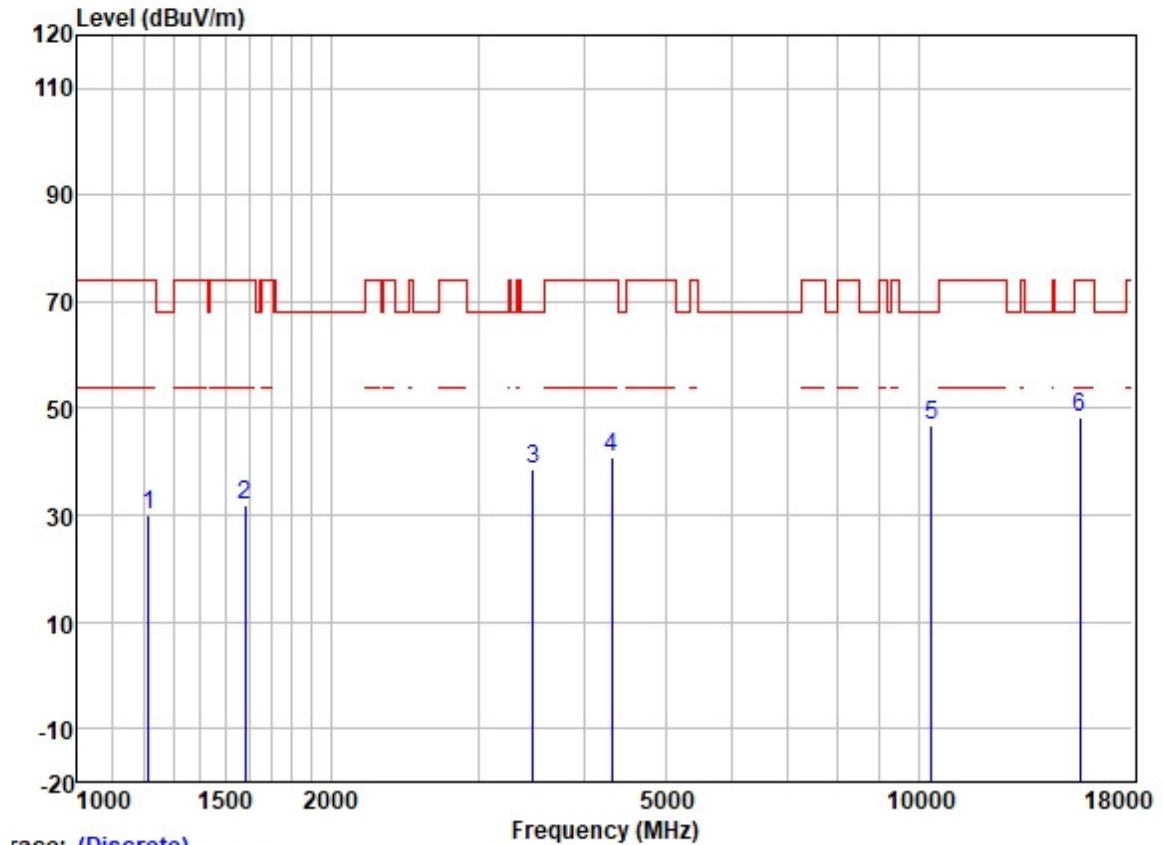


Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



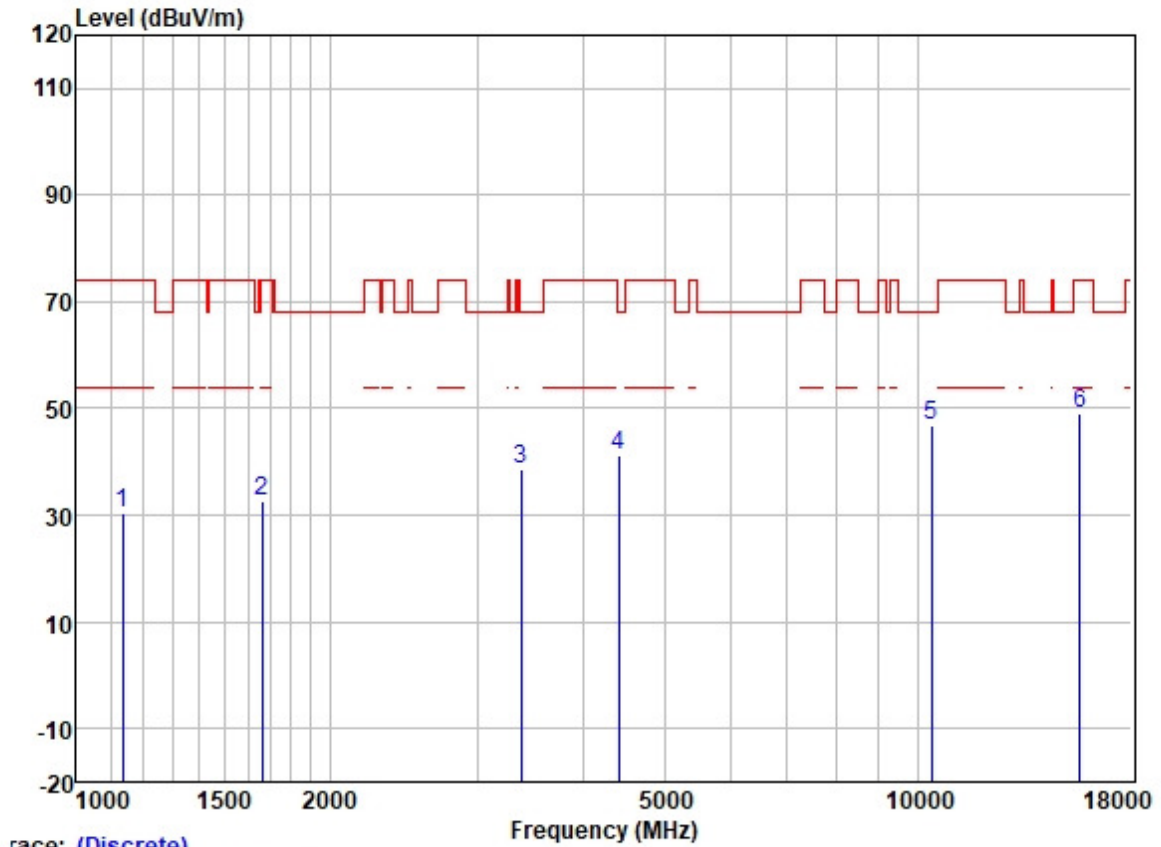
Trace: (Discrete)

| | Read Freq | Antenna Level | Cable Factor | Preamp Loss | Preamp Factor | Limit Level | Over Limit | Pol/Phase | Remark |
|---|-----------|---------------|--------------|-------------|---------------|-------------|------------|-----------|---------------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dB | | |
| 1 | 1213.677 | 41.44 | 24.77 | 2.32 | 38.37 | 30.16 | 74.00 | -43.84 | VERTICAL Peak |
| 2 | 1583.392 | 41.57 | 25.56 | 2.80 | 38.00 | 31.93 | 74.00 | -42.07 | VERTICAL Peak |
| 3 | 3485.601 | 42.41 | 28.89 | 4.27 | 36.95 | 38.62 | 68.20 | -29.58 | VERTICAL Peak |
| 4 | 4316.859 | 42.49 | 30.51 | 4.66 | 36.81 | 40.85 | 74.00 | -33.15 | VERTICAL Peak |
| 5 | 10360.000 | 37.46 | 39.28 | 7.29 | 37.37 | 46.66 | 68.20 | -21.54 | VERTICAL Peak |
| 6 | 15540.000 | 34.94 | 39.05 | 9.88 | 35.39 | 48.48 | 74.00 | -25.52 | VERTICAL Peak |



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



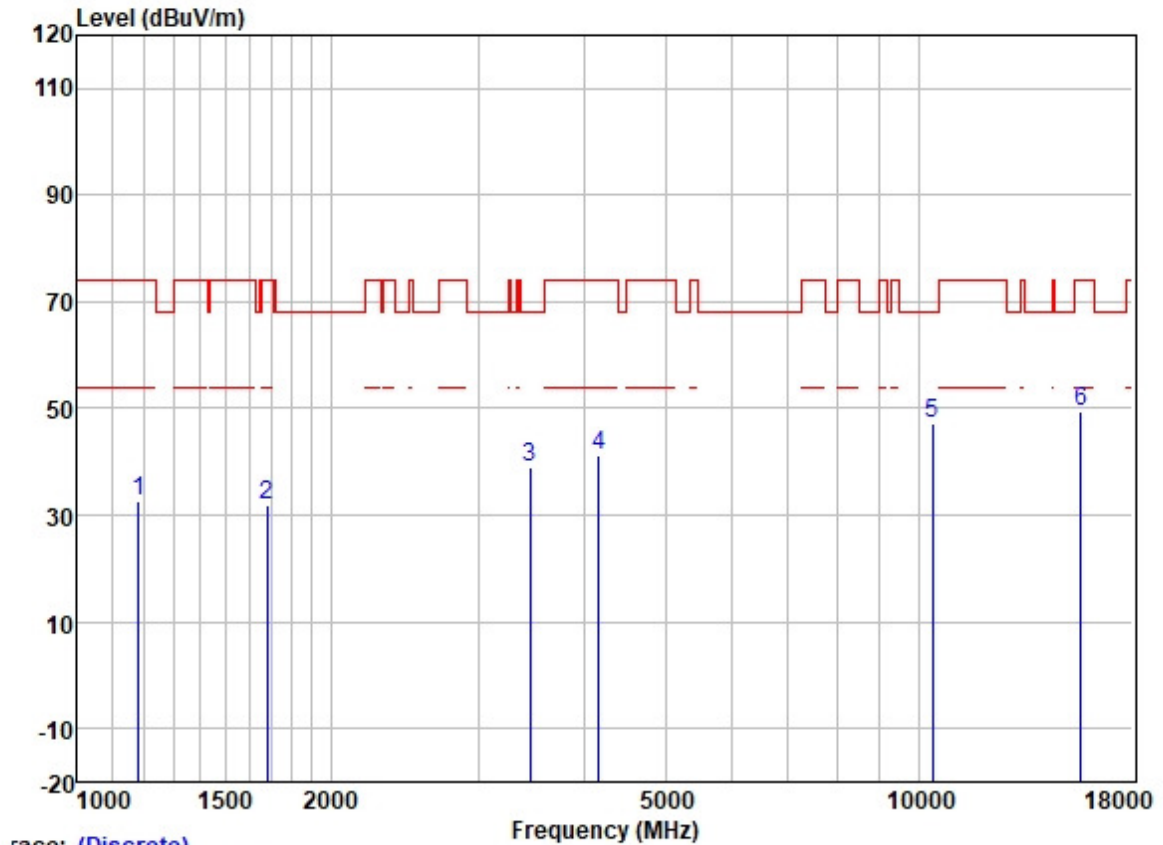
Trace: (Discrete)

| | Read Freq | Antenna Level | Cable Factor | Preamp Loss | Preamp Factor | Level | Limit | Over | Pol/Phase | Remark |
|---|-----------|---------------|--------------|-------------|---------------|--------|--------|--------|------------|--------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 1135.617 | 42.31 | 24.45 | 2.25 | 38.43 | 30.58 | 74.00 | -43.42 | HORIZONTAL | Peak |
| 2 | 1663.137 | 41.97 | 25.65 | 2.80 | 37.91 | 32.51 | 74.00 | -41.49 | HORIZONTAL | Peak |
| 3 | 3376.523 | 42.79 | 28.83 | 4.09 | 36.99 | 38.72 | 68.20 | -29.48 | HORIZONTAL | Peak |
| 4 | 4417.841 | 42.66 | 30.70 | 4.74 | 36.81 | 41.29 | 68.20 | -26.91 | HORIZONTAL | Peak |
| 5 | 10400.000 | 37.53 | 39.33 | 7.32 | 37.36 | 46.82 | 68.20 | -21.38 | HORIZONTAL | Peak |
| 6 | 15600.000 | 35.65 | 38.99 | 9.88 | 35.39 | 49.13 | 74.00 | -24.87 | HORIZONTAL | Peak |



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Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:middle



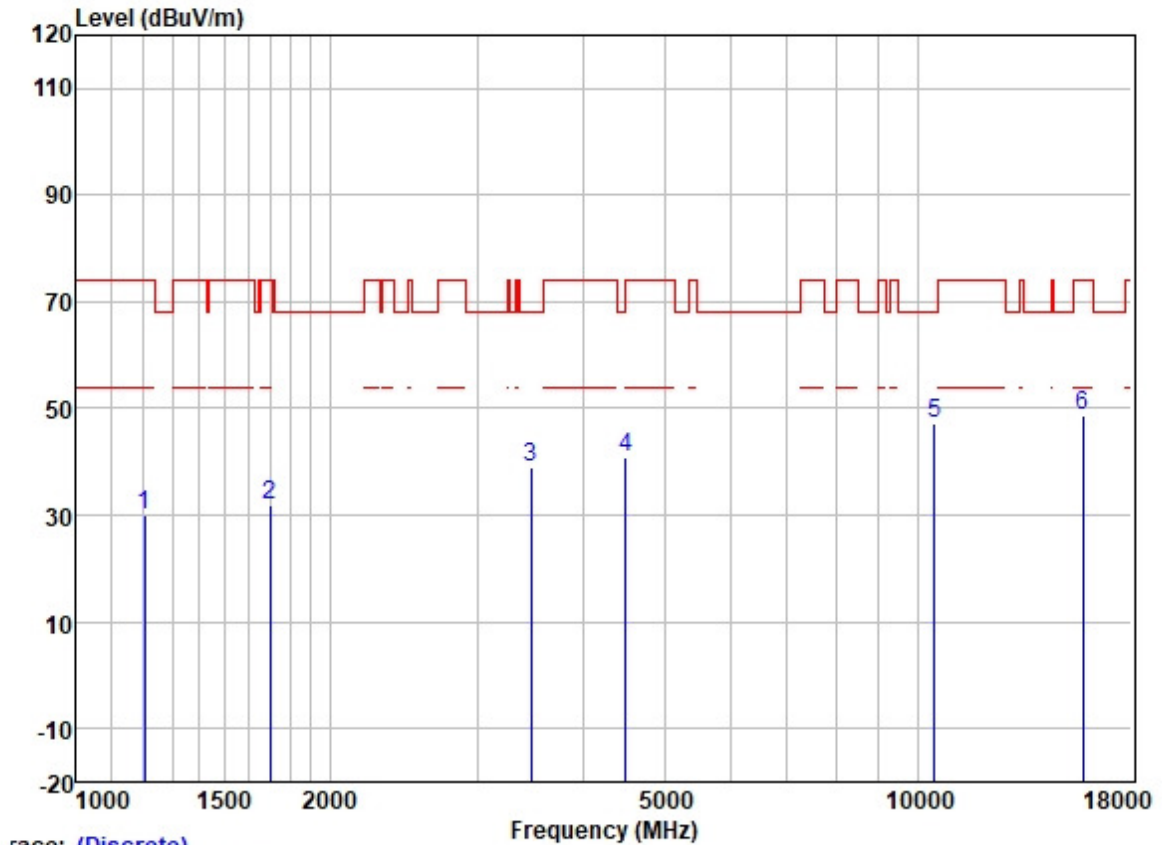
Trace: (Discrete)

| | Read Freq | Antenna Level | Cable Factor | Preamp Loss | Preamp Factor | Limit Level | Over Limit | Pol/Phase | Remark |
|---|-----------|---------------|--------------|-------------|---------------|-------------|------------|-----------|---------------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dB | | |
| 1 | 1182.513 | 43.96 | 24.60 | 2.37 | 38.40 | 32.53 | 74.00 | -41.47 | VERTICAL Peak |
| 2 | 1682.477 | 41.42 | 25.68 | 2.80 | 37.91 | 31.99 | 74.00 | -42.01 | VERTICAL Peak |
| 3 | 3455.508 | 42.69 | 28.88 | 4.20 | 36.96 | 38.81 | 68.20 | -29.39 | VERTICAL Peak |
| 4 | 4169.698 | 43.32 | 30.09 | 4.60 | 36.80 | 41.21 | 74.00 | -32.79 | VERTICAL Peak |
| 5 | 10400.000 | 37.86 | 39.33 | 7.32 | 37.36 | 47.15 | 68.20 | -21.05 | VERTICAL Peak |
| 6 | 15600.000 | 35.93 | 38.99 | 9.88 | 35.39 | 49.41 | 74.00 | -24.59 | VERTICAL Peak |



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



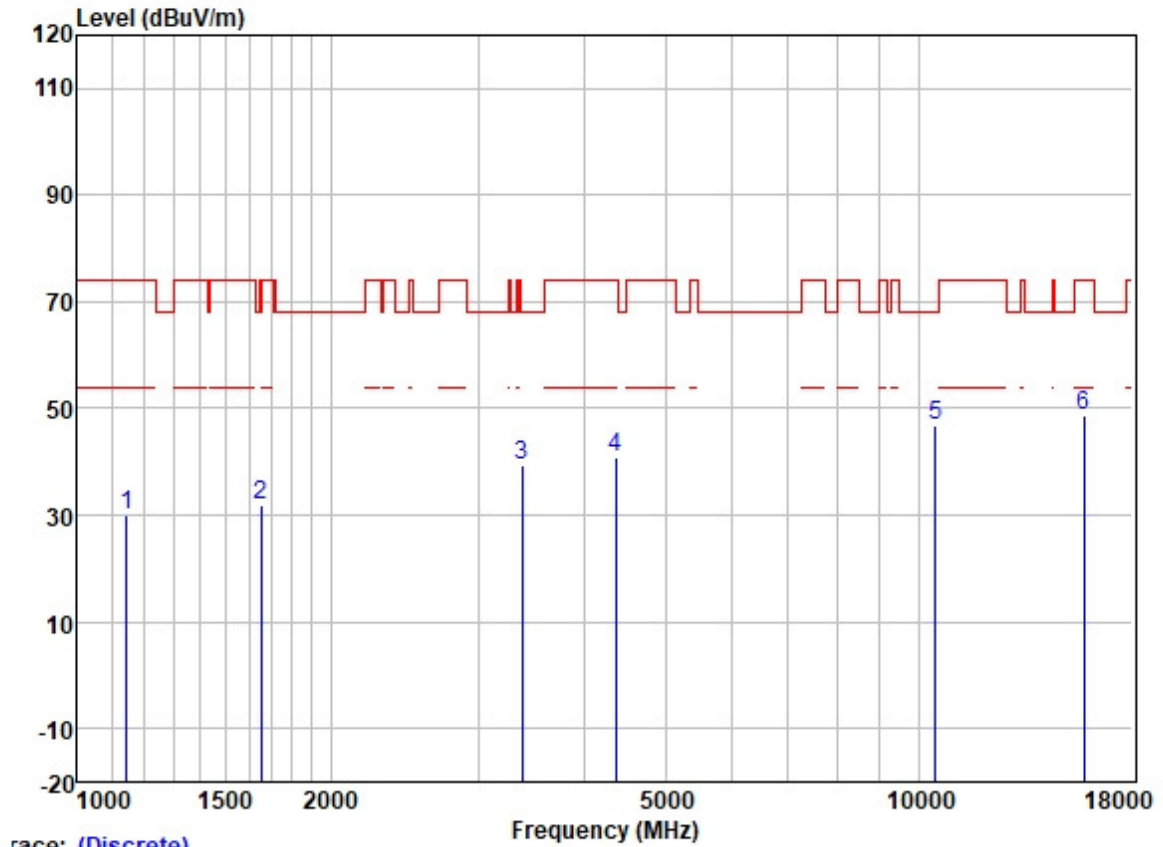
Trace: (Discrete)

| | Read Freq | Antenna Level | Cable Factor | Preamp Loss | Preamp Factor | Level | Limit | Over | Pol/Phase | Remark |
|---|-----------|---------------|--------------|-------------|---------------|--------|--------|--------|------------|--------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 1206.682 | 41.36 | 24.72 | 2.33 | 38.39 | 30.02 | 74.00 | -43.98 | HORIZONTAL | Peak |
| 2 | 1697.129 | 41.42 | 25.71 | 2.80 | 37.89 | 32.04 | 74.00 | -41.96 | HORIZONTAL | Peak |
| 3 | 3475.541 | 42.78 | 28.89 | 4.25 | 36.95 | 38.97 | 68.20 | -29.23 | HORIZONTAL | Peak |
| 4 | 4495.125 | 41.86 | 30.80 | 5.05 | 36.82 | 40.89 | 68.20 | -27.31 | HORIZONTAL | Peak |
| 5 | 10480.000 | 37.53 | 39.46 | 7.40 | 37.36 | 47.03 | 68.20 | -21.17 | HORIZONTAL | Peak |
| 6 | 15720.000 | 35.29 | 38.78 | 9.87 | 35.39 | 48.55 | 74.00 | -25.45 | HORIZONTAL | Peak |



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Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



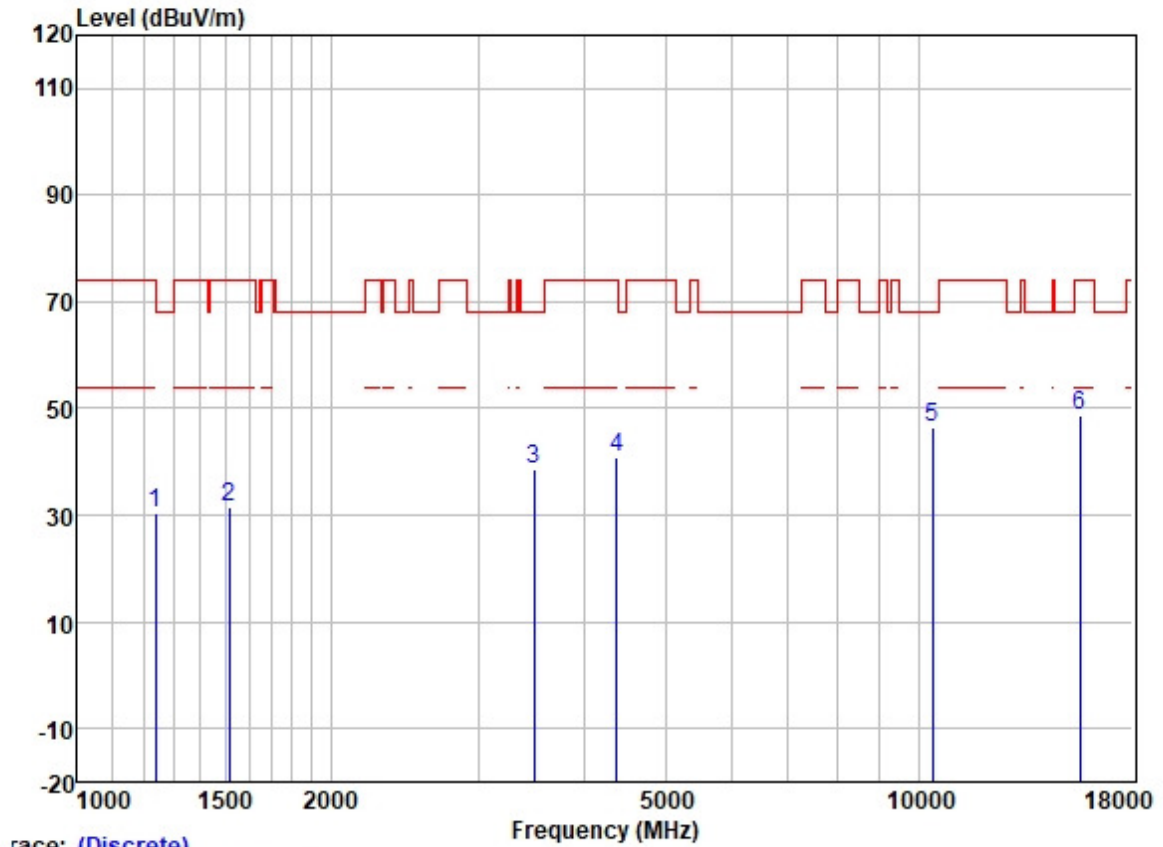
Trace: (Discrete)

| | Read Freq | Antenna Level | Cable Factor | Preamp Loss | Preamp Factor | Limit Level | Over Limit | Pol/Phase | Remark |
|---|-----------|---------------|--------------|-------------|---------------|-------------|--------------|-----------|--------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dB | | |
| 1 | 1145.507 | 41.50 | 24.48 | 2.32 | 38.42 | 29.88 | 74.00 -44.12 | VERTICAL | Peak |
| 2 | 1653.550 | 41.37 | 25.64 | 2.80 | 37.93 | 31.88 | 68.20 -36.32 | VERTICAL | Peak |
| 3 | 3376.523 | 43.29 | 28.83 | 4.09 | 36.99 | 39.22 | 68.20 -28.98 | VERTICAL | Peak |
| 4 | 4367.058 | 42.33 | 30.62 | 4.68 | 36.81 | 40.82 | 74.00 -33.18 | VERTICAL | Peak |
| 5 | 10480.000 | 37.16 | 39.46 | 7.40 | 37.36 | 46.66 | 68.20 -21.54 | VERTICAL | Peak |
| 6 | 15720.000 | 35.61 | 38.78 | 9.87 | 35.39 | 48.87 | 74.00 -25.13 | VERTICAL | Peak |



