# 1. Duty Cycle

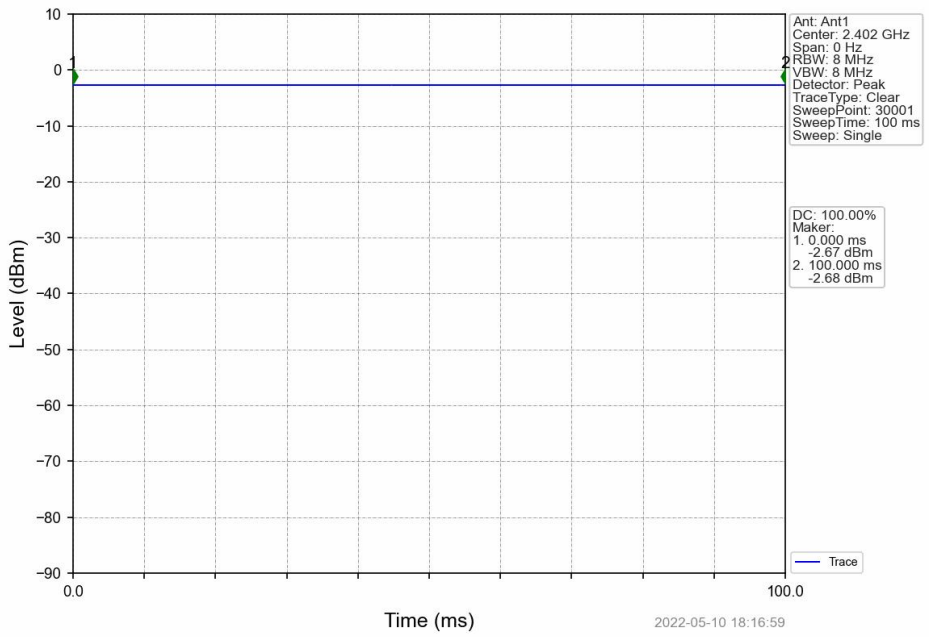
## 1.1 Ant1

### 1.1.1 Test Result

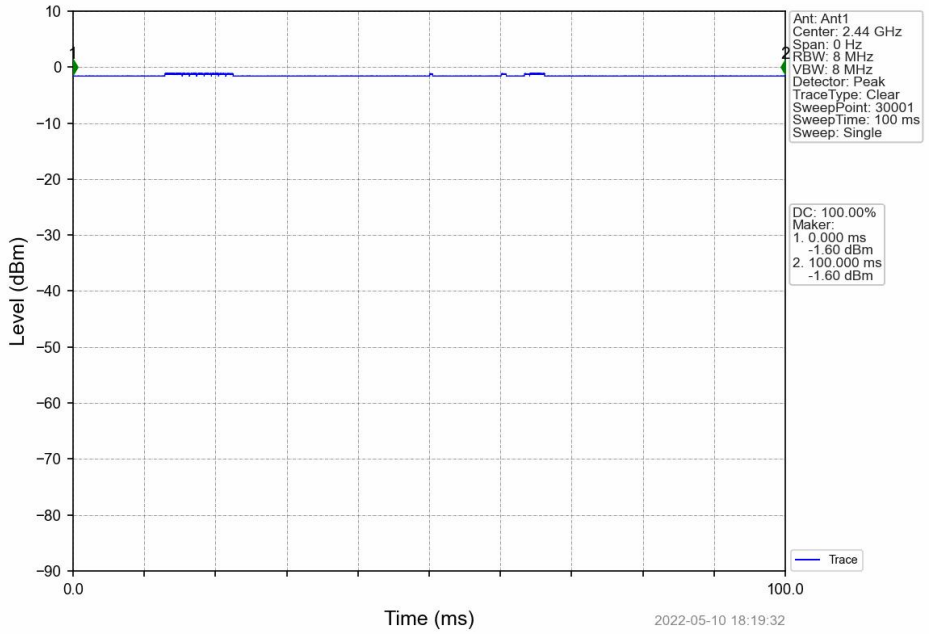
| Ant1 | | | | | | | |
|---|---|---|---|---|---|---|---|
| Mode | TX Type | Frequency (MHz) | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| 1M | SISO | 2402 | 100.000 | 100.000 | 100.00 | 0.00 | 0.00 |
| | | 2440 | 100.000 | 100.000 | 100.00 | 0.00 | 0.00 |
| | | 2480 | 100.000 | 100.000 | 100.00 | 0.00 | 0.00 |
| 2M | SISO | 2402 | 100.000 | 100.000 | 100.00 | 0.00 | 0.00 |
| | | 2440 | 100.000 | 100.000 | 100.00 | 0.00 | 0.00 |
| | | 2480 | 100.000 | 100.000 | 100.00 | 0.00 | 0.00 |

