



## Appendix A

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

Product Name: Bicycle Light

Test Model: Goshawk 1600

#### Environmental Conditions

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



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## A.1 -6dB Bandwidth

| Condition | Mode    | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|---------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | 2.4G 1M | 2402            | Ant1    | 0.706                 | $\geq 0.5$                  | Pass    |
| NVNT      | 2.4G 1M | 2440            | Ant1    | 0.702                 | $\geq 0.5$                  | Pass    |
| NVNT      | 2.4G 1M | 2480            | Ant1    | 0.738                 | $\geq 0.5$                  | Pass    |
| NVNT      | 2.4G 2M | 2402            | Ant1    | 1.122                 | $\geq 0.5$                  | Pass    |
| NVNT      | 2.4G 2M | 2440            | Ant1    | 1.14                  | $\geq 0.5$                  | Pass    |
| NVNT      | 2.4G 2M | 2480            | Ant1    | 1.121                 | $\geq 0.5$                  | Pass    |



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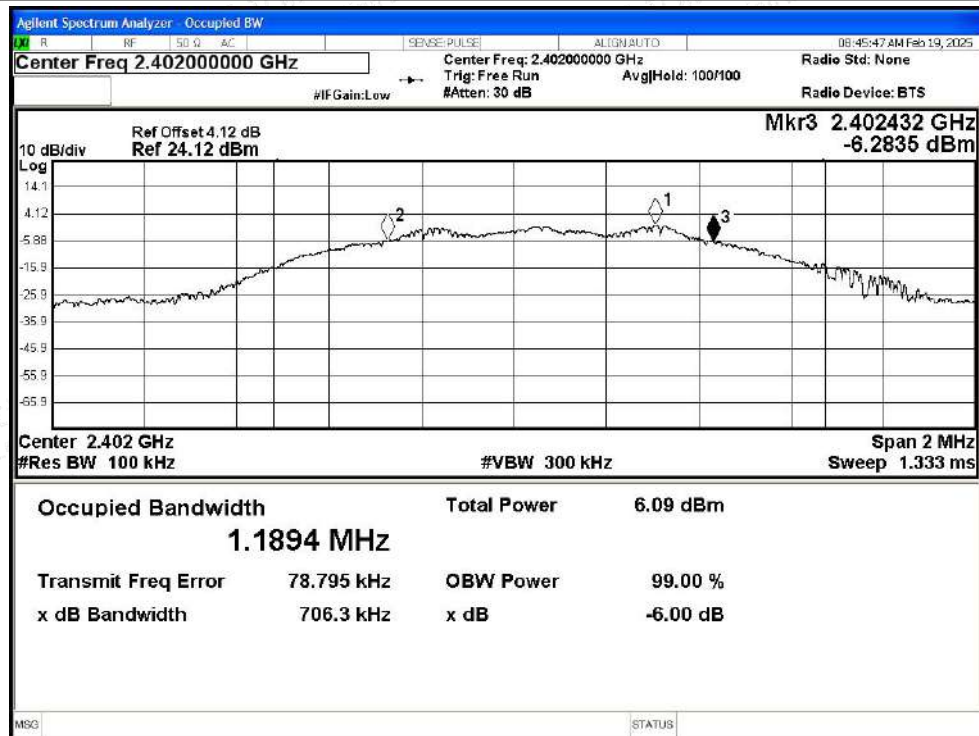
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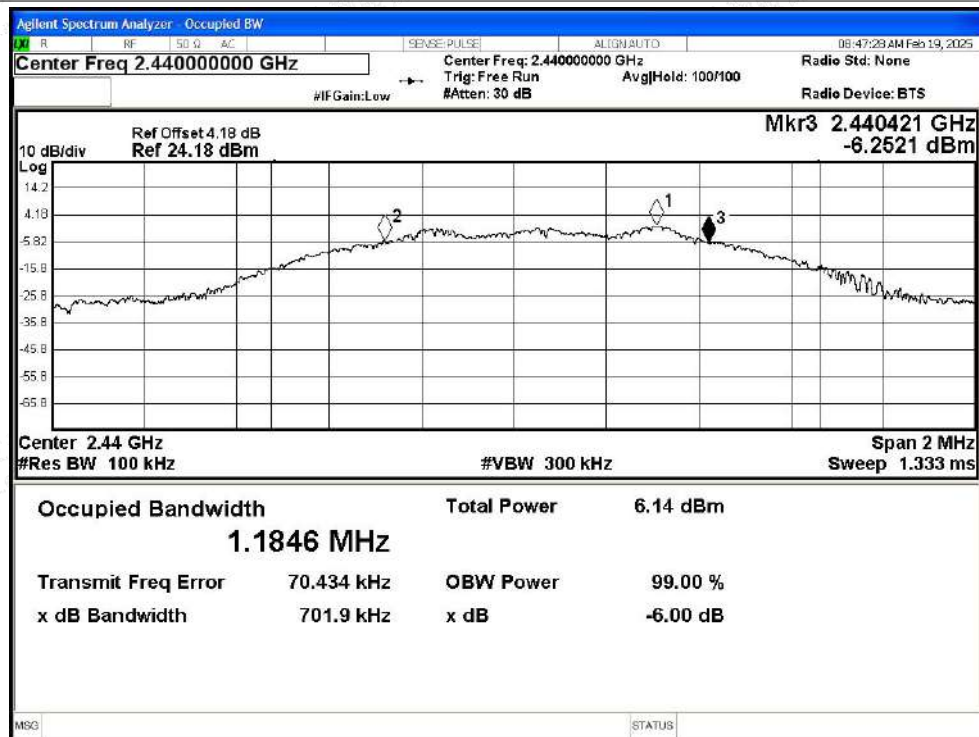


## Test Graphs

-6dB Bandwidth NVNT 2.4G 1M 2402MHz Ant1



-6dB Bandwidth NVNT 2.4G 1M 2440MHz Ant1

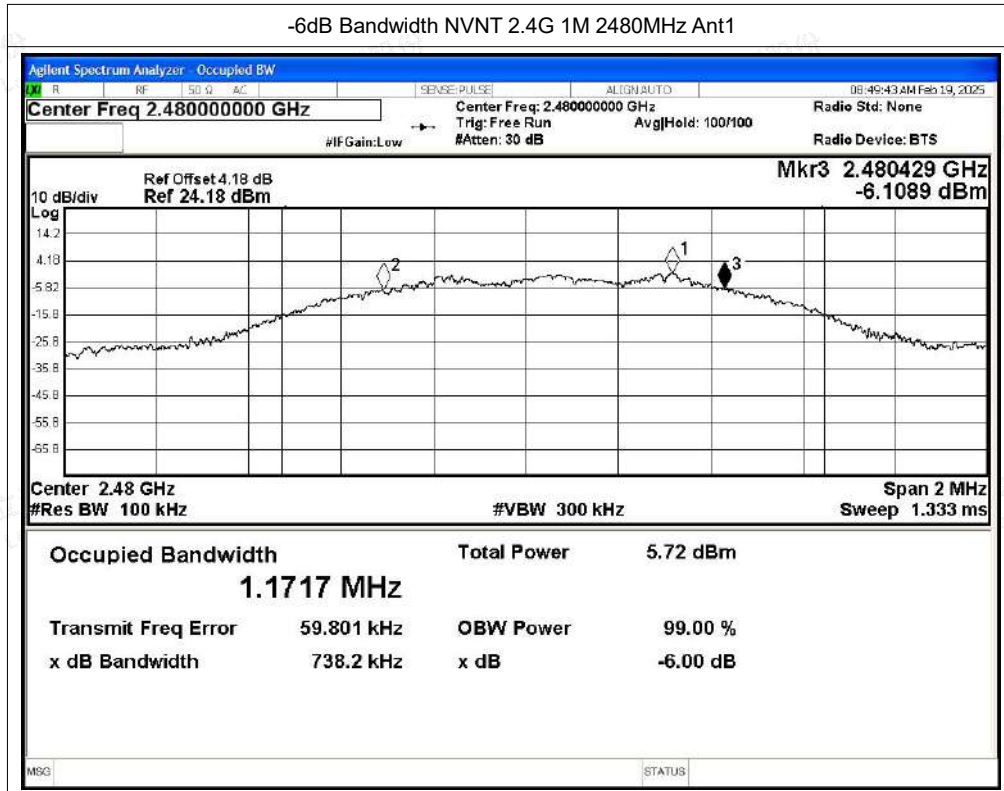


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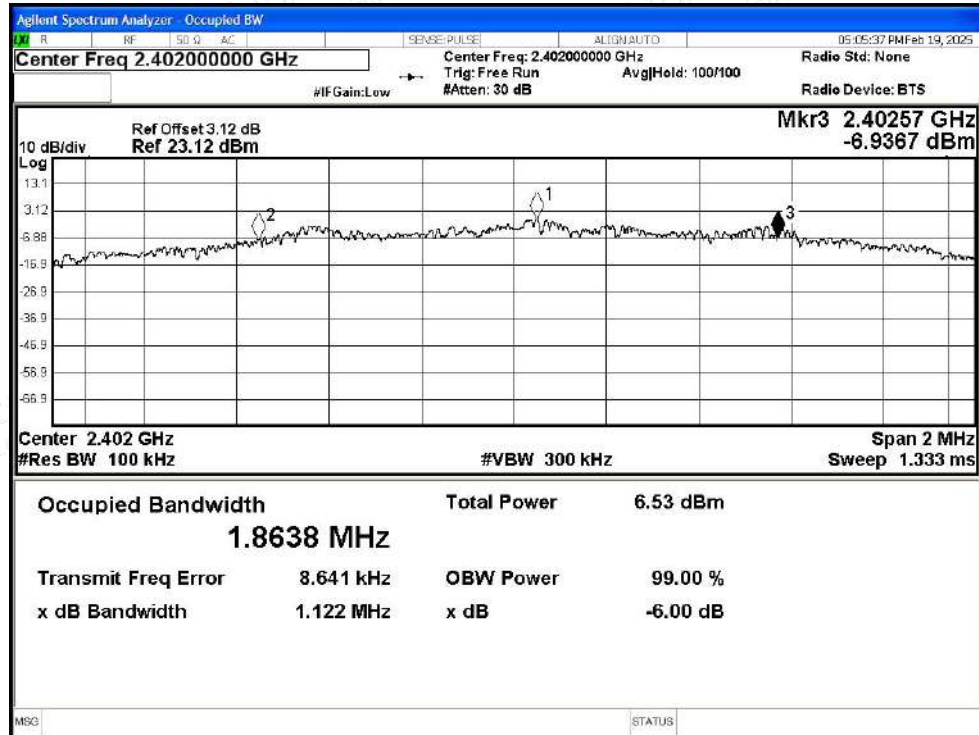
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## Test Graphs

