

10 Appendix

1. Duty Cycle

1.1 Test Result

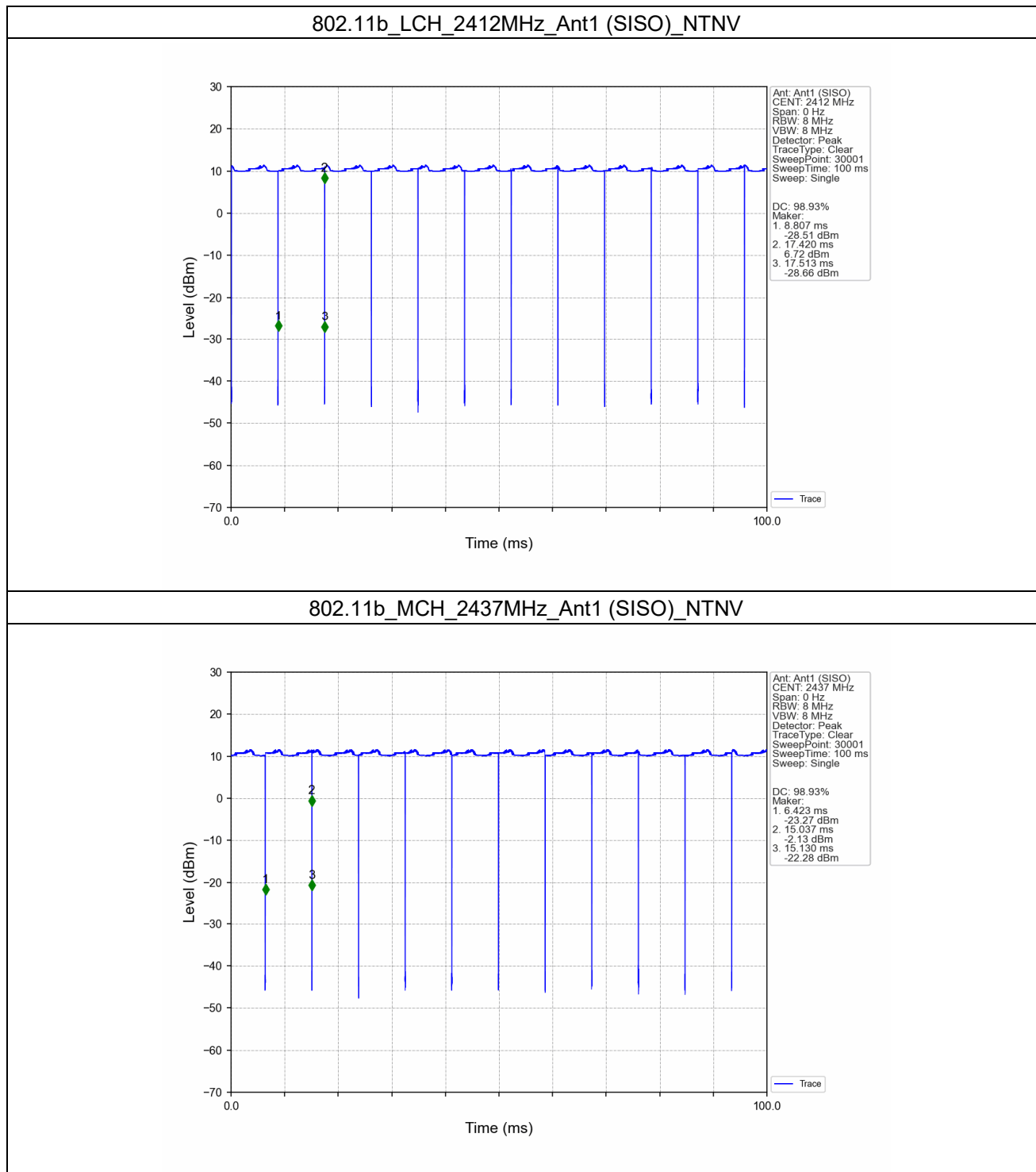
1.1.1 Ant1

| 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 | 8.613 | 8.706 | 98.93 | 0.05 | 0.04 |
| | | 2437 | 8.614 | 8.707 | 98.93 | 0.05 | 0.04 |
| | | 2462 | 8.616 | 8.820 | 97.69 | 0.10 | 1.27 |
| 802.11n (HT20) | SISO | 2412 | 0.689 | 0.790 | 87.22 | 0.59 | 0.03 |
| | | 2437 | 0.689 | 0.790 | 87.22 | 0.59 | 0.06 |
| | | 2462 | 0.689 | 0.789 | 87.33 | 0.59 | 0.06 |



1.2 Test Graph

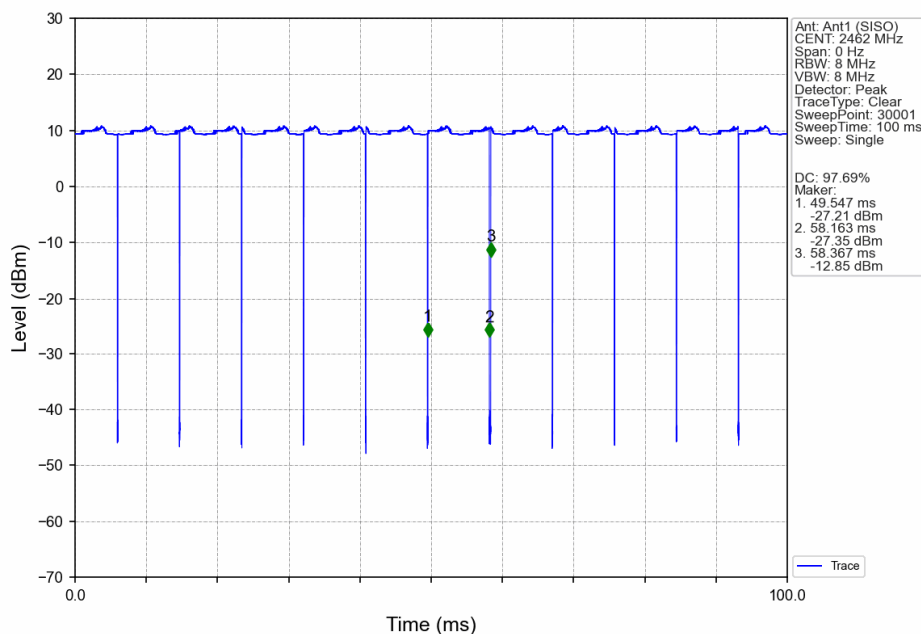
1.2.1 Ant1



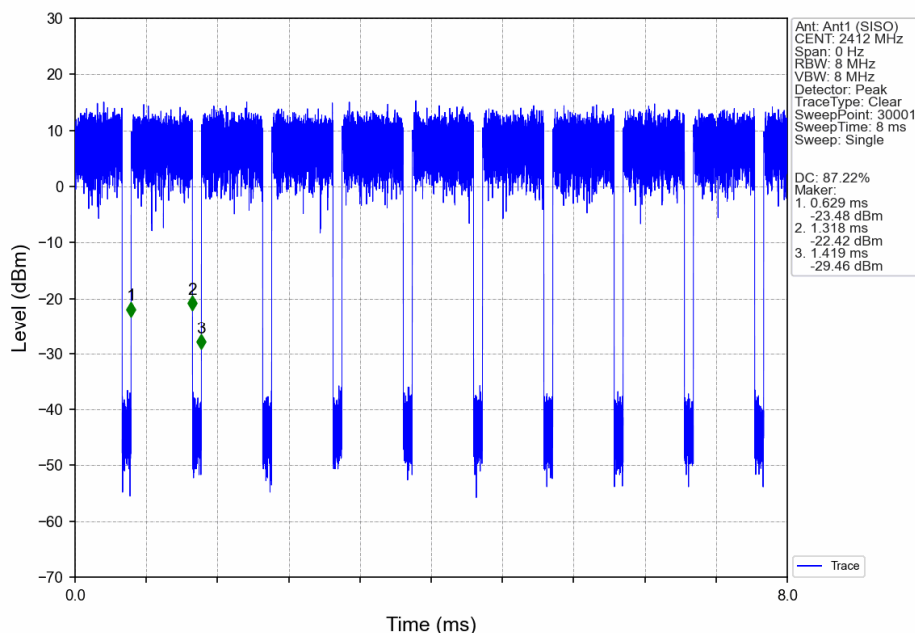
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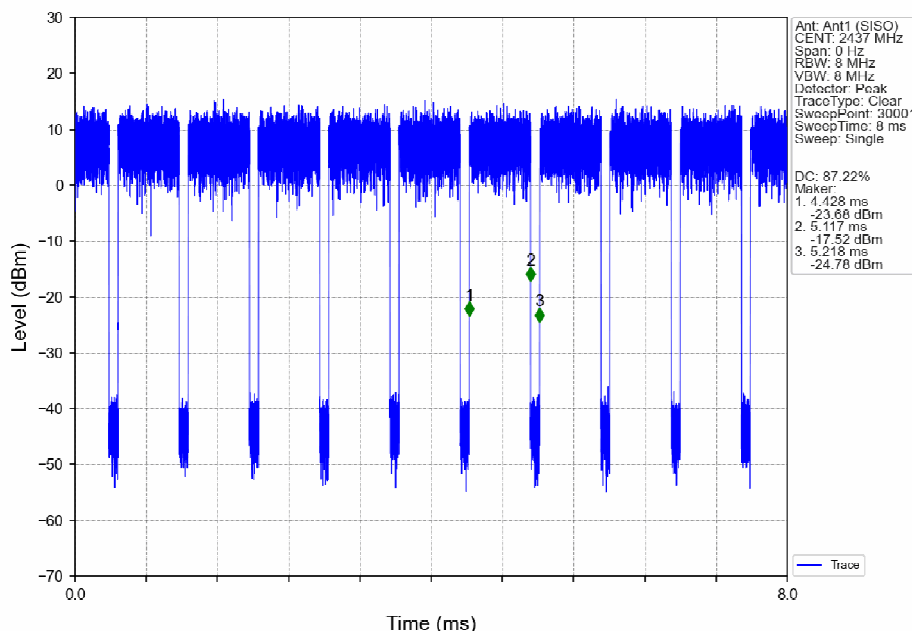
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



