



## Appendix B

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

Product Name: Strip light

Test Model: D32108B

#### Environmental Conditions

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



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## B.1 -6dB Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | b    | 2412            | Ant1    | 8.094                 | $\geq 0.5$                  | Pass    |
| NVNT      | b    | 2437            | Ant1    | 7.203                 | $\geq 0.5$                  | Pass    |
| NVNT      | b    | 2462            | Ant1    | 8.041                 | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2412            | Ant1    | 16.074                | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2437            | Ant1    | 16.317                | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2462            | Ant1    | 16.334                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 16.841                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 17.375                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 17.114                | $\geq 0.5$                  | Pass    |



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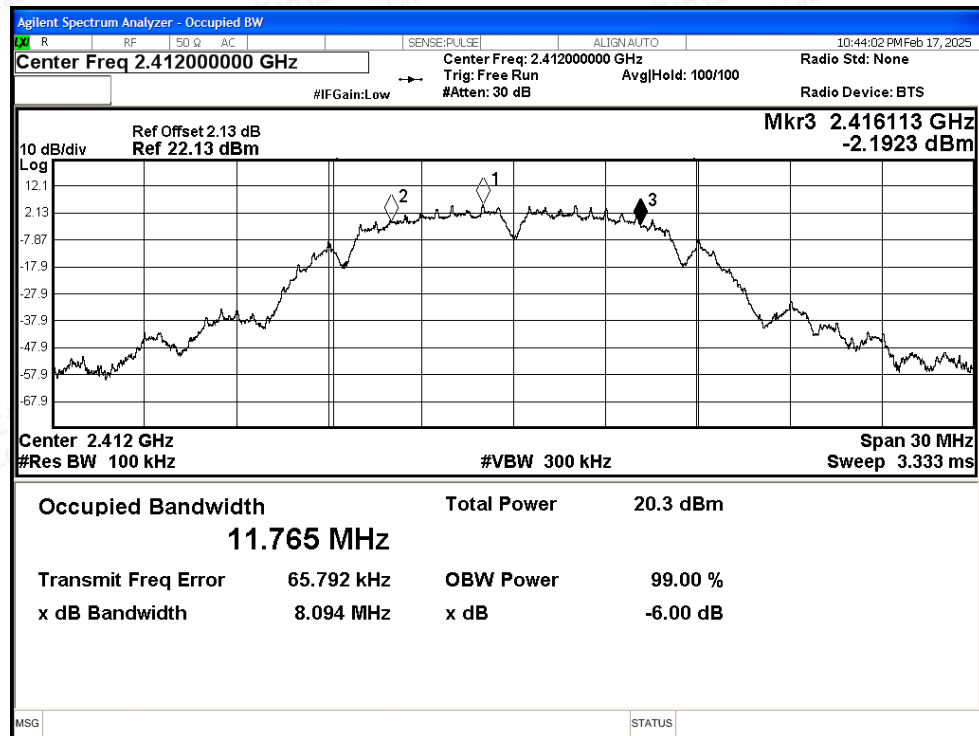
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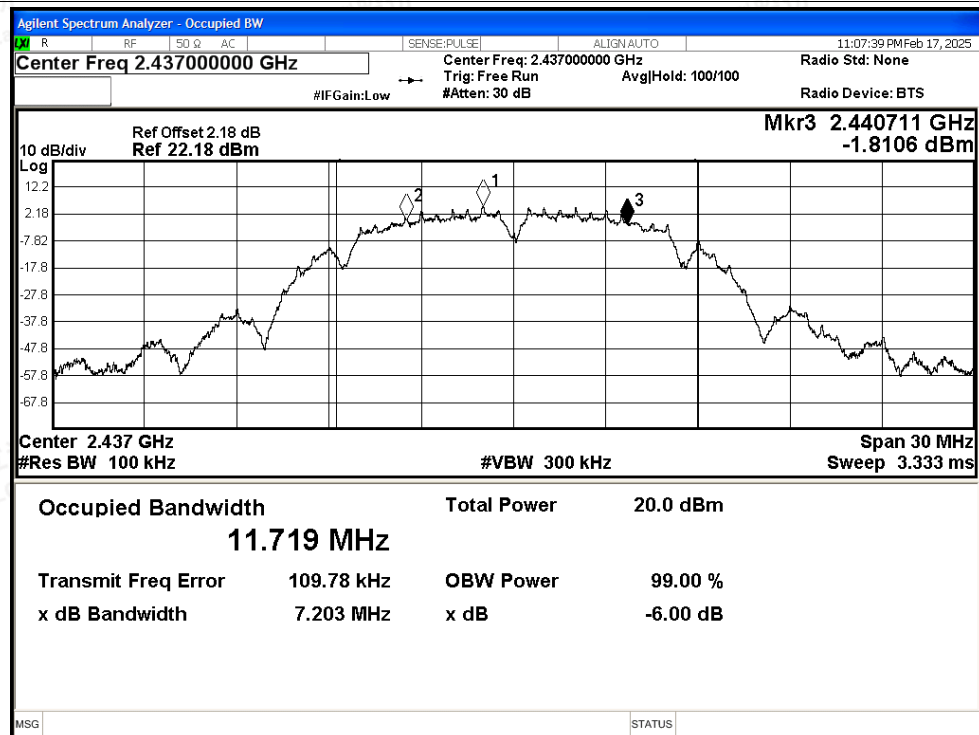


## Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1



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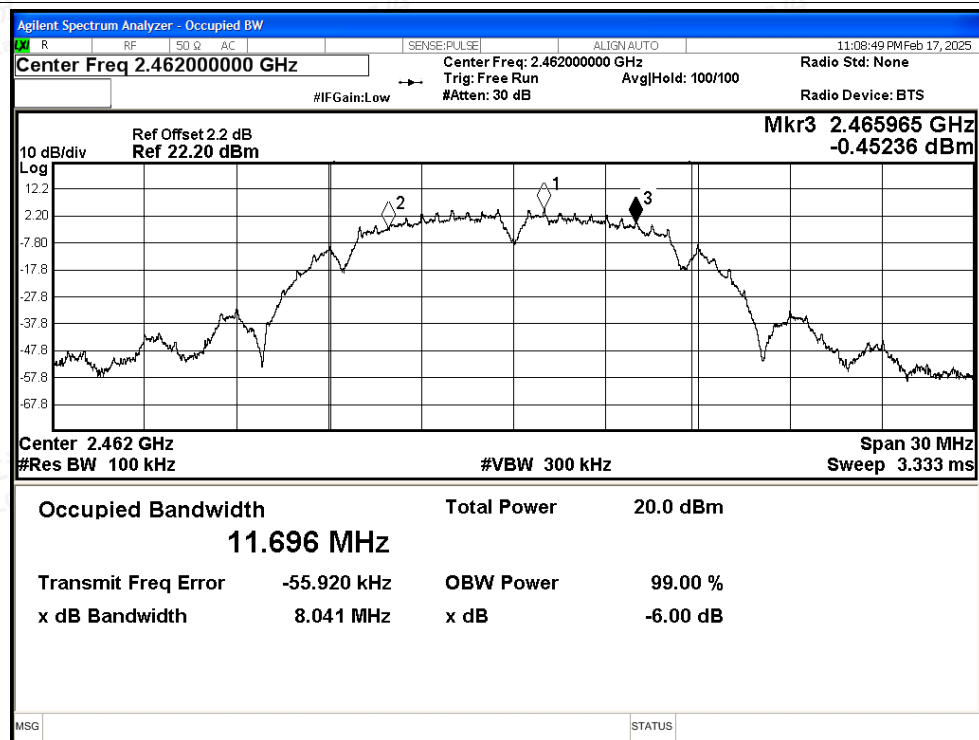
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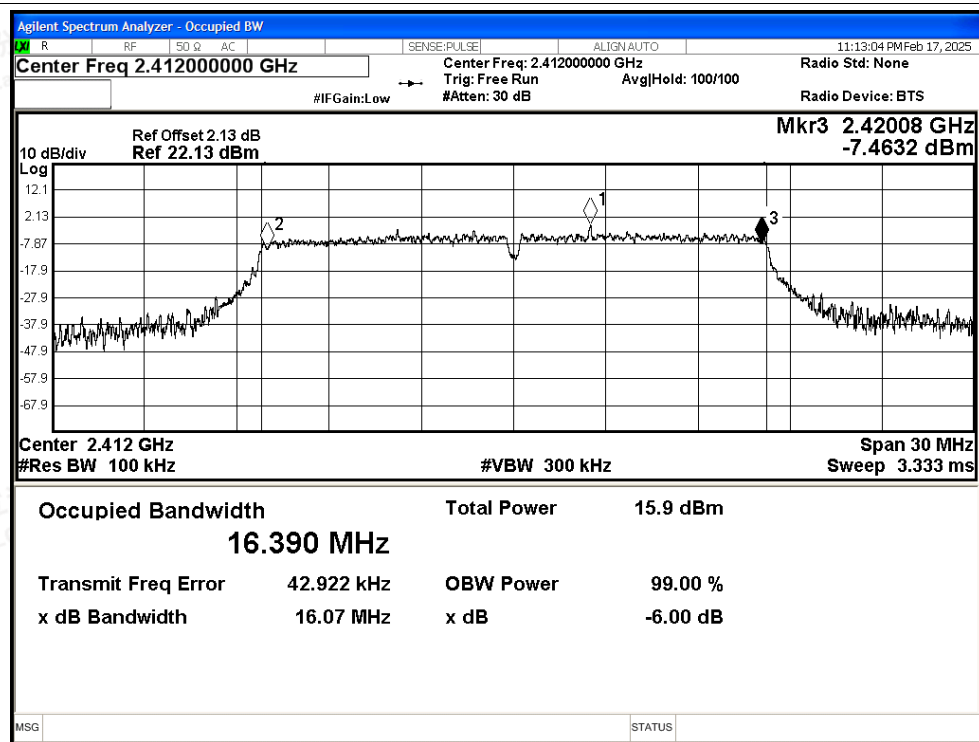
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## -6dB Bandwidth NVNT b 2462MHz Ant1



## -6dB Bandwidth NVNT g 2412MHz Ant1



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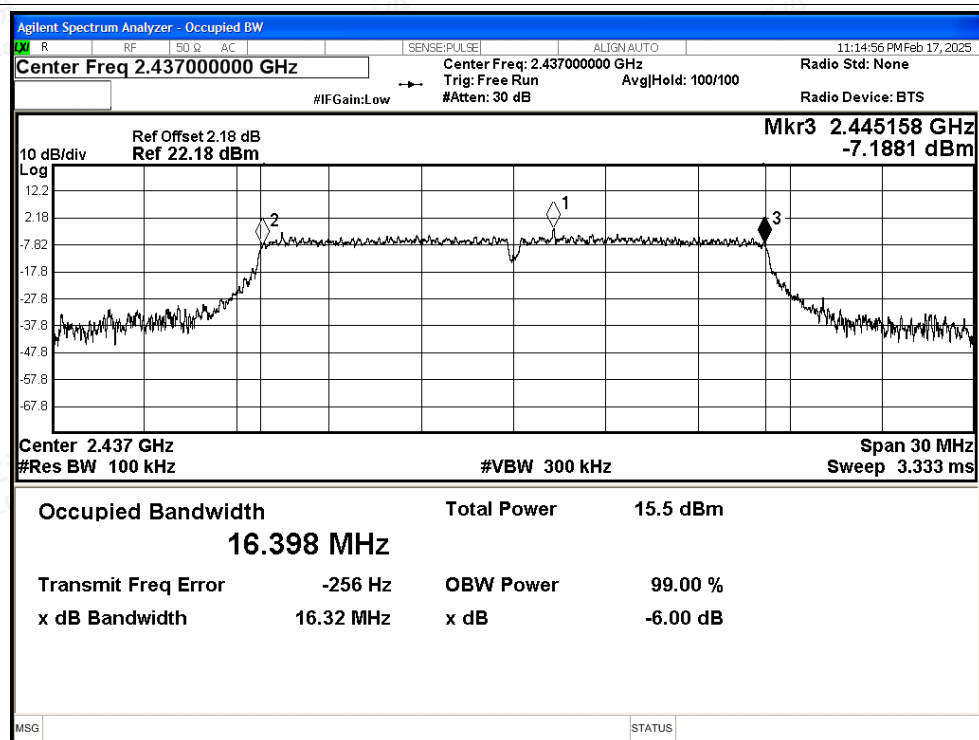
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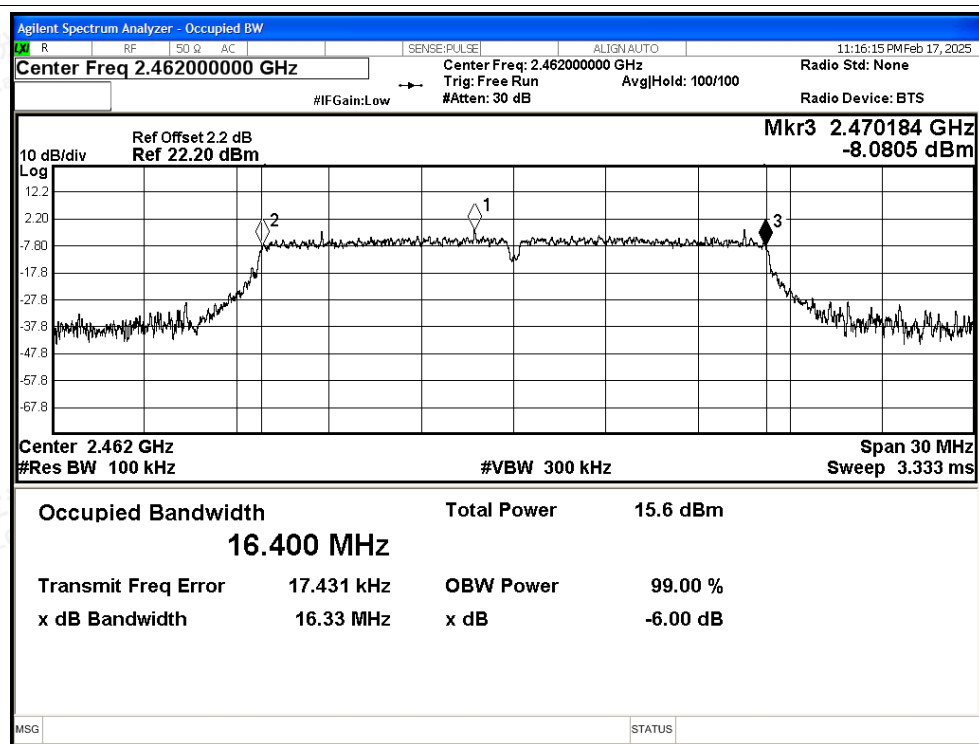
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## -6dB Bandwidth NVNT g 2437MHz Ant1



## -6dB Bandwidth NVNT g 2462MHz Ant1



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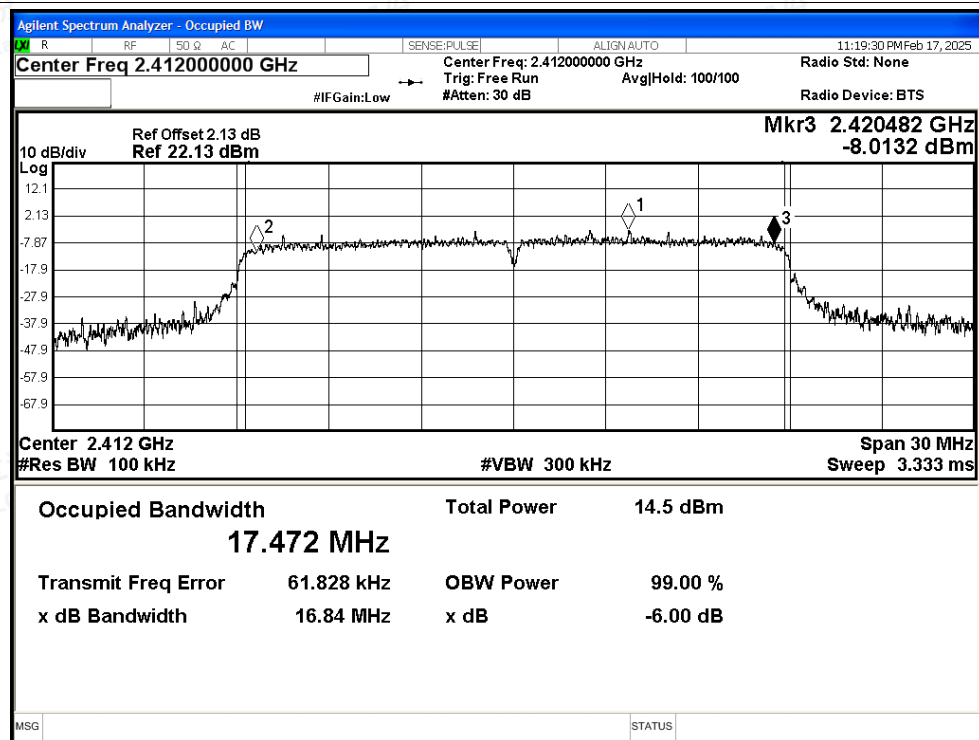
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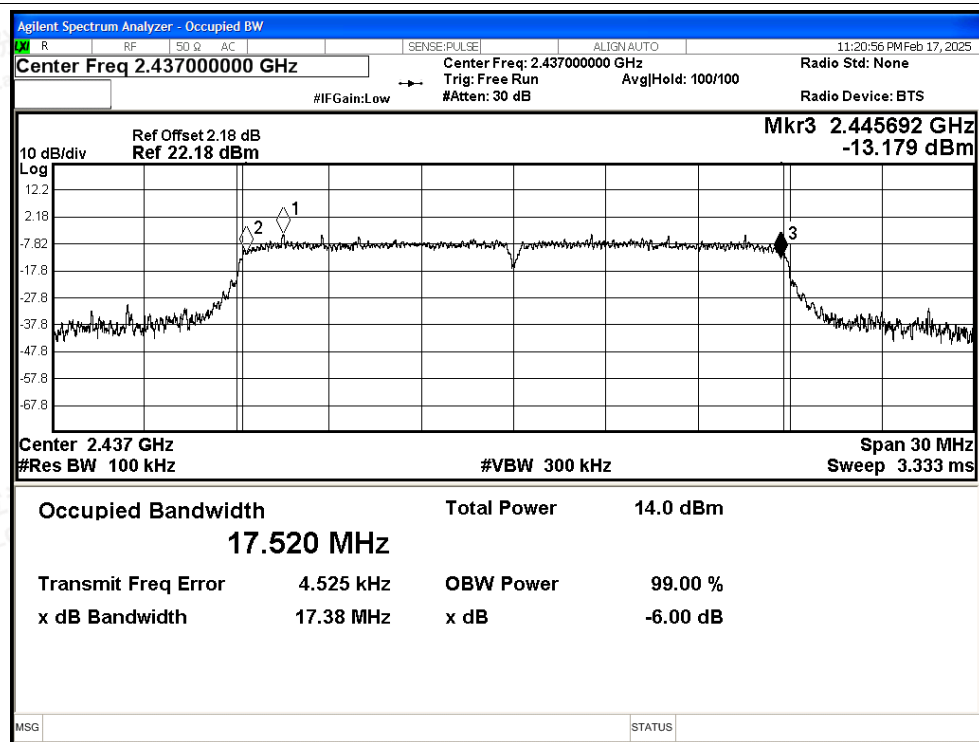
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## -6dB Bandwidth NVNT n20 2412MHz Ant1



## -6dB Bandwidth NVNT n20 2437MHz Ant1

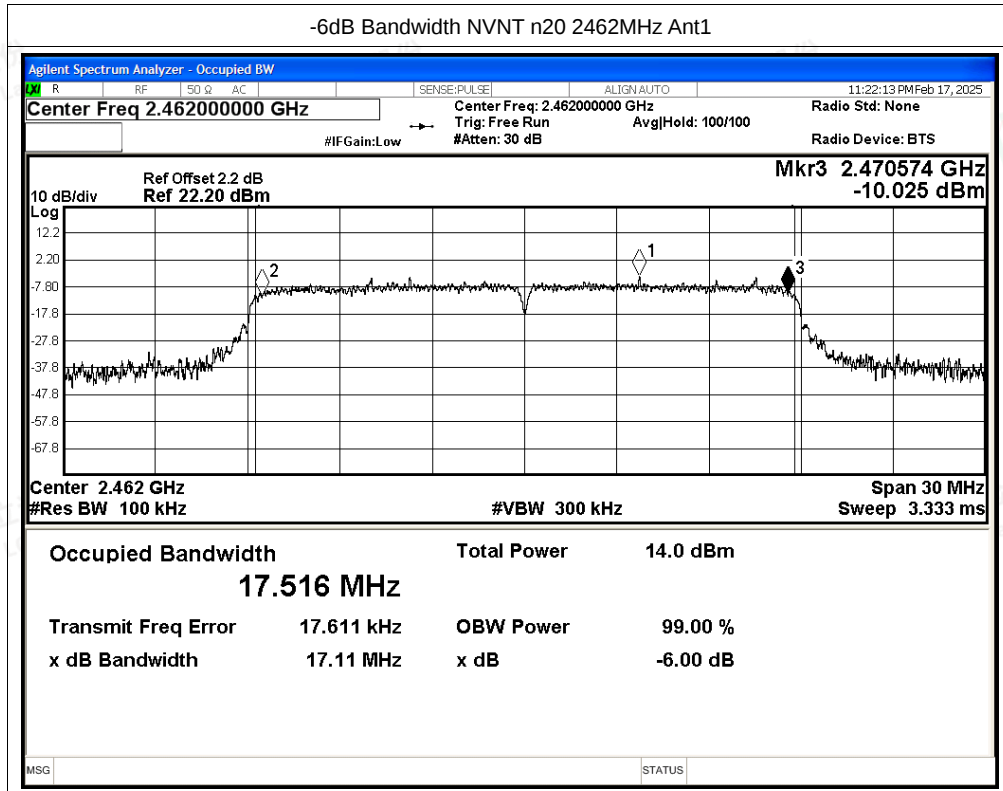


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## B.2 Maximum Peak Conducted Output Power

