



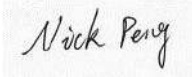
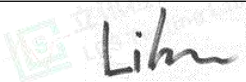
## Appendix B

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

Product Name: Spherical atmosphere lamp

Test Model: FWWDA3-15

#### Environmental Conditions

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



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## B.1 6dB Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | 6 dB Bandwidth (MHz) | Limit 6 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|----------------------|----------------------------|---------|
| NVNT      | b    | 2412            | Ant1    | 8.528                | 0.5                        | Pass    |
| NVNT      | b    | 2437            | Ant1    | 9.454                | 0.5                        | Pass    |
| NVNT      | b    | 2462            | Ant1    | 9.812                | 0.5                        | Pass    |
| NVNT      | g    | 2412            | Ant1    | 16.36                | 0.5                        | Pass    |
| NVNT      | g    | 2437            | Ant1    | 15.788               | 0.5                        | Pass    |
| NVNT      | g    | 2462            | Ant1    | 16.342               | 0.5                        | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 16.249               | 0.5                        | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 17.654               | 0.5                        | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 15.578               | 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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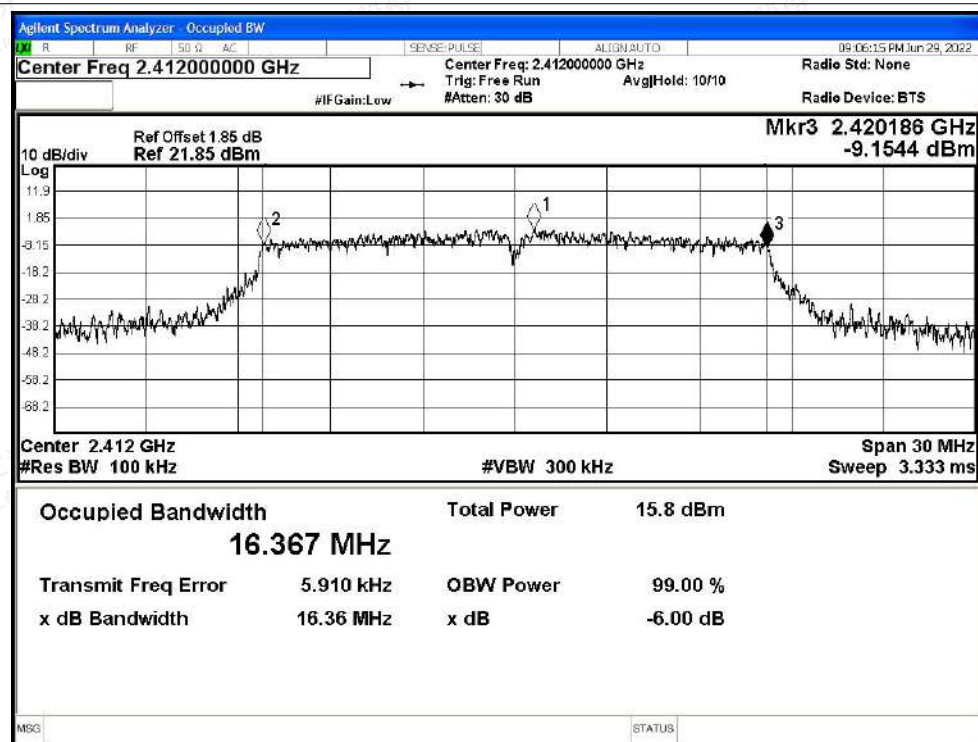
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## 6dB Bandwidth NVNT b 2462MHz Ant1



## 6dB Bandwidth NVNT g 2412MHz Ant1



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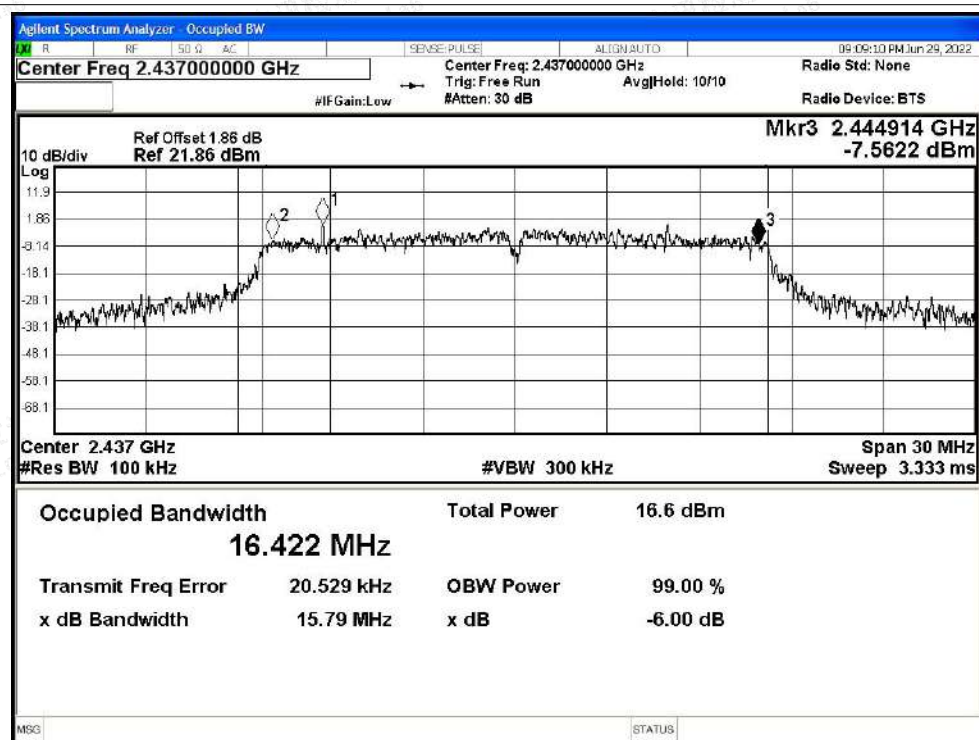
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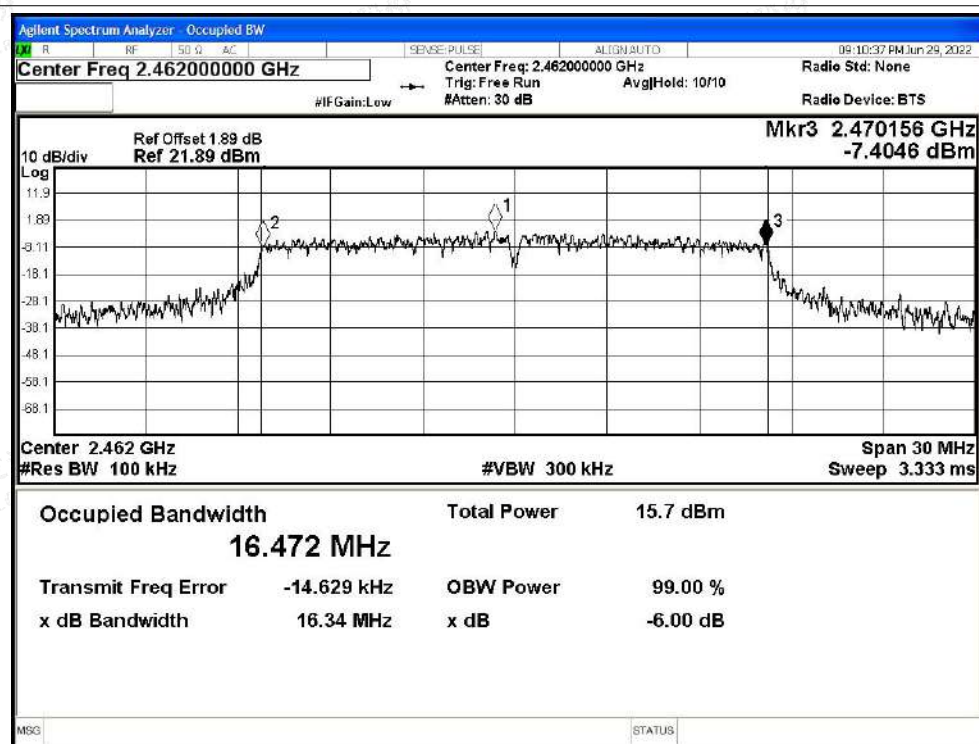
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## 6dB Bandwidth NVNT g 2437MHz Ant1



## 6dB Bandwidth NVNT g 2462MHz Ant1



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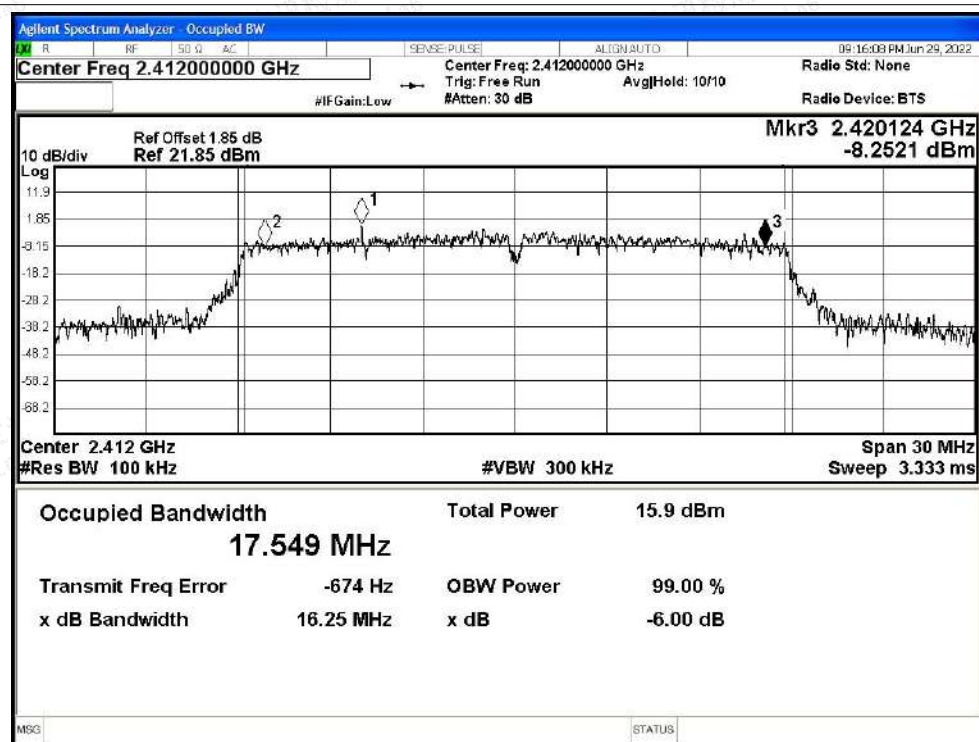
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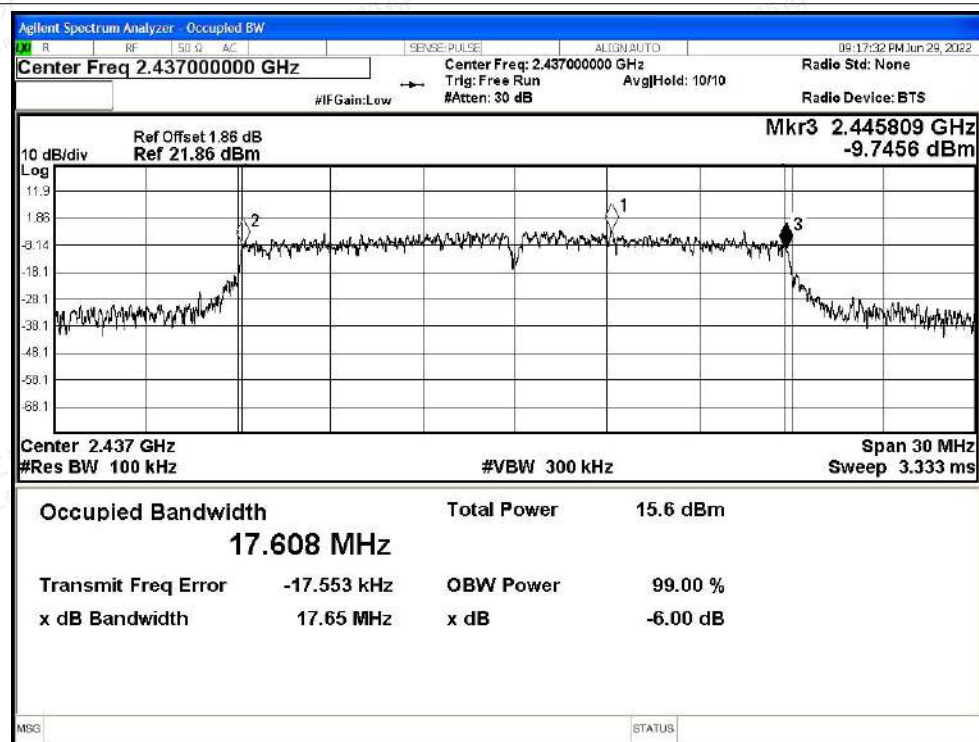
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## 6dB Bandwidth NVNT n20 2412MHz Ant1



## 6dB Bandwidth NVNT n20 2437MHz Ant1

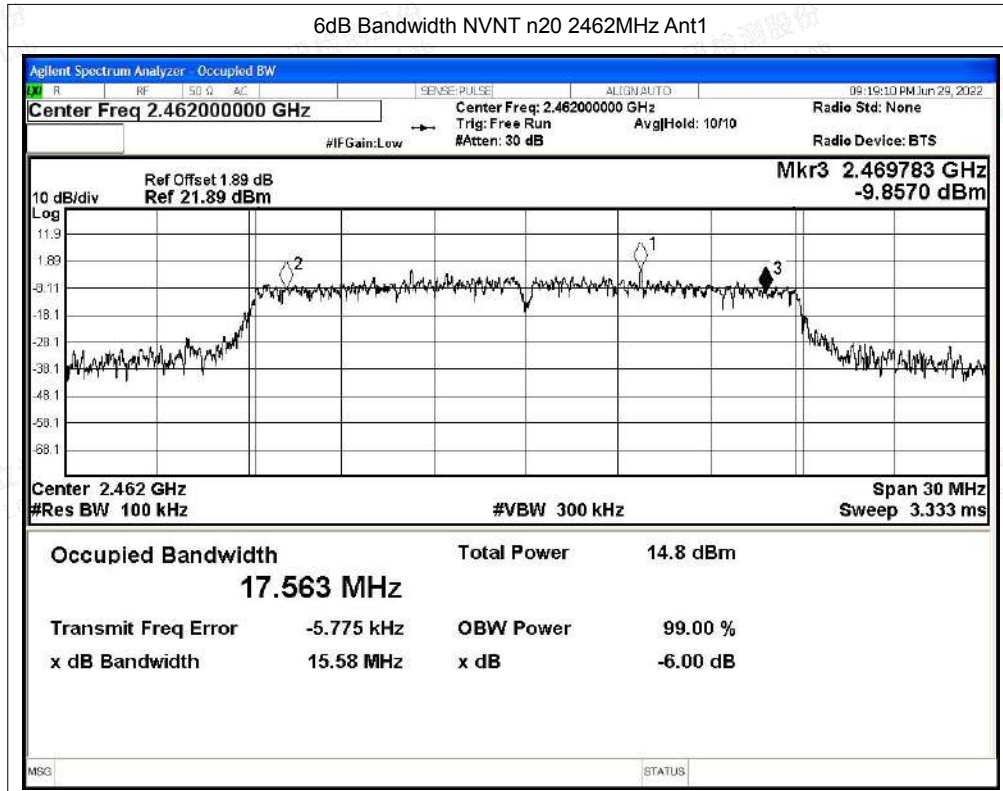


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## B.2 Maximum Conducted Output Power

| Condition | Mode | Frequency (MHz) | Antenna | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-------------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | 15.15             | 30          | Pass    |
| NVNT      | b    | 2437            | Ant1    | 15.07             | 30          | Pass    |
| NVNT      | b    | 2462            | Ant1    | 14.23             | 30          | Pass    |
| NVNT      | g    | 2412            | Ant1    | 14.72             | 30          | Pass    |
| NVNT      | g    | 2437            | Ant1    | 14.36             | 30          | Pass    |
| NVNT      | g    | 2462            | Ant1    | 14.5              | 30          | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 14.49             | 30          | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 14.4              | 30          | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 13.77             | 30          | Pass    |



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### B.3 Maximum Power Spectral Density Level

| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm/3kHz) | Duty Factor (dB) | Total PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|-----------|------|-----------------|---------|--------------------------|------------------|----------------------|------------------|---------|
| NVNT      | b    | 2412            | Ant1    | -5.94                    | 0                | -5.94                | 8                | Pass    |
| NVNT      | b    | 2437            | Ant1    | -9.51                    | 0                | -9.51                | 8                | Pass    |
| NVNT      | b    | 2462            | Ant1    | -10.79                   | 0                | -10.79               | 8                | Pass    |
| NVNT      | g    | 2412            | Ant1    | -12.92                   | 0                | -12.92               | 8                | Pass    |
| NVNT      | g    | 2437            | Ant1    | -12.71                   | 0                | -12.71               | 8                | Pass    |
| NVNT      | g    | 2462            | Ant1    | -12.71                   | 0                | -12.71               | 8                | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -12.81                   | 0                | -12.81               | 8                | Pass    |
| NVNT      | n20  | 2437            | Ant1    | -12.35                   | 0                | -12.35               | 8                | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -14.73                   | 0                | -14.73               | 8                | Pass    |



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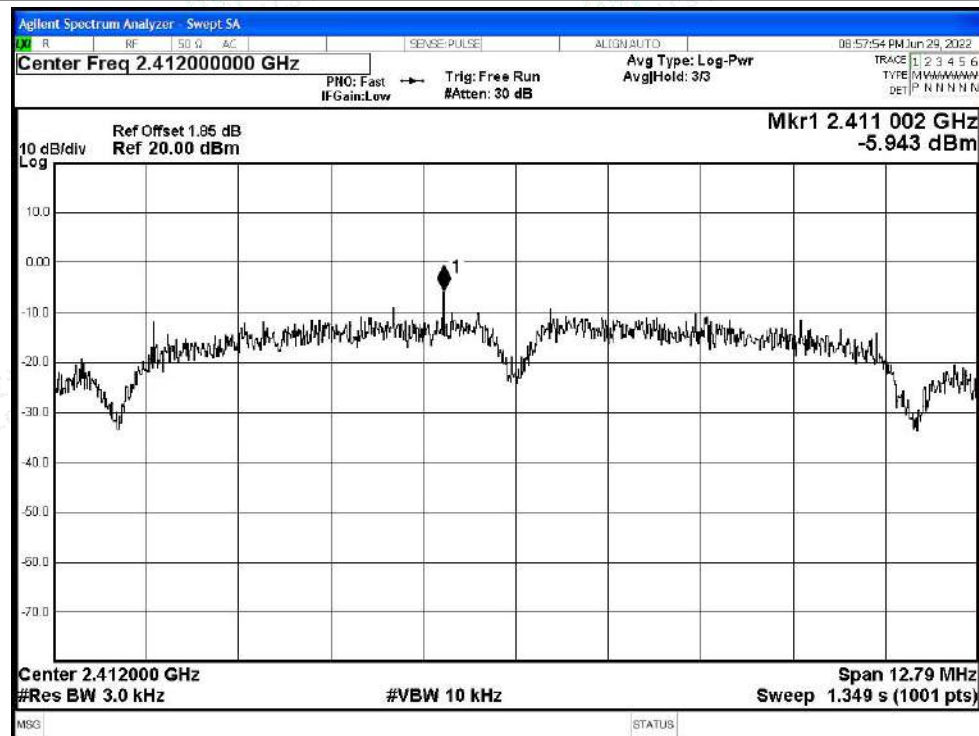
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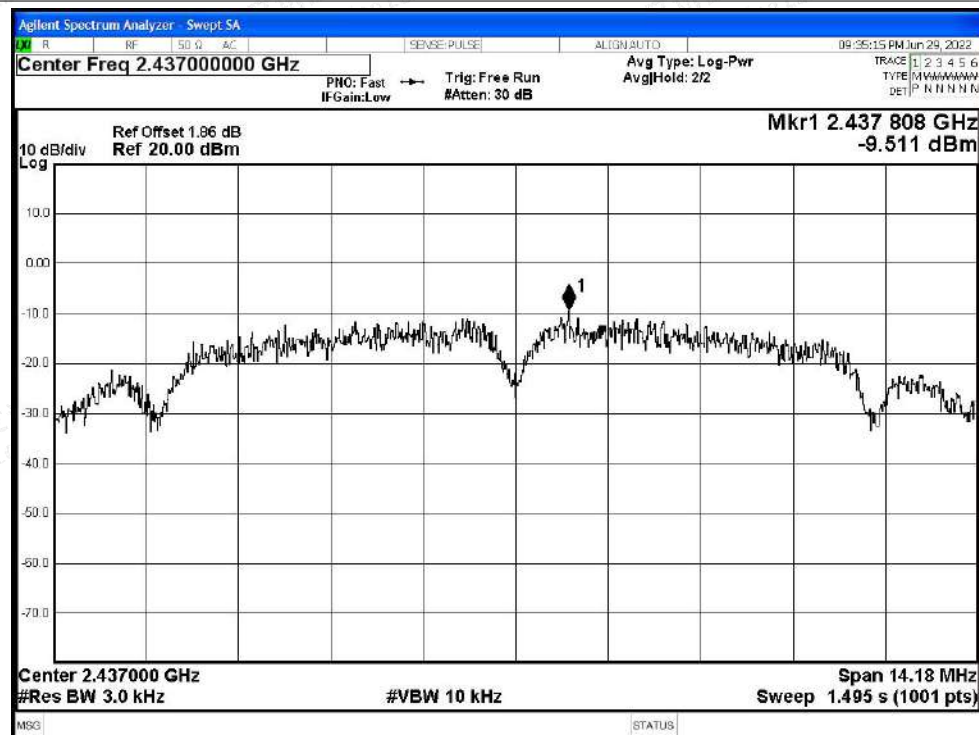


