

## Appendix Test Data

|                |                 |                    |                   |
|----------------|-----------------|--------------------|-------------------|
| Report No.:    | 18220WC10124601 | Test Date:         | 2021.6.16         |
| Test Engineer: | <i>Tony He</i>  | Auditor:           | <i>Edward Pan</i> |
| Temperature:   | 24.3°C          | Relative Humidity: | 56 %              |
| Pressure:      | 1012 hPa        |                    |                   |

## 1. Duty Cycle

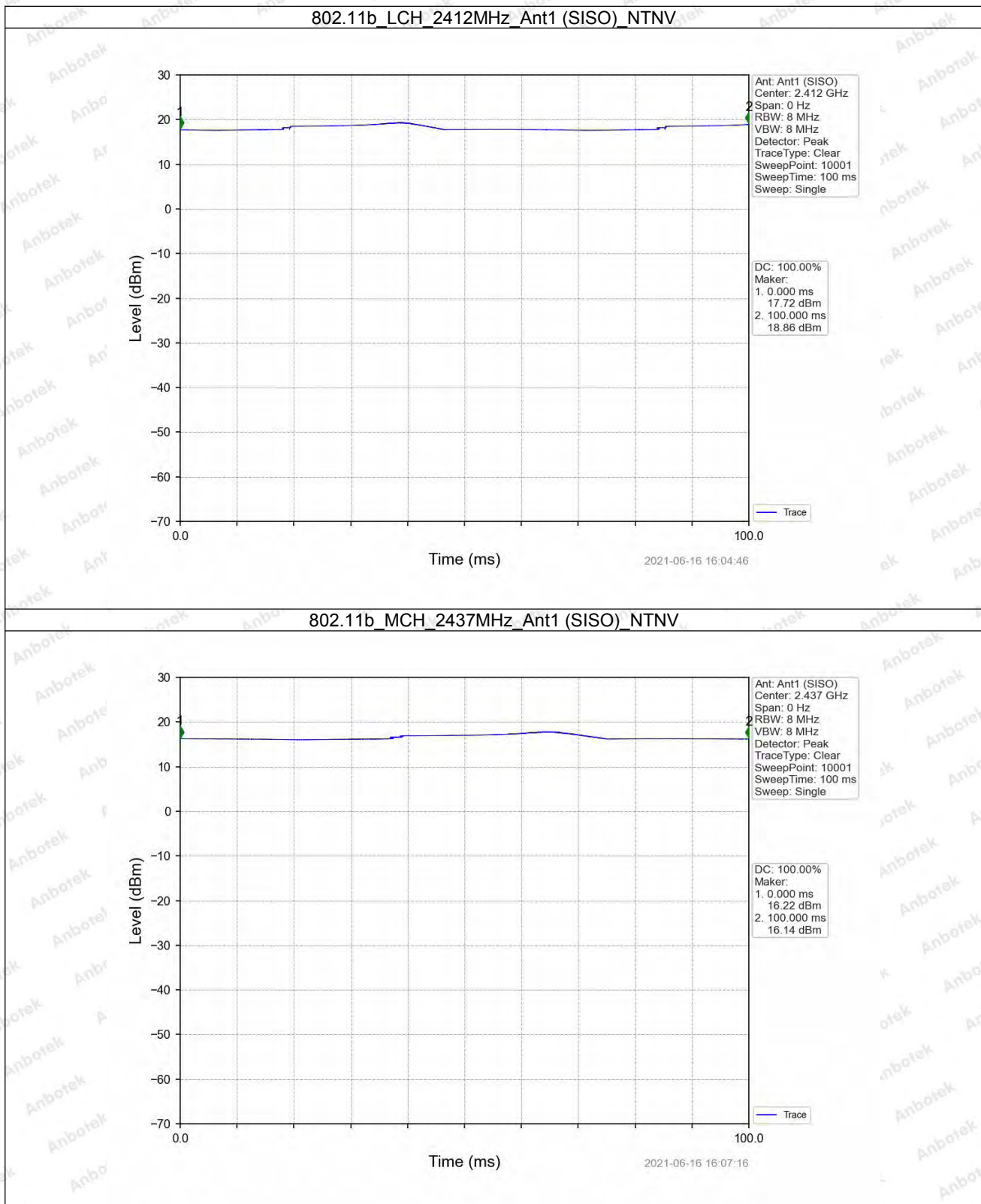
## 1.1 Ant1

## 1.1.1 Test Result

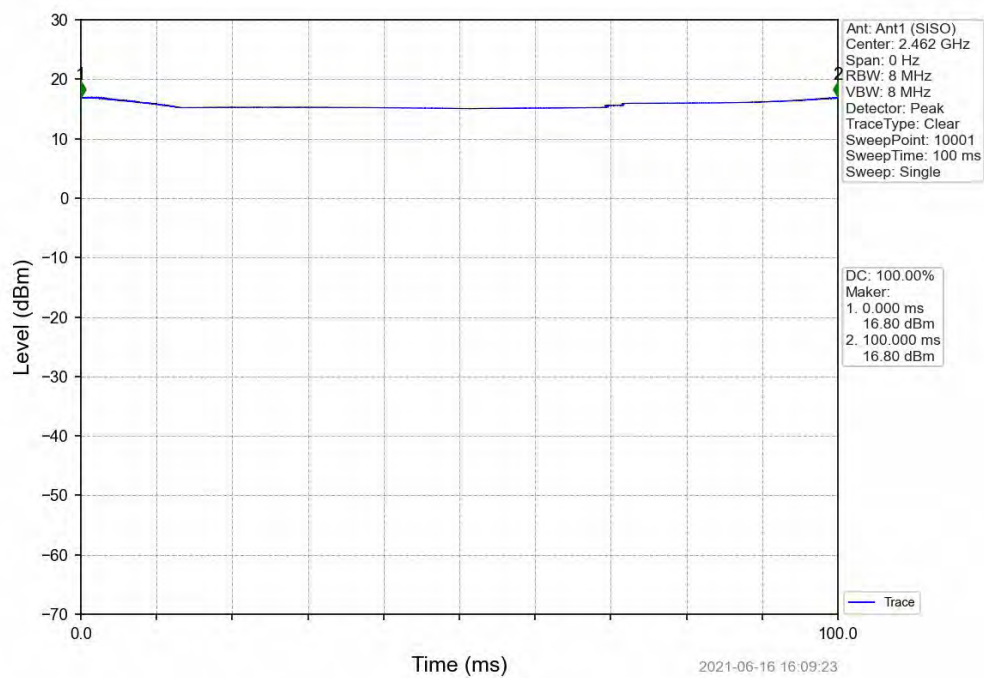
| Ant1           |         |                 |    |        |           |             |                |                                   |                       |
|----------------|---------|-----------------|----|--------|-----------|-------------|----------------|-----------------------------------|-----------------------|
| Mode           | Tx Type | Frequency (MHz) | RU | RU Pos | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| 802.11b        | SISO    | 2412            | /  | /      | 100.00    | 100.00      | 100.00         | 0.00                              | 0.00                  |
|                |         | 2437            | /  | /      | 100.00    | 100.00      | 100.00         | 0.00                              | 0.00                  |
|                |         | 2462            | /  | /      | 100.00    | 100.00      | 100.00         | 0.00                              | 0.00                  |
| 802.11g        | SISO    | 2412            | /  | /      | 100.00    | 100.00      | 100.00         | 0.00                              | 0.00                  |
|                |         | 2437            | /  | /      | 100.00    | 100.00      | 100.00         | 0.00                              | 0.00                  |
|                |         | 2462            | /  | /      | 100.00    | 100.00      | 100.00         | 0.00                              | 0.00                  |
| 802.11n (HT20) | SISO    | 2412            | /  | /      | 100.00    | 100.00      | 100.00         | 0.00                              | 0.00                  |
|                |         | 2437            | /  | /      | 100.00    | 100.00      | 100.00         | 0.00                              | 0.00                  |
|                |         | 2462            | /  | /      | 100.00    | 100.00      | 100.00         | 0.00                              | 0.00                  |
| 802.11n (HT40) | SISO    | 2422            | /  | /      | 100.00    | 100.00      | 100.00         | 0.00                              | 0.00                  |
|                |         | 2437            | /  | /      | 100.00    | 100.00      | 100.00         | 0.00                              | 0.00                  |
|                |         | 2452            | /  | /      | 100.00    | 100.00      | 100.00         | 0.00                              | 0.00                  |

Note1: Only for Report Use

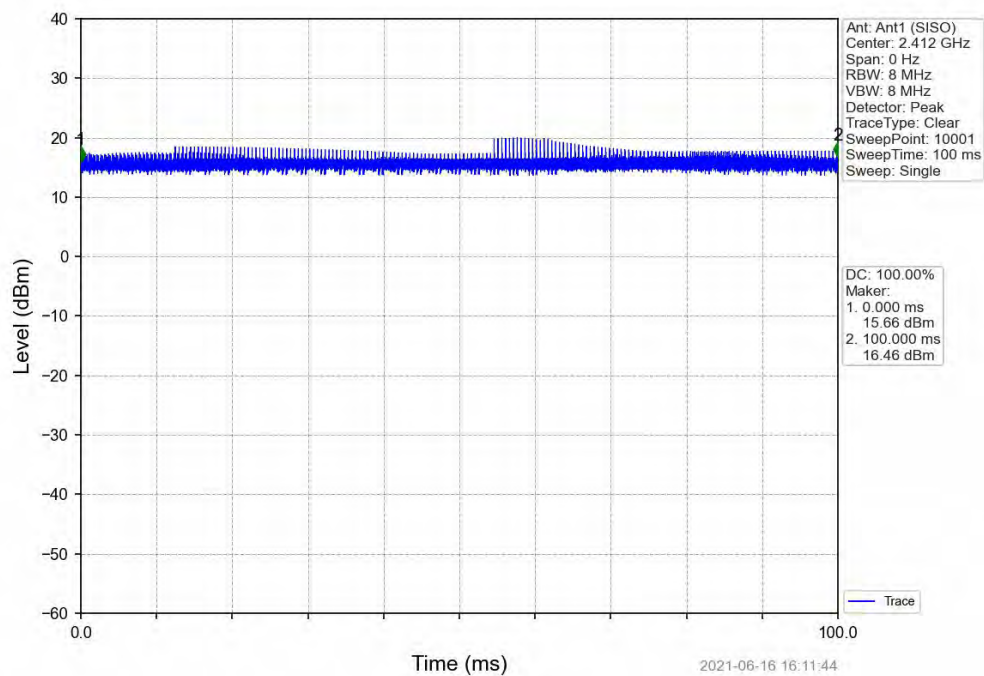
## 1.1.2 Test Graph



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



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



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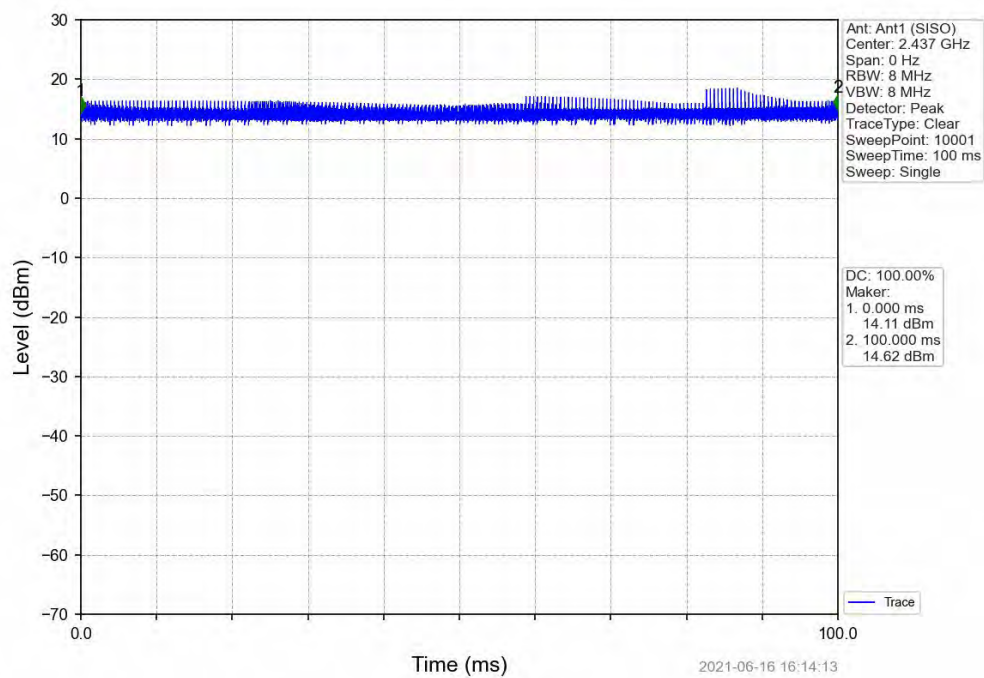


Hotline

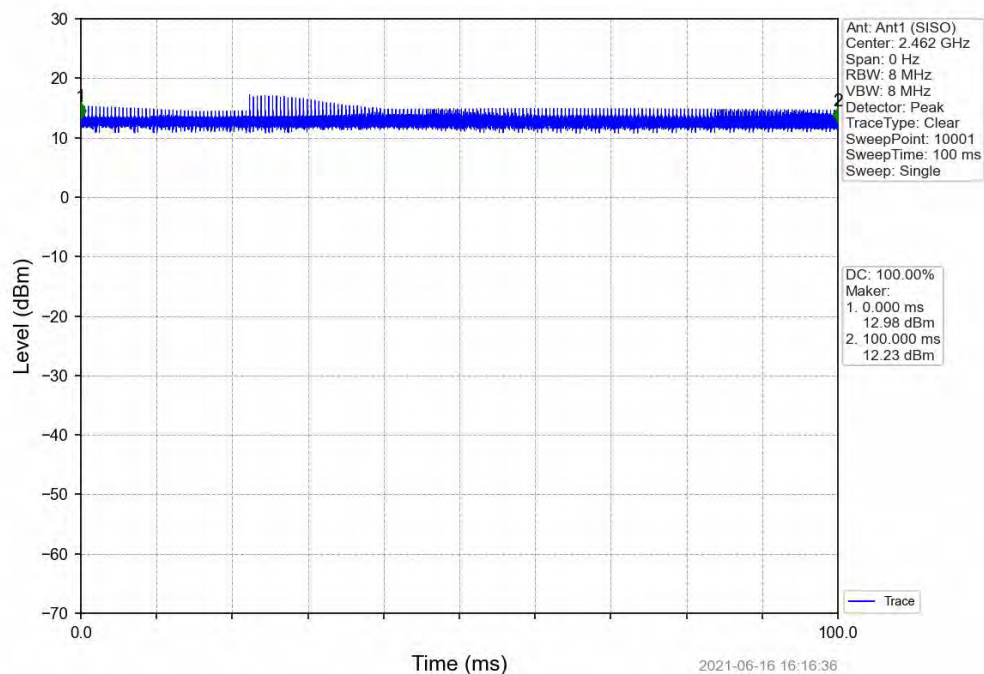
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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



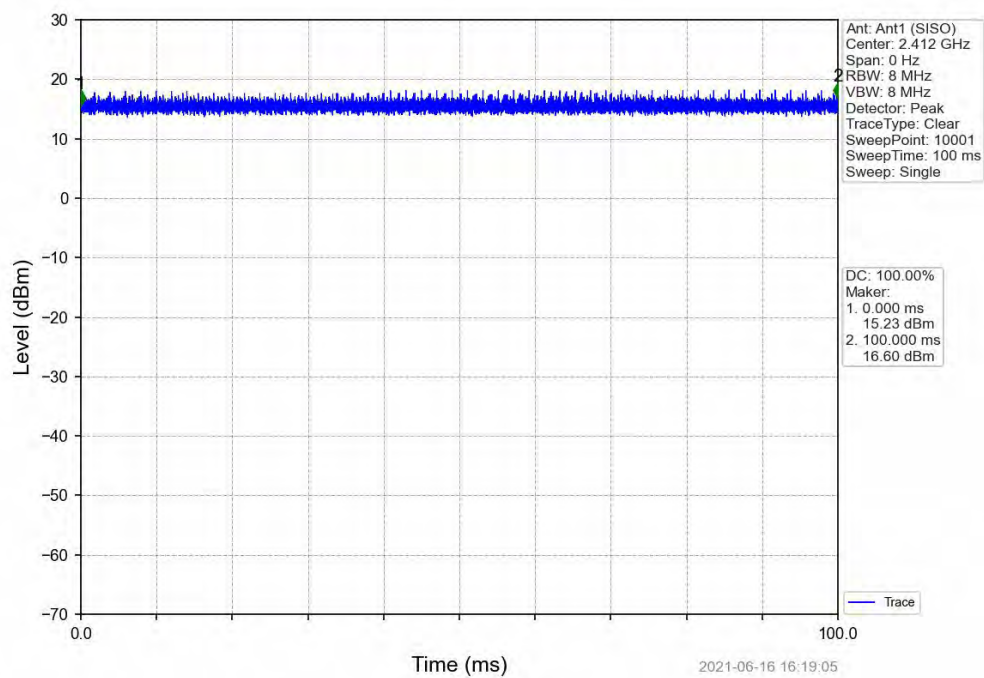
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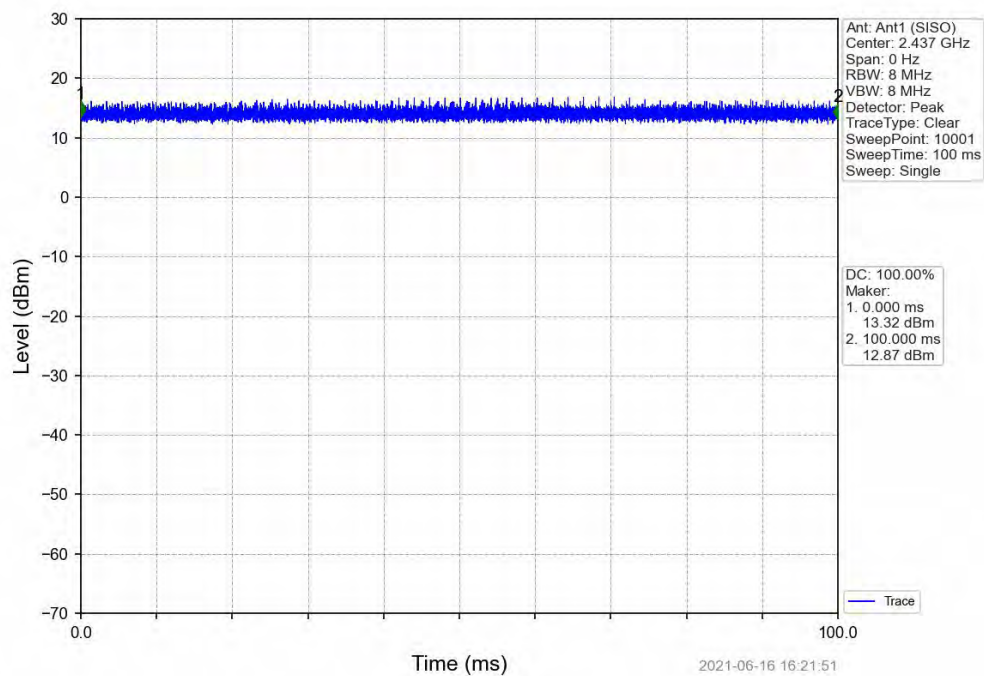
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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

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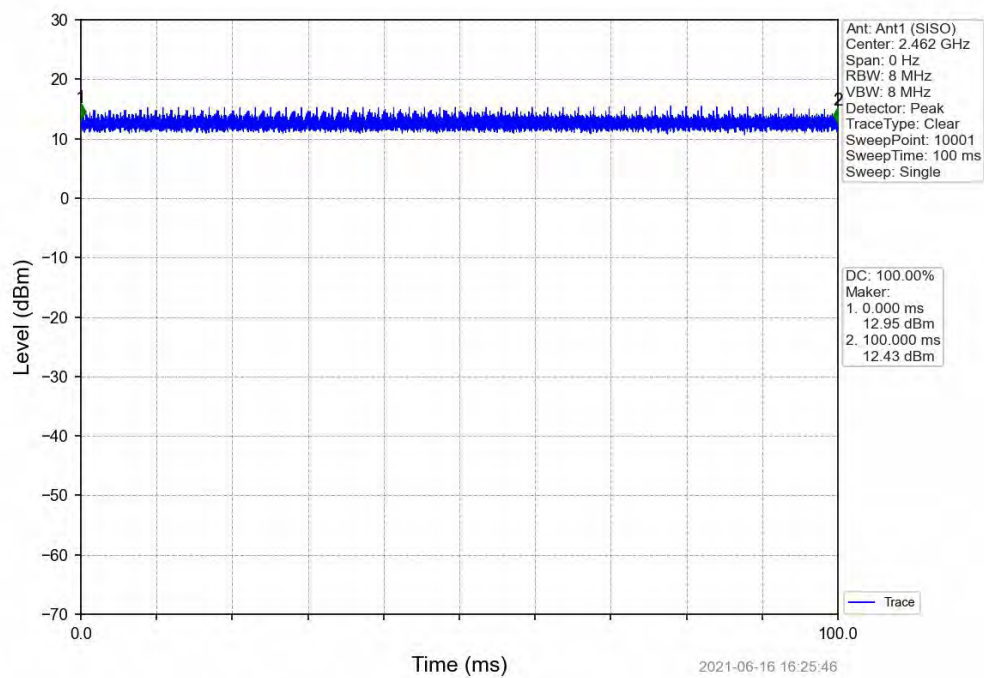


Hotline

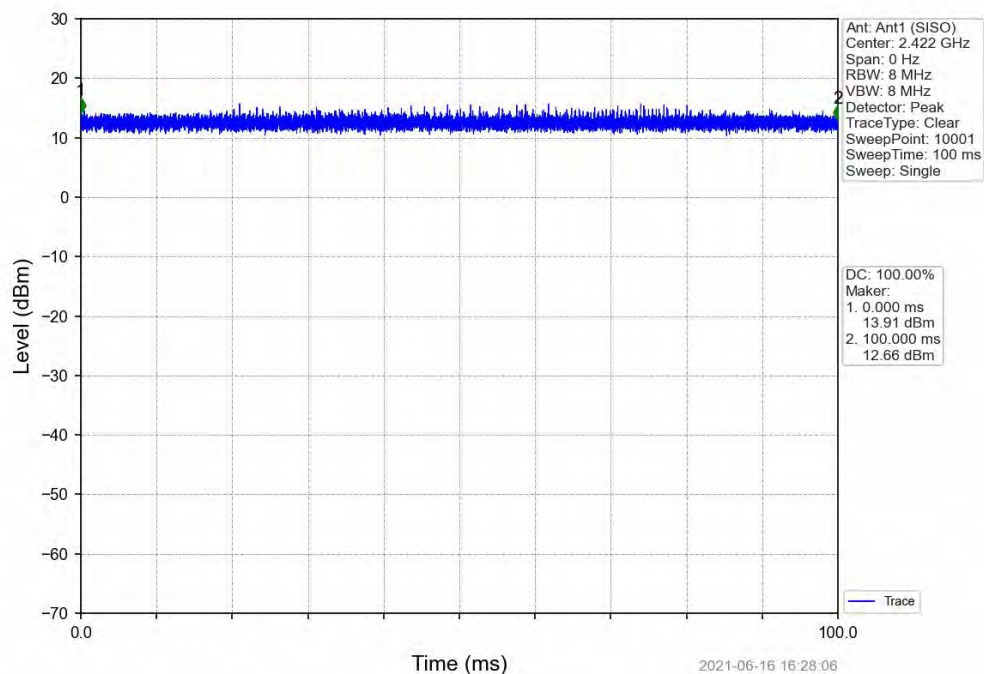
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802.11n(HT20)\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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



