

## Appendix A for KSCR220200021001

## 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            | 8.607     | 8.707       | 98.85          | 0.05                              | 0.04                  |
|                |         | 2437            | 8.606     | 8.706       | 98.85          | 0.05                              | 0.04                  |
|                |         | 2462            | 8.607     | 8.707       | 98.85          | 0.05                              | 0.04                  |
| 802.11g        | SISO    | 2412            | 1.428     | 1.529       | 93.39          | 0.30                              | 0.00                  |
|                |         | 2437            | 1.428     | 1.529       | 93.39          | 0.30                              | 0.03                  |
|                |         | 2462            | 1.428     | 1.530       | 93.33          | 0.30                              | 0.13                  |
| 802.11n (HT20) | SISO    | 2412            | 1.336     | 1.436       | 93.04          | 0.31                              | 0.00                  |
|                |         | 2437            | 1.336     | 1.437       | 92.97          | 0.32                              | 0.03                  |
|                |         | 2462            | 1.336     | 1.437       | 92.97          | 0.32                              | 0.00                  |

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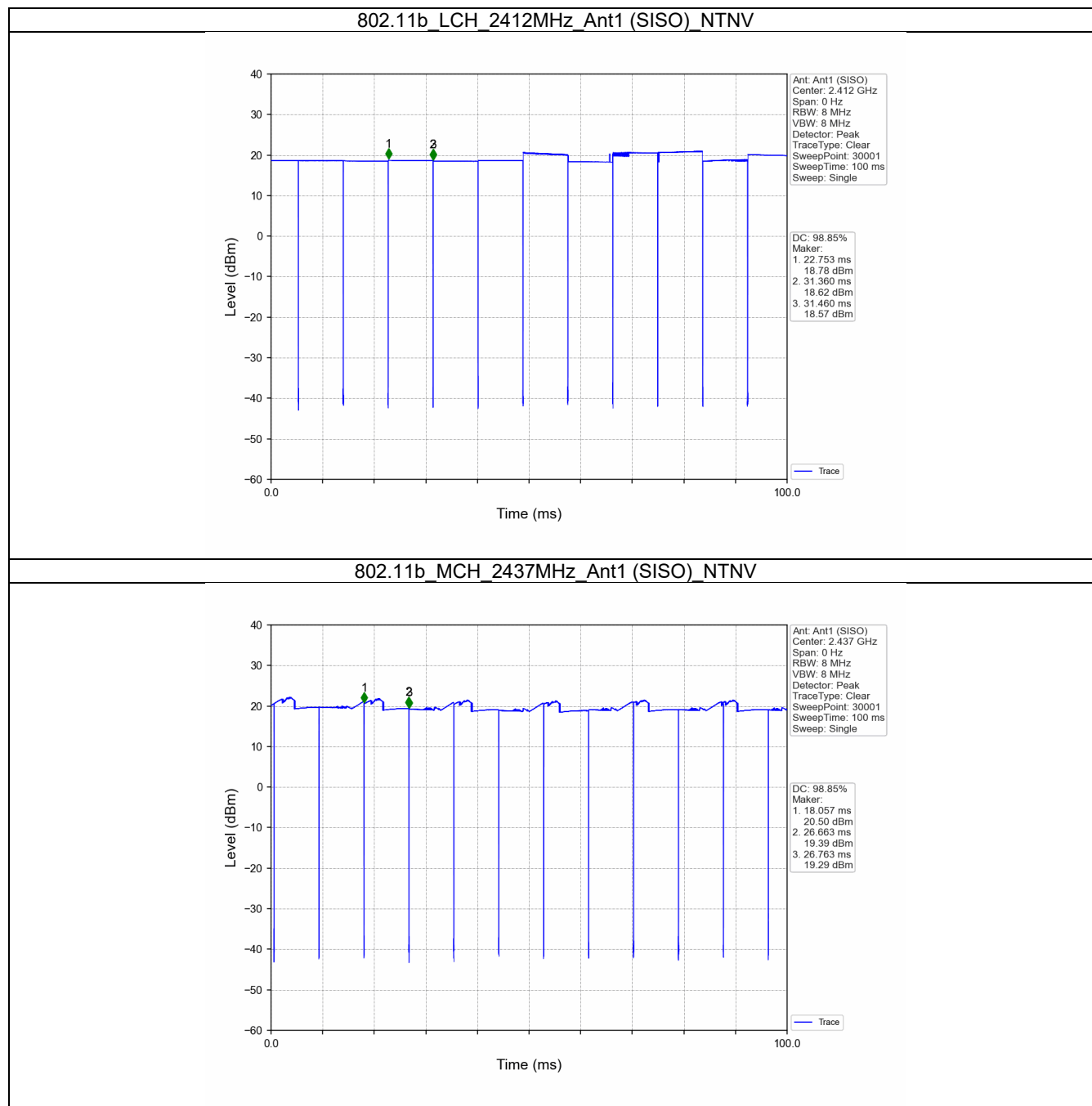
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## 1.1.2 Test Graph



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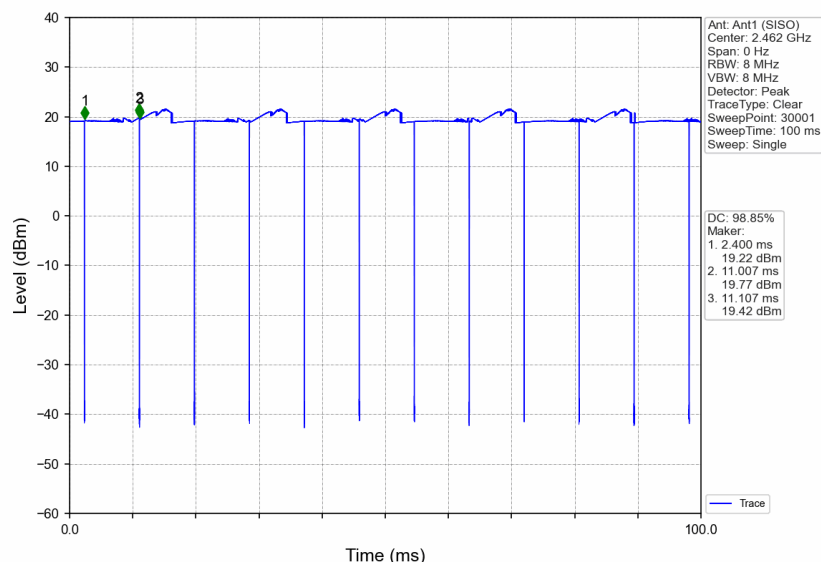
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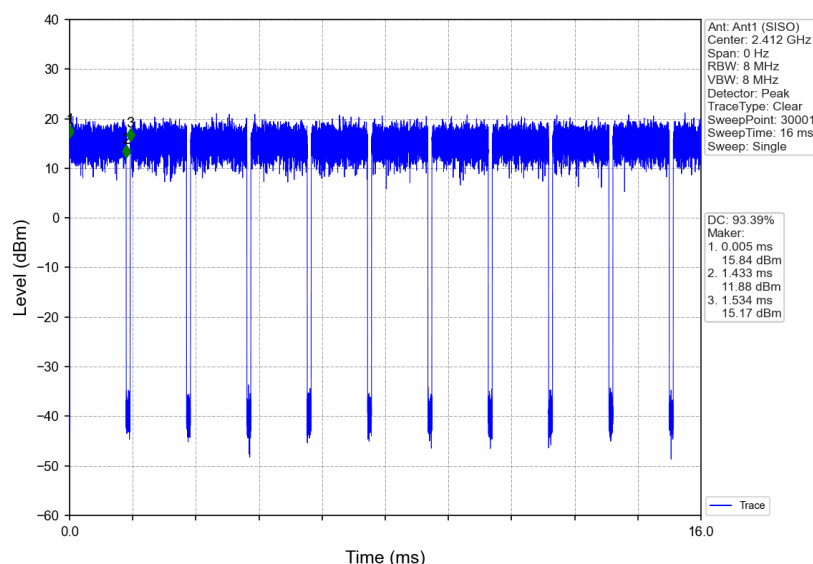
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## 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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



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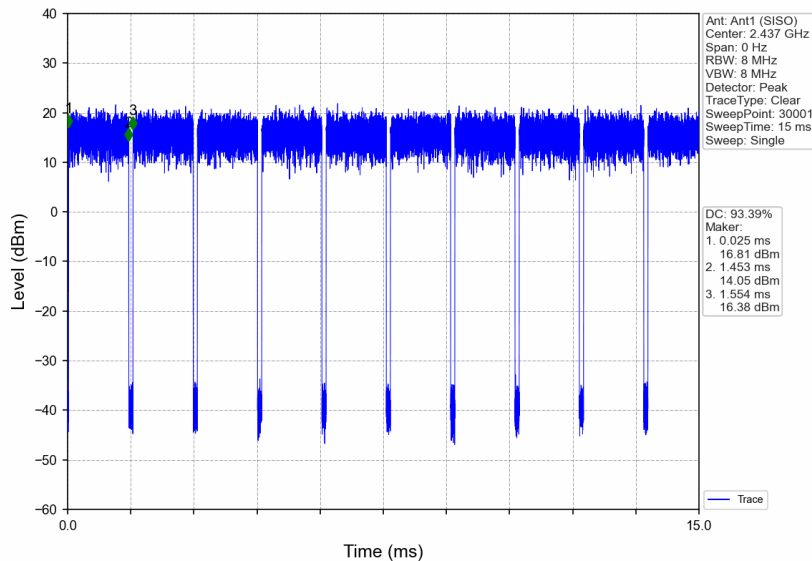
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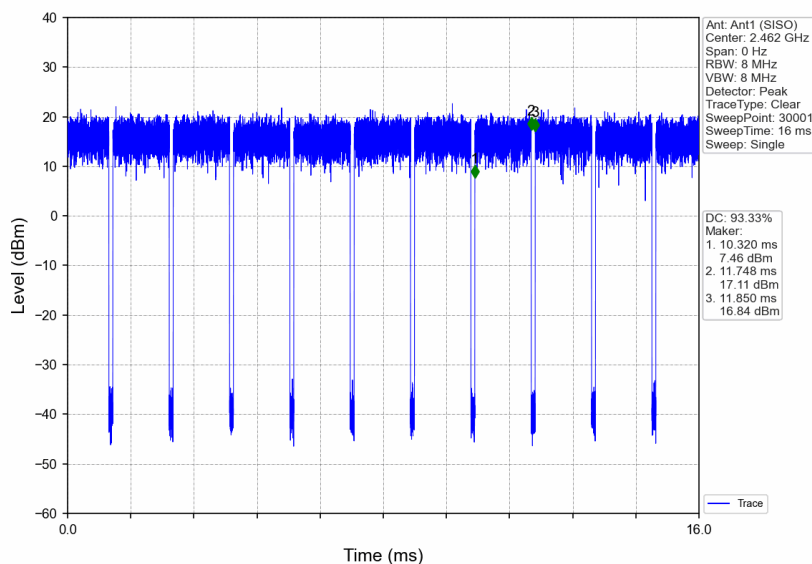
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## 802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



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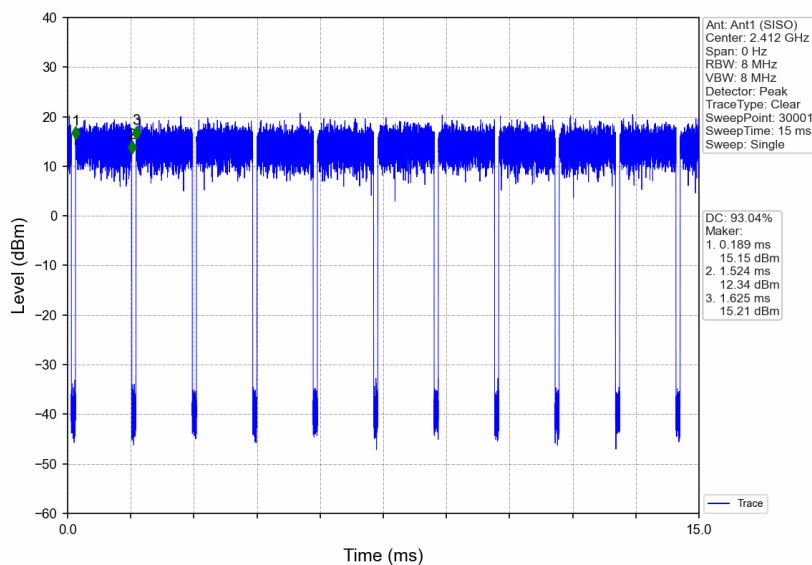
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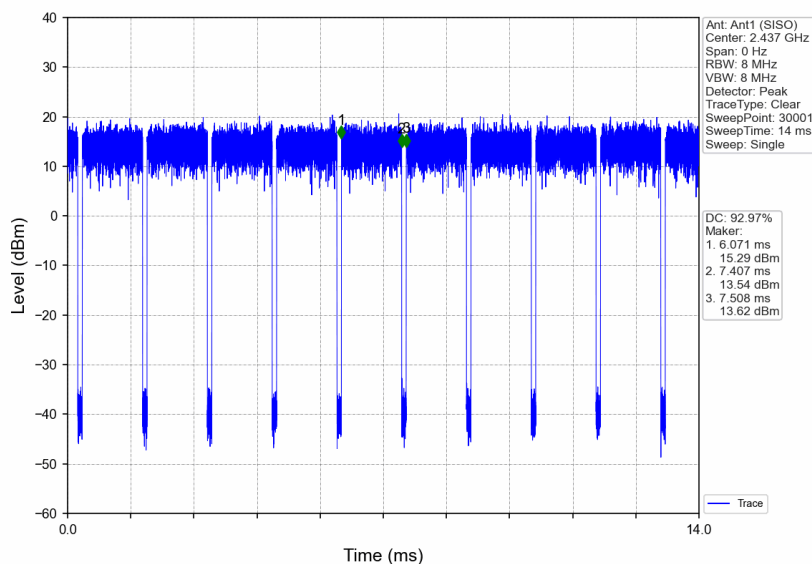
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## 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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



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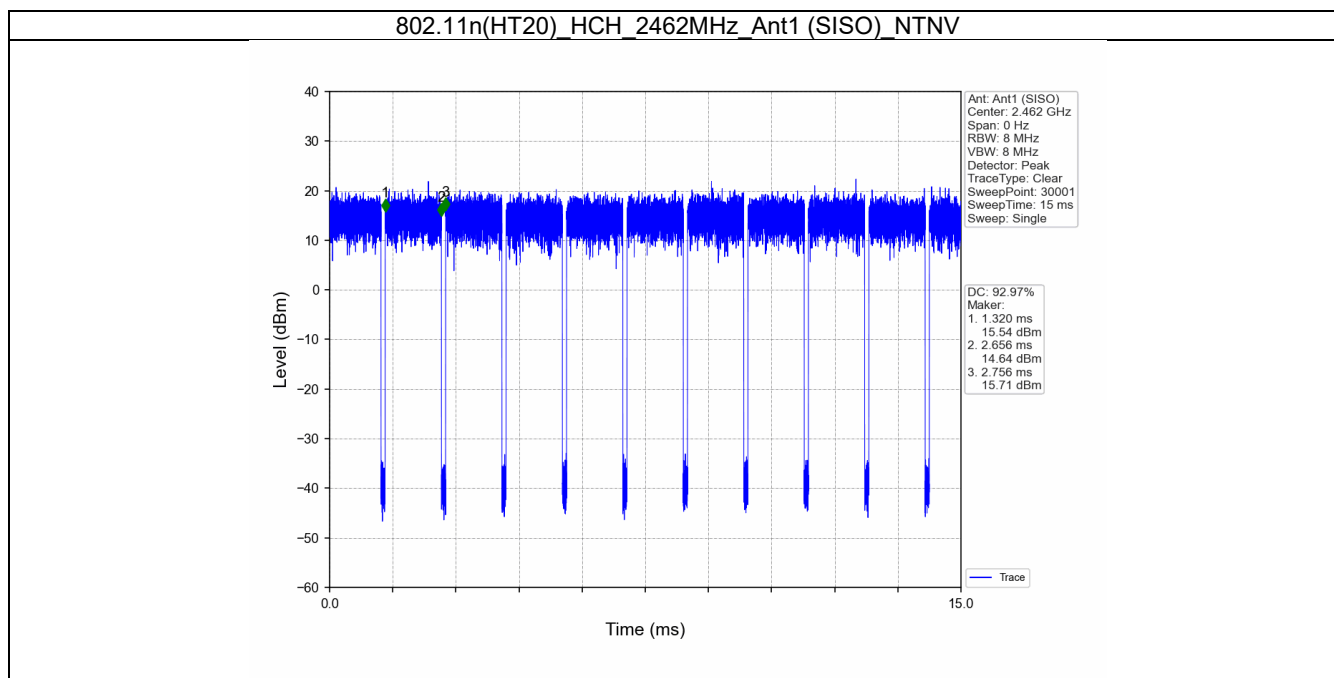
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## 2. Bandwidth

