

## Appendix A for KSCR210900010901

## 1. Duty Cycle

## 1.1 Ant1

## 1.1.1 Test Result

| Ant1           |         |                 |                      |             |                |                                   |                       |
|----------------|---------|-----------------|----------------------|-------------|----------------|-----------------------------------|-----------------------|
| Mode           | TX Type | Frequency (MHz) | T <sub>on</sub> (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| 802.11b        | SISO    | 2412            | 100.000              | 100.000     | 100.00         | 0.00                              | 0.00                  |
|                |         | 2437            | 100.000              | 100.000     | 100.00         | 0.00                              | 0.00                  |
|                |         | 2462            | 100.000              | 100.000     | 100.00         | 0.00                              | 0.00                  |
| 802.11g        | SISO    | 2412            | 100.000              | 100.000     | 100.00         | 0.00                              | 0.00                  |
|                |         | 2437            | 100.000              | 100.000     | 100.00         | 0.00                              | 0.00                  |
|                |         | 2462            | 100.000              | 100.000     | 100.00         | 0.00                              | 0.00                  |
| 802.11n (HT20) | SISO    | 2412            | 100.000              | 100.000     | 100.00         | 0.00                              | 0.00                  |
|                |         | 2437            | 100.000              | 100.000     | 100.00         | 0.00                              | 0.00                  |
|                |         | 2462            | 100.000              | 100.000     | 100.00         | 0.00                              | 0.00                  |
| 802.11n (HT40) | SISO    | 2422            | 100.000              | 100.000     | 100.00         | 0.00                              | 0.00                  |
|                |         | 2437            | 100.000              | 100.000     | 100.00         | 0.00                              | 0.00                  |
|                |         | 2452            | 100.000              | 100.000     | 100.00         | 0.00                              | 0.00                  |



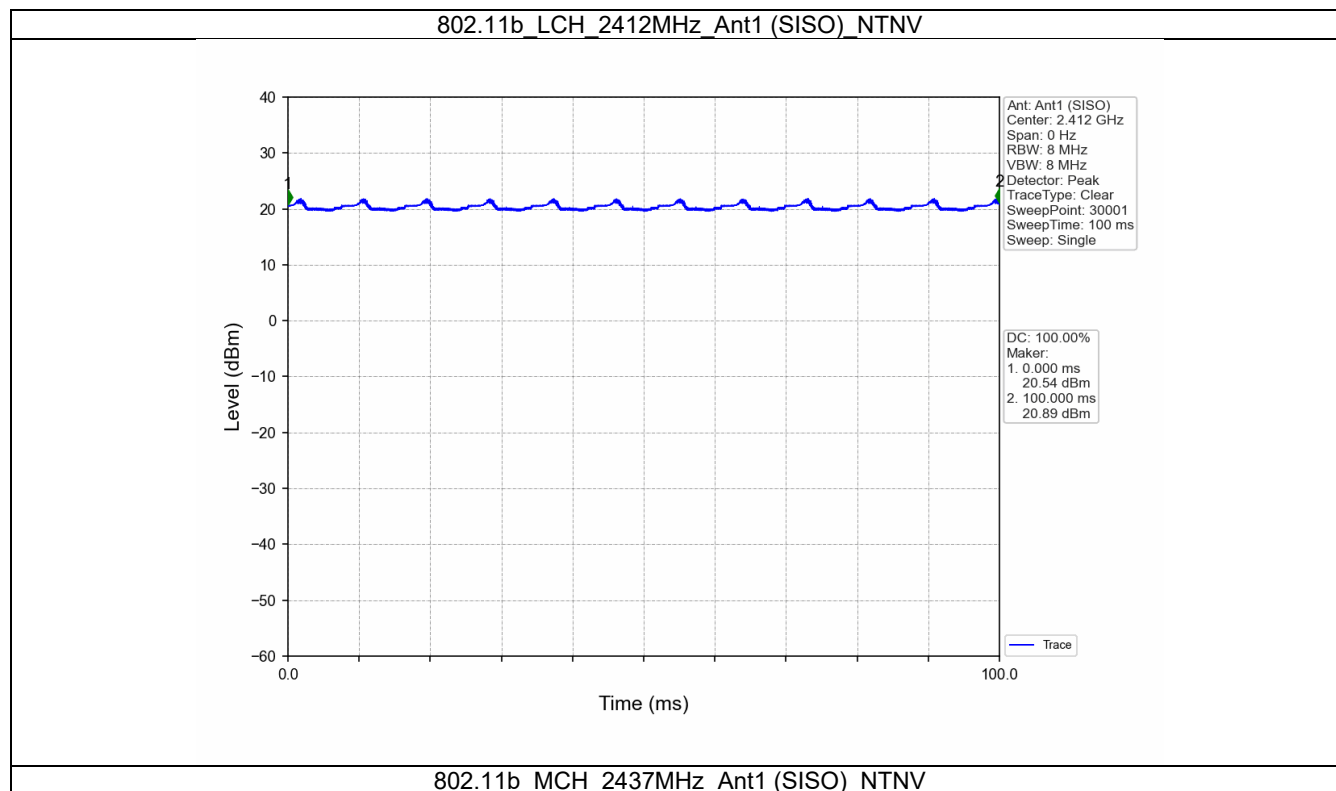
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## 1.1.2 Test Graph



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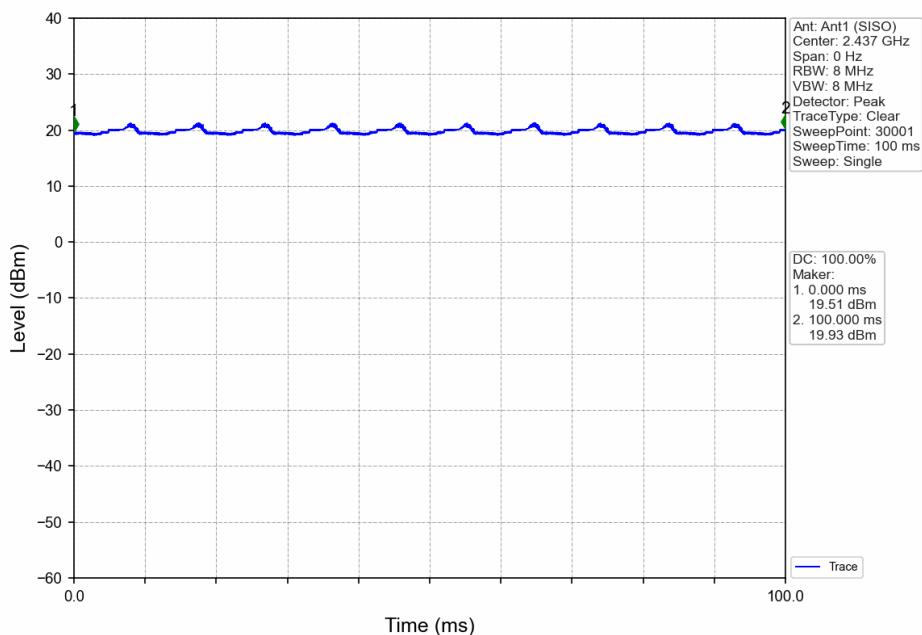
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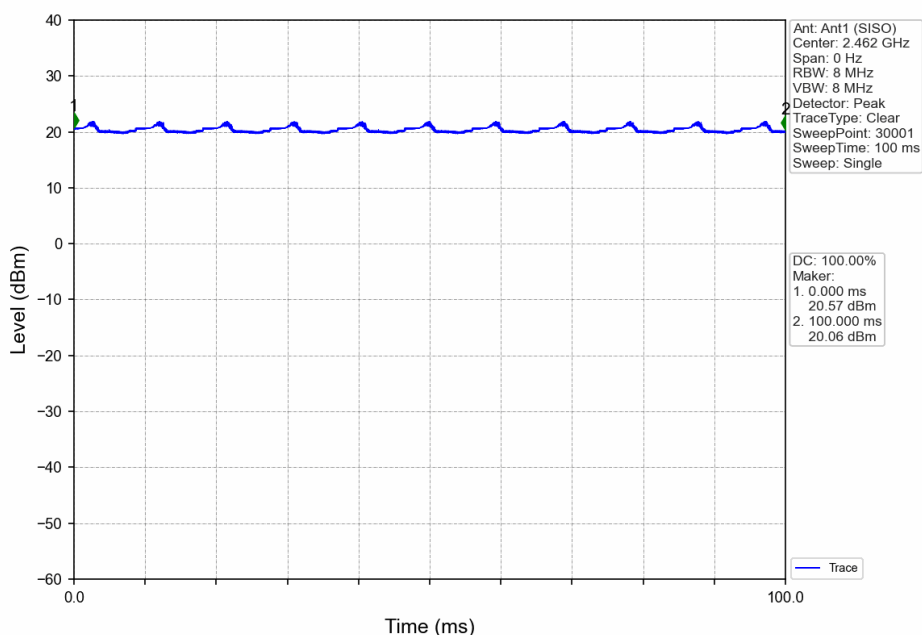
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## 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



## 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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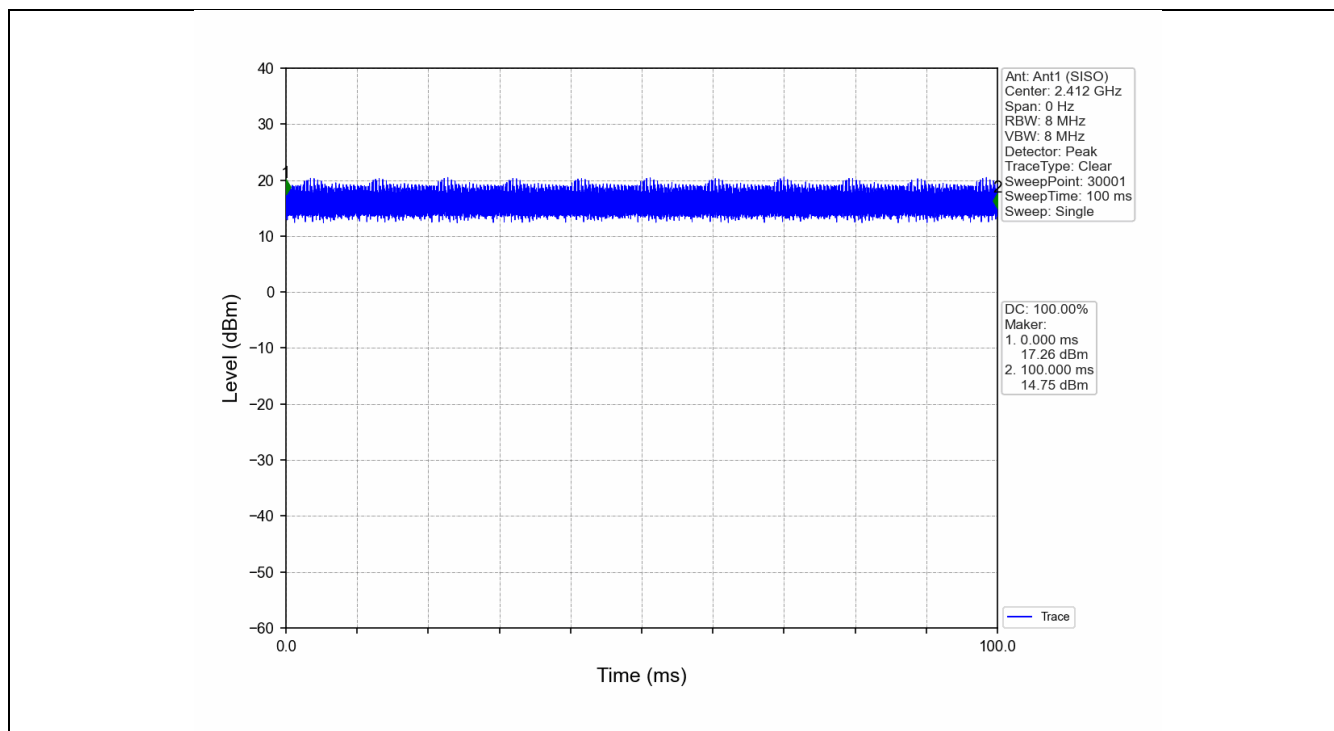
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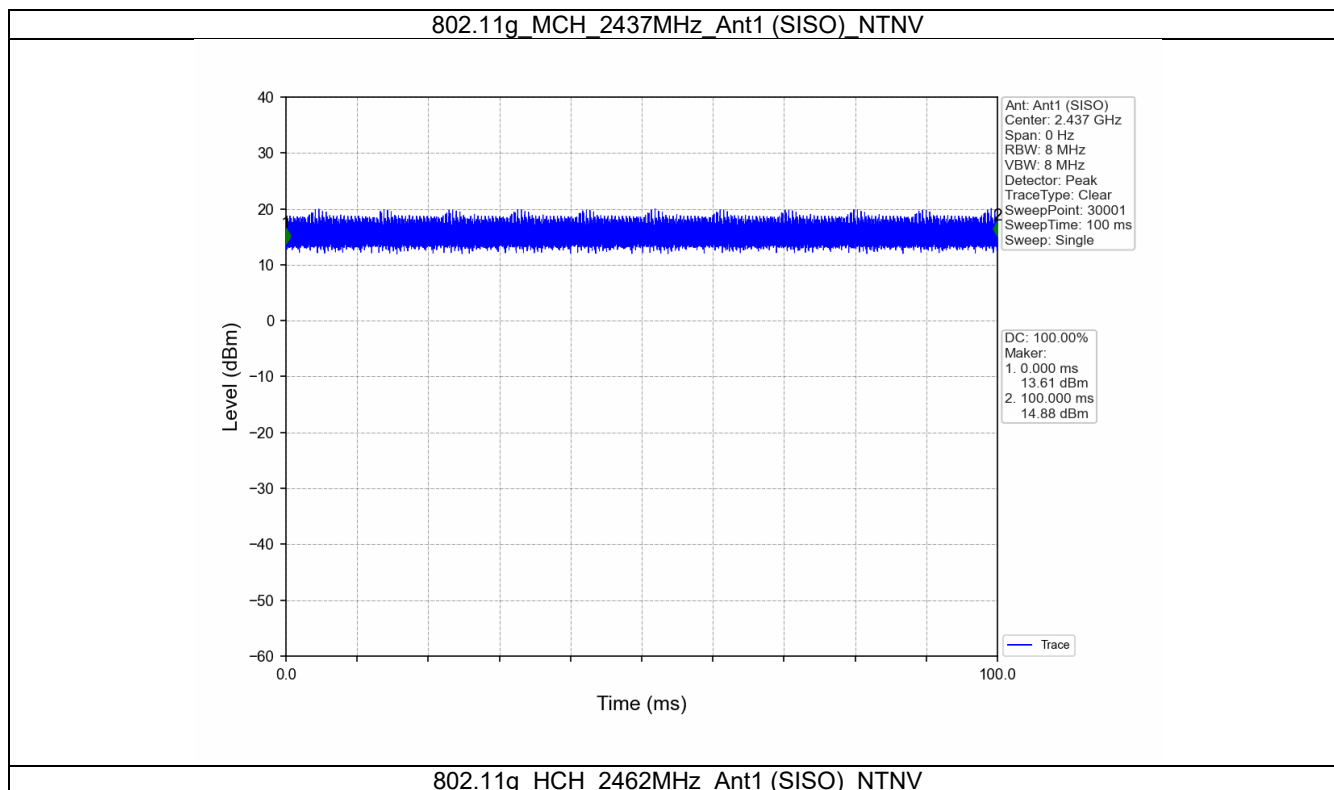
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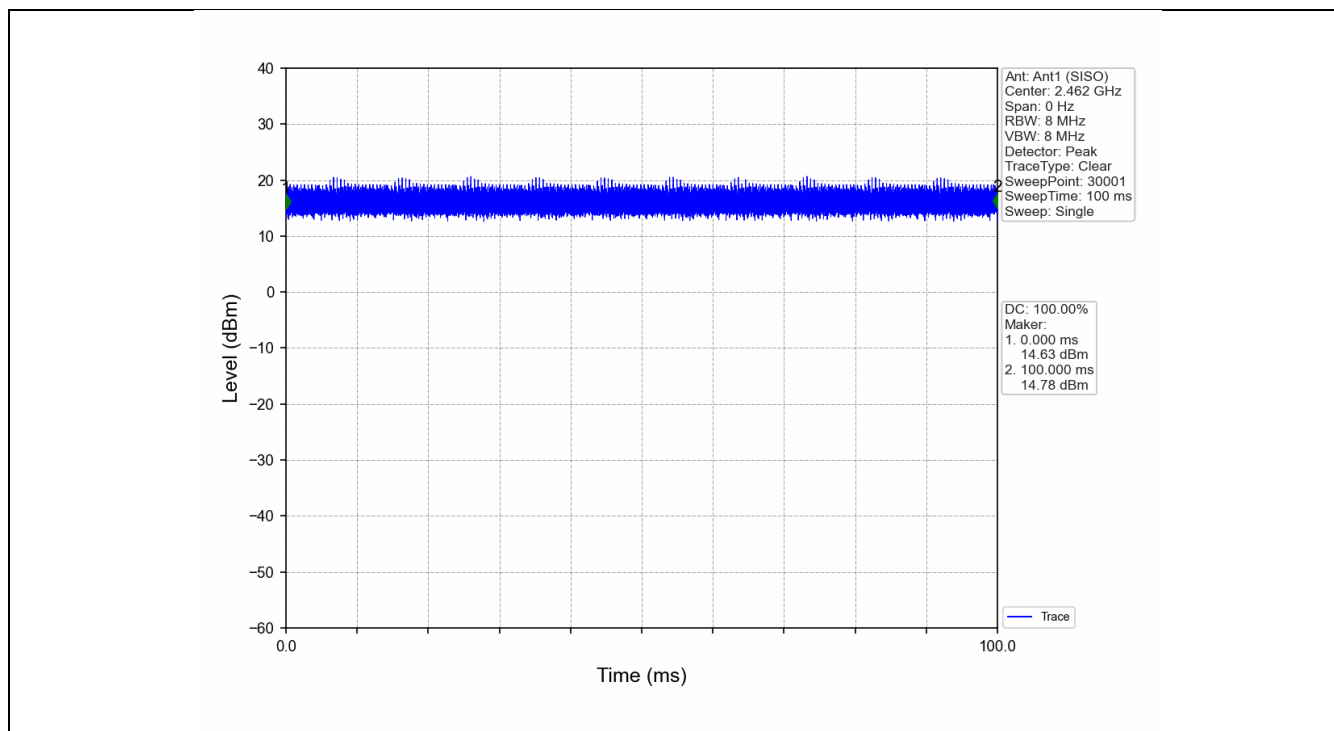
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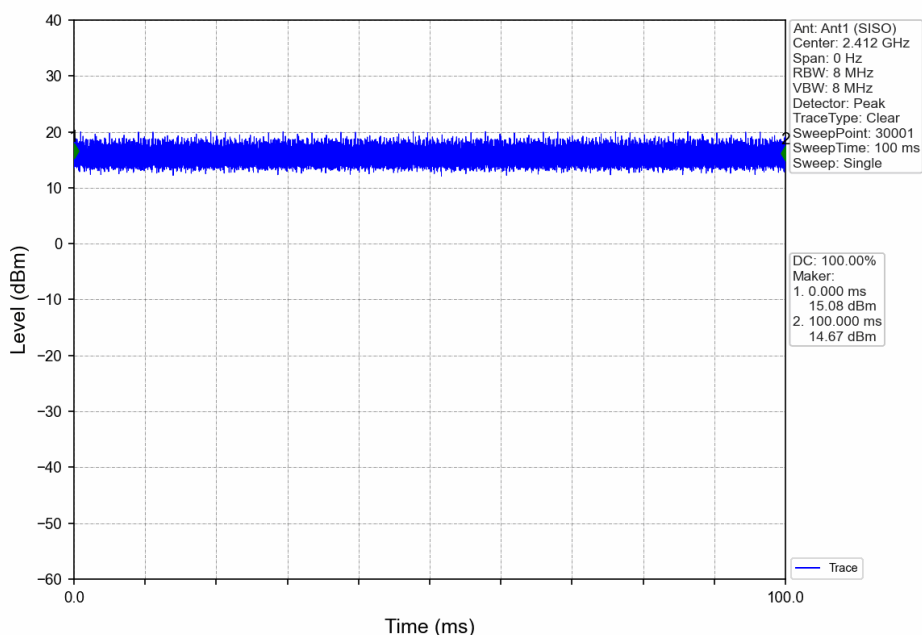
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