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | 15.27                 | 30          | Pass    |
| NVNT      | b    | 2437            | Ant1    | 15.04                 | 30          | Pass    |
| NVNT      | b    | 2462            | Ant1    | 14.96                 | 30          | Pass    |
| NVNT      | g    | 2412            | Ant1    | 14.75                 | 30          | Pass    |
| NVNT      | g    | 2437            | Ant1    | 14.39                 | 30          | Pass    |
| NVNT      | g    | 2462            | Ant1    | 14.45                 | 30          | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 13.11                 | 30          | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 12.59                 | 30          | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 12.67                 | 30          | Pass    |



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### B.3 Maximum Power Spectral Density Level

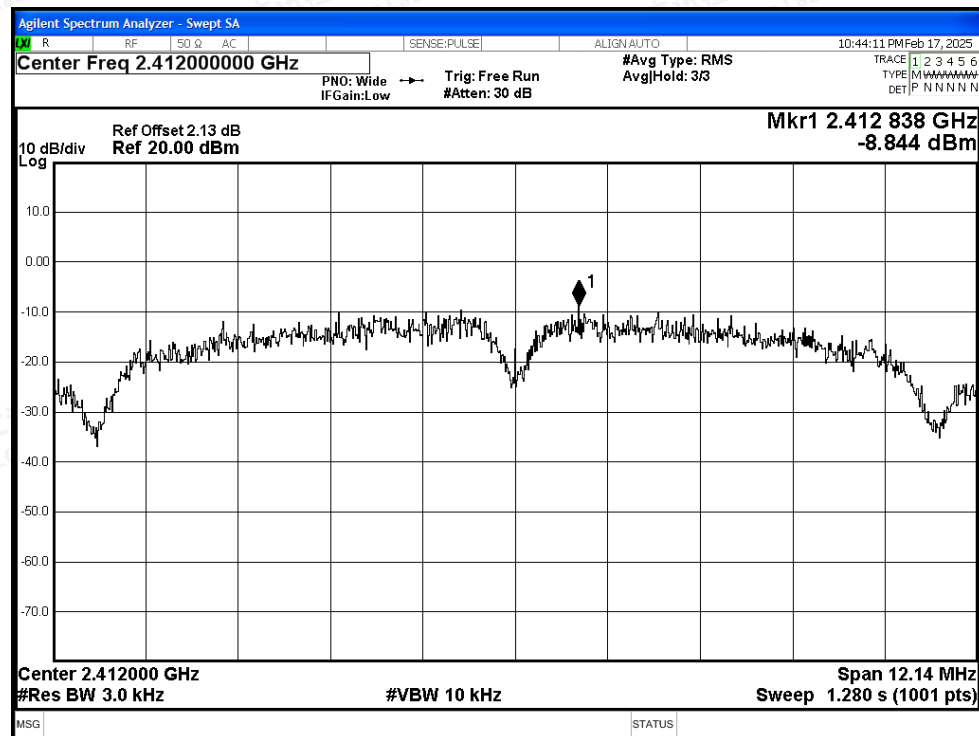
| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|-----------|------|-----------------|---------|--------------------------|------------------|---------|
| NVNT      | b    | 2412            | Ant1    | -8.84                    | 8                | Pass    |
| NVNT      | b    | 2437            | Ant1    | -9.75                    | 8                | Pass    |
| NVNT      | b    | 2462            | Ant1    | -6.1                     | 8                | Pass    |
| NVNT      | g    | 2412            | Ant1    | -15.27                   | 8                | Pass    |
| NVNT      | g    | 2437            | Ant1    | -16.78                   | 8                | Pass    |
| NVNT      | g    | 2462            | Ant1    | -16.15                   | 8                | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -17.3                    | 8                | Pass    |
| NVNT      | n20  | 2437            | Ant1    | -17.42                   | 8                | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -17.5                    | 8                | Pass    |



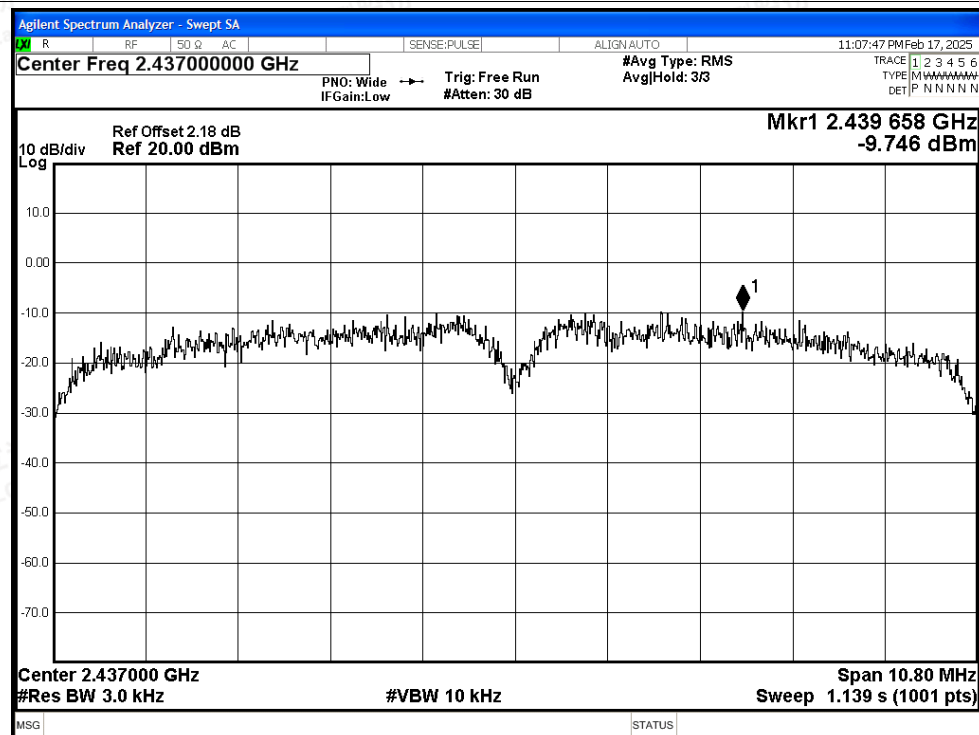


## Test Graphs

PSD NVNT b 2412MHz Ant1



PSD NVNT b 2437MHz Ant1



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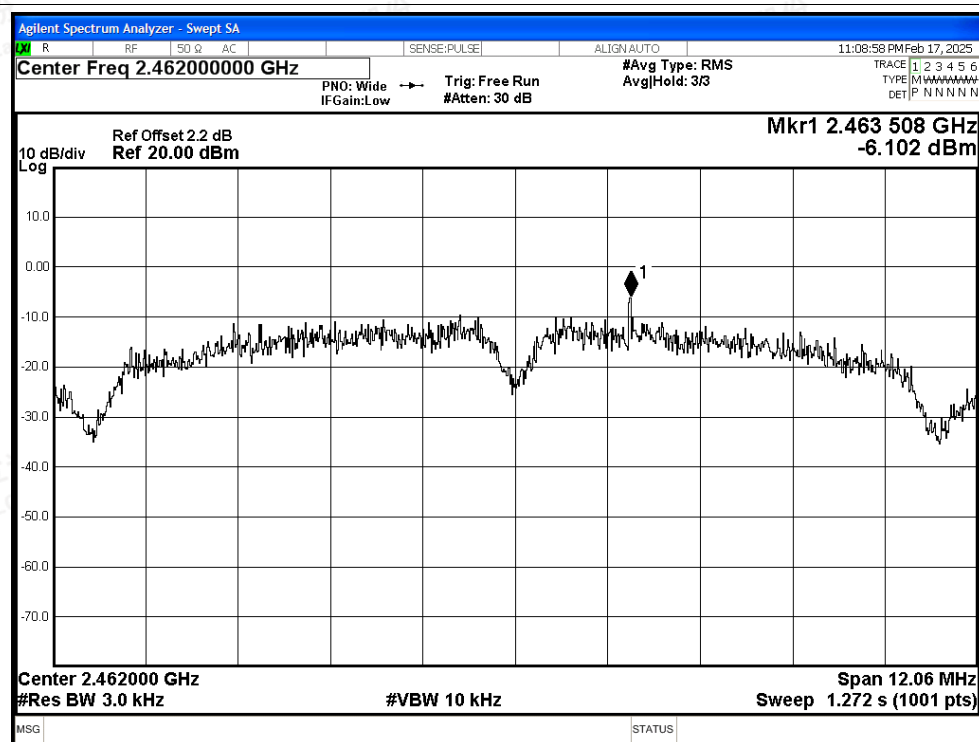
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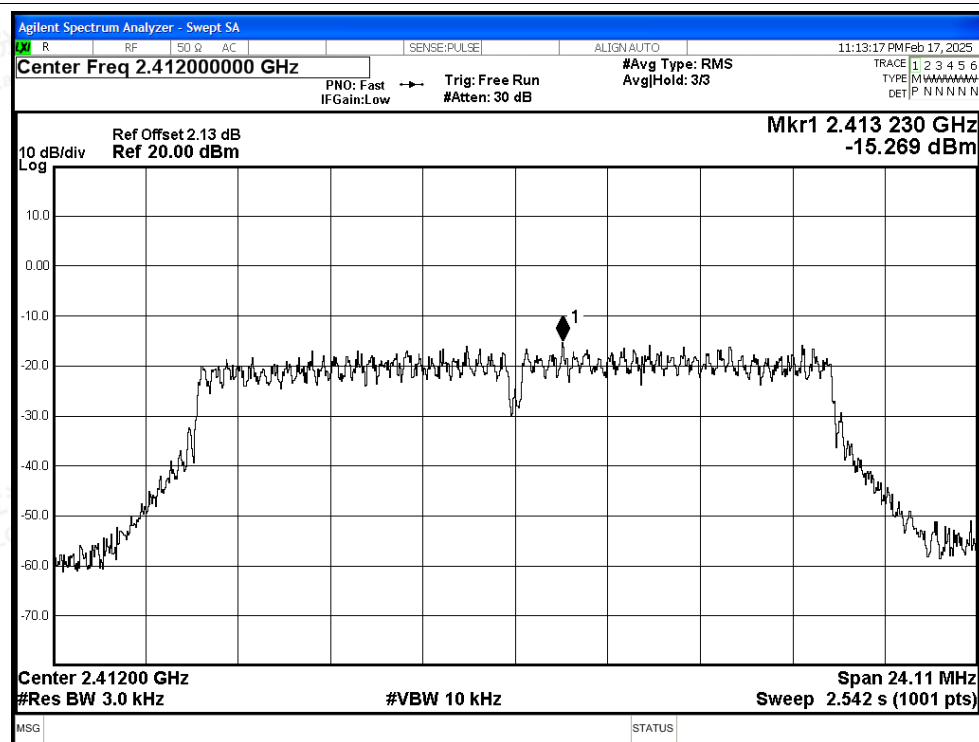
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## PSD NVNT b 2462MHz Ant1



## PSD NVNT g 2412MHz Ant1



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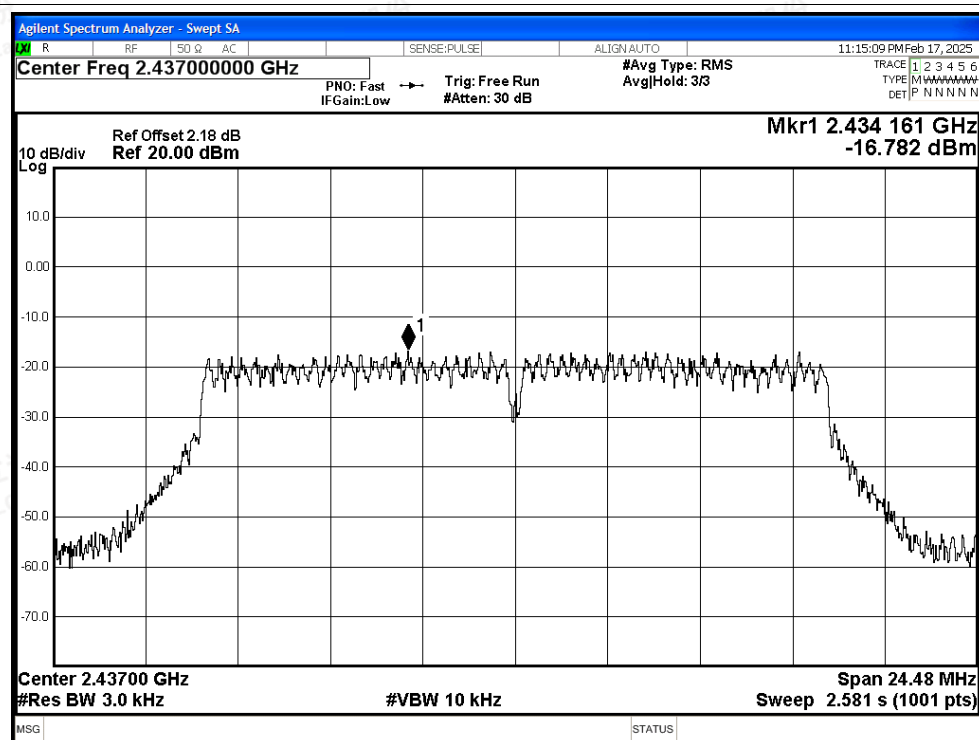
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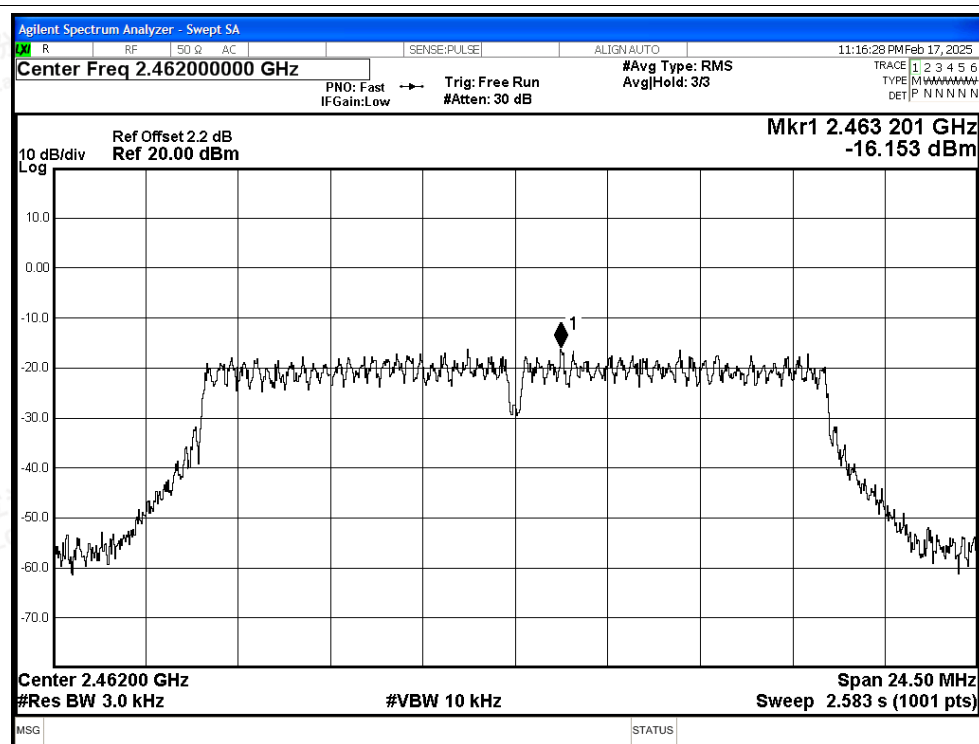
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PSD NVNT g 2437MHz Ant1



PSD NVNT g 2462MHz Ant1

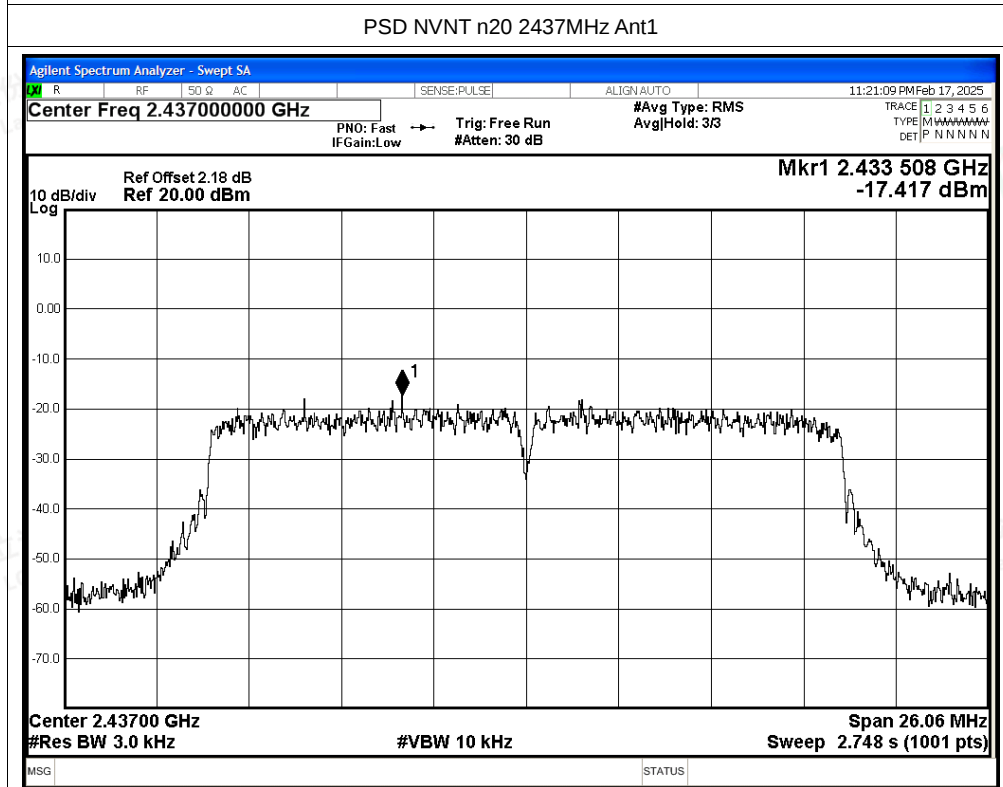
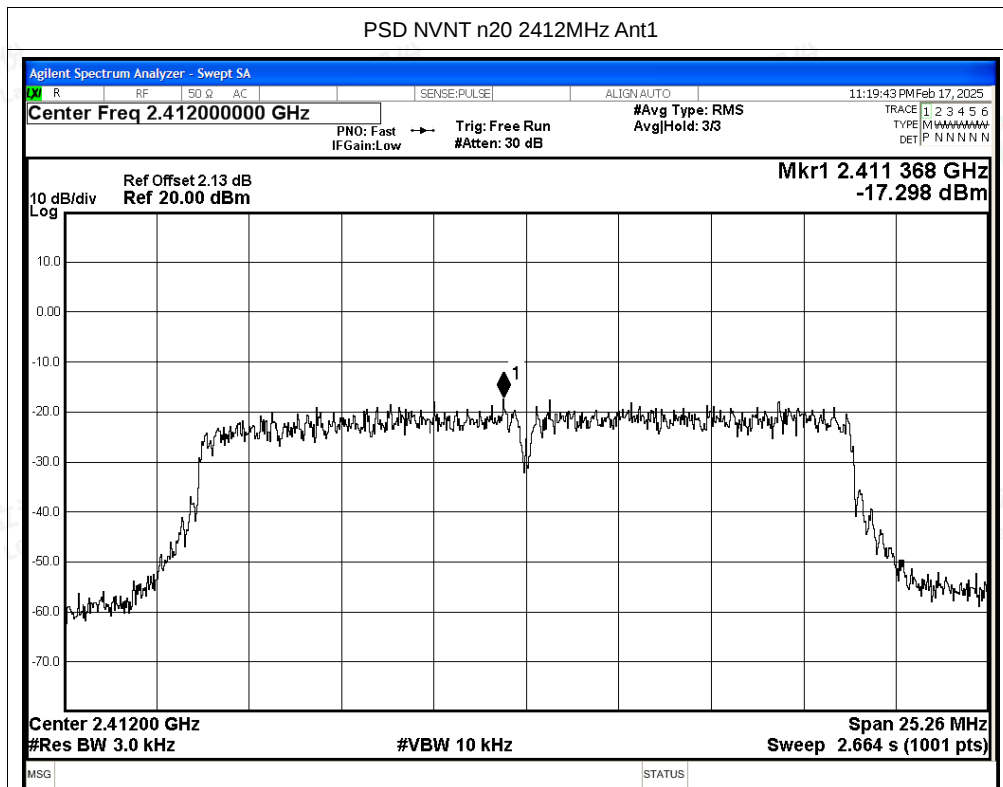


