



## Appendix A

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

Product Name: projector

Test Model: Sun700

#### Environmental Conditions

|                    |            |
|--------------------|------------|
| Temperature:       | 23.8°C     |
| Relative Humidity: | 52.1%      |
| ATM Pressure:      | 100.0 kPa  |
| Test Engineer:     | Paddi Chen |
| Supervised by:     | Nick Peng  |



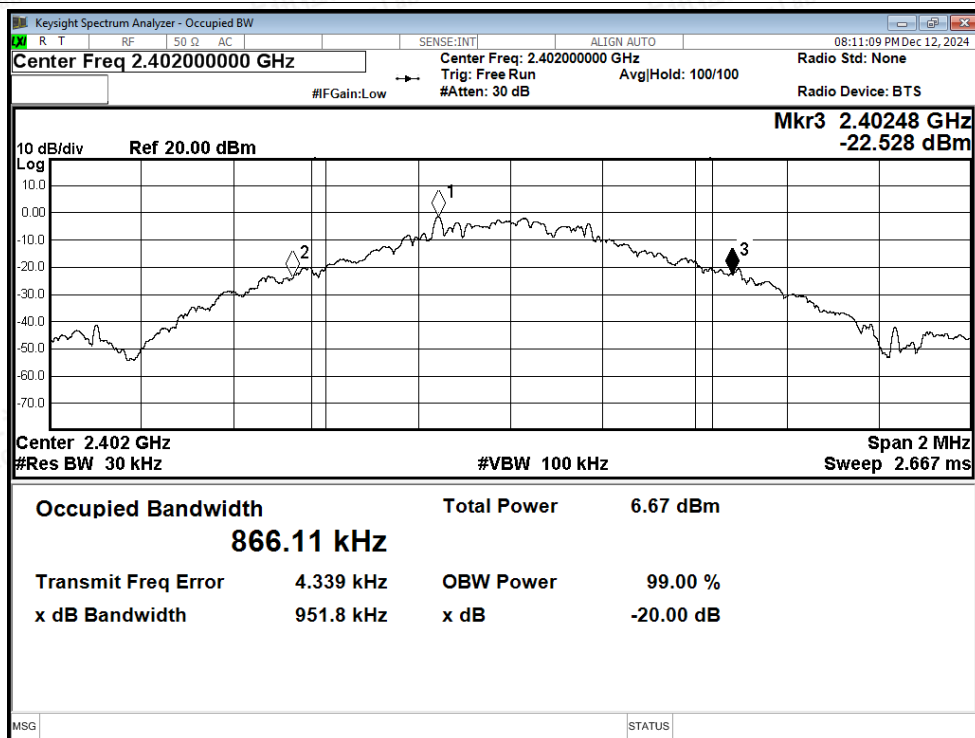
## A.1 -20dB Bandwidth

| Condition | Mode  | Frequency (MHz) | Antenna | -20 dB Bandwidth (MHz) | Limit -20 dB Bandwidth (MHz) | Verdict |
|-----------|-------|-----------------|---------|------------------------|------------------------------|---------|
| NVNT      | 1-DH5 | 2402            | Ant3    | 0.952                  | 0                            | Pass    |
| NVNT      | 1-DH5 | 2441            | Ant3    | 0.948                  | 0                            | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant3    | 1.013                  | 0                            | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant3    | 1.285                  | 0                            | Pass    |
| NVNT      | 2-DH5 | 2441            | Ant3    | 1.287                  | 0                            | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant3    | 1.312                  | 0                            | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant3    | 1.303                  | 0                            | Pass    |
| NVNT      | 3-DH5 | 2441            | Ant3    | 1.297                  | 0                            | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant3    | 1.289                  | 0                            | Pass    |

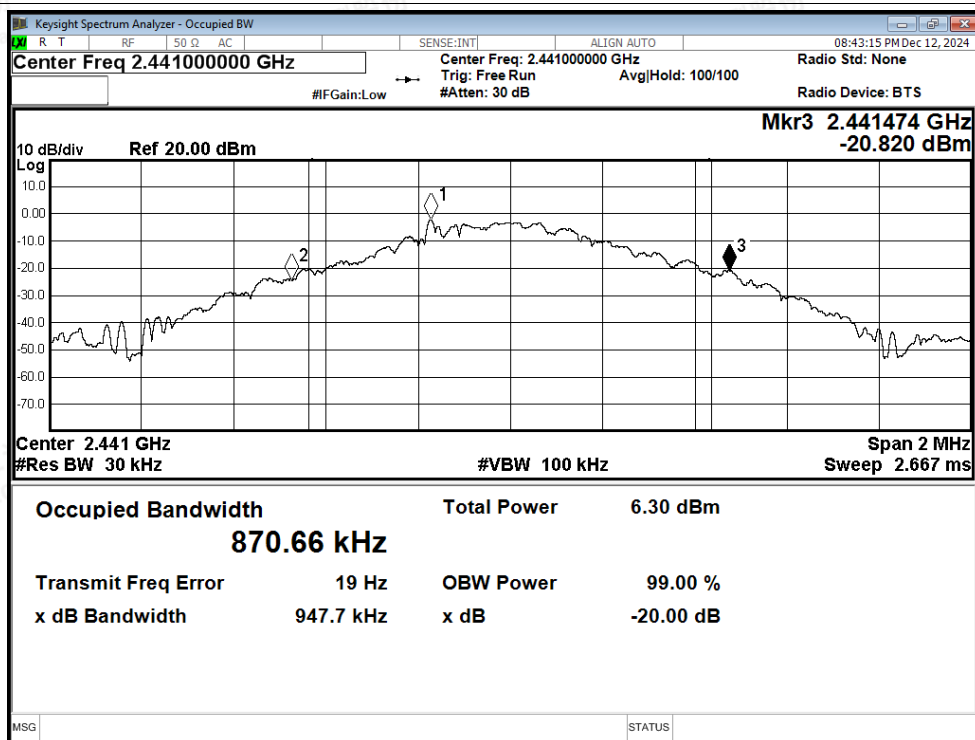


## Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant3

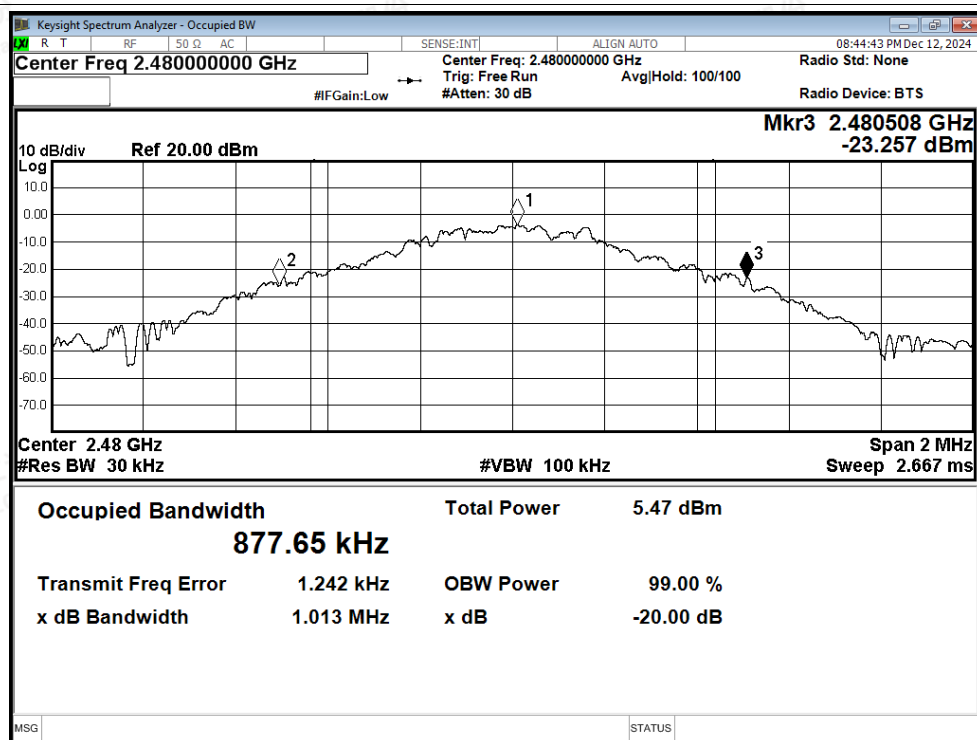


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant3

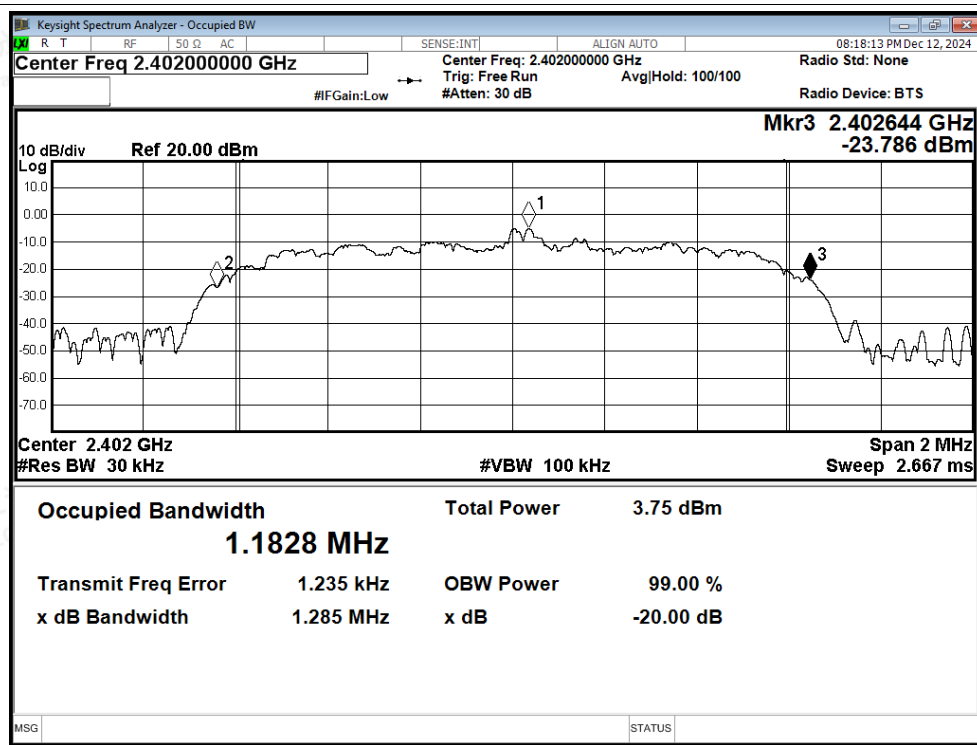




## -20dB Bandwidth NVNT 1-DH5 2480MHz Ant3

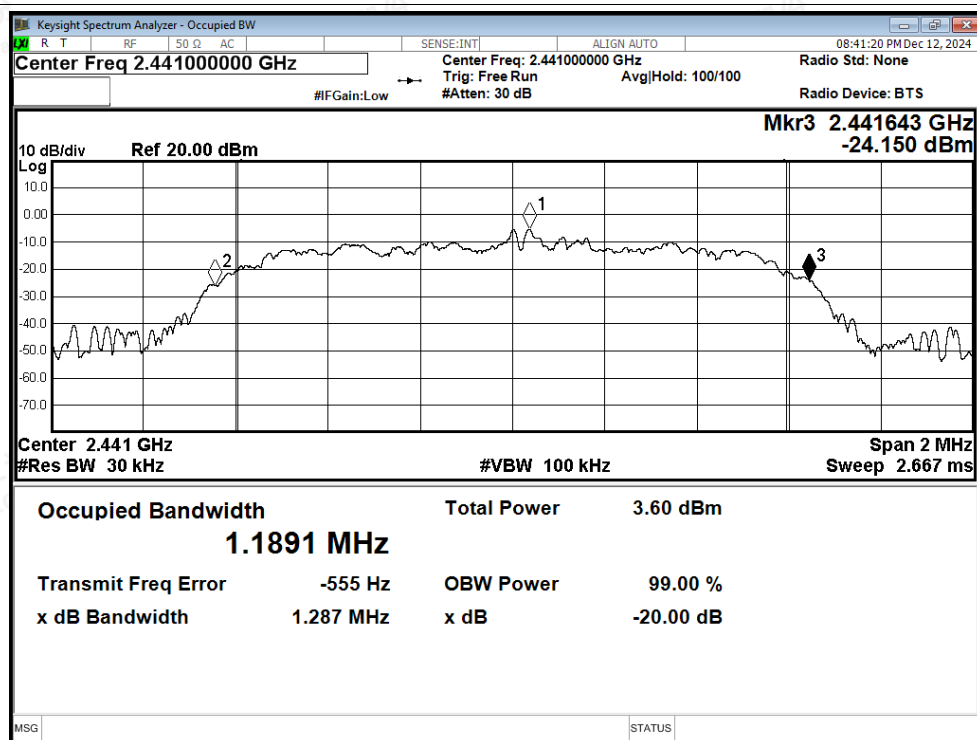


## -20dB Bandwidth NVNT 2-DH5 2402MHz Ant3

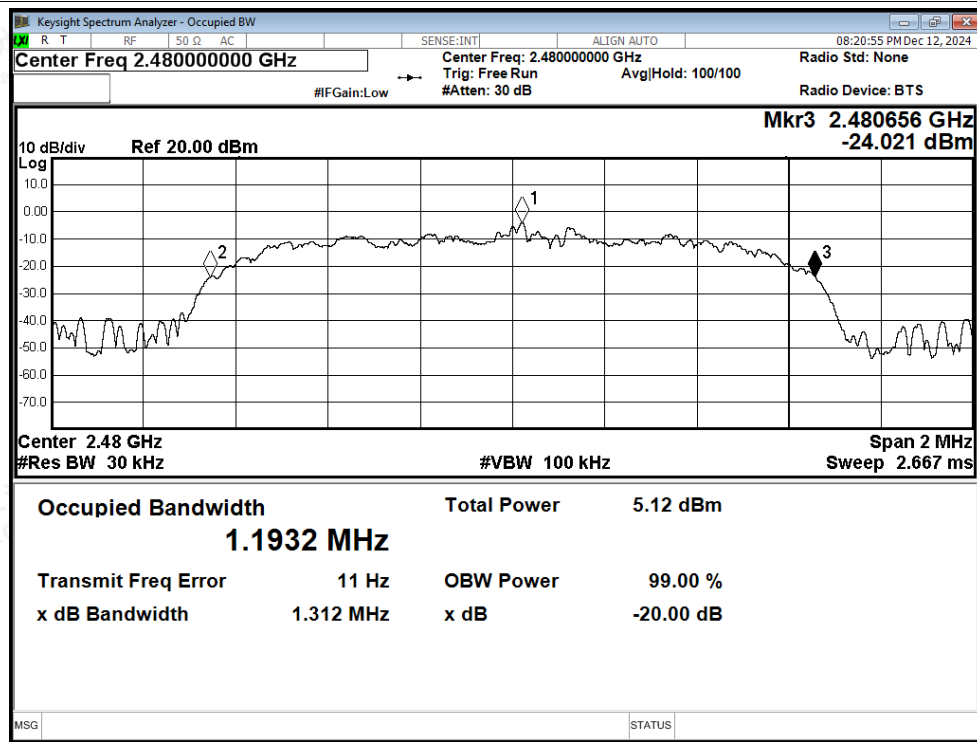




## -20dB Bandwidth NVNT 2-DH5 2441MHz Ant3

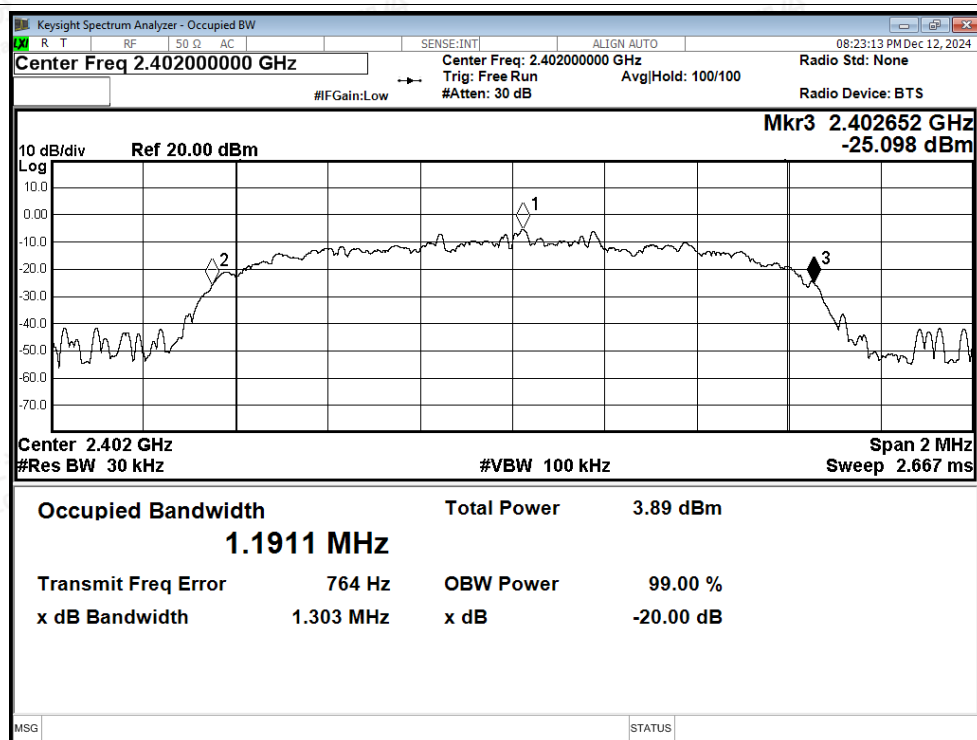


## -20dB Bandwidth NVNT 2-DH5 2480MHz Ant3

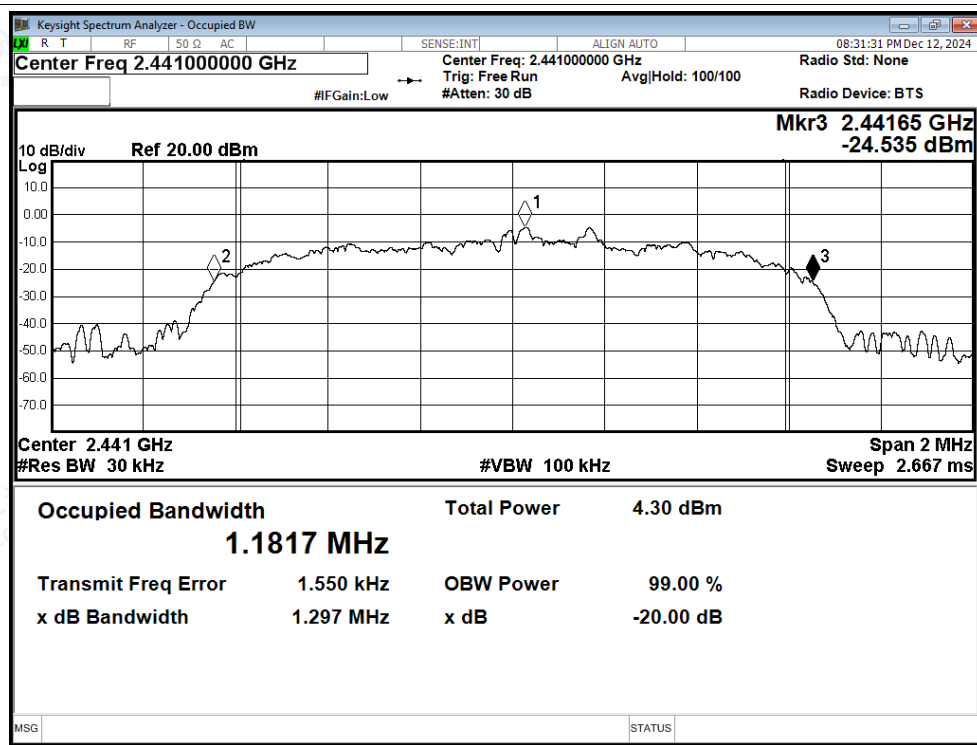


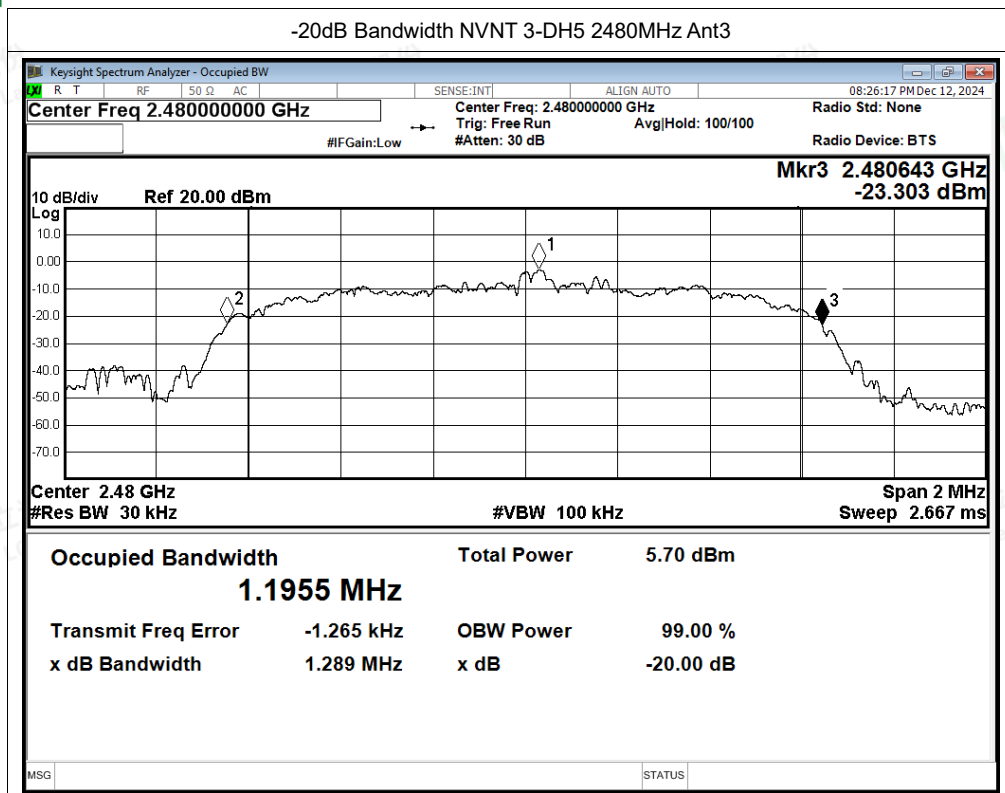


## -20dB Bandwidth NVNT 3-DH5 2402MHz Ant3



## -20dB Bandwidth NVNT 3-DH5 2441MHz Ant3







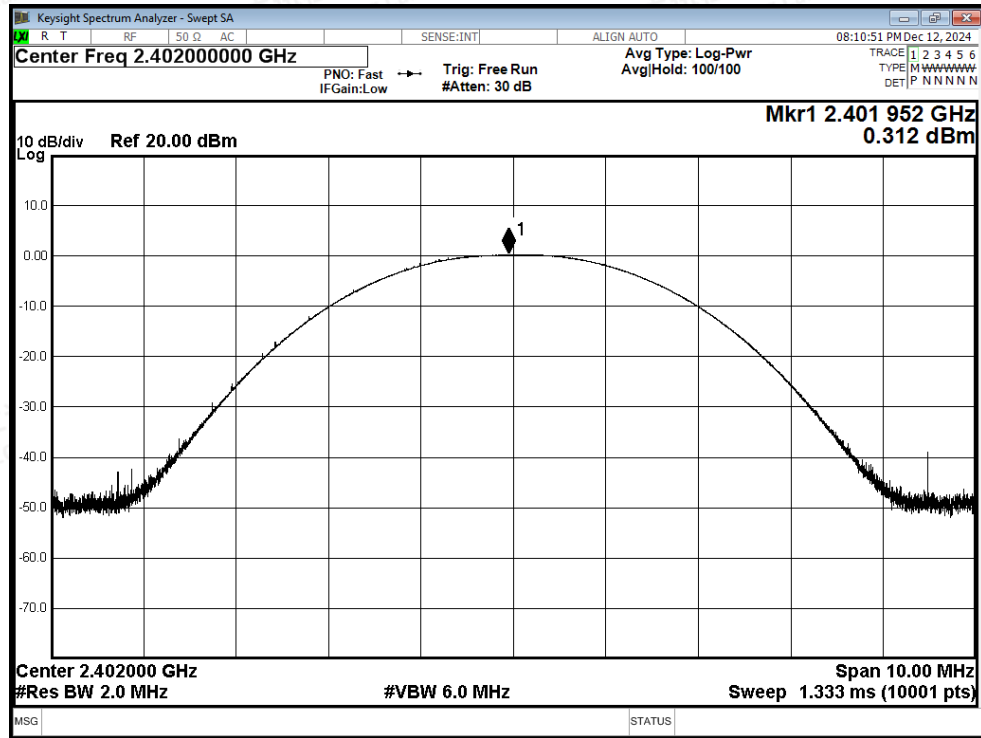
## A.2 Maximum Peak Conducted Output Power

| Condition | Mode  | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|-------|-----------------|---------|-----------------------|-------------|---------|
| NVNT      | 1-DH5 | 2402            | Ant3    | 0.31                  | 21          | Pass    |
| NVNT      | 1-DH5 | 2441            | Ant3    | 0.21                  | 21          | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant3    | -0.75                 | 21          | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant3    | -0.59                 | 21          | Pass    |
| NVNT      | 2-DH5 | 2441            | Ant3    | -0.64                 | 21          | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant3    | 1.03                  | 21          | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant3    | -0.32                 | 21          | Pass    |
| NVNT      | 3-DH5 | 2441            | Ant3    | -0.07                 | 21          | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant3    | 1.39                  | 21          | Pass    |

