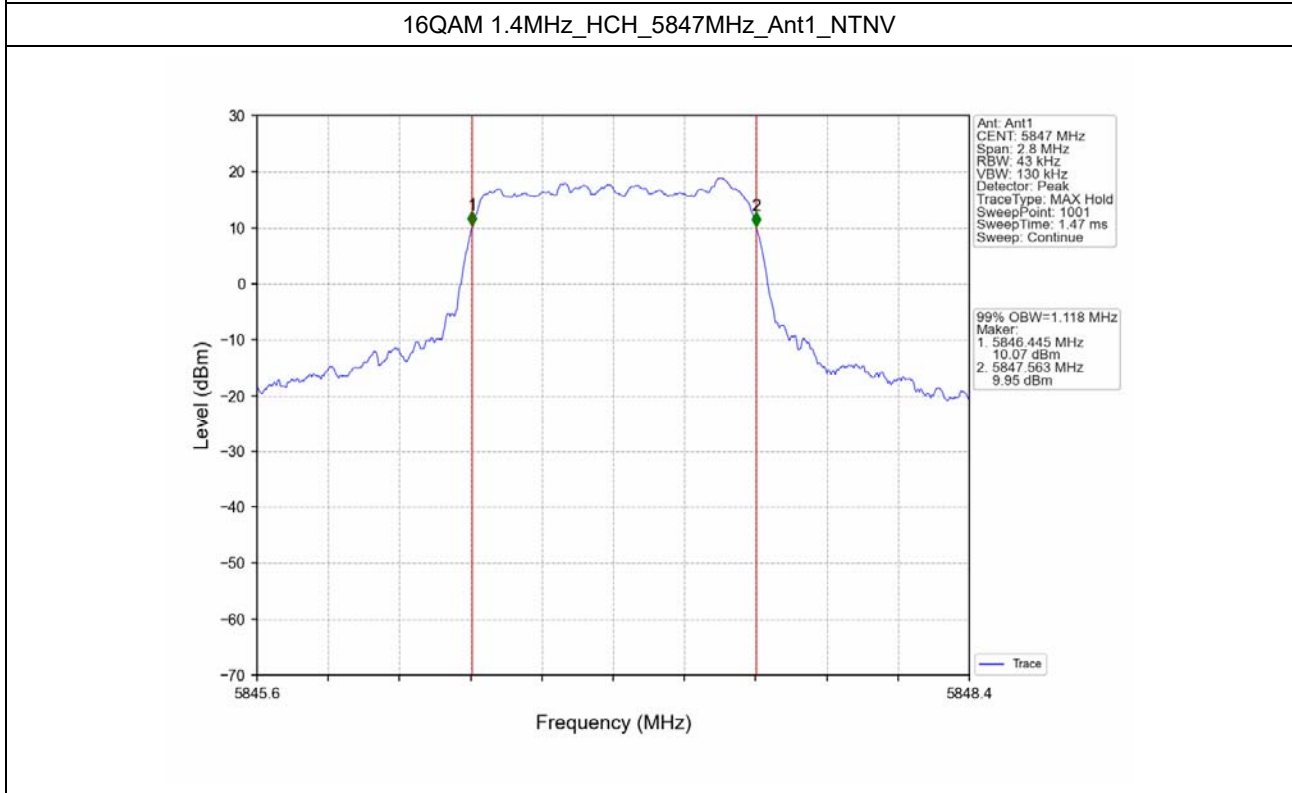
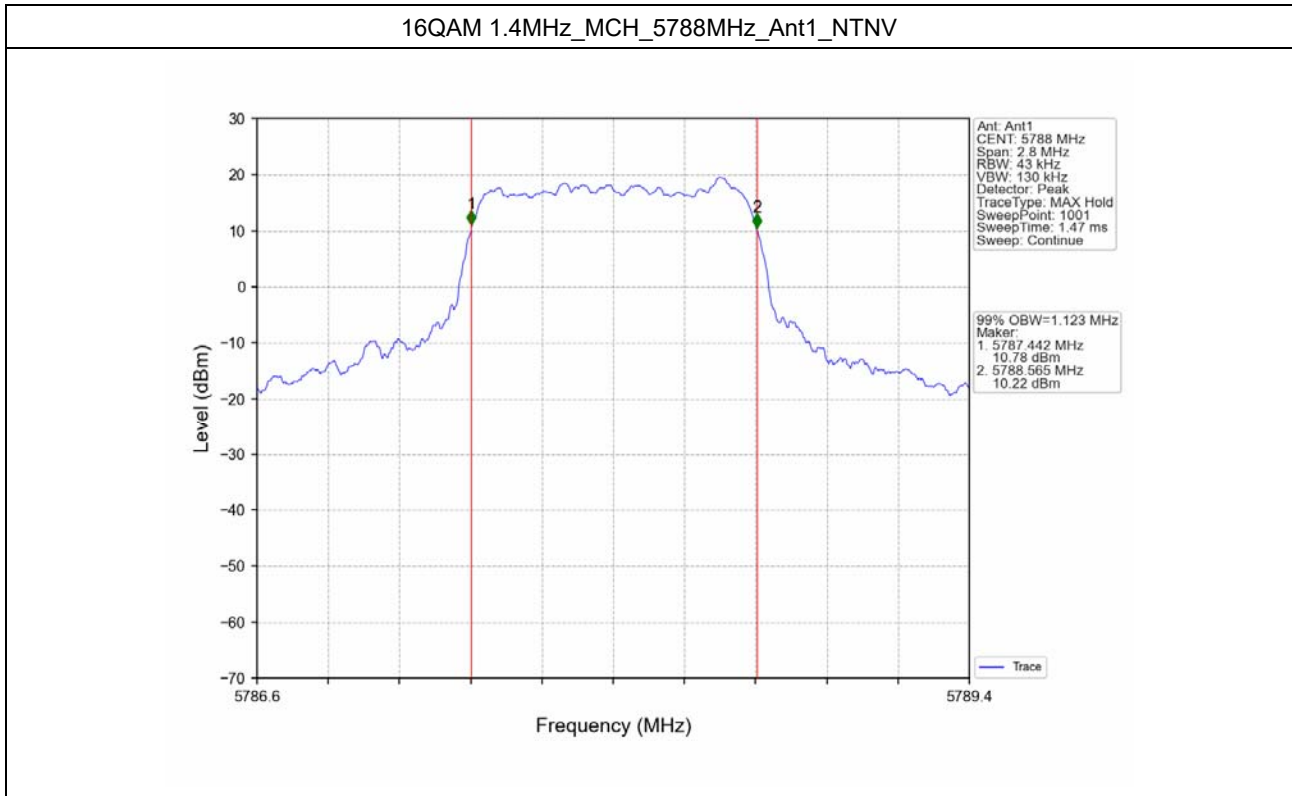


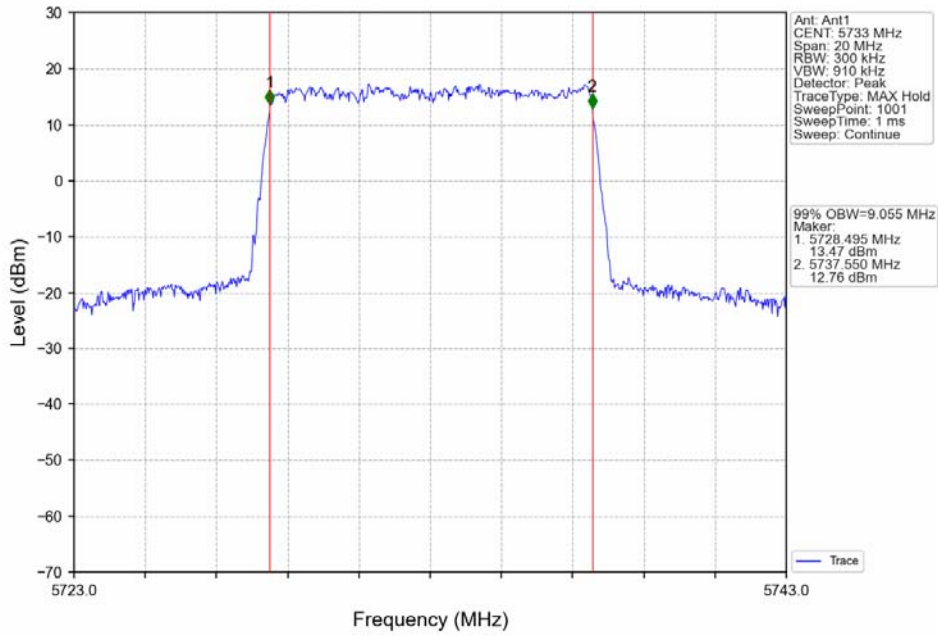
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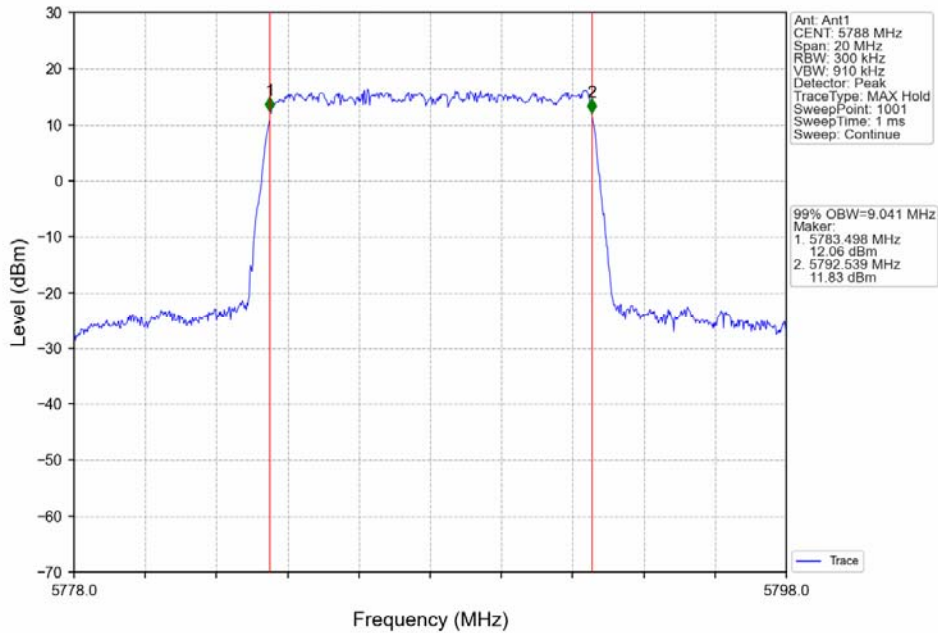
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QPSK 10MHz_LCH_5733MHz_Ant1_NTNV



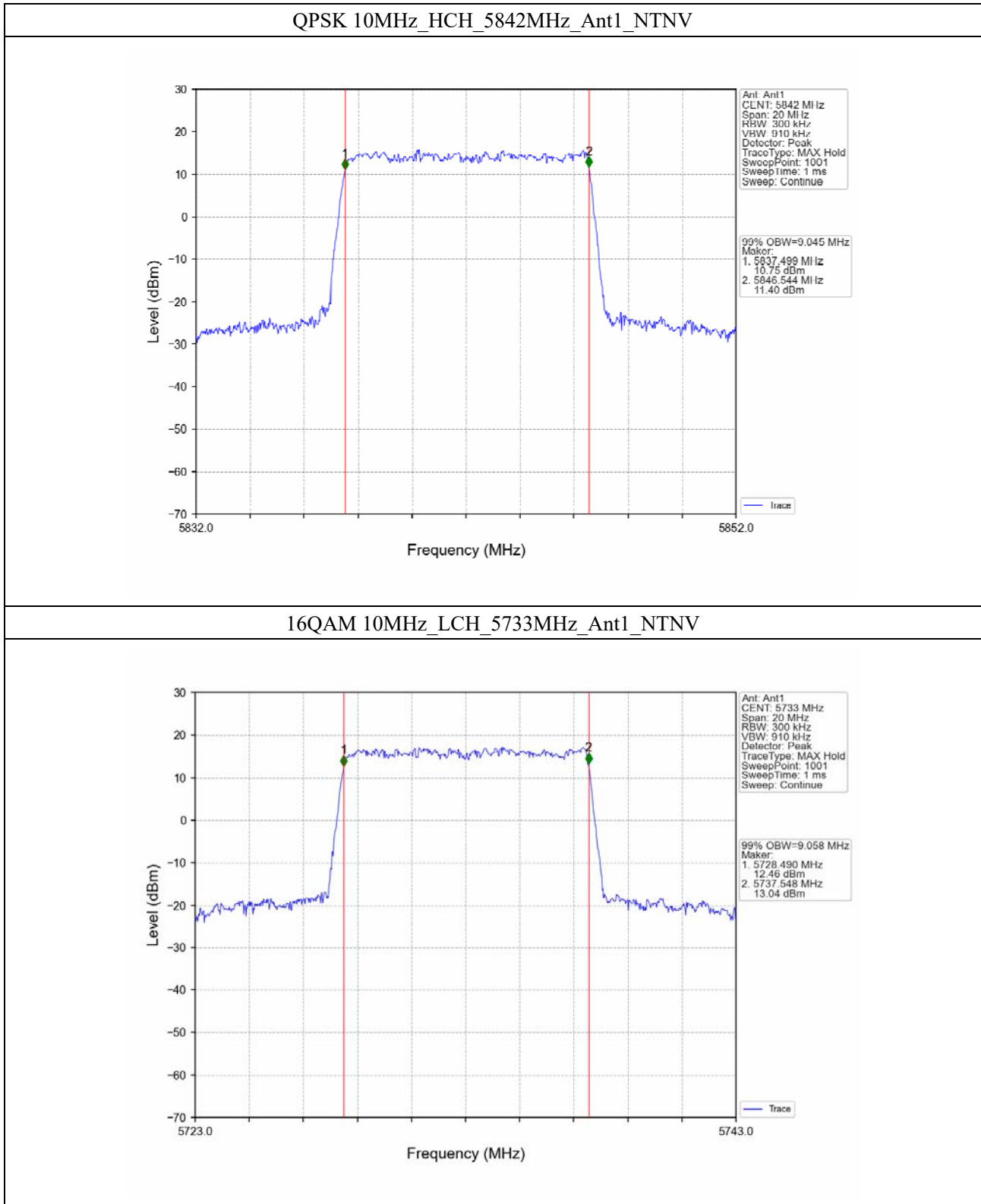
QPSK 10MHz_MCH_5788MHz_Ant1_NTNV



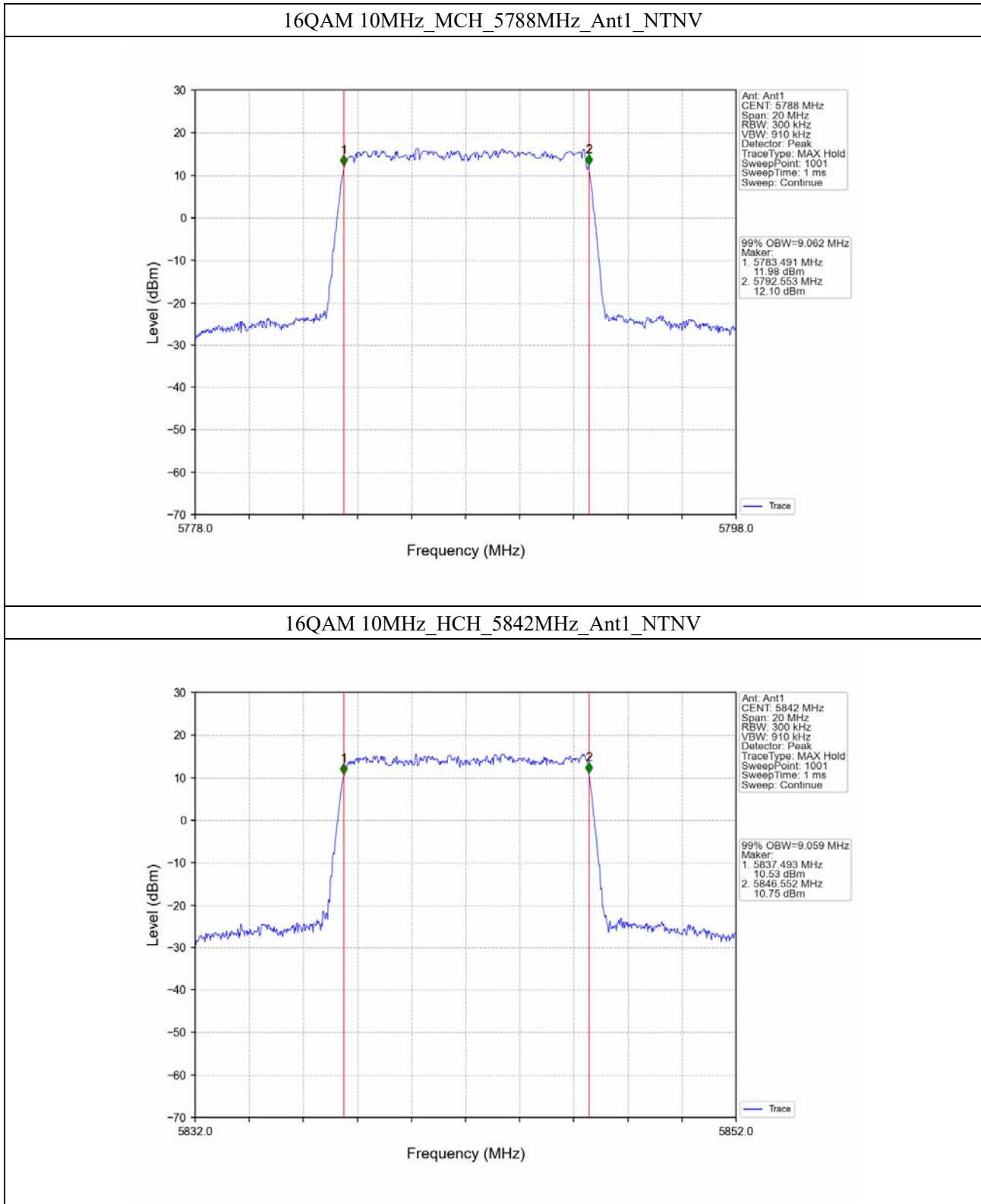
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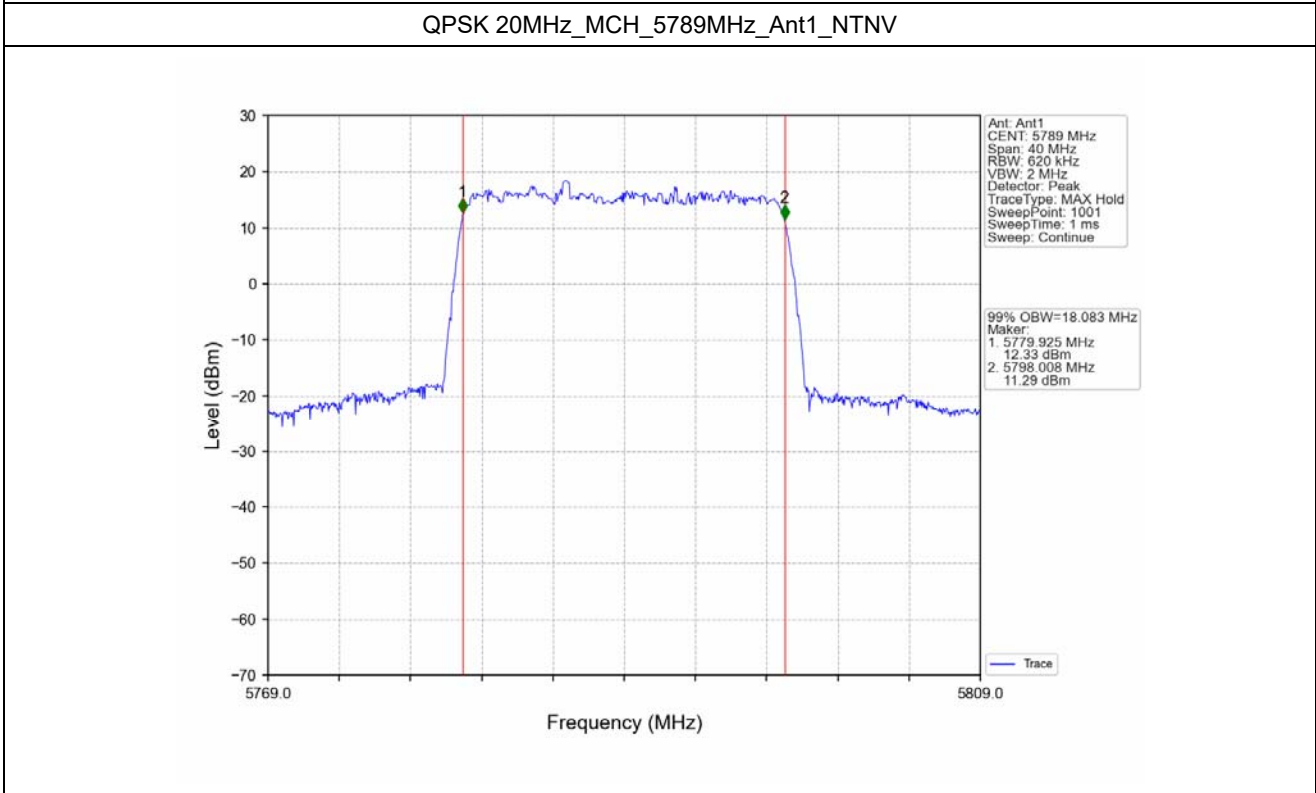
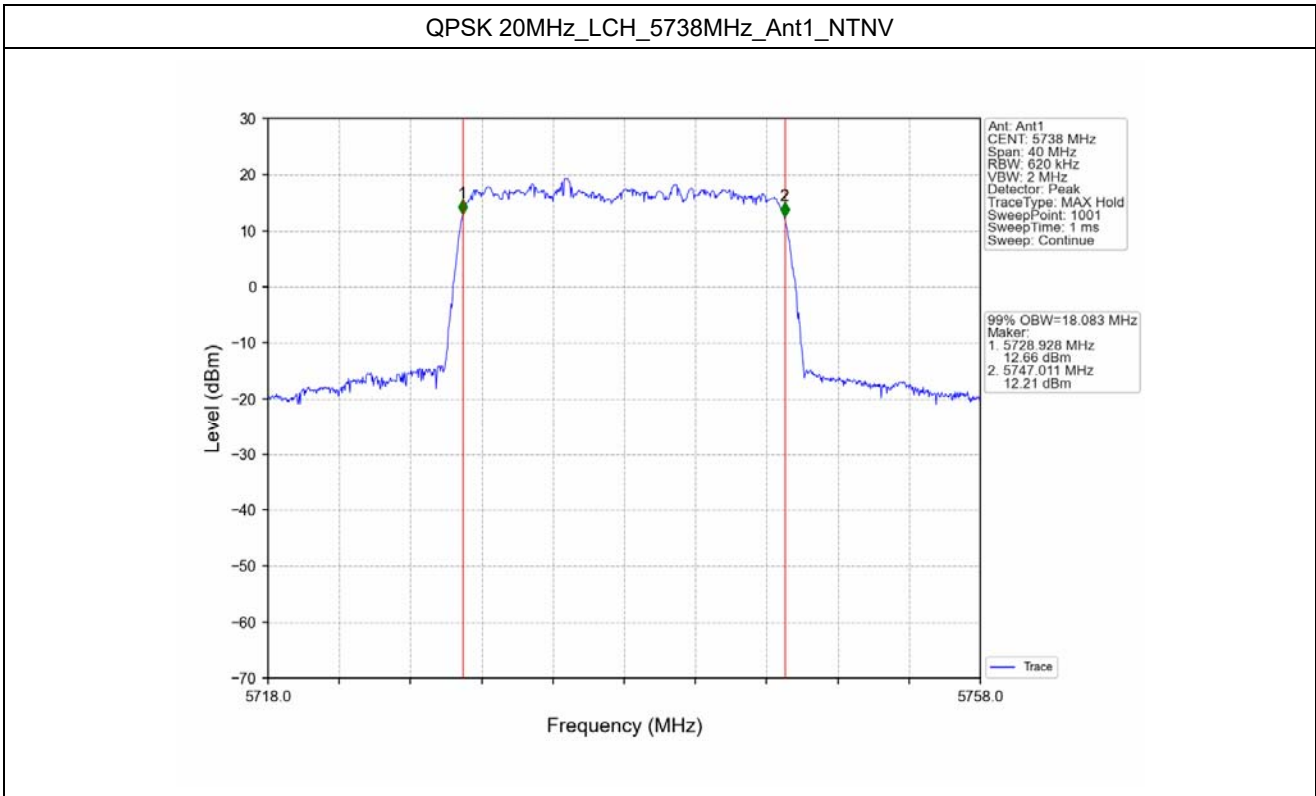
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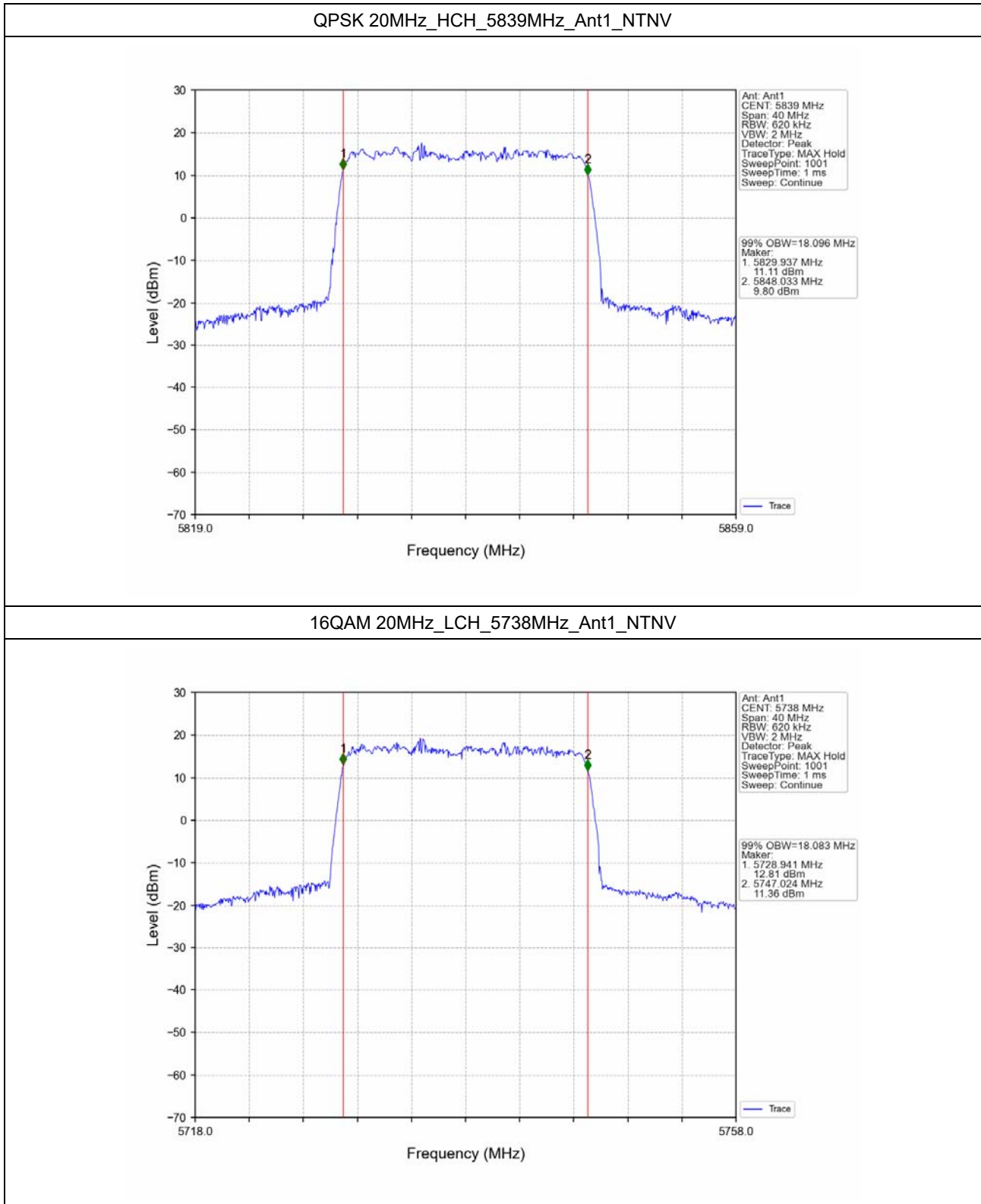
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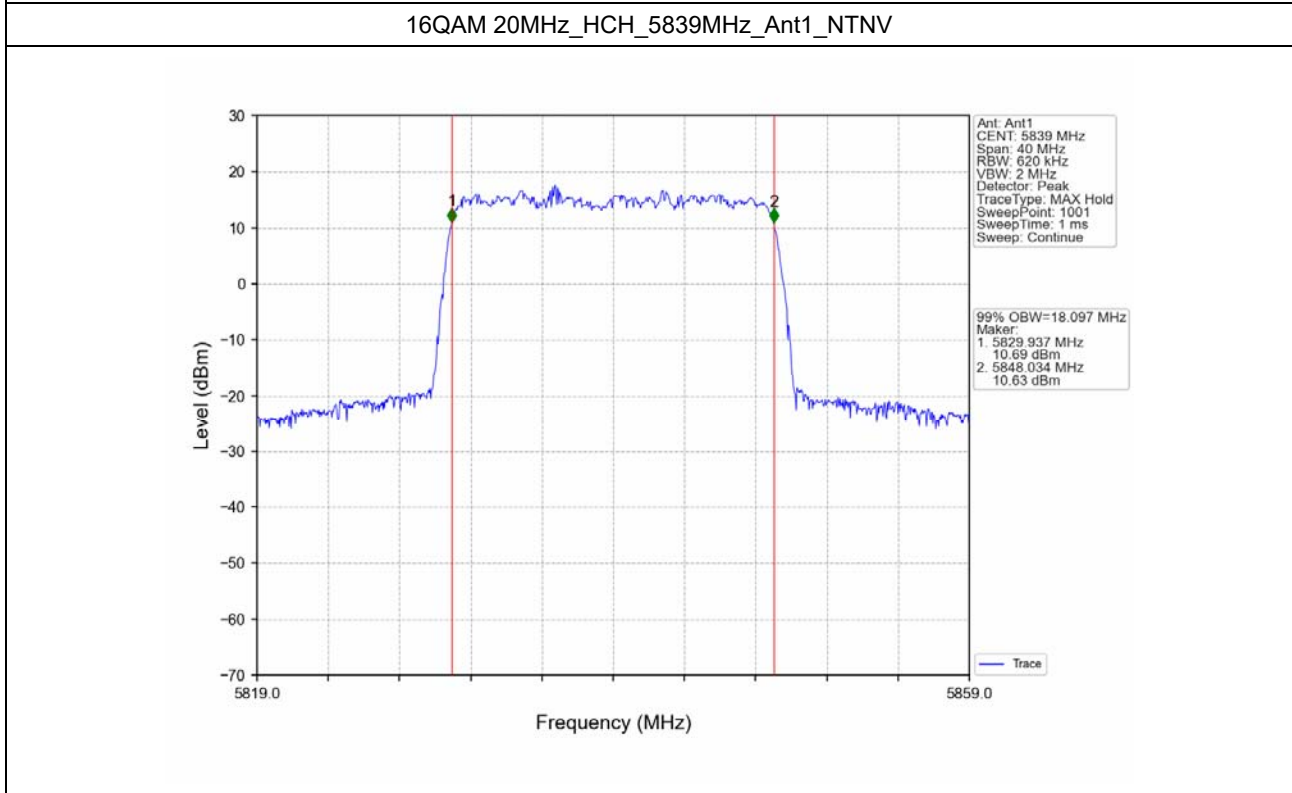
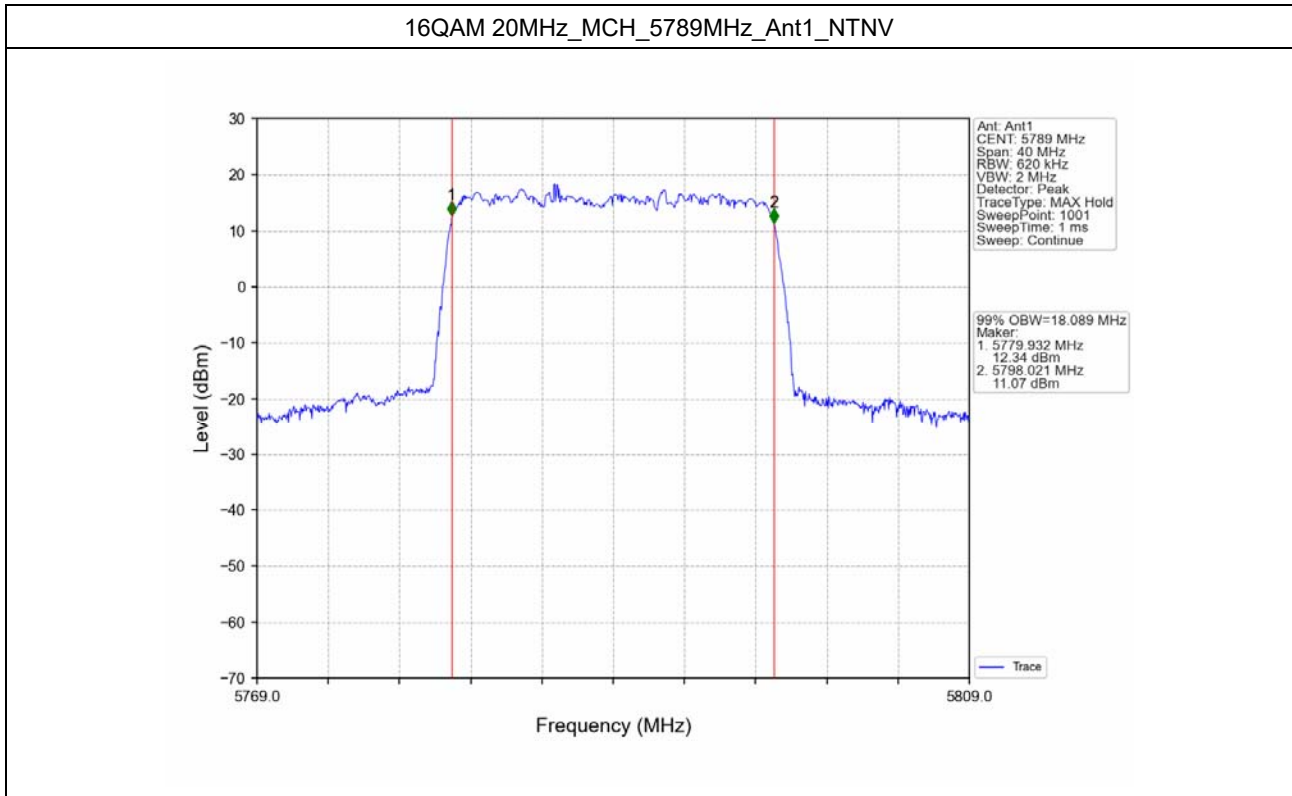
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5G wifi