### 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   | 13.946                       | Pass    |
|                |         | 2437            | 1   | 13.978                       | Pass    |
|                |         | 2462            | 1   | 13.960                       | Pass    |
| 802.11g        | SISO    | 2412            | 1   | 17.968                       | Pass    |
|                |         | 2437            | 1   | 17.950                       | Pass    |
|                |         | 2462            | 1   | 17.918                       | Pass    |
| 802.11n (HT20) | SISO    | 2412            | 1   | 18.570                       | Pass    |
|                |         | 2437            | 1   | 18.559                       | Pass    |
|                |         | 2462            | 1   | 18.609                       | Pass    |



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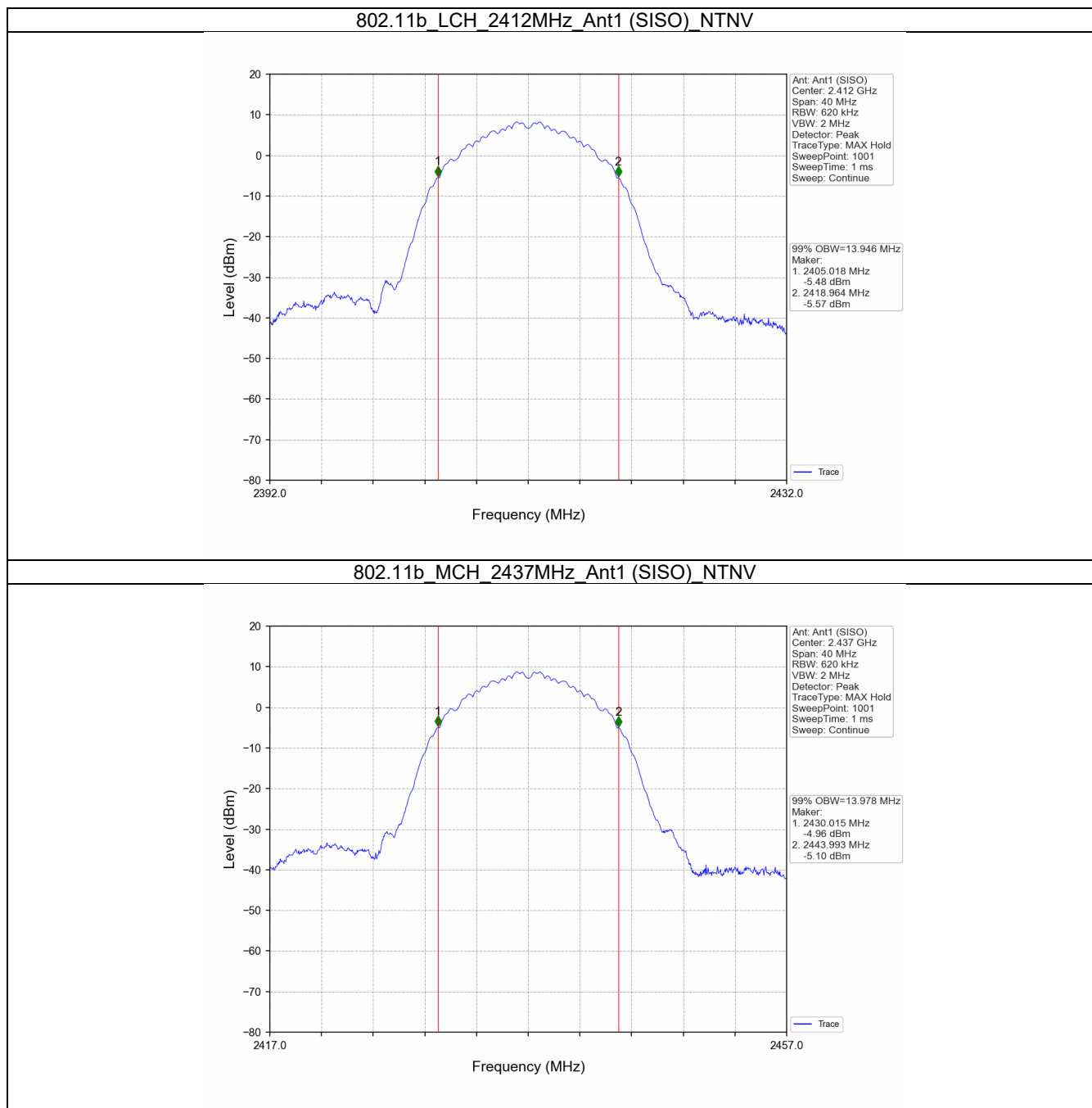
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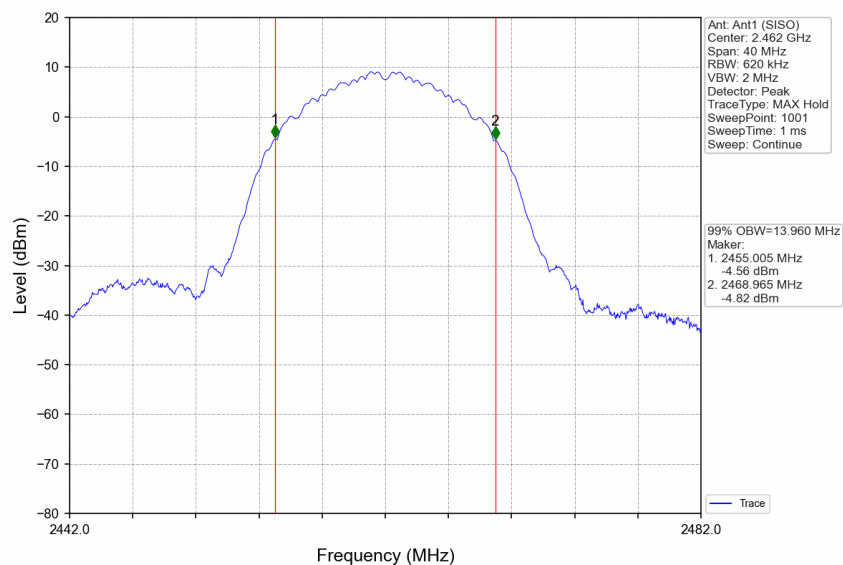
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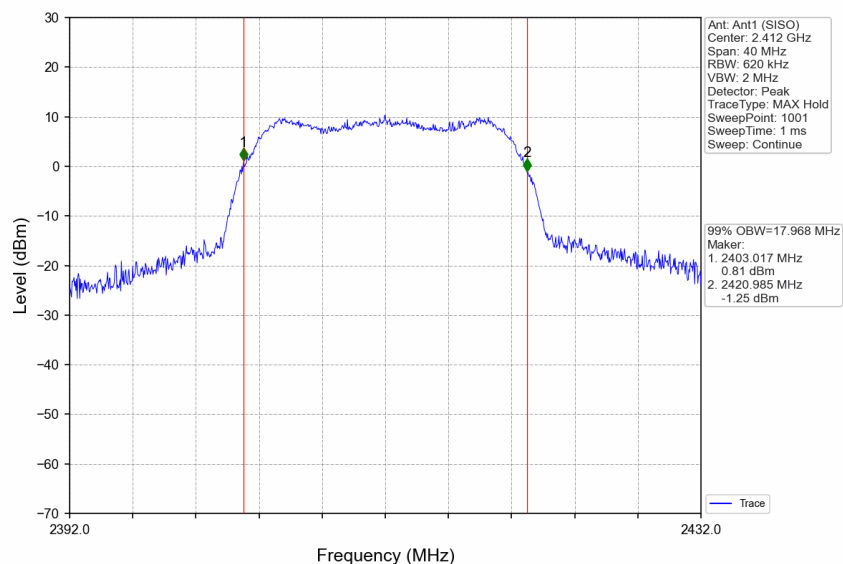
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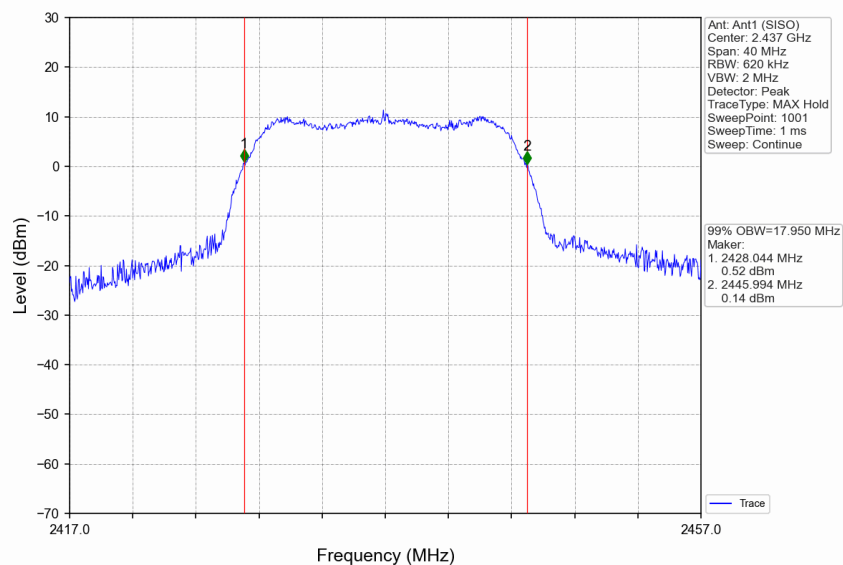
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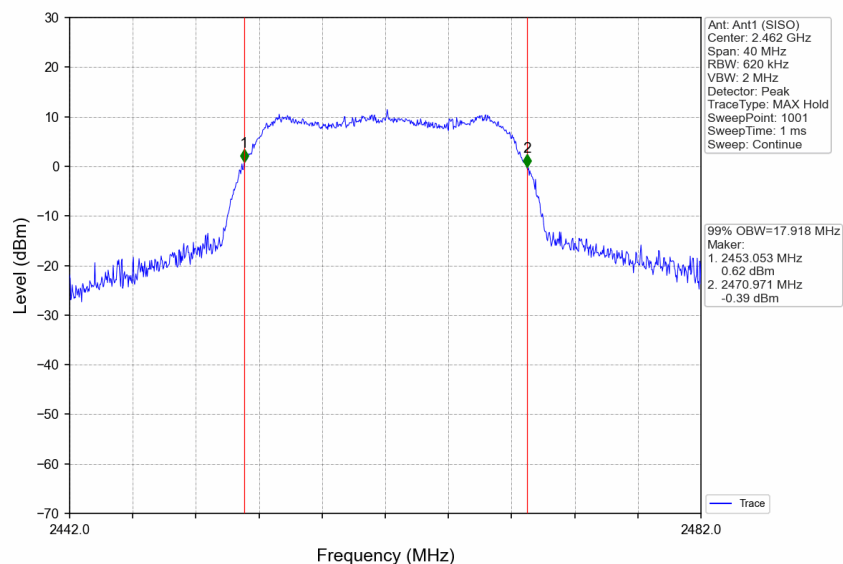
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## 802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



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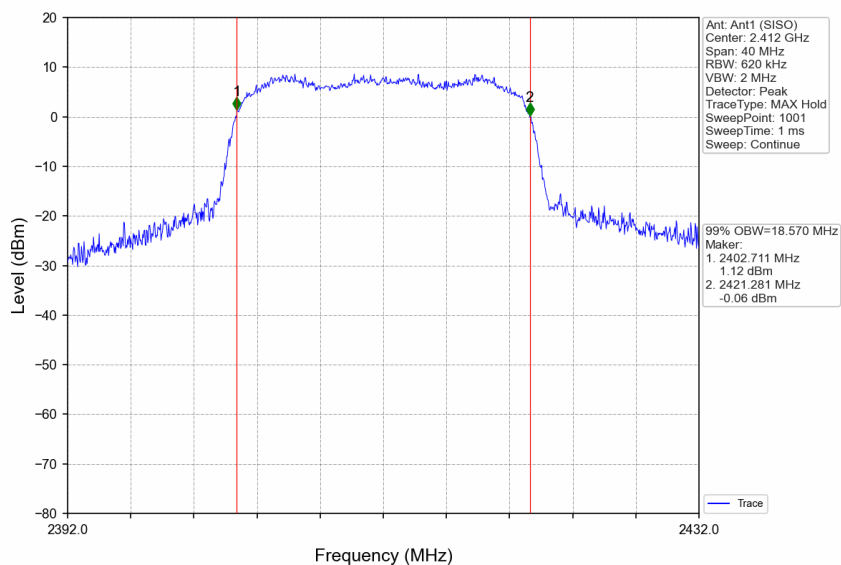
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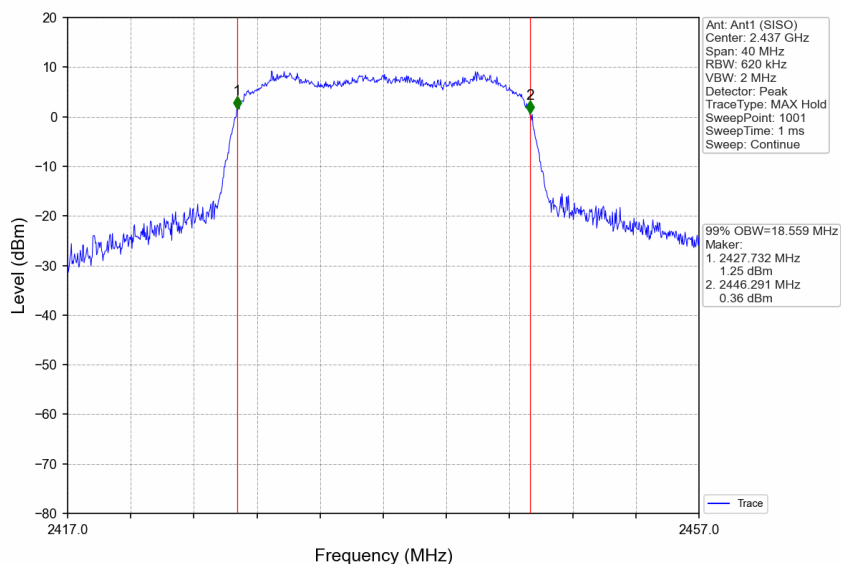
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## 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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



