



## Appendix A

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

Product Name: Bluetooth Earbuds with charging case

Test Model: BTO200

#### Environmental Conditions

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



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## A.1 -20dB Bandwidth

| Condition | Mode  | Frequency (MHz) | Antenna | -20 dB Bandwidth (MHz) | Limit -20 dB Bandwidth (MHz) | Verdict |
|-----------|-------|-----------------|---------|------------------------|------------------------------|---------|
| NVNT      | 1-DH5 | 2402            | Ant1    | 0.941                  | N/A                          | Pass    |
| NVNT      | 1-DH5 | 2441            | Ant1    | 0.952                  | N/A                          | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | 0.965                  | N/A                          | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | 1.283                  | N/A                          | Pass    |
| NVNT      | 2-DH5 | 2441            | Ant1    | 1.273                  | N/A                          | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | 1.286                  | N/A                          | Pass    |



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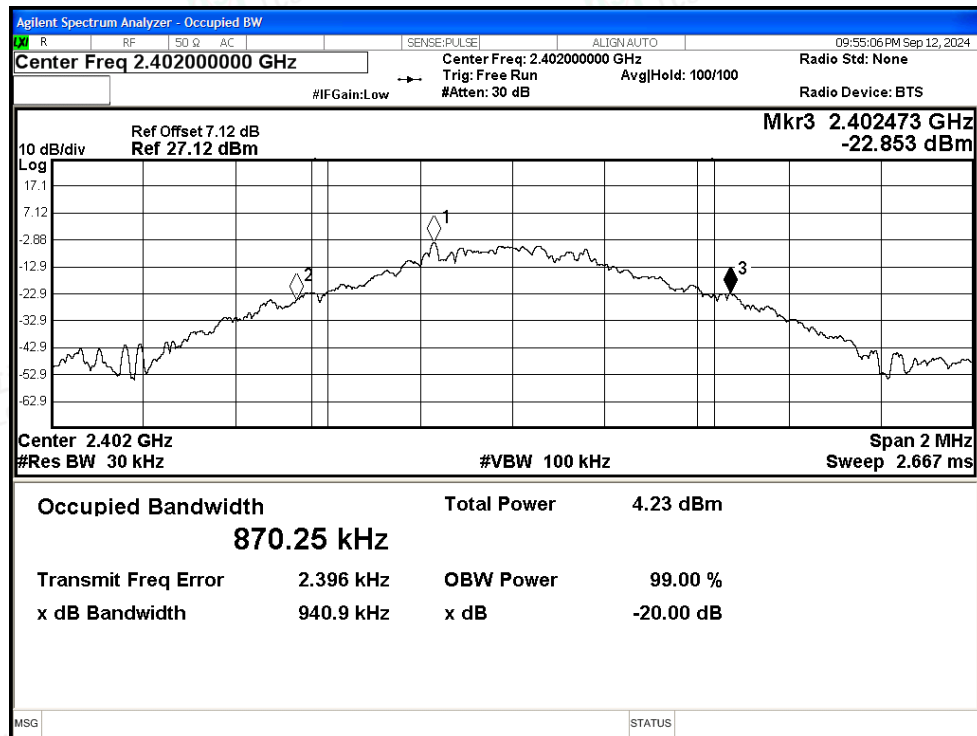
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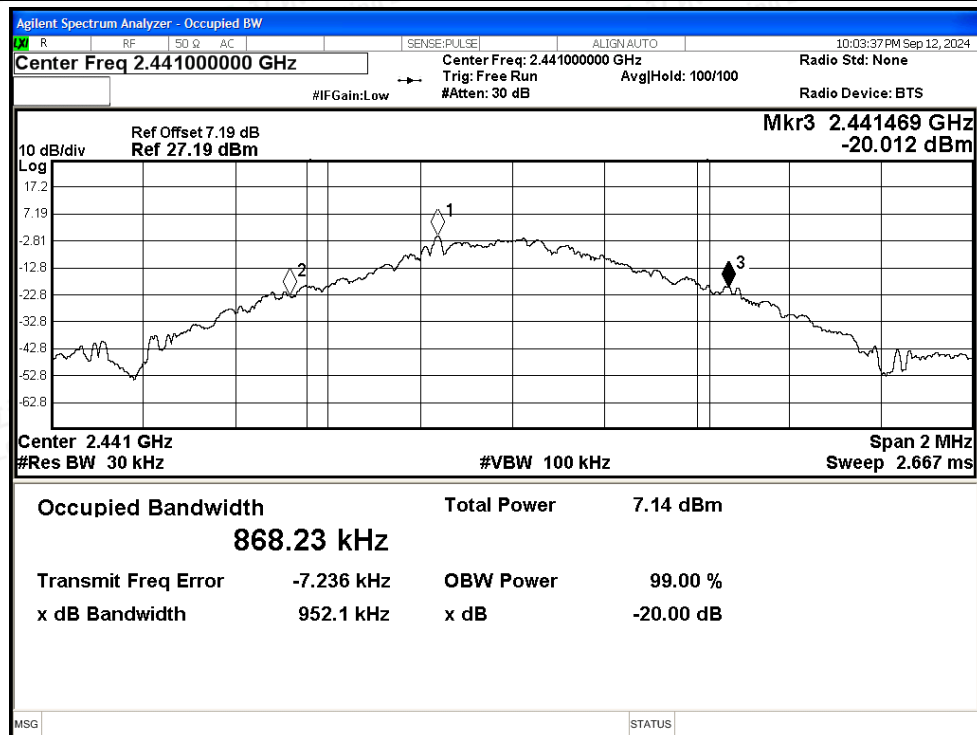


## Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



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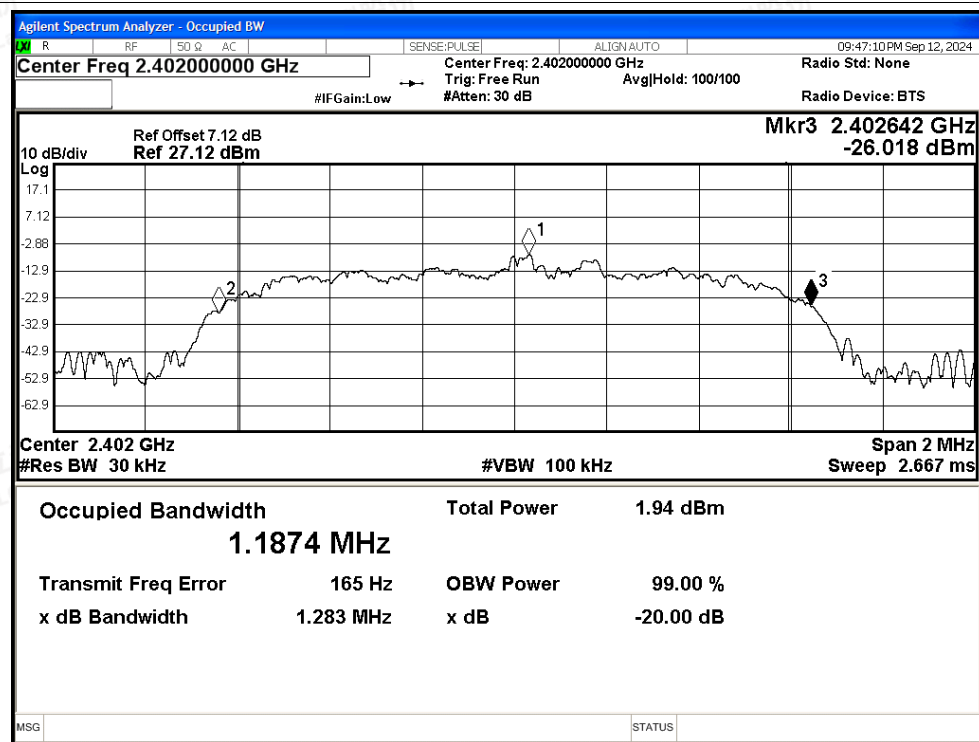
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## -20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



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



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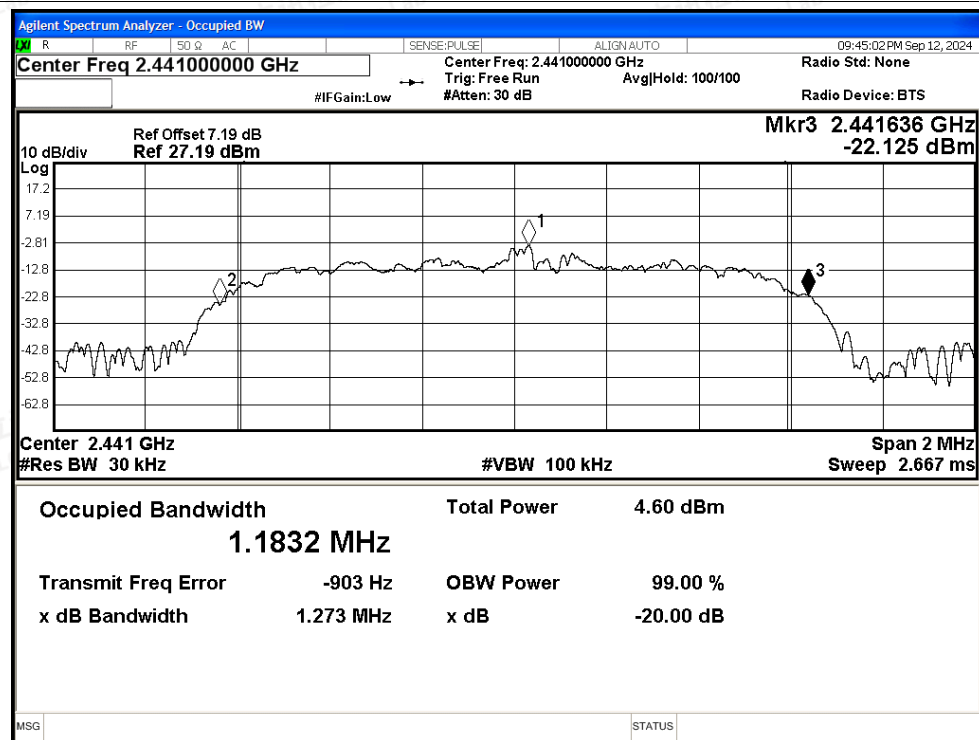
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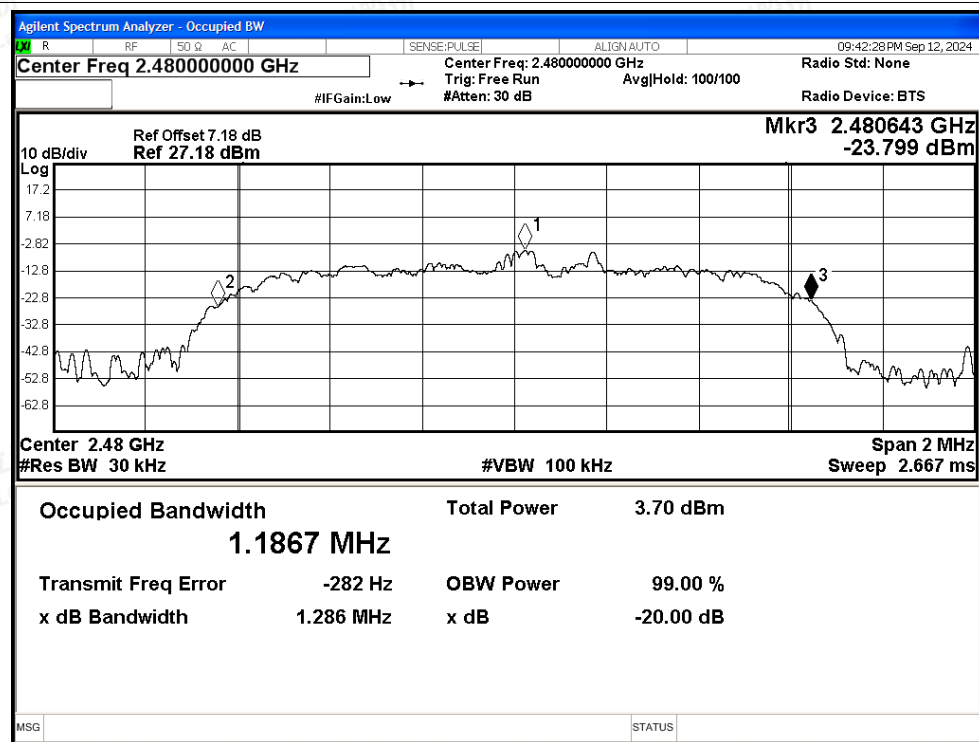
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## -20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



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



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## A.2 Maximum Peak Conducted Output Power

| Condition | Mode  | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|-------|-----------------|---------|-----------------------|-------------|---------|
| NVNT      | 1-DH5 | 2402            | Ant1    | -0.21                 | 21          | Pass    |
| NVNT      | 1-DH5 | 2441            | Ant1    | 0.79                  | 21          | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | -0.23                 | 21          | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | -0.24                 | 21          | Pass    |
| NVNT      | 2-DH5 | 2441            | Ant1    | 0.26                  | 21          | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | -0.81                 | 21          | Pass    |



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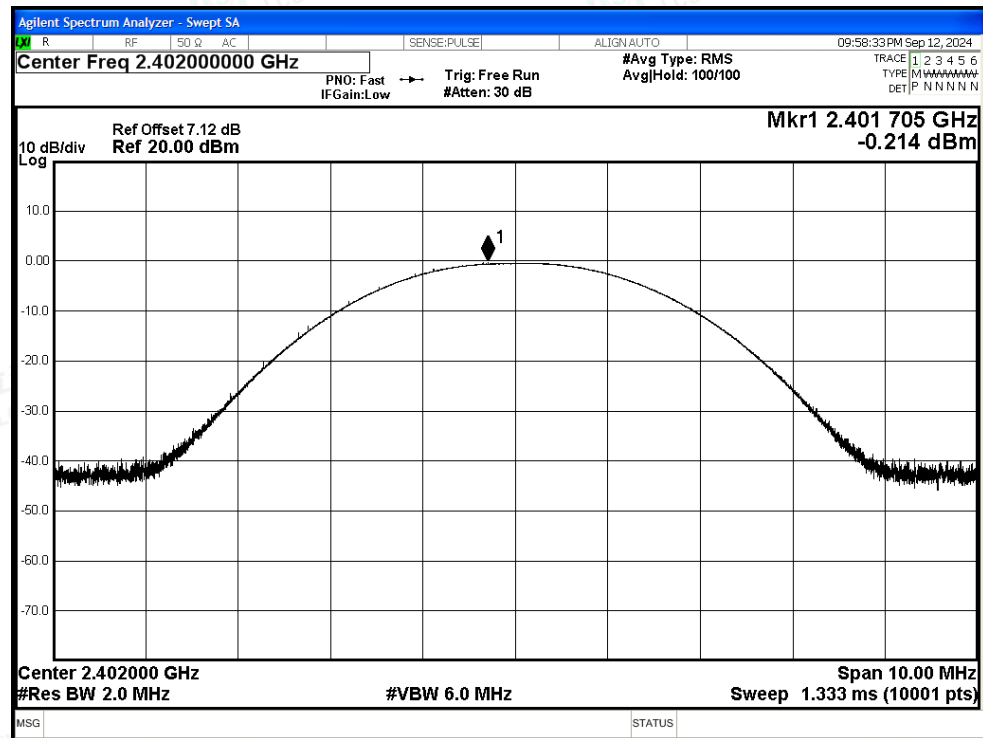
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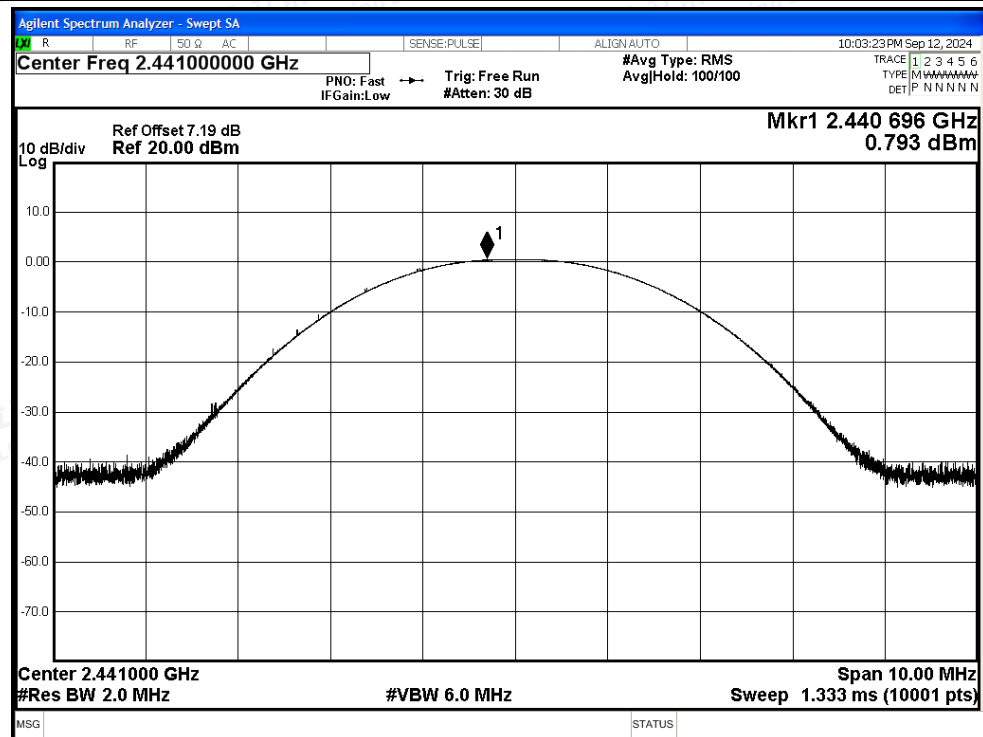


