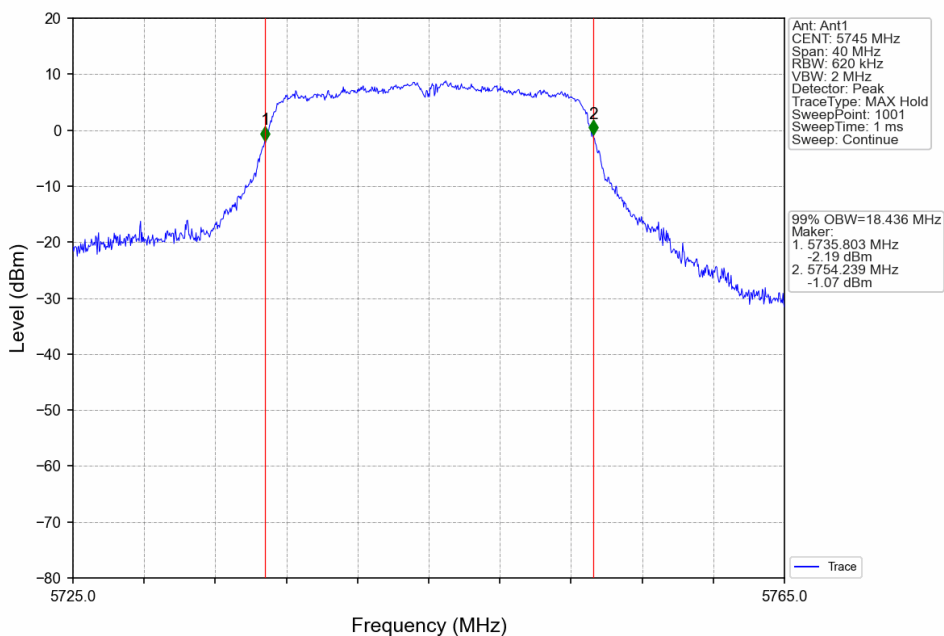
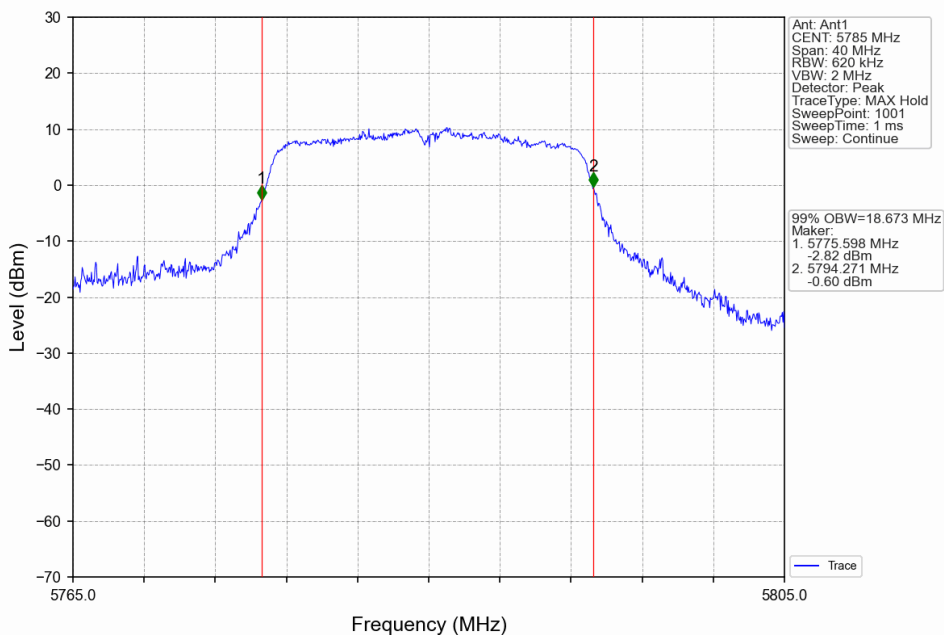


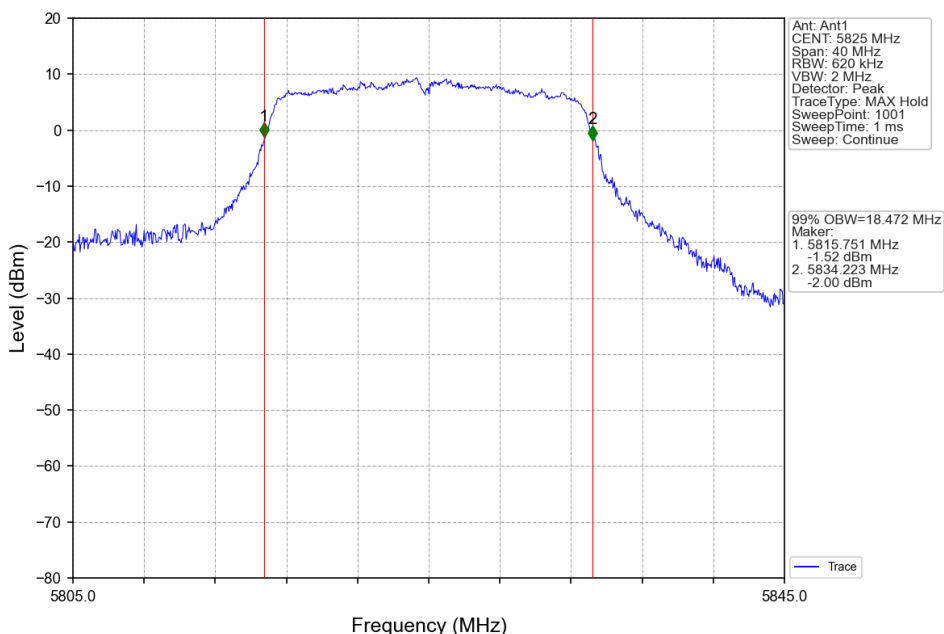
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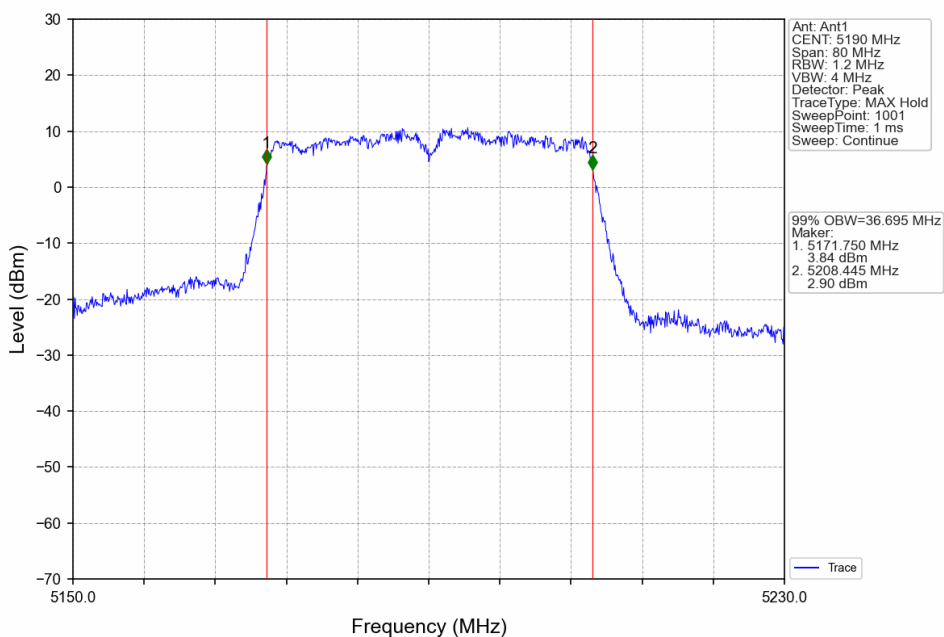
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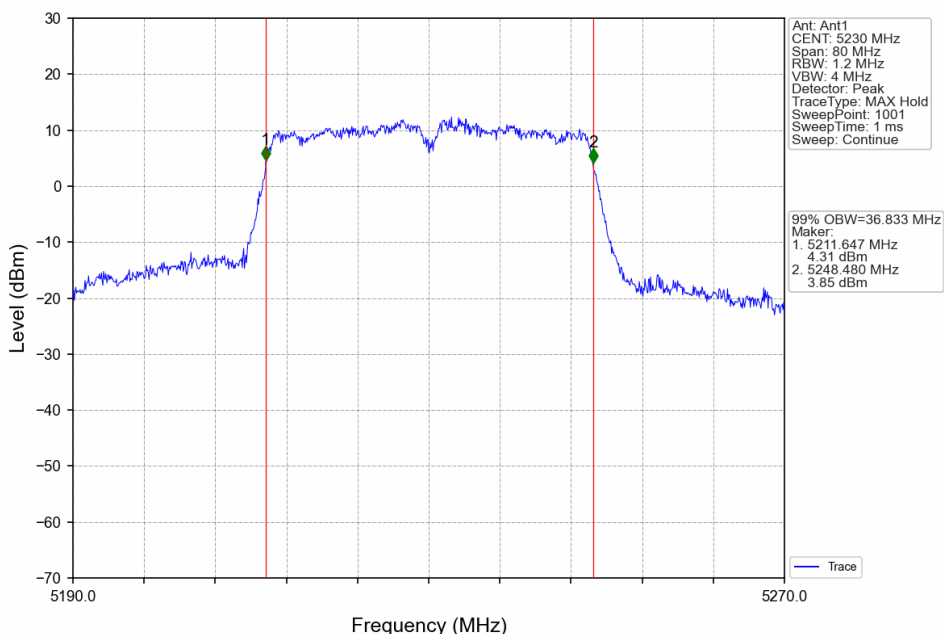
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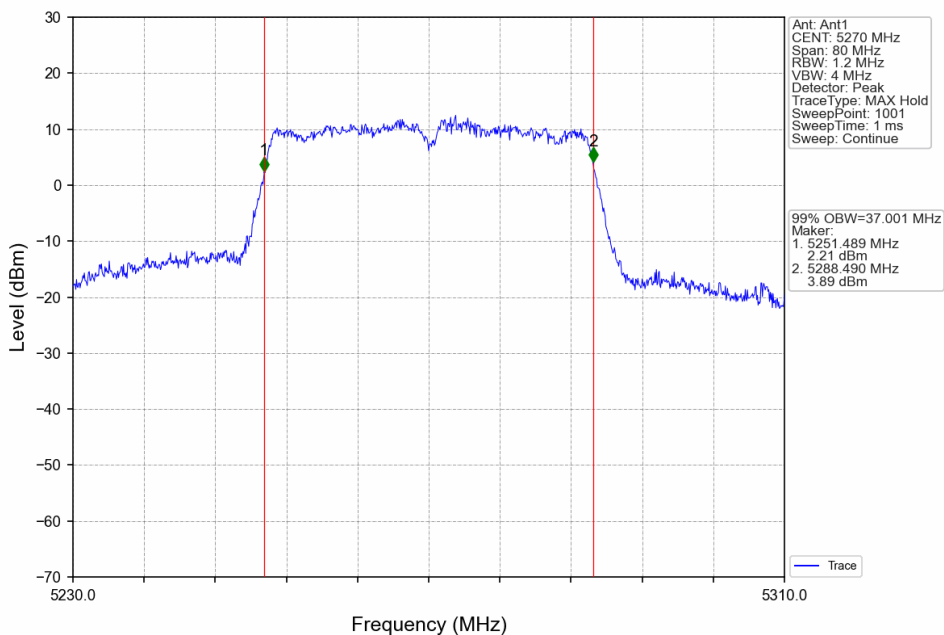
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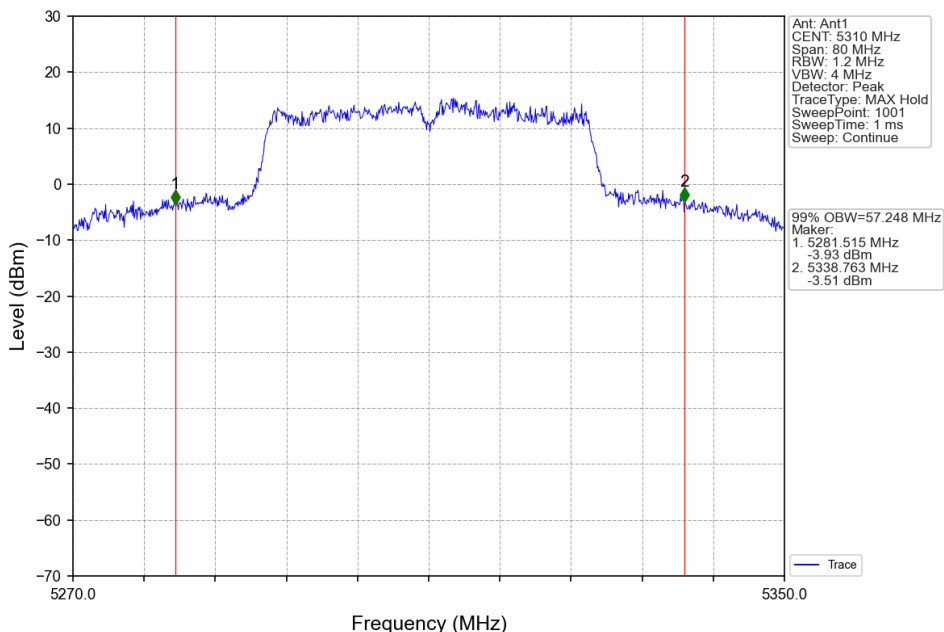
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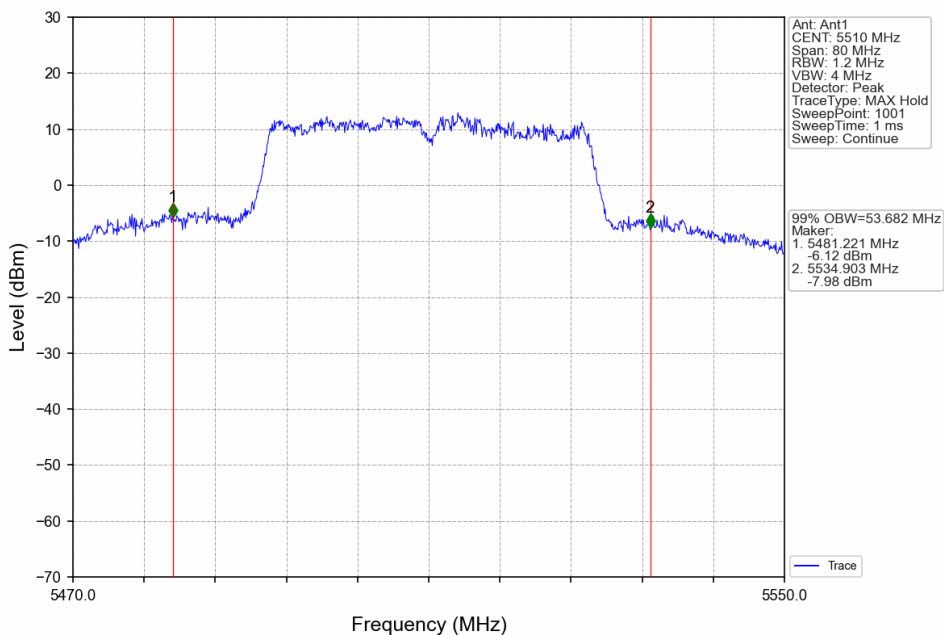
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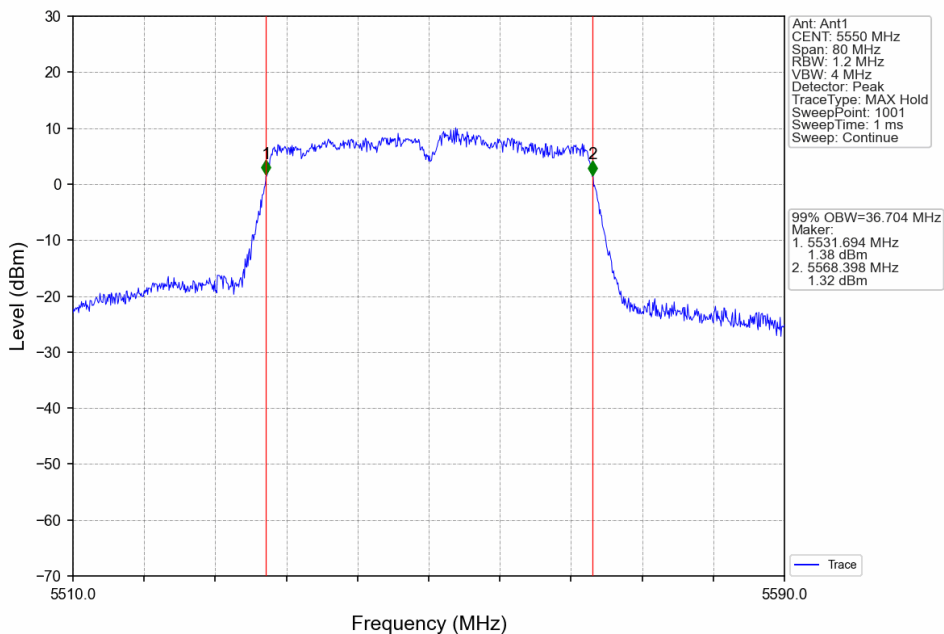
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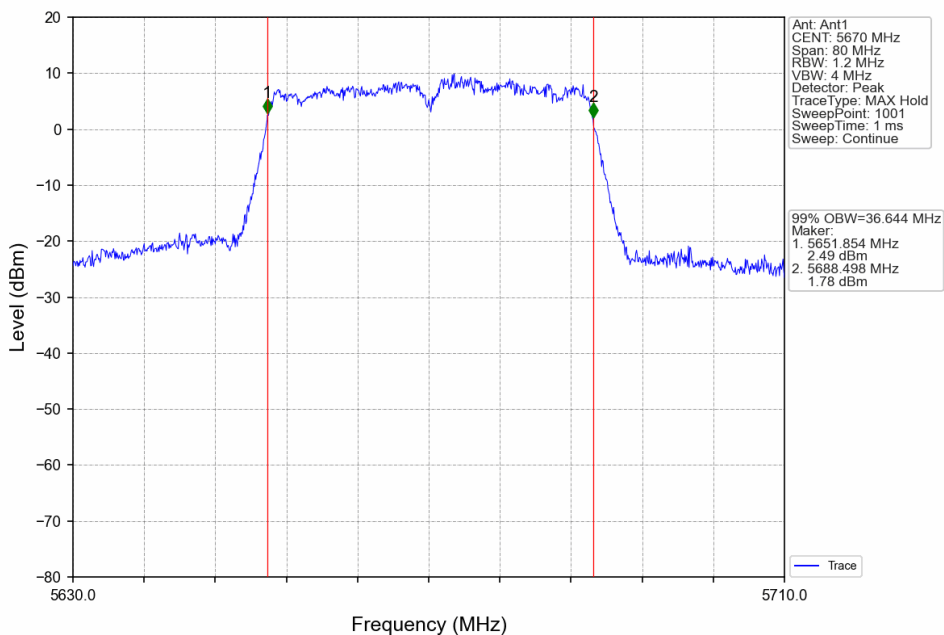
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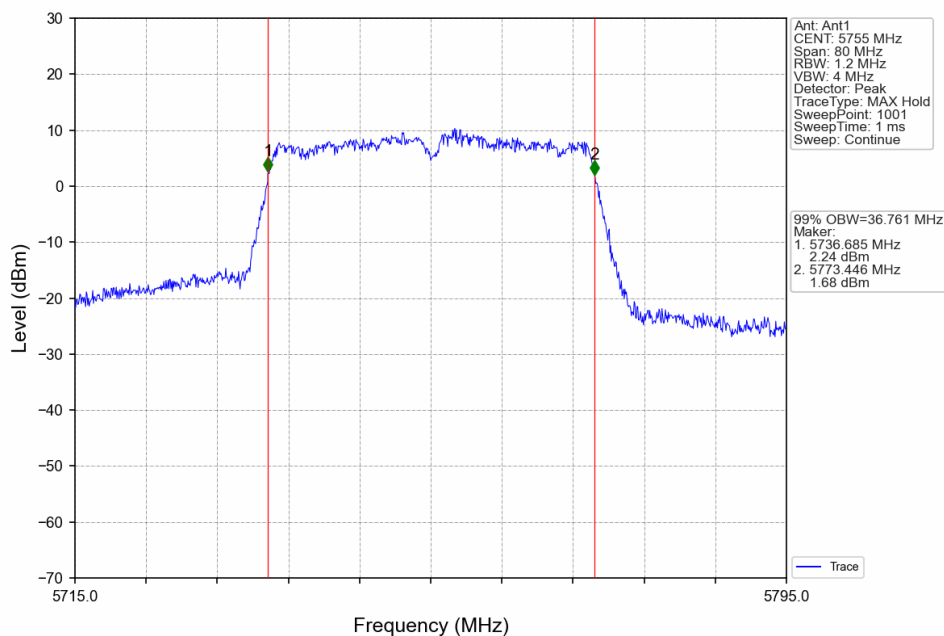
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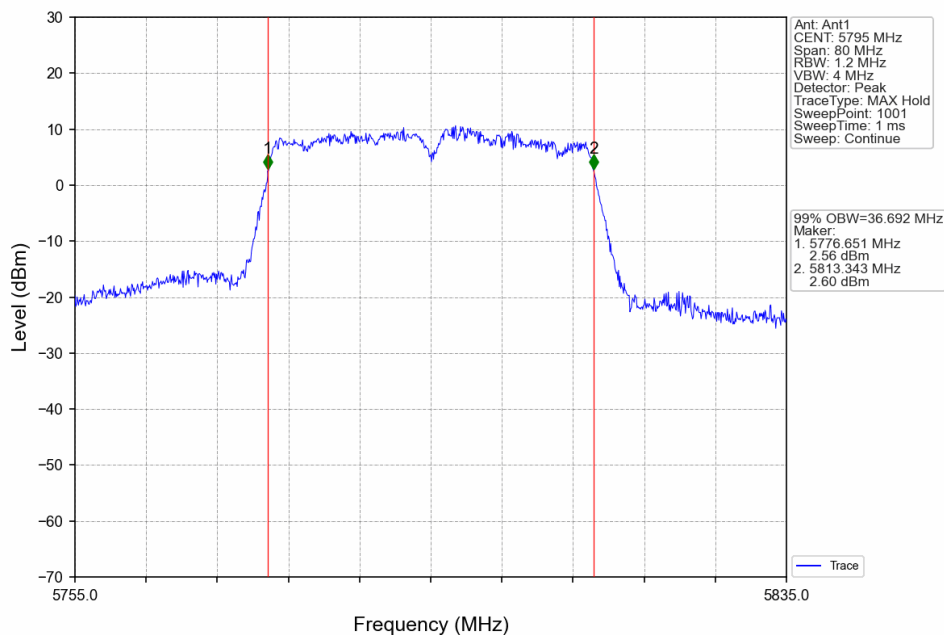
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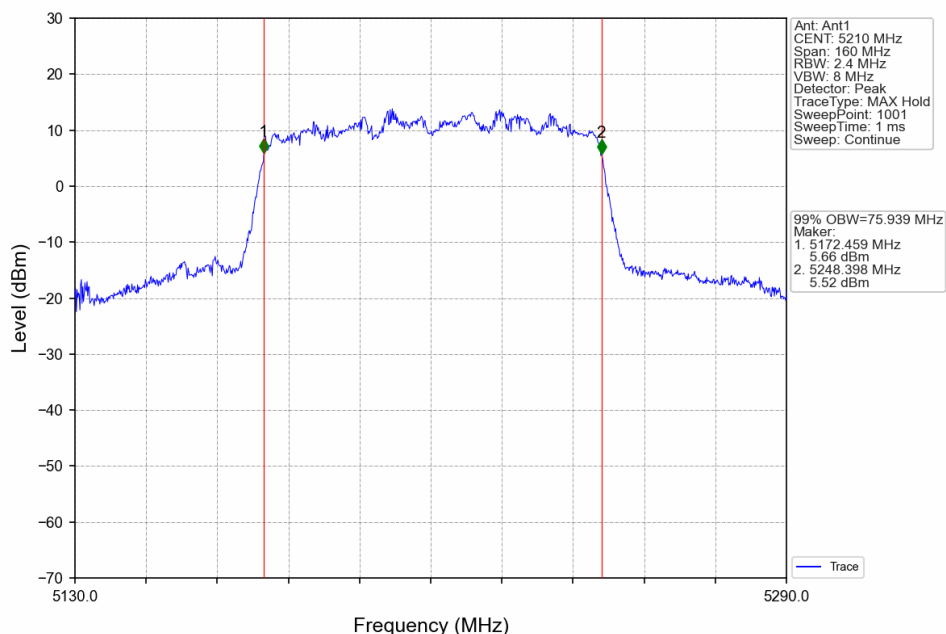
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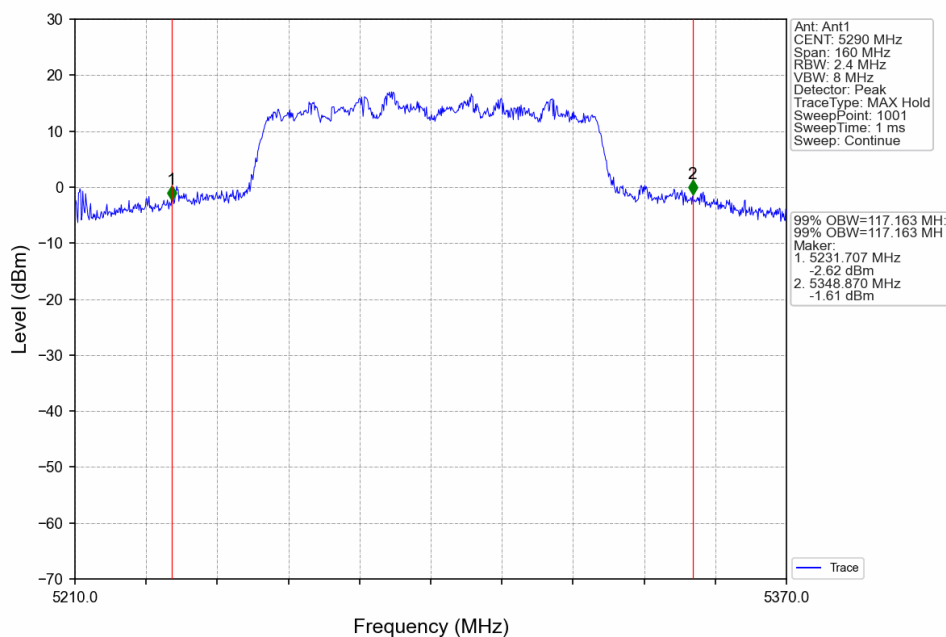
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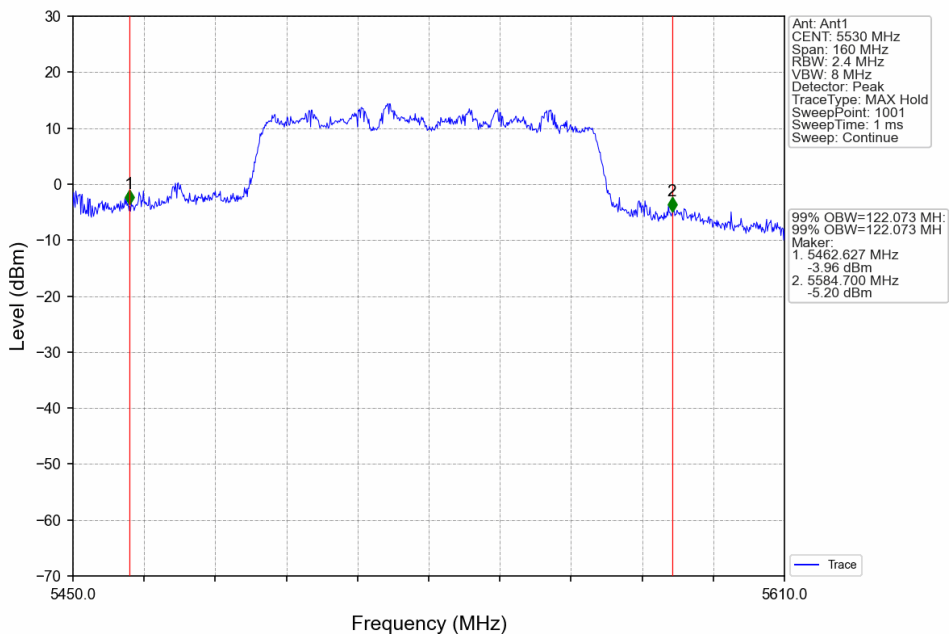
802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