## 1.1.2 Test Graph

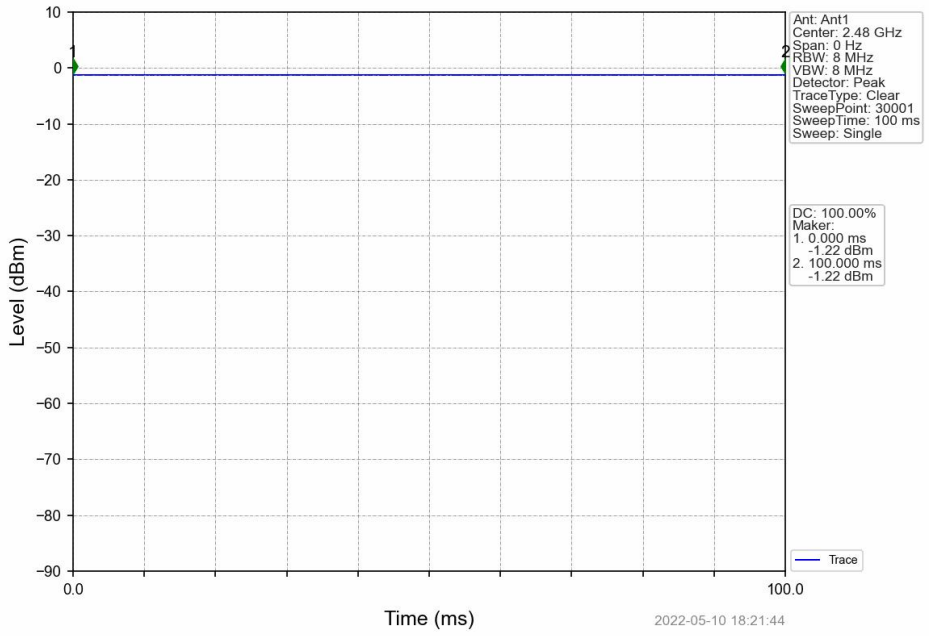
1M_LCH_2402MHz_Ant1_NTNV



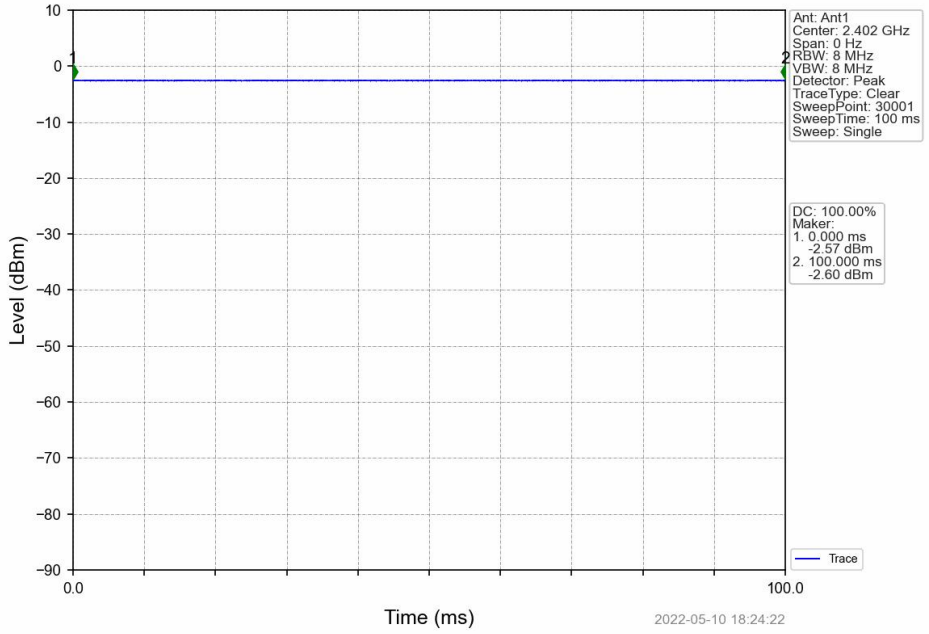

1M_MCH_2440MHz_Ant1_NTNV



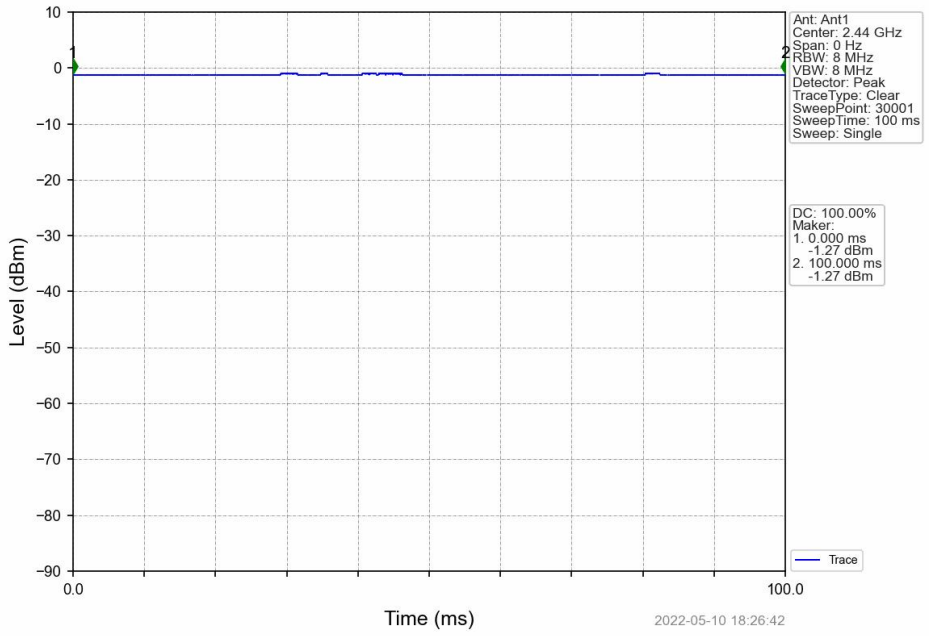
1M_HCH_2480MHz_Ant1_NTNV



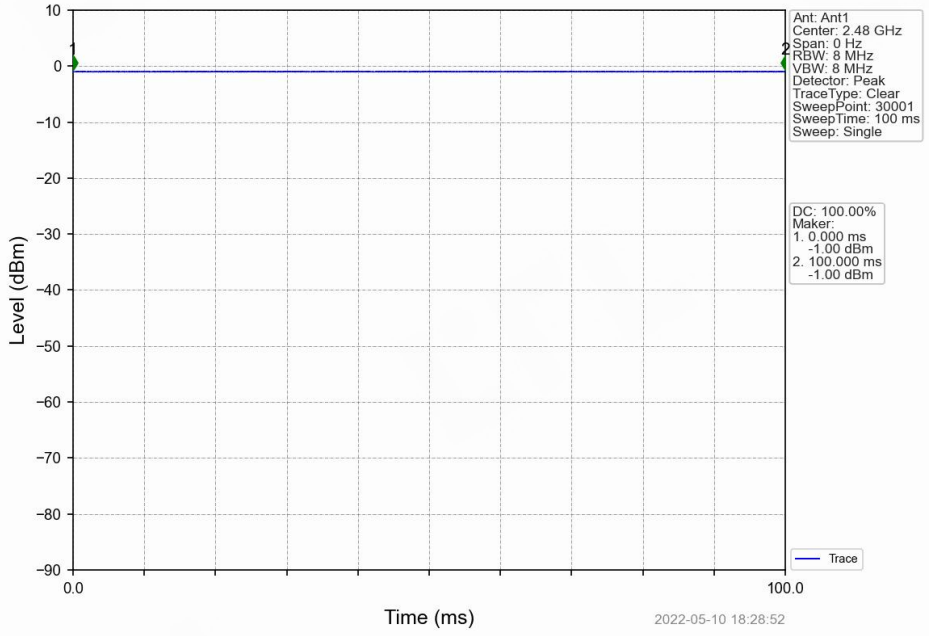

2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV




2M_HCH_2480MHz_Ant1_NTNV



# 2. Bandwidth

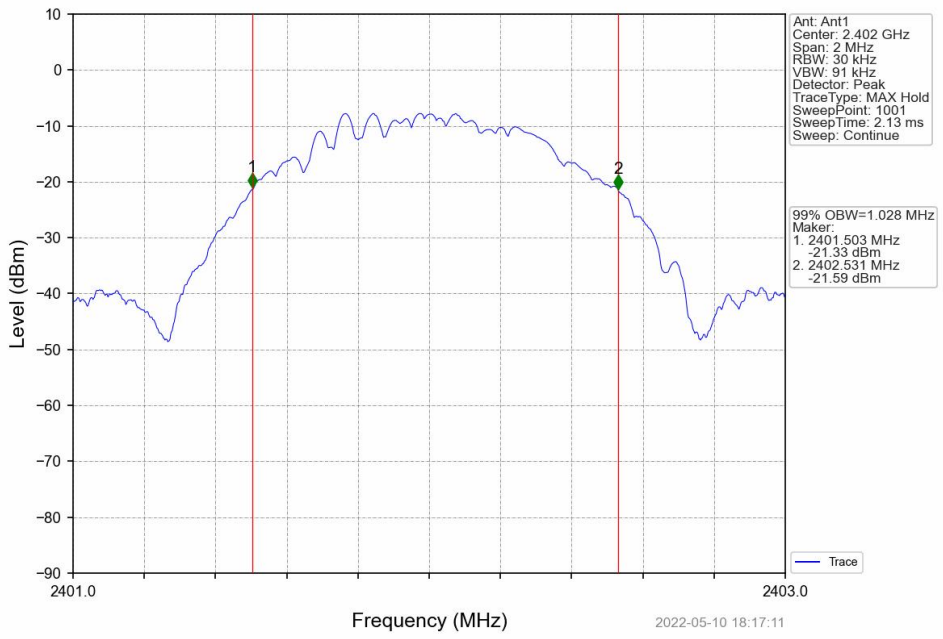
## 2.1 OBW

### 2.1.1 Test Result

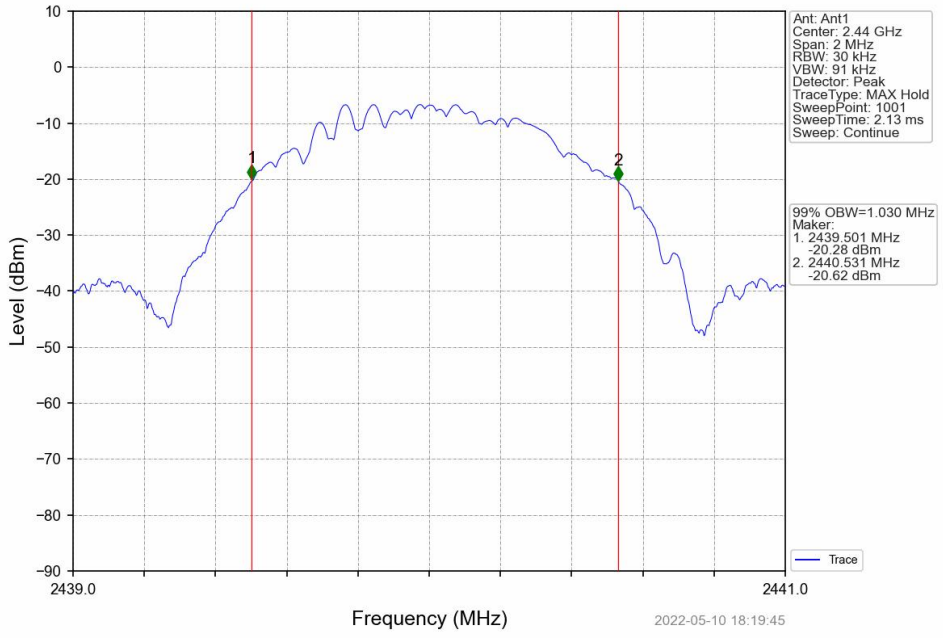
| Mode | TX Type | Frequency (MHz) | ANT | 99% Occupied Bandwidth (MHz) Result | Verdict |
|---|---|---|---|---|---|
| 1M | SISO | 2402 | 1 | 1.028 | Pass |
| | | 2440 | 1 | 1.030 | Pass |
| | | 2480 | 1 | 1.030 | Pass |
| 2M | SISO | 2402 | 1 | 2.053 | Pass |
| | | 2440 | 1 | 2.057 | Pass |
| | | 2480 | 1 | 2.053 | Pass |