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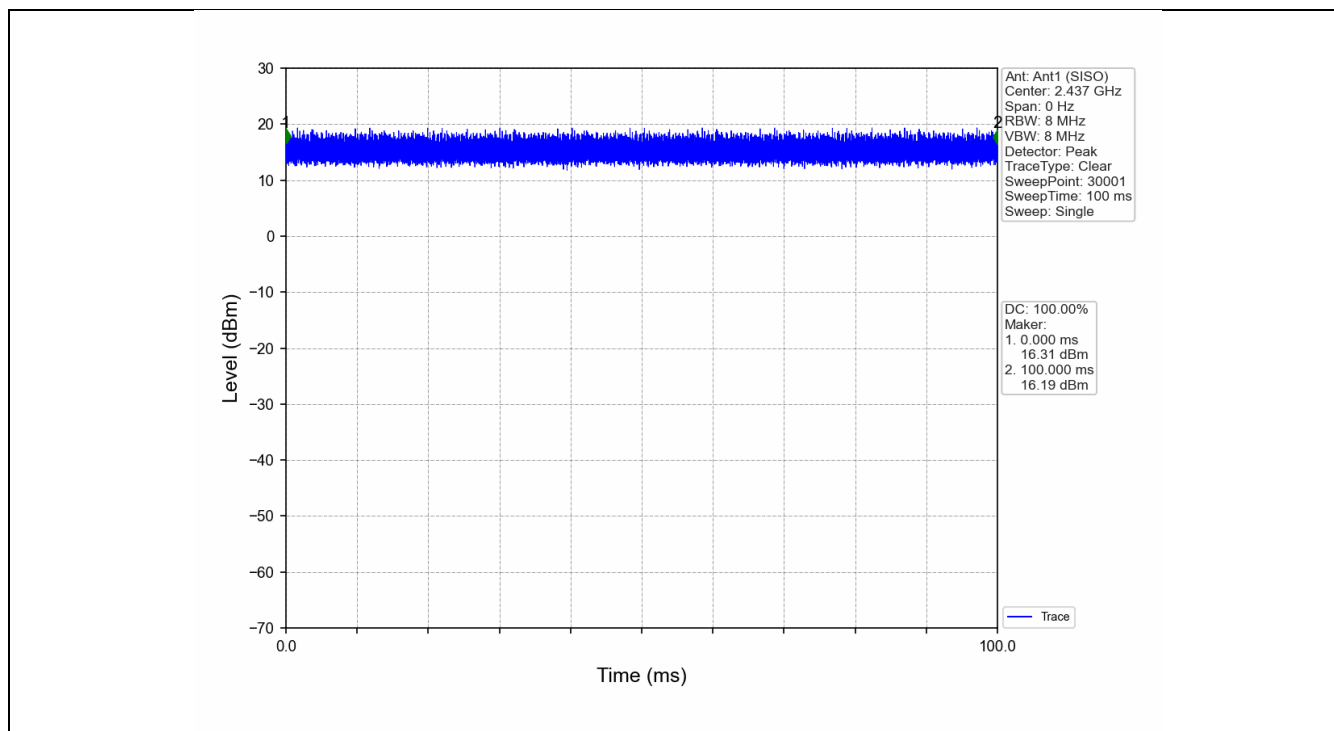
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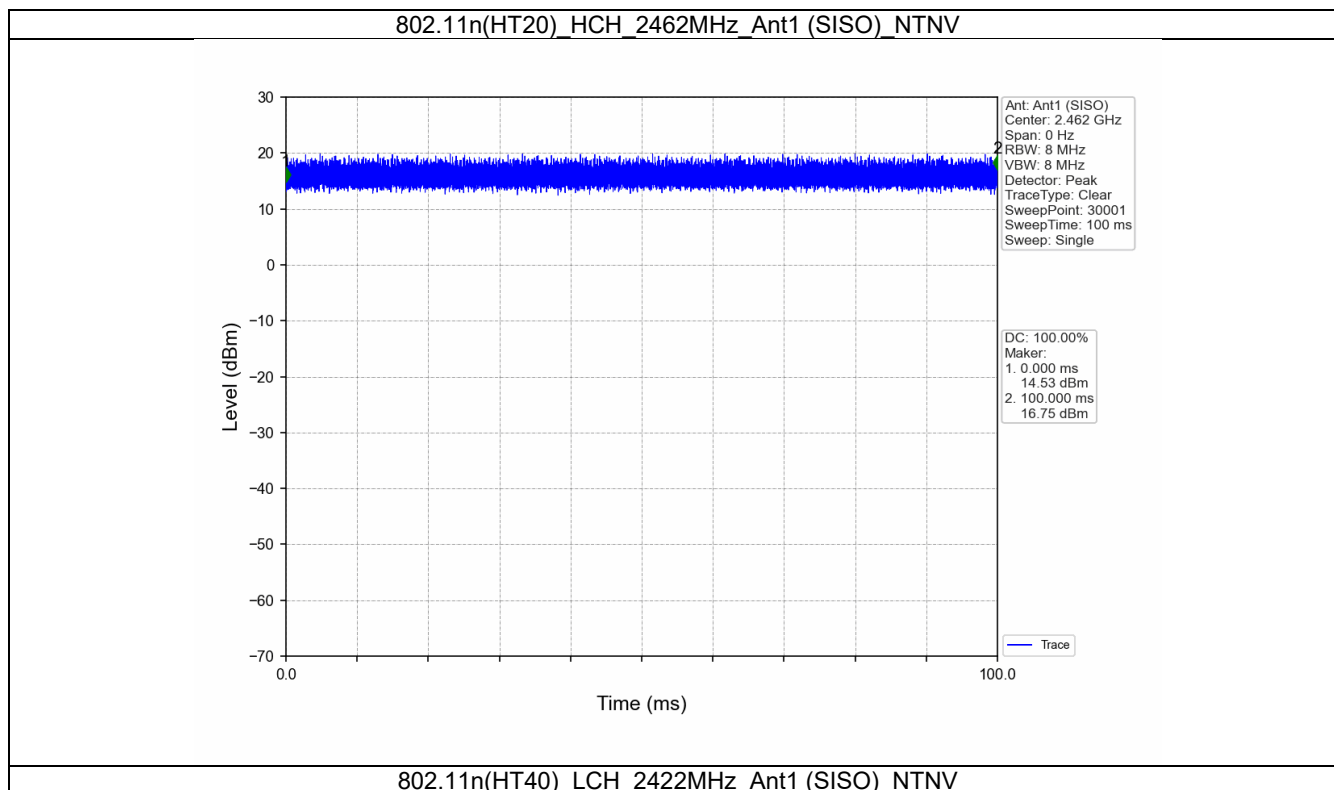
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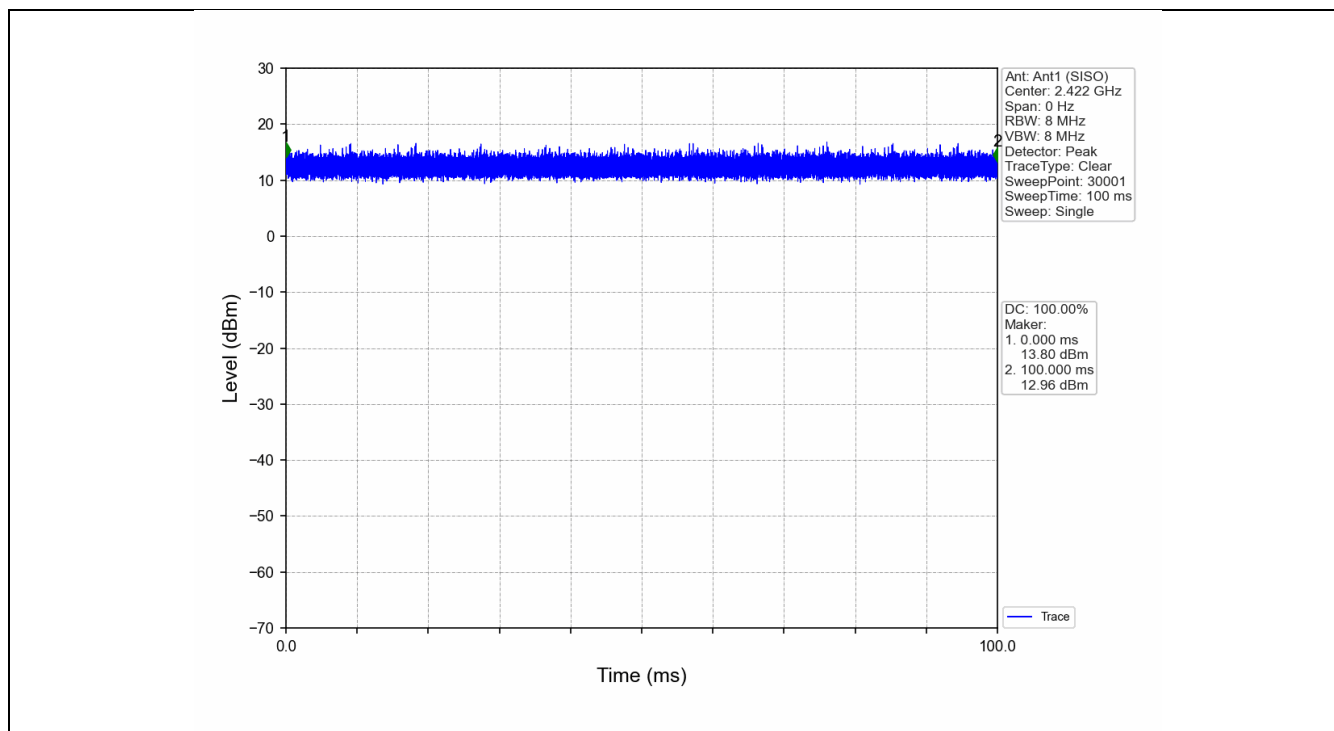
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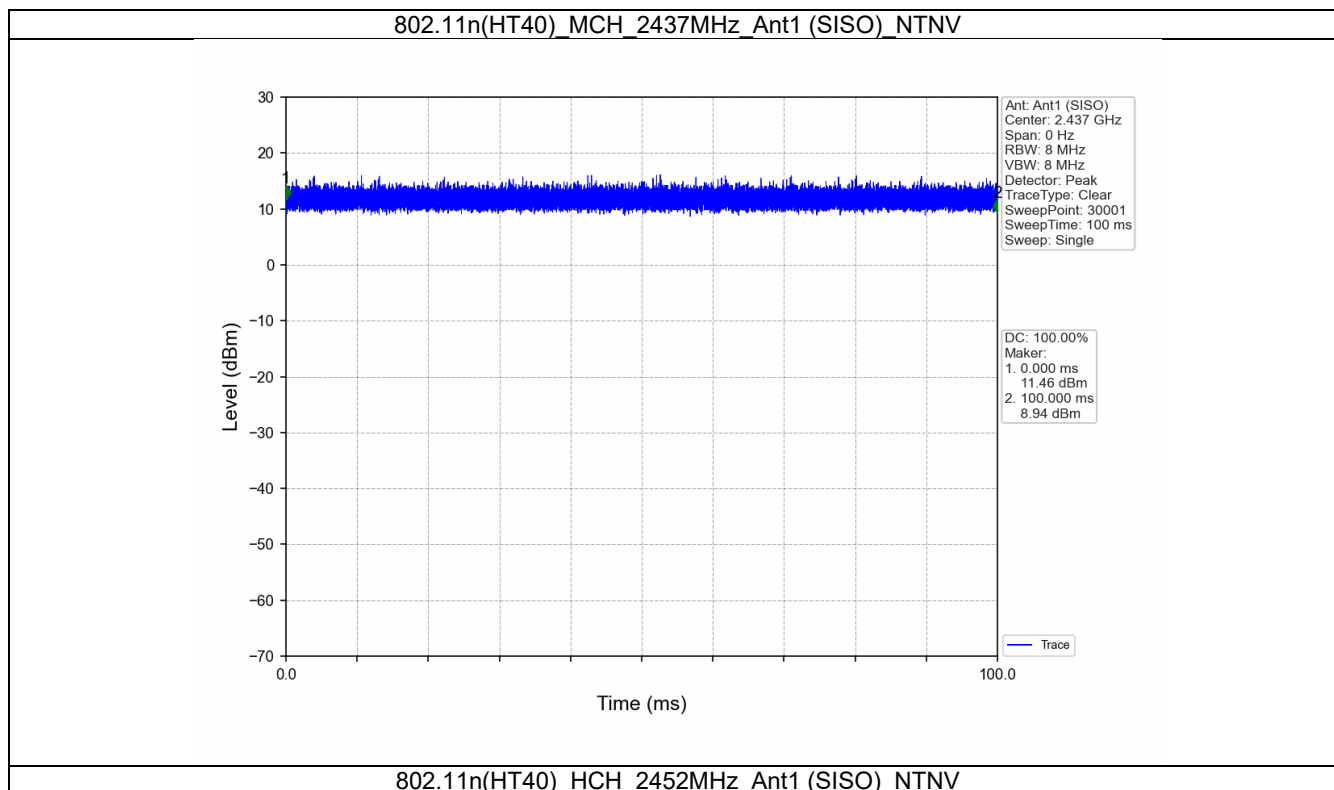
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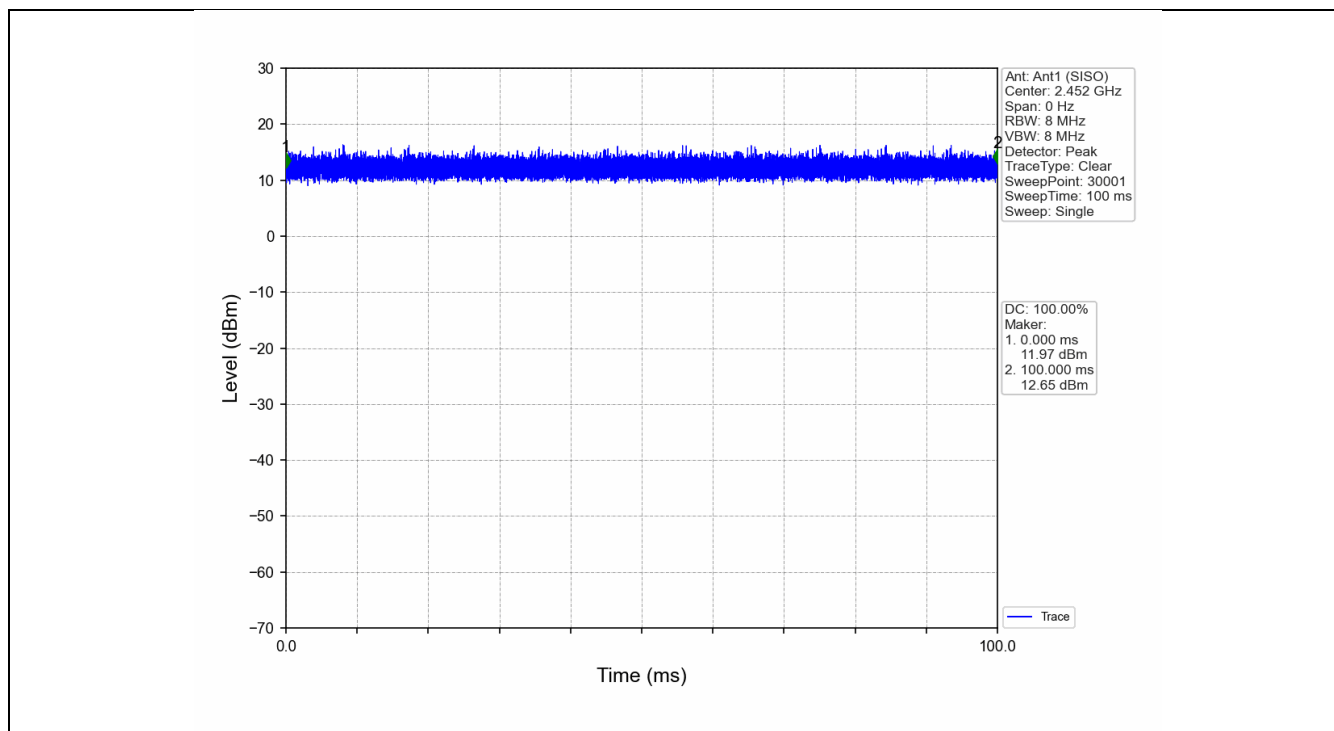
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## 2. Bandwidth

### 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   | 14.866                       | Pass    |
|                |         | 2437            | 1   | 14.920                       | Pass    |
|                |         | 2462            | 1   | 14.968                       | Pass    |
| 802.11g        | SISO    | 2412            | 1   | 17.590                       | Pass    |
|                |         | 2437            | 1   | 17.641                       | Pass    |
|                |         | 2462            | 1   | 17.824                       | Pass    |
| 802.11n (HT20) | SISO    | 2412            | 1   | 18.390                       | Pass    |
|                |         | 2437            | 1   | 18.386                       | Pass    |
|                |         | 2462            | 1   | 18.512                       | Pass    |
| 802.11n (HT40) | SISO    | 2422            | 1   | 36.222                       | Pass    |
|                |         | 2437            | 1   | 36.209                       | Pass    |
|                |         | 2452            | 1   | 36.247                       | Pass    |

#### 2.1.2 Test Graph

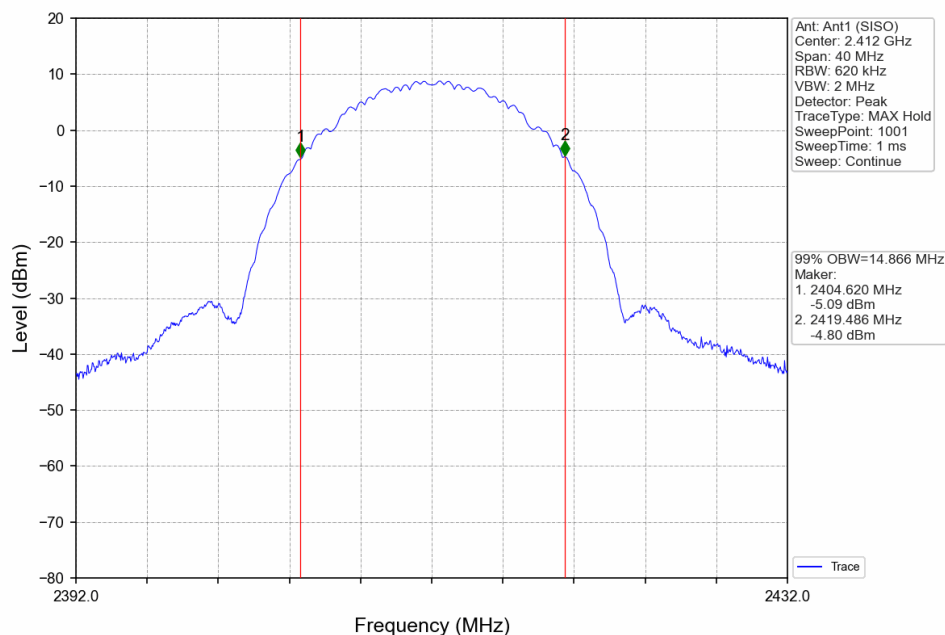
|                                      |
|--------------------------------------|
| 802.11b_LCH_2412MHz_Ant1 (SISO)_NTNV |
|--------------------------------------|



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802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

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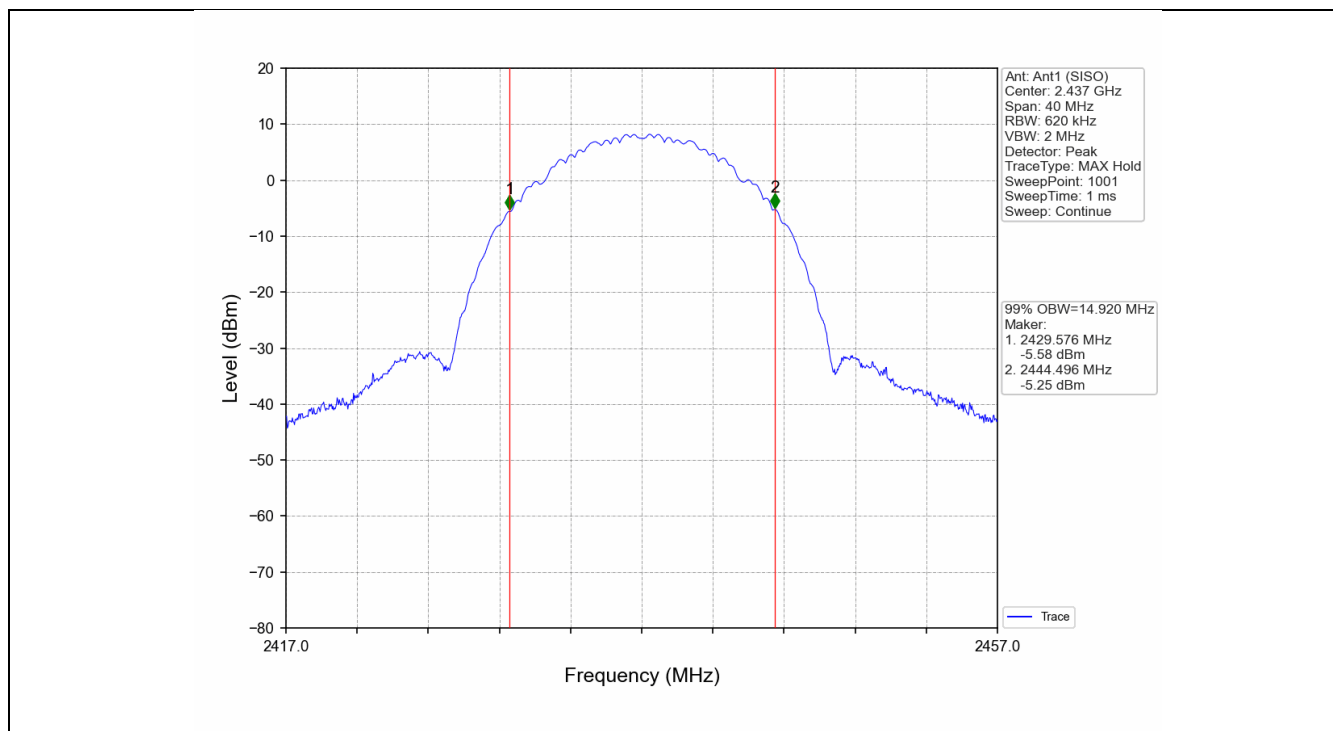
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802.11b HCH 2462MHz Ant1 (SISO) NTNv



