

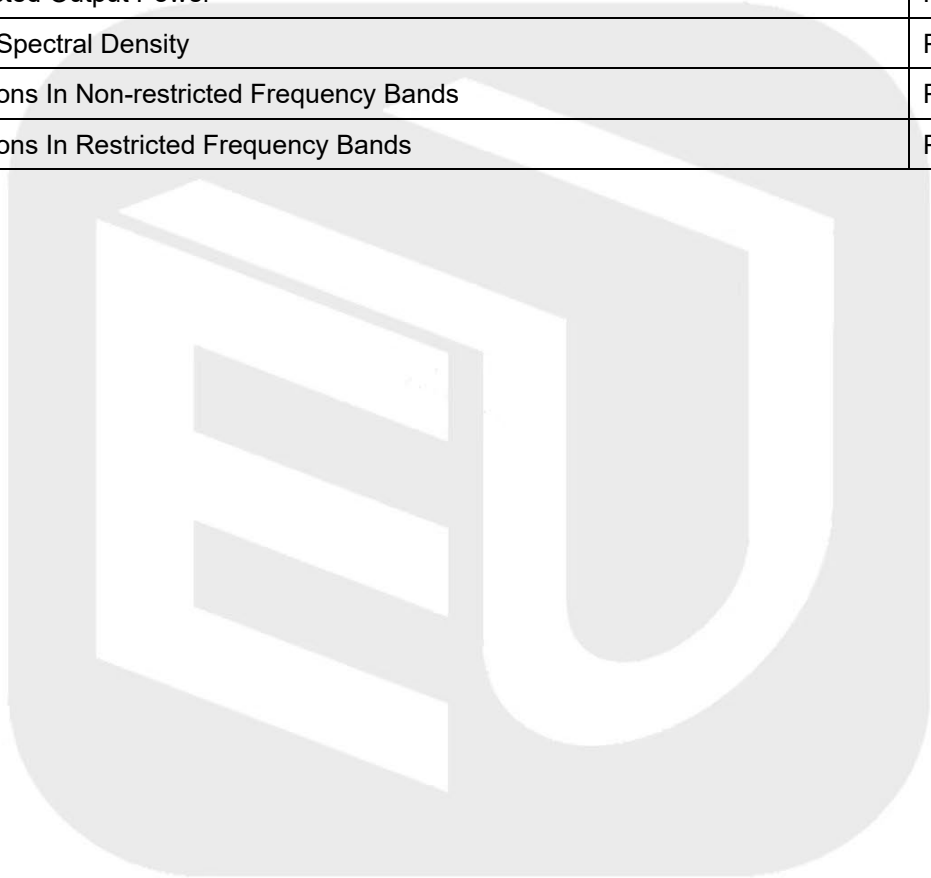
# ANNEX D TEST DATA

## For

|                |                                 |
|----------------|---------------------------------|
| Project No.:   | 8135EU012710W                   |
| Client:        | Shenzhen Qianyan Technology LTD |
| Product Name:  | Govee Strip Light S             |
| Model No.:     | H612E                           |
| FCC ID:        | 2A7VD-H612E                     |
| Technology:    | Bluetooth BLE                   |
| Test Engineer: | <i>Mikoy zhu</i>                |
| Test Date:     | 2024-01-29                      |

## Test Summary

| Item   | Result |
|--|--------|
| Duty Cycle   | Pass   |
| Bandwidth  | Pass   |
| Maximum Conducted Output Power                       | Pass   |
| Maximum Power Spectral Density                       | Pass   |
| Unwanted Emissions In Non-restricted Frequency Bands | Pass   |
| Unwanted Emissions In Restricted Frequency Bands     | Pass   |



