



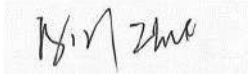
## Appendix A

### RF Test Data for BT (Conducted Measurement)

Product Name: Wireless BT Streaming Home Theater Receiver

Test Model: PT796BT

#### Environmental Conditions

|                    |                                                                                                 |
|--------------------|-------------------------------------------------------------------------------------------------|
| Temperature:       | 23.5 ° C                                                                                        |
| Relative Humidity: | 52.2%                                                                                           |
| ATM Pressure:      | 100.0 kPa                                                                                       |
| Test Engineer:     | <br>Bill Zhu  |
| Supervised by:     | <br>Li Huan |



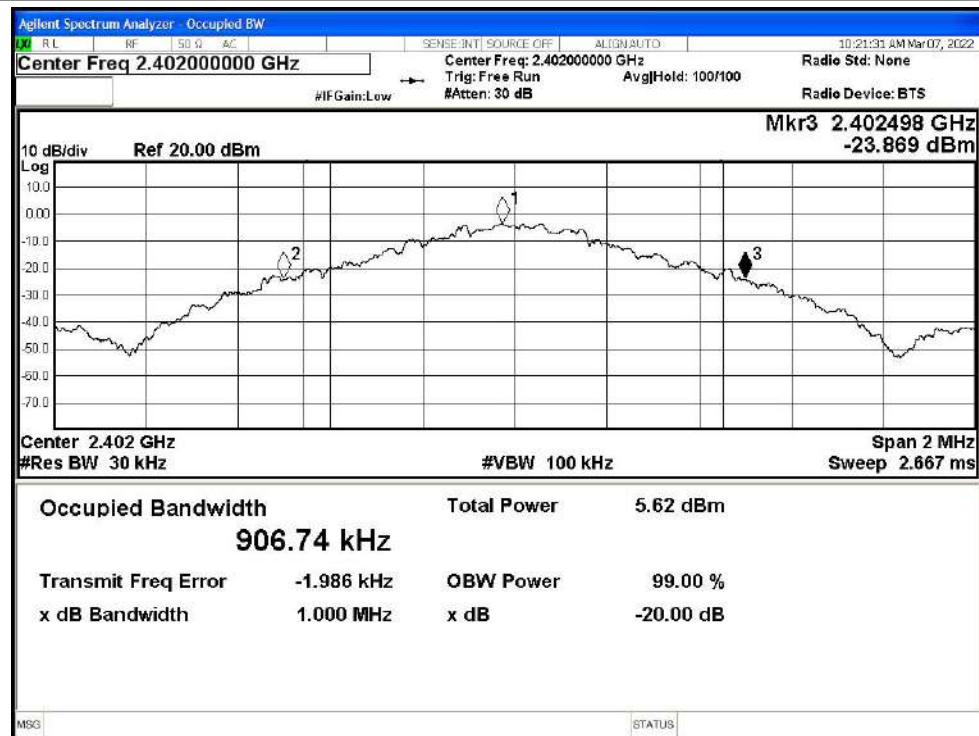
## A.1 -20dB Bandwidth

| Condition | Mode  | Frequency (MHz) | Antenna | -20 dB Bandwidth (MHz) | Limit -20 dB Bandwidth (MHz) | Verdict |
|-----------|-------|-----------------|---------|------------------------|------------------------------|---------|
| NVNT      | 1-DH5 | 2402            | Ant1    | 1                      | ---                          | Pass    |
| NVNT      | 1-DH5 | 2441            | Ant1    | 1.025                  | ---                          | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | 1.031                  | ---                          | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | 1.279                  | ---                          | Pass    |
| NVNT      | 2-DH5 | 2441            | Ant1    | 1.284                  | ---                          | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | 1.288                  | ---                          | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant1    | 1.299                  | ---                          | Pass    |
| NVNT      | 3-DH5 | 2441            | Ant1    | 1.294                  | ---                          | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant1    | 1.291                  | ---                          | Pass    |



## Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

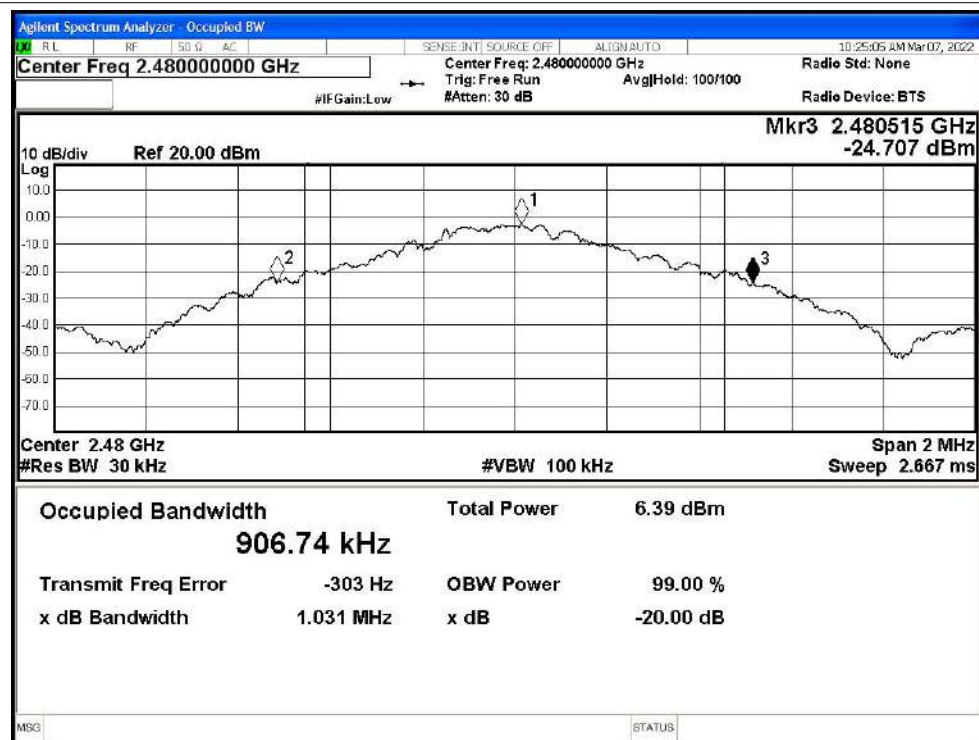


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1





## -20dB Bandwidth NVNT 1-DH5 2480MHz Ant1

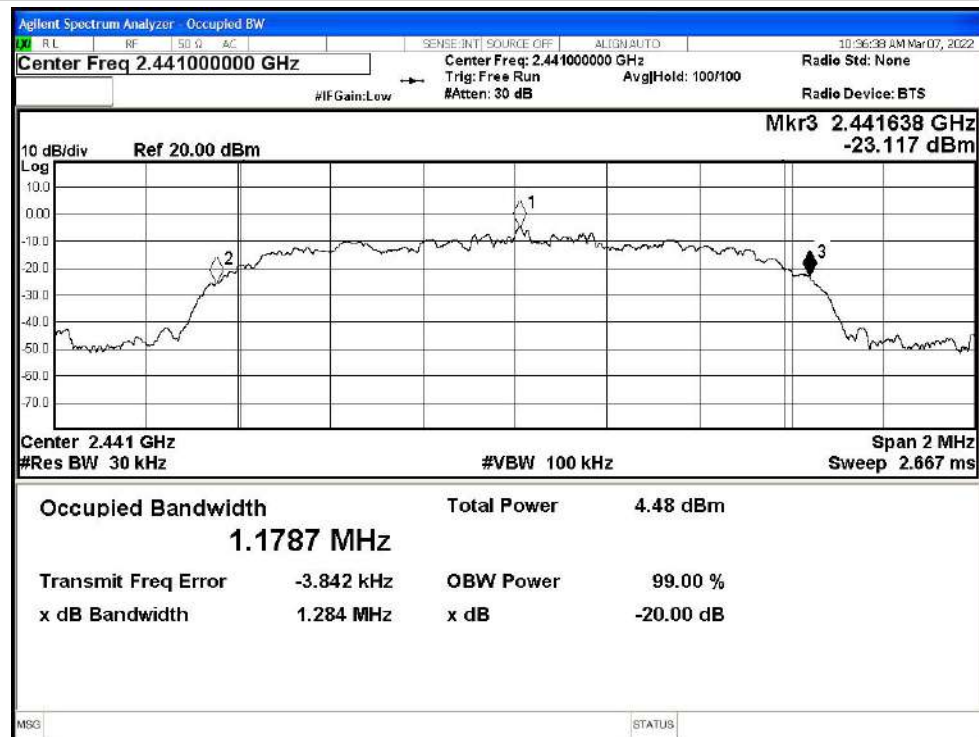


## -20dB Bandwidth NVNT 2-DH5 2402MHz Ant1





## -20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

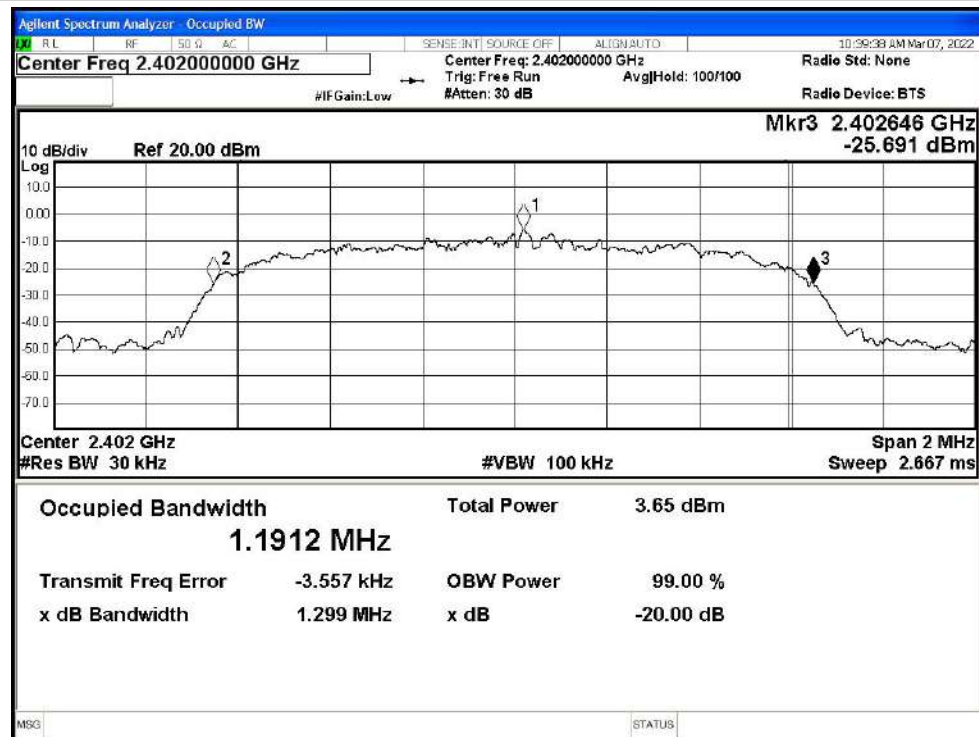


## -20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

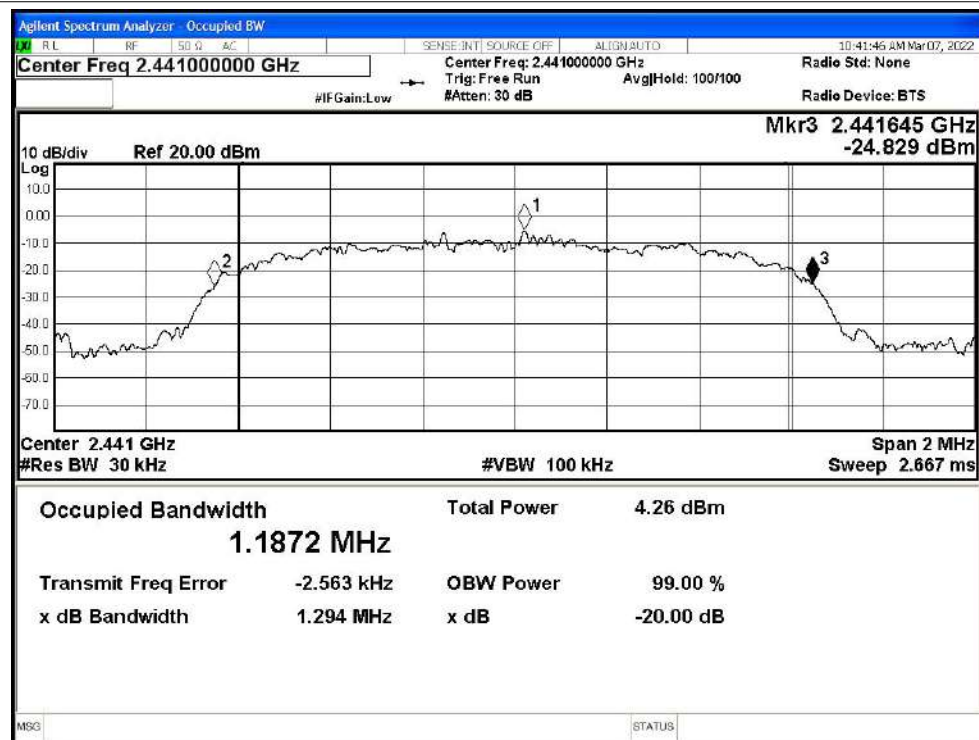




## -20dB Bandwidth NVNT 3-DH5 2402MHz Ant1

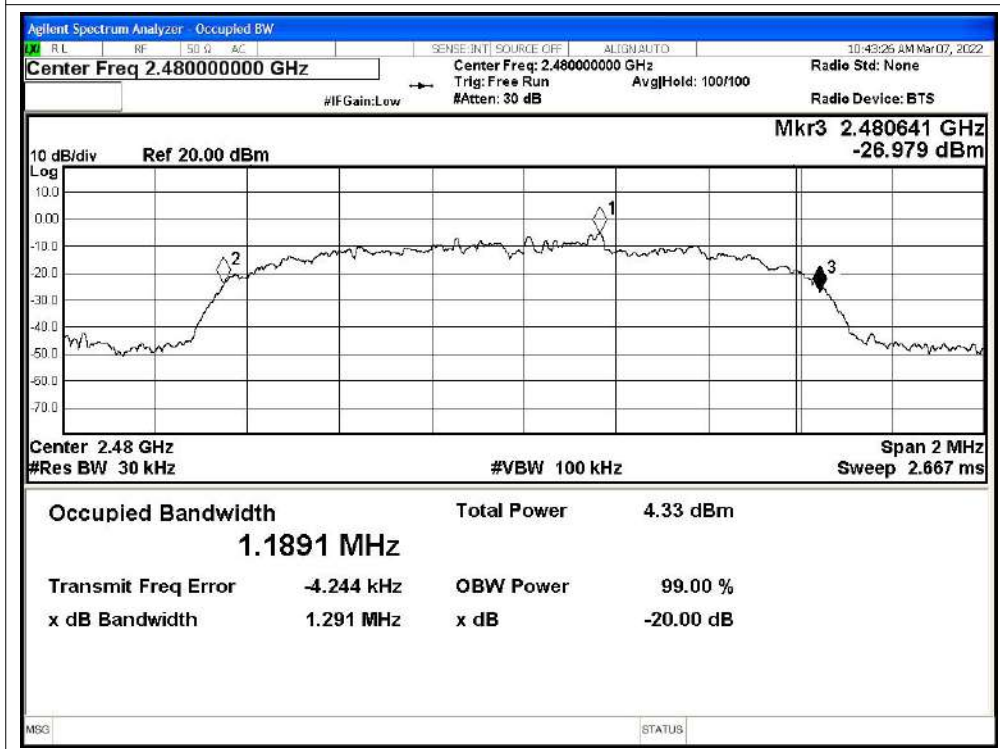


## -20dB Bandwidth NVNT 3-DH5 2441MHz Ant1





## -20dB Bandwidth NVNT 3-DH5 2480MHz Ant1





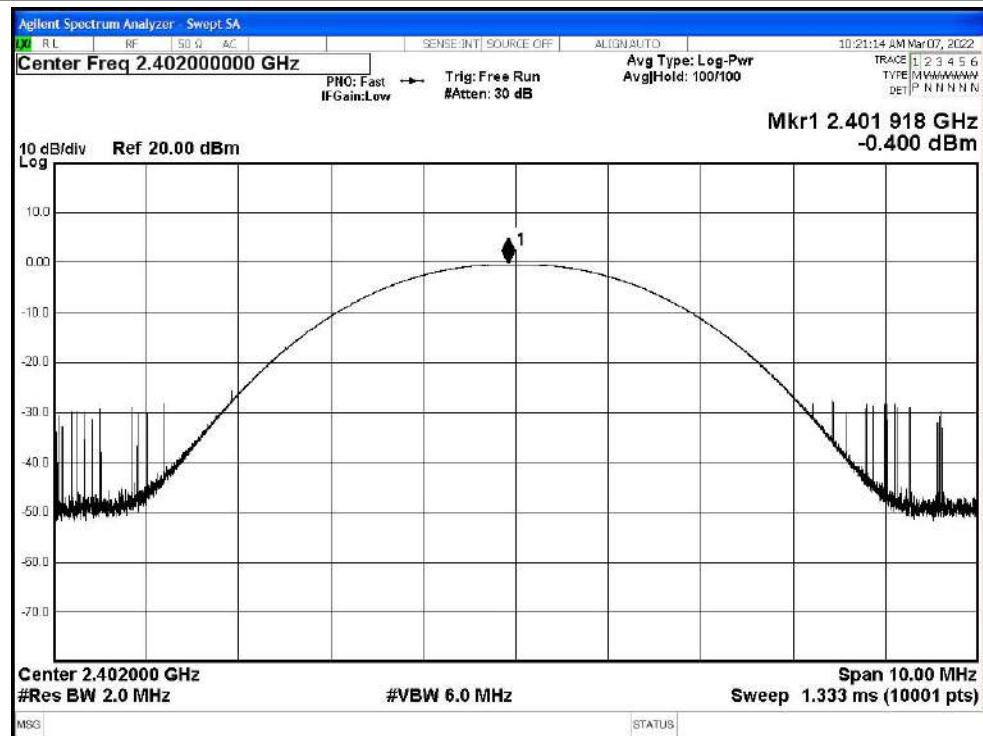
## A.2 Maximum Peak Conducted Output Power

| Condition | Mode  | Frequency<br>(MHz) | Antenna | Total Power<br>(dBm) | Limit<br>(dBm) | Verdict |
|-----------|-------|--------------------|---------|----------------------|----------------|---------|
| NVNT      | 1-DH5 | 2402               | Ant1    | -0.4                 | $\leq 20.97$   | Pass    |
| NVNT      | 1-DH5 | 2441               | Ant1    | 0.31                 | $\leq 20.97$   | Pass    |
| NVNT      | 1-DH5 | 2480               | Ant1    | 0.2                  | $\leq 20.97$   | Pass    |
| NVNT      | 2-DH5 | 2402               | Ant1    | -0.65                | $\leq 20.97$   | Pass    |
| NVNT      | 2-DH5 | 2441               | Ant1    | 0.1                  | $\leq 20.97$   | Pass    |
| NVNT      | 2-DH5 | 2480               | Ant1    | -0.04                | $\leq 20.97$   | Pass    |
| NVNT      | 3-DH5 | 2402               | Ant1    | -0.57                | $\leq 20.97$   | Pass    |
| NVNT      | 3-DH5 | 2441               | Ant1    | 0.2                  | $\leq 20.97$   | Pass    |
| NVNT      | 3-DH5 | 2480               | Ant1    | 0.07                 | $\leq 20.97$   | Pass    |