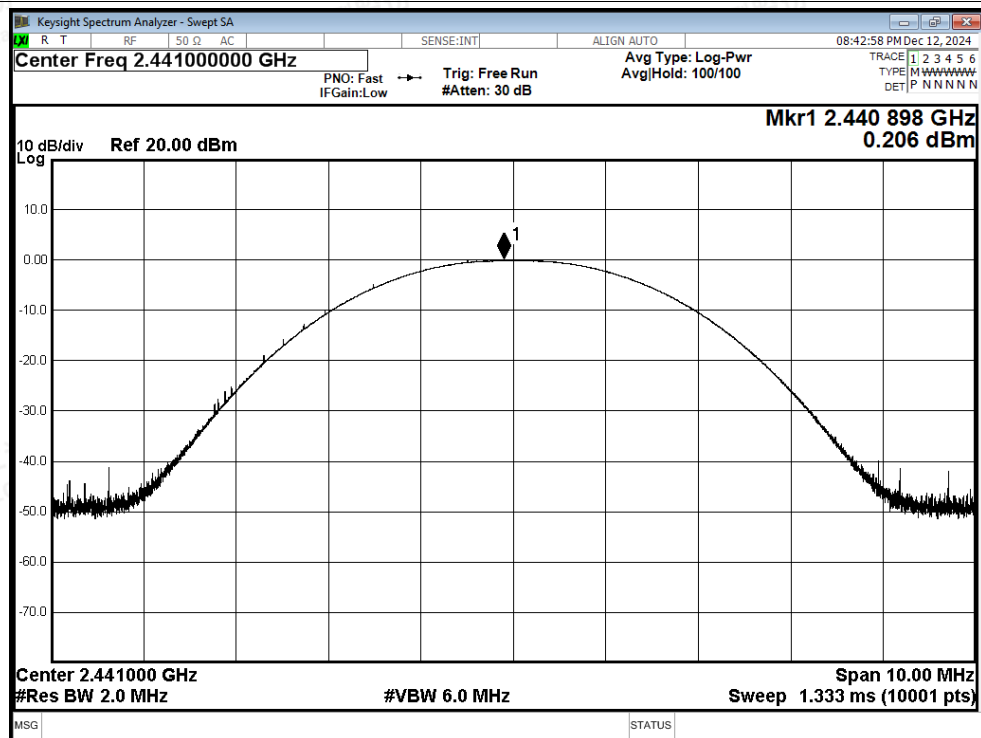


## Test Graphs

Power NVNT 1-DH5 2402MHz Ant3

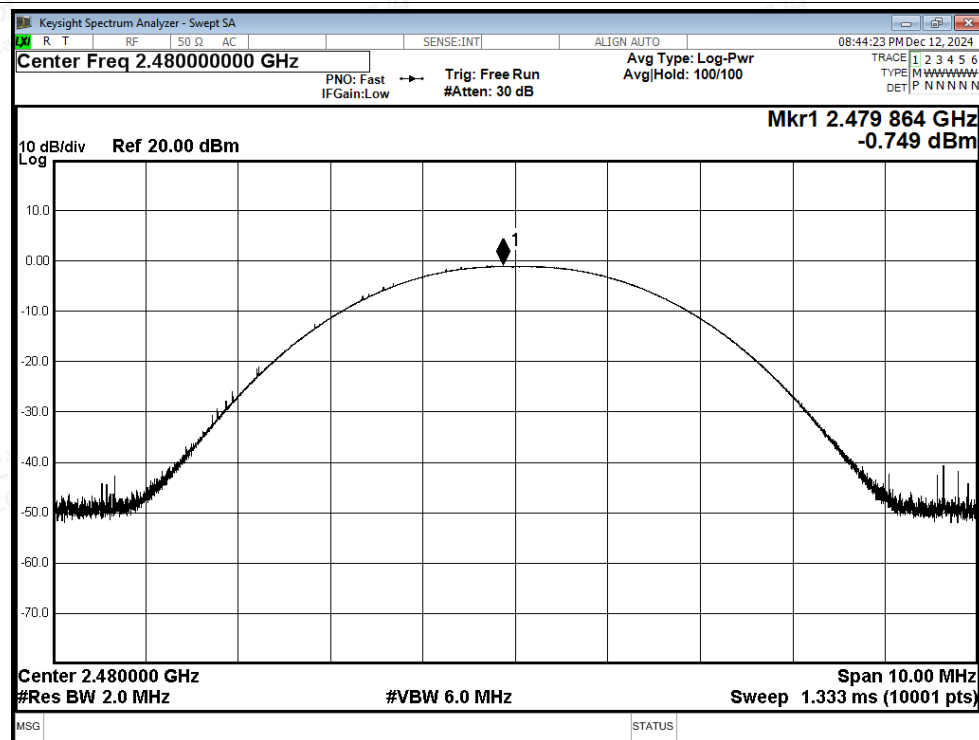


Power NVNT 1-DH5 2441MHz Ant3

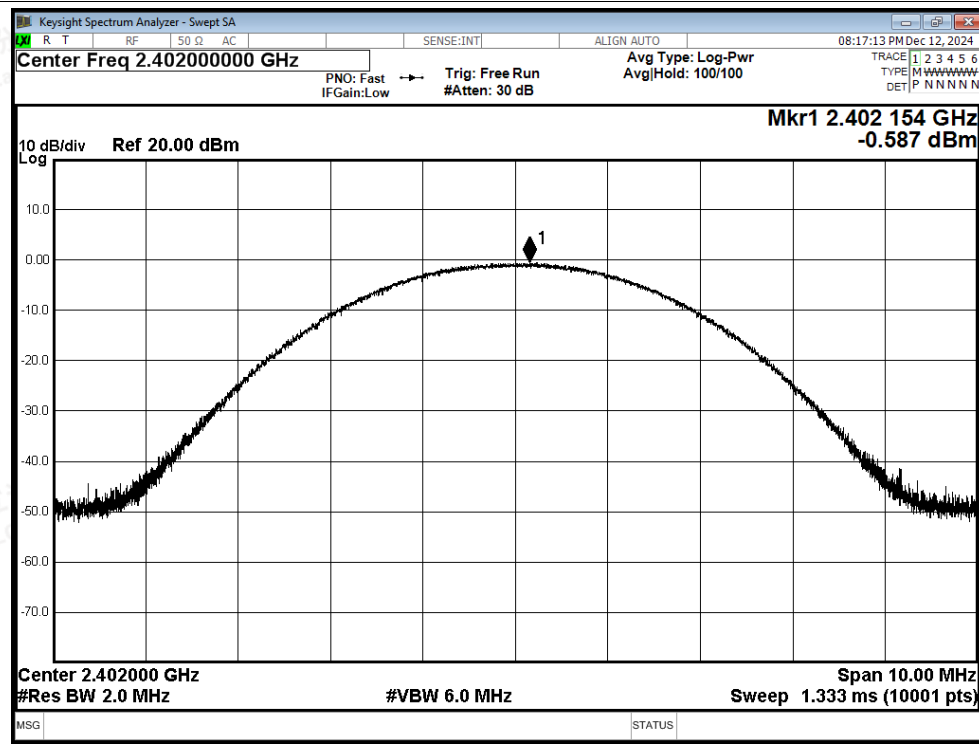




Power NVNT 1-DH5 2480MHz Ant3

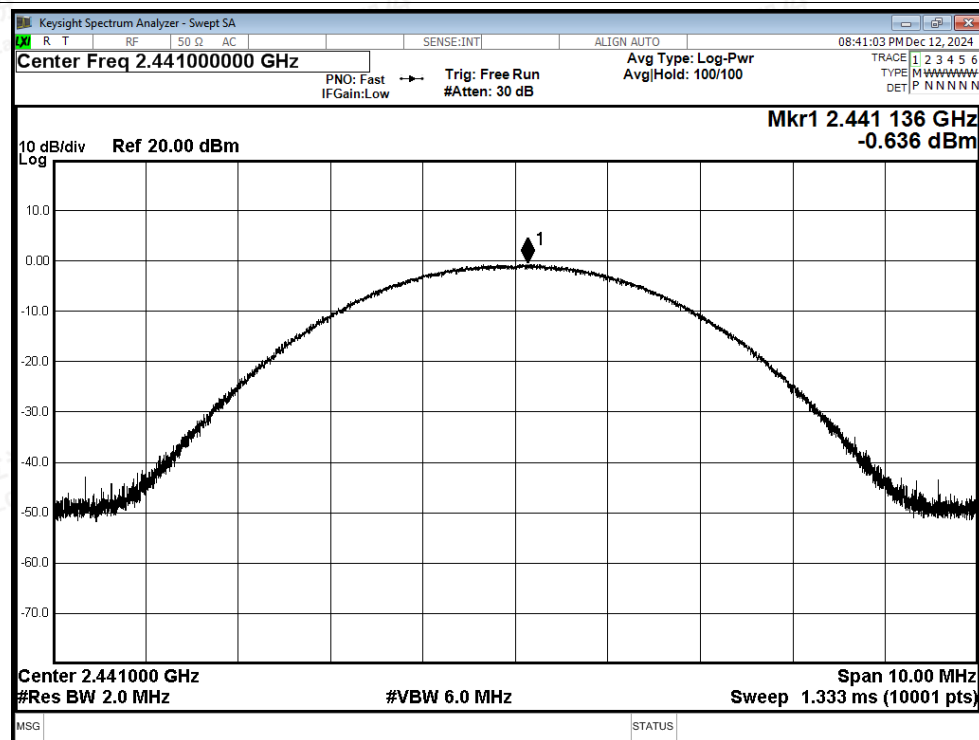


Power NVNT 2-DH5 2402MHz Ant3

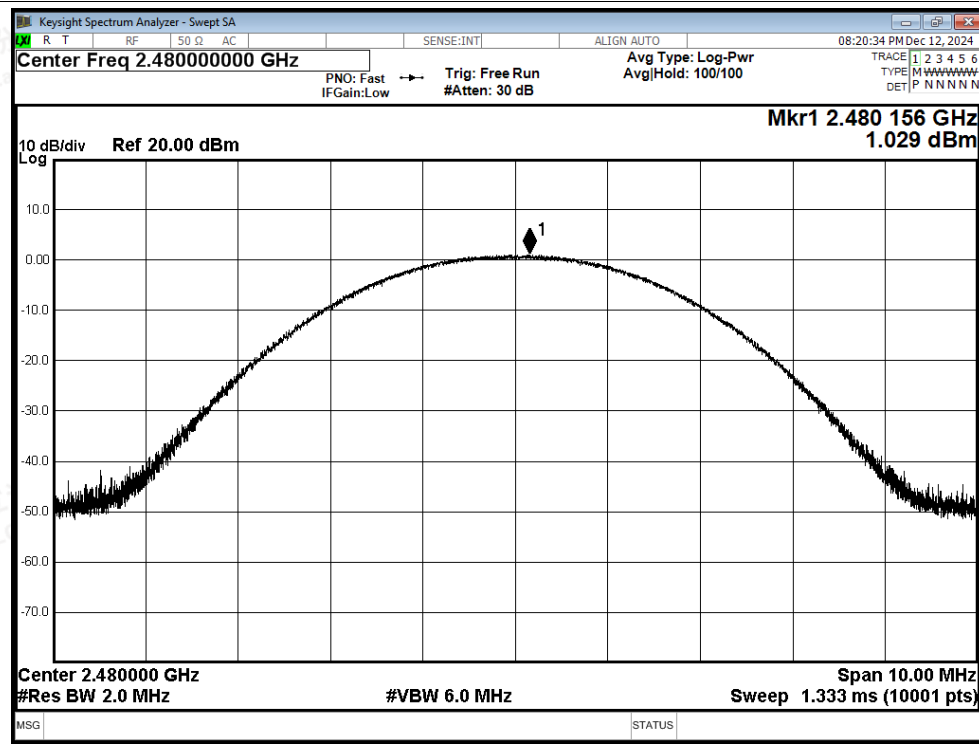




Power NVNT 2-DH5 2441MHz Ant3

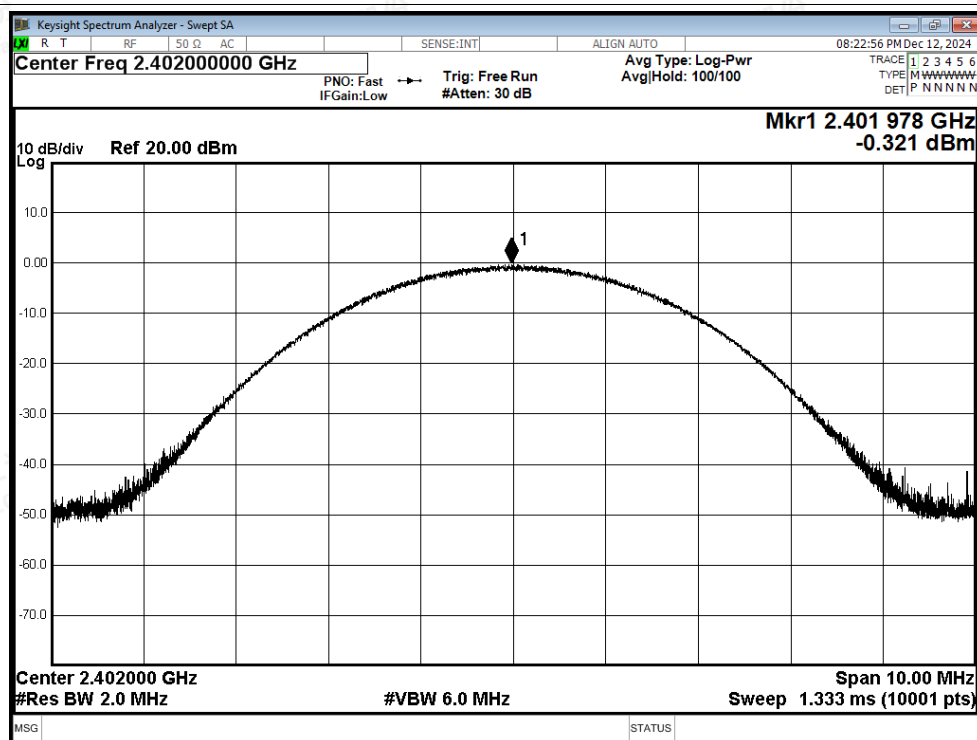


Power NVNT 2-DH5 2480MHz Ant3

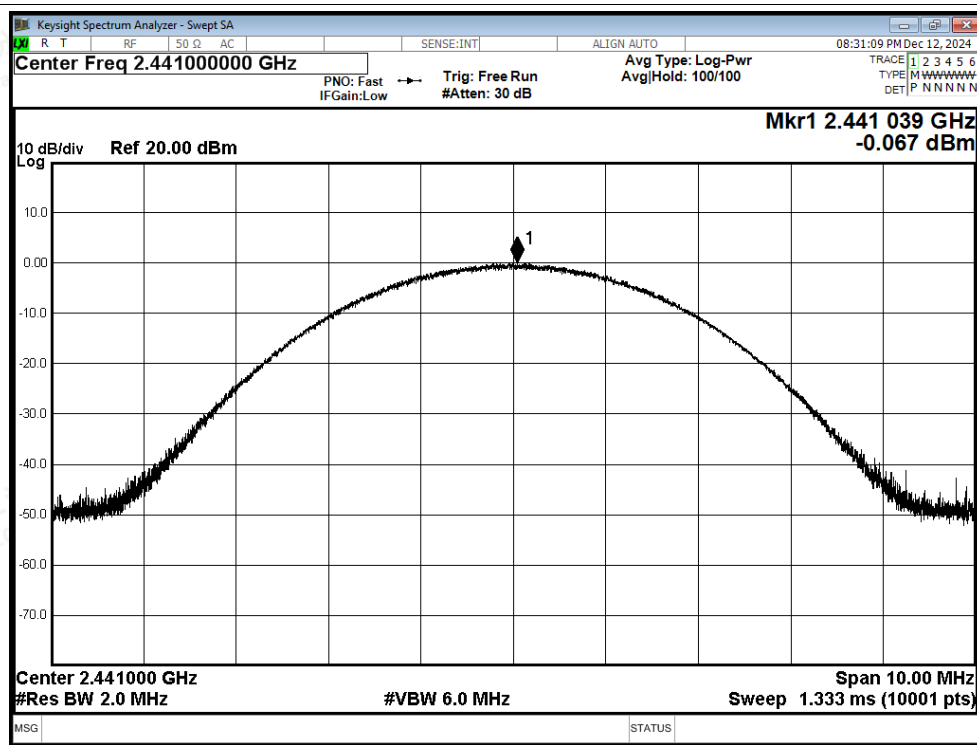


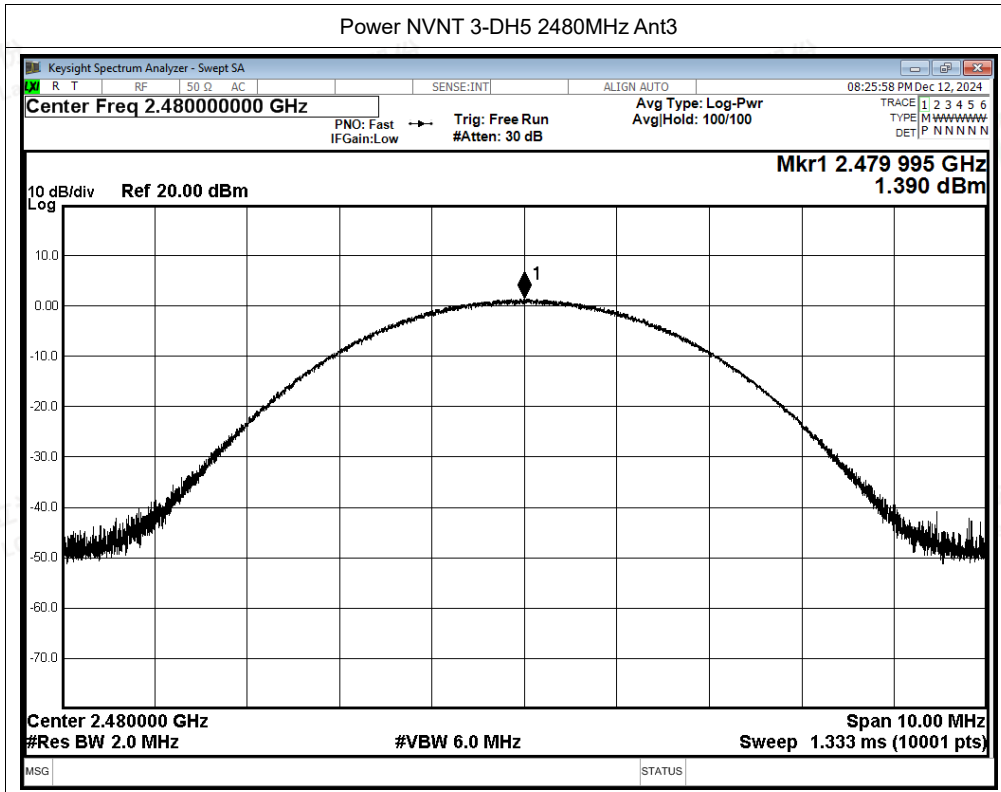


Power NVNT 3-DH5 2402MHz Ant3



Power NVNT 3-DH5 2441MHz Ant3





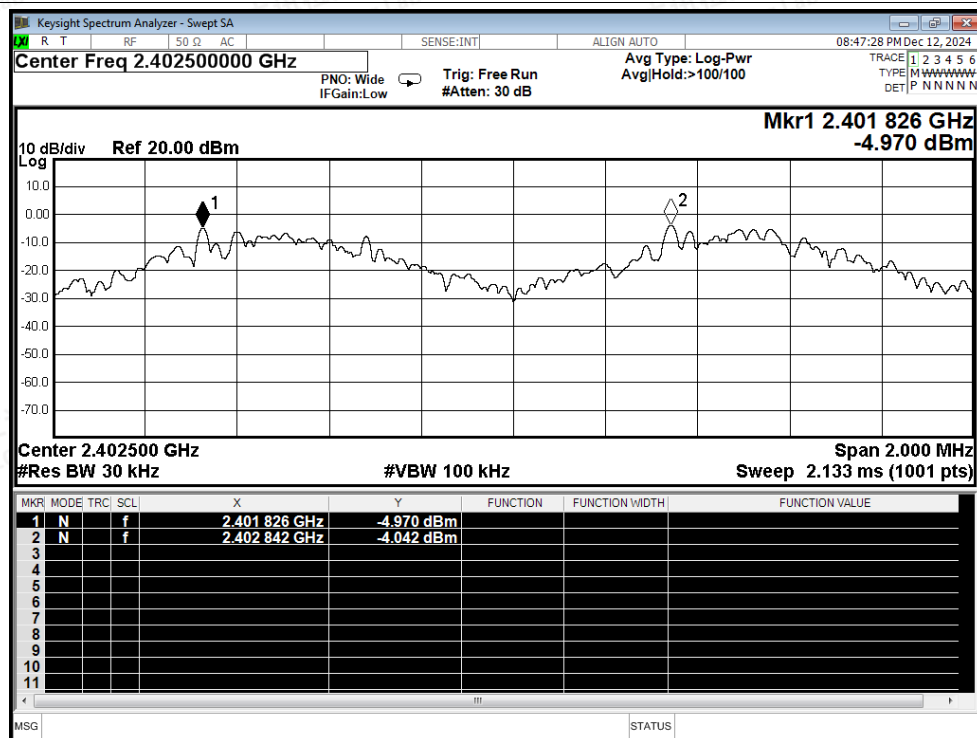


### A.3 Carrier Frequencies Separation

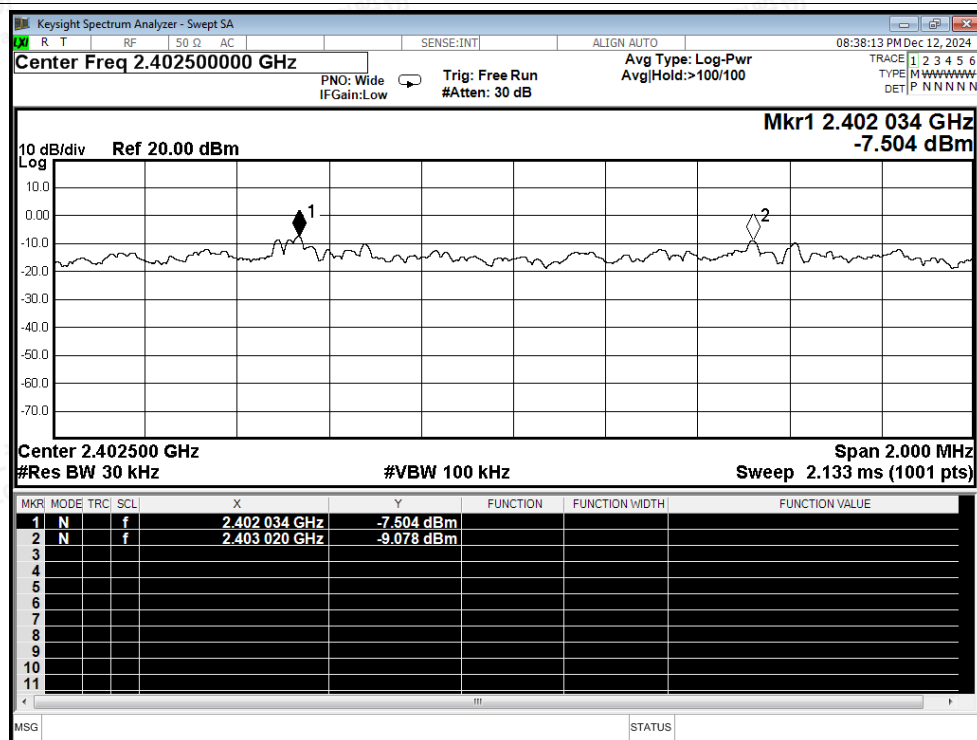
| Condition | Mode  | Antenna | Hopping Freq1 (MHz) | Hopping Freq2 (MHz) | HFS (MHz) | Limit (MHz) | Verdict |
|-----------|-------|---------|---------------------|---------------------|-----------|-------------|---------|
| NVNT      | 1-DH5 | Ant3    | 2401.826            | 2402.842            | 1.016     | 0.635       | Pass    |
| NVNT      | 2-DH5 | Ant3    | 2402.034            | 2403.02             | 0.986     | 0.857       | Pass    |
| NVNT      | 3-DH5 | Ant3    | 2402.034            | 2403.008            | 0.974     | 0.869       | Pass    |

