



## Appendix A for KSEM210800150701

## 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            | 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                  |

## 1.1.2 Test Graph

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

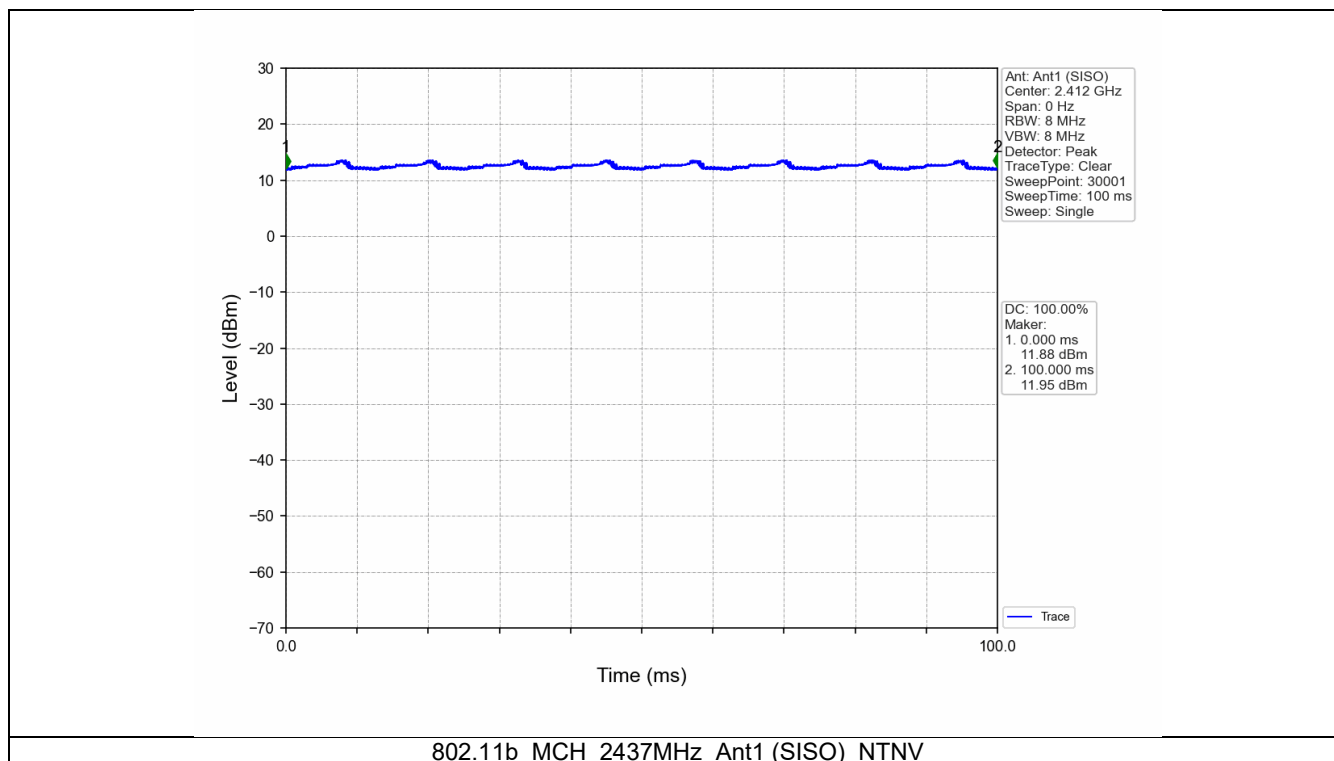


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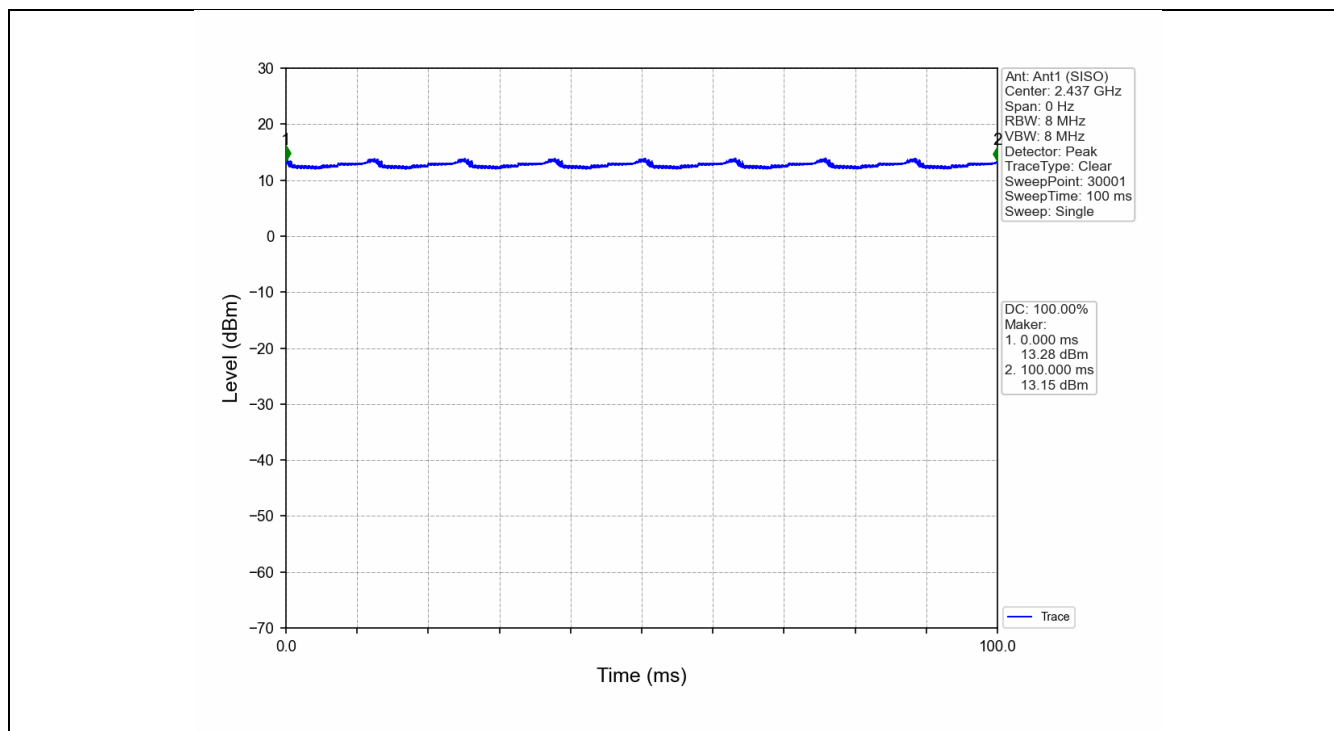
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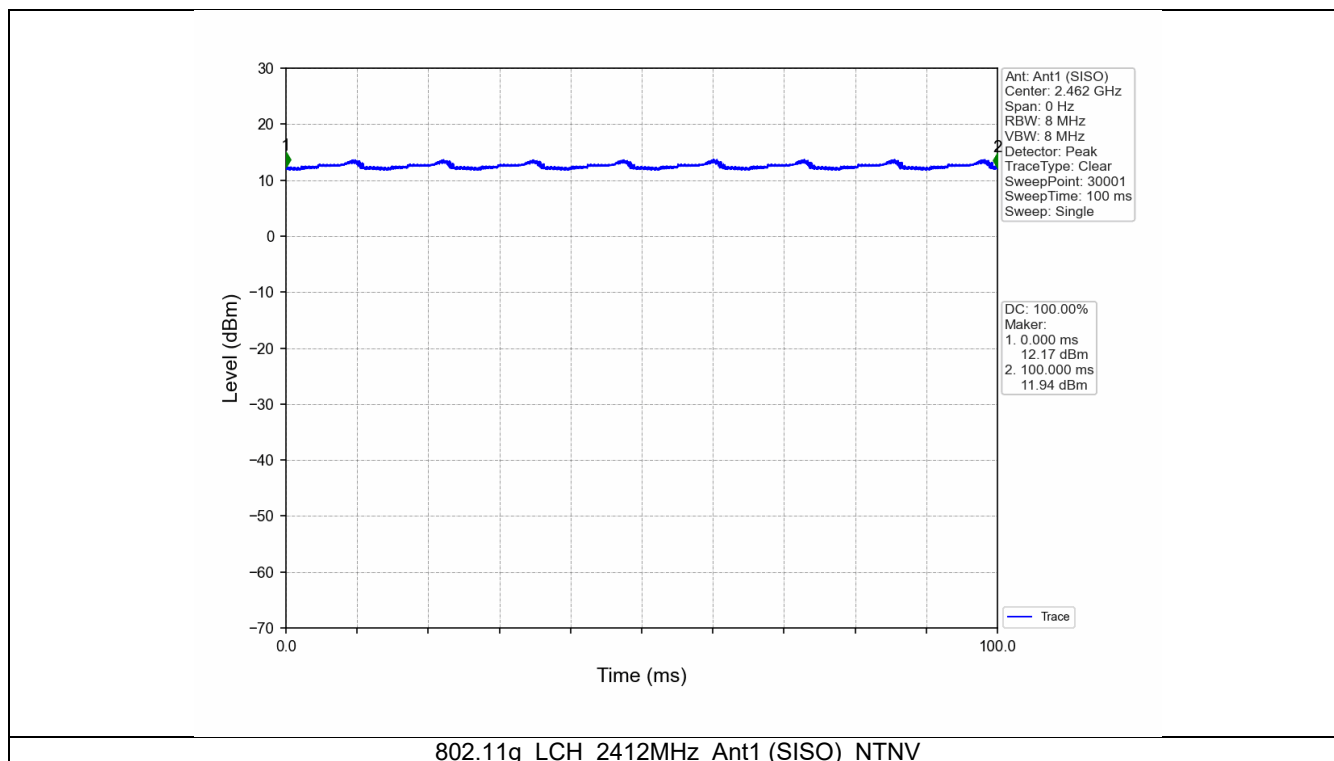
802.11b HCH 2462MHz Ant1 (SISO) NTNv



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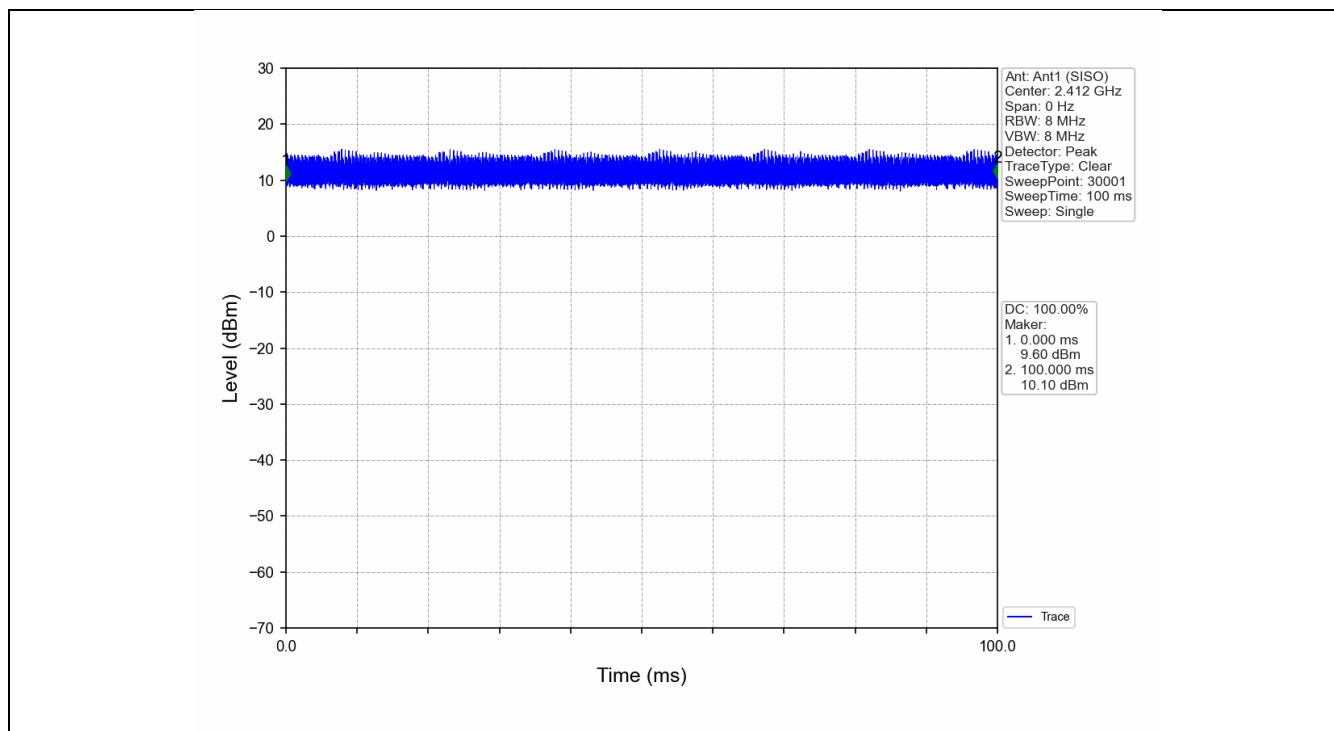


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802.11g MCH 2437MHz Ant1 (SISO) NTV

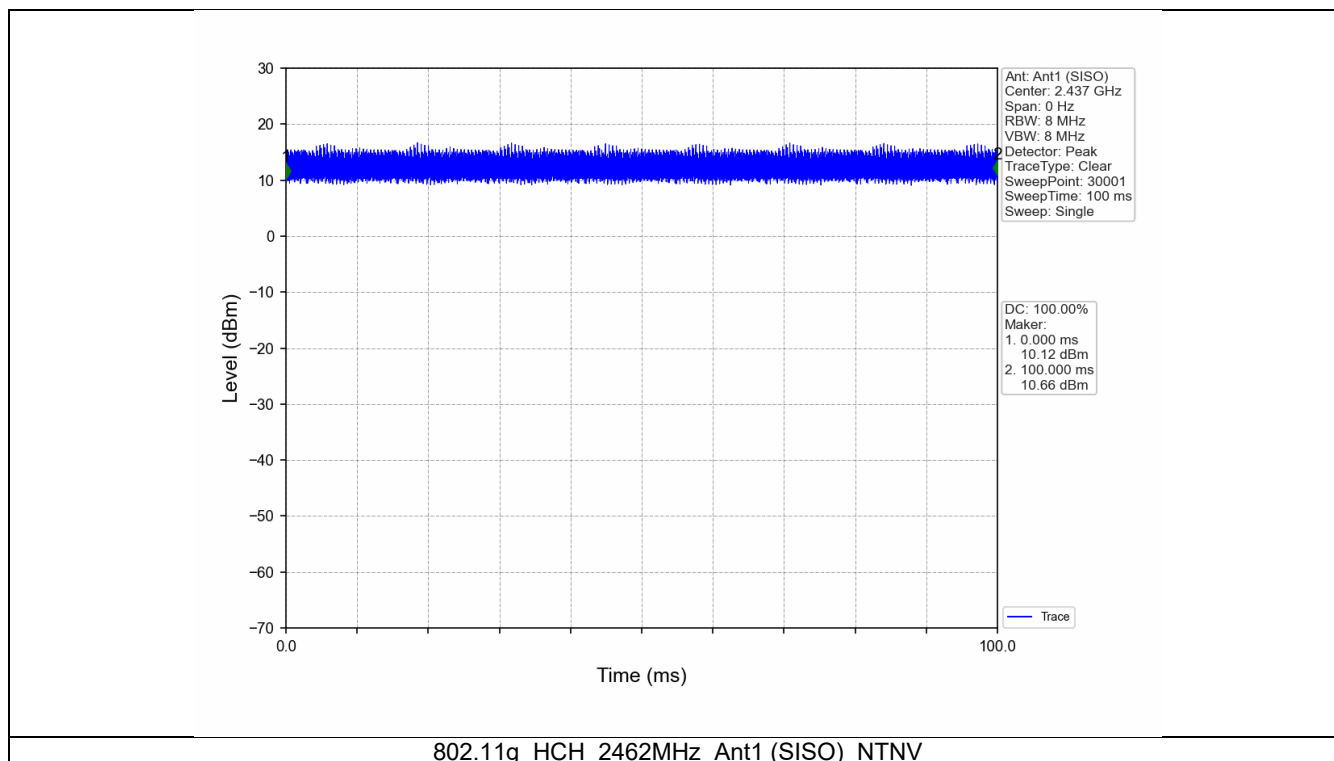


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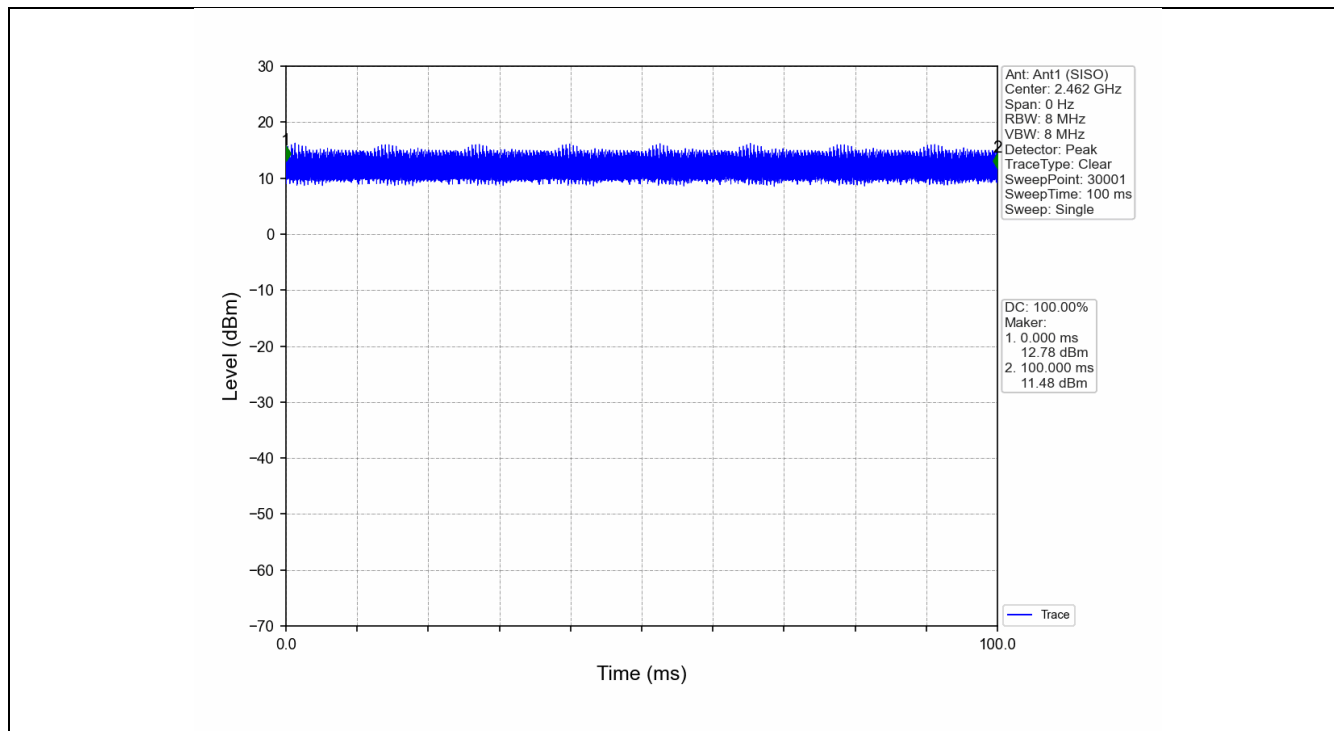
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802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV

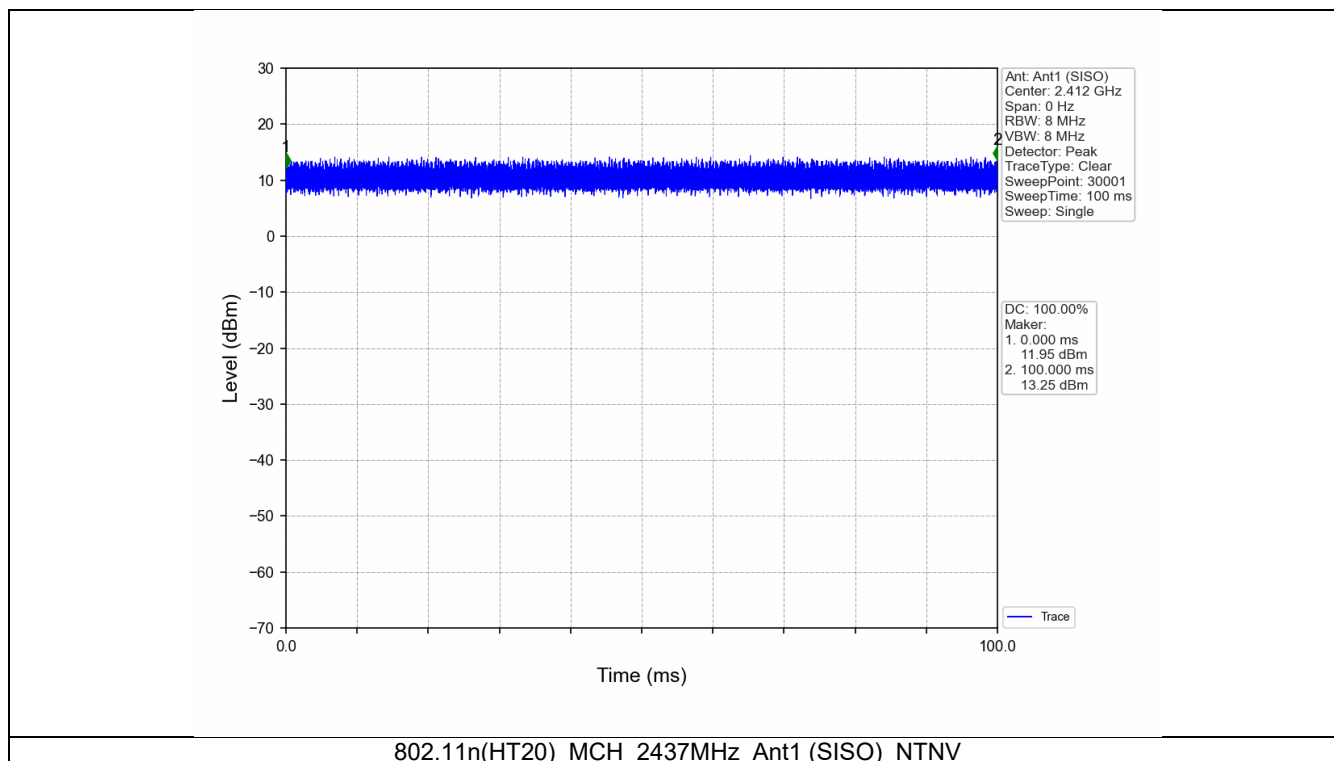


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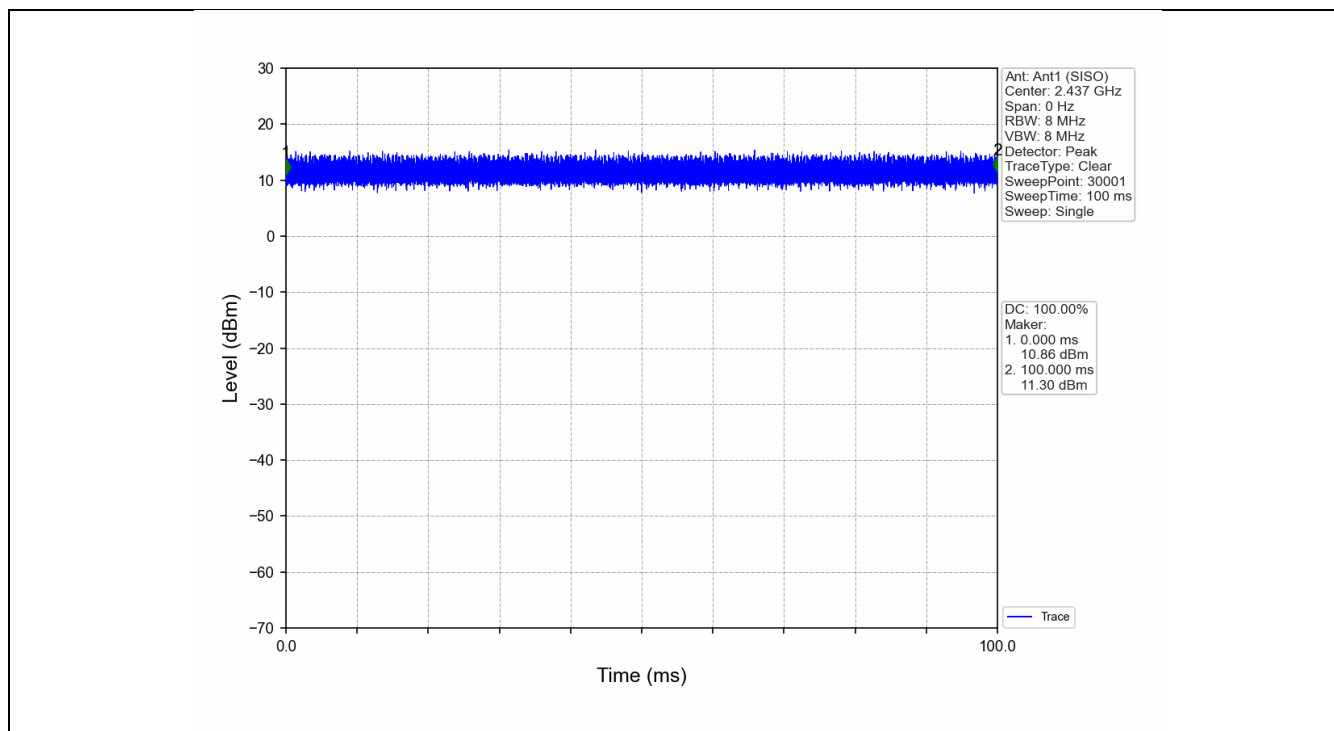
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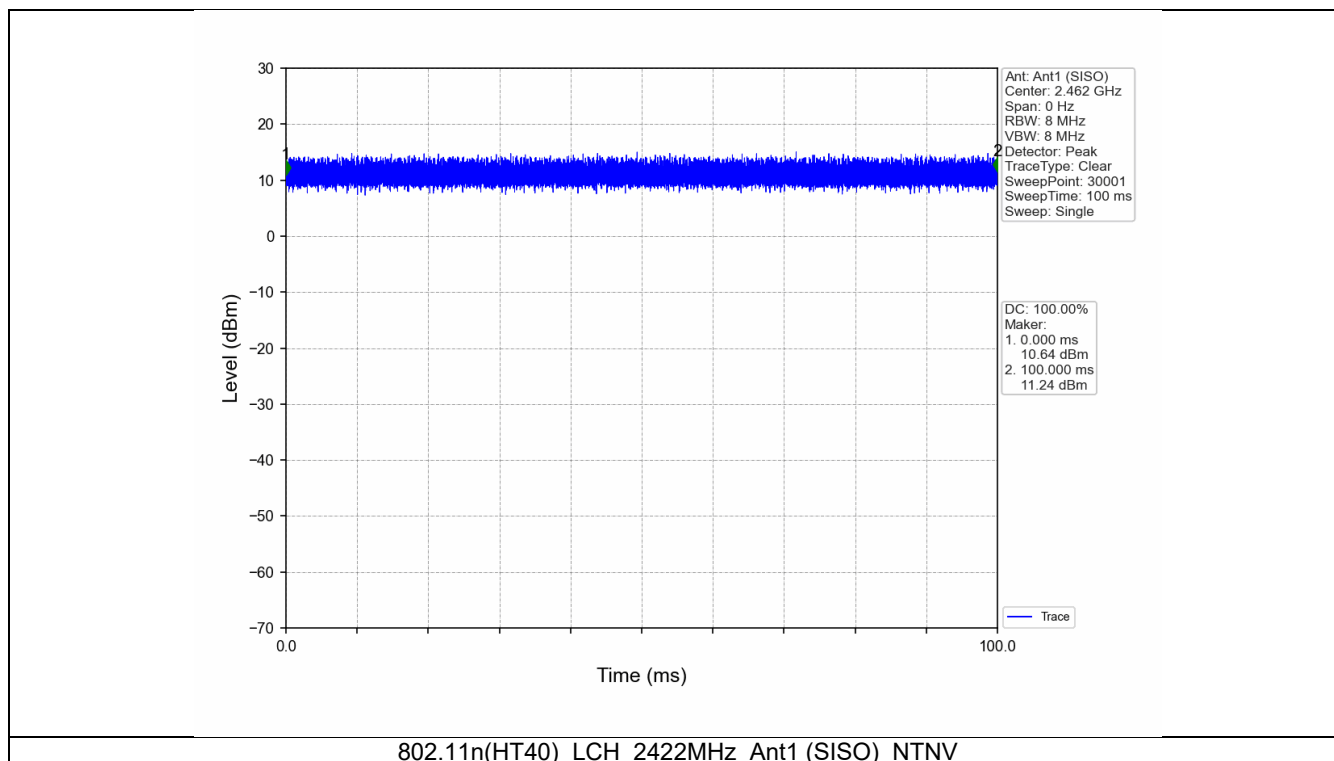


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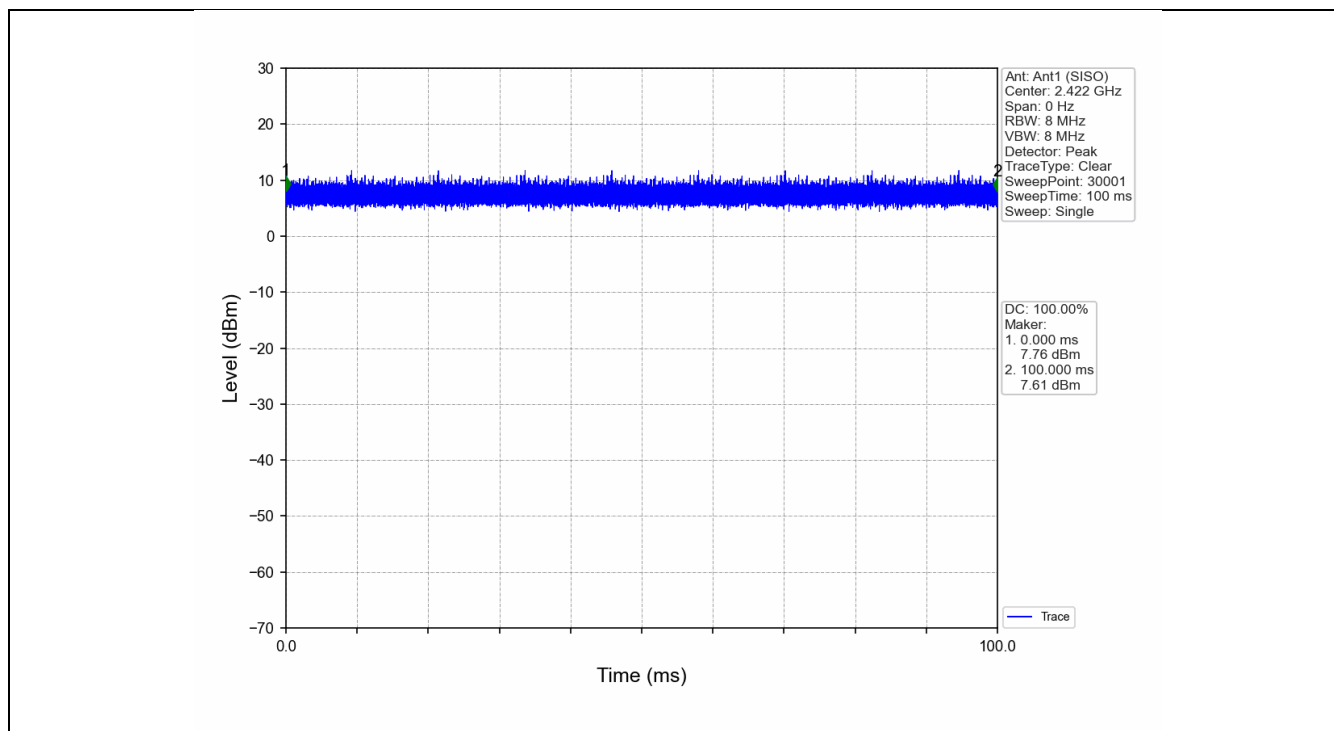


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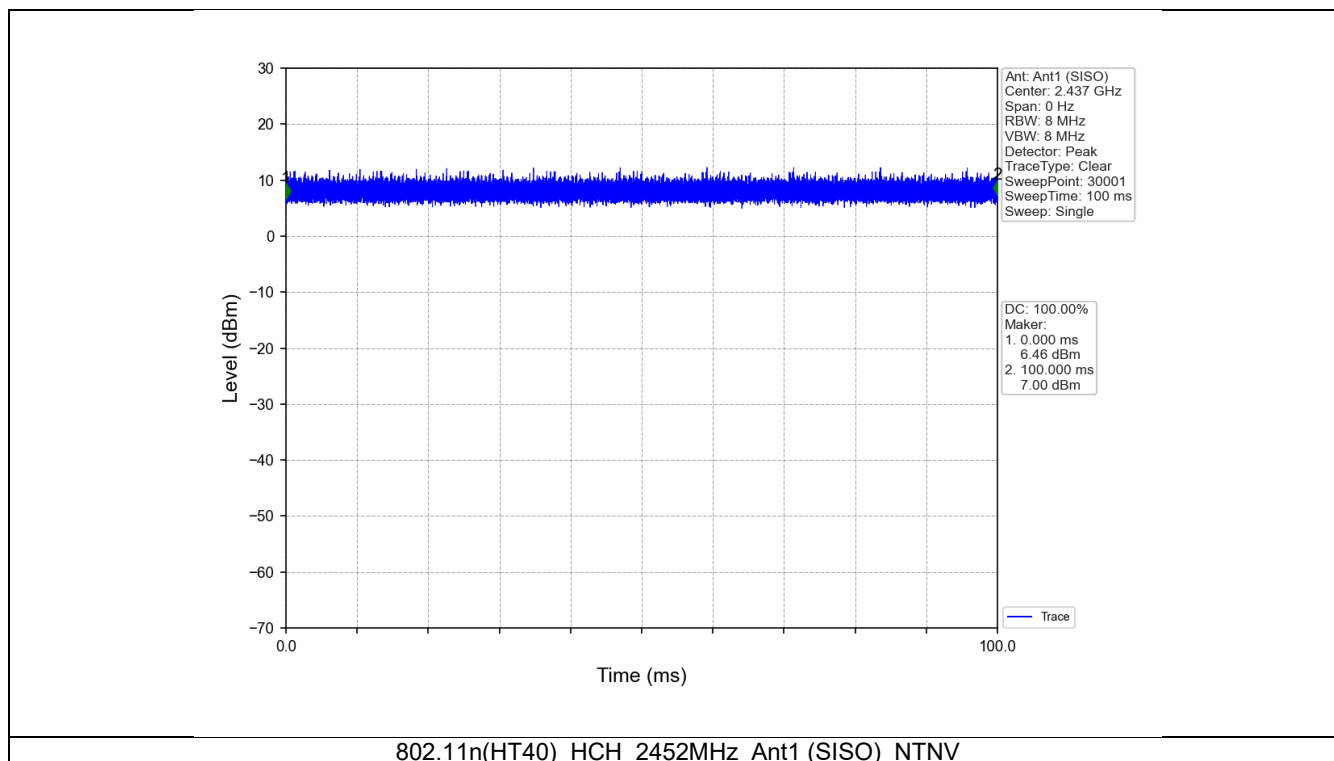


