

## Appendix Test Data for BLE (Conducted Measurement)

Product Name: Smart Speaker

Trade Mark: N/A

Test Model: TF26PRO

FCC ID: 2BD94-TF26PRO

### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 24.6℃     |
| Relative Humidity: | 50%       |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Tony luo  |
| Supervised by:     | Max zhang |
| NOTE               | N/A       |

### 1. Duty Cycle

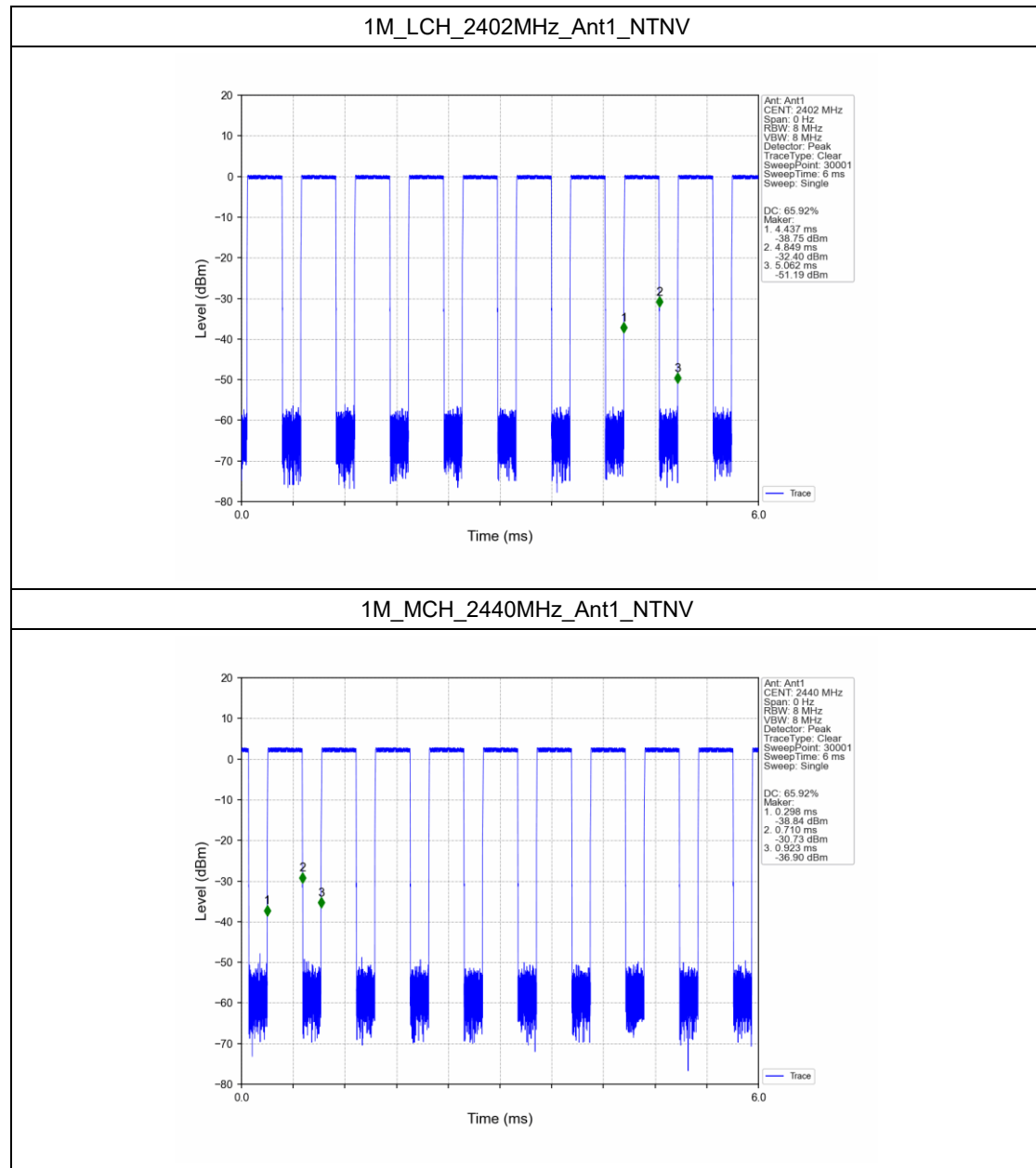
#### 1.1 Test Result

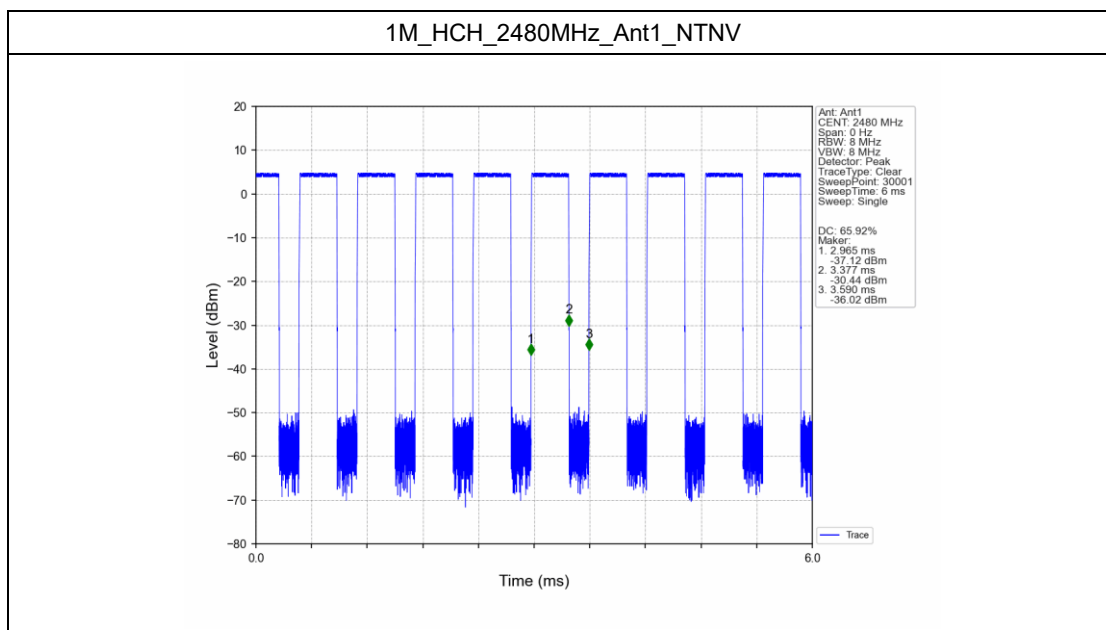
##### 1.1.1 Ant1

| Ant1 |         |                 |           |             |                |                                   |                       |
|------|---------|-----------------|-----------|-------------|----------------|-----------------------------------|-----------------------|
| Mode | TX Type | Frequency (MHz) | T_on (ms) | Period (ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | Max. DC Variation (%) |
| 1M   | SISO    | 2402            | 0.412     | 0.625       | 65.92          | 1.81                              | 0.04                  |
|      |         | 2440            | 0.412     | 0.625       | 65.92          | 1.81                              | 0.03                  |
|      |         | 2480            | 0.412     | 0.625       | 65.92          | 1.81                              | 0.03                  |