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



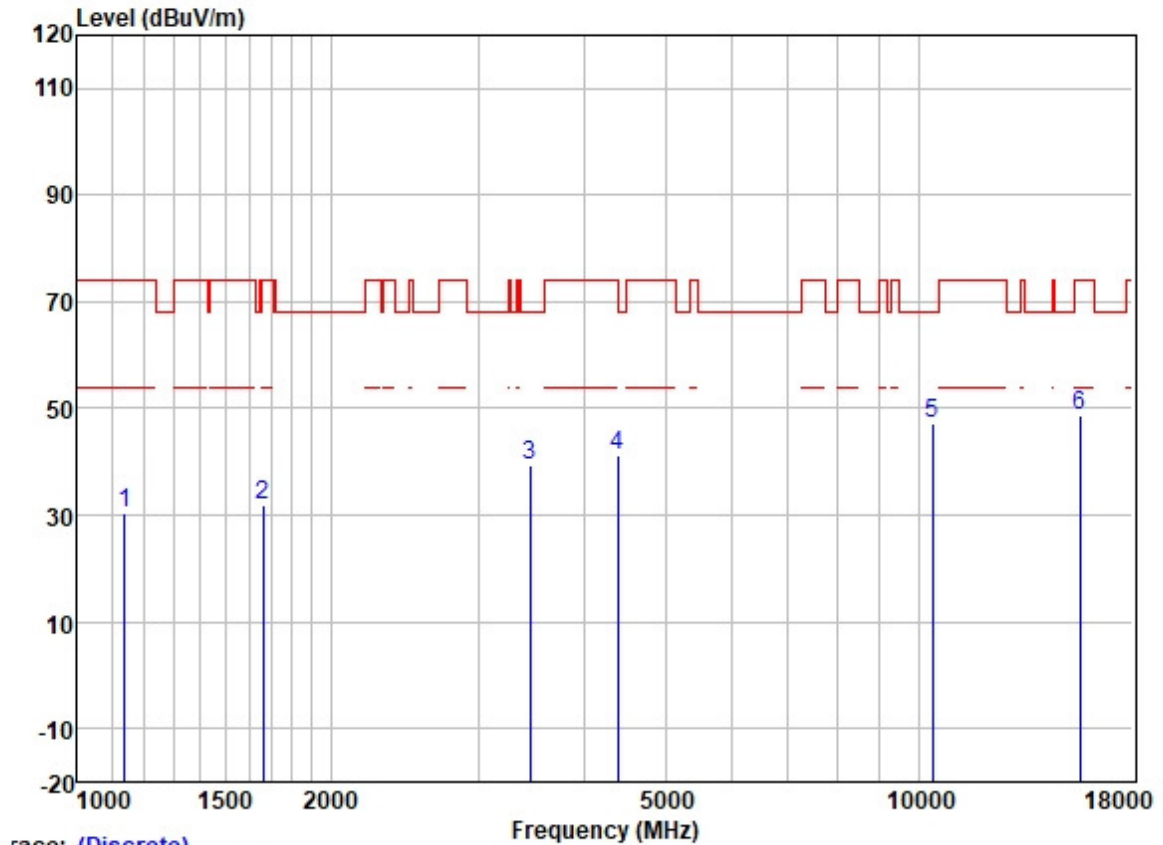
Trace: (Discrete)

| | Read Freq | Antenna Level | Cable Factor | Preamp Loss | Preamp Factor | Limit Level | Over Limit | Pol/Phase | Remark |
|---|-----------|---------------|--------------|-------------|---------------|-------------|------------|-----------|-----------------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dB | | |
| 1 | 1238.483 | 41.48 | 24.96 | 2.30 | 38.35 | 30.39 | 74.00 | -43.61 | HORIZONTAL Peak |
| 2 | 1516.210 | 41.34 | 25.51 | 2.80 | 38.07 | 31.58 | 74.00 | -42.42 | HORIZONTAL Peak |
| 3 | 3495.691 | 42.53 | 28.90 | 4.30 | 36.94 | 38.79 | 68.20 | -29.41 | HORIZONTAL Peak |
| 4 | 4379.699 | 42.26 | 30.64 | 4.69 | 36.81 | 40.78 | 74.00 | -33.22 | HORIZONTAL Peak |
| 5 | 10380.000 | 37.31 | 39.33 | 7.32 | 37.37 | 46.59 | 68.20 | -21.61 | HORIZONTAL Peak |
| 6 | 15570.000 | 35.30 | 38.99 | 9.88 | 35.39 | 48.78 | 74.00 | -25.22 | HORIZONTAL Peak |



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Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



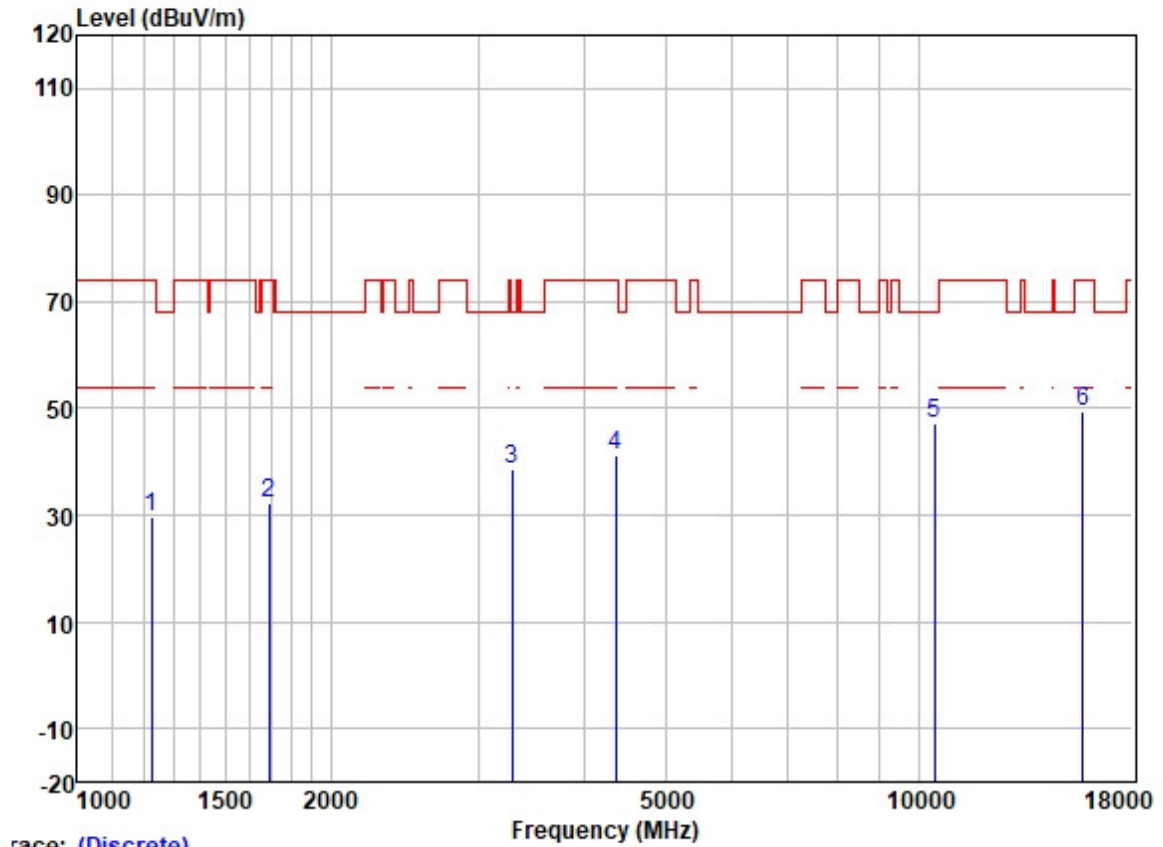
Trace: (Discrete)

| | Read Freq | Antenna Level | Cable Factor | Preamp Loss | Preamp Factor | Level | Limit | Over | Pol/Phase | Remark |
|---|-----------|---------------|--------------|-------------|---------------|--------|--------|--------|-----------|--------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 1138.904 | 42.06 | 24.46 | 2.27 | 38.42 | 30.37 | 74.00 | -43.63 | VERTICAL | Peak |
| 2 | 1663.137 | 41.33 | 25.65 | 2.80 | 37.91 | 31.87 | 74.00 | -42.13 | VERTICAL | Peak |
| 3 | 3455.508 | 43.23 | 28.88 | 4.20 | 36.96 | 39.35 | 68.20 | -28.85 | VERTICAL | Peak |
| 4 | 4392.376 | 42.73 | 30.66 | 4.70 | 36.81 | 41.28 | 74.00 | -32.72 | VERTICAL | Peak |
| 5 | 10380.000 | 37.81 | 39.33 | 7.32 | 37.37 | 47.09 | 68.20 | -21.11 | VERTICAL | Peak |
| 6 | 15570.000 | 35.29 | 38.99 | 9.88 | 35.39 | 48.77 | 74.00 | -25.23 | VERTICAL | Peak |



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



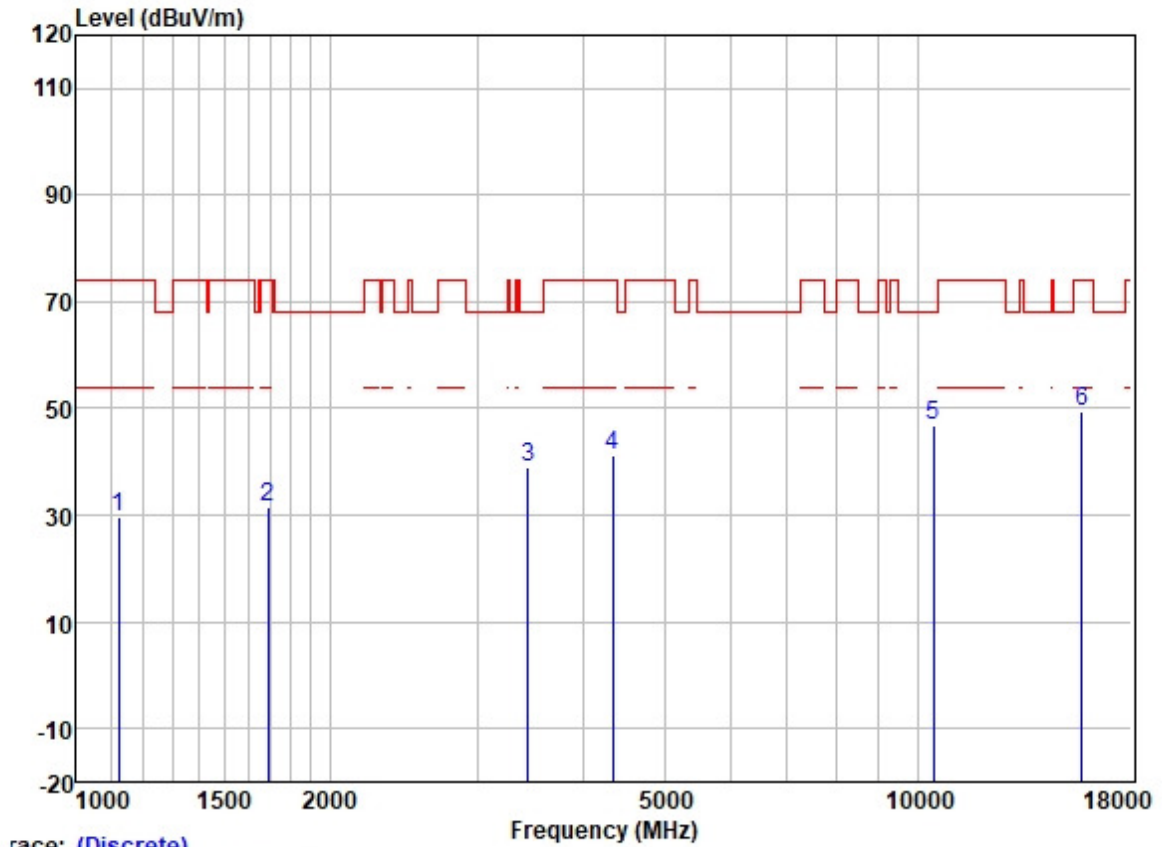
Trace: (Discrete)

| | Read Freq | Antenna Level | Cable Factor | Preamp Loss | Preamp Factor | Level | Limit | Over | Pol/Phase | Remark |
|---|-----------|---------------|--------------|-------------|---------------|--------|--------|--------|------------|--------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 1224.247 | 40.88 | 24.85 | 2.31 | 38.37 | 29.67 | 74.00 | -44.33 | HORIZONTAL | Peak |
| 2 | 1692.231 | 41.50 | 25.70 | 2.80 | 37.89 | 32.11 | 74.00 | -41.89 | HORIZONTAL | Peak |
| 3 | 3289.821 | 42.77 | 28.74 | 4.05 | 37.03 | 38.53 | 68.20 | -29.67 | HORIZONTAL | Peak |
| 4 | 4367.058 | 42.69 | 30.62 | 4.68 | 36.81 | 41.18 | 74.00 | -32.82 | HORIZONTAL | Peak |
| 5 | 10460.000 | 37.67 | 39.42 | 7.37 | 37.36 | 47.10 | 68.20 | -21.10 | HORIZONTAL | Peak |
| 6 | 15690.000 | 36.24 | 38.86 | 9.87 | 35.39 | 49.58 | 74.00 | -24.42 | HORIZONTAL | Peak |



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Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



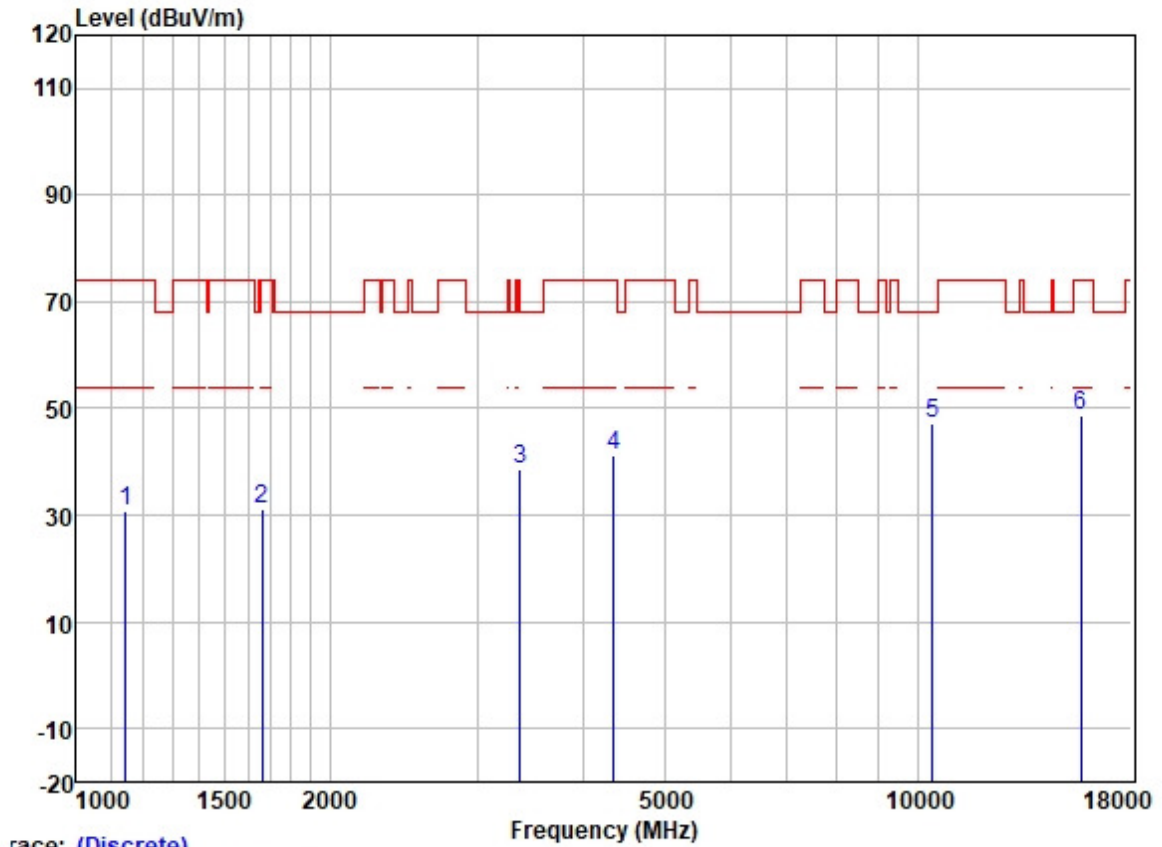
Trace: (Discrete)

| | Read Freq | Antenna Level | Cable Factor | Preamp Loss | Preamp Factor | Level | Limit | Over | Pol/Phase | Remark |
|---|-----------|---------------|--------------|-------------|---------------|--------|--------|--------|-----------|--------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 1122.563 | 41.55 | 24.42 | 2.22 | 38.43 | 29.76 | 74.00 | -44.24 | VERTICAL | Peak |
| 2 | 1692.231 | 40.91 | 25.70 | 2.80 | 37.89 | 31.52 | 74.00 | -42.48 | VERTICAL | Peak |
| 3 | 3445.535 | 42.72 | 28.87 | 4.18 | 36.96 | 38.81 | 68.20 | -29.39 | VERTICAL | Peak |
| 4 | 4341.886 | 42.78 | 30.57 | 4.67 | 36.81 | 41.21 | 74.00 | -32.79 | VERTICAL | Peak |
| 5 | 10460.000 | 37.54 | 39.42 | 7.37 | 37.36 | 46.97 | 68.20 | -21.23 | VERTICAL | Peak |
| 6 | 15690.000 | 36.03 | 38.86 | 9.87 | 35.39 | 49.37 | 74.00 | -24.63 | VERTICAL | Peak |



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Test Mode: 05; Polarity: Horizontal; Modulation:802.11 ac; Bandwidth:80MHz; Channel:middle



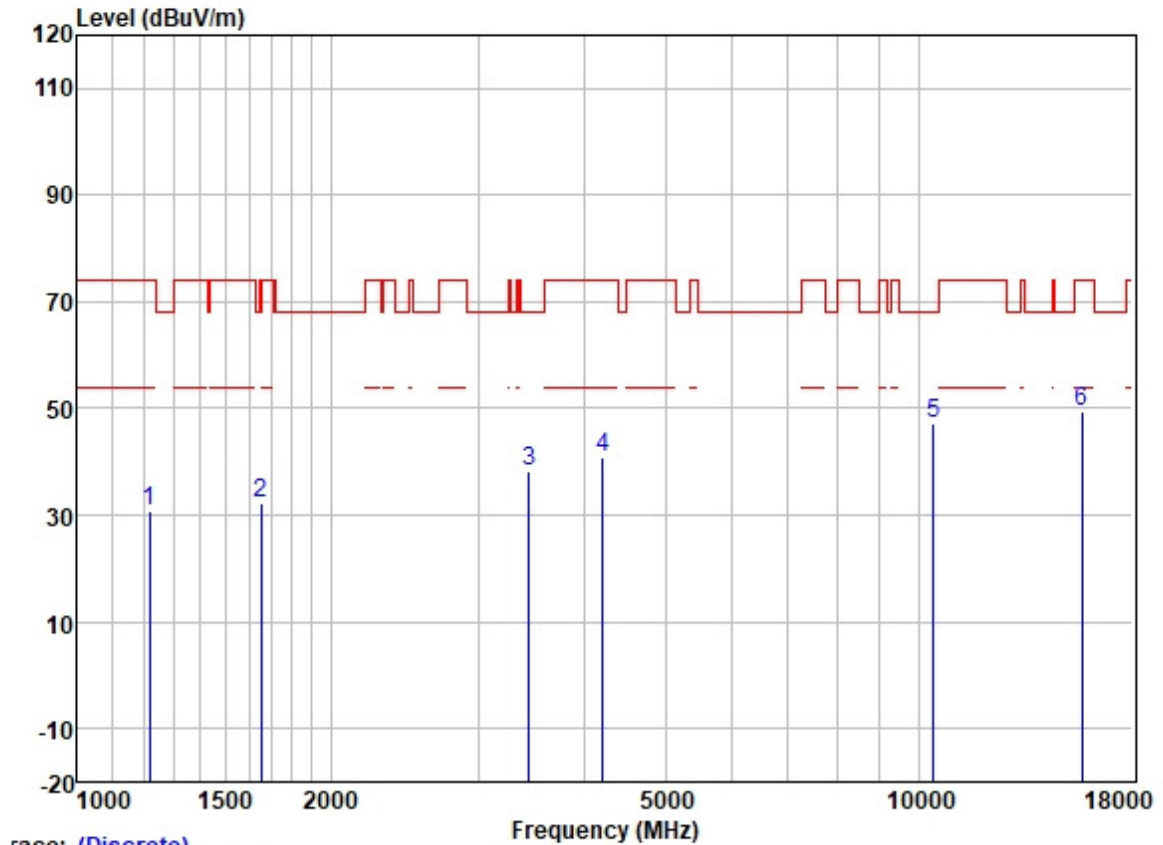
Trace: (Discrete)

| | Read Freq | Antenna Level | Cable Factor | Preamp Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|-----------|---------------|--------------|-------------|---------------|--------|------------|------------|------------|--------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 1145.507 | 42.54 | 24.48 | 2.32 | 38.42 | 30.92 | 74.00 | -43.08 | HORIZONTAL | Peak |
| 2 | 1663.137 | 40.71 | 25.65 | 2.80 | 37.91 | 31.25 | 74.00 | -42.75 | HORIZONTAL | Peak |
| 3 | 3366.778 | 42.63 | 28.82 | 4.09 | 36.99 | 38.55 | 68.20 | -29.65 | HORIZONTAL | Peak |
| 4 | 4354.454 | 42.89 | 30.59 | 4.68 | 36.81 | 41.35 | 74.00 | -32.65 | HORIZONTAL | Peak |
| 5 | 10420.000 | 37.65 | 39.38 | 7.35 | 37.36 | 47.02 | 68.20 | -21.18 | HORIZONTAL | Peak |
| 6 | 15630.000 | 35.47 | 38.92 | 9.87 | 35.39 | 48.87 | 74.00 | -25.13 | HORIZONTAL | Peak |



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Test Mode: 05; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Trace: (Discrete)

| | Read | Antenna | Cable | Preamp | | Limit | Over | | | |
|---|-----------|---------|--------|--------|--------|--------|--------|--------|-----------|--------|
| | Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 1217.190 | 42.12 | 24.79 | 2.32 | 38.37 | 30.86 | 74.00 | -43.14 | VERTICAL | Peak |
| 2 | 1653.550 | 41.83 | 25.64 | 2.80 | 37.93 | 32.34 | 68.20 | -35.86 | VERTICAL | Peak |
| 3 | 3445.535 | 42.33 | 28.87 | 4.18 | 36.96 | 38.42 | 68.20 | -29.78 | VERTICAL | Peak |
| 4 | 4218.186 | 42.74 | 30.22 | 4.60 | 36.81 | 40.75 | 74.00 | -33.25 | VERTICAL | Peak |
| 5 | 10420.000 | 37.69 | 39.38 | 7.35 | 37.36 | 47.06 | 68.20 | -21.14 | VERTICAL | Peak |
| 6 | 15630.000 | 36.04 | 38.92 | 9.87 | 35.39 | 49.44 | 74.00 | -24.56 | VERTICAL | Peak |



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8 Test Setup Photo

Refer to Appendix –Setup Photos for GZCR2204000426AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for GZCR2204000426AT



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10 Appendix

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

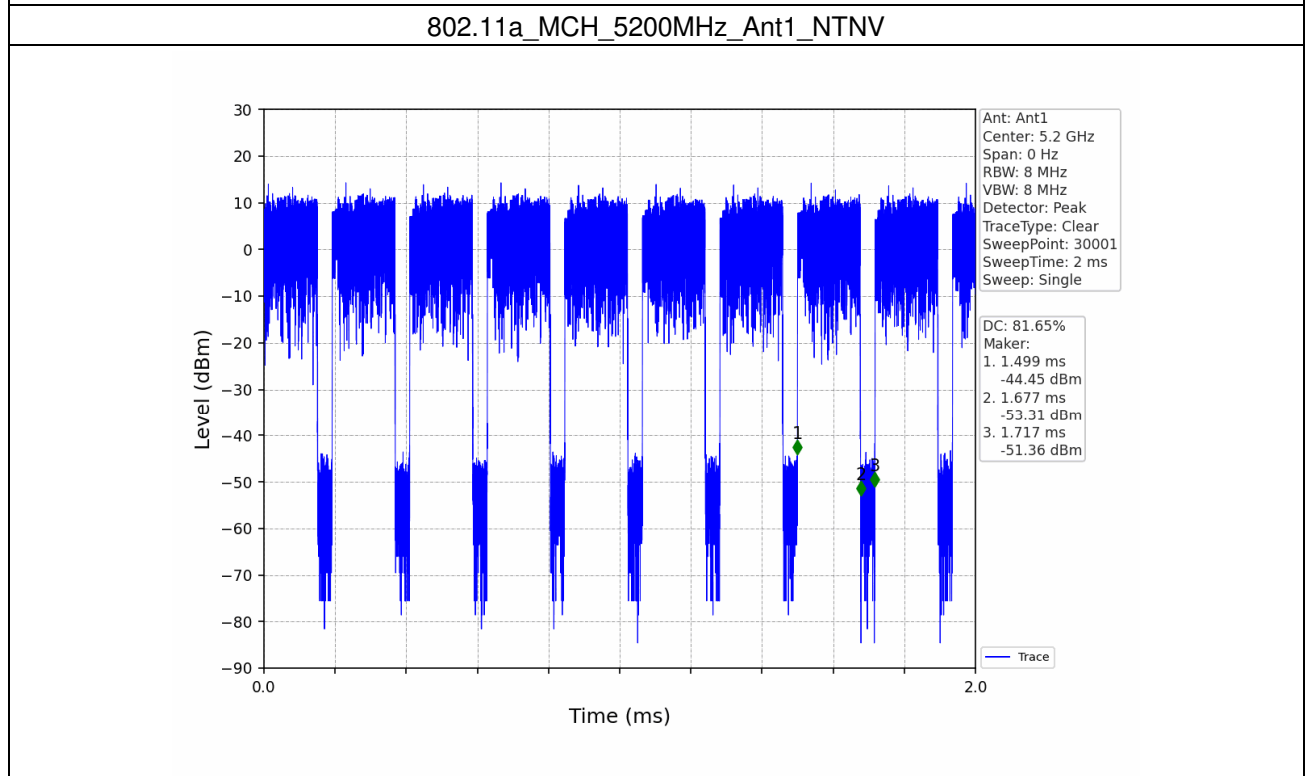
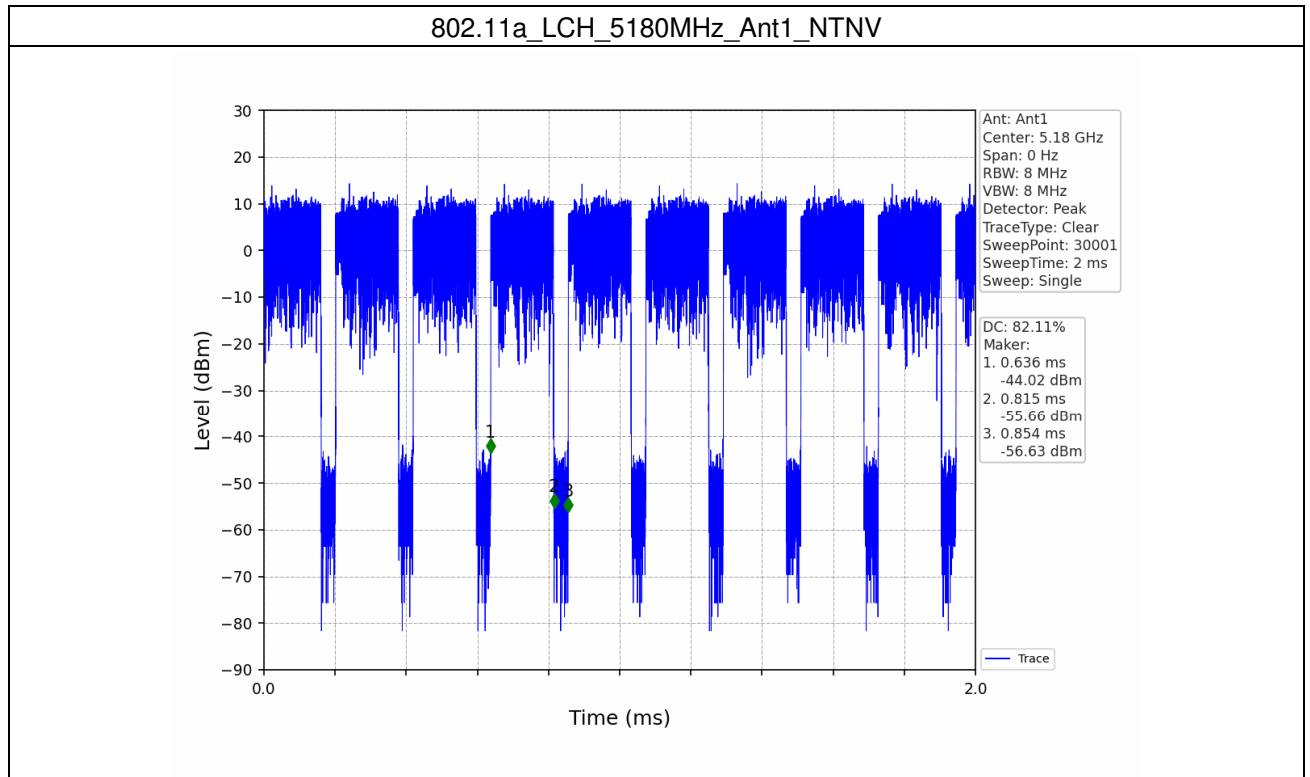
| Ant1 | | | | | | | |
|------------------|---------|-----------------|-----------|-------------|----------------|-----------------------------------|-----------------------|
| Mode | TX Type | Frequency (MHz) | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| 802.11a | SISO | 5180 | 0.179 | 0.218 | 82.11 | 0.86 | 0.15 |
| | | 5200 | 0.178 | 0.218 | 81.65 | 0.88 | 0.22 |
| | | 5240 | 0.179 | 0.218 | 82.11 | 0.86 | 0.15 |
| 802.11n (HT20) | SISO | 5180 | 0.165 | 0.206 | 80.10 | 0.96 | 0.04 |
| | | 5200 | 0.167 | 0.206 | 81.07 | 0.91 | 0.17 |
| | | 5240 | 0.166 | 0.206 | 80.58 | 0.94 | 0.12 |
| 802.11n (HT40) | SISO | 5190 | 0.101 | 0.142 | 71.13 | 1.48 | 0.29 |
| | | 5230 | 0.103 | 0.142 | 72.54 | 1.39 | 0.19 |
| 802.11ac (VHT20) | SISO | 5180 | 0.168 | 0.210 | 80.00 | 0.97 | 0.11 |
| | | 5200 | 0.171 | 0.210 | 81.43 | 0.89 | 0.10 |
| | | 5240 | 0.169 | 0.210 | 80.48 | 0.94 | 0.10 |
| 802.11ac (VHT40) | SISO | 5190 | 0.093 | 0.134 | 69.40 | 1.59 | 0.11 |
| | | 5230 | 0.093 | 0.133 | 69.92 | 1.55 | 0.13 |
| 802.11ac (VHT80) | SISO | 5210 | 0.065 | 0.106 | 61.32 | 2.12 | 0.59 |