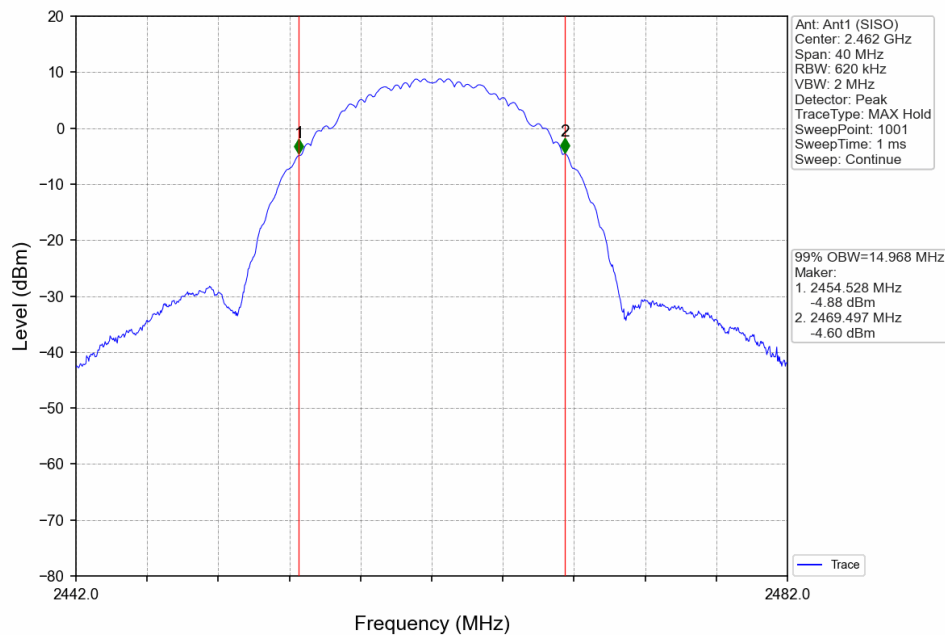
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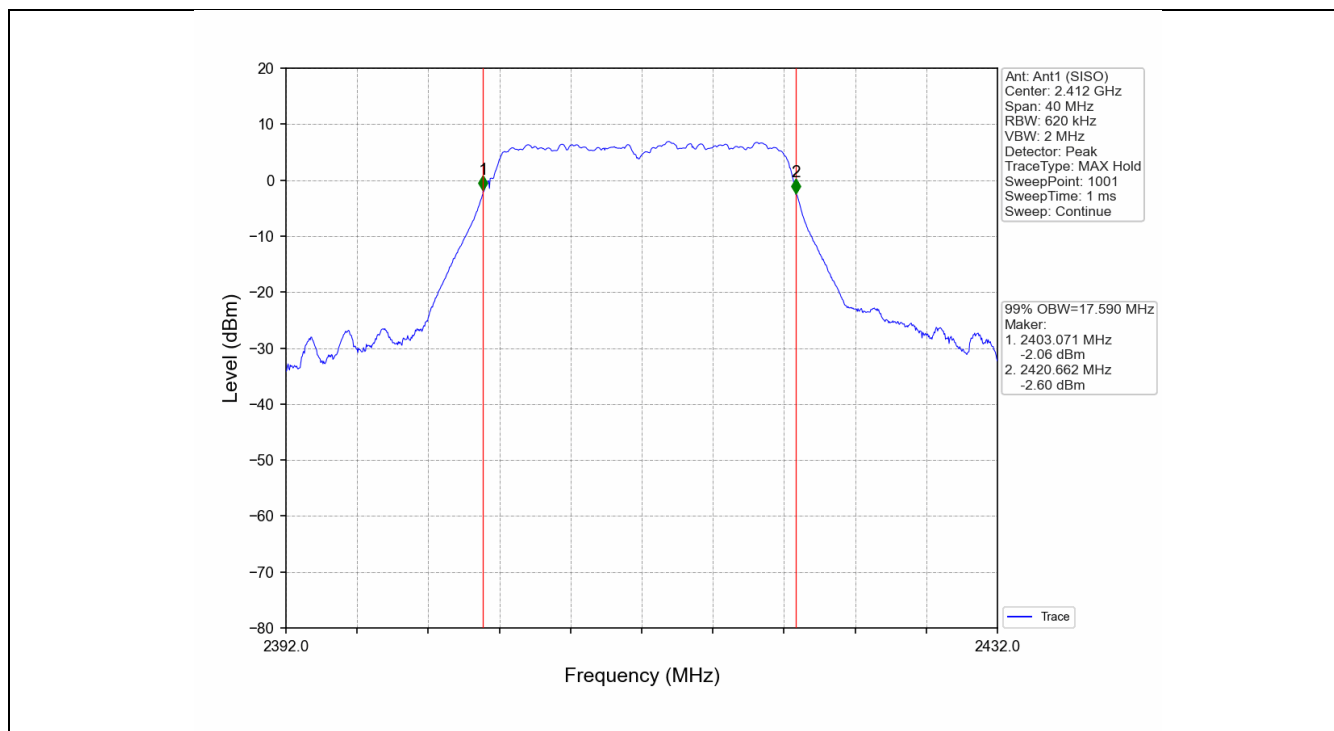
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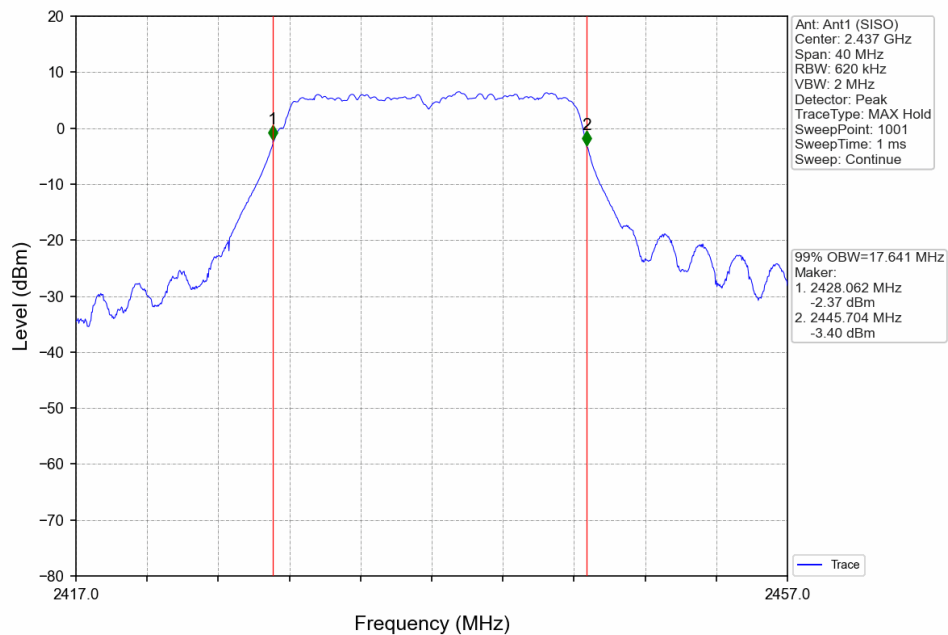
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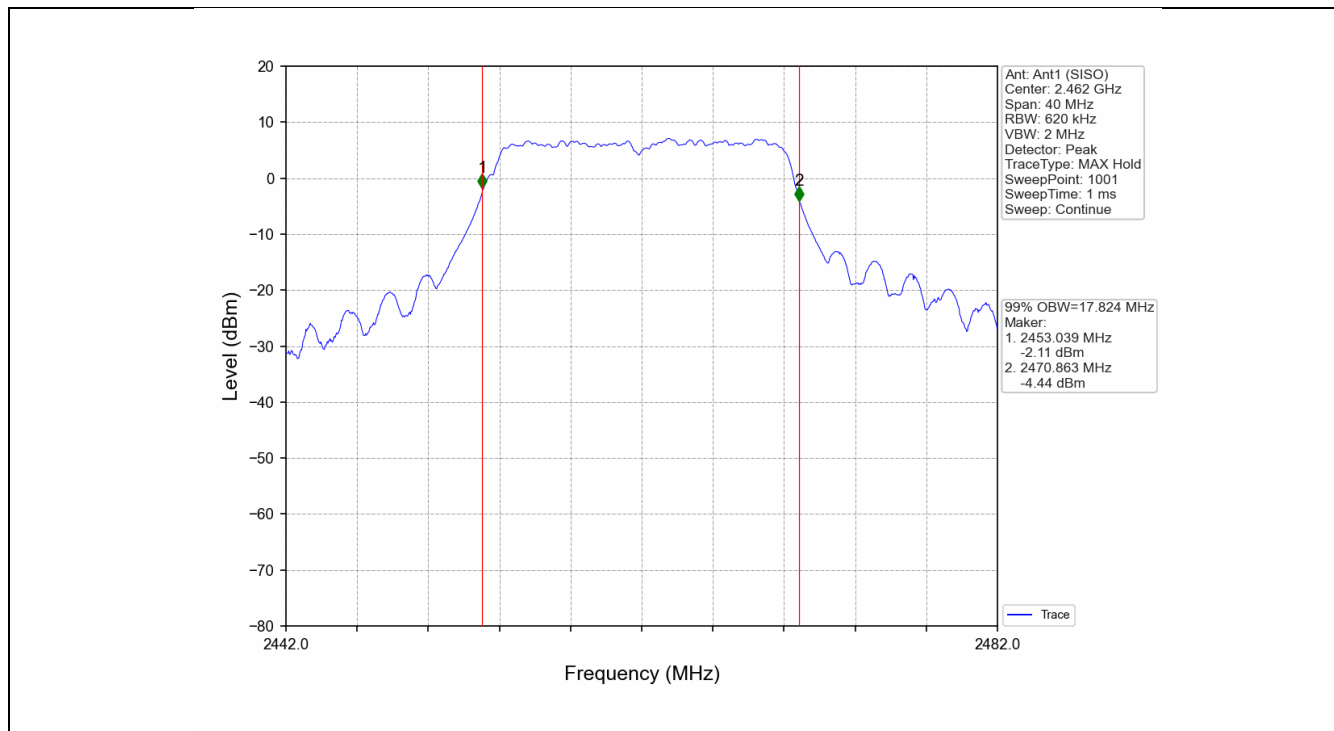
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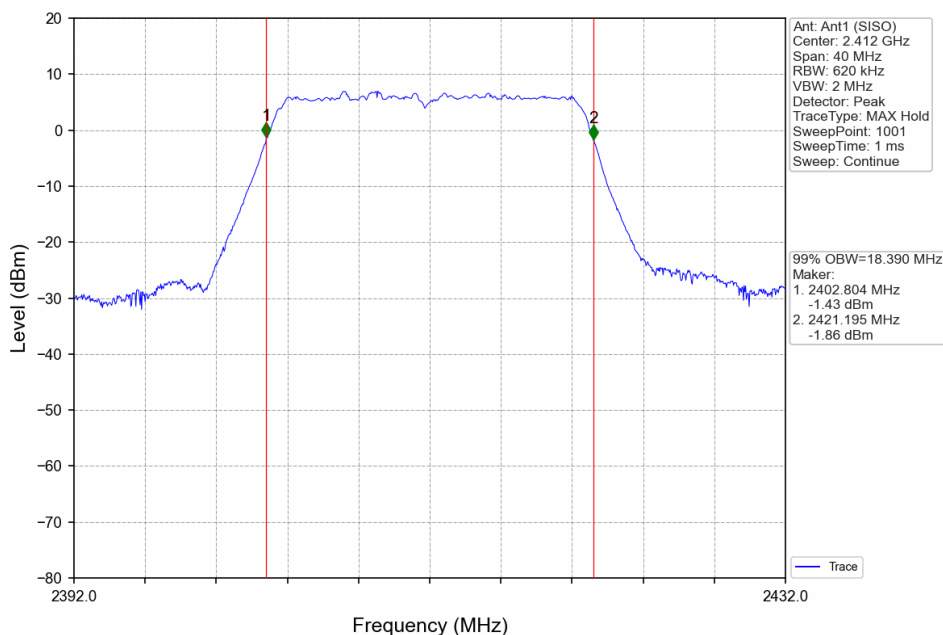
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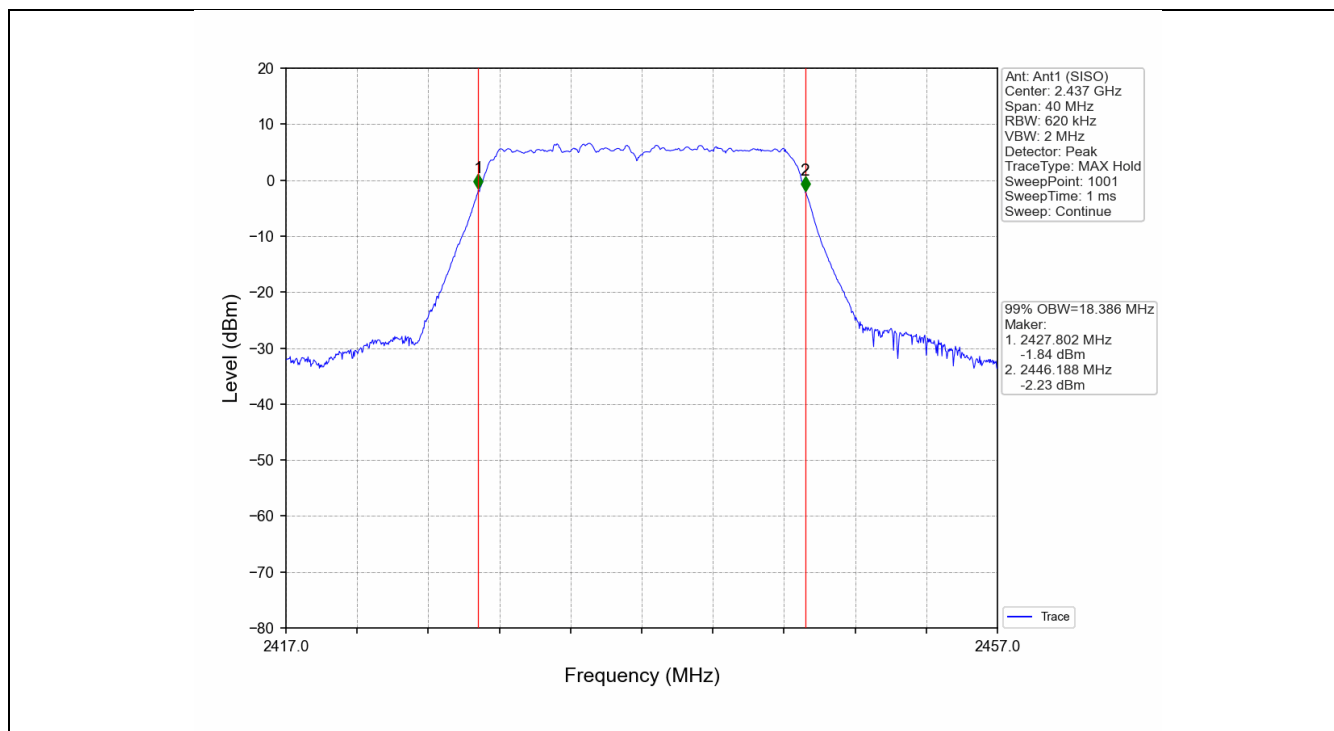
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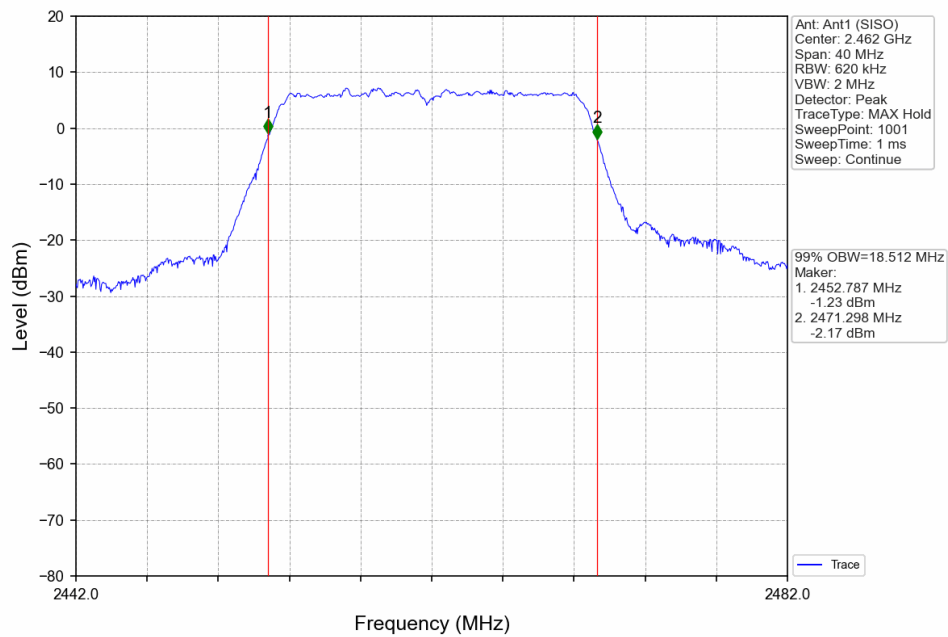
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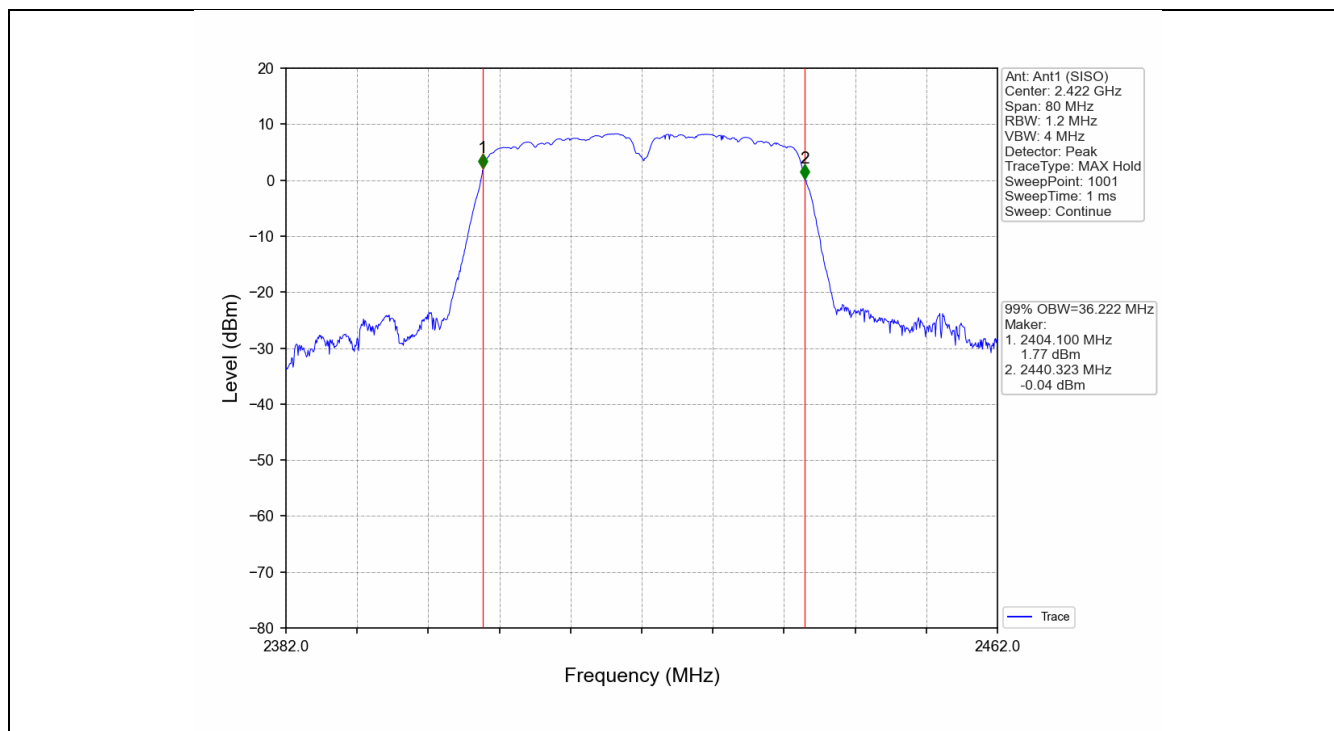
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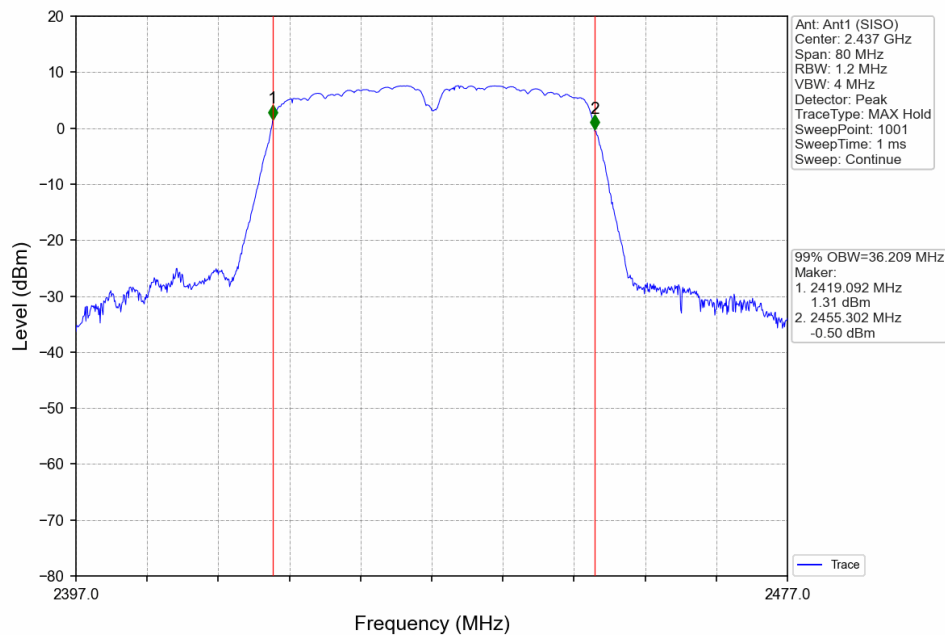
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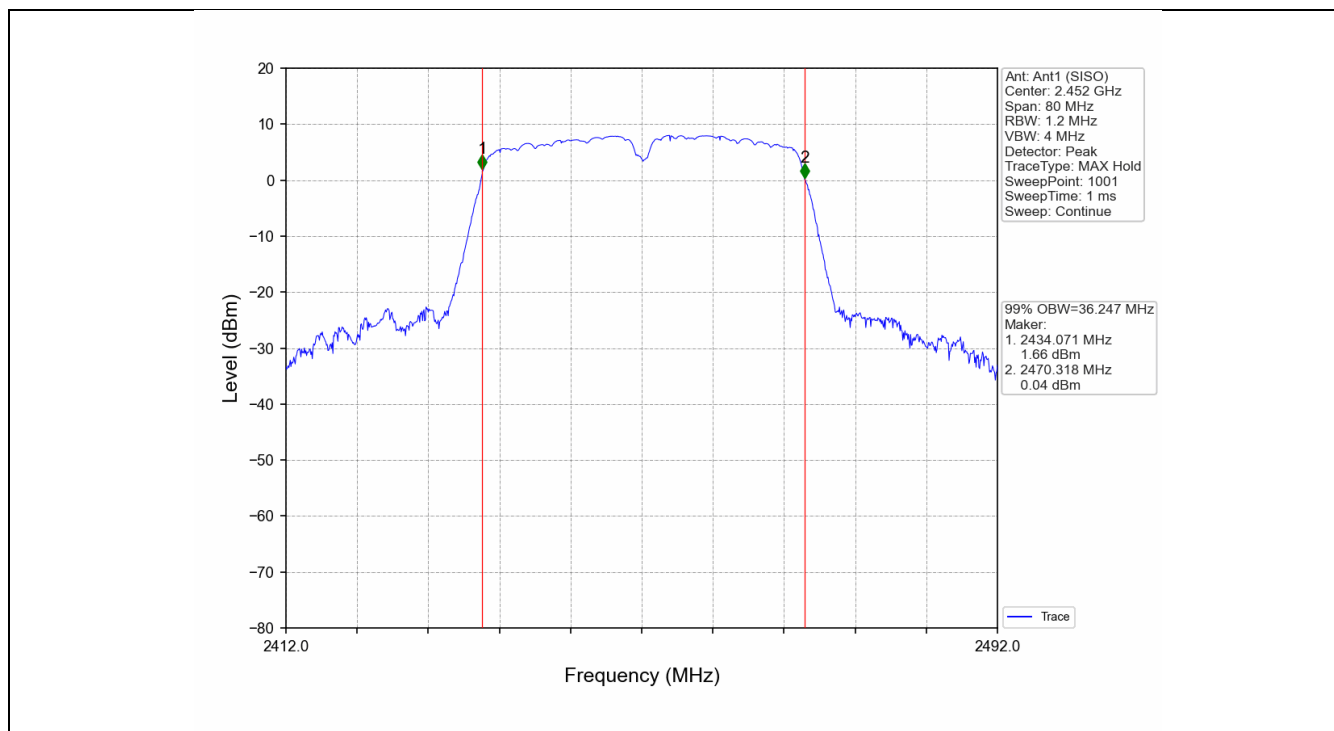
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## 2.2 6dB BW

### 2.2.1 Test Result

| Mode           | TX Type | Frequency (MHz) | Ant | 6dB Bandwidth (MHz) |            | Verdict |
|----------------|---------|-----------------|-----|---------------------|------------|---------|
|                |         |                 |     | Result              | Limit      |         |
| 802.11b        | SISO    | 2412            | 1   | 10.092              | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 10.097              | $\geq 0.5$ | Pass    |
|                |         | 2462            | 1   | 10.096              | $\geq 0.5$ | Pass    |
| 802.11g        | SISO    | 2412            | 1   | 16.595              | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 16.595              | $\geq 0.5$ | Pass    |
|                |         | 2462            | 1   | 16.593              | $\geq 0.5$ | Pass    |
| 802.11n (HT20) | SISO    | 2412            | 1   | 17.783              | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 17.775              | $\geq 0.5$ | Pass    |
|                |         | 2462            | 1   | 17.782              | $\geq 0.5$ | Pass    |
| 802.11n (HT40) | SISO    | 2422            | 1   | 36.344              | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 36.361              | $\geq 0.5$ | Pass    |
|                |         | 2452            | 1   | 36.346              | $\geq 0.5$ | Pass    |



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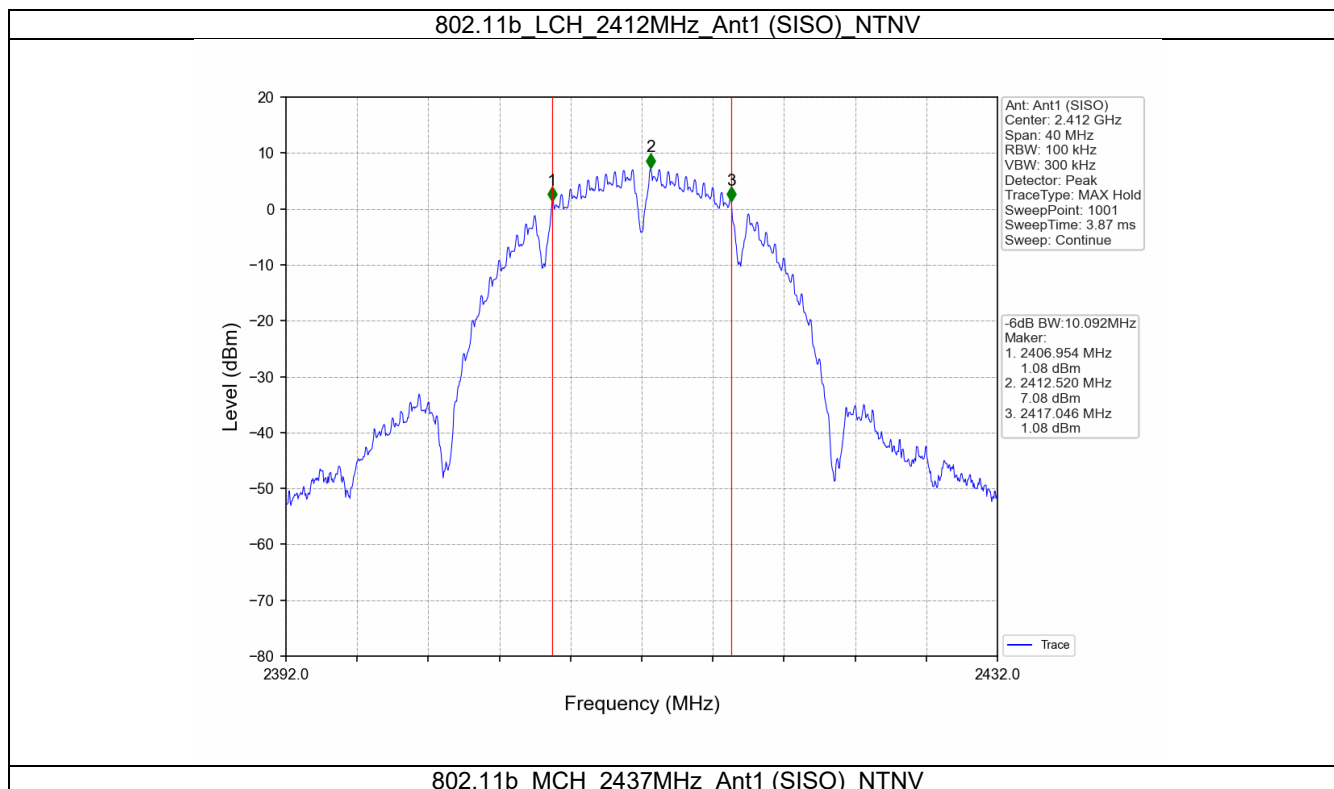
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## 2.2.2 Test Graph



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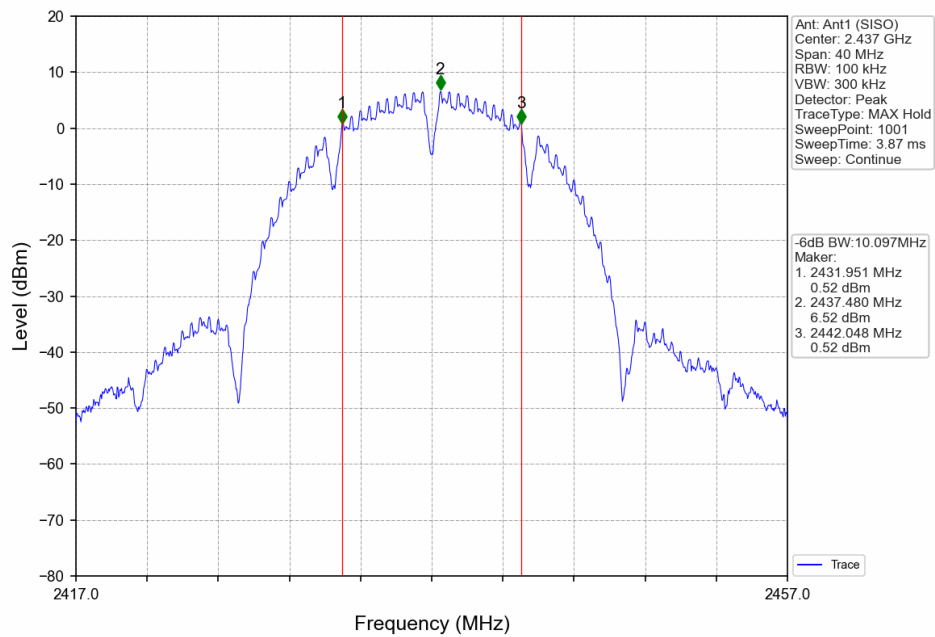
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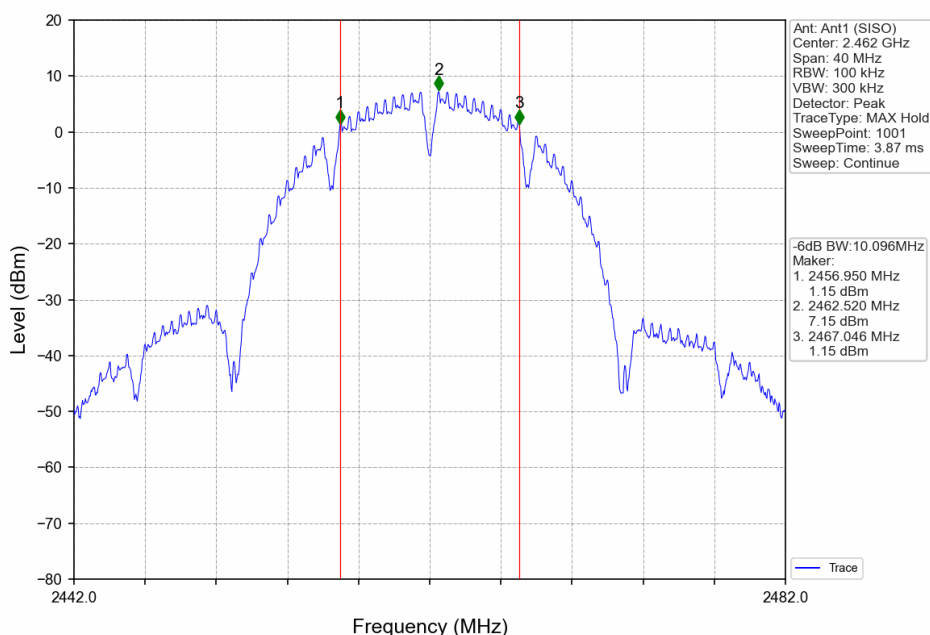
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## 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