## Test Graphs

CFS NVNT 1-DH5 2402MHz Ant3



CFS NVNT 2-DH5 2402MHz Ant3







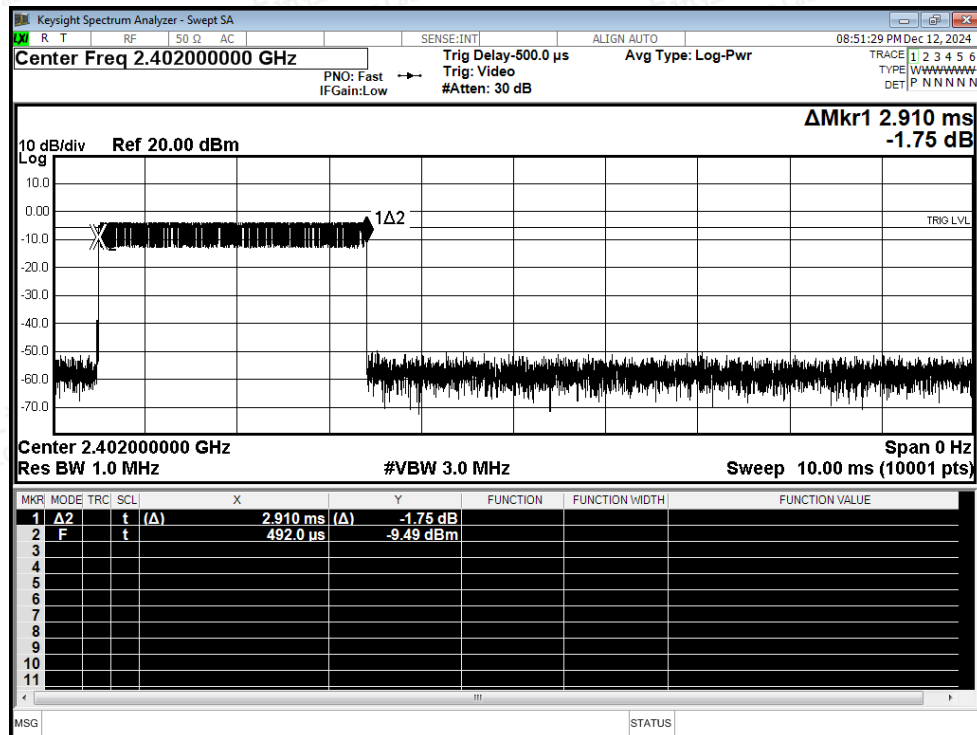
## A.4 Dwell Time

| 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 | 2402               | Ant3    | 2.91               | 276.45                   | 95             | 31600               | 400           | Pass    |
| NVNT      | 2-DH5 | 2402               | Ant3    | 2.898              | 301.392                  | 104            | 31600               | 400           | Pass    |
| NVNT      | 3-DH5 | 2402               | Ant3    | 2.897              | 298.391                  | 103            | 31600               | 400           | Pass    |

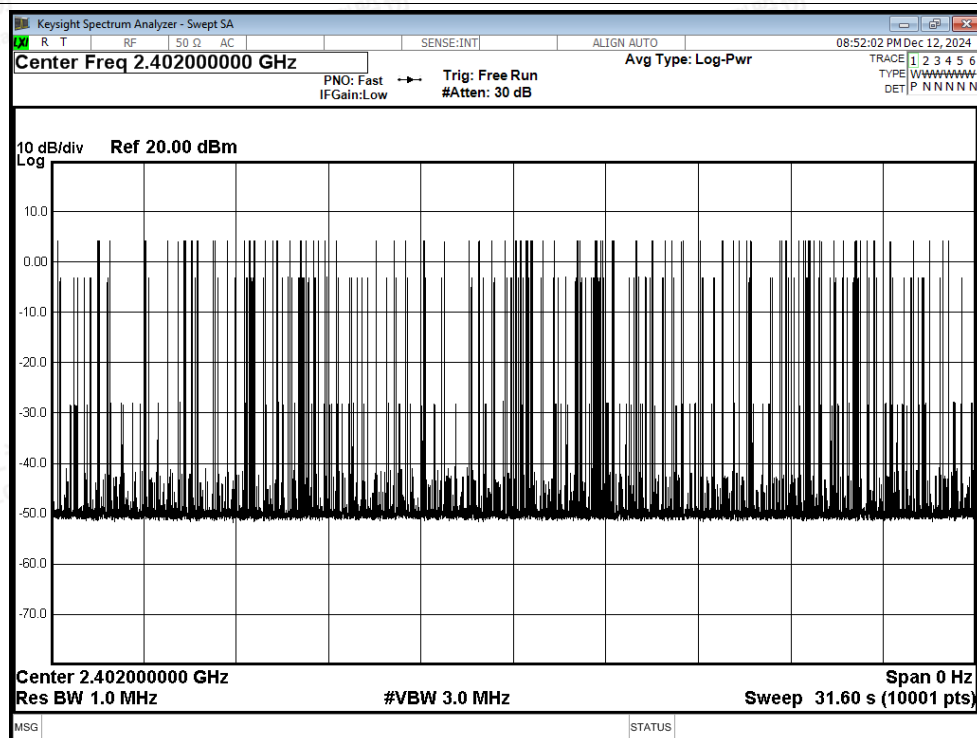


## Test Graphs

## Dwell NVNT 1-DH5 2402MHz Ant3 One Burst

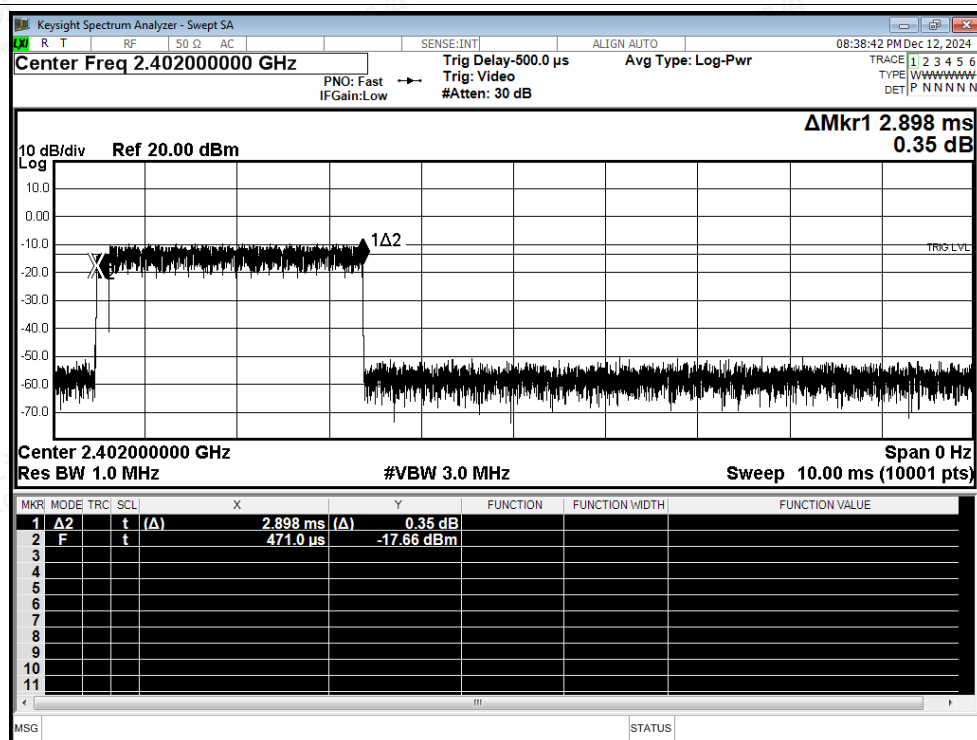


## Dwell NVNT 1-DH5 2402MHz Ant3 Accumulated

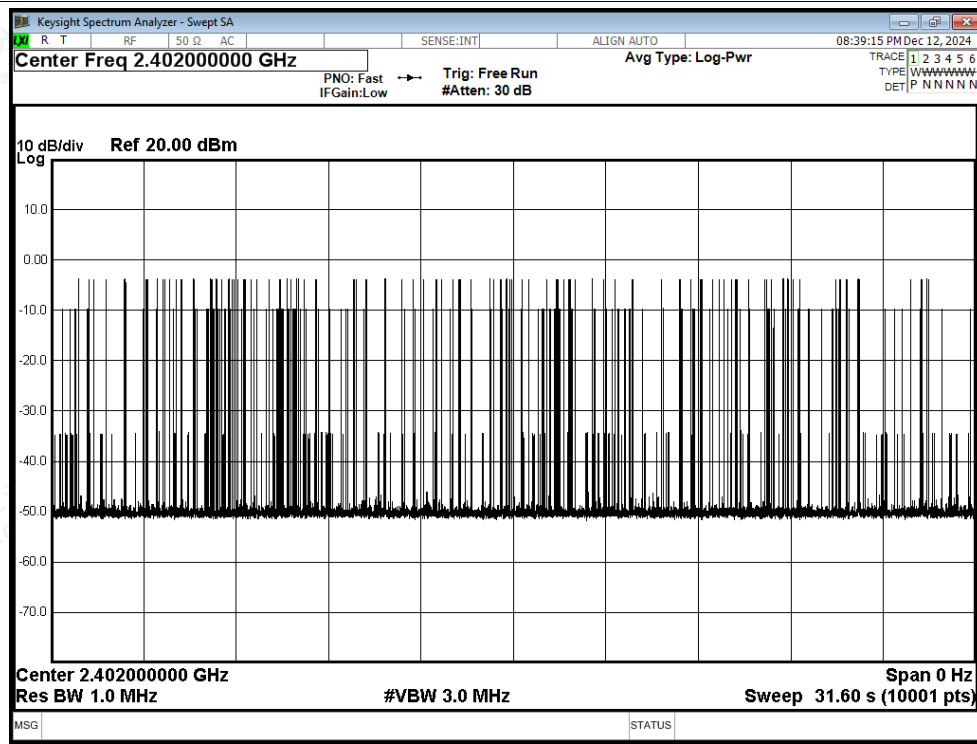




## Dwell NVNT 2-DH5 2402MHz Ant3 One Burst

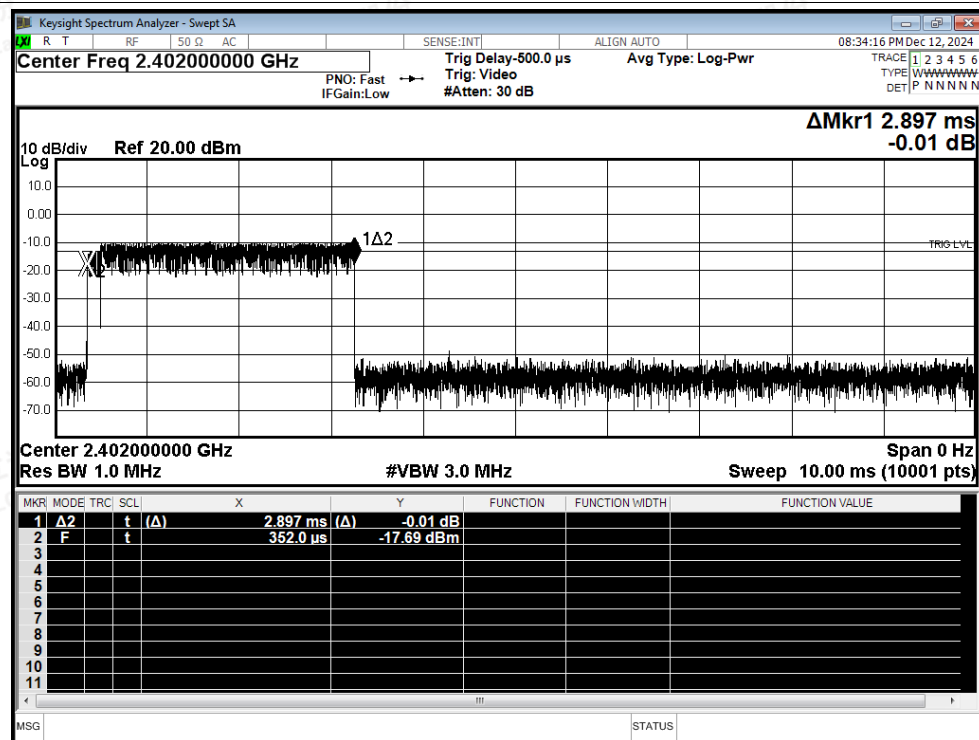


## Dwell NVNT 2-DH5 2402MHz Ant3 Accumulated

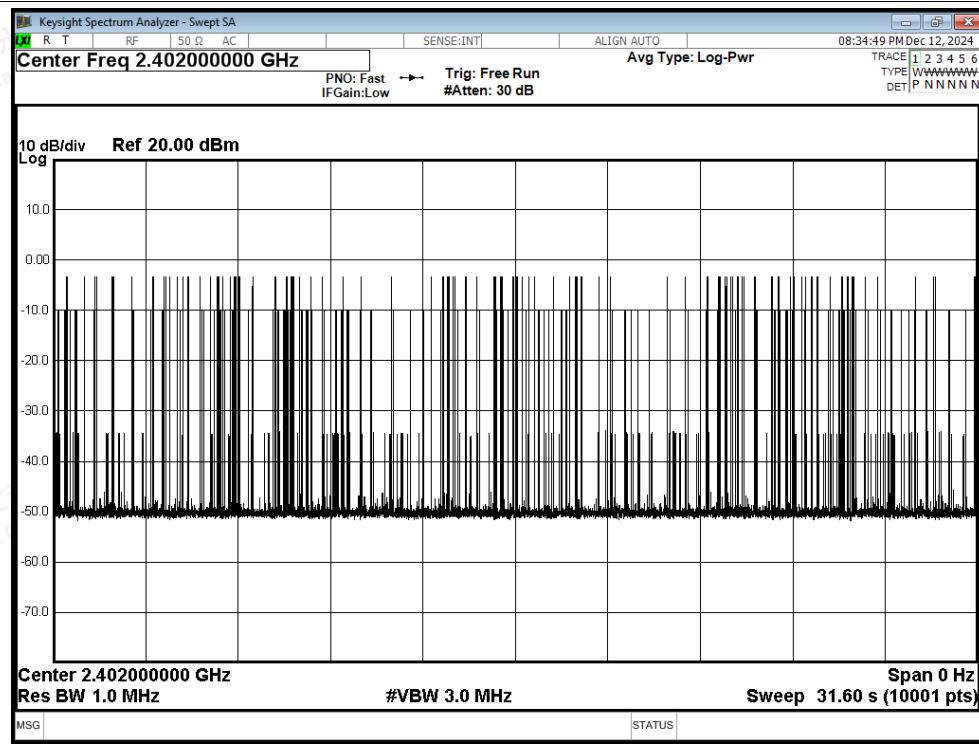




## Dwell NVNT 3-DH5 2402MHz Ant3 One Burst



## Dwell NVNT 3-DH5 2402MHz Ant3 Accumulated



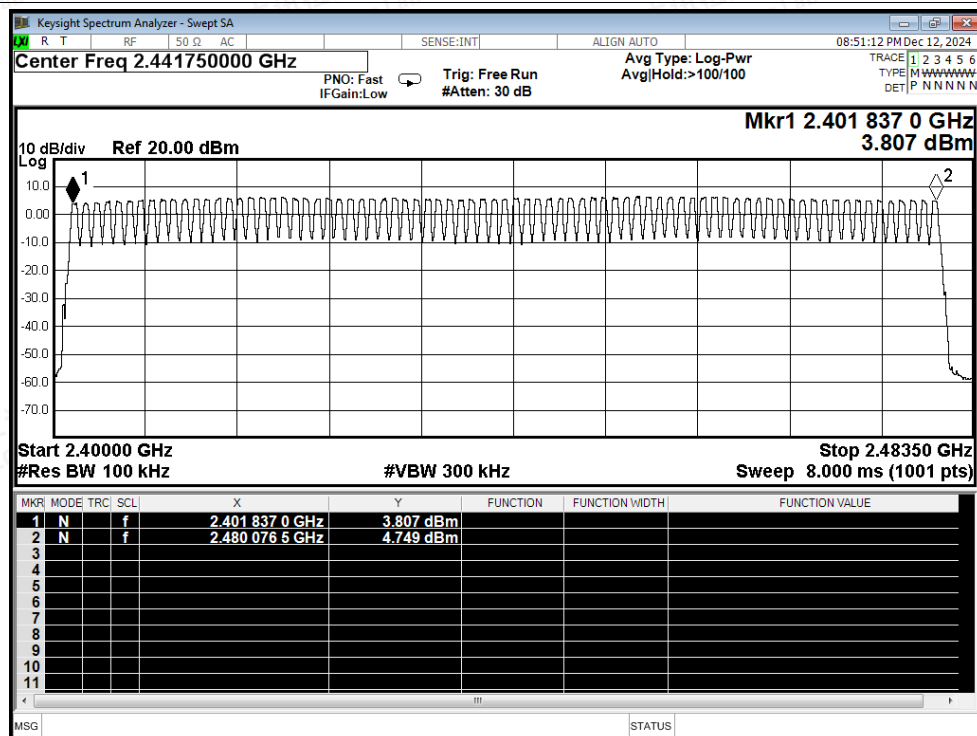


### A.5 Number of Hopping Channel

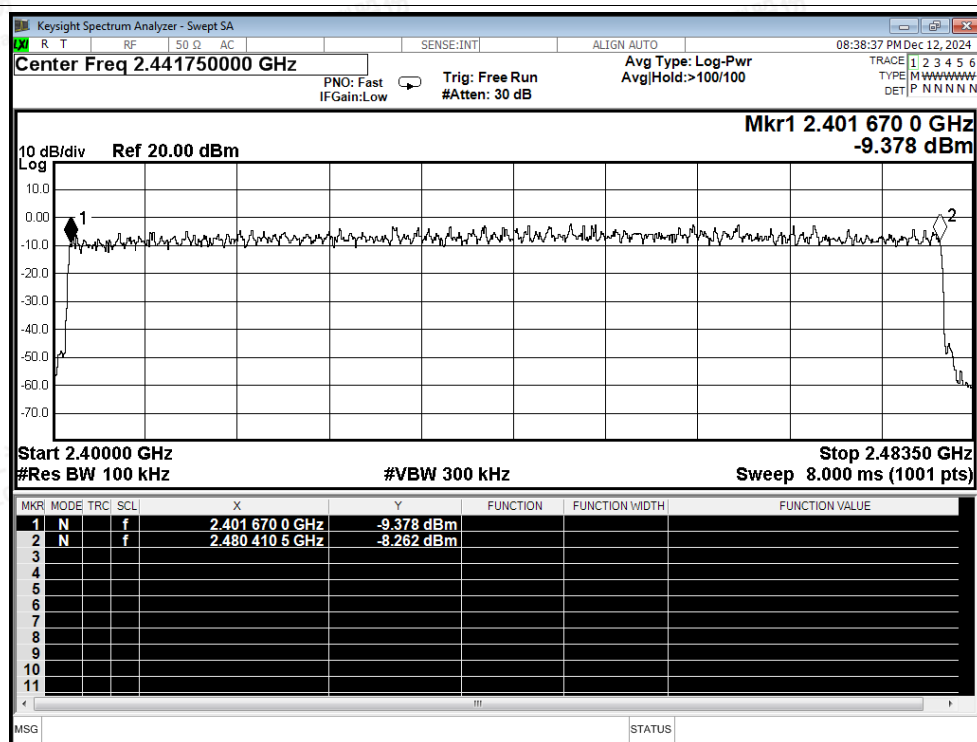
| Condition | Mode  | Antenna | Hopping Number | Limit | Verdict |
|-----------|-------|---------|----------------|-------|---------|
| NVNT      | 1-DH5 | Ant3    | 79             | 15    | Pass    |
| NVNT      | 2-DH5 | Ant3    | 79             | 15    | Pass    |
| NVNT      | 3-DH5 | Ant3    | 79             | 15    | Pass    |

## Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant3



Hopping No. NVNT 2-DH5 2402MHz Ant3







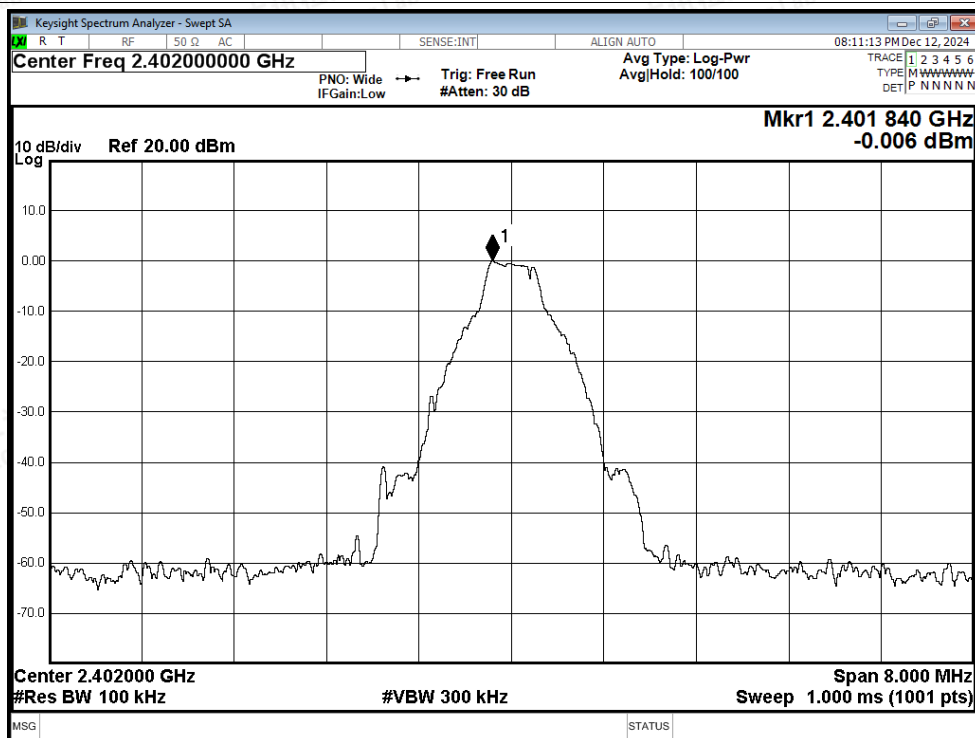
## A.6 Band Edge

| Condition | Mode  | Frequency (MHz) | Antenna | Hopping Mode | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|-------|-----------------|---------|--------------|-----------------|-------------|---------|
| NVNT      | 1-DH5 | 2402            | Ant3    | No-Hopping   | -58.21          | -20         | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant3    | No-Hopping   | -57.37          | -20         | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant3    | No-Hopping   | -52.43          | -20         | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant3    | No-Hopping   | -56.5           | -20         | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant3    | No-Hopping   | -50.47          | -20         | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant3    | No-Hopping   | -55.89          | -20         | Pass    |