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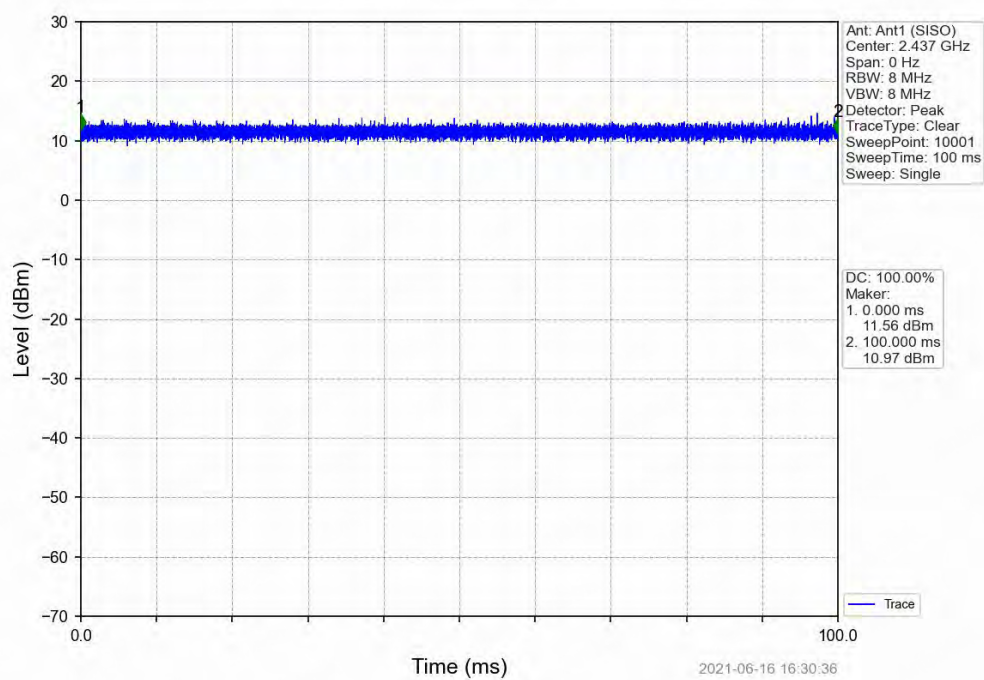


Hotline

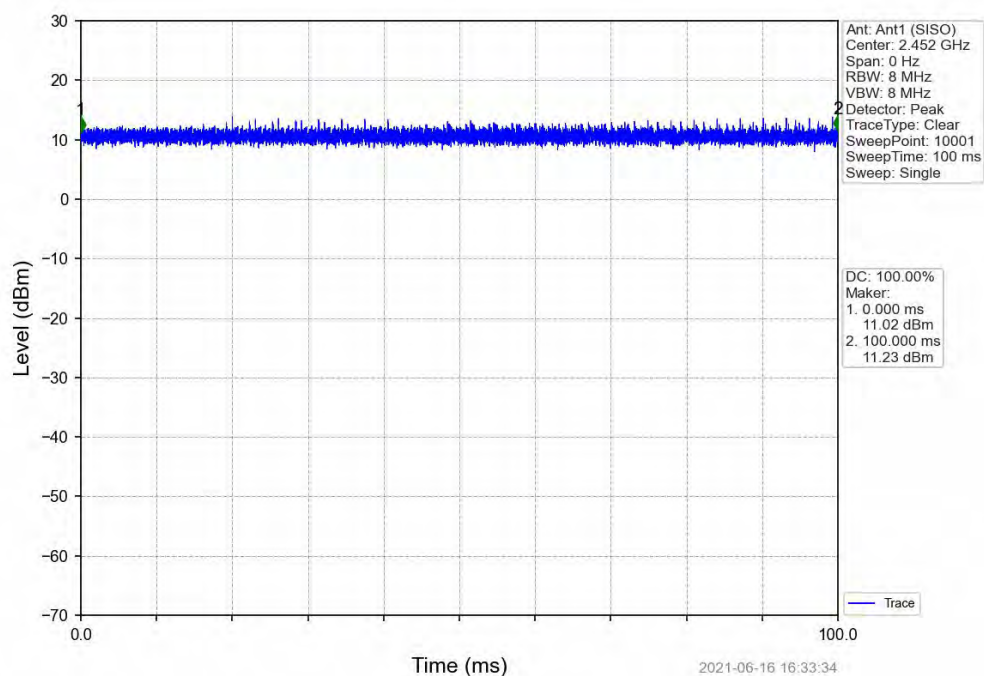
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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



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## 2. Bandwidth

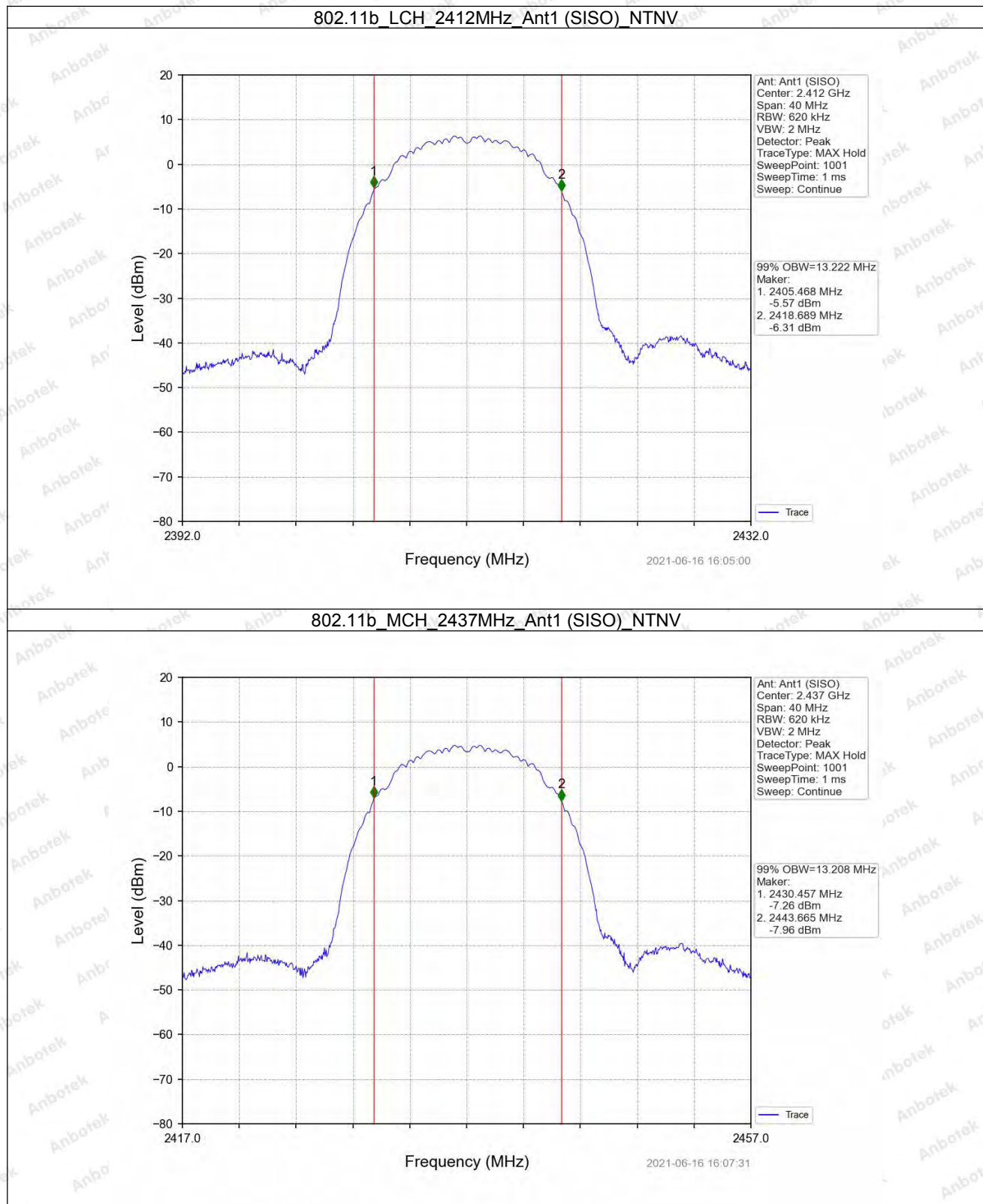
### 2.1 OBW

#### 2.1.1 Test Result

| Mode           | TX Type | Frequency (MHz) | RU | RU Pos | Ant | 99% Occupied Bandwidth (MHz) | Limit | Verdict |
|----------------|---------|-----------------|----|--------|-----|------------------------------|-------|---------|
| 802.11b        | SISO    | 2412            | /  | /      | 1   | 13.22                        | /     | Note1   |
|                |         | 2437            | /  | /      | 1   | 13.21                        | /     | Note1   |
|                |         | 2462            | /  | /      | 1   | 13.23                        | /     | Note1   |
| 802.11g        | SISO    | 2412            | /  | /      | 1   | 16.89                        | /     | Note1   |
|                |         | 2437            | /  | /      | 1   | 16.89                        | /     | Note1   |
|                |         | 2462            | /  | /      | 1   | 16.90                        | /     | Note1   |
| 802.11n (HT20) | SISO    | 2412            | /  | /      | 1   | 17.55                        | /     | Note1   |
|                |         | 2437            | /  | /      | 1   | 17.55                        | /     | Note1   |
|                |         | 2462            | /  | /      | 1   | 17.56                        | /     | Note1   |
| 802.11n (HT40) | SISO    | 2422            | /  | /      | 1   | 35.03                        | /     | Note1   |
|                |         | 2437            | /  | /      | 1   | 35.02                        | /     | Note1   |
|                |         | 2452            | /  | /      | 1   | 35.05                        | /     | Note1   |

Note1: Only for Report Use

## 2.1.2 Test Graph



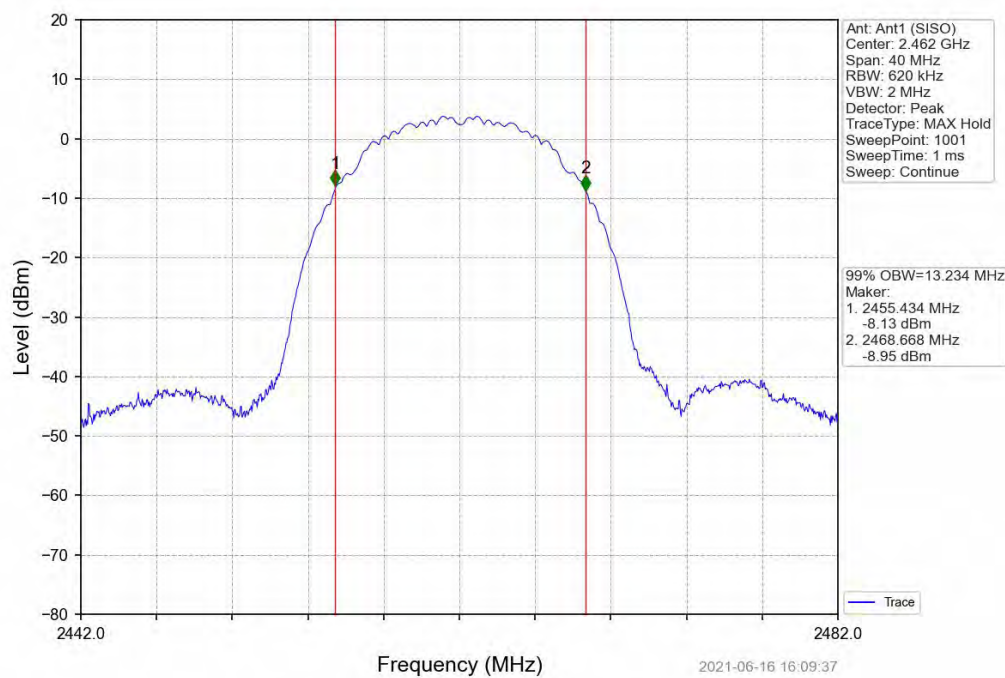
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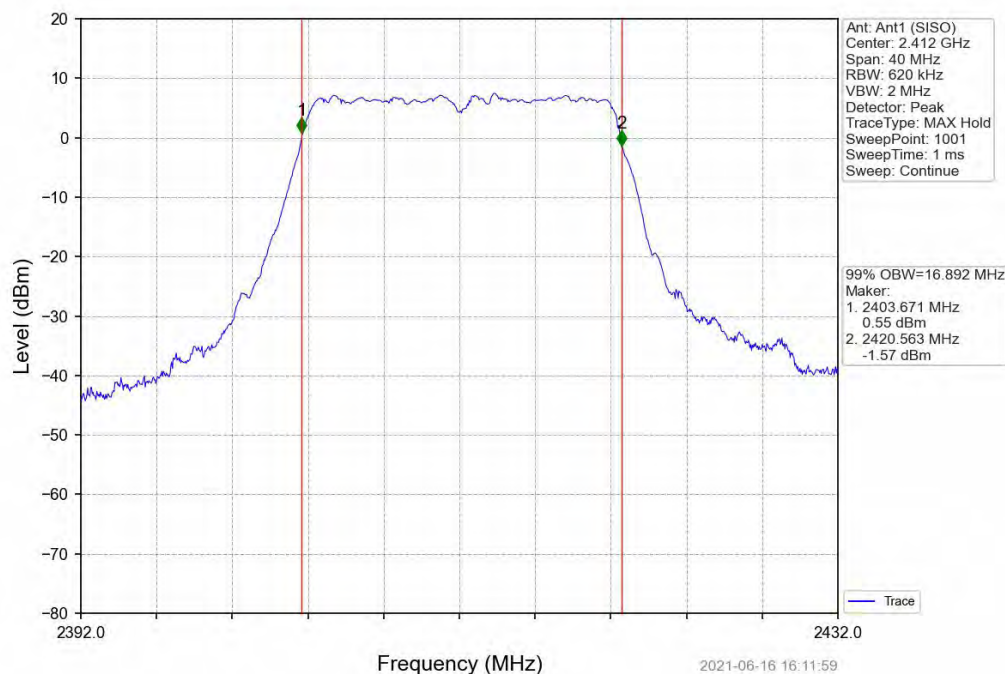
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802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



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



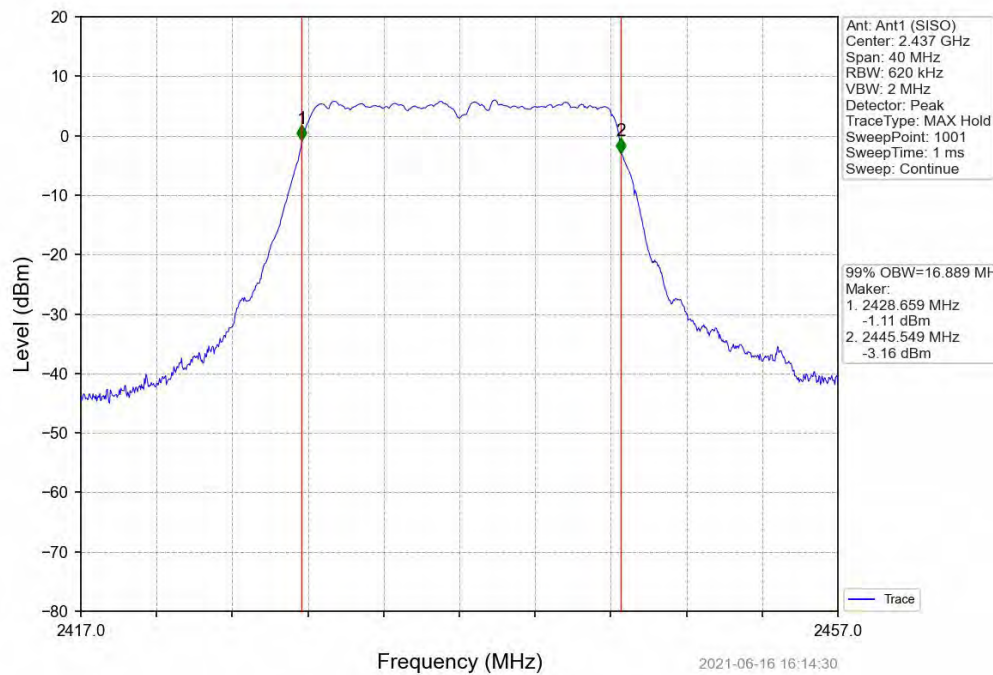
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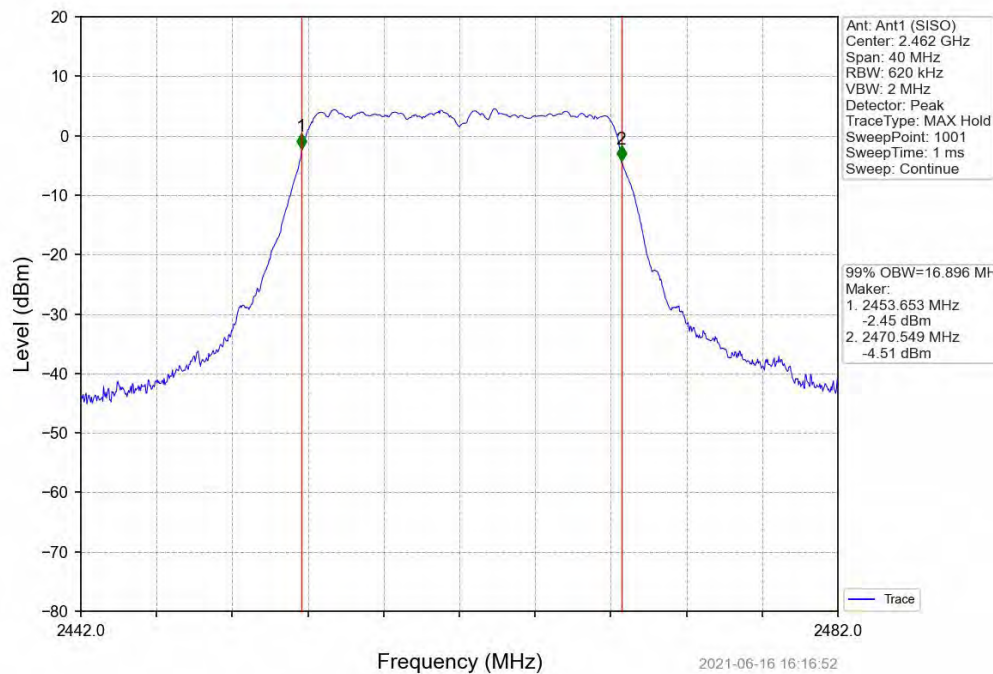
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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



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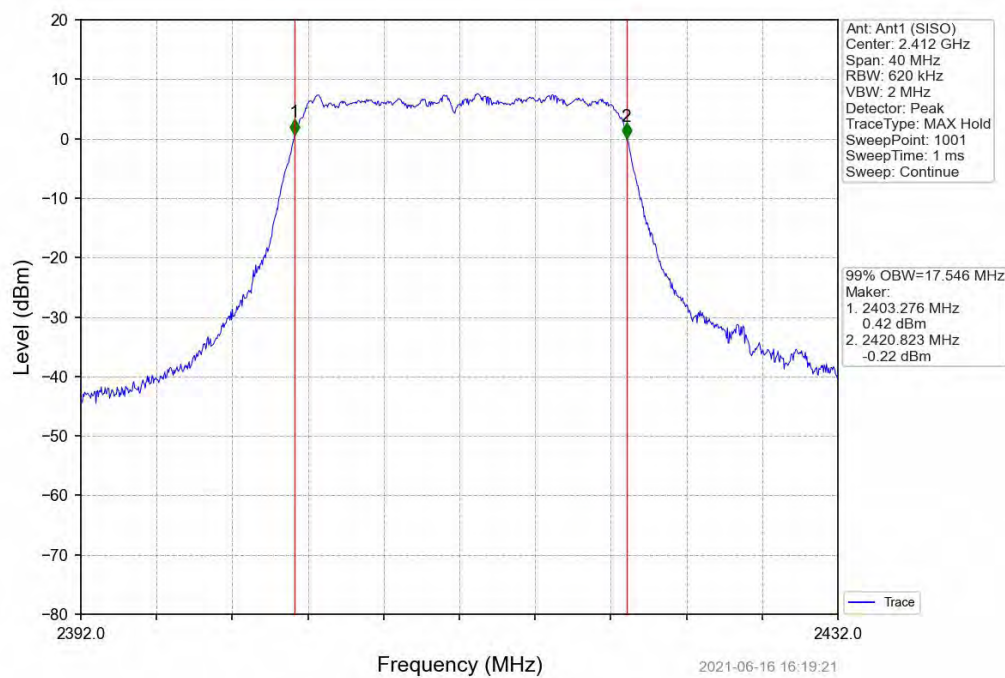


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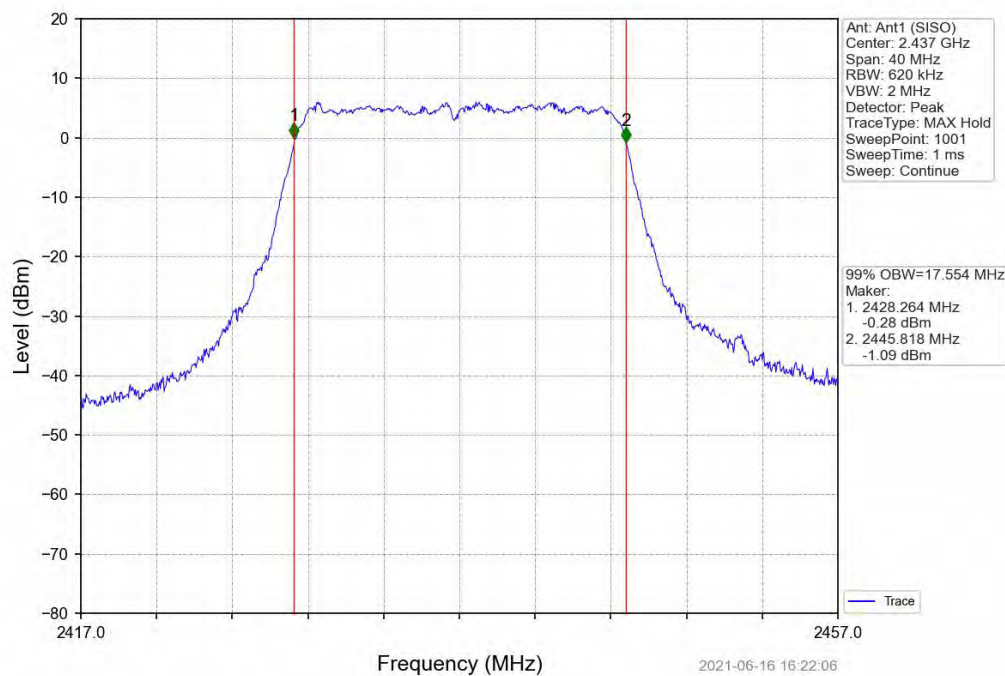
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802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