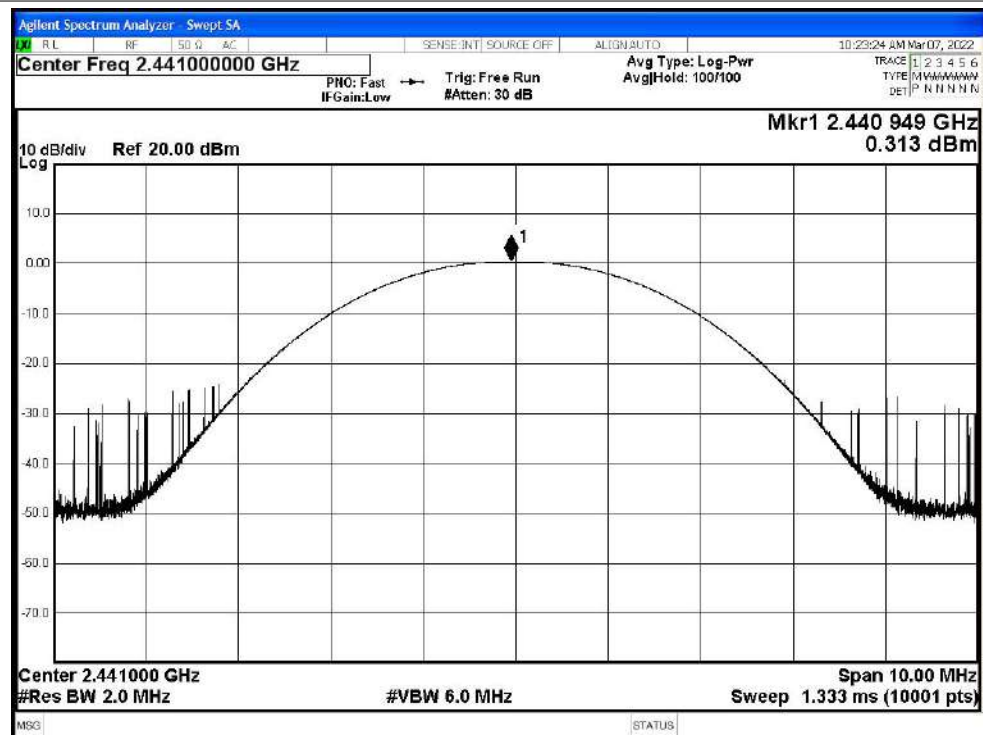


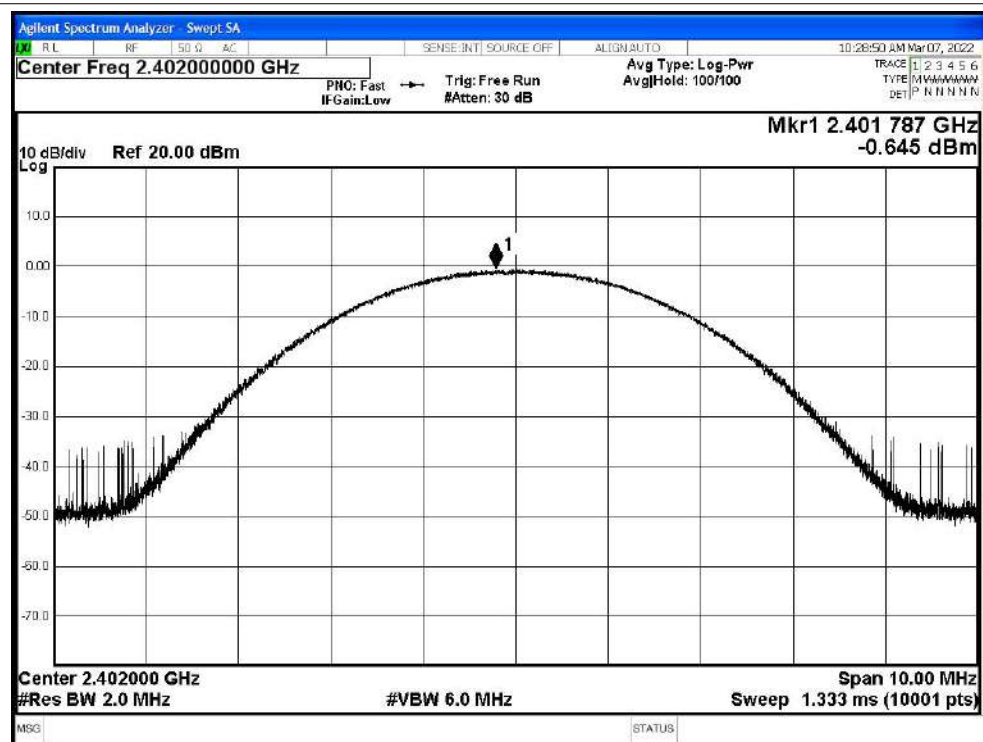
## Test Graphs

## Power NVNT 1-DH5 2402MHz Ant1



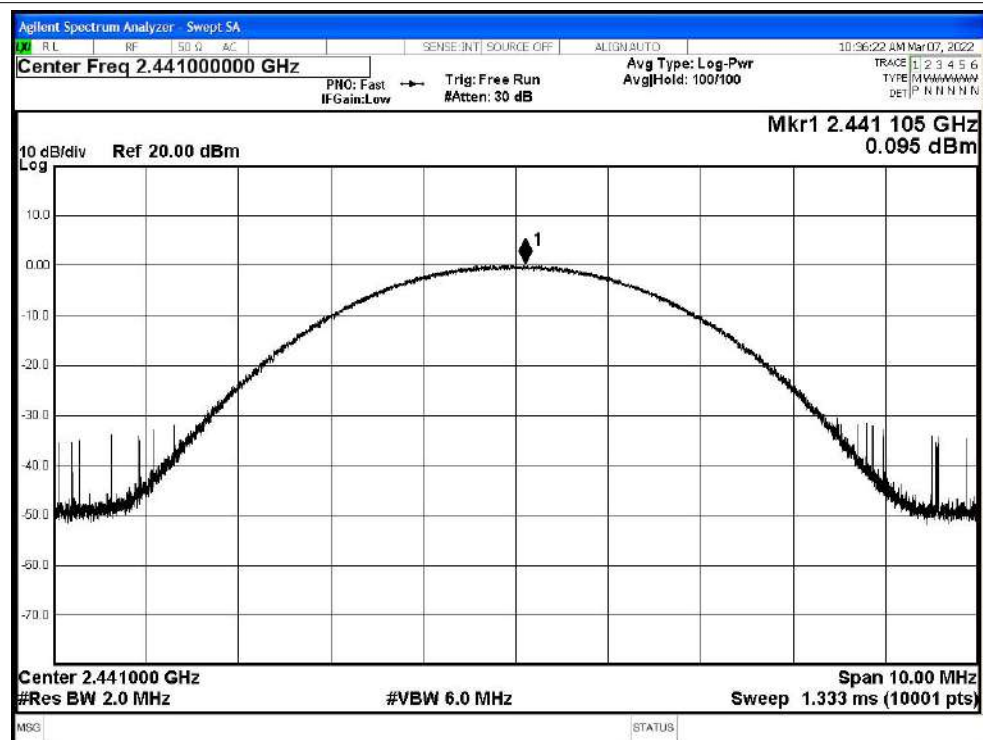
## Power NVNT 1-DH5 2441MHz Ant1



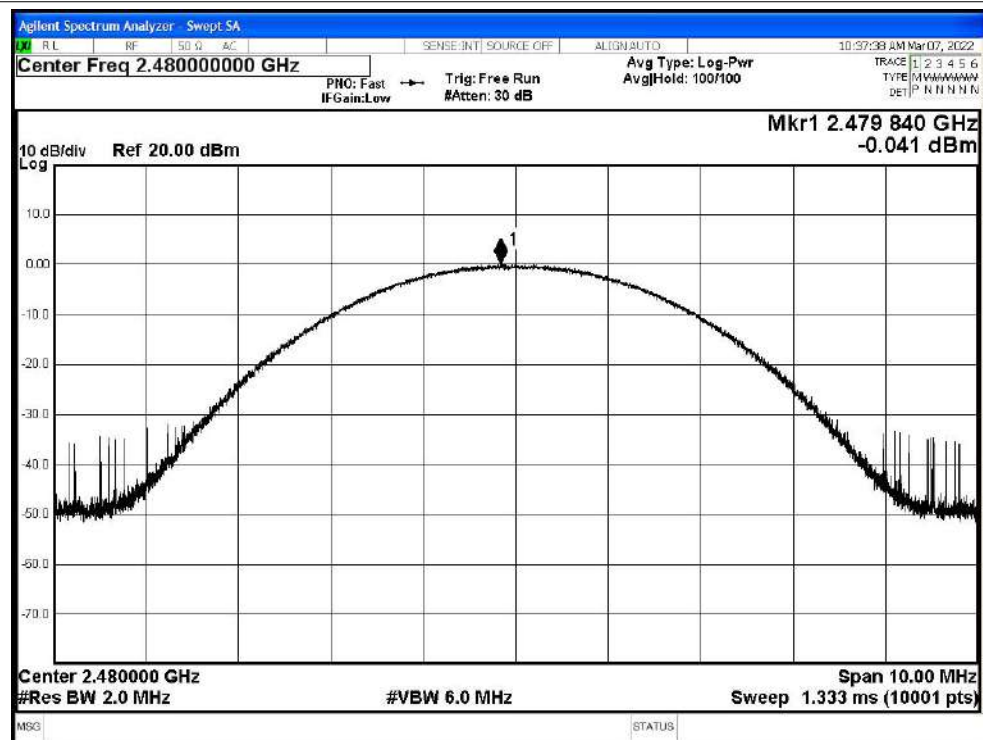




Power NVNT 2-DH5 2441MHz Ant1

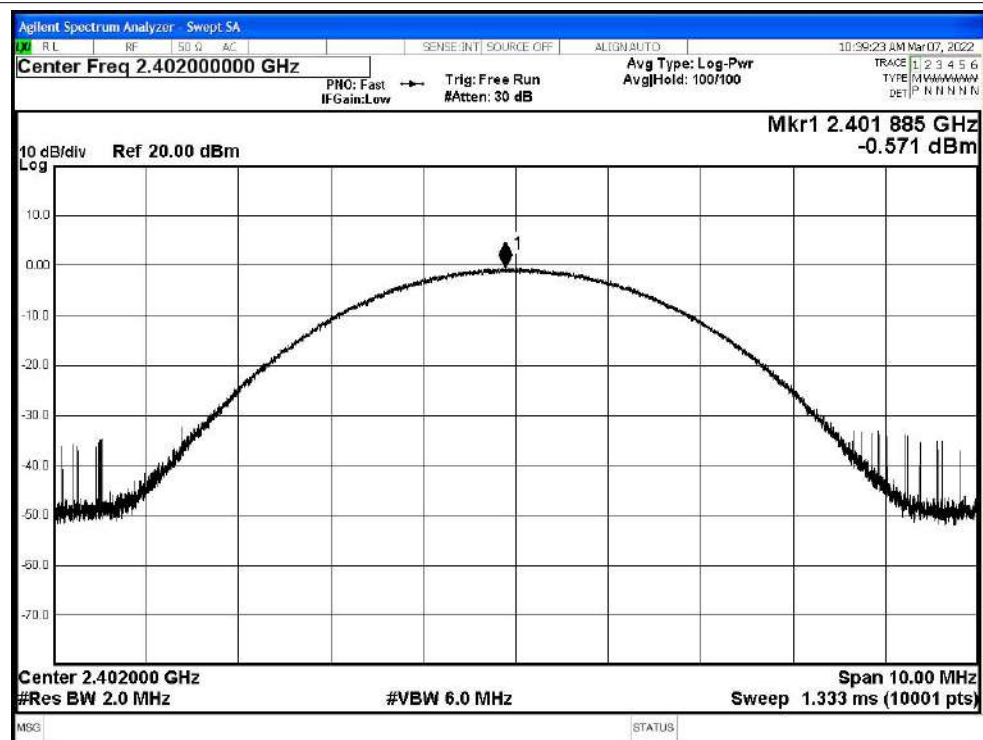


Power NVNT 2-DH5 2480MHz Ant1

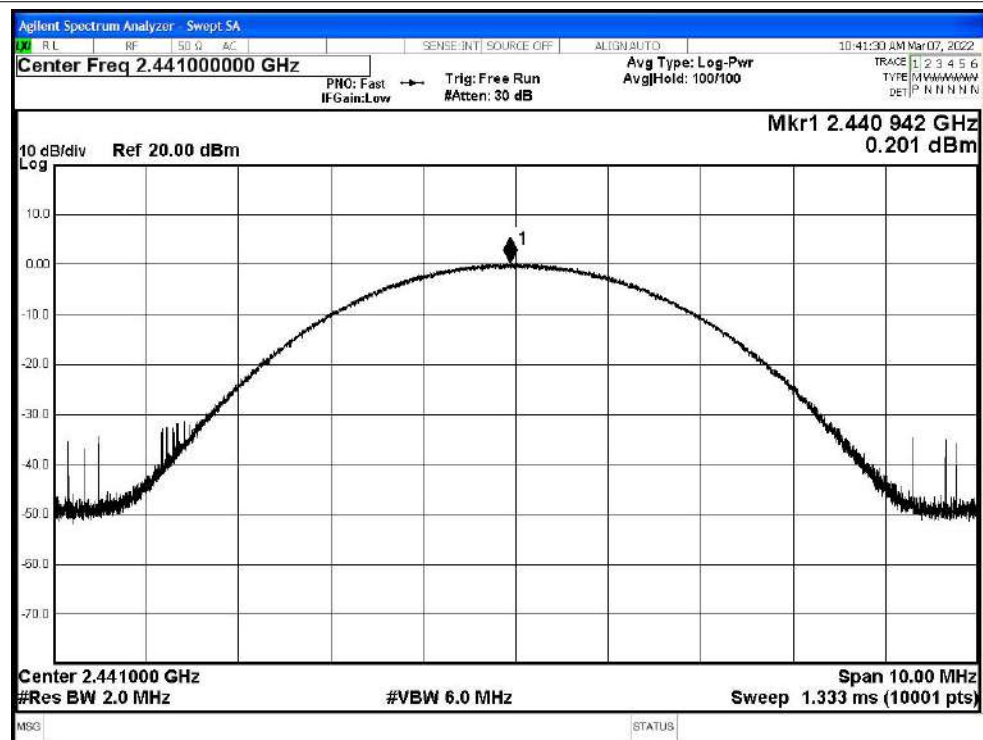


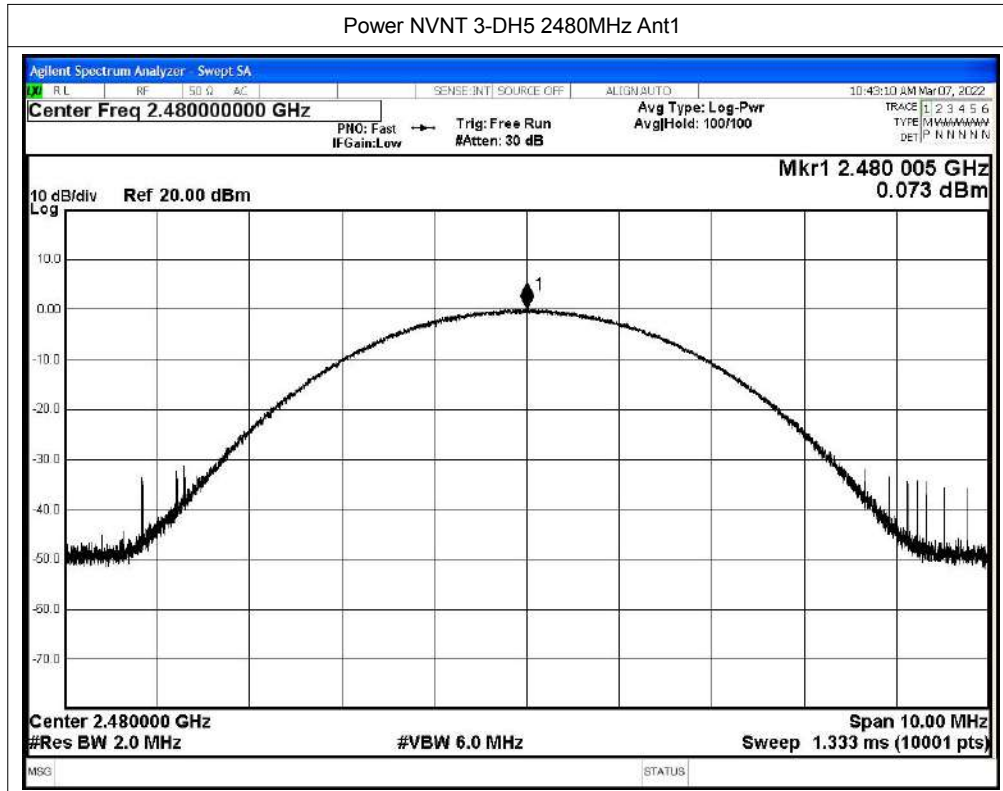


Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1







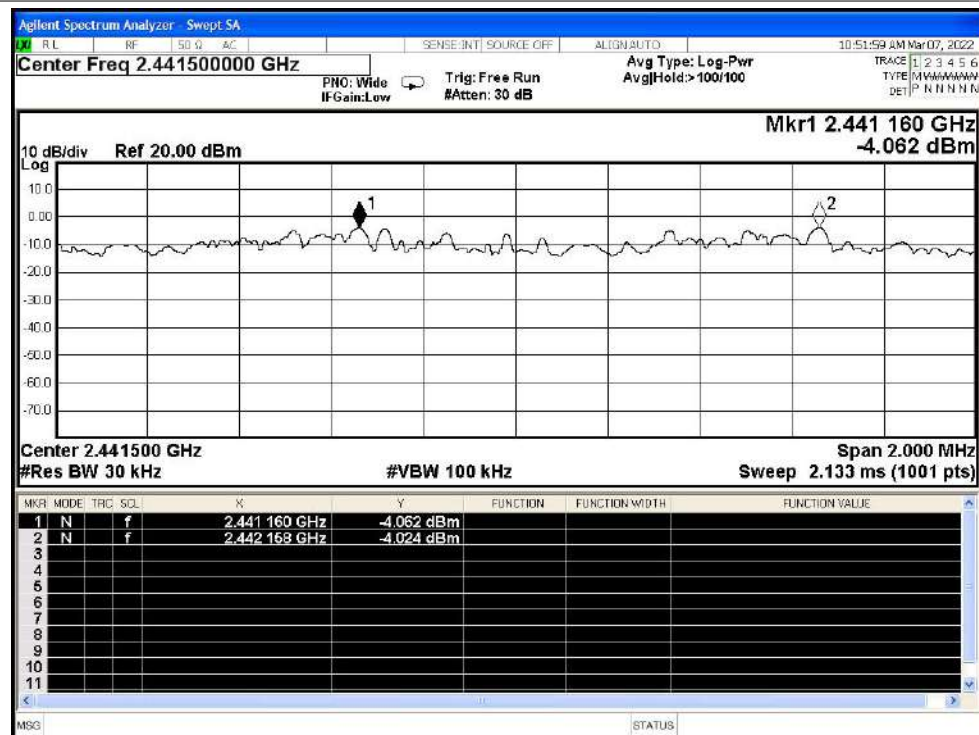
## A.3 Carrier Frequencies Separation

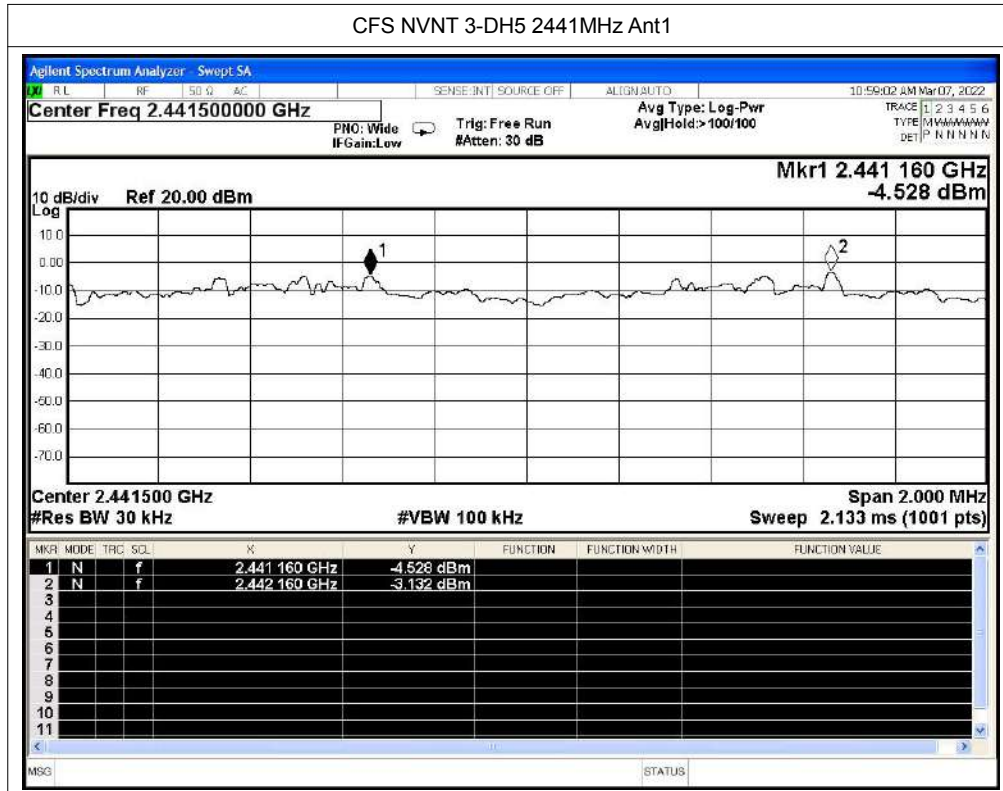
| Condition | Mode  | Antenna | Hopping Freq1 (MHz) | Hopping Freq2 (MHz) | HFS (MHz) | Limit (MHz)  | Verdict |
|-----------|-------|---------|---------------------|---------------------|-----------|--------------|---------|
| NVNT      | 1-DH5 | Ant1    | 2440.968            | 2441.964            | 0.996     | $\geq 0.683$ | Pass    |
| NVNT      | 2-DH5 | Ant1    | 2441.16             | 2442.158            | 0.998     | $\geq 0.856$ | Pass    |
| NVNT      | 3-DH5 | Ant1    | 2441.16             | 2442.16             | 1         | $\geq 0.863$ | Pass    |

## CFS NVNT 1-DH5 2441MHz Ant1



## CFS NVNT 2-DH5 2441MHz Ant1







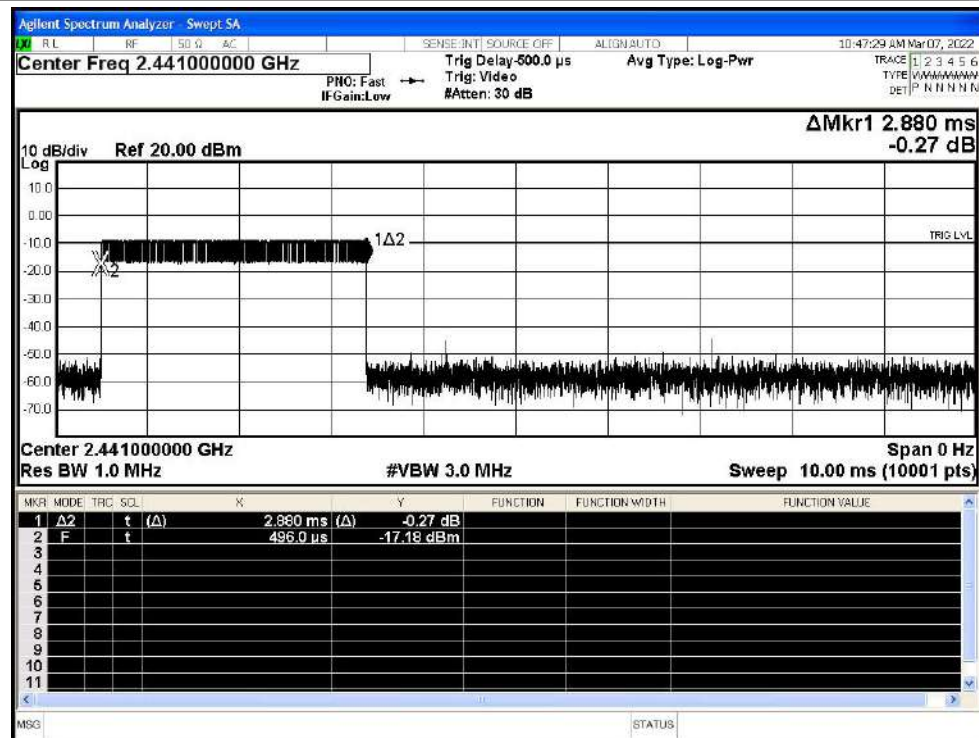
## A.4 Dwell Time

| Condition | Mode  | Frequency<br>(MHz) | Antenna | Pulse Time<br>(ms) | Total Dwell Time<br>(ms) | Burst<br>Count | Period Time<br>(ms) | Limit<br>(ms) | Verdict |
|-----------|-------|--------------------|---------|--------------------|--------------------------|----------------|---------------------|---------------|---------|
| NVNT      | 1-DH5 | 2441               | Ant1    | 2.88               | 308.0                    | 106.67         | 31600               | ≤400          | Pass    |
| NVNT      | 2-DH5 | 2441               | Ant1    | 2.885              | 308.0                    | 106.67         | 31600               | ≤400          | Pass    |
| NVNT      | 3-DH5 | 2441               | Ant1    | 2.886              | 308.0                    | 106.67         | 31600               | ≤400          | Pass    |