## Test Graphs

Power NVNT 1-DH5 2402MHz Ant1



Power NVNT 1-DH5 2441MHz Ant1

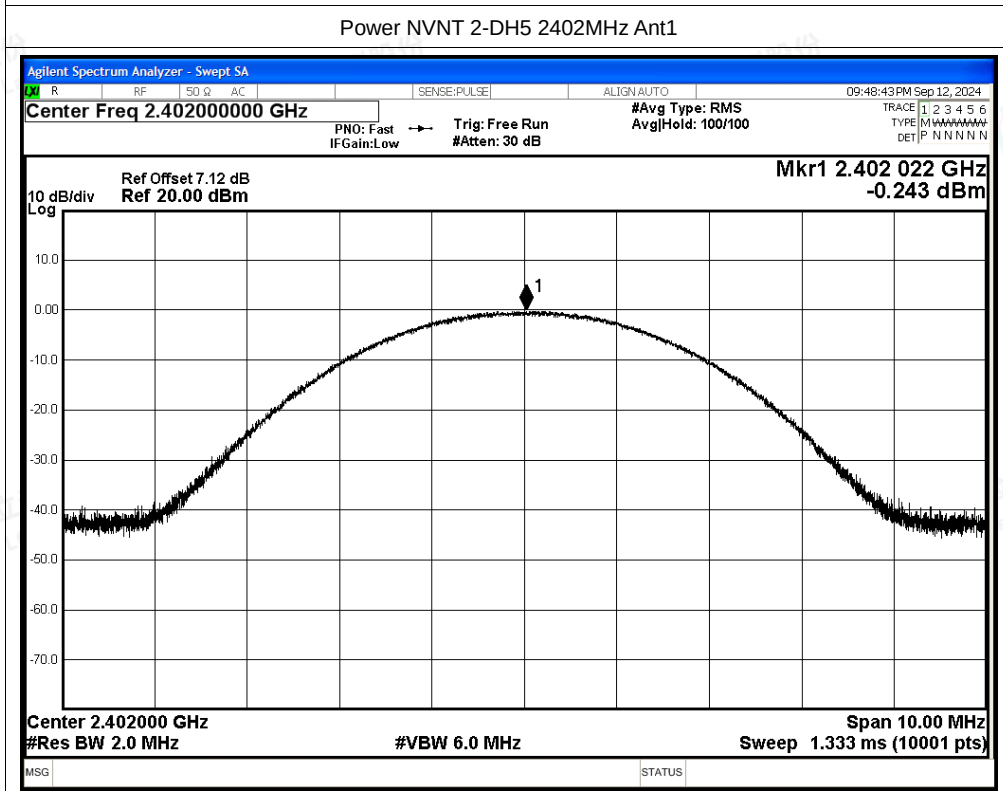
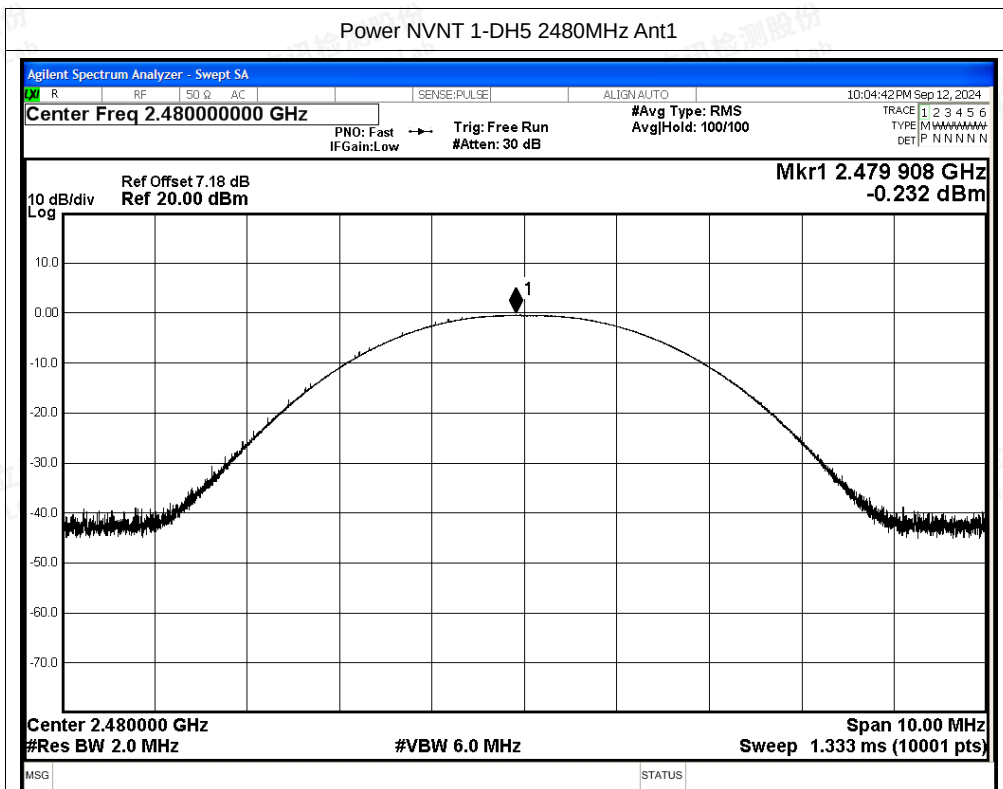


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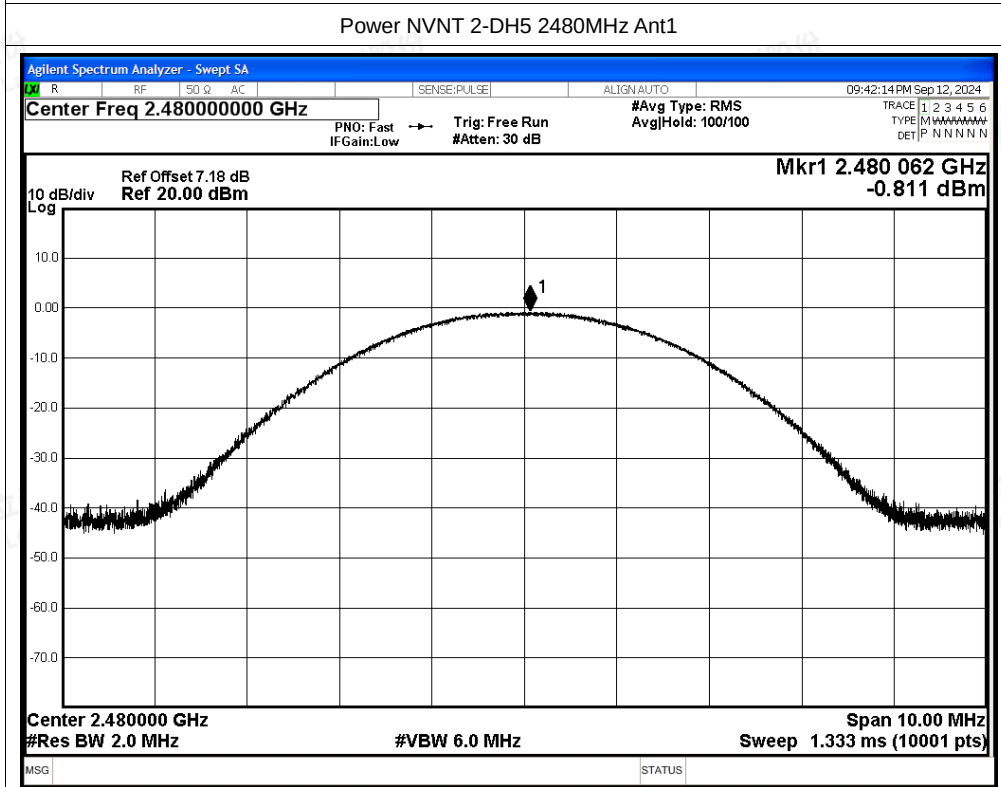
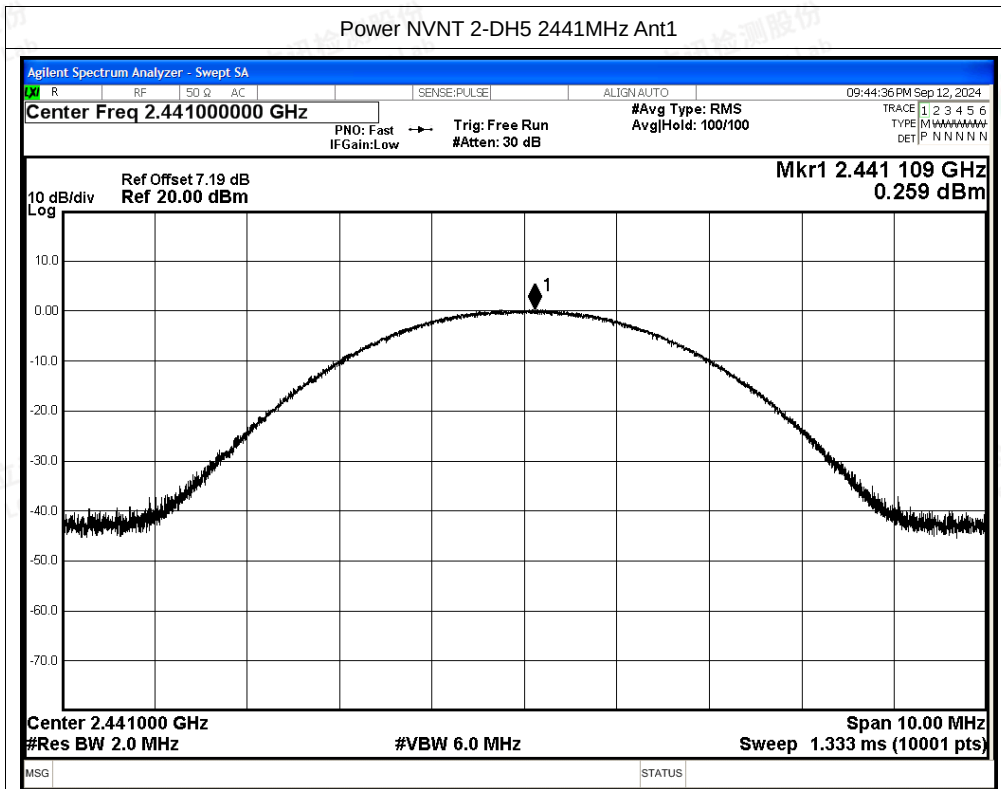
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### A.3 Carrier Frequencies Separation

| Condition | Mode  | Antenna | Hopping Freq1 (MHz) | Hopping Freq2 (MHz) | HFS (MHz) | Limit (MHz) | Verdict |
|-----------|-------|---------|---------------------|---------------------|-----------|-------------|---------|
| NVNT      | 1-DH5 | Ant1    | 2402.012            | 2402.824            | 0.812     | 0.643       | Pass    |
| NVNT      | 2-DH5 | Ant1    | 2402.018            | 2403.012            | 0.994     | 0.857       | Pass    |

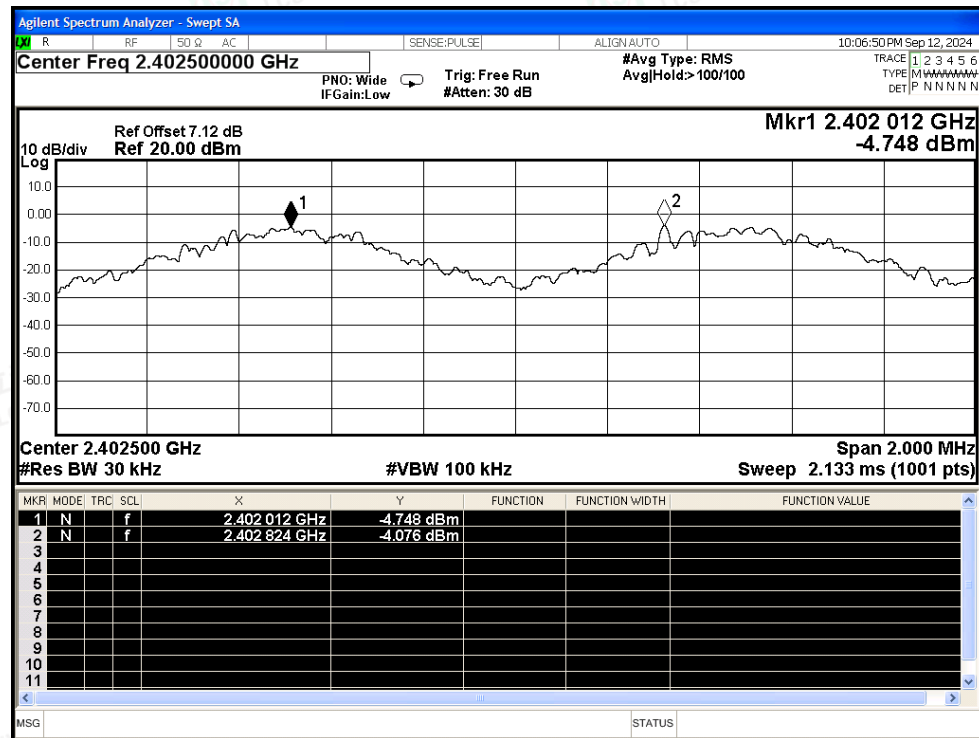


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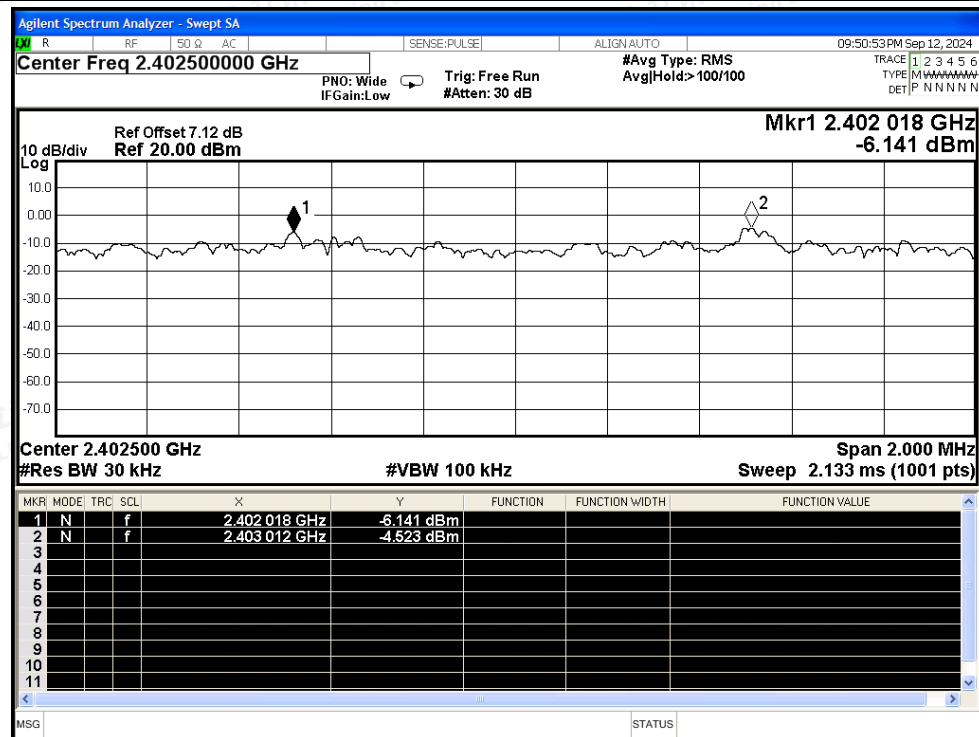


## Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1



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## A.4 Dwell Time

| Condition | Mode  | Frequency<br>(MHz) | Antenna | Pulse Time<br>(ms) | Total Dwell<br>Time (ms) | Burst<br>Count | Period Time<br>(ms) | Limit<br>(ms) | Verdict |
|-----------|-------|--------------------|---------|--------------------|--------------------------|----------------|---------------------|---------------|---------|
| NVNT      | 1-DH5 | 2402               | Ant1    | 2.91               | 264.81                   | 91             | 31600               | 400           | Pass    |
| NVNT      | 2-DH5 | 2402               | Ant1    | 2.898              | 318.78                   | 110            | 31600               | 400           | Pass    |



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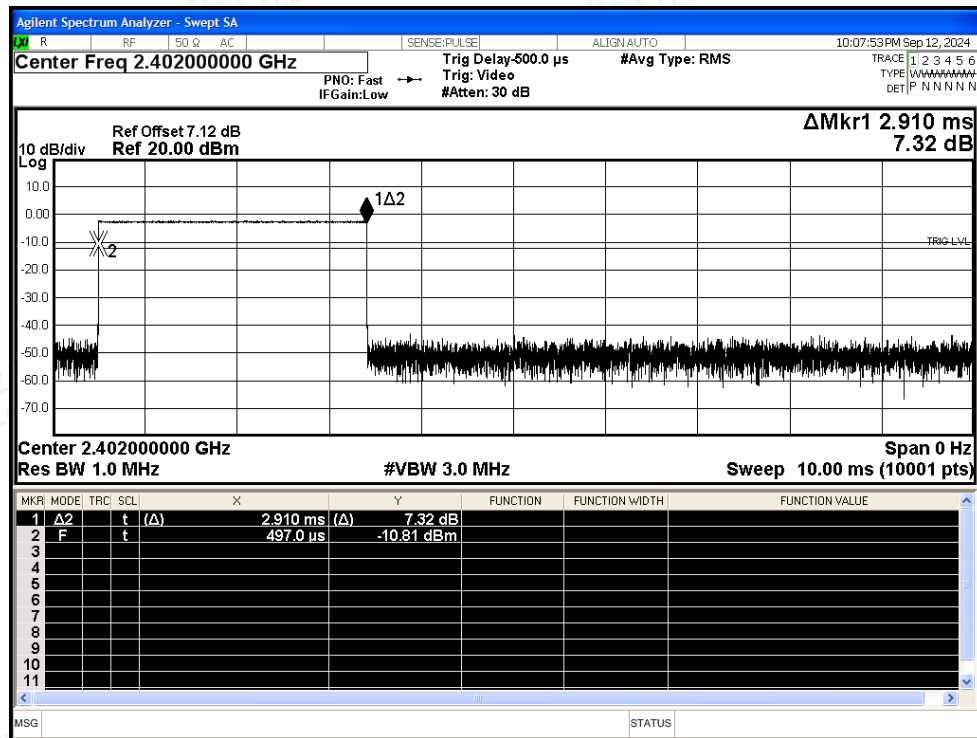
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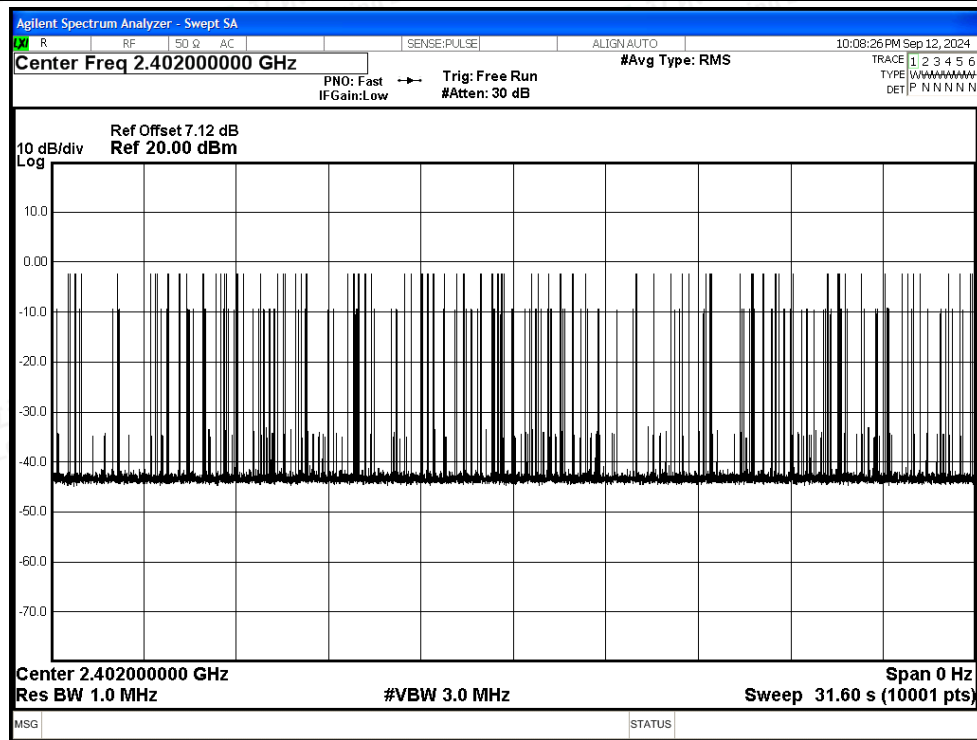