## Test Graphs

PSD NVNT b 2412MHz Ant1



PSD NVNT b 2437MHz Ant1



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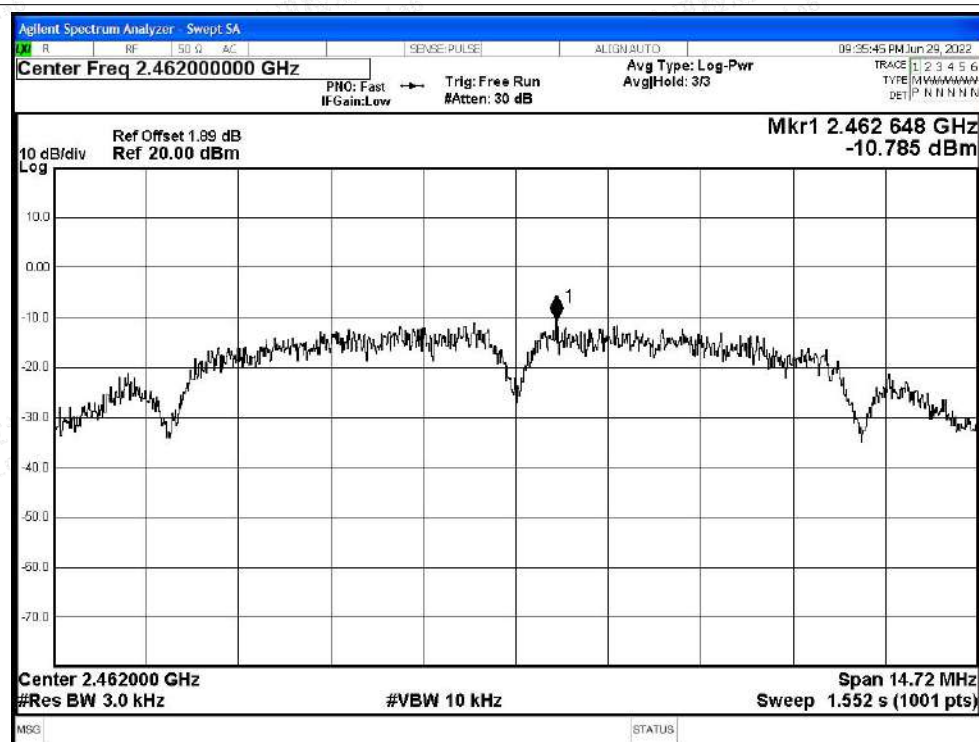
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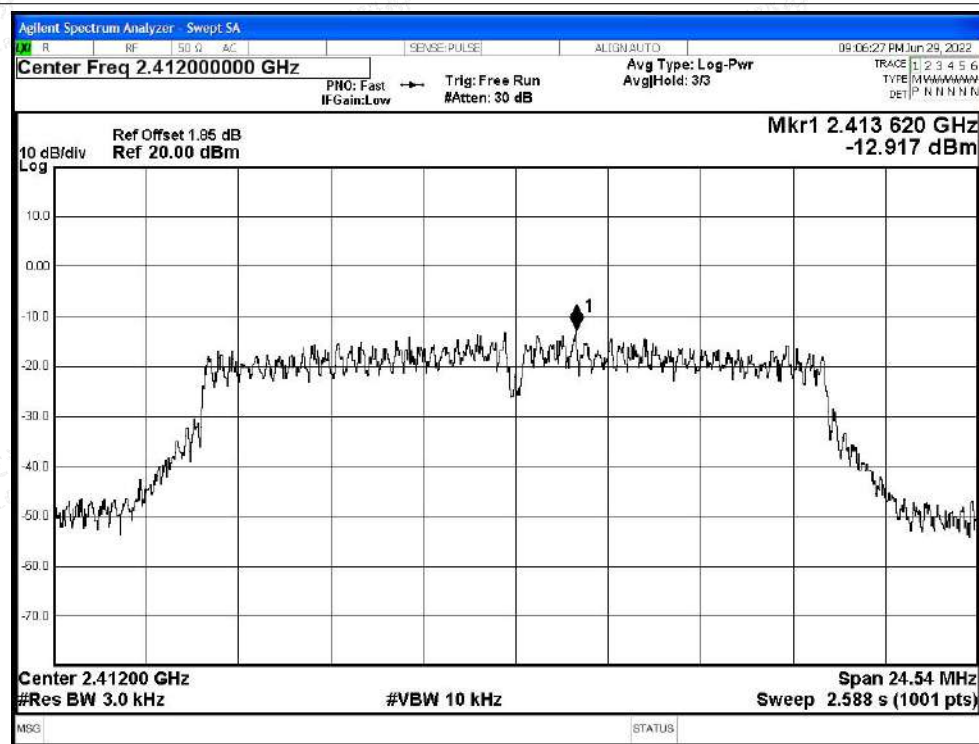
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PSD NVNT b 2462MHz Ant1



PSD NVNT g 2412MHz Ant1



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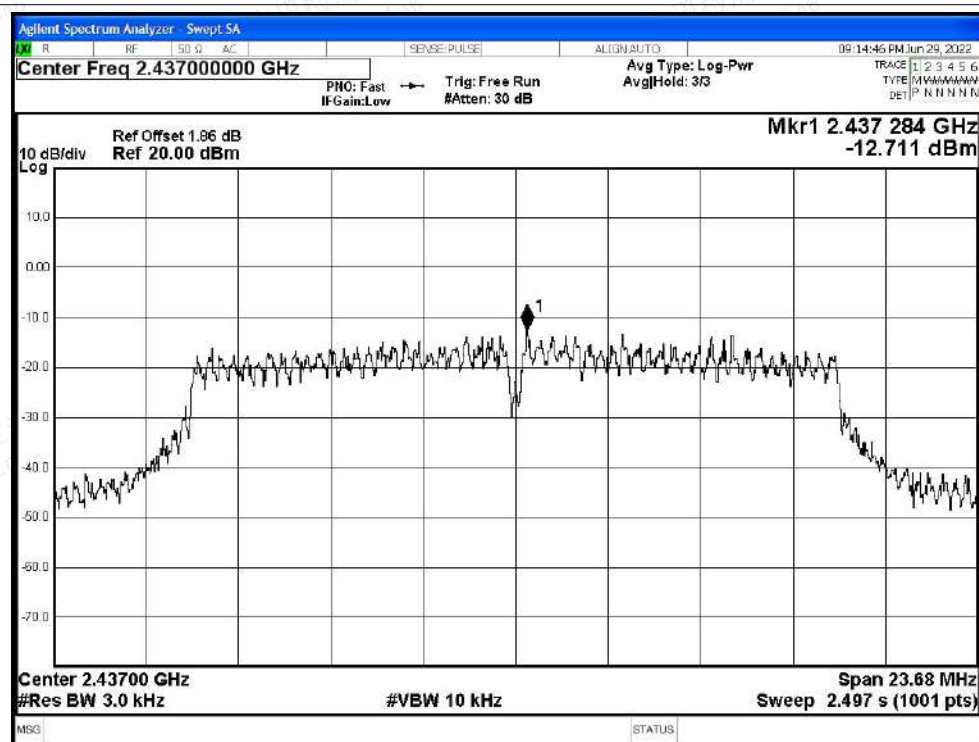
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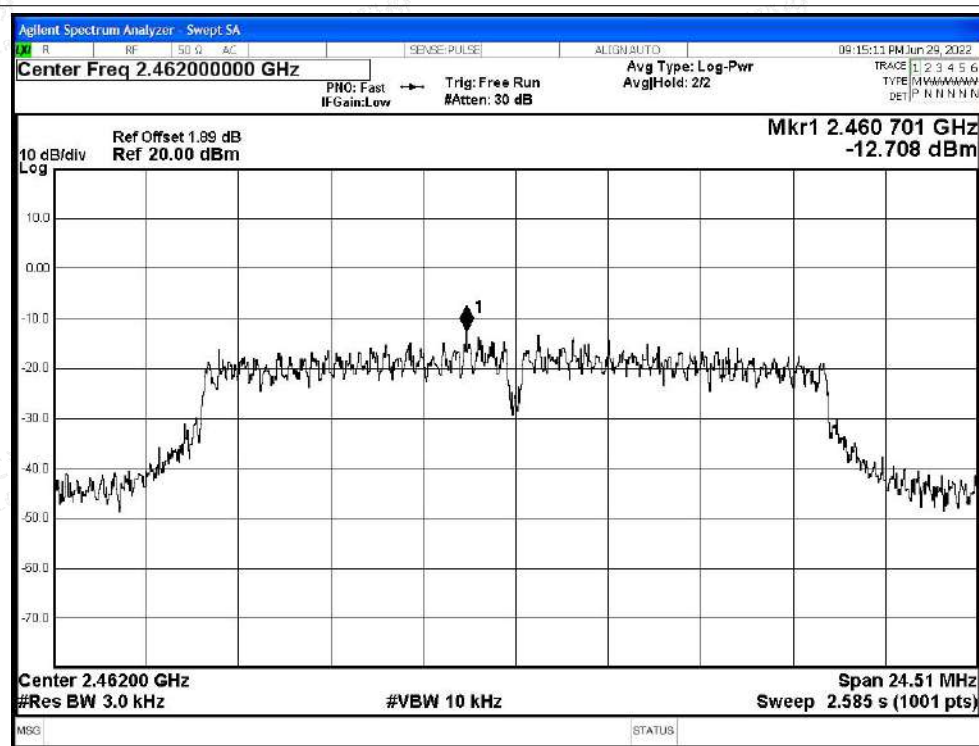
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PSD NVNT g 2437MHz Ant1



PSD NVNT g 2462MHz Ant1

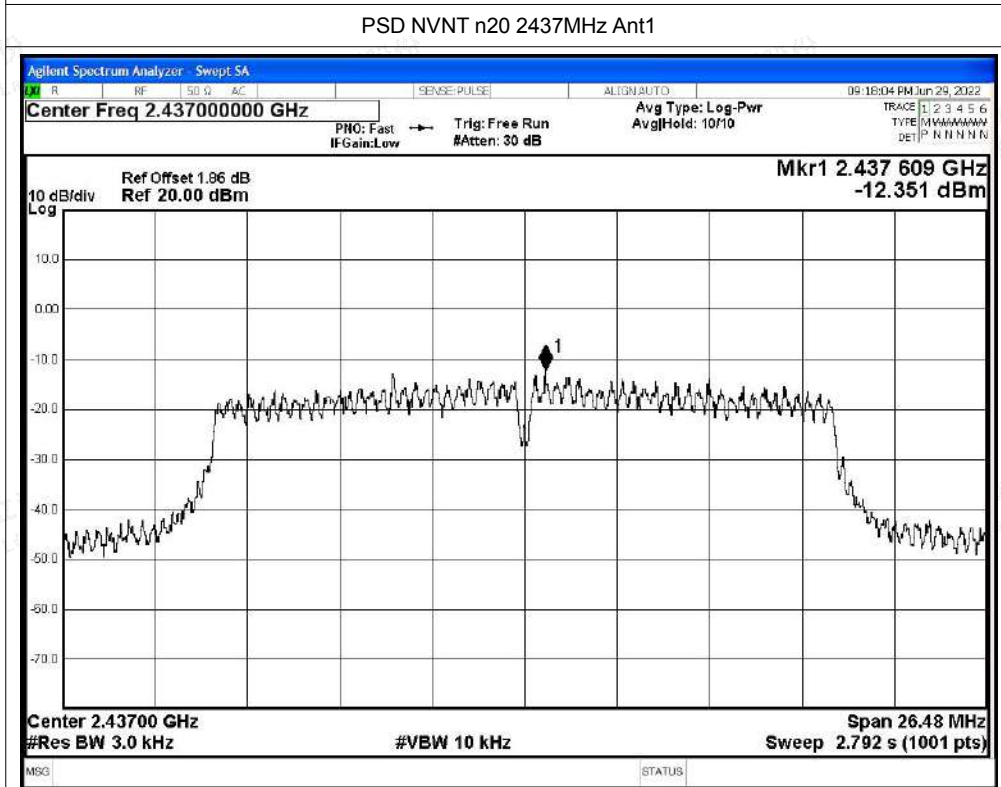
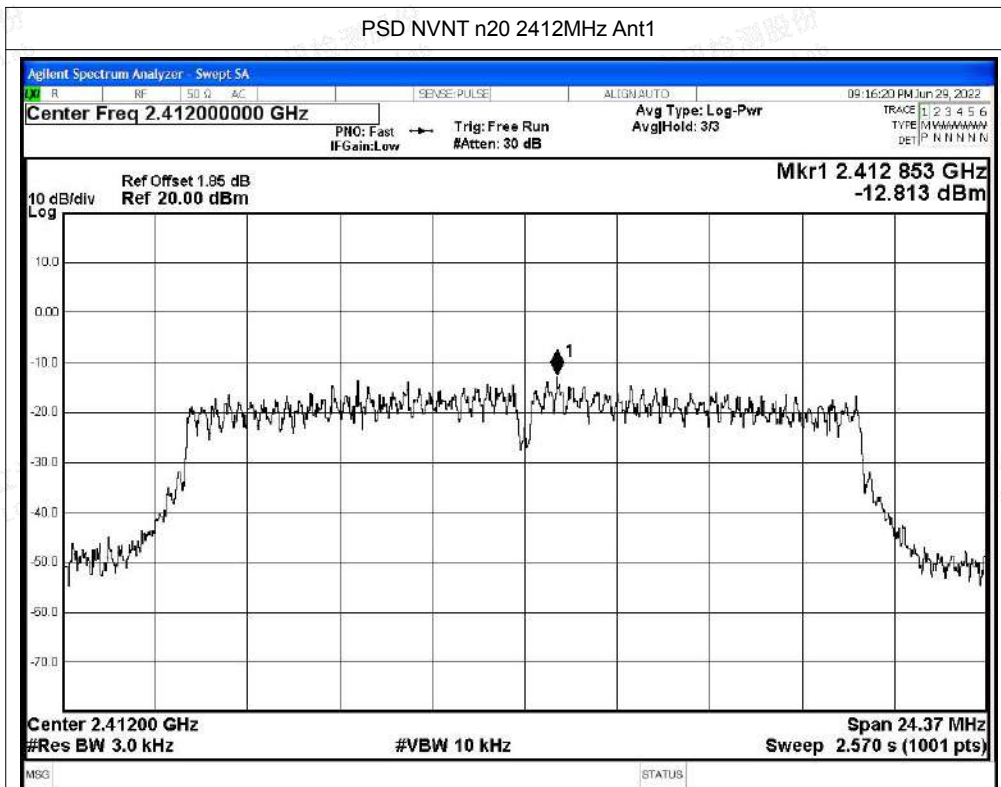


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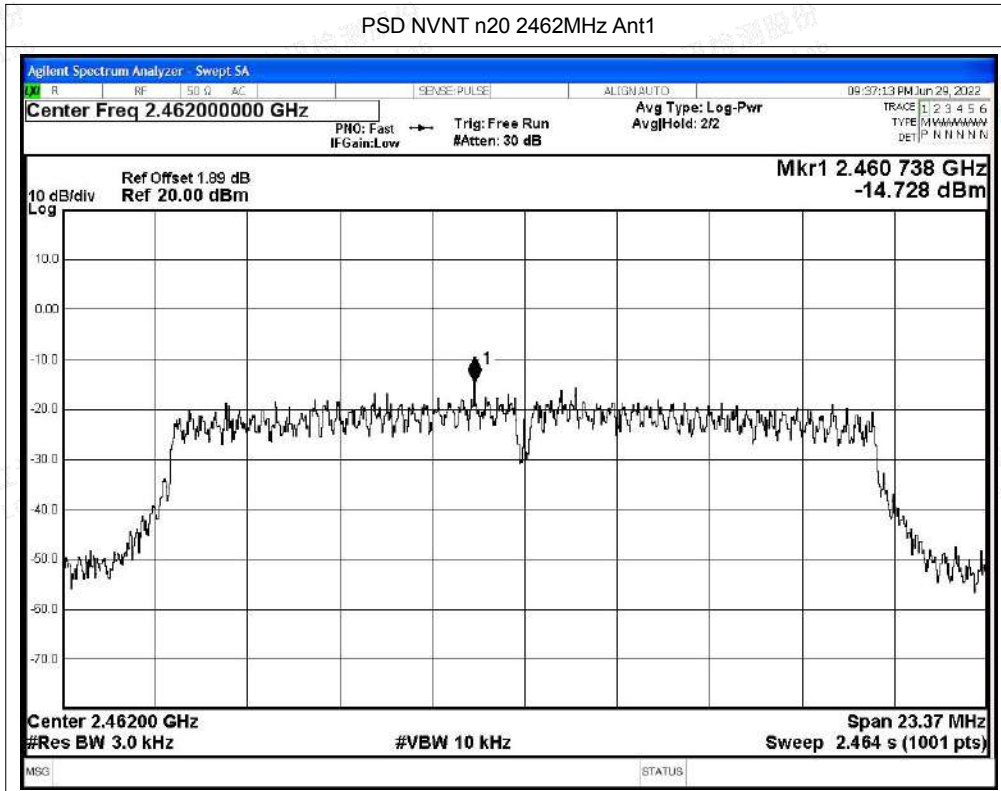


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## B.4 Band Edge

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | -45.86          | -20         | Pass    |
| NVNT      | b    | 2462            | Ant1    | -56.39          | -20         | Pass    |
| NVNT      | g    | 2412            | Ant1    | -32.32          | -20         | Pass    |
| NVNT      | g    | 2462            | Ant1    | -43.27          | -20         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -34.8           | -20         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -40.36          | -20         | Pass    |