| Mode | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) | | Verdict |
|------------------|---------|-----------------|-----|---------------------|-------|---------|
| | | | | Result | Limit | |
| 802.11a | SISO | 5745 | 1 | 15.707 | >=0.5 | Pass |
| | | 5785 | 1 | 15.702 | >=0.5 | Pass |
| | | 5825 | 1 | 15.685 | >=0.5 | Pass |
| 802.11n (HT20) | SISO | 5745 | 1 | 15.216 | >=0.5 | Pass |
| | | 5785 | 1 | 15.373 | >=0.5 | Pass |
| | | 5825 | 1 | 15.740 | >=0.5 | Pass |
| 802.11n (HT40) | SISO | 5755 | 1 | 35.259 | >=0.5 | Pass |
| | | 5795 | 1 | 35.240 | >=0.5 | Pass |
| 802.11ac (VHT20) | SISO | 5745 | 1 | 17.630 | >=0.5 | Pass |
| | | 5785 | 1 | 17.626 | >=0.5 | Pass |
| | | 5825 | 1 | 17.633 | >=0.5 | Pass |
| 802.11ac (VHT40) | SISO | 5755 | 1 | 36.382 | >=0.5 | Pass |
| | | 5795 | 1 | 35.724 | >=0.5 | Pass |
| 802.11ac (VHT80) | SISO | 5775 | 1 | 75.220 | >=0.5 | Pass |

| Mode | TX Type | Frequency (MHz) | ANT | 26dB Bandwidth (MHz) | Verdict |
|------------------|---------|-----------------|-----|----------------------|---------|
| | | | | Result | |
| 802.11a | SISO | 5180 | 1 | 19.582 | Pass |
| | | 5200 | 1 | 19.565 | Pass |
| | | 5240 | 1 | 19.626 | Pass |
| 802.11n (HT20) | SISO | 5180 | 1 | 22.617 | Pass |
| | | 5200 | 1 | 23.878 | Pass |
| | | 5240 | 1 | 23.399 | Pass |
| 802.11n (HT40) | SISO | 5190 | 1 | 40.337 | Pass |
| | | 5230 | 1 | 44.589 | Pass |
| 802.11ac (VHT20) | SISO | 5180 | 1 | 20.879 | Pass |
| | | 5200 | 1 | 21.013 | Pass |
| | | 5240 | 1 | 21.053 | Pass |
| 802.11ac (VHT40) | SISO | 5190 | 1 | 58.049 | Pass |
| | | 5230 | 1 | 39.839 | Pass |
| 802.11ac (VHT80) | SISO | 5210 | 1 | 79.776 | Pass |

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5G transfer image

| Mode | TX Type | Frequency (MHz) | ANT | 26dB Bandwidth (MHz) | Verdict |
|--------------|---------|-----------------|-----|----------------------|---------|
| | | | | Result | |
| QPSK 1.4MHz | MIMO | 5154 | 1 | 1.192 | Pass |
| | | | 2 | 1.200 | Pass |
| | | 5200 | 1 | 1.187 | Pass |
| | | | 2 | 1.201 | Pass |
| | | 5246 | 1 | 1.192 | Pass |
| | | | 2 | 1.209 | Pass |
| 16QAM 1.4MHz | MIMO | 5154 | 1 | 1.188 | Pass |
| | | | 2 | 1.203 | Pass |
| | | 5200 | 1 | 1.188 | Pass |
| | | | 2 | 1.208 | Pass |
| | | 5246 | 1 | 1.193 | Pass |
| | | | 2 | 1.206 | Pass |

| Mode | TX Type | Frequency (MHz) | ANT | 26dB Bandwidth (MHz) | Verdict |
|-------------|---------|-----------------|-----|----------------------|---------|
| | | | | Result | |
| QPSK 10MHz | MIMO | 5157 | 1 | 9.624 | Pass |
| | | | 2 | 9.573 | Pass |
| | | 5200 | 1 | 9.665 | Pass |
| | | | 2 | 9.582 | Pass |
| | | 5243 | 1 | 9.597 | Pass |
| | | | 2 | 9.581 | Pass |
| 16QAM 10MHz | MIMO | 5157 | 1 | 9.596 | Pass |
| | | | 2 | 9.561 | Pass |
| | | 5200 | 1 | 9.613 | Pass |
| | | | 2 | 9.578 | Pass |
| | | 5243 | 1 | 9.504 | Pass |
| | | | 2 | 9.588 | Pass |

| Mode | TX Type | Frequency (MHz) | ANT | 26dB Bandwidth (MHz) | Verdict |
|------------|---------|-----------------|-----|----------------------|---------|
| | | | | Result | |
| QPSK 20MHz | MIMO | 5167 | 1 | 23.034 | Pass |
| | | | 2 | 19.068 | Pass |
| | | 5200 | 1 | 23.141 | Pass |
| | | | 2 | 19.157 | Pass |
| | | 5233 | 1 | 19.672 | Pass |

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| | | | | | |
|-------------|------|------|---|--------|------|
| | | | 2 | 19.150 | Pass |
| 16QAM 20MHz | MIMO | 5167 | 1 | 20.222 | Pass |
| | | | 2 | 19.128 | Pass |
| | | 5200 | 1 | 23.076 | Pass |
| | | | 2 | 19.275 | Pass |
| | | 5233 | 1 | 19.075 | Pass |
| | | | 2 | 19.114 | Pass |

| Mode | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) | | Verdict |
|--------------|---------|-----------------|-----|---------------------|-------|---------|
| | | | | Result | Limit | |
| QPSK 1.4MHz | MIMO | 5728 | 1 | 1.133 | >=0.5 | Pass |
| | | 5788 | 1 | 1.133 | >=0.5 | Pass |
| | | 5847 | 1 | 1.134 | >=0.5 | Pass |
| 16QAM 1.4MHz | MIMO | 5728 | 1 | 1.129 | >=0.5 | Pass |
| | | 5788 | 1 | 1.135 | >=0.5 | Pass |
| | | 5847 | 1 | 1.132 | >=0.5 | Pass |

| Mode | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) | | Verdict |
|-------------|---------|-----------------|-----|---------------------|-------|---------|
| | | | | Result | Limit | |
| QPSK 10MHz | MIMO | 5733 | 1 | 9.031 | >=0.5 | Pass |
| | | 5788 | 1 | 9.023 | >=0.5 | Pass |
| | | 5842 | 1 | 9.021 | >=0.5 | Pass |
| 16QAM 10MHz | MIMO | 5733 | 1 | 9.013 | >=0.5 | Pass |
| | | 5788 | 1 | 9.025 | >=0.5 | Pass |
| | | 5842 | 1 | 9.022 | >=0.5 | Pass |

| Mode | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) | | Verdict |
|-------------|---------|-----------------|-----|---------------------|-------|---------|
| | | | | Result | Limit | |
| QPSK 20MHz | MIMO | 5738 | 1 | 18.070 | >=0.5 | Pass |
| | | 5789 | 1 | 18.061 | >=0.5 | Pass |
| | | 5839 | 1 | 18.060 | >=0.5 | Pass |
| 16QAM 20MHz | MIMO | 5738 | 1 | 18.047 | >=0.5 | Pass |
| | | 5789 | 1 | 18.053 | >=0.5 | Pass |
| | | 5839 | 1 | 18.043 | >=0.5 | Pass |

Note: All antennas were tested, and only the worst cases were reported in the test report and external antenna was the worst case.

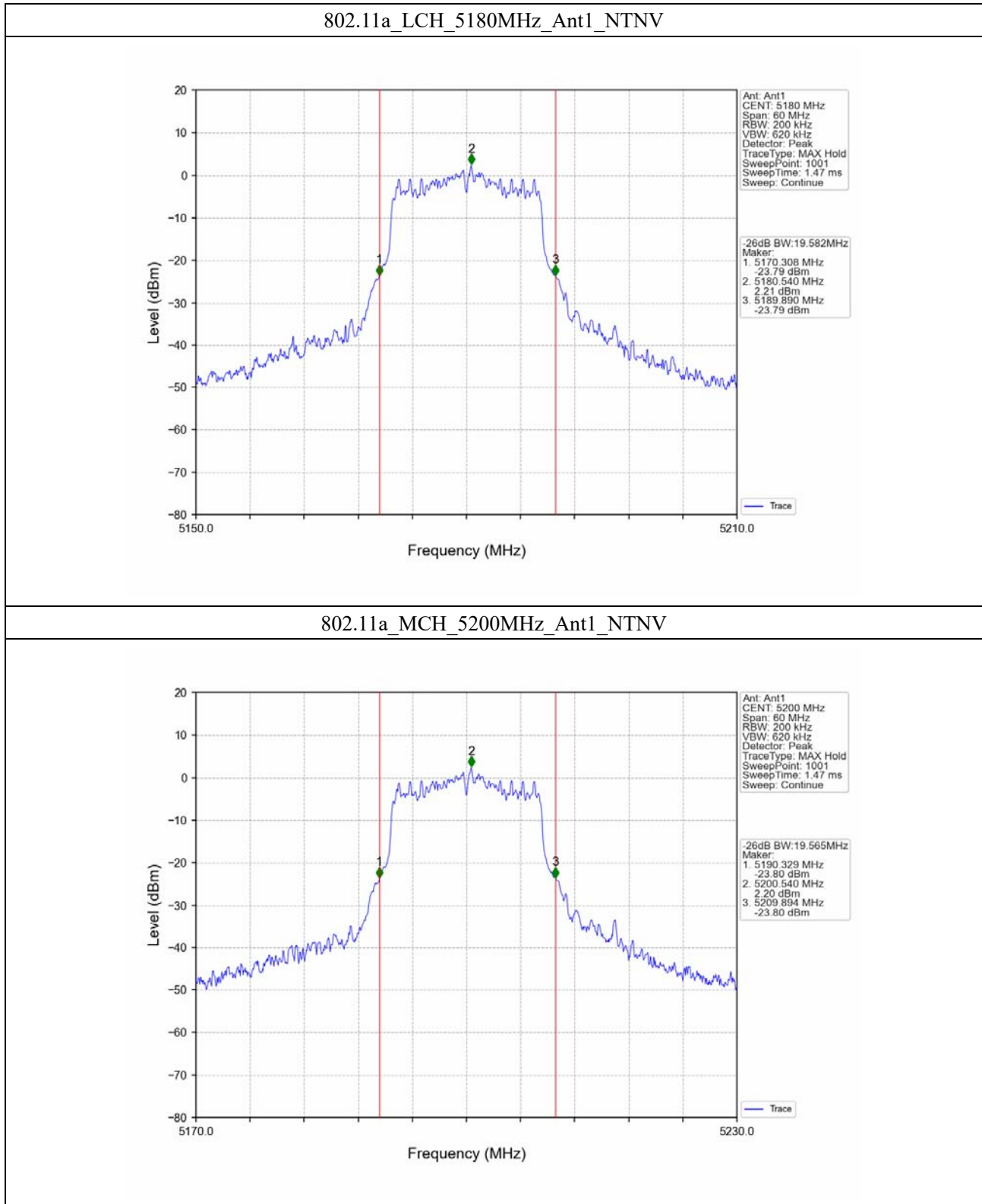
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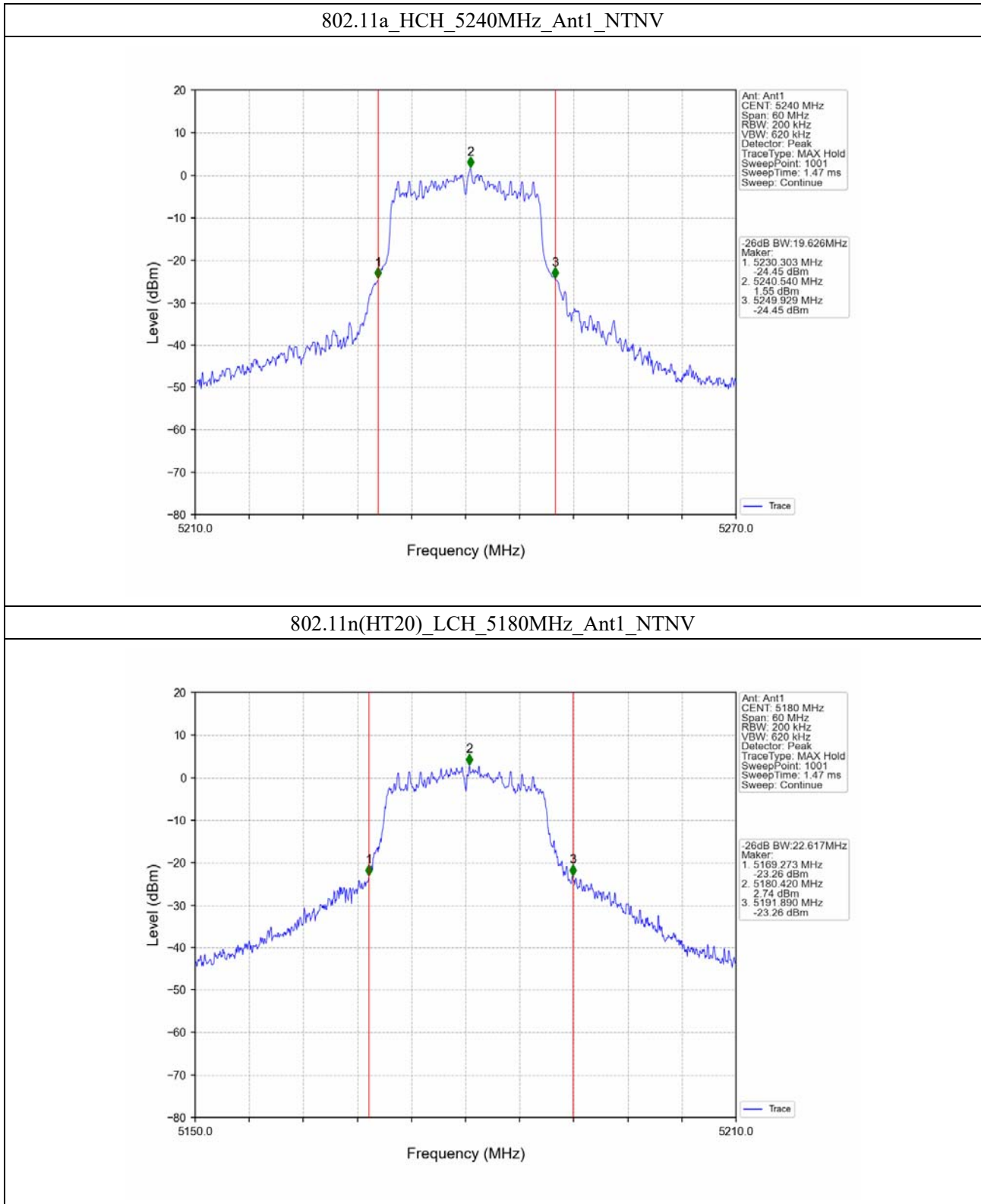
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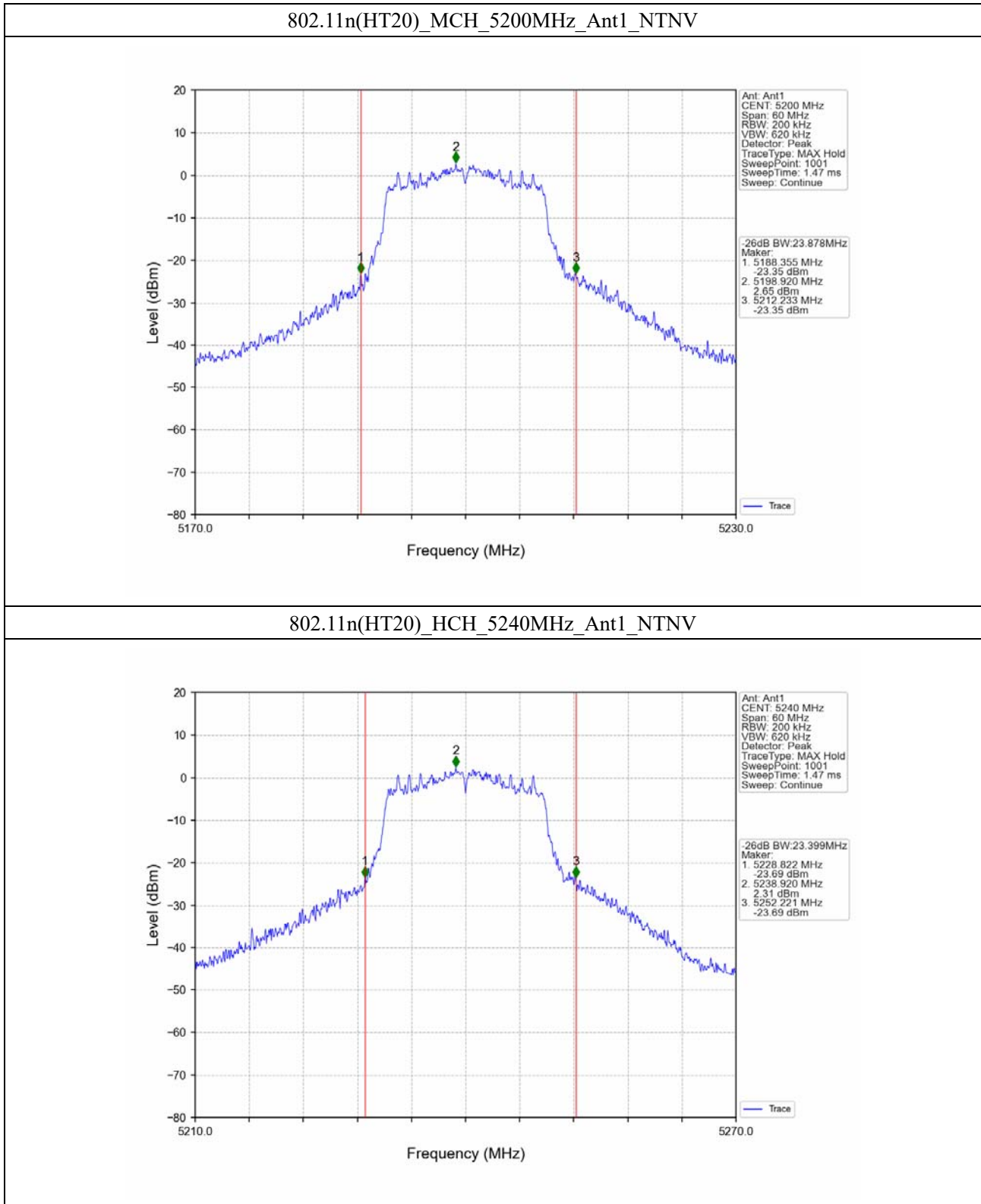
5G wifi



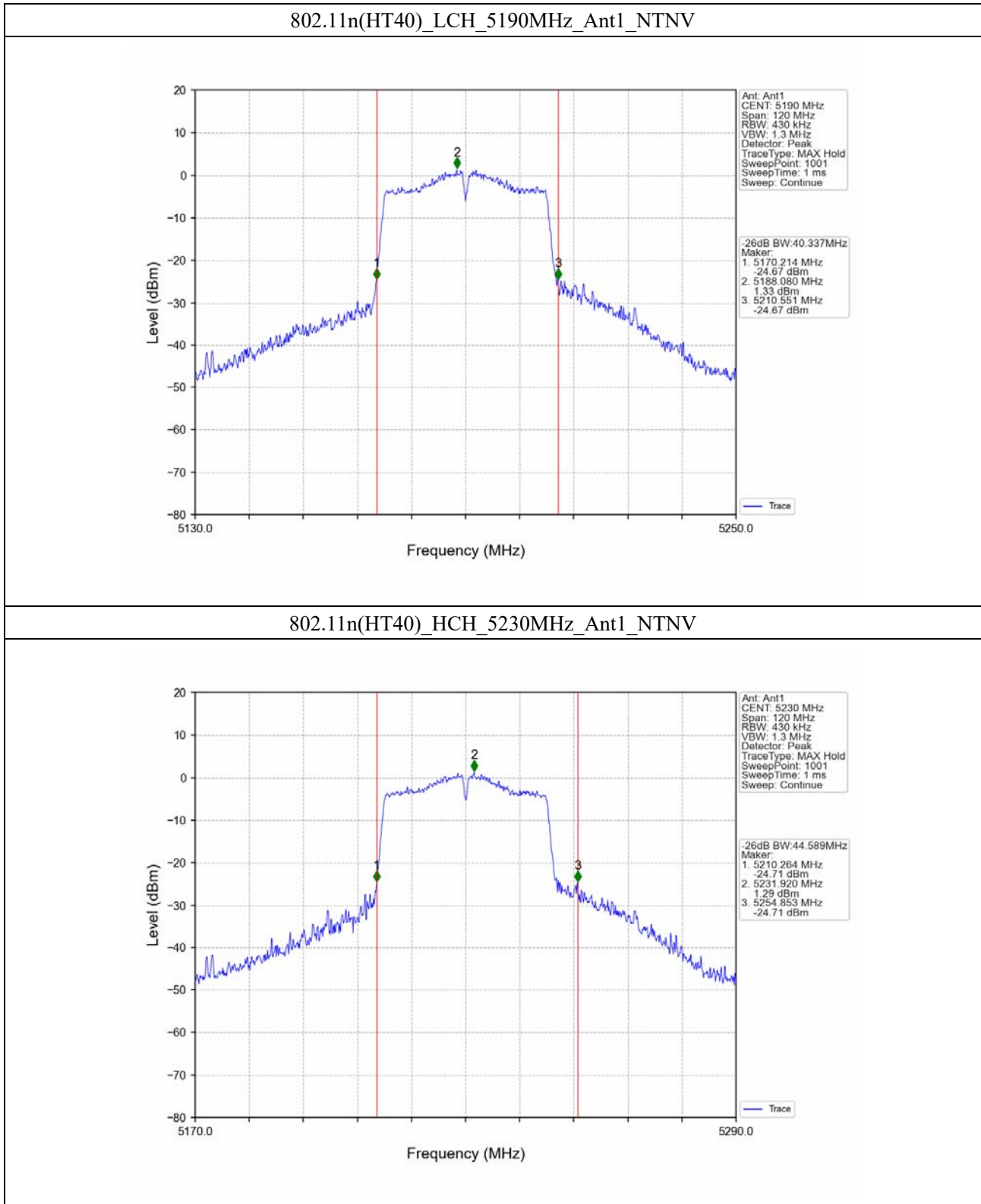
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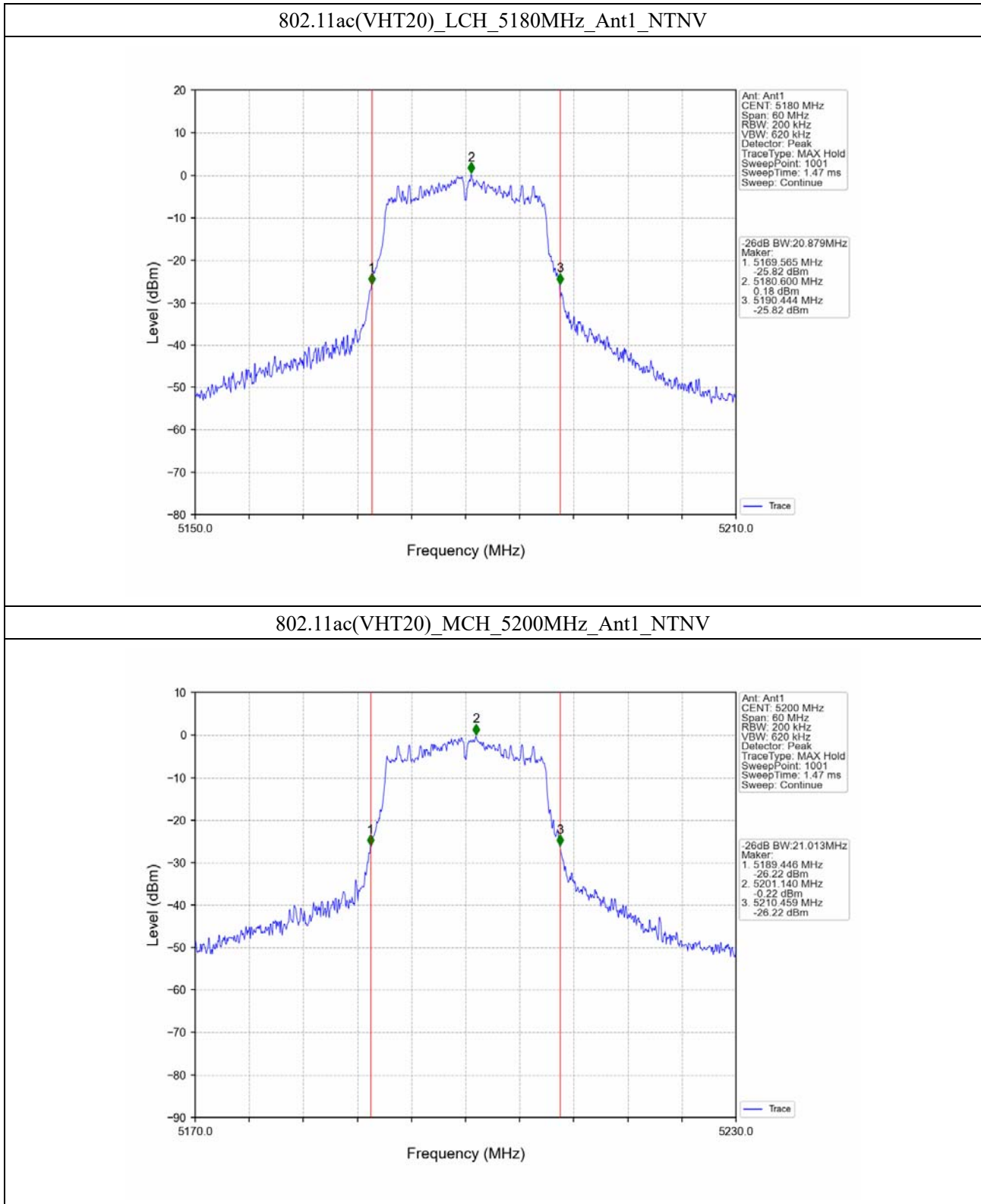
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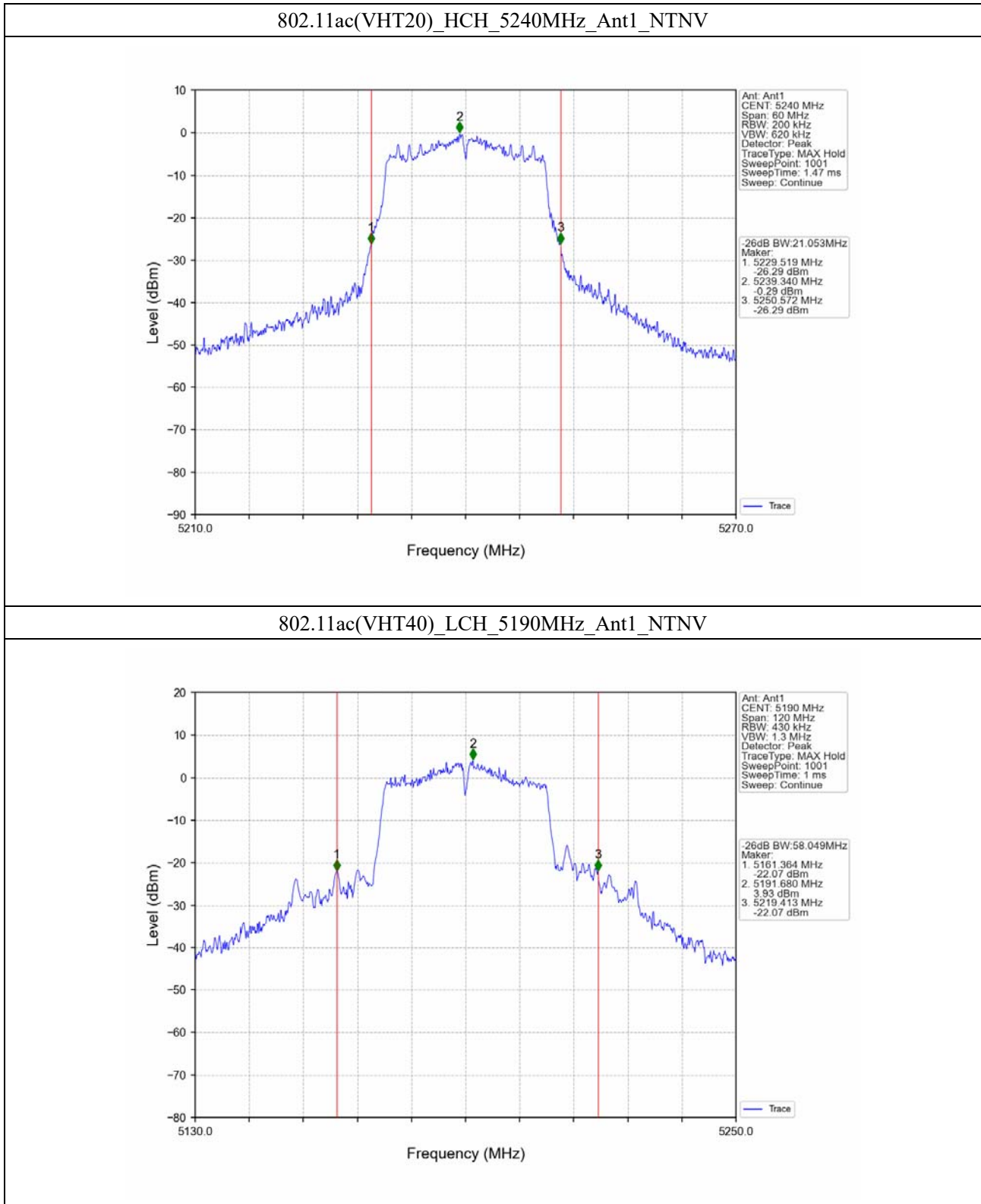
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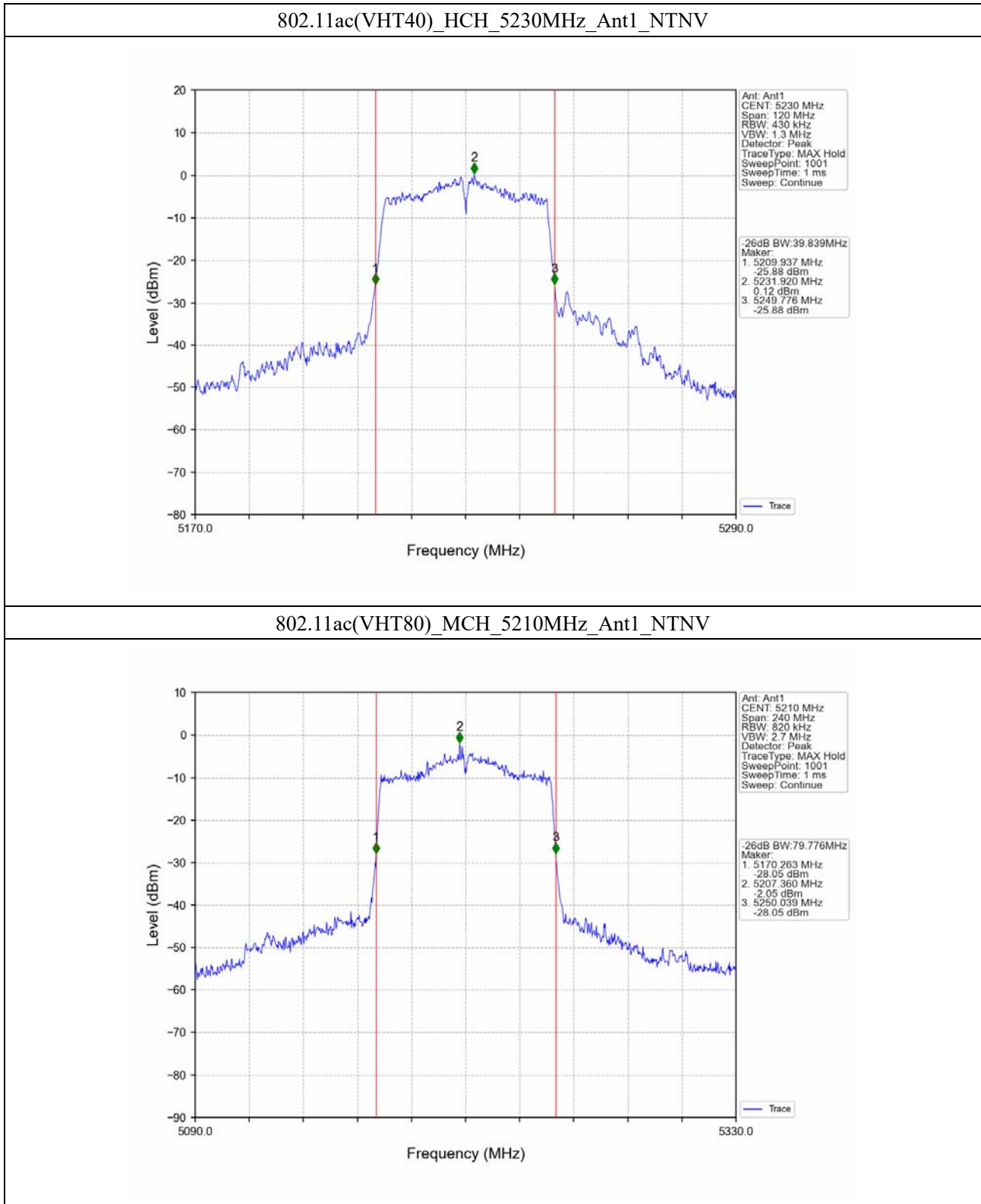
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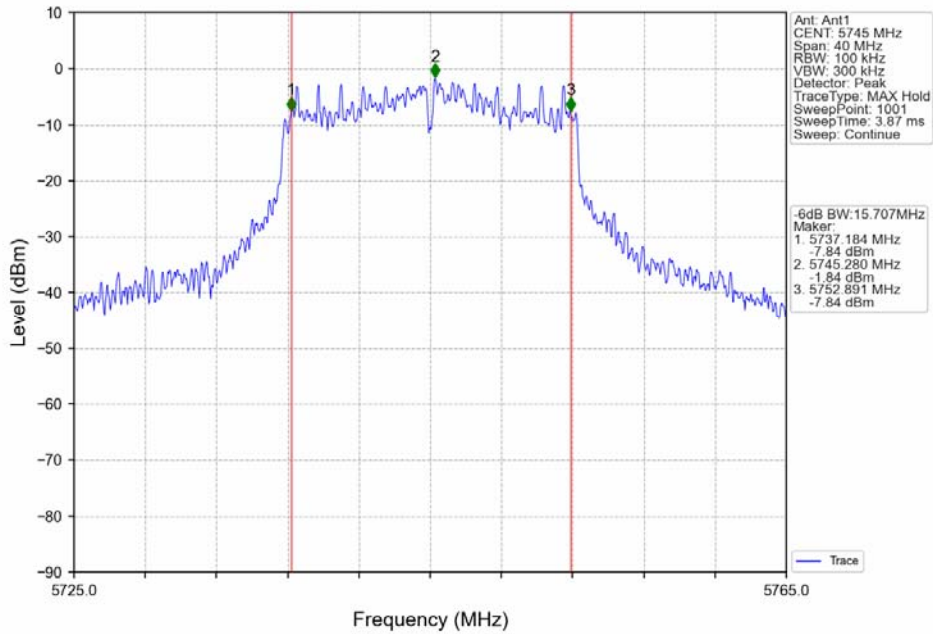
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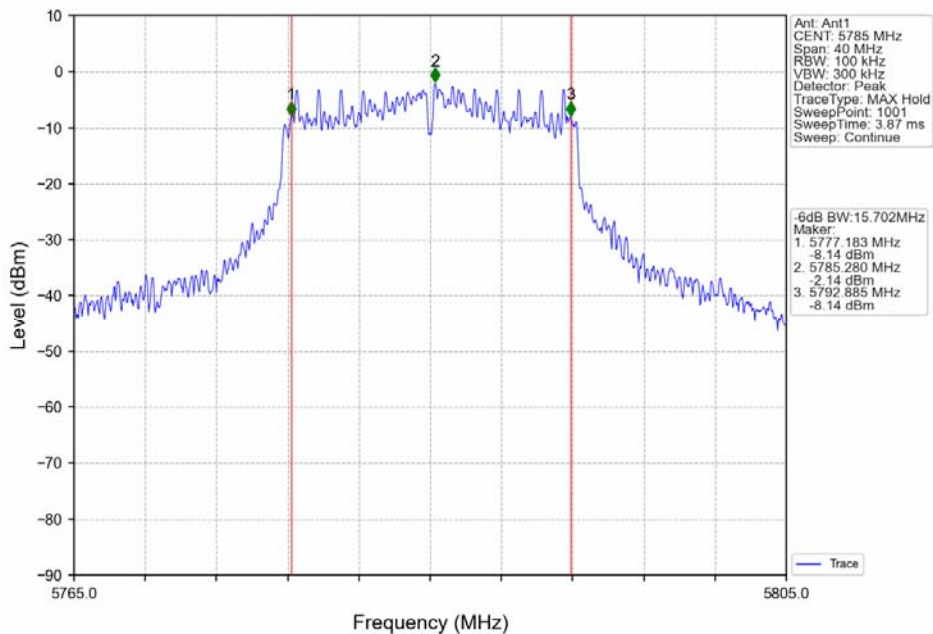
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802.11a_LCH_5745MHz_Ant1_NTNV