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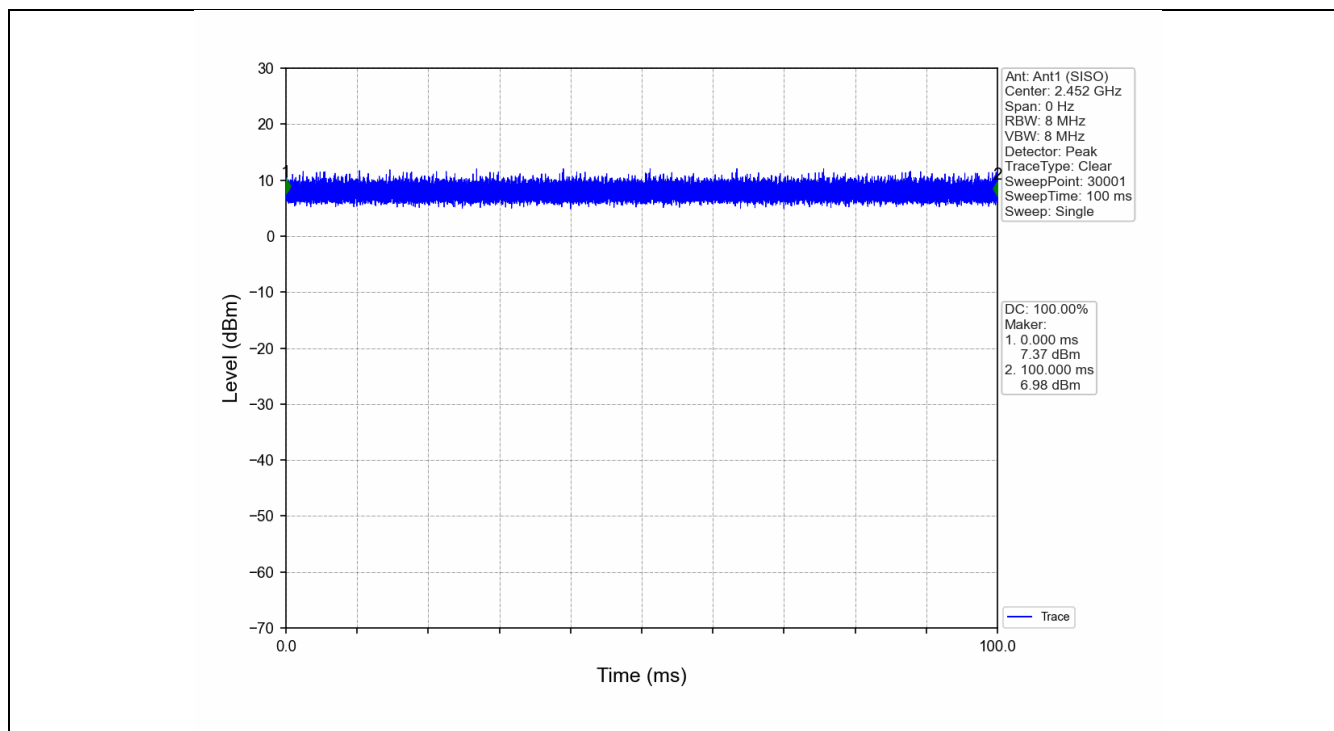


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## 2. Bandwidth

### 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   | 13.488                       | Pass    |
|                |         | 2437            | 1   | 13.447                       | Pass    |
|                |         | 2462            | 1   | 13.443                       | Pass    |
| 802.11g        | SISO    | 2412            | 1   | 17.533                       | Pass    |
|                |         | 2437            | 1   | 17.537                       | Pass    |
|                |         | 2462            | 1   | 17.577                       | Pass    |
| 802.11n (HT20) | SISO    | 2412            | 1   | 18.389                       | Pass    |
|                |         | 2437            | 1   | 18.383                       | Pass    |
|                |         | 2462            | 1   | 18.398                       | Pass    |
| 802.11n (HT40) | SISO    | 2422            | 1   | 36.712                       | Pass    |
|                |         | 2437            | 1   | 36.717                       | Pass    |
|                |         | 2452            | 1   | 36.764                       | Pass    |



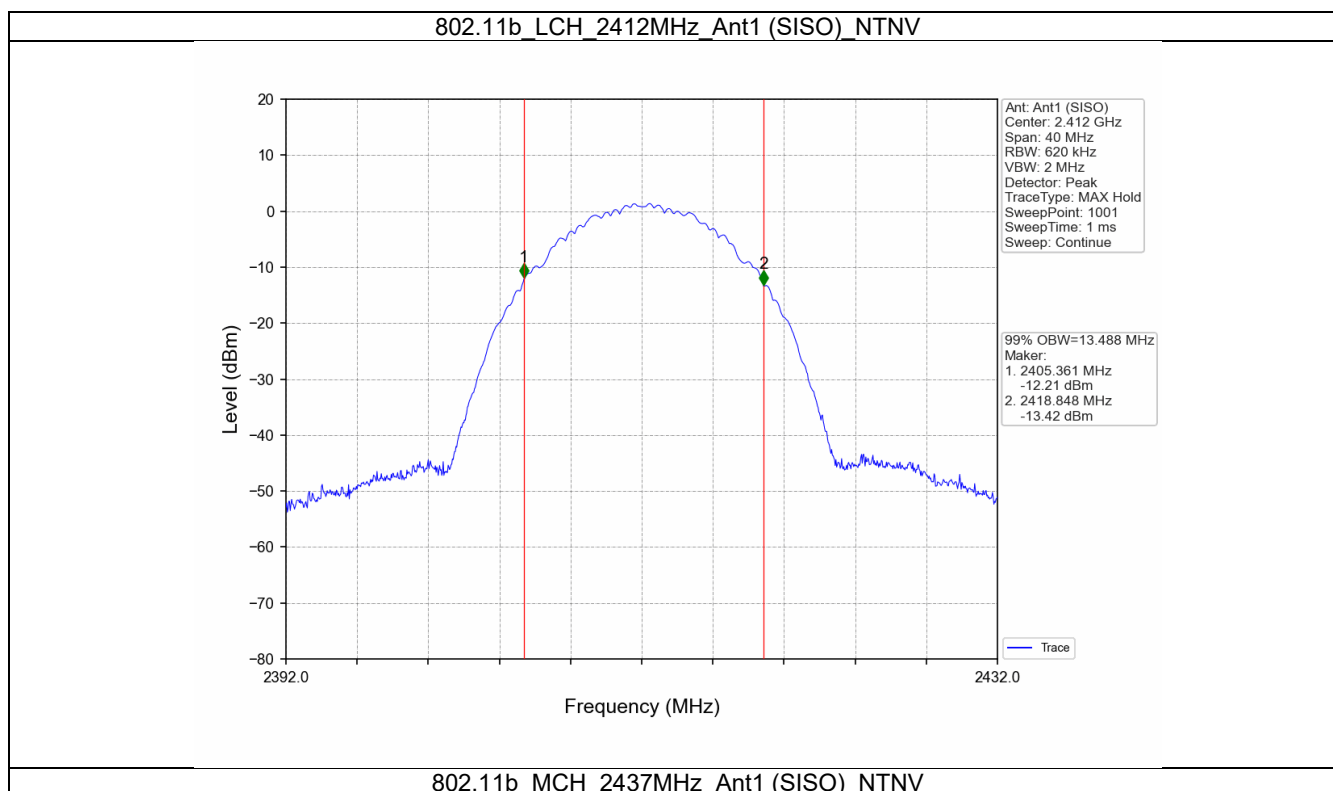
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## 2.1.2 Test Graph



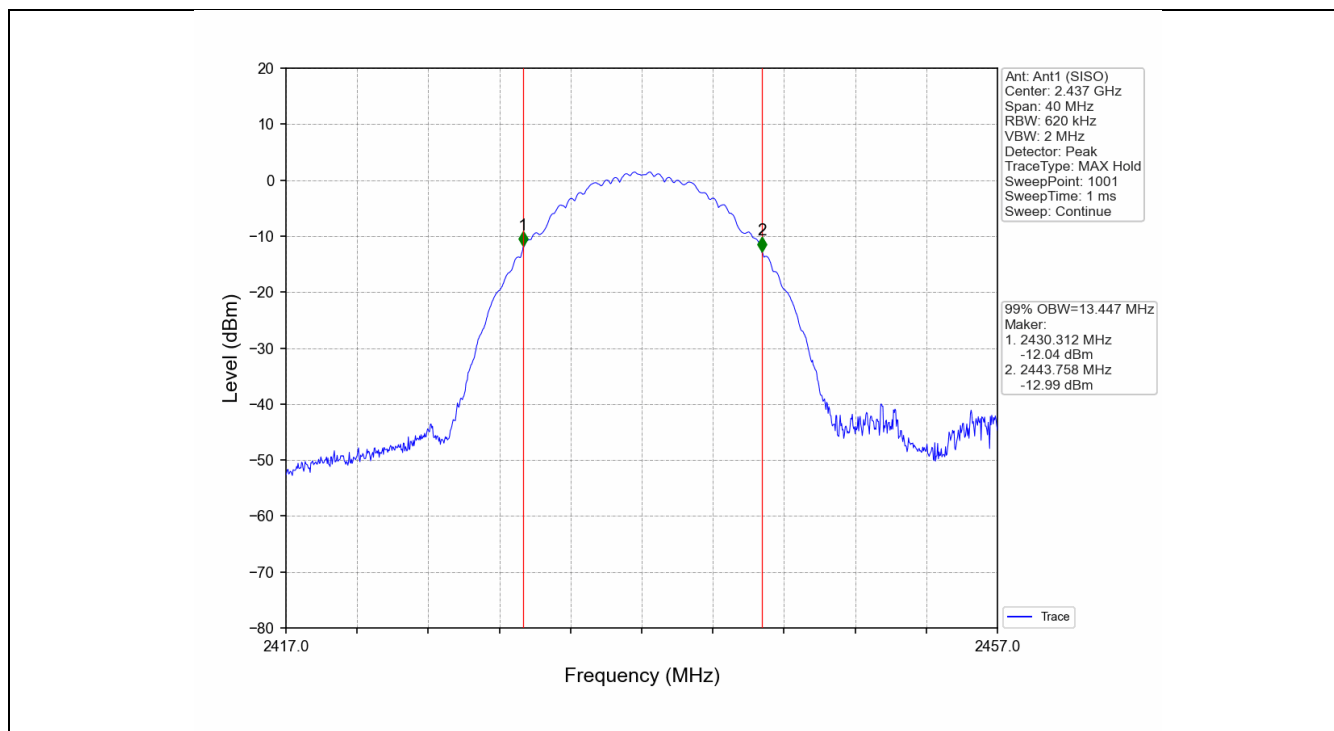
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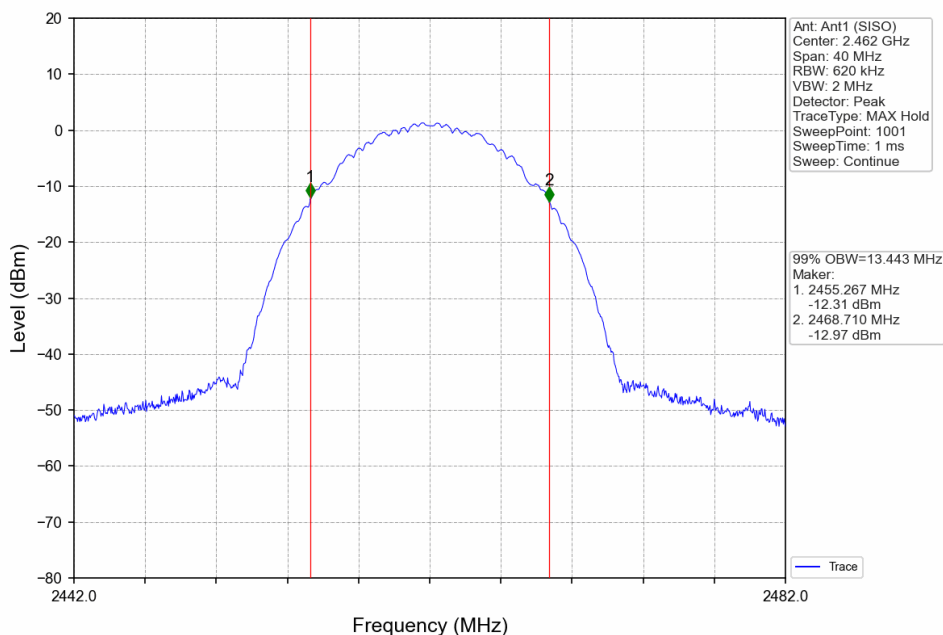
802.11b HCH 2462MHz Ant1 (SISO) NTN



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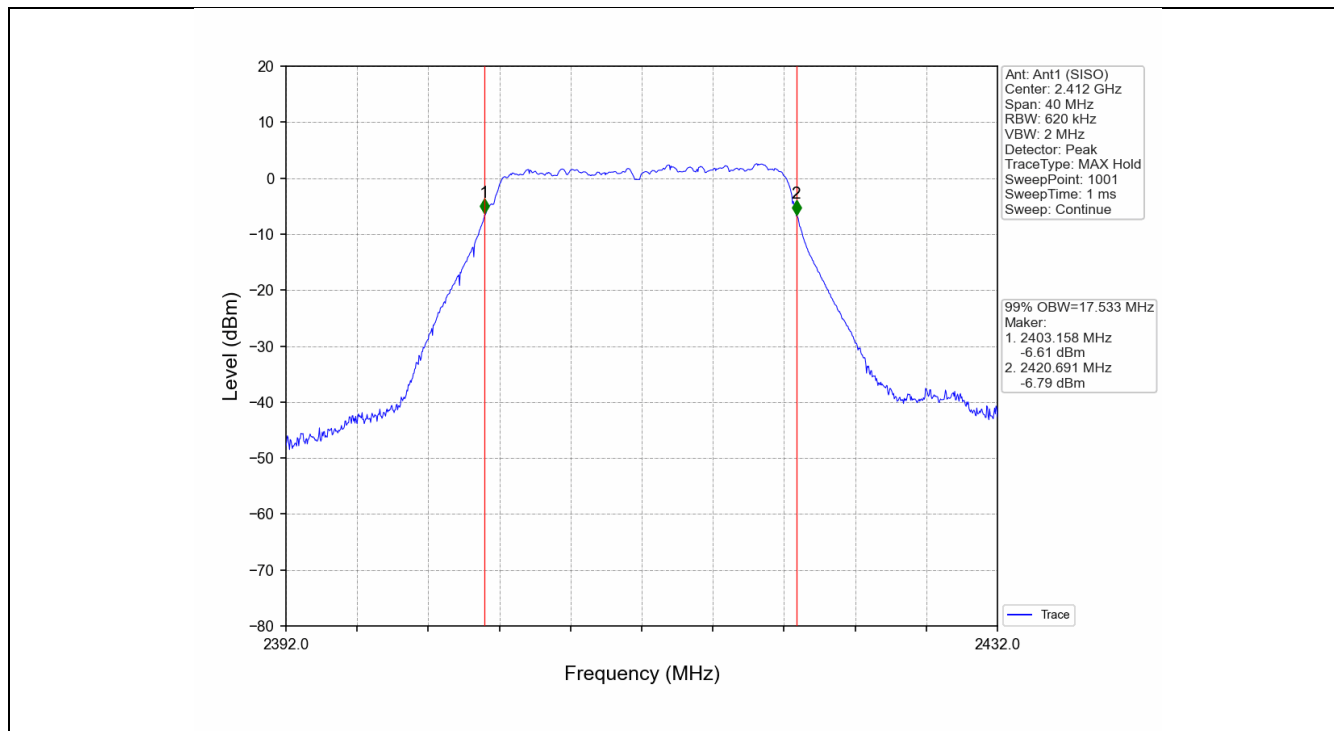
802.11g LCH 2412MHz\_Ant1 (SISO) NTV



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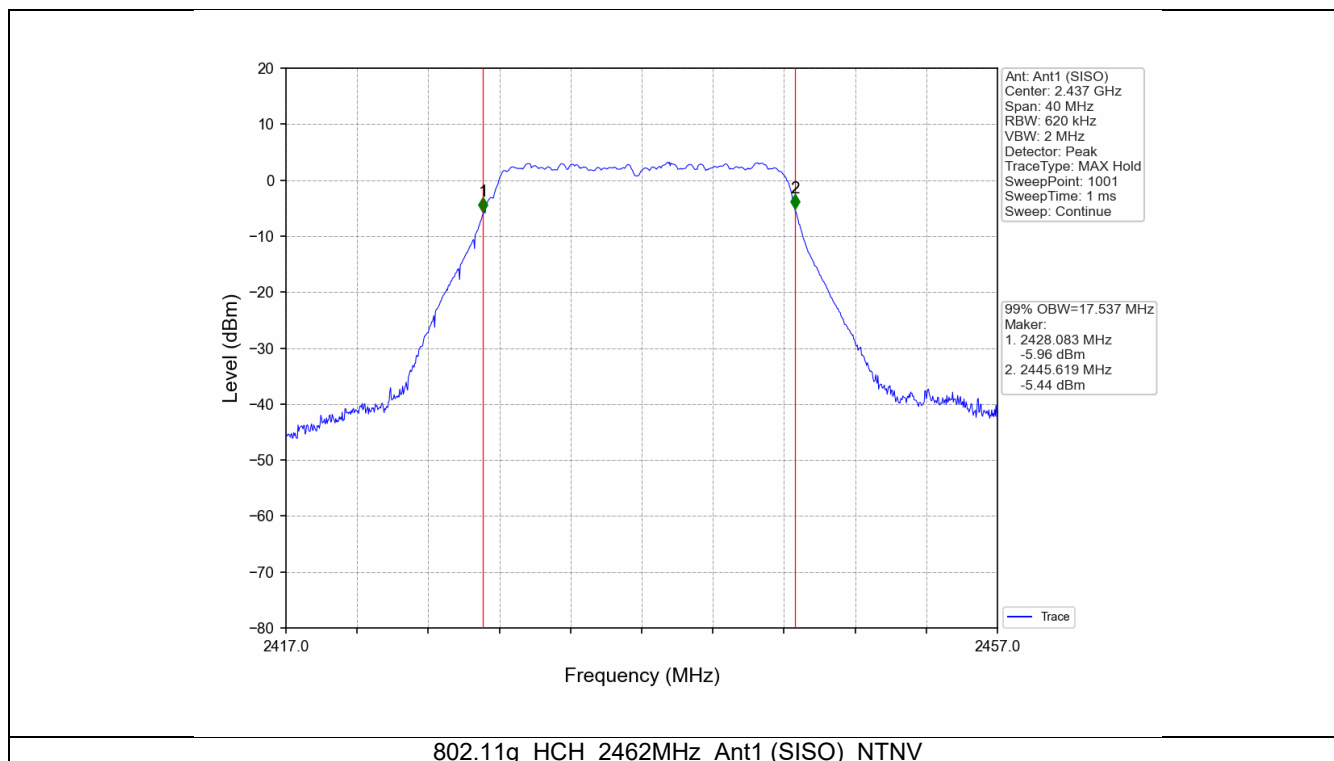
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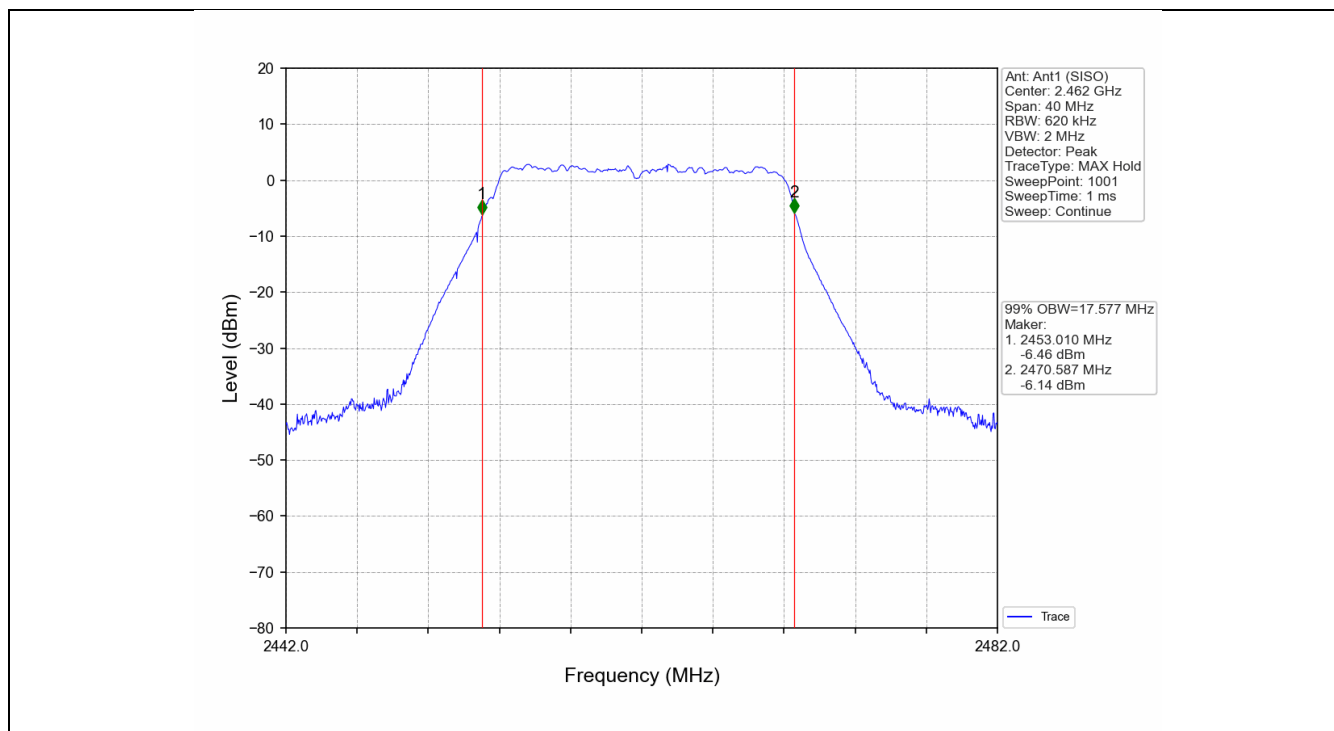


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802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



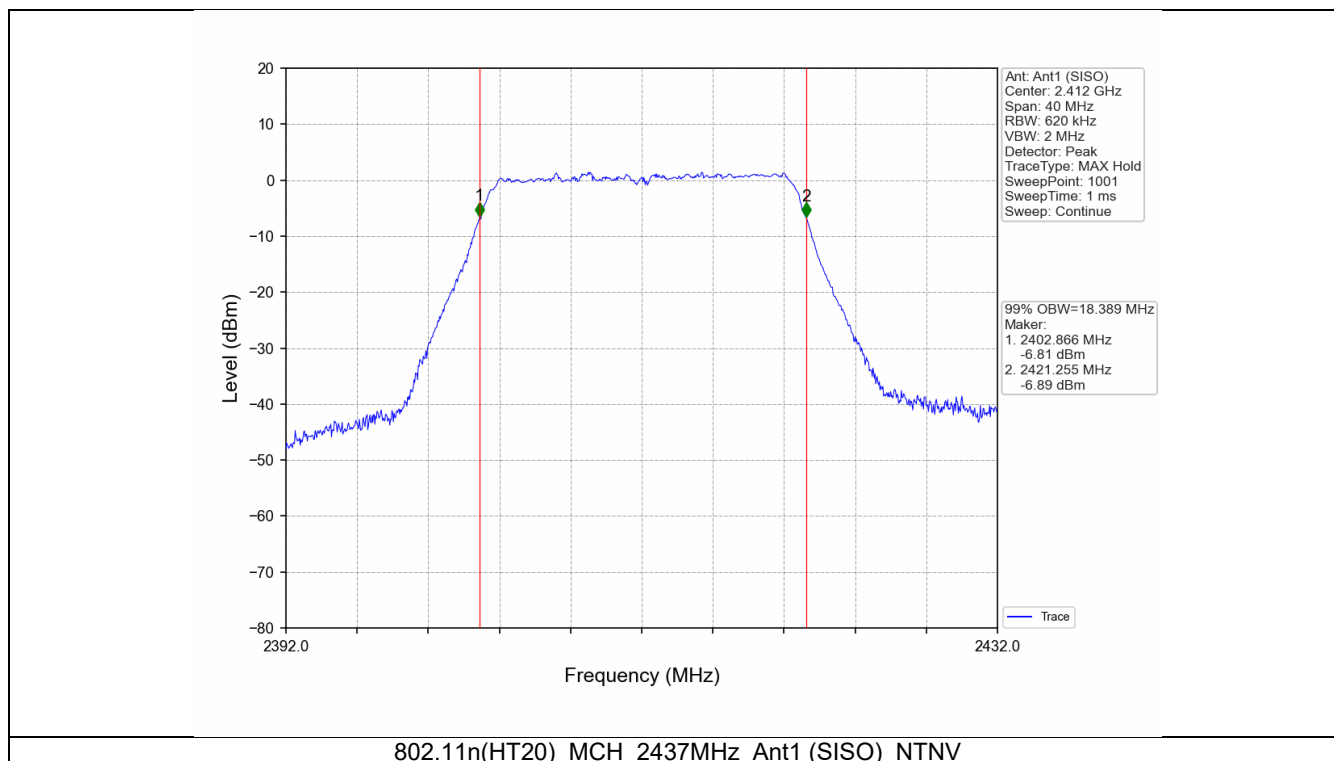
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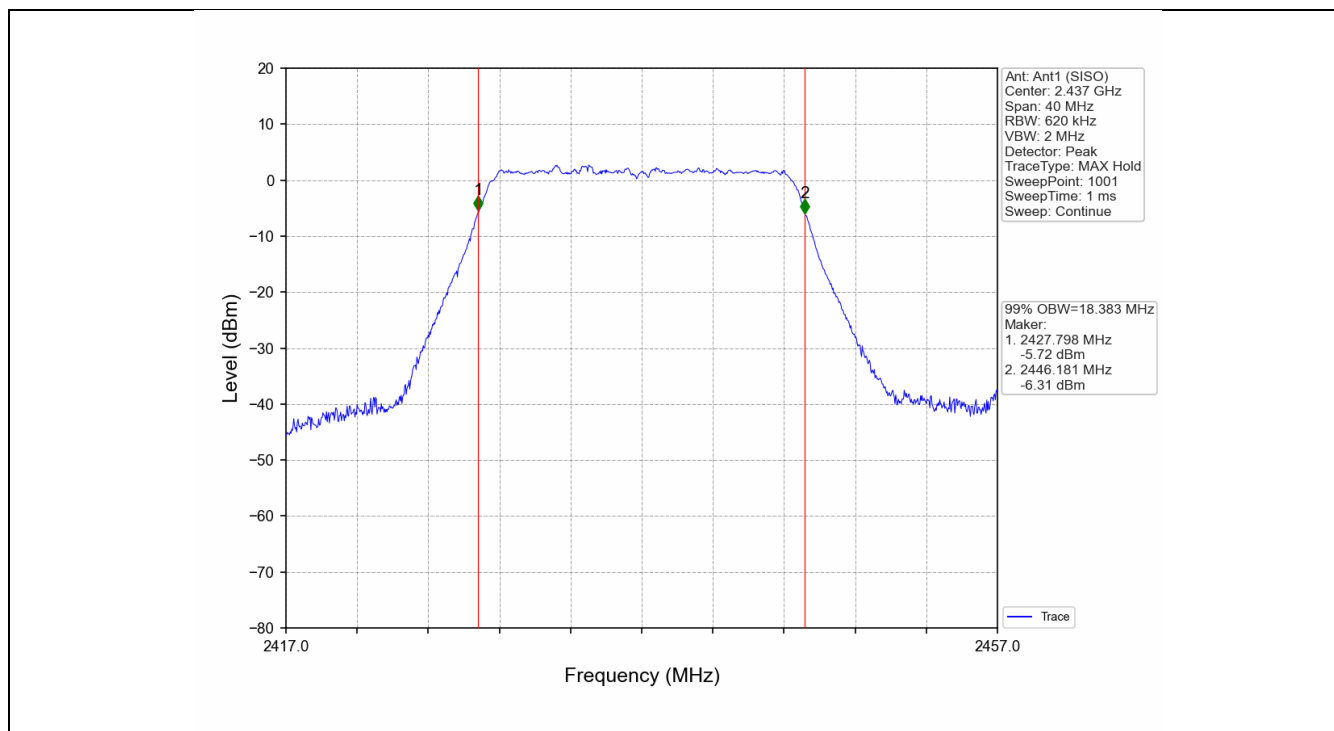


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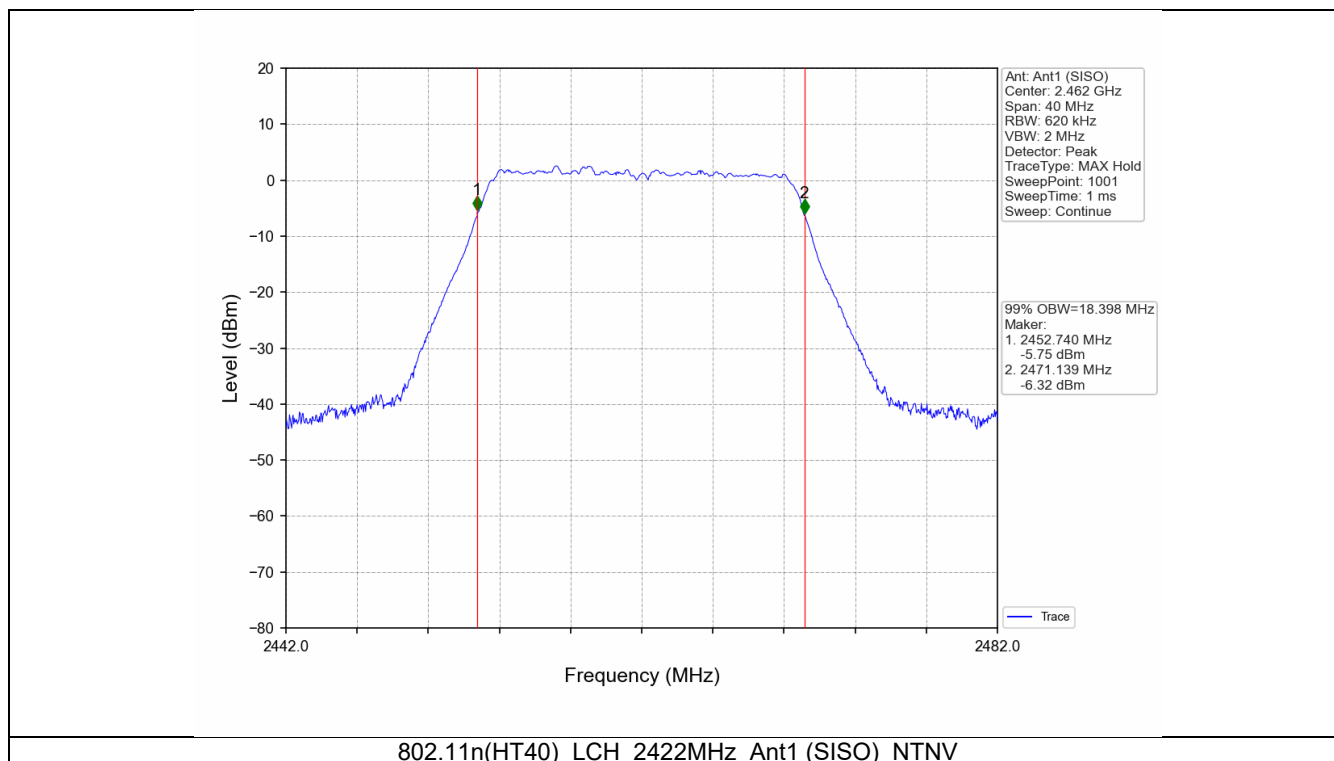
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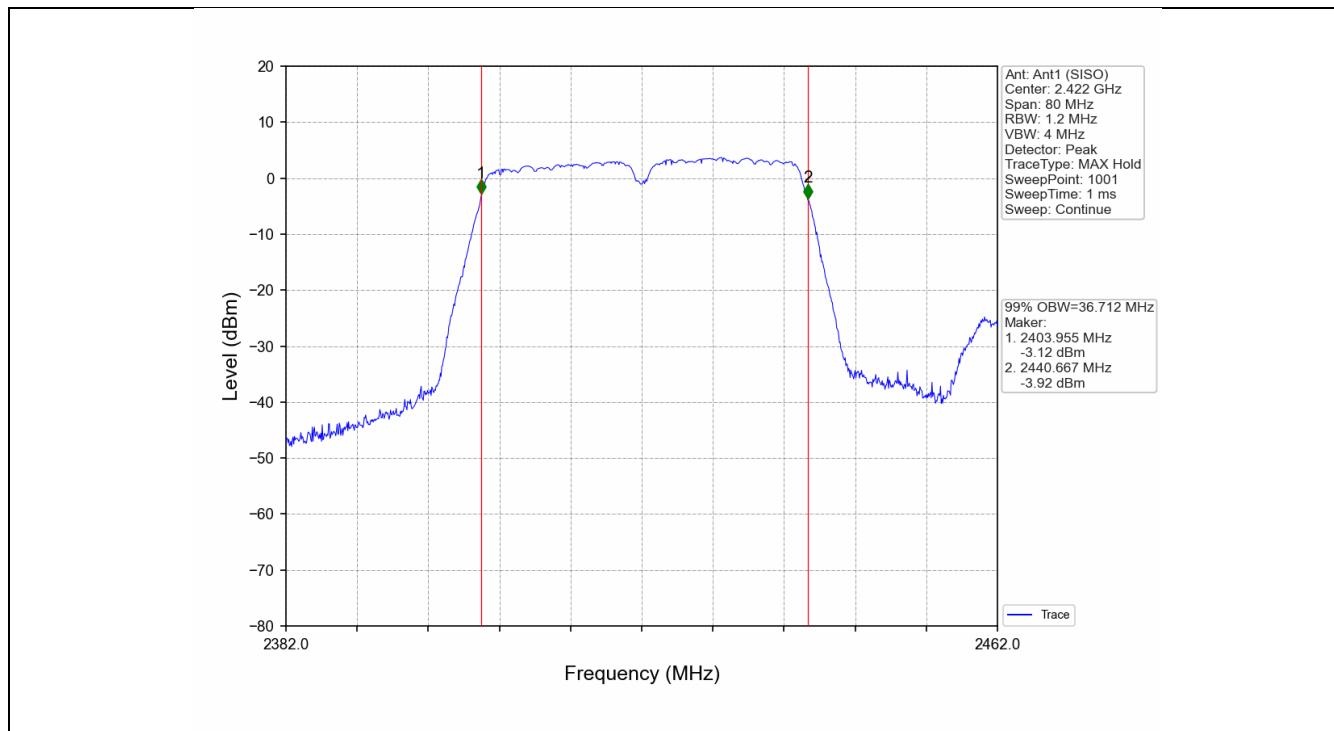