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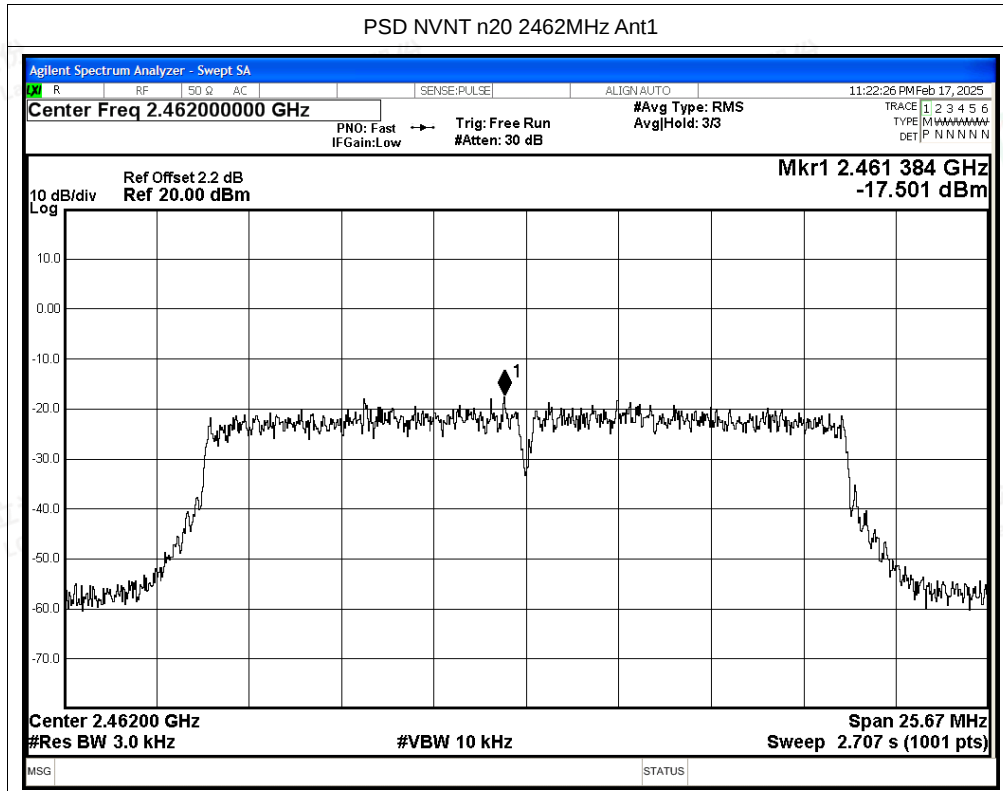


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## B.4 Band Edge

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | -49.1           | -20         | Pass    |
| NVNT      | b    | 2462            | Ant1    | -59.27          | -20         | Pass    |
| NVNT      | g    | 2412            | Ant1    | -33             | -20         | Pass    |
| NVNT      | g    | 2462            | Ant1    | -41.14          | -20         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -32.99          | -20         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -41.43          | -20         | Pass    |



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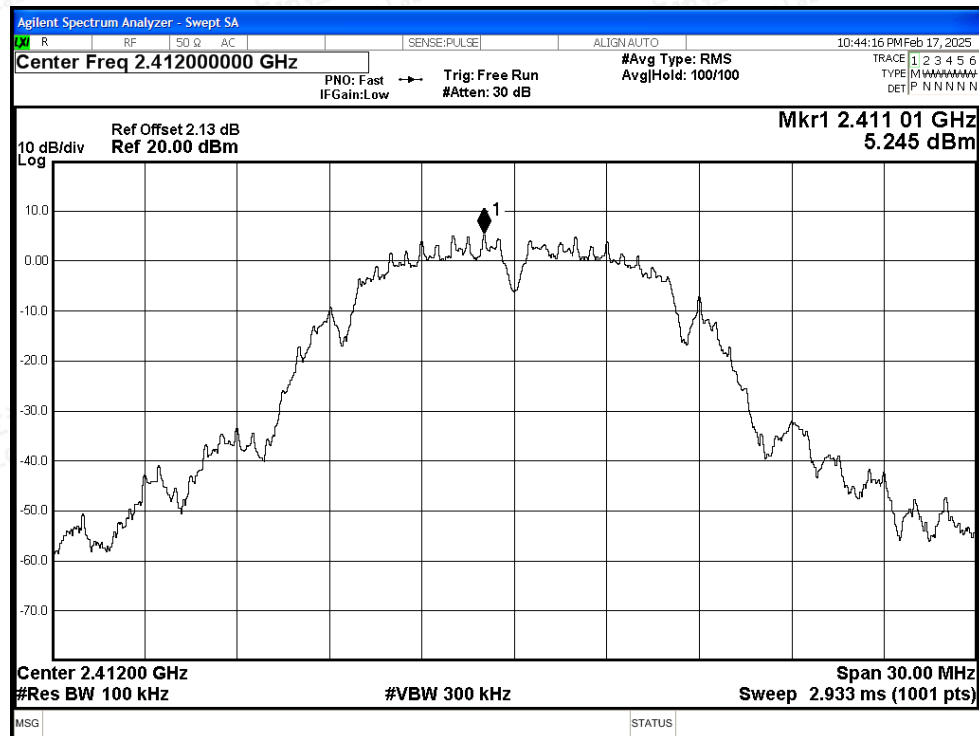
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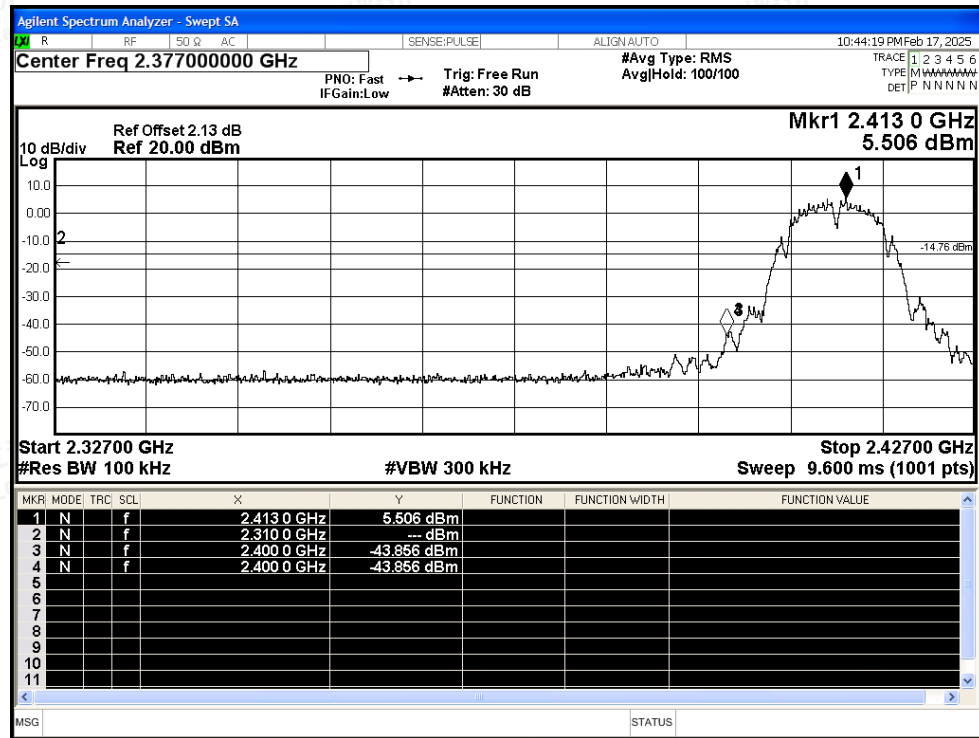


## Test Graphs

## Band Edge NVNT b 2412MHz Ant1 Ref



## Band Edge NVNT b 2412MHz Ant1 Emission



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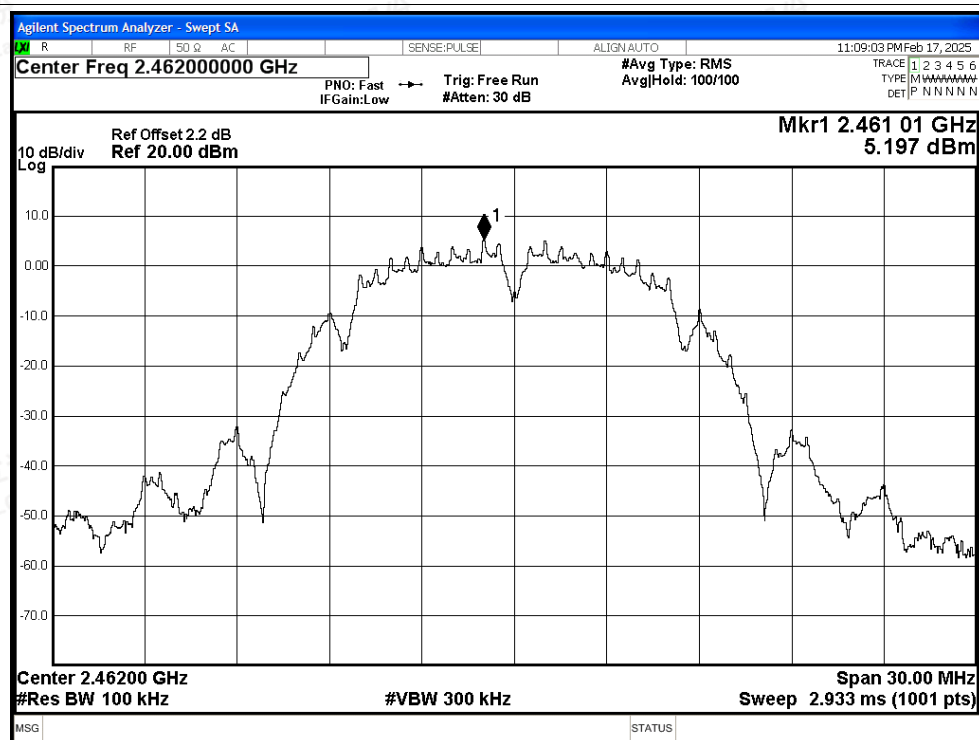
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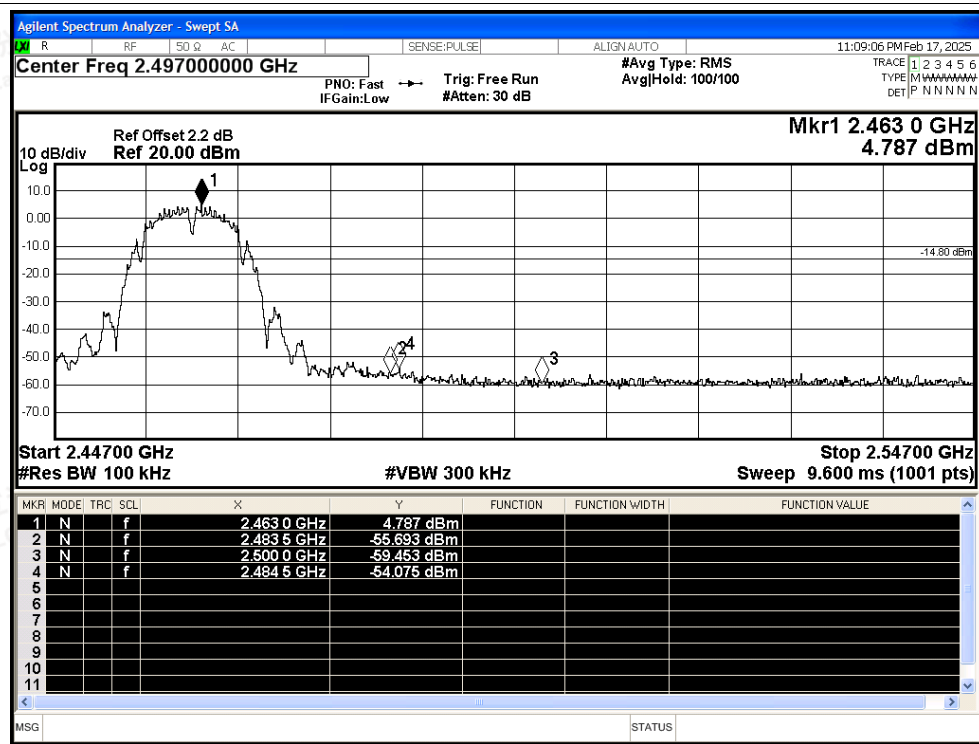
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## Band Edge NVNT b 2462MHz Ant1 Ref



## Band Edge NVNT b 2462MHz Ant1 Emission



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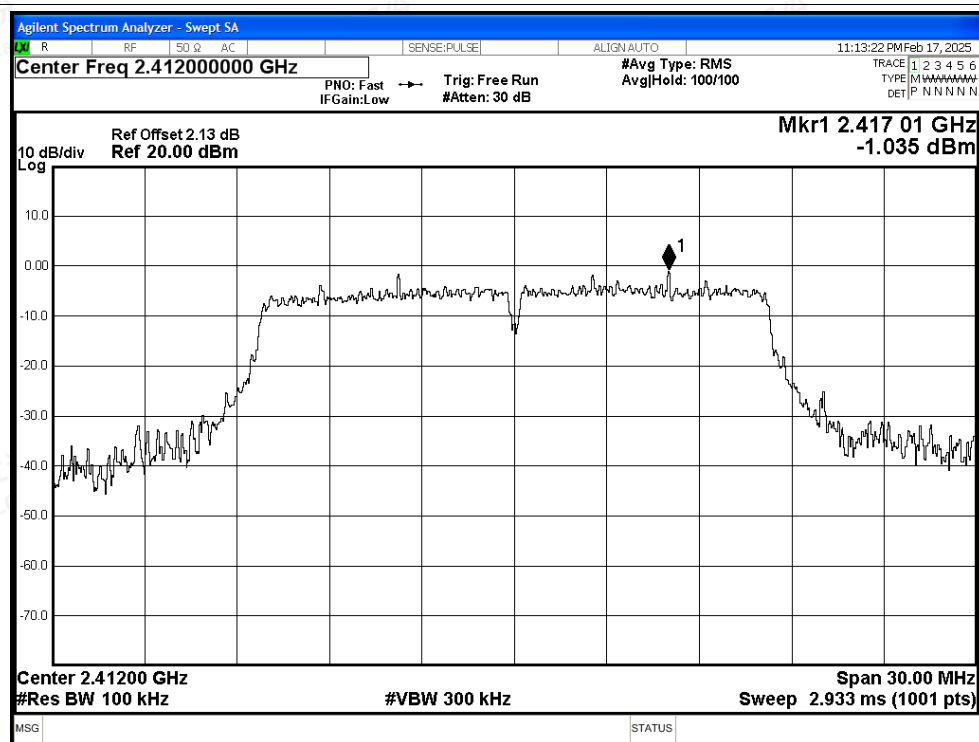
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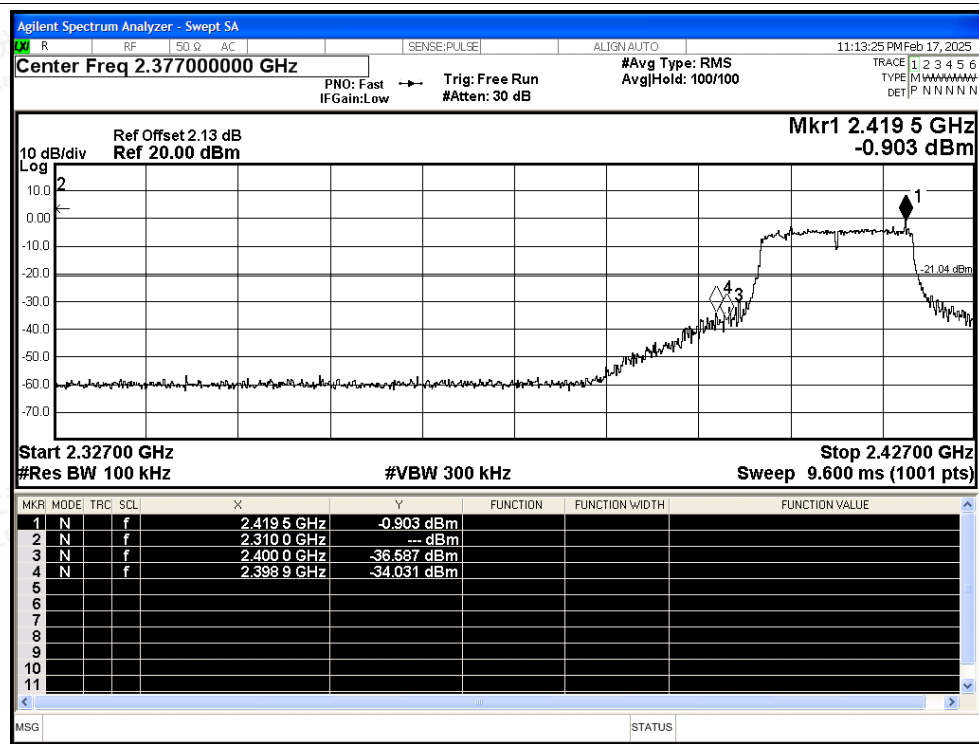
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## Band Edge NVNT g 2412MHz Ant1 Ref



## Band Edge NVNT g 2412MHz Ant1 Emission



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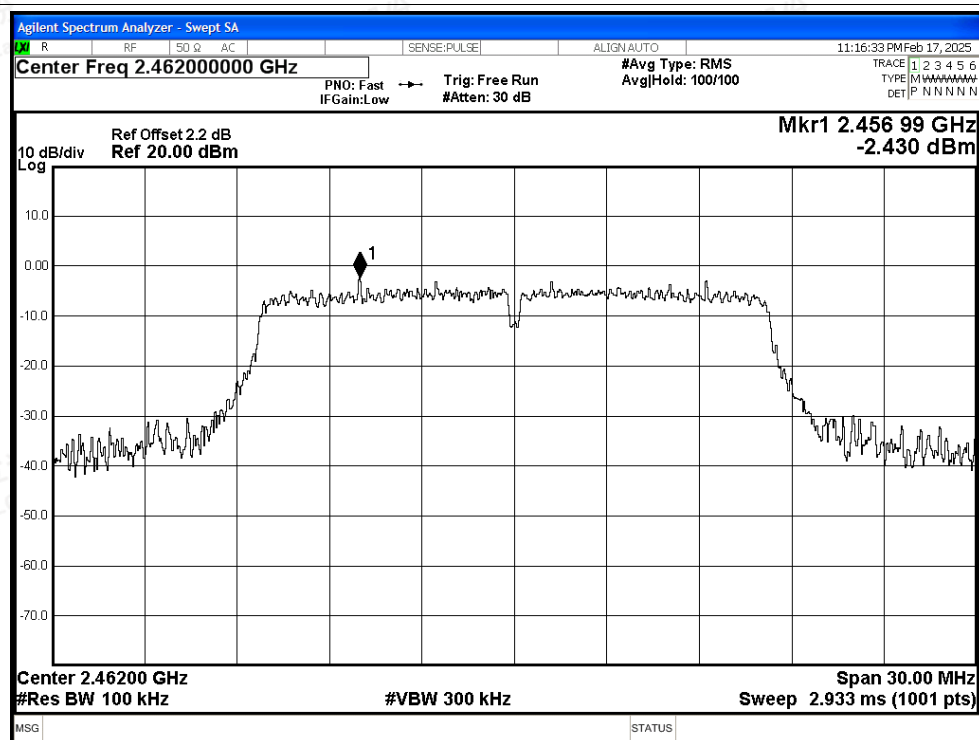
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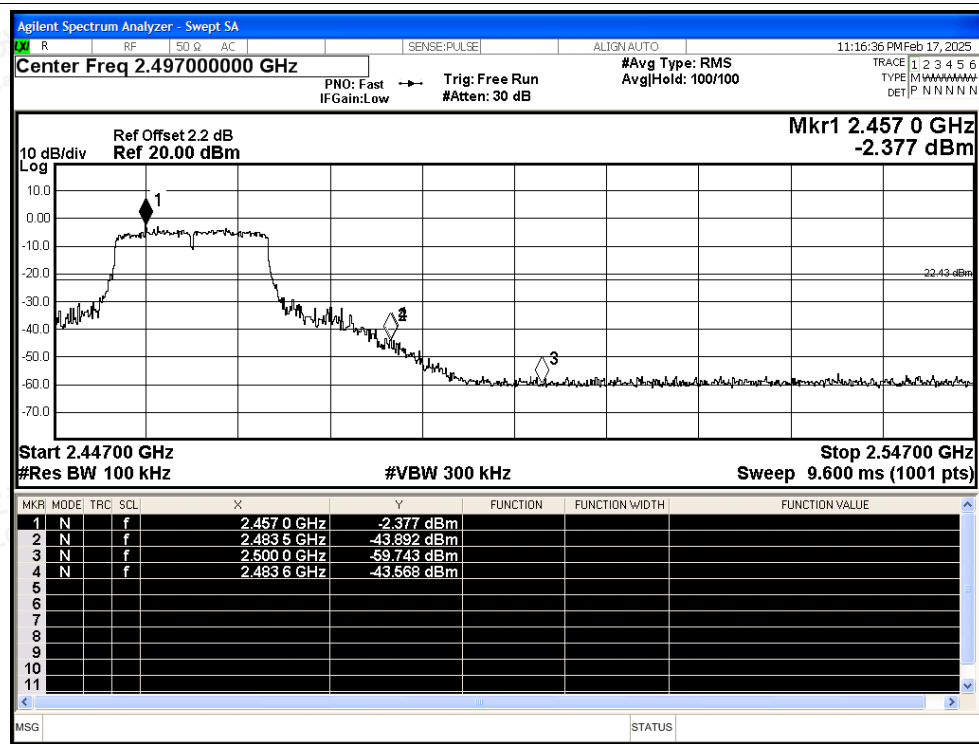
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## Band Edge NVNT g 2462MHz Ant1 Ref



