



## Appendix A

### RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Smart Camera

Test Model: S0613D

#### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 23.1° C   |
| Relative Humidity: | 52.3%     |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Andre Tan |
| Supervised by:     | Nick Peng |



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## A.1 -6dB Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | b    | 2412            | Ant1    | 8.111                 | $\geq 0.5$                  | Pass    |
| NVNT      | b    | 2437            | Ant1    | 8.107                 | $\geq 0.5$                  | Pass    |
| NVNT      | b    | 2462            | Ant1    | 8.556                 | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2412            | Ant1    | 16.315                | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2437            | Ant1    | 16.345                | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2462            | Ant1    | 16.326                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 16.844                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 17.539                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 17.553                | $\geq 0.5$                  | Pass    |



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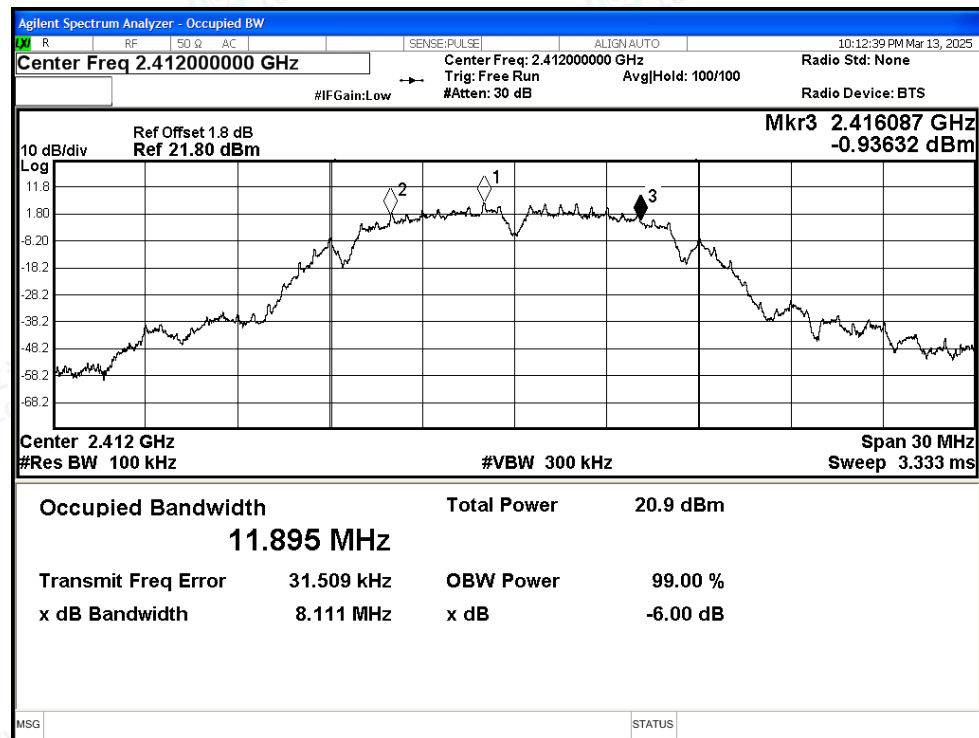
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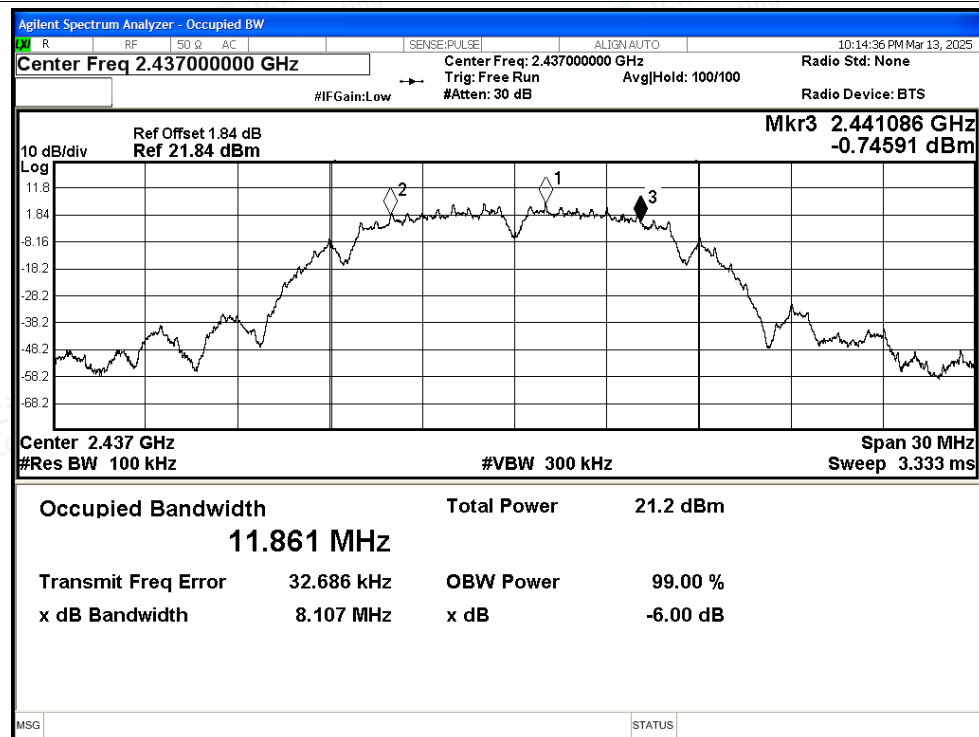


## Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1



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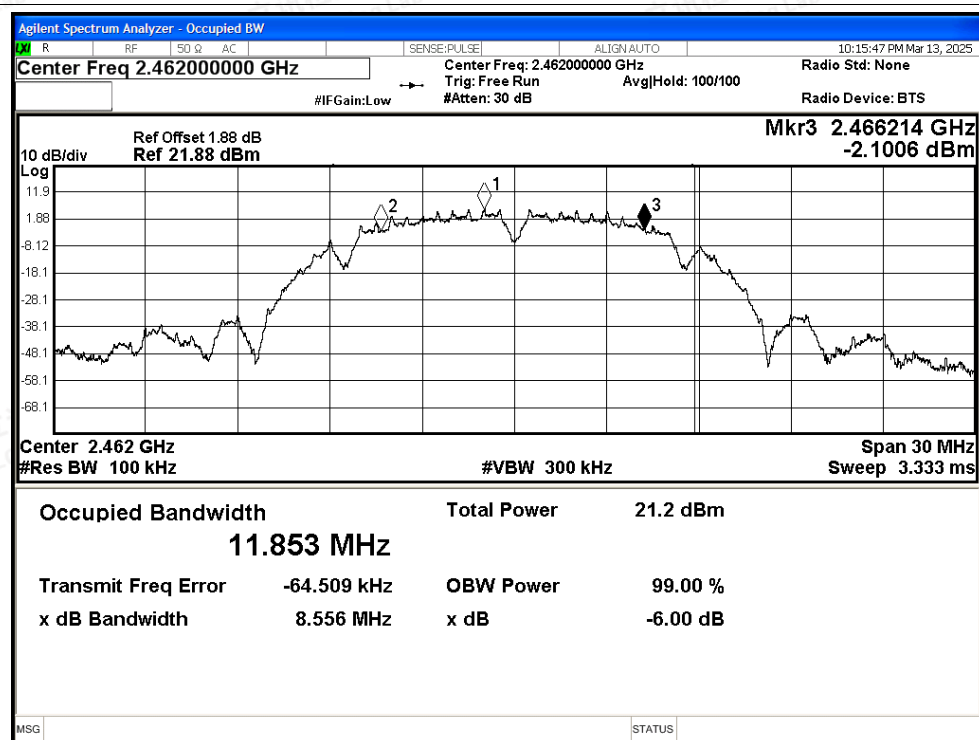
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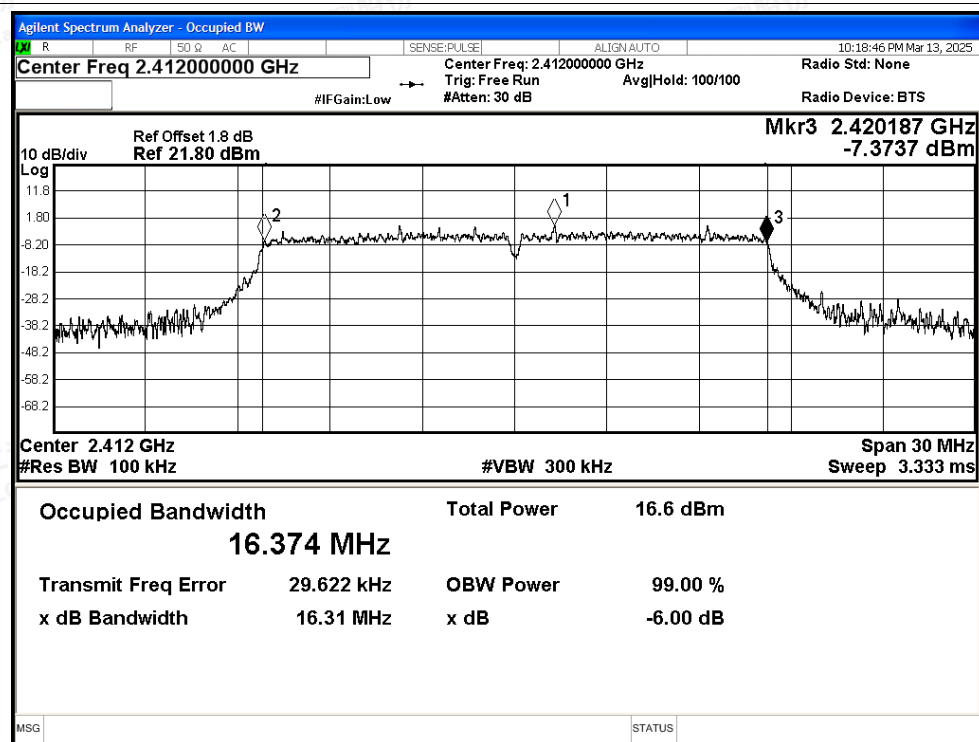
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## -6dB Bandwidth NVNT b 2462MHz Ant1



## -6dB Bandwidth NVNT g 2412MHz Ant1



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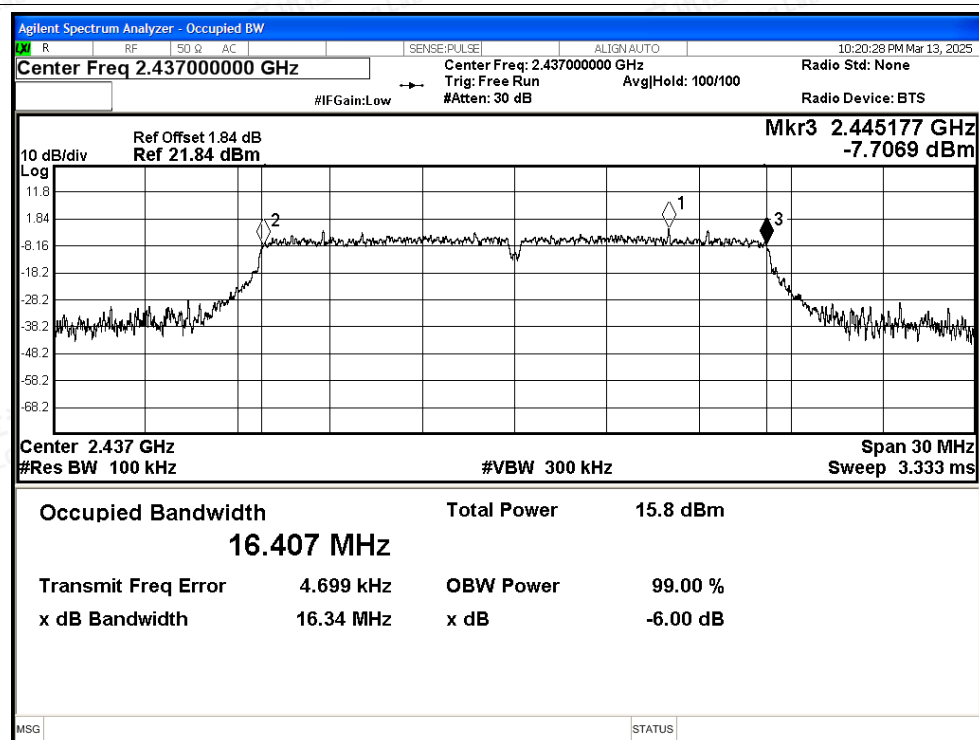
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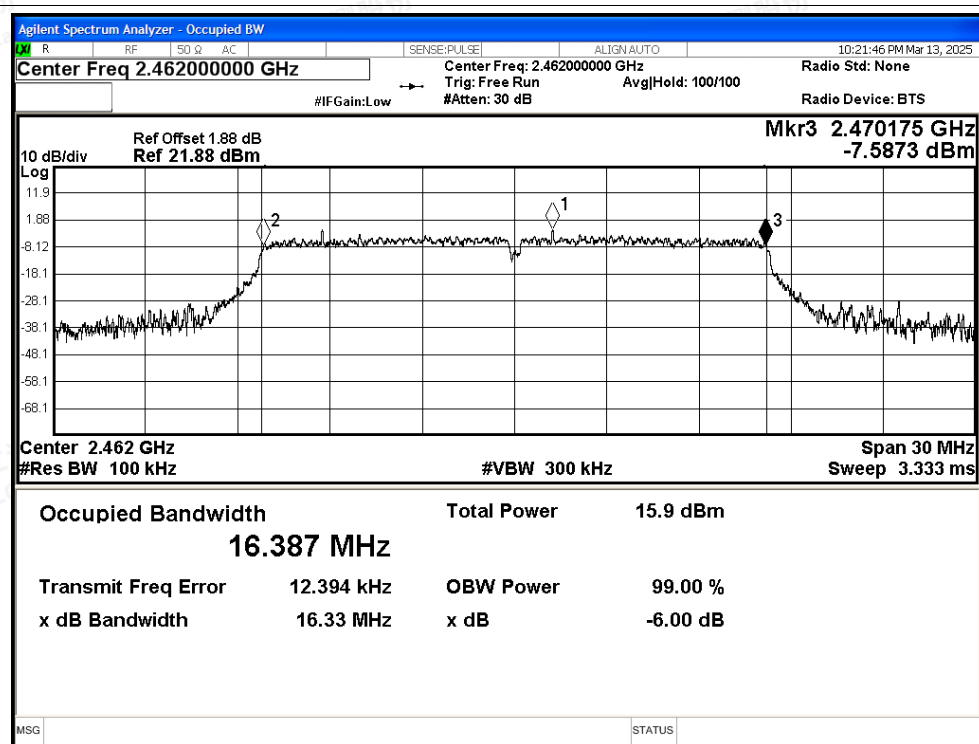
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-6dB Bandwidth NVNT g 2437MHz Ant1



-6dB Bandwidth NVNT g 2462MHz Ant1



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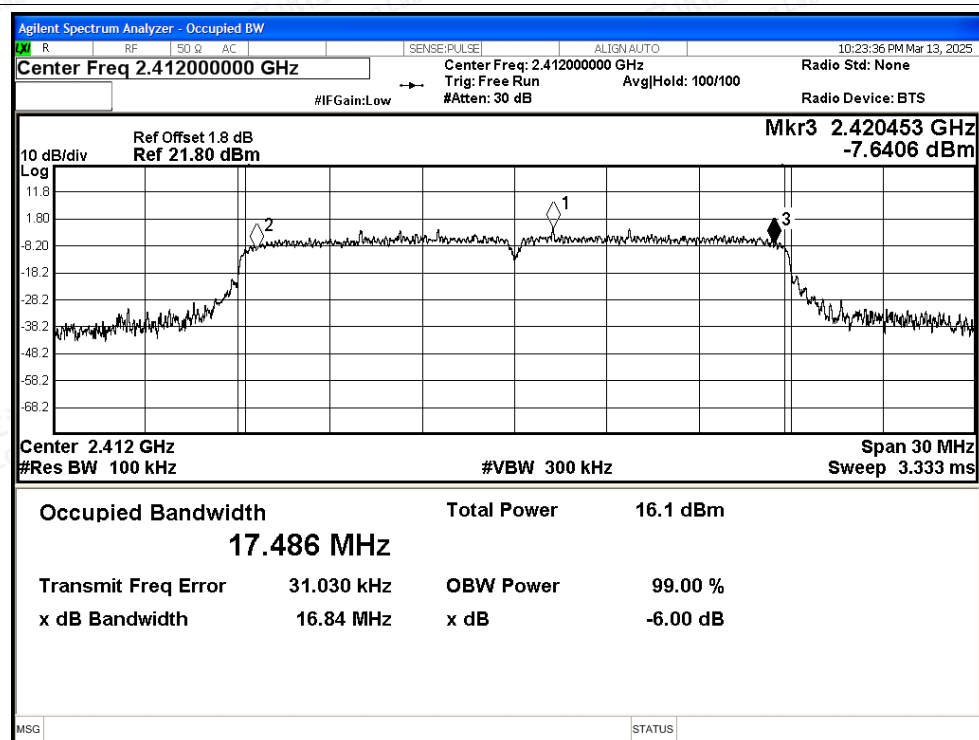
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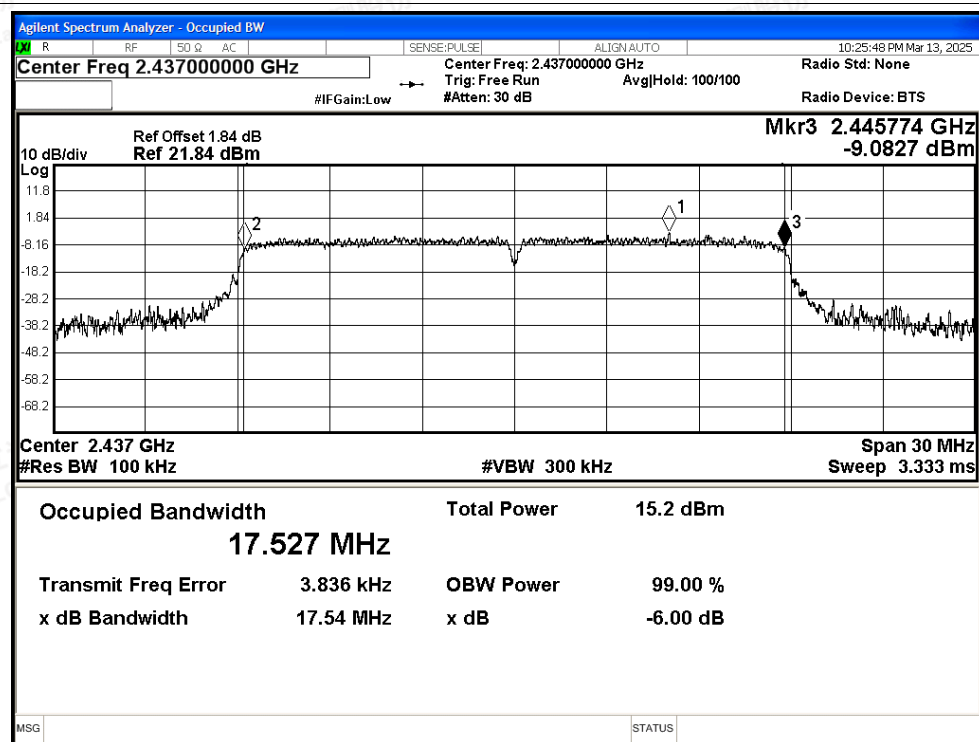
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-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1