## 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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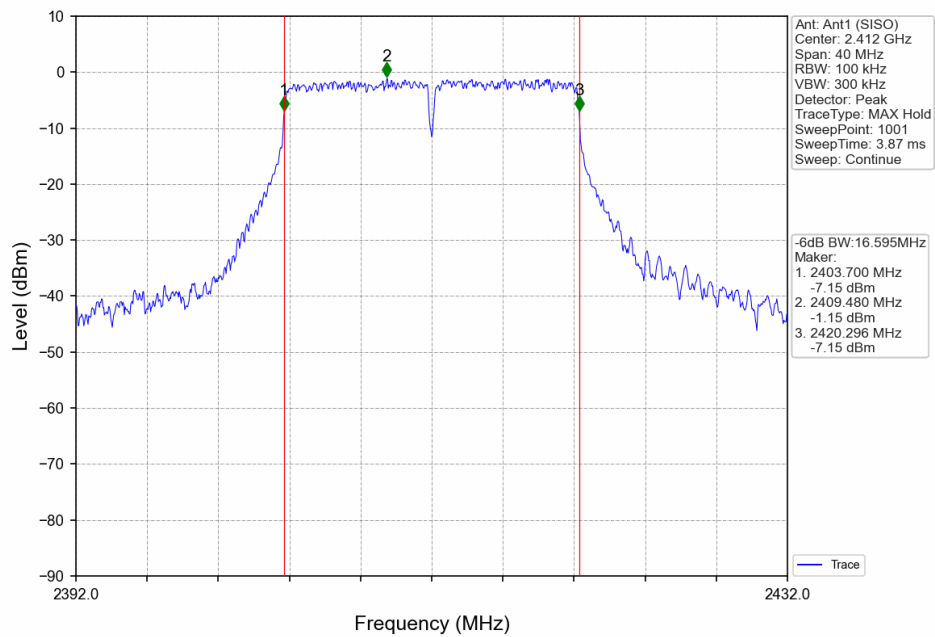
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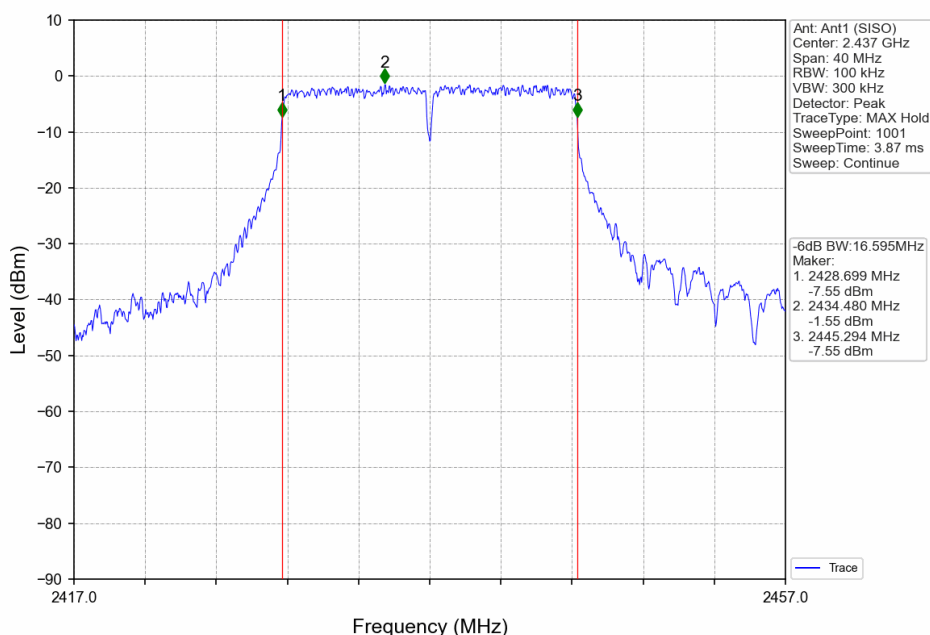
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802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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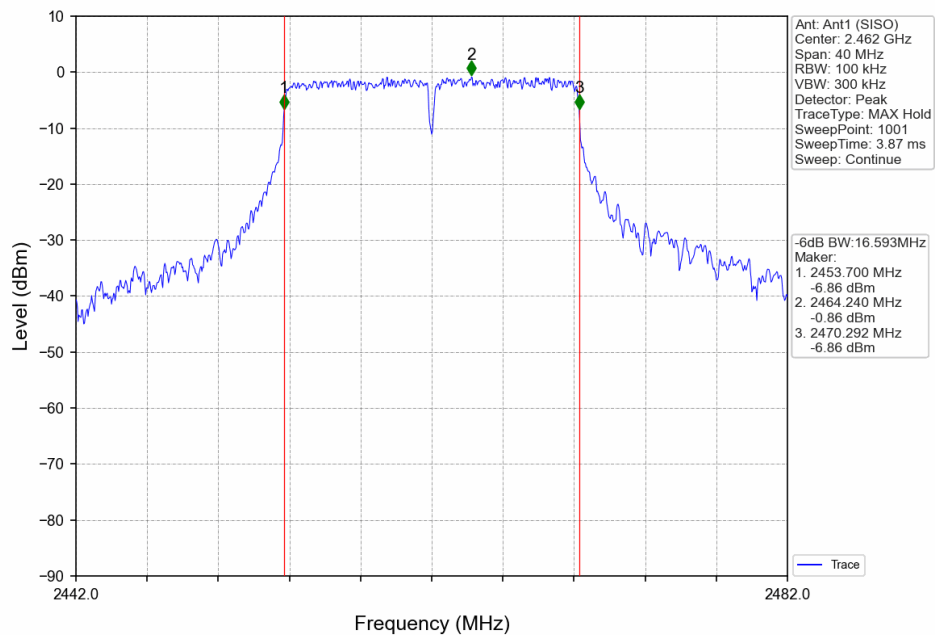
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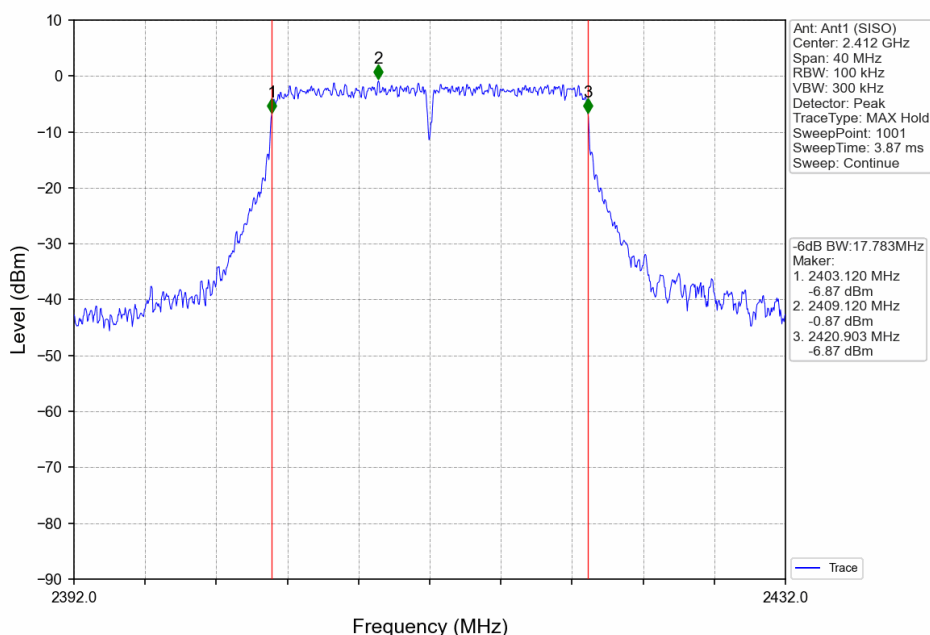
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802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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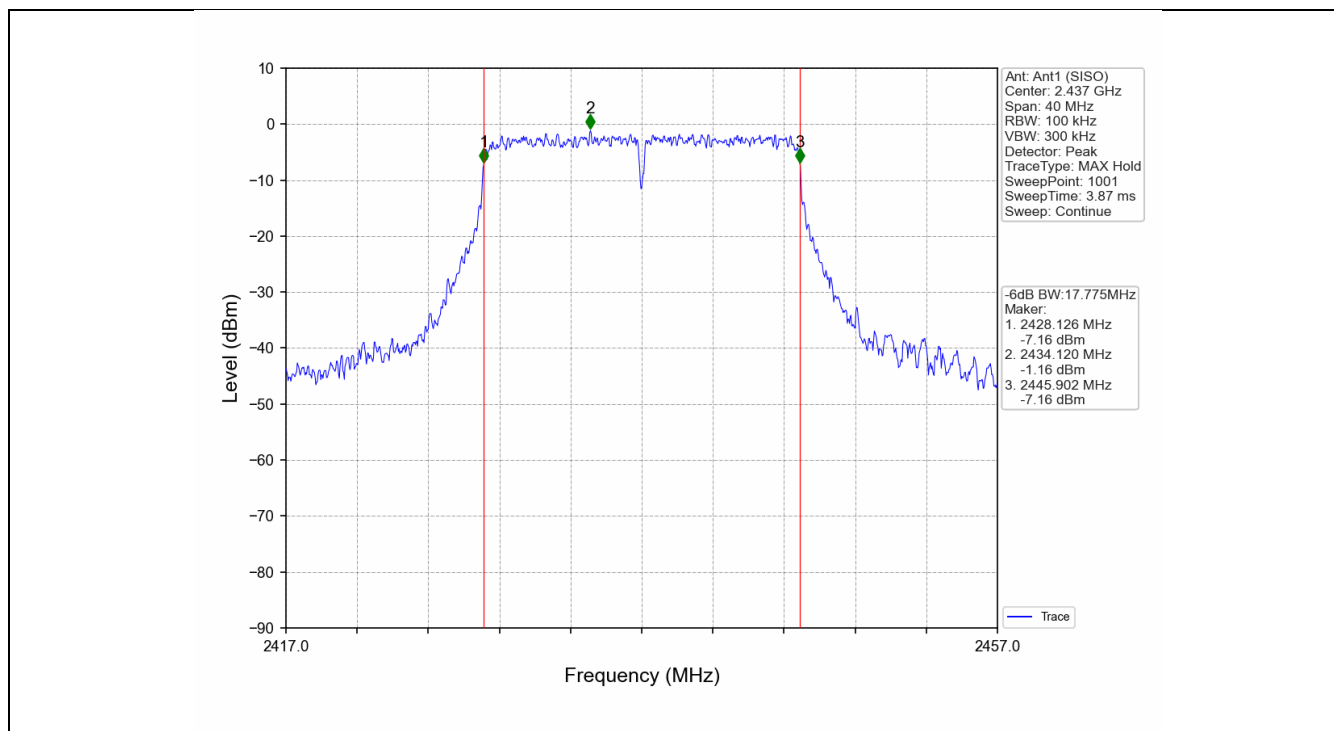
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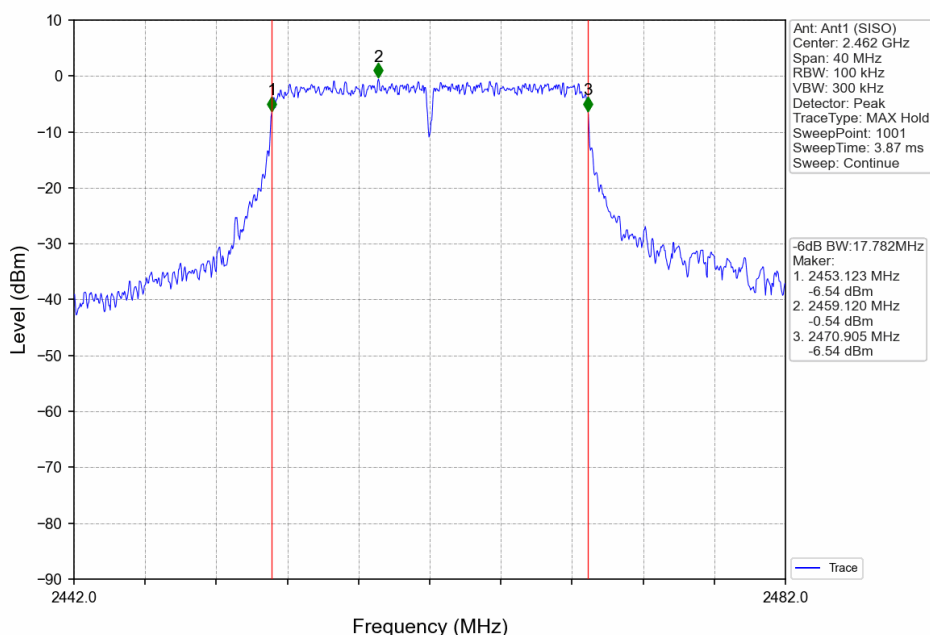


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802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



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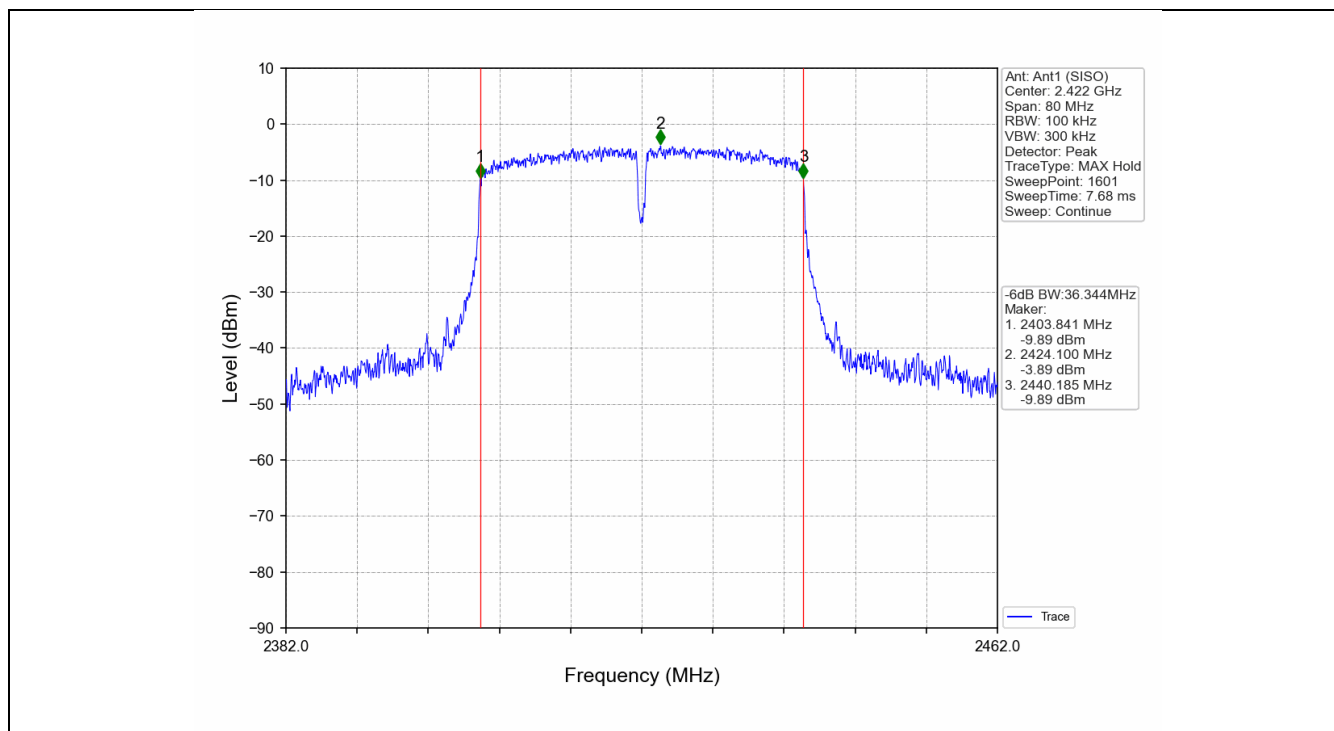
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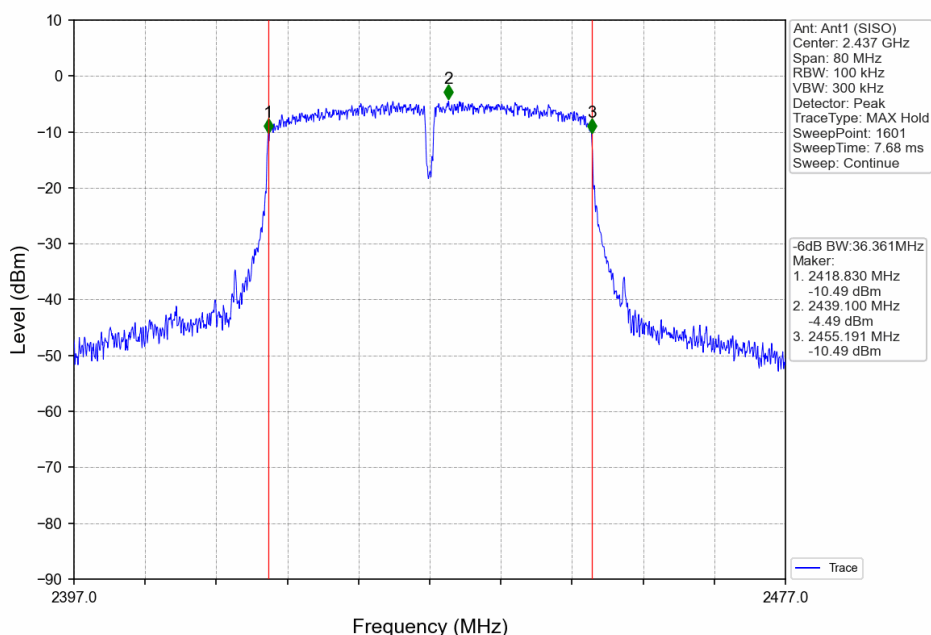
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802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTNV



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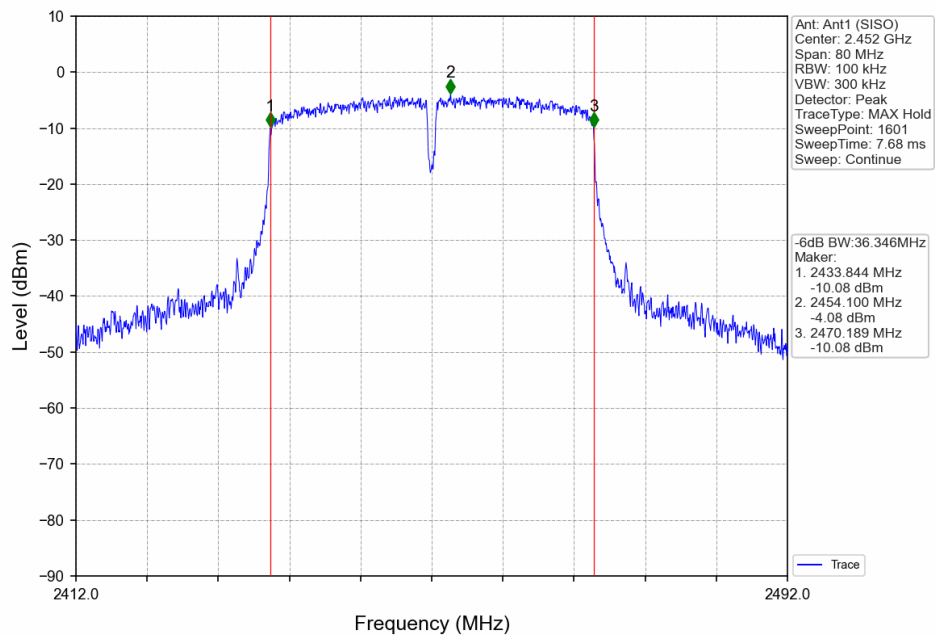
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### 3. Maximum Conducted Output Power

#### 3.1 Power

##### 3.1.1 Test Result

| Mode           | TX Type | Frequency (MHz) | Maximum Peak Conducted Output Power (dBm) |       | Verdict |
|----------------|---------|-----------------|-------------------------------------------|-------|---------|
|                |         |                 | Ant1                                      | Limit |         |
| 802.11b        | SISO    | 2412            | 19.43                                     | <=30  | Pass    |
|                |         | 2437            | 18.91                                     | <=30  | Pass    |
|                |         | 2462            | 19.53                                     | <=30  | Pass    |
| 802.11g        | SISO    | 2412            | 20.85                                     | <=30  | Pass    |
|                |         | 2437            | 20.46                                     | <=30  | Pass    |
|                |         | 2462            | 21.10                                     | <=30  | Pass    |
| 802.11n (HT20) | SISO    | 2412            | 21.03                                     | <=30  | Pass    |
|                |         | 2437            | 20.62                                     | <=30  | Pass    |
|                |         | 2462            | 21.23                                     | <=30  | Pass    |
| 802.11n (HT40) | SISO    | 2422            | 20.87                                     | <=30  | Pass    |
|                |         | 2437            | 20.27                                     | <=30  | Pass    |
|                |         | 2452            | 20.61                                     | <=30  | Pass    |

Note1: Antenna Gain: Ant1: -2.10dBi;

### 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            | -12.85                 | <=8   | Pass    |
|                |         | 2437            | -13.38                 | <=8   | Pass    |
|                |         | 2462            | -12.74                 | <=8   | Pass    |
| 802.11g        | SISO    | 2412            | -14.98                 | <=8   | Pass    |
|                |         | 2437            | -15.44                 | <=8   | Pass    |
|                |         | 2462            | -14.85                 | <=8   | Pass    |
| 802.11n (HT20) | SISO    | 2412            | -14.86                 | <=8   | Pass    |
|                |         | 2437            | -15.30                 | <=8   | Pass    |
|                |         | 2462            | -14.69                 | <=8   | Pass    |
| 802.11n (HT40) | SISO    | 2422            | -14.52                 | <=8   | Pass    |
|                |         | 2437            | -15.67                 | <=8   | Pass    |
|                |         | 2452            | -15.20                 | <=8   | Pass    |

Note1: Antenna Gain: Ant1: -2.10dBi;



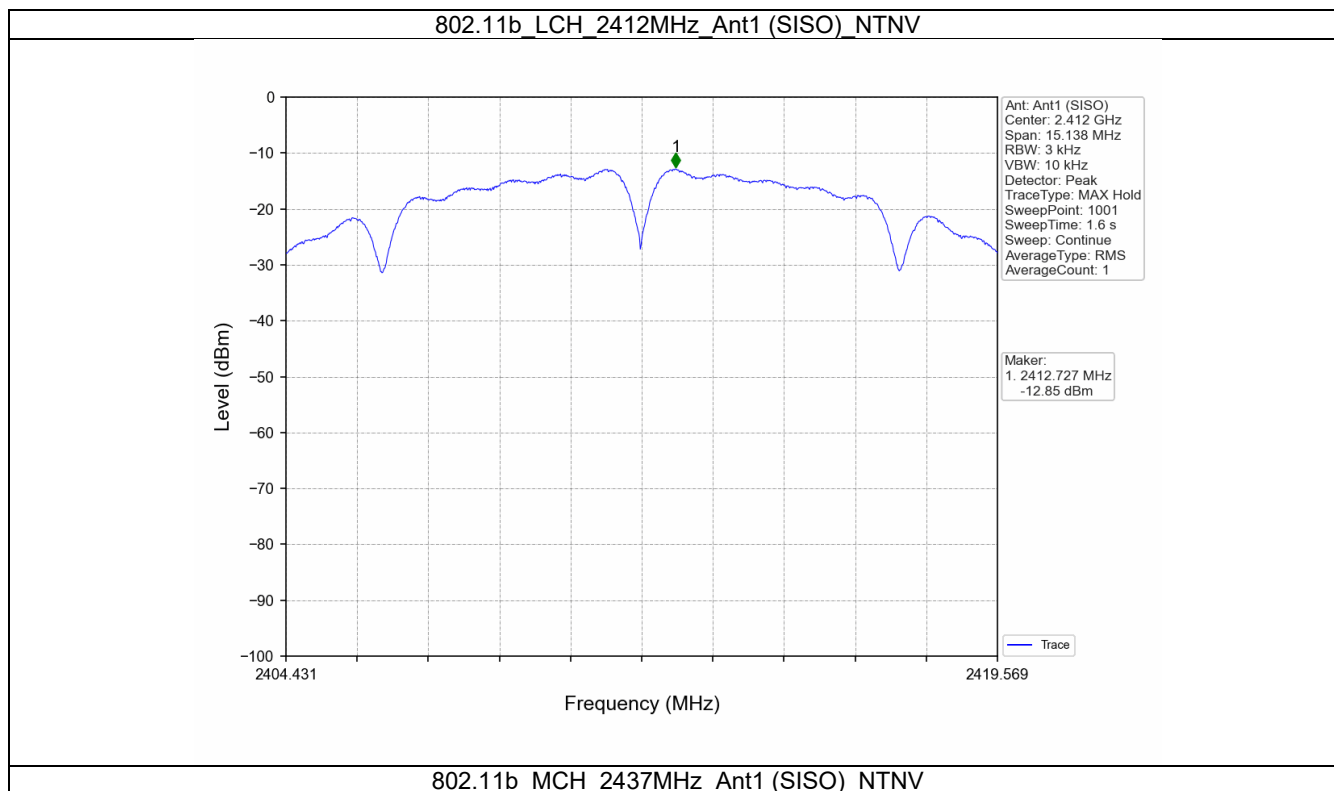
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## 4.1.2 Test Graph