## Band Edge NVNT g 2462MHz Ant1 Emission



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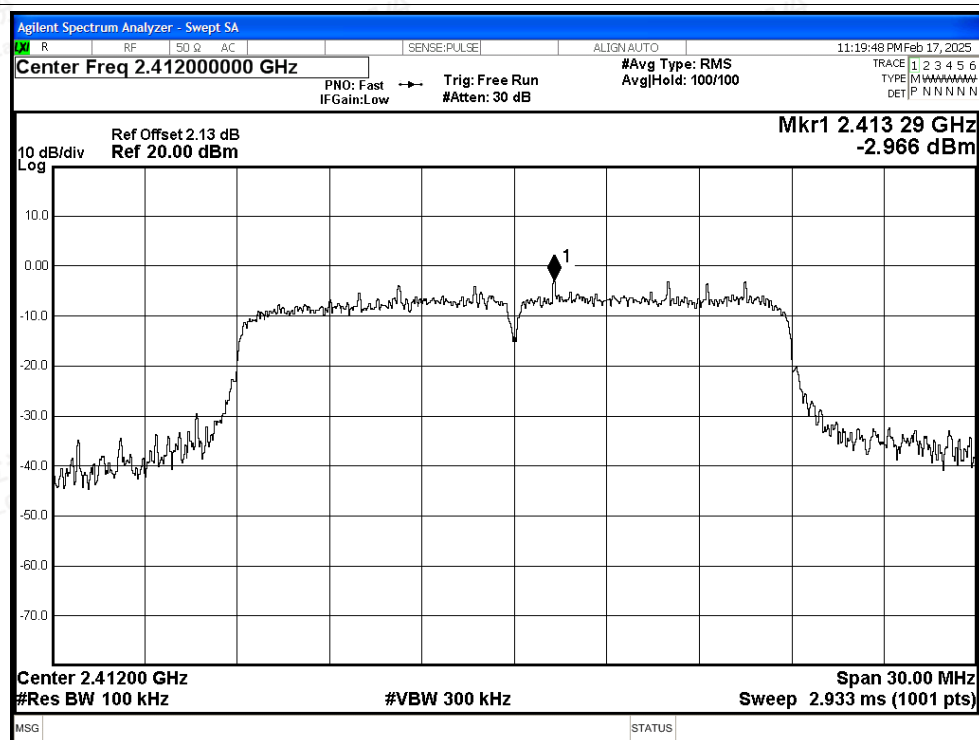
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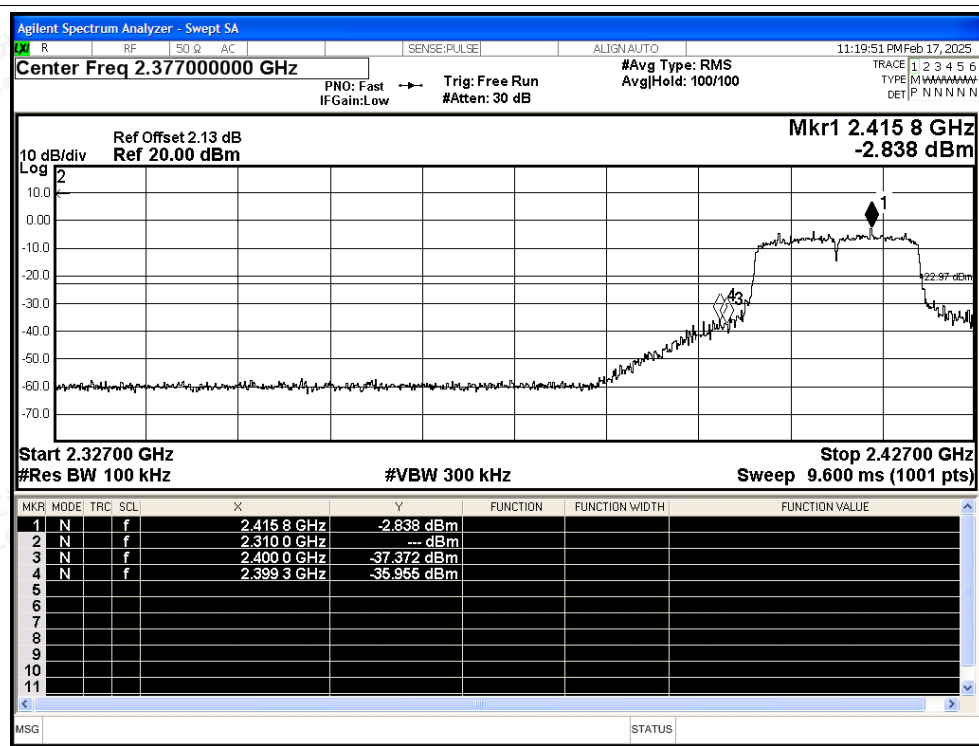
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## Band Edge NVNT n20 2412MHz Ant1 Ref



## Band Edge NVNT n20 2412MHz Ant1 Emission



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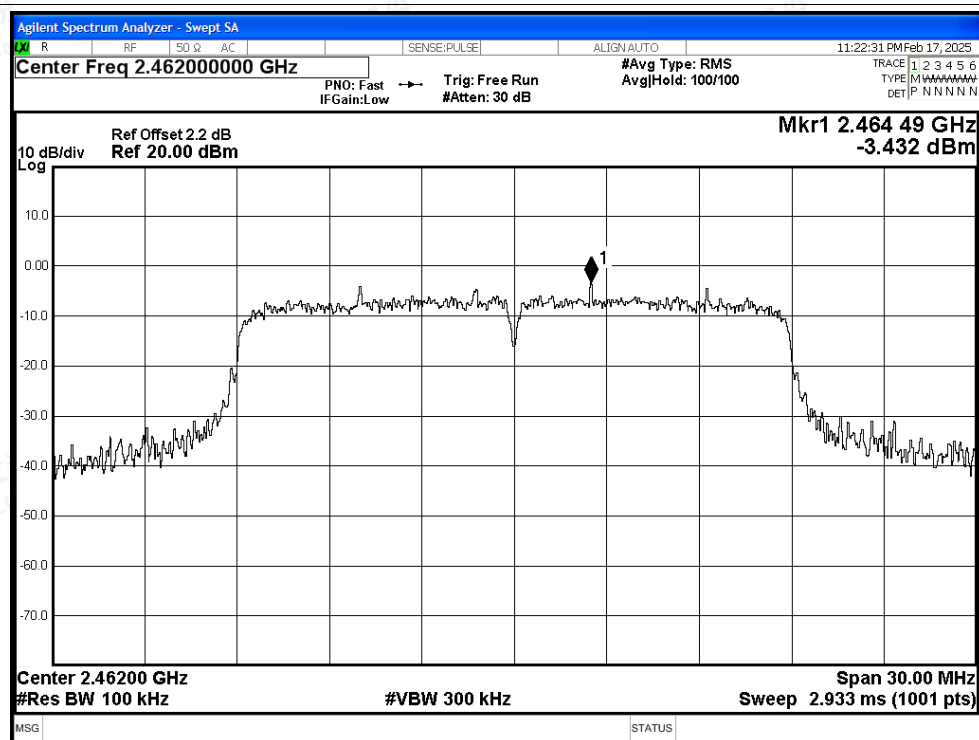
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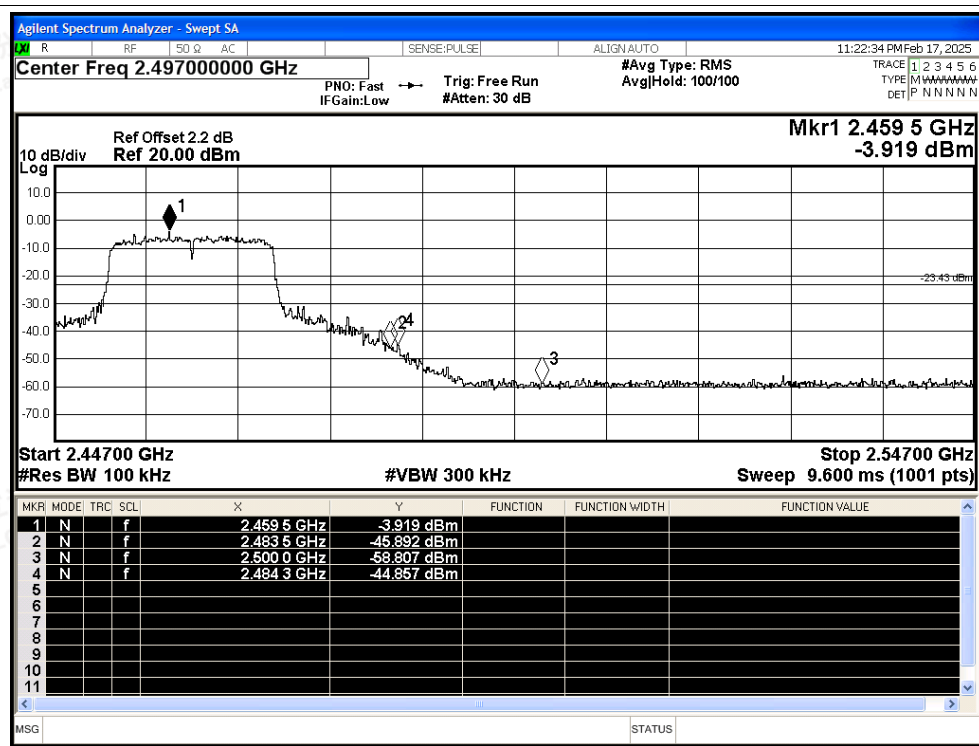
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## Band Edge NVNT n20 2462MHz Ant1 Ref



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## B.5 Conducted RF Spurious Emission

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | -50.78          | -20         | Pass    |
| NVNT      | b    | 2437            | Ant1    | -51.07          | -20         | Pass    |
| NVNT      | b    | 2462            | Ant1    | -50.79          | -20         | Pass    |
| NVNT      | g    | 2412            | Ant1    | -45.07          | -20         | Pass    |
| NVNT      | g    | 2437            | Ant1    | -43.72          | -20         | Pass    |
| NVNT      | g    | 2462            | Ant1    | -44.65          | -20         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -43.06          | -20         | Pass    |
| NVNT      | n20  | 2437            | Ant1    | -42.91          | -20         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -42.49          | -20         | Pass    |



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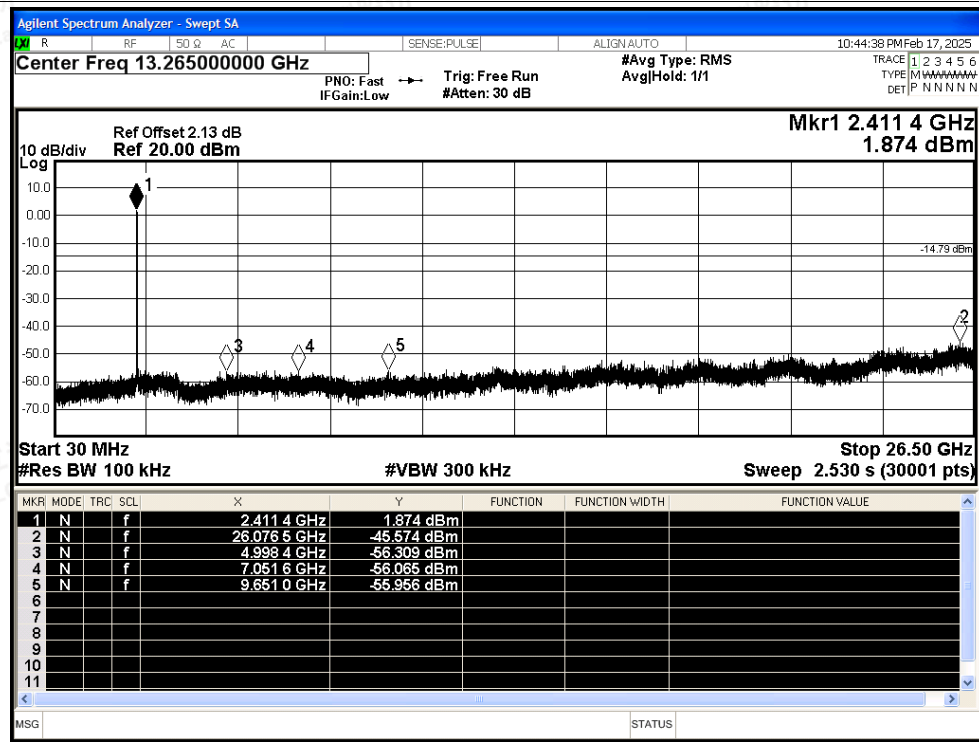


## Test Graphs

## Tx. Spurious NVNT b 2412MHz Ant1 Ref



## Tx. Spurious NVNT b 2412MHz Ant1 Emission



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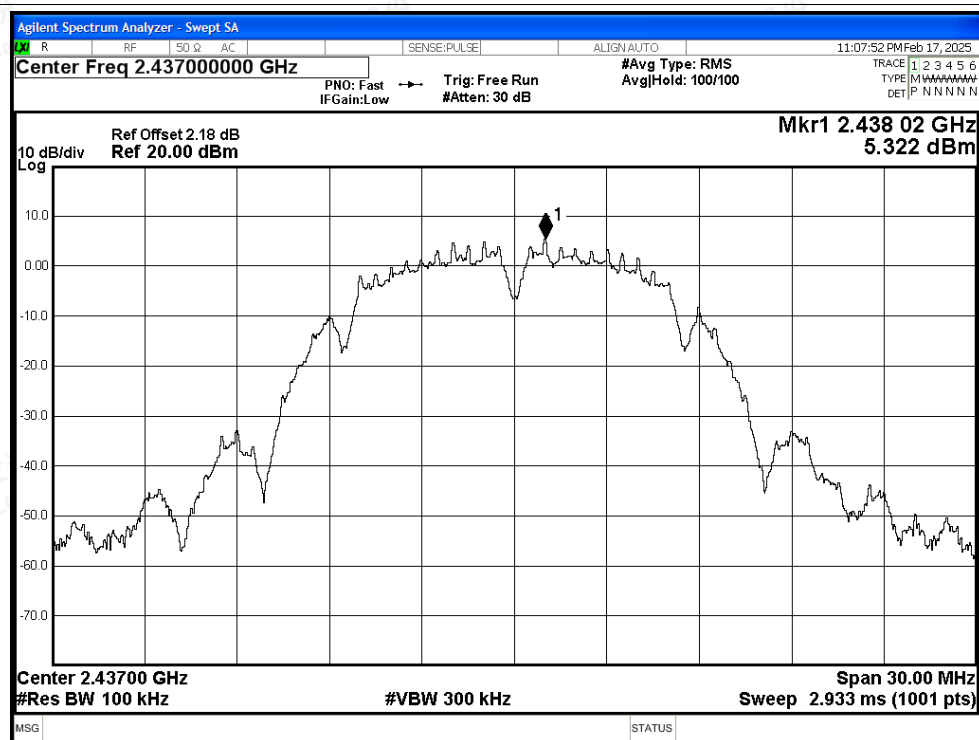
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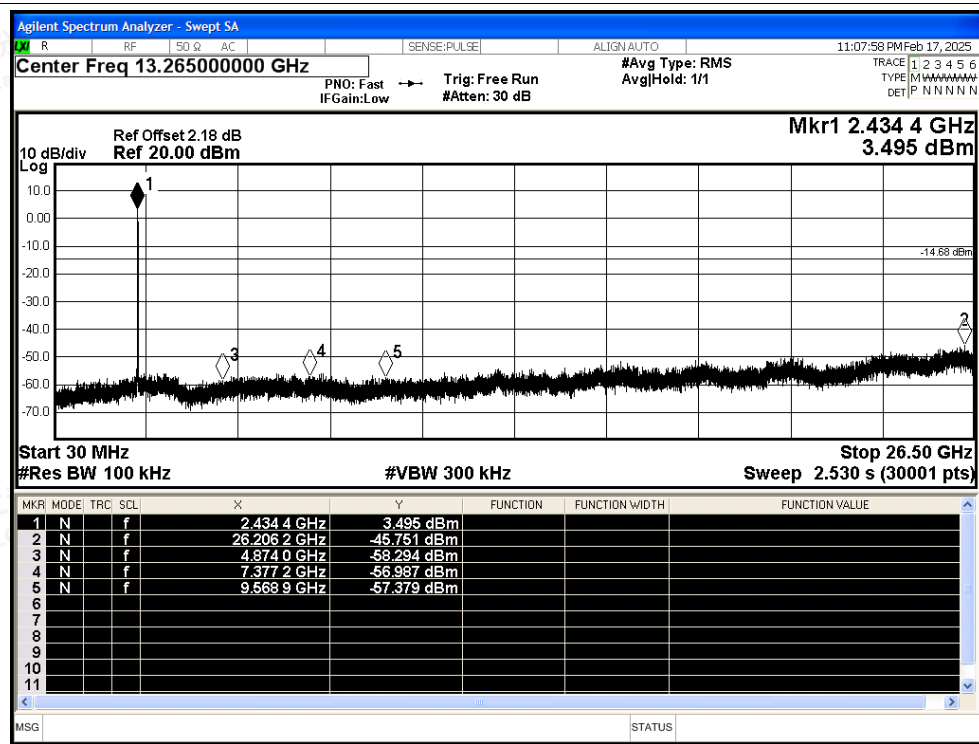
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## Tx. Spurious NVNT b 2437MHz Ant1 Ref



## Tx. Spurious NVNT b 2437MHz Ant1 Emission



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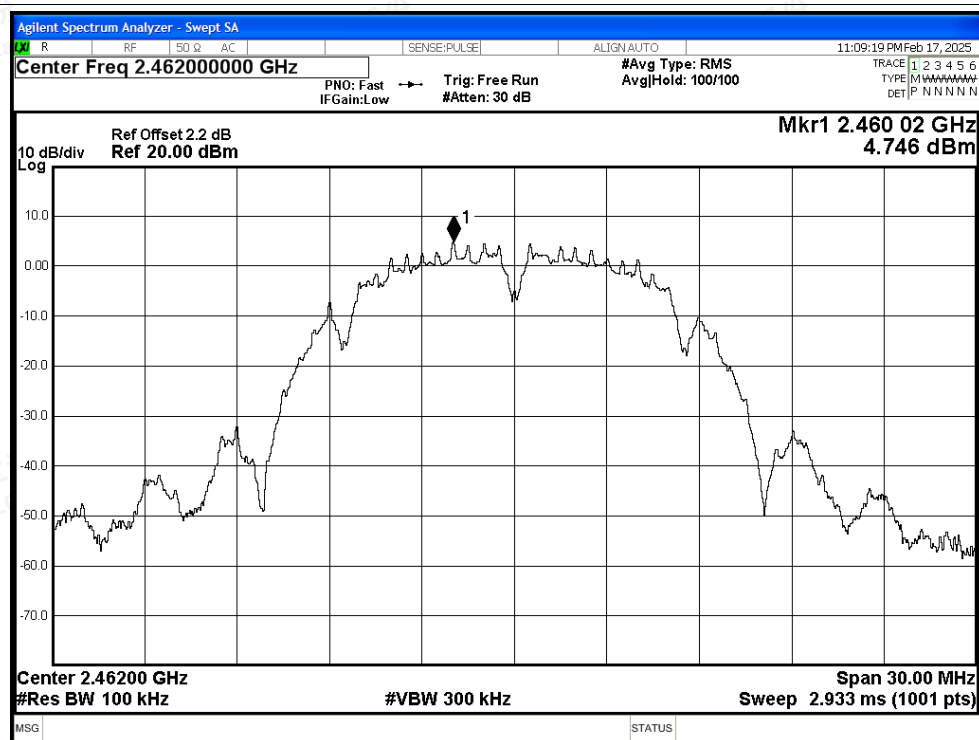
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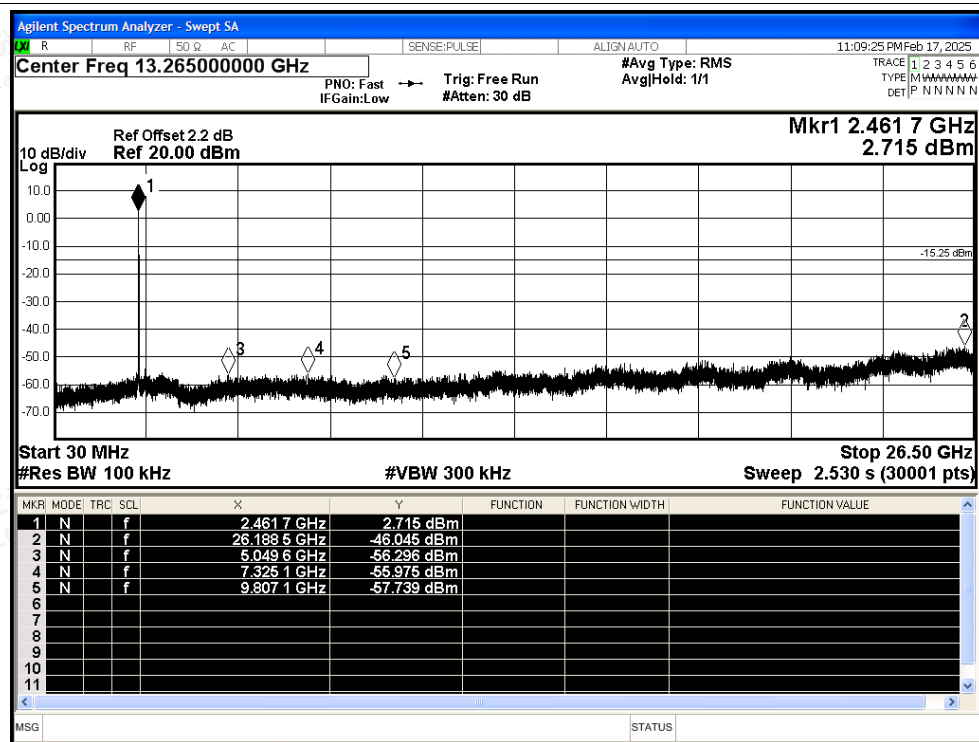
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## Tx. Spurious NVNT b 2462MHz Ant1 Ref