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 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

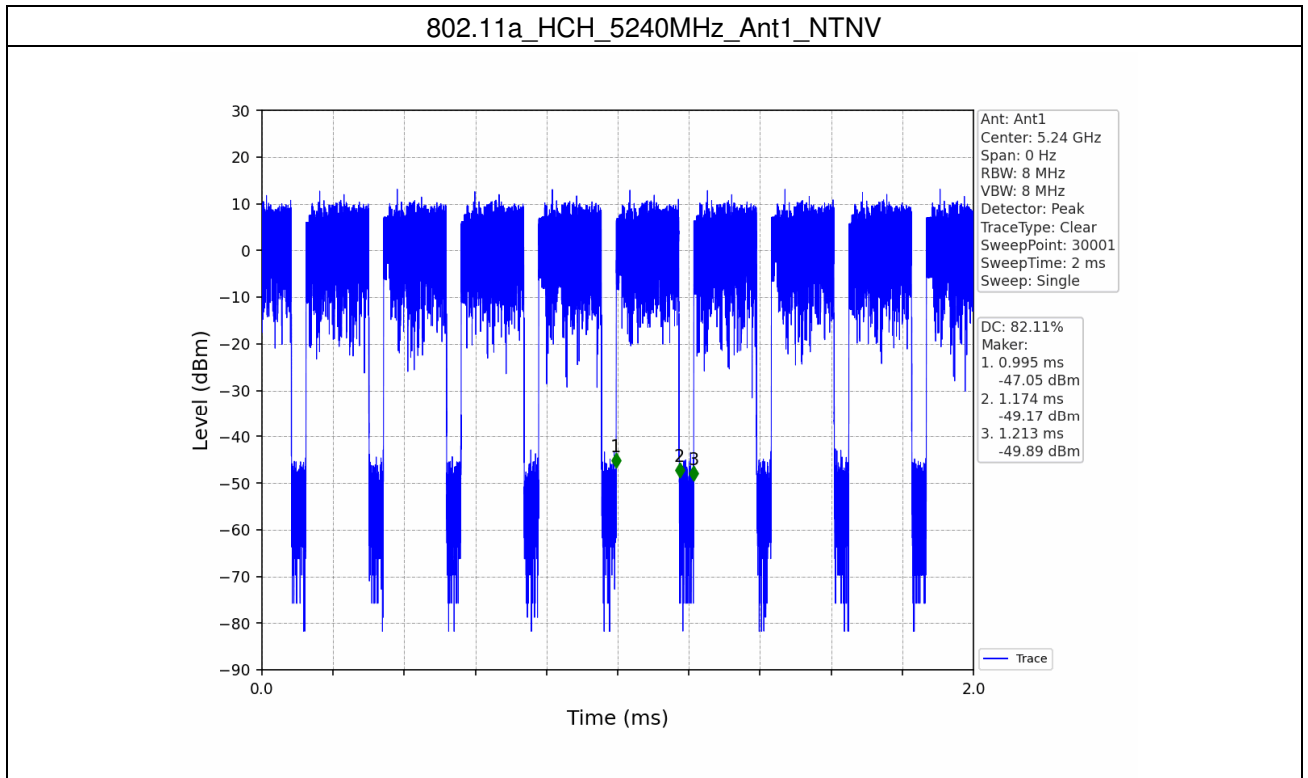
1.1.2 Test Graph



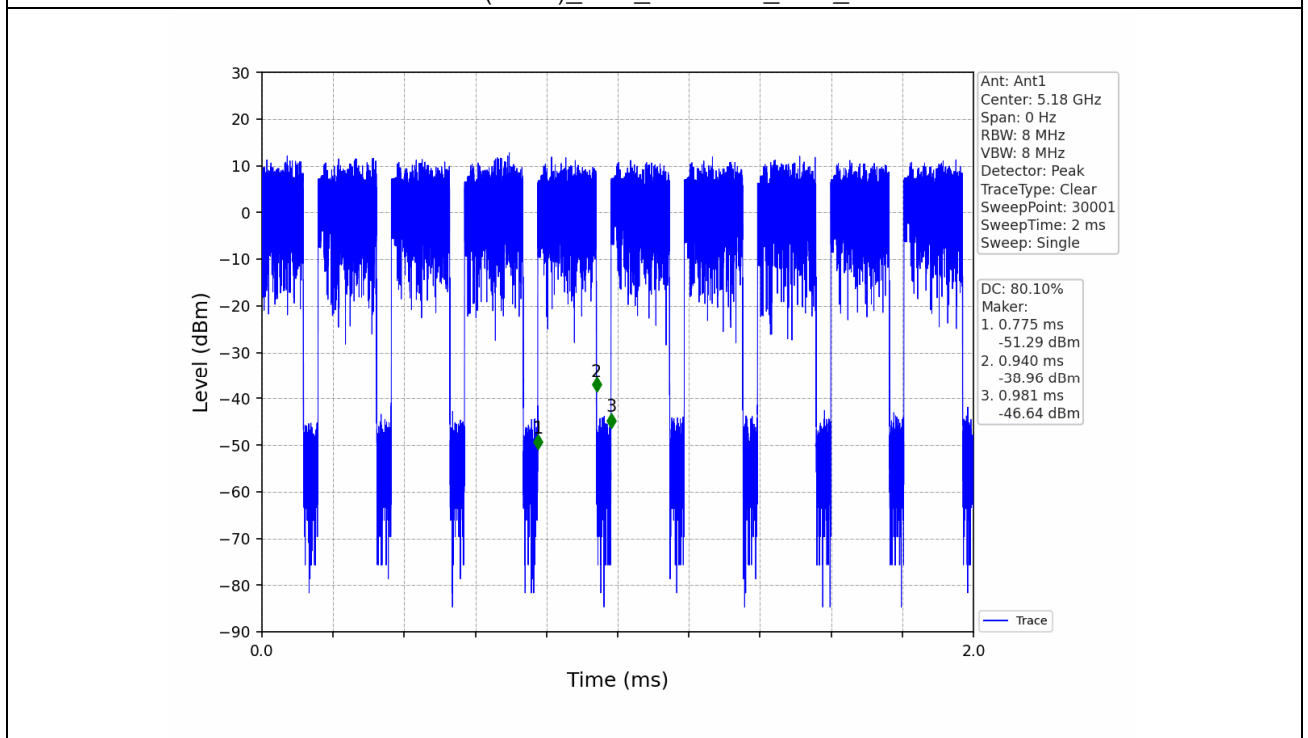
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802.11a_HCH_5240MHz_Ant1_NTNV

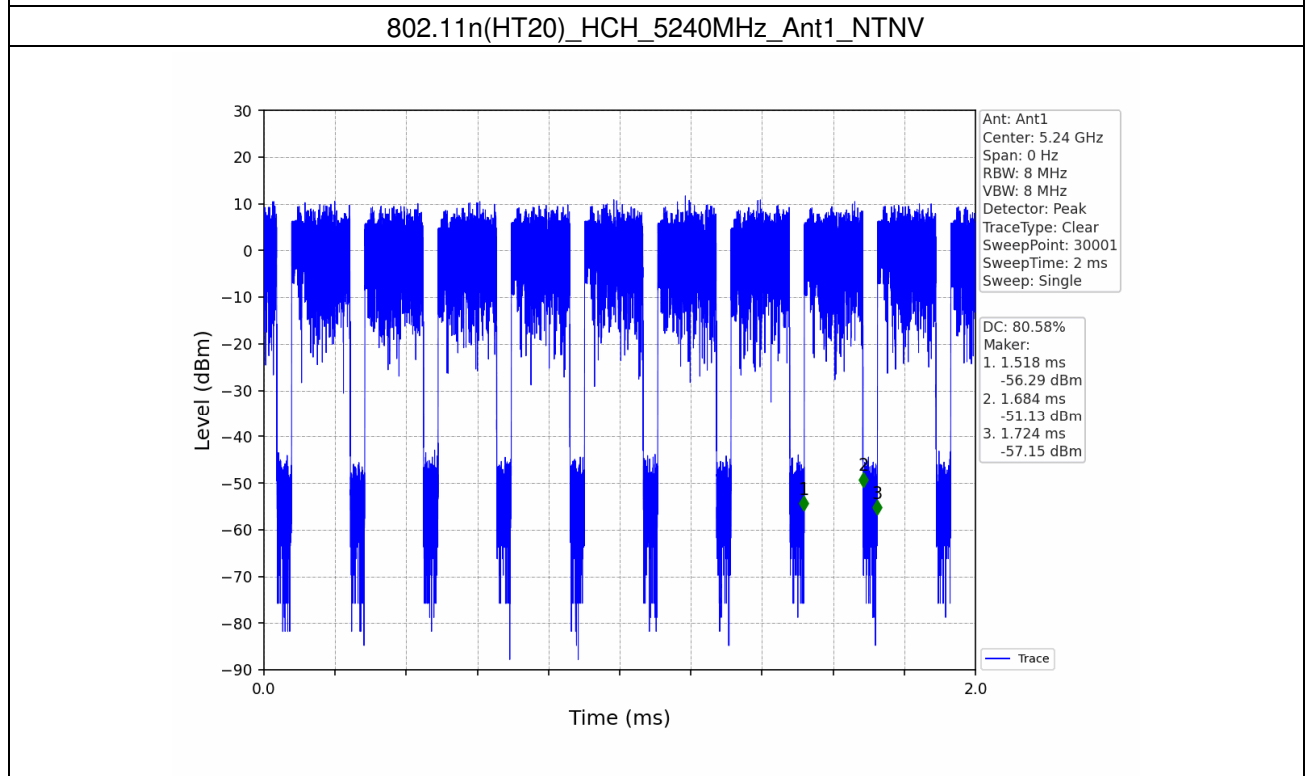
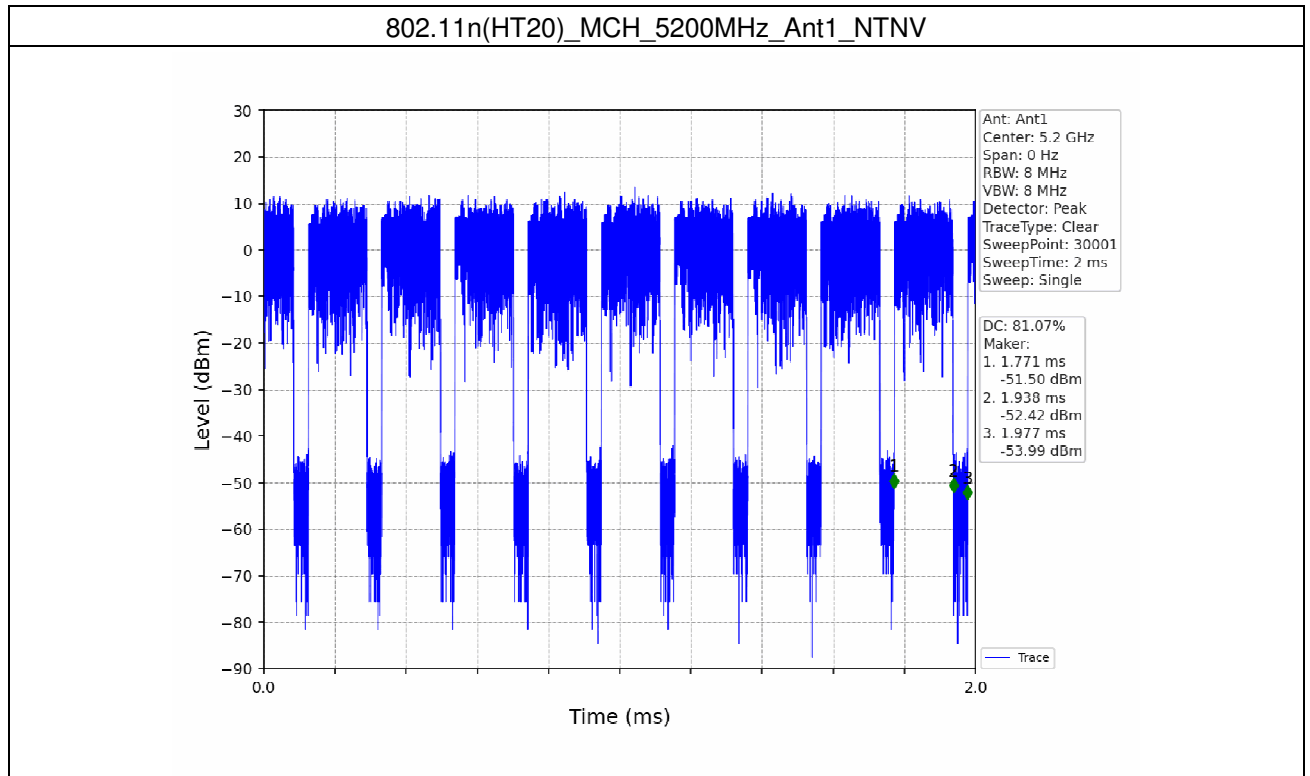


802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



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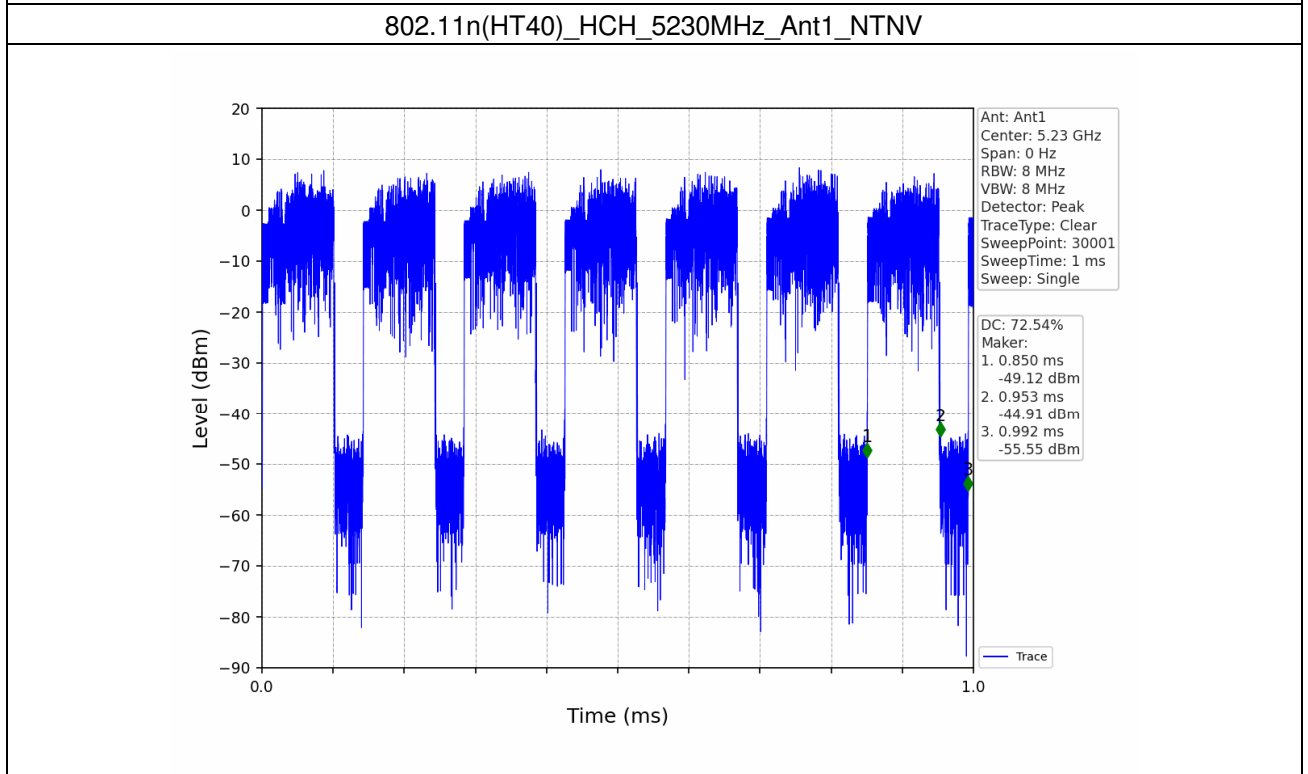
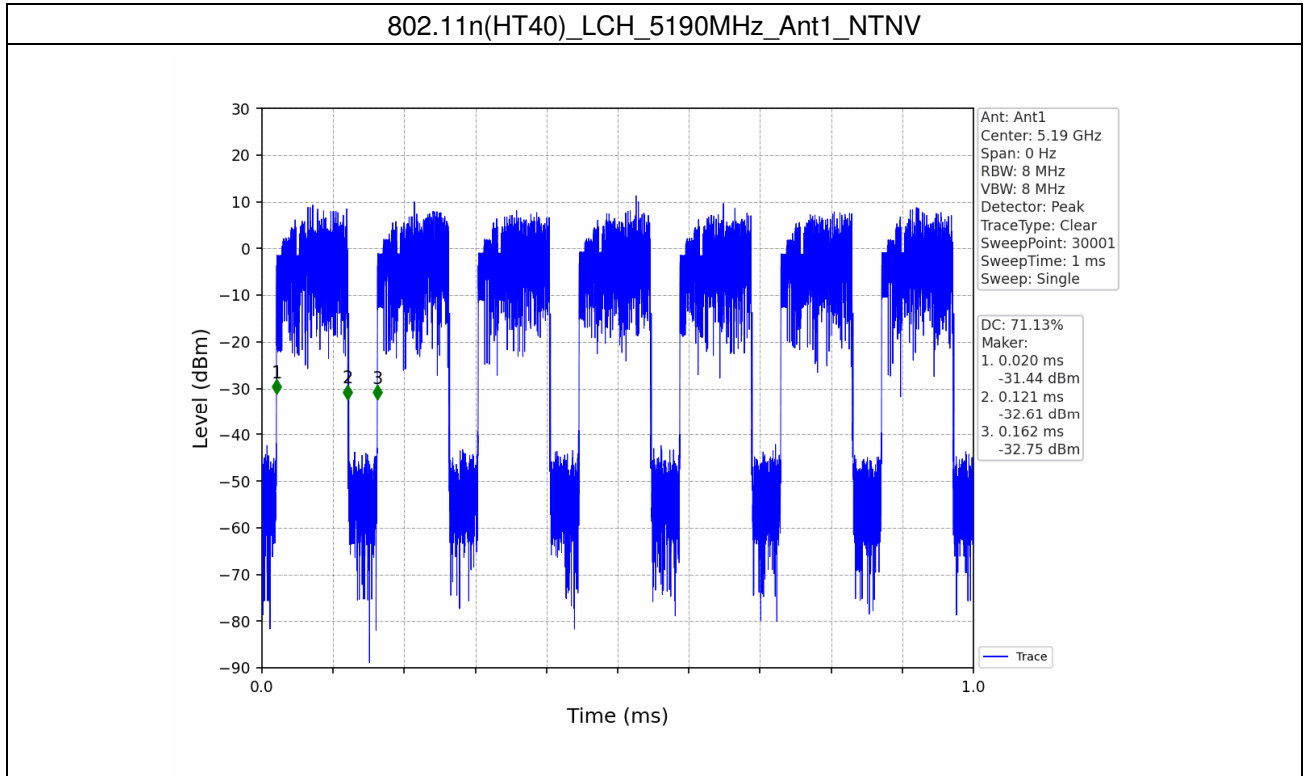
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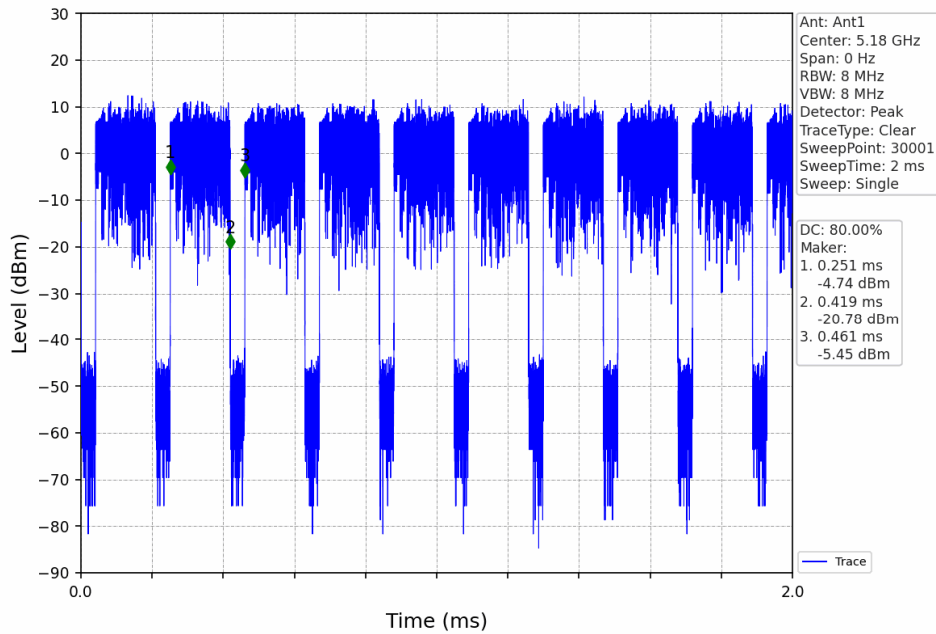
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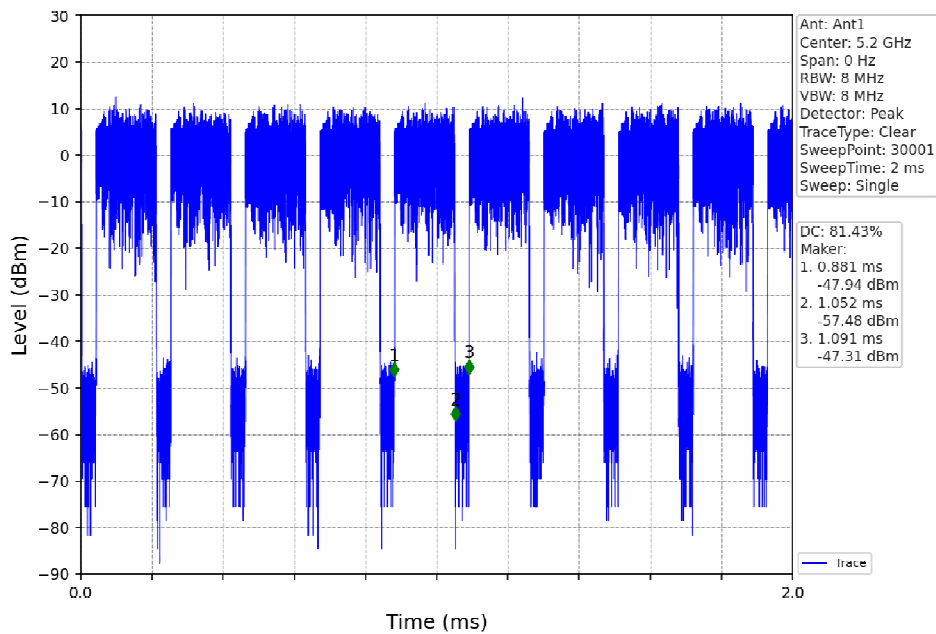