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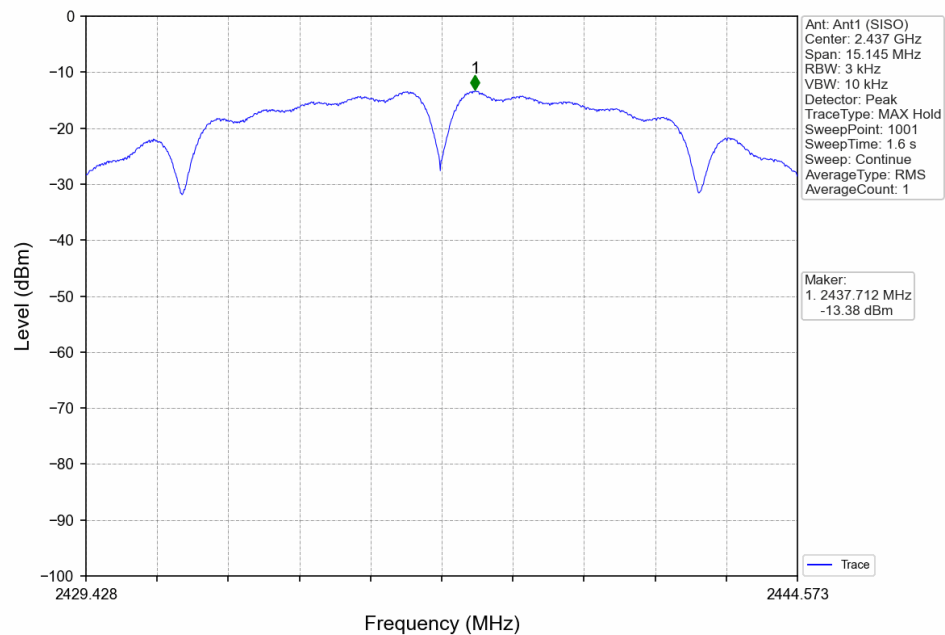
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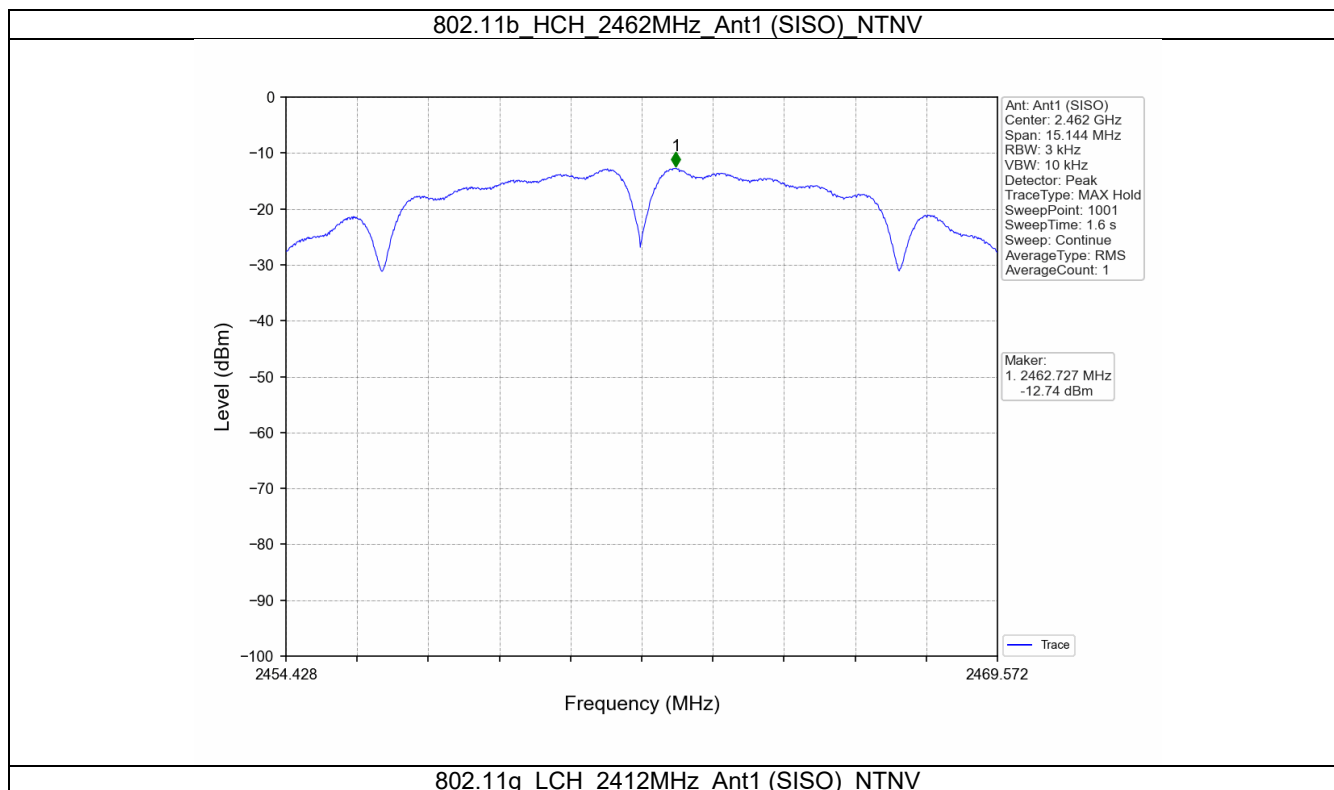


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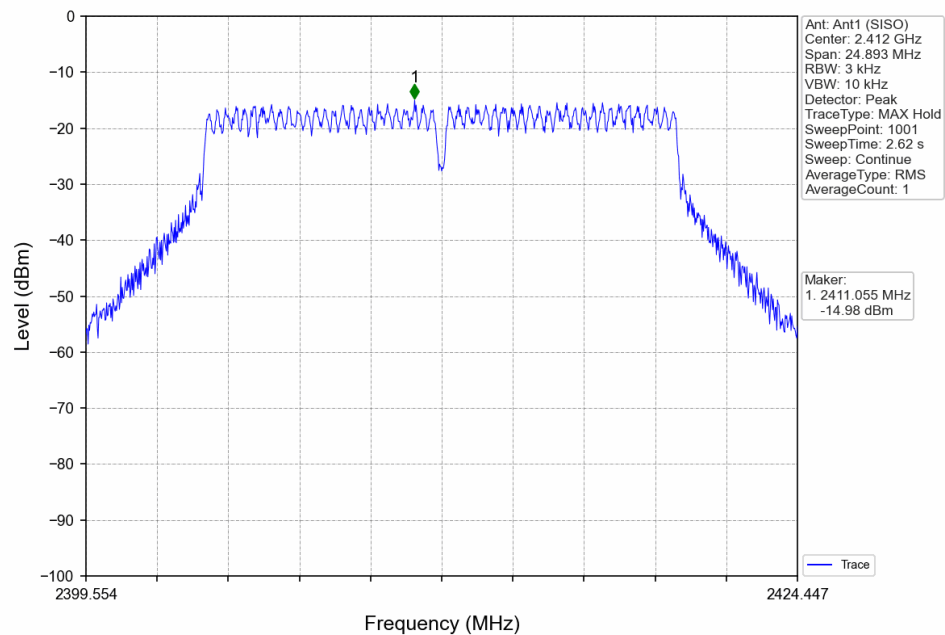
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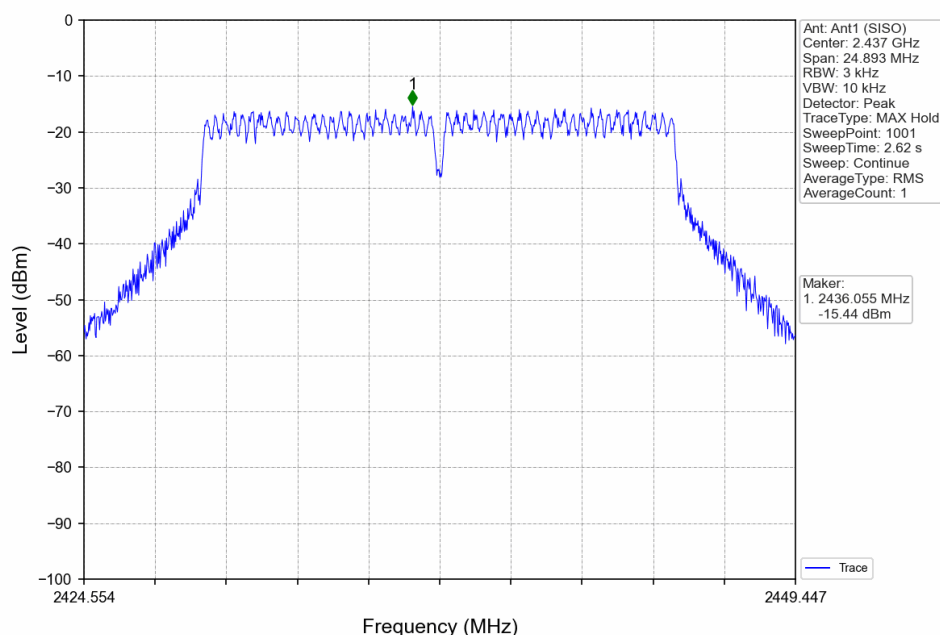
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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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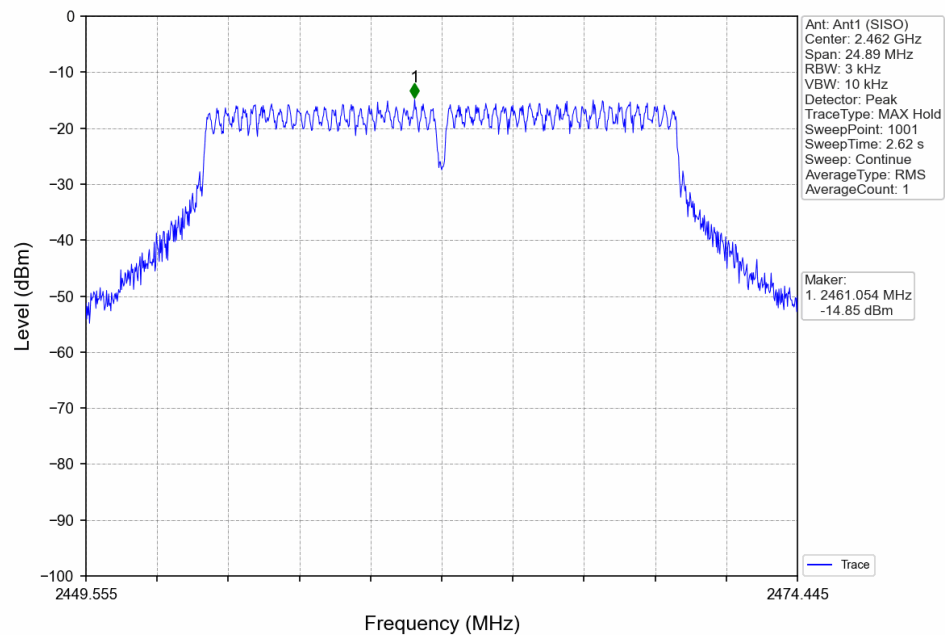
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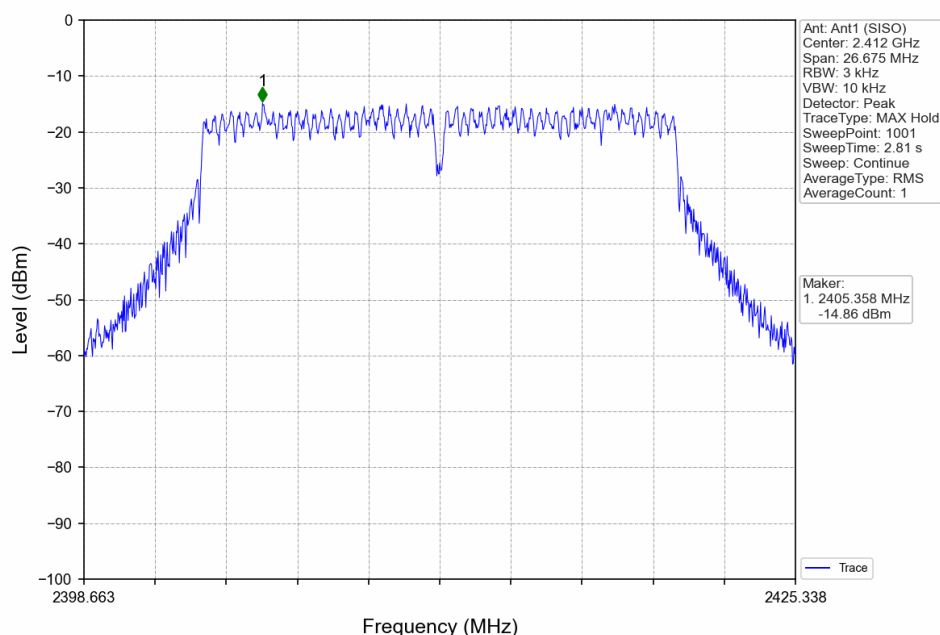
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802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV

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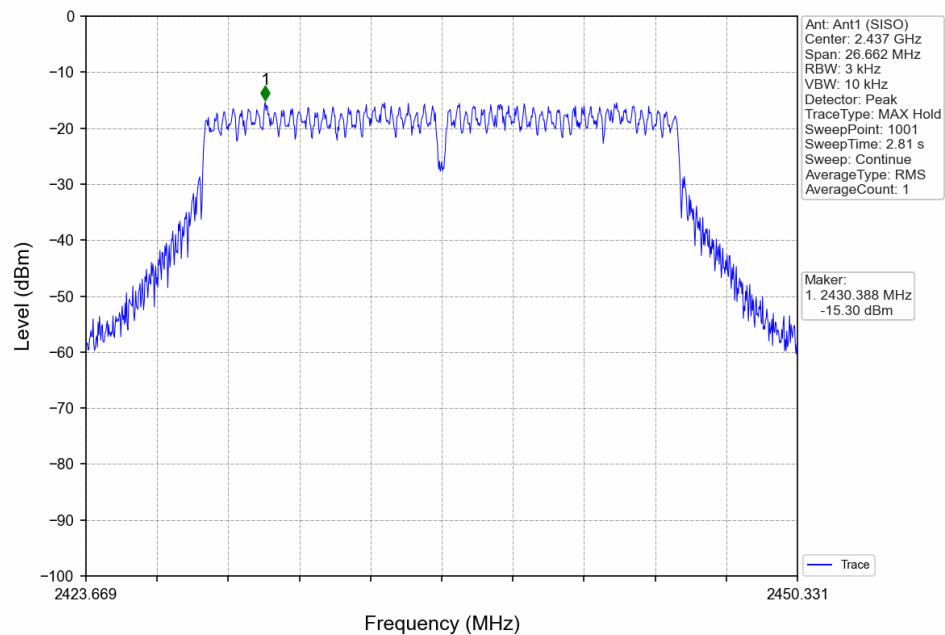
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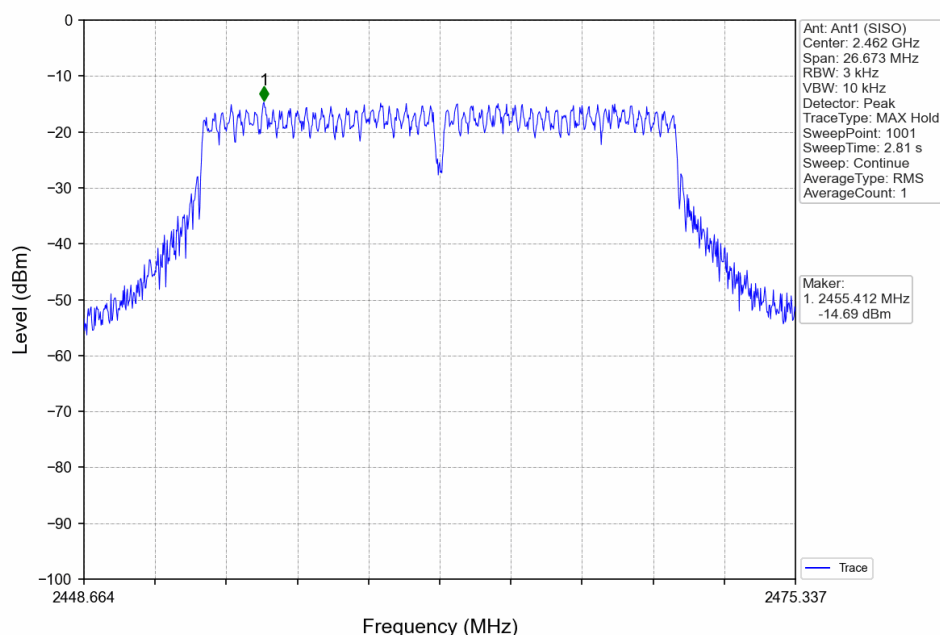
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802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



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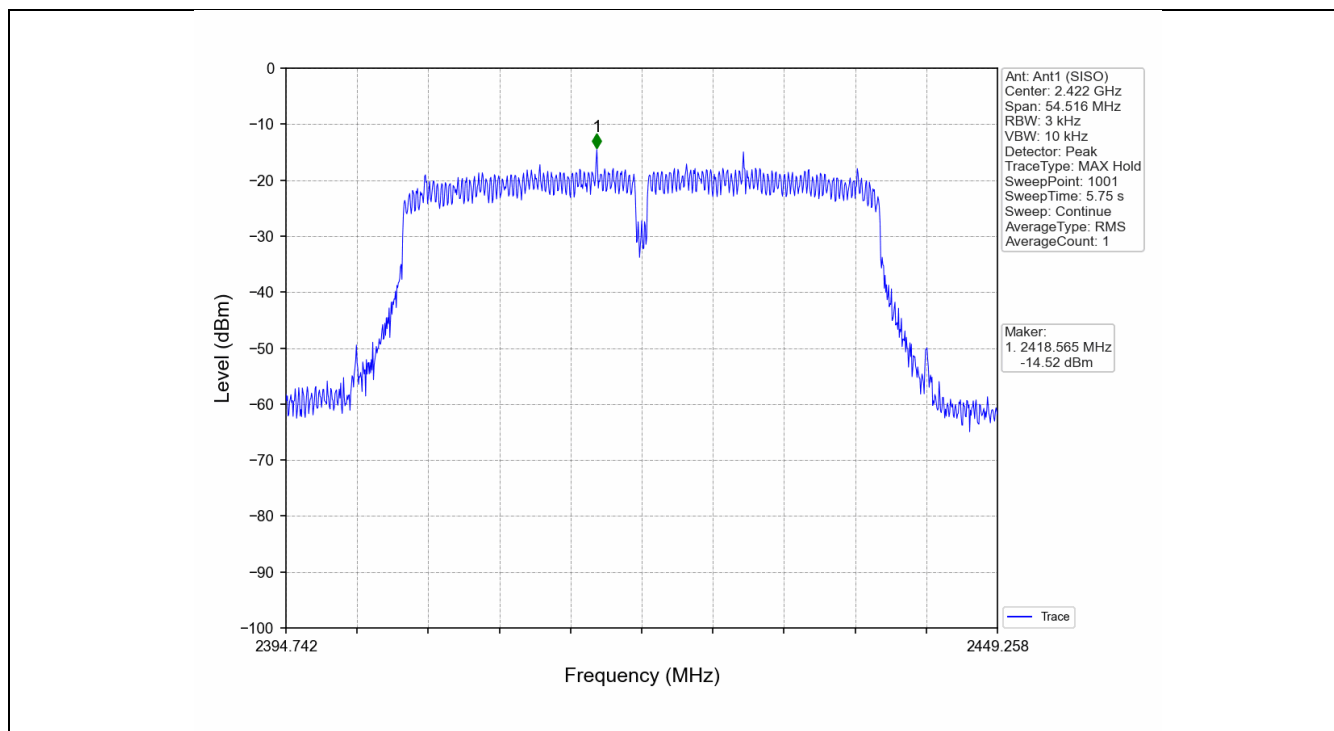
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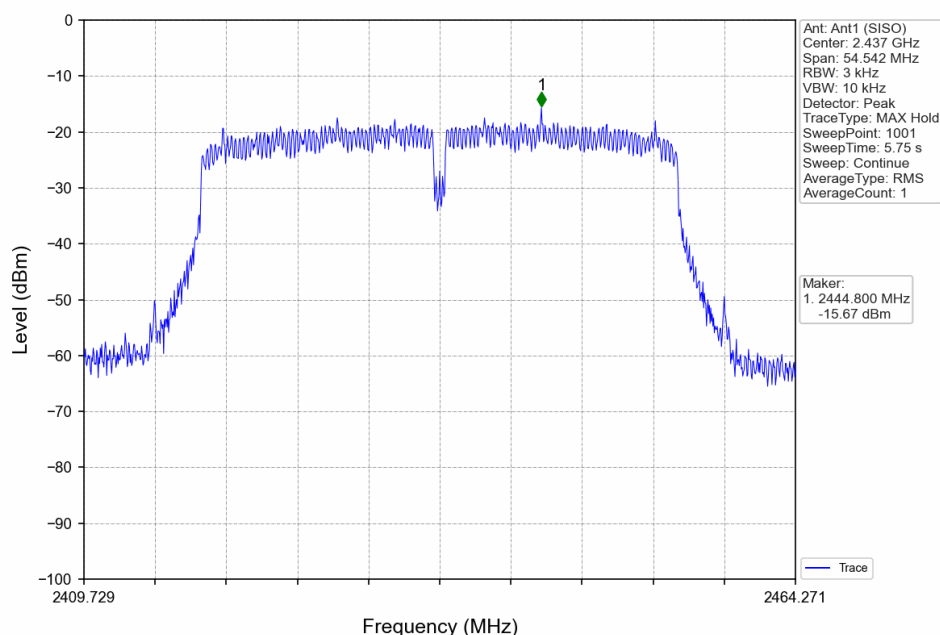
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802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTNV



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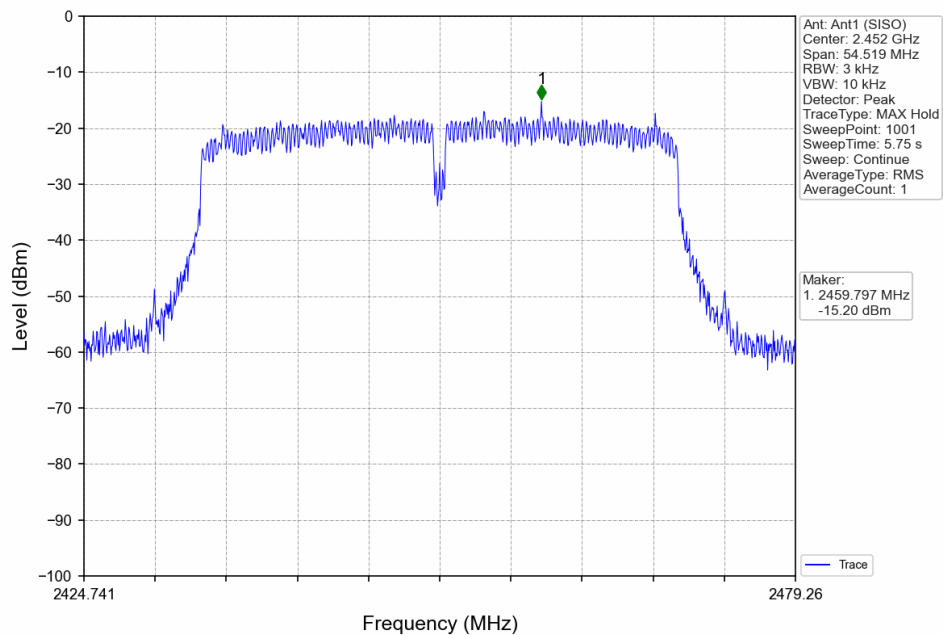
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## 5. Unwanted Emissions In Non-restricted Frequency Bands

### 5.1 Ref

#### 5.1.1 Test Result

| Mode           | TX Type | Frequency (MHz) | Ant | Level of Reference (dBm) |
|----------------|---------|-----------------|-----|--------------------------|
| 802.11b        | SISO    | 2412            | 1   | 6.88                     |
|                |         | 2437            | 1   | 6.31                     |
|                |         | 2462            | 1   | 6.95                     |
| 802.11g        | SISO    | 2412            | 1   | -1.18                    |
|                |         | 2437            | 1   | -1.54                    |
|                |         | 2462            | 1   | -0.86                    |
| 802.11n (HT20) | SISO    | 2412            | 1   | -0.93                    |
|                |         | 2437            | 1   | -1.23                    |
|                |         | 2462            | 1   | -0.77                    |
| 802.11n (HT40) | SISO    | 2422            | 1   | -4.10                    |
|                |         | 2437            | 1   | -4.58                    |
|                |         | 2452            | 1   | -4.15                    |