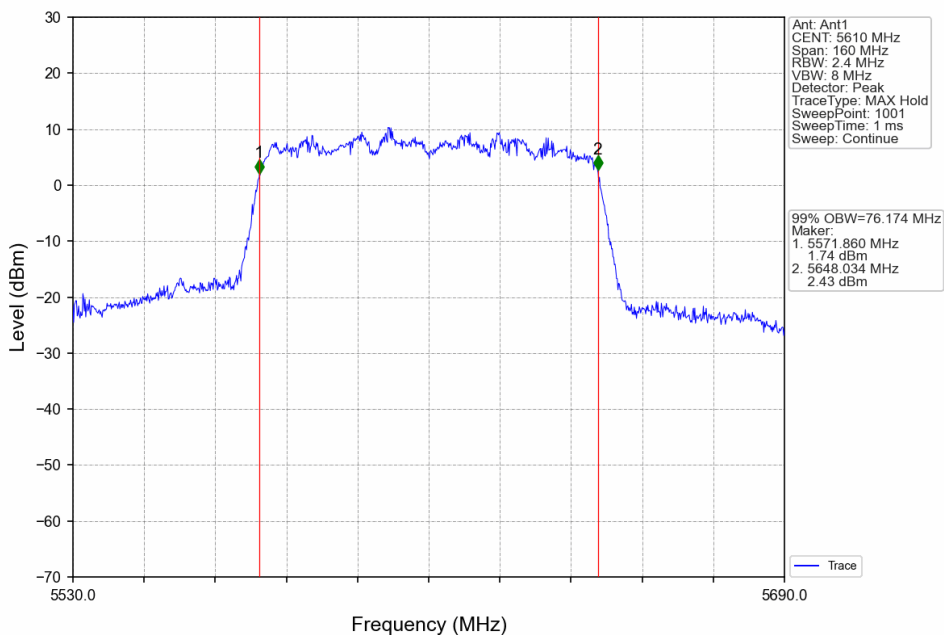
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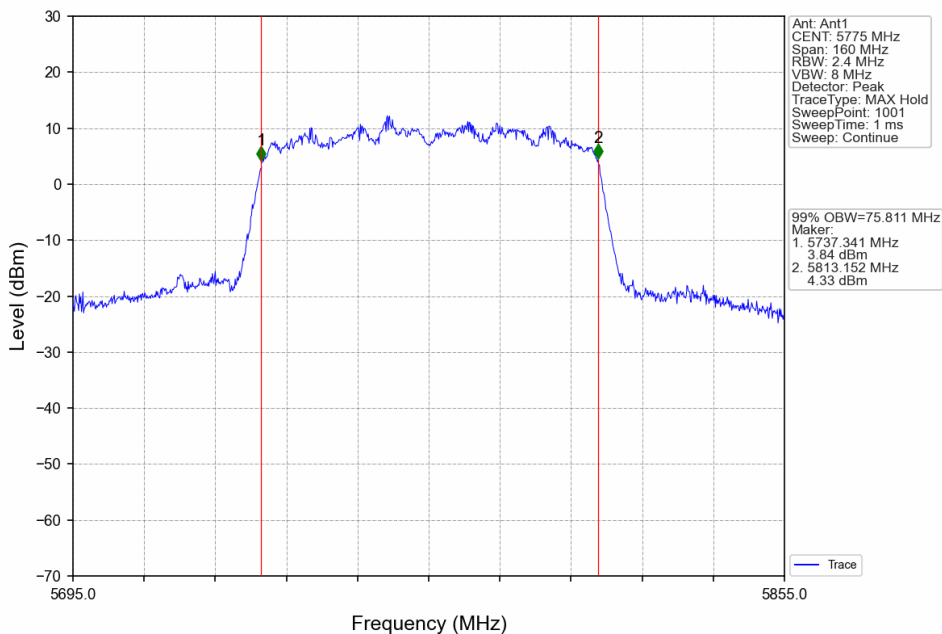
802.11ac(VHT80)_LCH_5530MHz_Ant1_NTNV



802.11ac(VHT80)_HCH_5610MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



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SZEMC-TRF-01 Rev. A/1

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2.2 6dB BW

2.2.1 Test Result

| Mode | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) | | Verdict |
|------------------|---------|-----------------|-----|---------------------|------------|---------|
| | | | | Result | Limit | |
| 802.11a | MIMO | 5745 | 1 | 15.711 | ≥ 0.5 | Pass |
| | | 5785 | 1 | 15.167 | ≥ 0.5 | Pass |
| | | 5825 | 1 | 15.434 | ≥ 0.5 | Pass |
| 802.11n (HT20) | MIMO | 5745 | 1 | 15.190 | ≥ 0.5 | Pass |
| | | 5785 | 1 | 15.150 | ≥ 0.5 | Pass |
| | | 5825 | 1 | 15.180 | ≥ 0.5 | Pass |
| 802.11n (HT40) | MIMO | 5755 | 1 | 35.200 | ≥ 0.5 | Pass |
| | | 5795 | 1 | 35.187 | ≥ 0.5 | Pass |
| 802.11ac (VHT20) | MIMO | 5745 | 1 | 15.168 | ≥ 0.5 | Pass |
| | | 5785 | 1 | 15.444 | ≥ 0.5 | Pass |
| | | 5825 | 1 | 15.091 | ≥ 0.5 | Pass |
| 802.11ac (VHT40) | MIMO | 5755 | 1 | 35.201 | ≥ 0.5 | Pass |
| | | 5795 | 1 | 35.195 | ≥ 0.5 | Pass |
| 802.11ac (VHT80) | MIMO | 5775 | 1 | 75.149 | ≥ 0.5 | Pass |



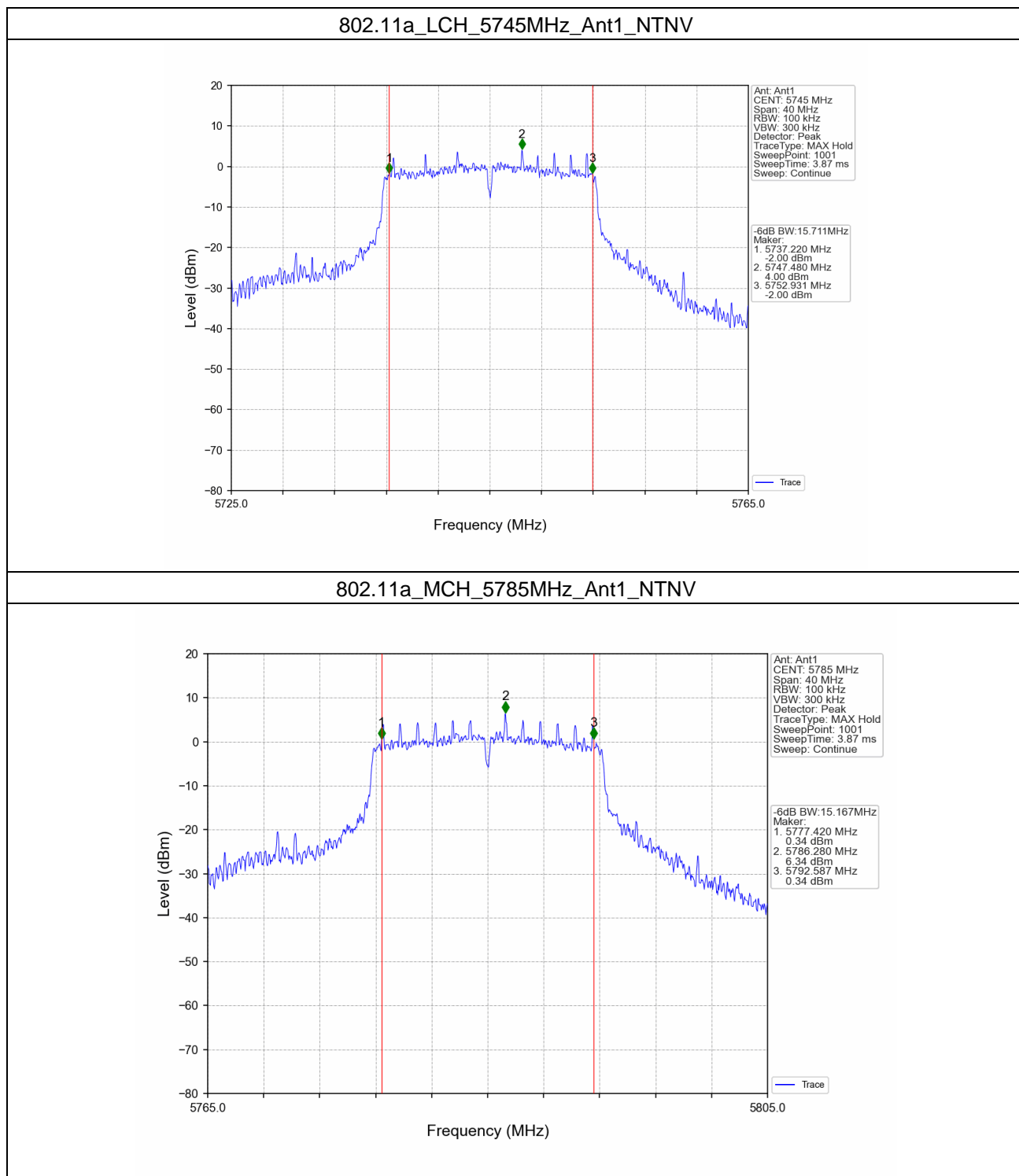
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2.2.2 Test Graph



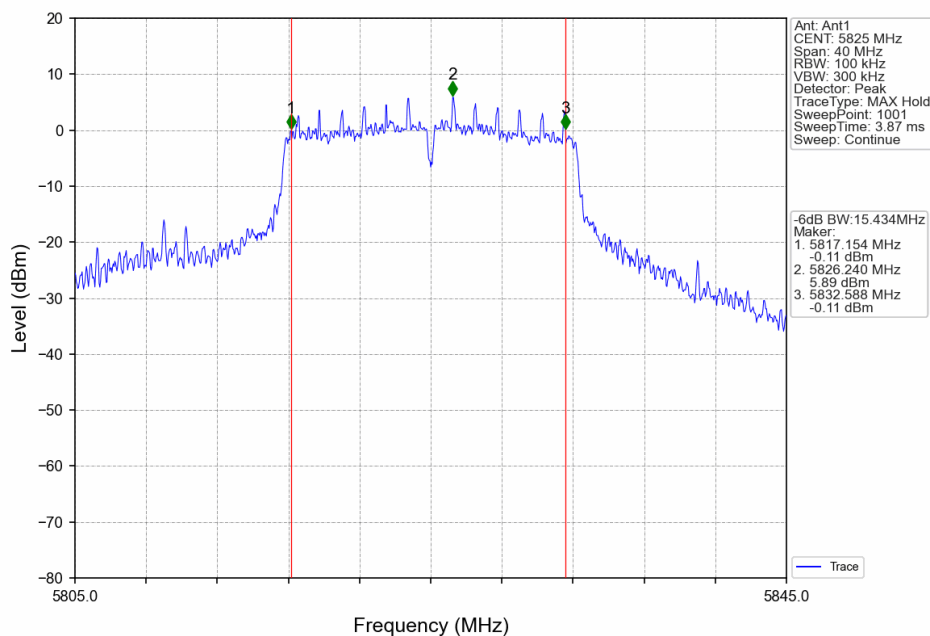
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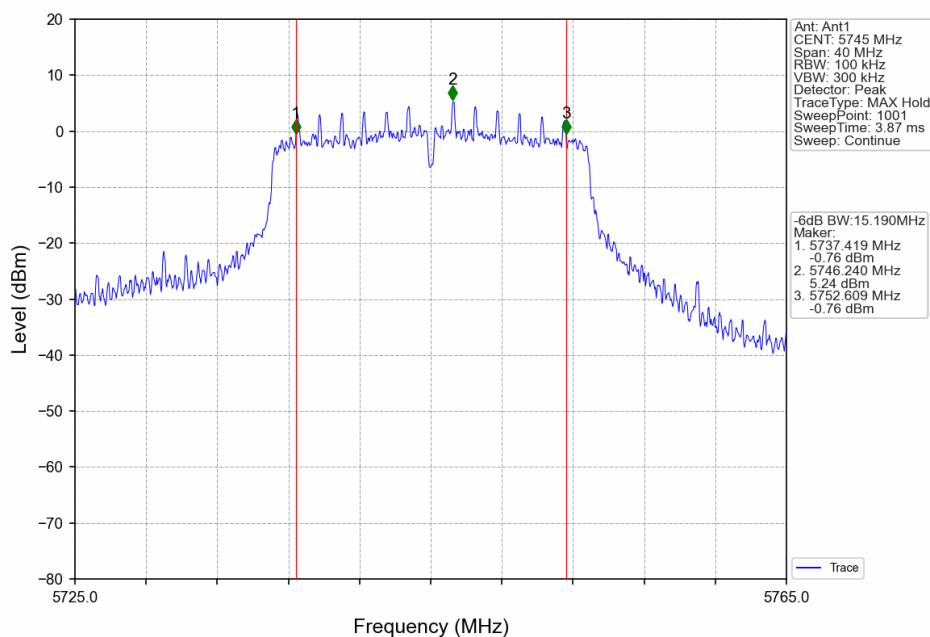
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802.11a_HCH_5825MHz_Ant1_NTNV



802.11n(HT20)_LCH_5745MHz_Ant1_NTNV



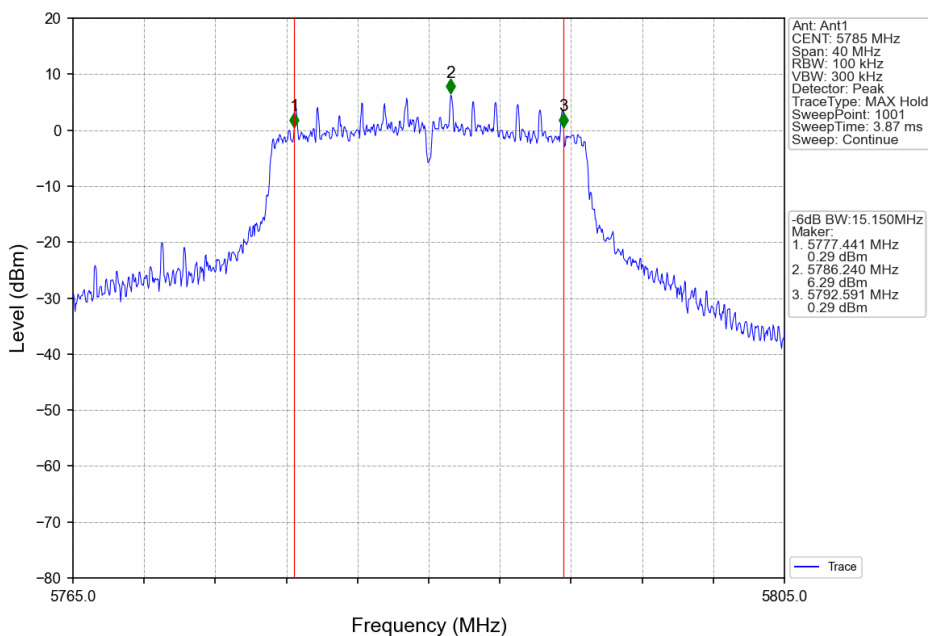
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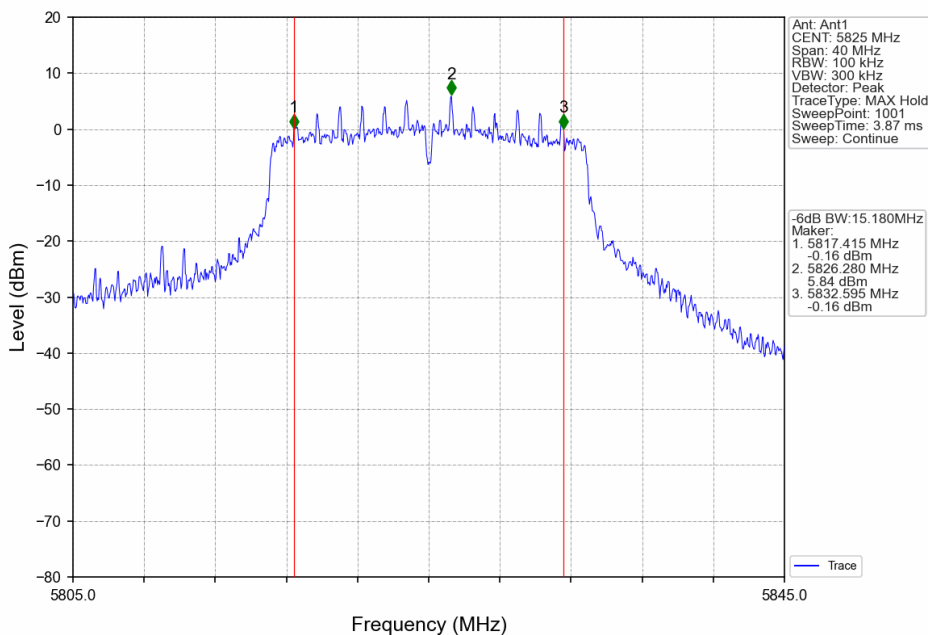
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802.11n(HT20)_MCH_5785MHz_Ant1_NTNV