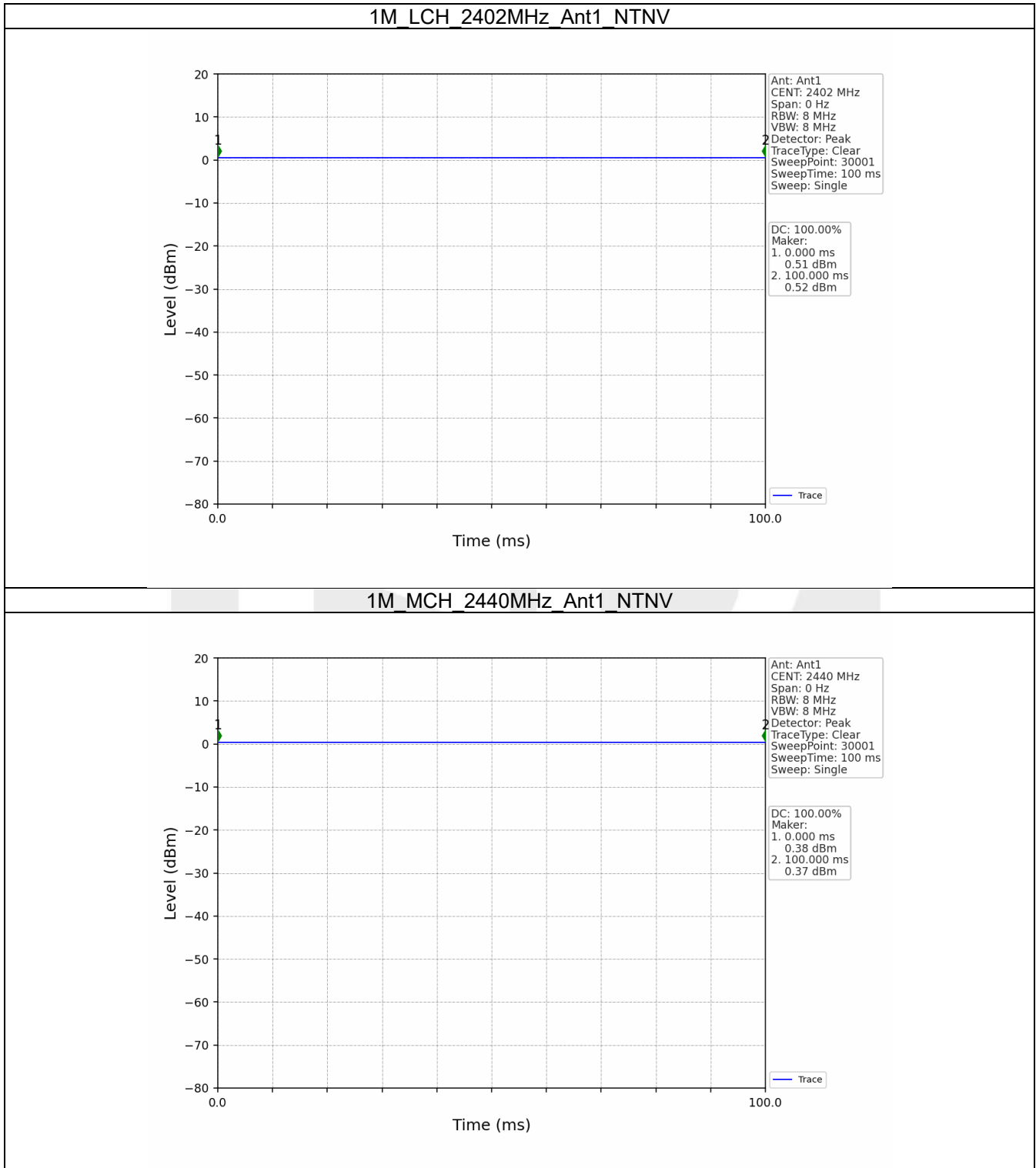
## 1. Duty Cycle

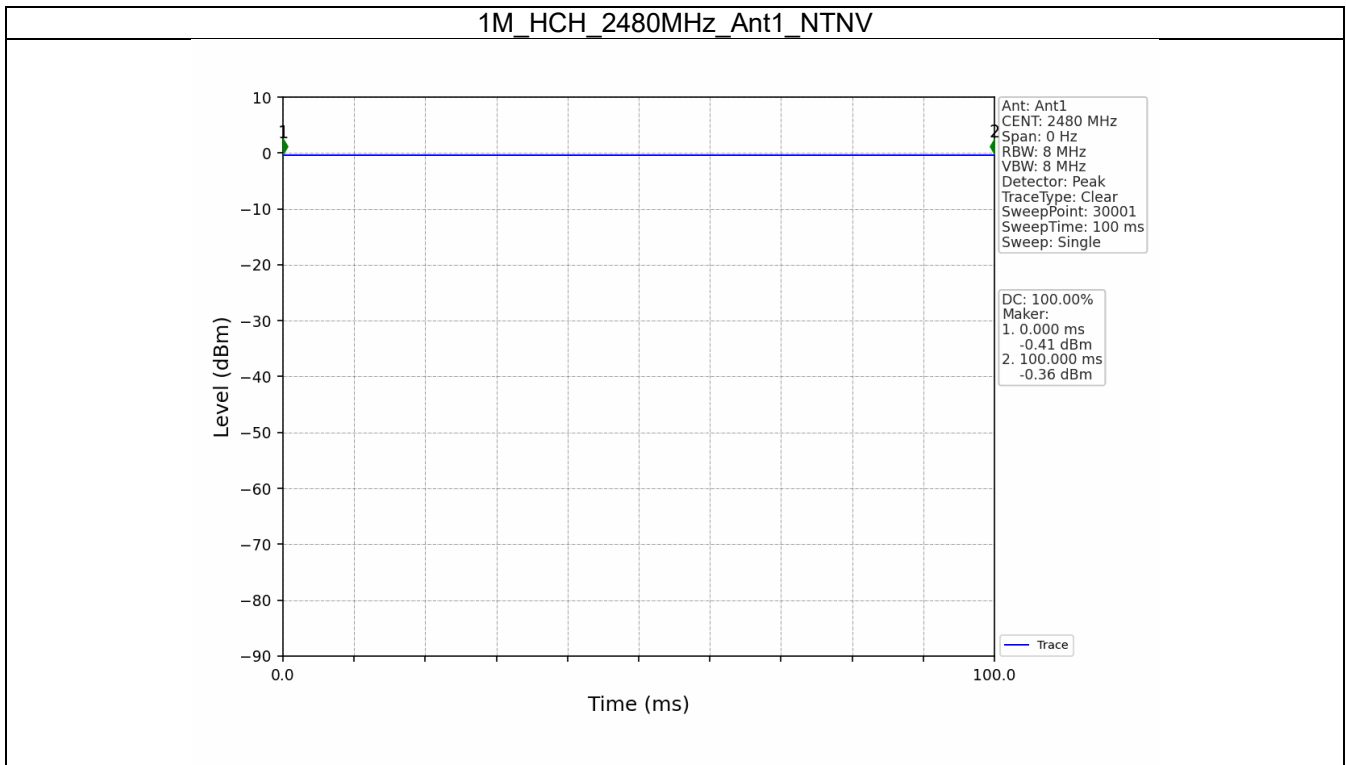
### 1.1 Ant1

#### 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                  |

1.1.2 Test Graph





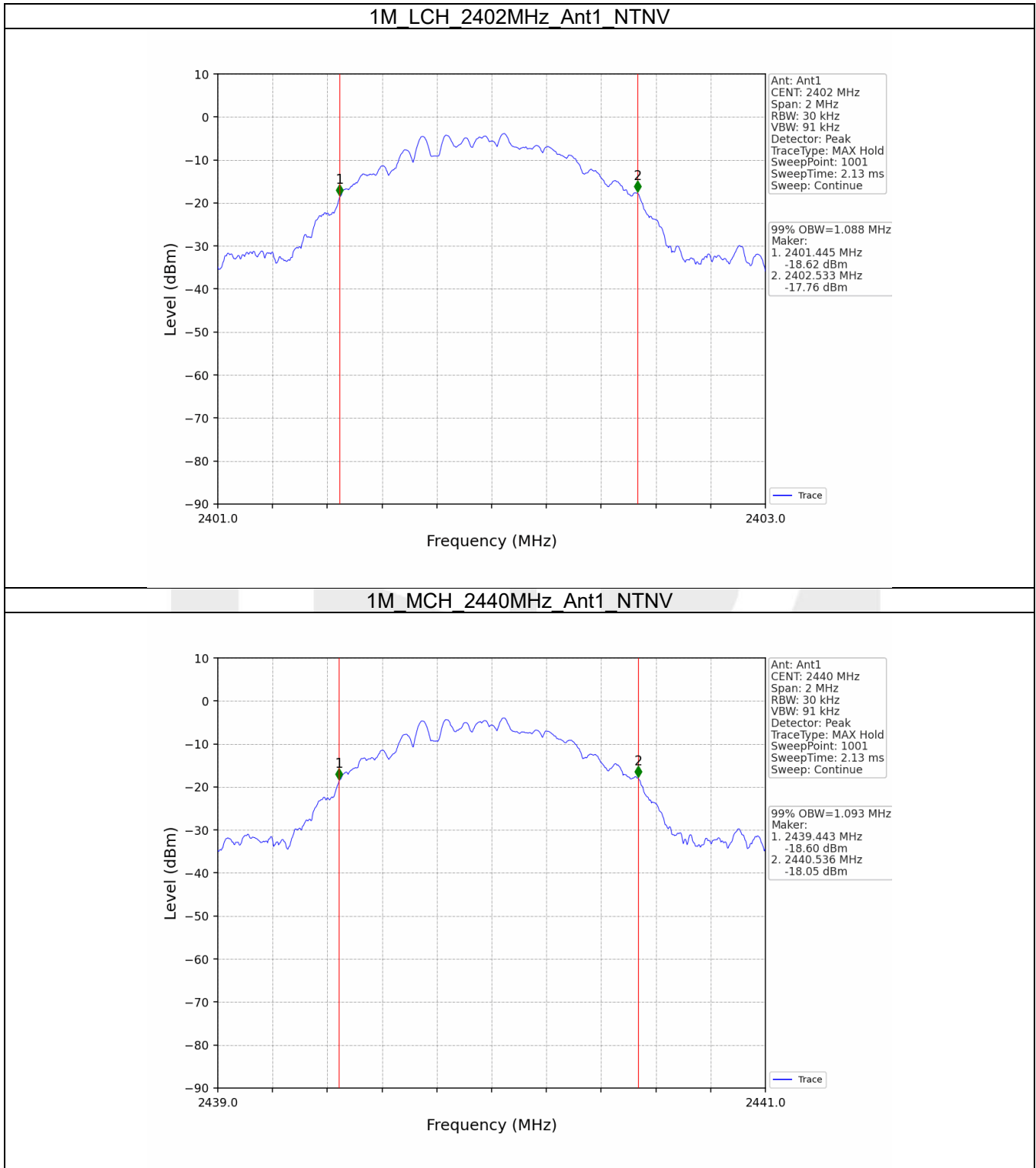
## 2. Bandwidth

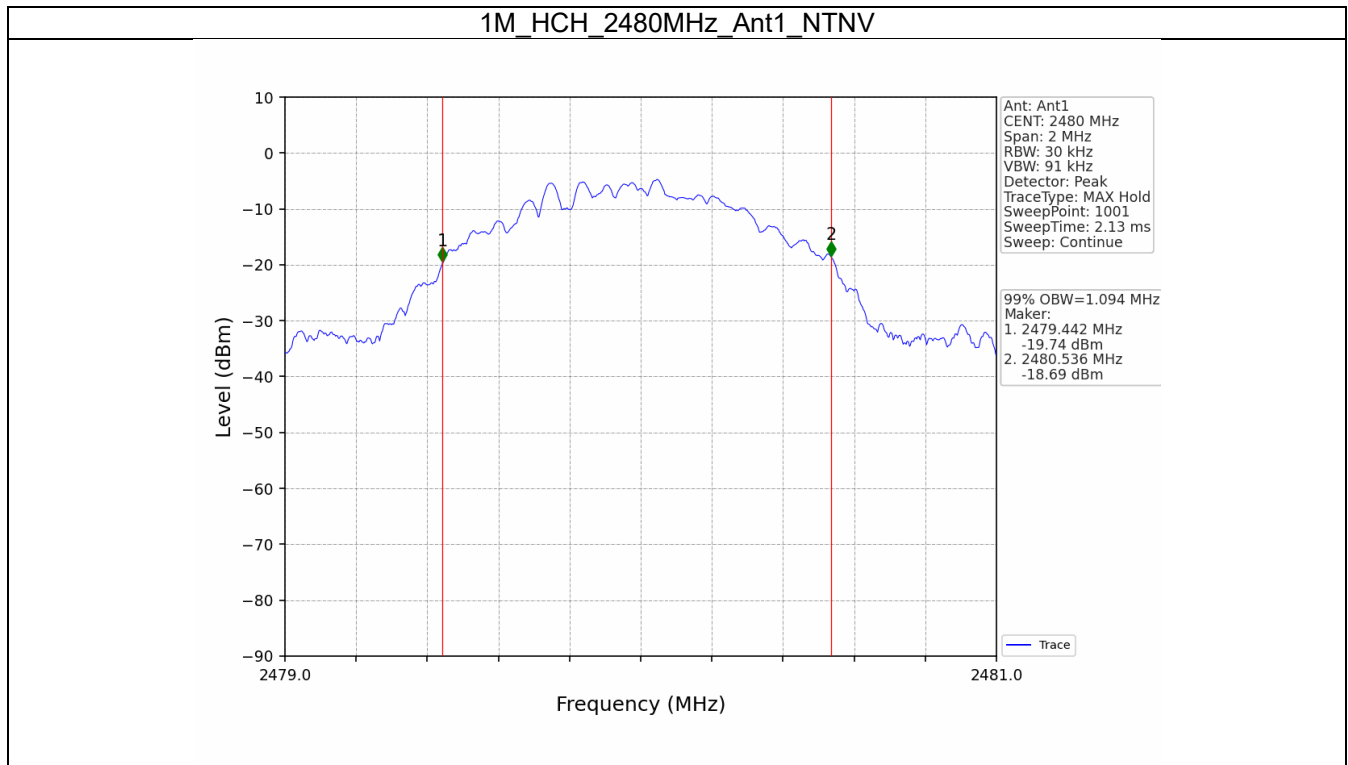
### 2.1 OBW

#### 2.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | ANT | 99% Occupied Bandwidth (MHz) | Verdict |
|------|---------|-----------------|-----|------------------------------|---------|
|      |         |                 |     | Result                       |         |
| 1M   | SISO    | 2402            | 1   | 1.088                        | Pass    |
|      |         | 2440            | 1   | 1.093                        | Pass    |
|      |         | 2480            | 1   | 1.094                        | Pass    |