## Tx. Spurious NVNT b 2462MHz Ant1 Emission



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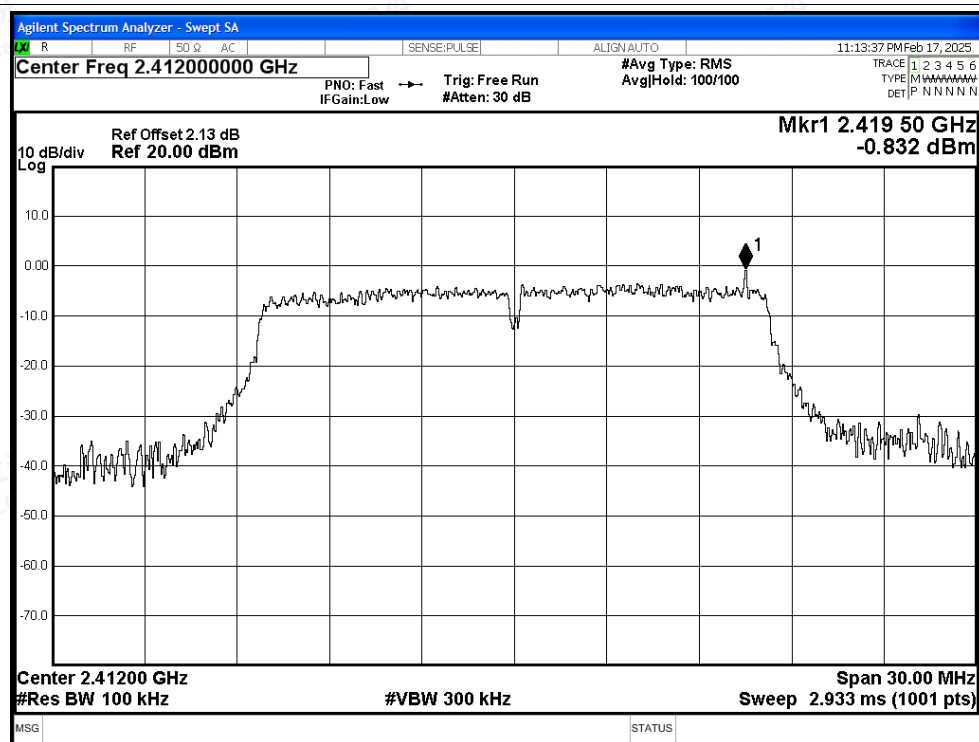
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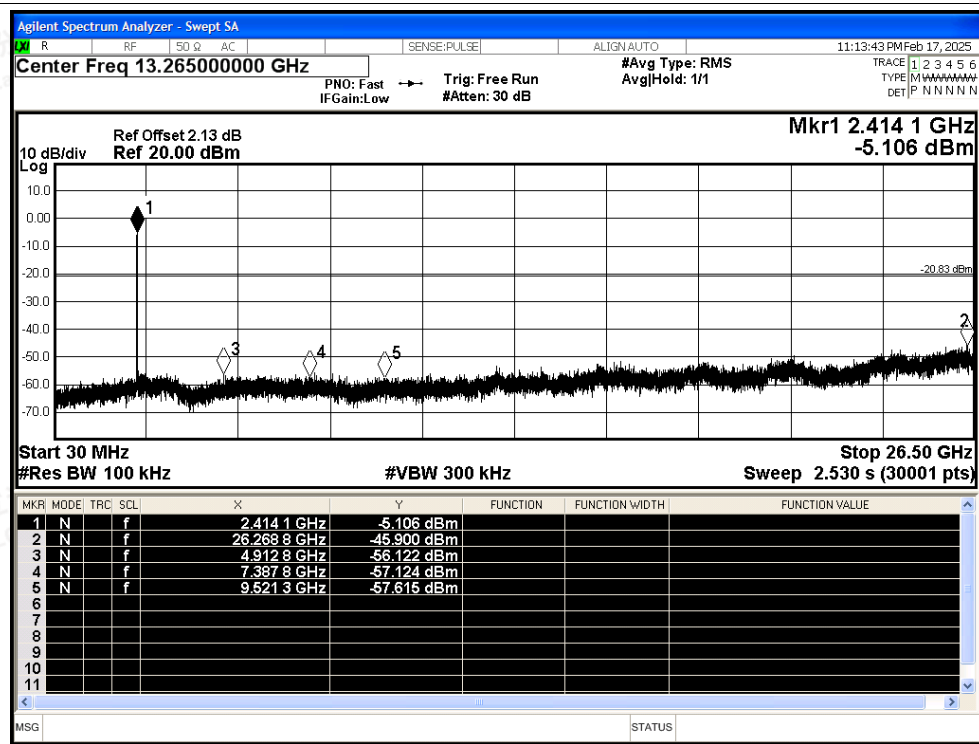
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## Tx. Spurious NVNT g 2412MHz Ant1 Ref

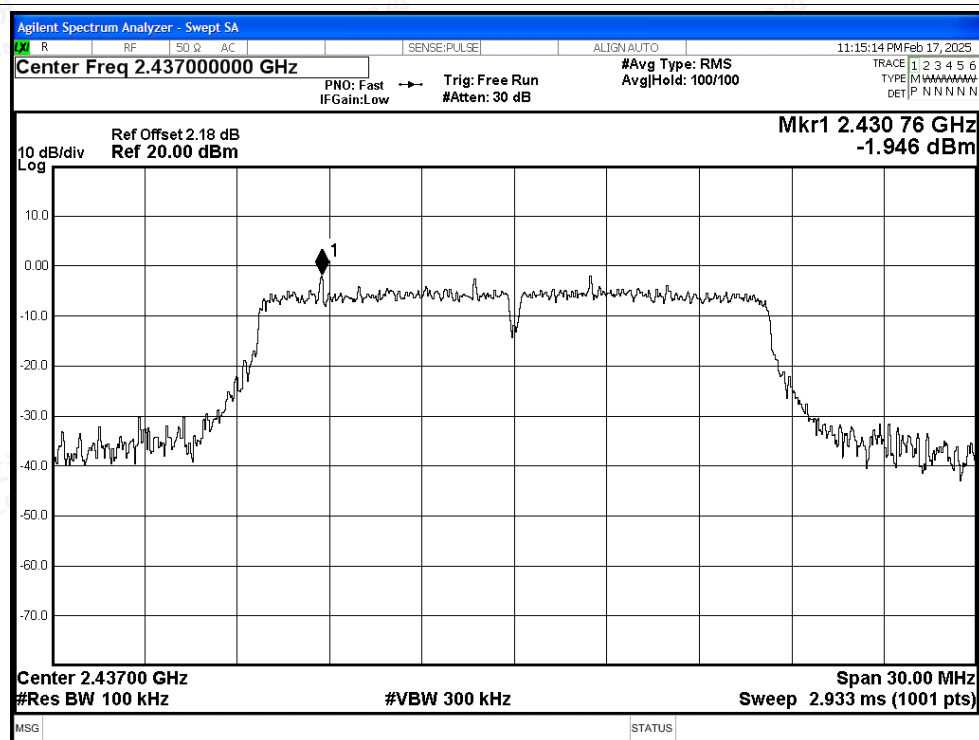


## Tx. Spurious NVNT g 2412MHz Ant1 Emission

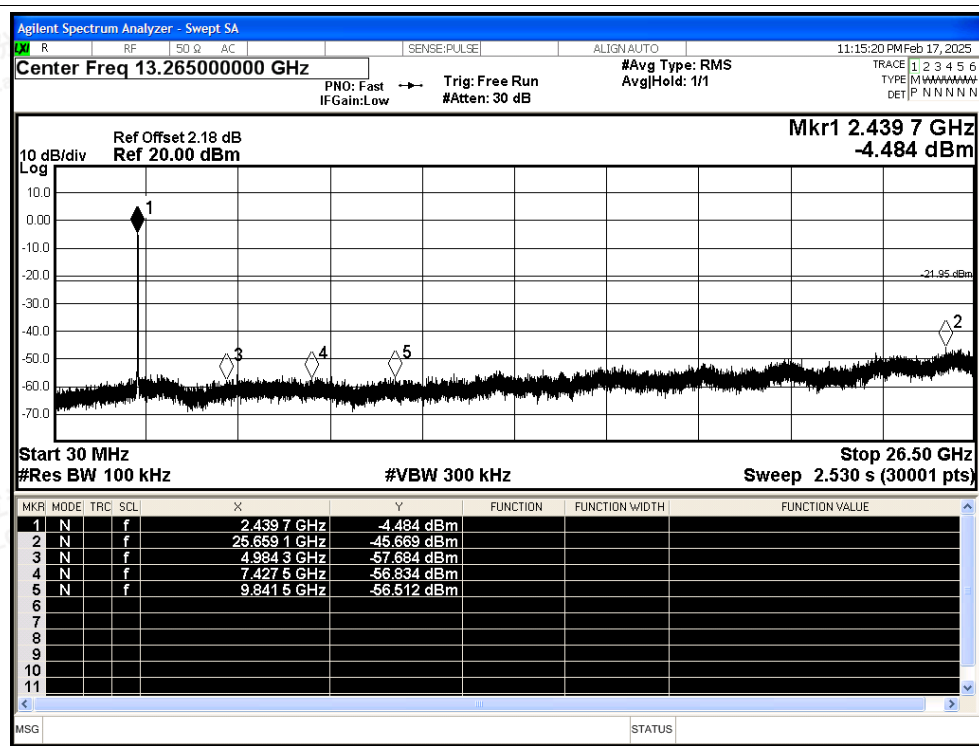




## Tx. Spurious NVNT g 2437MHz Ant1 Ref



## Tx. Spurious NVNT g 2437MHz Ant1 Emission



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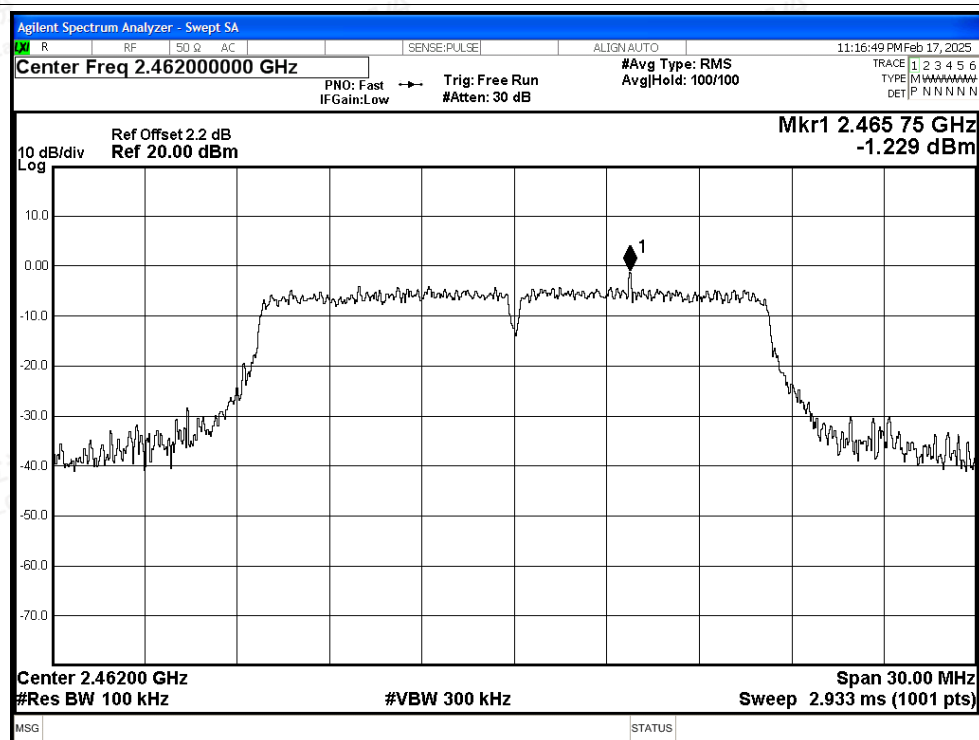
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

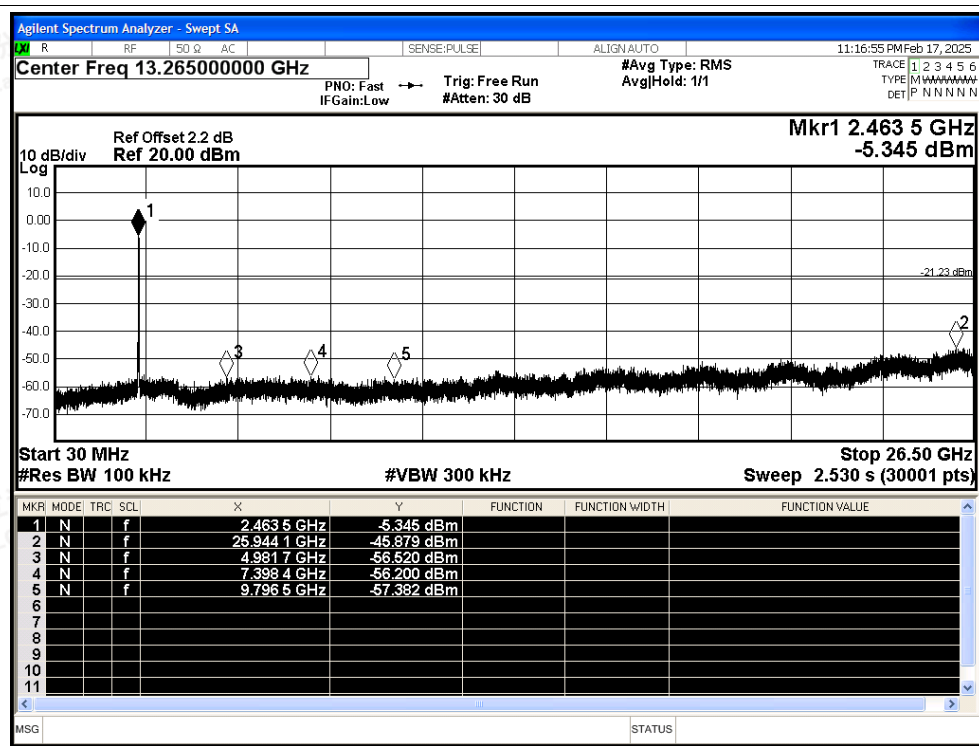
Scan code to check authenticity



## Tx. Spurious NVNT g 2462MHz Ant1 Ref



## Tx. Spurious NVNT g 2462MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

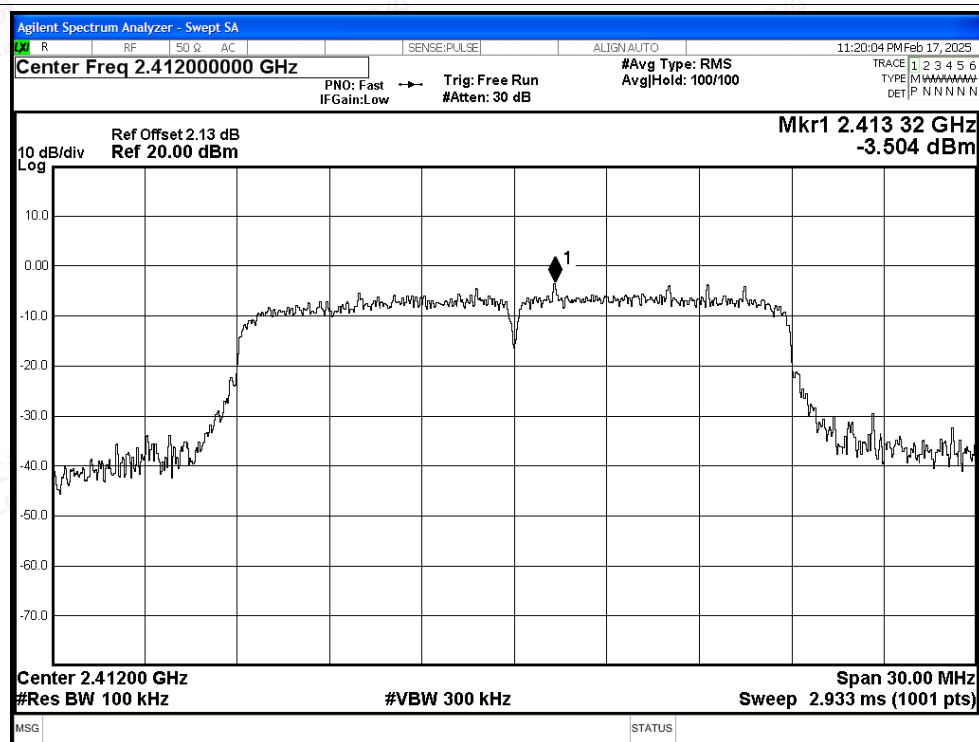
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