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802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



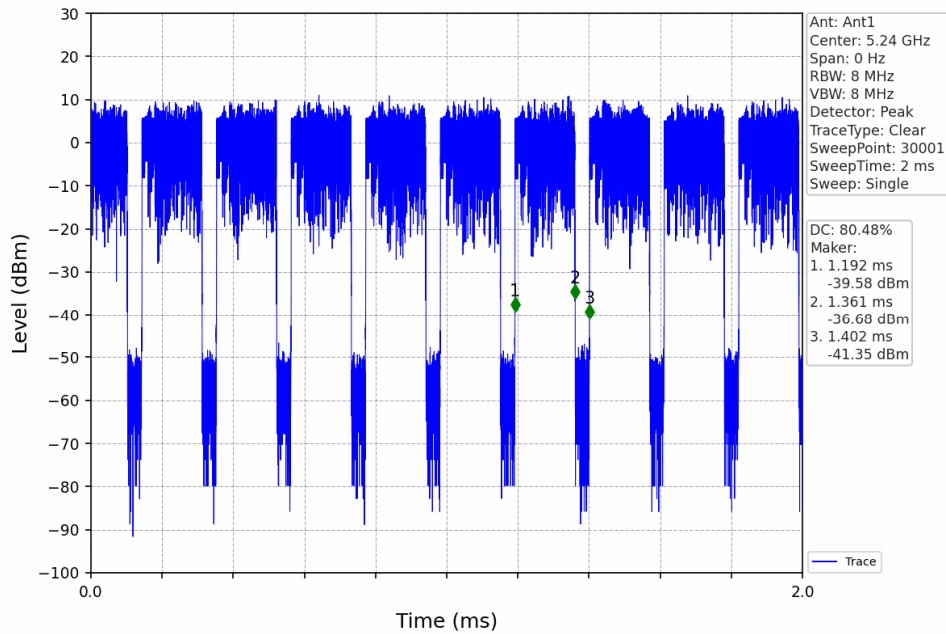
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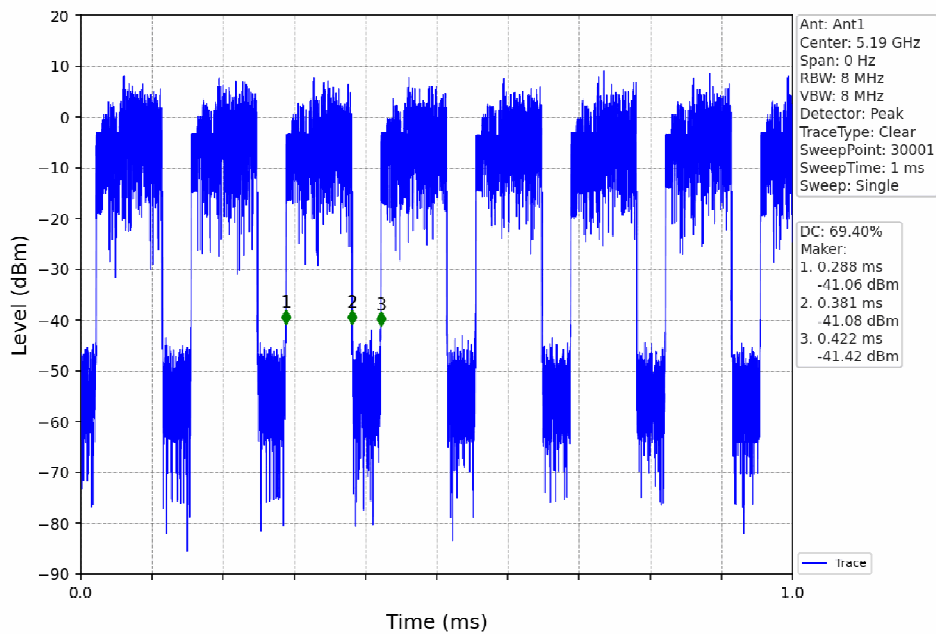
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802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV

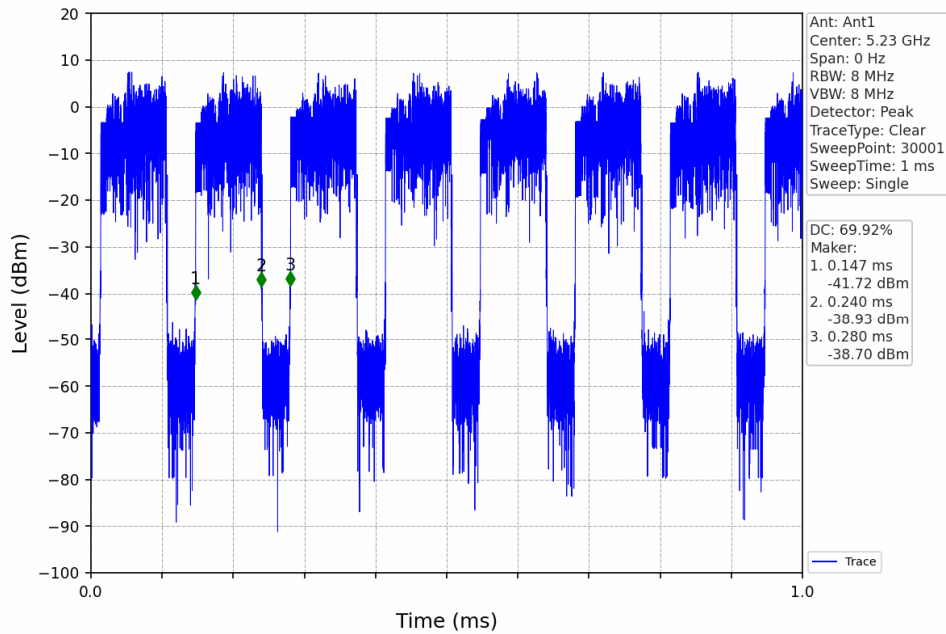


802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV

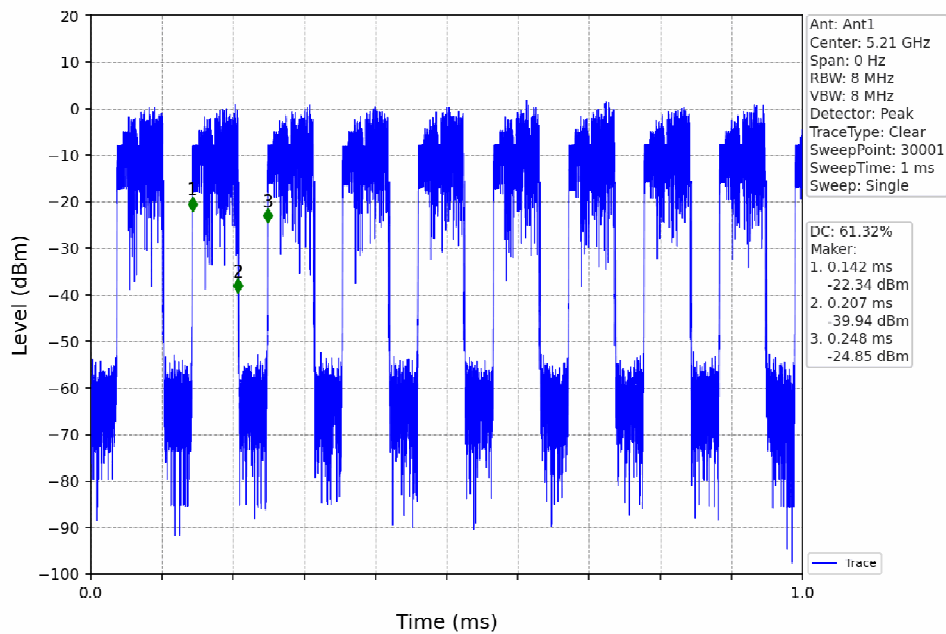


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802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



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2. Bandwidth

2.1 OBW

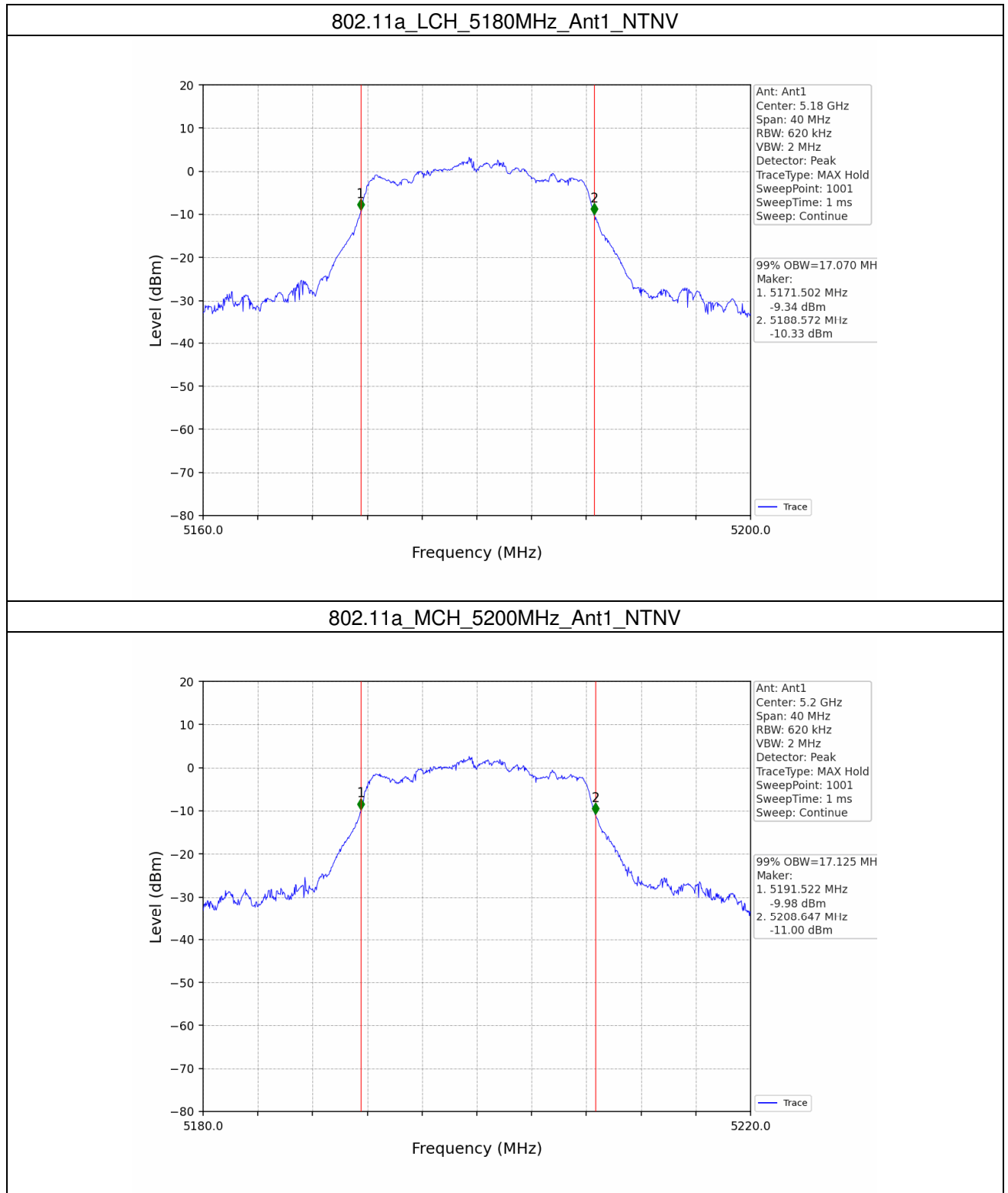
2.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | Ant | 99% Occupied Bandwidth (MHz) | Verdict |
|------------------|---------|-----------------|-----|------------------------------|---------|
| | | | | Result | |
| 802.11a | SISO | 5180 | 1 | 17.070 | Pass |
| | | 5200 | 1 | 17.125 | Pass |
| | | 5240 | 1 | 17.021 | Pass |
| 802.11n (HT20) | SISO | 5180 | 1 | 18.381 | Pass |
| | | 5200 | 1 | 18.370 | Pass |
| | | 5240 | 1 | 18.260 | Pass |
| 802.11n (HT40) | SISO | 5190 | 1 | 36.958 | Pass |
| | | 5230 | 1 | 36.711 | Pass |
| 802.11ac (VHT20) | SISO | 5180 | 1 | 18.545 | Pass |
| | | 5200 | 1 | 19.011 | Pass |
| | | 5240 | 1 | 18.472 | Pass |
| 802.11ac (VHT40) | SISO | 5190 | 1 | 36.890 | Pass |
| | | 5230 | 1 | 37.209 | Pass |
| 802.11ac (VHT80) | SISO | 5210 | 1 | 75.691 | Pass |



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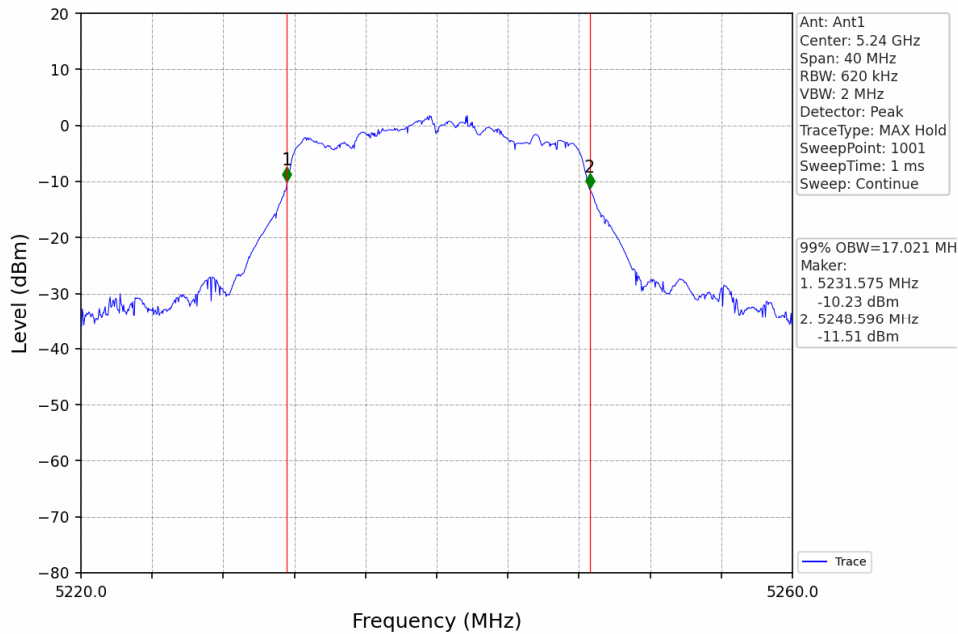
2.1.2 Test Graph



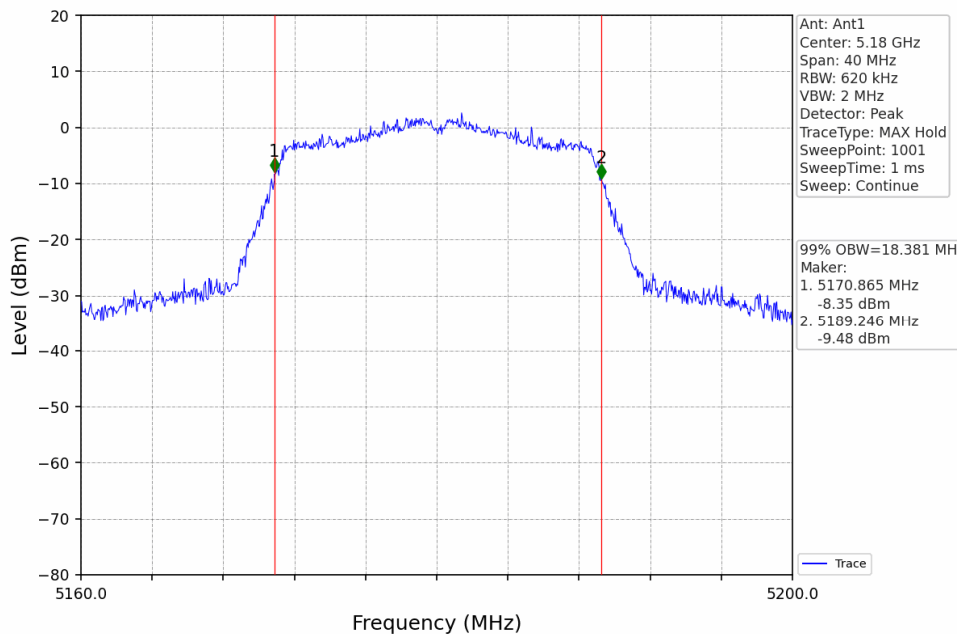
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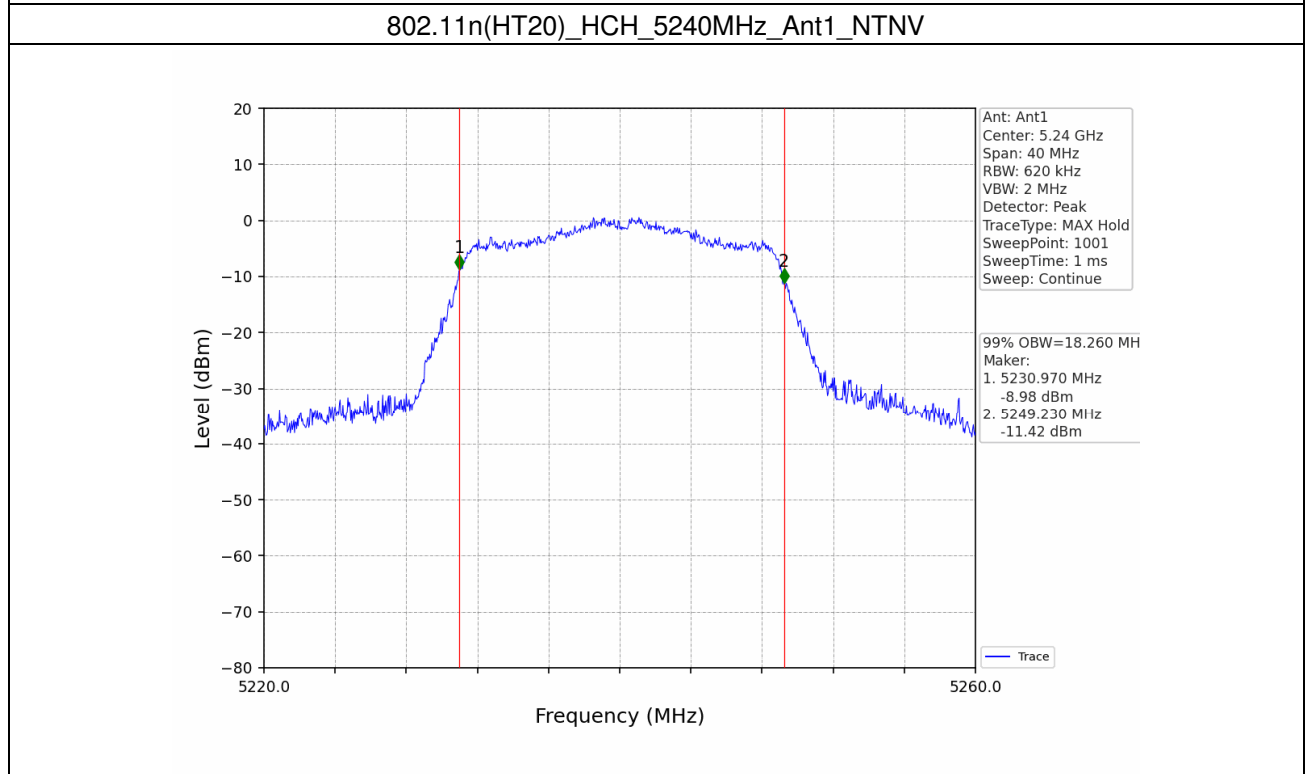
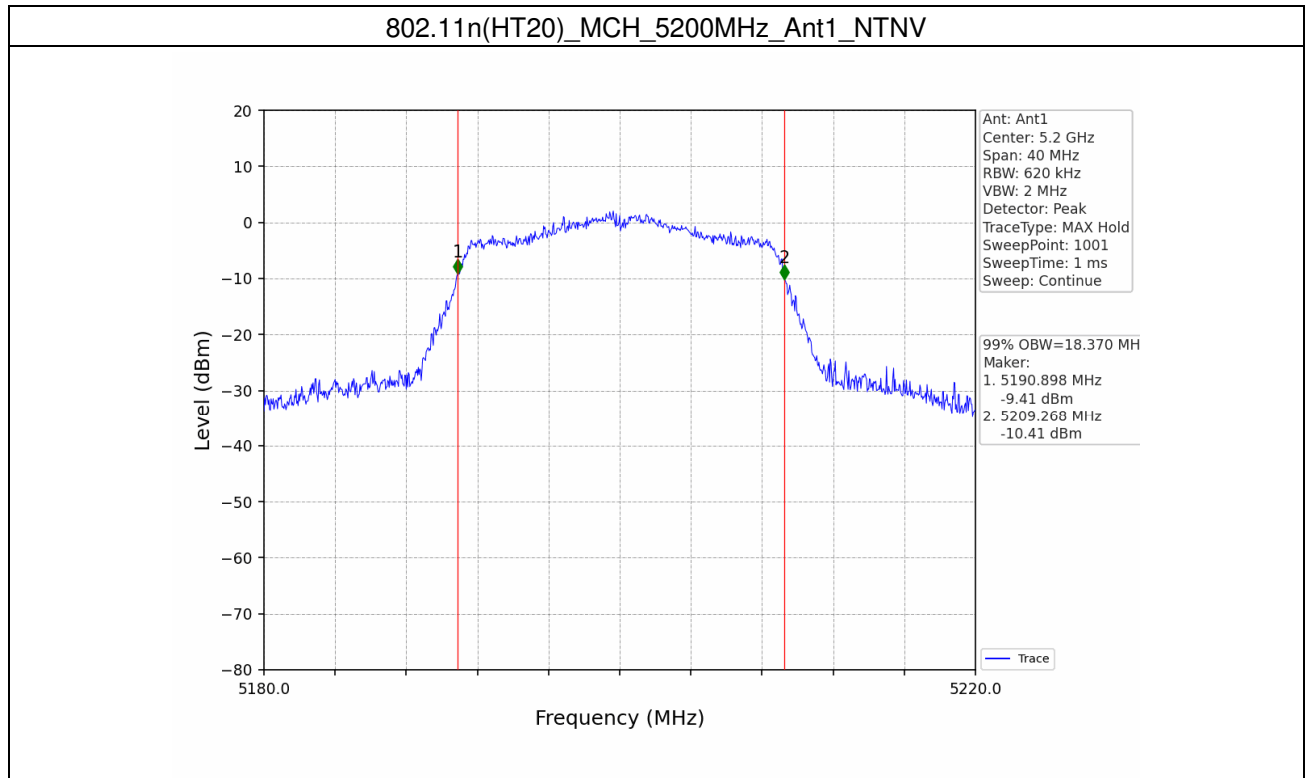
802.11a_HCH_5240MHz_Ant1_NTNV