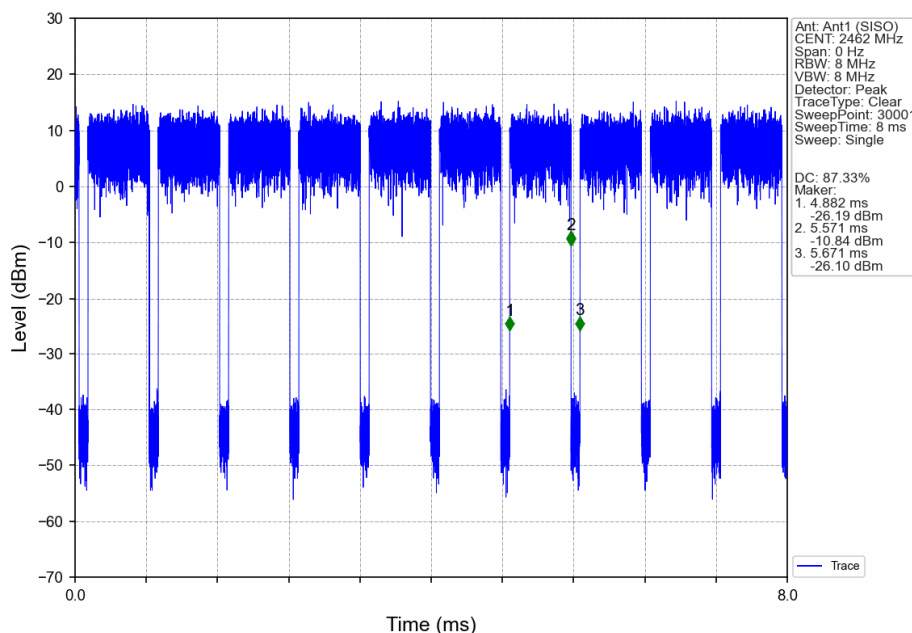
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



2. Bandwidth

2.1 Test Result

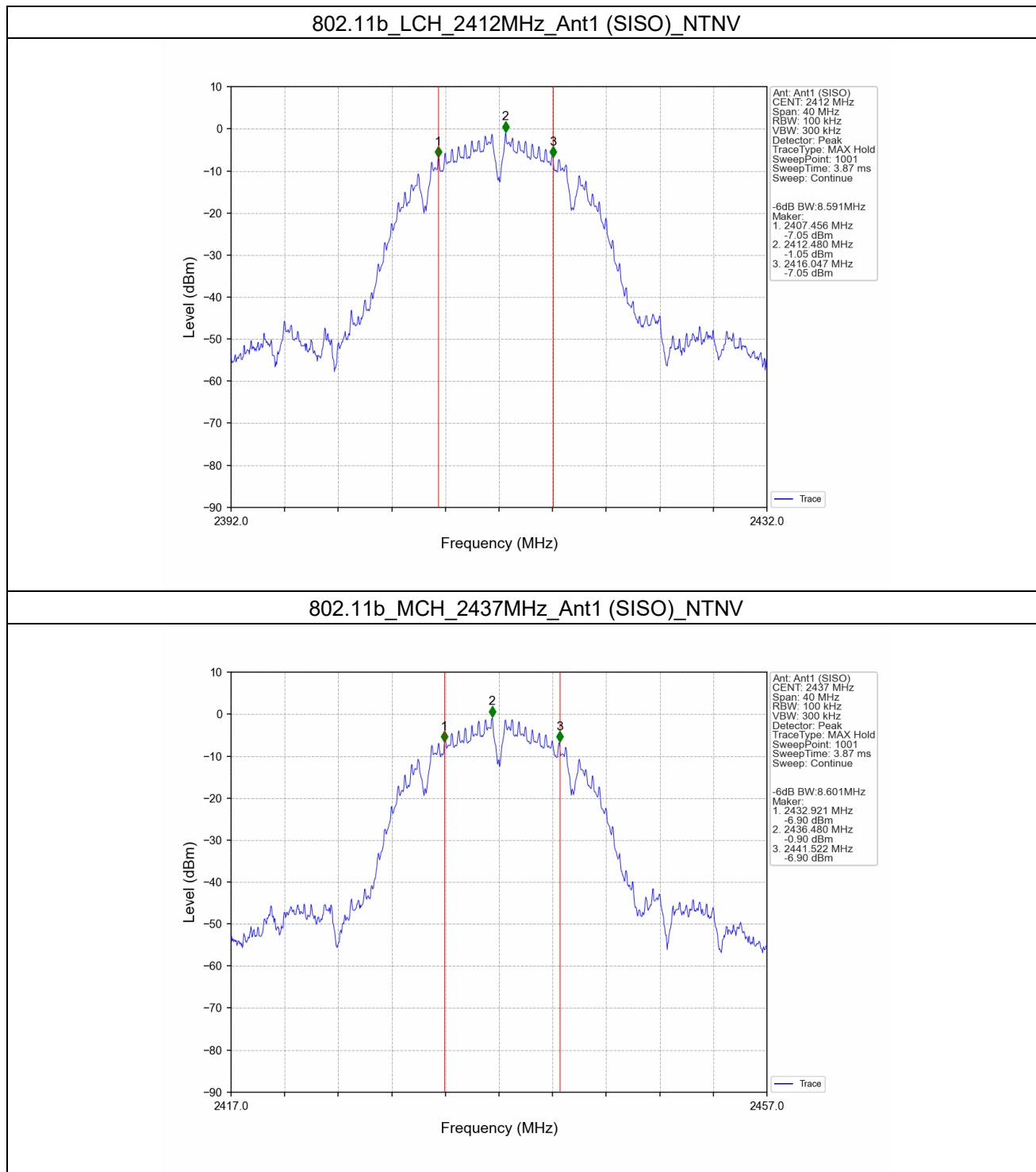
2.1.2 6dB BW

| Mode | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) | | Verdict |
|----------------|---------|-----------------|-----|---------------------|------------|---------|
| | | | | Result | Limit | |
| 802.11b | SISO | 2412 | 1 | 8.591 | ≥ 0.5 | Pass |
| | | 2437 | 1 | 8.601 | ≥ 0.5 | Pass |
| | | 2462 | 1 | 8.616 | ≥ 0.5 | Pass |
| 802.11n (HT20) | SISO | 2412 | 1 | 15.158 | ≥ 0.5 | Pass |
| | | 2437 | 1 | 15.166 | ≥ 0.5 | Pass |
| | | 2462 | 1 | 15.156 | ≥ 0.5 | Pass |



