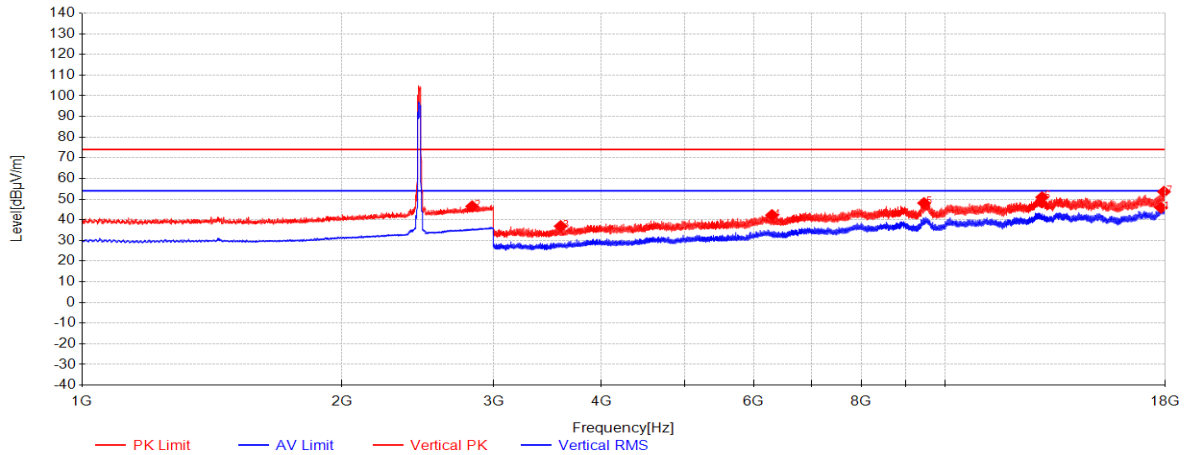
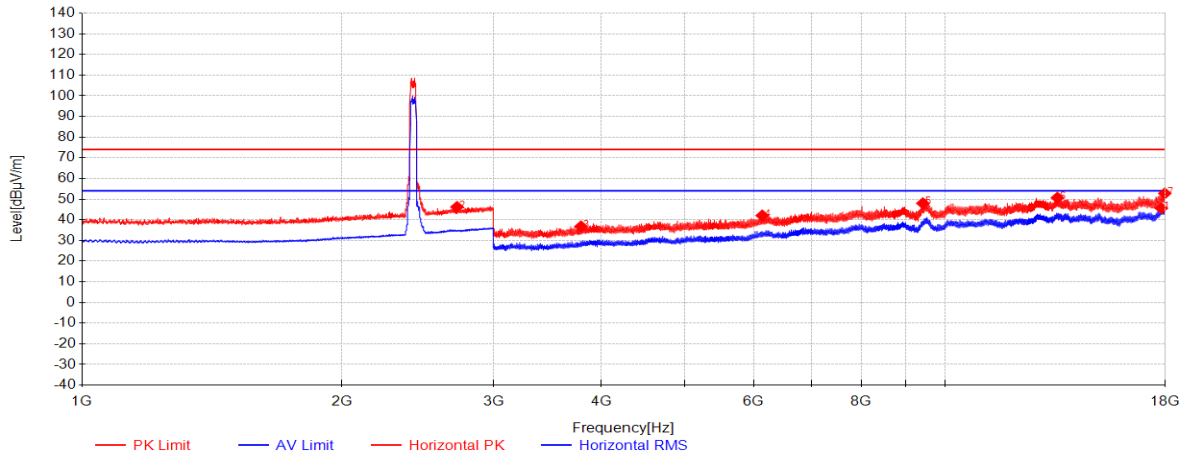


## 11ax(HE20)\_TX\_CH\_11\_Vertical



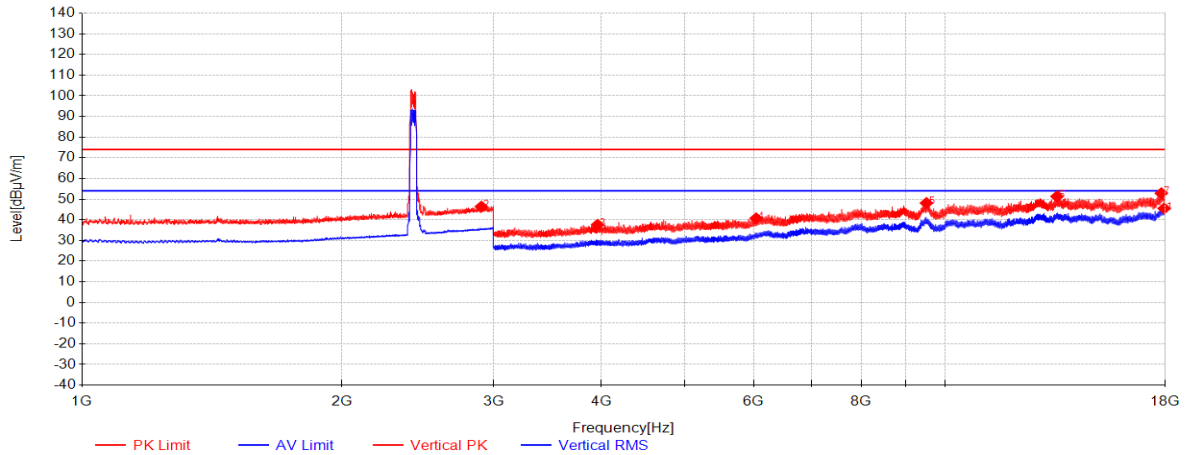
| Data List |                 |                |           |             |                |                |             |          |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.       | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1         | 17813.625       | 35.26          | 41.16     | -30.57      | 45.85          | 54.00          | 8.15        | Vertical |
| 2         | 2832            | 41.50          | 28.93     | -23.93      | 46.50          | 74.00          | 27.50       | Vertical |
| 3         | 3586.5          | 52.08          | 29.61     | -44.79      | 36.90          | 74.00          | 37.10       | Vertical |
| 4         | 6304.5          | 50.97          | 35.11     | -43.82      | 42.26          | 74.00          | 31.74       | Vertical |
| 5         | 9460.125        | 48.76          | 38.05     | -38.73      | 48.08          | 74.00          | 25.92       | Vertical |
| 6         | 12964.125       | 46.34          | 39.86     | -35.32      | 50.88          | 74.00          | 23.12       | Vertical |
| 7         | 17948.625       | 43.07          | 41.55     | -31.07      | 53.55          | 74.00          | 20.45       | Vertical |

## 11ax(HE40)\_TX\_CH\_03\_Horizontal



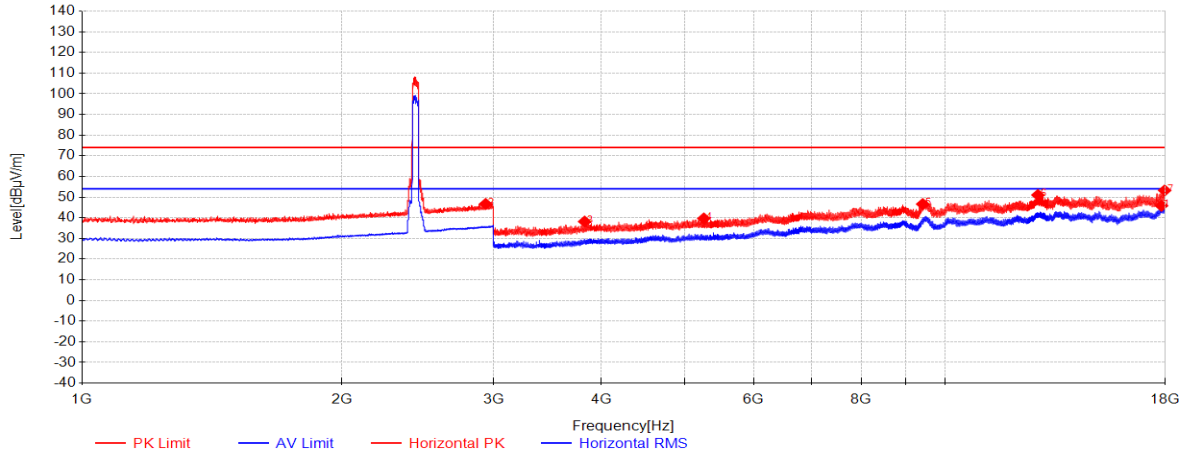
| Data List |                 |                |           |             |                |                |             |            |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.       | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1         | 17824.875       | 35.05          | 41.19     | -30.64      | 45.60          | 54.00          | 8.40        | Horizontal |
| 2         | 2719.5          | 41.99          | 28.48     | -24.26      | 46.21          | 74.00          | 27.79       | Horizontal |
| 3         | 3786.75         | 51.48          | 30.33     | -45.02      | 36.79          | 74.00          | 37.21       | Horizontal |
| 4         | 6142.5          | 51.23          | 34.79     | -43.96      | 42.06          | 74.00          | 31.94       | Horizontal |
| 5         | 9431.625        | 48.70          | 38.04     | -38.77      | 47.97          | 74.00          | 26.03       | Horizontal |
| 6         | 13504.125       | 45.02          | 40.15     | -34.52      | 50.66          | 74.00          | 23.34       | Horizontal |
| 7         | 17989.875       | 42.14          | 41.67     | -31.03      | 52.78          | 74.00          | 21.22       | Horizontal |

## 11ax(HE40)\_TX\_CH\_03\_Veritical



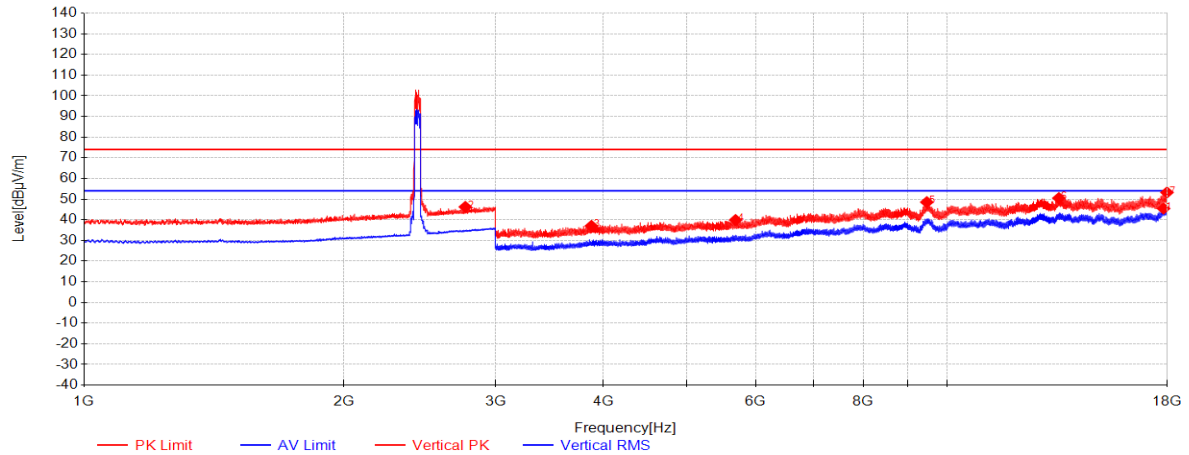
| Data List |                 |                |           |             |                |                |             |          |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.       | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1         | 17955.75        | 35.00          | 41.57     | -31.06      | 45.51          | 54.00          | 8.49        | Vertical |
| 2         | 2902.5          | 40.68          | 29.21     | -23.52      | 46.37          | 74.00          | 27.63       | Vertical |
| 3         | 3957.75         | 51.70          | 30.95     | -45.07      | 37.58          | 74.00          | 36.42       | Vertical |
| 4         | 6042.75         | 50.23          | 34.59     | -44.13      | 40.69          | 74.00          | 33.31       | Vertical |
| 5         | 9521.25         | 48.63          | 38.05     | -38.58      | 48.10          | 74.00          | 25.90       | Vertical |
| 6         | 13491           | 45.71          | 40.15     | -34.58      | 51.28          | 74.00          | 22.72       | Vertical |
| 7         | 17824.5         | 42.29          | 41.19     | -30.64      | 52.84          | 74.00          | 21.16       | Vertical |

## 11ax(HE40)\_TX\_CH\_06\_Horizontal



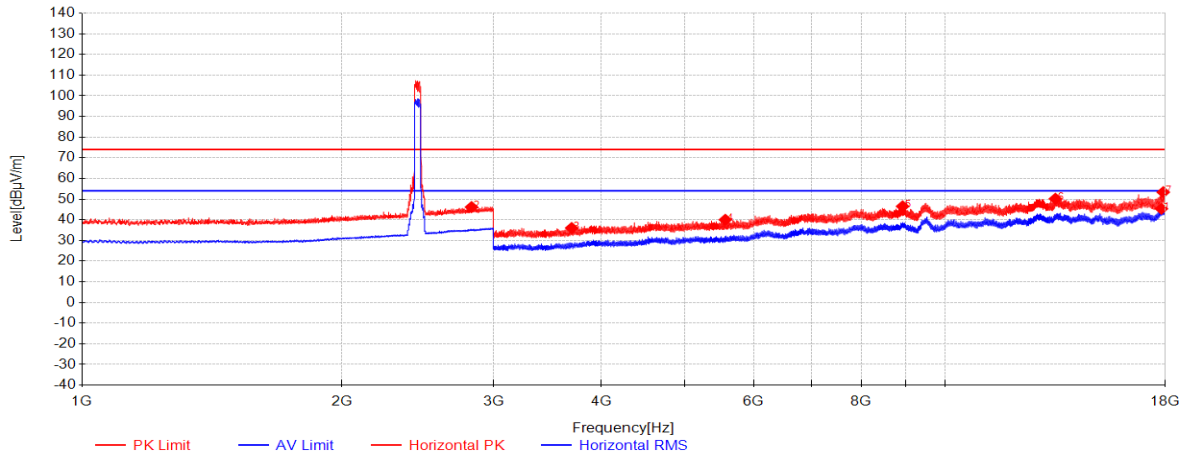
| Data List |                 |                |           |             |                |                |             |            |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.       | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1         | 17827.875       | 35.31          | 41.20     | -30.66      | 45.85          | 54.00          | 8.15        | Horizontal |
| 2         | 2936            | 40.85          | 29.34     | -23.50      | 46.70          | 74.00          | 27.30       | Horizontal |
| 3         | 3823.875        | 52.65          | 30.47     | -44.95      | 38.17          | 74.00          | 35.83       | Horizontal |
| 4         | 5256            | 51.37          | 33.05     | -44.76      | 39.66          | 74.00          | 34.34       | Horizontal |
| 5         | 9428.25         | 47.36          | 38.04     | -38.78      | 46.63          | 74.00          | 27.37       | Horizontal |
| 6         | 12821.625       | 46.19          | 39.69     | -34.88      | 51.00          | 74.00          | 23.00       | Horizontal |
| 7         | 17983.125       | 42.62          | 41.65     | -31.04      | 53.24          | 74.00          | 20.76       | Horizontal |

## 11ax(HE40)\_TX\_CH\_06\_Veritical



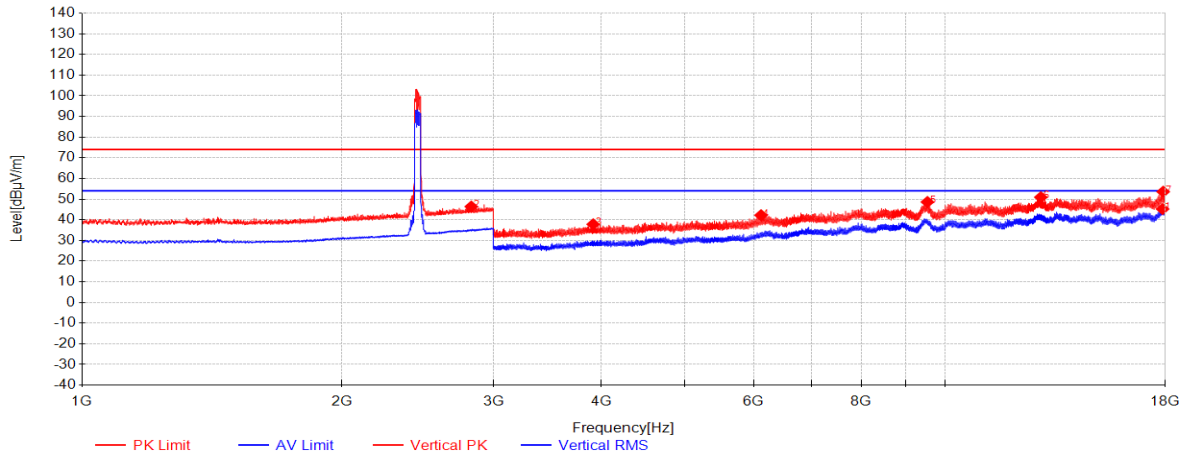
| Data List |                 |                |           |             |                |                |             |          |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.       | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1         | 17831.625       | 34.94          | 41.21     | -30.69      | 45.47          | 54.00          | 8.53        | Vertical |
| 2         | 2766            | 41.75          | 28.66     | -24.18      | 46.24          | 74.00          | 27.76       | Vertical |
| 3         | 3873.375        | 51.31          | 30.64     | -44.92      | 37.03          | 74.00          | 36.97       | Vertical |
| 4         | 5689.875        | 50.39          | 33.57     | -44.06      | 39.90          | 74.00          | 34.10       | Vertical |
| 5         | 9480            | 49.19          | 38.05     | -38.70      | 48.54          | 74.00          | 25.46       | Vertical |
| 6         | 13485.75        | 44.97          | 40.14     | -34.63      | 50.49          | 74.00          | 23.51       | Vertical |
| 7         | 18000           | 42.55          | 41.70     | -31.02      | 53.23          | 74.00          | 20.77       | Vertical |

## 11ax(HE40)\_TX\_CH\_09\_Horizontal



| Data List |                 |                |           |             |                |                |             |            |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|------------|
| NO.       | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity   |
| 1         | 17825.25        | 34.79          | 41.19     | -30.65      | 45.34          | 54.00          | 8.66        | Horizontal |
| 2         | 2827            | 41.21          | 28.91     | -23.96      | 46.16          | 74.00          | 27.84       | Horizontal |
| 3         | 3693.75         | 51.42          | 30.00     | -45.38      | 36.03          | 74.00          | 37.97       | Horizontal |
| 4         | 5565.75         | 51.44          | 33.20     | -44.62      | 40.01          | 74.00          | 33.99       | Horizontal |
| 5         | 8933.625        | 48.11          | 37.95     | -39.56      | 46.50          | 74.00          | 27.50       | Horizontal |
| 6         | 13432.5         | 45.18          | 40.12     | -35.14      | 50.16          | 74.00          | 23.84       | Horizontal |
| 7         | 17914.5         | 43.01          | 41.45     | -31.10      | 53.37          | 74.00          | 20.63       | Horizontal |

## 11ax(HE40)\_TX\_CH\_09\_Vertical



| Data List |                 |                |           |             |                |                |             |          |
|-----------|-----------------|----------------|-----------|-------------|----------------|----------------|-------------|----------|
| NO.       | Frequency [MHz] | Reading [dBμV] | AF [dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1         | 17882.625       | 34.85          | 41.36     | -31.00      | 45.21          | 54.00          | 8.79        | Vertical |
| 2         | 2825.5          | 41.45          | 28.90     | -23.97      | 46.39          | 74.00          | 27.61       | Vertical |
| 3         | 3912            | 51.98          | 30.78     | -44.94      | 37.82          | 74.00          | 36.18       | Vertical |
| 4         | 6123.375        | 51.49          | 34.75     | -44.03      | 42.21          | 74.00          | 31.79       | Vertical |
| 5         | 9546            | 49.03          | 38.05     | -38.48      | 48.60          | 74.00          | 25.40       | Vertical |
| 6         | 12921.75        | 46.46          | 39.81     | -35.33      | 50.93          | 74.00          | 23.07       | Vertical |
| 7         | 17912.25        | 43.24          | 41.45     | -31.10      | 53.59          | 74.00          | 20.41       | Vertical |

## 7.4 Maximum Conducted Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)

Test Method: ANSI C63.10 (2020) Section 11.9.1

Limit:

| Frequency range(MHz) | Output power of the intentional radiator(watt)         |
|----------------------|--------------------------------------------------------|
| 902-928              | 1 for $\geq 50$ hopping channels                       |
|                      | 0.25 for $25 \leq$ hopping channels $< 50$             |
|                      | 1 for digital modulation                               |
| 2400-2483.5          | 1 for $\geq 75$ non-overlapping hopping channels       |
|                      | 0.125 for all other frequency hopping systems          |
|                      | 1 for digital modulation                               |
| 5725-5850            | 1 for frequency hopping systems and digital modulation |

### 7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C

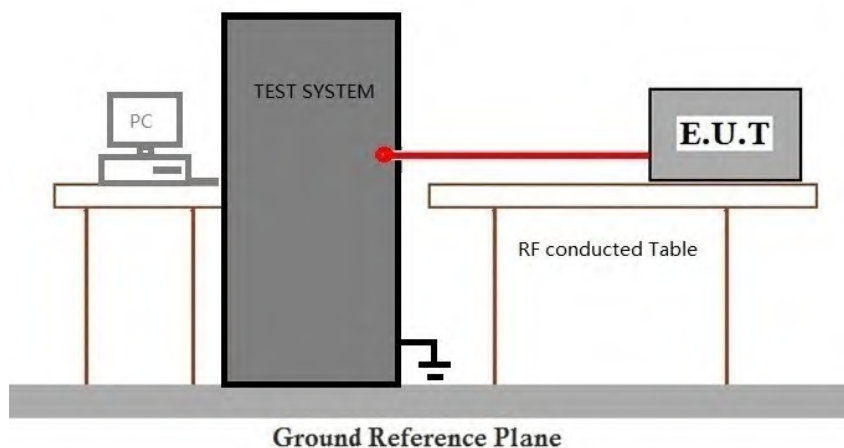
Humidity: 52 % RH

Atmospheric Pressure: 1001 mbar

### 7.4.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                                                                                                         |
|-----------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Final test            | 06        | TX mode(WIFI 2.4G)_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report. |

### 7.4.3 Test Setup Diagram





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#### 7.4.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details

## 7.5 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)

Test Method: ANSI C63.10 (2020) Section 11.8.1

Limit:

≥500 kHz

### 7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C

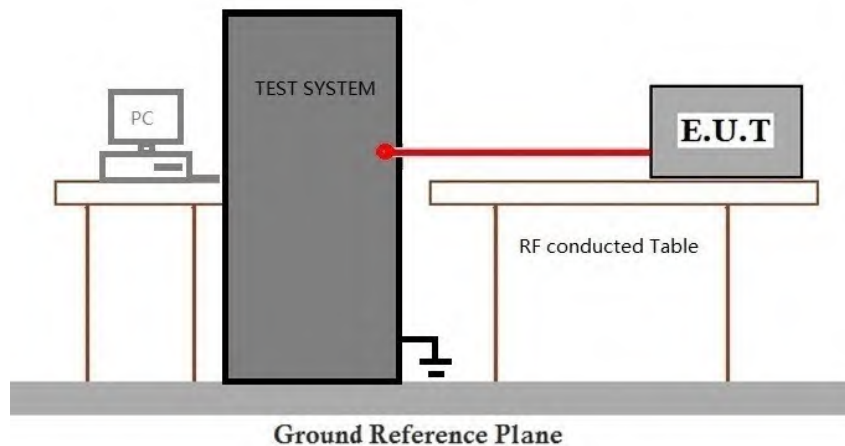
Humidity: 52 % RH

Atmospheric Pressure: 1001 mbar

### 7.5.2 Test Mode Description

| Pre-scan /<br>Final test | Mode<br>Code | Description                                                                                                                                         |
|--------------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Final test               | 06           | TX mode(WIFI 2.4G)_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report. |

### 7.5.3 Test Setup Diagram



### 7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details

## 7.6 Power Spectral Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)

Test Method: ANSI C63.10 (2020) Section 11.10.2

Limit:

≤8dBm in any 3 kHz band during any time interval of continuous transmission

### 7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C

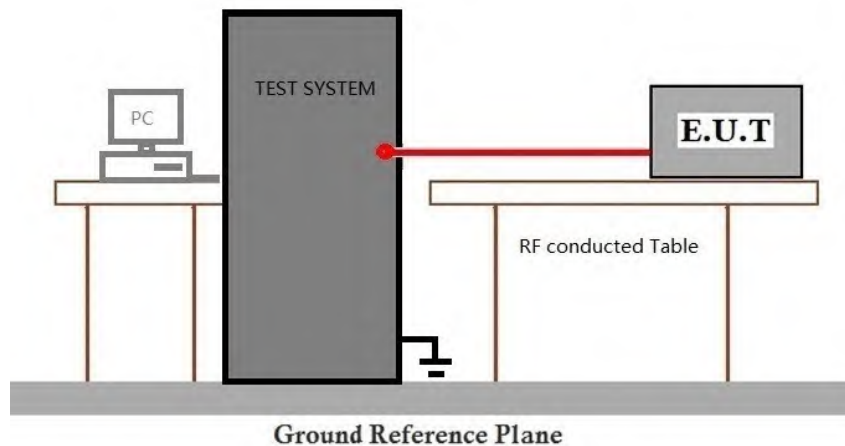
Humidity: 52 % RH

Atmospheric Pressure: 1001 mbar

### 7.6.2 Test Mode Description

| Pre-scan /<br>Final test | Mode<br>Code | Description                                                                                                                                         |
|--------------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Final test               | 06           | TX mode(WIFI 2.4G)_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report. |

### 7.6.3 Test Setup Diagram



### 7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details

## 7.7 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2020) Section 6.10.4

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

### 7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C

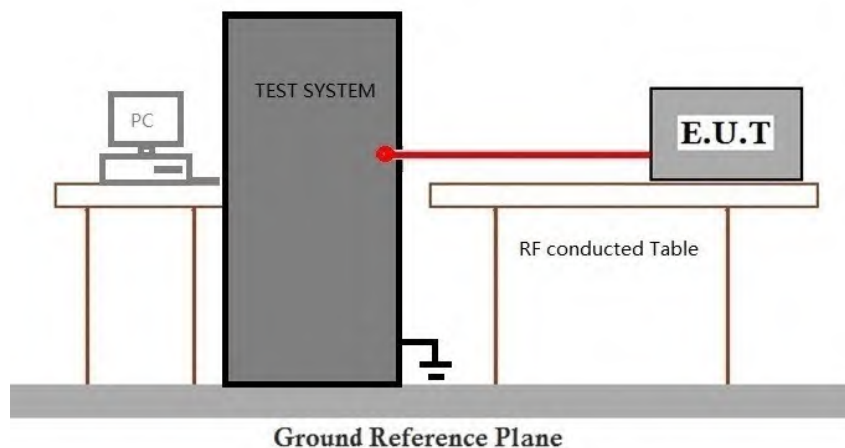
Humidity: 52 % RH

Atmospheric Pressure: 1001 mbar

### 7.7.2 Test Mode Description

| Pre-scan /<br>Final test | Mode<br>Code | Description                                                                                                                                         |
|--------------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Final test               | 06           | TX mode(WIFI 2.4G)_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report. |

### 7.7.3 Test Setup Diagram



### 7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details

## 7.8 Conducted Spurious Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)

Test Method: ANSI C63.10 (2020) Section 11.11

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

### 7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 25 °C

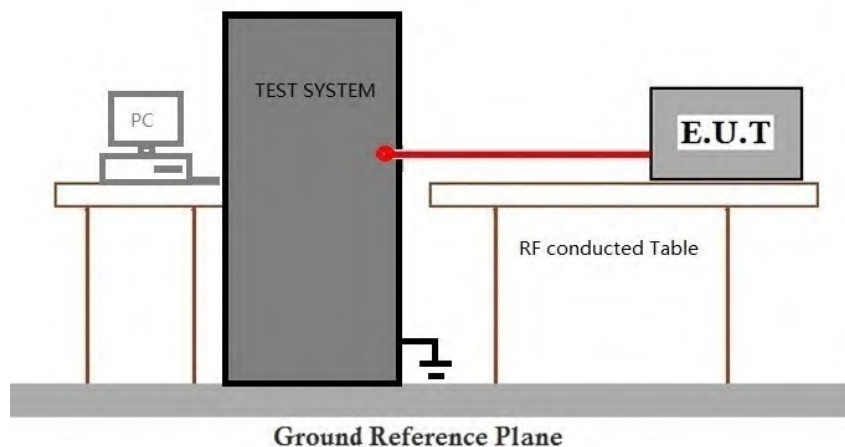
Humidity: 52 % RH

Atmospheric Pressure: 1001 mbar

### 7.8.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description                                                                                                                                         |
|-----------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Final test            | 06        | TX mode(WIFI 2.4G)_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report. |

### 7.8.3 Test Setup Diagram



### 7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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## 8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SUCR2604000301MO

## 9 EUT Constructional Details (EUT Photos)

Refer to Appendix\_Photographs of EUT Constructional Details for SUCR2604000301MO

## 10 Appendix

### 1. Duty Cycle

#### 1.1 Test Result

##### 1.1.1 Ant1

| 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          | MIMO    | 2412            | /  | /      | 0.688     | 0.701       | 98.15          | 0.08                              | 0.03                  |
| 802.11g          | MIMO    | 2412            | /  | /      | 2.096     | 2.111       | 99.29          | 0.03                              | 0.00                  |
| 802.11n (HT20)   | MIMO    | 2412            | /  | /      | 5.428     | 5.445       | 99.69          | 0.01                              | 0.03                  |
| 802.11n (HT40)   | MIMO    | 2422            | /  | /      | 5.428     | 5.443       | 99.72          | 0.01                              | 0.00                  |
| 802.11ax (HEW20) | MIMO    | 2412            | SU | /      | 5.456     | 5.471       | 99.73          | 0.01                              | 0.00                  |
| 802.11ax (HEW40) | MIMO    | 2422            | SU | /      | 5.454     | 5.470       | 99.71          | 0.01                              | 0.04                  |

## 2. Bandwidth

### 2.1 Test Result

#### 2.1.1 OBW

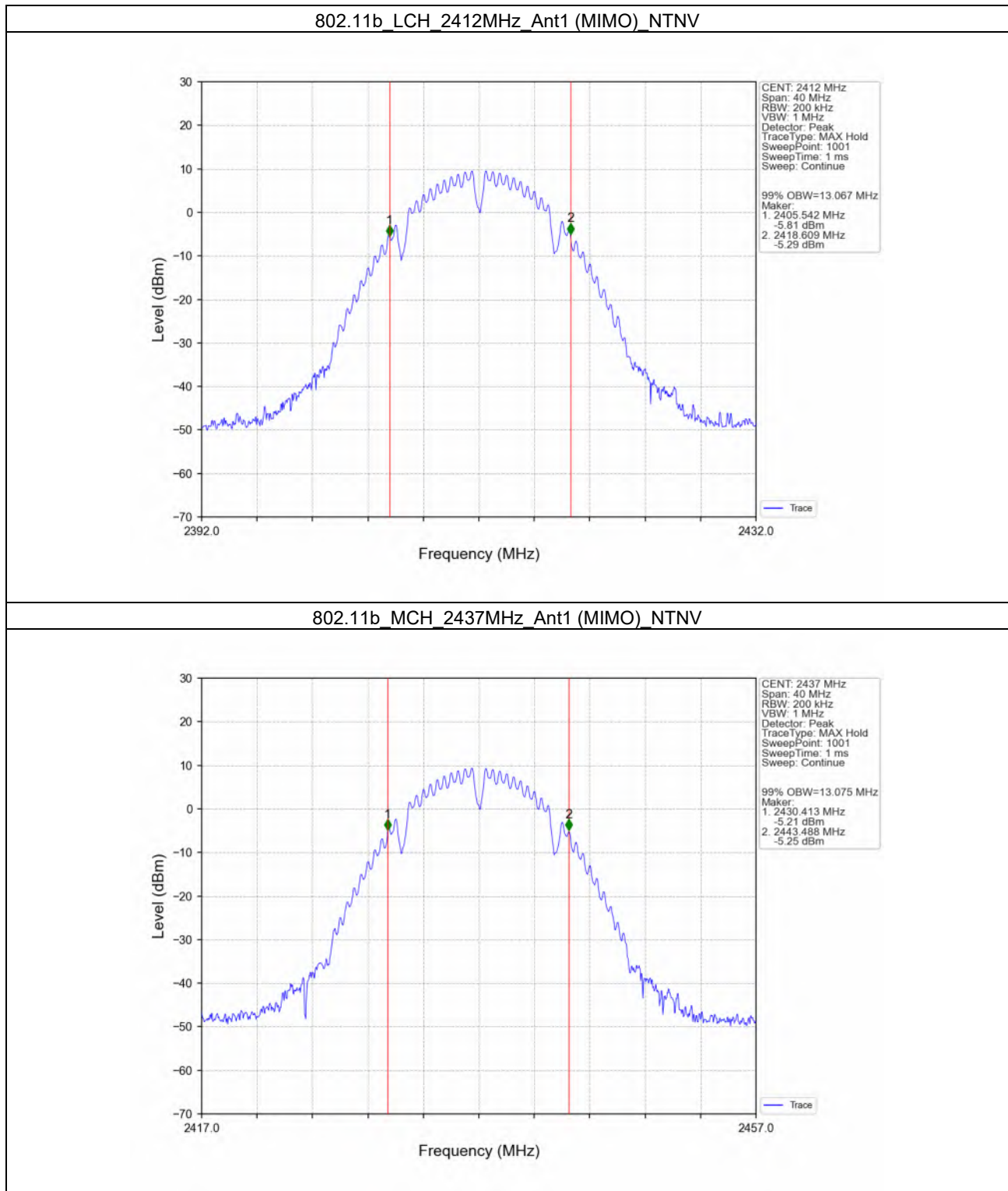
| Mode             | TX Type | Frequency (MHz) | RU | RU Pos | ANT | 99% Occupied Bandwidth (MHz) |       | Verdict |
|------------------|---------|-----------------|----|--------|-----|------------------------------|-------|---------|
|                  |         |                 |    |        |     | Result                       | Limit |         |
| 802.11b          | MIMO    | 2412            | /  | /      | 1   | 13.067                       | /     | Pass    |
|                  |         | 2437            | /  | /      | 1   | 13.075                       | /     | Pass    |
|                  |         | 2462            | /  | /      | 1   | 13.000                       | /     | Pass    |
| 802.11g          | MIMO    | 2412            | /  | /      | 1   | 16.363                       | /     | Pass    |
|                  |         | 2437            | /  | /      | 1   | 16.362                       | /     | Pass    |
|                  |         | 2462            | /  | /      | 1   | 16.341                       | /     | Pass    |
| 802.11ax (HEW20) | MIMO    | 2412            | SU | /      | 1   | 18.943                       | /     | Pass    |
|                  |         | 2437            | SU | /      | 1   | 18.939                       | /     | Pass    |
|                  |         | 2462            | SU | /      | 1   | 18.917                       | /     | Pass    |
| 802.11ax (HEW40) | MIMO    | 2422            | SU | /      | 1   | 37.856                       | /     | Pass    |
|                  |         | 2437            | SU | /      | 1   | 37.965                       | /     | Pass    |
|                  |         | 2452            | SU | /      | 1   | 37.944                       | /     | Pass    |

#### 2.1.2 6dB BW

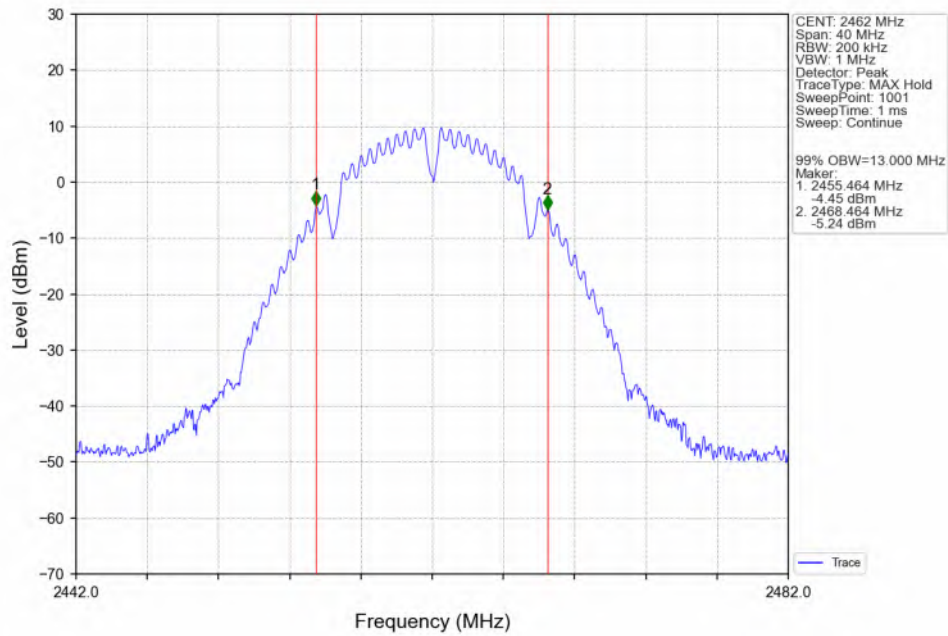
| Mode             | TX Type | Frequency (MHz) | RU | RU Pos | ANT | 6dB Bandwidth (MHz) |       | Verdict |
|------------------|---------|-----------------|----|--------|-----|---------------------|-------|---------|
|                  |         |                 |    |        |     | Result              | Limit |         |
| 802.11b          | MIMO    | 2412            | /  | /      | 1   | 8.171               | >=0.5 | Pass    |
|                  |         | 2437            | /  | /      | 1   | 8.162               | >=0.5 | Pass    |
|                  |         | 2462            | /  | /      | 1   | 8.161               | >=0.5 | Pass    |
| 802.11g          | MIMO    | 2412            | /  | /      | 1   | 16.369              | >=0.5 | Pass    |
|                  |         | 2437            | /  | /      | 1   | 16.381              | >=0.5 | Pass    |
|                  |         | 2462            | /  | /      | 1   | 16.345              | >=0.5 | Pass    |
| 802.11ax (HEW20) | MIMO    | 2412            | SU | /      | 1   | 19.035              | >=0.5 | Pass    |
|                  |         | 2437            | SU | /      | 1   | 18.988              | >=0.5 | Pass    |
|                  |         | 2462            | SU | /      | 1   | 18.986              | >=0.5 | Pass    |
| 802.11ax (HEW40) | MIMO    | 2422            | SU | /      | 1   | 37.415              | >=0.5 | Pass    |
|                  |         | 2437            | SU | /      | 1   | 37.853              | >=0.5 | Pass    |
|                  |         | 2452            | SU | /      | 1   | 37.627              | >=0.5 | Pass    |

