

## ANNEX D TEST DATA

For

|                |                                        |
|----------------|----------------------------------------|
| Project No.:   | 8228EU010806W                          |
| Client:        | Shenzhen Changtai Electronics Co., Ltd |
| Product Name:  | Smart Watch                            |
| Model No.:     | V19                                    |
| FCC ID:        | 2AURH-V19                              |
| Technology:    | Bluetooth BLE                          |
| Test Engineer: | <i>Mikoy zhu</i>                       |
| Test Date:     | 2024-04-09                             |

## 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   |

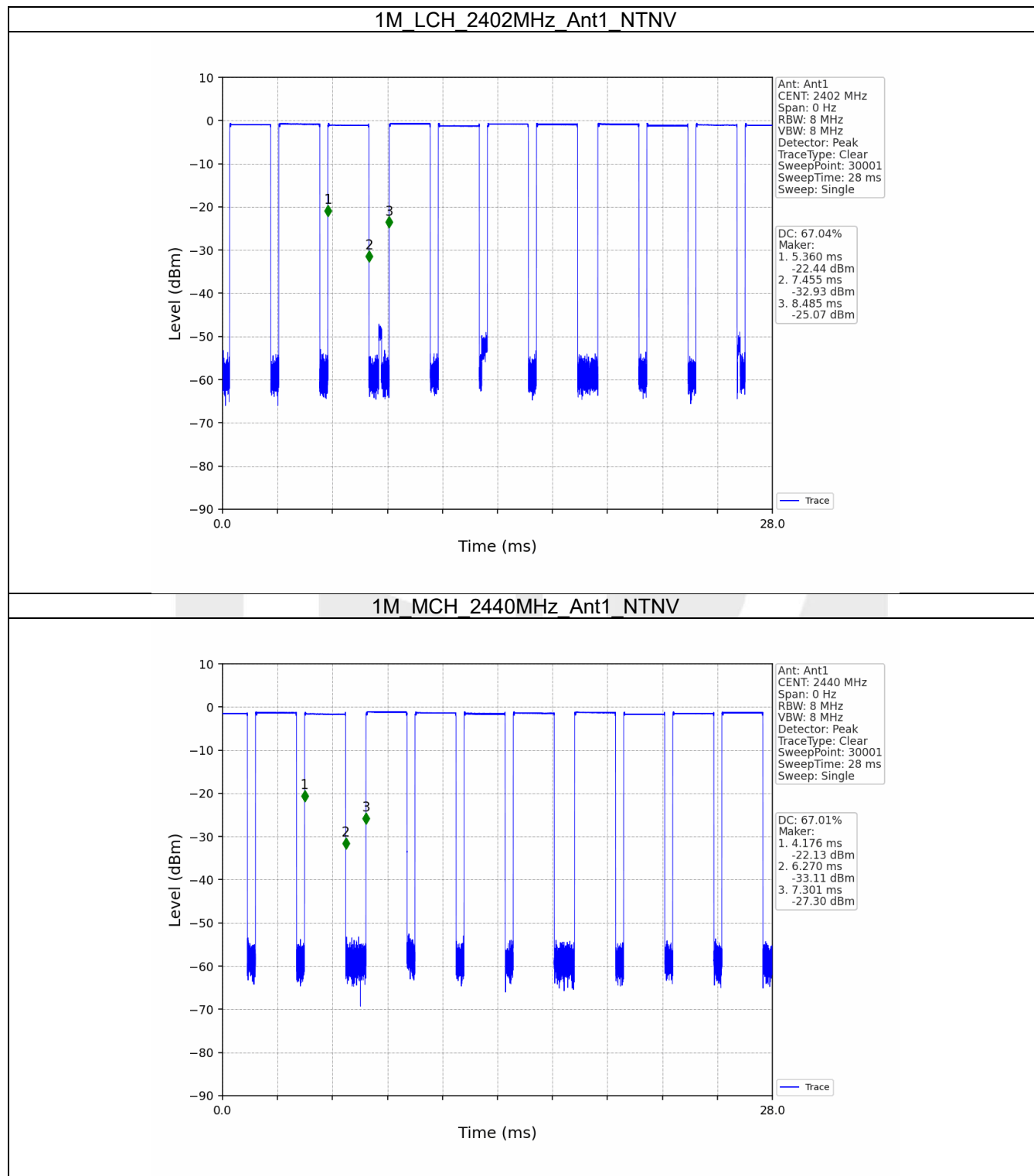
## 1. Duty Cycle

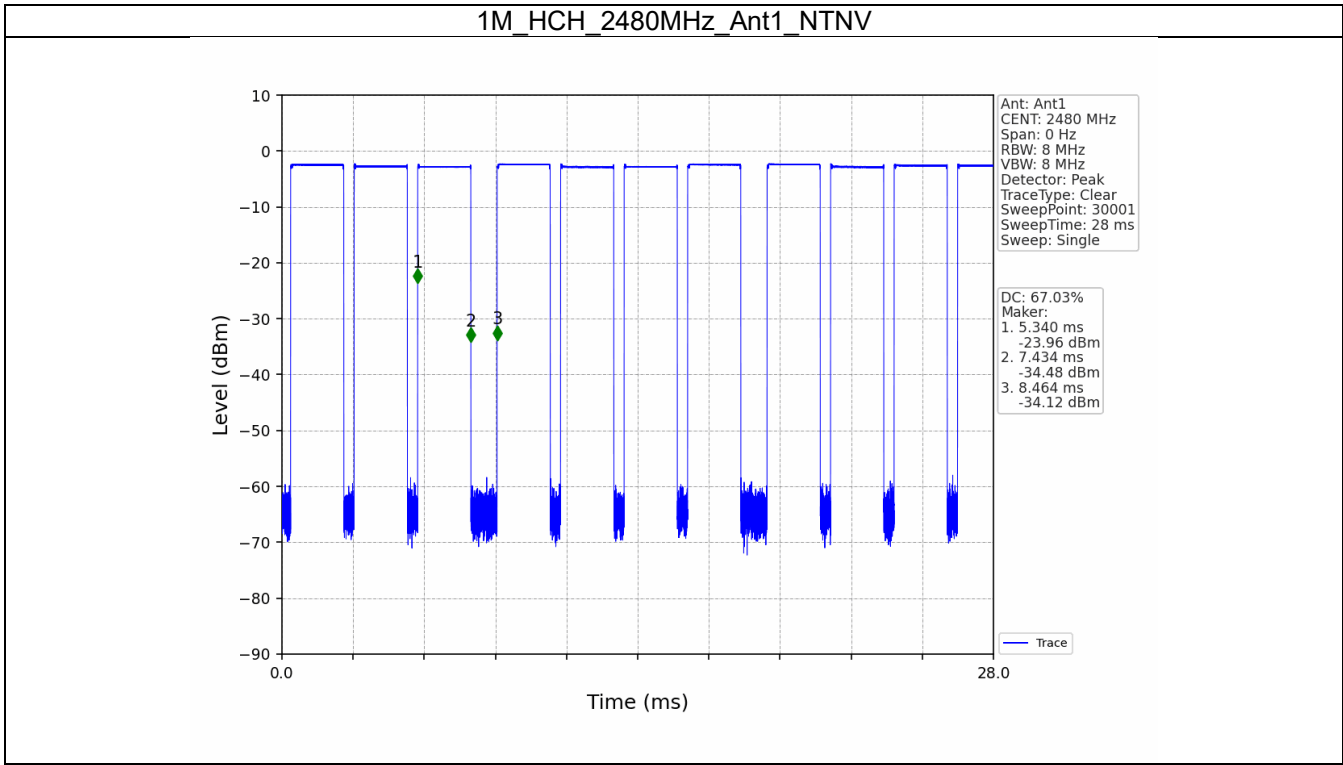
### 1.1 Ant1

#### 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            | 2.095     | 3.125       | 67.04          | 1.74                              | 16.78                 |
|      |         | 2440            | 2.094     | 3.125       | 67.01          | 1.74                              | 16.78                 |
|      |         | 2480            | 2.094     | 3.124       | 67.03          | 1.74                              | 16.81                 |