## 1.2 Test Graph

### 1.2.1 Ant1





## 2. Bandwidth

### 2.1 Test Result

#### 2.1.1 OBW

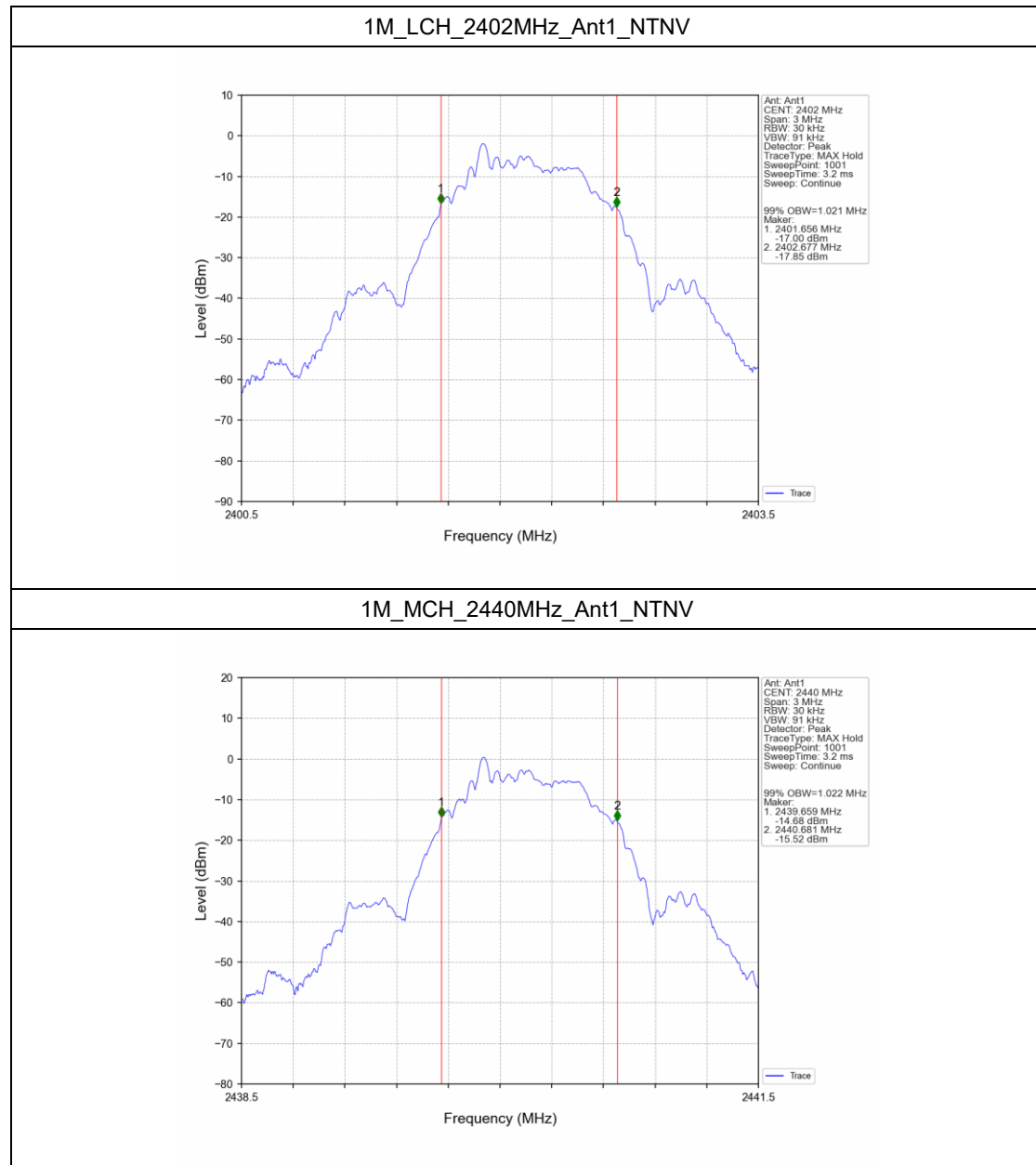
| Mode | TX Type | Frequency (MHz) | ANT | 99% Occupied Bandwidth (MHz) |       | Verdict |
|------|---------|-----------------|-----|------------------------------|-------|---------|
|      |         |                 |     | Result                       | Limit |         |
| 1M   | SISO    | 2402            | 1   | 1.021                        | /     | Pass    |
|      |         | 2440            | 1   | 1.022                        | /     | Pass    |
|      |         | 2480            | 1   | 1.025                        | /     | Pass    |

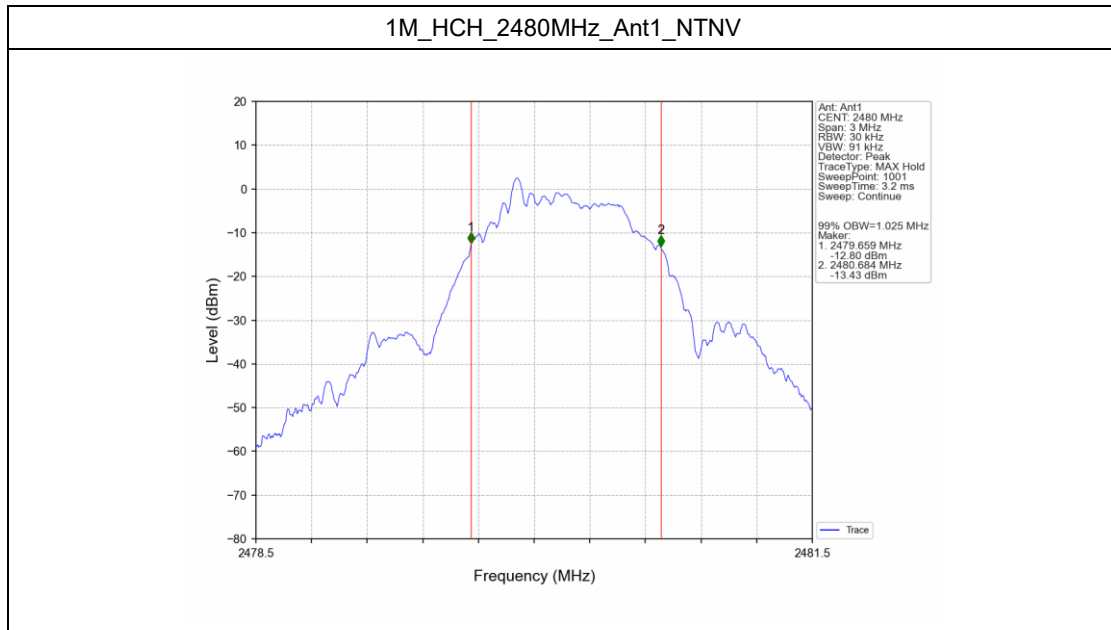
#### 2.1.2 6dB BW

| Mode | TX Type | Frequency (MHz) | ANT | 6dB Bandwidth (MHz) |            | Verdict |
|------|---------|-----------------|-----|---------------------|------------|---------|
|      |         |                 |     | Result              | Limit      |         |
| 1M   | SISO    | 2402            | 1   | 0.681               | $\geq 0.5$ | Pass    |
|      |         | 2440            | 1   | 0.680               | $\geq 0.5$ | Pass    |
|      |         | 2480            | 1   | 0.681               | $\geq 0.5$ | Pass    |