## Test Graphs

## Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



## Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



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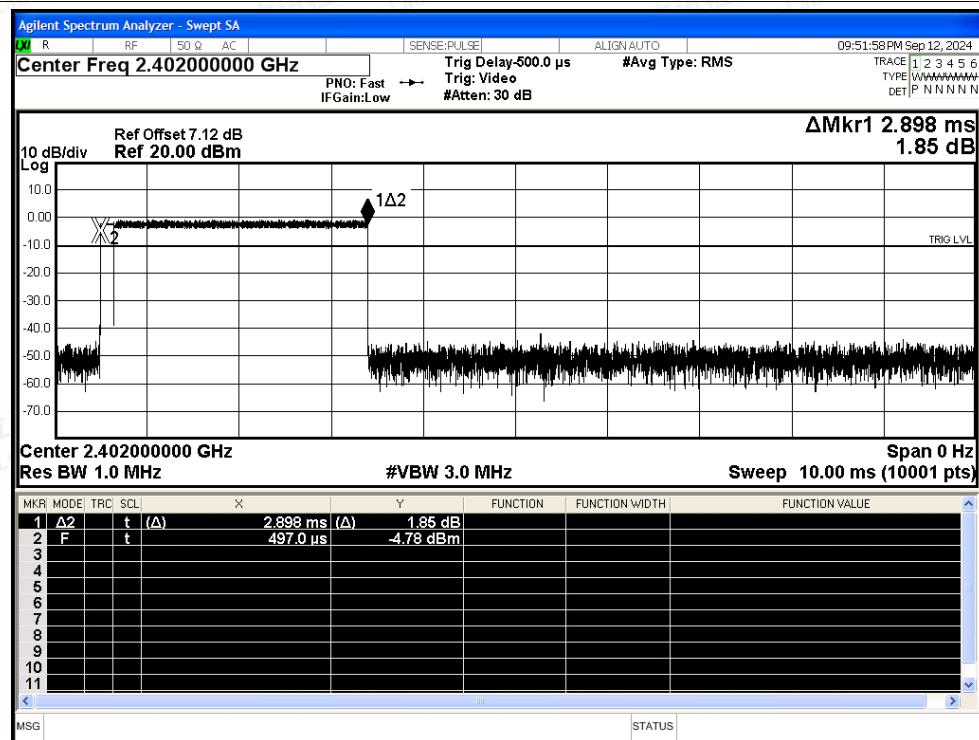
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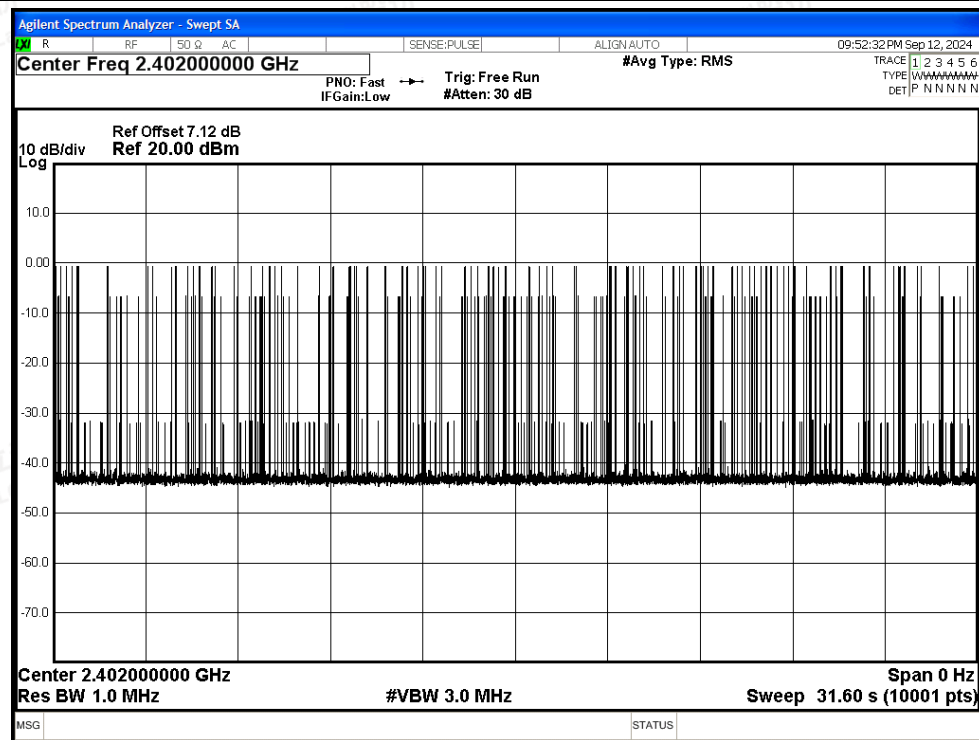
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## Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



## Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



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## A.5 Number of Hopping Channel

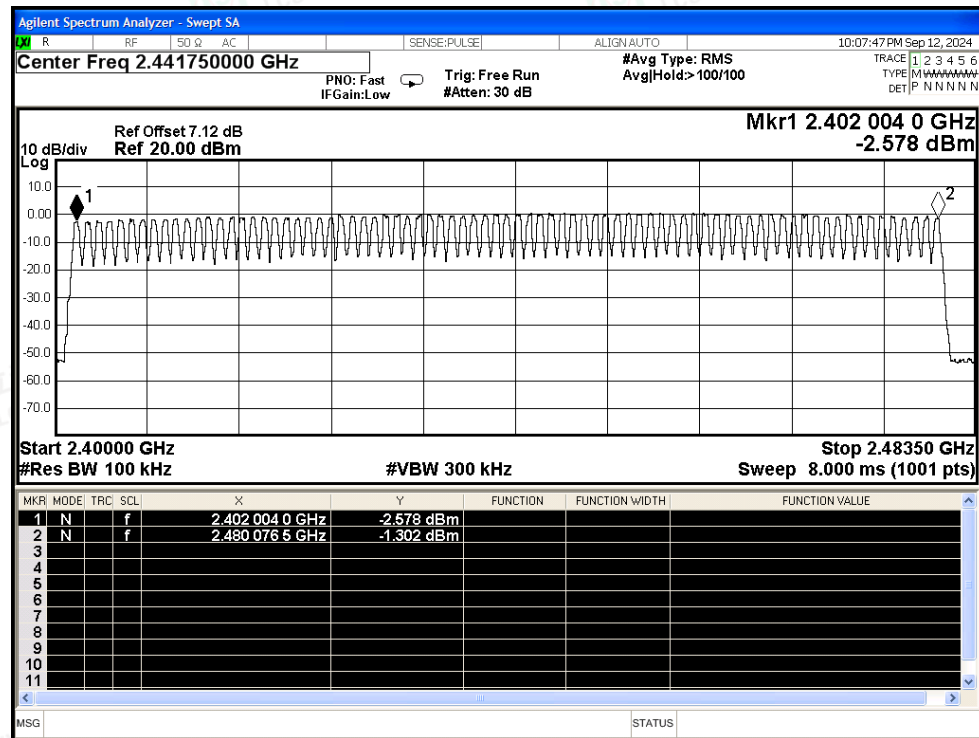
| Condition | Mode  | Antenna | Hopping Number | Limit | Verdict |
|-----------|-------|---------|----------------|-------|---------|
| NVNT      | 1-DH5 | Ant1    | 79             | 15    | Pass    |
| NVNT      | 2-DH5 | Ant1    | 79             | 15    | Pass    |



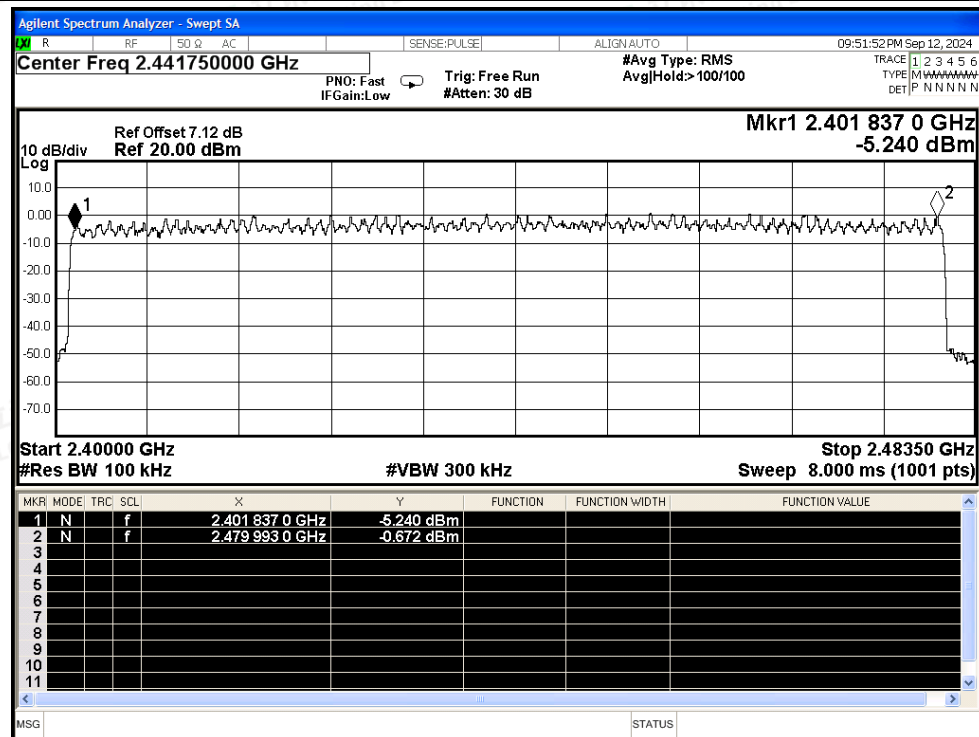


## Test Graphs

## Hopping No. NVNT 1-DH5 2402MHz Ant1



## Hopping No. NVNT 2-DH5 2402MHz Ant1



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## A.6 Band Edge

| Condition | Mode  | Frequency (MHz) | Antenna | Hopping Mode | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|-------|-----------------|---------|--------------|-----------------|-------------|---------|
| NVNT      | 1-DH5 | 2402            | Ant1    | No-Hopping   | -47.81          | -20         | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | No-Hopping   | -50.65          | -20         | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | No-Hopping   | -46.79          | -20         | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | No-Hopping   | -49.22          | -20         | Pass    |



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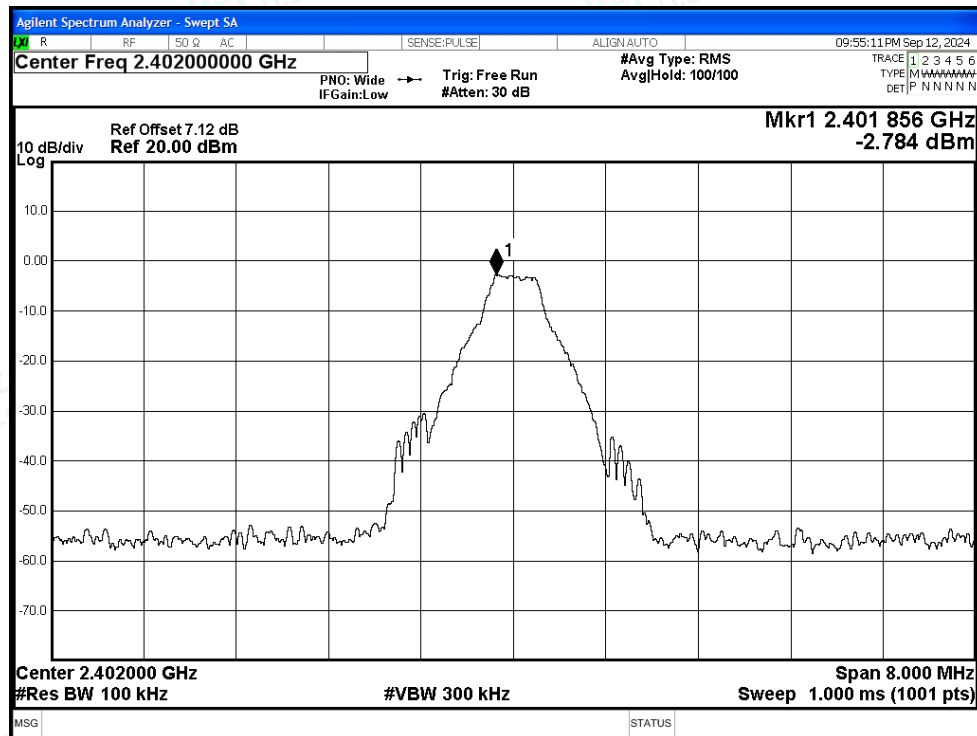
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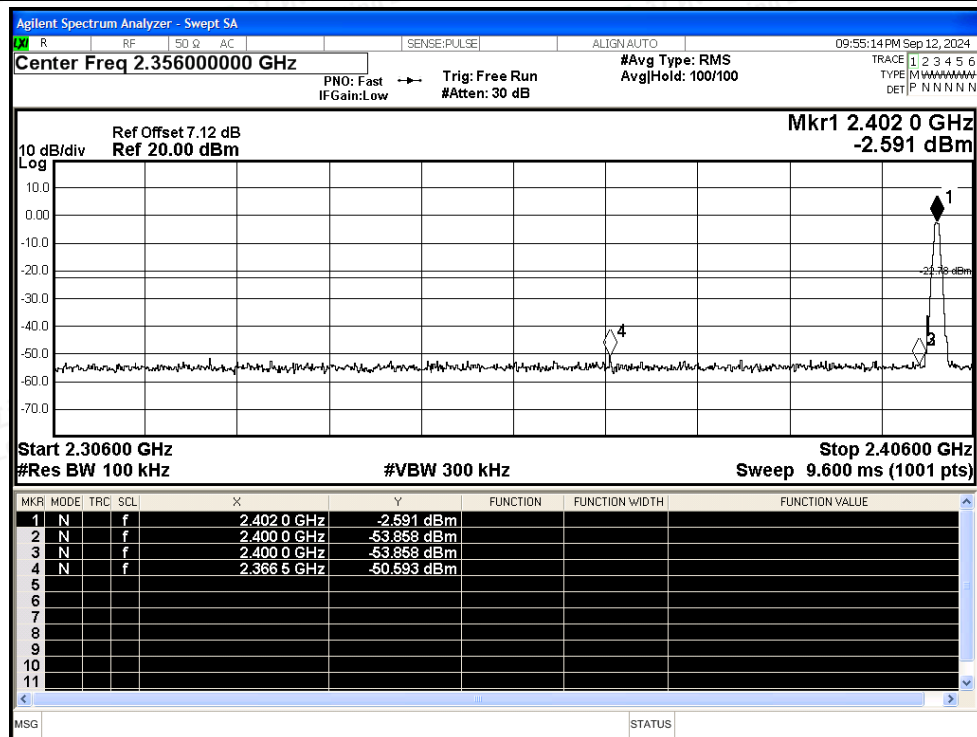


## Test Graphs

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



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



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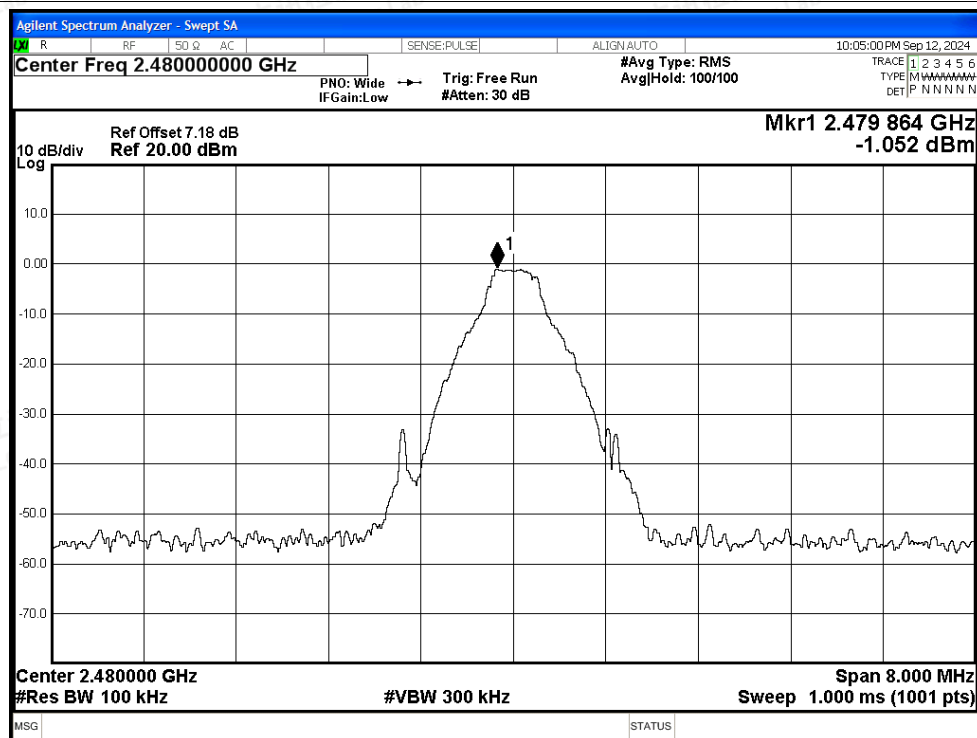
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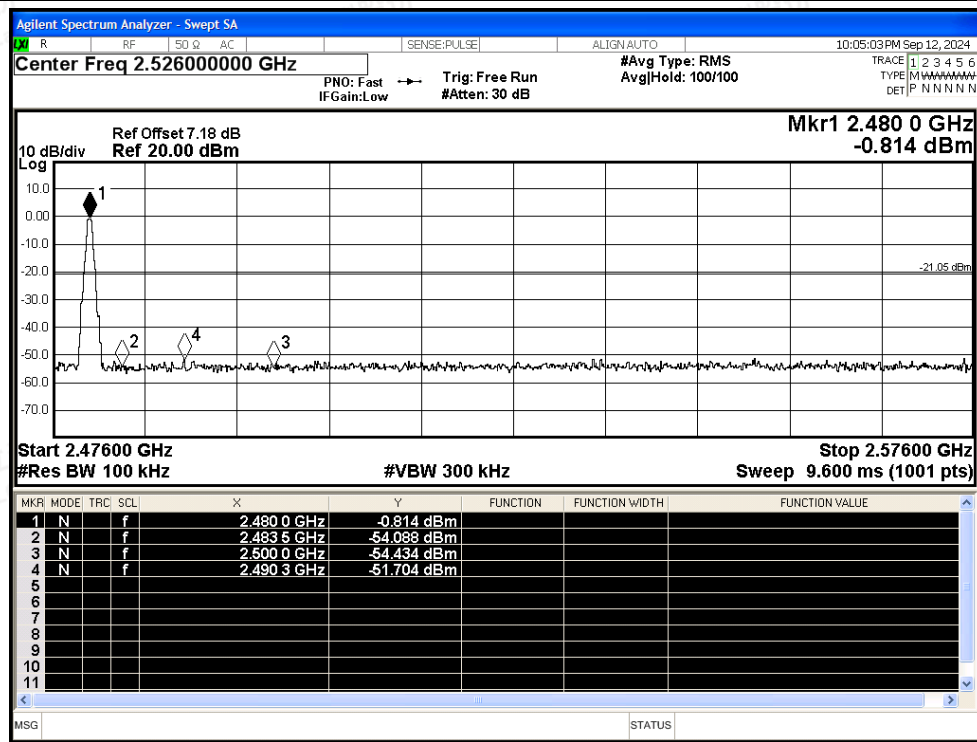
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## Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