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 Test Graph

802.11b\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



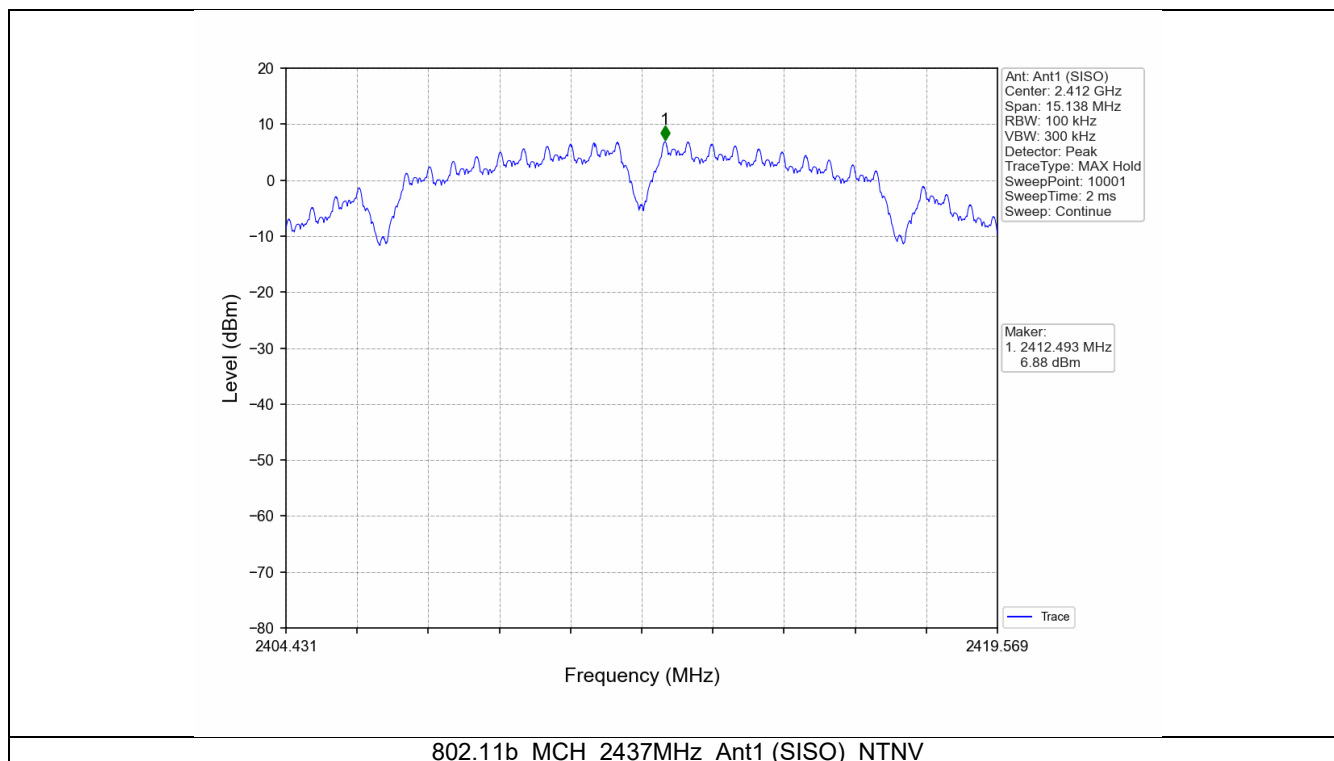
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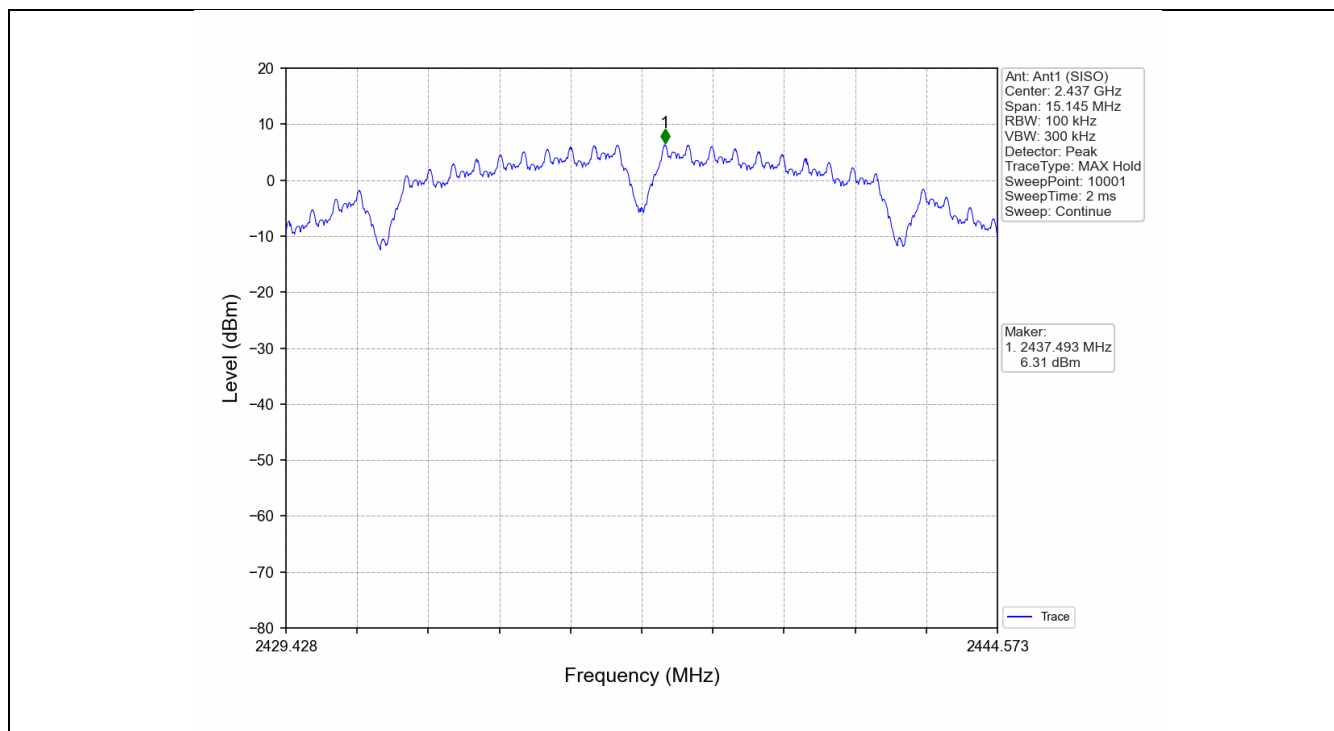


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802.11b HCH 2462MHz Ant1 (SISO) NTNv



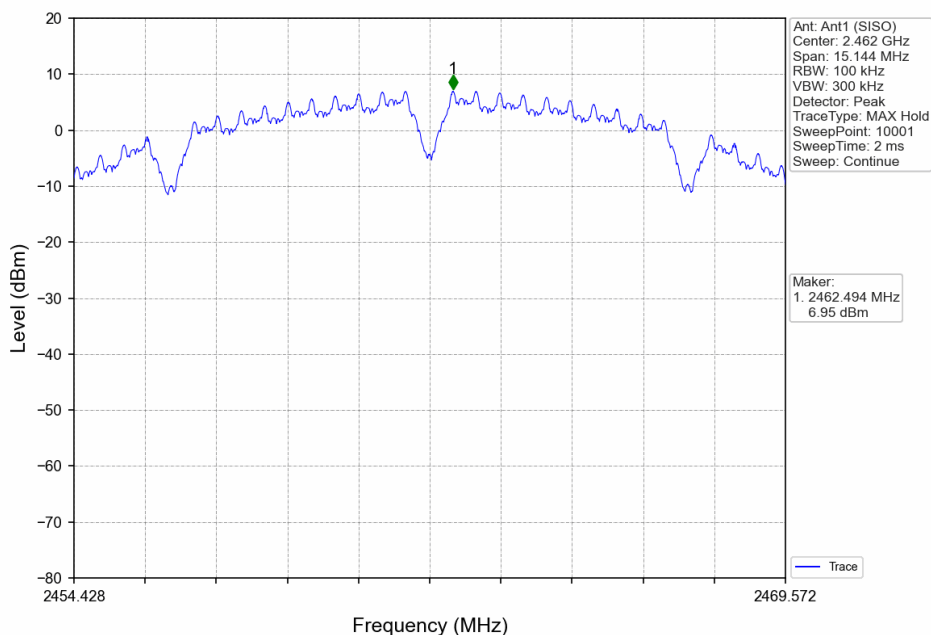
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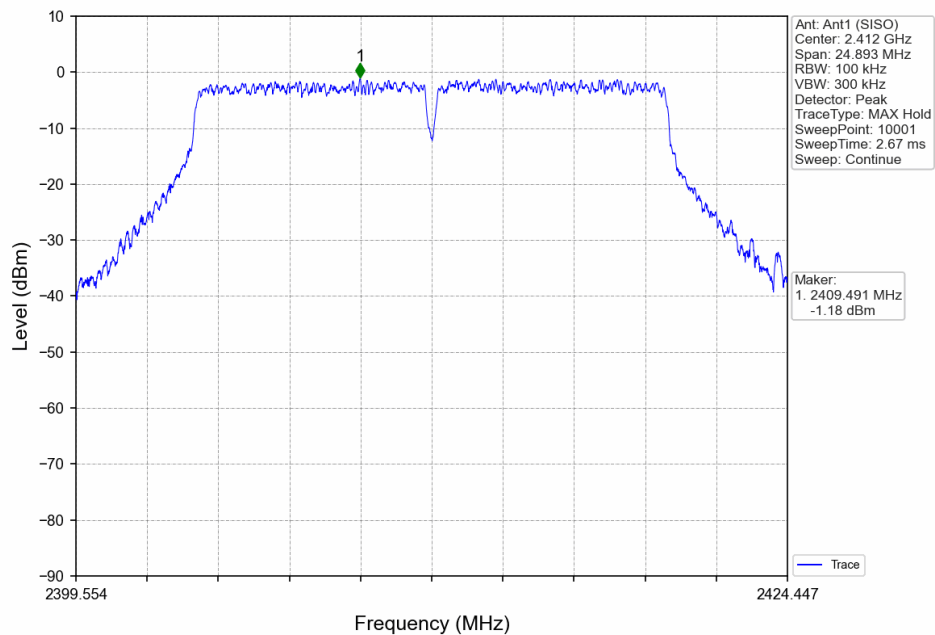
802.11g LCH 2412MHz Ant1 (SISO) NTN



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802.11g MCH 2437MHz Ant1 (SISO) NTN

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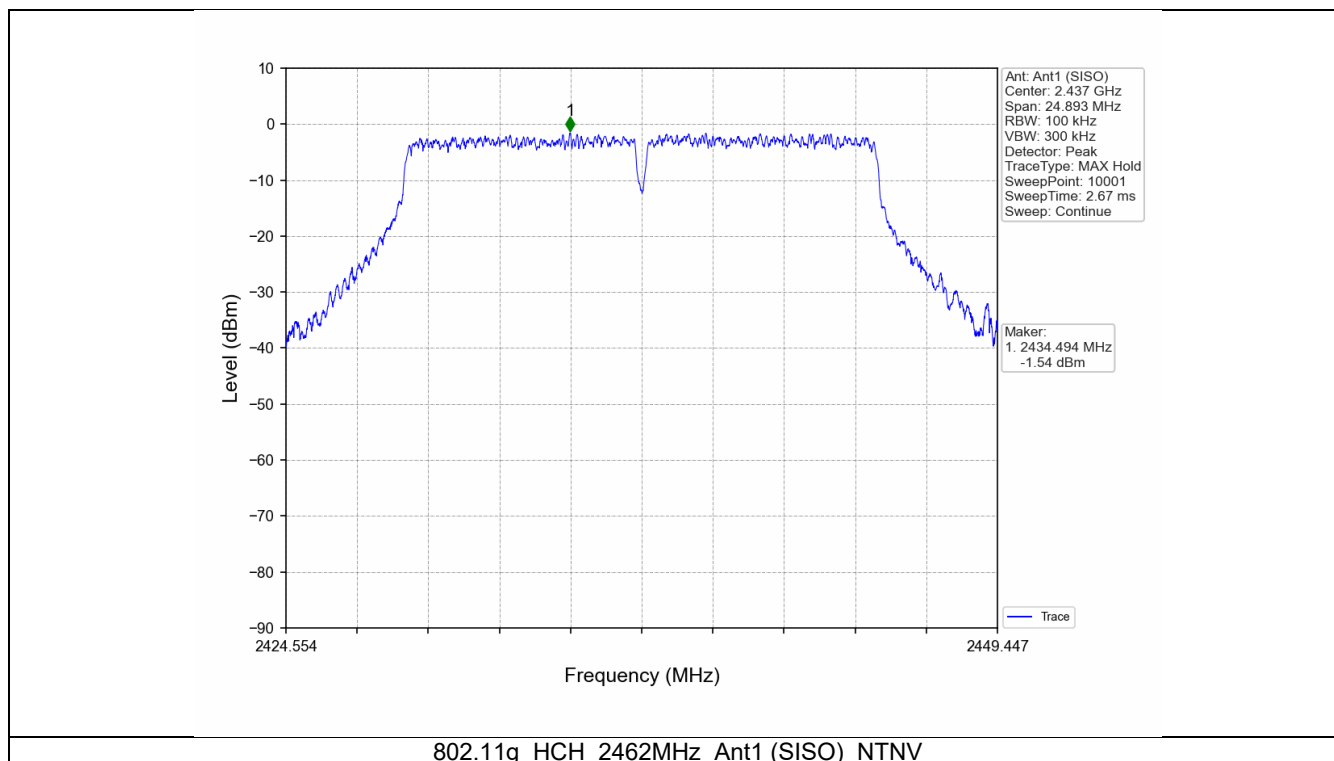
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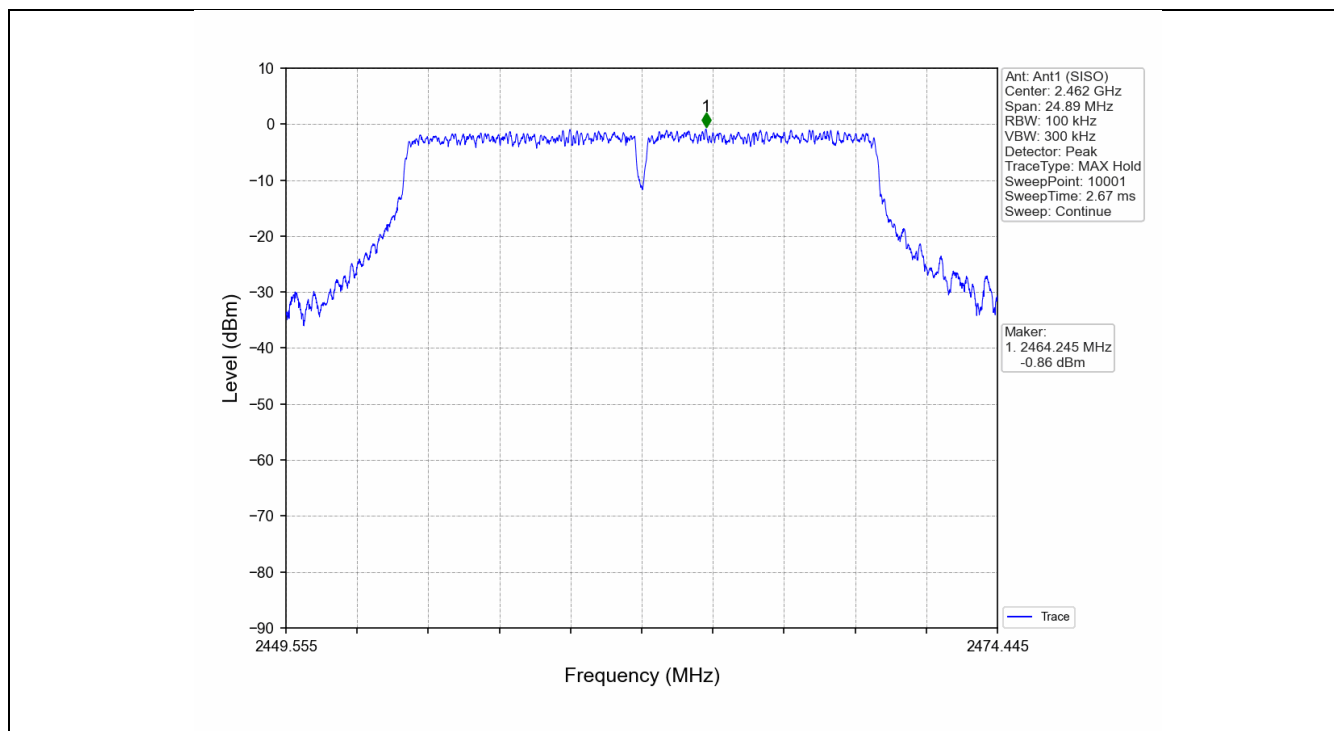


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802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



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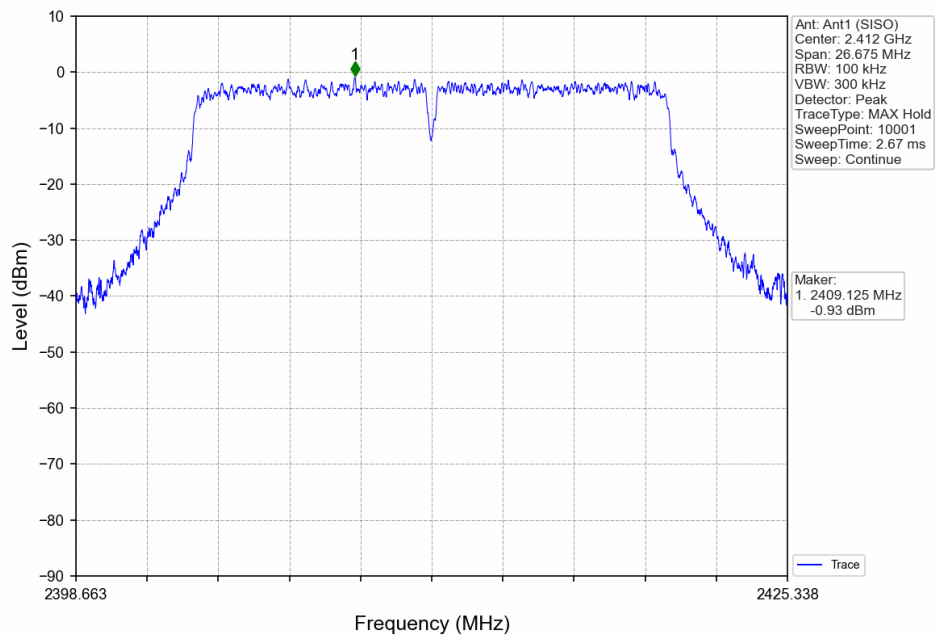
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802.11n(HT20) MCH\_2437MHz\_Ant1 (SISO) NTNV

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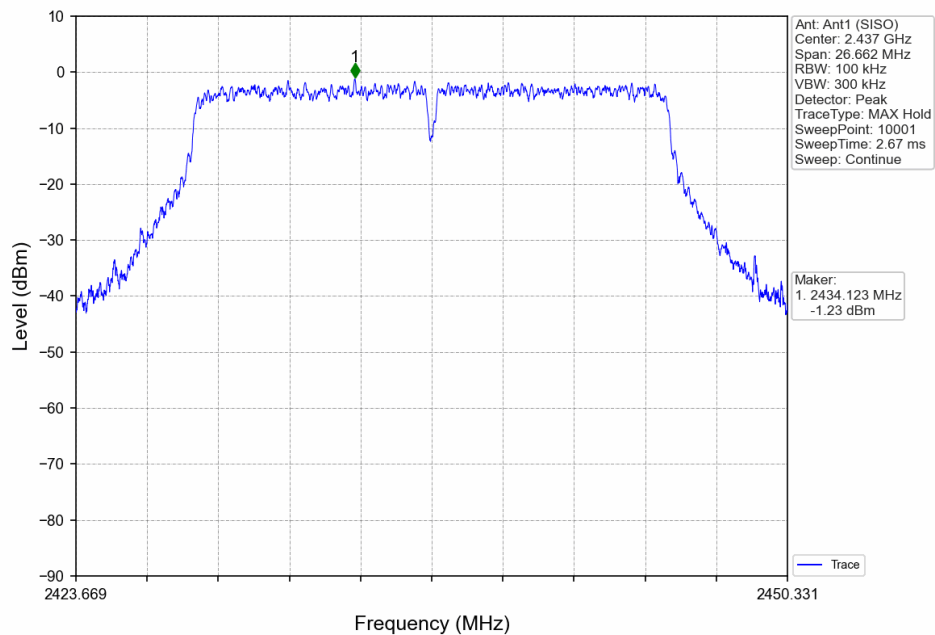
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802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV

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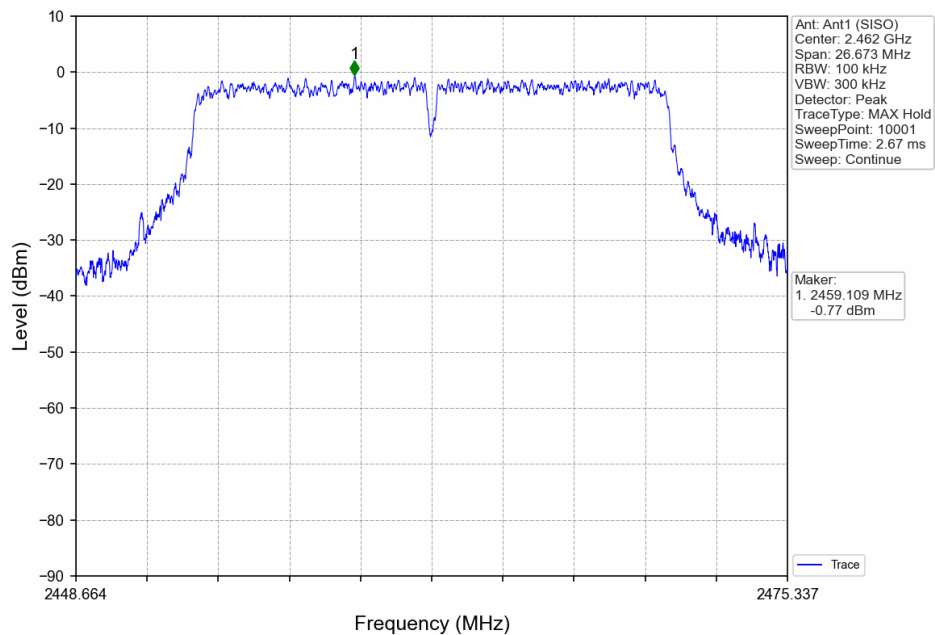
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802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV

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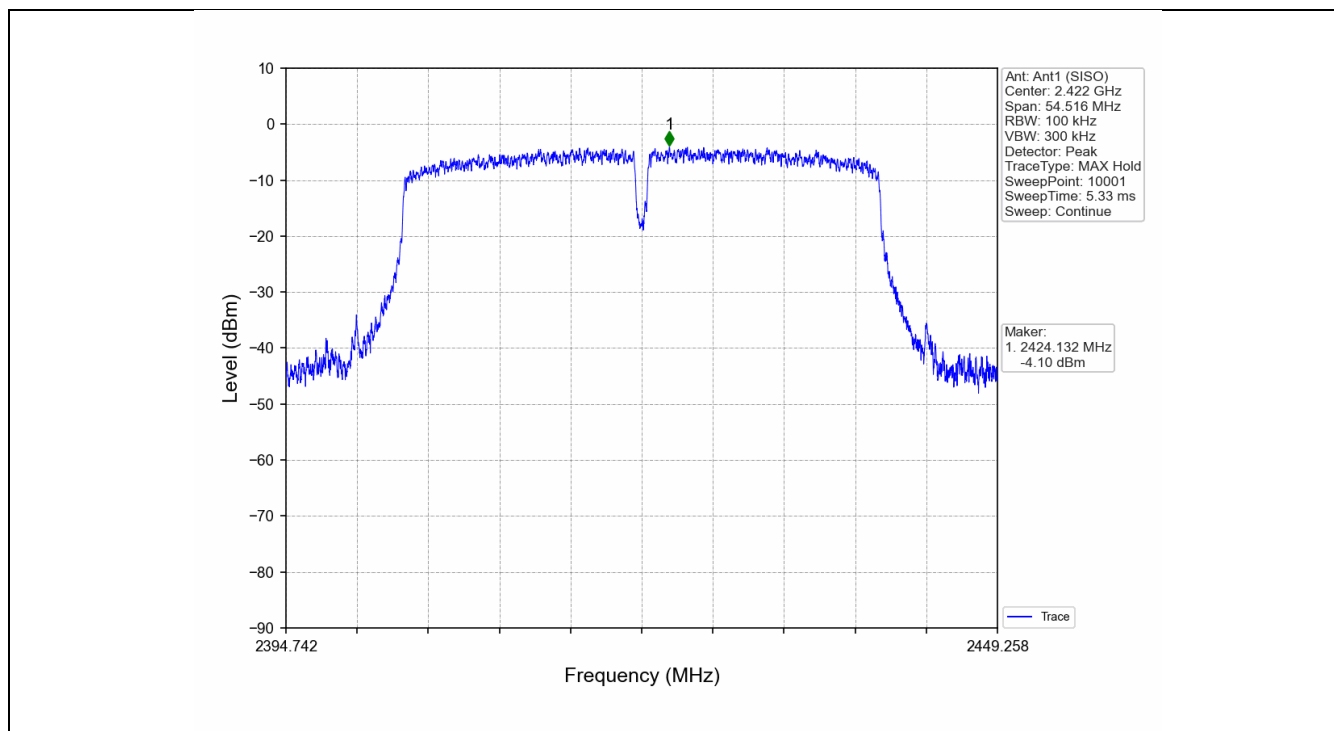
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802.11n(HT40) MCH\_2437MHz Ant1 (SISO) NTNV

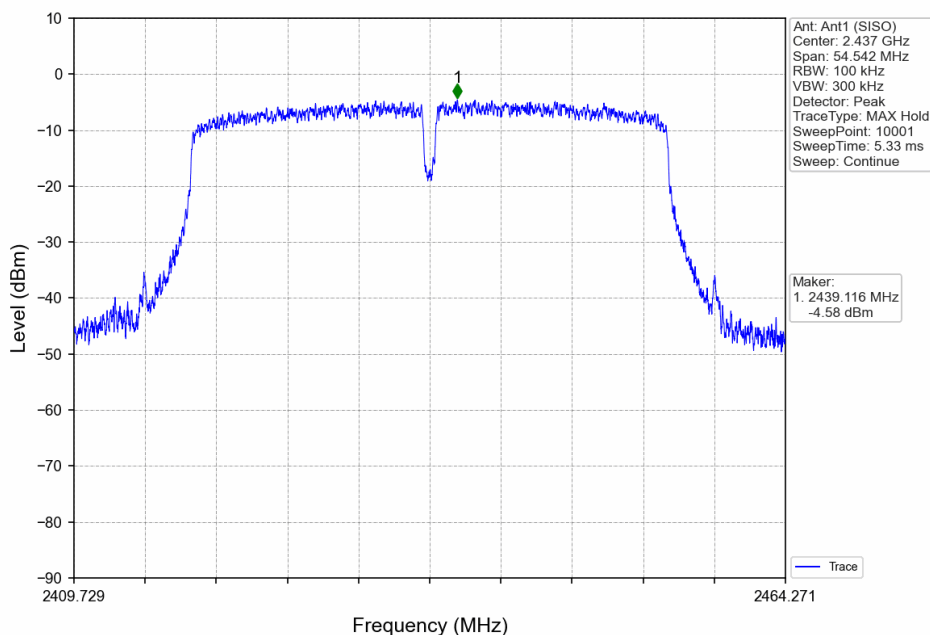


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802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTNV