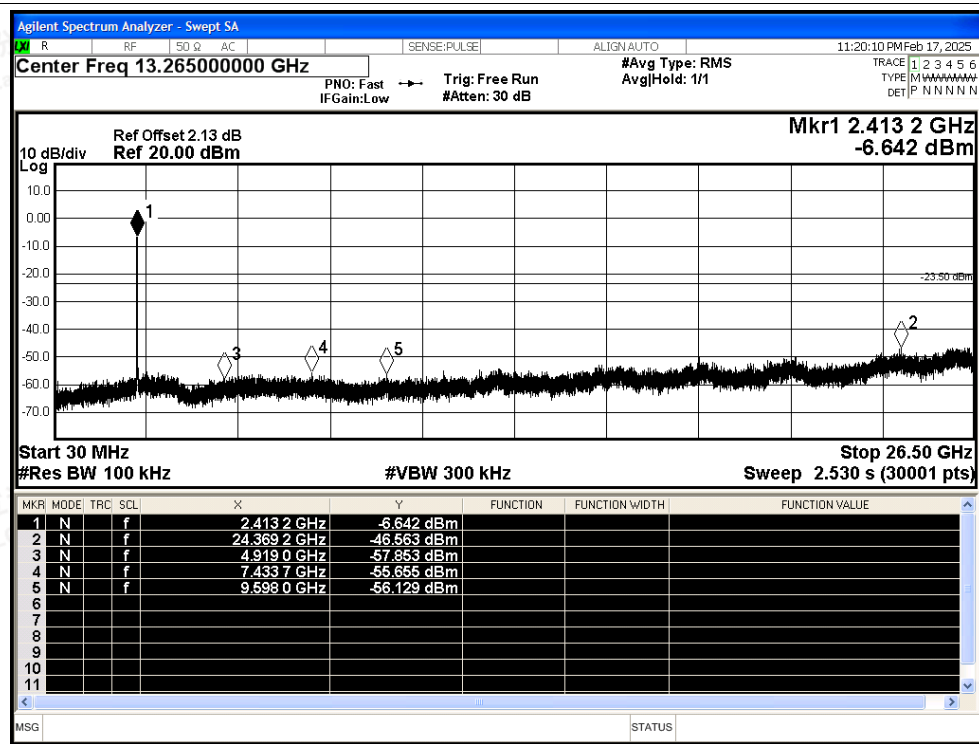
Scan code to check authenticity



## Tx. Spurious NVNT n20 2412MHz Ant1 Ref



## Tx. Spurious NVNT n20 2412MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

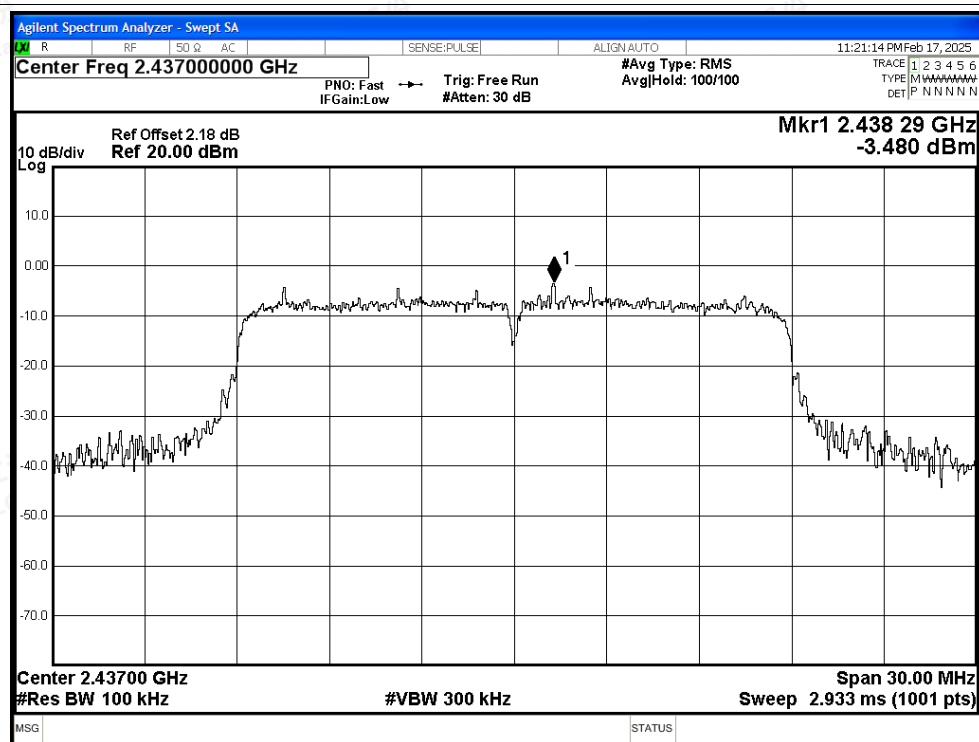
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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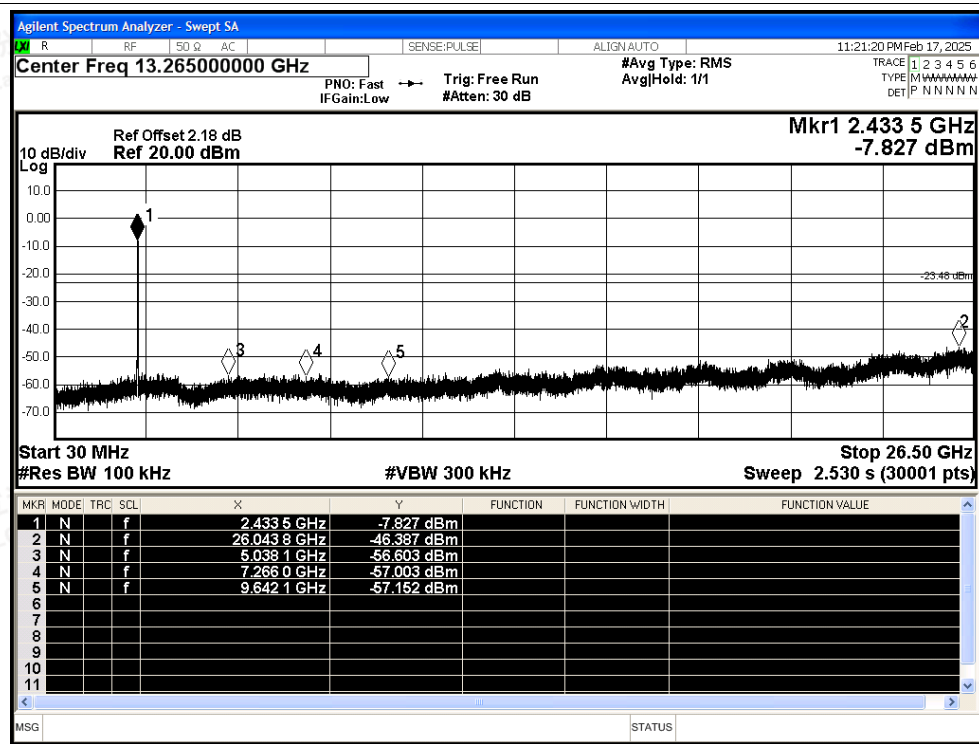
Scan code to check authenticity



## Tx. Spurious NVNT n20 2437MHz Ant1 Ref



## Tx. Spurious NVNT n20 2437MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

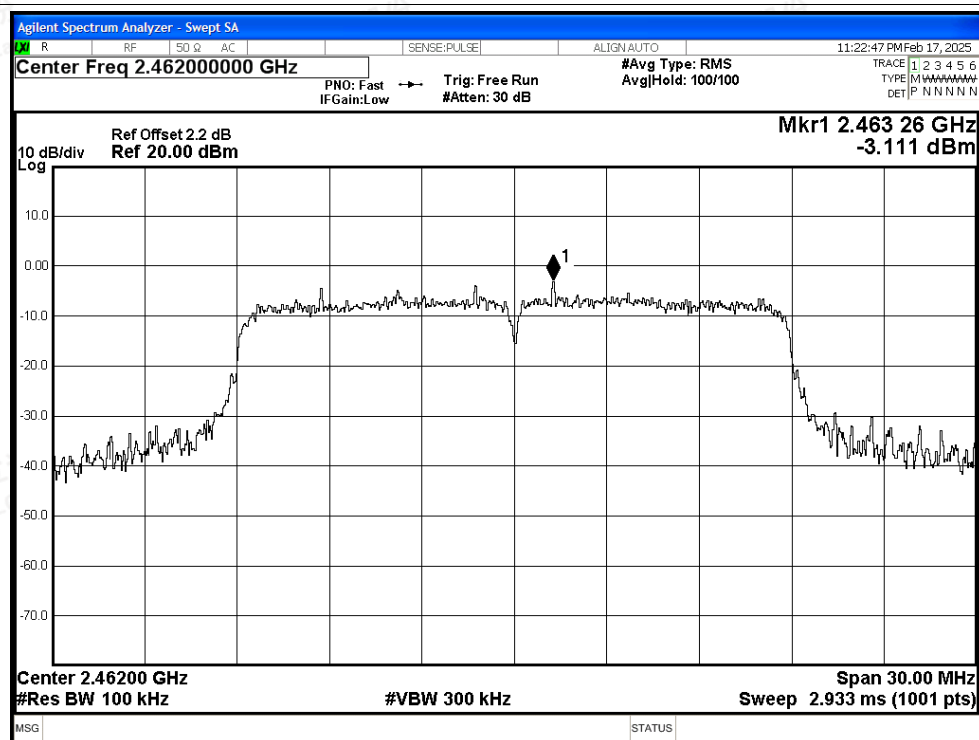
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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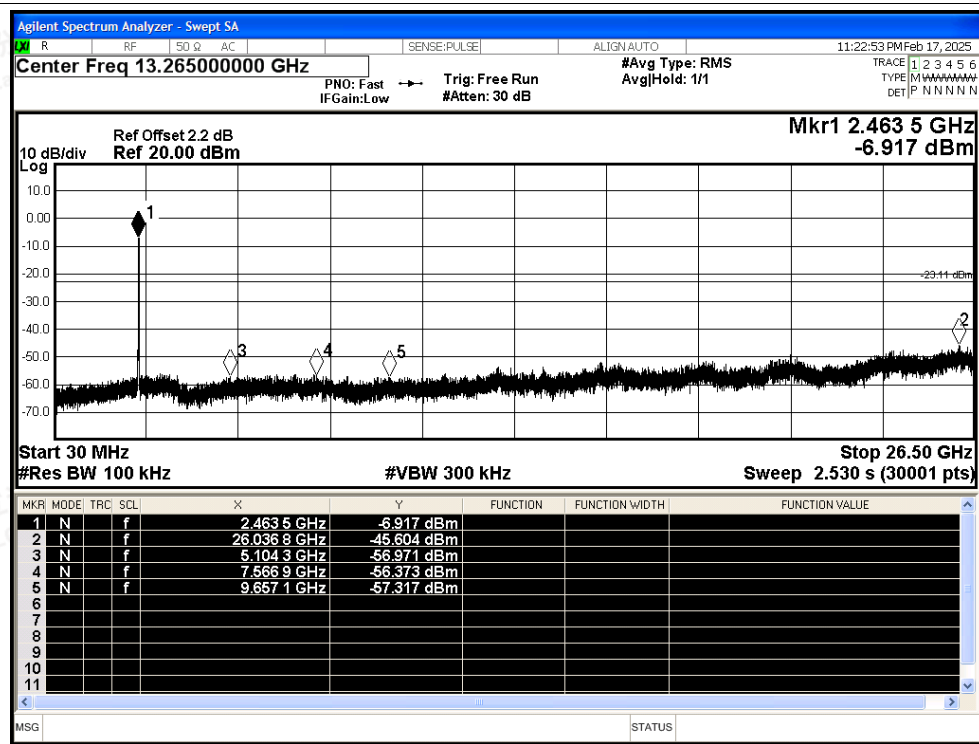
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## Tx. Spurious NVNT n20 2462MHz Ant1 Ref



## 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    | 99.16          | 0                      | 0.15      |
| NVNT      | b    | 2437            | Ant1    | 99.16          | 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    | 97.68          | 0.1                    | 0.37      |
| NVNT      | g    | 2462            | Ant1    | 97.68          | 0.1                    | 0.37      |
| NVNT      | n20  | 2412            | Ant1    | 97.25          | 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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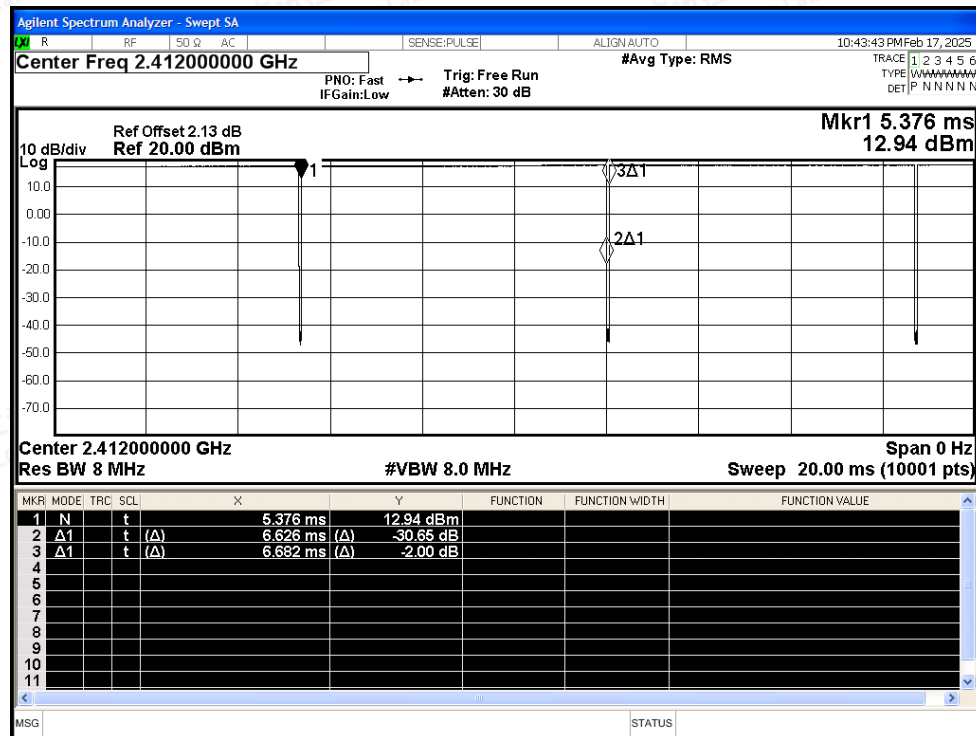
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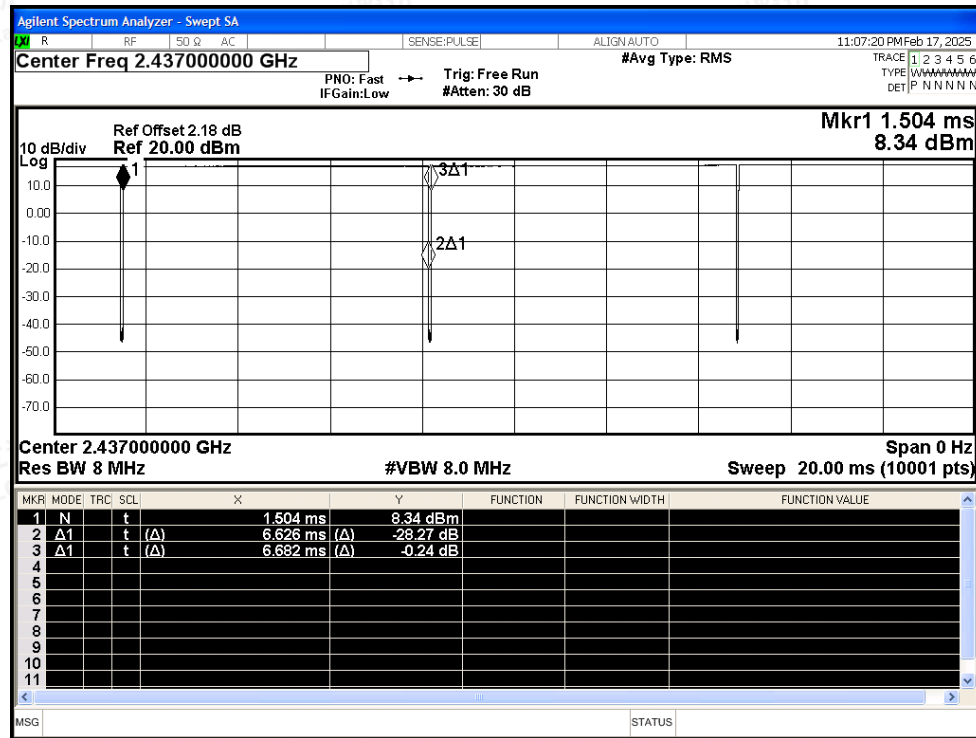


## Test Graphs

## Duty Cycle NVNT b 2412MHz Ant1



## Duty Cycle NVNT b 2437MHz Ant1



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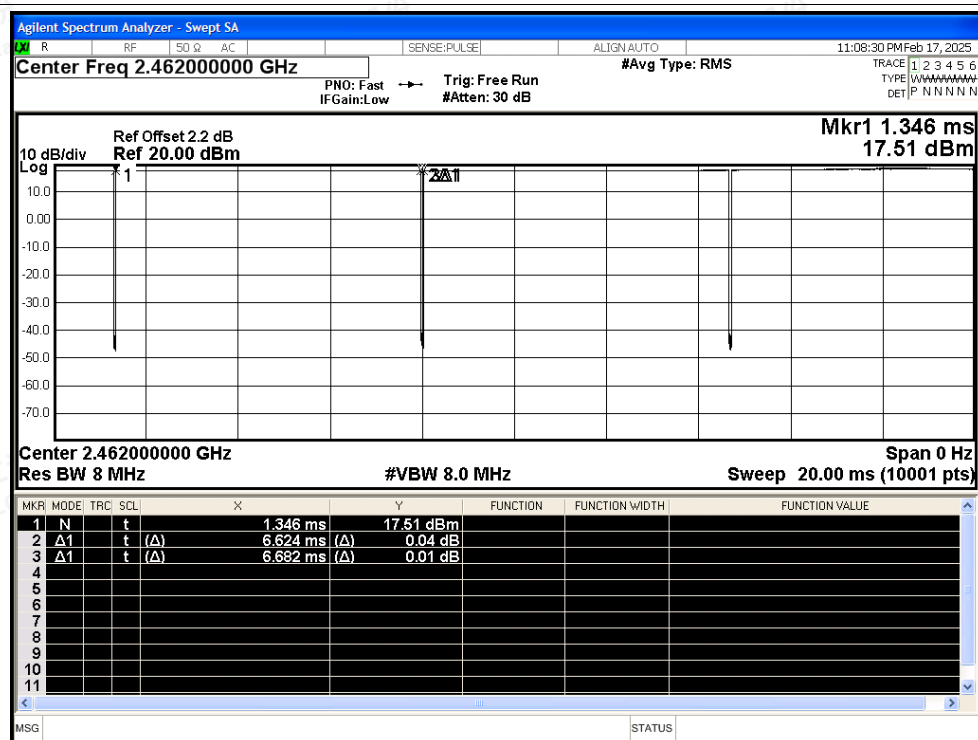
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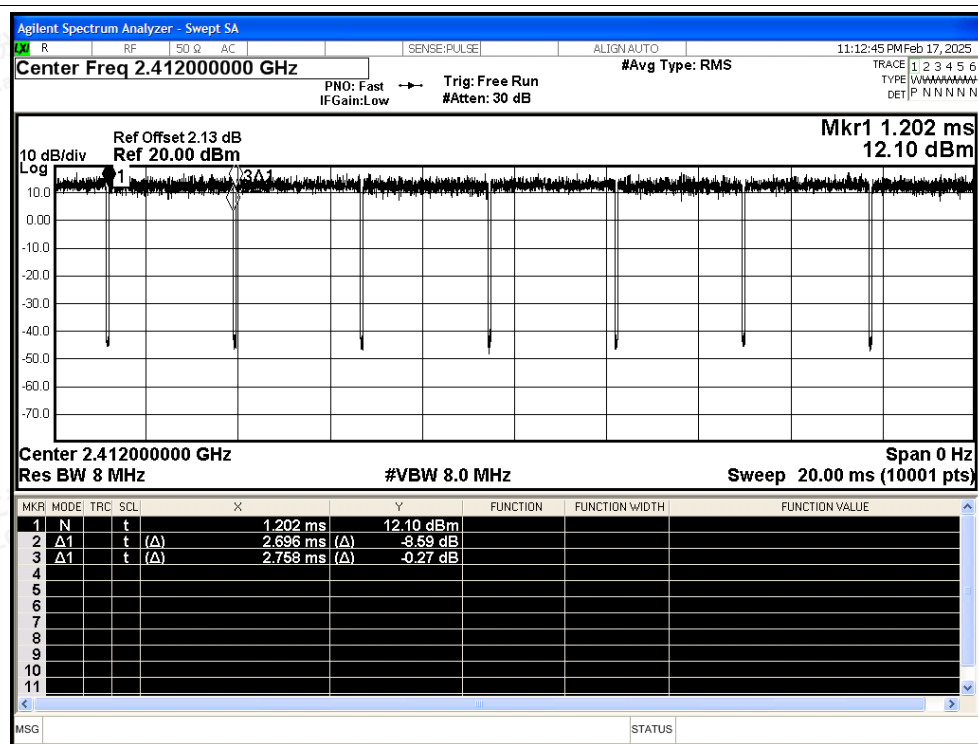
Scan code to check authenticity



## Duty Cycle NVNT b 2462MHz Ant1



## Duty Cycle NVNT g 2412MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

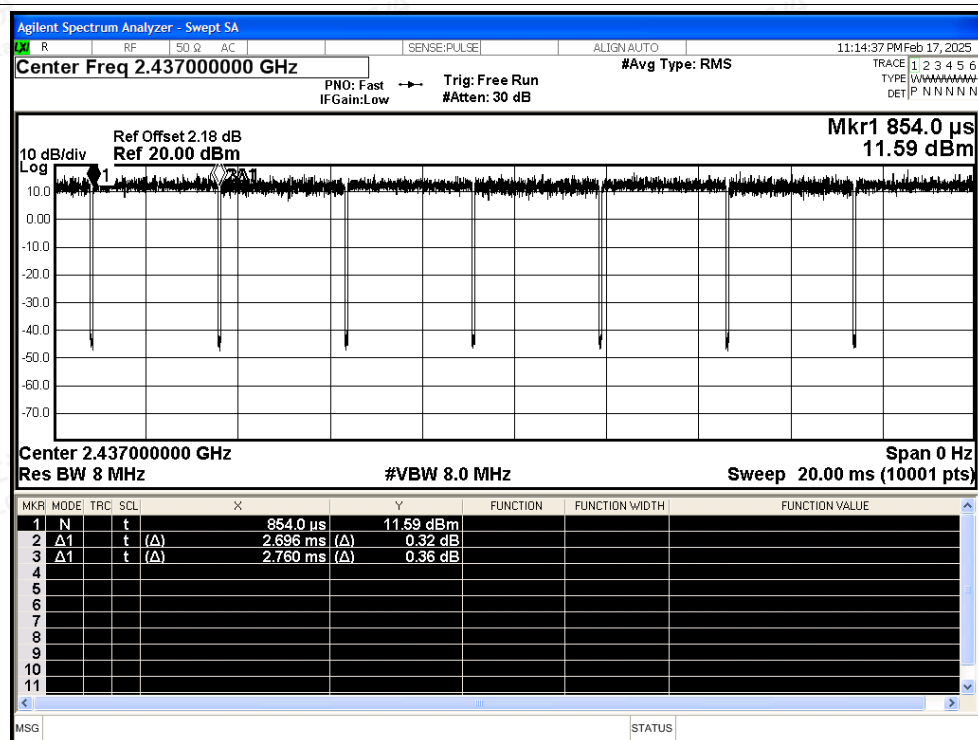
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