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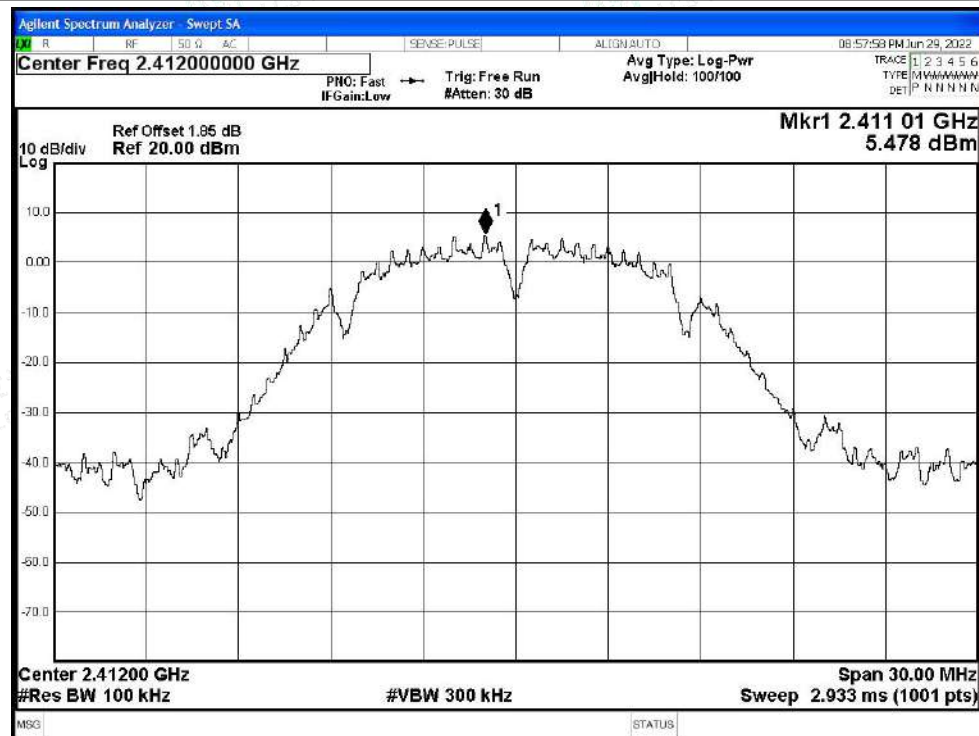
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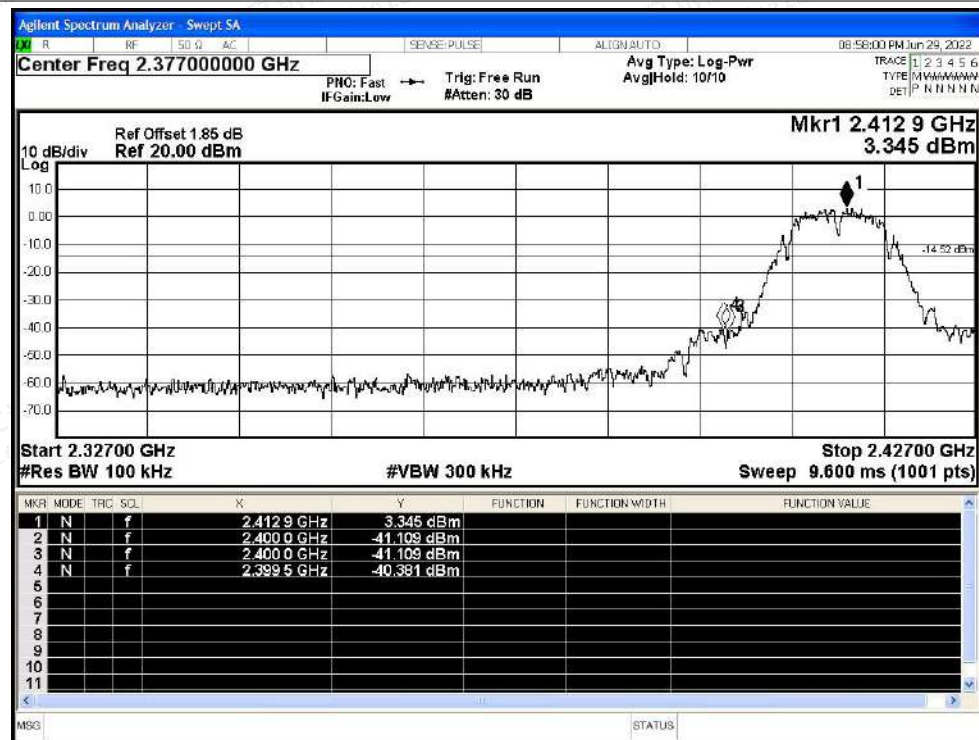


## Test Graphs

## Band Edge NVNT b 2412MHz Ant1 Ref



## Band Edge NVNT b 2412MHz Ant1 Emission



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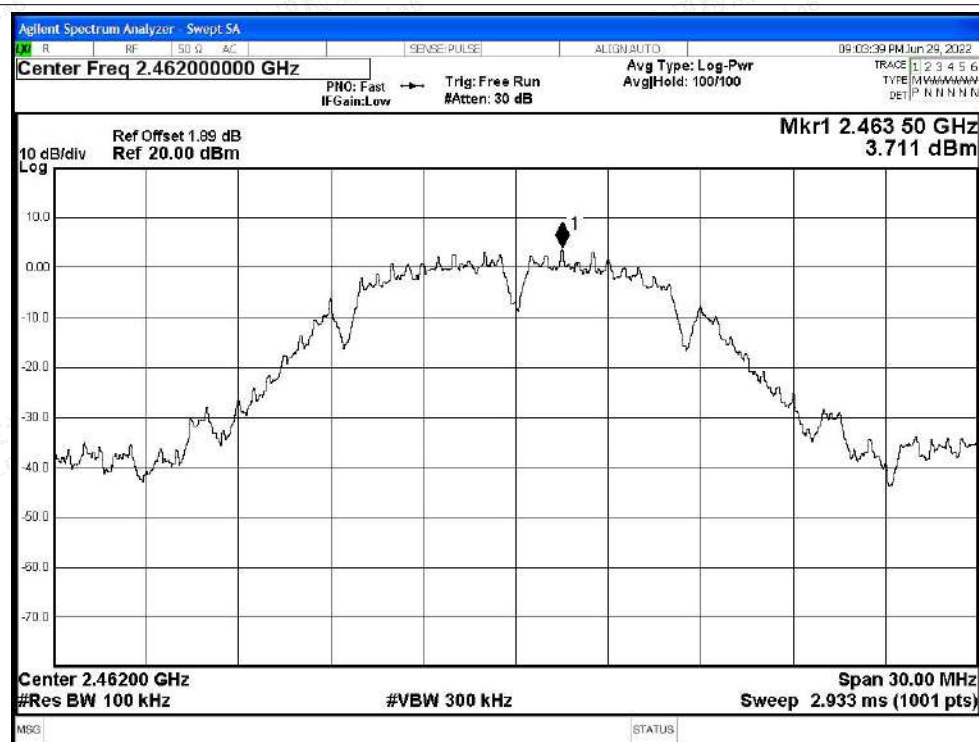
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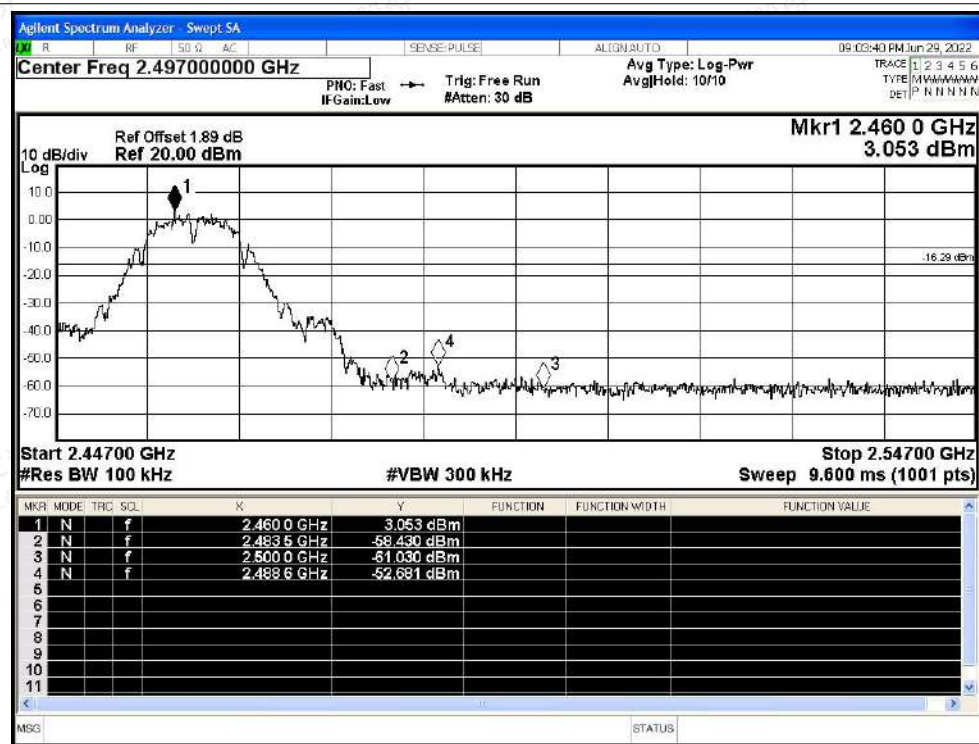
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## Band Edge NVNT b 2462MHz Ant1 Ref



## Band Edge NVNT b 2462MHz Ant1 Emission



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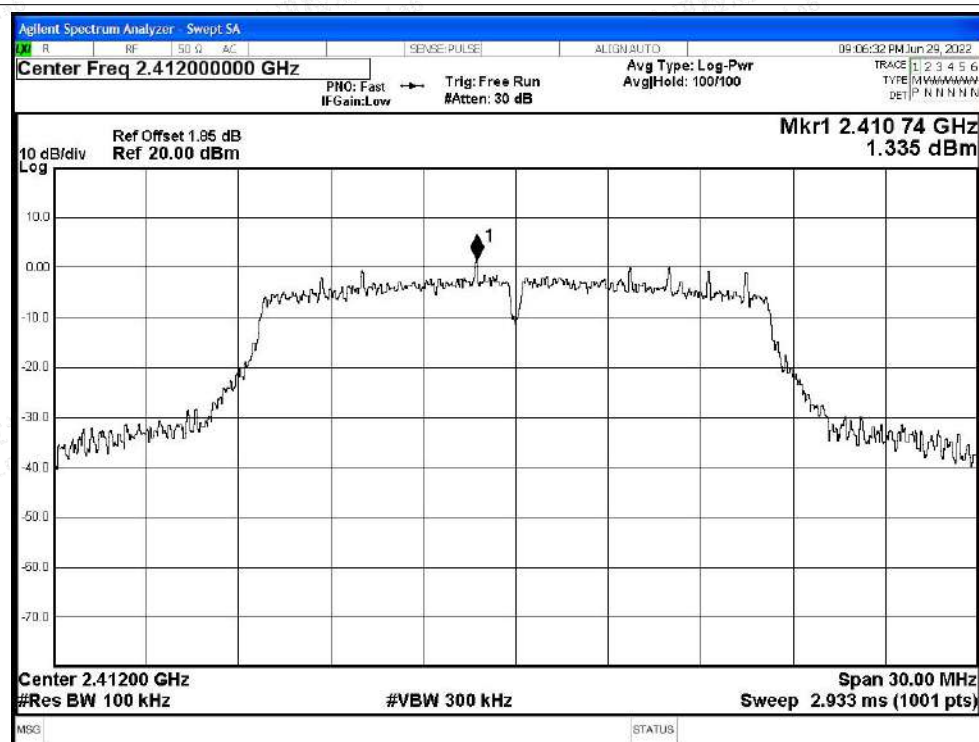
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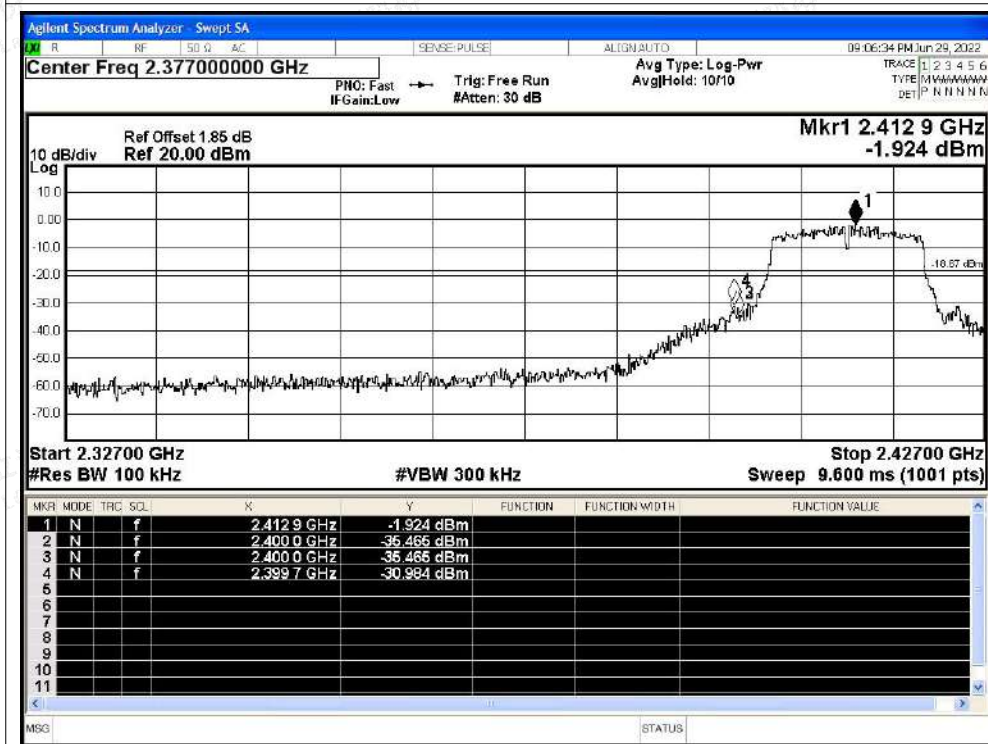
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## Band Edge NVNT g 2412MHz Ant1 Ref



## Band Edge NVNT g 2412MHz Ant1 Emission



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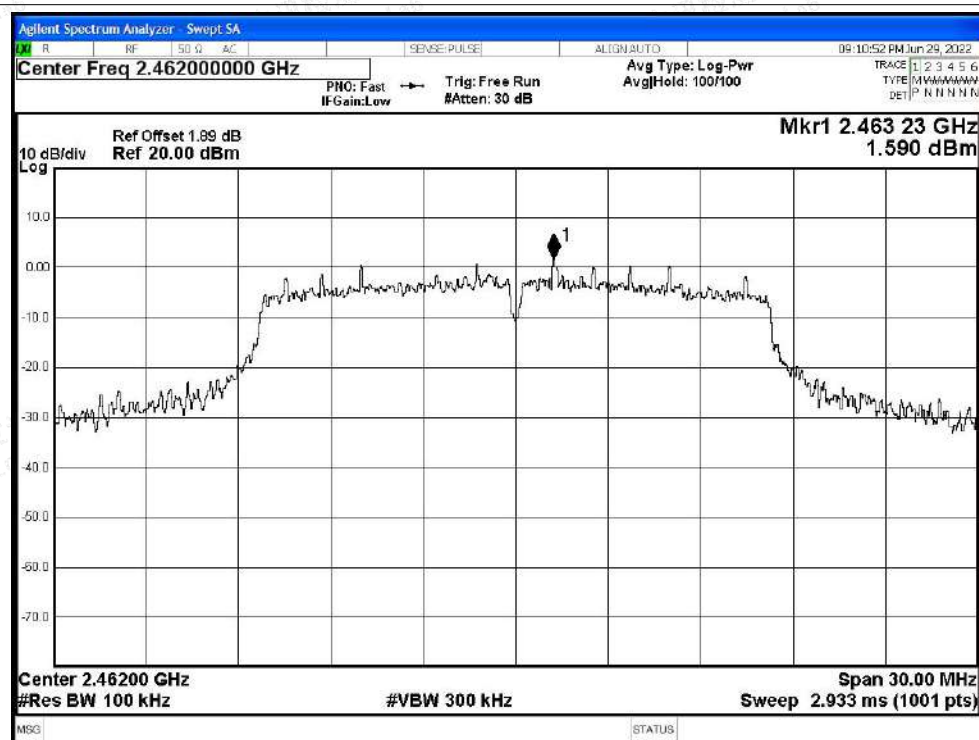
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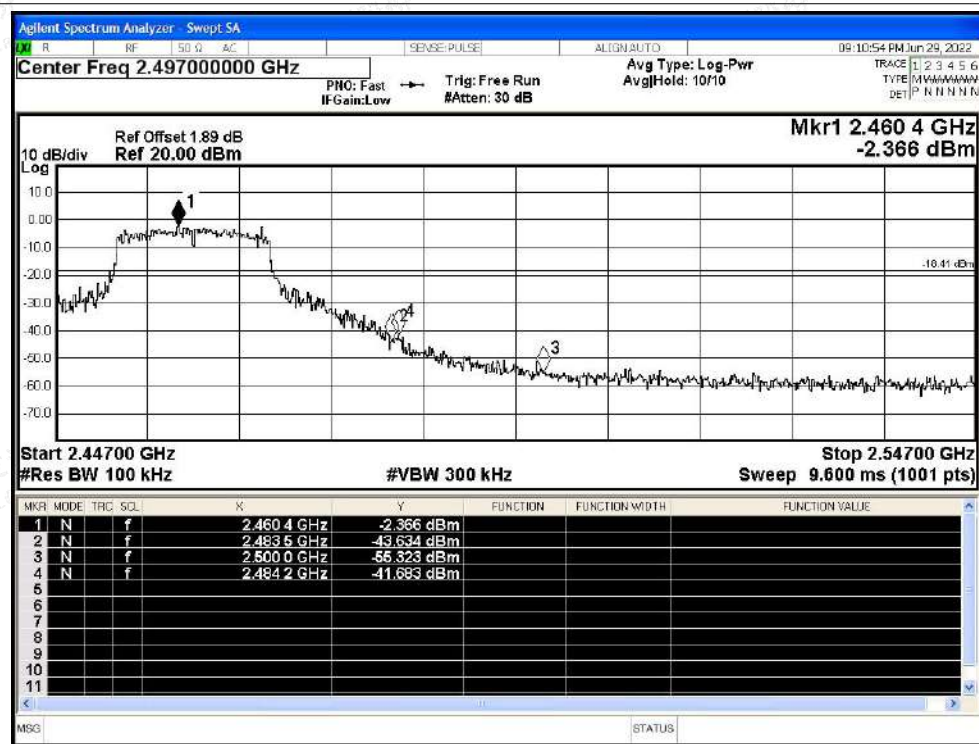
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## Band Edge NVNT g 2462MHz Ant1 Ref