802.11n(HT20)_HCH_5825MHz_Ant1_NTNV



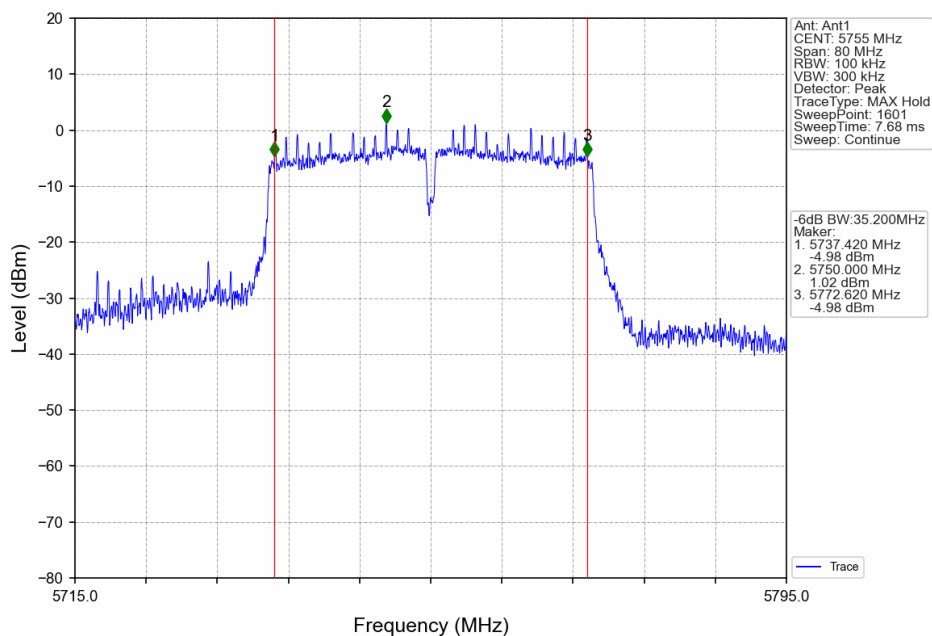
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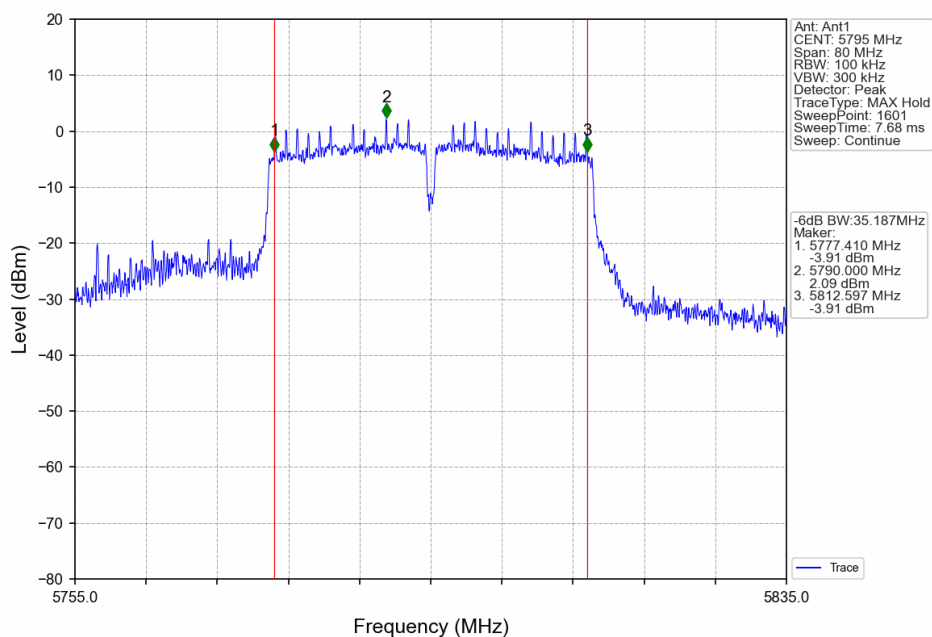
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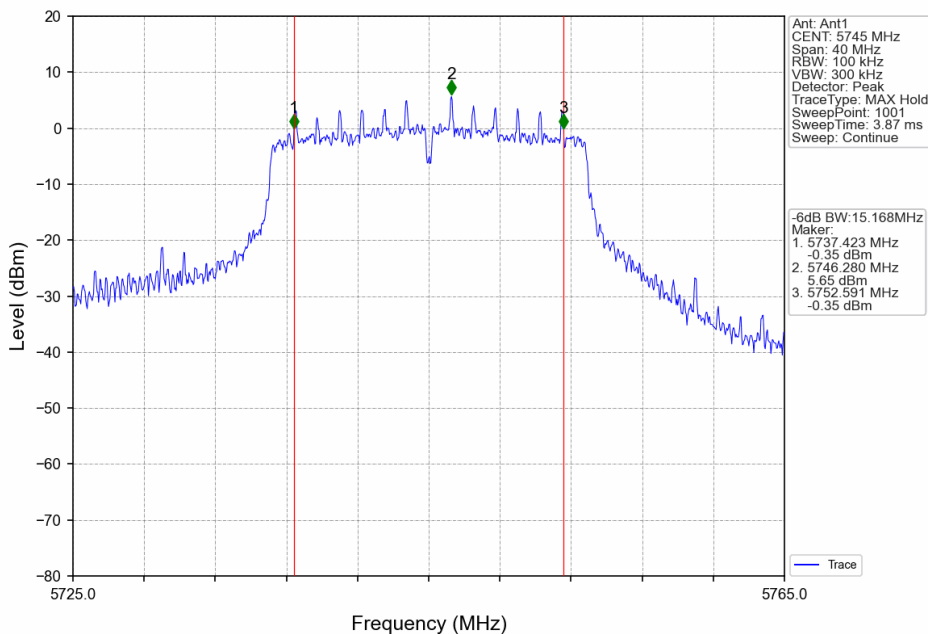
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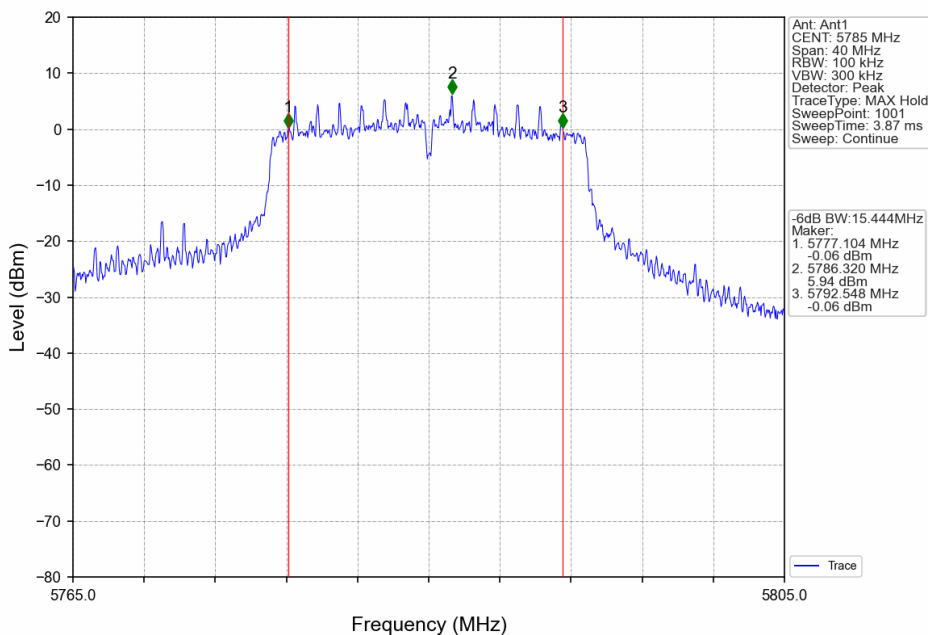
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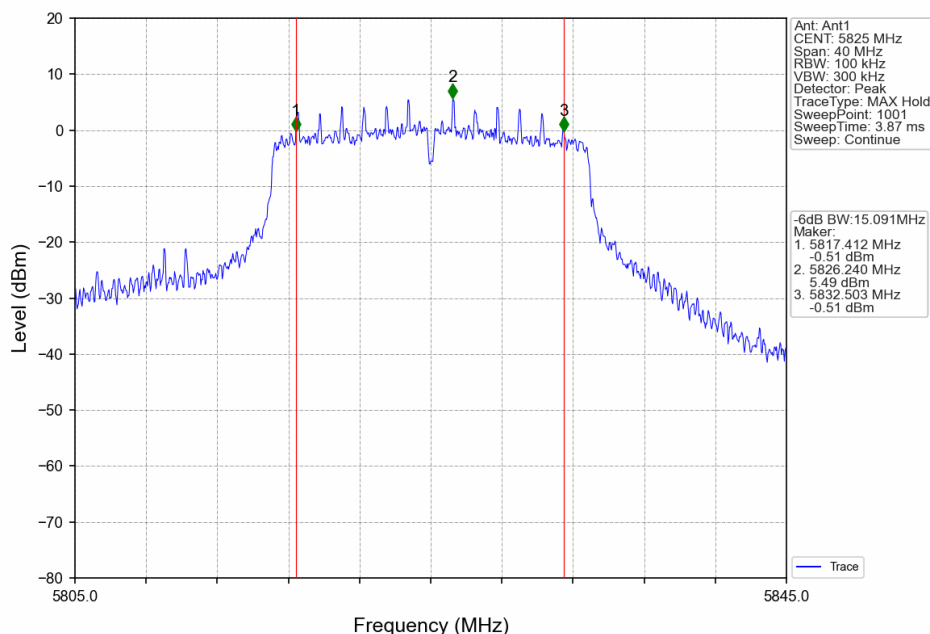
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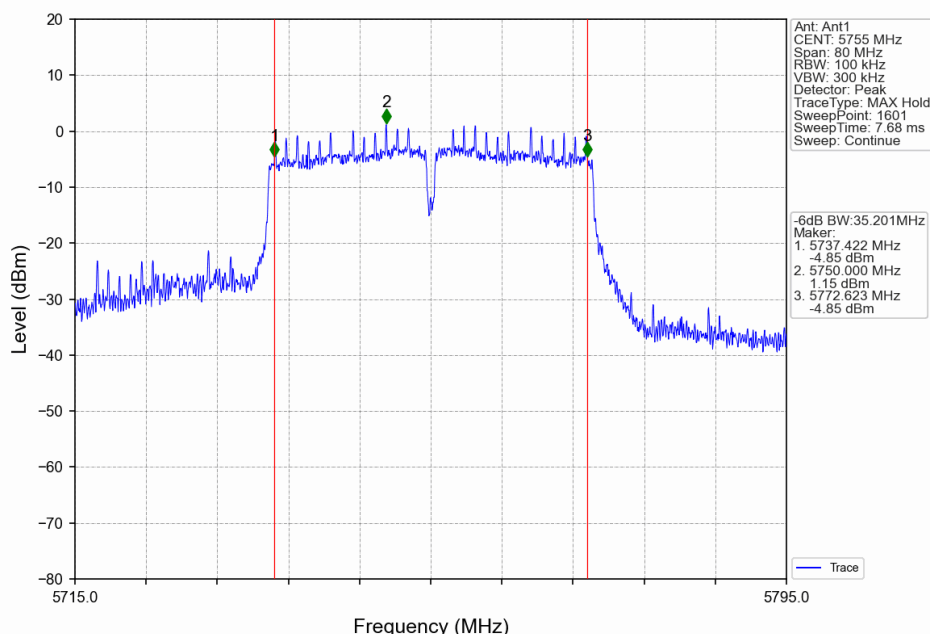
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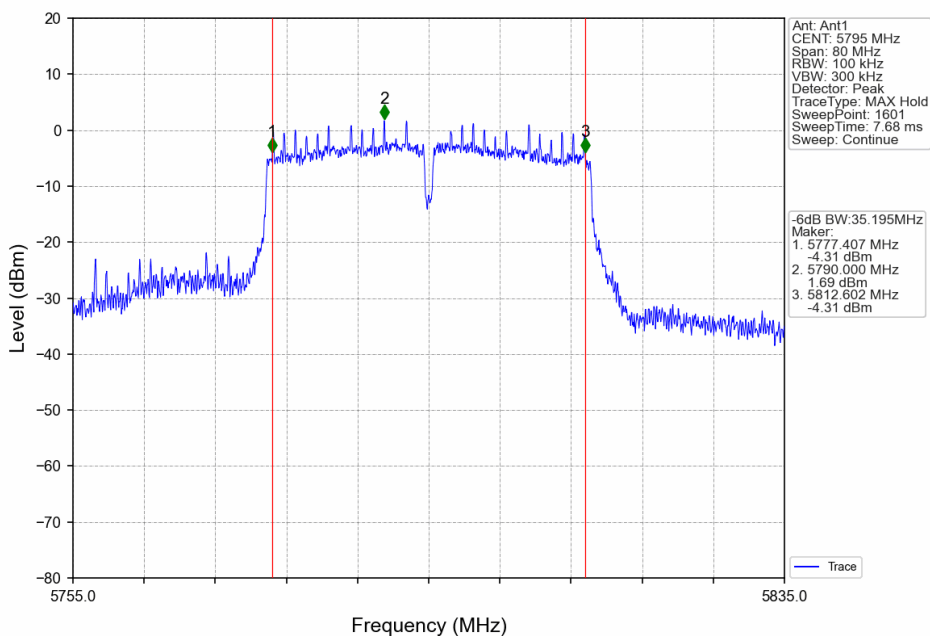
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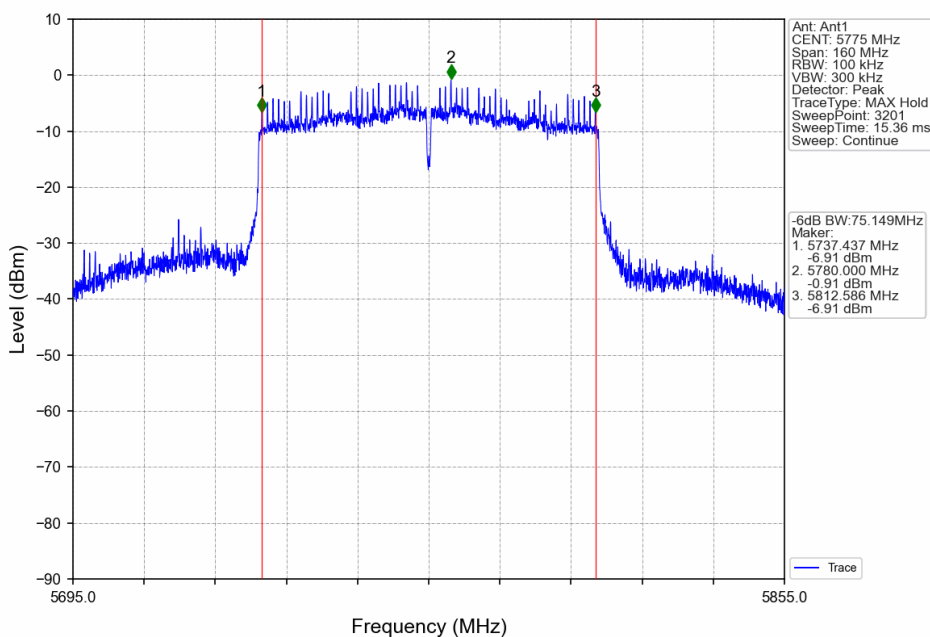
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802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5775MHz_Ant1_NTNV



2.3 26dB BW

2.3.1 Test Result

| Mode | TX Type | Frequency (MHz) | ANT | 26dB Bandwidth (MHz) | | Verdict |
|------------------|---------|-----------------|-----|----------------------|-------|---------|
| | | | | Result | Limit | |
| 802.11a | MIMO | 5180 | 1 | 32.587 | / | Pass |
| | | 5200 | 1 | 32.526 | / | Pass |
| | | 5240 | 1 | 37.698 | / | Pass |
| | | 5260 | 1 | 36.783 | / | Pass |
| | | 5300 | 1 | 38.041 | / | Pass |
| | | 5320 | 1 | 33.627 | / | Pass |
| | | 5500 | 1 | 28.608 | / | Pass |
| | | 5580 | 1 | 25.624 | / | Pass |
| 802.11n (HT20) | MIMO | 5700 | 1 | 21.171 | / | Pass |
| | | 5180 | 1 | 30.066 | / | Pass |
| | | 5200 | 1 | 31.415 | / | Pass |
| | | 5240 | 1 | 30.926 | / | Pass |
| | | 5260 | 1 | 40.279 | / | Pass |
| | | 5300 | 1 | 35.765 | / | Pass |
| | | 5320 | 1 | 34.056 | / | Pass |
| | | 5500 | 1 | 41.932 | / | Pass |
| 802.11n (HT40) | MIMO | 5580 | 1 | 21.581 | / | Pass |
| | | 5700 | 1 | 26.208 | / | Pass |
| | | 5190 | 1 | 59.079 | / | Pass |
| | | 5230 | 1 | 57.625 | / | Pass |
| | | 5270 | 1 | 59.440 | / | Pass |
| | | 5310 | 1 | 99.015 | / | Pass |
| | | 5510 | 1 | 71.778 | / | Pass |
| | | 5550 | 1 | 58.853 | / | Pass |
| 802.11ac (VHT20) | MIMO | 5670 | 1 | 51.103 | / | Pass |
| | | 5180 | 1 | 30.018 | / | Pass |
| | | 5200 | 1 | 30.865 | / | Pass |
| | | 5240 | 1 | 30.031 | / | Pass |
| | | 5260 | 1 | 41.429 | / | Pass |
| | | 5300 | 1 | 35.720 | / | Pass |
| | | 5320 | 1 | 32.273 | / | Pass |
| | | 5500 | 1 | 41.581 | / | Pass |
| 802.11ac (VHT40) | MIMO | 5580 | 1 | 25.995 | / | Pass |



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| | | | | | | |
|---------------------|------|------|---|---------|---|------|
| | | 5700 | 1 | 21.773 | / | Pass |
| 802.11ac (VHT40) | MIMO | 5190 | 1 | 49.068 | / | Pass |
| | | 5230 | 1 | 59.676 | / | Pass |
| | | 5270 | 1 | 59.604 | / | Pass |
| | | 5310 | 1 | 99.346 | / | Pass |
| | | 5510 | 1 | 98.549 | / | Pass |
| | | 5550 | 1 | 54.063 | / | Pass |
| | | 5670 | 1 | 44.237 | / | Pass |
| 802.11ac (VHT80) | MIMO | 5210 | 1 | 105.179 | / | Pass |
| | | 5290 | 1 | 202.670 | / | Pass |
| | | 5530 | 1 | 219.053 | / | Pass |
| | | 5610 | 1 | 101.058 | / | Pass |



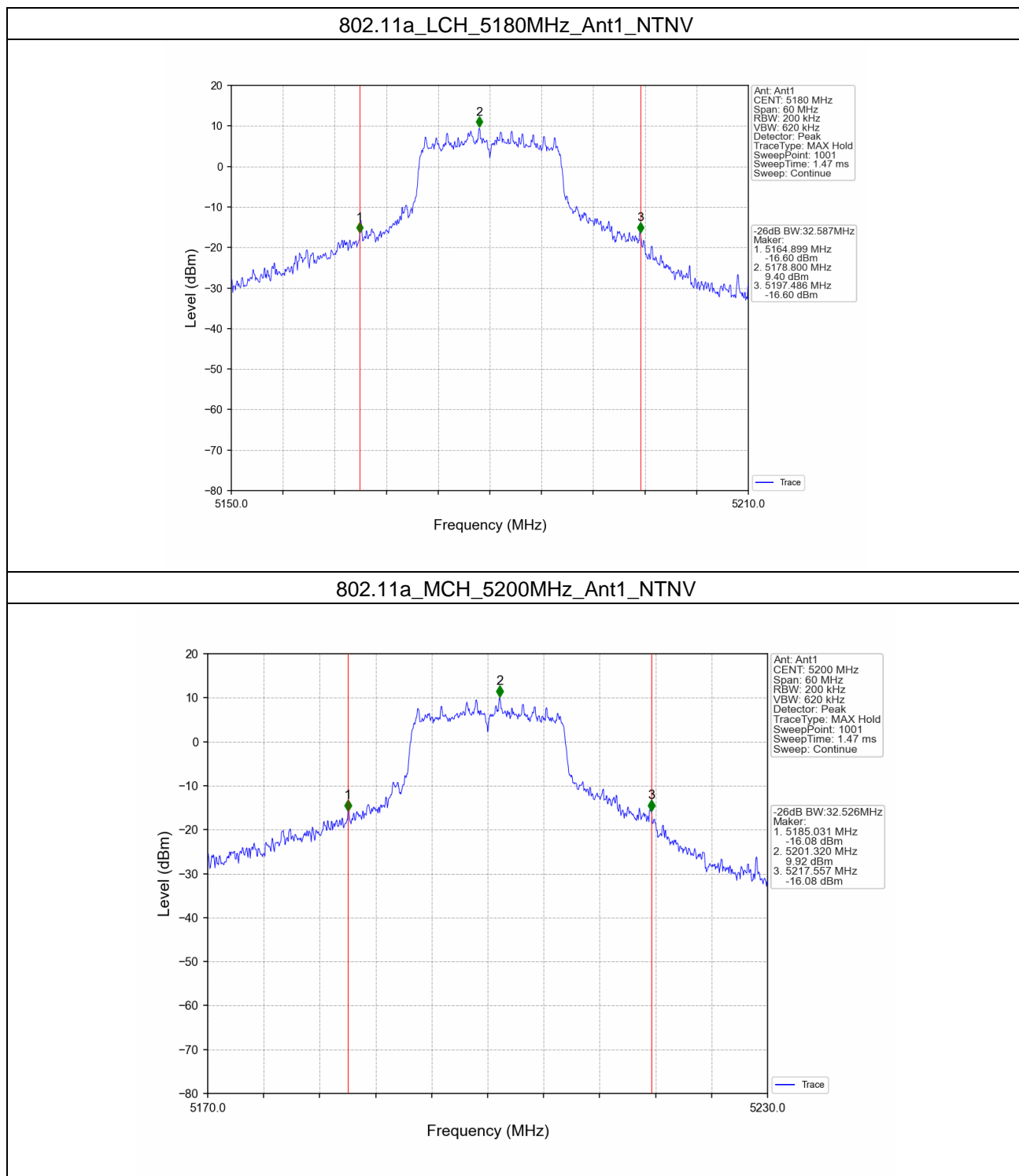
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2.3.2 Test Graph