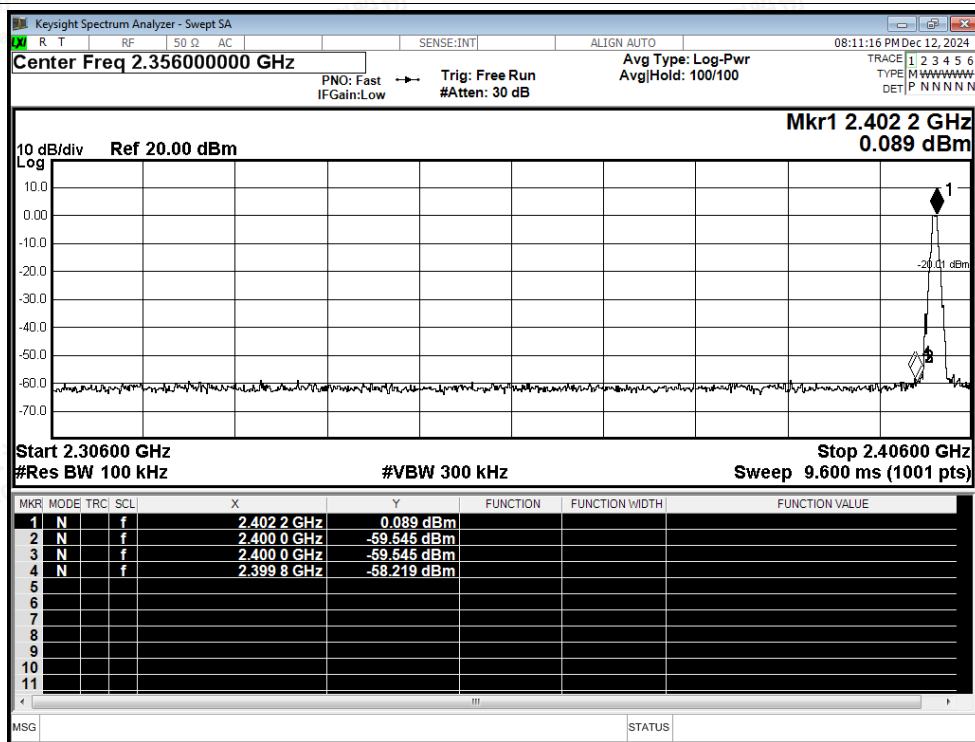


## Test Graphs

## Band Edge NVNT 1-DH5 2402MHz Ant3 No-Hopping Ref

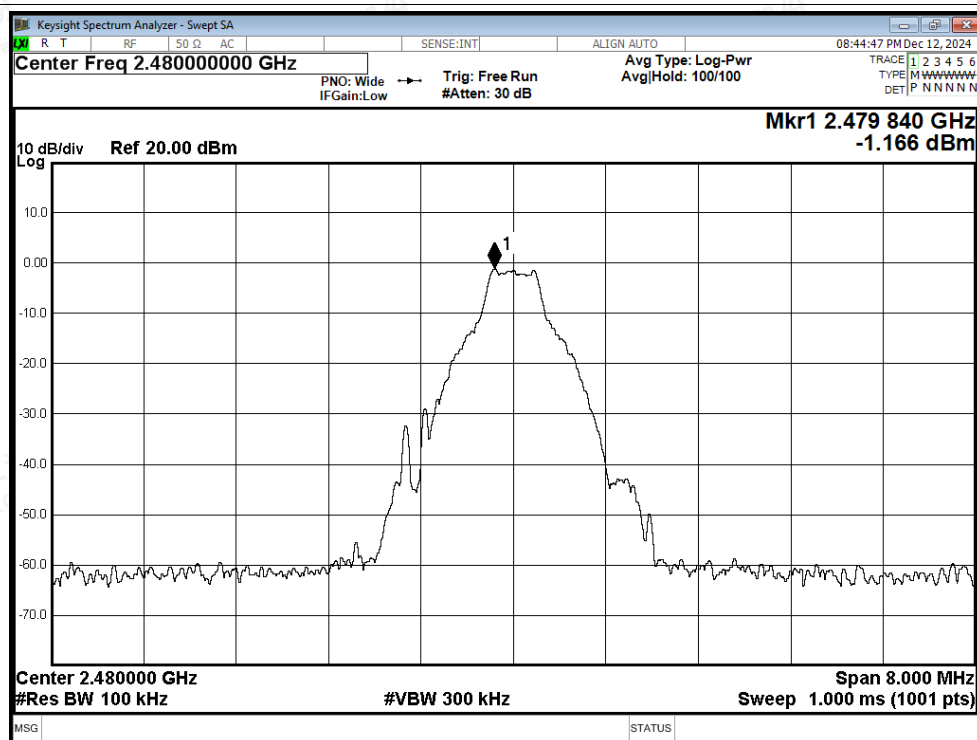


## Band Edge NVNT 1-DH5 2402MHz Ant3 No-Hopping Emission

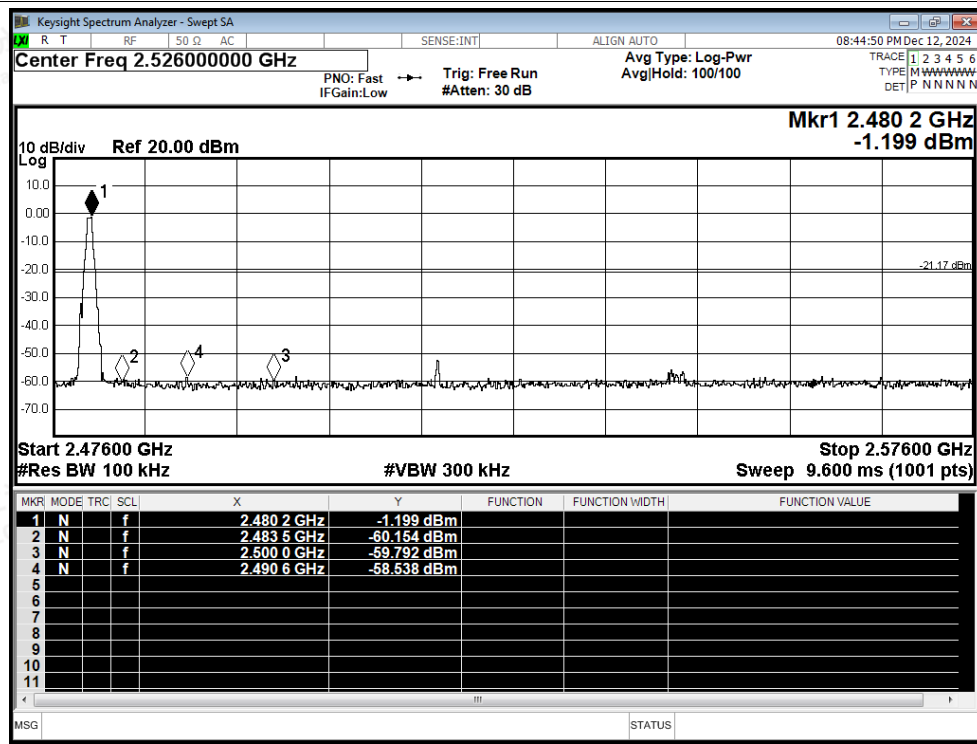




## Band Edge NVNT 1-DH5 2480MHz Ant3 No-Hopping Ref

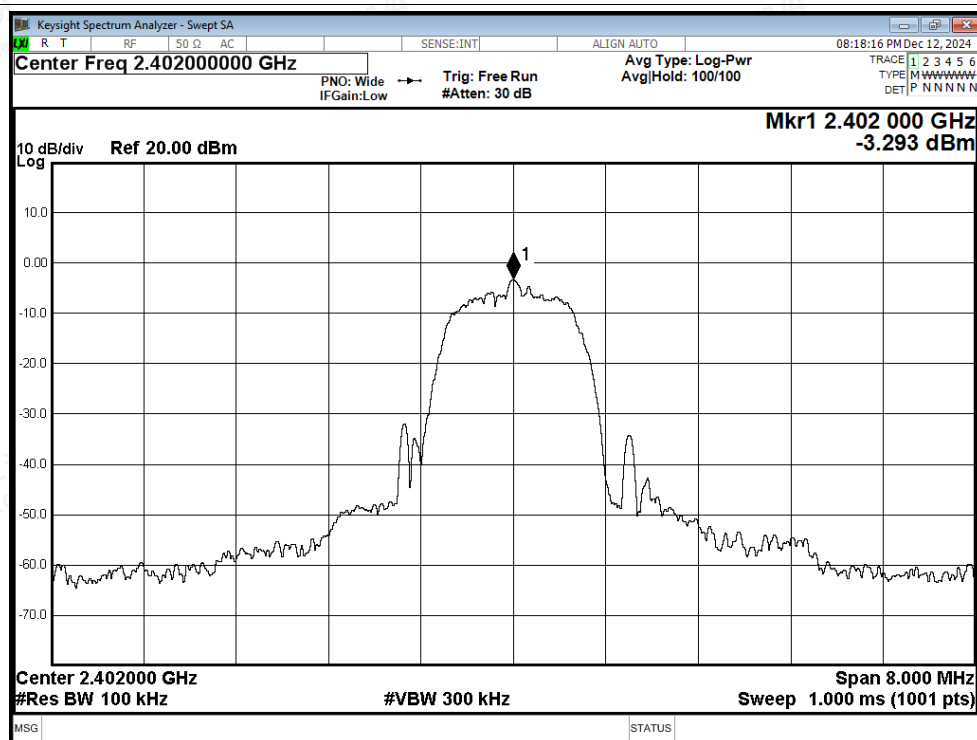


## Band Edge NVNT 1-DH5 2480MHz Ant3 No-Hopping Emission

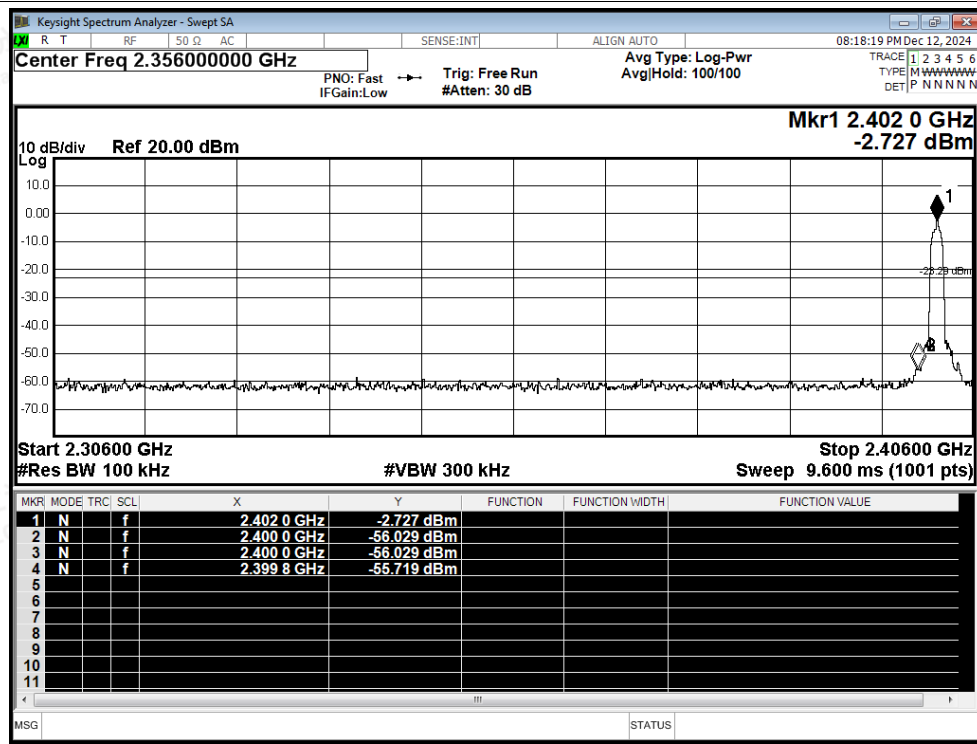




## Band Edge NVNT 2-DH5 2402MHz Ant3 No-Hopping Ref

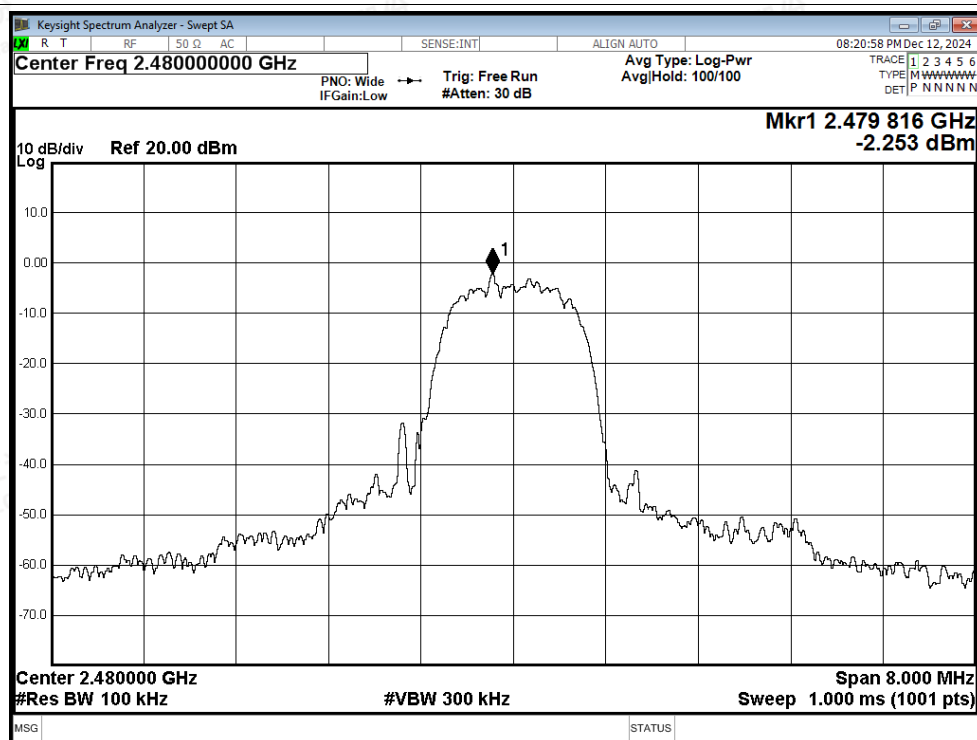


## Band Edge NVNT 2-DH5 2402MHz Ant3 No-Hopping Emission

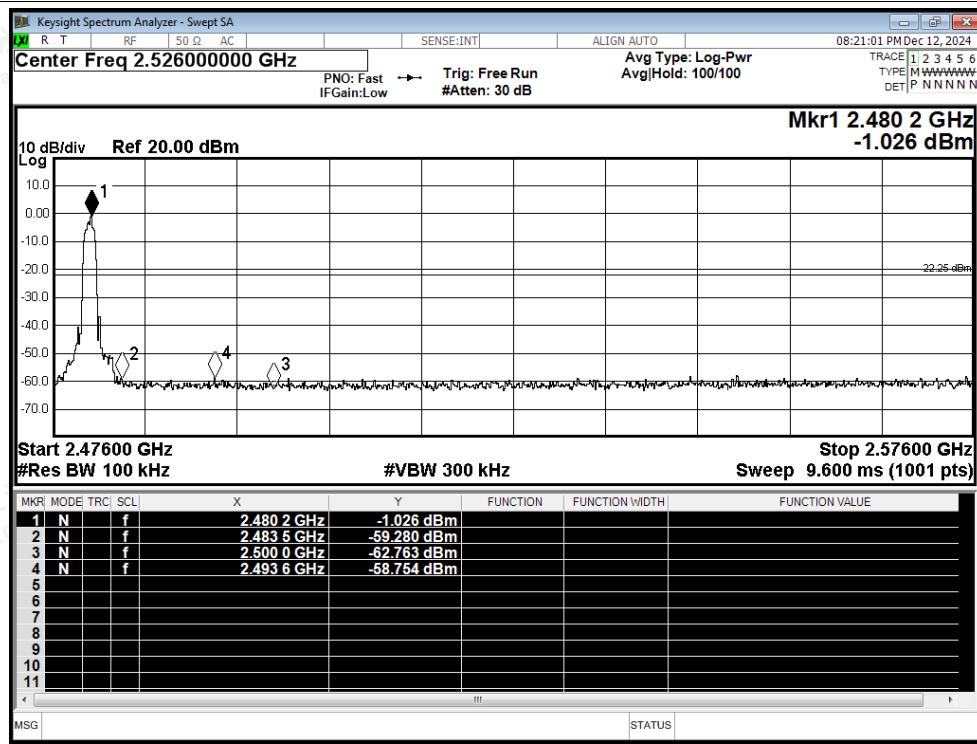


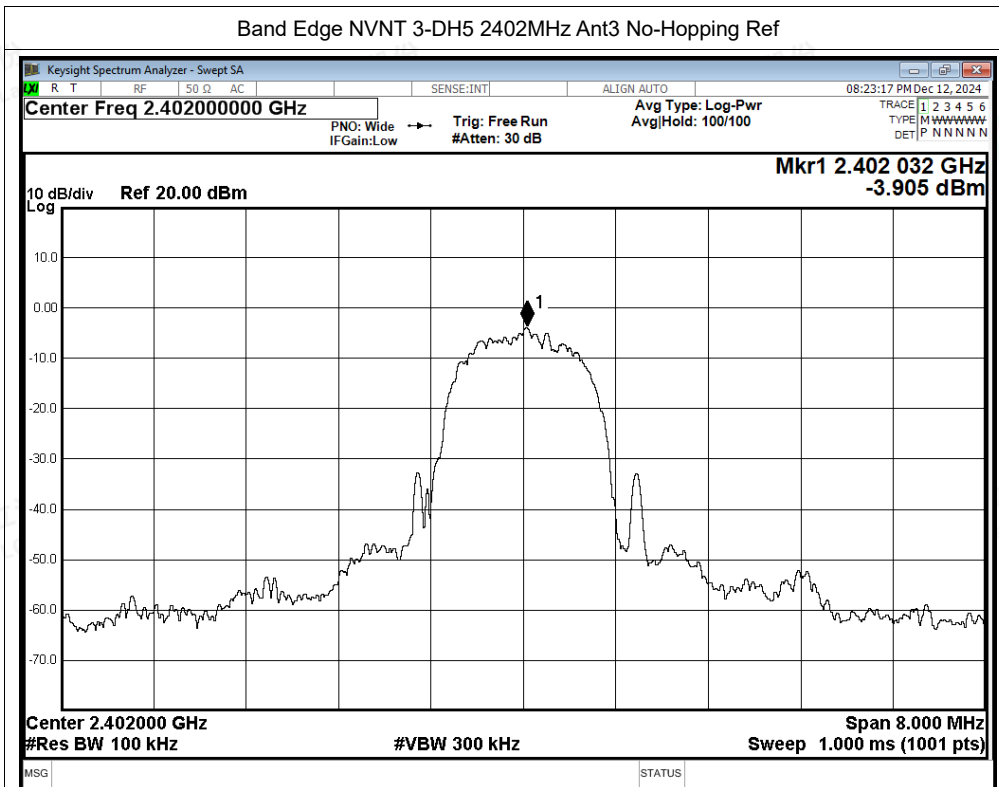


## Band Edge NVNT 2-DH5 2480MHz Ant3 No-Hopping Ref

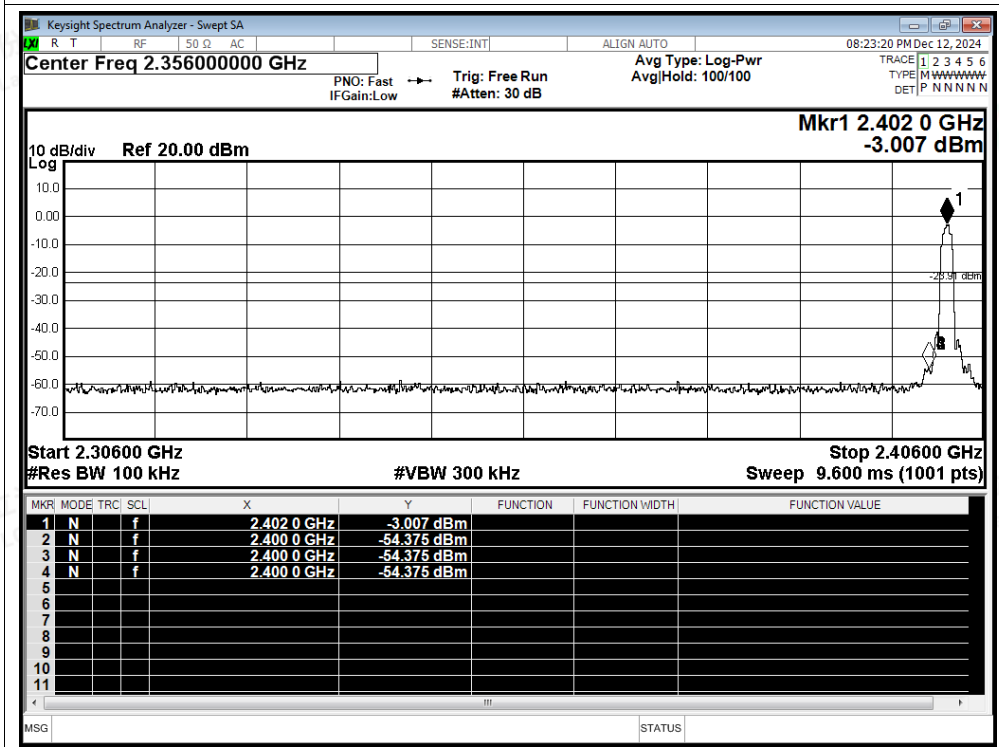


## Band Edge NVNT 2-DH5 2480MHz Ant3 No-Hopping Emission



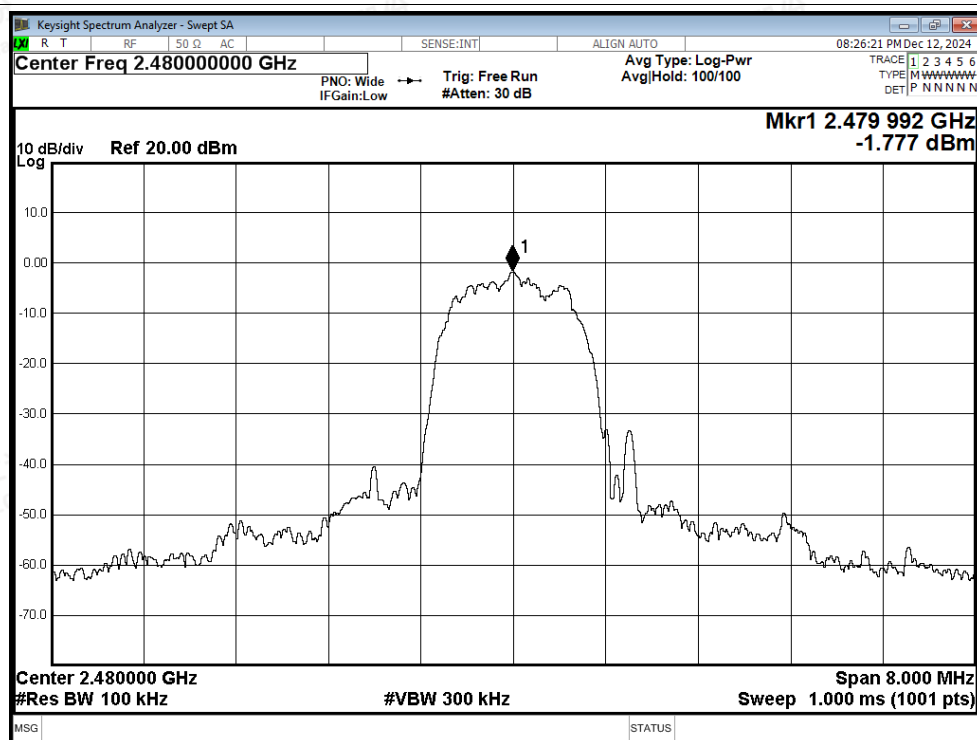


Band Edge NVNT 3-DH5 2402MHz Ant3 No-Hopping Emission

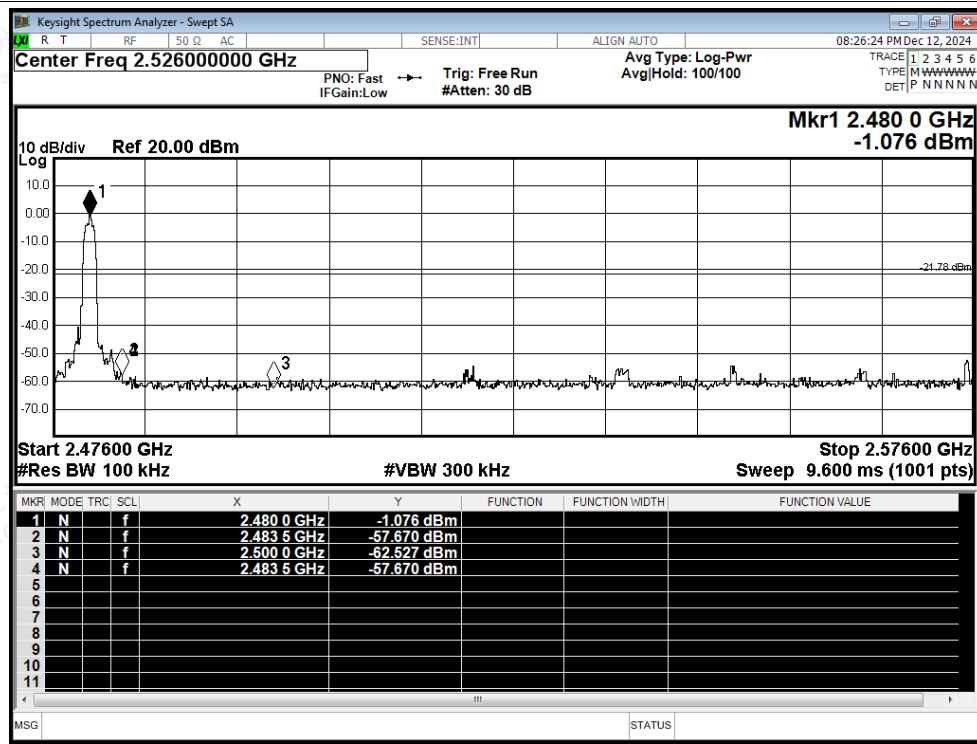




## Band Edge NVNT 3-DH5 2480MHz Ant3 No-Hopping Ref



## Band Edge NVNT 3-DH5 2480MHz Ant3 No-Hopping Emission



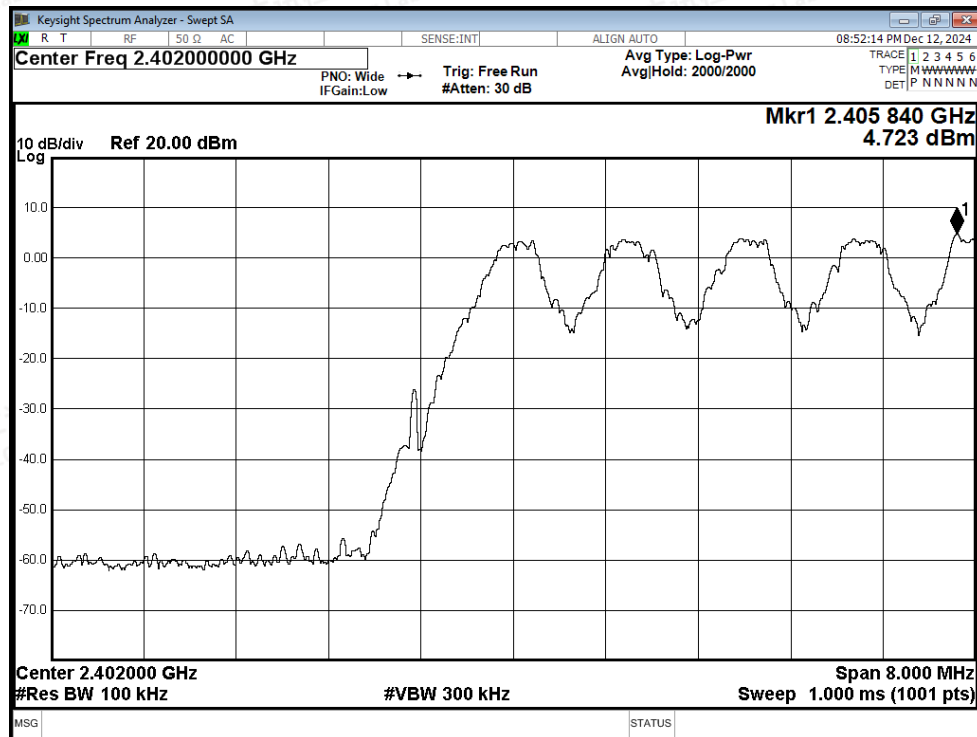
**(Hopping)**

| Condition | Mode  | Frequency (MHz) | Antenna | Hopping Mode | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|-------|-----------------|---------|--------------|-----------------|-------------|---------|
| NVNT      | 1-DH5 | 2402            | Ant3    | Hopping      | -62.43          | -20         | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant3    | Hopping      | -57.29          | -20         | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant3    | Hopping      | -53.12          | -20         | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant3    | Hopping      | -50.95          | -20         | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant3    | Hopping      | -53.24          | -20         | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant3    | Hopping      | -57.17          | -20         | Pass    |