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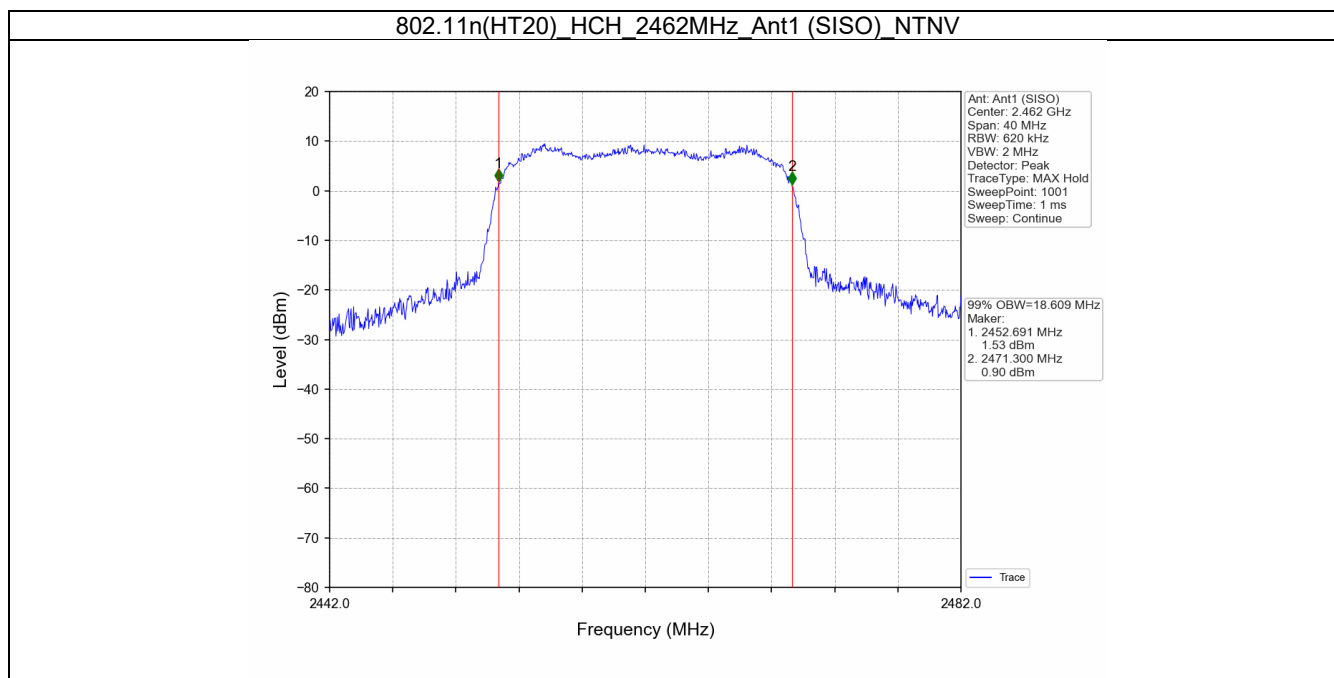
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## 2.2 6dB BW

### 2.2.1 Test Result

| Mode           | TX Type | Frequency (MHz) | Ant | 6dB Bandwidth (MHz) |            | Verdict |
|----------------|---------|-----------------|-----|---------------------|------------|---------|
|                |         |                 |     | Result              | Limit      |         |
| 802.11b        | SISO    | 2412            | 1   | 9.070               | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 8.595               | $\geq 0.5$ | Pass    |
|                |         | 2462            | 1   | 8.585               | $\geq 0.5$ | Pass    |
| 802.11g        | SISO    | 2412            | 1   | 15.813              | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 15.824              | $\geq 0.5$ | Pass    |
|                |         | 2462            | 1   | 15.782              | $\geq 0.5$ | Pass    |
| 802.11n (HT20) | SISO    | 2412            | 1   | 16.933              | $\geq 0.5$ | Pass    |
|                |         | 2437            | 1   | 17.539              | $\geq 0.5$ | Pass    |
|                |         | 2462            | 1   | 17.299              | $\geq 0.5$ | Pass    |



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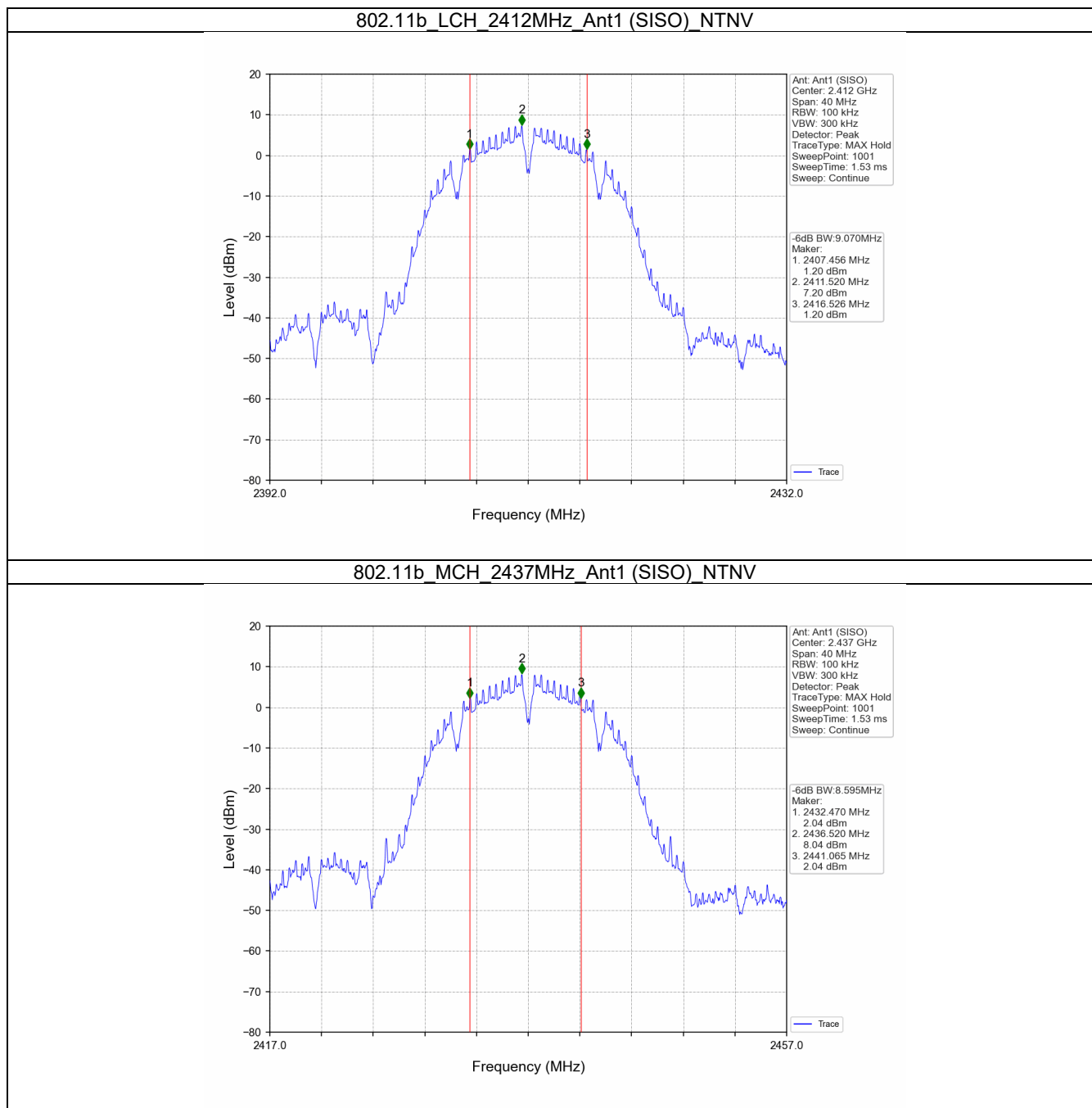
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## 2.2.2 Test Graph



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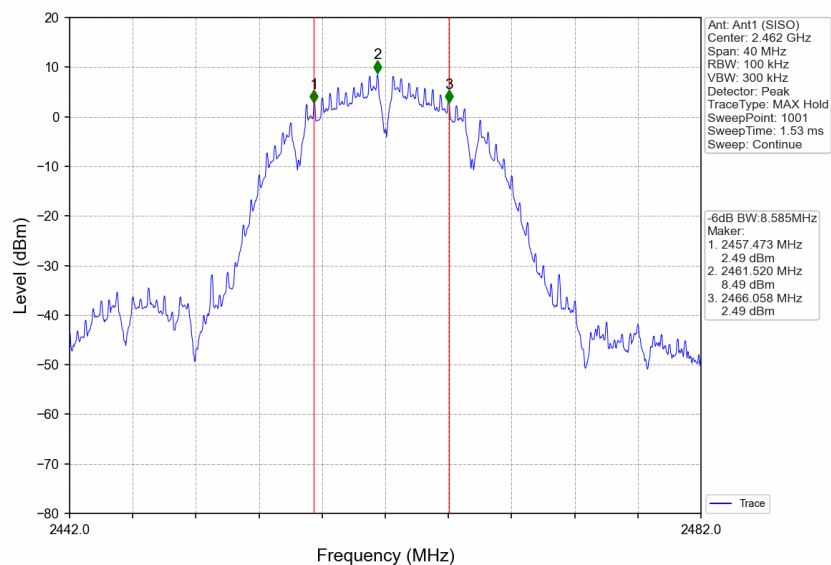
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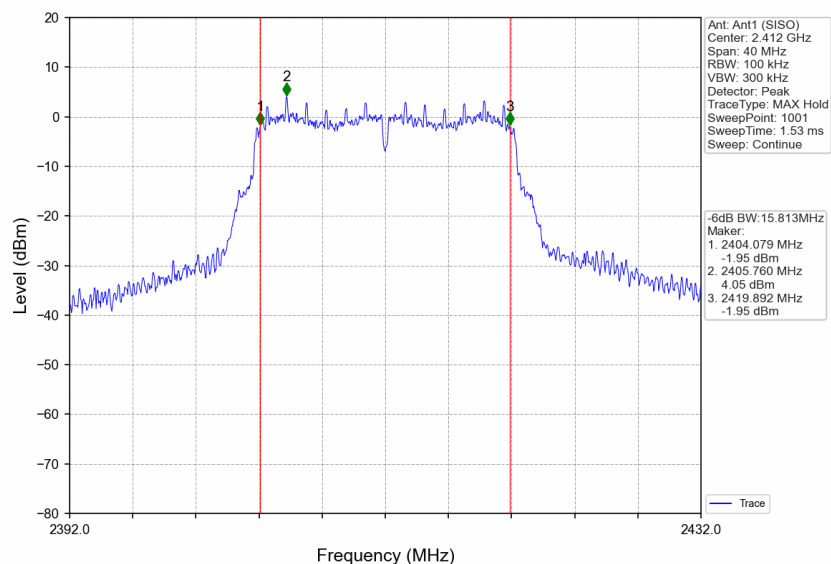
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## 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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



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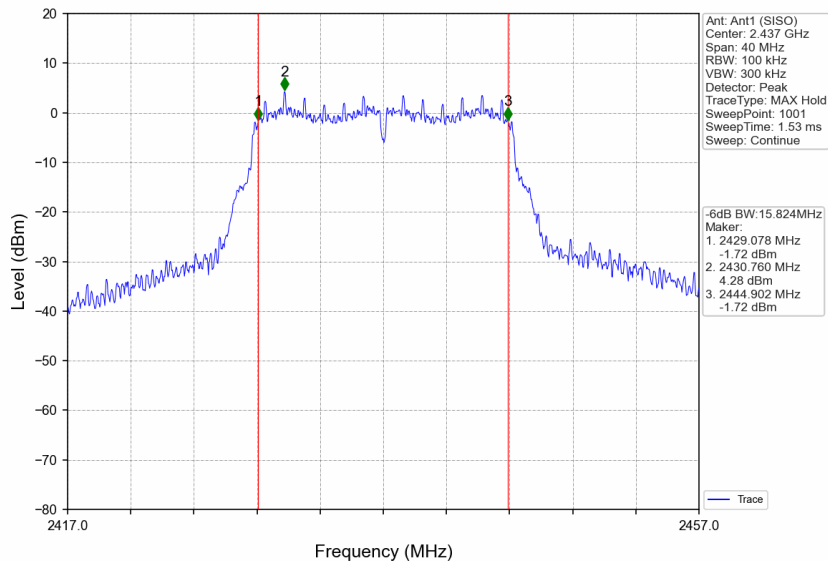
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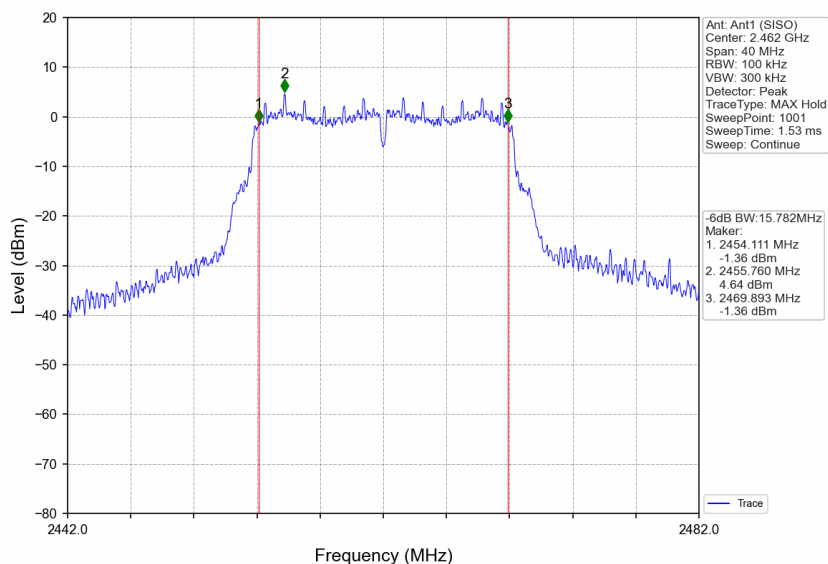
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## 802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



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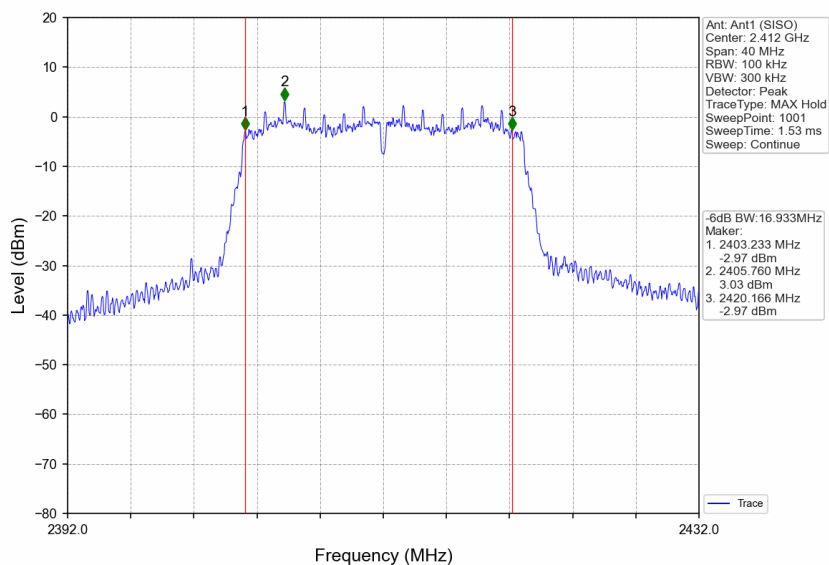
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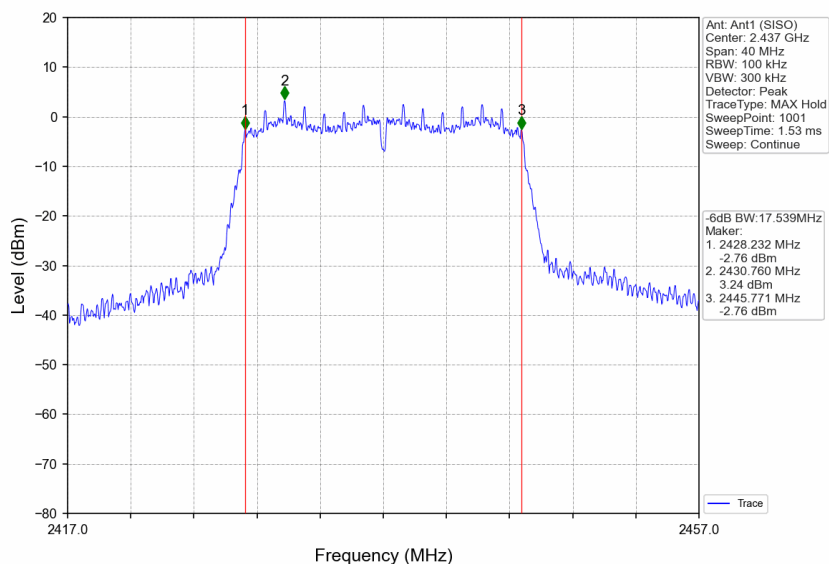
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## 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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