### 1.1.2 Test Graph





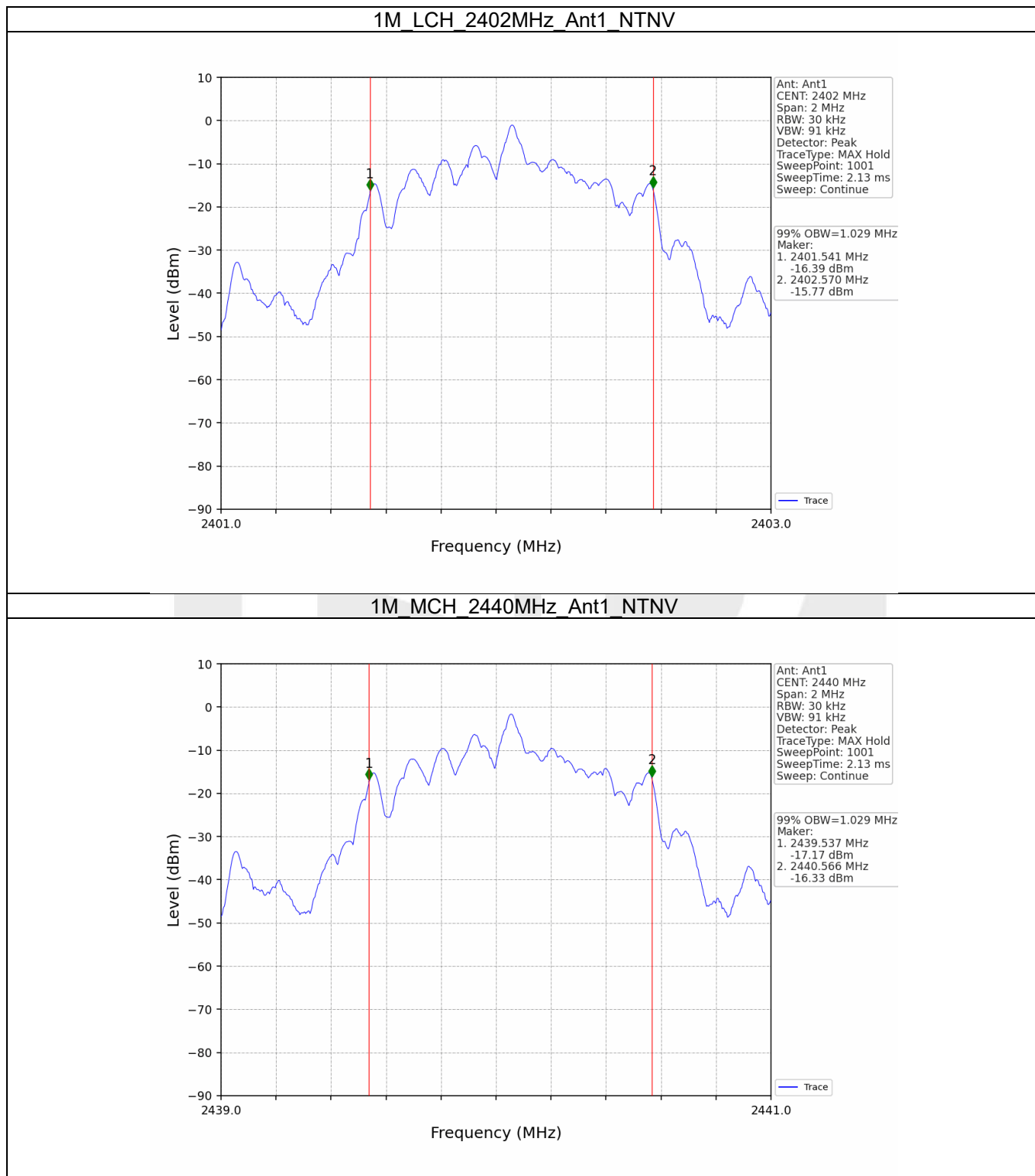
## 2. Bandwidth

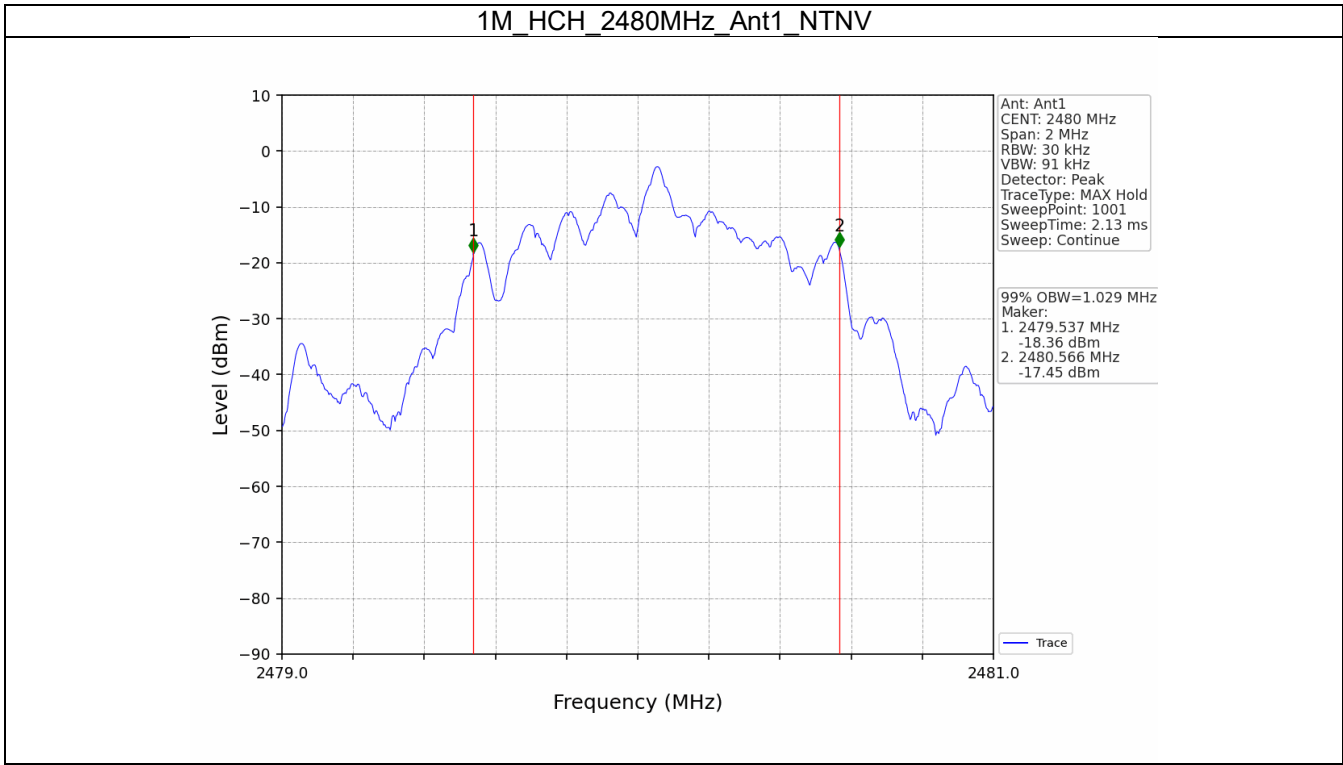
### 2.1 OBW

#### 2.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | ANT | 99% Occupied Bandwidth (MHz) |       | Verdict |
|------|---------|-----------------|-----|------------------------------|-------|---------|
|      |         |                 |     | Result                       | Limit |         |
| 1M   | SISO    | 2402            | 1   | 1.029                        | /     | Pass    |
|      |         | 2440            | 1   | 1.029                        | /     | Pass    |
|      |         | 2480            | 1   | 1.029                        | /     | Pass    |

