

Appendix C or KSCR211200288003

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 (%) |
| 802.11b | SISO | 2412 | 12.413 | 12.710 | 97.66 | 0.10 | 0.00 |
| | | 2437 | 12.414 | 12.710 | 97.67 | 0.10 | 0.00 |
| | | 2462 | 12.413 | 12.710 | 97.66 | 0.10 | 0.00 |
| 802.11g | SISO | 2412 | 2.064 | 2.367 | 87.20 | 0.59 | 0.03 |
| | | 2437 | 2.064 | 2.367 | 87.20 | 0.59 | 0.03 |
| | | 2462 | 2.063 | 2.366 | 87.19 | 0.60 | 0.03 |
| 802.11n (HT20) | SISO | 2412 | 1.919 | 2.222 | 86.36 | 0.64 | 0.04 |
| | | 2437 | 1.919 | 2.222 | 86.36 | 0.64 | 0.04 |
| | | 2462 | 1.919 | 2.223 | 86.32 | 0.64 | 0.04 |
| 802.11n (HT40) | SISO | 2422 | 0.944 | 1.246 | 75.76 | 1.21 | 0.01 |
| | | 2437 | 0.944 | 1.247 | 75.70 | 1.21 | 0.03 |
| | | 2452 | 0.943 | 1.247 | 75.62 | 1.21 | 0.03 |

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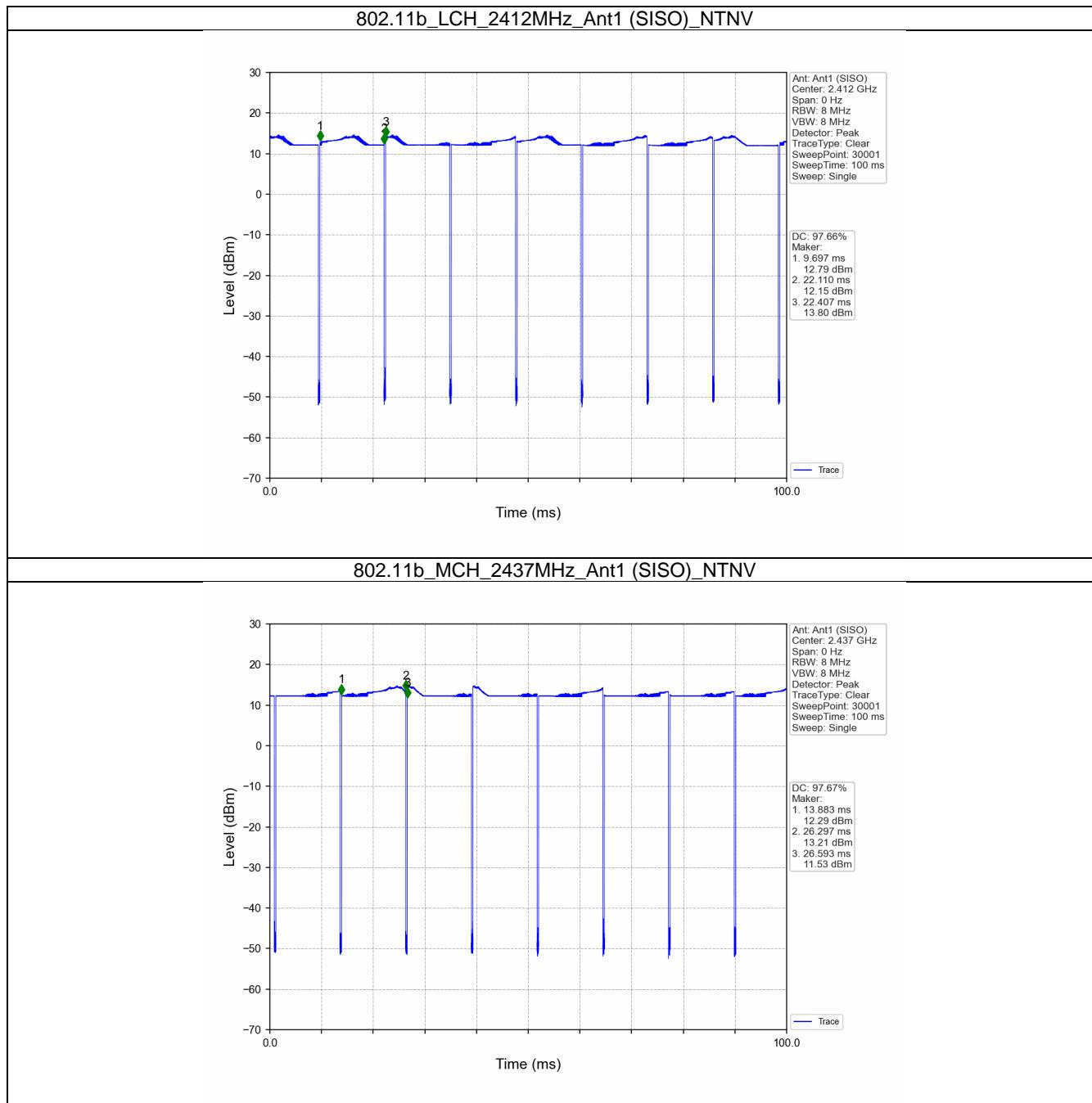


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1.1.2 Test Graph

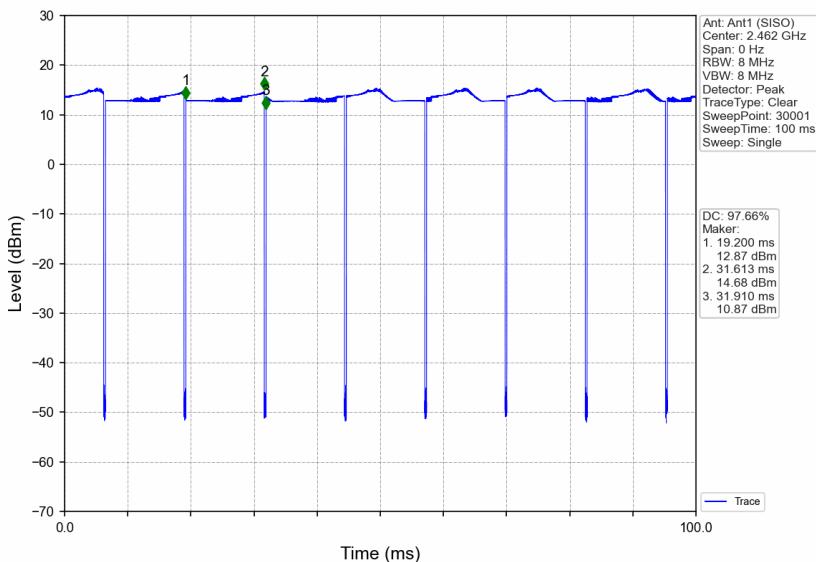


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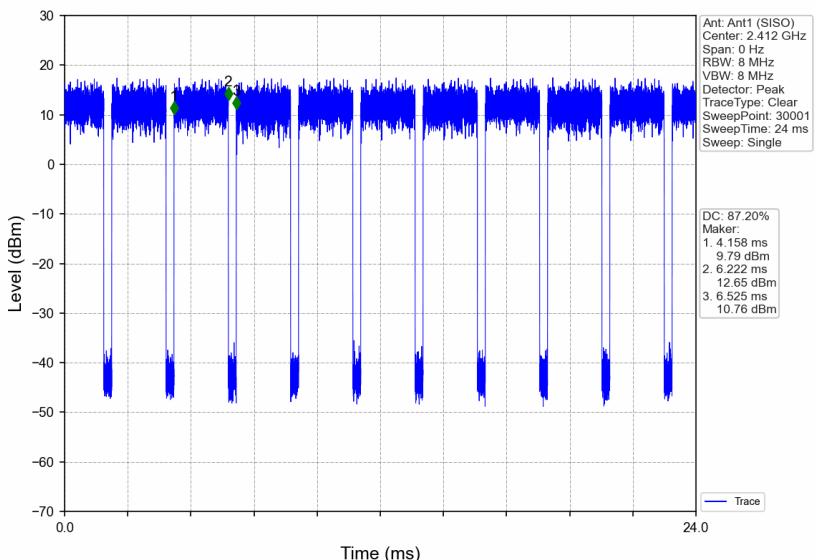
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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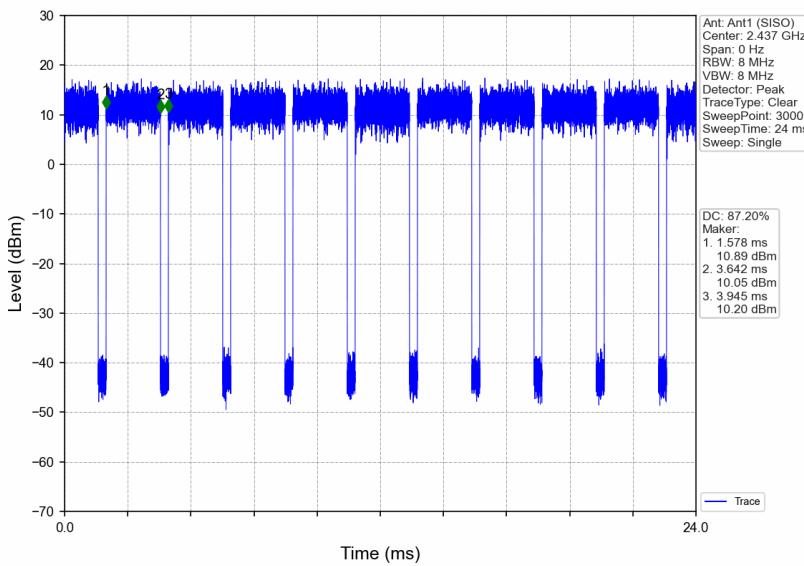
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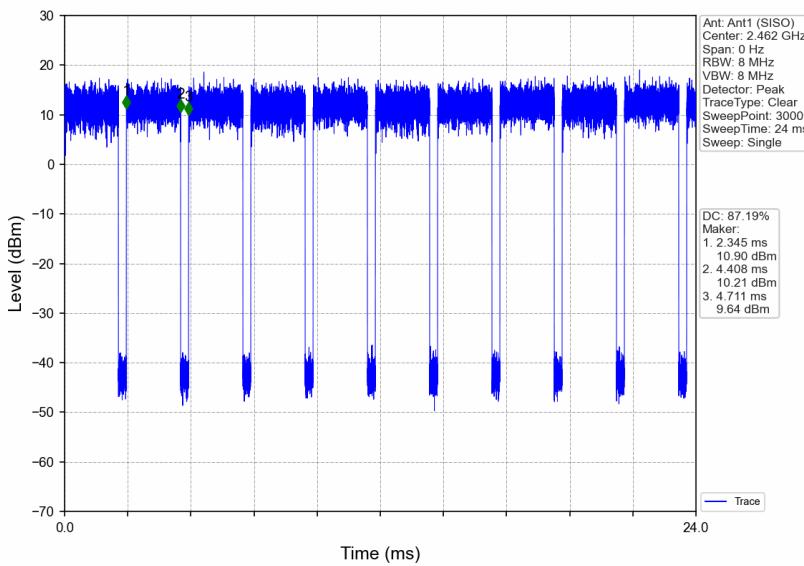
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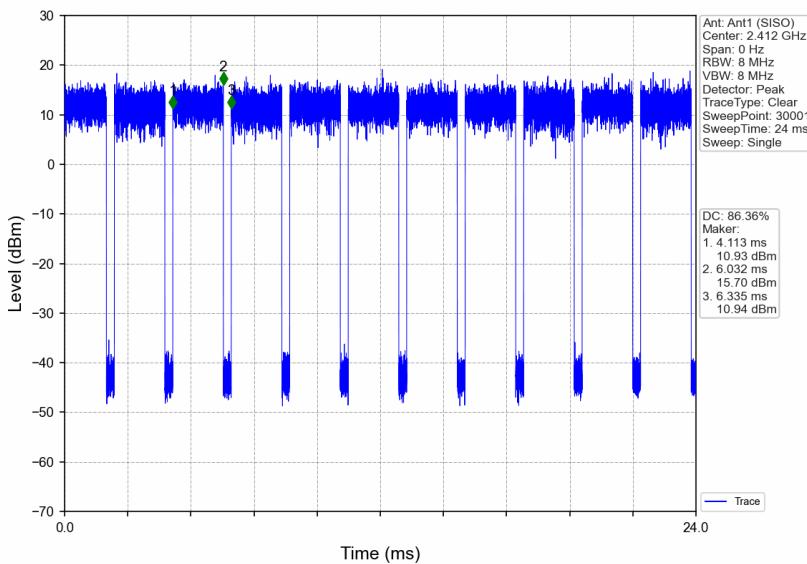


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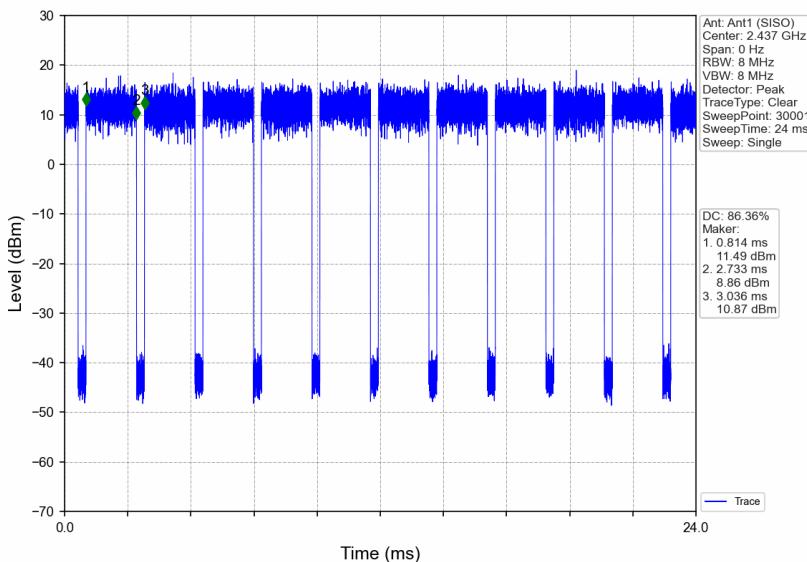
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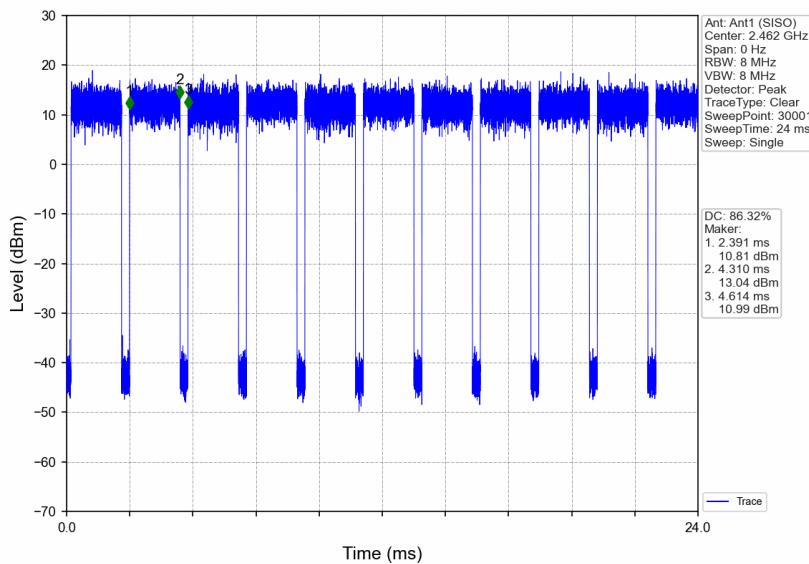


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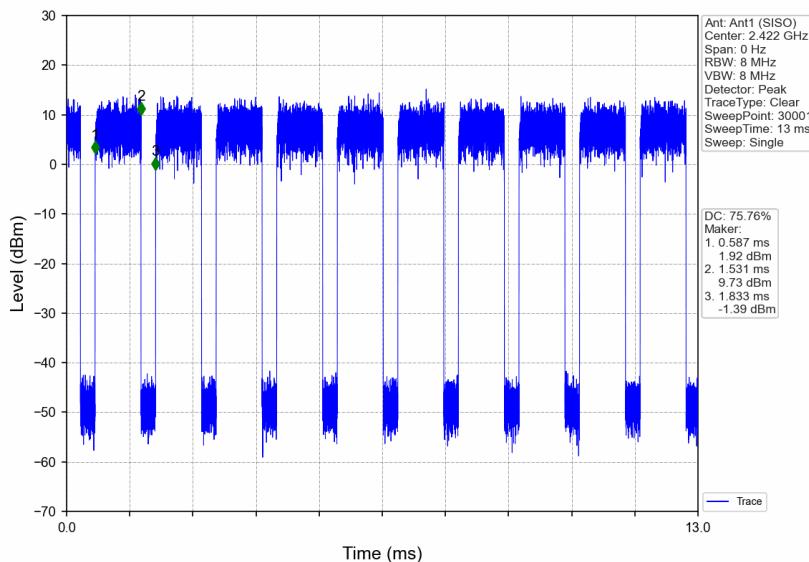
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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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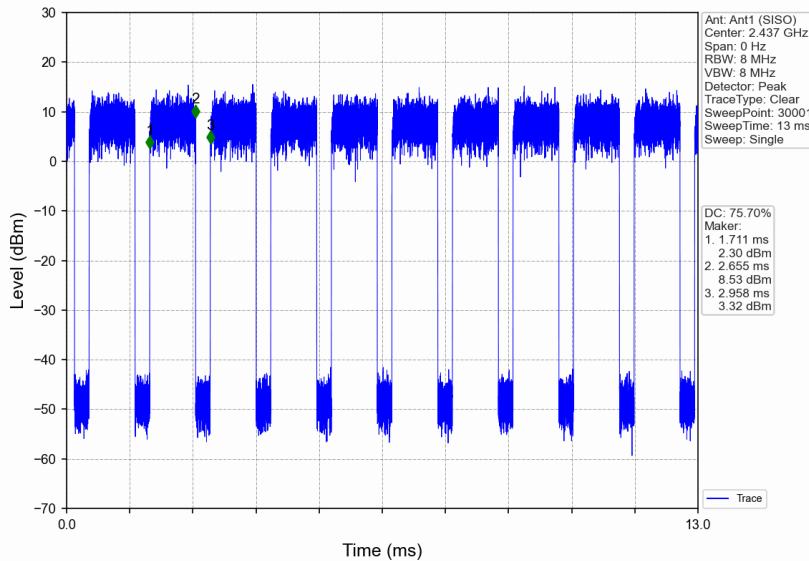