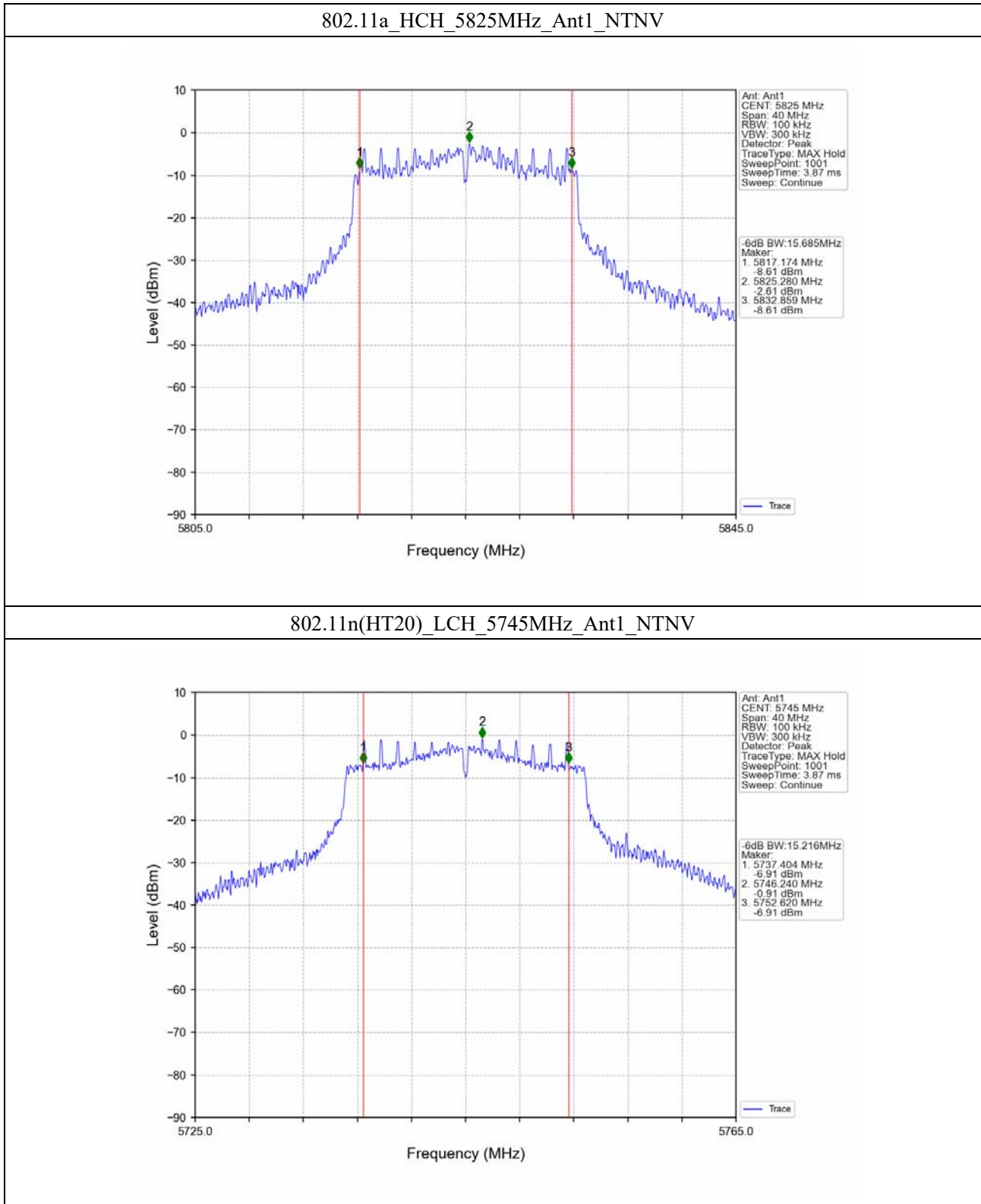
802.11a_MCH_5785MHz_Ant1_NTNV



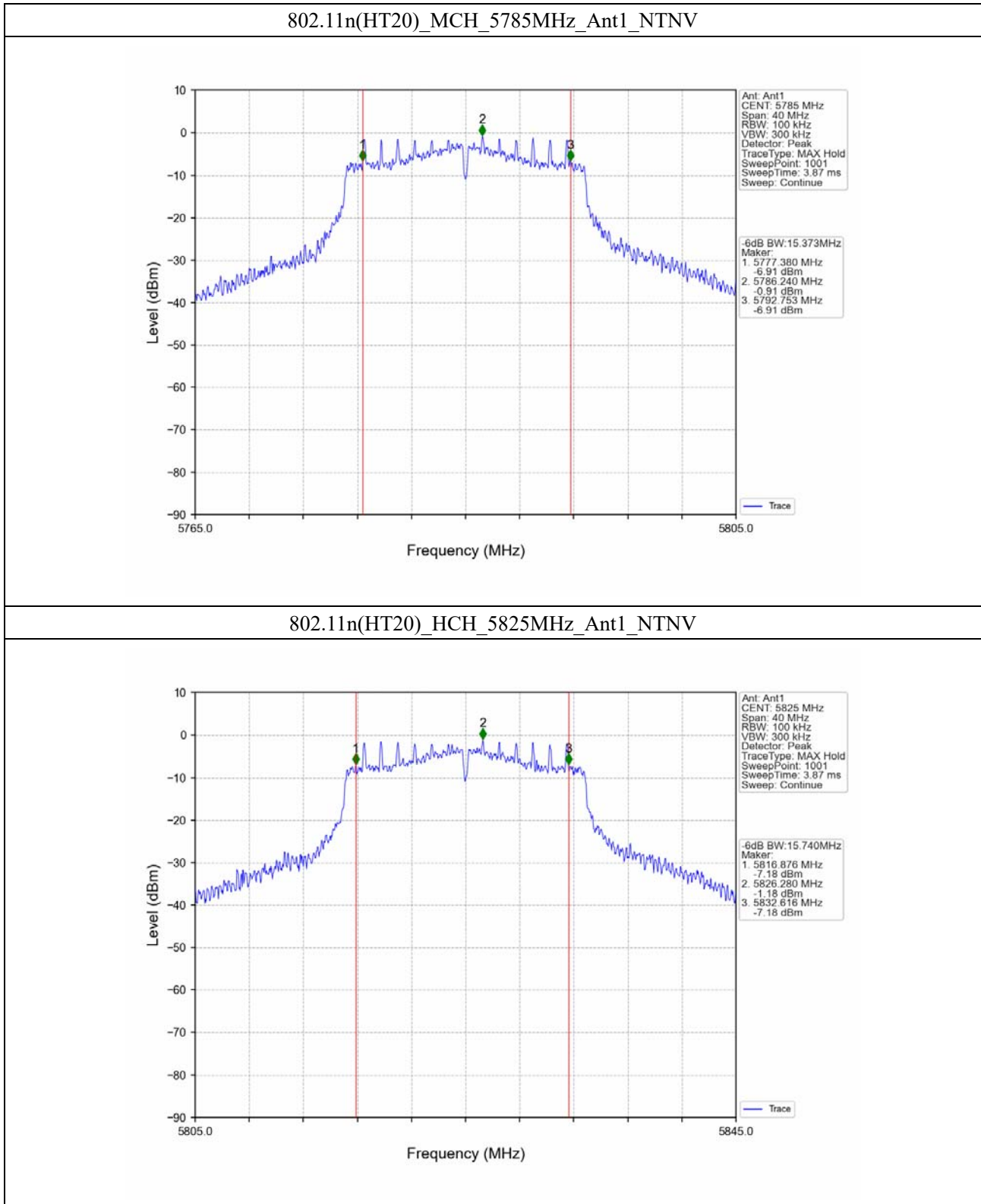
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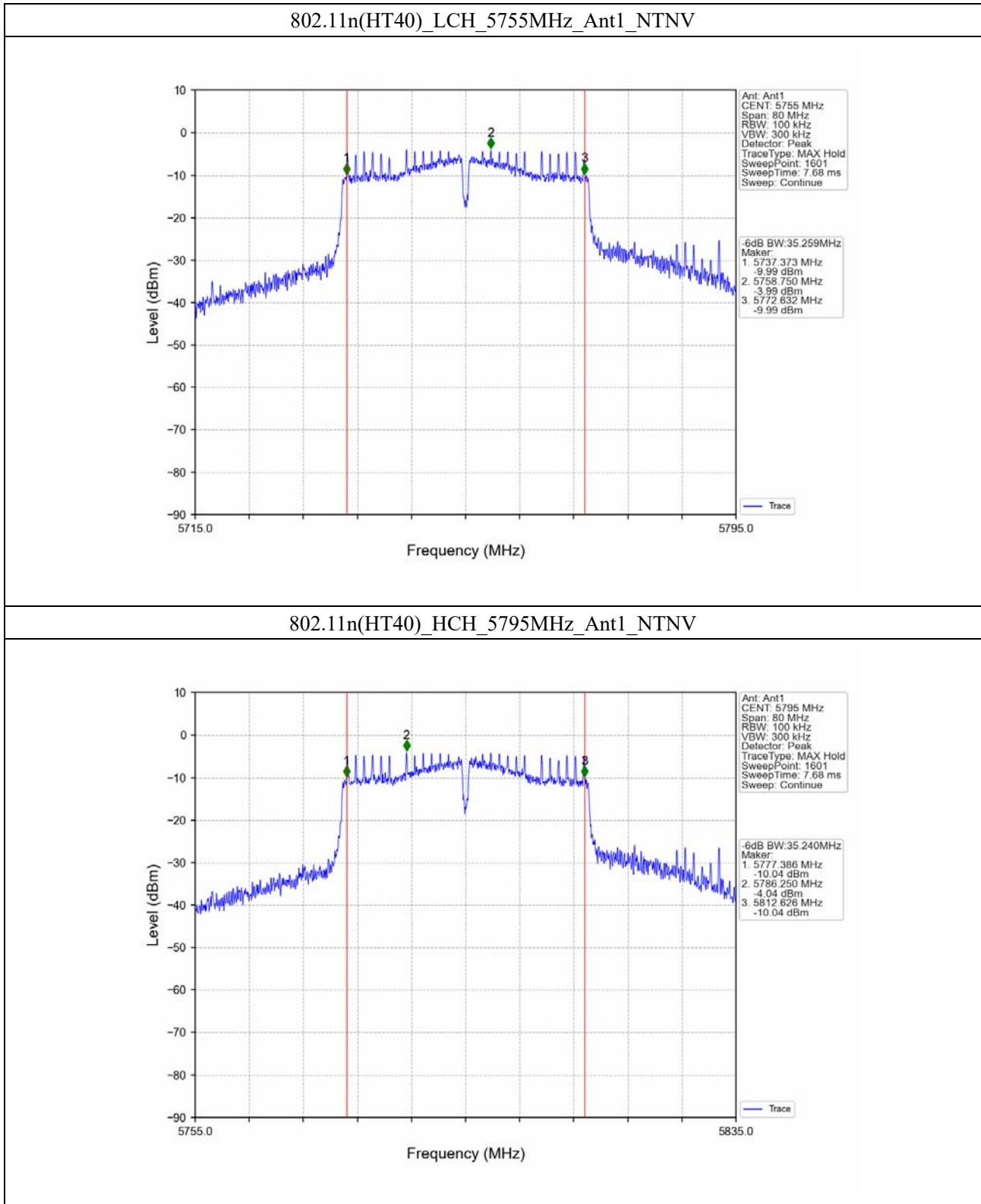
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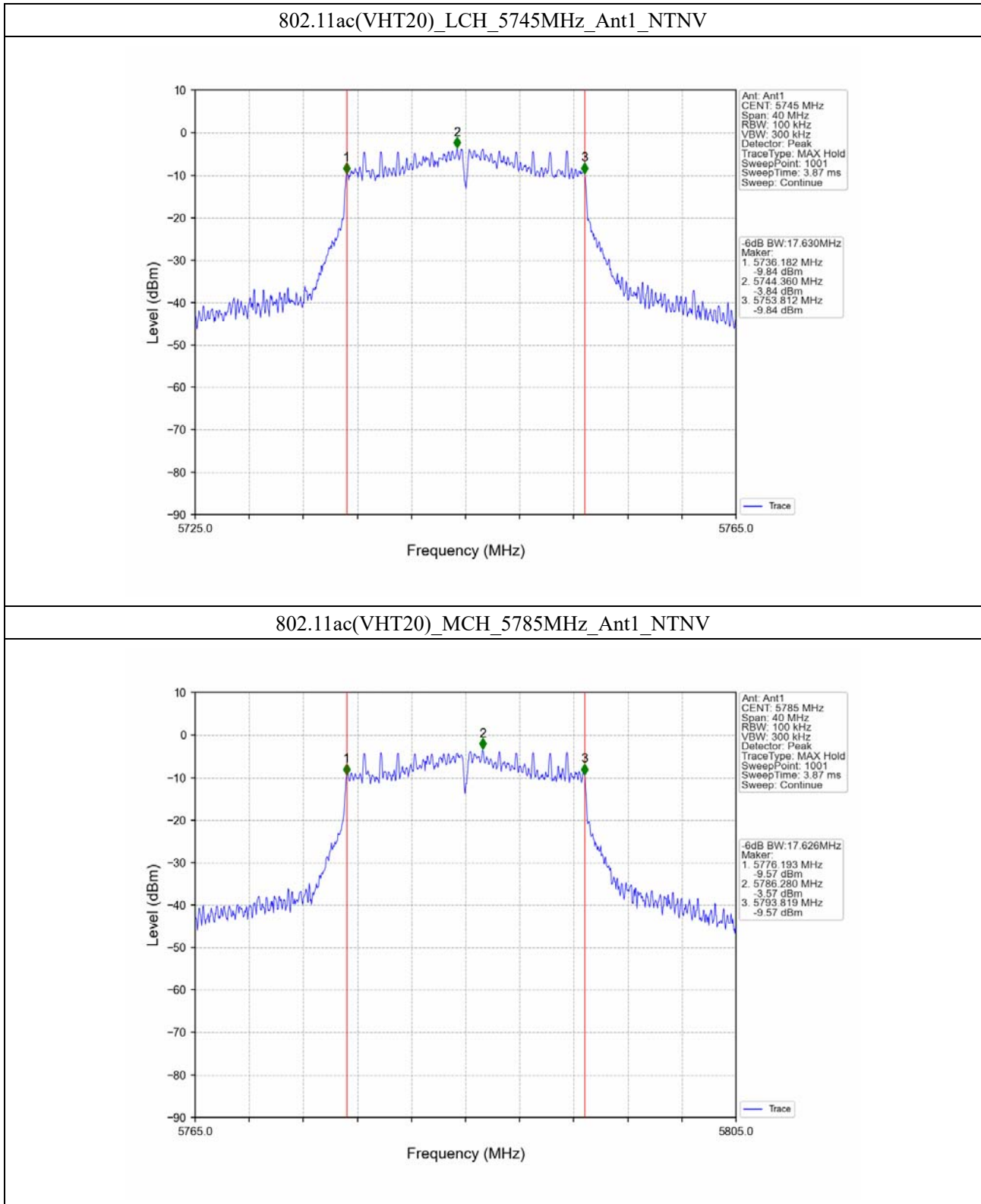
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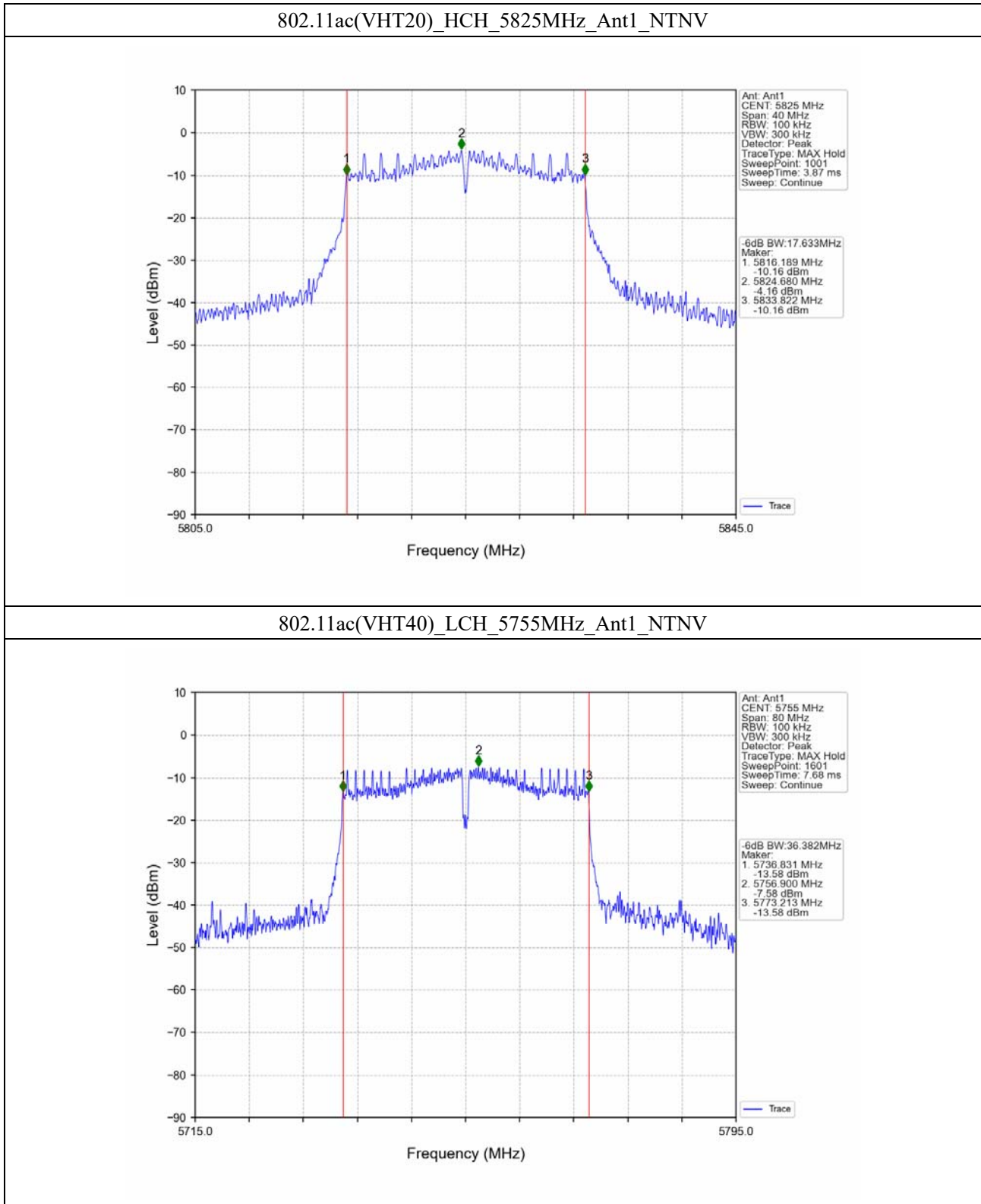
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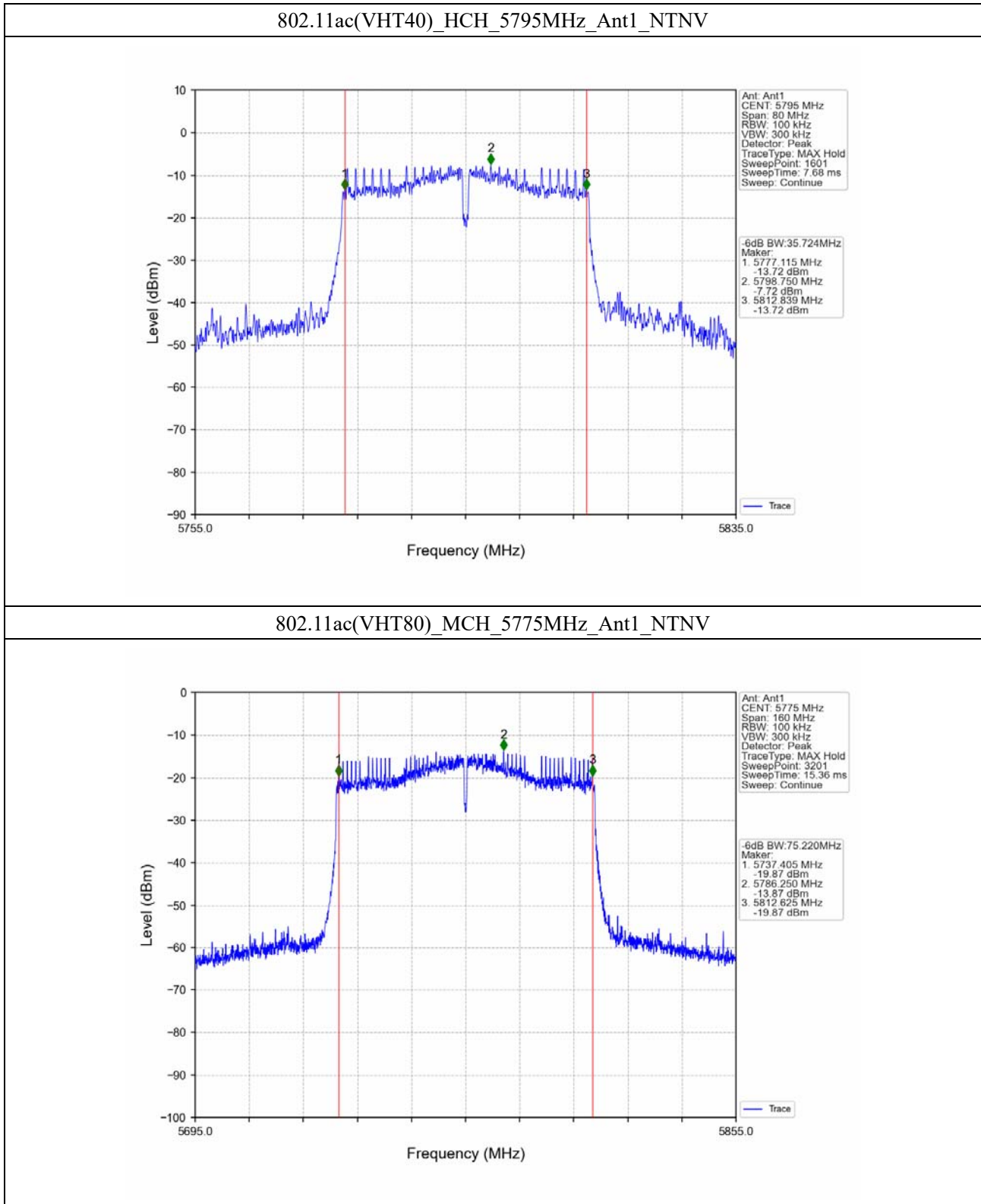
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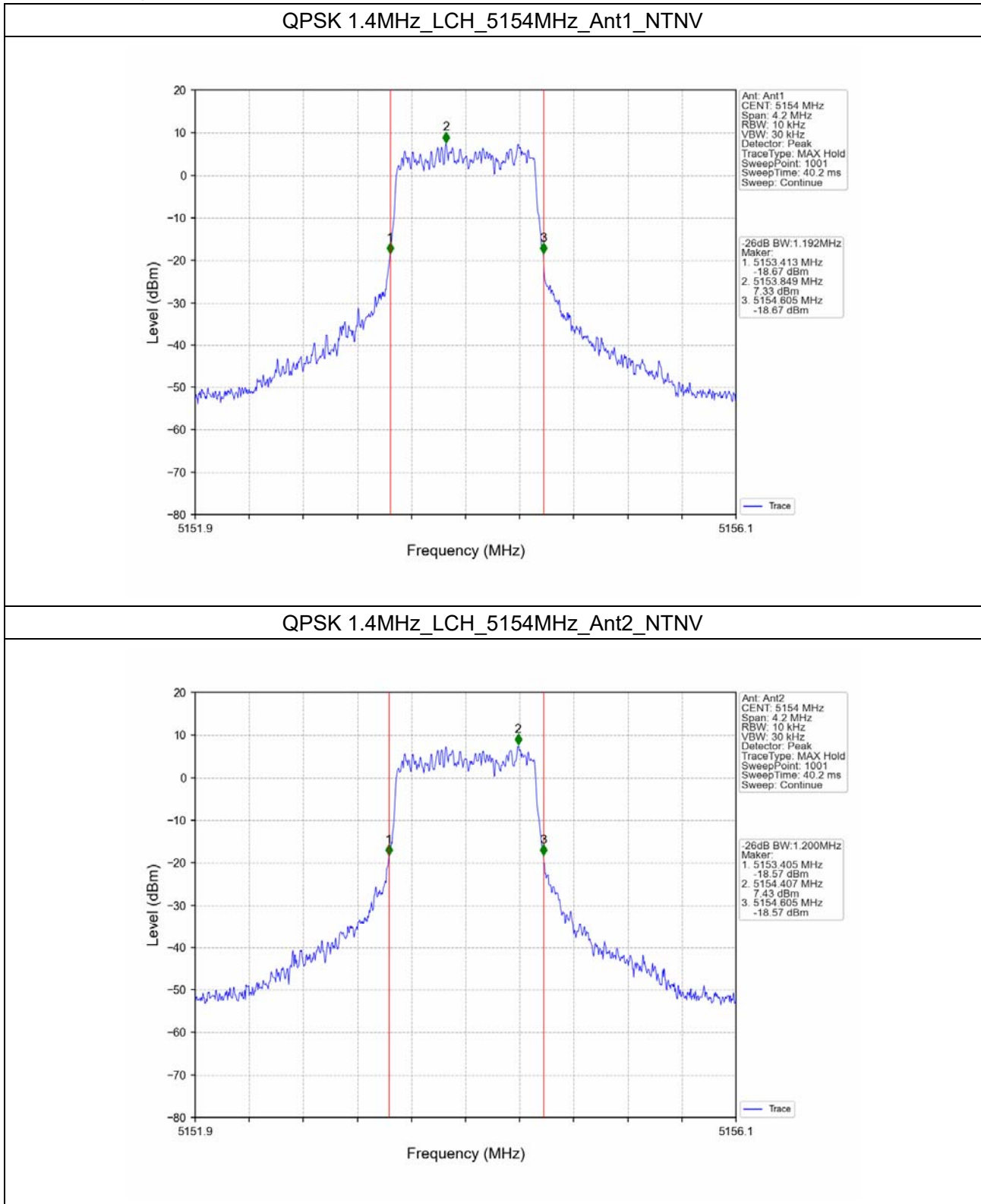
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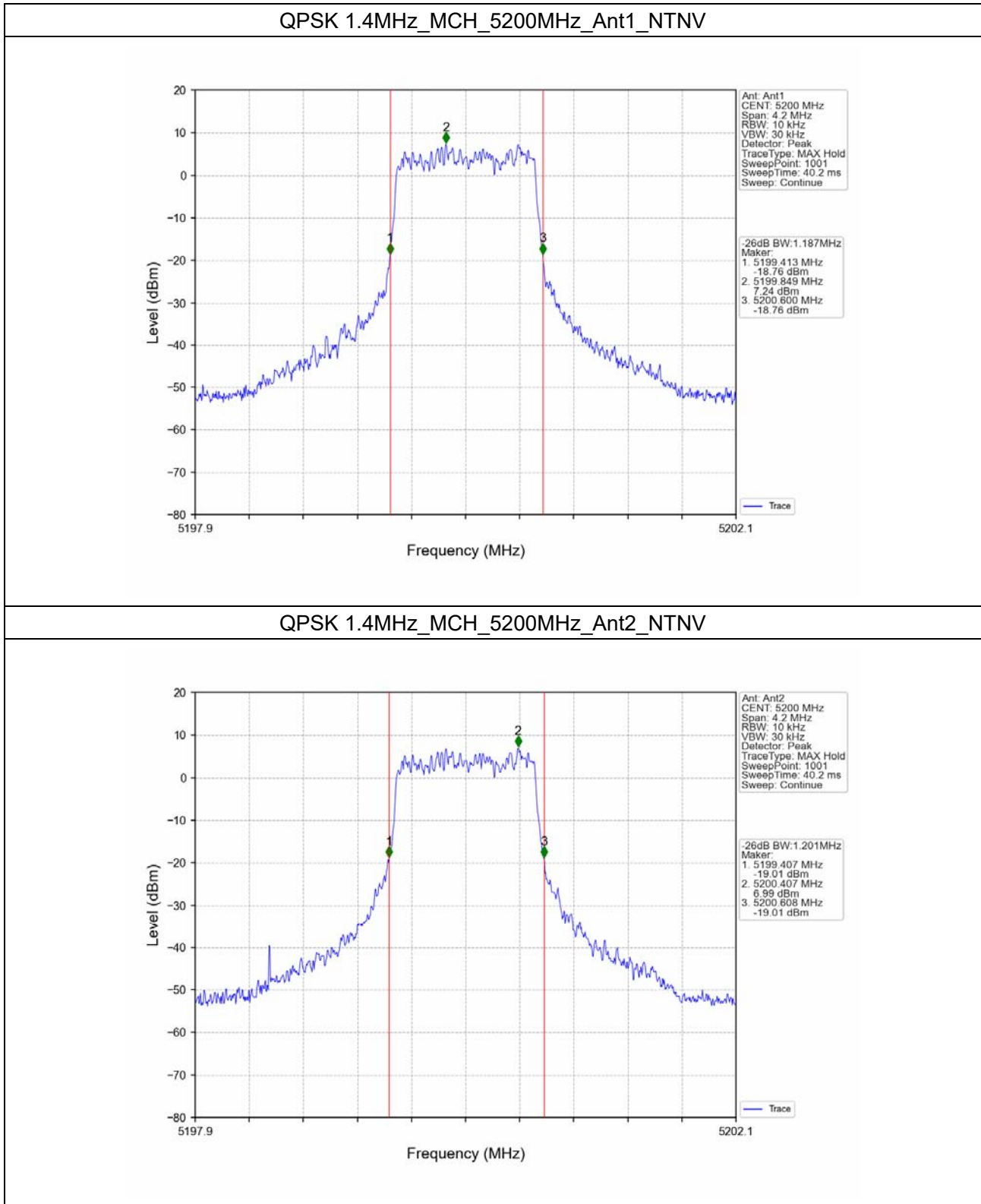
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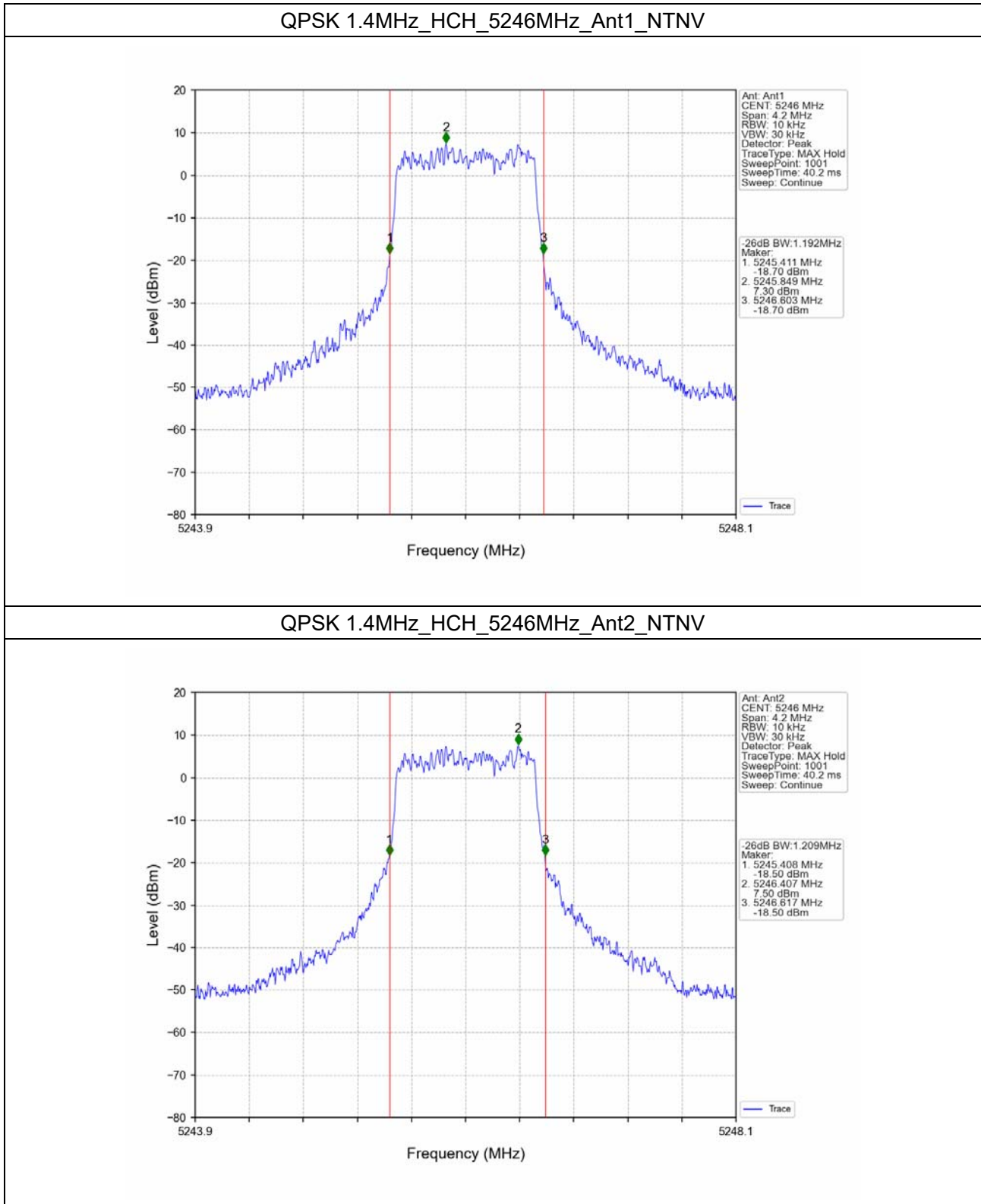
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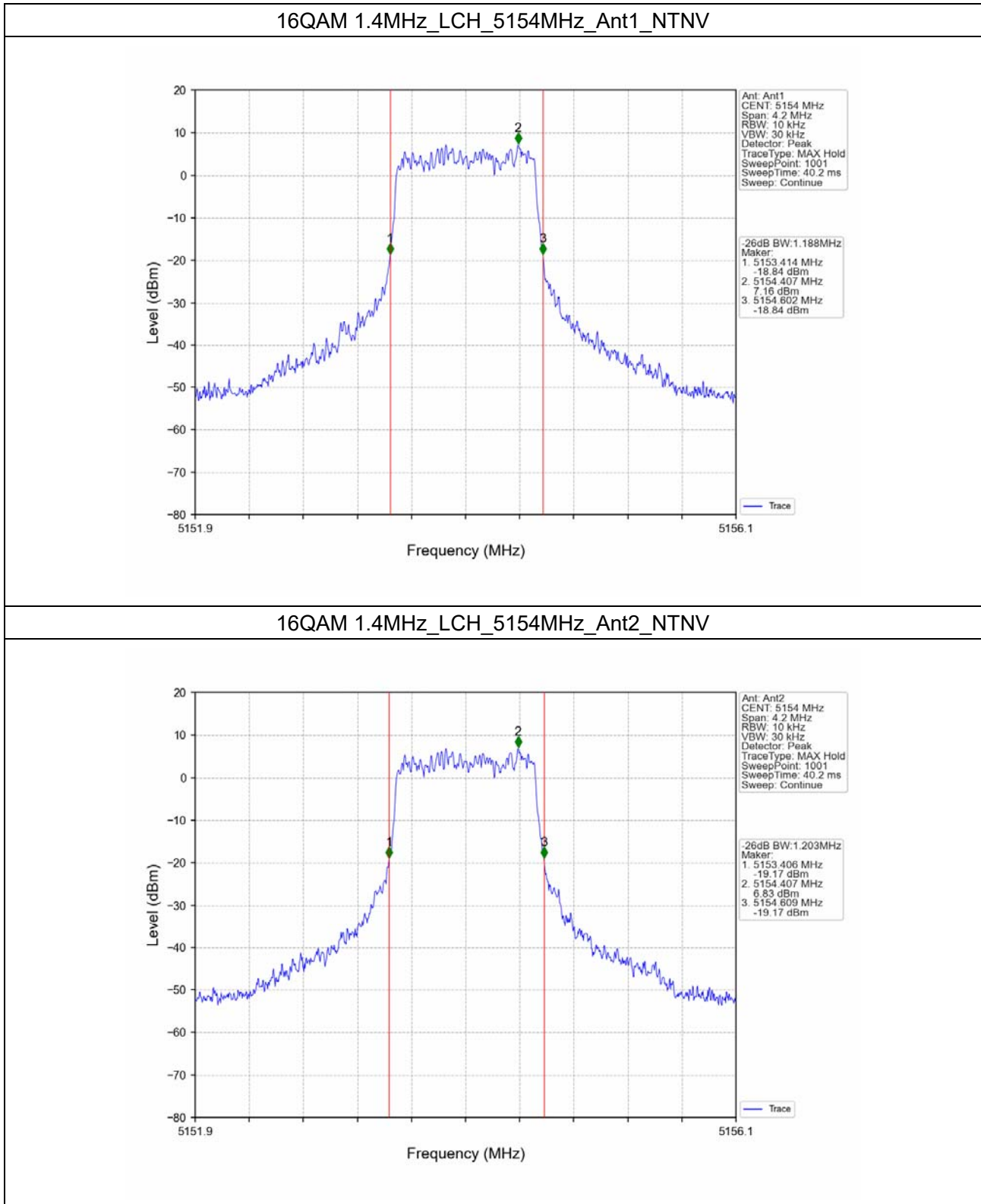
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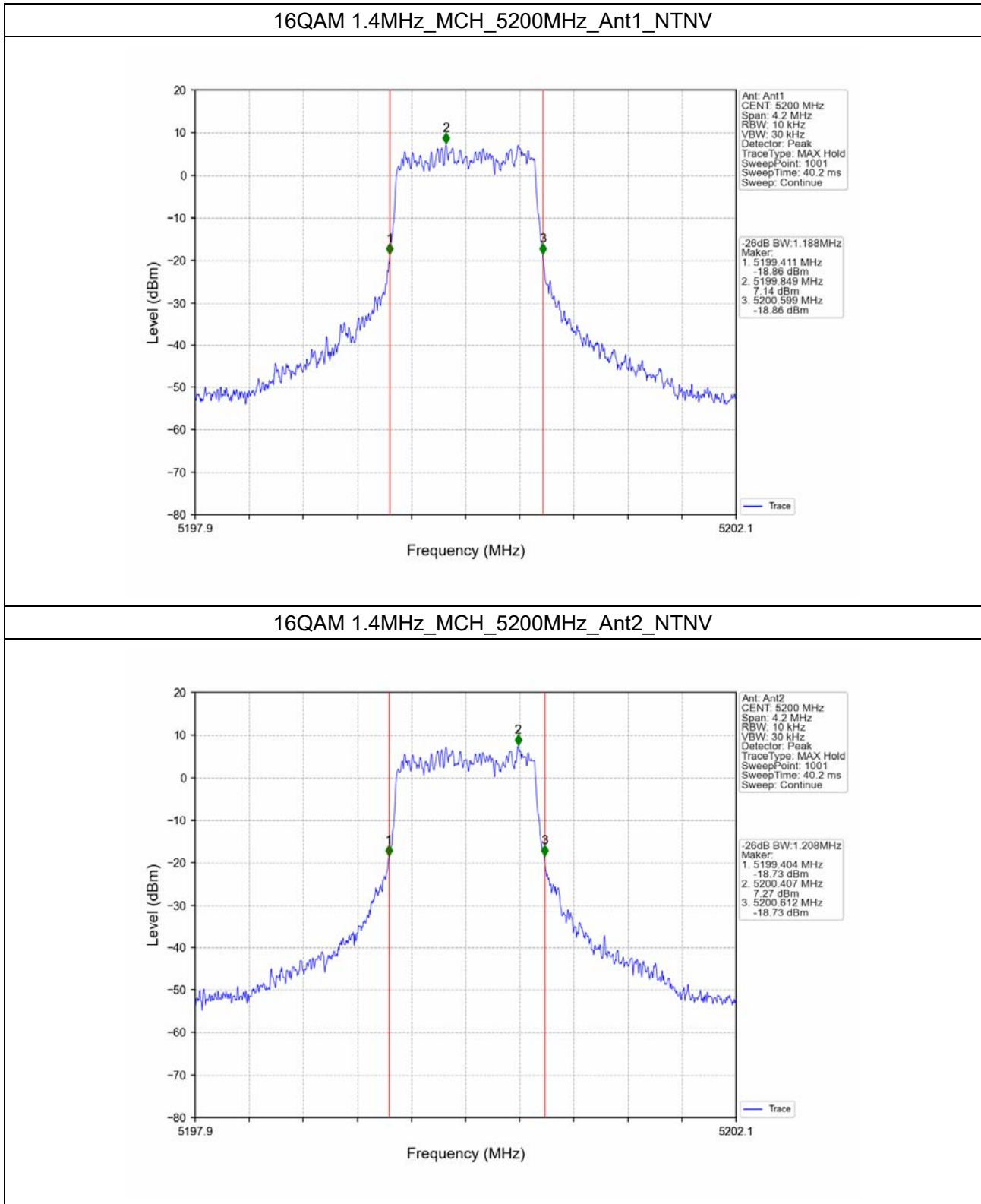