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



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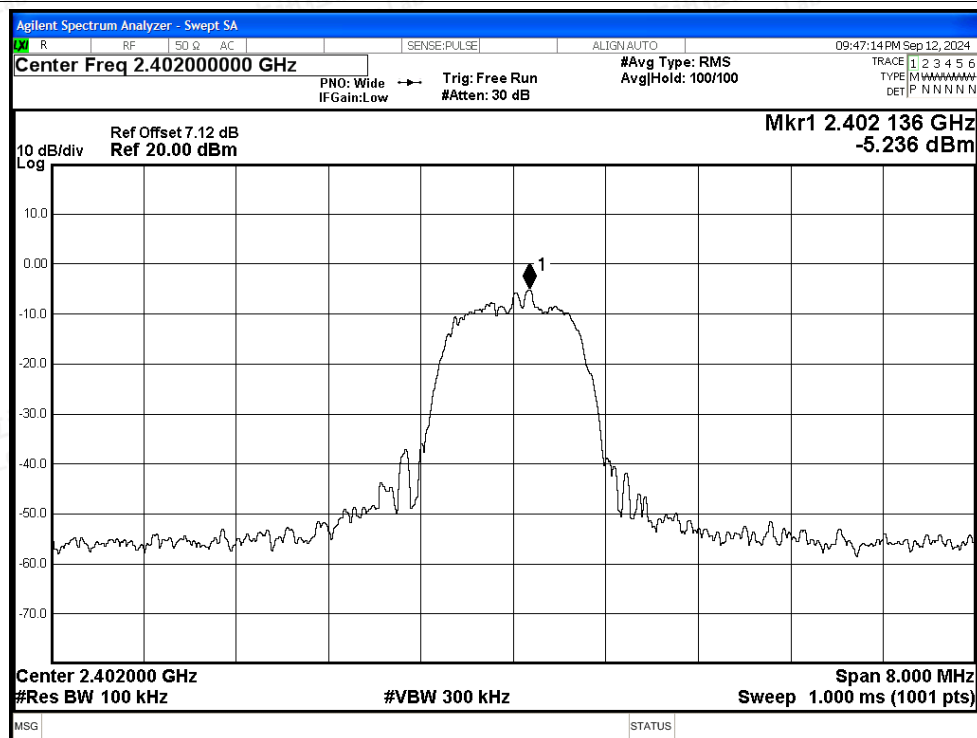
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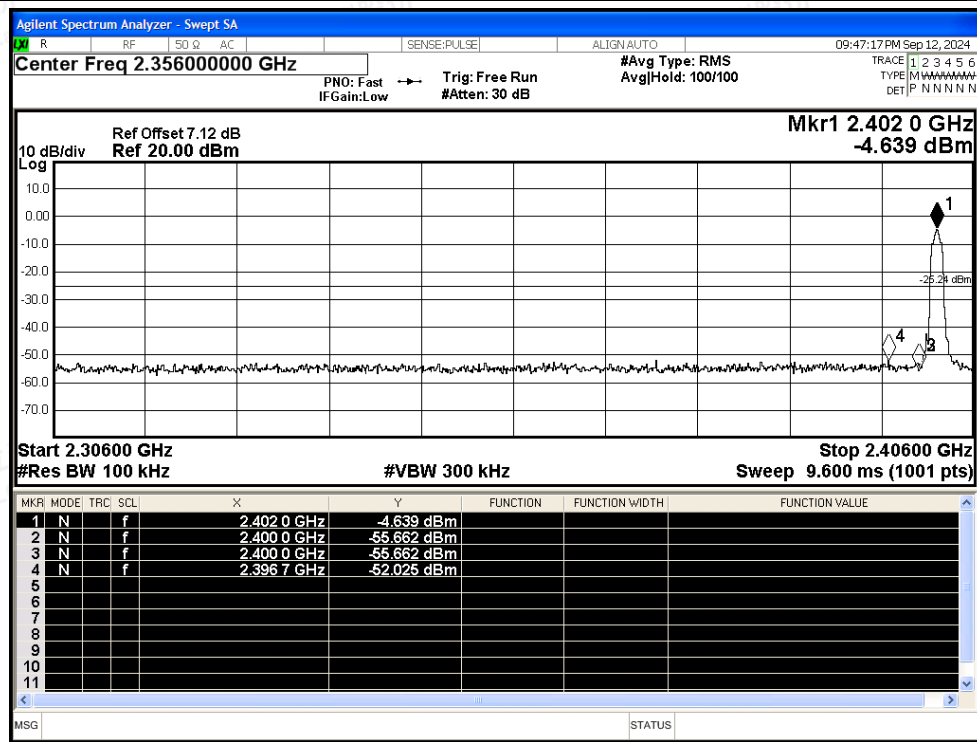
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## Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



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



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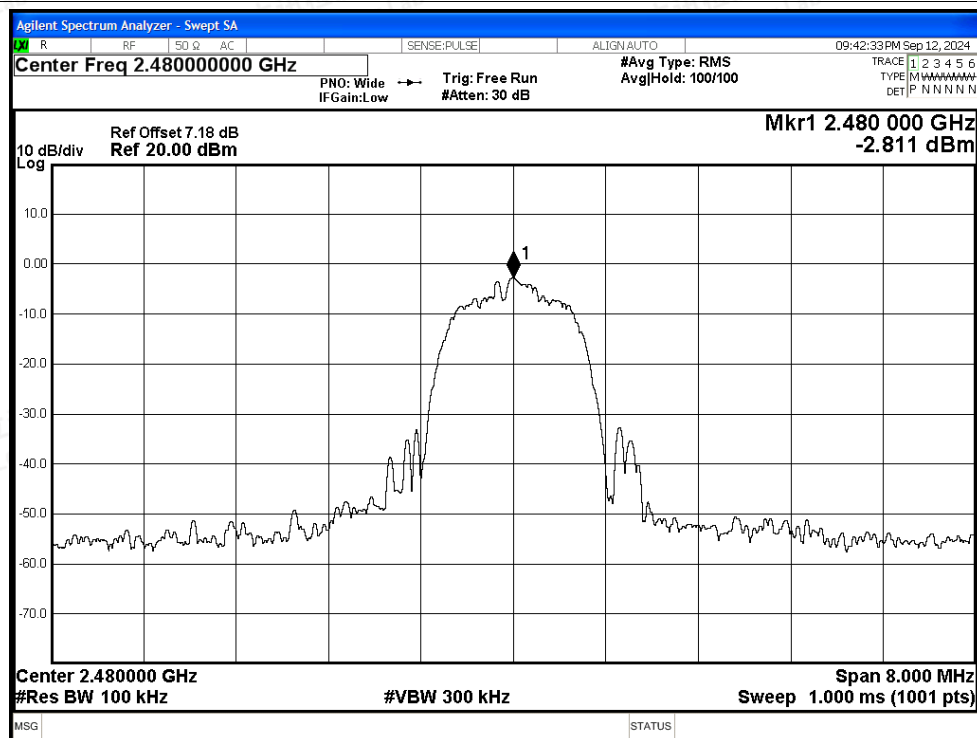
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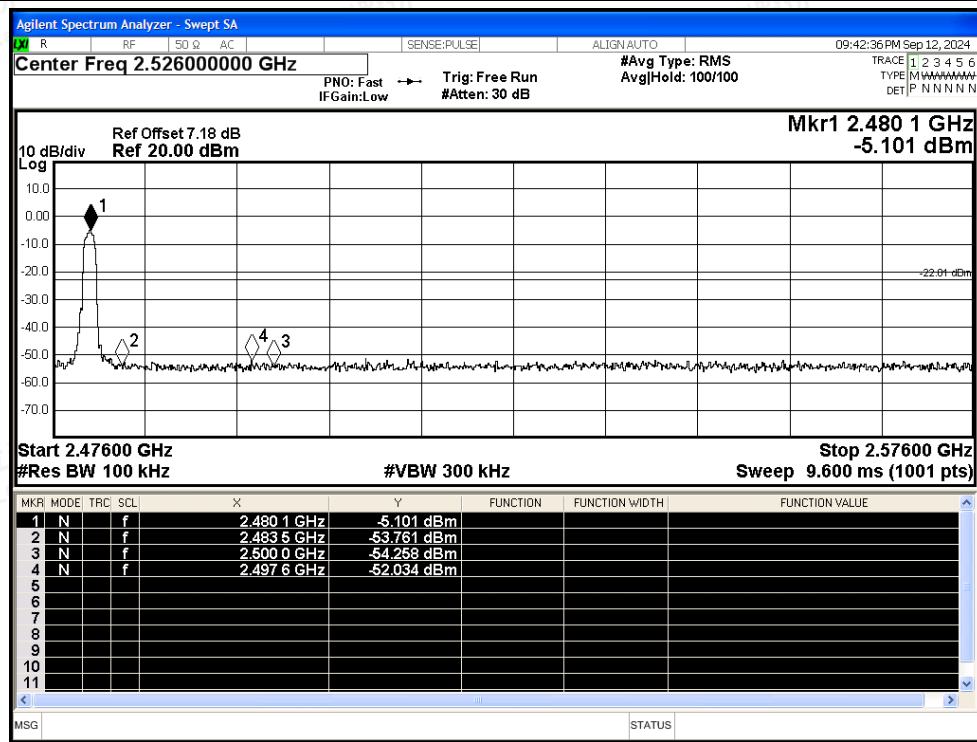
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## Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



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



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## (Hopping)

| Condition | Mode  | Frequency (MHz) | Antenna | Hopping Mode | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|-------|-----------------|---------|--------------|-----------------|-------------|---------|
| NVNT      | 1-DH5 | 2402            | Ant1    | Hopping      | -49.28          | -20         | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | Hopping      | -50.19          | -20         | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | Hopping      | -48.35          | -20         | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | Hopping      | -50.34          | -20         | Pass    |



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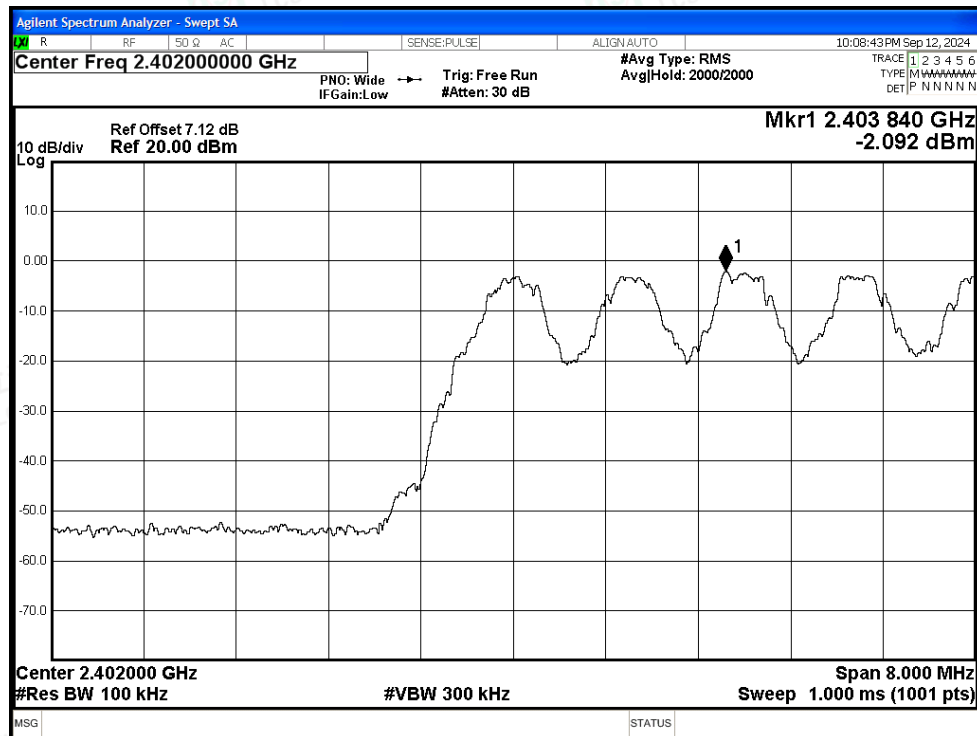
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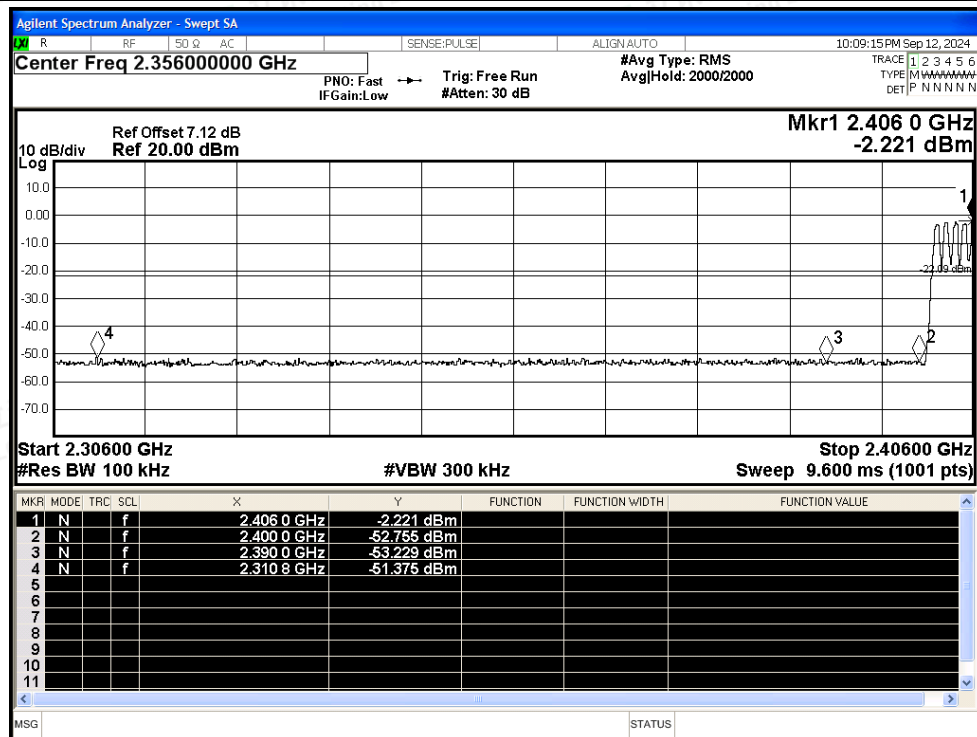