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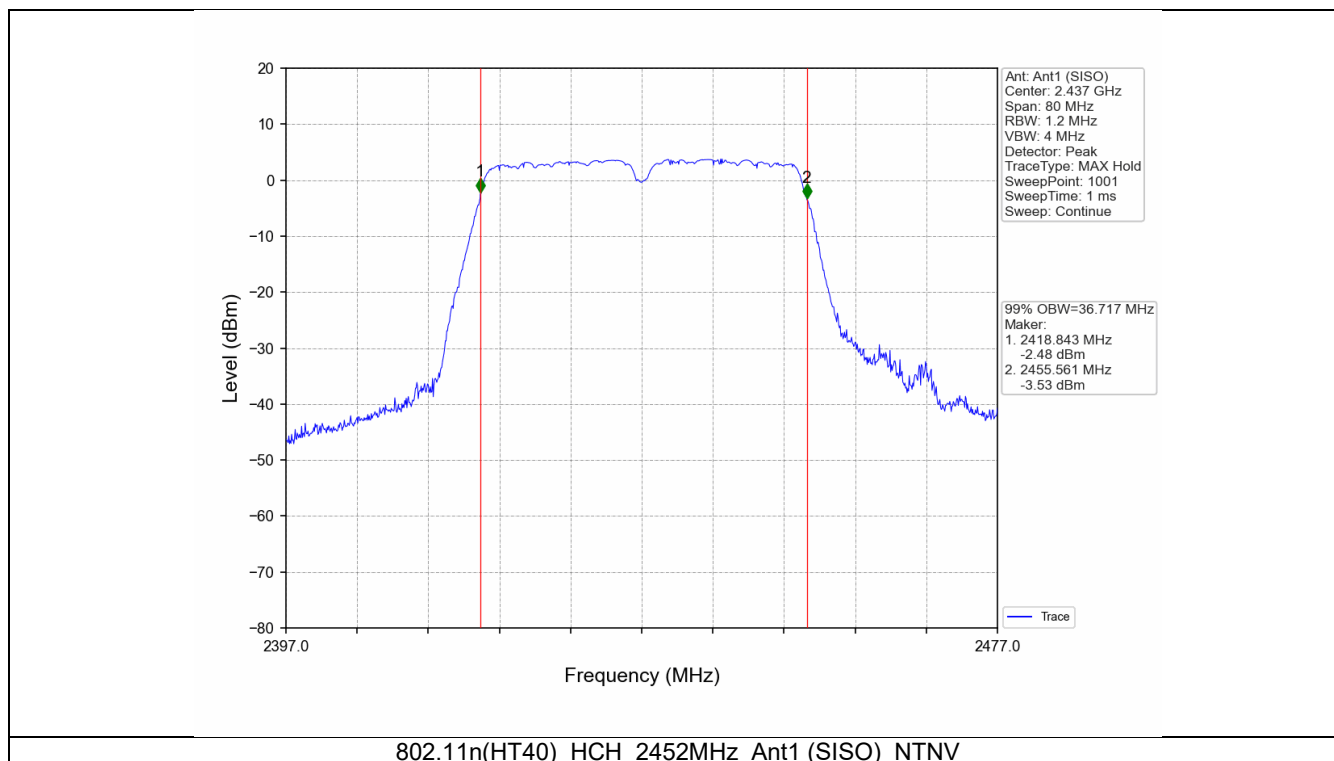
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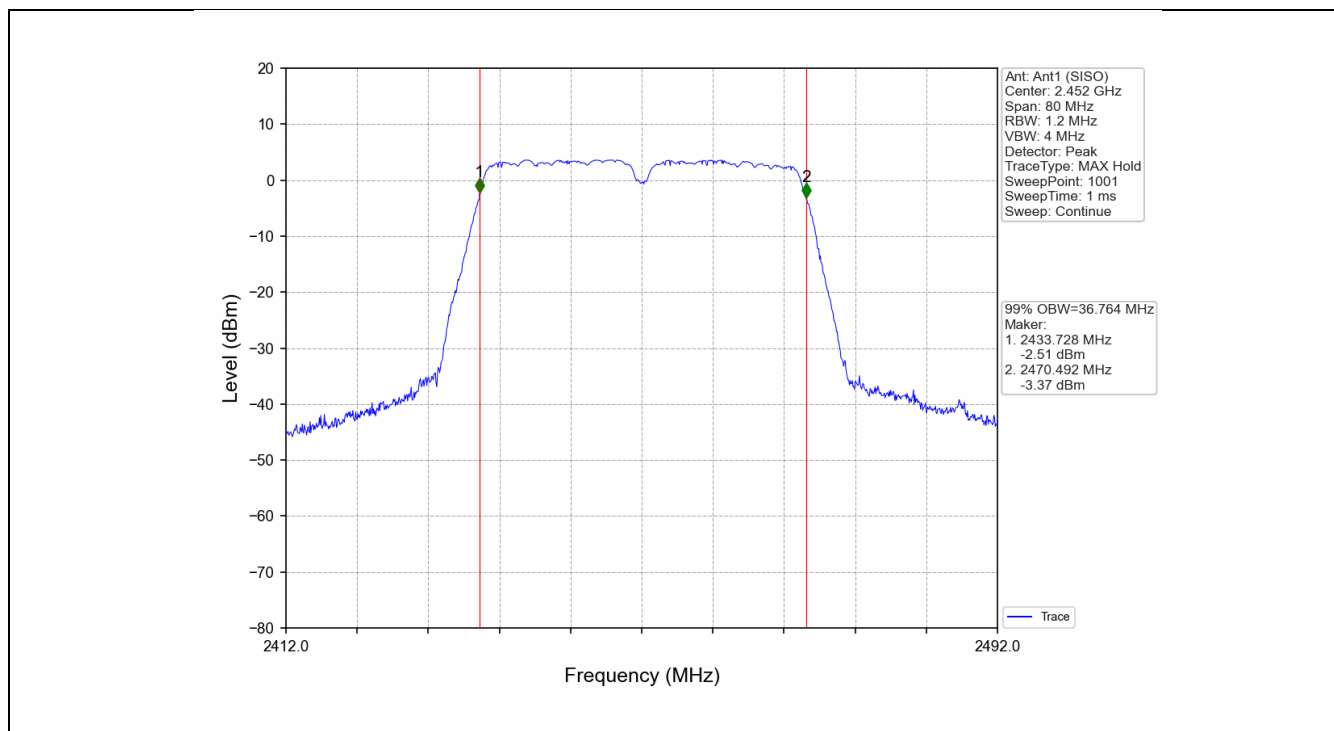


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## 2.2 6dB BW

### 2.2.1 Test Result

| Mode           | TX Type | Frequency (MHz) | Ant | 6dB Bandwidth (MHz) |            | Verdict |
|----------------|---------|-----------------|-----|---------------------|------------|---------|
|                |         |                 |     | Result              | Limit      |         |
| 802.11b        | SISO    | 2412            | 1   | 9.094               | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 9.106               | $\geq 0.5$ | Pass    |
|                |         | 2462            | 1   | 9.108               | $\geq 0.5$ | Pass    |
| 802.11g        | SISO    | 2412            | 1   | 16.575              | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 16.600              | $\geq 0.5$ | Pass    |
|                |         | 2462            | 1   | 16.588              | $\geq 0.5$ | Pass    |
| 802.11n (HT20) | SISO    | 2412            | 1   | 17.801              | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 17.781              | $\geq 0.5$ | Pass    |
|                |         | 2462            | 1   | 17.785              | $\geq 0.5$ | Pass    |
| 802.11n (HT40) | SISO    | 2422            | 1   | 36.459              | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 36.497              | $\geq 0.5$ | Pass    |
|                |         | 2452            | 1   | 36.489              | $\geq 0.5$ | Pass    |

### 2.2.2 Test Graph

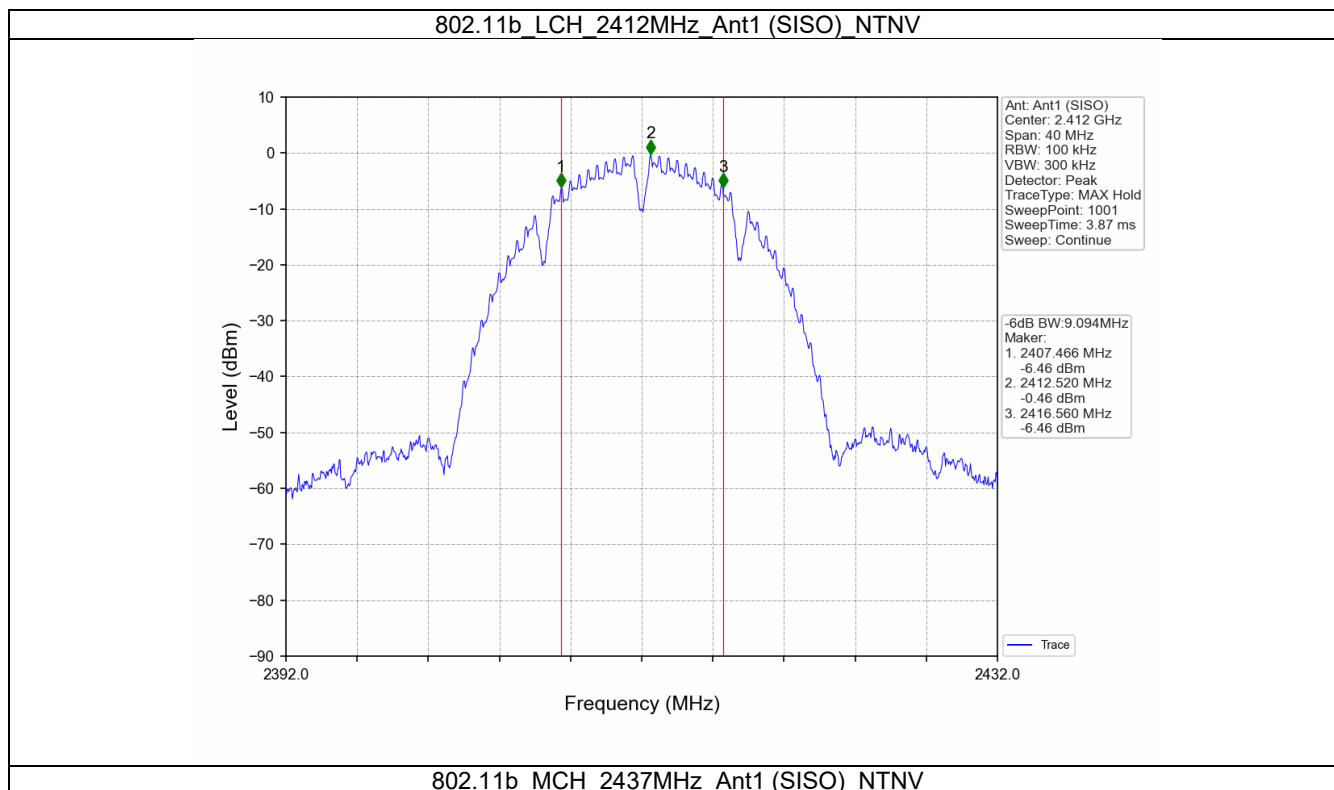


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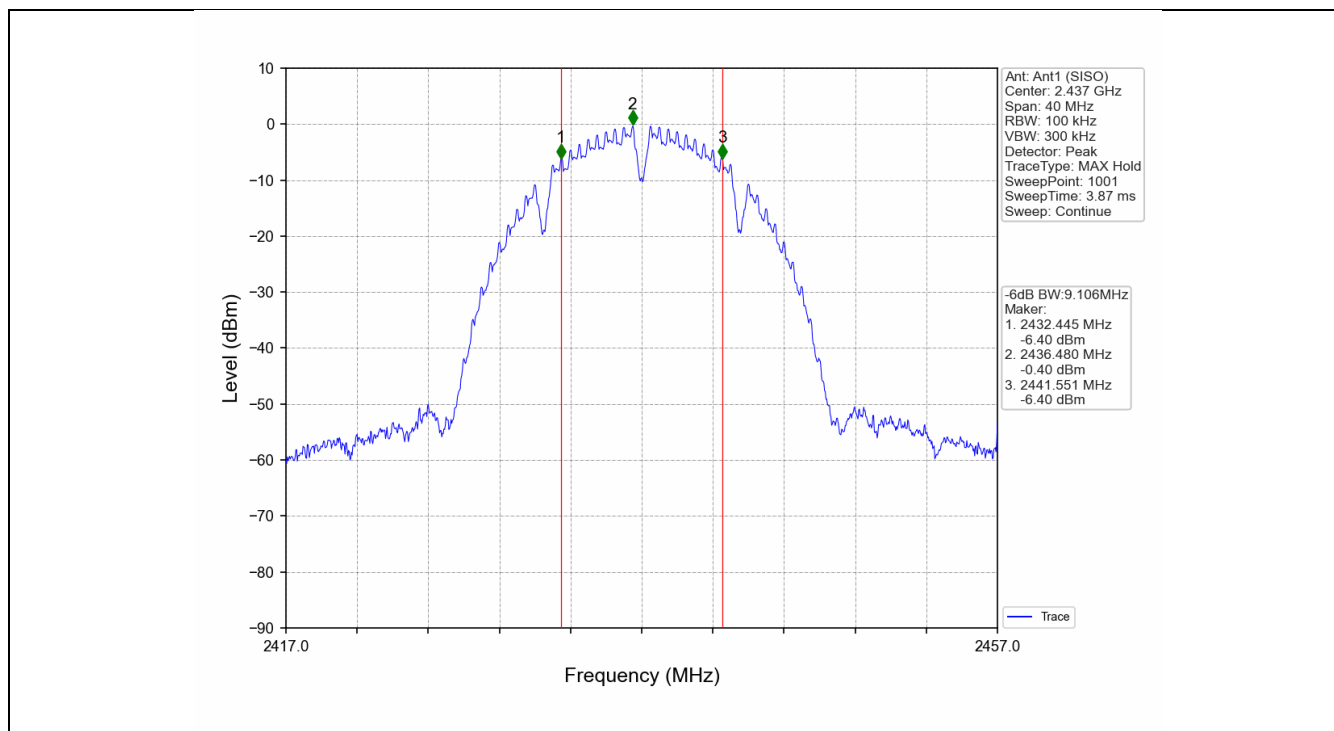
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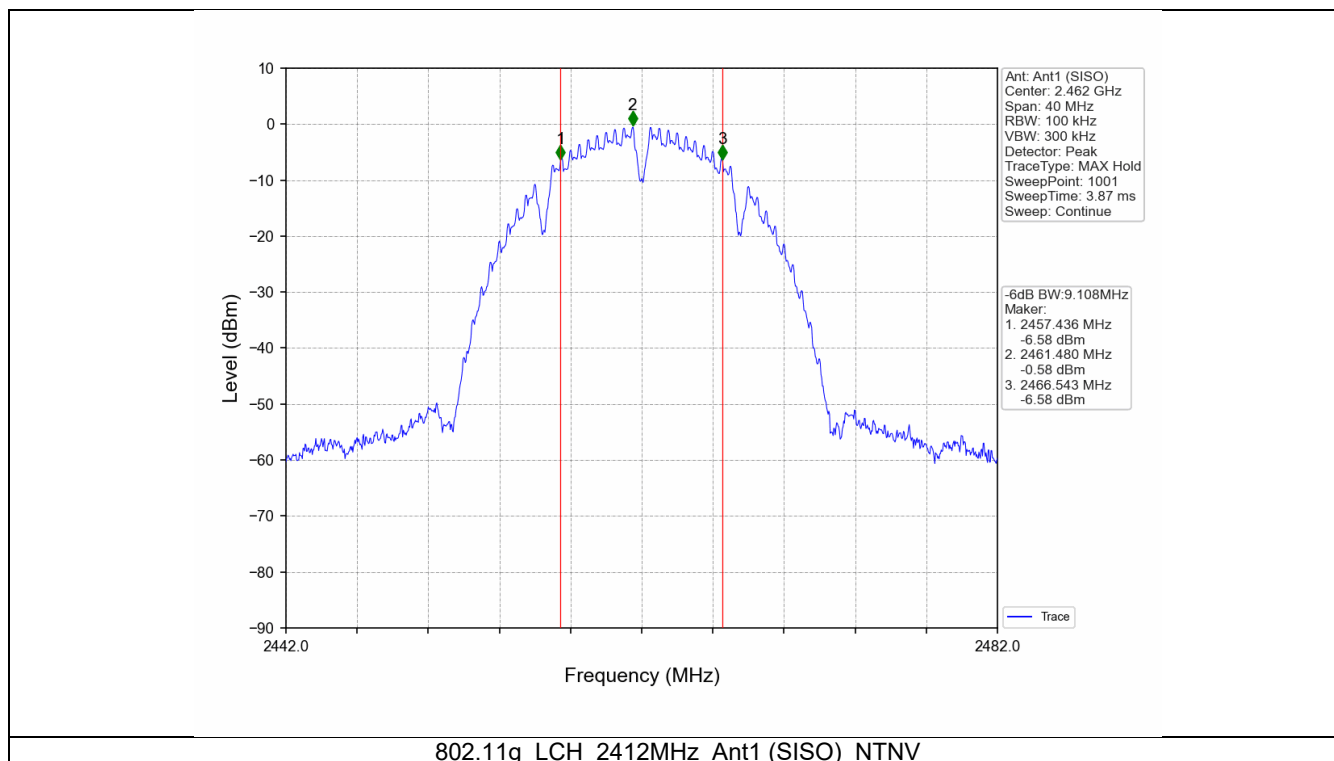
802.11b HCH 2462MHz Ant1 (SISO) NTNv



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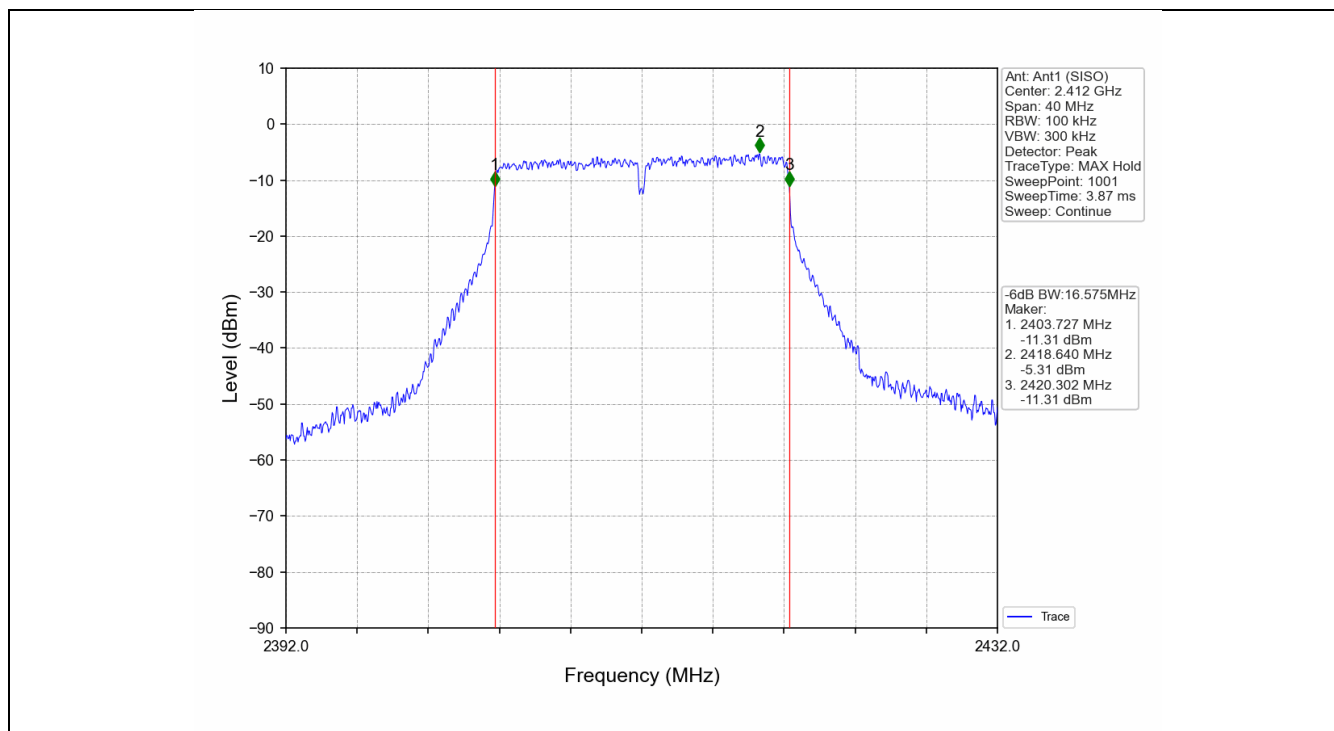


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802.11g MCH 2437MHz Ant1 (SISO) NTN



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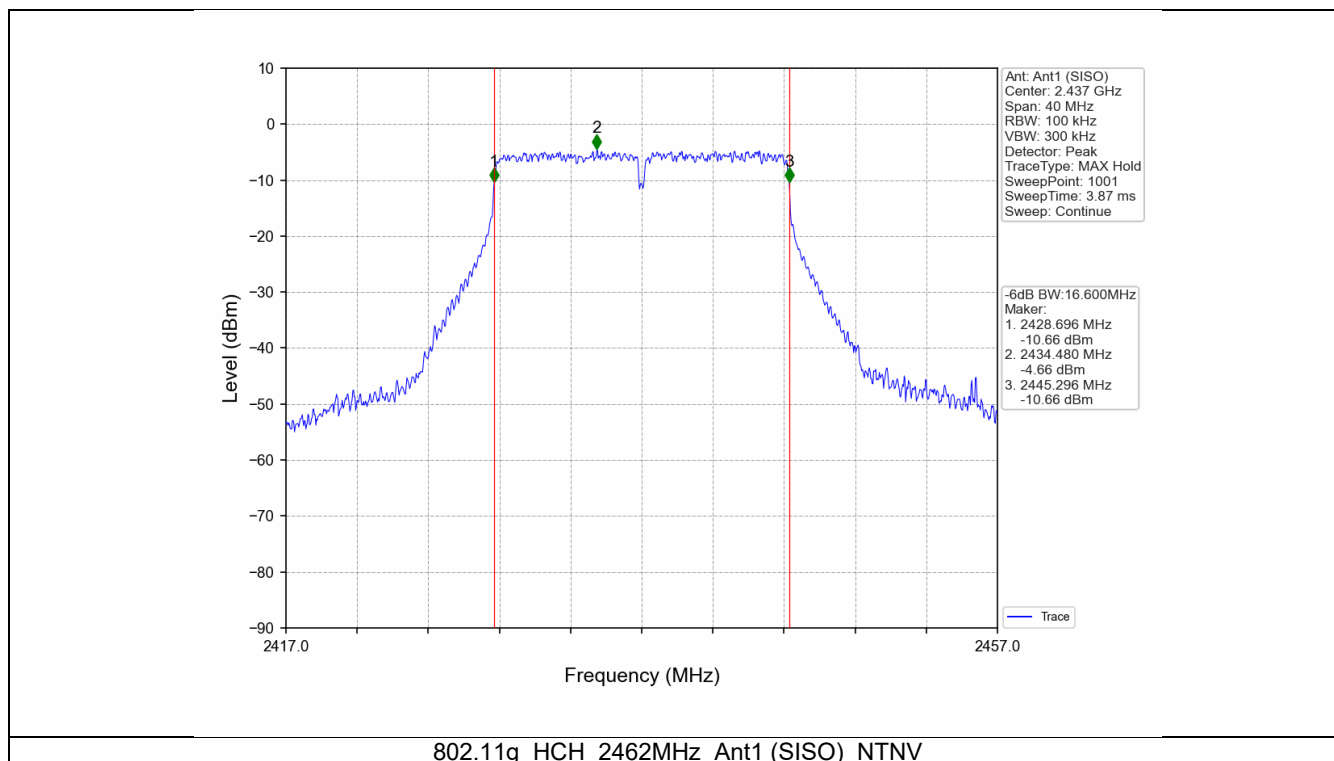
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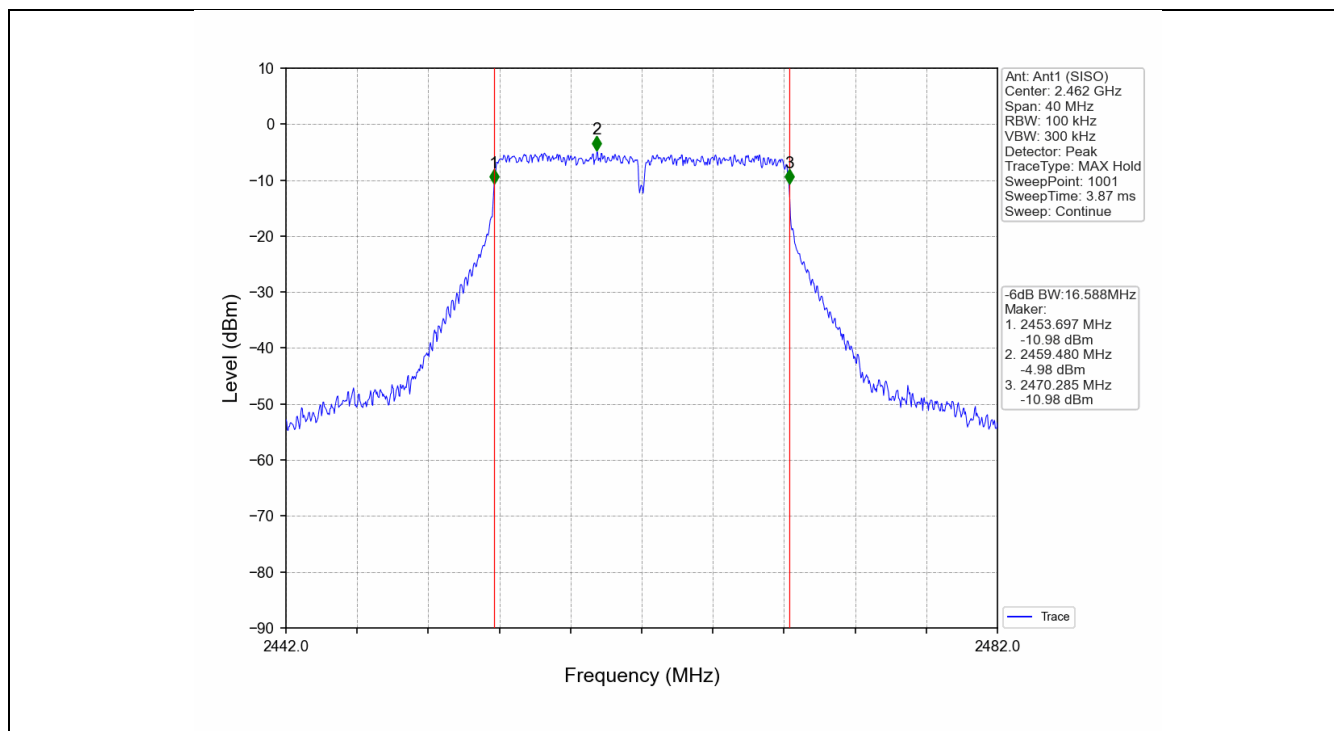


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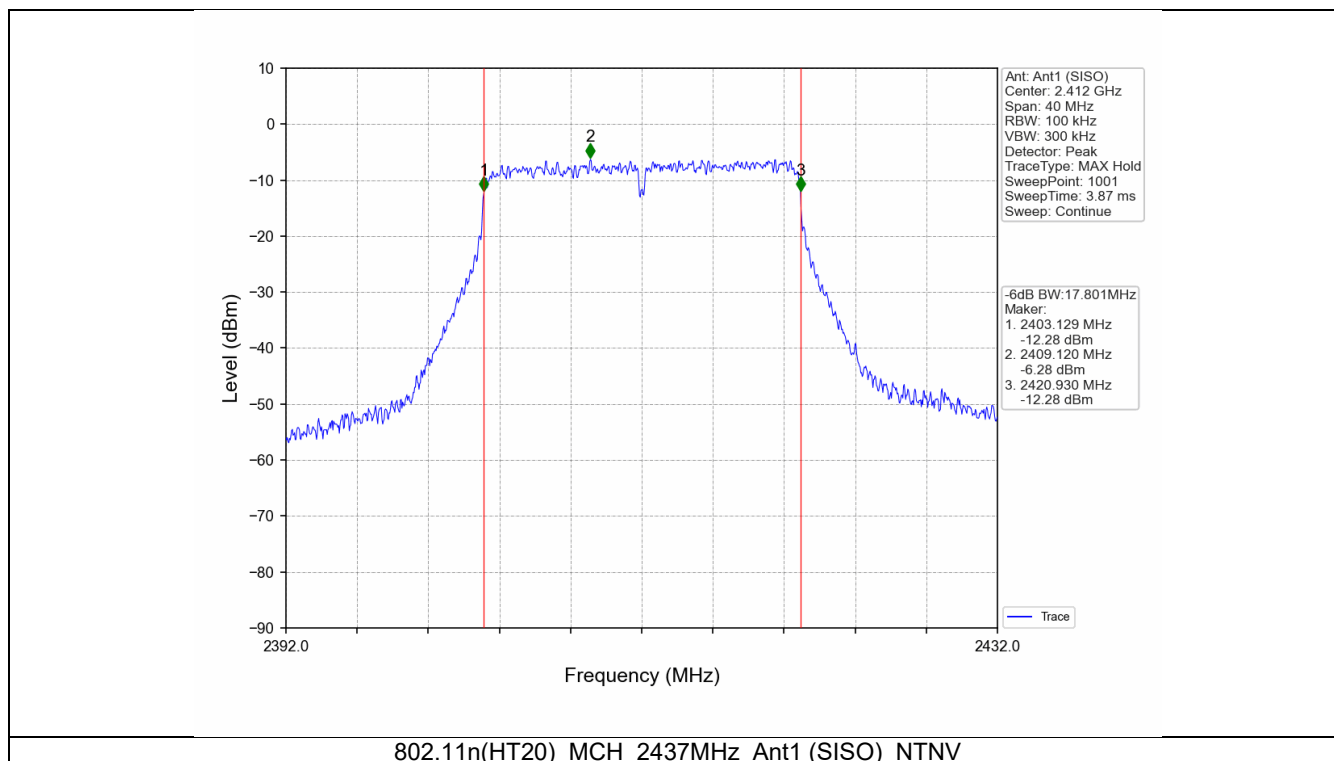


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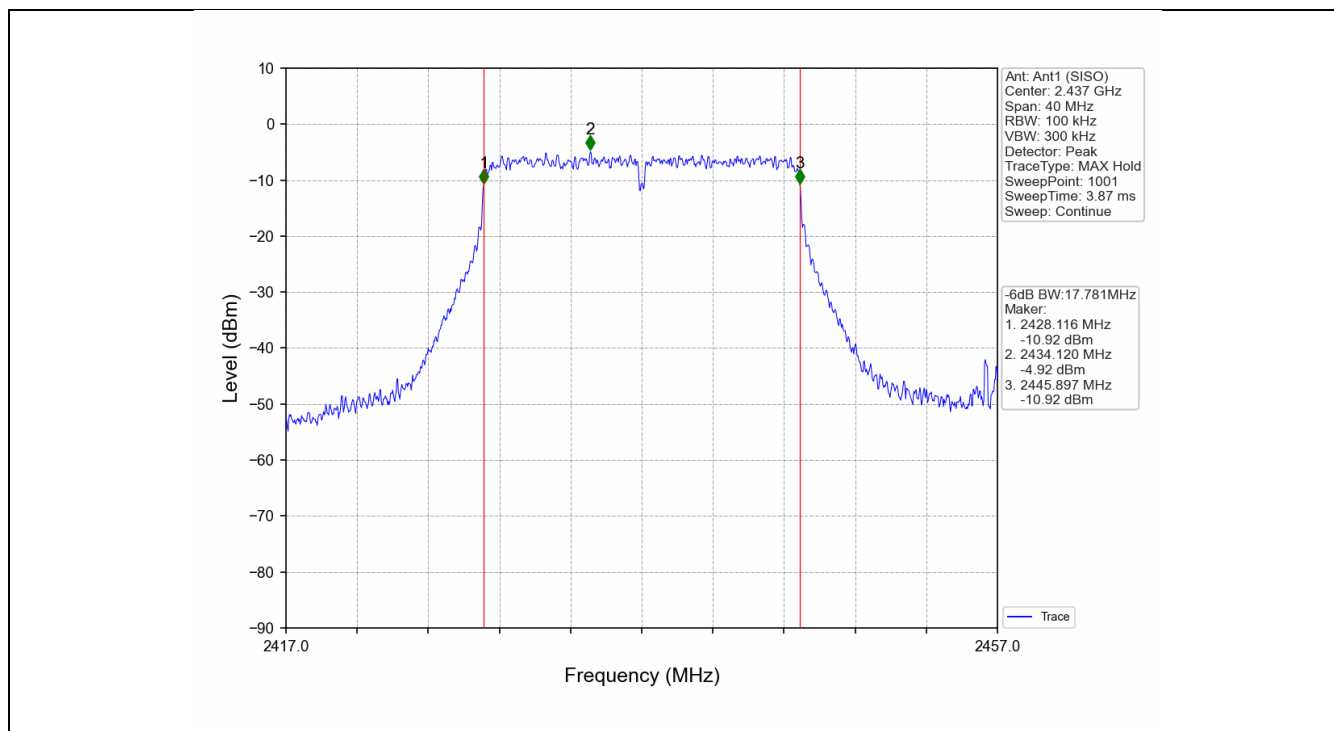
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802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV



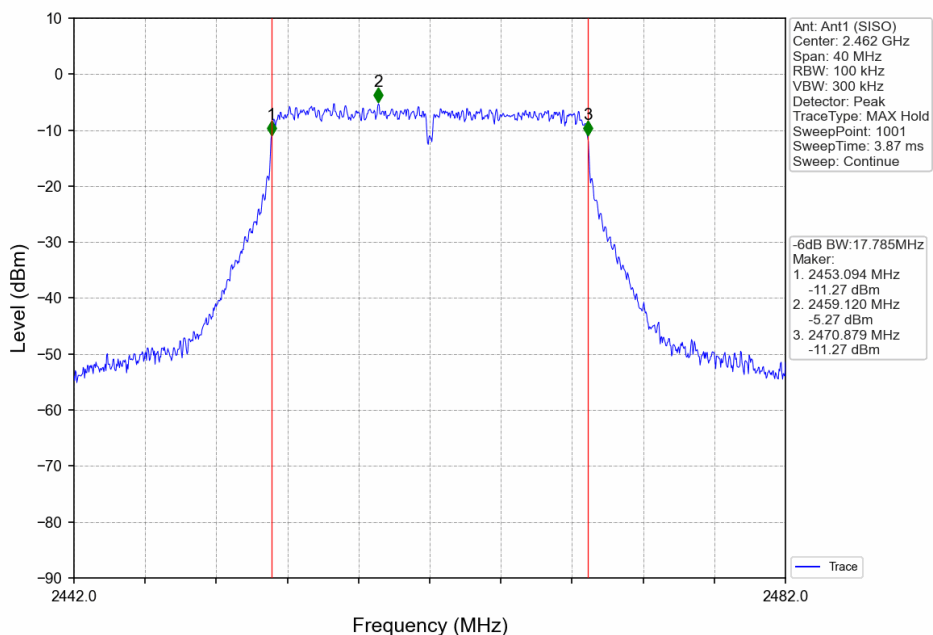
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802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV