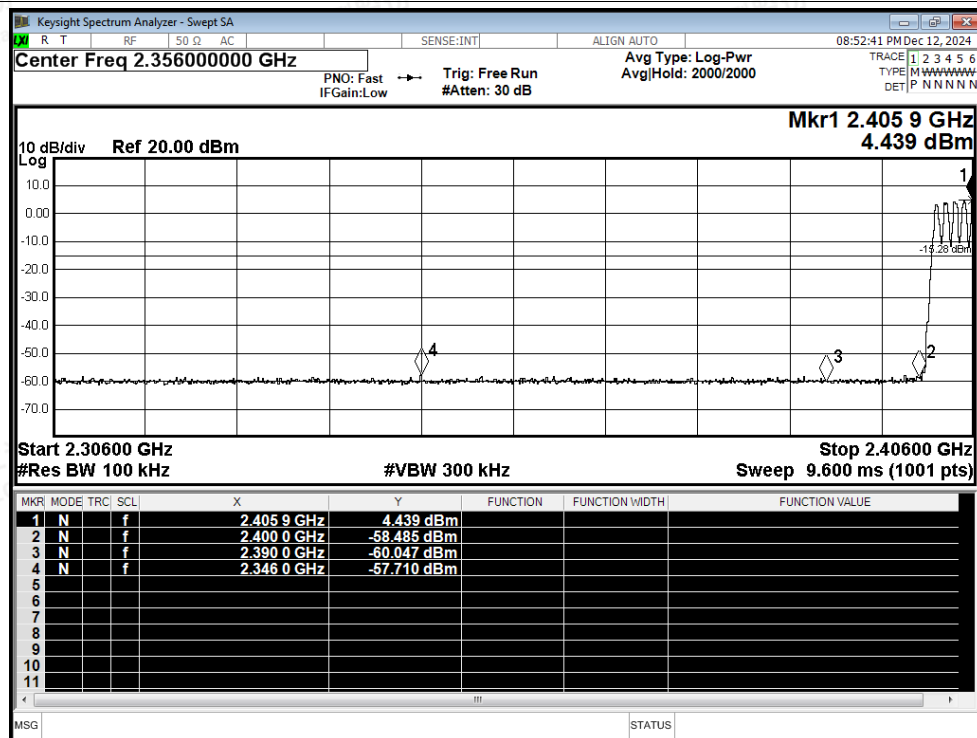


## Test Graphs

## Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant3 Hopping Ref

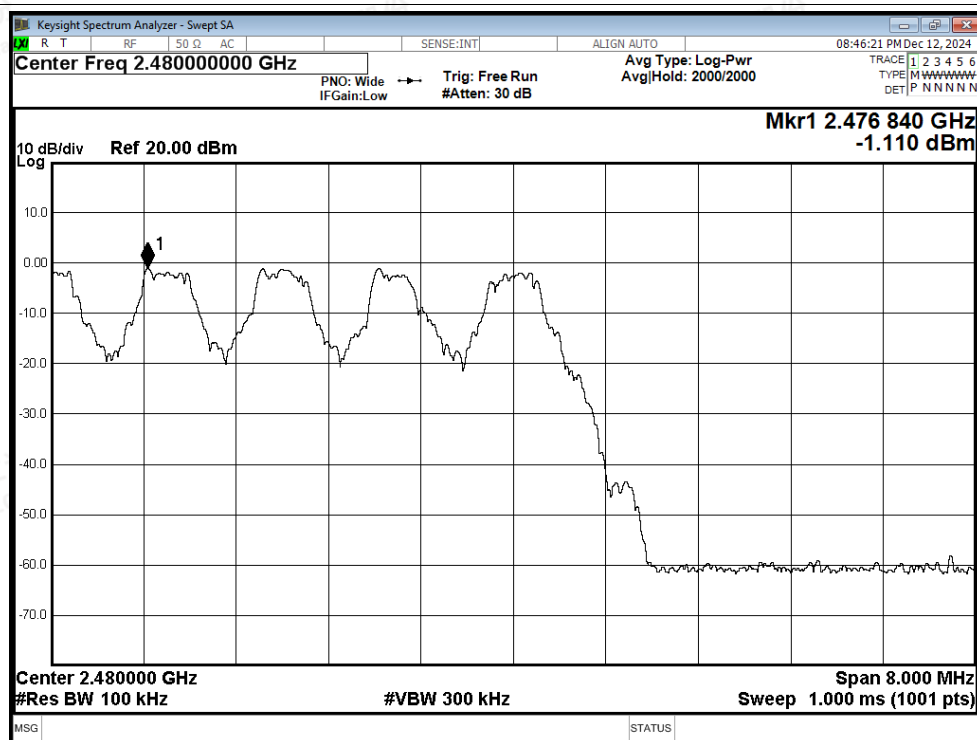


## Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant3 Hopping Emission

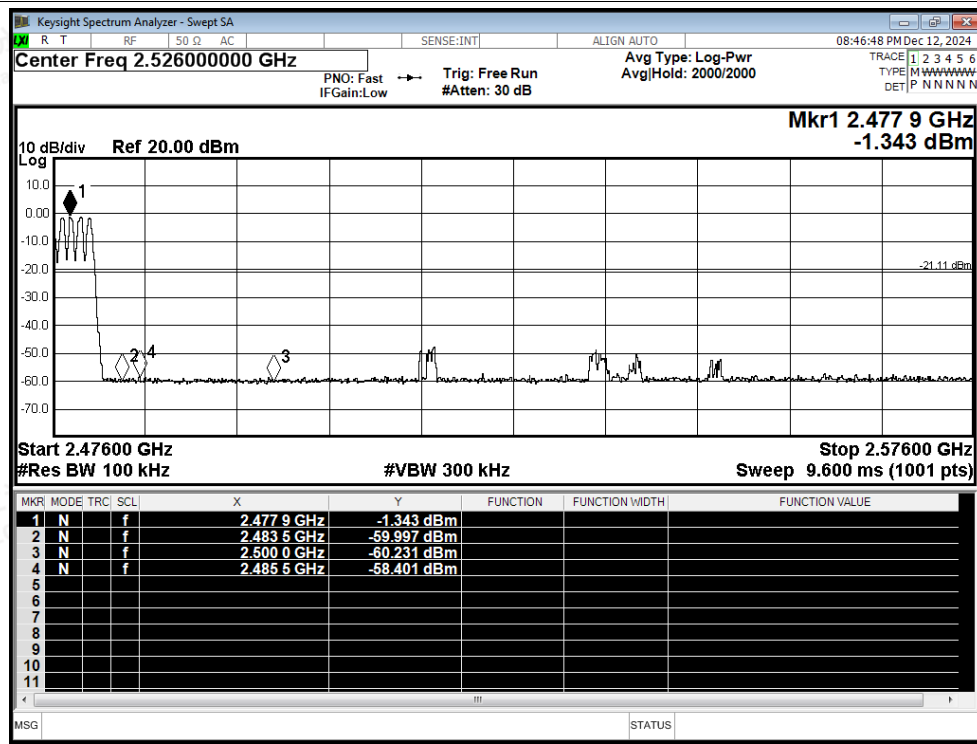




## Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant3 Hopping Ref

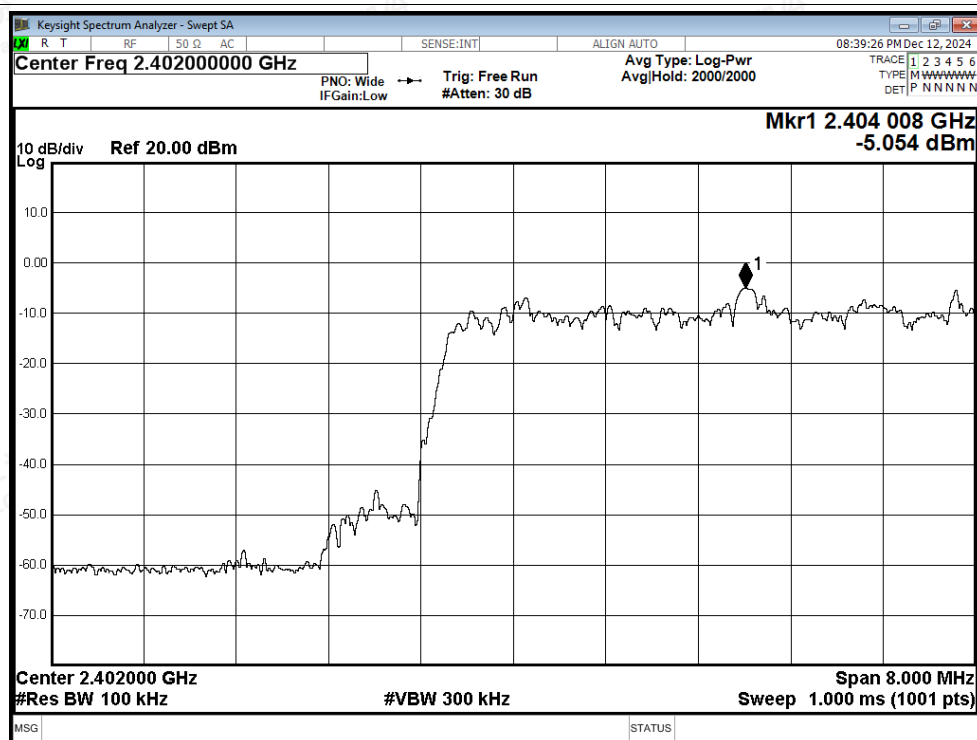


## Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant3 Hopping Emission

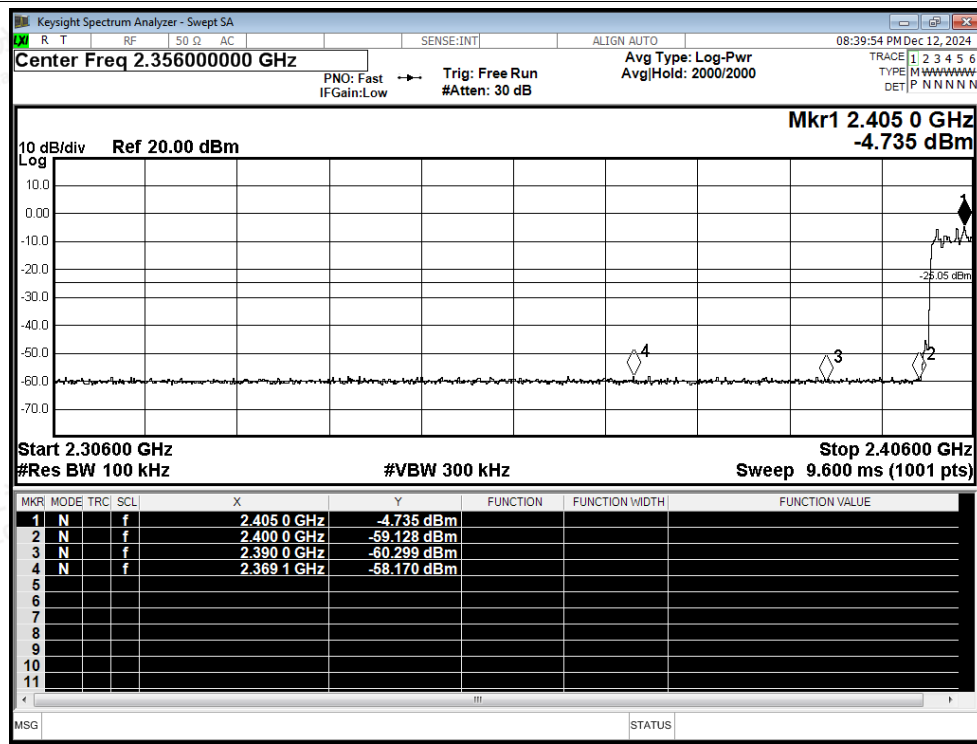




## Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant3 Hopping Ref

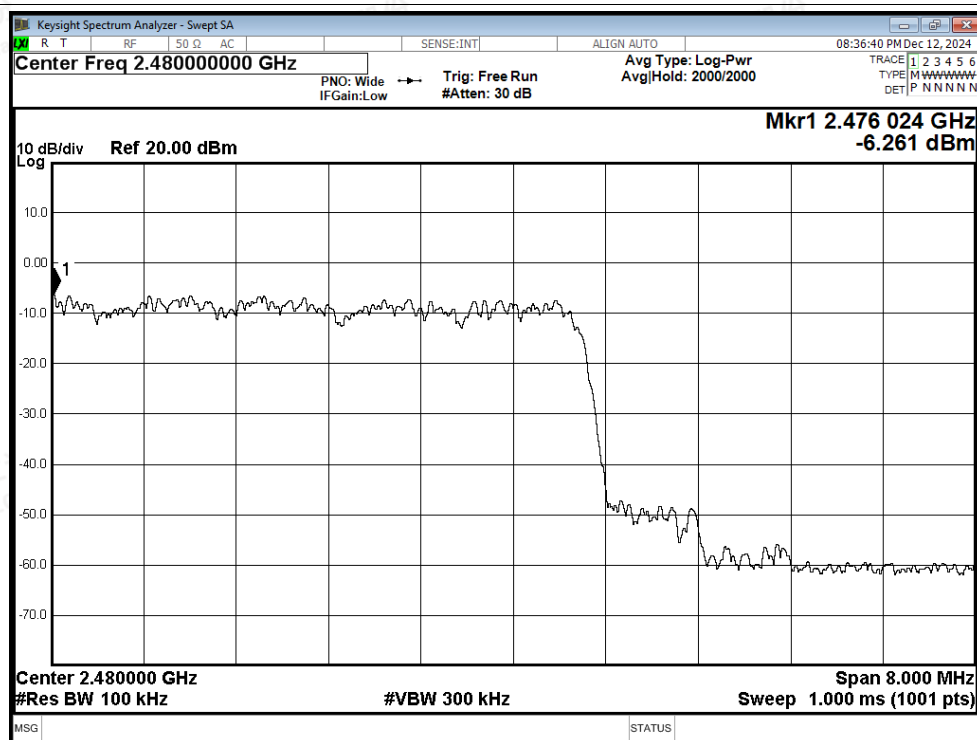


## Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant3 Hopping Emission

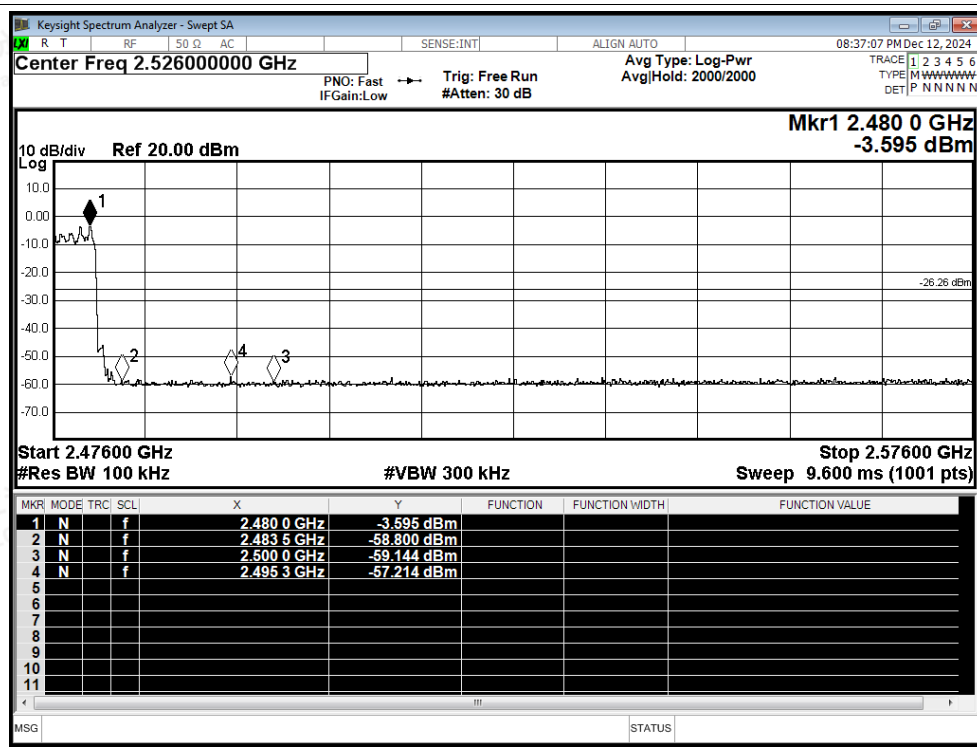




## Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant3 Hopping Ref

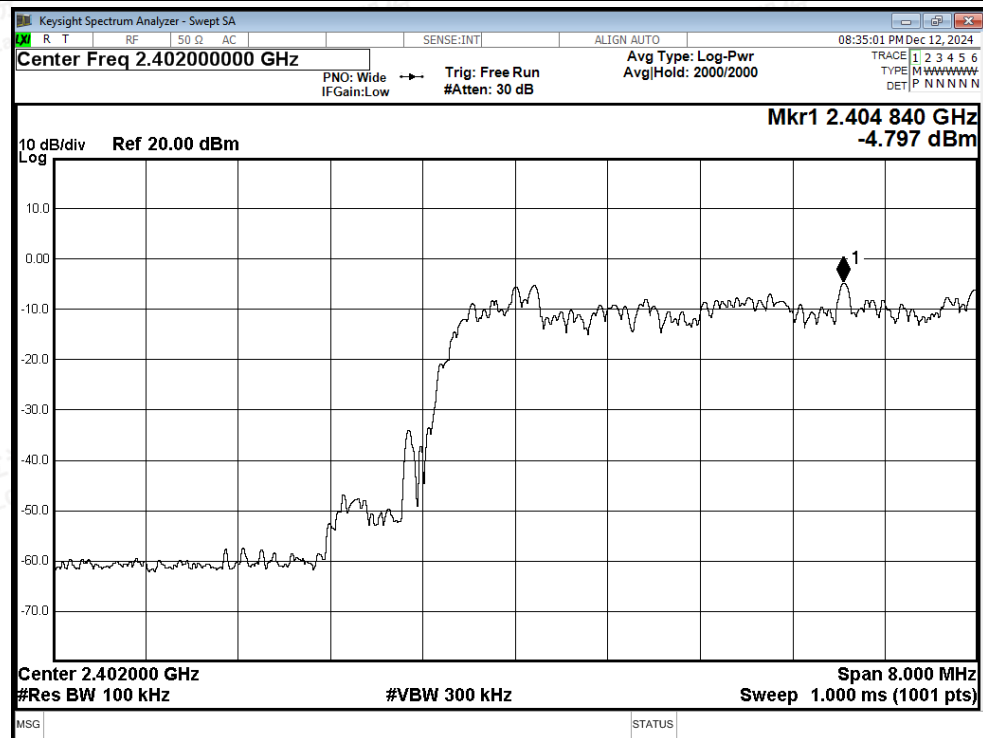


## Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant3 Hopping Emission

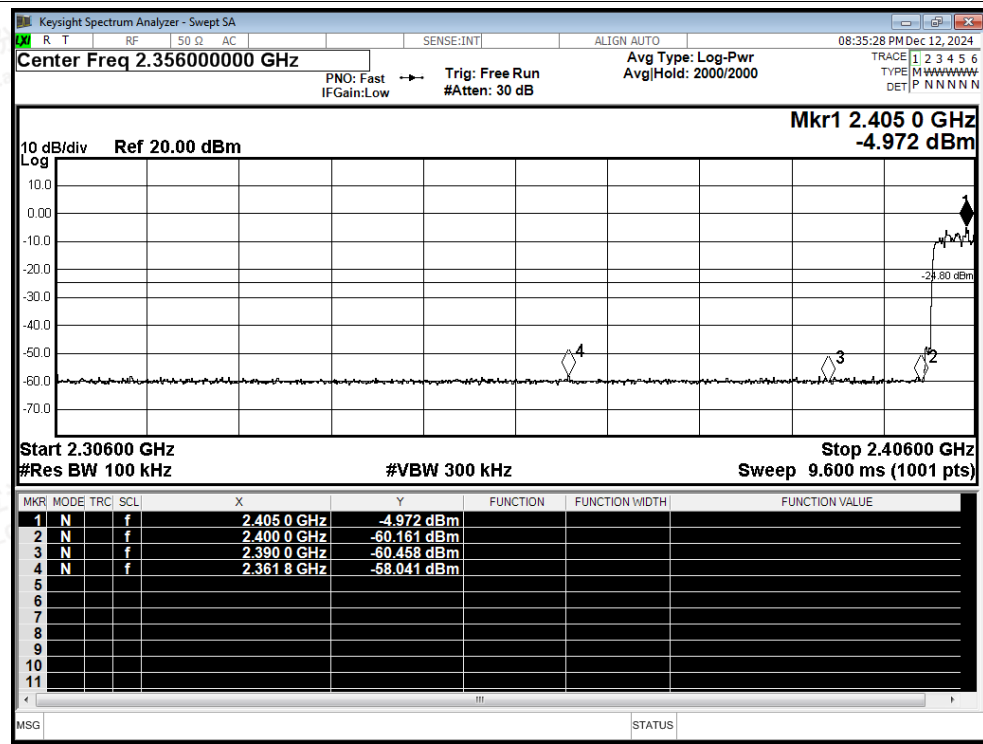




## Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant3 Hopping Ref

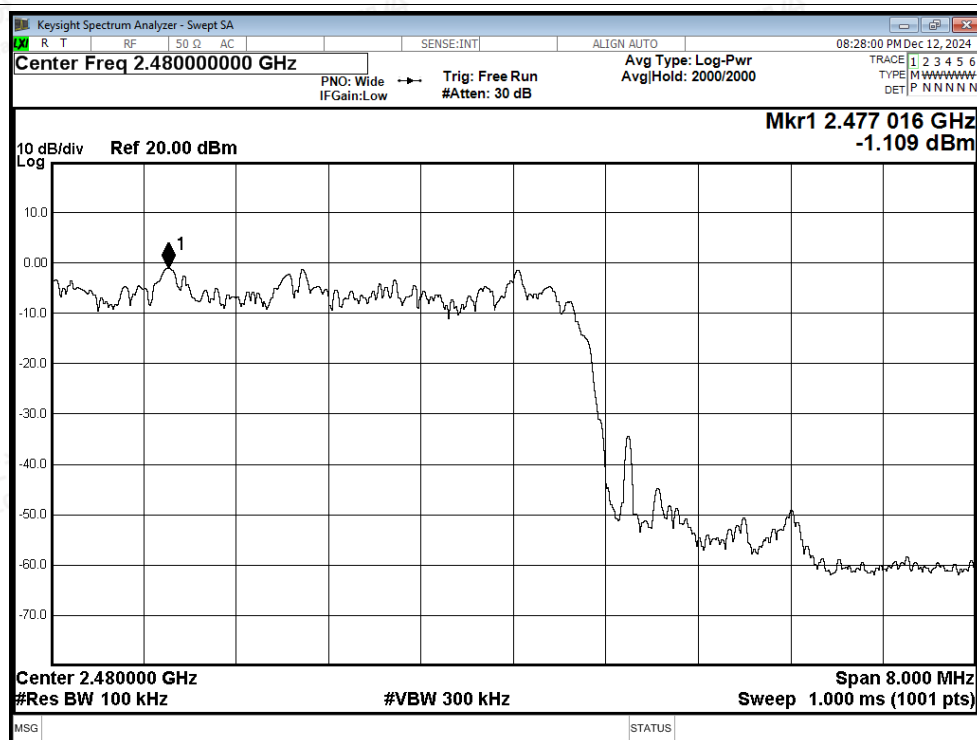


## Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant3 Hopping Emission

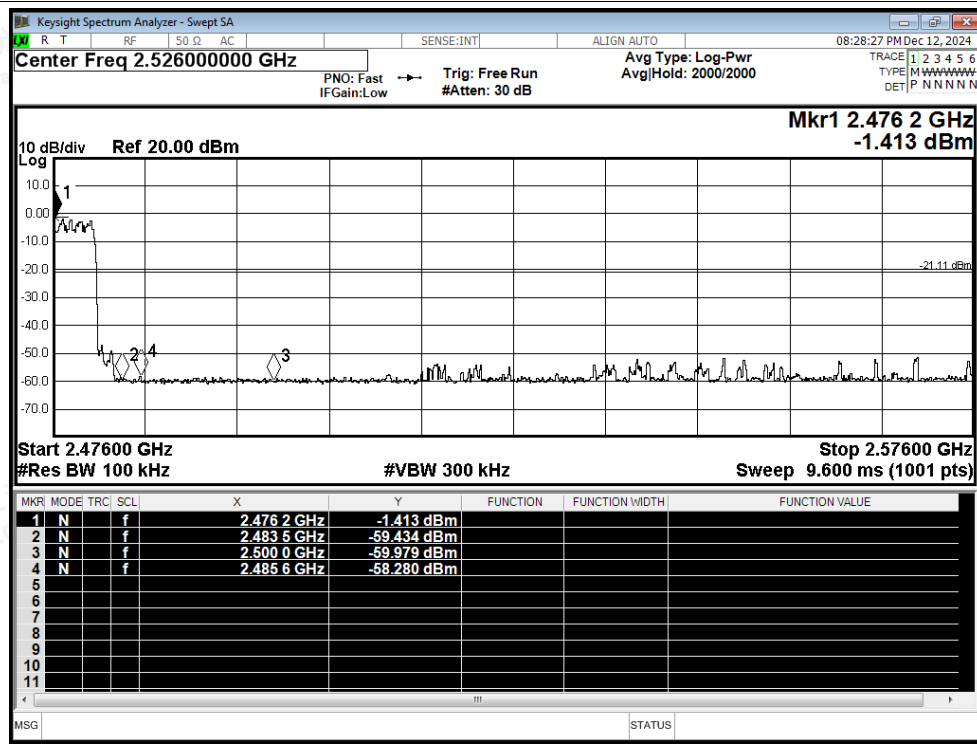




## Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant3 Hopping Ref



## Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant3 Hopping Emission





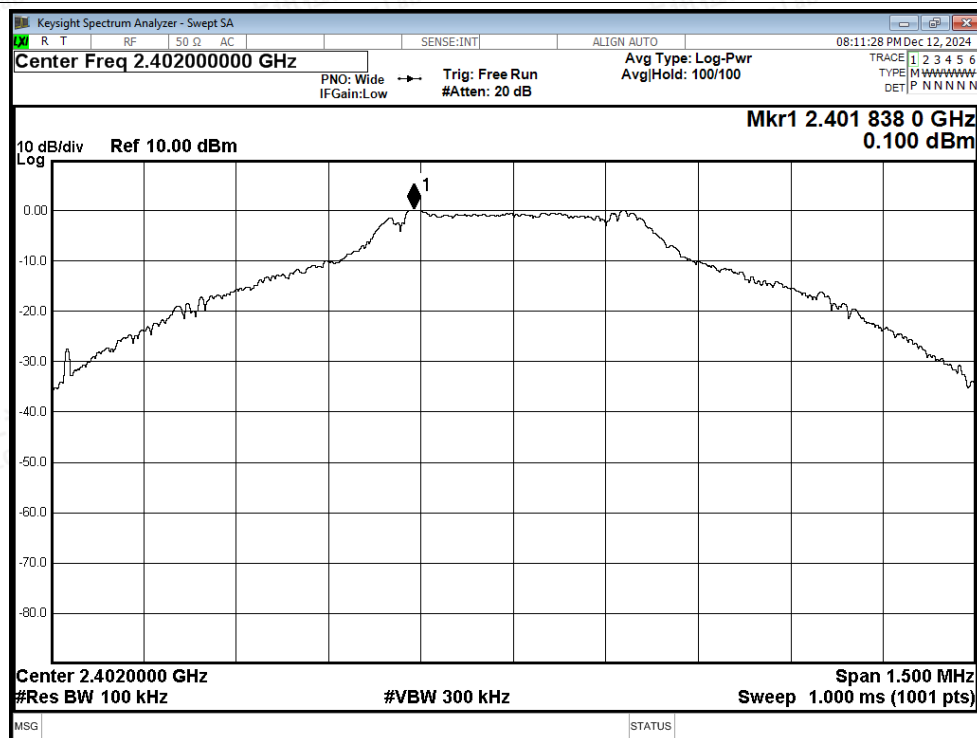
