



## Appendix B

### RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Smart Garage Door Opener

Test Model: Remootio 3

#### Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 23.8 ° C  |
| Relative Humidity: | 52.0%     |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Nick Peng |
| Supervised by:     | Li Huan   |





## B.1 6dB Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | 6 dB Bandwidth (MHz) | Limit 6 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|----------------------|----------------------------|---------|
| NVNT      | b    | 2412            | Ant1    | 9.047                | $\geq 0.5$                 | Pass    |
| NVNT      | b    | 2437            | Ant1    | 9.157                | $\geq 0.5$                 | Pass    |
| NVNT      | b    | 2462            | Ant1    | 9.501                | $\geq 0.5$                 | Pass    |
| NVNT      | g    | 2412            | Ant1    | 13.791               | $\geq 0.5$                 | Pass    |
| NVNT      | g    | 2437            | Ant1    | 15.684               | $\geq 0.5$                 | Pass    |
| NVNT      | g    | 2462            | Ant1    | 15.735               | $\geq 0.5$                 | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 12.506               | $\geq 0.5$                 | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 16.458               | $\geq 0.5$                 | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 12.288               | $\geq 0.5$                 | Pass    |



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## Test Graphs

6dB Bandwidth NVNT b 2412MHz Ant1



6dB Bandwidth NVNT b 2437MHz Ant1



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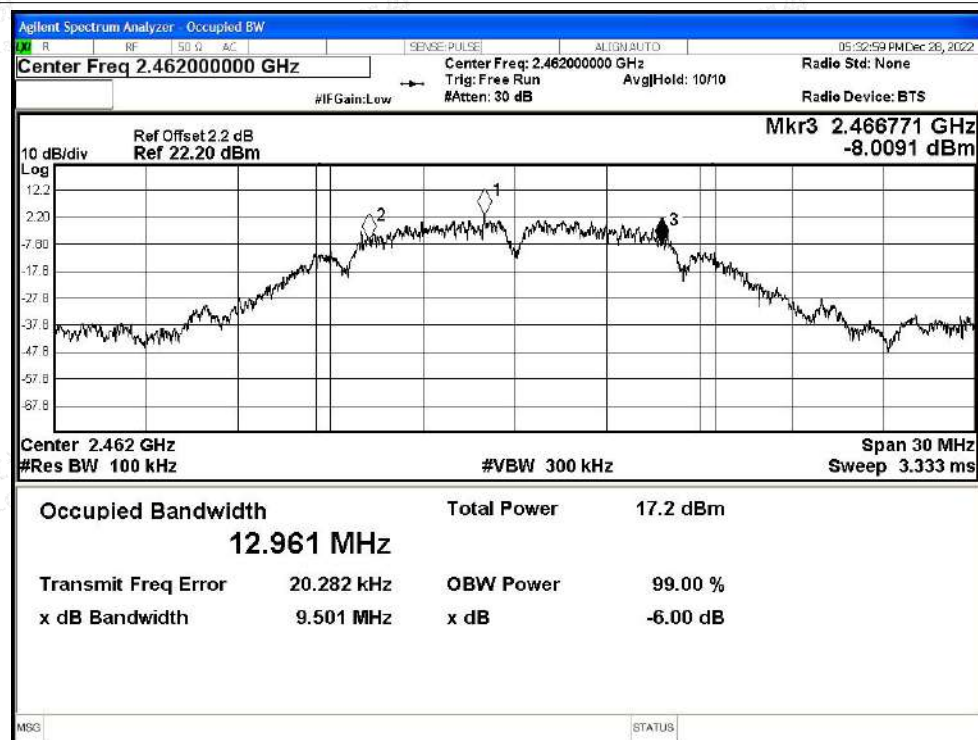
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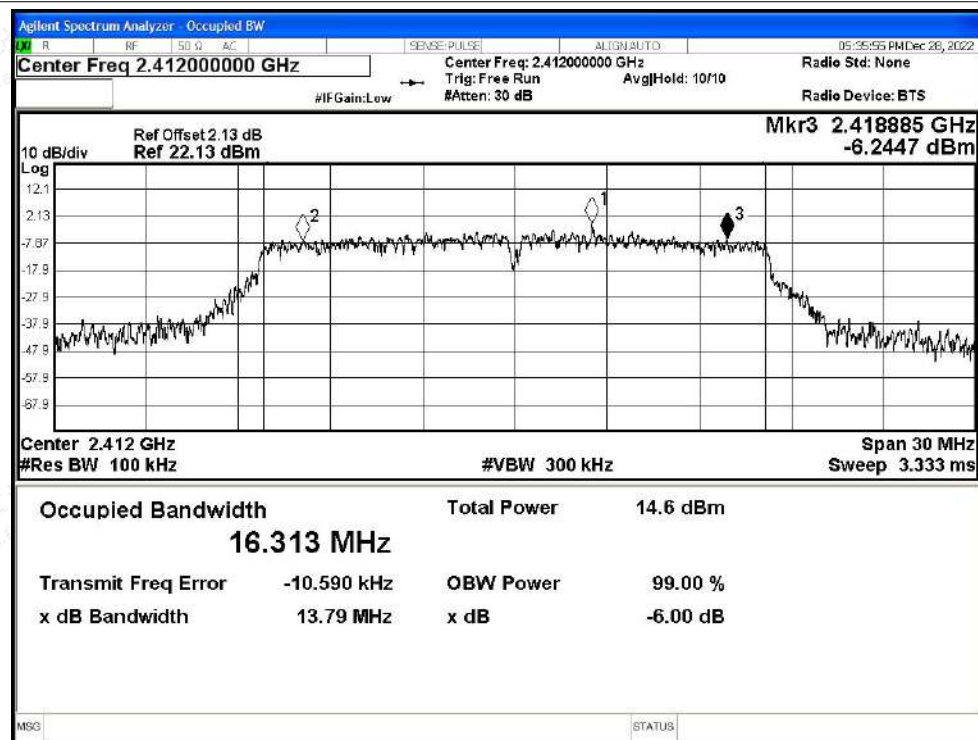
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## 6dB Bandwidth NVNT b 2462MHz Ant1



## 6dB Bandwidth NVNT g 2412MHz Ant1



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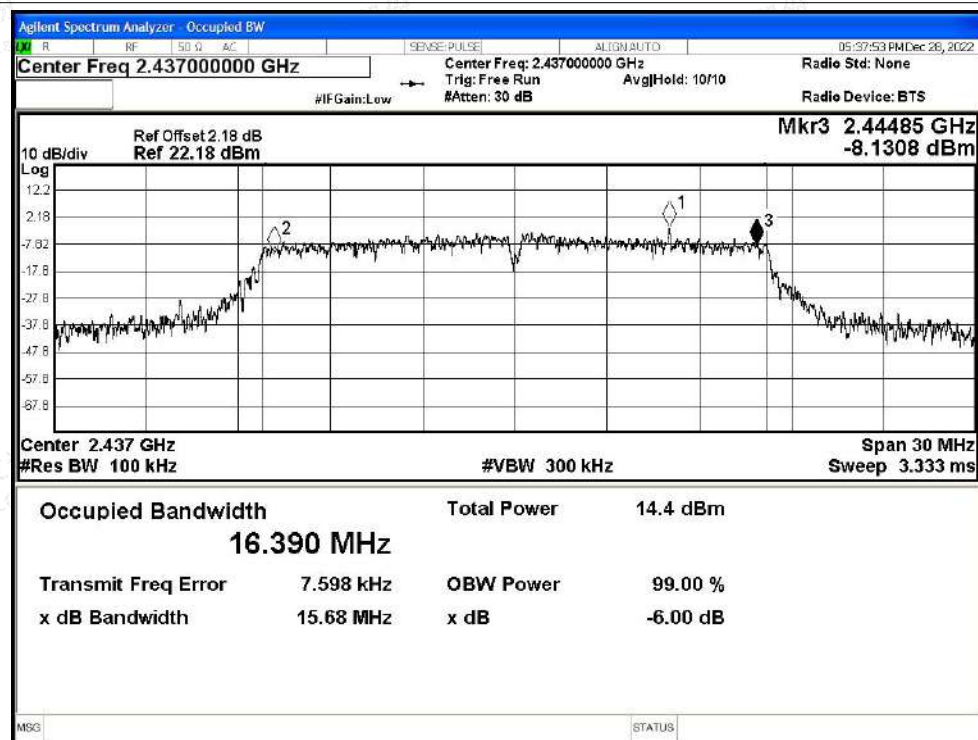
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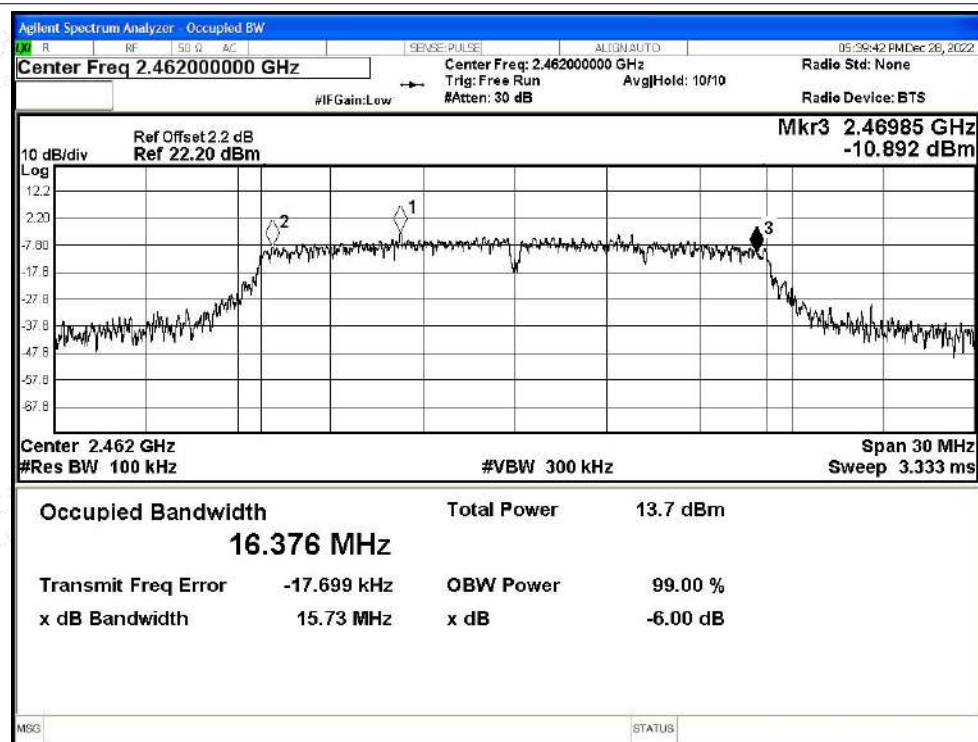
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## 6dB Bandwidth NVNT g 2437MHz Ant1



## 6dB Bandwidth NVNT g 2462MHz Ant1



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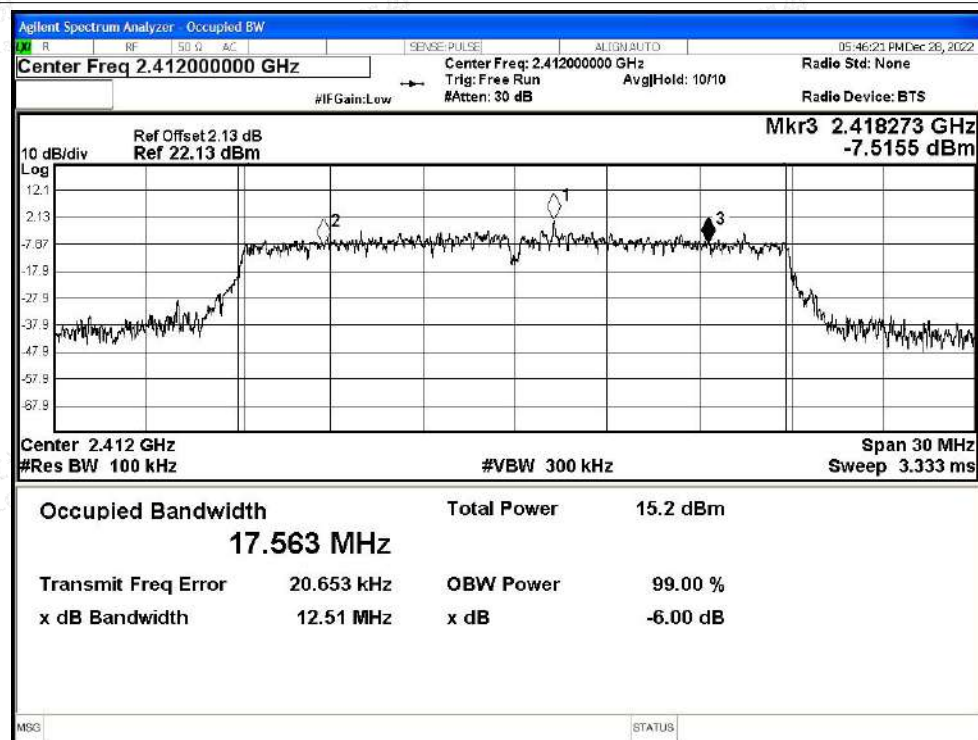
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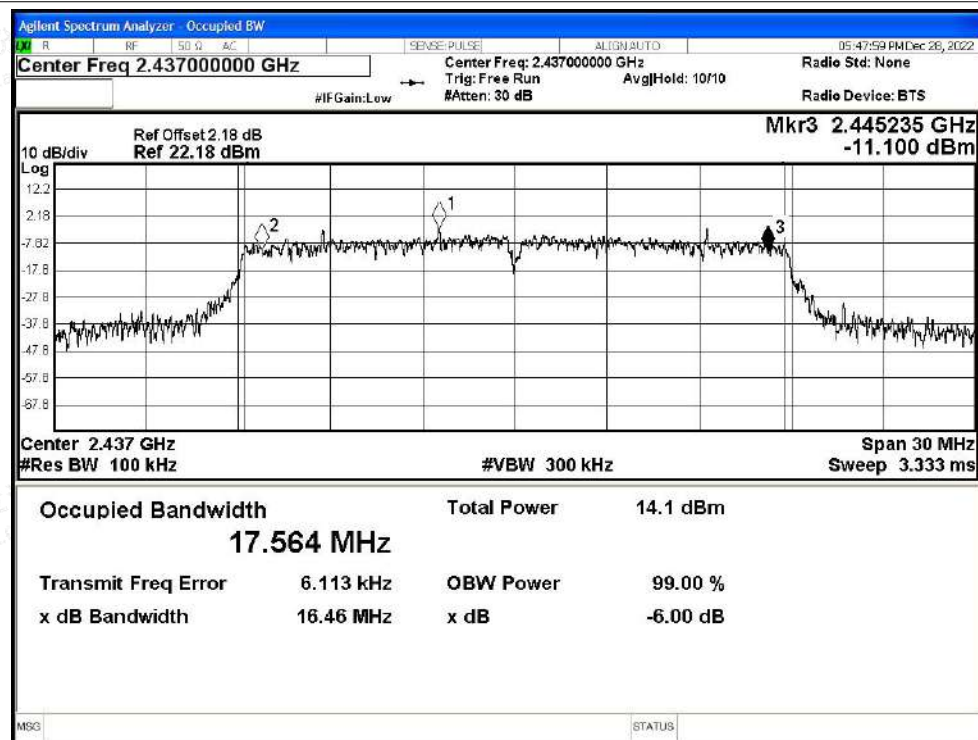




## 6dB Bandwidth NVNT n20 2412MHz Ant1



## 6dB Bandwidth NVNT n20 2437MHz Ant1

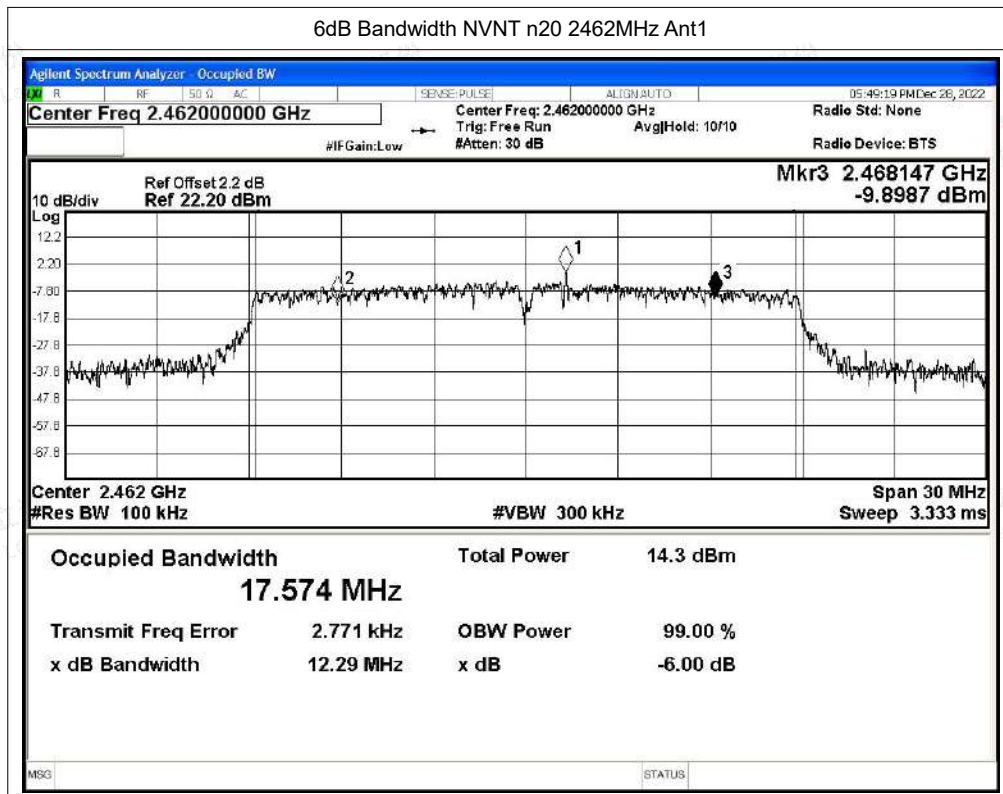


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## B.2 Maximum Conducted Output Power

| Condition | Mode | Frequency (MHz) | Antenna | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-------------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | 14.84             | 30          | Pass    |
| NVNT      | b    | 2437            | Ant1    | 15.24             | 30          | Pass    |
| NVNT      | b    | 2462            | Ant1    | 14.36             | 30          | Pass    |
| NVNT      | g    | 2412            | Ant1    | 13.43             | 30          | Pass    |
| NVNT      | g    | 2437            | Ant1    | 13.21             | 30          | Pass    |
| NVNT      | g    | 2462            | Ant1    | 13.42             | 30          | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 13.46             | 30          | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 12.81             | 30          | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 13.85             | 30          | Pass    |