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



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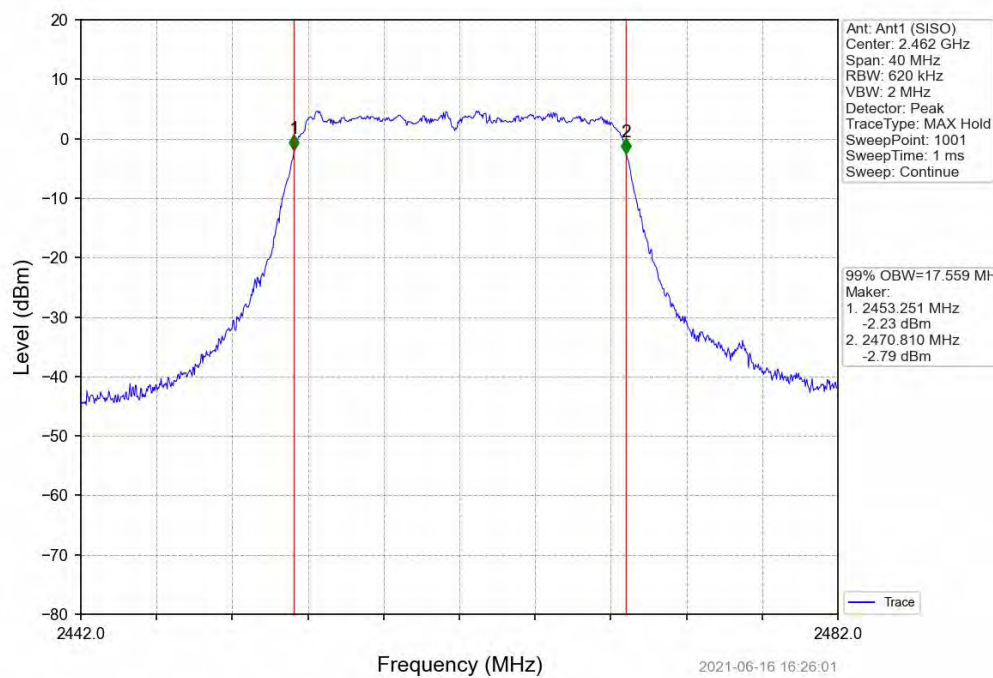


Hotline

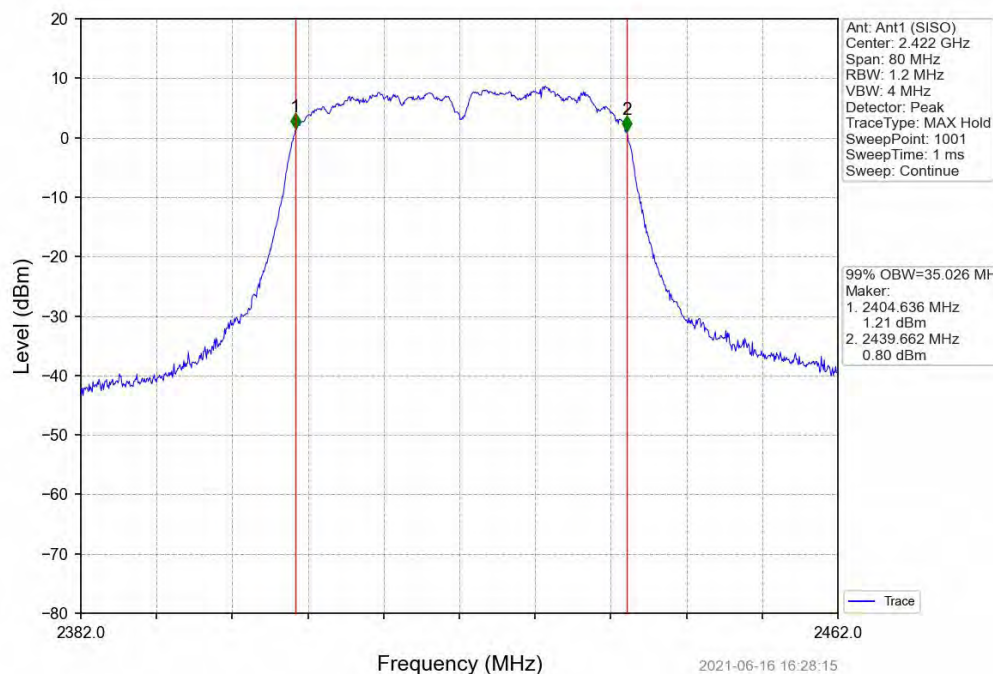
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802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



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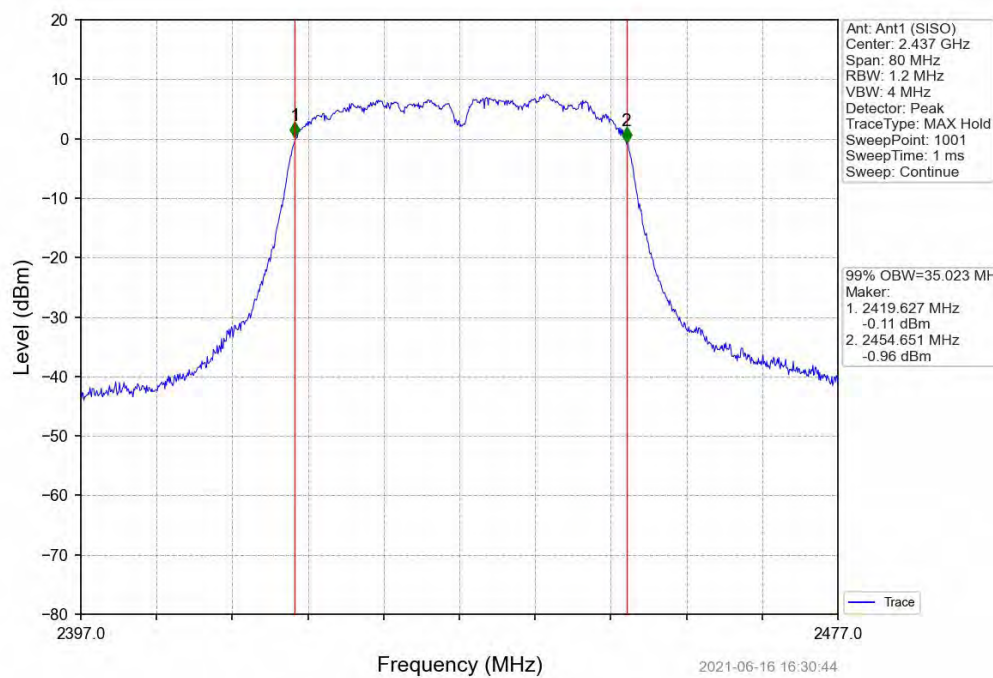


Hotline

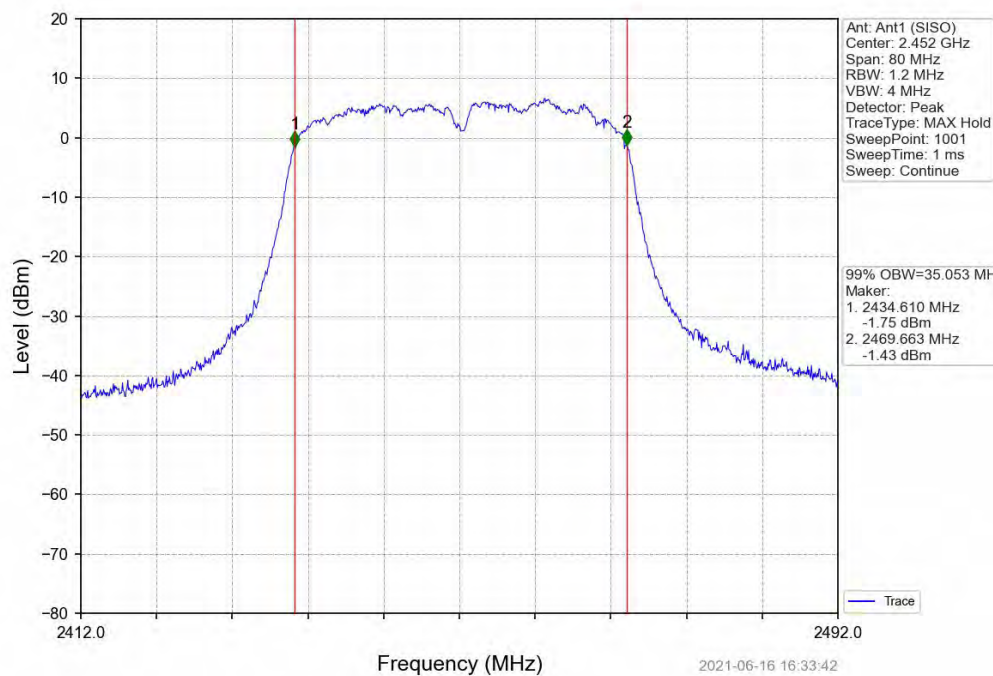
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802.11n(HT40)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



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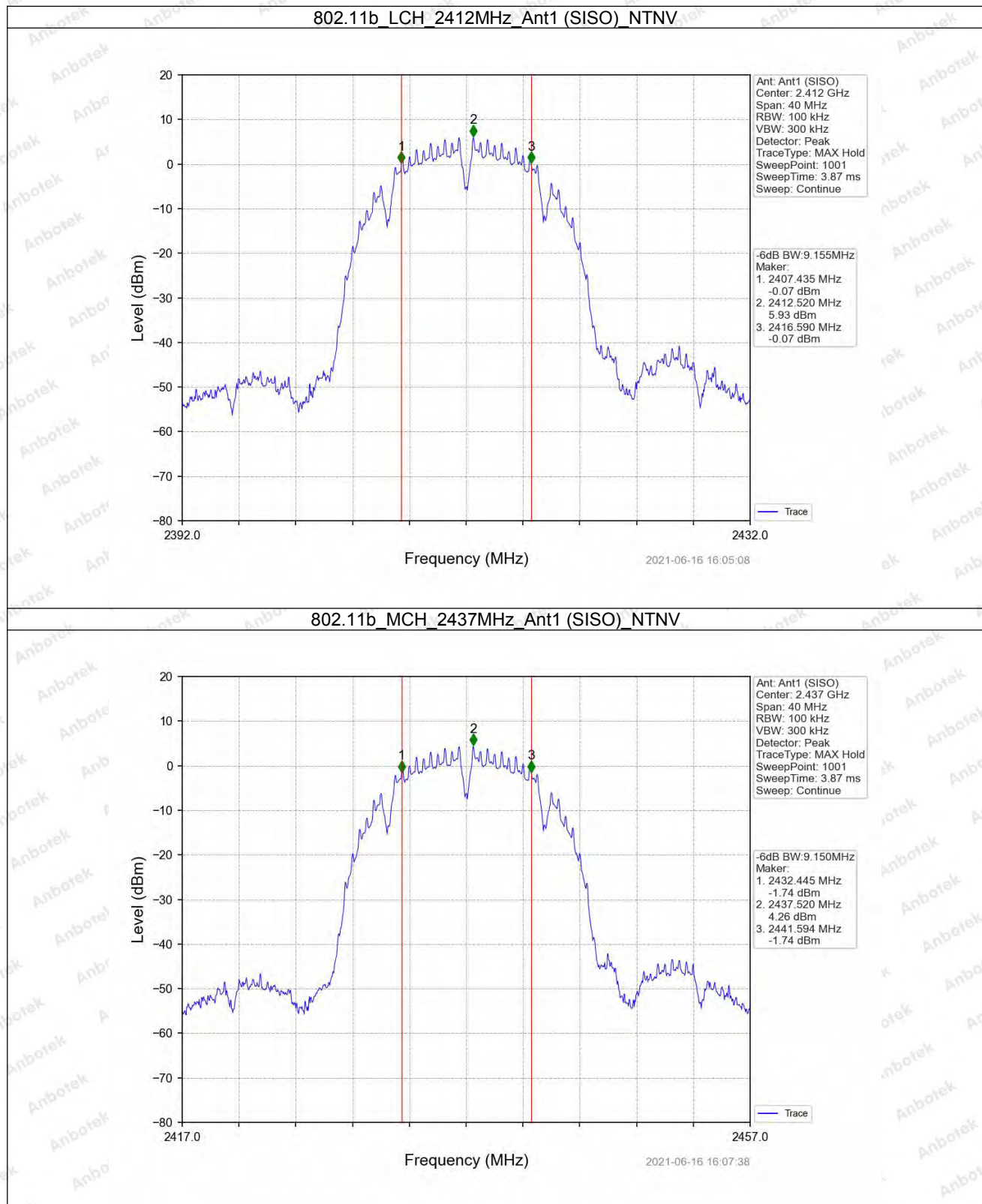
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## 2.2 6dB BW

### 2.2.1 Test Result

| Mode           | TX Type | Frequency (MHz) | RU | RU Pos | Ant | 6dB Bandwidth (MHz) | Limit      | Verdict |
|----------------|---------|-----------------|----|--------|-----|---------------------|------------|---------|
| 802.11b        | SISO    | 2412            | /  | /      | 1   | 9.15                | $\geq 0.5$ | Pass    |
|                |         | 2437            | /  | /      | 1   | 9.15                | $\geq 0.5$ | Pass    |
|                |         | 2462            | /  | /      | 1   | 9.16                | $\geq 0.5$ | Pass    |
| 802.11g        | SISO    | 2412            | /  | /      | 1   | 16.46               | $\geq 0.5$ | Pass    |
|                |         | 2437            | /  | /      | 1   | 16.46               | $\geq 0.5$ | Pass    |
|                |         | 2462            | /  | /      | 1   | 16.47               | $\geq 0.5$ | Pass    |
| 802.11n (HT20) | SISO    | 2412            | /  | /      | 1   | 17.38               | $\geq 0.5$ | Pass    |
|                |         | 2437            | /  | /      | 1   | 17.38               | $\geq 0.5$ | Pass    |
|                |         | 2462            | /  | /      | 1   | 17.37               | $\geq 0.5$ | Pass    |
| 802.11n (HT40) | SISO    | 2422            | /  | /      | 1   | 33.49               | $\geq 0.5$ | Pass    |
|                |         | 2437            | /  | /      | 1   | 33.95               | $\geq 0.5$ | Pass    |
|                |         | 2452            | /  | /      | 1   | 33.35               | $\geq 0.5$ | Pass    |

## 2.2.2 Test Graph



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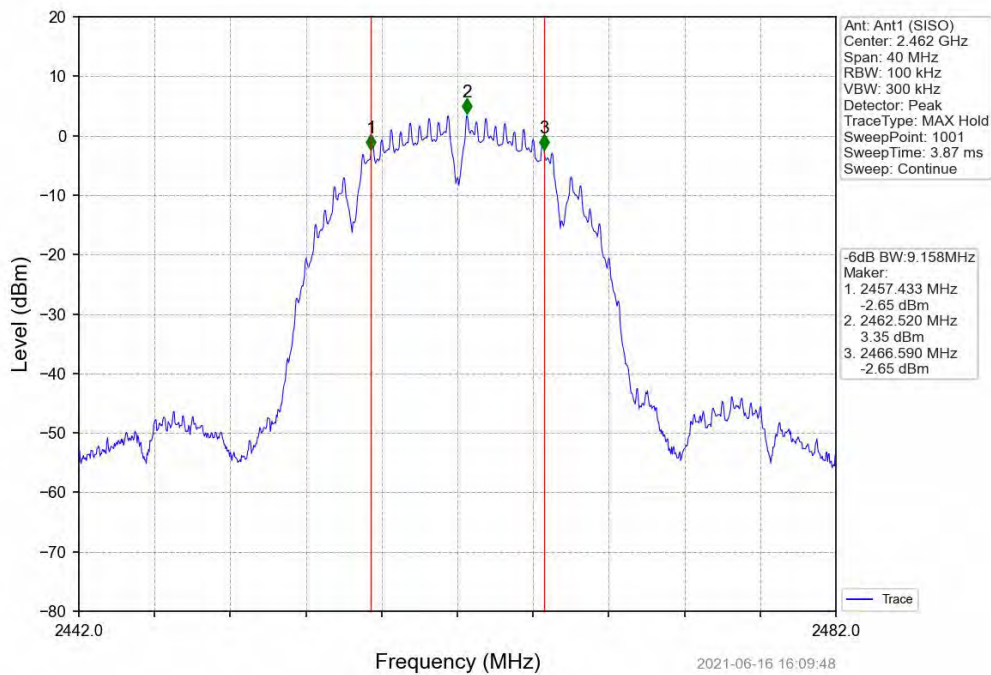


Hotline

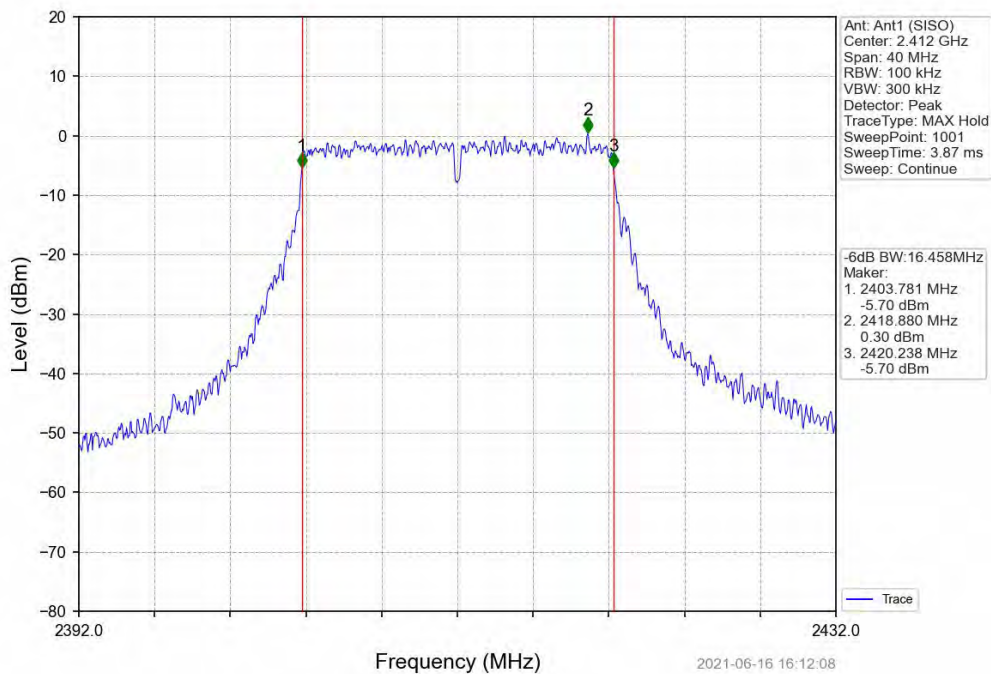
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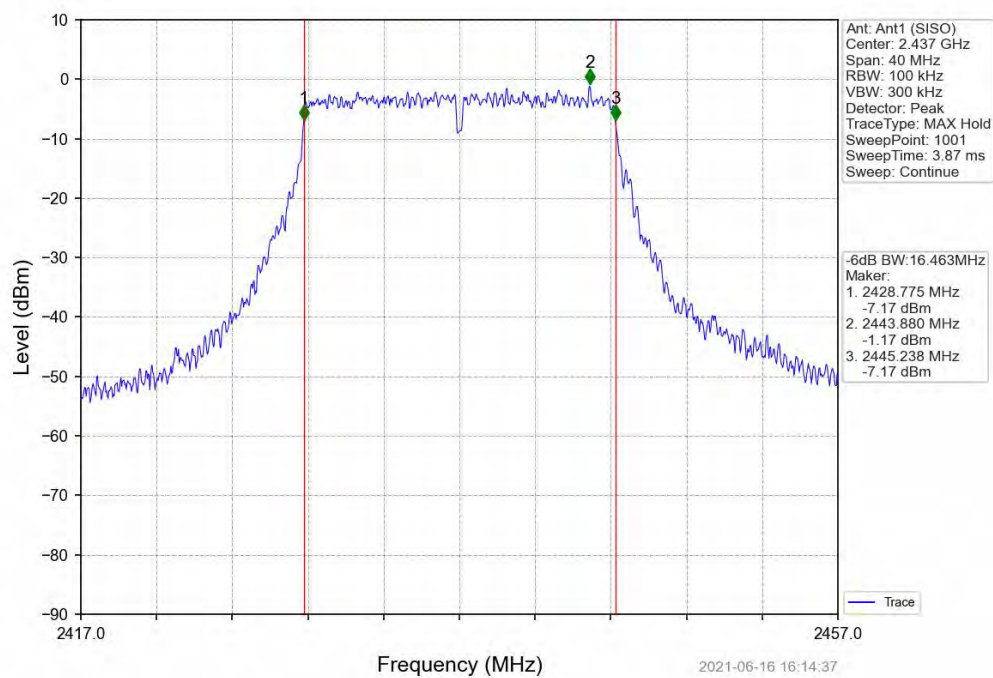
802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



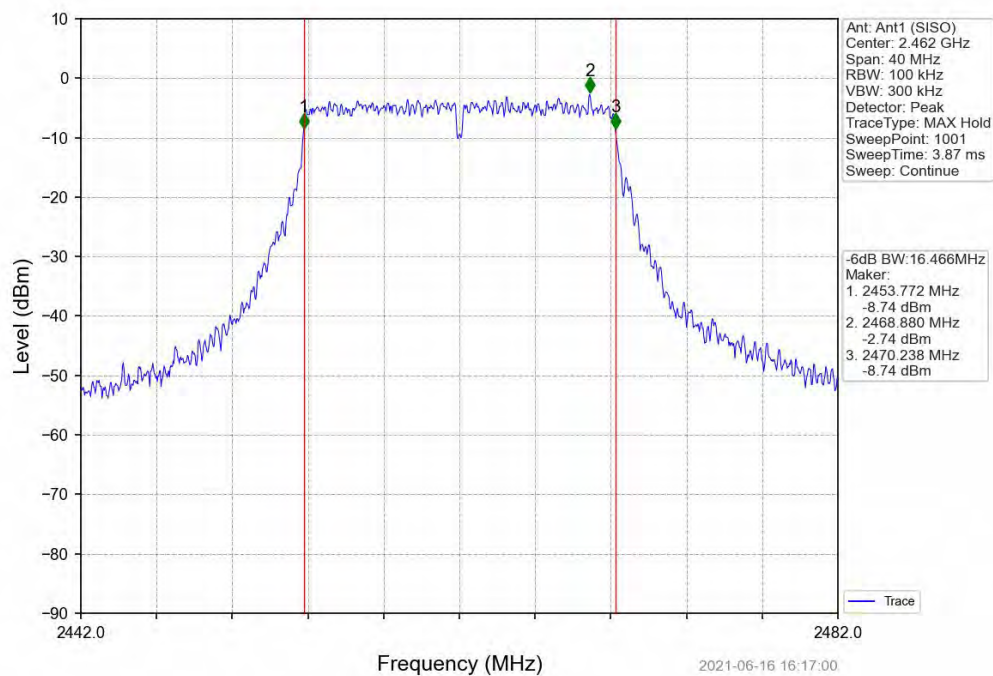
802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