-6dB Bandwidth NVNT 2.4G 2M 2402MHz Ant1



-6dB Bandwidth NVNT 2.4G 2M 2440MHz Ant1

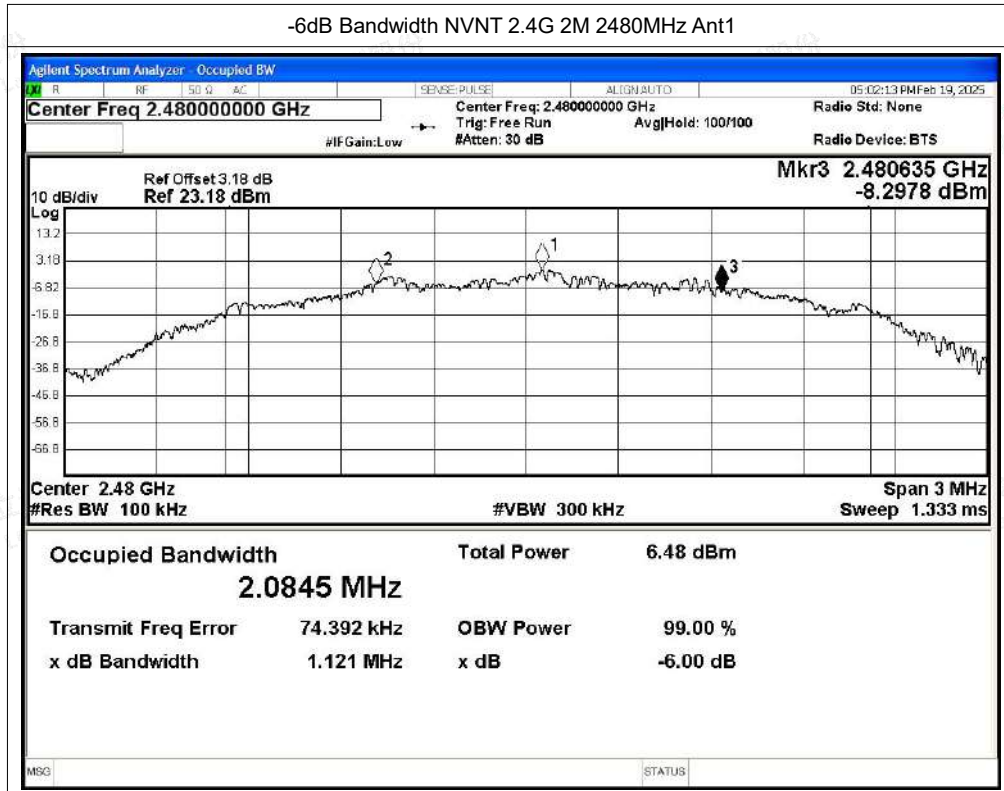


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## A.2 Maximum Conducted Output Power

| Condition | Mode    | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|---------|-----------------|---------|-----------------------|-------------|---------|
| NVNT      | 2.4G 1M | 2402            | Ant1    | 6.18                  | 30          | Pass    |
| NVNT      | 2.4G 1M | 2440            | Ant1    | 6                     | 30          | Pass    |
| NVNT      | 2.4G 1M | 2480            | Ant1    | 5.86                  | 30          | Pass    |
| NVNT      | 2.4G 2M | 2402            | Ant1    | 5.18                  | 30          | Pass    |
| NVNT      | 2.4G 2M | 2440            | Ant1    | 5                     | 30          | Pass    |
| NVNT      | 2.4G 2M | 2480            | Ant1    | 4.86                  | 30          | Pass    |



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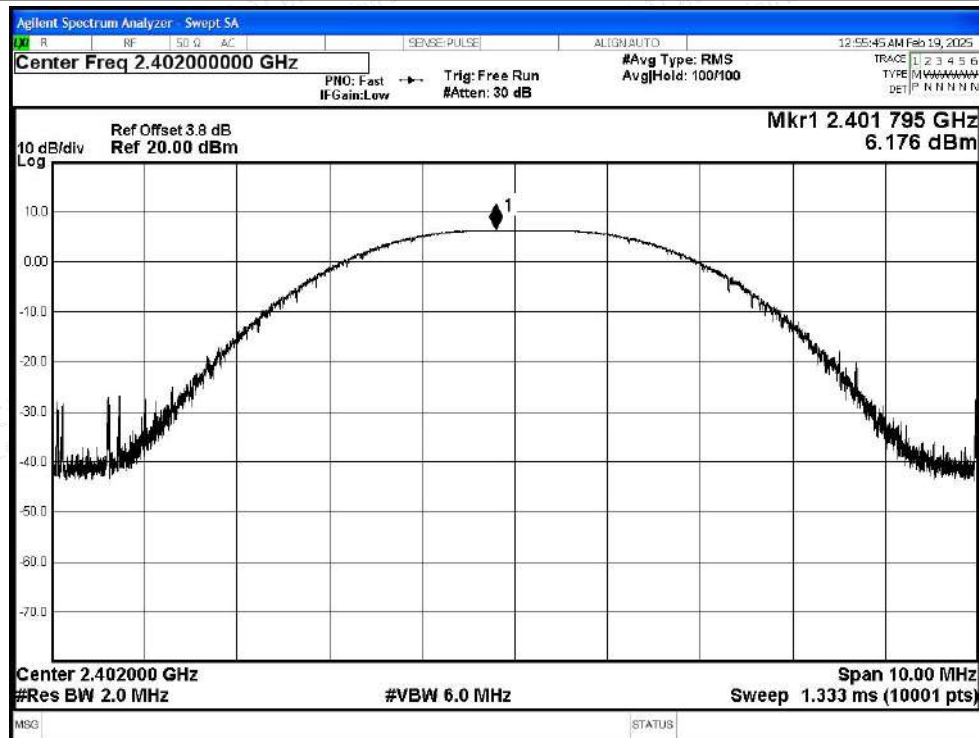
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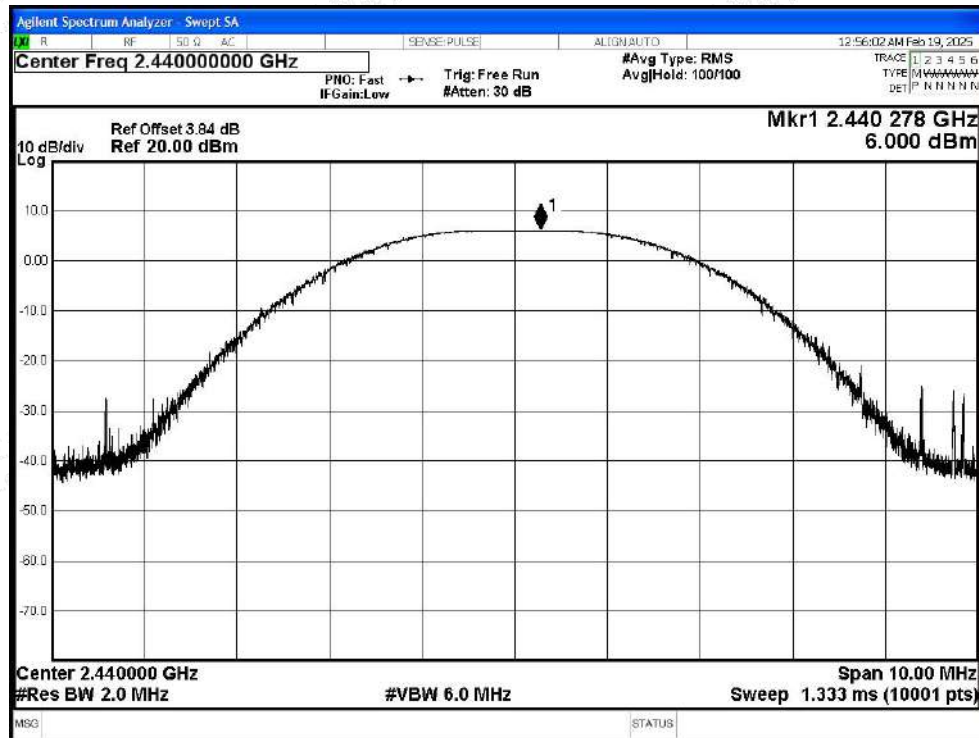