## 2.1.2 Test Graph

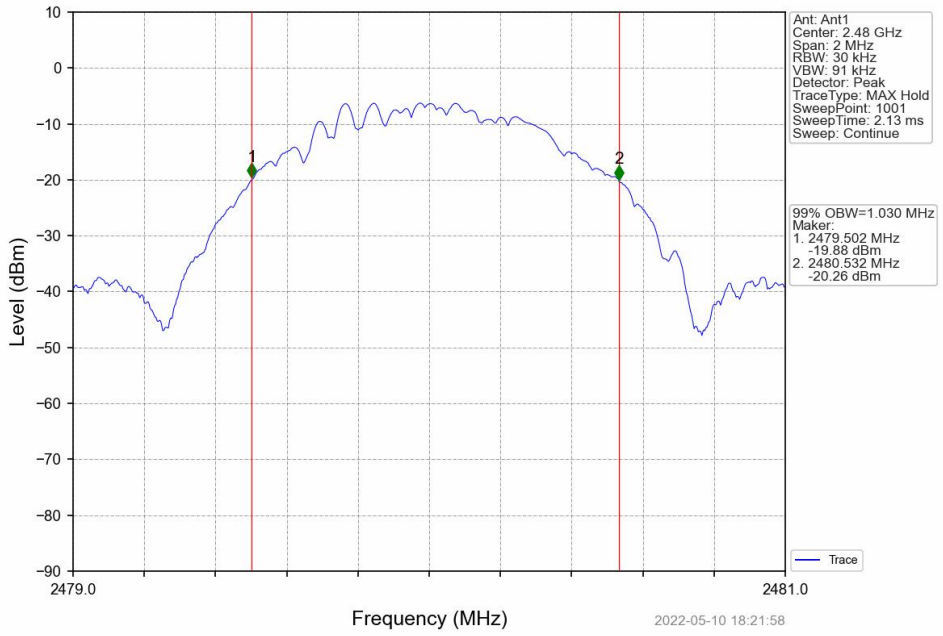
1M_LCH_2402MHz_Ant1_NTNV



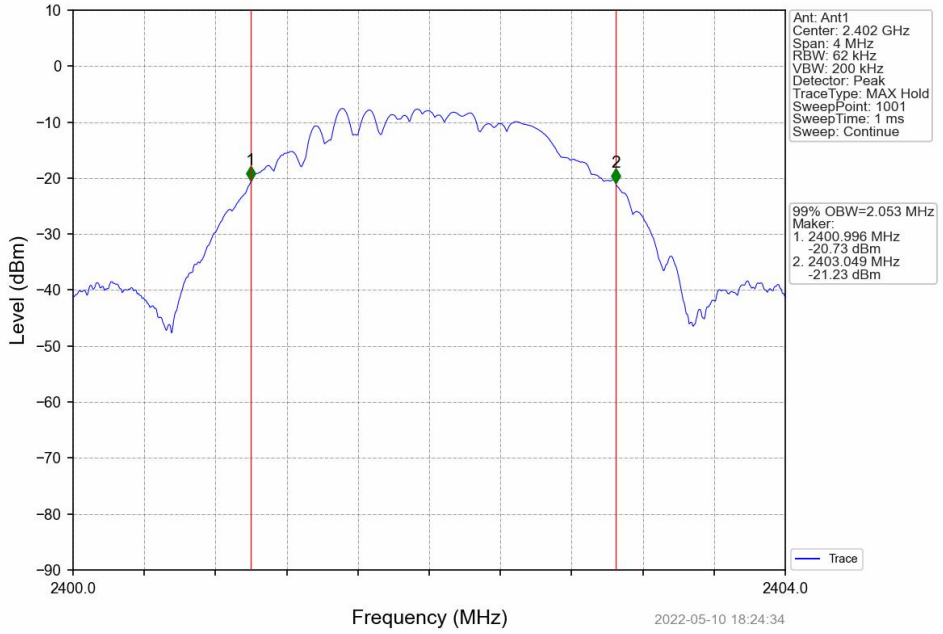

1M_MCH_2440MHz_Ant1_NTNV



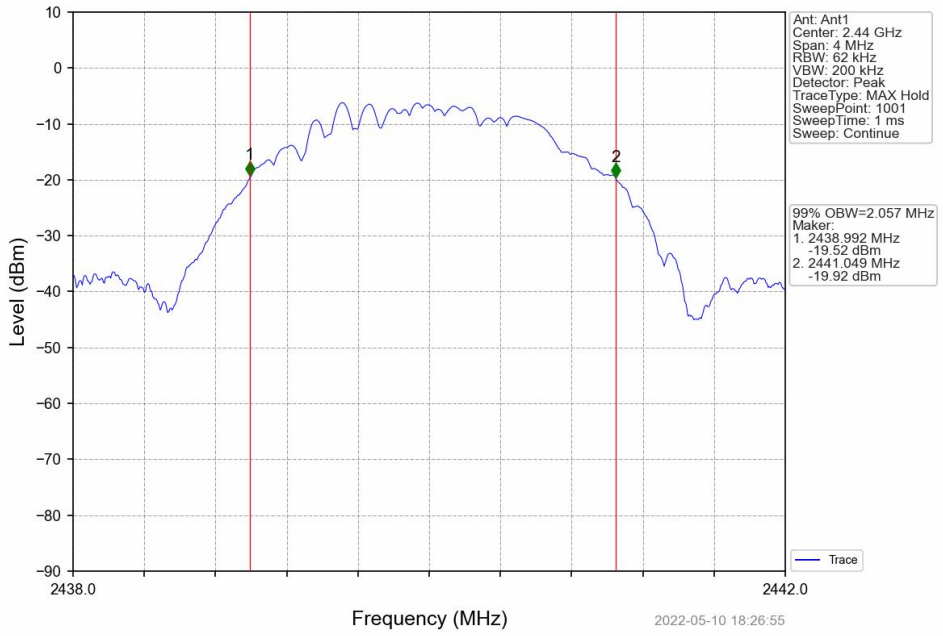
1M_HCH_2480MHz_Ant1_NTNV



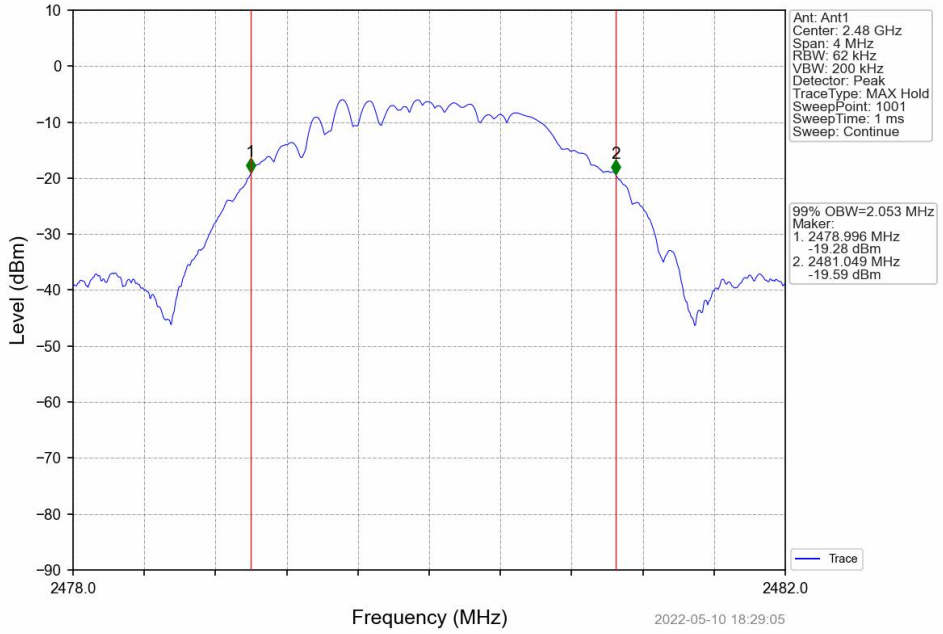

2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV




2M_HCH_2480MHz_Ant1_NTNV



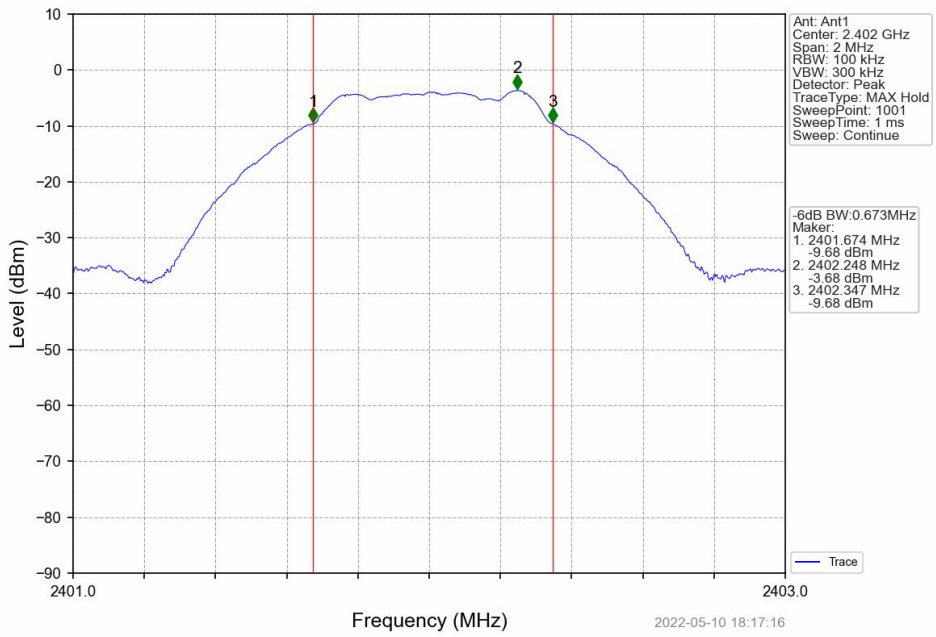
## 2.2 6dB BW

### 2.2.1 Test Result

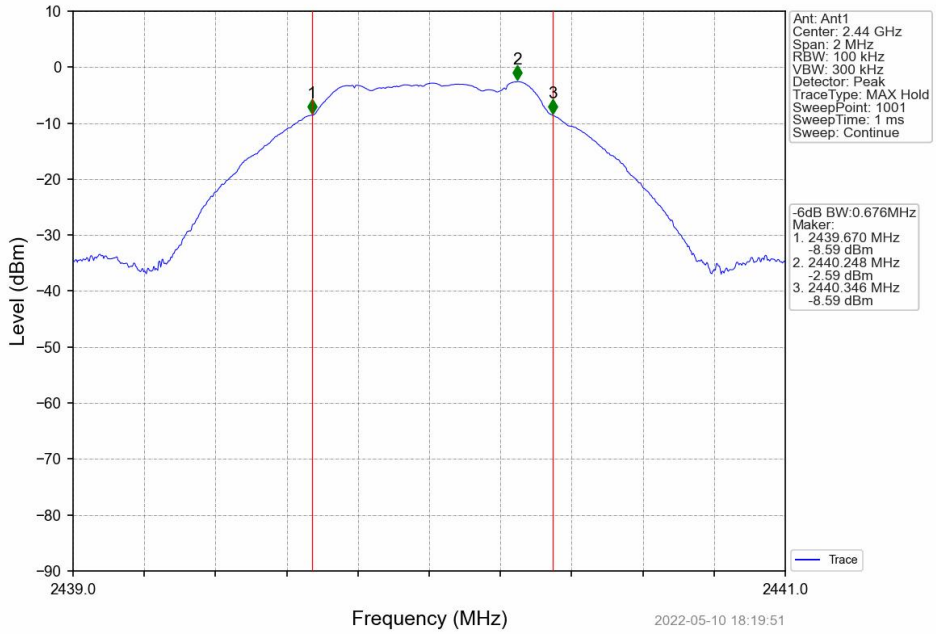
| Mode | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) | | Verdict |
|---|---|---|---|---|---|---|
| | | | | Result | Limit | |
| 1M | SISO | 2402 | 1 | 0.673 | >=0.5 | Pass |
| | | 2440 | 1 | 0.676 | >=0.5 | Pass |
| | | 2480 | 1 | 0.669 | >=0.5 | Pass |
| 2M | SISO | 2402 | 1 | 1.374 | >=0.5 | Pass |
| | | 2440 | 1 | 1.373 | >=0.5 | Pass |
| | | 2480 | 1 | 1.369 | >=0.5 | Pass |