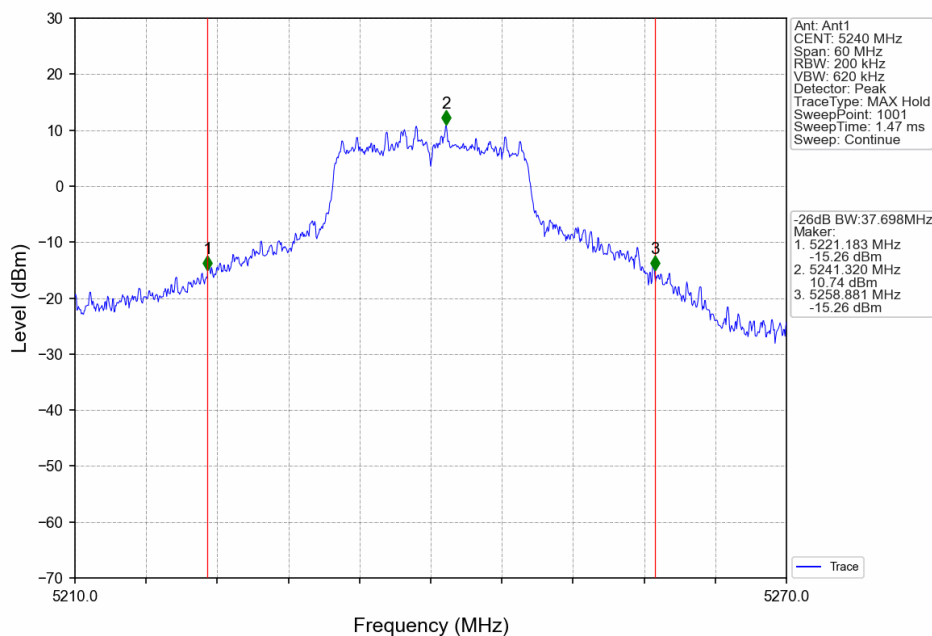
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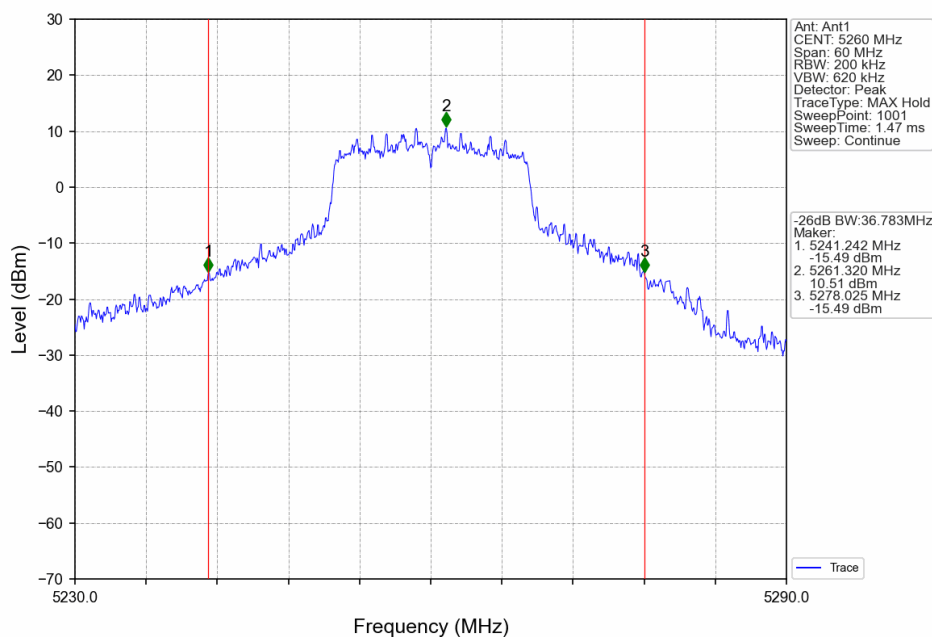
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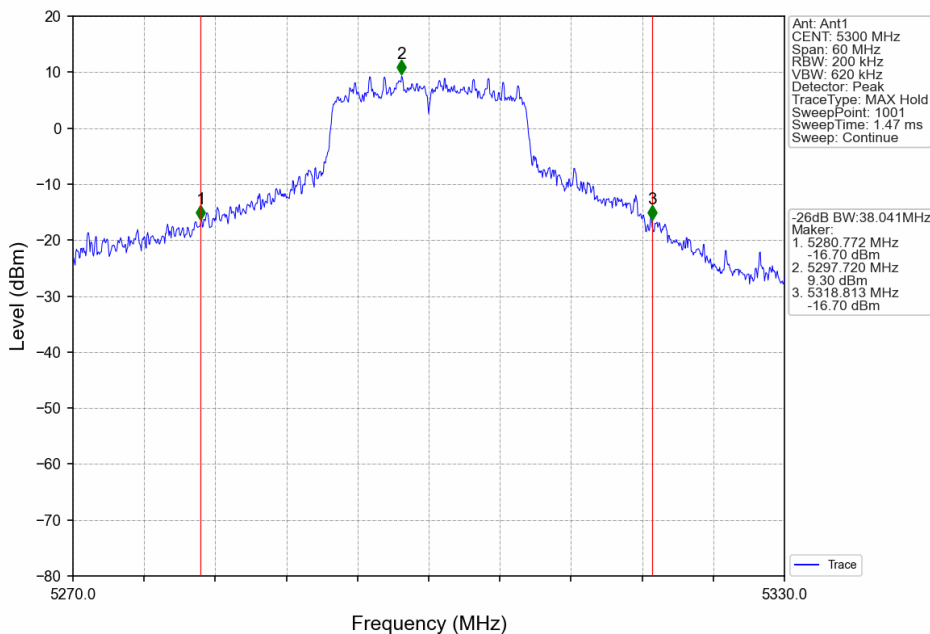
802.11a_HCH_5240MHz_Ant1_NTNV



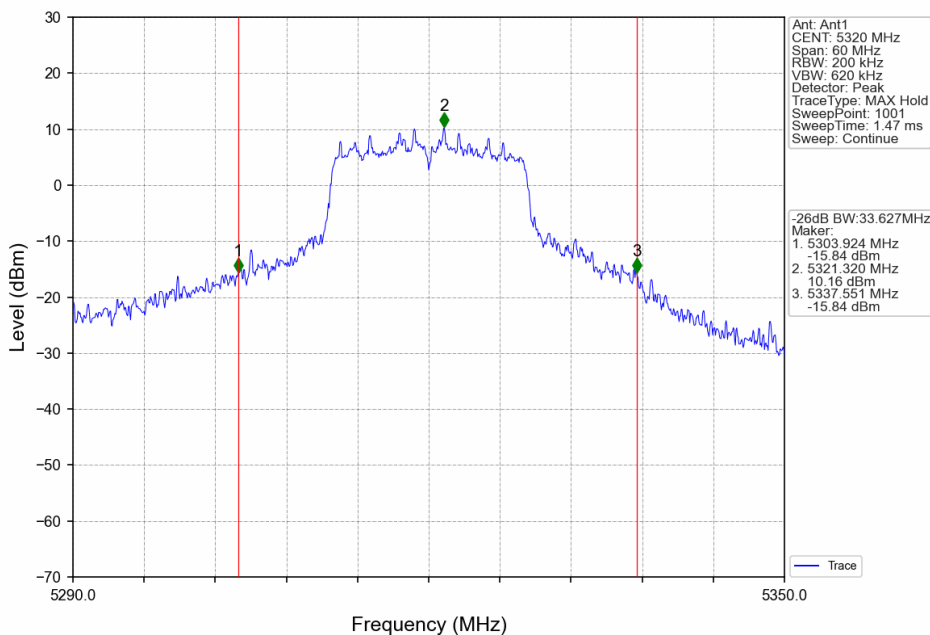
802.11a_LCH_5260MHz_Ant1_NTNV



802.11a_MCH_5300MHz_Ant1_NTNV



802.11a_HCH_5320MHz_Ant1_NTNV



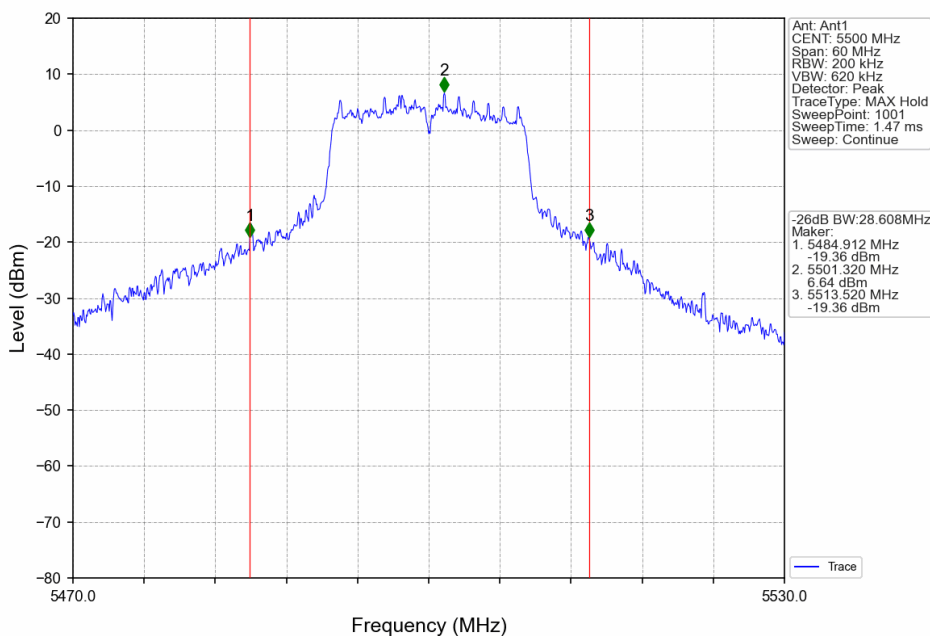
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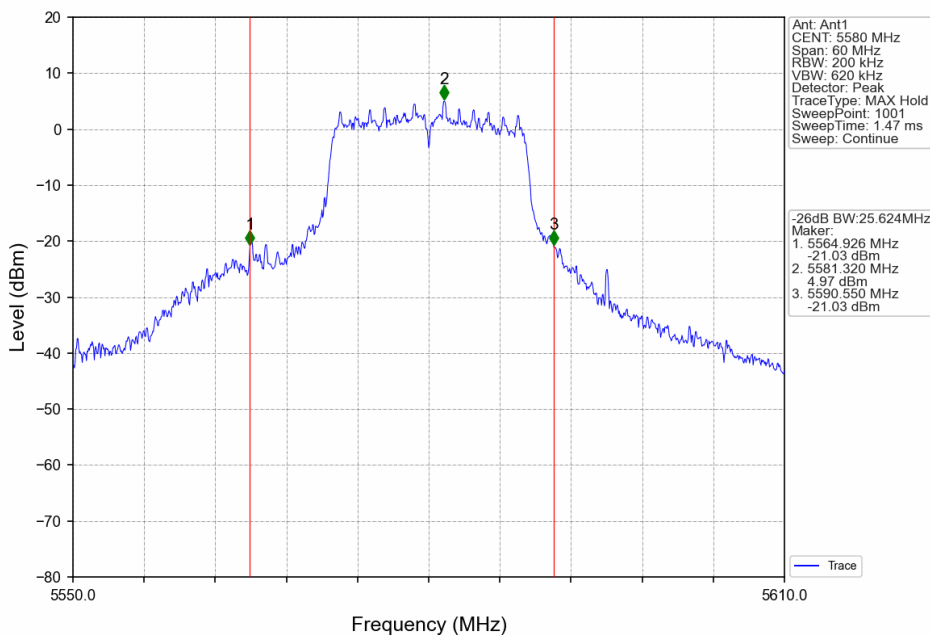
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802.11a_LCH_5500MHz_Ant1_NTNV



802.11a_MCH_5580MHz_Ant1_NTNV



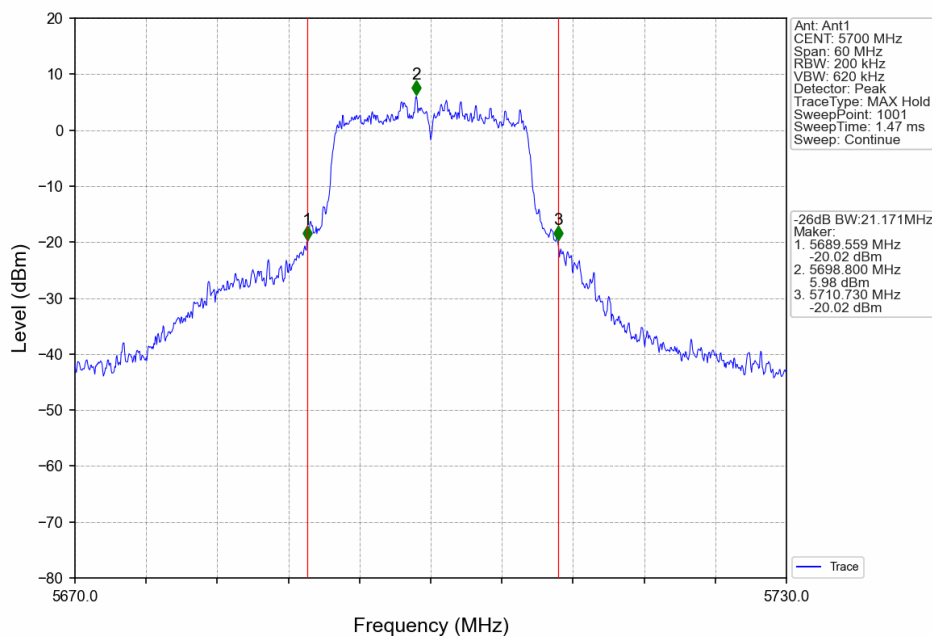
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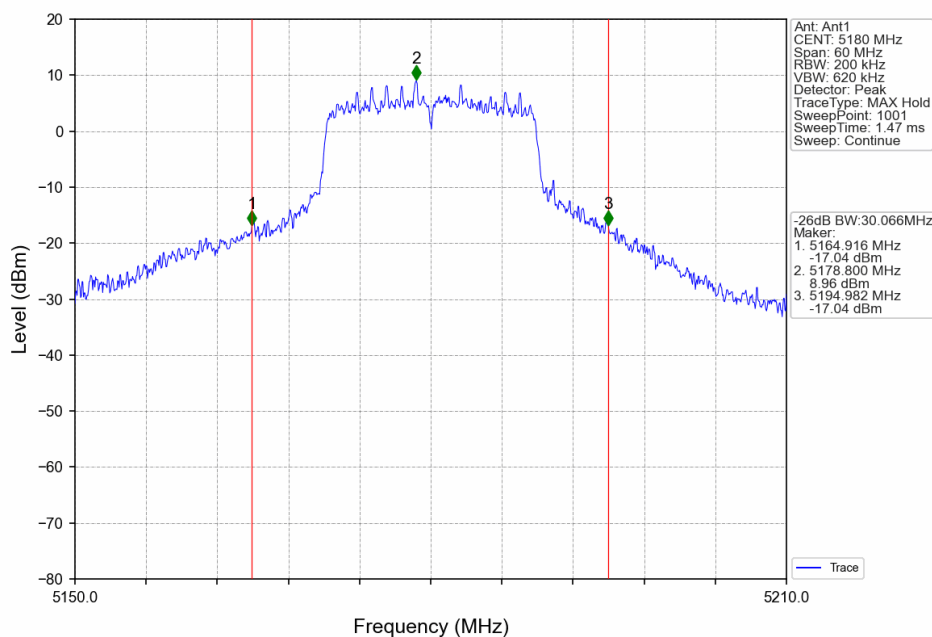
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802.11a_HCH_5700MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



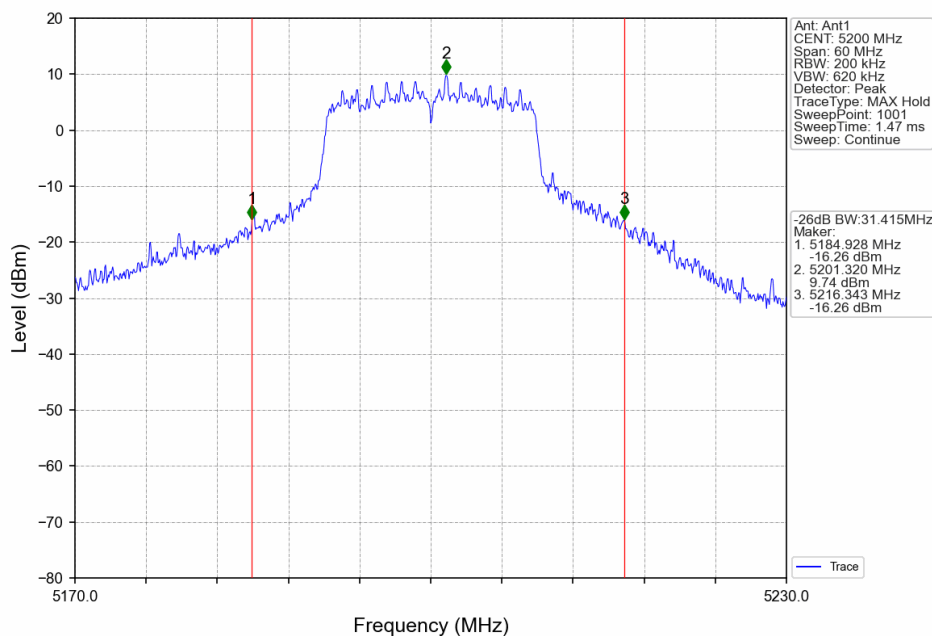
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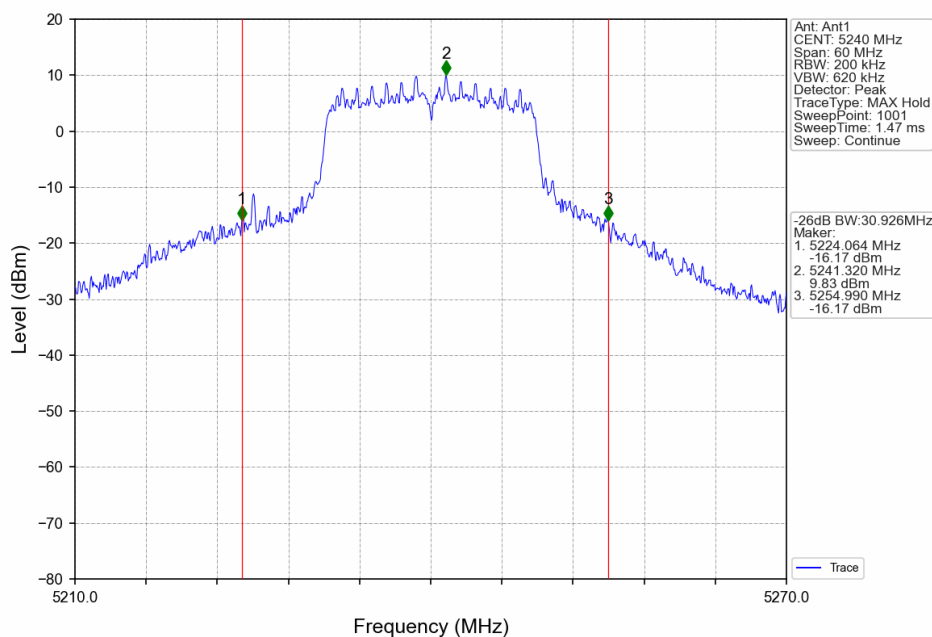
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802.11n(HT20)_MCH_5200MHz_Ant1_NTNV



802.11n(HT20)_HCH_5240MHz_Ant1_NTNV



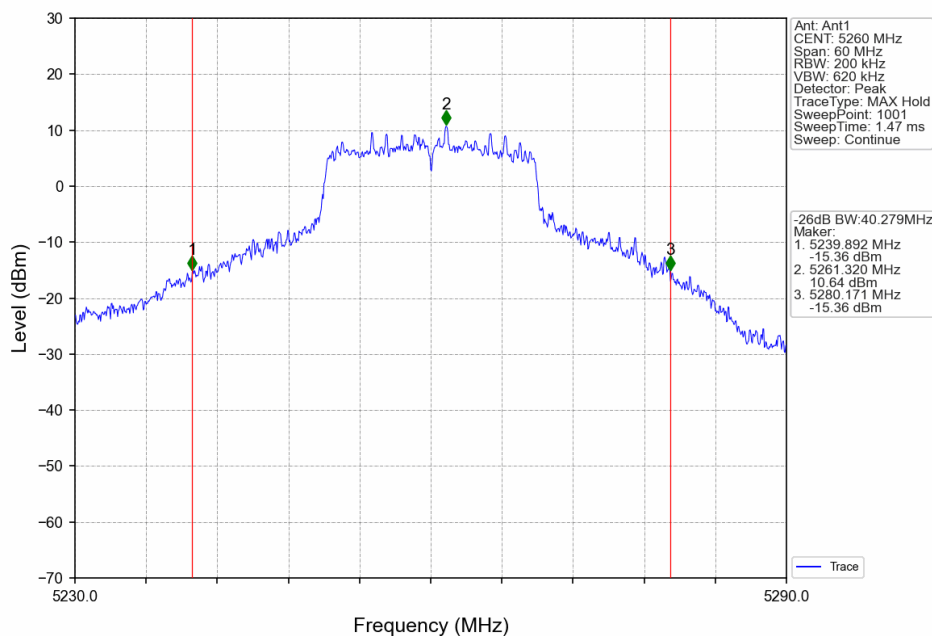
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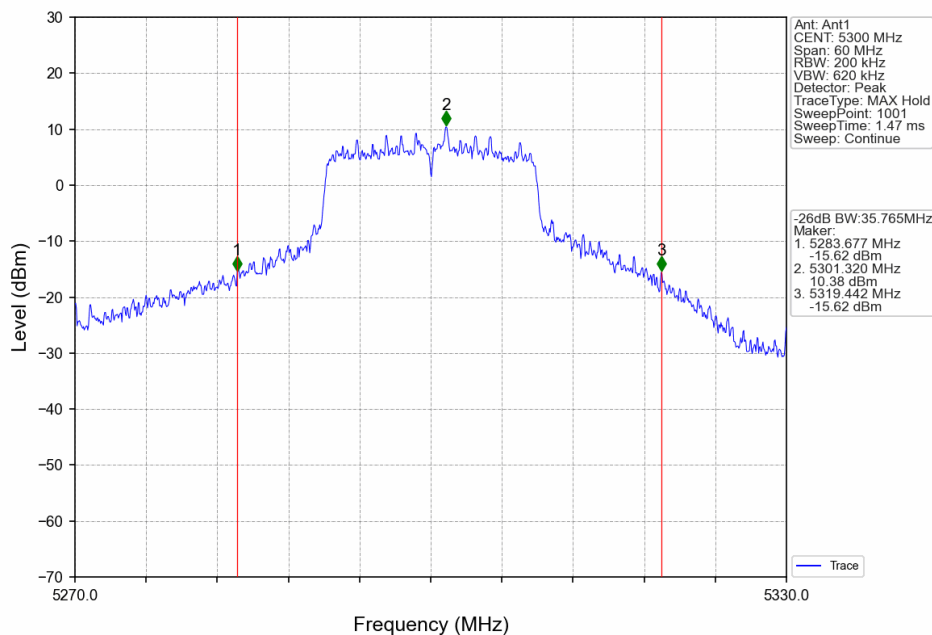
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802.11n(HT20)_LCH_5260MHz_Ant1_NTNV