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### B.3 Maximum Power Spectral Density Level

| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|-----------|------|-----------------|---------|--------------------------|------------------|---------|
| NVNT      | b    | 2412            | Ant1    | -7.67                    | 8                | Pass    |
| NVNT      | b    | 2437            | Ant1    | -9.22                    | 8                | Pass    |
| NVNT      | b    | 2462            | Ant1    | -9.81                    | 8                | Pass    |
| NVNT      | g    | 2412            | Ant1    | -14.68                   | 8                | Pass    |
| NVNT      | g    | 2437            | Ant1    | -14.57                   | 8                | Pass    |
| NVNT      | g    | 2462            | Ant1    | -13.37                   | 8                | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -15.26                   | 8                | Pass    |
| NVNT      | n20  | 2437            | Ant1    | -13.41                   | 8                | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -15.66                   | 8                | Pass    |



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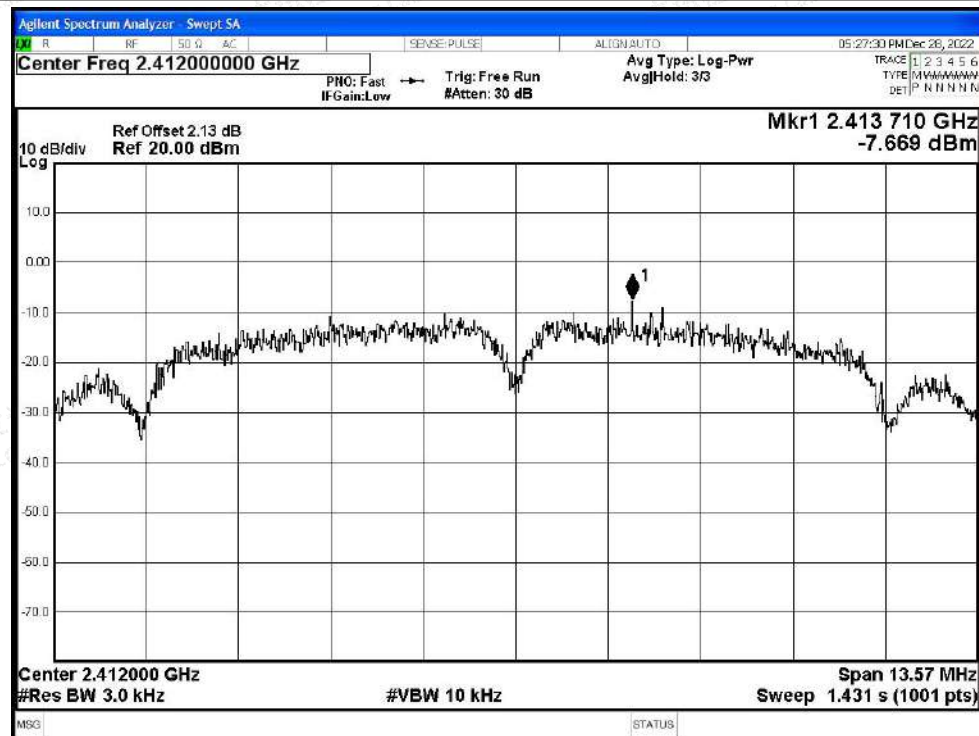
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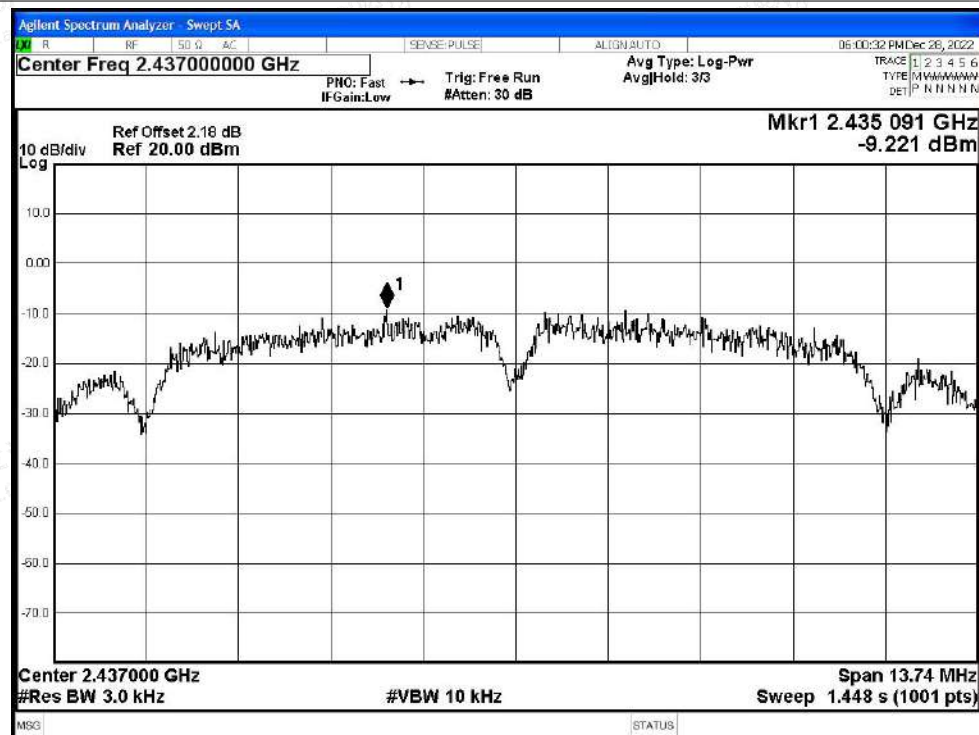


## Test Graphs

PSD NVNT b 2412MHz Ant1



PSD NVNT b 2437MHz Ant1



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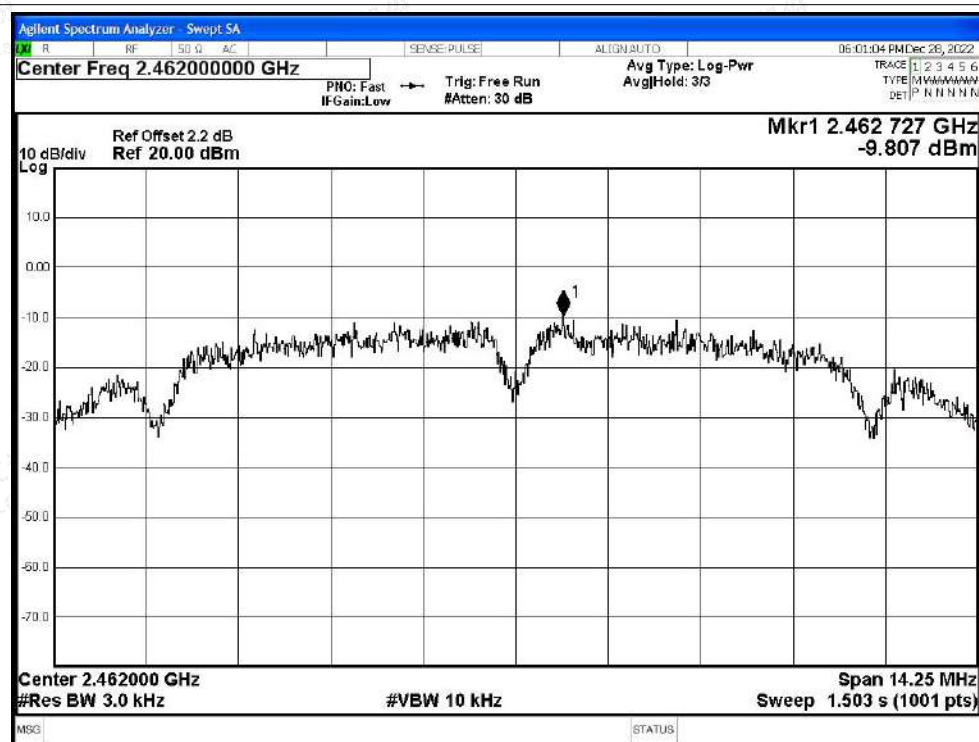
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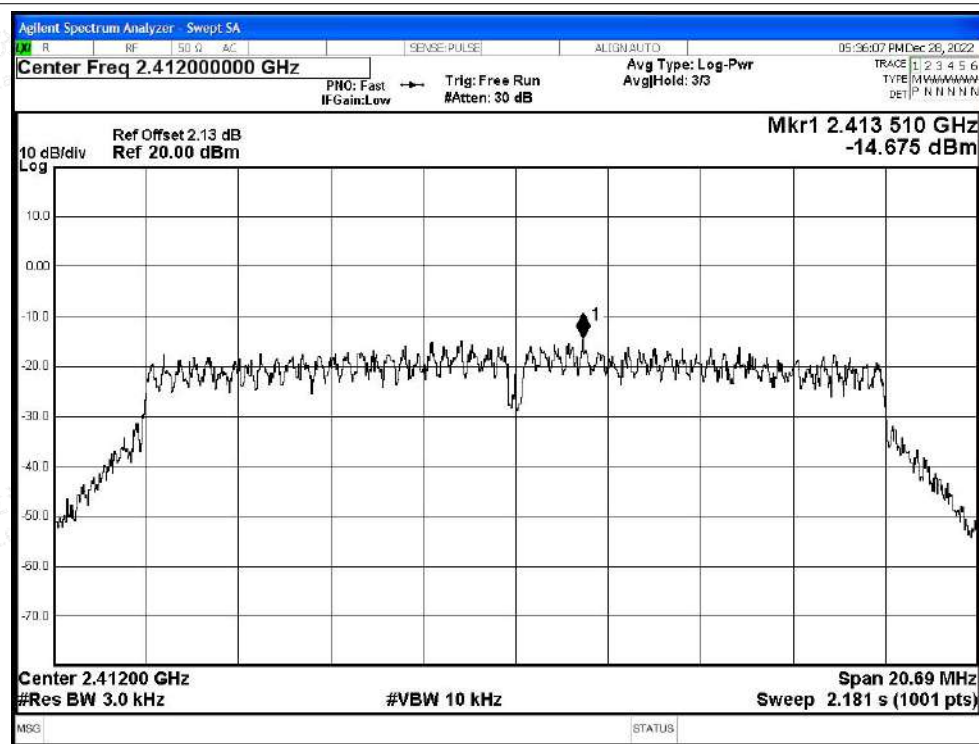
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PSD NVNT b 2462MHz Ant1



PSD NVNT g 2412MHz Ant1



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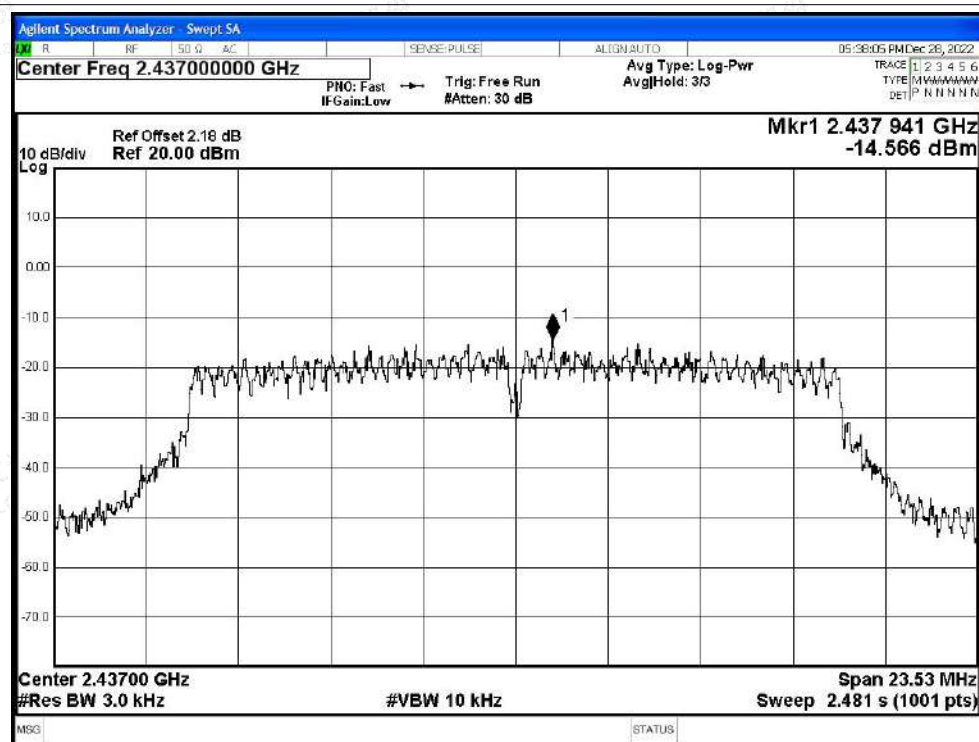
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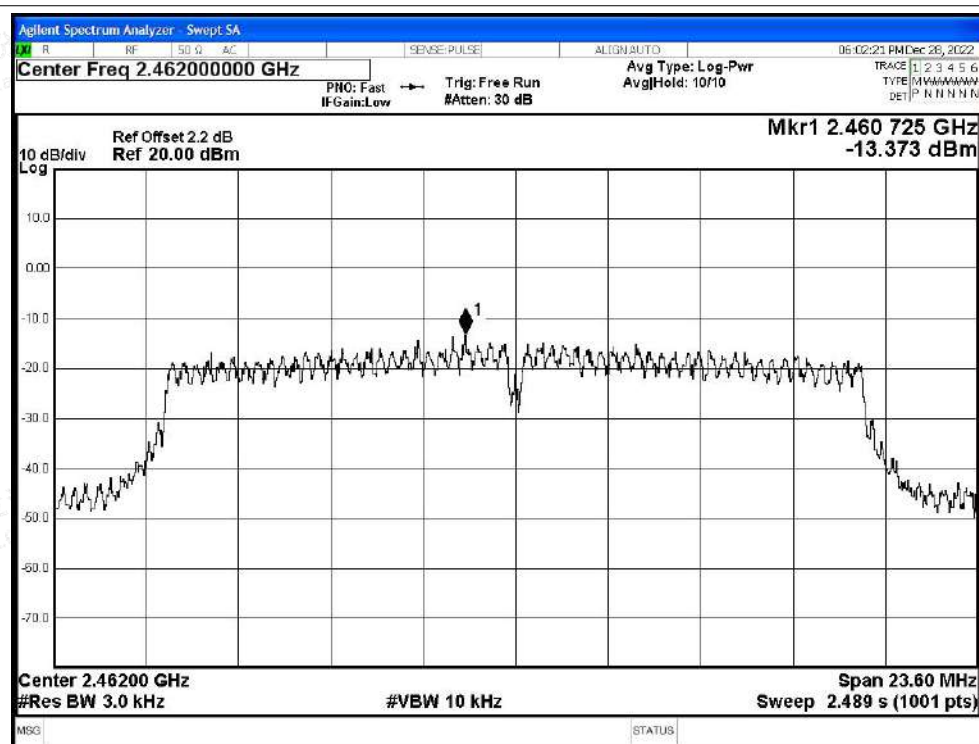
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PSD NVNT g 2437MHz Ant1



PSD NVNT g 2462MHz Ant1

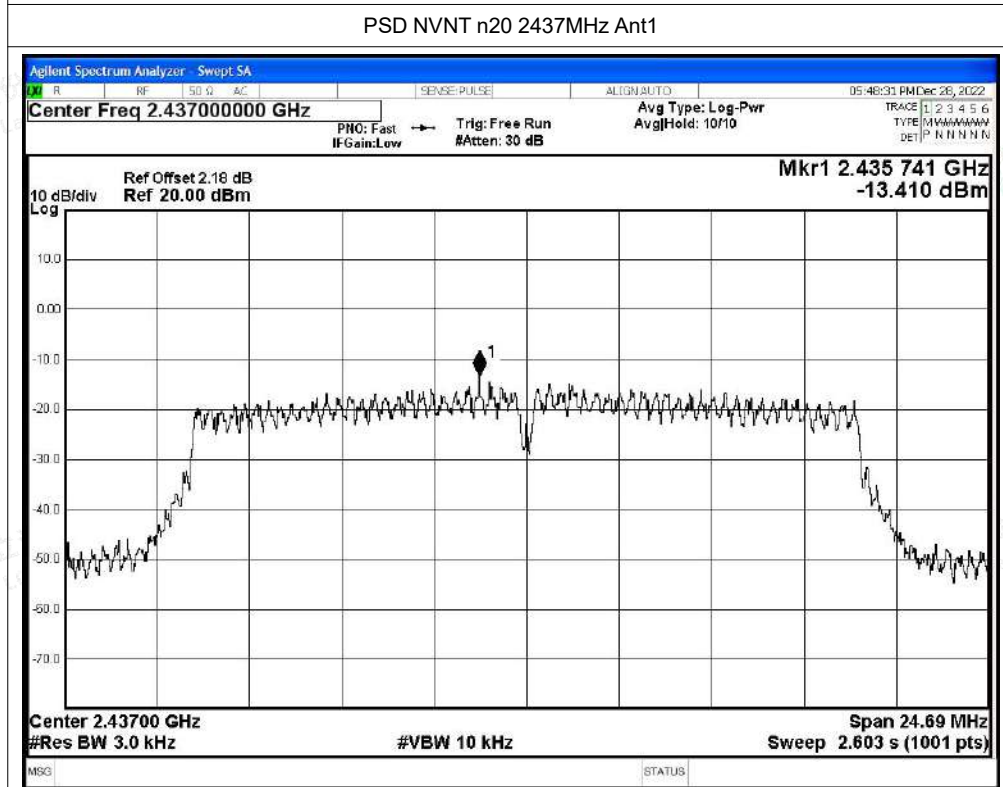
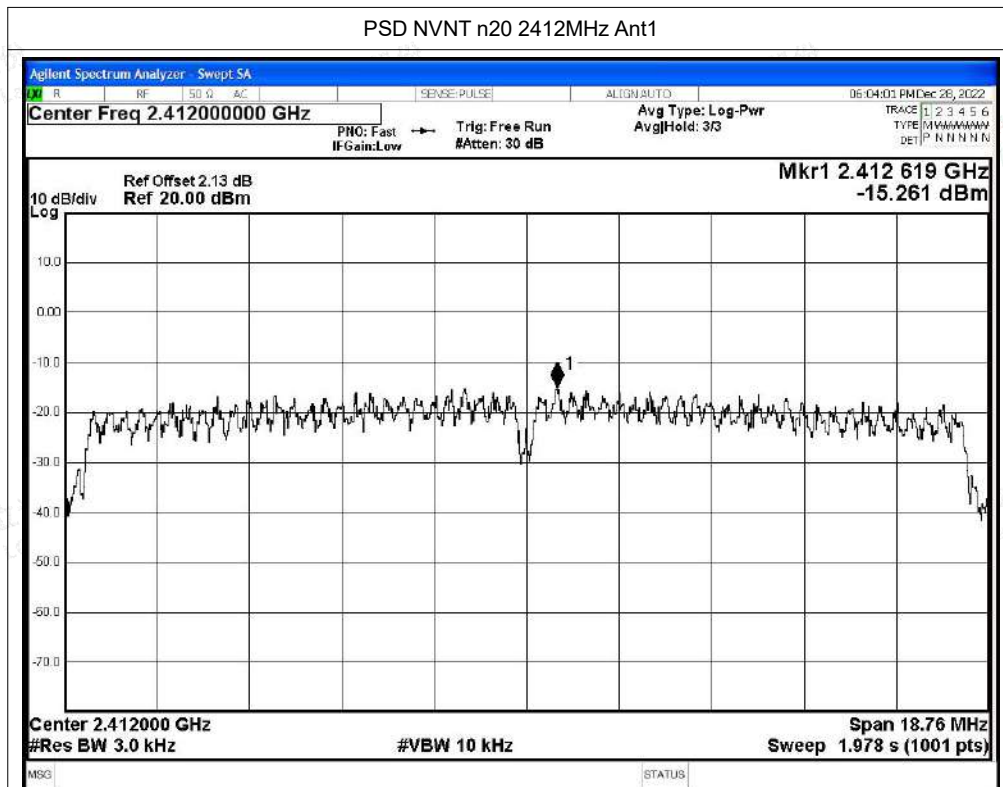