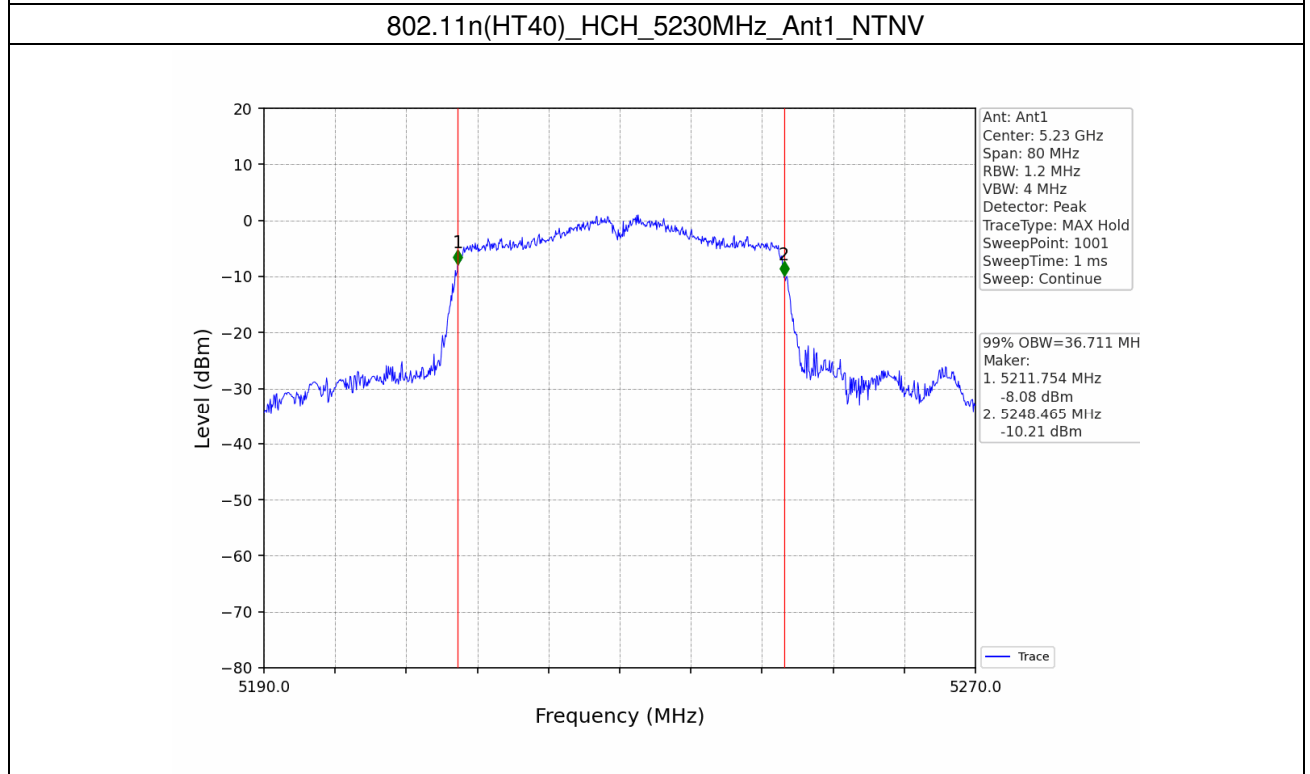
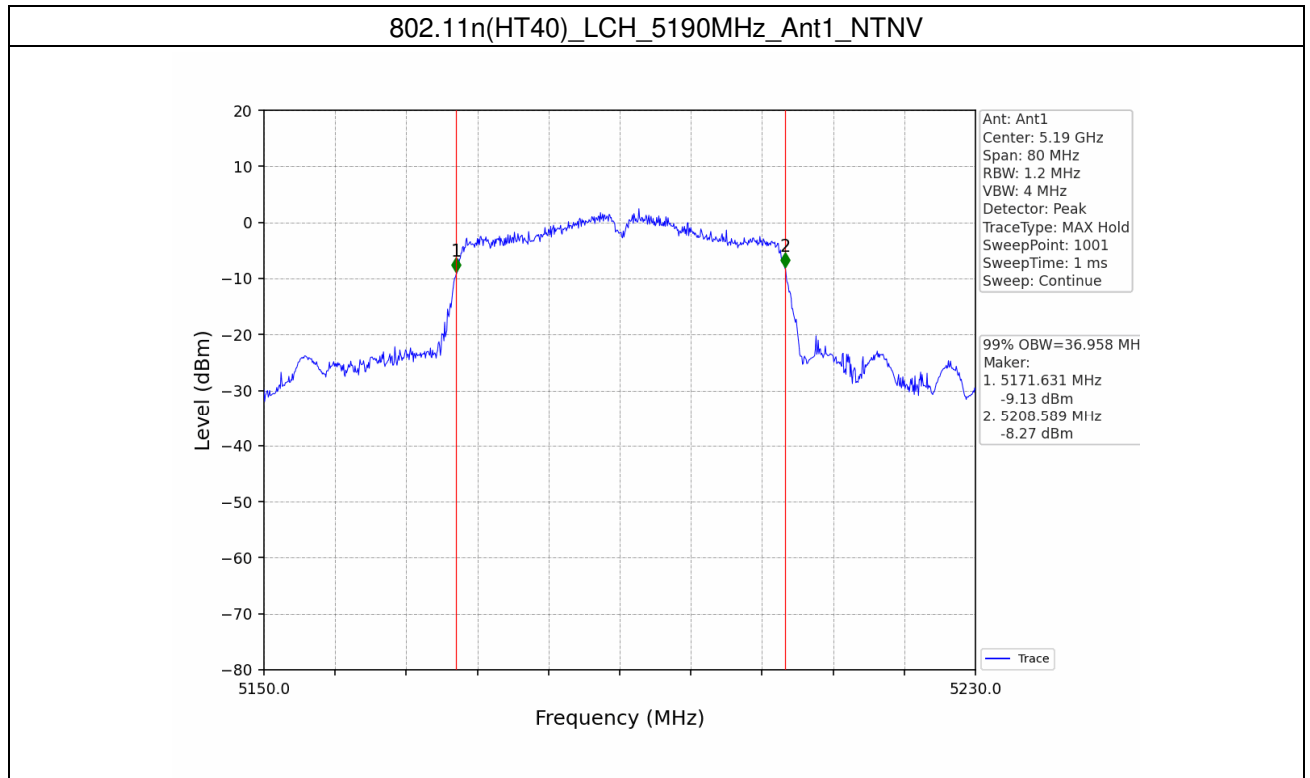
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



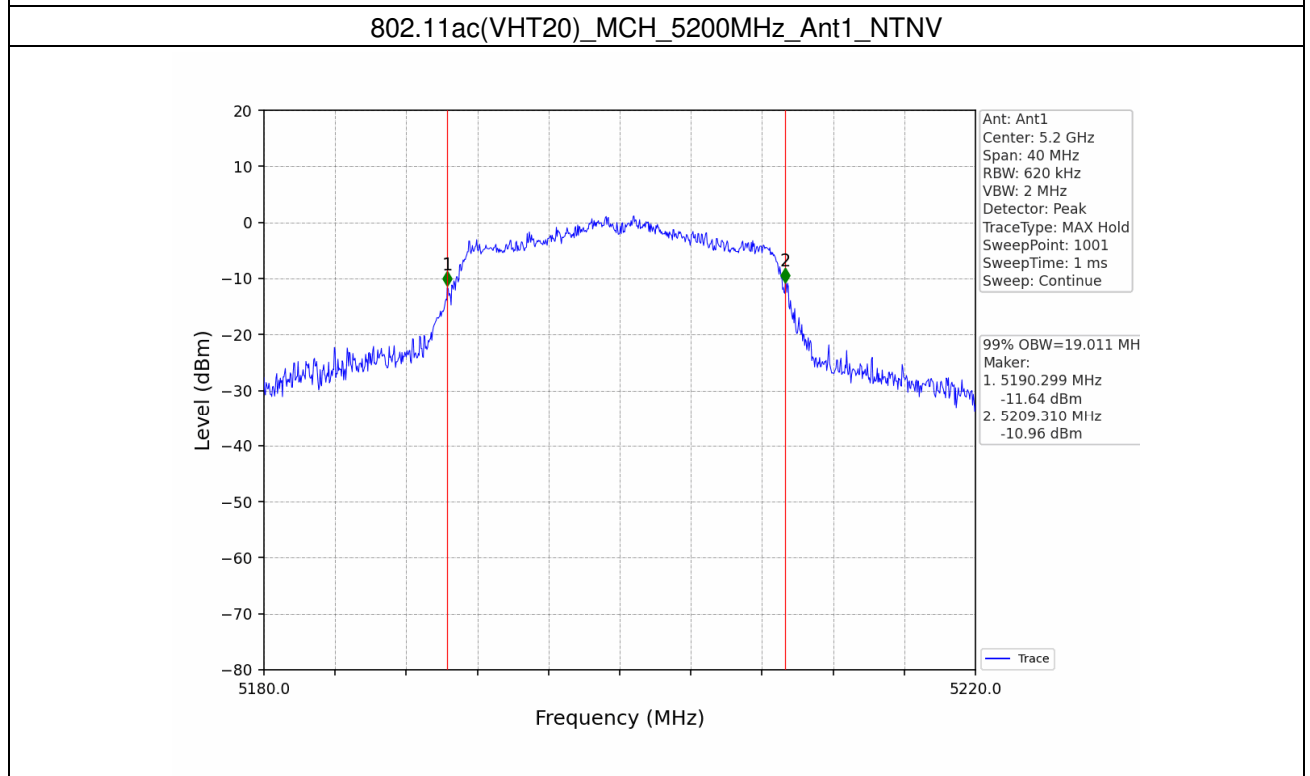
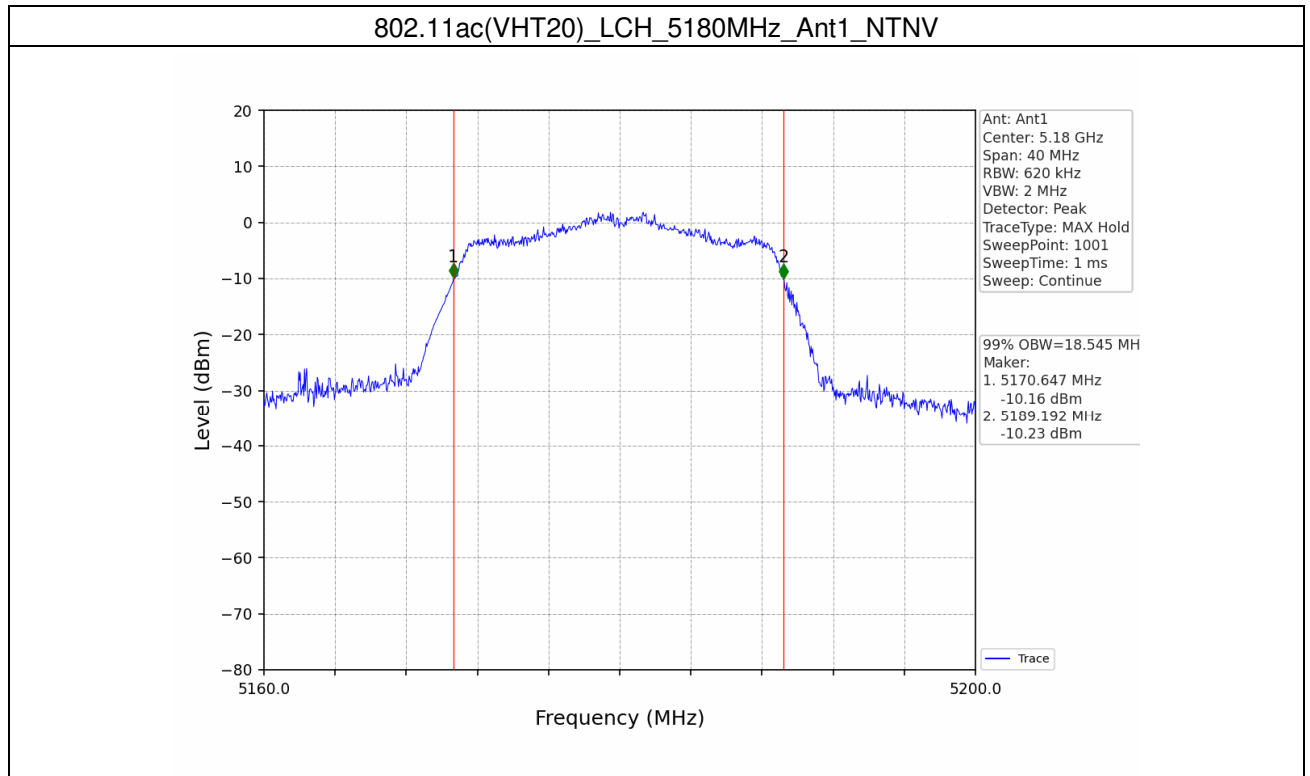
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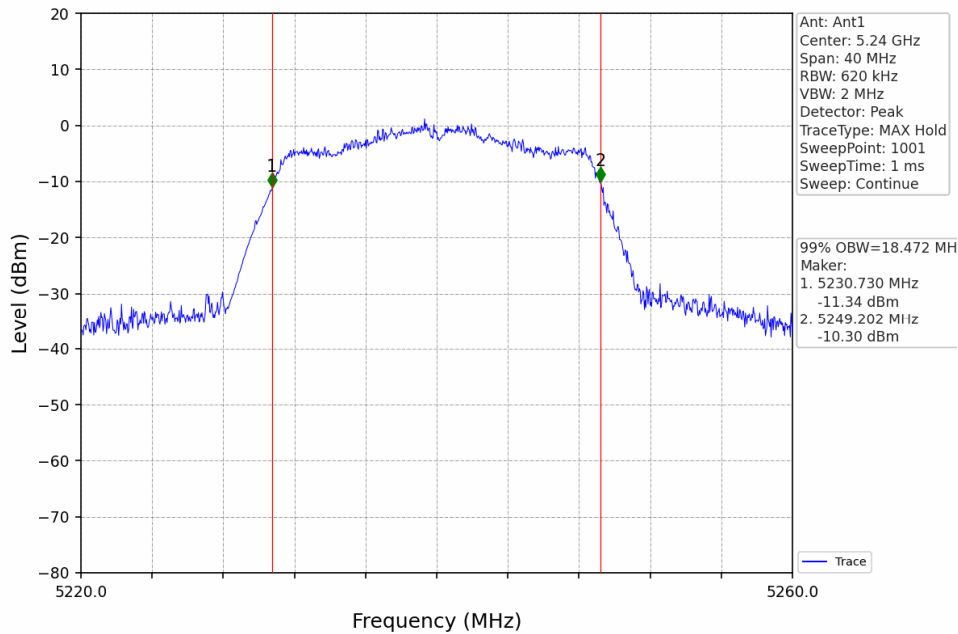


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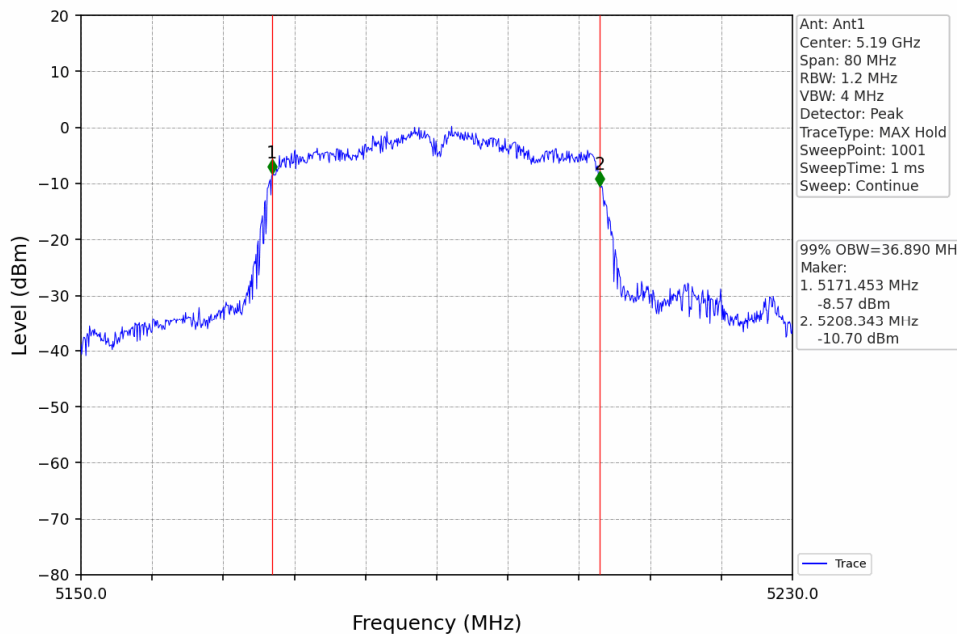


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802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV

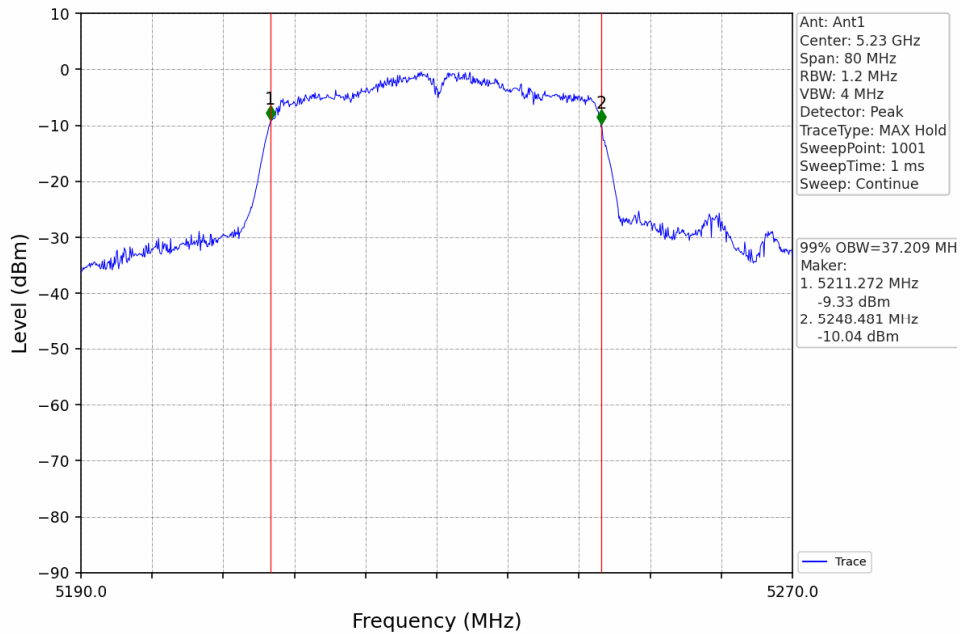


802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV

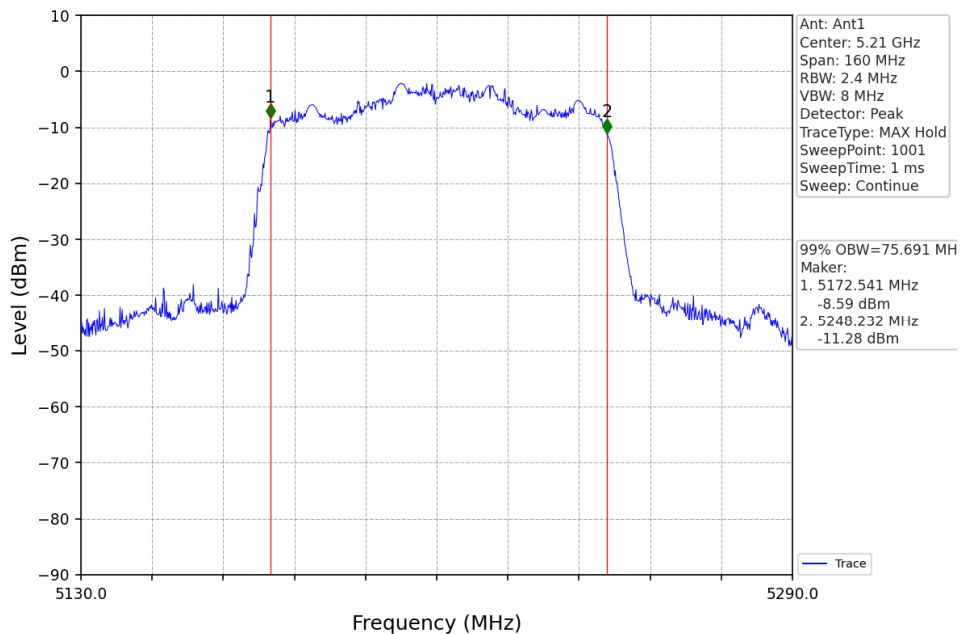


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802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



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2.2 26dB BW

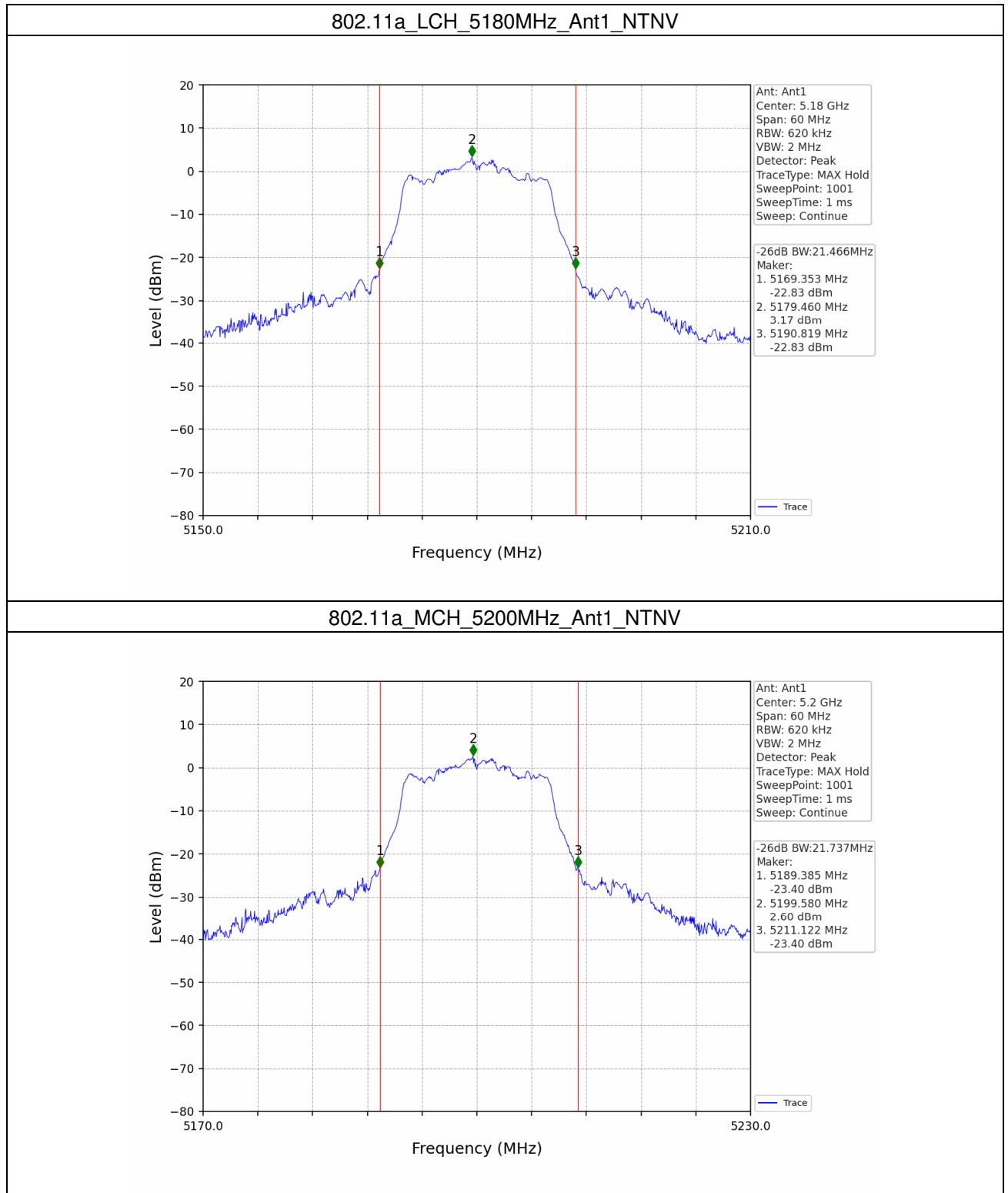
2.2.1 Test Result

| Mode | TX Type | Frequency (MHz) | Ant | 26dB Bandwidth (MHz) | Verdict |
|------------------|---------|-----------------|-----|----------------------|---------|
| | | | | Result | |
| 802.11a | SISO | 5180 | 1 | 21.466 | Pass |
| | | 5200 | 1 | 21.737 | Pass |
| | | 5240 | 1 | 21.524 | Pass |
| 802.11n (HT20) | SISO | 5180 | 1 | 21.975 | Pass |
| | | 5200 | 1 | 22.009 | Pass |
| | | 5240 | 1 | 21.938 | Pass |
| 802.11n (HT40) | SISO | 5190 | 1 | 59.476 | Pass |
| | | 5230 | 1 | 44.704 | Pass |
| 802.11ac (VHT20) | SISO | 5180 | 1 | 22.067 | Pass |
| | | 5200 | 1 | 23.087 | Pass |
| | | 5240 | 1 | 21.936 | Pass |
| 802.11ac (VHT40) | SISO | 5190 | 1 | 41.200 | Pass |
| | | 5230 | 1 | 53.136 | Pass |
| 802.11ac (VHT80) | SISO | 5210 | 1 | 83.337 | Pass |



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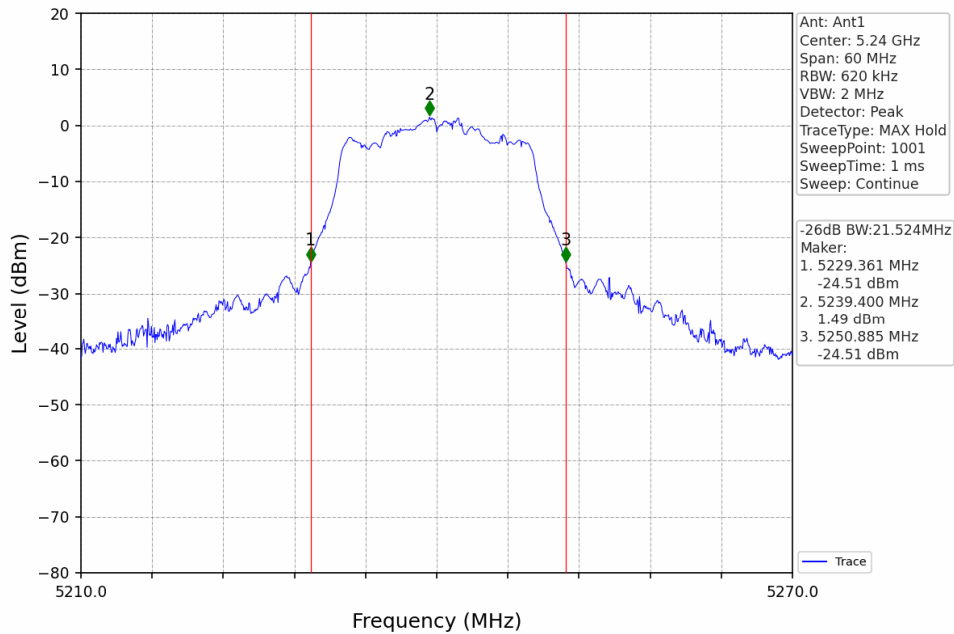
2.2.2 Test Graph