## 2.2.2 Test Graph

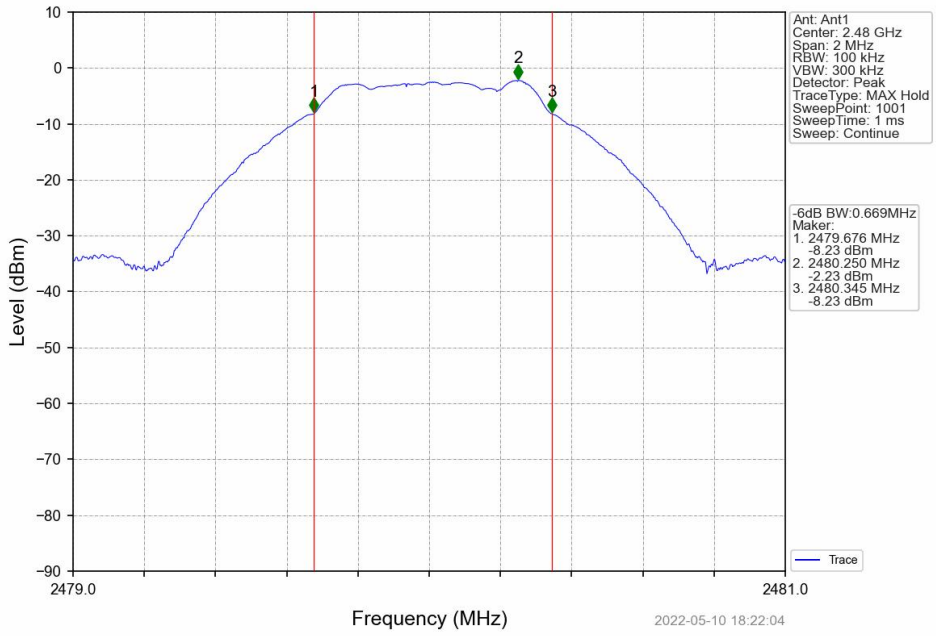
1M_LCH_2402MHz_Ant1_NTNV



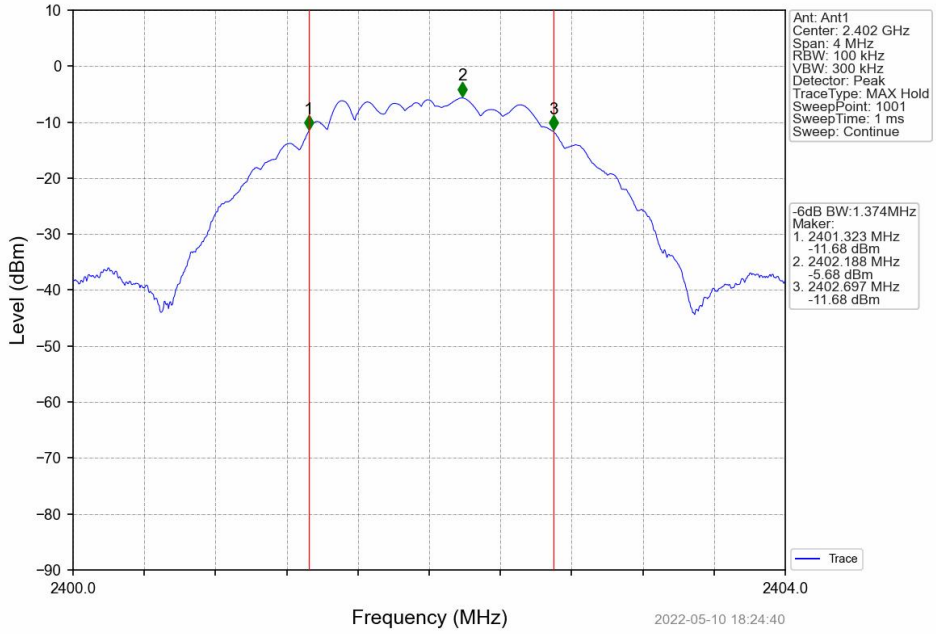

1M_MCH_2440MHz_Ant1_NTNV



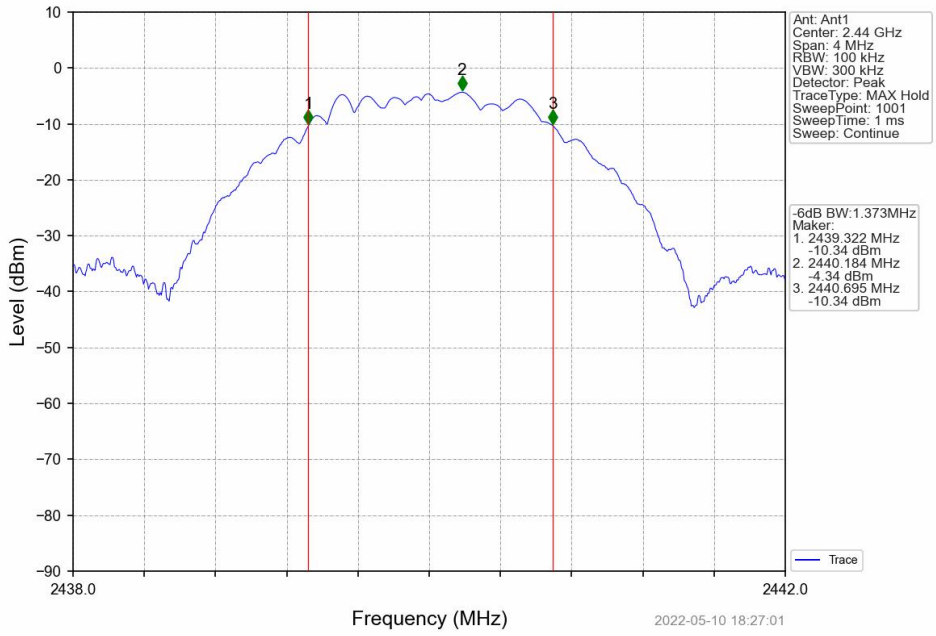
1M_HCH_2480MHz_Ant1_NTNV



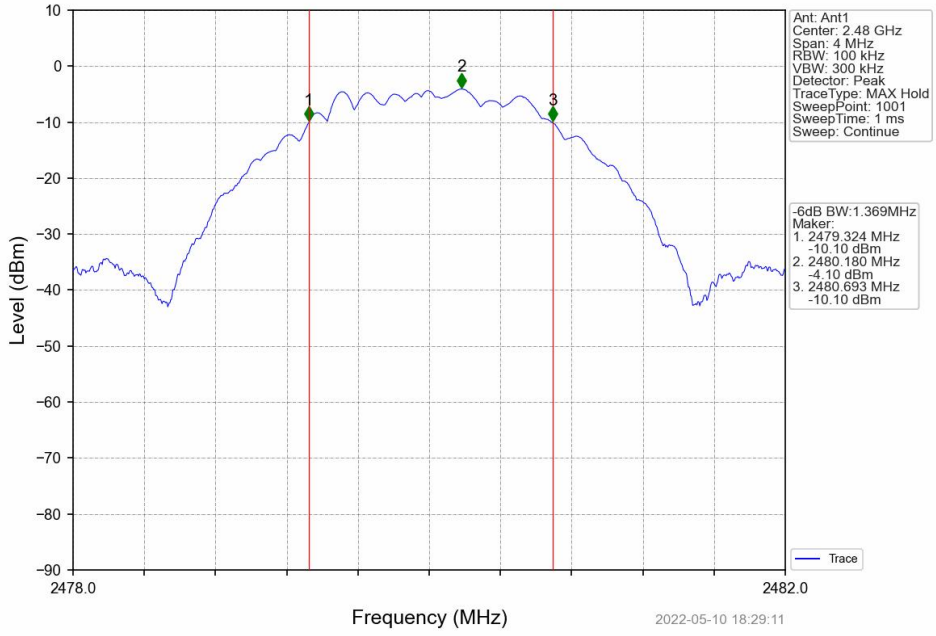

2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV




2M_HCH_2480MHz_Ant1_NTNV



# 3. Maximum Conducted Output Power

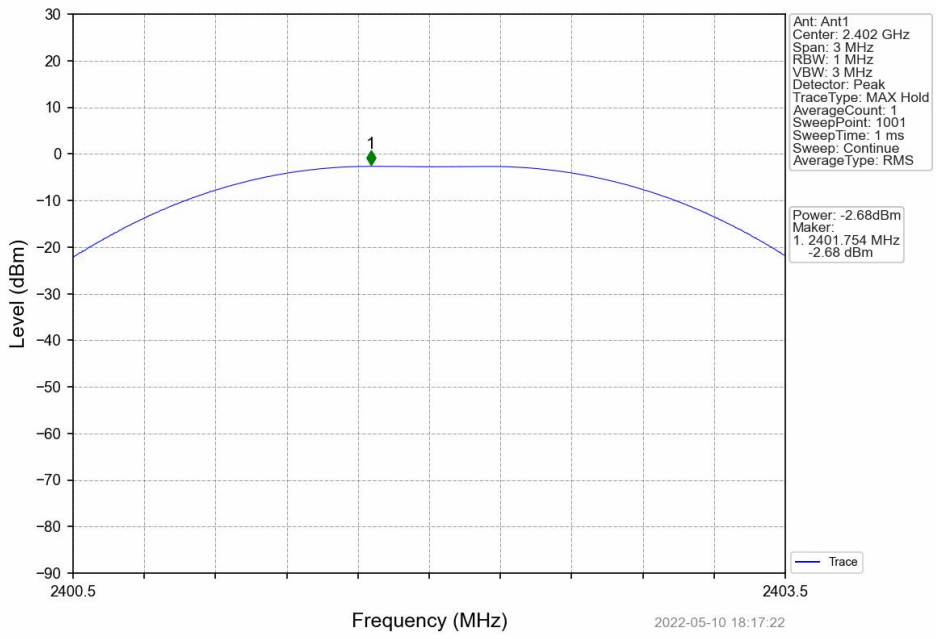
## 3.1 Power

### 3.1.1 Test Result

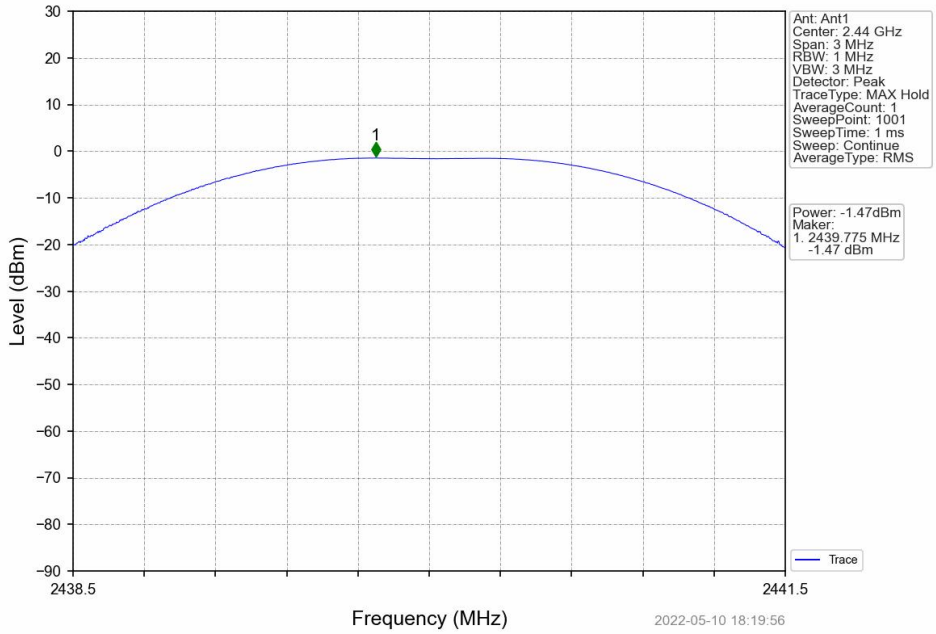
| Mode | TX Type | Frequency (MHz) | Maximum Peak Conducted Output Power (dBm) | | Verdict |
|---|---|---|---|---|---|
| | | | ANT1 | Limit | |
| 1M | SISO | 2402 | -2.68 | <=30 | Pass |
| | | 2440 | -1.47 | <=30 | Pass |
| | | 2480 | -1.22 | <=30 | Pass |
| 2M | SISO | 2402 | -2.63 | <=30 | Pass |
| | | 2440 | -1.14 | <=30 | Pass |
| | | 2480 | -1.02 | <=30 | Pass |
| Note1: Antenna Gain: Ant1: 2.00dBi; | | | | | |