## 2.1.2 Test Graph





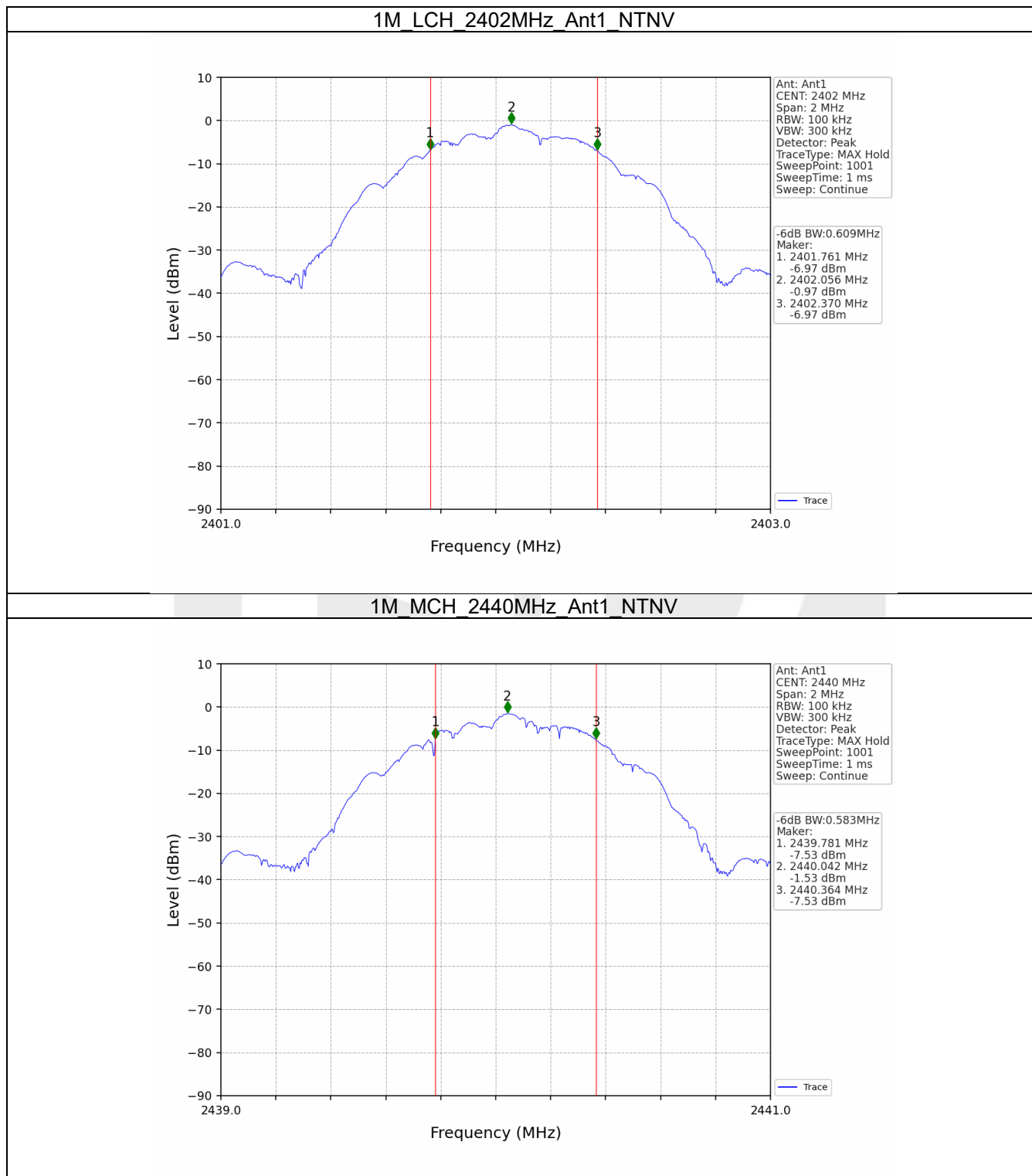
## 2.2 6dB BW

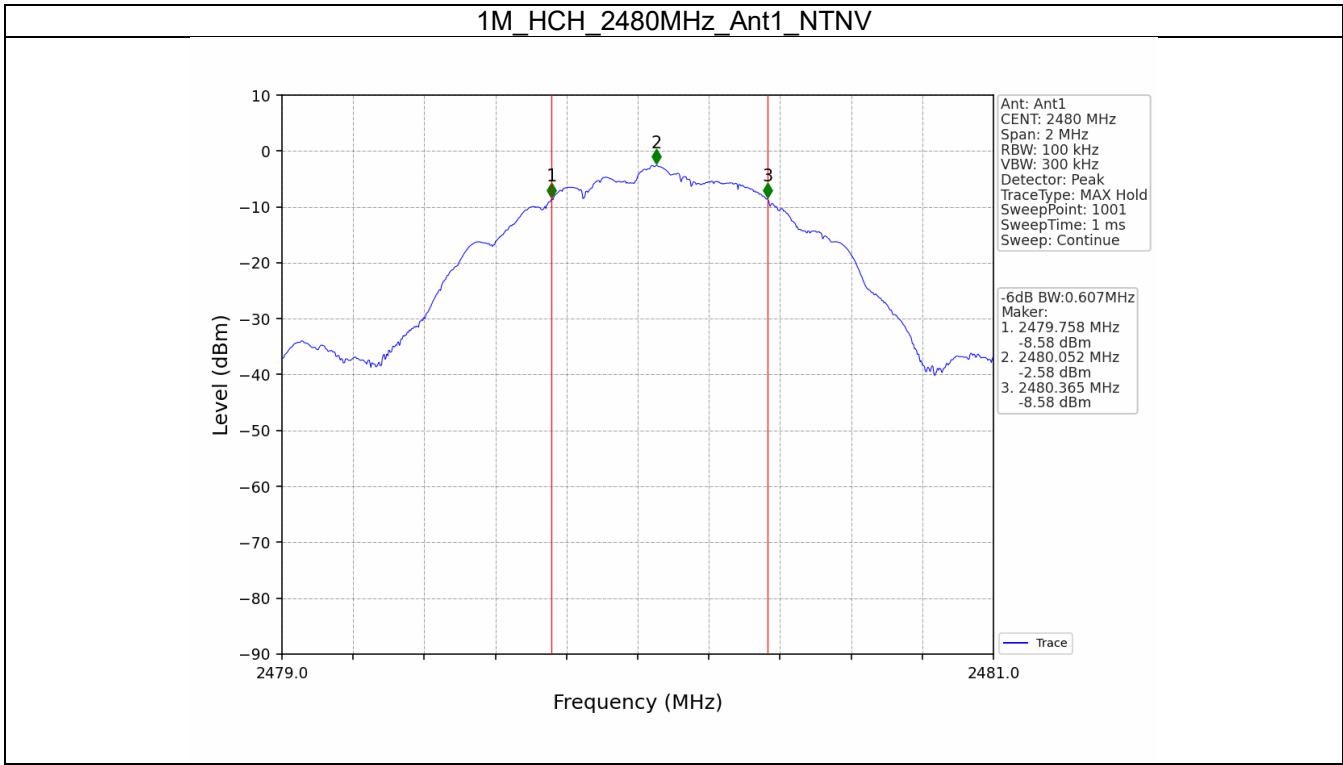
### 2.2.1 Test Result

| Mode | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) |            | Verdict |
|------|---------|-----------------|-----|---------------------|------------|---------|
|      |         |                 |     | Result              | Limit      |         |
| 1M   | SISO    | 2402            | 1   | 0.609               | $\geq 0.5$ | Pass    |
|      |         | 2440            | 1   | 0.583               | $\geq 0.5$ | Pass    |
|      |         | 2480            | 1   | 0.607               | $\geq 0.5$ | Pass    |