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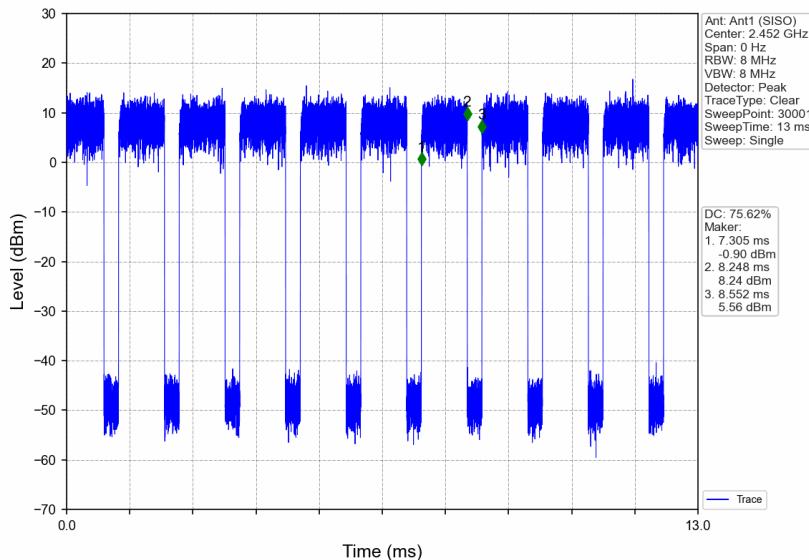
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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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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 | |
| 802.11b | SISO | 2412 | 1 | 11.286 | Pass |
| | | 2437 | 1 | 11.313 | Pass |
| | | 2462 | 1 | 11.434 | Pass |
| 802.11g | SISO | 2412 | 1 | 17.662 | Pass |
| | | 2437 | 1 | 17.887 | Pass |
| | | 2462 | 1 | 17.552 | Pass |
| 802.11n (HT20) | SISO | 2412 | 1 | 18.546 | Pass |
| | | 2437 | 1 | 18.796 | Pass |
| | | 2462 | 1 | 18.459 | Pass |
| 802.11n (HT40) | SISO | 2422 | 1 | 36.723 | Pass |
| | | 2437 | 1 | 36.699 | Pass |
| | | 2452 | 1 | 36.632 | Pass |

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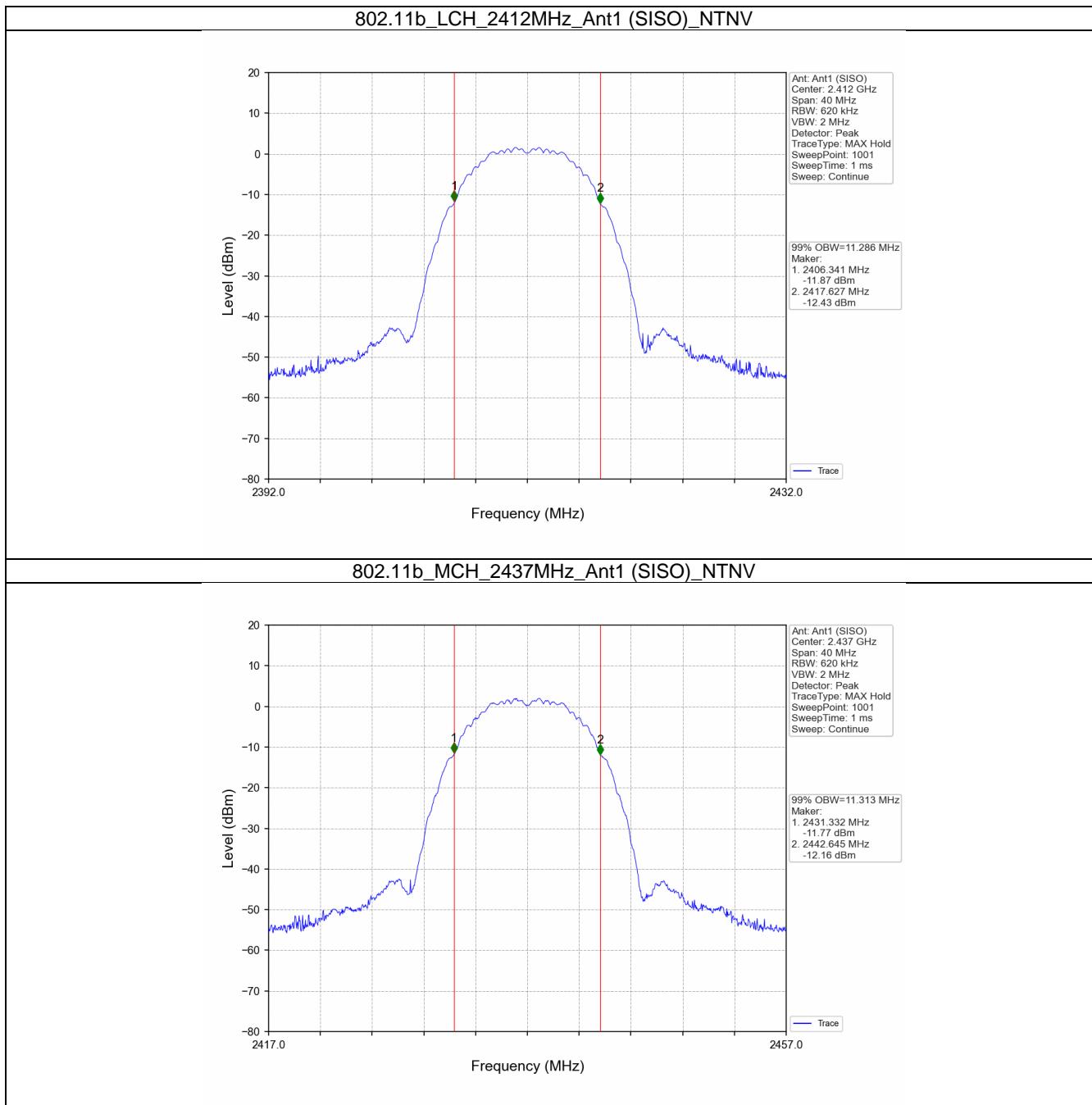


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2.1.2 Test Graph

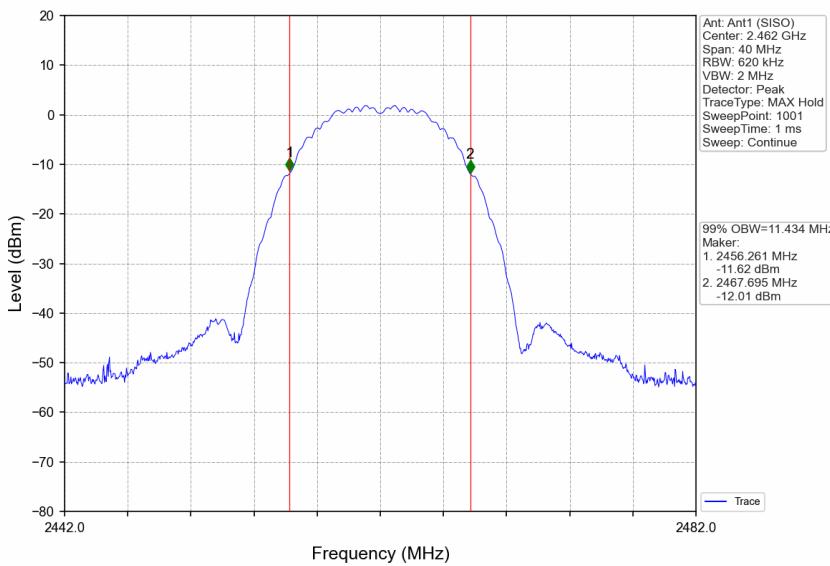


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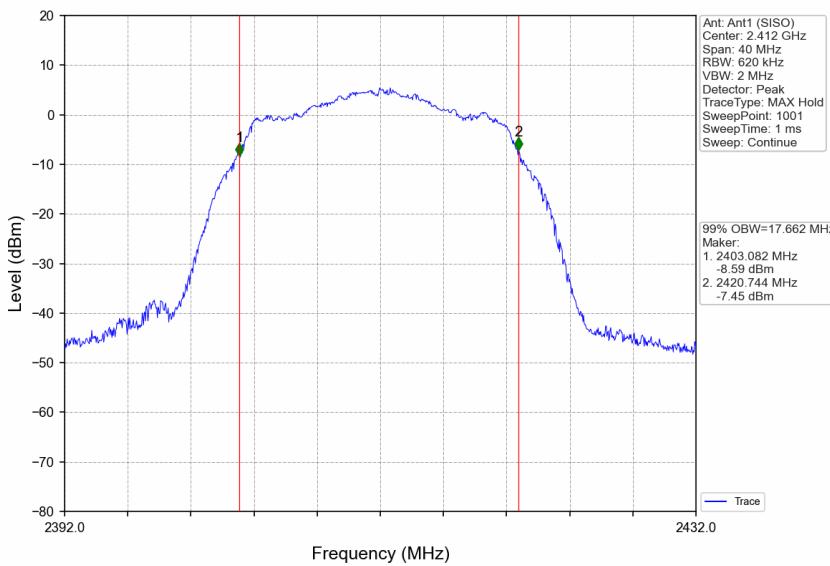
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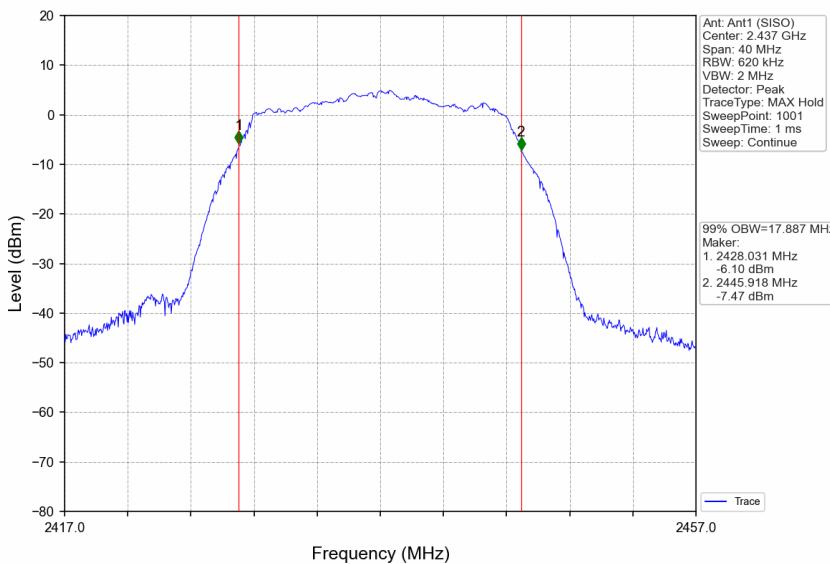
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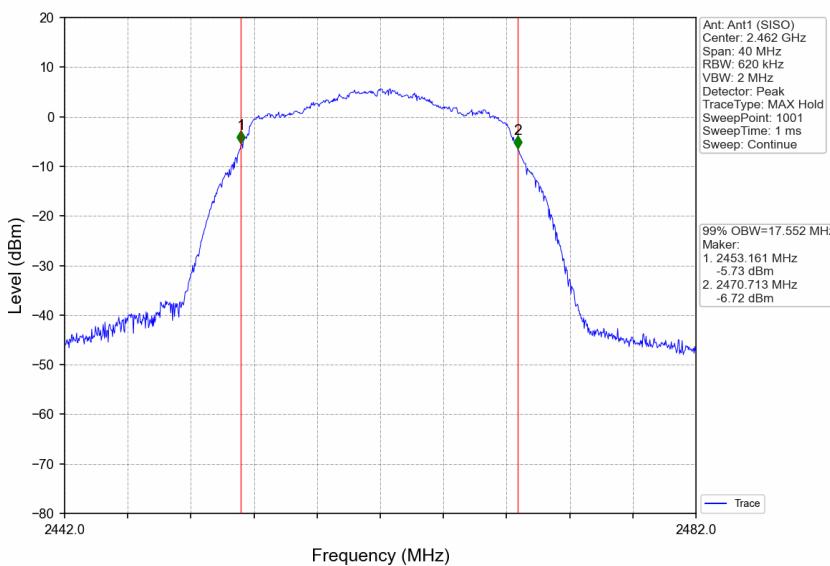
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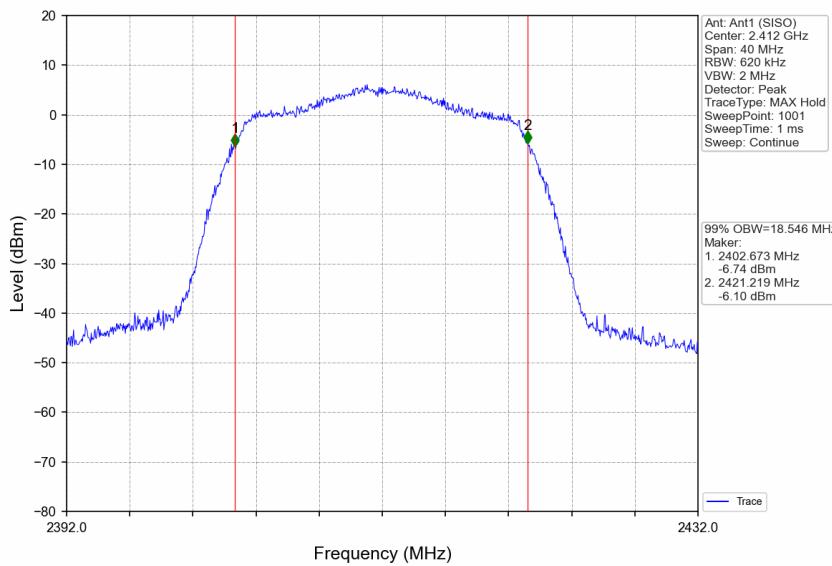


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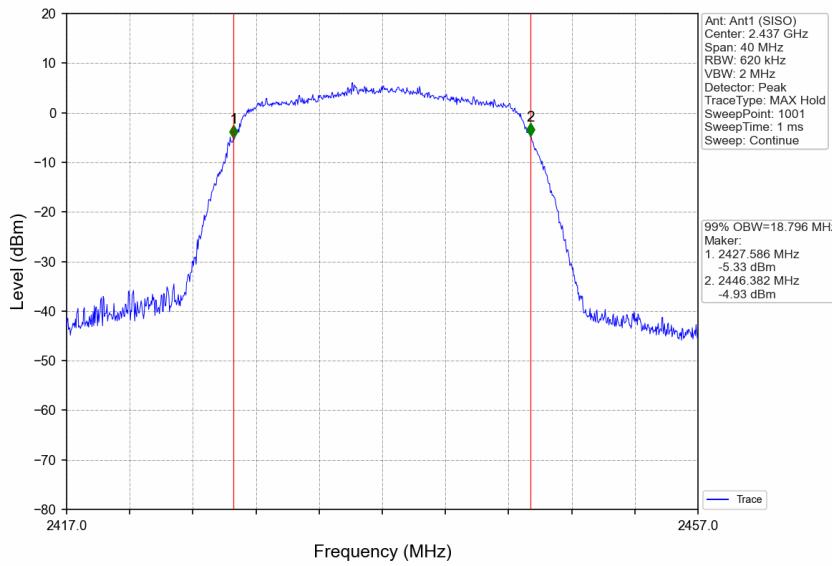
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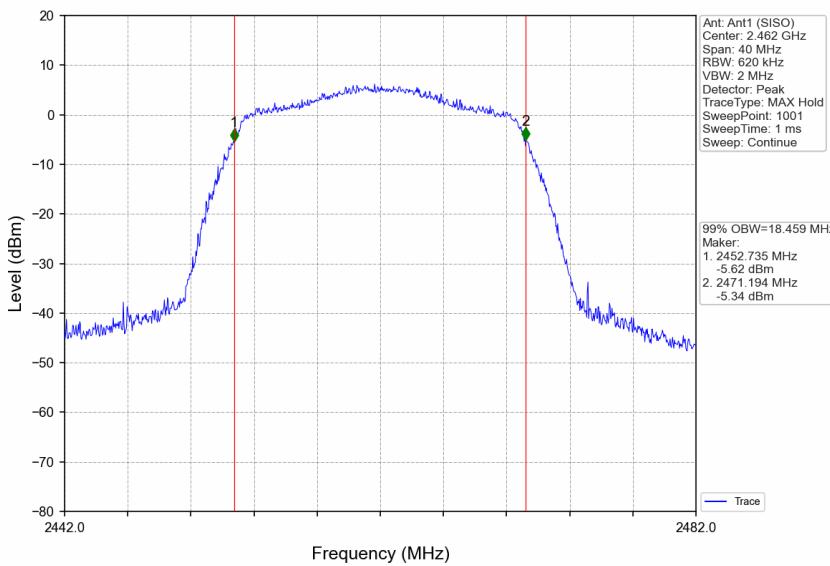


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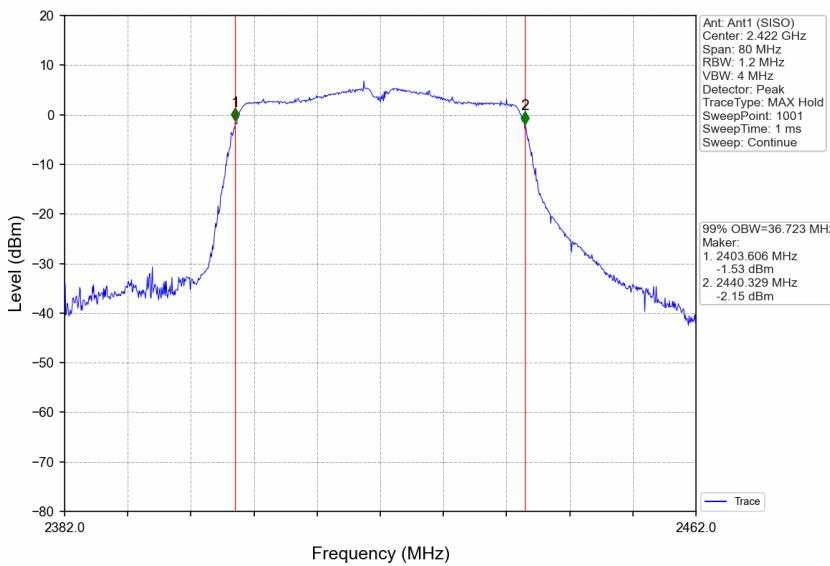
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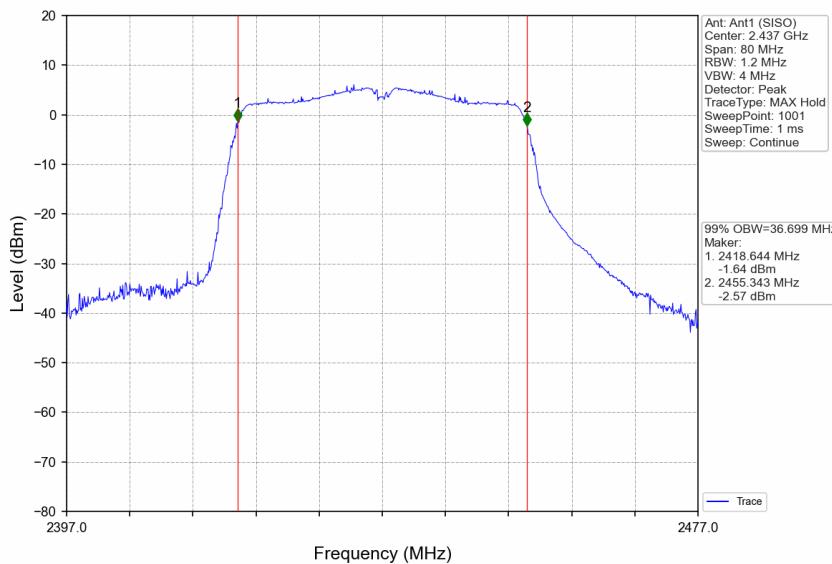