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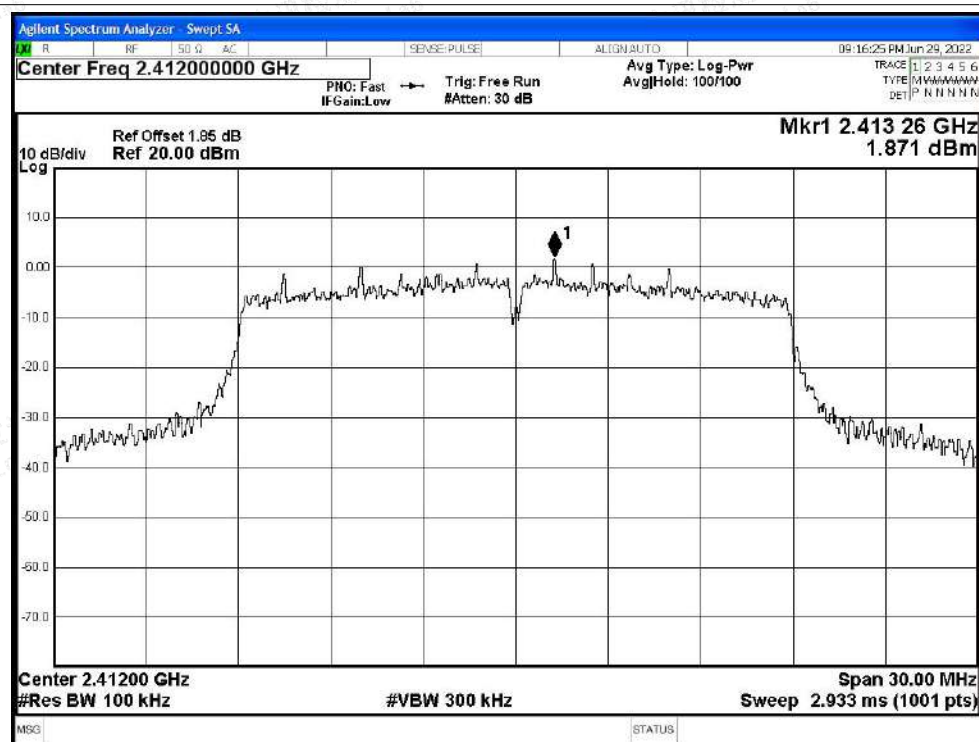
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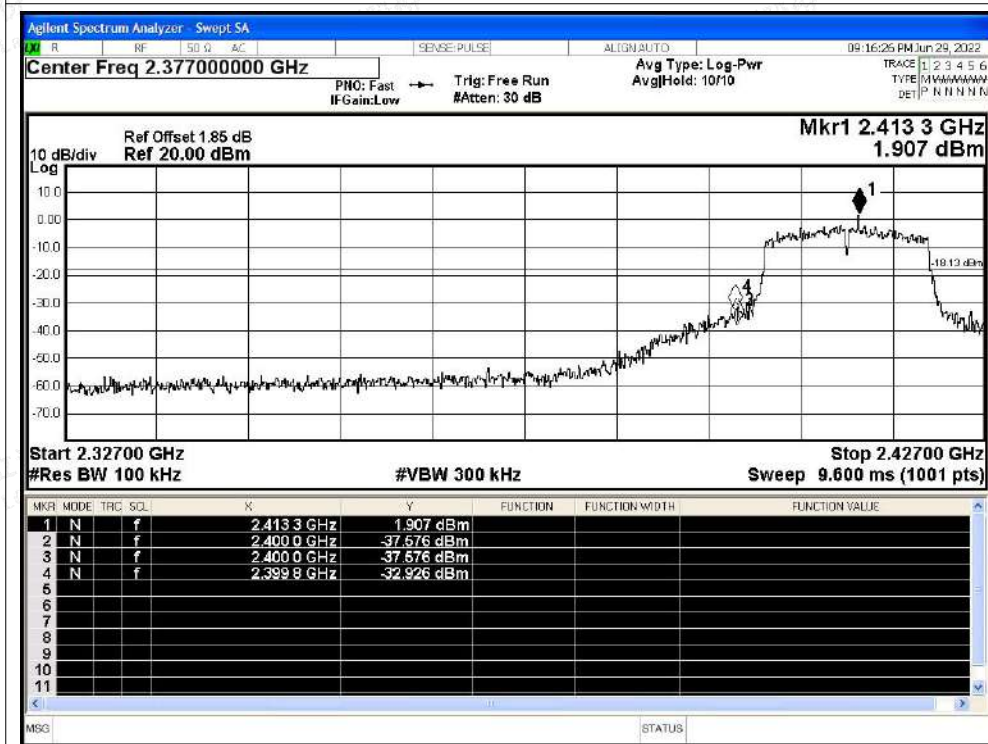
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## Band Edge NVNT n20 2412MHz Ant1 Ref



## Band Edge NVNT n20 2412MHz Ant1 Emission



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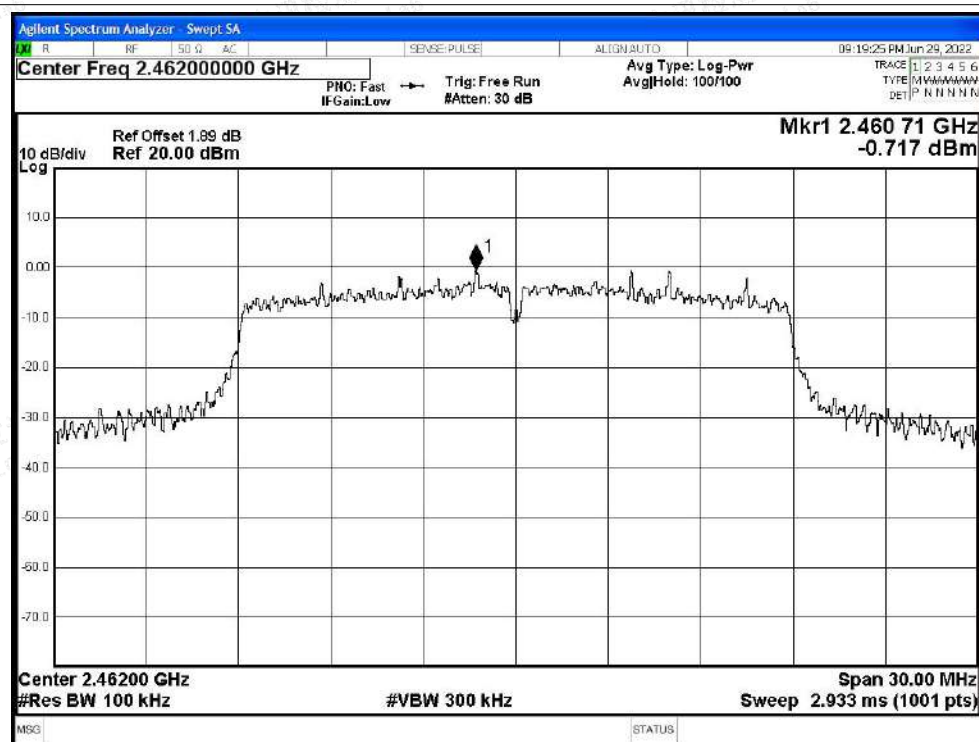
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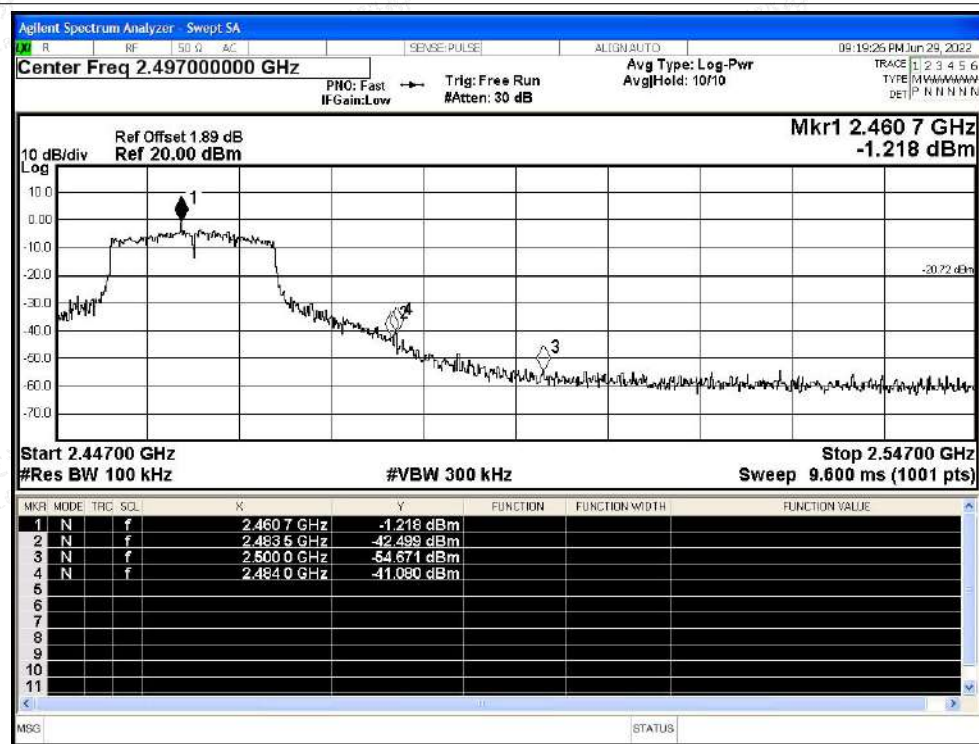
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## Band Edge NVNT n20 2462MHz Ant1 Ref



## 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    | -50.84          | -20         | Pass    |
| NVNT      | b    | 2437            | Ant1    | -49.45          | -20         | Pass    |
| NVNT      | b    | 2462            | Ant1    | -49.36          | -20         | Pass    |
| NVNT      | g    | 2412            | Ant1    | -47.56          | -20         | Pass    |
| NVNT      | g    | 2437            | Ant1    | -48.15          | -20         | Pass    |
| NVNT      | g    | 2462            | Ant1    | -46.28          | -20         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -46.94          | -20         | Pass    |
| NVNT      | n20  | 2437            | Ant1    | -48.06          | -20         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -47.2           | -20         | Pass    |



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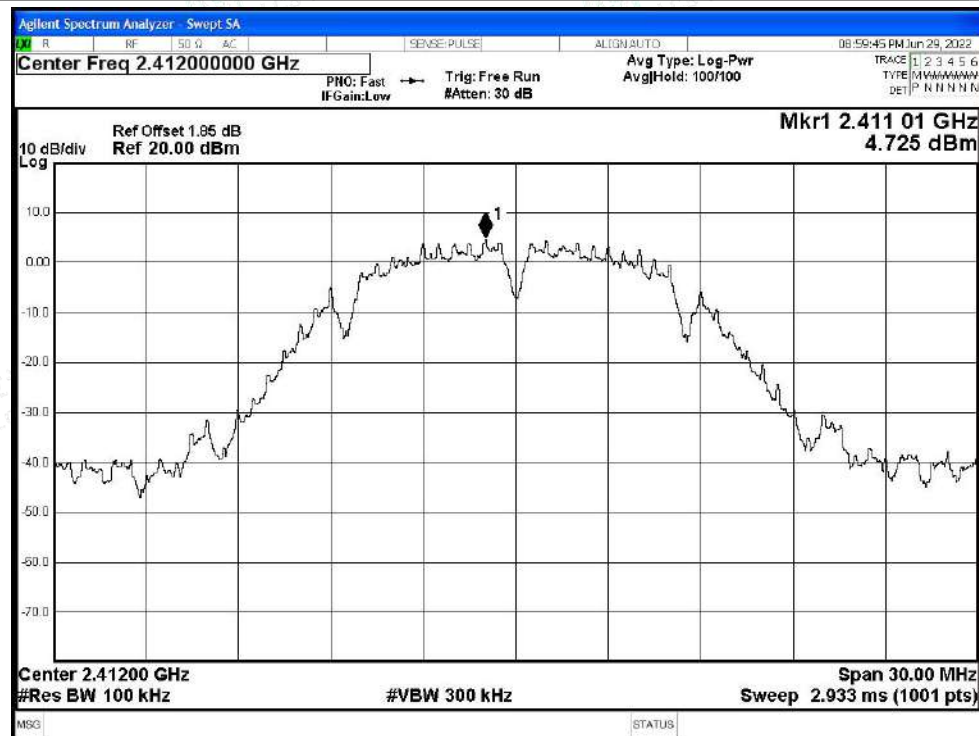
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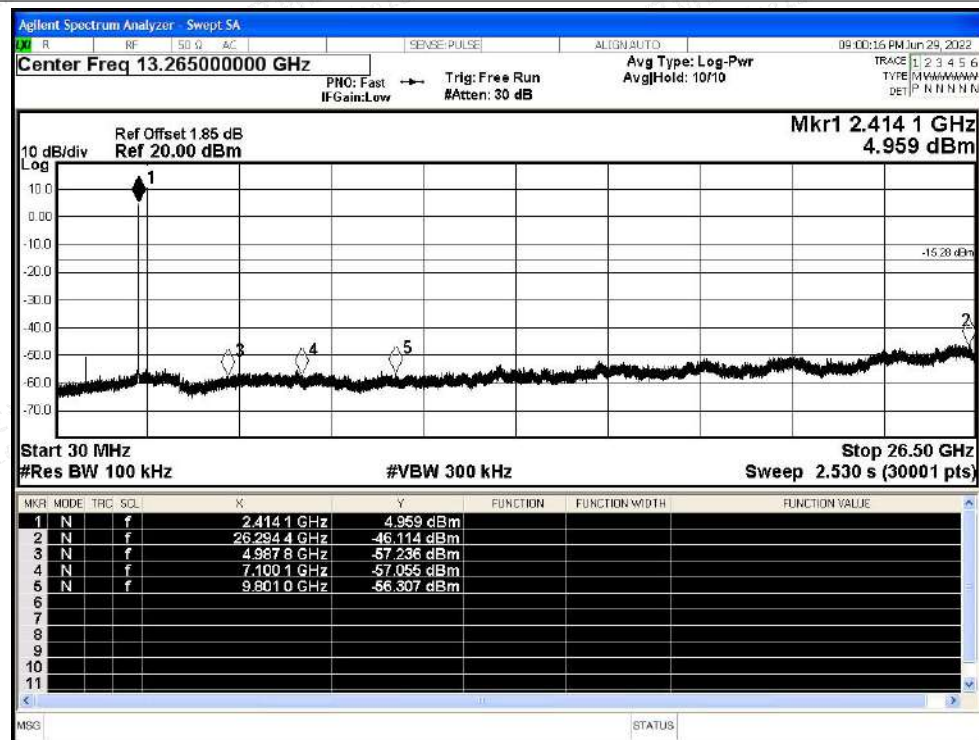


## Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



Tx. Spurious NVNT b 2412MHz Ant1 Emission



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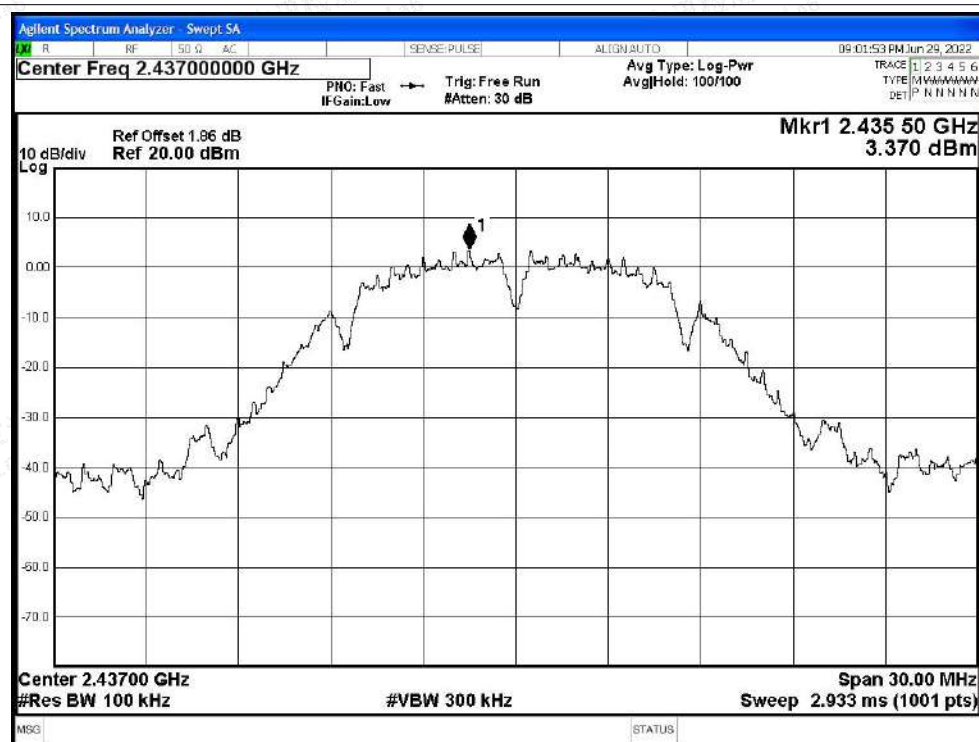
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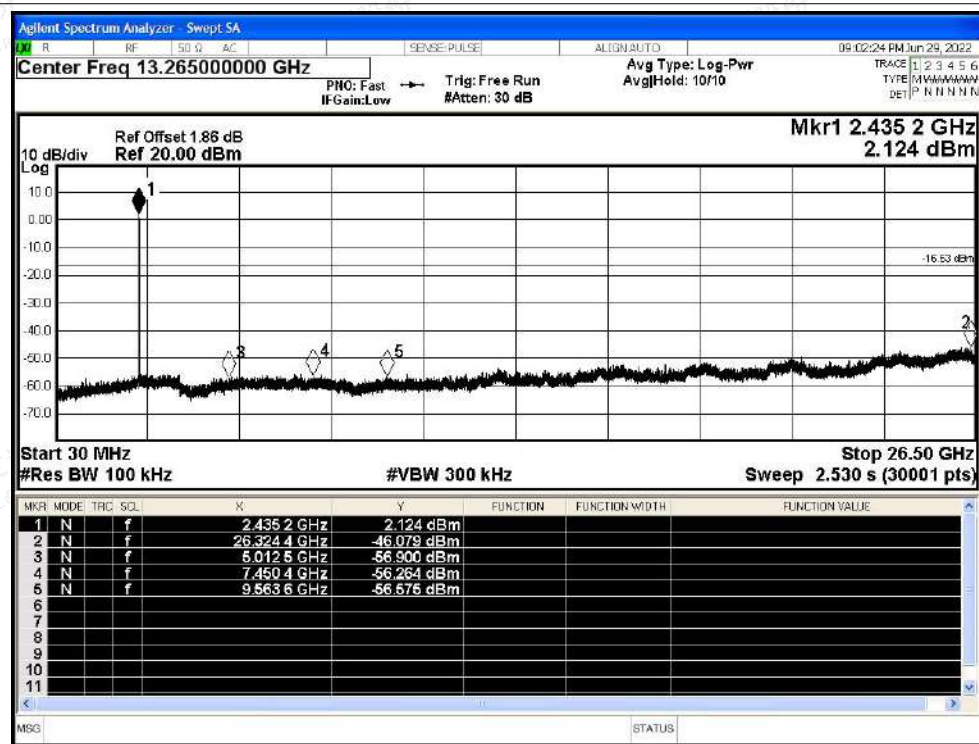
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## Tx. Spurious NVNT b 2437MHz Ant1 Ref



## Tx. Spurious NVNT b 2437MHz Ant1 Emission



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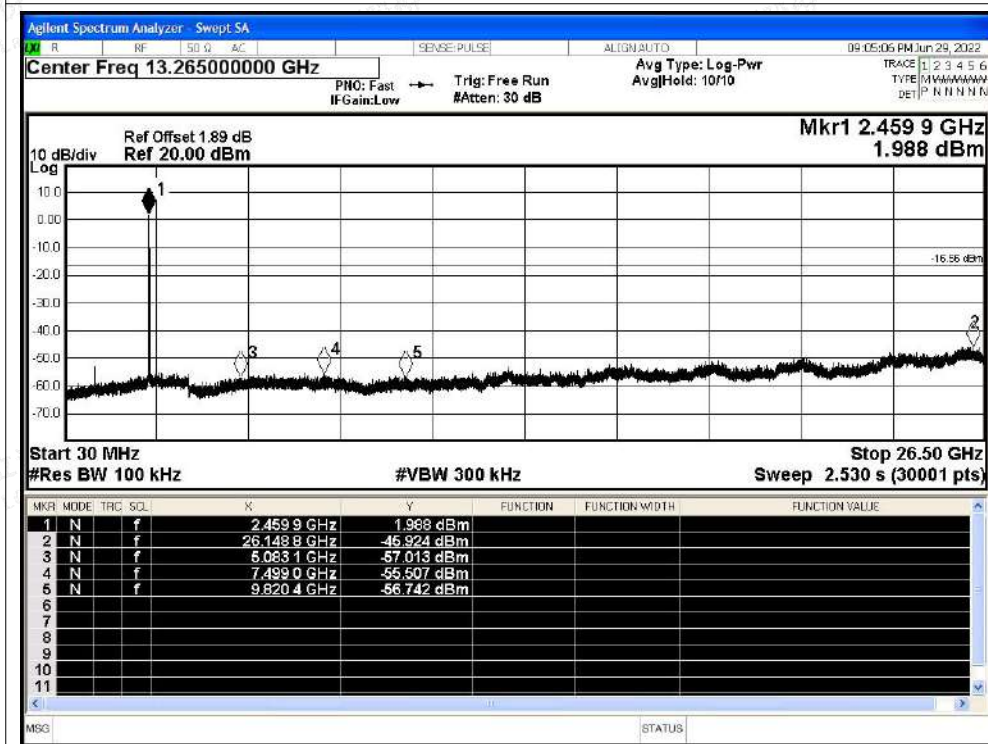
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## Tx. Spurious NVNT b 2462MHz Ant1 Ref