2.2 Test Graph

2.2.2 6dB BW



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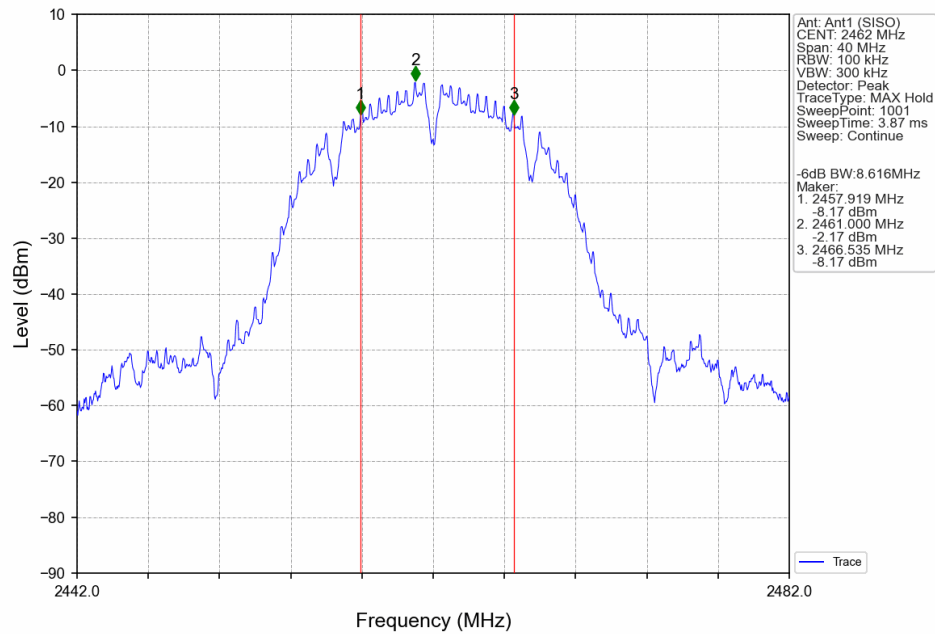
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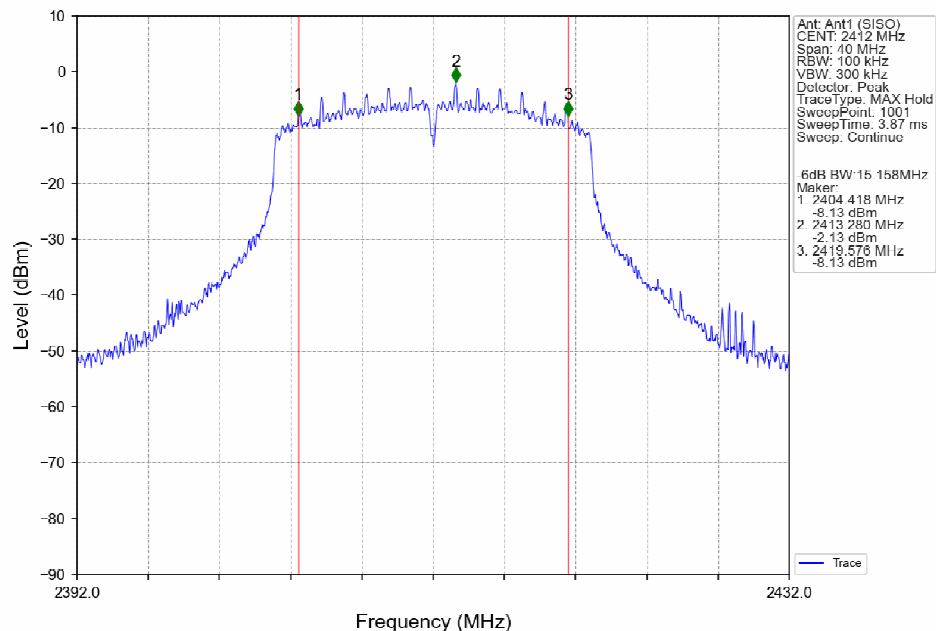
No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

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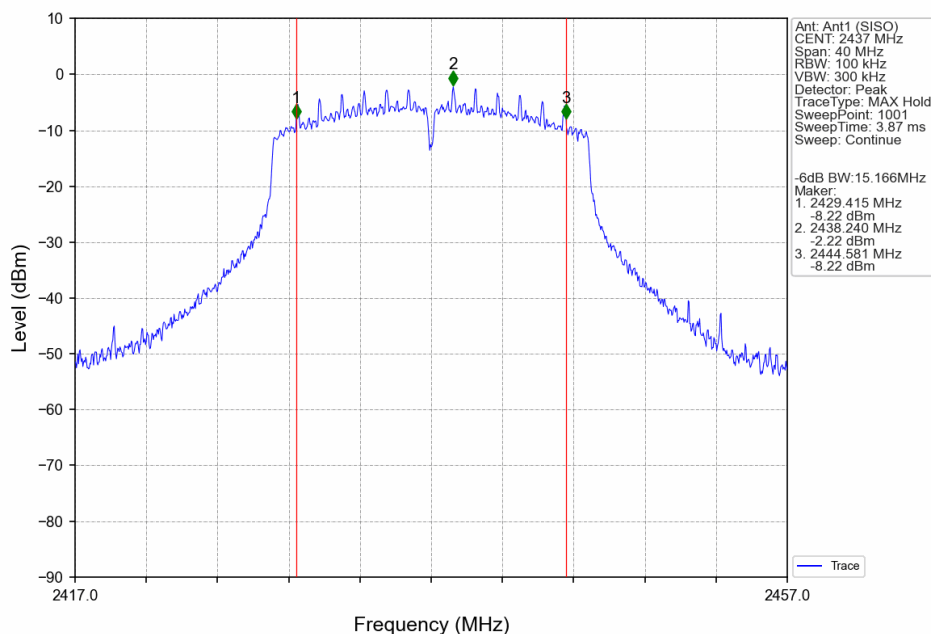
802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



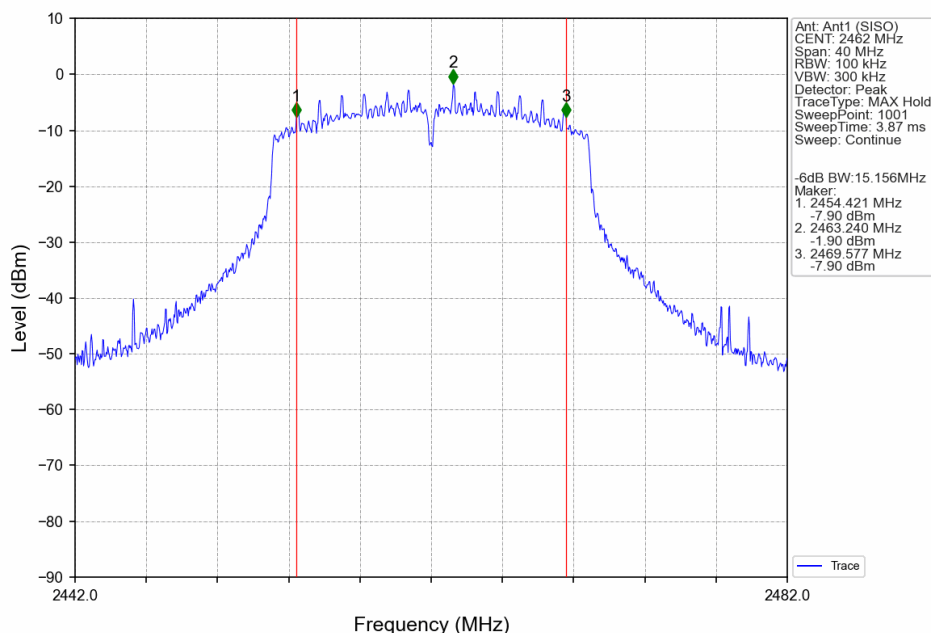
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

| Mode | TX Type | Frequency (MHz) | Maximum Peak Conducted Output Power (dBm) | | Verdict |
|----------------|---------|-----------------|---|-------|---------|
| | | | ANT1 | Limit | |
| 802.11b | SISO | 2412 | 9.12 | <=30 | Pass |
| | | 2437 | 9.33 | <=30 | Pass |
| | | 2462 | 8.43 | <=30 | Pass |
| 802.11n (HT20) | SISO | 2412 | 15.41 | <=30 | Pass |
| | | 2437 | 15.43 | <=30 | Pass |
| | | 2462 | 15.37 | <=30 | Pass |



4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

| Mode | TX Type | Frequency (MHz) | Maximum PSD (dBm/3kHz) | | Verdict |
|----------------|---------|-----------------|------------------------|-------|---------|
| | | | ANT1 | Limit | |
| 802.11b | SISO | 2412 | -14.79 | <=8 | Pass |
| | | 2437 | -15.09 | <=8 | Pass |
| | | 2462 | -16.52 | <=8 | Pass |
| 802.11n (HT20) | SISO | 2412 | -17.43 | <=8 | Pass |
| | | 2437 | -16.90 | <=8 | Pass |
| | | 2462 | -17.81 | <=8 | Pass |