802.11n(HT20)_MCH_5300MHz_Ant1_NTNV



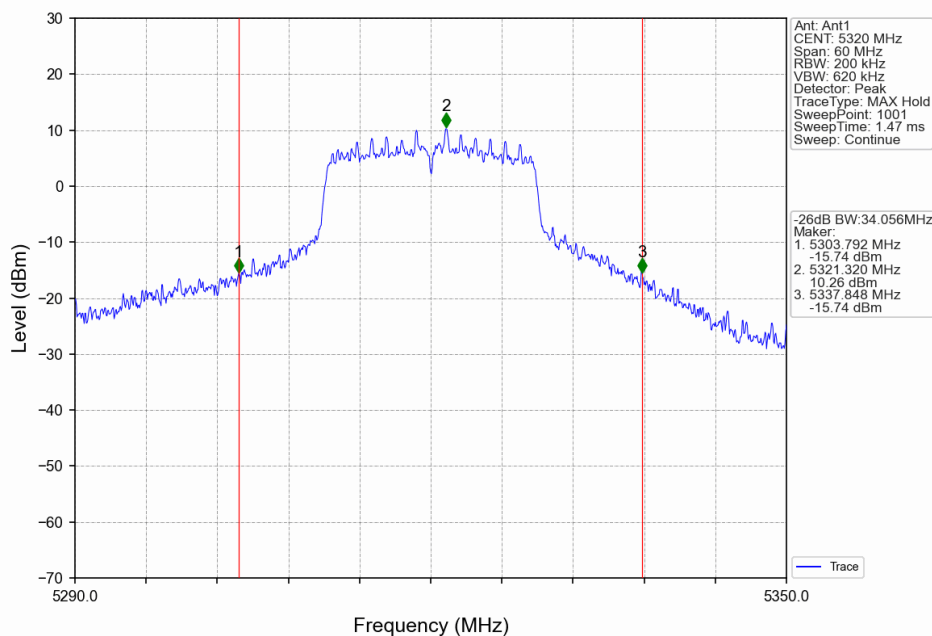
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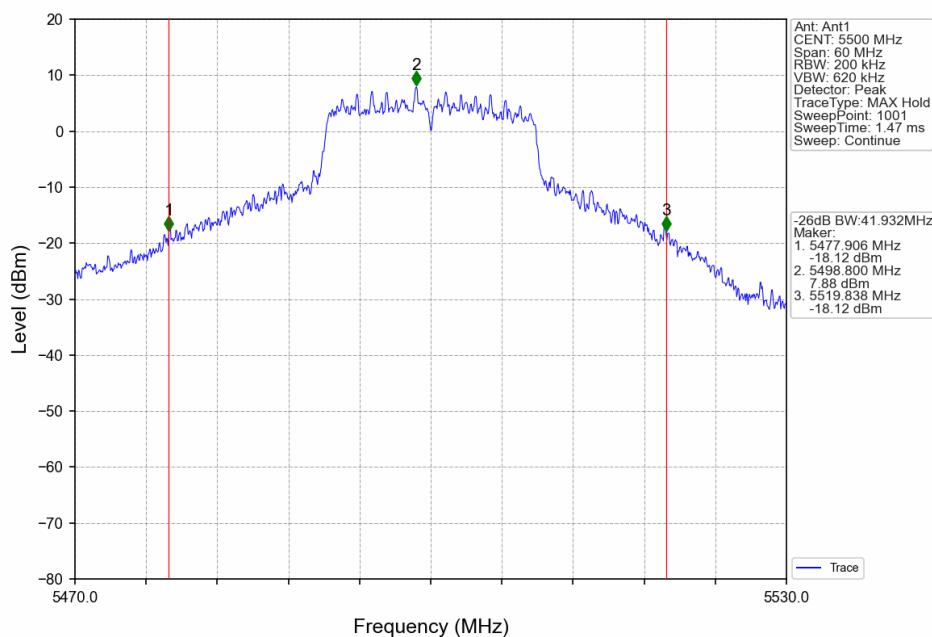
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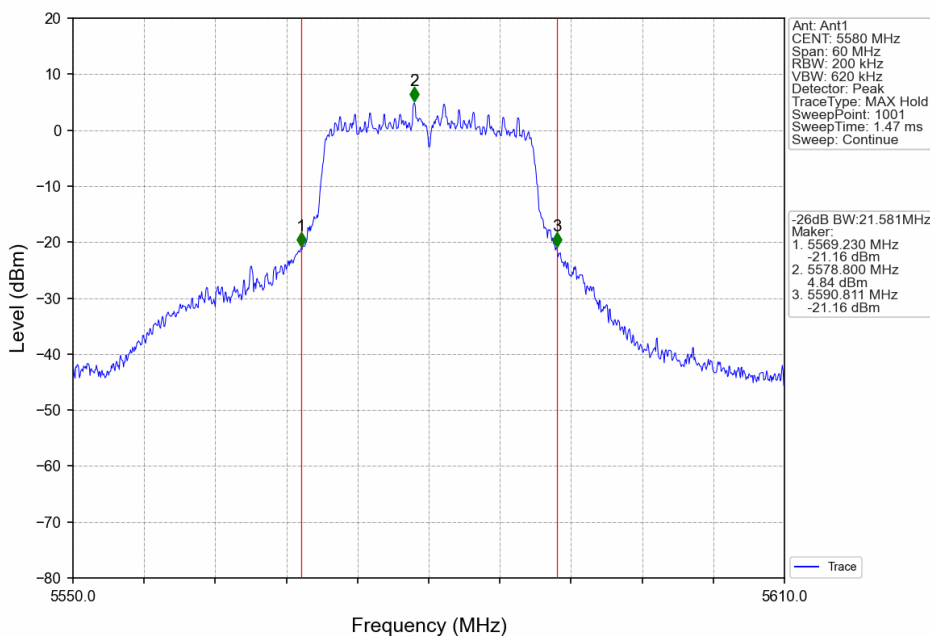
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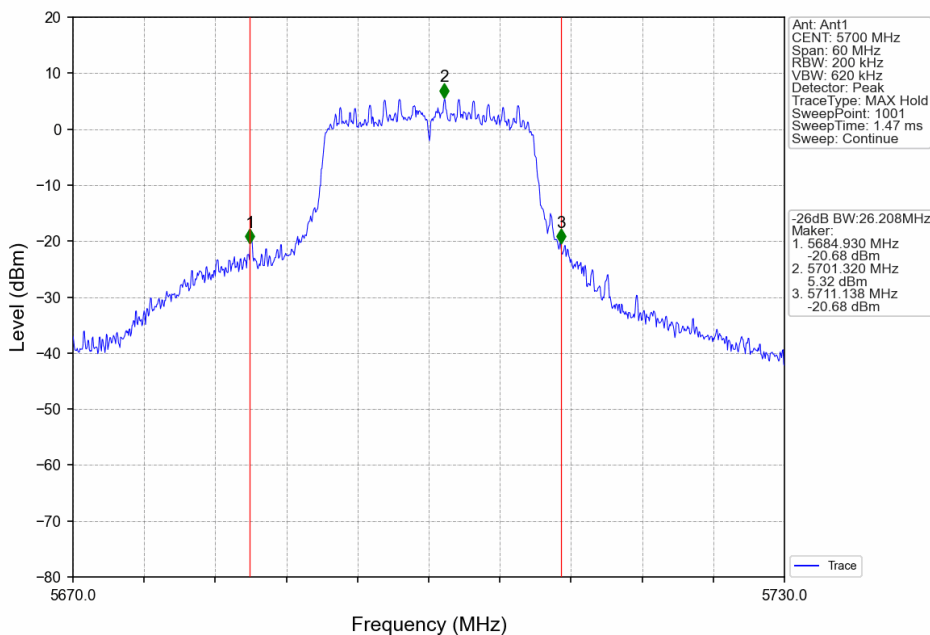
802.11n(HT20)_LCH_5500MHz_Ant1_NTNV



802.11n(HT20)_MCH_5580MHz_Ant1_NTNV



802.11n(HT20)_HCH_5700MHz_Ant1_NTNV



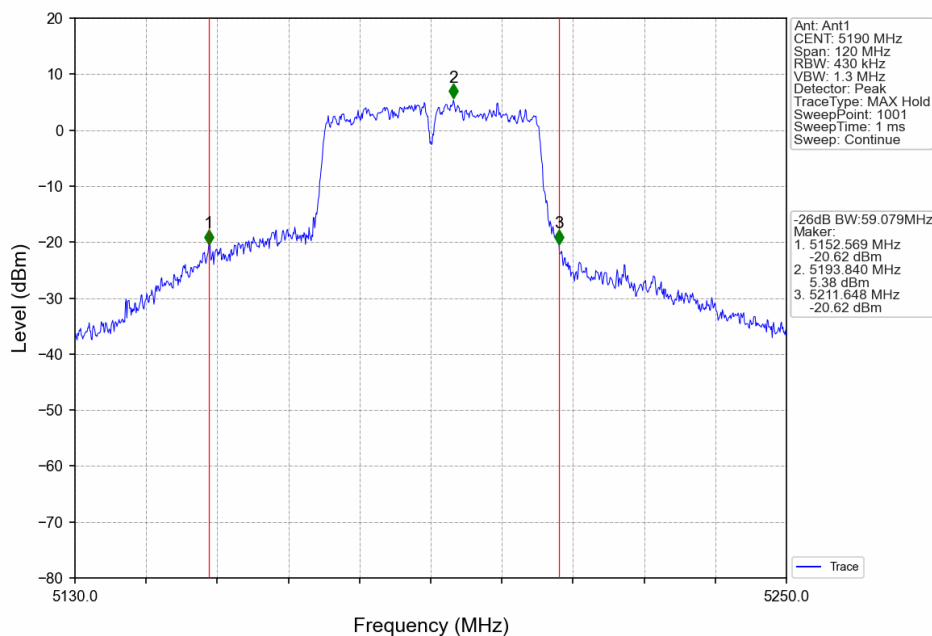
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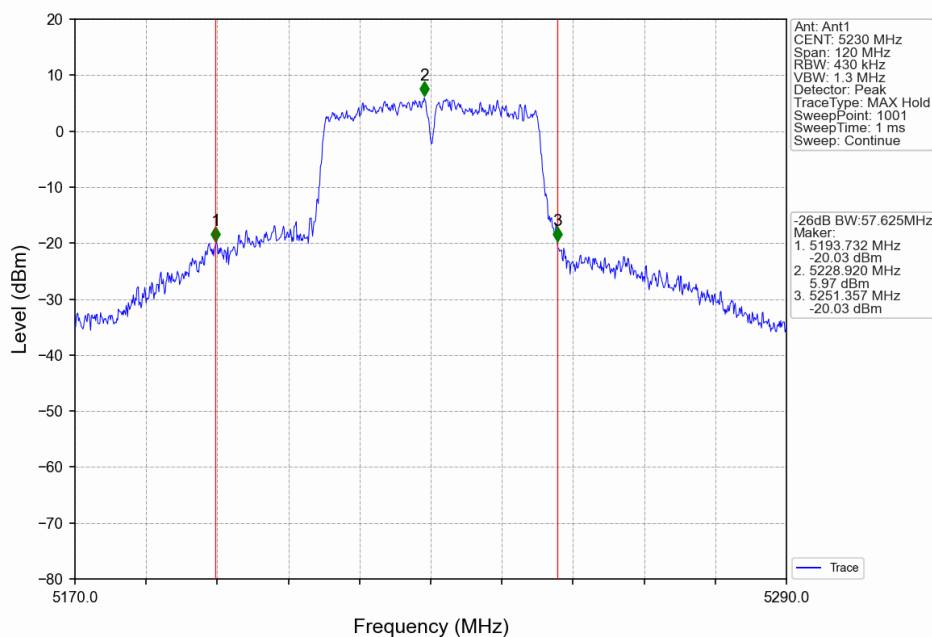
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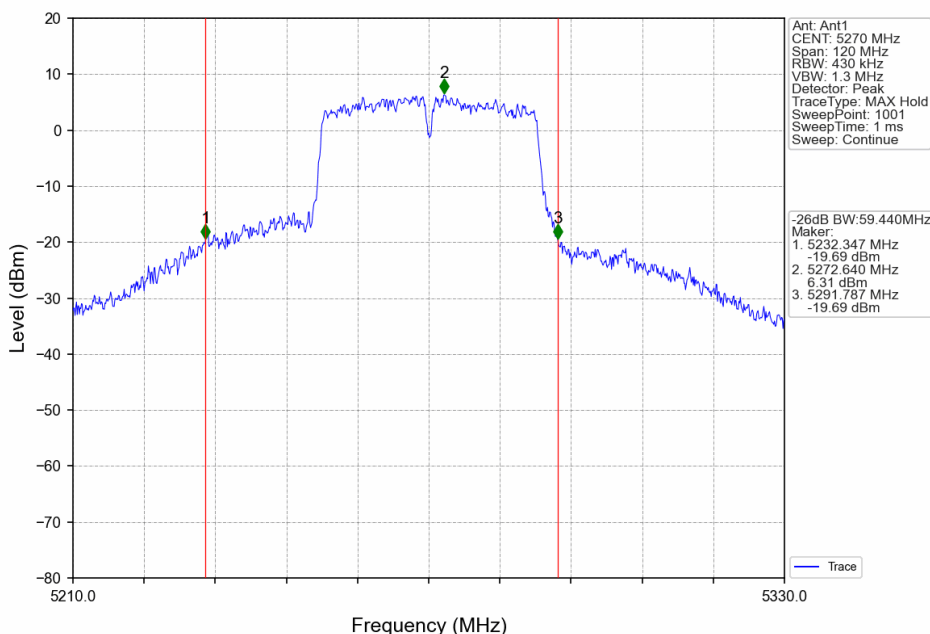
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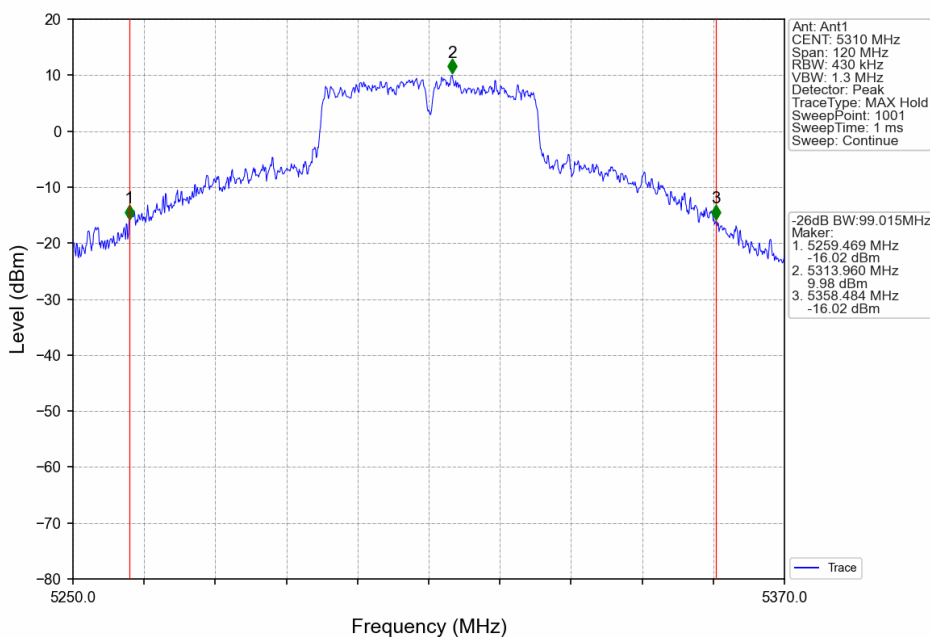
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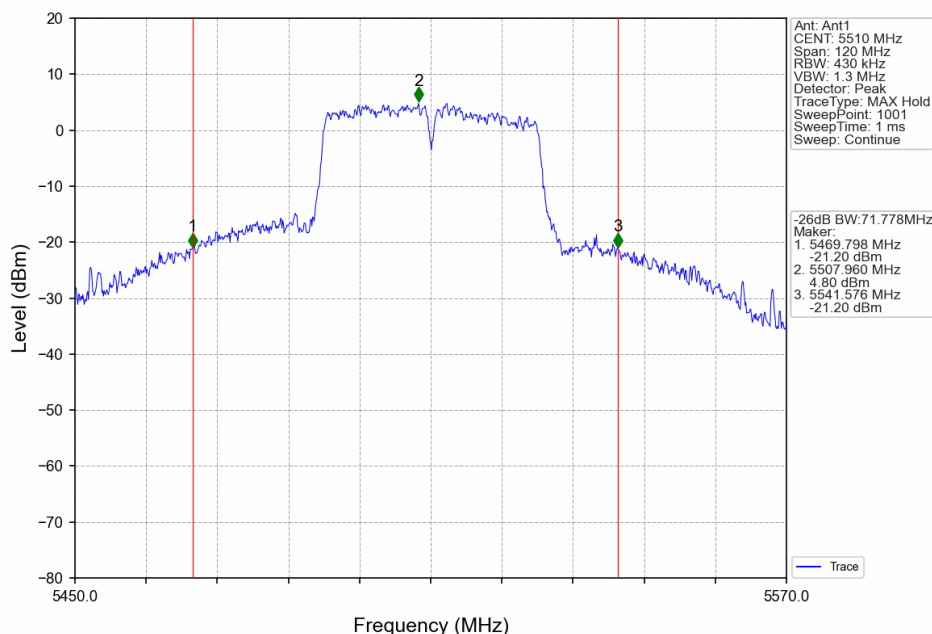
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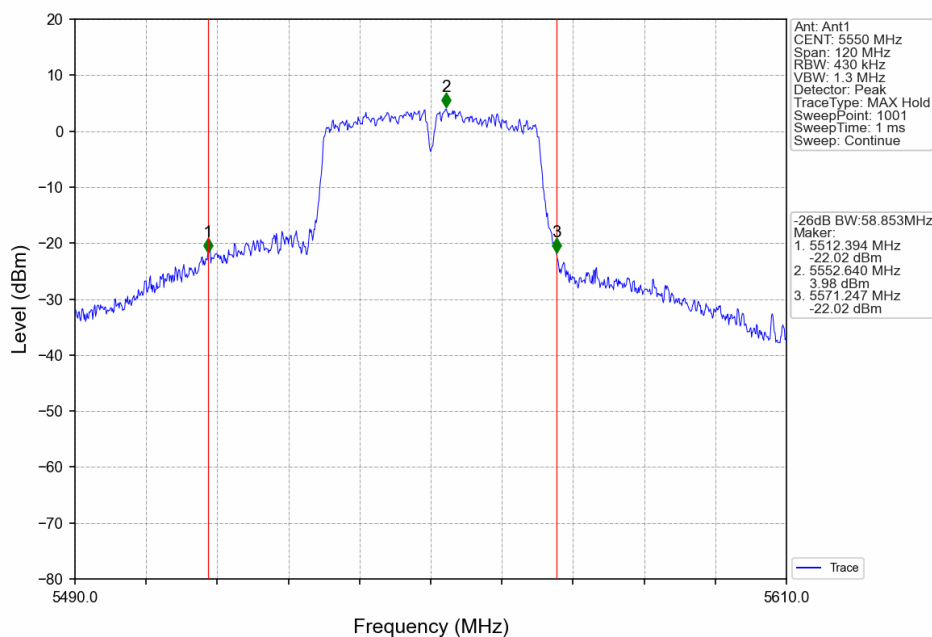
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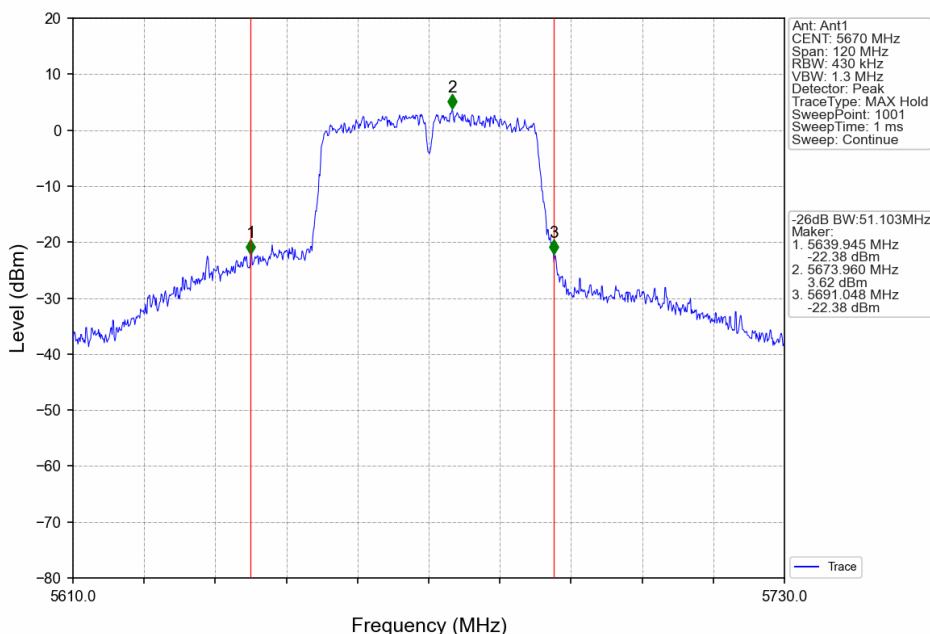
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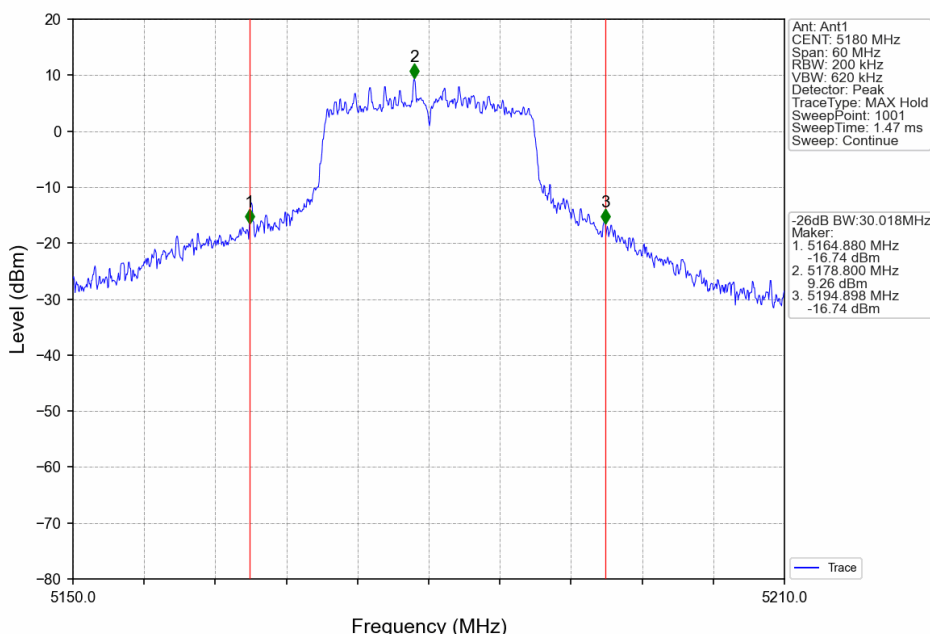
802.11n(HT40)_MCH_5550MHz_Ant1_NTNV