## Test Graphs

Power NVNT 2.4G 1M 2402MHz Ant1



Power NVNT 2.4G 1M 2440MHz Ant1

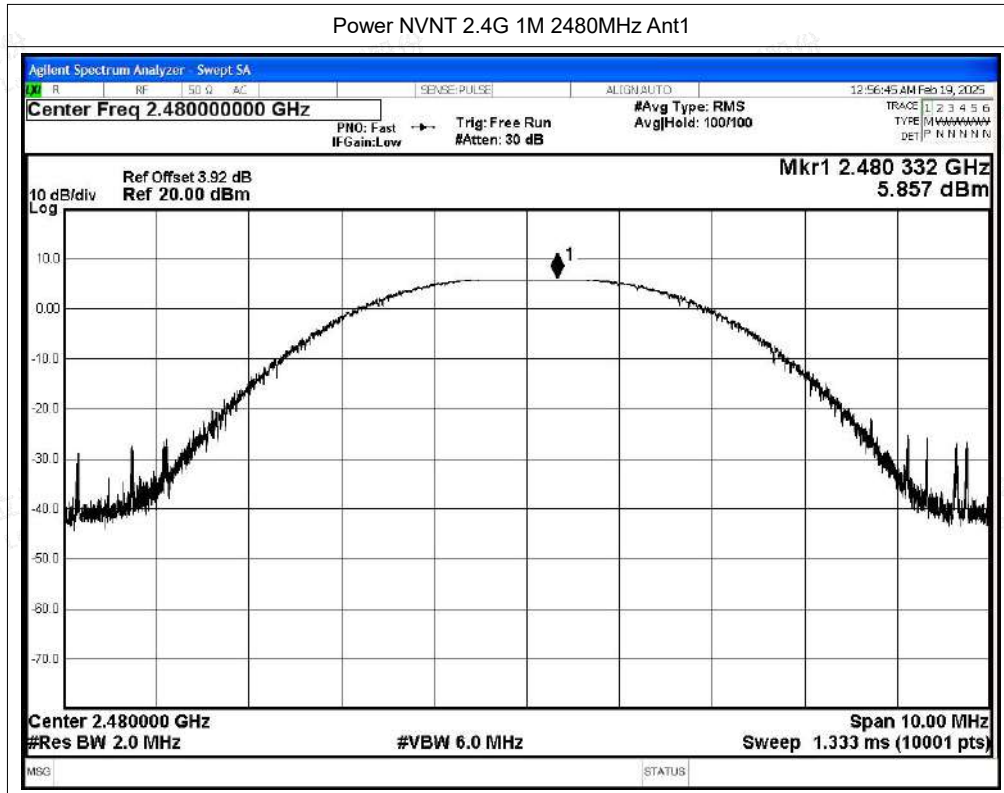


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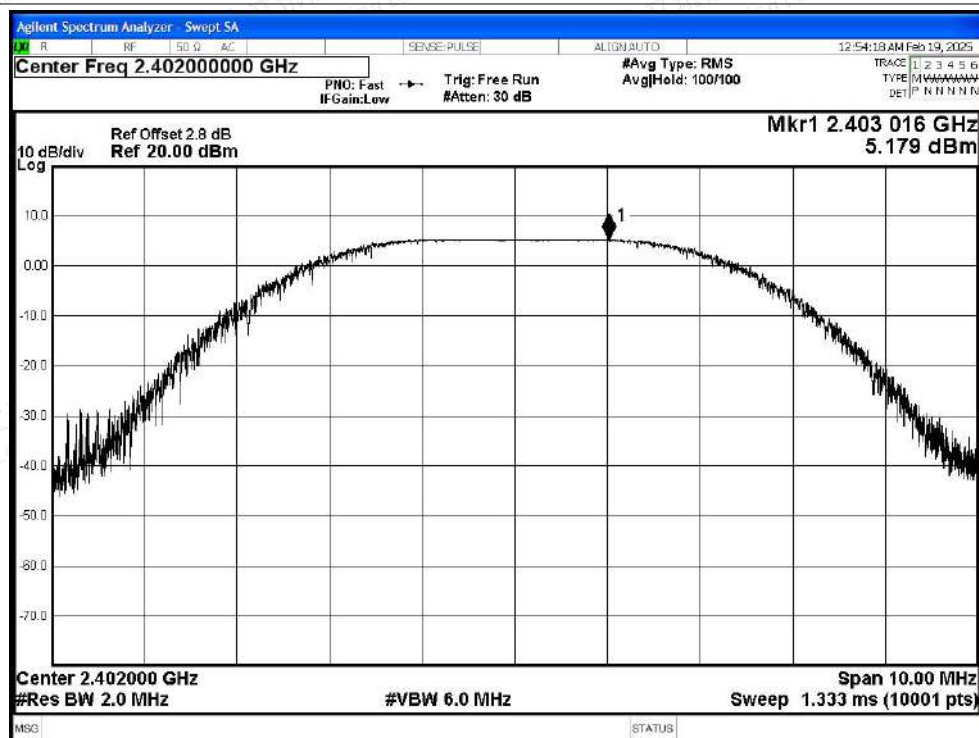
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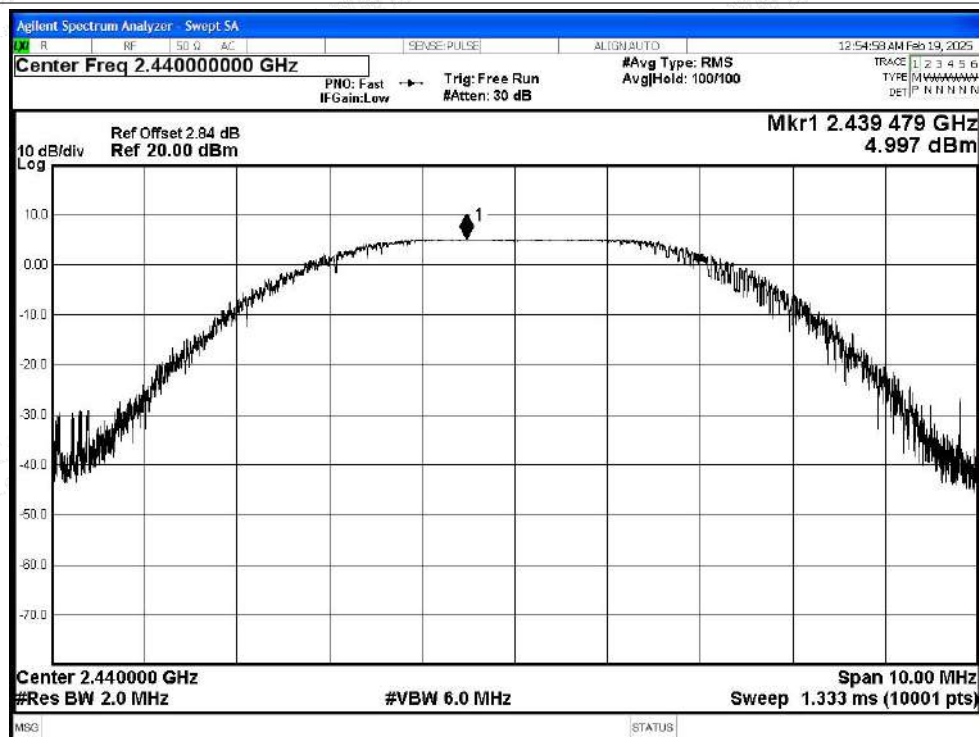


## Test Graphs

Power NVNT 2.4G 2M 2402MHz Ant1



Power NVNT 2.4G 2M 2440MHz Ant1

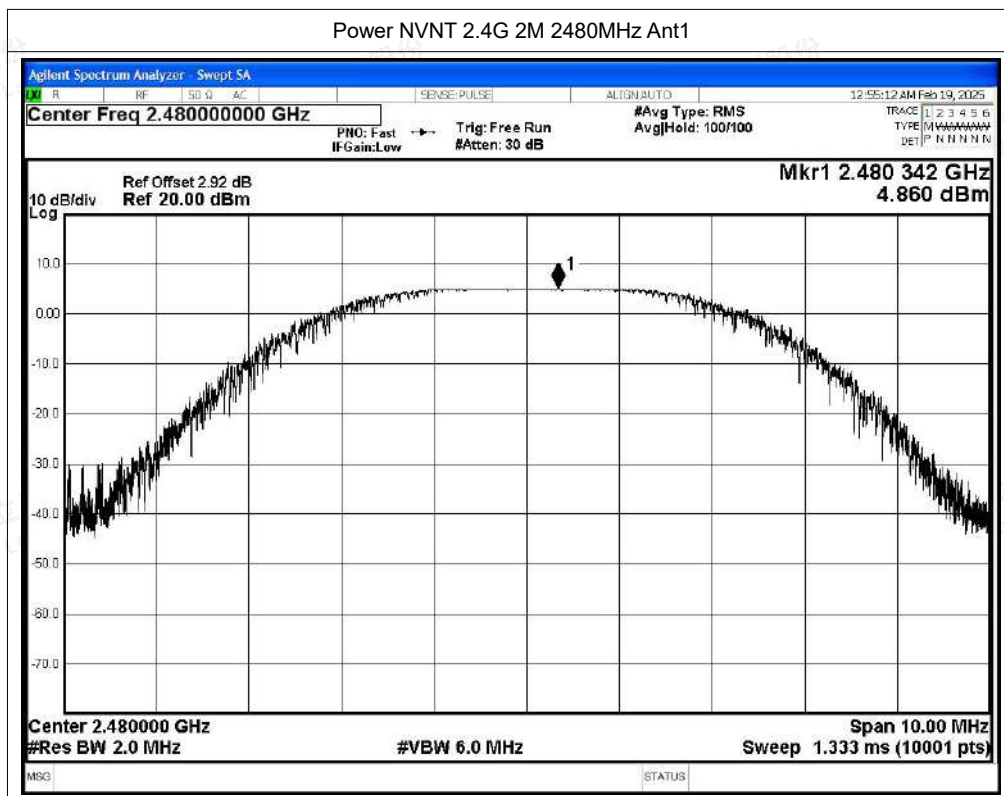


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### A.3 Maximum Power Spectral Density Level

| Condition | Mode    | Frequency (MHz) | Antenna | Conducted PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|-----------|---------|-----------------|---------|--------------------------|------------------|---------|
| NVNT      | 2.4G 1M | 2402            | Ant1    | -17.17                   | 8                | Pass    |
| NVNT      | 2.4G 1M | 2440            | Ant1    | -17.03                   | 8                | Pass    |
| NVNT      | 2.4G 1M | 2480            | Ant1    | -17.43                   | 8                | Pass    |
| NVNT      | 2.4G 2M | 2402            | Ant1    | -13.59                   | 8                | Pass    |
| NVNT      | 2.4G 2M | 2440            | Ant1    | -18.95                   | 8                | Pass    |
| NVNT      | 2.4G 2M | 2480            | Ant1    | -18.79                   | 8                | Pass    |