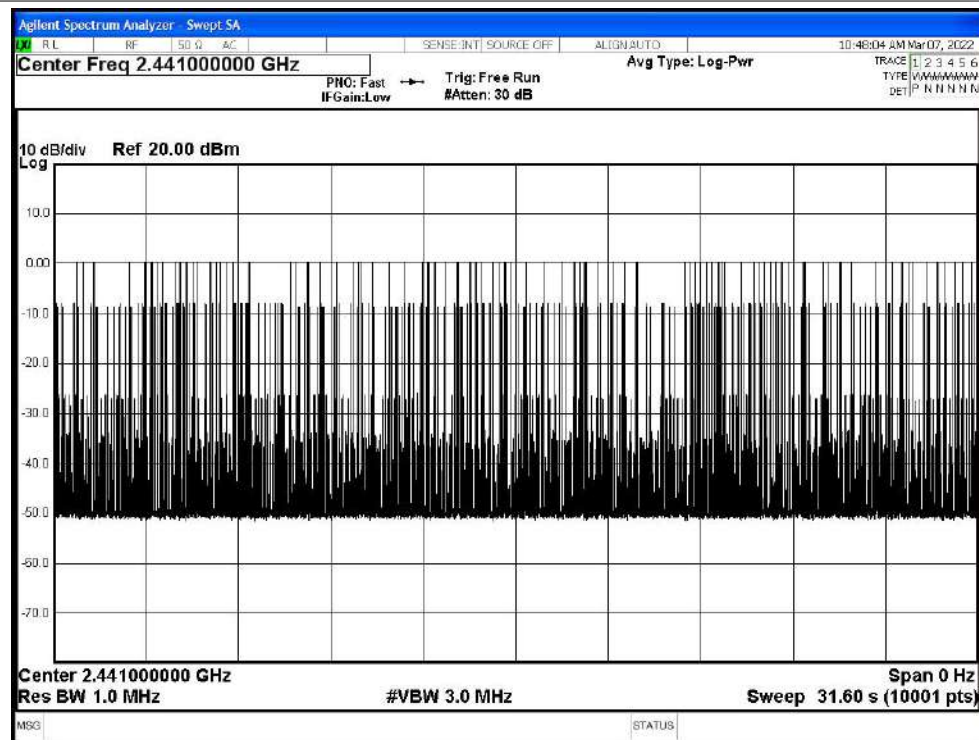


## Test Graphs

## Dwell NVNT 1-DH5 2441MHz Ant1 One Burst

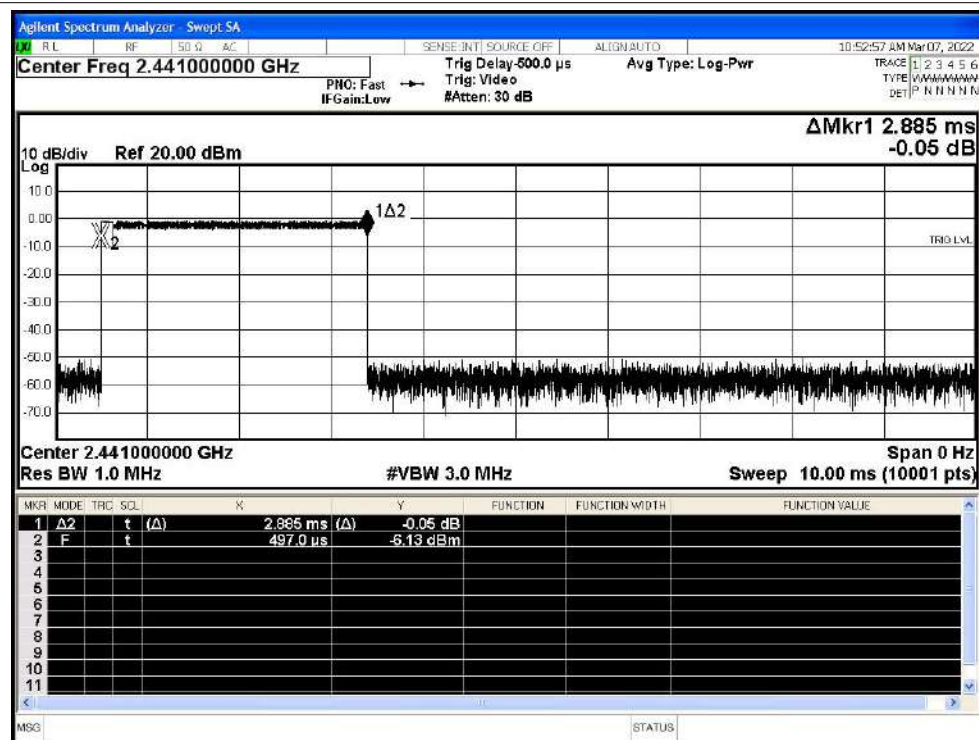


## Dwell NVNT 1-DH5 2441MHz Ant1 Accumulated

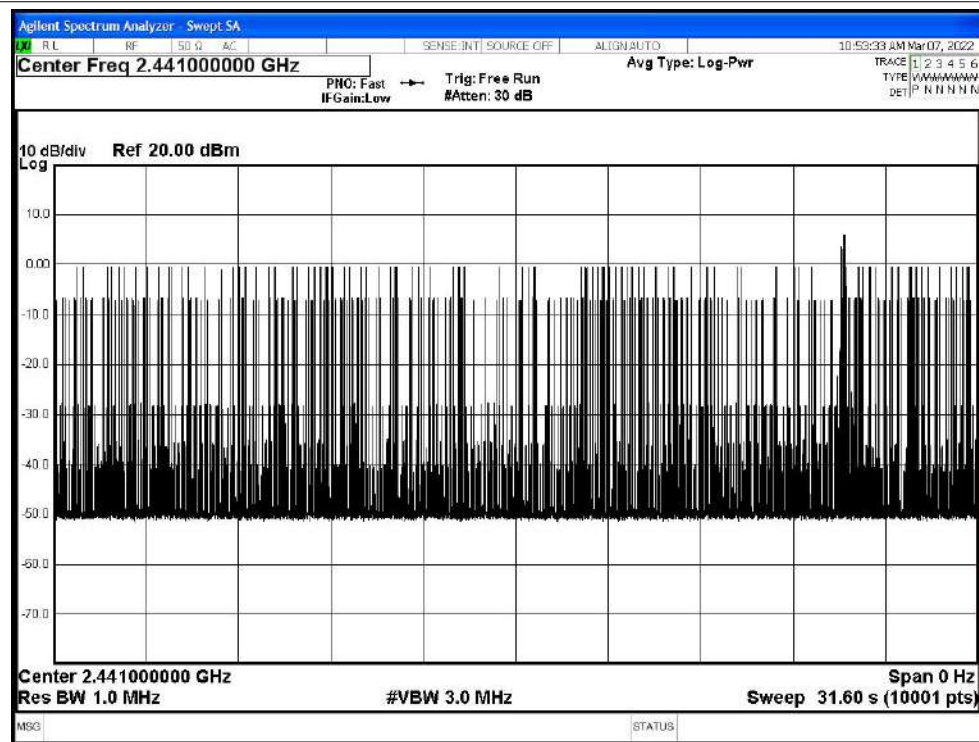




## Dwell NVNT 2-DH5 2441MHz Ant1 One Burst

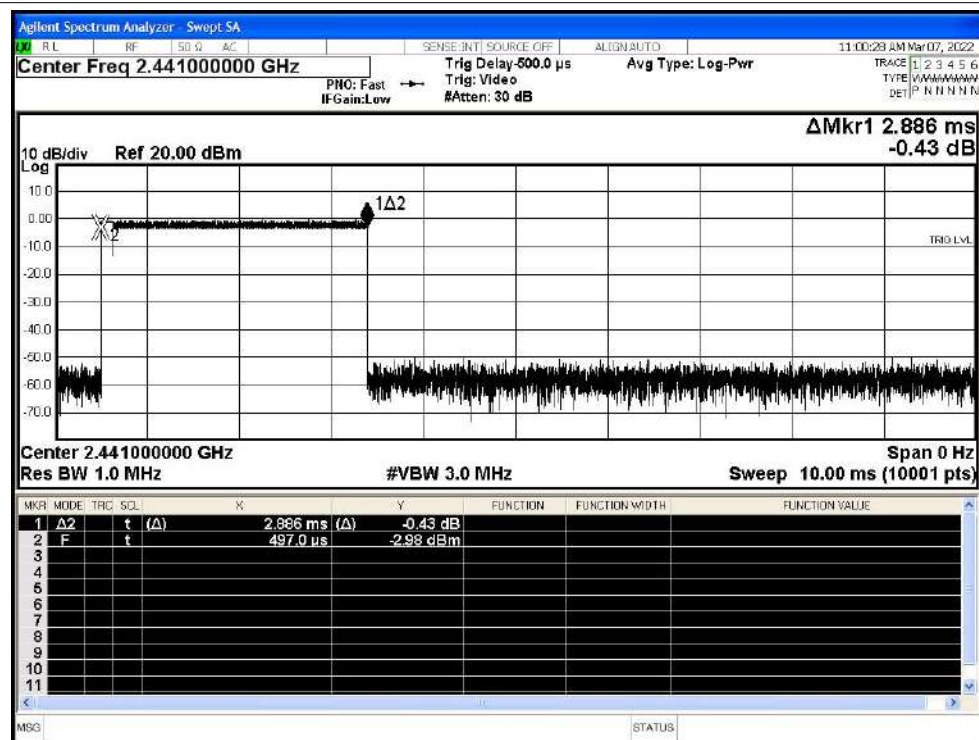


## Dwell NVNT 2-DH5 2441MHz Ant1 Accumulated

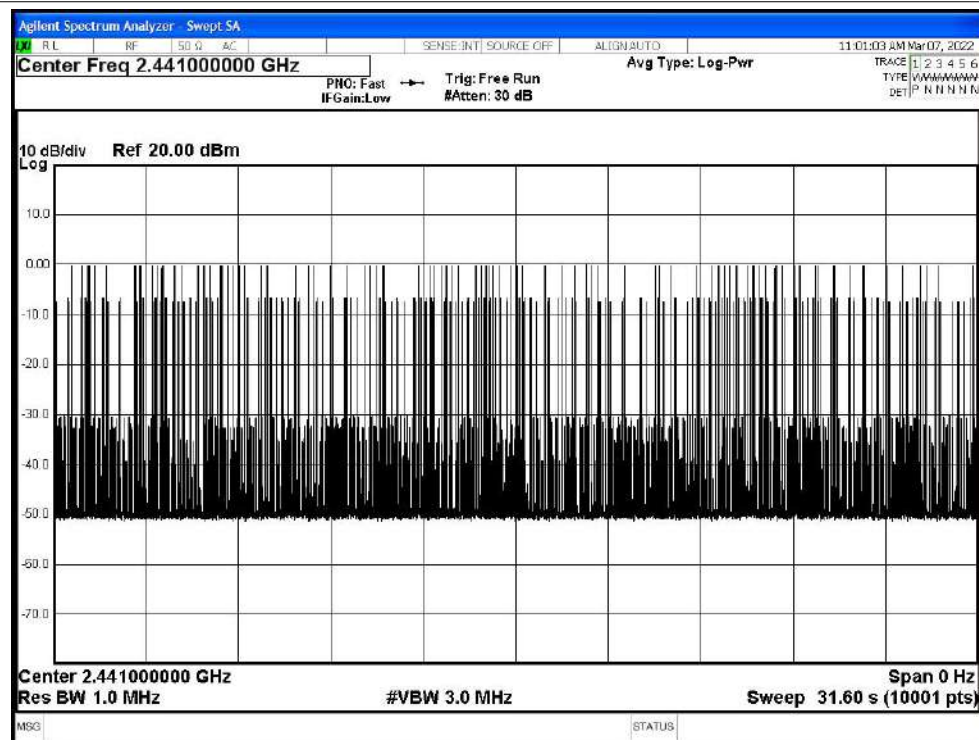




## Dwell NVNT 3-DH5 2441MHz Ant1 One Burst



## Dwell NVNT 3-DH5 2441MHz Ant1 Accumulated





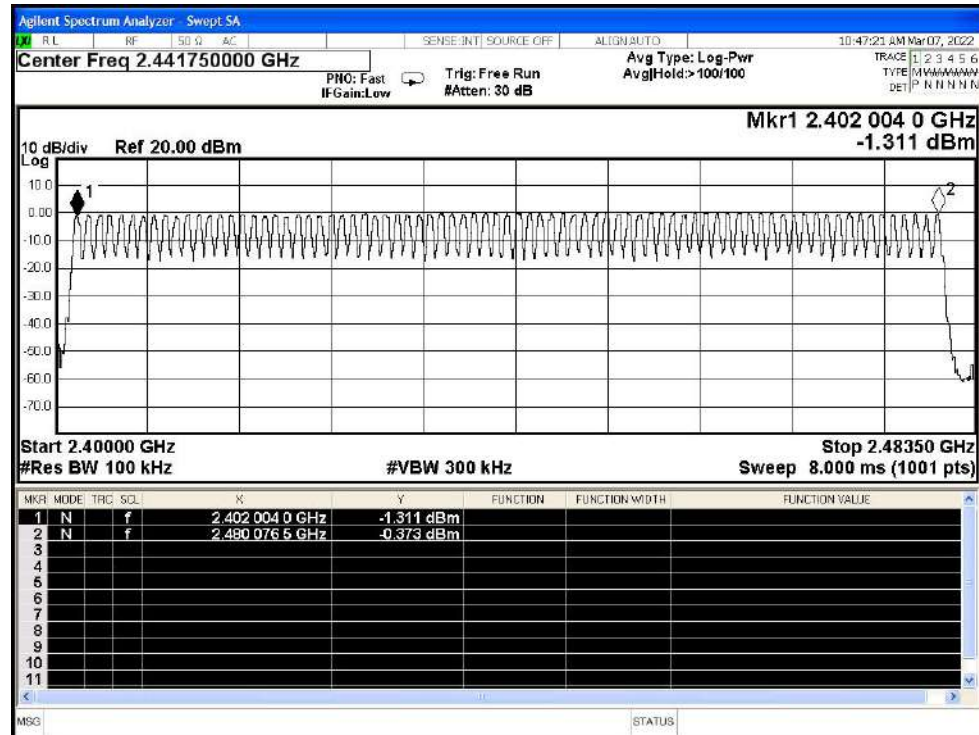
## A.5 Number of Hopping Channel

| Condition | Mode  | Antenna | Hopping Number | Limit     | Verdict |
|-----------|-------|---------|----------------|-----------|---------|
| NVNT      | 1-DH5 | Ant1    | 79             | $\geq 15$ | Pass    |
| NVNT      | 2-DH5 | Ant1    | 79             | $\geq 15$ | Pass    |
| NVNT      | 3-DH5 | Ant1    | 79             | $\geq 15$ | Pass    |

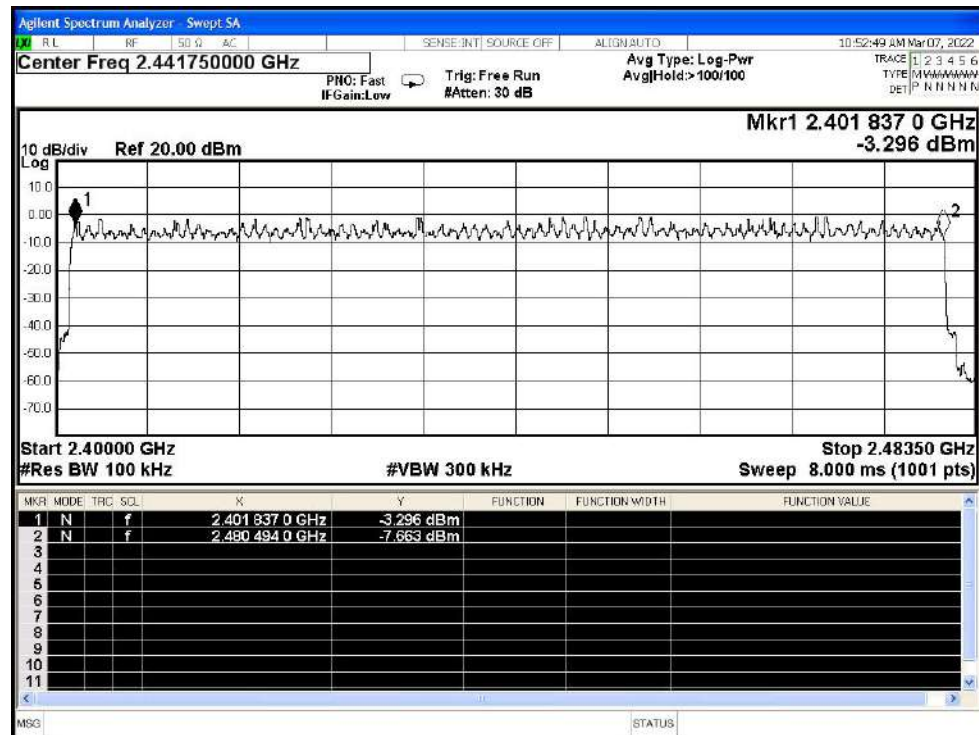


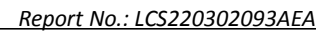
## Test Graphs

Hopping No. NVNT 1-DH5 2441MHz Ant1



Hopping No. NVNT 2-DH5 2441MHz Ant1







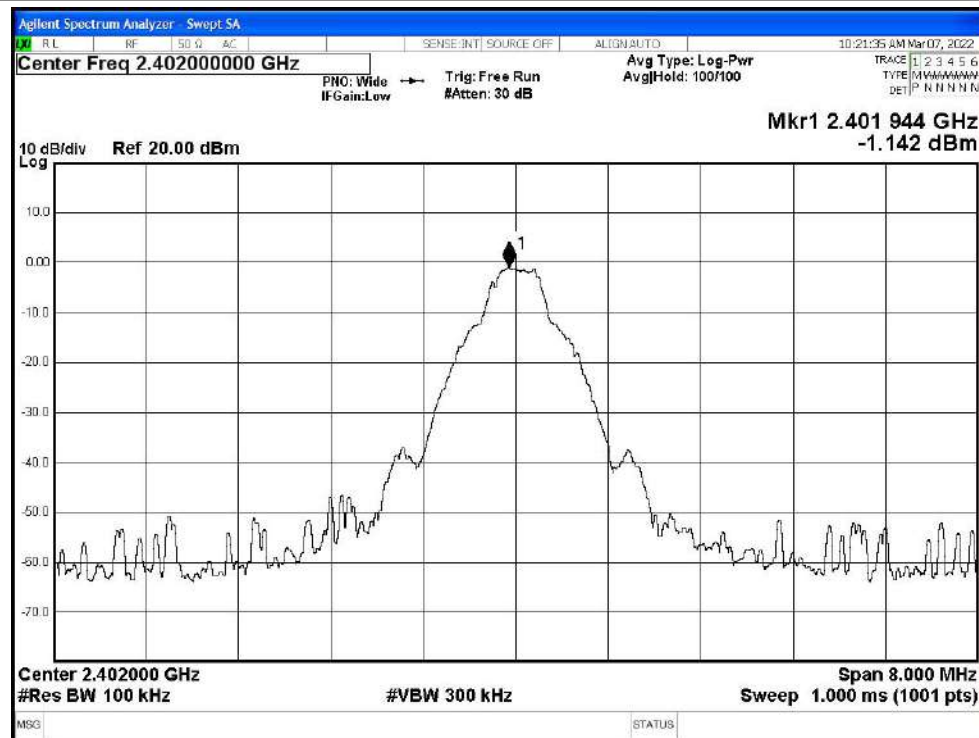
## A.6 Band Edge

| Condition | Mode  | Frequency (MHz) | Antenna | Hopping Mode | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|-------|-----------------|---------|--------------|-----------------|-------------|---------|
| NVNT      | 1-DH5 | 2402            | Ant1    | No-Hopping   | -50.18          | $\leq -20$  | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | No-Hopping   | -56.63          | $\leq -20$  | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | No-Hopping   | -49.7           | $\leq -20$  | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | No-Hopping   | -53.42          | $\leq -20$  | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant1    | No-Hopping   | -51             | $\leq -20$  | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant1    | No-Hopping   | -53.73          | $\leq -20$  | Pass    |