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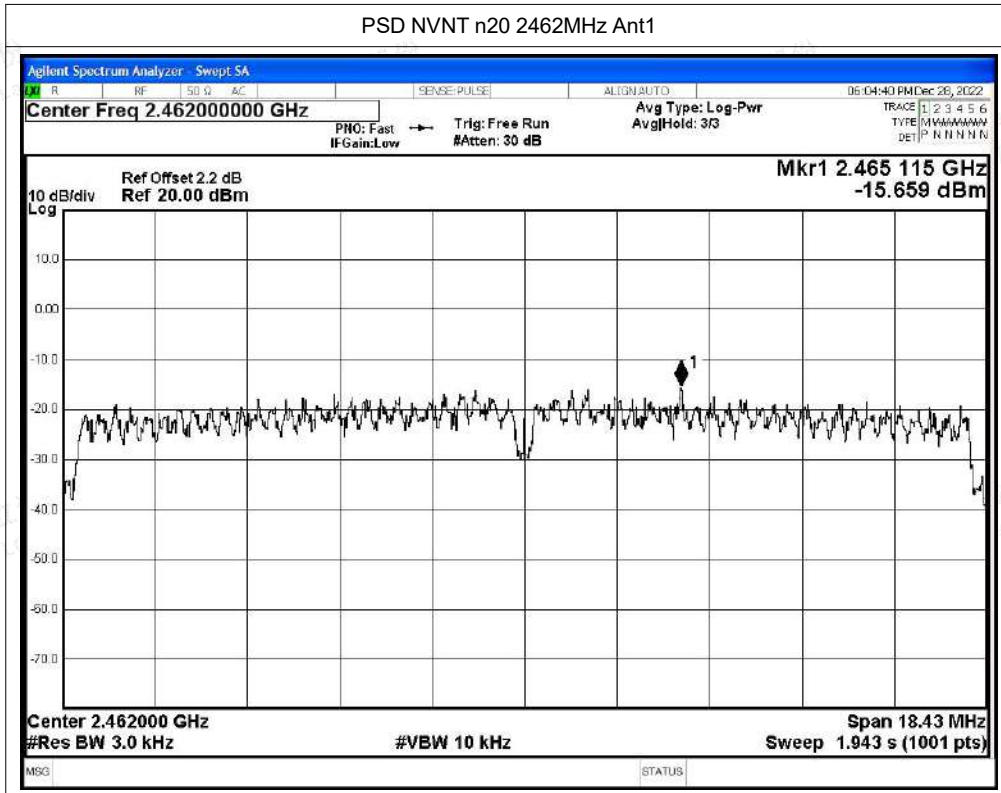
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## B.4 Band Edge

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | -45.49          | -20         | Pass    |
| NVNT      | b    | 2462            | Ant1    | -56.17          | -20         | Pass    |
| NVNT      | g    | 2412            | Ant1    | -38.29          | -20         | Pass    |
| NVNT      | g    | 2462            | Ant1    | -46.4           | -20         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -36.06          | -20         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -43.95          | -20         | Pass    |



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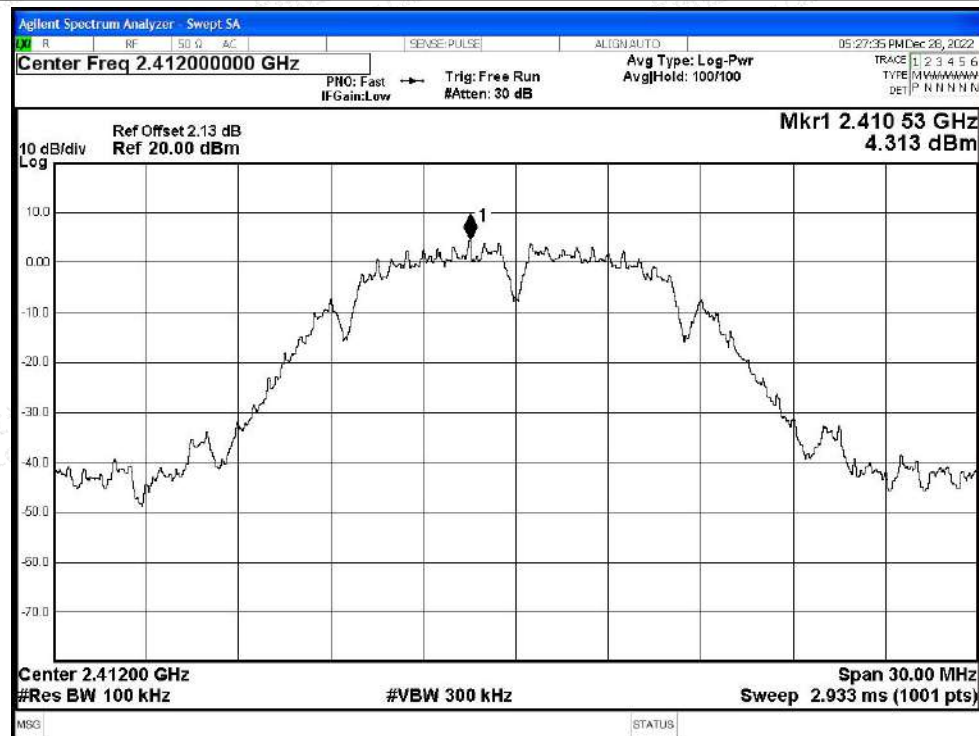
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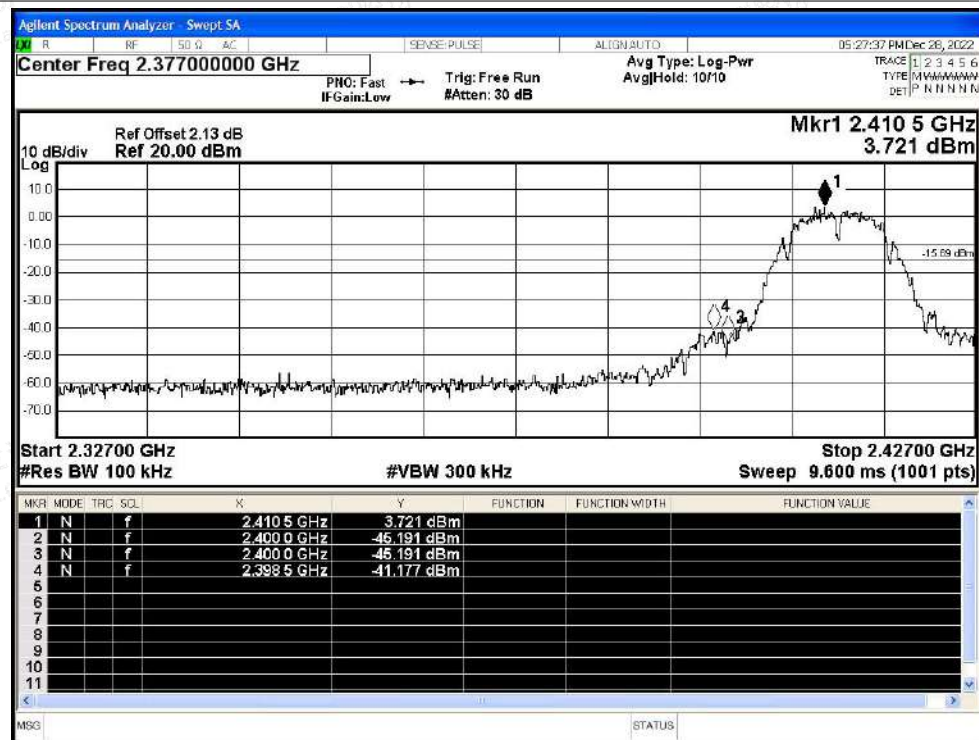


## Test Graphs

## Band Edge NVNT b 2412MHz Ant1 Ref



## Band Edge NVNT b 2412MHz Ant1 Emission



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## Band Edge NVNT b 2462MHz Ant1 Ref



## Band Edge NVNT b 2462MHz Ant1 Emission



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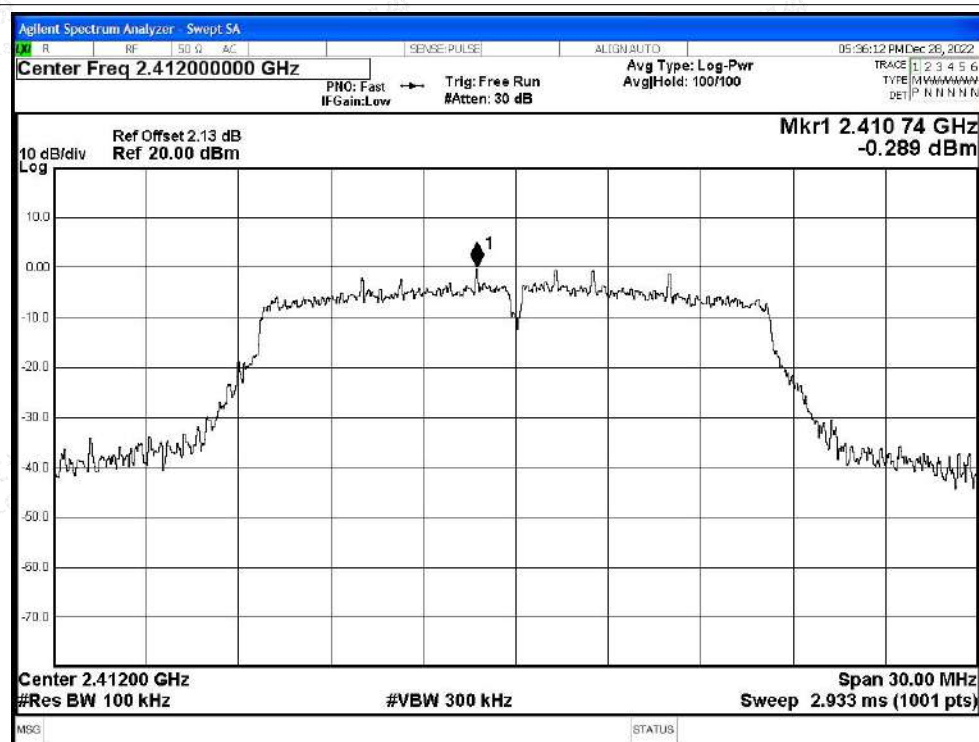
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## Band Edge NVNT g 2412MHz Ant1 Ref



## Band Edge NVNT g 2412MHz Ant1 Emission



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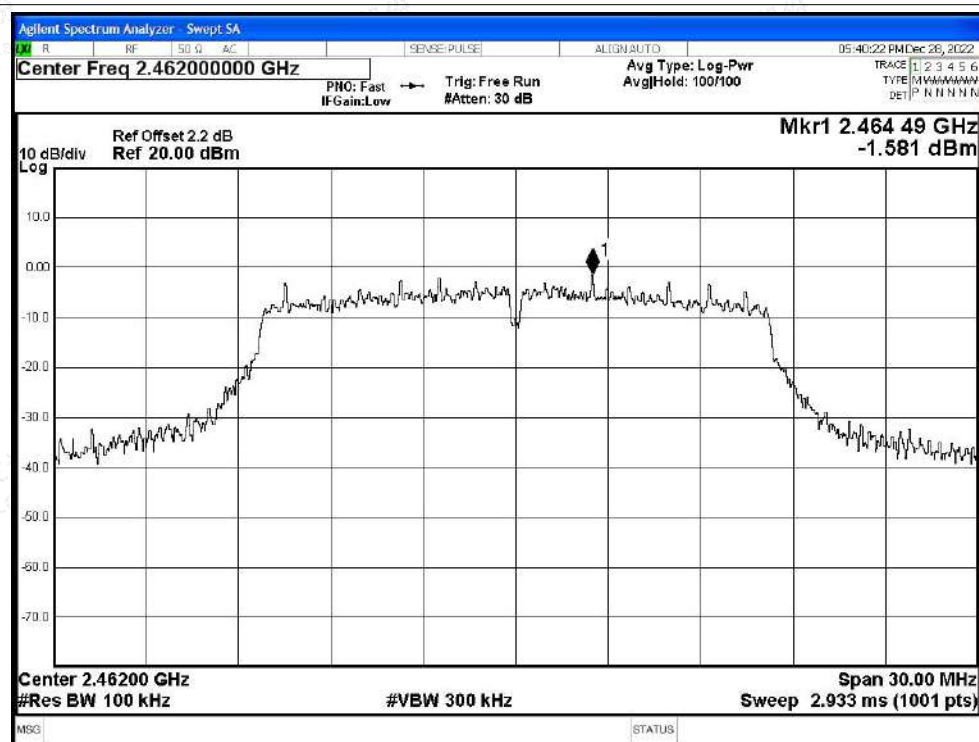
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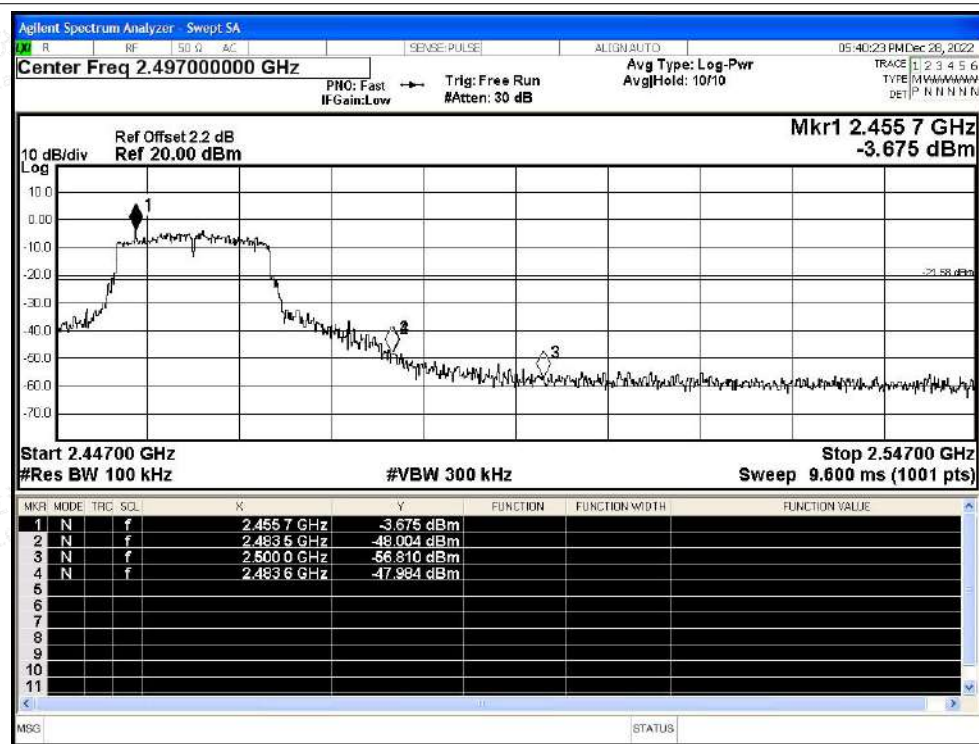




## Band Edge NVNT g 2462MHz Ant1 Ref



## Band Edge NVNT g 2462MHz Ant1 Emission



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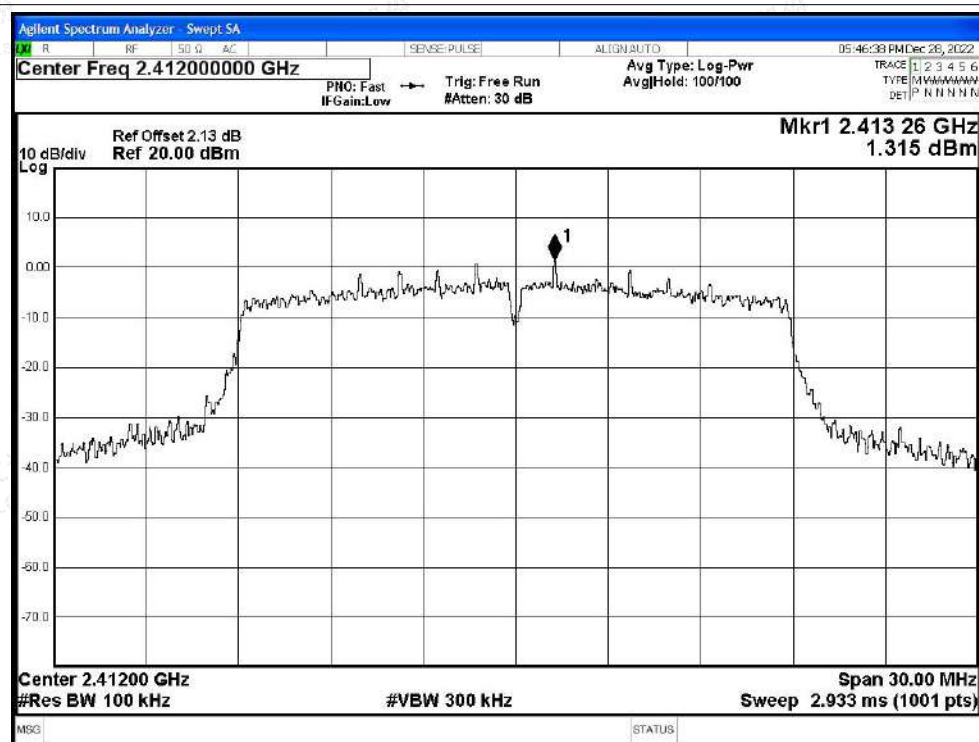
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## Band Edge NVNT n20 2412MHz Ant1 Ref