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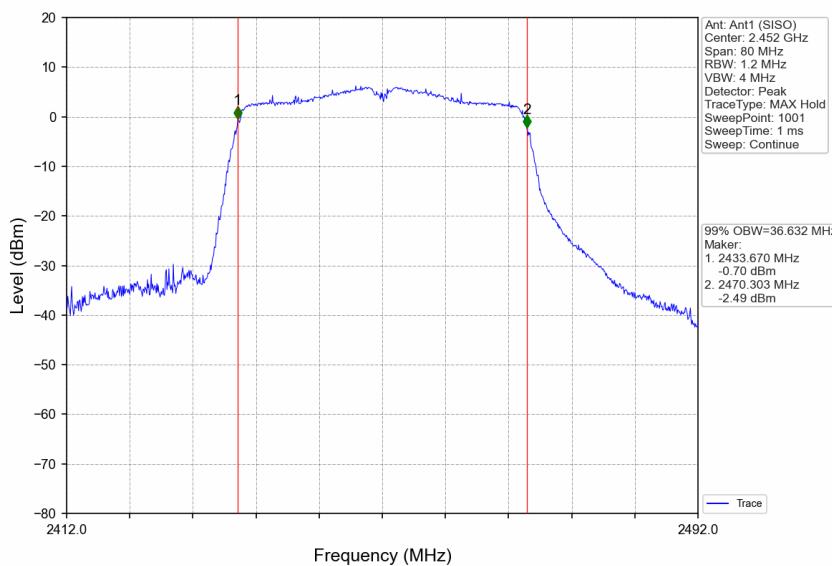
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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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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 | |
| 802.11b | SISO | 2412 | 1 | 8.096 | >=0.5 | Pass |
| | | 2437 | 1 | 8.103 | >=0.5 | Pass |
| | | 2462 | 1 | 8.092 | >=0.5 | Pass |
| 802.11g | SISO | 2412 | 1 | 15.212 | >=0.5 | Pass |
| | | 2437 | 1 | 16.339 | >=0.5 | Pass |
| | | 2462 | 1 | 16.061 | >=0.5 | Pass |
| 802.11n (HT20) | SISO | 2412 | 1 | 15.224 | >=0.5 | Pass |
| | | 2437 | 1 | 17.543 | >=0.5 | Pass |
| | | 2462 | 1 | 15.213 | >=0.5 | Pass |
| 802.11n (HT40) | SISO | 2422 | 1 | 35.827 | >=0.5 | Pass |
| | | 2437 | 1 | 35.780 | >=0.5 | Pass |
| | | 2452 | 1 | 35.233 | >=0.5 | Pass |

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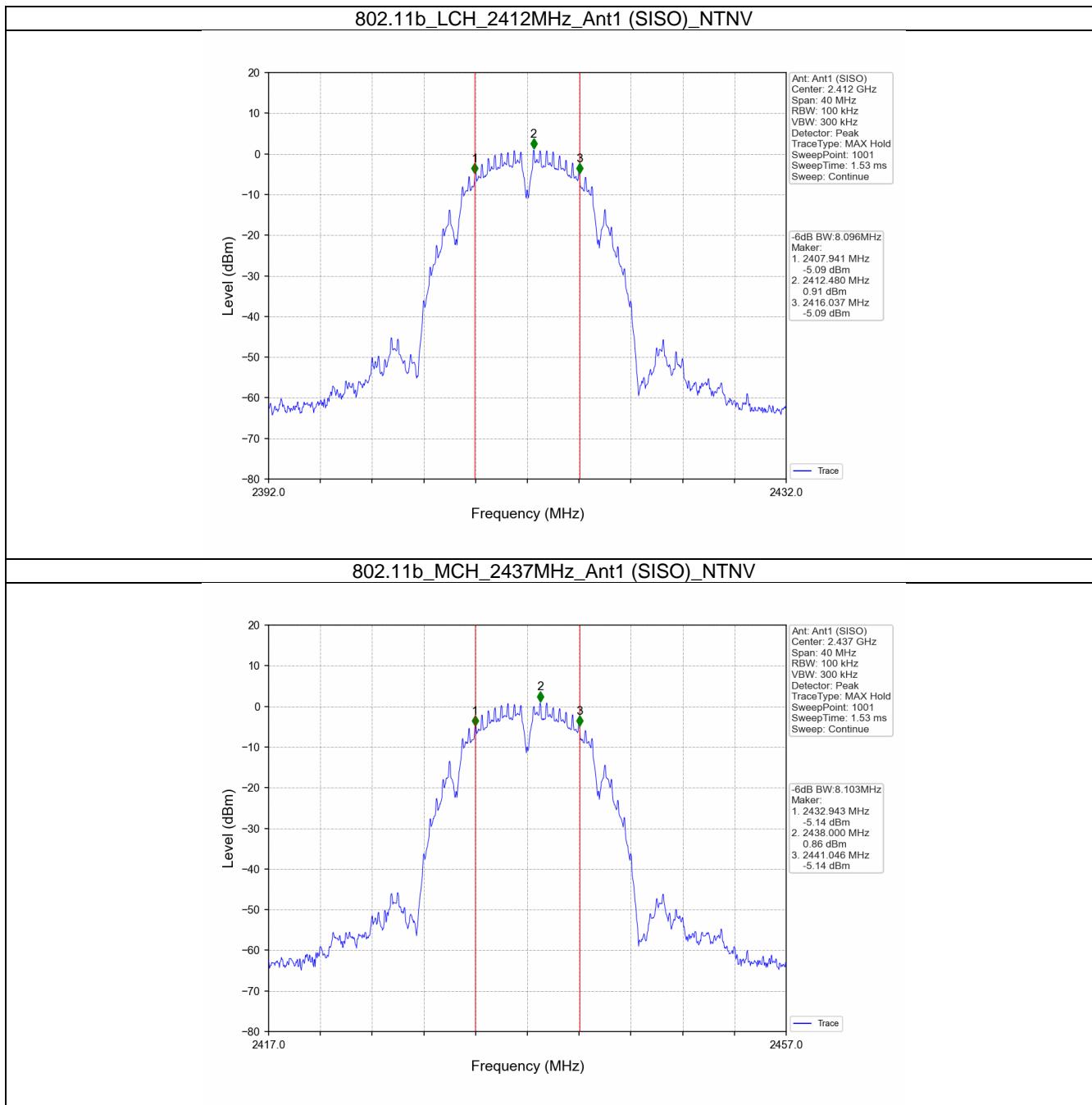
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2.2.2 Test Graph

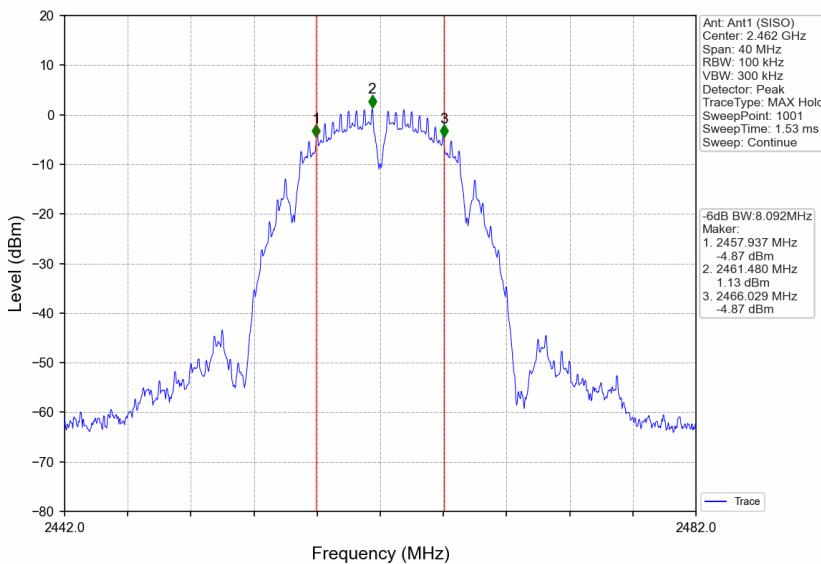


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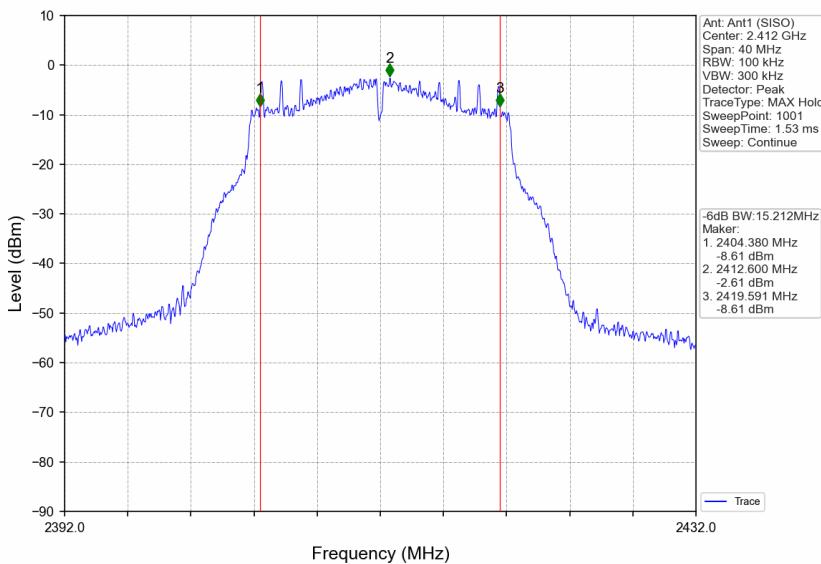
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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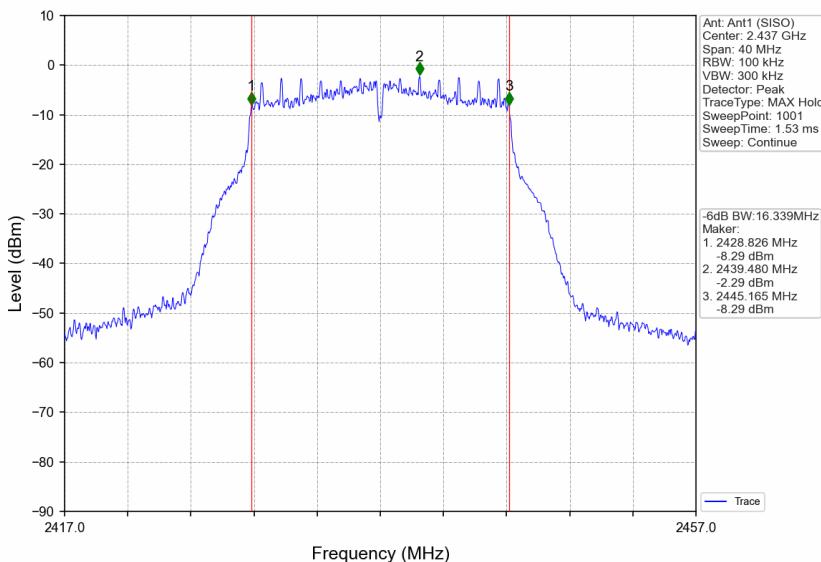
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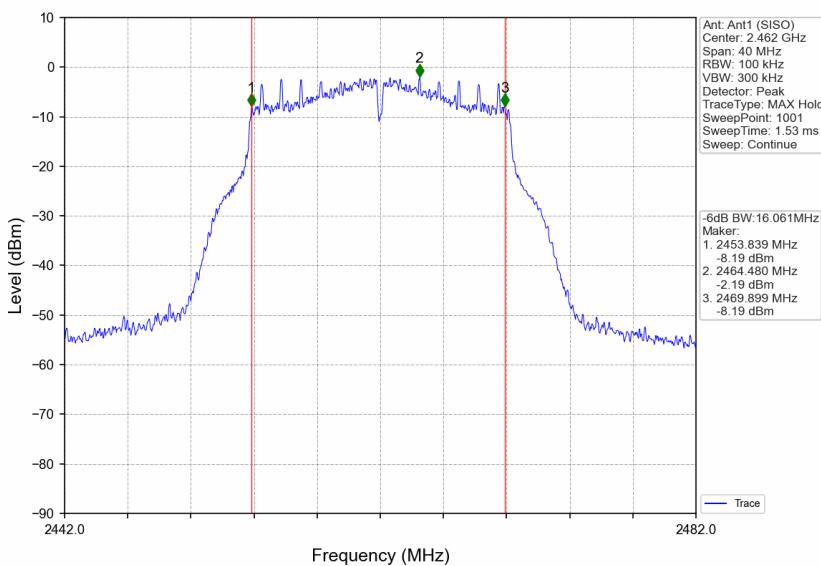
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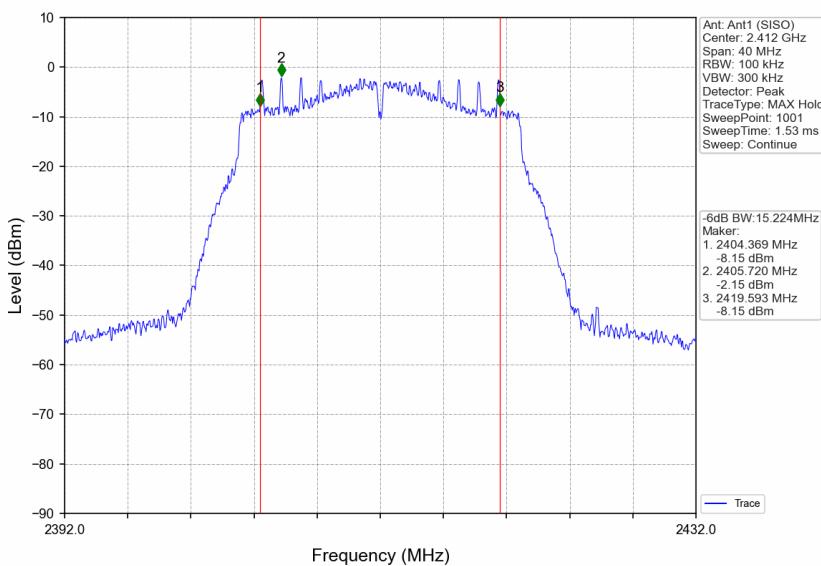


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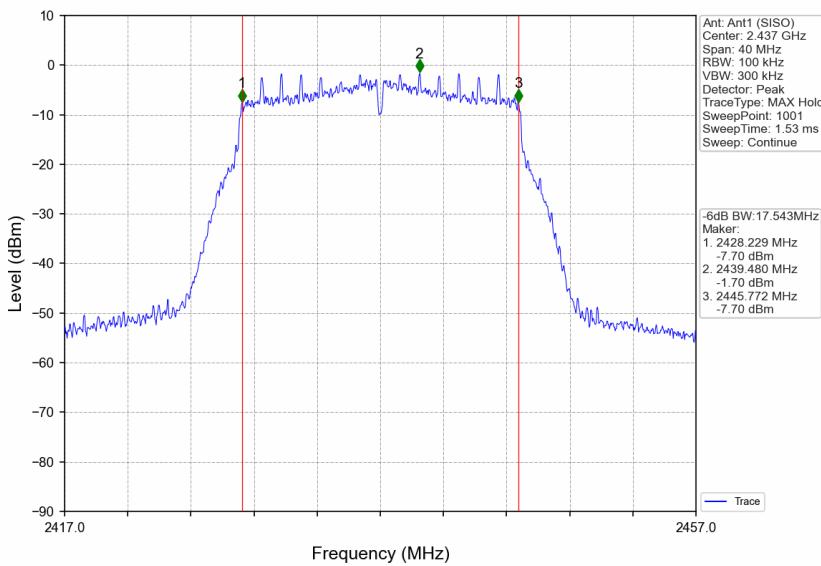
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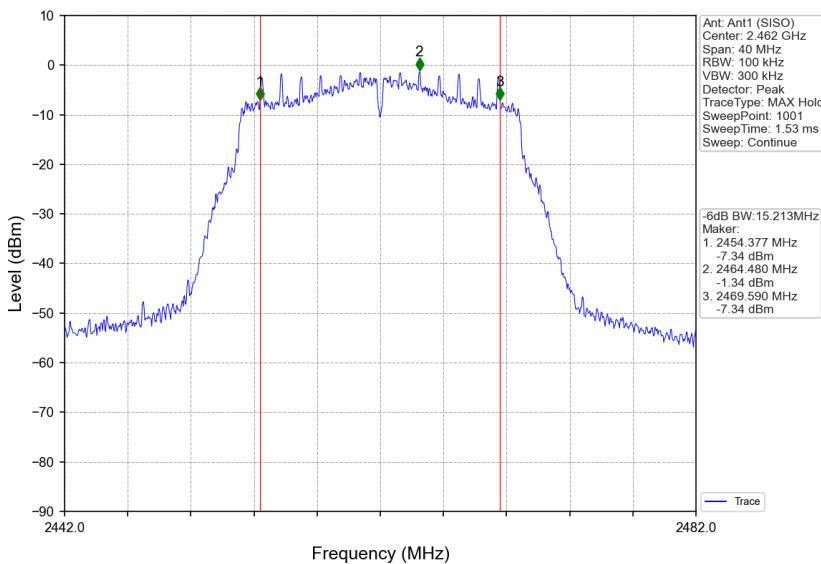


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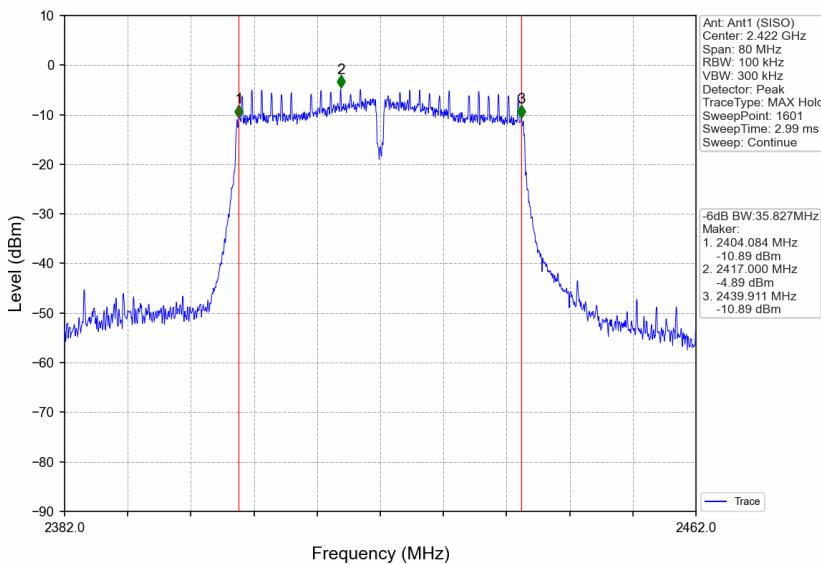
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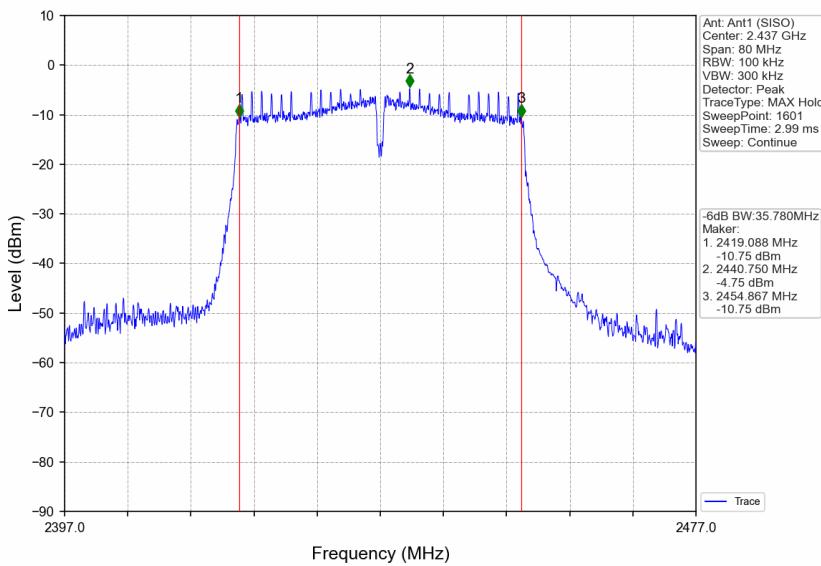