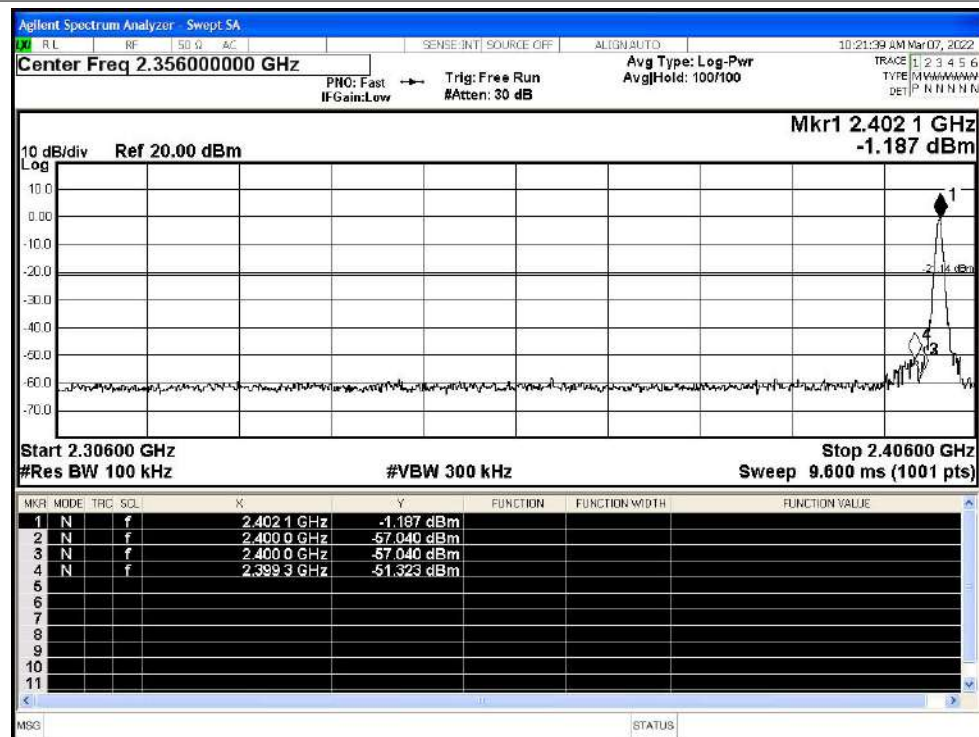


## Test Graphs

## Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref

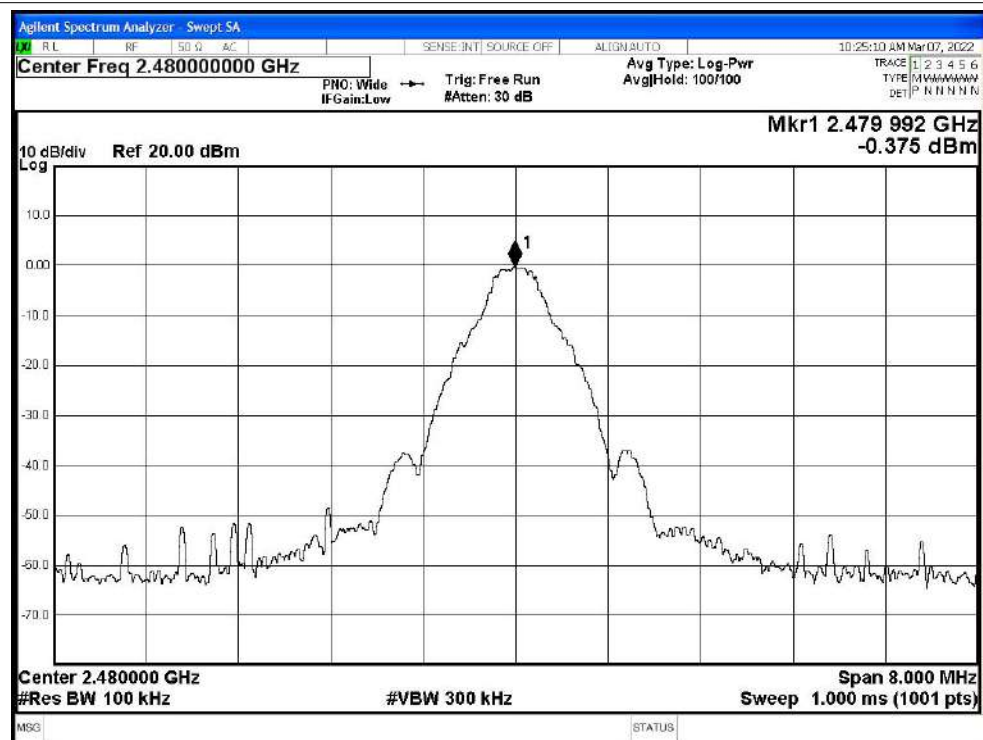


## Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

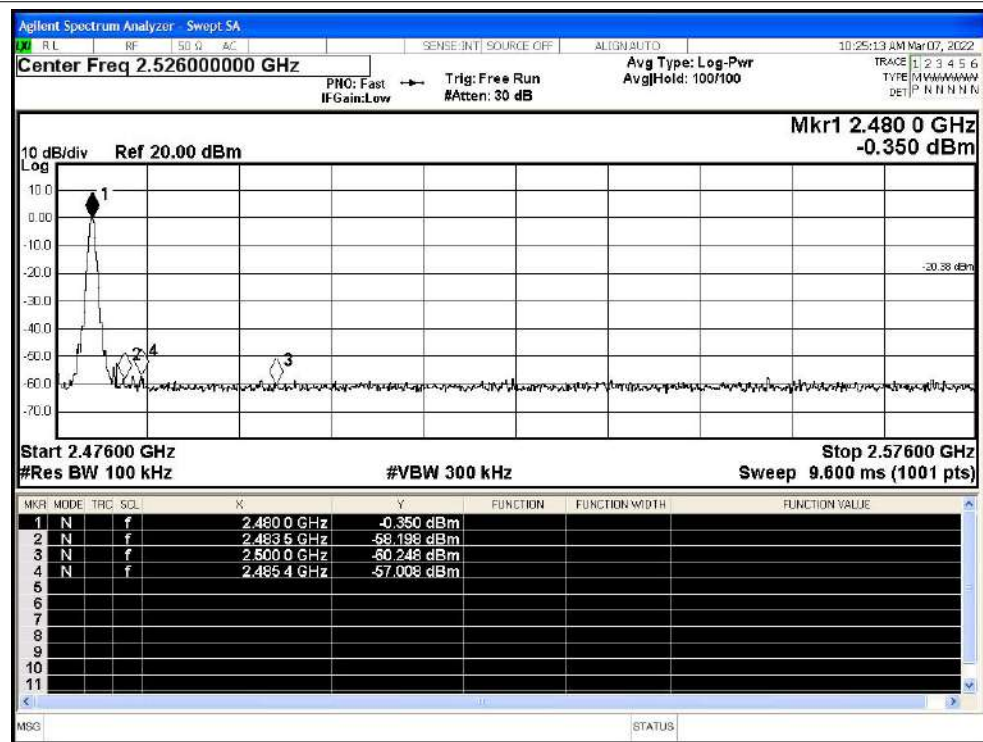




## Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

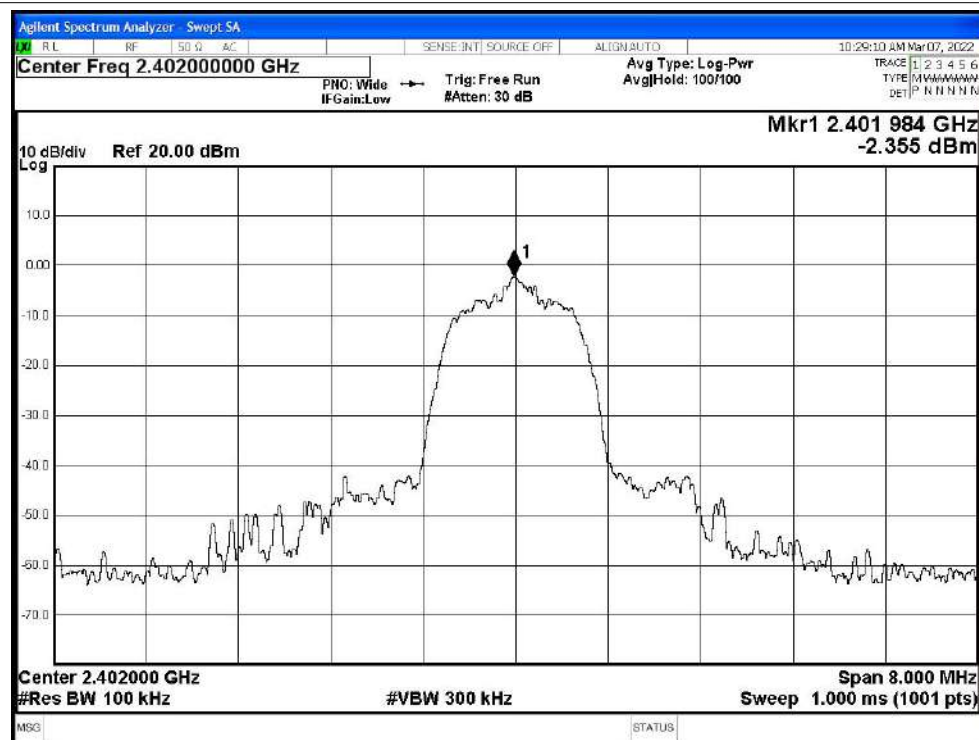


## Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

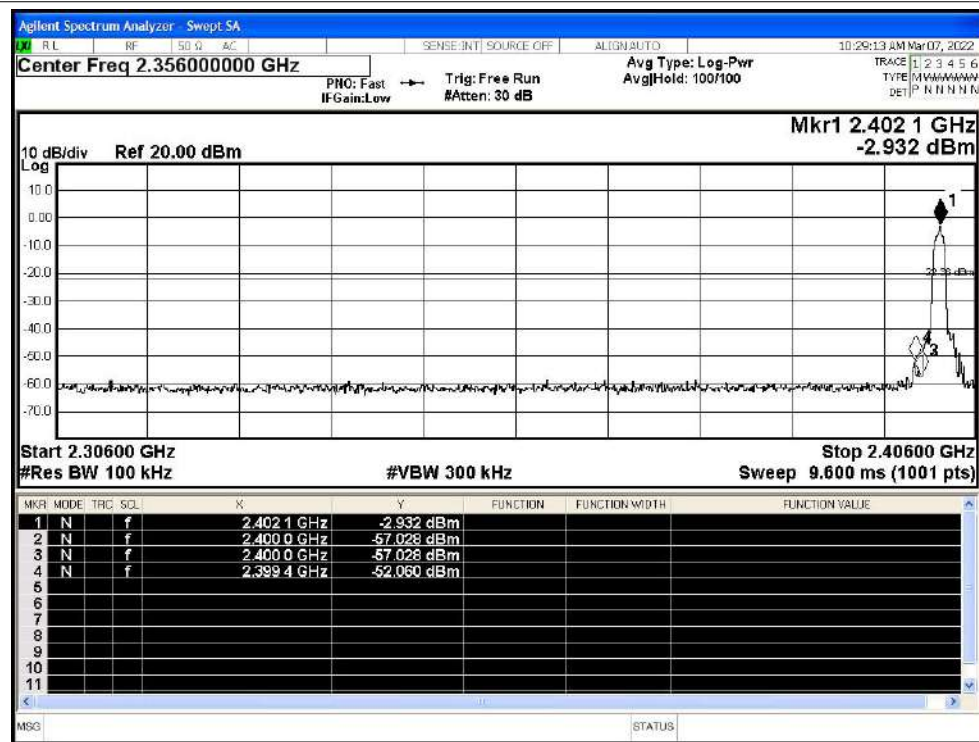




## Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

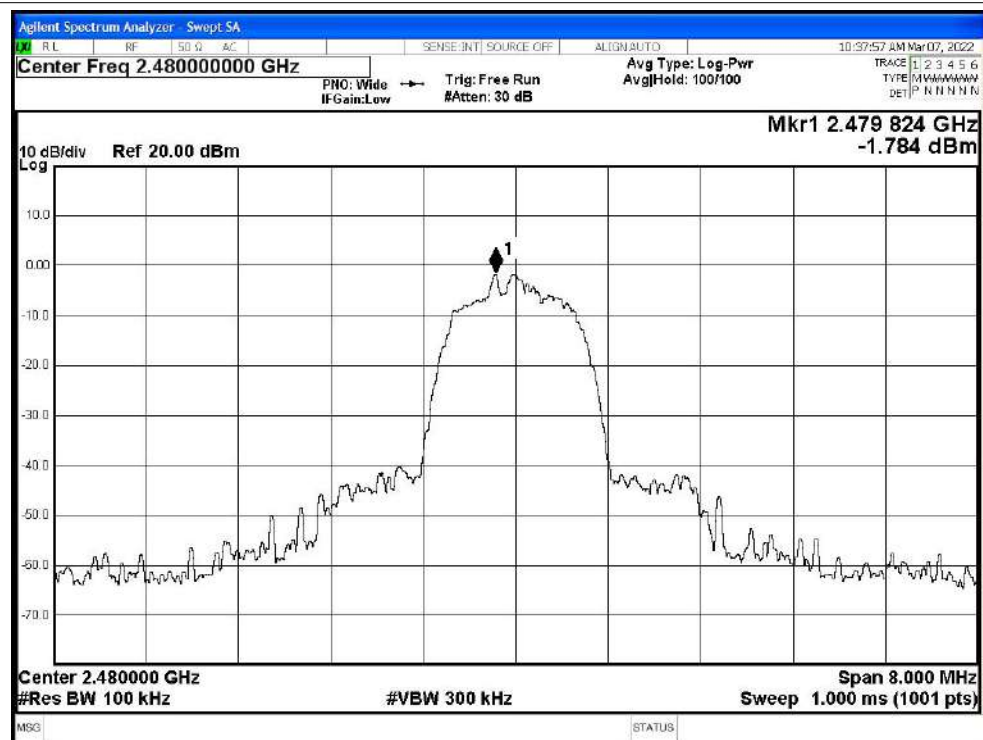


## Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

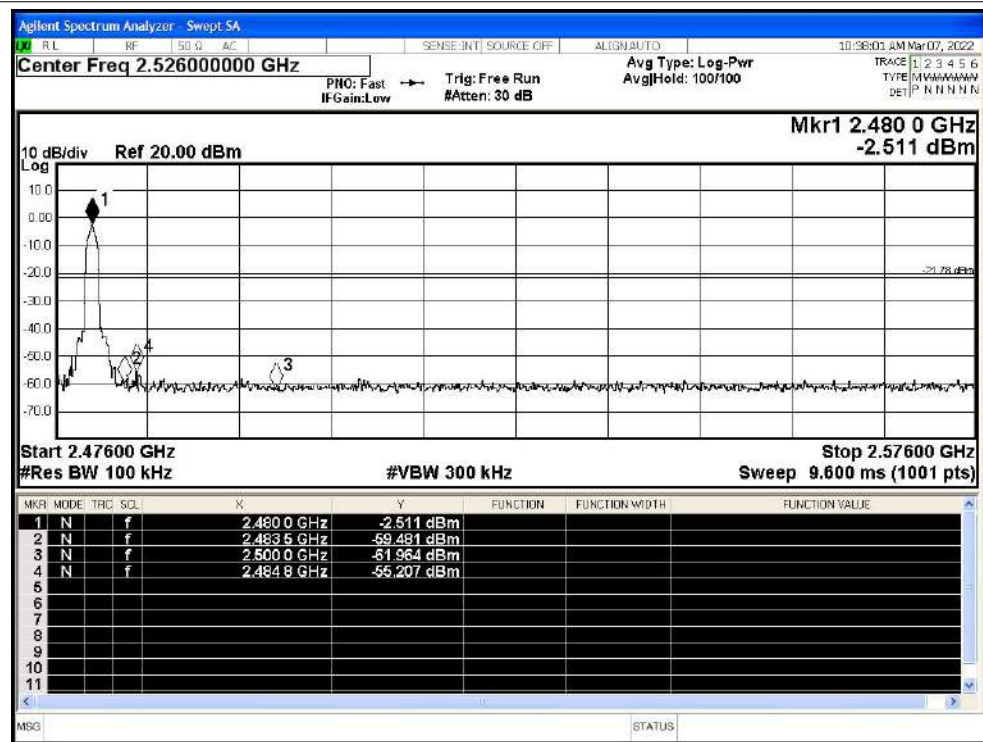




## Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

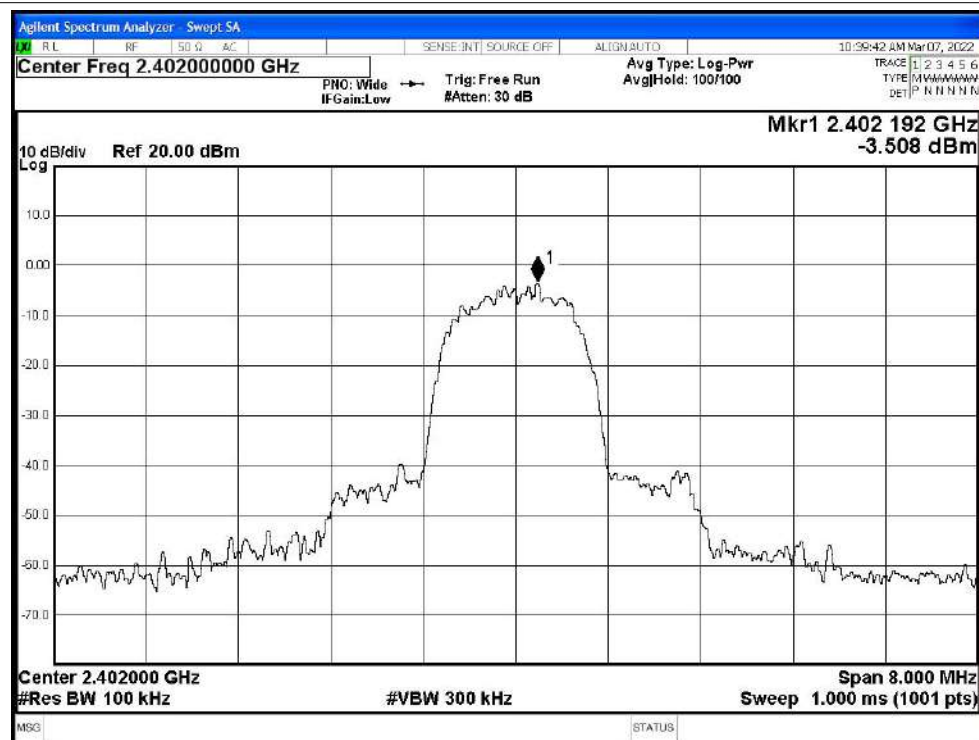


## Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

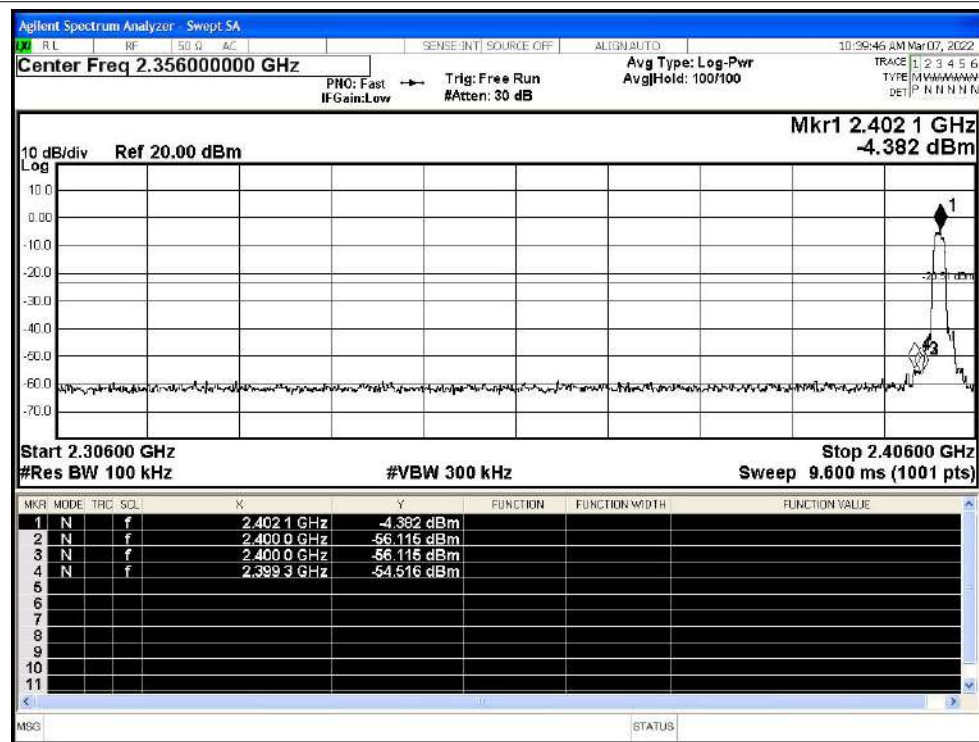




## Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

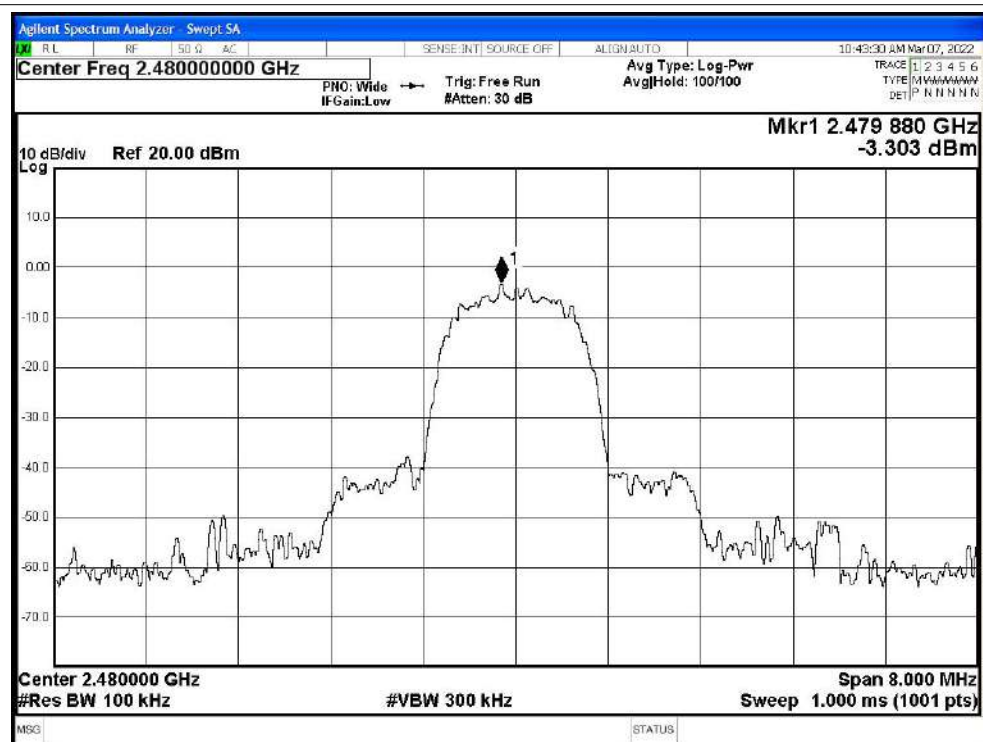


## Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

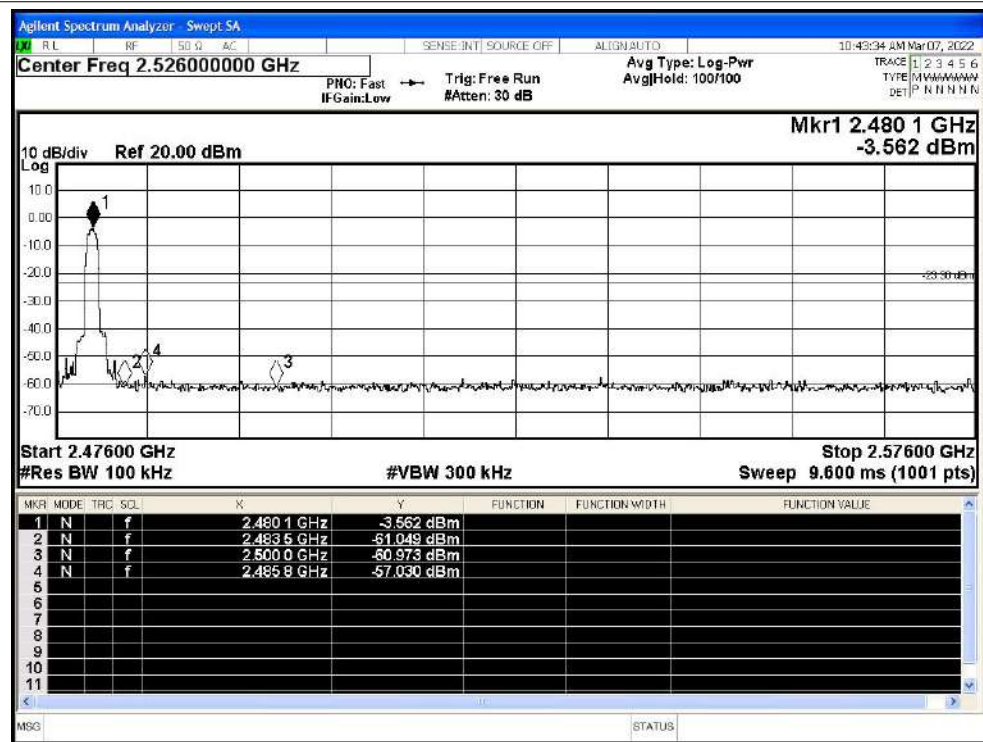




## Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



## Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission





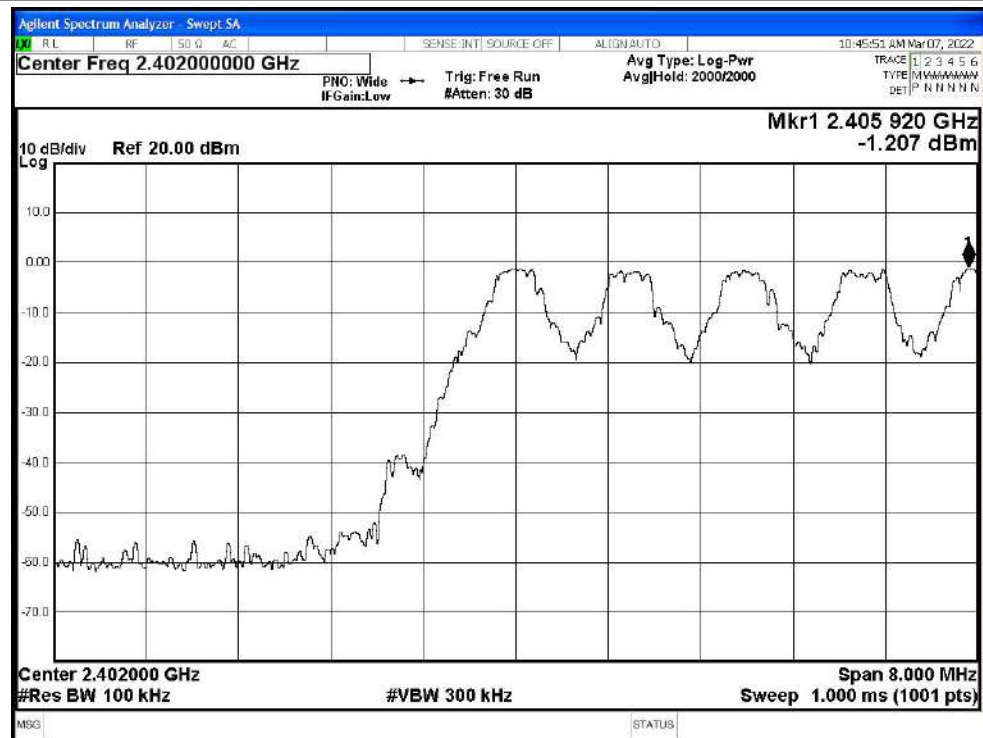
## (Hopping)

| Condition | Mode  | Frequency (MHz) | Antenna | Hopping Mode | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|-------|-----------------|---------|--------------|-----------------|-------------|---------|
| NVNT      | 1-DH5 | 2402            | Ant1    | Hopping      | -56.32          | $\leq -20$  | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | Hopping      | -57.11          | $\leq -20$  | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | Hopping      | -55.09          | $\leq -20$  | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | Hopping      | -56.39          | $\leq -20$  | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant1    | Hopping      | -55.53          | $\leq -20$  | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant1    | Hopping      | -54.2           | $\leq -20$  | Pass    |