## A.7 Conducted RF Spurious Emission

| Condition | Mode  | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|-------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | 1-DH5 | 2402            | Ant3    | -57.01          | -20         | Pass    |
| NVNT      | 1-DH5 | 2441            | Ant3    | -55.52          | -20         | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant3    | -55.55          | -20         | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant3    | -53.29          | -20         | Pass    |
| NVNT      | 2-DH5 | 2441            | Ant3    | -53.11          | -20         | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant3    | -55.08          | -20         | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant3    | -53.86          | -20         | Pass    |
| NVNT      | 3-DH5 | 2441            | Ant3    | -54.38          | -20         | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant3    | -54.41          | -20         | Pass    |

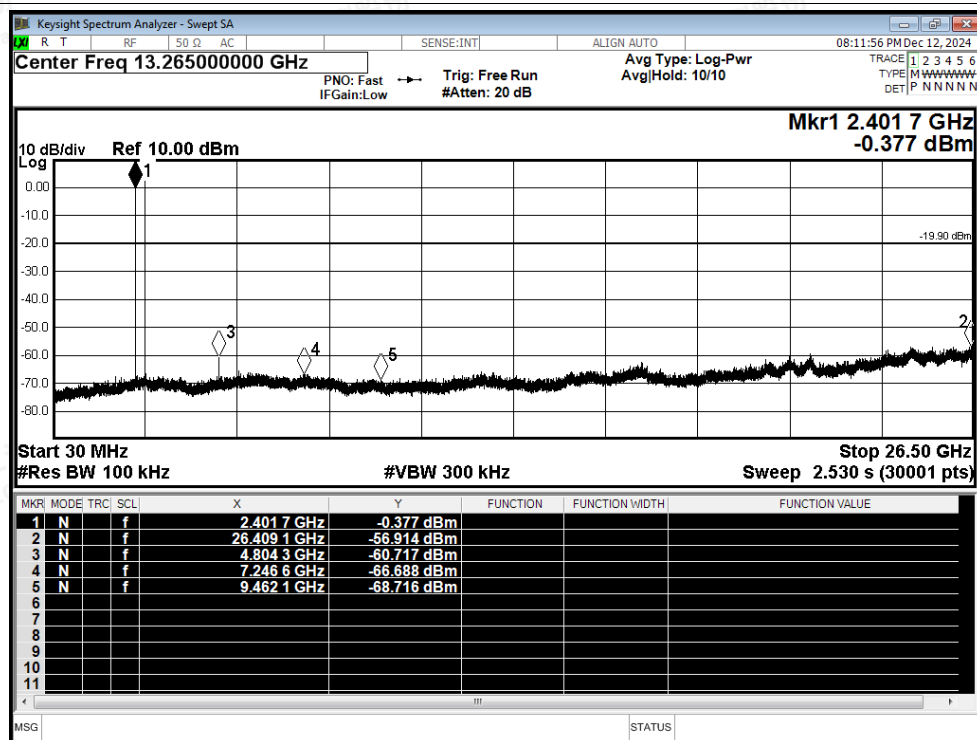


## Test Graphs

## Tx. Spurious NVNT 1-DH5 2402MHz Ant3 Ref

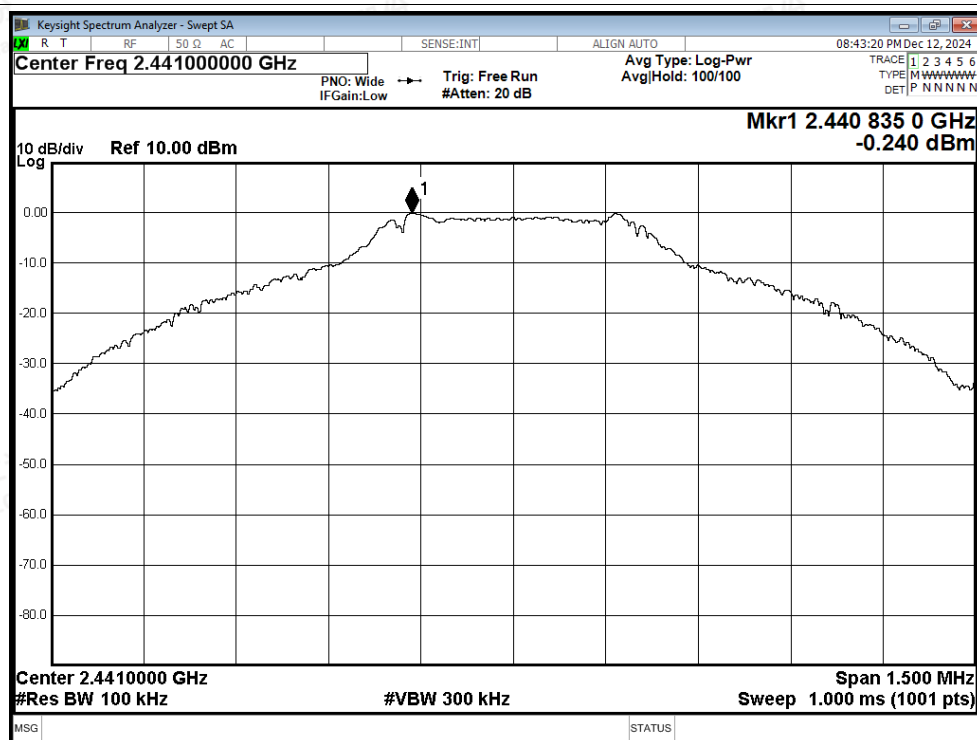


## Tx. Spurious NVNT 1-DH5 2402MHz Ant3 Emission

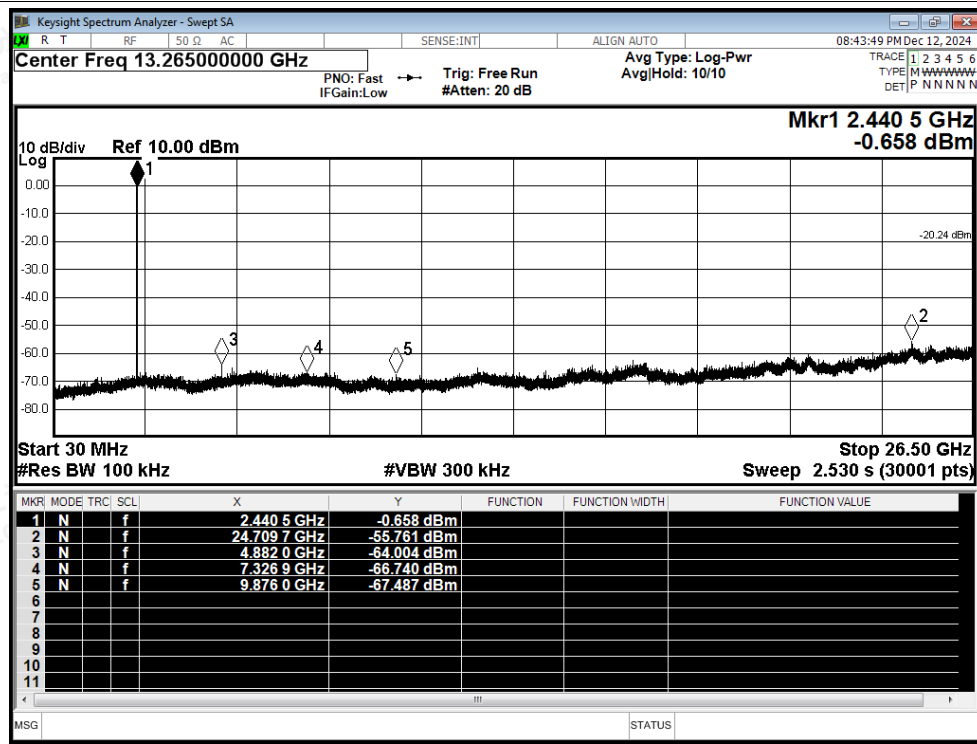




## Tx. Spurious NVNT 1-DH5 2441MHz Ant3 Ref

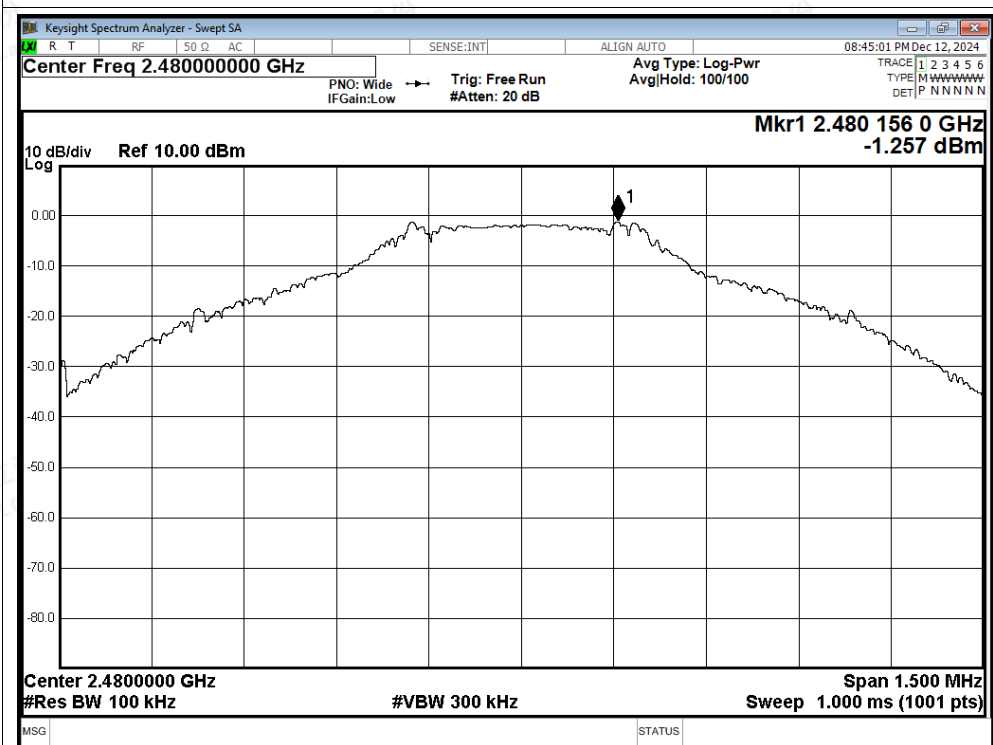


## Tx. Spurious NVNT 1-DH5 2441MHz Ant3 Emission

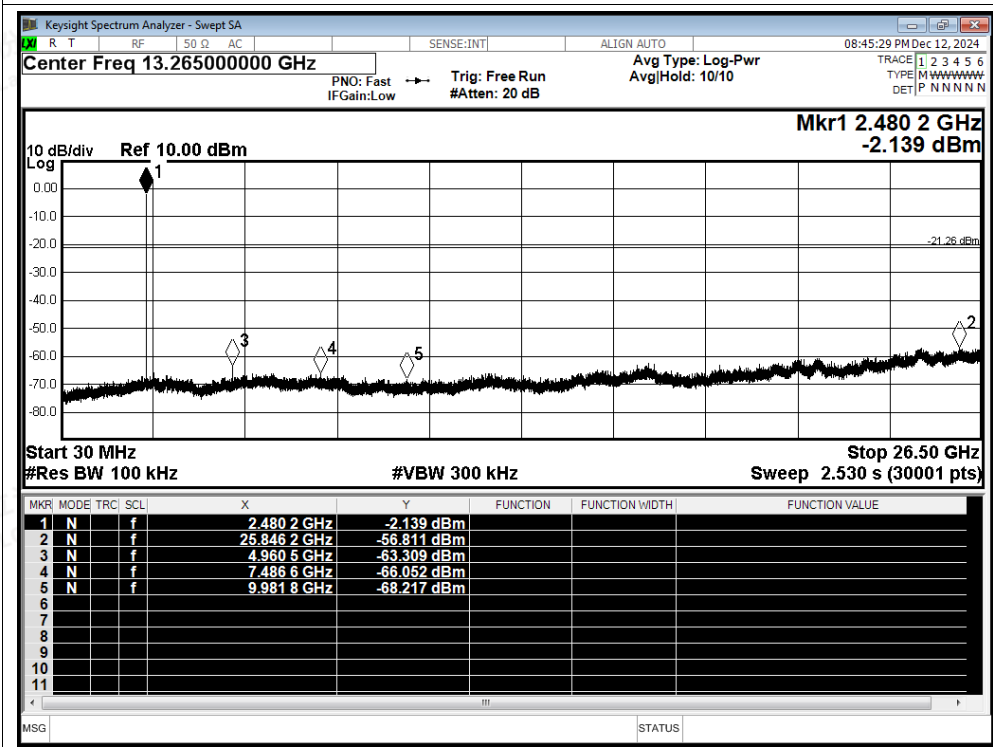


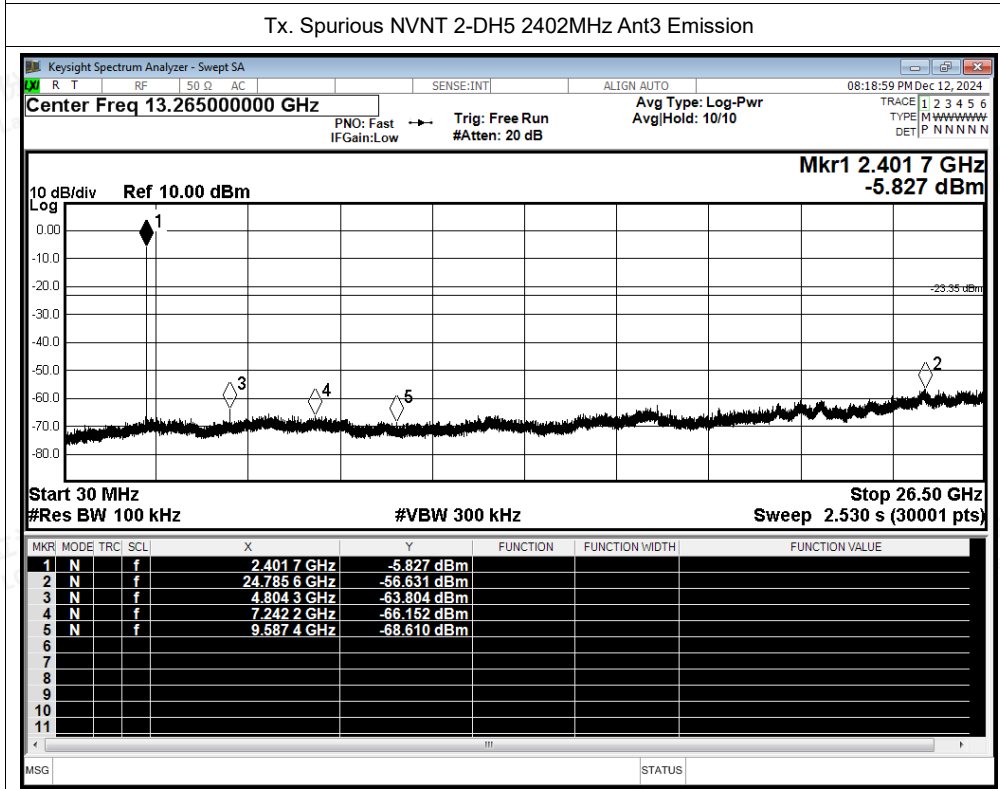
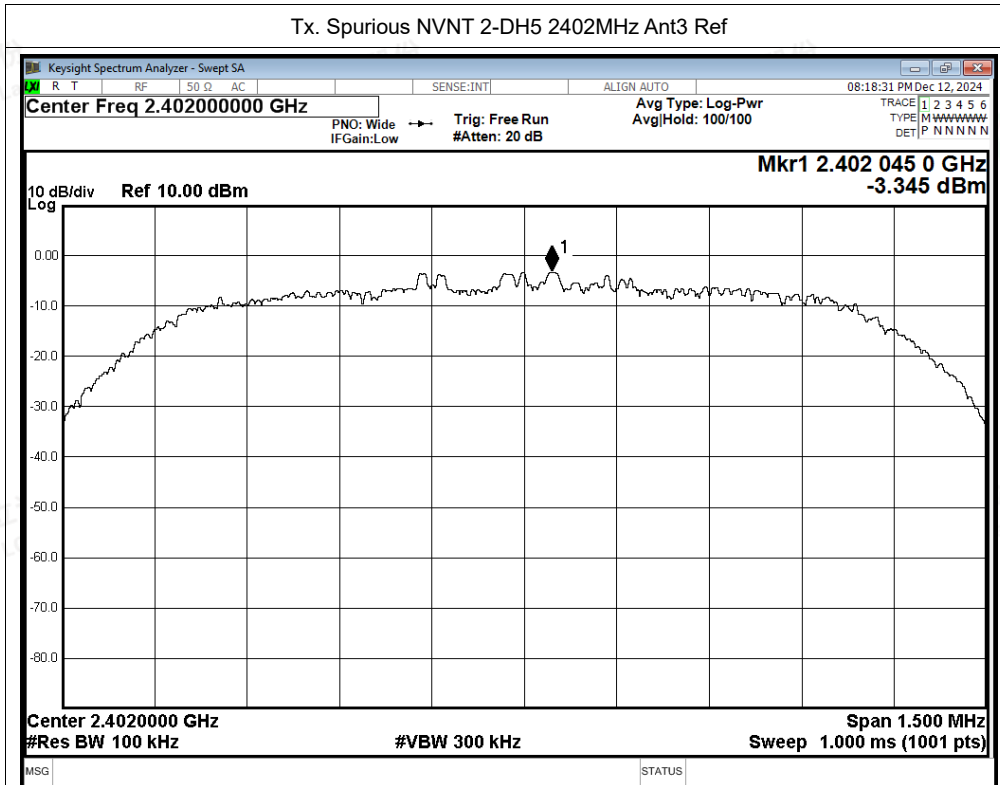