802.11n(HT40)_HCH_5670MHz_Ant1_NTNV



802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



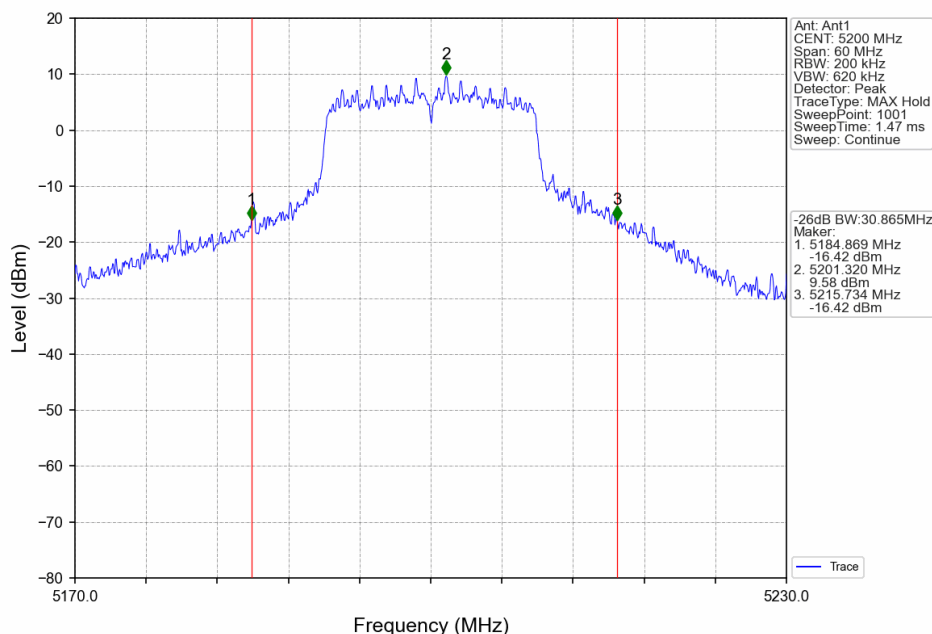
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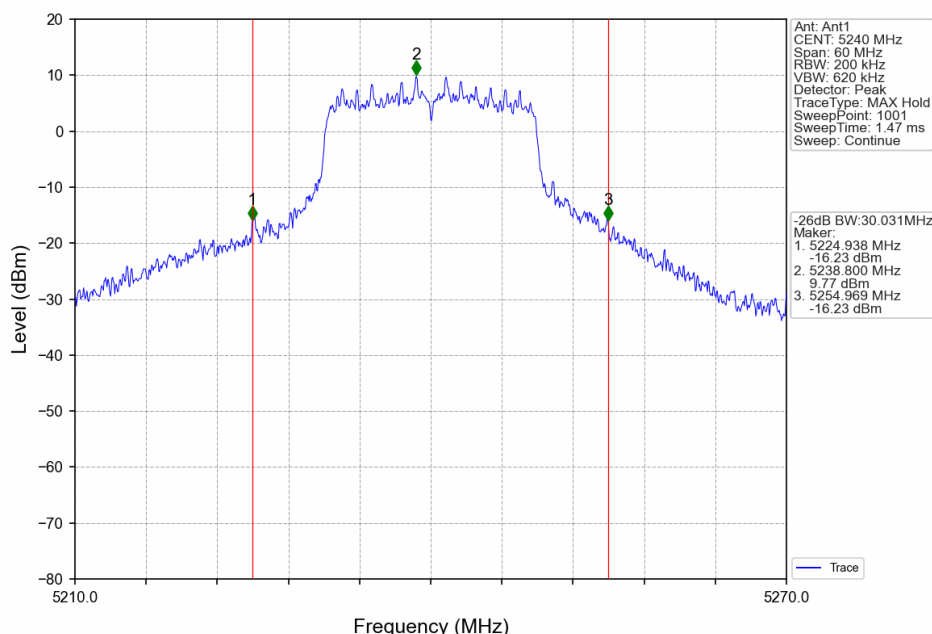
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802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



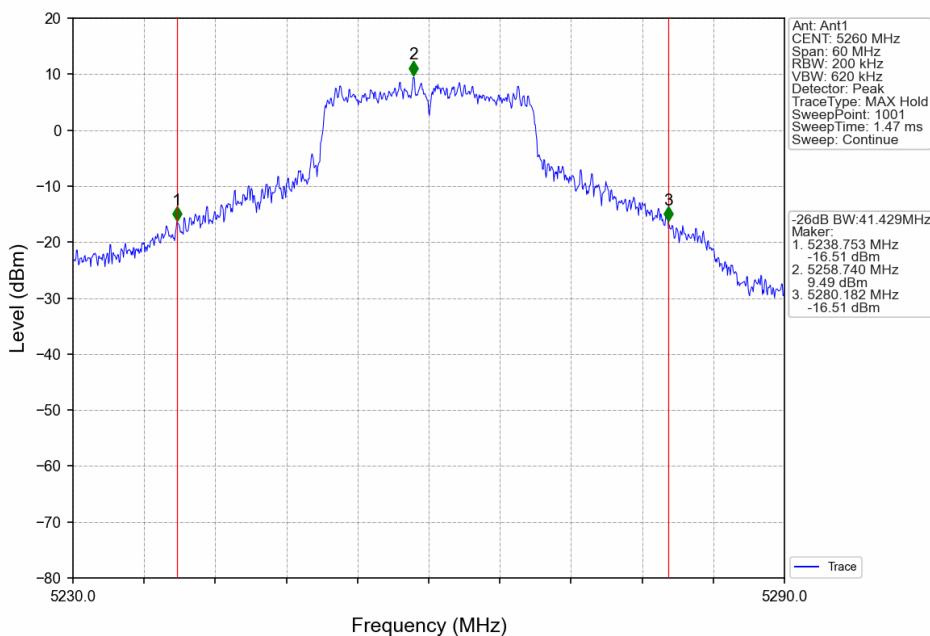
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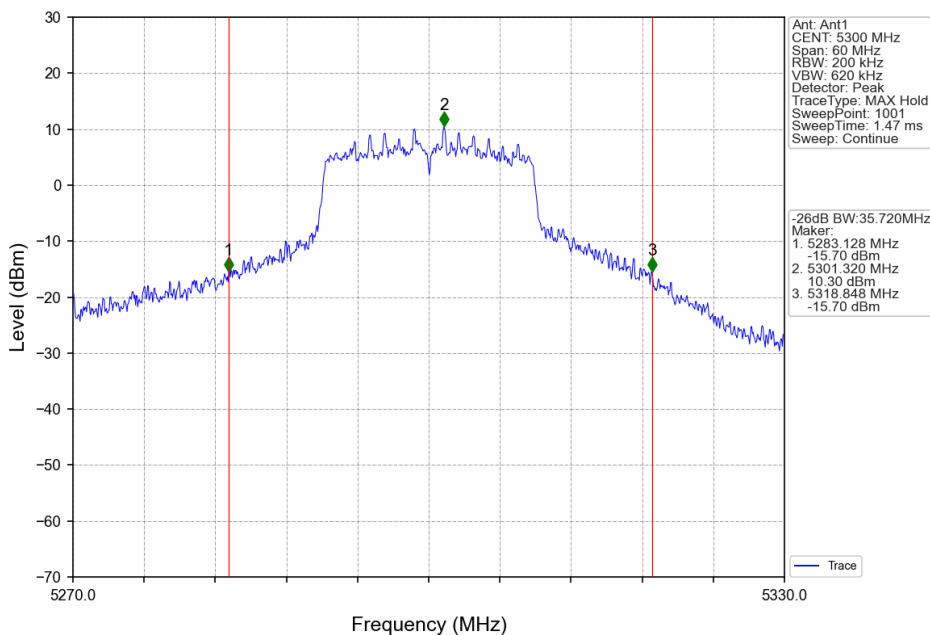
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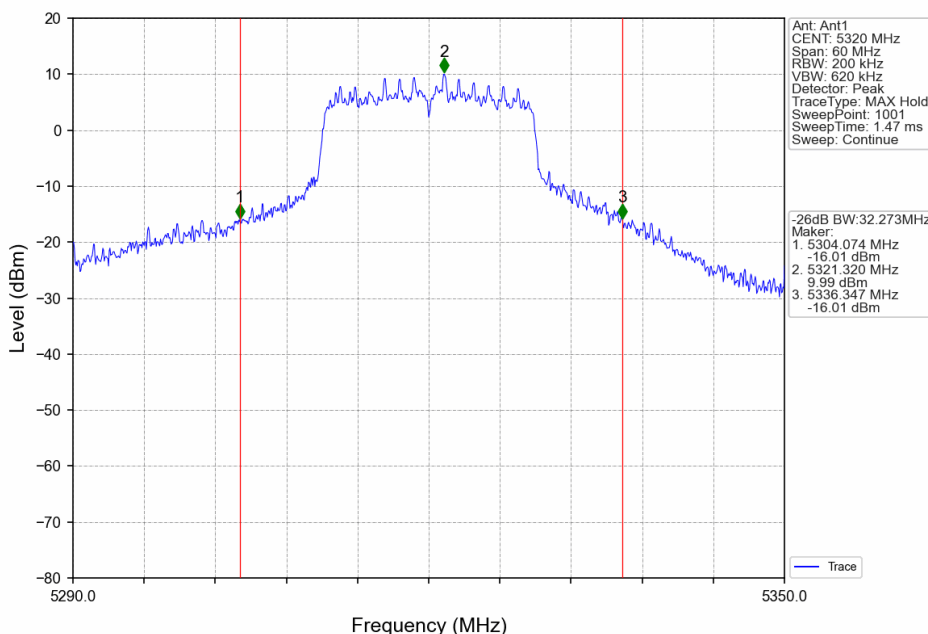
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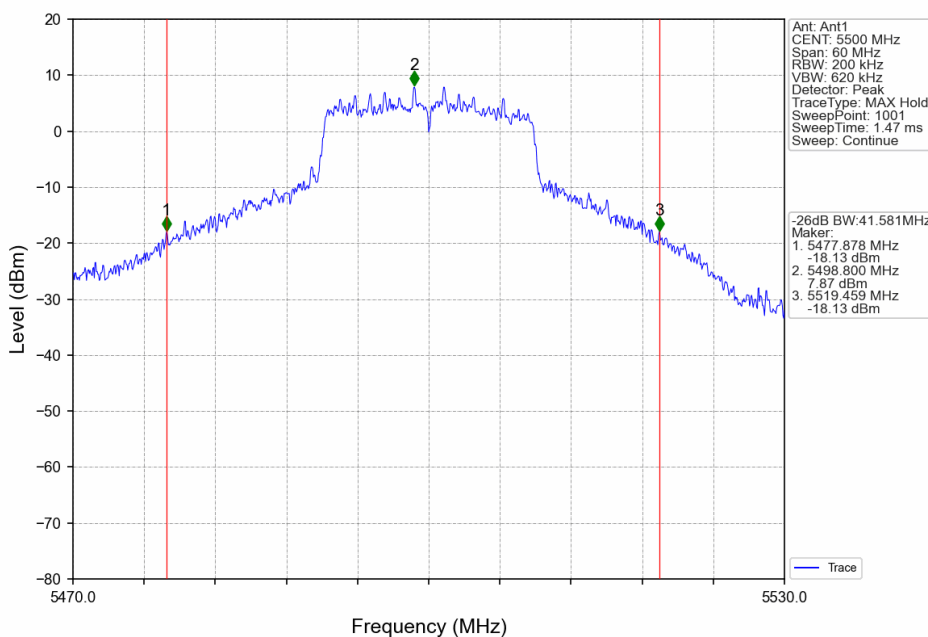
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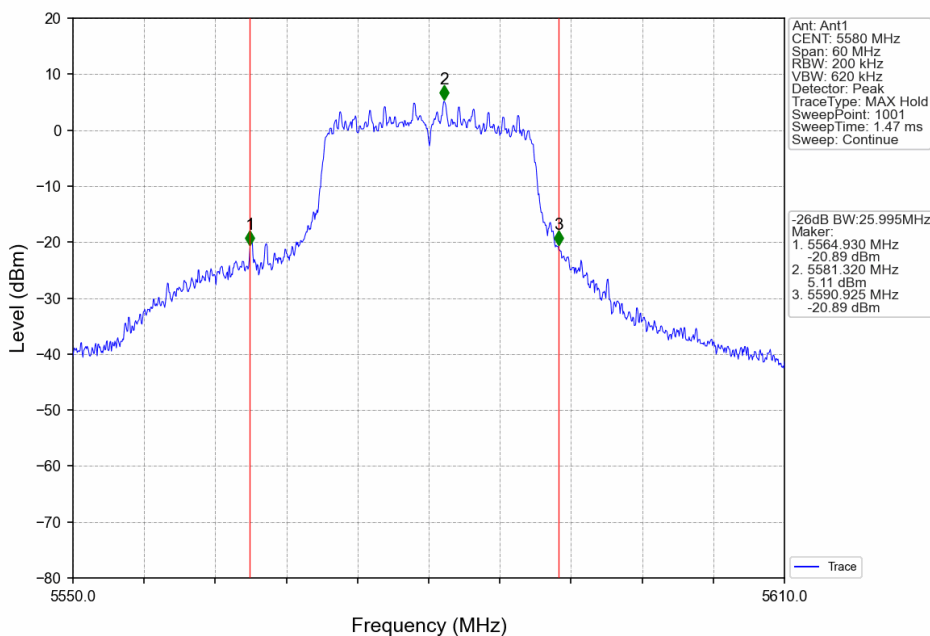
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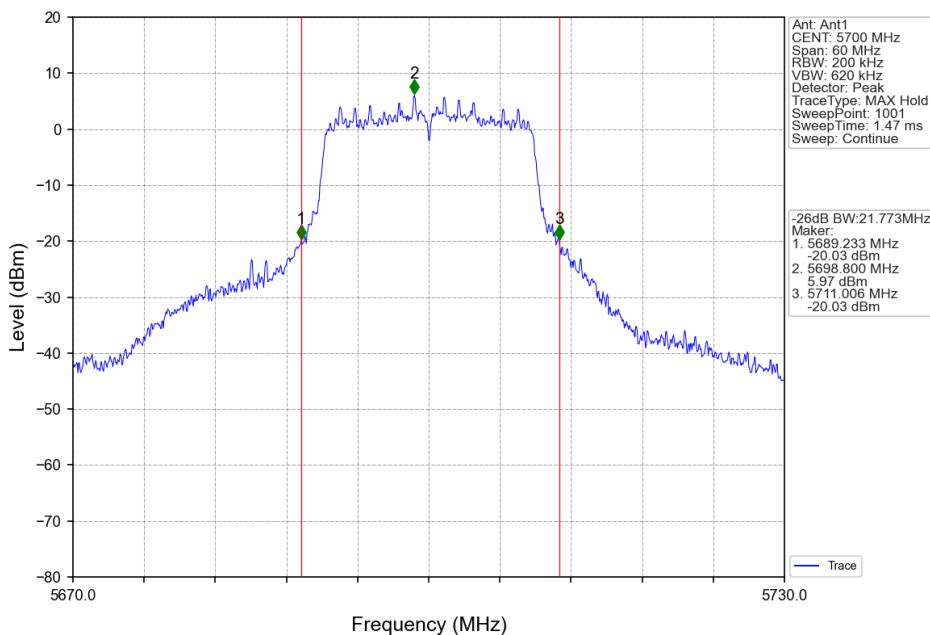
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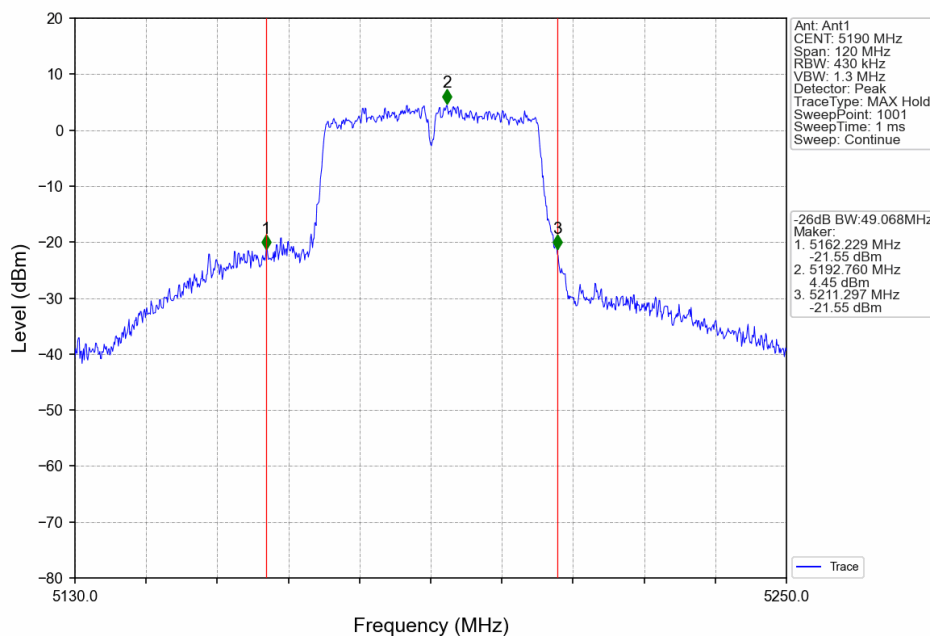
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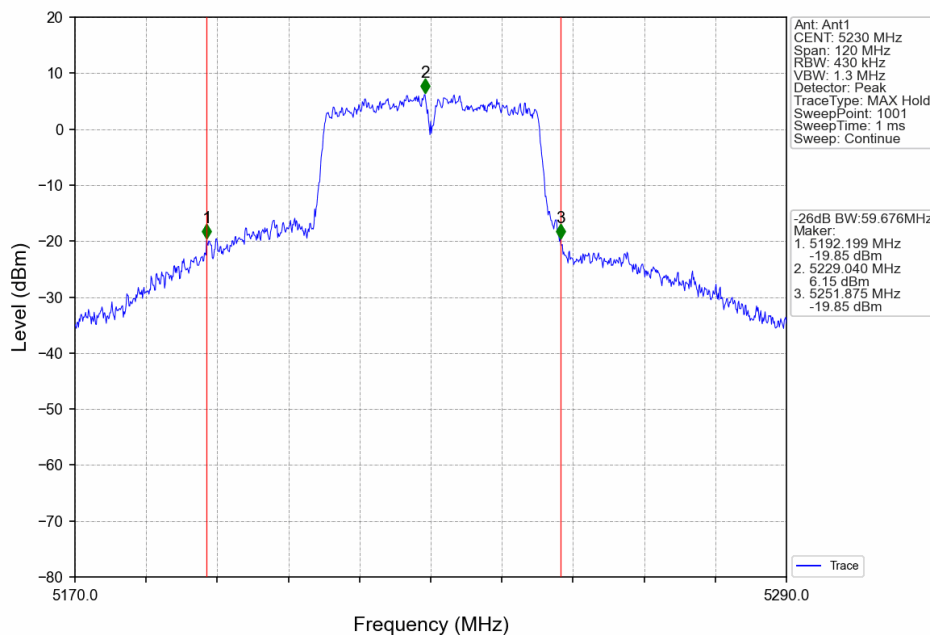
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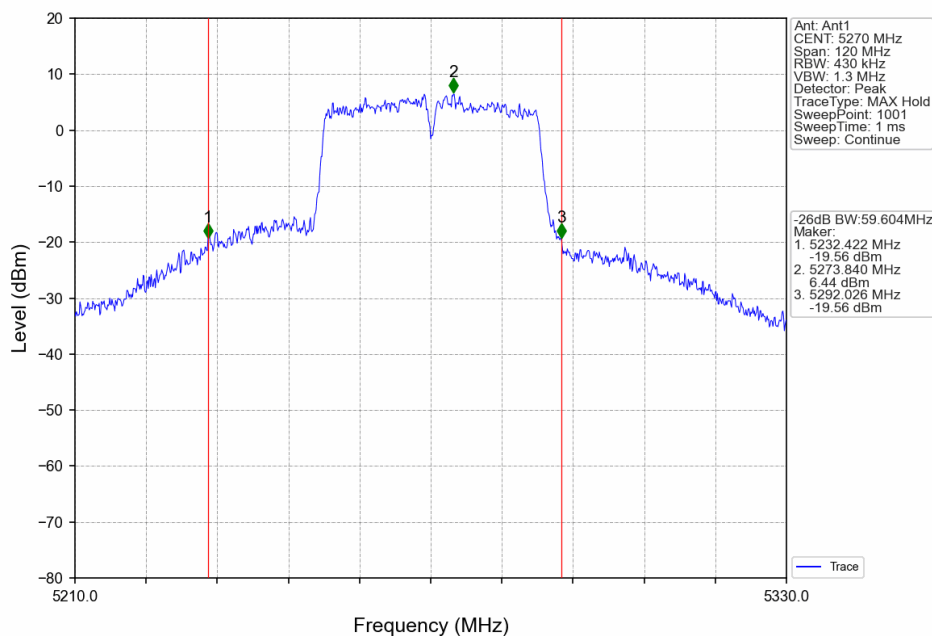
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