## 2.2 Test Graph

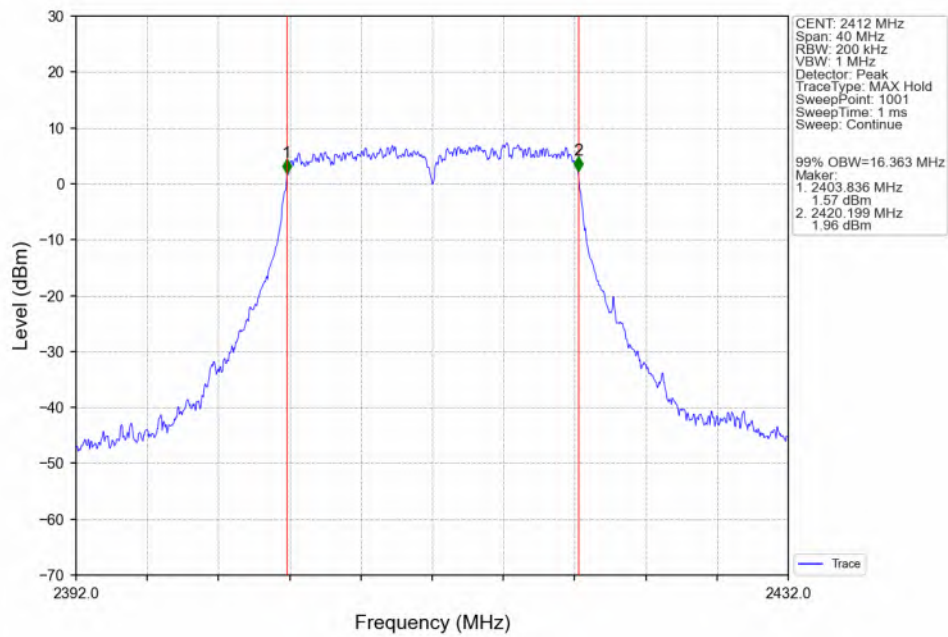
### 2.2.1 OBW



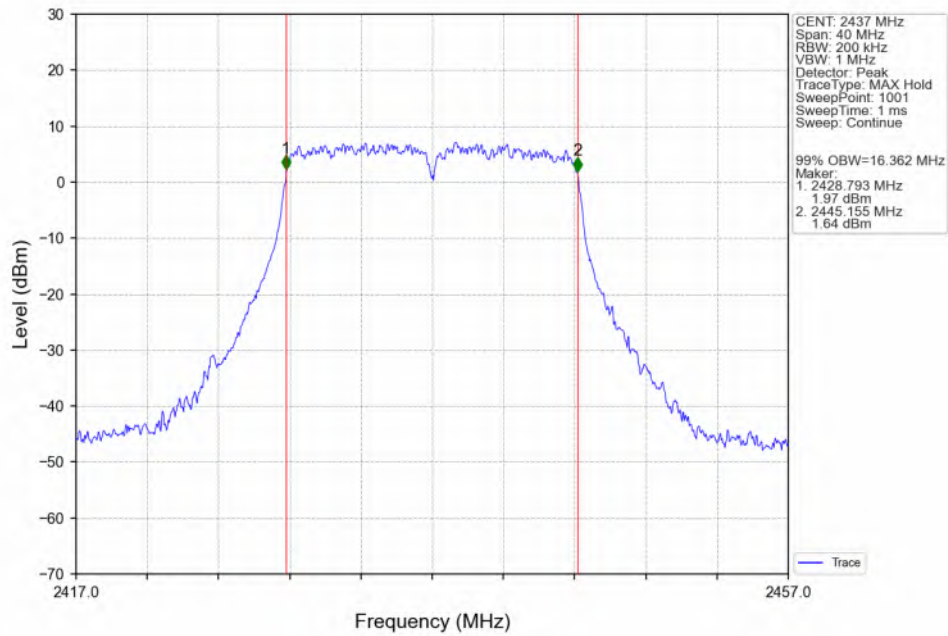
802.11b\_HCH\_2462MHz\_Ant1 (MIMO)\_NTNV



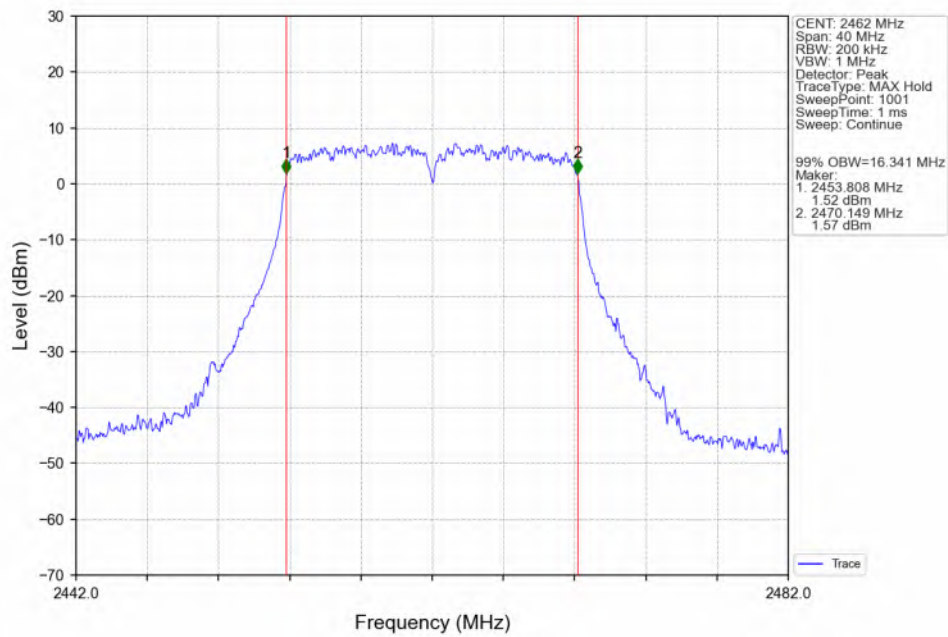
802.11g\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



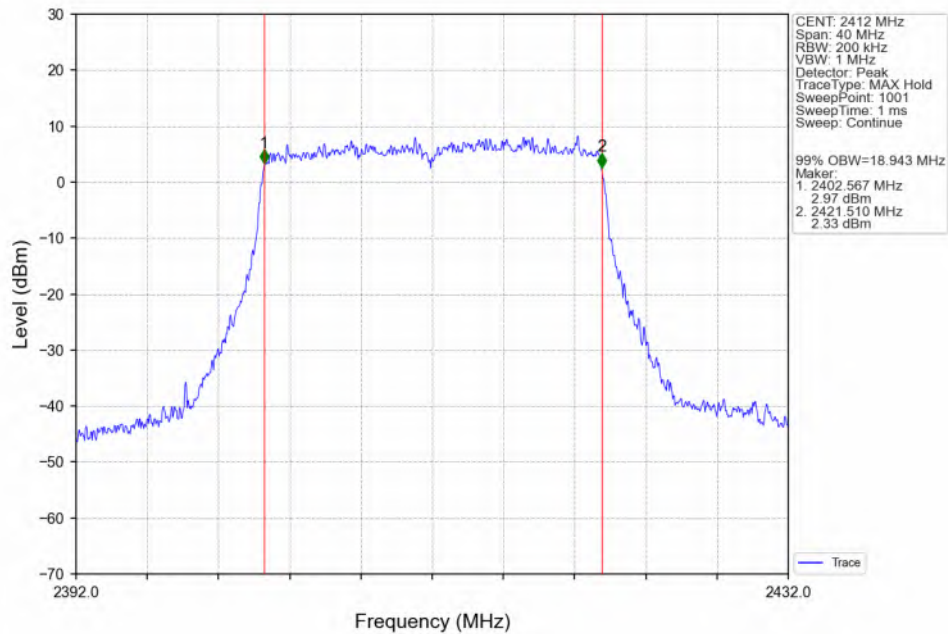
802.11g\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



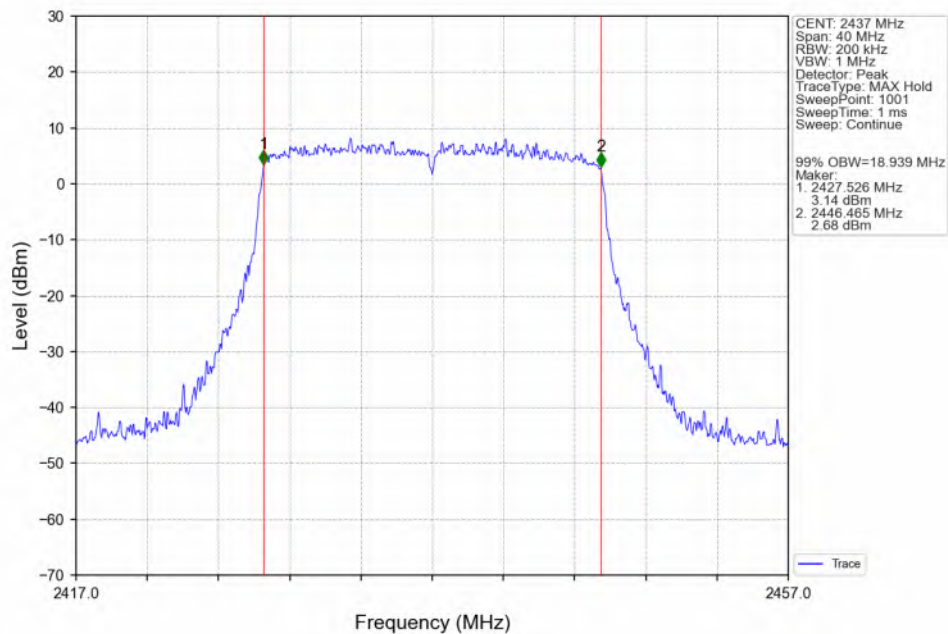
802.11g\_HCH\_2462MHz\_Ant1 (MIMO)\_NTNV



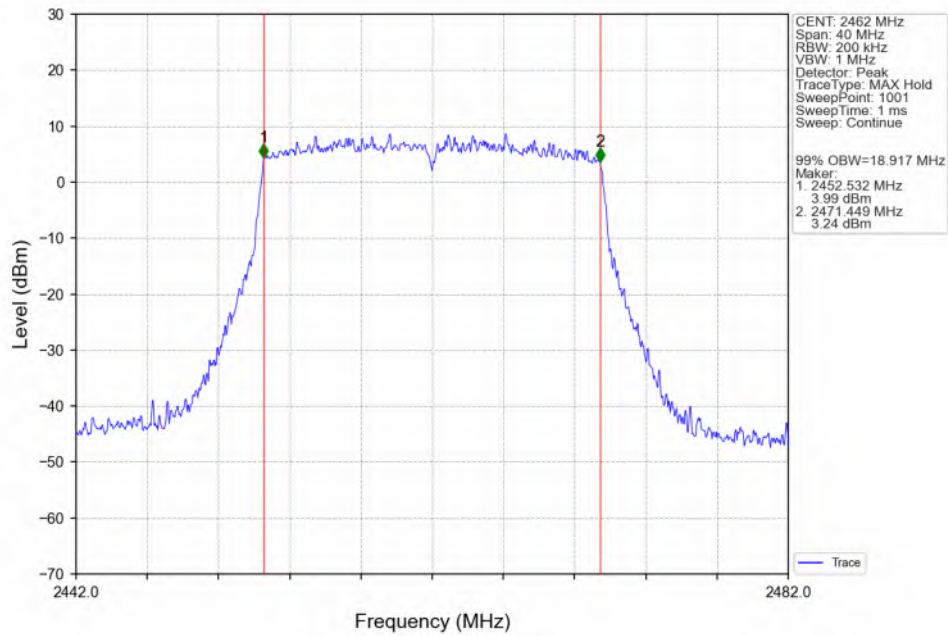
802.11ax(HEW20)\_LCH\_2412MHz\_SU / Ant1 (MIMO)\_NTNV



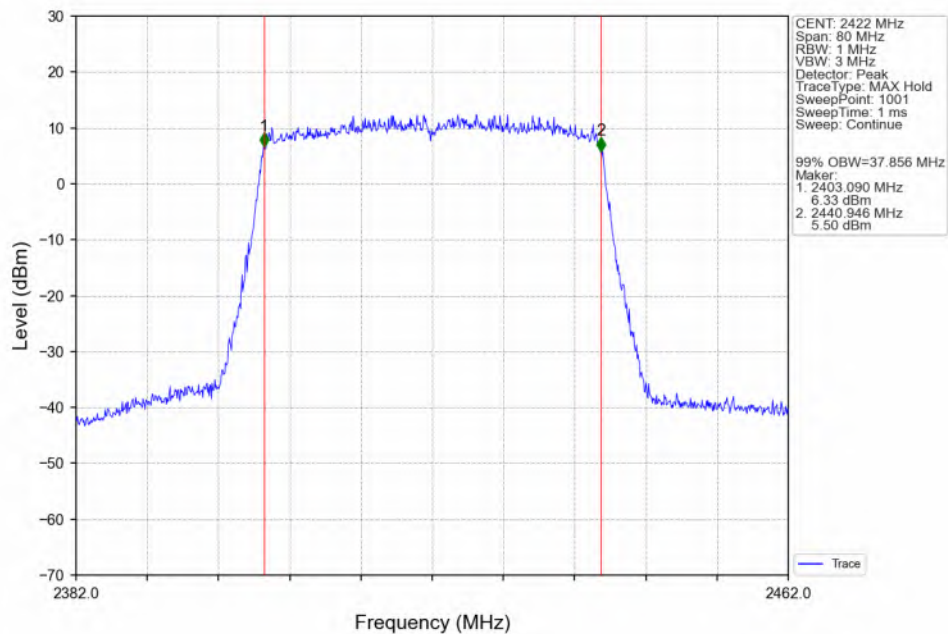
802.11ax(HEW20)\_MCH\_2437MHz\_SU / Ant1 (MIMO)\_NTNV



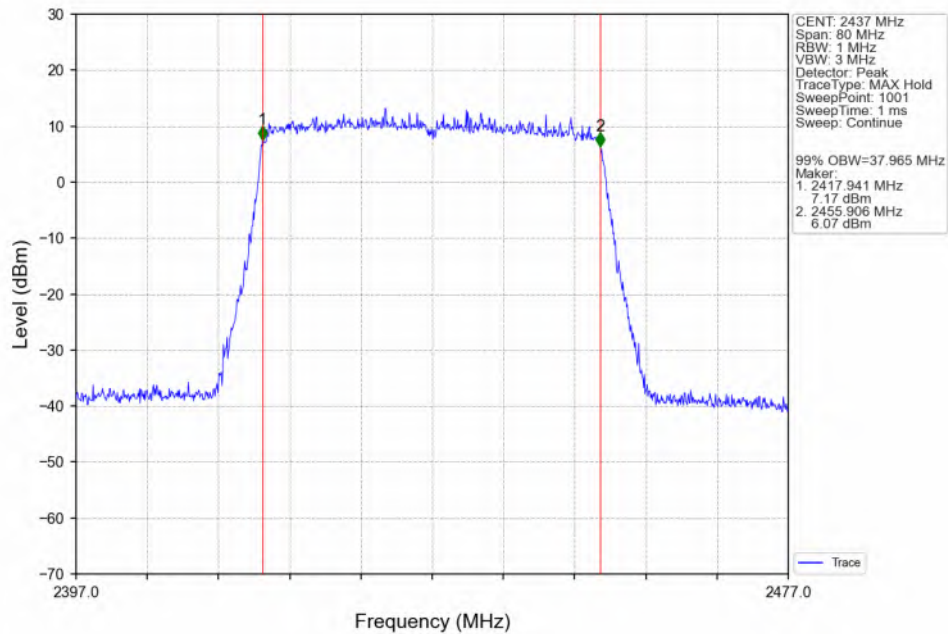
802.11ax(HEW20) HCH 2462MHz SU / Ant1 (MIMO) NTNv



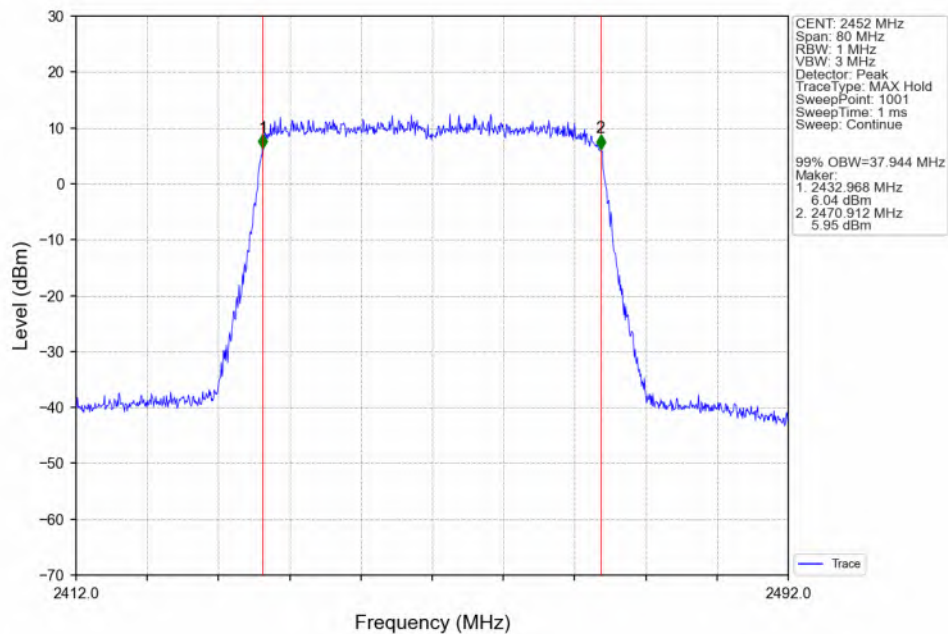
802.11ax(HEW40) LCH 2422MHz SU / Ant1 (MIMO) NTNv



802.11ax(HEW40)\_MCH\_2437MHz\_SU / Ant1 (MIMO)\_NTNV

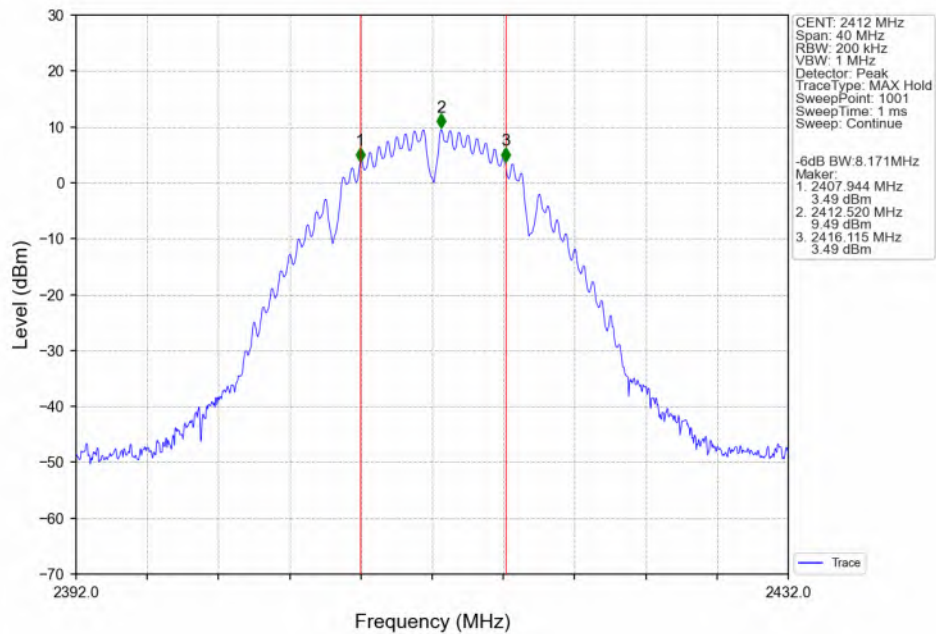


802.11ax(HEW40)\_HCH\_2452MHz\_SU / Ant1 (MIMO)\_NTNV

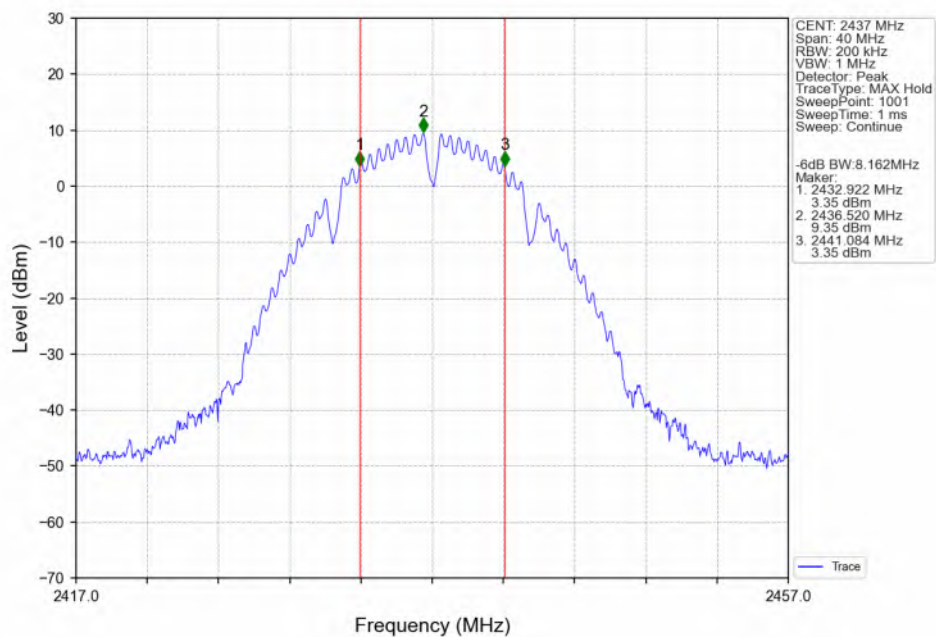


## 2.2.2 6dB BW

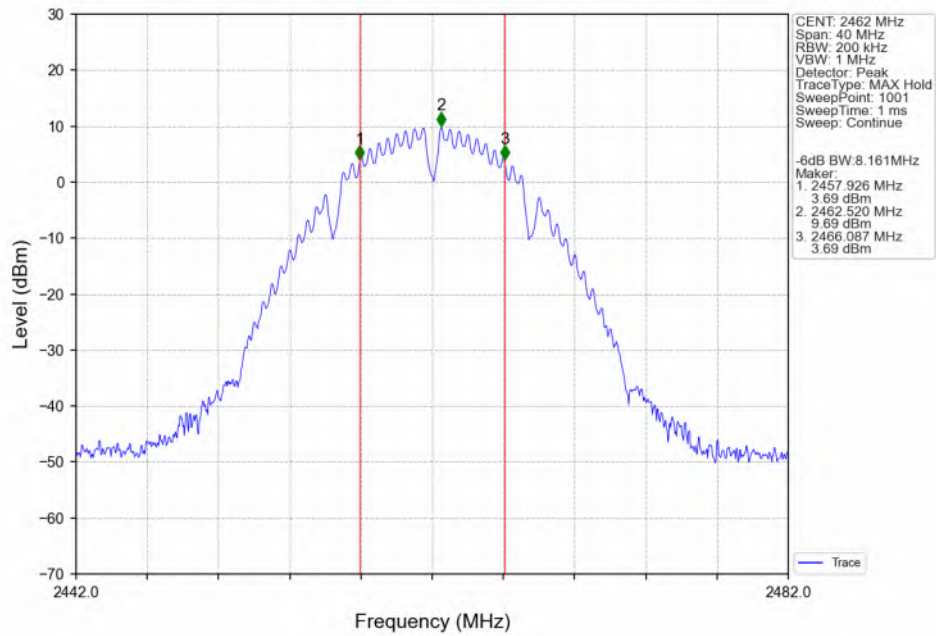
802.11b LCH 2412MHz Ant1 (MIMO) NTN



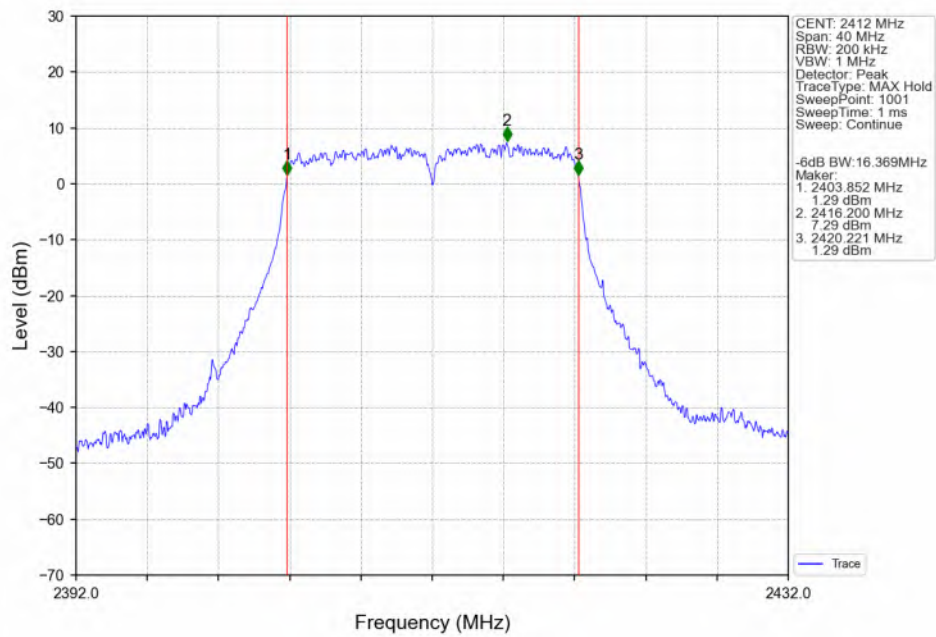
802.11b\_MCH\_2437MHz\_Ant1 (MIMO) NTN



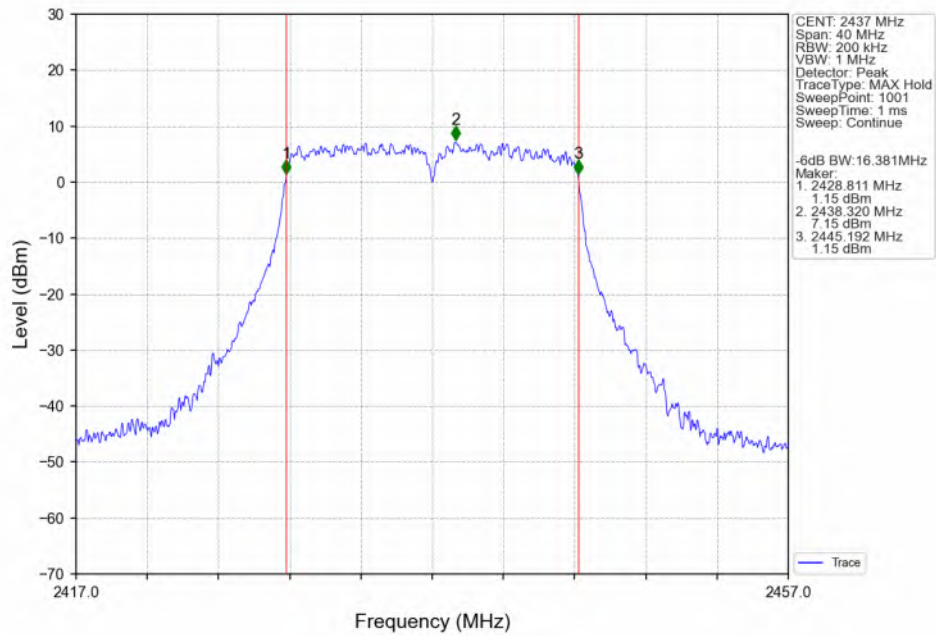
## 802.11b\_HCH\_2462MHz\_Ant1 (MIMO)\_NTNV



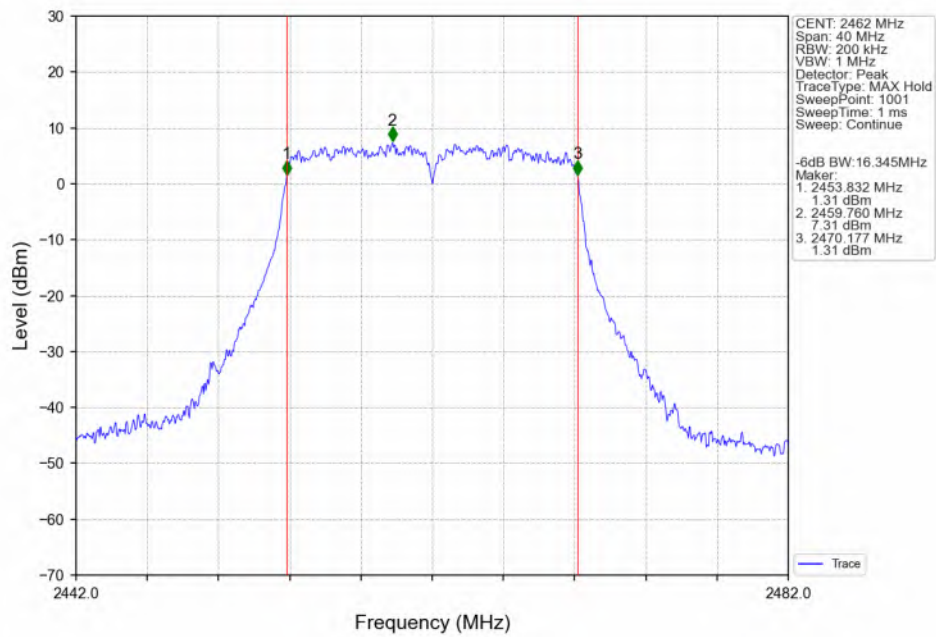
## 802.11g\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



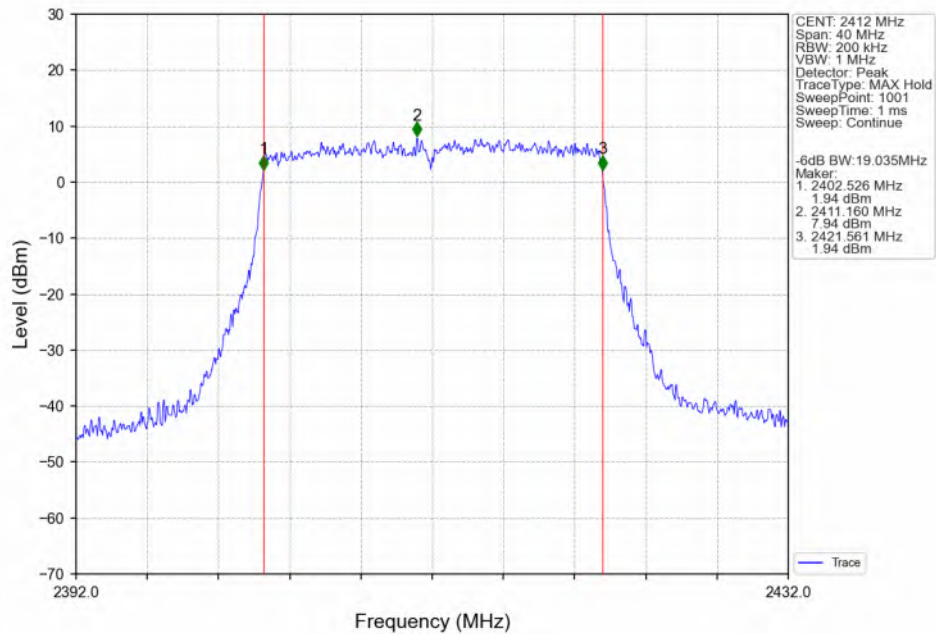
802.11g\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



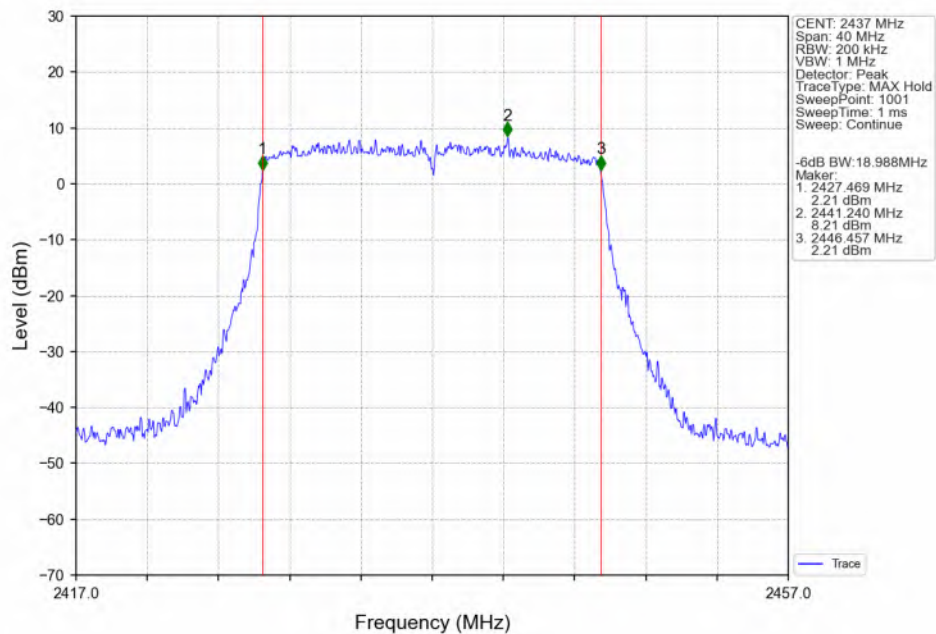
802.11g\_HCH\_2462MHz\_Ant1 (MIMO)\_NTNV



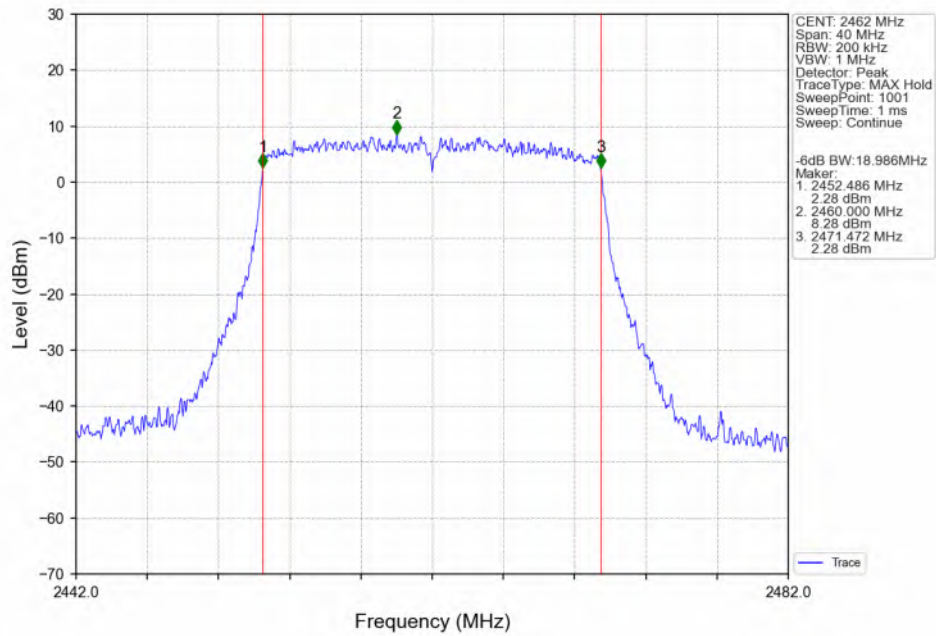
802.11ax(HEW20)\_LCH\_2412MHz\_SU / Ant1 (MIMO)\_NTNV



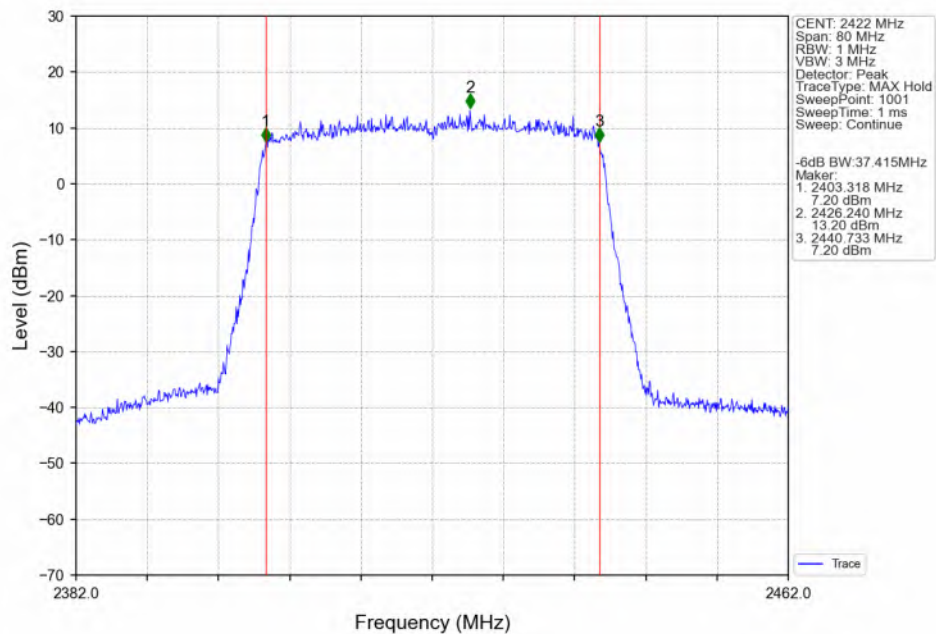
802.11ax(HEW20)\_MCH\_2437MHz\_SU / Ant1 (MIMO)\_NTNV