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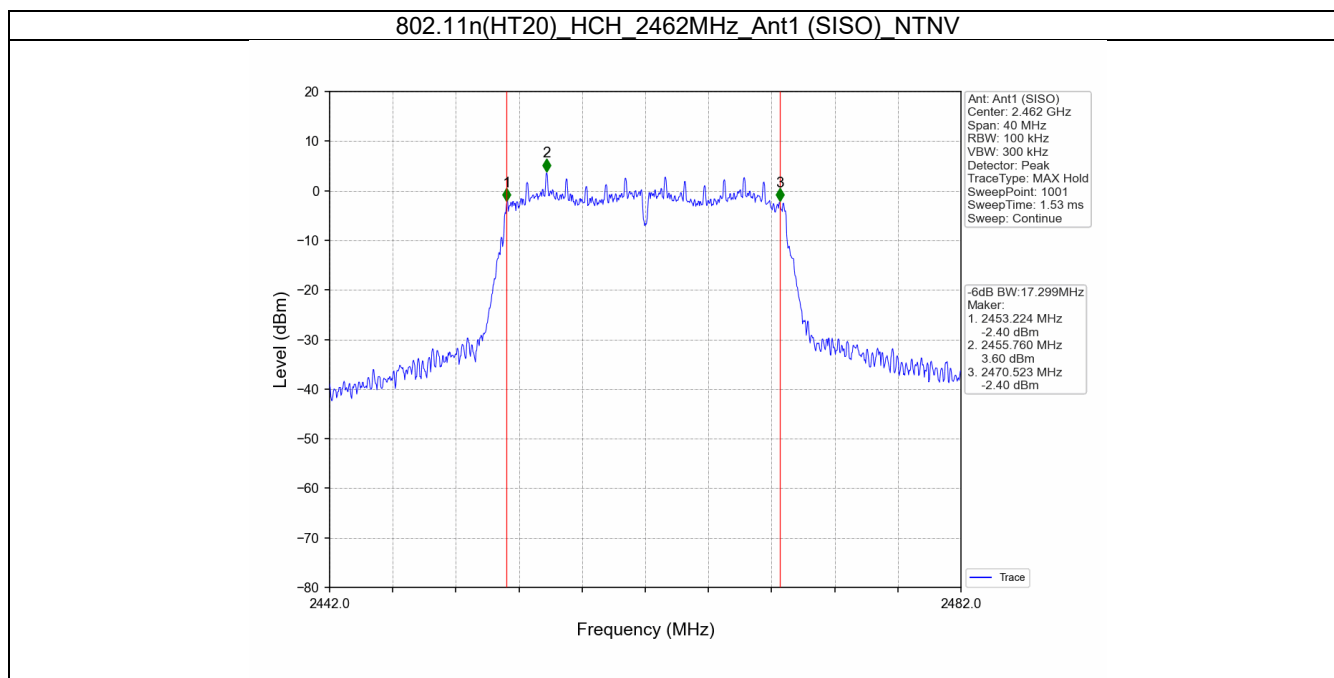
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### 3. Maximum Conducted Output Power

#### 3.1 Power

##### 3.1.1 Test Result

| Mode           | TX Type | Frequency (MHz) | Maximum Average Conducted Output Power (dBm) |       | Verdict |
|----------------|---------|-----------------|----------------------------------------------|-------|---------|
|                |         |                 | Ant1                                         | Limit |         |
| 802.11b        | SISO    | 2412            | 15.59                                        | <=30  | Pass    |
|                |         | 2437            | 16.08                                        | <=30  | Pass    |
|                |         | 2462            | 16.23                                        | <=30  | Pass    |
| 802.11g        | SISO    | 2412            | 14.29                                        | <=30  | Pass    |
|                |         | 2437            | 14.61                                        | <=30  | Pass    |
|                |         | 2462            | 14.83                                        | <=30  | Pass    |
| 802.11n (HT20) | SISO    | 2412            | 13.25                                        | <=30  | Pass    |
|                |         | 2437            | 13.58                                        | <=30  | Pass    |
|                |         | 2462            | 13.86                                        | <=30  | Pass    |

Note1: Antenna Gain: Ant1: 4.90dBi;



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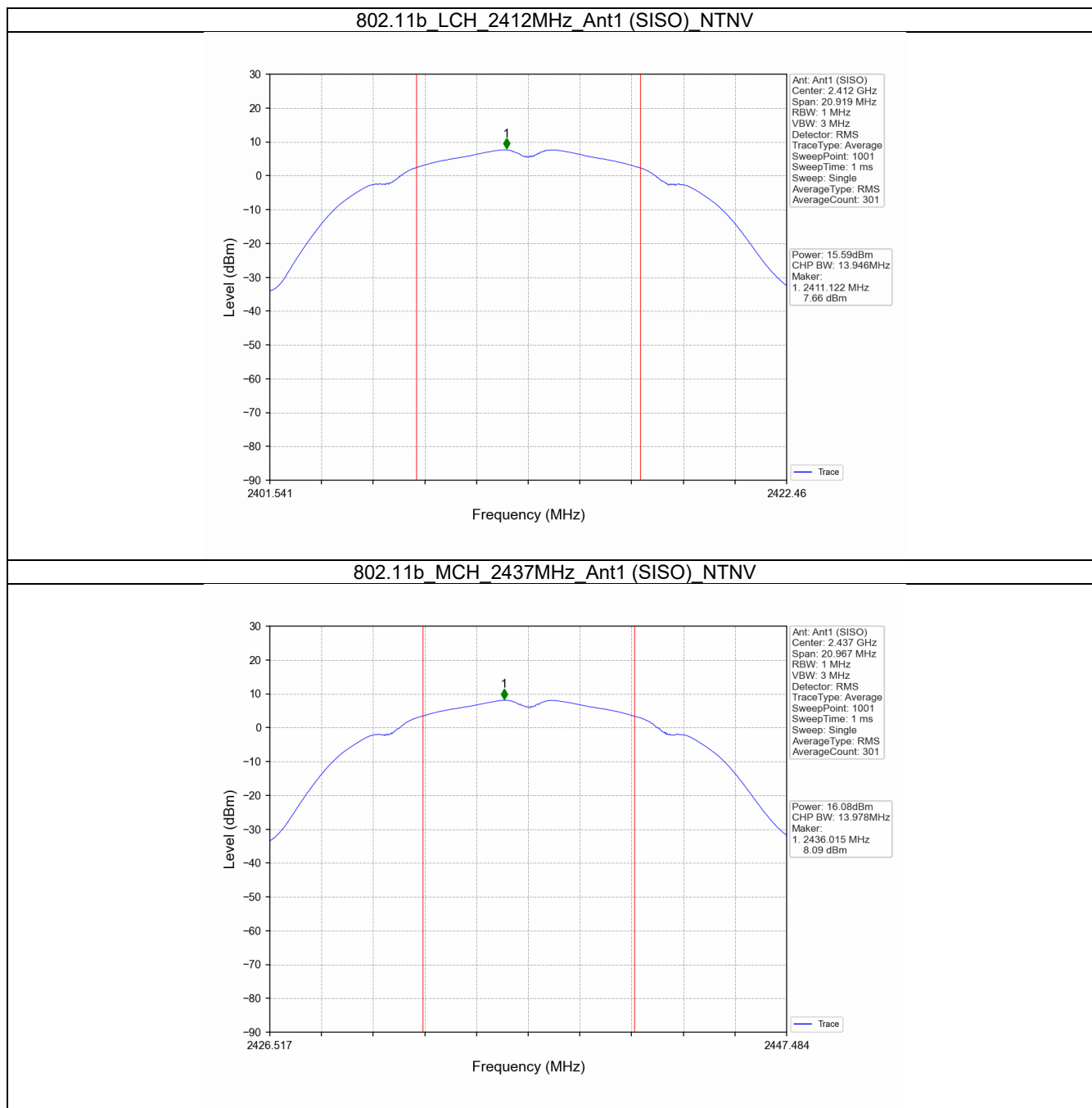
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## 3.1.2 Test Graph



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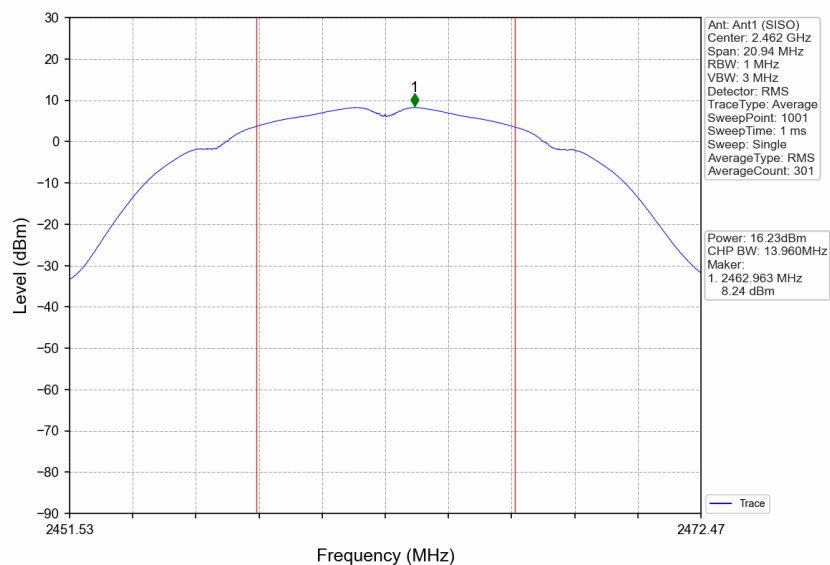
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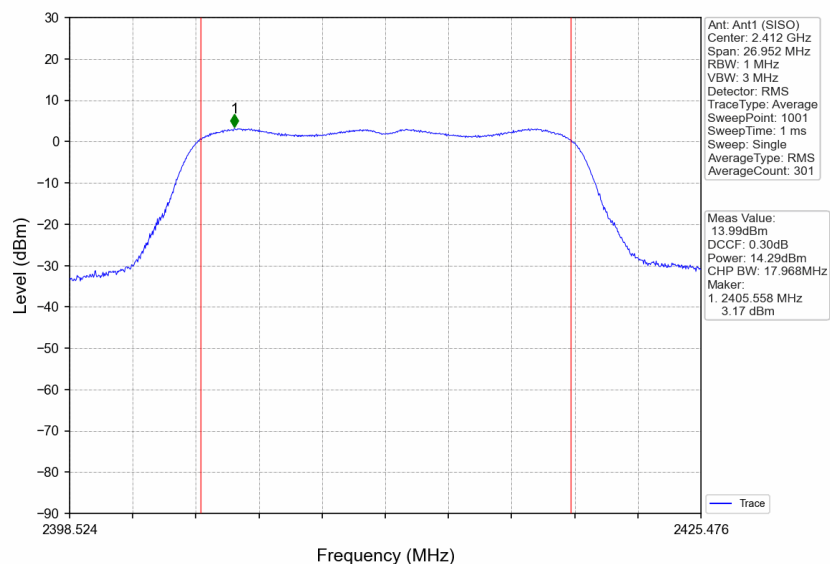
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## 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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



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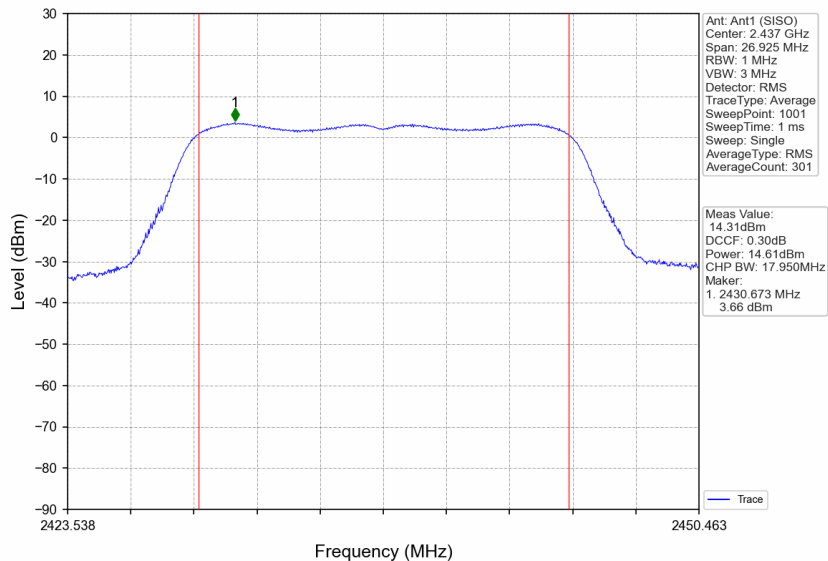
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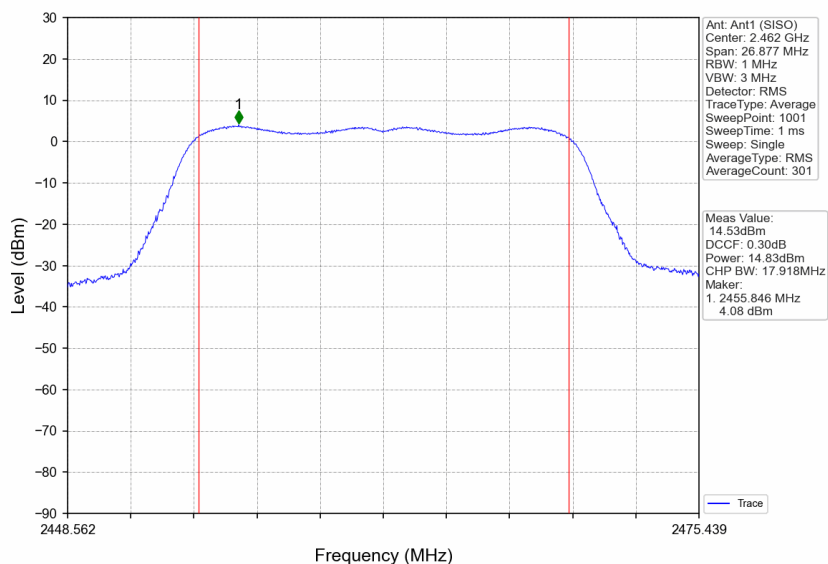
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## 802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



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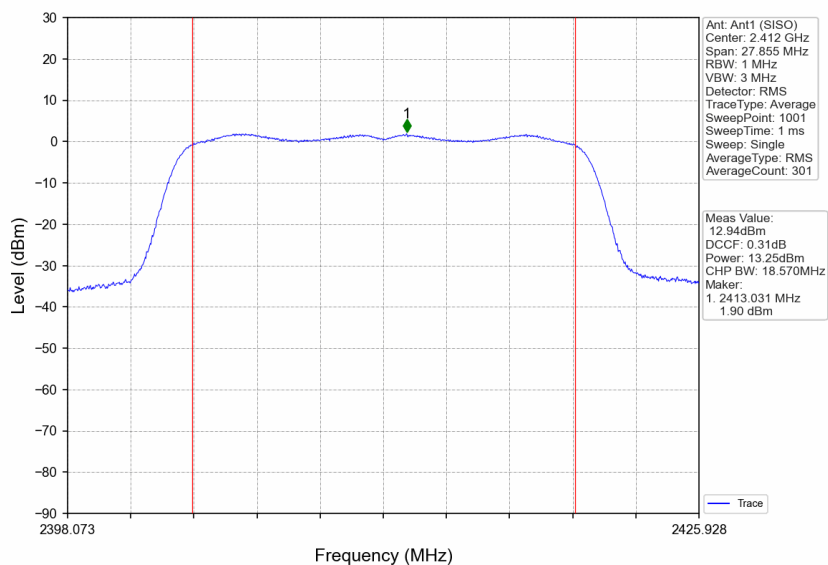
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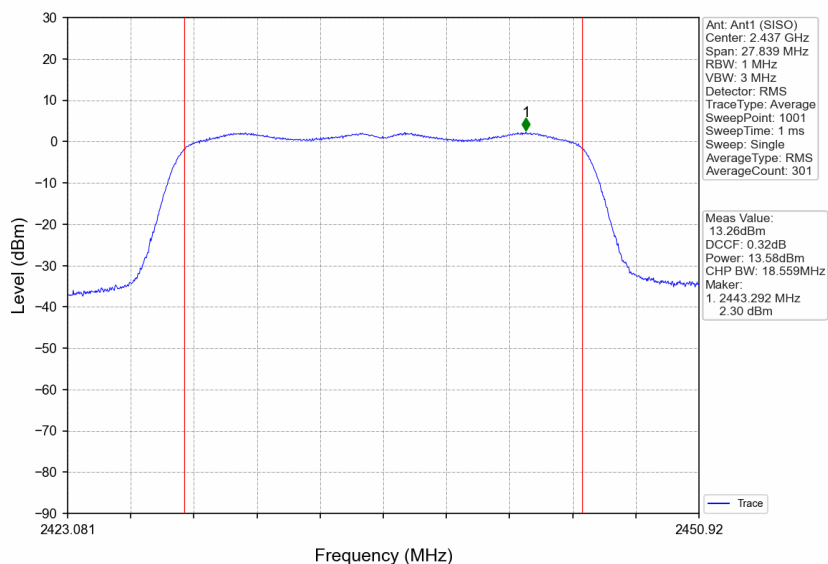
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## 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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