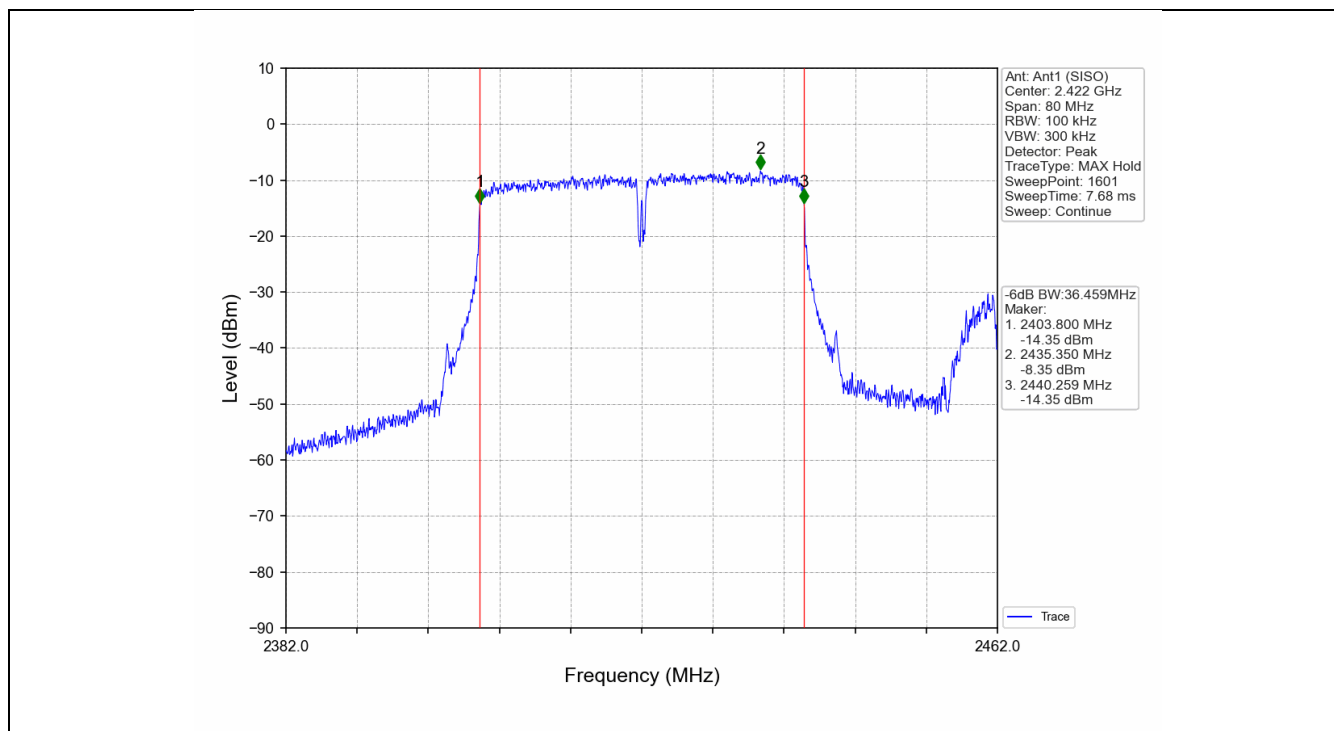


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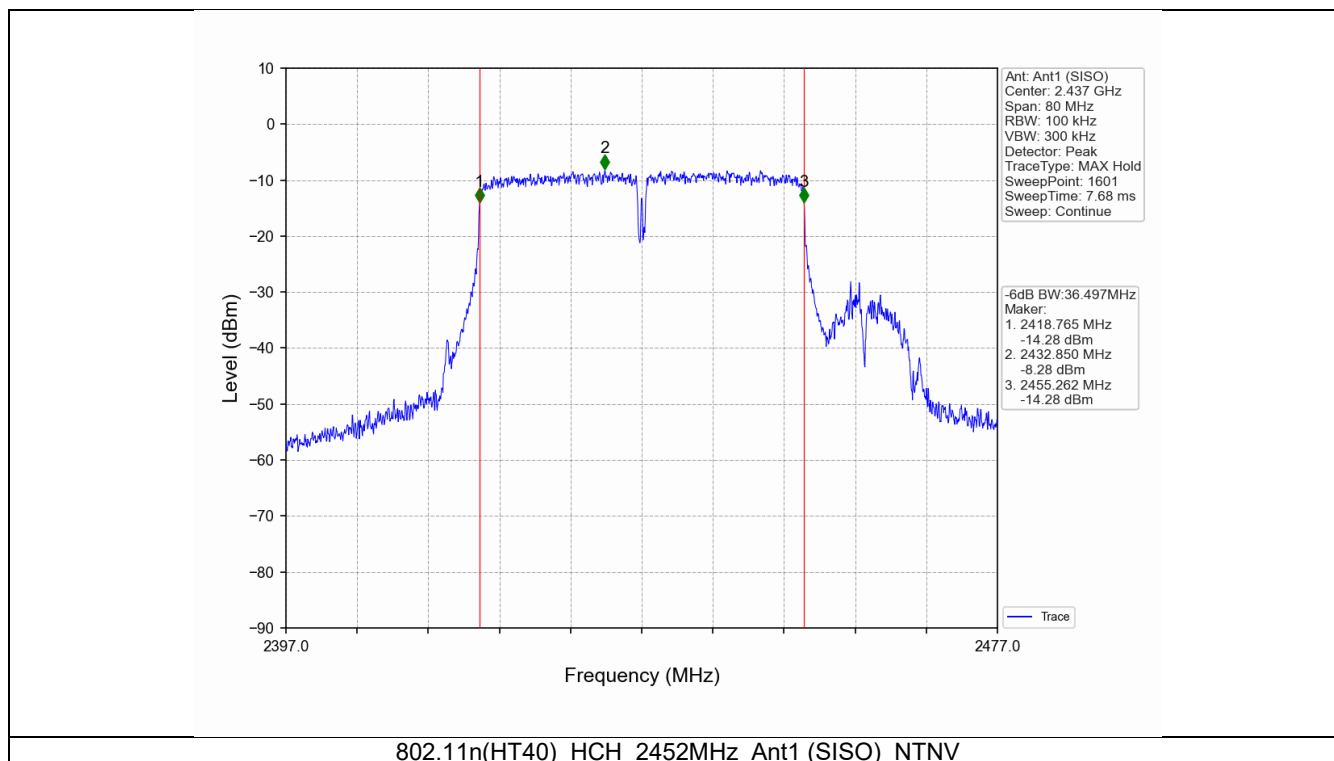
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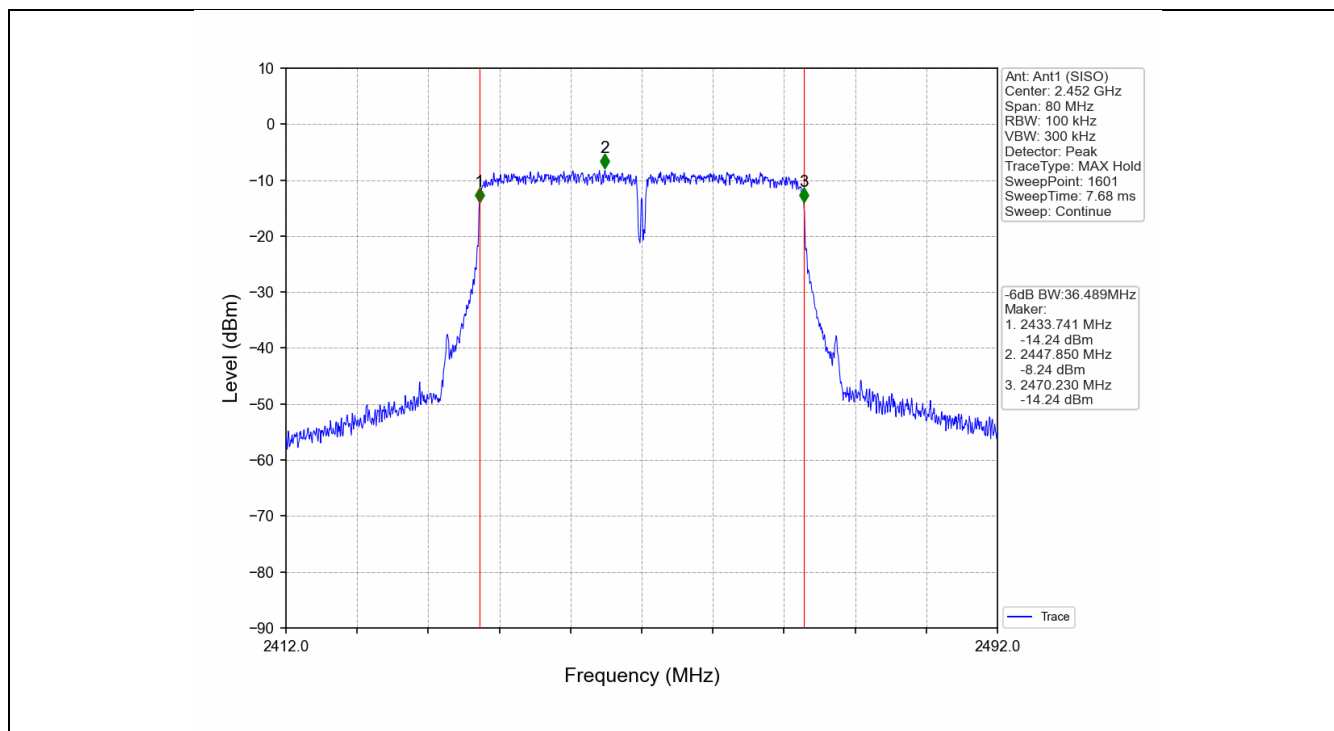


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### 3. Maximum Conducted Output Power

#### 3.1 Power

##### 3.1.1 Test Result

| Mode           | TX Type | Frequency (MHz) | Maximum Conducted Output Power (dBm) |       | Verdict |
|----------------|---------|-----------------|--------------------------------------|-------|---------|
|                |         |                 | Ant1                                 | Limit |         |
| 802.11b        | SISO    | 2412            | 8.67                                 | <=30  | Pass    |
|                |         | 2437            | 8.76                                 | <=30  | Pass    |
|                |         | 2462            | 8.61                                 | <=30  | Pass    |
| 802.11g        | SISO    | 2412            | 8.53                                 | <=30  | Pass    |
|                |         | 2437            | 8.53                                 | <=30  | Pass    |
|                |         | 2462            | 8.16                                 | <=30  | Pass    |
| 802.11n (HT20) | SISO    | 2412            | 7.82                                 | <=30  | Pass    |
|                |         | 2437            | 8.93                                 | <=30  | Pass    |
|                |         | 2462            | 8.45                                 | <=30  | Pass    |
| 802.11n (HT40) | SISO    | 2422            | 8.43                                 | <=30  | Pass    |
|                |         | 2437            | 8.94                                 | <=30  | Pass    |
|                |         | 2452            | 8.95                                 | <=30  | Pass    |

Note1: Antenna Gain: Ant1: 1.00dBi;

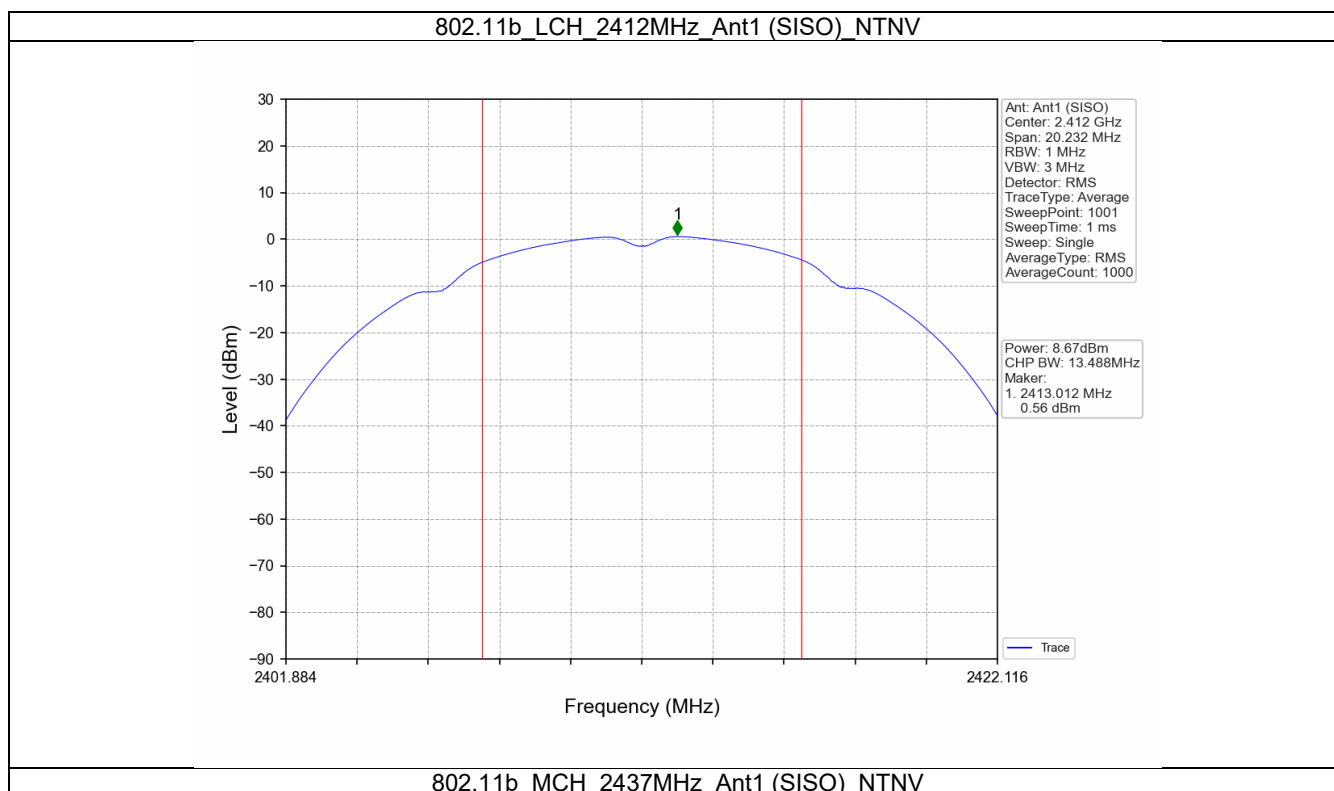


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### 3.1.2 Test Graph



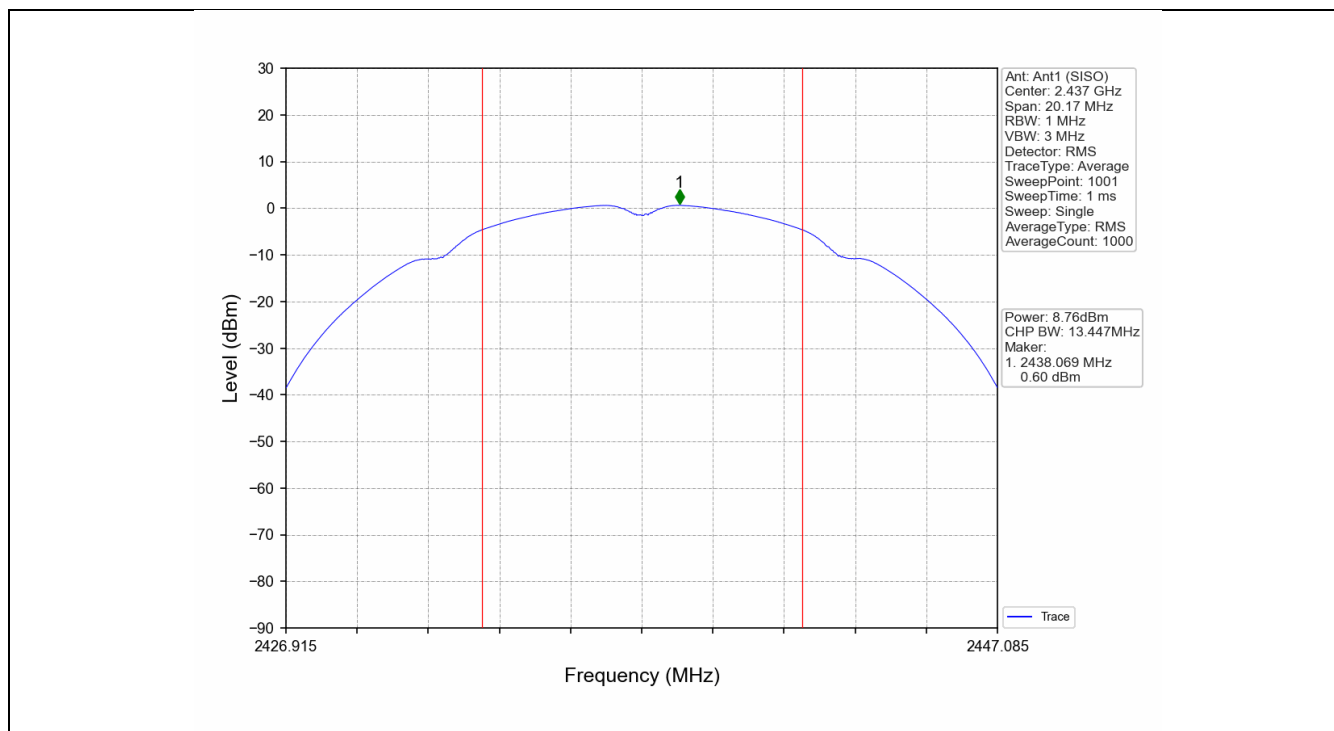
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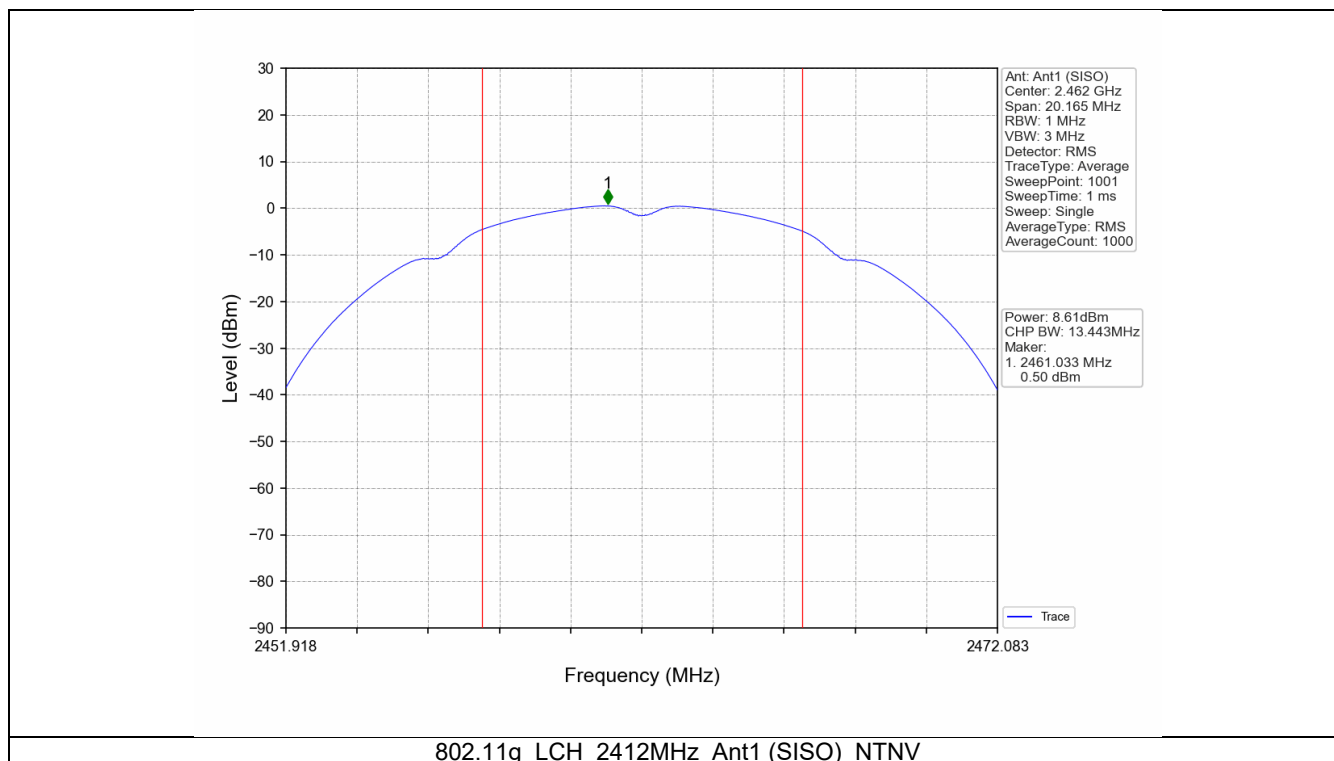


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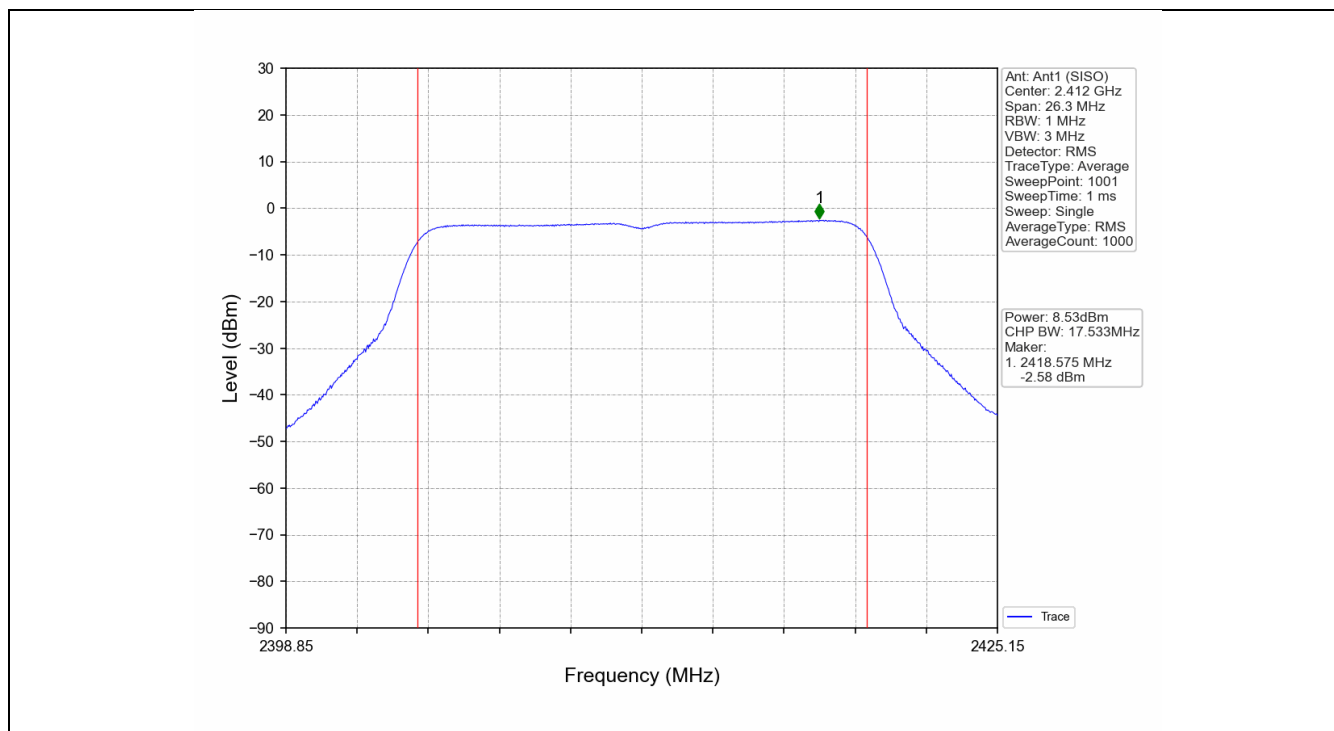


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802.11g MCH 2437MHz Ant1 (SISO) NTV

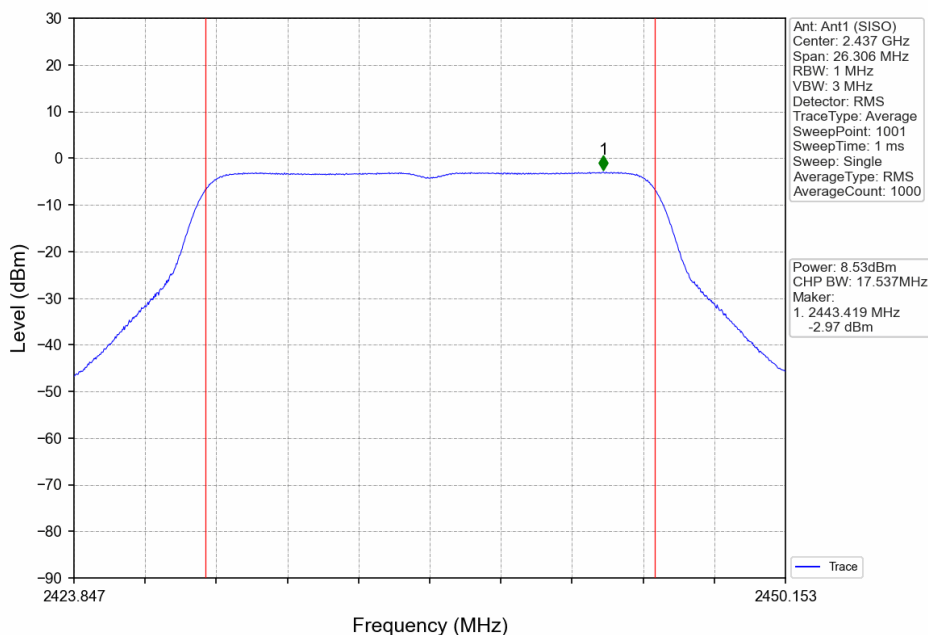


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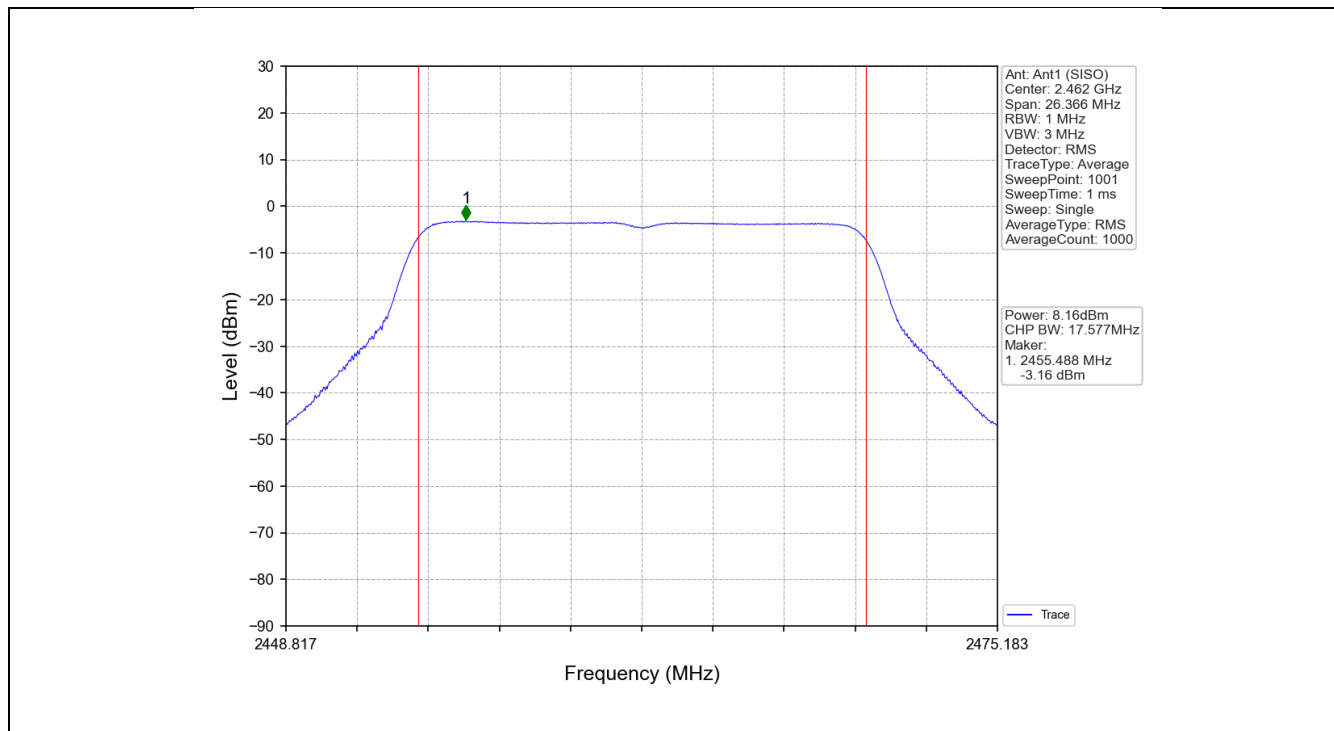


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802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV

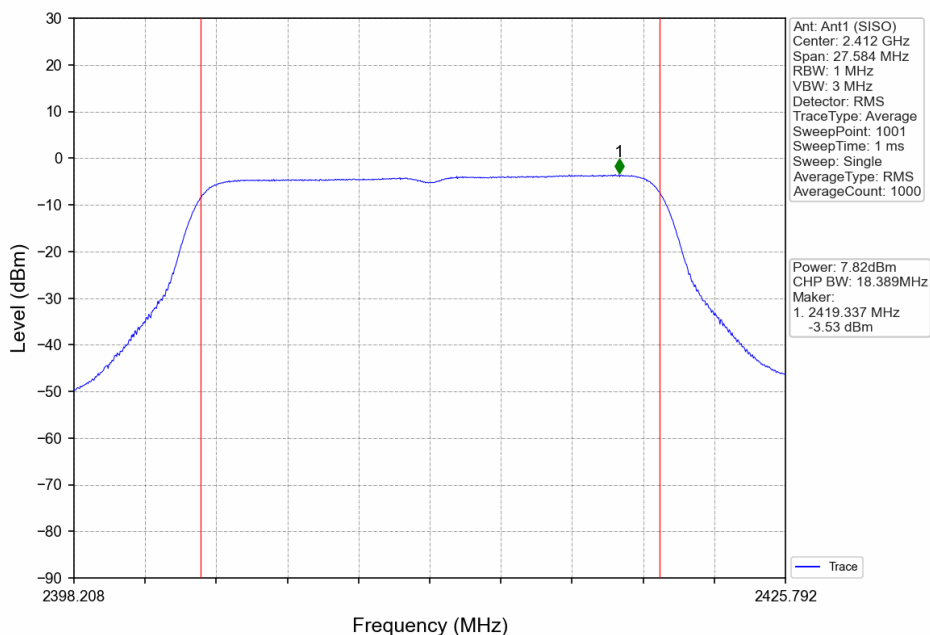


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802.11n(HT20) MCH\_2437MHz\_Ant1 (SISO) NTNV



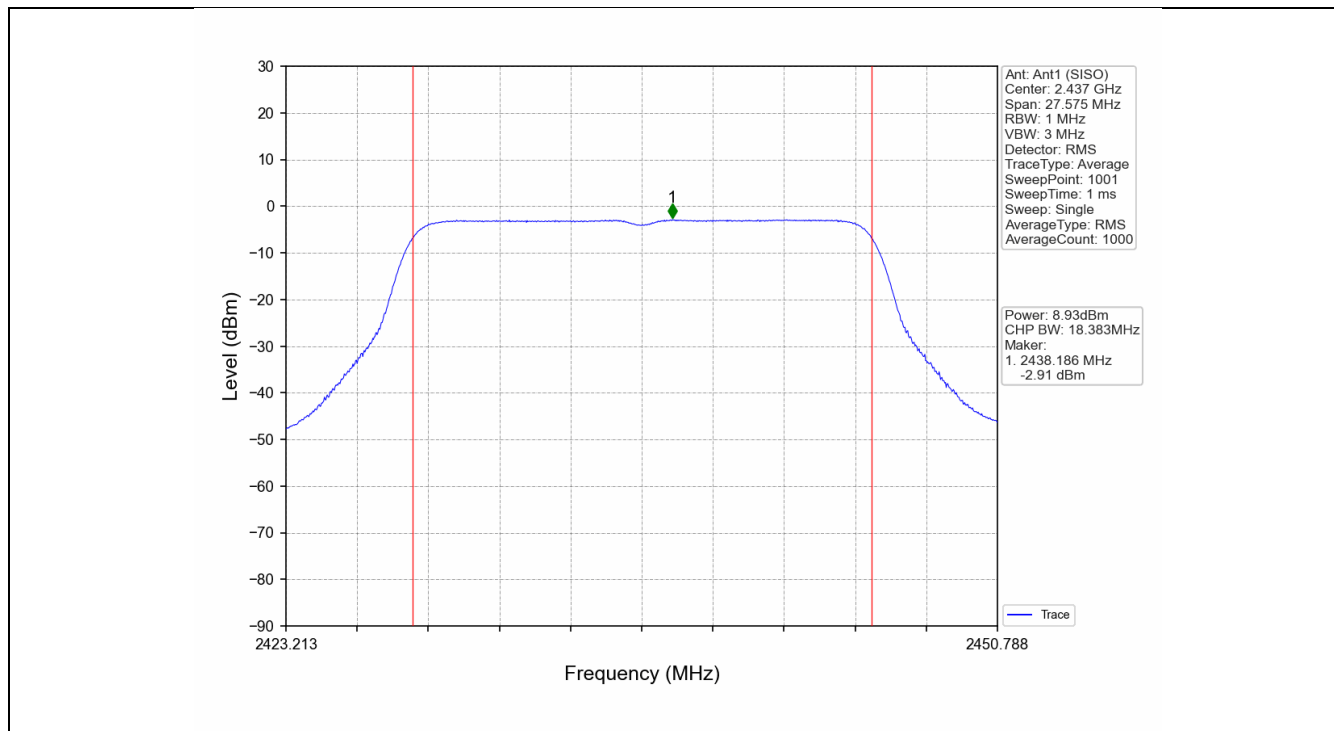
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802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV

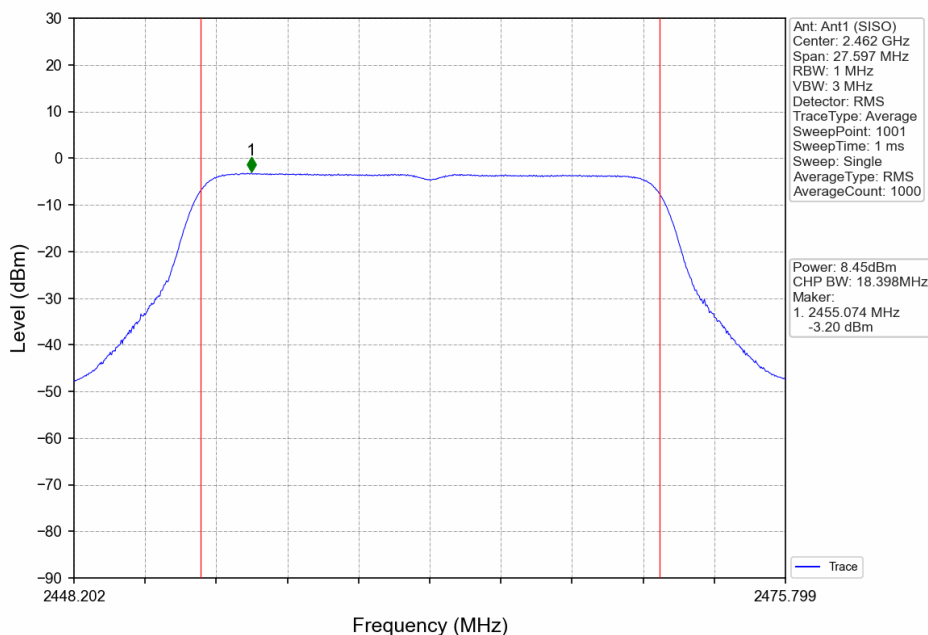


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802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV

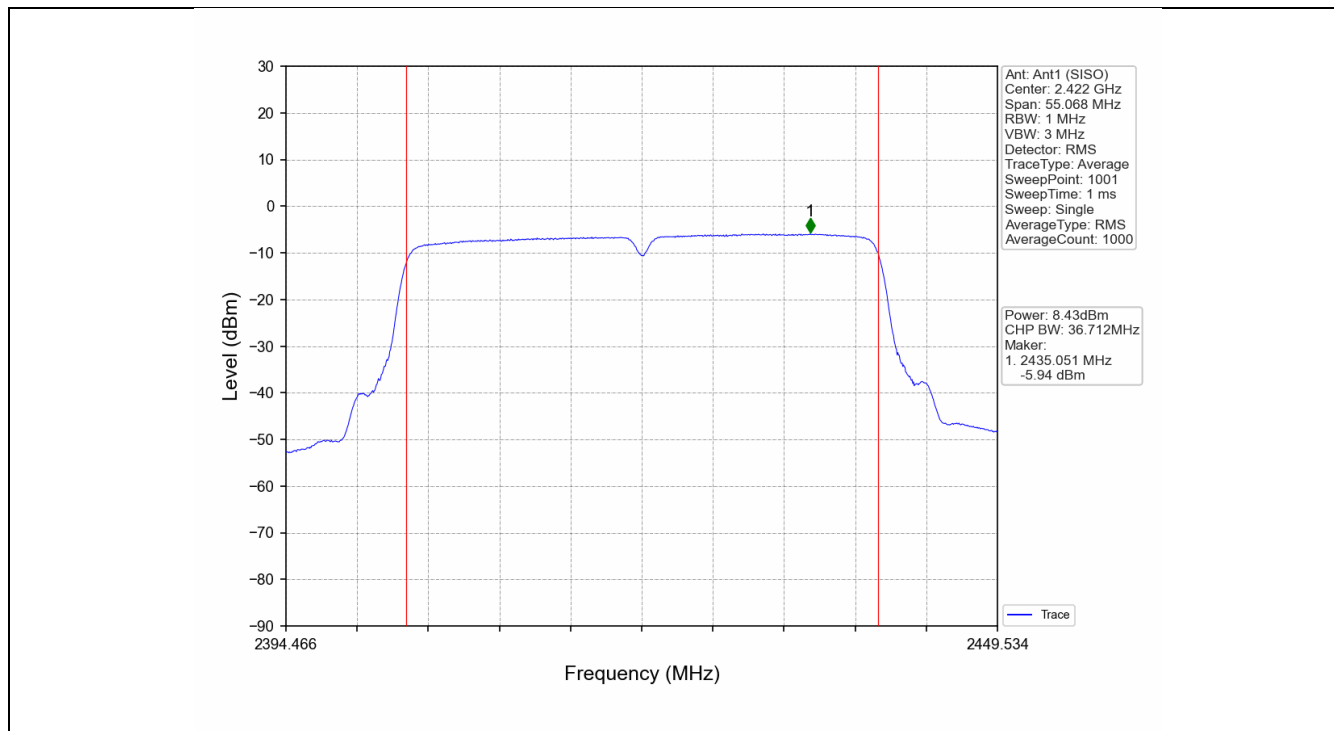


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802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTV