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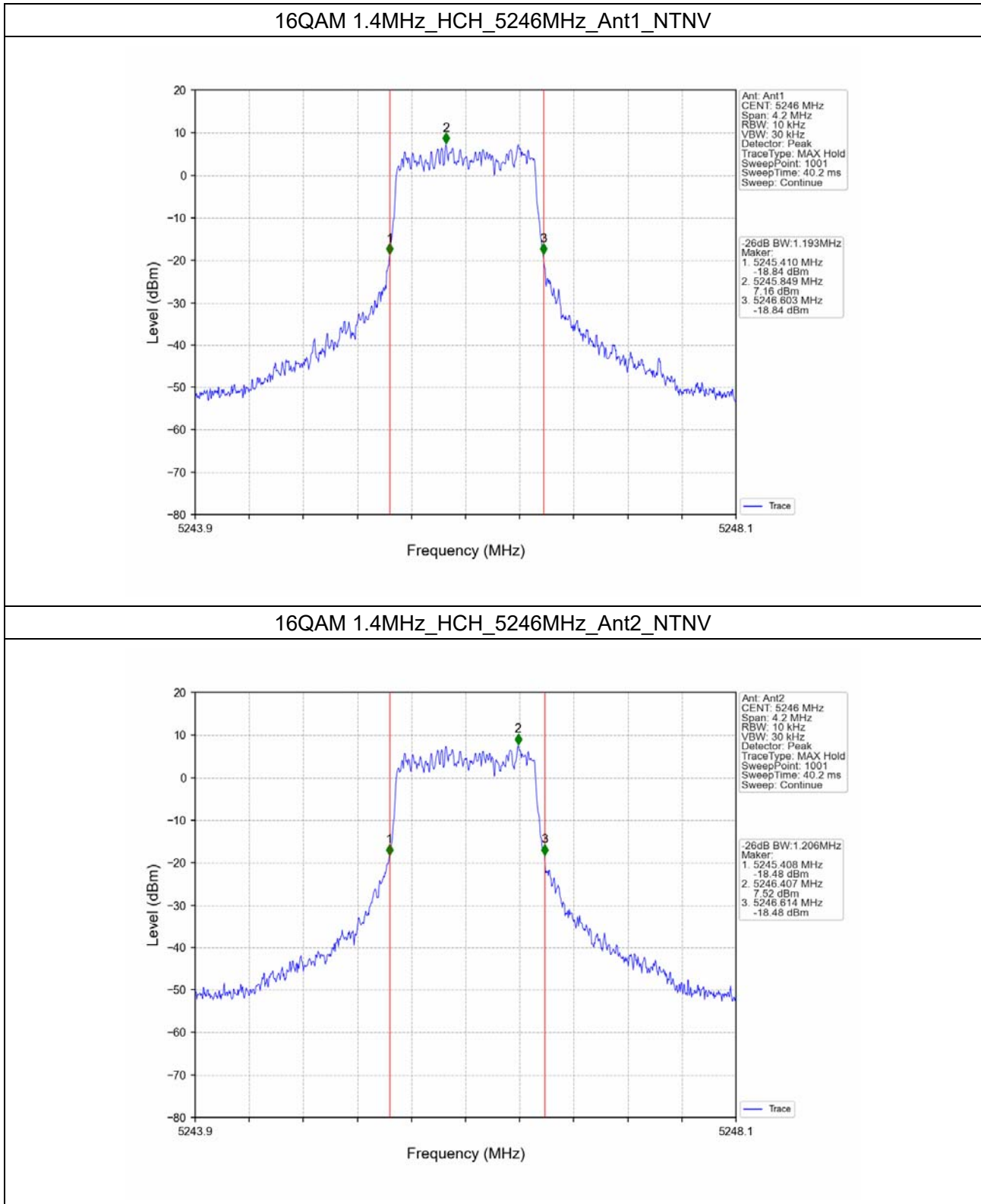
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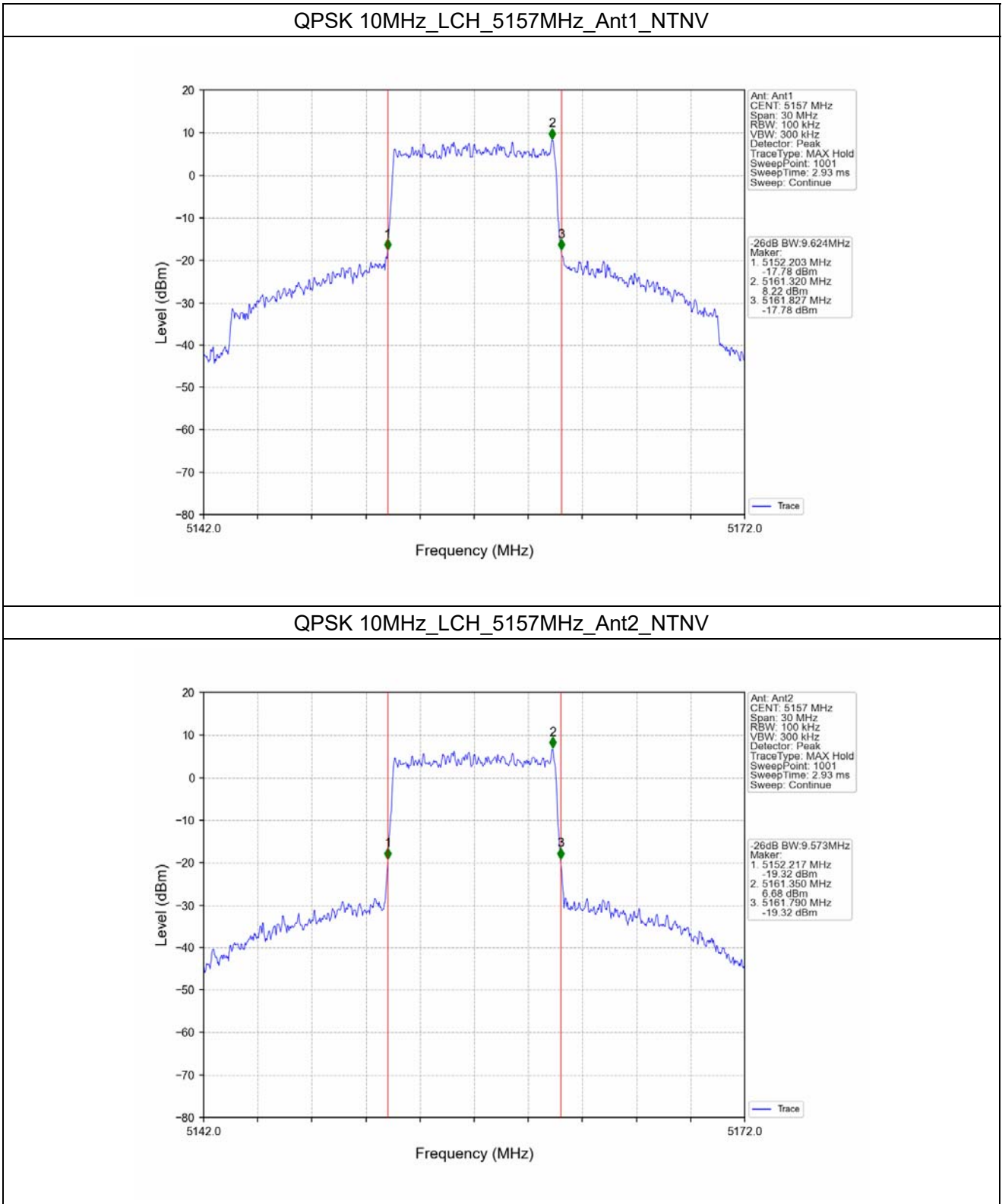
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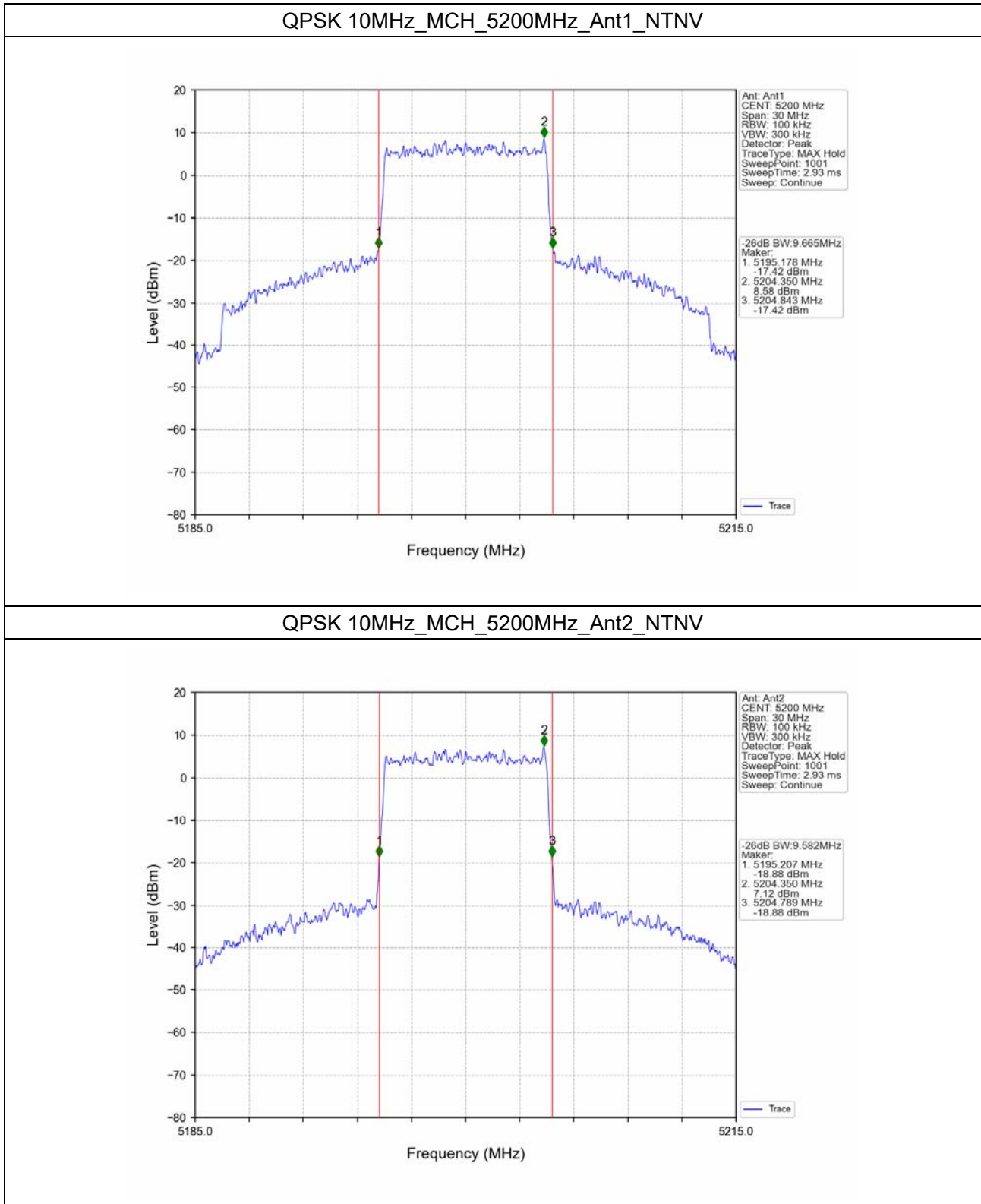
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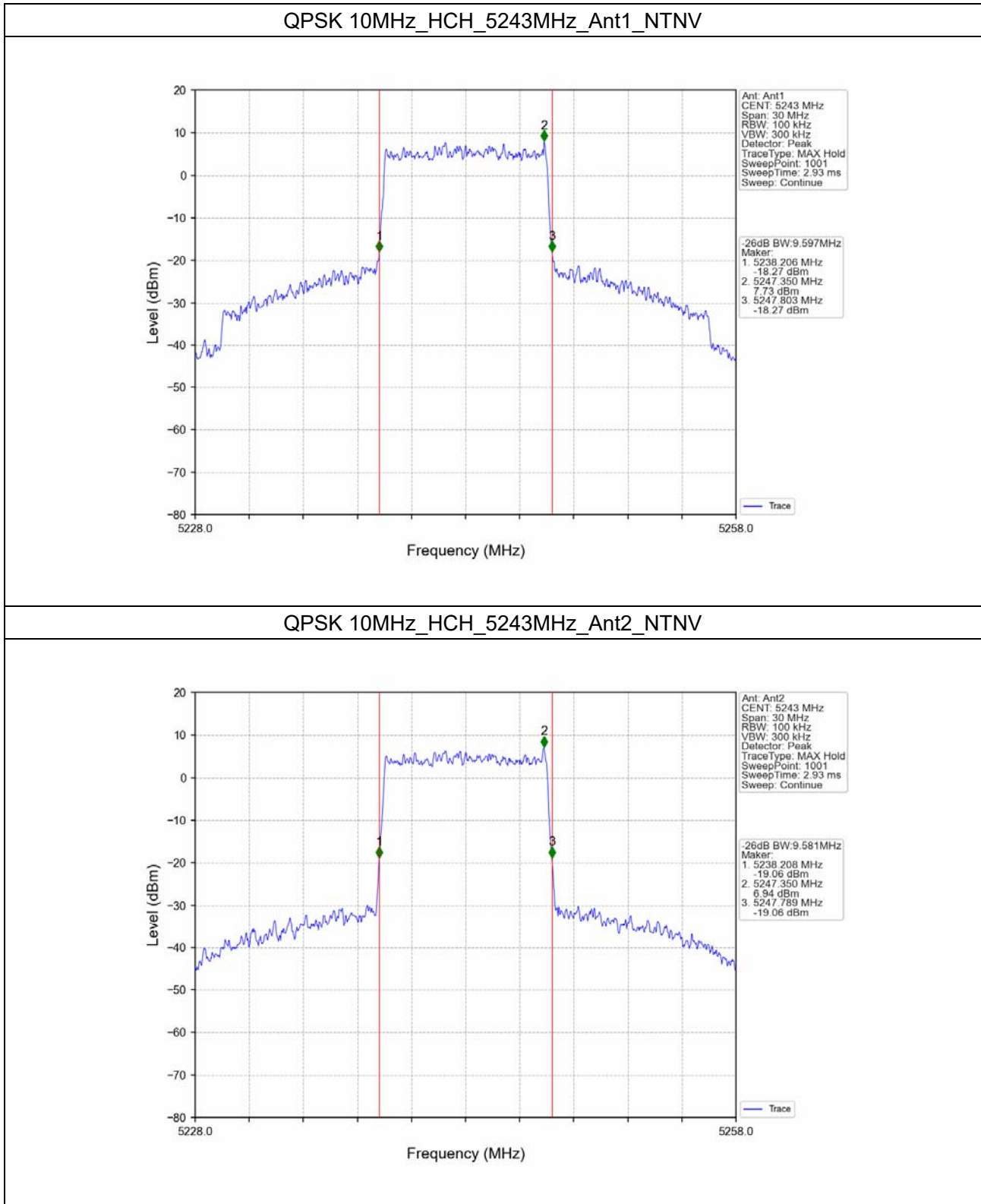
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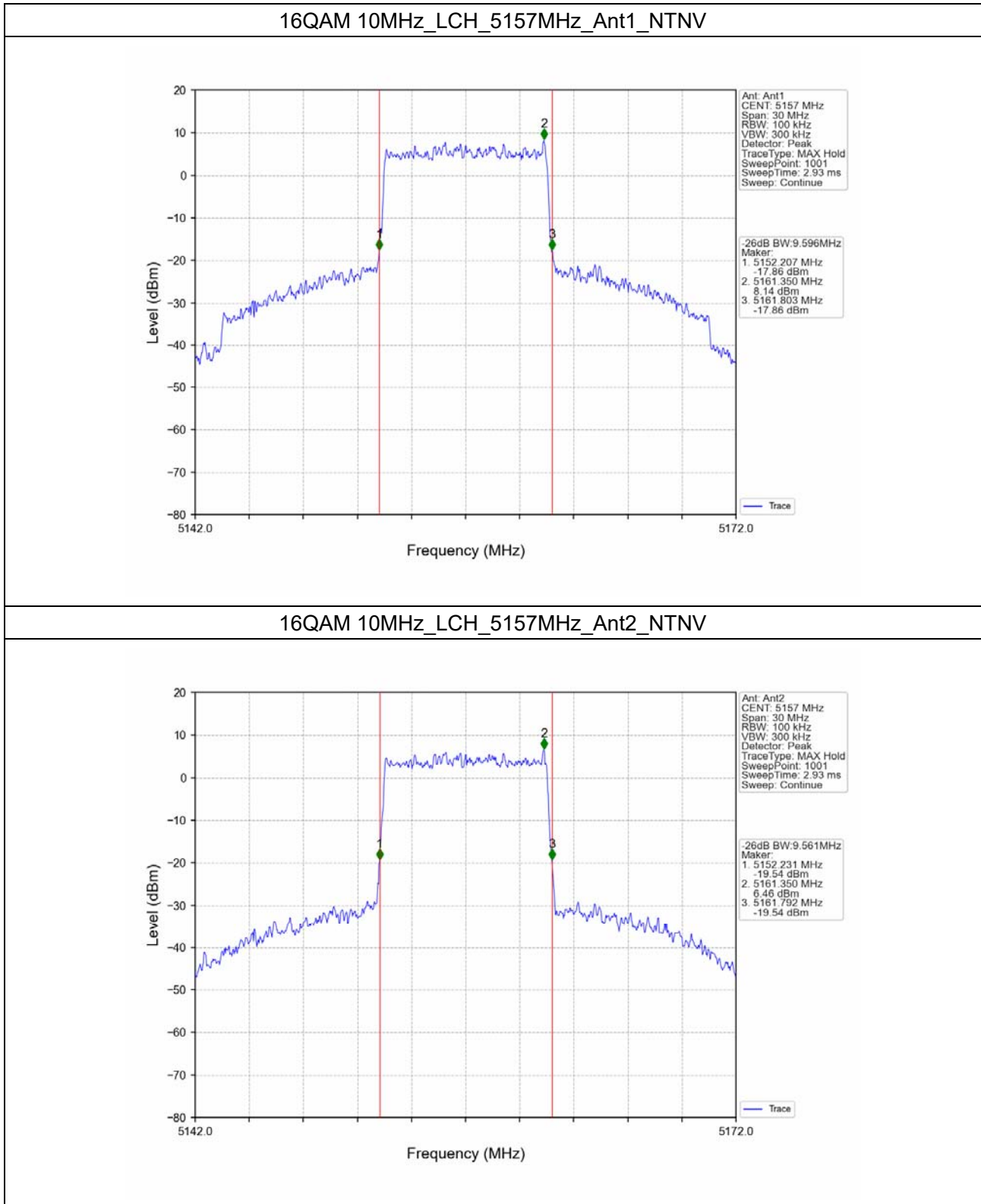
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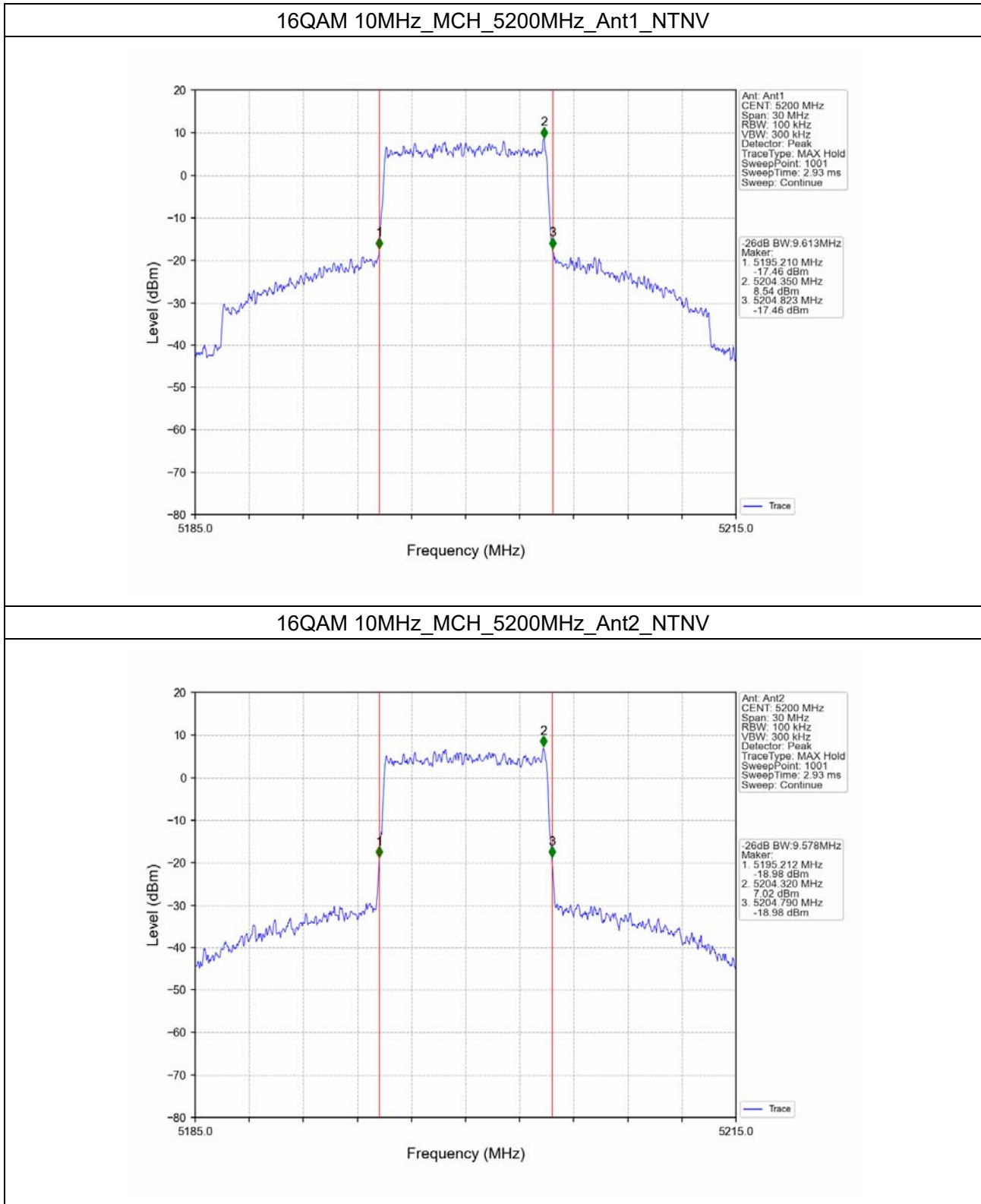
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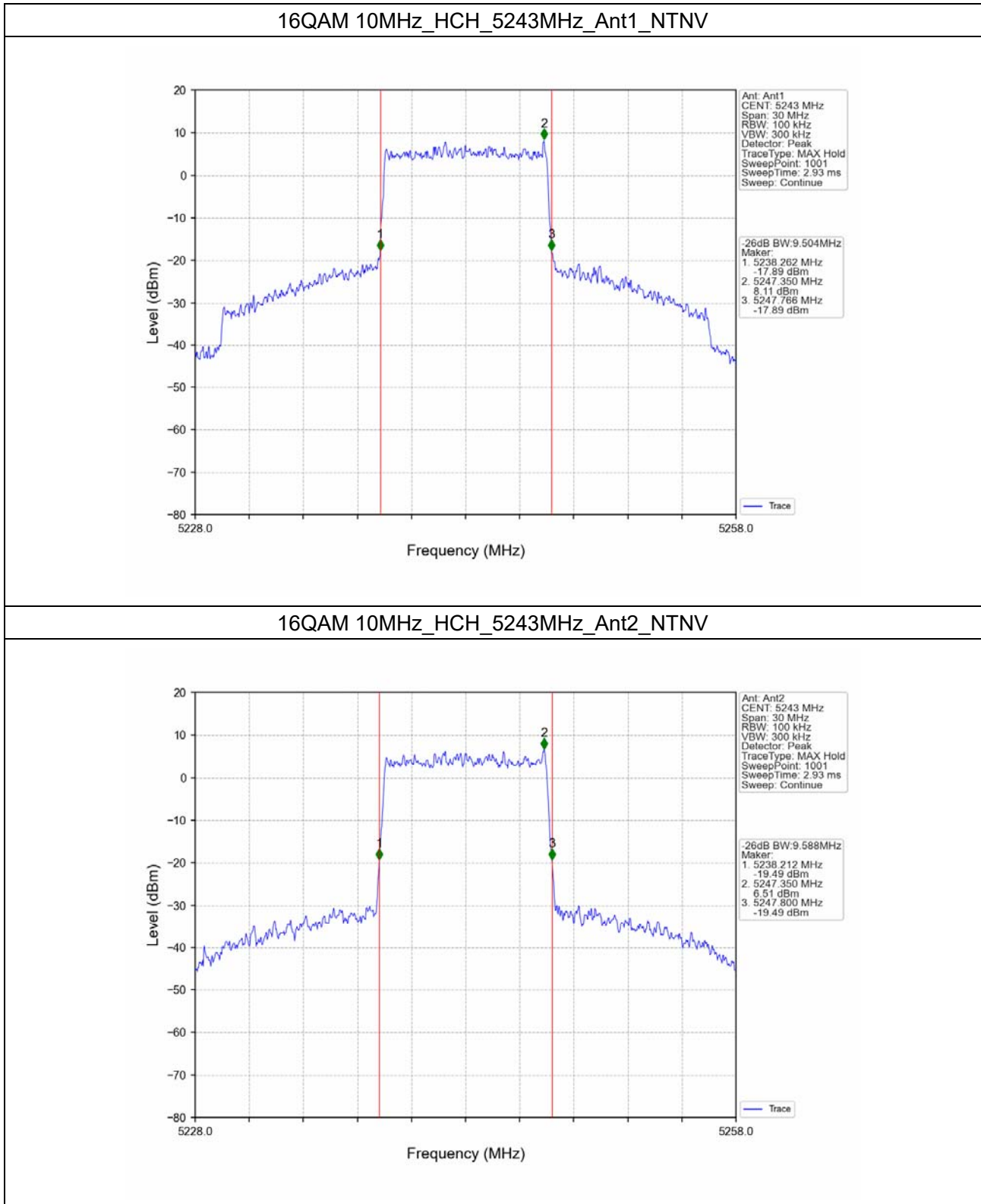
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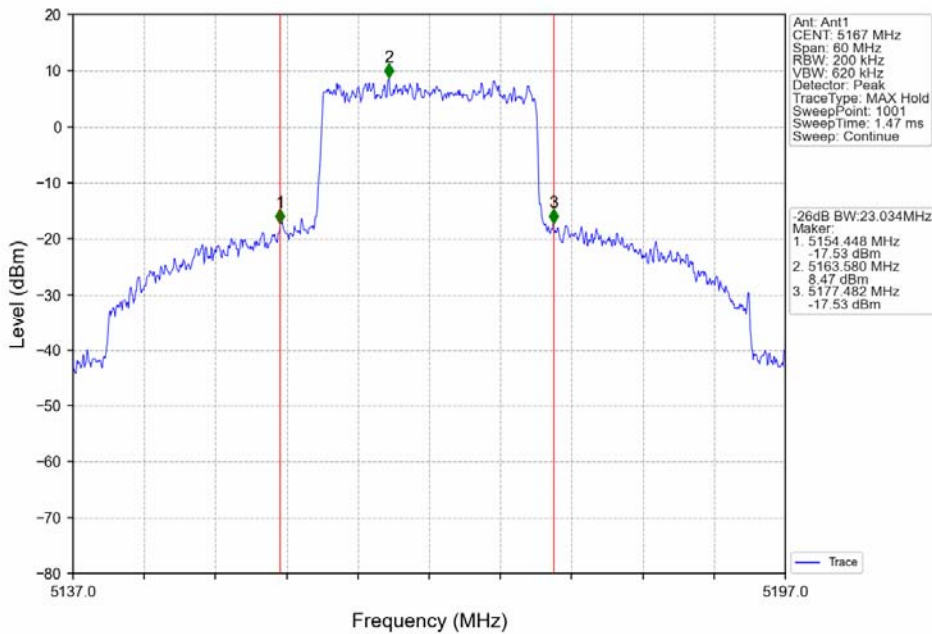
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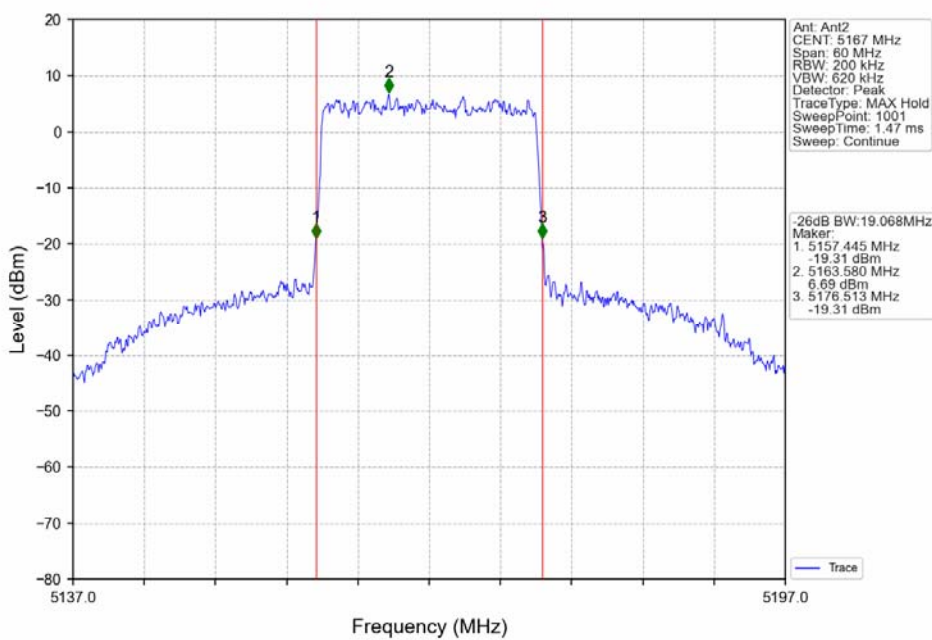
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QPSK 20MHz_LCH_5167MHz_Ant1_NTNV