## Tx. Spurious NVNT 1-DH5 2480MHz Ant3 Ref



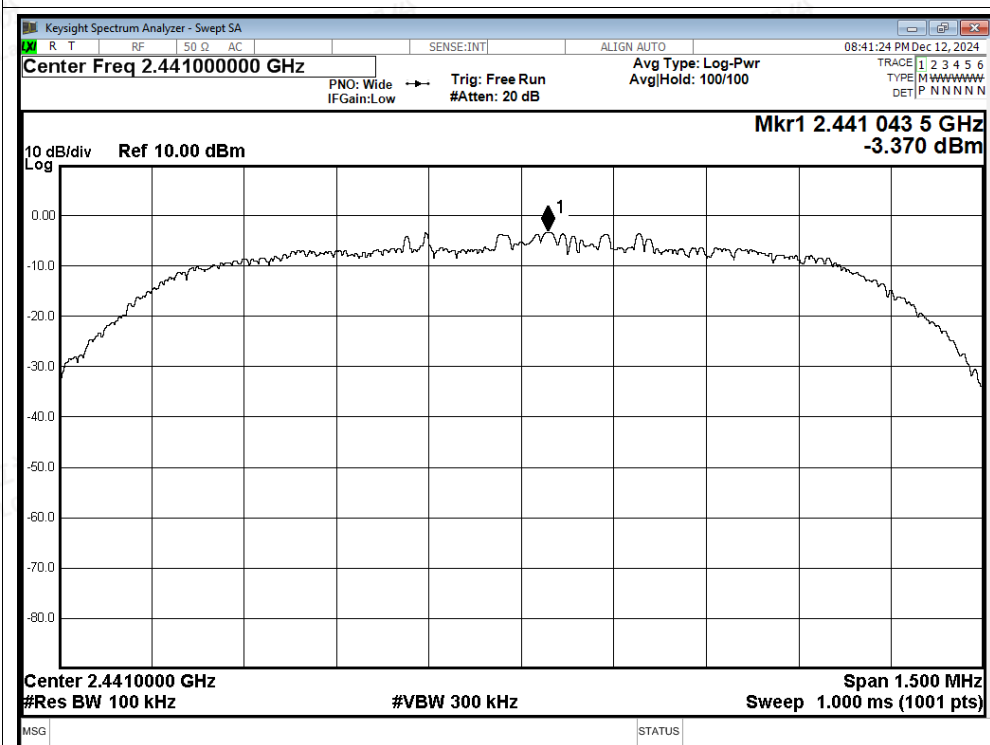
## Tx. Spurious NVNT 1-DH5 2480MHz Ant3 Emission