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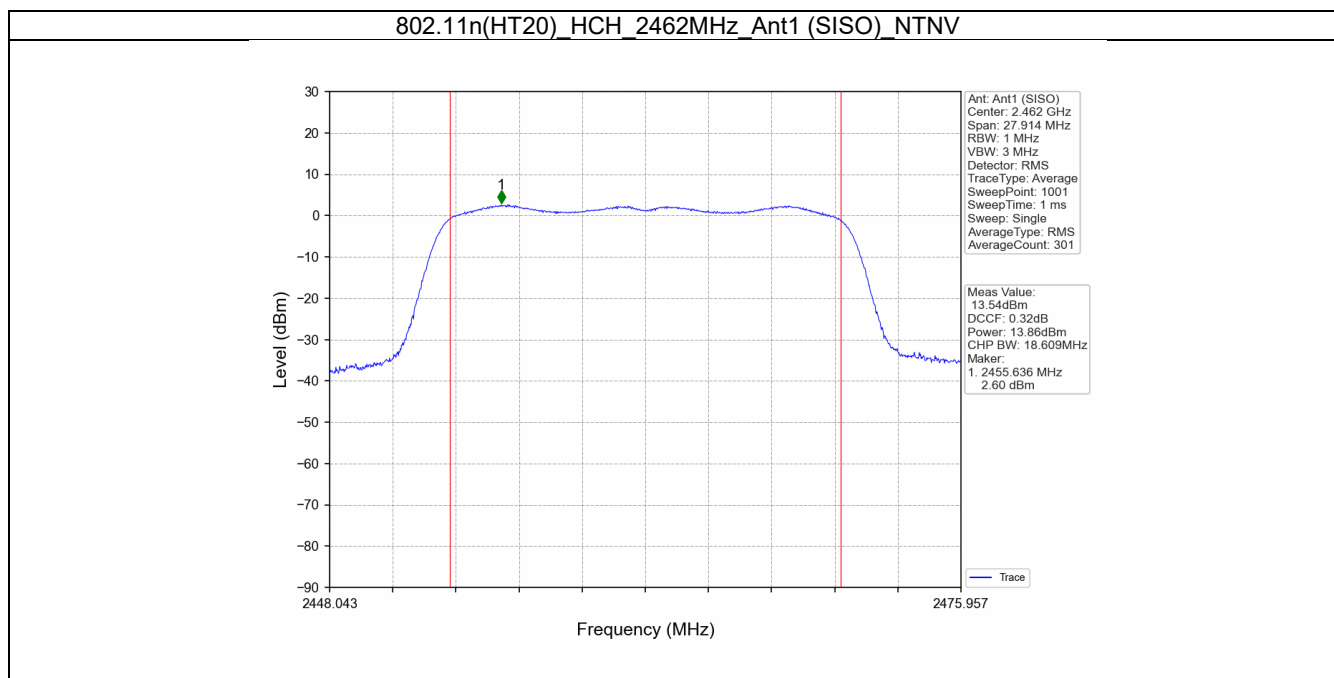
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## 4. Maximum Power Spectral Density

### 4.1 PSD

#### 4.1.1 Test Result

| Mode           | TX Type | Frequency (MHz) | Maximum PSD (dBm/3kHz) |       | Verdict |
|----------------|---------|-----------------|------------------------|-------|---------|
|                |         |                 | Ant1                   | Limit |         |
| 802.11b        | SISO    | 2412            | -6.33                  | <=8   | Pass    |
|                |         | 2437            | -6.83                  | <=8   | Pass    |
|                |         | 2462            | -5.47                  | <=8   | Pass    |
| 802.11g        | SISO    | 2412            | -11.92                 | <=8   | Pass    |
|                |         | 2437            | -10.06                 | <=8   | Pass    |
|                |         | 2462            | -10.39                 | <=8   | Pass    |
| 802.11n (HT20) | SISO    | 2412            | -12.73                 | <=8   | Pass    |
|                |         | 2437            | -12.05                 | <=8   | Pass    |
|                |         | 2462            | -11.55                 | <=8   | Pass    |

Note1: Antenna Gain: Ant1: 4.90dBi;



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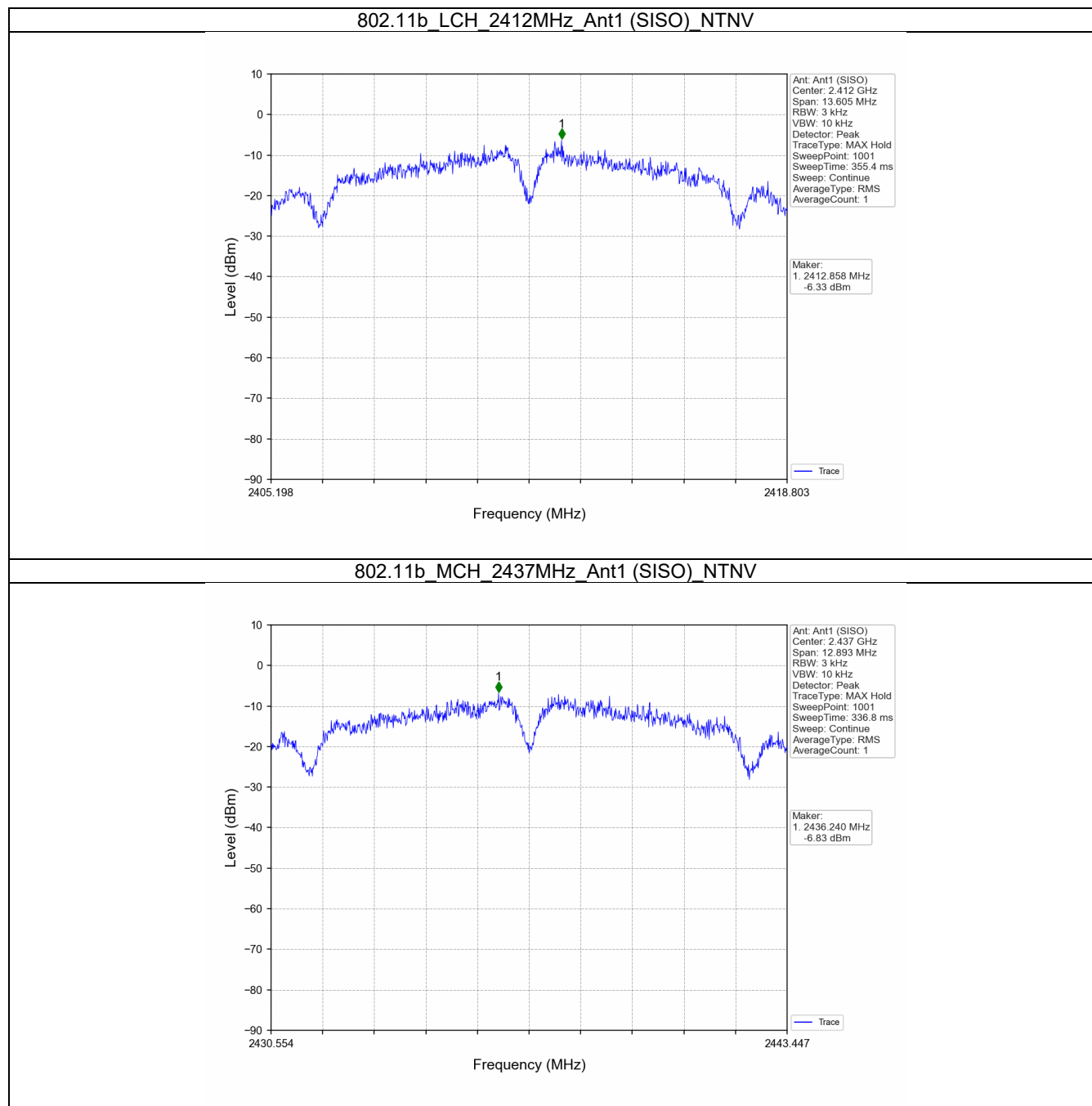
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## 4.1.2 Test Graph



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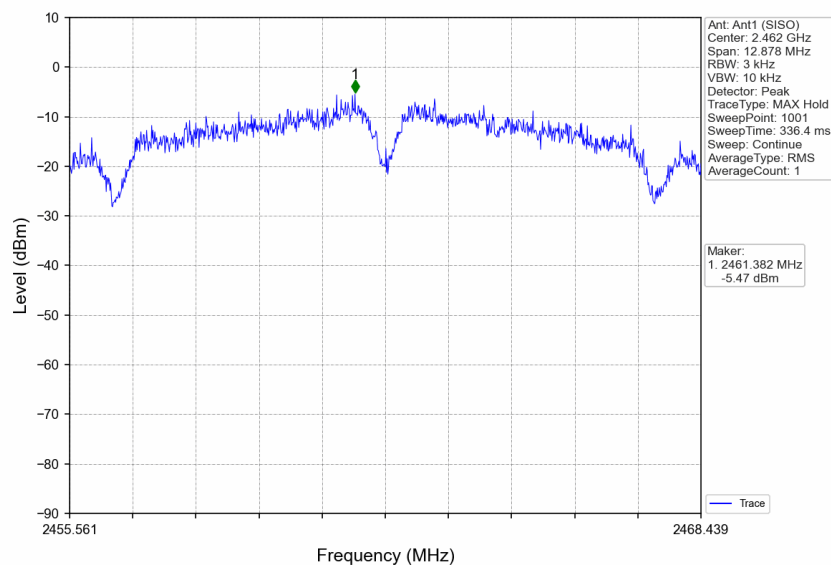
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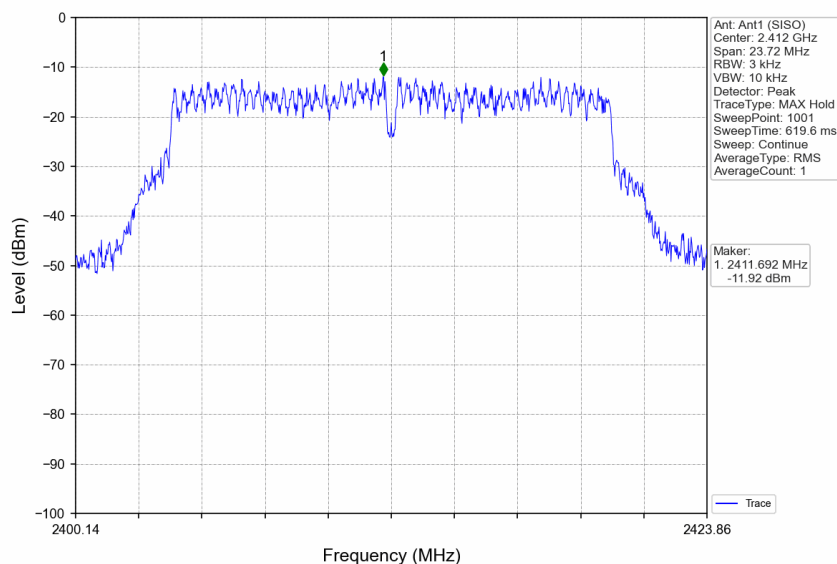
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## 802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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



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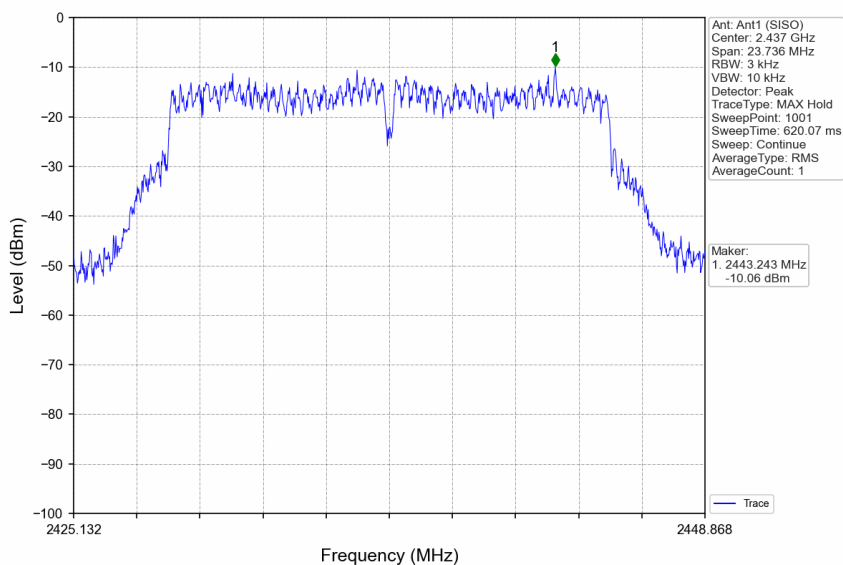
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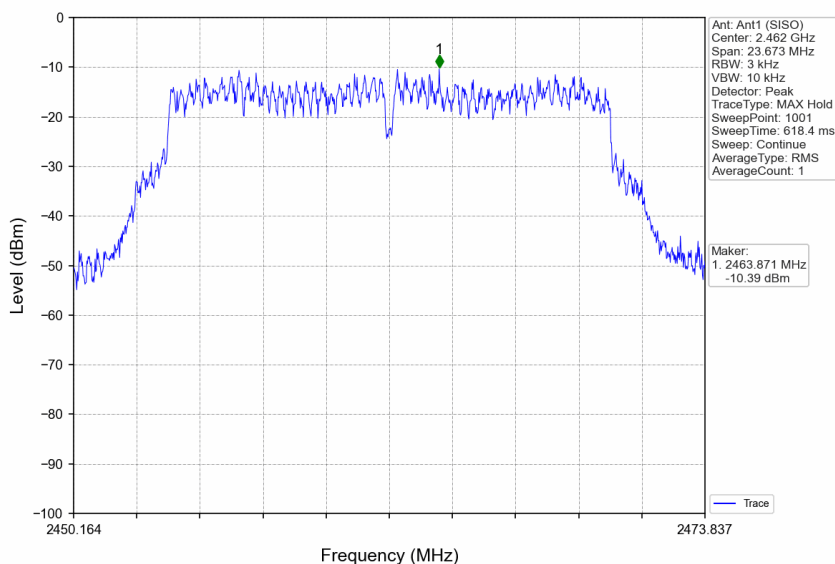
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## 802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