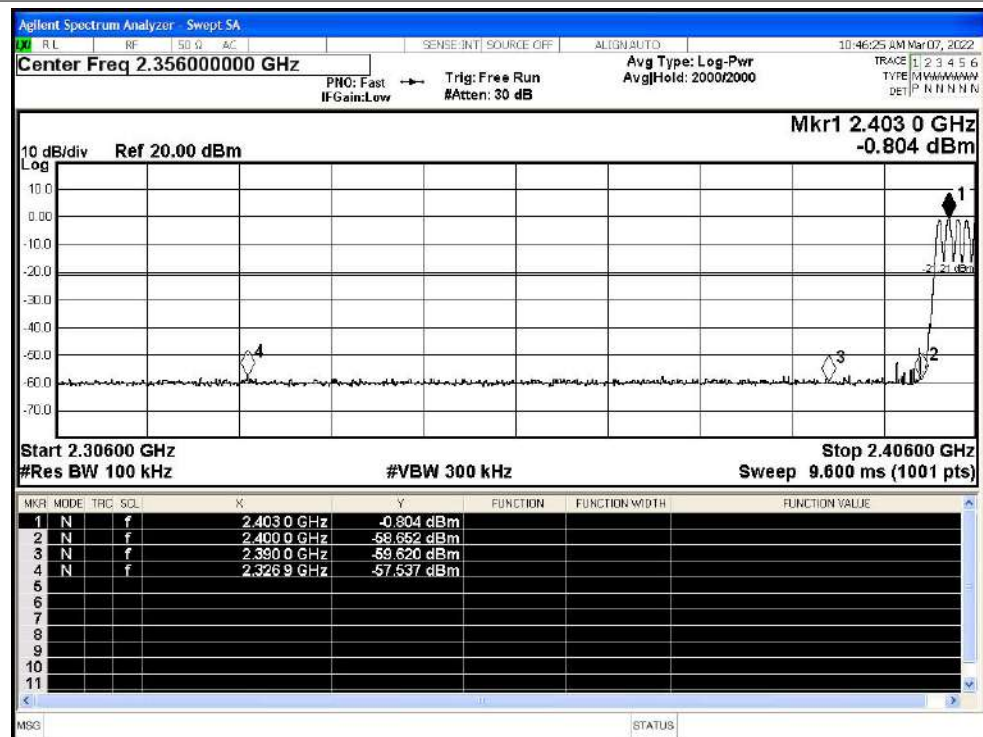


## Test Graphs

## Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref

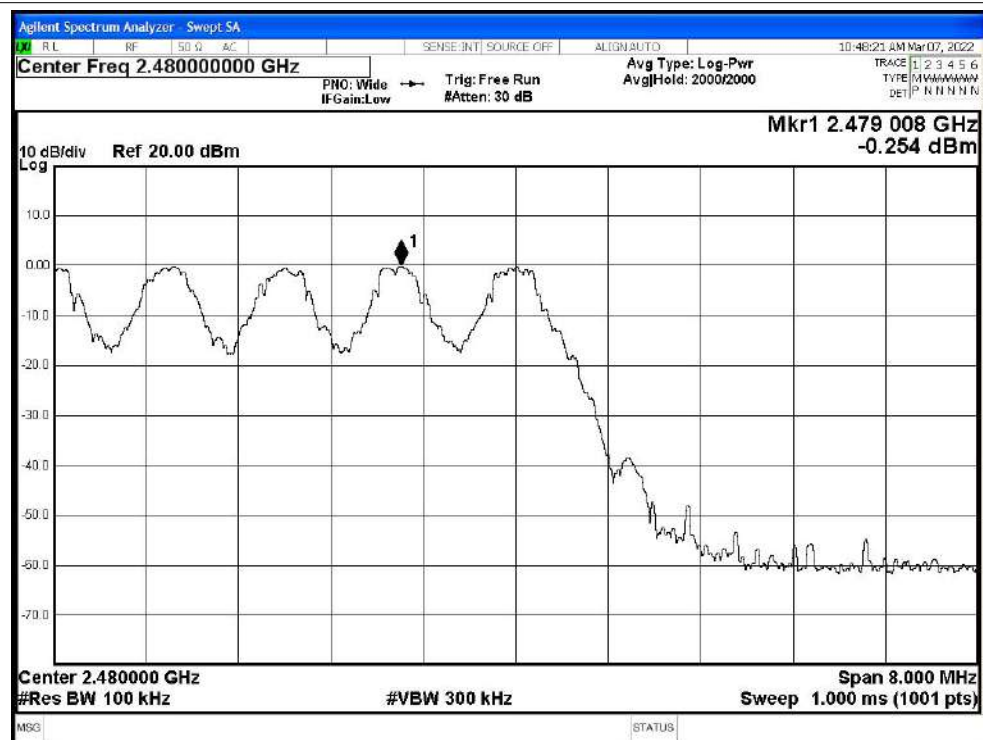


## Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

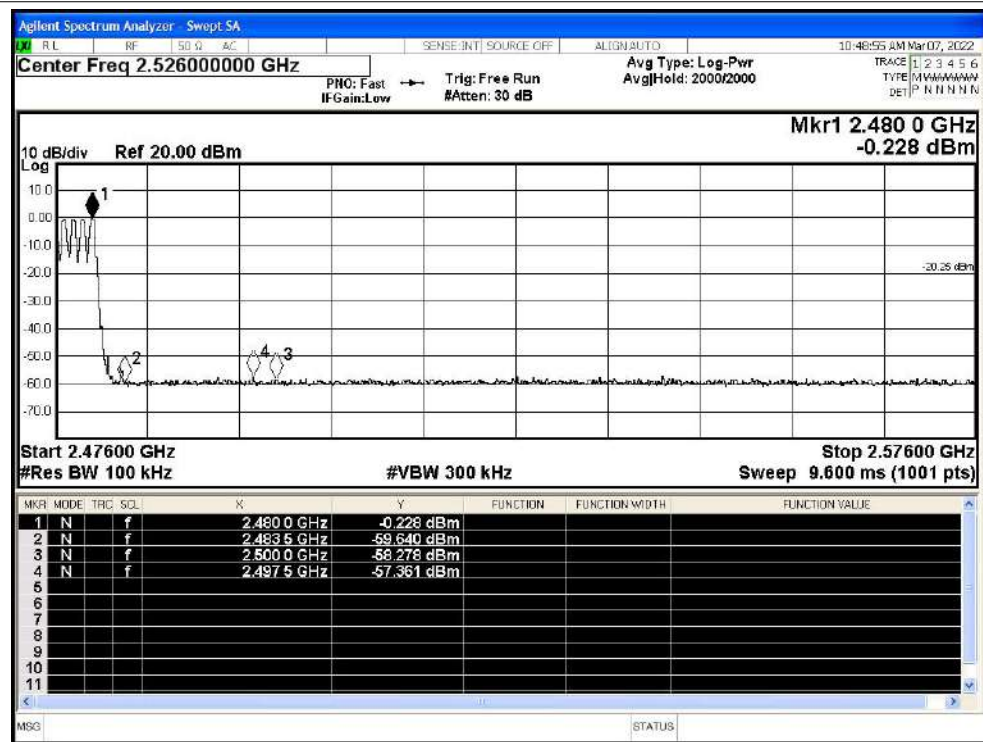




## Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



## Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

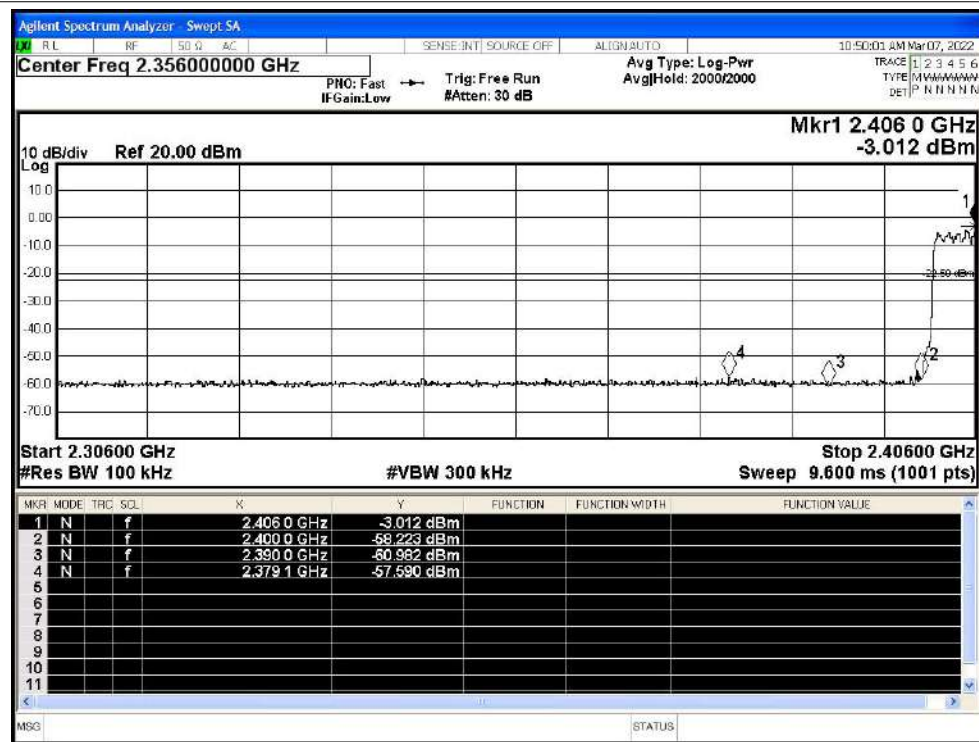




## Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

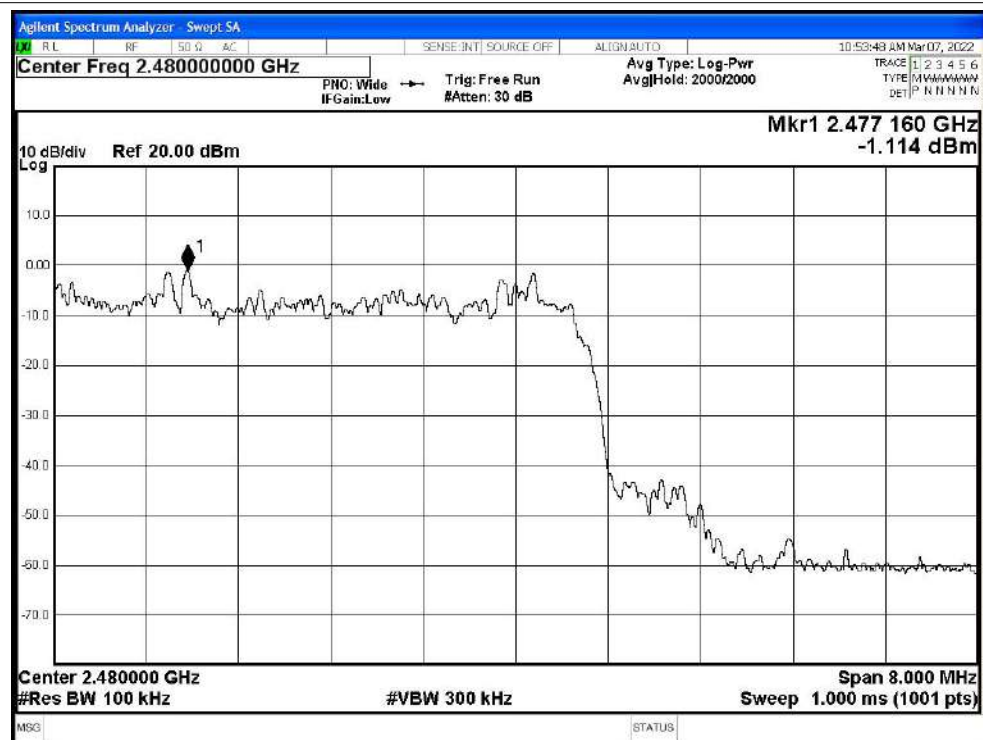


## Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

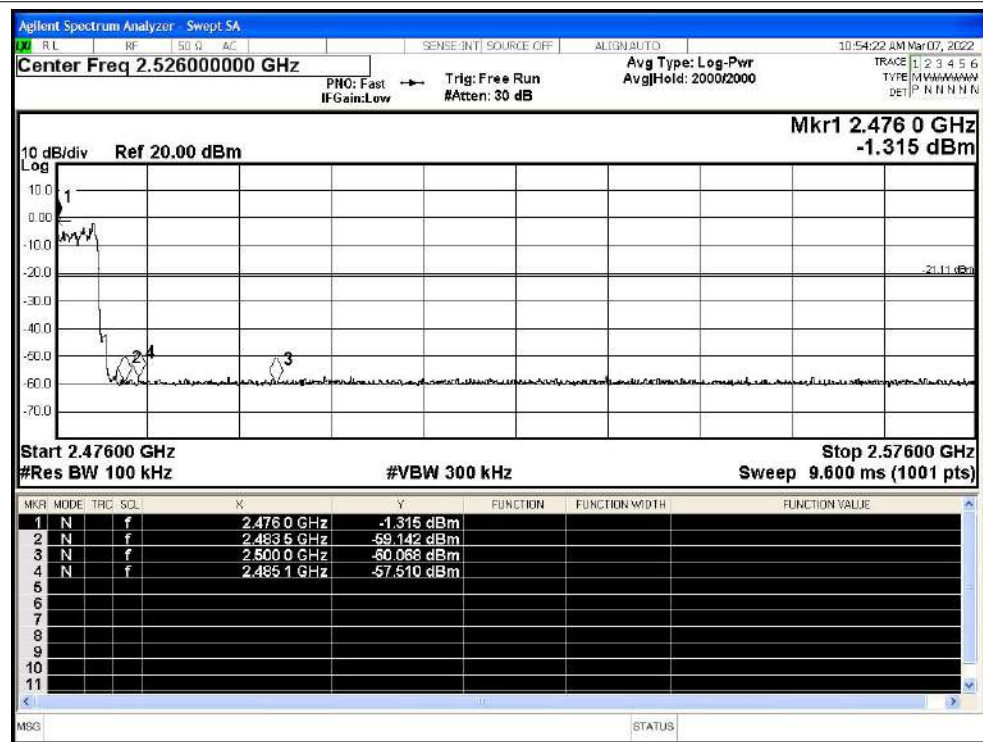




## Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref

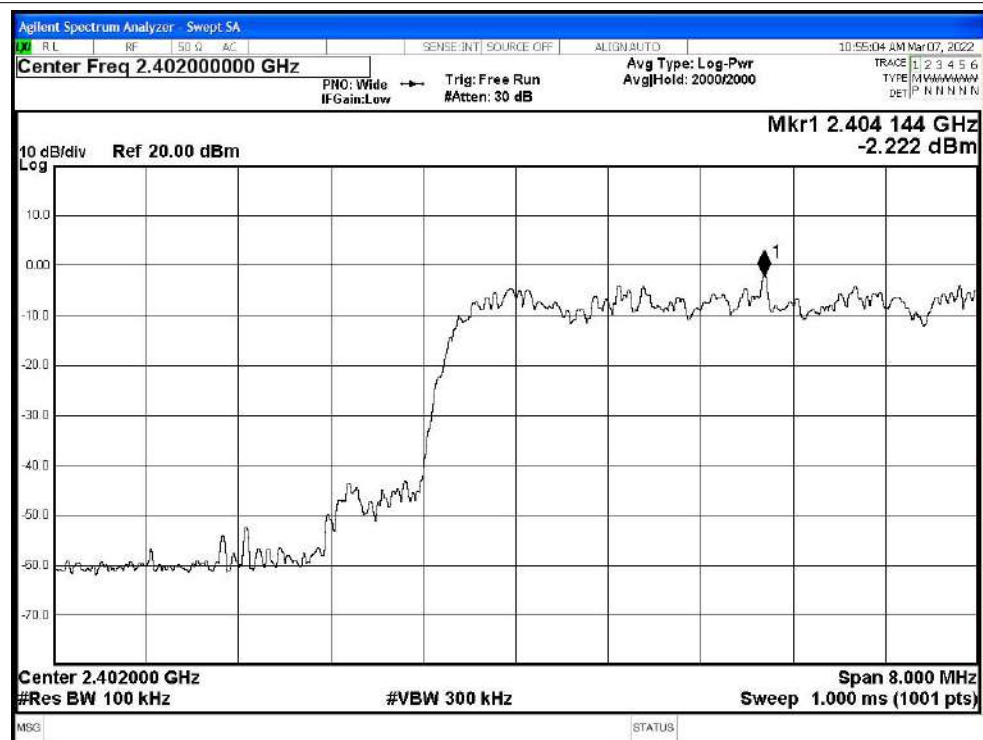


## Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission

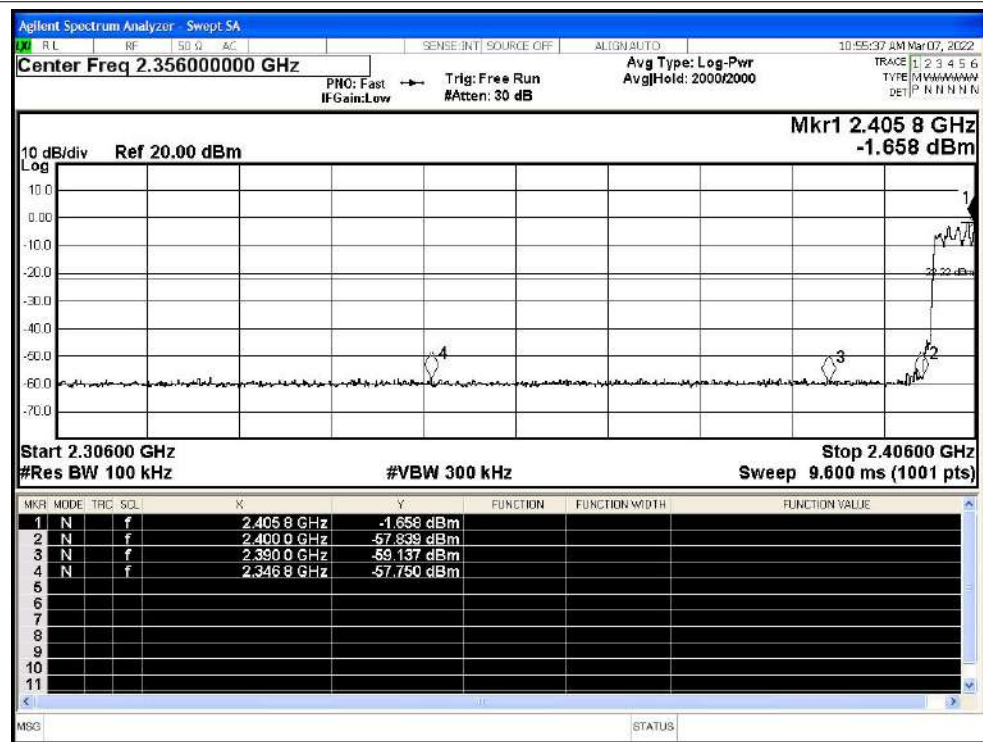




## Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref

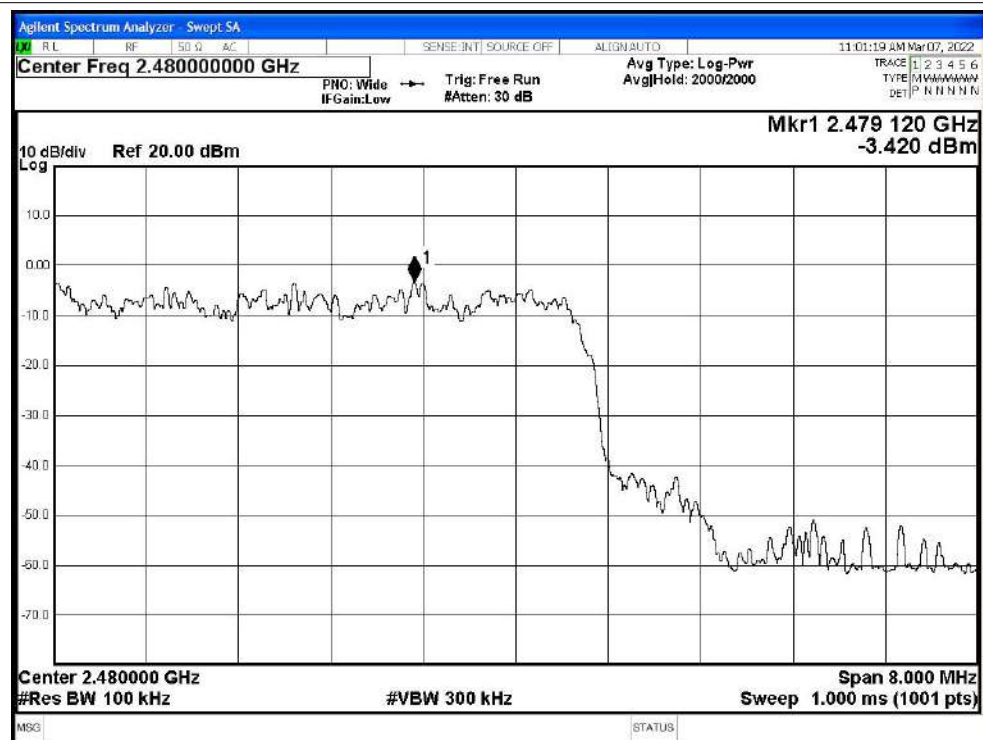


## Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

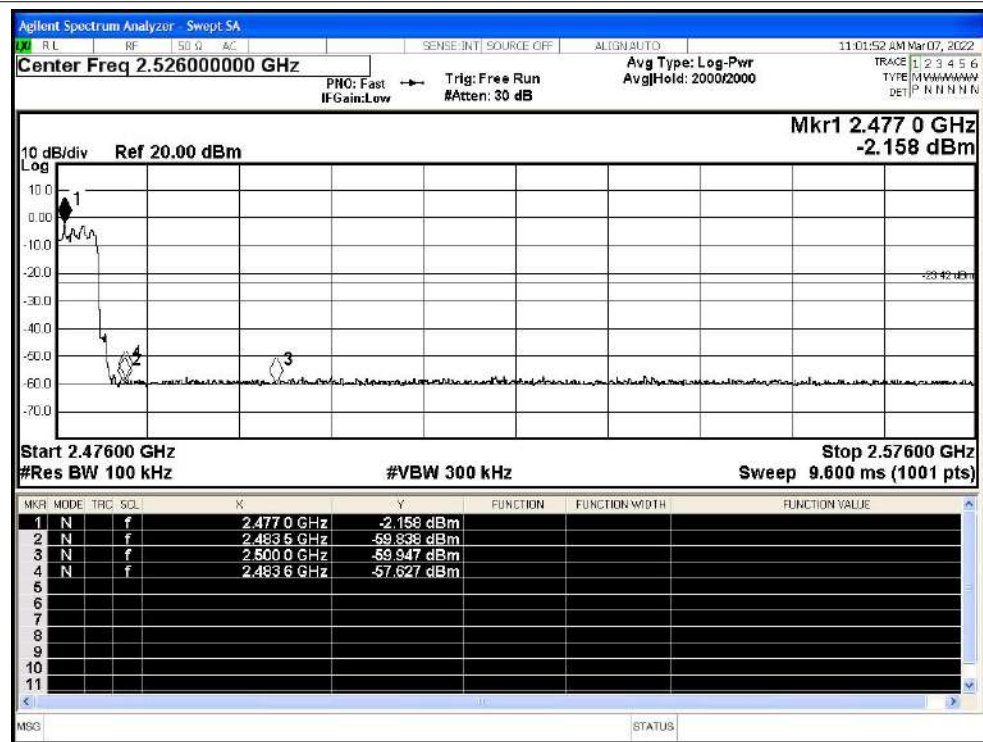




## Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



## Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Emission





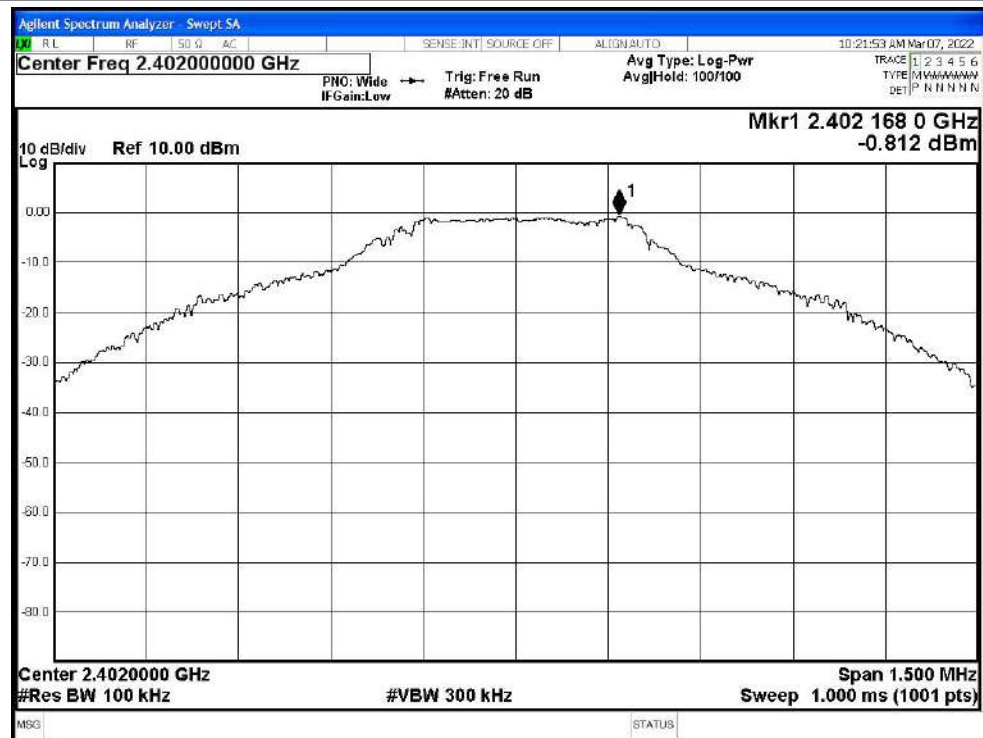
## A.7 Conducted RF Spurious Emission

| Condition | Mode  | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|-------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | 1-DH5 | 2402            | Ant1    | -31.26          | $\leq -20$  | Pass    |
| NVNT      | 1-DH5 | 2441            | Ant1    | -37.94          | $\leq -20$  | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | -53.52          | $\leq -20$  | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | -34.86          | $\leq -20$  | Pass    |
| NVNT      | 2-DH5 | 2441            | Ant1    | -36.23          | $\leq -20$  | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | -55.63          | $\leq -20$  | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant1    | -54.3           | $\leq -20$  | Pass    |
| NVNT      | 3-DH5 | 2441            | Ant1    | -42.33          | $\leq -20$  | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant1    | -55.61          | $\leq -20$  | Pass    |