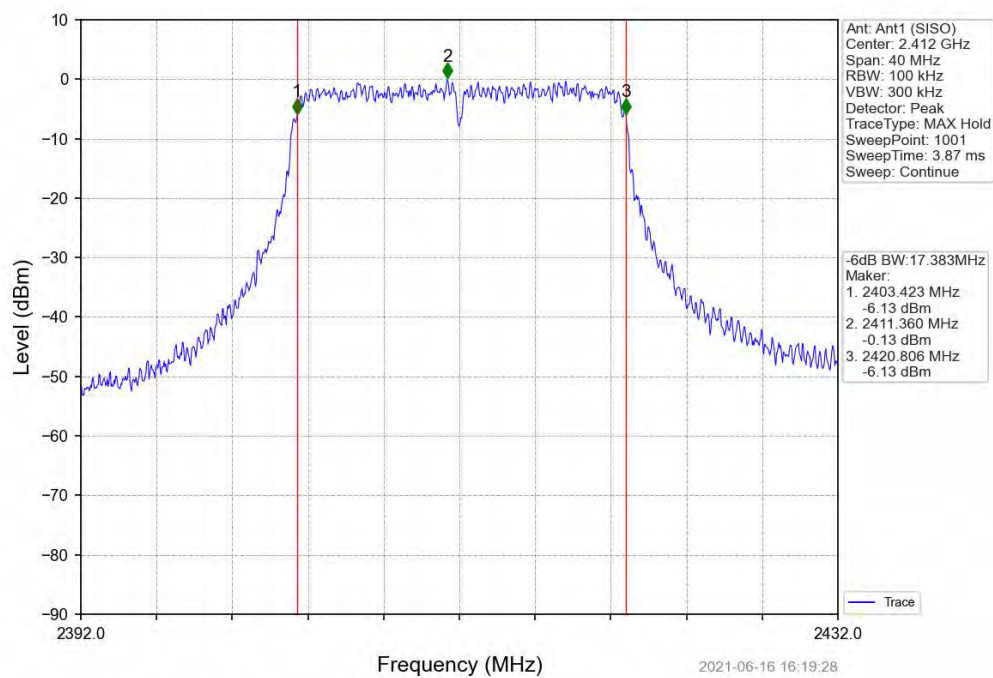
802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



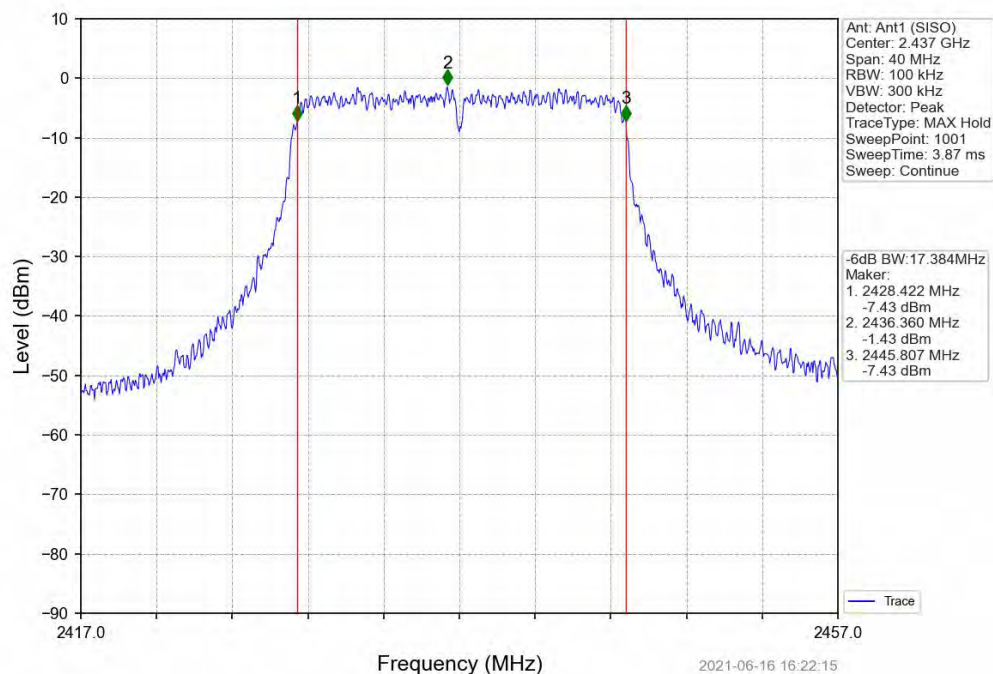
802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



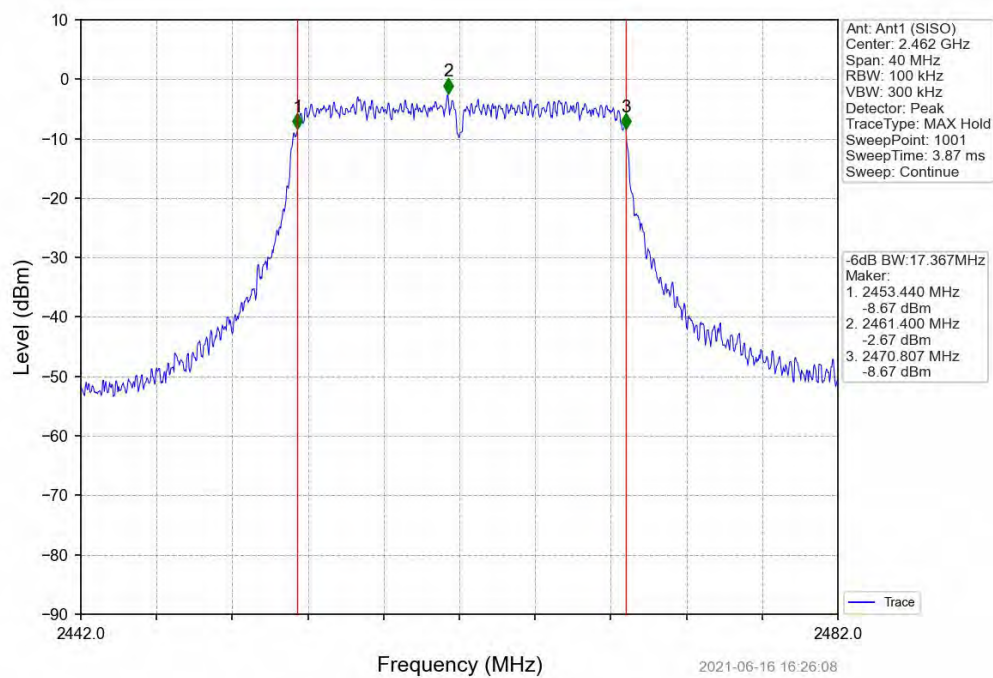
802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



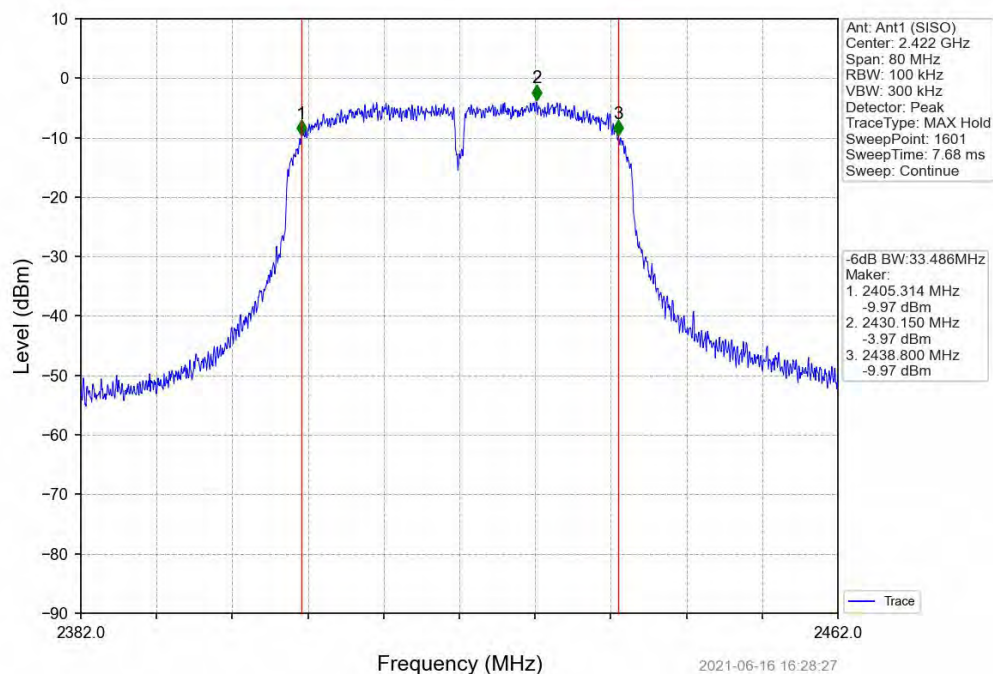
802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



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



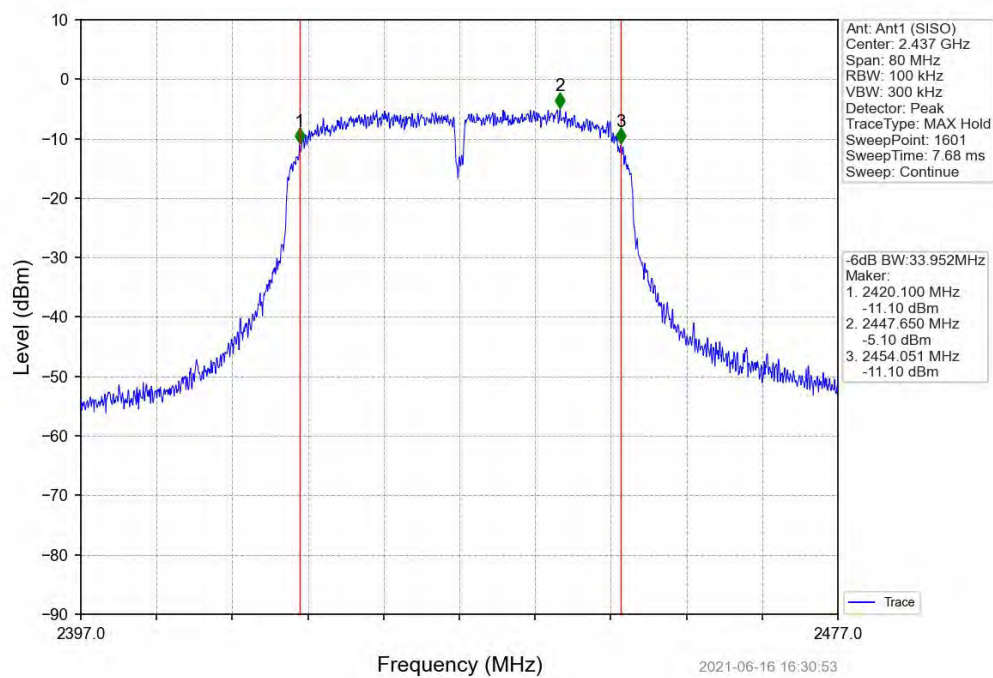
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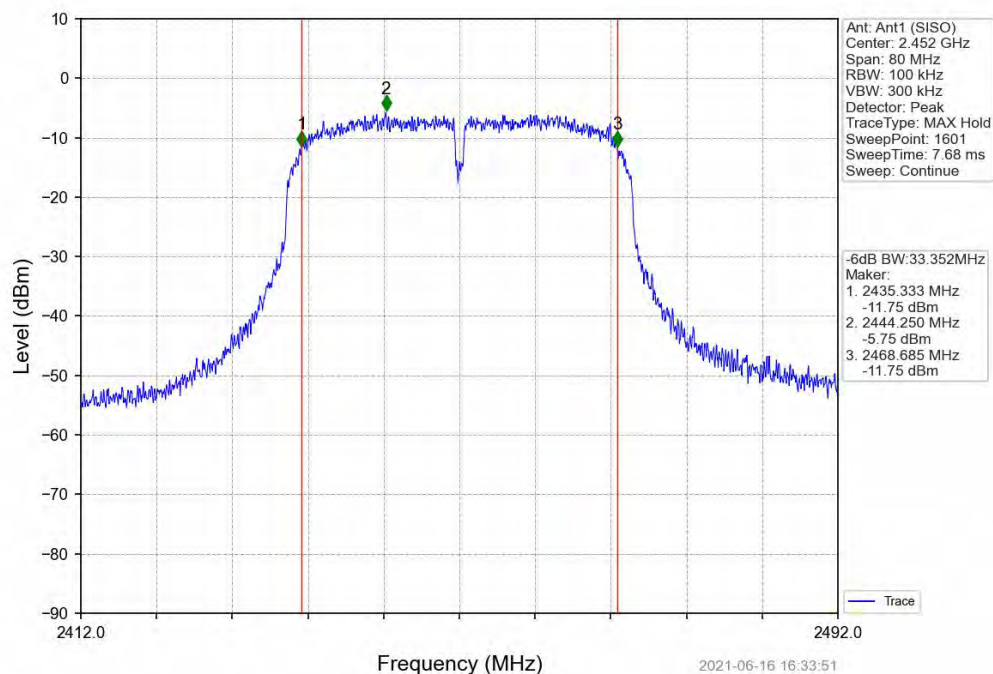
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802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTNV



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### 3. Maximum Conducted Output Power

#### 3.1 Power

##### 3.1.1 Test Result

| Mode           | TX Type | Frequency (MHz) | RU | RU Pos | Measured Peak Output Power (dBm) | Limit (dBm) | Verdict |
|----------------|---------|-----------------|----|--------|----------------------------------|-------------|---------|
|                |         |                 |    |        | Ant1                             |             |         |
| 802.11b        | SISO    | 2412            | /  | /      | 16.77                            | <=30        | Pass    |
|                |         | 2437            | /  | /      | 15.26                            | <=30        | Pass    |
|                |         | 2462            | /  | /      | 14.28                            | <=30        | Pass    |
| 802.11g        | SISO    | 2412            | /  | /      | 20.77                            | <=30        | Pass    |
|                |         | 2437            | /  | /      | 19.39                            | <=30        | Pass    |
|                |         | 2462            | /  | /      | 17.91                            | <=30        | Pass    |
| 802.11n (HT20) | SISO    | 2412            | /  | /      | 20.81                            | <=30        | Pass    |
|                |         | 2437            | /  | /      | 19.42                            | <=30        | Pass    |
|                |         | 2462            | /  | /      | 17.99                            | <=30        | Pass    |
| 802.11n (HT40) | SISO    | 2422            | /  | /      | 20.19                            | <=30        | Pass    |
|                |         | 2437            | /  | /      | 19.21                            | <=30        | Pass    |
|                |         | 2452            | /  | /      | 18.29                            | <=30        | Pass    |

Note1: Antenna Gain: 1: 1.86dBi;

### 4. Maximum Power Spectral Density

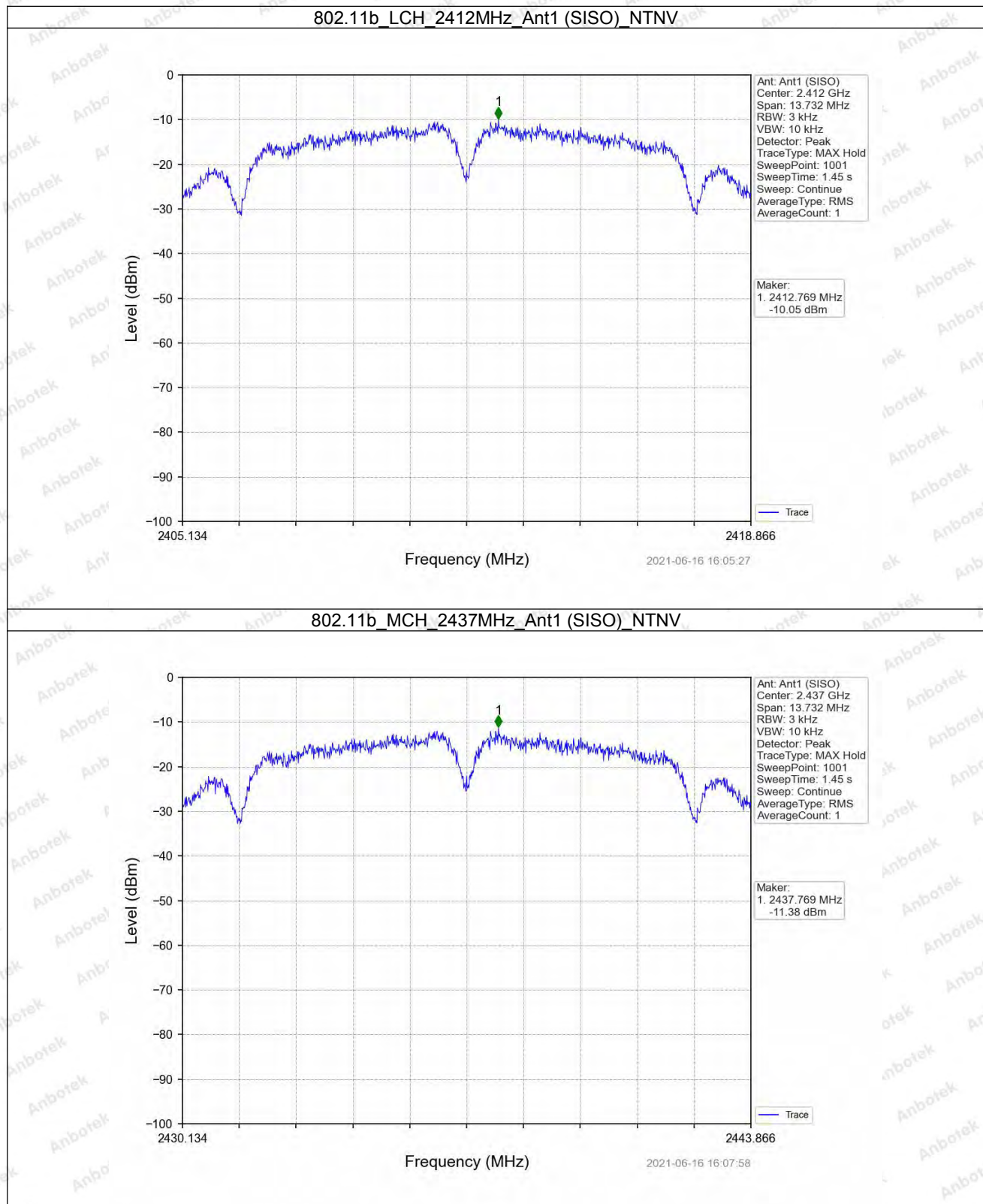
#### 4.1 PSD

##### 4.1.1 Test Result

| Mode           | TX Type | Frequency (MHz) | RU | RU Pos | Maximum PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|----------------|---------|-----------------|----|--------|------------------------|------------------|---------|
|                |         |                 |    |        | Ant1                   |                  |         |
| 802.11b        | SISO    | 2412            | /  | /      | -10.05                 | <=8              | Pass    |
|                |         | 2437            | /  | /      | -11.38                 | <=8              | Pass    |
|                |         | 2462            | /  | /      | -12.58                 | <=8              | Pass    |
| 802.11g        | SISO    | 2412            | /  | /      | -14.89                 | <=8              | Pass    |
|                |         | 2437            | /  | /      | -16.17                 | <=8              | Pass    |
|                |         | 2462            | /  | /      | -18.10                 | <=8              | Pass    |
| 802.11n (HT20) | SISO    | 2412            | /  | /      | -14.69                 | <=8              | Pass    |
|                |         | 2437            | /  | /      | -16.18                 | <=8              | Pass    |
|                |         | 2462            | /  | /      | -17.60                 | <=8              | Pass    |
| 802.11n (HT40) | SISO    | 2422            | /  | /      | -17.03                 | <=8              | Pass    |
|                |         | 2437            | /  | /      | -17.41                 | <=8              | Pass    |
|                |         | 2452            | /  | /      | -18.20                 | <=8              | Pass    |

Note1: Antenna Gain: 1: 1.86dBi;

## 4.1.2 Test Graph



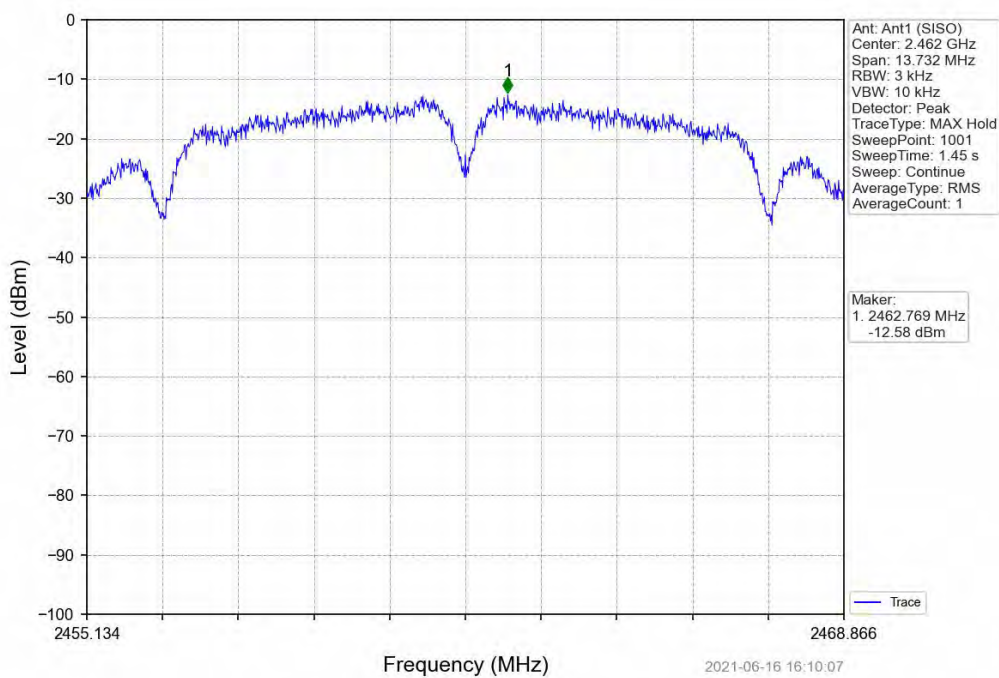
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Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