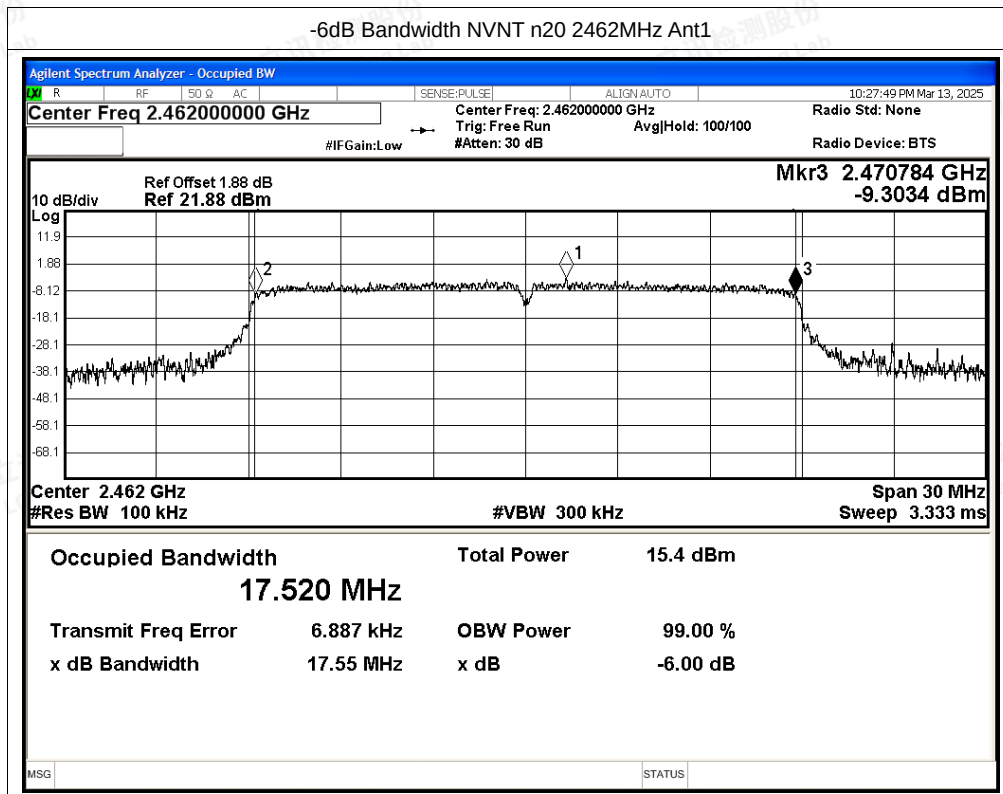


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## A.2 Maximum Peak Conducted Output Power

| Condition | Mode | Frequency (MHz) | Antenna | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-------------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | 15.88             | 30          | Pass    |
| NVNT      | b    | 2437            | Ant1    | 16.17             | 30          | Pass    |
| NVNT      | b    | 2462            | Ant1    | 16.18             | 30          | Pass    |
| NVNT      | g    | 2412            | Ant1    | 15.33             | 30          | Pass    |
| NVNT      | g    | 2437            | Ant1    | 14.64             | 30          | Pass    |
| NVNT      | g    | 2462            | Ant1    | 14.75             | 30          | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 14.66             | 30          | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 15.10             | 30          | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 14.06             | 30          | Pass    |



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### A.3 Maximum Power Spectral Density Level

| Condition | Mode | Frequency<br>(MHz) | Antenna | Total PSD<br>(dBm/3kHz) | Limit<br>(dBm/3kHz) | Verdict |
|-----------|------|--------------------|---------|-------------------------|---------------------|---------|
| NVNT      | b    | 2412               | Ant1    | -7.78                   | 8                   | Pass    |
| NVNT      | b    | 2437               | Ant1    | -5.74                   | 8                   | Pass    |
| NVNT      | b    | 2462               | Ant1    | -7.88                   | 8                   | Pass    |
| NVNT      | g    | 2412               | Ant1    | -15.87                  | 8                   | Pass    |
| NVNT      | g    | 2437               | Ant1    | -16.05                  | 8                   | Pass    |
| NVNT      | g    | 2462               | Ant1    | -15.6                   | 8                   | Pass    |
| NVNT      | n20  | 2412               | Ant1    | -15.72                  | 8                   | Pass    |
| NVNT      | n20  | 2437               | Ant1    | -17.07                  | 8                   | Pass    |
| NVNT      | n20  | 2462               | Ant1    | -15.37                  | 8                   | Pass    |



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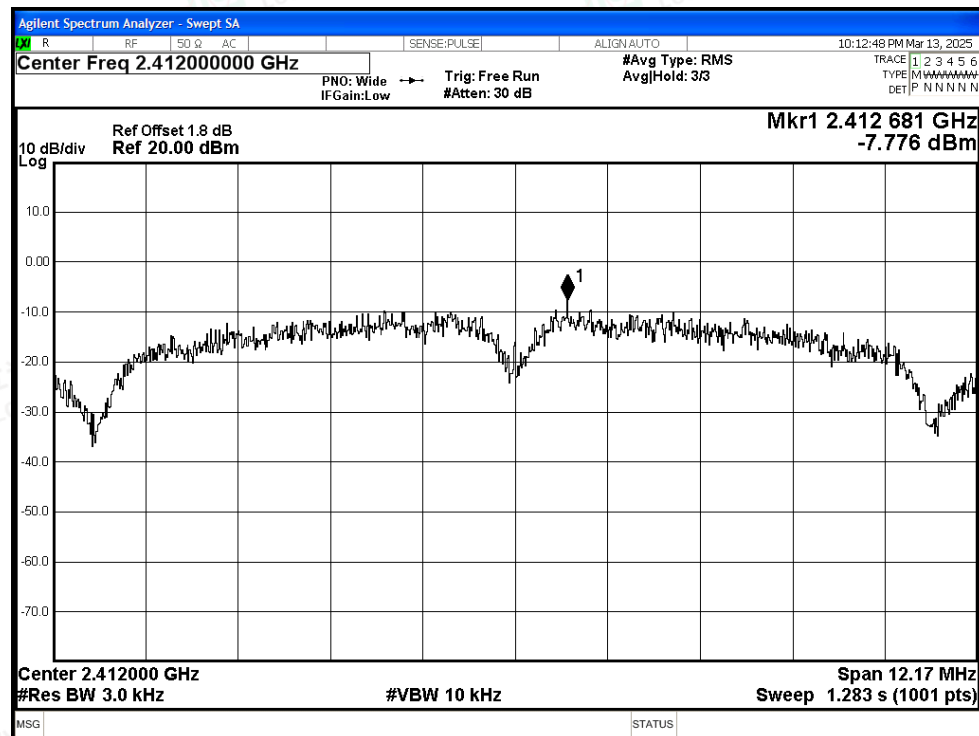
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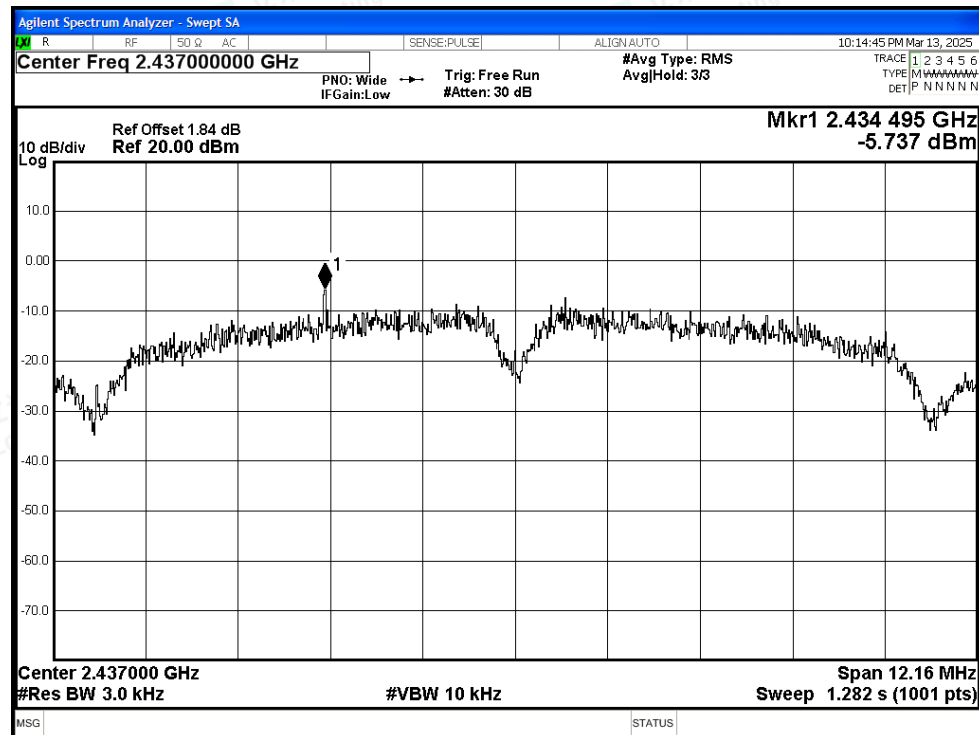


## Test Graphs

PSD NVNT b 2412MHz Ant1



PSD NVNT b 2437MHz Ant1



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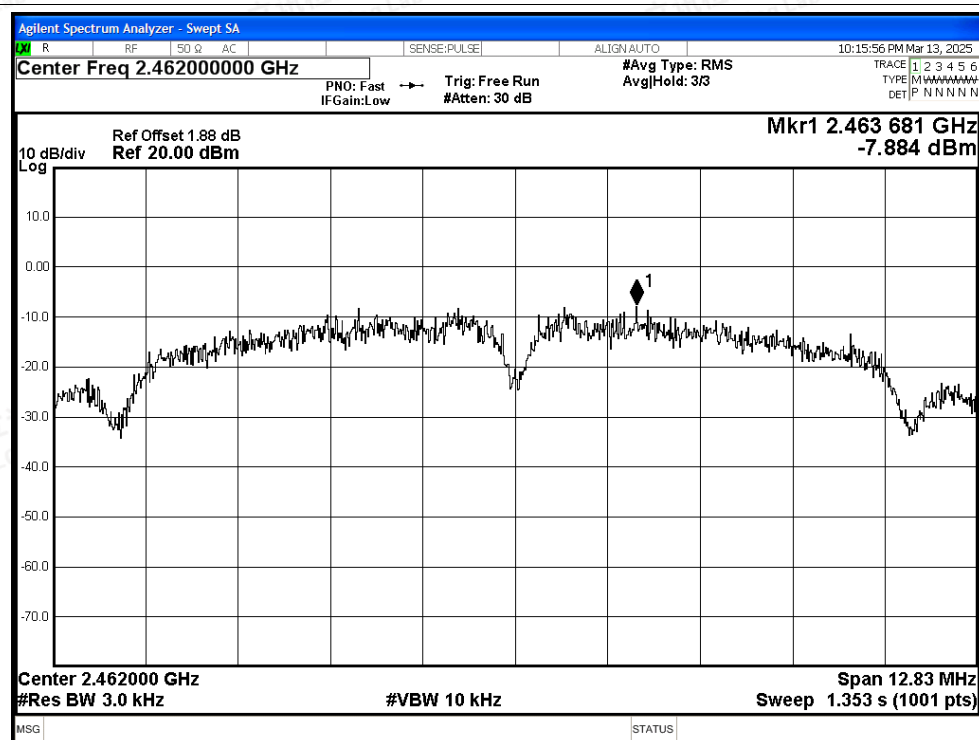
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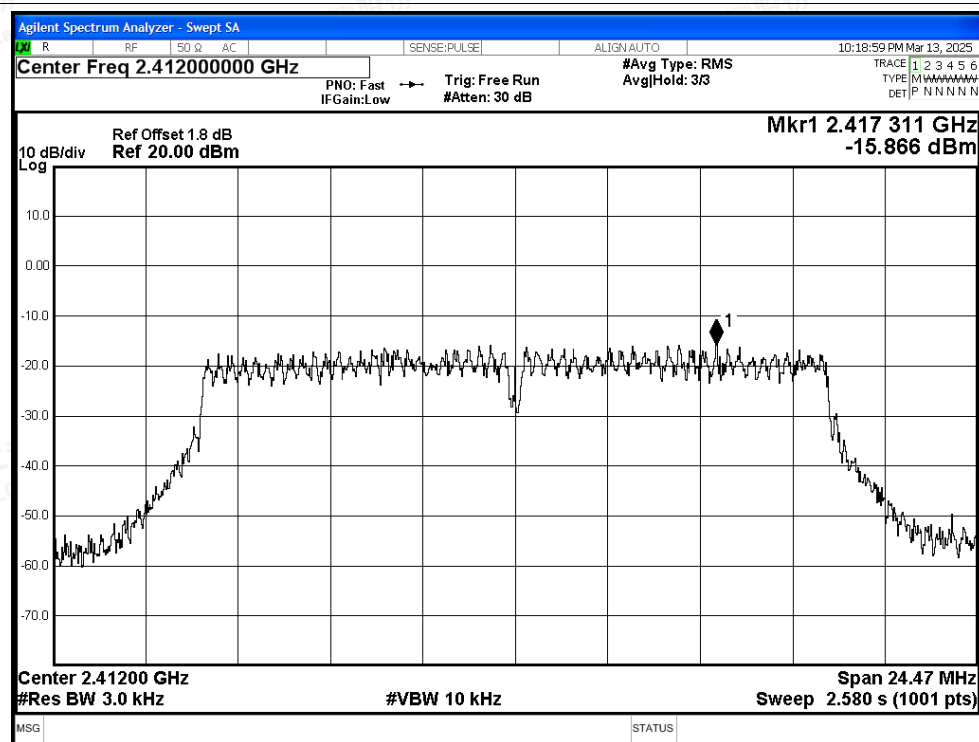
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## PSD NVNT b 2462MHz Ant1



## PSD NVNT g 2412MHz Ant1



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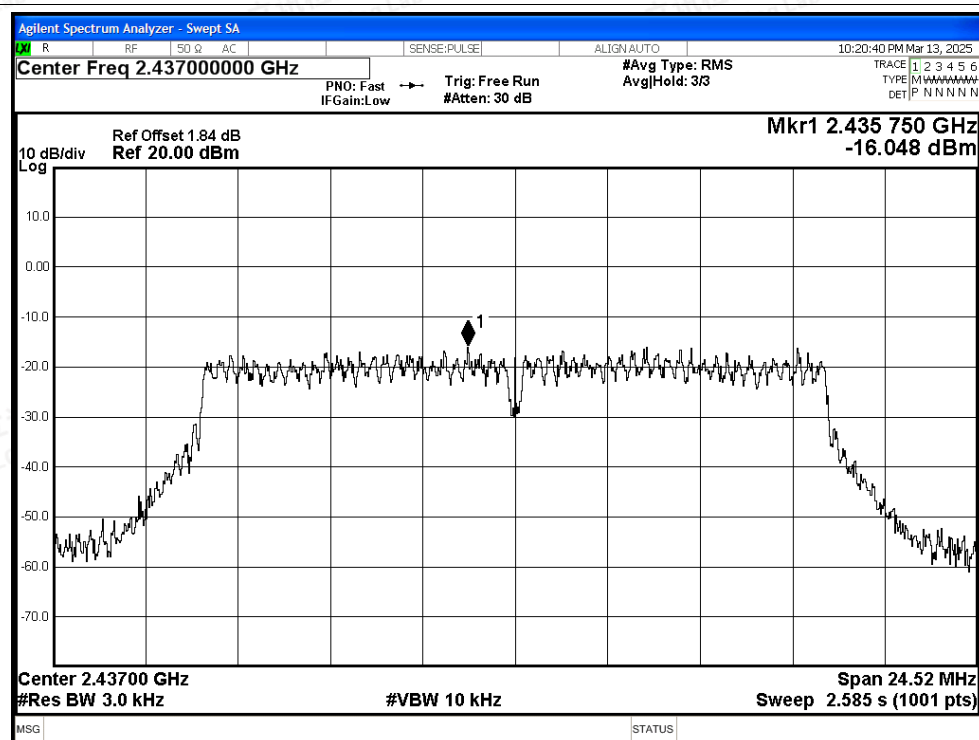
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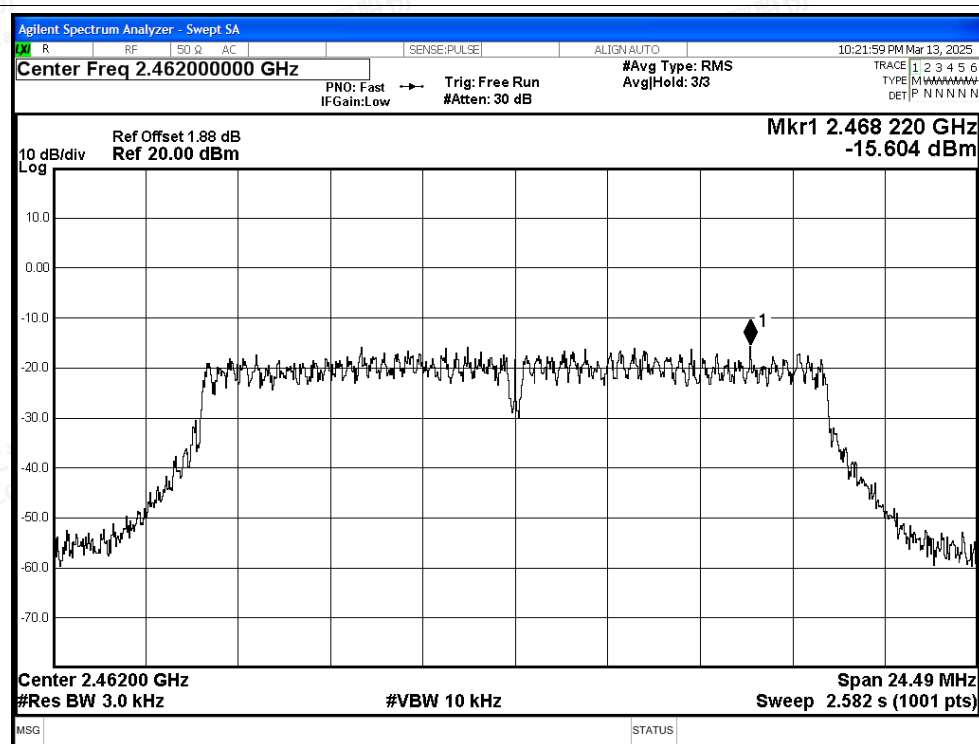
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PSD NVNT g 2437MHz Ant1



PSD NVNT g 2462MHz Ant1

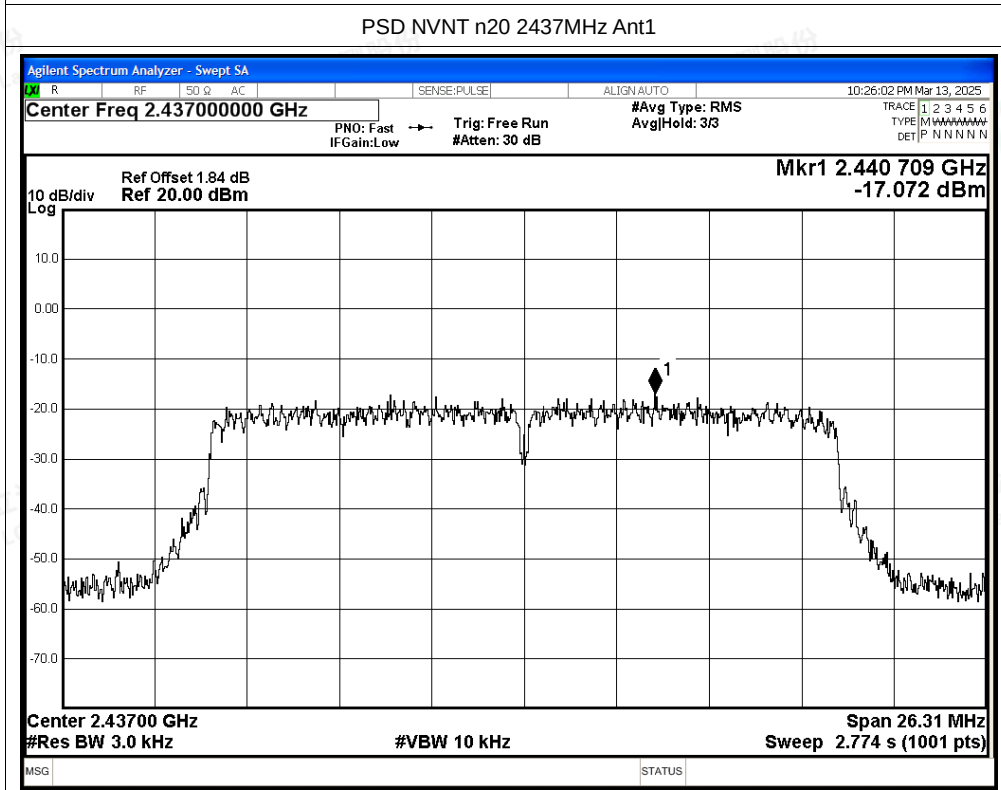
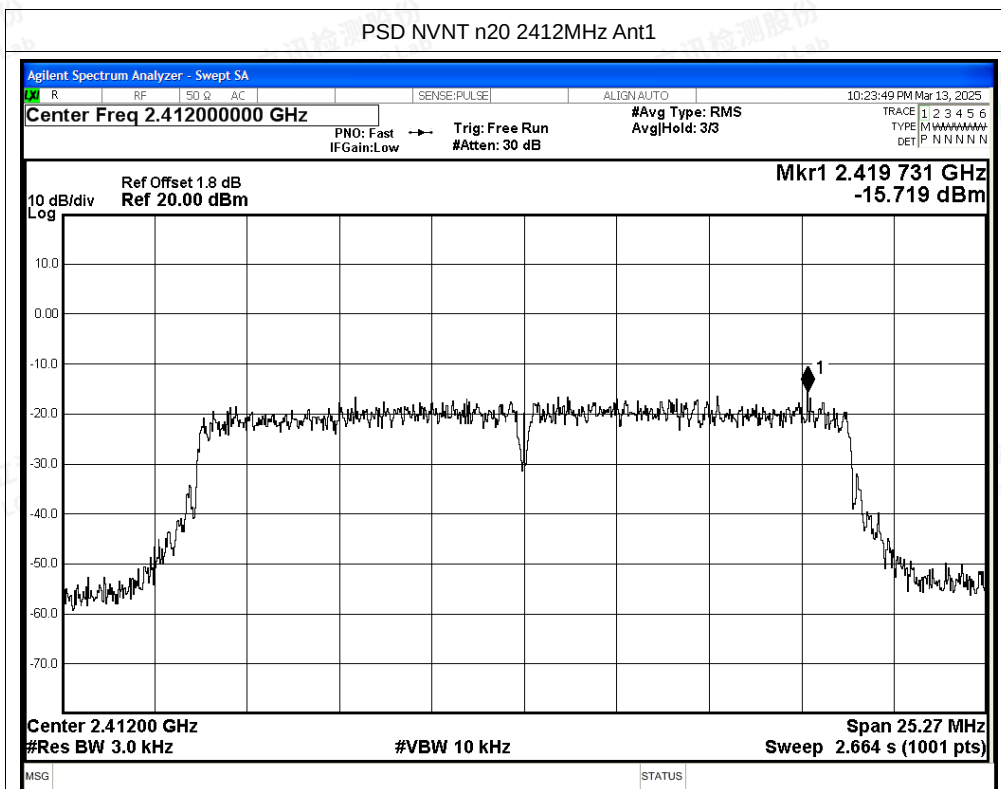