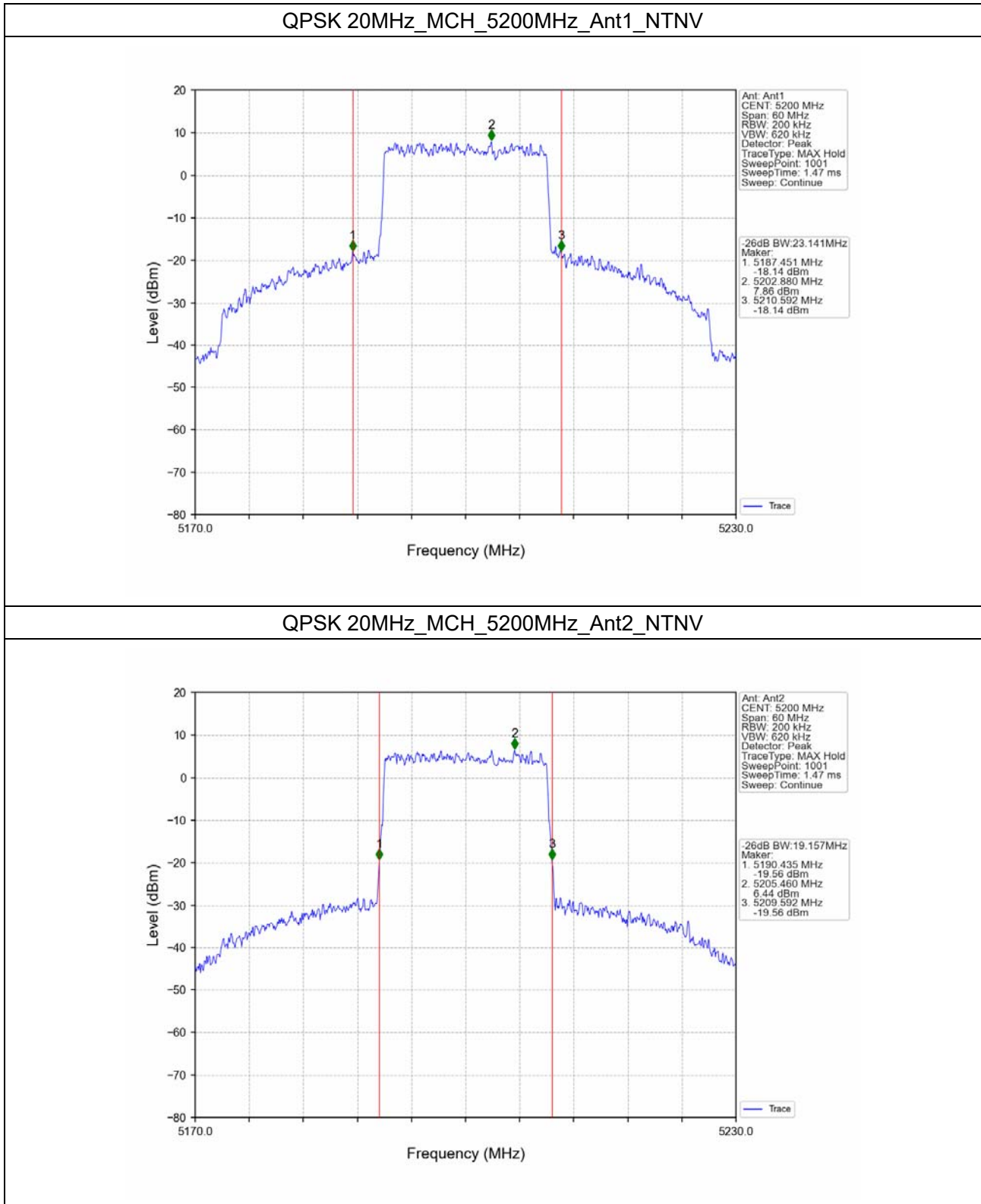
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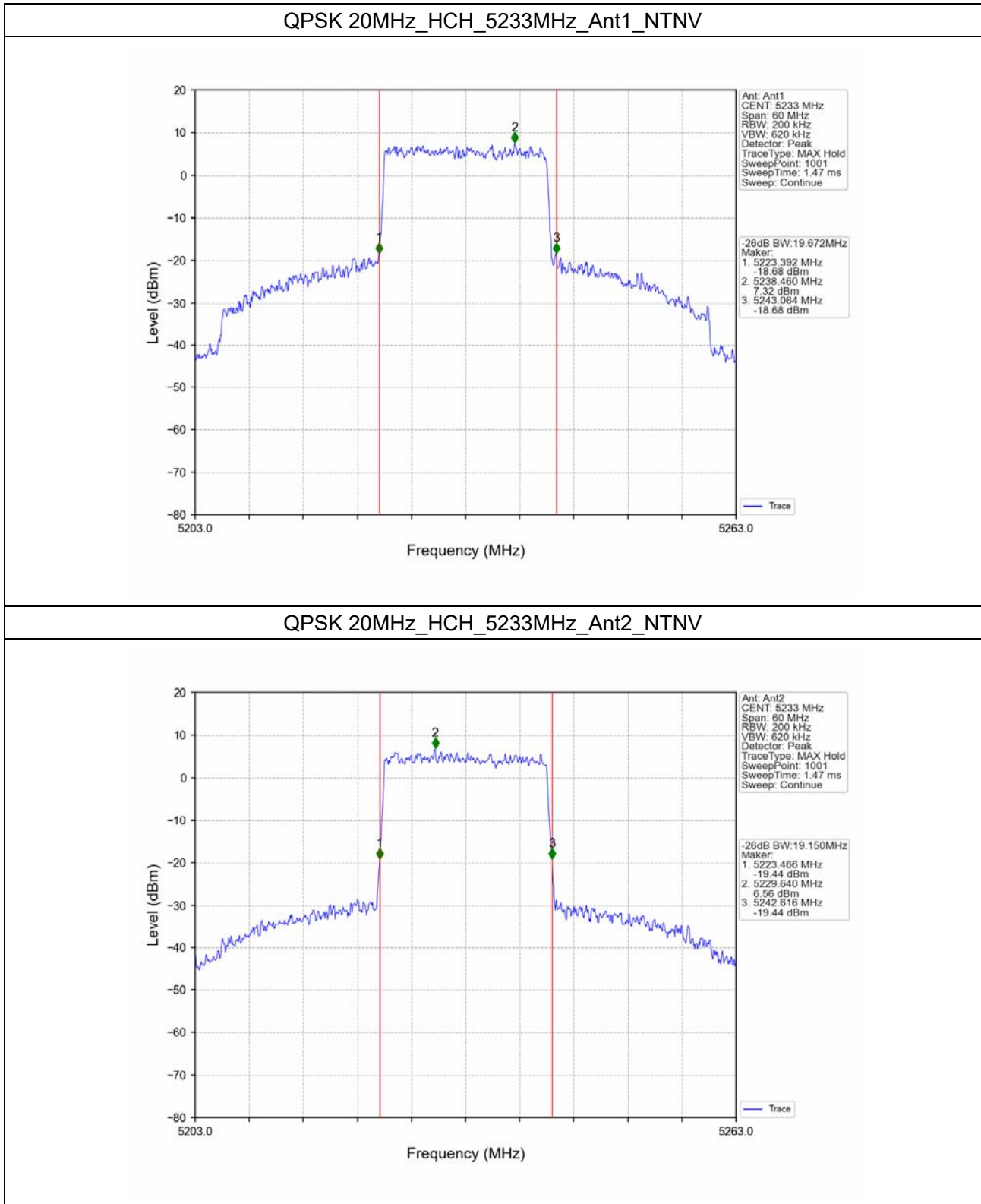
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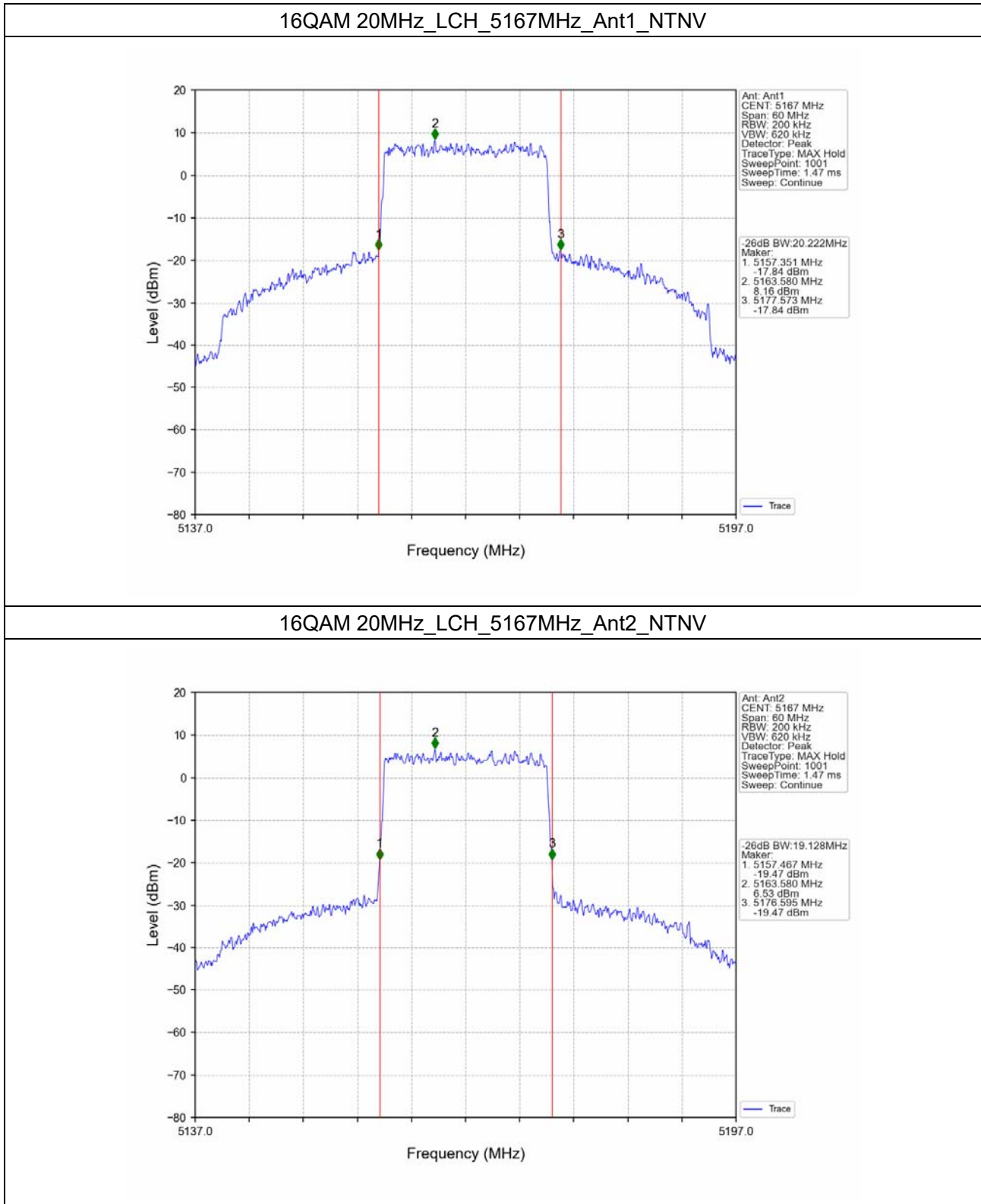
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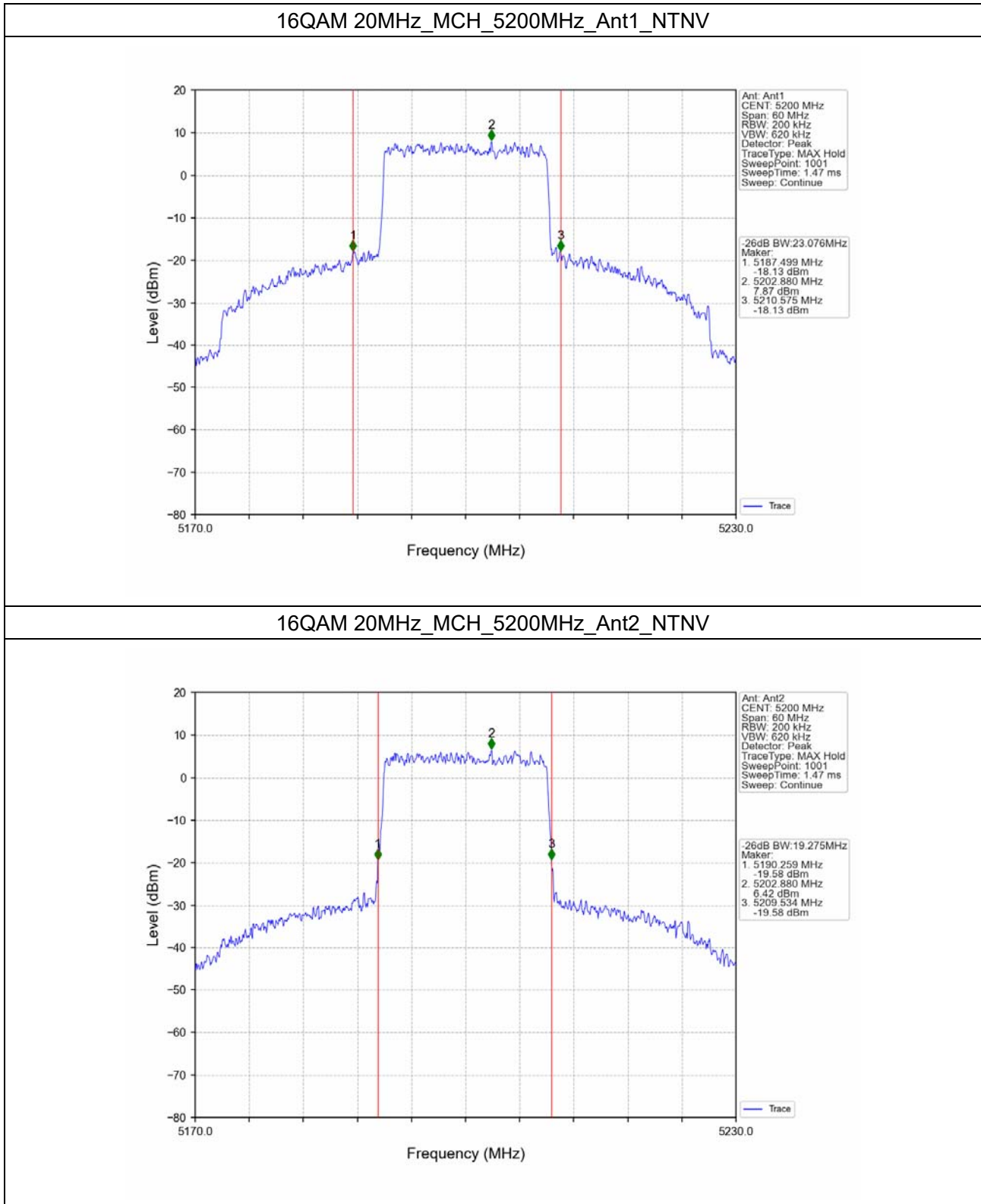
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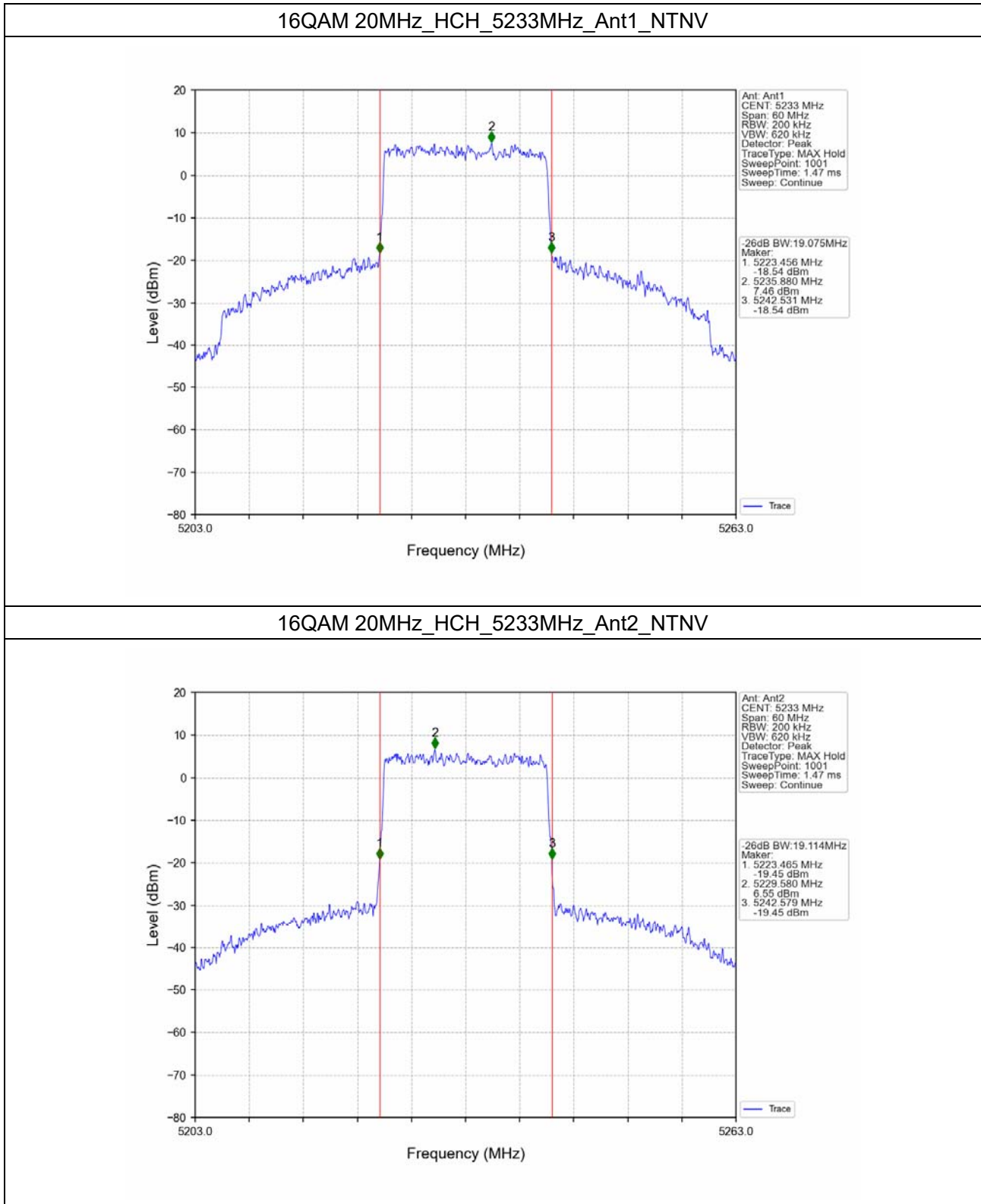
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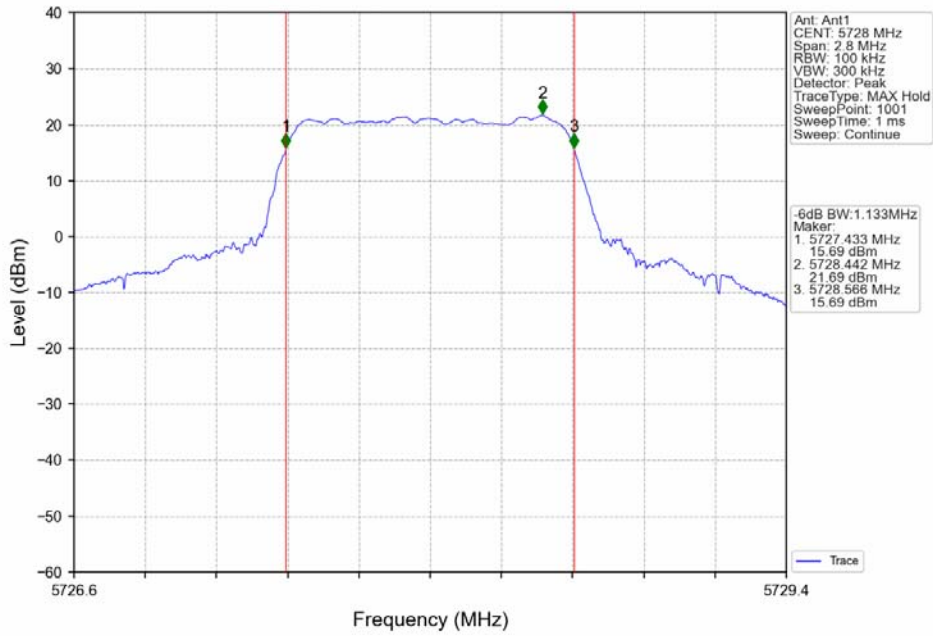
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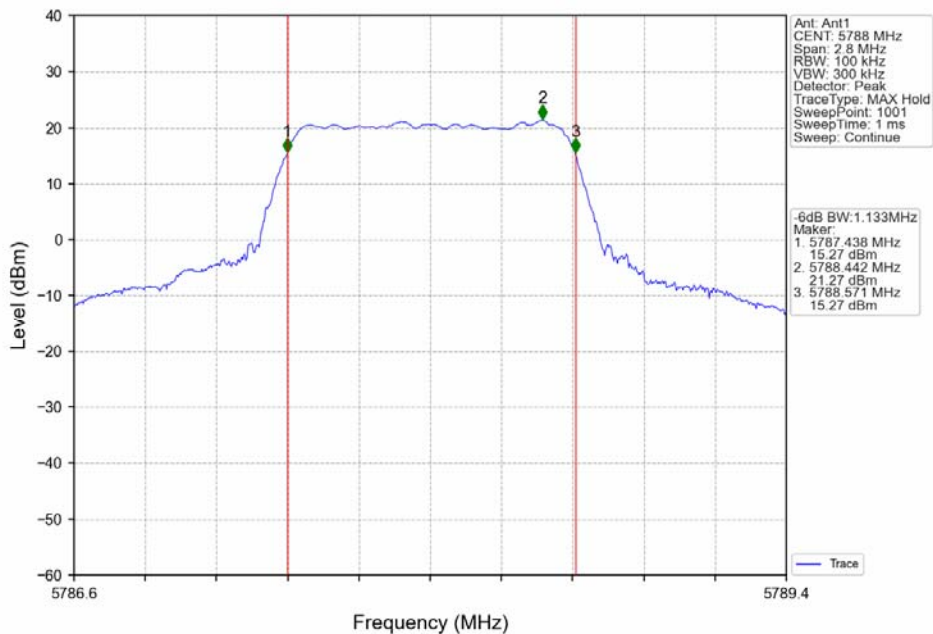
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QPSK 1.4MHz_LCH_5728MHz_Ant1_NTNV