## Tx. Spurious NVNT b 2462MHz Ant1 Emission



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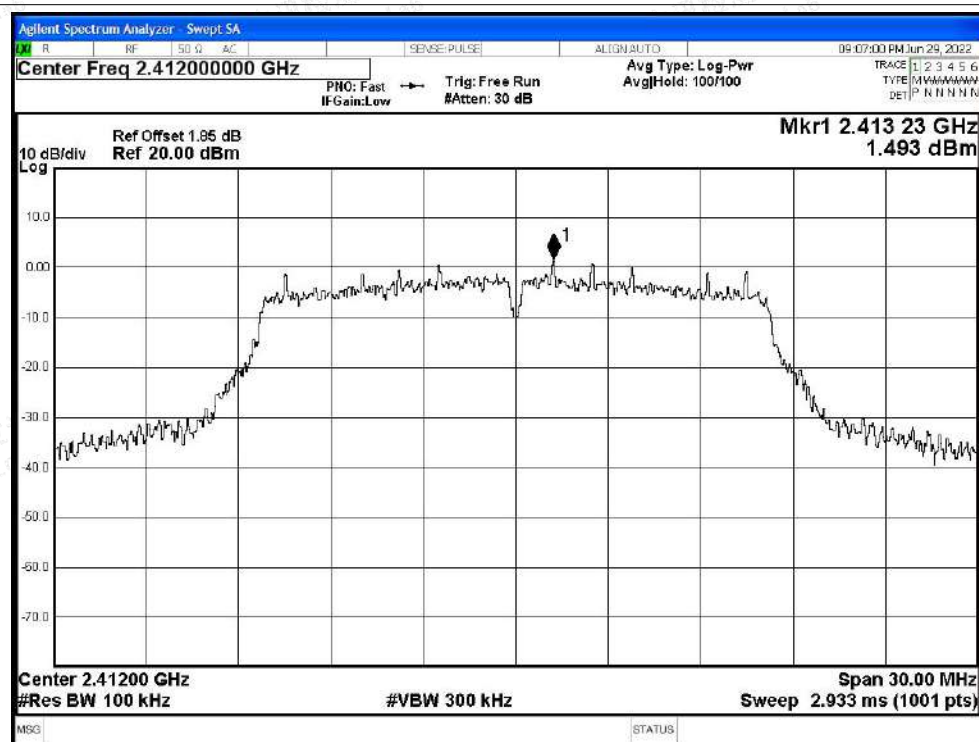
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

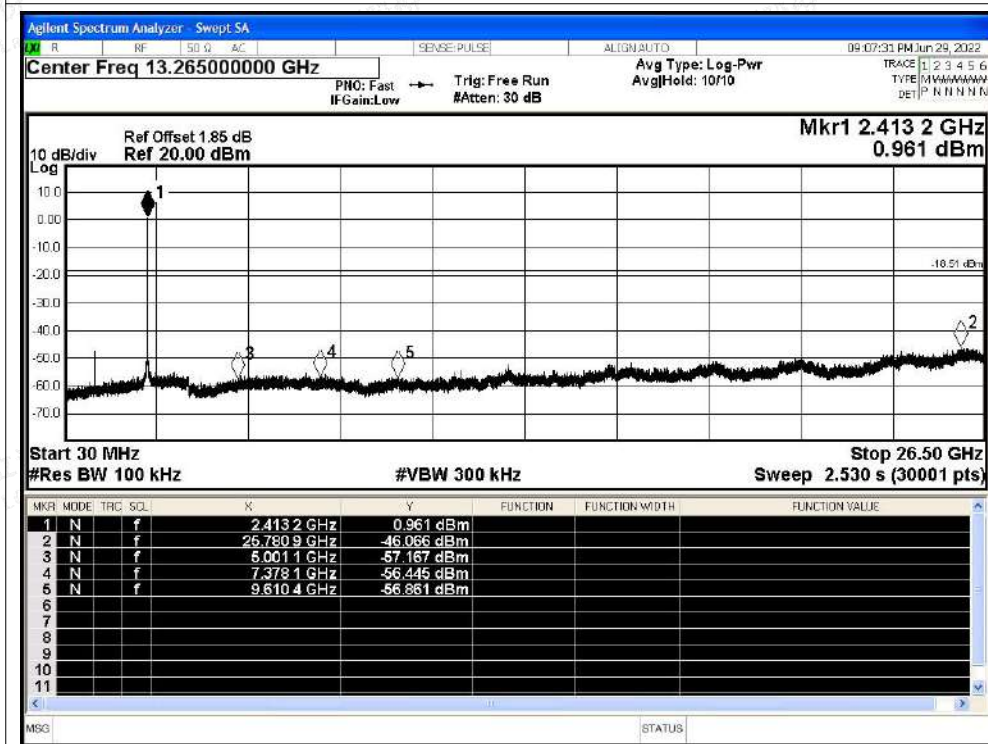
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## Tx. Spurious NVNT g 2412MHz Ant1 Ref



## Tx. Spurious NVNT g 2412MHz Ant1 Emission



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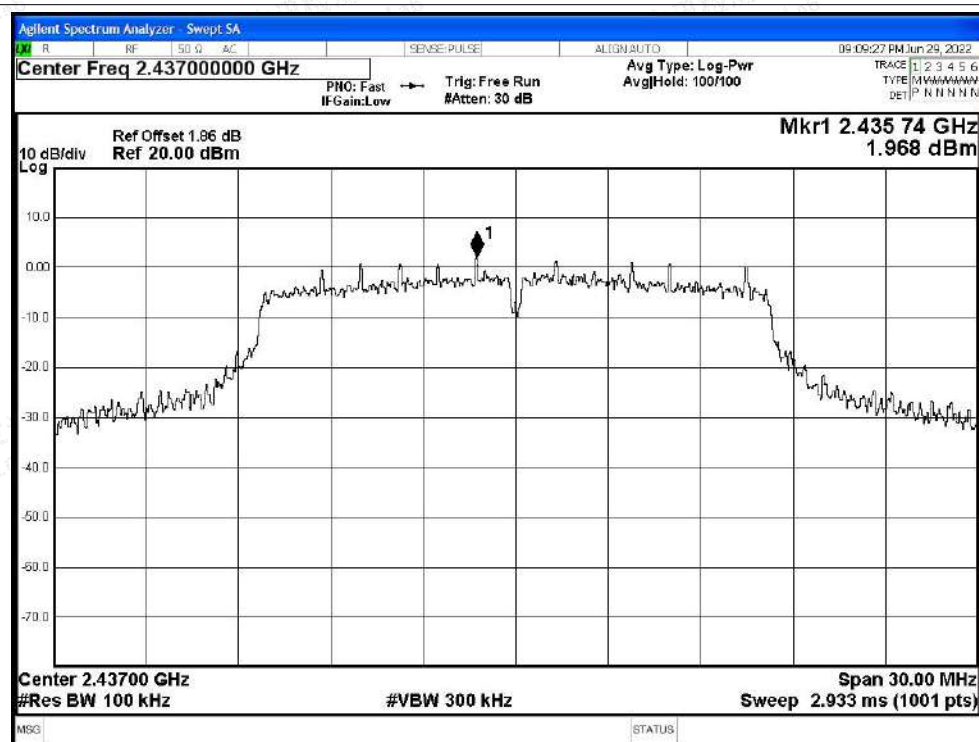
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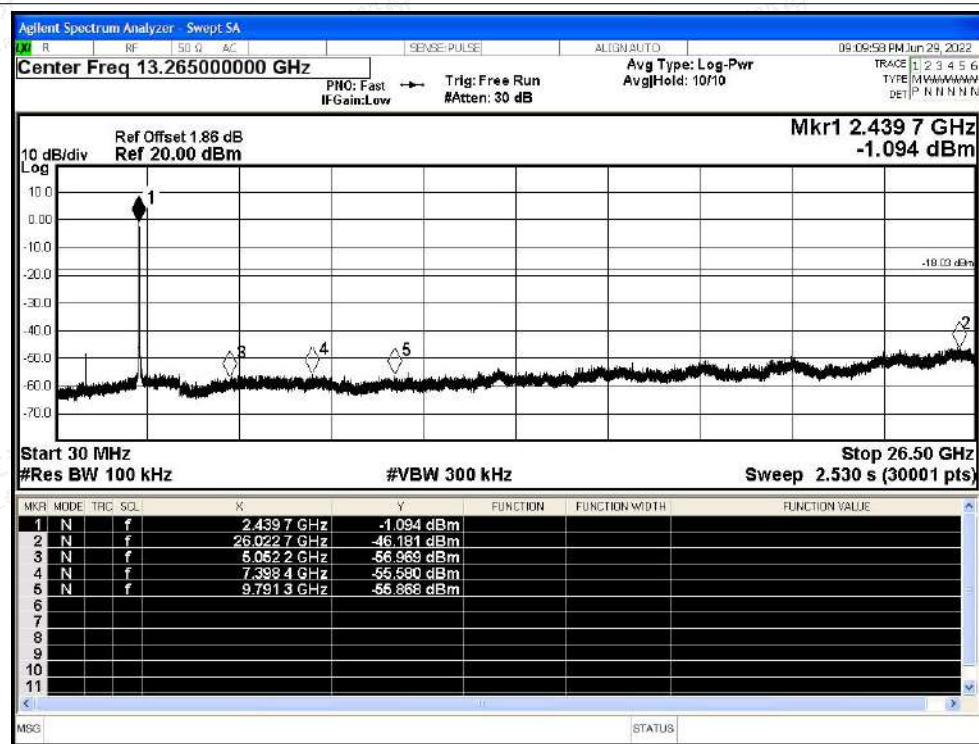
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## Tx. Spurious NVNT g 2437MHz Ant1 Ref



## Tx. Spurious NVNT g 2437MHz Ant1 Emission



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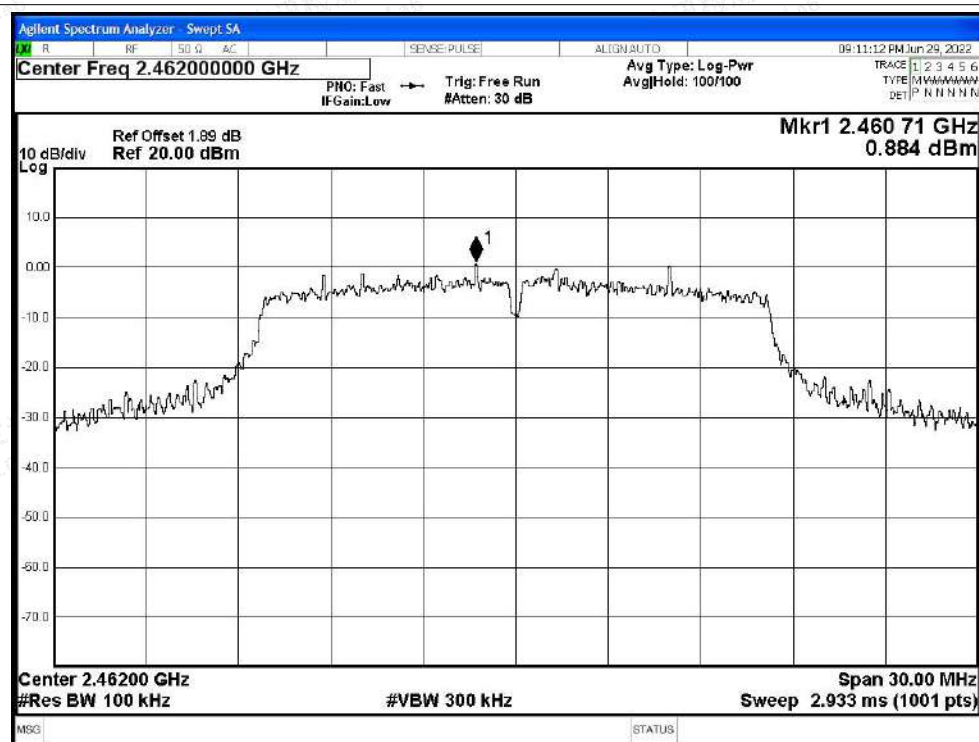
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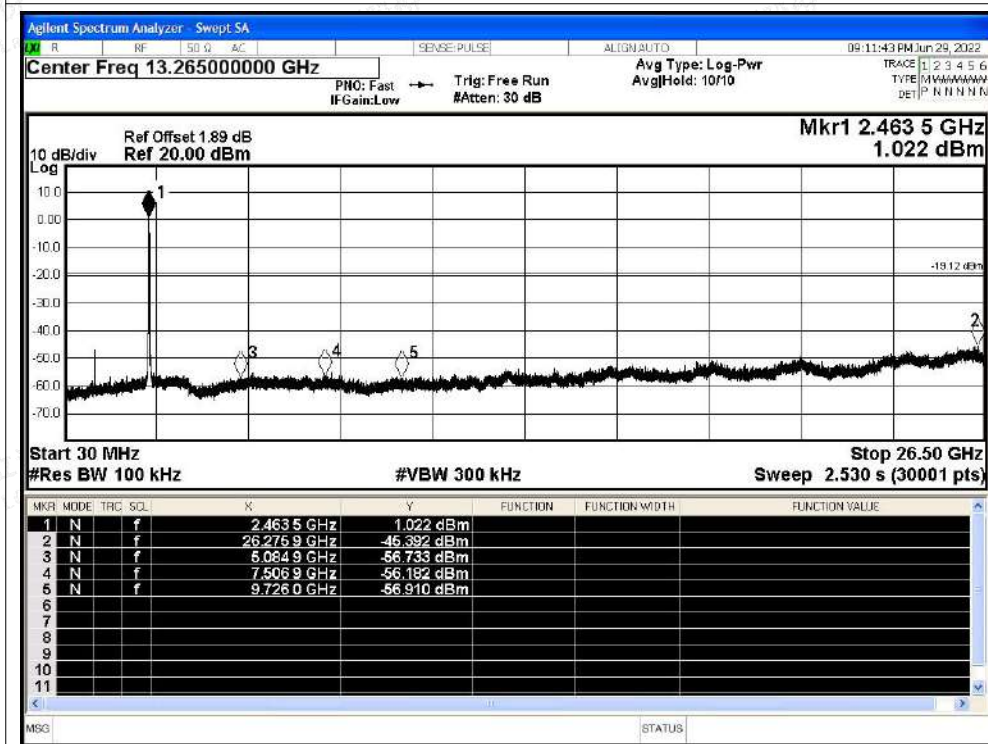
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## Tx. Spurious NVNT g 2462MHz Ant1 Ref



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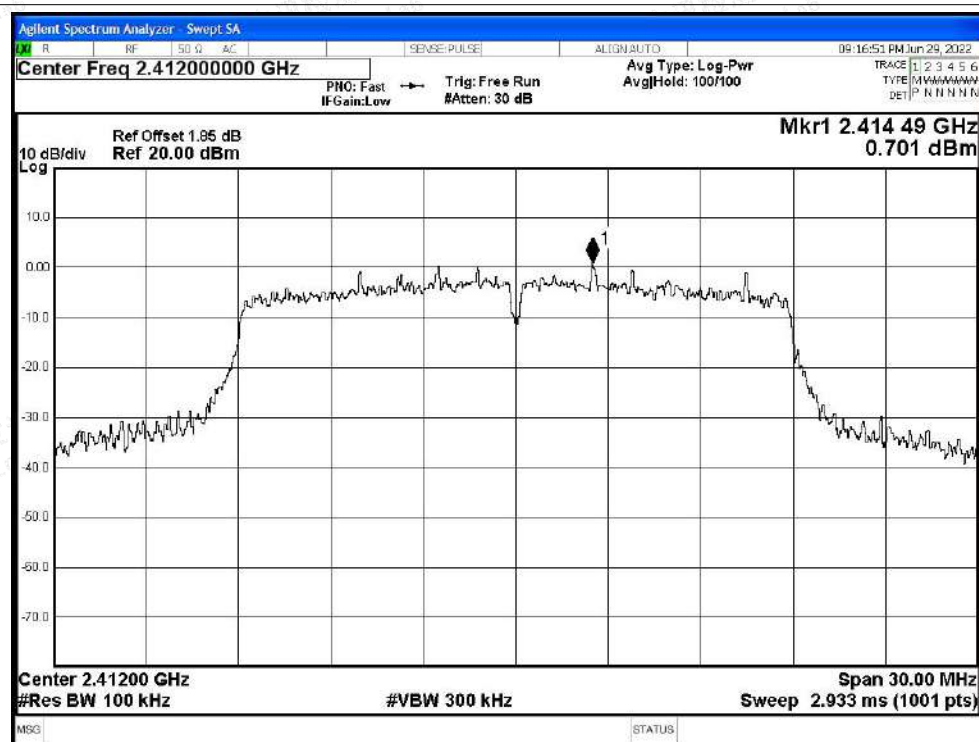
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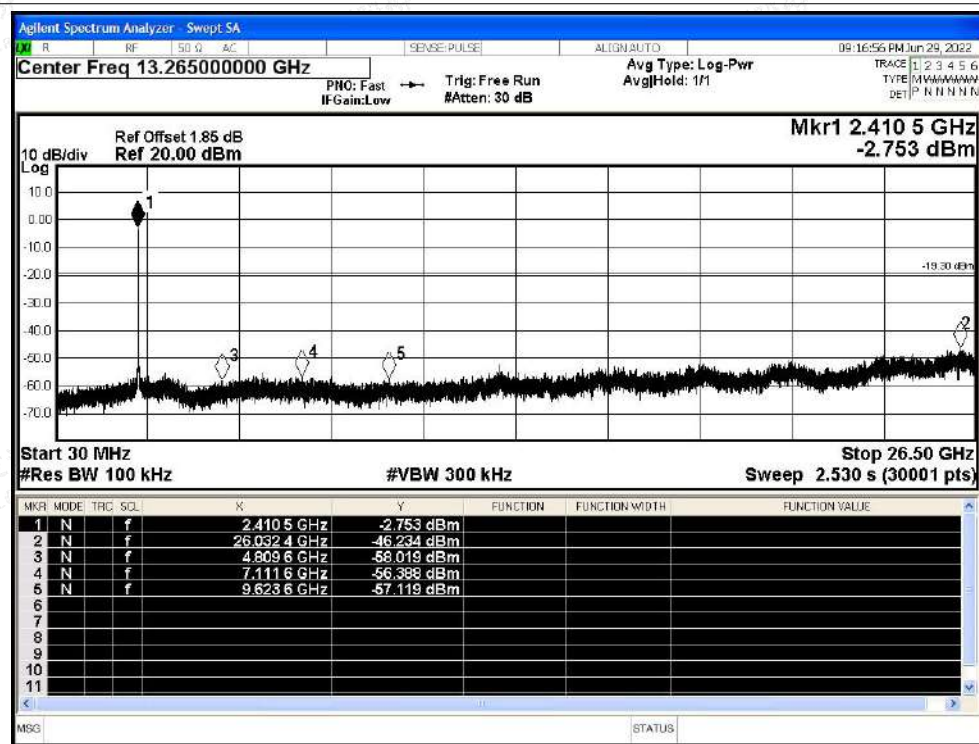
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## Tx. Spurious NVNT n20 2412MHz Ant1 Ref