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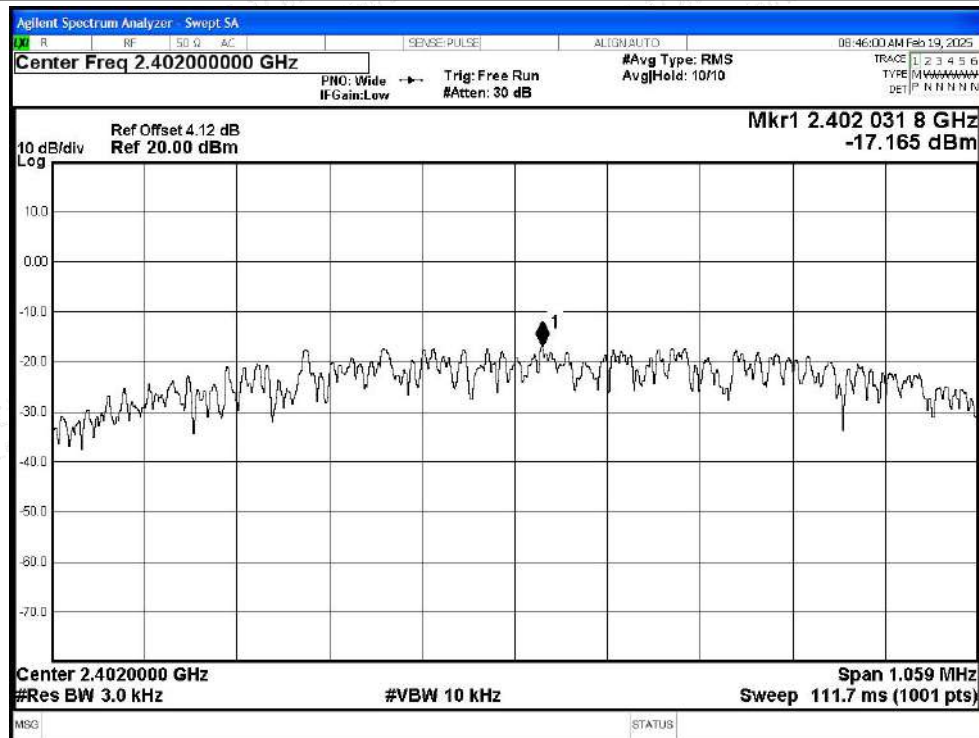
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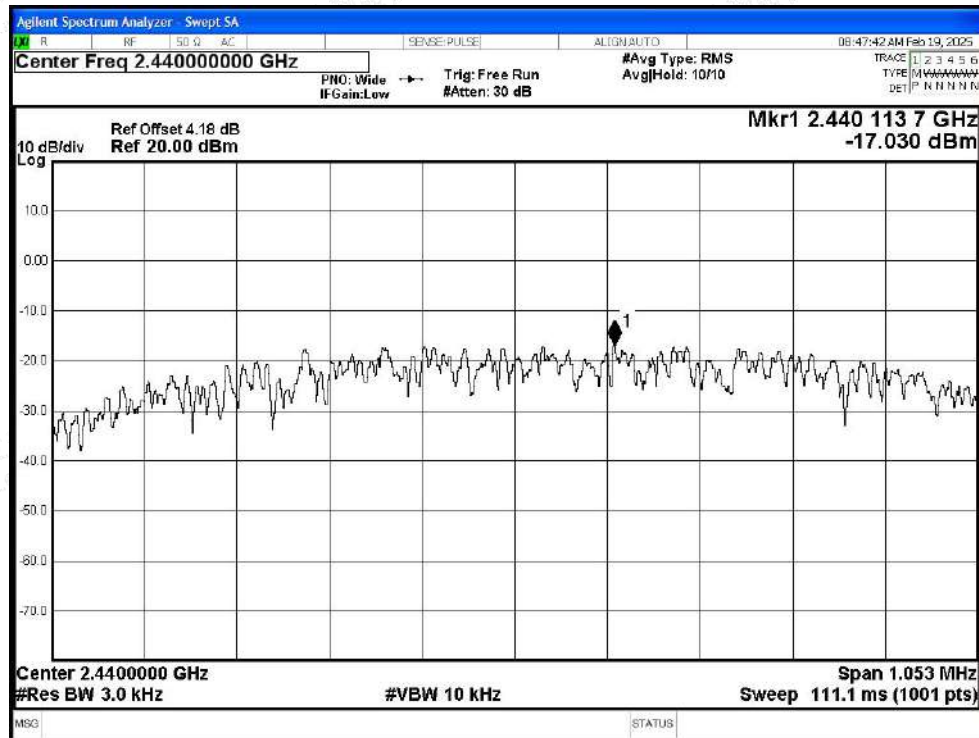


## Test Graphs

PSD NVNT 2.4G 1M 2402MHz Ant1



PSD NVNT 2.4G 1M 2440MHz Ant1

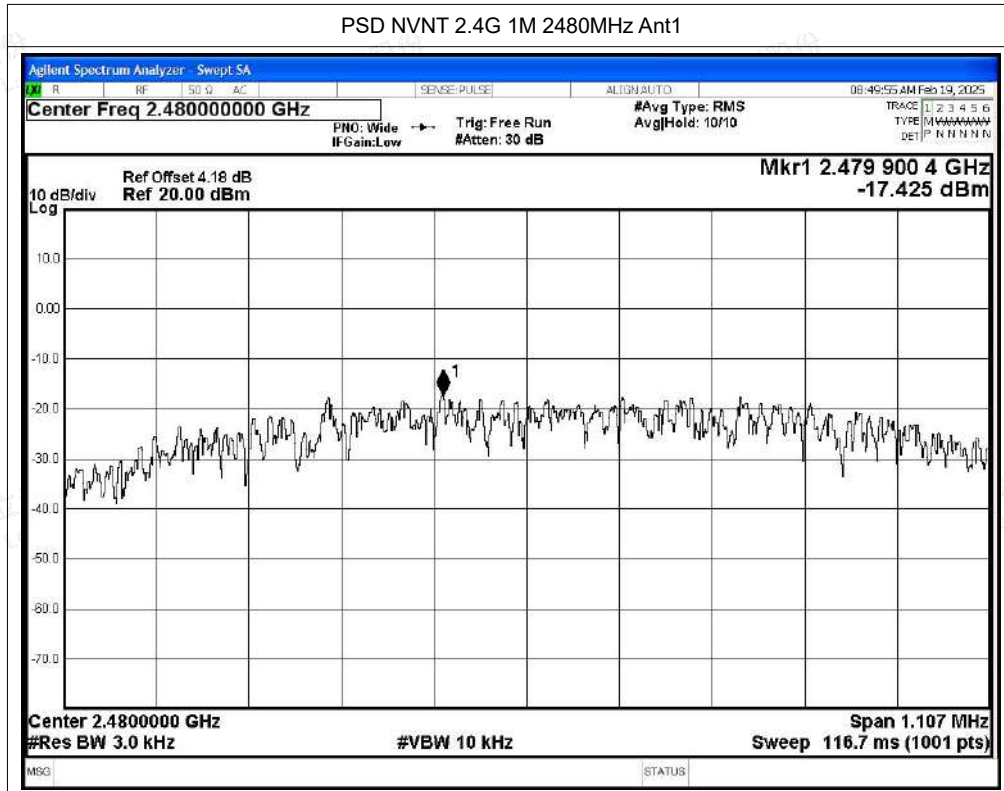


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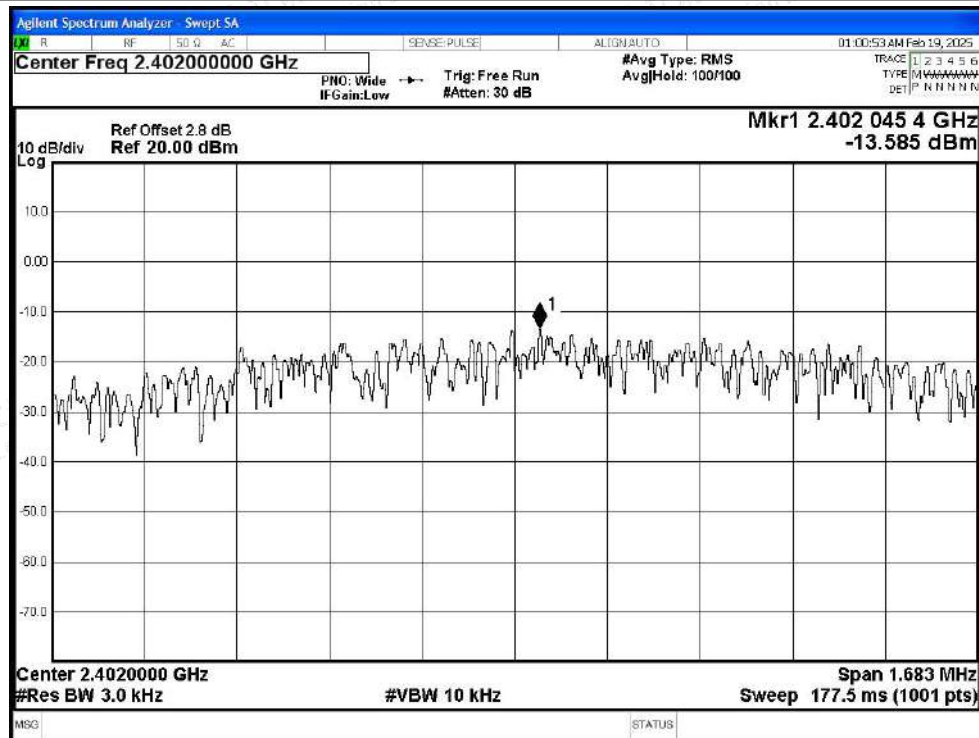
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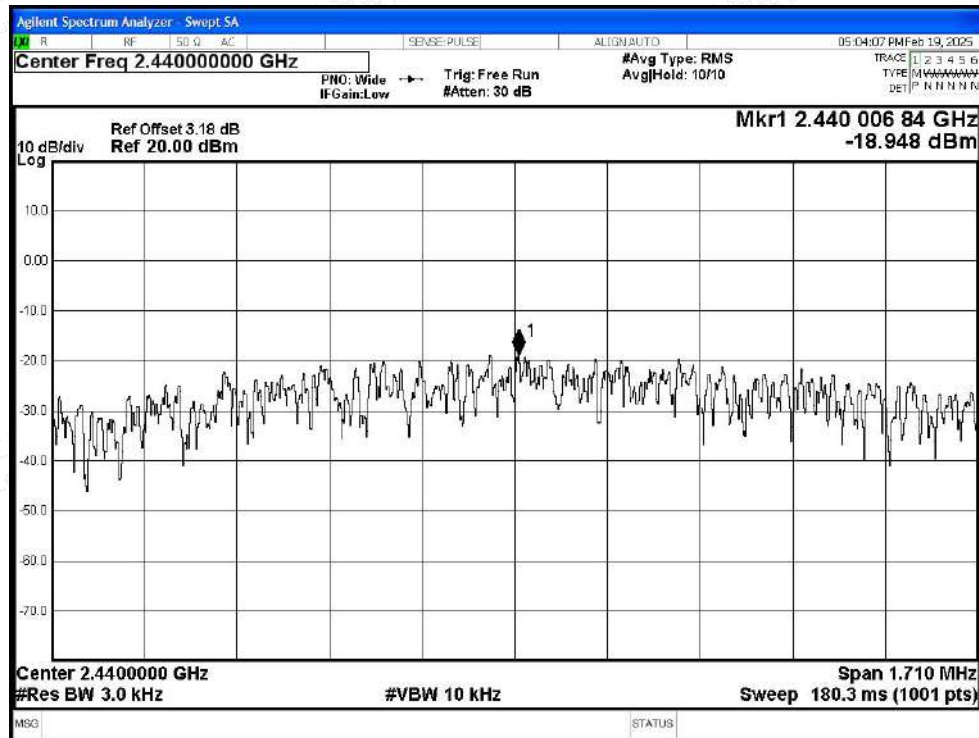