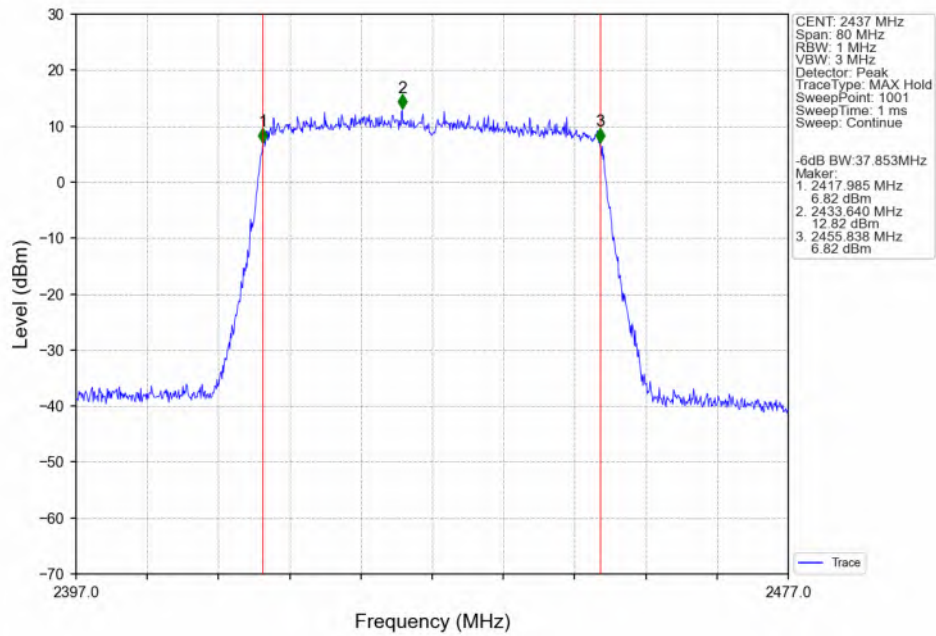
802.11ax(HEW20)\_HCH\_2462MHz\_SU / Ant1 (MIMO)\_NTNV



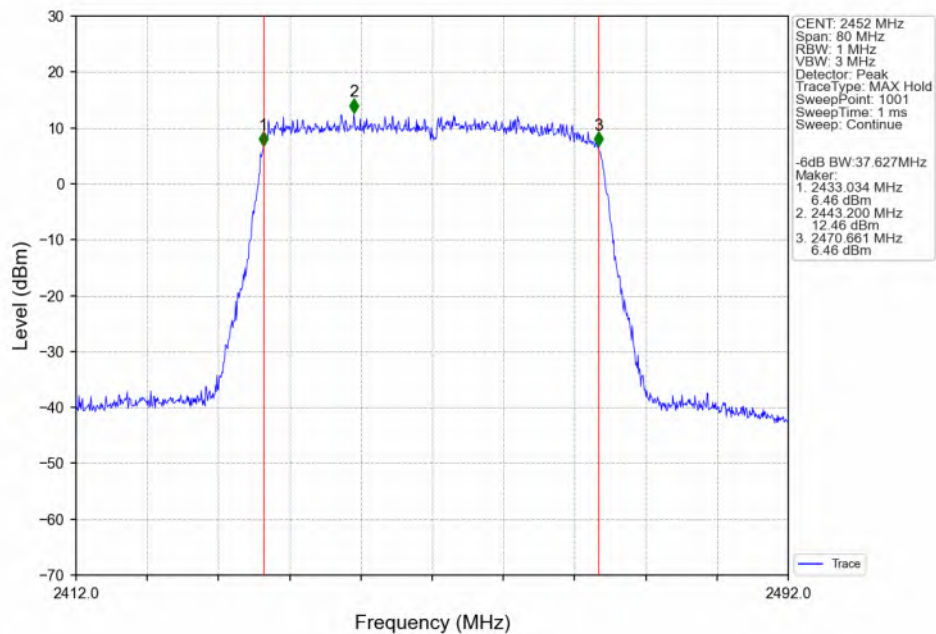
802.11ax(HEW40)\_LCH\_2422MHz\_SU / Ant1 (MIMO)\_NTNV



802.11ax(HEW40)\_MCH\_2437MHz\_SU / Ant1 (MIMO)\_NTNV



802.11ax(HEW40)\_HCH\_2452MHz\_SU / Ant1 (MIMO)\_NTNV



### 3. Maximum Conducted Output Power

#### 3.1 Test Result

##### 3.1.1 Power

| Mode             | TX Type | Frequency (MHz) | RU   | Maximum Peak Conducted Output Power (dBm) |       |       |       | Verdict |
|------------------|---------|-----------------|------|-------------------------------------------|-------|-------|-------|---------|
|                  |         |                 |      | ANT1                                      | ANT2  | MIMO  | Limit |         |
| 802.11b          | MIMO    | 2412            | /    | 19.63                                     | 19.78 | 22.72 | <=30  | Pass    |
|                  |         | 2437            | /    | 19.42                                     | 19.80 | 22.62 | <=30  | Pass    |
|                  |         | 2462            | /    | 19.77                                     | 19.79 | 22.79 | <=30  | Pass    |
| 802.11g          | MIMO    | 2412            | /    | 24.67                                     | 25.41 | 28.07 | <=30  | Pass    |
|                  |         | 2437            | /    | 24.75                                     | 25.31 | 28.05 | <=30  | Pass    |
|                  |         | 2462            | /    | 24.80                                     | 25.33 | 28.08 | <=30  | Pass    |
| 802.11n (HT20)   | MIMO    | 2412            | /    | 24.09                                     | 24.84 | 27.49 | <=30  | Pass    |
|                  |         | 2437            | /    | 24.55                                     | 25.12 | 27.85 | <=30  | Pass    |
|                  |         | 2462            | /    | 24.42                                     | 24.81 | 27.63 | <=30  | Pass    |
| 802.11n (HT40)   | MIMO    | 2422            | /    | 23.61                                     | 23.90 | 26.77 | <=30  | Pass    |
|                  |         | 2437            | /    | 23.61                                     | 23.81 | 26.72 | <=30  | Pass    |
|                  |         | 2452            | /    | 23.67                                     | 23.82 | 26.76 | <=30  | Pass    |
| 802.11ax (HEW20) | MIMO    | 2412            | RU26 | 15.04                                     | 15.18 | 18.12 | <=30  | Pass    |
|                  |         |                 | SU   | 24.86                                     | 25.38 | 28.14 | <=30  | Pass    |
|                  |         | 2437            | RU26 | 14.18                                     | 14.10 | 17.15 | <=30  | Pass    |
|                  |         |                 | SU   | 24.83                                     | 25.18 | 28.02 | <=30  | Pass    |
|                  |         | 2462            | RU26 | 15.19                                     | 14.89 | 18.05 | <=30  | Pass    |
|                  |         |                 | SU   | 25.14                                     | 25.35 | 28.26 | <=30  | Pass    |
| 802.11ax (HEW40) | MIMO    | 2422            | SU   | 23.75                                     | 24.08 | 26.93 | <=30  | Pass    |
|                  |         | 2437            | SU   | 23.85                                     | 23.85 | 26.86 | <=30  | Pass    |
|                  |         | 2452            | SU   | 23.89                                     | 23.93 | 26.92 | <=30  | Pass    |

## 4. Maximum Power Spectral Density

### 4.1 Test Result

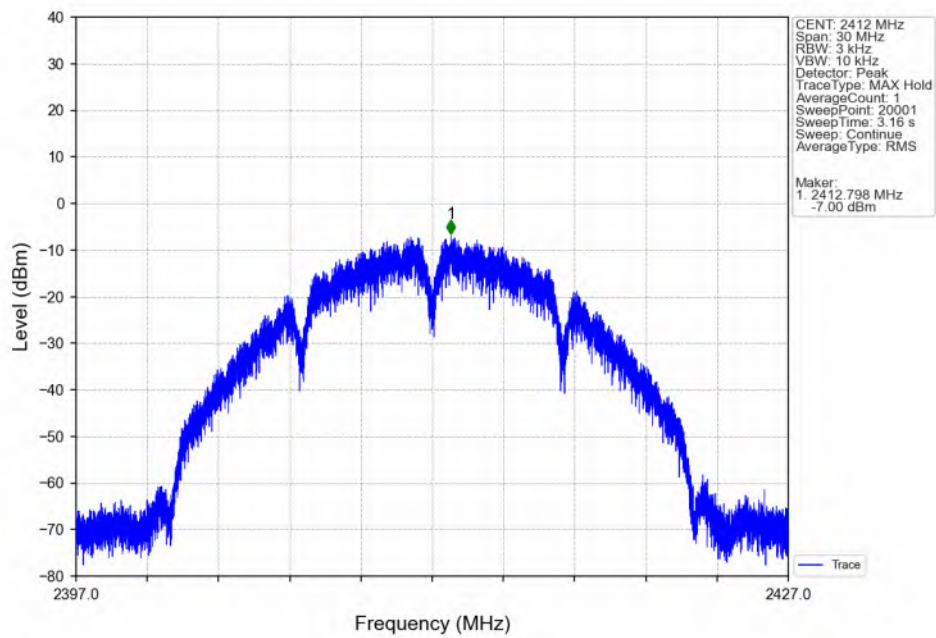
#### 4.1.1 PSD

| Mode             | TX Type | Frequency (MHz) | RU   | Maximum PSD (dBm) |                |                |                 | Verdict |
|------------------|---------|-----------------|------|-------------------|----------------|----------------|-----------------|---------|
|                  |         |                 |      | ANT1              | ANT2           | MIMO           | Limit(dBm/3kHz) |         |
| 802.11b          | MIMO    | 2412            | /    | -7.00dBm/3kHz     | -6.82dBm/3kHz  | -3.91dBm/3kHz  | <=8             | Pass    |
|                  |         | 2437            | /    | -7.20dBm/3kHz     | -7.02dBm/3kHz  | -4.50dBm/3kHz  | <=8             | Pass    |
|                  |         | 2462            | /    | -4.77dBm/3kHz     | -5.14dBm/3kHz  | -1.94dBm/3kHz  | <=8             | Pass    |
| 802.11g          | MIMO    | 2412            | /    | -8.68dBm/3kHz     | -9.51dBm/3kHz  | -7.51dBm/3kHz  | <=8             | Pass    |
|                  |         | 2437            | /    | -9.74dBm/3kHz     | -9.90dBm/3kHz  | -7.67dBm/3kHz  | <=8             | Pass    |
|                  |         | 2462            | /    | -10.02dBm/3kHz    | -9.52dBm/3kHz  | -8.12dBm/3kHz  | <=8             | Pass    |
| 802.11ax (HEW20) | MIMO    | 2412            | RU26 | -11.57dBm/3kHz    | -11.56dBm/3kHz | -8.55dBm/3kHz  | <=8             | Pass    |
|                  |         |                 | SU   | -9.34dBm/3kHz     | -9.35dBm/3kHz  | -7.38dBm/3kHz  | <=8             | Pass    |
|                  |         | 2437            | RU26 | -11.18dBm/3kHz    | -11.09dBm/3kHz | -9.38dBm/3kHz  | <=8             | Pass    |
|                  |         |                 | SU   | -9.46dBm/3kHz     | -9.54dBm/3kHz  | -8.19dBm/3kHz  | <=8             | Pass    |
|                  |         | 2462            | RU26 | -11.60dBm/3kHz    | -11.51dBm/3kHz | -8.98dBm/3kHz  | <=8             | Pass    |
|                  |         |                 | SU   | -9.66dBm/3kHz     | -9.17dBm/3kHz  | -7.24dBm/3kHz  | <=8             | Pass    |
| 802.11ax (HEW40) | MIMO    | 2422            | SU   | -12.73dBm/3kHz    | -12.45dBm/3kHz | -11.08dBm/3kHz | <=8             | Pass    |
|                  |         | 2437            | SU   | -13.03dBm/3kHz    | -12.13dBm/3kHz | -10.92dBm/3kHz | <=8             | Pass    |
|                  |         | 2452            | SU   | -11.38dBm/3kHz    | -13.10dBm/3kHz | -11.14dBm/3kHz | <=8             | Pass    |

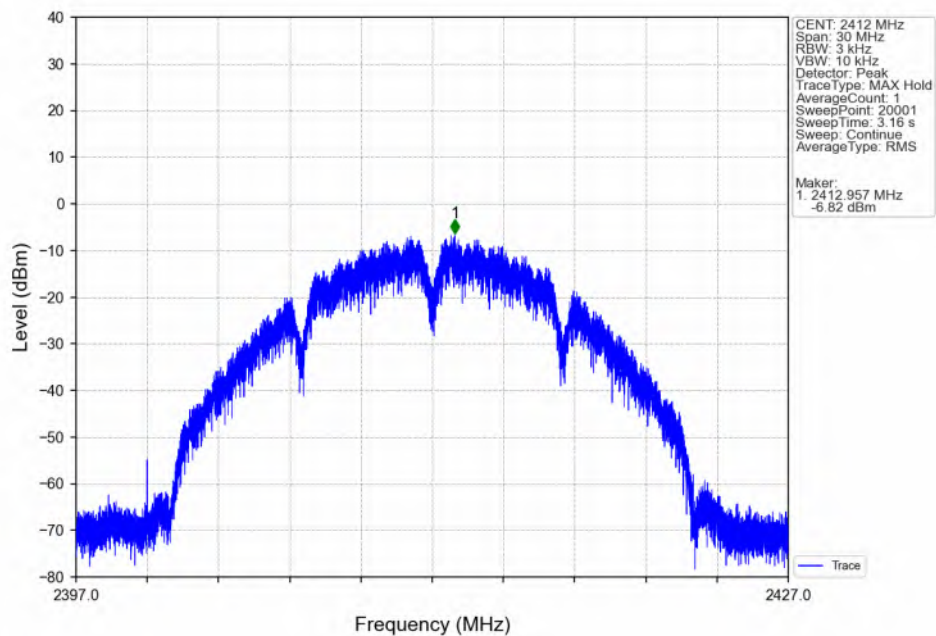
## 4.2 Test Graph

### 4.2.1 PSD

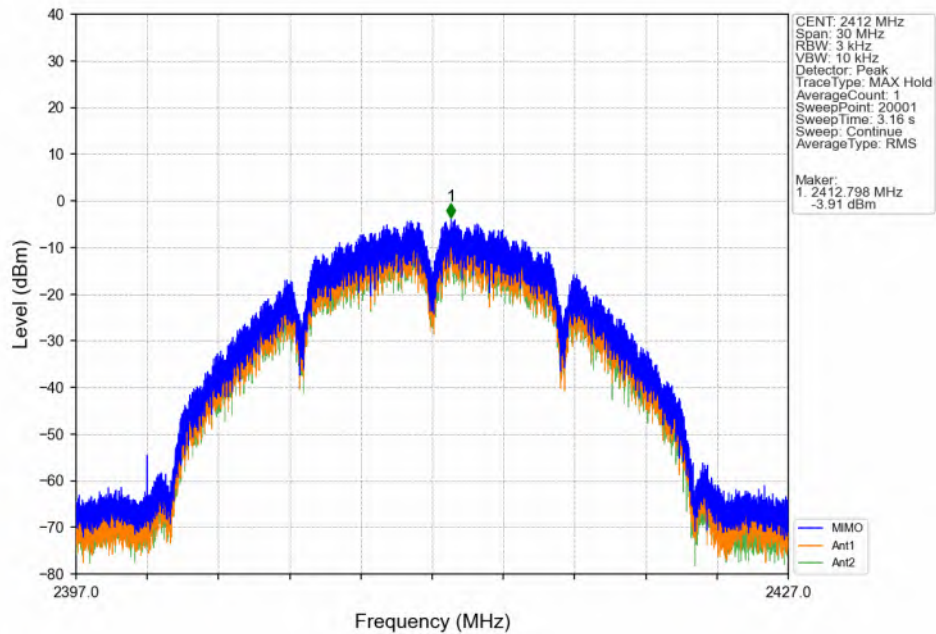
802.11b\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



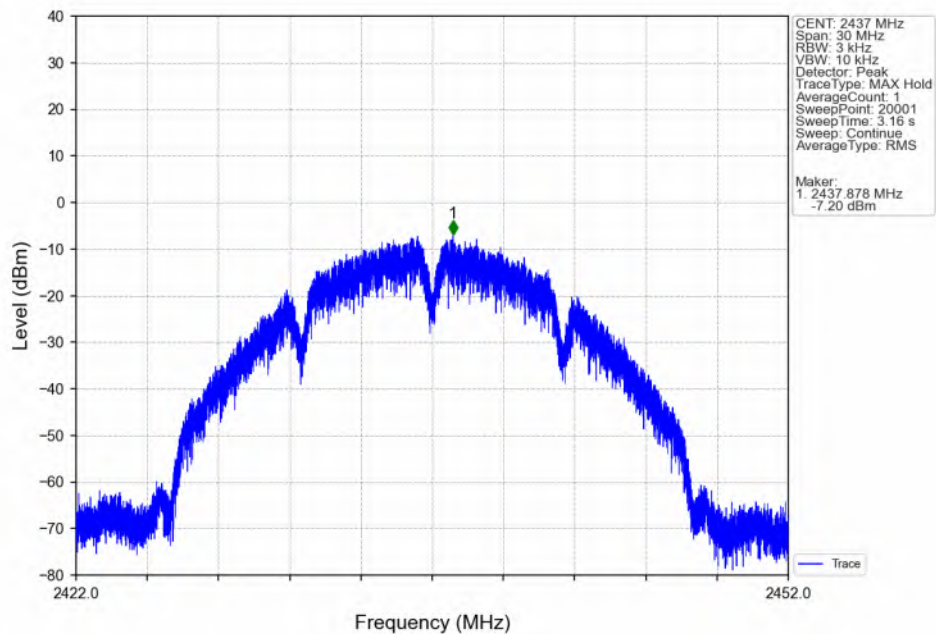
802.11b\_LCH\_2412MHz\_Ant2 (MIMO)\_NTNV



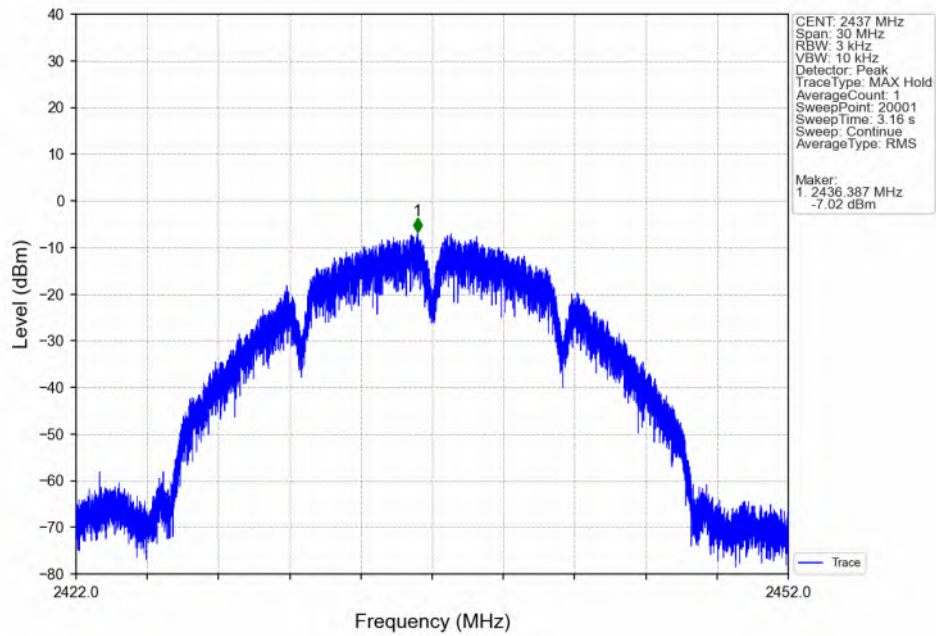
## 802.11b\_LCH\_2412MHz\_MIMO\_NTNV



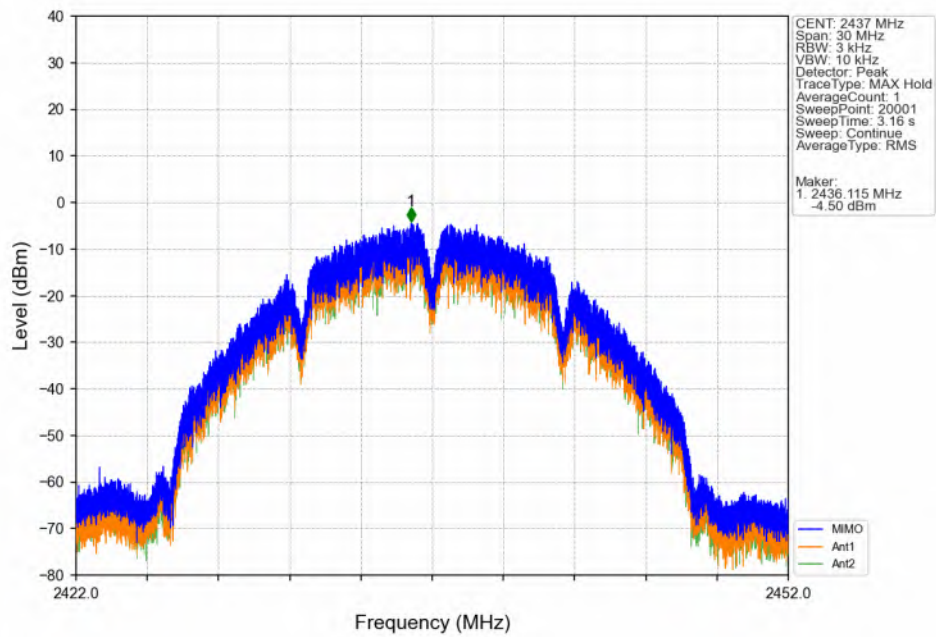
## 802.11b\_MCH\_2437MHz\_Ant1 (MIMO) NTN



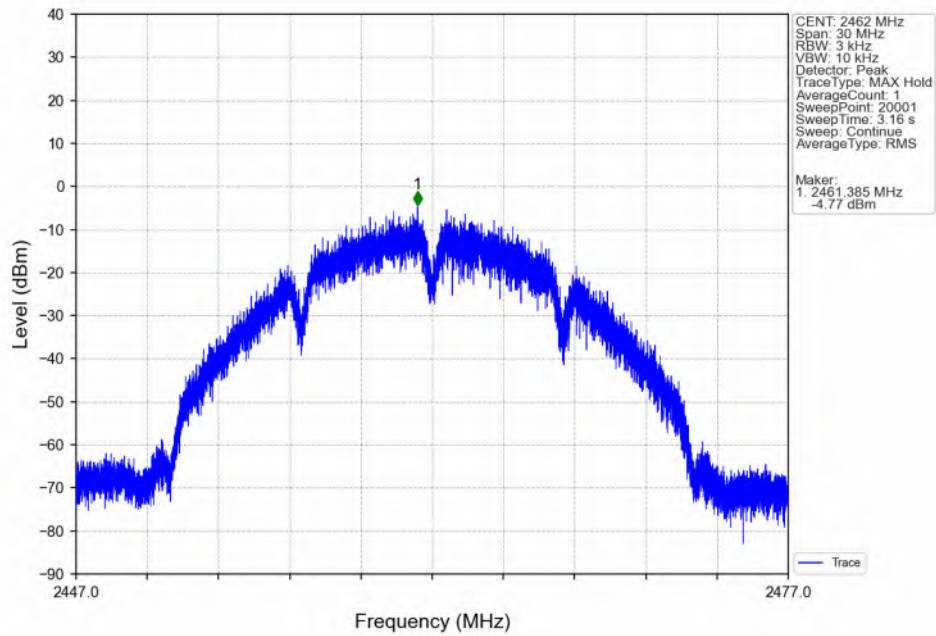
802.11b\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV



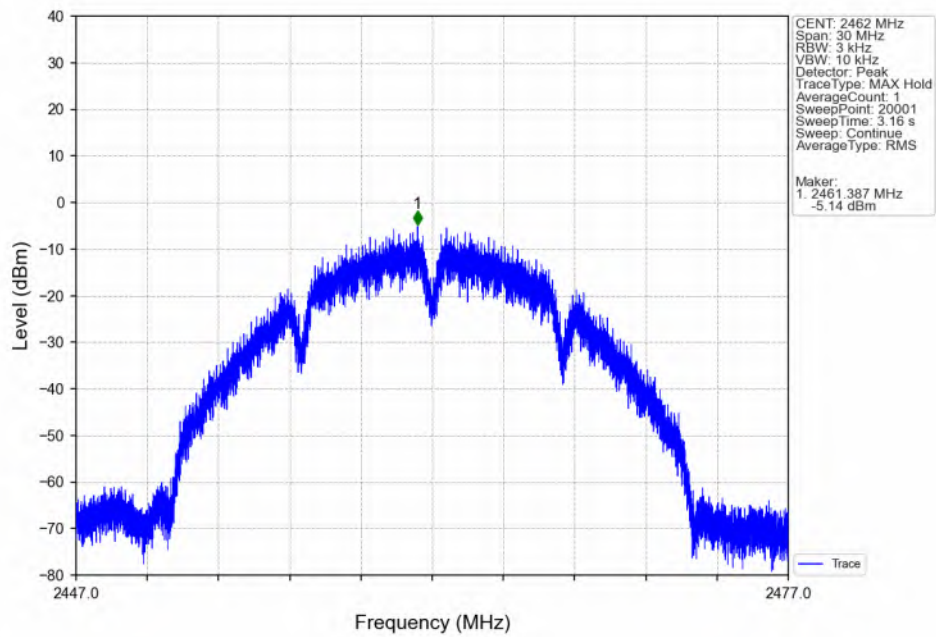
802.11b\_MCH\_2437MHz\_MIMO\_NTNV



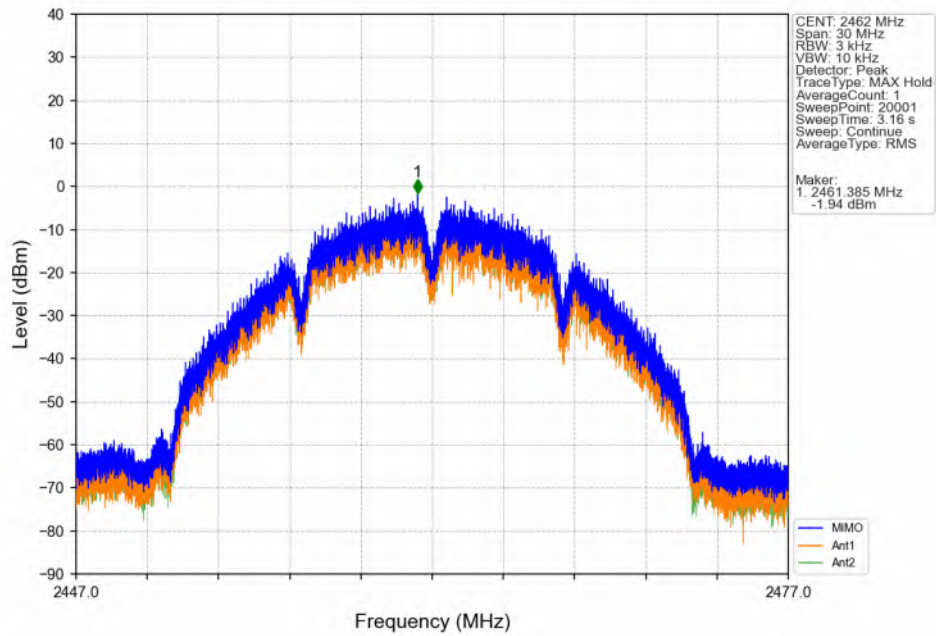
802.11b\_HCH\_2462MHz\_Ant1 (MIMO)\_NTNV



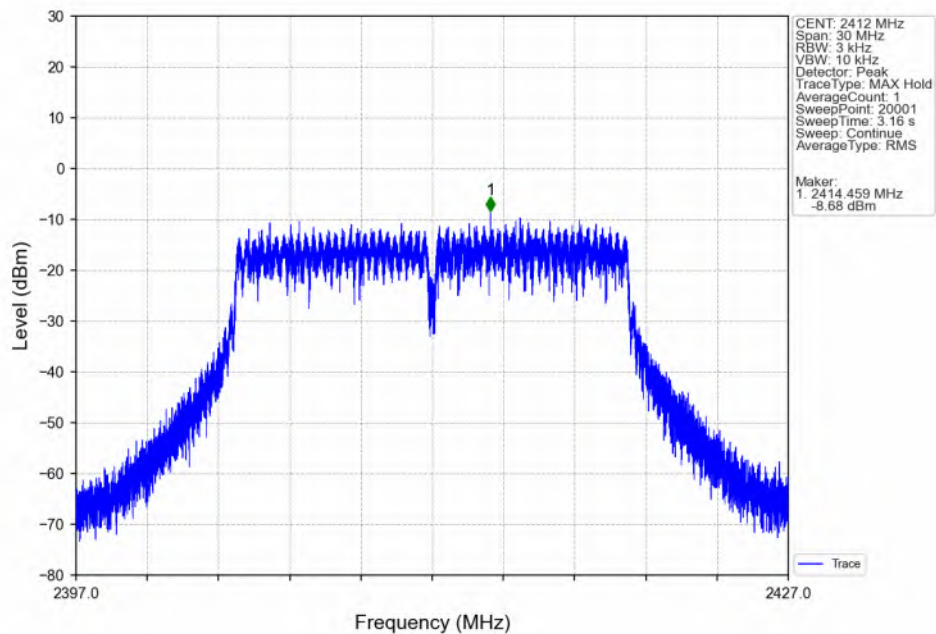
802.11b\_HCH\_2462MHz\_Ant2 (MIMO)\_NTNV



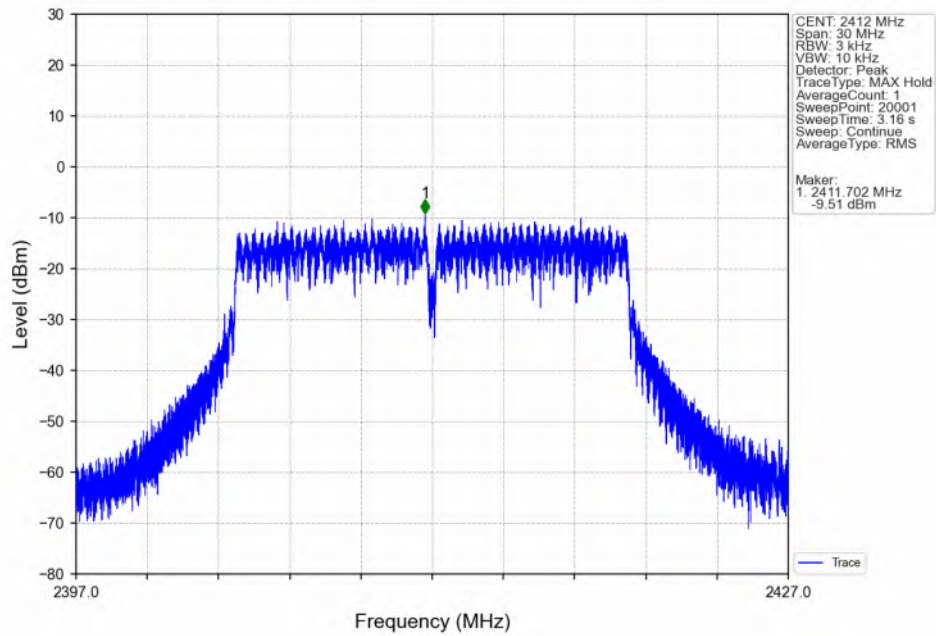
## 802.11b\_HCH\_2462MHz\_MIMO\_NTNV



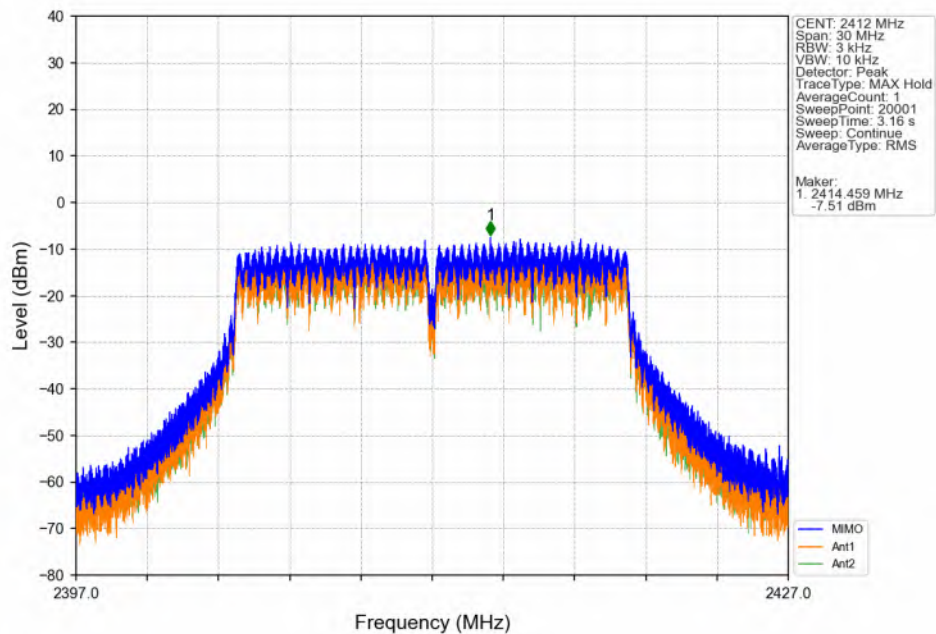
## 802.11g\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



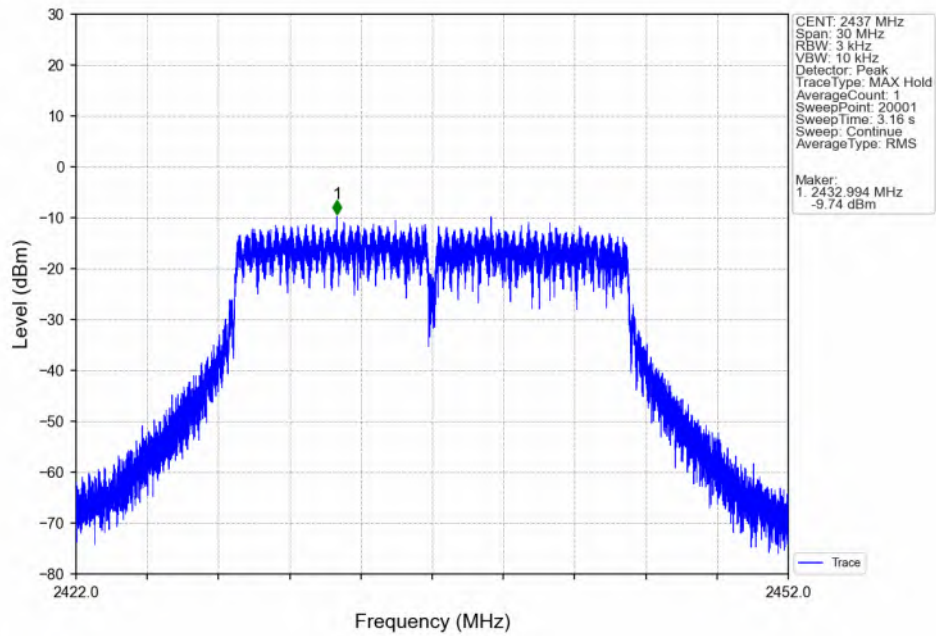
802.11g\_LCH\_2412MHz\_Ant2 (MIMO)\_NTNV



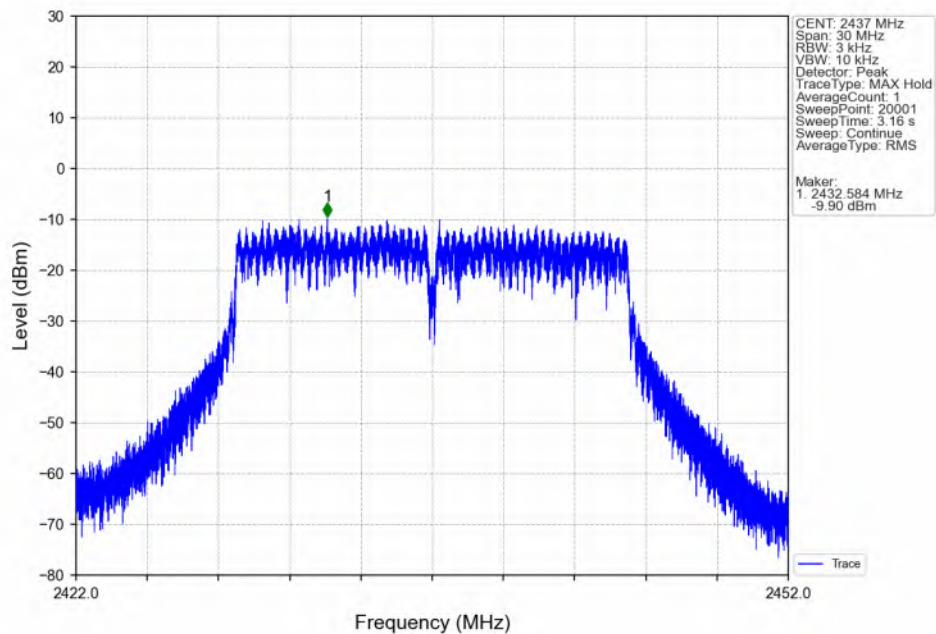
802.11g\_LCH\_2412MHz\_MIMO\_NTNV



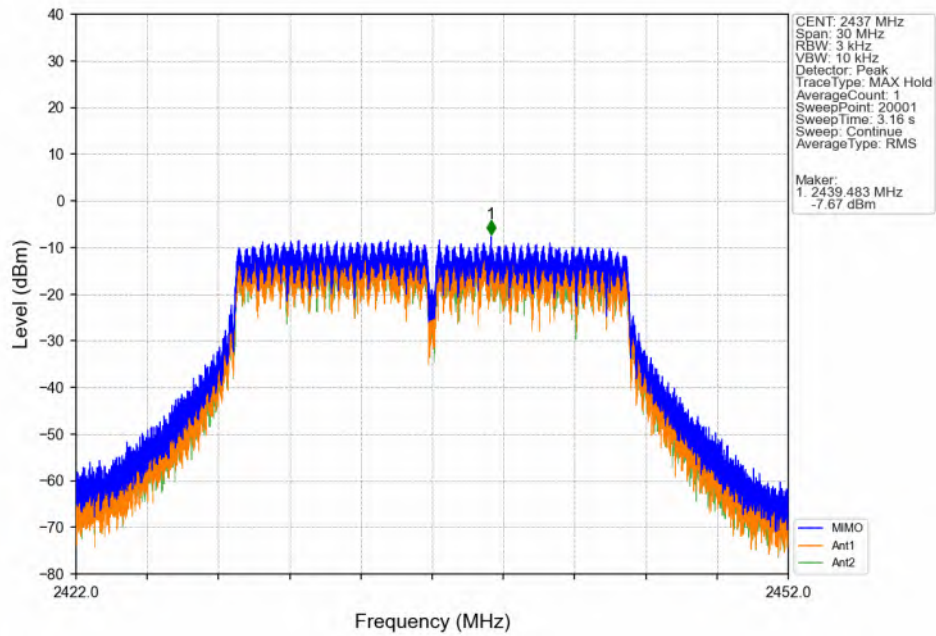
802.11g\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