## 2.2.2 Test Graph





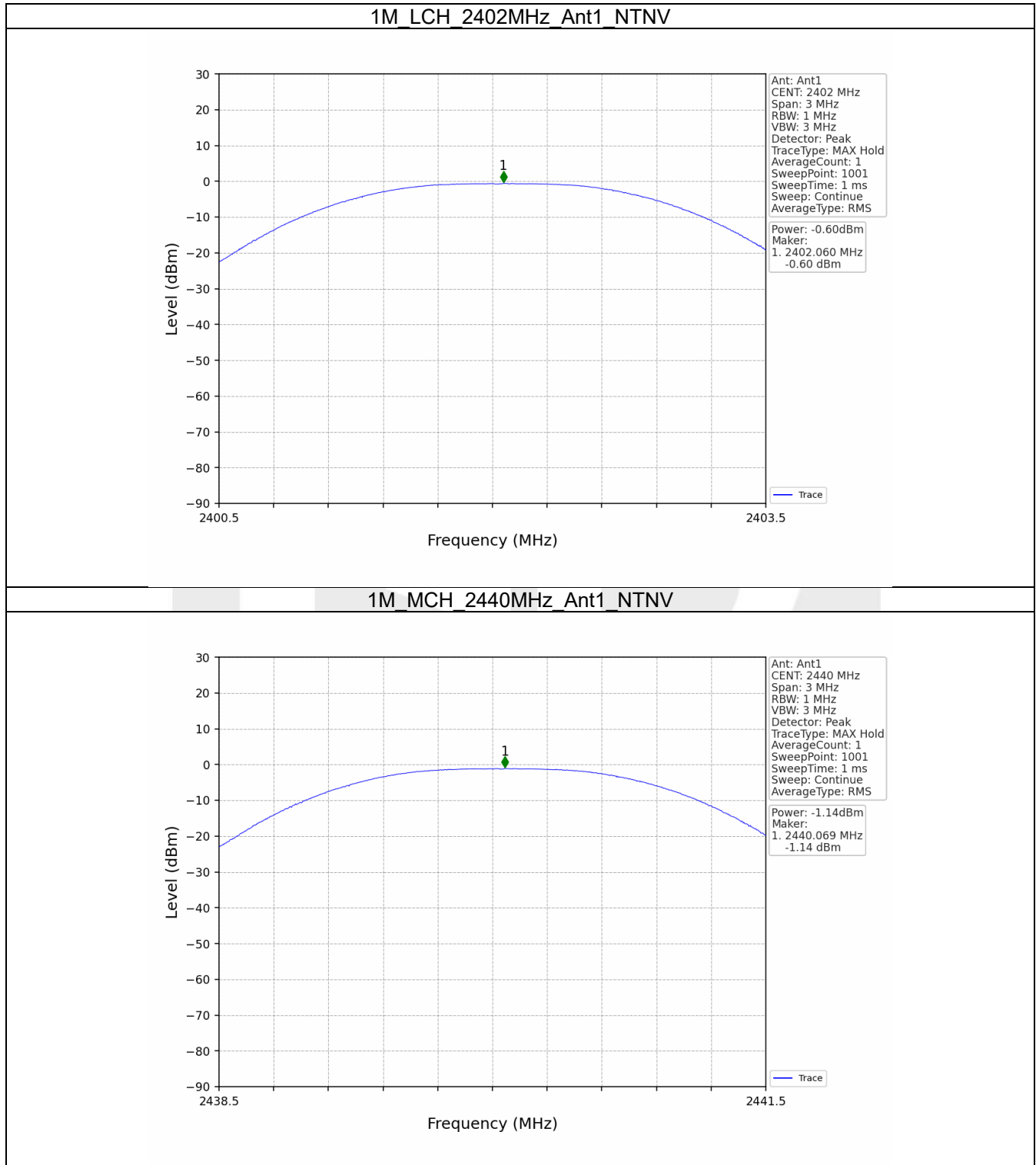
### 3. Maximum Conducted Output Power

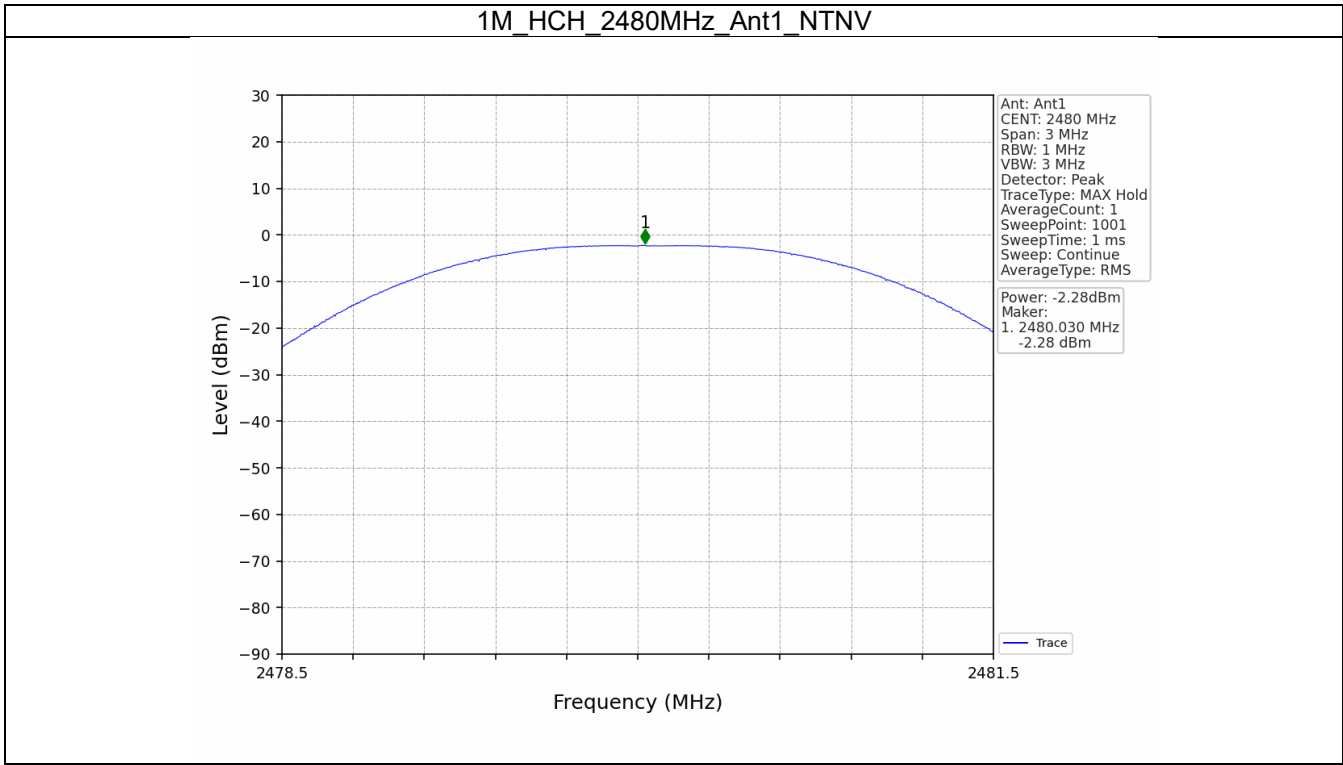
#### 3.1 Power

##### 3.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | Maximum Peak Conducted Output Power (dBm) |       | Verdict |
|------|---------|-----------------|-------------------------------------------|-------|---------|
|      |         |                 | ANT1                                      | Limit |         |
| 1M   | SISO    | 2402            | -0.60                                     | <=30  | Pass    |
|      |         | 2440            | -1.14                                     | <=30  | Pass    |
|      |         | 2480            | -2.28                                     | <=30  | Pass    |