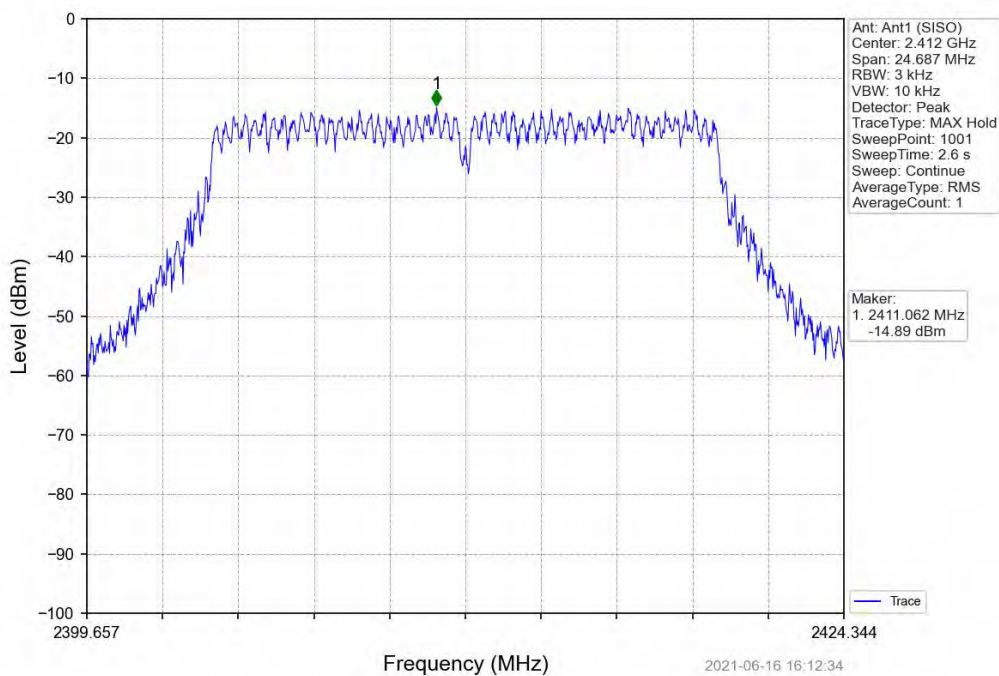
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802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV

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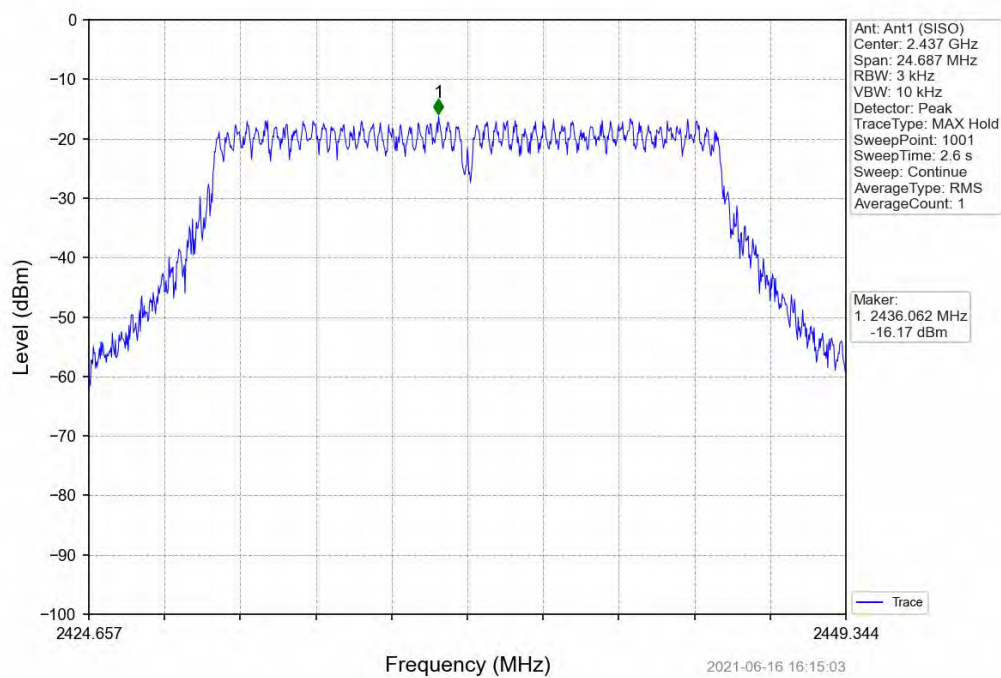


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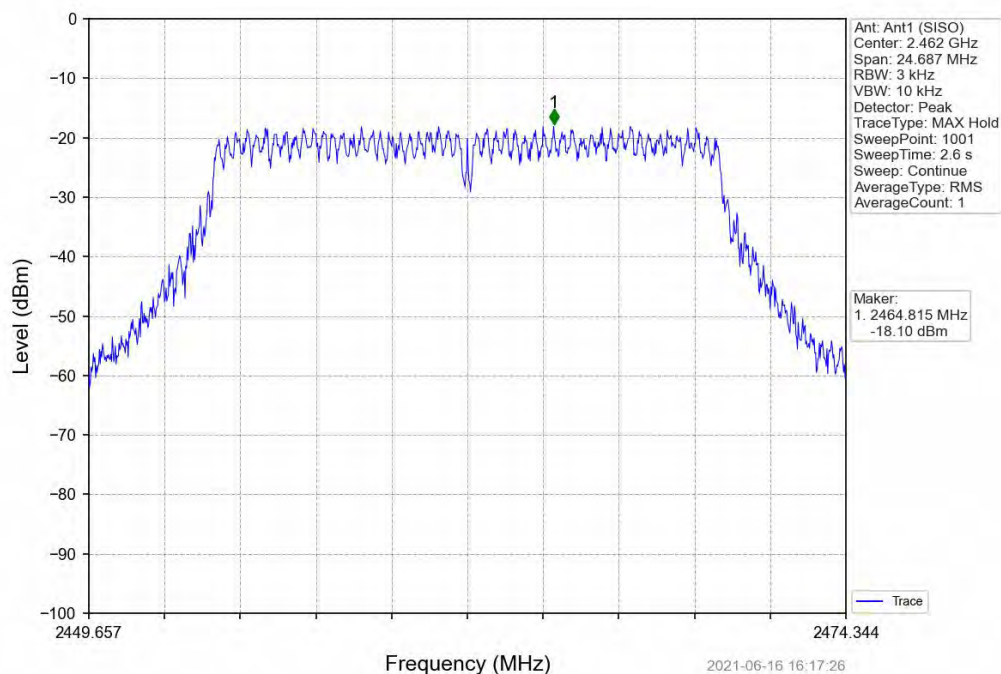
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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



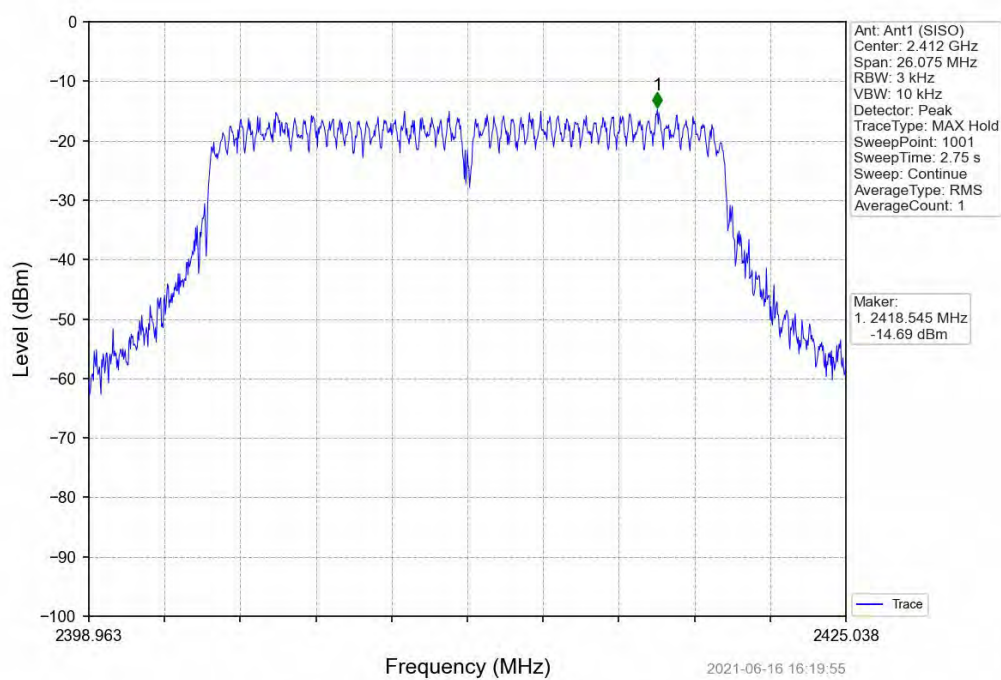
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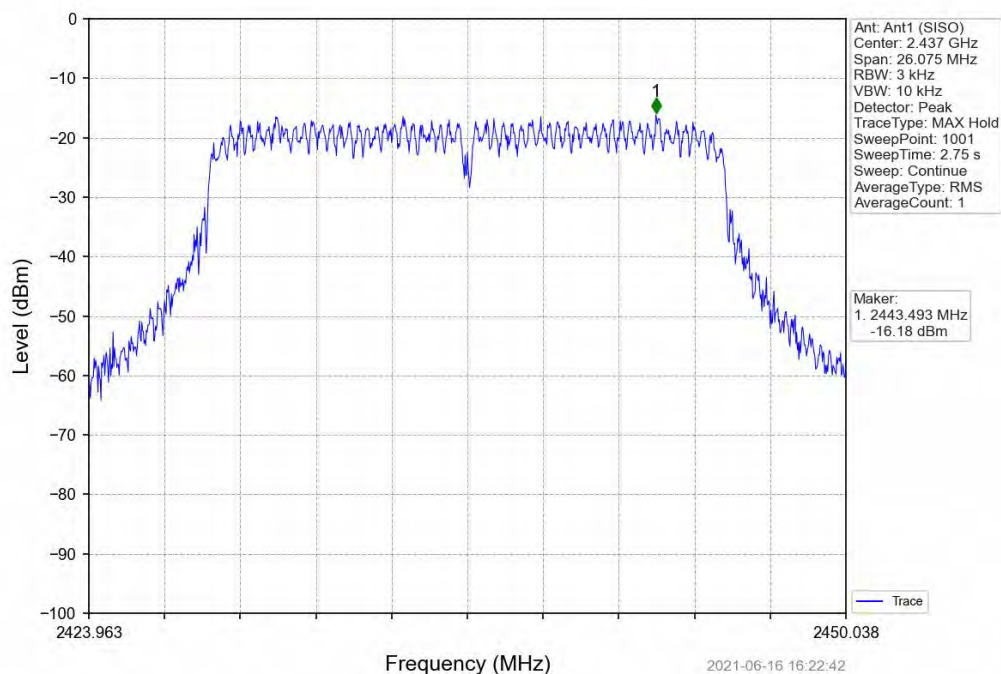
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802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



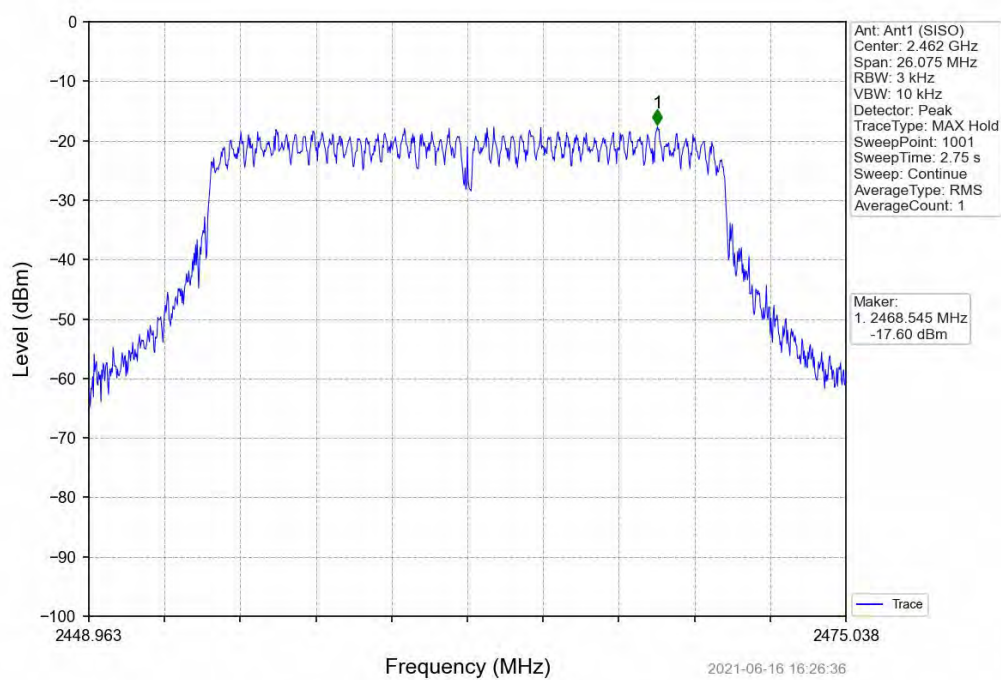
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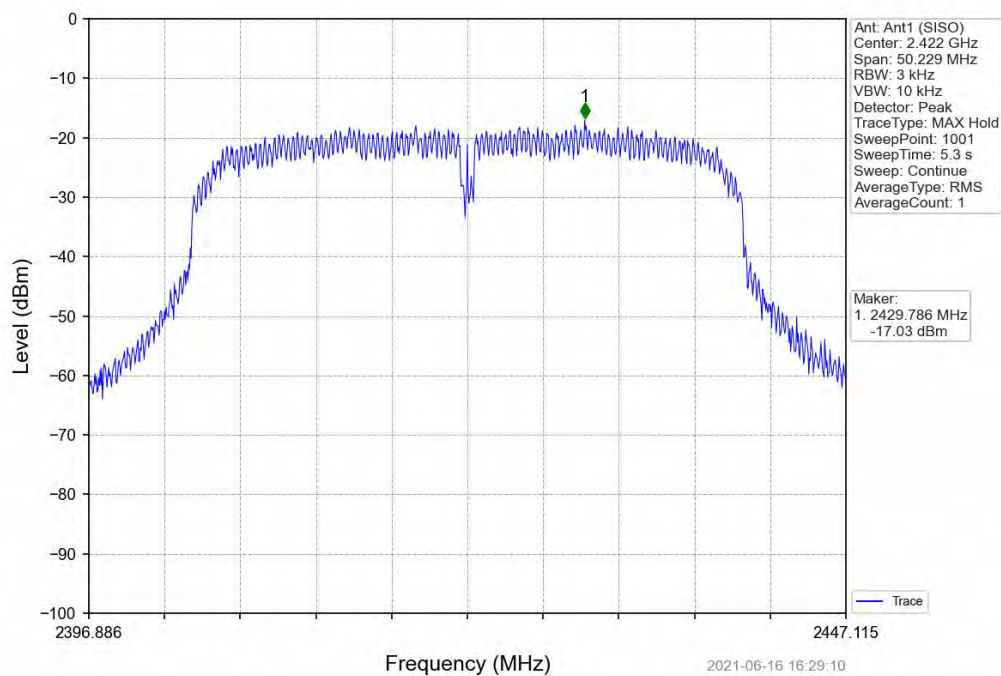
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802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV

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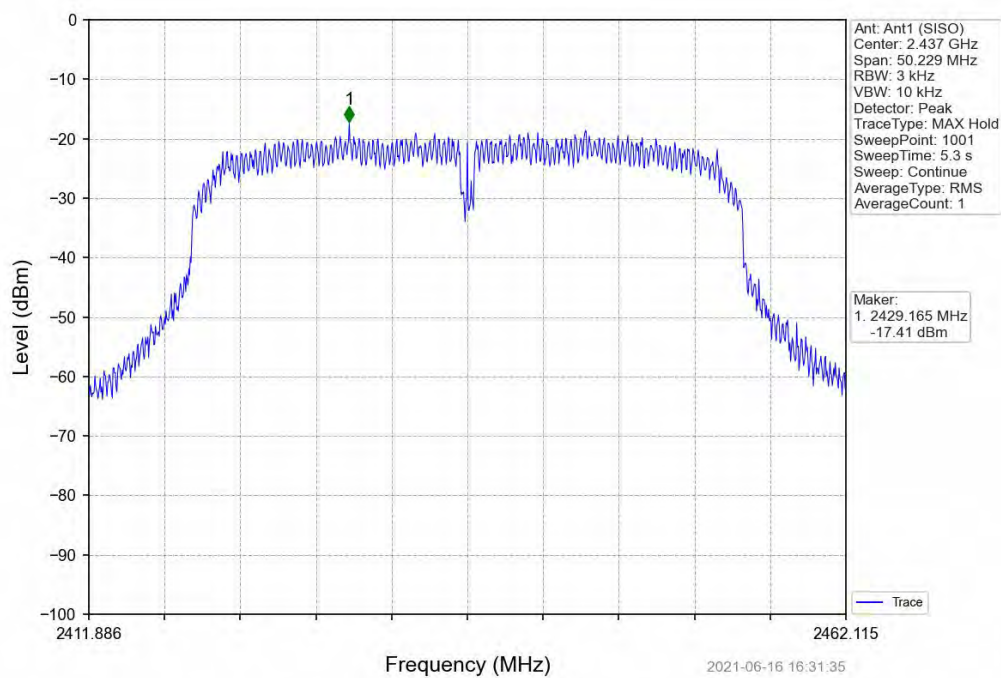


Hotline

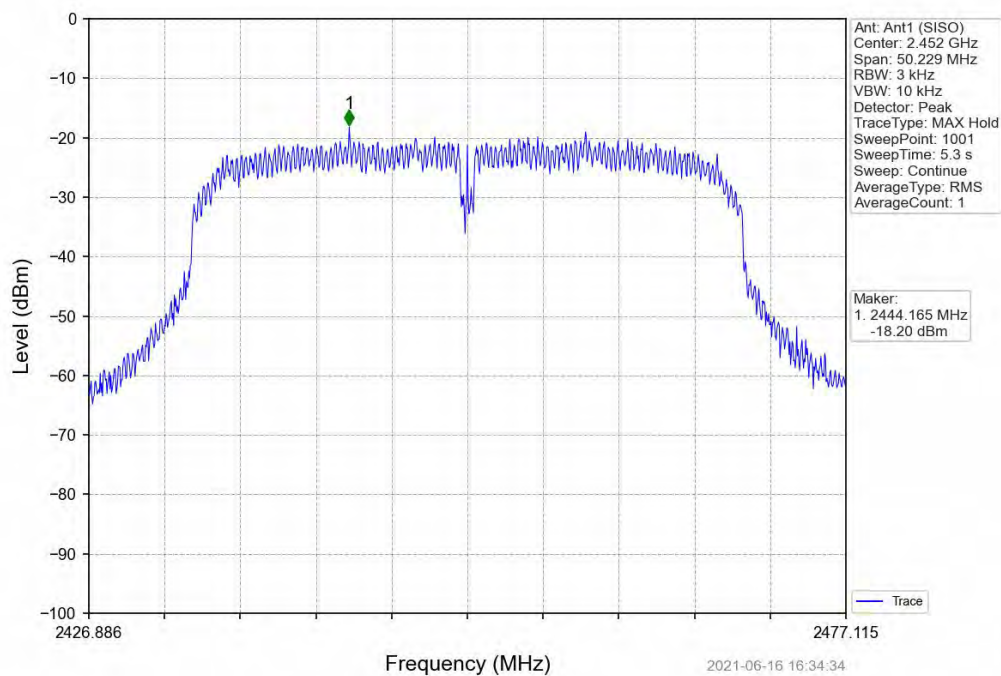
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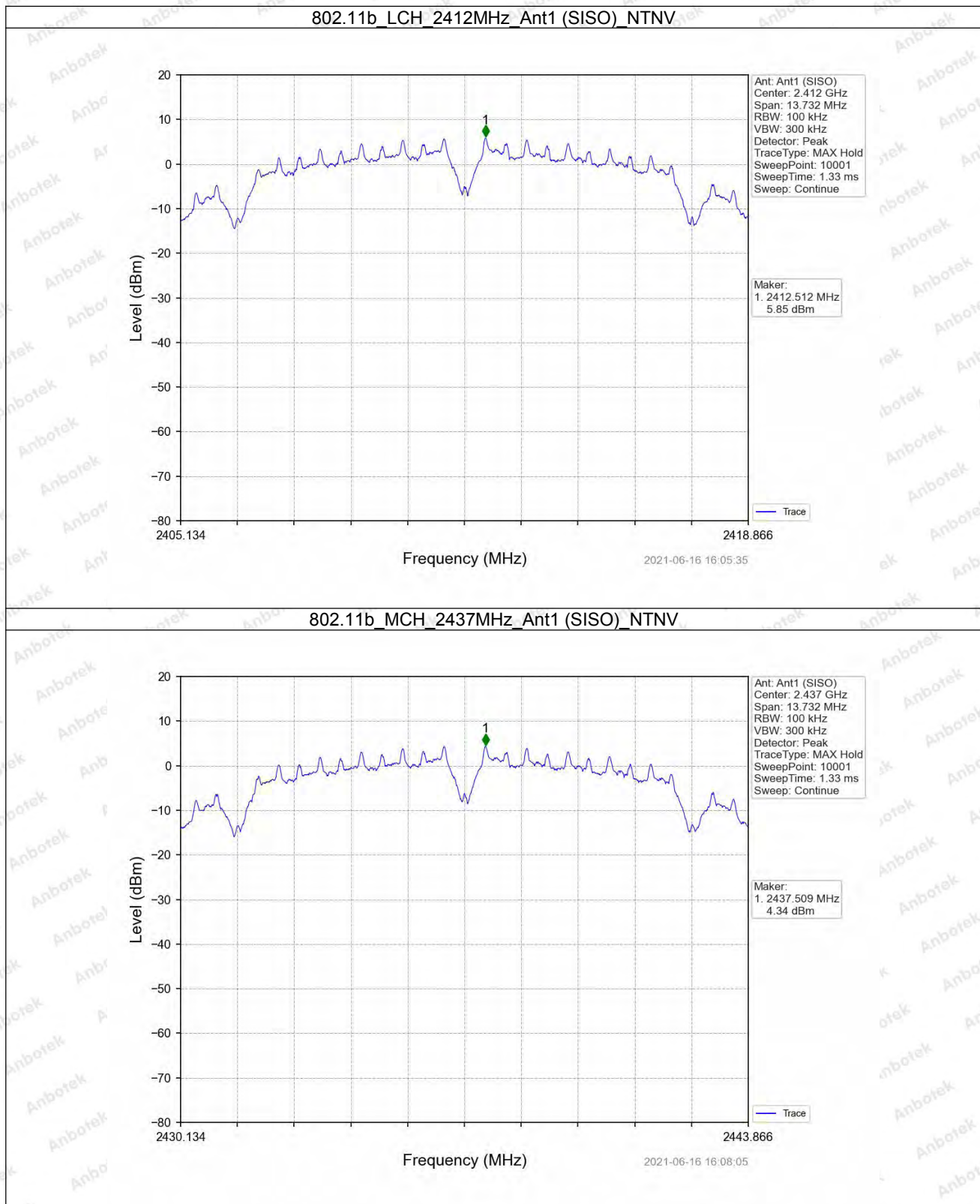
## 5. Unwanted Emissions In Non-restricted Frequency Bands