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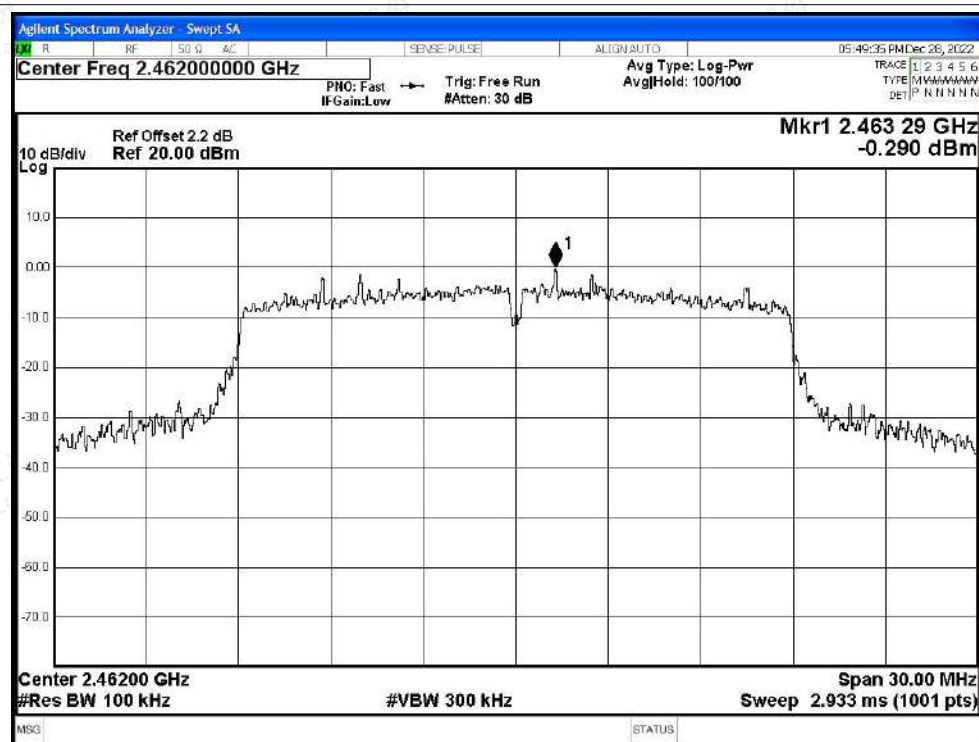
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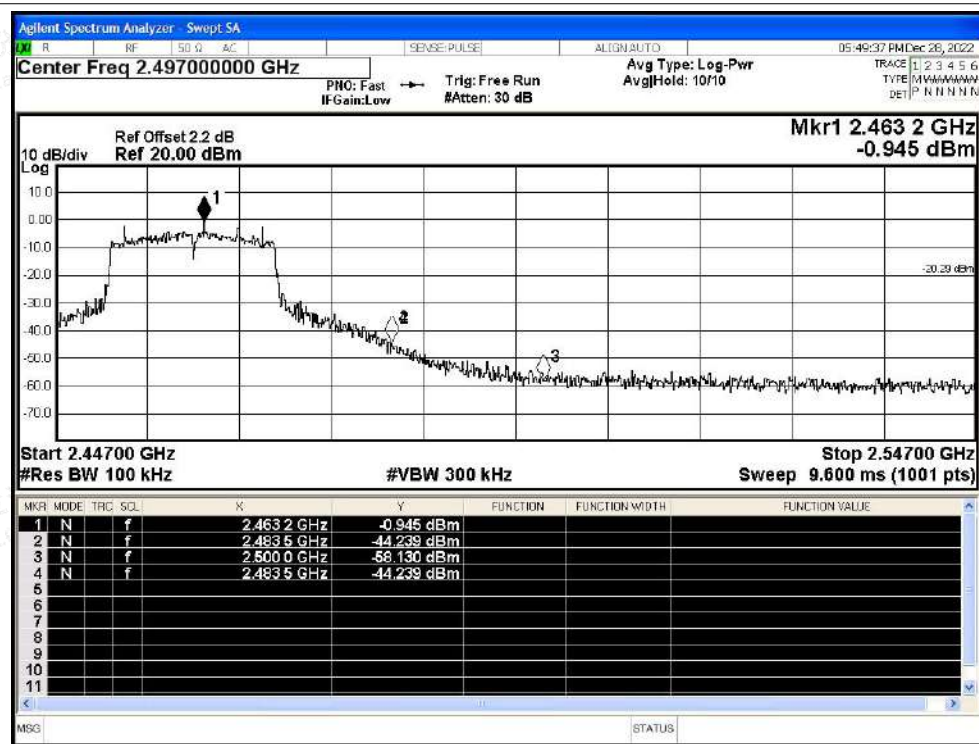
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## Band Edge NVNT n20 2462MHz Ant1 Ref



## Band Edge NVNT n20 2462MHz Ant1 Emission



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## B.5 Conducted RF Spurious Emission

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | -49.09          | -20         | Pass    |
| NVNT      | b    | 2437            | Ant1    | -49.38          | -20         | Pass    |
| NVNT      | b    | 2462            | Ant1    | -48.28          | -20         | Pass    |
| NVNT      | g    | 2412            | Ant1    | -42.87          | -20         | Pass    |
| NVNT      | g    | 2437            | Ant1    | -45.41          | -20         | Pass    |
| NVNT      | g    | 2462            | Ant1    | -43.3           | -20         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -46.47          | -20         | Pass    |
| NVNT      | n20  | 2437            | Ant1    | -46.3           | -20         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -46.24          | -20         | Pass    |



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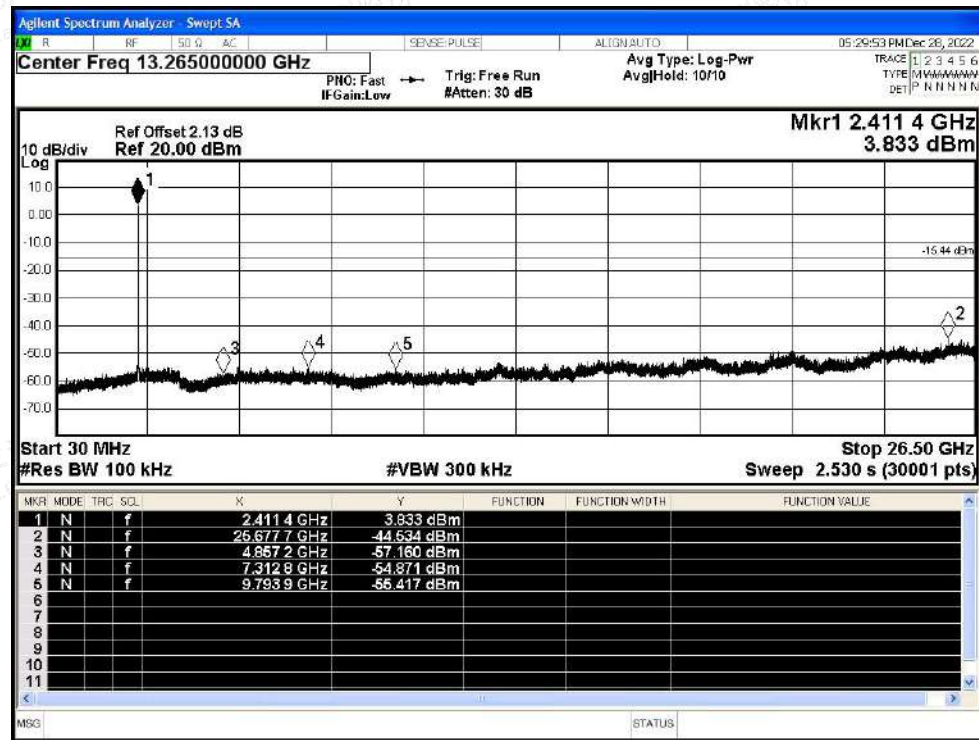


## Test Graphs

## Tx. Spurious NVNT b 2412MHz Ant1 Ref



## Tx. Spurious NVNT b 2412MHz Ant1 Emission



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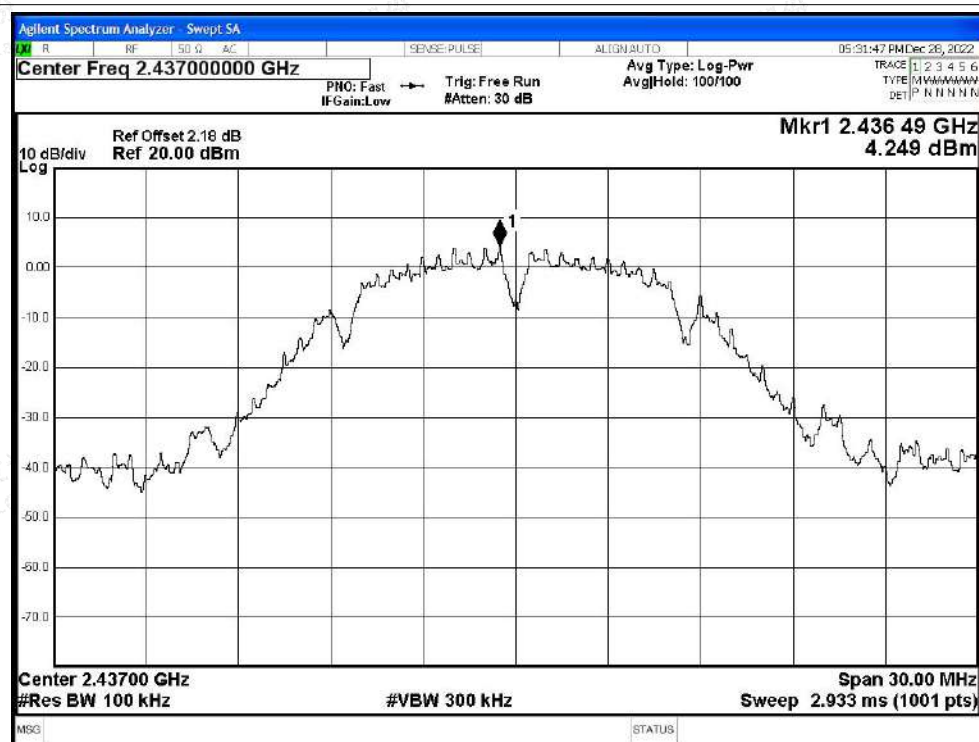
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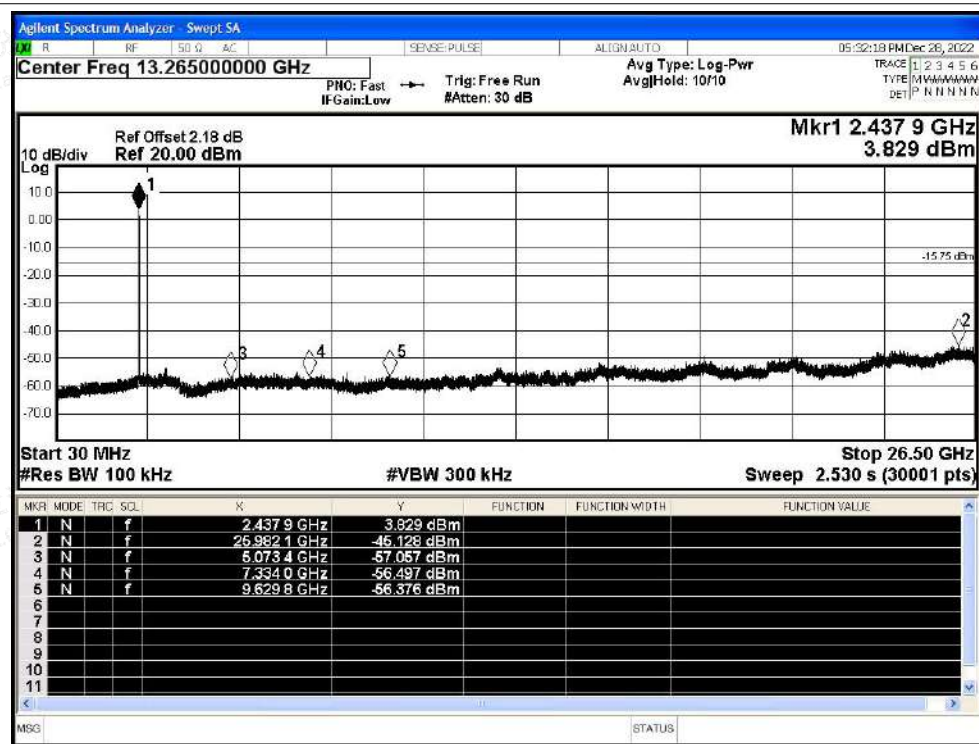




## Tx. Spurious NVNT b 2437MHz Ant1 Ref



## Tx. Spurious NVNT b 2437MHz Ant1 Emission



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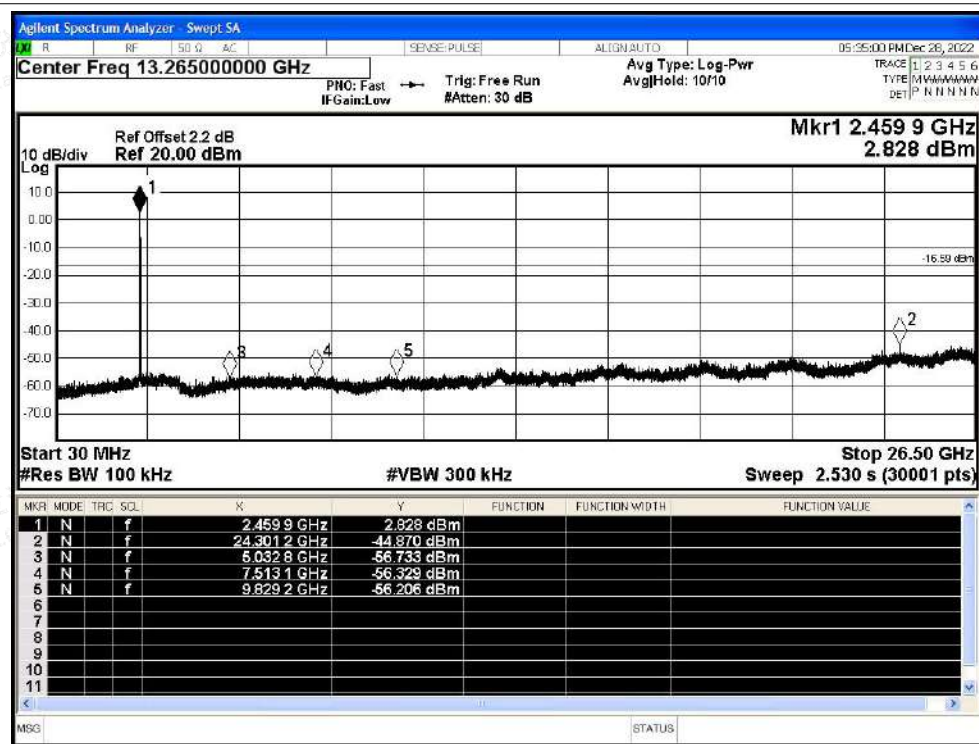
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## Tx. Spurious NVNT b 2462MHz Ant1 Ref



## Tx. Spurious NVNT b 2462MHz Ant1 Emission



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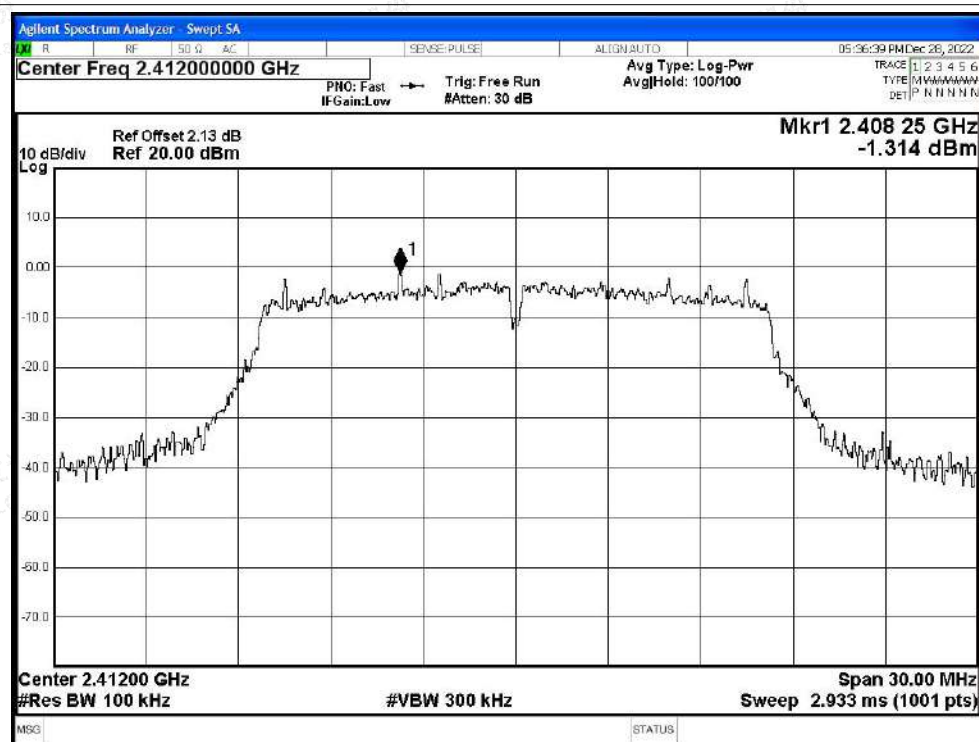
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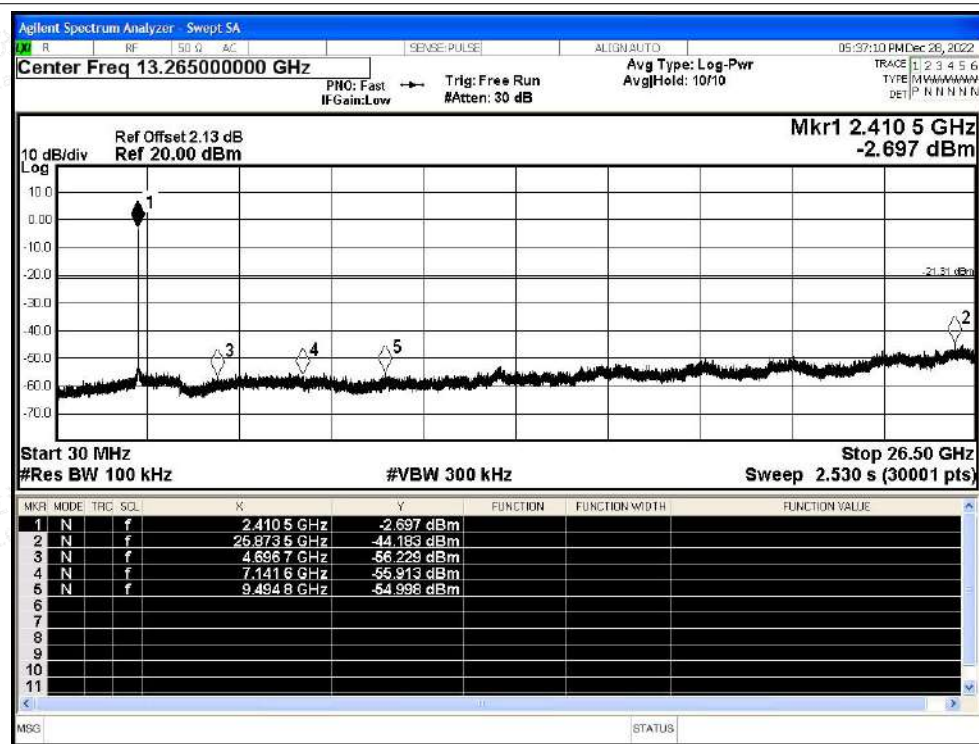
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## Tx. Spurious NVNT g 2412MHz Ant1 Ref