2.1.2 Test Graph







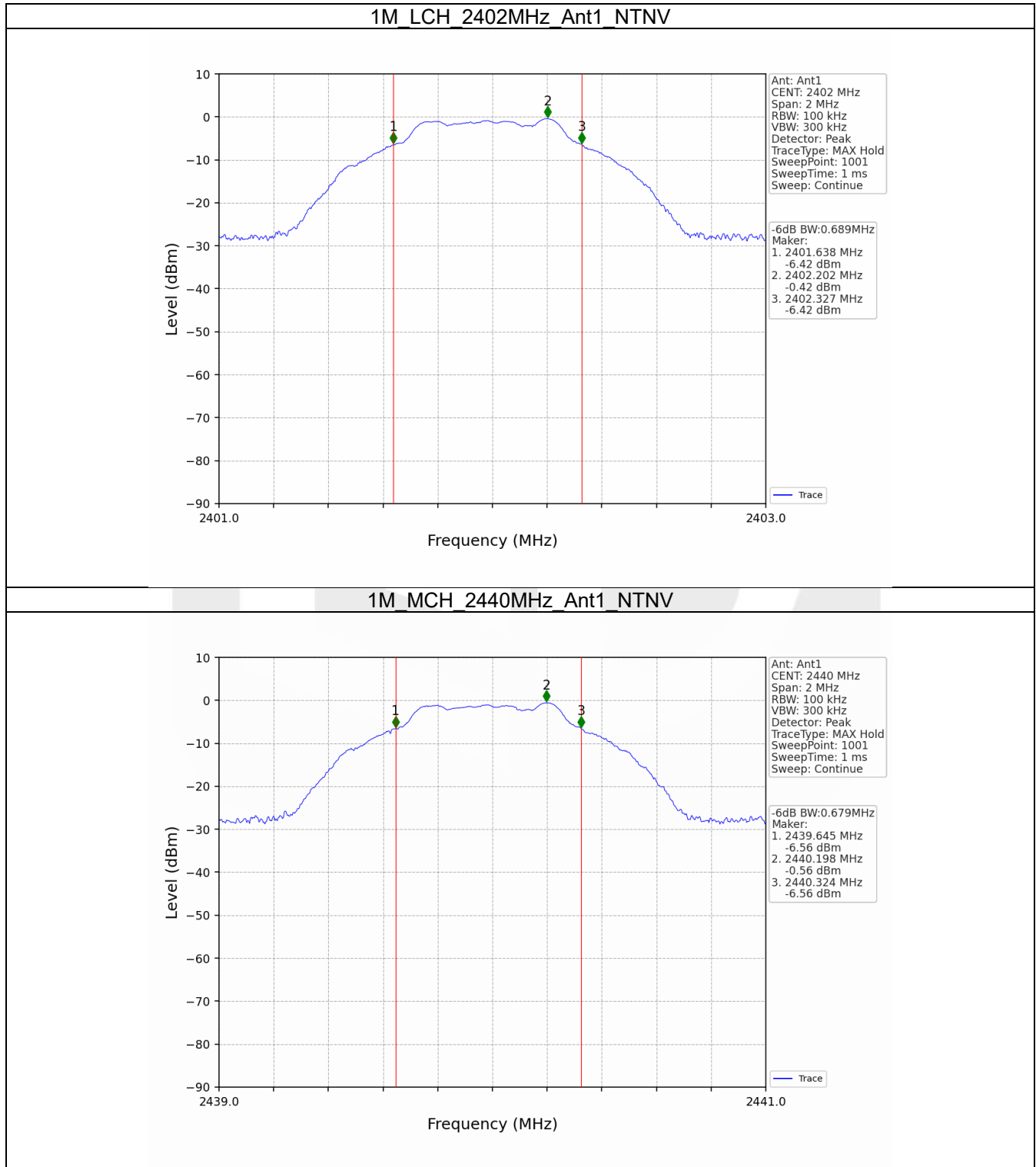
## 2.2 6dB BW

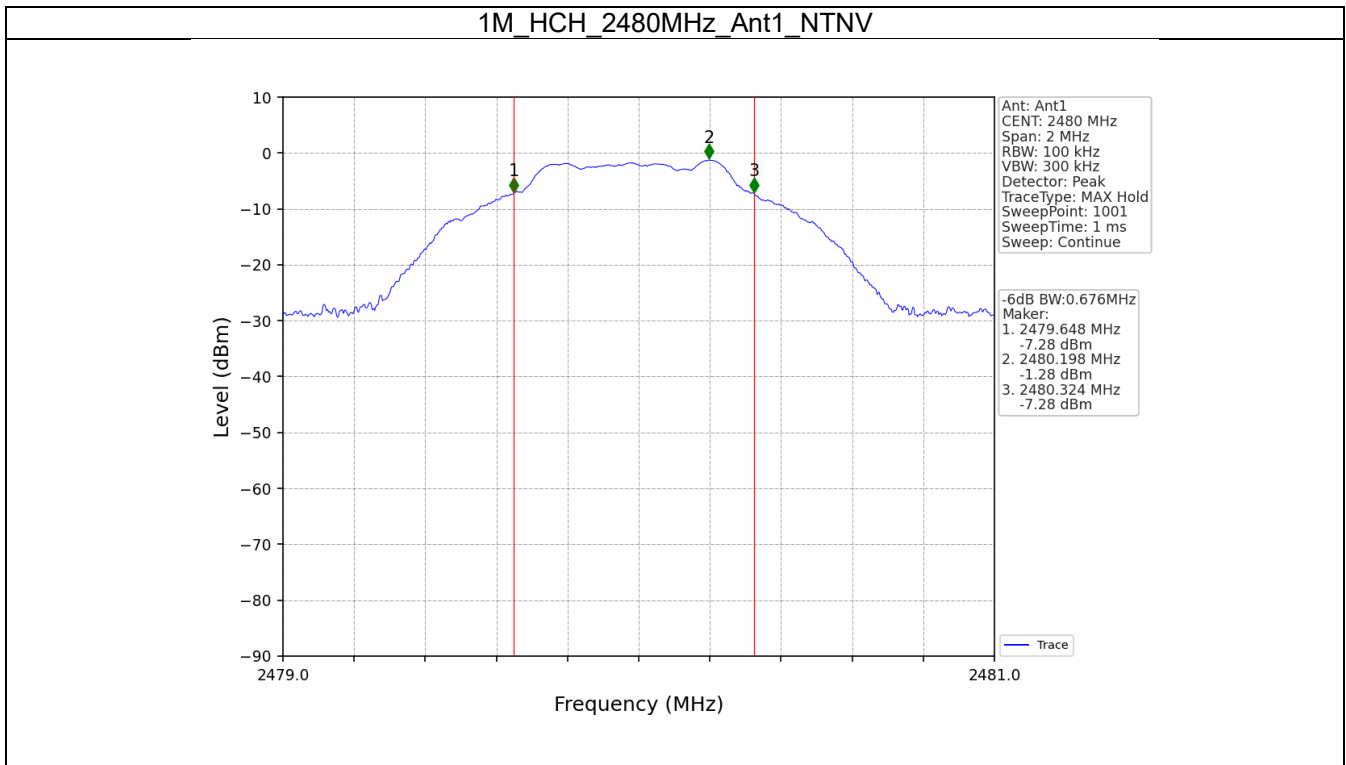
### 2.2.1 Test Result

| Mode | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) |            | Verdict |
|------|---------|-----------------|-----|---------------------|------------|---------|
|      |         |                 |     | Result              | Limit      |         |
| 1M   | SISO    | 2402            | 1   | 0.689               | $\geq 0.5$ | Pass    |
|      |         | 2440            | 1   | 0.679               | $\geq 0.5$ | Pass    |
|      |         | 2480            | 1   | 0.676               | $\geq 0.5$ | Pass    |



2.2.2 Test Graph