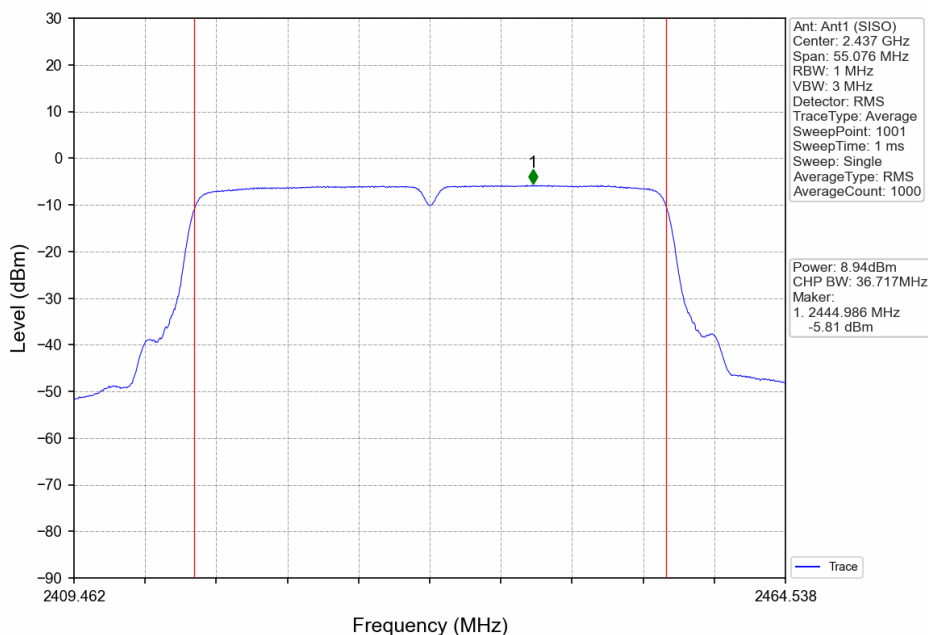


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802.11n(HT40) HCH\_2452MHz\_Ant1 (SISO)\_NTNV

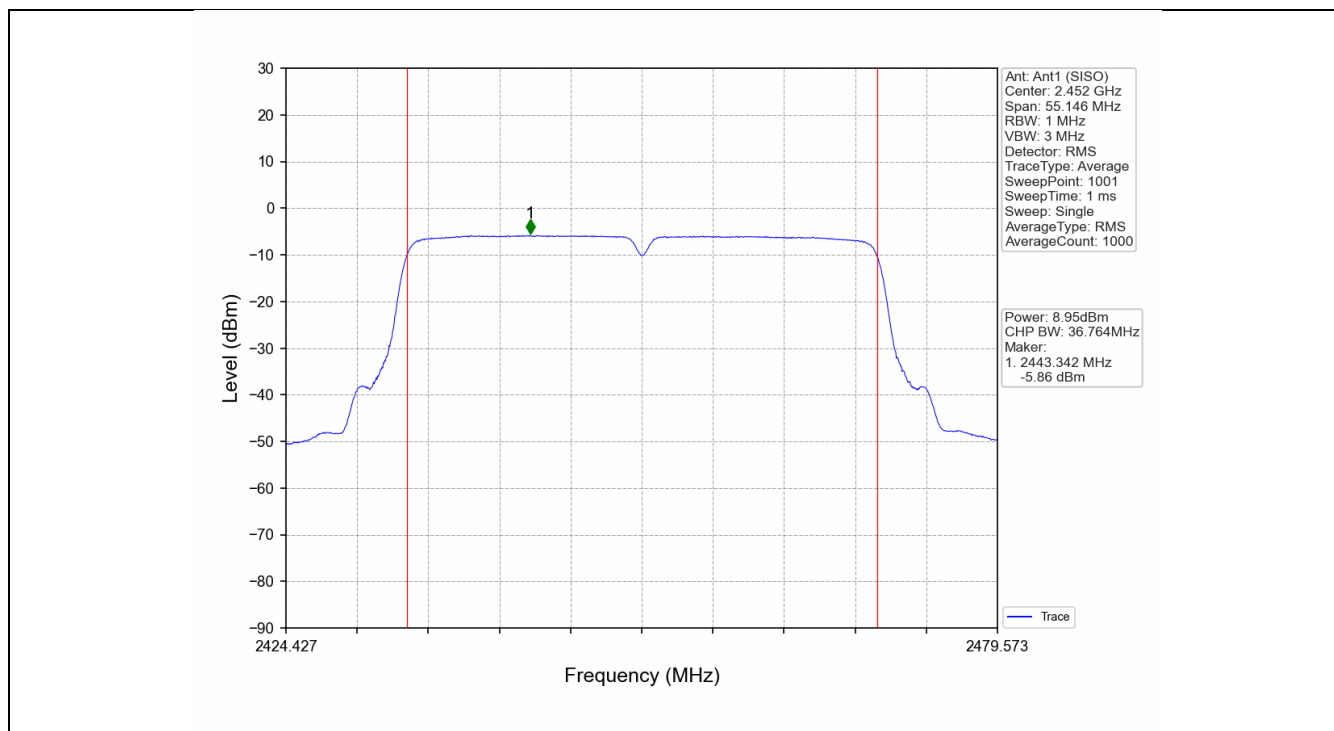


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## 4. Maximum Power Spectral Density

### 4.1 PSD

#### 4.1.1 Test Result

| Mode           | TX Type | Frequency (MHz) | Maximum PSD (dBm/3kHz) |       | Verdict |
|----------------|---------|-----------------|------------------------|-------|---------|
|                |         |                 | Ant1                   | Limit |         |
| 802.11b        | SISO    | 2412            | -20.60                 | <=8   | Pass    |
|                |         | 2437            | -20.39                 | <=8   | Pass    |
|                |         | 2462            | -20.38                 | <=8   | Pass    |
| 802.11g        | SISO    | 2412            | -17.11                 | <=8   | Pass    |
|                |         | 2437            | -15.72                 | <=8   | Pass    |
|                |         | 2462            | -16.05                 | <=8   | Pass    |
| 802.11n (HT20) | SISO    | 2412            | -17.21                 | <=8   | Pass    |
|                |         | 2437            | -16.02                 | <=8   | Pass    |
|                |         | 2462            | -16.38                 | <=8   | Pass    |
| 802.11n (HT40) | SISO    | 2422            | -16.62                 | <=8   | Pass    |
|                |         | 2437            | -16.14                 | <=8   | Pass    |
|                |         | 2452            | -16.14                 | <=8   | Pass    |

Note1: Antenna Gain: Ant1: 1.00dBi;



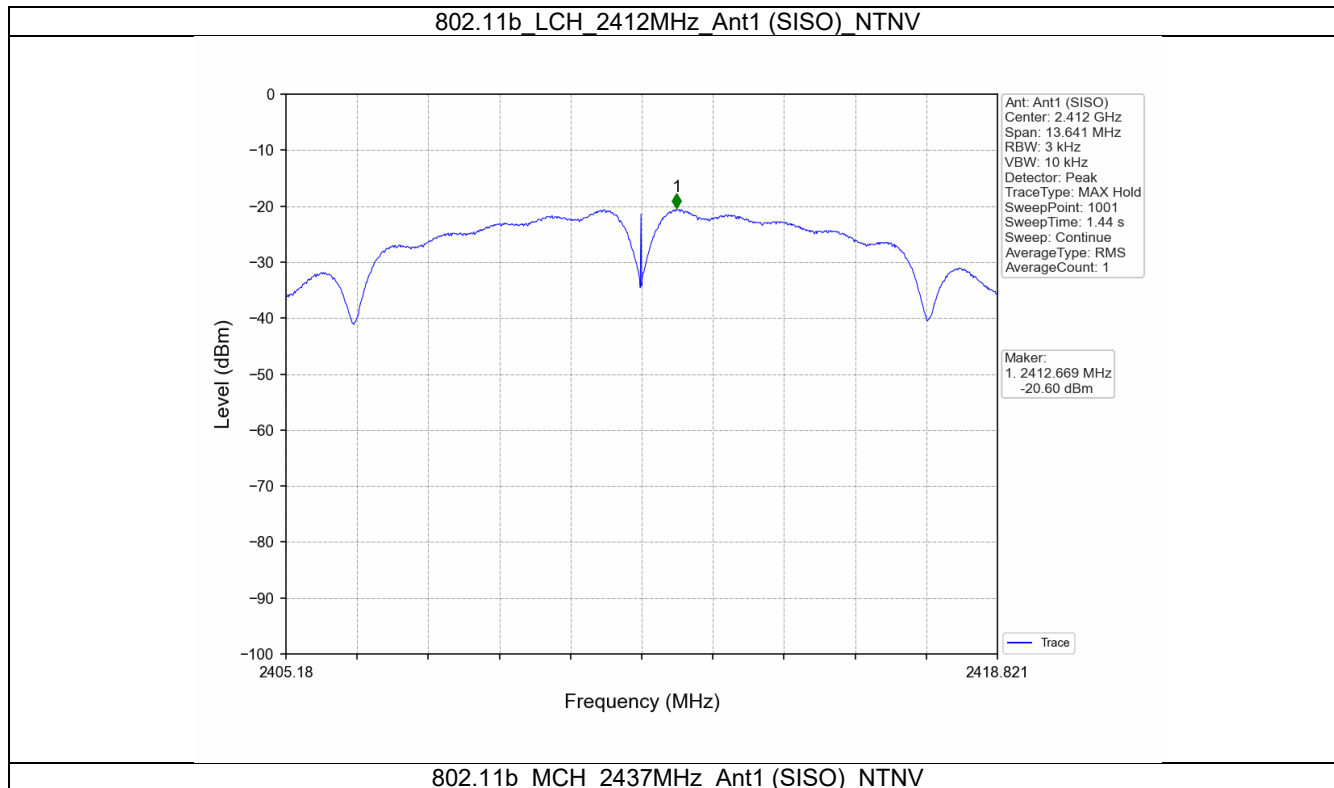
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## 4.1.2 Test Graph



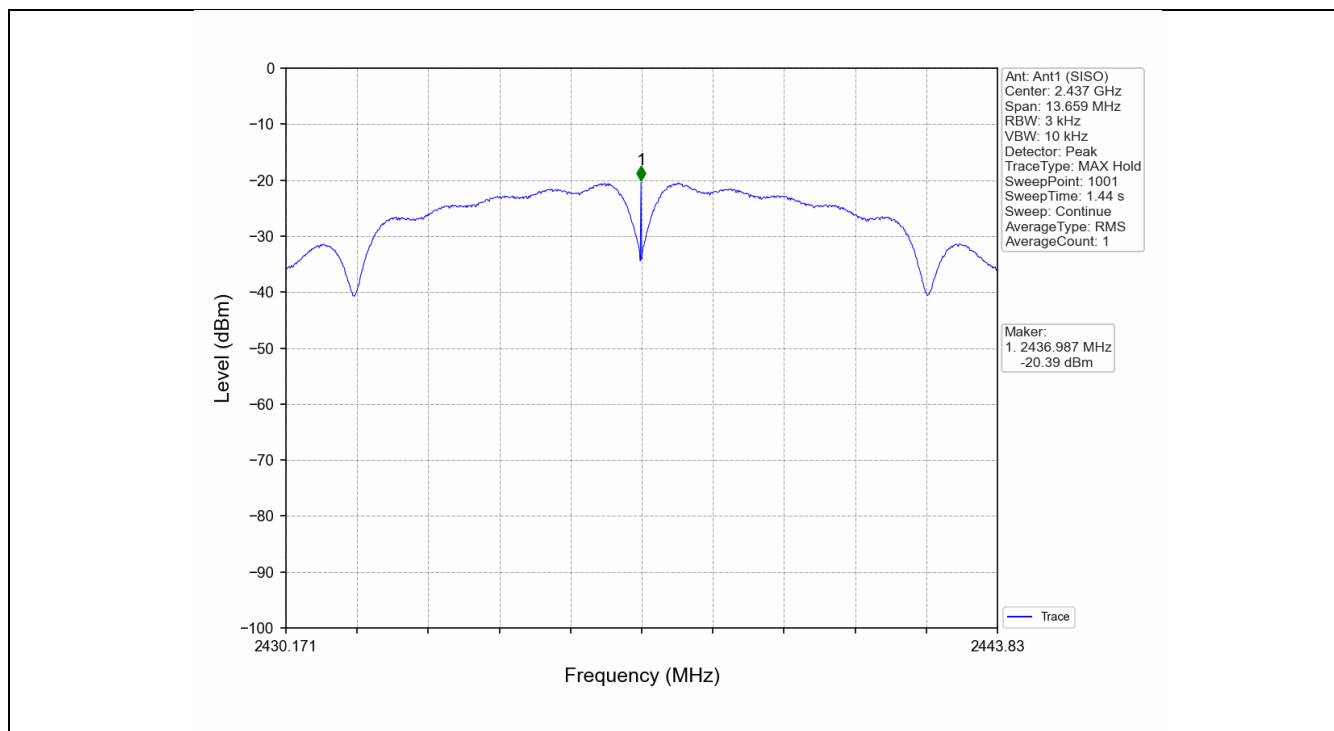
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802.11b HCH 2462MHz Ant1 (SISO) NTNv



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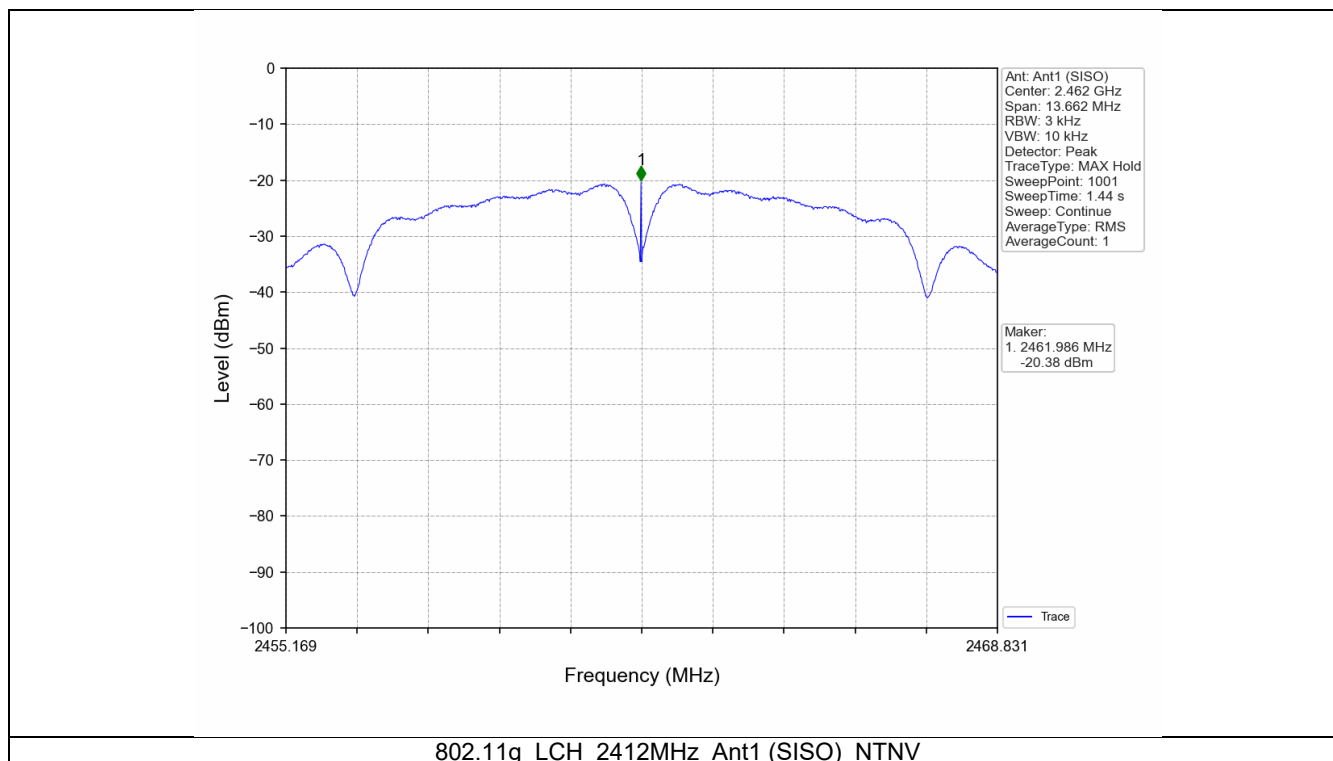
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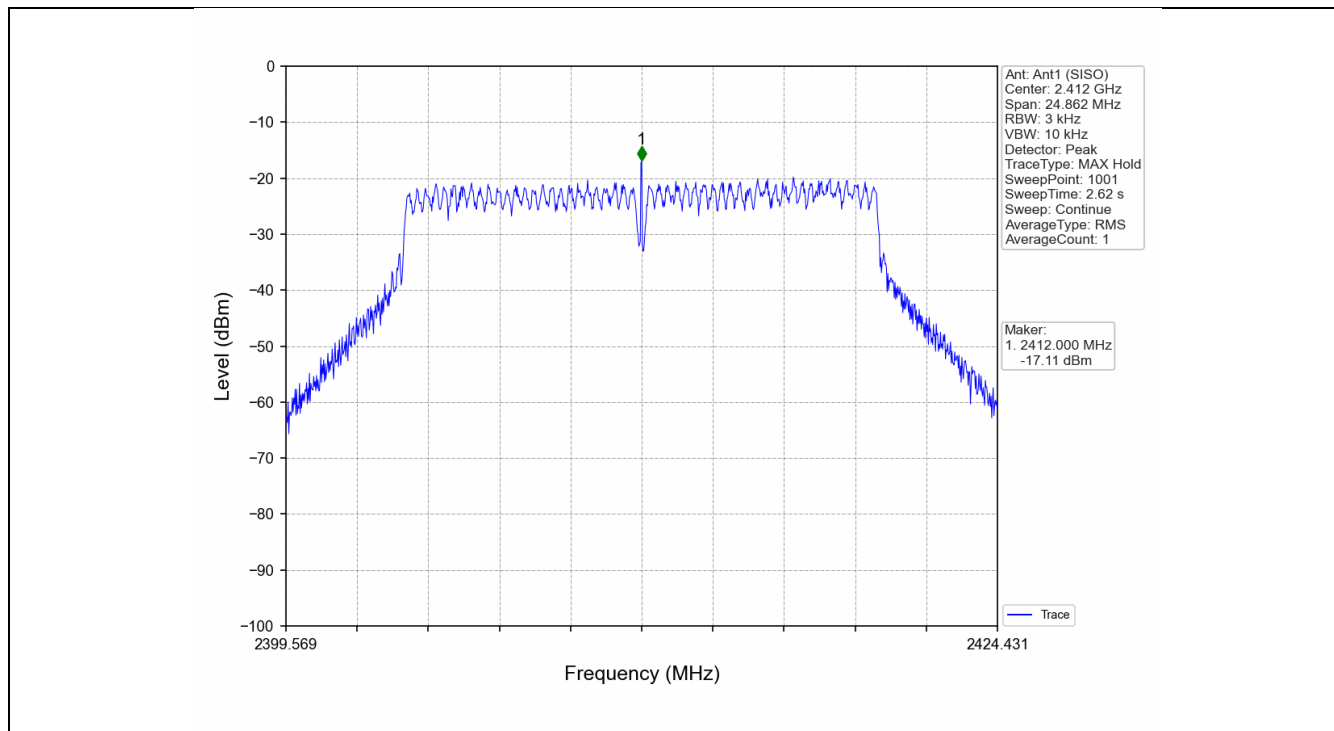


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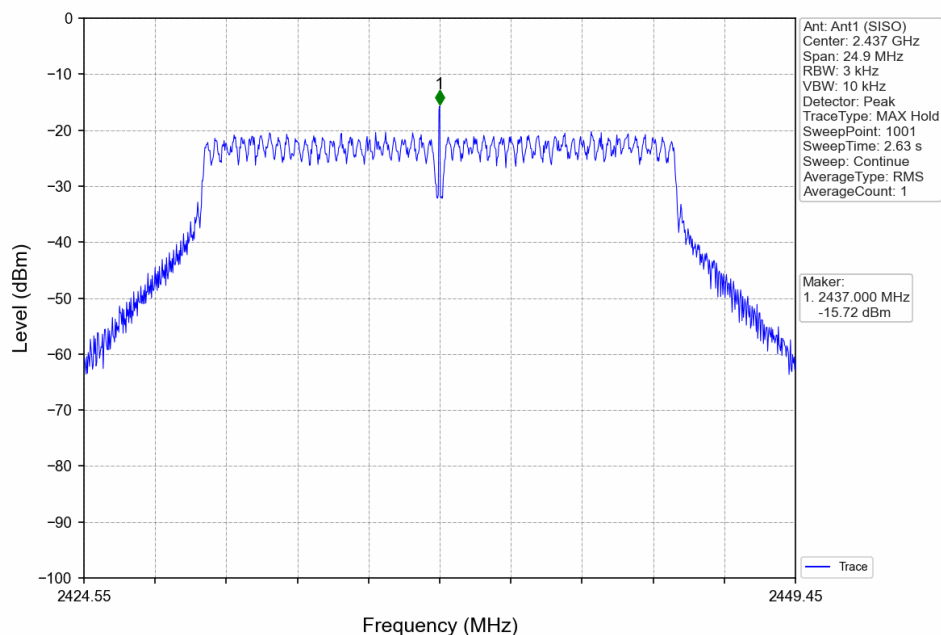


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802.11g HCH 2462MHz Ant1 (SISO) NTN

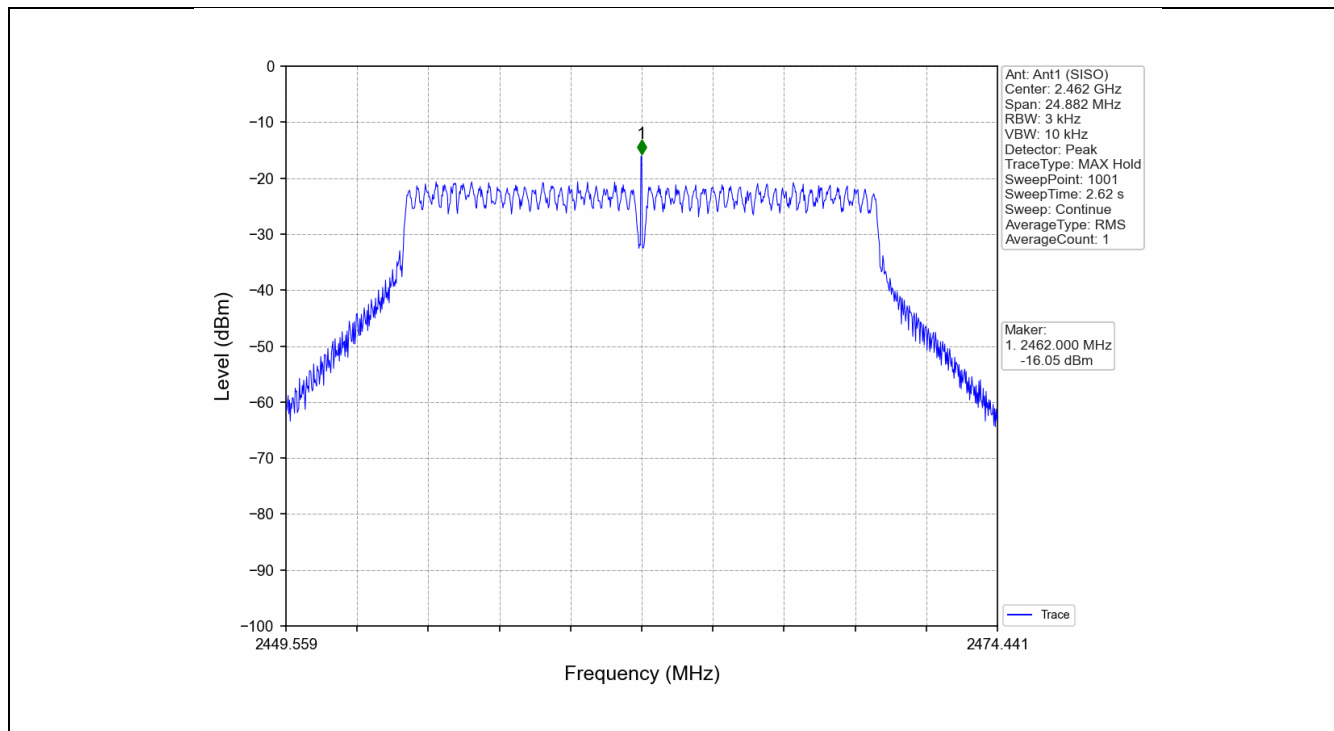


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802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV

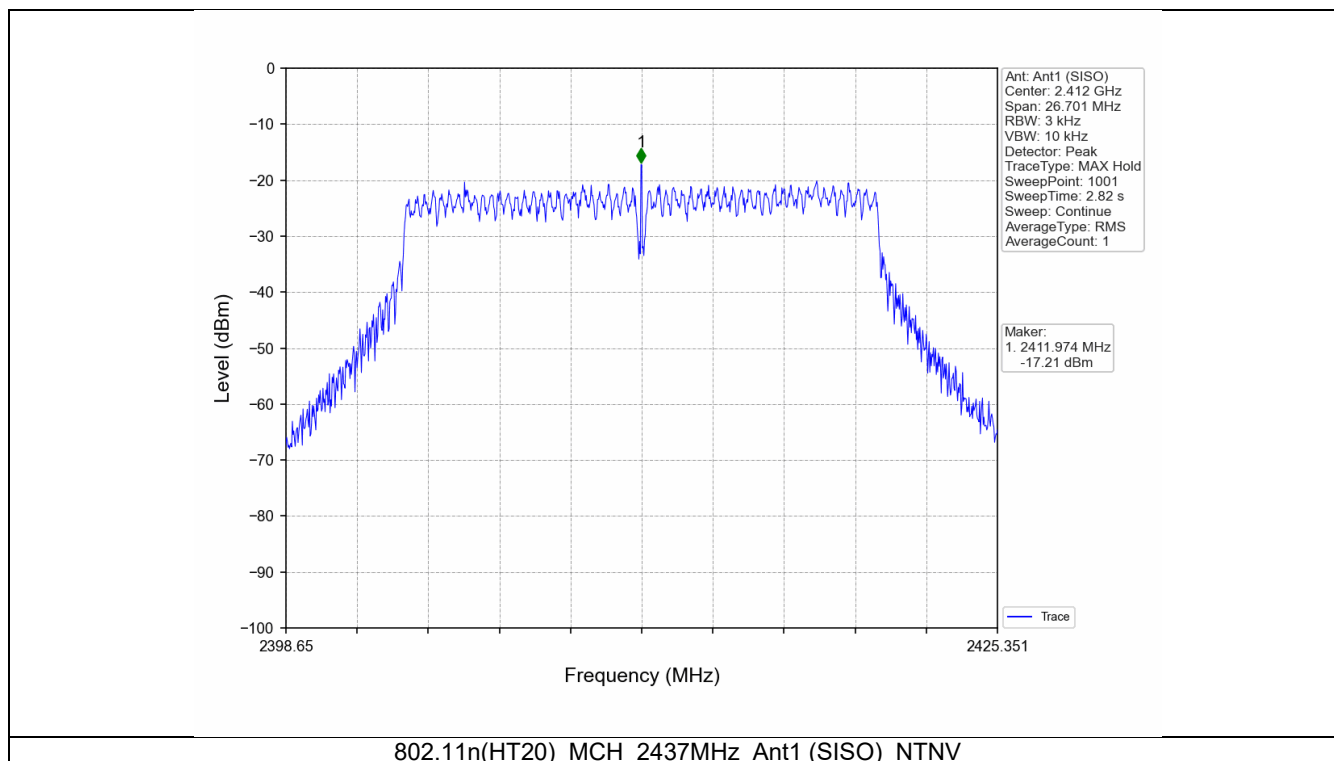


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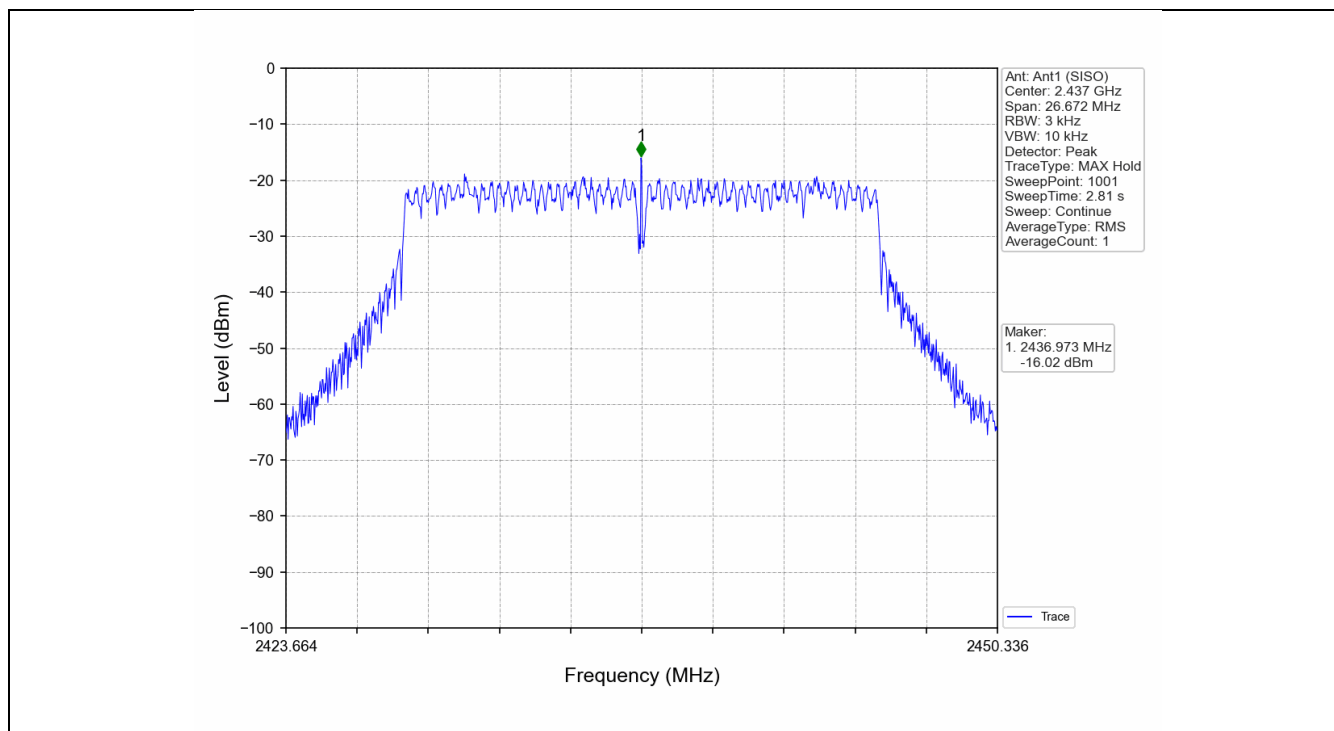
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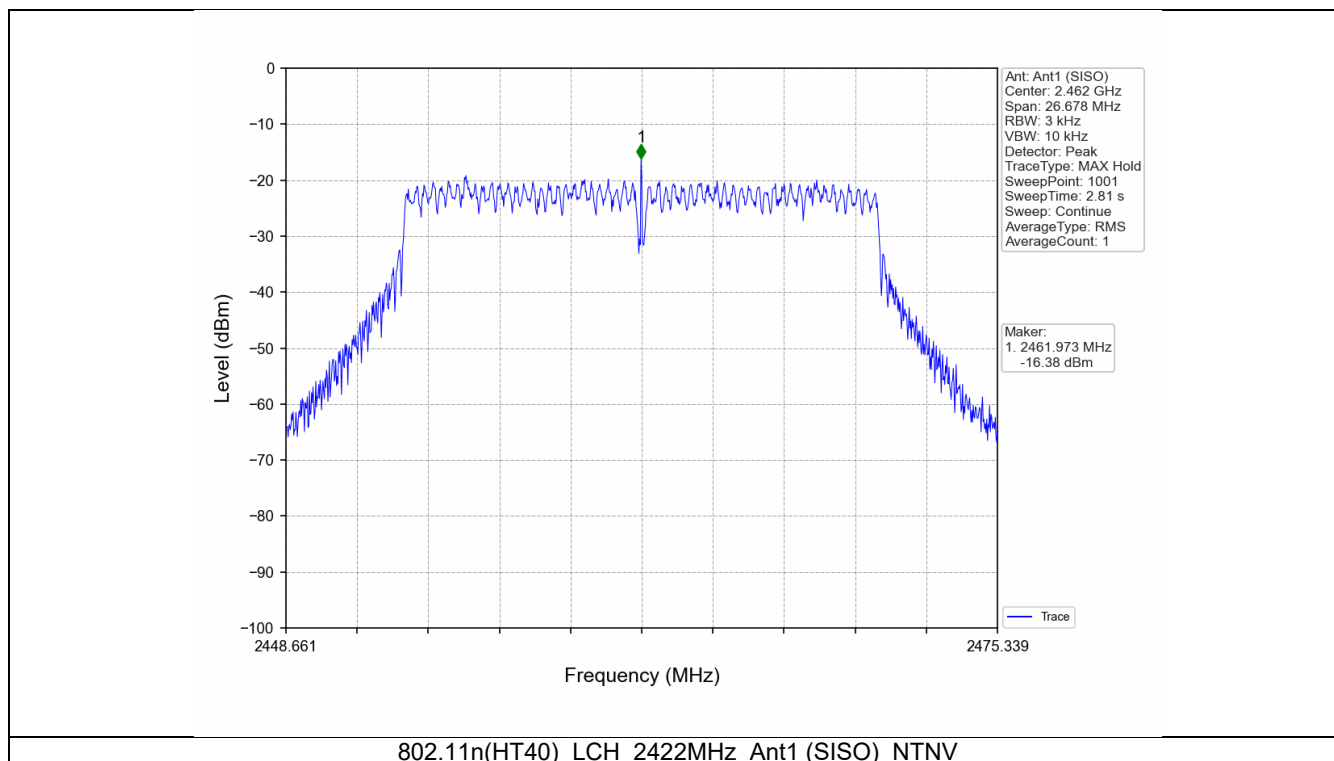