## Tx. Spurious NVNT g 2412MHz Ant1 Emission



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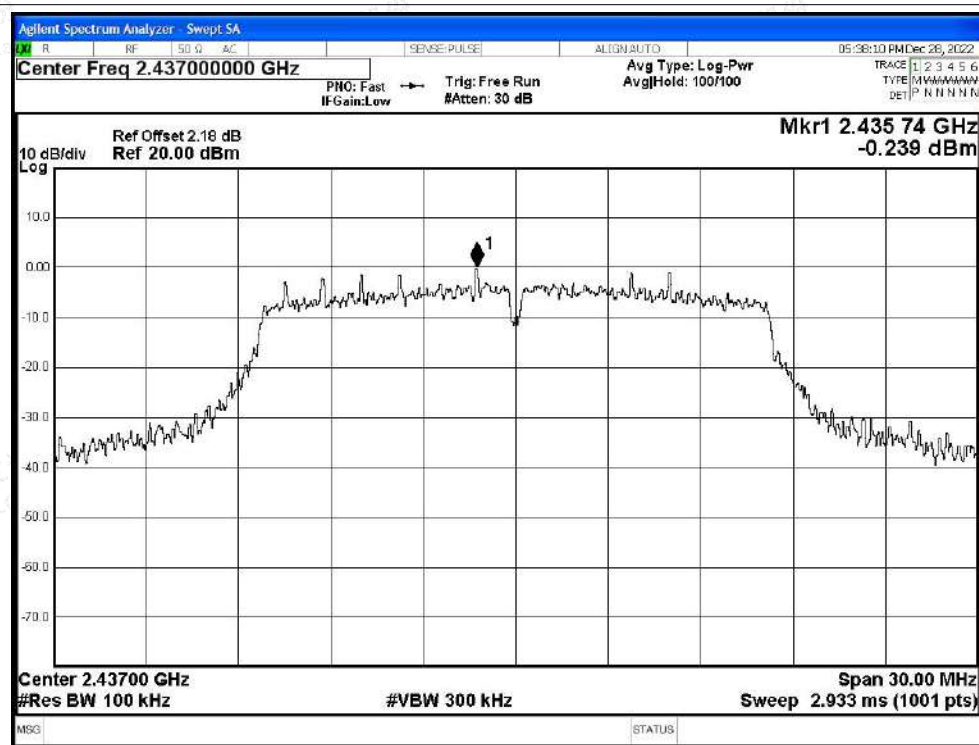
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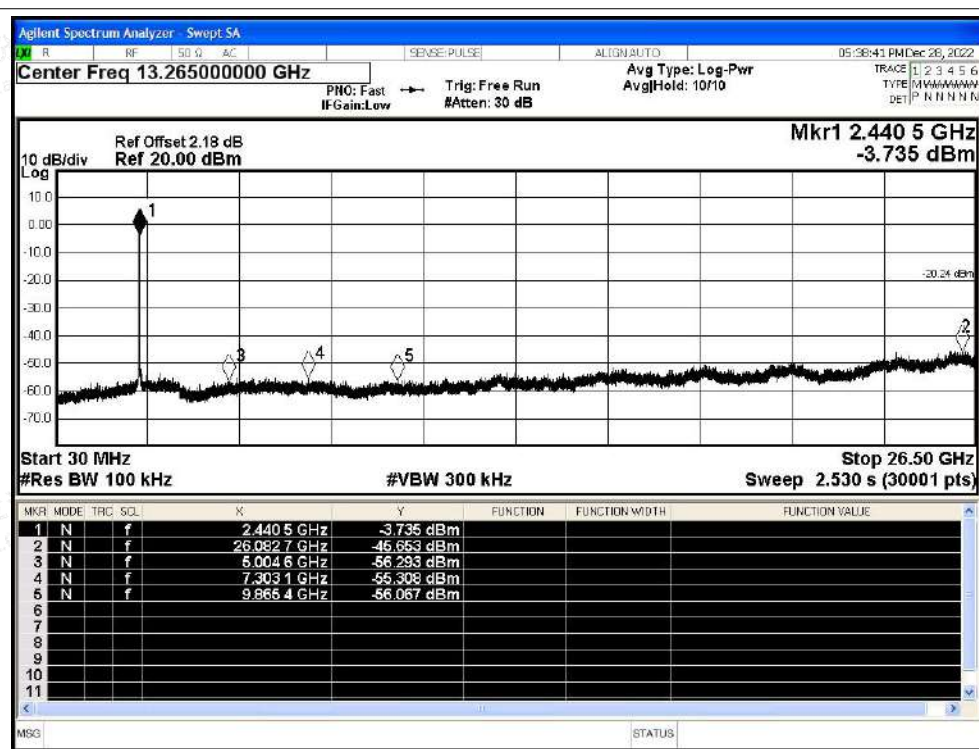
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## Tx. Spurious NVNT g 2437MHz Ant1 Ref



## Tx. Spurious NVNT g 2437MHz Ant1 Emission



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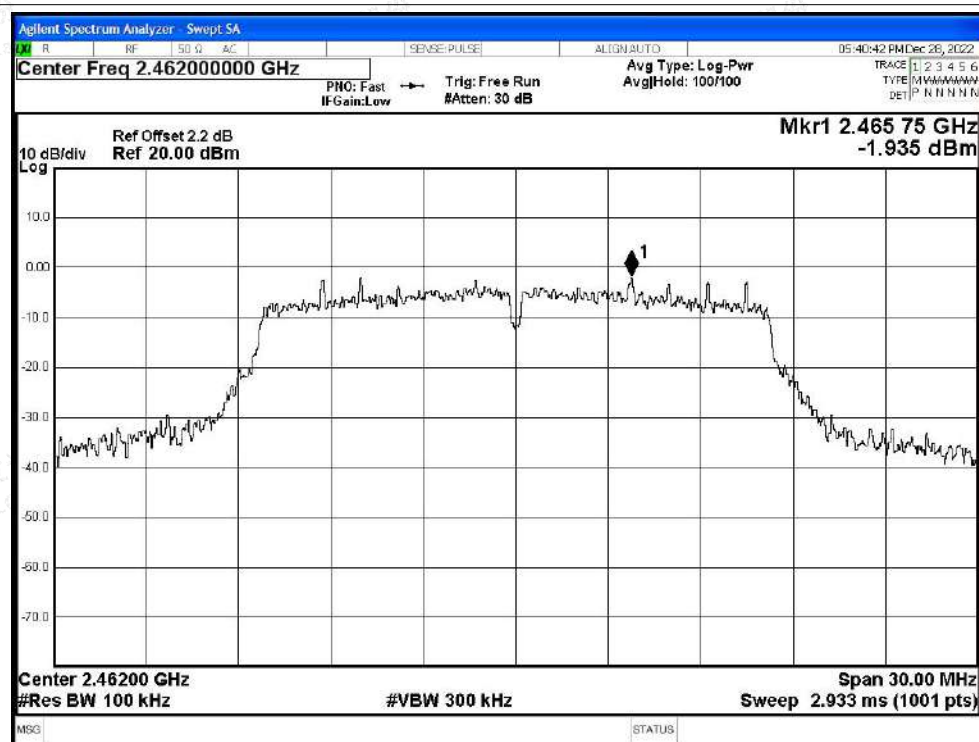
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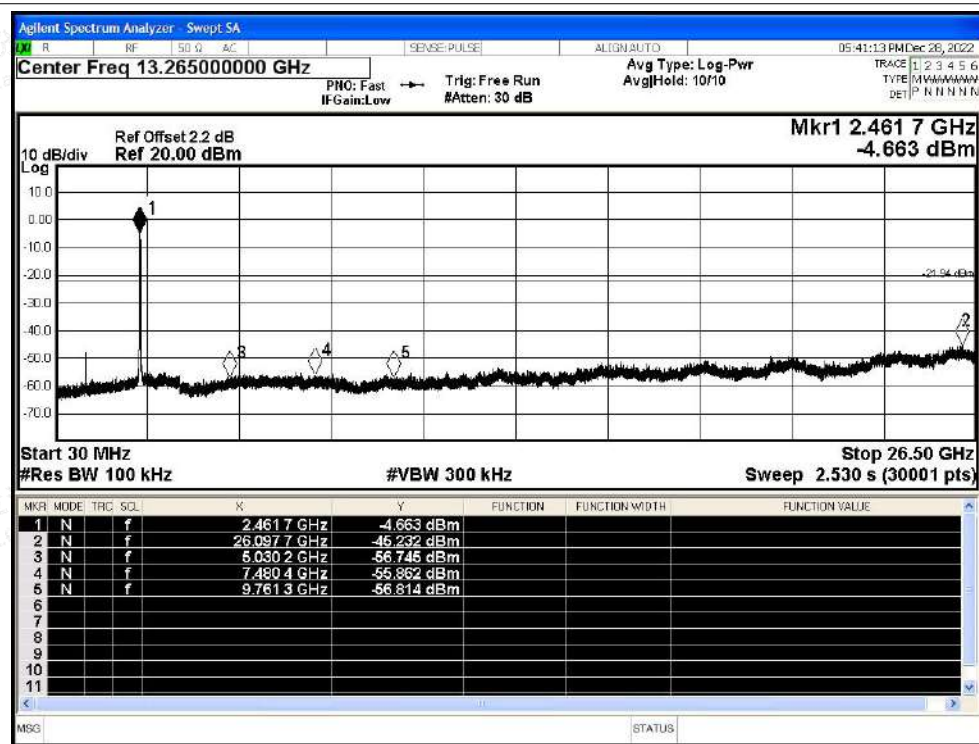




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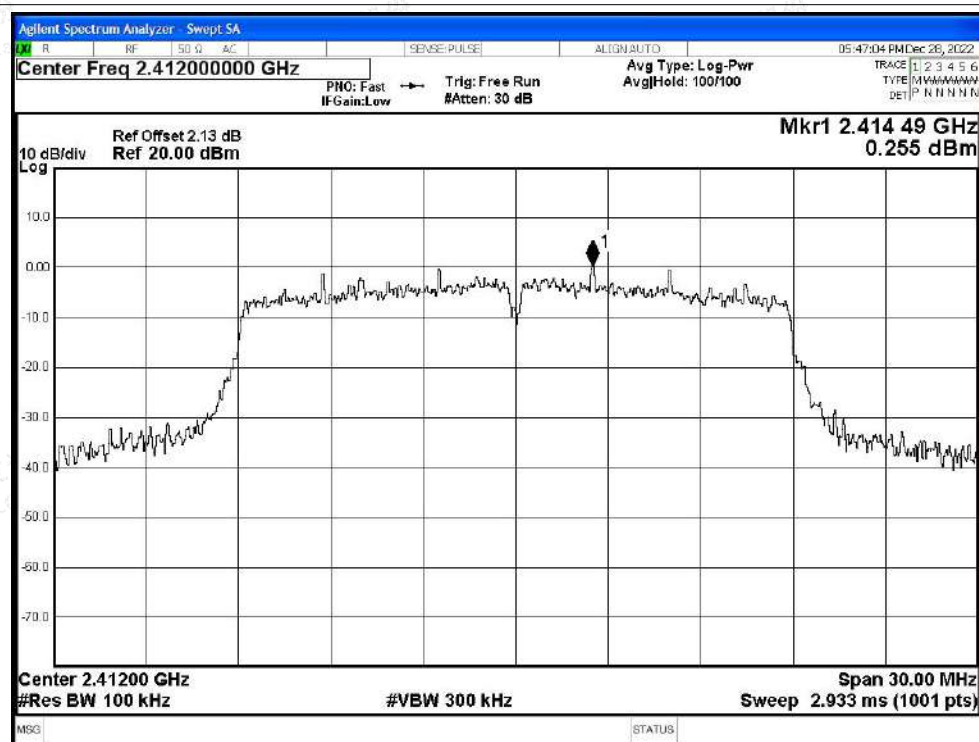
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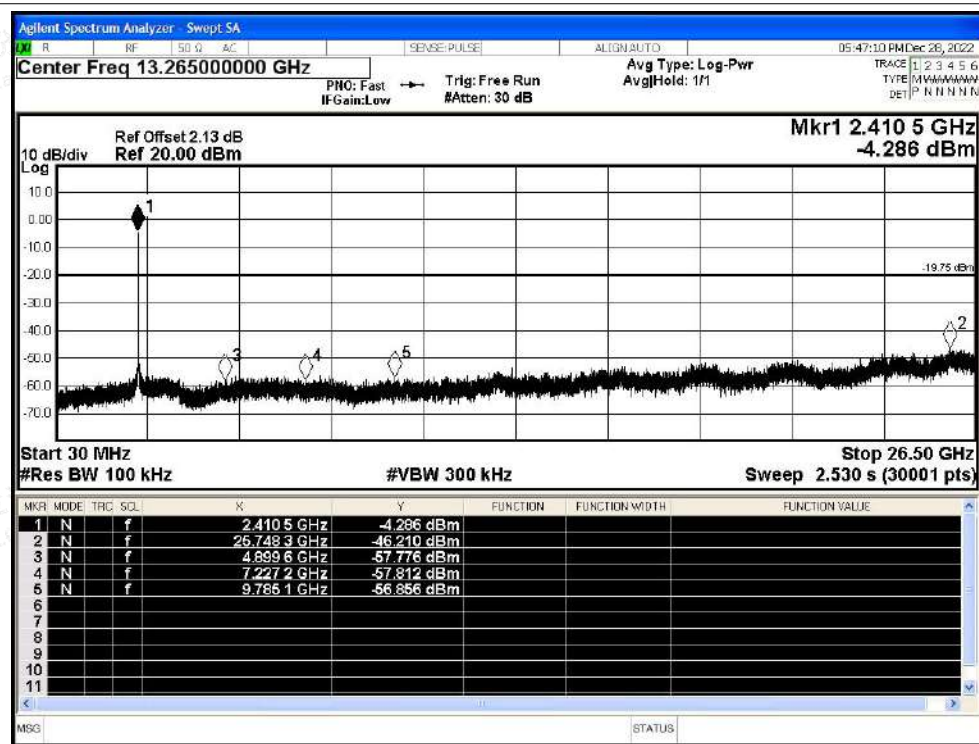




## Tx. Spurious NVNT n20 2412MHz Ant1 Ref



## Tx. Spurious NVNT n20 2412MHz Ant1 Emission



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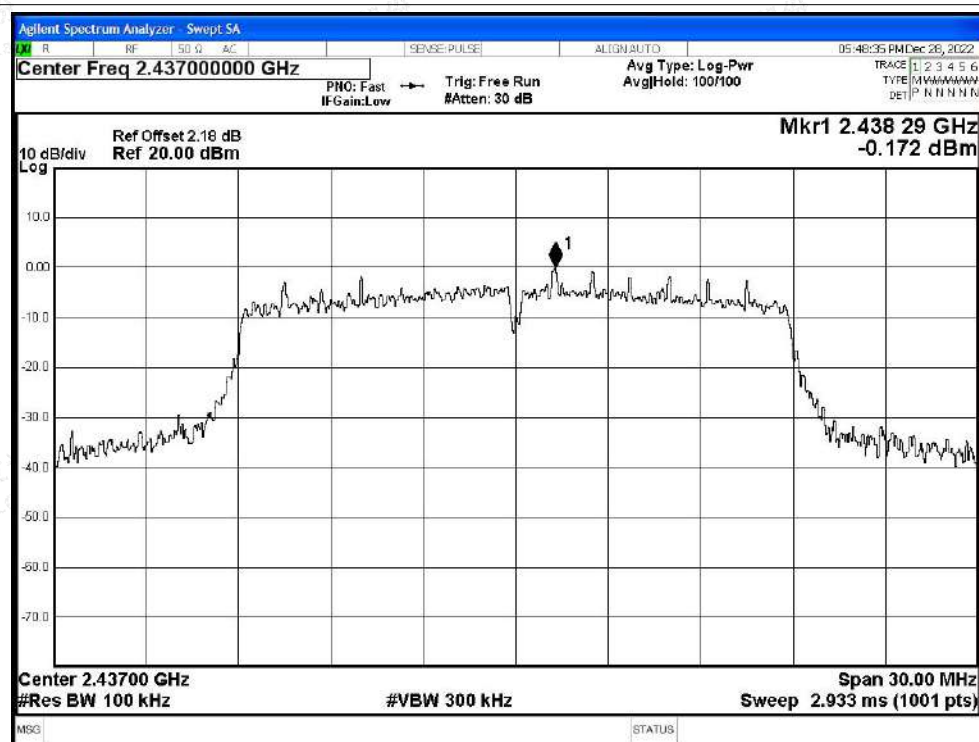
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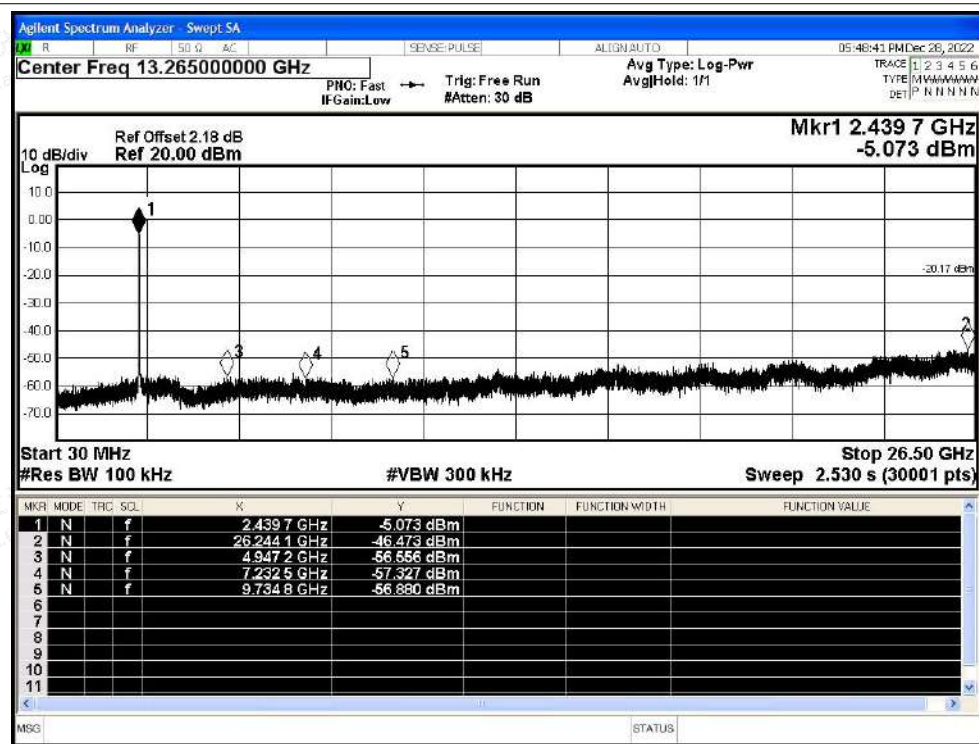
Scan code to check authenticity