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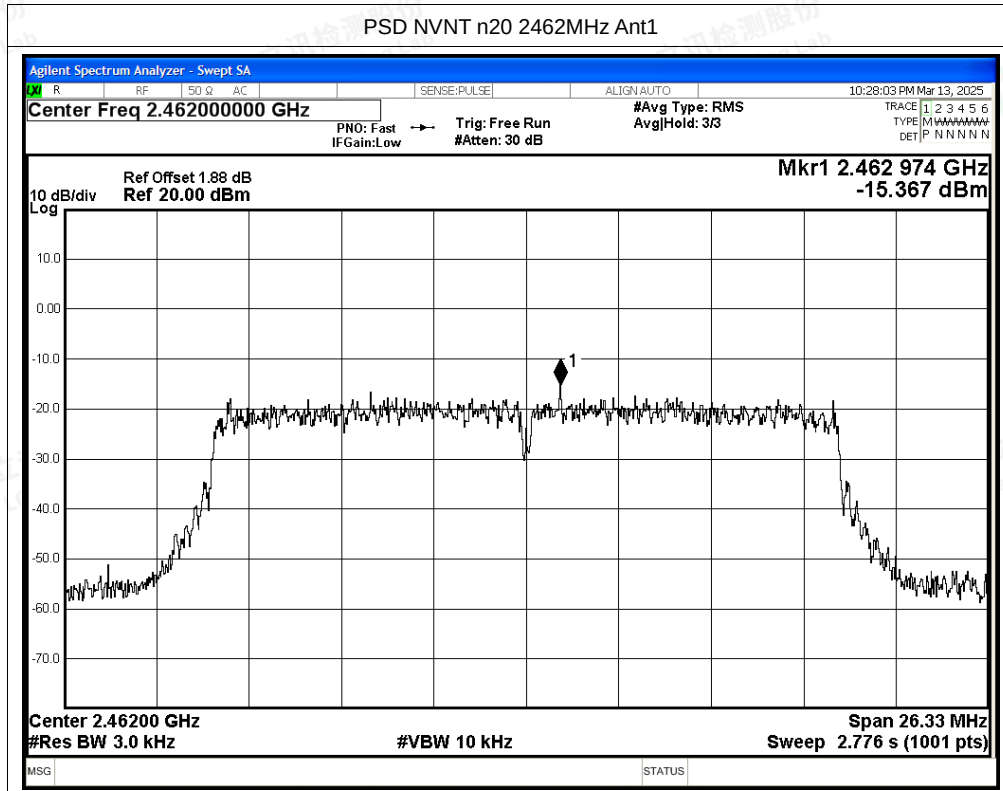


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### A.4 Band Edge

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | -48.07          | -20         | Pass    |
| NVNT      | b    | 2462            | Ant1    | -60.75          | -20         | Pass    |
| NVNT      | g    | 2412            | Ant1    | -33.14          | -20         | Pass    |
| NVNT      | g    | 2462            | Ant1    | -41.45          | -20         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -32.67          | -20         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -43.31          | -20         | Pass    |

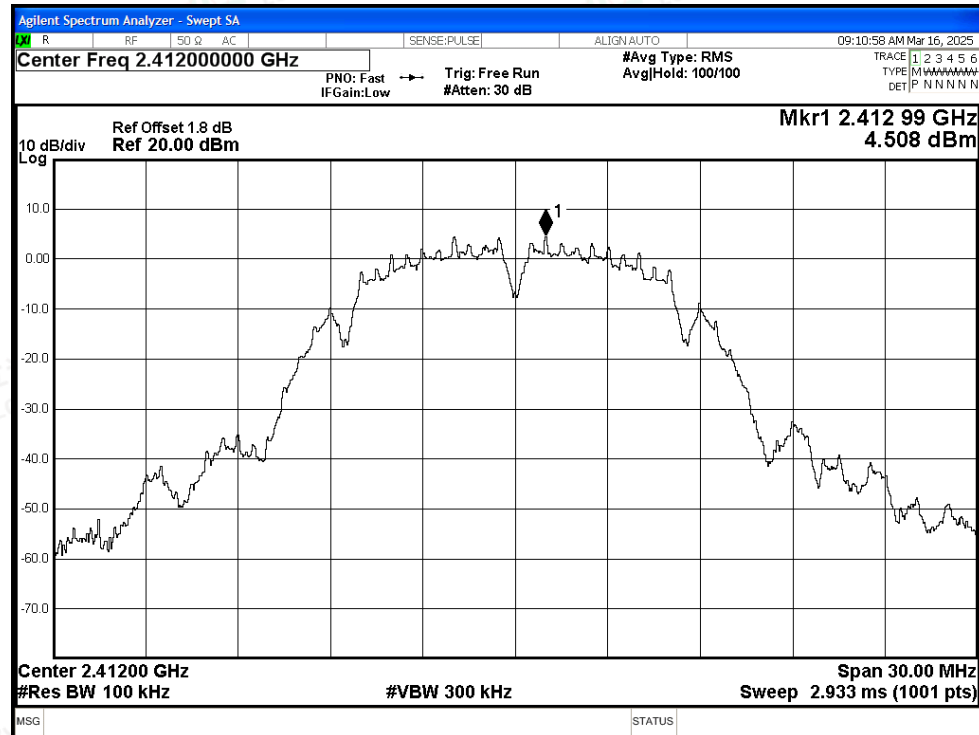


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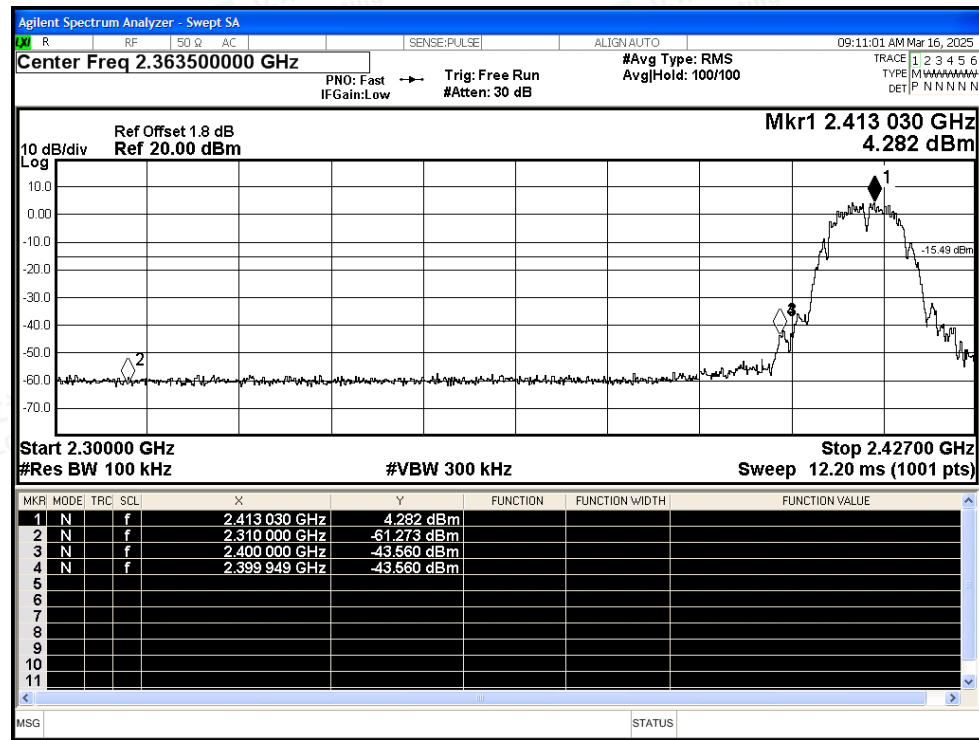


## Test Graphs

## Band Edge NVNT b 2412MHz Ant1 Ref



## Band Edge NVNT b 2412MHz Ant1 Emission



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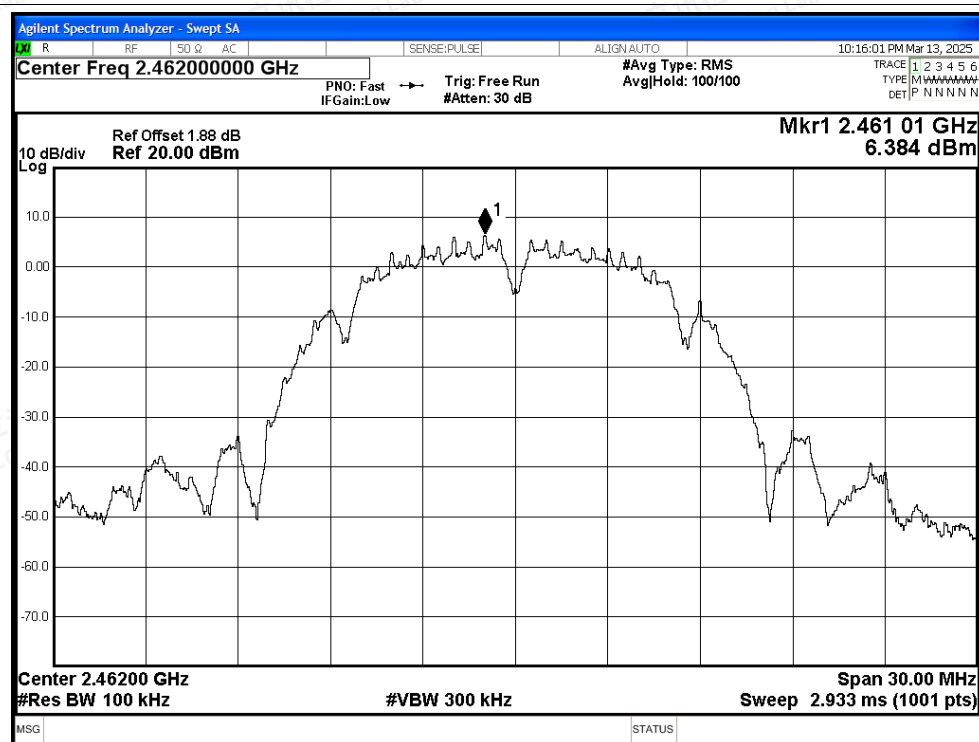
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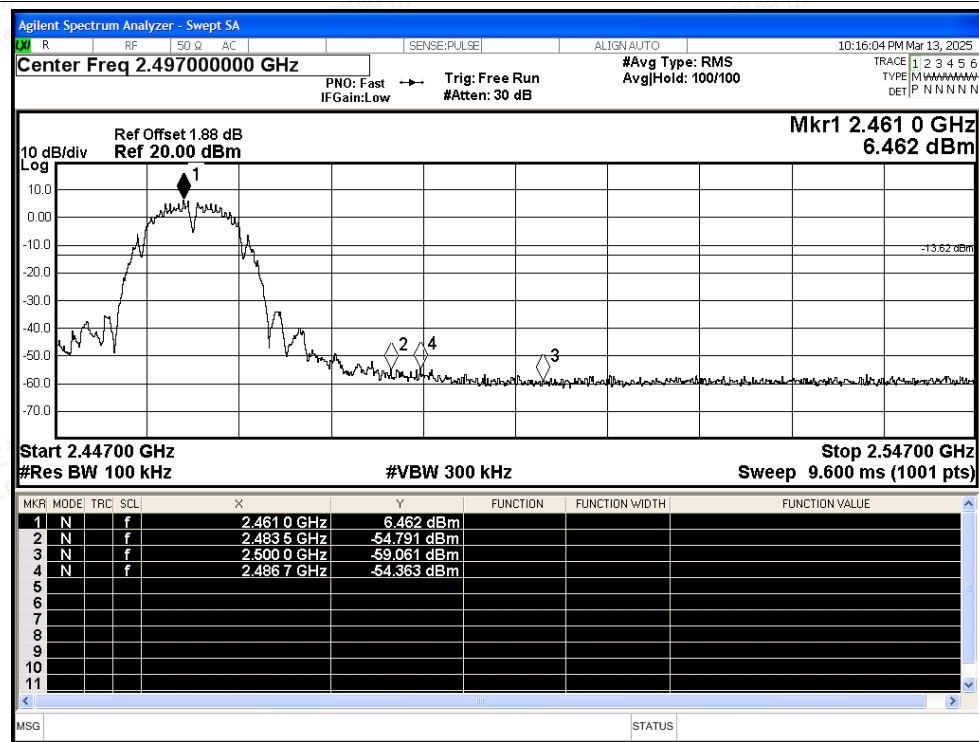




## Band Edge NVNT b 2462MHz Ant1 Ref



## Band Edge NVNT b 2462MHz Ant1 Emission



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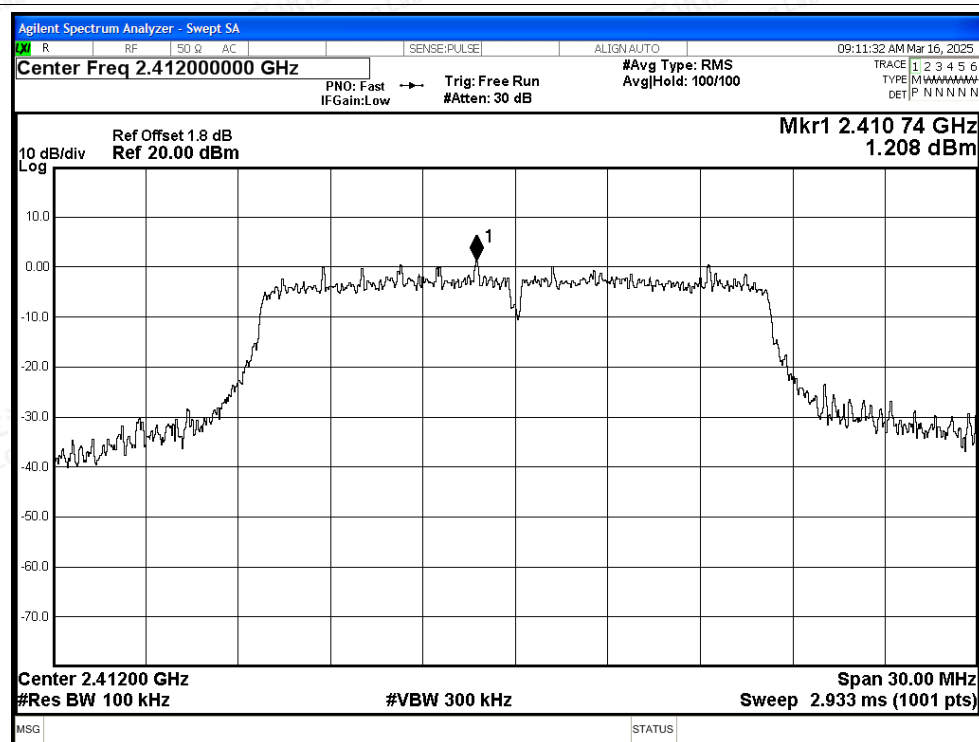
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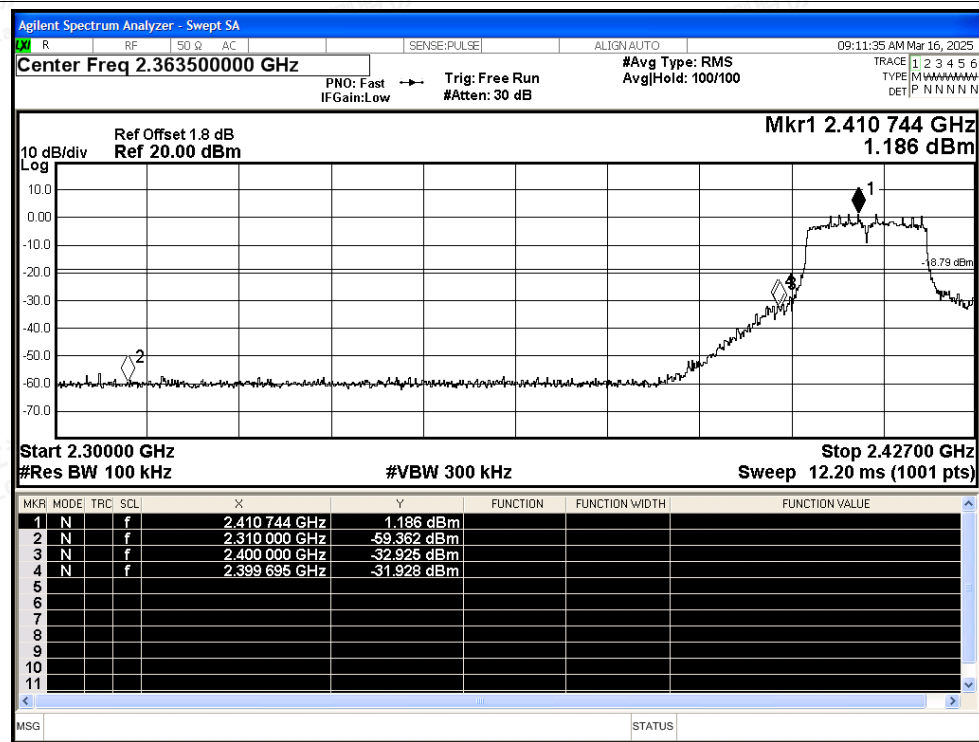
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## Band Edge NVNT g 2412MHz Ant1 Ref



## Band Edge NVNT g 2412MHz Ant1 Emission



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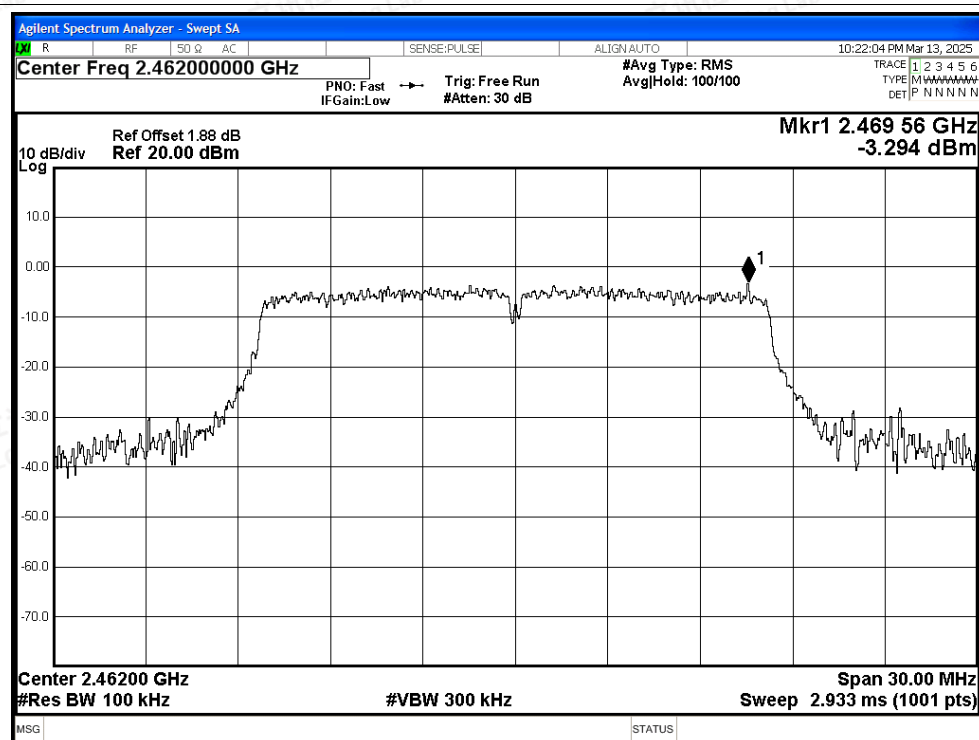
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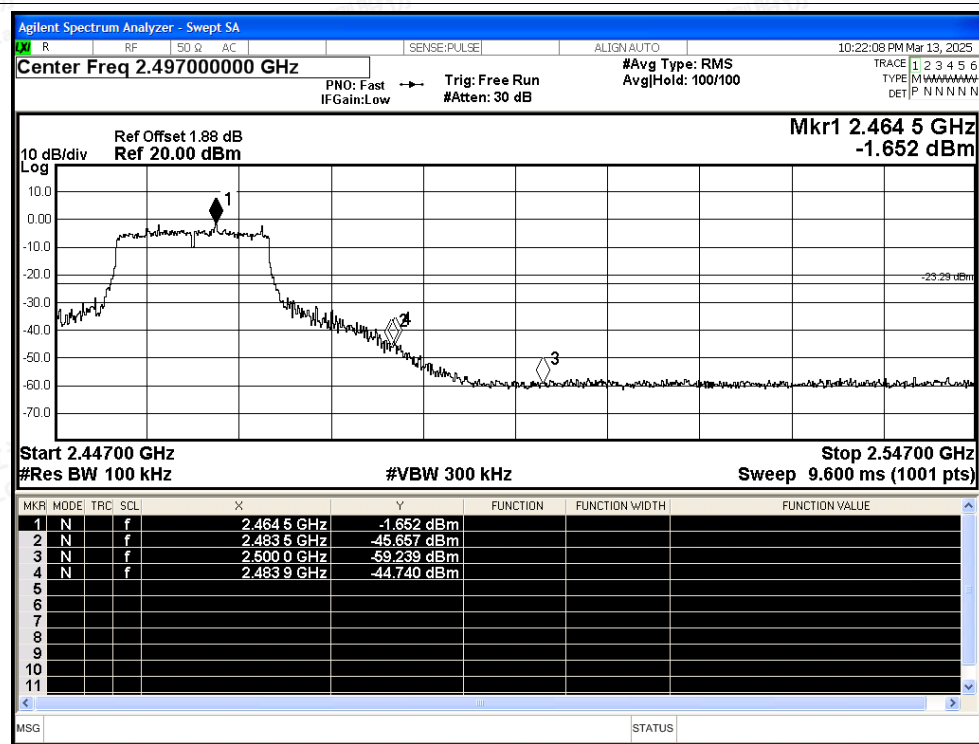
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## Band Edge NVNT g 2462MHz Ant1 Ref