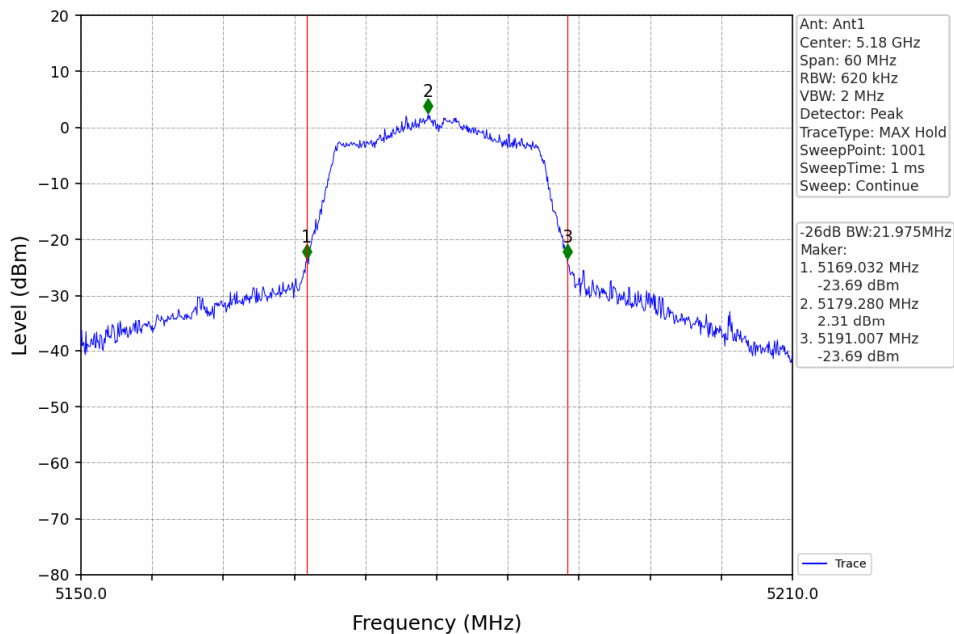
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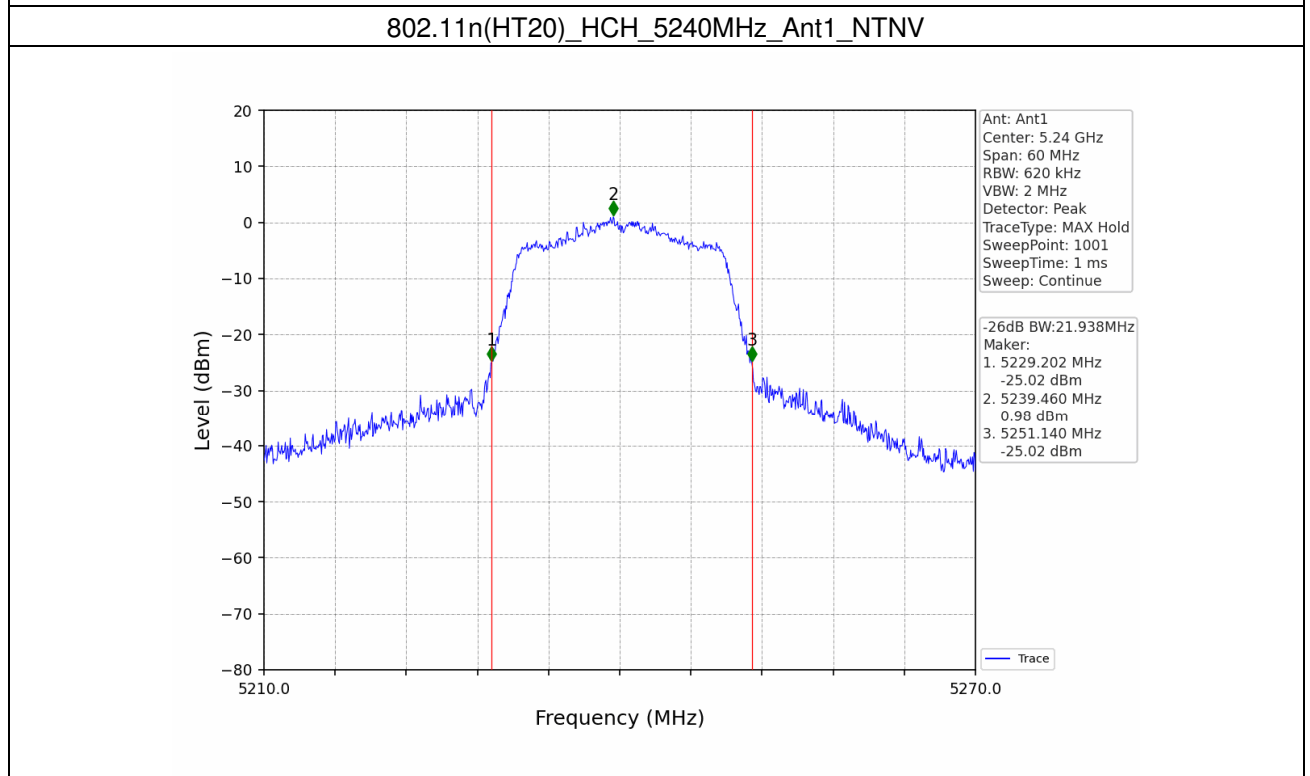
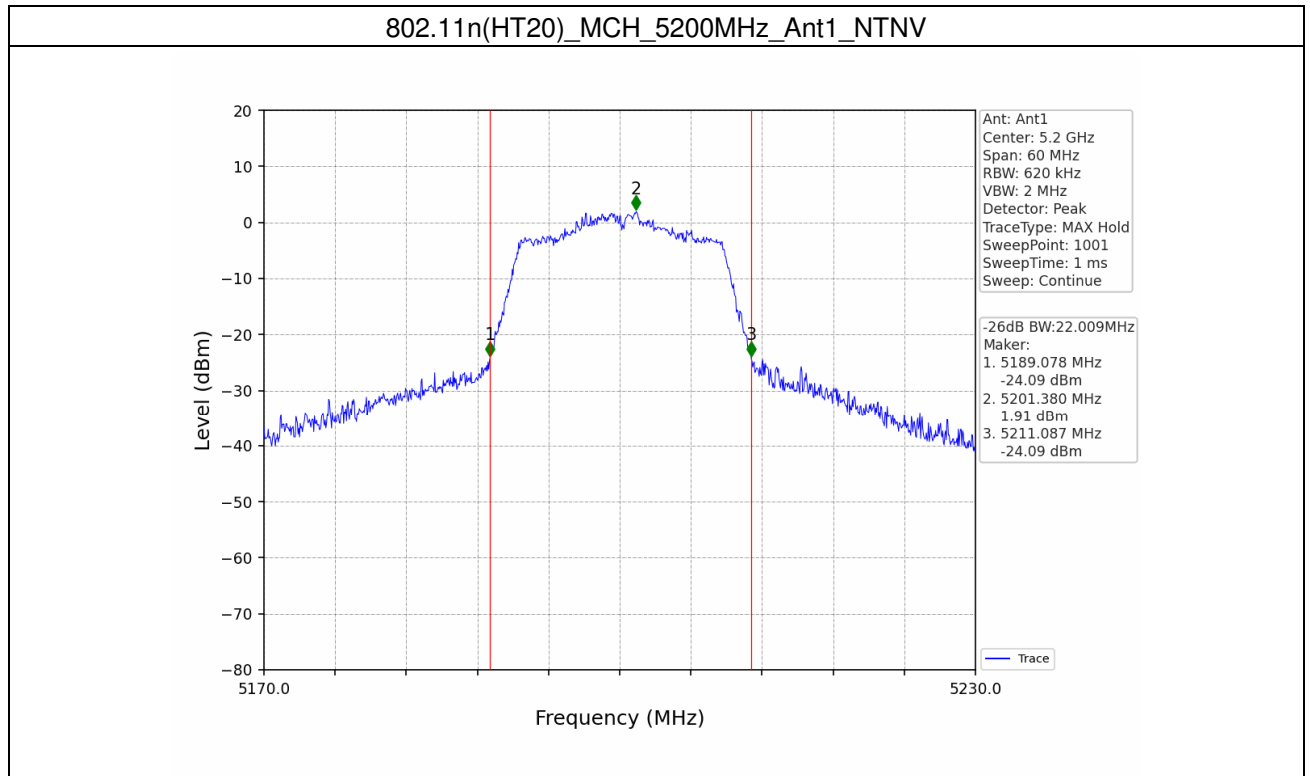
802.11a_HCH_5240MHz_Ant1_NTNV



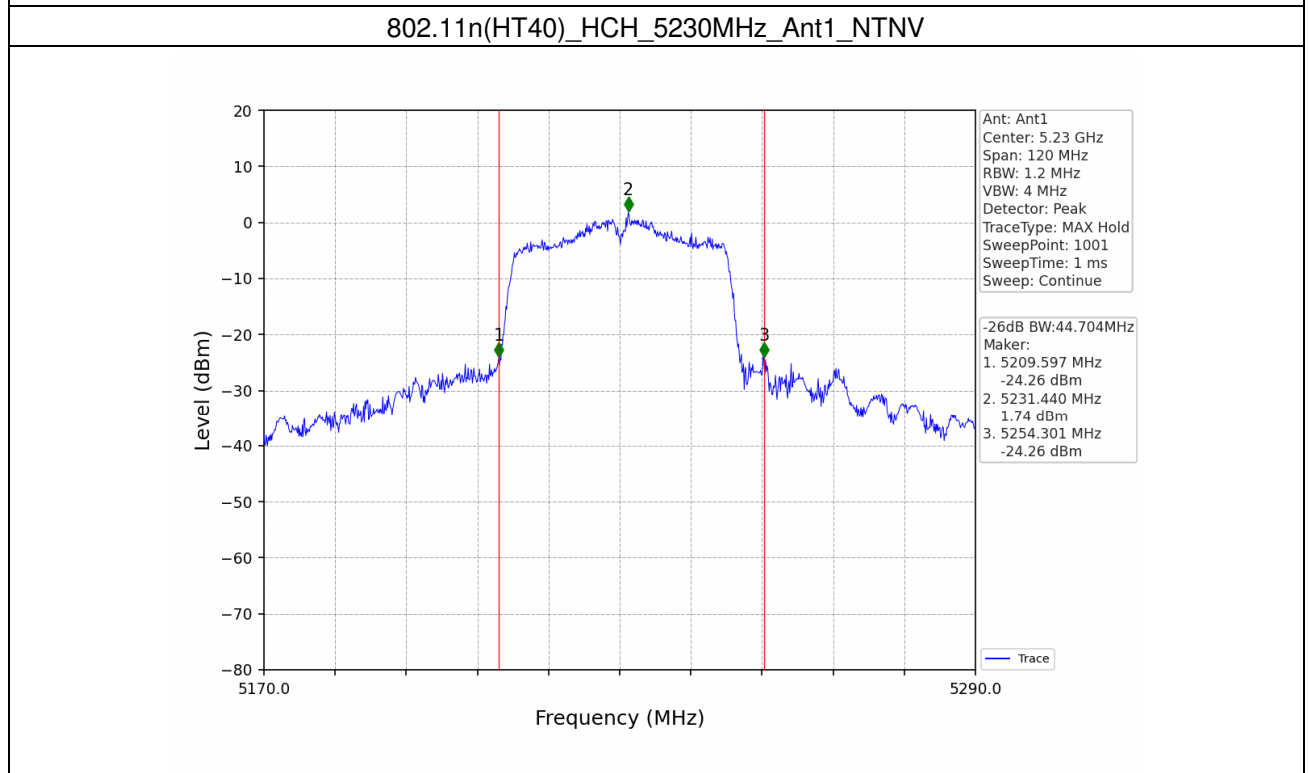
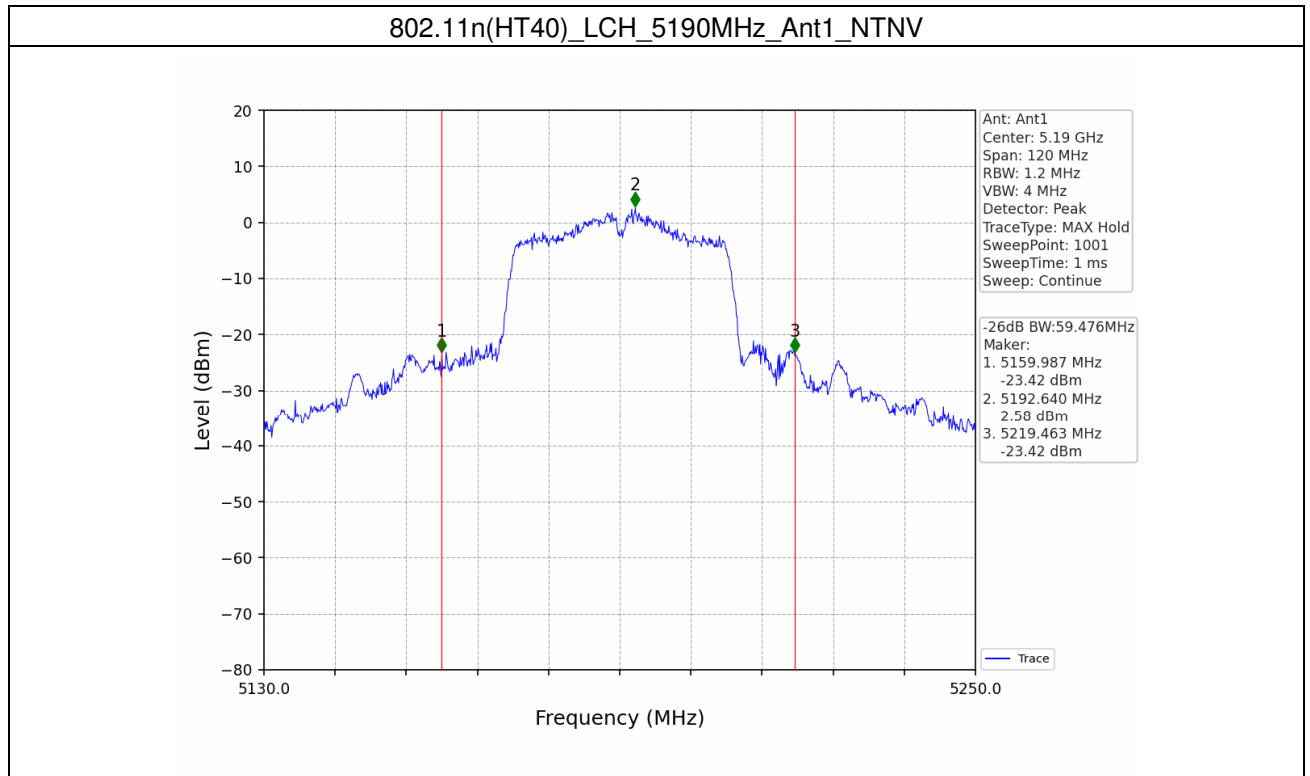
802.11n(HT20)_LCH_5180MHz_Ant1_NTNV



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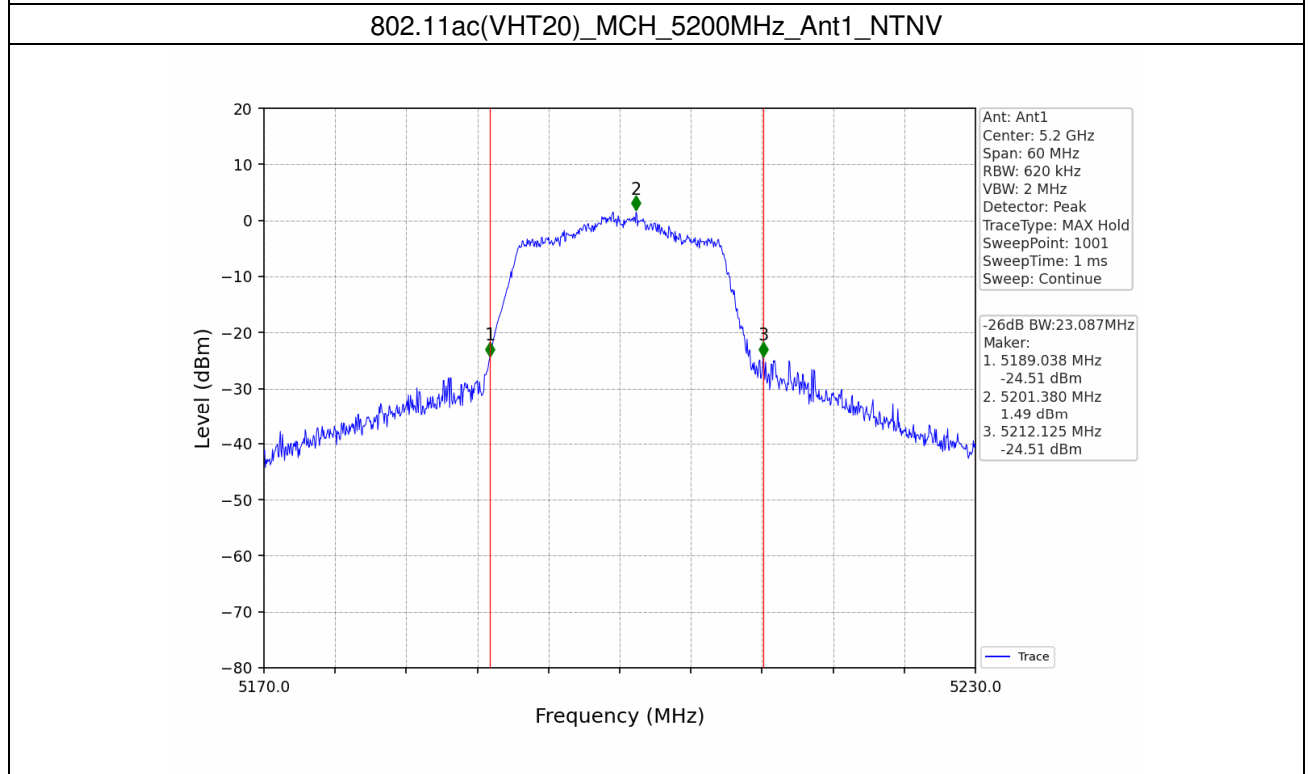
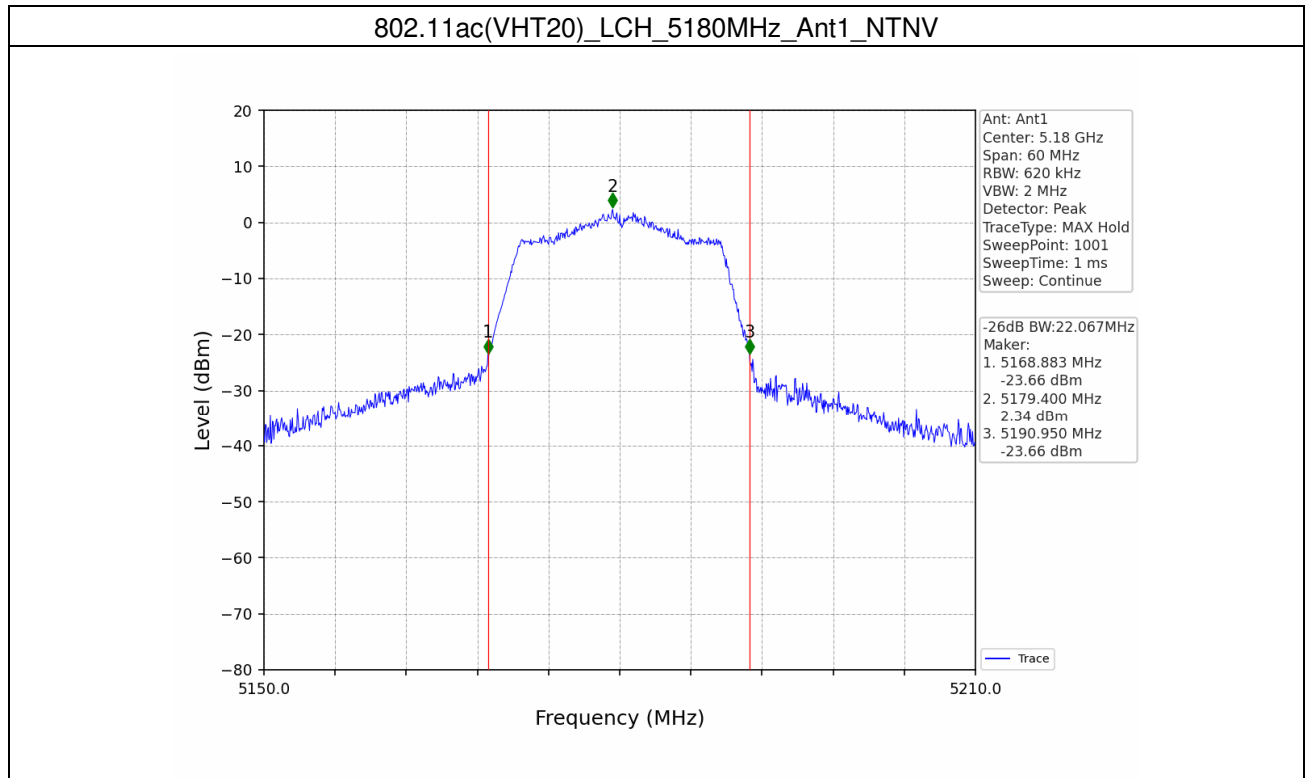


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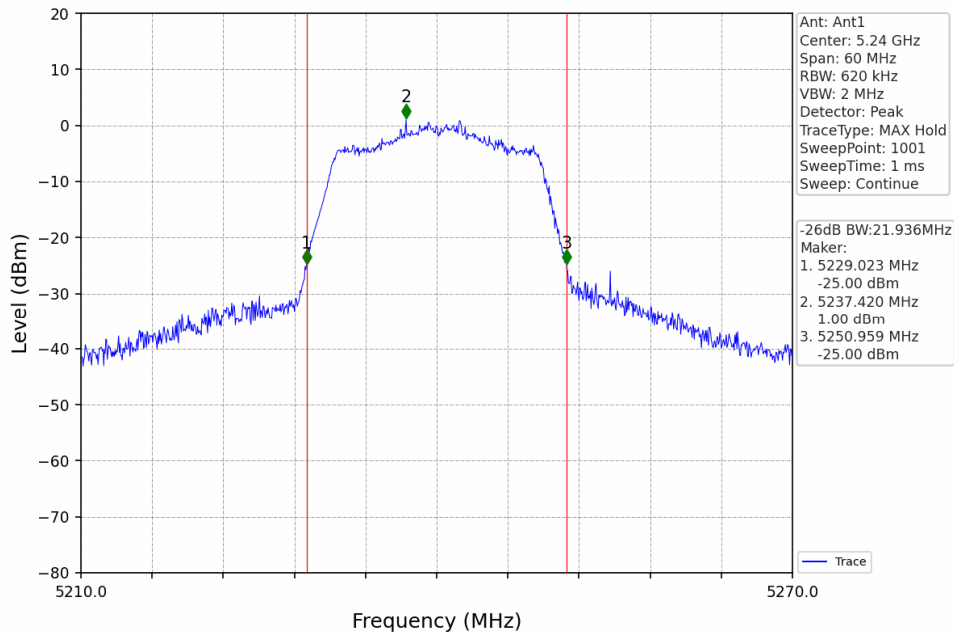
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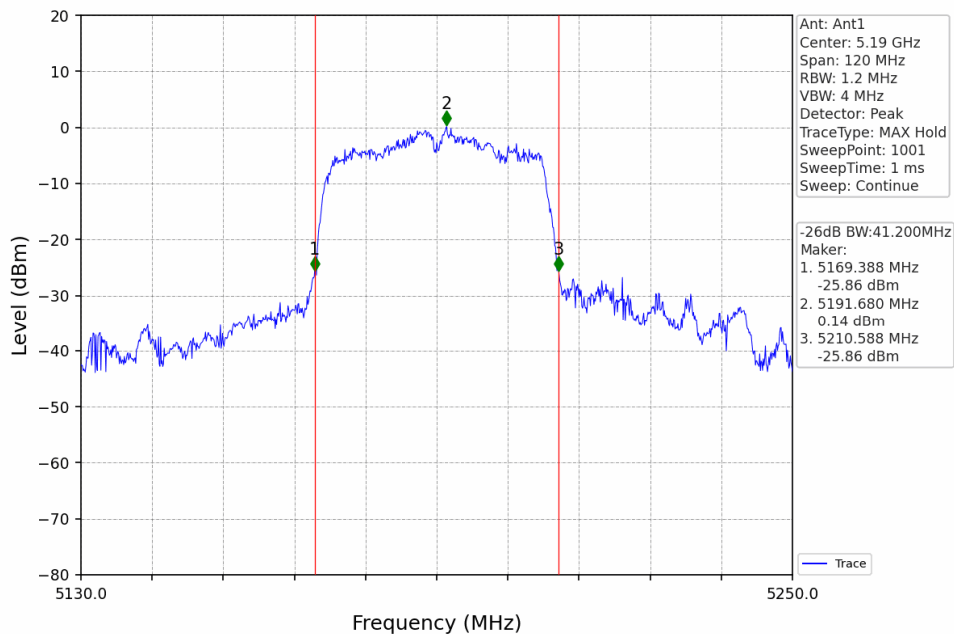
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802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



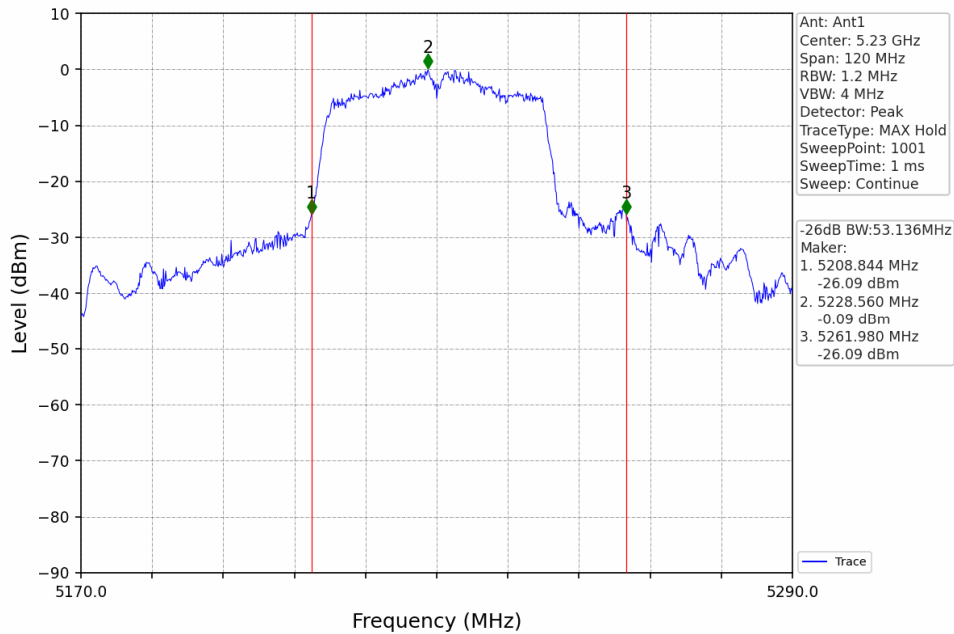
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