## Tx. Spurious NVNT n20 2437MHz Ant1 Ref



## Tx. Spurious NVNT n20 2437MHz Ant1 Emission



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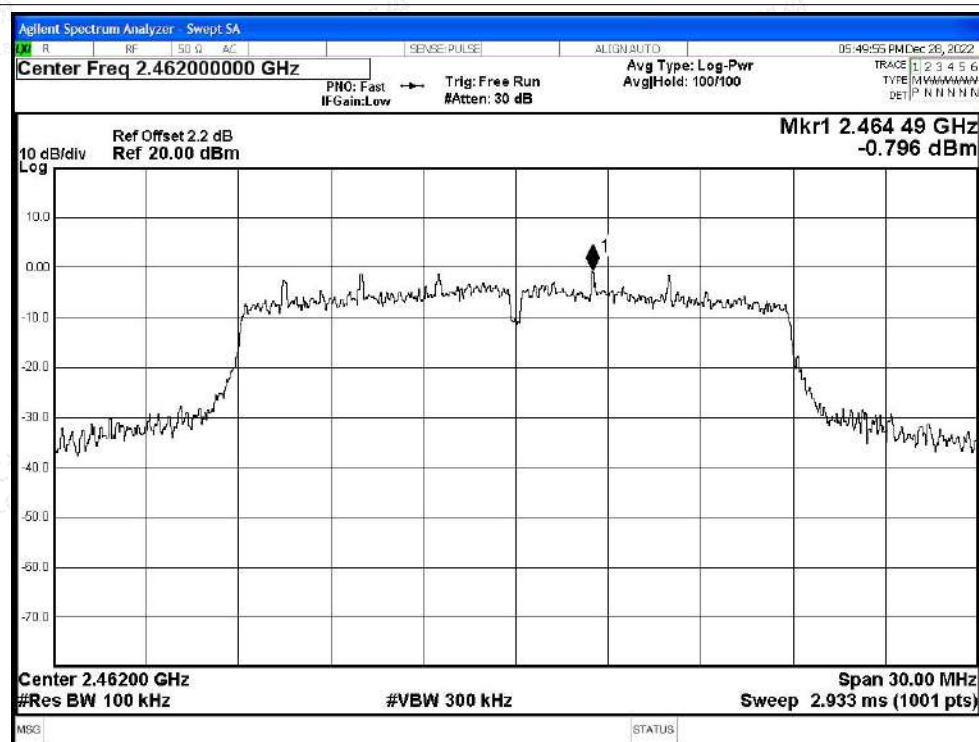
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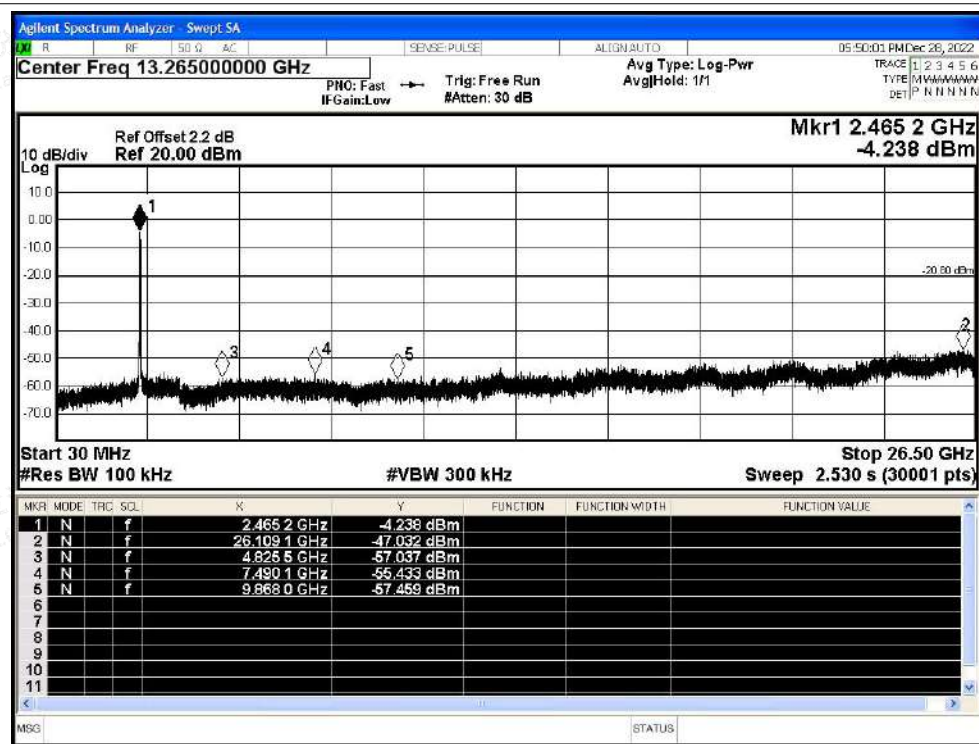
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## Tx. Spurious NVNT n20 2462MHz Ant1 Ref



## Tx. Spurious NVNT n20 2462MHz Ant1 Emission



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## B.6 Duty Cycle

| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | 1/T (kHz) |
|-----------|------|-----------------|---------|----------------|-----------|
| NVNT      | b    | 2412            | Ant1    | 99.67          | 0.01      |
| NVNT      | b    | 2437            | Ant1    | 99.67          | 0.01      |
| NVNT      | b    | 2462            | Ant1    | 99.67          | 0.01      |
| NVNT      | g    | 2412            | Ant1    | 97.76          | 0.72      |
| NVNT      | g    | 2437            | Ant1    | 97.76          | 0.72      |
| NVNT      | g    | 2462            | Ant1    | 97.76          | 0.72      |
| NVNT      | n20  | 2412            | Ant1    | 97.46          | 0.77      |
| NVNT      | n20  | 2437            | Ant1    | 97.6           | 0.77      |
| NVNT      | n20  | 2462            | Ant1    | 97.46          | 0.77      |



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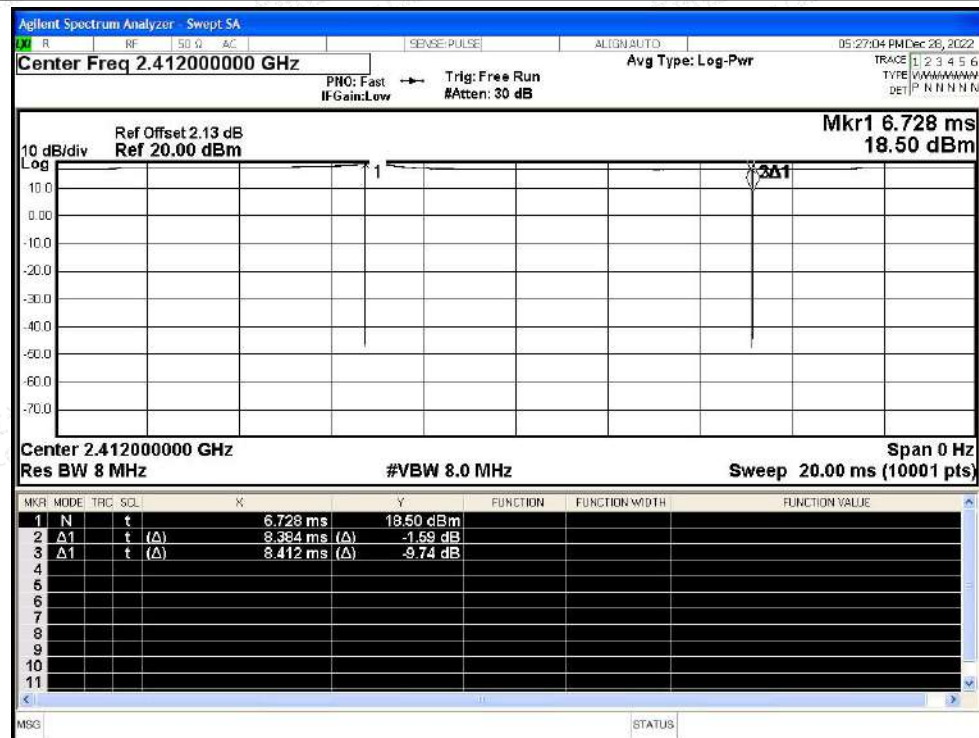
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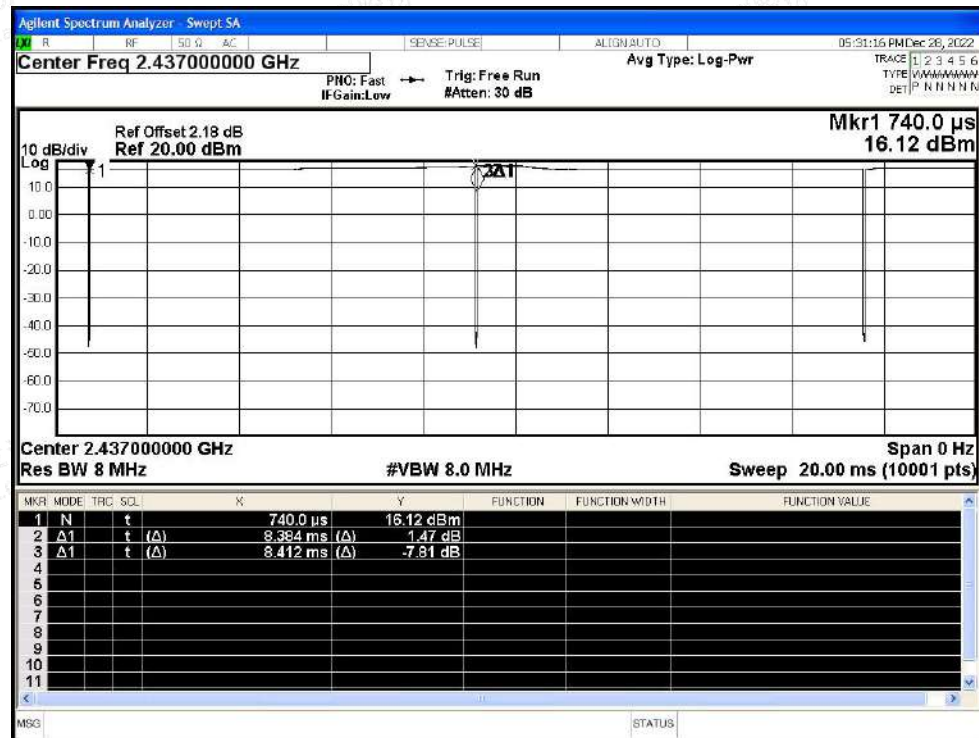


## Test Graphs

## Duty Cycle NVNT b 2412MHz Ant1



## Duty Cycle NVNT b 2437MHz Ant1



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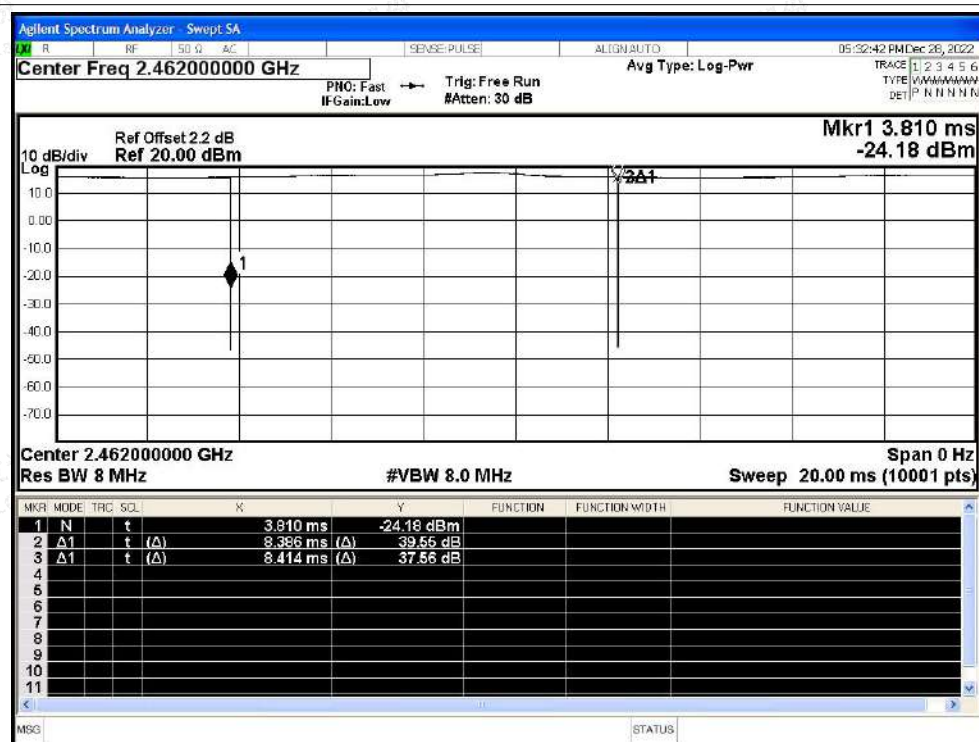
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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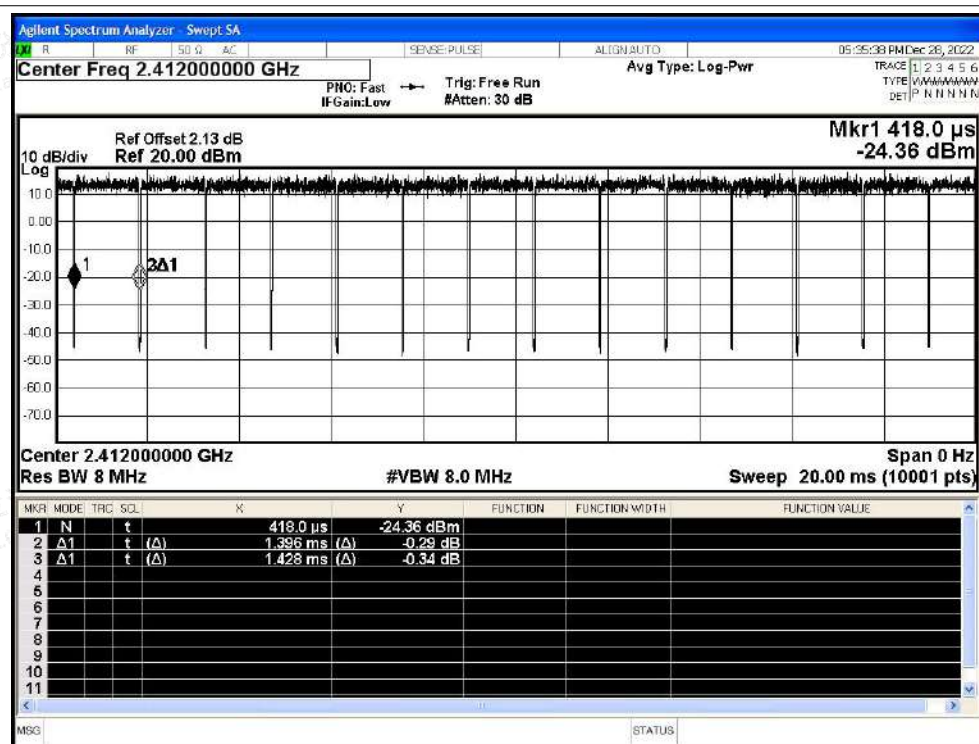




## Duty Cycle NVNT b 2462MHz Ant1



## Duty Cycle NVNT g 2412MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

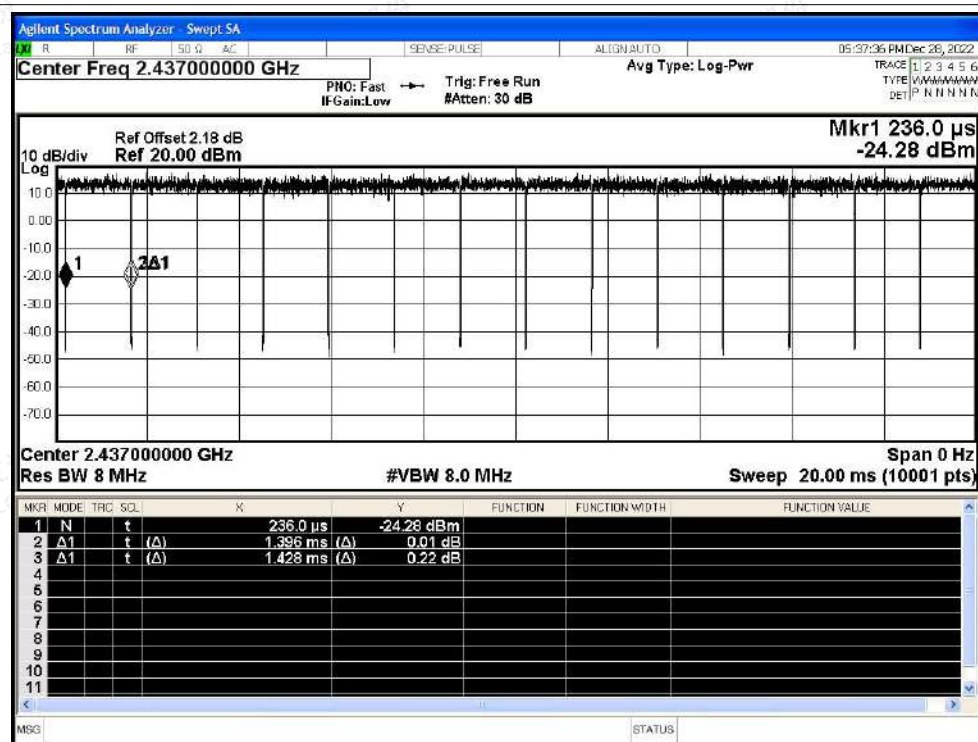
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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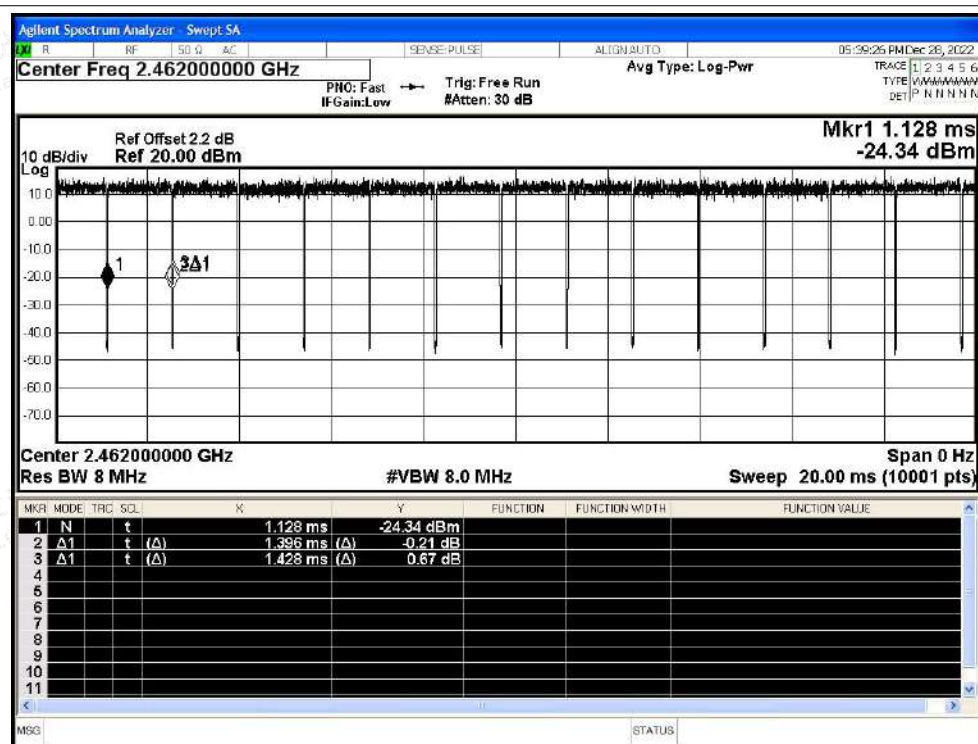
Scan code to check authenticity