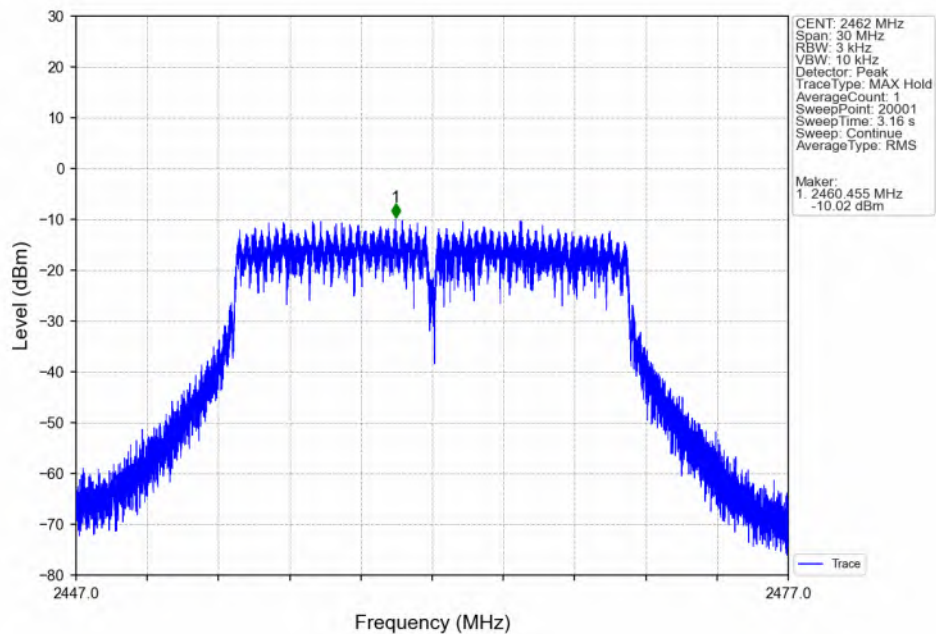
802.11g\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV



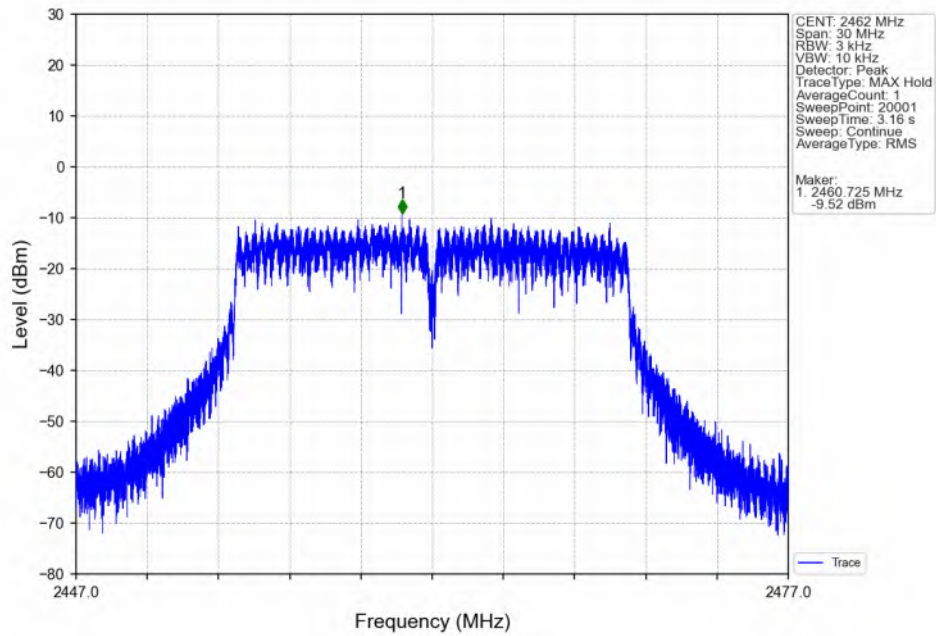
## 802.11g\_MCH\_2437MHz\_MIMO\_NTNV



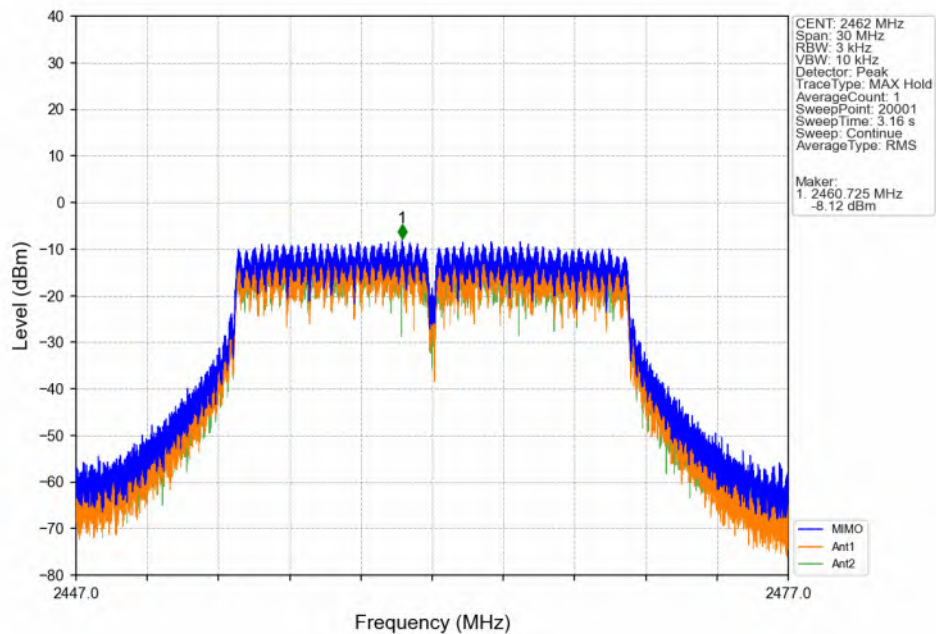
## 802.11g\_HCH\_2462MHz\_Ant1 (MIMO)\_NTNV



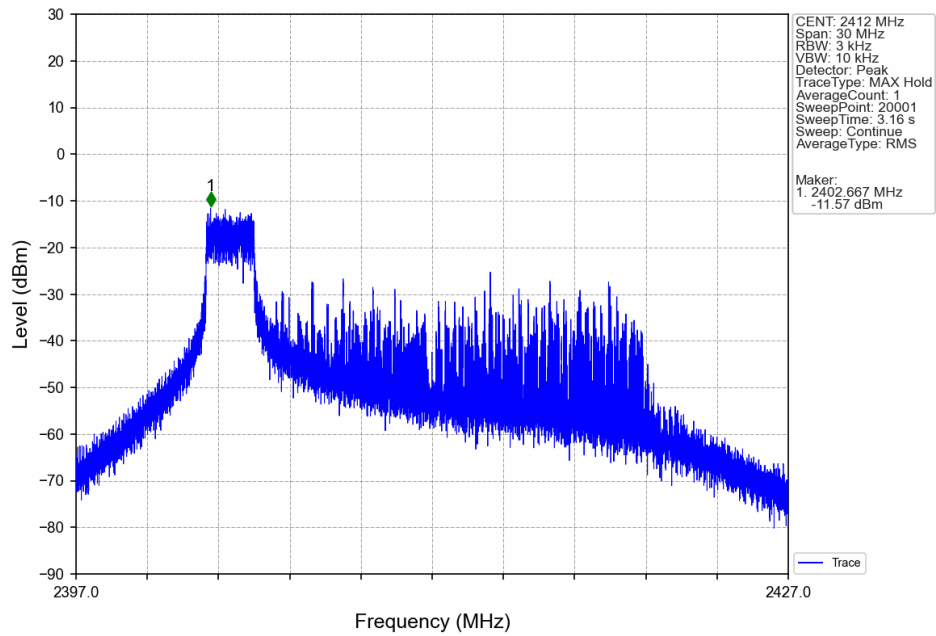
802.11g\_HCH\_2462MHz\_Ant2 (MIMO)\_NTNV



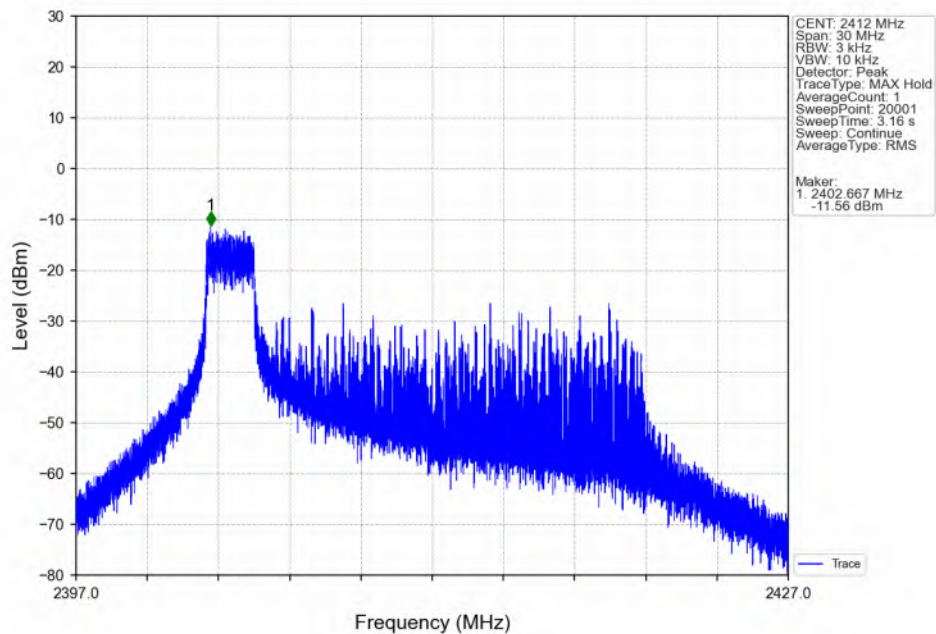
802.11g\_HCH\_2462MHz\_MIMO\_NTNV



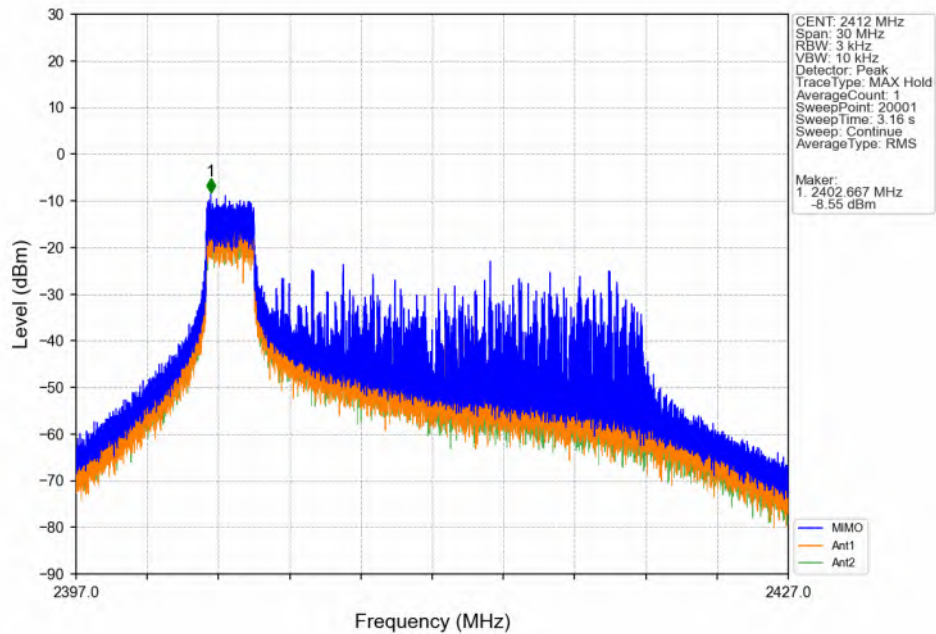
802.11ax(HEW20) LCH\_2412MHz\_RU26\_Ant1 (MIMO) NTNv



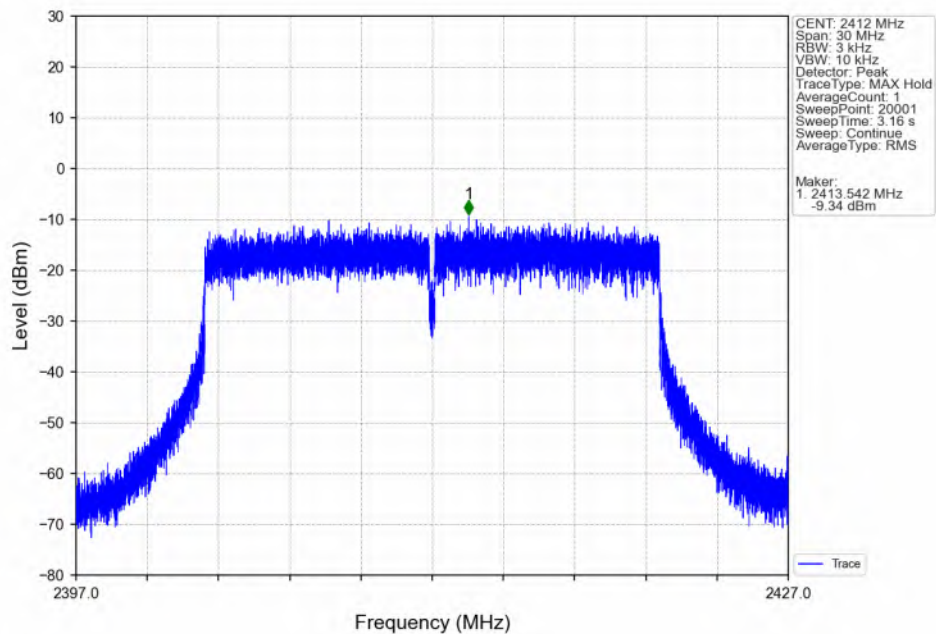
802.11ax(HEW20) LCH\_2412MHz\_RU26\_Ant2 (MIMO) NTNv



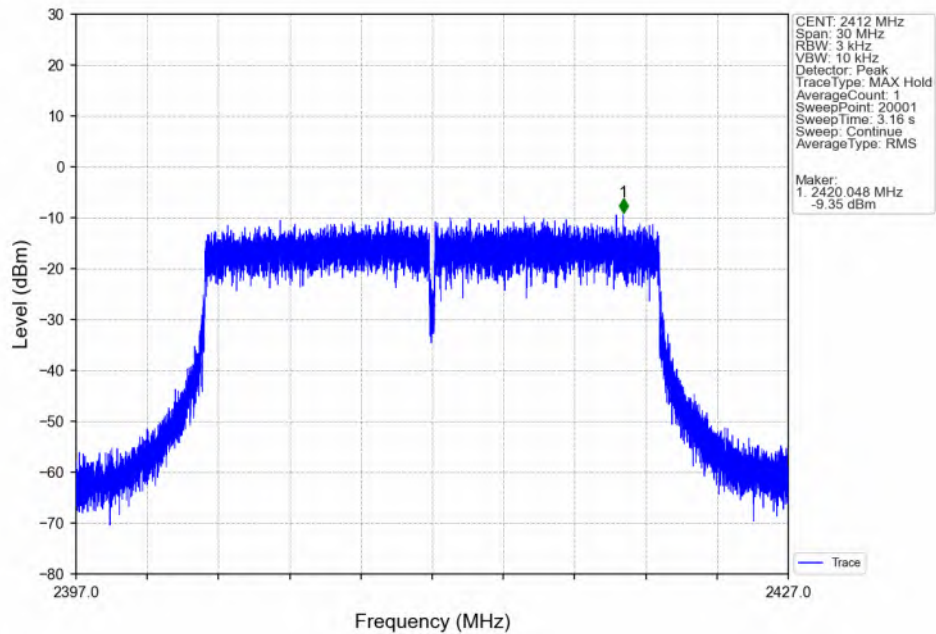
## 802.11ax(HEW20)\_LCH\_2412MHz\_RU26\_MIMO\_NTNV



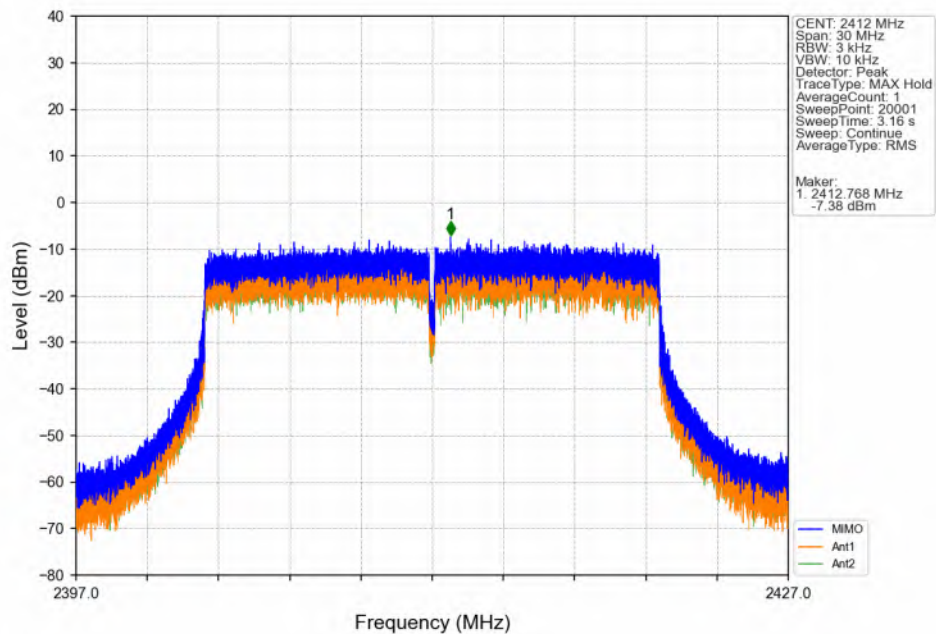
## 802.11ax(HEW20)\_LCH\_2412MHz\_SU / Ant1 (MIMO)\_NTNV



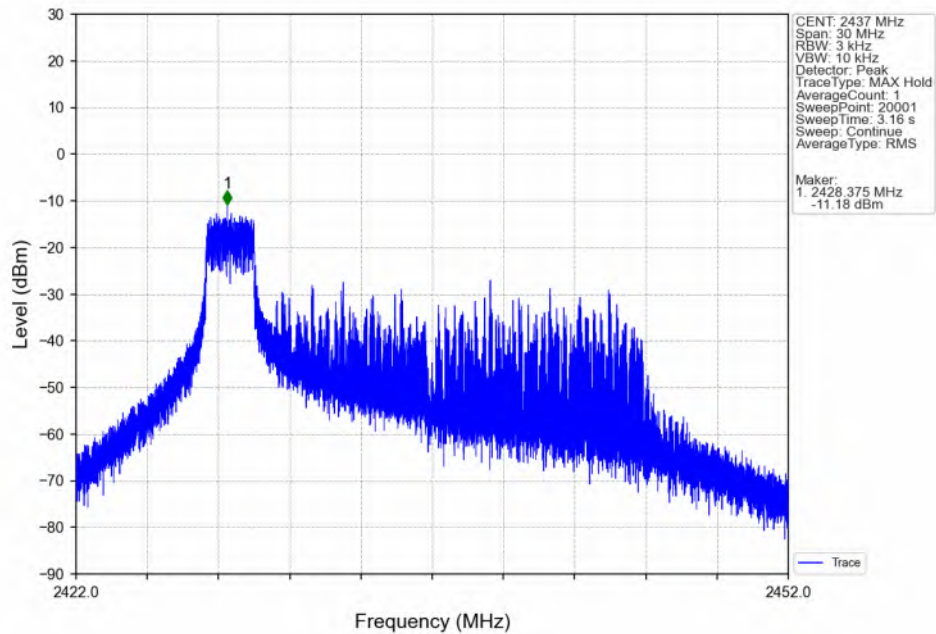
## 802.11ax(HEW20) LCH 2412MHz SU / Ant2 (MIMO) NTN



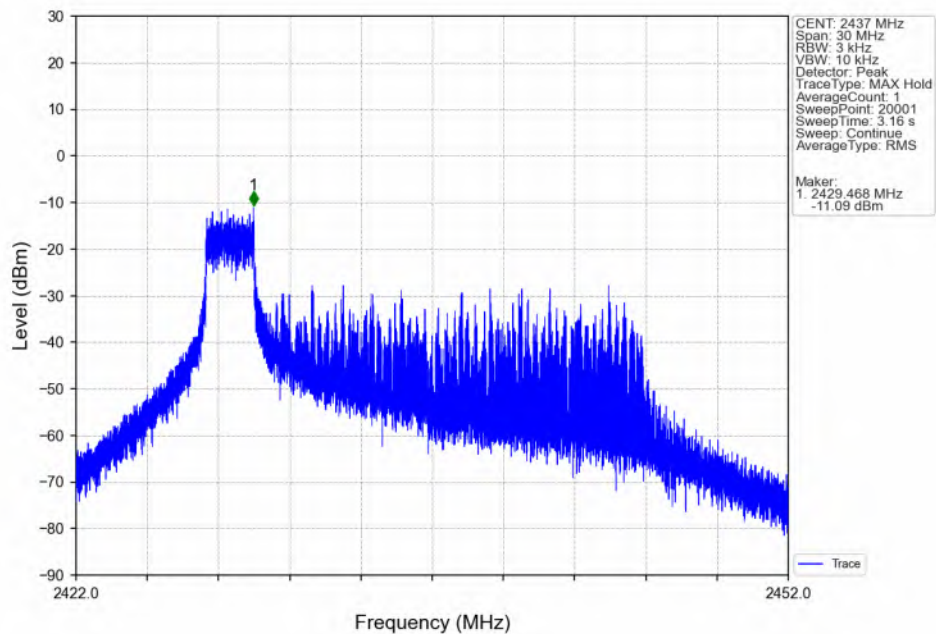
## 802.11ax(HEW20) LCH 2412MHz SU / MIMO NTN



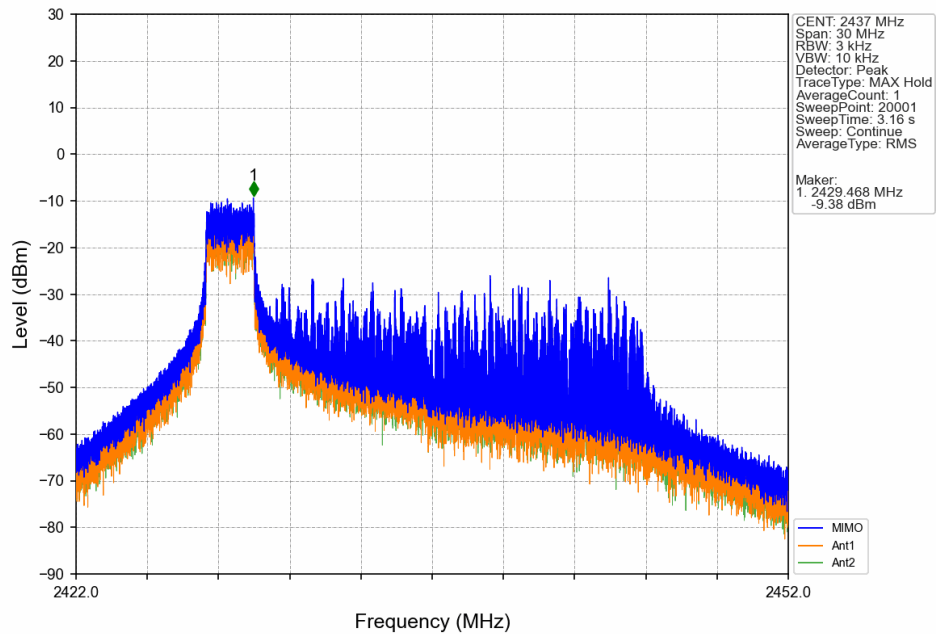
802.11ax(HEW20)\_MCH\_2437MHz\_RU26\_Ant1 (MIMO)\_NTNV



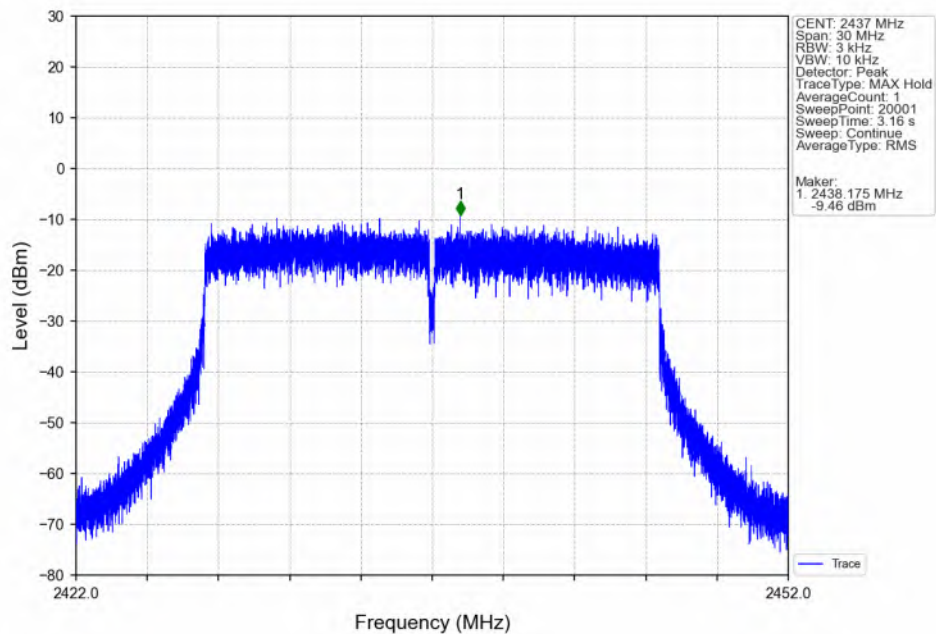
802.11ax(HEW20)\_MCH\_2437MHz\_RU26\_Ant2 (MIMO)\_NTNV



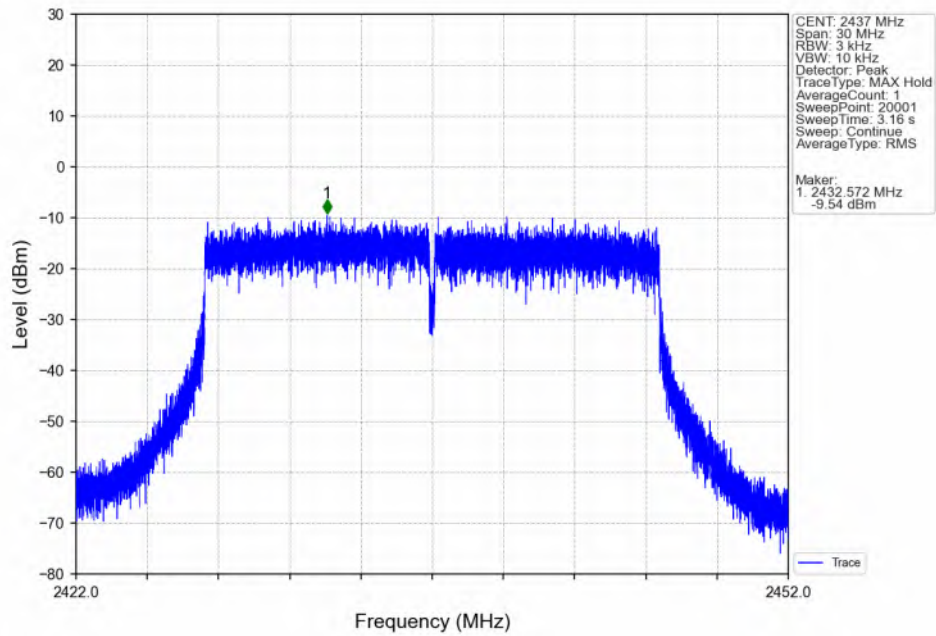
## 802.11ax(HEW20)\_MCH\_2437MHz\_RU26\_MIMO\_NTNV



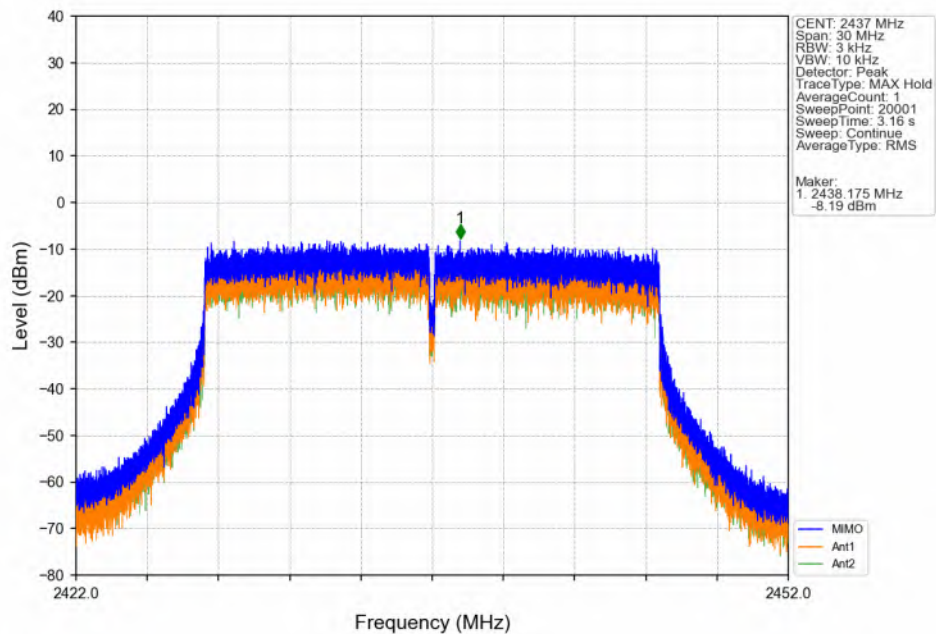
## 802.11ax(HEW20)\_MCH\_2437MHz\_SU / Ant1 (MIMO) NTN



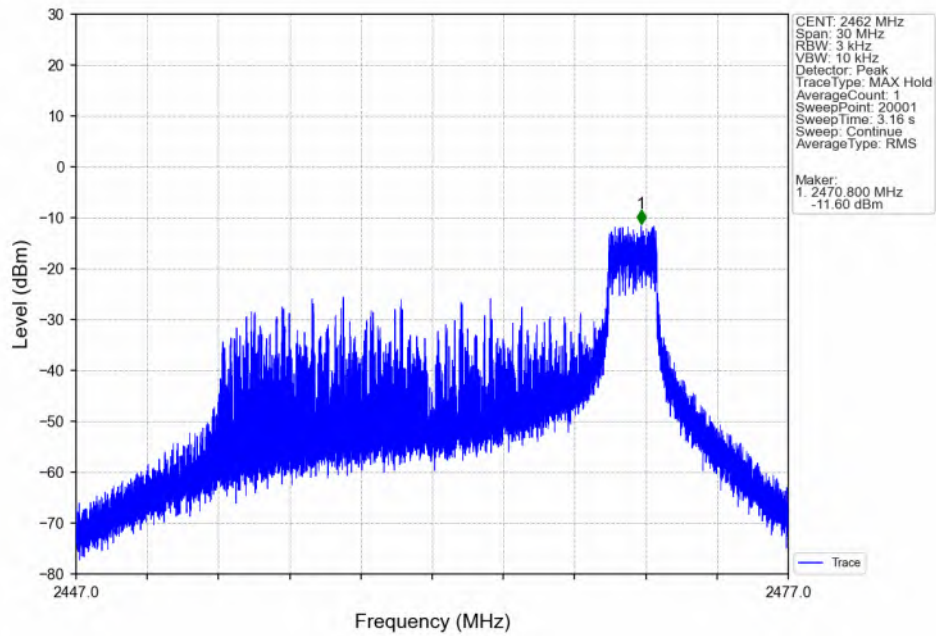
802.11ax(HEW20)\_MCH\_2437MHz\_SU / Ant2 (MIMO)\_NTNV



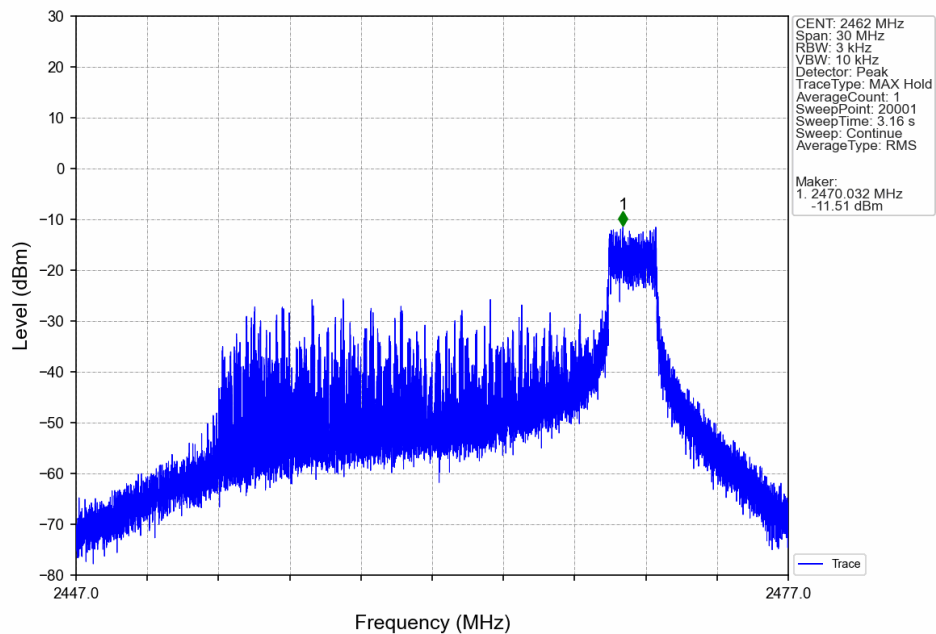
802.11ax(HEW20)\_MCH\_2437MHz\_SU / MIMO\_NTNV



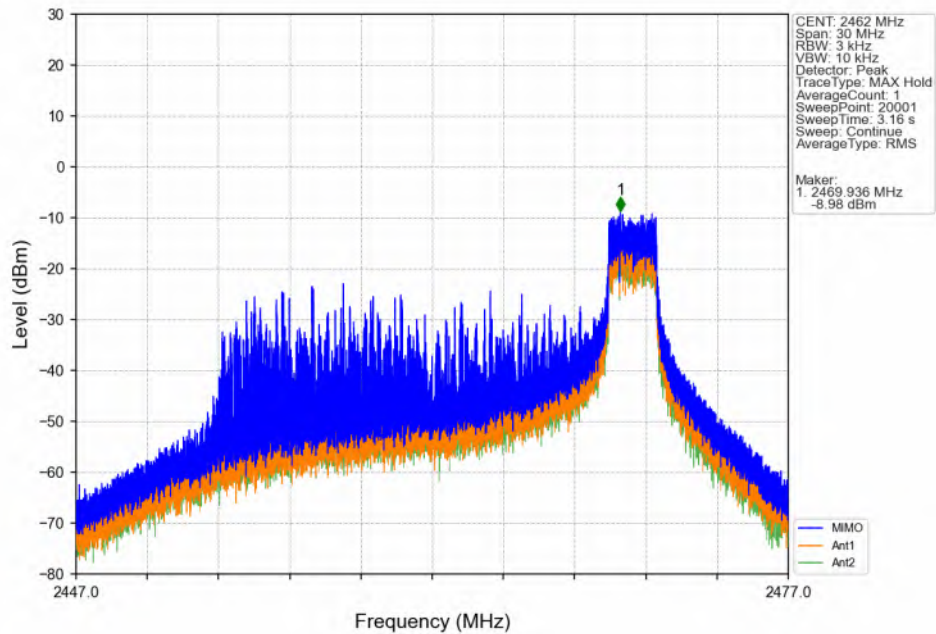
802.11ax(HEW20)\_HCH\_2462MHz\_RU26\_Ant1 (MIMO)\_NTNV



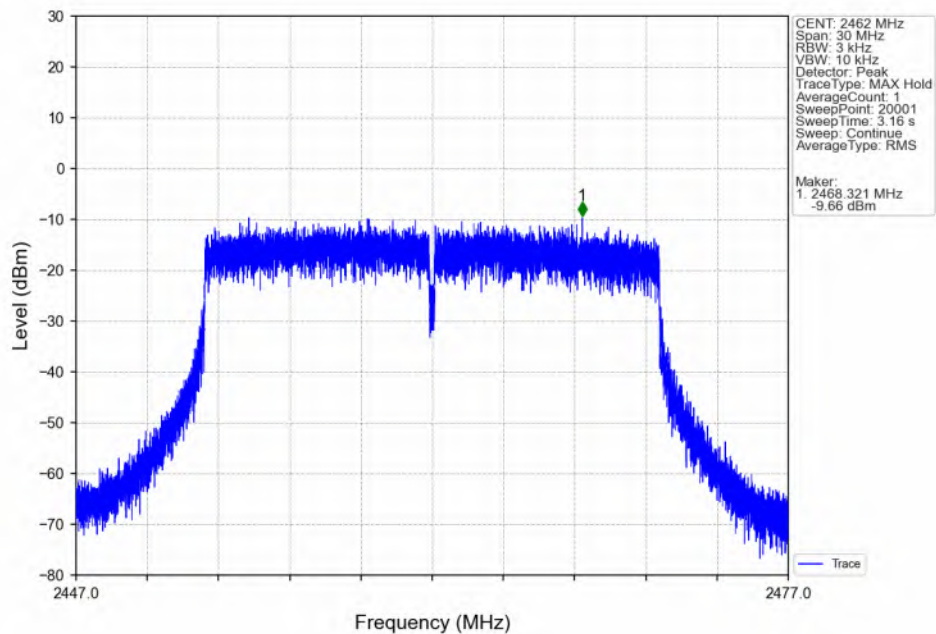
802.11ax(HEW20)\_HCH\_2462MHz\_RU26\_Ant2 (MIMO)\_NTNV