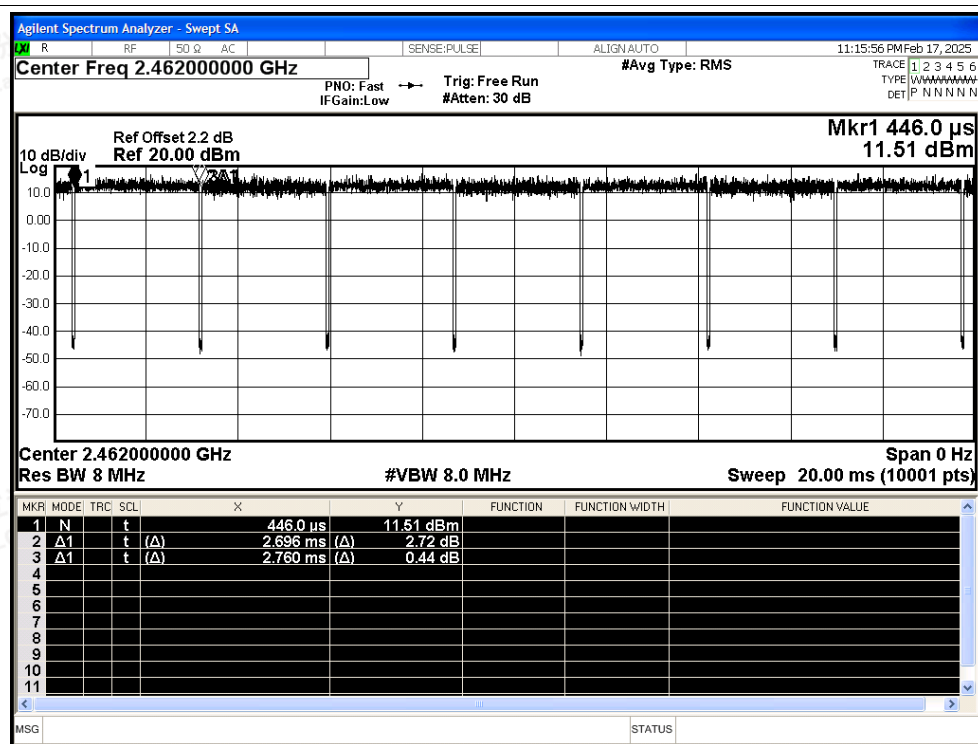
Scan code to check authenticity



## Duty Cycle NVNT g 2437MHz Ant1



## Duty Cycle NVNT g 2462MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

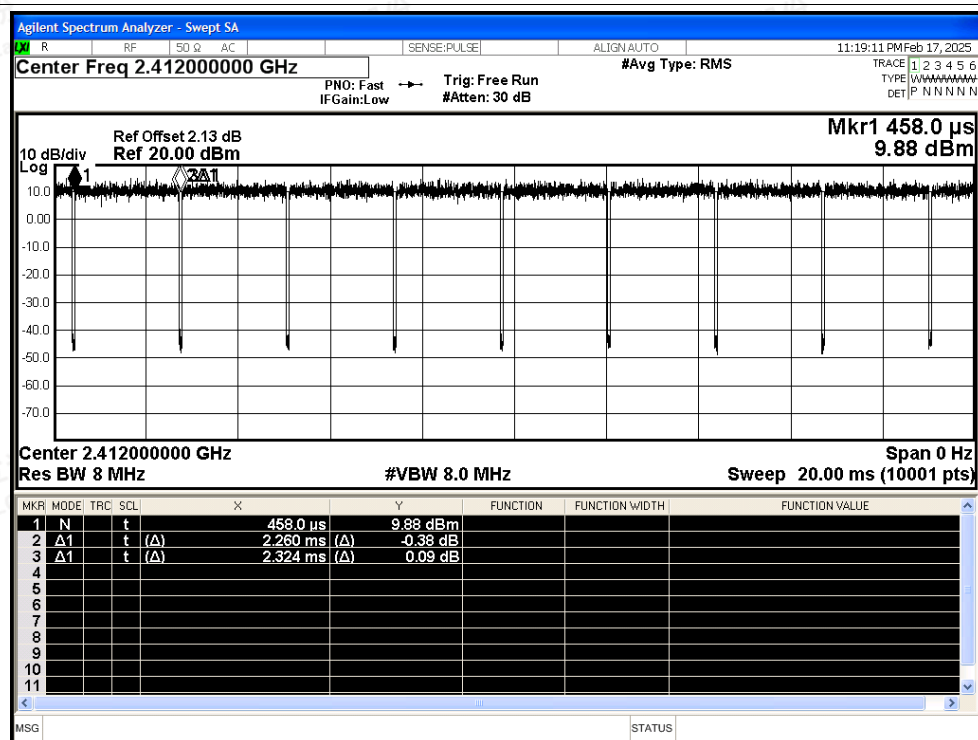
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

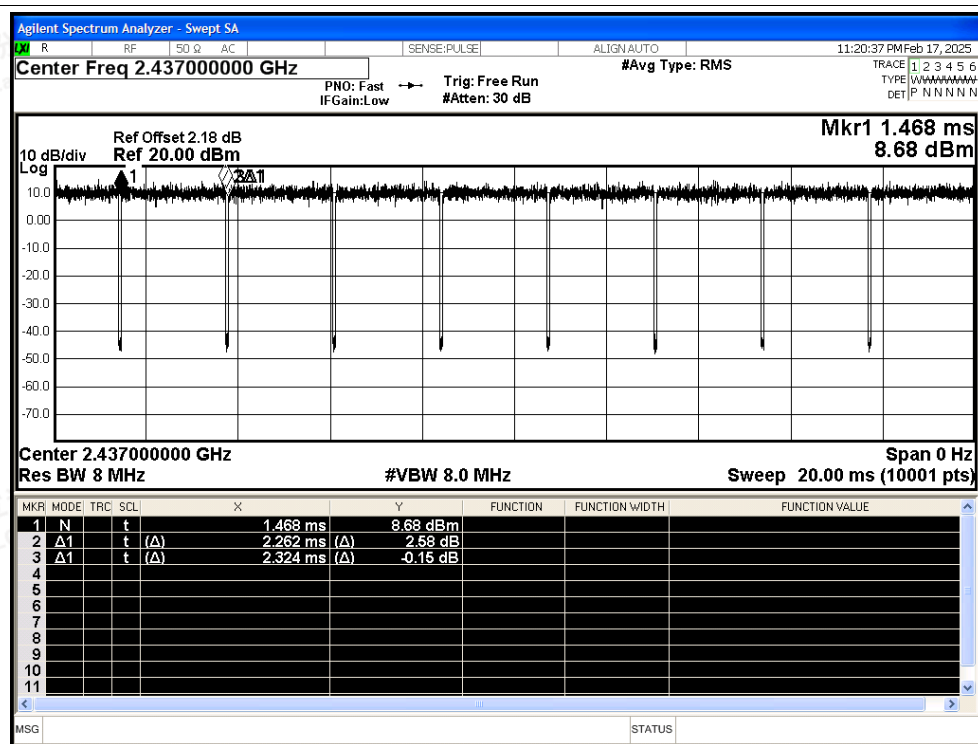
Scan code to check authenticity



## Duty Cycle NVNT n20 2412MHz Ant1



## Duty Cycle NVNT n20 2437MHz Ant1

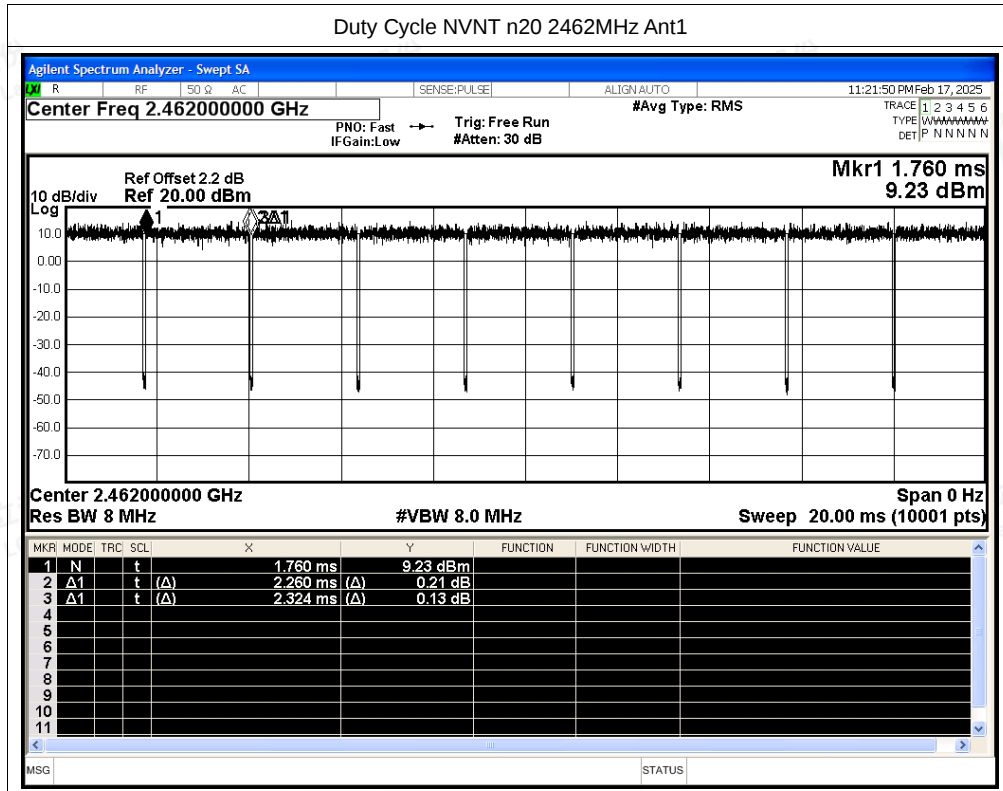


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## B.7 Restrict Band

| Condition | Mode | Frequency (MHz) | Antenna | Spur Freq (MHz) | Power (dBm) | Gain (dBi) | Duty Factor (dB) | E (dBuV/m) | Detector | Limit (dBuV/m) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|------------|------------------|------------|----------|----------------|---------|
| NVNT      | b    | 2412            | Ant1    | 2310            | -51.04      | 2.499      | -                | 46.719     | Peak     | 74             | Pass    |
| NVNT      | b    | 2412            | Ant1    | 2310            | -58.83      | 2.499      | 0                | 38.929     | Average  | 54             | Pass    |
| NVNT      | b    | 2412            | Ant1    | 2388.741        | -46.51      | 2.499      | -                | 51.249     | Peak     | 74             | Pass    |
| NVNT      | b    | 2412            | Ant1    | 2389.911        | -55.47      | 2.499      | 0                | 42.289     | Average  | 54             | Pass    |
| NVNT      | b    | 2412            | Ant1    | 2390            | -47.38      | 2.499      | -                | 50.379     | Peak     | 74             | Pass    |
| NVNT      | b    | 2412            | Ant1    | 2390            | -56.2       | 2.499      | 0                | 41.559     | Average  | 54             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2483.5          | -42.65      | 2.499      | -                | 55.109     | Peak     | 74             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2483.5          | -55.41      | 2.499      | 0                | 42.349     | Average  | 54             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2484.312        | -42.65      | 2.499      | -                | 55.109     | Peak     | 74             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2484.471        | -54.74      | 2.499      | 0                | 43.019     | Average  | 54             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2500            | -50.57      | 2.499      | -                | 47.189     | Peak     | 74             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2500            | -57.96      | 2.499      | 0                | 39.799     | Average  | 54             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2310            | -50.87      | 2.499      | -                | 46.889     | Peak     | 74             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2310            | -58.91      | 2.499      | 0.1              | 38.949     | Average  | 54             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2389.443        | -38.12      | 2.499      | -                | 59.639     | Peak     | 74             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2389.911        | -52.04      | 2.499      | 0.1              | 45.819     | Average  | 54             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2390            | -38.12      | 2.499      | -                | 59.639     | Peak     | 74             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2390            | -54.14      | 2.499      | 0.1              | 43.719     | Average  | 54             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2483.5          | -42.95      | 2.499      | -                | 54.809     | Peak     | 74             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2483.5          | -53.13      | 2.499      | 0.1              | 44.729     | Average  | 54             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2485.637        | -35.93      | 2.499      | -                | 61.829     | Peak     | 74             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2484.153        | -52.66      | 2.499      | 0.1              | 45.199     | Average  | 54             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2500            | -48.96      | 2.499      | -                | 48.799     | Peak     | 74             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2500            | -58.1       | 2.499      | 0.1              | 39.759     | Average  | 54             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2310            | -50.55      | 2.499      | -                | 47.209     | Peak     | 74             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2310            | -58.67      | 2.499      | 0.12             | 39.209     | Average  | 54             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2389.794        | -37.97      | 2.499      | -                | 59.789     | Peak     | 74             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2389.677        | -52.51      | 2.499      | 0.12             | 45.369     | Average  | 54             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2390            | -38.76      | 2.499      | -                | 58.999     | Peak     | 74             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2390            | -52.52      | 2.499      | 0.12             | 45.359     | Average  | 54             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2483.5          | -36.81      | 2.499      | -                | 60.949     | Peak     | 74             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2483.5          | -52.02      | 2.499      | 0.12             | 45.859     | Average  | 54             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2483.517        | -36.71      | 2.499      | -                | 61.049     | Peak     | 74             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2483.835        | -51.38      | 2.499      | 0.12             | 46.499     | Average  | 54             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2500            | -49.14      | 2.499      | -                | 48.619     | Peak     | 74             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2500            | -57.91      | 2.499      | 0.12             | 39.969     | Average  | 54             | Pass    |



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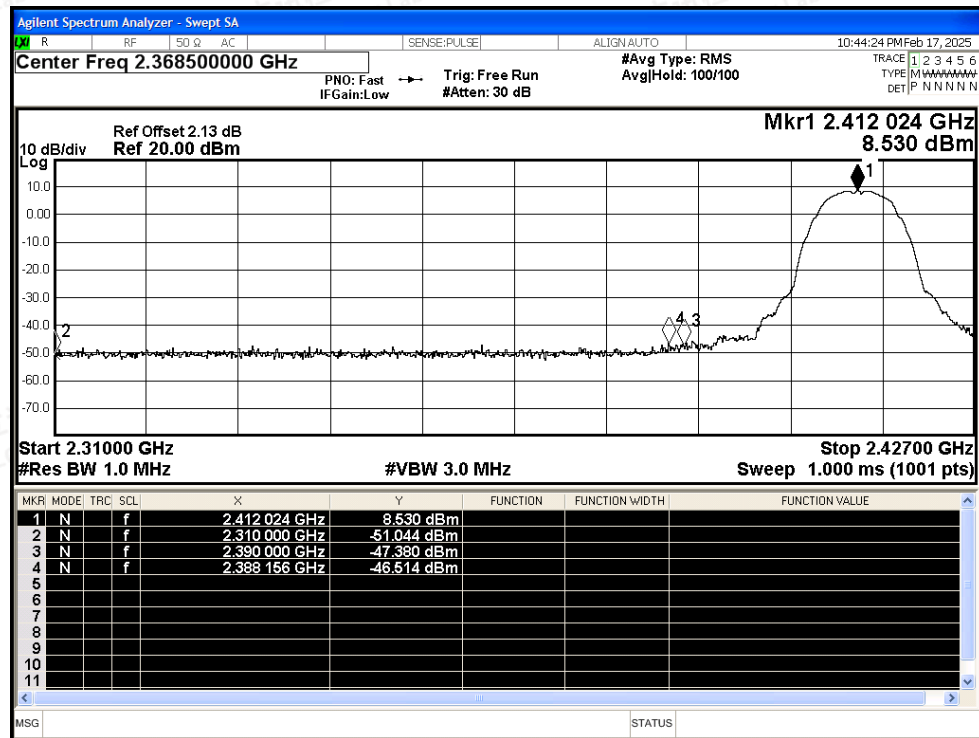
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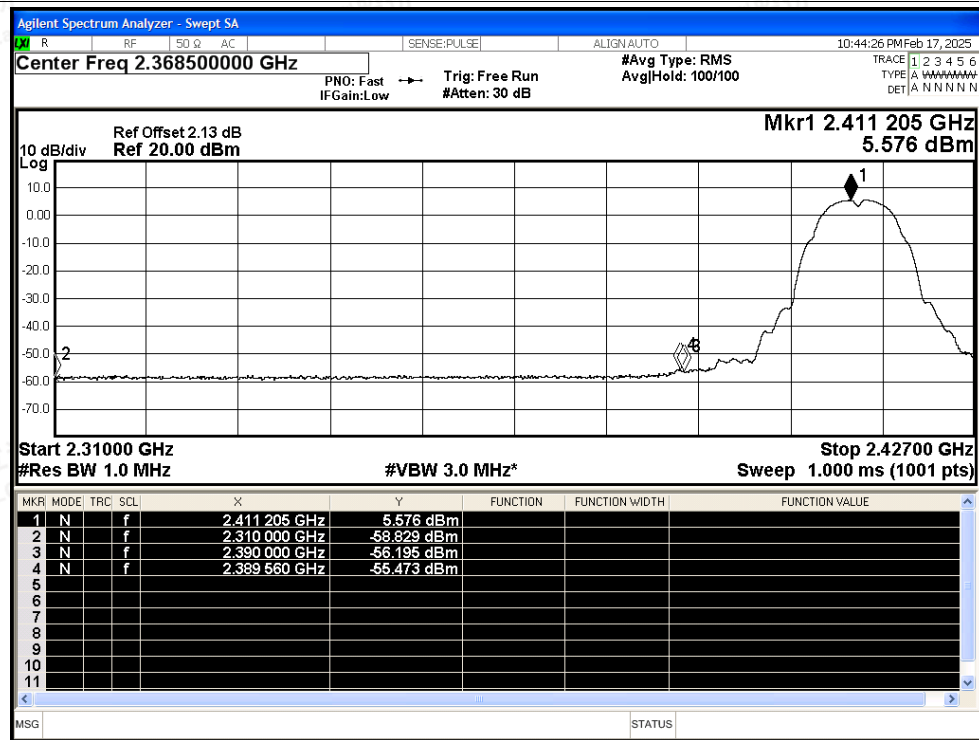


## Test Graphs

## Restrict Band NVNT b 2412MHz Ant1 Peak



## Restrict Band NVNT b 2412MHz Ant1 Average



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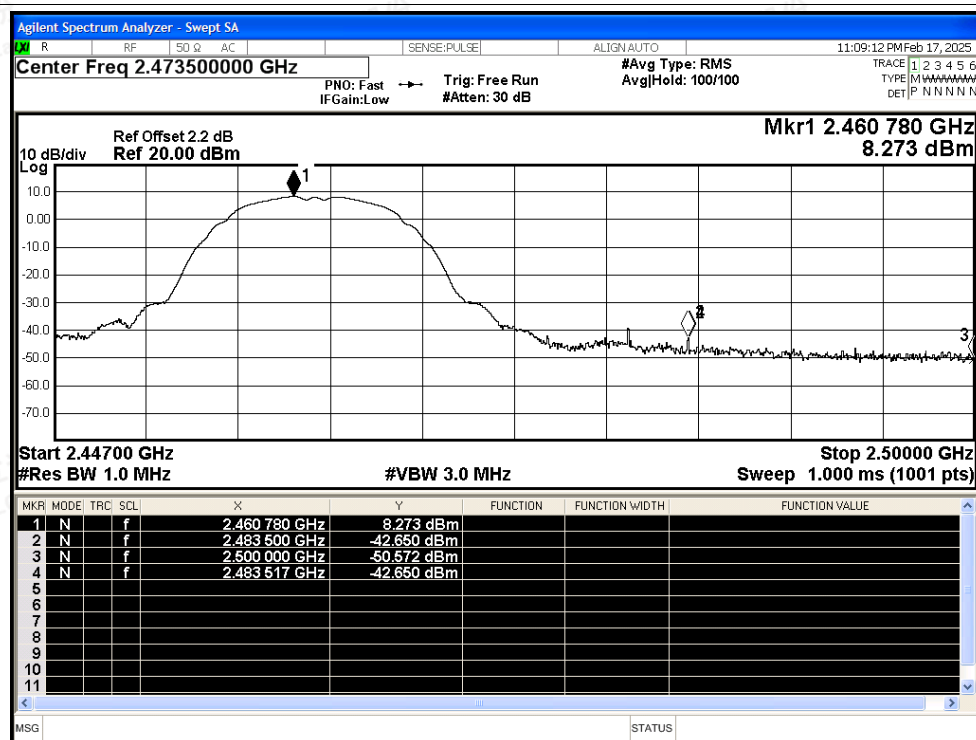
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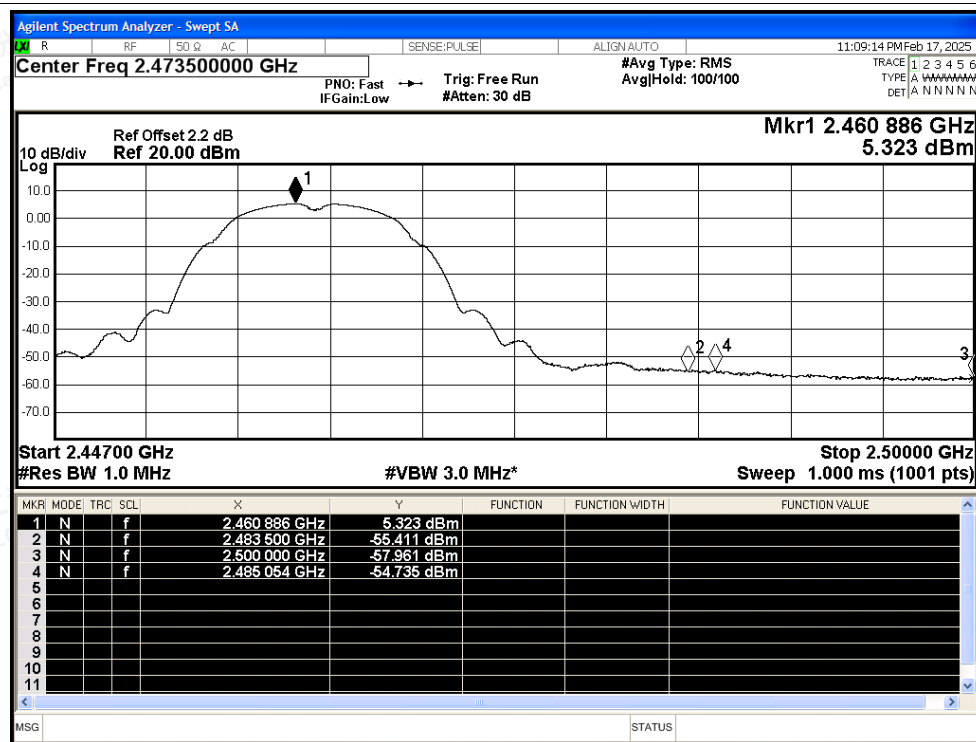
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## Restrict Band NVNT b 2462MHz Ant1 Peak