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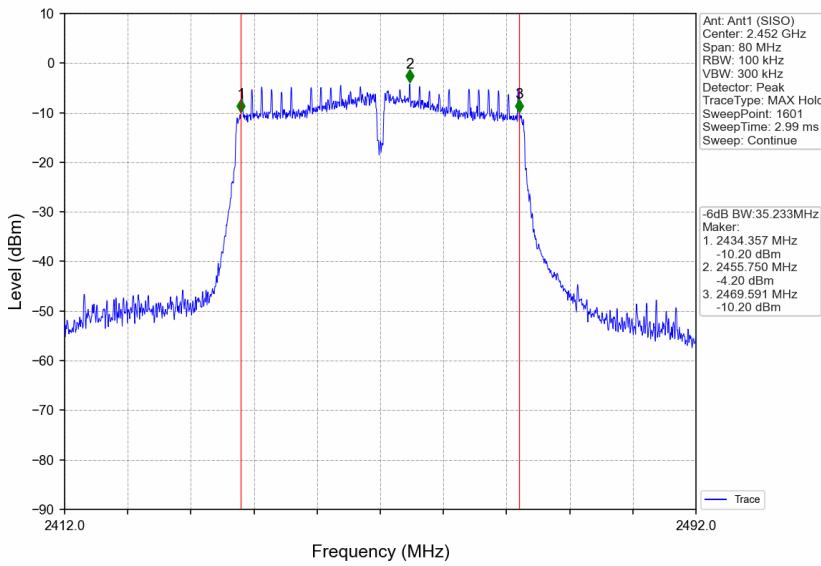
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) | | Verdict |
|----------------|---------|-----------------|--|-------|---------|
| | | | Ant1 | Limit | |
| 802.11b | SISO | 2412 | 9.08 | <=30 | Pass |
| | | 2437 | 9.14 | <=30 | Pass |
| | | 2462 | 9.43 | <=30 | Pass |
| 802.11g | SISO | 2412 | 8.86 | <=30 | Pass |
| | | 2437 | 9.30 | <=30 | Pass |
| | | 2462 | 9.59 | <=30 | Pass |
| 802.11n (HT20) | SISO | 2412 | 9.26 | <=30 | Pass |
| | | 2437 | 9.58 | <=30 | Pass |
| | | 2462 | 9.76 | <=30 | Pass |
| 802.11n (HT40) | SISO | 2422 | 9.00 | <=30 | Pass |
| | | 2437 | 9.33 | <=30 | Pass |
| | | 2452 | 9.40 | <=30 | Pass |

Note1: Antenna Gain: Ant1: 2.58dBi;

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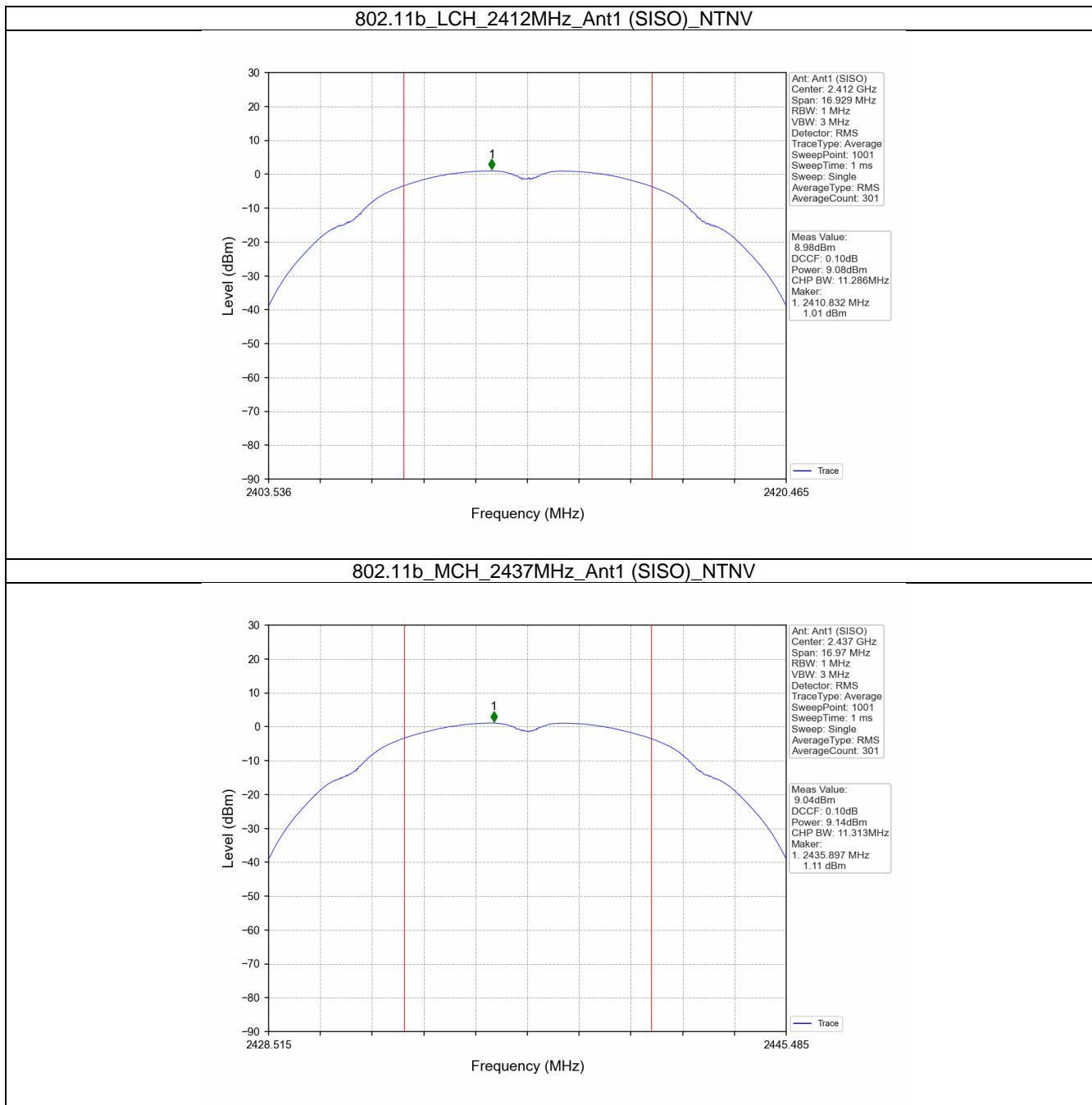


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3.1.2 Test Graph



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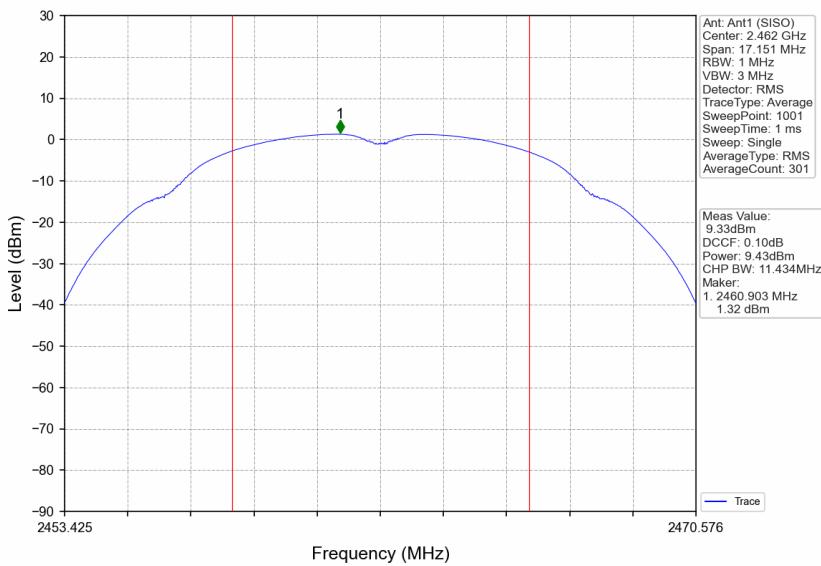


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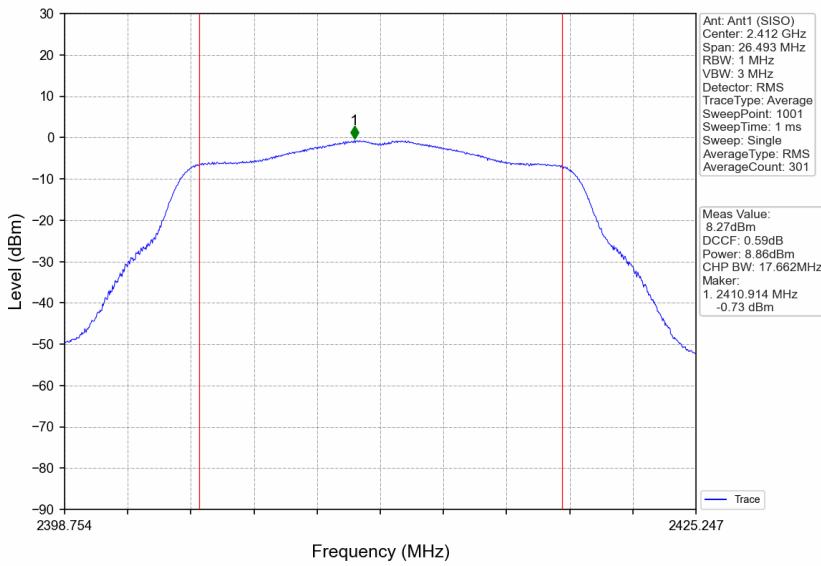
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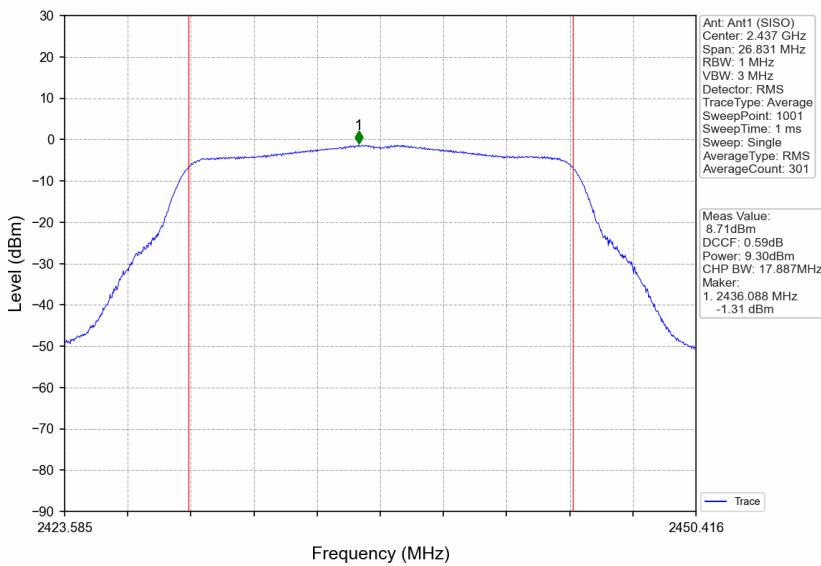


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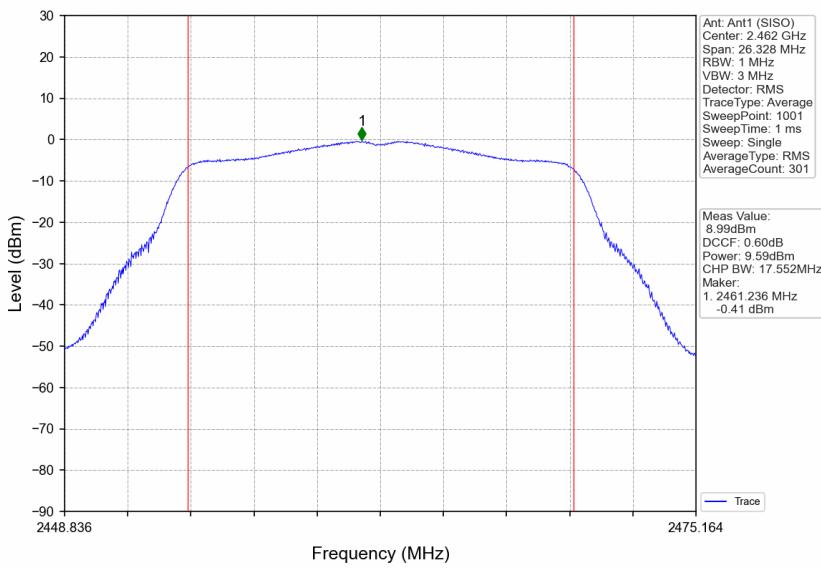
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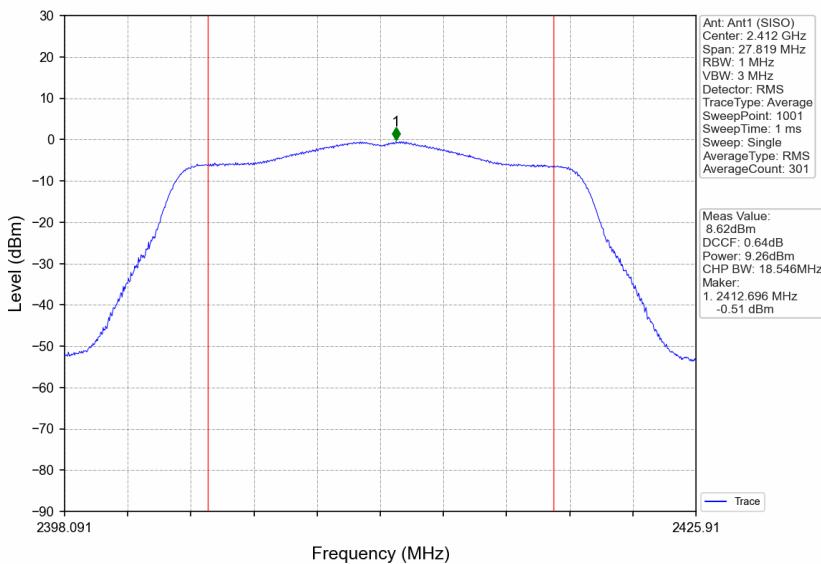
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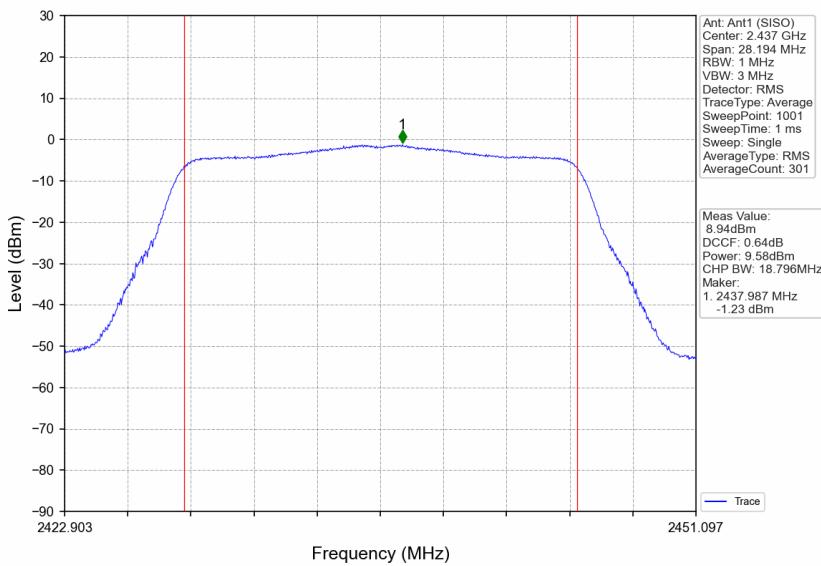
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802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



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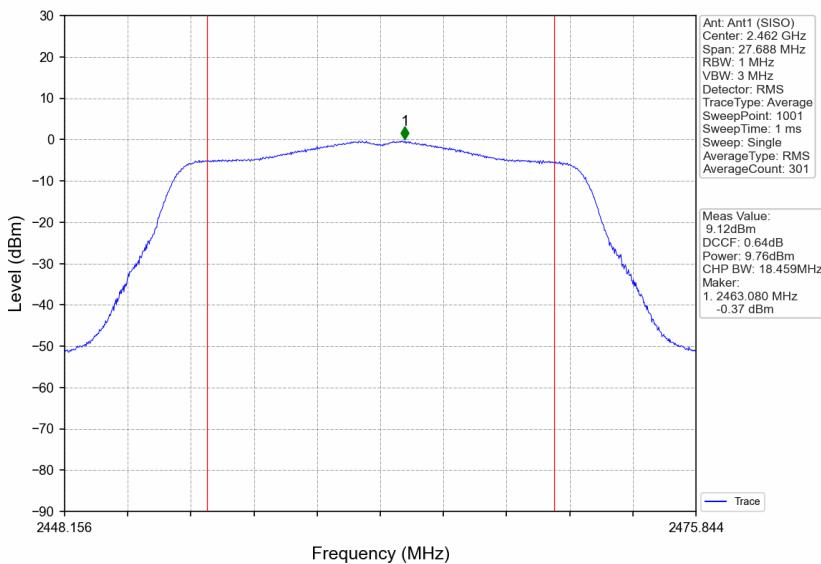


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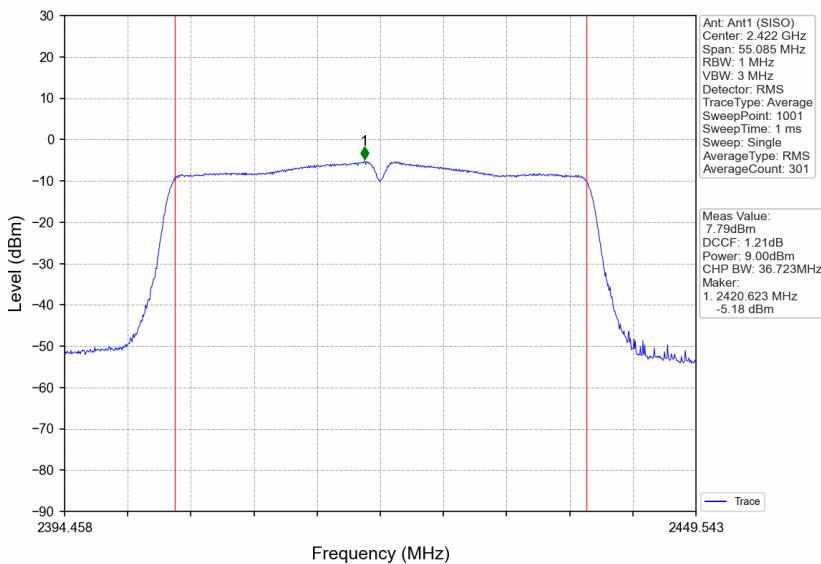
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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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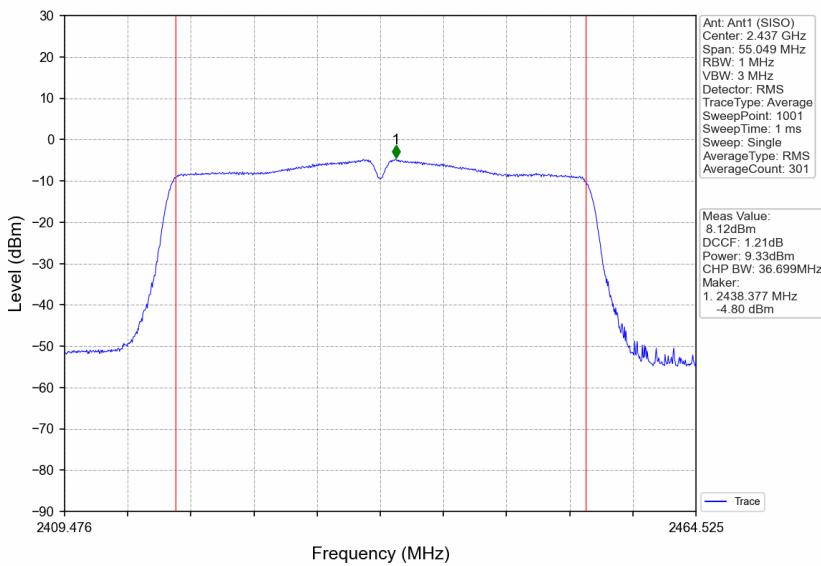