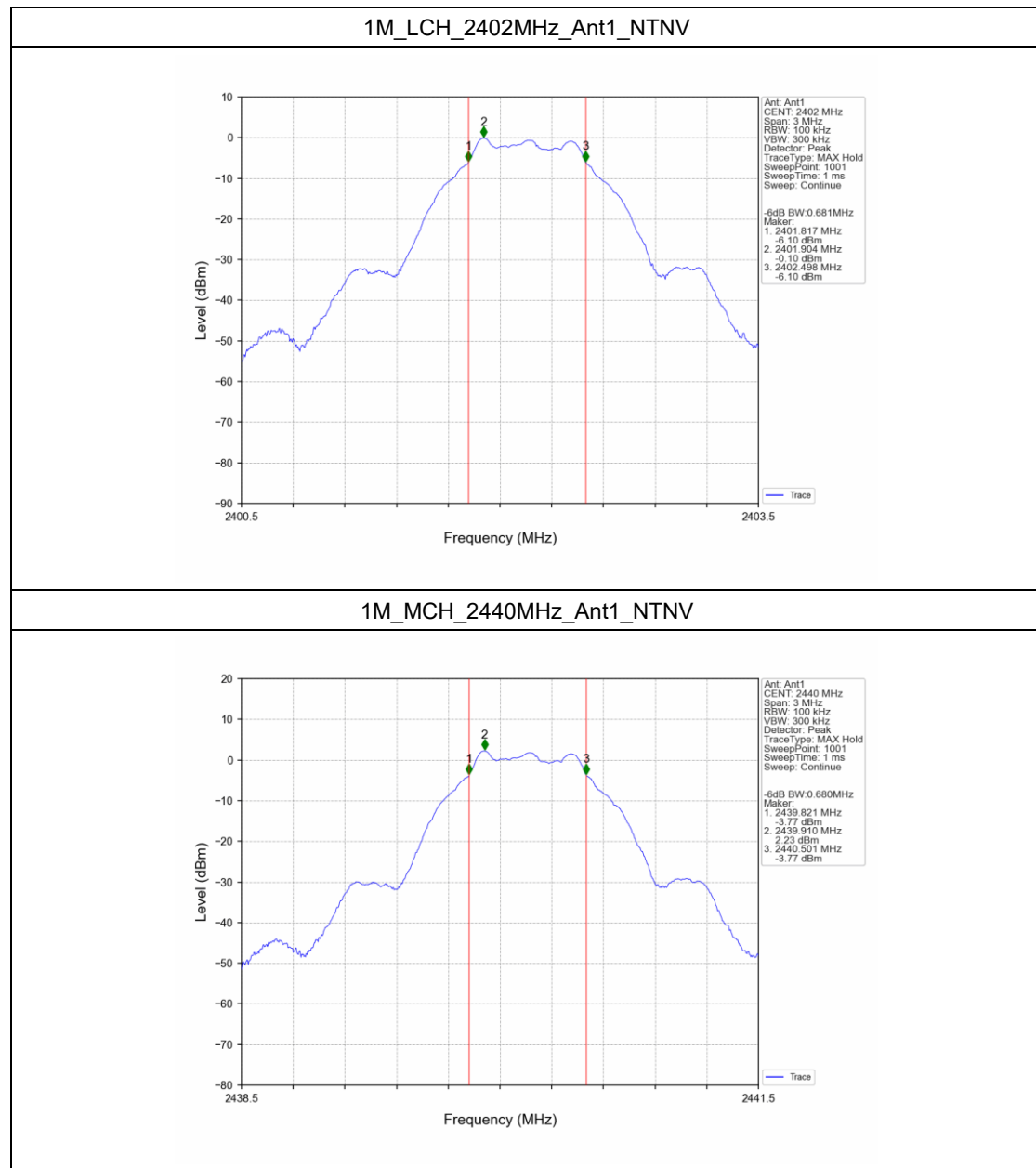
## 2.2 Test Graph

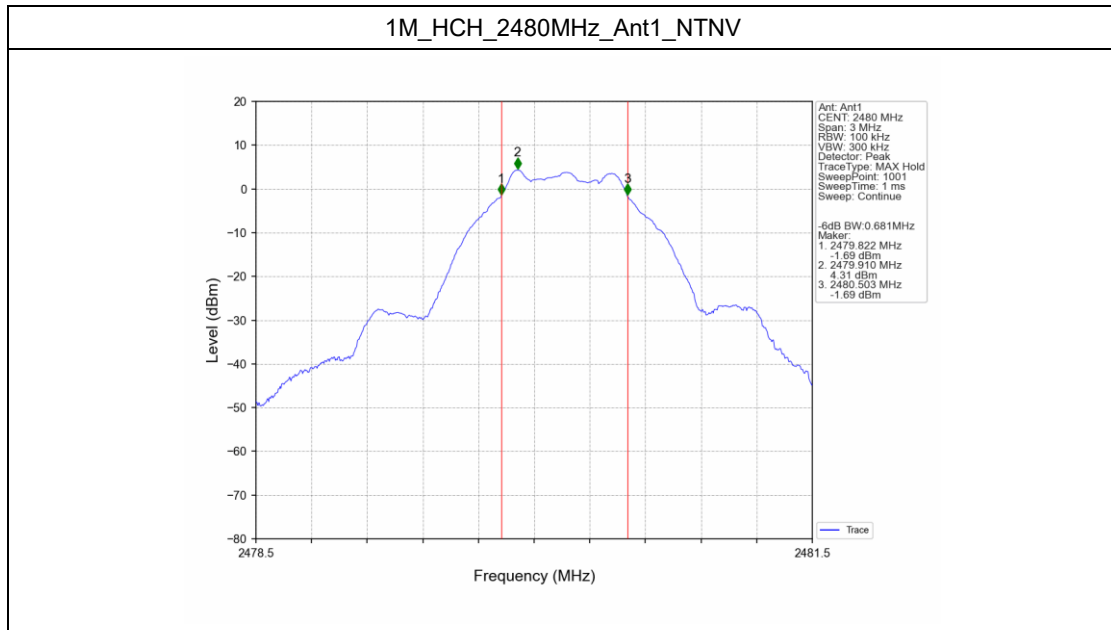
### 2.2.1 OBW





## 2.2.2 6dB BW







### 3. Maximum Conducted Output Power

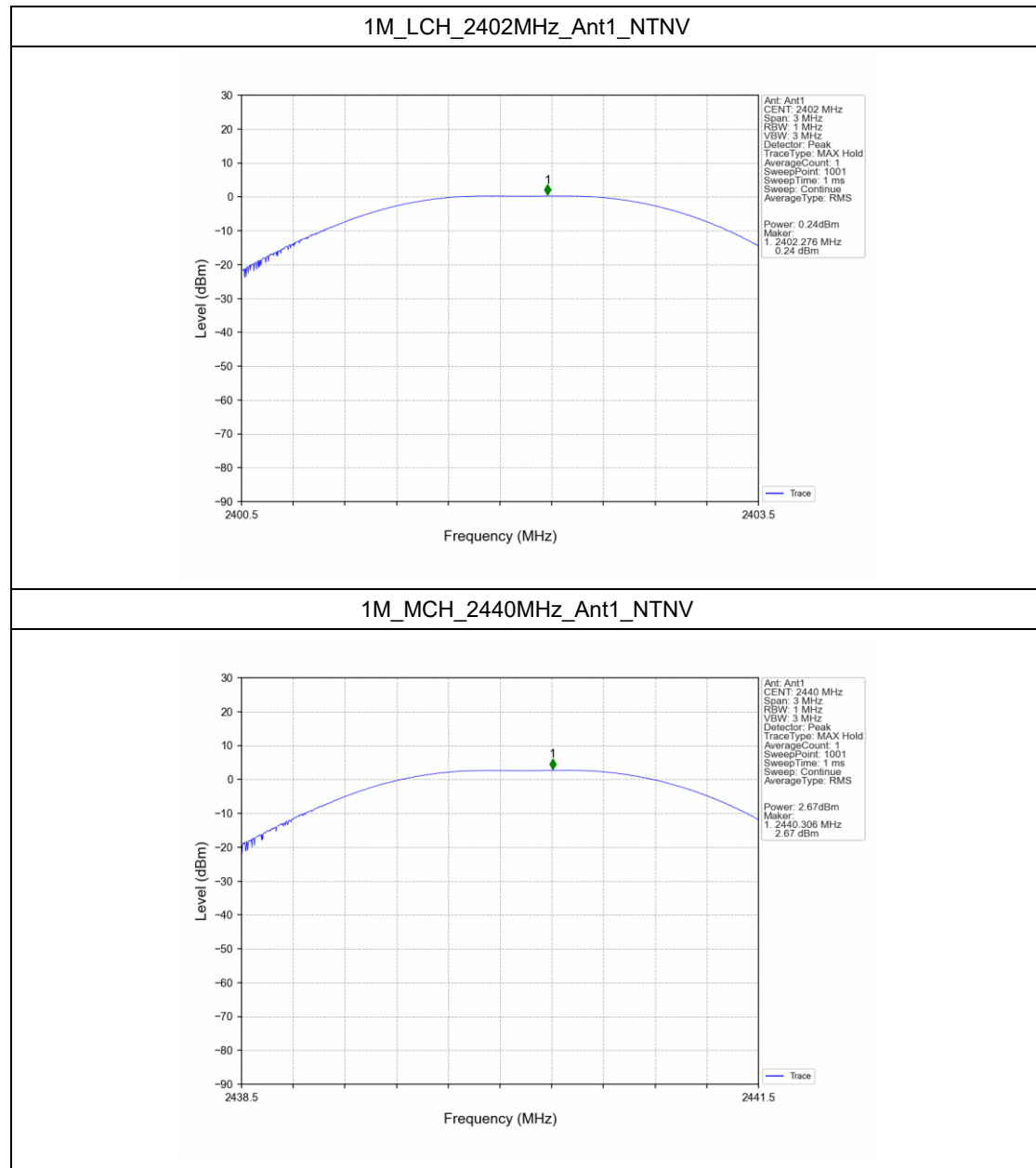
#### 3.1 Test Result

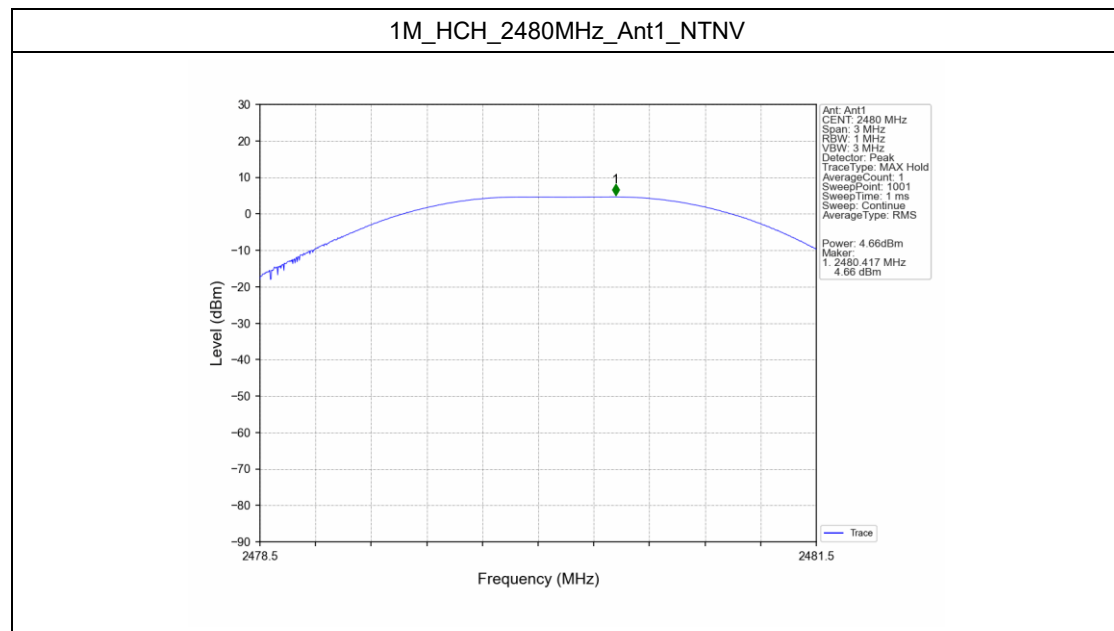
##### 3.1.1 Power

| Mode                                | TX Type | Frequency (MHz) | Maximum Peak Conducted Output Power (dBm) |       | Verdict |
|-------------------------------------|---------|-----------------|-------------------------------------------|-------|---------|
|                                     |         |                 | ANT1                                      | Limit |         |
| 1M                                  | SISO    | 2402            | 0.24                                      | <=30  | Pass    |
|                                     |         | 2440            | 2.67                                      | <=30  | Pass    |
|                                     |         | 2480            | 4.66                                      | <=30  | Pass    |
| Note1: Antenna Gain: Ant1: 1.00dBi; |         |                 |                                           |       |         |