### 3.1.2 Test Graph





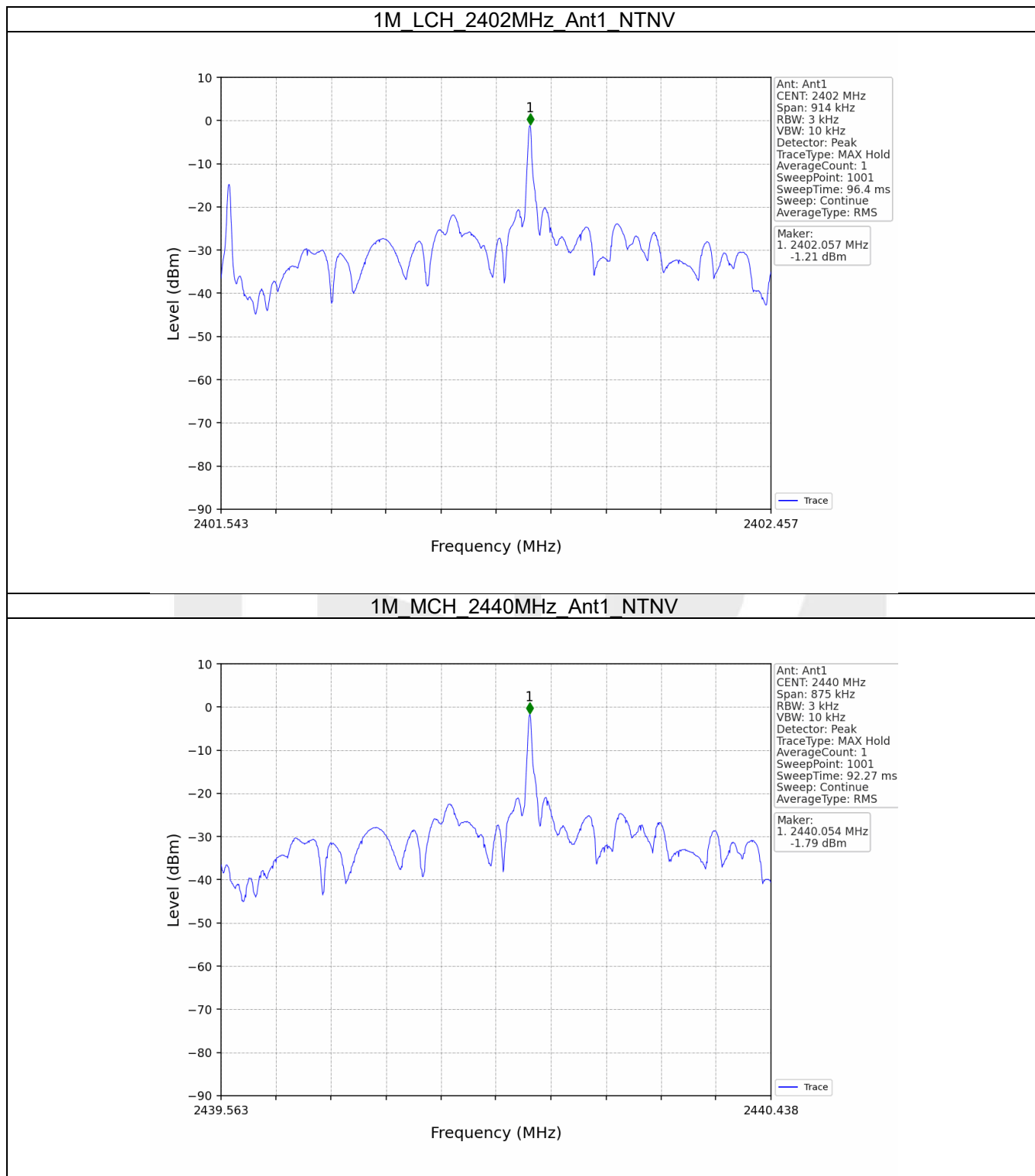
#### 4. Maximum Power Spectral Density

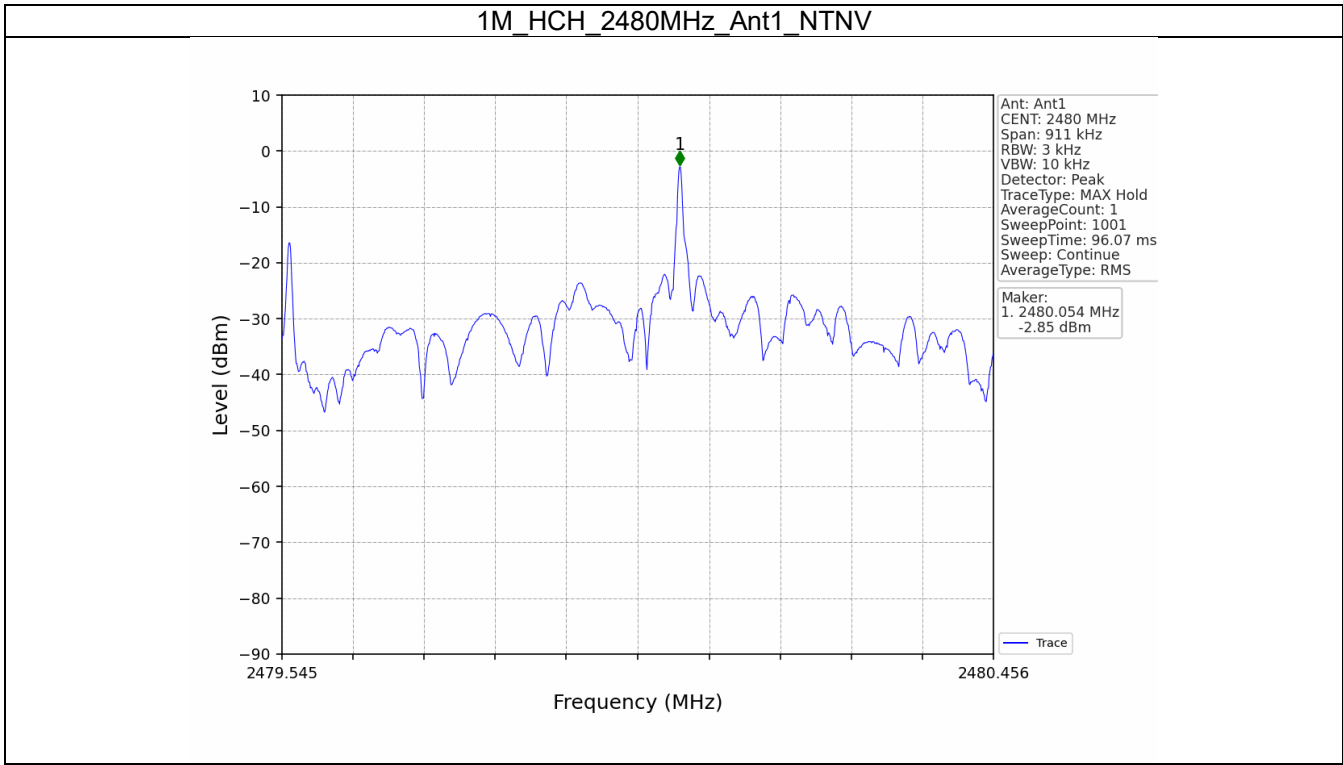
##### 4.1 PSD

##### 4.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | Maximum PSD (dBm/3kHz) |       | Verdict |
|------|---------|-----------------|------------------------|-------|---------|
|      |         |                 | ANT1                   | Limit |         |