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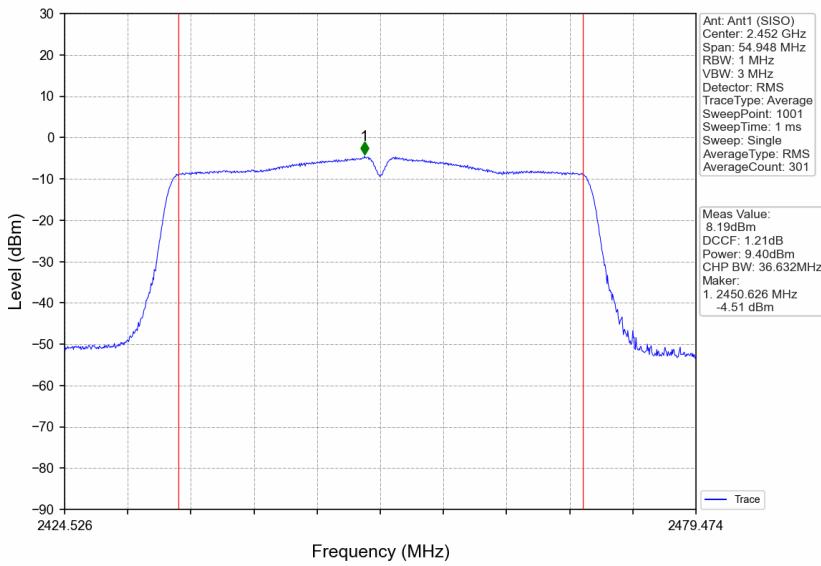
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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | Maximum PSD (dBm/3kHz) | | Verdict |
|----------------|---------|-----------------|------------------------|-------|---------|
| | | | Ant1 | Limit | |
| 802.11b | SISO | 2412 | -12.52 | <=8 | Pass |
| | | 2437 | -13.99 | <=8 | Pass |
| | | 2462 | -13.29 | <=8 | Pass |
| 802.11g | SISO | 2412 | -13.98 | <=8 | Pass |
| | | 2437 | -15.32 | <=8 | Pass |
| | | 2462 | -13.35 | <=8 | Pass |
| 802.11n (HT20) | SISO | 2412 | -14.40 | <=8 | Pass |
| | | 2437 | -14.94 | <=8 | Pass |
| | | 2462 | -13.61 | <=8 | Pass |
| 802.11n (HT40) | SISO | 2422 | -17.81 | <=8 | Pass |
| | | 2437 | -18.13 | <=8 | Pass |
| | | 2452 | -16.96 | <=8 | Pass |

Note1: Antenna Gain: Ant1: 2.58dBi;

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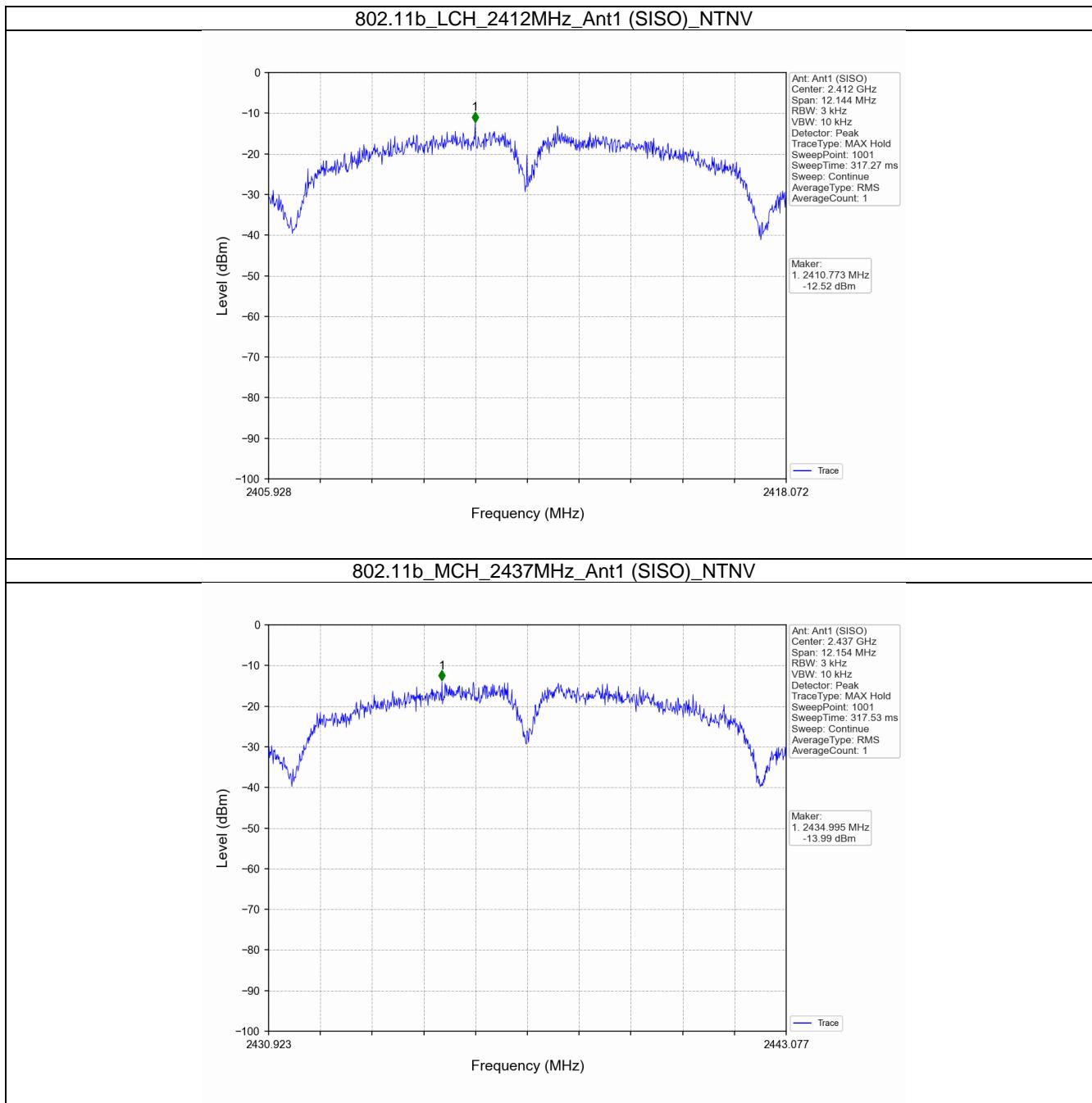


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4.1.2 Test Graph



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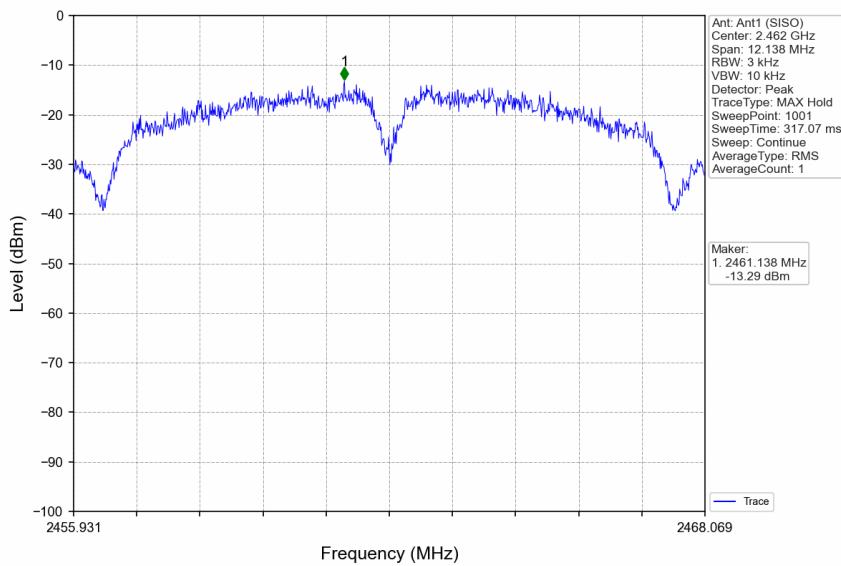
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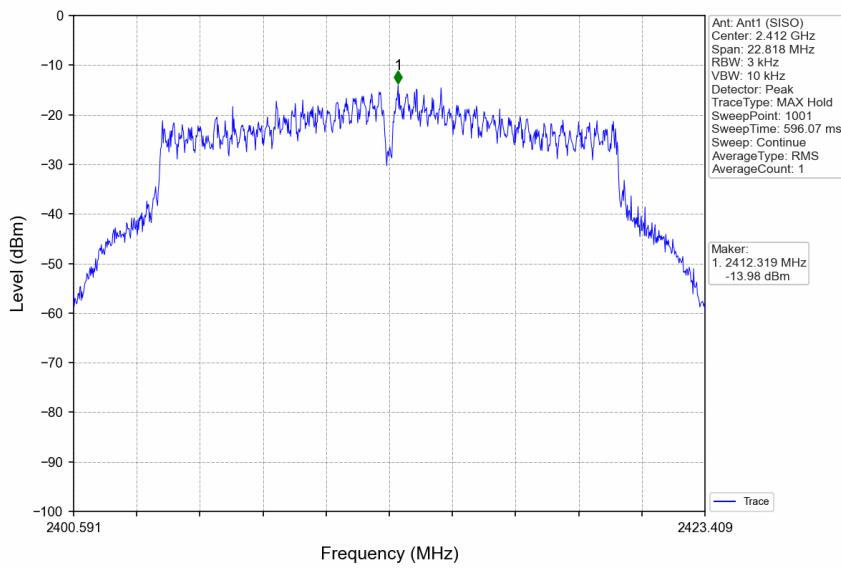
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802.11g_LCH_2412MHz_Ant1 (SISO)_NTNV



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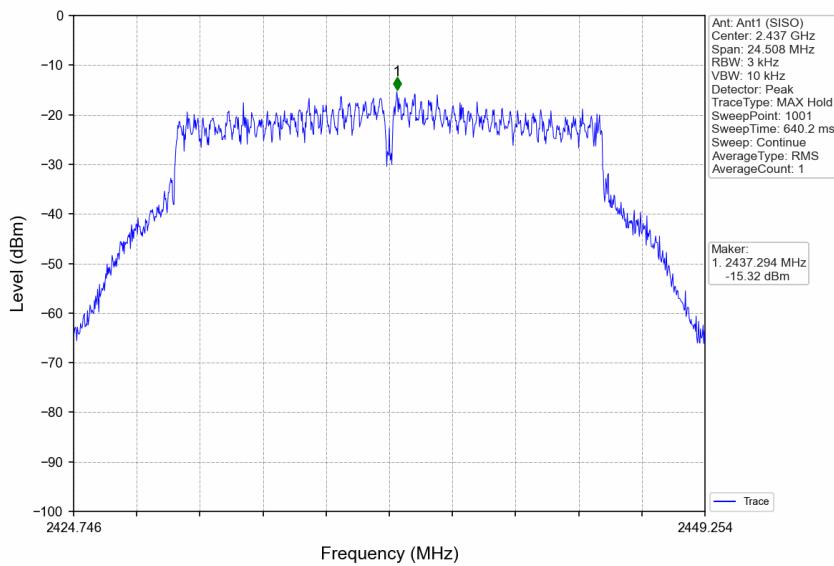


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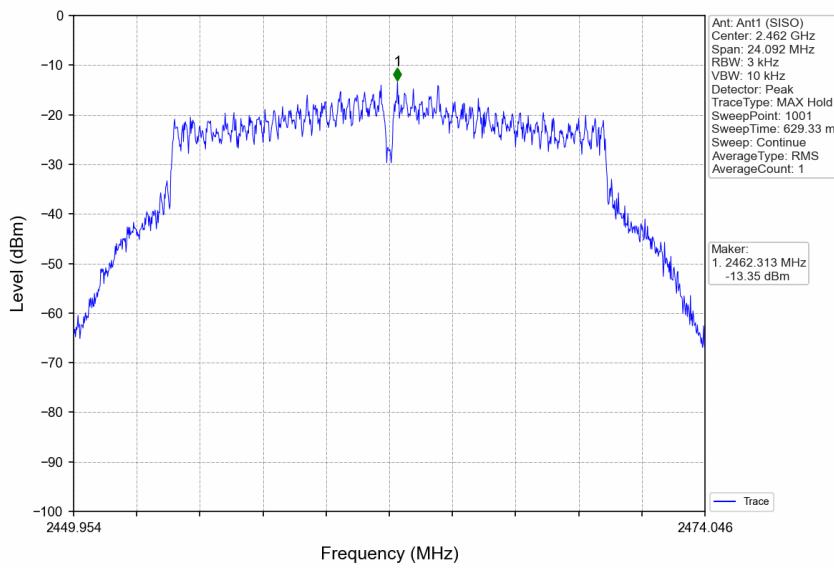
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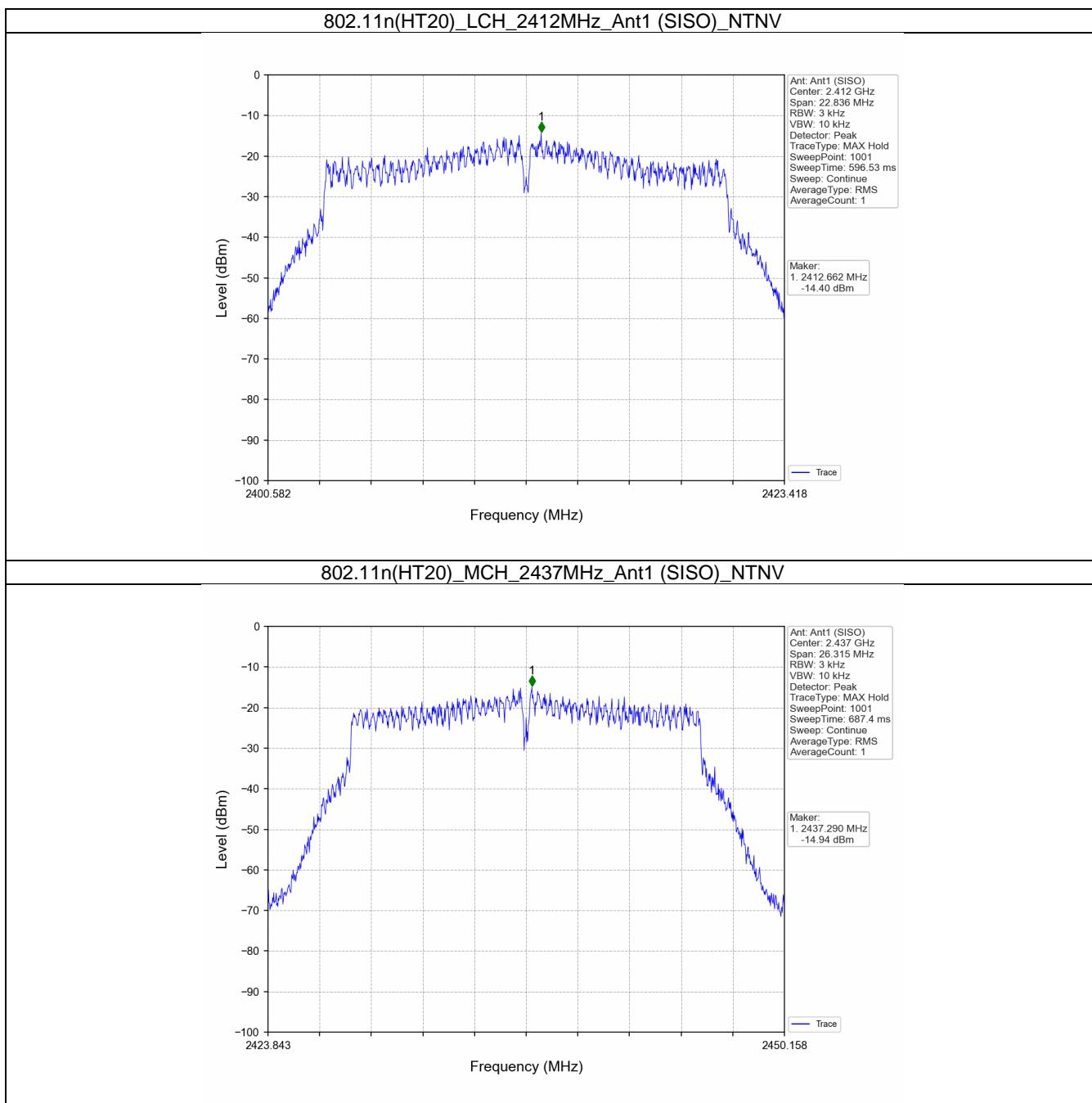
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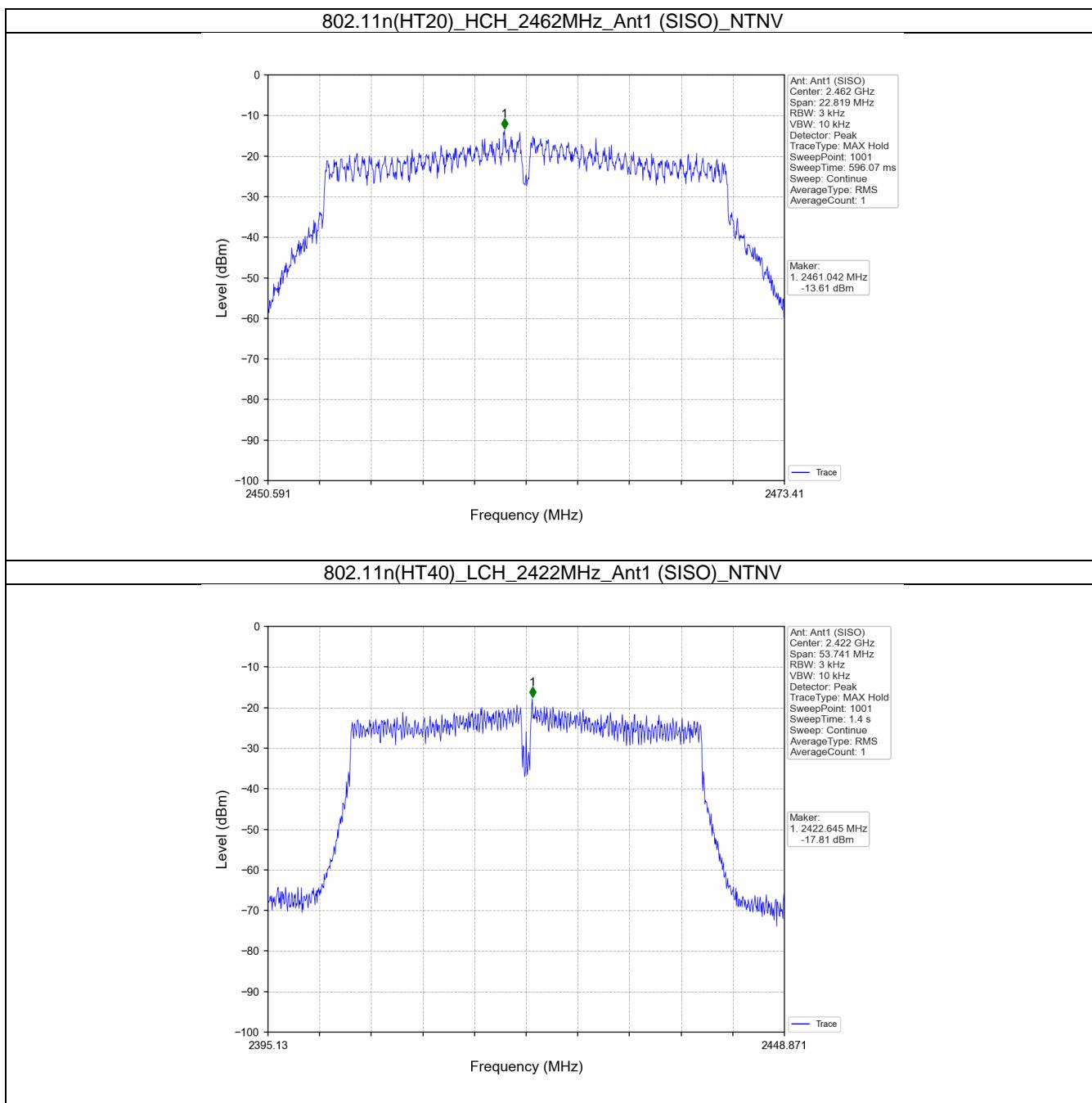
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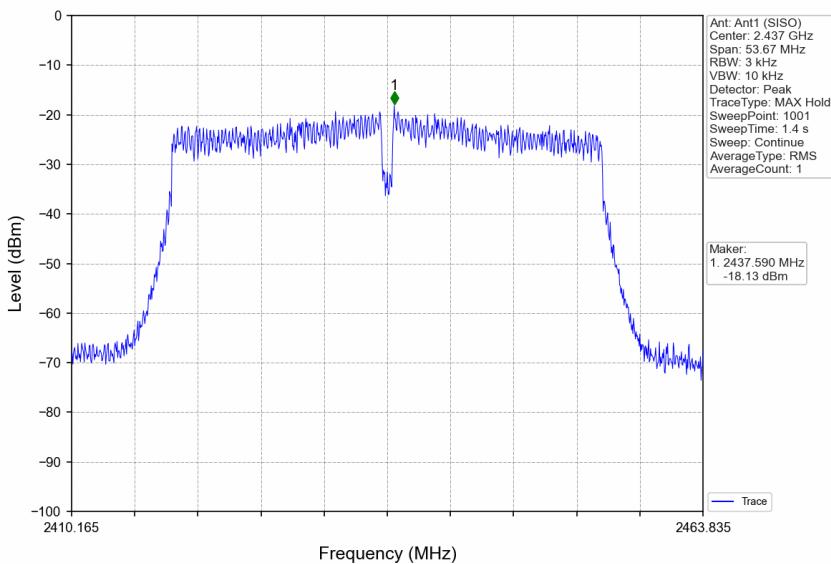