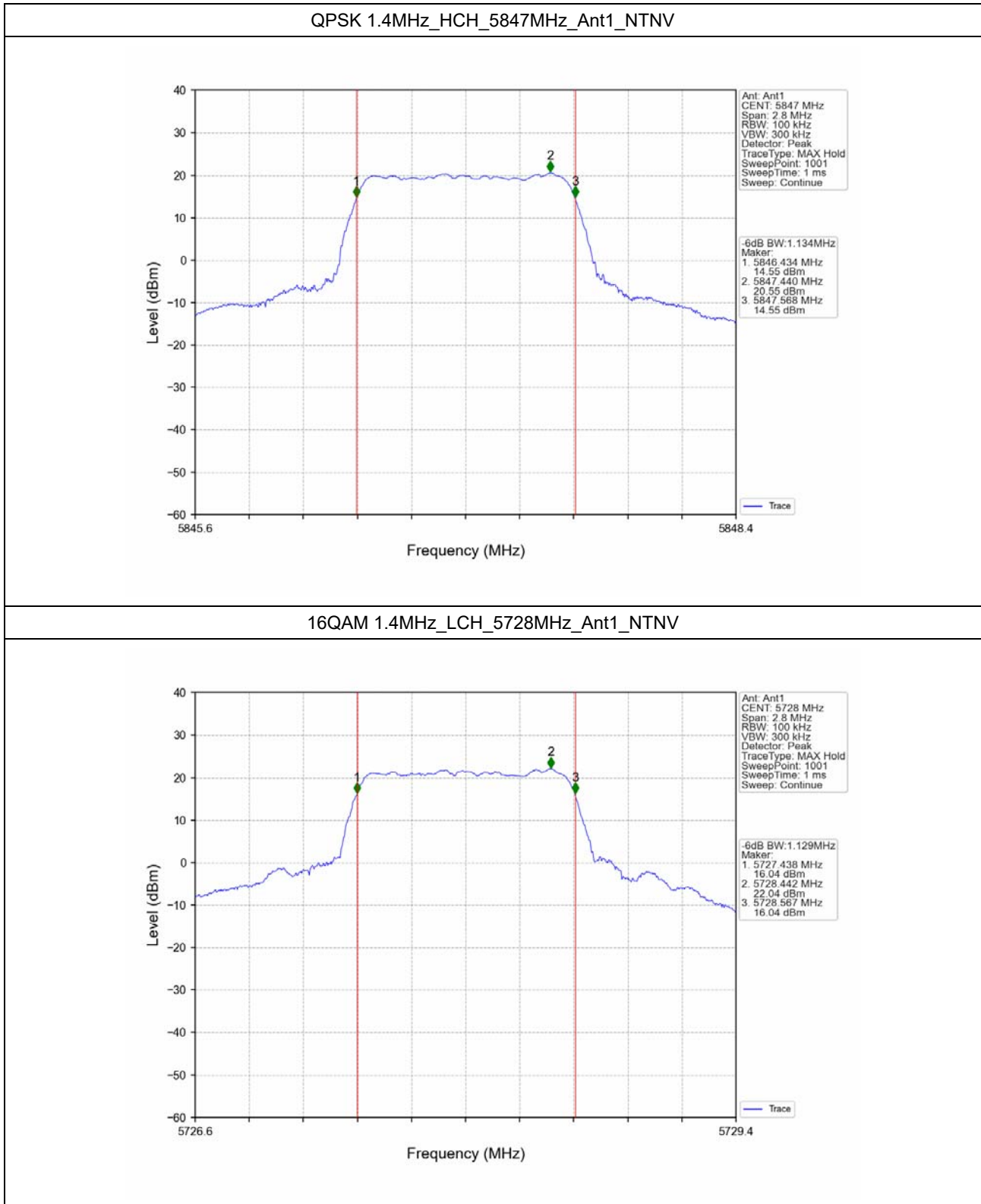
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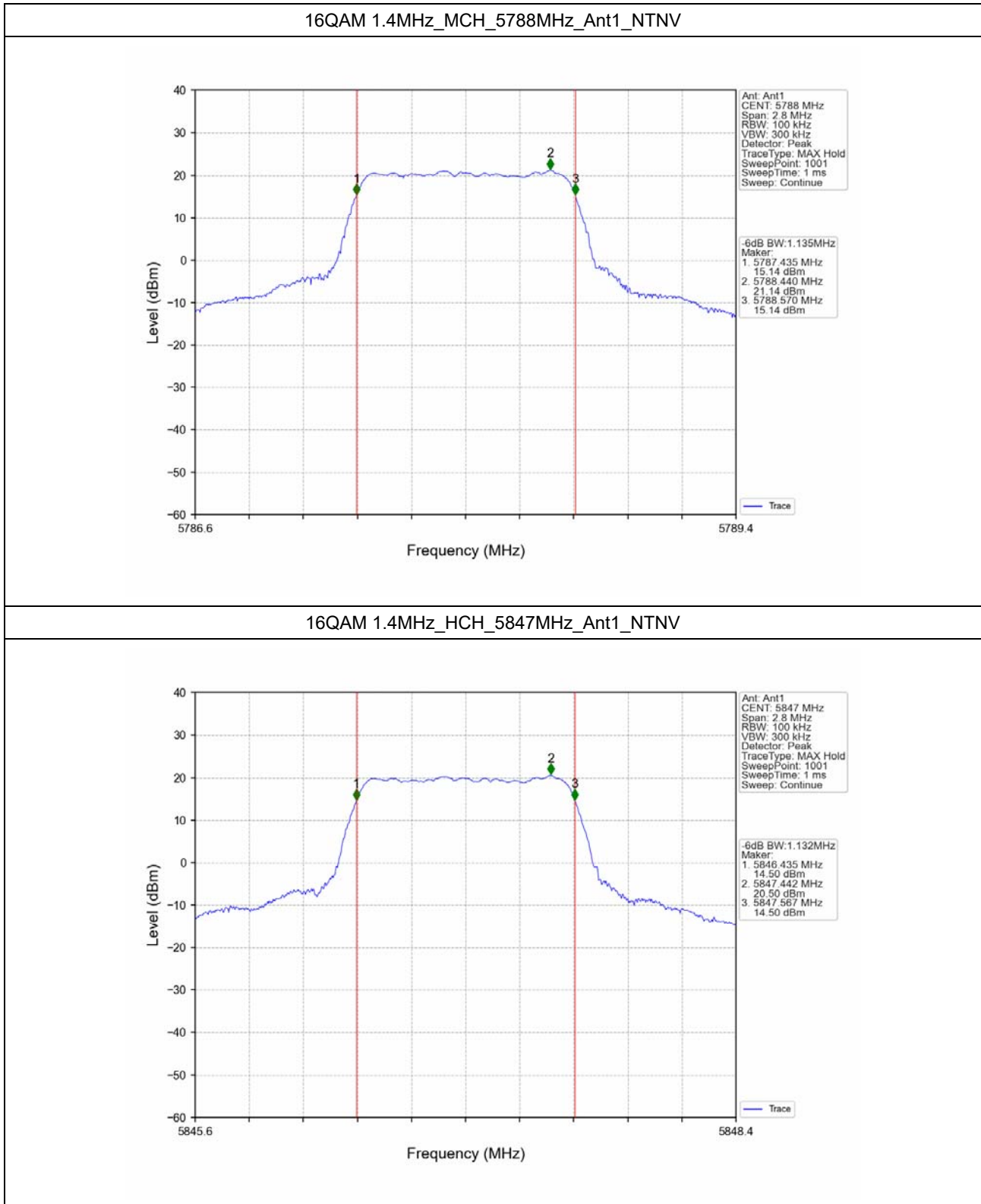
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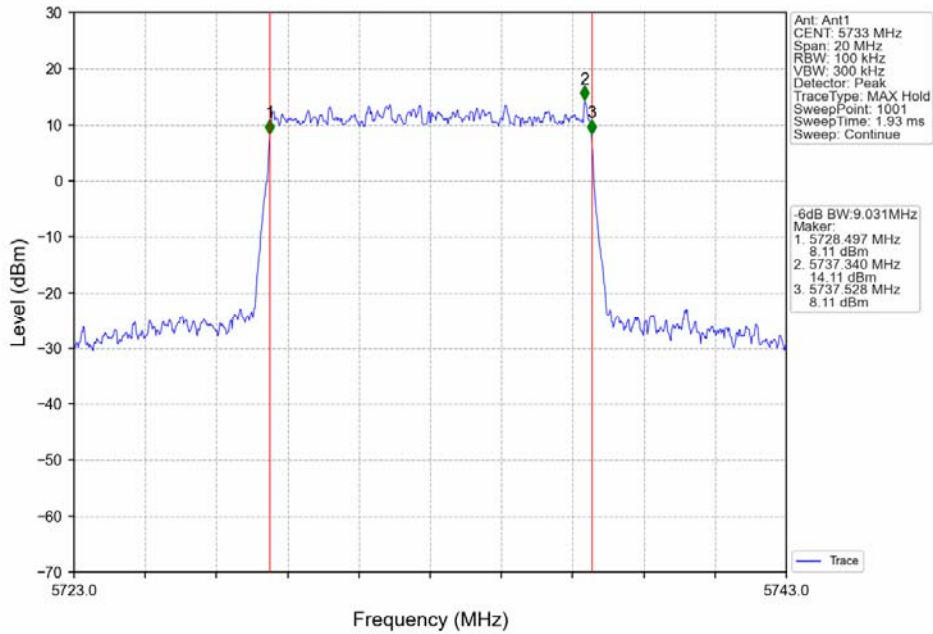
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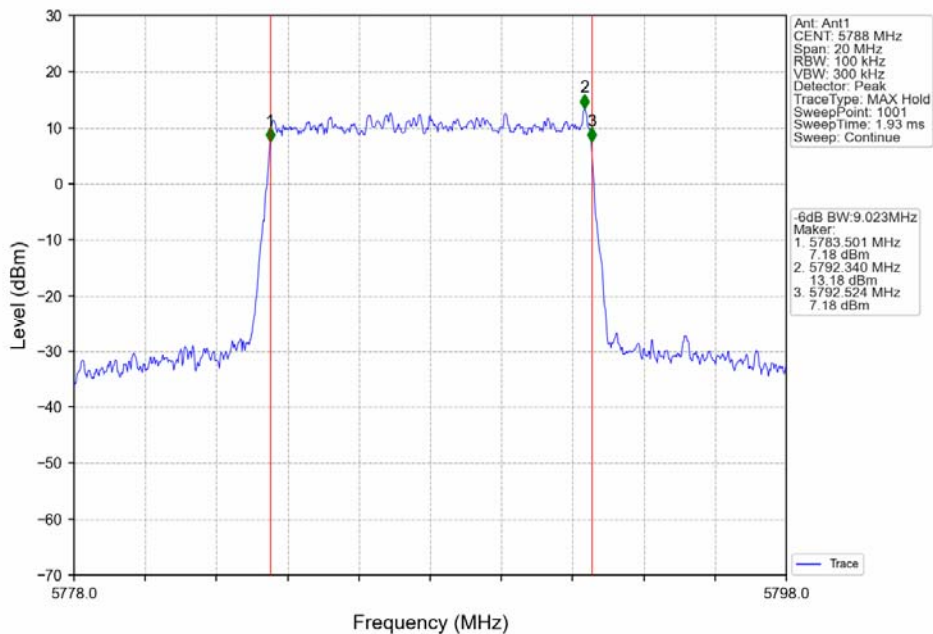
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QPSK 10MHz_LCH_5733MHz_Ant1_NTNV



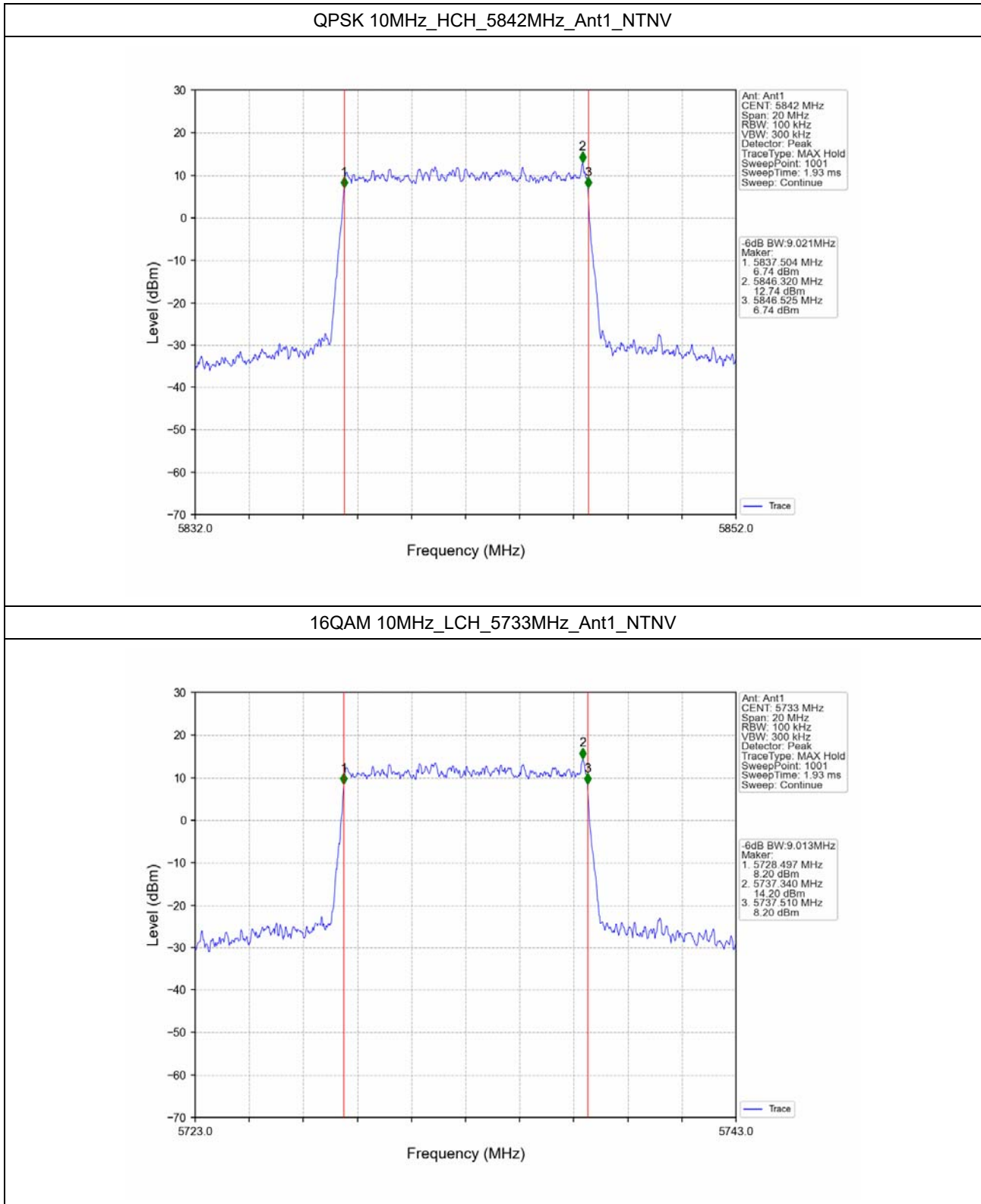
QPSK 10MHz_MCH_5788MHz_Ant1_NTNV



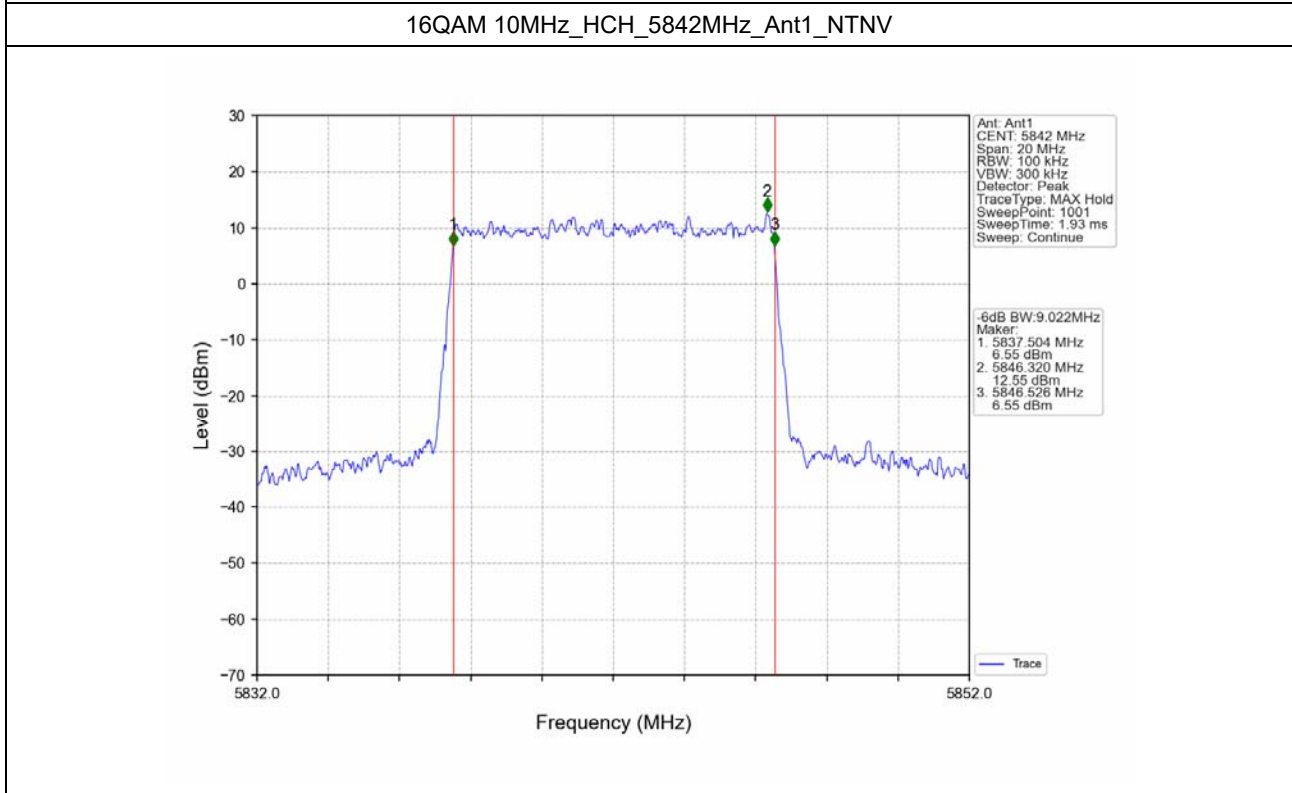
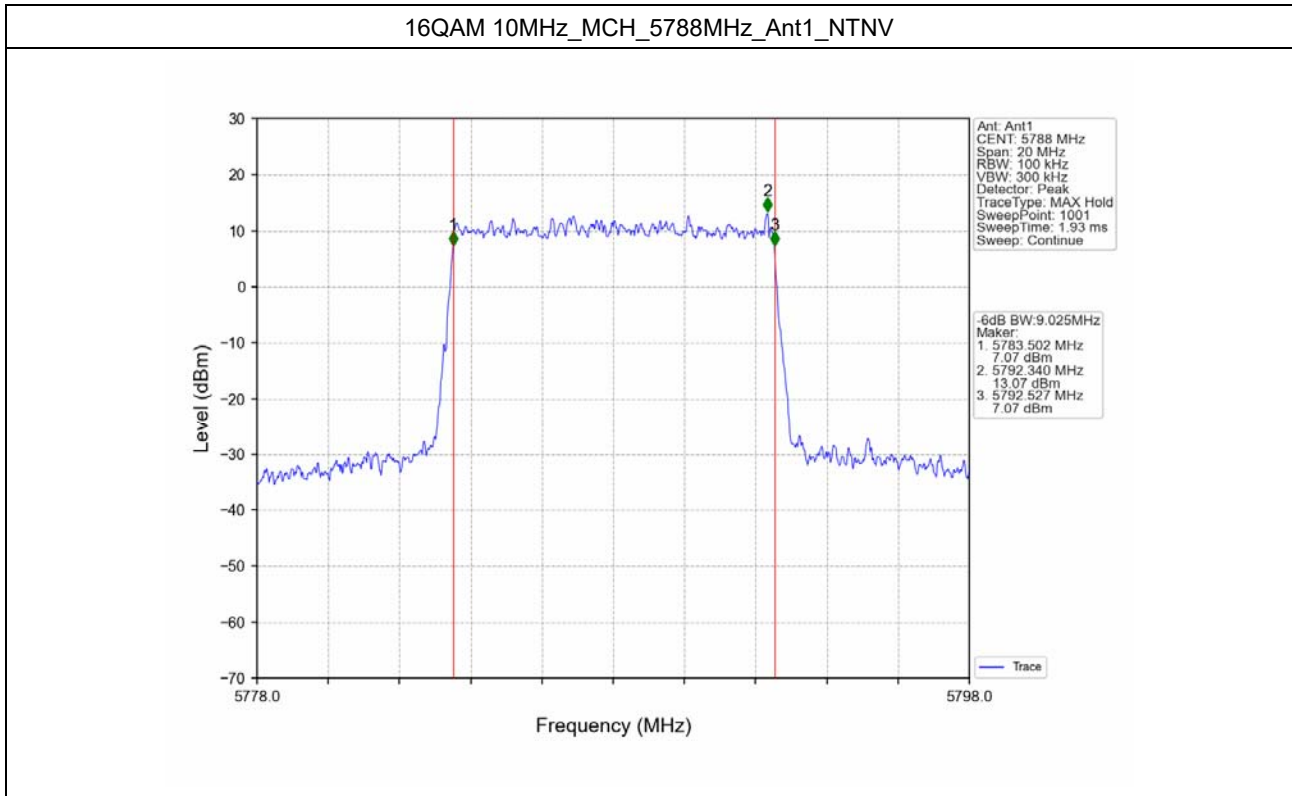
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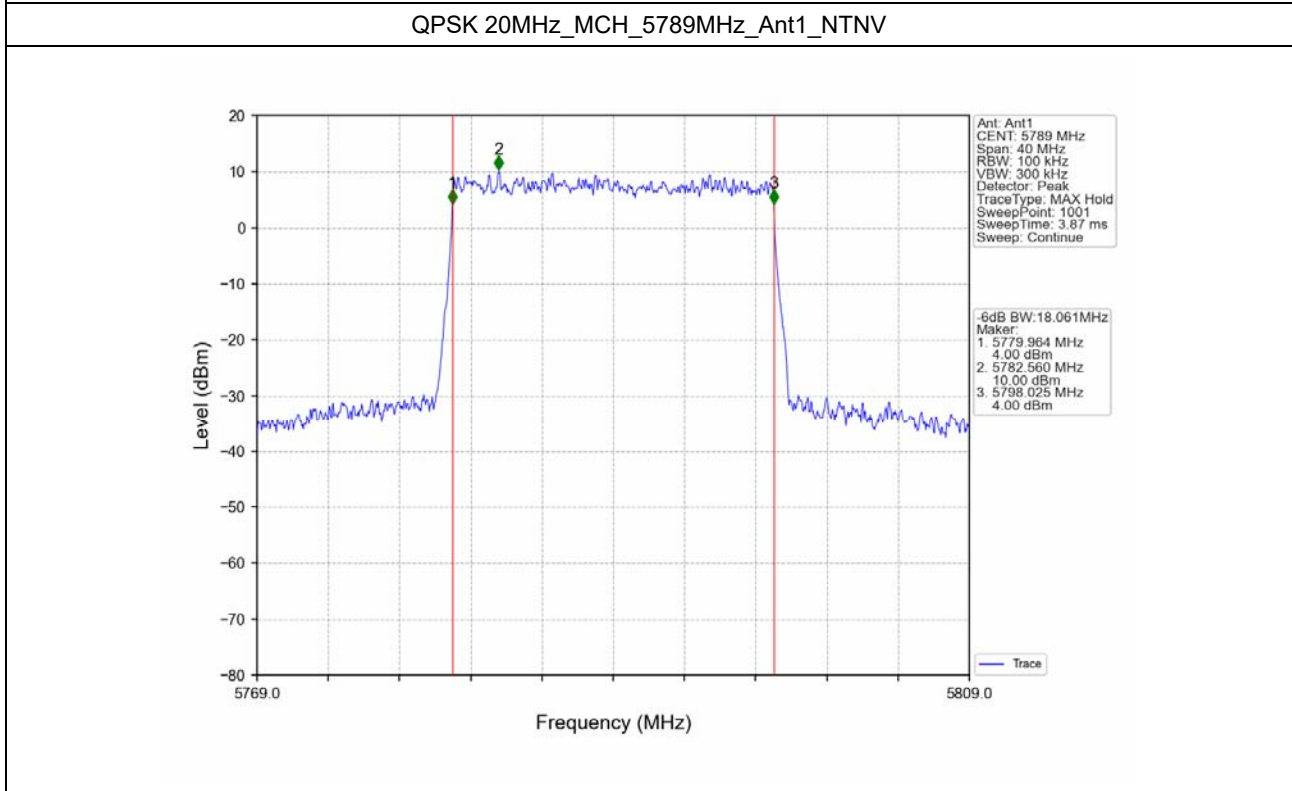
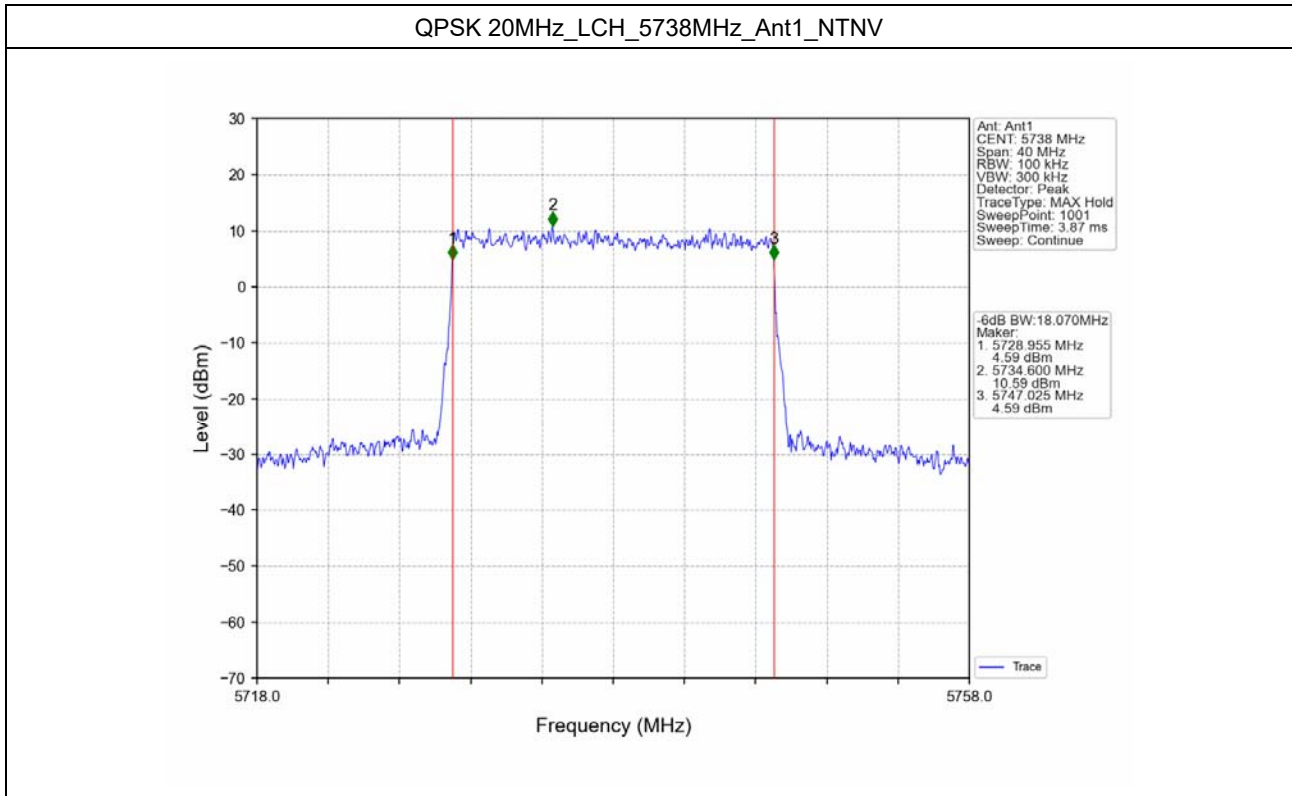
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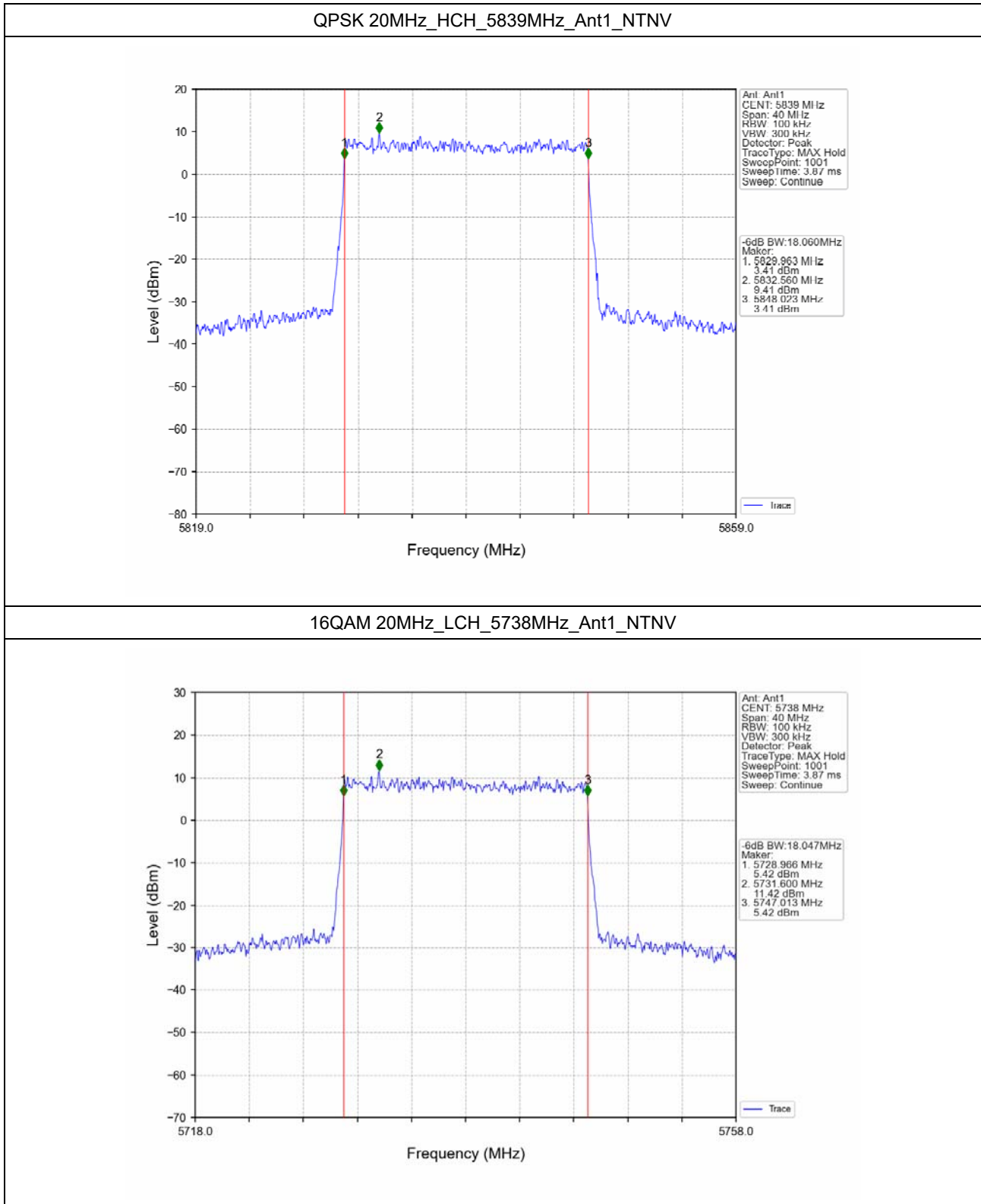
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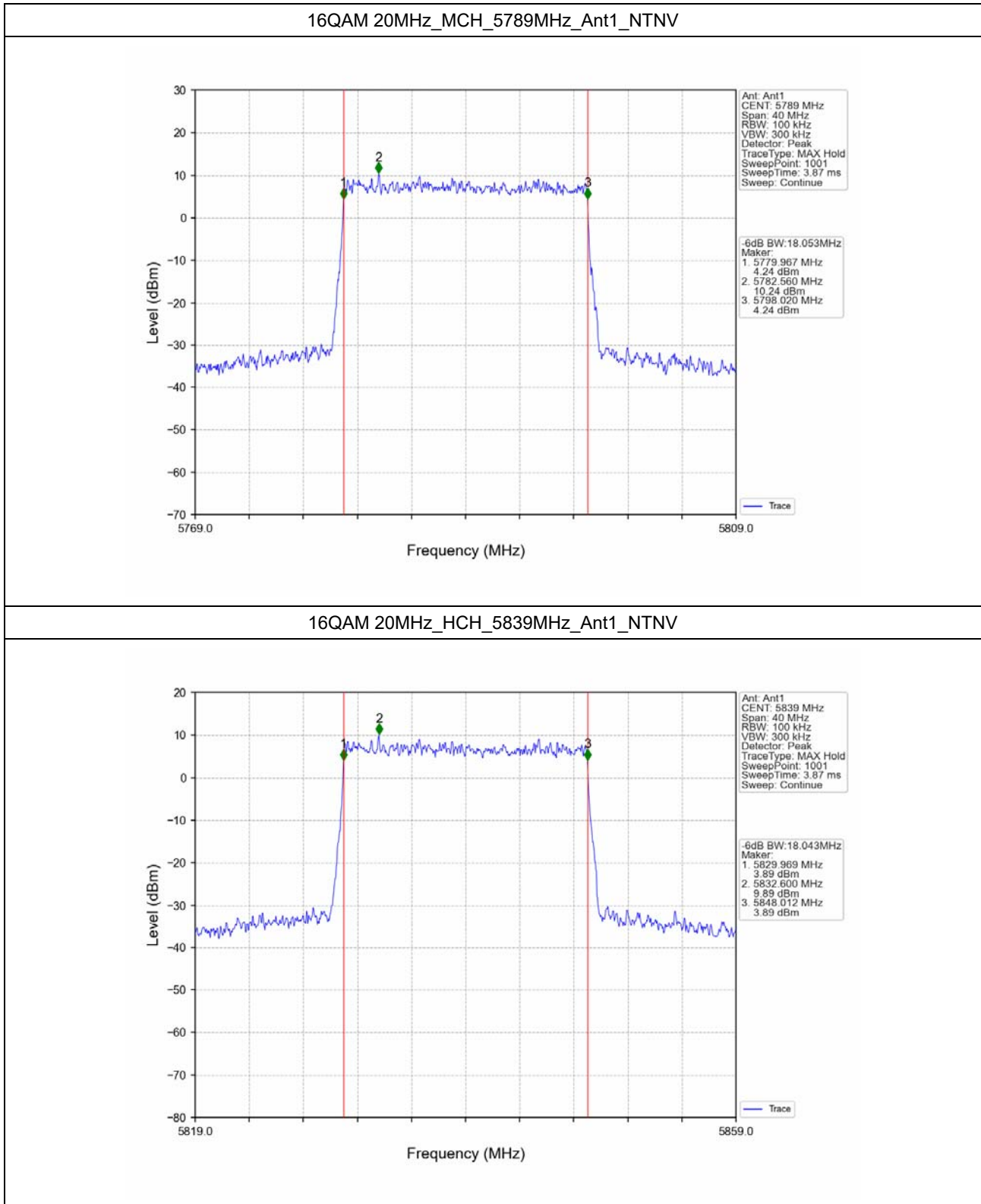
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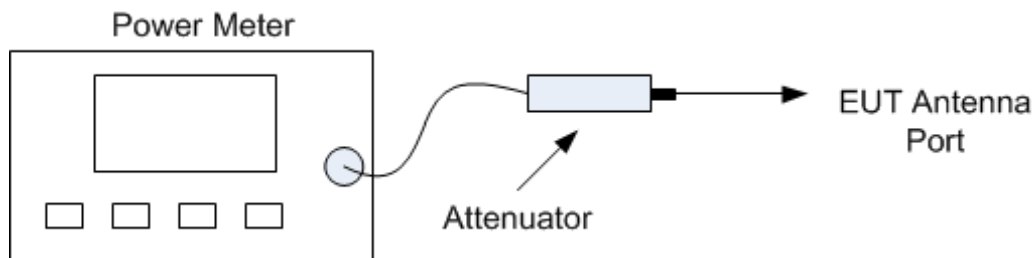