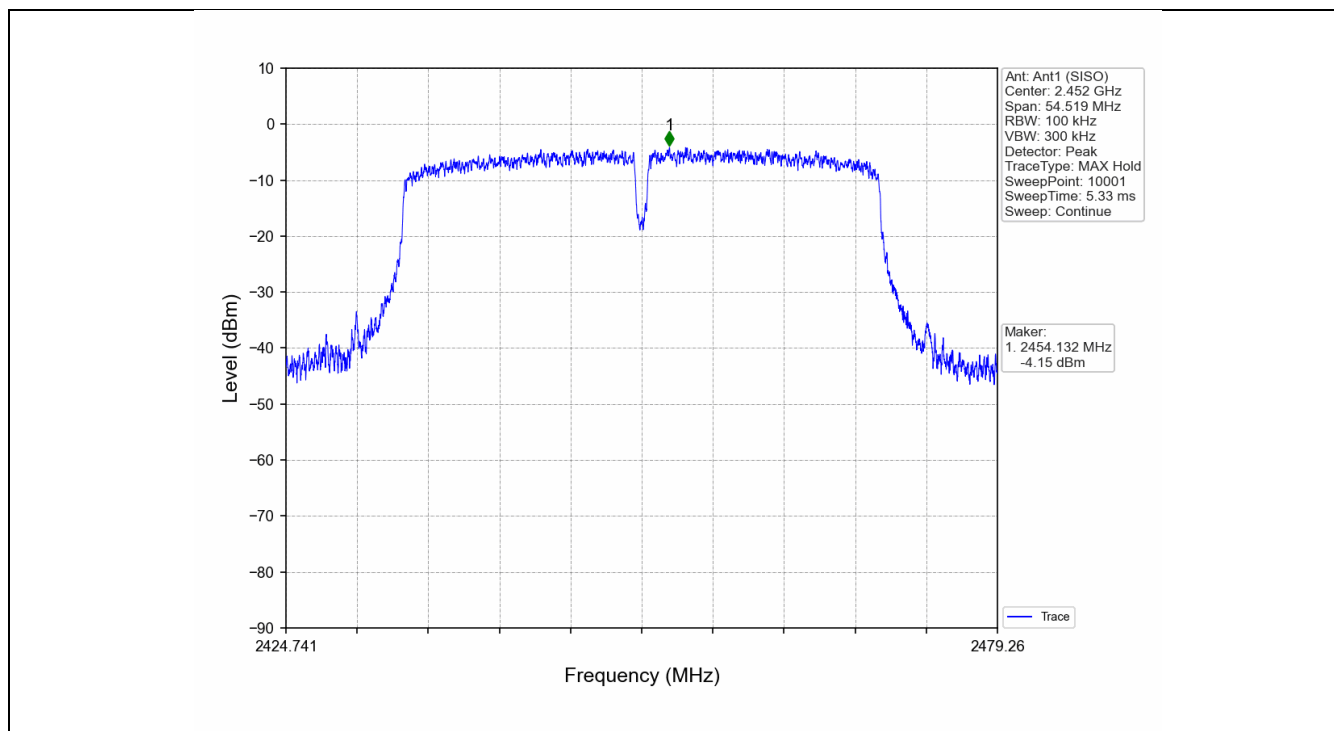
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## 5.2 CSE

### 5.2.1 Test Result

| Mode           | TX Type | Frequency (MHz) | Ant | Level of Reference (dBm) | Limit (dBm) | Verdict |
|----------------|---------|-----------------|-----|--------------------------|-------------|---------|
| 802.11b        | SISO    | 2412            | 1   | 6.95                     | -13.05      | Pass    |
|                |         | 2437            | 1   | 6.95                     | -13.05      | Pass    |
|                |         | 2462            | 1   | 6.95                     | -13.05      | Pass    |
| 802.11g        | SISO    | 2412            | 1   | -0.86                    | -20.86      | Pass    |
|                |         | 2437            | 1   | -0.86                    | -20.86      | Pass    |
|                |         | 2462            | 1   | -0.86                    | -20.86      | Pass    |
| 802.11n (HT20) | SISO    | 2412            | 1   | -0.77                    | -20.77      | Pass    |
|                |         | 2437            | 1   | -0.77                    | -20.77      | Pass    |
|                |         | 2462            | 1   | -0.77                    | -20.77      | Pass    |
| 802.11n (HT40) | SISO    | 2422            | 1   | -4.10                    | -24.10      | Pass    |
|                |         | 2437            | 1   | -4.10                    | -24.10      | Pass    |
|                |         | 2452            | 1   | -4.10                    | -24.10      | 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.

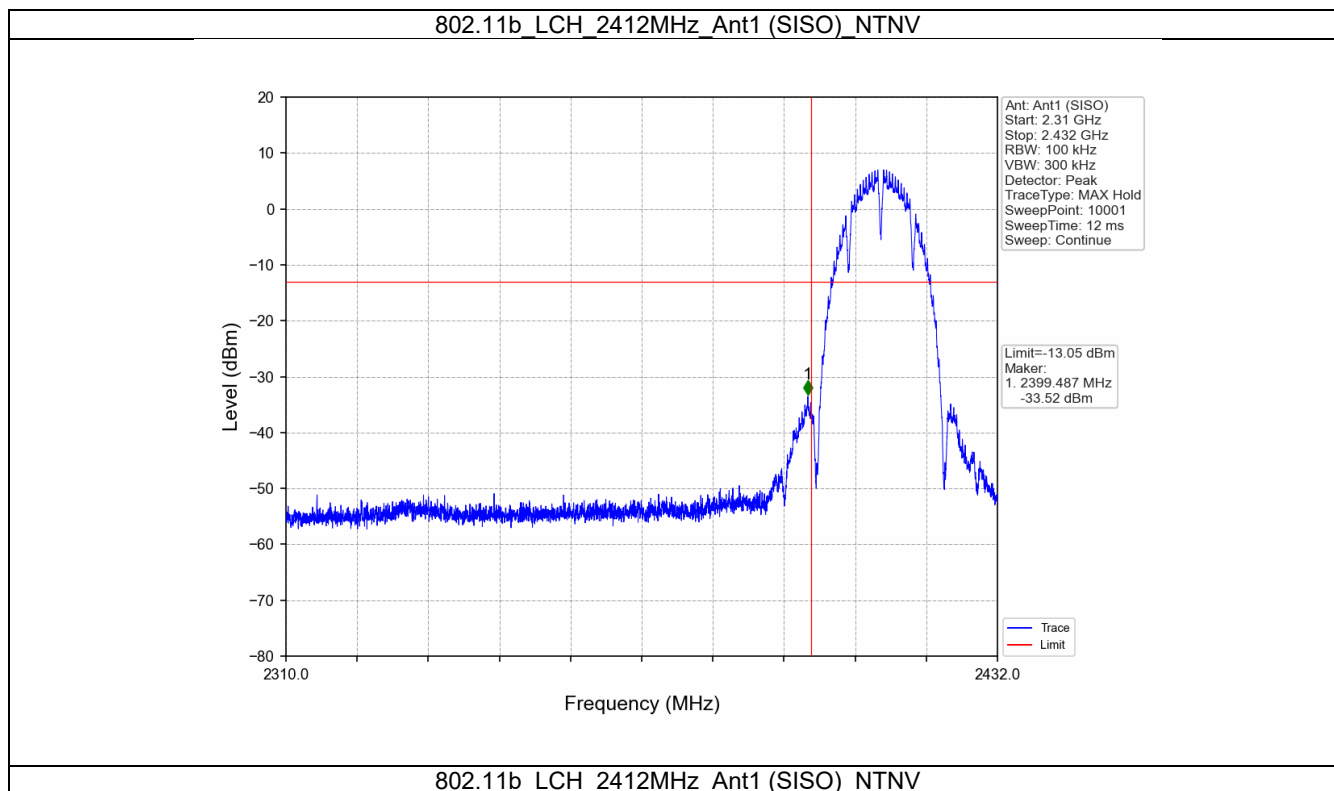


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## 5.2.2 Test Graph



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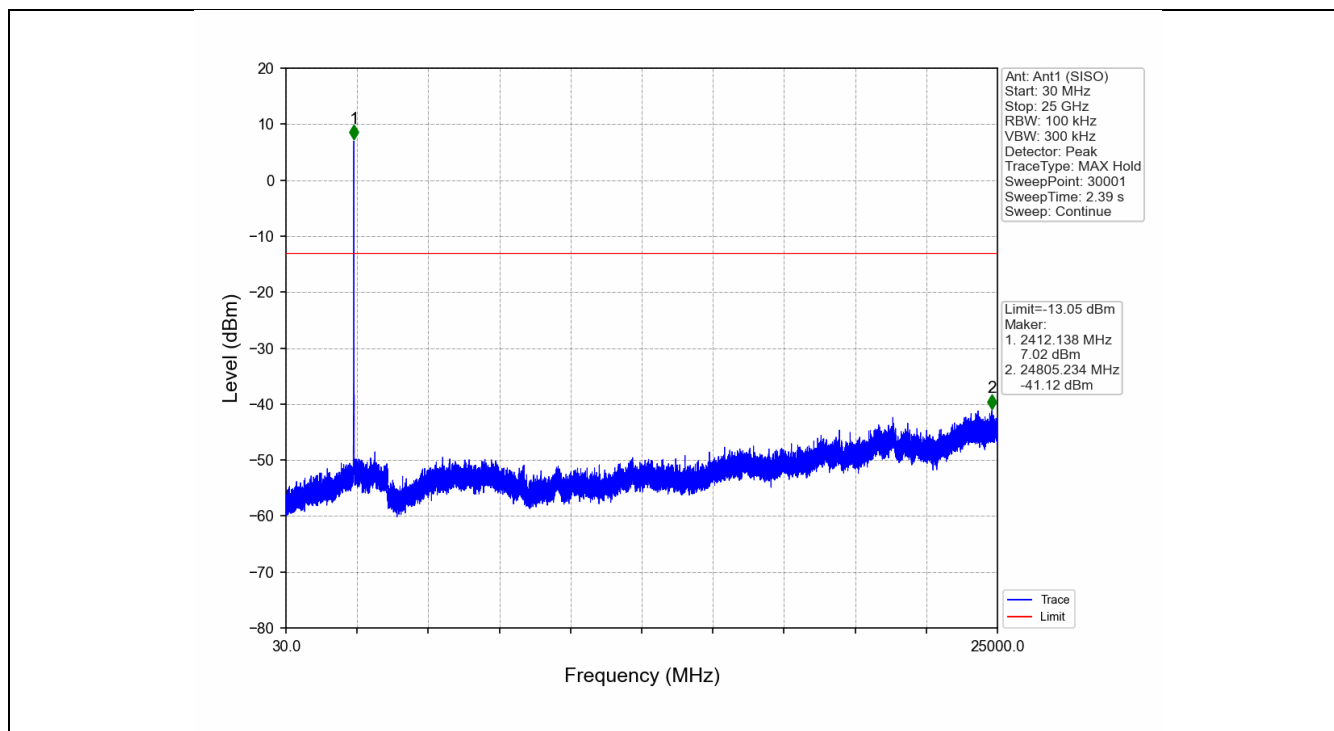
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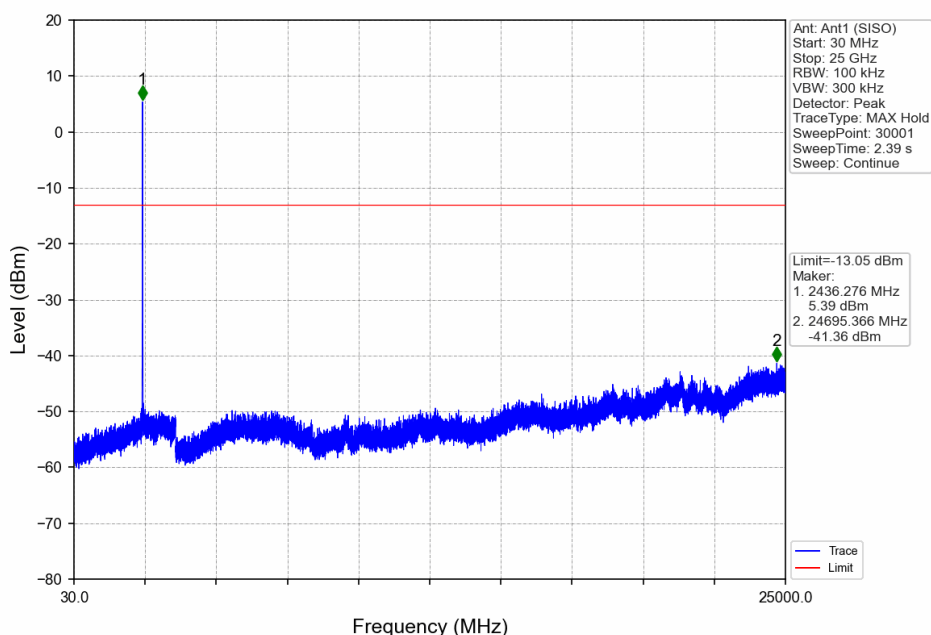


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## 802.11b\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



## 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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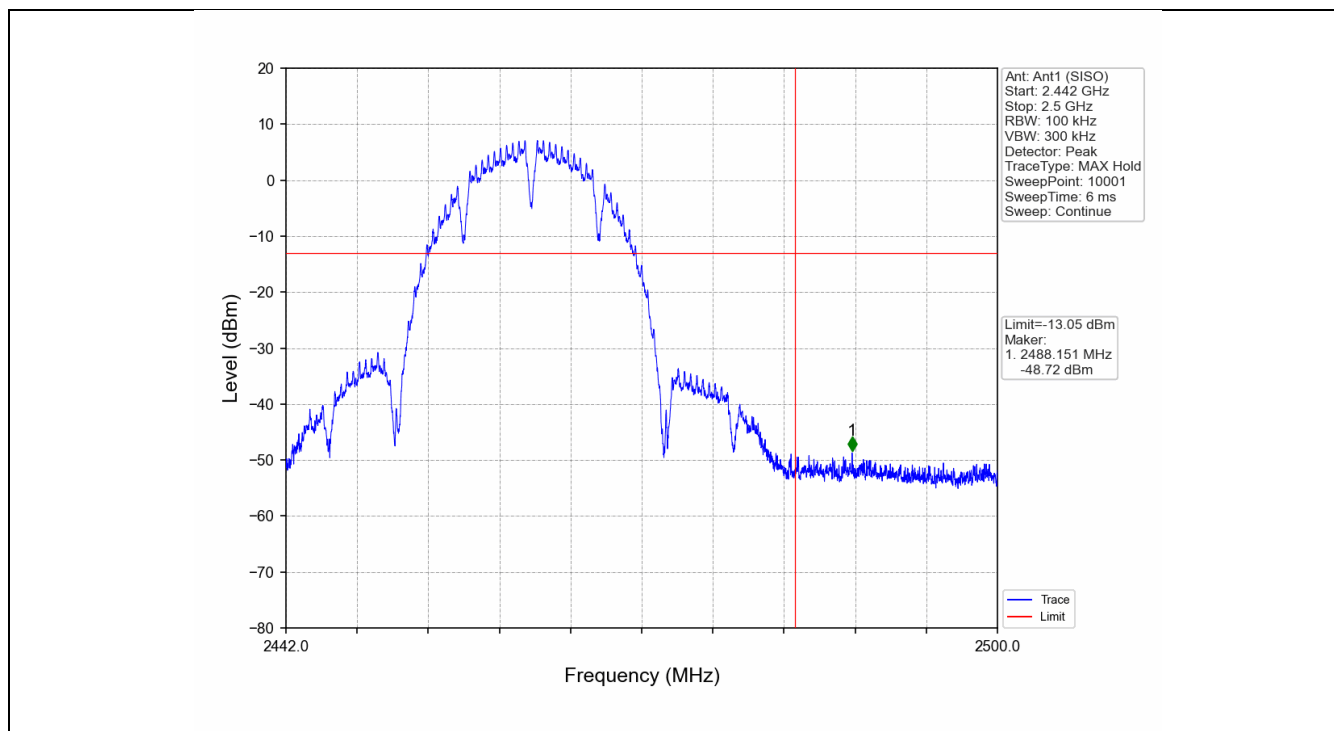
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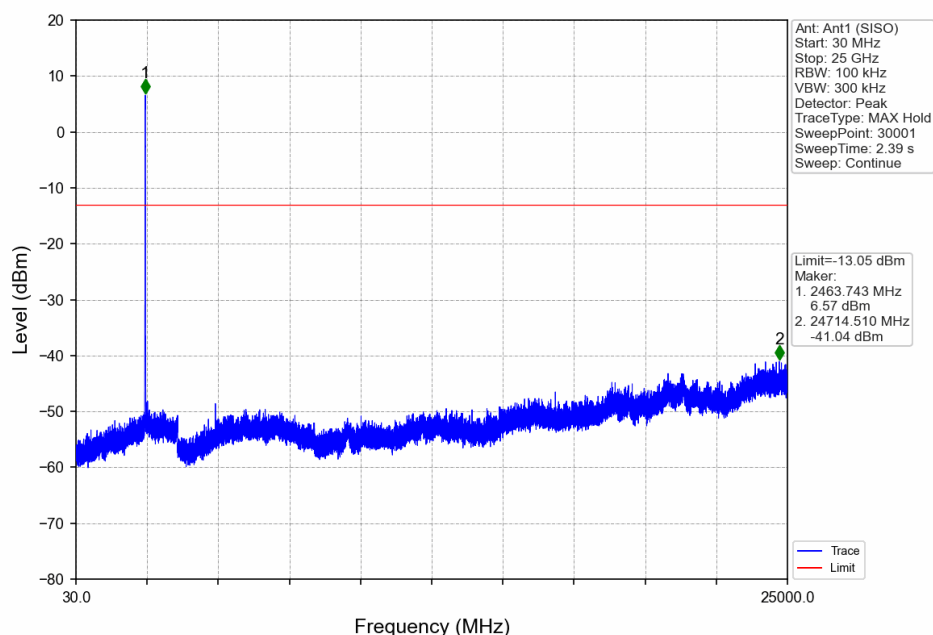
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## 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