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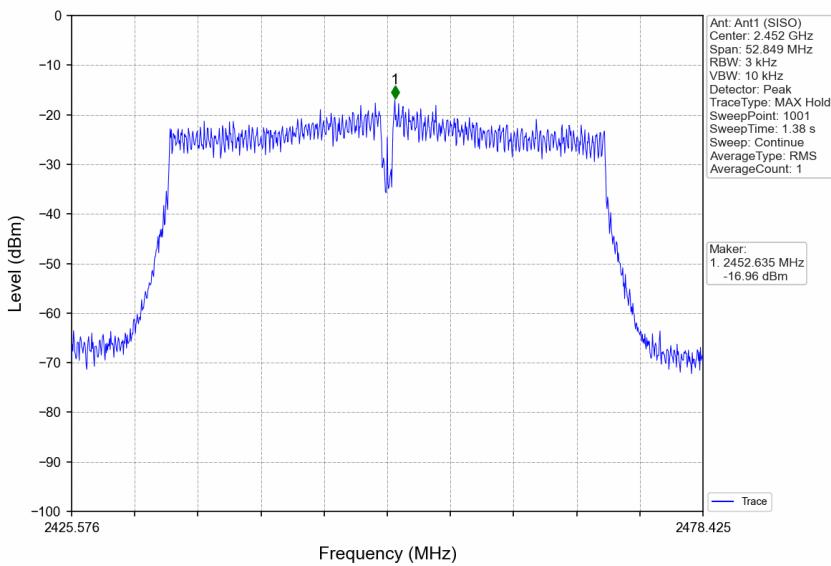
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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | Ant | Level of Reference (dBm) |
|----------------|---------|-----------------|-----|--------------------------|
| 802.11b | SISO | 2412 | 1 | 0.88 |
| | | 2437 | 1 | 0.74 |
| | | 2462 | 1 | 1.06 |
| 802.11g | SISO | 2412 | 1 | -2.60 |
| | | 2437 | 1 | -2.53 |
| | | 2462 | 1 | -1.97 |
| 802.11n (HT20) | SISO | 2412 | 1 | -2.10 |
| | | 2437 | 1 | -1.77 |
| | | 2462 | 1 | -1.50 |
| 802.11n (HT40) | SISO | 2422 | 1 | -5.02 |
| | | 2437 | 1 | -4.73 |
| | | 2452 | 1 | -4.17 |

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

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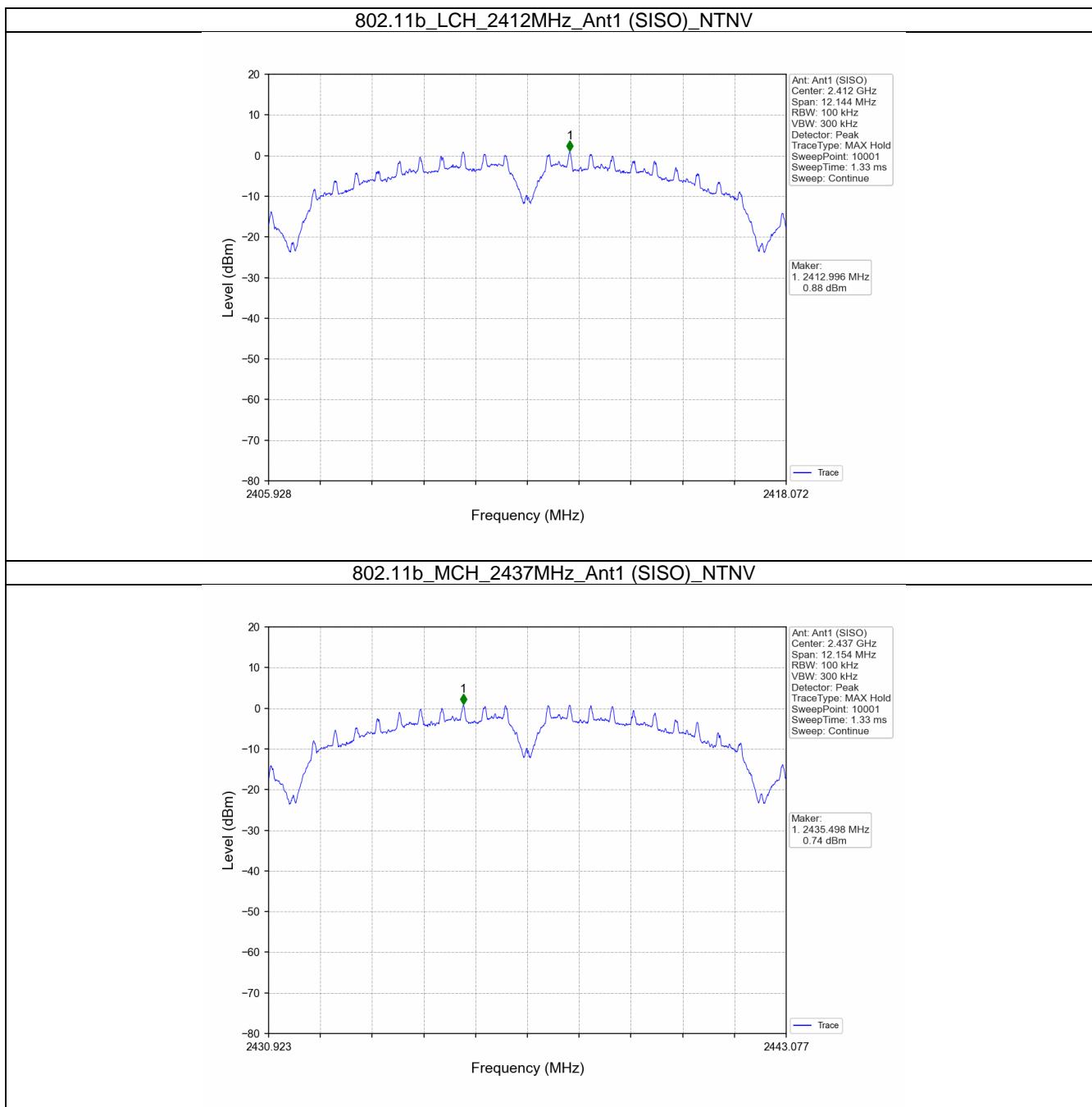


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5.1.2 Test Graph

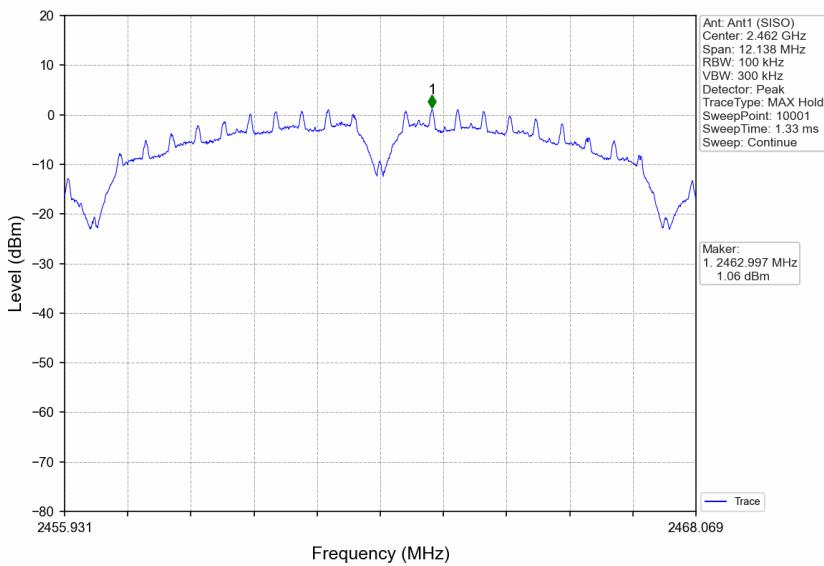


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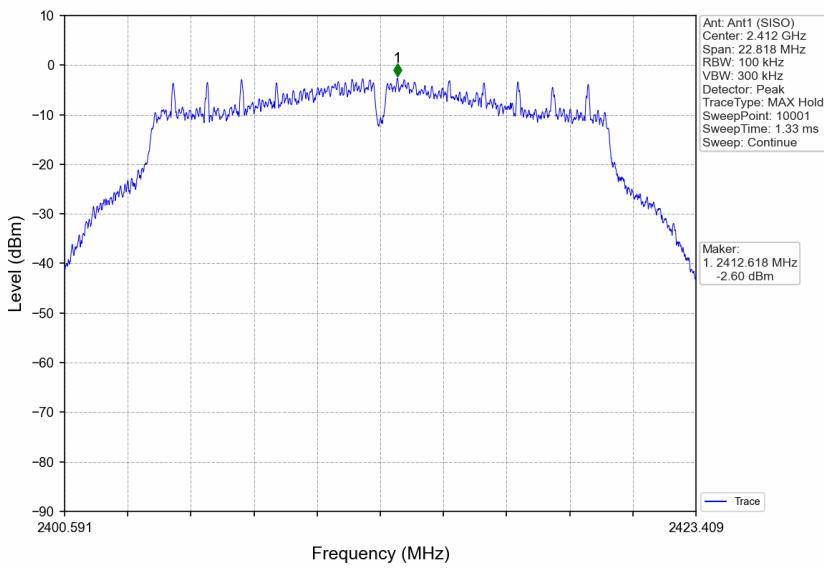
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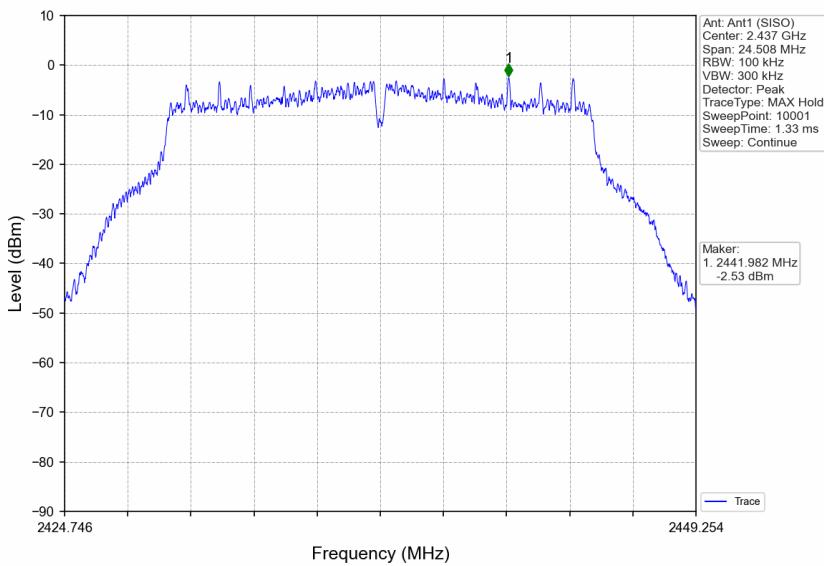


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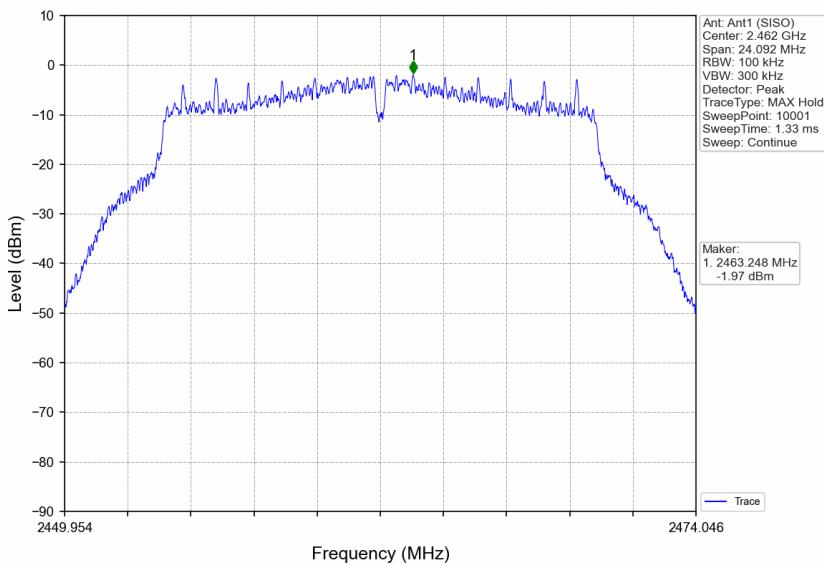
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802.11g_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11g_HCH_2462MHz_Ant1 (SISO)_NTNV

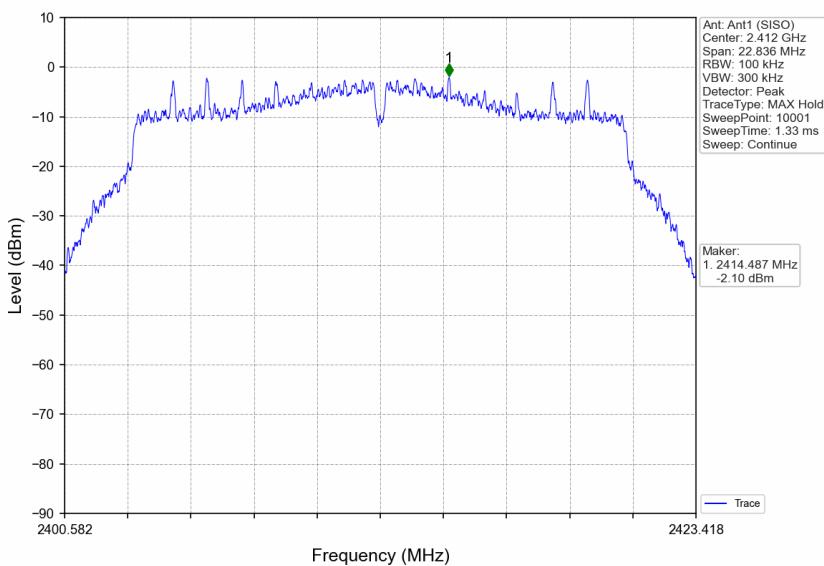


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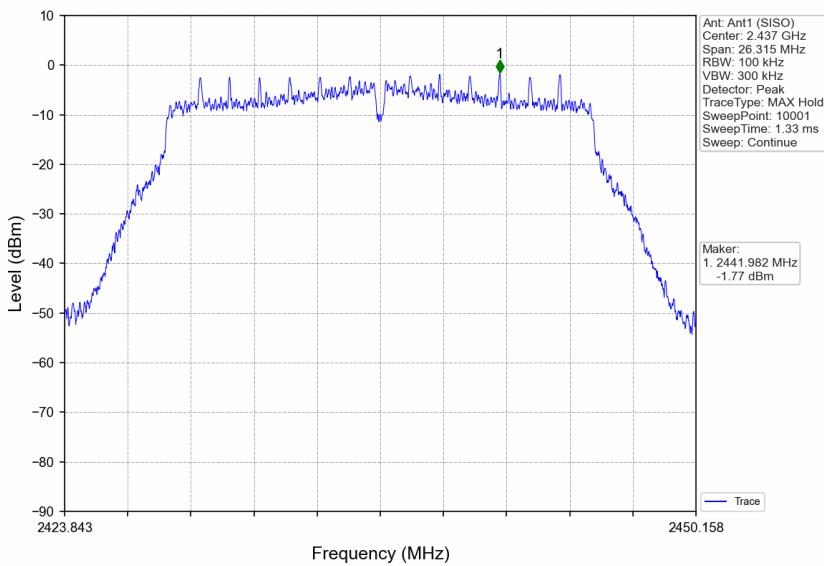
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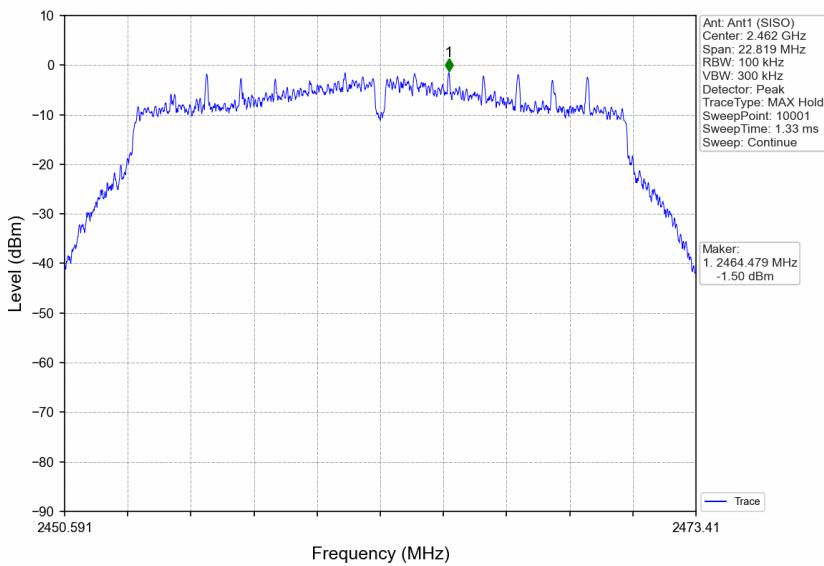