## Band Edge NVNT g 2462MHz Ant1 Emission



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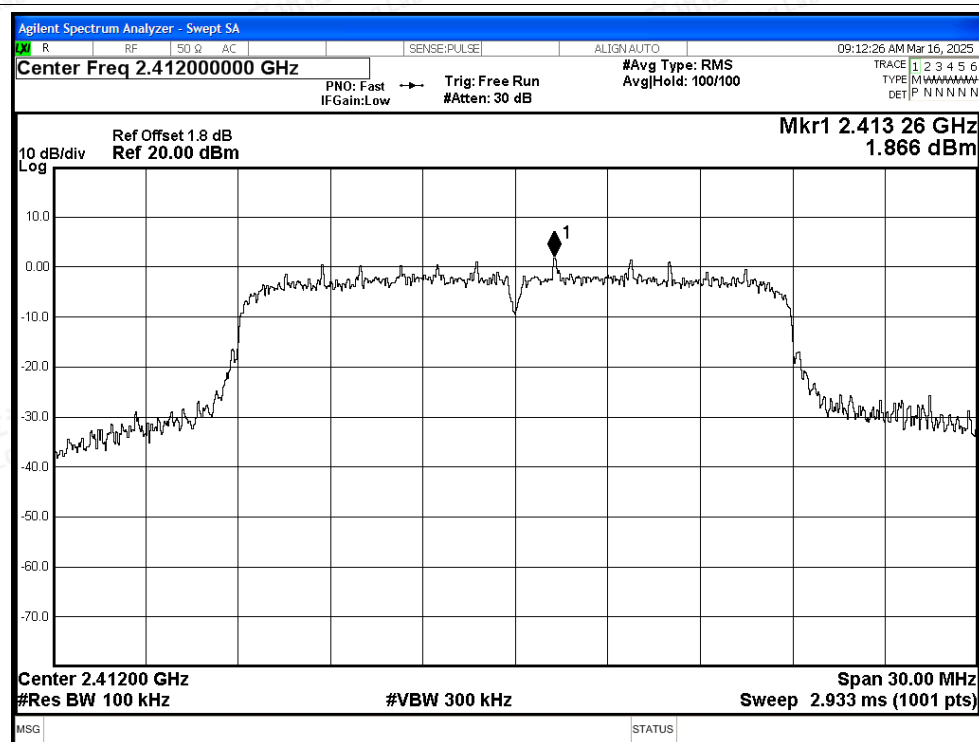
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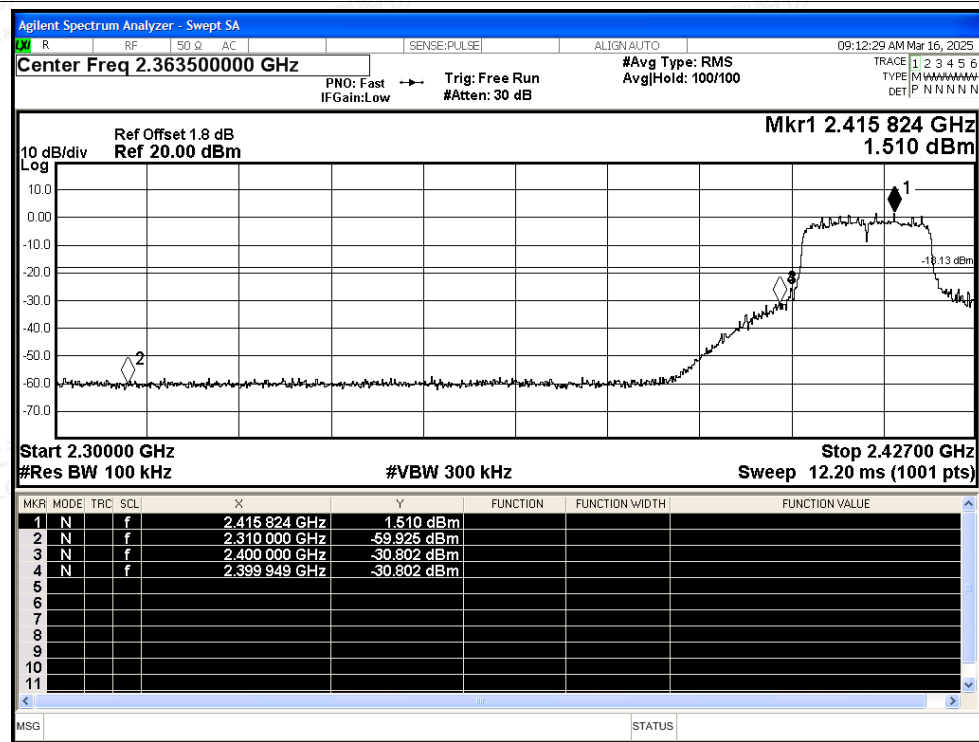
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## Band Edge NVNT n20 2412MHz Ant1 Ref



## Band Edge NVNT n20 2412MHz Ant1 Emission



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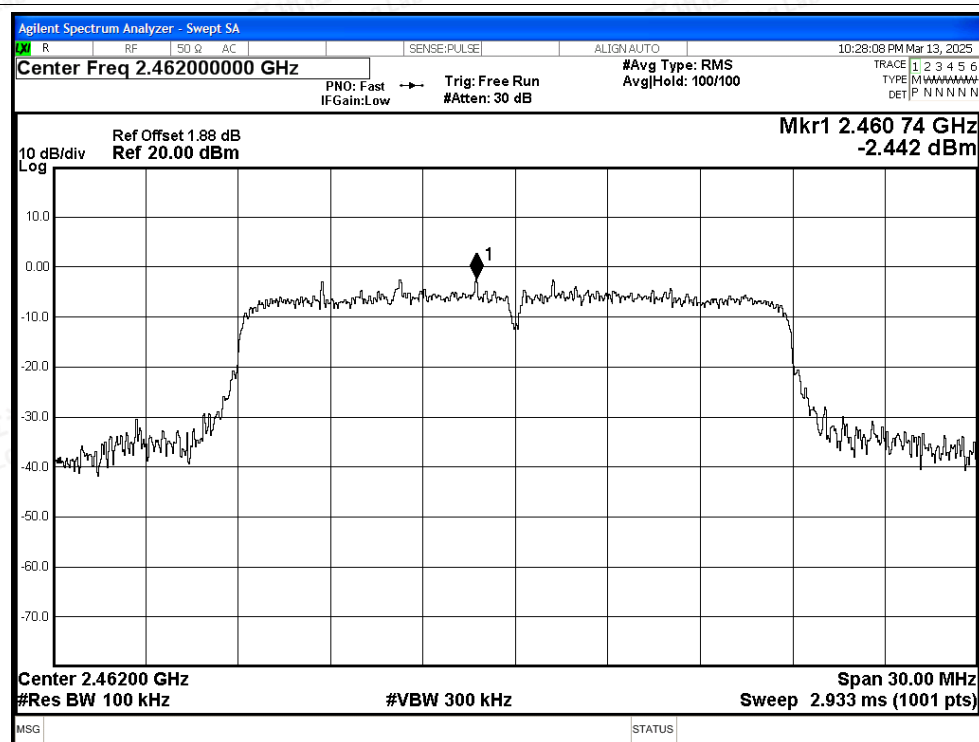
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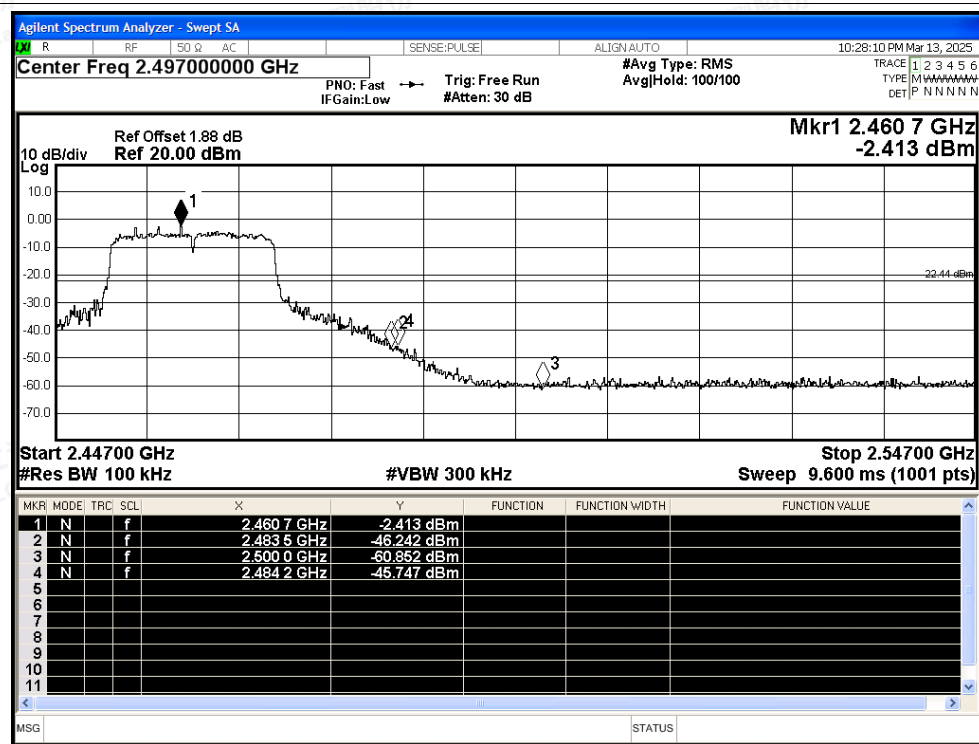
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## Band Edge NVNT n20 2462MHz Ant1 Ref



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## A.5 Conducted RF Spurious Emission

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | -51.95          | -20         | Pass    |
| NVNT      | b    | 2437            | Ant1    | -52.63          | -20         | Pass    |
| NVNT      | b    | 2462            | Ant1    | -53             | -20         | Pass    |
| NVNT      | g    | 2412            | Ant1    | -45.18          | -20         | Pass    |
| NVNT      | g    | 2437            | Ant1    | -45.09          | -20         | Pass    |
| NVNT      | g    | 2462            | Ant1    | -45.32          | -20         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -44.63          | -20         | Pass    |
| NVNT      | n20  | 2437            | Ant1    | -43.05          | -20         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -43.95          | -20         | Pass    |



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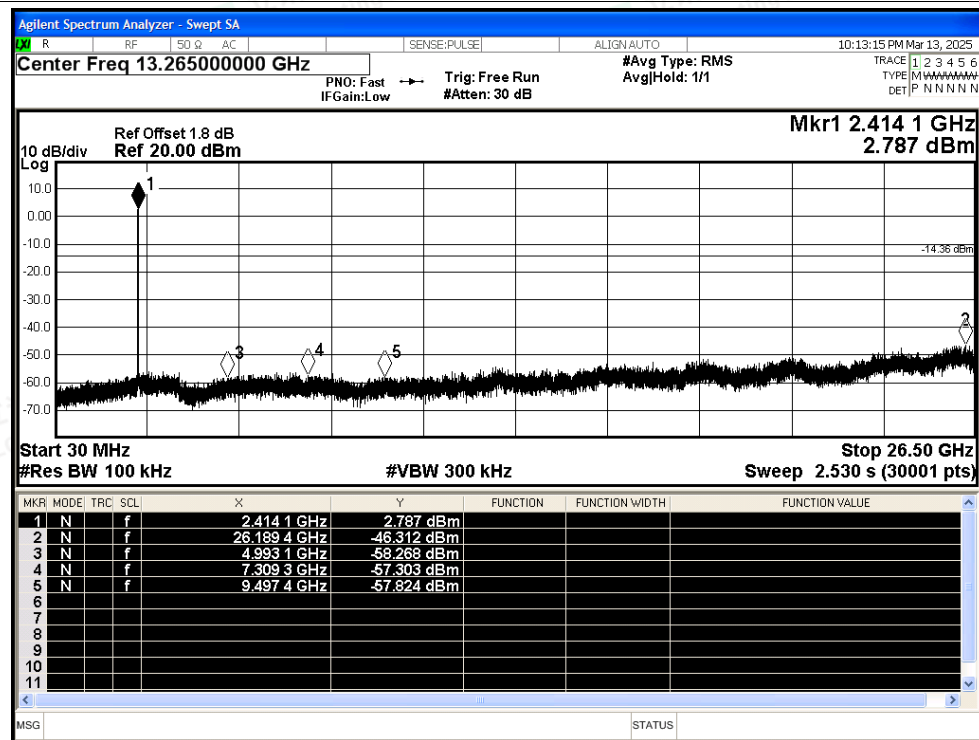


## Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



Tx. Spurious NVNT b 2412MHz Ant1 Emission



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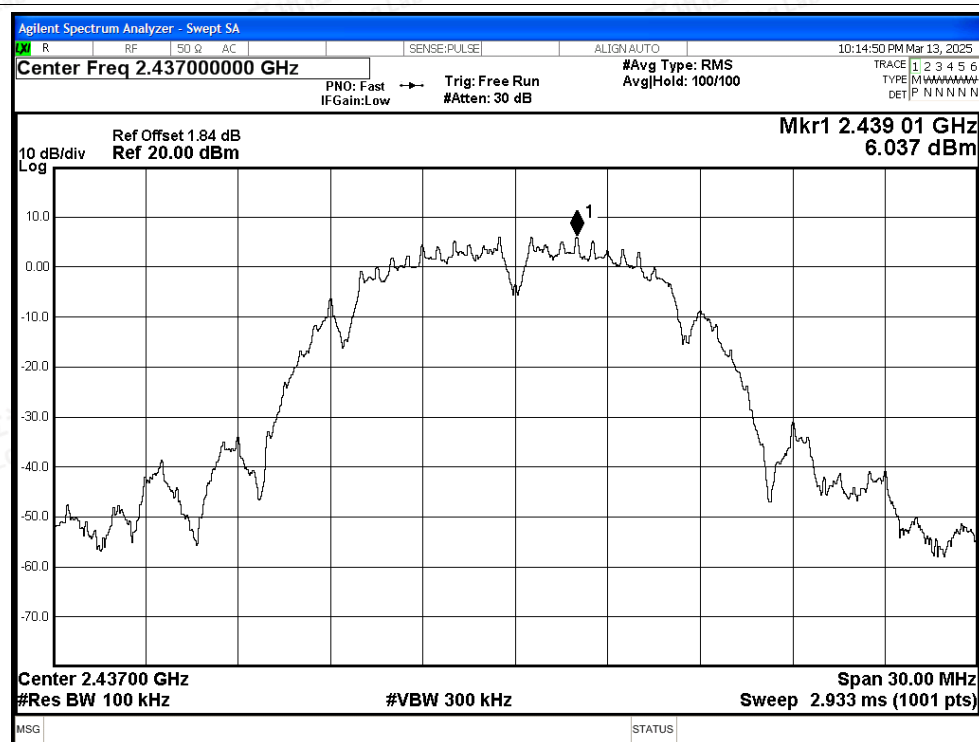
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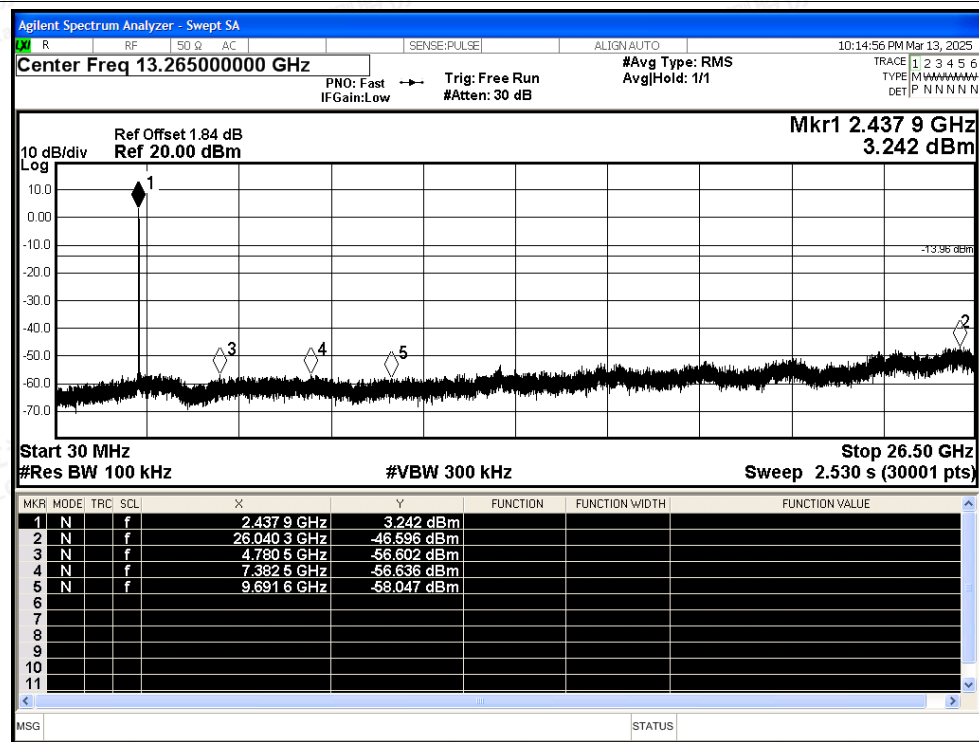
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## Tx. Spurious NVNT b 2437MHz Ant1 Ref