## Test Graphs

PSD NVNT 2.4G 2M 2402MHz Ant1



PSD NVNT 2.4G 2M 2440MHz Ant1

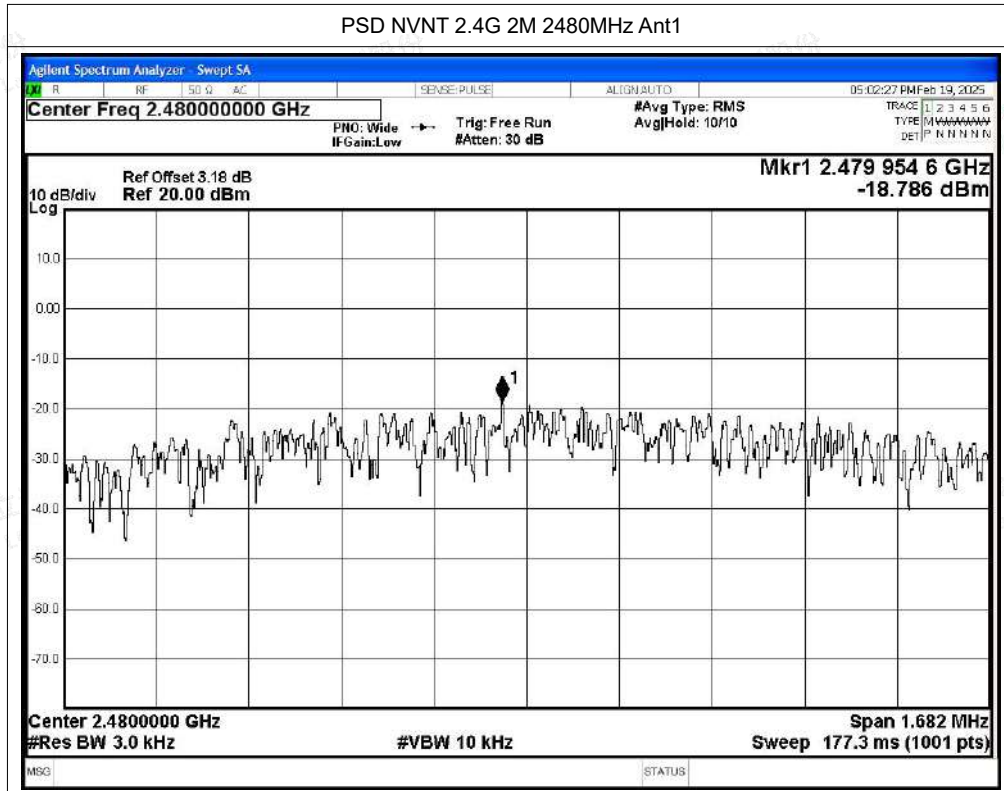


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## A.4 Band Edge

| Condition | Mode    | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|---------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | 2.4G 1M | 2402            | Ant1    | -37.19          | -20         | Pass    |
| NVNT      | 2.4G 1M | 2480            | Ant1    | -43.75          | -20         | Pass    |
| NVNT      | 2.4G 2M | 2402            | Ant1    | -32.17          | -20         | Pass    |
| NVNT      | 2.4G 2M | 2480            | Ant1    | -44.1           | -20         | Pass    |



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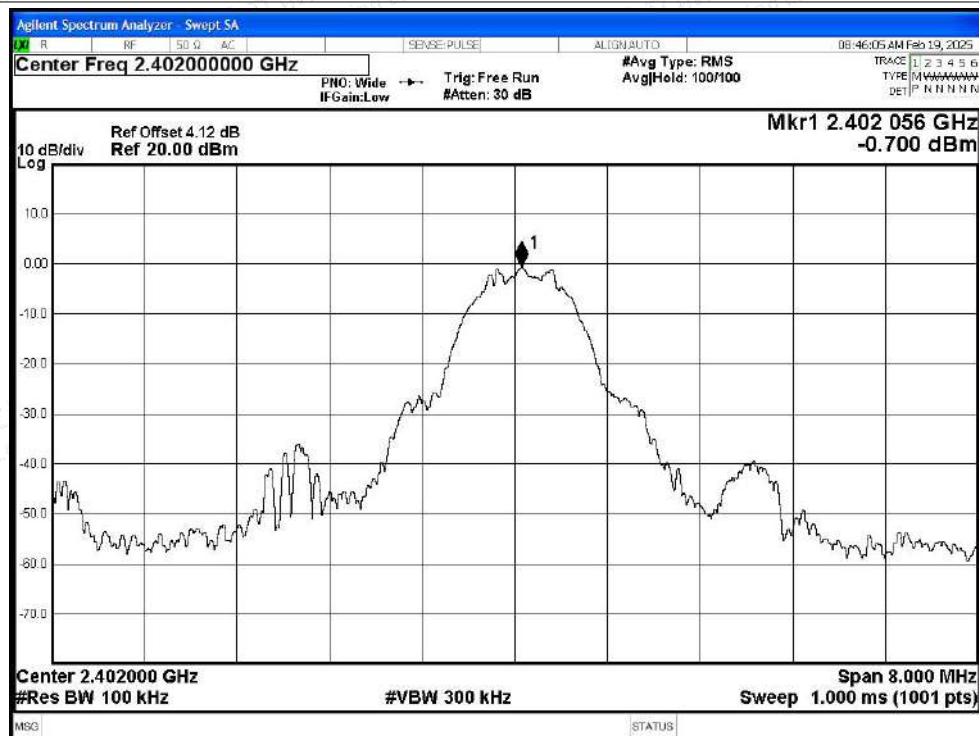
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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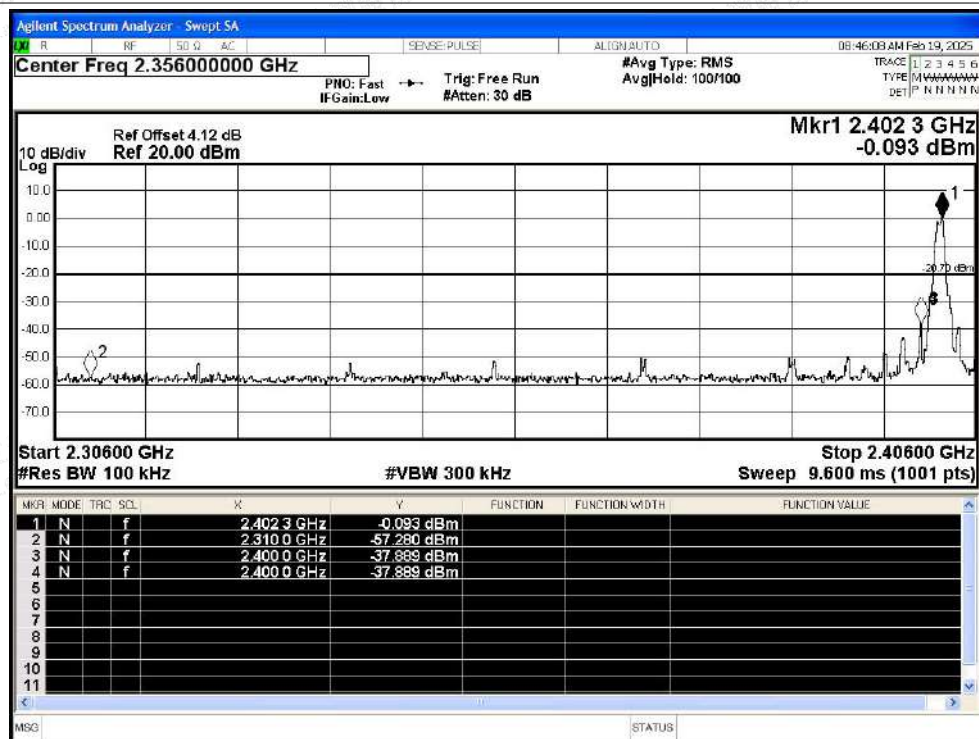