## 3.2 Test Graph

### 3.2.1 Power





## 4. Maximum Power Spectral Density

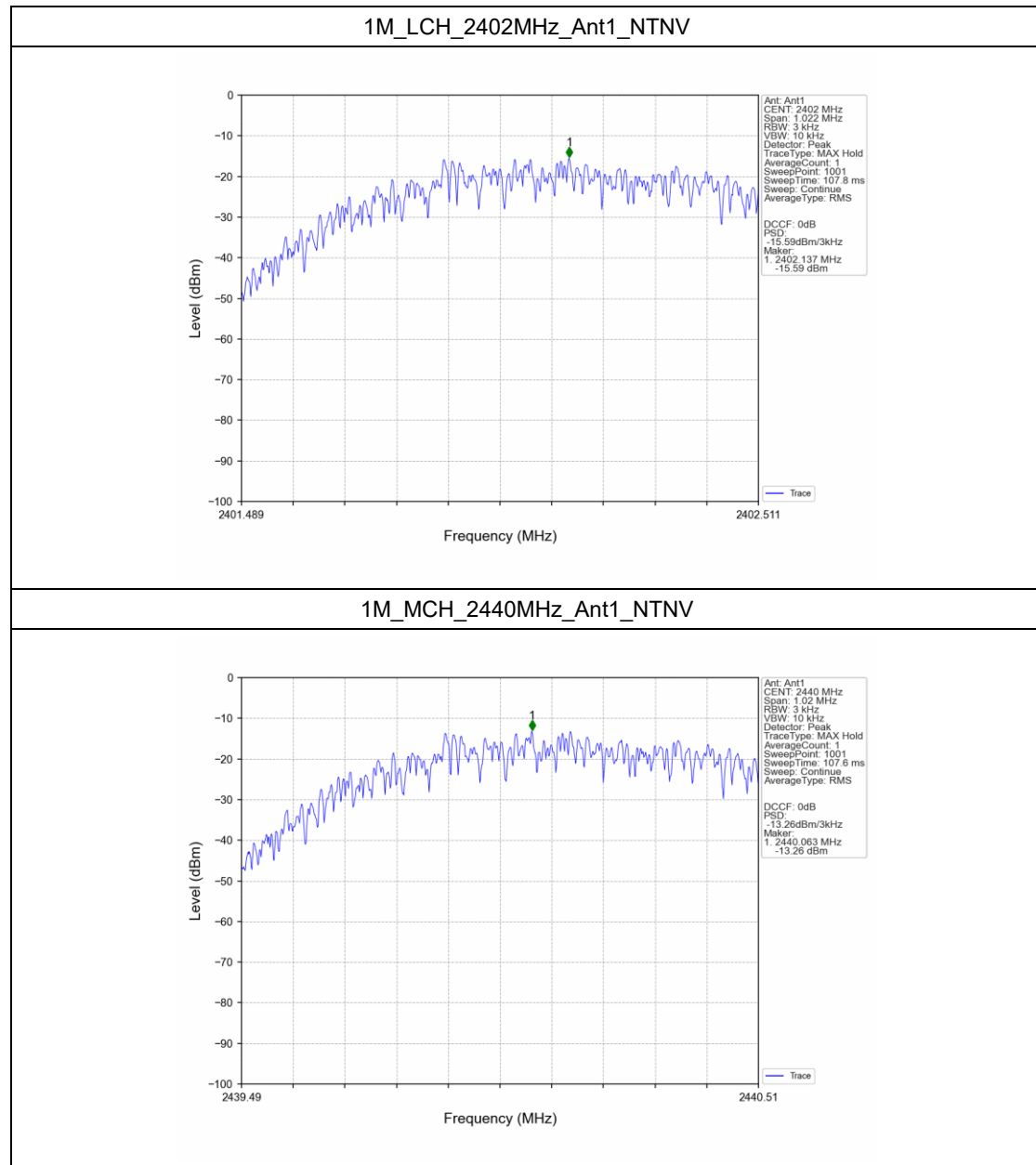
### 4.1 Test Result

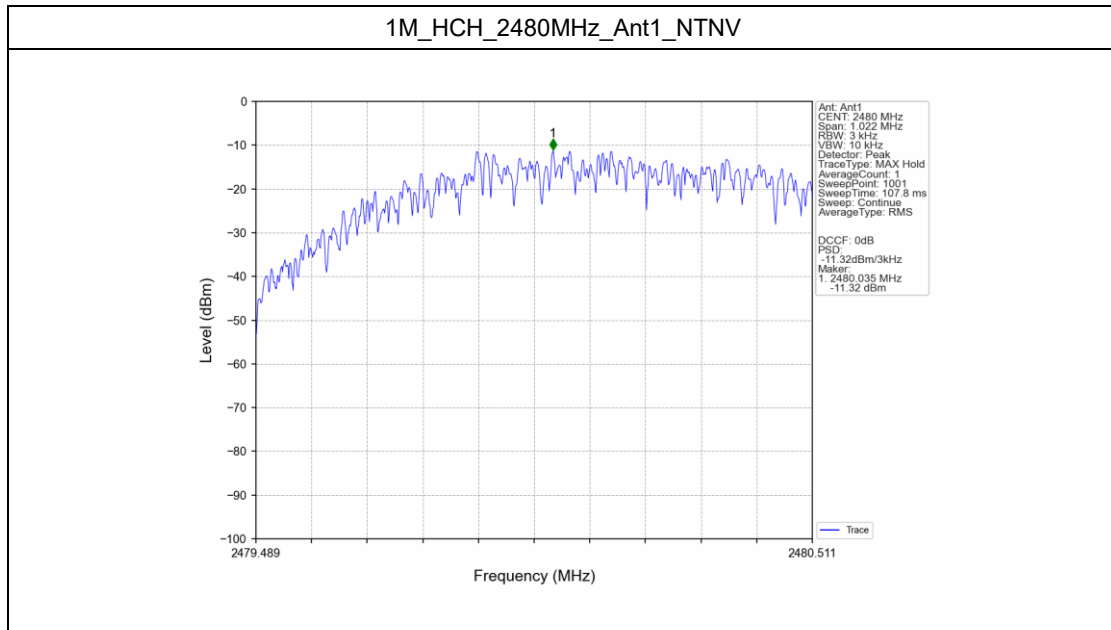
#### 4.1.1 PSD

| Mode                                | TX Type | Frequency (MHz) | Maximum PSD (dBm/3kHz) |       | Verdict |
|-------------------------------------|---------|-----------------|------------------------|-------|---------|
|                                     |         |                 | ANT1                   | Limit |         |
| 1M                                  | SISO    | 2402            | -15.59                 | <=8   | Pass    |
|                                     |         | 2440            | -13.26                 | <=8   | Pass    |
|                                     |         | 2480            | -11.32                 | <=8   | Pass    |
| Note1: Antenna Gain: Ant1: 1.00dBi; |         |                 |                        |       |         |

## 4.2 Test Graph

### 4.2.1 PSD





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

### 5.1 Test Result

#### 5.1.1 Ref

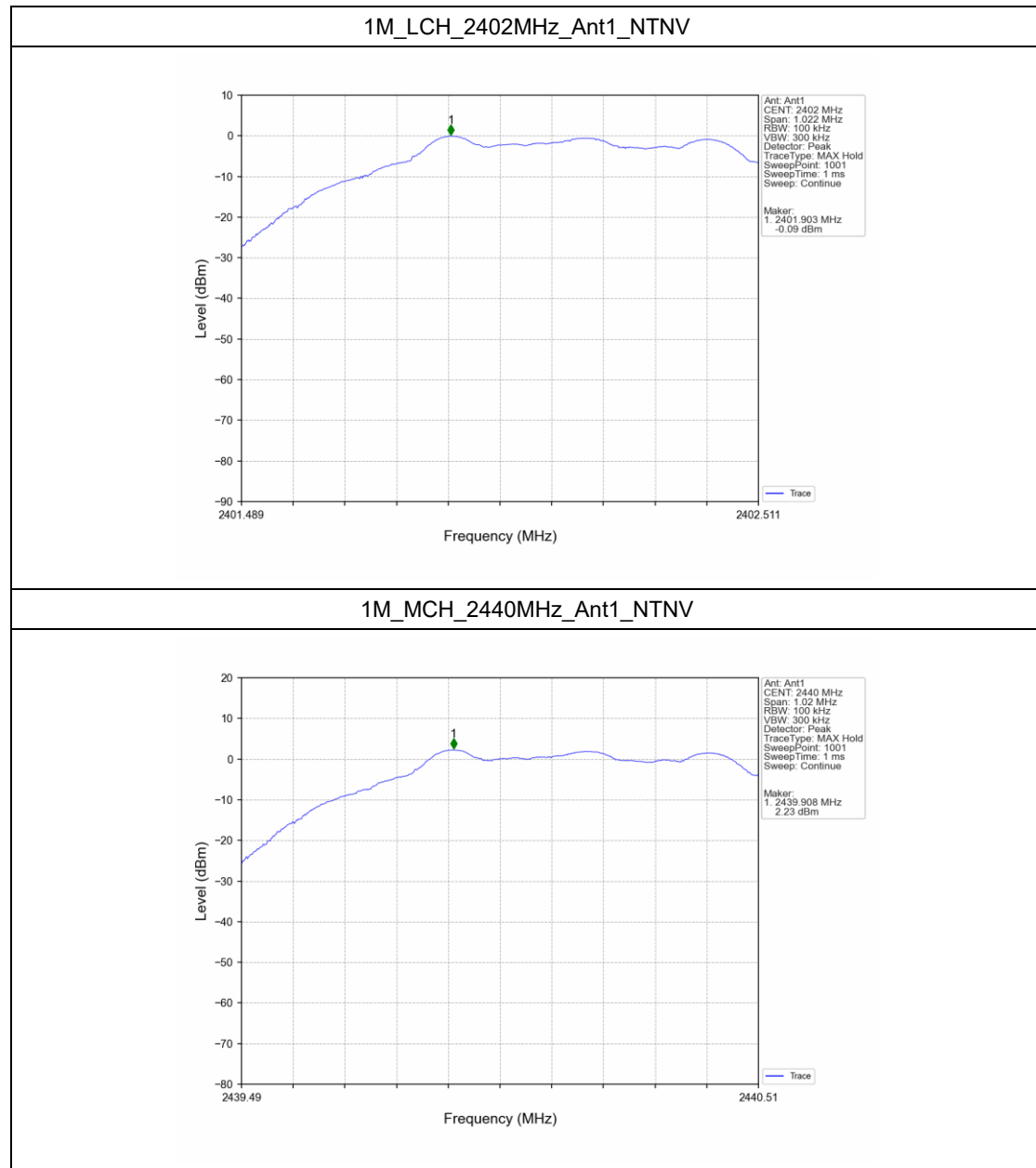
| Mode                                                                                                                                            | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------|-----|--------------------------|
| 1M                                                                                                                                              | SISO    | 2402            | 1   | -0.09                    |
|                                                                                                                                                 |         | 2440            | 1   | 2.23                     |
|                                                                                                                                                 |         | 2480            | 1   | 4.28                     |
| 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 CSE