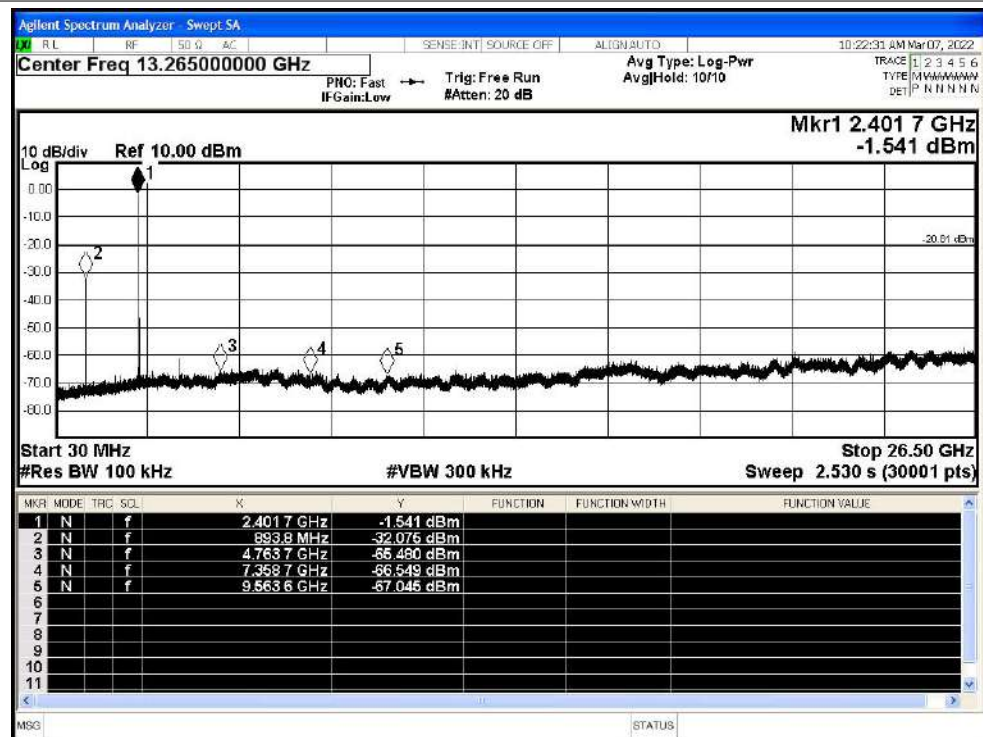


## Test Graphs

## Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

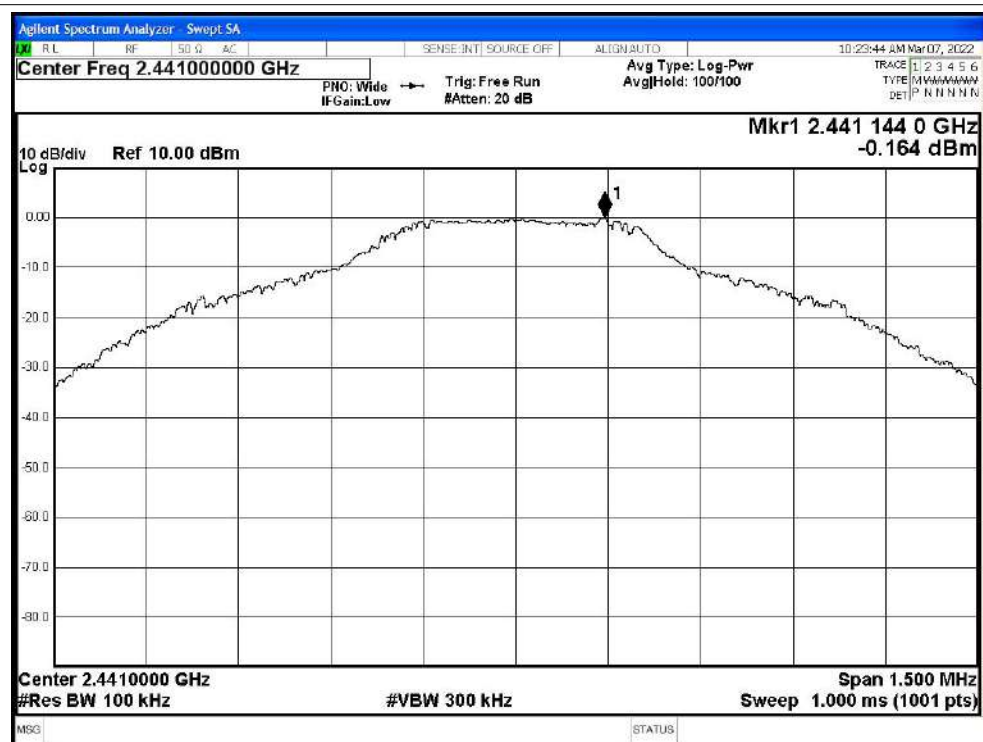


## Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

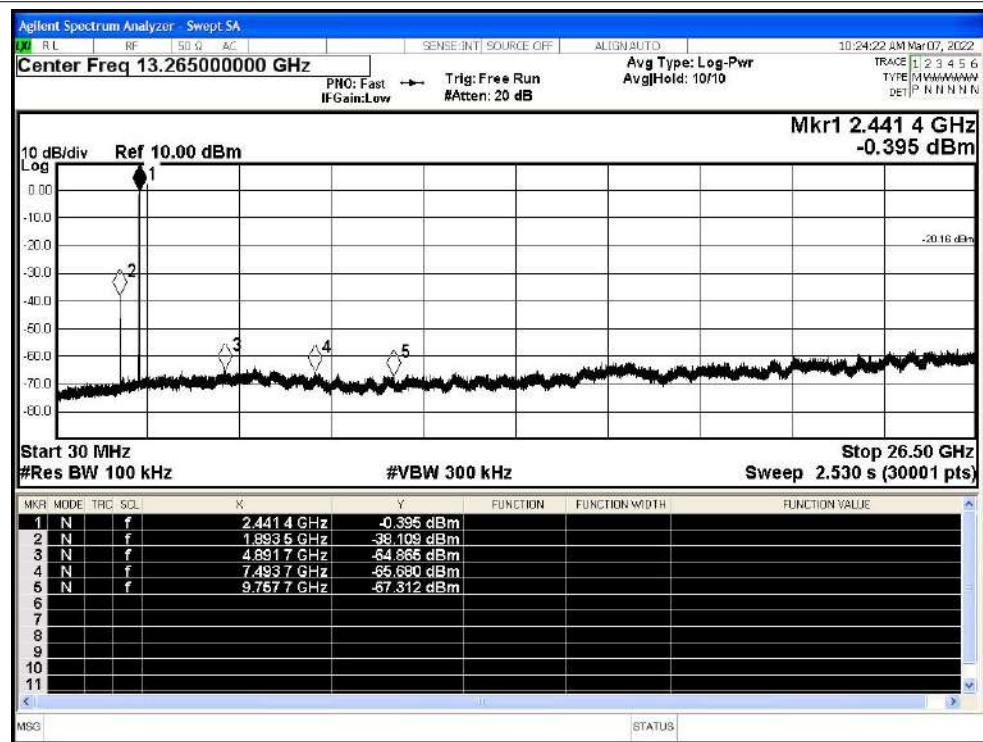




## Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

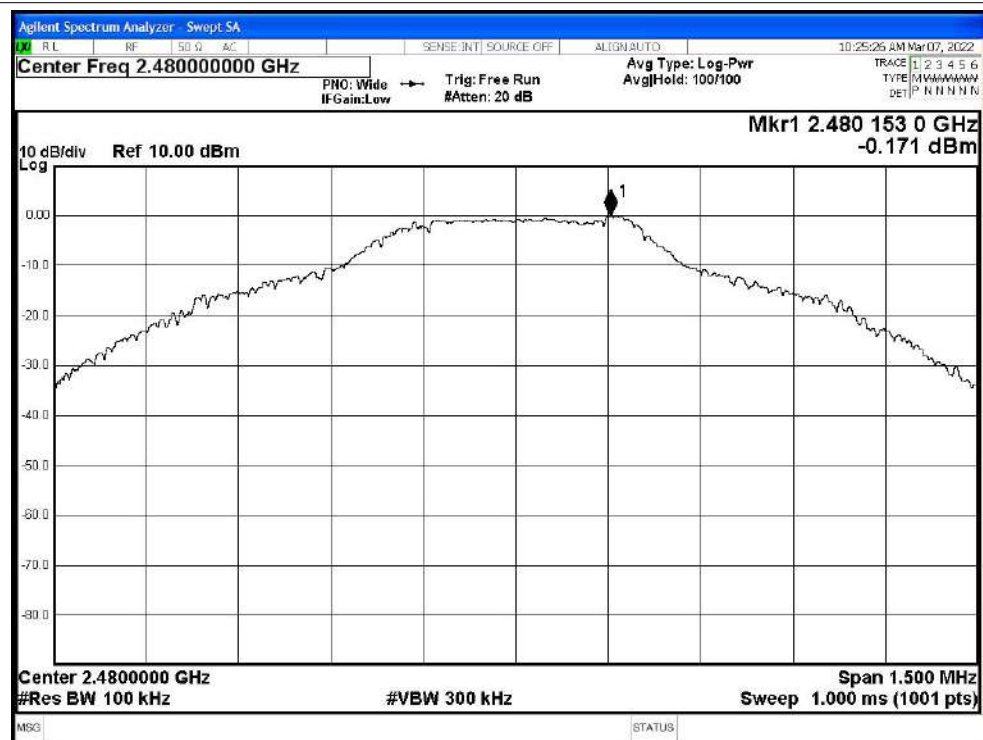


## Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

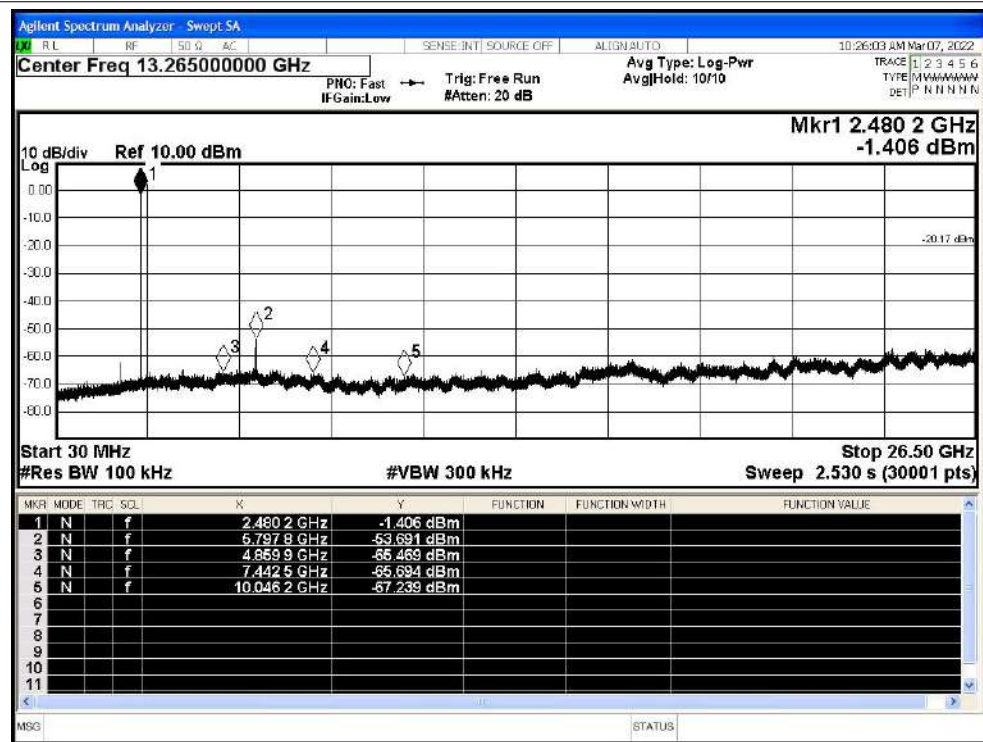




## Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

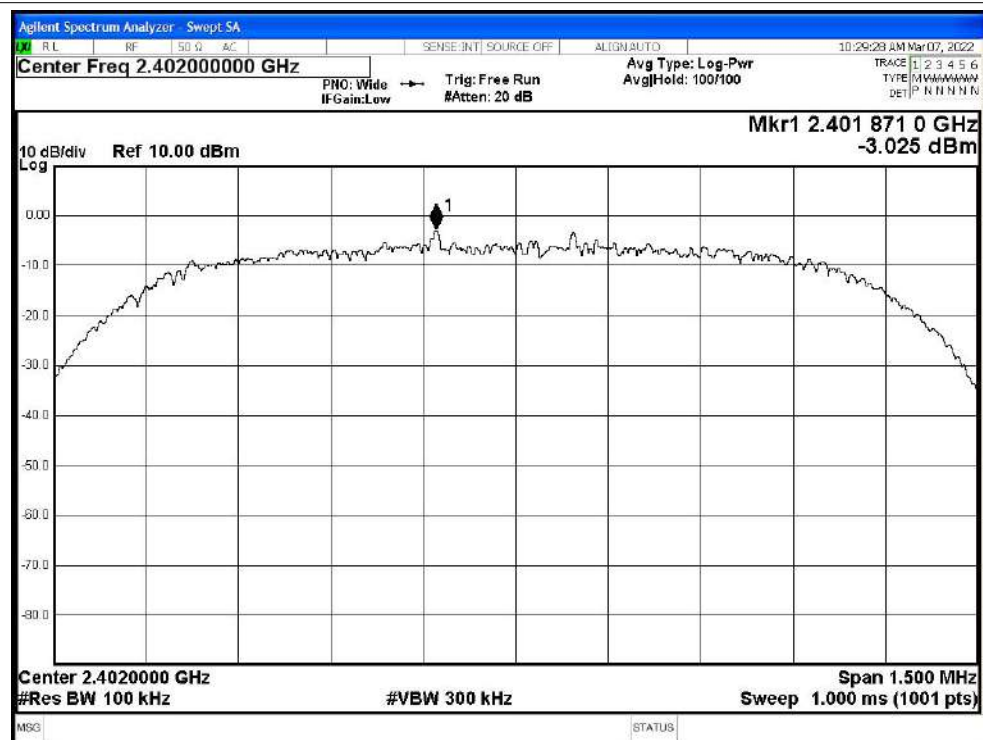


## Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

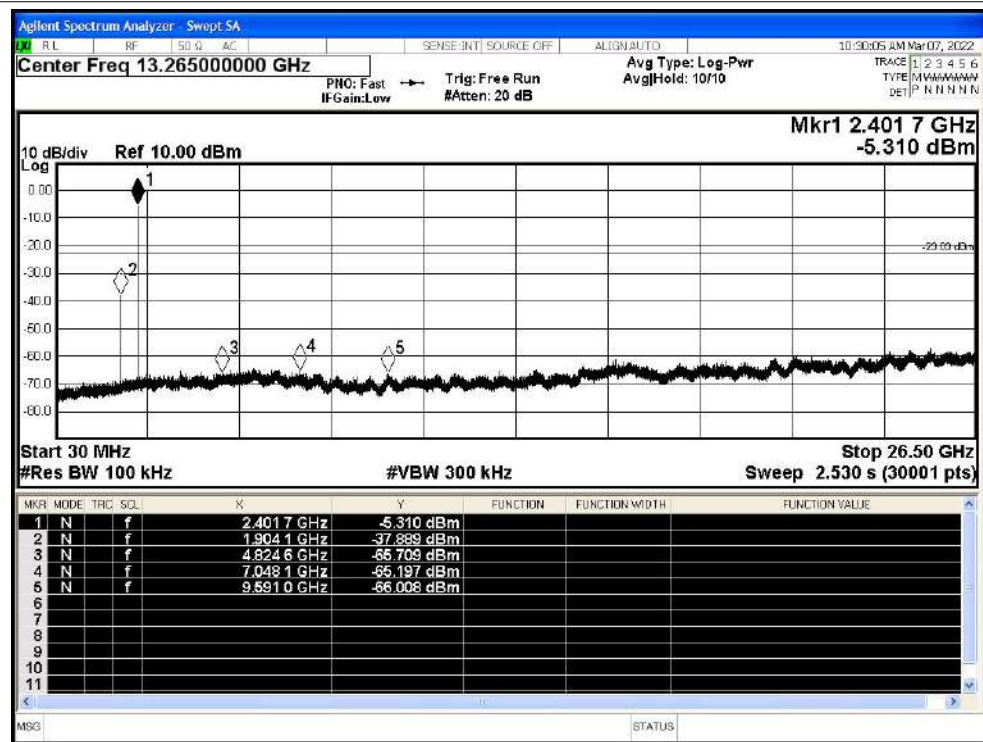




## Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

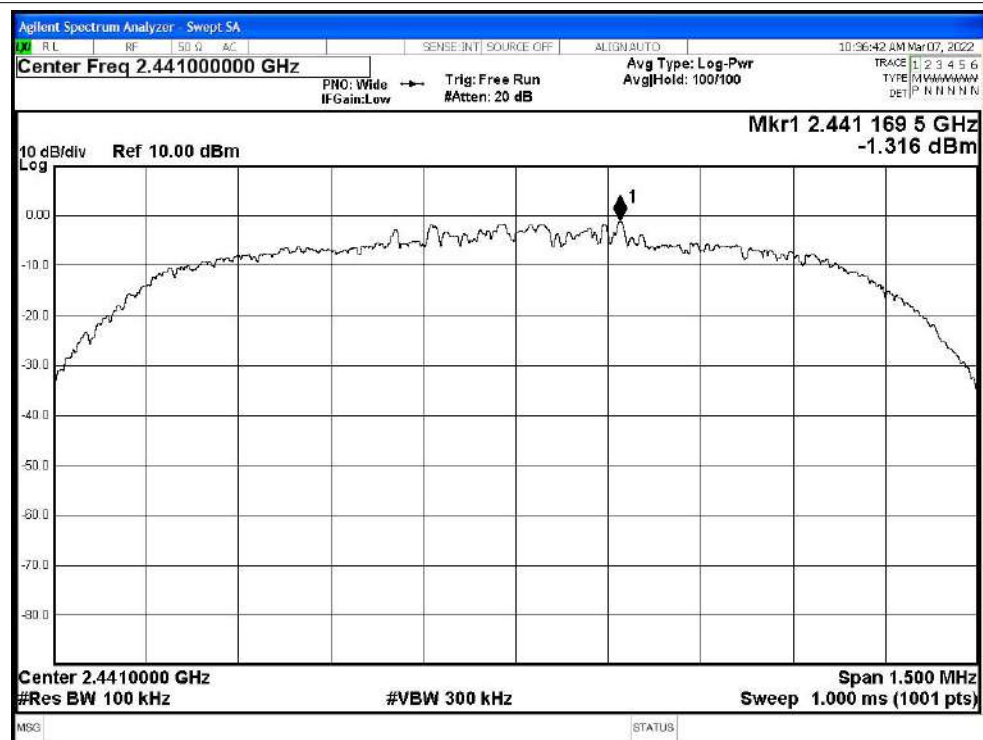


## Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

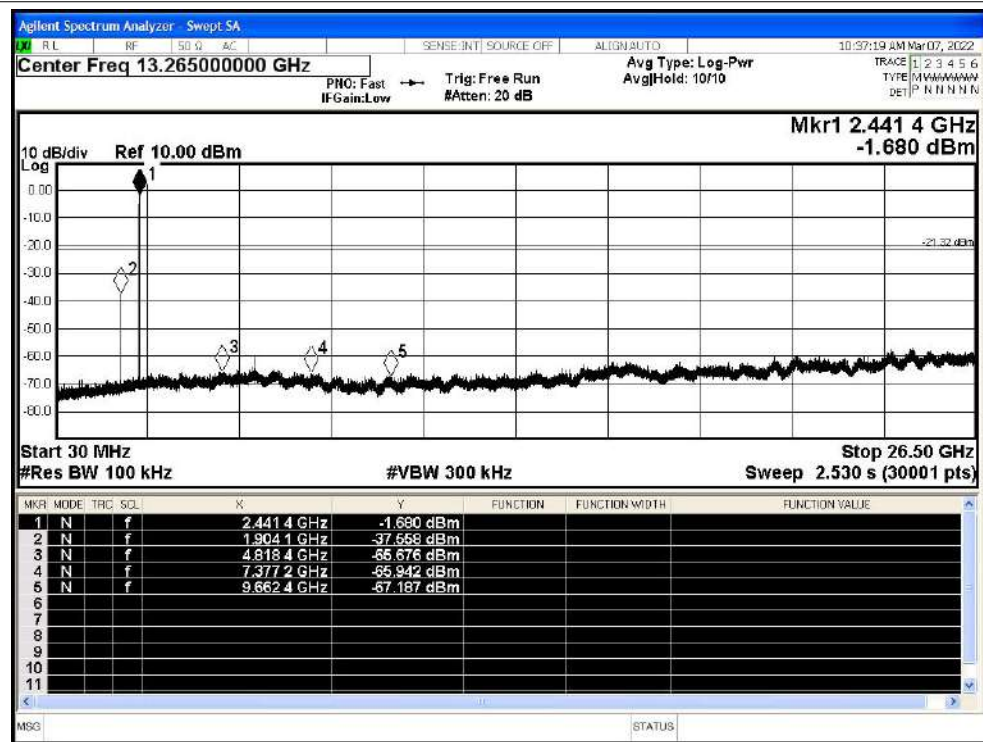




## Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref

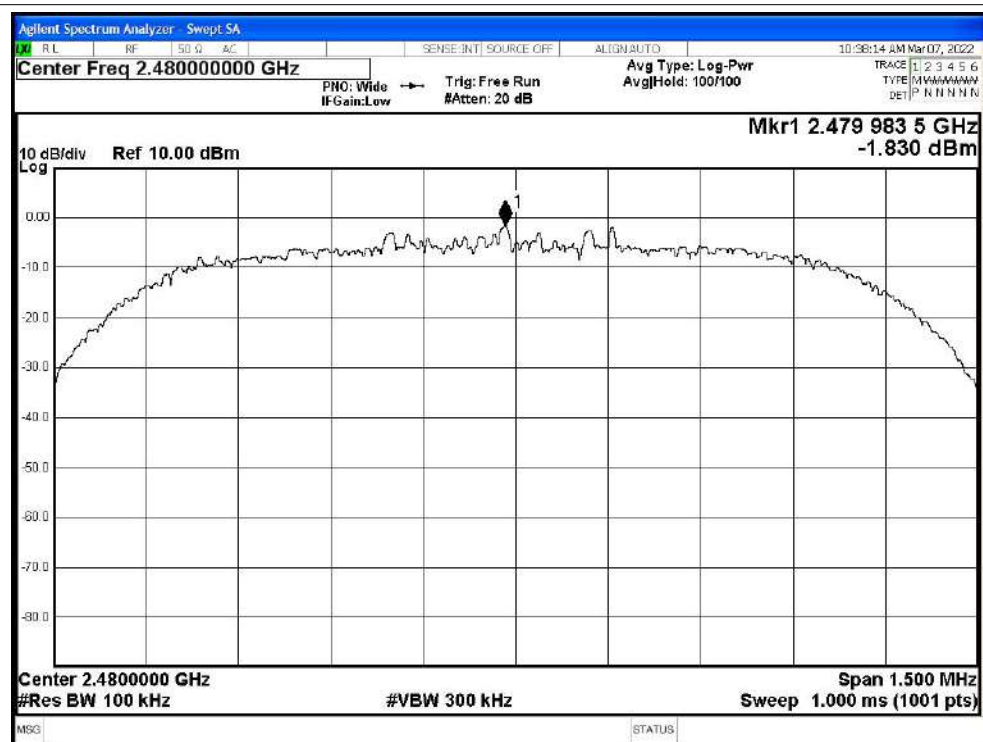


## Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

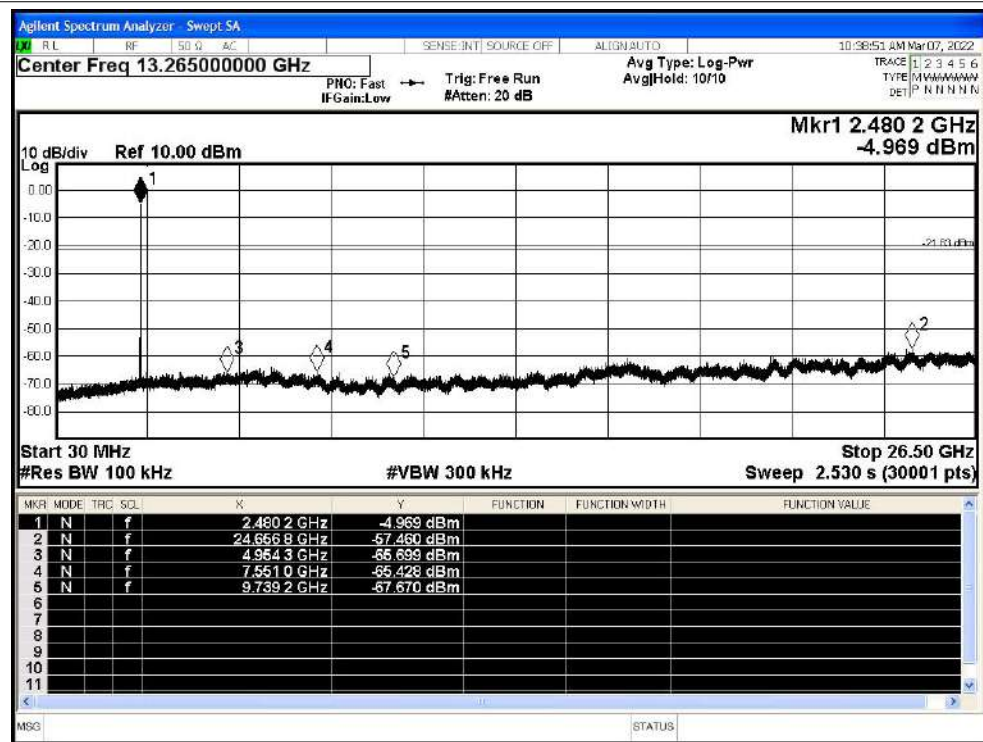




## Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref

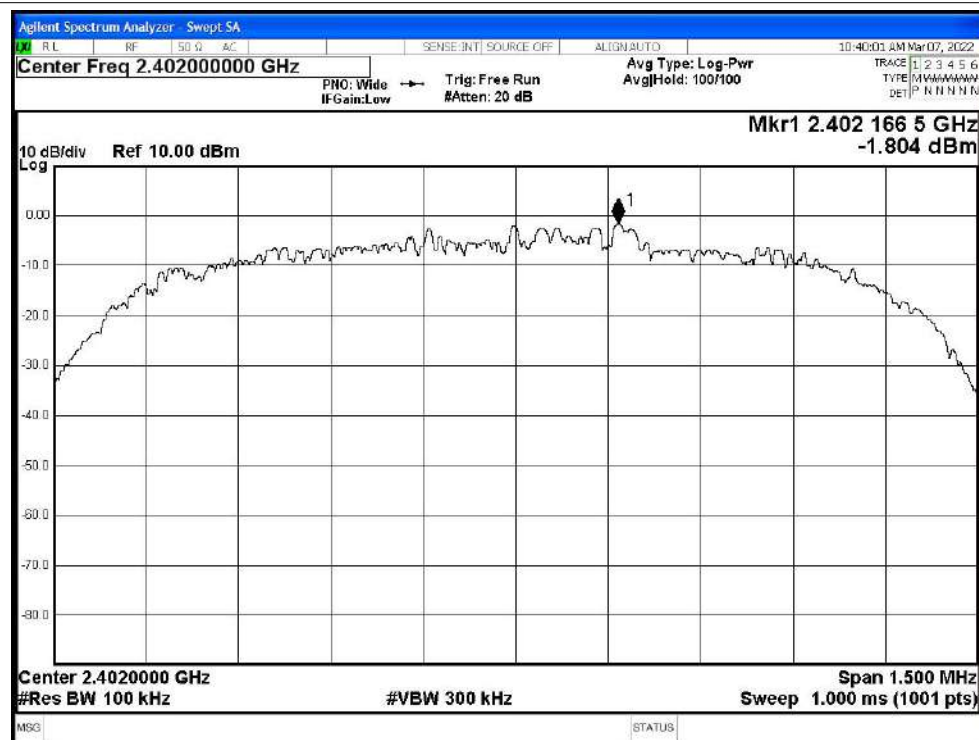


## Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission

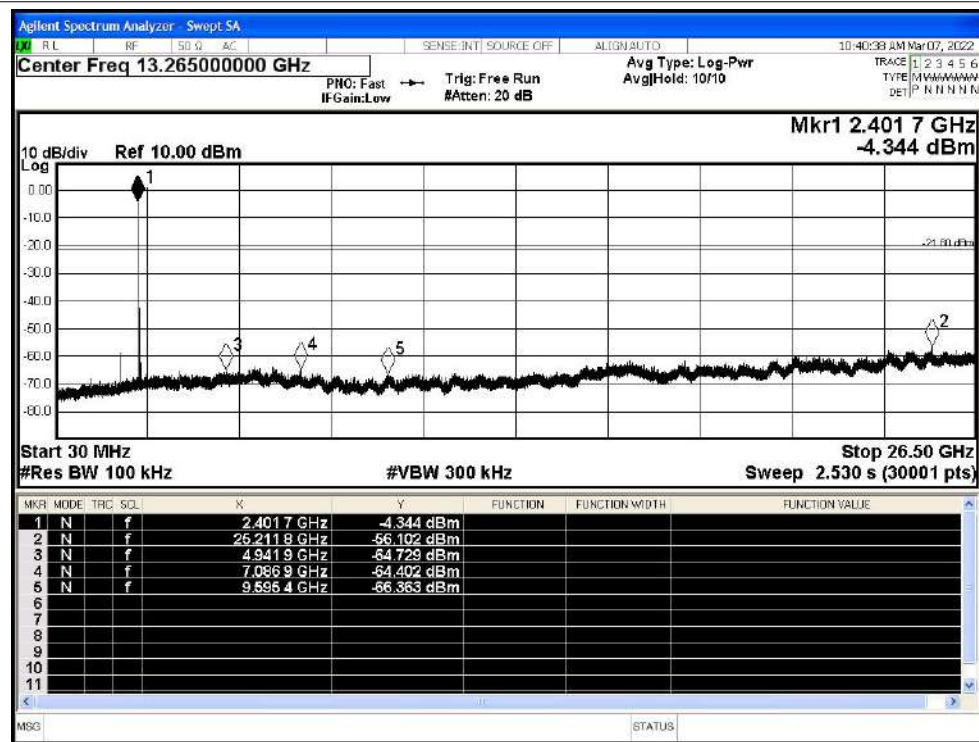




## Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



## Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission

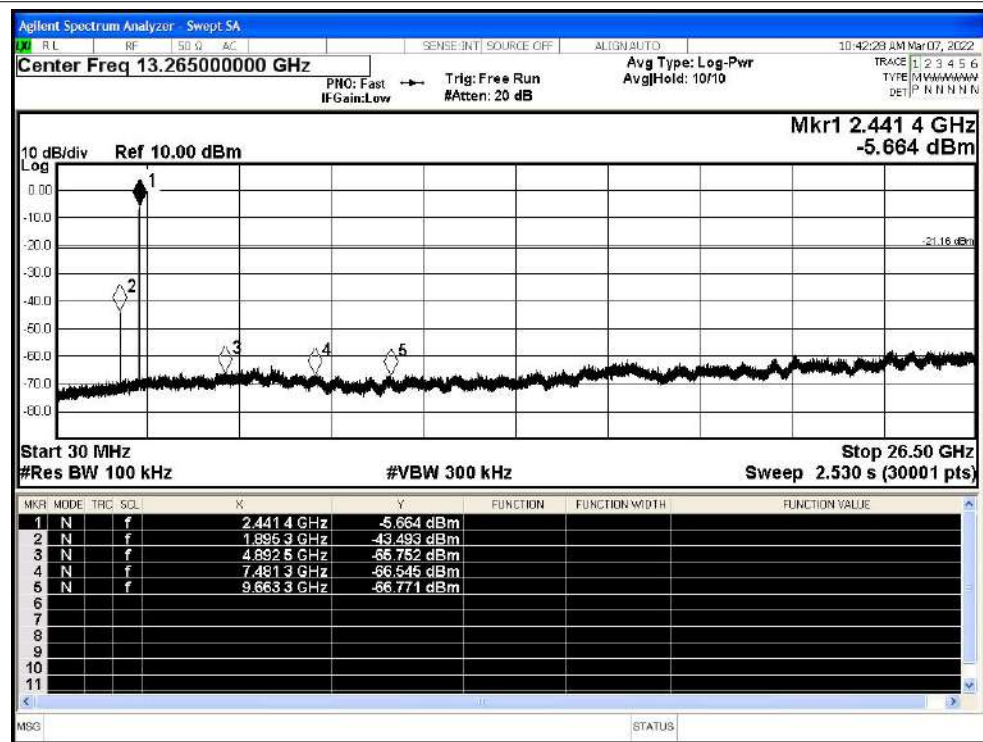




## Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref

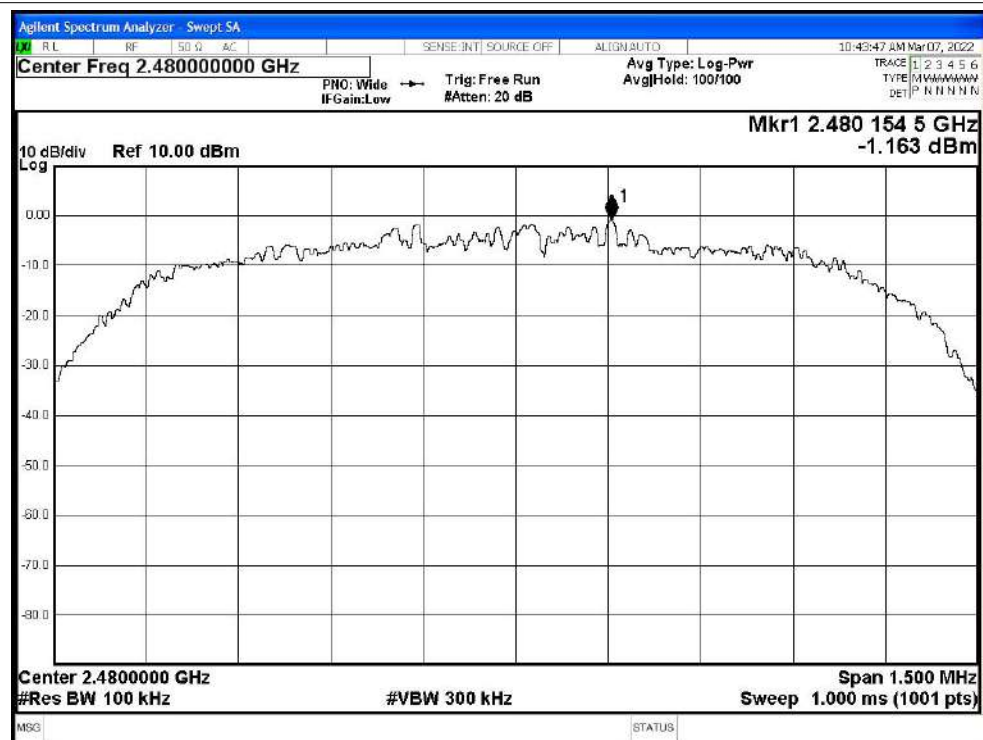


## Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission

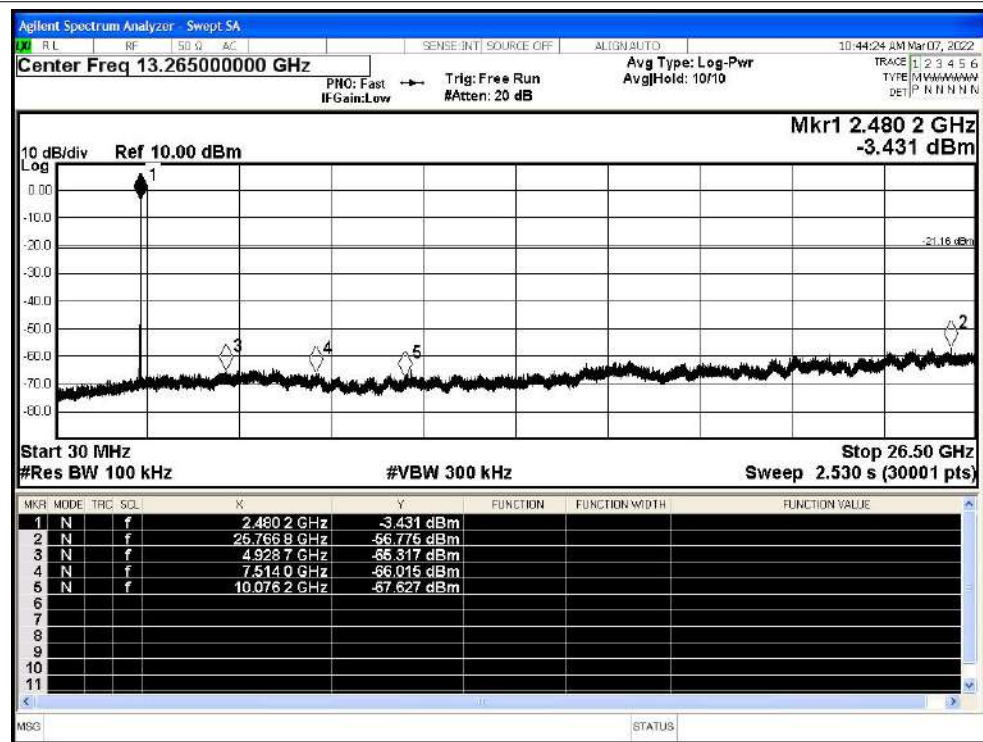




## Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



## Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission





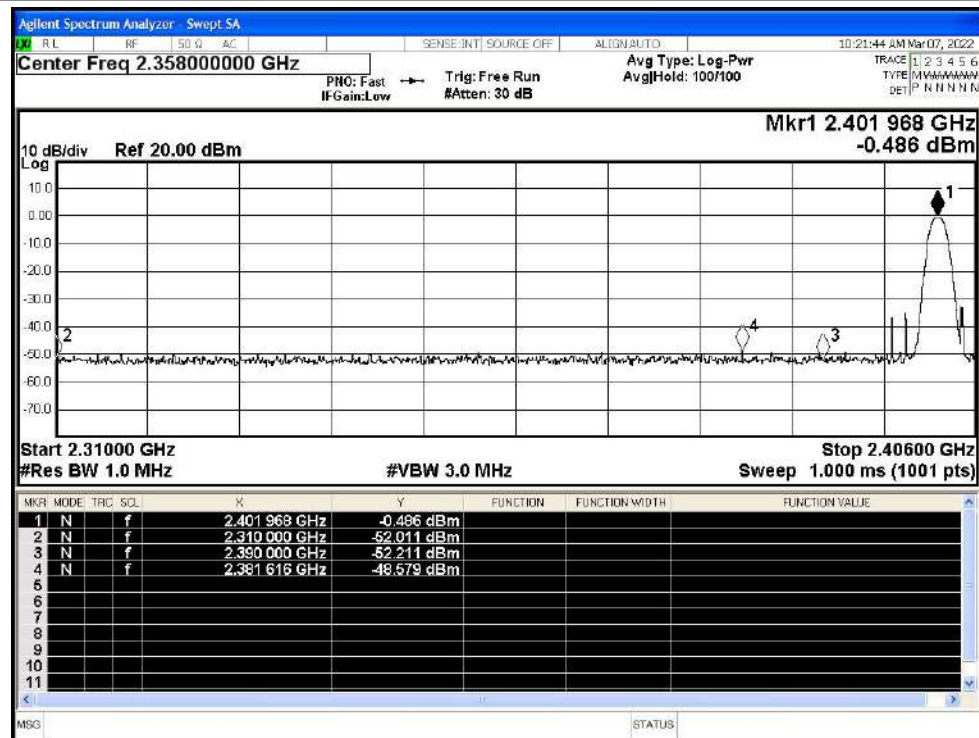
## A.8 Restrict Band

| Condition | Mode  | Frequency (MHz) | Antenna | Hopping Mode | Spur Freq (MHz) | Power (dBm) | Gain (dBi) | E (dBuV/m) | Detector | Limit (dBuV/m) | Verdict |
|-----------|-------|-----------------|---------|--------------|-----------------|-------------|------------|------------|----------|----------------|---------|
| NVNT      | 1-DH5 | 2402            | Ant1    | No-Hopping   | 2310            | -52.01      | 2          | 45.25      | Peak     | ≤74            | Pass    |
| NVNT      | 1-DH5 | 2402            | Ant1    | No-Hopping   | 2310            | -61.99      | 2          | 35.27      | Average  | ≤54            | Pass    |
| NVNT      | 1-DH5 | 2402            | Ant1    | No-Hopping   | 2381.616        | -48.57      | 2          | 48.69      | Peak     | ≤74            | Pass    |
| NVNT      | 1-DH5 | 2402            | Ant1    | No-Hopping   | 2389.68         | -61.4       | 2          | 35.86      | Average  | ≤54            | Pass    |
| NVNT      | 1-DH5 | 2402            | Ant1    | No-Hopping   | 2390            | -51.87      | 2          | 45.39      | Peak     | ≤74            | Pass    |