| 1M   | SISO    | 2402            | -1.21                  | <=8   | Pass    |
|      |         | 2440            | -1.79                  | <=8   | Pass    |
|      |         | 2480            | -2.85                  | <=8   | Pass    |

#### 4.1.2 Test Graph





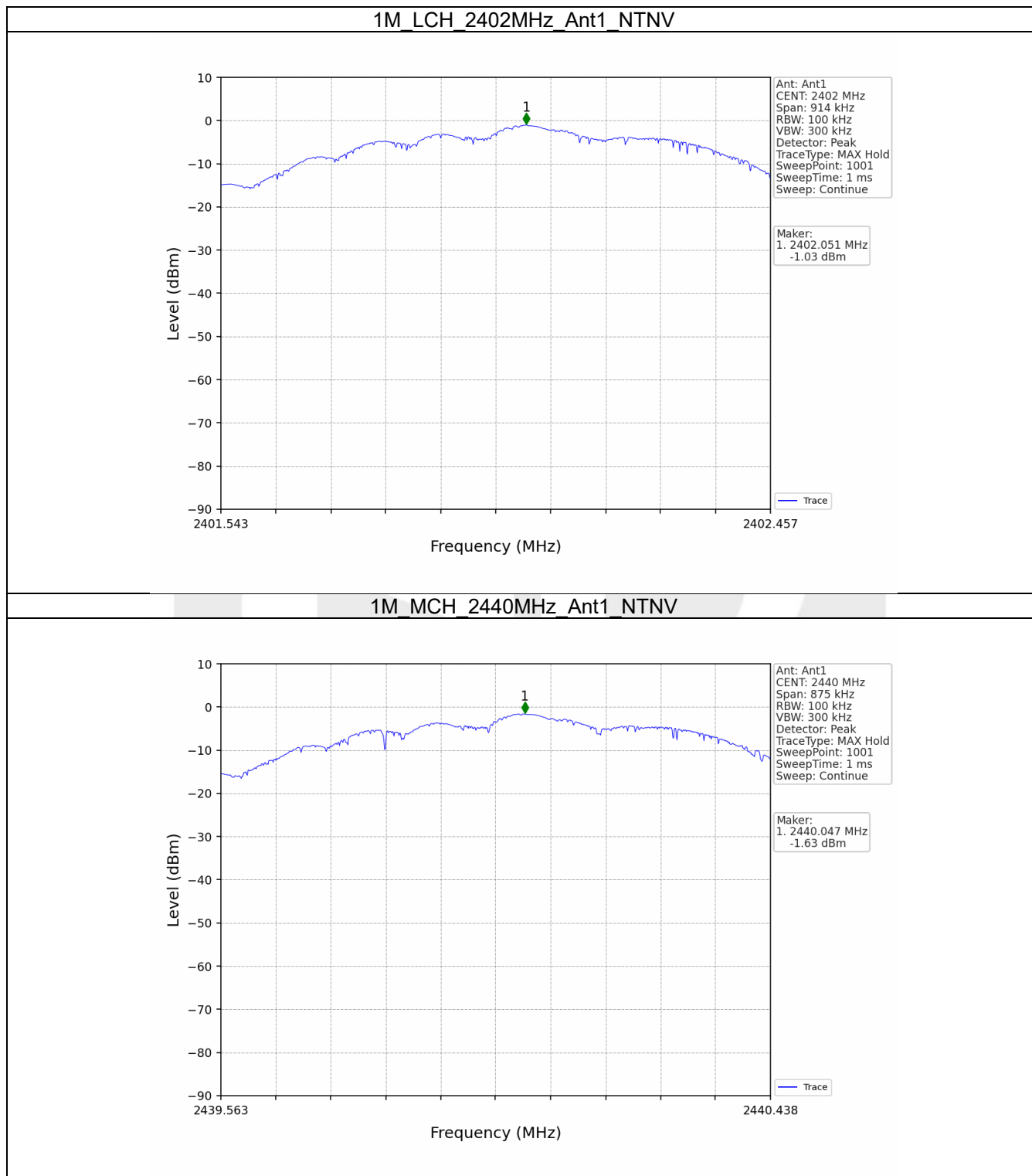
## 5. Unwanted Emissions In Non-restricted Frequency Bands