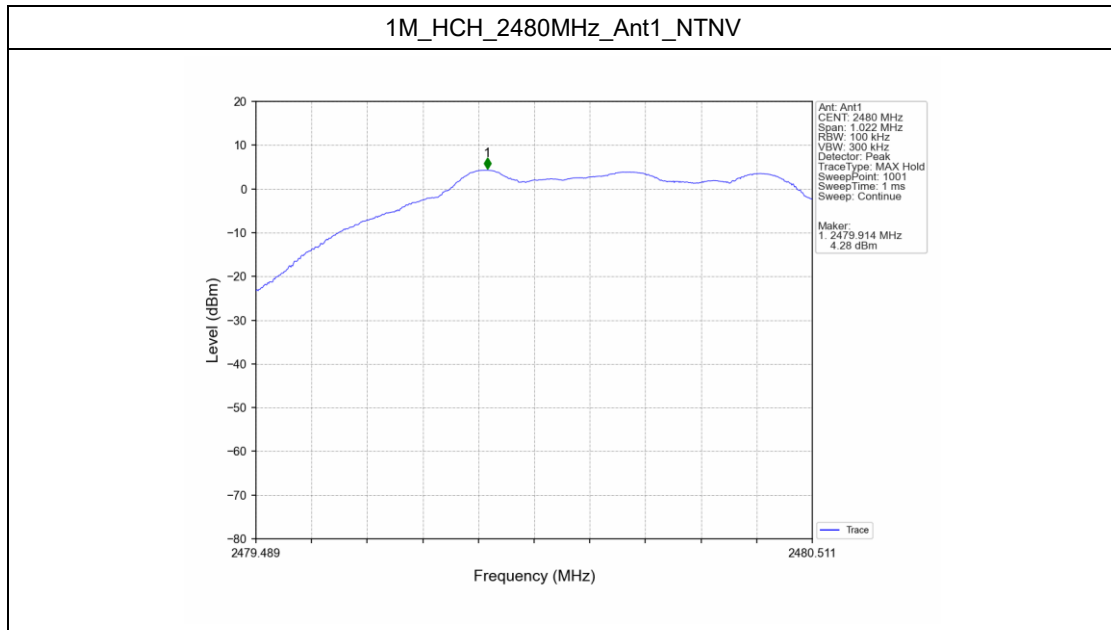
| Mode                                                                                                                                            | TX Type | Frequency (MHz) | ANT | Level of Reference (dBm) | Limit (dBm) | Verdict |
|-------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------|-----|--------------------------|-------------|---------|
| 1M                                                                                                                                              | SISO    | 2402            | 1   | 4.28                     | -15.72      | Pass    |
|                                                                                                                                                 |         | 2440            | 1   | 4.28                     | -15.72      | Pass    |
|                                                                                                                                                 |         | 2480            | 1   | 4.28                     | -15.72      | 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 Test Graph