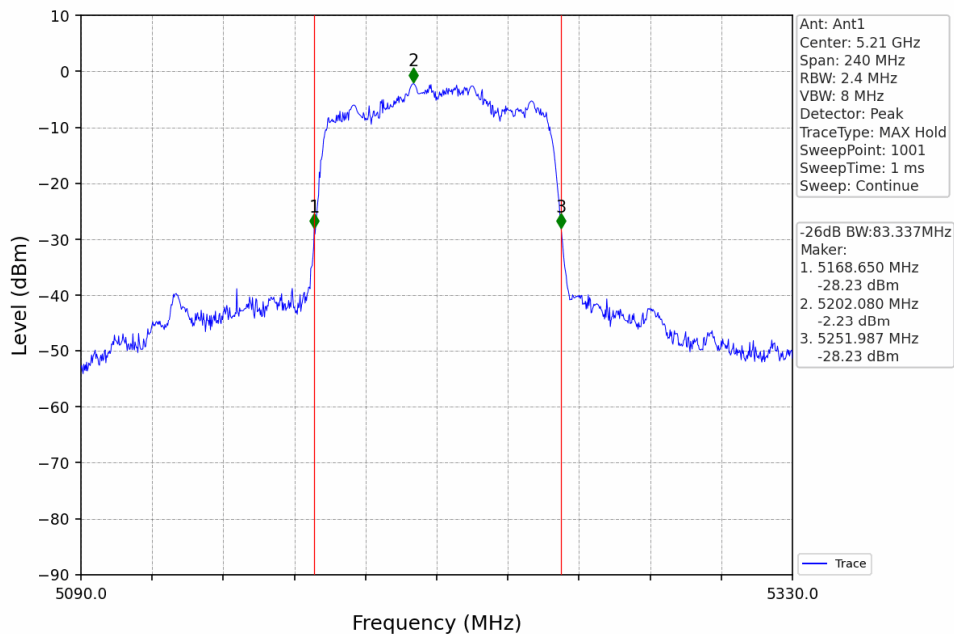
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802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) | | Verdict |
|------------------|---------|-----------------|--|---------|---------|
| | | | Ant1 | Limit | |
| 802.11a | SISO | 5180 | 6.31 | <=23.98 | Pass |
| | | 5200 | 5.93 | <=23.98 | Pass |
| | | 5240 | 5.21 | <=23.98 | Pass |
| 802.11n (HT20) | SISO | 5180 | 5.14 | <=23.98 | Pass |
| | | 5200 | 4.83 | <=23.98 | Pass |
| | | 5240 | 3.98 | <=23.98 | Pass |
| 802.11n (HT40) | SISO | 5190 | 4.66 | <=23.98 | Pass |
| | | 5230 | 3.40 | <=23.98 | Pass |
| 802.11ac (VHT20) | SISO | 5180 | 4.86 | <=23.98 | Pass |
| | | 5200 | 4.32 | <=23.98 | Pass |
| | | 5240 | 3.72 | <=23.98 | Pass |
| 802.11ac (VHT40) | SISO | 5190 | 3.21 | <=23.98 | Pass |
| | | 5230 | 2.69 | <=23.98 | Pass |
| 802.11ac (VHT80) | SISO | 5210 | 0.14 | <=23.98 | Pass |

4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | Maximum PSD (dBm/MHz) | | Verdict |
|------------------|---------|-----------------|-----------------------|-------|---------|
| | | | Ant1 | Limit | |
| 802.11a | SISO | 5180 | -3.02 | <=11 | Pass |
| | | 5200 | -3.54 | <=11 | Pass |
| | | 5240 | -4.20 | <=11 | Pass |
| 802.11n (HT20) | SISO | 5180 | -4.44 | <=11 | Pass |
| | | 5200 | -4.63 | <=11 | Pass |
| | | 5240 | -5.81 | <=11 | Pass |
| 802.11n (HT40) | SISO | 5190 | -8.07 | <=11 | Pass |
| | | 5230 | -9.23 | <=11 | Pass |
| 802.11ac (VHT20) | SISO | 5180 | -4.98 | <=11 | Pass |
| | | 5200 | -5.44 | <=11 | Pass |



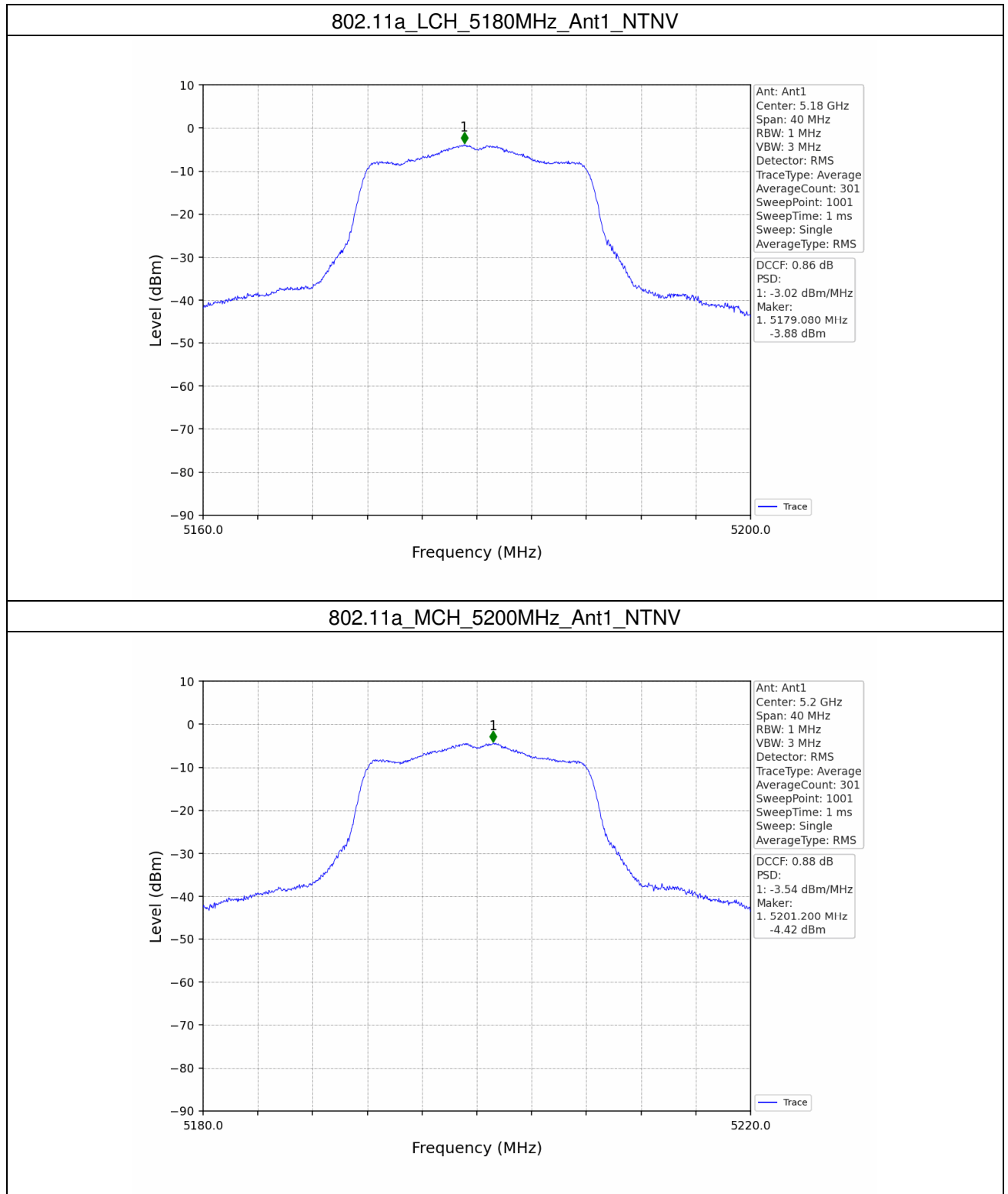
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| | | | | | |
|---------------------|------|------|--------|------|------|
| | | 5240 | -5.63 | <=11 | Pass |
| 802.11ac (VHT40) | SISO | 5190 | -9.54 | <=11 | Pass |
| | | 5230 | -10.15 | <=11 | Pass |
| 802.11ac (VHT80) | SISO | 5210 | -15.44 | <=11 | Pass |



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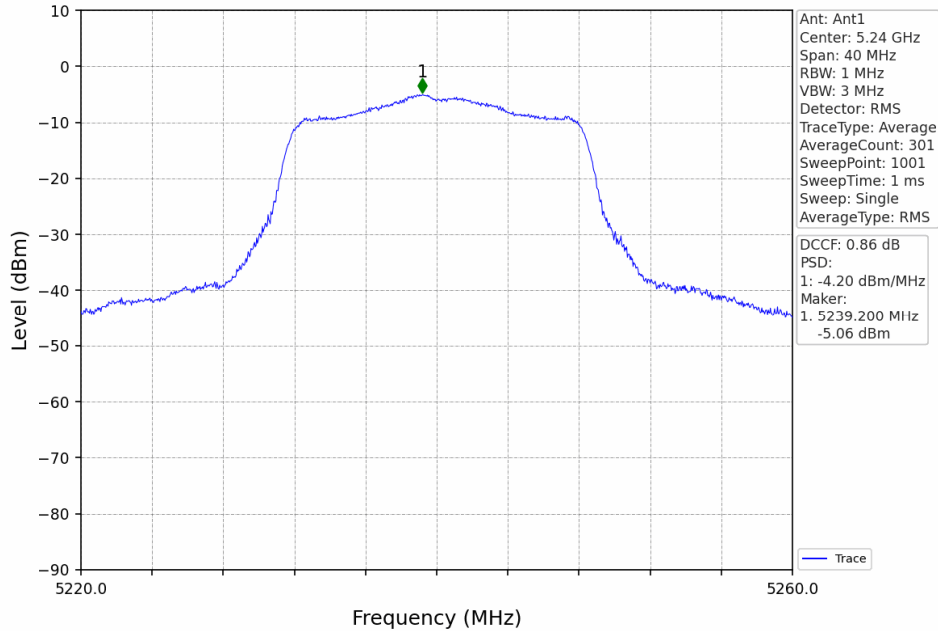
4.1.2 Test Graph



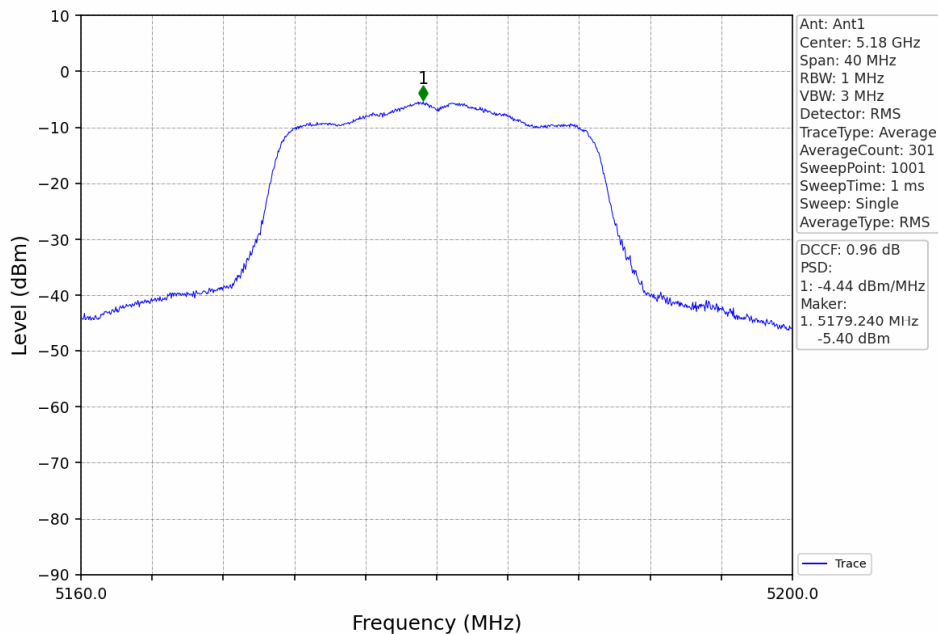
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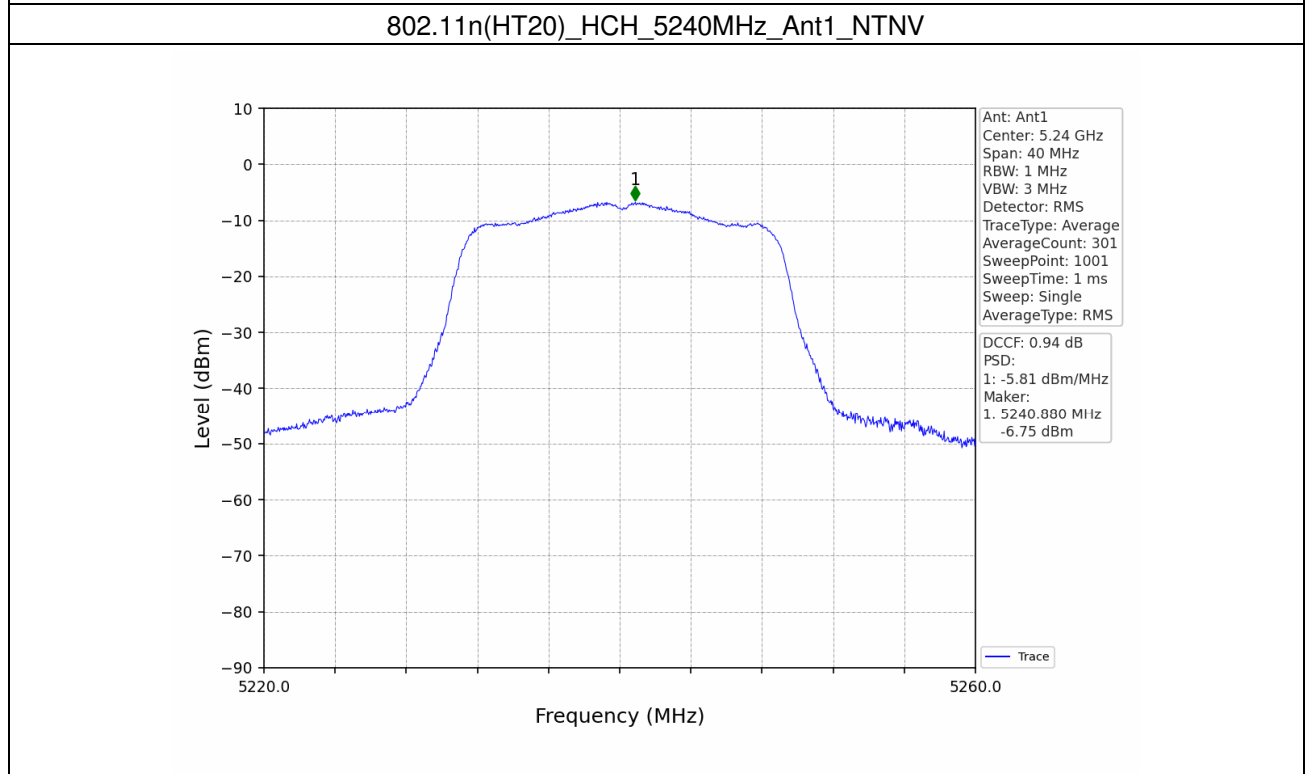
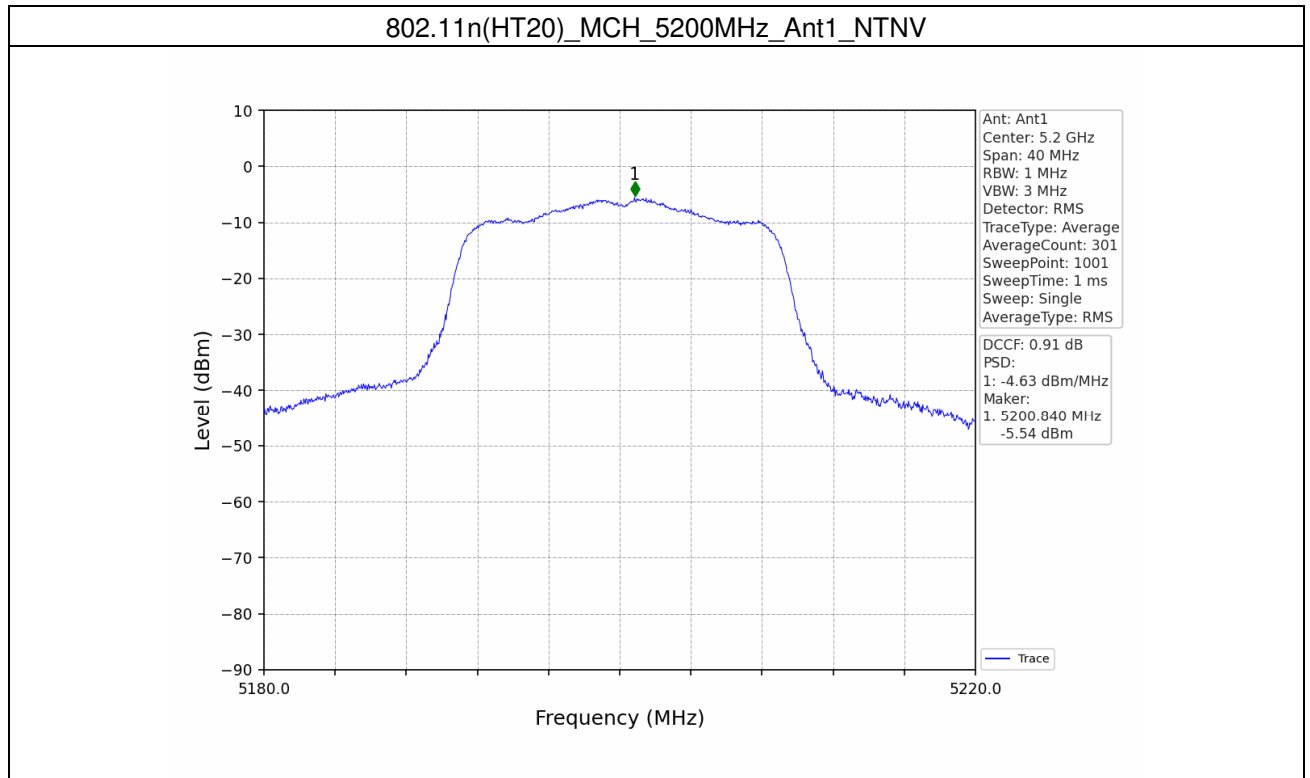
802.11a_HCH_5240MHz_Ant1_NTNV



802.11n(HT20)_LCH_5180MHz_Ant1_NTNV

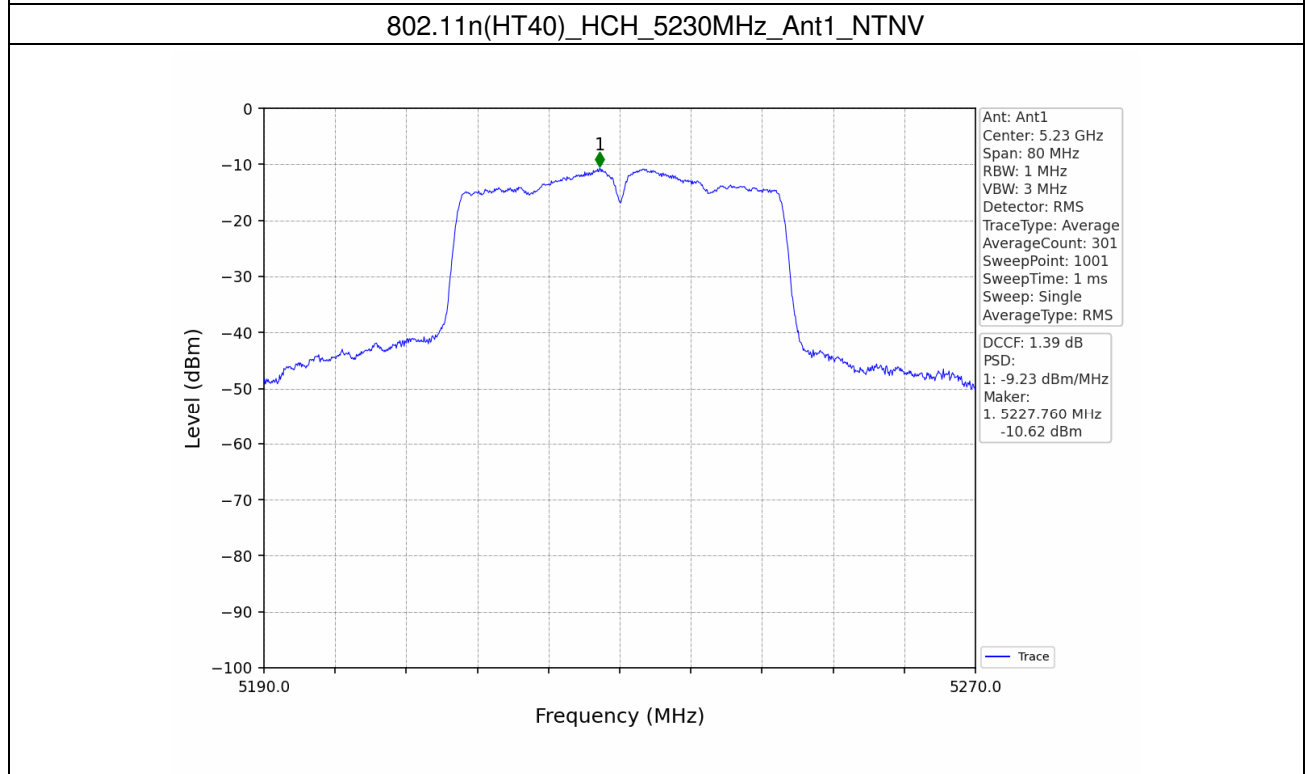
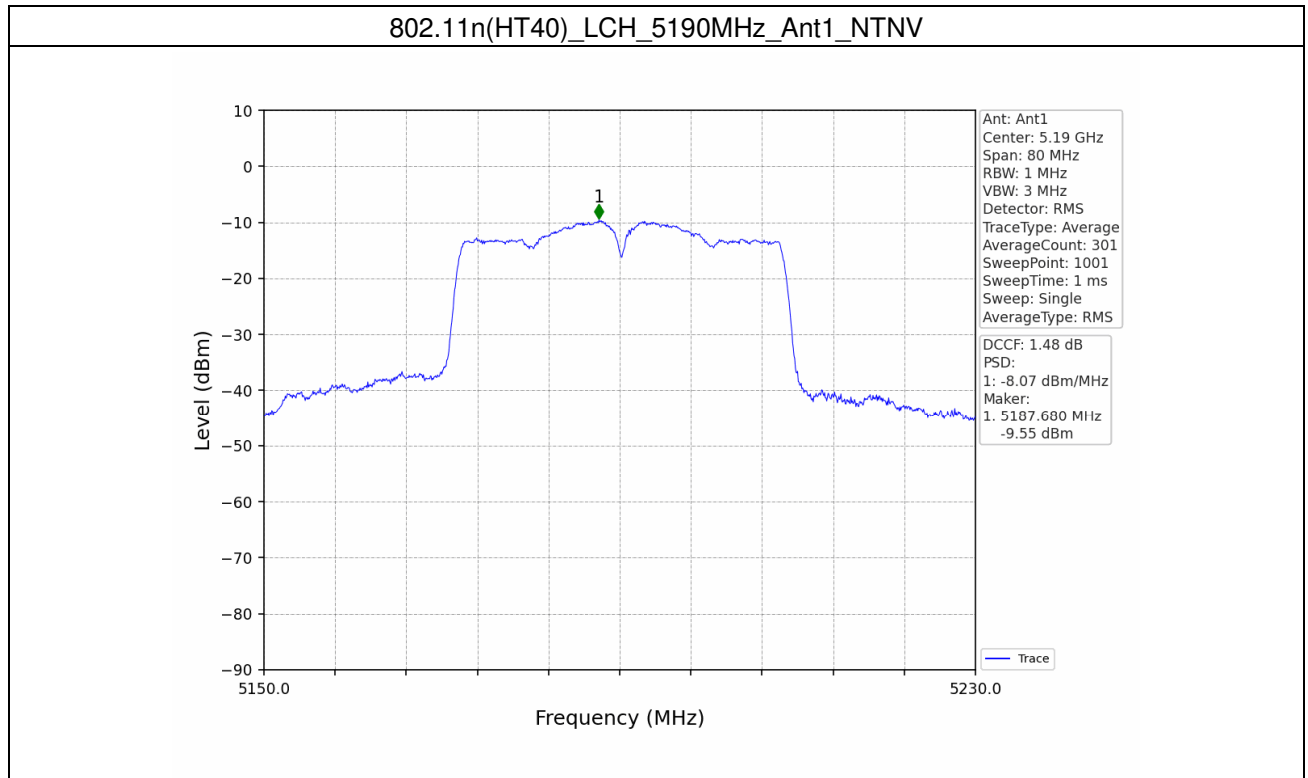


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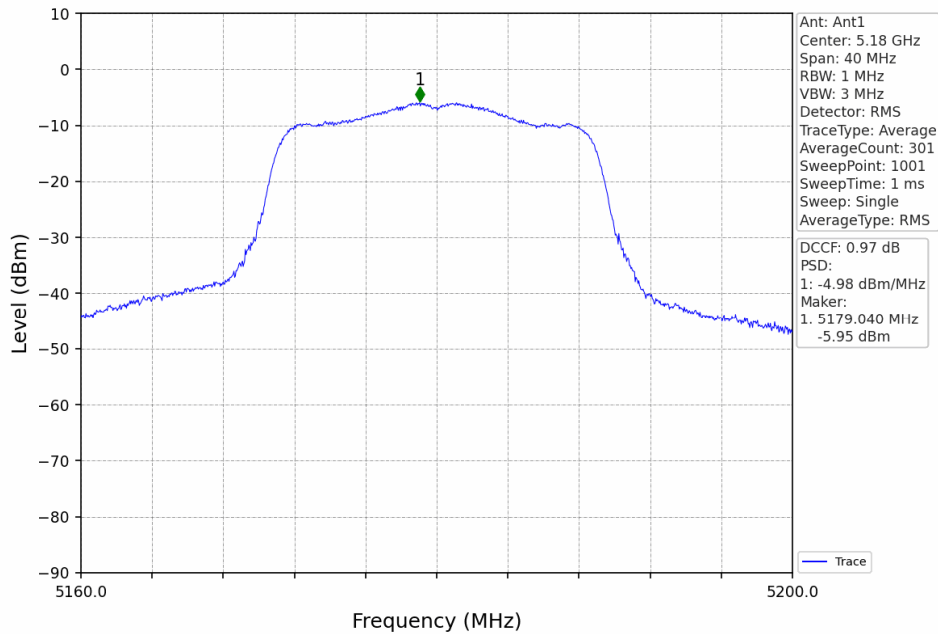
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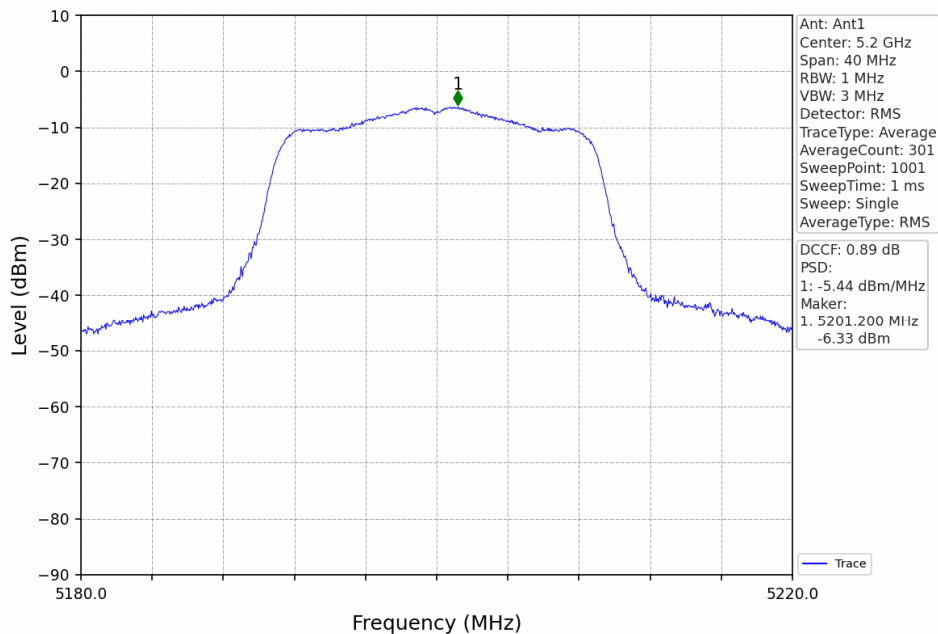