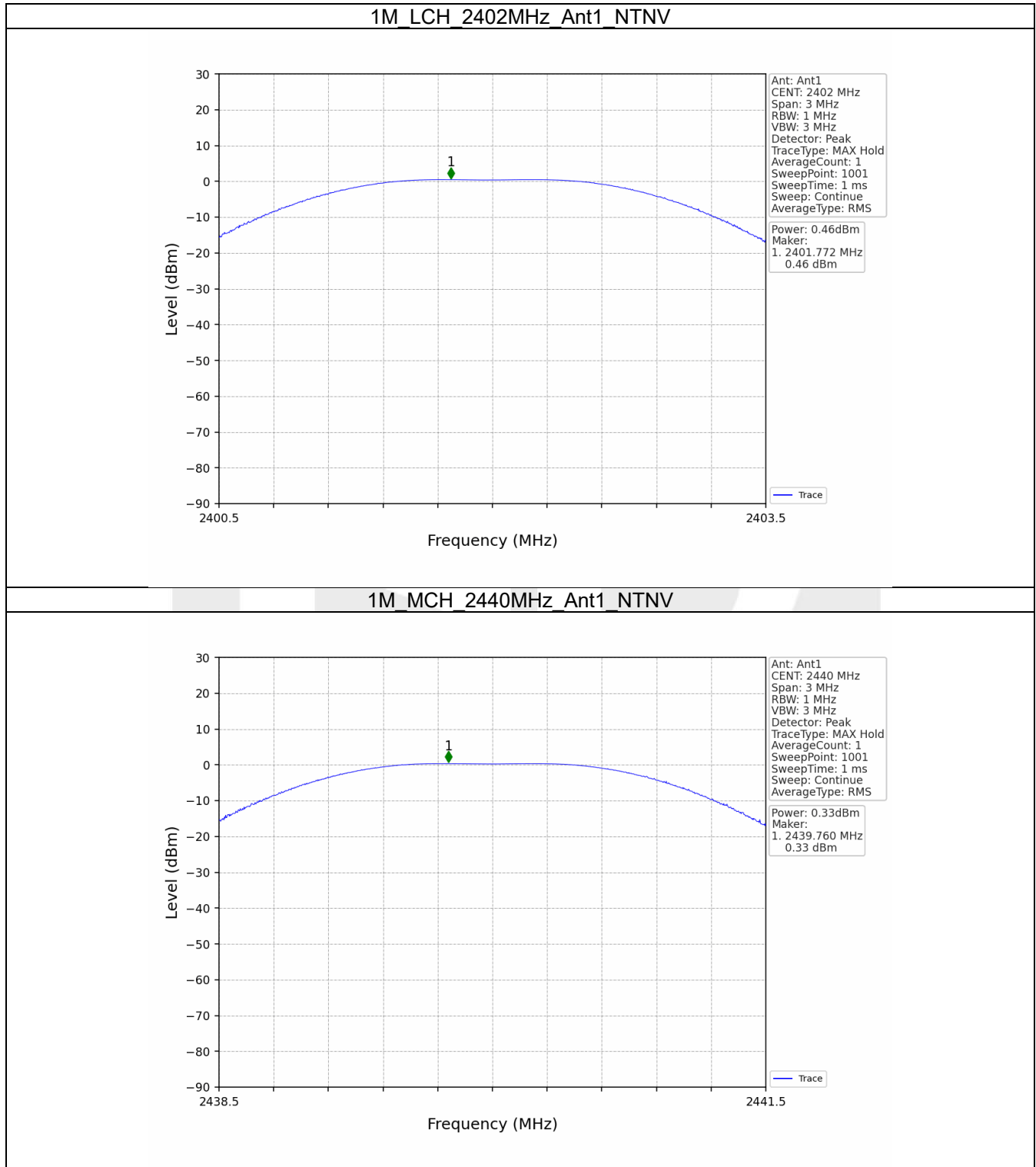
### 3. Maximum Conducted Output Power

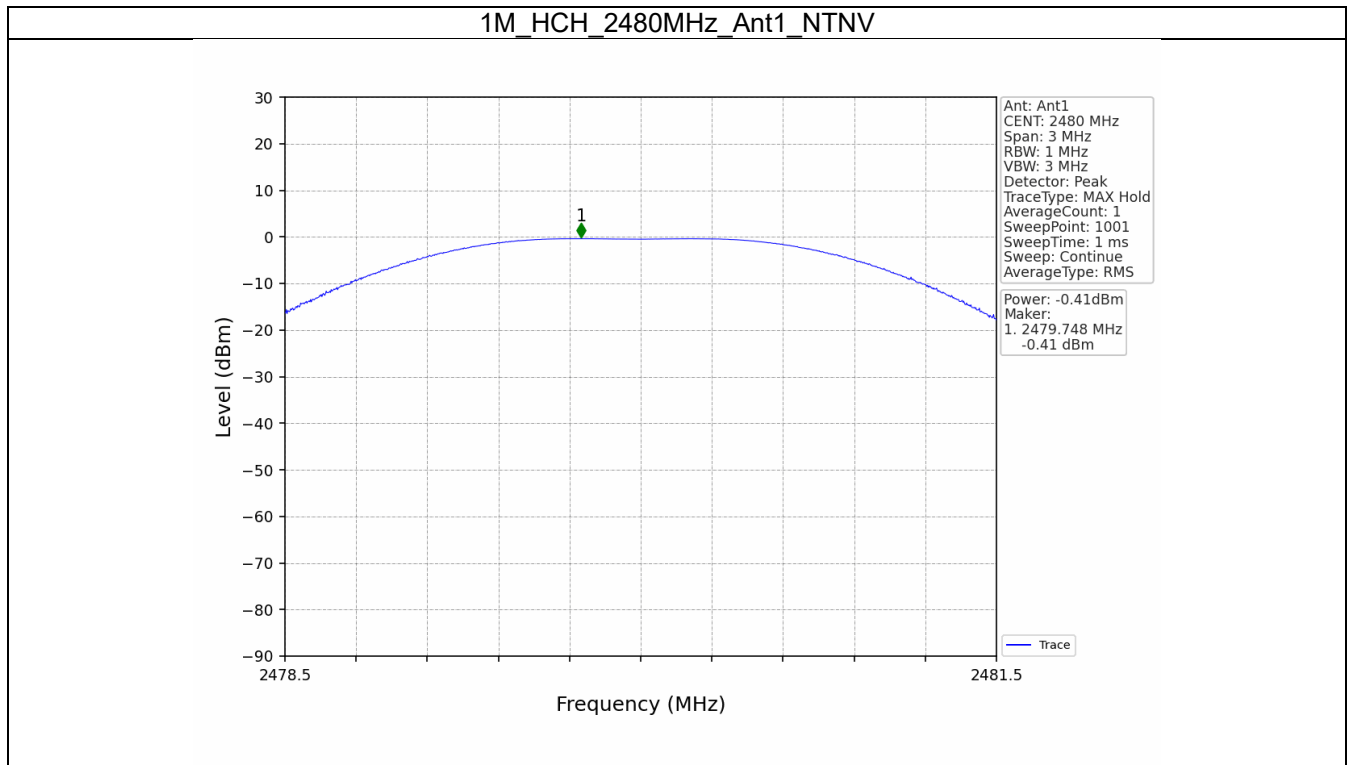
#### 3.1 Power

##### 3.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | Maximum Peak Conducted Output Power (dBm) |       | Verdict |
|------|---------|-----------------|---|-------|---------|
|      |         |                 | ANT1                                      | Limit |         |
| 1M   | SISO    | 2402            | 0.46                                      | <=30  | Pass    |
|      |         | 2440            | 0.33                                      | <=30  | Pass    |
|      |         | 2480            | -0.41                                     | <=30  | Pass    |