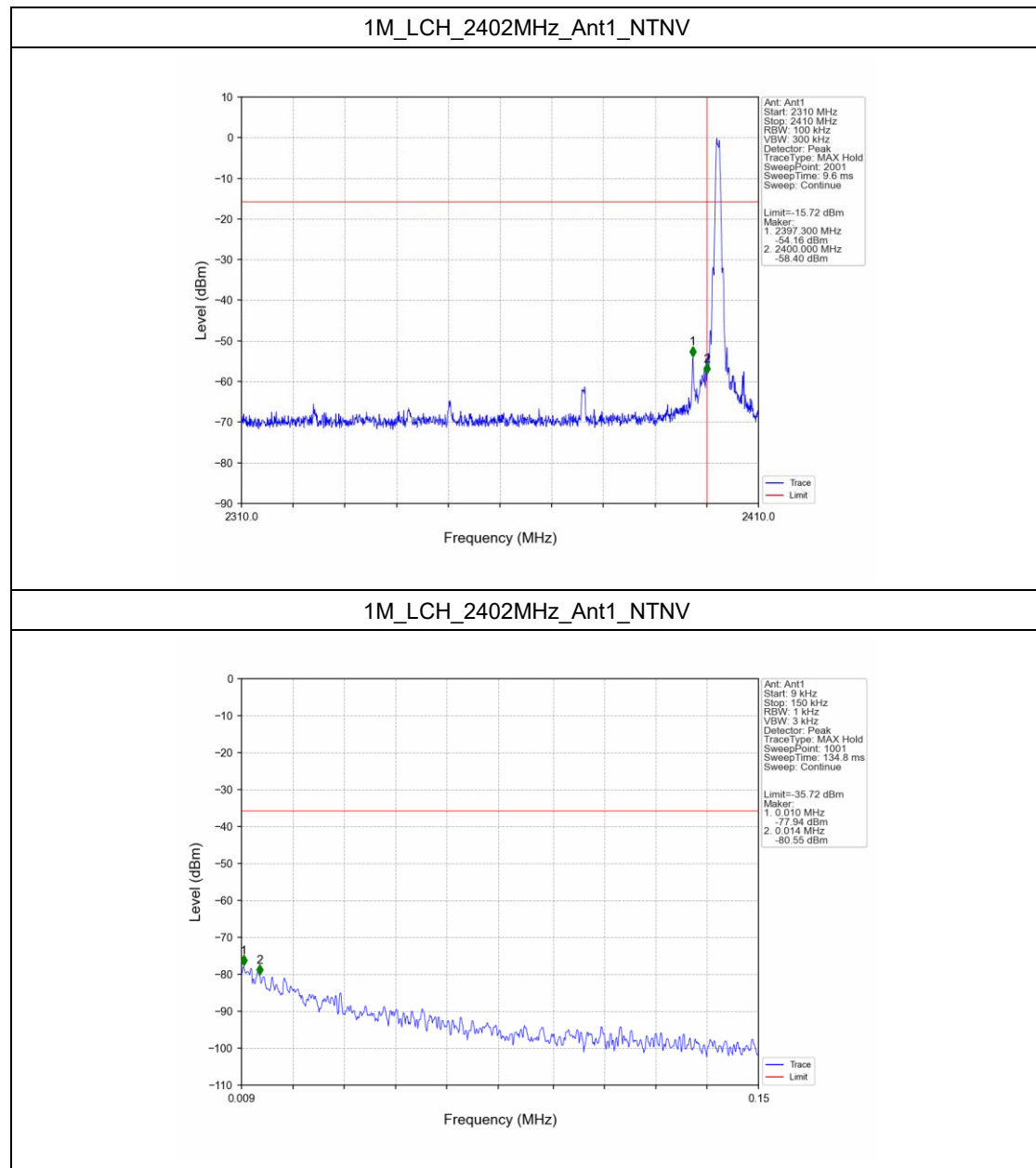
### 5.2.1 Ref



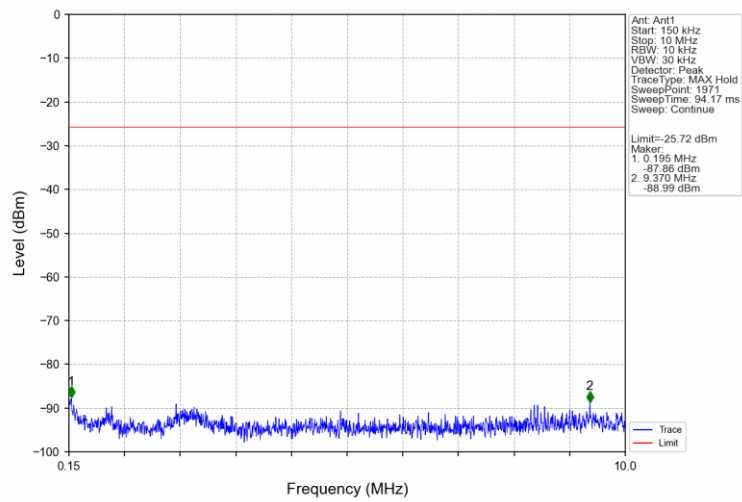




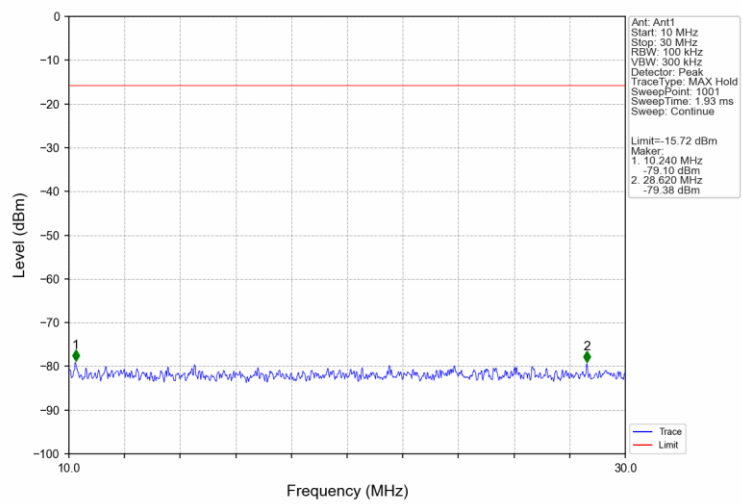
## 5.2.2 CSE



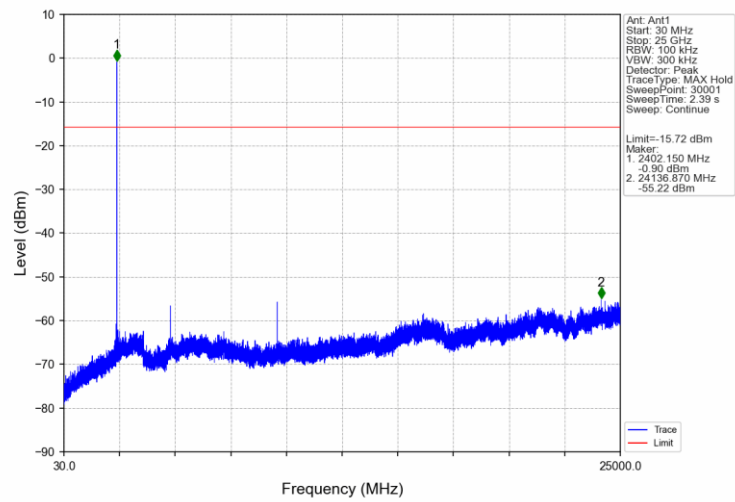
## 1M\_LCH\_2402MHz\_Ant1\_NTNV



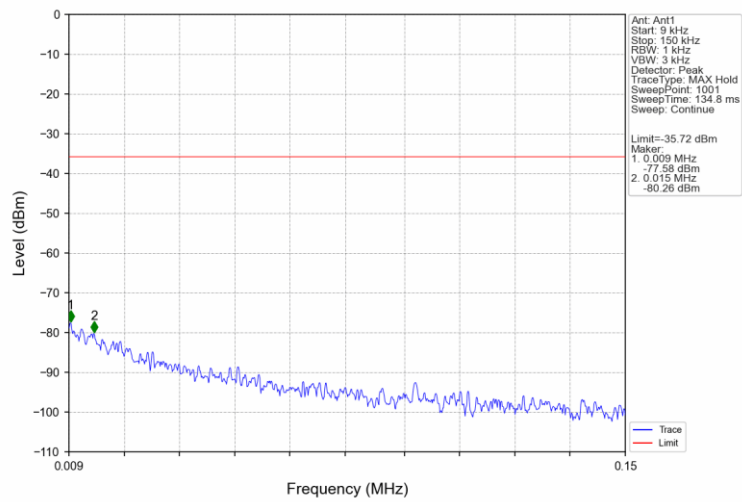
## 1M\_LCH\_2402MHz\_Ant1\_NTNV



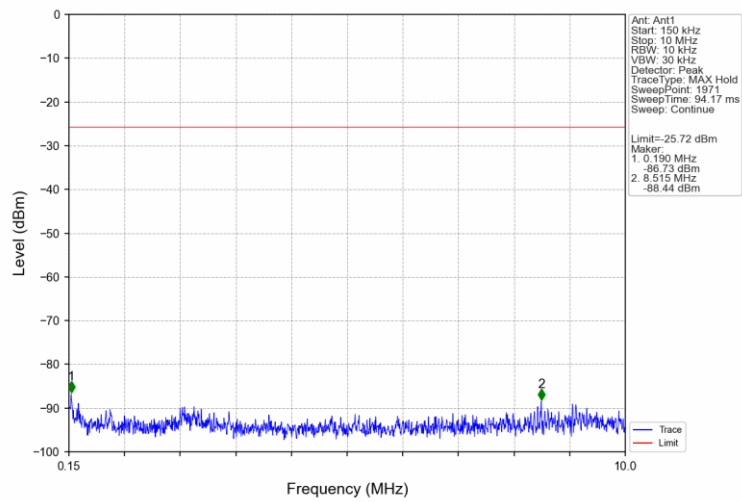
## 1M\_LCH\_2402MHz\_Ant1\_NTNV



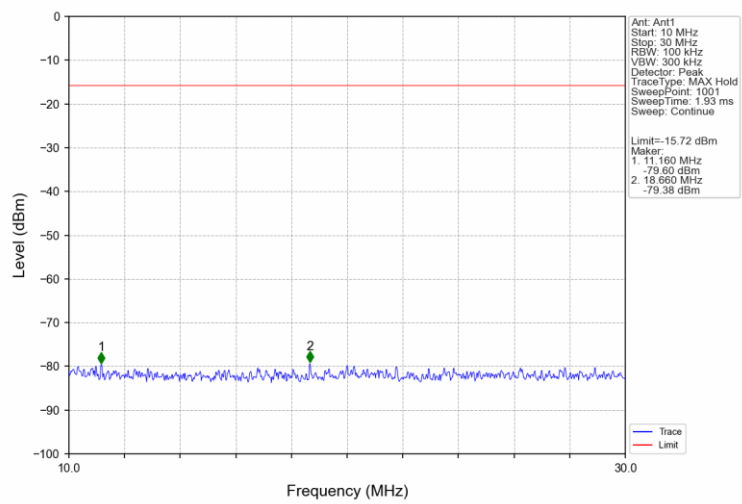
## 1M\_MCH\_2440MHz\_Ant1\_NTNV



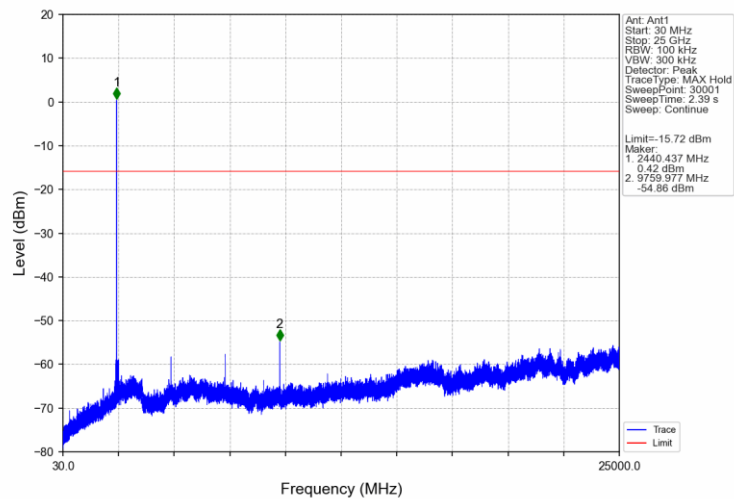