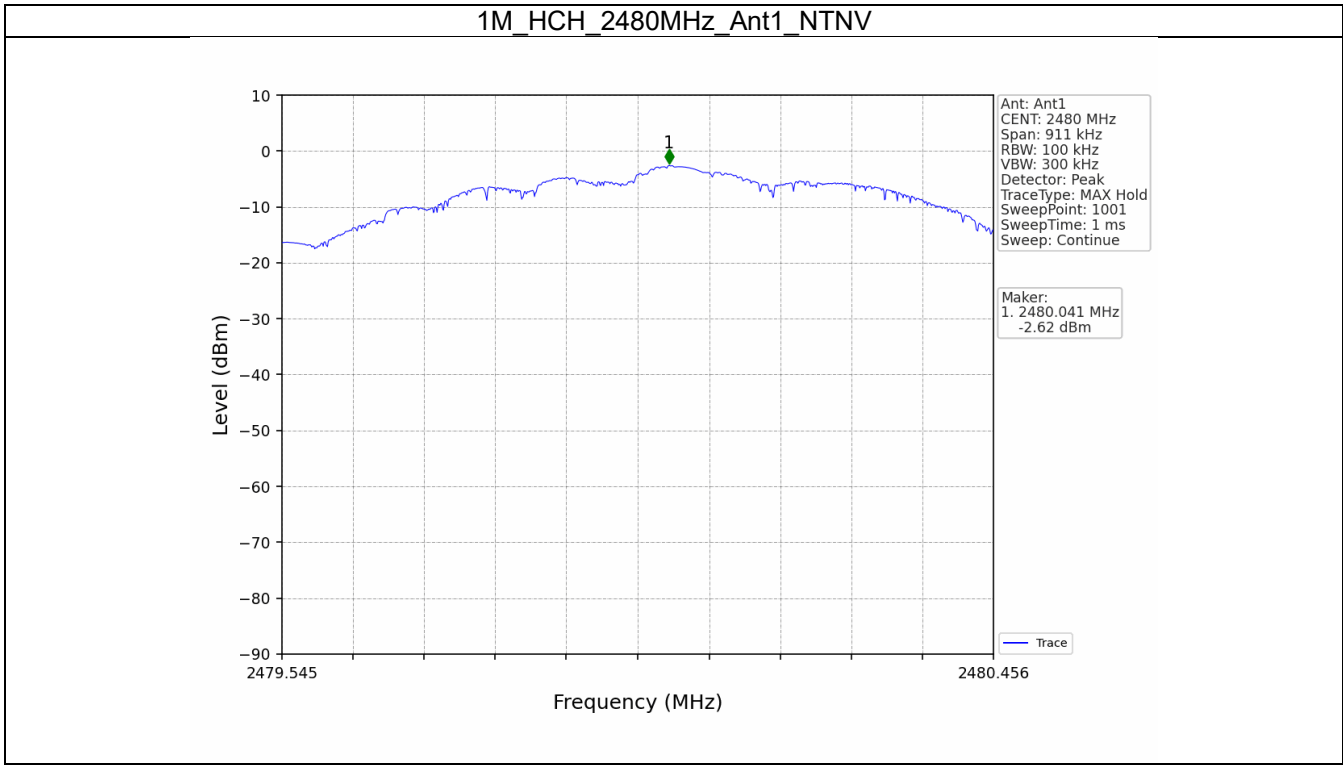
### 5.1 Ref

#### 5.1.1 Test Result

| Mode                                                                                                                                            | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------|-----|--------------------------|
| 1M                                                                                                                                              | SISO    | 2402            | 1   | -1.03                    |
|                                                                                                                                                 |         | 2440            | 1   | -1.63                    |
|                                                                                                                                                 |         | 2480            | 1   | -2.62                    |
| 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