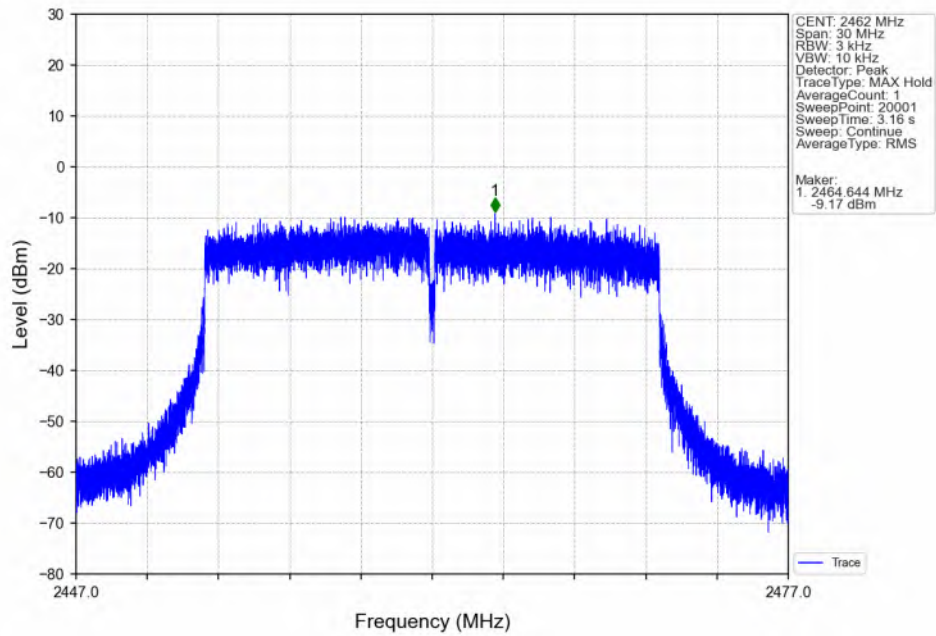
## 802.11ax(HEW20) HCH\_2462MHz\_RU26\_MIMO\_NTNV



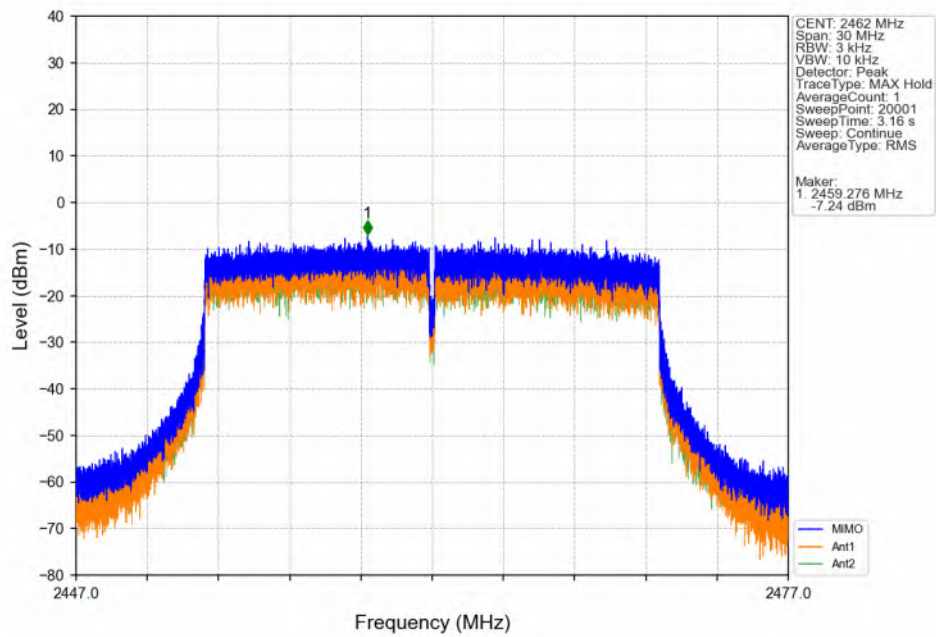
## 802.11ax(HEW20) HCH\_2462MHz\_SU / Ant1 (MIMO) NTN



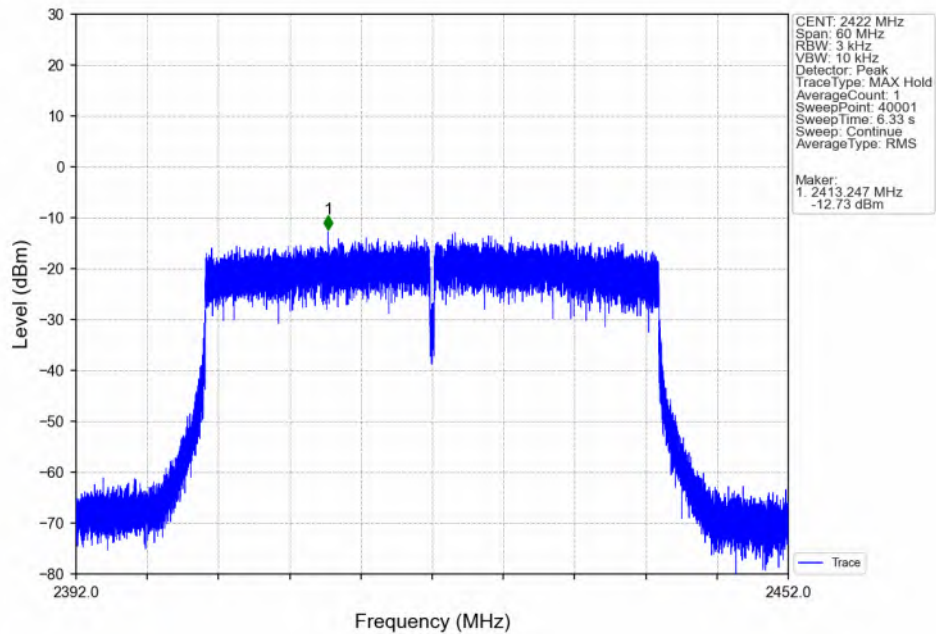
## 802.11ax(HEW20)\_HCH\_2462MHz\_SU / Ant2 (MIMO)\_NTNV



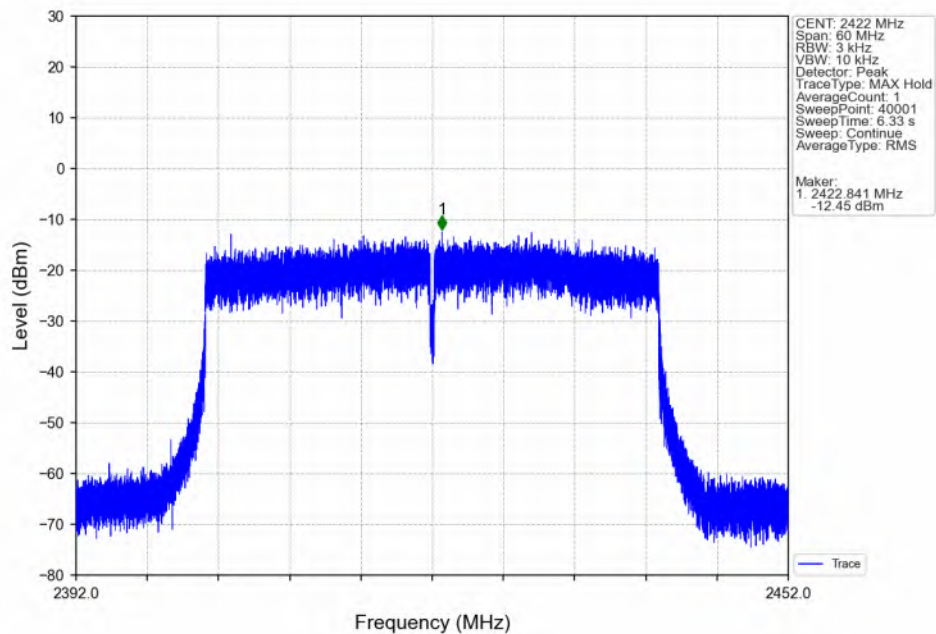
## 802.11ax(HEW20)\_HCH\_2462MHz\_SU / MIMO\_NTNV



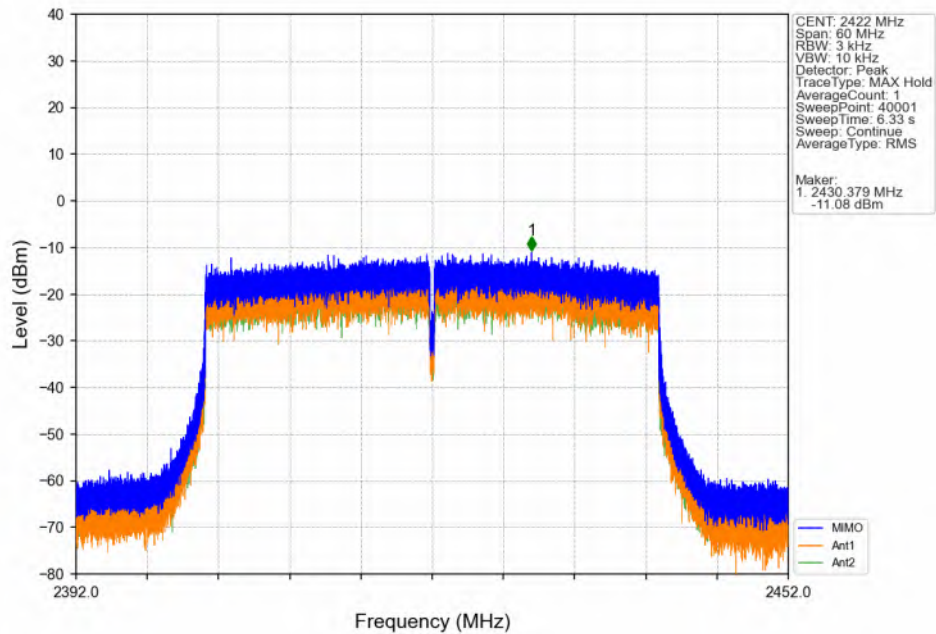
802.11ax(HEW40)\_LCH\_2422MHz\_SU\_/\_Ant1 (MIMO)\_NTNV



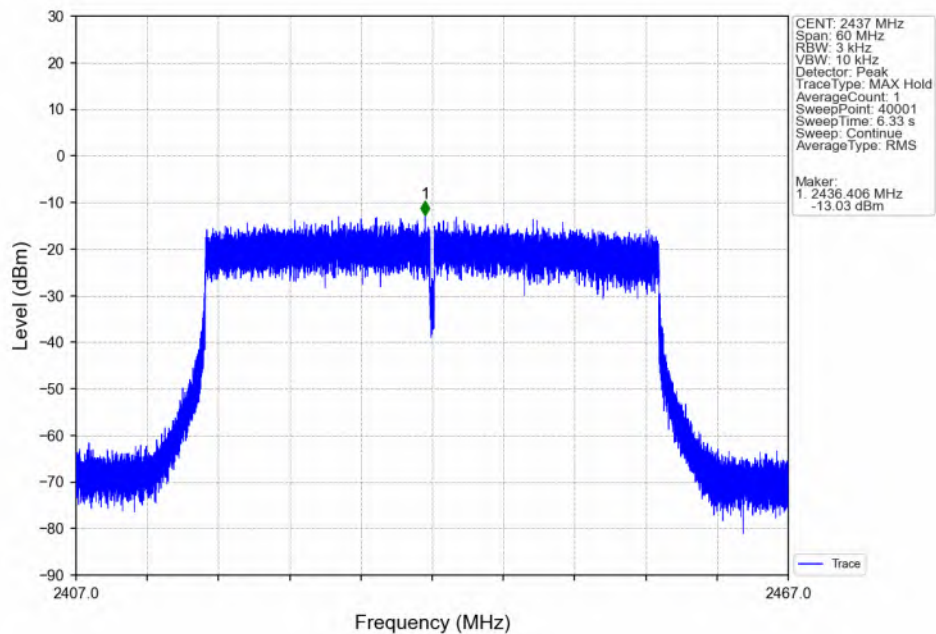
802.11ax(HEW40)\_LCH\_2422MHz\_SU\_/\_Ant2 (MIMO)\_NTNV



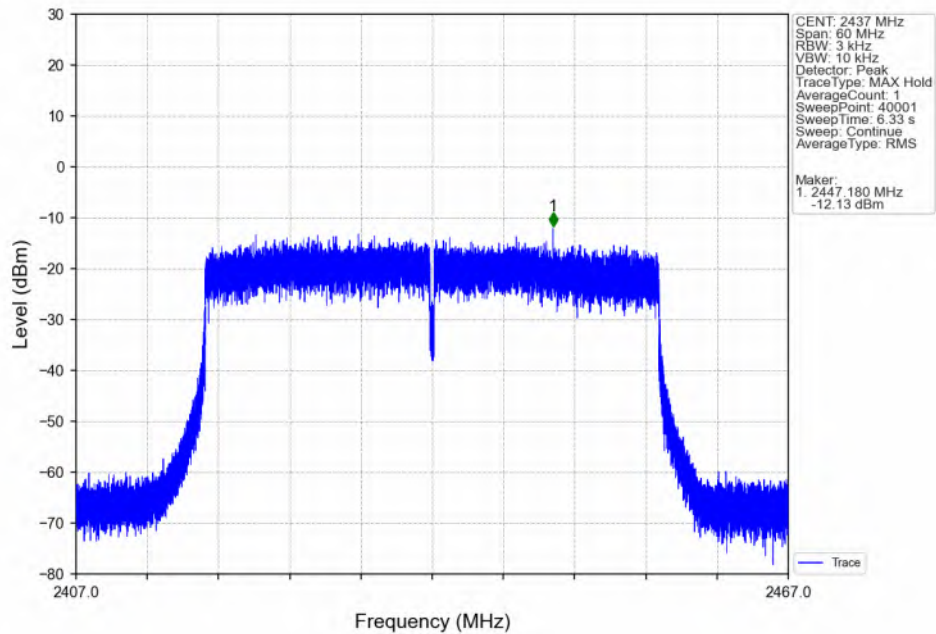
## 802.11ax(HEW40) LCH 2422MHz SU / MIMO NTN



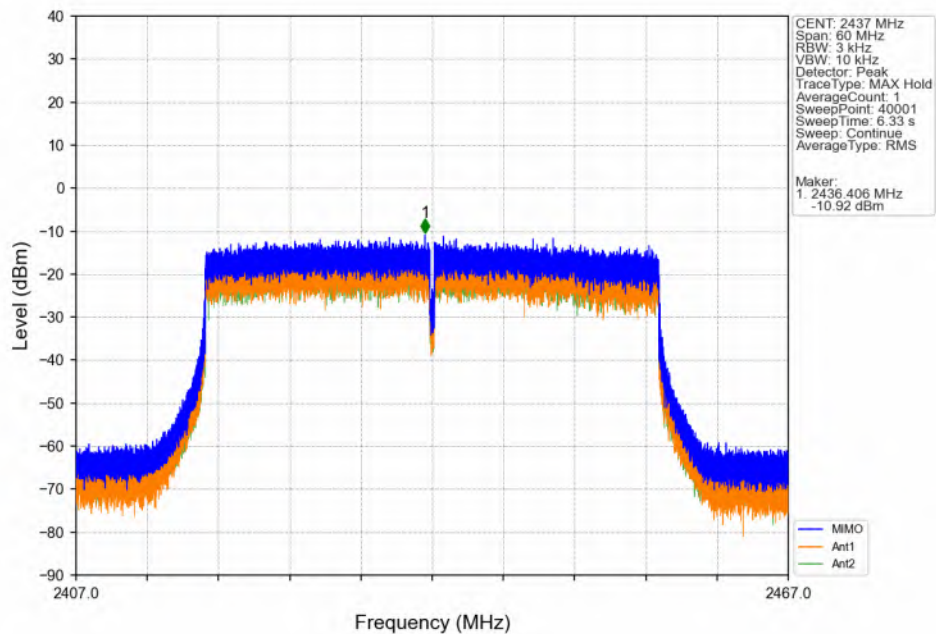
## 802.11ax(HEW40) MCH 2437MHz SU / Ant1 (MIMO) NTN



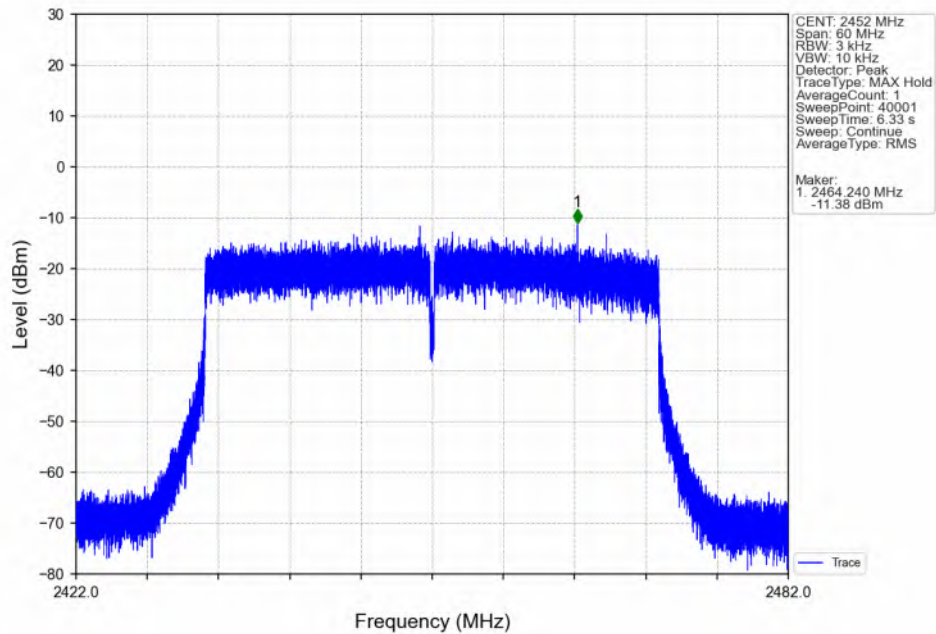
802.11ax(HEW40) MCH 2437MHz SU / Ant2 (MIMO) NTNv



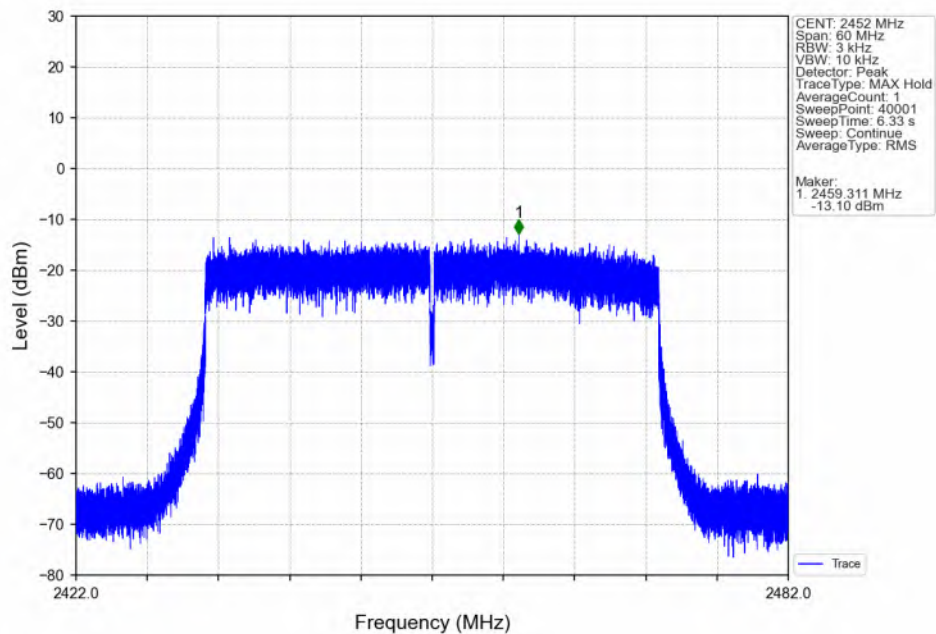
802.11ax(HEW40) MCH 2437MHz SU / MIMO NTNv



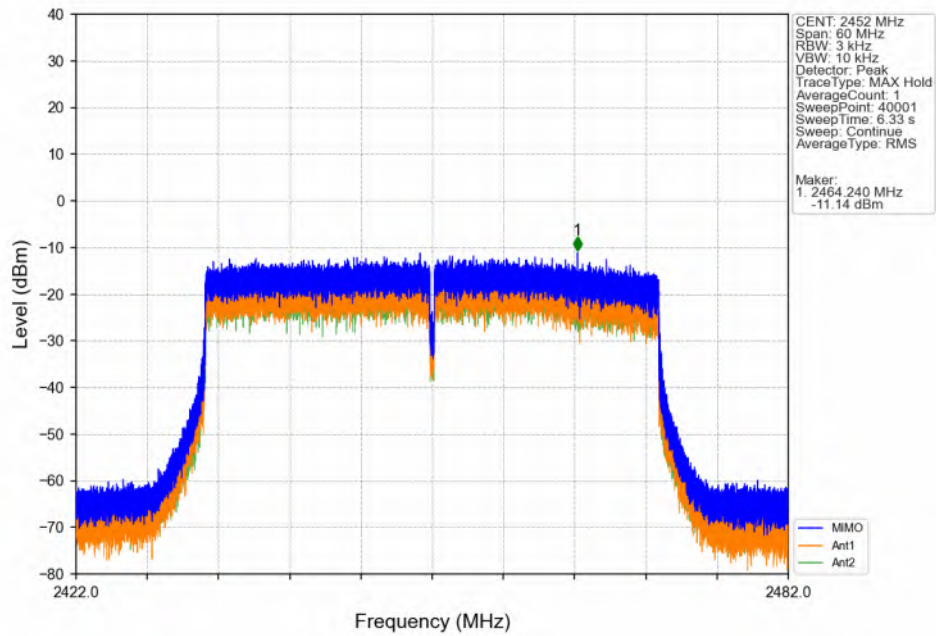
802.11ax(HEW40)\_HCH\_2452MHz\_SU / Ant1 (MIMO)\_NTNV



802.11ax(HEW40)\_HCH\_2452MHz\_SU / Ant2 (MIMO)\_NTNV



## 802.11ax(HEW40) HCH 2452MHz SU / MIMO\_NTNV



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

### 5.1 Test Result

#### 5.1.1 Ref

| Mode             | TX Type | Frequency (MHz) | RU | RU Pos | ANT | Level of Reference (dBm) |
|------------------|---------|-----------------|----|--------|-----|--------------------------|
| 802.11b          | MIMO    | 2412            | /  | /      | 1   | 8.29                     |
|                  |         |                 |    |        | 2   | 8.68                     |
|                  |         | 2437            | /  | /      | 1   | 8.81                     |
|                  |         |                 |    |        | 2   | 9.07                     |
|                  |         | 2462            | /  | /      | 1   | 8.29                     |
|                  |         |                 |    |        | 2   | 8.36                     |
| 802.11g          | MIMO    | 2412            | /  | /      | 1   | 6.29                     |
|                  |         |                 |    |        | 2   | 6.26                     |
|                  |         | 2437            | /  | /      | 1   | 6.15                     |
|                  |         |                 |    |        | 2   | 5.94                     |
|                  |         | 2462            | /  | /      | 1   | 6.05                     |
|                  |         |                 |    |        | 2   | 5.94                     |
| 802.11ax (HEW20) | MIMO    | 2412            | SU | /      | 1   | 5.66                     |
|                  |         |                 |    |        | 2   | 6.59                     |
|                  |         | 2437            | SU | /      | 1   | 5.63                     |
|                  |         |                 |    |        | 2   | 5.94                     |
|                  |         | 2462            | SU | /      | 1   | 5.31                     |
|                  |         |                 |    |        | 2   | 5.80                     |
| 802.11ax (HEW40) | MIMO    | 2422            | SU | /      | 1   | 2.11                     |
|                  |         |                 |    |        | 2   | 2.63                     |
|                  |         | 2437            | SU | /      | 1   | 2.56                     |
|                  |         |                 |    |        | 2   | 2.70                     |
|                  |         | 2452            | SU | /      | 1   | 2.05                     |
|                  |         |                 |    |        | 2   | 2.10                     |

#### 5.1.2 CSE

| Mode    | TX Type | Frequency (MHz) | RU | RU Pos | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|---------|---------|-----------------|----|--------|-----|--------------------------|-------------|---------|
| 802.11b | MIMO    | 2412            | /  | /      | 1   | 8.29                     | -11.71      | Pass    |
|         |         |                 |    |        | 2   | 8.68                     | -11.32      | Pass    |
|         |         | 2437            | /  | /      | 1   | 8.81                     | -11.19      | Pass    |
|         |         |                 |    |        | 2   | 9.07                     | -10.93      | Pass    |
|         |         | 2462            | /  | /      | 1   | 8.29                     | -11.71      | Pass    |
|         |         |                 |    |        | 2   | 8.36                     | -11.64      | Pass    |
| 802.11g | MIMO    | 2412            | /  | /      | 1   | 6.29                     | -13.71      | Pass    |
|         |         |                 |    |        | 2   | 6.26                     | -13.74      | Pass    |
|         |         | 2437            | /  | /      | 1   | 6.15                     | -13.85      | Pass    |
|         |         |                 |    |        | 2   | 5.94                     | -14.06      | Pass    |
|         |         | 2462            | /  | /      | 1   | 6.05                     | -13.95      | Pass    |
|         |         |                 |    |        | 2   |                          |             |         |



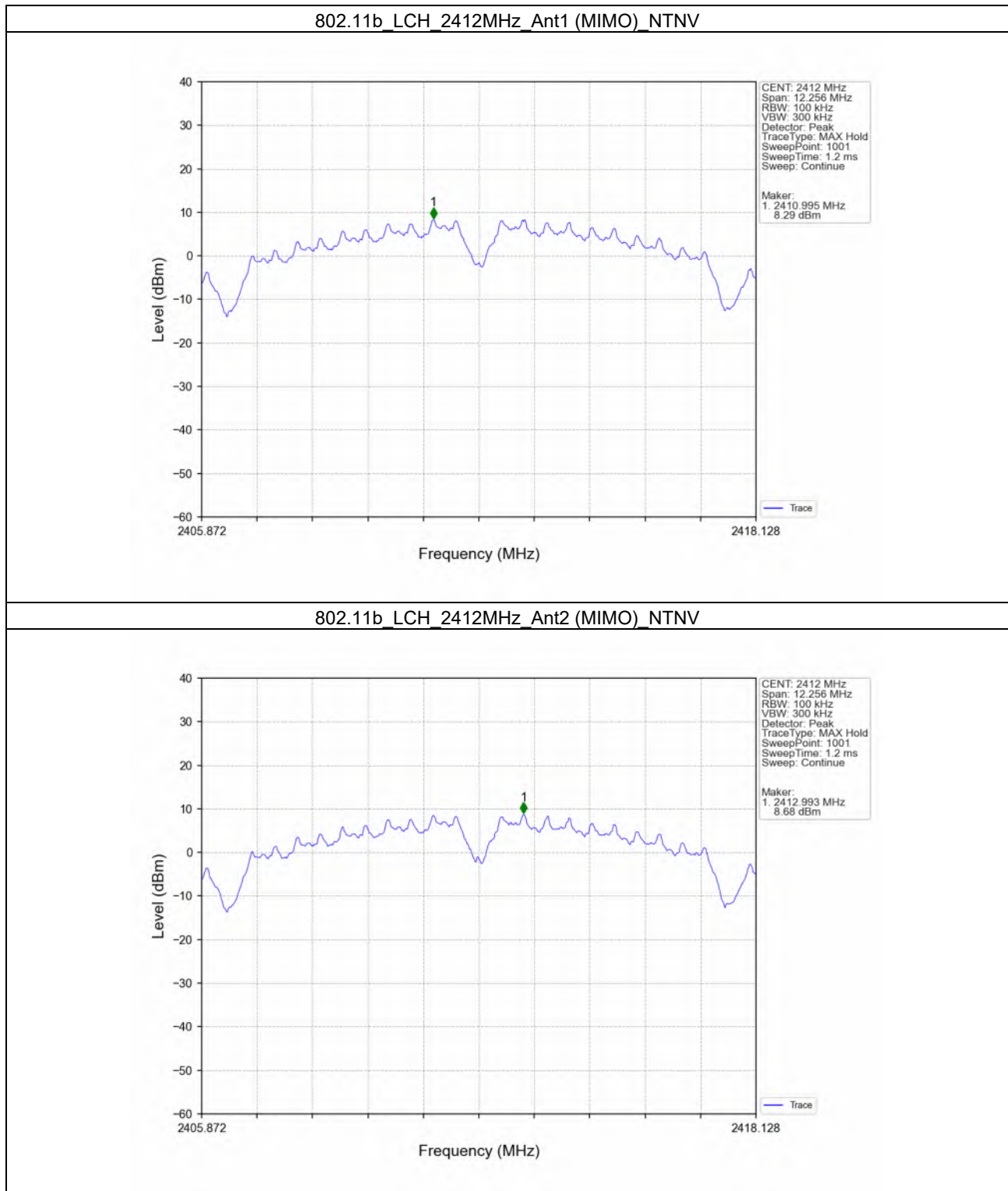
Report No.: SUCR260400030103

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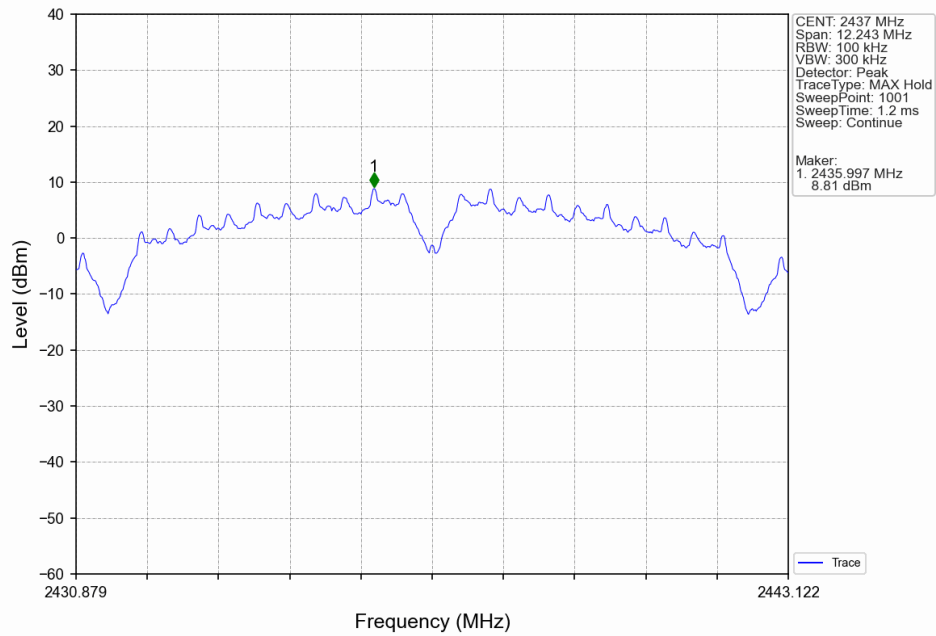
|                     |      |      |    |   |   |      |        |      |
|---------------------|------|------|----|---|---|------|--------|------|
|                     |      |      |    |   | 2 | 5.94 | -14.06 | Pass |
| 802.11ax<br>(HEW20) | MIMO | 2412 | SU | / | 1 | 5.66 | -14.34 | Pass |
|                     |      |      |    |   | 2 | 6.59 | -13.41 | Pass |
|                     |      | 2437 | SU | / | 1 | 5.63 | -14.37 | Pass |
|                     |      |      |    |   | 2 | 5.94 | -14.06 | Pass |
|                     |      | 2462 | SU | / | 1 | 5.31 | -14.69 | Pass |
|                     |      |      |    |   | 2 | 5.80 | -14.20 | Pass |
| 802.11ax<br>(HEW40) | MIMO | 2422 | SU | / | 1 | 2.11 | -17.89 | Pass |
|                     |      |      |    |   | 2 | 2.63 | -17.37 | Pass |
|                     |      | 2437 | SU | / | 1 | 2.56 | -17.44 | Pass |
|                     |      |      |    |   | 2 | 2.70 | -17.30 | Pass |
|                     |      | 2452 | SU | / | 1 | 2.05 | -17.95 | Pass |
|                     |      |      |    |   | 2 | 2.10 | -17.90 | Pass |

## 5.2 Test Graph

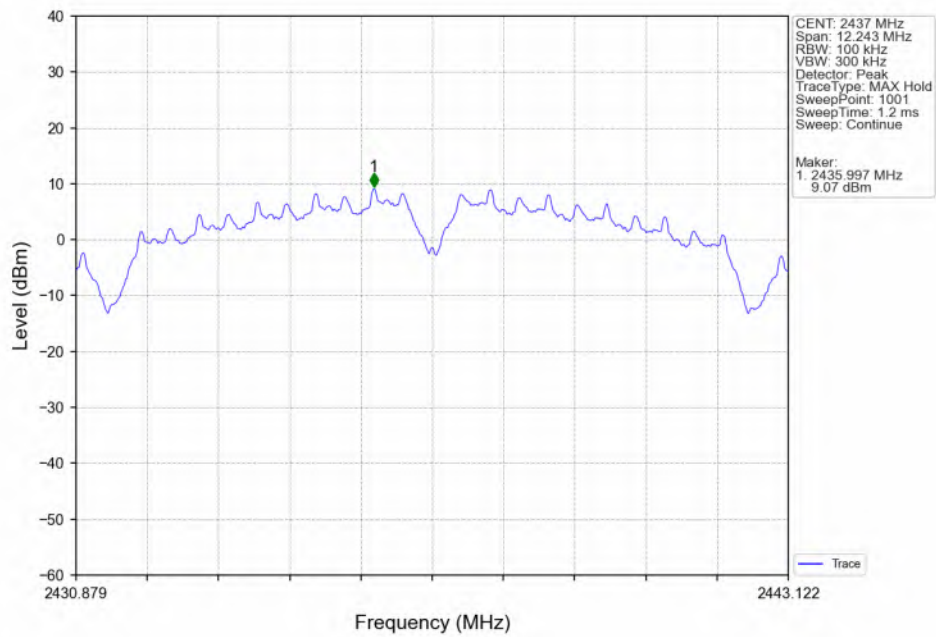
### 5.2.1 Ref



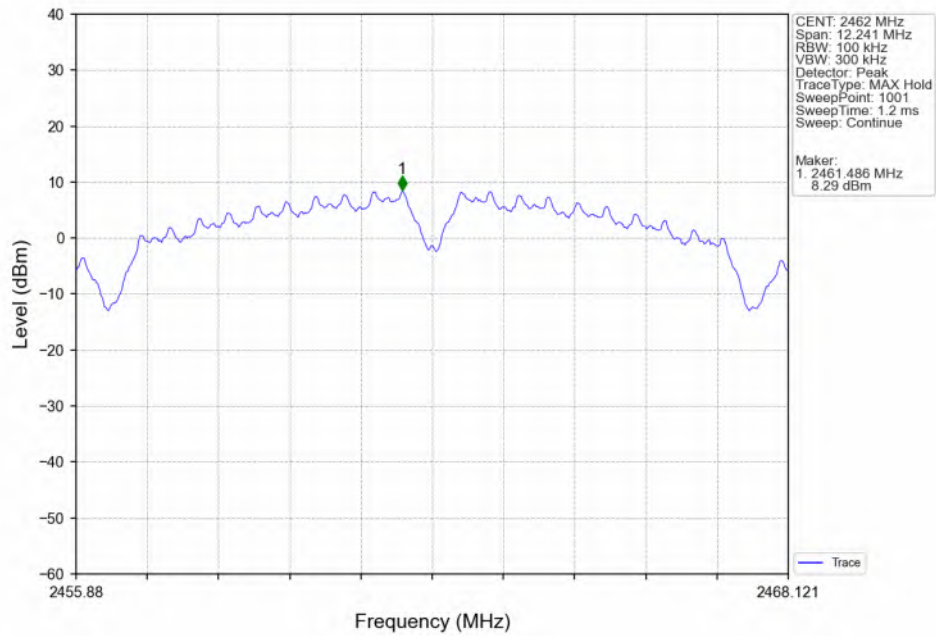
## 802.11b\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



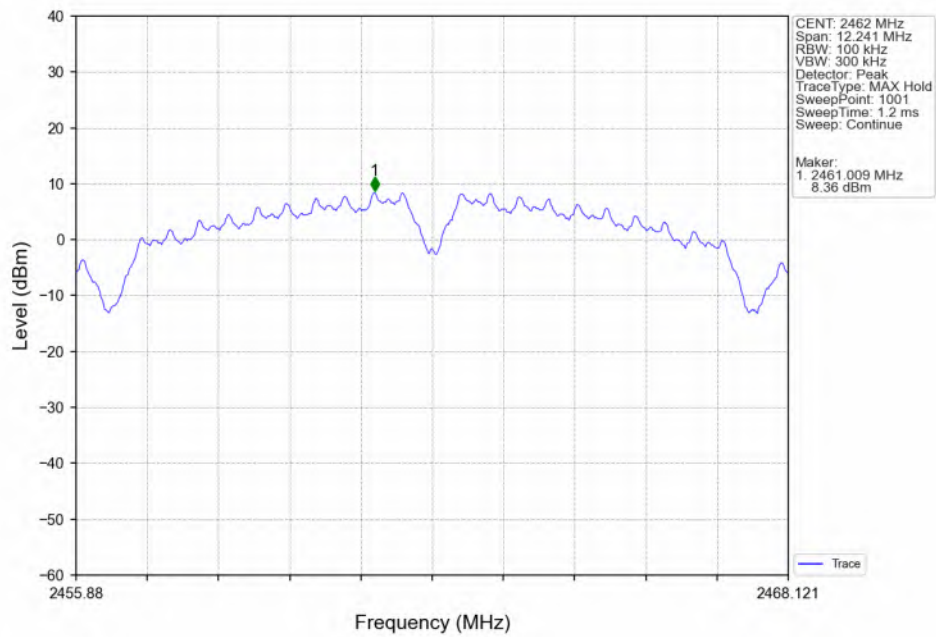
## 802.11b\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV



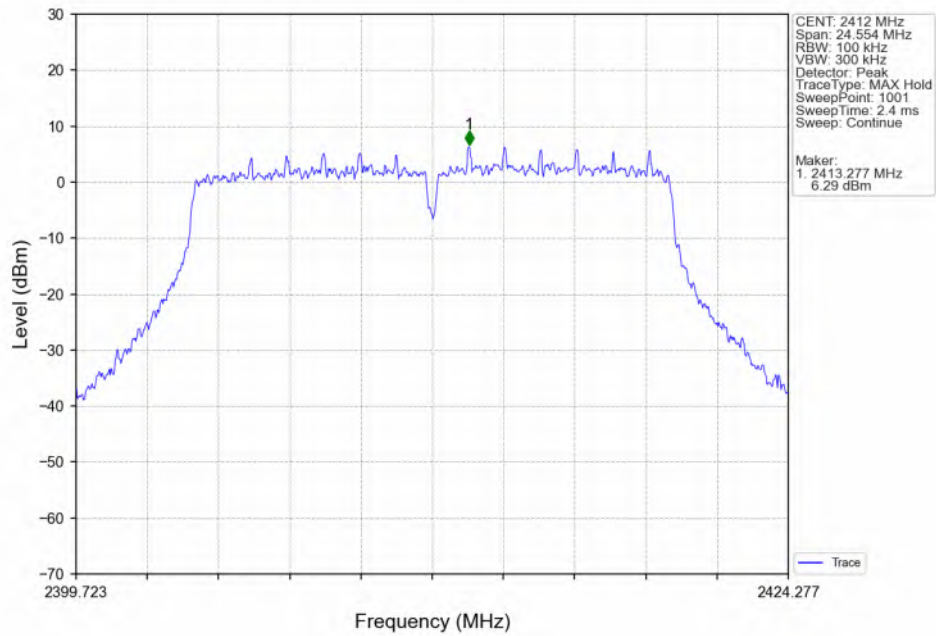
## 802.11b\_HCH\_2462MHz\_Ant1 (MIMO)\_NTNV



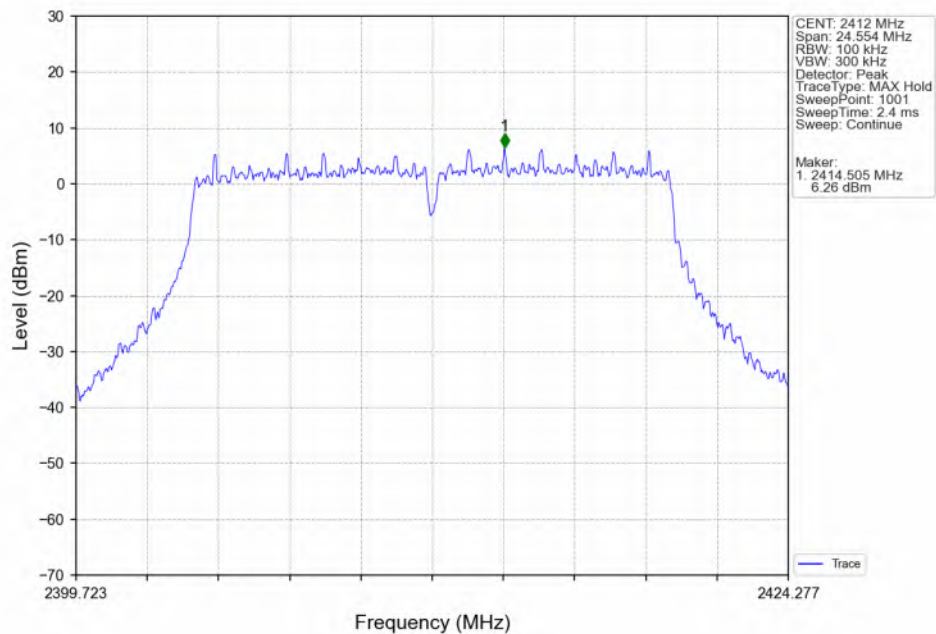
## 802.11b\_HCH\_2462MHz\_Ant2 (MIMO)\_NTNV



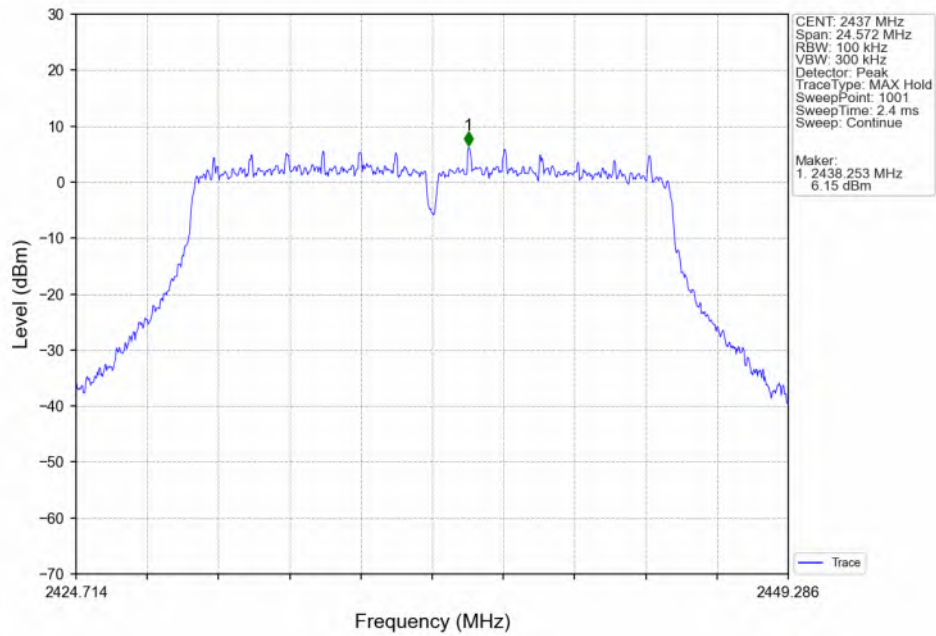
## 802.11g\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



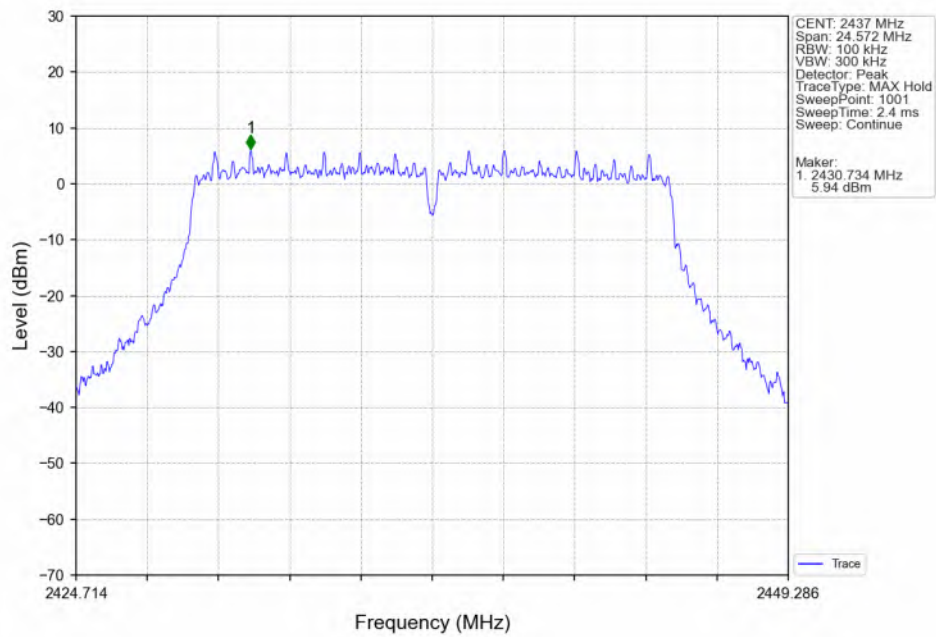
## 802.11g\_LCH\_2412MHz\_Ant2 (MIMO)\_NTNV



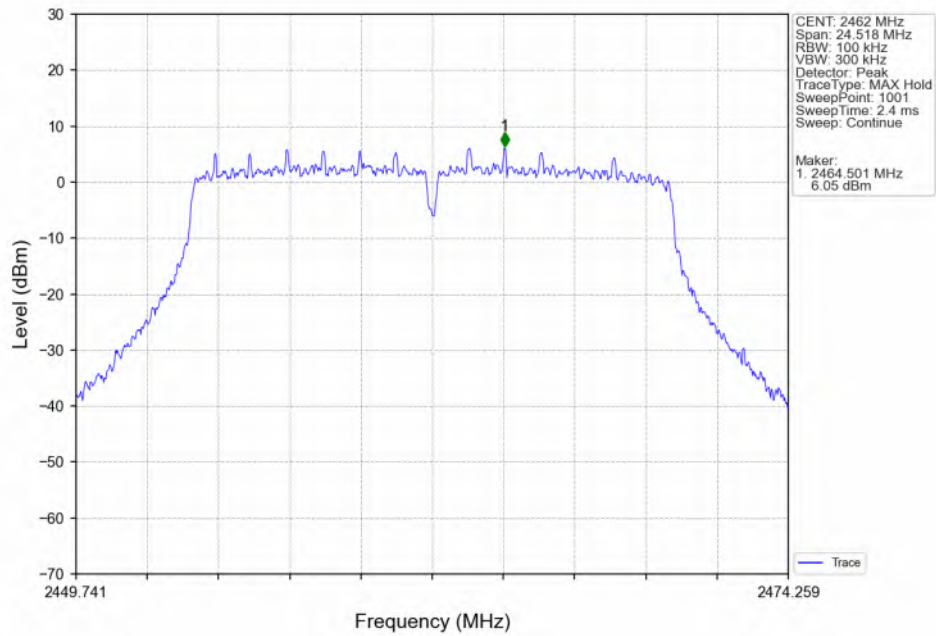
802.11g\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



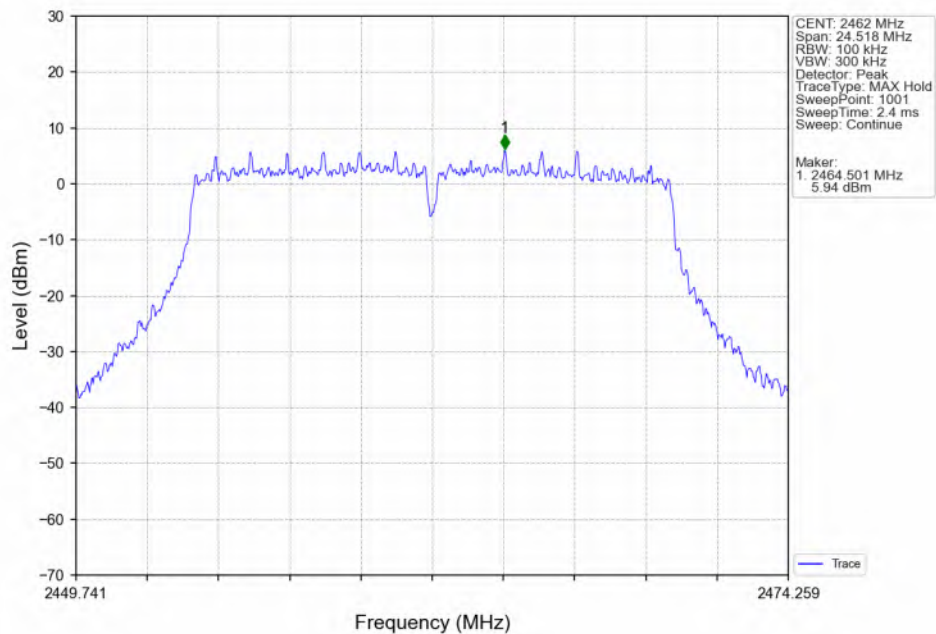
802.11g\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV



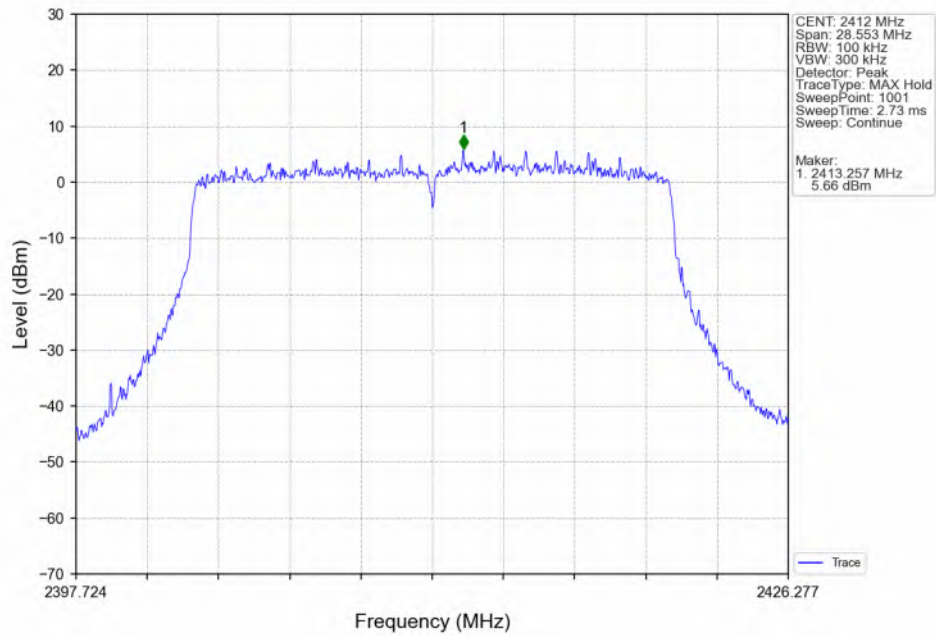
802.11g\_HCH\_2462MHz\_Ant1 (MIMO)\_NTNV



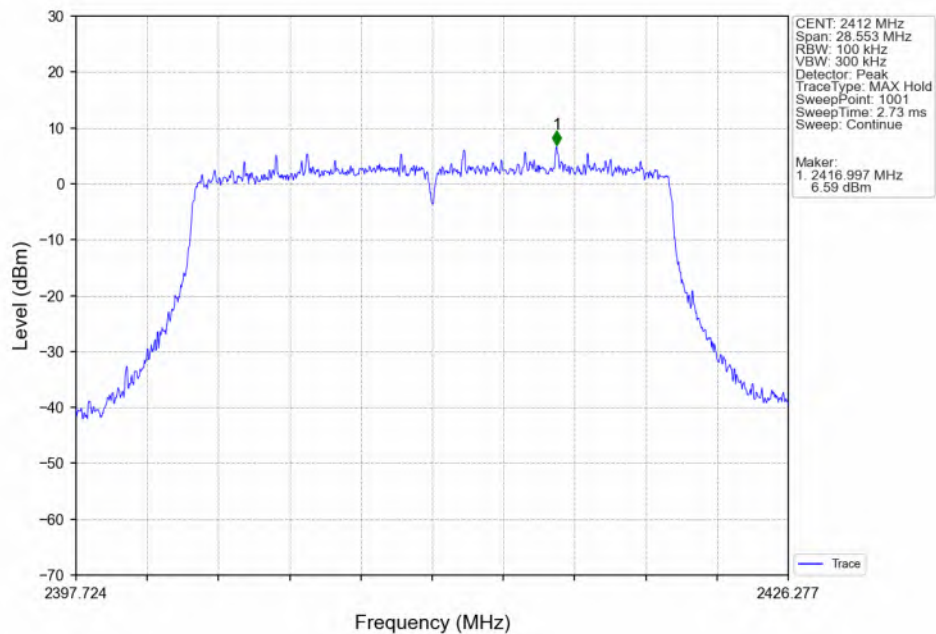
802.11g\_HCH\_2462MHz\_Ant2 (MIMO)\_NTNV



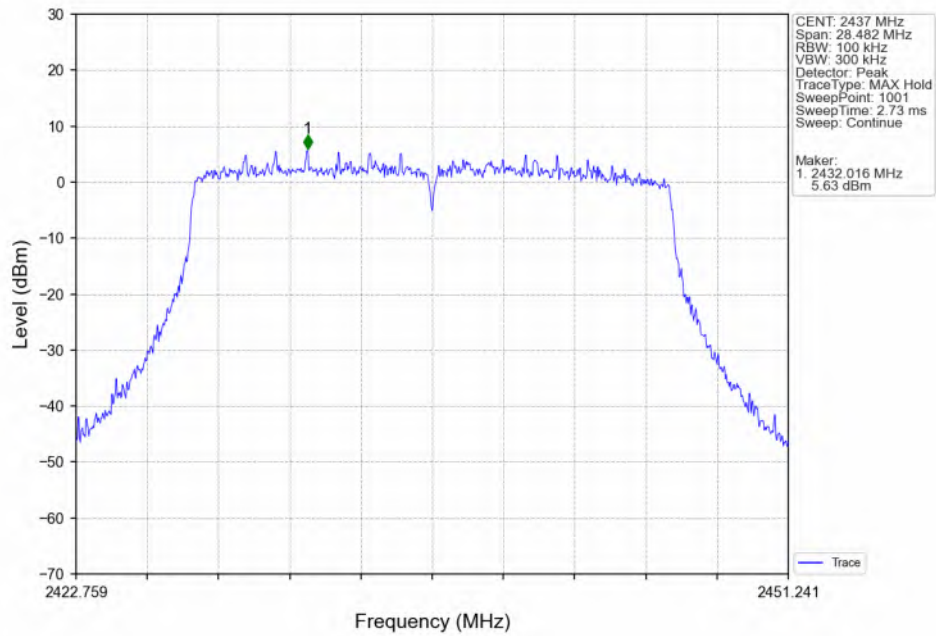
802.11ax(HEW20) LCH\_2412MHz\_SU / Ant1 (MIMO) NTNv



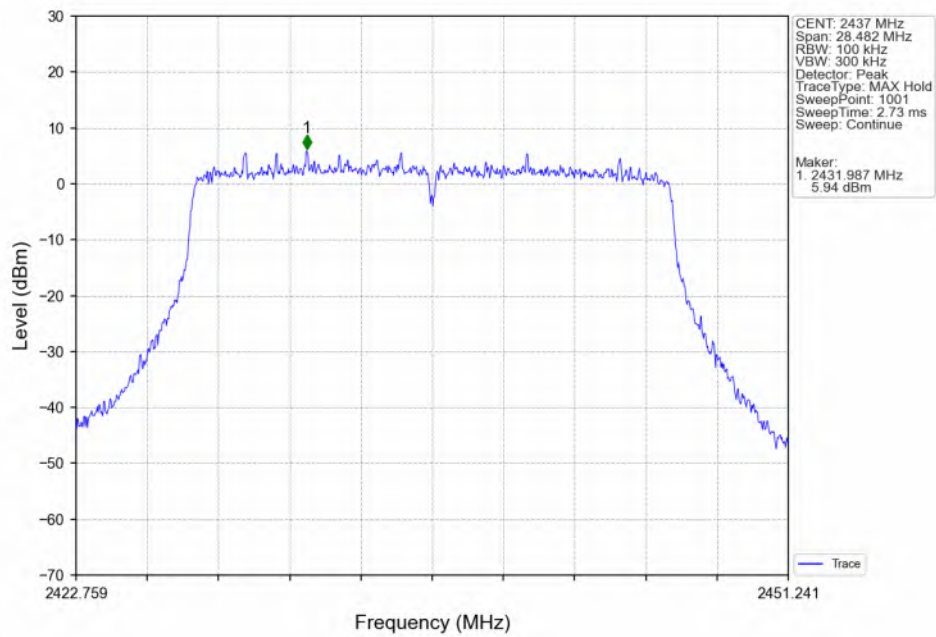
802.11ax(HEW20) LCH\_2412MHz\_SU / Ant2 (MIMO) NTNv



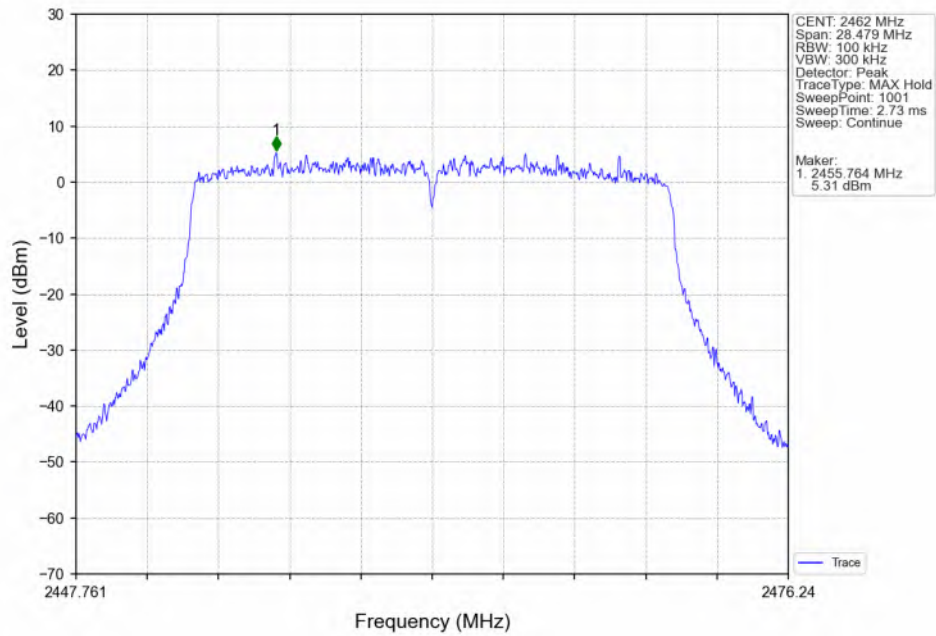
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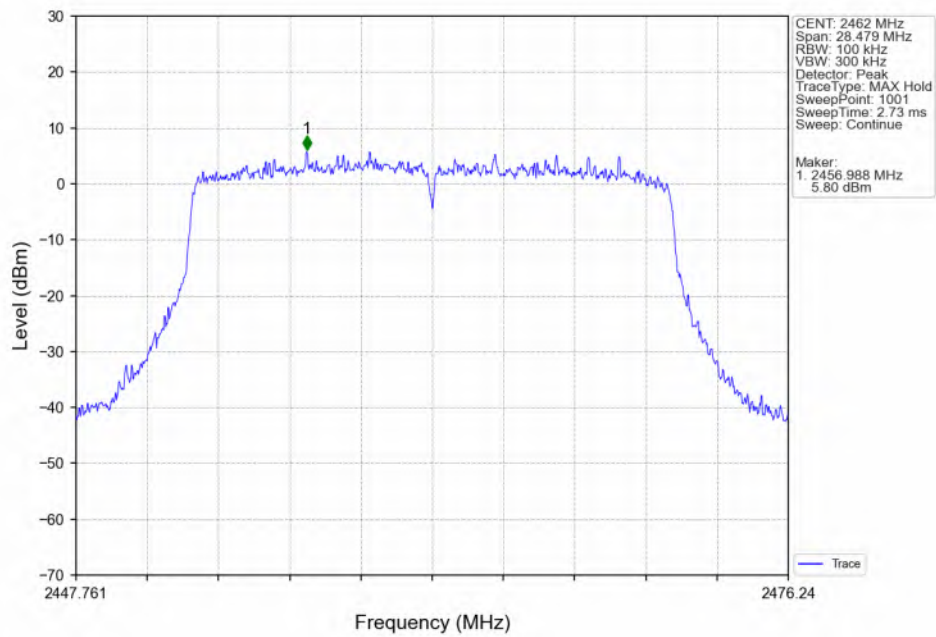
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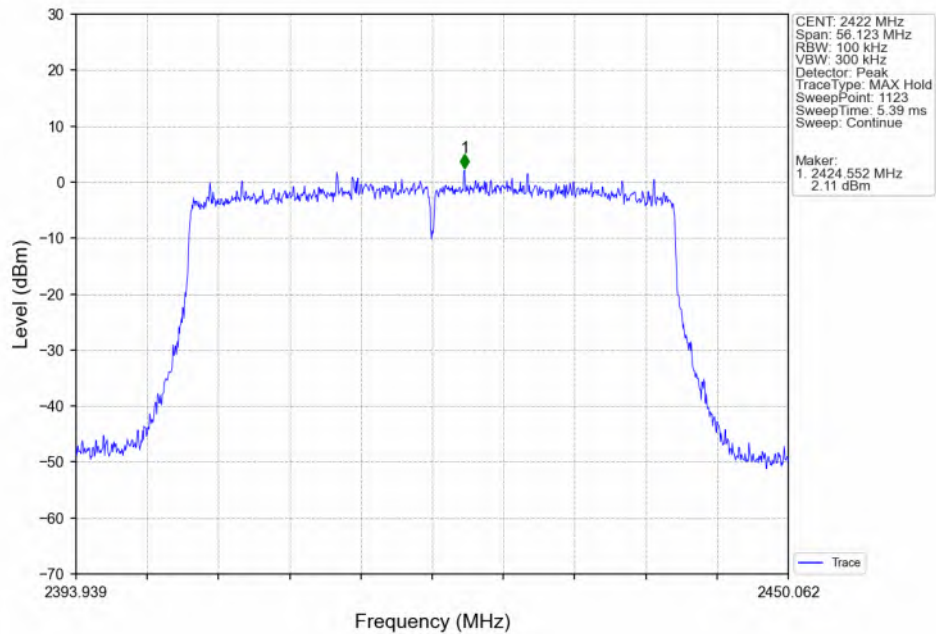
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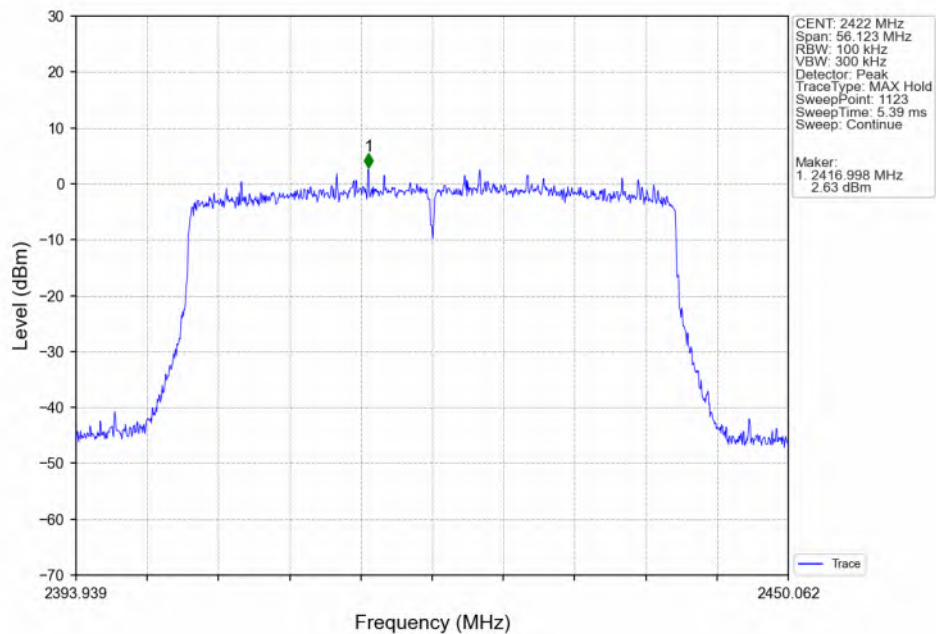
802.11ax(HEW20)\_HCH\_2462MHz\_SU / \_Ant2 (MIMO)\_NTNV



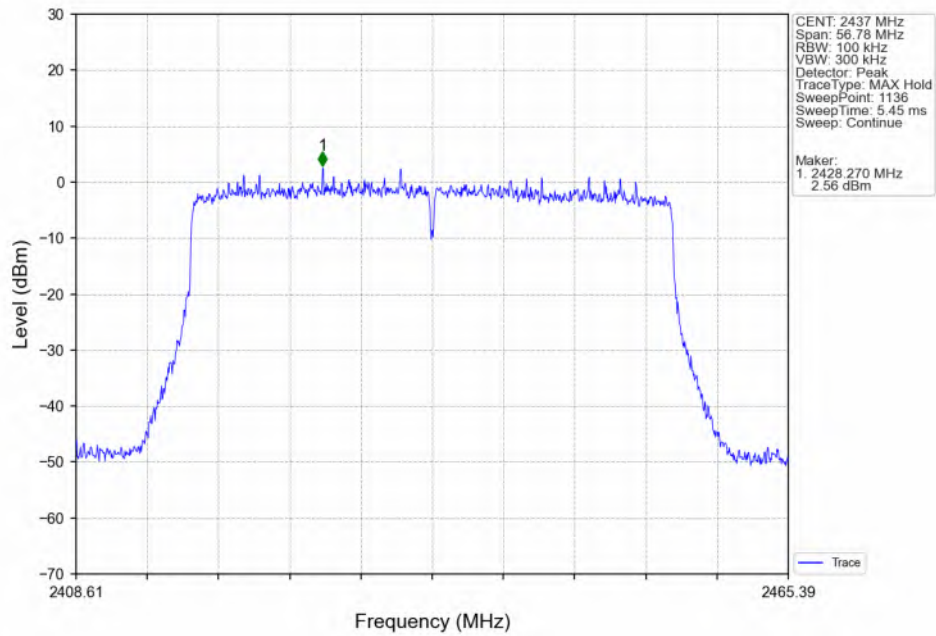
802.11ax(HEW40)\_LCH\_2422MHz\_SU\_/\_Ant1 (MIMO)\_NTNV



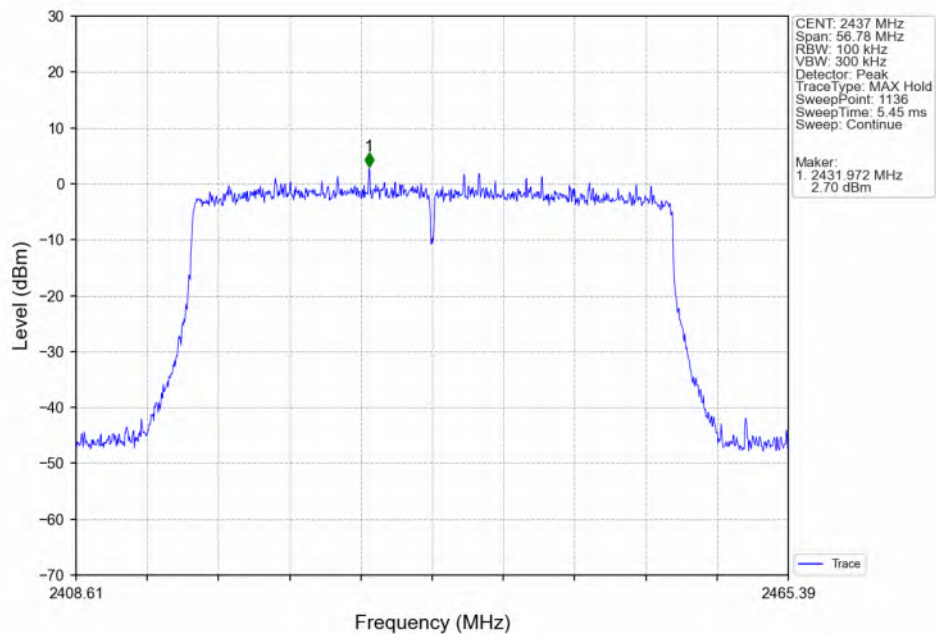
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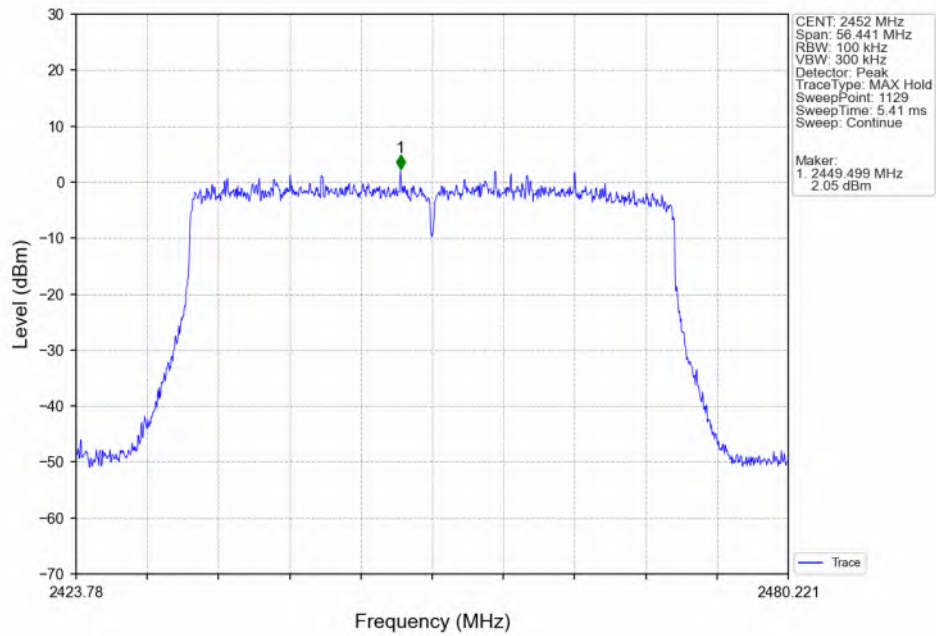
802.11ax(HEW40)\_MCH\_2437MHz\_SU / \_Ant1 (MIMO)\_NTNV



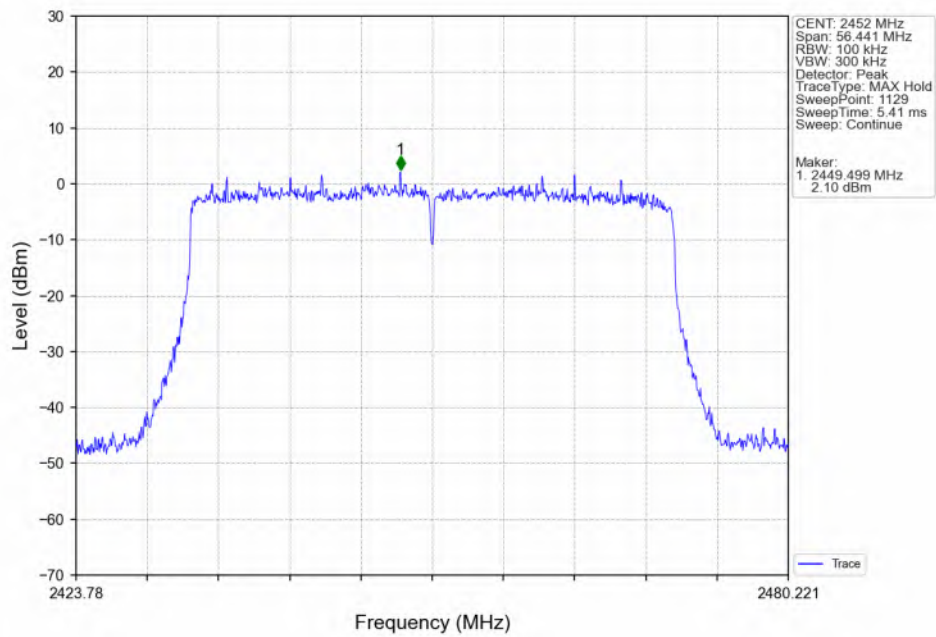
802.11ax(HEW40)\_MCH\_2437MHz\_SU / \_Ant2 (MIMO)\_NTNV