3.1.2 Test Graph





#### 4. Maximum Power Spectral Density

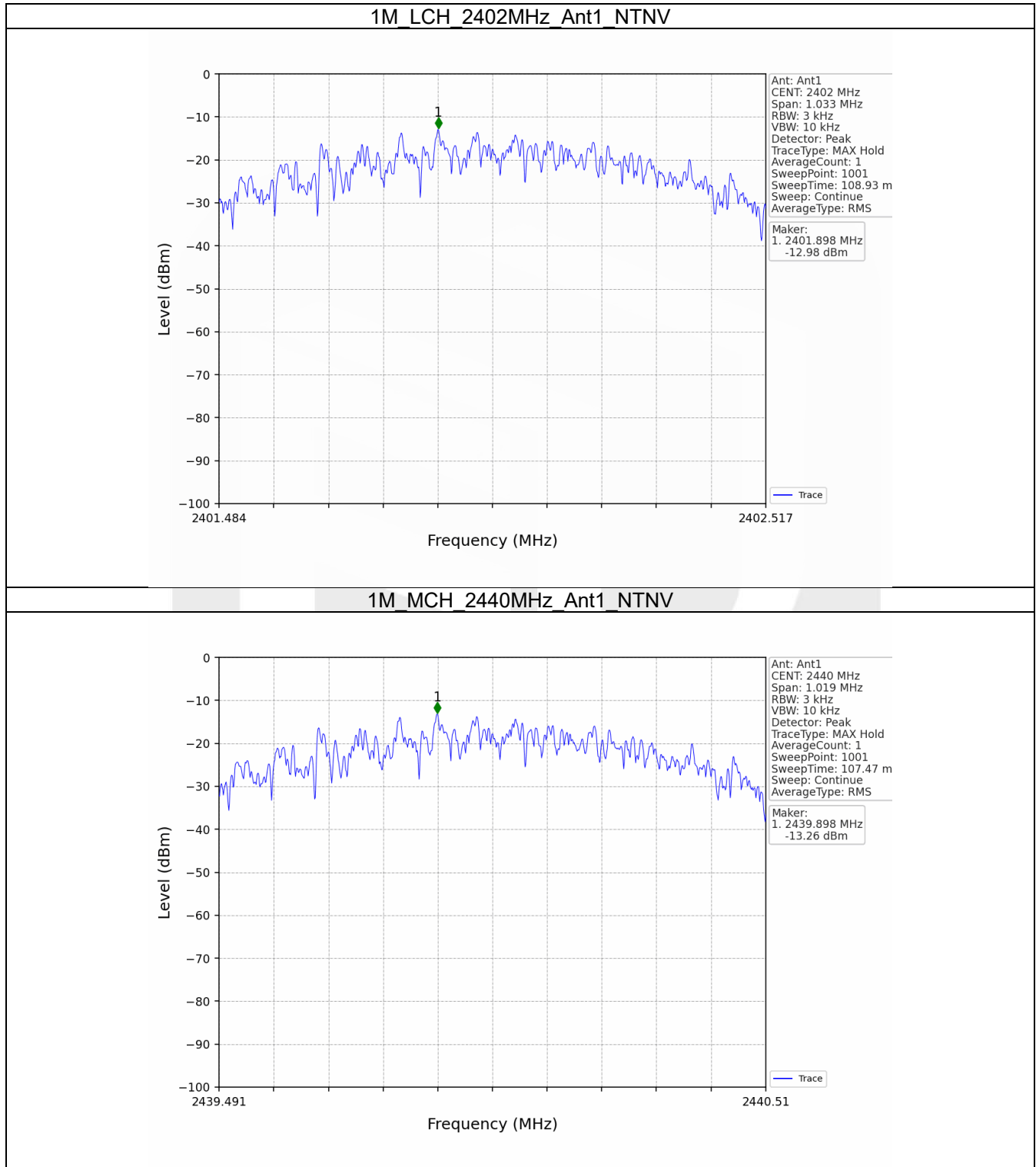
##### 4.1 PSD

##### 4.1.1 Test Result

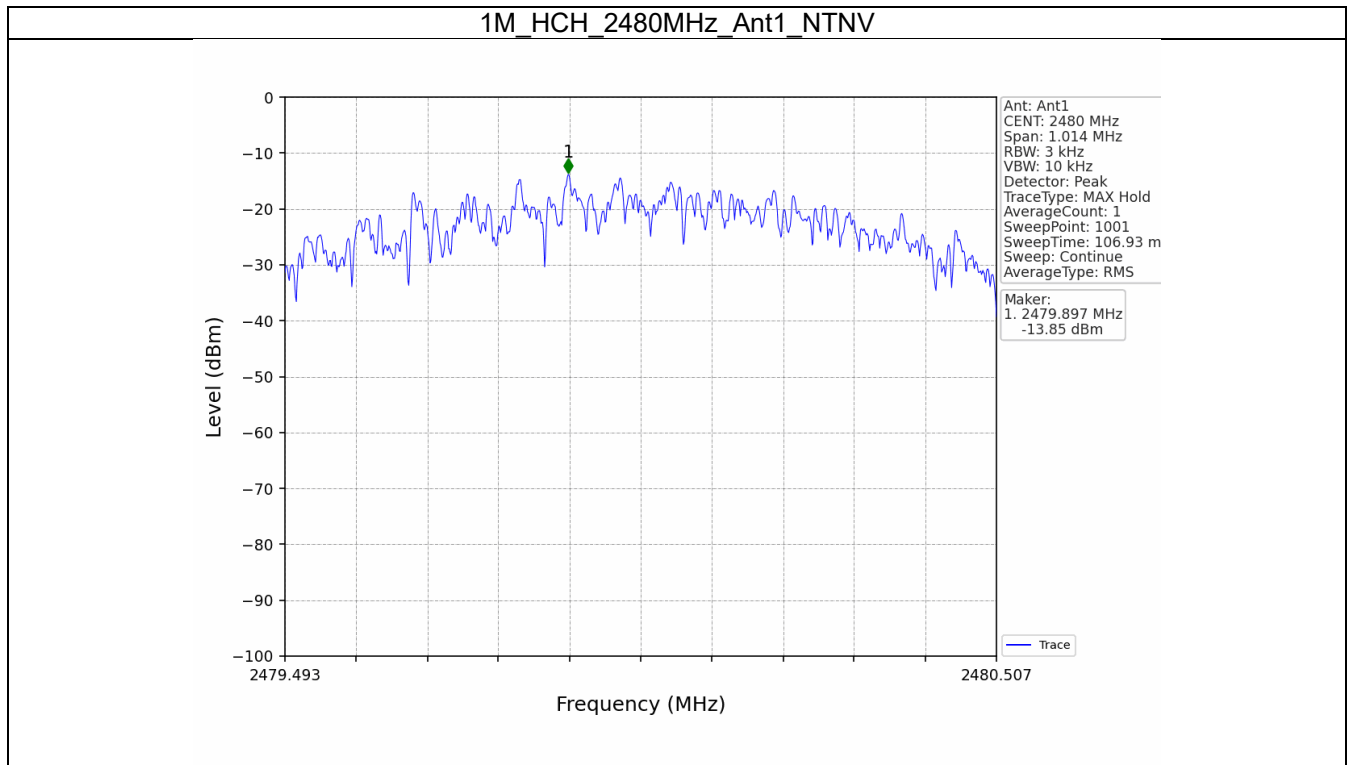
| Mode | TX Type | Frequency (MHz) | Maximum PSD (dBm/3kHz) |       | Verdict |
|------|---------|-----------------|------------------------|-------|---------|
|      |         |                 | ANT1                   | Limit |         |
| 1M   | SISO    | 2402            | -12.98                 | <=8   | Pass    |
|      |         | 2440            | -13.26                 | <=8   | Pass    |
|      |         | 2480            | -13.85                 | <=8   | Pass    |