## 3.1.2 Test Graph

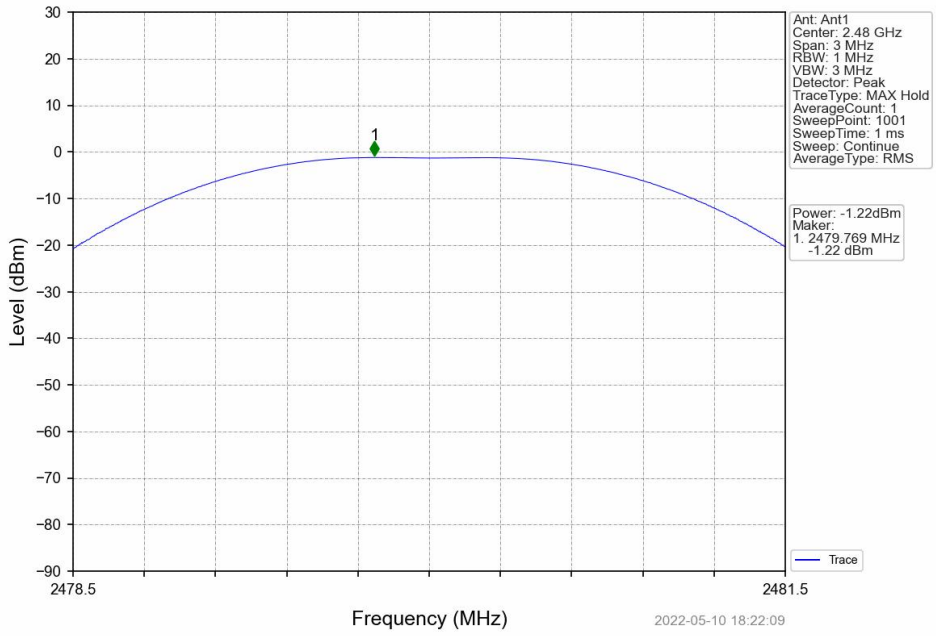
1M_LCH_2402MHz_Ant1_NTNV



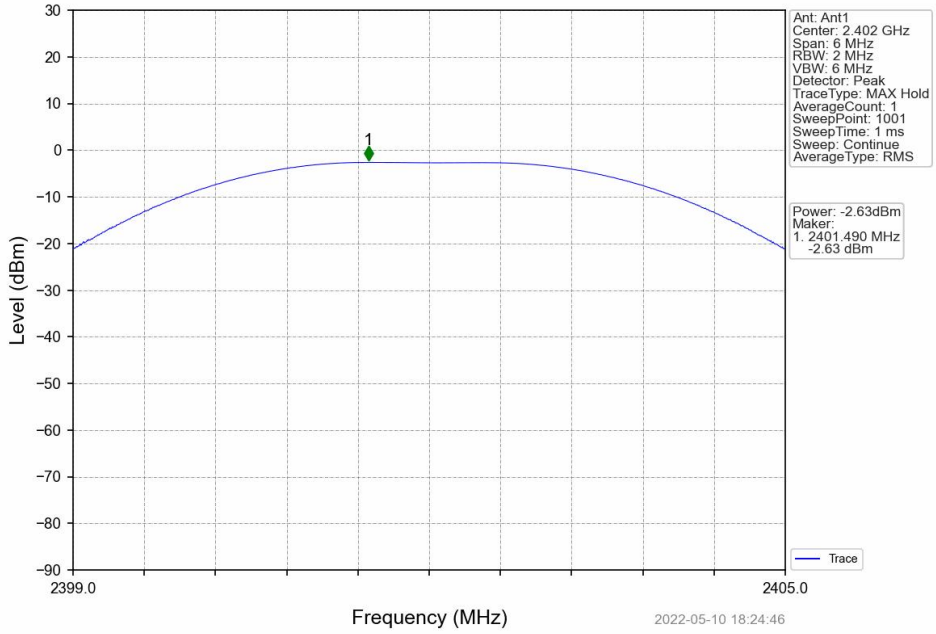

1M_MCH_2440MHz_Ant1_NTNV



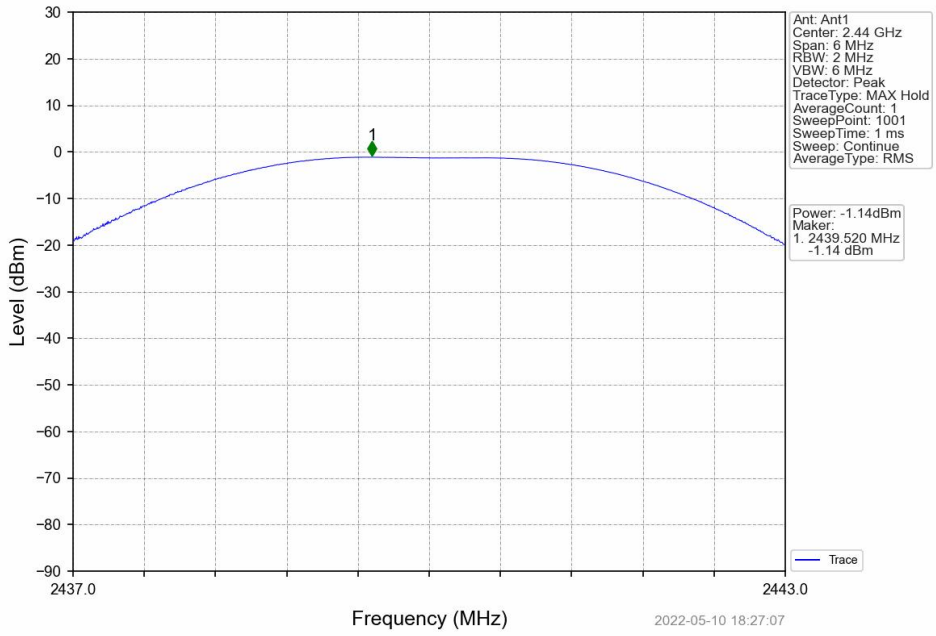
1M_HCH_2480MHz_Ant1_NTNV



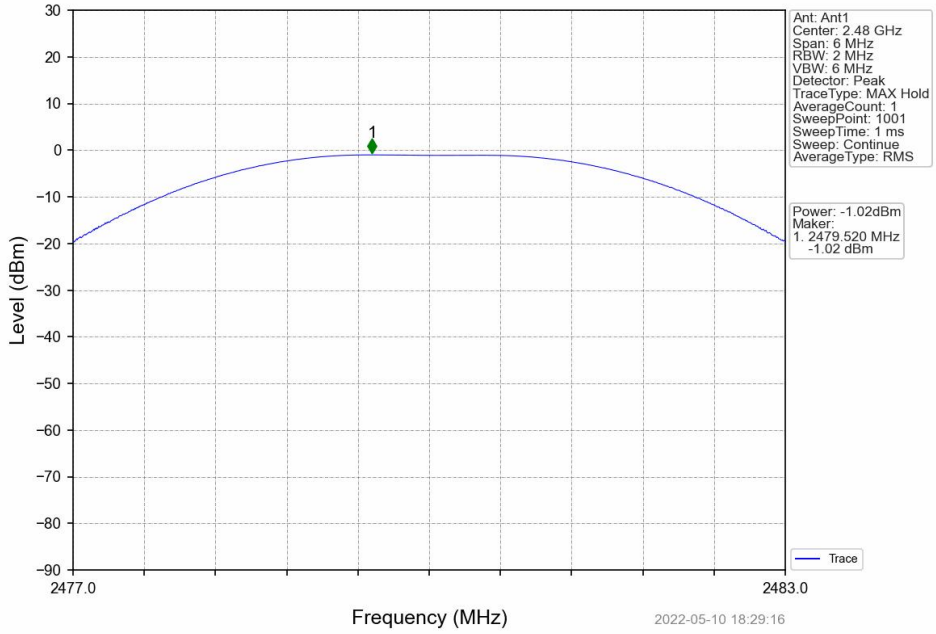

2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV




2M_HCH_2480MHz_Ant1_NTNV



# 4. Maximum Power Spectral Density

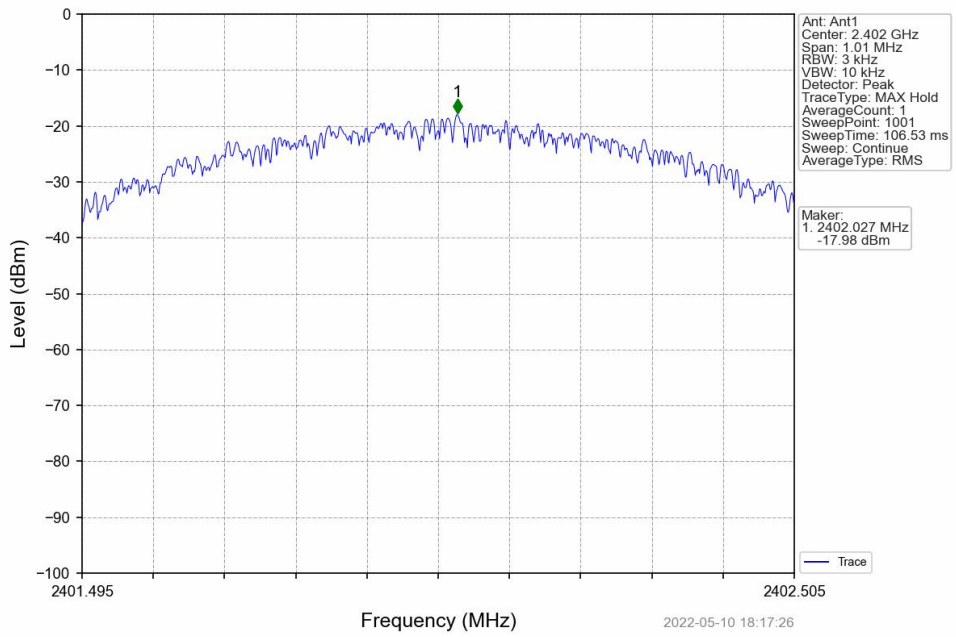
## 4.1 PSD

### 4.1.1 Test Result

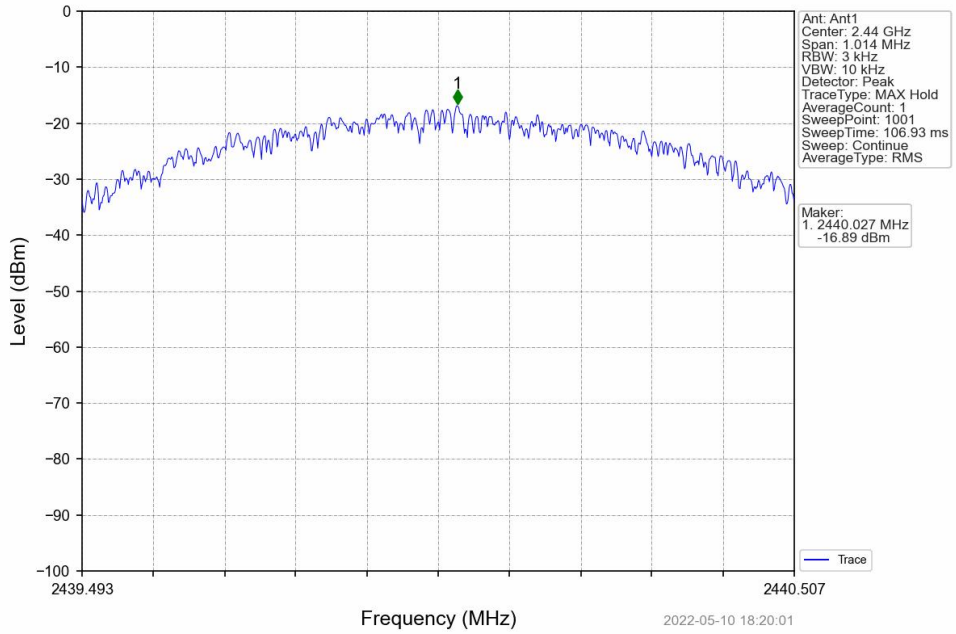
| Mode | TX Type | Frequency (MHz) | Maximum PSD (dBm/3kHz) | | Verdict |
|---|---|---|---|---|---|
| | | | ANT1 | Limit | |
| 1M | SISO | 2402 | -17.98 | <=8 | Pass |
| | | 2440 | -16.89 | <=8 | Pass |
| | | 2480 | -16.51 | <=8 | Pass |
| 2M | SISO | 2402 | -24.58 | <=8 | Pass |
| | | 2440 | -23.26 | <=8 | Pass |
| | | 2480 | -22.95 | <=8 | Pass |
| Note1: Antenna Gain: Ant1: 2.00dBi; | | | | | |