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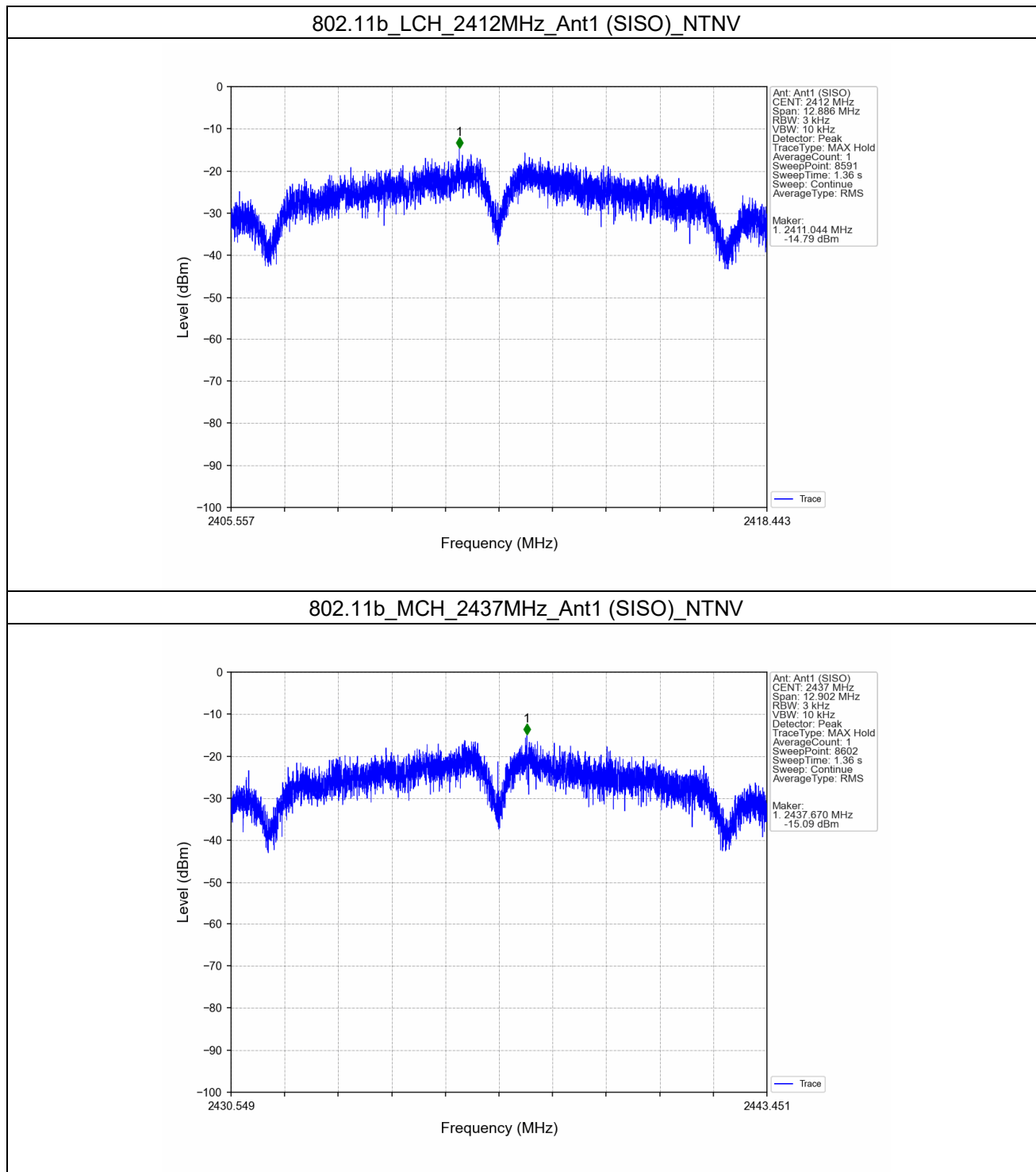
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4.2 Test Graph

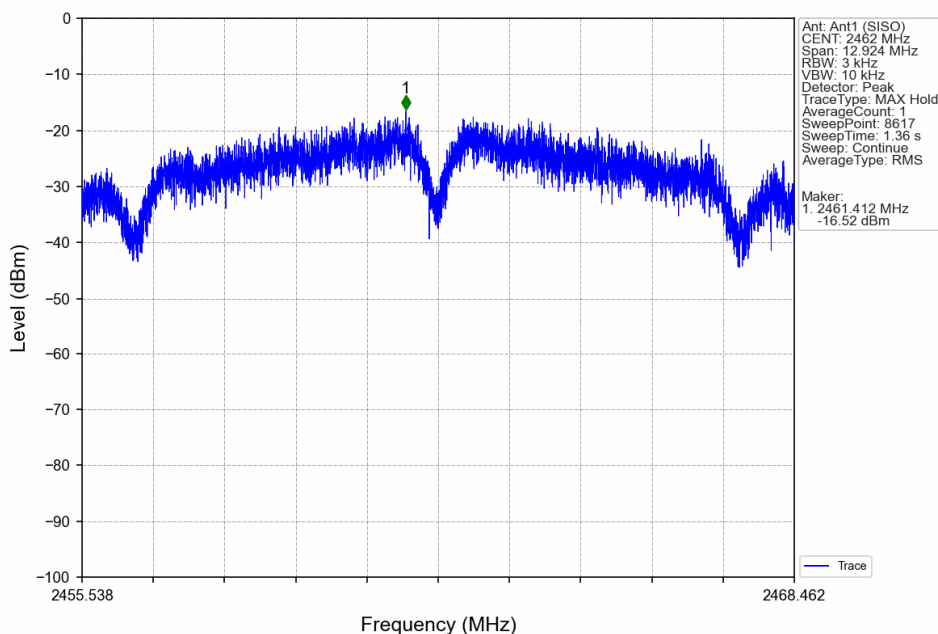
4.2.1 PSD



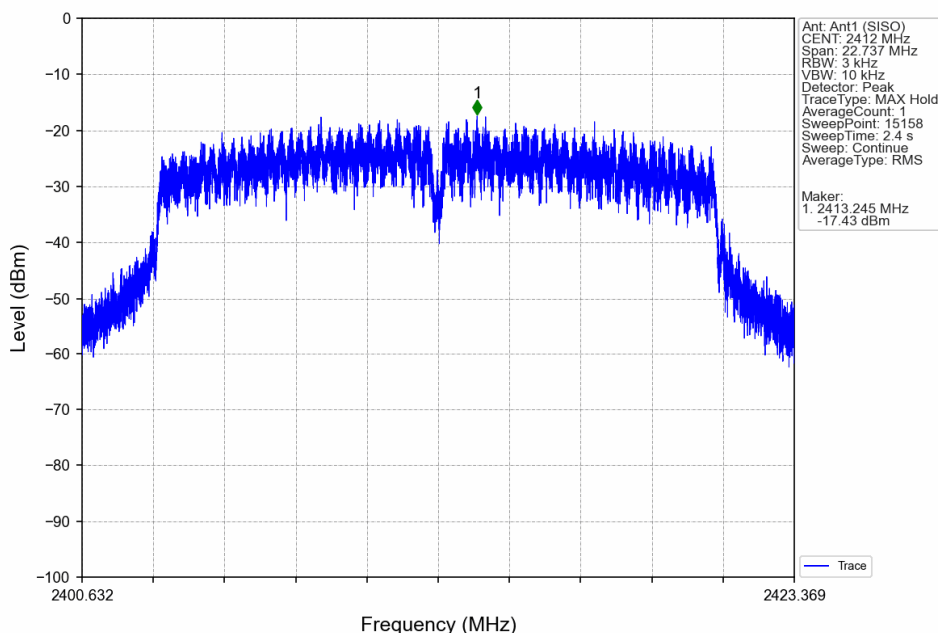
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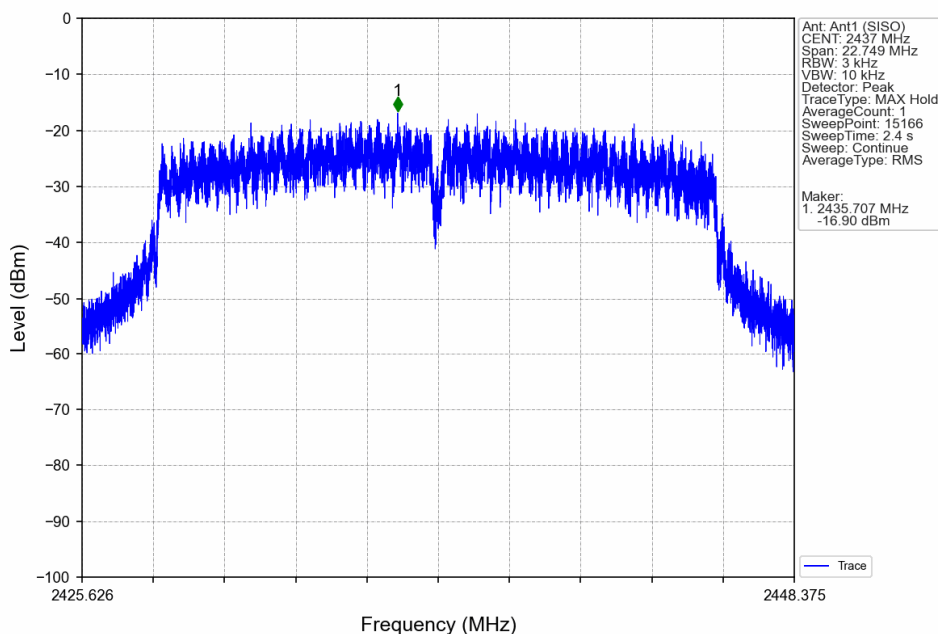
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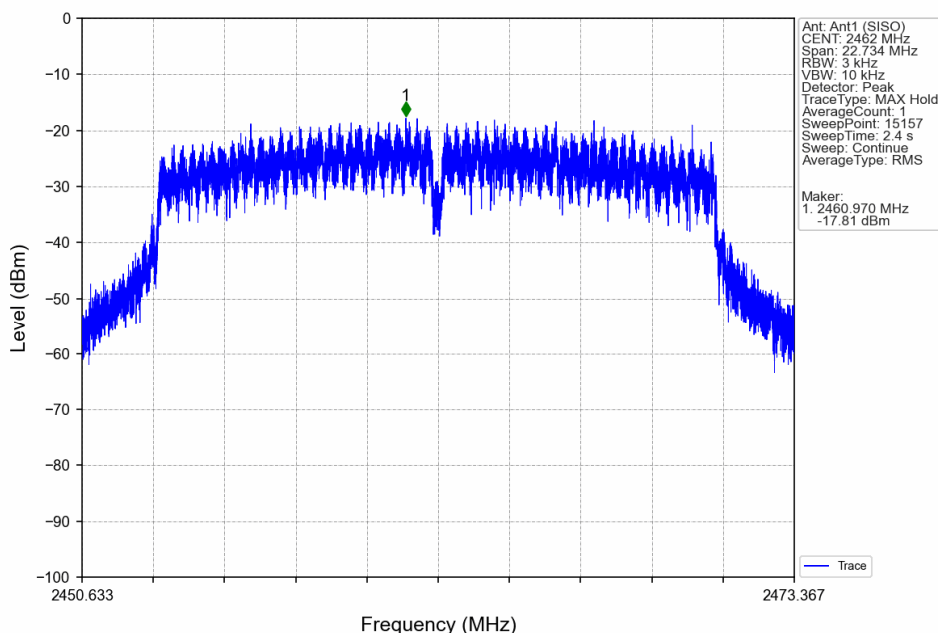
802.11n(HT20)_LCH_2412MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_MCH_2437MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