802.11ax(HEW40) HCH\_2452MHz\_SU / Ant1 (MIMO) NTNv

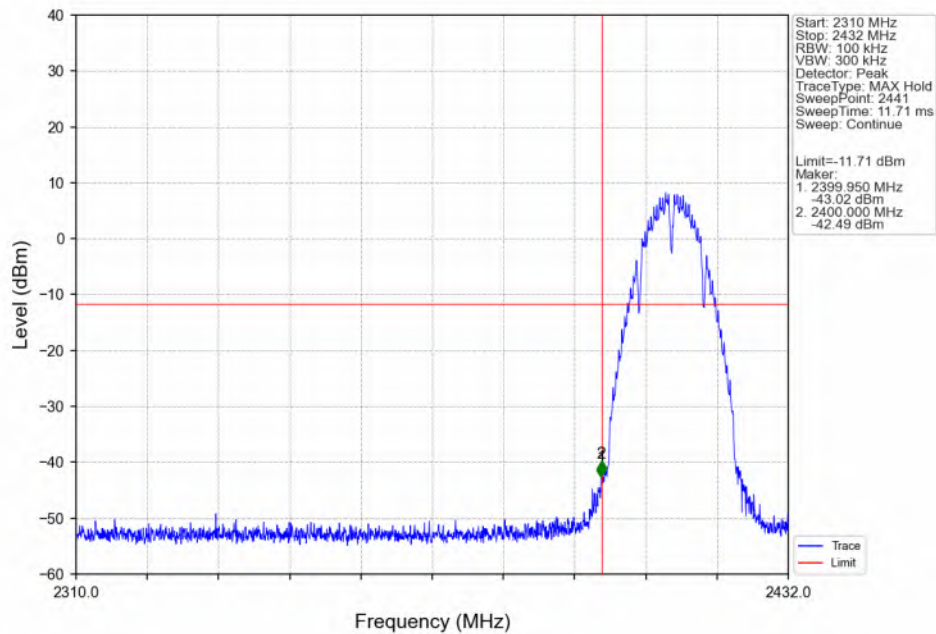


802.11ax(HEW40) HCH\_2452MHz\_SU / Ant2 (MIMO) NTNv

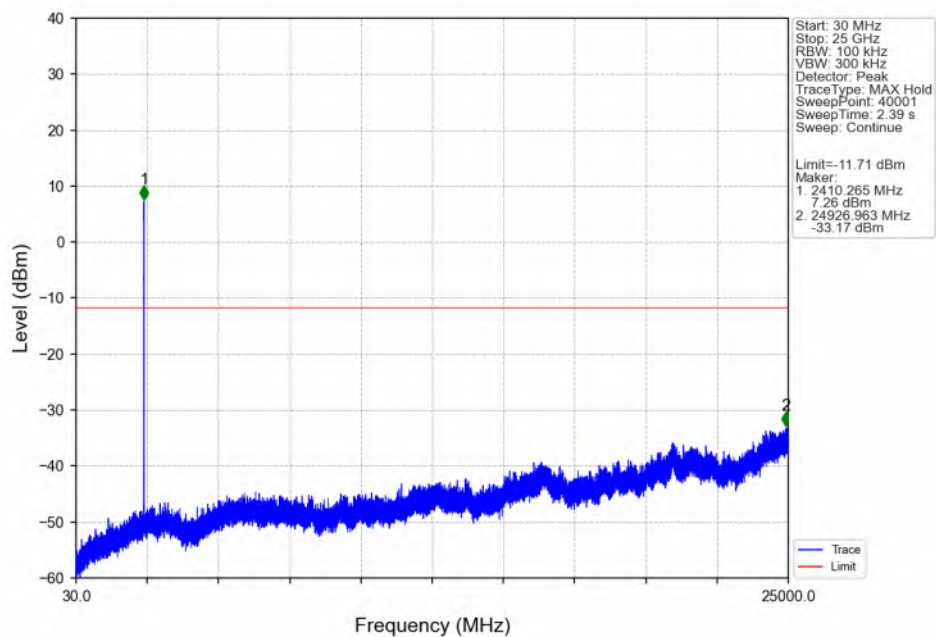


## 5.2.2 CSE

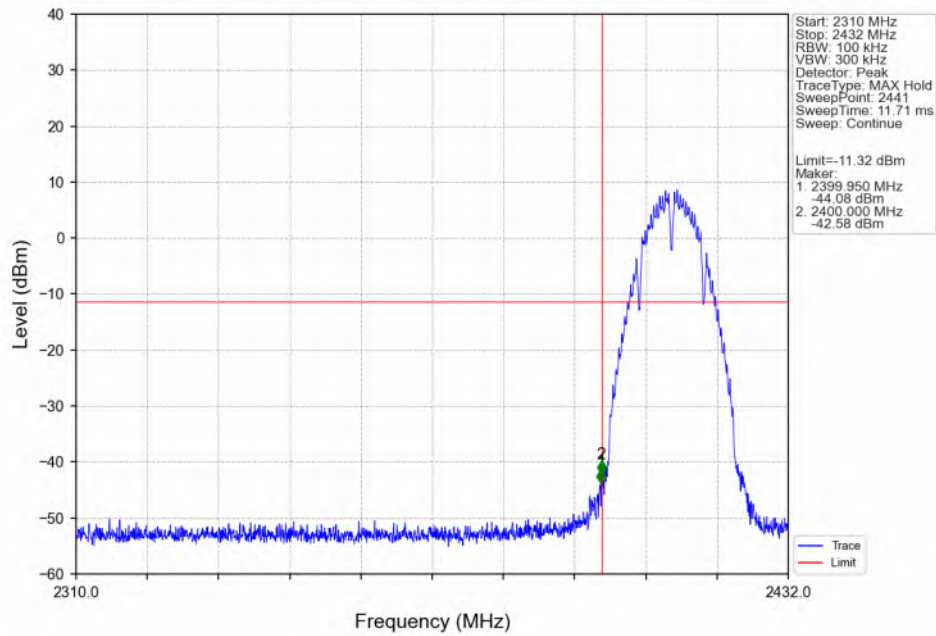
802.11b LCH 2412MHz Ant1 (MIMO) NTN



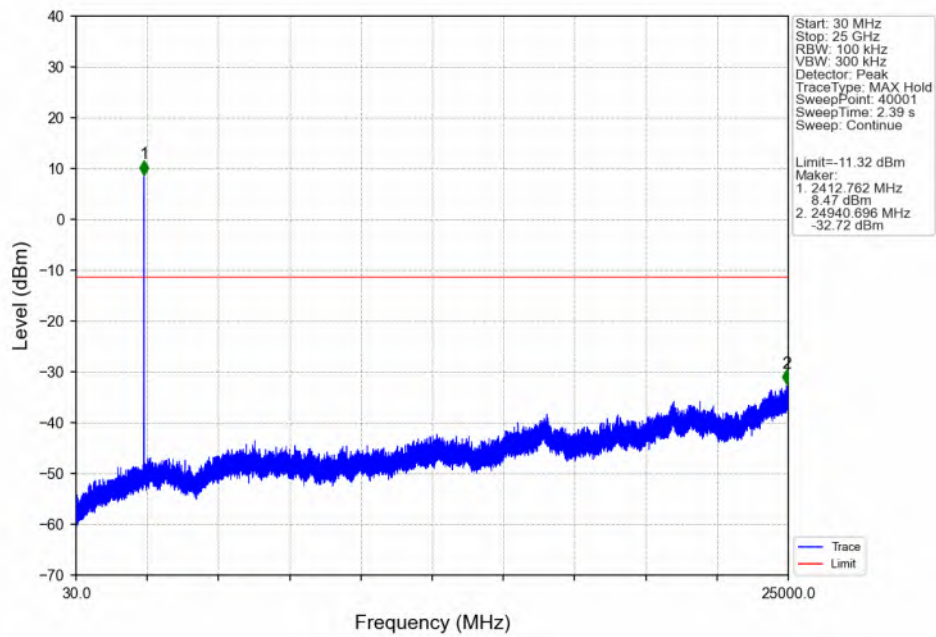
802.11b LCH 2412MHz Ant1 (MIMO) NTN



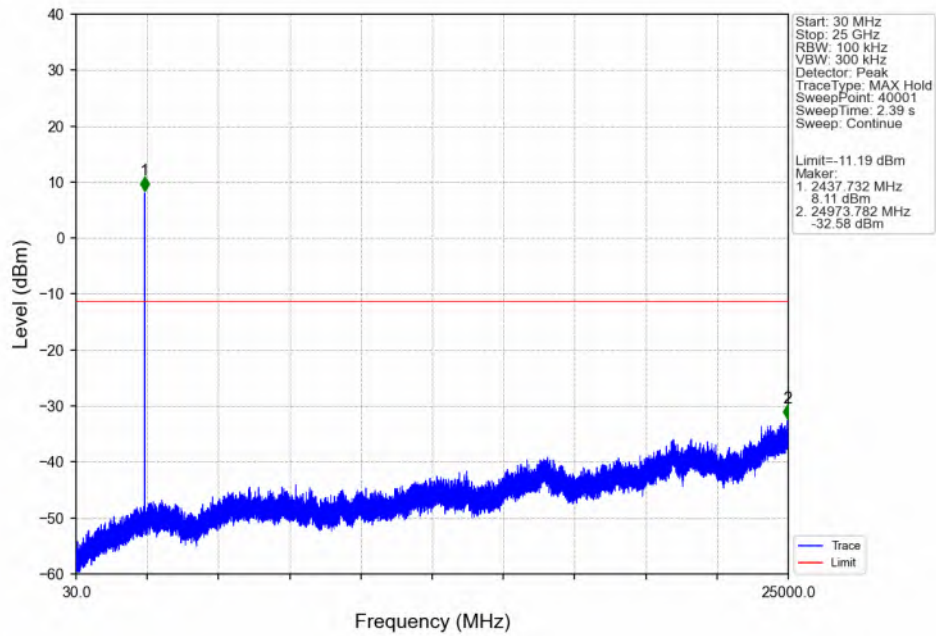
## 802.11b\_LCH\_2412MHz\_Ant2 (MIMO)\_NTNV



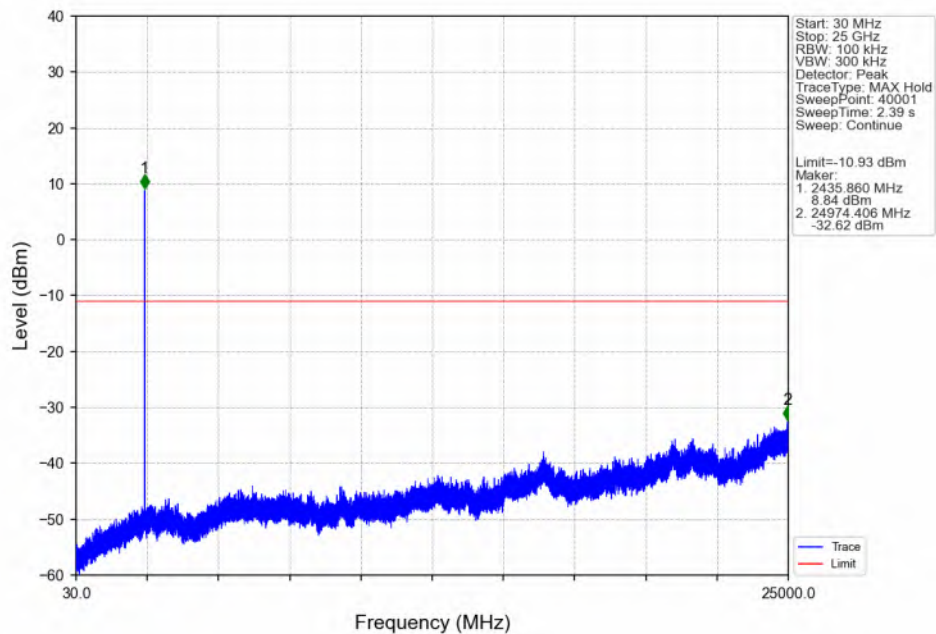
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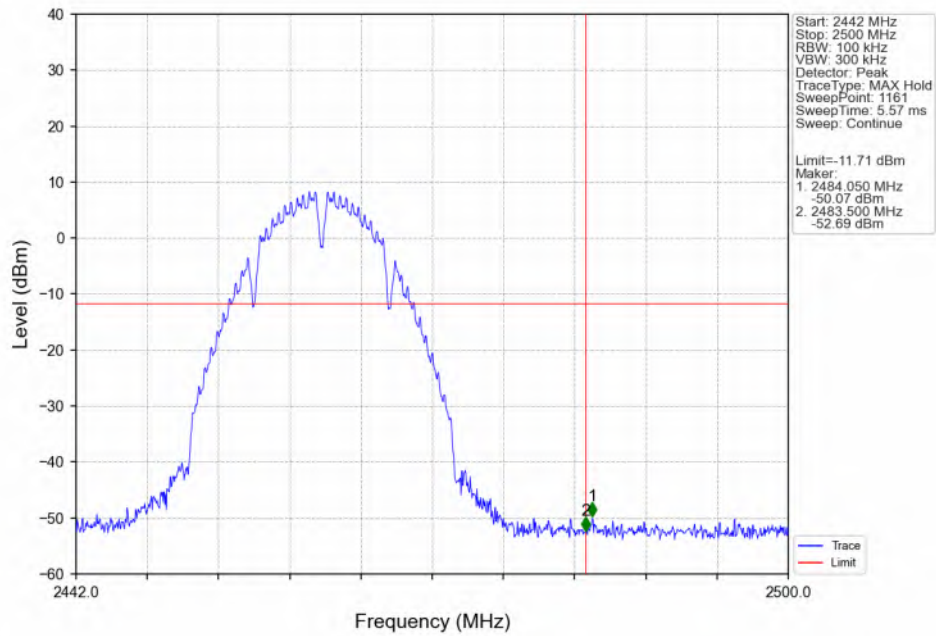
## 802.11b\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



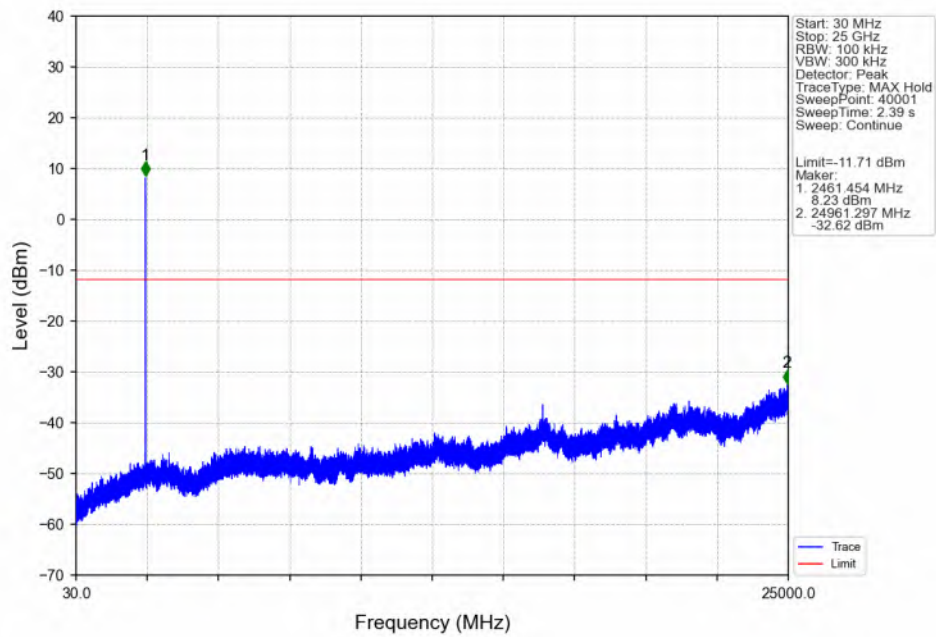
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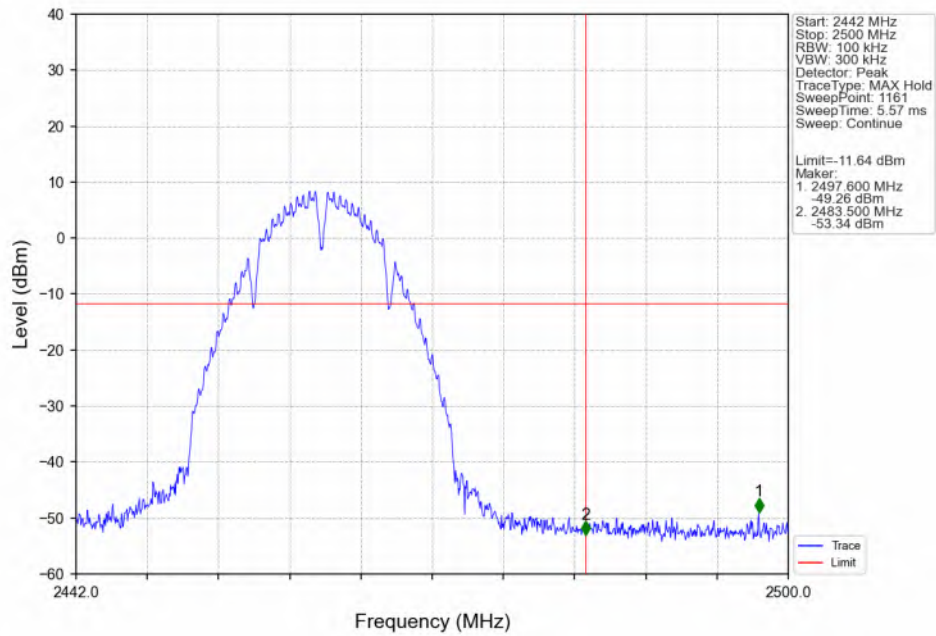
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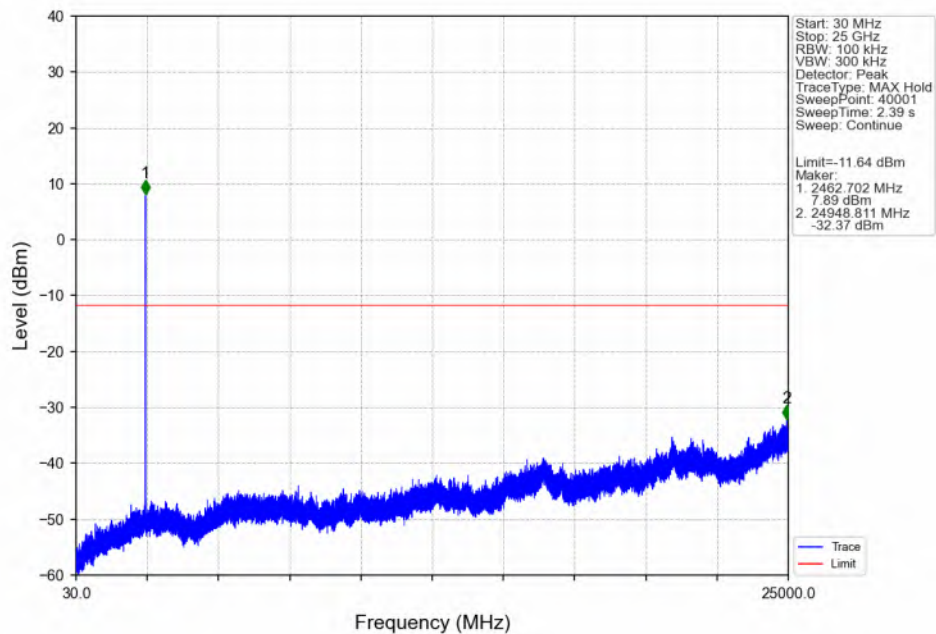
## 802.11b\_HCH\_2462MHz\_Ant1 (MIMO)\_NTNV



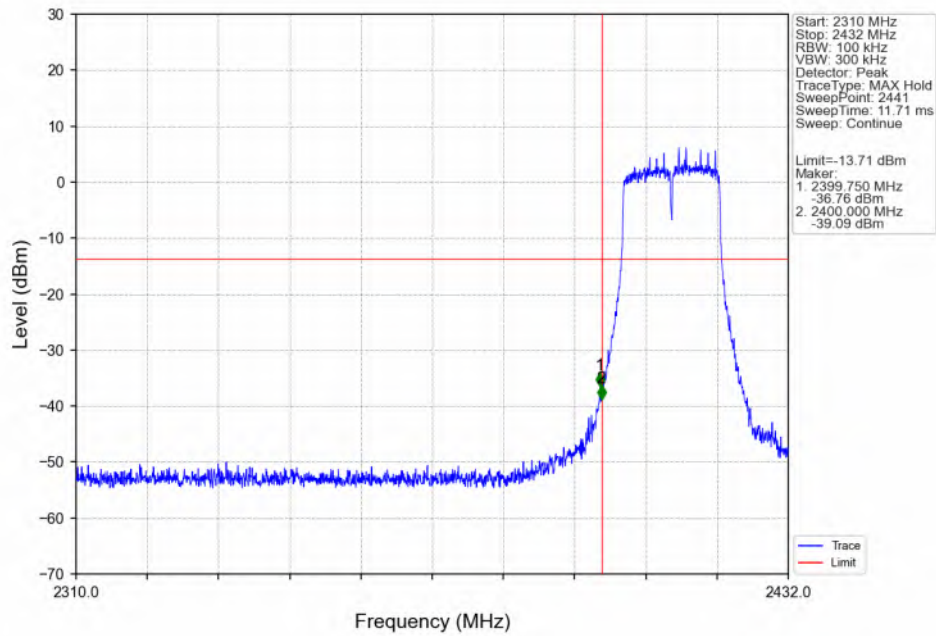
## 802.11b\_HCH\_2462MHz\_Ant2 (MIMO)\_NTNV



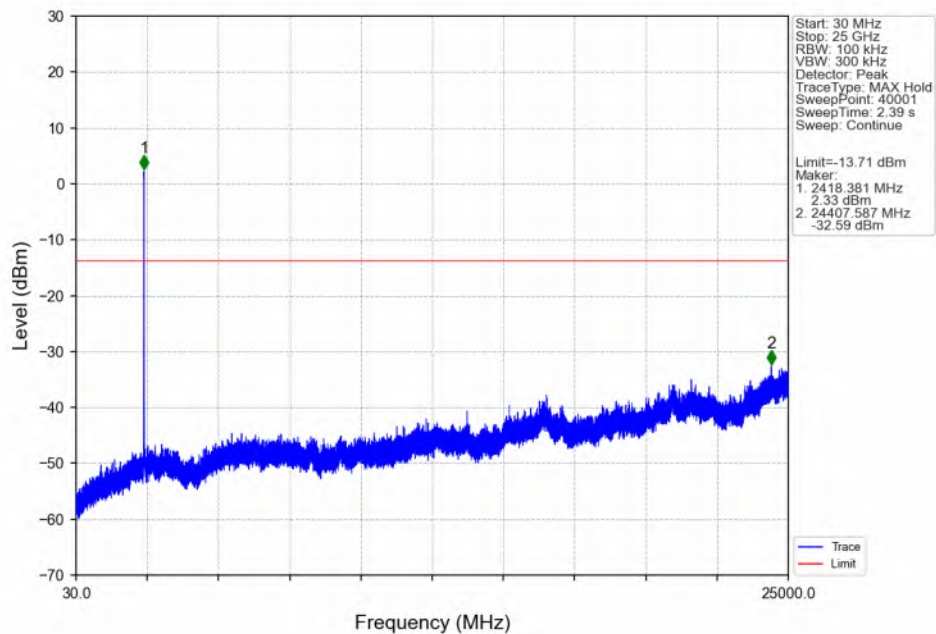
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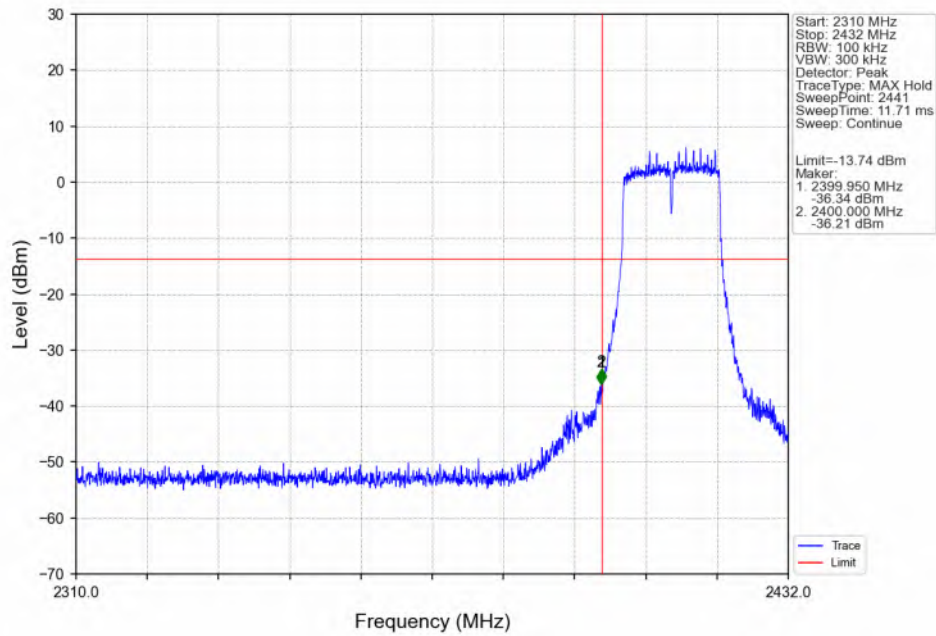
## 802.11g\_LCH\_2412MHz\_Ant1 (MIMO)\_NTNV



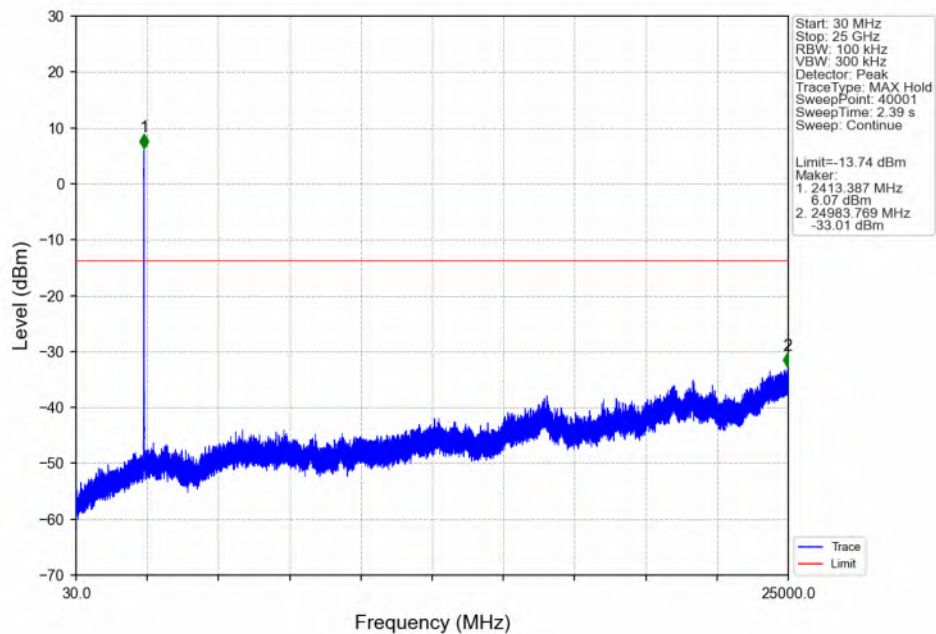
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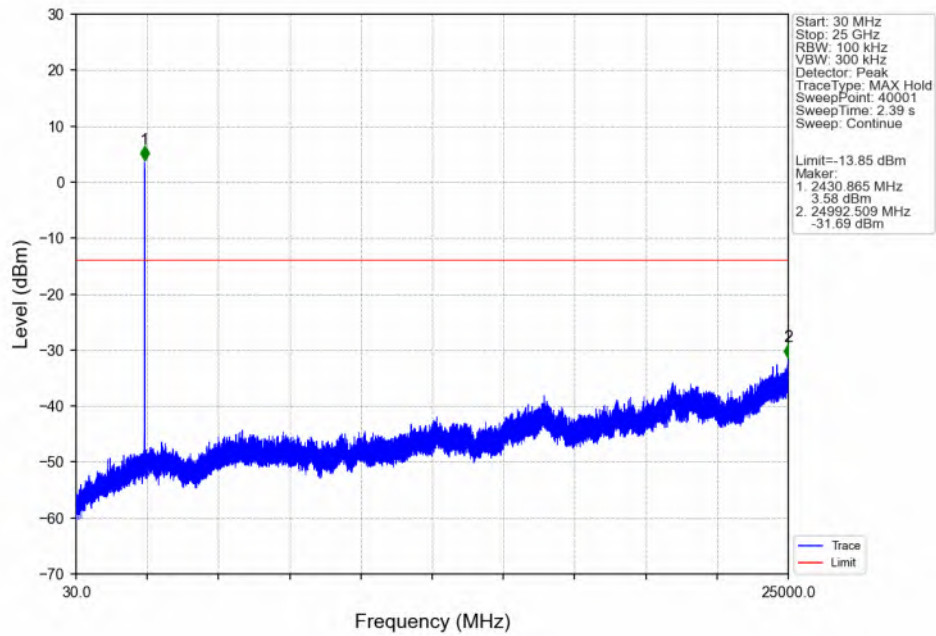
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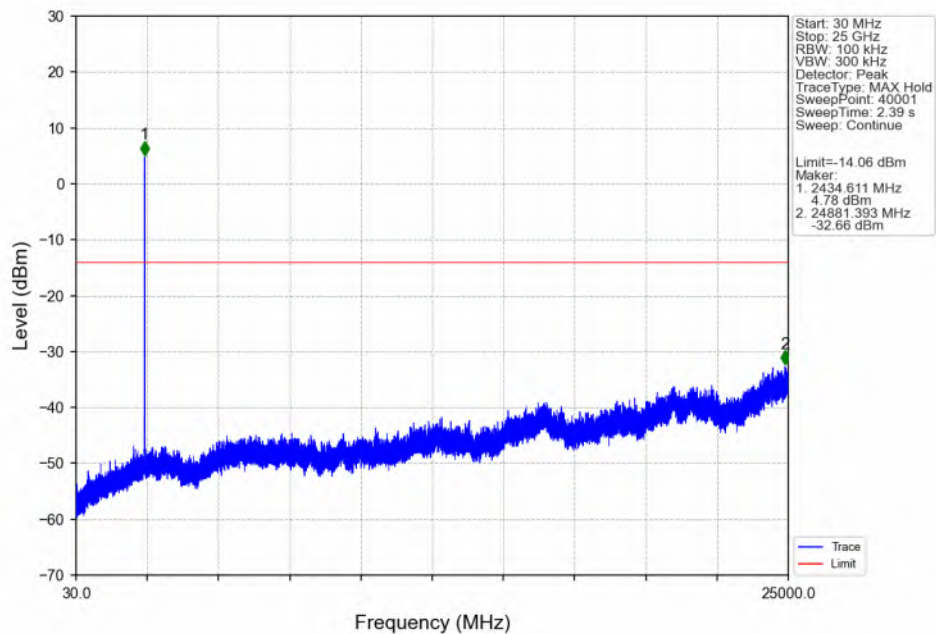
## 802.11g\_LCH\_2412MHz\_Ant2 (MIMO)\_NTNV



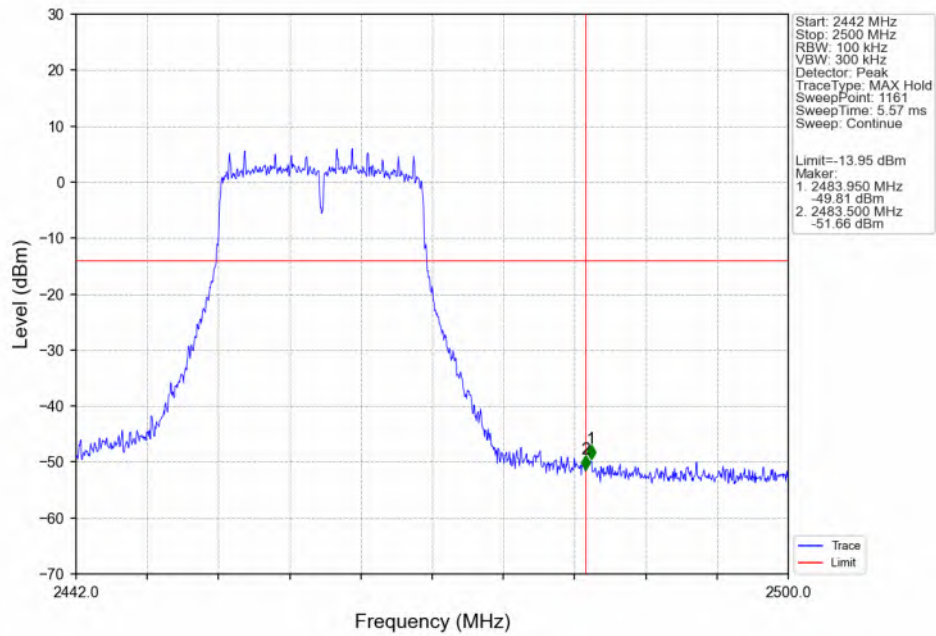
802.11g\_MCH\_2437MHz\_Ant1 (MIMO)\_NTNV



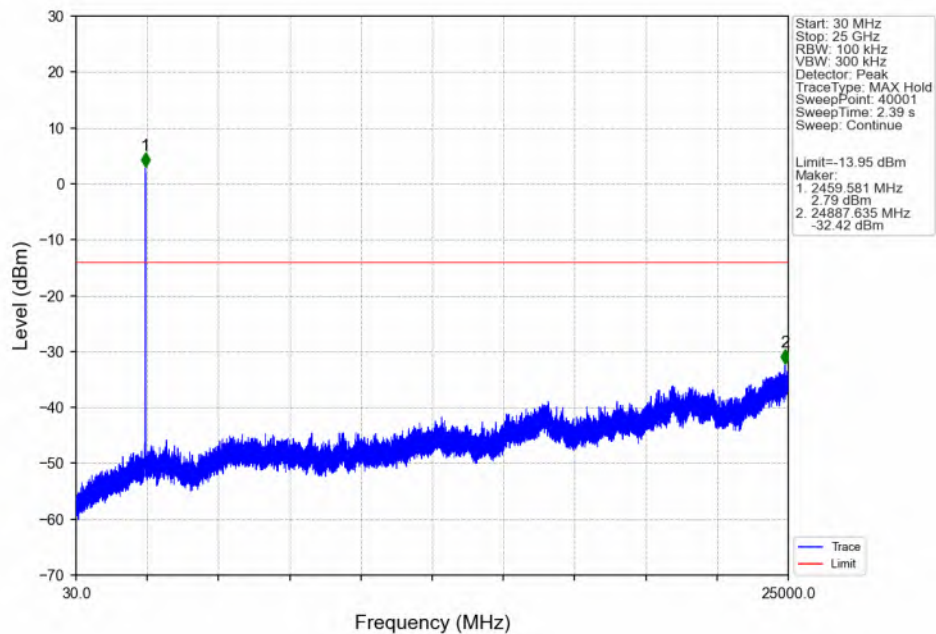
802.11g\_MCH\_2437MHz\_Ant2 (MIMO)\_NTNV



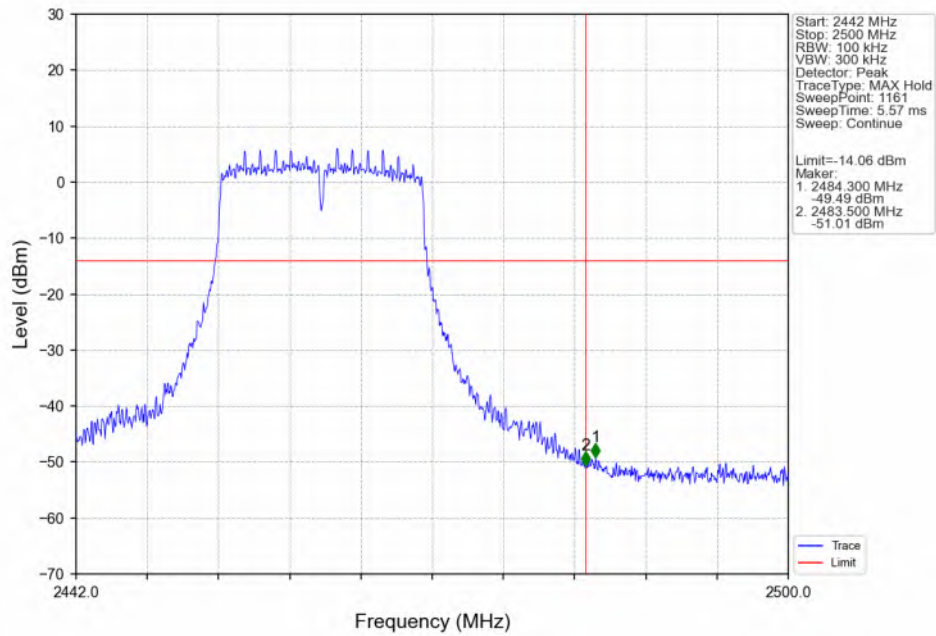
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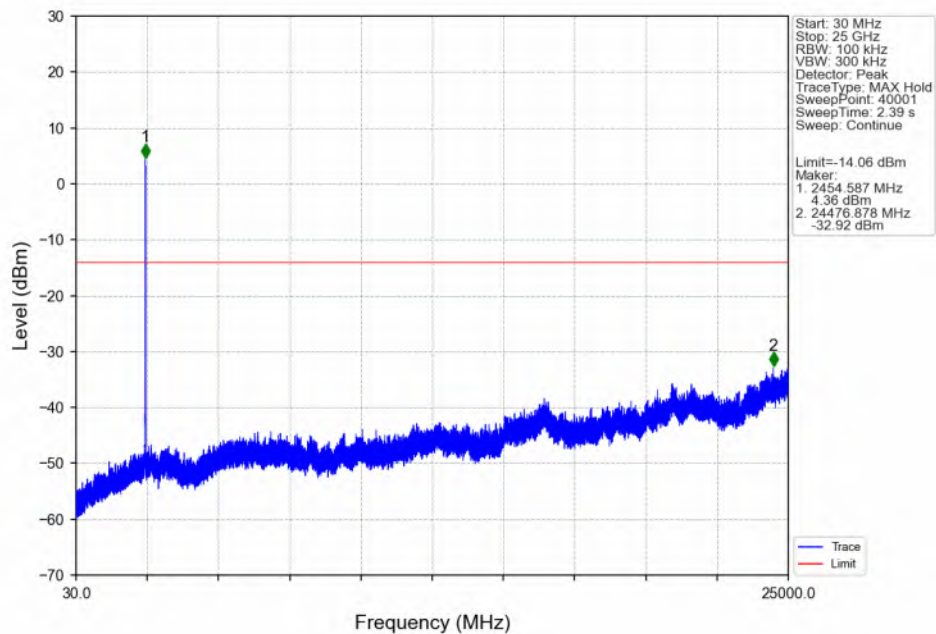
802.11g\_HCH\_2462MHz\_Ant1 (MIMO)\_NTNV