## 4.1.2 Test Graph

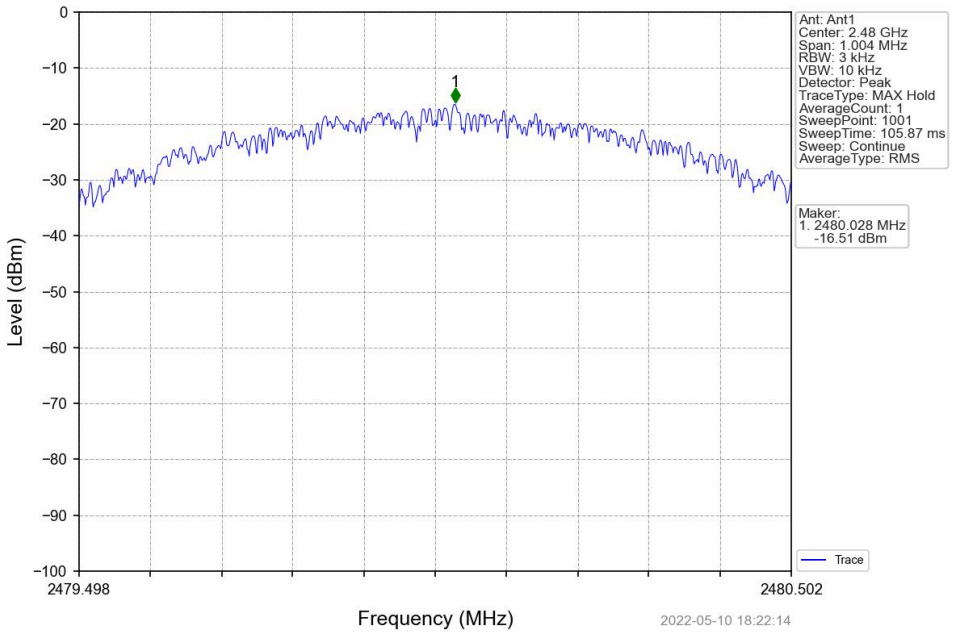
1M_LCH_2402MHz_Ant1_NTNV



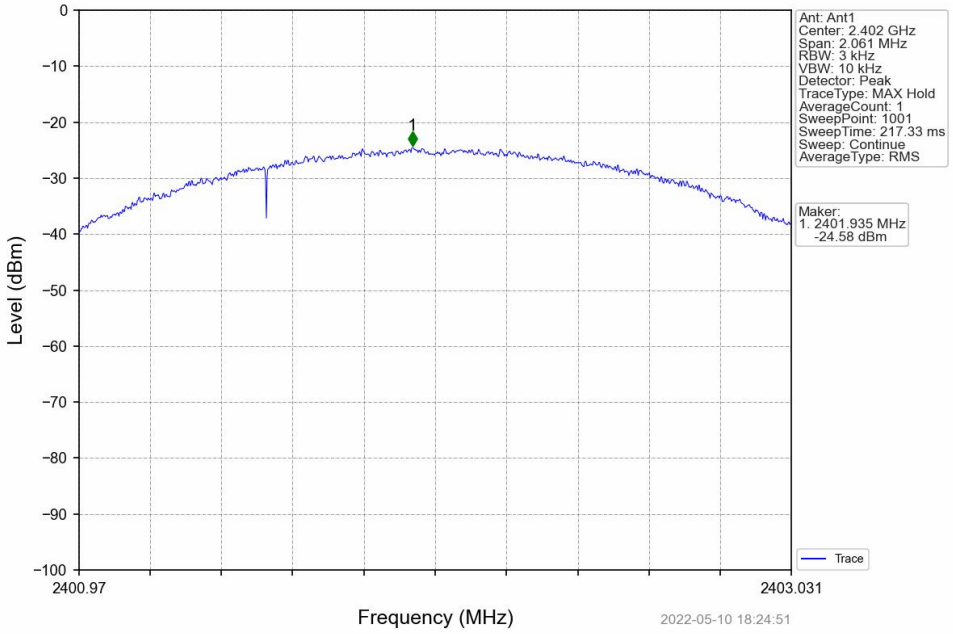

1M_MCH_2440MHz_Ant1_NTNV



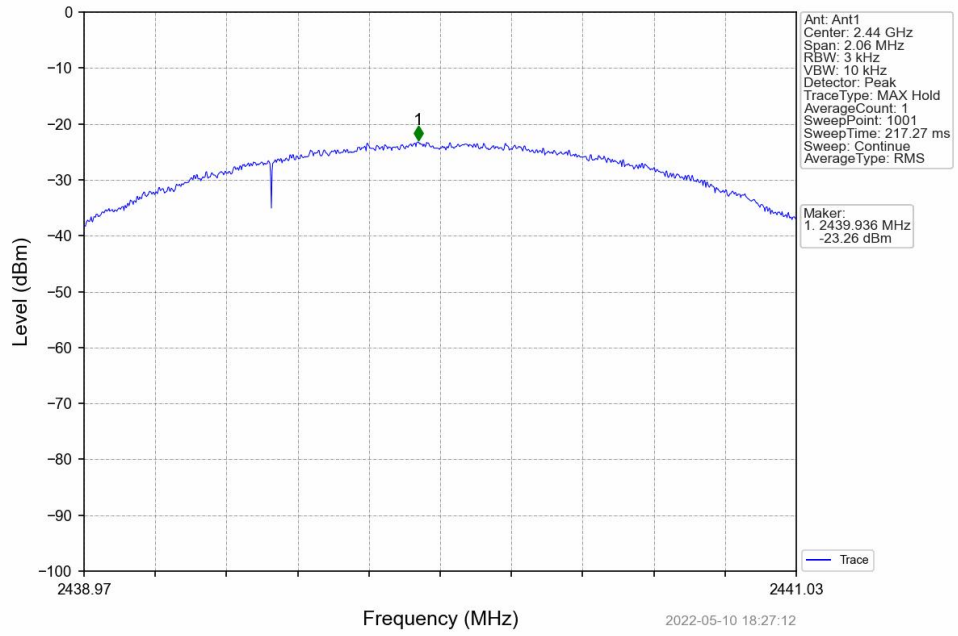
1M_HCH_2480MHz_Ant1_NTNV



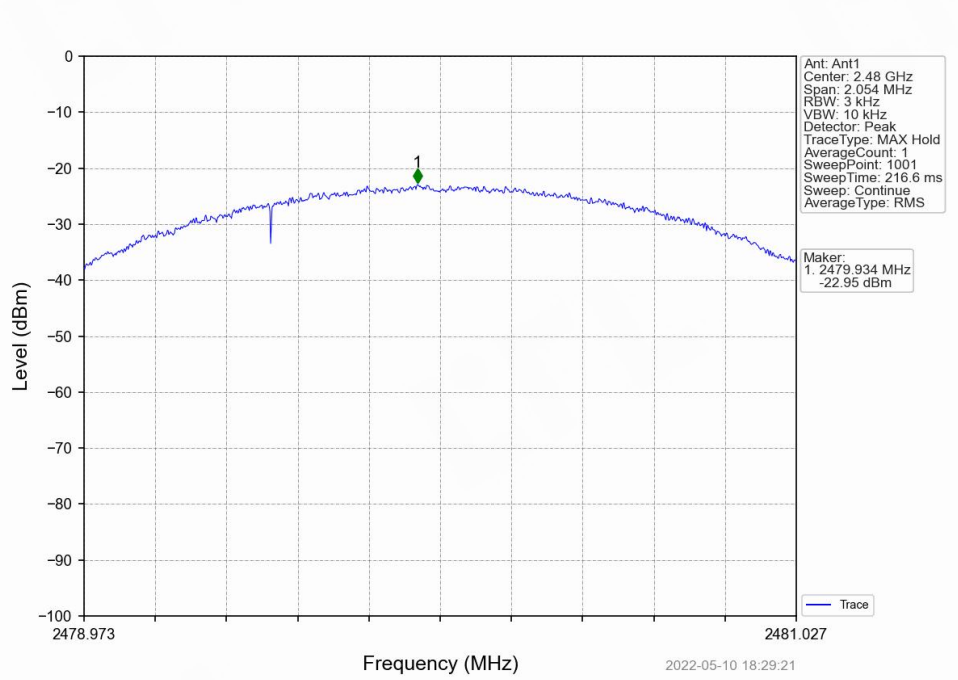

2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV




2M_HCH_2480MHz_Ant1_NTNV



# 5. Unwanted Emissions In Non-restricted Frequency Bands

## 5.1 Ref

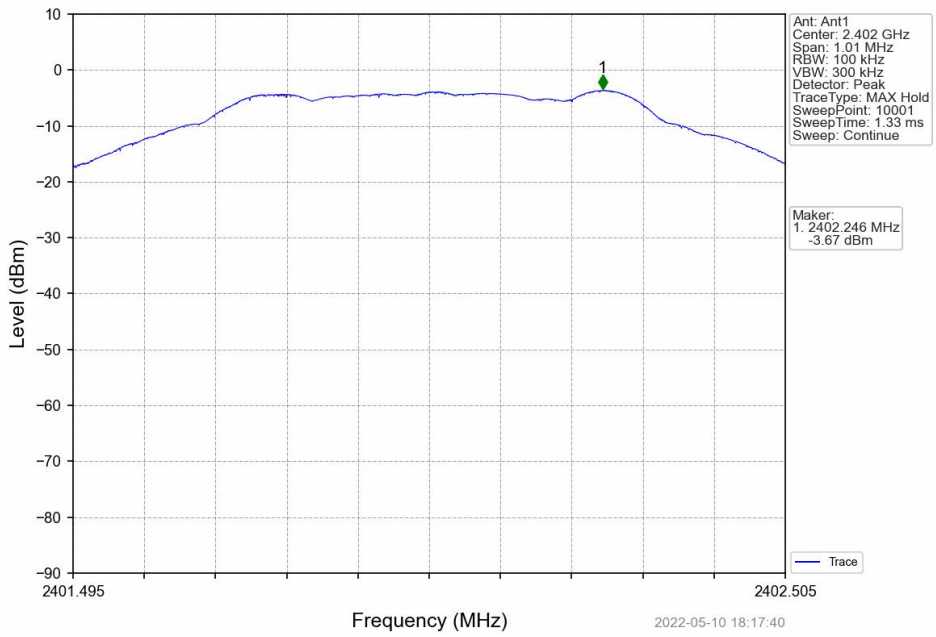
### 5.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) |
|---|---|---|---|---|
| 1M | SISO | 2402 | 1 | -3.67 |
| | | 2440 | 1 | -2.60 |
| | | 2480 | 1 | -2.23 |
| 2M | SISO | 2402 | 1 | -5.85 |
| | | 2440 | 1 | -4.50 |
| | | 2480 | 1 | -4.25 |

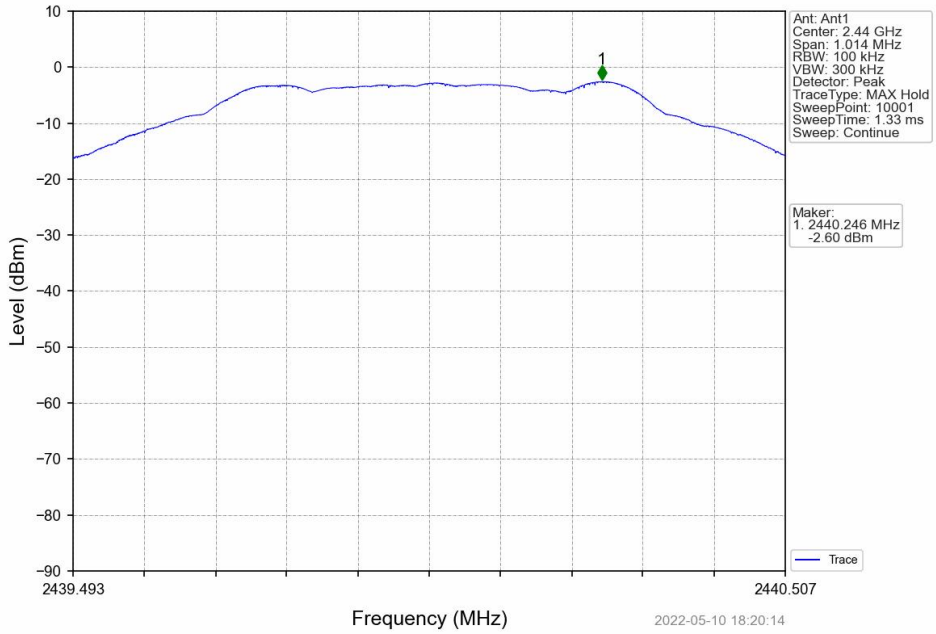
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.
Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.