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802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV

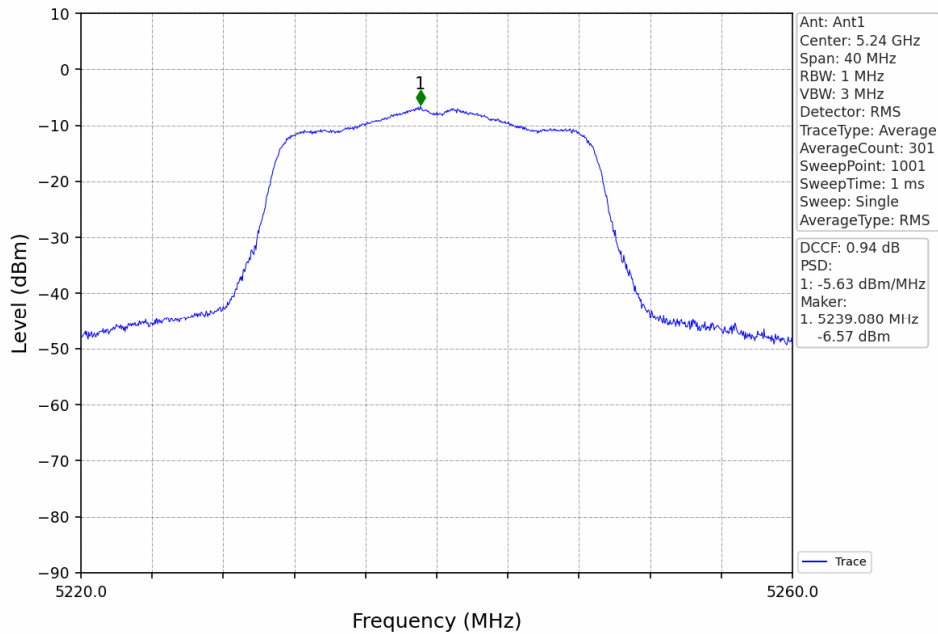


802.11ac(VHT20)_MCH_5200MHz_Ant1_NTNV

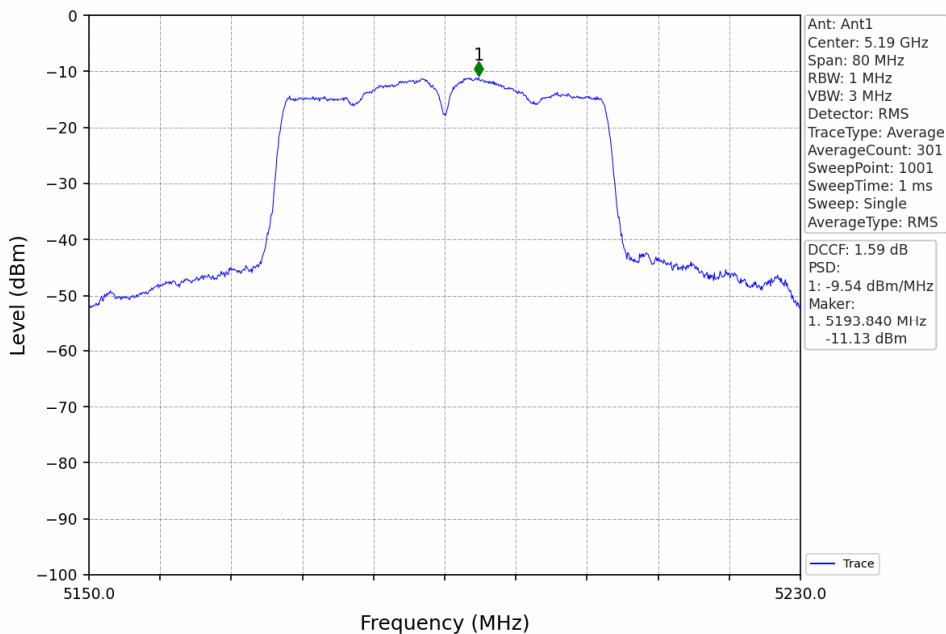


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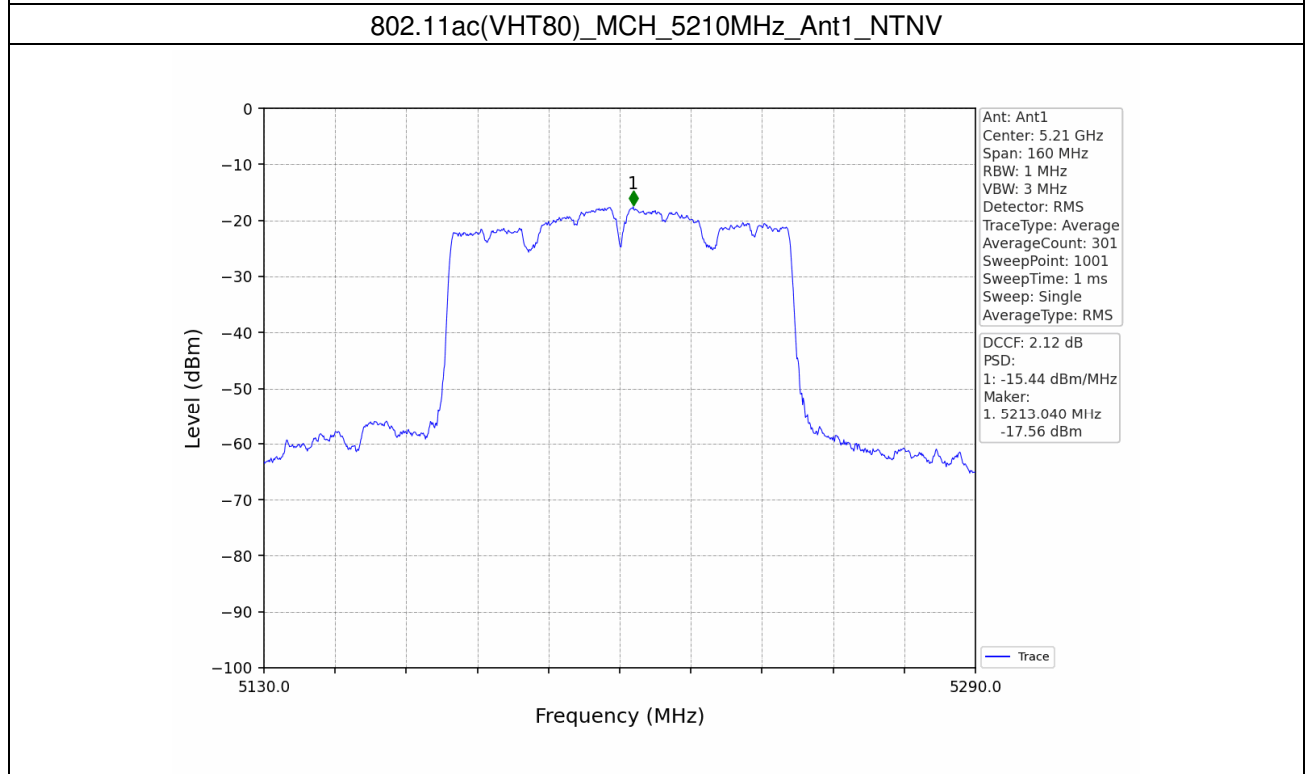
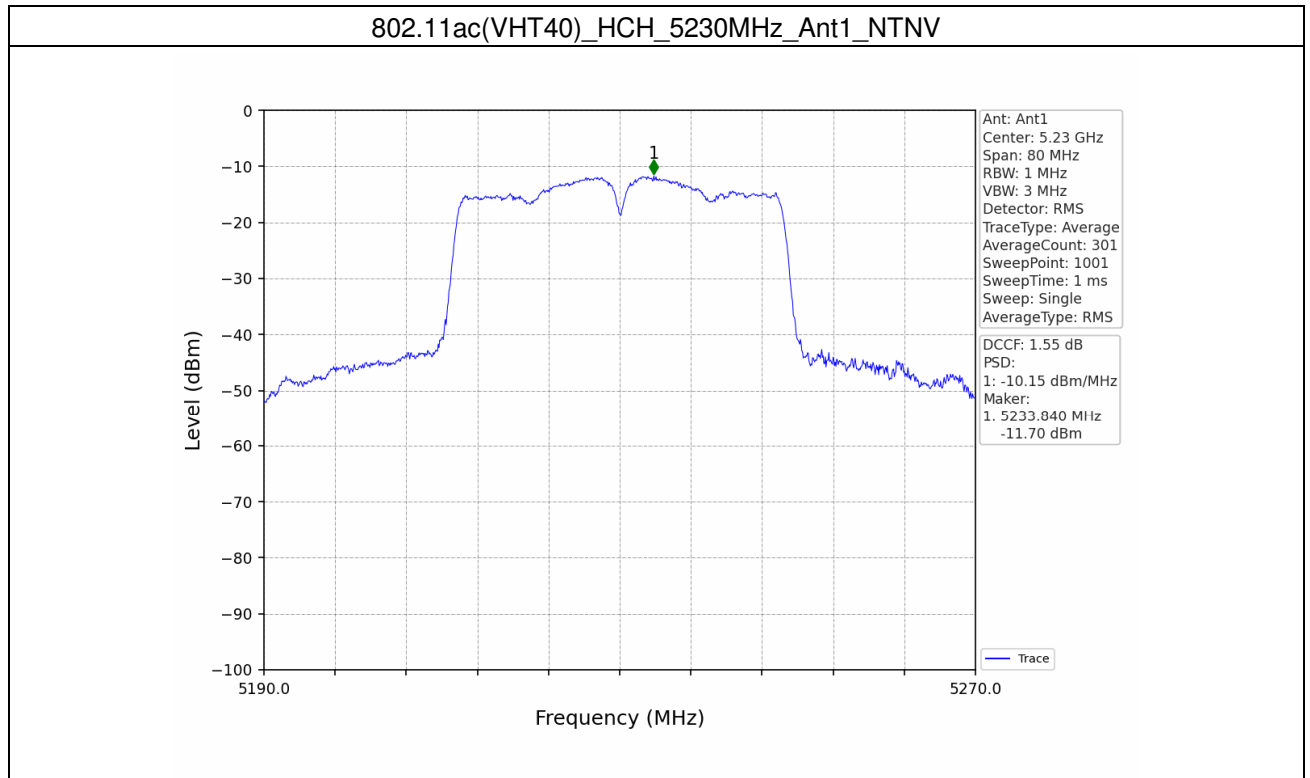
802.11ac(VHT20)_HCH_5240MHz_Ant1_NTNV



802.11ac(VHT40)_LCH_5190MHz_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 (VDC) | Measured Frequency (MHz) | Limit (MHz) | Verdict | |
| 802.11a | SISO | 5180 | 20 | 4.25 | 5180.020 | 5150 to 5250 | Pass | |
| | | | | 5 | 5180.020 | 5150 to 5250 | Pass | |
| | | | | 5.75 | 5180.020 | 5150 to 5250 | Pass | |
| | | | -30 | 5 | 5180.020 | 5150 to 5250 | Pass | |
| | | | | 5 | 5180.020 | 5150 to 5250 | Pass | |
| | | | -20 | 5 | 5180.020 | 5150 to 5250 | Pass | |
| | | | | 5 | 5180.020 | 5150 to 5250 | Pass | |
| | | | -10 | 5 | 5180.020 | 5150 to 5250 | Pass | |
| | | | | 5 | 5180.020 | 5150 to 5250 | Pass | |
| | | | 0 | 5 | 5180.020 | 5150 to 5250 | Pass | |
| | | 10 | 5 | 5180.020 | 5150 to 5250 | Pass | | |
| | | 30 | 5 | 5180.020 | 5150 to 5250 | Pass | | |
| | | 40 | 5 | 5180.020 | 5150 to 5250 | Pass | | |
| | | 50 | 5 | 5180.040 | 5150 to 5250 | Pass | | |
| | | 5200 | 20 | 5200 | 4.25 | 5200.060 | 5150 to 5250 | Pass |
| | | | | | 5 | 5200.040 | 5150 to 5250 | Pass |
| | | | | | 5.75 | 5200.040 | 5150 to 5250 | Pass |
| | | | -30 | 5 | 5200.040 | 5150 to 5250 | Pass | |
| | | | | 5 | 5200.040 | 5150 to 5250 | Pass | |
| | | | -20 | 5 | 5200.040 | 5150 to 5250 | Pass | |
| | | | | 5 | 5200.040 | 5150 to 5250 | Pass | |
| | | | -10 | 5 | 5200.060 | 5150 to 5250 | Pass | |
| | | | | 5 | 5200.040 | 5150 to 5250 | Pass | |
| | | | 0 | 5 | 5200.040 | 5150 to 5250 | Pass | |
| | | 10 | 5 | 5200.040 | 5150 to 5250 | Pass | | |
| | | 30 | 5 | 5200.040 | 5150 to 5250 | Pass | | |
| | | 40 | 5 | 5200.040 | 5150 to 5250 | Pass | | |
| | | 50 | 5 | 5200.040 | 5150 to 5250 | Pass | | |
| | | 5240 | 20 | 5240 | 4.25 | 5240.060 | 5150 to 5250 | Pass |
| | | | | | 5 | 5240.060 | 5150 to 5250 | Pass |
| 5.75 | 5240.040 | | | | 5150 to 5250 | Pass | | |
| -30 | 5 | | 5240.060 | 5150 to 5250 | Pass | | | |
| | 5 | | 5240.060 | 5150 to 5250 | Pass | | | |
| -20 | 5 | | 5240.060 | 5150 to 5250 | Pass | | | |
| | 5 | | 5240.060 | 5150 to 5250 | Pass | | | |
| -10 | 5 | | 5240.040 | 5150 to 5250 | Pass | | | |
| | 5 | | 5240.060 | 5150 to 5250 | Pass | | | |
| 0 | 5 | | 5240.060 | 5150 to 5250 | Pass | | | |
| 10 | 5 | 5240.060 | 5150 to 5250 | Pass | | | | |
| 30 | 5 | 5240.040 | 5150 to 5250 | Pass | | | | |
| 40 | 5 | 5240.040 | 5150 to 5250 | Pass | | | | |



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| | | | | | | | |
|-------------------|------|------|----------|--------------|--------------|--------------|--------------|
| 802.11n (HT20) | SISO | 5180 | 50 | 5 | 5240.040 | 5150 to 5250 | Pass |
| | | | 20 | 4.25 | 5180.060 | 5150 to 5250 | Pass |
| | | | | 5 | 5180.080 | 5150 to 5250 | Pass |
| | | | | 5.75 | 5180.100 | 5150 to 5250 | Pass |
| | | | -30 | 5 | 5180.060 | 5150 to 5250 | Pass |
| | | | -20 | 5 | 5180.060 | 5150 to 5250 | Pass |
| | | | -10 | 5 | 5180.120 | 5150 to 5250 | Pass |
| | | | 0 | 5 | 5180.040 | 5150 to 5250 | Pass |
| | | | 10 | 5 | 5180.020 | 5150 to 5250 | Pass |
| | | | 30 | 5 | 5180.060 | 5150 to 5250 | Pass |
| | | | 40 | 5 | 5180.080 | 5150 to 5250 | Pass |
| | | 50 | 5 | 5180.020 | 5150 to 5250 | Pass | |
| | | 5200 | 20 | 4.25 | 5200.080 | 5150 to 5250 | Pass |
| | | | | 5 | 5200.120 | 5150 to 5250 | Pass |
| | | | | 5.75 | 5200.120 | 5150 to 5250 | Pass |
| | | | -30 | 5 | 5200.080 | 5150 to 5250 | Pass |
| | | | -20 | 5 | 5200.080 | 5150 to 5250 | Pass |
| | | | -10 | 5 | 5200.080 | 5150 to 5250 | Pass |
| | | | 0 | 5 | 5200.140 | 5150 to 5250 | Pass |
| | | | 10 | 5 | 5200.060 | 5150 to 5250 | Pass |
| | | | 30 | 5 | 5200.060 | 5150 to 5250 | Pass |
| | | | 40 | 5 | 5200.100 | 5150 to 5250 | Pass |
| | | | 50 | 5 | 5200.040 | 5150 to 5250 | Pass |
| | | 5240 | 20 | 4.25 | 5240.140 | 5150 to 5250 | Pass |
| | | | | 5 | 5240.060 | 5150 to 5250 | Pass |
| | | | | 5.75 | 5240.100 | 5150 to 5250 | Pass |
| | | | -30 | 5 | 5240.120 | 5150 to 5250 | Pass |
| | | | -20 | 5 | 5240.140 | 5150 to 5250 | Pass |
| | | | -10 | 5 | 5240.120 | 5150 to 5250 | Pass |
| | | | 0 | 5 | 5240.080 | 5150 to 5250 | Pass |
| | | | 10 | 5 | 5240.120 | 5150 to 5250 | Pass |
| | | | 30 | 5 | 5240.080 | 5150 to 5250 | Pass |
| | | | 40 | 5 | 5240.060 | 5150 to 5250 | Pass |
| 50 | 5 | | 5240.180 | 5150 to 5250 | Pass | | |
| 802.11n (HT40) | SISO | 5190 | 4.25 | 5190.160 | 5150 to 5250 | Pass | |
| | | | 20 | 5 | 5190.080 | 5150 to 5250 | Pass |
| | | | | 5.75 | 5190.080 | 5150 to 5250 | Pass |
| | | | | -30 | 5 | 5190.080 | 5150 to 5250 |
| | | | -20 | 5 | 5190.040 | 5150 to 5250 | Pass |
| | | | -10 | 5 | 5190.080 | 5150 to 5250 | Pass |
| | | | 0 | 5 | 5190.080 | 5150 to 5250 | Pass |
| | | | 10 | 5 | 5190.120 | 5150 to 5250 | Pass |



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| | | | | | | | | |
|------|----------|--------------|---------------------|------|----------|--------------|--------------|----------|
| | | 5230 | 30 | 5 | 5190.080 | 5150 to 5250 | Pass | |
| | | | 40 | 5 | 5190.080 | 5150 to 5250 | Pass | |
| | | | 50 | 5 | 5190.080 | 5150 to 5250 | Pass | |
| | | | 20 | 4.25 | 5230.040 | 5150 to 5250 | Pass | |
| | | | | 5 | 5230.040 | 5150 to 5250 | Pass | |
| | | | | 5.75 | 5230.040 | 5150 to 5250 | Pass | |
| | | | -30 | 5 | 5230.120 | 5150 to 5250 | Pass | |
| | | | -20 | 5 | 5230.080 | 5150 to 5250 | Pass | |
| | | | -10 | 5 | 5230.040 | 5150 to 5250 | Pass | |
| | | | 0 | 5 | 5230.080 | 5150 to 5250 | Pass | |
| | | | 10 | 5 | 5230.040 | 5150 to 5250 | Pass | |
| | | | 30 | 5 | 5230.080 | 5150 to 5250 | Pass | |
| | | | 40 | 5 | 5230.080 | 5150 to 5250 | Pass | |
| | | | 50 | 5 | 5230.080 | 5150 to 5250 | Pass | |
| | | | 802.11ac (VHT20) | SISO | 5180 | 20 | 4.25 | 5180.000 |
| 5 | 5180.020 | 5150 to 5250 | | | | | Pass | |
| 5.75 | 5180.000 | 5150 to 5250 | | | | | Pass | |
| -30 | 5 | 5180.000 | | | | 5150 to 5250 | Pass | |
| -20 | 5 | 5180.020 | | | | 5150 to 5250 | Pass | |
| -10 | 5 | 5180.020 | | | | 5150 to 5250 | Pass | |
| 0 | 5 | 5179.980 | | | | 5150 to 5250 | Pass | |
| 10 | 5 | 5180.060 | | | | 5150 to 5250 | Pass | |
| 30 | 5 | 5180.000 | | | | 5150 to 5250 | Pass | |
| 40 | 5 | 5180.020 | | | | 5150 to 5250 | Pass | |
| 50 | 5 | 5180.000 | | | | 5150 to 5250 | Pass | |
| 5200 | 20 | 4.25 | | | | 5200.020 | 5150 to 5250 | Pass |
| | | 5 | | | | 5200.060 | 5150 to 5250 | Pass |
| | | 5.75 | | | | 5200.020 | 5150 to 5250 | Pass |
| | -30 | 5 | | | | 5200.040 | 5150 to 5250 | Pass |
| | -20 | 5 | | | 5199.980 | 5150 to 5250 | Pass | |
| | -10 | 5 | | | 5200.060 | 5150 to 5250 | Pass | |
| | 0 | 5 | | | 5200.000 | 5150 to 5250 | Pass | |
| | 10 | 5 | | | 5199.980 | 5150 to 5250 | Pass | |
| | 30 | 5 | | | 5199.980 | 5150 to 5250 | Pass | |
| | 40 | 5 | | | 5199.960 | 5150 to 5250 | Pass | |
| | 50 | 5 | | | 5200.000 | 5150 to 5250 | Pass | |
| | 5240 | 20 | | | 4.25 | 5240.020 | 5150 to 5250 | Pass |
| | | | | | 5 | 5240.000 | 5150 to 5250 | Pass |
| | | | | | 5.75 | 5240.020 | 5150 to 5250 | Pass |
| | | -30 | | | 5 | 5240.000 | 5150 to 5250 | Pass |
| -20 | | 5 | | | 5240.000 | 5150 to 5250 | Pass | |
| -10 | | 5 | | | 5240.000 | 5150 to 5250 | Pass | |



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| | | | | | | | |
|---------------------|------|----------|--------------|--------------|--------------|--------------|------|
| | | | 0 | 5 | 5240.000 | 5150 to 5250 | Pass |
| | | | 10 | 5 | 5240.020 | 5150 to 5250 | Pass |
| | | | 30 | 5 | 5240.000 | 5150 to 5250 | Pass |
| | | | 40 | 5 | 5240.080 | 5150 to 5250 | Pass |
| | | | 50 | 5 | 5240.000 | 5150 to 5250 | Pass |
| 802.11ac (VHT40) | SISO | 5190 | 20 | 4.25 | 5190.000 | 5150 to 5250 | Pass |
| | | | | 5 | 5189.880 | 5150 to 5250 | Pass |
| | | | | 5.75 | 5189.880 | 5150 to 5250 | Pass |
| | | | -30 | 5 | 5189.920 | 5150 to 5250 | Pass |
| | | | -20 | 5 | 5190.000 | 5150 to 5250 | Pass |
| | | | -10 | 5 | 5189.960 | 5150 to 5250 | Pass |
| | | | 0 | 5 | 5189.880 | 5150 to 5250 | Pass |
| | | | 10 | 5 | 5189.920 | 5150 to 5250 | Pass |
| | | | 30 | 5 | 5190.000 | 5150 to 5250 | Pass |
| | | | 40 | 5 | 5190.040 | 5150 to 5250 | Pass |
| | | 50 | 5 | 5190.040 | 5150 to 5250 | Pass | |
| | | 5230 | 20 | 4.25 | 5230.080 | 5150 to 5250 | Pass |
| | | | | 5 | 5230.040 | 5150 to 5250 | Pass |
| | | | | 5.75 | 5230.080 | 5150 to 5250 | Pass |
| | | | -30 | 5 | 5230.080 | 5150 to 5250 | Pass |
| | | | -20 | 5 | 5230.000 | 5150 to 5250 | Pass |
| | | | -10 | 5 | 5230.040 | 5150 to 5250 | Pass |
| | | | 0 | 5 | 5230.000 | 5150 to 5250 | Pass |
| | | | 10 | 5 | 5230.040 | 5150 to 5250 | Pass |
| | | | 30 | 5 | 5229.960 | 5150 to 5250 | Pass |
| 40 | 5 | | 5230.040 | 5150 to 5250 | Pass | | |
| 50 | 5 | 5230.040 | 5150 to 5250 | Pass | | | |
| 802.11ac (VHT80) | SISO | 5210 | 20 | 4.25 | 5210.075 | 5150 to 5250 | Pass |
| | | | | 5 | 5210.000 | 5150 to 5250 | Pass |
| | | | | 5.75 | 5210.000 | 5150 to 5250 | Pass |
| | | | -30 | 5 | 5210.000 | 5150 to 5250 | Pass |
| | | | -20 | 5 | 5210.150 | 5150 to 5250 | Pass |
| | | | -10 | 5 | 5210.150 | 5150 to 5250 | Pass |
| | | | 0 | 5 | 5210.075 | 5150 to 5250 | Pass |
| | | | 10 | 5 | 5210.000 | 5150 to 5250 | Pass |
| | | | 30 | 5 | 5210.075 | 5150 to 5250 | Pass |
| | | | 40 | 5 | 5210.075 | 5150 to 5250 | Pass |
| 50 | 5 | 5210.075 | 5150 to 5250 | Pass | | | |

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