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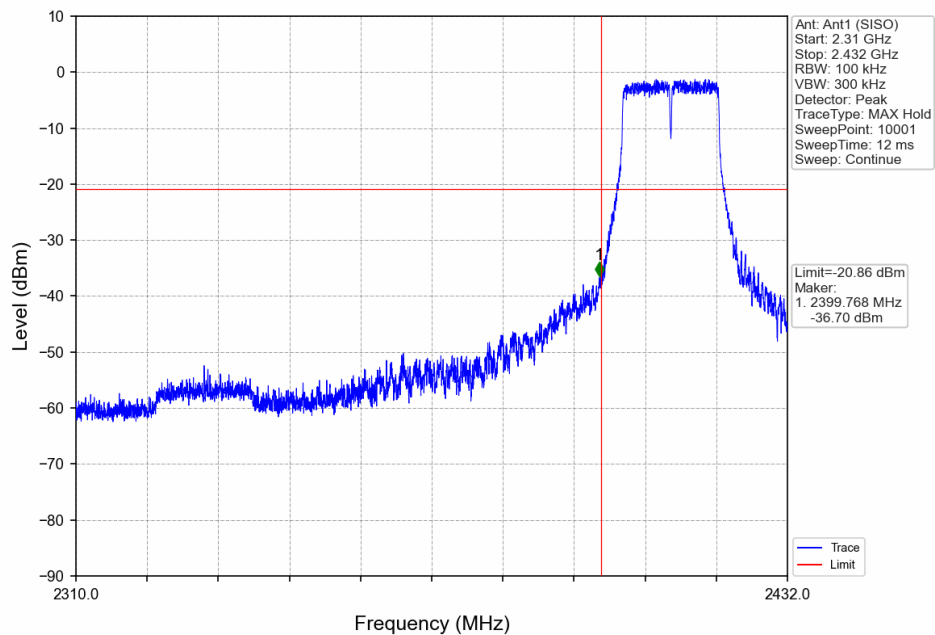
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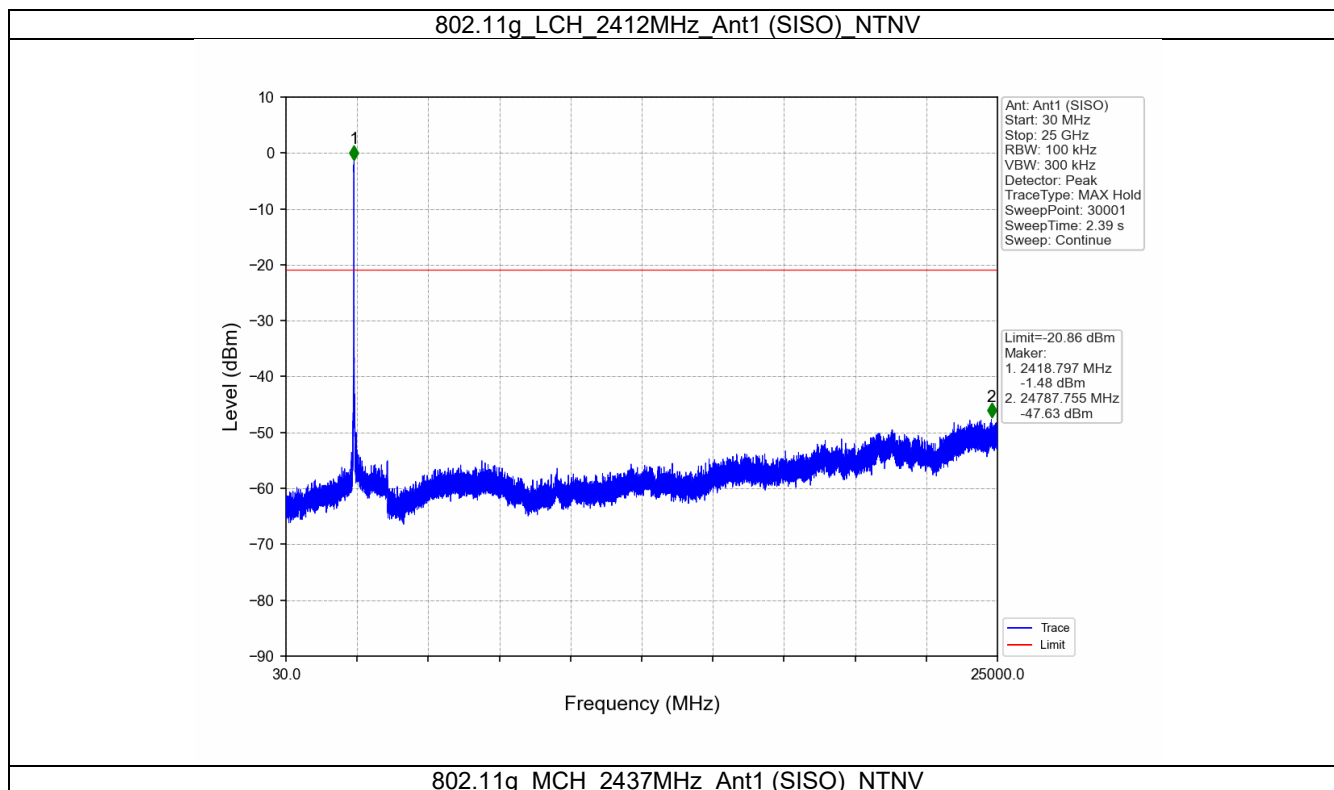
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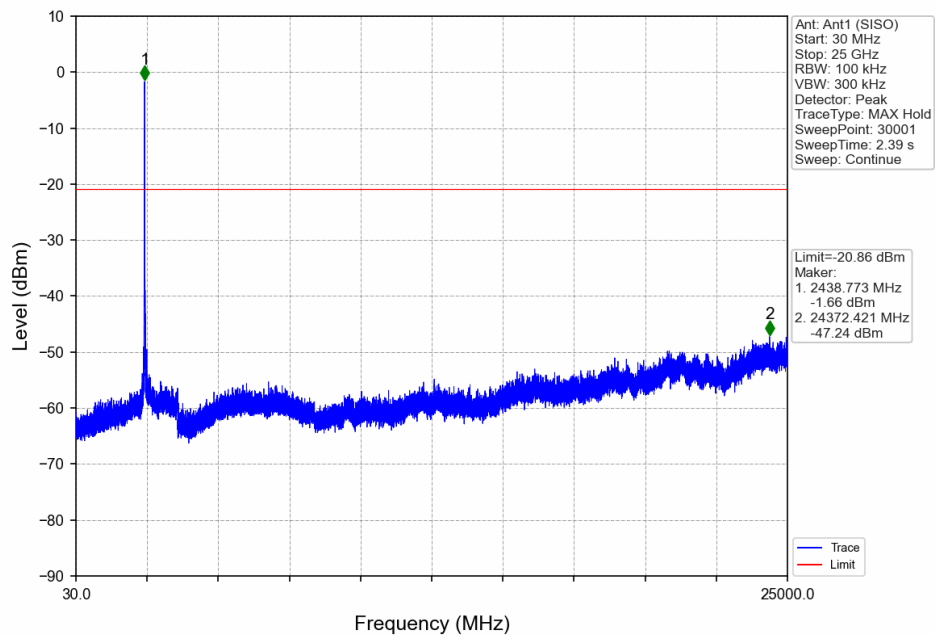
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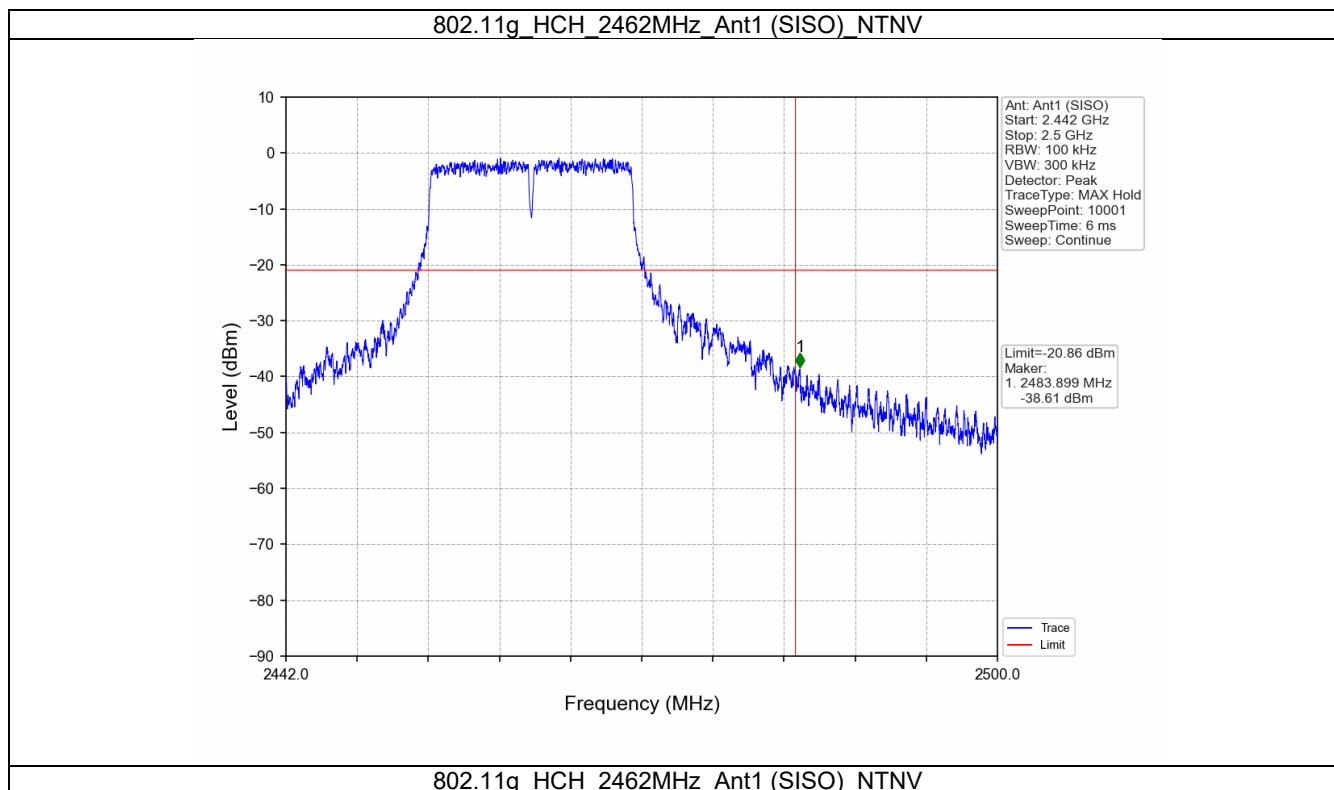
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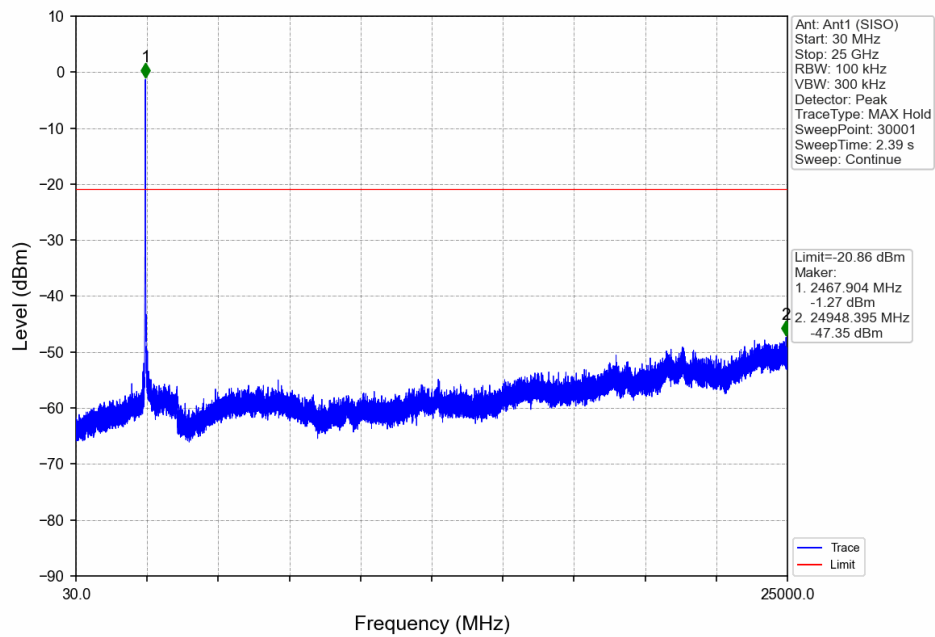
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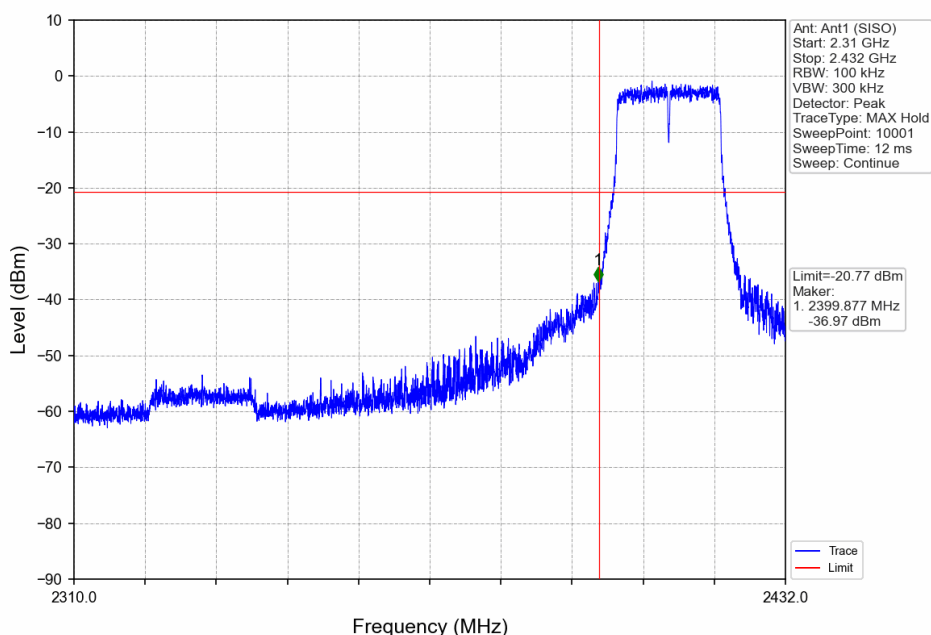
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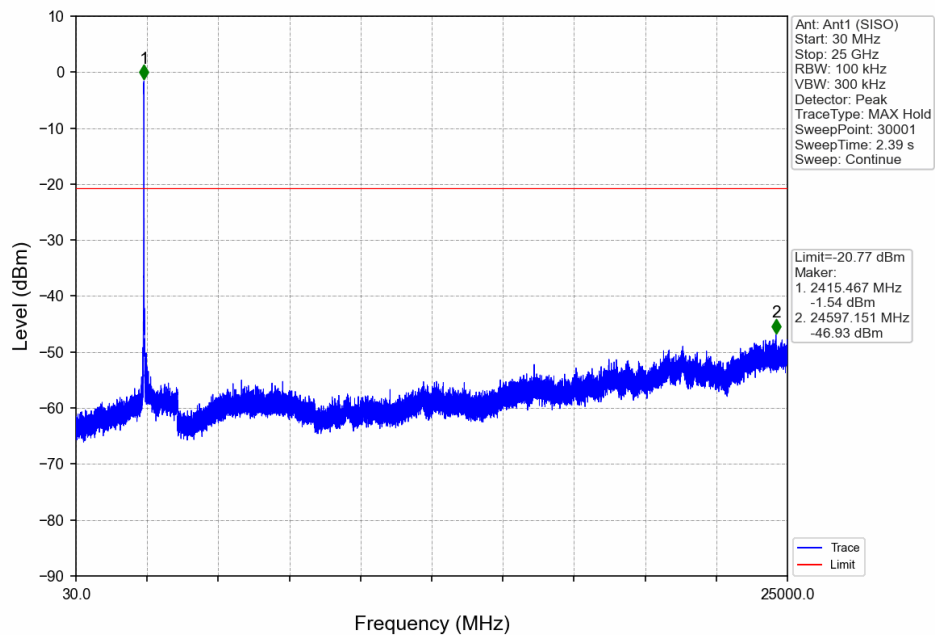
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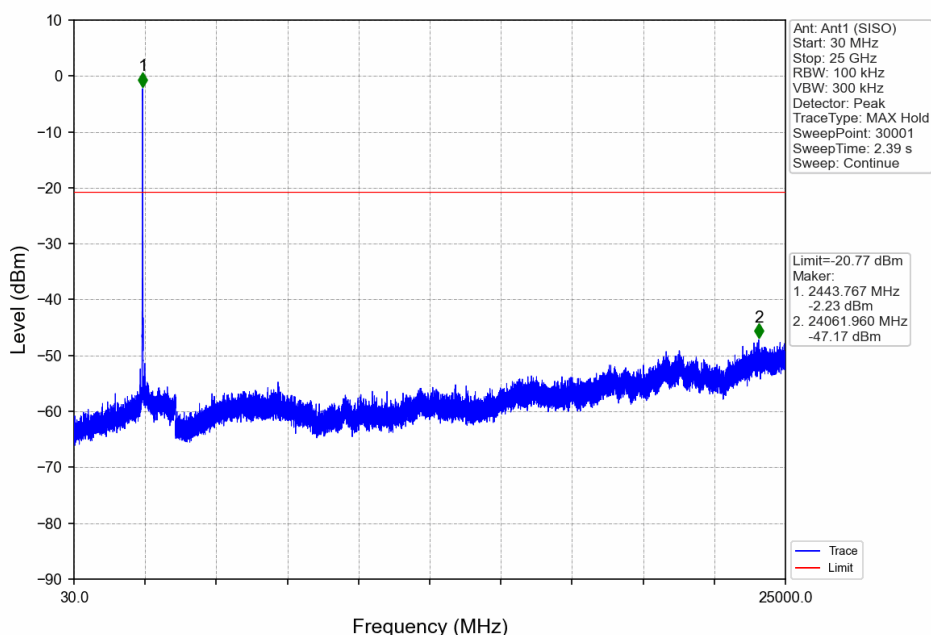
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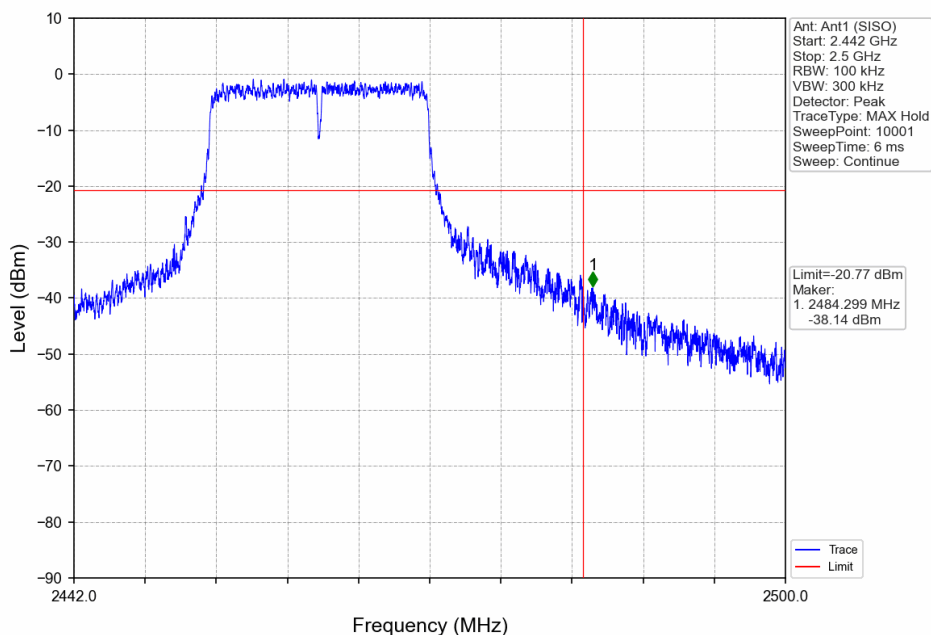
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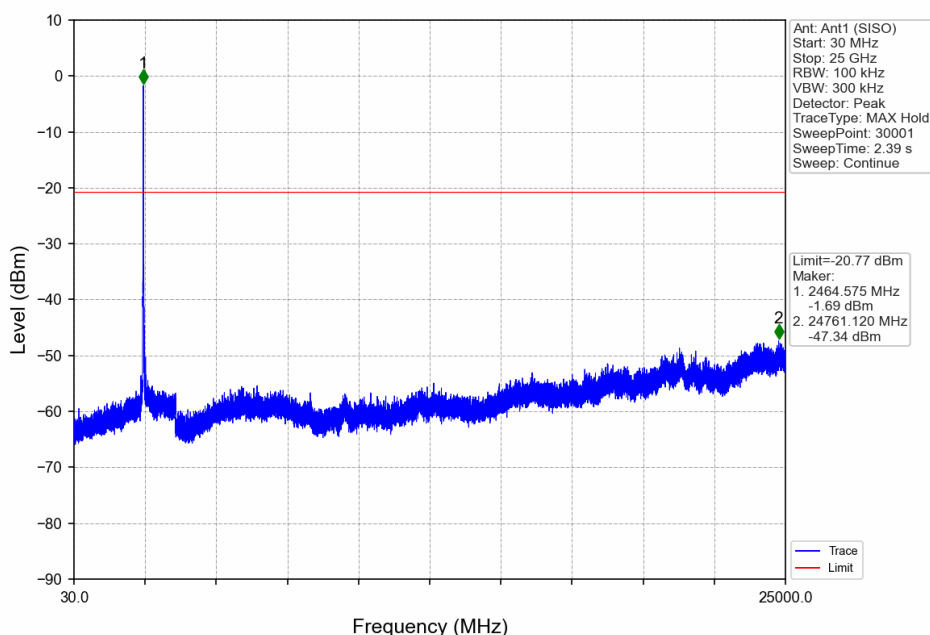
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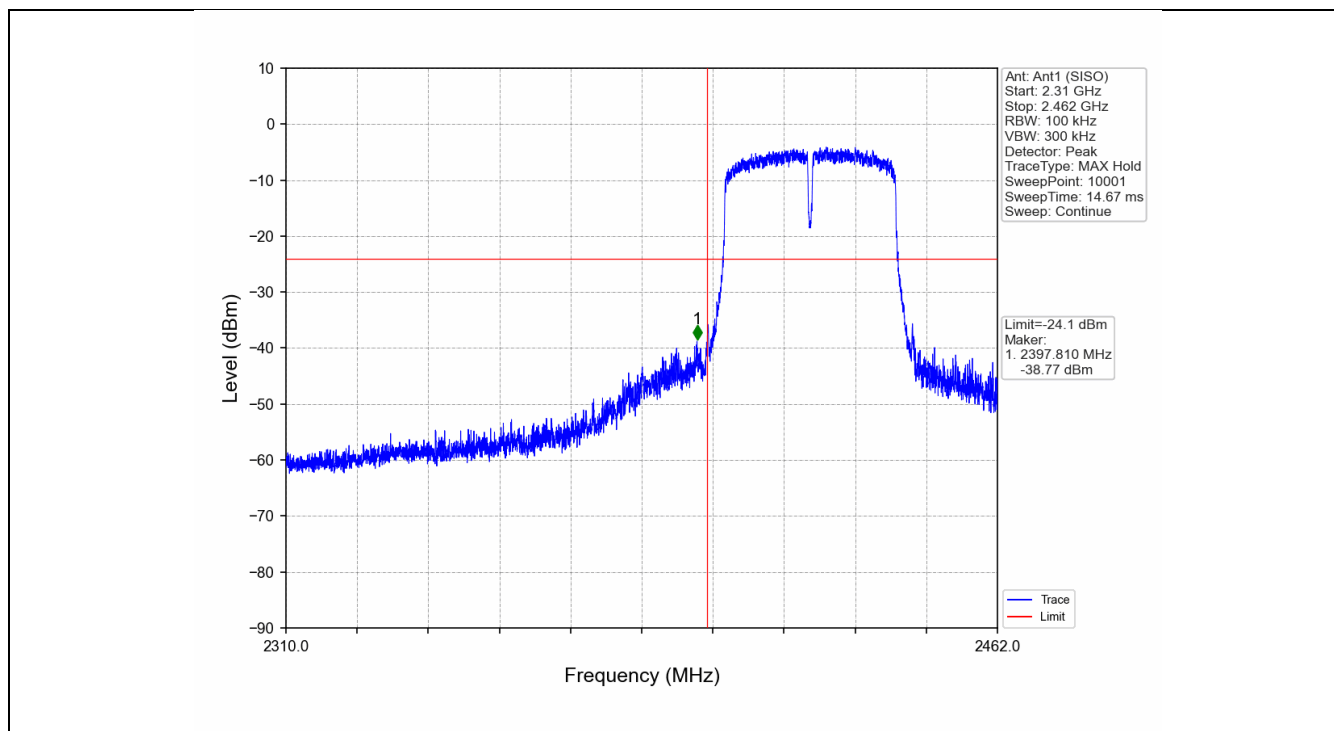
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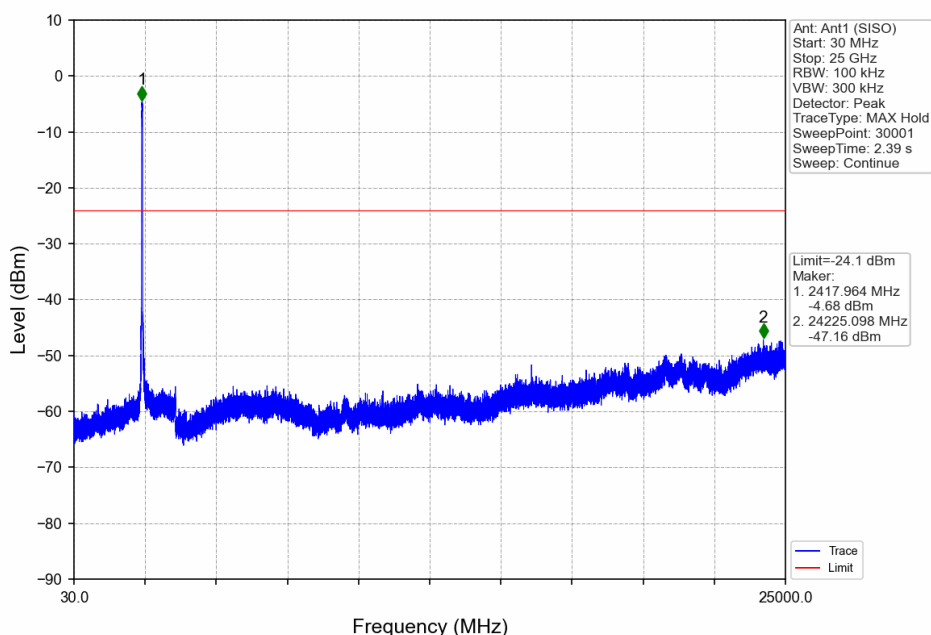


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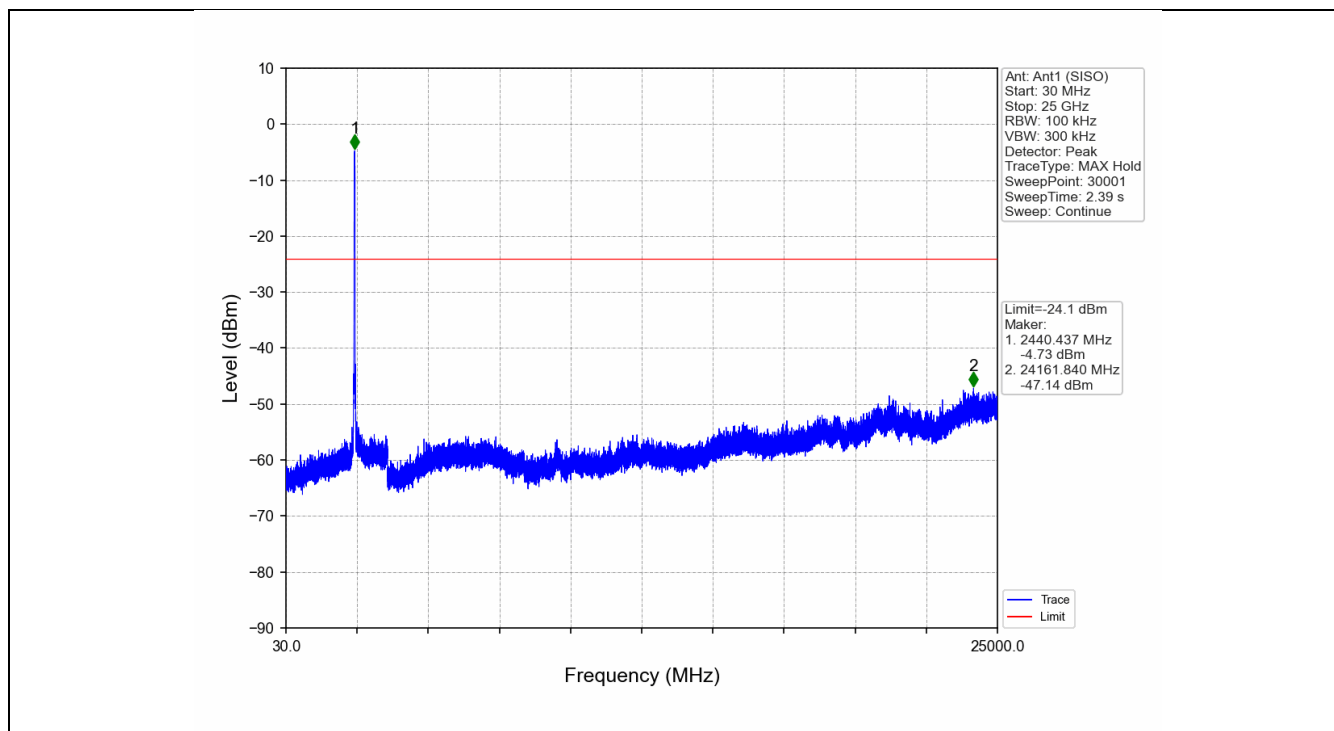
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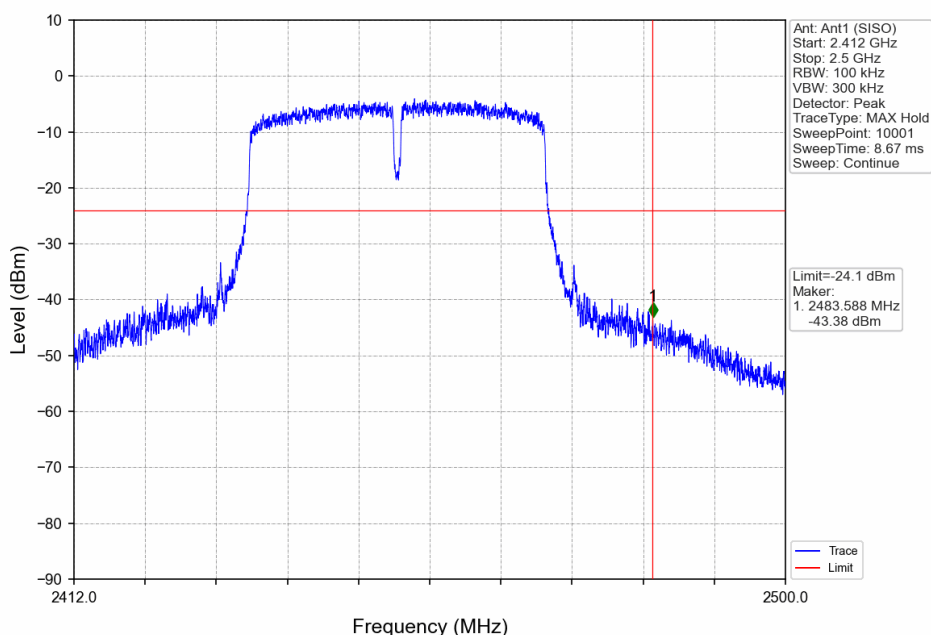


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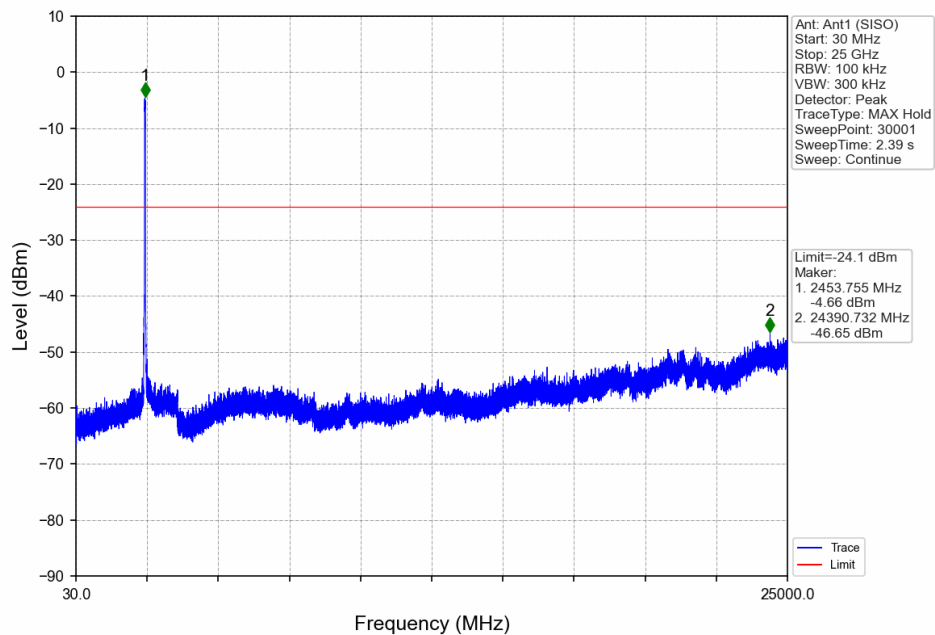
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