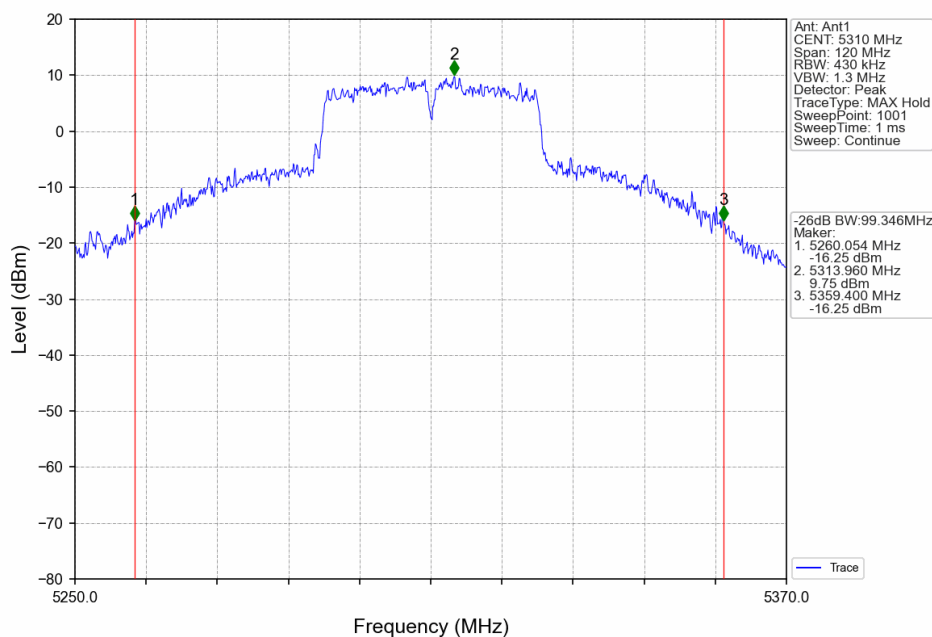
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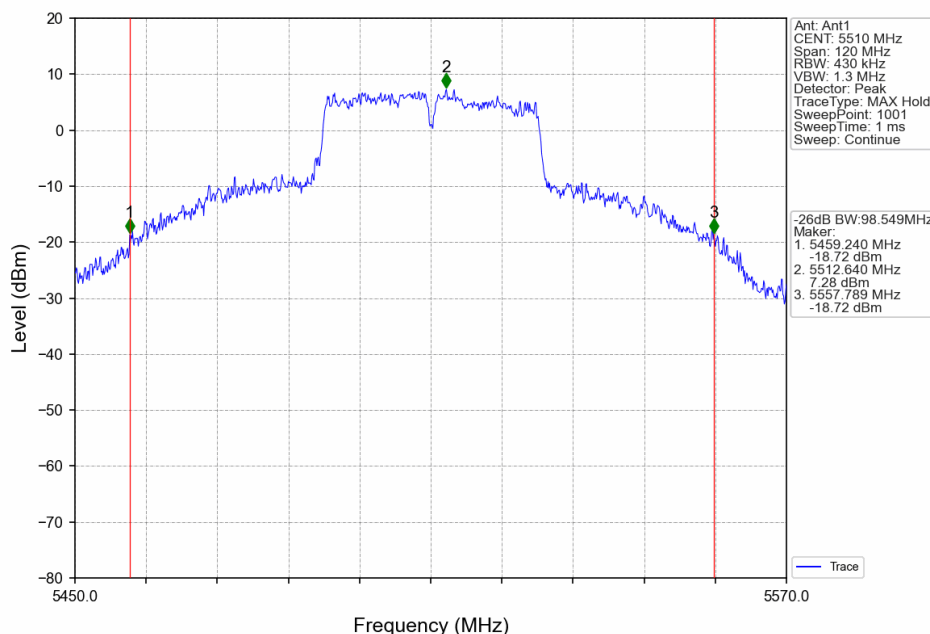
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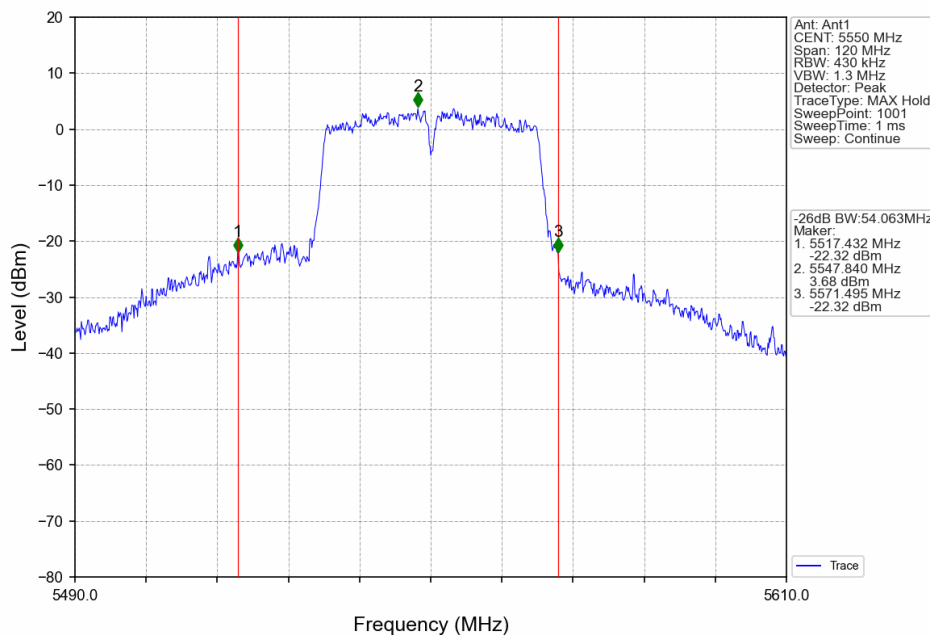
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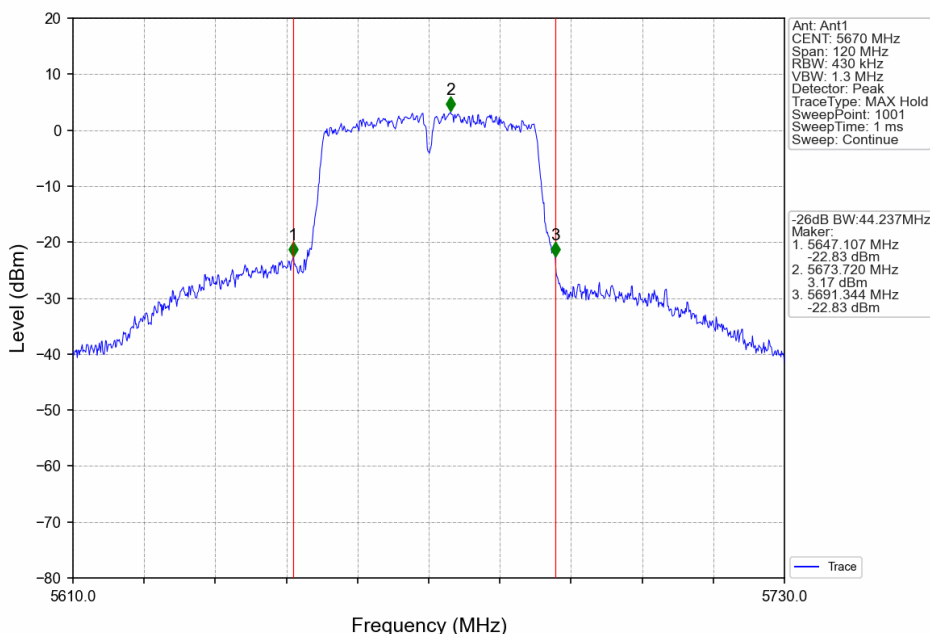
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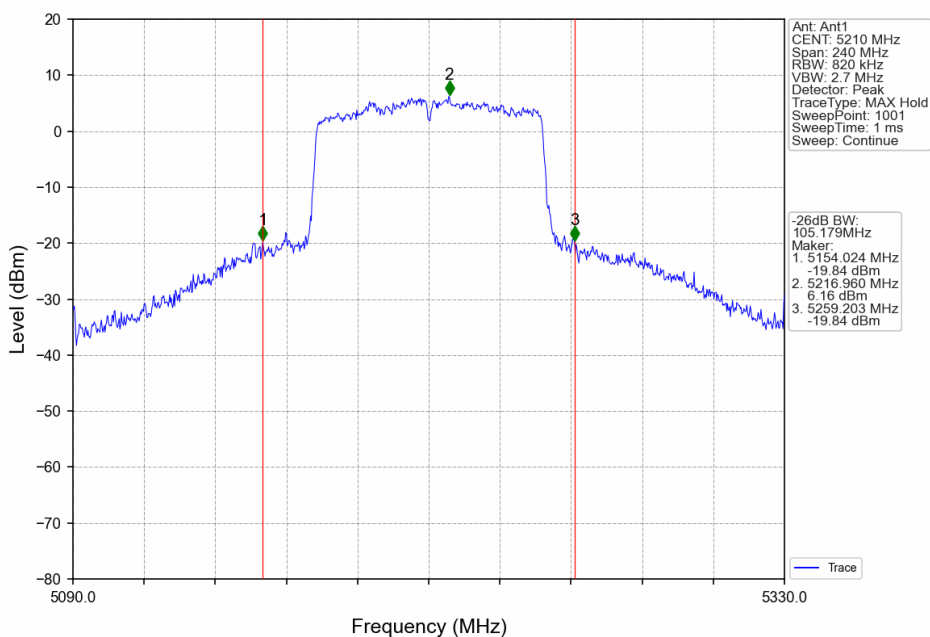
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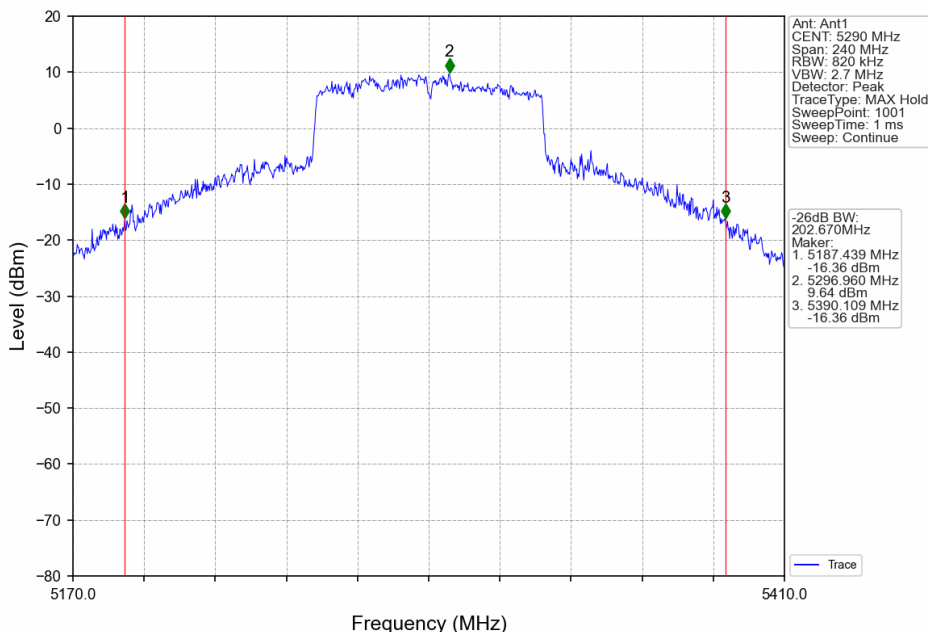
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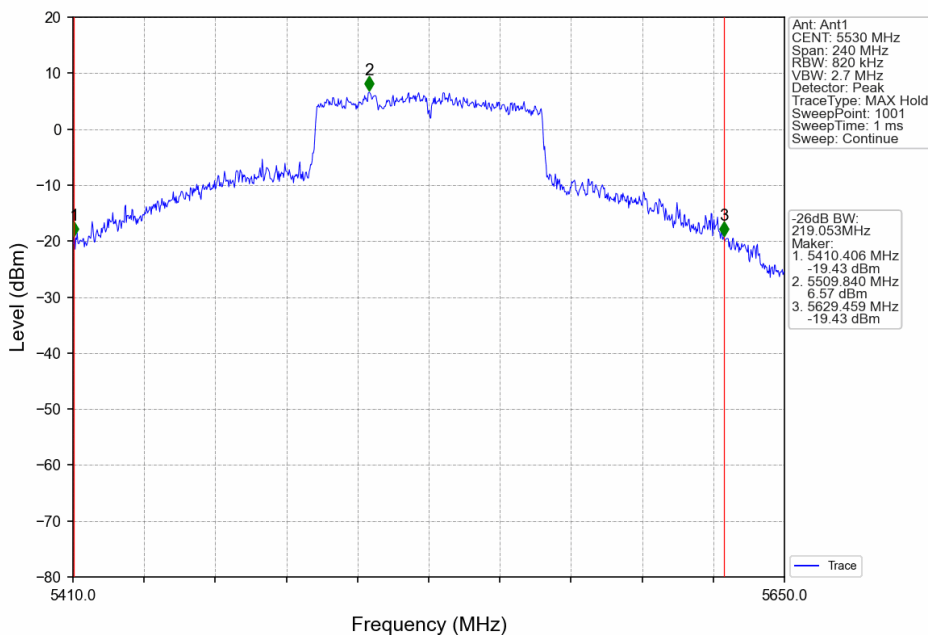
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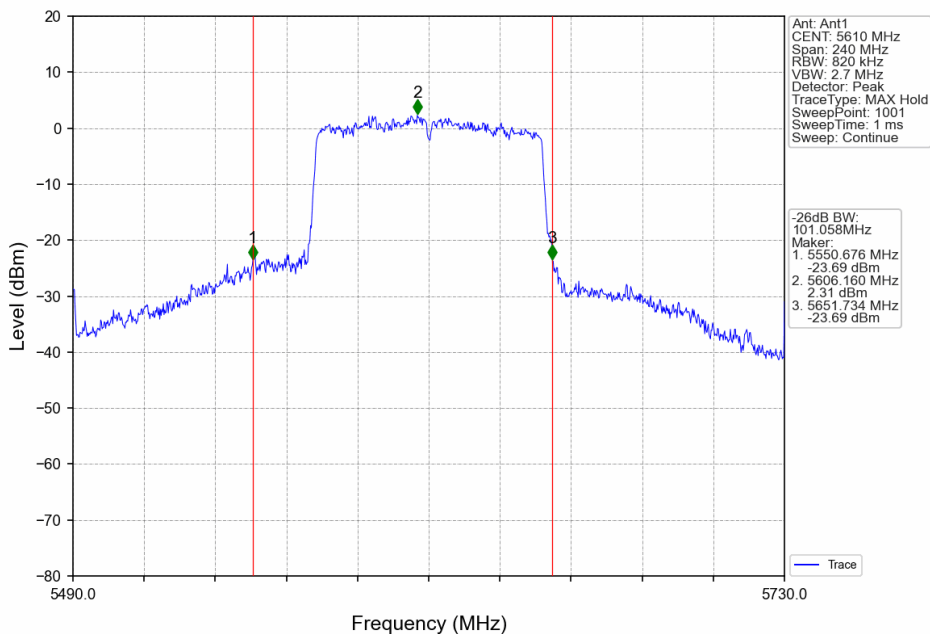
802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV



802.11ac(VHT80)_LCH_5530MHz_Ant1_NTNV



802.11ac(VHT80)_HCH_5610MHz_Ant1_NTNV



3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) | | | | Verdict |
|----------------|---------|-----------------|--|-------|-------|---------|---------|
| | | | ANT1 | ANT2 | MIMO | Limit | |
| 802.11a | MIMO | 5180 | 16.34 | 13.16 | 18.05 | <=23.98 | Pass |
| | | 5200 | 16.39 | 13.64 | 18.24 | <=23.98 | Pass |
| | | 5240 | 16.41 | 14.24 | 18.47 | <=23.98 | Pass |
| | | 5260 | 16.48 | 14.76 | 18.71 | <=23.98 | Pass |
| | | 5300 | 16.36 | 14.86 | 18.68 | <=23.98 | Pass |
| | | 5320 | 16.09 | 14.64 | 18.44 | <=23.98 | Pass |
| | | 5500 | 15.21 | 13.04 | 17.27 | <=23.98 | Pass |
| | | 5580 | 14.22 | 12.38 | 16.41 | <=23.98 | Pass |
| | | 5700 | 15.12 | 13.60 | 17.44 | <=23.98 | Pass |
| | | 5745 | 14.09 | 16.83 | 18.68 | <=30 | Pass |
| | | 5785 | 15.05 | 17.26 | 19.30 | <=30 | Pass |
| | | 5825 | 14.66 | 17.00 | 19.00 | <=30 | Pass |
| 802.11n (HT20) | MIMO | 5180 | 16.06 | 12.89 | 17.77 | <=23.98 | Pass |
| | | 5200 | 16.26 | 13.52 | 18.11 | <=23.98 | Pass |
| | | 5240 | 16.29 | 14.27 | 18.41 | <=23.98 | Pass |
| | | 5260 | 16.38 | 14.71 | 18.64 | <=23.98 | Pass |
| | | 5300 | 16.24 | 14.82 | 18.60 | <=23.98 | Pass |
| | | 5320 | 15.95 | 14.56 | 18.32 | <=23.98 | Pass |
| | | 5500 | 15.08 | 12.96 | 17.16 | <=23.98 | Pass |
| | | 5580 | 14.18 | 12.33 | 16.36 | <=23.98 | Pass |
| | | 5700 | 14.95 | 13.42 | 17.26 | <=23.98 | Pass |
| | | 5745 | 13.98 | 16.73 | 18.58 | <=30 | Pass |
| | | 5785 | 15.03 | 17.27 | 19.30 | <=30 | Pass |
| | | 5825 | 14.22 | 17.01 | 18.85 | <=30 | Pass |
| 802.11n (HT40) | MIMO | 5190 | 14.09 | 10.91 | 15.80 | <=23.98 | Pass |
| | | 5230 | 14.37 | 11.82 | 16.29 | <=23.98 | Pass |
| | | 5270 | 14.37 | 12.64 | 16.60 | <=23.98 | Pass |
| | | 5310 | 14.12 | 12.63 | 16.45 | <=23.98 | Pass |
| | | 5510 | 12.87 | 10.92 | 15.01 | <=23.98 | Pass |
| | | 5550 | 12.37 | 10.54 | 14.56 | <=23.98 | Pass |
| | | 5670 | 12.55 | 11.11 | 14.90 | <=23.98 | Pass |



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| | | | | | | | |
|---------------------|------|------|-------|-------|-------|---------|------|
| | | 5755 | 13.73 | 18.00 | 19.38 | <=30 | Pass |
| | | 5795 | 14.53 | 18.03 | 19.63 | <=30 | Pass |
| 802.11ac (VHT20) | MIMO | 5180 | 16.17 | 12.86 | 17.83 | <=23.98 | Pass |
| | | 5200 | 16.30 | 13.61 | 18.17 | <=23.98 | Pass |
| | | 5240 | 16.33 | 14.27 | 18.43 | <=23.98 | Pass |
| | | 5260 | 16.48 | 14.79 | 18.73 | <=23.98 | Pass |
| | | 5300 | 16.29 | 14.85 | 18.64 | <=23.98 | Pass |
| | | 5320 | 16.01 | 14.61 | 18.38 | <=23.98 | Pass |
| | | 5500 | 15.11 | 13.03 | 17.20 | <=23.98 | Pass |
| | | 5580 | 14.19 | 12.37 | 16.38 | <=23.98 | Pass |
| | | 5700 | 14.93 | 13.45 | 17.26 | <=23.98 | Pass |
| | | 5745 | 13.98 | 16.74 | 18.59 | <=30 | Pass |
| | | 5785 | 15.26 | 17.24 | 19.37 | <=30 | Pass |
| | | 5825 | 14.26 | 17.05 | 18.89 | <=30 | Pass |
| 802.11ac (VHT40) | MIMO | 5190 | 14.08 | 10.96 | 15.80 | <=23.98 | Pass |
| | | 5230 | 14.40 | 11.86 | 16.32 | <=23.98 | Pass |
| | | 5270 | 14.42 | 12.71 | 16.66 | <=23.98 | Pass |
| | | 5310 | 14.15 | 12.70 | 16.50 | <=23.98 | Pass |
| | | 5510 | 12.89 | 10.93 | 15.03 | <=23.98 | Pass |
| | | 5550 | 12.37 | 10.53 | 14.56 | <=23.98 | Pass |
| | | 5670 | 12.55 | 11.08 | 14.89 | <=23.98 | Pass |
| | | 5755 | 13.85 | 18.02 | 19.43 | <=30 | Pass |
| 802.11ac (VHT80) | MIMO | 5795 | 14.31 | 18.18 | 19.67 | <=30 | Pass |
| | | 5210 | 12.27 | 9.35 | 14.06 | <=23.98 | Pass |
| | | 5290 | 12.08 | 10.63 | 14.43 | <=23.98 | Pass |
| | | 5530 | 10.13 | 8.29 | 12.32 | <=23.98 | Pass |
| | | 5610 | 9.92 | 8.21 | 12.16 | <=23.98 | Pass |
| | | 5775 | 13.49 | 17.43 | 18.90 | <=30 | Pass |