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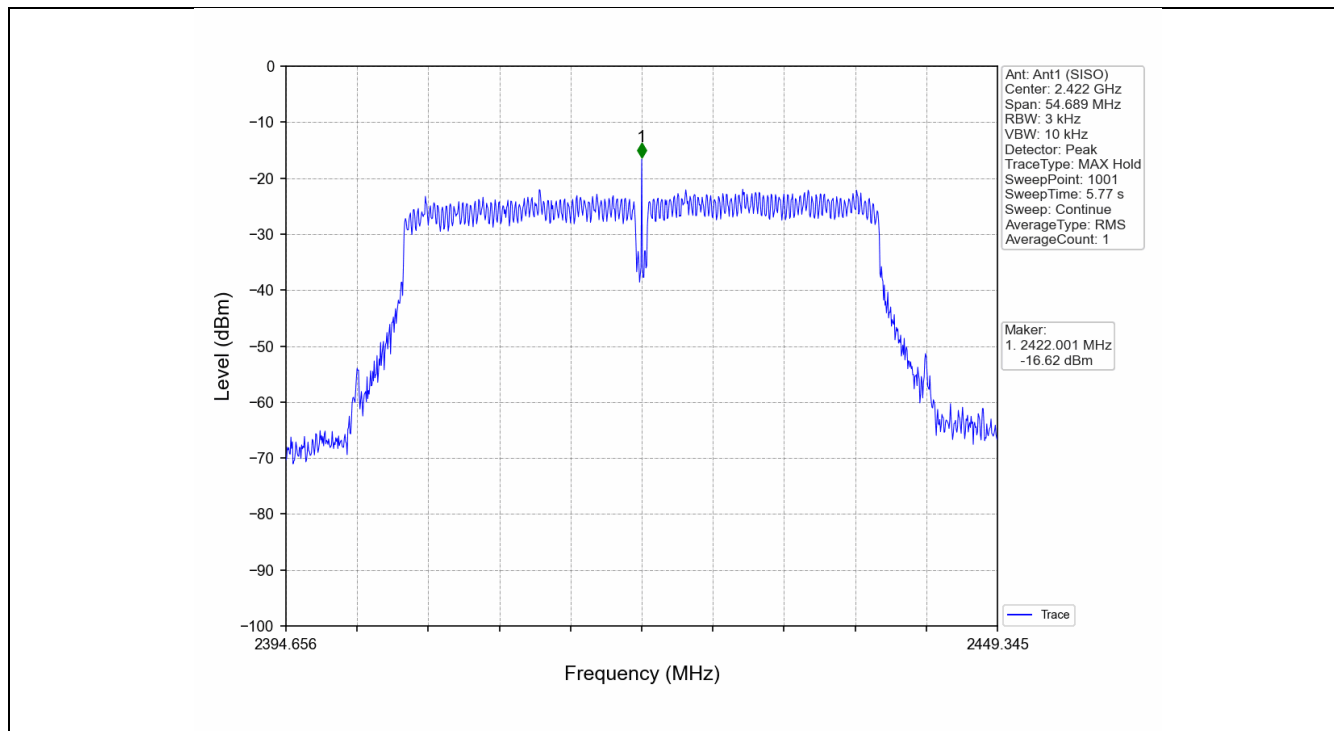


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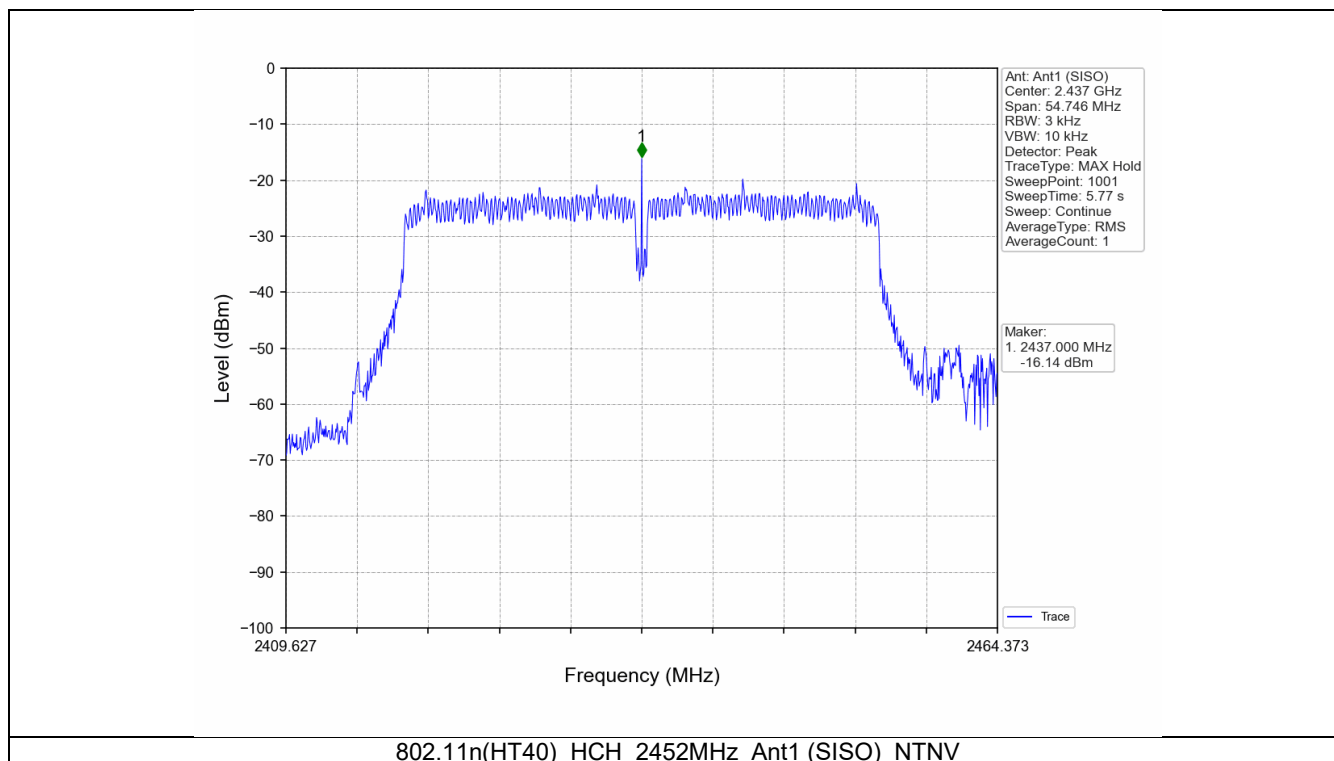


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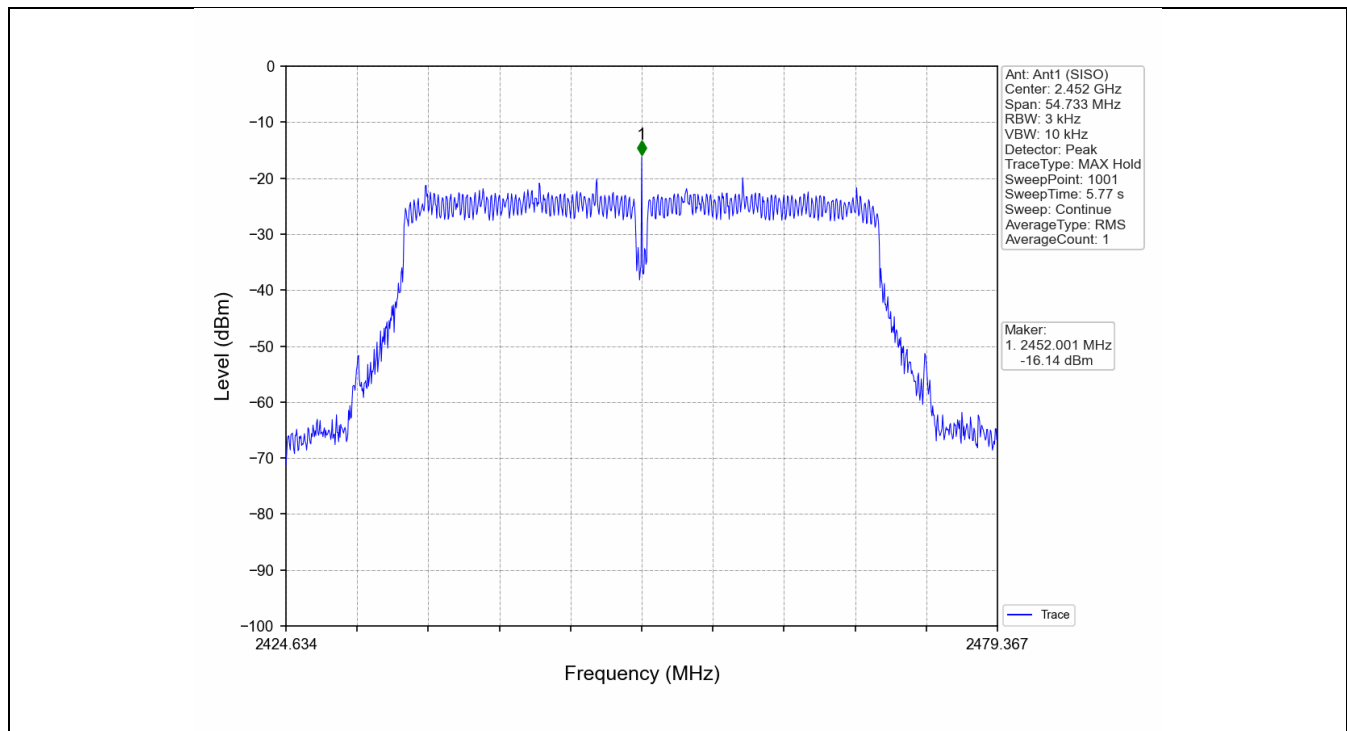
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## 5. Unwanted Emissions In Non-restricted Frequency Bands

### 5.1 Ref

#### 5.1.1 Test Result

| Mode           | TX Type | Frequency (MHz) | Ant | Level of Reference (dBm) |
|----------------|---------|-----------------|-----|--------------------------|
| 802.11b        | SISO    | 2412            | 1   | -0.54                    |
|                |         | 2437            | 1   | -0.46                    |
|                |         | 2462            | 1   | -0.57                    |
| 802.11g        | SISO    | 2412            | 1   | -5.57                    |
|                |         | 2437            | 1   | -4.80                    |
|                |         | 2462            | 1   | -5.12                    |
| 802.11n (HT20) | SISO    | 2412            | 1   | -6.38                    |
|                |         | 2437            | 1   | -5.27                    |
|                |         | 2462            | 1   | -5.32                    |
| 802.11n (HT40) | SISO    | 2422            | 1   | -8.45                    |
|                |         | 2437            | 1   | -8.44                    |
|                |         | 2452            | 1   | -8.31                    |

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



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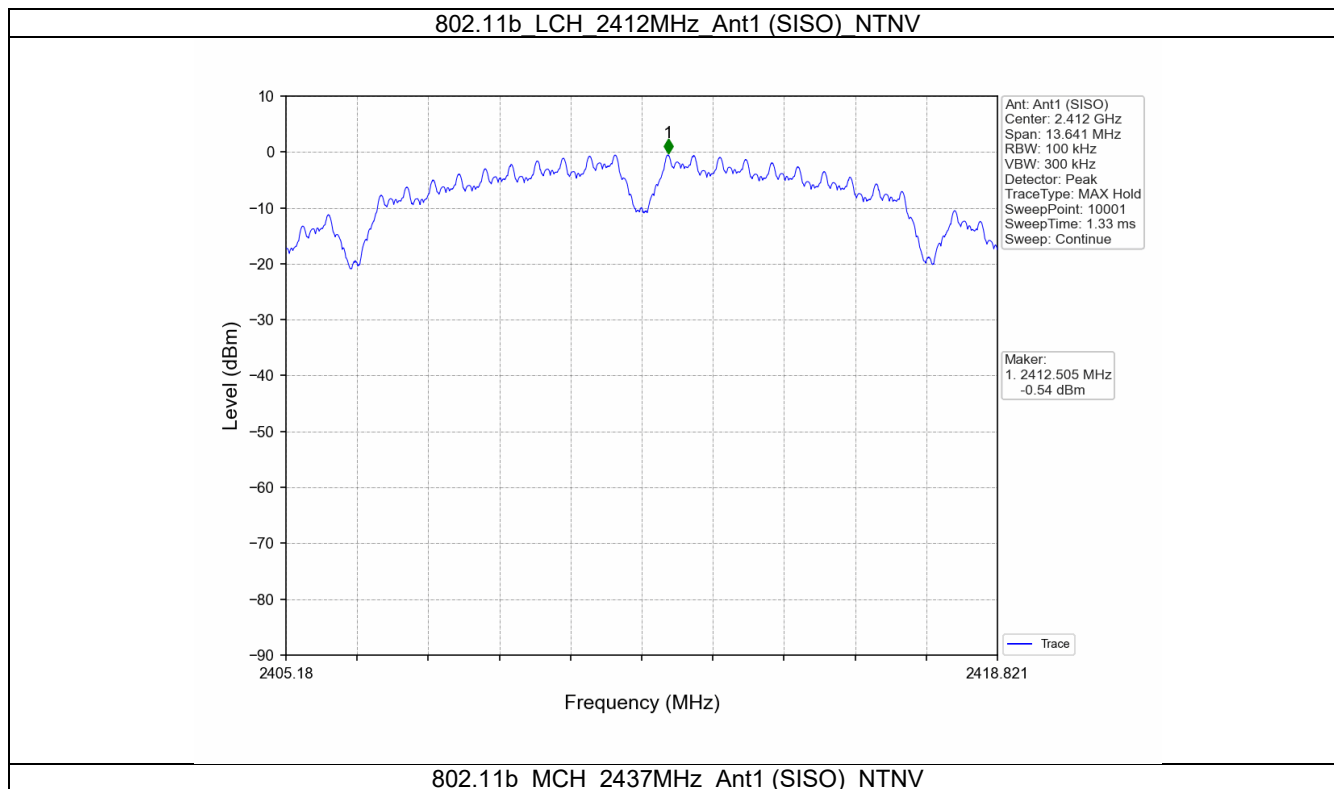
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establish the reference level.

## 5.1.2 Test Graph



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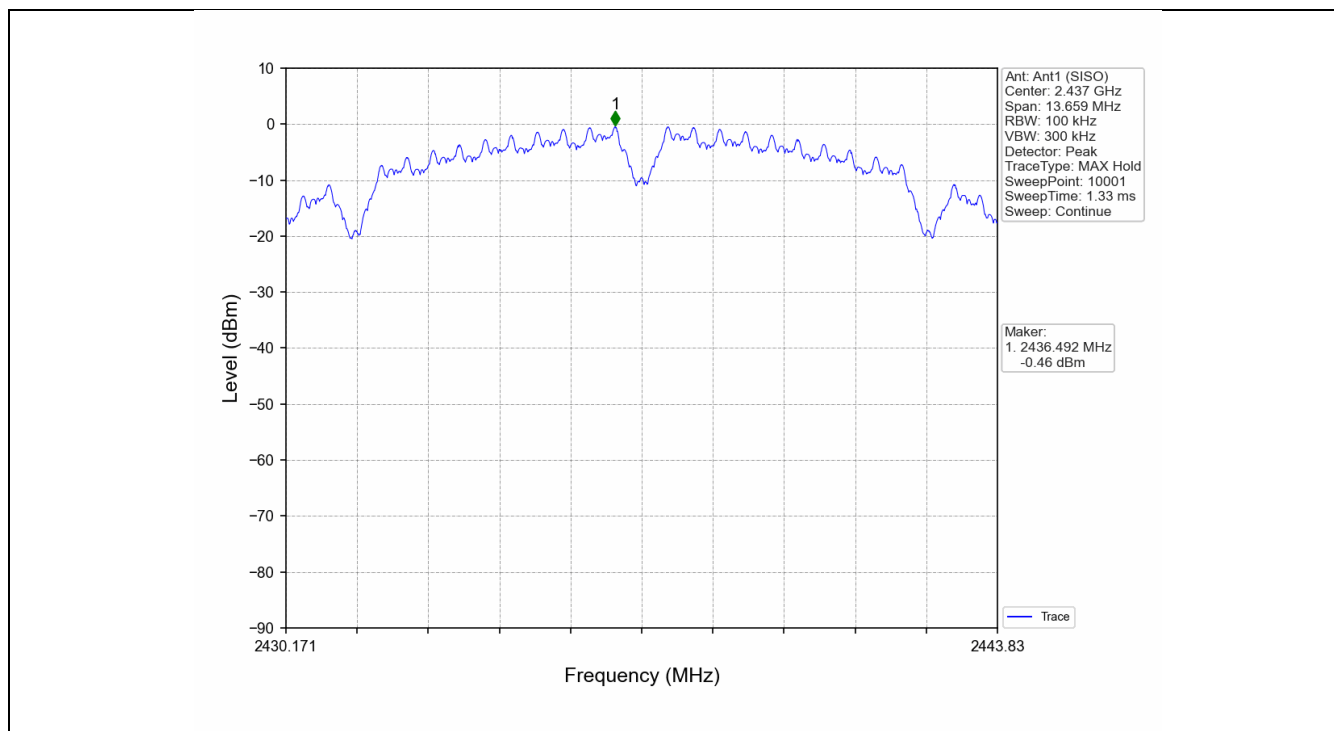
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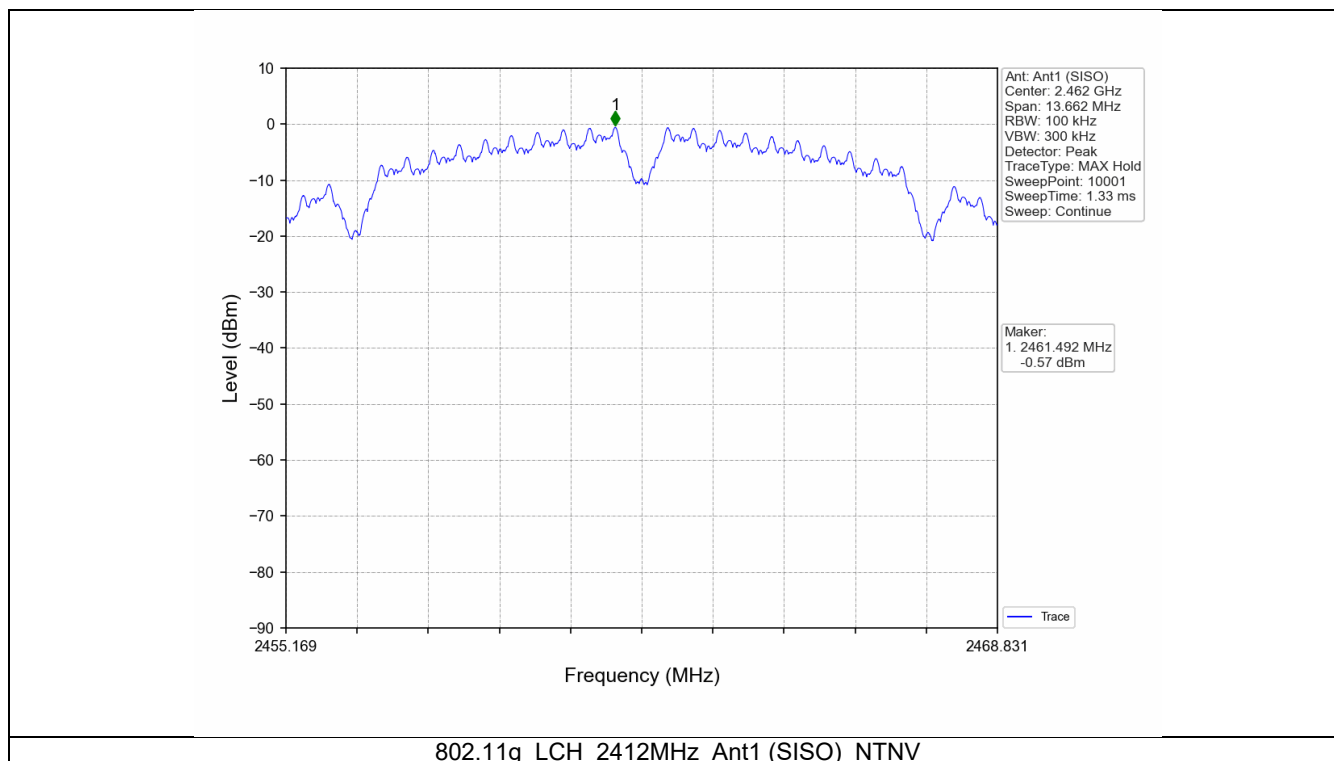


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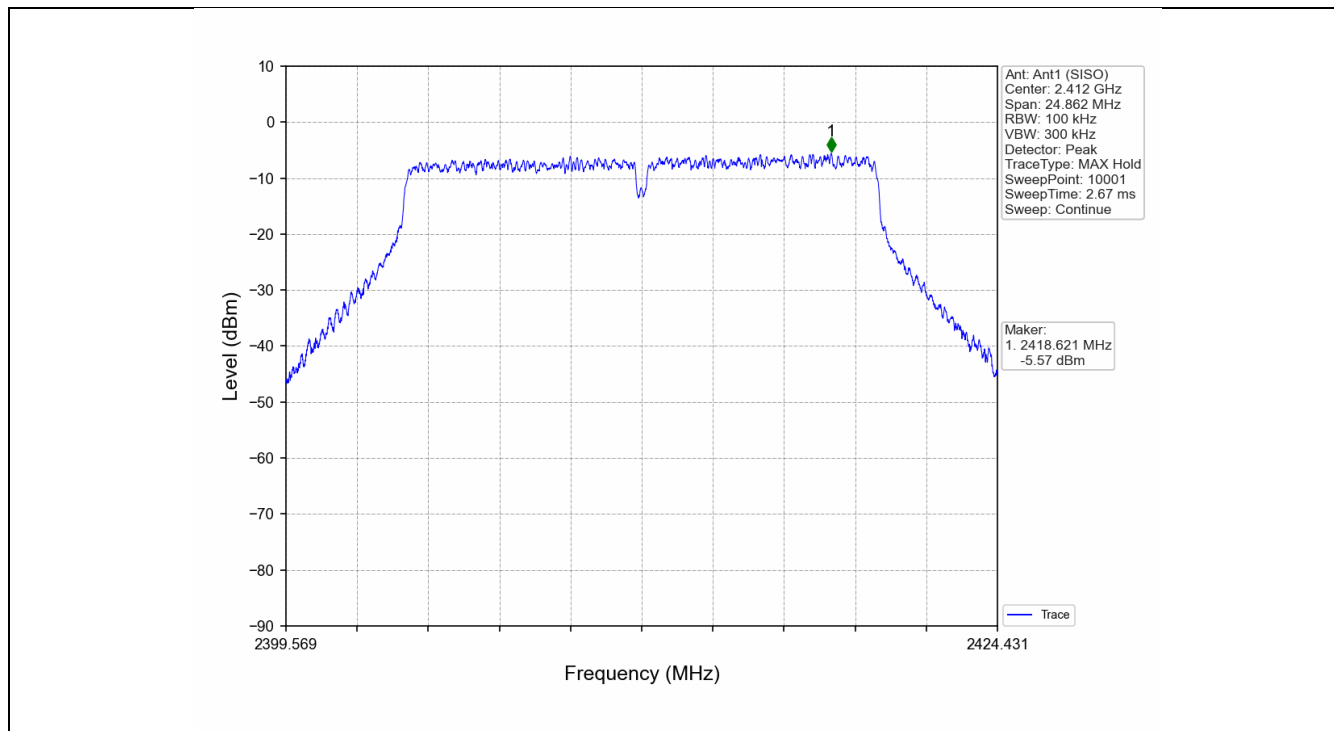


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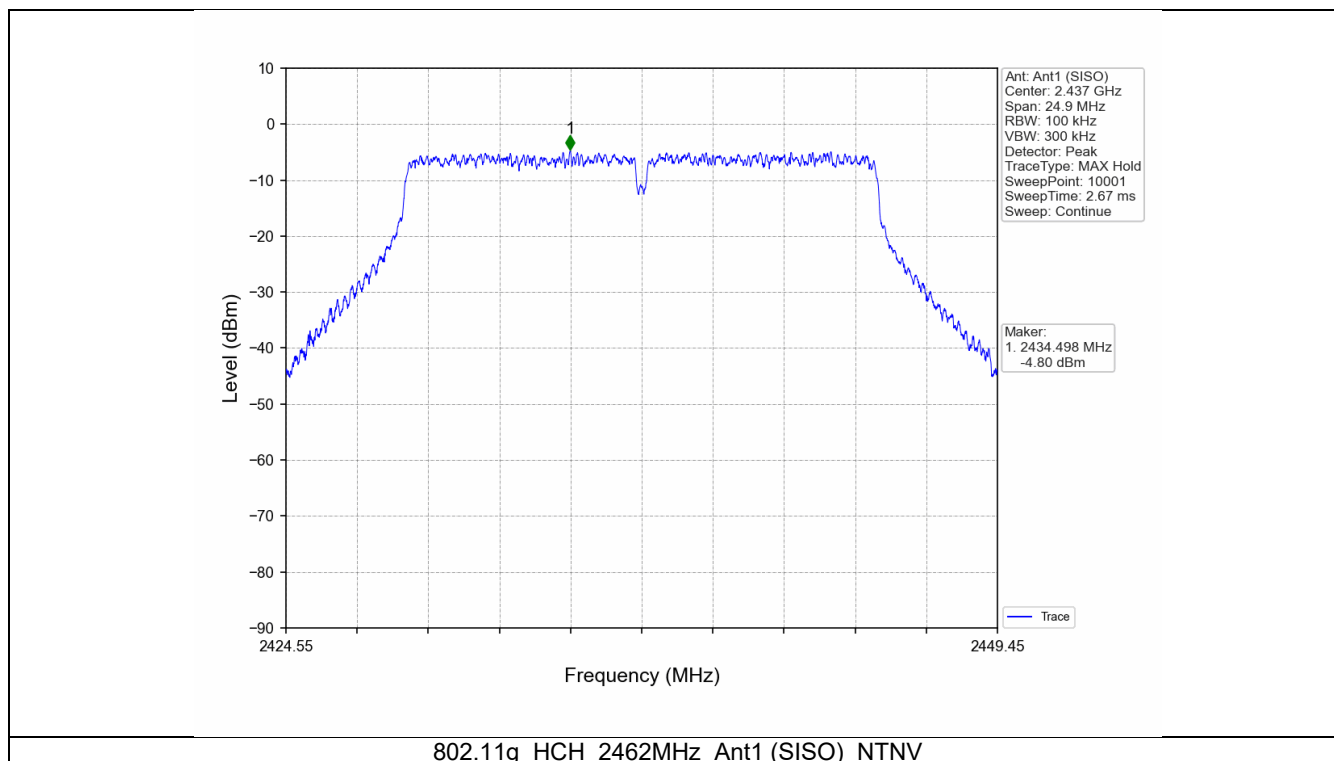
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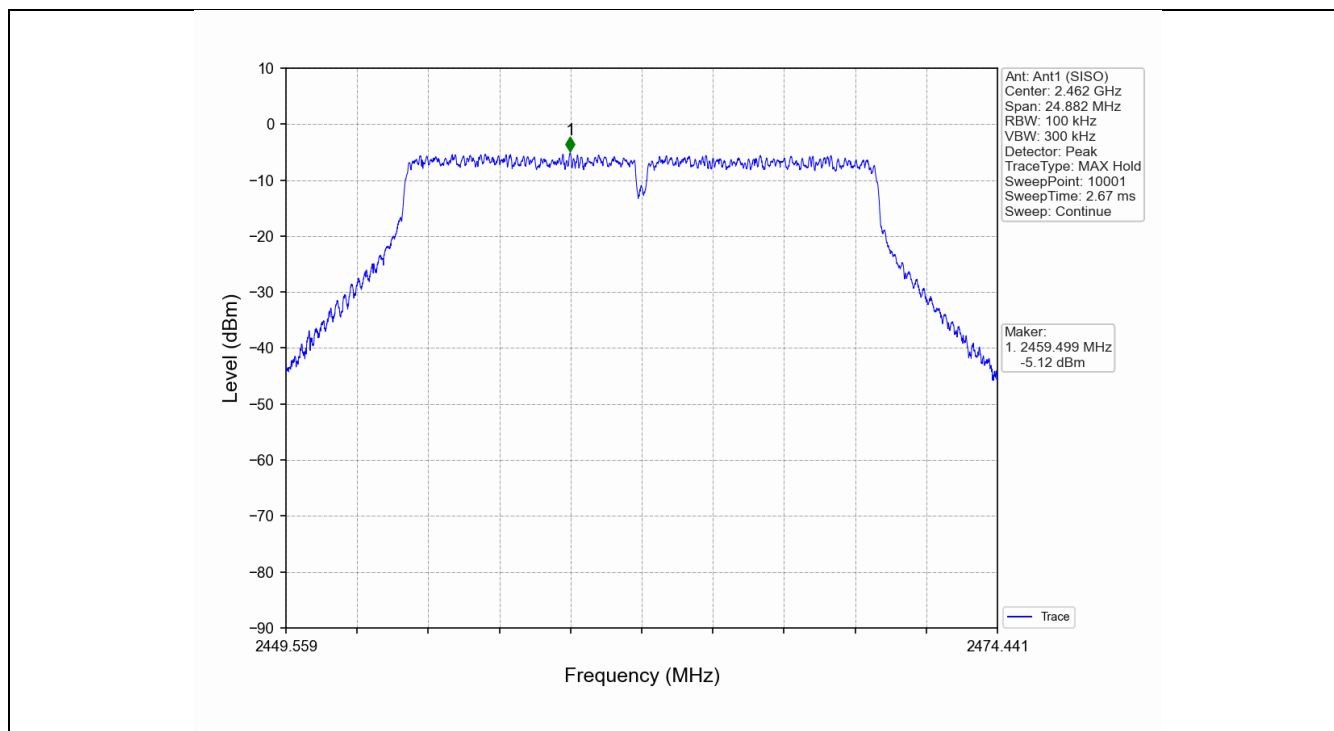


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802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV

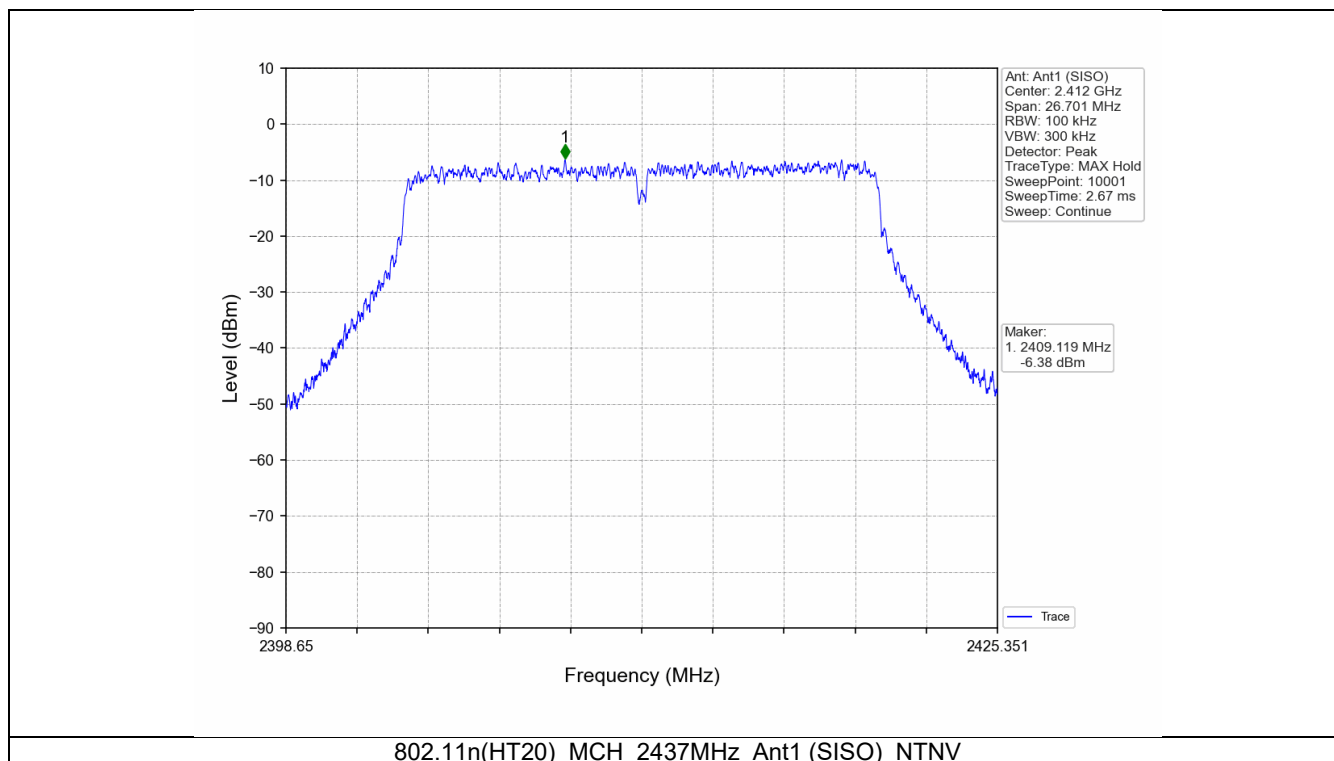


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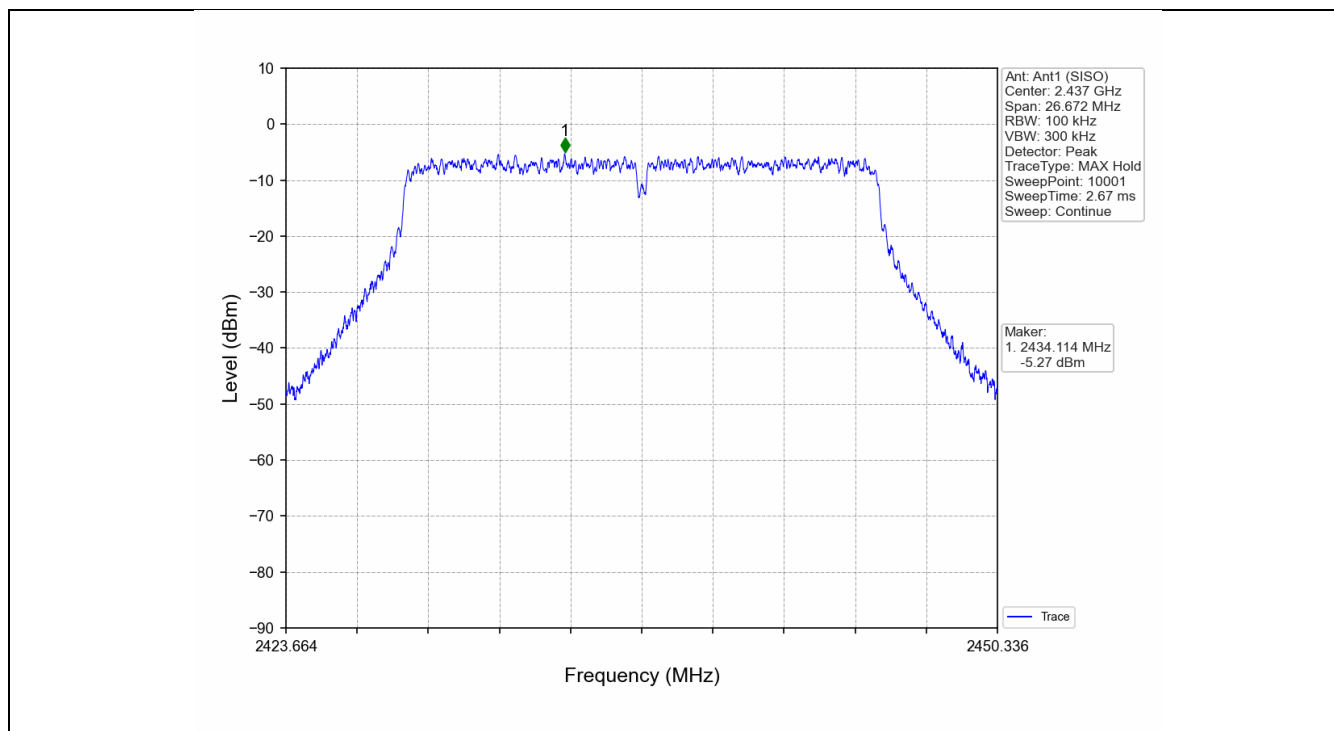
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802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV

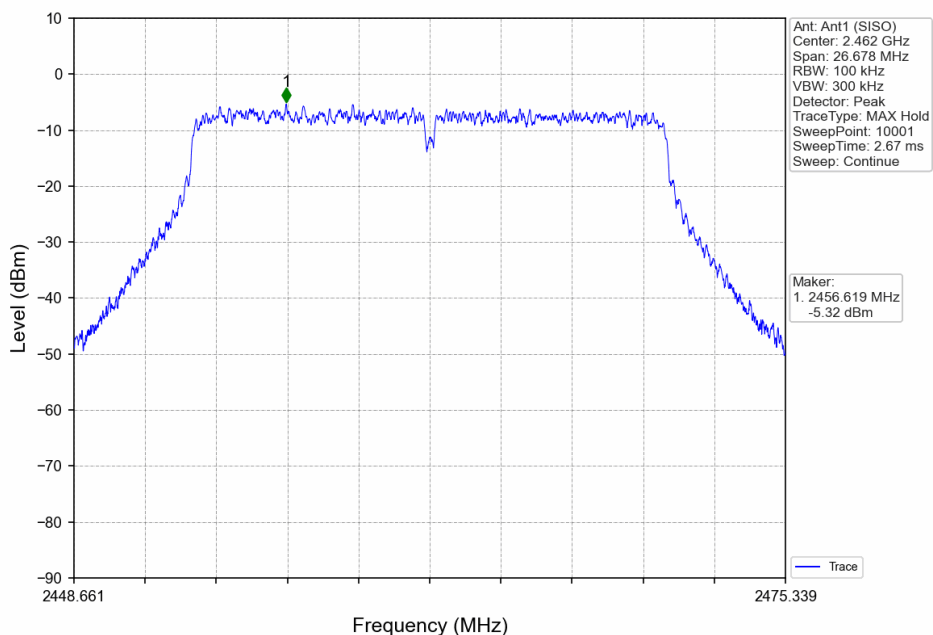


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802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV

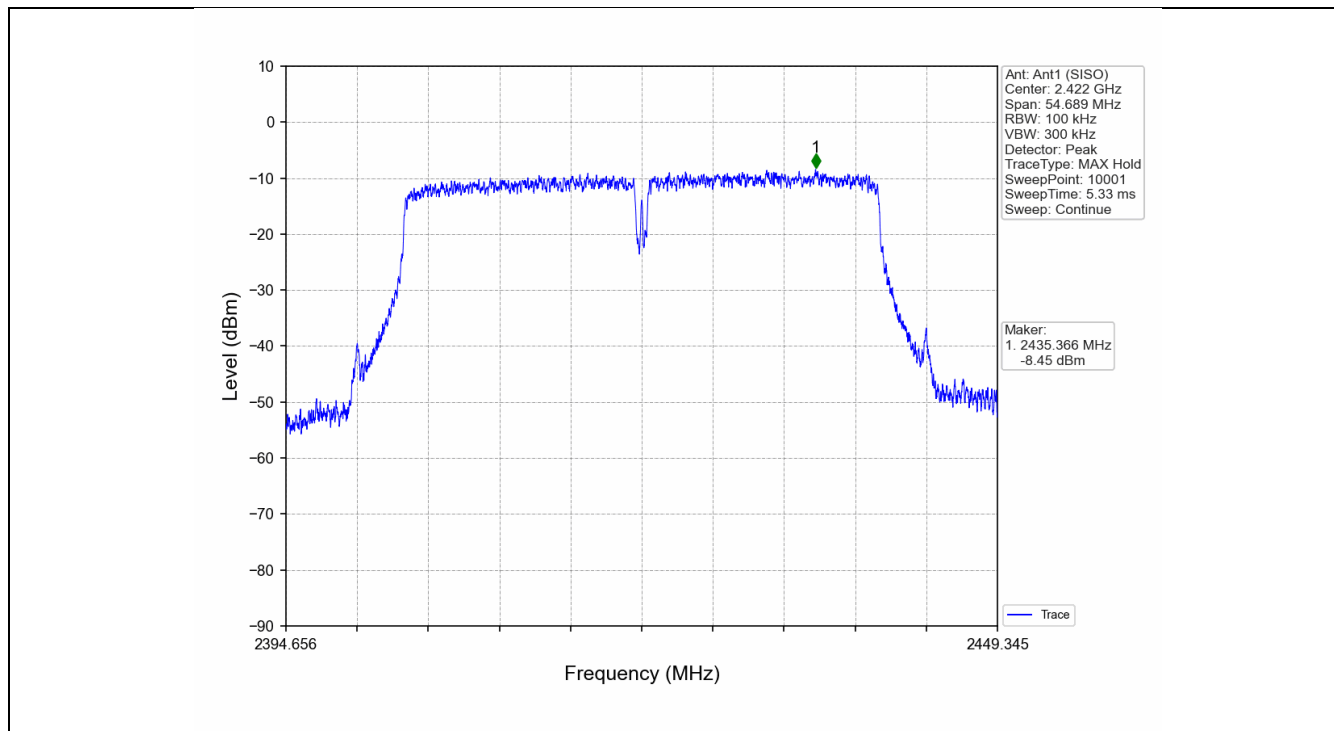


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802.11n(HT40) MCH 2437MHz Ant1 (SISO) NTNV

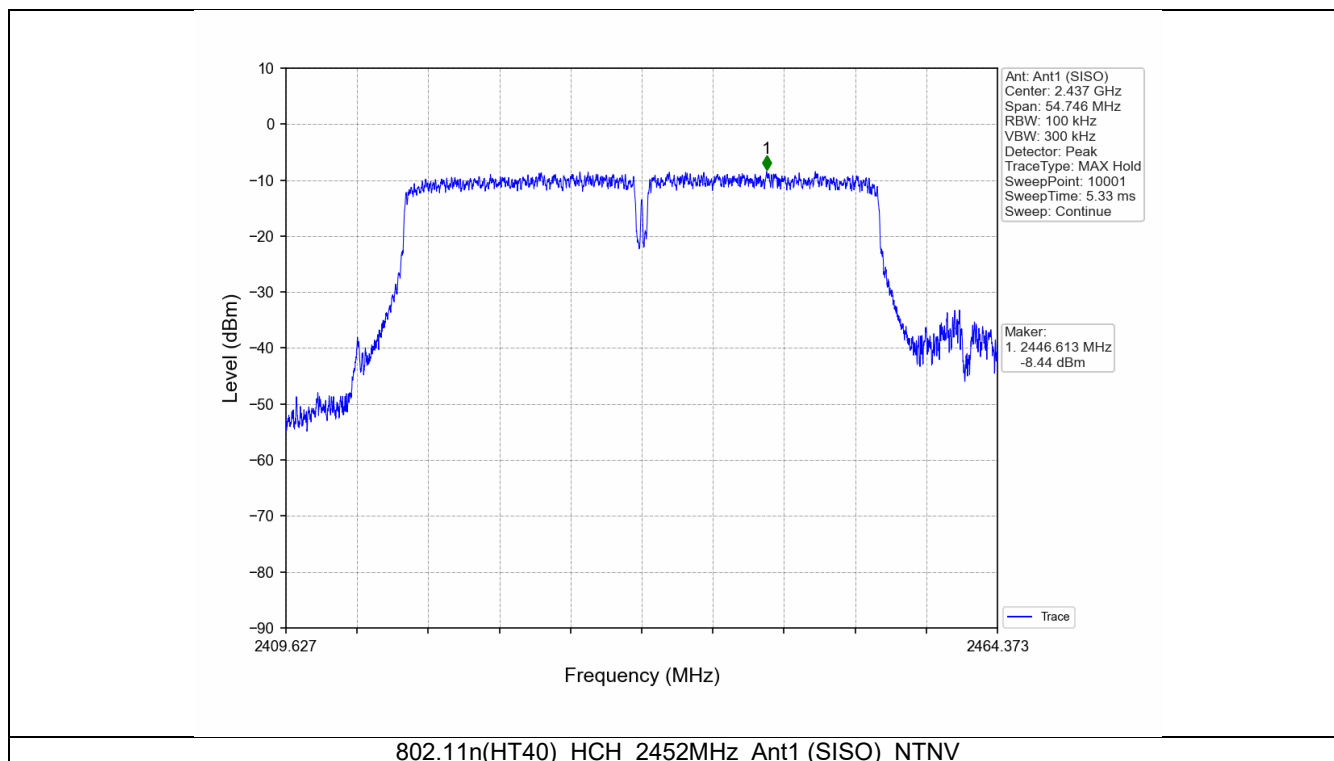


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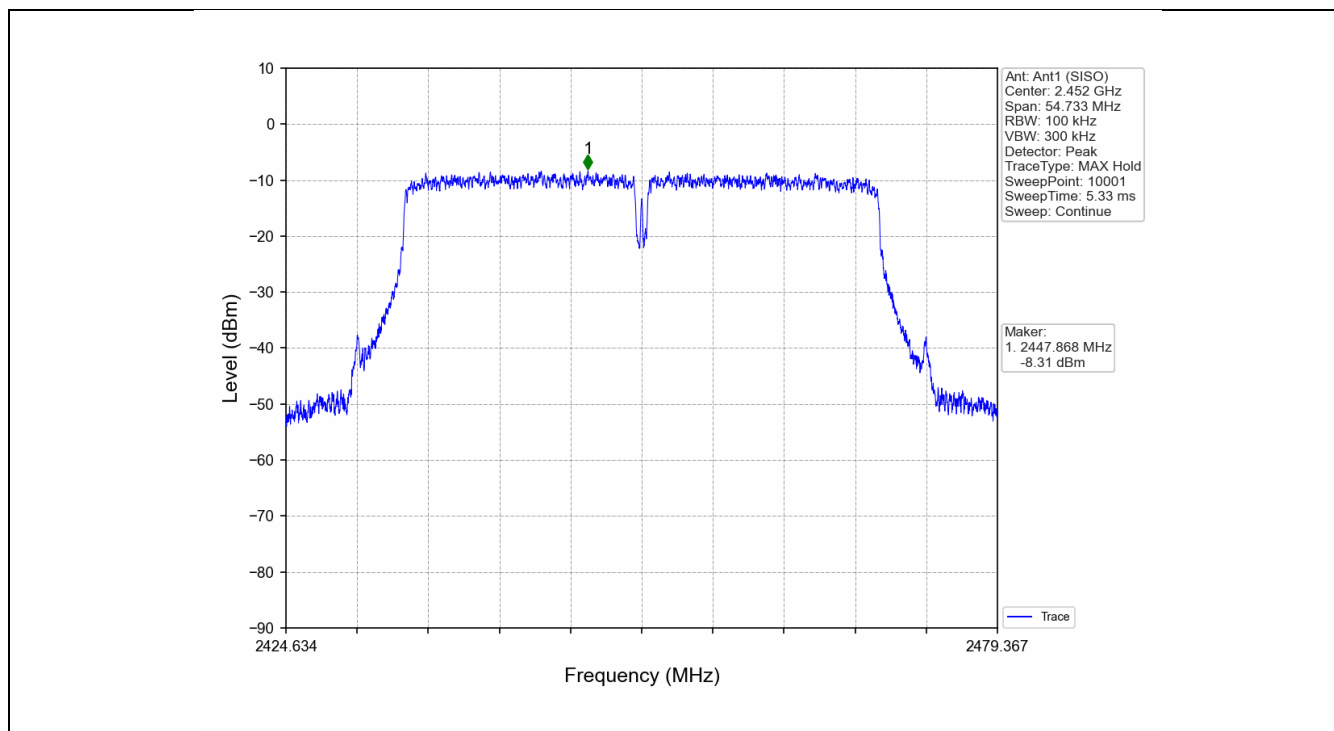


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## 5.2 CSE

### 5.2.1 Test Result

| Mode           | TX Type | Frequency (MHz) | Ant | Level of Reference (dBm) | Limit (dBm) | Verdict |
|----------------|---------|-----------------|-----|--------------------------|-------------|---------|
| 802.11b        | SISO    | 2412            | 1   | -0.46                    | -30.46      | Pass    |
|                |         | 2437            | 1   | -0.46                    | -30.46      | Pass    |
|                |         | 2462            | 1   | -0.46                    | -30.46      | Pass    |
| 802.11g        | SISO    | 2412            | 1   | -4.80                    | -34.80      | Pass    |
|                |         | 2437            | 1   | -4.80                    | -34.80      | Pass    |
|                |         | 2462            | 1   | -4.80                    | -34.80      | Pass    |
| 802.11n (HT20) | SISO    | 2412            | 1   | -5.27                    | -35.27      | Pass    |
|                |         | 2437            | 1   | -5.27                    | -35.27      | Pass    |
|                |         | 2462            | 1   | -5.27                    | -35.27      | Pass    |
| 802.11n (HT40) | SISO    | 2422            | 1   | -8.31                    | -38.31      | Pass    |
|                |         | 2437            | 1   | -8.31                    | -38.31      | Pass    |
|                |         | 2452            | 1   | -8.31                    | -38.31      | 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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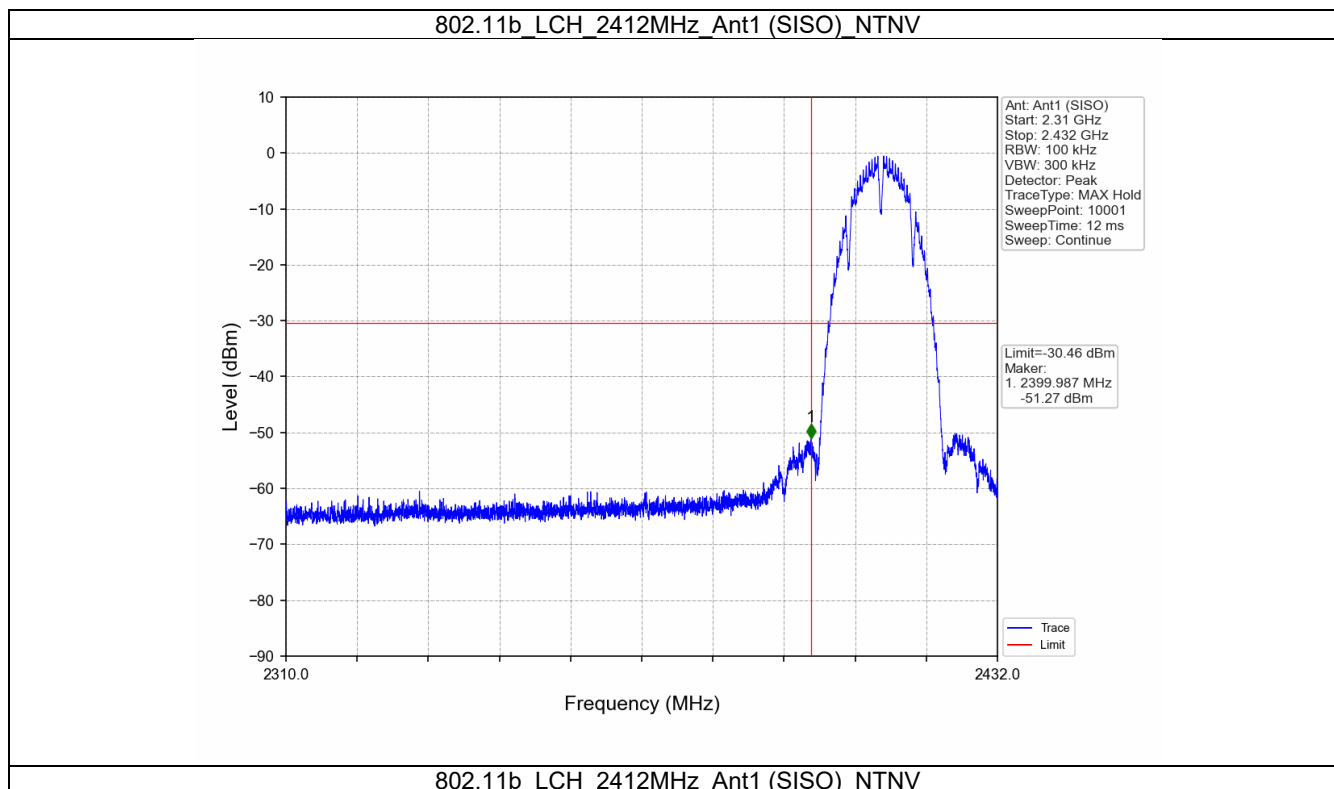
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## 5.2.2 Test Graph



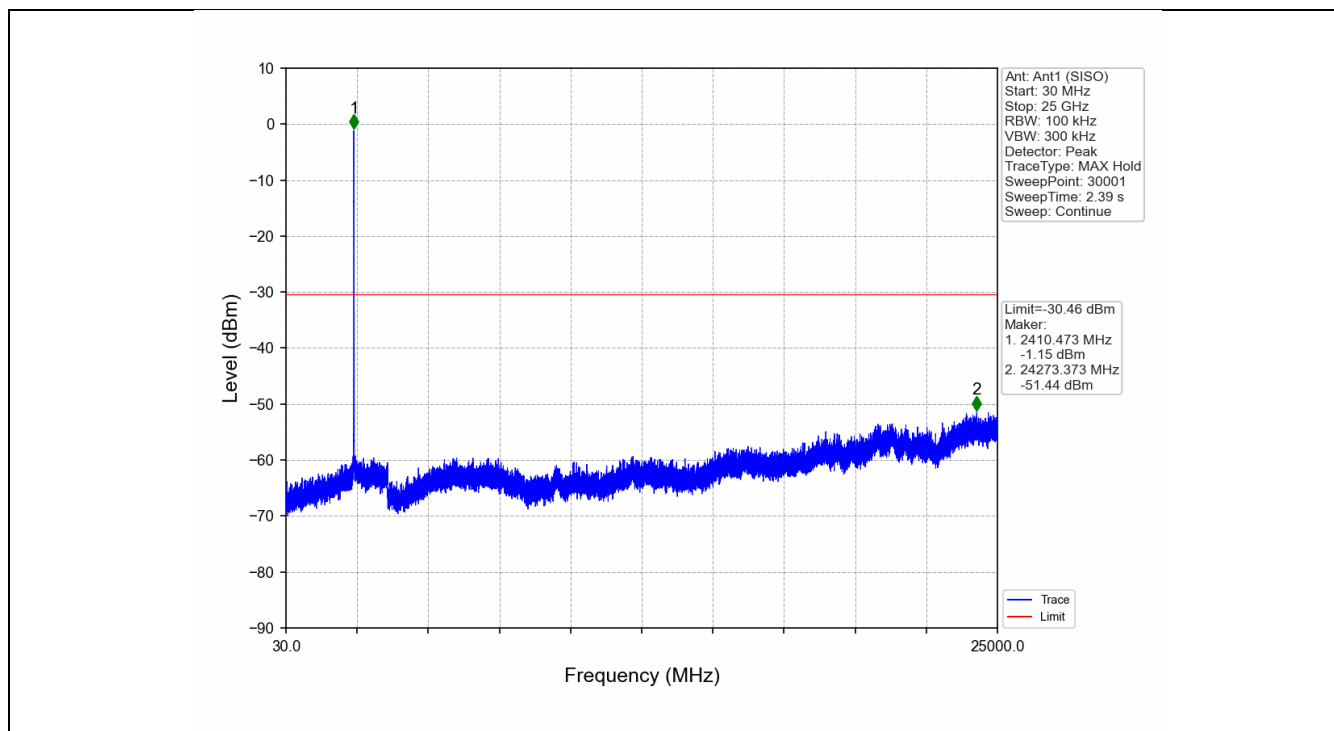
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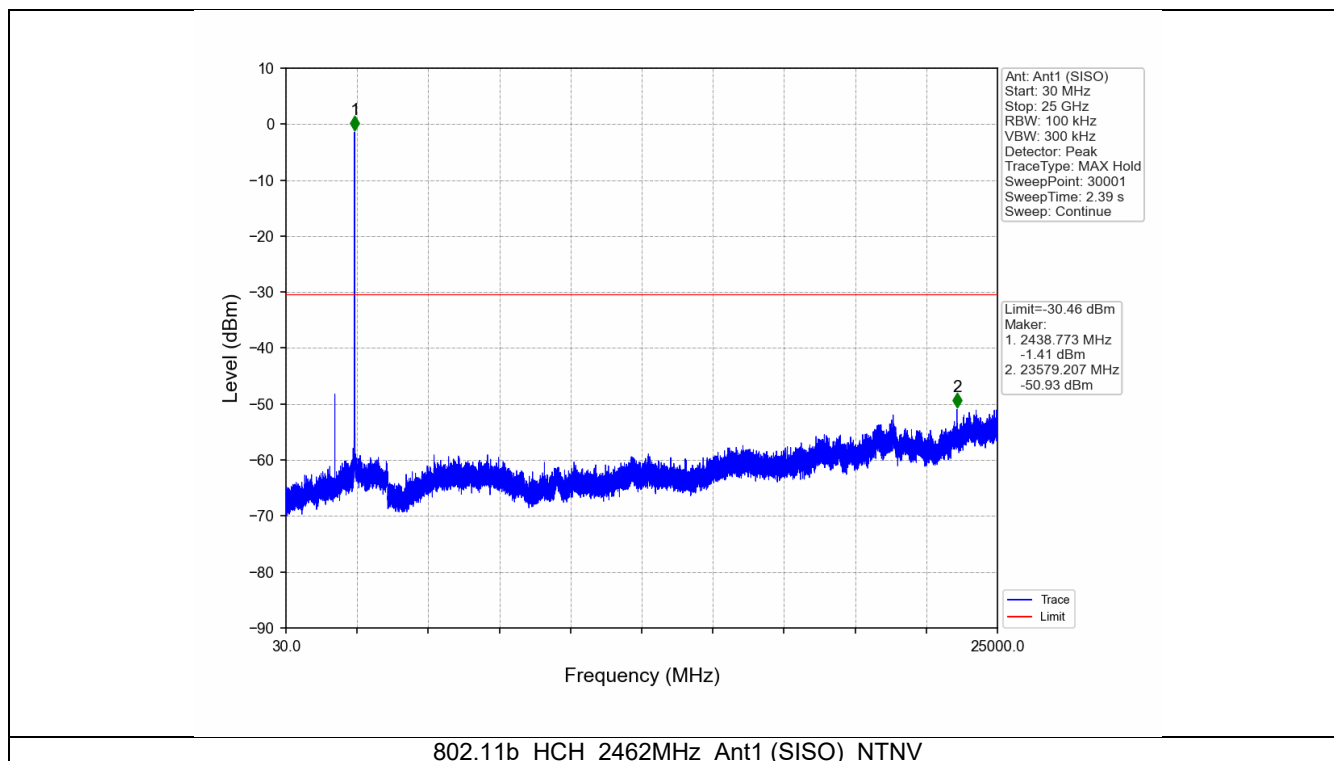


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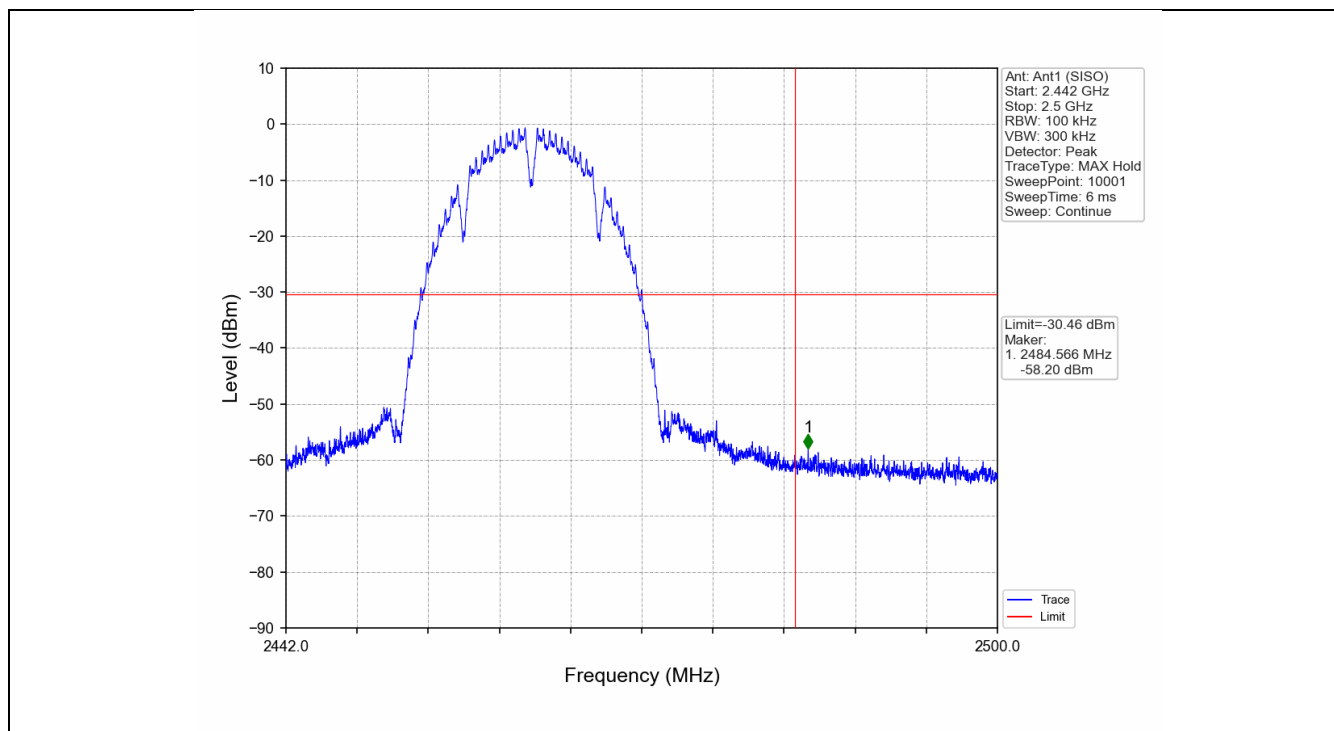


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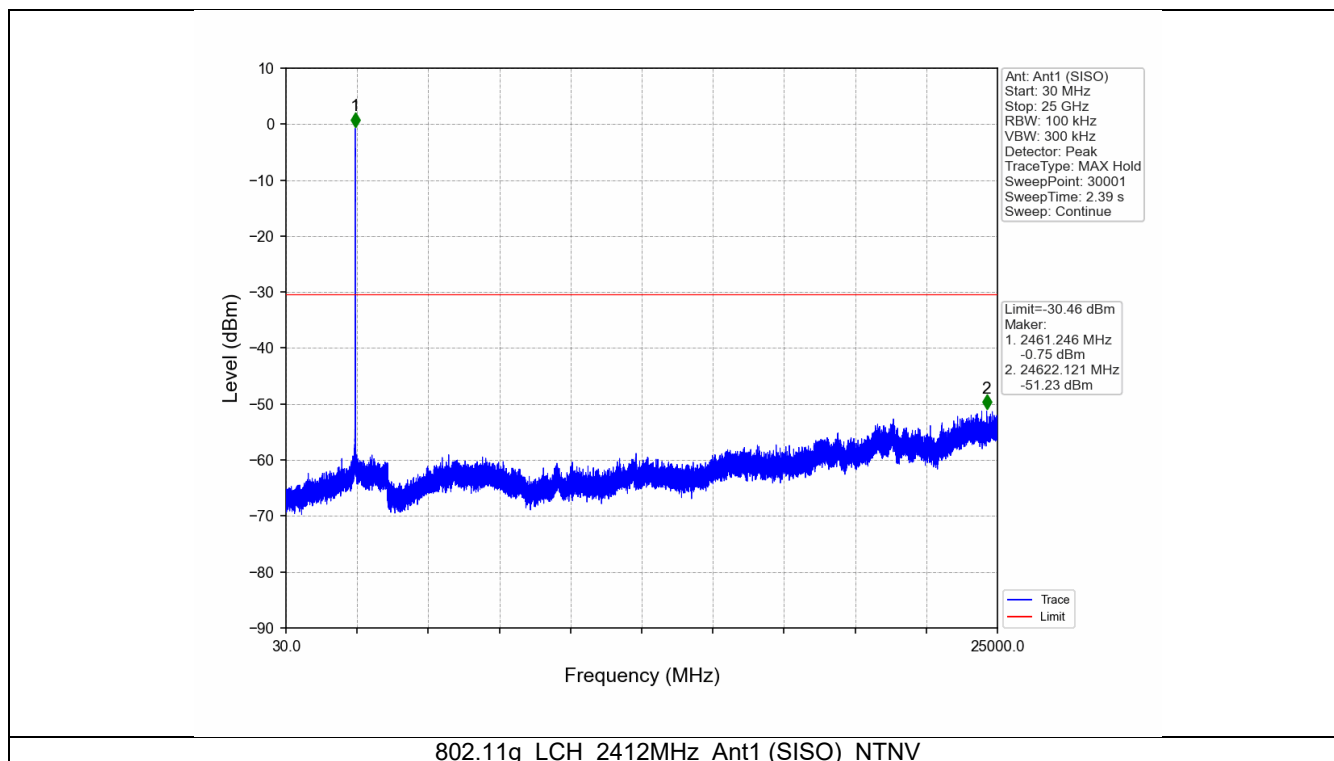
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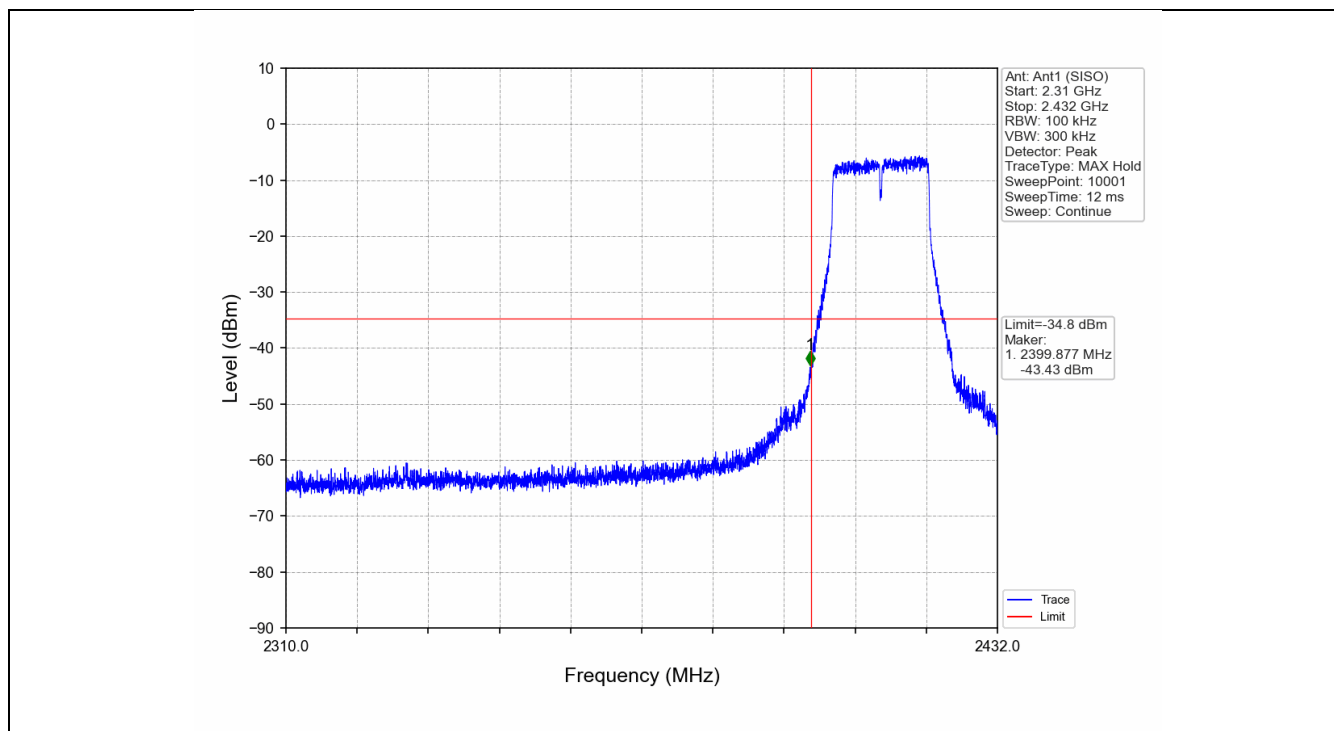


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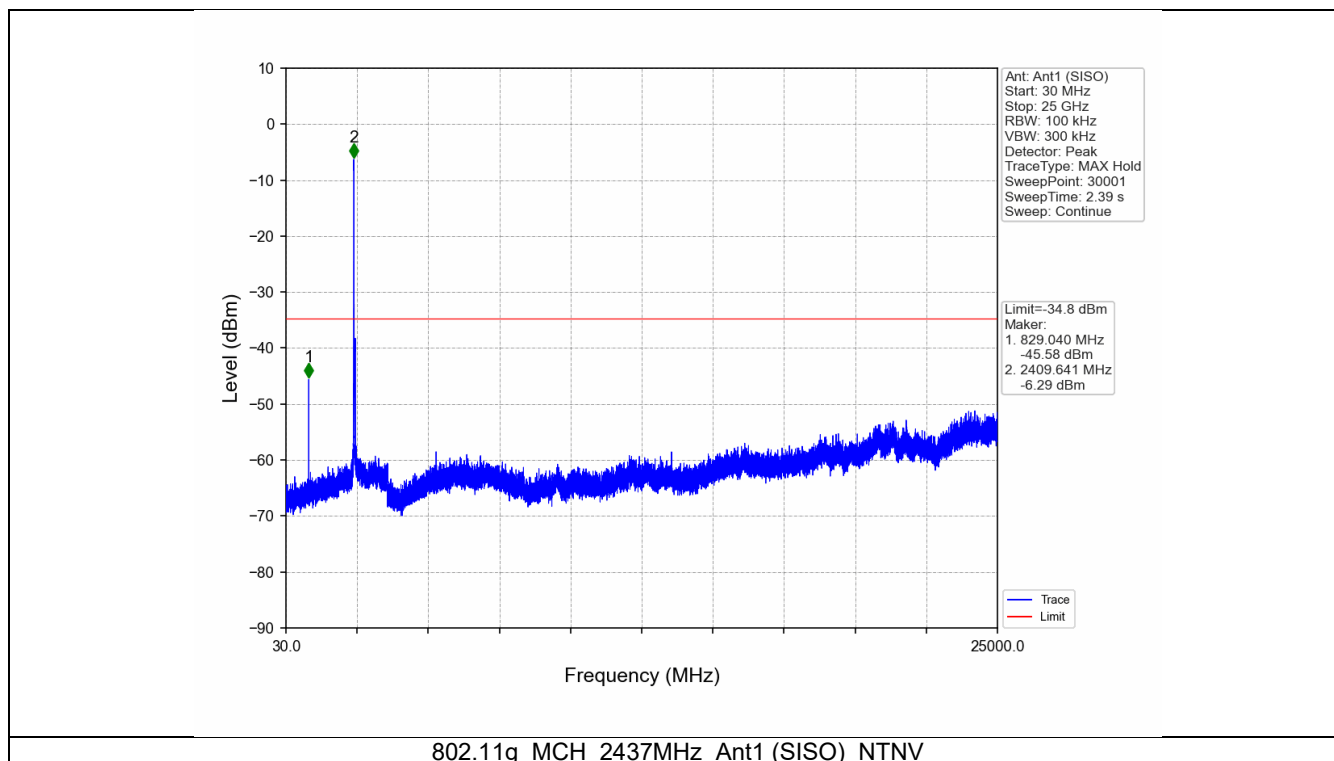