## Test Graphs

## Band Edge NVNT 2.4G 1M 2402MHz Ant1 Ref



## Band Edge NVNT 2.4G 1M 2402MHz Ant1 Emission



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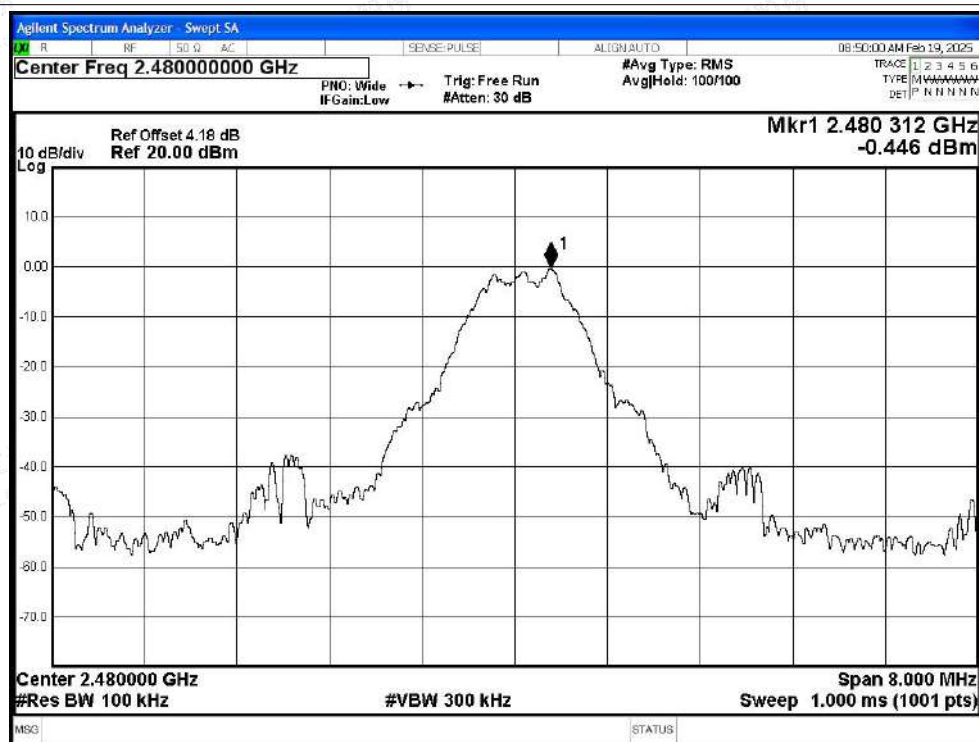
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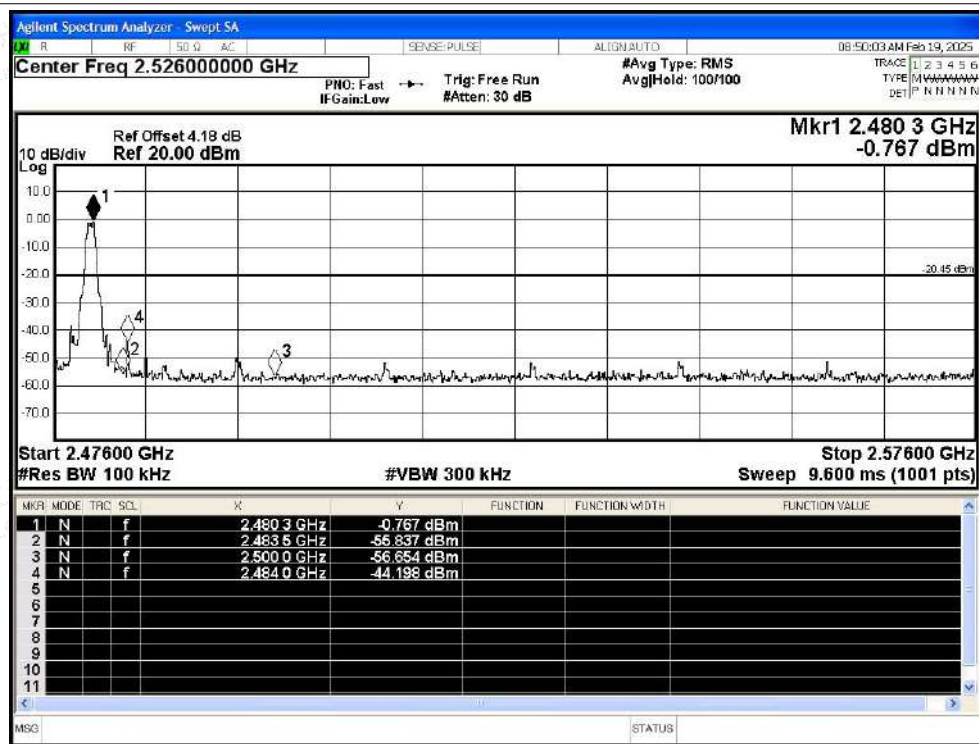
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## Band Edge NVNT 2.4G 1M 2480MHz Ant1 Ref



## Band Edge NVNT 2.4G 1M 2480MHz Ant1 Emission



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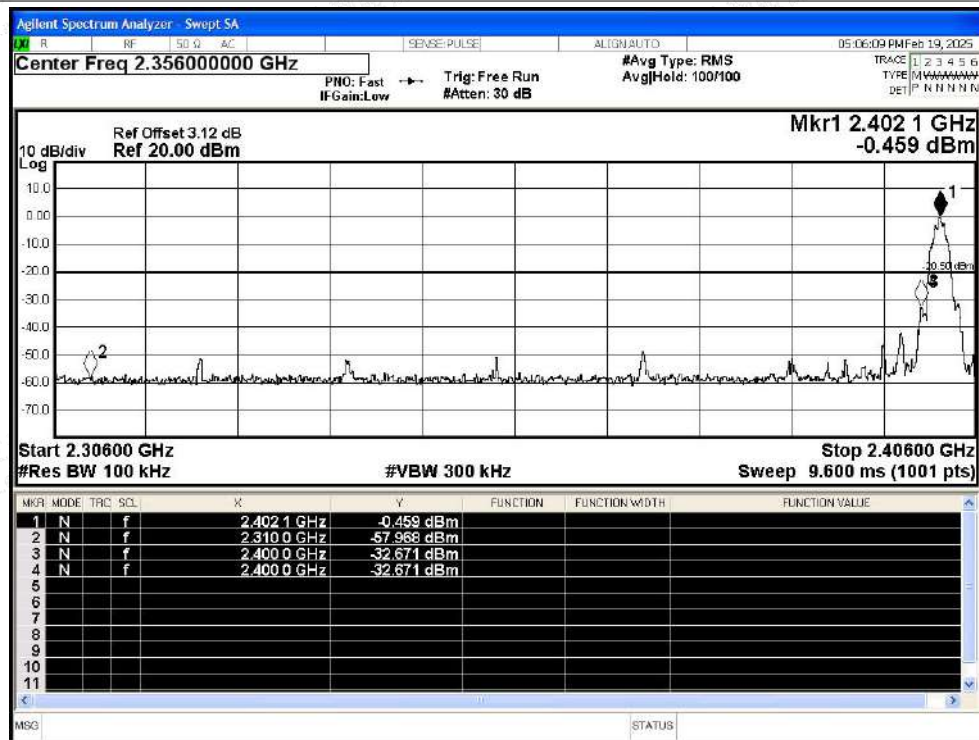


## Test Graphs

## Band Edge NVNT 2.4G 2M 2402MHz Ant1 Ref



## Band Edge NVNT 2.4G 2M 2402MHz Ant1 Emission



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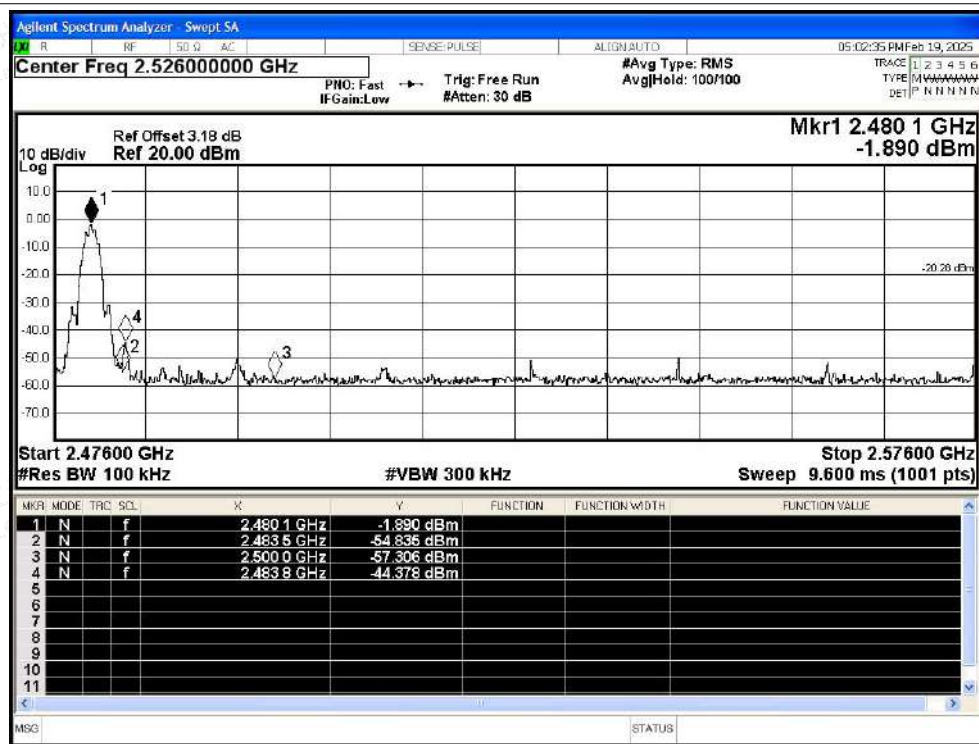
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## Band Edge NVNT 2.4G 2M 2480MHz Ant1 Ref



## Band Edge NVNT 2.4G 2M 2480MHz Ant1 Emission



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## A.5 Conducted RF Spurious Emission

| Condition | Mode    | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|---------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | 2.4G 1M | 2402            | Ant1    | -45.88          | -20         | Pass    |
| NVNT      | 2.4G 1M | 2440            | Ant1    | -51.68          | -20         | Pass    |
| NVNT      | 2.4G 1M | 2480            | Ant1    | -50.62          | -20         | Pass    |
| NVNT      | 2.4G 2M | 2402            | Ant1    | -49.04          | -20         | Pass    |
| NVNT      | 2.4G 2M | 2440            | Ant1    | -50.13          | -20         | Pass    |
| NVNT      | 2.4G 2M | 2480            | Ant1    | -48.35          | -20         | Pass    |