| Mode | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) |
|----------------|---------|-----------------|-----|--------------------------|
| 802.11b | SISO | 2412 | 1 | -1.03 |
| | | 2437 | 1 | -1.01 |
| | | 2462 | 1 | -1.63 |
| 802.11n (HT20) | SISO | 2412 | 1 | -1.99 |
| | | 2437 | 1 | -2.13 |
| | | 2462 | 1 | -1.94 |

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.

5.1.2 CSE and Band Edges

| Mode | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|----------------|---------|-----------------|-----|--------------------------|-------------|---------|
| 802.11b | SISO | 2412 | 1 | -1.01 | -21.01 | Pass |
| | | 2437 | 1 | -1.01 | -21.01 | Pass |
| | | 2462 | 1 | -1.01 | -21.01 | Pass |
| 802.11n (HT20) | SISO | 2412 | 1 | -1.94 | -21.94 | Pass |
| | | 2437 | 1 | -1.94 | -21.94 | Pass |
| | | 2462 | 1 | -1.94 | -21.94 | 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.

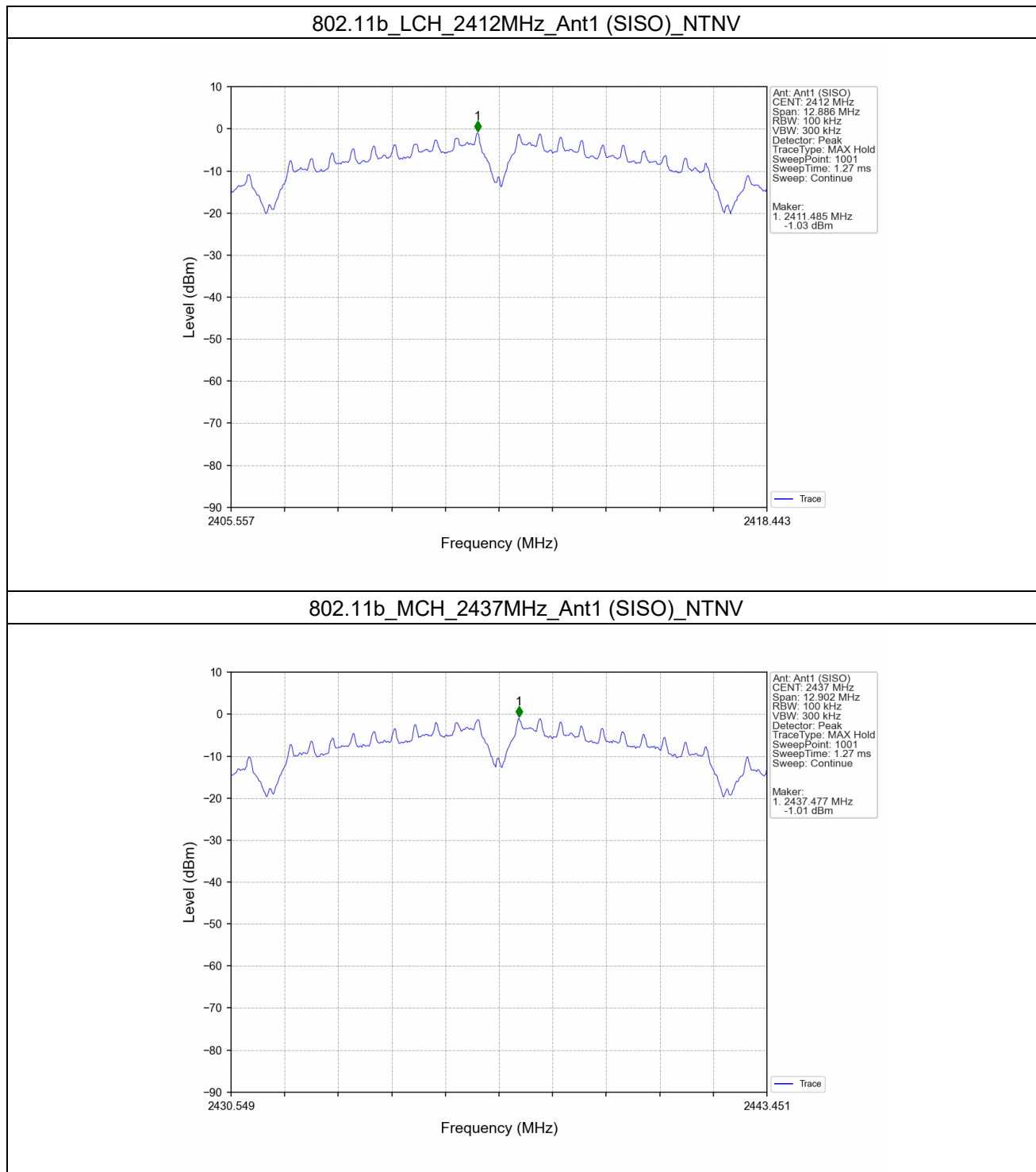


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5.2 Test Graph

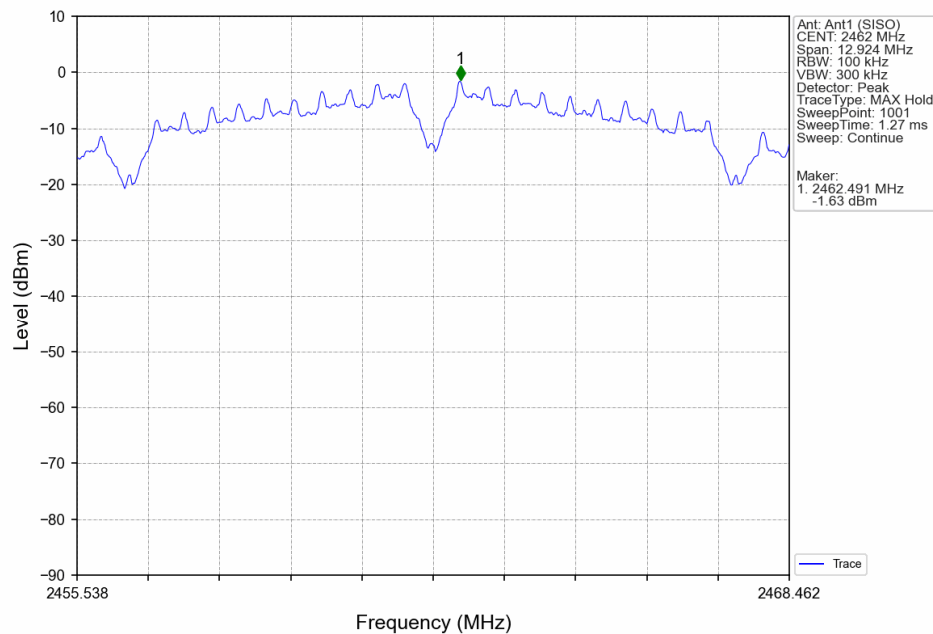
5.2.1 Ref



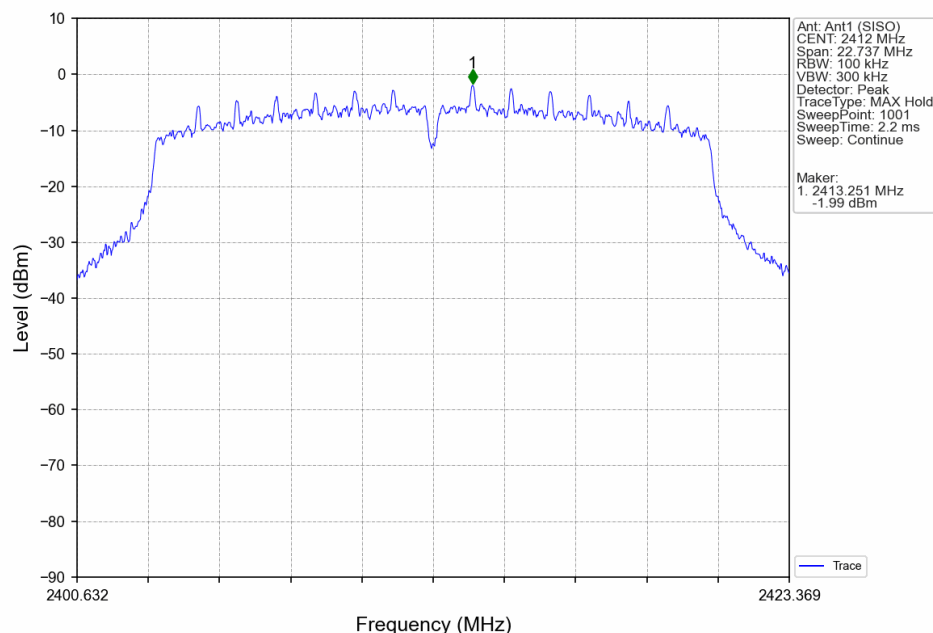
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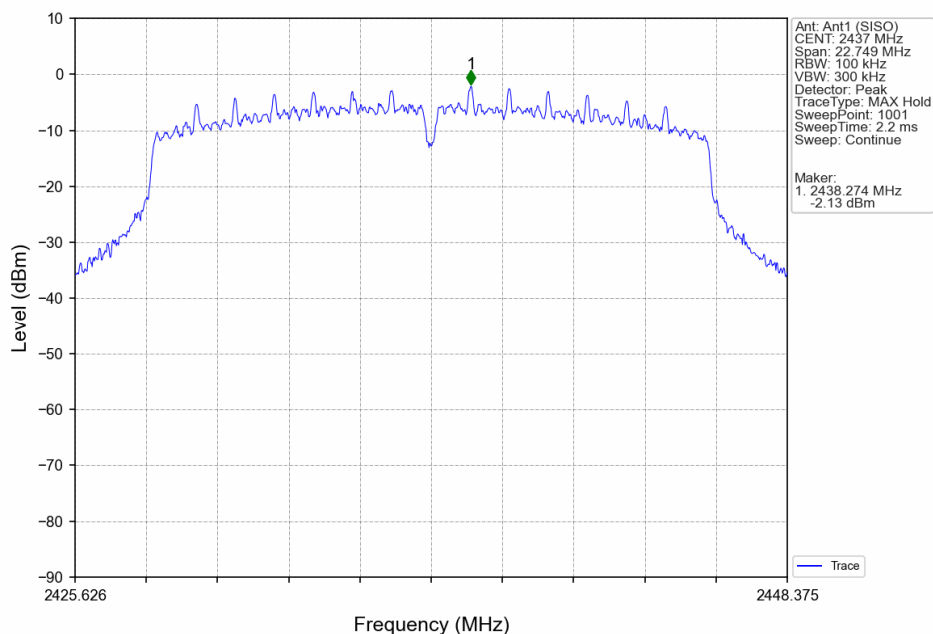
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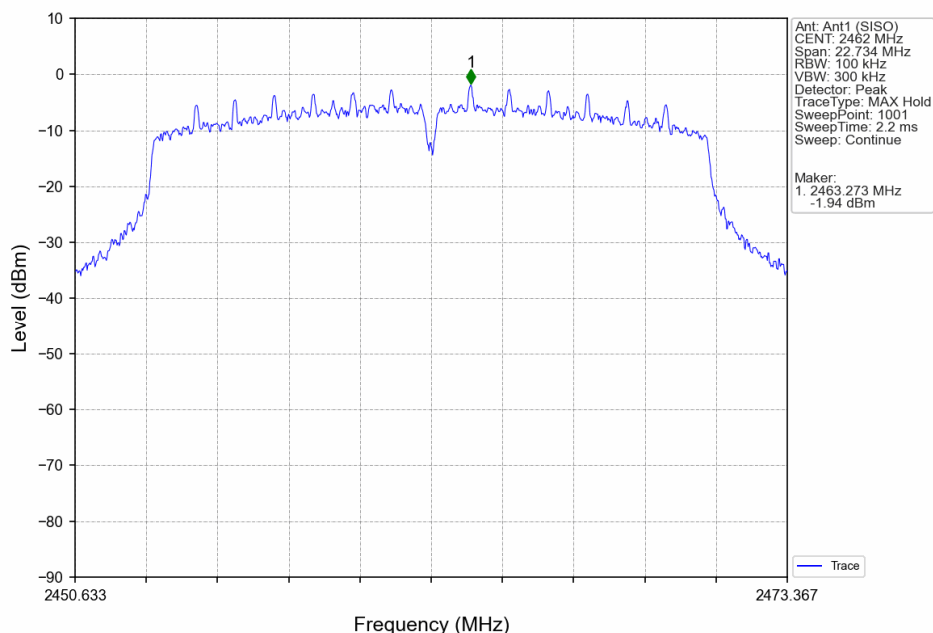
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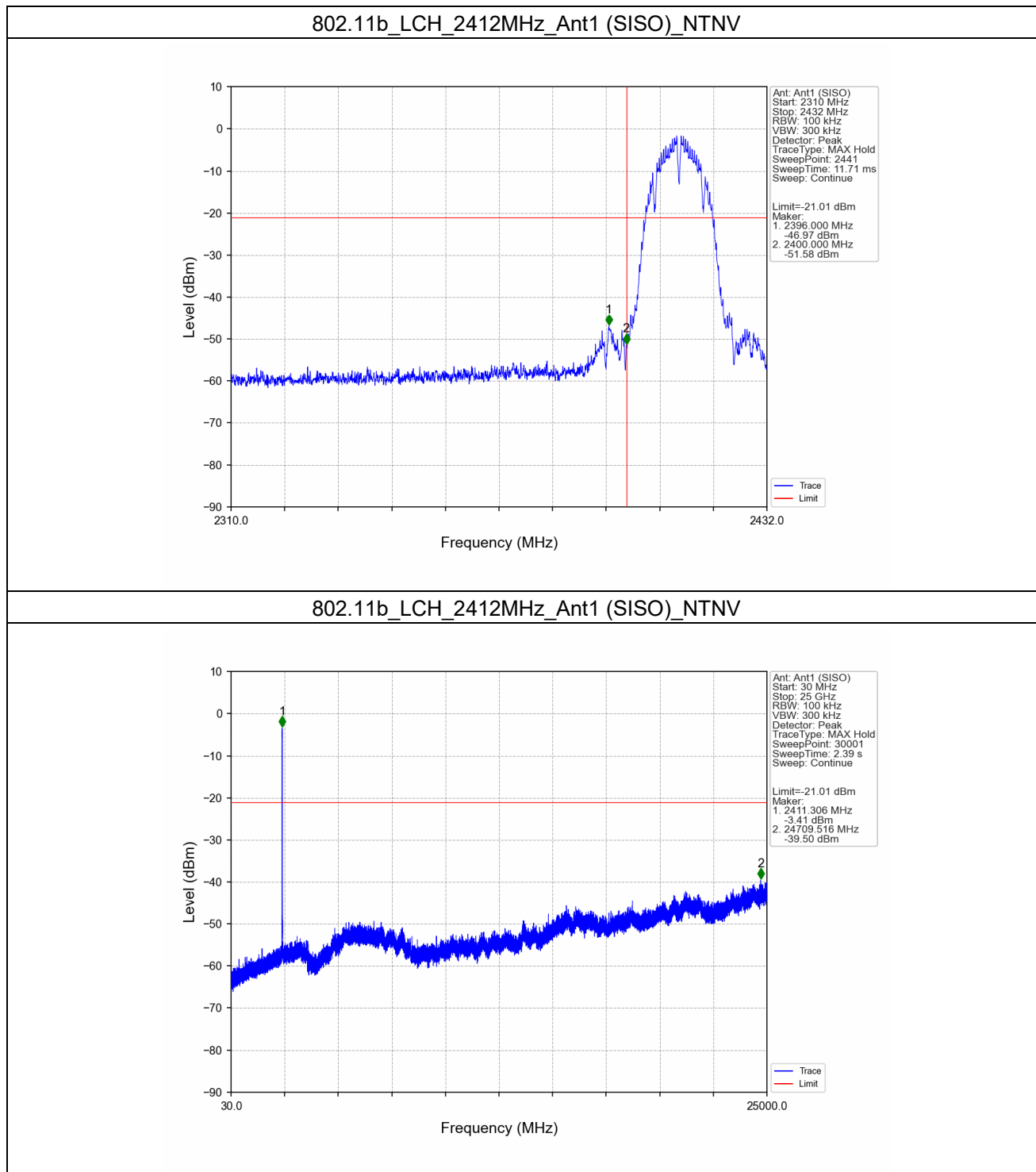
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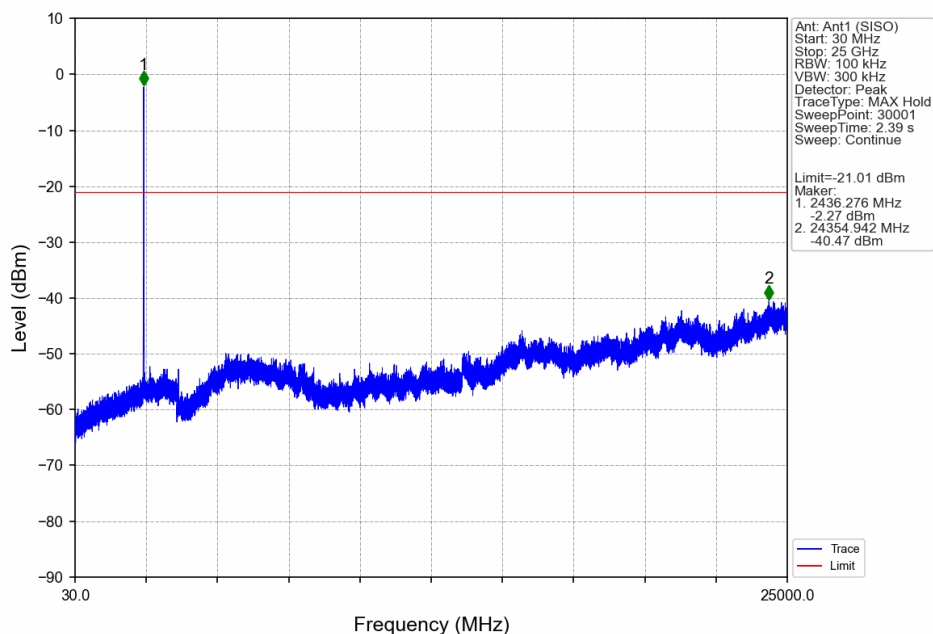
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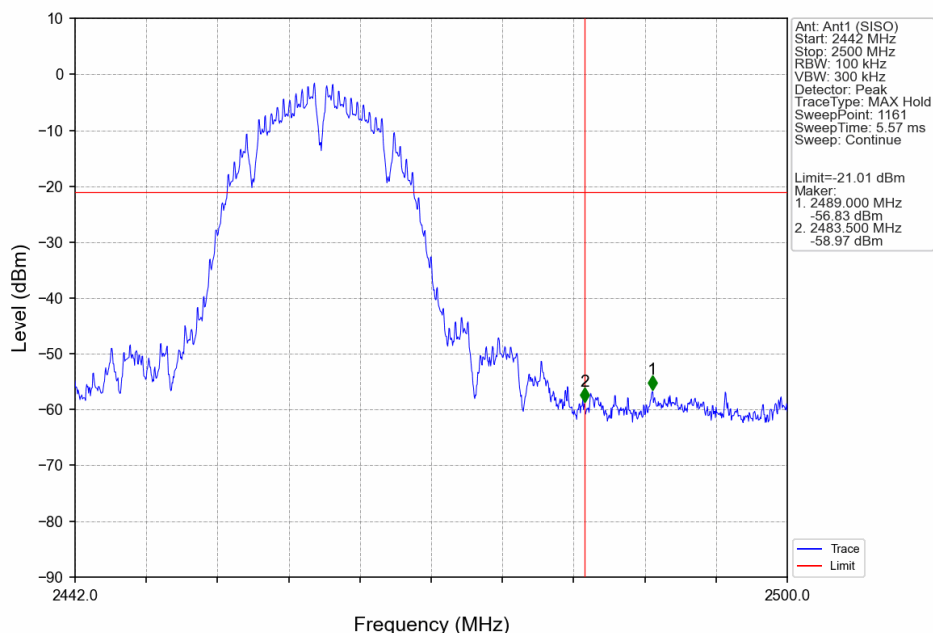
5.2.2 CSE and Band Edges