## 1M\_MCH\_2440MHz\_Ant1\_NTNV



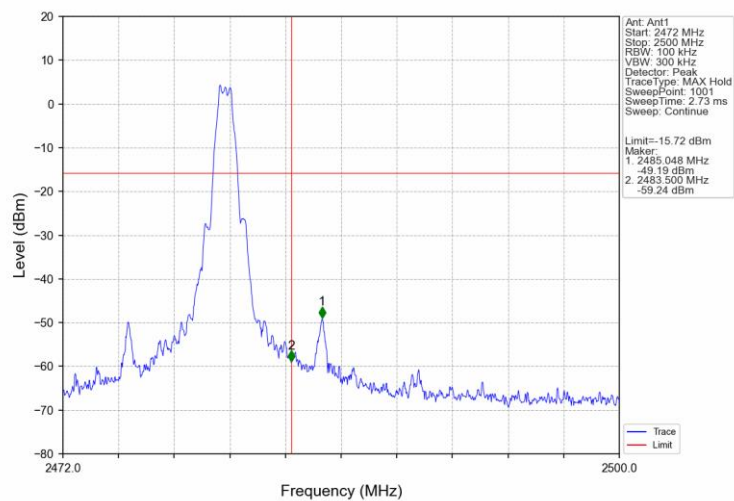
## 1M\_MCH\_2440MHz\_Ant1\_NTNV



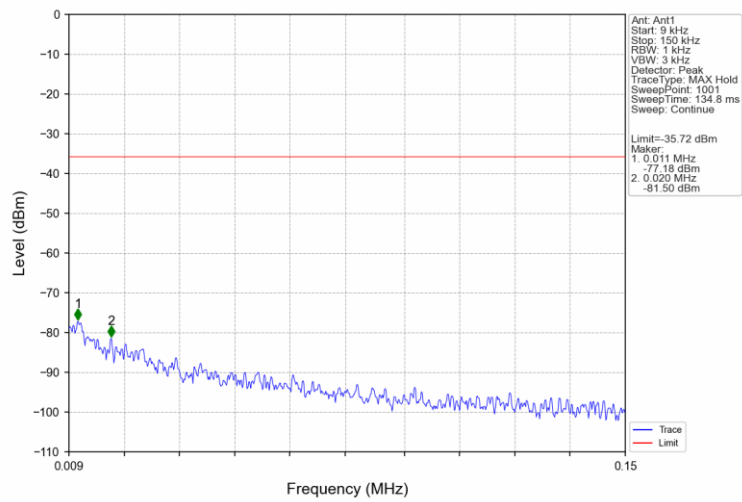
## 1M\_MCH\_2440MHz\_Ant1\_NTNV



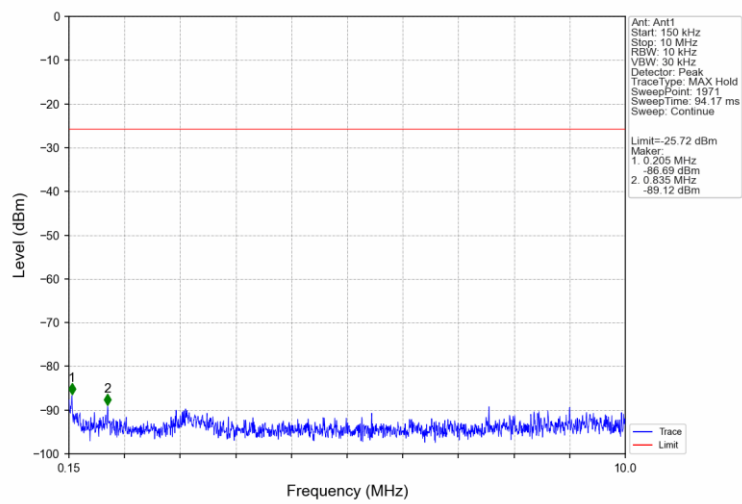
## 1M\_HCH\_2480MHz\_Ant1\_NTNV



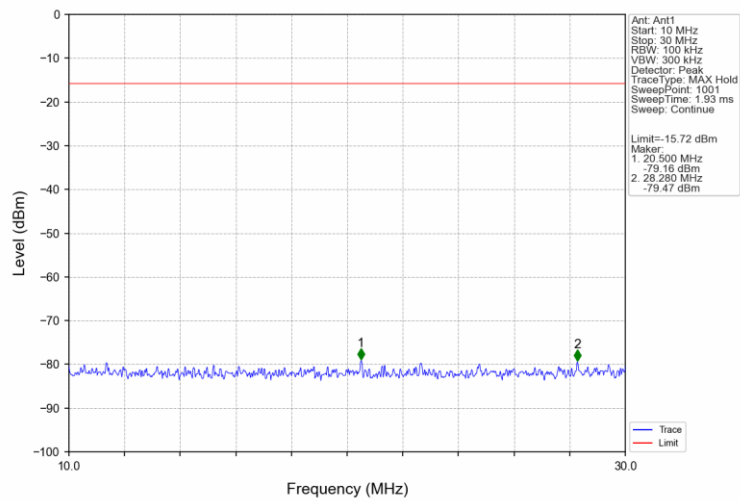
## 1M\_HCH\_2480MHz\_Ant1\_NTNV



## 1M\_HCH\_2480MHz\_Ant1\_NTNV



## 1M\_HCH\_2480MHz\_Ant1\_NTNV



## 1M\_HCH\_2480MHz\_Ant1\_NTNV