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8.0 Transmit Power Measurement

8.1 Test Setup



8.2 Limits of Peak Transmit Power Measurement

| Operation Band | EUT Category | | Limit |
|----------------|--------------|-----------------------------------|--|
| U-NII-1 | √ | Outdoor Access Point | 1 Watt (30 dBm) ≅ (Max. e.i.r.p 125mW (21 dBm) at any elevation angle above 30 degrees as measured from the horizon) |
| | | Fixed point-to-point Access Point | 1 Watt (30 dBm) |
| | | Indoor Access Point | 1 Watt (30 dBm) |
| | | Mobile and Portable client device | 250mW (24 dBm) |
| U-NII-2A | -- | | 250mW (24 dBm) or 11 dBm+10 log B* |
| U-NII-2C | -- | | 250mW (24 dBm) or 11 dBm+10 log B* |
| U-NII-3 | -- | | 1 Watt (30 dBm) |

Note: Where B is the 26dB emission bandwidth in MHz.

8.3 Test Procedure

- The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- The maximum conducted output power was performed in accordance with method 11.9.2.3.1 (for AVG power) of ANSI C63.10-2013 and FCC KDB 662911 D01 v02r01 Multiple Transmitter Output.

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8.4 Test Results

5G wifi

| Mode | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) | | Verdict |
|------------------|---------|-----------------|--|-------|---------|
| | | | ANT1 | Limit | |
| 802.11a | SISO | 5180 | 14.73 | <=30 | Pass |
| | | 5200 | 14.73 | <=30 | Pass |
| | | 5240 | 14.26 | <=30 | Pass |
| | | 5745 | 15.14 | <=30 | Pass |
| | | 5785 | 14.94 | <=30 | Pass |
| | | 5825 | 14.79 | <=30 | Pass |
| 802.11n (HT20) | SISO | 5180 | 15.25 | <=30 | Pass |
| | | 5200 | 15.35 | <=30 | Pass |
| | | 5240 | 15.03 | <=30 | Pass |
| | | 5745 | 13.91 | <=30 | Pass |
| | | 5785 | 13.74 | <=30 | Pass |
| | | 5825 | 13.54 | <=30 | Pass |
| 802.11n (HT40) | SISO | 5190 | 14.60 | <=30 | Pass |
| | | 5230 | 14.33 | <=30 | Pass |
| | | 5755 | 14.65 | <=30 | Pass |
| | | 5795 | 14.38 | <=30 | Pass |
| 802.11ac (VHT20) | SISO | 5180 | 14.11 | <=30 | Pass |
| | | 5200 | 14.06 | <=30 | Pass |
| | | 5240 | 13.52 | <=30 | Pass |
| | | 5745 | 14.59 | <=30 | Pass |
| | | 5785 | 14.47 | <=30 | Pass |
| | | 5825 | 14.33 | <=30 | Pass |
| 802.11ac (VHT40) | SISO | 5190 | 13.07 | <=30 | Pass |
| | | 5230 | 12.78 | <=30 | Pass |
| | | 5755 | 13.96 | <=30 | Pass |
| | | 5795 | 13.66 | <=30 | Pass |
| 802.11ac (VHT80) | SISO | 5210 | 13.01 | <=30 | Pass |
| | | 5775 | 13.63 | <=30 | Pass |

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5G transfer image
 For external antenna

| Mode | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) | | | | Verdict |
|-----------------|---------|-----------------|--|-------|-------|-------|---------|
| | | | ANT1 | ANT2 | MIMO | Limit | |
| QPSK 1.4MHz | MIMO | 5154 | 12.40 | 13.26 | 15.86 | <=30 | Pass |
| | | 5200 | 12.49 | 12.79 | 15.65 | <=30 | Pass |
| | | 5246 | 12.04 | 12.75 | 15.42 | <=30 | Pass |
| 16QAM 1.4MHz | MIMO | 5154 | 11.72 | 12.54 | 15.16 | <=30 | Pass |
| | | 5200 | 11.90 | 12.24 | 15.08 | <=30 | Pass |
| | | 5246 | 11.34 | 12.05 | 14.72 | <=30 | Pass |

| Mode | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) | | | | Verdict |
|----------------|---------|-----------------|--|-------|-------|-------|---------|
| | | | ANT1 | ANT2 | MIMO | Limit | |
| QPSK 10MHz | MIMO | 5157 | 12.42 | 13.32 | 15.90 | <=30 | Pass |
| | | 5200 | 12.59 | 12.84 | 15.73 | <=30 | Pass |
| | | 5243 | 12.37 | 13.12 | 15.77 | <=30 | Pass |
| 16QAM 10MHz | MIMO | 5157 | 12.04 | 12.96 | 15.53 | <=30 | Pass |
| | | 5200 | 12.44 | 13.02 | 15.75 | <=30 | Pass |
| | | 5243 | 12.12 | 12.96 | 15.57 | <=30 | Pass |

| Mode | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) | | | | Verdict |
|----------------|---------|-----------------|--|-------|-------|-------|---------|
| | | | ANT1 | ANT2 | MIMO | Limit | |
| QPSK 20MHz | MIMO | 5167 | 12.39 | 13.26 | 15.86 | <=30 | Pass |
| | | 5200 | 12.32 | 12.99 | 15.68 | <=30 | Pass |
| | | 5233 | 11.57 | 12.29 | 14.96 | <=30 | Pass |
| 16QAM 20MHz | MIMO | 5167 | 11.97 | 12.64 | 15.33 | <=30 | Pass |
| | | 5200 | 11.73 | 12.31 | 15.04 | <=30 | Pass |
| | | 5233 | 10.99 | 11.48 | 14.25 | <=30 | Pass |

| Mode | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) | | | | Verdict |
|-----------------|---------|-----------------|--|-------|-------|-------|---------|
| | | | ANT1 | ANT2 | MIMO | Limit | |
| QPSK 1.4MHz | MIMO | 5728 | 21.78 | 24.23 | 26.19 | <=30 | Pass |
| | | 5788 | 21.36 | 23.79 | 25.75 | <=30 | Pass |
| | | 5847 | 20.71 | 22.55 | 24.74 | <=30 | Pass |
| 16QAM 1.4MHz | MIMO | 5728 | 22.16 | 24.23 | 26.33 | <=30 | Pass |
| | | 5788 | 21.29 | 23.85 | 25.77 | <=30 | Pass |
| | | 5847 | 20.67 | 22.54 | 24.72 | <=30 | Pass |

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| Mode | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) | | | | Verdict |
|----------------|---------|-----------------|--|-------|-------|-------|---------|
| | | | ANT1 | ANT2 | MIMO | Limit | |
| QPSK 10MHz | MIMO | 5733 | 21.94 | 22.85 | 25.43 | <=30 | Pass |
| | | 5788 | 20.95 | 22.31 | 24.69 | <=30 | Pass |
| | | 5842 | 20.31 | 21.29 | 23.84 | <=30 | Pass |
| 16QAM 10MHz | MIMO | 5733 | 21.94 | 22.91 | 25.46 | <=30 | Pass |
| | | 5788 | 20.92 | 22.29 | 24.67 | <=30 | Pass |
| | | 5842 | 20.32 | 21.27 | 23.83 | <=30 | Pass |

| Mode | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) | | | | Verdict |
|----------------|---------|-----------------|--|-------|-------|-------|---------|
| | | | ANT1 | ANT2 | MIMO | Limit | |
| QPSK 20MHz | MIMO | 5738 | 22.26 | 23.22 | 25.78 | <=30 | Pass |
| | | 5789 | 21.33 | 22.58 | 25.01 | <=30 | Pass |
| | | 5839 | 20.61 | 21.50 | 24.09 | <=30 | Pass |
| 16QAM 20MHz | MIMO | 5738 | 22.24 | 23.17 | 25.74 | <=30 | Pass |
| | | 5789 | 21.34 | 22.54 | 24.99 | <=30 | Pass |
| | | 5839 | 20.66 | 21.57 | 24.15 | <=30 | Pass |

For PCB antenna

| Mode | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) | | | | Verdict |
|-----------------|---------|-----------------|--|-------|-------|-------|---------|
| | | | ANT1 | ANT2 | MIMO | Limit | |
| QPSK 1.4MHz | MIMO | 5154 | 12.30 | 13.16 | 15.76 | <=30 | Pass |
| | | 5200 | 12.25 | 12.55 | 15.41 | <=30 | Pass |
| | | 5246 | 11.93 | 12.64 | 15.31 | <=30 | Pass |
| 16QAM 1.4MHz | MIMO | 5154 | 11.46 | 12.28 | 14.90 | <=30 | Pass |
| | | 5200 | 11.71 | 12.05 | 14.89 | <=30 | Pass |
| | | 5246 | 11.09 | 11.80 | 14.47 | <=30 | Pass |

| Mode | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) | | | | Verdict |
|----------------|---------|-----------------|--|-------|-------|-------|---------|
| | | | ANT1 | ANT2 | MIMO | Limit | |
| QPSK 10MHz | MIMO | 5157 | 12.31 | 13.21 | 15.79 | <=30 | Pass |
| | | 5200 | 12.31 | 12.56 | 15.45 | <=30 | Pass |
| | | 5243 | 12.14 | 12.89 | 15.54 | <=30 | Pass |
| 16QAM 10MHz | MIMO | 5157 | 11.89 | 12.81 | 15.38 | <=30 | Pass |
| | | 5200 | 12.17 | 12.75 | 15.48 | <=30 | Pass |
| | | 5243 | 12.00 | 12.84 | 15.45 | <=30 | Pass |

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| Mode | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) | | | | Verdict |
|----------------|---------|-----------------|--|-------|-------|-------|---------|
| | | | ANT1 | ANT2 | MIMO | Limit | |
| QPSK 20MHz | MIMO | 5167 | 12.26 | 13.13 | 15.73 | <=30 | Pass |
| | | 5200 | 12.07 | 12.74 | 15.43 | <=30 | Pass |
| | | 5233 | 11.40 | 12.12 | 14.79 | <=30 | Pass |
| 16QAM 20MHz | MIMO | 5167 | 11.75 | 12.42 | 15.11 | <=30 | Pass |
| | | 5200 | 11.52 | 12.10 | 14.83 | <=30 | Pass |
| | | 5233 | 10.85 | 11.34 | 14.11 | <=30 | Pass |

| Mode | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) | | | | Verdict |
|-----------------|---------|-----------------|--|-------|-------|-------|---------|
| | | | ANT1 | ANT2 | MIMO | Limit | |
| QPSK 1.4MHz | MIMO | 5728 | 20.45 | 22.90 | 24.86 | <=30 | Pass |
| | | 5788 | 20.02 | 22.45 | 24.41 | <=30 | Pass |
| | | 5847 | 19.42 | 21.26 | 23.45 | <=30 | Pass |
| 16QAM 1.4MHz | MIMO | 5728 | 20.83 | 22.90 | 25.00 | <=30 | Pass |
| | | 5788 | 19.92 | 22.48 | 24.40 | <=30 | Pass |
| | | 5847 | 19.36 | 21.23 | 23.41 | <=30 | Pass |

| Mode | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) | | | | Verdict |
|----------------|---------|-----------------|--|-------|-------|-------|---------|
| | | | ANT1 | ANT2 | MIMO | Limit | |
| QPSK 10MHz | MIMO | 5733 | 21.66 | 22.57 | 25.15 | <=30 | Pass |
| | | 5788 | 20.62 | 21.98 | 24.36 | <=30 | Pass |
| | | 5842 | 20.03 | 21.01 | 23.56 | <=30 | Pass |
| 16QAM 10MHz | MIMO | 5733 | 21.67 | 22.64 | 25.19 | <=30 | Pass |
| | | 5788 | 20.60 | 21.97 | 24.35 | <=30 | Pass |
| | | 5842 | 20.08 | 21.03 | 23.59 | <=30 | Pass |

| Mode | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) | | | | Verdict |
|----------------|---------|-----------------|--|-------|-------|-------|---------|
| | | | ANT1 | ANT2 | MIMO | Limit | |
| QPSK 20MHz | MIMO | 5738 | 21.67 | 22.63 | 25.19 | <=30 | Pass |
| | | 5789 | 20.66 | 21.91 | 24.34 | <=30 | Pass |
| | | 5839 | 19.93 | 20.82 | 23.41 | <=30 | Pass |
| 16QAM 20MHz | MIMO | 5738 | 21.55 | 22.48 | 25.05 | <=30 | Pass |
| | | 5789 | 20.68 | 21.88 | 24.33 | <=30 | Pass |
| | | 5839 | 20.15 | 21.02 | 23.60 | <=30 | Pass |

Note1: All transmit signals are completely uncorrelated

Note2: External Antenna Gain: Ant1: 5dBi; Ant2: 5dBi; Directional Gain = 5 dBi

Note3: PCB Antenna Gain: Ant1: 3.1dBi; Ant2: 3.1dBi; Directional Gain = 3.1 dBi

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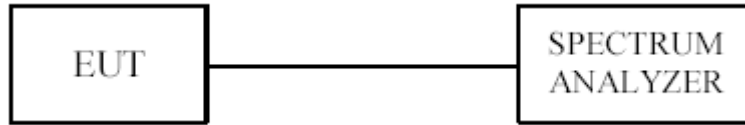
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9. Power Spectral Density Measurement

9.1 Test Setup



9.2 Limits of Power Spectral Density Measurement

| Operation Band | EUT Category | | Limit |
|----------------|--------------|-----------------------------------|--------------|
| U-NII-1 | √ | Outdoor Access Point | 17dBm/MHz |
| | | Fixed point-to-point Access Point | |
| | | Indoor Access Point | |
| | | Mobile and Portable client device | 11dBm/MHz |
| U-NII-2A | -- | | 11dBm/MHz |
| U-NII-2C | -- | | 11dBm/MHz |
| U-NII-3 | -- | | 30dBm/500kHz |

9.3 Test Procedure

1. The EUT was directly connected to the spectrum analyzer
2. Set the RBW = 1MHz for U-NII-1band, RBW = 300kHz for U-NII-3band
3. Set the VBW = 3MHz for U-NII-1band, RBW = 1MHz for U-NII-3band
4. Set the span to encompass the entire emissions bandwidth (EBW) of the signal
5. Detector = RMS
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.

Note: For UNII-3, according to KDB publication 789033 D02 General UNII Test Procedures New Rules v02r01, section II.F.5., it is acceptable to set RBW at 300kHz and VBW at 1500kHz if the spectrum analyzer does not have 500 kHz RBW. Then, add $10 \log (500 \text{ kHz}/300 \text{ kHz})$ to the measured result, i.e. 2.22 dB.

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9.4 Test Result

5G wifi

| Mode | TX Type | Frequency (MHz) | Maximum PSD (dBm/MHz) | | Verdict |
|------------------|---------|-----------------|-----------------------|-------|---------|
| | | | ANT1 | Limit | |
| 802.11a | SISO | 5180 | 2.39 | <=17 | Pass |
| | | 5200 | 2.73 | <=17 | Pass |
| | | 5240 | 4.94 | <=17 | Pass |
| 802.11n (HT20) | SISO | 5180 | 1.25 | <=17 | Pass |
| | | 5200 | 6.28 | <=17 | Pass |
| | | 5240 | 5.39 | <=17 | Pass |
| 802.11n (HT40) | SISO | 5190 | 2.60 | <=17 | Pass |
| | | 5230 | 1.67 | <=17 | Pass |
| 802.11ac (VHT20) | SISO | 5180 | 4.59 | <=17 | Pass |
| | | 5200 | 4.39 | <=17 | Pass |
| | | 5240 | 3.85 | <=17 | Pass |
| 802.11ac (VHT40) | SISO | 5190 | 0.54 | <=17 | Pass |
| | | 5230 | 0.27 | <=17 | Pass |
| 802.11ac (VHT80) | SISO | 5210 | -1.86 | <=17 | Pass |

| Mode | TX Type | Frequency (MHz) | Maximum PSD (dBm/500kHz) | | Verdict |
|------------------|---------|-----------------|--------------------------|-------|---------|
| | | | ANT1 | Limit | |
| 802.11a | SISO | 5745 | 3.61 | <=30 | Pass |
| | | 5785 | -0.35 | <=30 | Pass |
| | | 5825 | 3.91 | <=30 | Pass |
| 802.11n (HT20) | SISO | 5745 | 4.65 | <=30 | Pass |
| | | 5785 | 2.16 | <=30 | Pass |
| | | 5825 | 2.37 | <=30 | Pass |
| 802.11n (HT40) | SISO | 5755 | -0.53 | <=30 | Pass |
| | | 5795 | -0.63 | <=30 | Pass |
| 802.11ac (VHT20) | SISO | 5745 | 2.68 | <=30 | Pass |
| | | 5785 | 2.49 | <=30 | Pass |
| | | 5825 | 2.40 | <=30 | Pass |
| 802.11ac (VHT40) | SISO | 5755 | -0.97 | <=30 | Pass |
| | | 5795 | -1.15 | <=30 | Pass |
| 802.11ac (VHT80) | SISO | 5775 | -6.16 | <=30 | Pass |

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5G transfer image

For external antenna

| Mode | TX Type | Frequency (MHz) | Maximum PSD (dBm/MHz) | | | | Verdict |
|-----------------|---------|-----------------|-----------------------|-------|-------|-------|---------|
| | | | ANT1 | ANT2 | MIMO | Limit | |
| QPSK 1.4MHz | MIMO | 5154 | 13.53 | 14.37 | 16.97 | <=17 | Pass |
| | | 5200 | 13.66 | 13.99 | 16.74 | <=17 | Pass |
| | | 5246 | 13.14 | 13.93 | 16.56 | <=17 | Pass |
| 16QAM 1.4MHz | MIMO | 5154 | 12.91 | 13.82 | 16.33 | <=17 | Pass |
| | | 5200 | 13.07 | 13.32 | 16.13 | <=17 | Pass |
| | | 5246 | 12.62 | 13.27 | 15.87 | <=17 | Pass |

| Mode | TX Type | Frequency (MHz) | Maximum PSD (dBm/MHz) | | | | Verdict |
|----------------|---------|-----------------|-----------------------|------|------|-------|---------|
| | | | ANT1 | ANT2 | MIMO | Limit | |
| QPSK 10MHz | MIMO | 5157 | 3.95 | 5.03 | 7.44 | <=17 | Pass |
| | | 5200 | 4.13 | 4.30 | 7.22 | <=17 | Pass |
| | | 5243 | 3.95 | 4.74 | 7.28 | <=17 | Pass |
| 16QAM 10MHz | MIMO | 5157 | 3.53 | 4.63 | 7.02 | <=17 | Pass |
| | | 5200 | 3.91 | 4.59 | 7.27 | <=17 | Pass |
| | | 5243 | 3.65 | 4.51 | 7.05 | <=17 | Pass |

| Mode | TX Type | Frequency (MHz) | Maximum PSD (dBm/MHz) | | | | Verdict |
|----------------|---------|-----------------|-----------------------|-------|------|-------|---------|
| | | | ANT1 | ANT2 | MIMO | Limit | |
| QPSK 20MHz | MIMO | 5167 | 0.62 | 1.70 | 4.09 | <=17 | Pass |
| | | 5200 | 0.75 | 1.47 | 4.00 | <=17 | Pass |
| | | 5233 | -0.09 | 0.61 | 3.20 | <=17 | Pass |
| 16QAM 20MHz | MIMO | 5167 | 0.27 | 1.02 | 3.63 | <=17 | Pass |
| | | 5200 | 0.16 | 0.83 | 3.32 | <=17 | Pass |
| | | 5233 | -0.69 | -0.18 | 2.39 | <=17 | Pass |

| Mode | TX Type | Frequency (MHz) | Maximum PSD (dBm/500kHz) | | | | Verdict |
|-----------------|---------|-----------------|--------------------------|-------|-------|-------|---------|
| | | | ANT1 | ANT2 | MIMO | Limit | |
| QPSK 1.4MHz | MIMO | 5728 | 21.10 | 23.64 | 25.49 | <=30 | Pass |
| | | 5788 | 20.63 | 23.06 | 24.95 | <=30 | Pass |
| | | 5847 | 20.13 | 22.13 | 23.98 | <=30 | Pass |
| 16QAM 1.4MHz | MIMO | 5728 | 21.42 | 23.51 | 25.51 | <=30 | Pass |
| | | 5788 | 20.51 | 23.20 | 24.97 | <=30 | Pass |
| | | 5847 | 20.09 | 21.87 | 24.01 | <=30 | Pass |

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| Mode | TX Type | Frequency (MHz) | Maximum PSD (dBm/500kHz) | | | | Verdict |
|----------------|---------|-----------------|--------------------------|-------|-------|-------|---------|
| | | | ANT1 | ANT2 | MIMO | Limit | |
| QPSK 10MHz | MIMO | 5733 | 10.86 | 11.76 | 14.22 | <=30 | Pass |
| | | 5788 | 9.85 | 11.51 | 13.69 | <=30 | Pass |
| | | 5842 | 9.14 | 10.06 | 12.63 | <=30 | Pass |
| 16QAM 10MHz | MIMO | 5733 | 10.66 | 11.81 | 14.08 | <=30 | Pass |
| | | 5788 | 9.78 | 11.13 | 13.41 | <=30 | Pass |
| | | 5842 | 9.20 | 10.03 | 12.58 | <=30 | Pass |

| Mode | TX Type | Frequency (MHz) | Maximum PSD (dBm/500kHz) | | | | Verdict |
|----------------|---------|-----------------|--------------------------|------|-------|-------|---------|
| | | | ANT1 | ANT2 | MIMO | Limit | |
| QPSK 20MHz | MIMO | 5738 | 7.90 | 8.82 | 11.31 | <=30 | Pass |
| | | 5789 | 6.96 | 8.38 | 10.59 | <=30 | Pass |
| | | 5839 | 6.32 | 7.23 | 9.65 | <=30 | Pass |
| 16QAM 20MHz | MIMO | 5738 | 8.01 | 8.80 | 11.23 | <=30 | Pass |
| | | 5789 | 7.17 | 8.20 | 10.65 | <=30 | Pass |
| | | 5839 | 6.27 | 7.58 | 9.83 | <=30 | Pass |

For PCB antenna

| Mode | TX Type | Frequency (MHz) | Maximum PSD (dBm/MHz) | | | | Verdict |
|-----------------|---------|-----------------|-----------------------|-------|-------|-------|---------|
| | | | ANT1 | ANT2 | MIMO | Limit | |
| QPSK 1.4MHz | MIMO | 5154 | 12.99 | 13.83 | 16.43 | <=17 | Pass |
| | | 5200 | 13.12 | 13.45 | 16.20 | <=17 | Pass |
| | | 5246 | 12.60 | 13.39 | 16.02 | <=17 | Pass |
| 16QAM 1.4MHz | MIMO | 5154 | 12.37 | 13.28 | 15.79 | <=17 | Pass |
| | | 5200 | 12.53 | 12.78 | 15.59 | <=17 | Pass |
| | | 5246 | 12.08 | 12.73 | 15.33 | <=17 | Pass |

| Mode | TX Type | Frequency (MHz) | Maximum PSD (dBm/MHz) | | | | Verdict |
|----------------|---------|-----------------|-----------------------|------|------|-------|---------|
| | | | ANT1 | ANT2 | MIMO | Limit | |
| QPSK 10MHz | MIMO | 5157 | 3.45 | 4.53 | 6.94 | <=17 | Pass |
| | | 5200 | 3.63 | 3.80 | 6.72 | <=17 | Pass |
| | | 5243 | 3.45 | 4.24 | 6.78 | <=17 | Pass |
| 16QAM 10MHz | MIMO | 5157 | 3.03 | 4.13 | 6.52 | <=17 | Pass |
| | | 5200 | 3.41 | 4.09 | 6.77 | <=17 | Pass |
| | | 5243 | 3.15 | 4.01 | 6.55 | <=17 | Pass |