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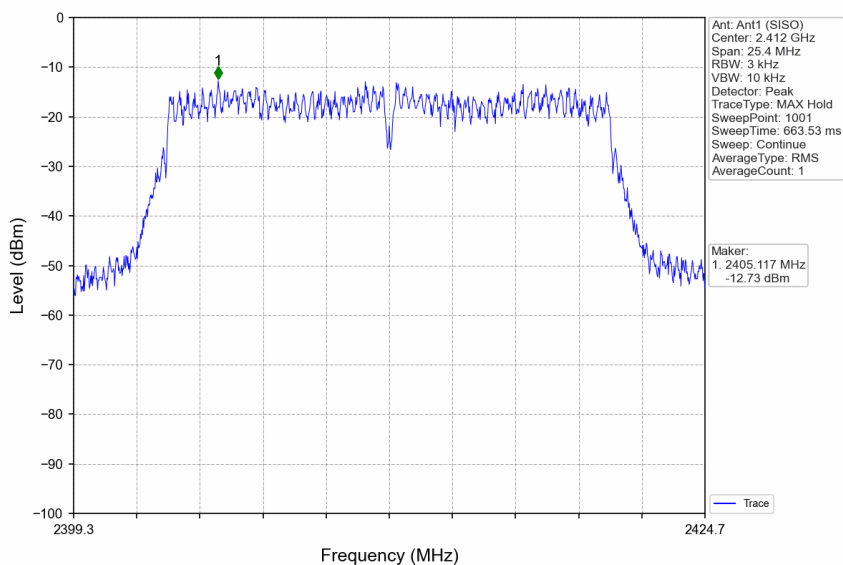
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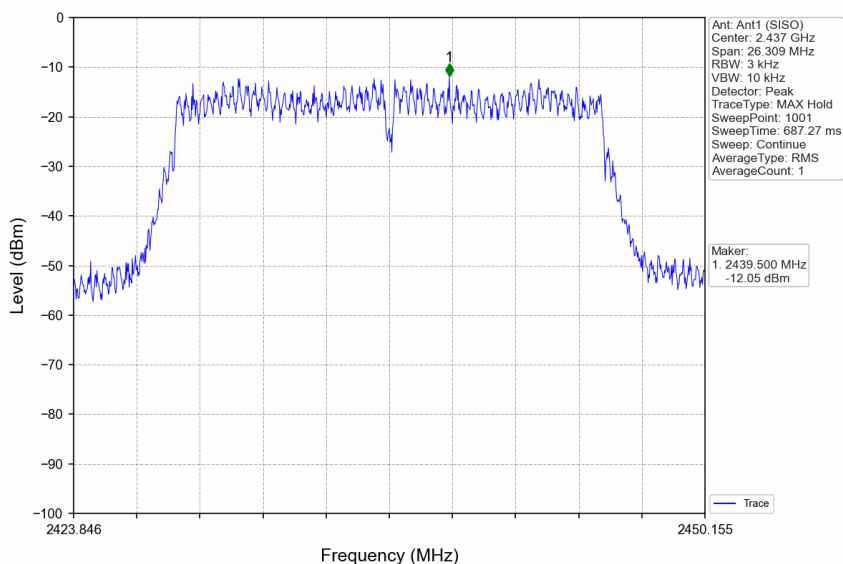
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## 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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



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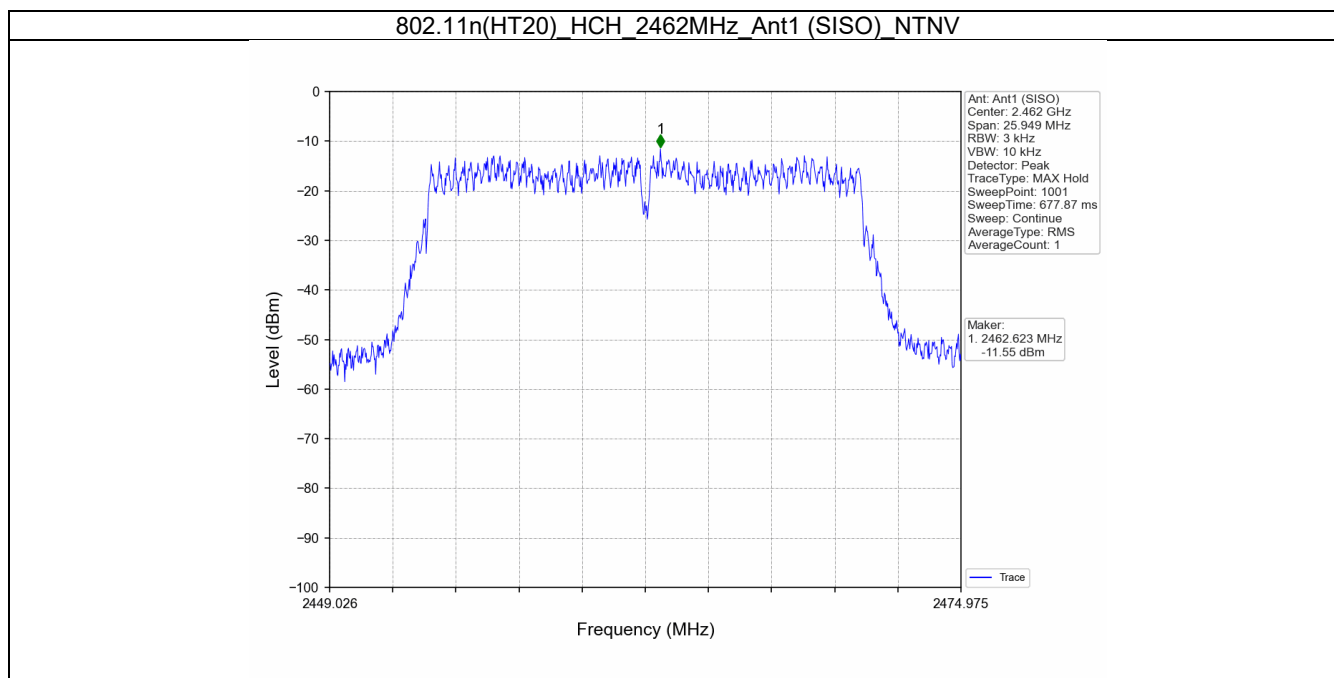
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## 5. Unwanted Emissions In Non-restricted Frequency Bands

### 5.1 Ref

#### 5.1.1 Test Result

| Mode           | TX Type | Frequency (MHz) | Ant | Level of Reference (dBm) |
|----------------|---------|-----------------|-----|--------------------------|
| 802.11b        | SISO    | 2412            | 1   | 7.40                     |
|                |         | 2437            | 1   | 8.16                     |
|                |         | 2462            | 1   | 8.43                     |
| 802.11g        | SISO    | 2412            | 1   | 3.79                     |
|                |         | 2437            | 1   | 3.58                     |
|                |         | 2462            | 1   | 4.10                     |
| 802.11n (HT20) | SISO    | 2412            | 1   | 2.35                     |
|                |         | 2437            | 1   | 2.37                     |
|                |         | 2462            | 1   | 3.53                     |

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.

Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



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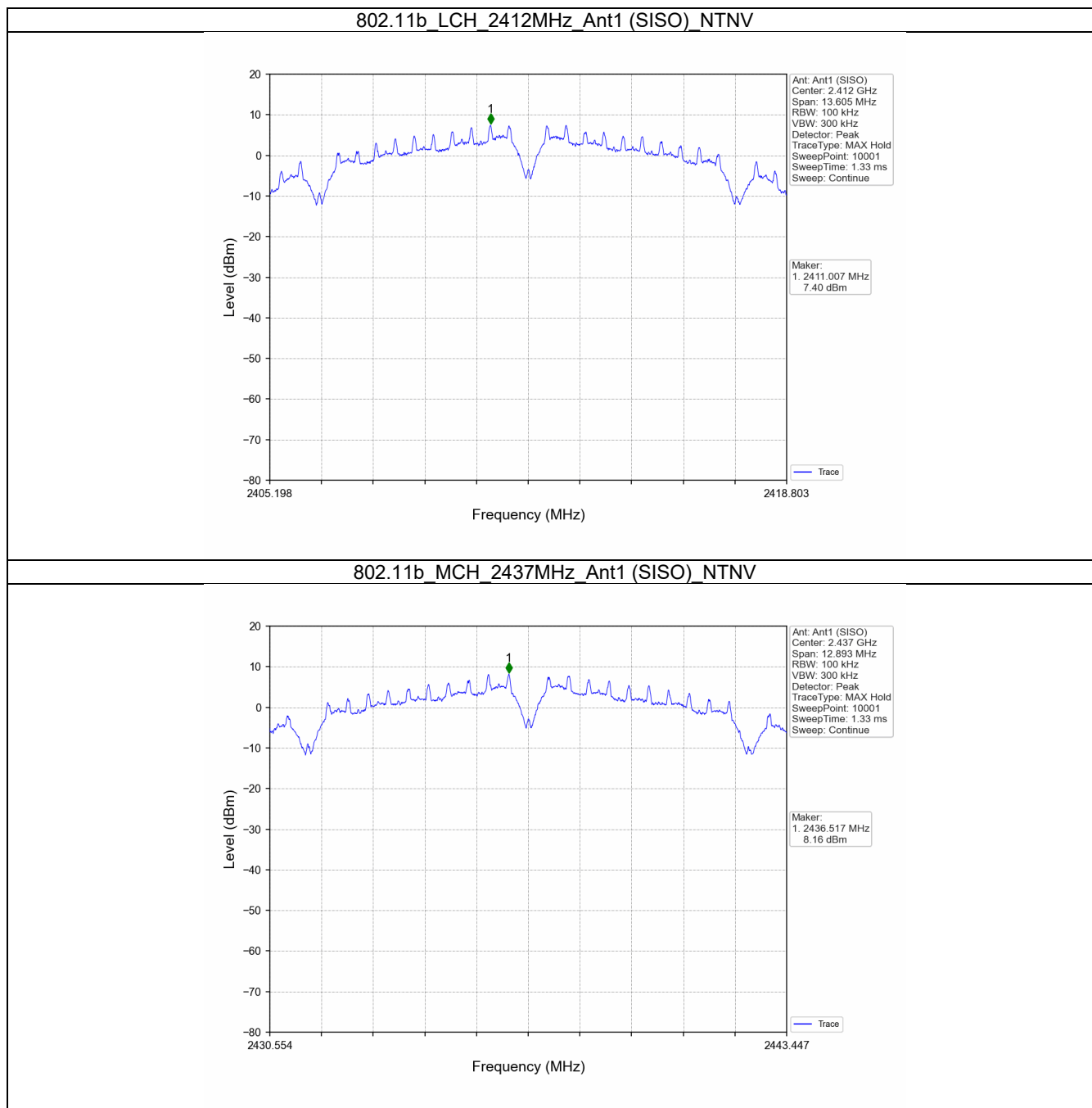
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## 5.1.2 Test Graph



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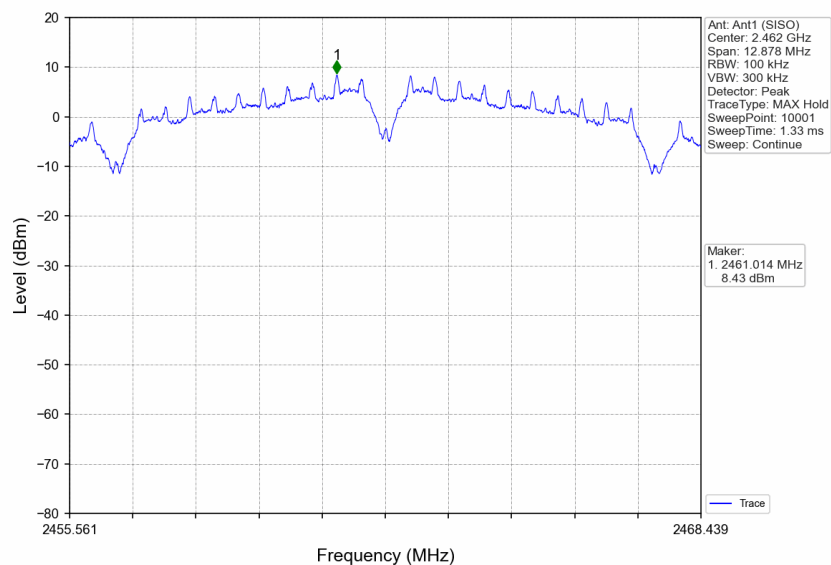
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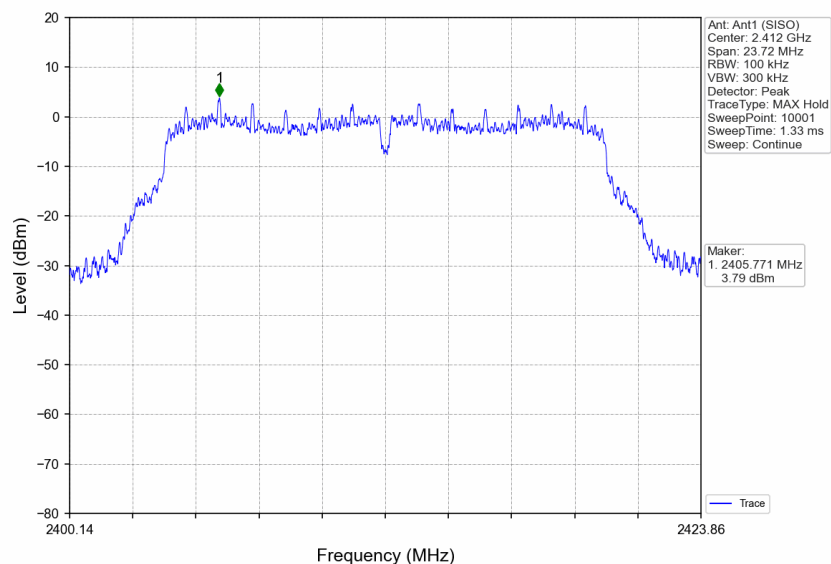


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## 802.11b\_HCH\_2462MHz\_Ant1 (SISO) NTN



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



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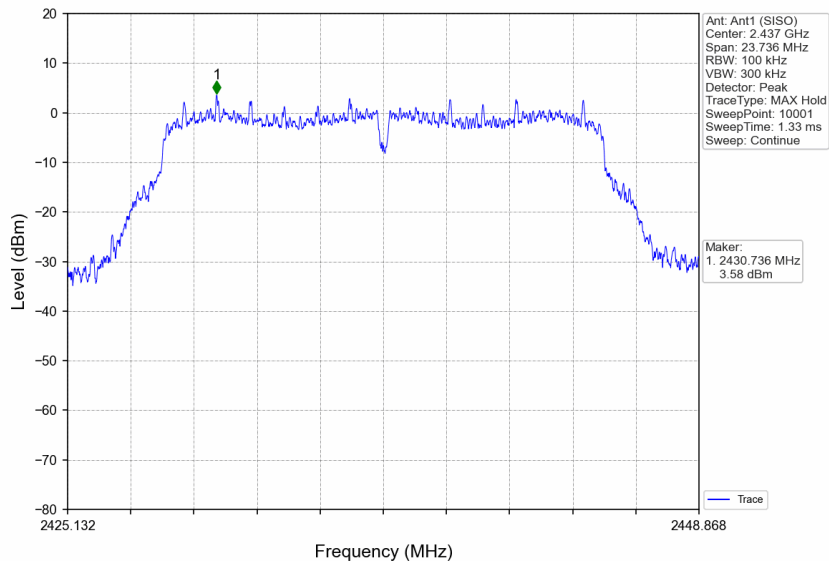
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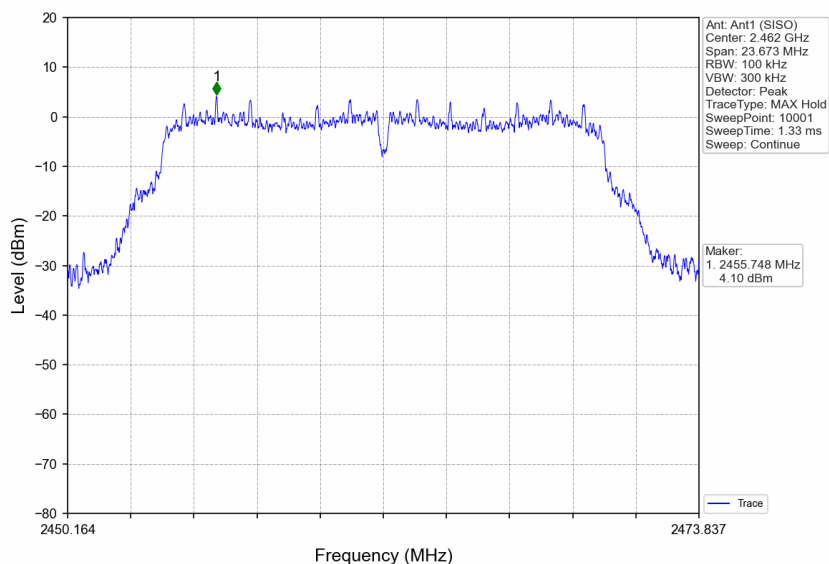
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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