### 4.1.2 Test Graph







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

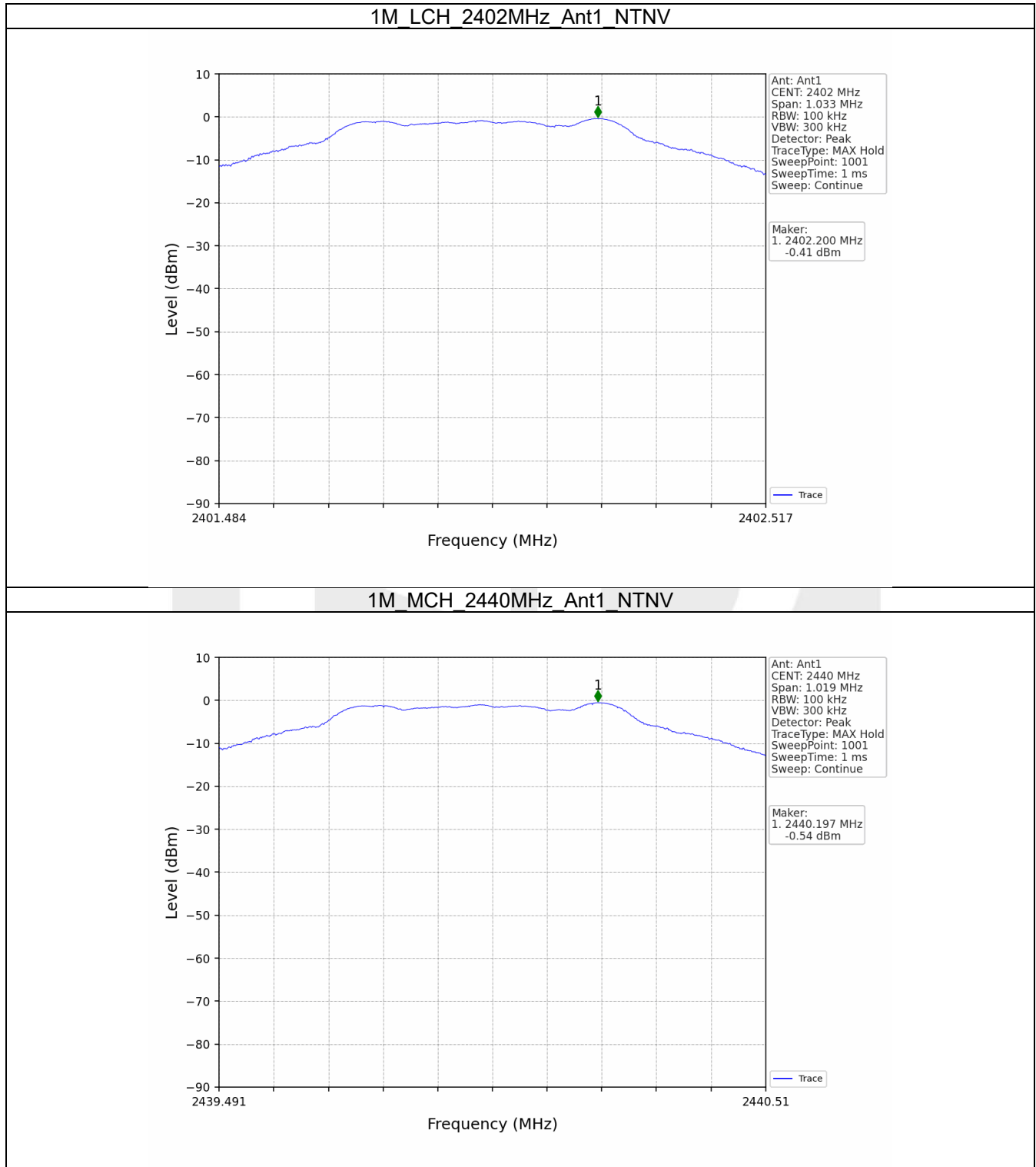
### 5.1 Ref

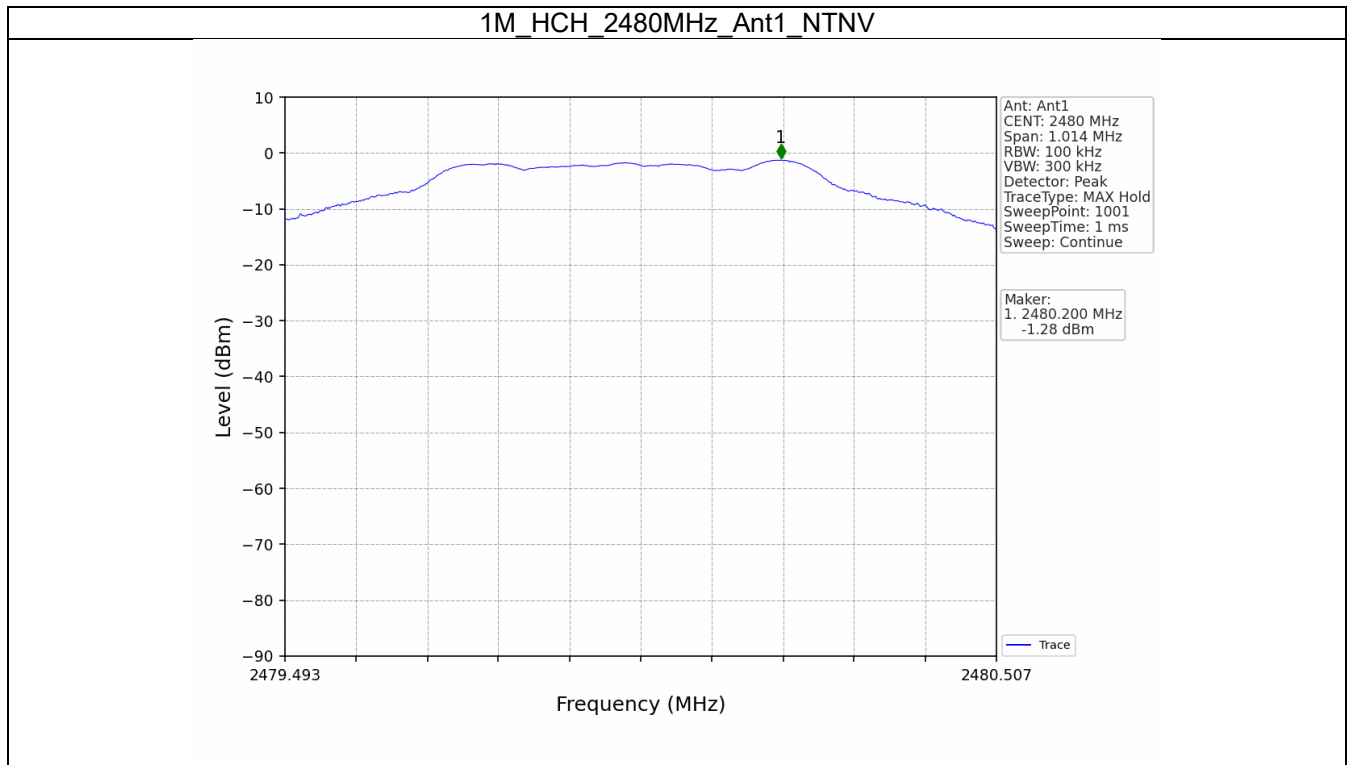
#### 5.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) |
|------|---------|-----------------|-----|--------------------------|
| 1M   | SISO    | 2402            | 1   | -0.41                    |
|      |         | 2440            | 1   | -0.54                    |
|      |         | 2480            | 1   | -1.28                    |

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.