## 5.1.2 Test Graph

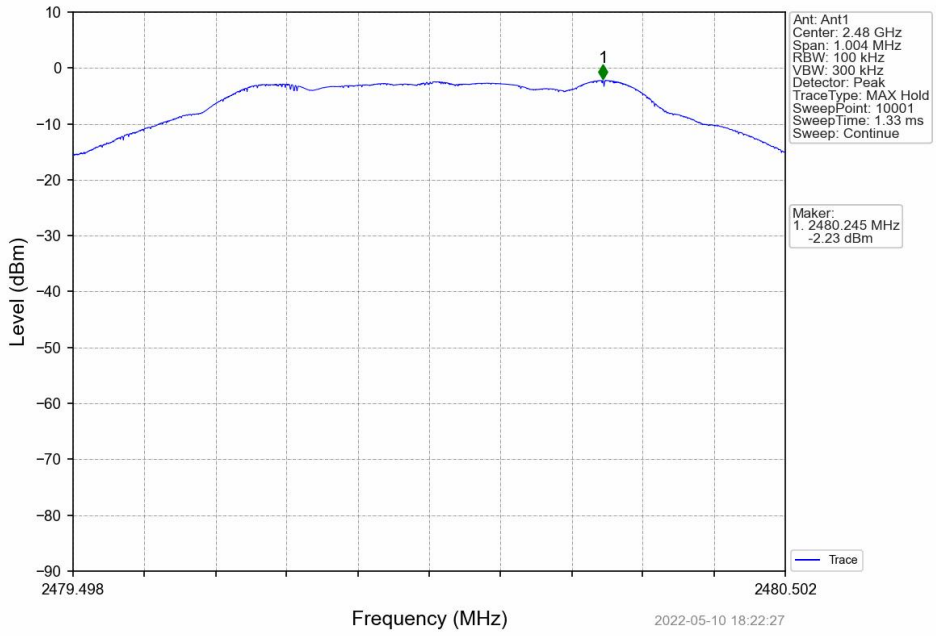
1M_LCH_2402MHz_Ant1_NTNV



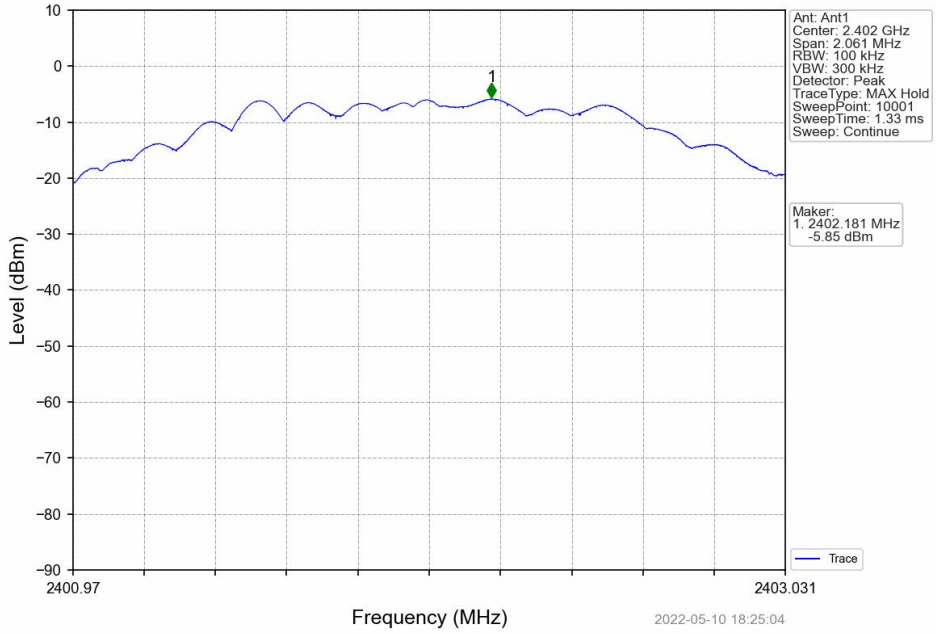

1M_MCH_2440MHz_Ant1_NTNV



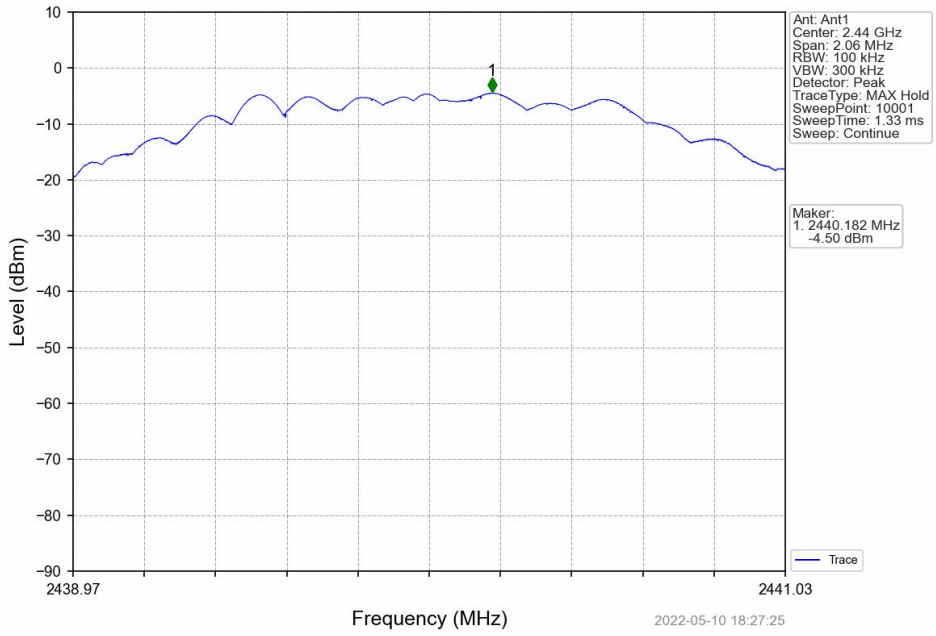
1M_HCH_2480MHz_Ant1_NTNV



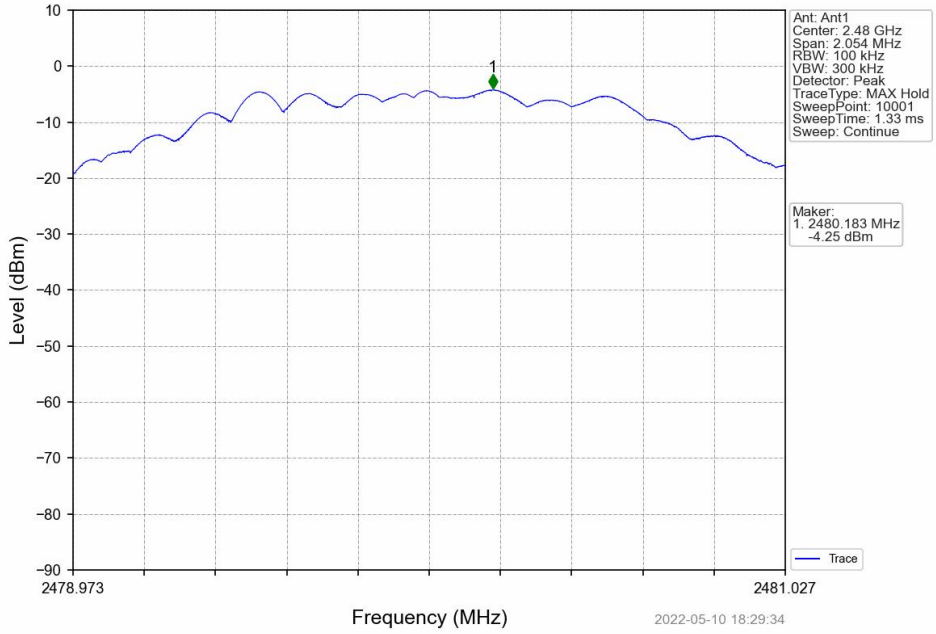

2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV




2M_HCH_2480MHz_Ant1_NTNV



## 5.2 CSE

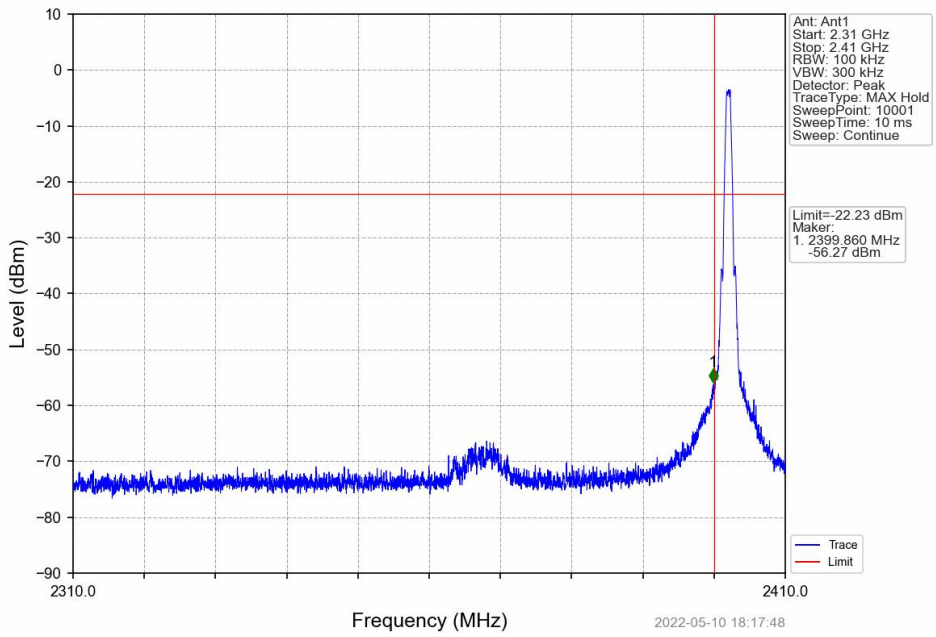
### 5.2.1 Test Result

| Mode | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|---|---|---|---|---|---|---|
| 1M | SISO | 2402 | 1 | -2.23 | -22.23 | Pass |
| | | 2440 | 1 | -2.23 | -22.23 | Pass |
| | | 2480 | 1 | -2.23 | -22.23 | Pass |
| 2M | SISO | 2402 | 1 | -4.25 | -24.25 | Pass |
| | | 2440 | 1 | -4.25 | -24.25 | Pass |
| | | 2480 | 1 | -4.25 | -24.25 | Pass |

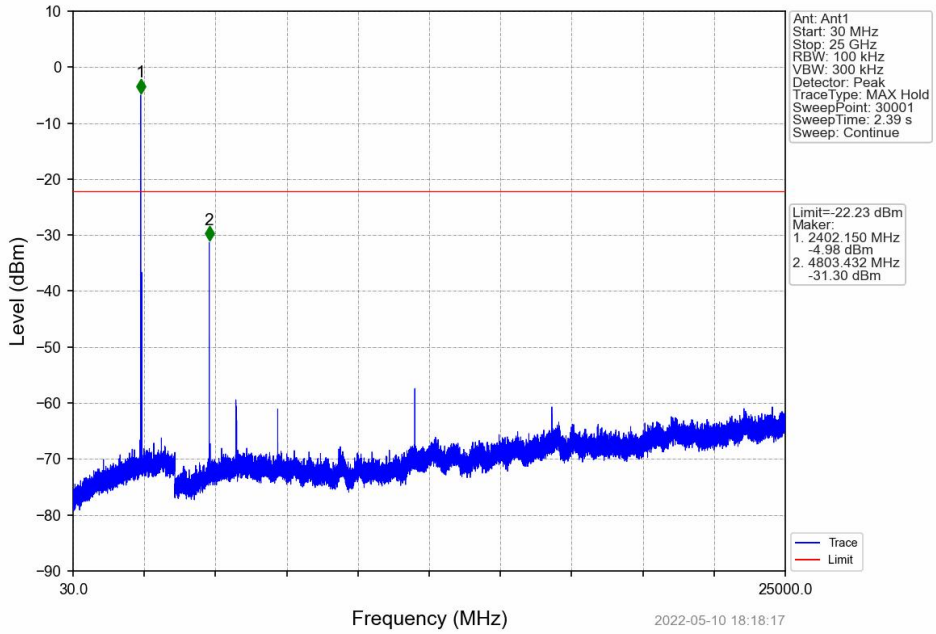
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.
Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.