## Tx. Spurious NVNT b 2437MHz Ant1 Emission



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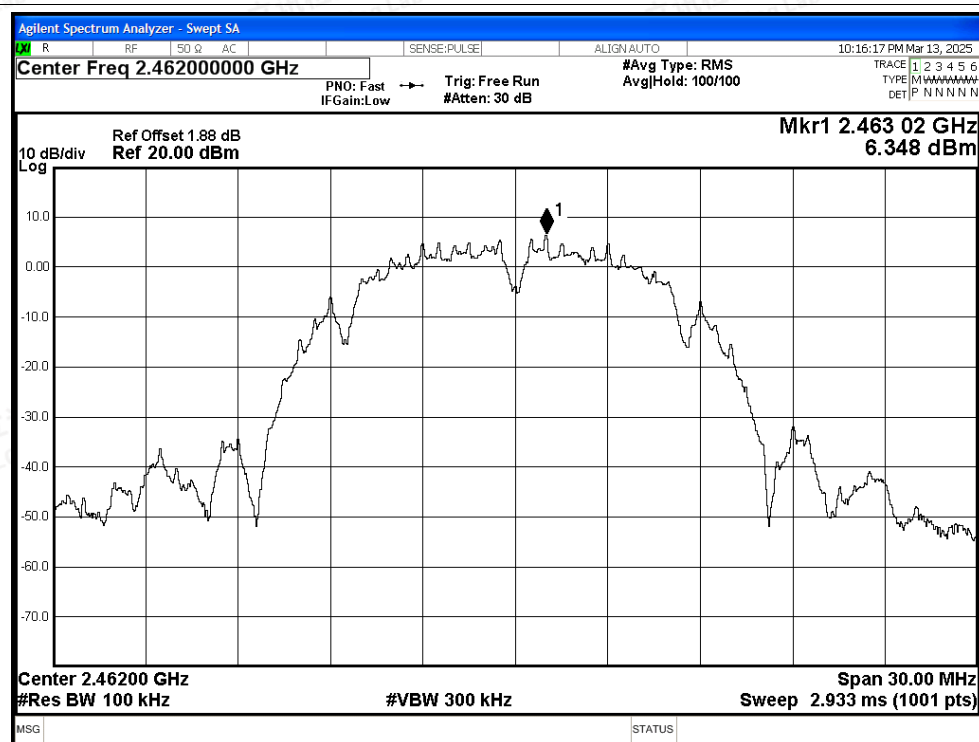
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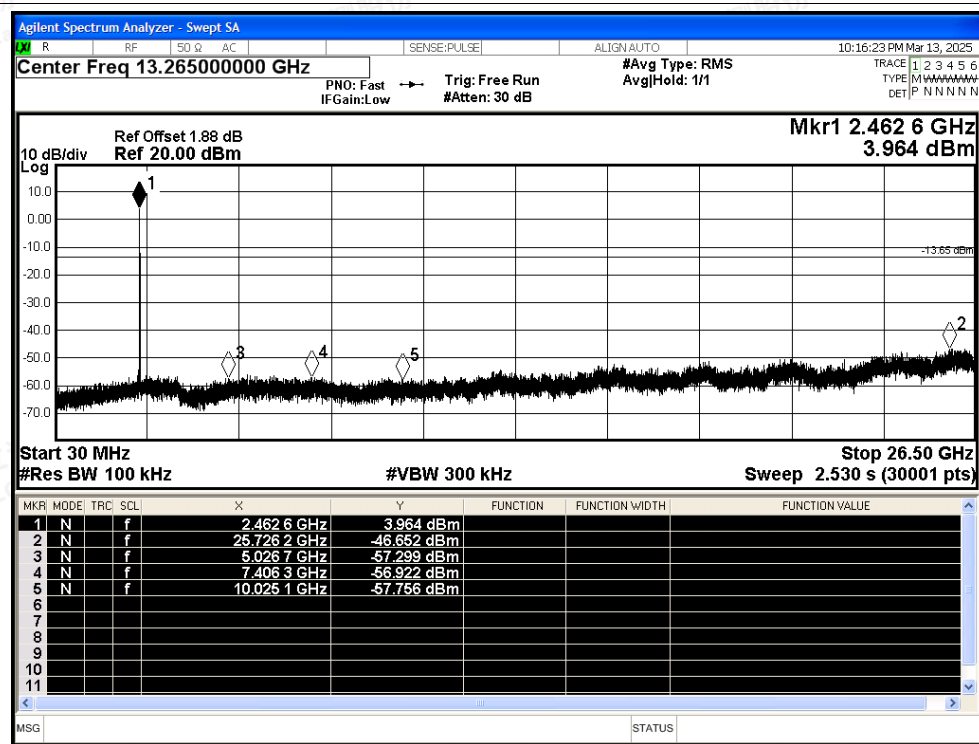




## Tx. Spurious NVNT b 2462MHz Ant1 Ref



## Tx. Spurious NVNT b 2462MHz Ant1 Emission



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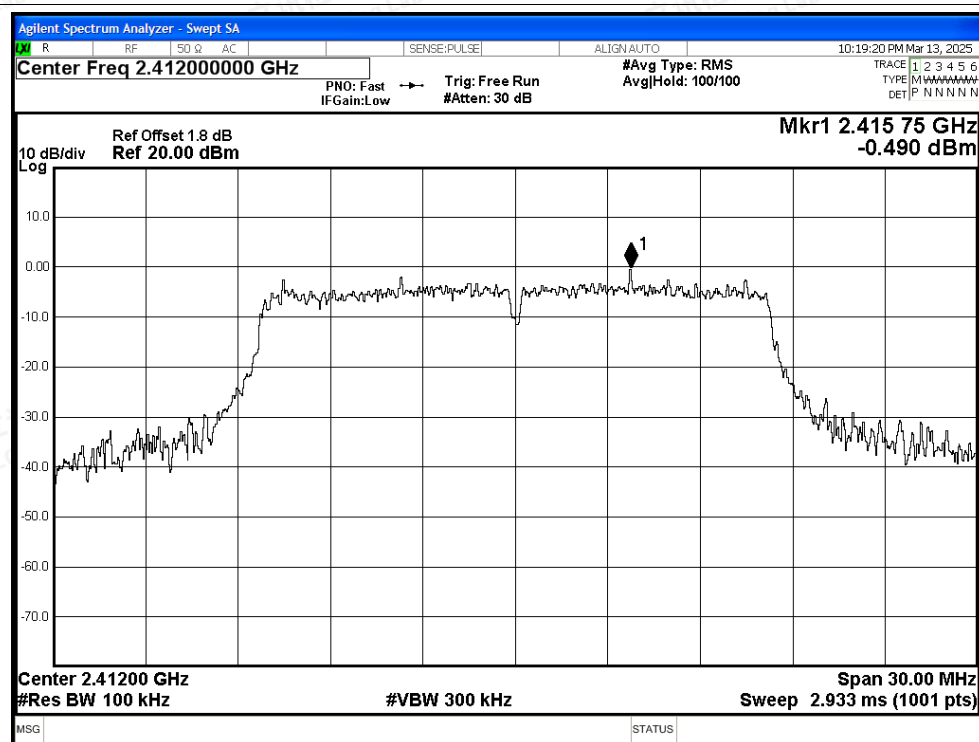
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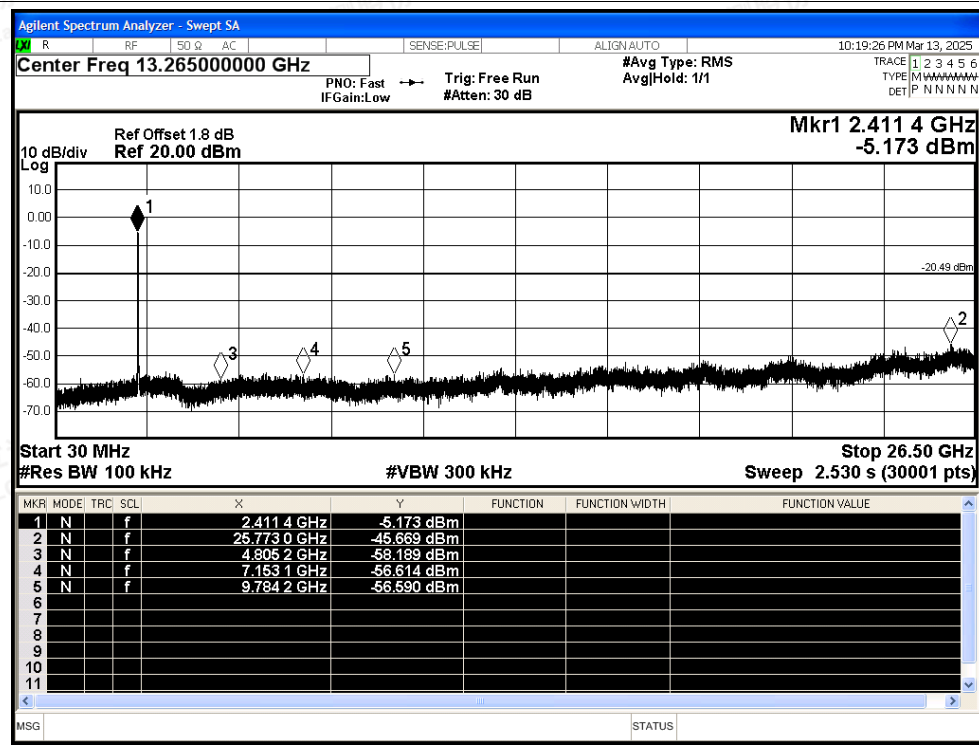
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## Tx. Spurious NVNT g 2412MHz Ant1 Ref



## Tx. Spurious NVNT g 2412MHz Ant1 Emission



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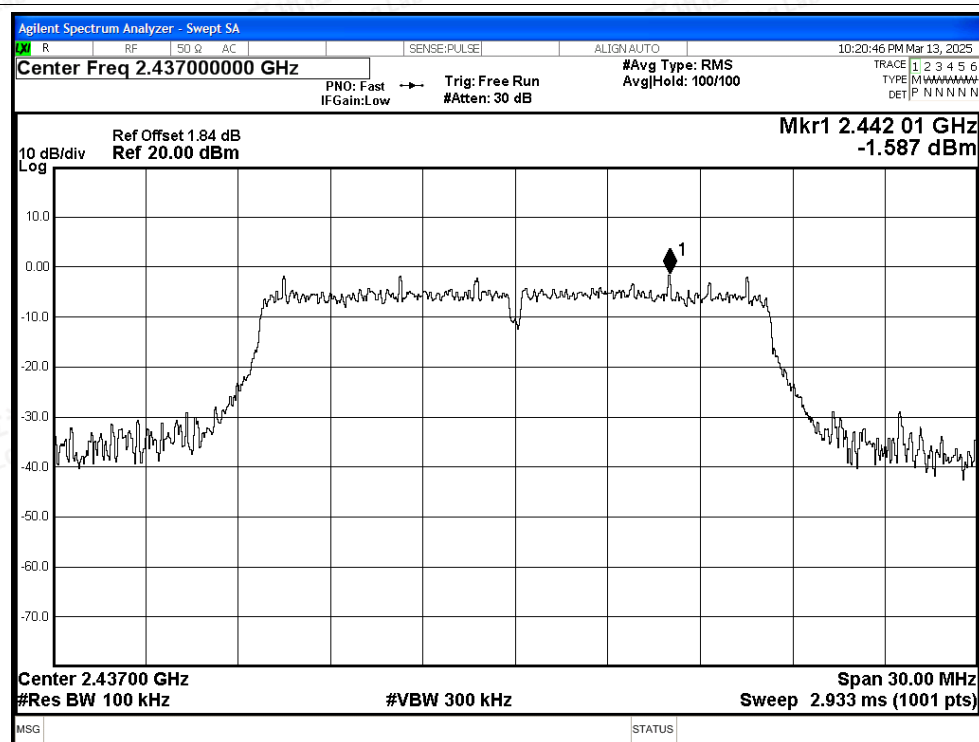
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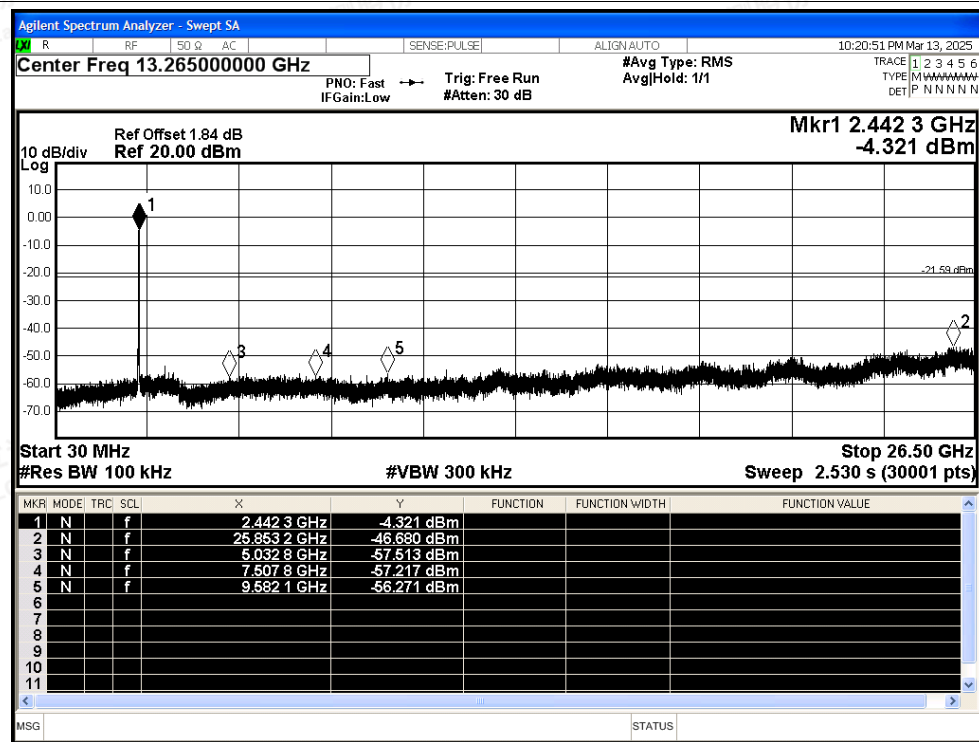
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## Tx. Spurious NVNT g 2437MHz Ant1 Ref



## Tx. Spurious NVNT g 2437MHz Ant1 Emission



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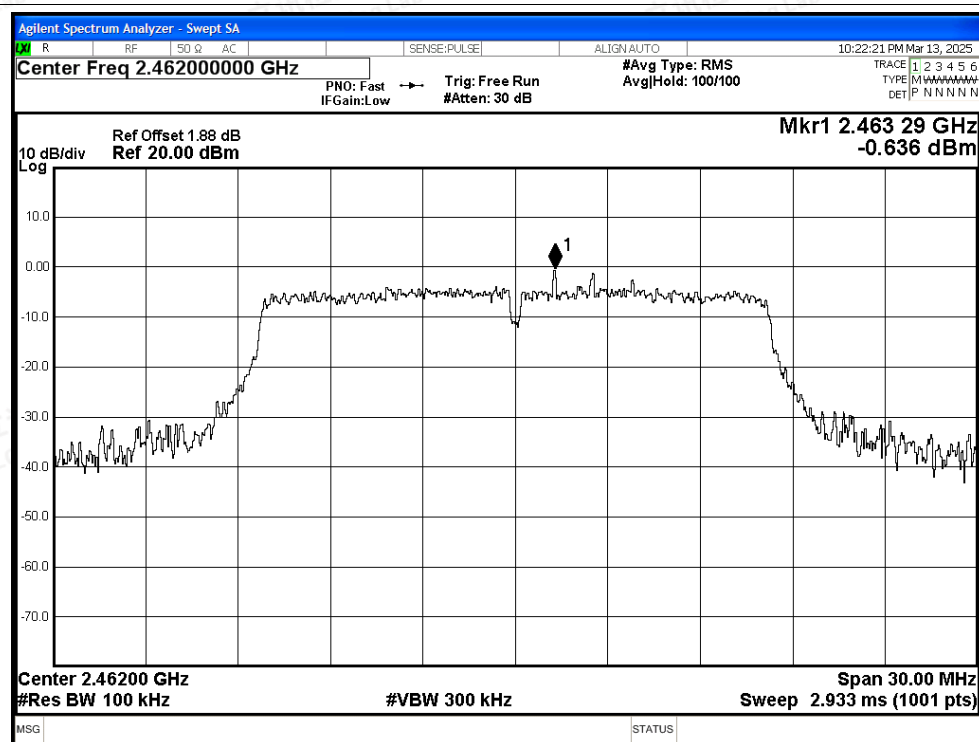
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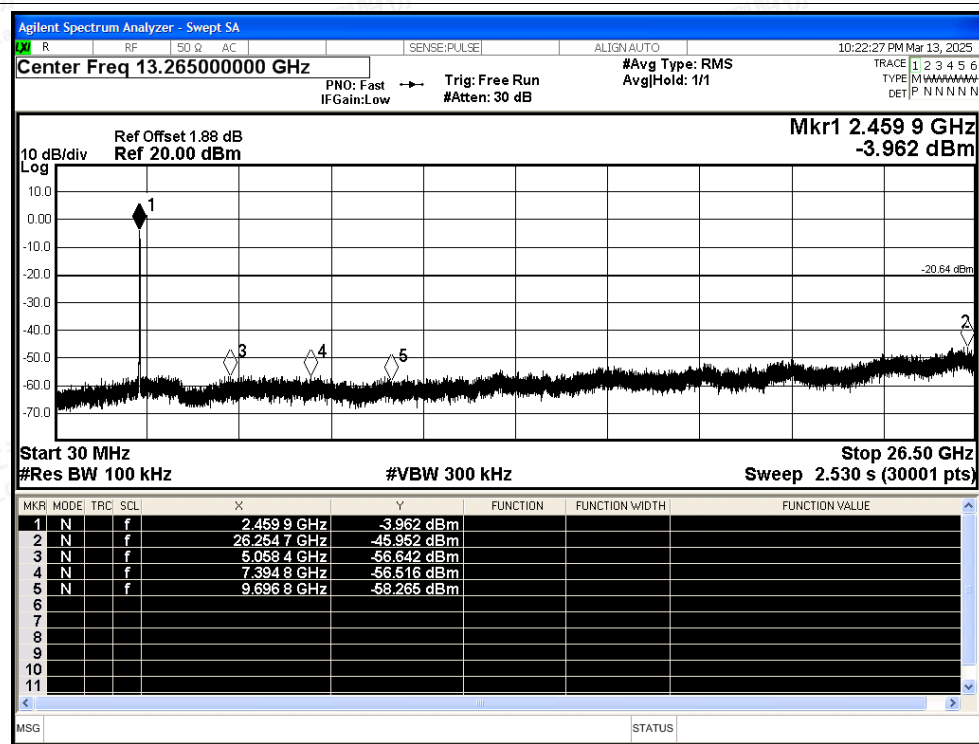
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## Tx. Spurious NVNT g 2462MHz Ant1 Ref



## Tx. Spurious NVNT g 2462MHz Ant1 Emission



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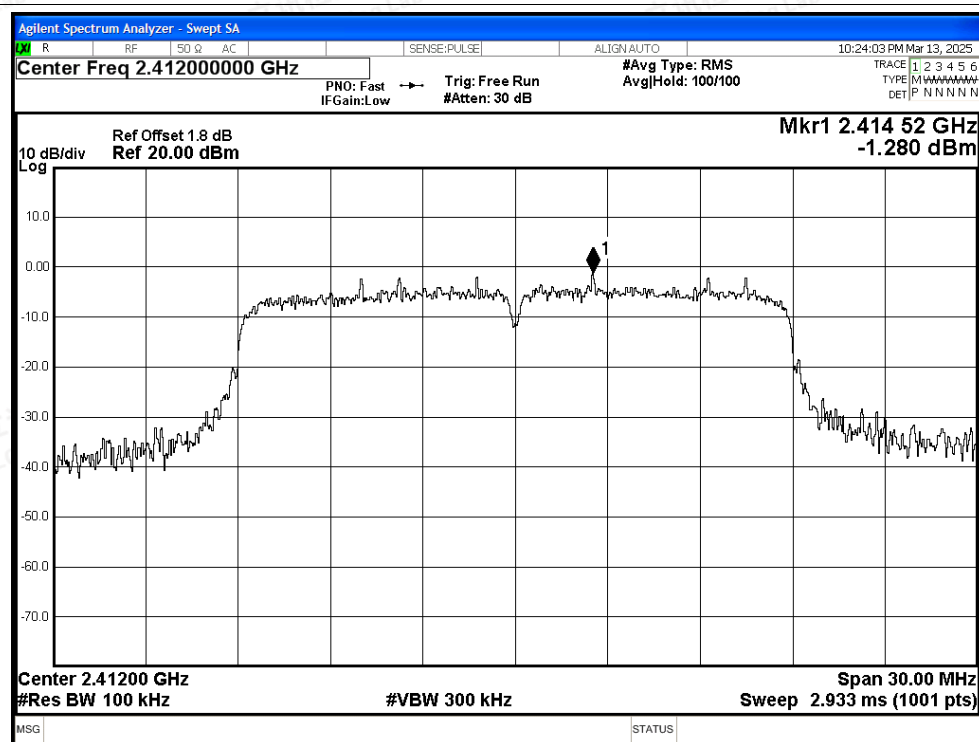
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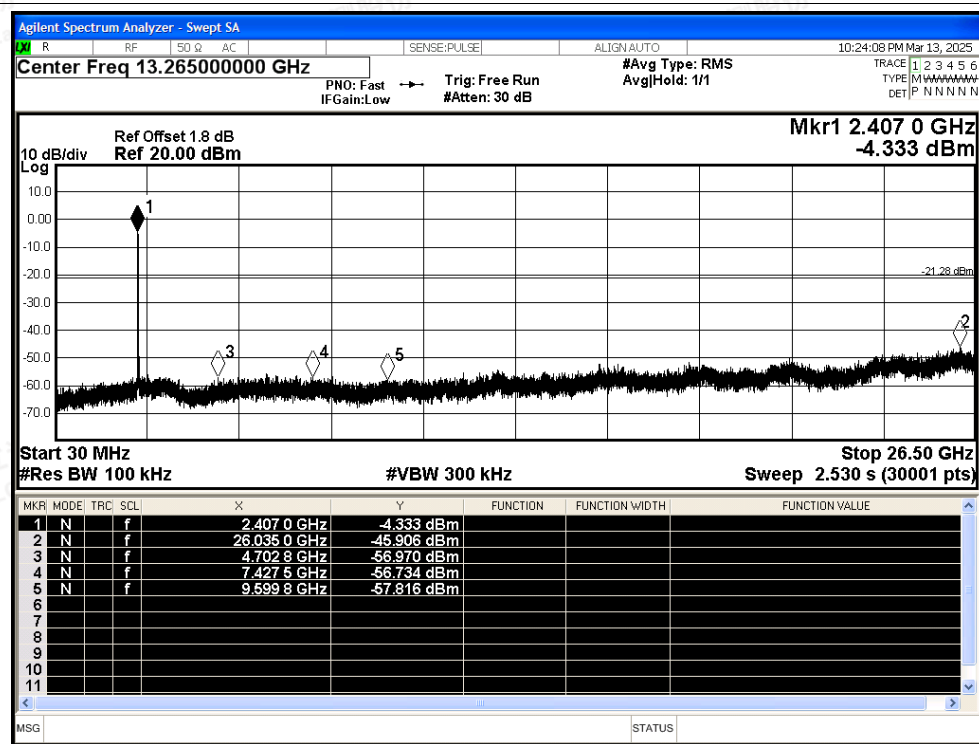
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## Tx. Spurious NVNT n20 2412MHz Ant1 Ref