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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | Maximum PSD (dBm/MHz) | | | | Verdict |
|------------------|---------|-----------------|-----------------------|-------|------|-------|---------|
| | | | ANT1 | ANT2 | MIMO | Limit | |
| 802.11a | MIMO | 5180 | 5.86 | 2.76 | 7.49 | <=11 | Pass |
| | | 5200 | 5.77 | 3.04 | 7.59 | <=11 | Pass |
| | | 5240 | 5.82 | 3.75 | 7.89 | <=11 | Pass |
| | | 5260 | 5.94 | 4.19 | 8.04 | <=11 | Pass |
| | | 5300 | 5.70 | 4.33 | 8.05 | <=11 | Pass |
| | | 5320 | 5.55 | 4.12 | 7.82 | <=11 | Pass |
| | | 5500 | 4.69 | 2.65 | 6.64 | <=11 | Pass |
| | | 5580 | 3.76 | 1.97 | 5.84 | <=11 | Pass |
| | | 5700 | 4.59 | 3.11 | 6.75 | <=11 | Pass |
| 802.11n (HT20) | MIMO | 5180 | 5.08 | 2.16 | 6.81 | <=11 | Pass |
| | | 5200 | 5.52 | 2.72 | 7.30 | <=11 | Pass |
| | | 5240 | 5.58 | 3.51 | 7.56 | <=11 | Pass |
| | | 5260 | 5.55 | 3.90 | 7.64 | <=11 | Pass |
| | | 5300 | 5.39 | 4.05 | 7.70 | <=11 | Pass |
| | | 5320 | 5.04 | 3.82 | 7.45 | <=11 | Pass |
| | | 5500 | 4.14 | 2.04 | 6.17 | <=11 | Pass |
| | | 5580 | 3.36 | 1.66 | 5.51 | <=11 | Pass |
| | | 5700 | 4.22 | 2.66 | 6.48 | <=11 | Pass |
| 802.11n (HT40) | MIMO | 5190 | 0.22 | -2.89 | 1.88 | <=11 | Pass |
| | | 5230 | 0.42 | -2.07 | 2.32 | <=11 | Pass |
| | | 5270 | 0.54 | -1.32 | 2.72 | <=11 | Pass |
| | | 5310 | 0.19 | -1.14 | 2.59 | <=11 | Pass |
| | | 5510 | -0.92 | -2.92 | 1.10 | <=11 | Pass |
| | | 5550 | -1.53 | -3.33 | 0.56 | <=11 | Pass |
| | | 5670 | -1.52 | -2.85 | 0.79 | <=11 | Pass |
| 802.11ac (VHT20) | MIMO | 5180 | 5.34 | 2.29 | 6.98 | <=11 | Pass |
| | | 5200 | 5.41 | 2.85 | 7.30 | <=11 | Pass |
| | | 5240 | 5.67 | 3.52 | 7.51 | <=11 | Pass |
| | | 5260 | 5.67 | 4.02 | 7.90 | <=11 | Pass |
| | | 5300 | 5.39 | 3.98 | 7.63 | <=11 | Pass |
| | | 5320 | 5.02 | 3.97 | 7.40 | <=11 | Pass |



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| | | | | | | | |
|---------------------|------|------|-------|-------|-------|------|------|
| | | 5500 | 4.17 | 2.18 | 6.24 | <=11 | Pass |
| | | 5580 | 3.37 | 1.63 | 5.54 | <=11 | Pass |
| | | 5700 | 4.04 | 2.53 | 6.31 | <=11 | Pass |
| 802.11ac (VHT40) | MIMO | 5190 | 0.18 | -3.02 | 1.85 | <=11 | Pass |
| | | 5230 | 0.53 | -1.96 | 2.42 | <=11 | Pass |
| | | 5270 | 0.58 | -0.89 | 2.81 | <=11 | Pass |
| | | 5310 | 0.10 | -1.15 | 2.44 | <=11 | Pass |
| | | 5510 | -0.94 | -2.79 | 1.20 | <=11 | Pass |
| | | 5550 | -1.48 | -3.32 | 0.68 | <=11 | Pass |
| | | 5670 | -1.31 | -2.88 | 0.89 | <=11 | Pass |
| 802.11ac (VHT80) | MIMO | 5210 | -4.61 | -7.30 | -2.76 | <=11 | Pass |
| | | 5290 | -4.69 | -6.32 | -2.49 | <=11 | Pass |
| | | 5530 | -6.38 | -8.63 | -4.43 | <=11 | Pass |
| | | 5610 | -6.80 | -8.70 | -4.76 | <=11 | Pass |



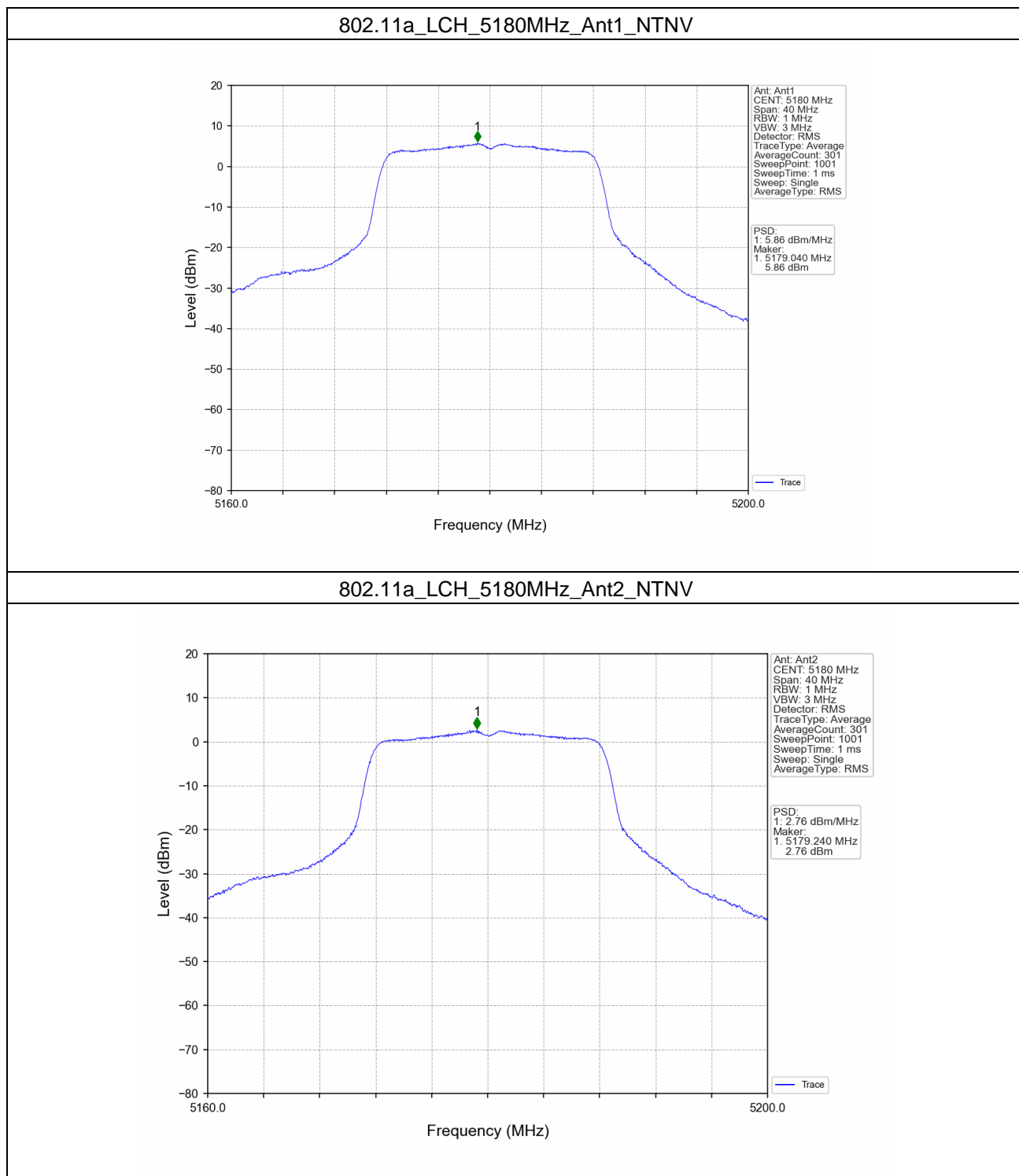
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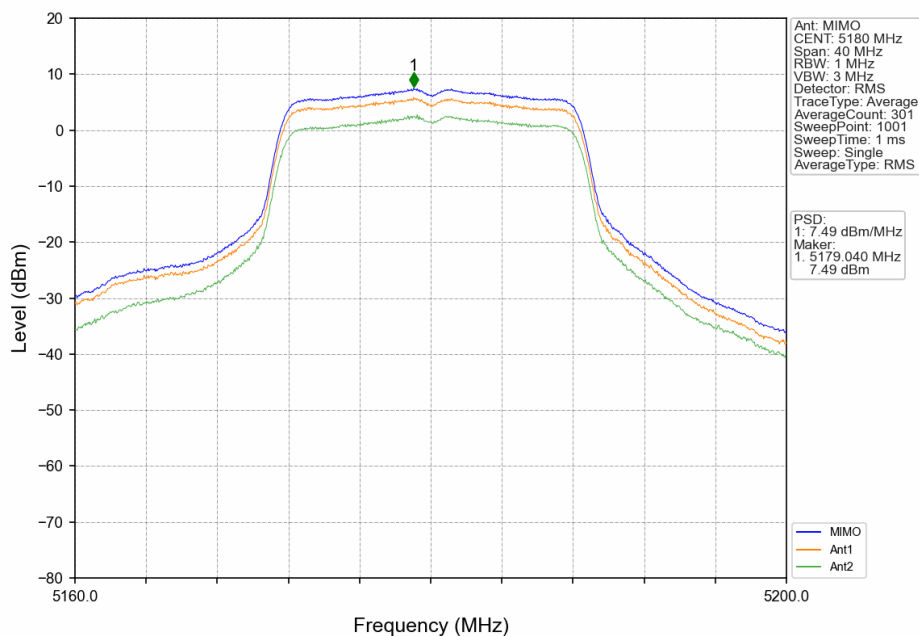
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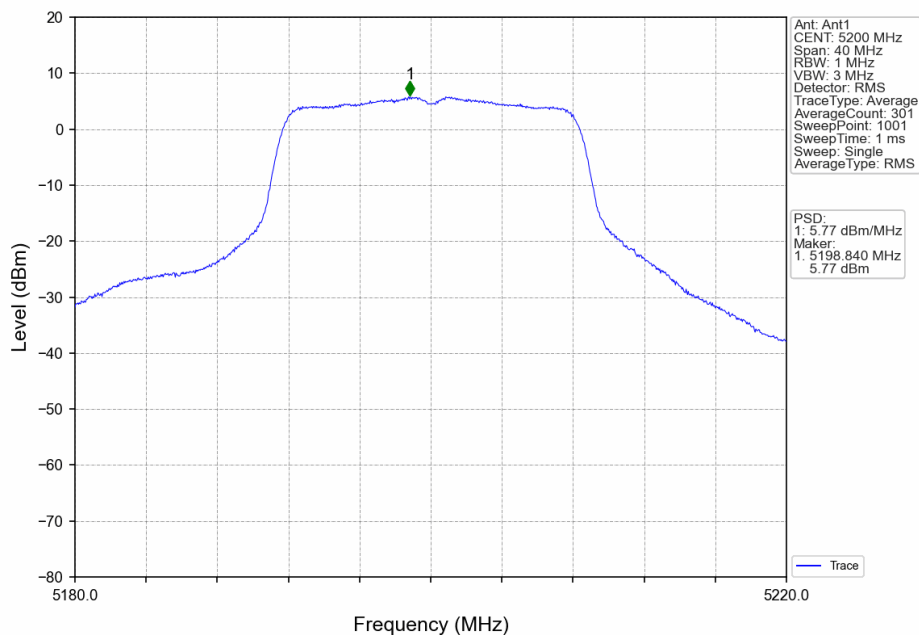
4.1.2 Test Graph



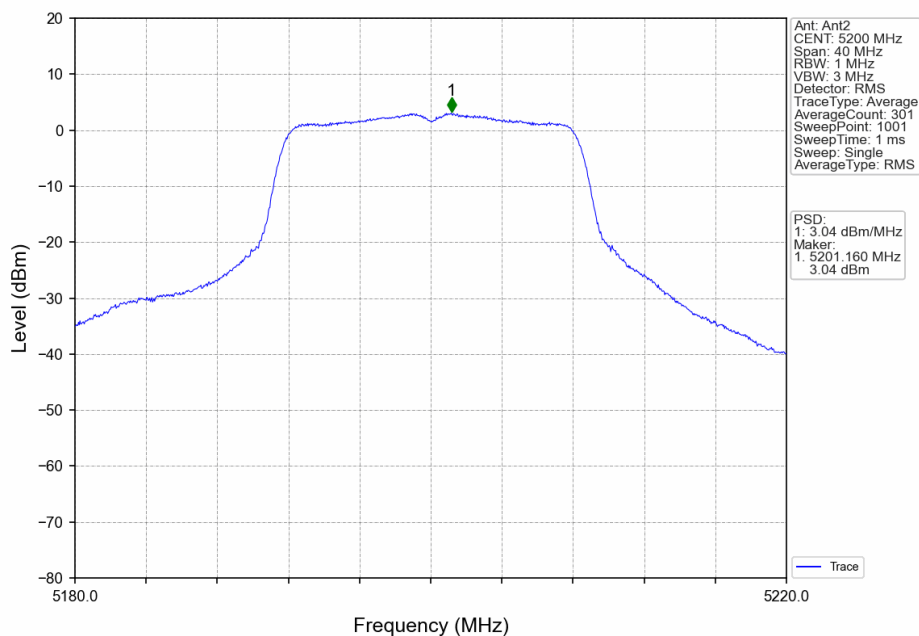
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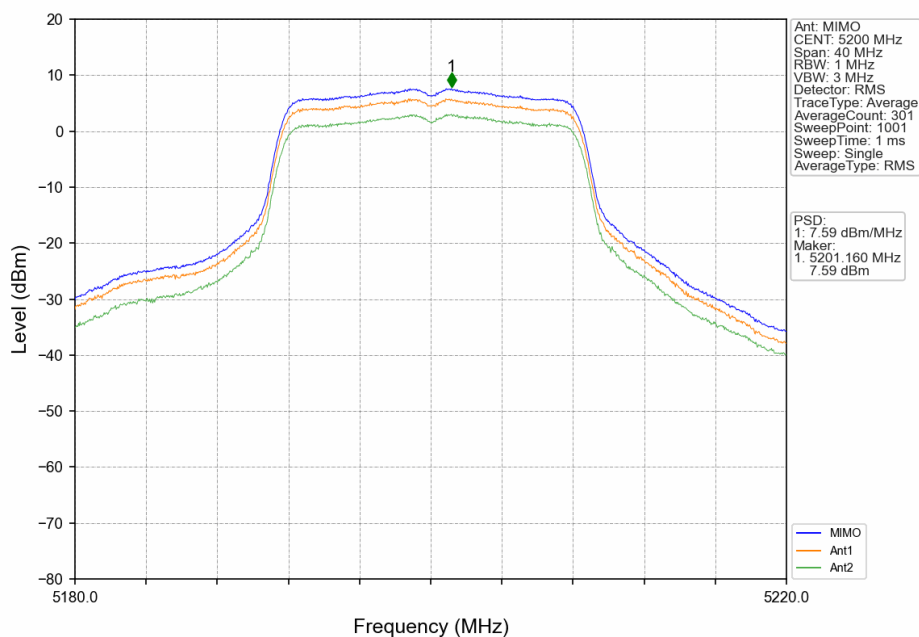
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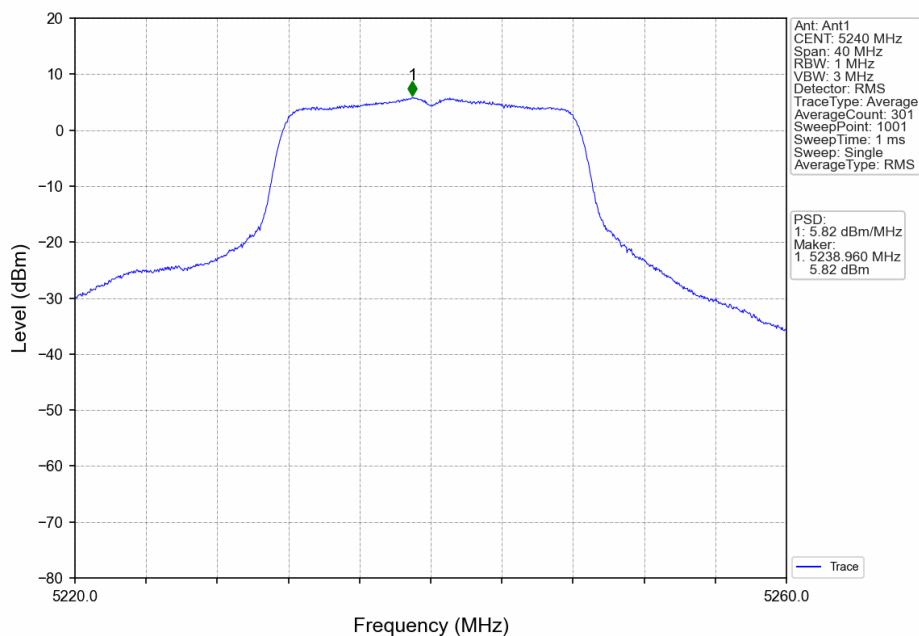
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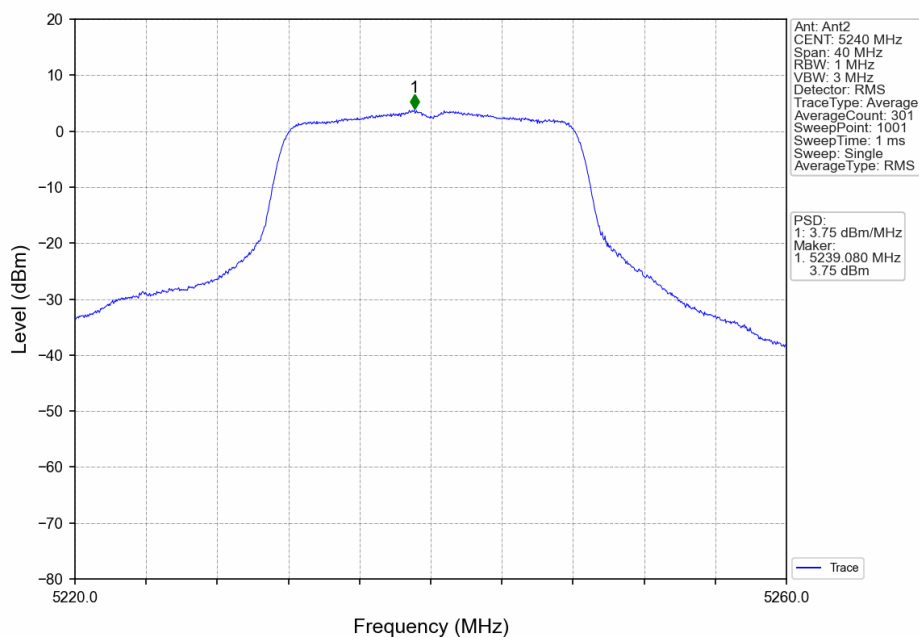
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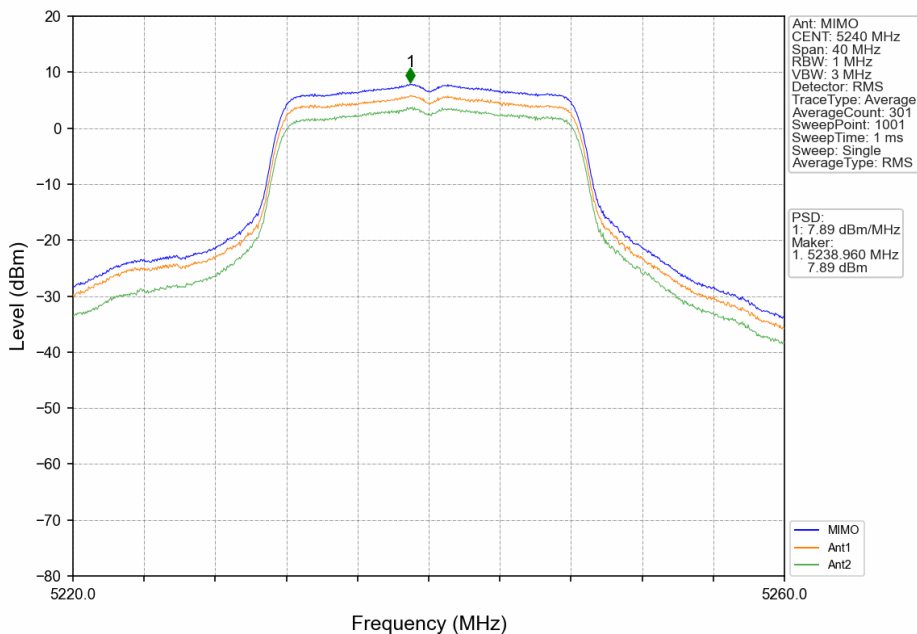
802.11a_HCH_5240MHz_Ant1_NTNV



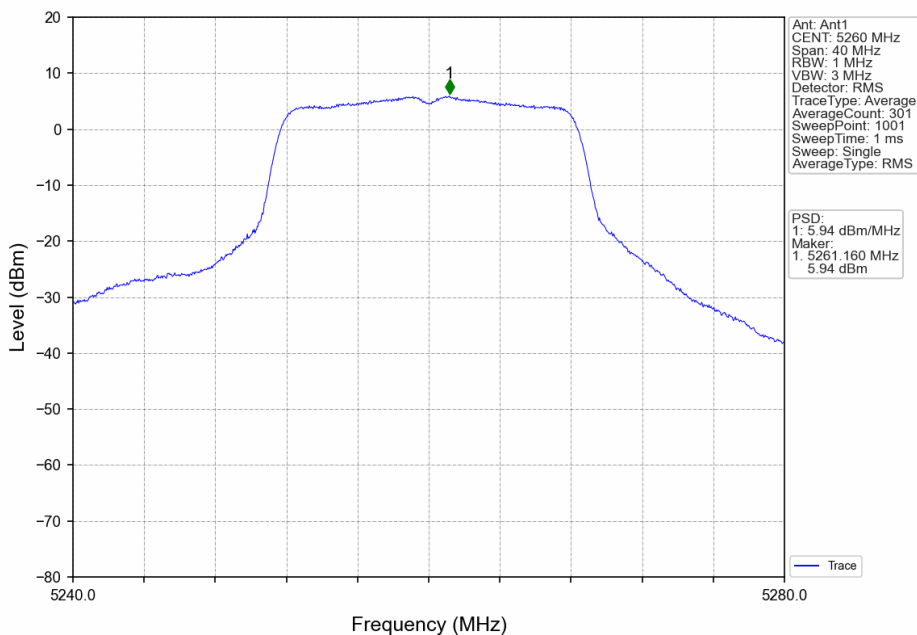
802.11a_HCH_5240MHz_Ant2_NTNV



802.11a_HCH_5240MHz_MIMO_NTNV



802.11a_LCH_5260MHz_Ant1_NTNV



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