## Tx. Spurious NVNT n20 2412MHz Ant1 Emission



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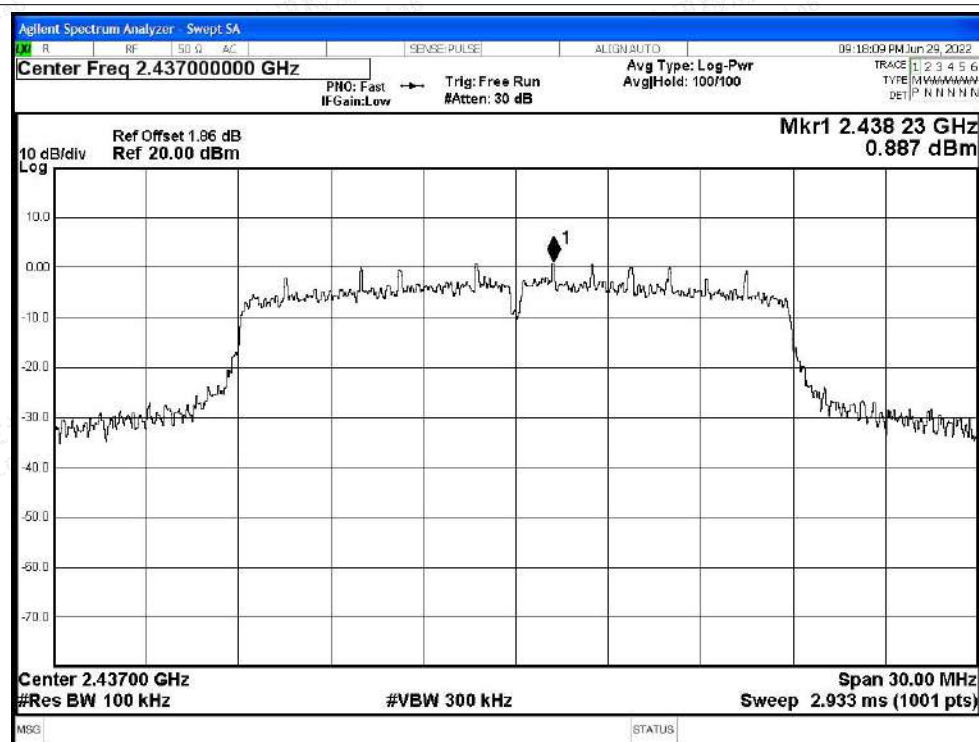
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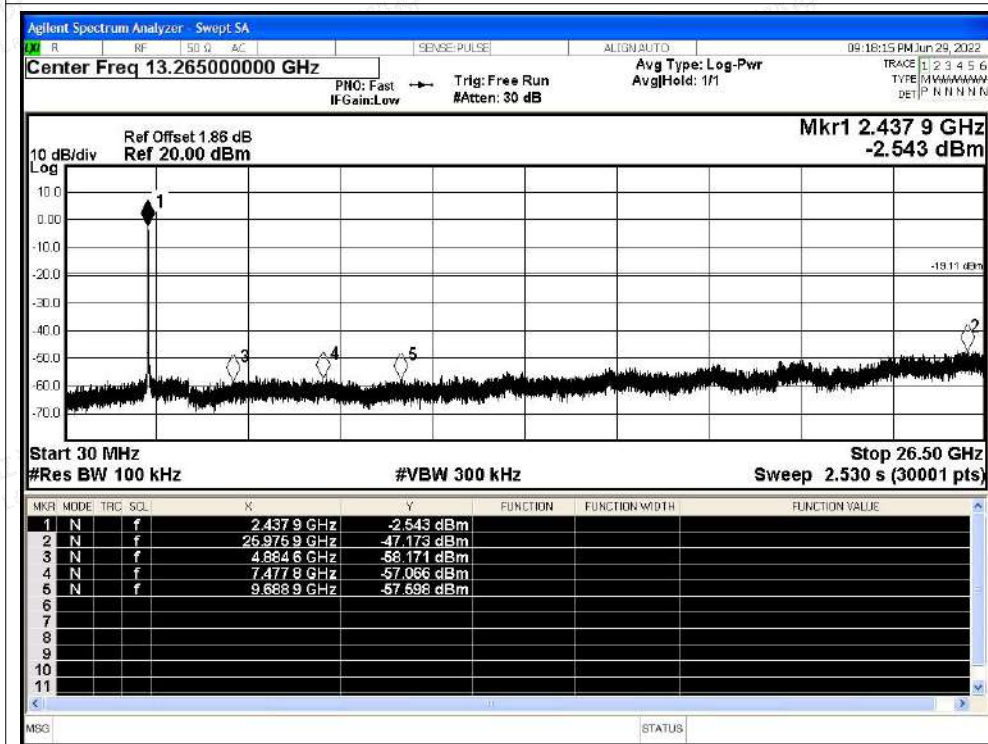
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## Tx. Spurious NVNT n20 2437MHz Ant1 Ref



## Tx. Spurious NVNT n20 2437MHz Ant1 Emission



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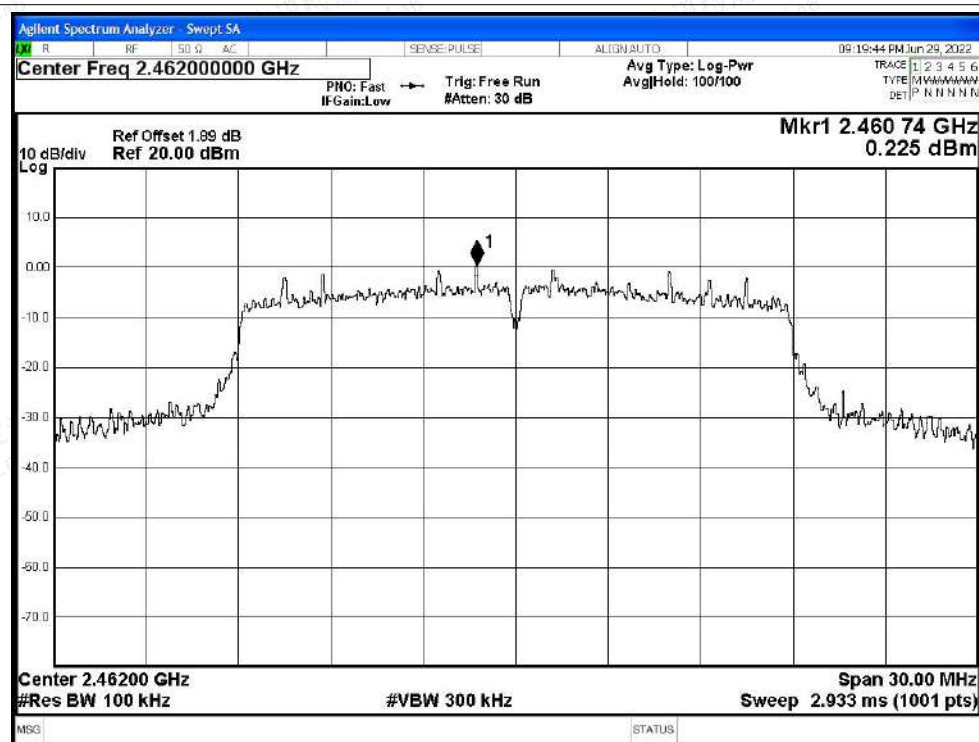
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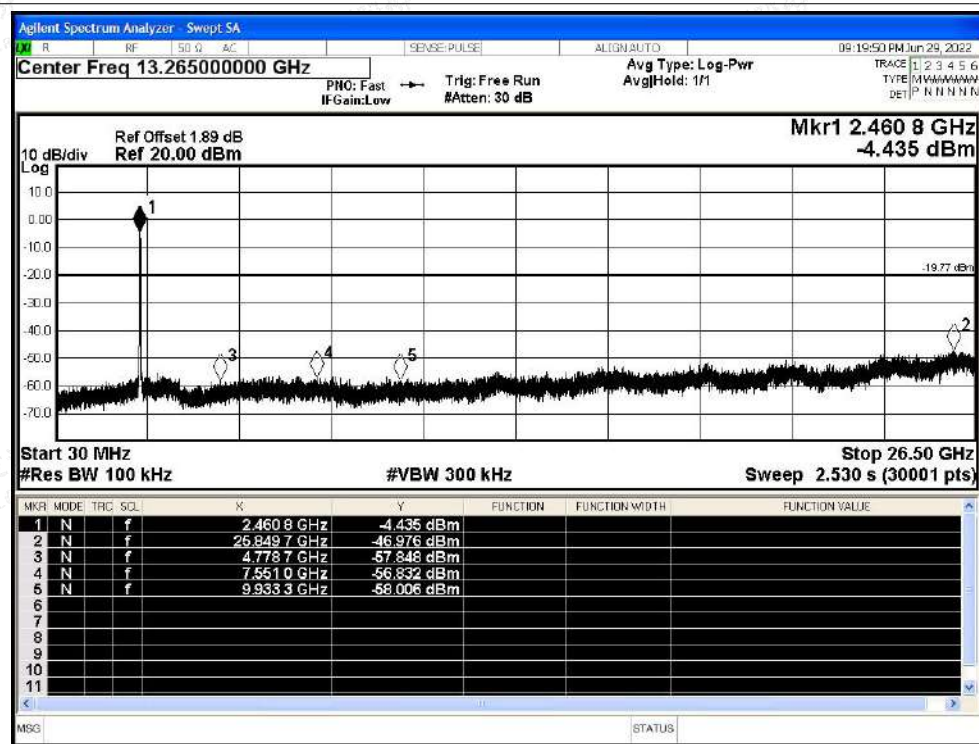
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## Tx. Spurious NVNT n20 2462MHz Ant1 Ref



## Tx. Spurious NVNT n20 2462MHz Ant1 Emission



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## B.6 Duty Cycle

| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|------|-----------------|---------|----------------|------------------------|-----------|
| NVNT      | b    | 2412            | Ant1    | 99.67          | 0                      | 0.01      |
| NVNT      | b    | 2437            | Ant1    | 99.67          | 0                      | 0.01      |
| NVNT      | b    | 2462            | Ant1    | 99.67          | 0                      | 0.01      |
| NVNT      | g    | 2412            | Ant1    | 97.62          | 0.1                    | 0.72      |
| NVNT      | g    | 2437            | Ant1    | 97.62          | 0.1                    | 0.72      |
| NVNT      | g    | 2462            | Ant1    | 97.76          | 0.1                    | 0.72      |
| NVNT      | n20  | 2412            | Ant1    | 97.46          | 0.11                   | 0.77      |
| NVNT      | n20  | 2437            | Ant1    | 97.46          | 0.11                   | 0.77      |
| NVNT      | n20  | 2462            | Ant1    | 97.46          | 0.11                   | 0.77      |



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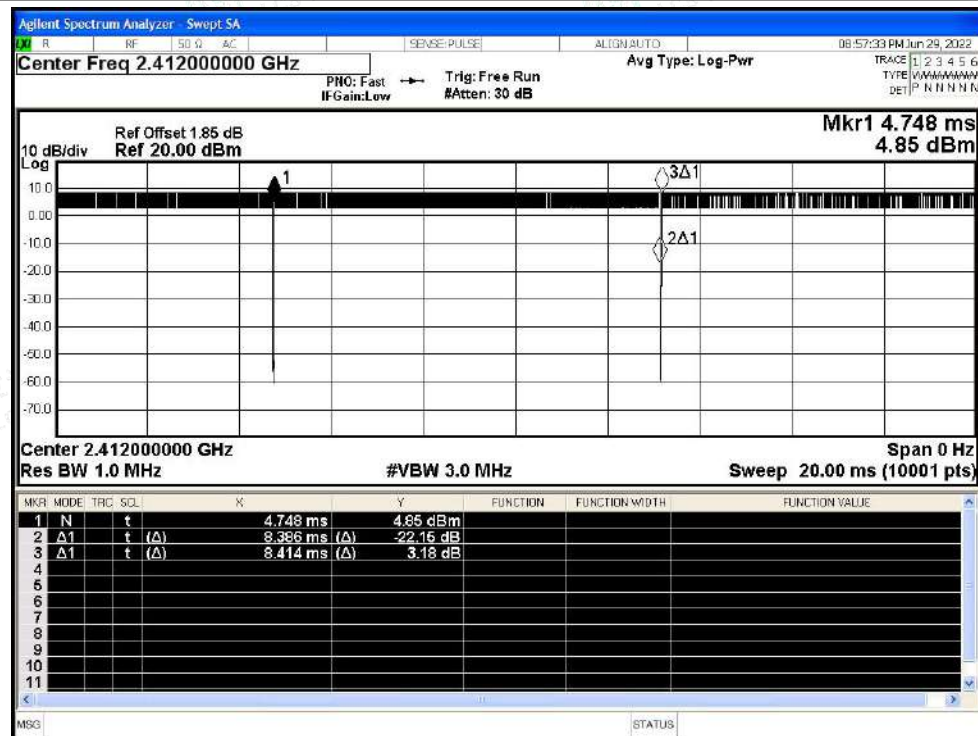
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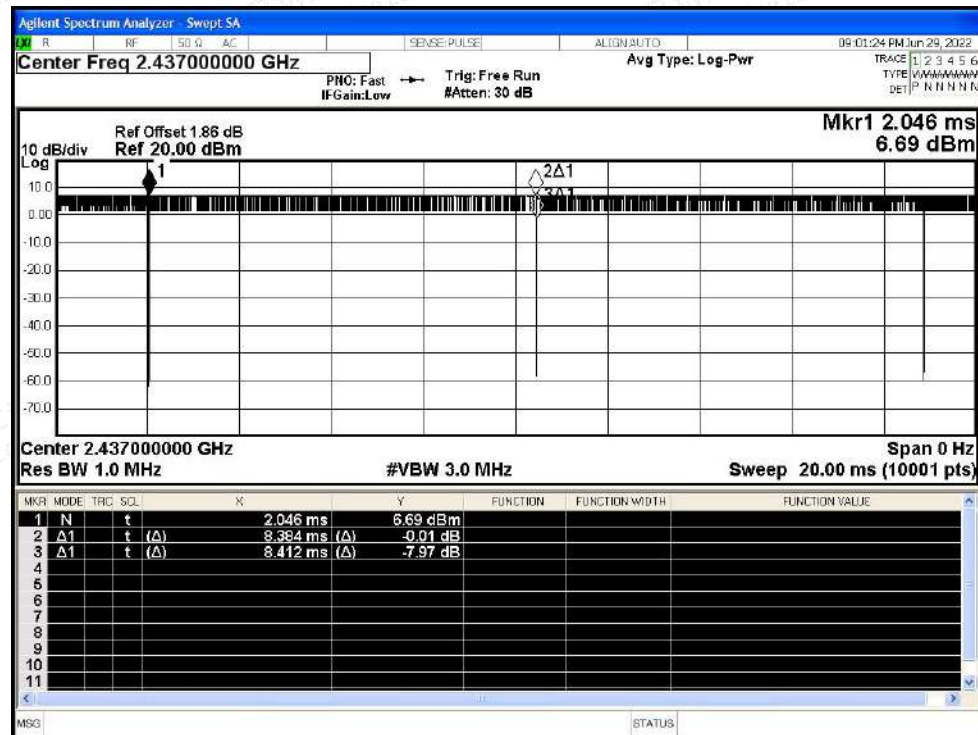


## Test Graphs

## Duty Cycle NVNT b 2412MHz Ant1



## Duty Cycle NVNT b 2437MHz Ant1



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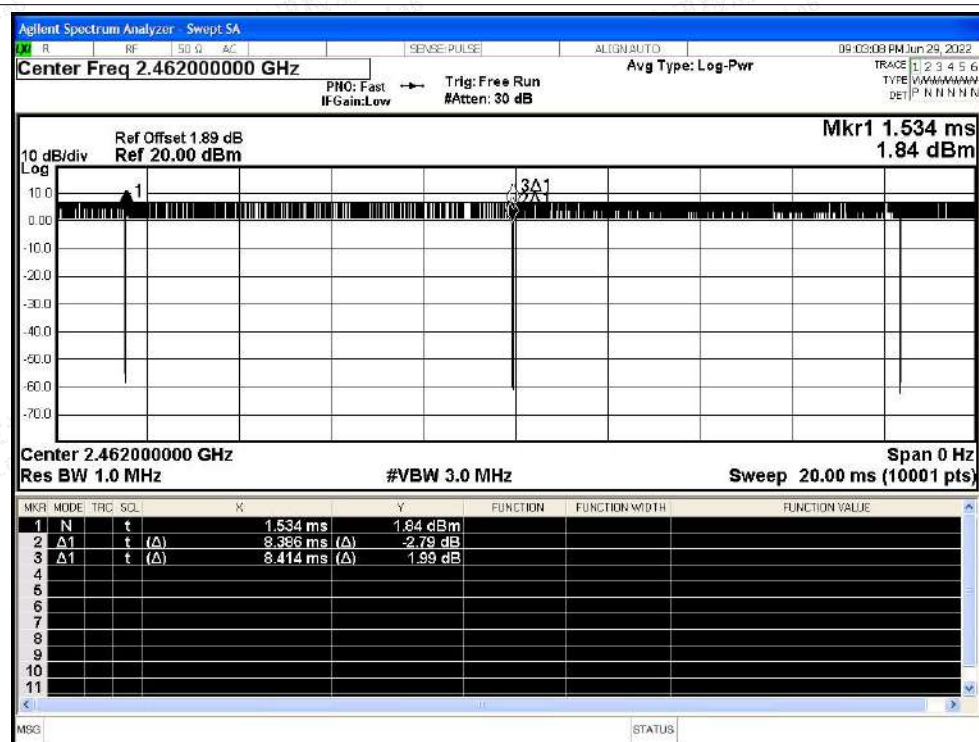
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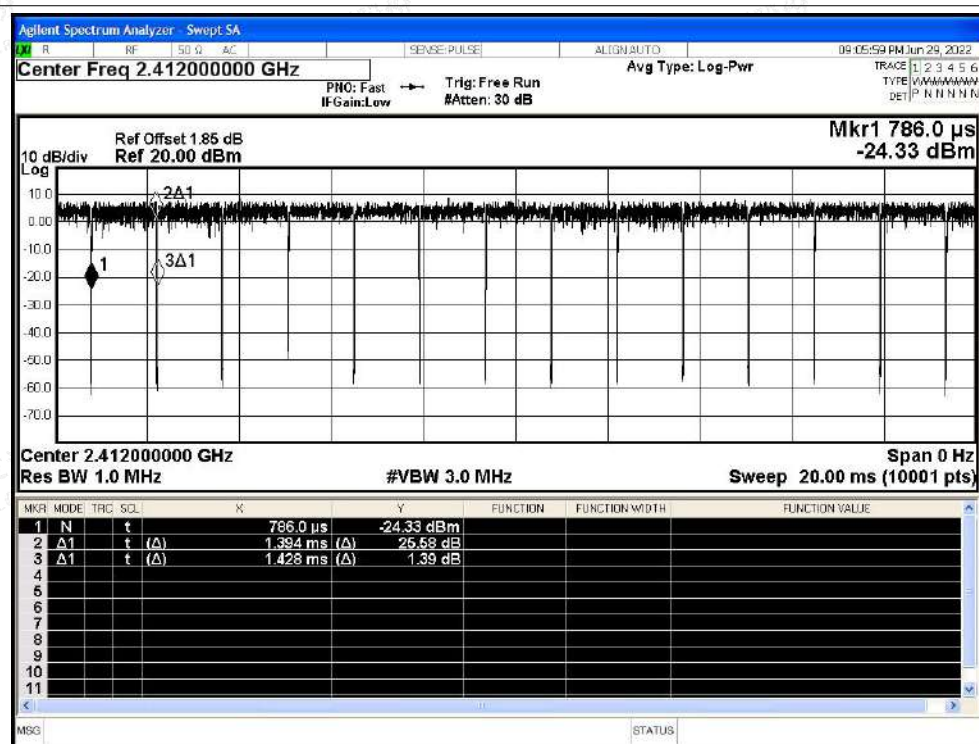
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## Duty Cycle NVNT b 2462MHz Ant1