## Tx. Spurious NVNT n20 2412MHz Ant1 Emission



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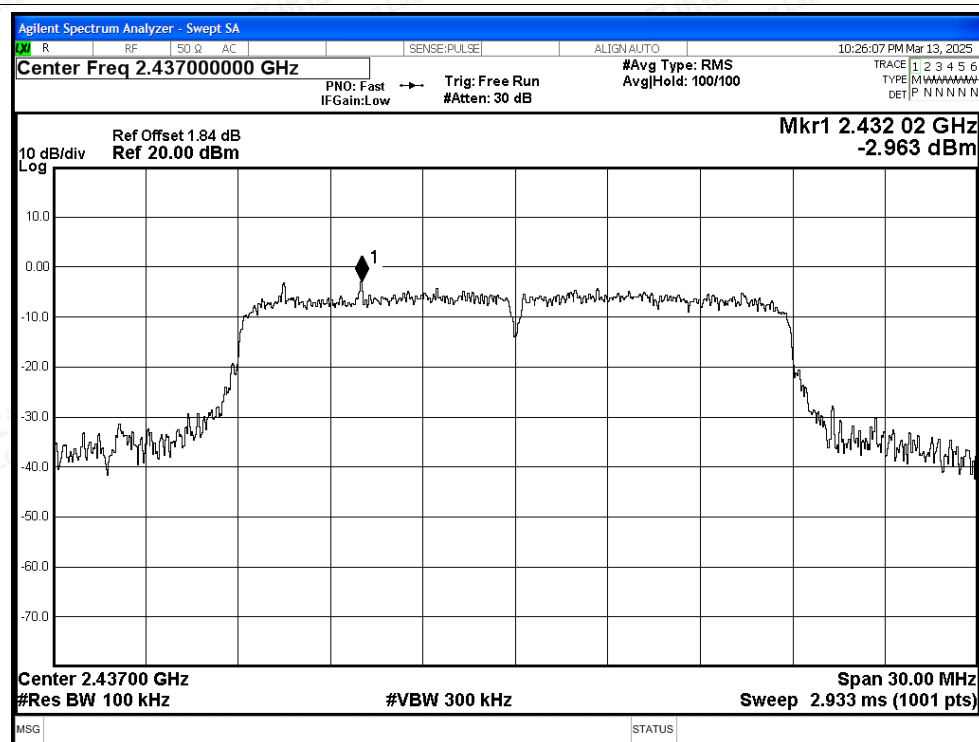
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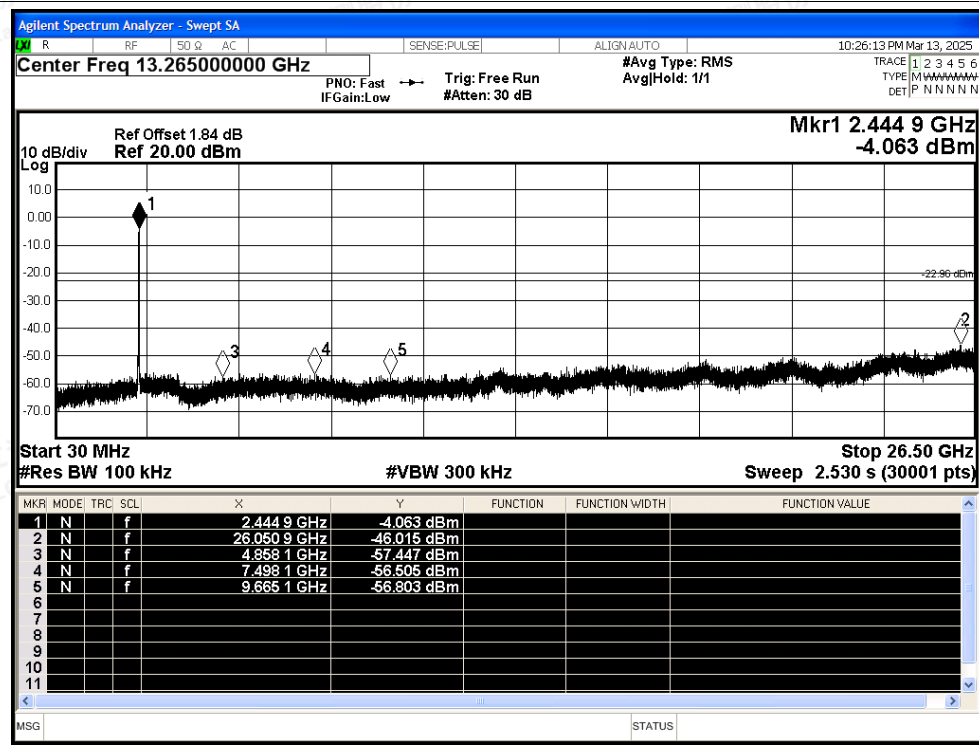
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## Tx. Spurious NVNT n20 2437MHz Ant1 Ref



## Tx. Spurious NVNT n20 2437MHz Ant1 Emission



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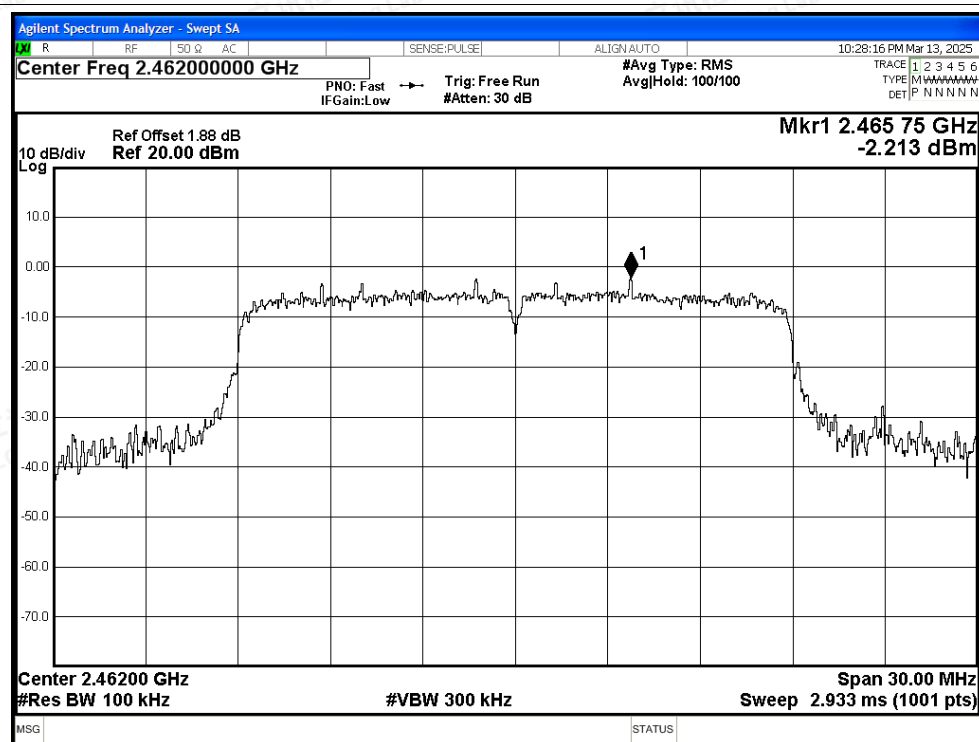
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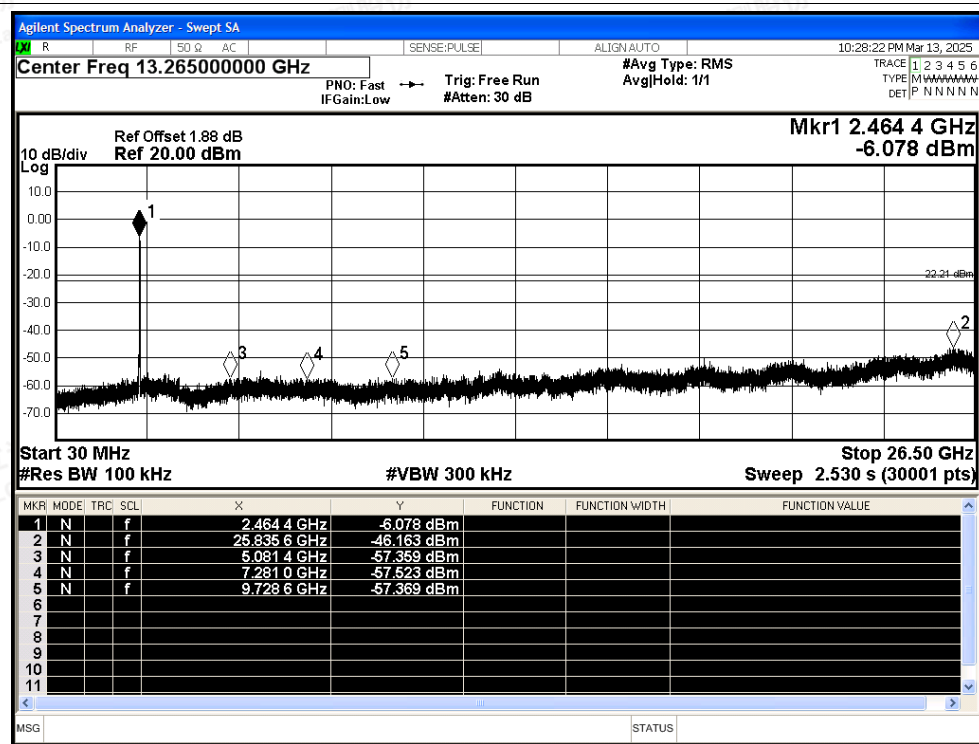
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## Tx. Spurious NVNT n20 2462MHz Ant1 Ref



## Tx. Spurious NVNT n20 2462MHz Ant1 Emission



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### A.6 Duty Cycle

| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|------|-----------------|---------|----------------|------------------------|-----------|
| NVNT      | b    | 2412            | Ant1    | 99.13          | 0                      | 0.15      |
| NVNT      | b    | 2437            | Ant1    | 99.13          | 0                      | 0.15      |
| NVNT      | b    | 2462            | Ant1    | 99.13          | 0                      | 0.15      |
| NVNT      | g    | 2412            | Ant1    | 97.75          | 0.1                    | 0.37      |
| NVNT      | g    | 2437            | Ant1    | 97.75          | 0.1                    | 0.37      |
| NVNT      | g    | 2462            | Ant1    | 97.68          | 0.1                    | 0.37      |
| NVNT      | n20  | 2412            | Ant1    | 97.33          | 0.12                   | 0.44      |
| NVNT      | n20  | 2437            | Ant1    | 97.33          | 0.12                   | 0.44      |
| NVNT      | n20  | 2462            | Ant1    | 97.25          | 0.12                   | 0.44      |



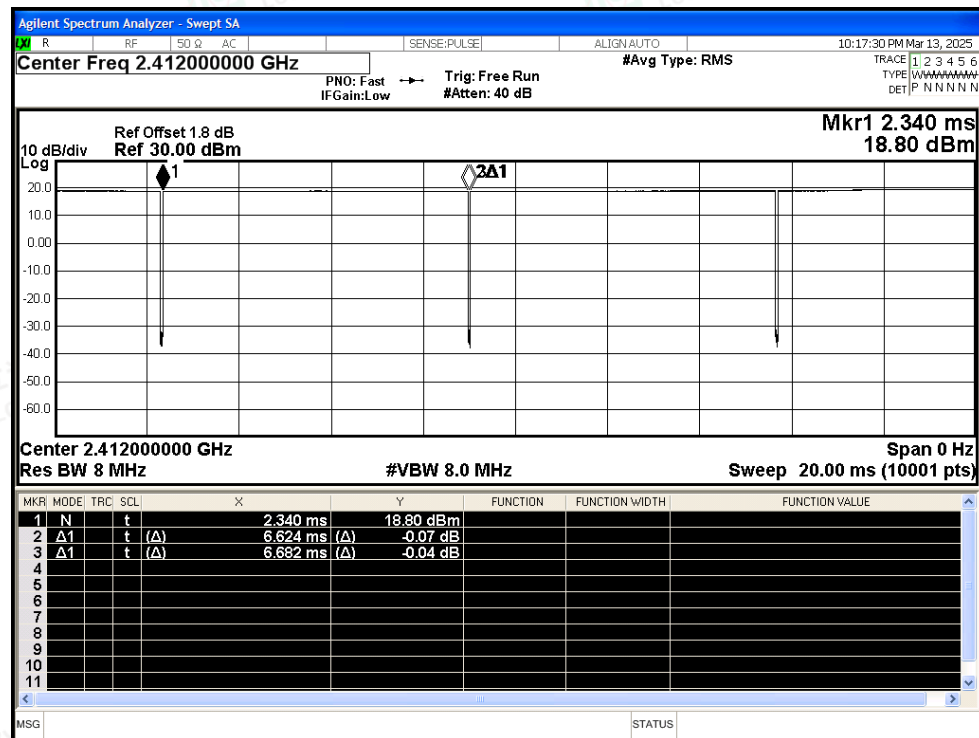
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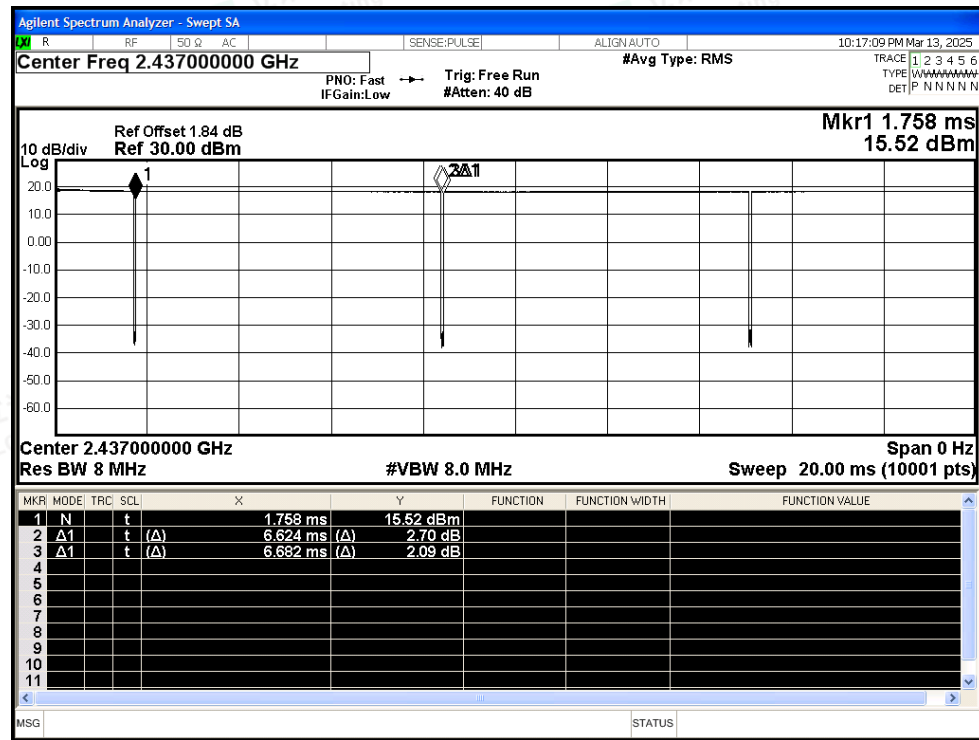


## Test Graphs

## Duty Cycle NVNT b 2412MHz Ant1



## Duty Cycle NVNT b 2437MHz Ant1



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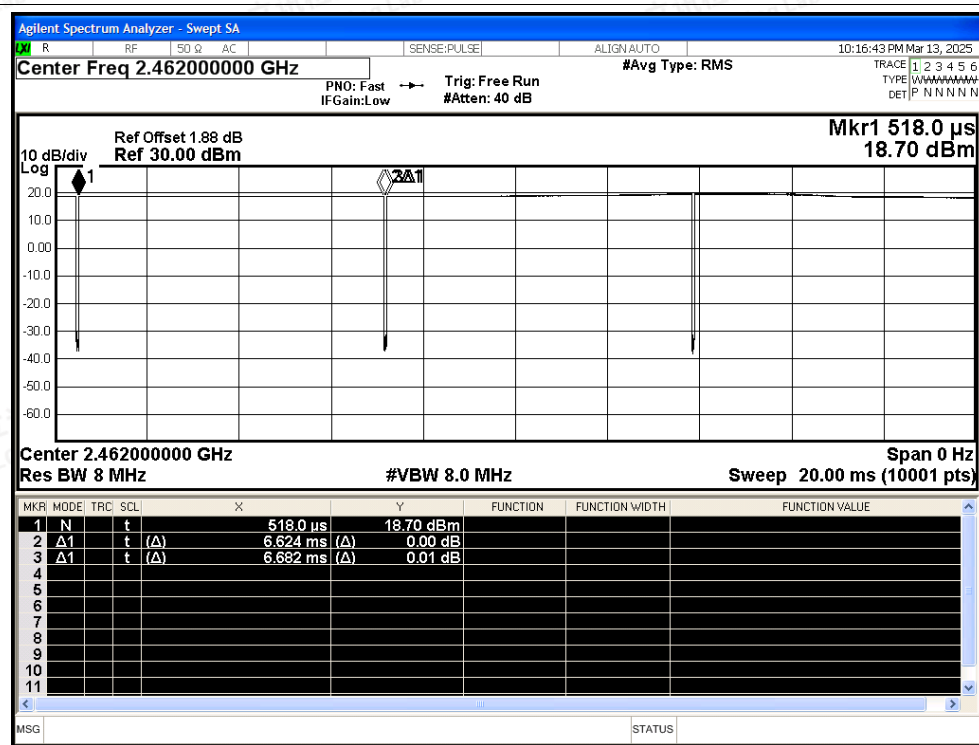
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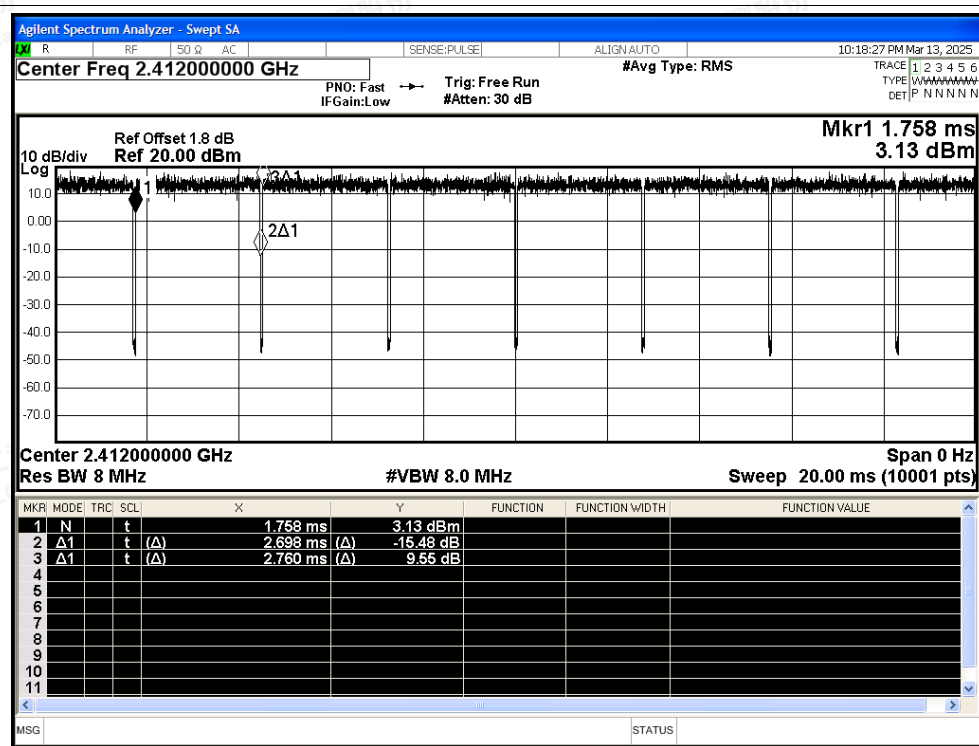
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## Duty Cycle NVNT b 2462MHz Ant1