## Test Graphs

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



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



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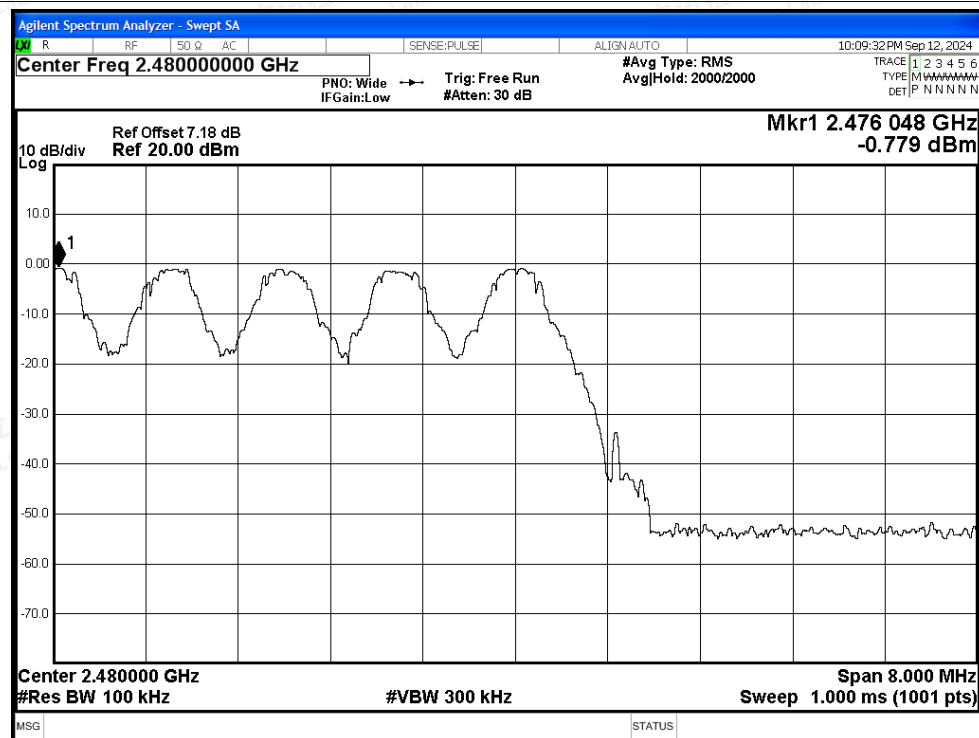
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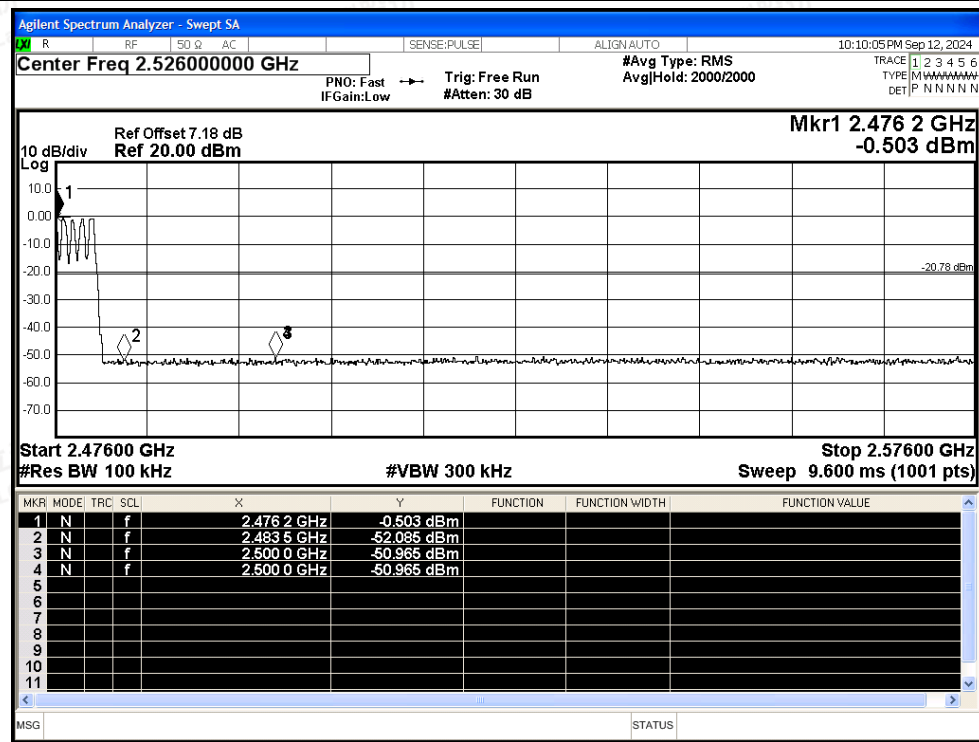
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## Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



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



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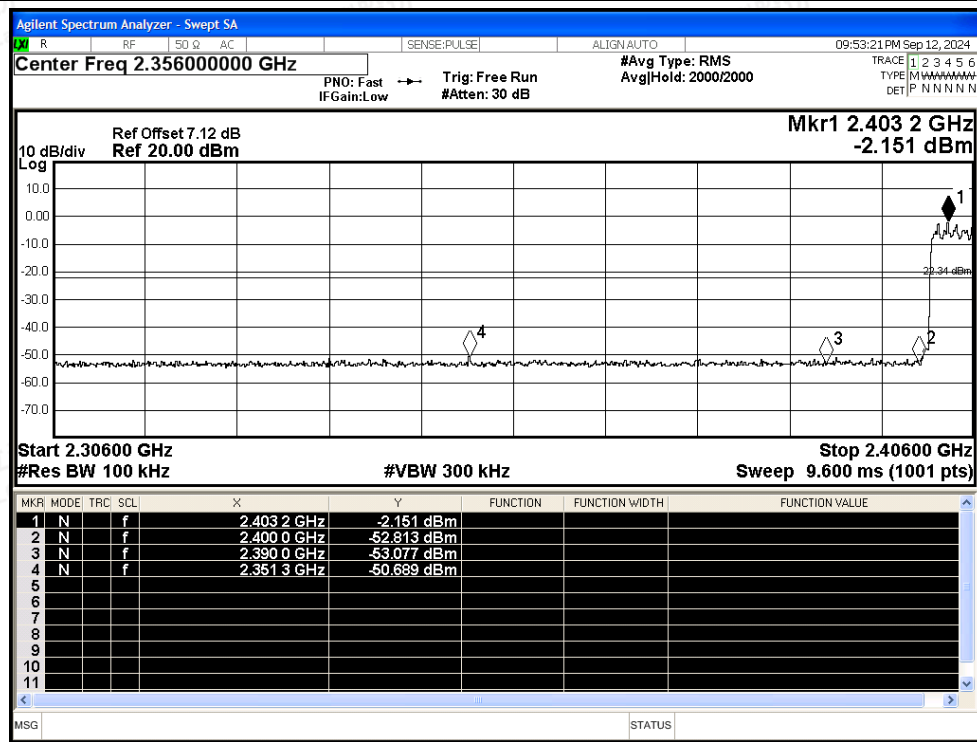




## Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



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



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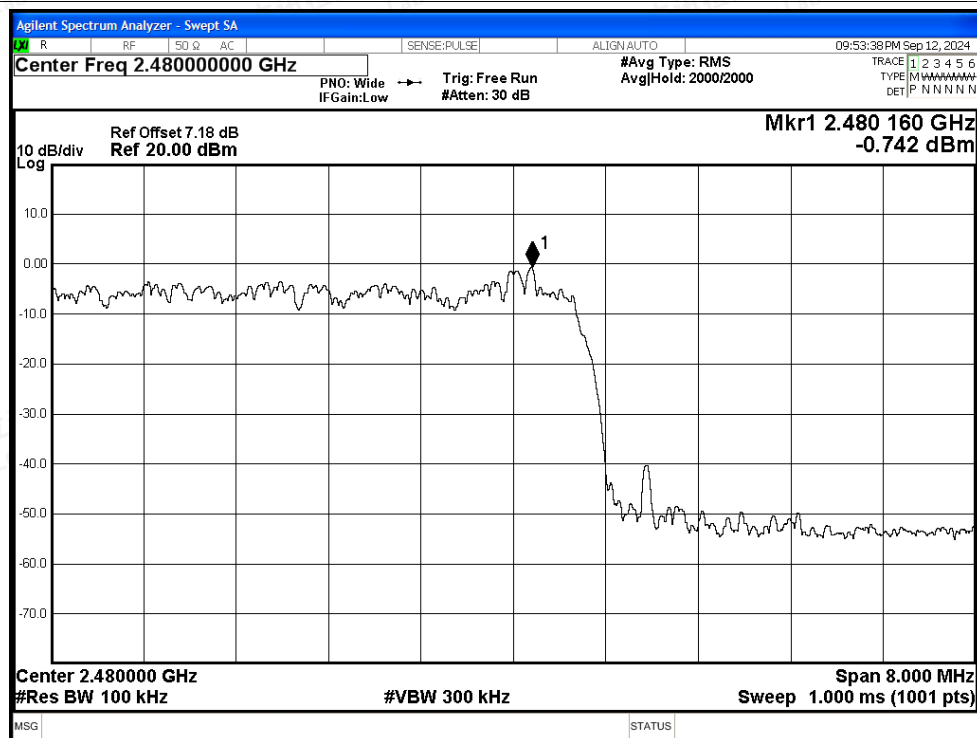
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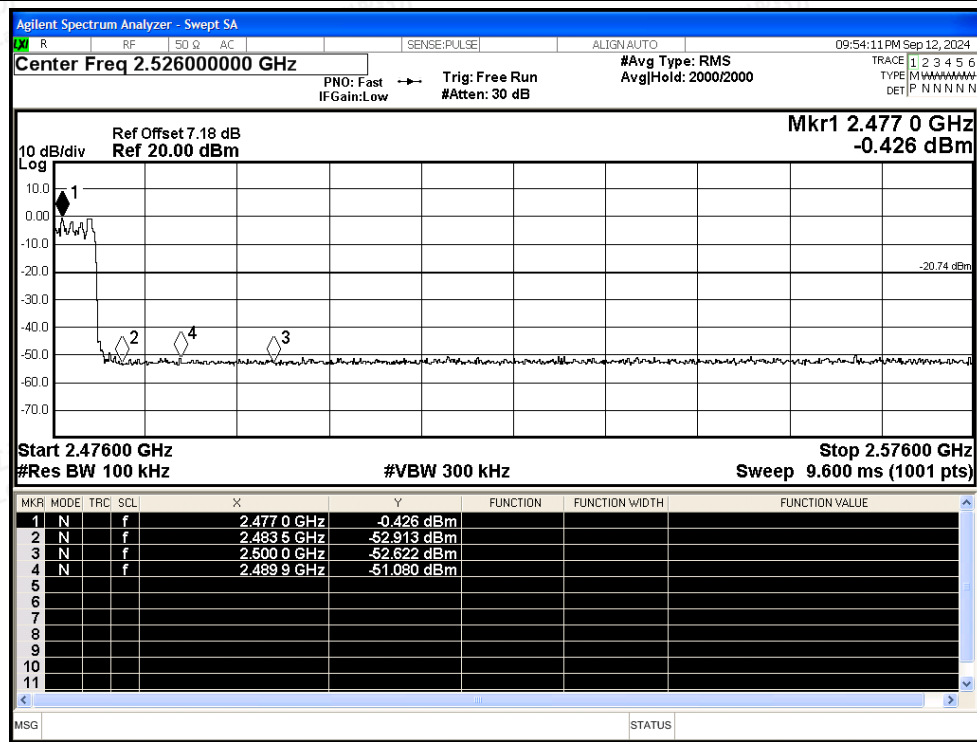
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## Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



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



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## A.7 Conducted RF Spurious Emission

| Condition | Mode  | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|-------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | 1-DH5 | 2402            | Ant1    | -47.26          | -20         | Pass    |
| NVNT      | 1-DH5 | 2441            | Ant1    | -50.35          | -20         | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | -48.61          | -20         | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | -44.85          | -20         | Pass    |
| NVNT      | 2-DH5 | 2441            | Ant1    | -48.38          | -20         | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | -46.28          | -20         | Pass    |



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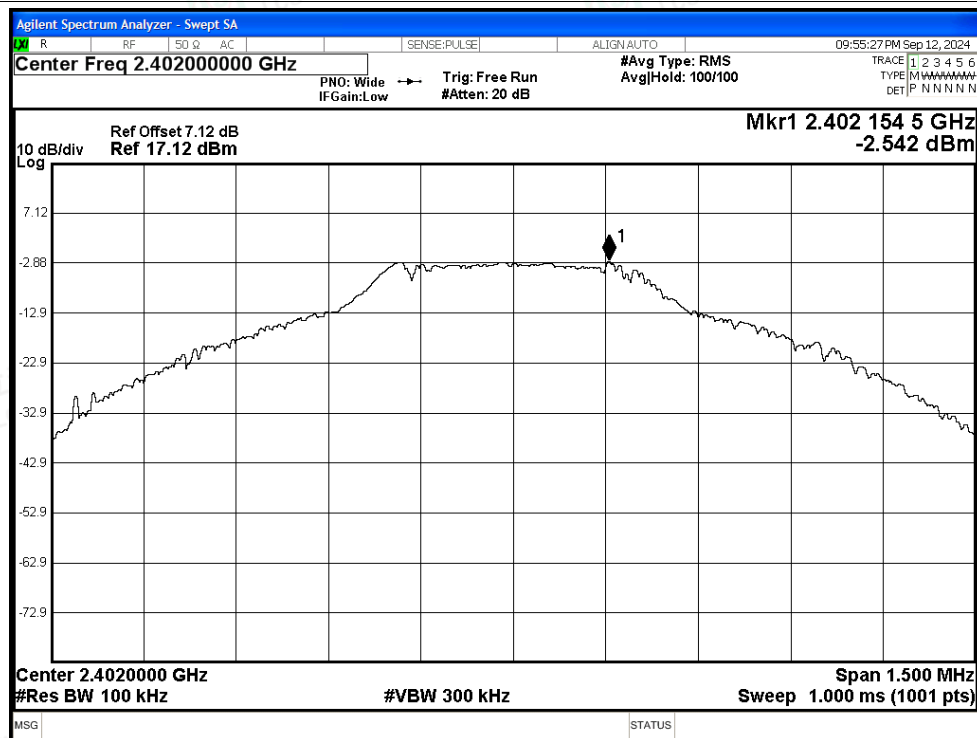
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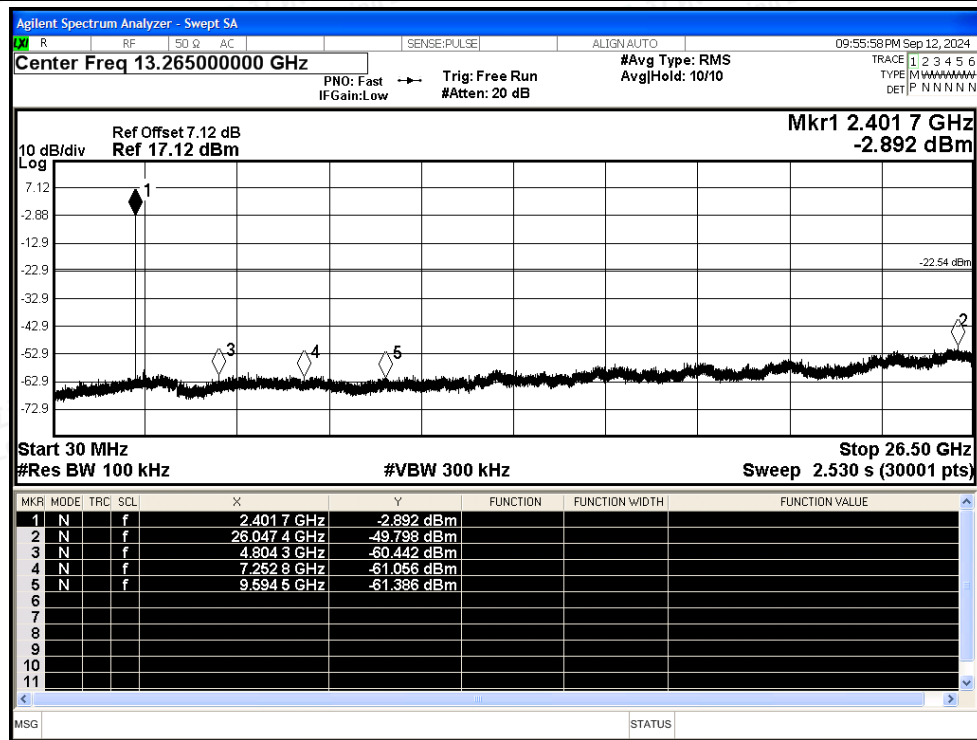


## Test Graphs

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



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



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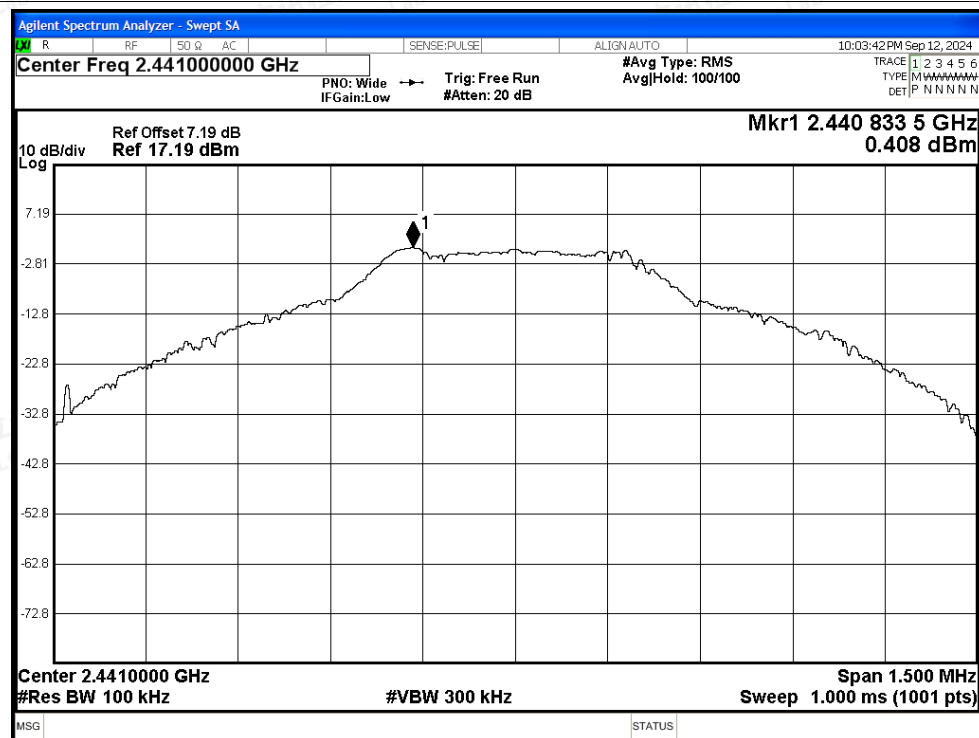
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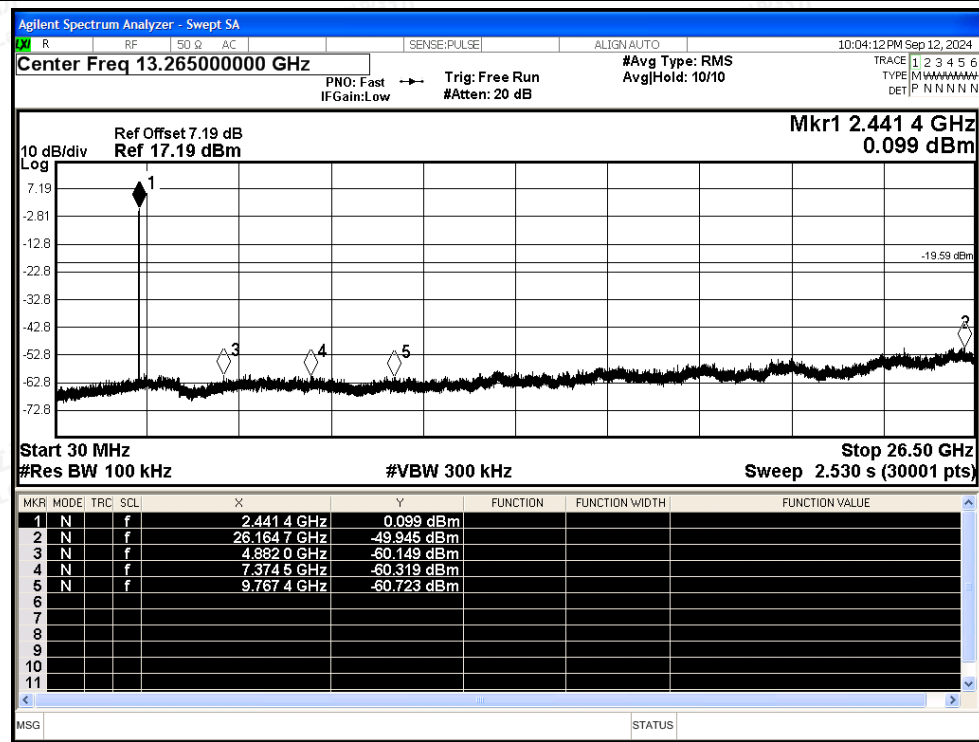
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## Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