### 5.1 Ref

#### 5.1.1 Test Result

| Mode                                                                                                                                            | TX Type | Frequency (MHz) | RU | RU Pos | Ant | Level of Reference (dBm) | Limit (dBm) | Verdict |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------|----|--------|-----|--------------------------|-------------|---------|
| 802.11b                                                                                                                                         | SISO    | 2412            | /  | /      | 1   | 5.85                     | /           | /       |
|                                                                                                                                                 |         | 2437            | /  | /      | 1   | 4.34                     | /           | /       |
|                                                                                                                                                 |         | 2462            | /  | /      | 1   | 3.33                     | /           | /       |
| 802.11g                                                                                                                                         | SISO    | 2412            | /  | /      | 1   | 0.19                     | /           | /       |
|                                                                                                                                                 |         | 2437            | /  | /      | 1   | -1.28                    | /           | /       |
|                                                                                                                                                 |         | 2462            | /  | /      | 1   | -2.84                    | /           | /       |
| 802.11n (HT20)                                                                                                                                  | SISO    | 2412            | /  | /      | 1   | -0.15                    | /           | /       |
|                                                                                                                                                 |         | 2437            | /  | /      | 1   | -1.30                    | /           | /       |
|                                                                                                                                                 |         | 2462            | /  | /      | 1   | -2.64                    | /           | /       |
| 802.11n (HT40)                                                                                                                                  | SISO    | 2422            | /  | /      | 1   | -4.15                    | /           | /       |
|                                                                                                                                                 |         | 2437            | /  | /      | 1   | -4.98                    | /           | /       |
|                                                                                                                                                 |         | 2452            | /  | /      | 1   | -5.99                    | /           | /       |
| Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level. |         |                 |    |        |     |                          |             |         |
| Note2: Only for Report Use                                                                                                                      |         |                 |    |        |     |                          |             |         |

## 5.1.2 Test Graph



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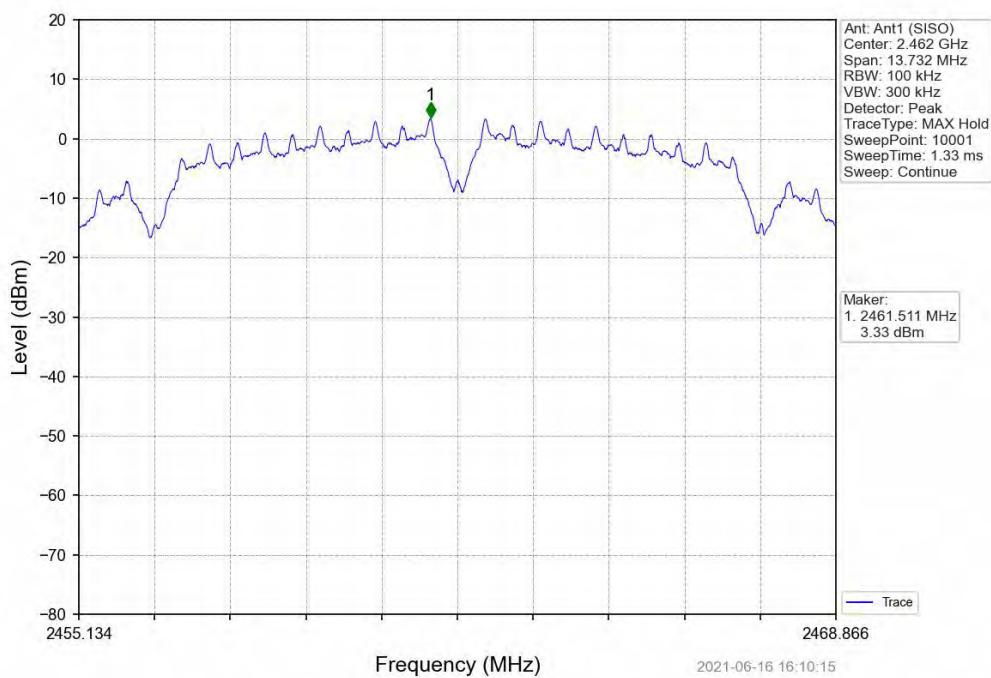


Hotline

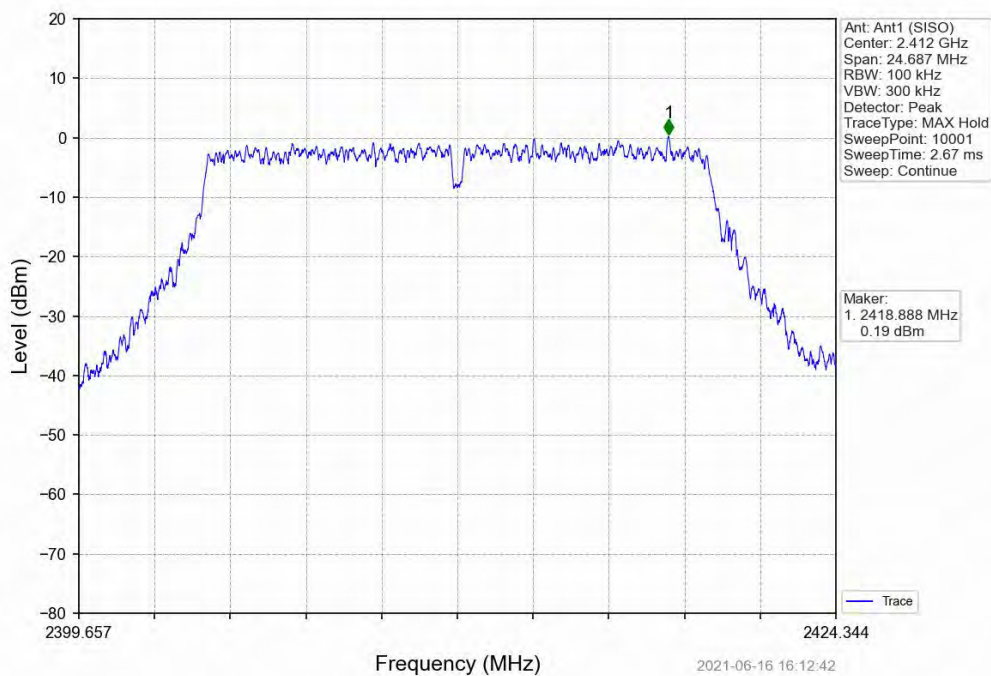
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802.11g\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



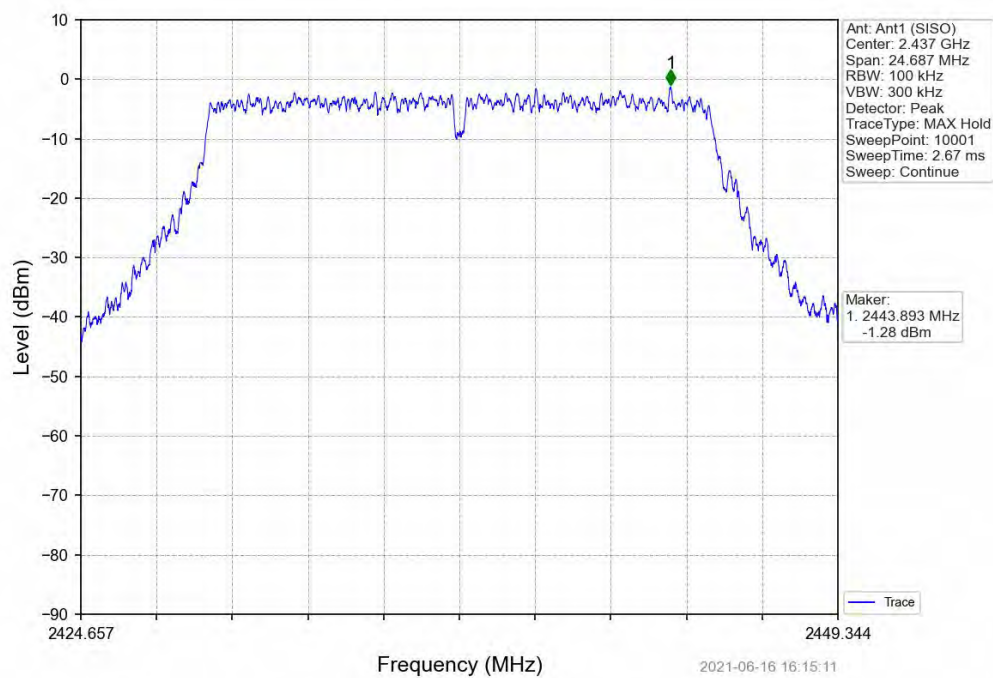
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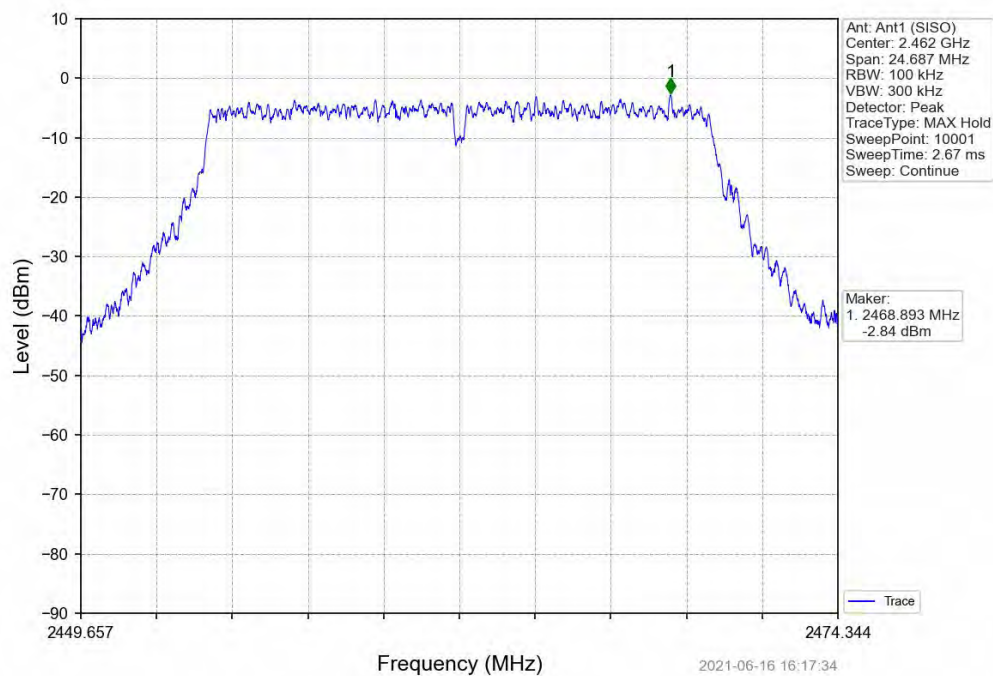
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802.11g\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



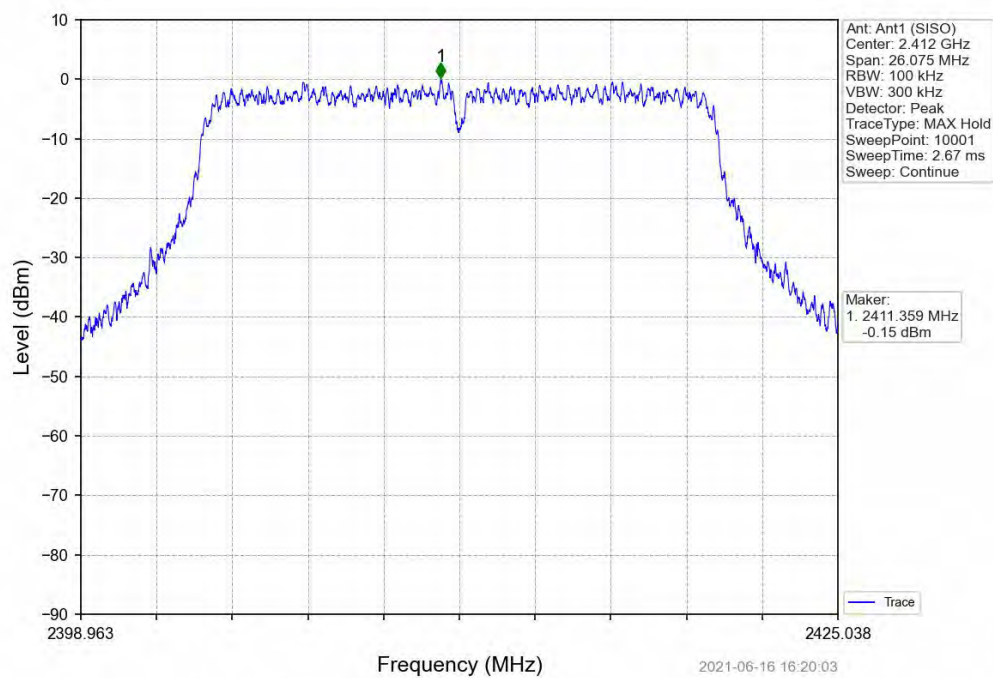
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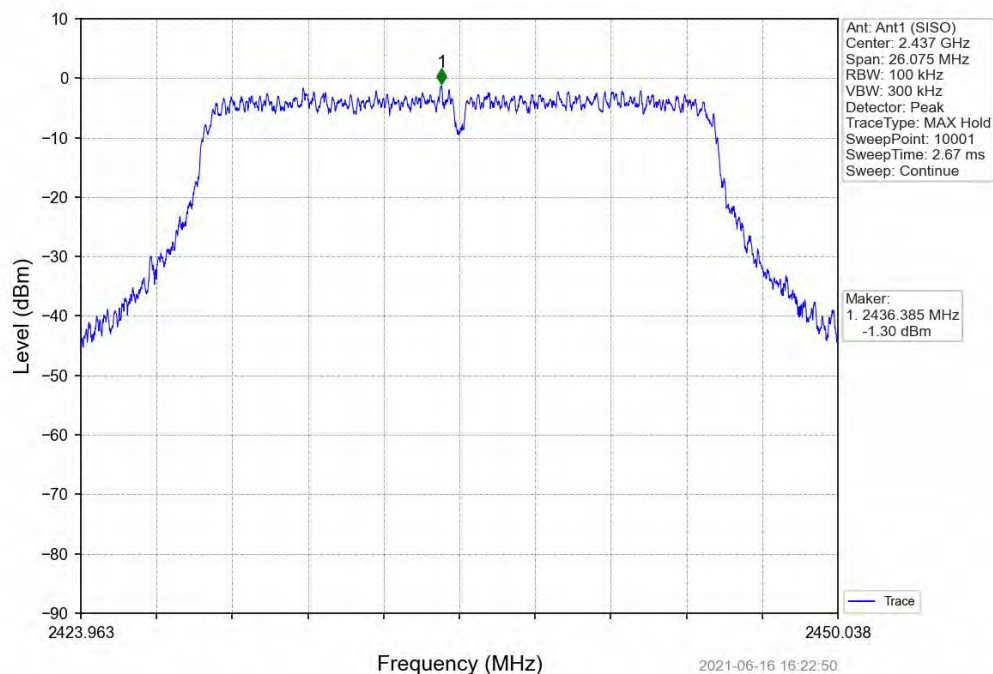
Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

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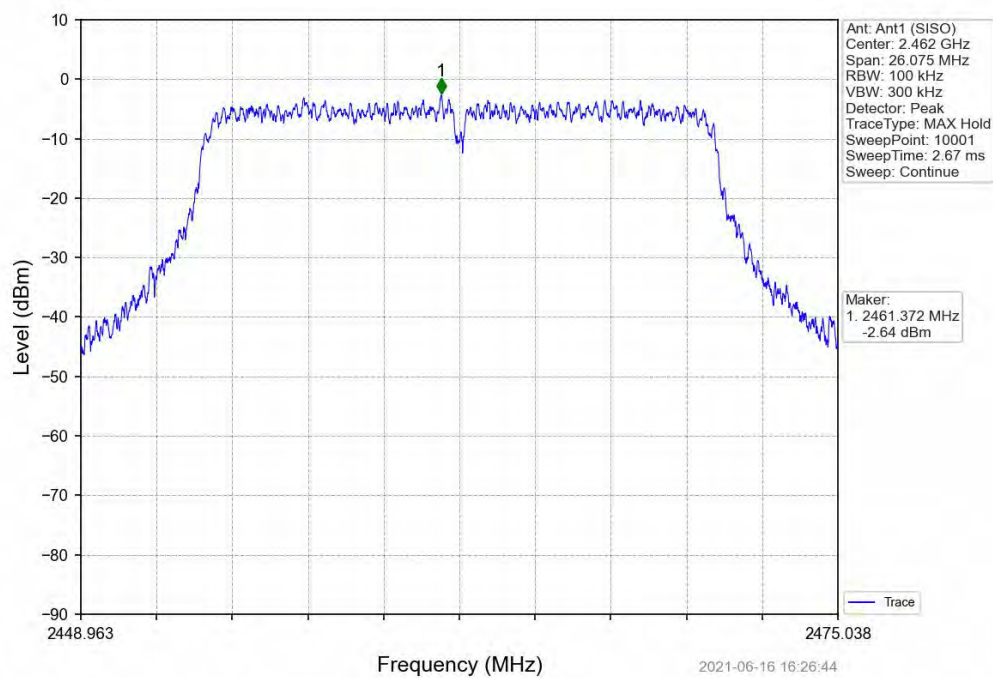
802.11n(HT20)\_LCH\_2412MHz\_Ant1 (SISO)\_NTNV



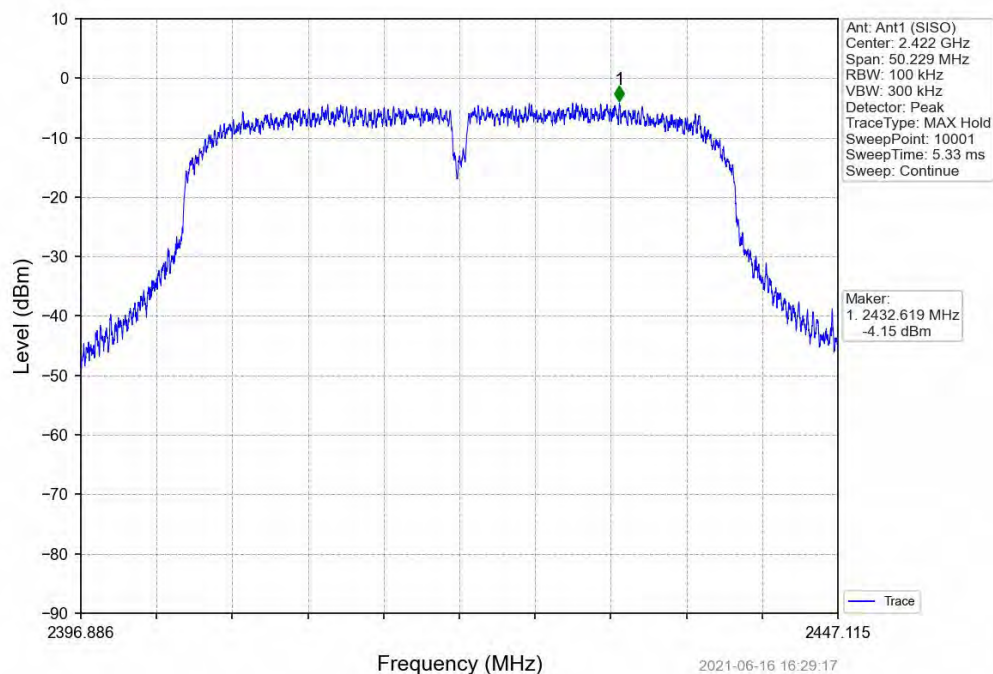
802.11n(HT20)\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



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



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



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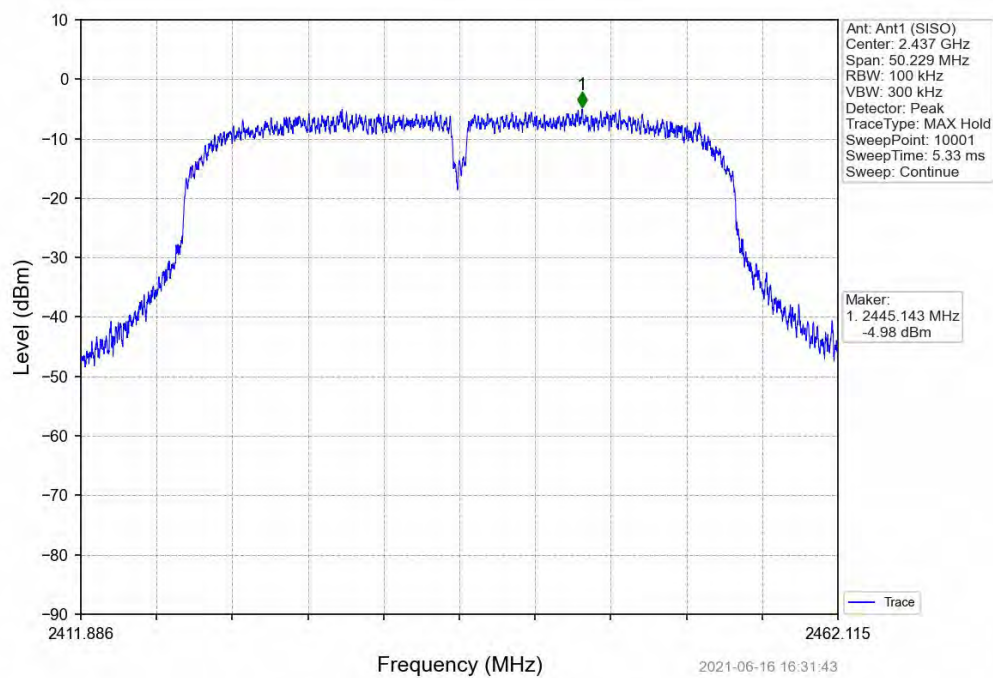


Hotline

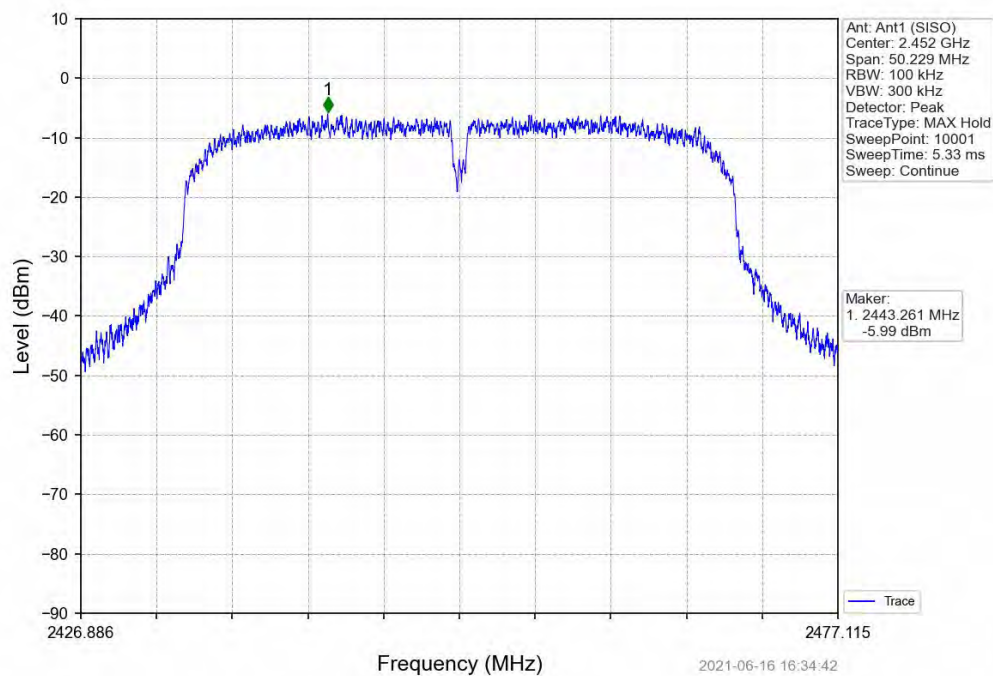
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## 5.2 CSE