## Duty Cycle NVNT g 2412MHz Ant1



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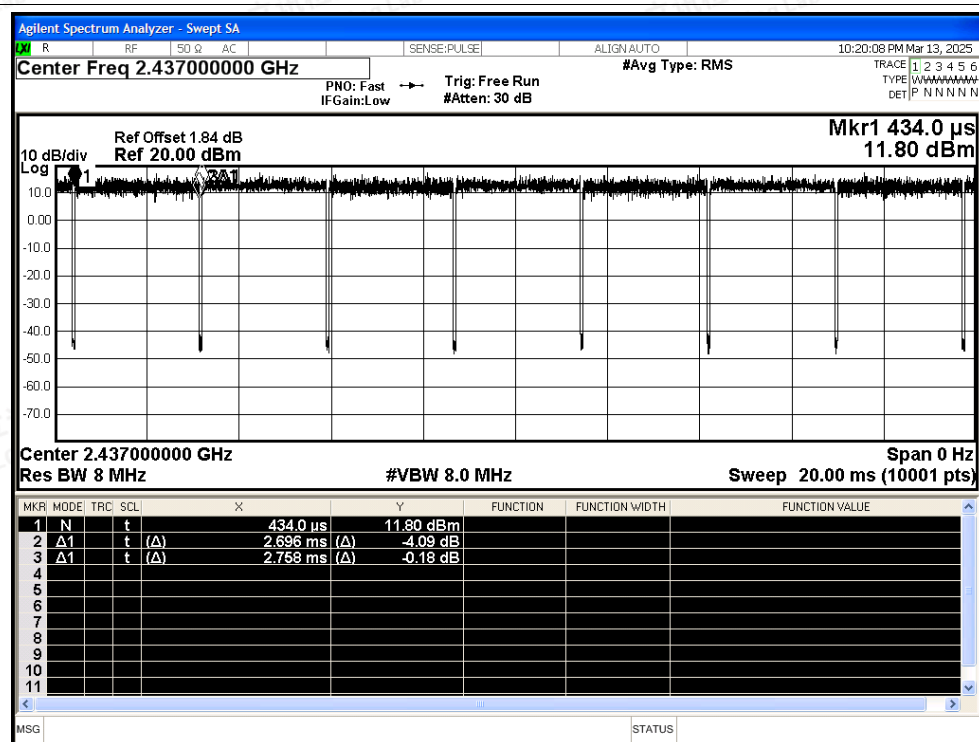
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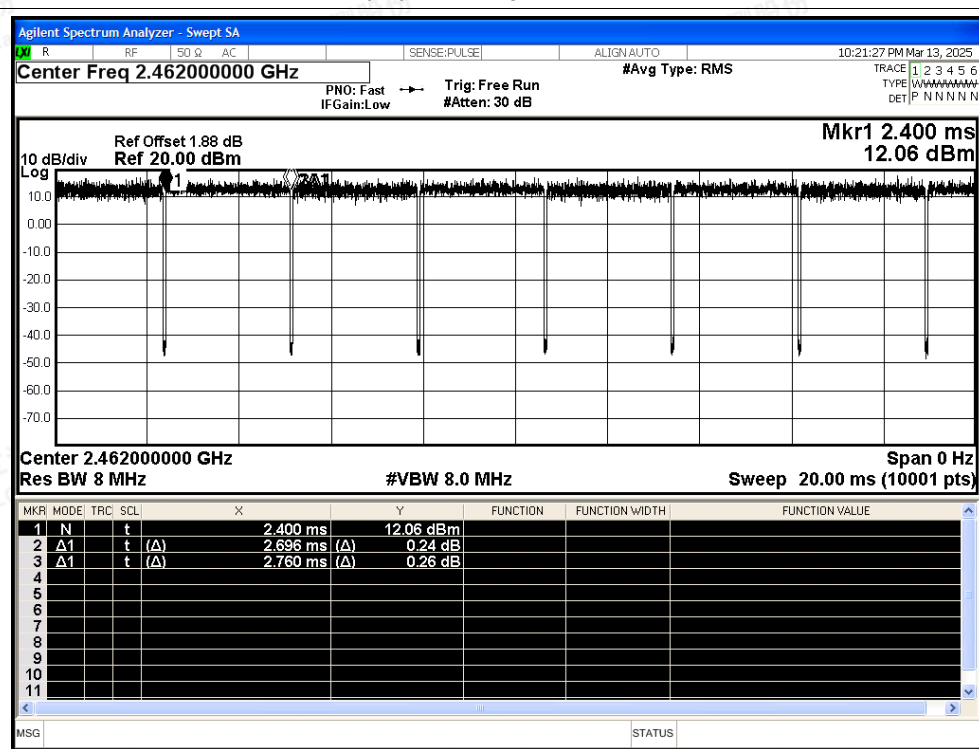
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## Duty Cycle NVNT g 2437MHz Ant1



## Duty Cycle NVNT g 2462MHz Ant1



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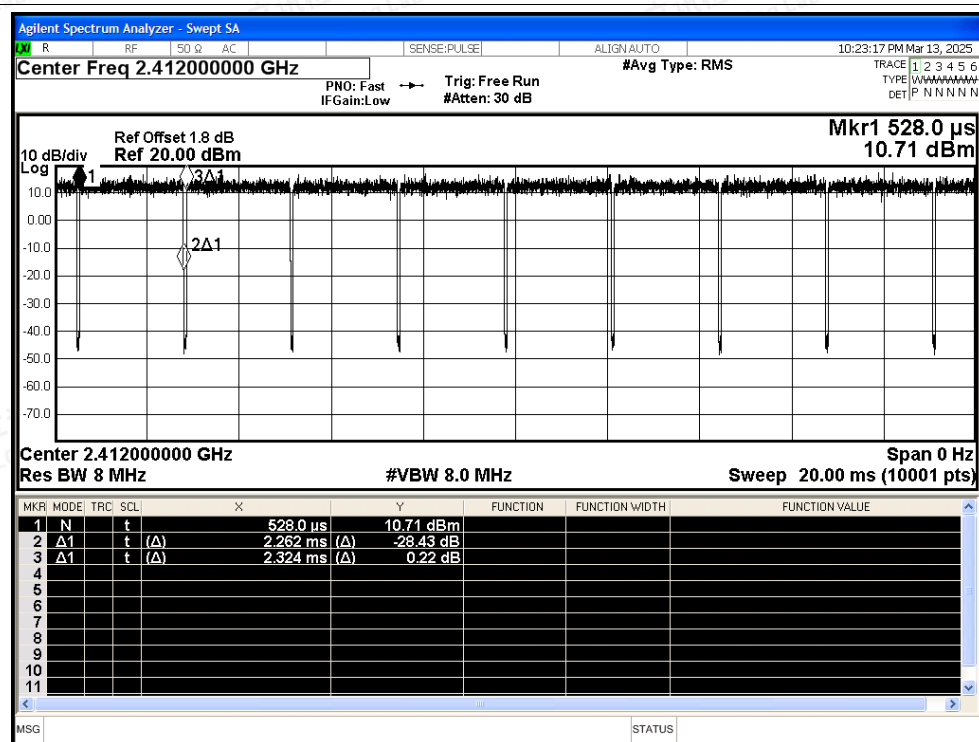
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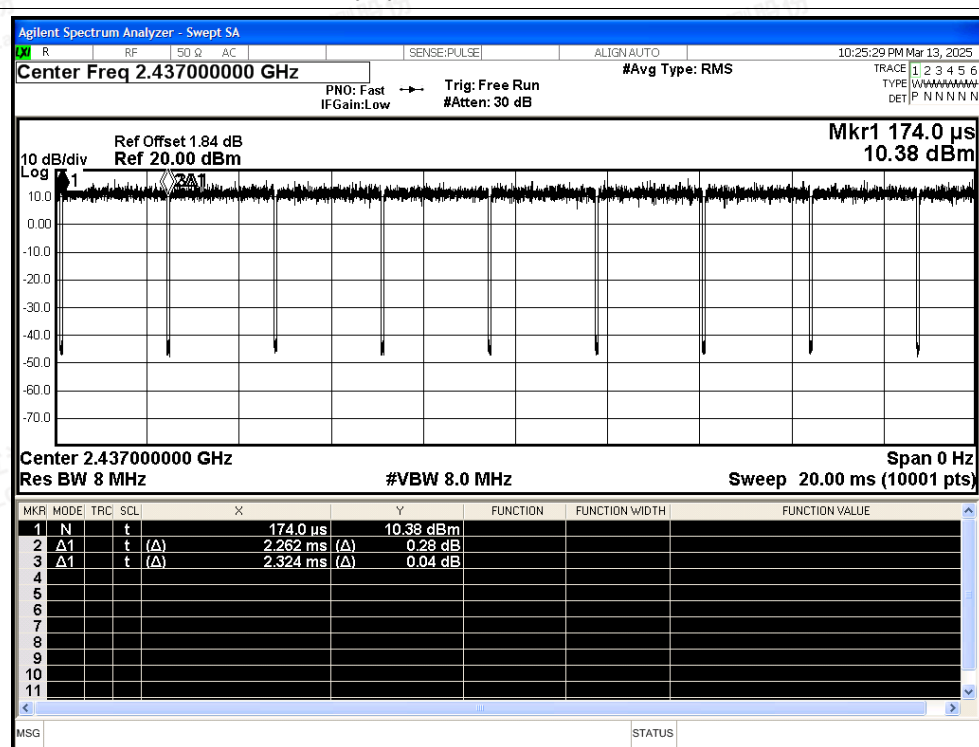
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## Duty Cycle NVNT n20 2412MHz Ant1



## Duty Cycle NVNT n20 2437MHz Ant1

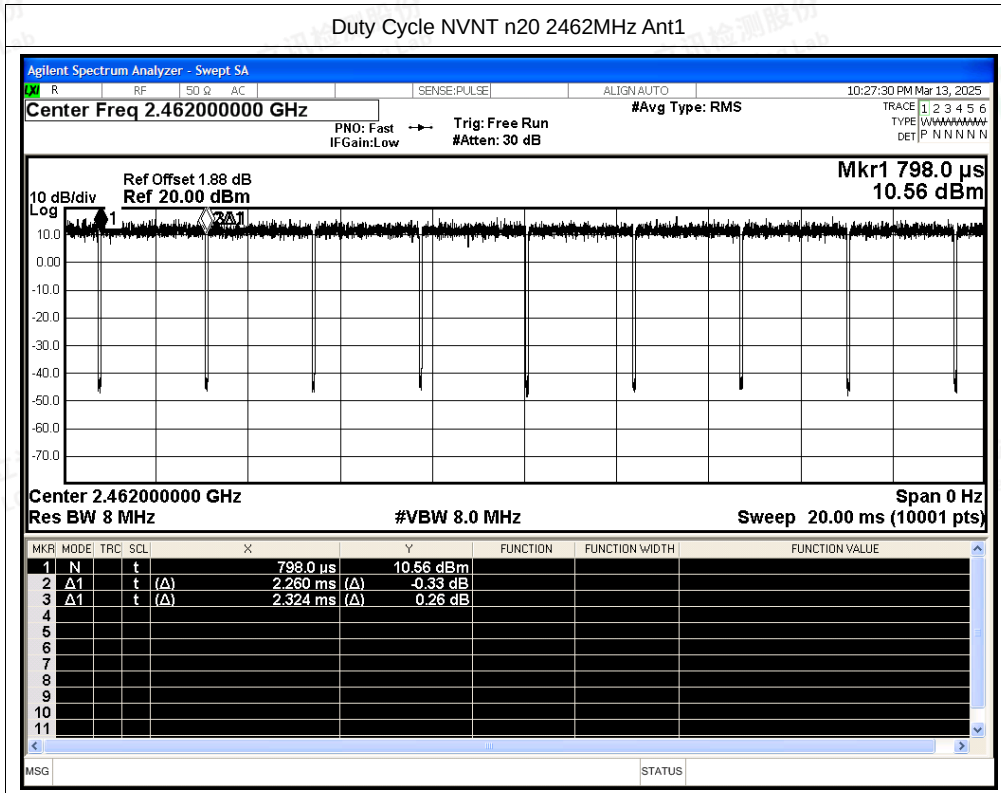


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## A.7 Restrict Band

| Condition | Mode | Frequency (MHz) | Antenna | Spur Freq (MHz) | Power (dBm) | Gain (dBi) | Duty Factor (dB) | E (dBuV/m) | Detector | Limit (dBuV/m) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|------------|------------------|------------|----------|----------------|---------|
| NVNT      | b    | 2412            | Ant1    | 2310            | -51.11      | 2.59       | -                | 46.74      | Peak     | 74             | Pass    |
| NVNT      | b    | 2412            | Ant1    | 2310            | -59.16      | 2.59       | 0                | 38.69      | Average  | 54             | Pass    |
| NVNT      | b    | 2412            | Ant1    | 2387.922        | -46.78      | 2.59       | -                | 51.07      | Peak     | 74             | Pass    |
| NVNT      | b    | 2412            | Ant1    | 2387.571        | -56.31      | 2.59       | 0                | 41.54      | Average  | 54             | Pass    |
| NVNT      | b    | 2412            | Ant1    | 2390            | -47.99      | 2.59       | -                | 49.86      | Peak     | 74             | Pass    |
| NVNT      | b    | 2412            | Ant1    | 2390            | -56.02      | 2.59       | 0                | 41.83      | Average  | 54             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2483.5          | -47.37      | 2.59       | -                | 50.48      | Peak     | 74             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2483.5          | -54.68      | 2.59       | 0                | 43.17      | Average  | 54             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2487.704        | -42.83      | 2.59       | -                | 55.02      | Peak     | 74             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2484.524        | -54.63      | 2.59       | 0                | 43.22      | Average  | 54             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2500            | -51.18      | 2.59       | -                | 46.67      | Peak     | 74             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2500            | -58.1       | 2.59       | 0                | 39.75      | Average  | 54             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2310            | -51.91      | 2.59       | -                | 45.94      | Peak     | 74             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2310            | -58.98      | 2.59       | 0.1              | 38.97      | Average  | 54             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2389.443        | -37.54      | 2.59       | -                | 60.31      | Peak     | 74             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2389.677        | -54.64      | 2.59       | 0.1              | 43.31      | Average  | 54             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2390            | -39.9       | 2.59       | -                | 57.95      | Peak     | 74             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2390            | -55.13      | 2.59       | 0.1              | 42.82      | Average  | 54             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2483.5          | -46.05      | 2.59       | -                | 51.8       | Peak     | 74             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2483.5          | -54.57      | 2.59       | 0.1              | 43.38      | Average  | 54             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2484.206        | -39.1       | 2.59       | -                | 58.75      | Peak     | 74             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2483.517        | -54.57      | 2.59       | 0.1              | 43.38      | Average  | 54             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2500            | -50.53      | 2.59       | -                | 47.32      | Peak     | 74             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2500            | -58.26      | 2.59       | 0.1              | 39.69      | Average  | 54             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2310            | -49.79      | 2.59       | -                | 48.06      | Peak     | 74             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2310            | -59.11      | 2.59       | 0.12             | 38.86      | Average  | 54             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2389.794        | -38.15      | 2.59       | -                | 59.7       | Peak     | 74             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2389.911        | -55.78      | 2.59       | 0.12             | 42.19      | Average  | 54             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2390            | -44.32      | 2.59       | -                | 53.53      | Peak     | 74             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2390            | -56.03      | 2.59       | 0.12             | 41.94      | Average  | 54             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2483.5          | -39.95      | 2.59       | -                | 57.9       | Peak     | 74             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2483.5          | -53.77      | 2.59       | 0.12             | 44.2       | Average  | 54             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2484.683        | -37.7       | 2.59       | -                | 60.15      | Peak     | 74             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2483.57         | -52.77      | 2.59       | 0.12             | 45.2       | Average  | 54             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2500            | -50.14      | 2.59       | -                | 47.71      | Peak     | 74             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2500            | -58.32      | 2.59       | 0.12             | 39.65      | Average  | 54             | Pass    |



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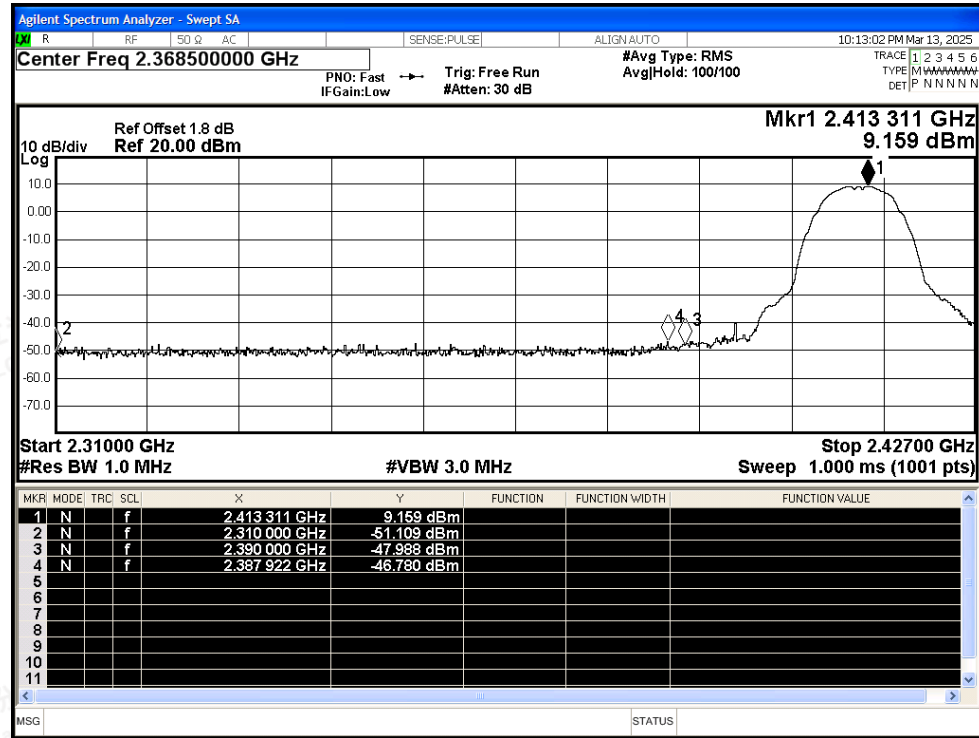
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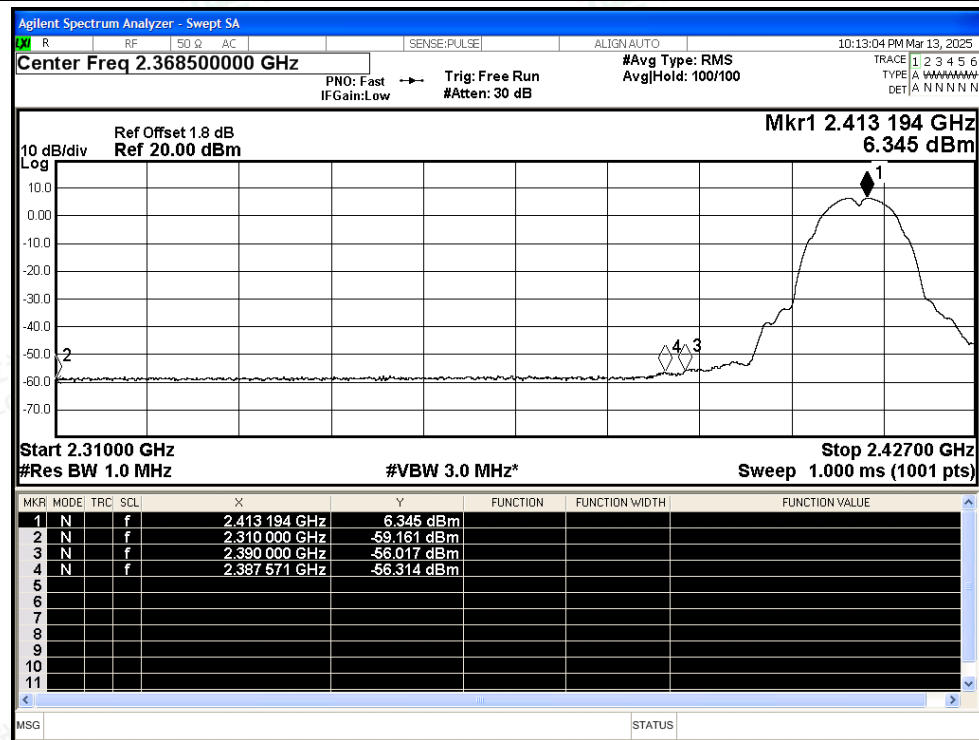