5.1.2 Test Graph



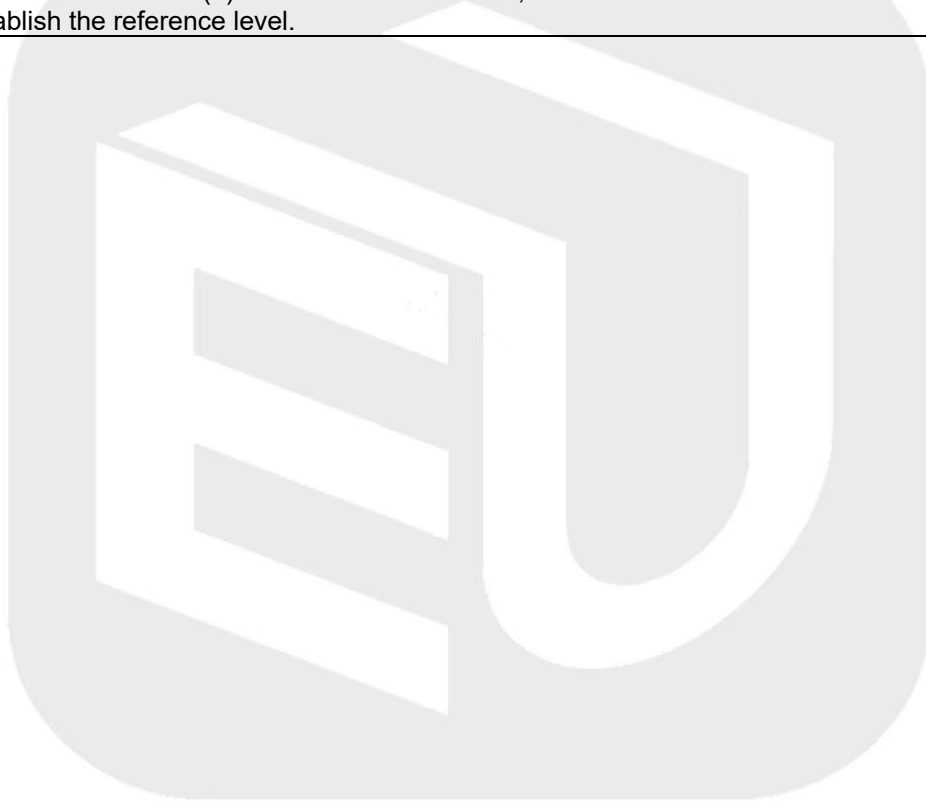


## 5.2 CSE

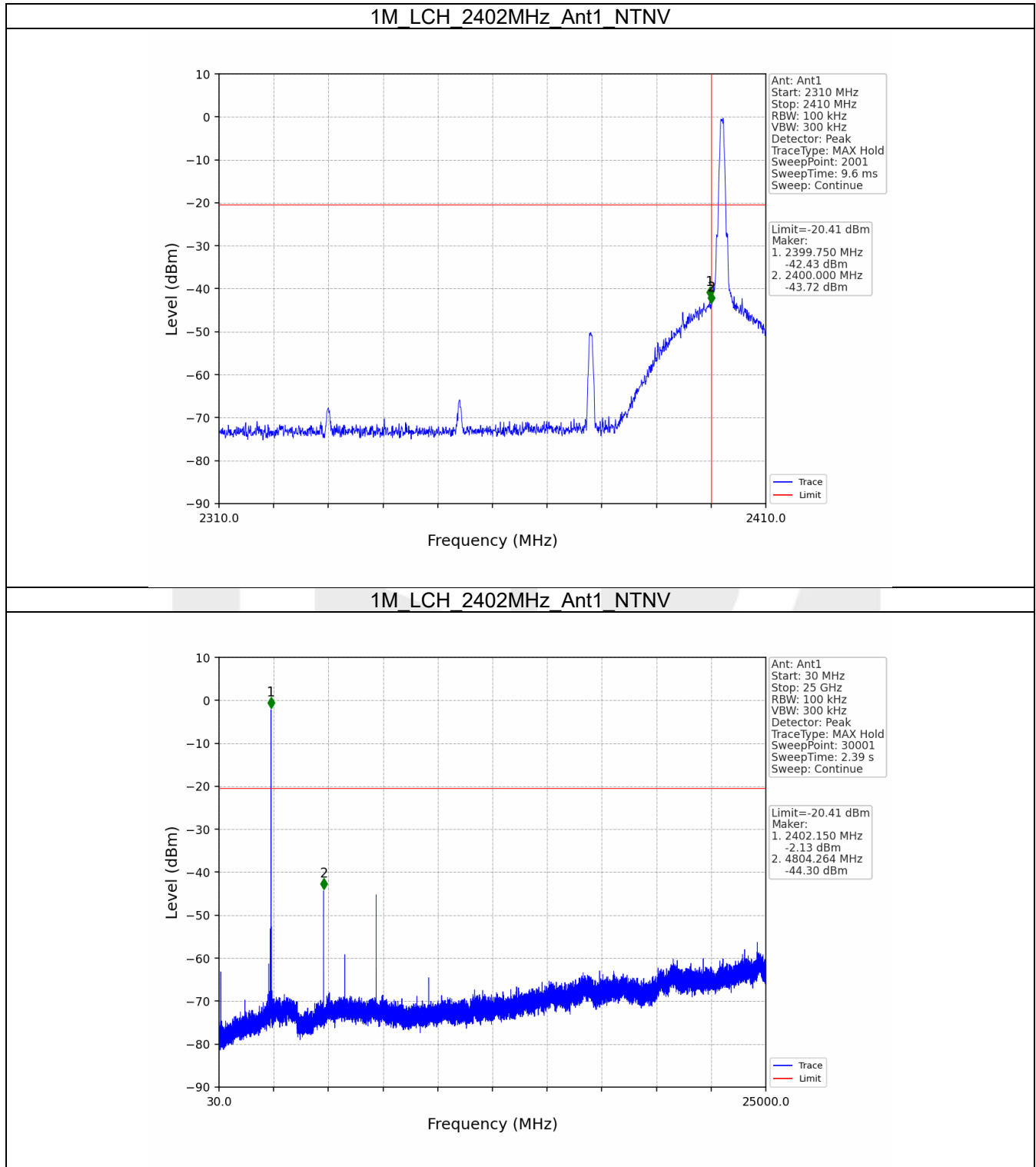
### 5.2.1 Test Result

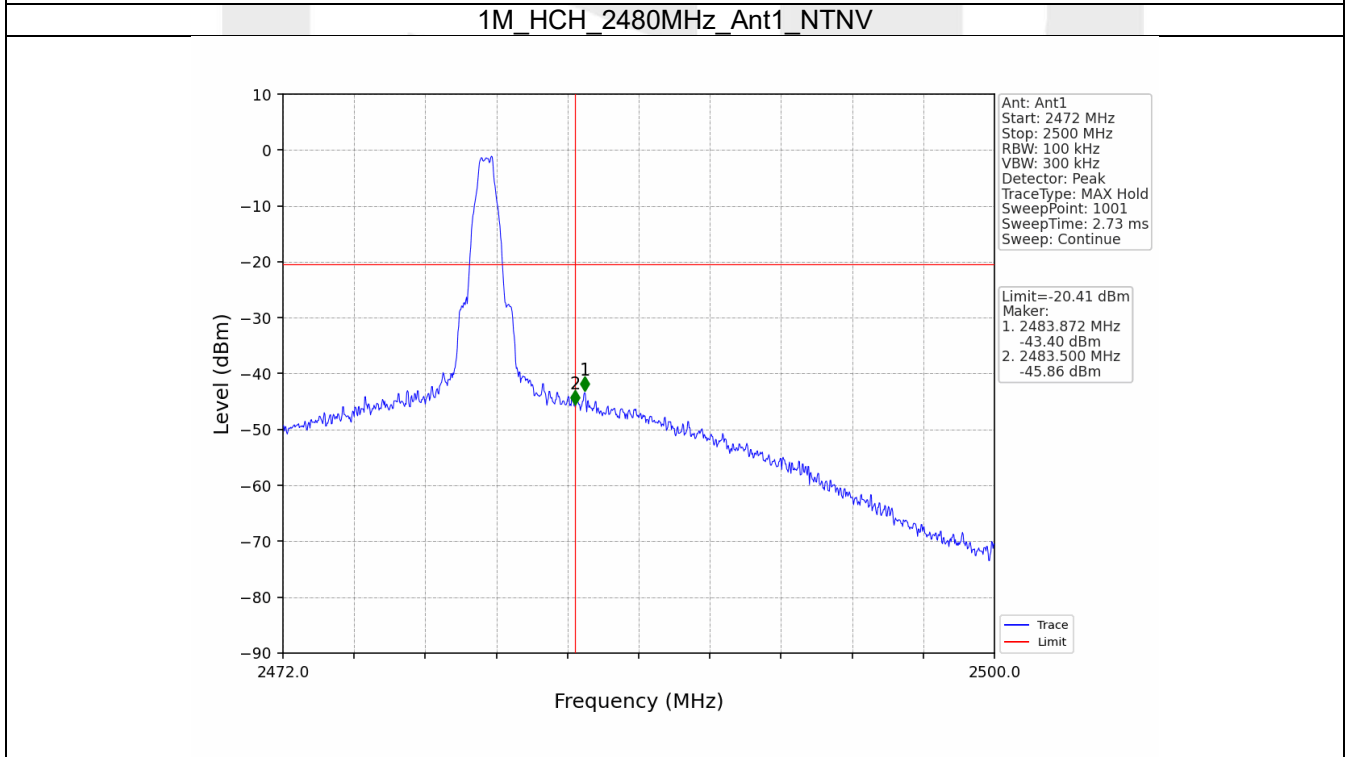
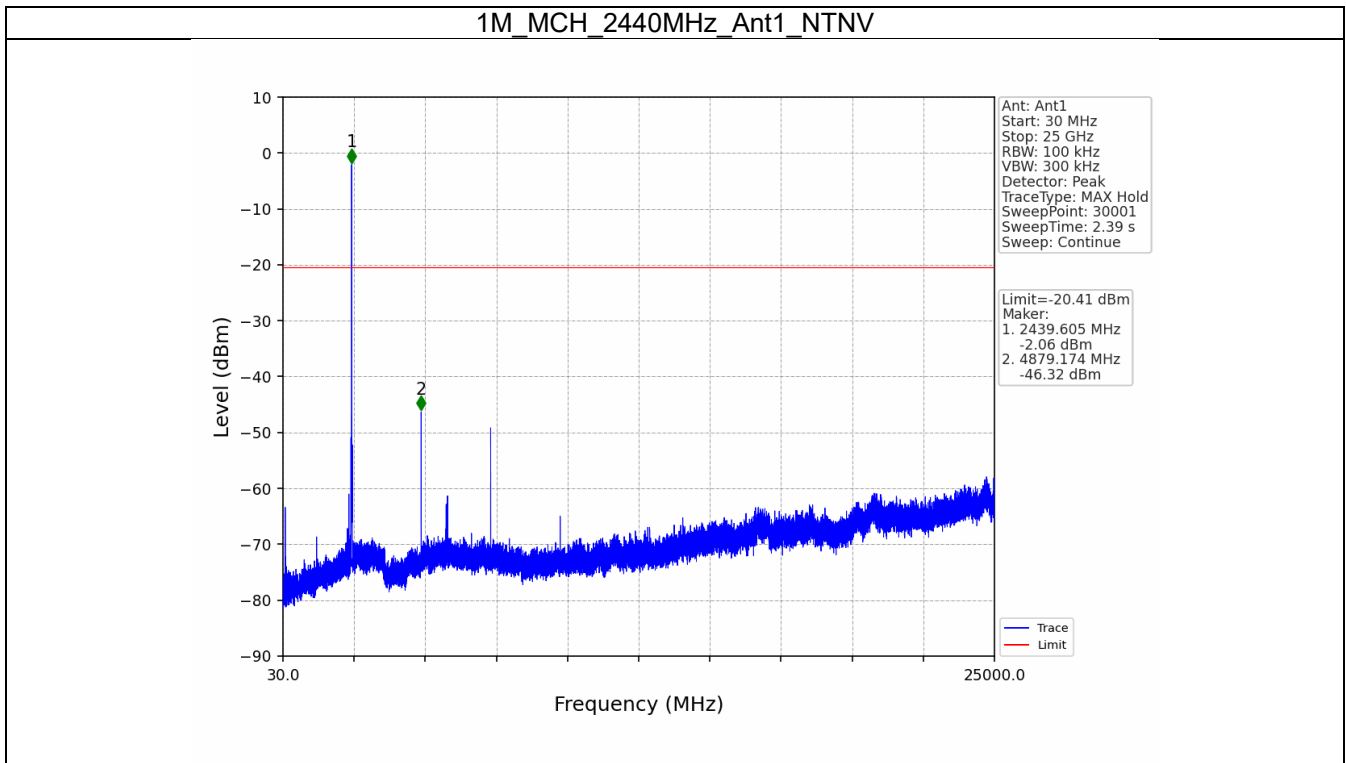
| Mode | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|------|---------|-----------------|-----|--------------------------|-------------|---------|