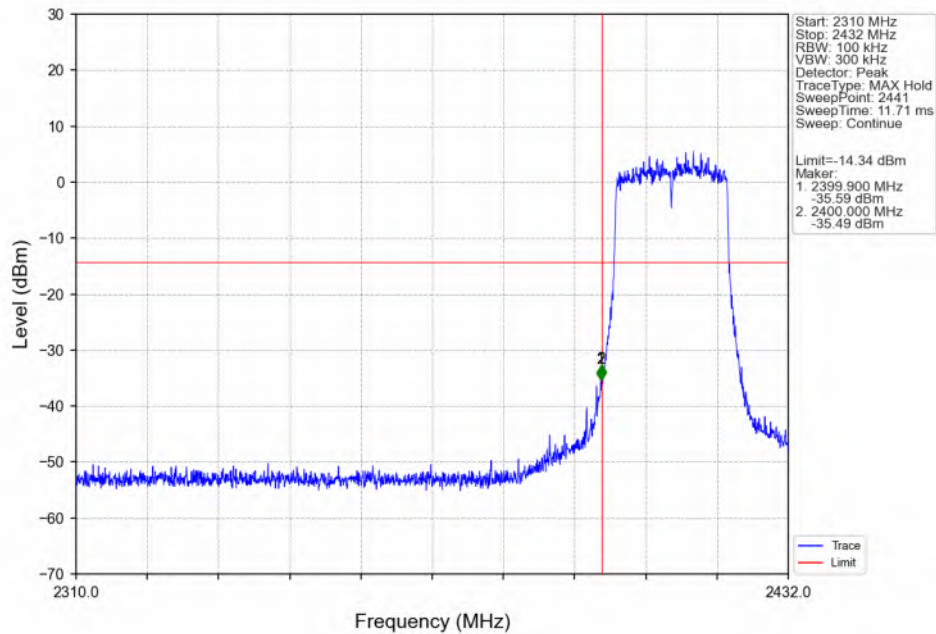
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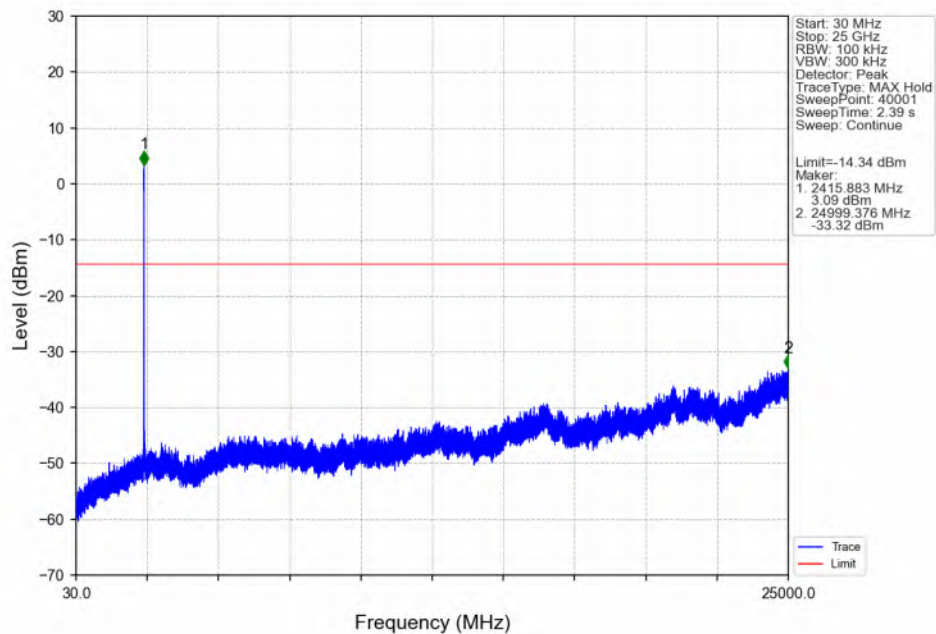
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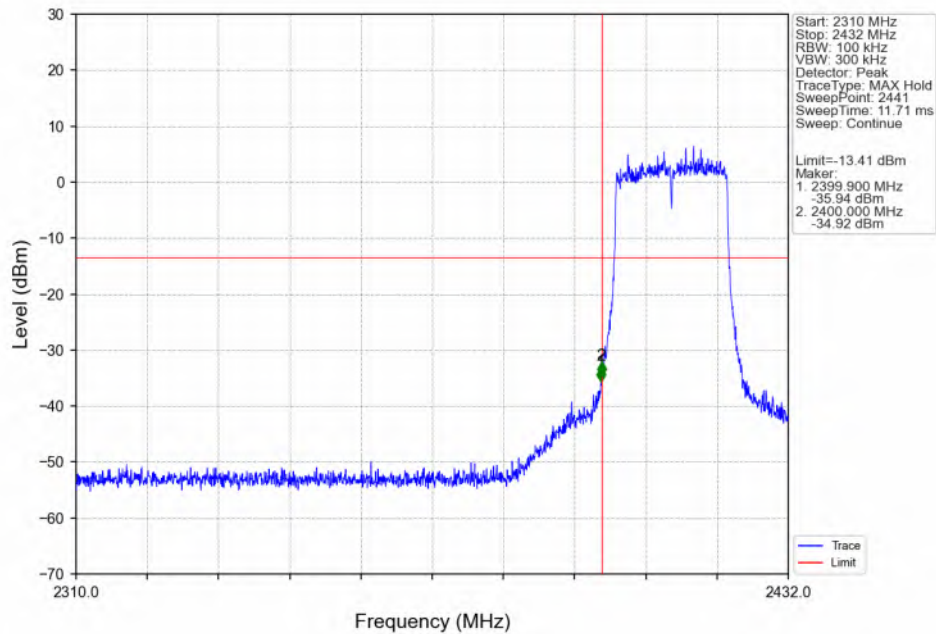
## 802.11ax(HEW20) LCH\_2412MHz\_SU / Ant1 (MIMO) NTNv



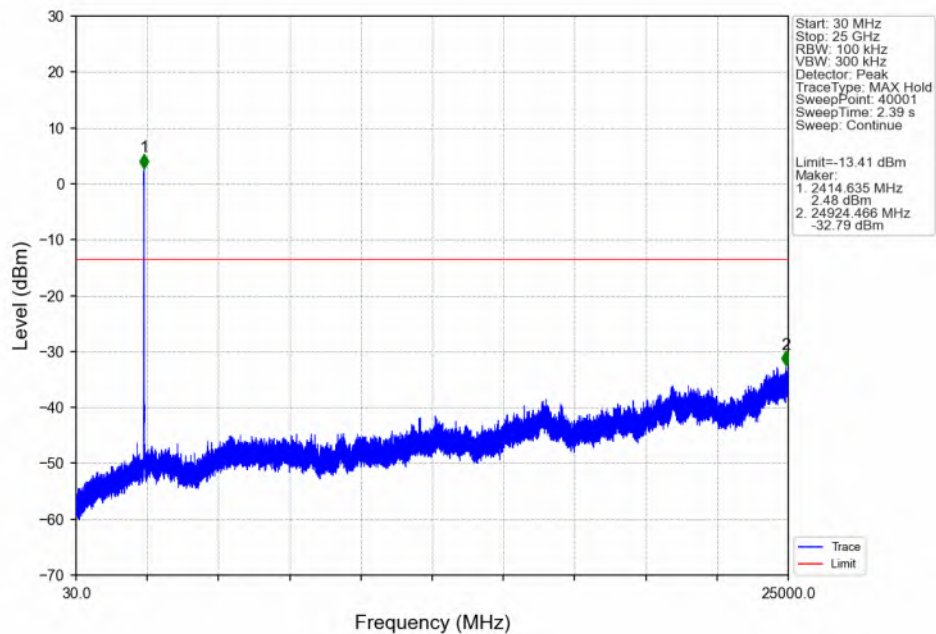
## 802.11ax(HEW20) LCH\_2412MHz\_SU / Ant1 (MIMO) NTNv



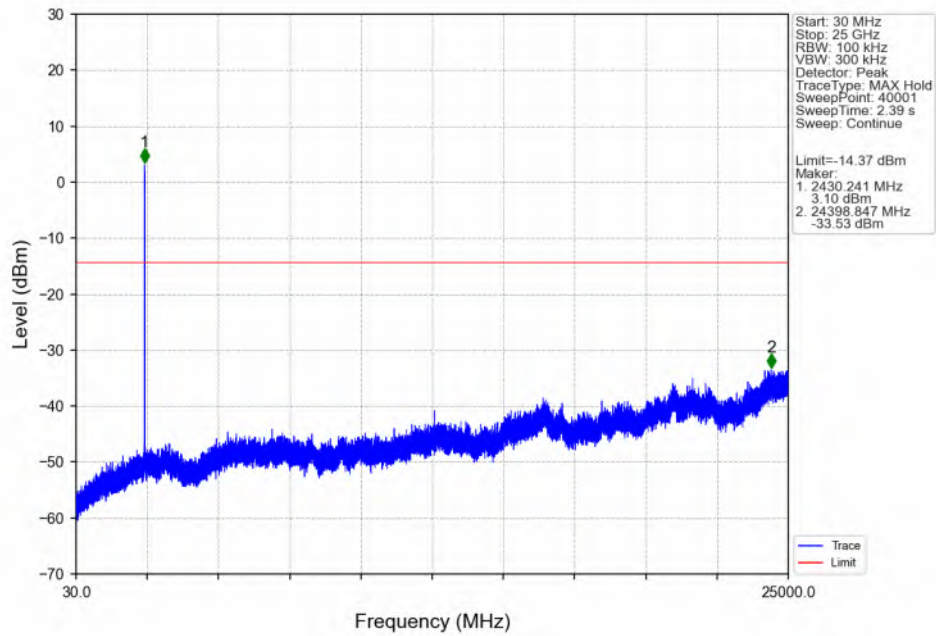
## 802.11ax(HEW20) LCH\_2412MHz\_SU / Ant2 (MIMO) NTN



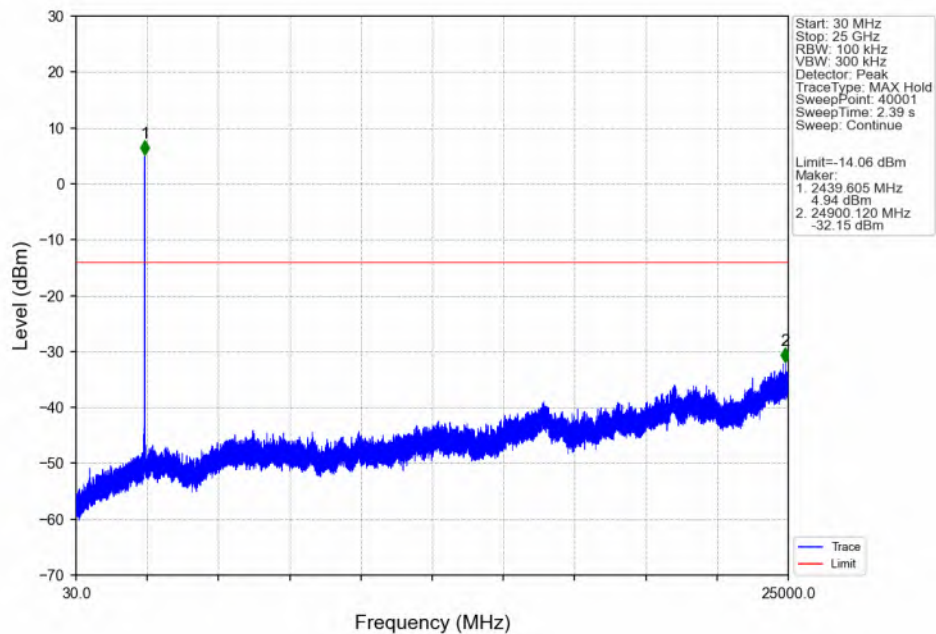
## 802.11ax(HEW20) LCH\_2412MHz\_SU / Ant2 (MIMO) NTN



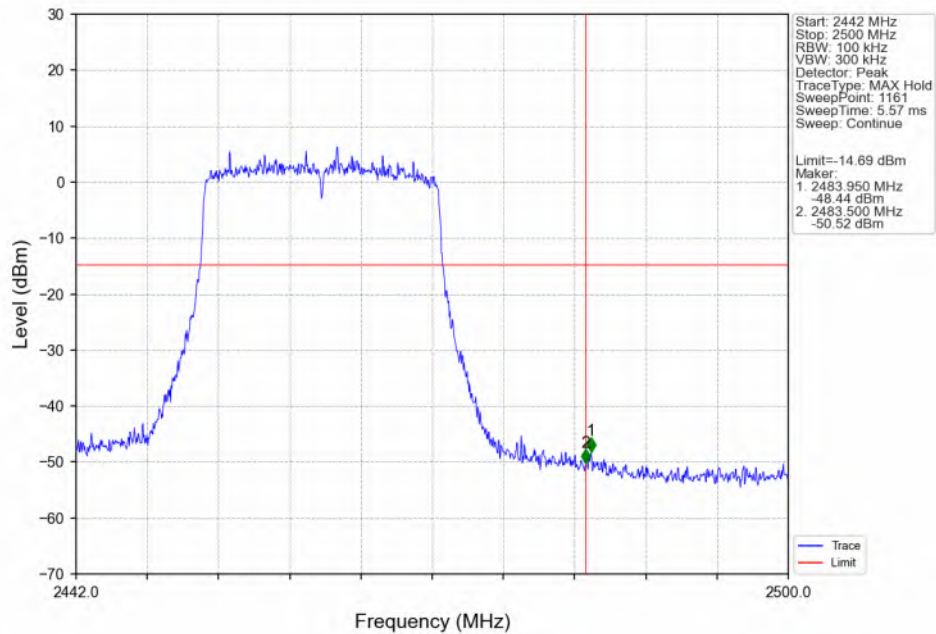
802.11ax(HEW20)\_MCH\_2437MHz\_SU / Ant1 (MIMO)\_NTNV



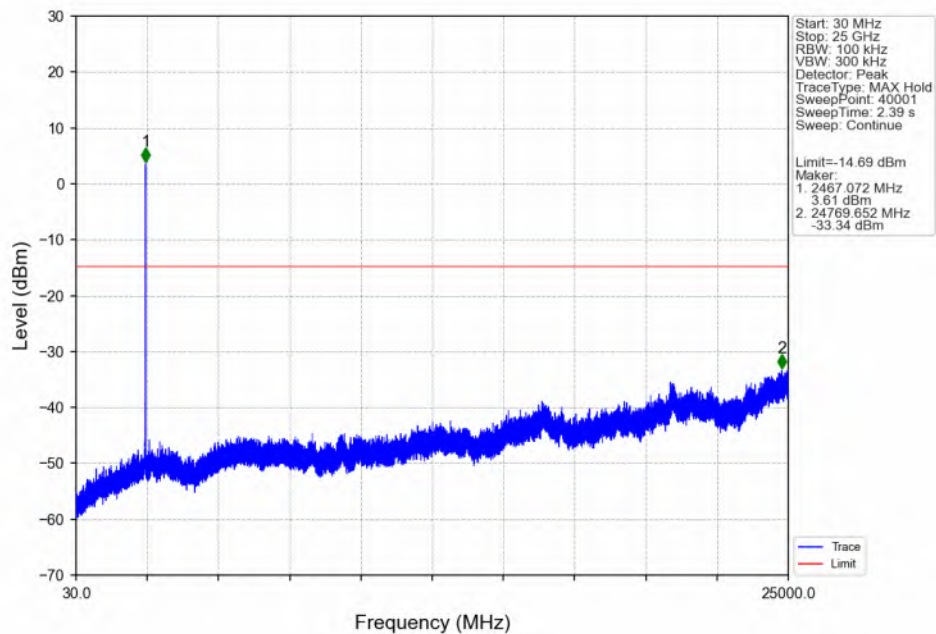
802.11ax(HEW20)\_MCH\_2437MHz\_SU / Ant2 (MIMO)\_NTNV



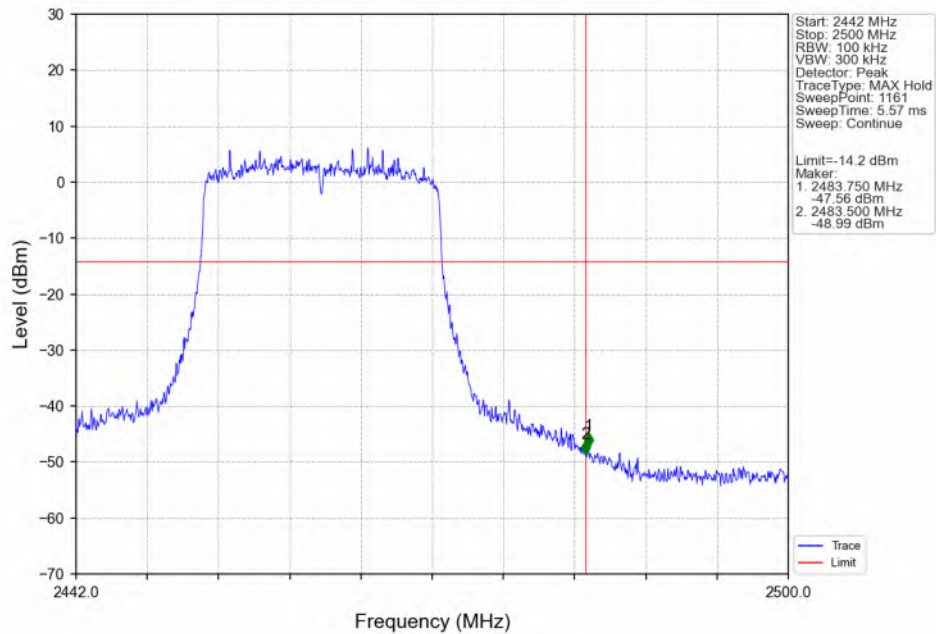
## 802.11ax(HEW20)\_HCH\_2462MHz\_SU / Ant1 (MIMO)\_NTNV



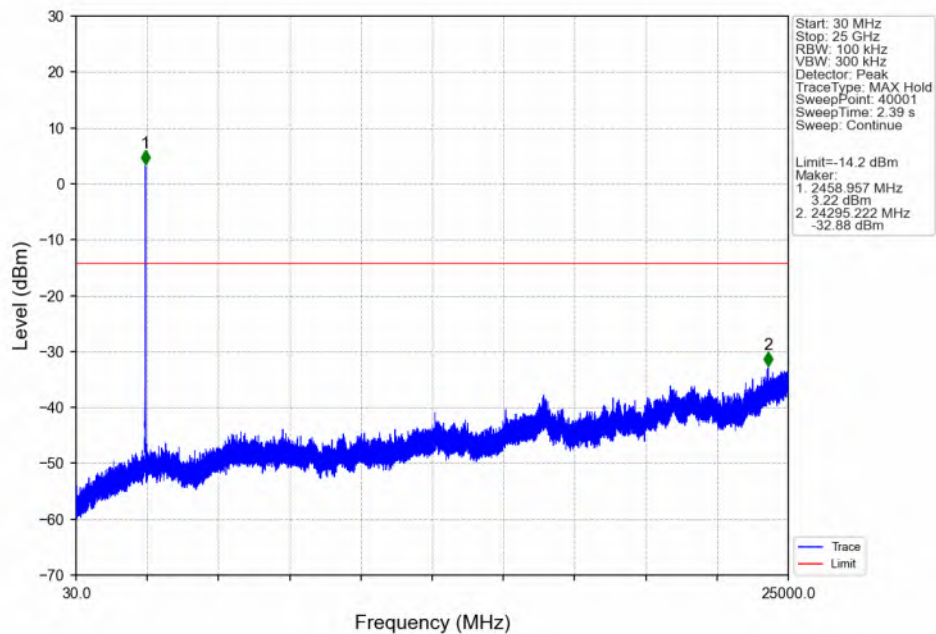
## 802.11ax(HEW20)\_HCH\_2462MHz\_SU / Ant1 (MIMO)\_NTNV



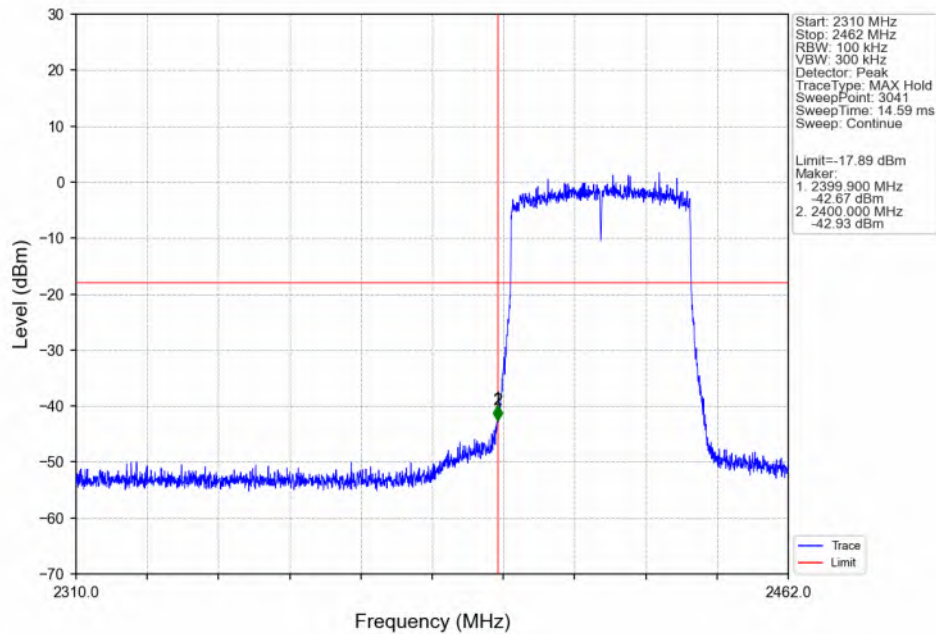
## 802.11ax(HEW20)\_HCH\_2462MHz\_SU / Ant2 (MIMO)\_NTNV



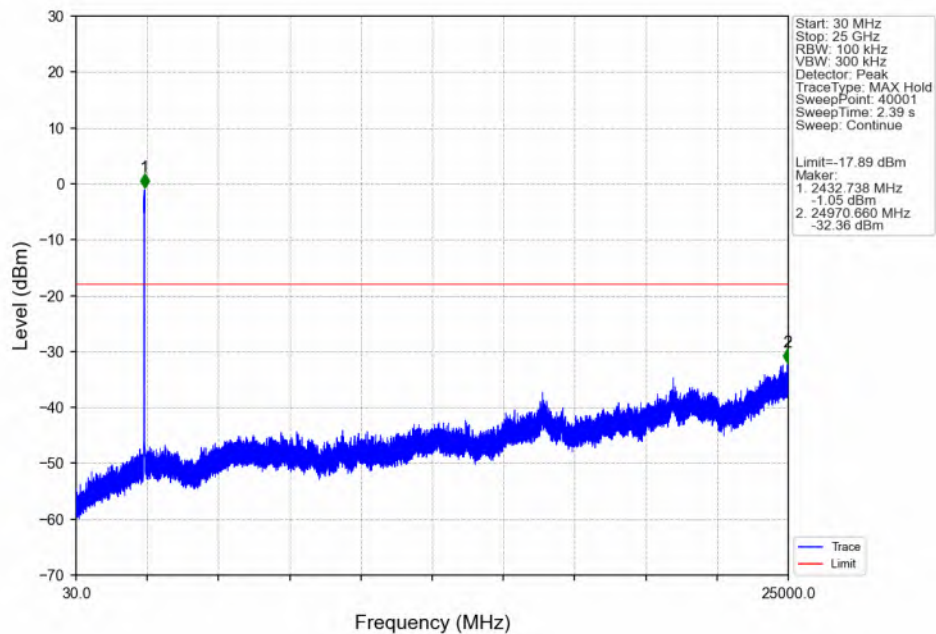
## 802.11ax(HEW20)\_HCH\_2462MHz\_SU / Ant2 (MIMO)\_NTNV



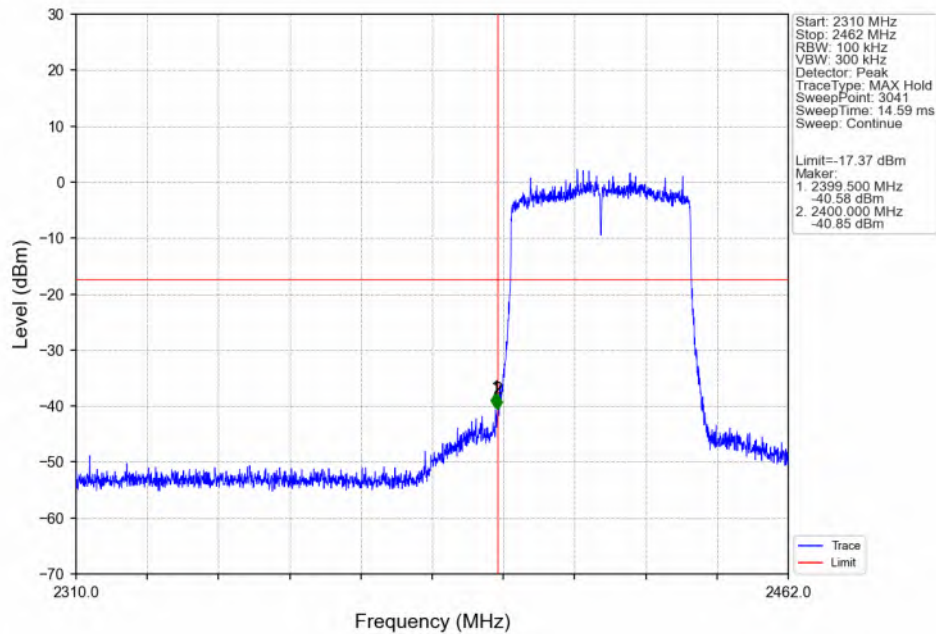
## 802.11ax(HEW40) LCH\_2422MHz\_SU / Ant1 (MIMO) NTN



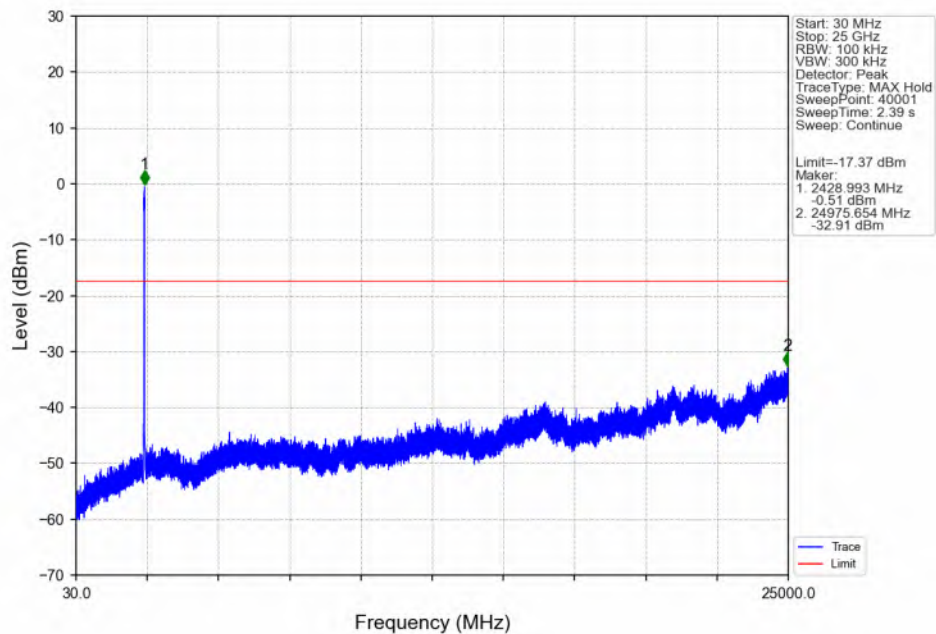
## 802.11ax(HEW40) LCH\_2422MHz\_SU / Ant1 (MIMO) NTN



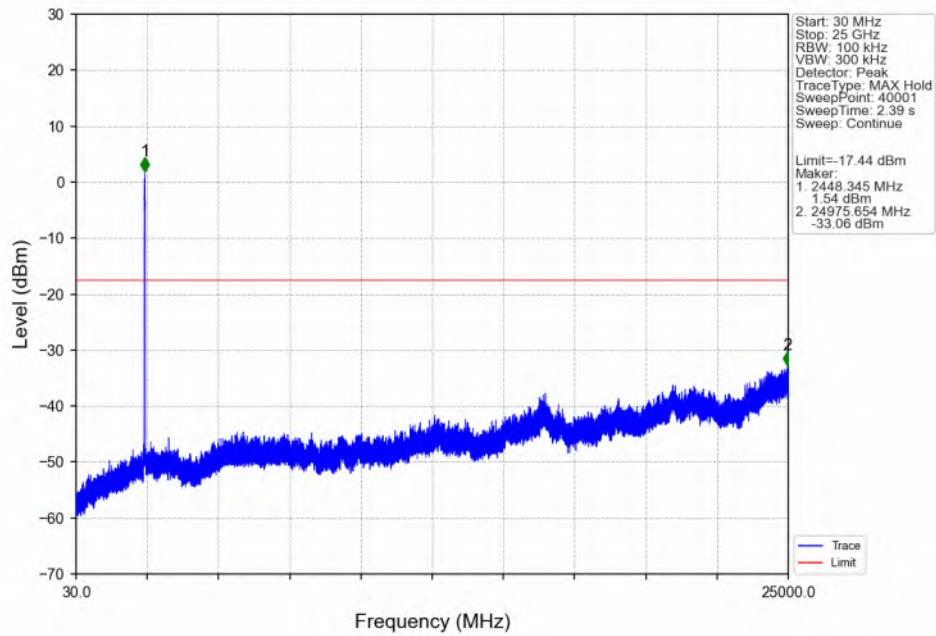
## 802.11ax(HEW40) LCH\_2422MHz\_SU / Ant2 (MIMO) \_NTNV



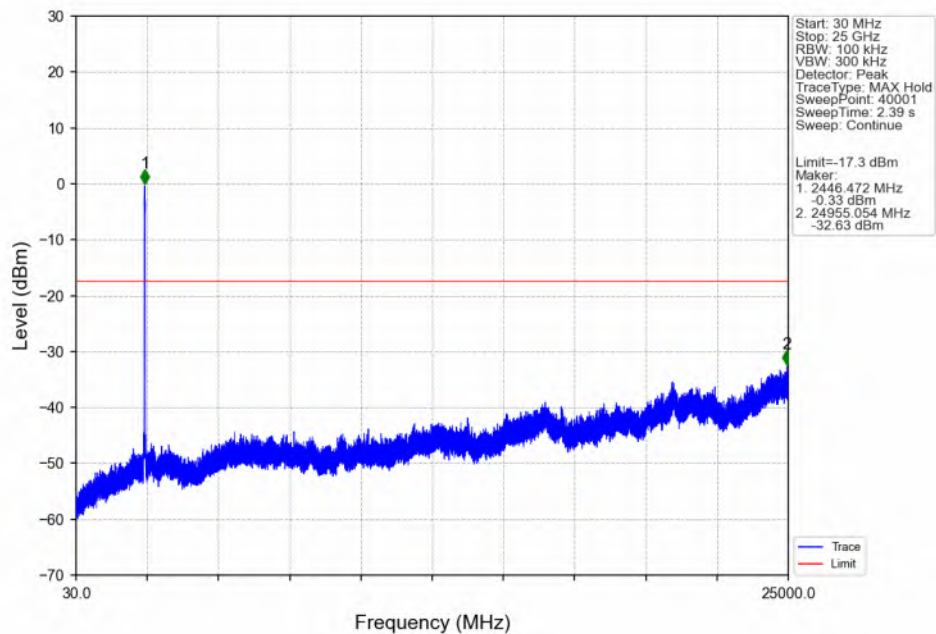
## 802.11ax(HEW40) LCH\_2422MHz\_SU / Ant2 (MIMO) \_NTNV



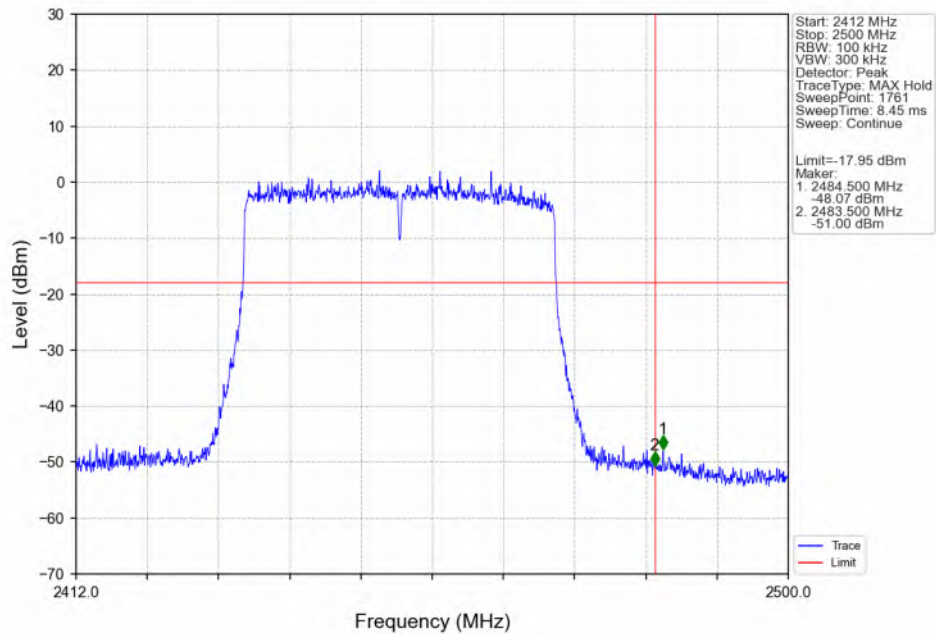
802.11ax(HEW40)\_MCH\_2437MHz\_SU / Ant1 (MIMO)\_NTNV



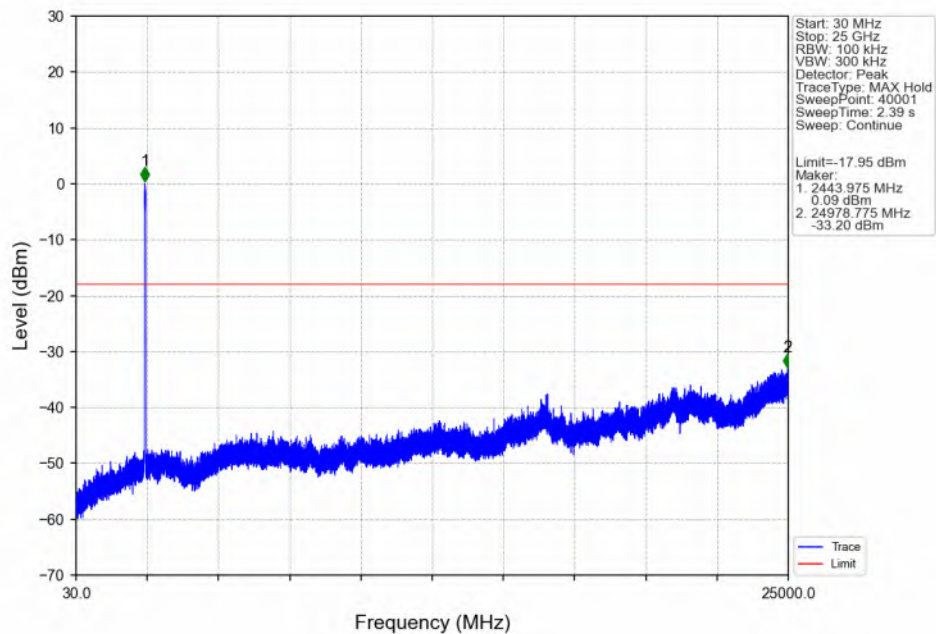
802.11ax(HEW40)\_MCH\_2437MHz\_SU / Ant2 (MIMO)\_NTNV



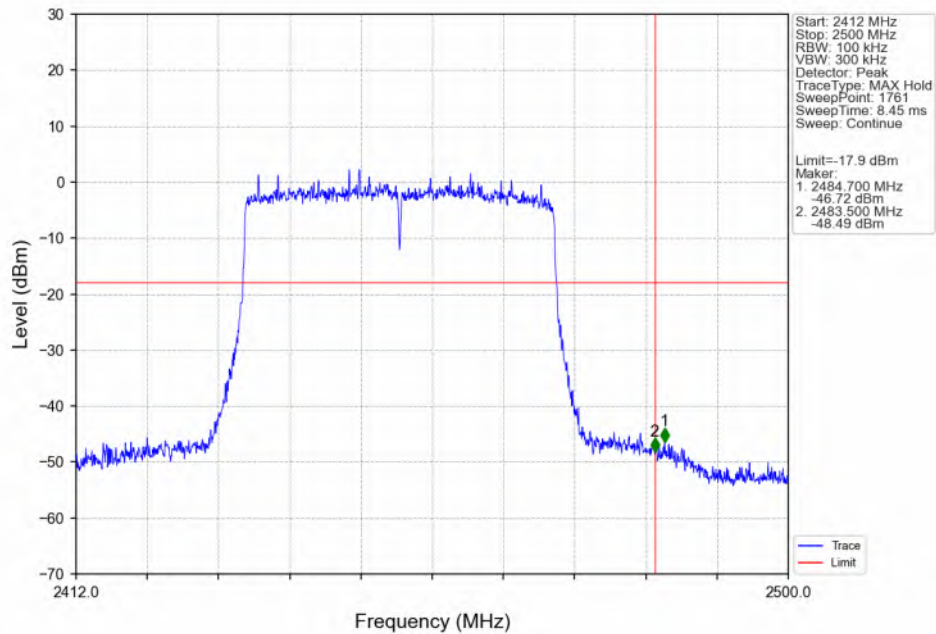
## 802.11ax(HEW40) HCH\_2452MHz\_SU / Ant1 (MIMO) NTN



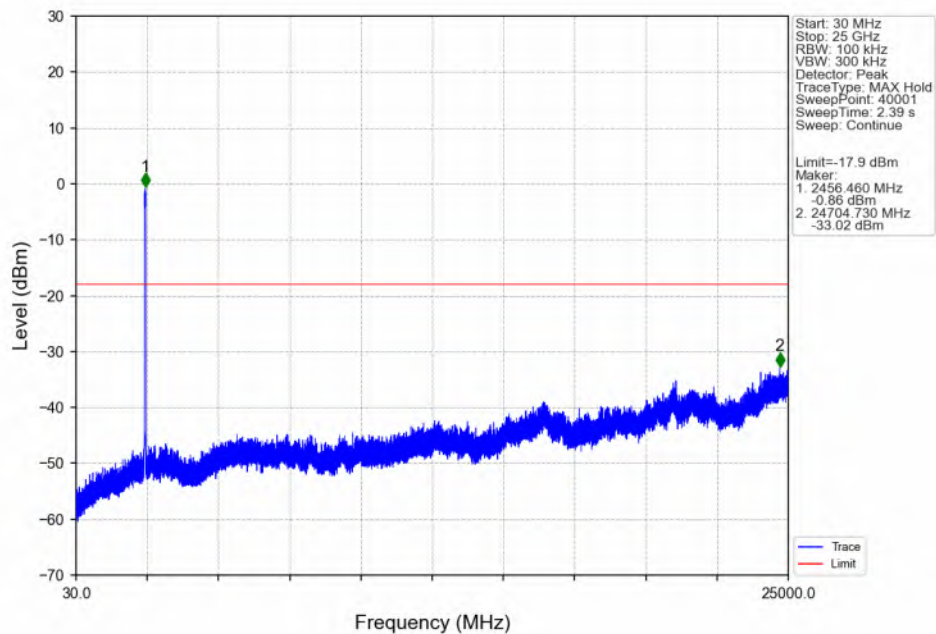
## 802.11ax(HEW40) HCH\_2452MHz\_SU / Ant1 (MIMO) NTN



## 802.11ax(HEW40) HCH\_2452MHz\_SU / Ant2 (MIMO) NTNv



## 802.11ax(HEW40) HCH\_2452MHz\_SU / Ant2 (MIMO) NTNv



- End of the Report -