## Duty Cycle NVNT g 2412MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

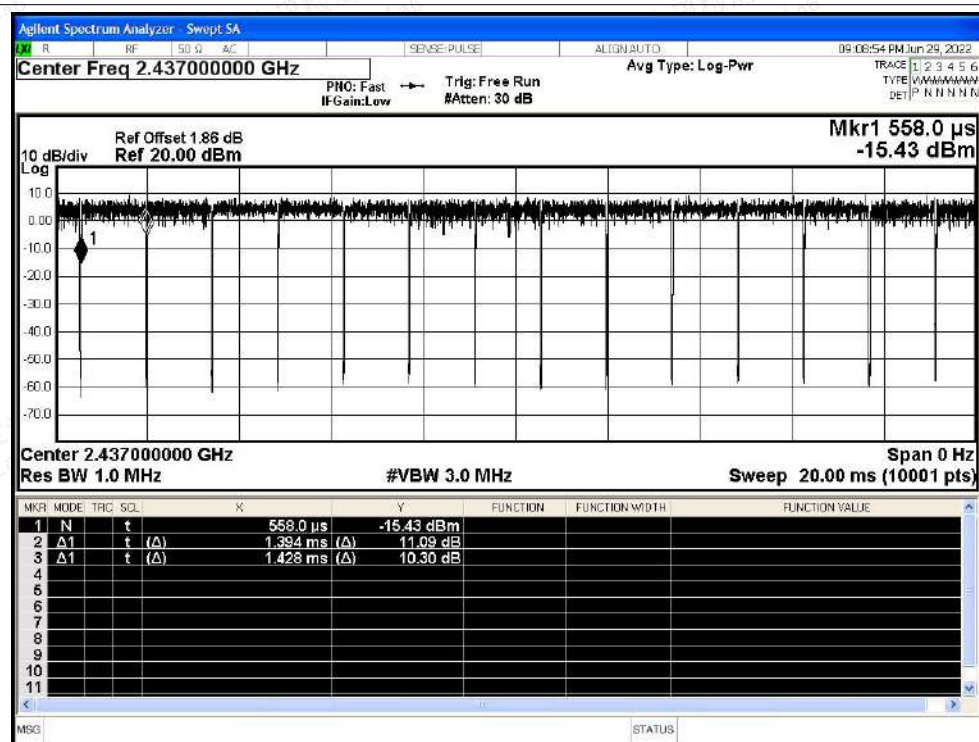
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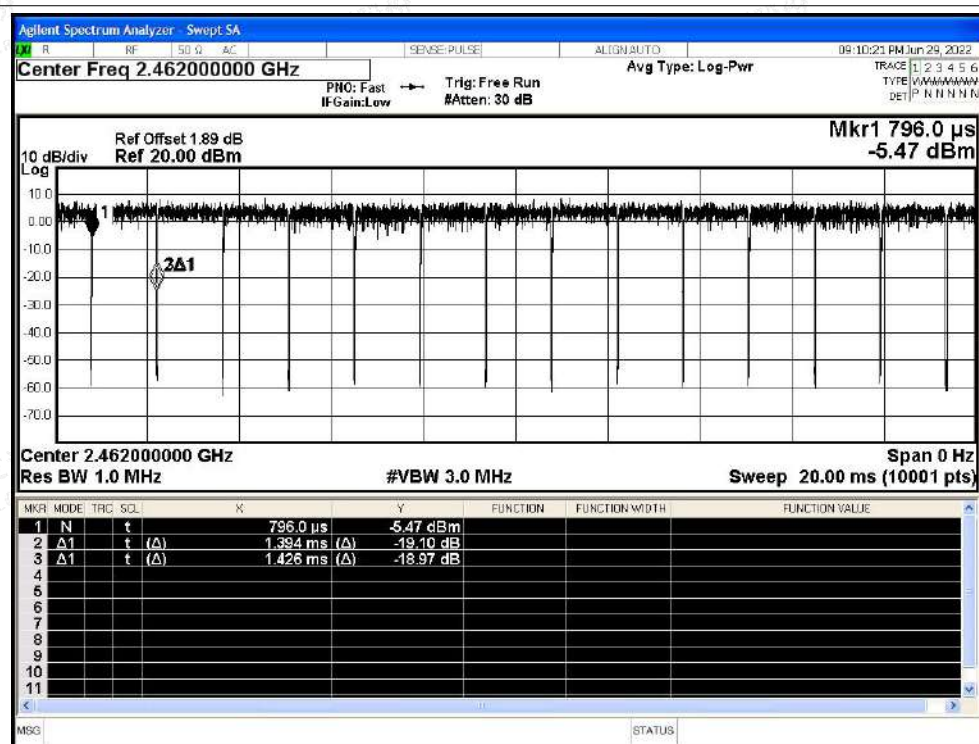
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## Duty Cycle NVNT g 2437MHz Ant1



## Duty Cycle NVNT g 2462MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

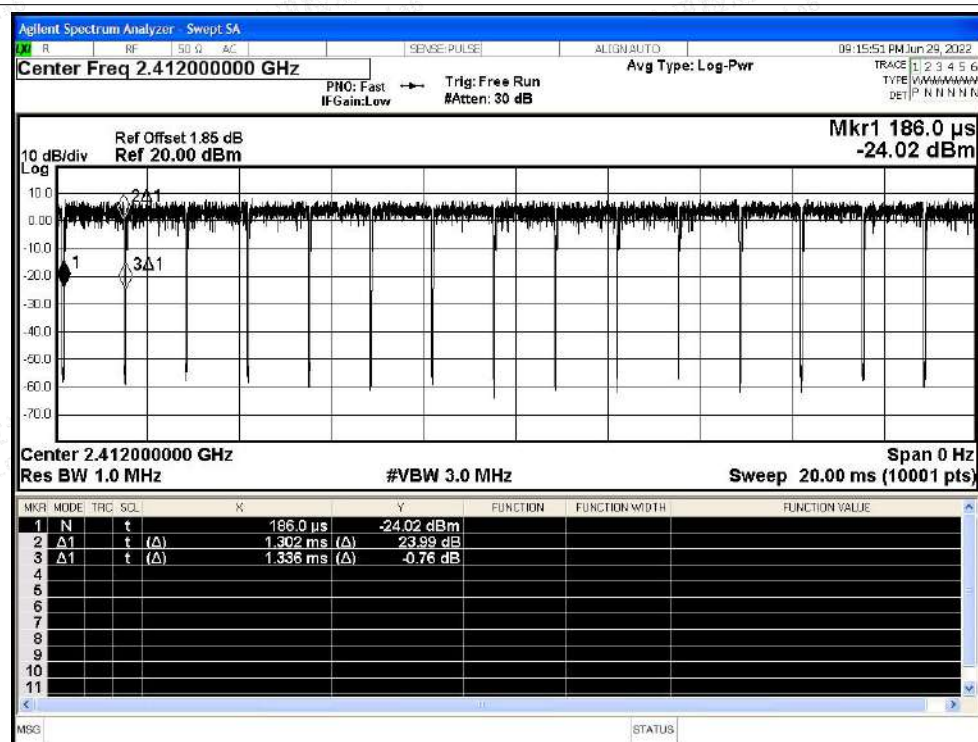
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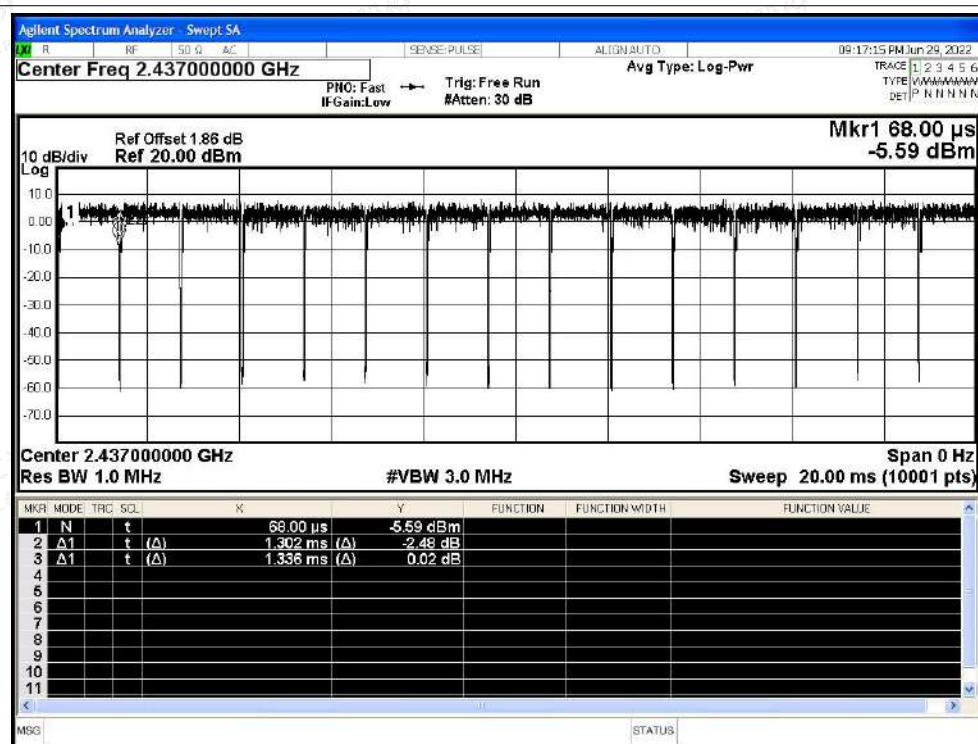
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## Duty Cycle NVNT n20 2412MHz Ant1



## Duty Cycle NVNT n20 2437MHz Ant1

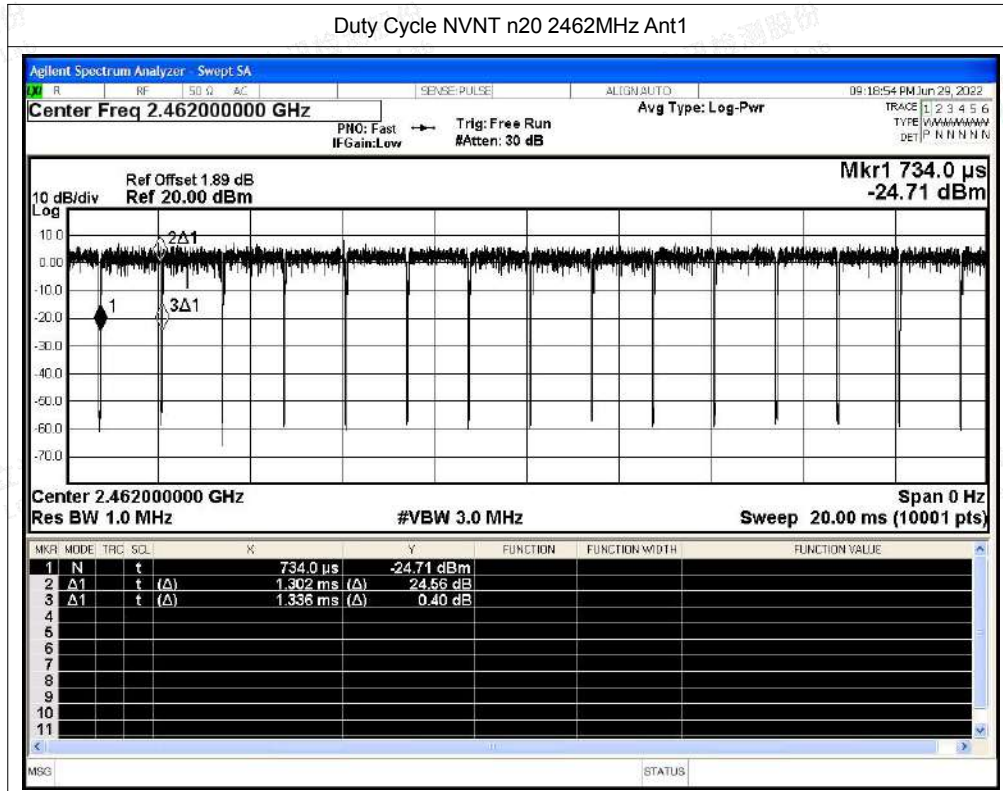


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## B.7 Restrict Band

| 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            | -49.64      | 2          | 47.62      | Peak     | 74             | Pass    |
| NVNT      | b    | 2412            | Ant1    | 2310            | -60.59      | 2          | 36.67      | Average  | 54             | Pass    |
| NVNT      | b    | 2412            | Ant1    | 2387.688        | -44.13      | 2          | 53.13      | Peak     | 74             | Pass    |
| NVNT      | b    | 2412            | Ant1    | 2386.752        | -54.12      | 2          | 43.14      | Average  | 54             | Pass    |
| NVNT      | b    | 2412            | Ant1    | 2390            | -46.17      | 2          | 51.09      | Peak     | 74             | Pass    |
| NVNT      | b    | 2412            | Ant1    | 2390            | -54.81      | 2          | 42.45      | Average  | 54             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2483.5          | -46.03      | 2          | 51.23      | Peak     | 74             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2483.5          | -54.51      | 2          | 42.75      | Average  | 54             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2488.022        | -43.69      | 2          | 53.57      | Peak     | 74             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2488.552        | -53.95      | 2          | 43.31      | Average  | 54             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2500            | -50.81      | 2          | 46.45      | Peak     | 74             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2500            | -58.99      | 2          | 38.27      | Average  | 54             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2310            | -50.11      | 2          | 47.15      | Peak     | 74             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2310            | -59.48      | 2          | 37.78      | Average  | 54             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2387.805        | -30.09      | 2          | 67.17      | Peak     | 74             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2389.911        | -49.06      | 2          | 48.2       | Average  | 54             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2390            | -33.81      | 2          | 63.45      | Peak     | 74             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2390            | -48.8       | 2          | 48.46      | Average  | 54             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2483.5          | -39.53      | 2          | 57.73      | Peak     | 74             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2483.5          | -51.24      | 2          | 46.02      | Average  | 54             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2484.895        | -34.54      | 2          | 62.72      | Peak     | 74             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2483.57         | -51.18      | 2          | 46.08      | Average  | 54             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2500            | -47.11      | 2          | 50.15      | Peak     | 74             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2500            | -56.52      | 2          | 40.74      | Average  | 54             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2310            | -50.09      | 2          | 47.17      | Peak     | 74             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2310            | -59.57      | 2          | 37.69      | Average  | 54             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2389.209        | -29.01      | 2          | 68.25      | Peak     | 74             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2389.911        | -46.6       | 2          | 50.66      | Average  | 54             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2390            | -30.13      | 2          | 67.13      | Peak     | 74             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2390            | -46.46      | 2          | 50.8       | Average  | 54             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2483.5          | -29.3       | 2          | 67.96      | Peak     | 74             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2483.5          | -43.45      | 2          | 53.81      | Average  | 54             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2483.888        | -26.18      | 2          | 71.08      | Peak     | 74             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2483.623        | -43.44      | 2          | 53.82      | Average  | 54             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2500            | -44.82      | 2          | 52.44      | Peak     | 74             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2500            | -55.02      | 2          | 42.24      | Average  | 54             | Pass    |



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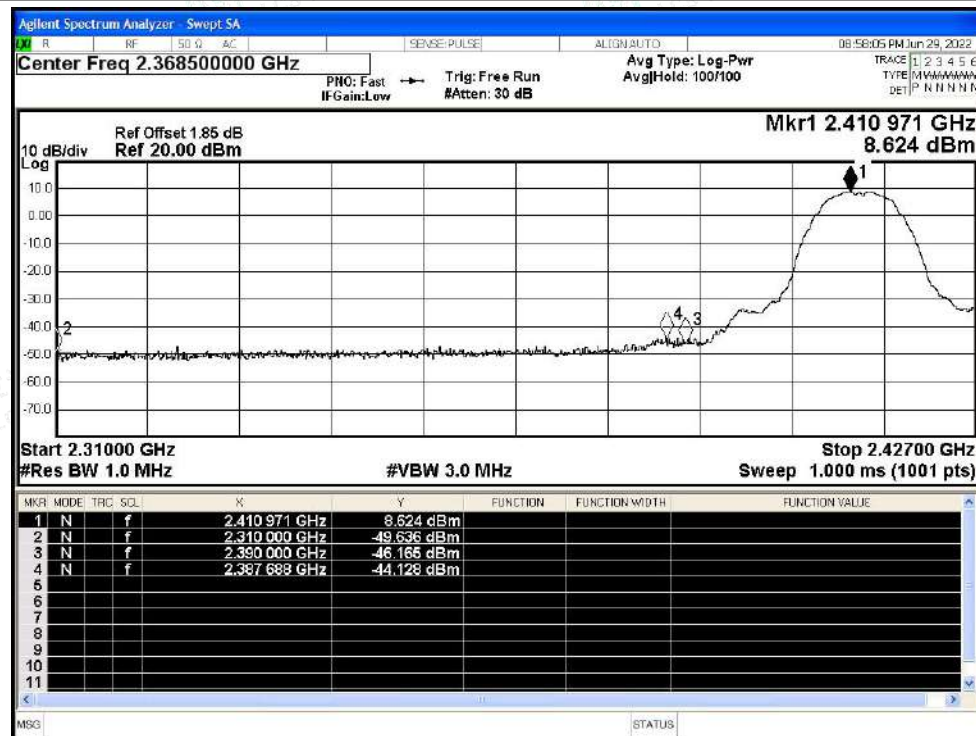
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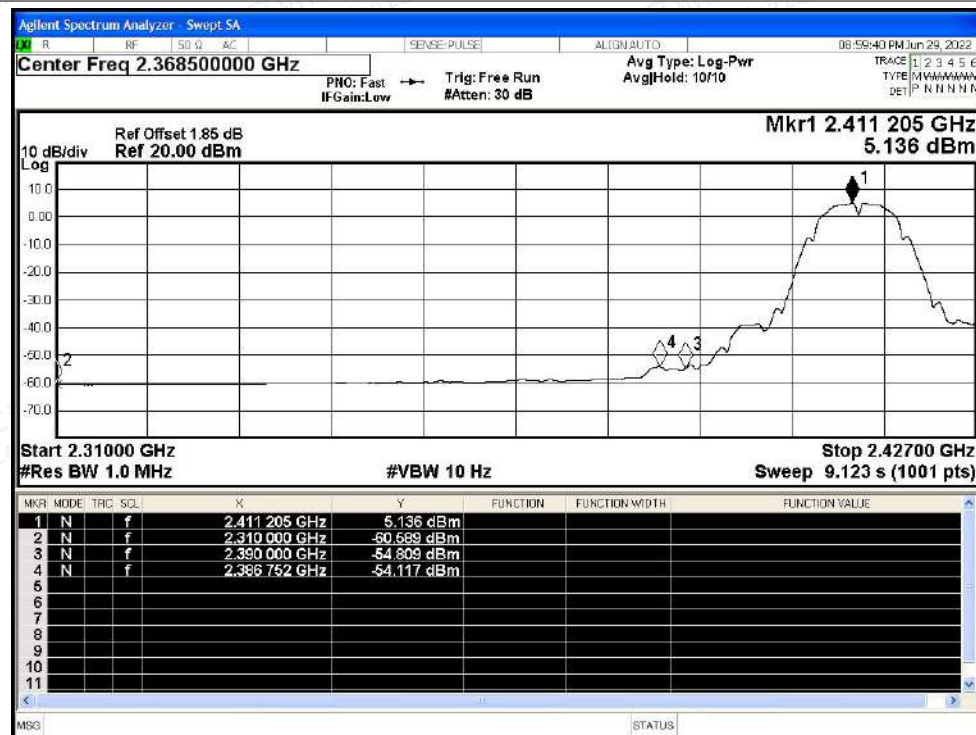