### 5.2.1 Test Result

| Mode                                                                                                                                            | TX Type | Frequency (MHz) | RU | RU Pos | Ant | Level of Reference (dBm) | Limit (dBm)         | Verdict |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------|----|--------|-----|--------------------------|---------------------|---------|
| 802.11b                                                                                                                                         | SISO    | 2412            | /  | /      | 1   | Refer To Test Graph      | Refer To Test Graph | Note2   |
|                                                                                                                                                 |         | 2437            | /  | /      | 1   | Refer To Test Graph      | Refer To Test Graph | Note2   |
|                                                                                                                                                 |         | 2462            | /  | /      | 1   | Refer To Test Graph      | Refer To Test Graph | Note2   |
| 802.11g                                                                                                                                         | SISO    | 2412            | /  | /      | 1   | Refer To Test Graph      | Refer To Test Graph | Note2   |
|                                                                                                                                                 |         | 2437            | /  | /      | 1   | Refer To Test Graph      | Refer To Test Graph | Note2   |
|                                                                                                                                                 |         | 2462            | /  | /      | 1   | Refer To Test Graph      | Refer To Test Graph | Note2   |
| 802.11n (HT20)                                                                                                                                  | SISO    | 2412            | /  | /      | 1   | Refer To Test Graph      | Refer To Test Graph | Note2   |
|                                                                                                                                                 |         | 2437            | /  | /      | 1   | Refer To Test Graph      | Refer To Test Graph | Note2   |
|                                                                                                                                                 |         | 2462            | /  | /      | 1   | Refer To Test Graph      | Refer To Test Graph | Note2   |
| 802.11n (HT40)                                                                                                                                  | SISO    | 2422            | /  | /      | 1   | Refer To Test Graph      | Refer To Test Graph | Note2   |
|                                                                                                                                                 |         | 2437            | /  | /      | 1   | Refer To Test Graph      | Refer To Test Graph | Note2   |
|                                                                                                                                                 |         | 2452            | /  | /      | 1   | Refer To Test Graph      | Refer To Test Graph | Note2   |
| Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level. |         |                 |    |        |     |                          |                     |         |
| Note2: Only for Report Use                                                                                                                      |         |                 |    |        |     |                          |                     |         |

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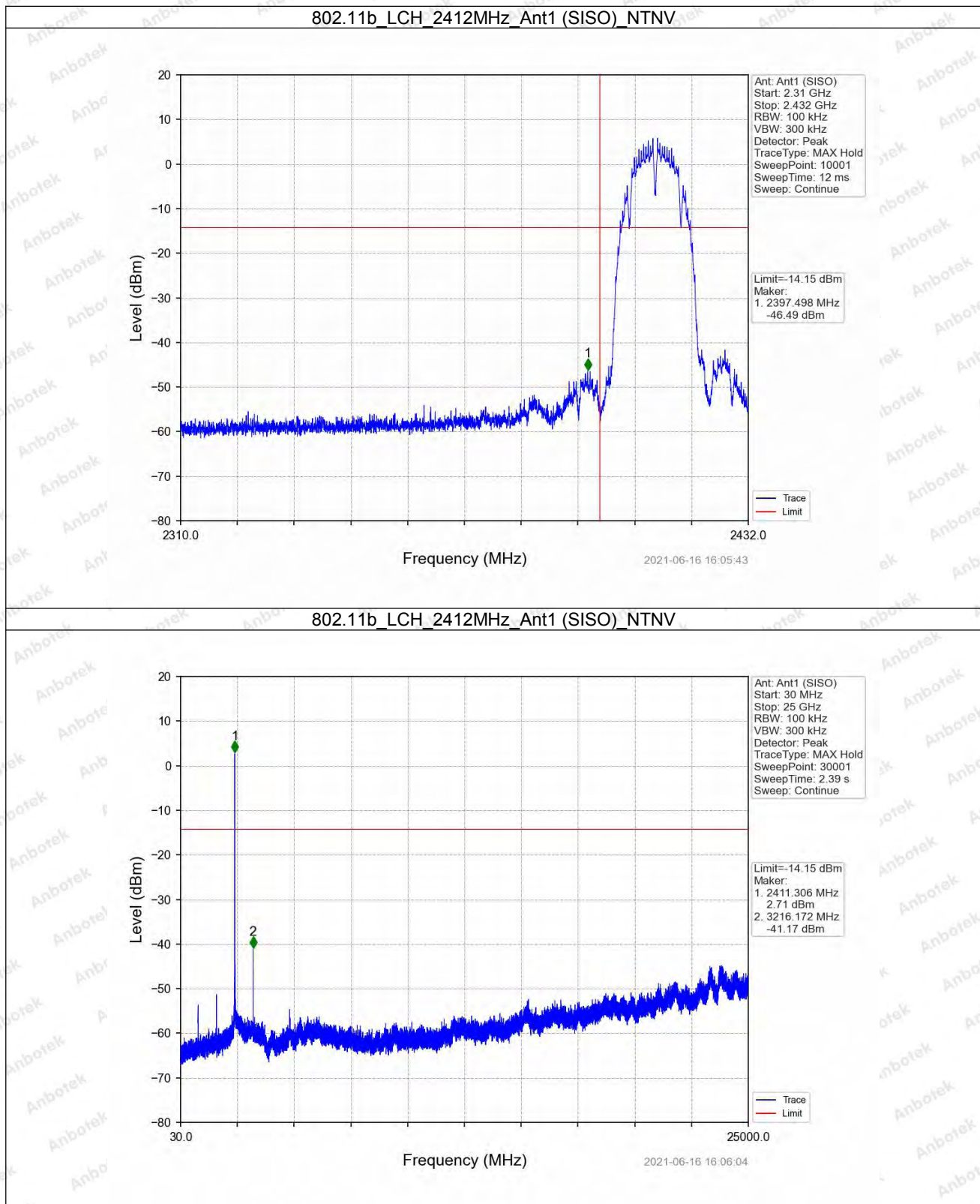
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## 5.2.2 Test Graph



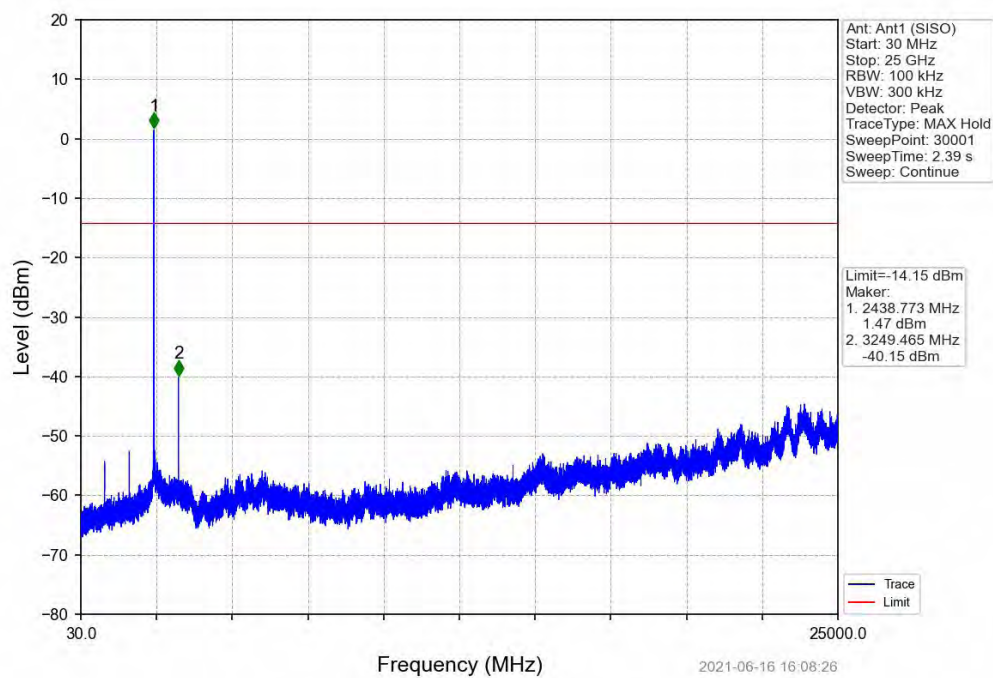
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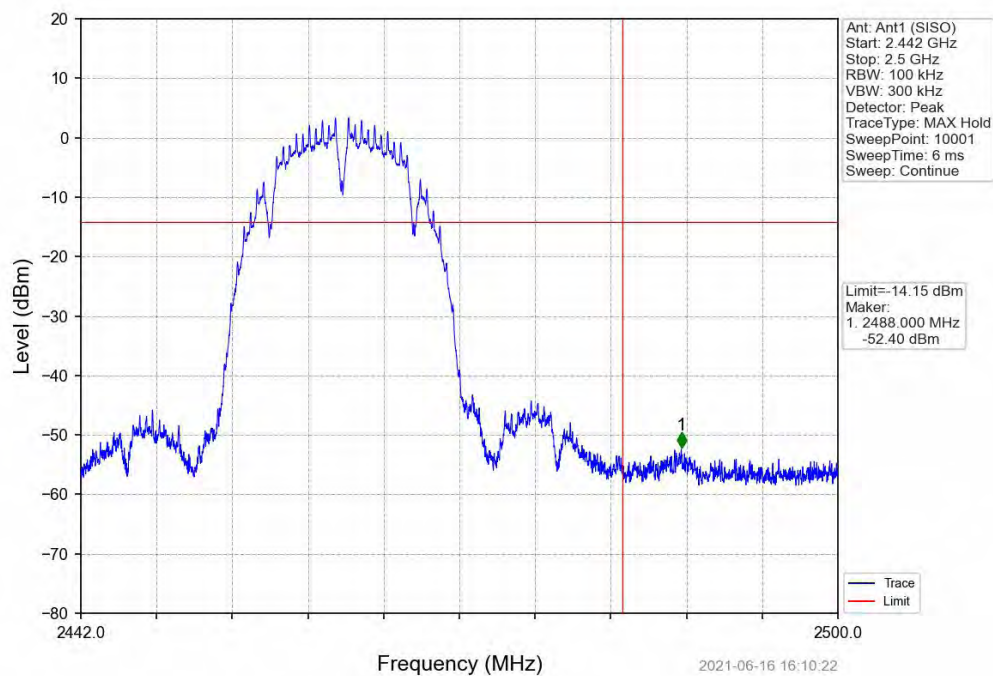
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802.11b\_HCH\_2462MHz\_Ant1 (SISO)\_NTNV



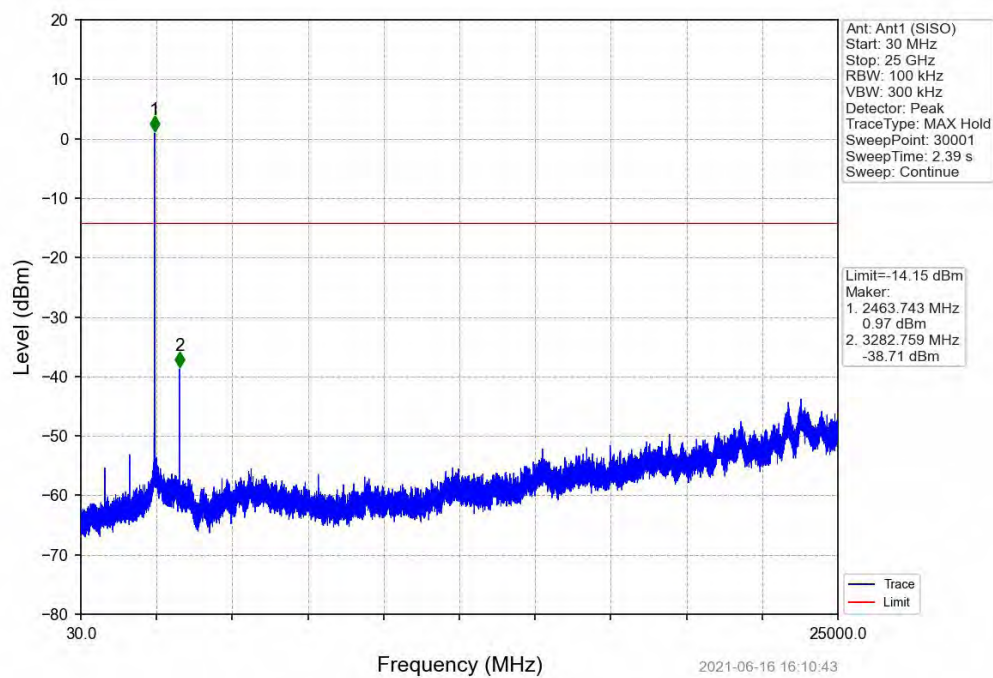
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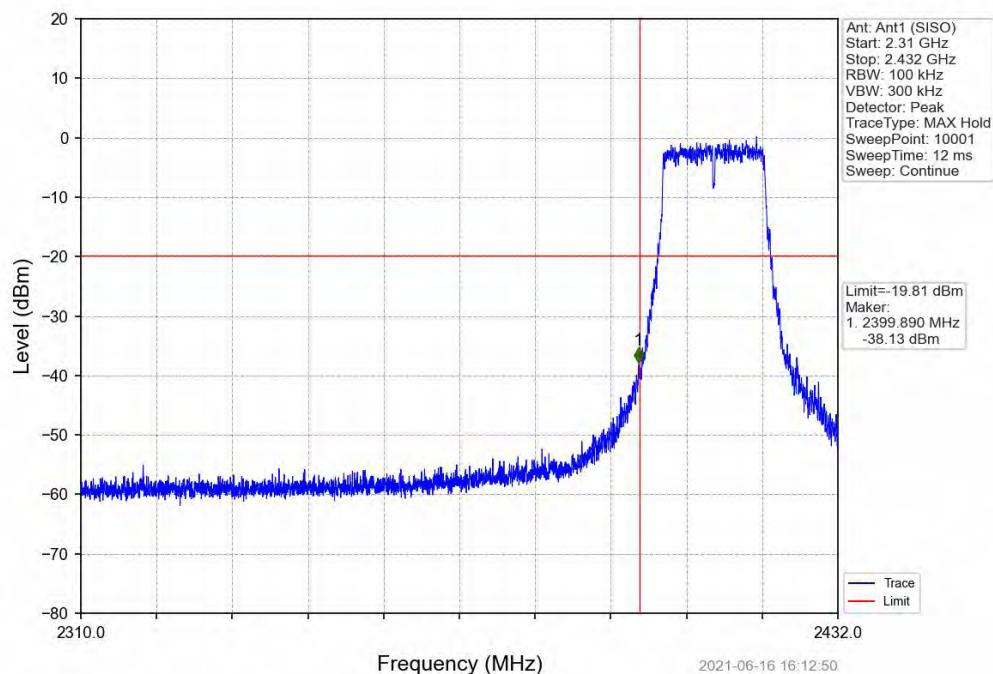
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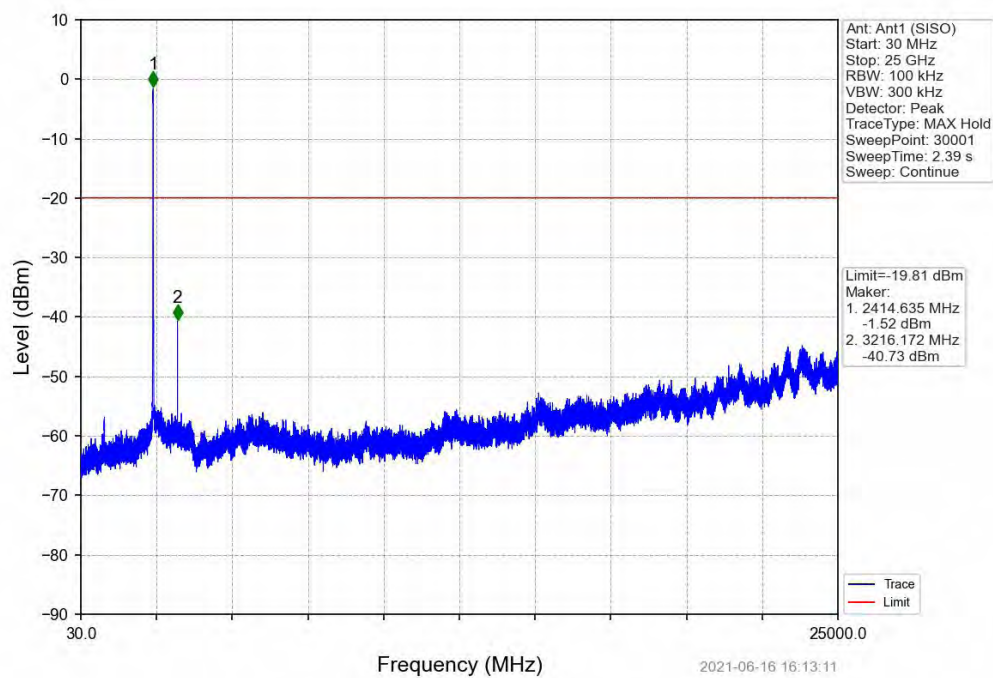


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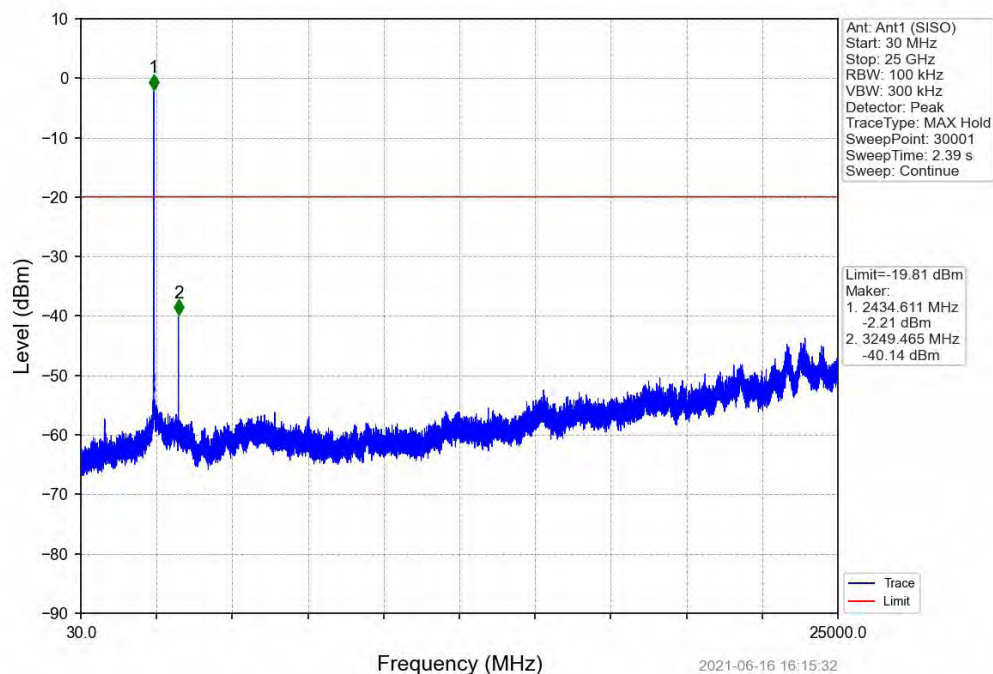
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802.11g\_MCH\_2437MHz\_Ant1 (SISO)\_NTNV