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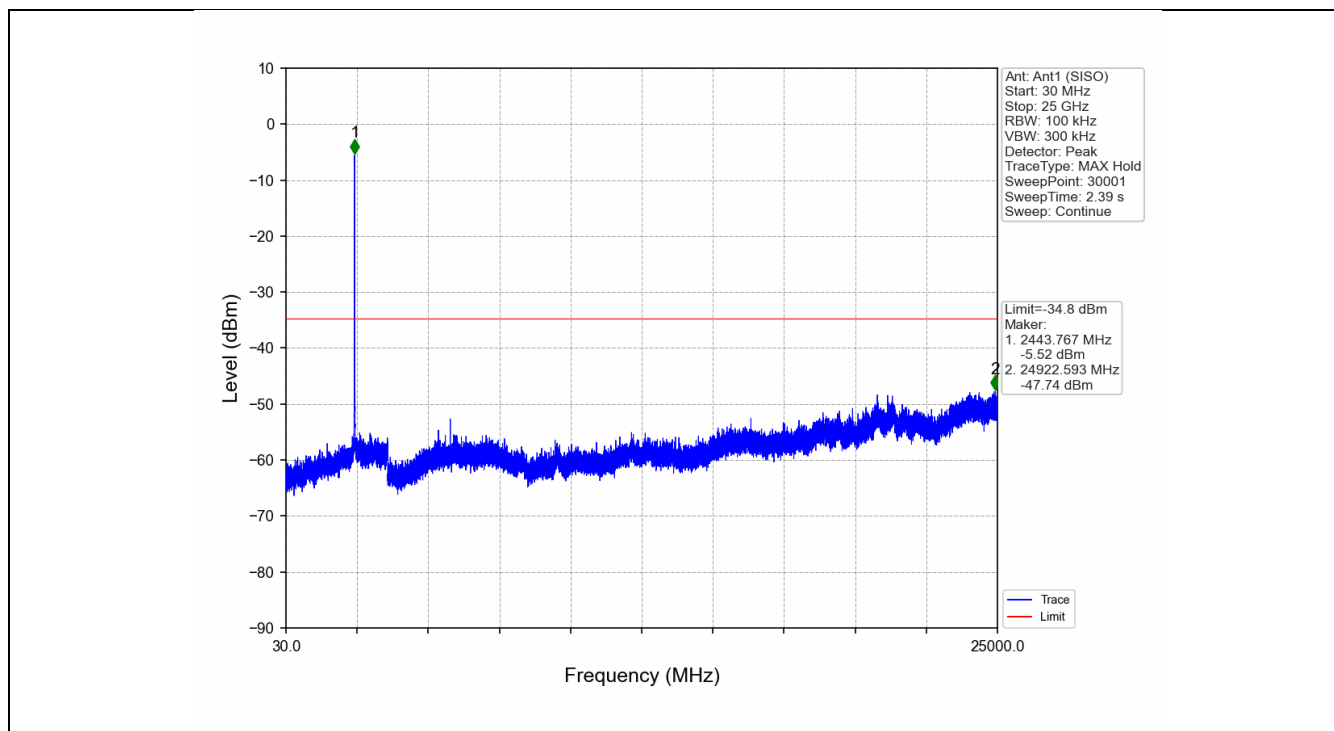
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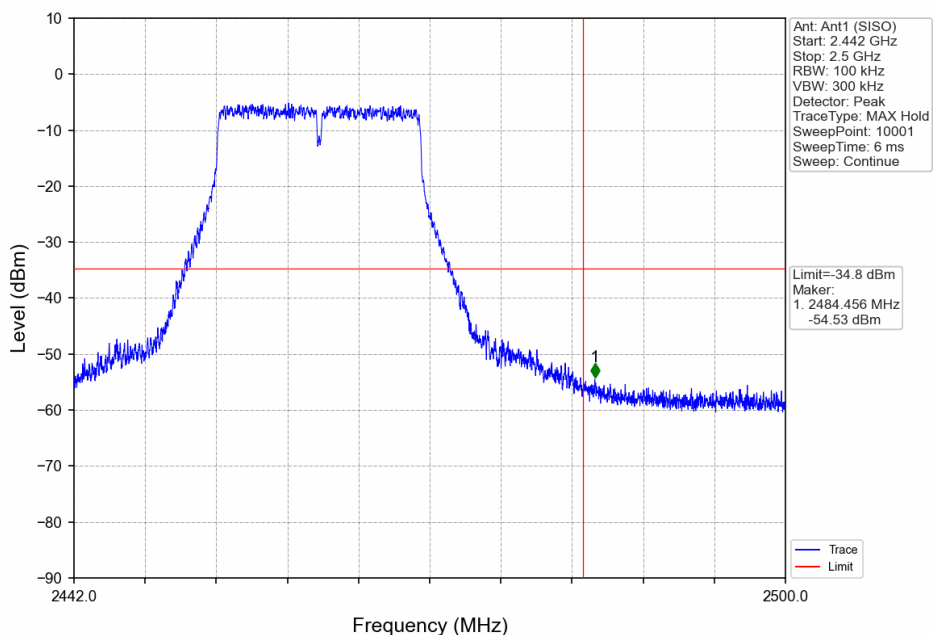
802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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802.11g HCH 2462MHz Ant1 (SISO) NTN

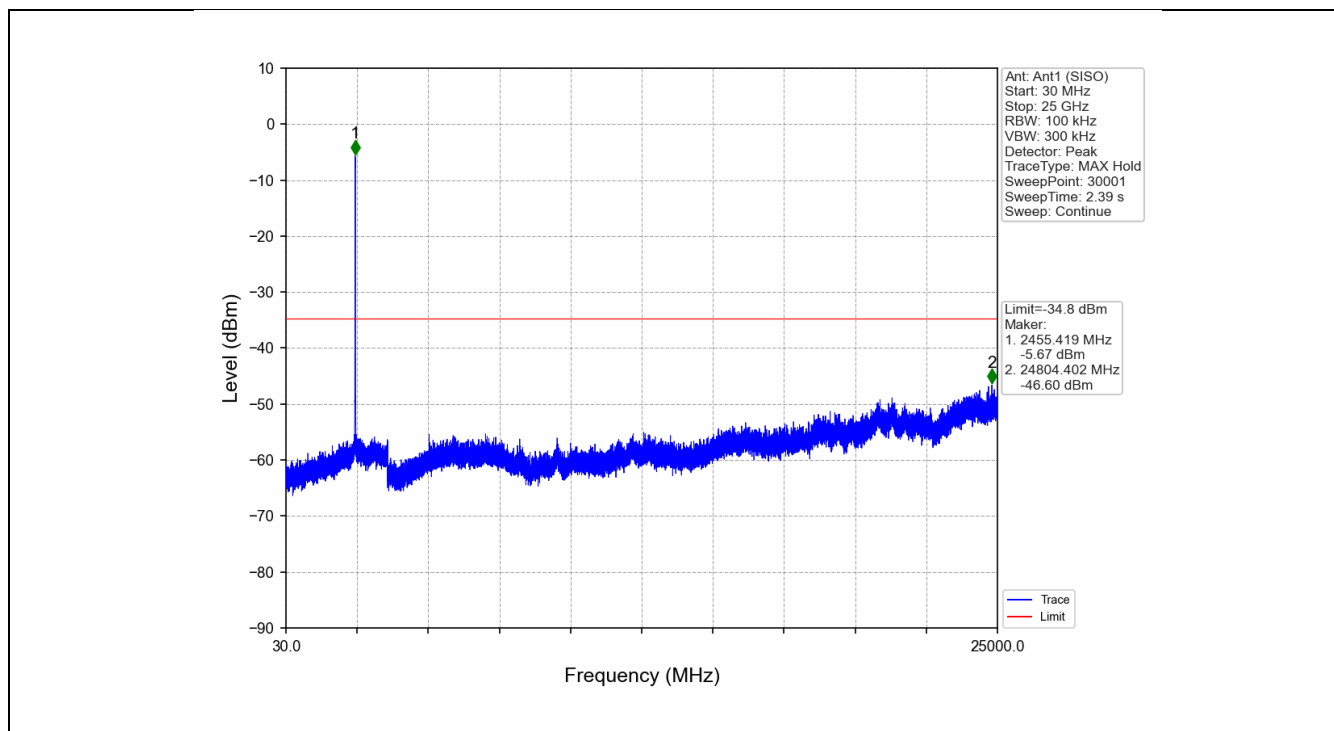


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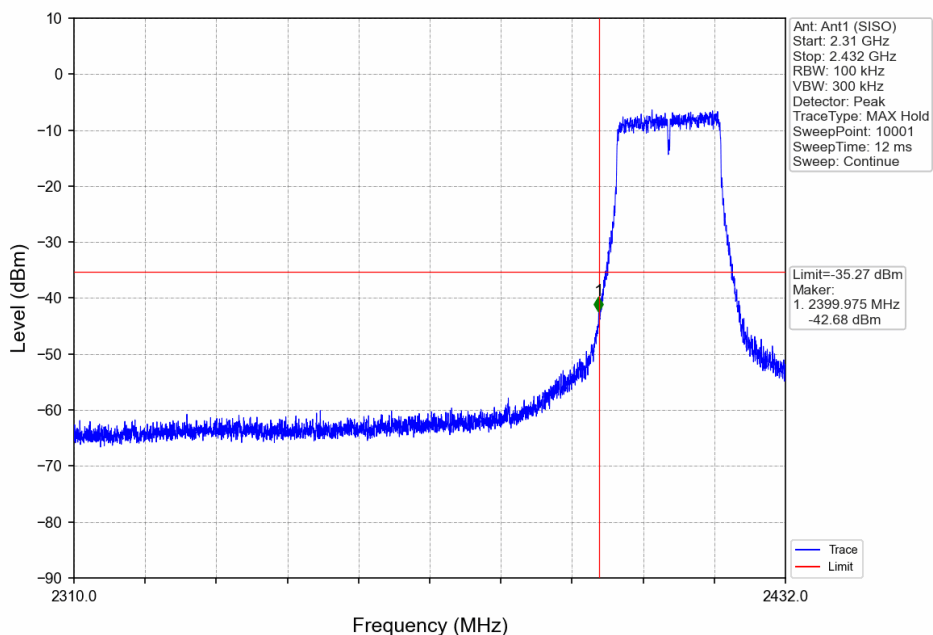
802.11n(HT20) LCH 2412MHz Ant1 (SISO) NTNV



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

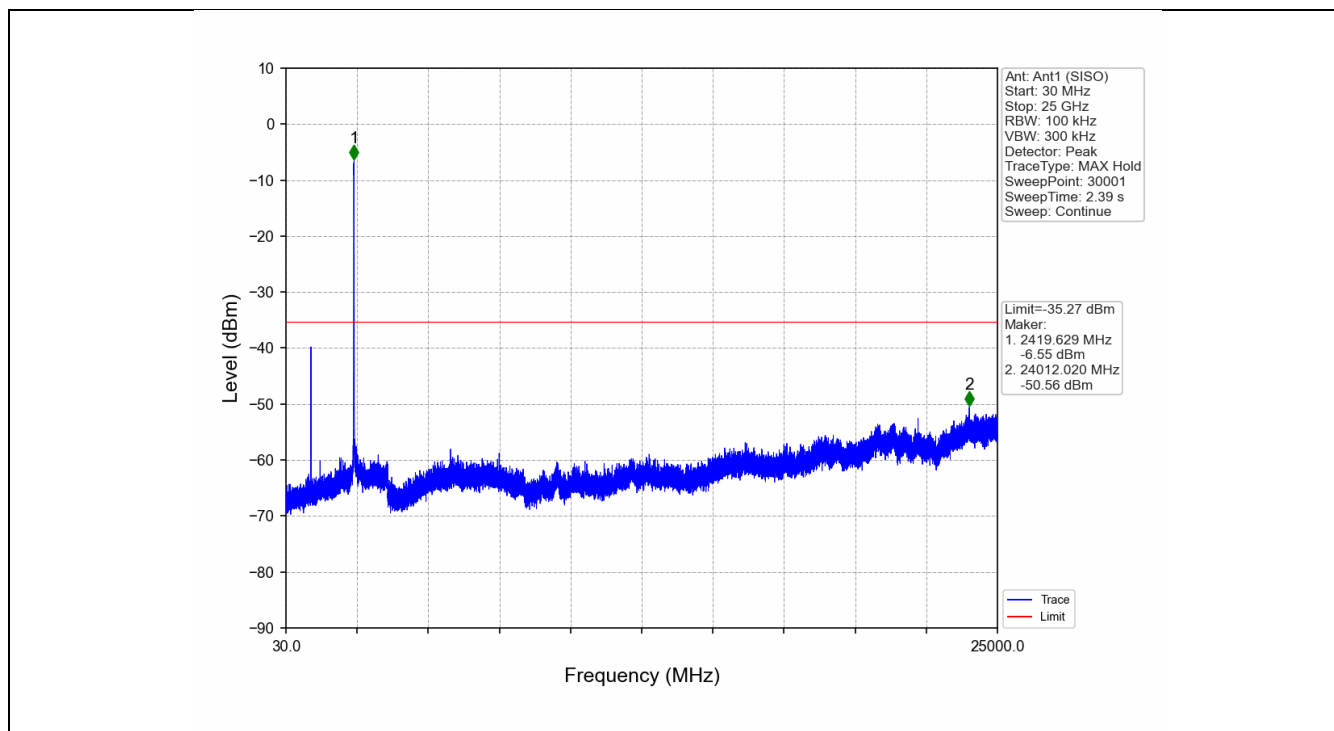


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802.11n(HT20) MCH 2437MHz Ant1 (SISO) NTNV

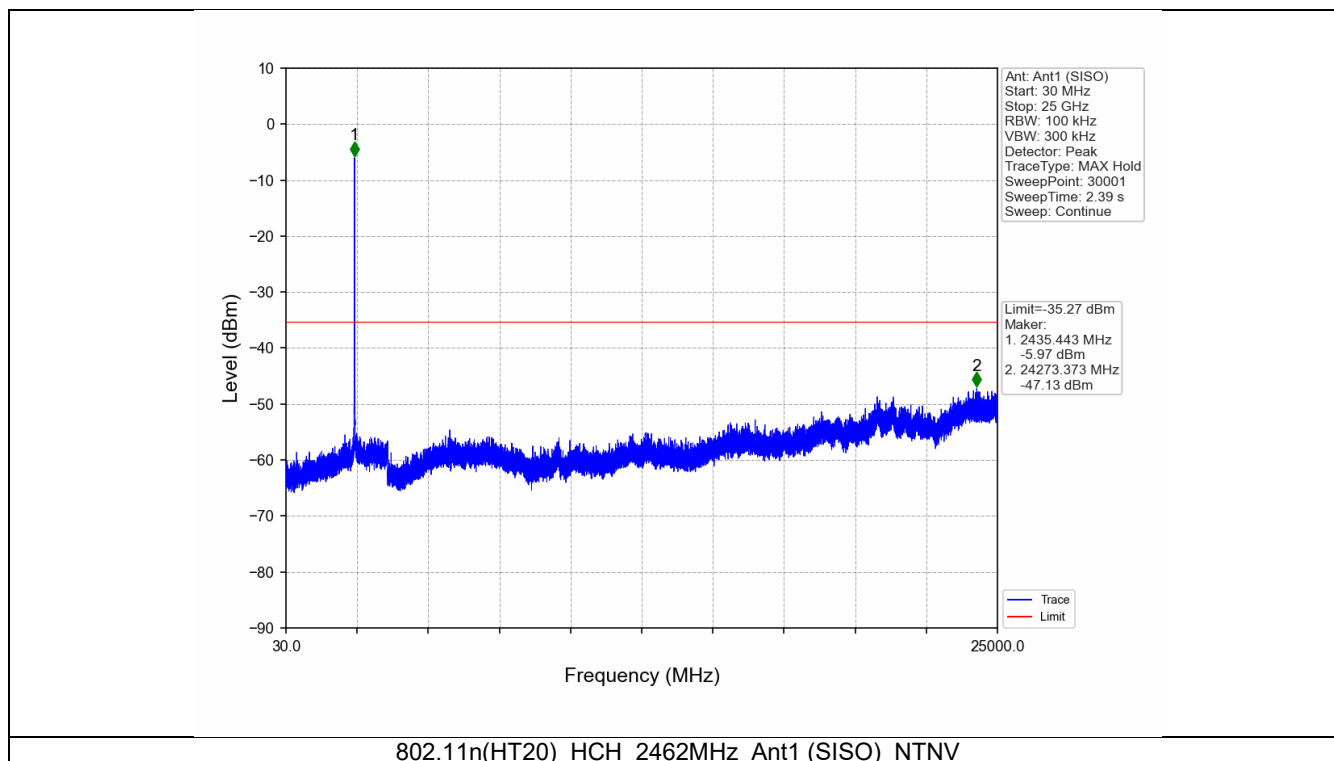


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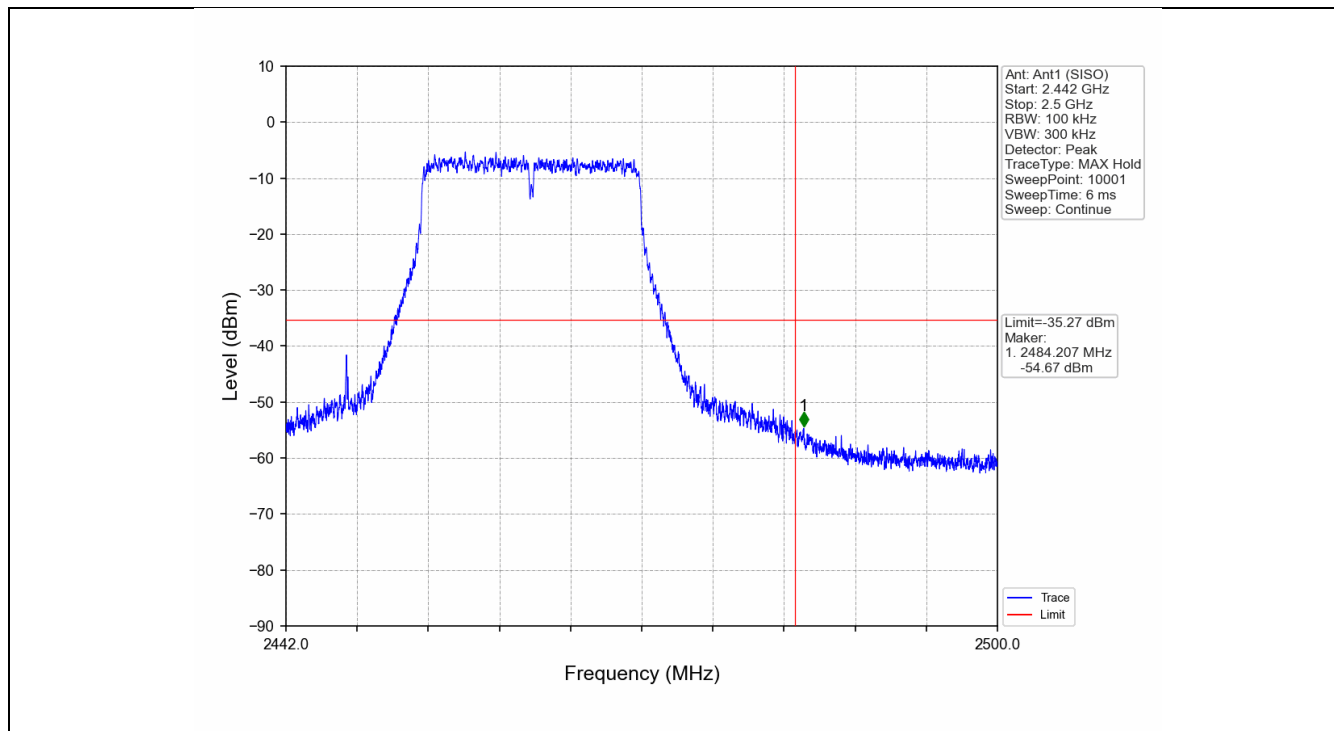
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802.11n(HT20) HCH 2462MHz Ant1 (SISO) NTNV

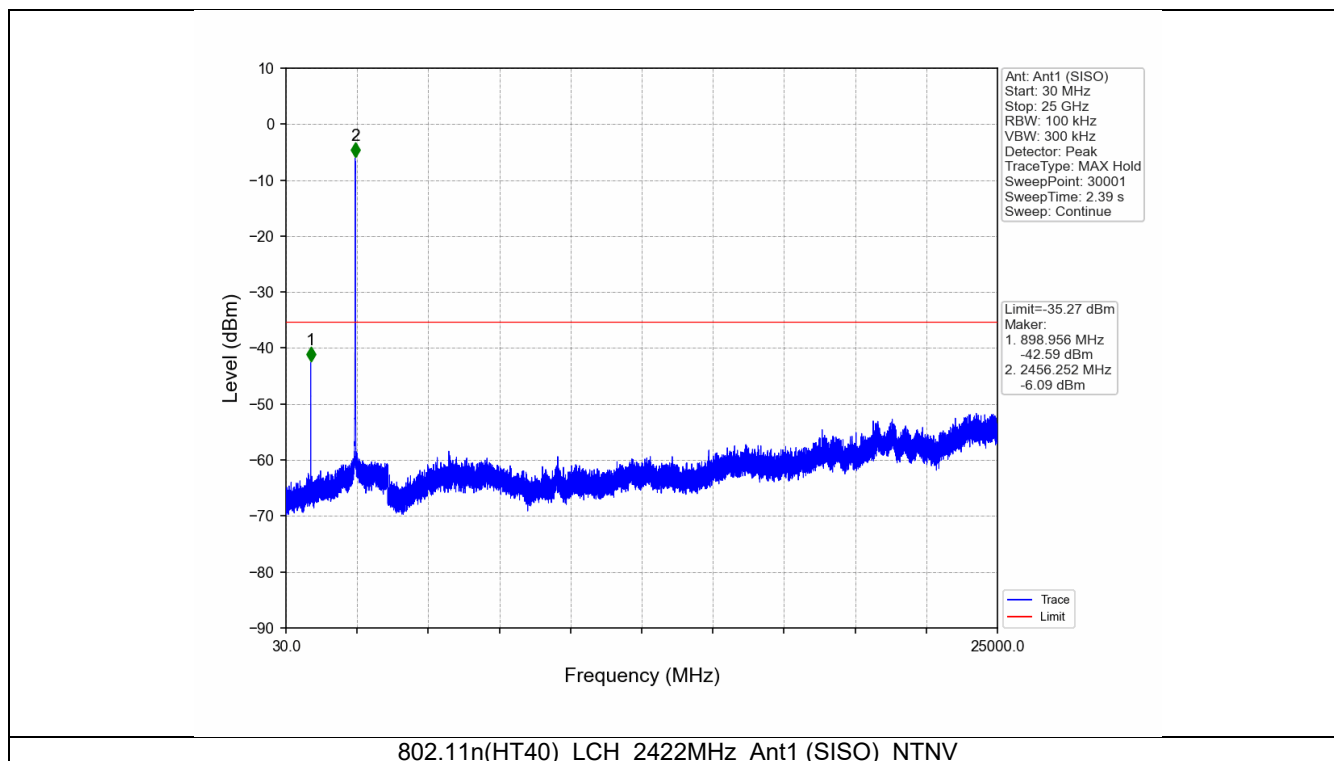


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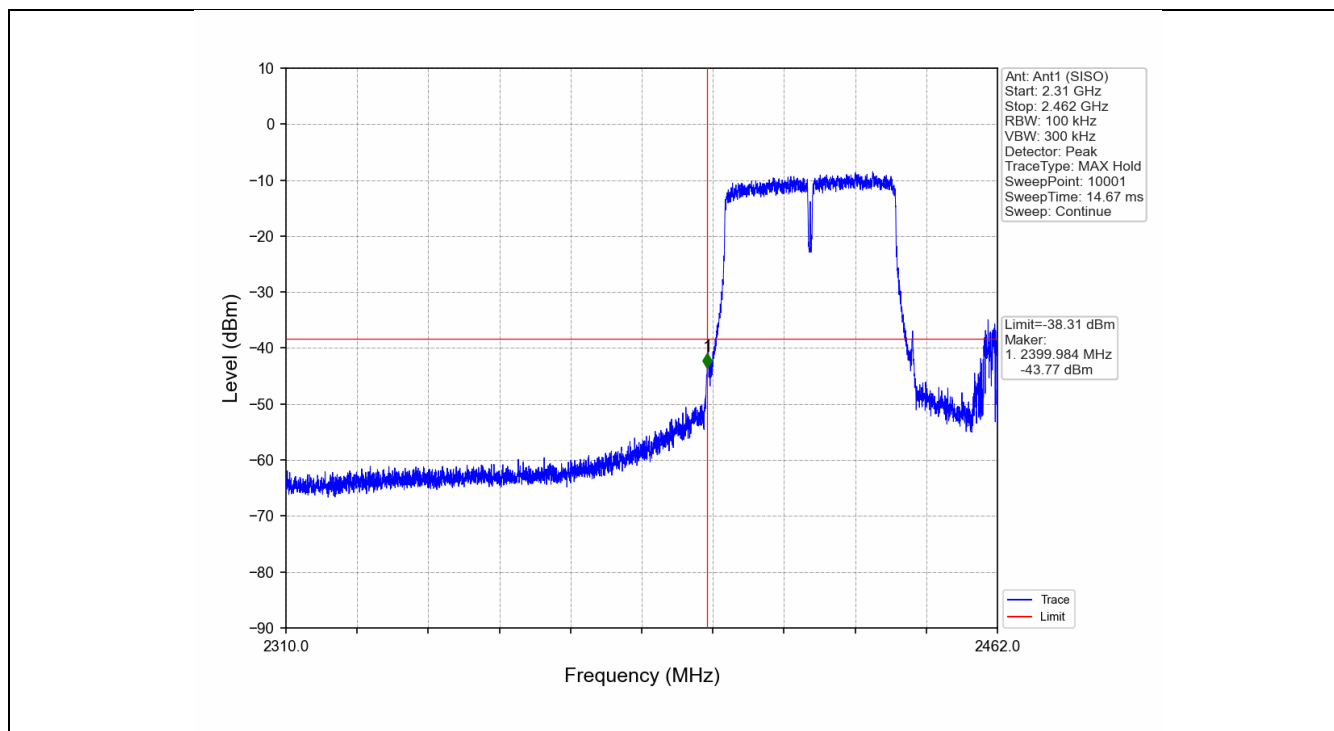


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802.11n(HT40) LCH 2422MHz Ant1 (SISO) NTNV

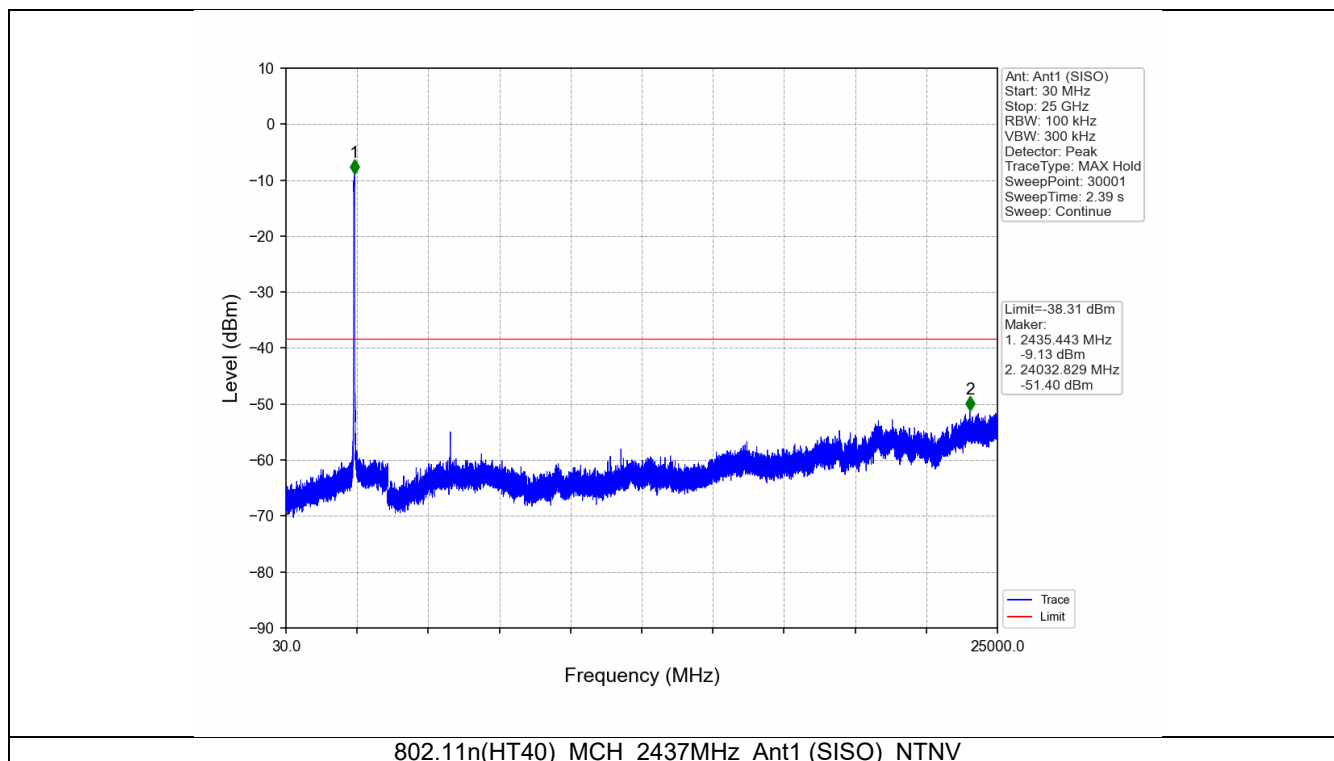


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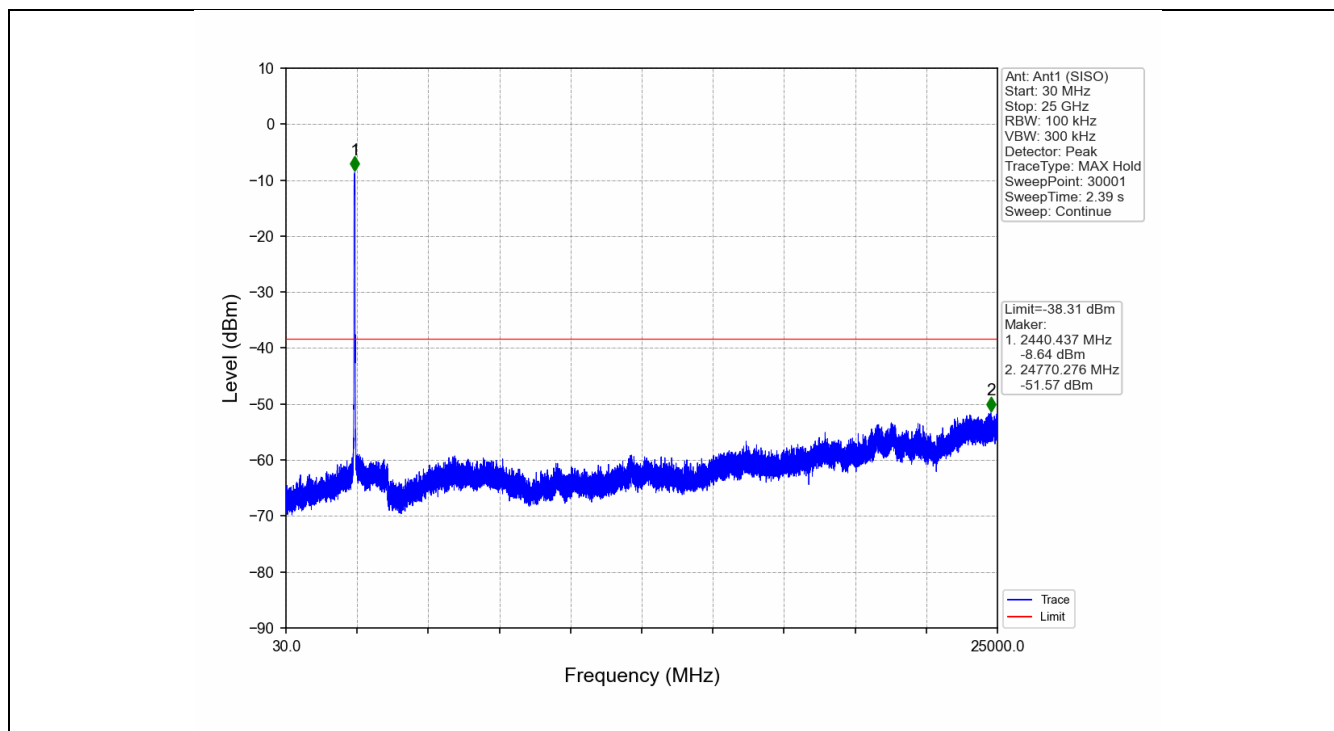
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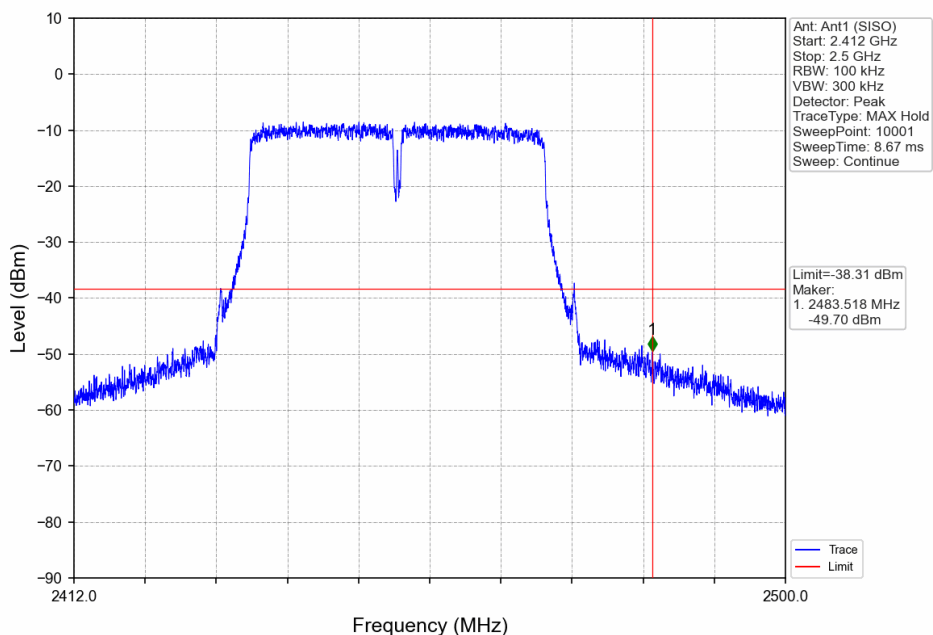
802.11n(HT40) HCH 2452MHz Ant1 (SISO) NTNV



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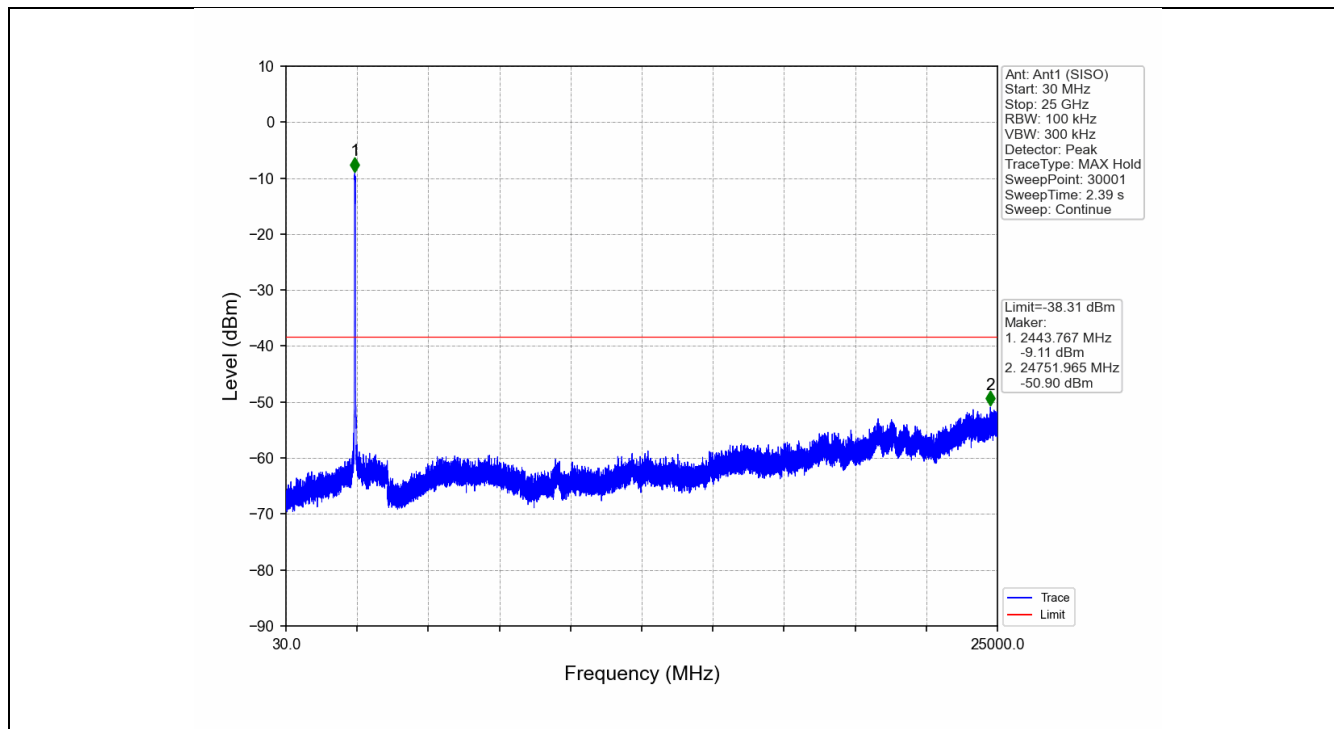
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