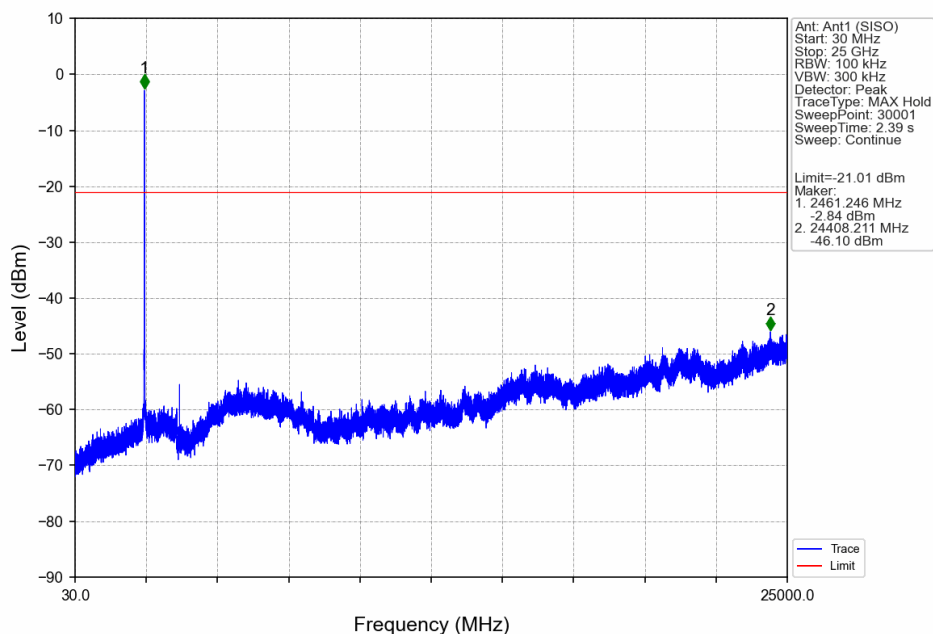
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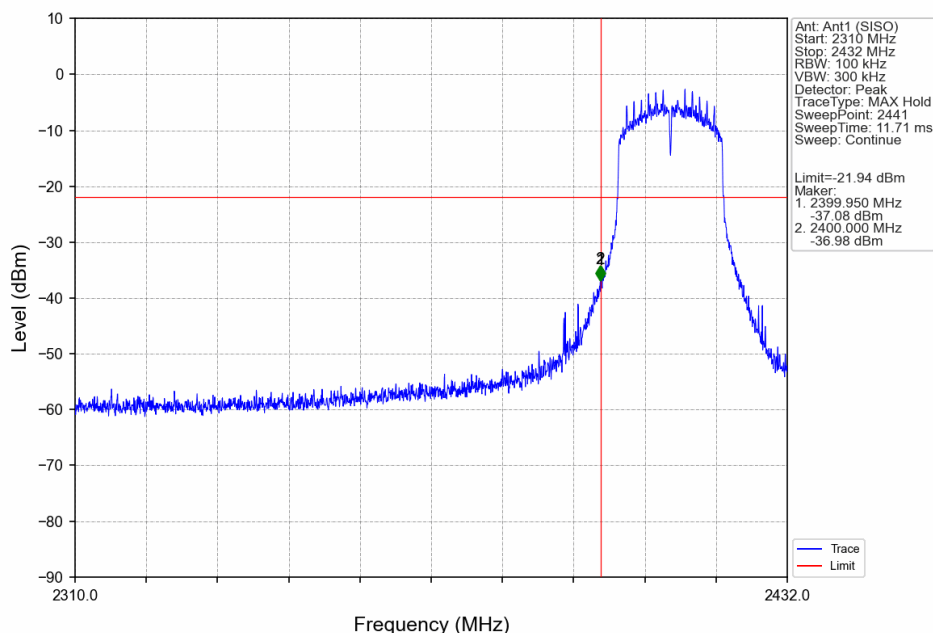
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802.11b_HCH_2462MHz_Ant1 (SISO)_NTNV