## Duty Cycle NVNT g 2437MHz Ant1



## Duty Cycle NVNT g 2462MHz Ant1

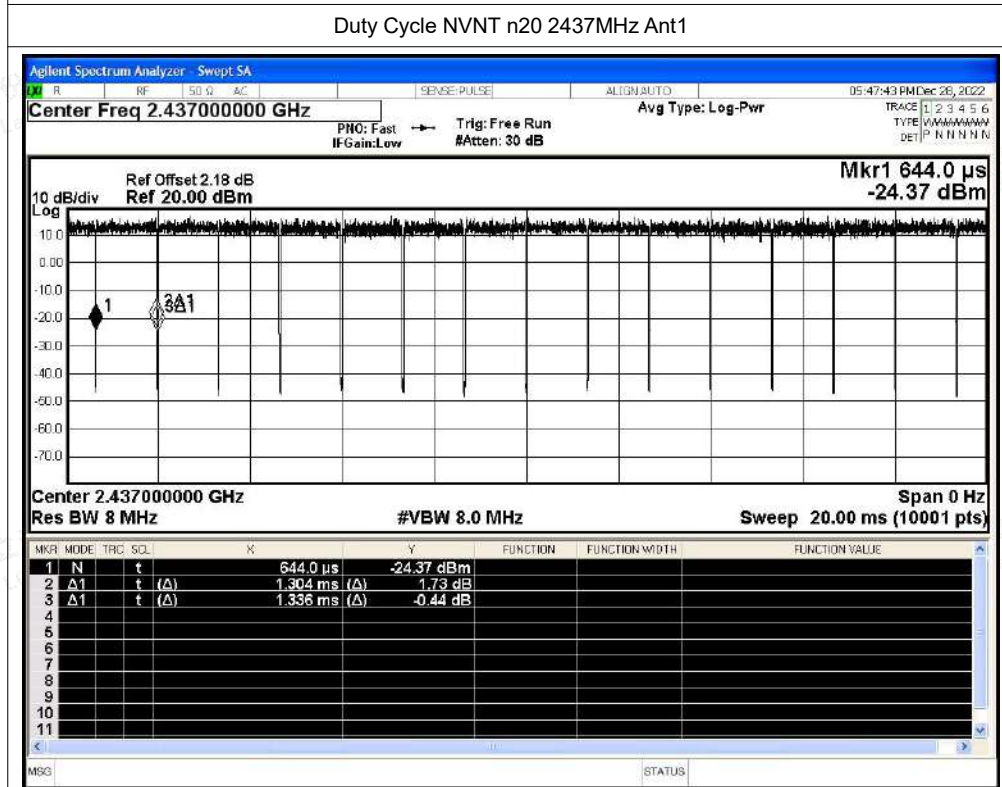
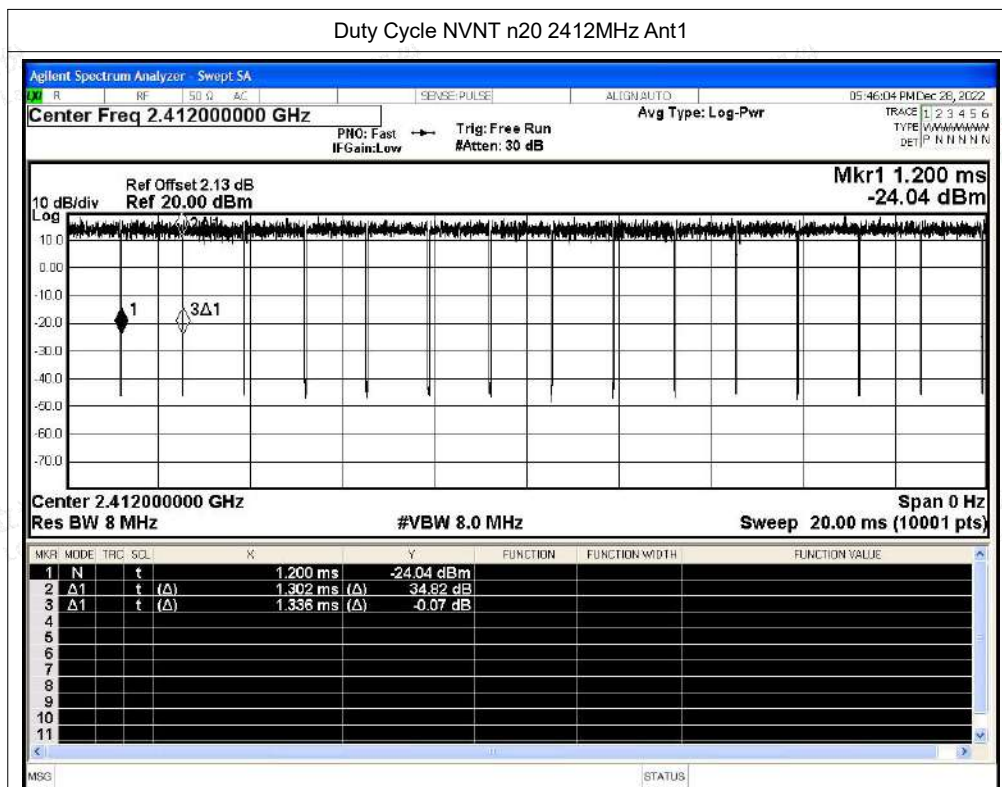


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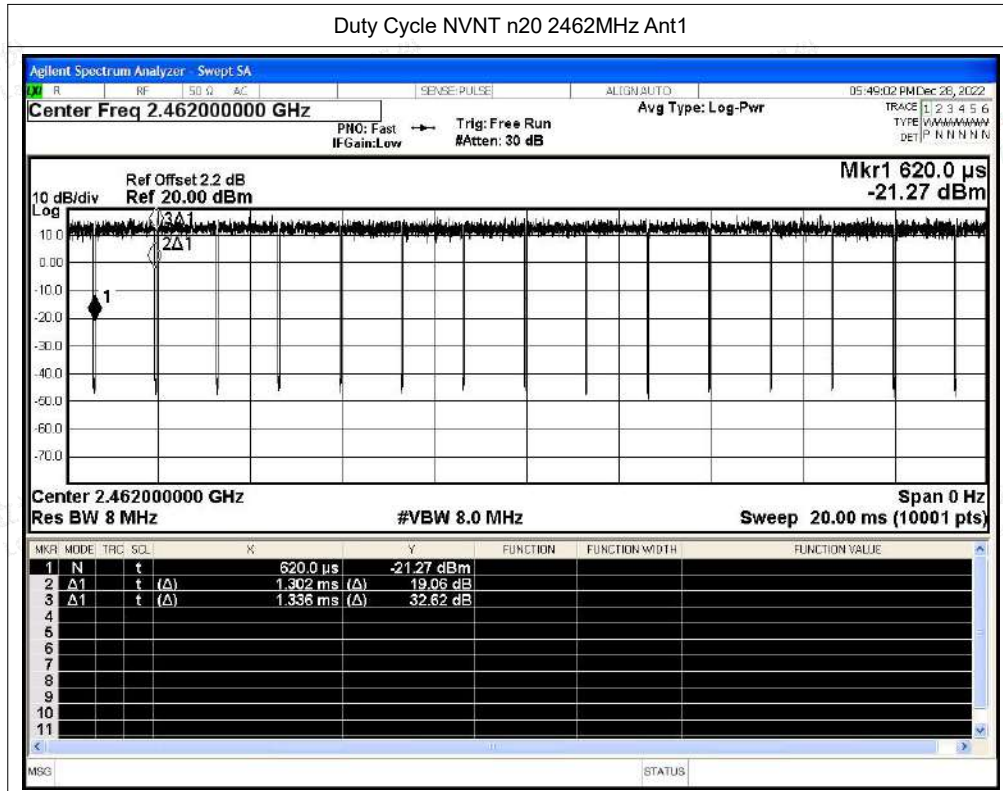


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## B.7 Restrict Band

| Condition | Mode | Frequency (MHz) | Antenna | Spur Freq (MHz) | Power (dBm) | Gain (dBi) | E (dBuV/m) | Detector | Limit (dBuV/m) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|------------|------------|----------|----------------|---------|
| NVNT      | b    | 2412            | Ant1    | 2310            | -50.59      | 3.4        | 48.07      | Peak     | 74             | Pass    |
| NVNT      | b    | 2412            | Ant1    | 2310            | -60.32      | 3.4        | 38.34      | Average  | 54             | Pass    |
| NVNT      | b    | 2412            | Ant1    | 2389.911        | -45.68      | 3.4        | 52.98      | Peak     | 74             | Pass    |
| NVNT      | b    | 2412            | Ant1    | 2386.752        | -54.24      | 3.4        | 44.42      | Average  | 54             | Pass    |
| NVNT      | b    | 2412            | Ant1    | 2390            | -46.43      | 3.4        | 52.23      | Peak     | 74             | Pass    |
| NVNT      | b    | 2412            | Ant1    | 2390            | -54.9       | 3.4        | 43.76      | Average  | 54             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2483.5          | -44.24      | 3.4        | 54.42      | Peak     | 74             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2483.5          | -52.42      | 3.4        | 46.24      | Average  | 54             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2483.994        | -44         | 3.4        | 54.66      | Peak     | 74             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2483.517        | -52.42      | 3.4        | 46.24      | Average  | 54             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2500            | -49.53      | 3.4        | 49.13      | Peak     | 74             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2500            | -59.09      | 3.4        | 39.57      | Average  | 54             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2310            | -49.76      | 3.4        | 48.9       | Peak     | 74             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2310            | -59.33      | 3.4        | 39.33      | Average  | 54             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2389.326        | -37.77      | 3.4        | 60.89      | Peak     | 74             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2389.911        | -52.06      | 3.4        | 46.6       | Average  | 54             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2390            | -38.03      | 3.4        | 60.63      | Peak     | 74             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2390            | -51.86      | 3.4        | 46.8       | Average  | 54             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2483.5          | -36.87      | 3.4        | 61.79      | Peak     | 74             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2483.5          | -48.58      | 3.4        | 50.08      | Average  | 54             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2483.623        | -32.74      | 3.4        | 65.92      | Peak     | 74             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2483.517        | -48.58      | 3.4        | 50.08      | Average  | 54             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2500            | -45.74      | 3.4        | 52.92      | Peak     | 74             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2500            | -55.72      | 3.4        | 42.94      | Average  | 54             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2310            | -50.21      | 3.4        | 48.45      | Peak     | 74             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2310            | -59.42      | 3.4        | 39.24      | Average  | 54             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2388.975        | -32.42      | 3.4        | 66.24      | Peak     | 74             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2389.911        | -48         | 3.4        | 50.66      | Average  | 54             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2390            | -34.04      | 3.4        | 64.62      | Peak     | 74             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2390            | -47.72      | 3.4        | 50.94      | Average  | 54             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2483.5          | -32.5       | 3.4        | 66.16      | Peak     | 74             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2483.5          | -44.95      | 3.4        | 53.71      | Average  | 54             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2483.57         | -30.1       | 3.4        | 68.56      | Peak     | 74             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2483.517        | -44.95      | 3.4        | 53.71      | Average  | 54             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2500            | -44.86      | 3.4        | 53.8       | Peak     | 74             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2500            | -55.18      | 3.4        | 43.48      | Average  | 54             | Pass    |



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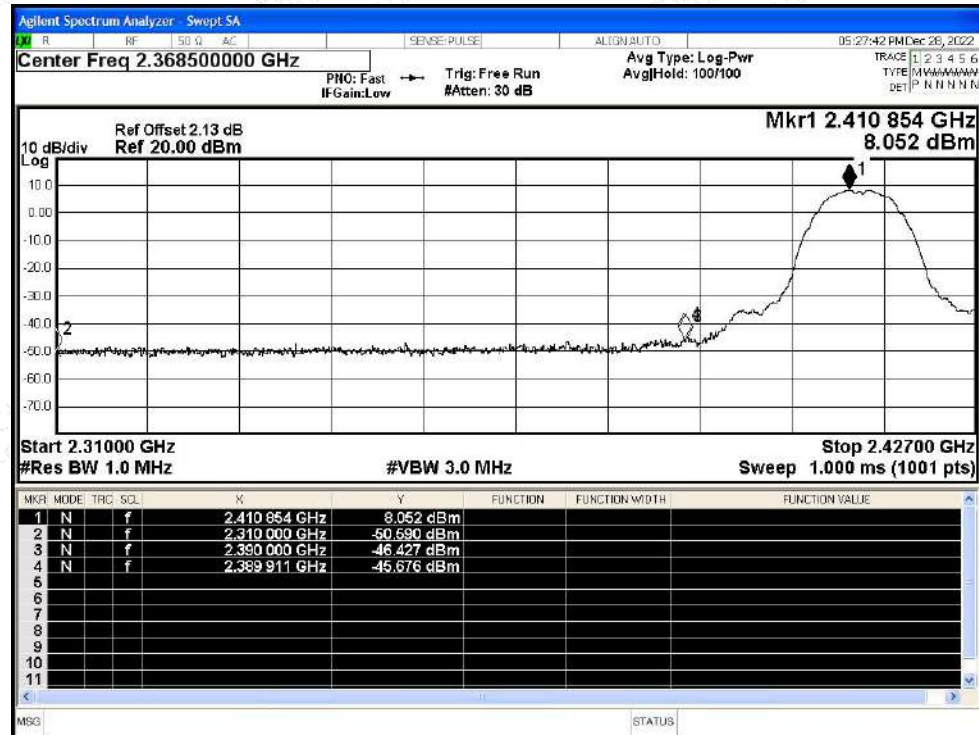
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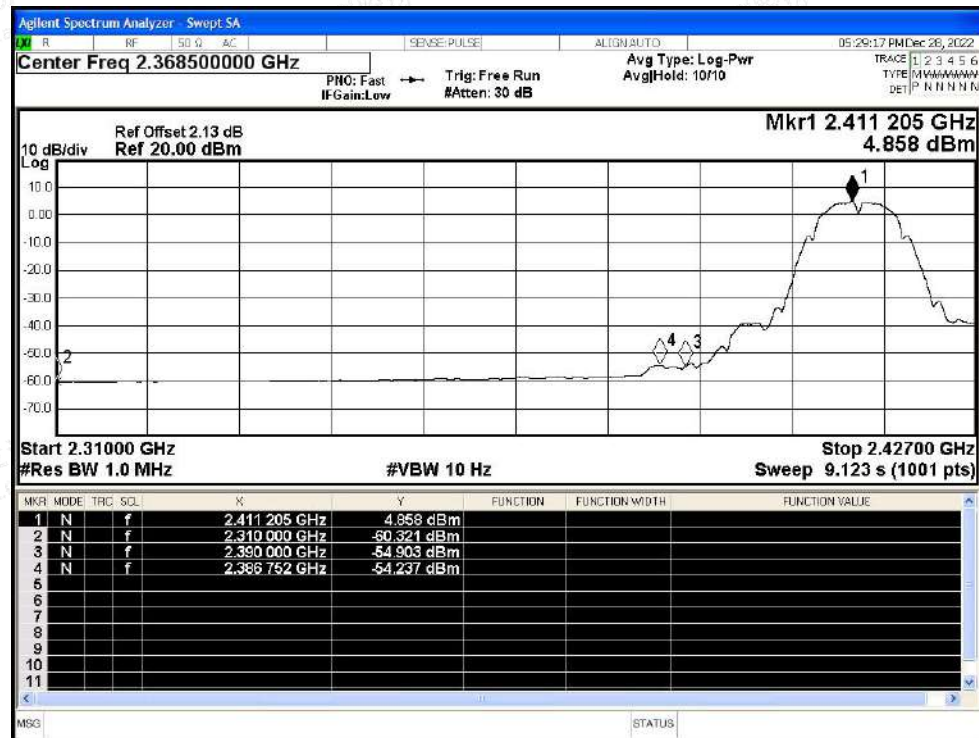


## Test Graphs

## Restrict Band NVNT b 2412MHz Ant1 Peak



## Restrict Band NVNT b 2412MHz Ant1 Average

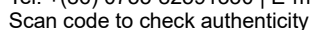
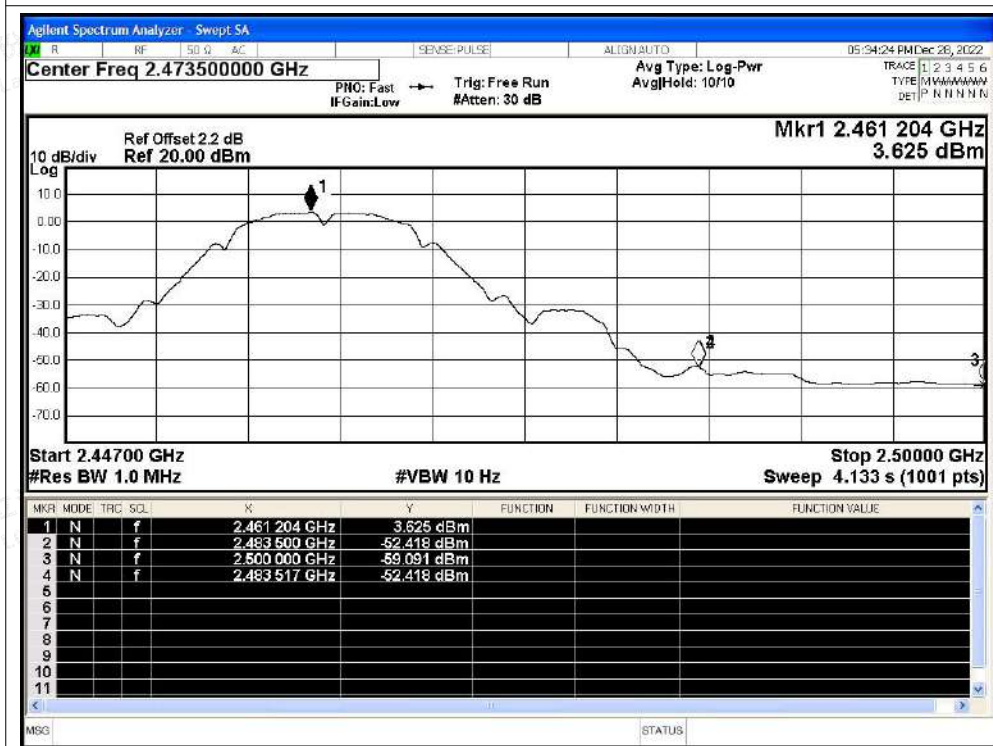
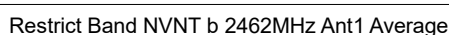
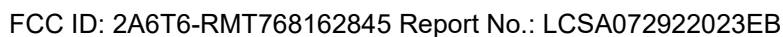