## Test Graphs

## Restrict Band NVNT b 2412MHz Ant1 Peak



## Restrict Band NVNT b 2412MHz Ant1 Average



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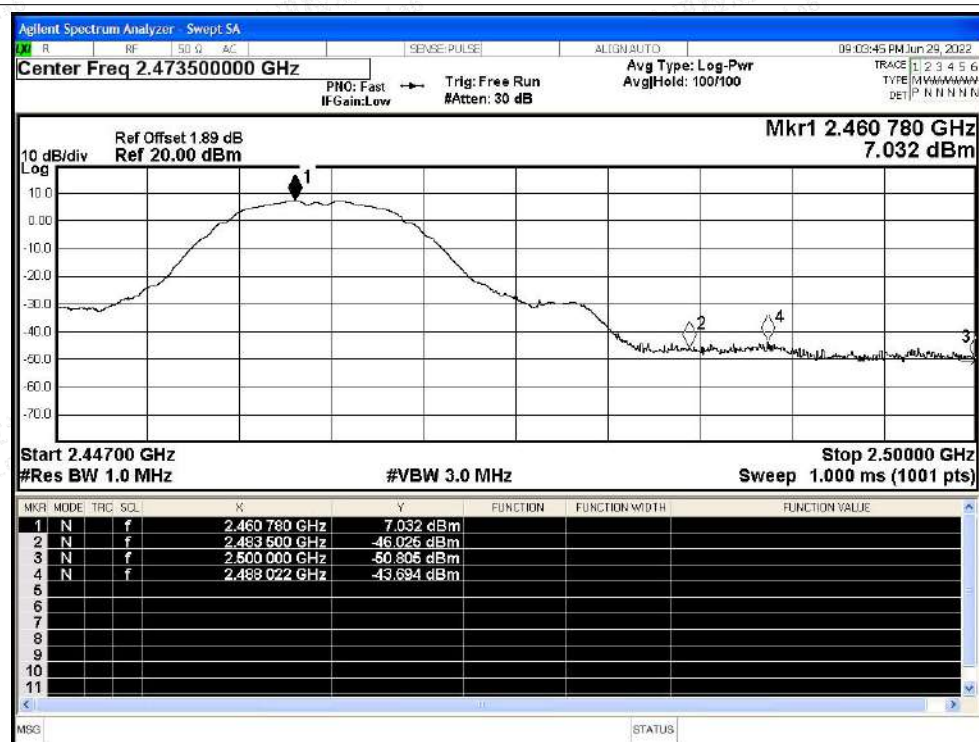
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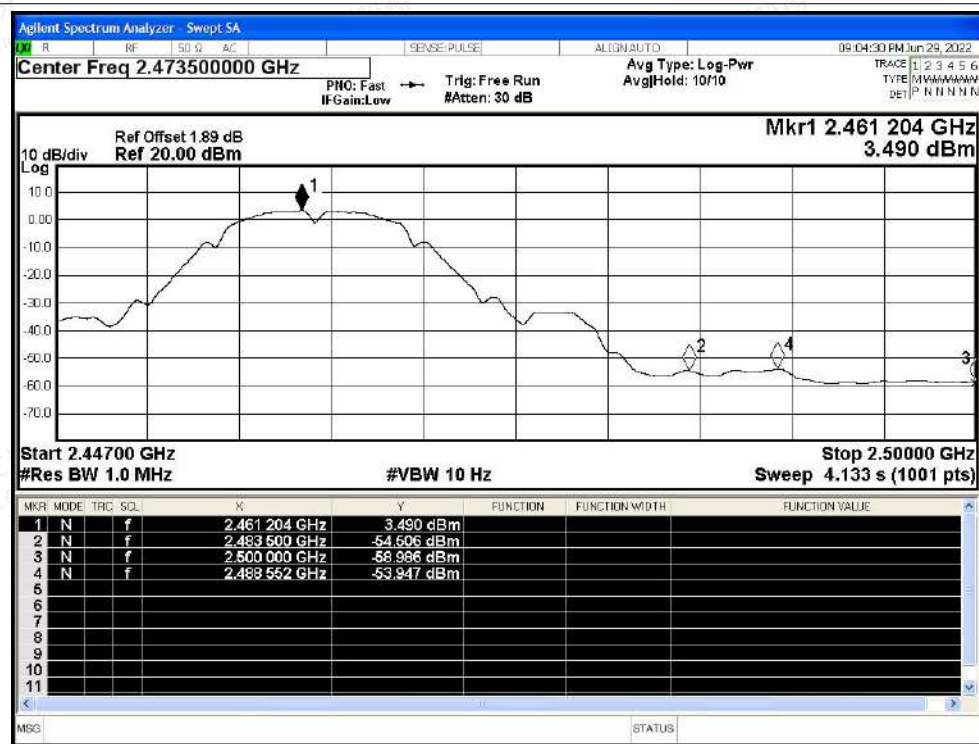
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## Restrict Band NVNT b 2462MHz Ant1 Peak



## Restrict Band NVNT b 2462MHz Ant1 Average



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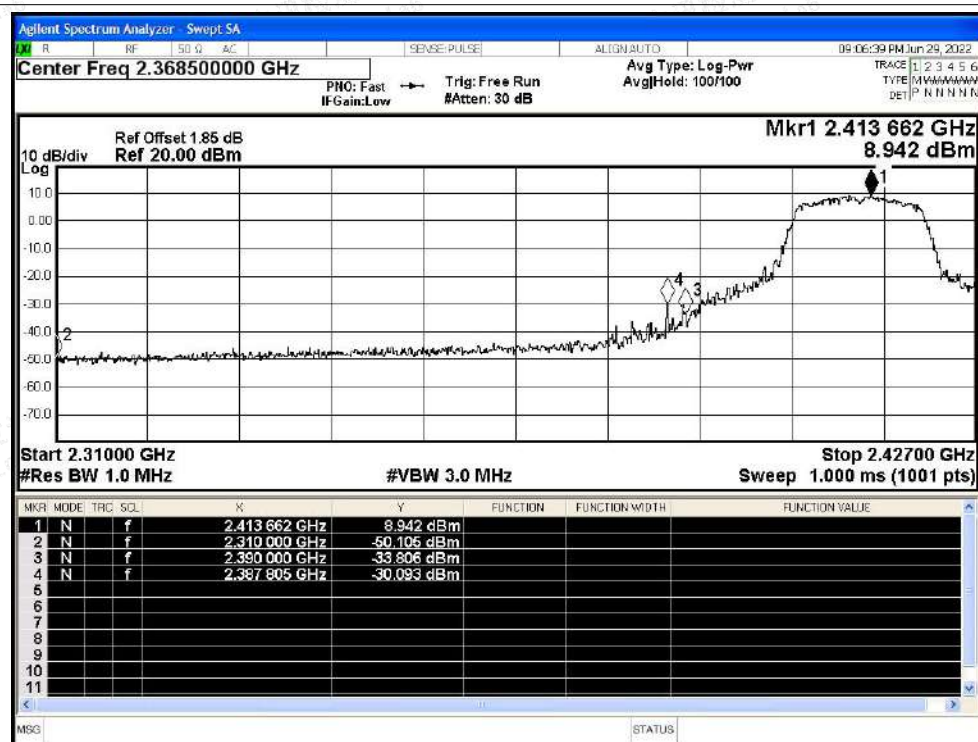
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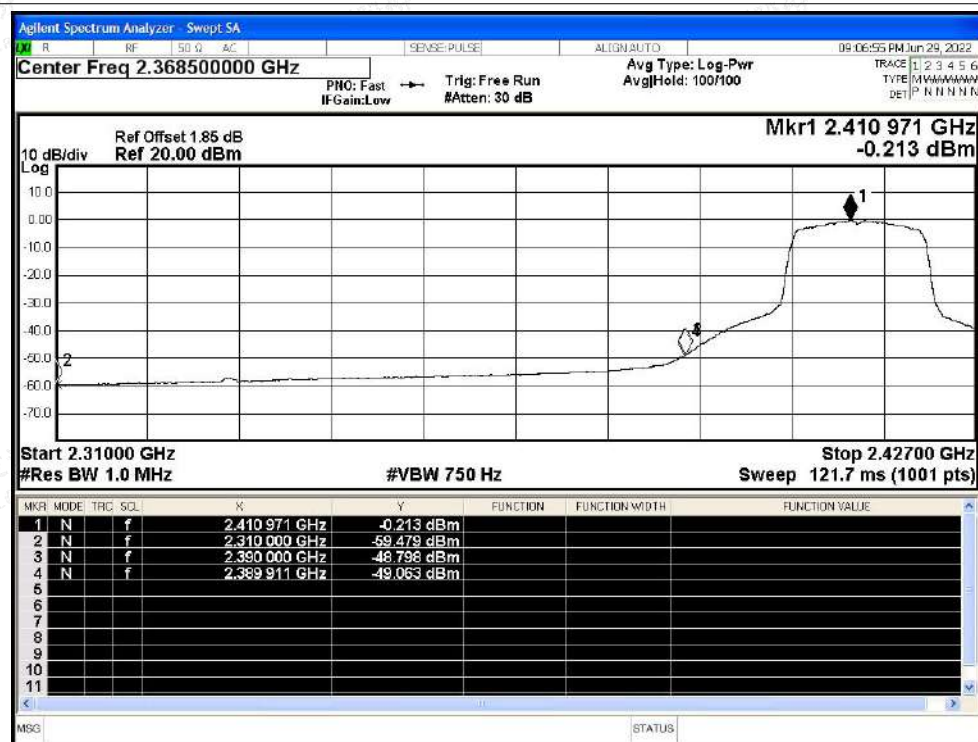
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## Restrict Band NVNT g 2412MHz Ant1 Peak



## Restrict Band NVNT g 2412MHz Ant1 Average

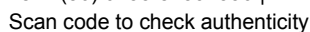
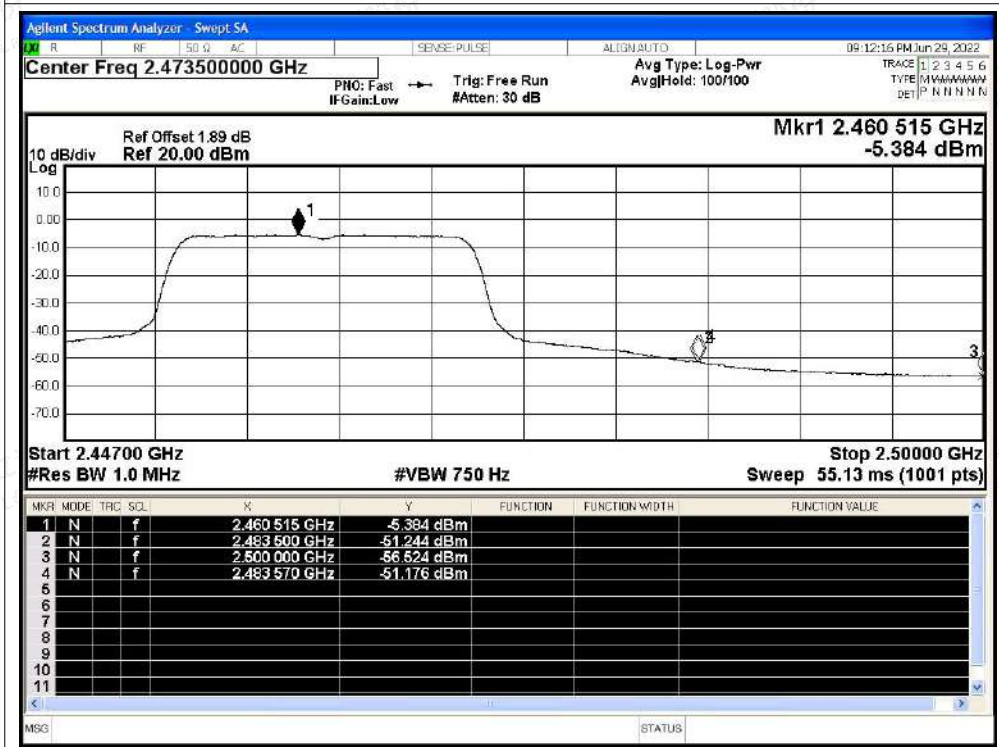
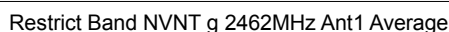


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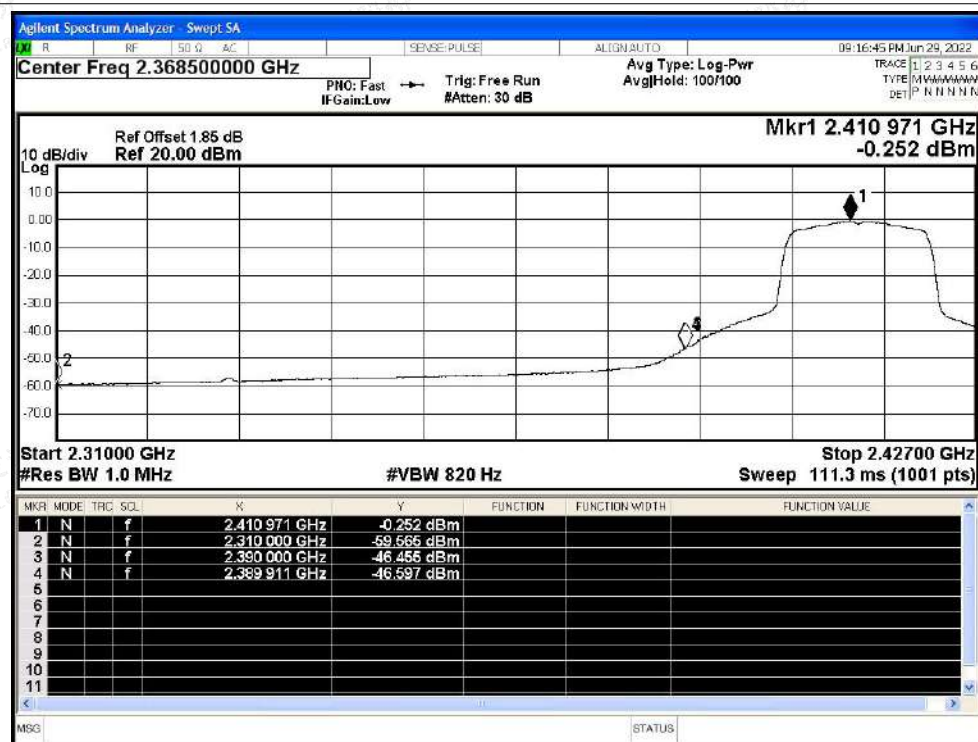




## Restrict Band NVNT n20 2412MHz Ant1 Peak



## Restrict Band NVNT n20 2412MHz Ant1 Average



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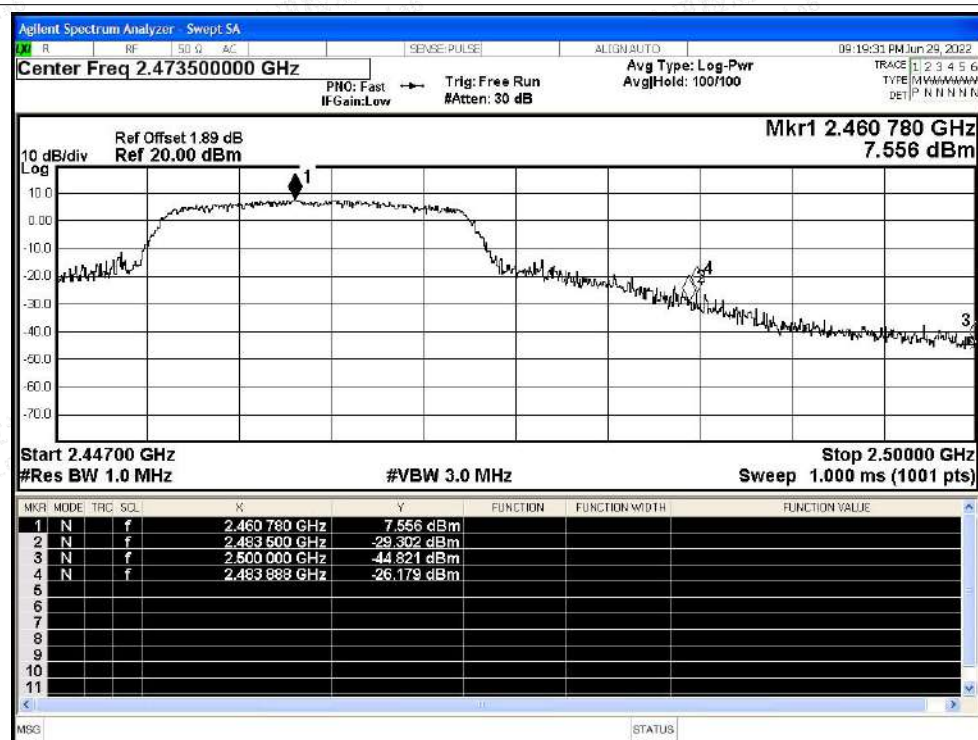
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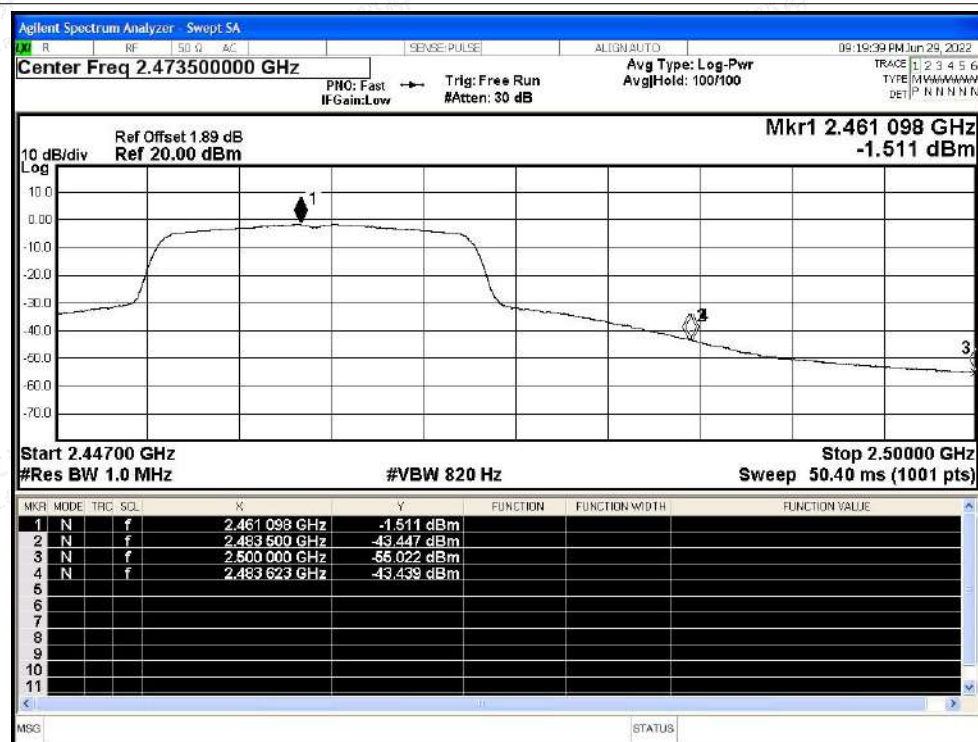
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## Restrict Band NVNT n20 2462MHz Ant1 Peak



## Restrict Band NVNT n20 2462MHz Ant1 Average



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