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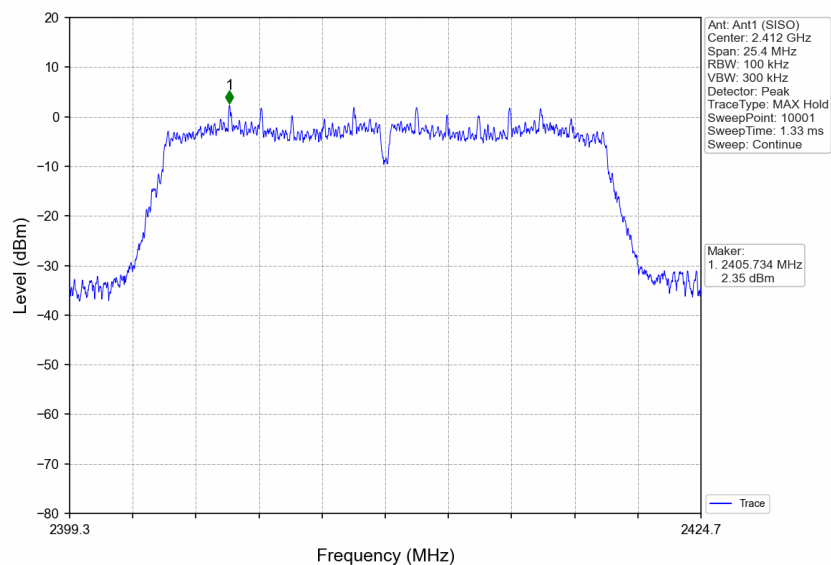
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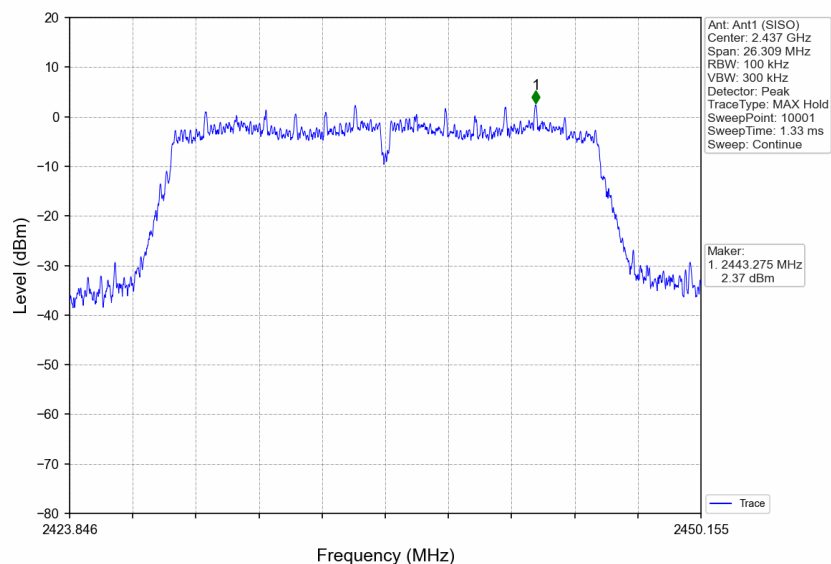
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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



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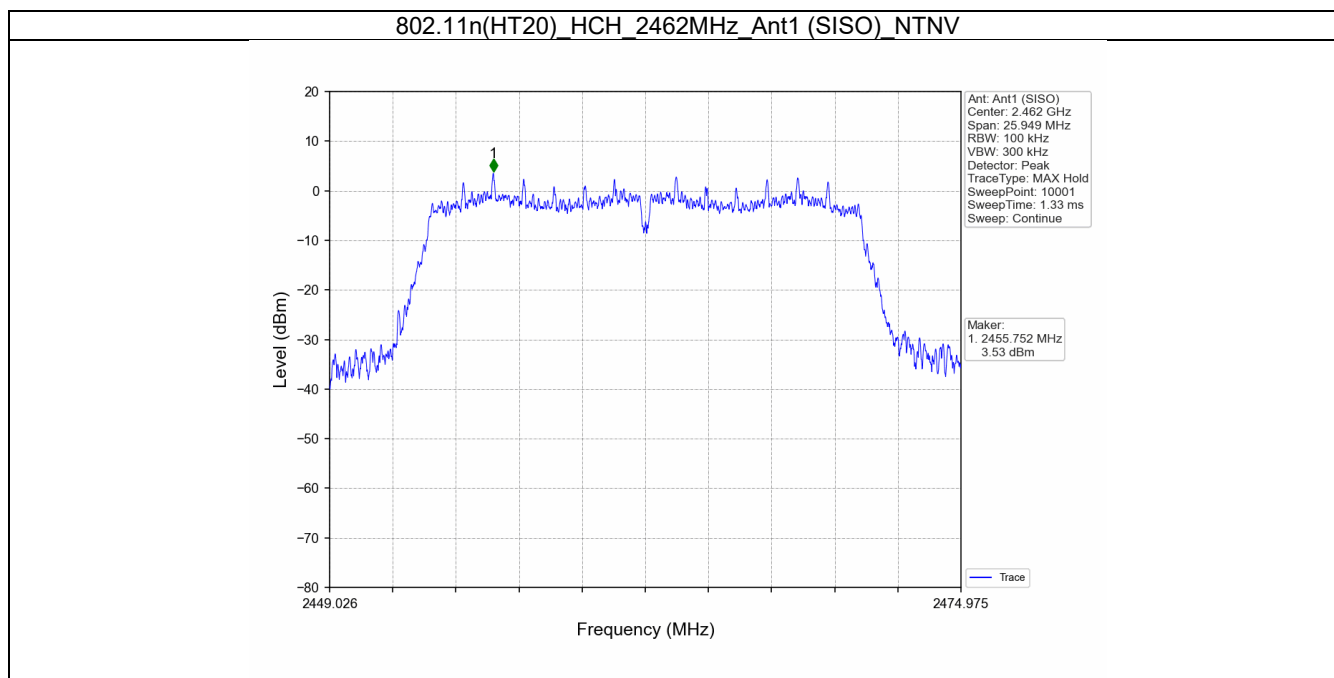
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## 5.2 CSE

### 5.2.1 Test Result

| Mode           | TX Type | Frequency (MHz) | Ant | Level of Reference (dBm) | Limit (dBm) | Verdict |
|----------------|---------|-----------------|-----|--------------------------|-------------|---------|
| 802.11b        | SISO    | 2412            | 1   | 8.43                     | -21.57      | Pass    |
|                |         | 2437            | 1   | 8.43                     | -21.57      | Pass    |
|                |         | 2462            | 1   | 8.43                     | -21.57      | Pass    |
| 802.11g        | SISO    | 2412            | 1   | 4.10                     | -25.90      | Pass    |
|                |         | 2437            | 1   | 4.10                     | -25.90      | Pass    |
|                |         | 2462            | 1   | 4.10                     | -25.90      | Pass    |
| 802.11n (HT20) | SISO    | 2412            | 1   | 3.53                     | -26.47      | Pass    |
|                |         | 2437            | 1   | 3.53                     | -26.47      | Pass    |
|                |         | 2462            | 1   | 3.53                     | -26.47      | 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.

Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



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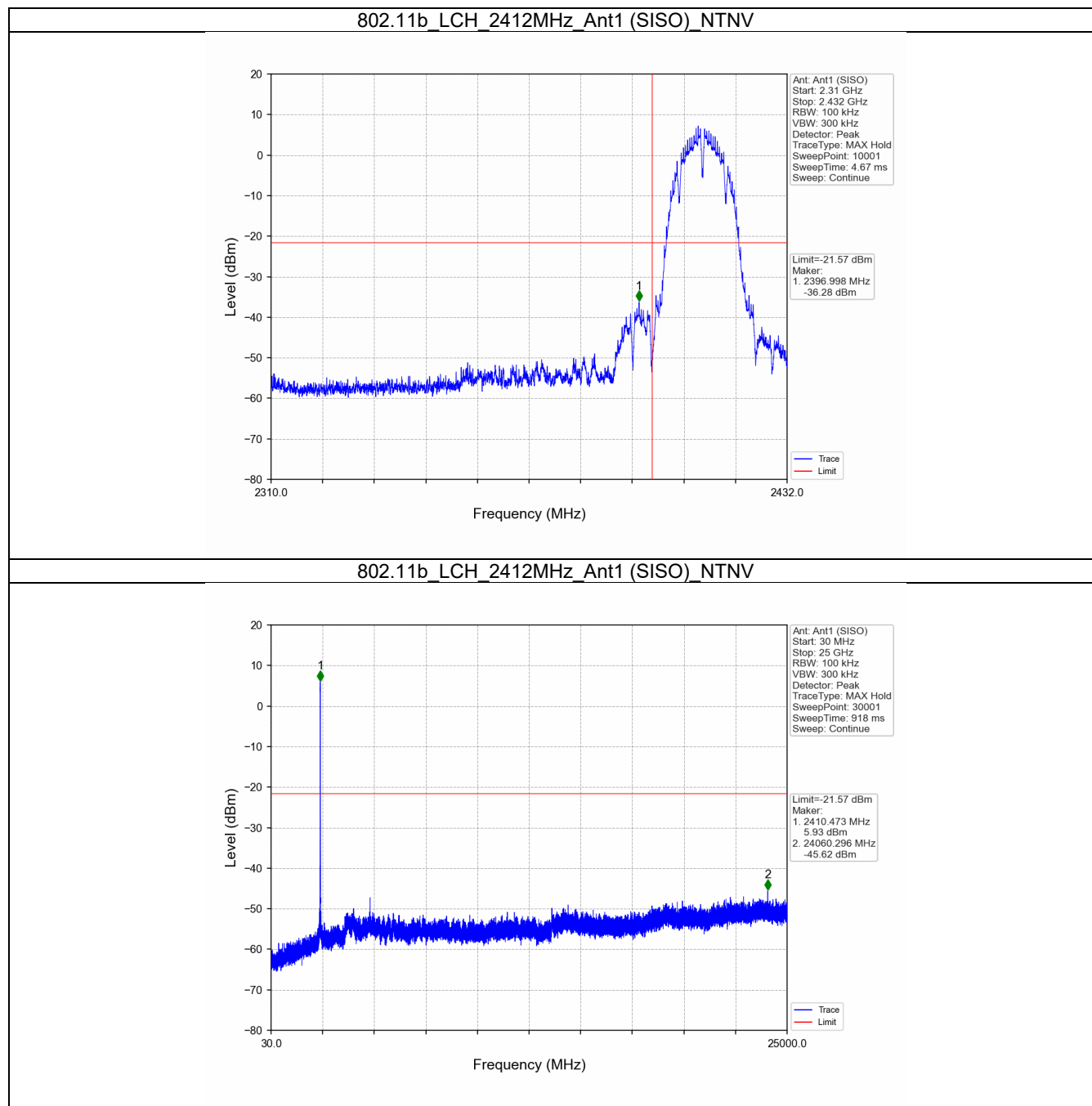
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## 5.2.2 Test Graph



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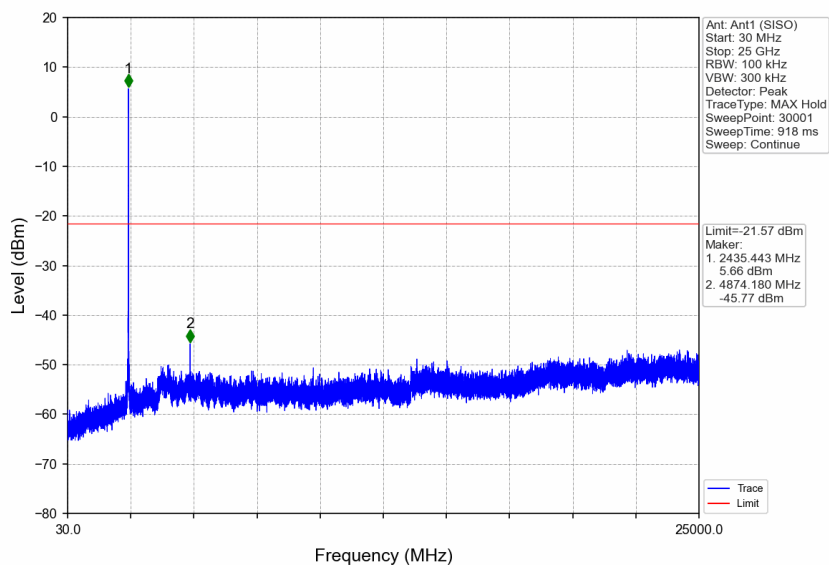
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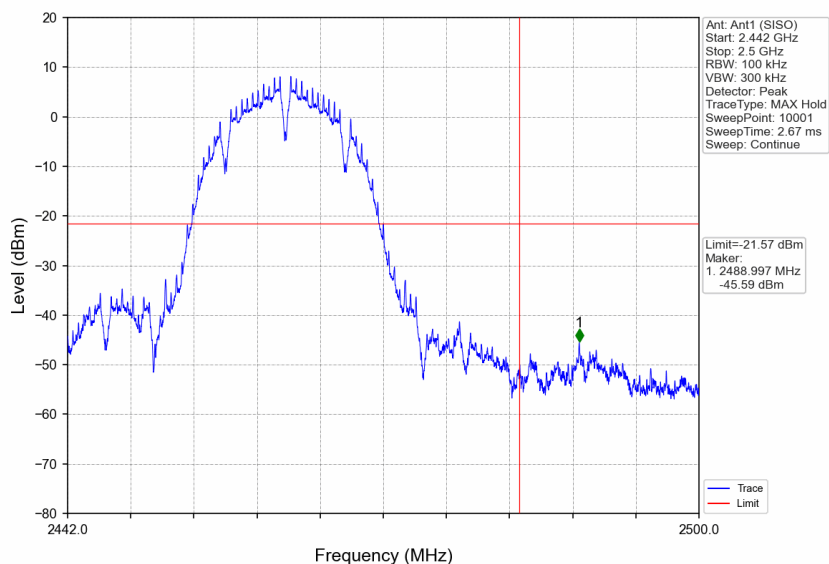
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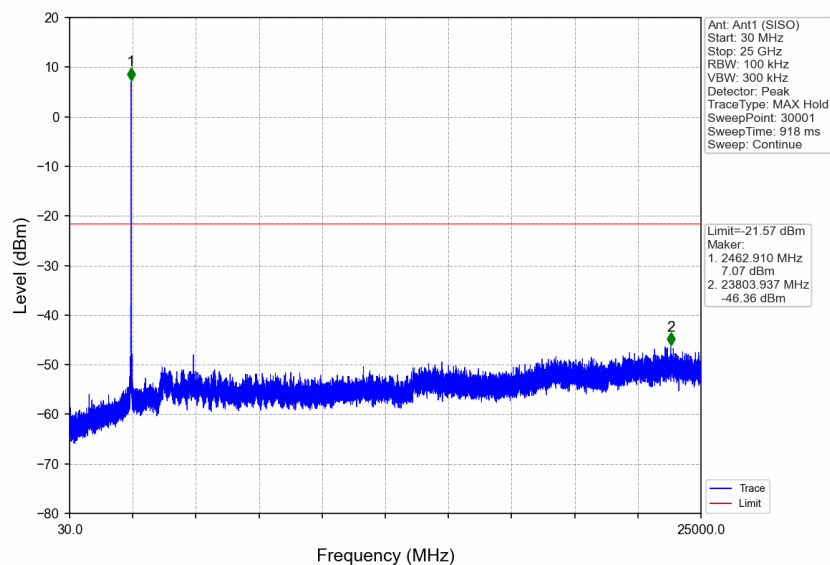
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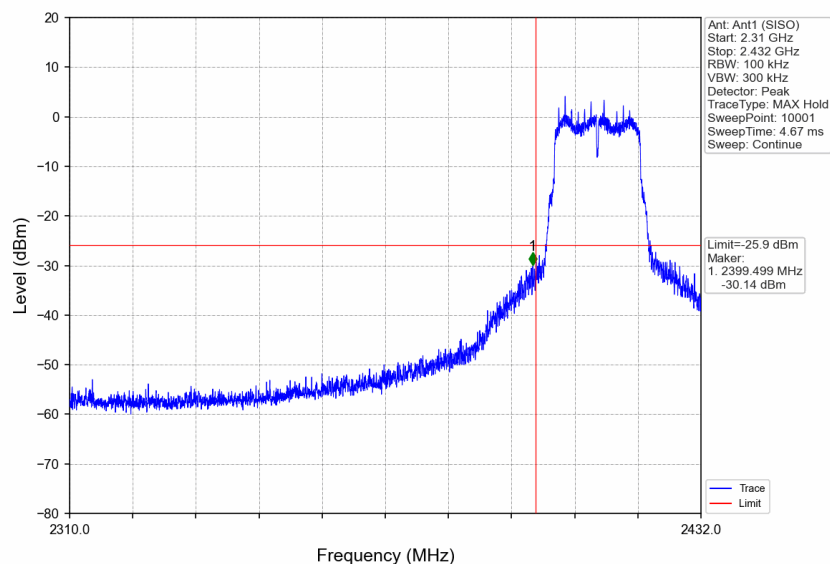
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## 802.11b\_HCH\_2462MHz\_Ant1 (SISO) NTN