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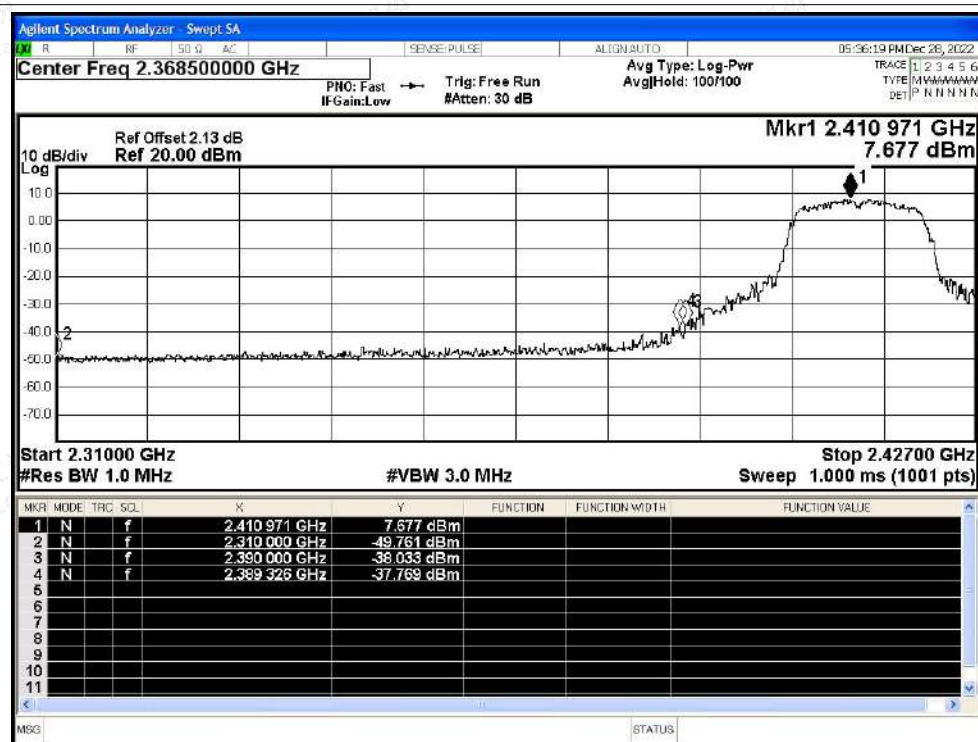
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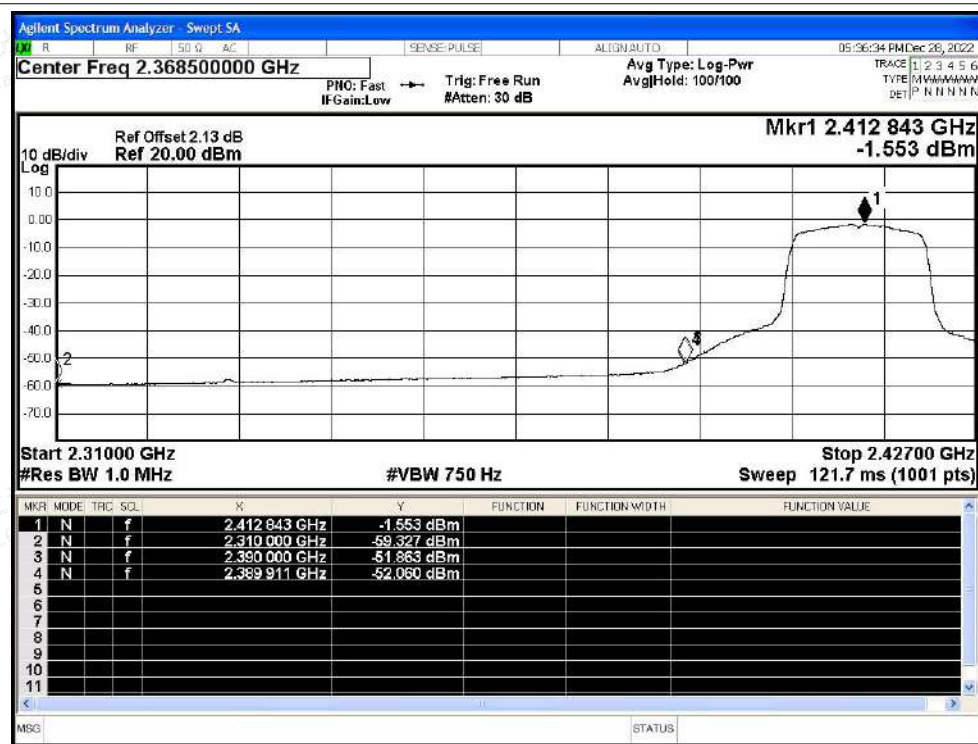




## Restrict Band NVNT g 2412MHz Ant1 Peak



## Restrict Band NVNT g 2412MHz Ant1 Average

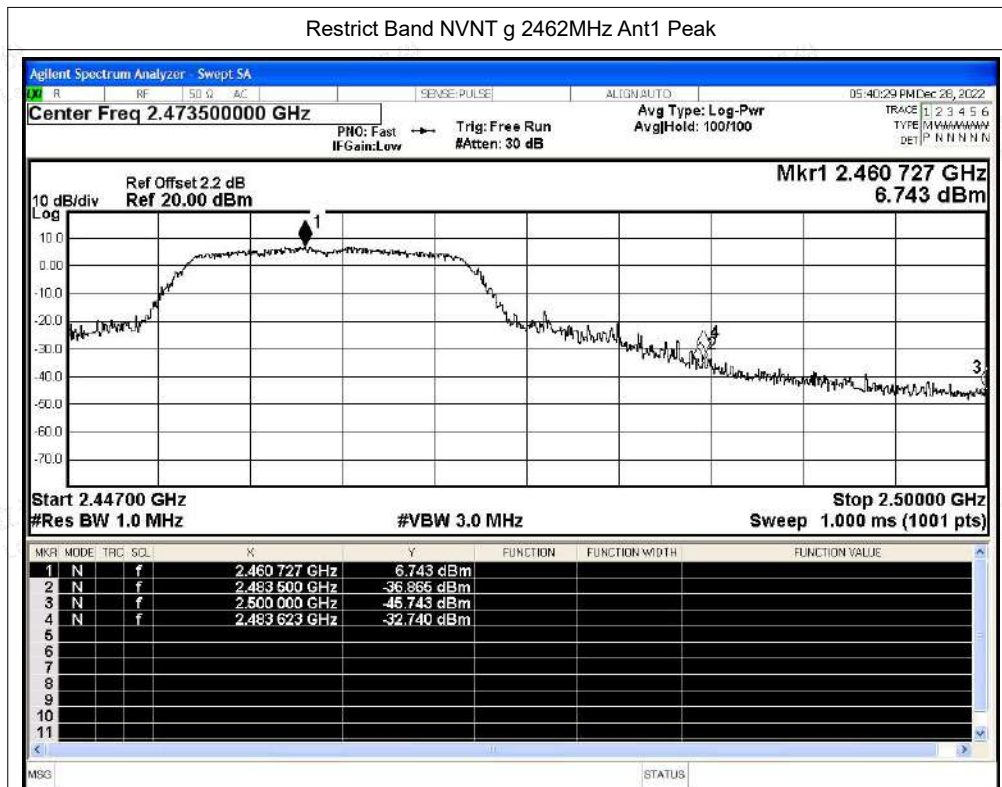


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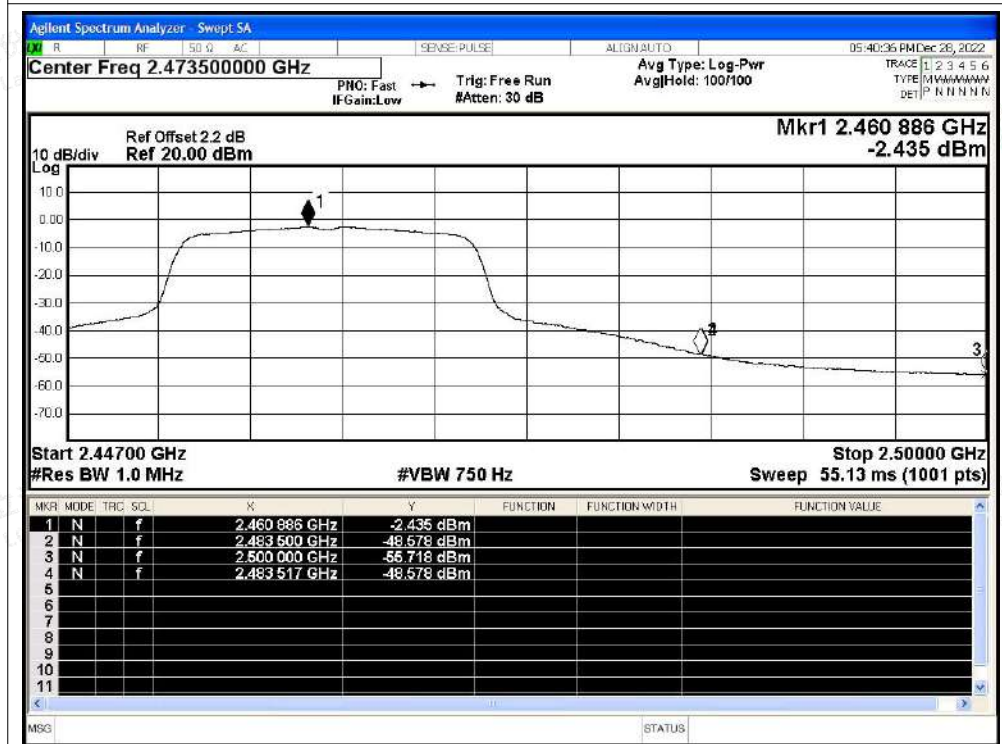
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Restrict Band NVNT g 2462MHz Ant1 Average



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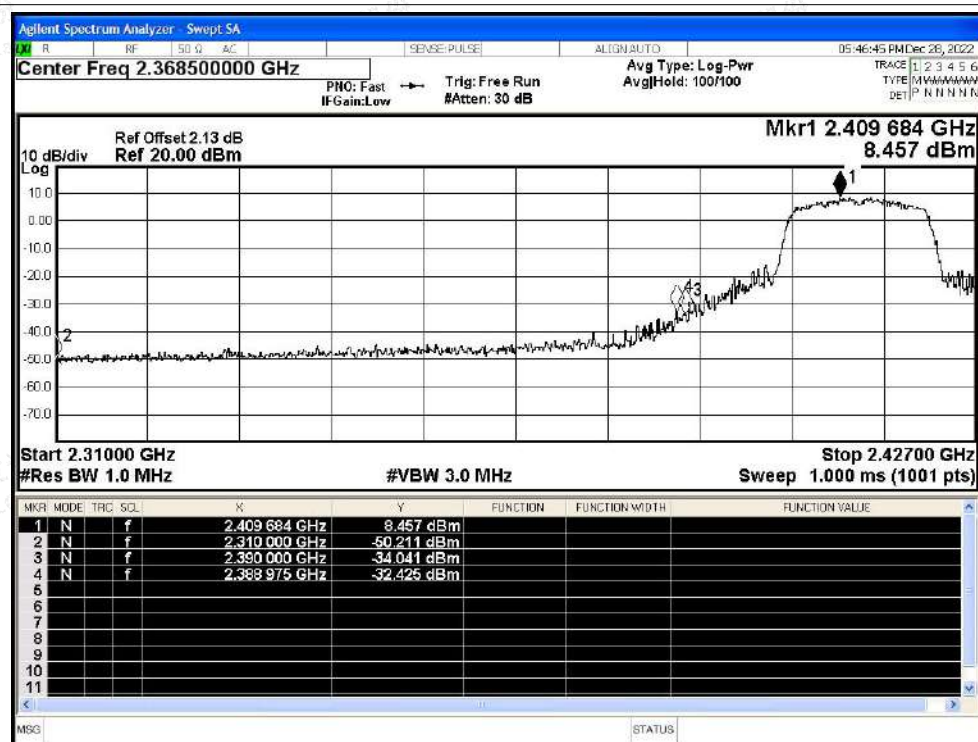
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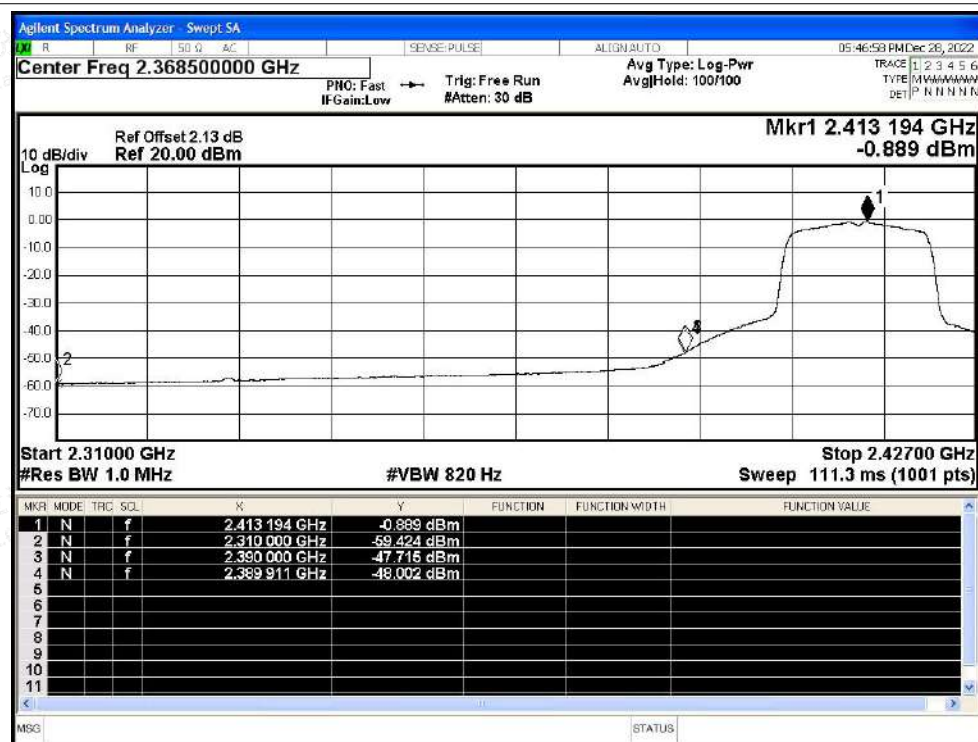




## Restrict Band NVNT n20 2412MHz Ant1 Peak



## Restrict Band NVNT n20 2412MHz Ant1 Average



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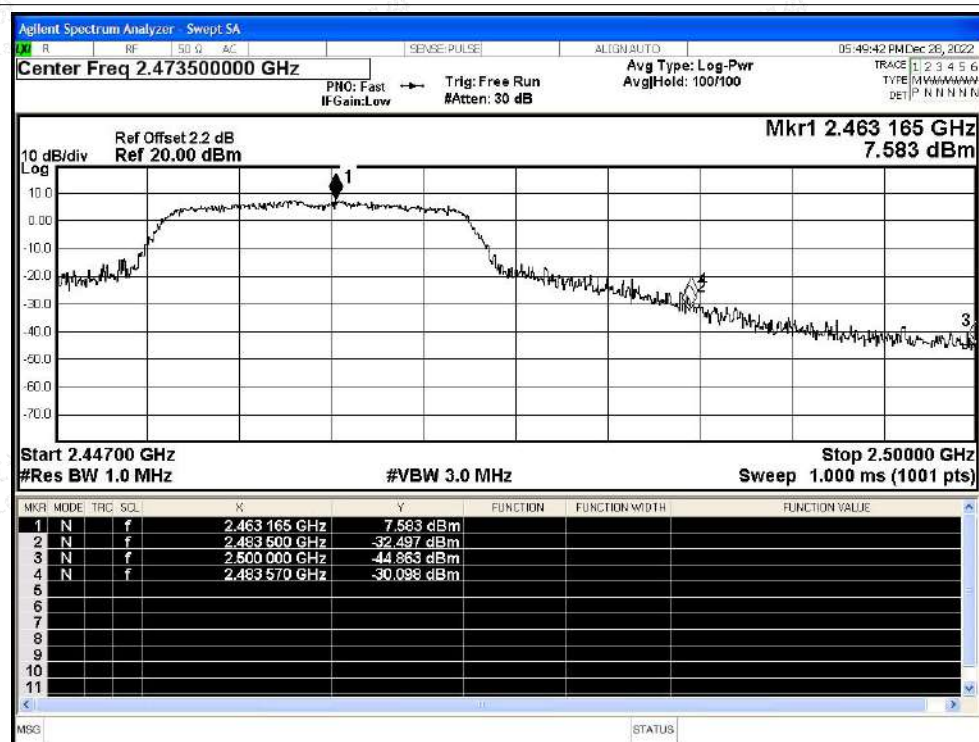
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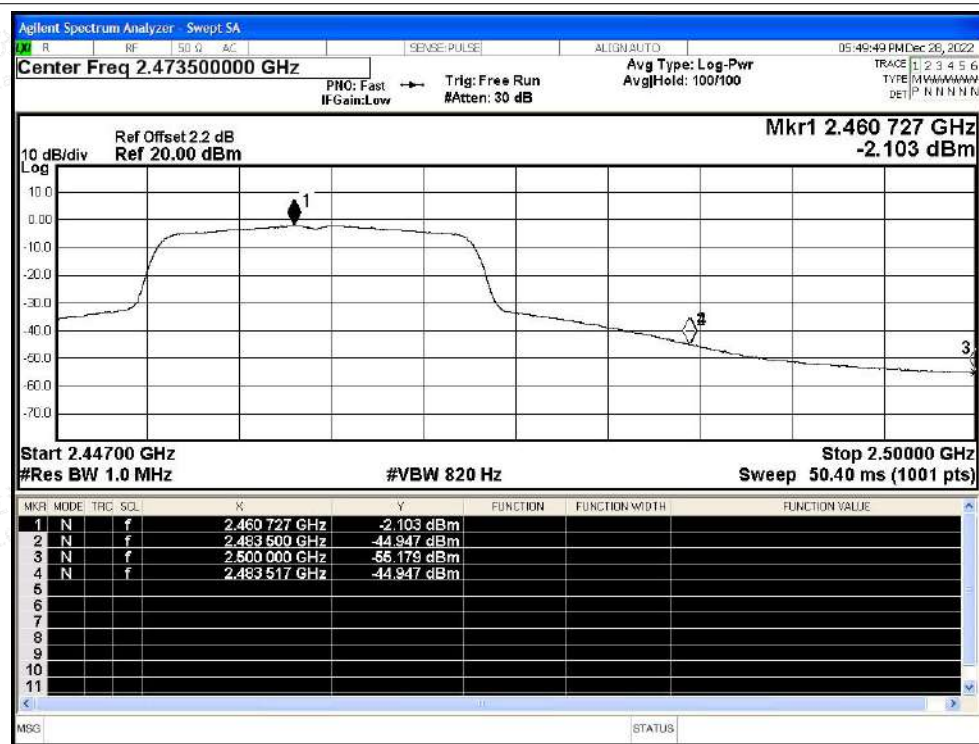




## Restrict Band NVNT n20 2462MHz Ant1 Peak



## Restrict Band NVNT n20 2462MHz Ant1 Average



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