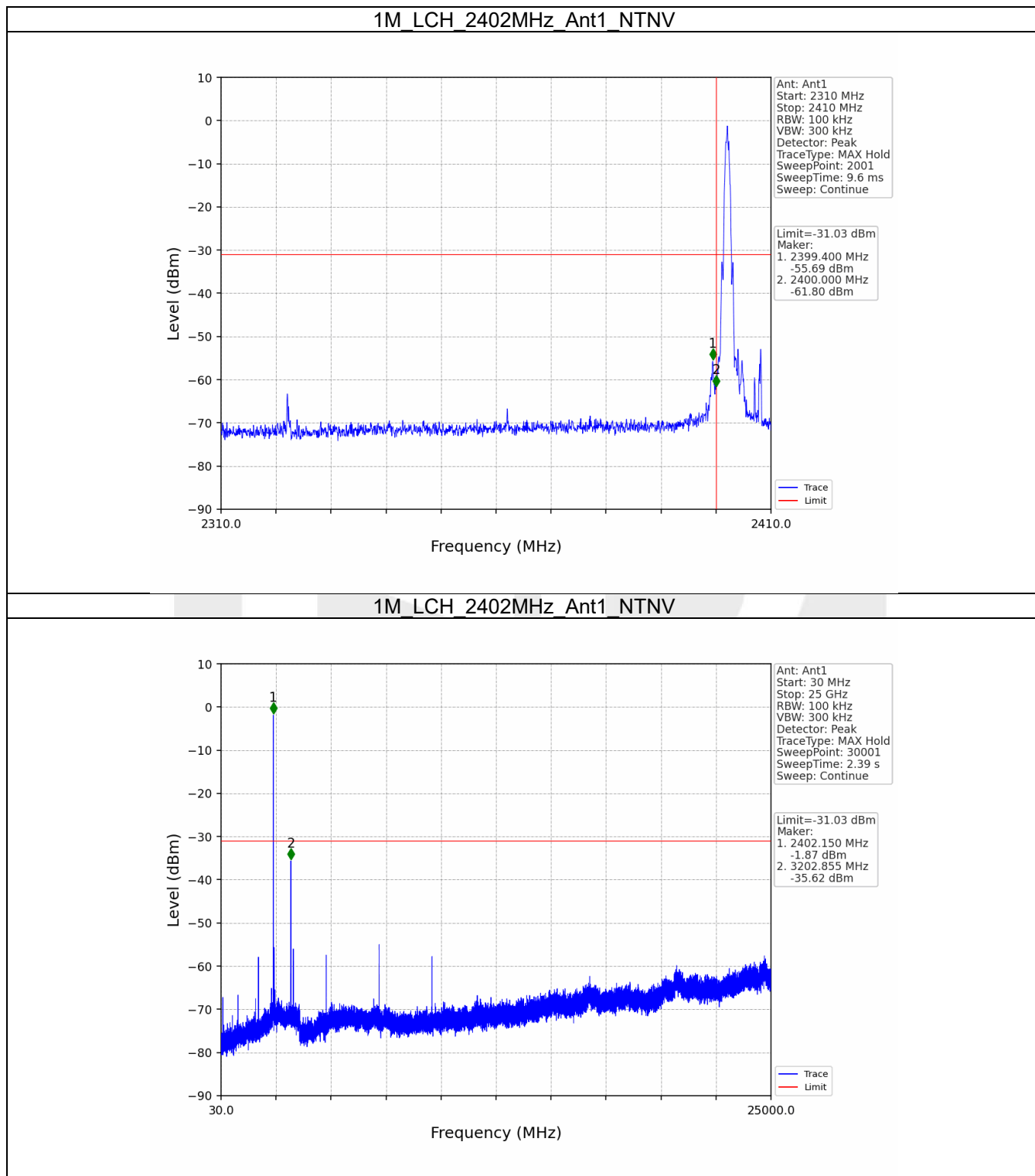


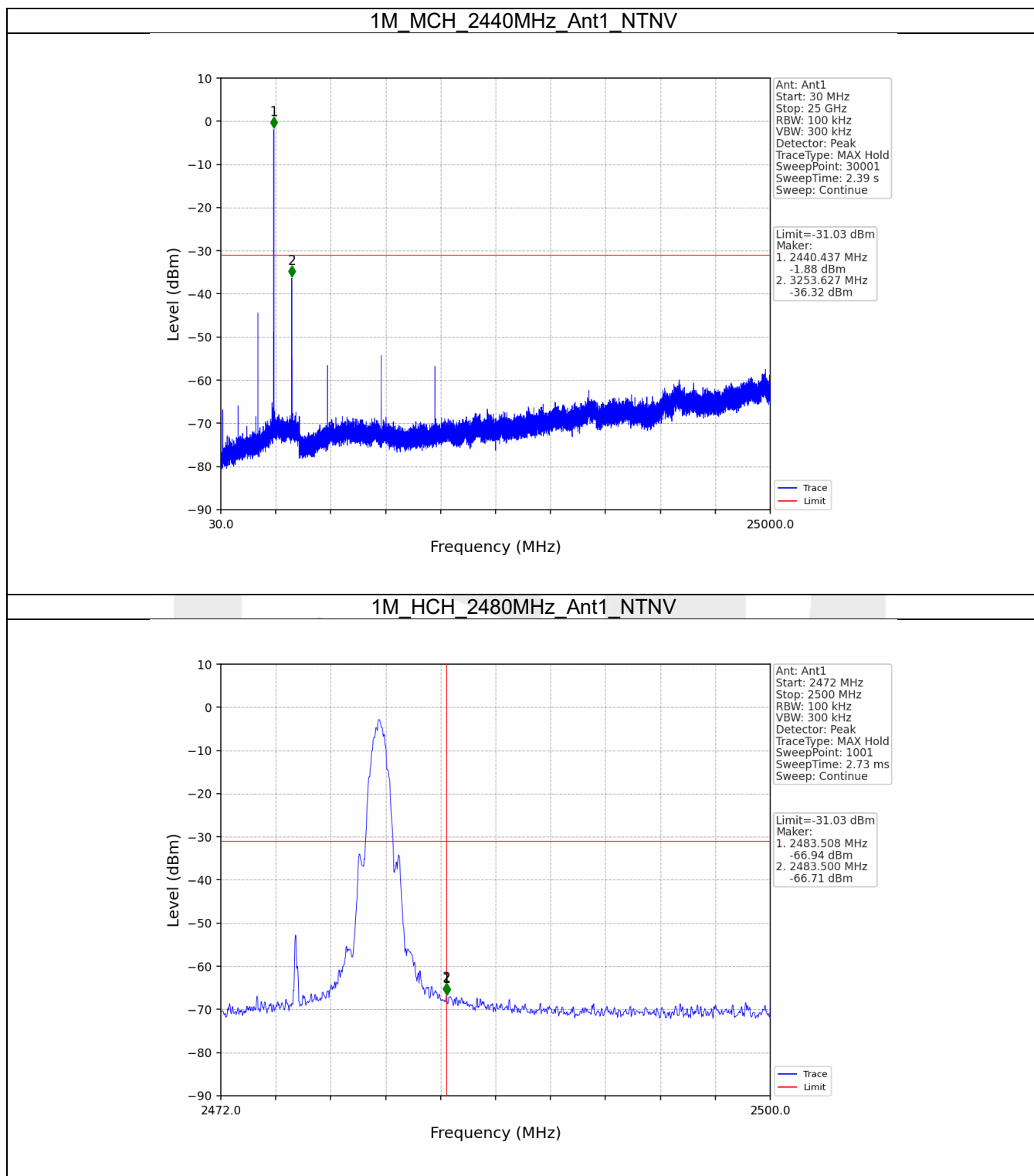
## 5.2 CSE

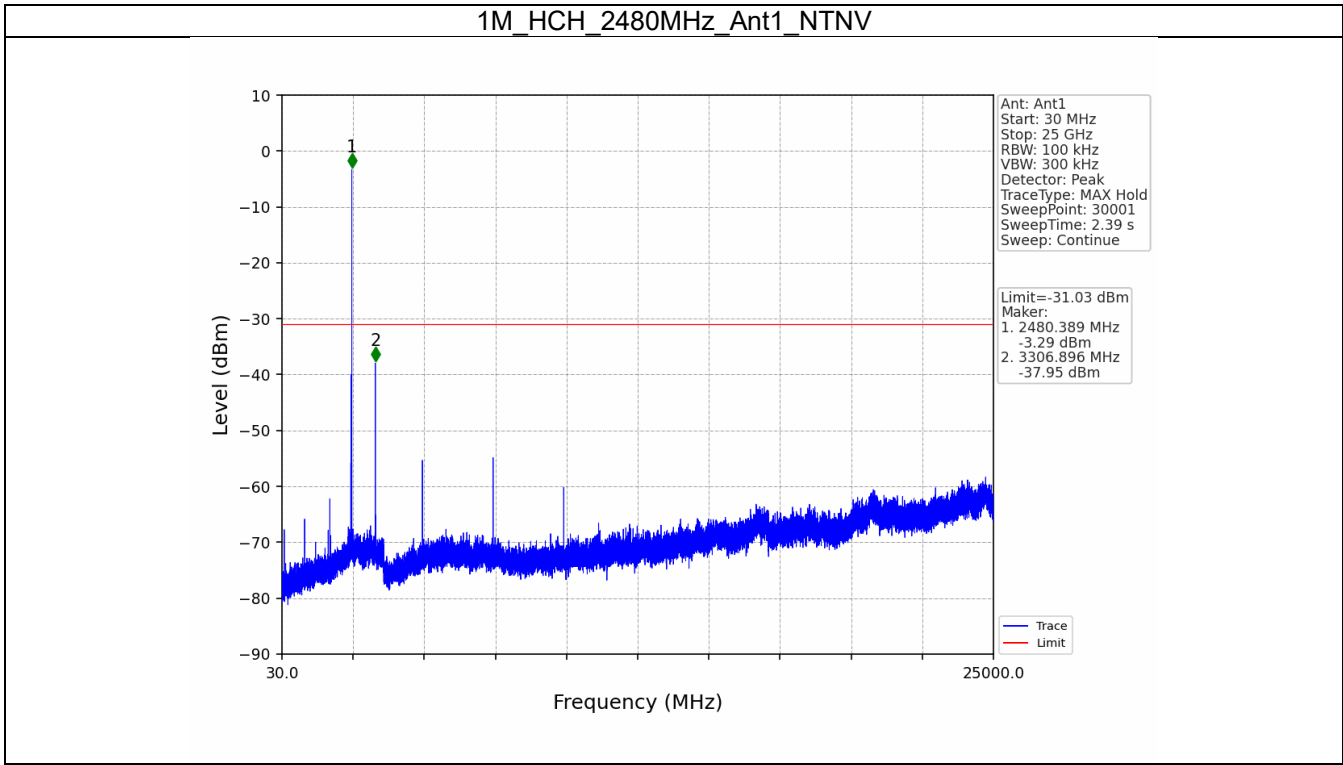
### 5.2.1 Test Result

| Mode                                                                                                                                            | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------|-----|--------------------------|-------------|---------|
| 1M                                                                                                                                              | SISO    | 2402            | 1   | -1.03                    | -31.03      | Pass    |
|                                                                                                                                                 |         | 2440            | 1   | -1.03                    | -31.03      | Pass    |
|                                                                                                                                                 |         | 2480            | 1   | -1.03                    | -31.03      | 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 -----