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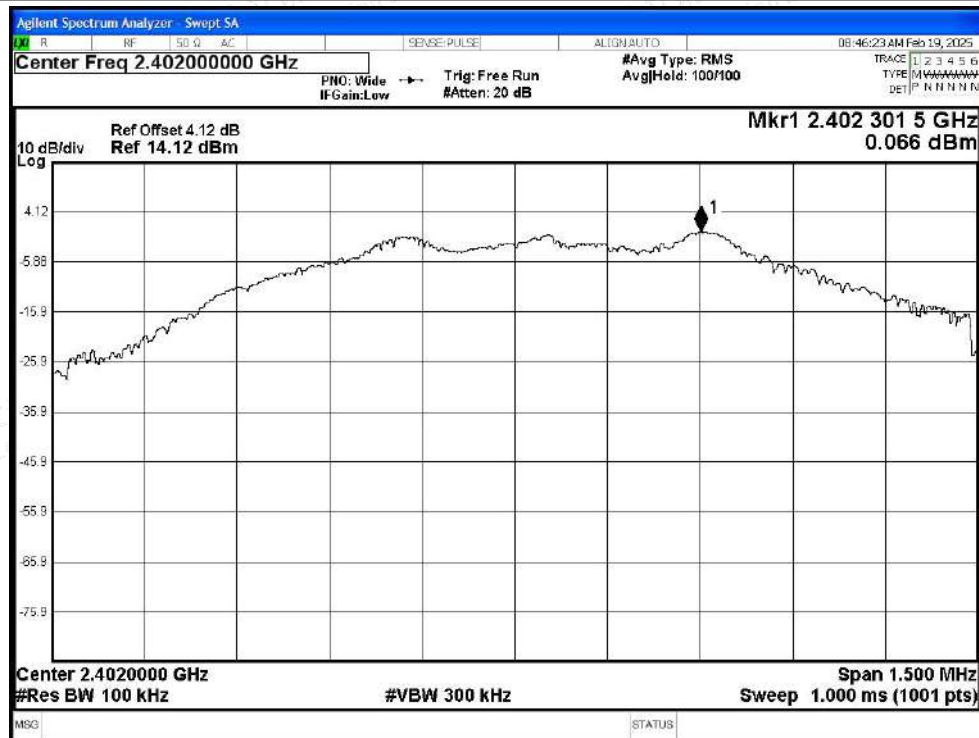
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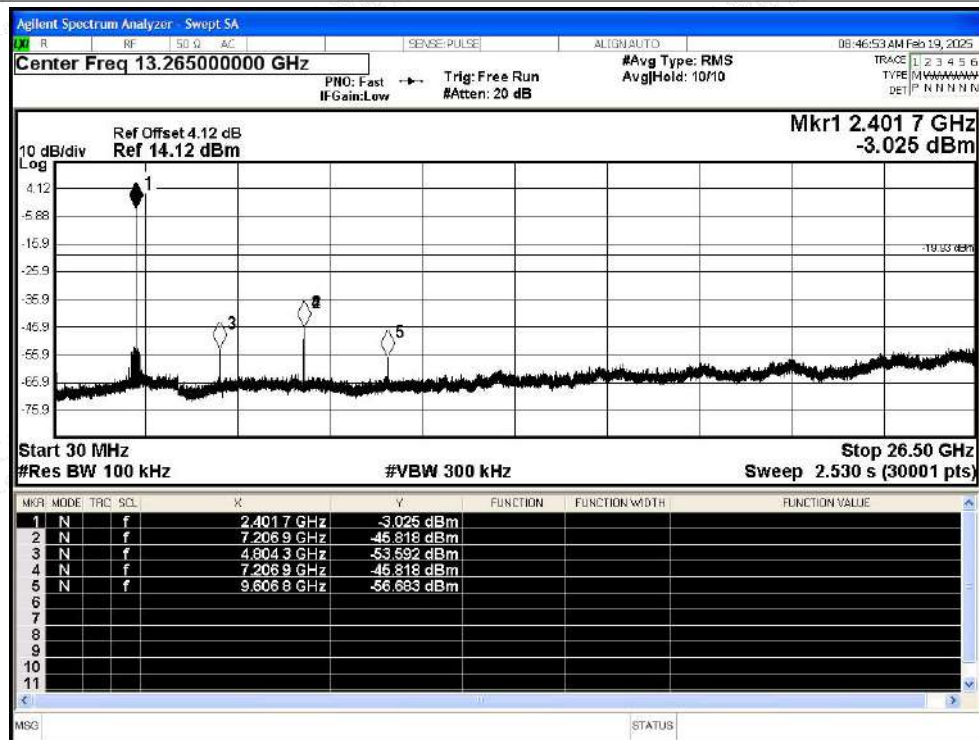


## Test Graphs

## Tx. Spurious NVNT 2.4G 1M 2402MHz Ant1 Ref



## Tx. Spurious NVNT 2.4G 1M 2402MHz Ant1 Emission



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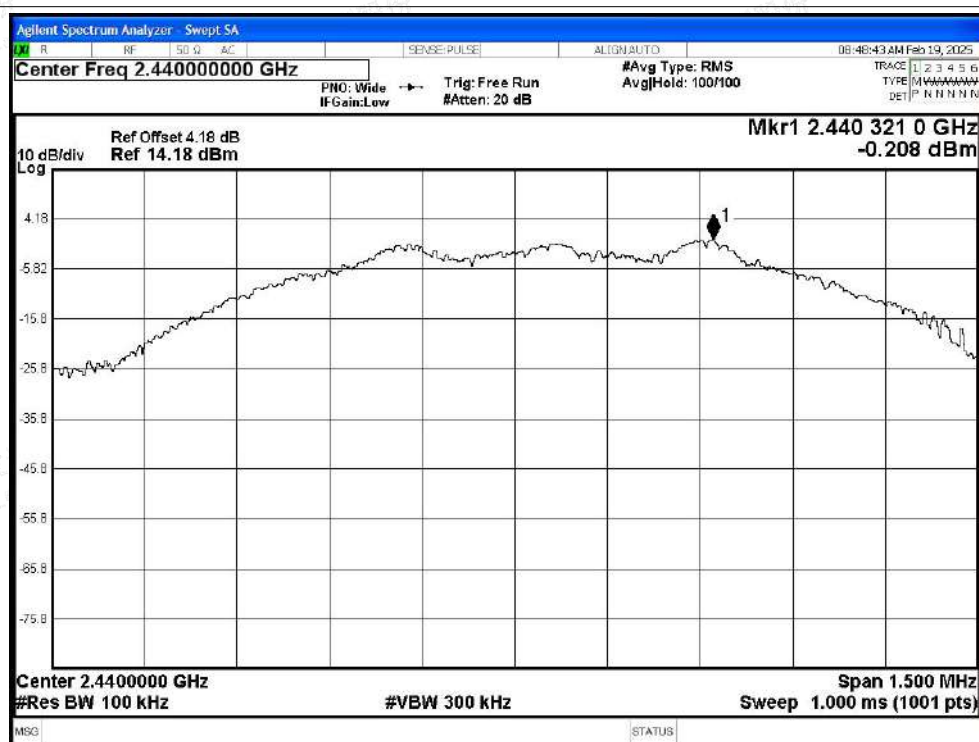
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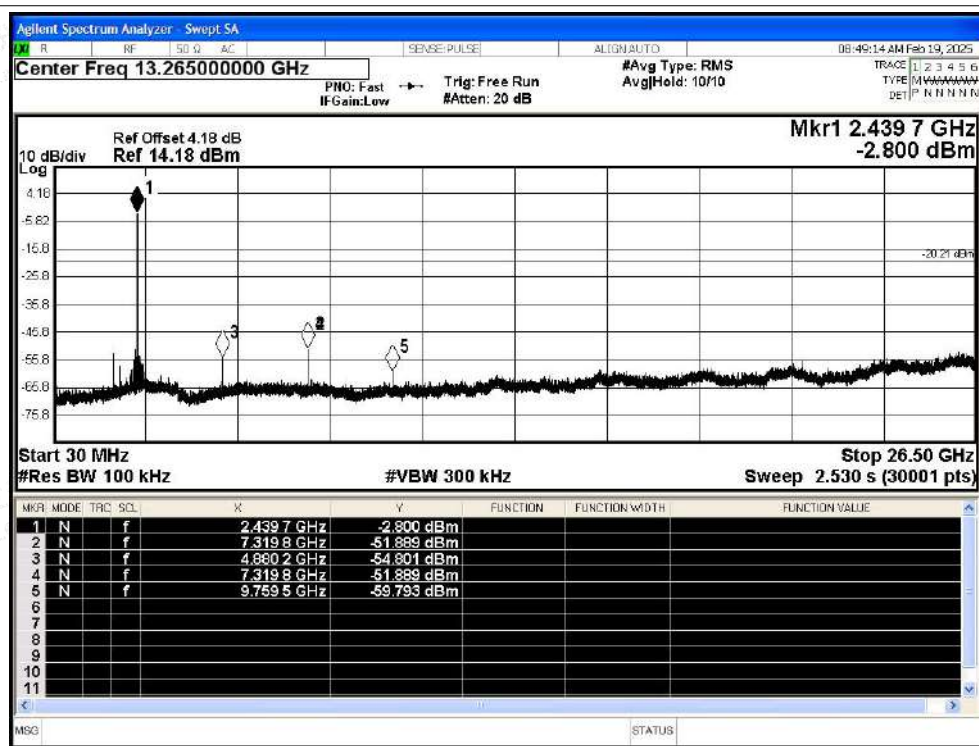
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## Tx. Spurious NVNT 2.4G 1M 2440MHz Ant1 Ref