## Test Graphs

## Restrict Band NVNT b 2412MHz Ant1 Peak



## Restrict Band NVNT b 2412MHz Ant1 Average



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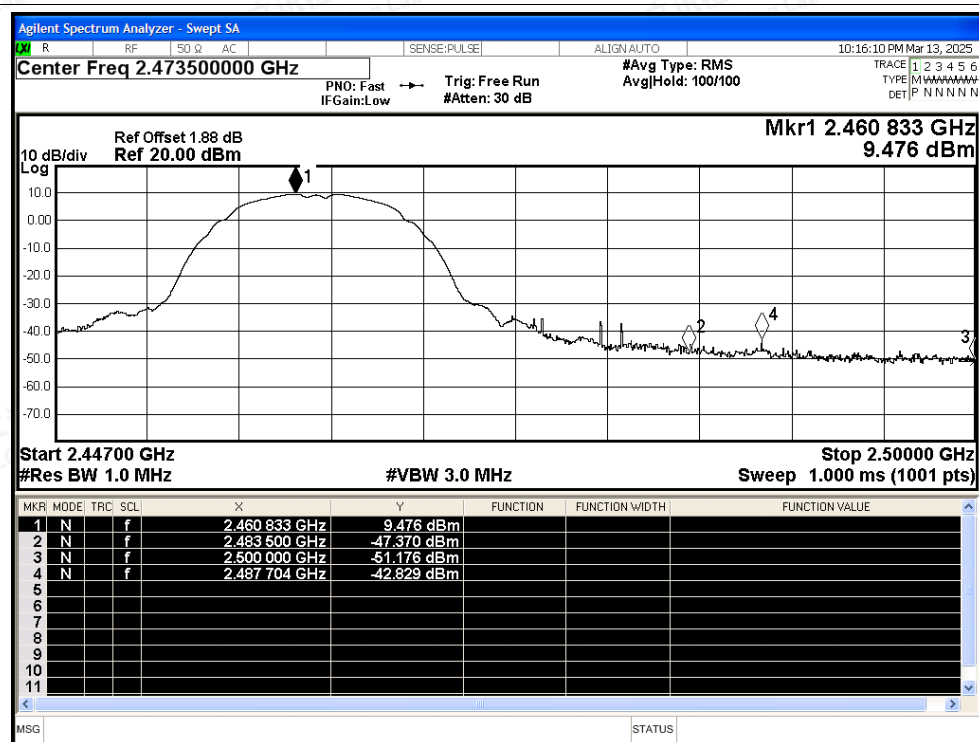
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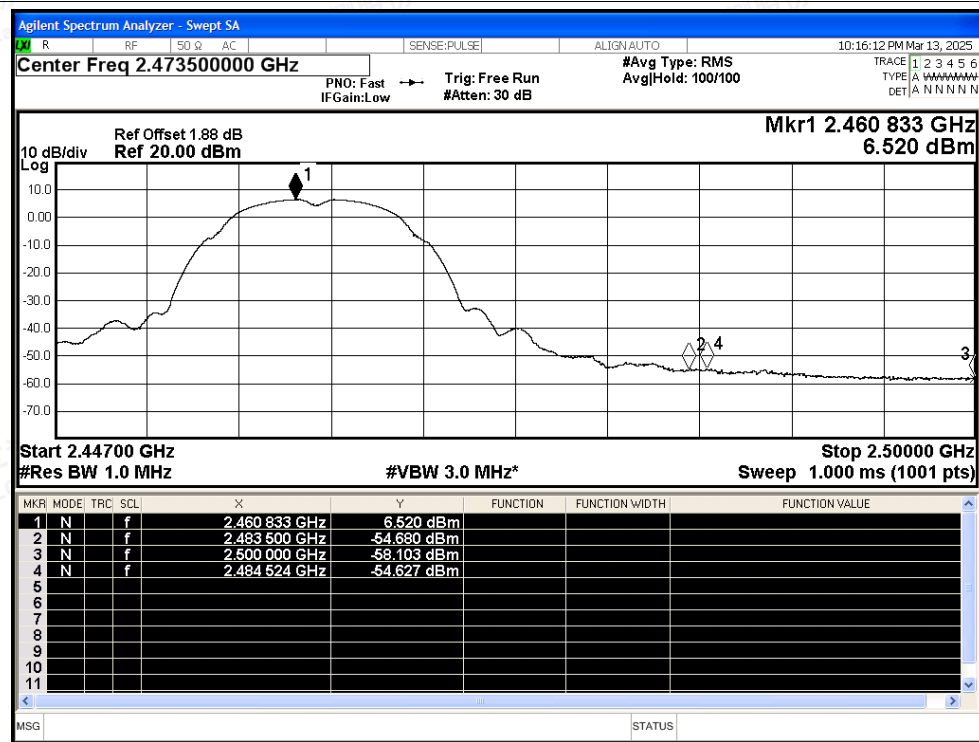




## Restrict Band NVNT b 2462MHz Ant1 Peak



## Restrict Band NVNT b 2462MHz Ant1 Average



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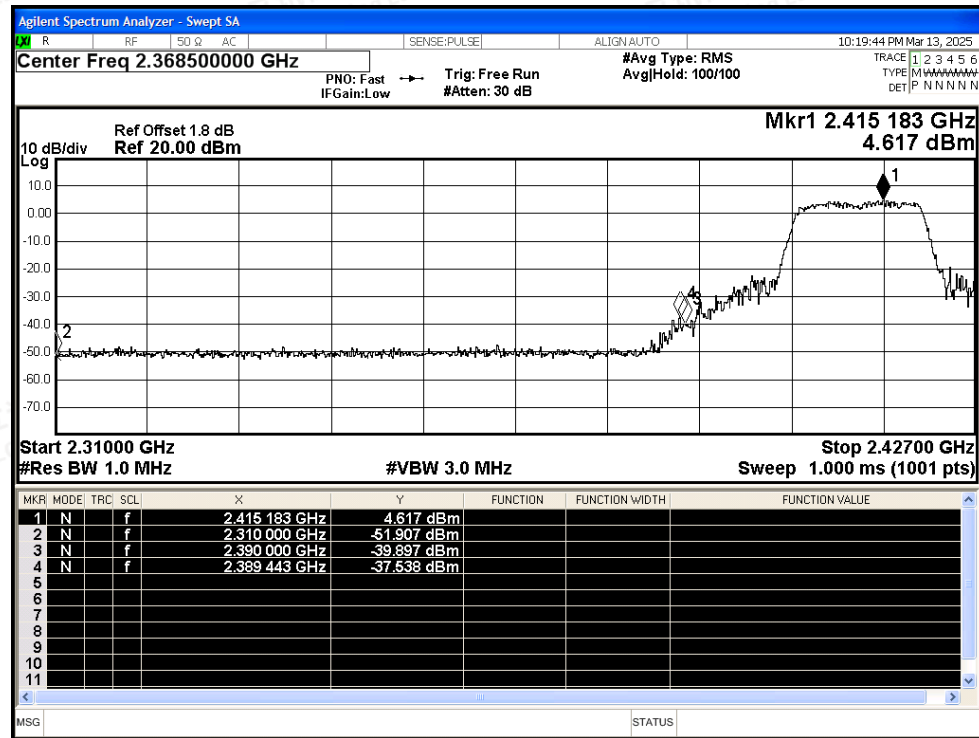
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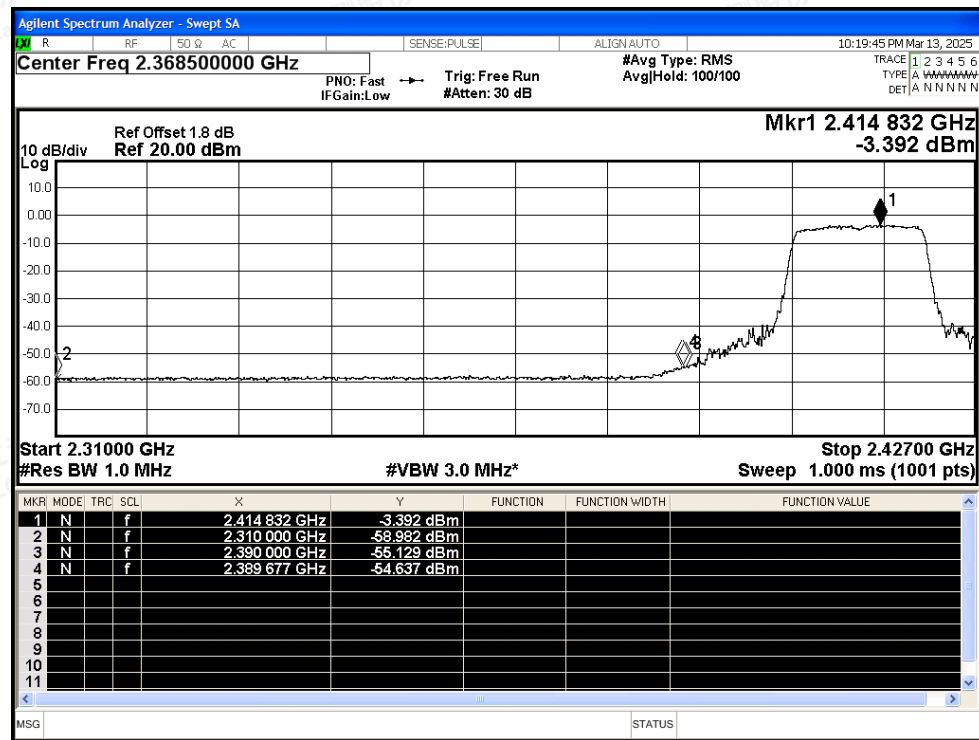




## Restrict Band NVNT g 2412MHz Ant1 Peak



## Restrict Band NVNT g 2412MHz Ant1 Average



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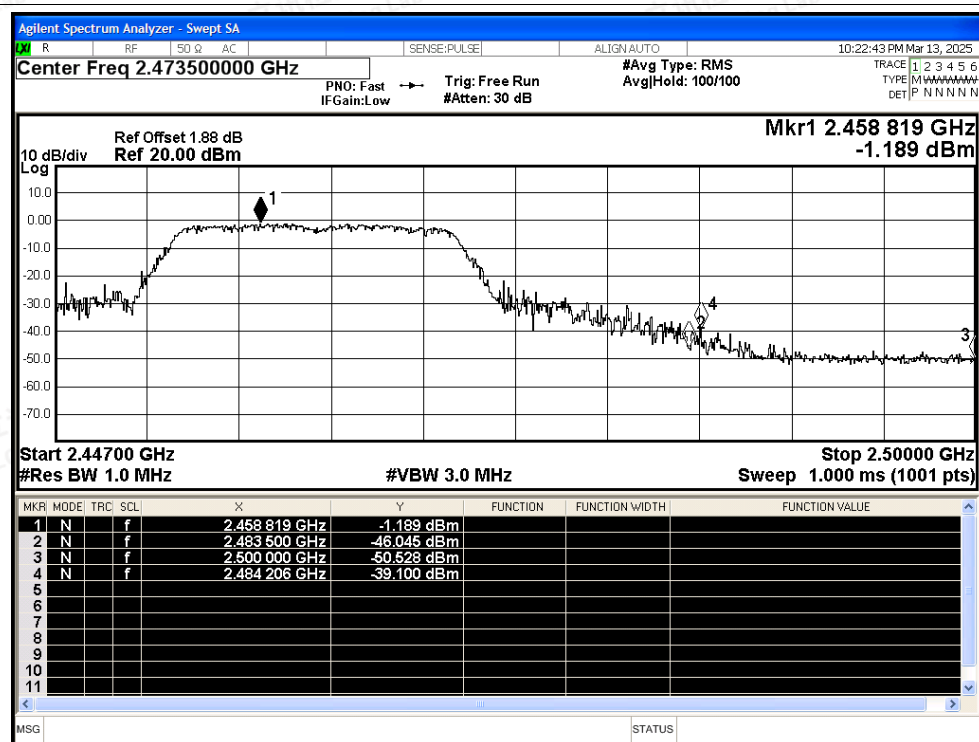
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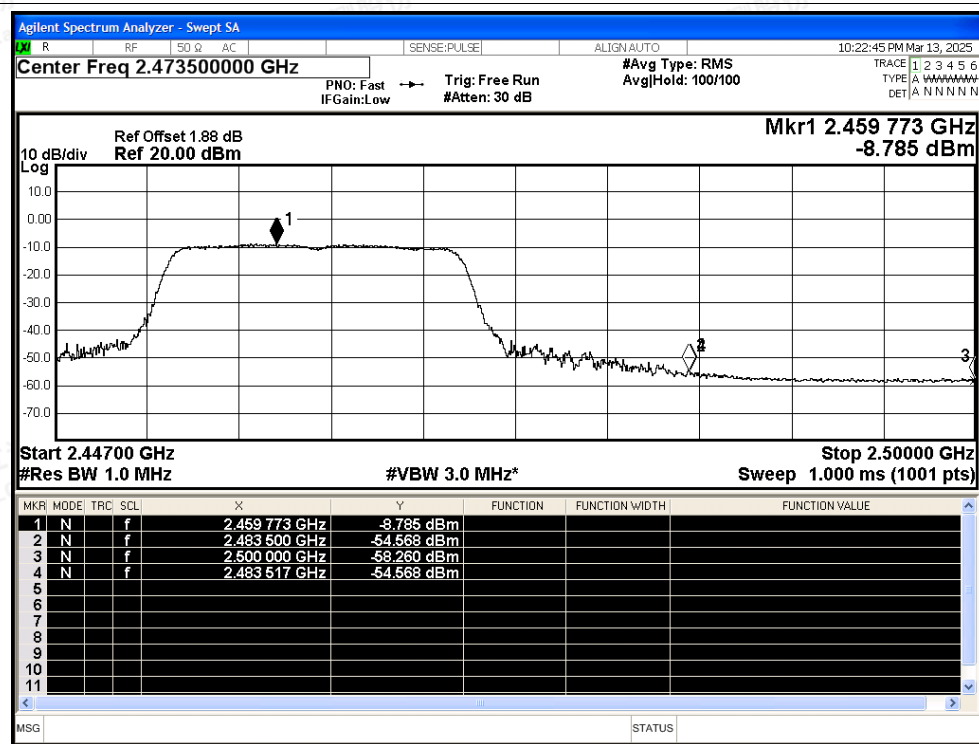
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## Restrict Band NVNT g 2462MHz Ant1 Peak



## Restrict Band NVNT g 2462MHz Ant1 Average



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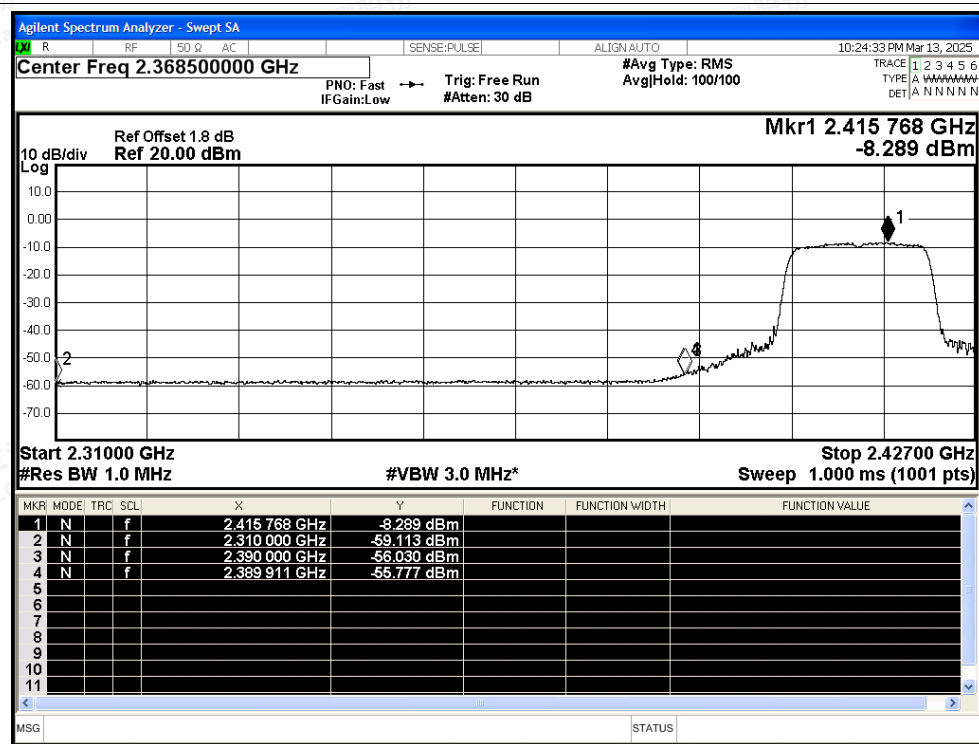
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## Restrict Band NVNT n20 2412MHz Ant1 Peak



## Restrict Band NVNT n20 2412MHz Ant1 Average



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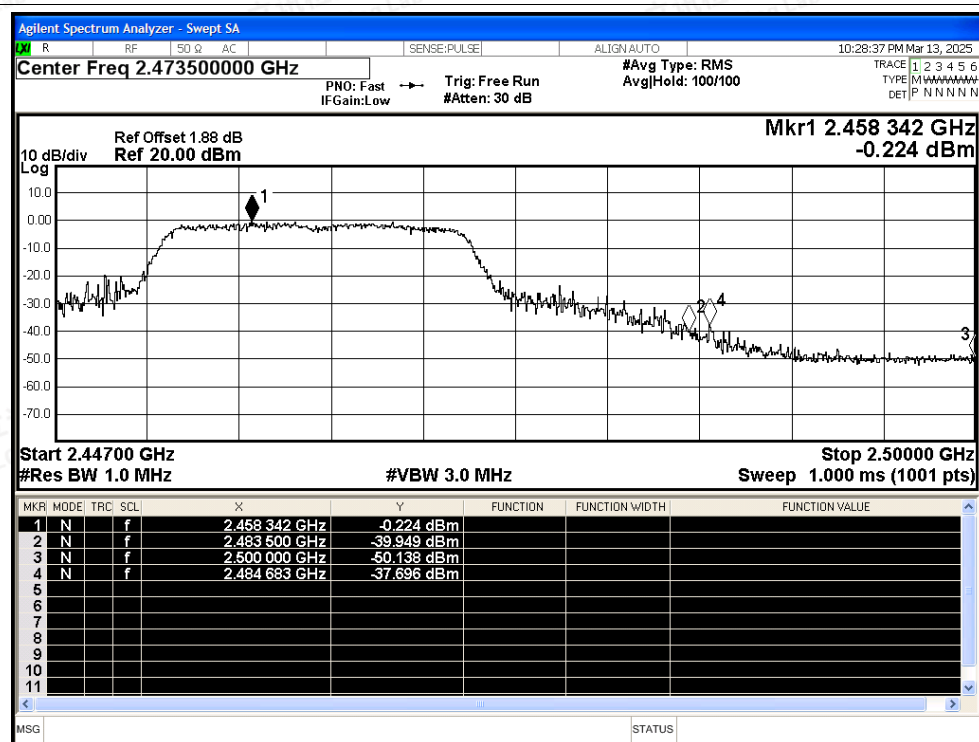
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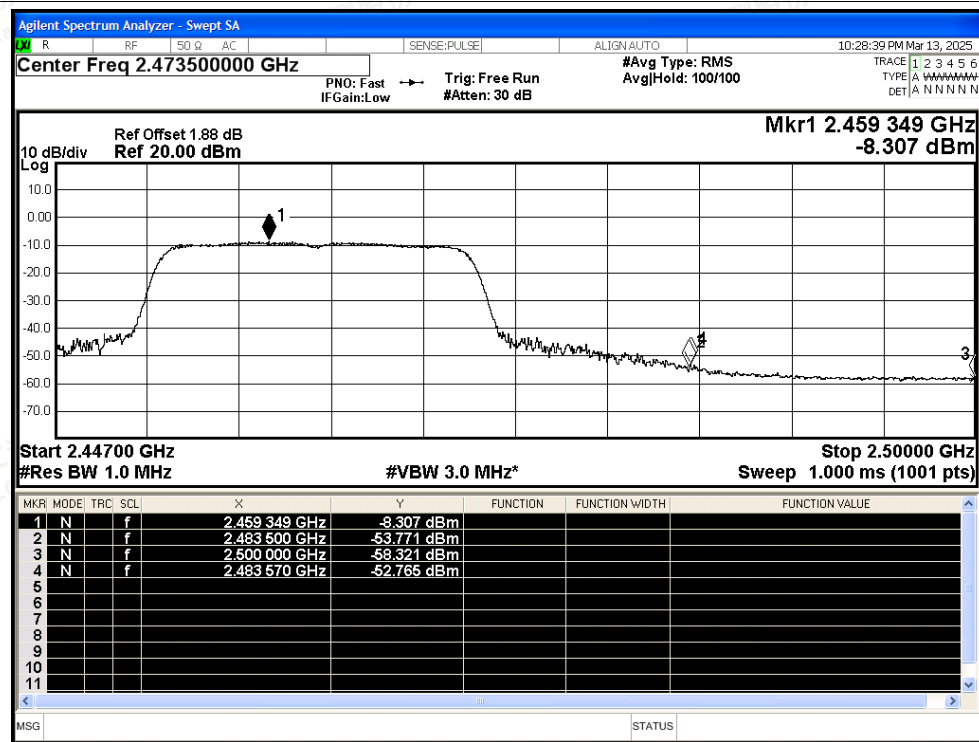
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## Restrict Band NVNT n20 2462MHz Ant1 Peak



## Restrict Band NVNT n20 2462MHz Ant1 Average



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