120 | 5239.980 | 5150 to 5250 | Pass |
| | | | -20 | 120 | 5239.940 | 5150 to 5250 | Pass |
| | | | -10 | 120 | 5239.960 | 5150 to 5250 | Pass |
| | | | 0 | 120 | 5239.980 | 5150 to 5250 | Pass |
| | | | 10 | 120 | 5240.020 | 5150 to 5250 | Pass |
| | | | 30 | 120 | 5239.900 | 5150 to 5250 | Pass |
| | | | 40 | 120 | 5239.940 | 5150 to 5250 | Pass |
| | | 50 | 120 | 5239.940 | 5150 to 5250 | Pass | |
| | | 5745 | 20 | 102 | 5744.980 | 5725 to 5850 | Pass |
| | | | | 120 | 5744.980 | 5725 to 5850 | Pass |
| | | | | 138 | 5744.920 | 5725 to 5850 | Pass |
| | | | -30 | 120 | 5744.940 | 5725 to 5850 | Pass |
| | | | -20 | 120 | 5744.900 | 5725 to 5850 | Pass |
| | | | -10 | 120 | 5744.960 | 5725 to 5850 | Pass |
| | | | 0 | 120 | 5744.960 | 5725 to 5850 | Pass |
| | | | 10 | 120 | 5745.000 | 5725 to 5850 | Pass |
| | | | 30 | 120 | 5745.020 | 5725 to 5850 | Pass |
| | | | 40 | 120 | 5744.940 | 5725 to 5850 | Pass |
| | | 50 | 120 | 5744.940 | 5725 to 5850 | Pass | |
| | | 5785 | 20 | 102 | 5785.000 | 5725 to 5850 | Pass |
| | | | | 120 | 5784.920 | 5725 to 5850 | Pass |
| | | | | 138 | 5784.960 | 5725 to 5850 | Pass |
| | | | -30 | 120 | 5784.980 | 5725 to 5850 | Pass |
| | | | -20 | 120 | 5784.960 | 5725 to 5850 | Pass |
| | | | -10 | 120 | 5784.960 | 5725 to 5850 | Pass |
| | | | 0 | 120 | 5784.960 | 5725 to 5850 | Pass |
| | | | 10 | 120 | 5784.960 | 5725 to 5850 | Pass |
| | | | 30 | 120 | 5785.020 | 5725 to 5850 | Pass |
| | | | 40 | 120 | 5785.020 | 5725 to 5850 | Pass |
| | | 50 | 120 | 5784.960 | 5725 to 5850 | Pass | |
| | | 5825 | 20 | 102 | 5824.920 | 5725 to 5850 | Pass |
| | | | | 120 | 5824.920 | 5725 to 5850 | Pass |
| | | | | 138 | 5825.020 | 5725 to 5850 | Pass |
| | | | -30 | 120 | 5824.960 | 5725 to 5850 | Pass |
| | | | -20 | 120 | 5824.960 | 5725 to 5850 | Pass |
| | | | -10 | 120 | 5824.960 | 5725 to 5850 | Pass |
| | | | 0 | 120 | 5825.020 | 5725 to 5850 | Pass |
| | | | 10 | 120 | 5824.960 | 5725 to 5850 | Pass |
| | | | 30 | 120 | 5824.940 | 5725 to 5850 | Pass |
| 40 | 120 | | 5824.960 | 5725 to 5850 | Pass | | |
| 50 | 120 | 5824.940 | 5725 to 5850 | Pass | | | |
| 802.11ac (VHT40) | MIMO | 5190 | 20 | 102 | 5189.960 | 5150 to 5250 | Pass |
| | | | | 120 | 5189.960 | 5150 to 5250 | Pass |
| | | | | 138 | 5190.040 | 5150 to 5250 | Pass |
| | | | -30 | 120 | 5189.920 | 5150 to 5250 | Pass |
| | | | -20 | 120 | 5189.960 | 5150 to 5250 | Pass |
| | | | -10 | 120 | 5189.960 | 5150 to 5250 | Pass |
| | | | 0 | 120 | 5189.960 | 5150 to 5250 | Pass |
| 10 | 120 | 5189.960 | 5150 to 5250 | Pass | | | |