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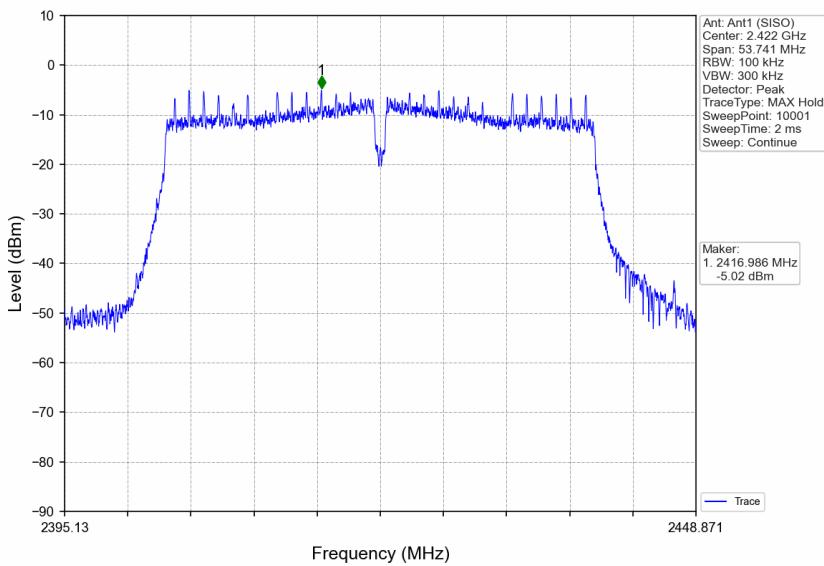
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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



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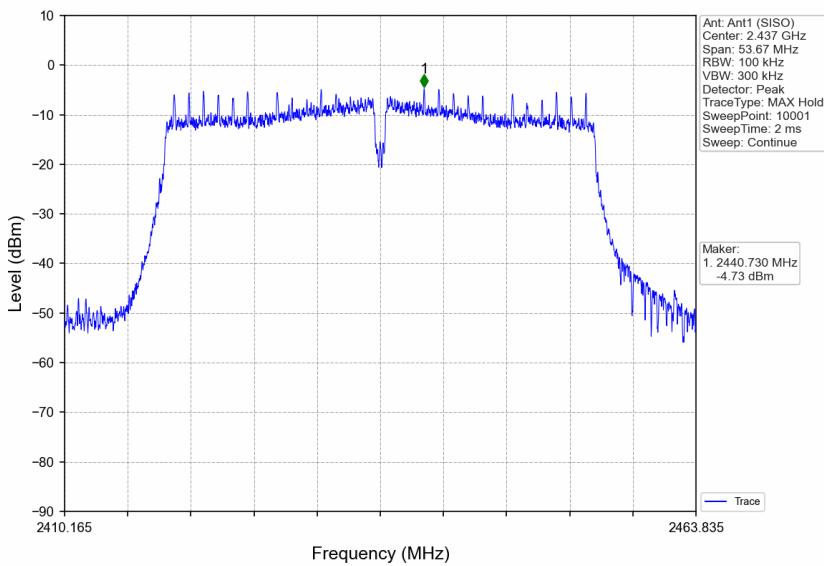


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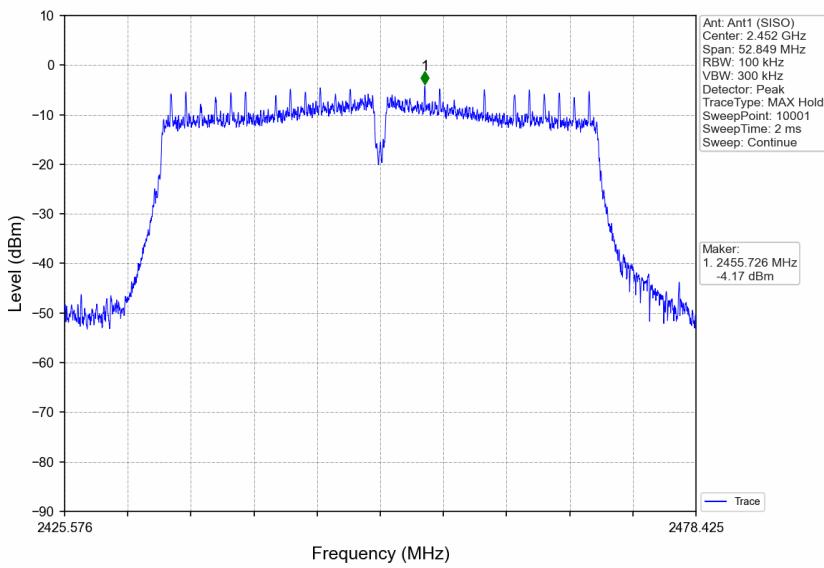
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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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5.2 CSE

5.2.1 Test Result

| Mode | TX Type | Frequency (MHz) | Ant | Level of Reference (dBm) | Limit (dBm) | Verdict |
|----------------|---------|-----------------|-----|--------------------------|-------------|---------|
| 802.11b | SISO | 2412 | 1 | 1.06 | -28.94 | Pass |
| | | 2437 | 1 | 1.06 | -28.94 | Pass |
| | | 2462 | 1 | 1.06 | -28.94 | Pass |
| 802.11g | SISO | 2412 | 1 | -1.97 | -31.97 | Pass |
| | | 2437 | 1 | -1.97 | -31.97 | Pass |
| | | 2462 | 1 | -1.97 | -31.97 | Pass |
| 802.11n (HT20) | SISO | 2412 | 1 | -1.50 | -31.50 | Pass |
| | | 2437 | 1 | -1.50 | -31.50 | Pass |
| | | 2462 | 1 | -1.50 | -31.50 | Pass |
| 802.11n (HT40) | SISO | 2422 | 1 | -4.17 | -34.17 | Pass |
| | | 2437 | 1 | -4.17 | -34.17 | Pass |
| | | 2452 | 1 | -4.17 | -34.17 | Pass |

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

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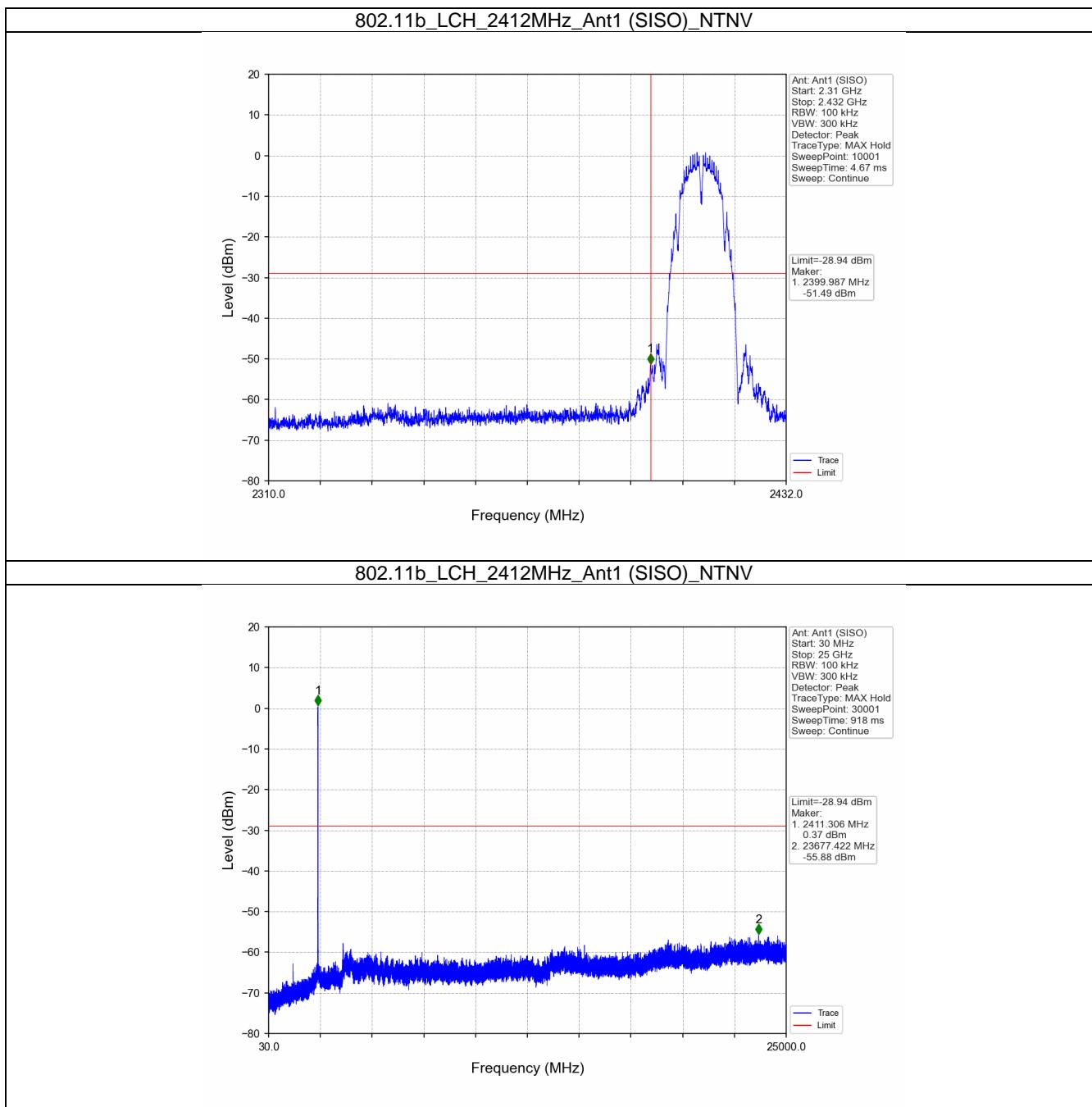


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5.2.2 Test Graph



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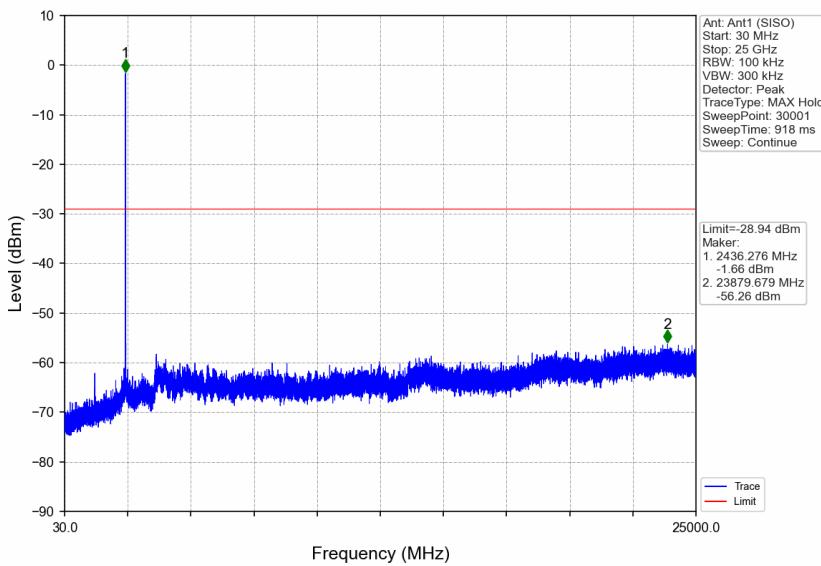
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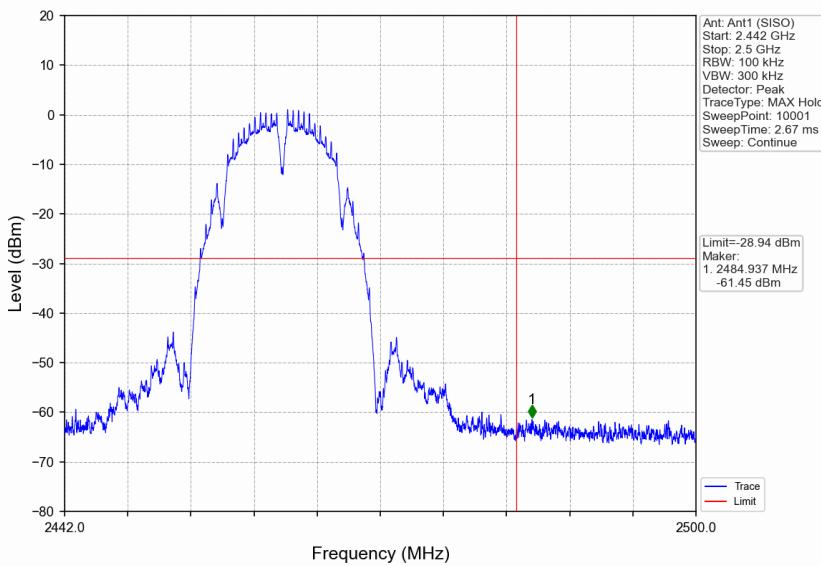
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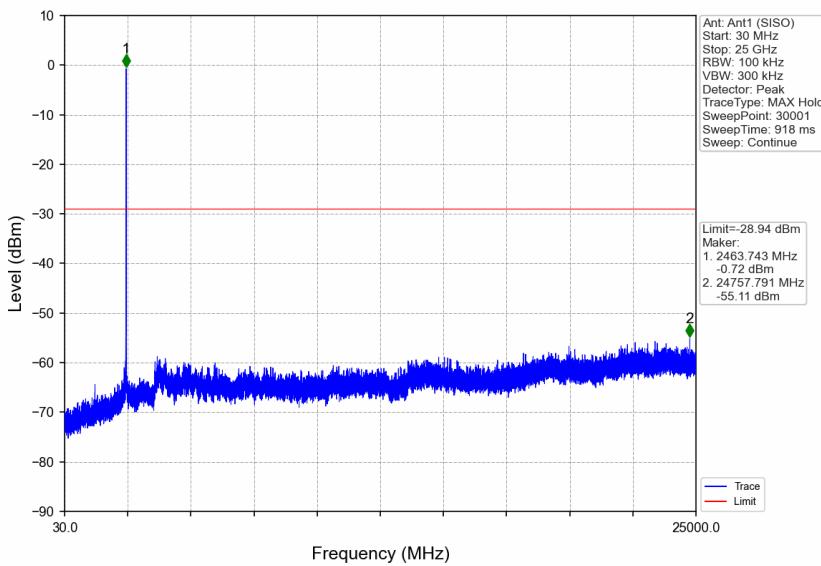
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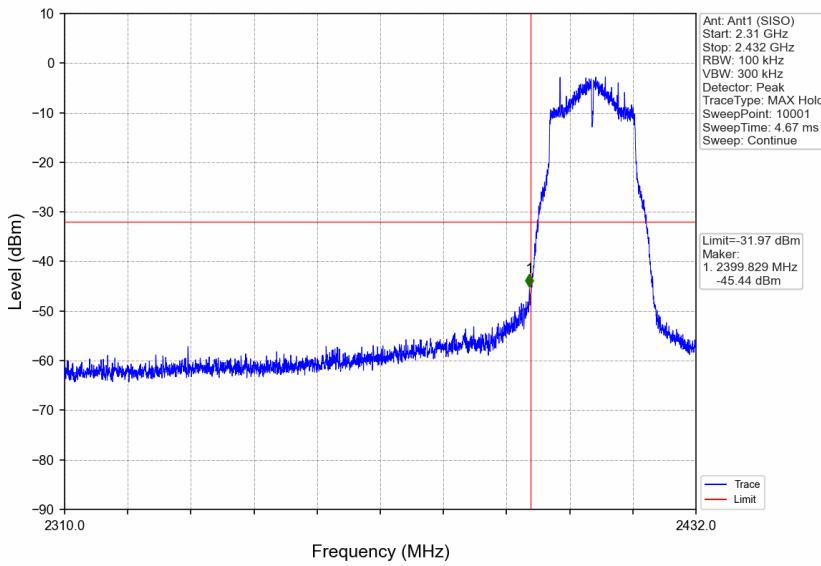
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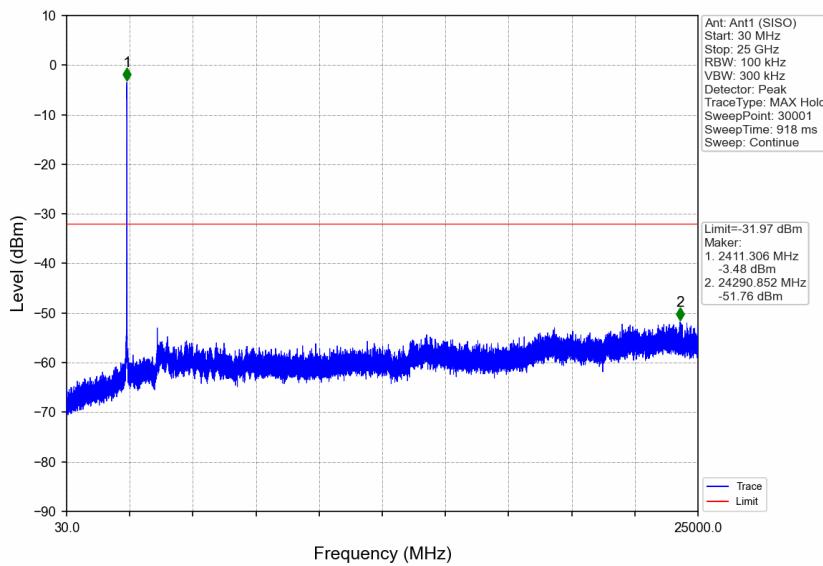