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| Mode | TX Type | Frequency (MHz) | Maximum PSD (dBm/MHz) | | | | Verdict |
|----------------|---------|-----------------|-----------------------|-------|------|-------|---------|
| | | | ANT1 | ANT2 | MIMO | Limit | |
| QPSK 20MHz | MIMO | 5167 | 0.08 | 1.16 | 3.55 | <=17 | Pass |
| | | 5200 | 0.21 | 0.93 | 3.46 | <=17 | Pass |
| | | 5233 | -0.63 | 0.07 | 2.66 | <=17 | Pass |
| 16QAM 20MHz | MIMO | 5167 | -0.27 | 0.48 | 3.09 | <=17 | Pass |
| | | 5200 | -0.38 | 0.29 | 2.78 | <=17 | Pass |
| | | 5233 | -1.23 | -0.72 | 1.85 | <=17 | Pass |

| Mode | TX Type | Frequency (MHz) | Maximum PSD (dBm/500kHz) | | | | Verdict |
|-----------------|---------|-----------------|--------------------------|-------|-------|-------|---------|
| | | | ANT1 | ANT2 | MIMO | Limit | |
| QPSK 1.4MHz | MIMO | 5728 | 19.80 | 22.34 | 24.19 | <=30 | Pass |
| | | 5788 | 19.33 | 21.76 | 23.65 | <=30 | Pass |
| | | 5847 | 18.83 | 20.83 | 22.68 | <=30 | Pass |
| 16QAM 1.4MHz | MIMO | 5728 | 20.12 | 22.21 | 24.21 | <=30 | Pass |
| | | 5788 | 19.21 | 21.90 | 23.67 | <=30 | Pass |
| | | 5847 | 18.79 | 20.57 | 22.71 | <=30 | Pass |

| Mode | TX Type | Frequency (MHz) | Maximum PSD (dBm/500kHz) | | | | Verdict |
|----------------|---------|-----------------|--------------------------|-------|-------|-------|---------|
| | | | ANT1 | ANT2 | MIMO | Limit | |
| QPSK 10MHz | MIMO | 5733 | 10.56 | 11.46 | 13.92 | <=30 | Pass |
| | | 5788 | 9.55 | 11.21 | 13.39 | <=30 | Pass |
| | | 5842 | 8.84 | 9.76 | 12.33 | <=30 | Pass |
| 16QAM 10MHz | MIMO | 5733 | 10.36 | 11.51 | 13.78 | <=30 | Pass |
| | | 5788 | 9.48 | 10.83 | 13.11 | <=30 | Pass |
| | | 5842 | 8.90 | 9.73 | 12.28 | <=30 | Pass |

| Mode | TX Type | Frequency (MHz) | Maximum PSD (dBm/500kHz) | | | | Verdict |
|----------------|---------|-----------------|--------------------------|------|-------|-------|---------|
| | | | ANT1 | ANT2 | MIMO | Limit | |
| QPSK 20MHz | MIMO | 5738 | 7.20 | 8.12 | 10.61 | <=30 | Pass |
| | | 5789 | 6.26 | 7.68 | 9.89 | <=30 | Pass |
| | | 5839 | 5.62 | 6.53 | 8.95 | <=30 | Pass |
| 16QAM 20MHz | MIMO | 5738 | 7.31 | 8.10 | 10.53 | <=30 | Pass |
| | | 5789 | 6.47 | 7.50 | 9.95 | <=30 | Pass |
| | | 5839 | 5.57 | 6.88 | 9.13 | <=30 | Pass |

Note1: All transmit signals are completely uncorrelated

Note2: External Antenna Gain: Ant1: 5dBi; Ant2: 5dBi; Directional Gain = 5 dBi

Note3: PCB Antenna Gain: Ant1: 3.1dBi; Ant2: 3.1dBi; Directional Gain = 3.1 dBi

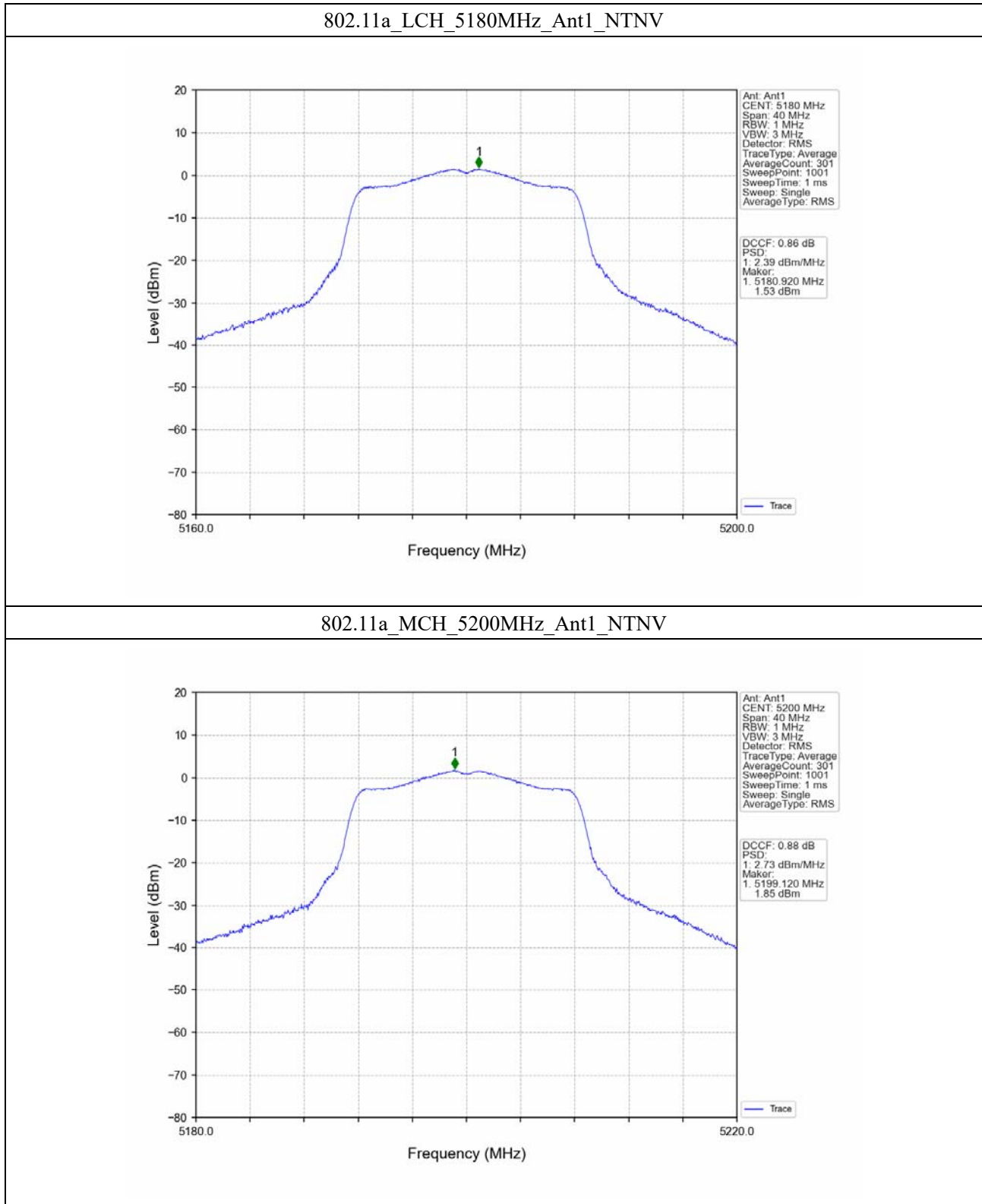
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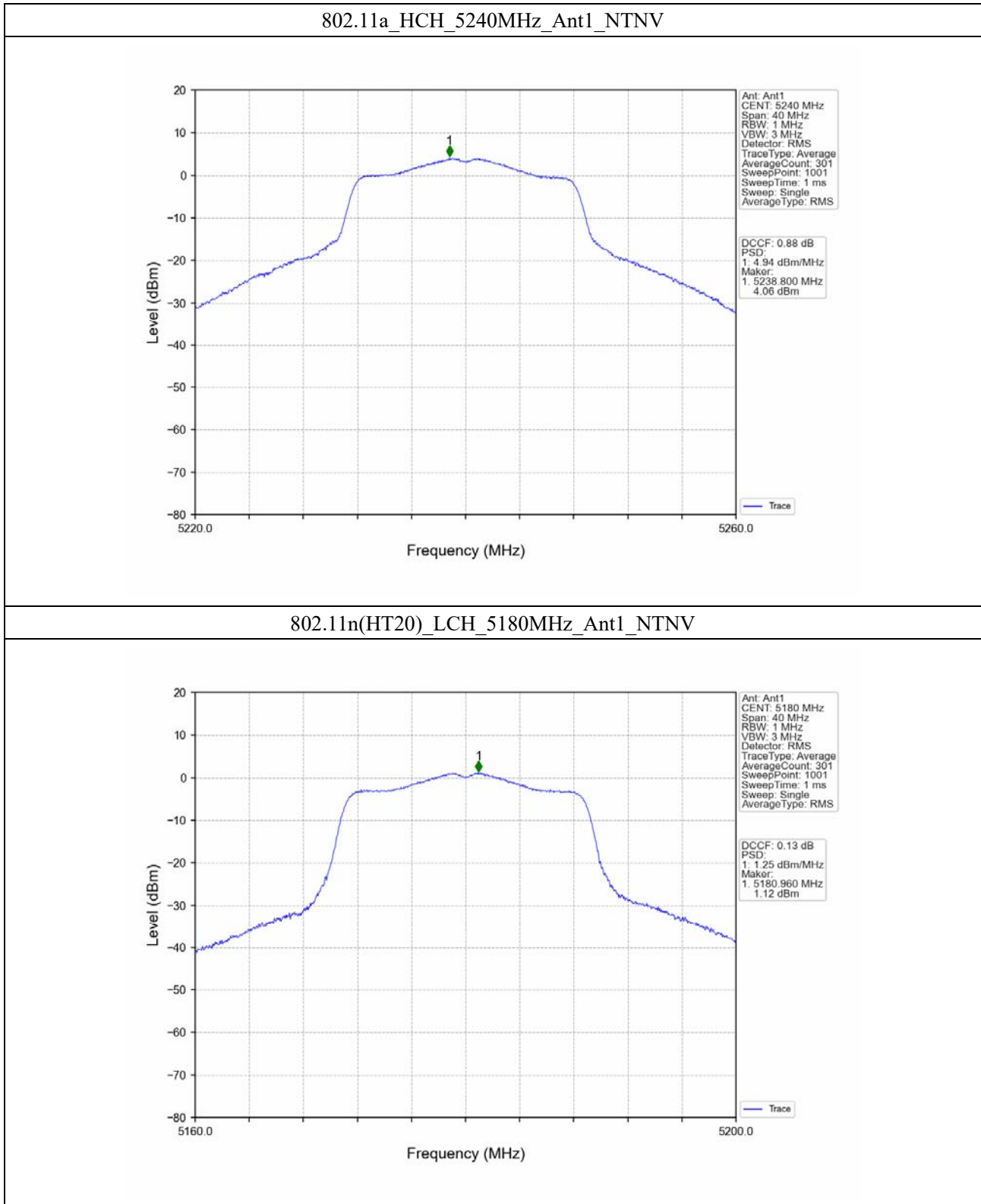
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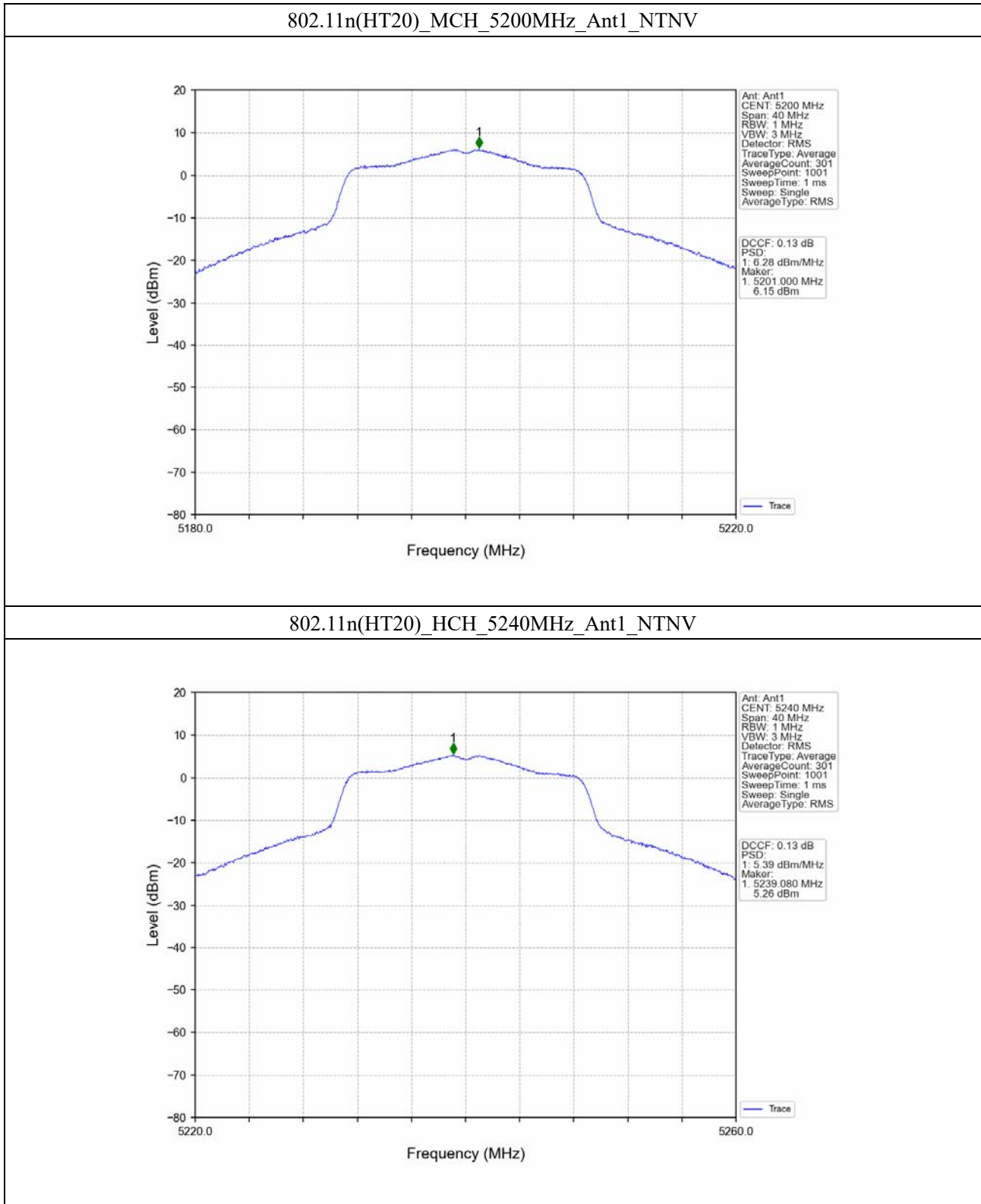
5G wifi



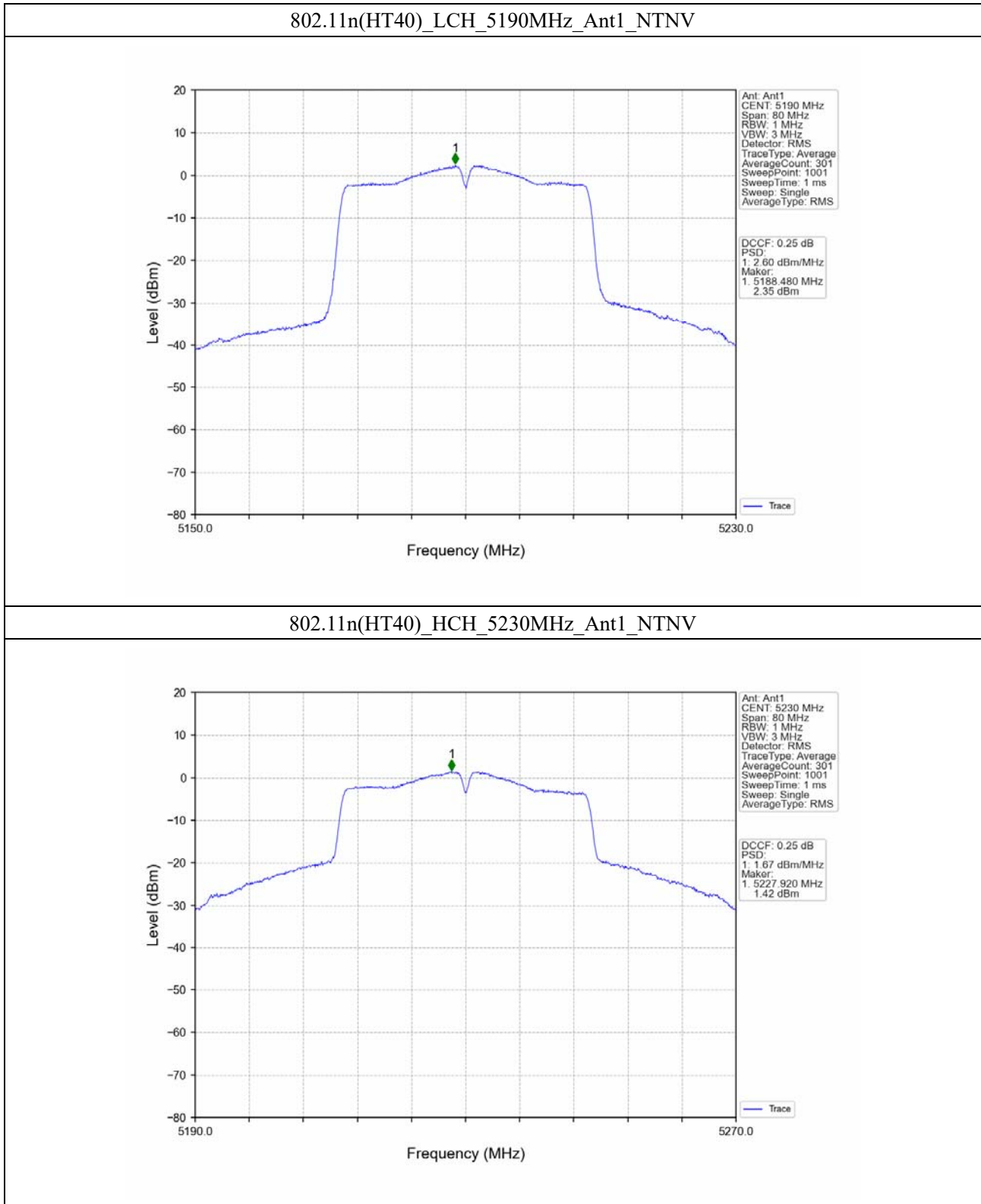
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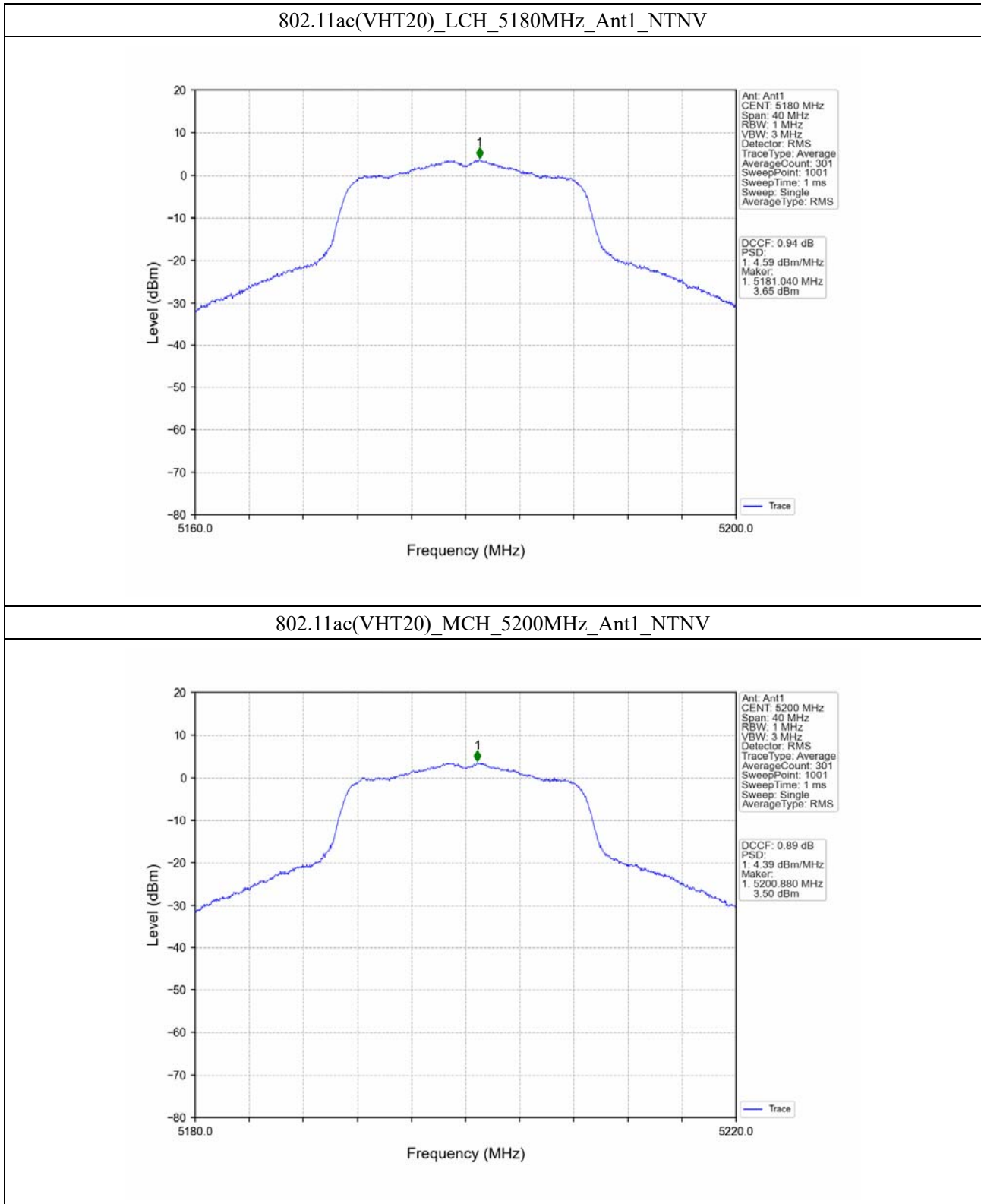
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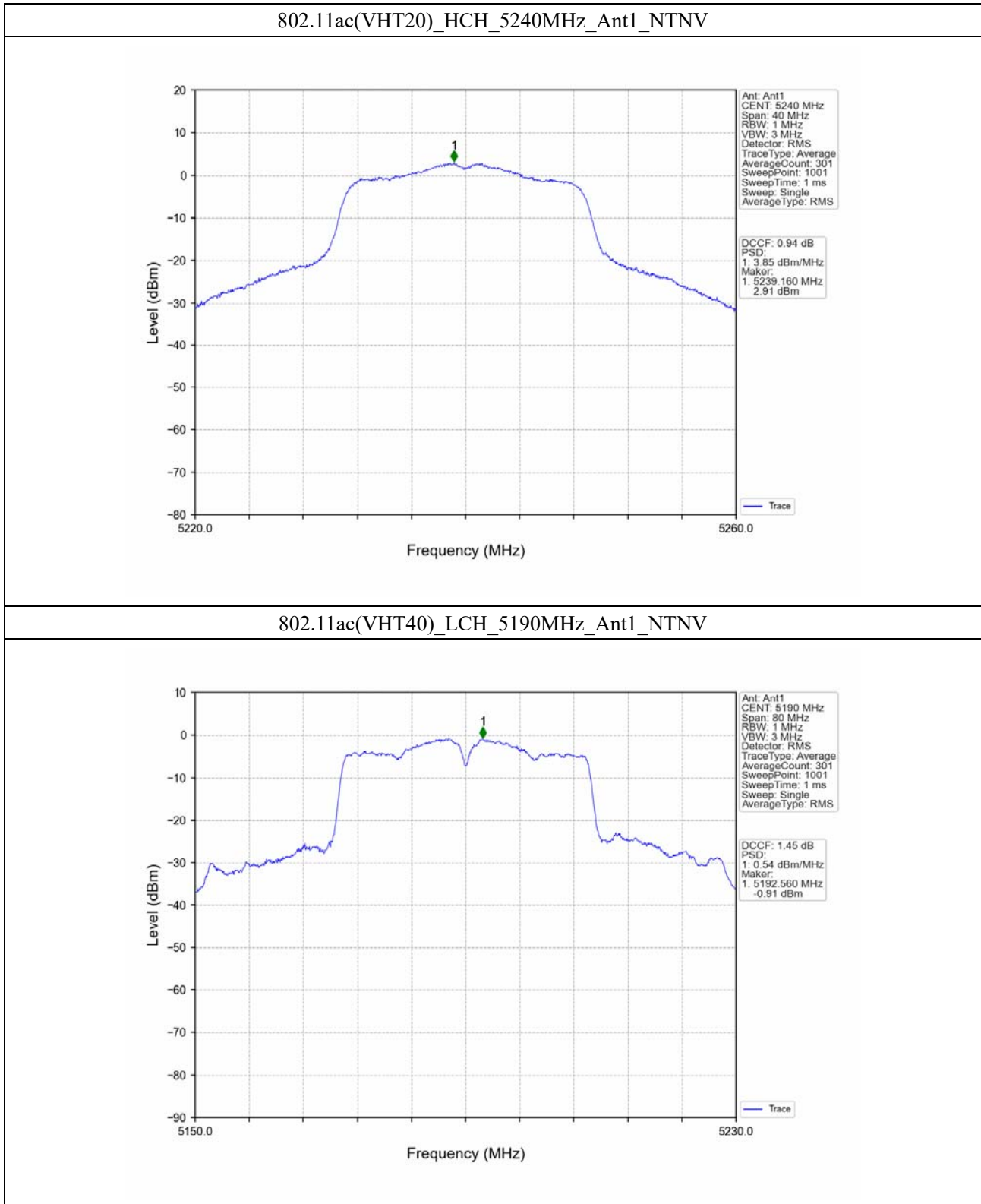
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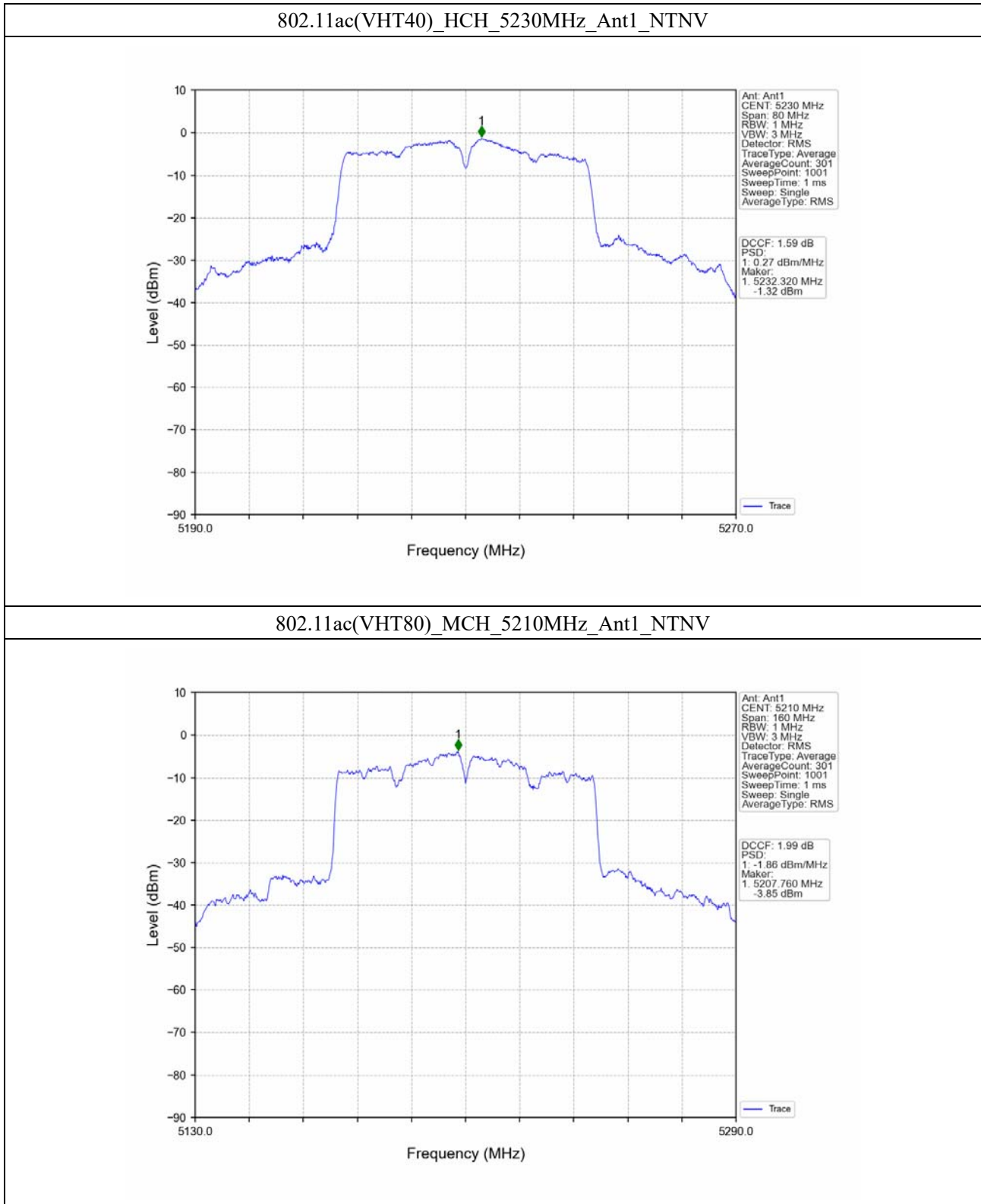
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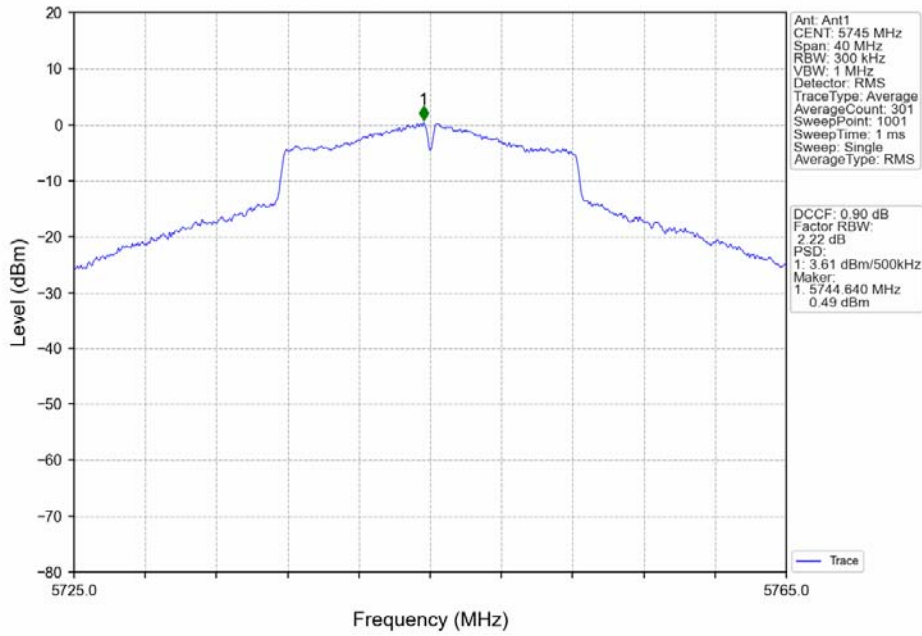
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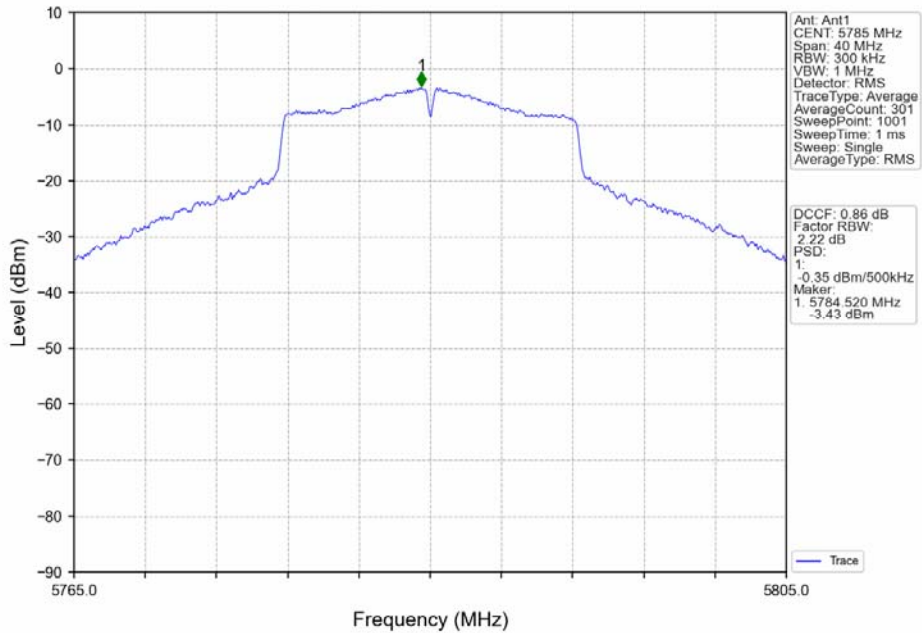
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802.11a_LCH_5745MHz_Ant1_NTNV



802.11a_MCH_5785MHz_Ant1_NTNV



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