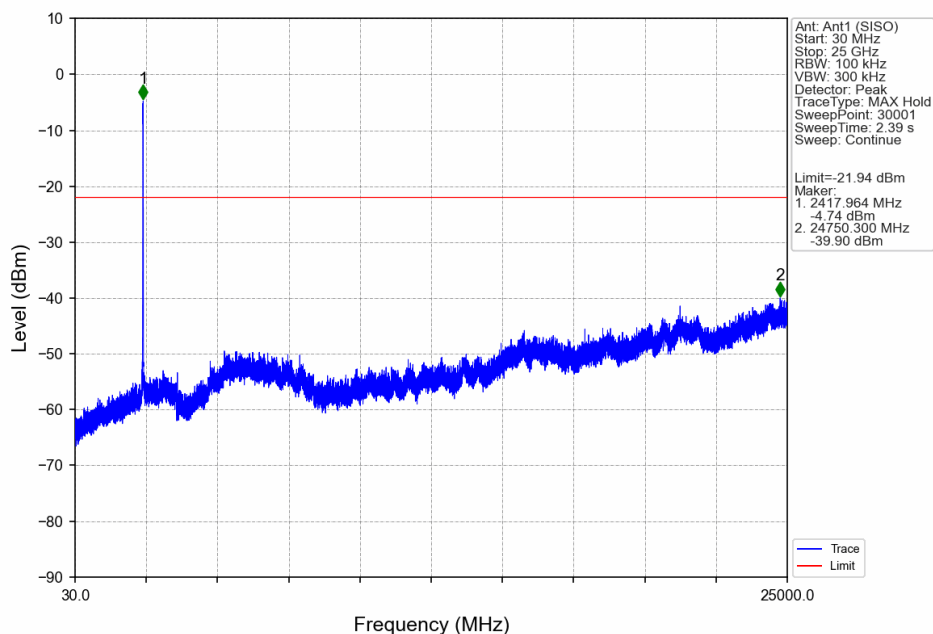
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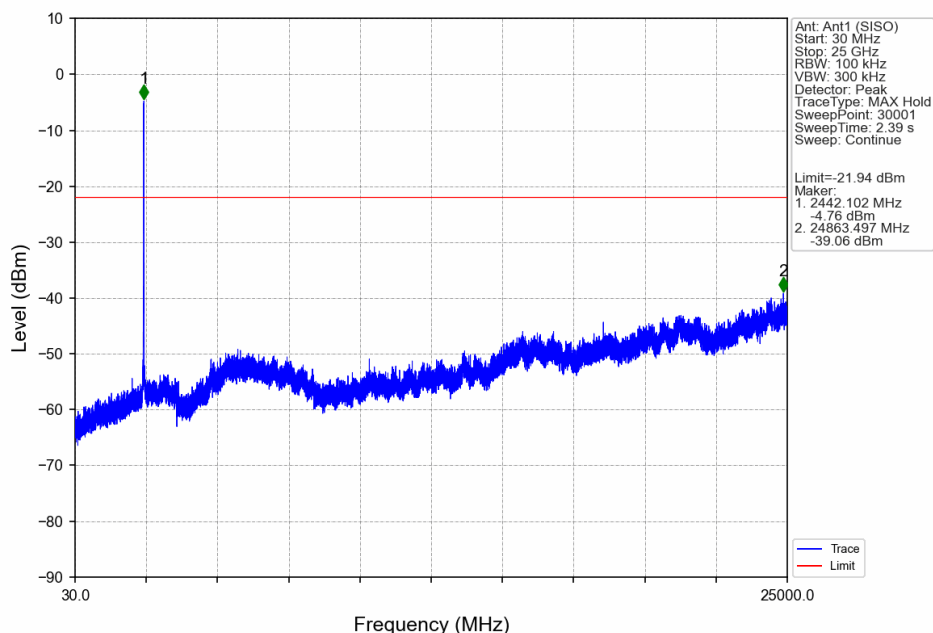
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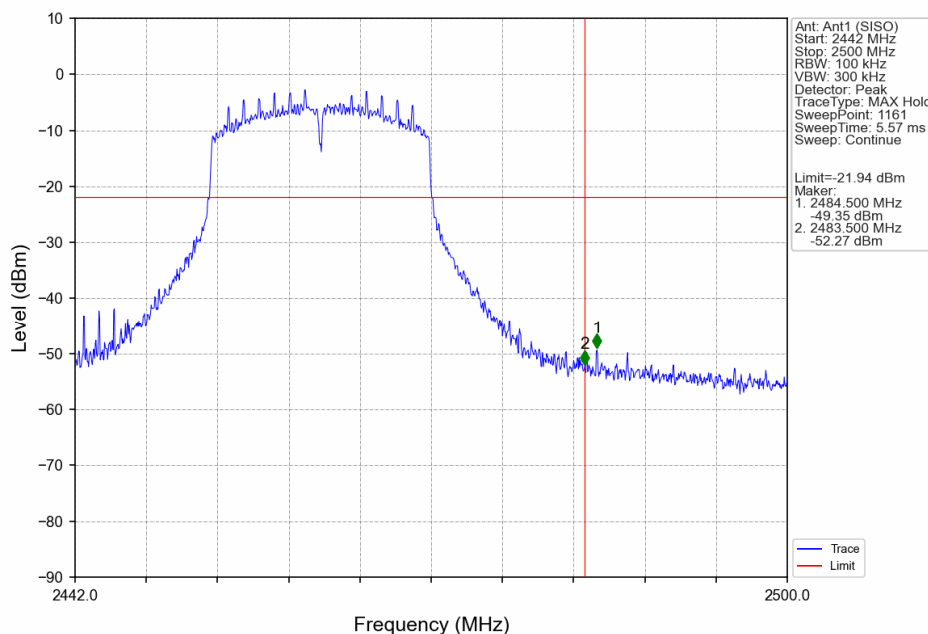
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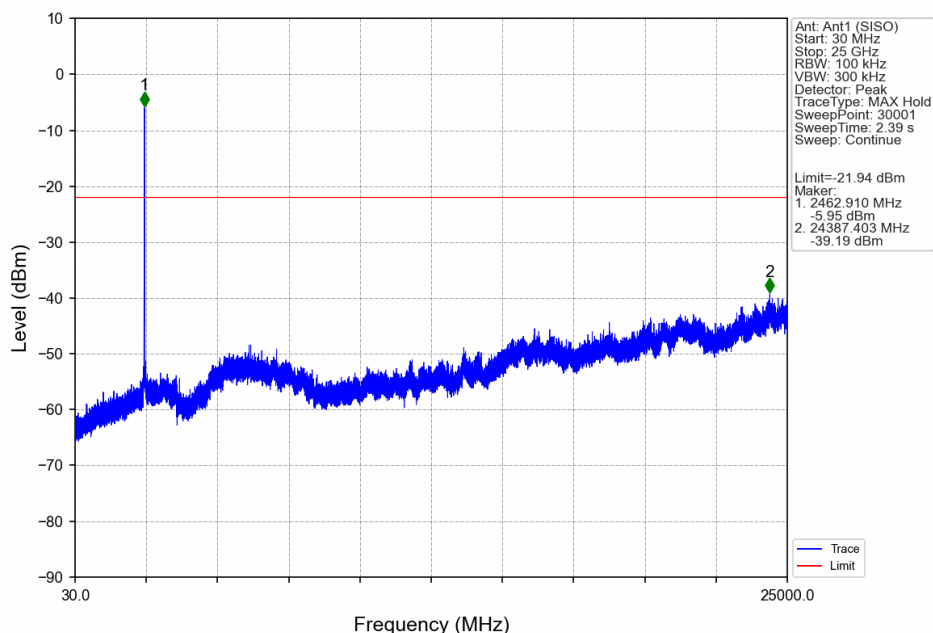
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802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



802.11n(HT20)_HCH_2462MHz_Ant1 (SISO)_NTNV



- End of the Report -