| 1M   | SISO    | 2402            | 1   | -0.41                    | -20.41      | Pass    |
|      |         | 2440            | 1   | -0.41                    | -20.41      | Pass    |
|      |         | 2480            | 1   | -0.41                    | -20.41      | Pass    |

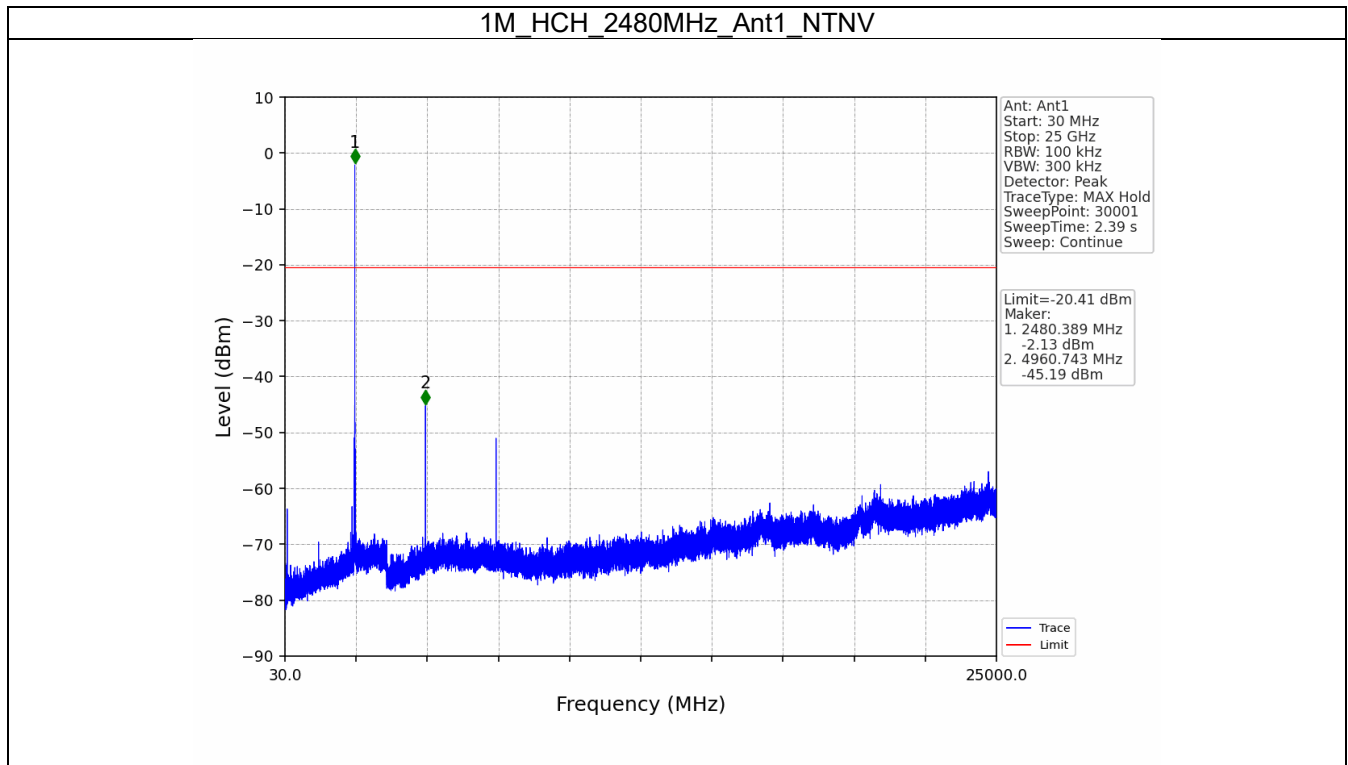
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.



5.2.2 Test Graph







----- End of Report -----