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| | | | | | | | | | |
|------|-----|---------------------|----------|----------|--------------|--------------|--------------|--------------|--------------|
| | | 5230 | 30 | 120 | 5189.960 | 5150 to 5250 | Pass | | |
| | | | 40 | 120 | 5189.920 | 5150 to 5250 | Pass | | |
| | | | 50 | 120 | 5189.960 | 5150 to 5250 | Pass | | |
| | | | 20 | 102 | 5229.880 | 5150 to 5250 | Pass | | |
| | | | | 120 | 5230.000 | 5150 to 5250 | Pass | | |
| | | | | 138 | 5229.960 | 5150 to 5250 | Pass | | |
| | | | -30 | 120 | 5229.960 | 5150 to 5250 | Pass | | |
| | | | -20 | 120 | 5229.960 | 5150 to 5250 | Pass | | |
| | | | -10 | 120 | 5229.880 | 5150 to 5250 | Pass | | |
| | | | 0 | 120 | 5230.000 | 5150 to 5250 | Pass | | |
| | | | 10 | 120 | 5229.880 | 5150 to 5250 | Pass | | |
| | | | 30 | 120 | 5229.880 | 5150 to 5250 | Pass | | |
| | | 40 | 120 | 5229.920 | 5150 to 5250 | Pass | | | |
| | | 50 | 120 | 5229.960 | 5150 to 5250 | Pass | | | |
| | | 5755 | 20 | 102 | 5754.960 | 5725 to 5850 | Pass | | |
| | | | | 120 | 5755.000 | 5725 to 5850 | Pass | | |
| | | | | 138 | 5754.880 | 5725 to 5850 | Pass | | |
| | | | -30 | 120 | 5754.960 | 5725 to 5850 | Pass | | |
| | | | -20 | 120 | 5754.920 | 5725 to 5850 | Pass | | |
| | | | -10 | 120 | 5755.000 | 5725 to 5850 | Pass | | |
| | | | 0 | 120 | 5754.960 | 5725 to 5850 | Pass | | |
| | | | 10 | 120 | 5754.960 | 5725 to 5850 | Pass | | |
| | | | 30 | 120 | 5754.880 | 5725 to 5850 | Pass | | |
| | | | 40 | 120 | 5754.960 | 5725 to 5850 | Pass | | |
| | | | 50 | 120 | 5754.920 | 5725 to 5850 | Pass | | |
| | | | 5795 | 20 | 102 | 5794.880 | 5725 to 5850 | Pass | |
| | | 120 | | | 5794.920 | 5725 to 5850 | Pass | | |
| | | 138 | | | 5794.880 | 5725 to 5850 | Pass | | |
| | | -30 | | 120 | 5795.000 | 5725 to 5850 | Pass | | |
| | | -20 | | 120 | 5794.960 | 5725 to 5850 | Pass | | |
| | | -10 | | 120 | 5794.920 | 5725 to 5850 | Pass | | |
| | | 0 | | 120 | 5794.960 | 5725 to 5850 | Pass | | |
| | | 10 | | 120 | 5794.920 | 5725 to 5850 | Pass | | |
| | | 30 | | 120 | 5794.880 | 5725 to 5850 | Pass | | |
| | | 40 | | 120 | 5794.960 | 5725 to 5850 | Pass | | |
| | | 50 | | 120 | 5794.960 | 5725 to 5850 | Pass | | |
| | | 802.11ac (VHT80) | | MIMO | 5210 | 20 | 102 | 5209.925 | 5150 to 5250 |
| | | | 120 | | | | 5209.925 | 5150 to 5250 | Pass |
| | | | 138 | | | | 5210.000 | 5150 to 5250 | Pass |
| | | | -30 | | | 120 | 5210.000 | 5150 to 5250 | Pass |
| | | | -20 | | | 120 | 5209.925 | 5150 to 5250 | Pass |
| | | | -10 | | | 120 | 5210.000 | 5150 to 5250 | Pass |
| 0 | 120 | | 5210.000 | | | 5150 to 5250 | Pass | | |
| 10 | 120 | | 5210.000 | | | 5150 to 5250 | Pass | | |
| 30 | 120 | | 5210.000 | | | 5150 to 5250 | Pass | | |
| 40 | 120 | | 5209.925 | | | 5150 to 5250 | Pass | | |
| 50 | 120 | | 5210.000 | | | 5150 to 5250 | Pass | | |
| 5775 | 20 | | 102 | | | 5774.925 | 5725 to 5850 | Pass | |
| | | | 120 | | 5775.000 | 5725 to 5850 | Pass | | |
| | | | 138 | | 5775.000 | 5725 to 5850 | Pass | | |
| | -30 | | 120 | | 5774.925 | 5725 to 5850 | Pass | | |
| | -20 | | 120 | | 5774.850 | 5725 to 5850 | Pass | | |



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| | | | | | | | |
|--|--|--|-----|-----|----------|--------------|------|
| | | | -10 | 120 | 5774.850 | 5725 to 5850 | Pass |
| | | | 0 | 120 | 5774.925 | 5725 to 5850 | Pass |
| | | | 10 | 120 | 5774.925 | 5725 to 5850 | Pass |
| | | | 30 | 120 | 5774.925 | 5725 to 5850 | Pass |
| | | | 40 | 120 | 5775.000 | 5725 to 5850 | Pass |
| | | | 50 | 120 | 5774.925 | 5725 to 5850 | Pass |

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