## Restrict Band NVNT b 2462MHz Ant1 Average



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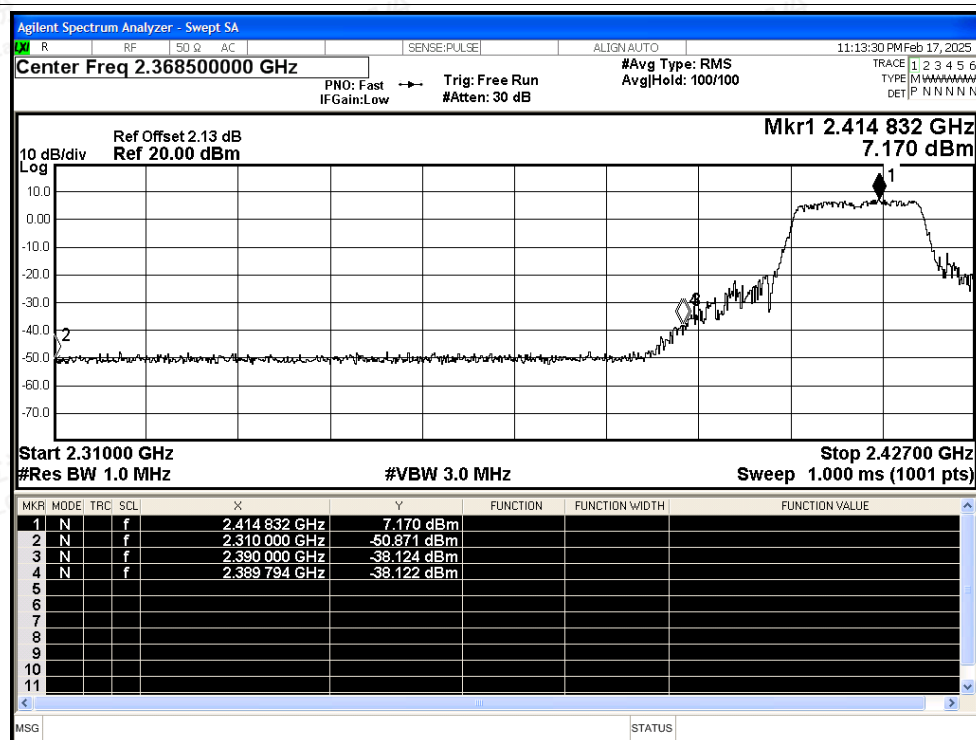
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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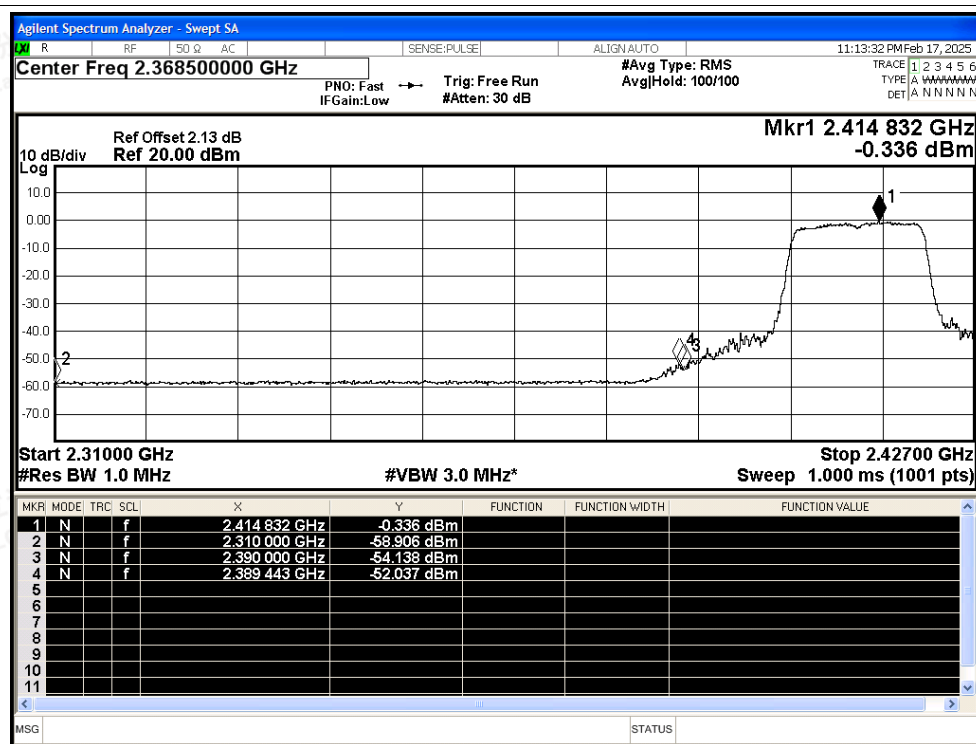
Scan code to check authenticity



## Restrict Band NVNT g 2412MHz Ant1 Peak



## Restrict Band NVNT g 2412MHz Ant1 Average



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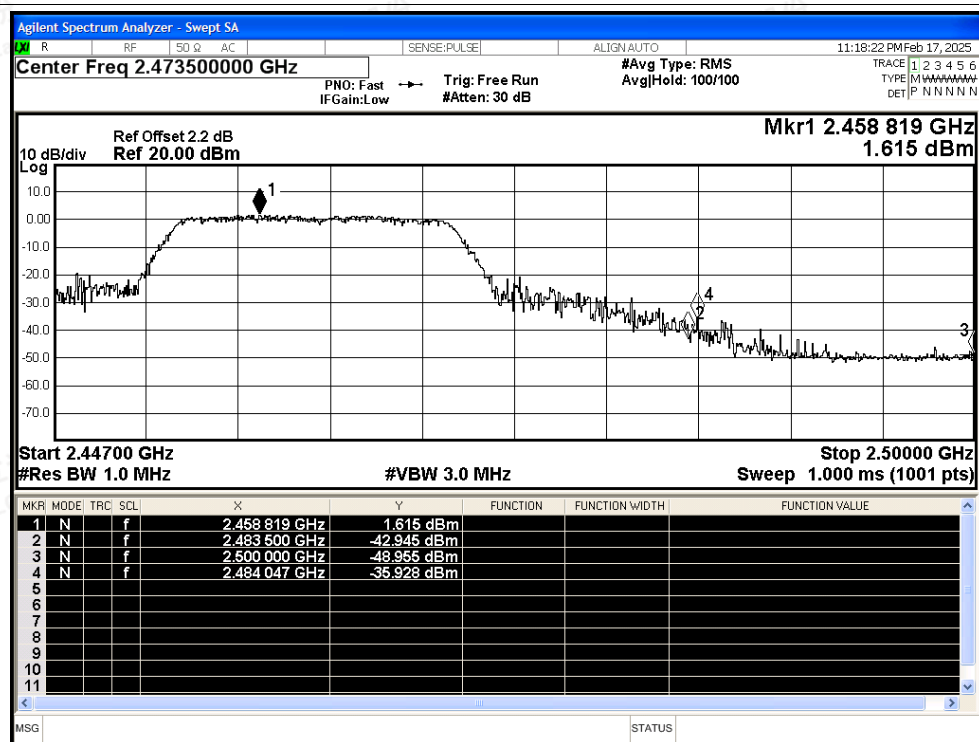
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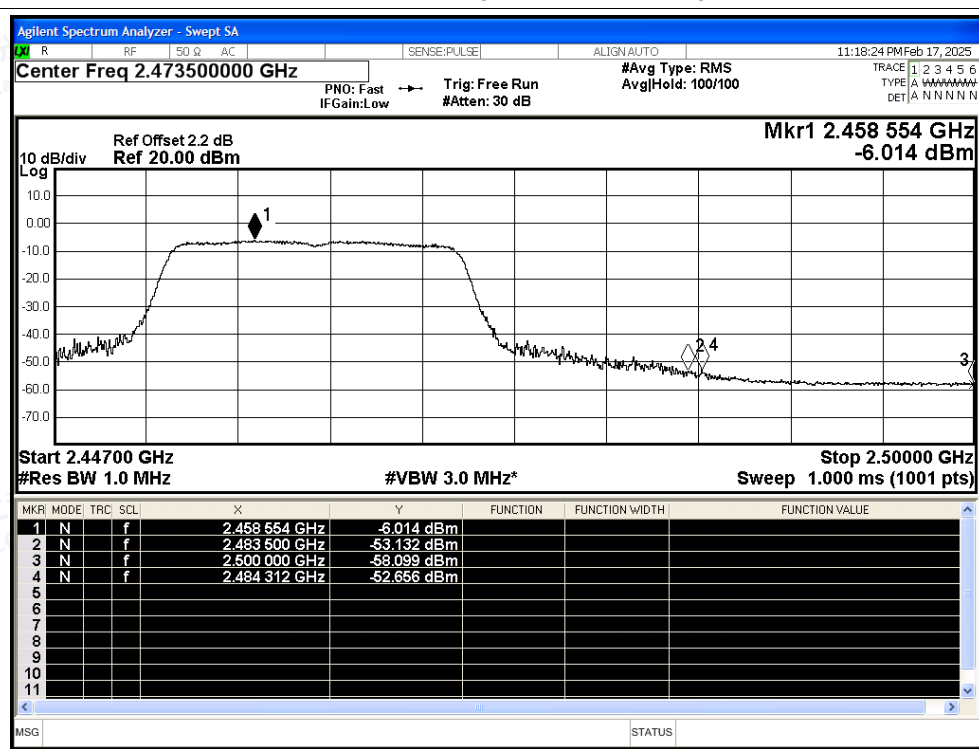
Scan code to check authenticity



## Restrict Band NVNT g 2462MHz Ant1 Peak



## Restrict Band NVNT g 2462MHz Ant1 Average



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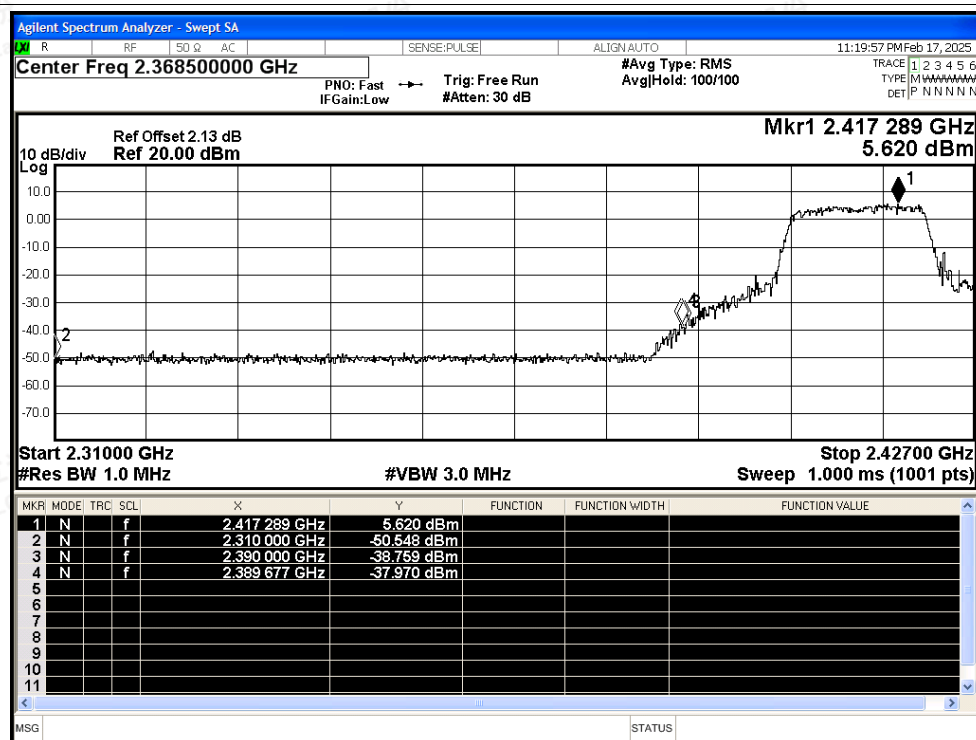
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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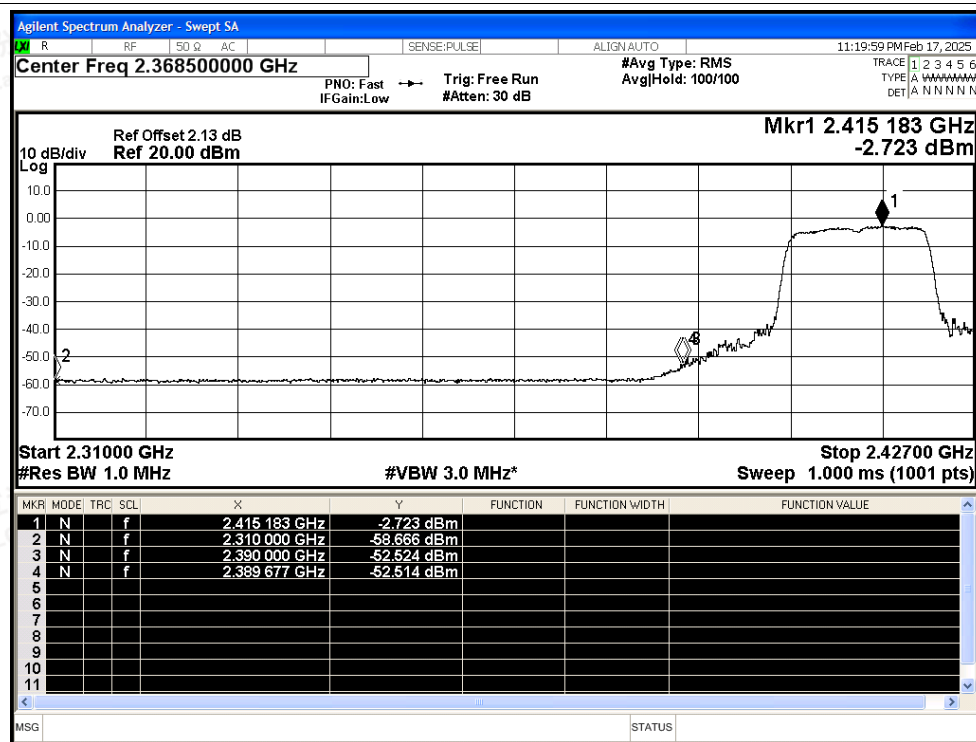
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## Restrict Band NVNT n20 2412MHz Ant1 Peak



## Restrict Band NVNT n20 2412MHz Ant1 Average



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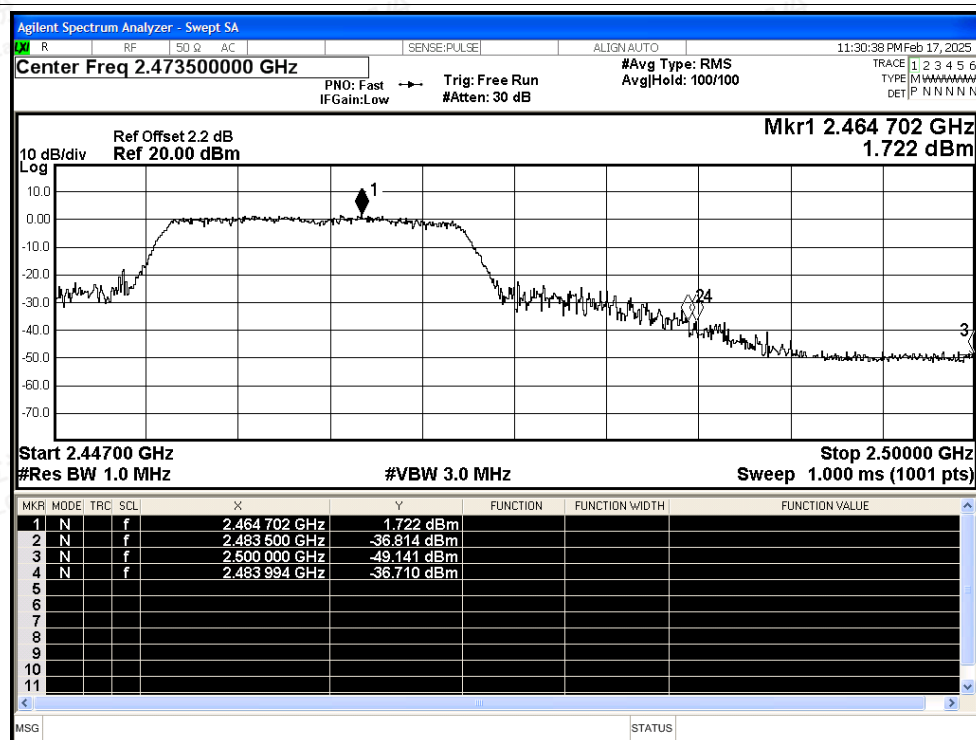
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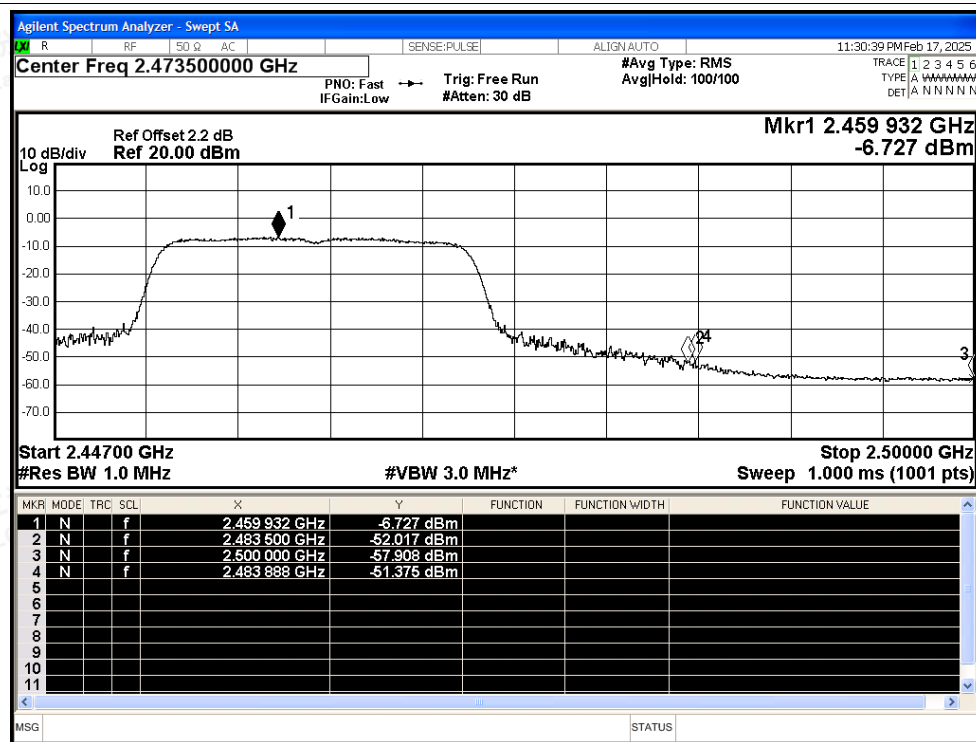
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## Restrict Band NVNT n20 2462MHz Ant1 Peak



## Restrict Band NVNT n20 2462MHz Ant1 Average



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