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



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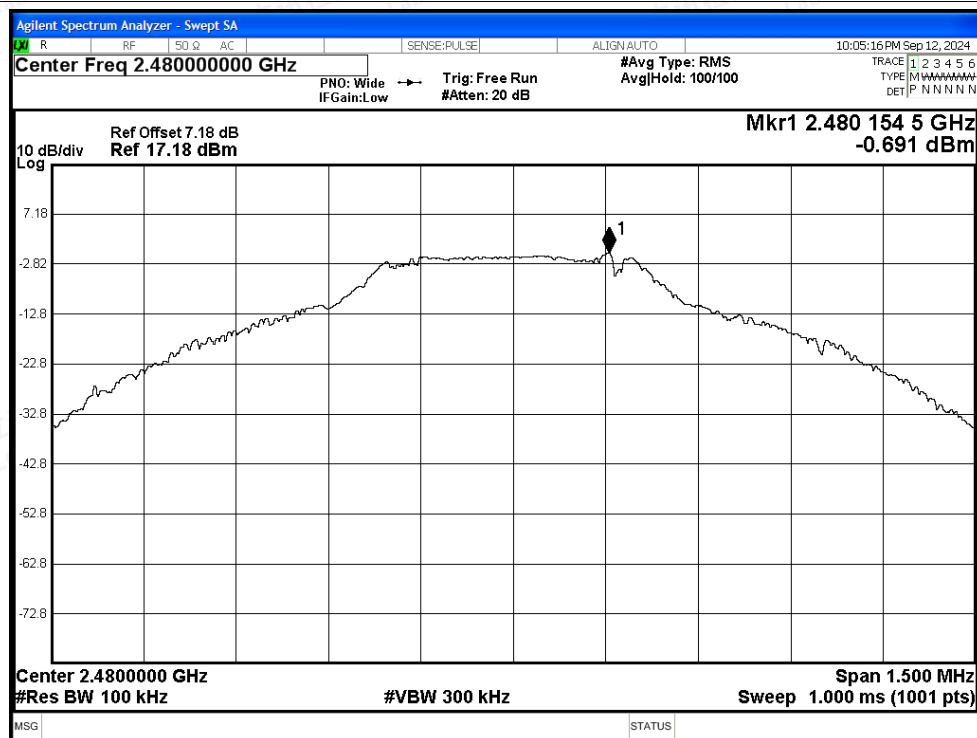
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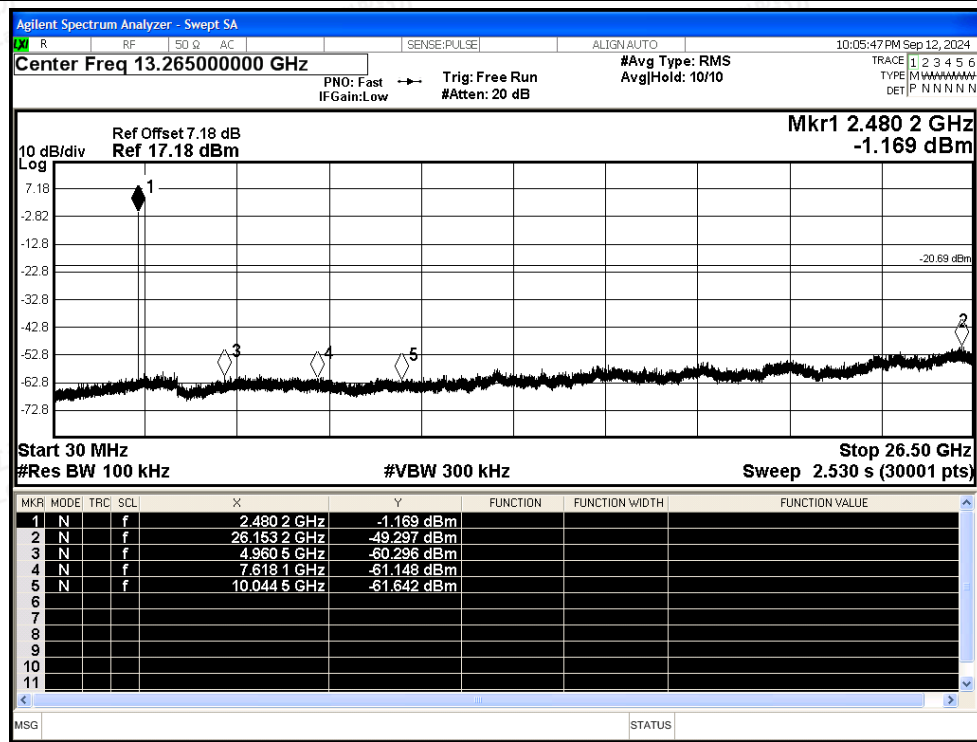
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## Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

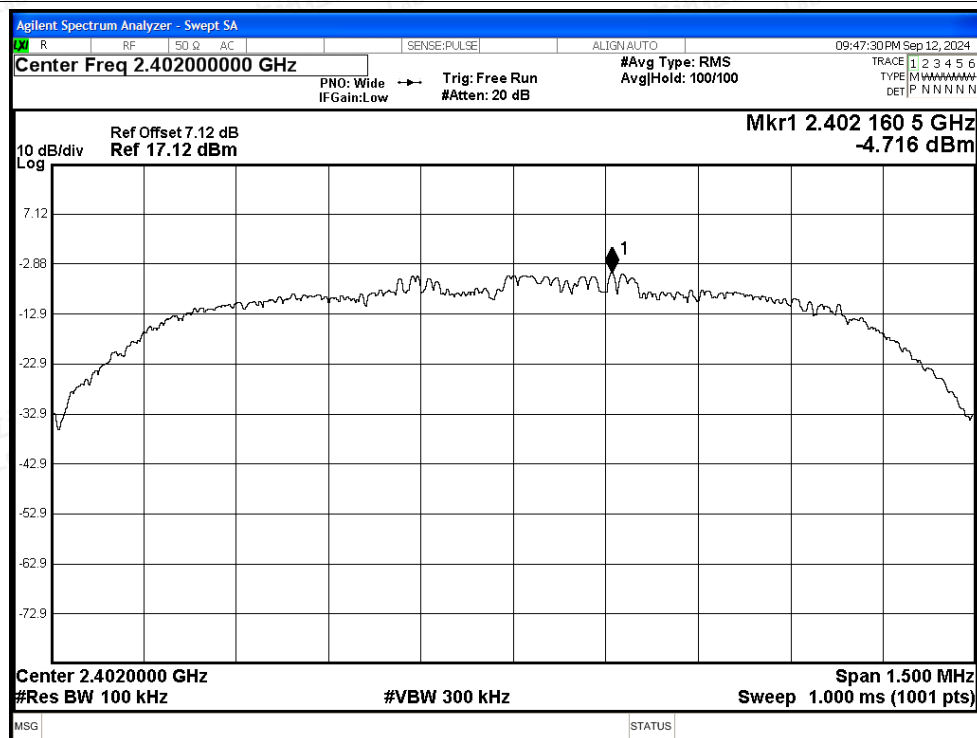
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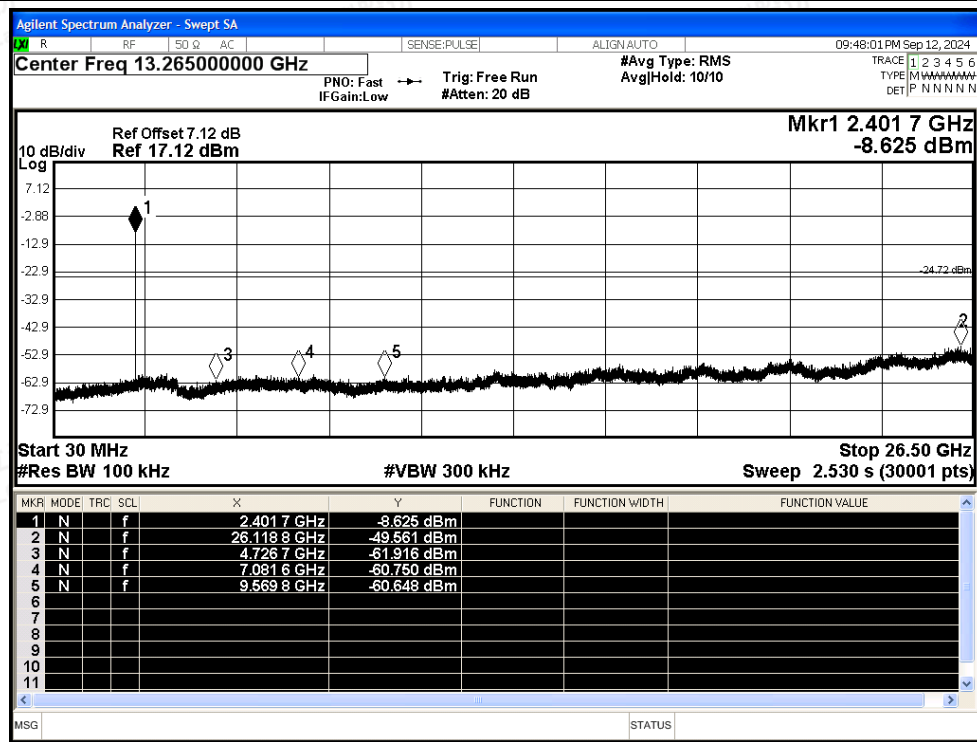
Scan code to check authenticity



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



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



Shenzhen LCS Compliance Testing Laboratory Ltd.

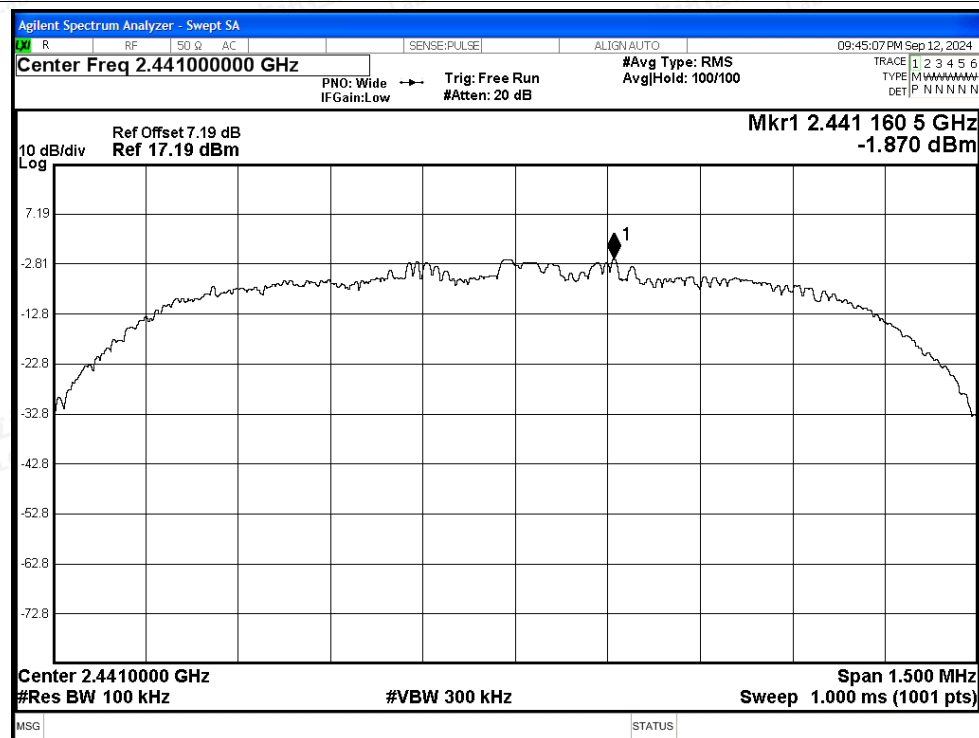
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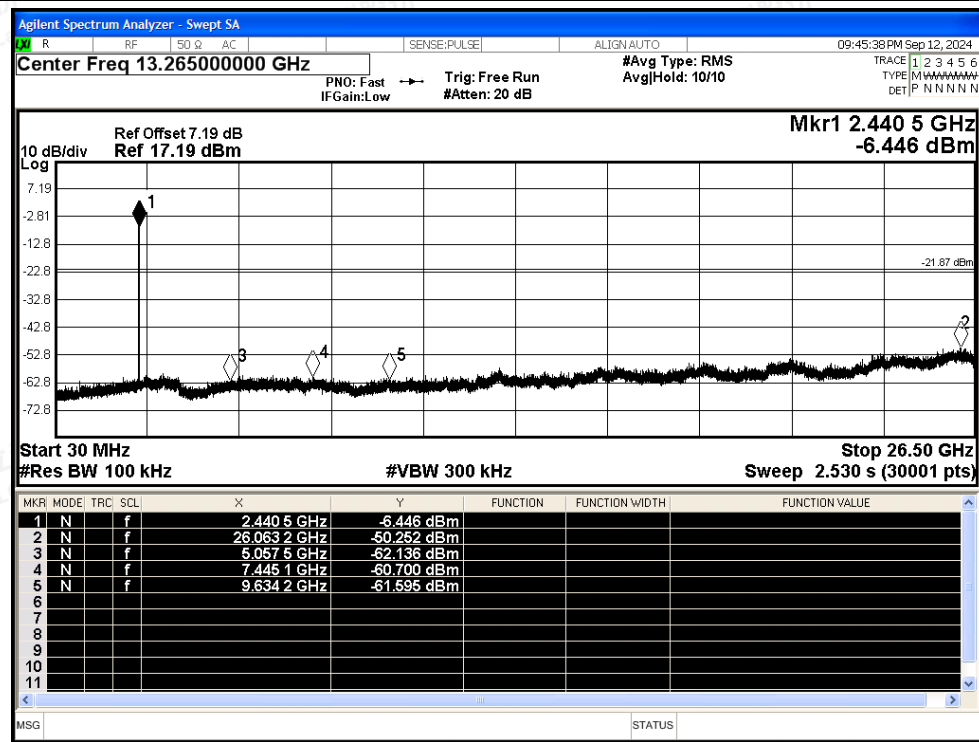
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## Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



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



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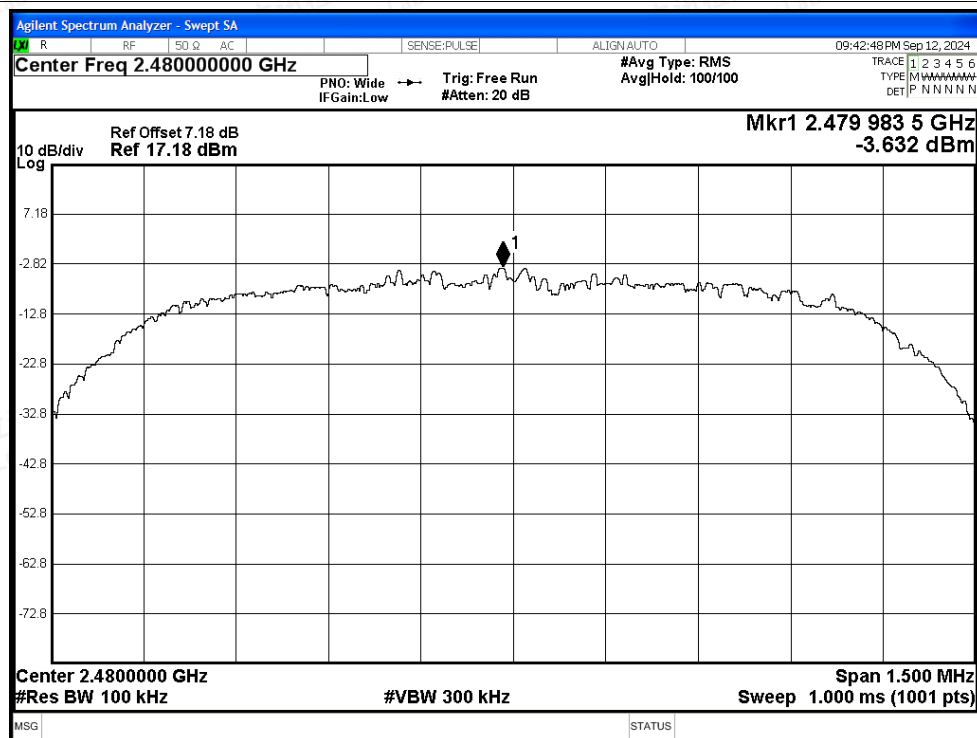
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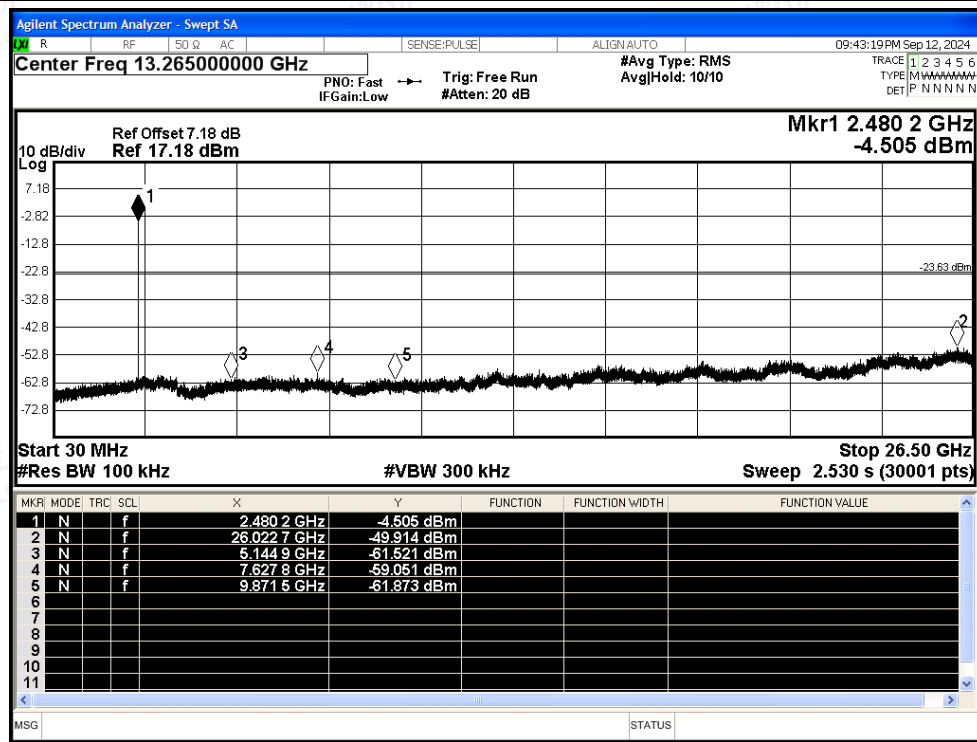




## Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



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



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## A.8 Duty Cycle

| Condition | Mode  | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|-------|-----------------|---------|----------------|------------------------|-----------|
| NVNT      | 1-DH5 | 2402            | Ant1    | 77.6           | 1.1                    | 0.34      |
| NVNT      | 1-DH5 | 2441            | Ant1    | 77.63          | 1.1                    | 0.34      |
| NVNT      | 1-DH5 | 2480            | Ant1    | 77.63          | 1.1                    | 0.34      |
| NVNT      | 2-DH5 | 2402            | Ant1    | 77.28          | 1.12                   | 0.35      |
| NVNT      | 2-DH5 | 2441            | Ant1    | 77.28          | 1.12                   | 0.35      |
| NVNT      | 2-DH5 | 2480            | Ant1    | 77.28          | 1.12                   | 0.35      |



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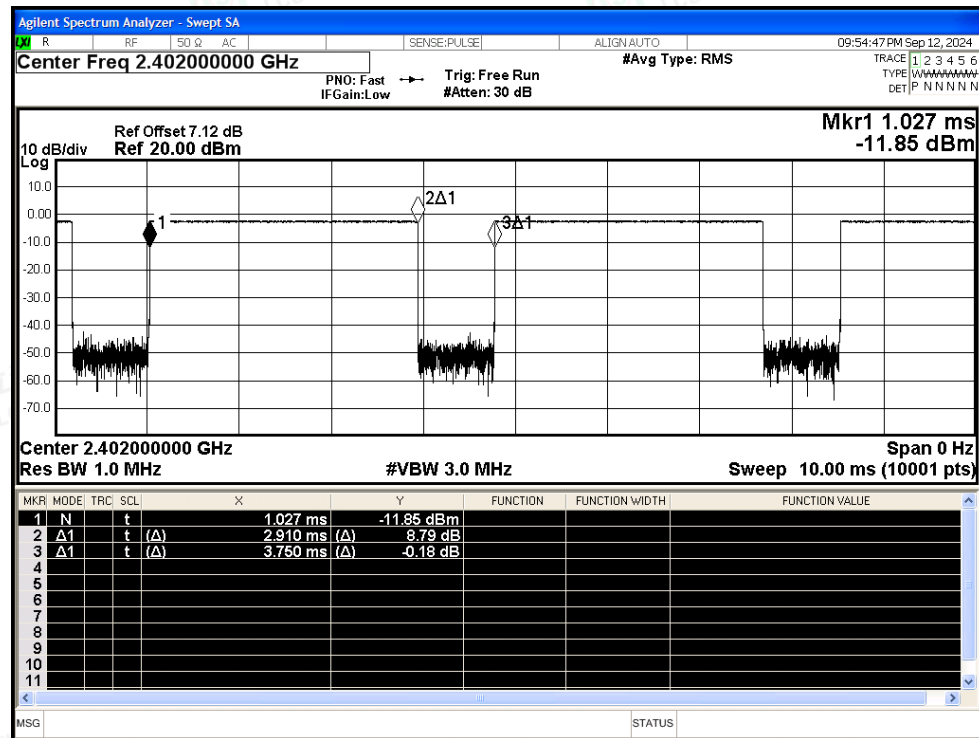
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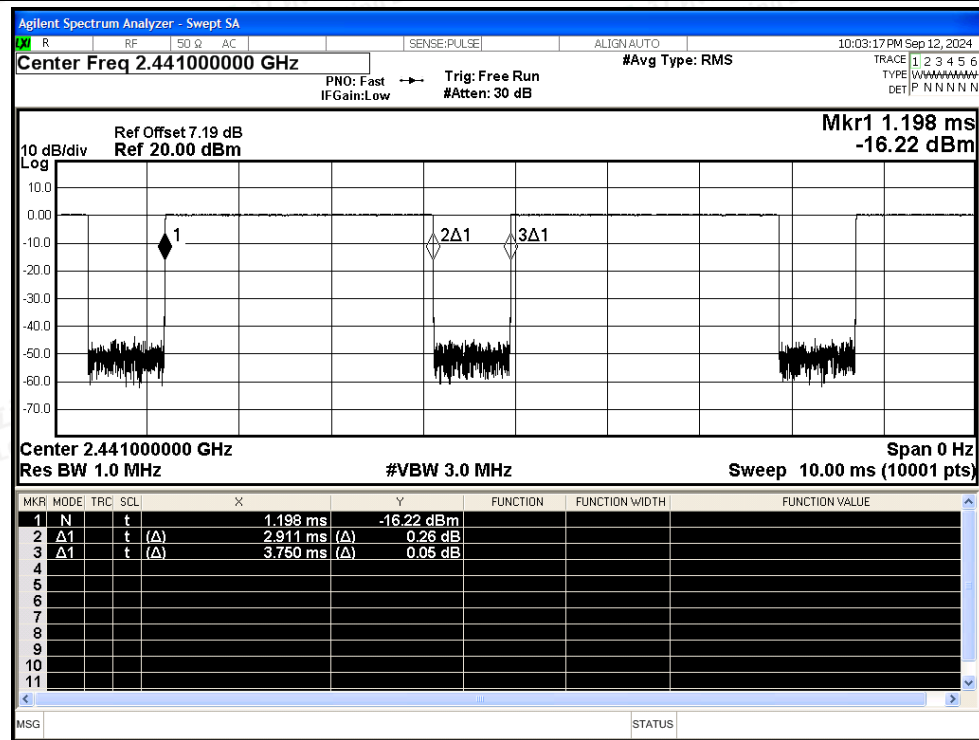


## Test Graphs

## Duty Cycle NVNT 1-DH5 2402MHz Ant1



## Duty Cycle NVNT 1-DH5 2441MHz Ant1



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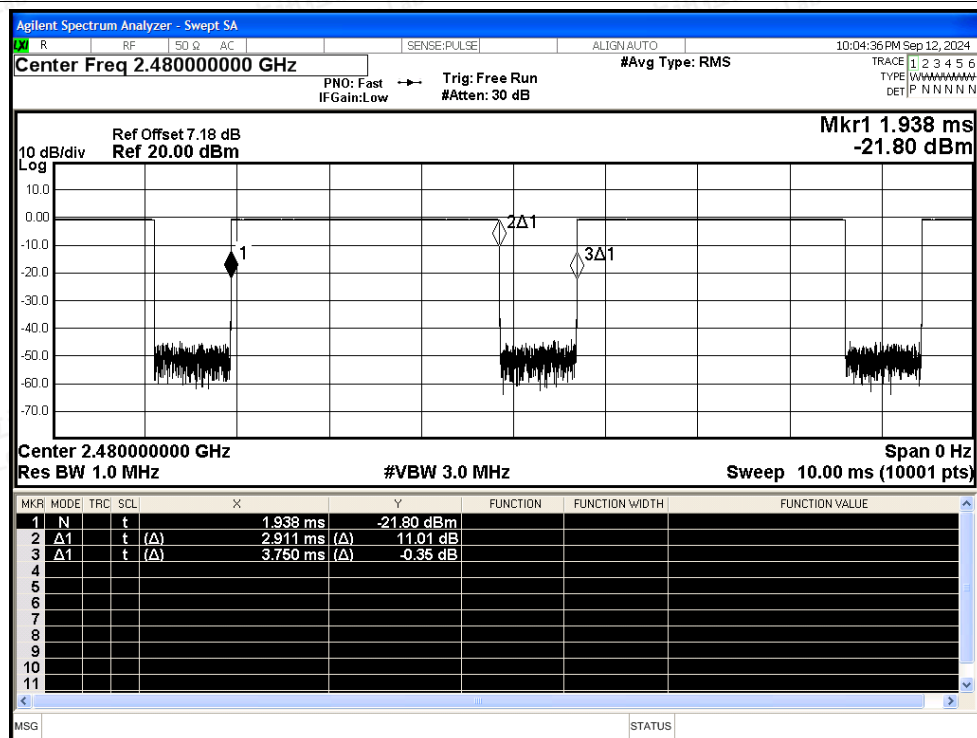
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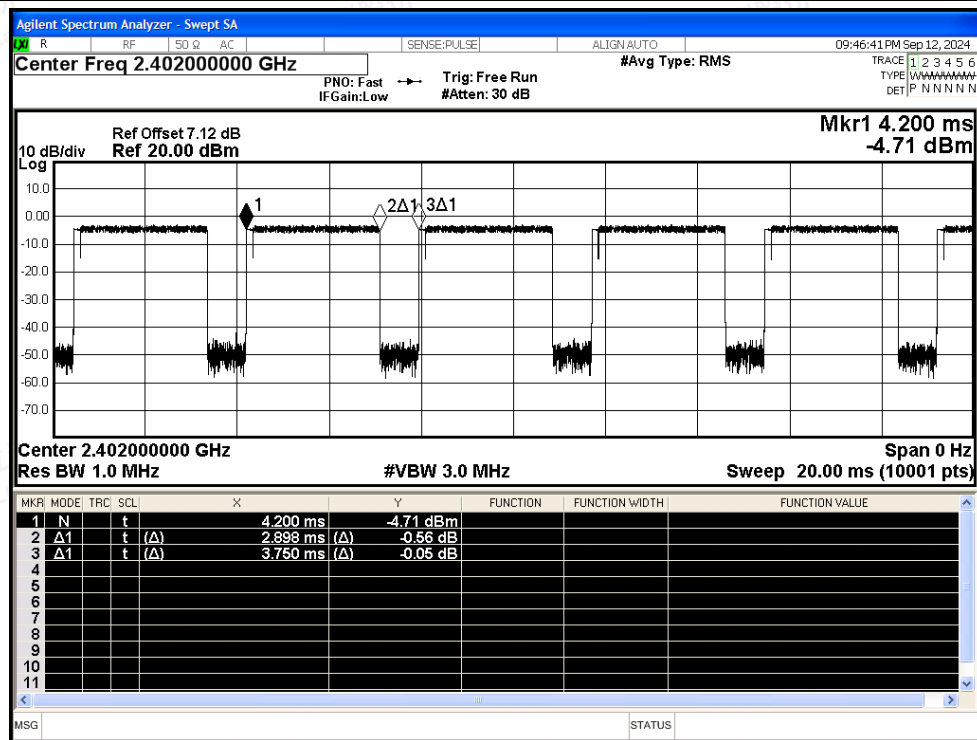
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## Duty Cycle NVNT 1-DH5 2480MHz Ant1



## Duty Cycle NVNT 2-DH5 2402MHz Ant1



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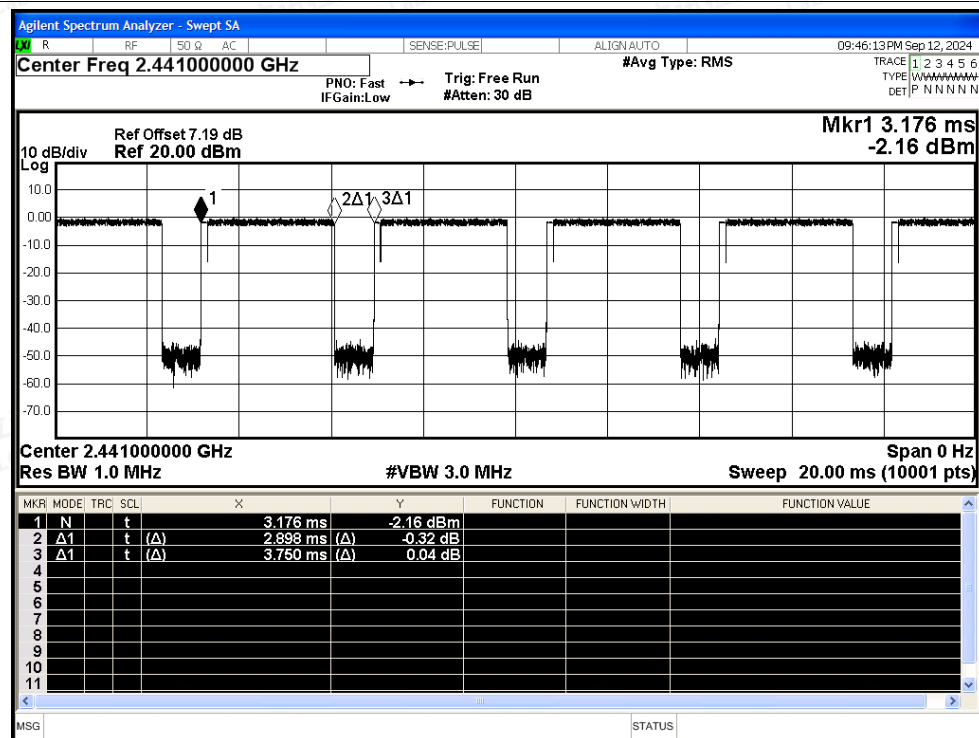
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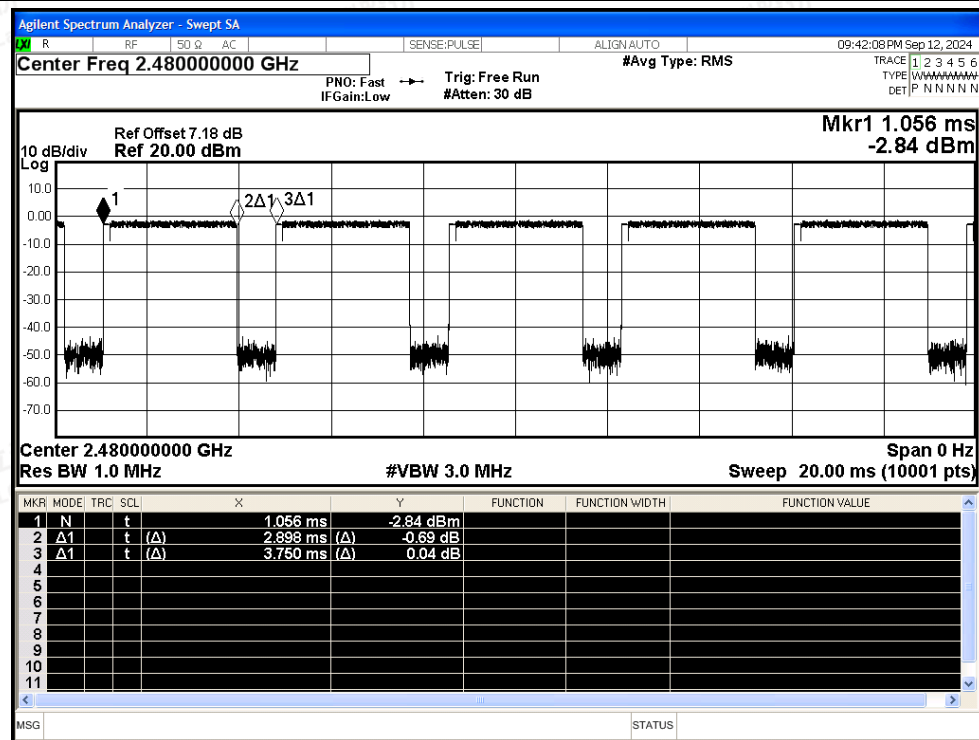
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## Duty Cycle NVNT 2-DH5 2441MHz Ant1



## Duty Cycle NVNT 2-DH5 2480MHz Ant1



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## 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            | Ant1    | No-Hopping   | 2310            | -45.8       | 2.00       | -                | 51.46      | Peak     | 74             | Pass    |
| NVNT      | 1-DH5 | 2402            | Ant1    | No-Hopping   | 2310            | -53.76      | 2.00       | 1.1              | 44.60      | Average  | 54             | Pass    |
| NVNT      | 1-DH5 | 2402            | Ant1    | No-Hopping   | 2347.248        | -42         | 2.00       | -                | 55.26      | Peak     | 74             | Pass    |
| NVNT      | 1-DH5 | 2402            | Ant1    | No-Hopping   | 2365.2          | -52.54      | 2.00       | 1.1              | 45.82      | Average  | 54             | Pass    |
| NVNT      | 1-DH5 | 2402            | Ant1    | No-Hopping   | 2390            | -45.99      | 2.00       | -                | 51.27      | Peak     | 74             | Pass    |
| NVNT      | 1-DH5 | 2402            | Ant1    | No-Hopping   | 2390            | -53.53      | 2.00       | 1.1              | 44.83      | Average  | 54             | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | No-Hopping   | 2483.5          | -44.81      | 2.00       | -                | 52.45      | Peak     | 74             | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | No-Hopping   | 2483.5          | -52.89      | 2.00       | 1.1              | 45.47      | Average  | 54             | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | No-Hopping   | 2495.872        | -42.01      | 2.00       | -                | 55.25      | Peak     | 74             | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | No-Hopping   | 2491.648        | -52.01      | 2.00       | 1.1              | 46.35      | Average  | 54             | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | No-Hopping   | 2500            | -44.47      | 2.00       | -                | 52.79      | Peak     | 74             | Pass    |
| NVNT      | 1-DH5 | 2480            | Ant1    | No-Hopping   | 2500            | -53.47      | 2.00       | 1.1              | 44.89      | Average  | 54             | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | No-Hopping   | 2310            | -45.78      | 2.00       | -                | 51.48      | Peak     | 74             | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | No-Hopping   | 2310            | -53.83      | 2.00       | 1.12             | 44.55      | Average  | 54             | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | No-Hopping   | 2364.048        | -42.05      | 2.00       | -                | 55.21      | Peak     | 74             | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | No-Hopping   | 2387.856        | -52.72      | 2.00       | 1.12             | 45.66      | Average  | 54             | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | No-Hopping   | 2390            | -44.44      | 2.00       | -                | 52.82      | Peak     | 74             | Pass    |
| NVNT      | 2-DH5 | 2402            | Ant1    | No-Hopping   | 2390            | -52.93      | 2.00       | 1.12             | 45.45      | Average  | 54             | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | No-Hopping   | 2483.5          | -45.42      | 2.00       | -                | 51.84      | Peak     | 74             | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | No-Hopping   | 2483.5          | -52.91      | 2.00       | 1.12             | 45.47      | Average  | 54             | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | No-Hopping   | 2488.48         | -42.02      | 2.00       | -                | 55.24      | Peak     | 74             | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | No-Hopping   | 2496.712        | -52.12      | 2.00       | 1.12             | 46.26      | Average  | 54             | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | No-Hopping   | 2500            | -44.3       | 2.00       | -                | 52.96      | Peak     | 74             | Pass    |
| NVNT      | 2-DH5 | 2480            | Ant1    | No-Hopping   | 2500            | -52.81      | 2.00       | 1.12             | 45.57      | Average  | 54             | Pass    |