| NVNT      | 1-DH5 | 2402            | Ant1    | No-Hopping   | 2390            | -61.6       | 2          | 35.66      | Average  | ≤54            | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | No-Hopping   | 2483.5          | -51.23      | 2          | 46.03      | Peak     | ≤74            | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | No-Hopping   | 2483.5          | -61.1       | 2          | 36.16      | Average  | ≤54            | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | No-Hopping   | 2483.56         | -37.71      | 2          | 59.55      | Peak     | ≤74            | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | No-Hopping   | 2483.728        | -61.08      | 2          | 36.18      | Average  | ≤54            | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | No-Hopping   | 2500            | -51.62      | 2          | 45.64      | Peak     | ≤74            | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | No-Hopping   | 2500            | -61.53      | 2          | 35.73      | Average  | ≤54            | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | No-Hopping   | 2310            | -51.75      | 2          | 45.51      | Peak     | ≤74            | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | No-Hopping   | 2310            | -62.04      | 2          | 35.22      | Average  | ≤54            | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | No-Hopping   | 2325.744        | -49.19      | 2          | 48.07      | Peak     | ≤74            | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | No-Hopping   | 2384.304        | -61.41      | 2          | 35.85      | Average  | ≤54            | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | No-Hopping   | 2390            | -53.05      | 2          | 44.21      | Peak     | ≤74            | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | No-Hopping   | 2390            | -61.66      | 2          | 35.6       | Average  | ≤54            | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | No-Hopping   | 2483.5          | -50.44      | 2          | 46.82      | Peak     | ≤74            | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | No-Hopping   | 2483.5          | -60.84      | 2          | 36.42      | Average  | ≤54            | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | No-Hopping   | 2484.808        | -39.46      | 2          | 57.8       | Peak     | ≤74            | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | No-Hopping   | 2483.512        | -60.84      | 2          | 36.42      | Average  | ≤54            | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | No-Hopping   | 2500            | -52.85      | 2          | 44.41      | Peak     | ≤74            | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | No-Hopping   | 2500            | -61.56      | 2          | 35.7       | Average  | ≤54            | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant1    | No-Hopping   | 2310            | -52.86      | 2          | 44.4       | Peak     | ≤74            | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant1    | No-Hopping   | 2310            | -61.99      | 2          | 35.27      | Average  | ≤54            | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant1    | No-Hopping   | 2364.048        | -48.74      | 2          | 48.52      | Peak     | ≤74            | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant1    | No-Hopping   | 2389.296        | -61.35      | 2          | 35.91      | Average  | ≤54            | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant1    | No-Hopping   | 2390            | -52.26      | 2          | 45         | Peak     | ≤74            | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant1    | No-Hopping   | 2390            | -61.52      | 2          | 35.74      | Average  | ≤54            | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant1    | No-Hopping   | 2483.5          | -50.78      | 2          | 46.48      | Peak     | ≤74            | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant1    | No-Hopping   | 2483.5          | -60.97      | 2          | 36.29      | Average  | ≤54            | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant1    | No-Hopping   | 2483.536        | -39.56      | 2          | 57.7       | Peak     | ≤74            | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant1    | No-Hopping   | 2483.656        | -60.91      | 2          | 36.35      | Average  | ≤54            | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant1    | No-Hopping   | 2500            | -52.15      | 2          | 45.11      | Peak     | ≤74            | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant1    | No-Hopping   | 2500            | -61.59      | 2          | 35.67      | Average  | ≤54            | Pass    |

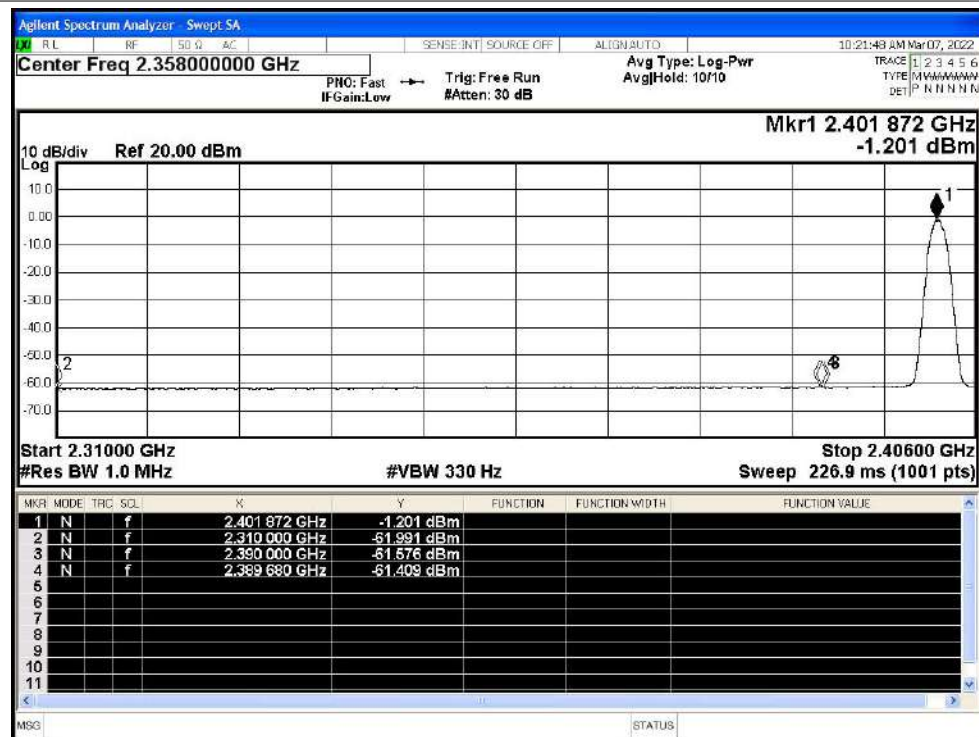


## Test Graphs

## Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Peak

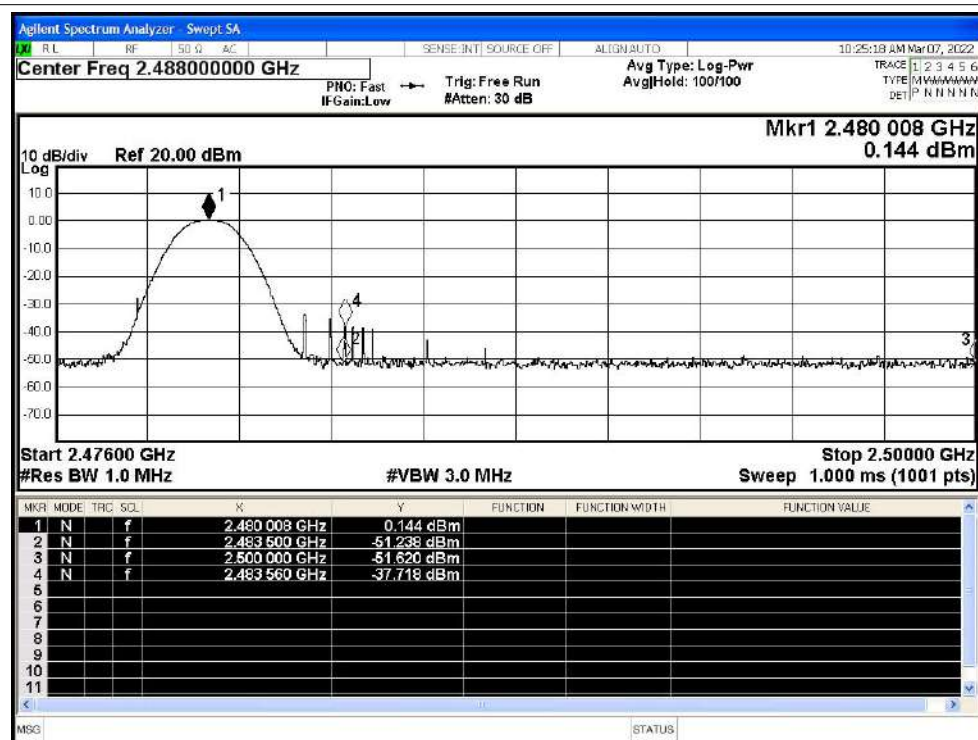


## Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

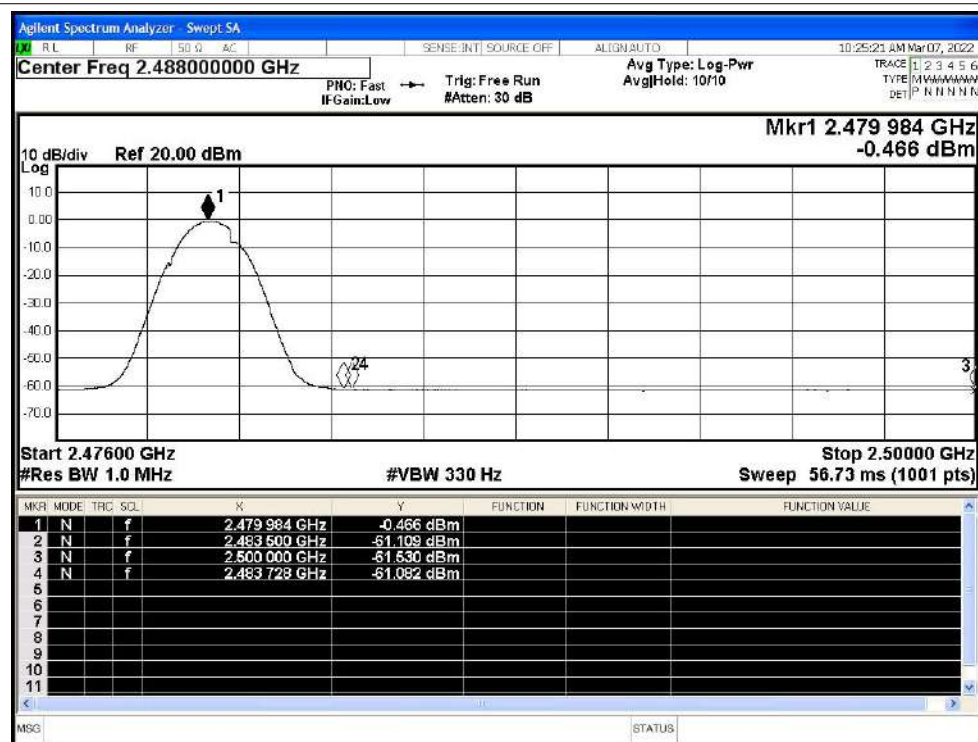




## Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

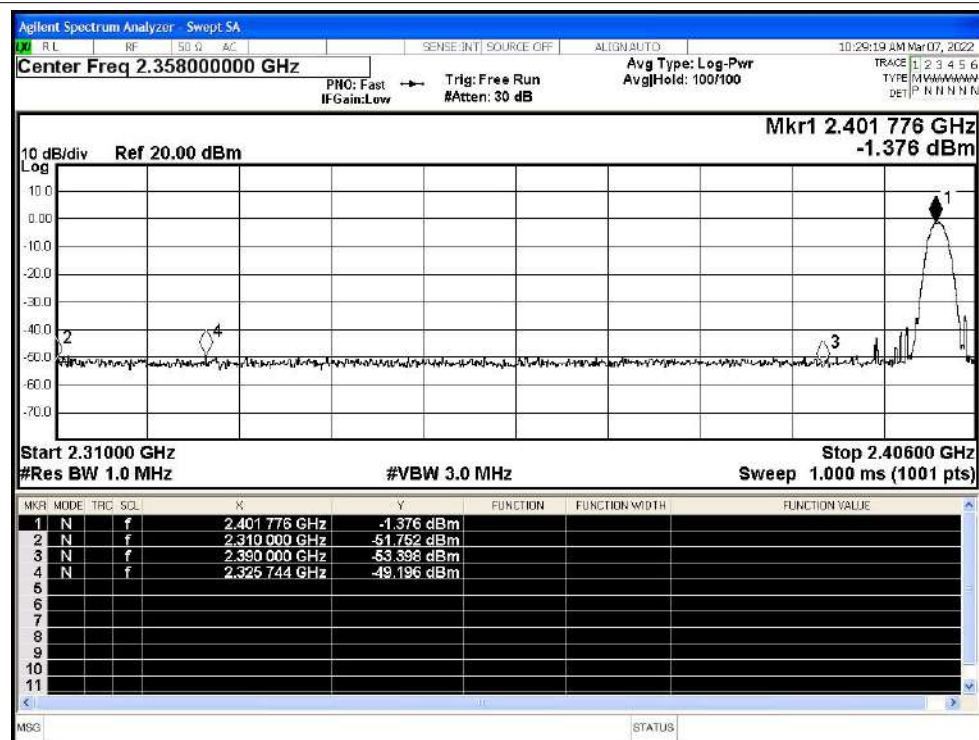


## Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

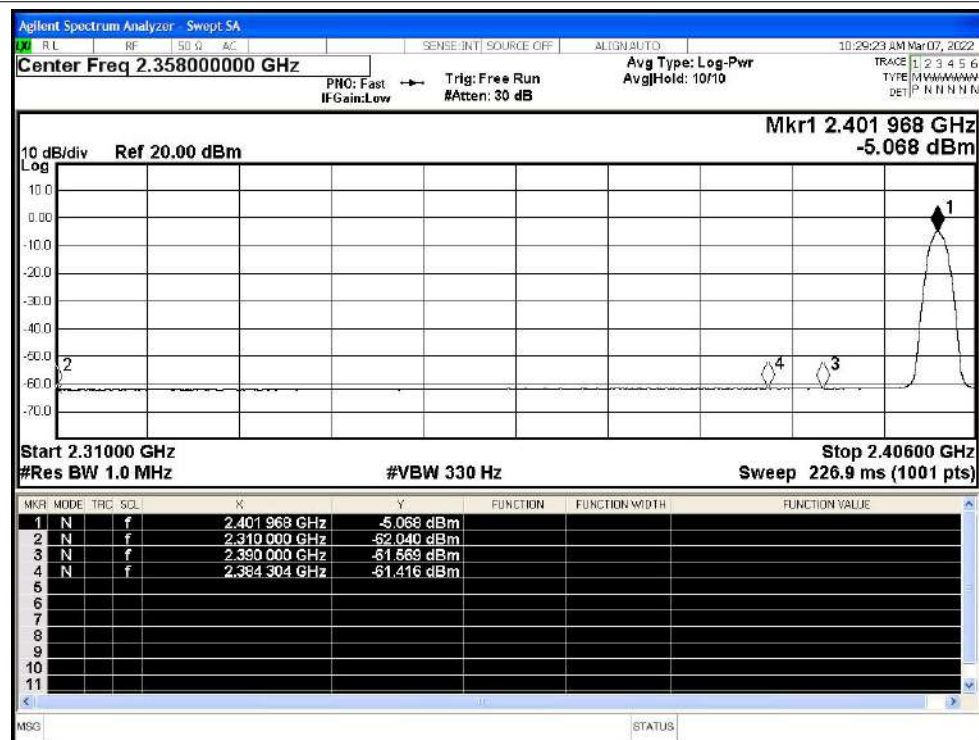




## Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

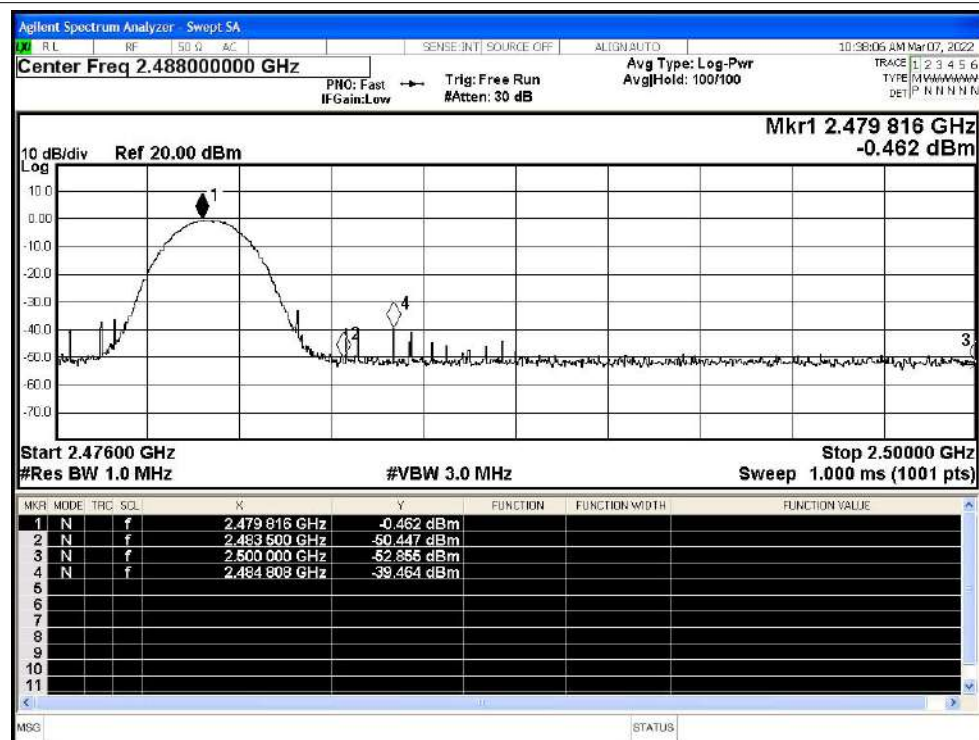


## Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average

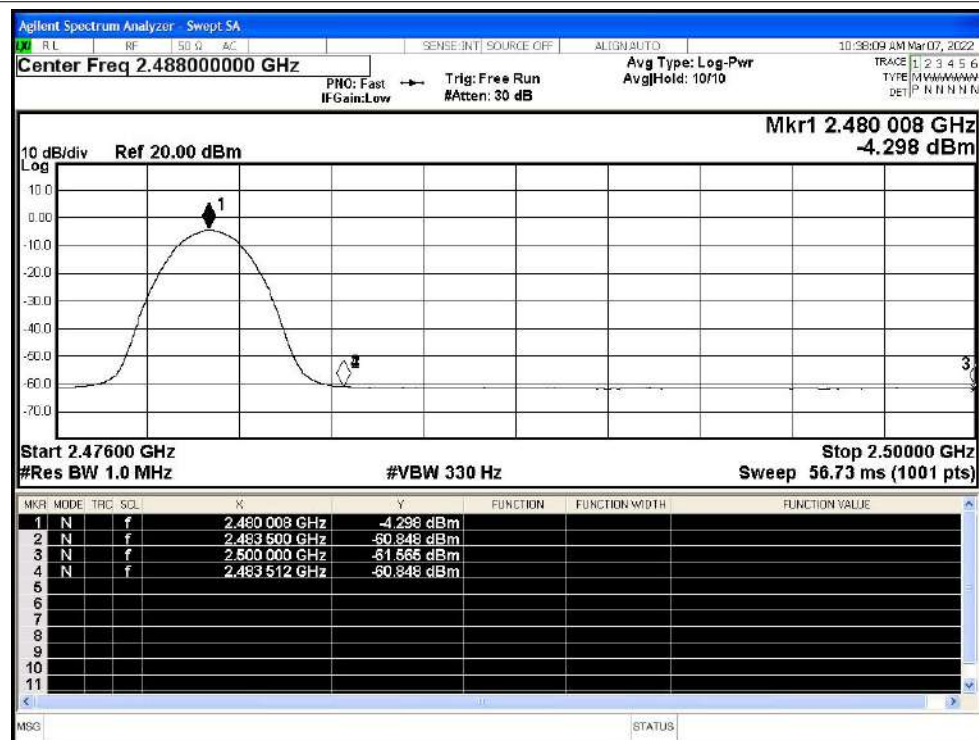


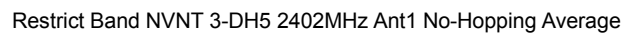
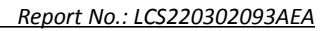


## Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



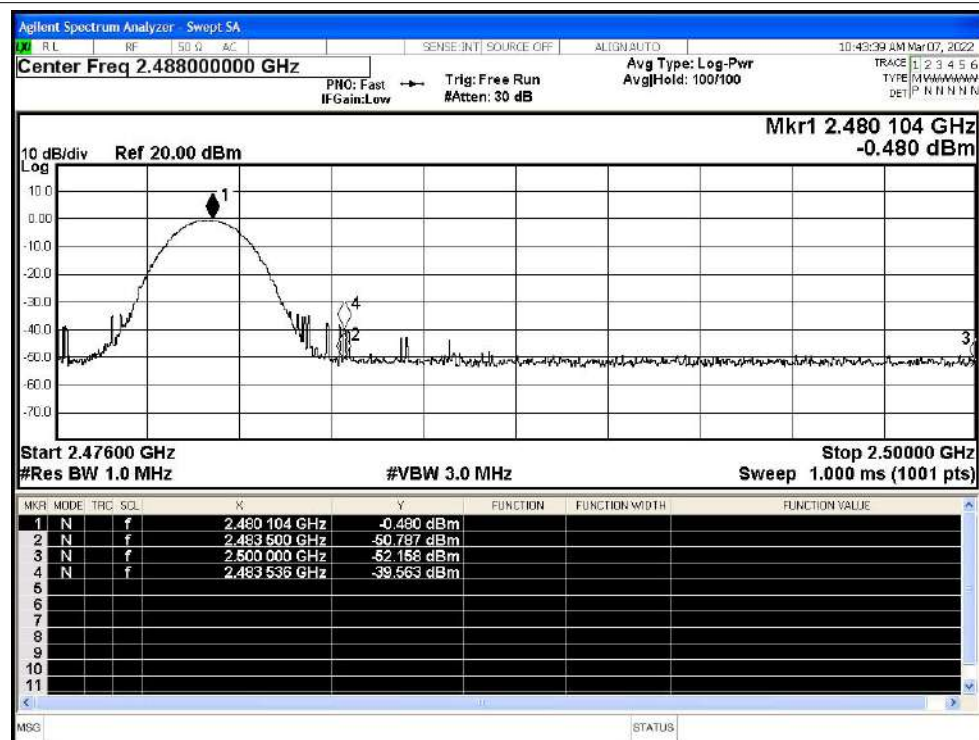
## Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average







## Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Peak



## Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Average