## 5.2.2 Test Graph

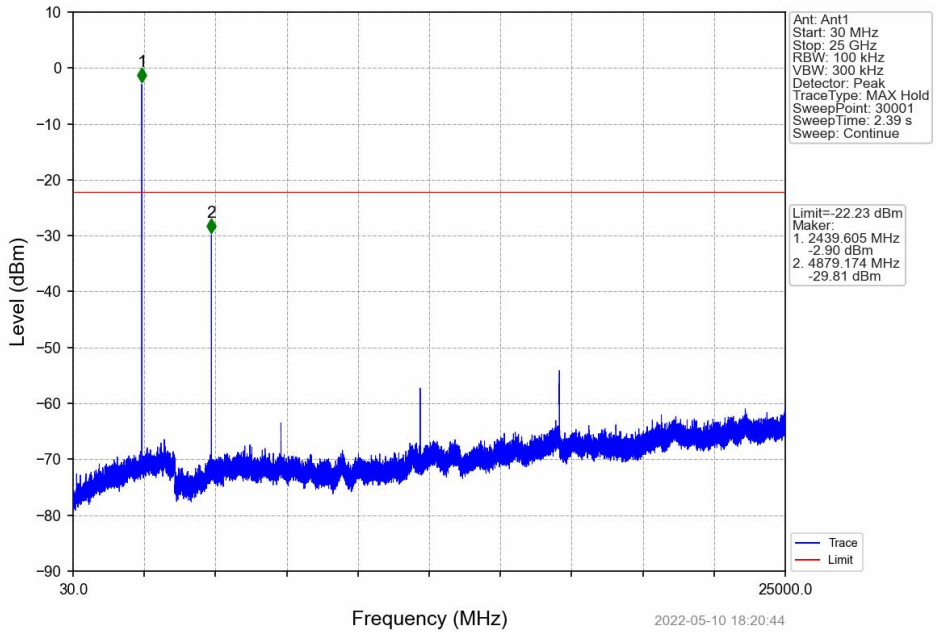
1M_LCH_2402MHz_Ant1_NTNV



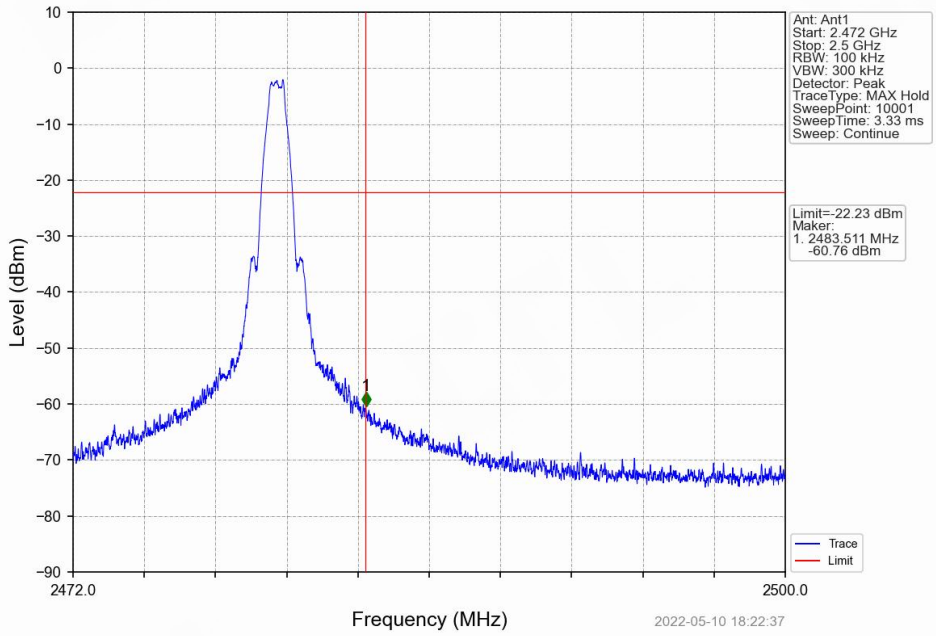

1M_LCH_2402MHz_Ant1_NTNV



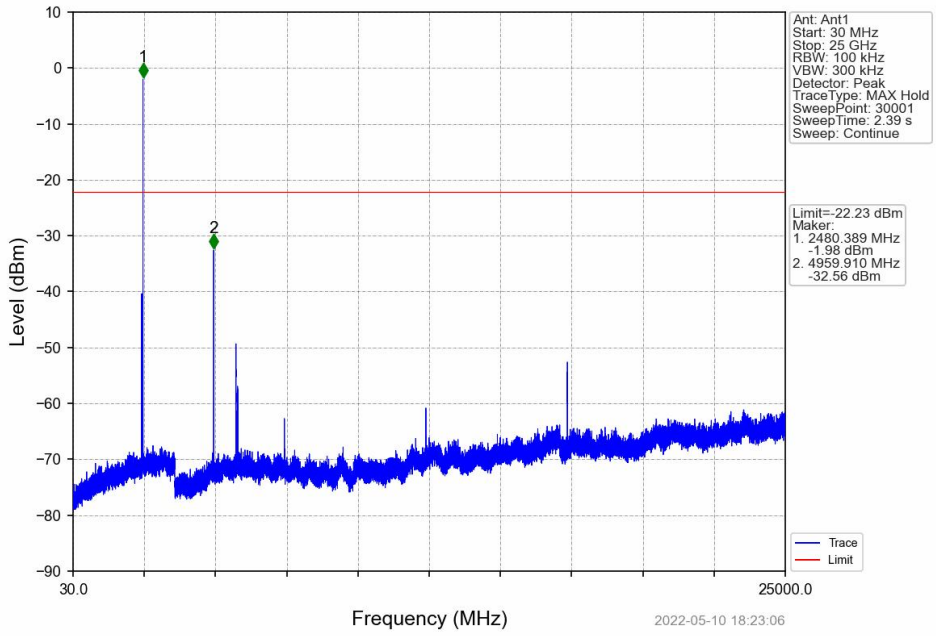
1M_MCH_2440MHz_Ant1_NTNV



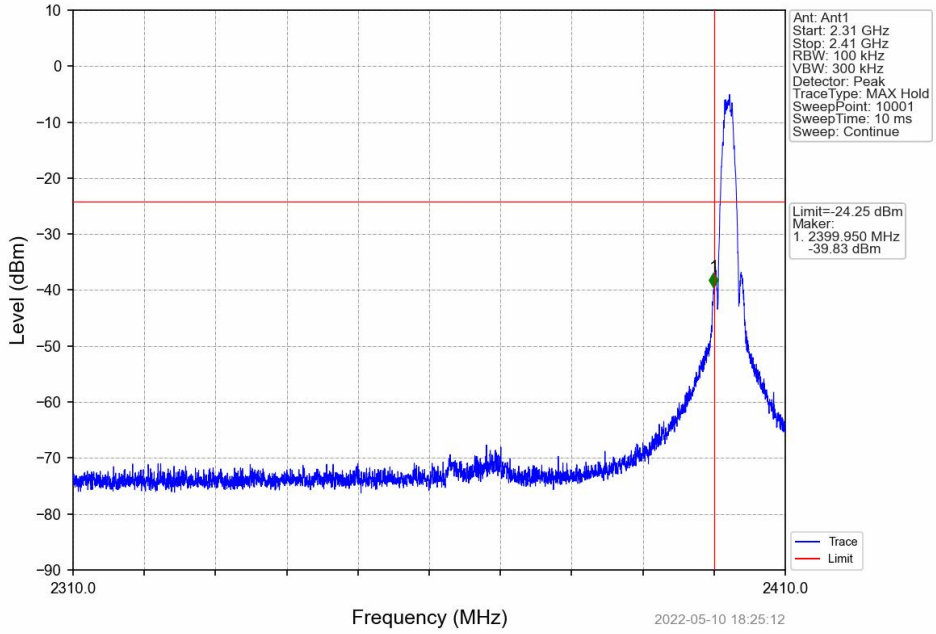

1M_HCH_2480MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV




2M_LCH_2402MHz_Ant1_NTNV



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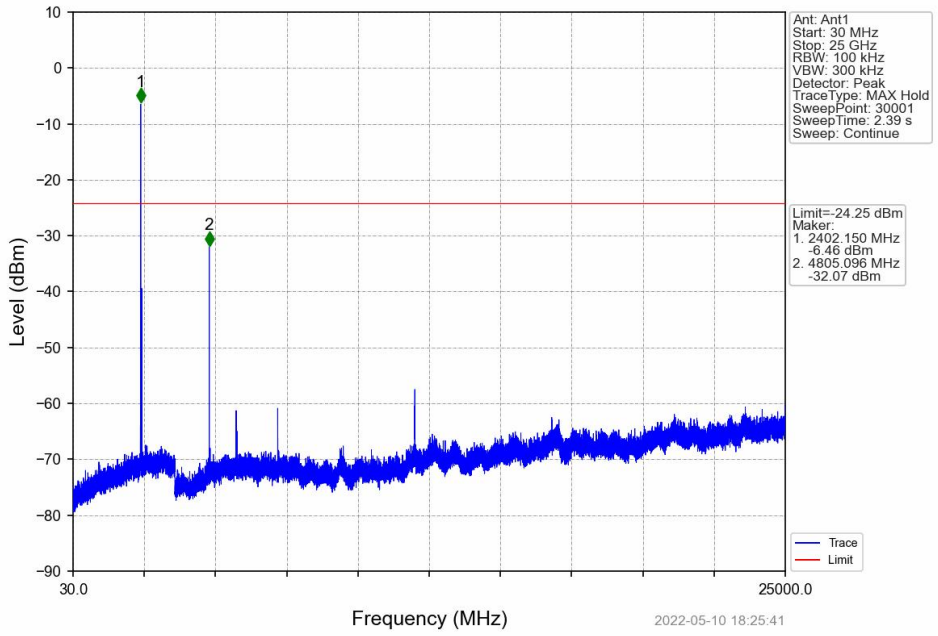


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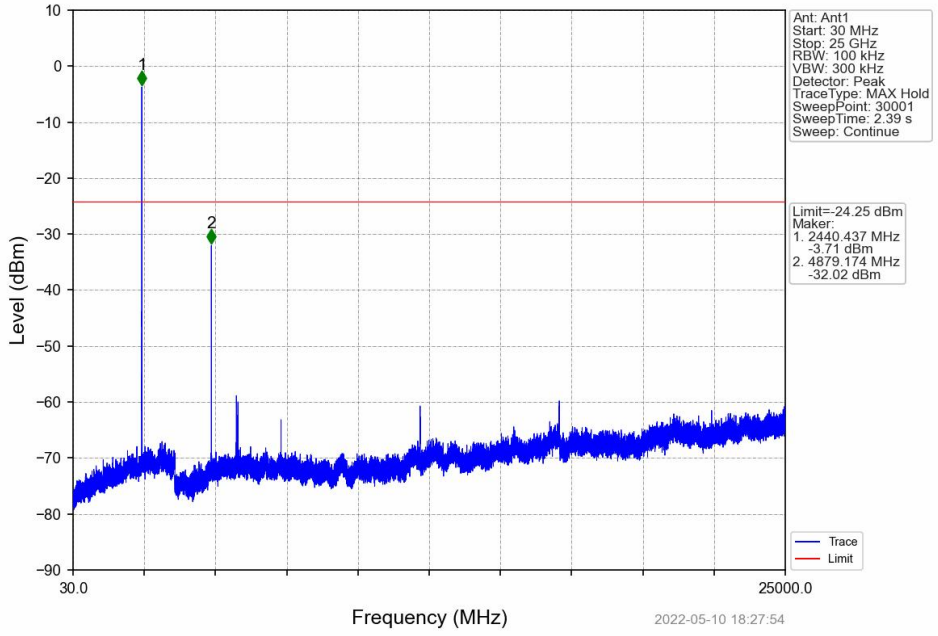

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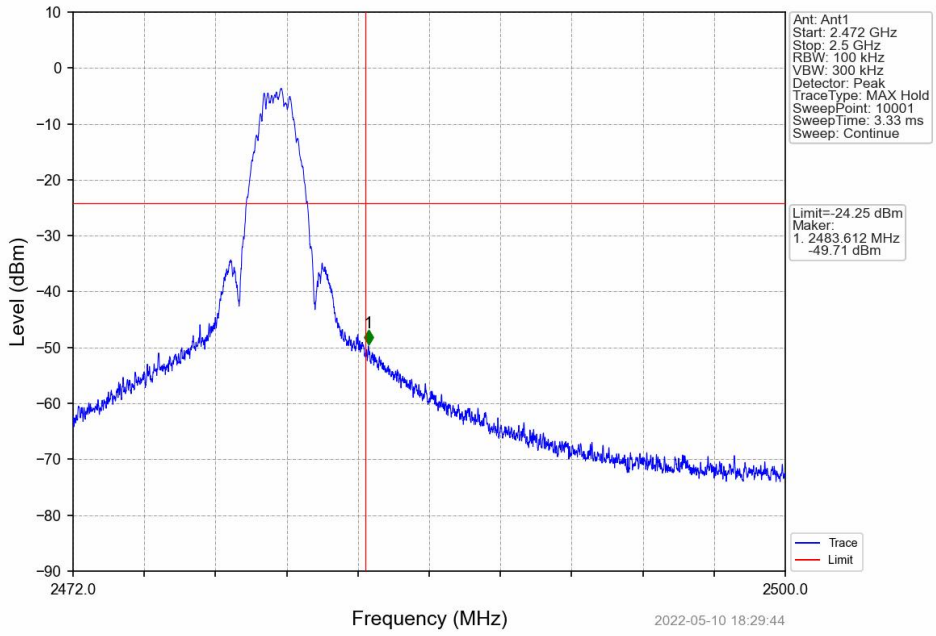

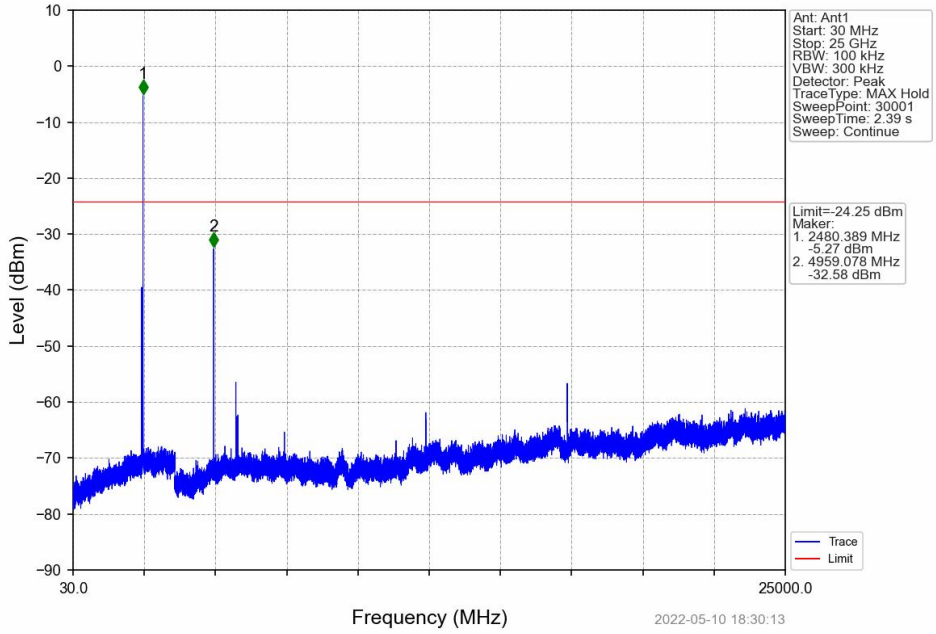
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