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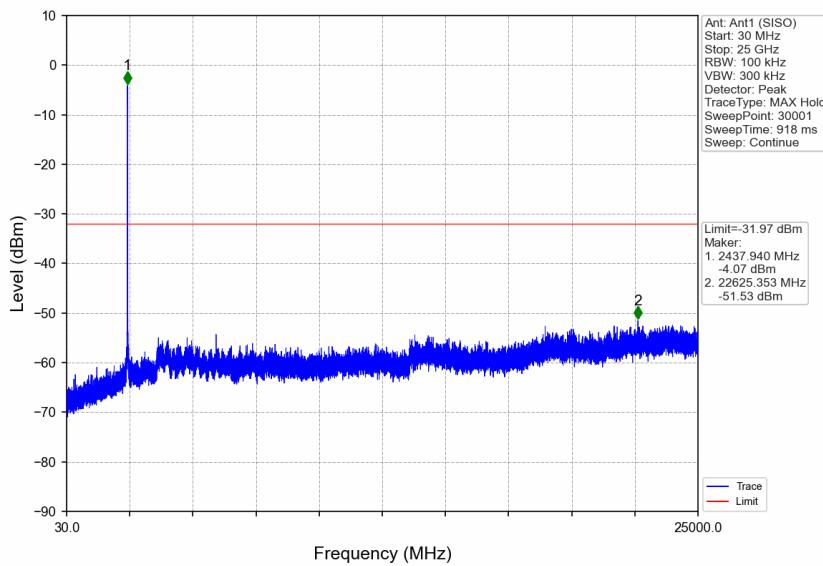
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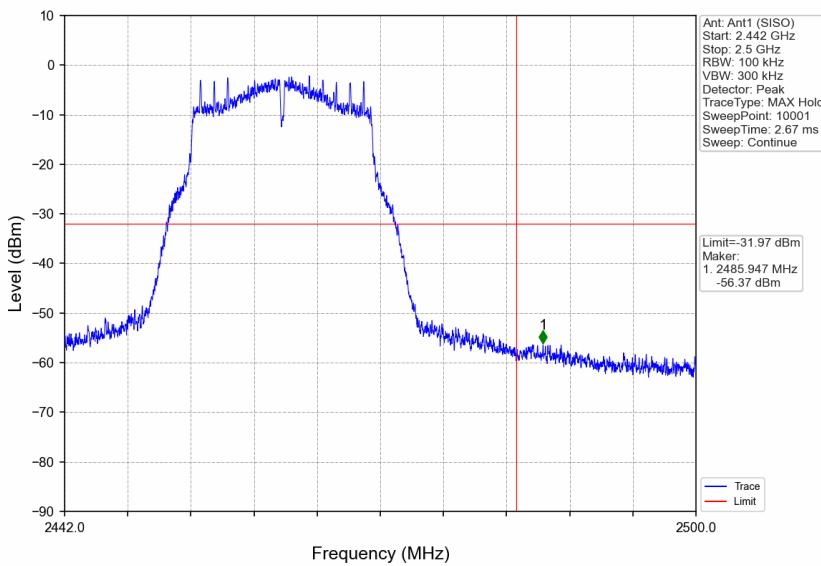
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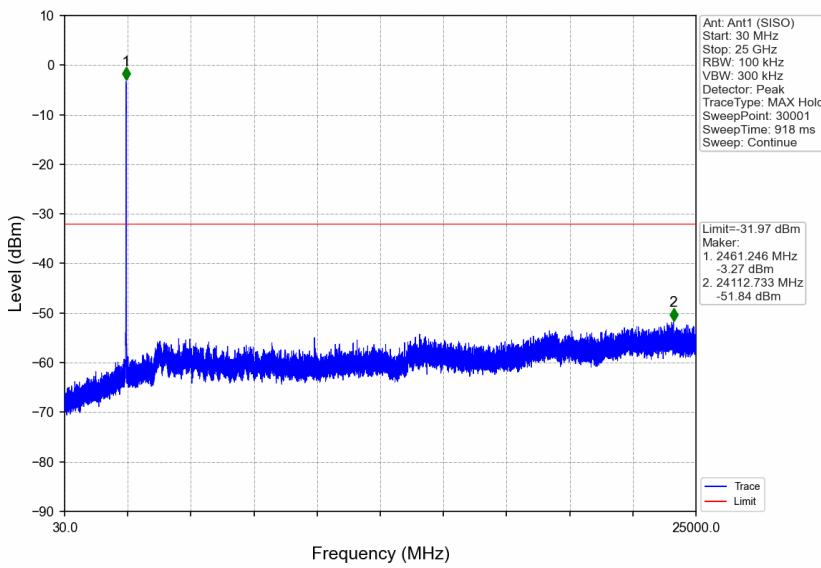
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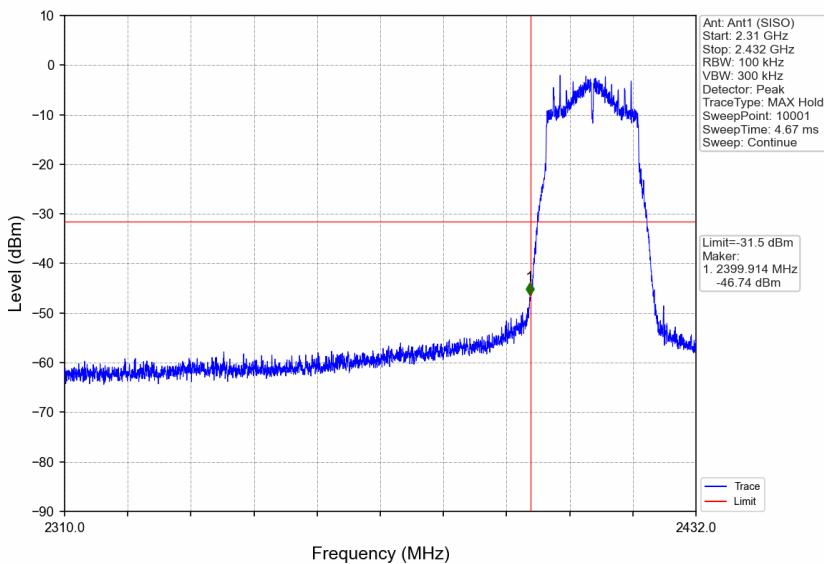


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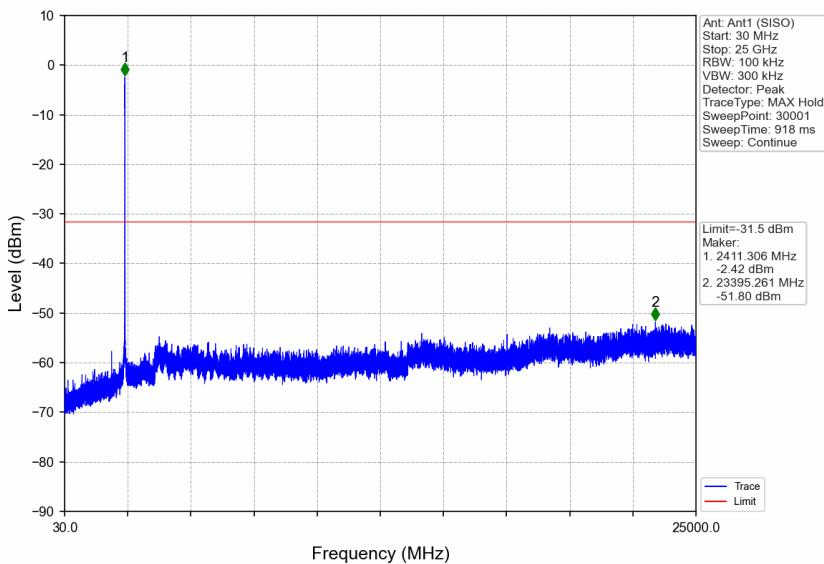
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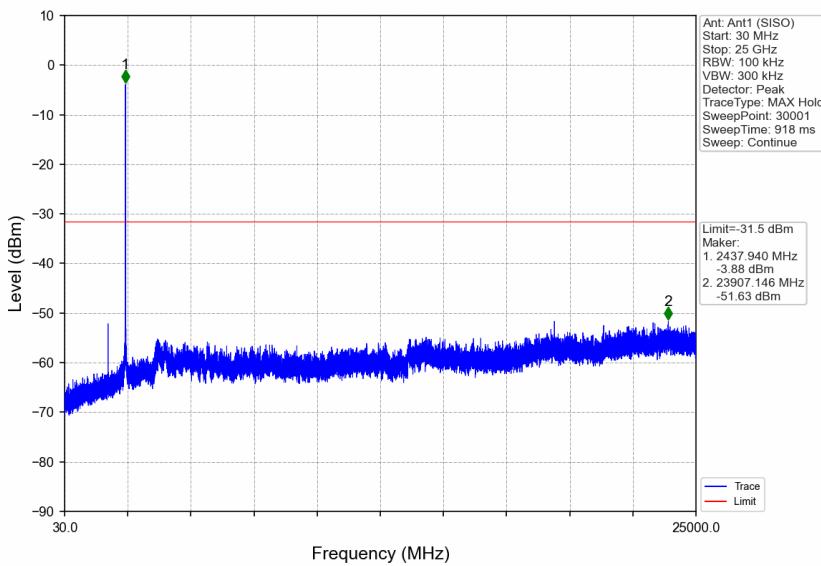
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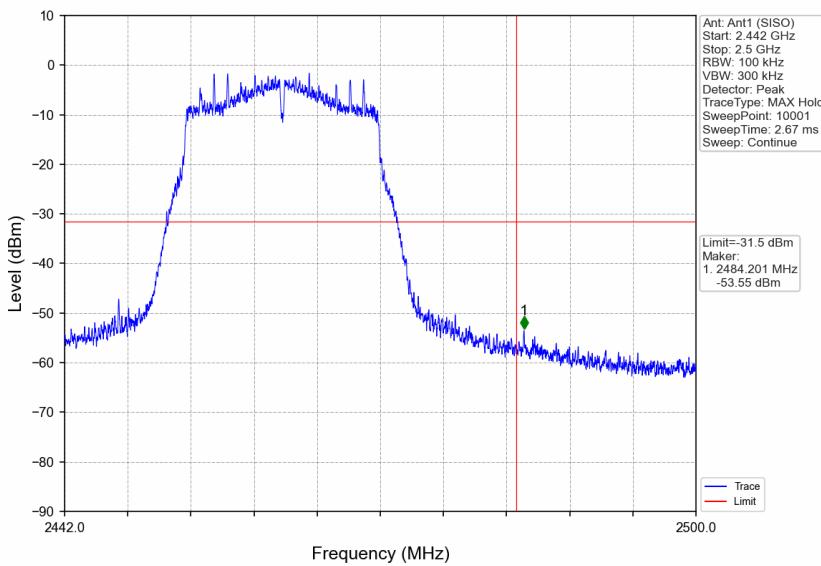
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



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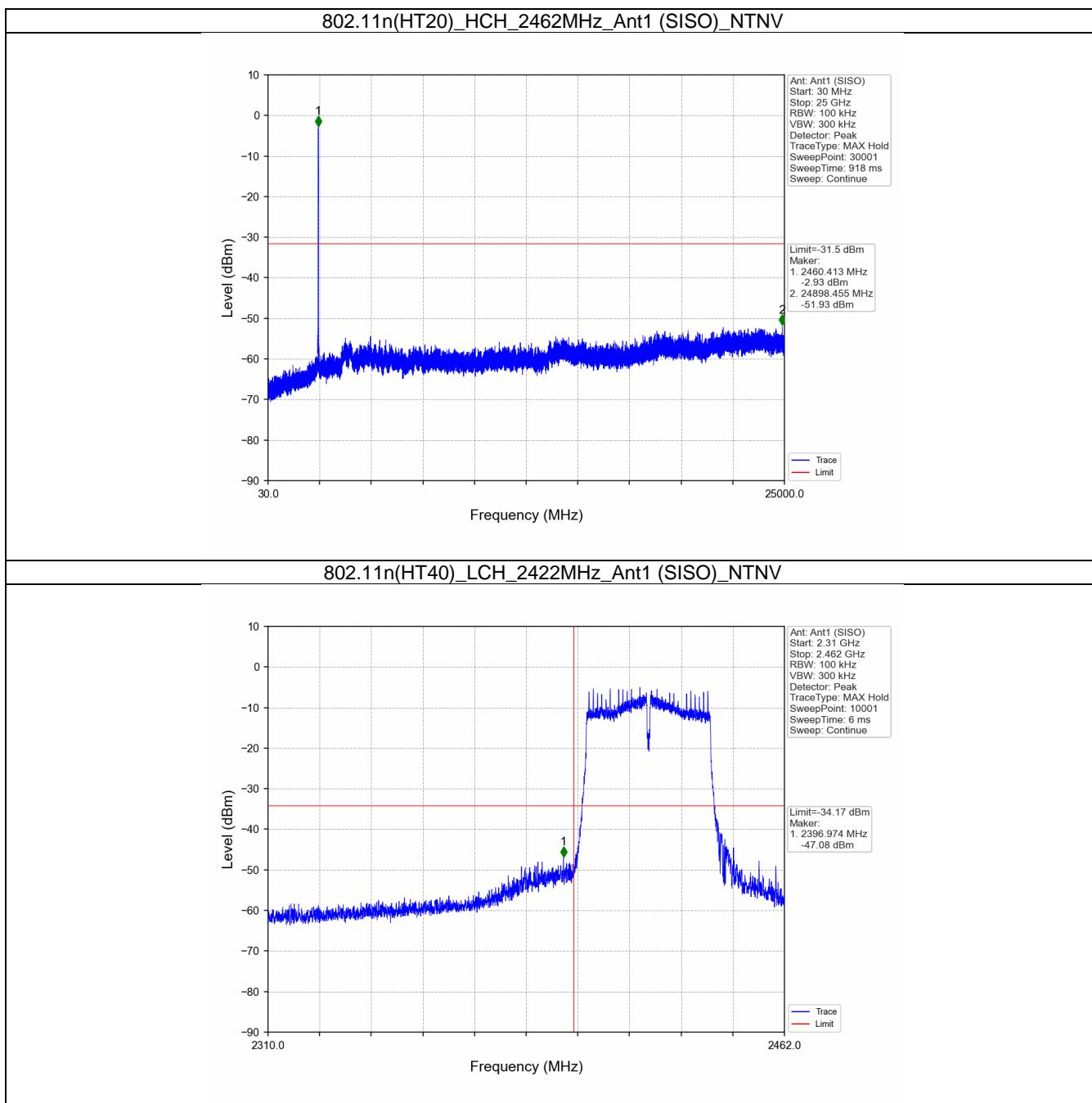
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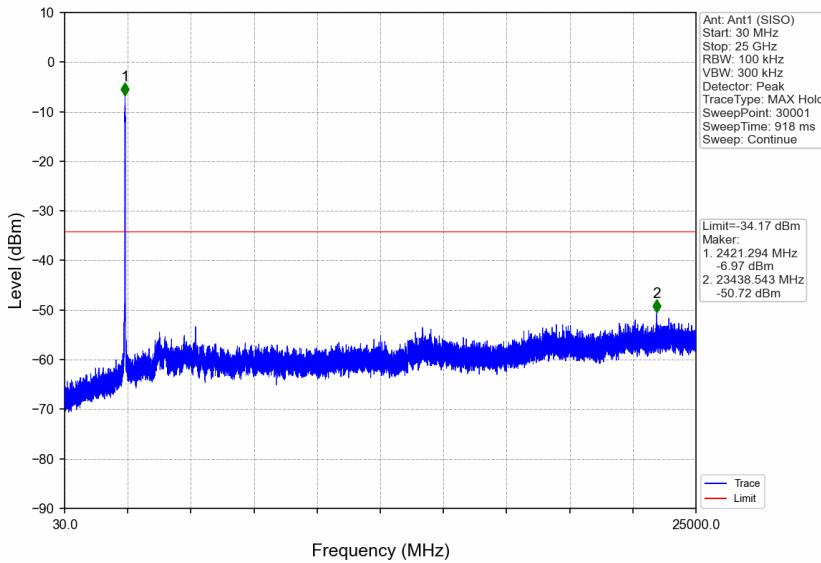


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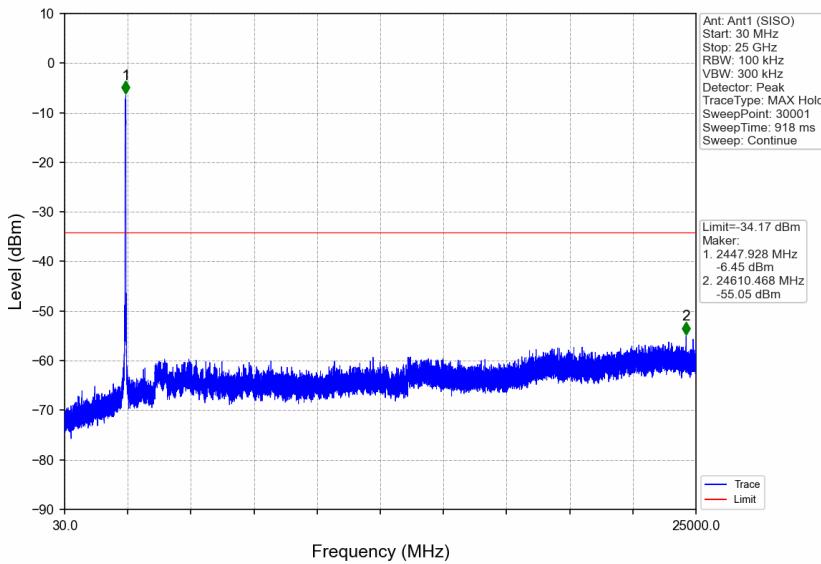
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802.11n(HT40)_LCH_2422MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_MCH_2437MHz_Ant1 (SISO)_NTNV

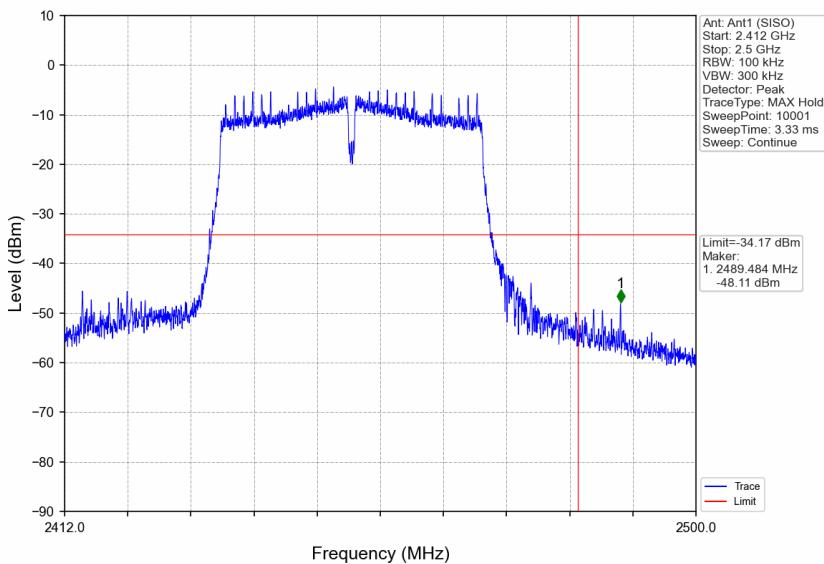


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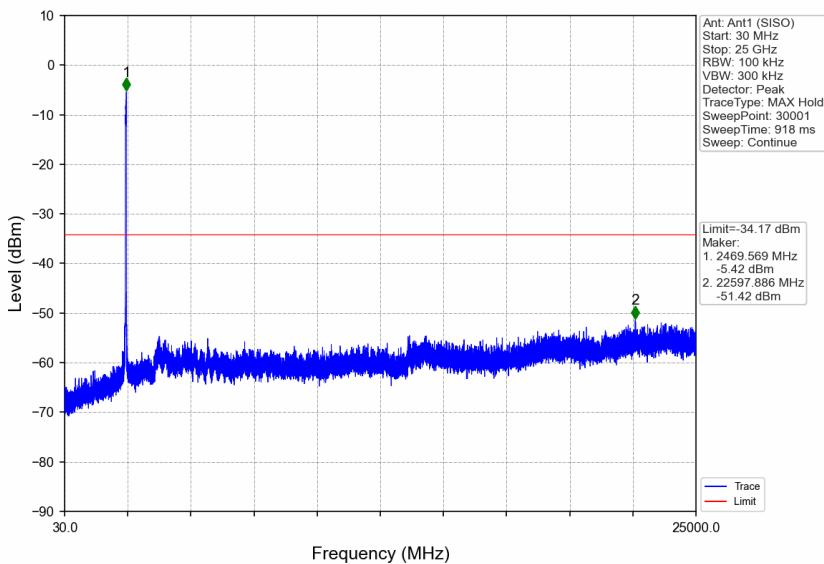
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802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



802.11n(HT40)_HCH_2452MHz_Ant1 (SISO)_NTNV



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