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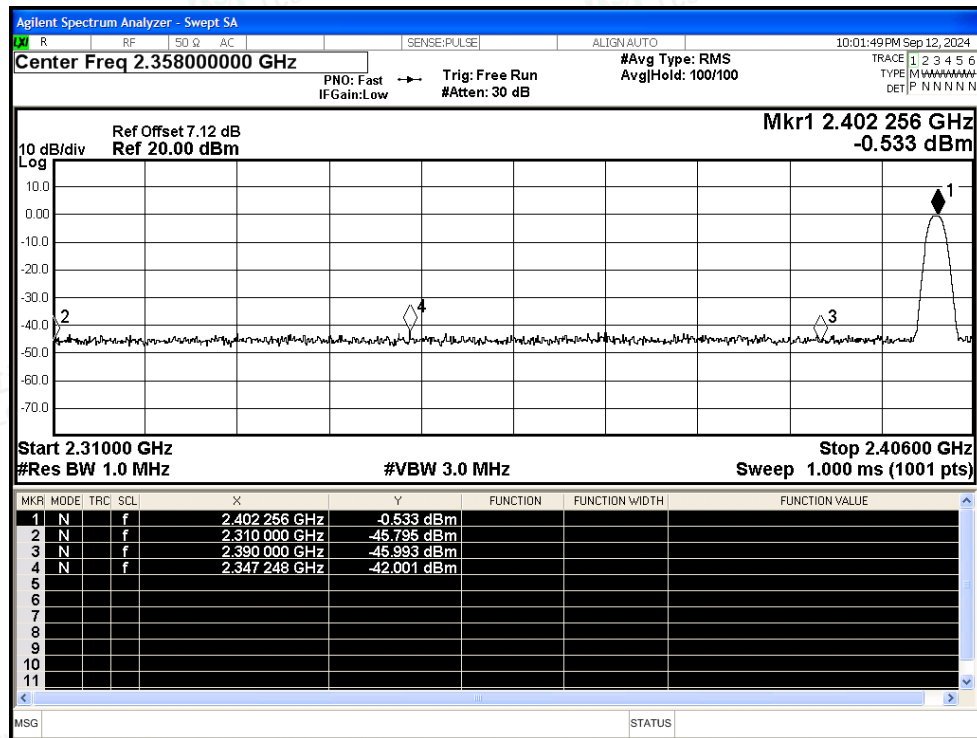
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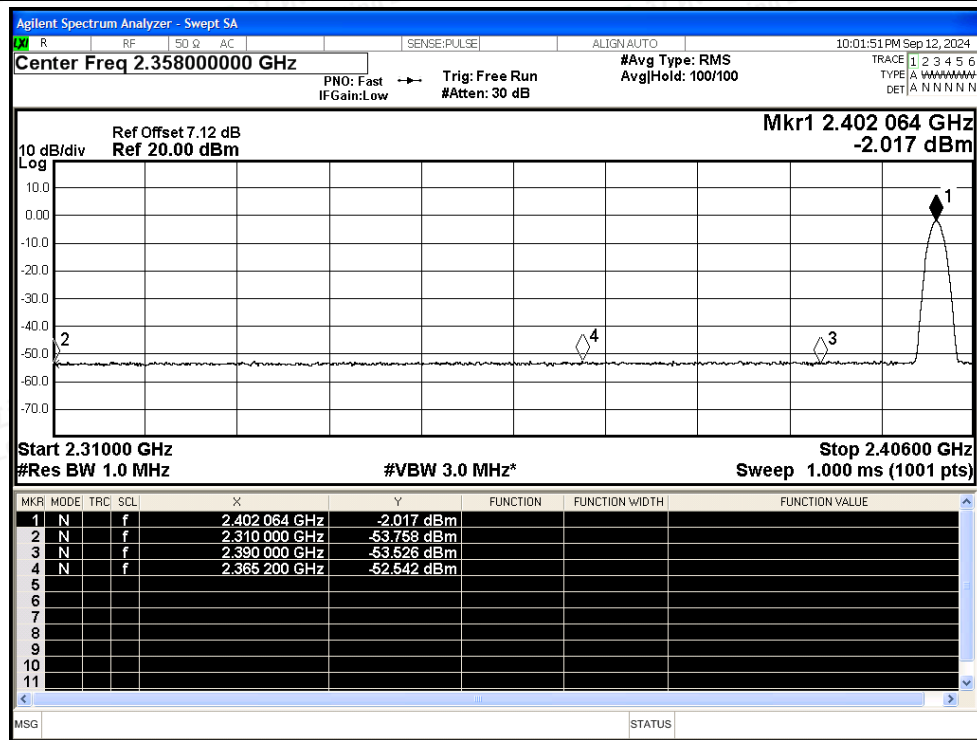


## Test Graphs

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



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



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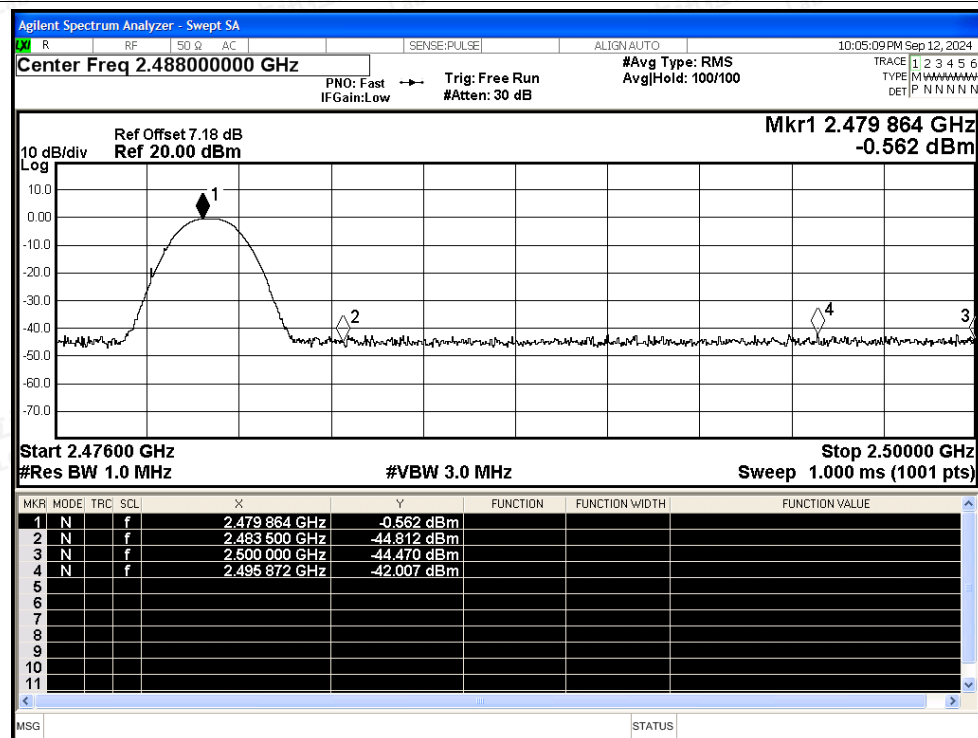
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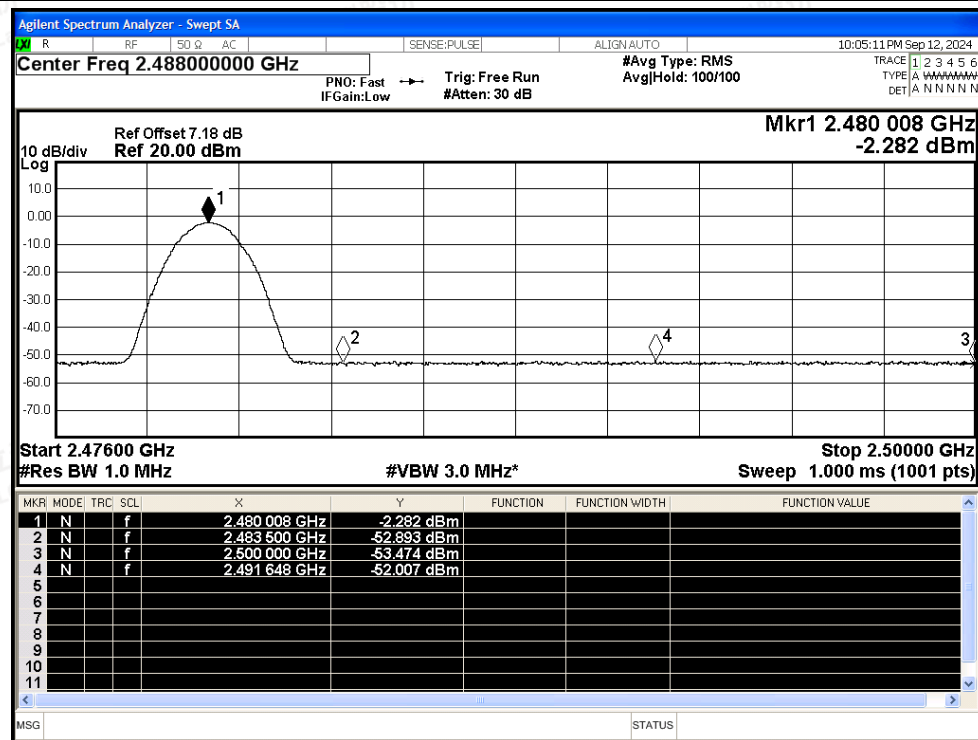




## Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



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



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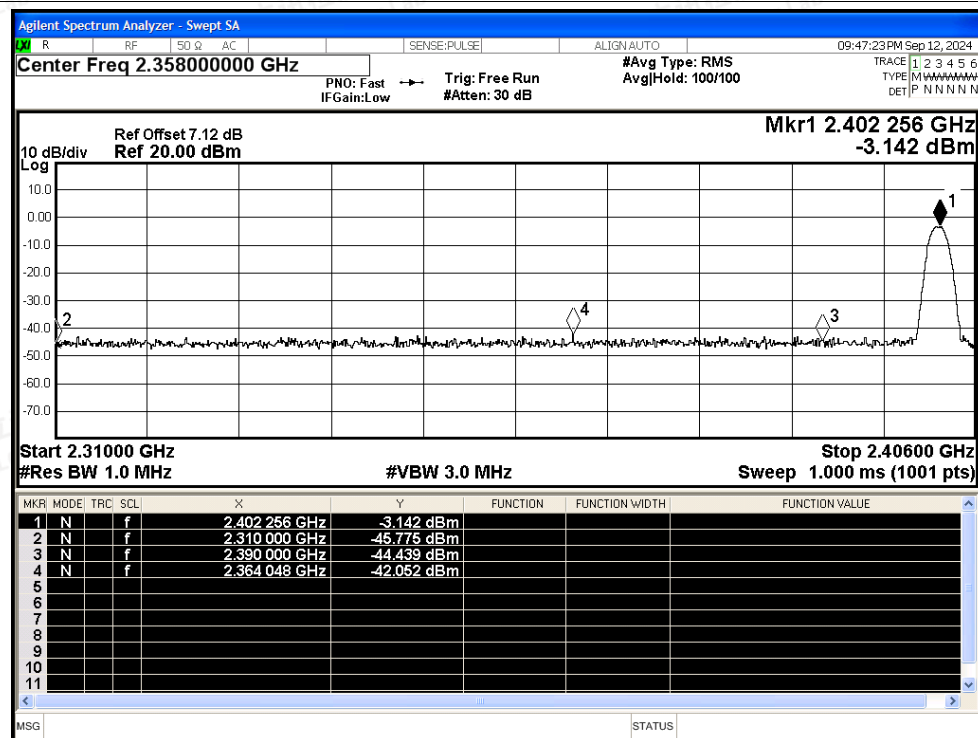
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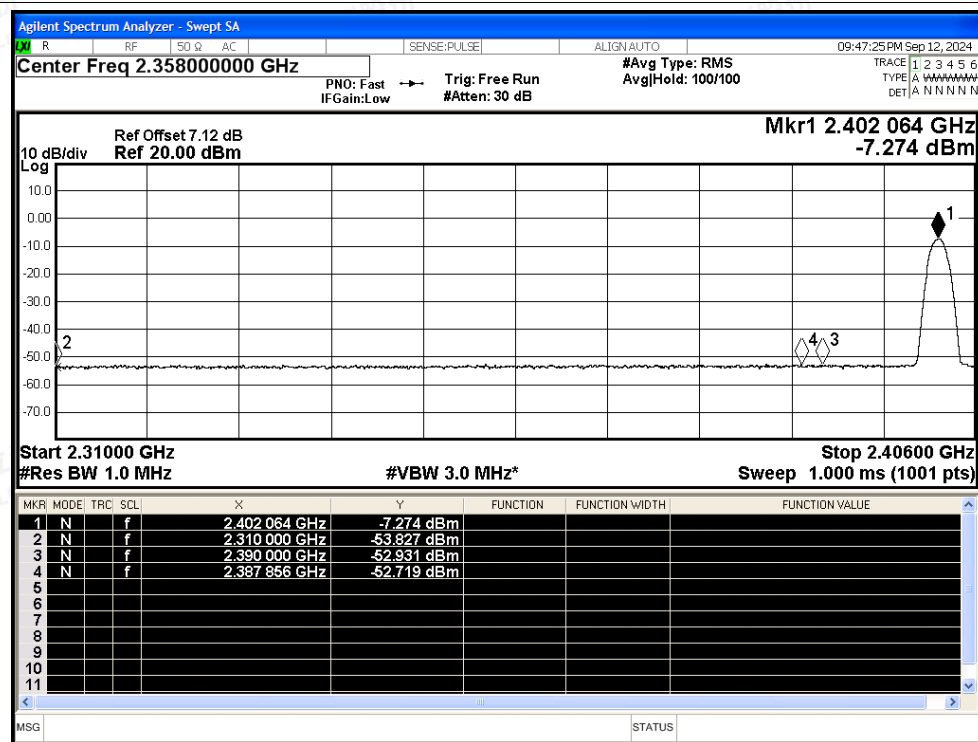




## Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak



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



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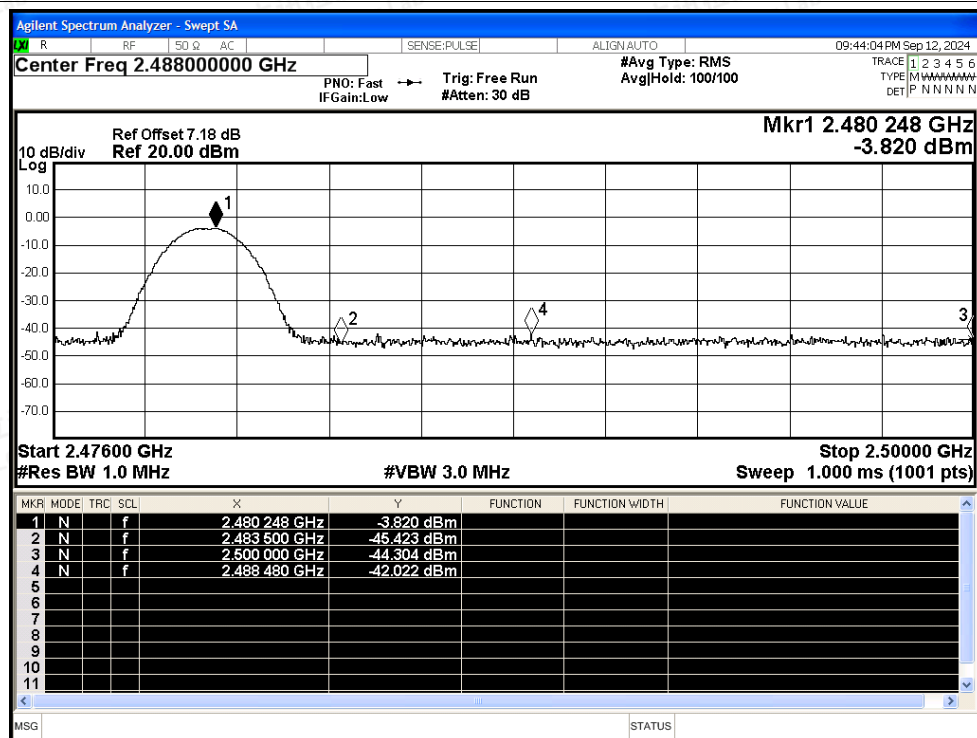
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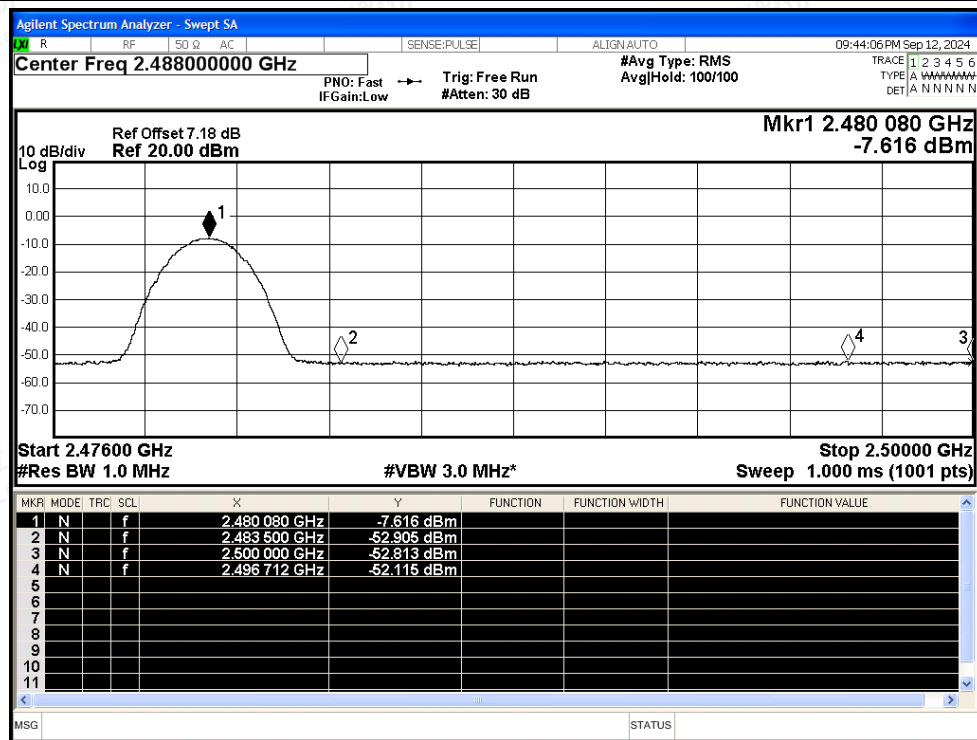
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## Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



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



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