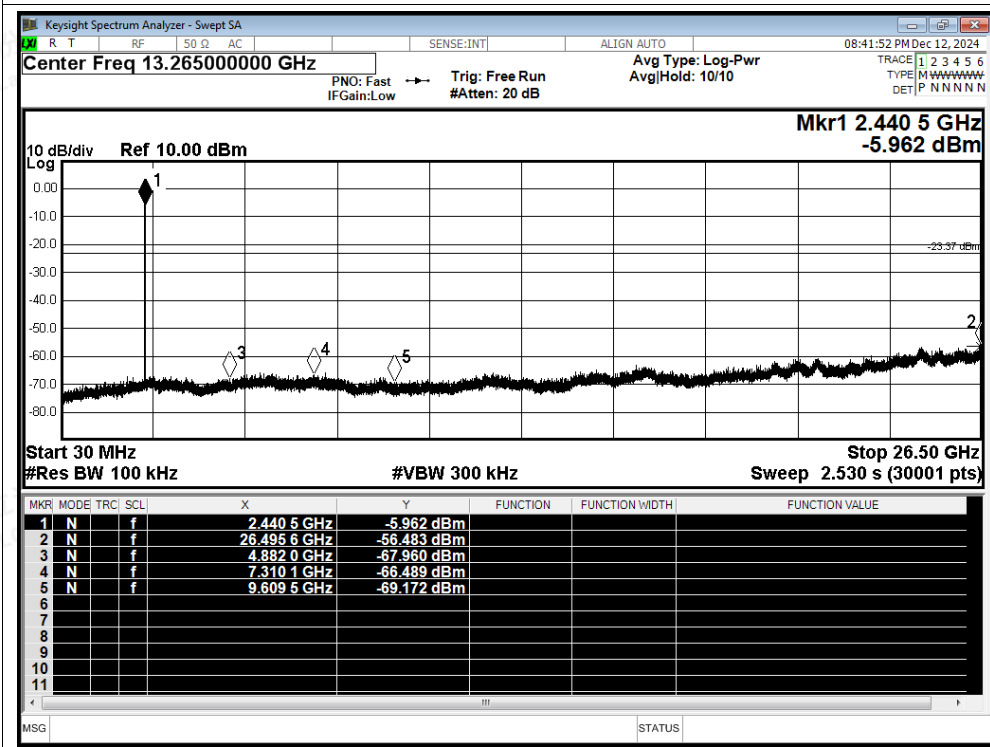




## Tx. Spurious NVNT 2-DH5 2441MHz Ant3 Ref

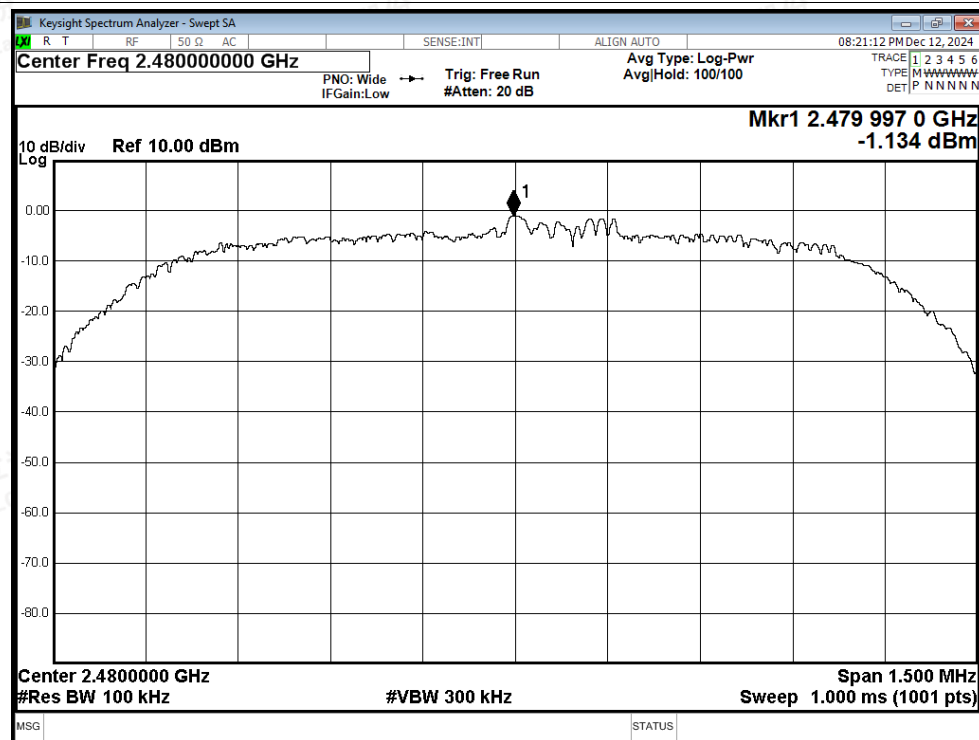


## Tx. Spurious NVNT 2-DH5 2441MHz Ant3 Emission

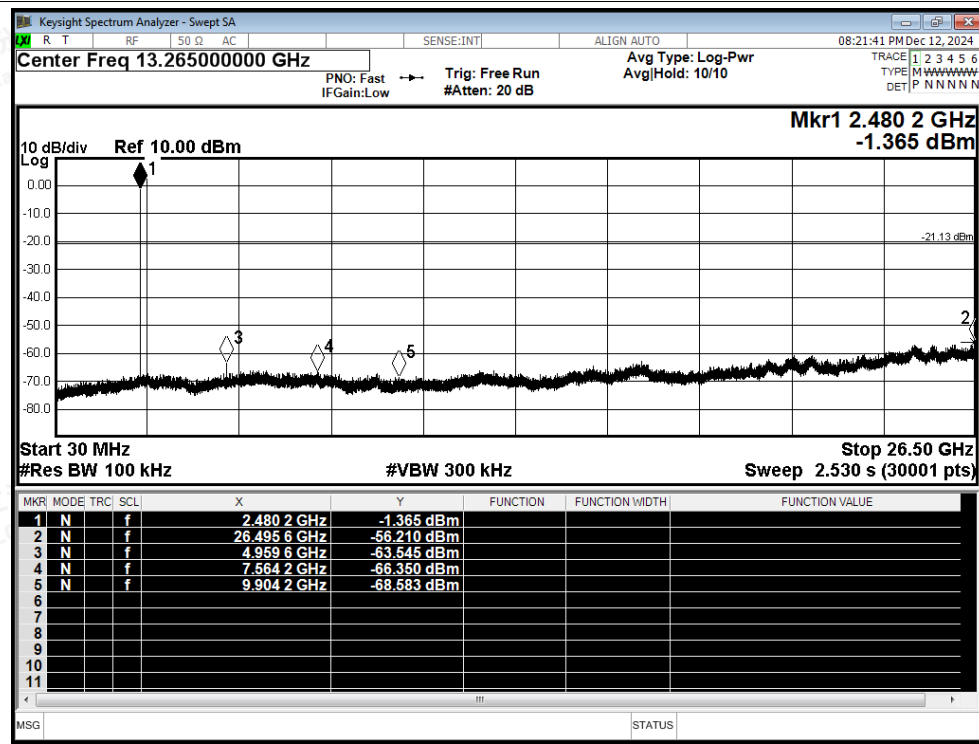




## Tx. Spurious NVNT 2-DH5 2480MHz Ant3 Ref

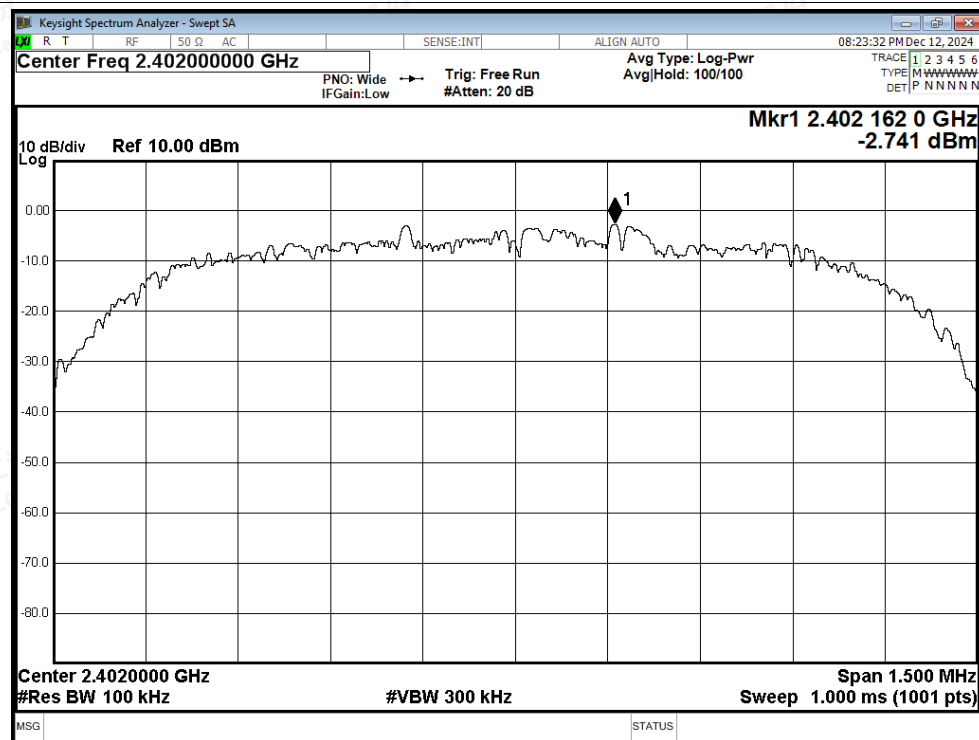


## Tx. Spurious NVNT 2-DH5 2480MHz Ant3 Emission

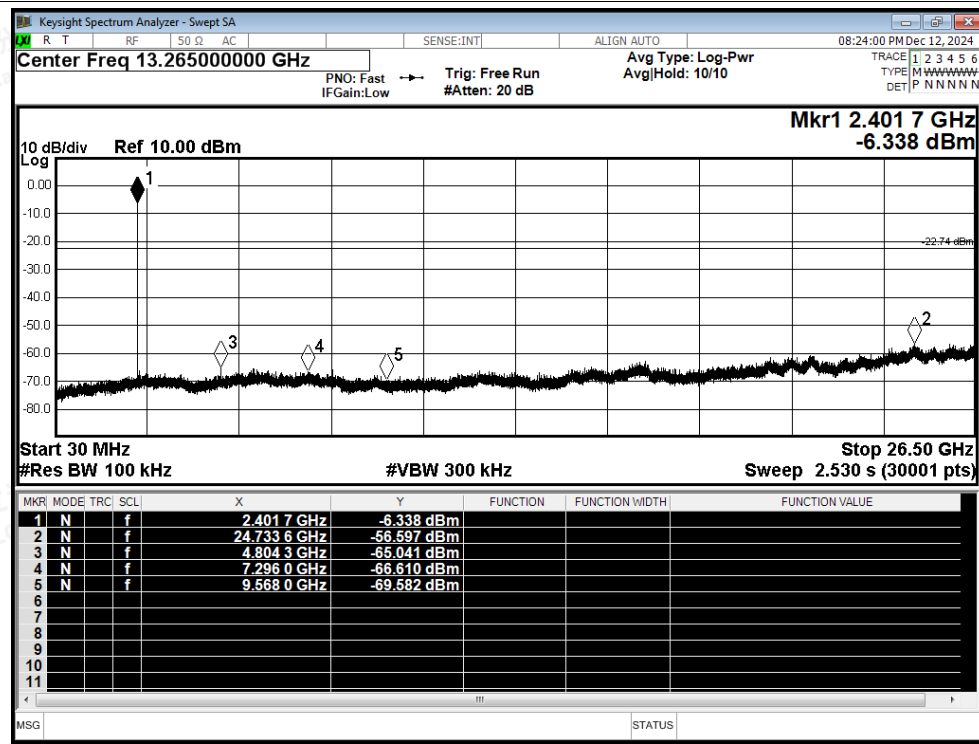




## Tx. Spurious NVNT 3-DH5 2402MHz Ant3 Ref

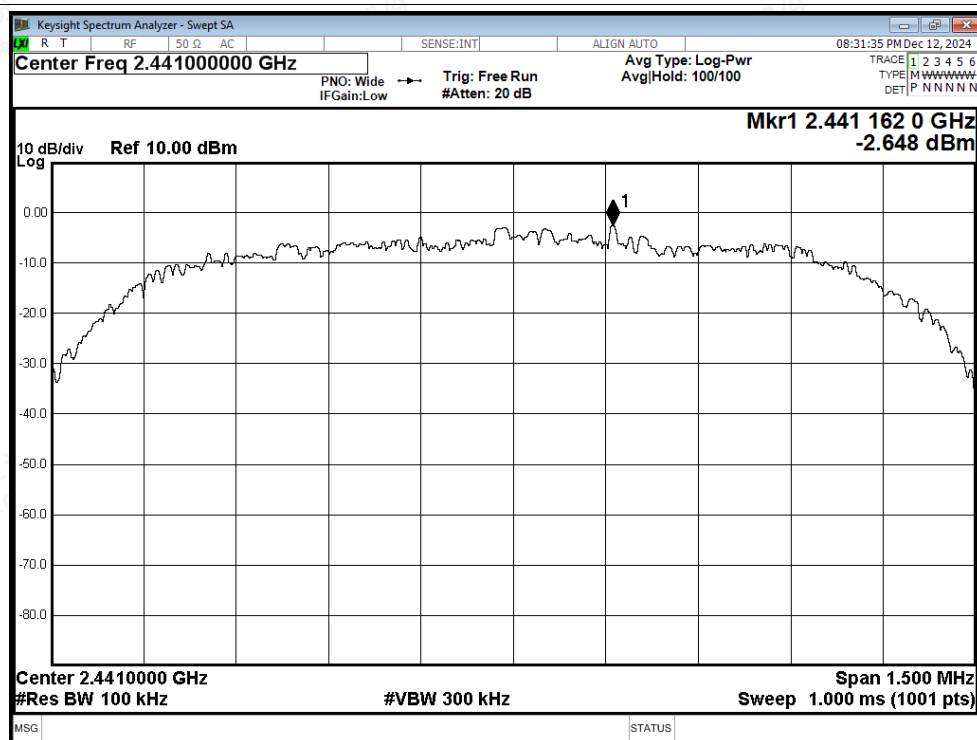


## Tx. Spurious NVNT 3-DH5 2402MHz Ant3 Emission

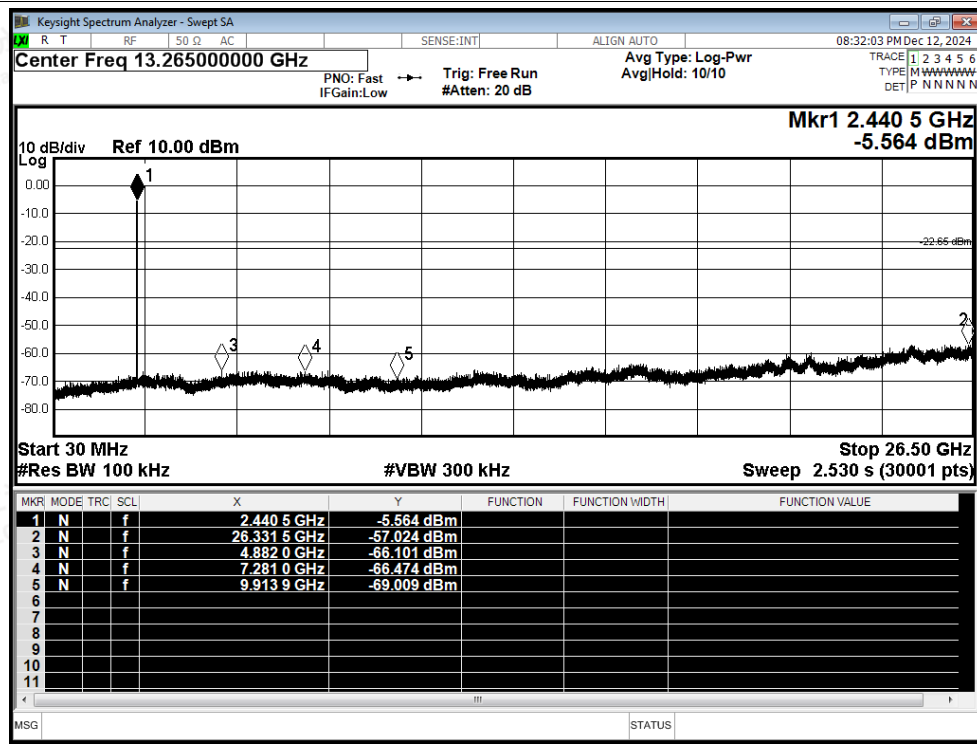




## Tx. Spurious NVNT 3-DH5 2441MHz Ant3 Ref

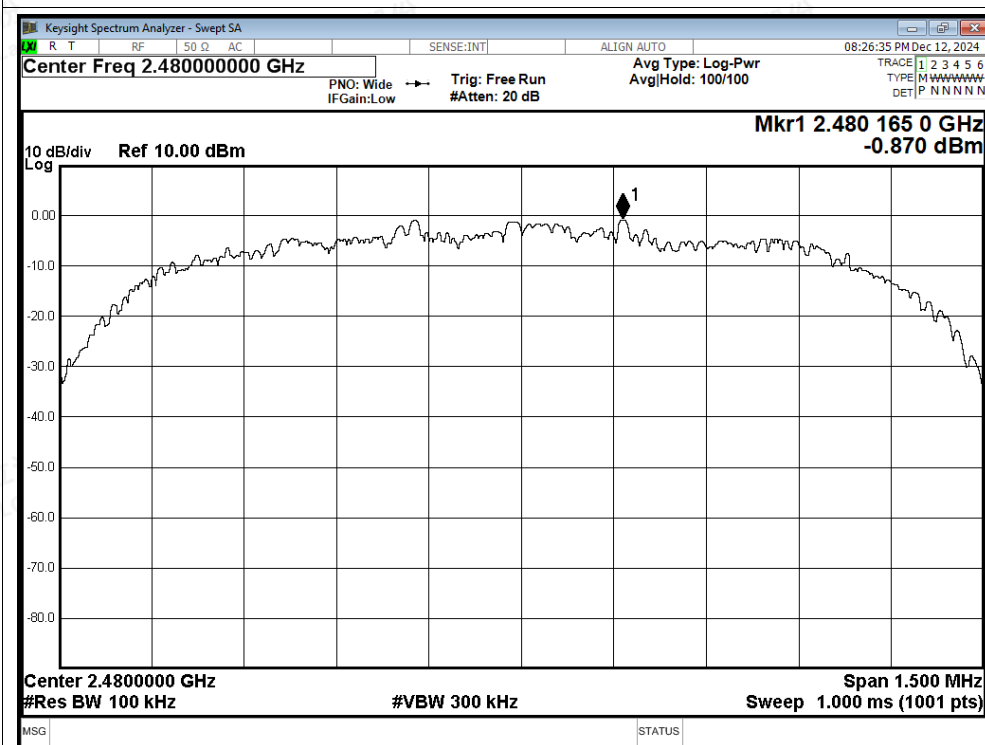


## Tx. Spurious NVNT 3-DH5 2441MHz Ant3 Emission

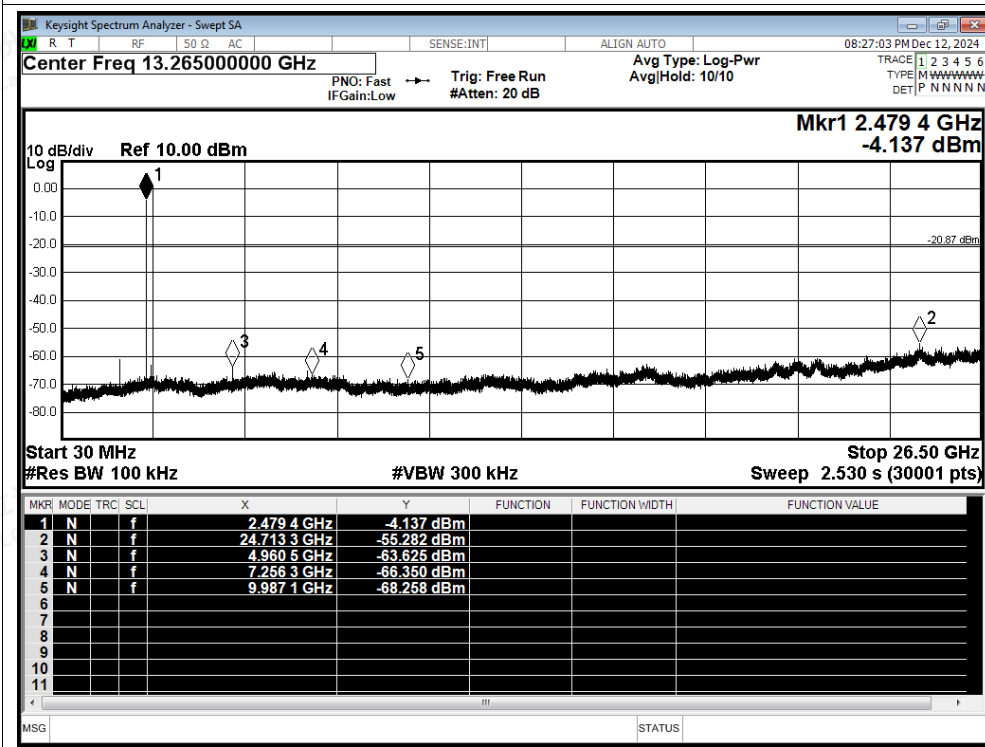




## Tx. Spurious NVNT 3-DH5 2480MHz Ant3 Ref



## Tx. Spurious NVNT 3-DH5 2480MHz Ant3 Emission





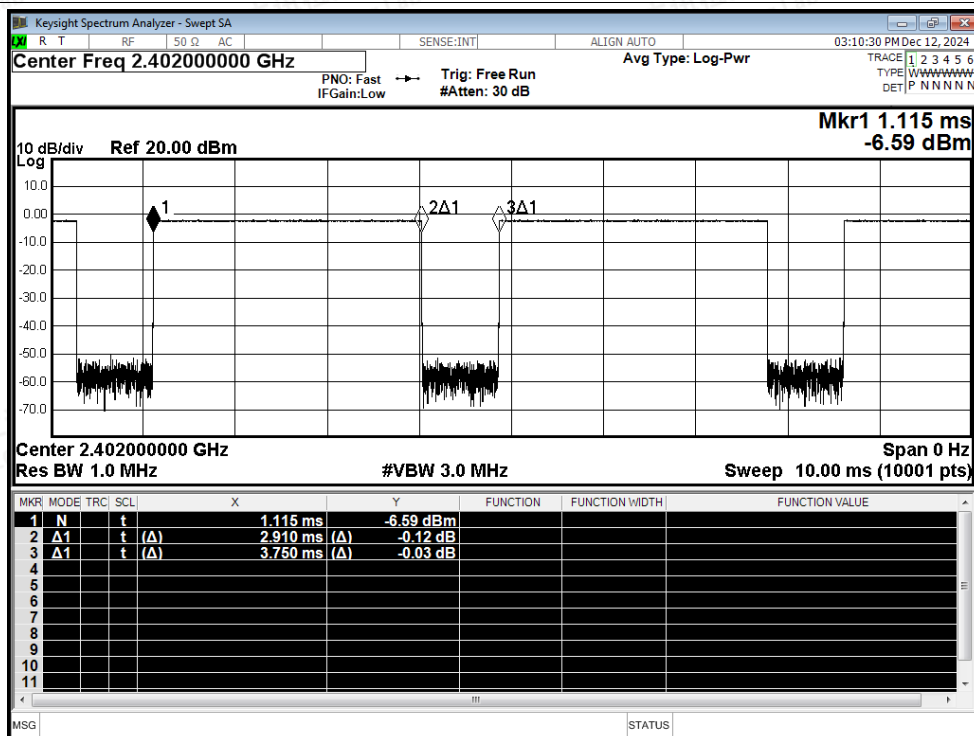
## A.8 Duty Cycle

| Condition | Mode  | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|-------|-----------------|---------|----------------|------------------------|-----------|
| NVNT      | 1-DH5 | 2402            | Ant3    | 77.6           | 1.1                    | 0.34      |
| NVNT      | 1-DH5 | 2441            | Ant3    | 77.6           | 1.1                    | 0.34      |
| NVNT      | 1-DH5 | 2480            | Ant3    | 77.6           | 1.1                    | 0.34      |
| NVNT      | 2-DH5 | 2402            | Ant3    | 77.15          | 1.13                   | 0.35      |
| NVNT      | 2-DH5 | 2441            | Ant3    | 77.15          | 1.13                   | 0.35      |
| NVNT      | 2-DH5 | 2480            | Ant3    | 77.15          | 1.13                   | 0.35      |
| NVNT      | 3-DH5 | 2402            | Ant3    | 77.22          | 1.12                   | 0.35      |
| NVNT      | 3-DH5 | 2441            | Ant3    | 77.22          | 1.12                   | 0.35      |
| NVNT      | 3-DH5 | 2480            | Ant3    | 77.2           | 1.12                   | 0.35      |

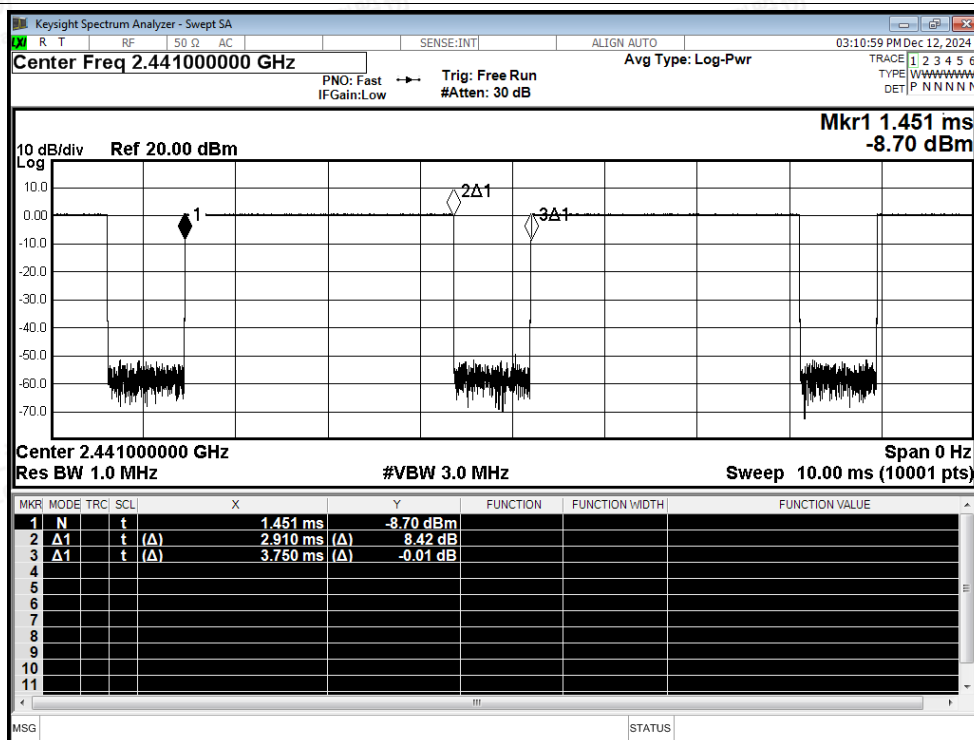


## Test Graphs

## Duty Cycle NVNT 1-DH5 2402MHz Ant3

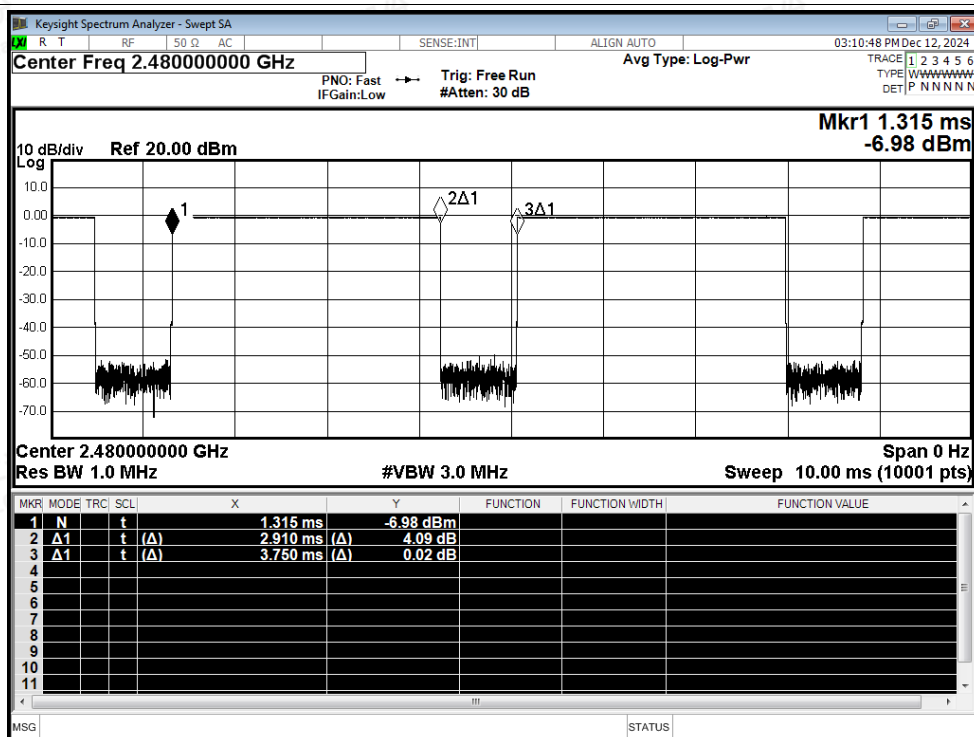


## Duty Cycle NVNT 1-DH5 2441MHz Ant3

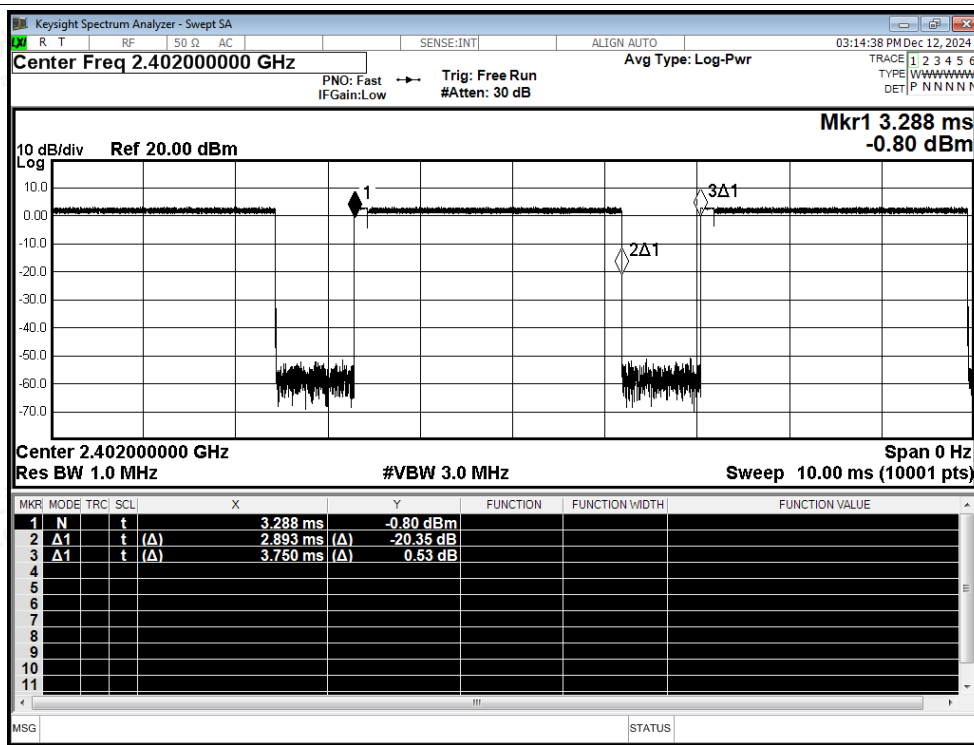


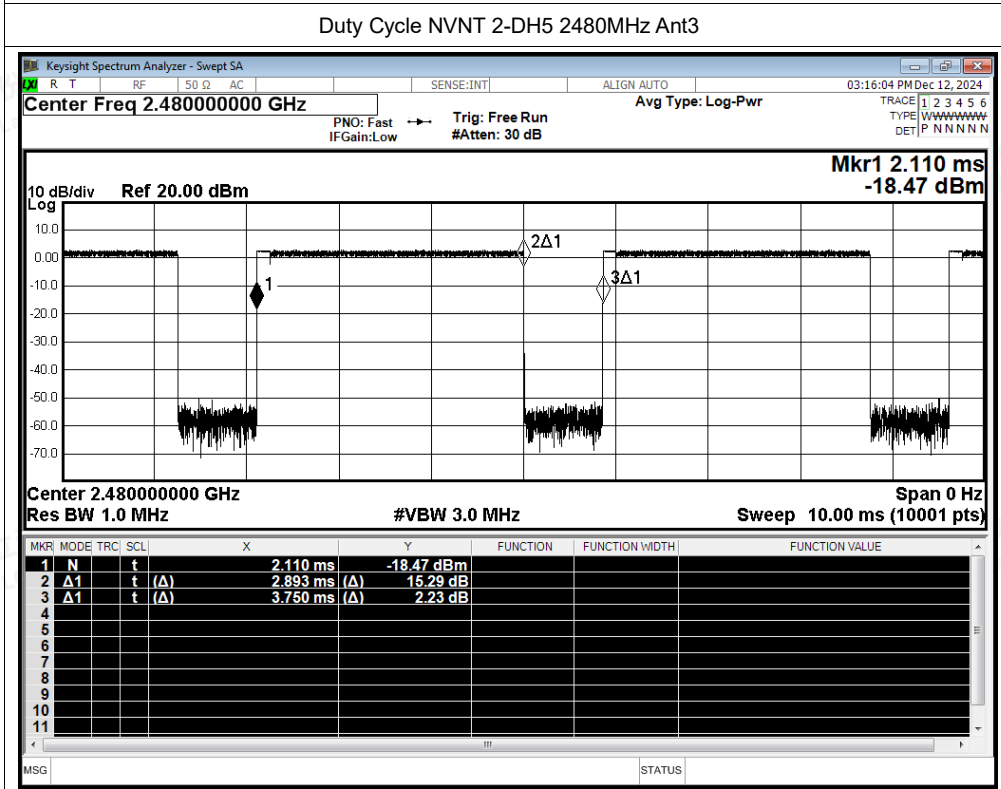


## Duty Cycle NVNT 1-DH5 2480MHz Ant3



## Duty Cycle NVNT 2-DH5 2402MHz Ant3









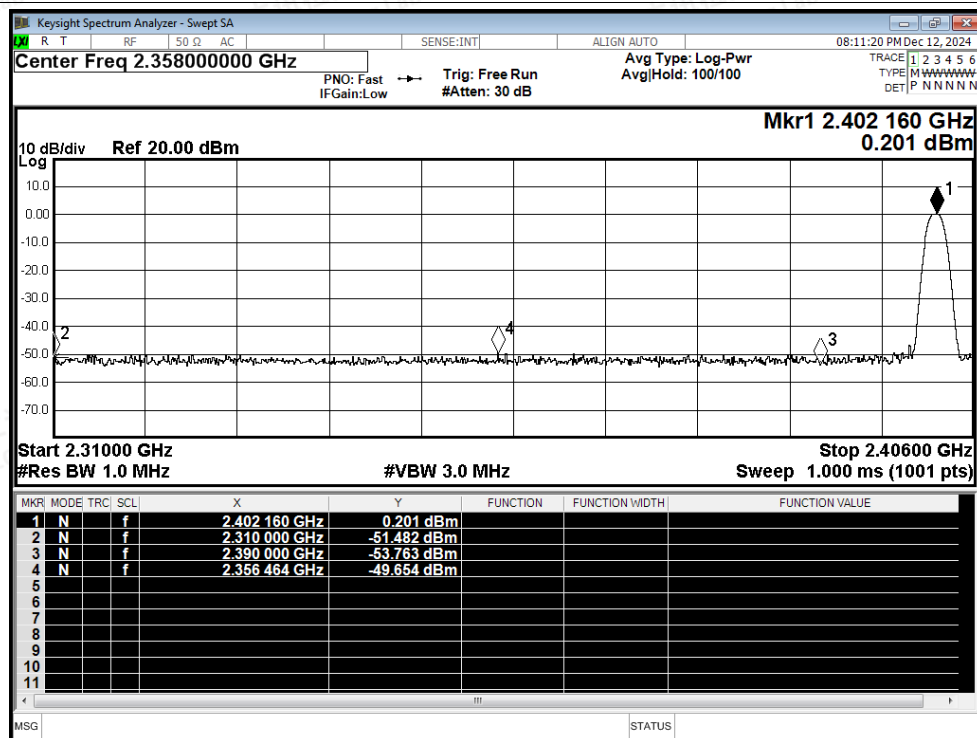


## A.9 Restrict Band

| Condition | Mode  | Frequency (MHz) | Antenna | Hopping Mode | Spur Freq (MHz) | Power (dBm) | Gain (dBi) | Duty Factor (dB) | E (dBuV/m) | Detector | Limit (dBuV/m) | Verdict |
|-----------|-------|-----------------|---------|--------------|-----------------|-------------|------------|------------------|------------|----------|----------------|---------|
| NVNT      | 1-DH5 | 2402            | Ant3    | No-Hopping   | 2310            | -51.48      | 2.77       | -                | 46.55      | Peak     | 74             | Pass    |
| NVNT      | 1-DH5 | 2402            | Ant3    | No-Hopping   | 2310            | -62.27      | 2.77       | 1.1              | 36.86      | Average  | 54             | Pass    |
| NVNT      | 1-DH5 | 2402            | Ant3    | No-Hopping   | 2356.464        | -49.65      | 2.77       | -                | 48.38      | Peak     | 74             | Pass    |
| NVNT      | 1-DH5 | 2402            | Ant3    | No-Hopping   | 2329.104        | -61.84      | 2.77       | 1.1              | 37.29      | Average  | 54             | Pass    |
| NVNT      | 1-DH5 | 2402            | Ant3    | No-Hopping   | 2390            | -53.76      | 2.77       | -                | 44.27      | Peak     | 74             | Pass    |
| NVNT      | 1-DH5 | 2402            | Ant3    | No-Hopping   | 2390            | -61.97      | 2.77       | 1.1              | 37.16      | Average  | 54             | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant3    | No-Hopping   | 2483.5          | -51.85      | 2.77       | -                | 46.18      | Peak     | 74             | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant3    | No-Hopping   | 2483.5          | -61.16      | 2.77       | 1.1              | 37.97      | Average  | 54             | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant3    | No-Hopping   | 2487.016        | -49.1       | 2.77       | -                | 48.93      | Peak     | 74             | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant3    | No-Hopping   | 2483.512        | -61.16      | 2.77       | 1.1              | 37.97      | Average  | 54             | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant3    | No-Hopping   | 2500            | -50.68      | 2.77       | -                | 47.35      | Peak     | 74             | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant3    | No-Hopping   | 2500            | -61.89      | 2.77       | 1.1              | 37.24      | Average  | 54             | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant3    | No-Hopping   | 2310            | -52.55      | 2.77       | -                | 45.48      | Peak     | 74             | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant3    | No-Hopping   | 2310            | -62.28      | 2.77       | 1.13             | 36.88      | Average  | 54             | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant3    | No-Hopping   | 2385.648        | -49.84      | 2.77       | -                | 48.19      | Peak     | 74             | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant3    | No-Hopping   | 2366.544        | -61.84      | 2.77       | 1.13             | 37.32      | Average  | 54             | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant3    | No-Hopping   | 2390            | -52.8       | 2.77       | -                | 45.23      | Peak     | 74             | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant3    | No-Hopping   | 2390            | -62.14      | 2.77       | 1.13             | 37.02      | Average  | 54             | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant3    | No-Hopping   | 2483.5          | -51.01      | 2.77       | -                | 47.02      | Peak     | 74             | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant3    | No-Hopping   | 2483.5          | -60.4       | 2.77       | 1.13             | 38.76      | Average  | 54             | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant3    | No-Hopping   | 2484.28         | -46.1       | 2.77       | -                | 51.93      | Peak     | 74             | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant3    | No-Hopping   | 2483.512        | -60.4       | 2.77       | 1.13             | 38.76      | Average  | 54             | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant3    | No-Hopping   | 2500            | -50.67      | 2.77       | -                | 47.36      | Peak     | 74             | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant3    | No-Hopping   | 2500            | -61.98      | 2.77       | 1.13             | 37.18      | Average  | 54             | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant3    | No-Hopping   | 2310            | -51.83      | 2.77       | -                | 46.20      | Peak     | 74             | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant3    | No-Hopping   | 2310            | -62.21      | 2.77       | 1.12             | 36.94      | Average  | 54             | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant3    | No-Hopping   | 2342.544        | -49.99      | 2.77       | -                | 48.04      | Peak     | 74             | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant3    | No-Hopping   | 2361.264        | -61.89      | 2.77       | 1.12             | 37.26      | Average  | 54             | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant3    | No-Hopping   | 2390            | -52.73      | 2.77       | -                | 45.30      | Peak     | 74             | Pass    |
| NVNT      | 3-DH5 | 2402            | Ant3    | No-Hopping   | 2390            | -62.04      | 2.77       | 1.12             | 37.11      | Average  | 54             | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant3    | No-Hopping   | 2483.5          | -47.93      | 2.77       | -                | 50.10      | Peak     | 74             | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant3    | No-Hopping   | 2483.5          | -60.17      | 2.77       | 1.12             | 38.98      | Average  | 54             | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant3    | No-Hopping   | 2483.536        | -46.14      | 2.77       | -                | 51.89      | Peak     | 74             | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant3    | No-Hopping   | 2483.512        | -60.17      | 2.77       | 1.12             | 38.98      | Average  | 54             | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant3    | No-Hopping   | 2500            | -51.2       | 2.77       | -                | 46.83      | Peak     | 74             | Pass    |
| NVNT      | 3-DH5 | 2480            | Ant3    | No-Hopping   | 2500            | -61.93      | 2.77       | 1.12             | 37.22      | Average  | 54             | Pass    |

## Test Graphs

Restrict Band NVNT 1-DH5 2402MHz Ant3 No-Hopping Peak



Restrict Band NVNT 1-DH5 2402MHz Ant3 No-Hopping Average