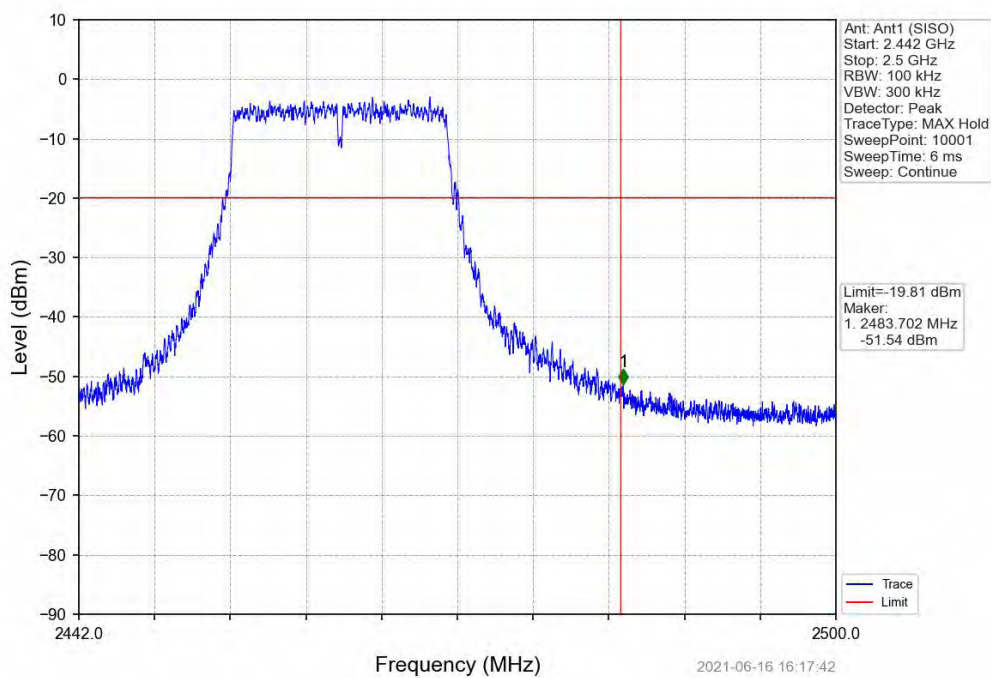
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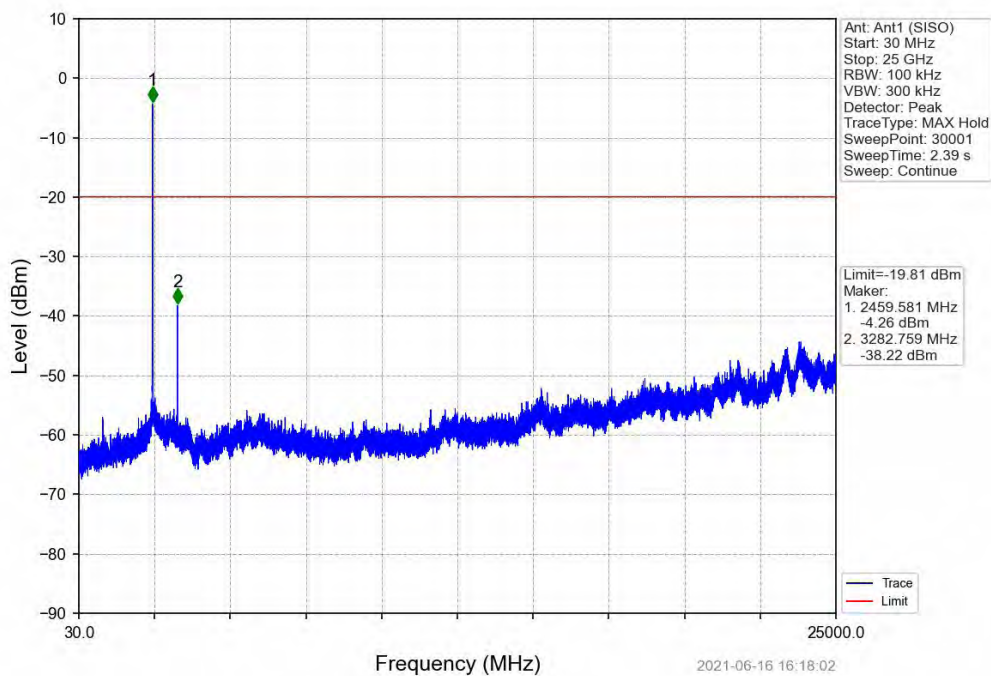
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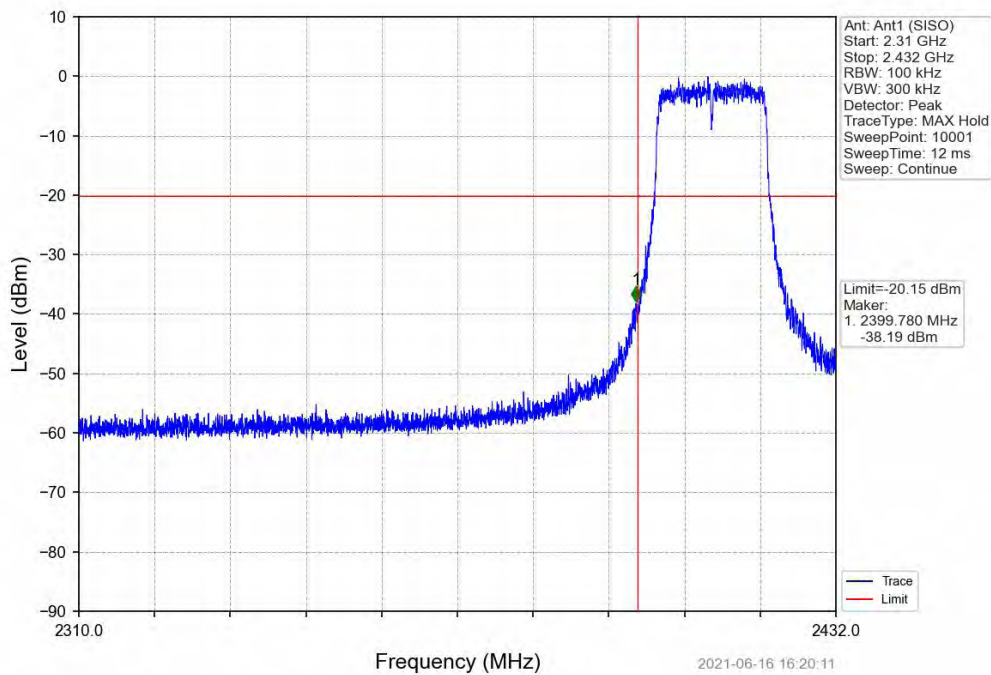
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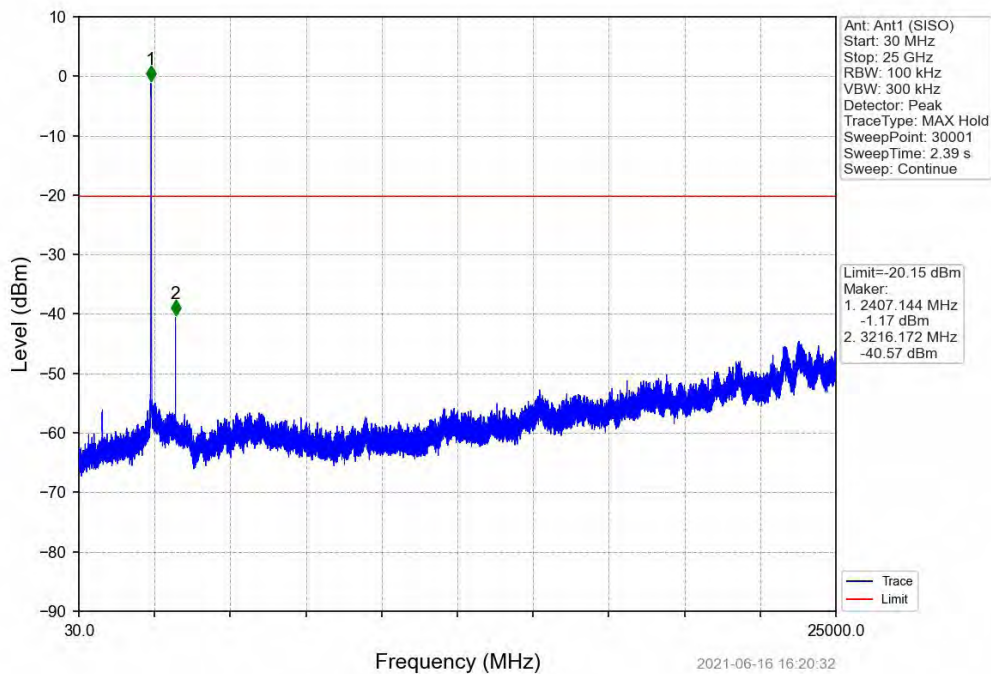
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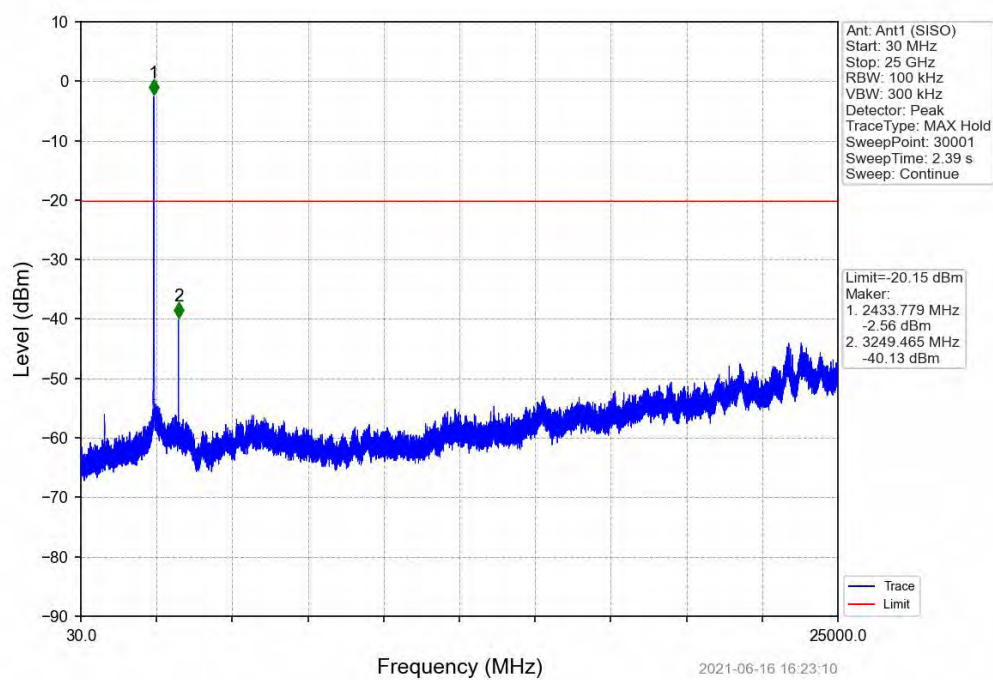
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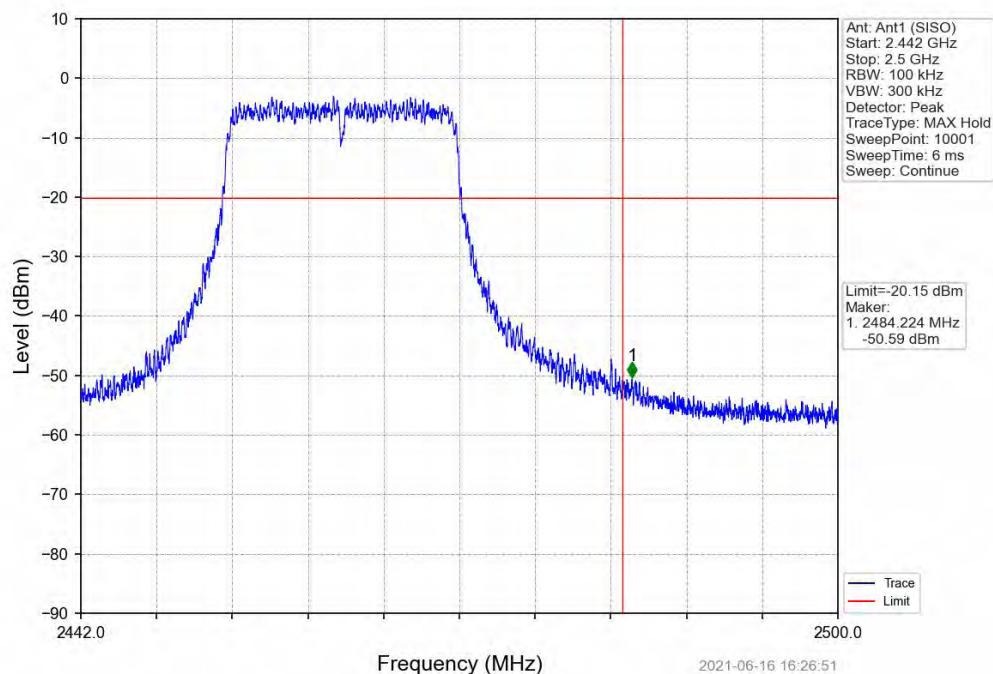
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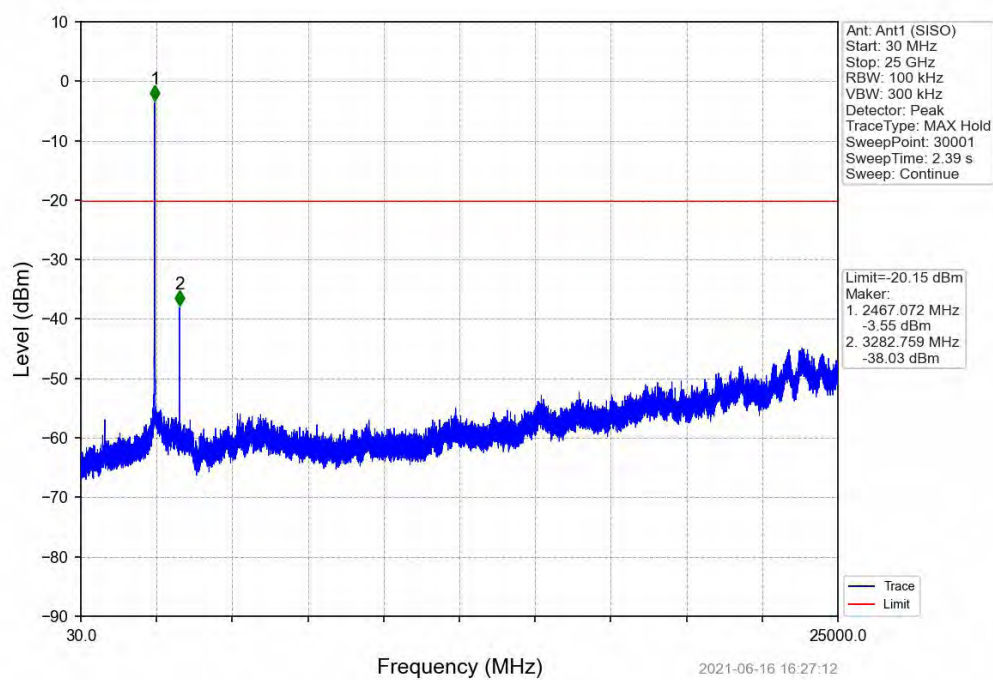


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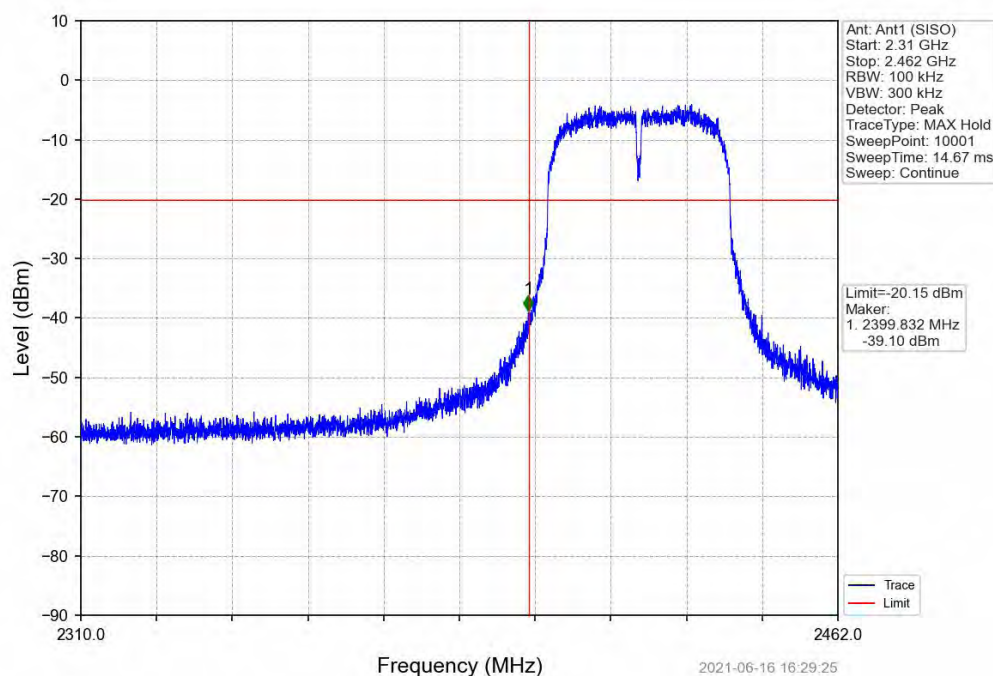
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802.11n(HT40)\_LCH\_2422MHz\_Ant1 (SISO)\_NTNV



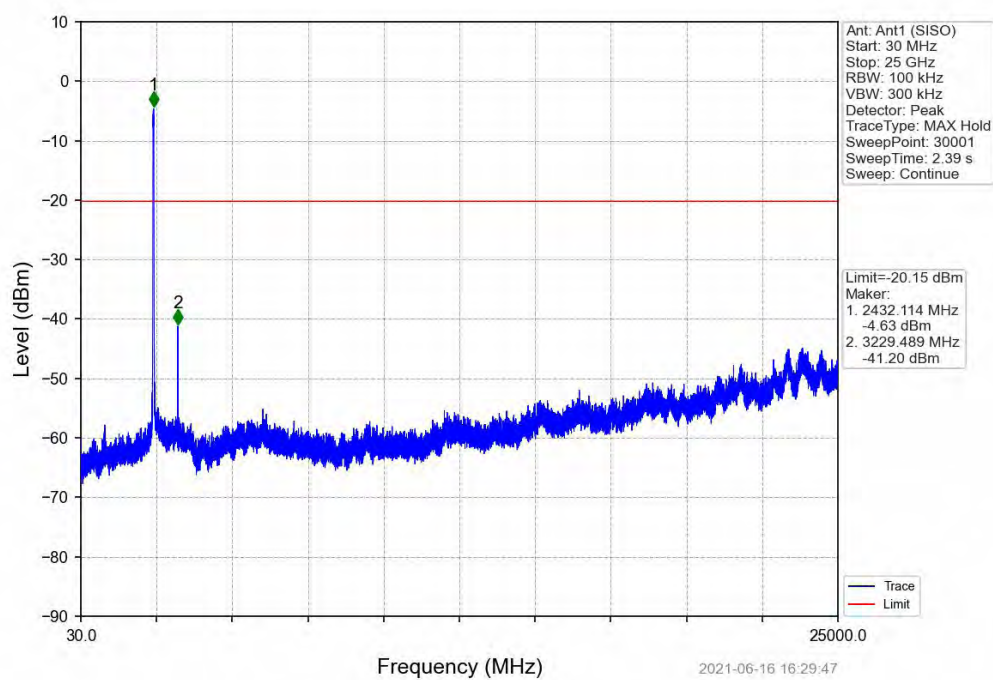
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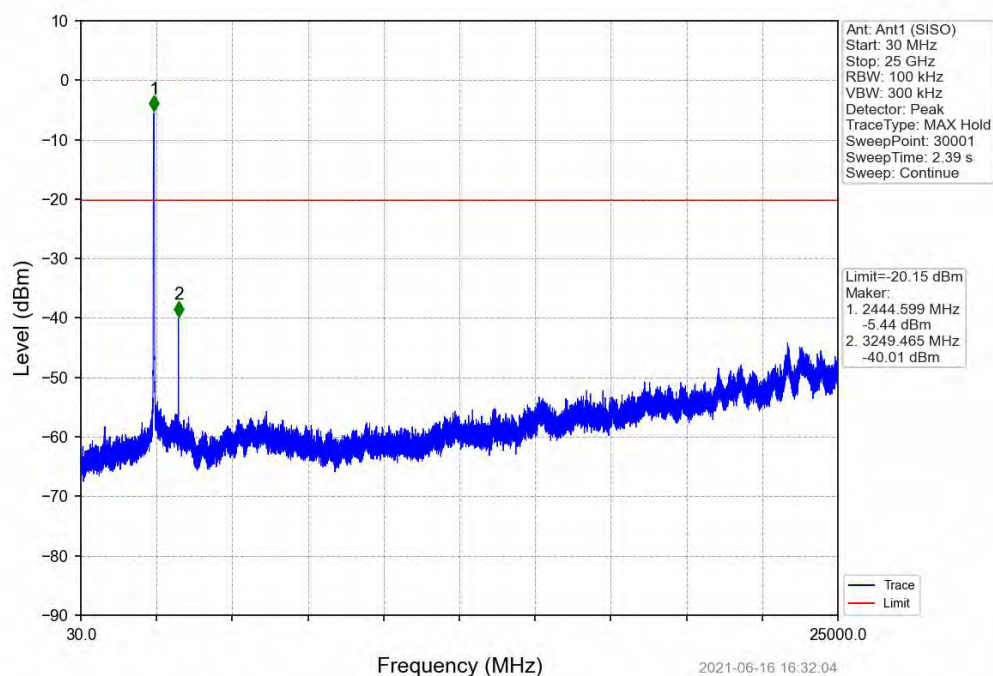
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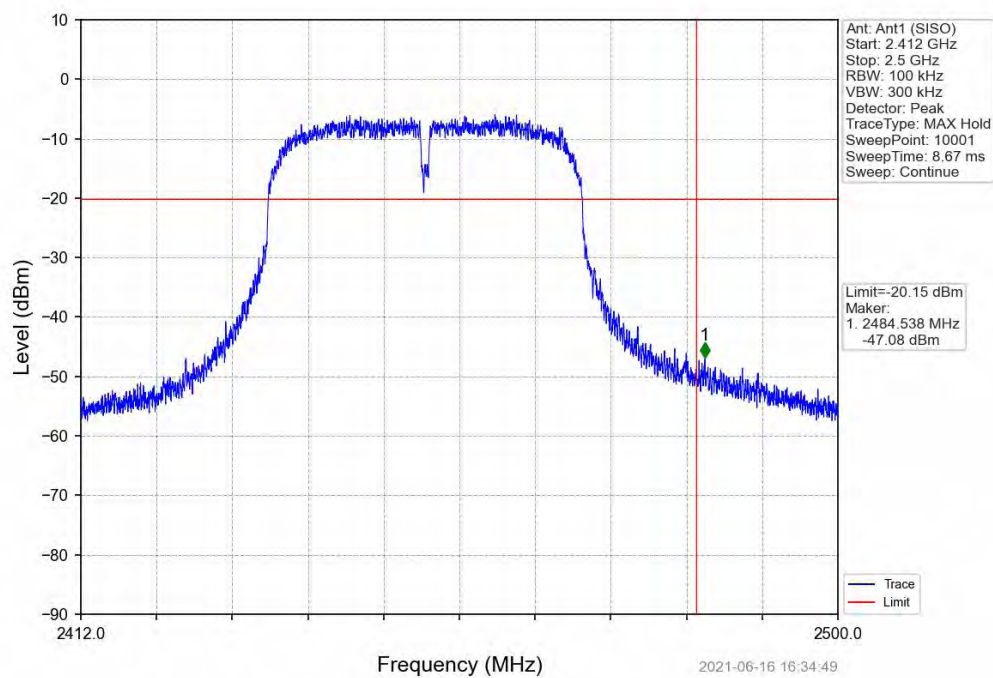
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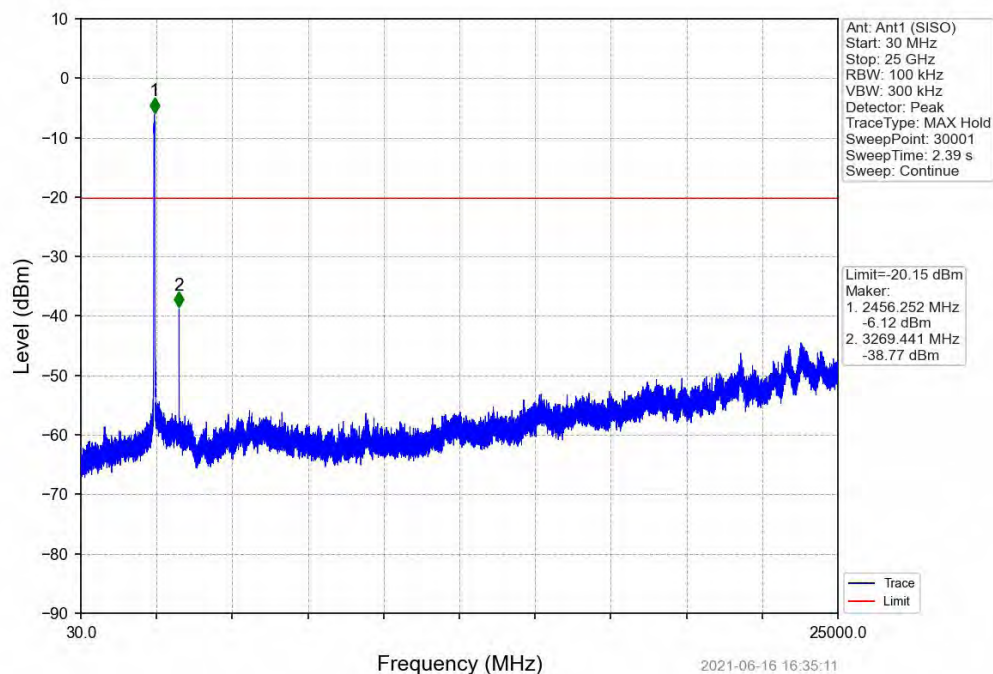
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802.11n(HT40)\_HCH\_2452MHz\_Ant1 (SISO)\_NTNV



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## Shenzhen Anbotech Compliance Laboratory Limited

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotech.com

Hotline  
400-003-0500  
www.anbotech.com