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



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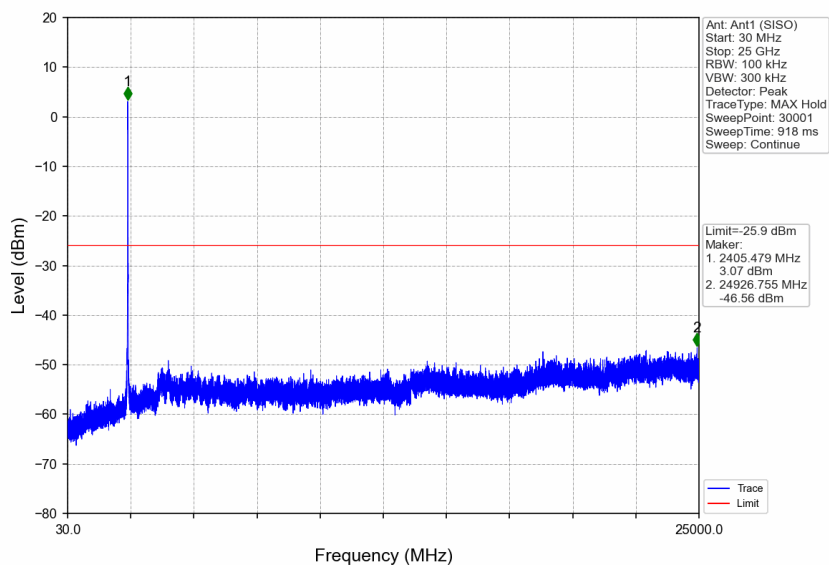
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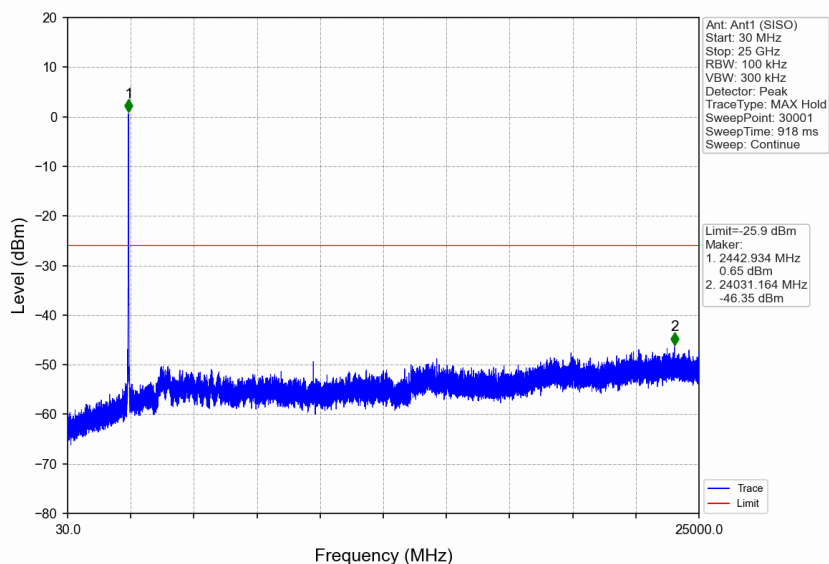
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## 802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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



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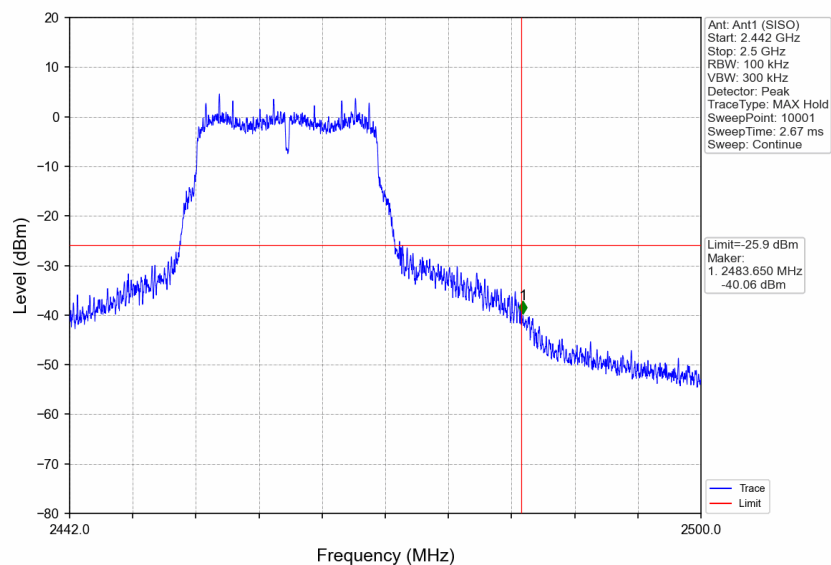
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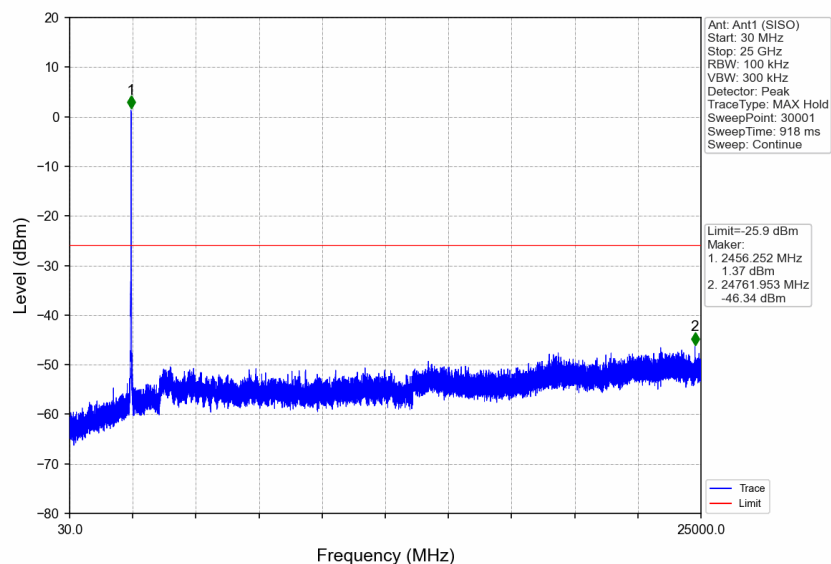
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## 802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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



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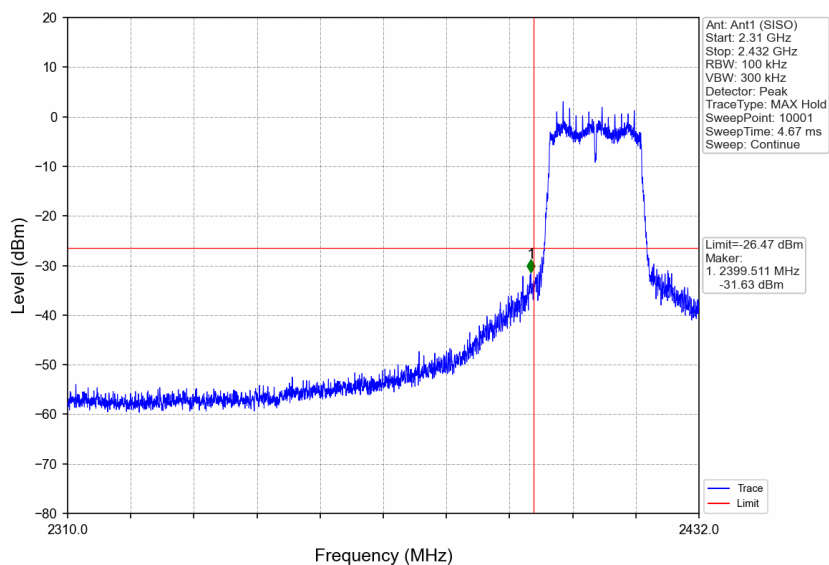
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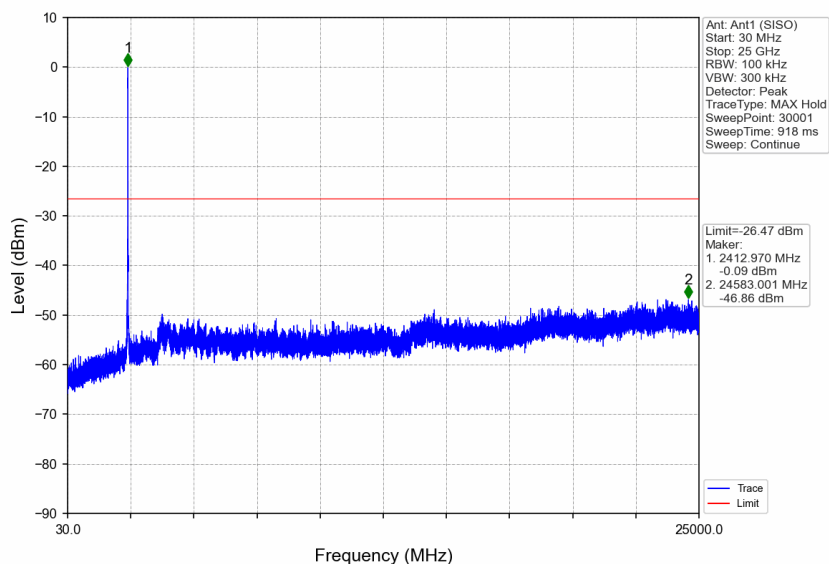
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## 802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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



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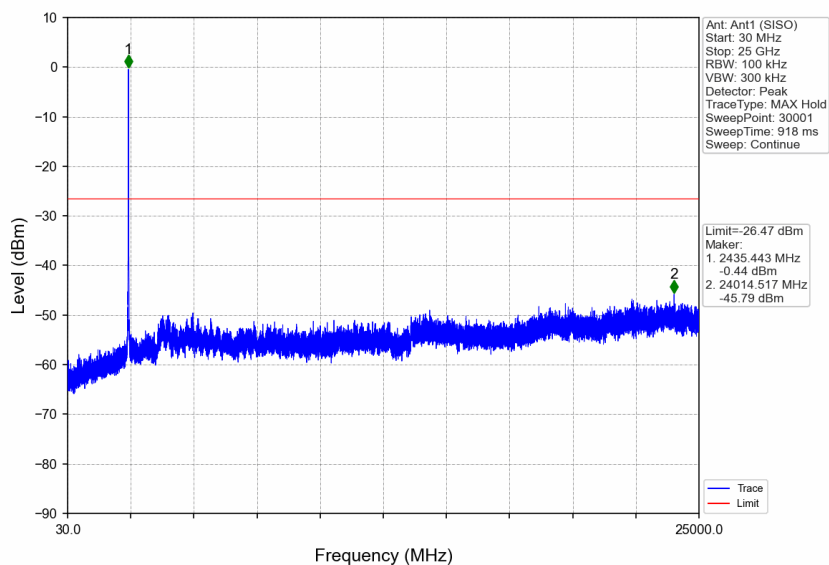
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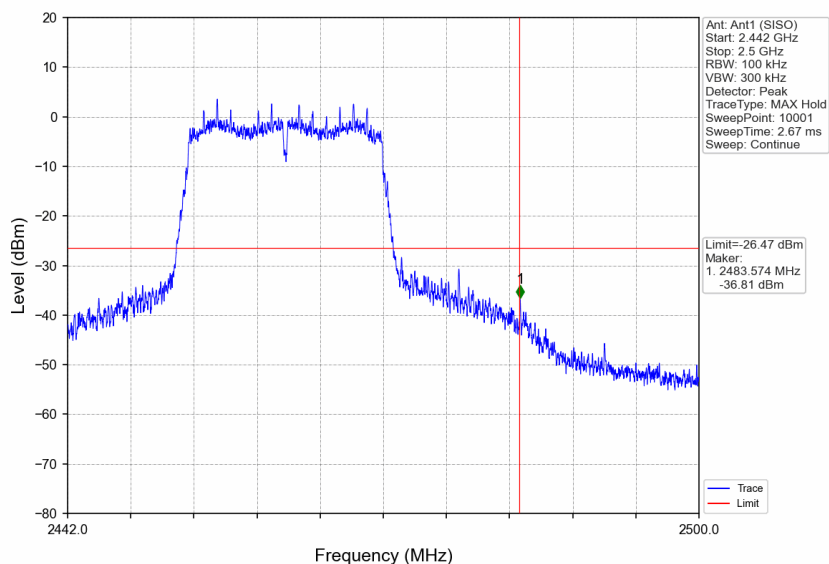
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## 802.11n(HT20)\_MCH\_2437MHz\_Ant1(SISO)\_NTNV



## 802.11n(HT20)\_HCH\_2462MHz\_Ant1(SISO)\_NTNV



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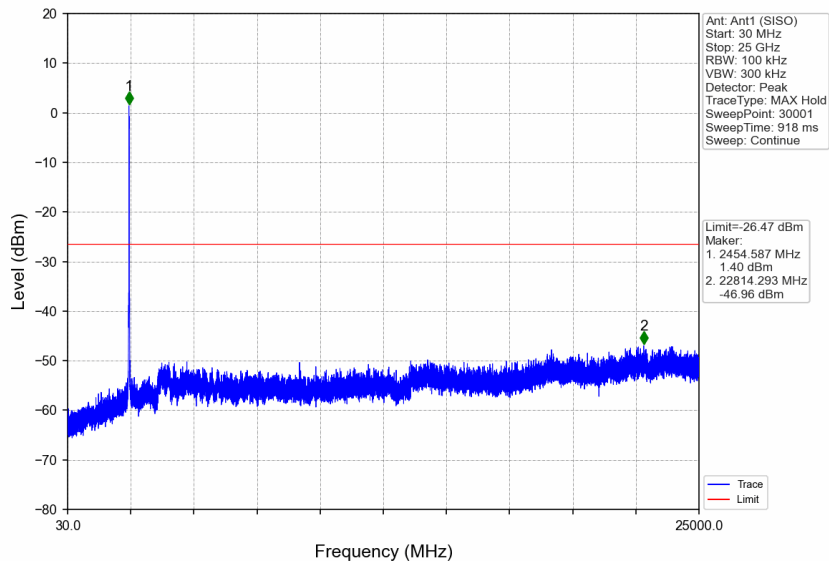
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