## Tx. Spurious NVNT 2.4G 1M 2440MHz Ant1 Emission



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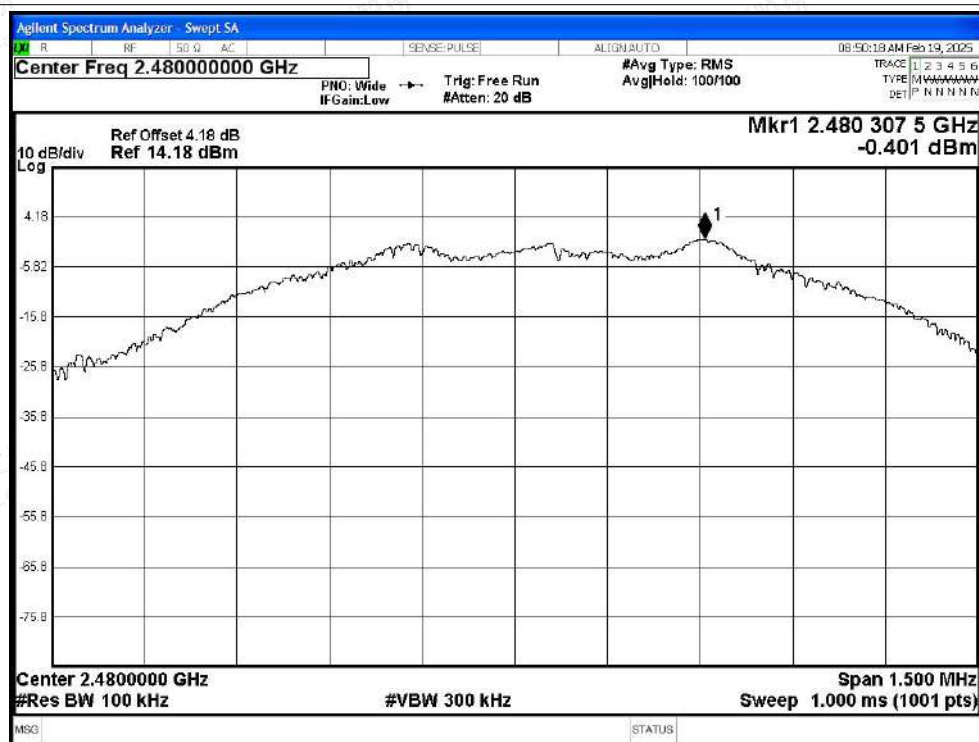
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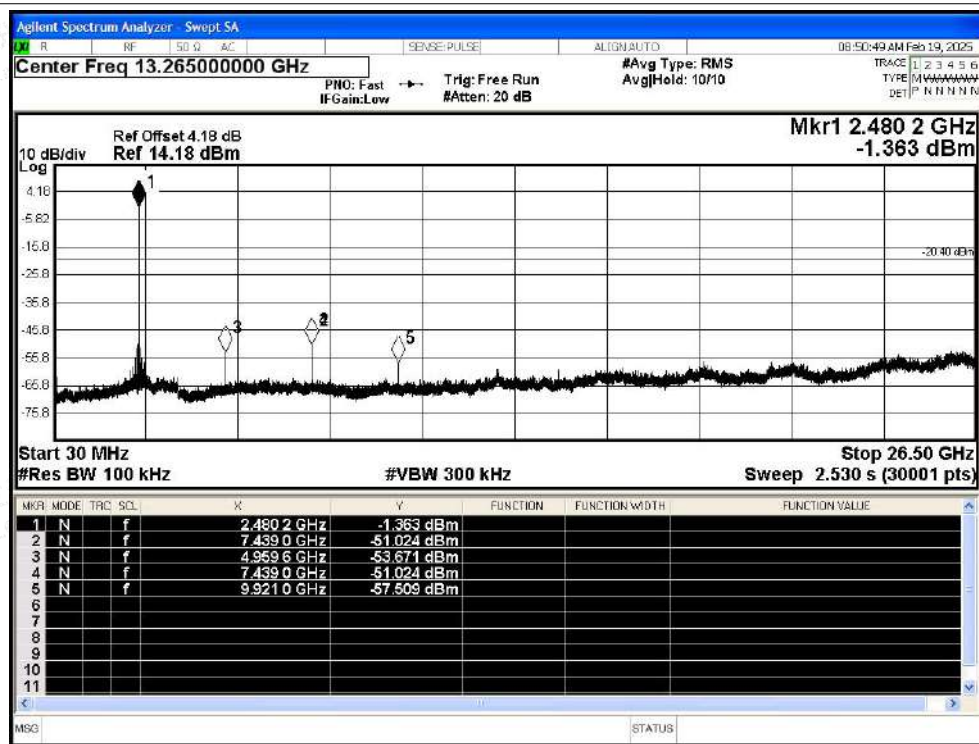
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## Tx. Spurious NVNT 2.4G 1M 2480MHz Ant1 Ref



## Tx. Spurious NVNT 2.4G 1M 2480MHz Ant1 Emission



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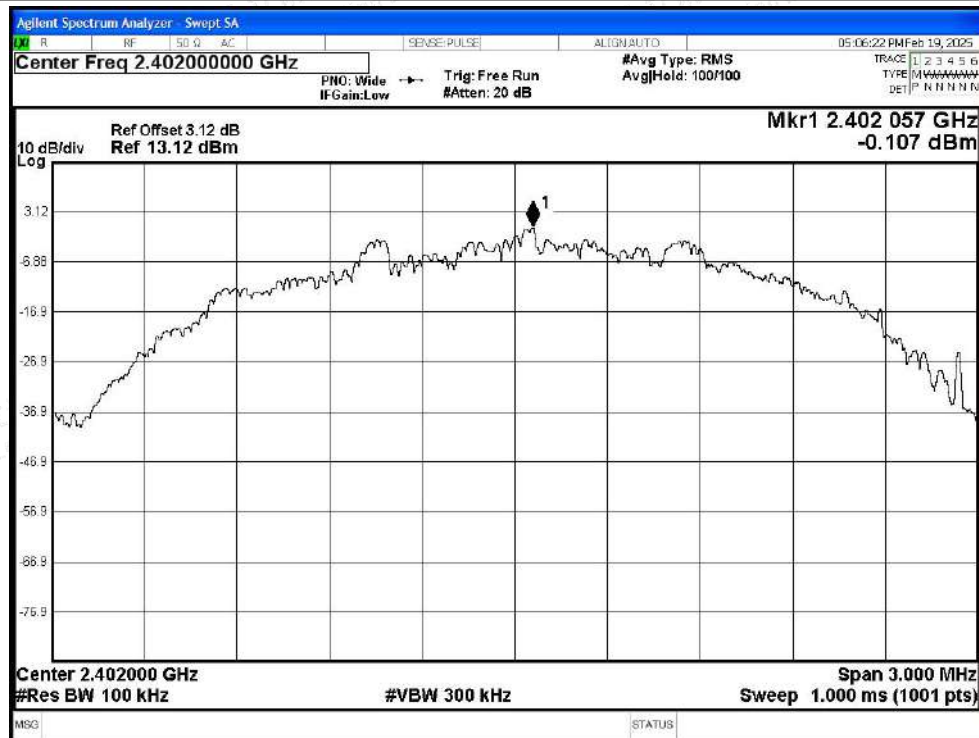
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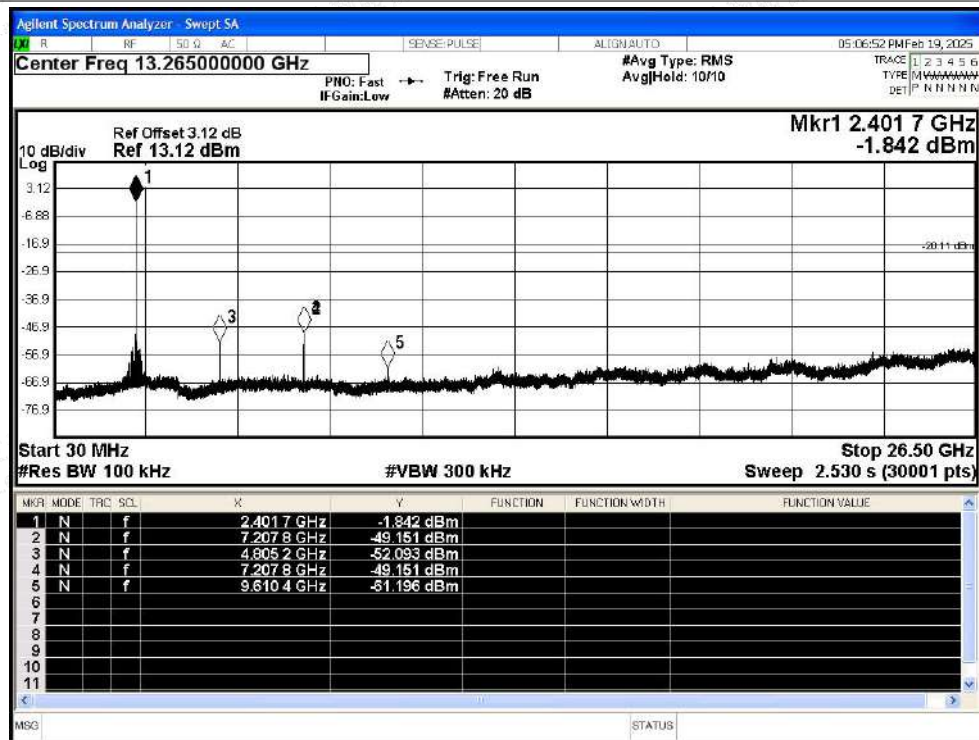


## Test Graphs

Tx. Spurious NVNT 2.4G 2M 2402MHz Ant1 Ref



Tx. Spurious NVNT 2.4G 2M 2402MHz Ant1 Emission



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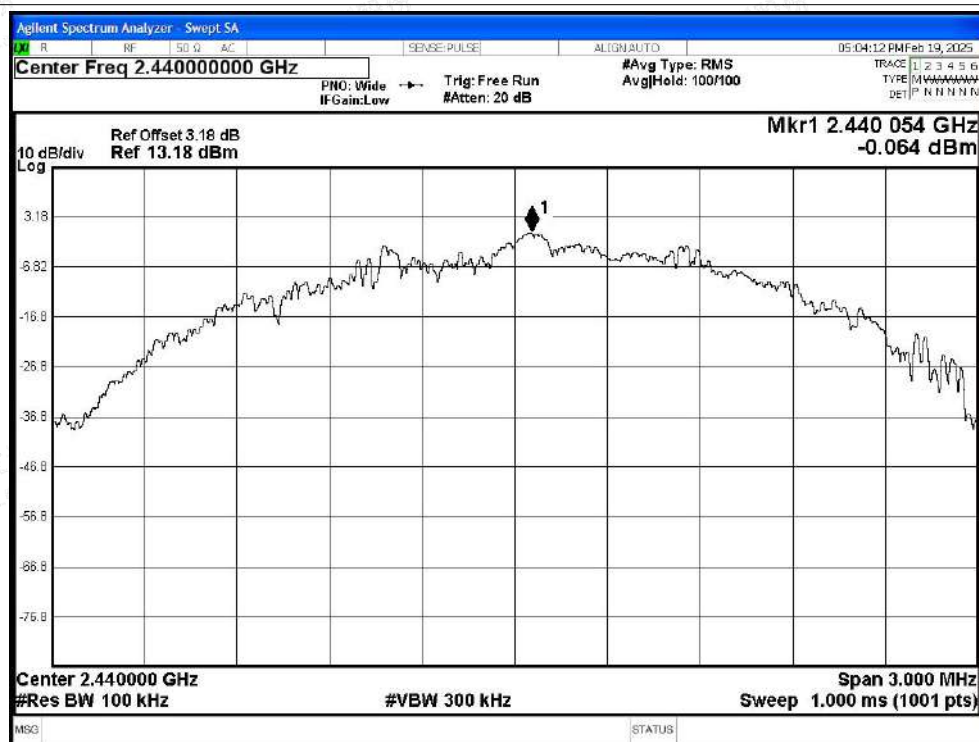
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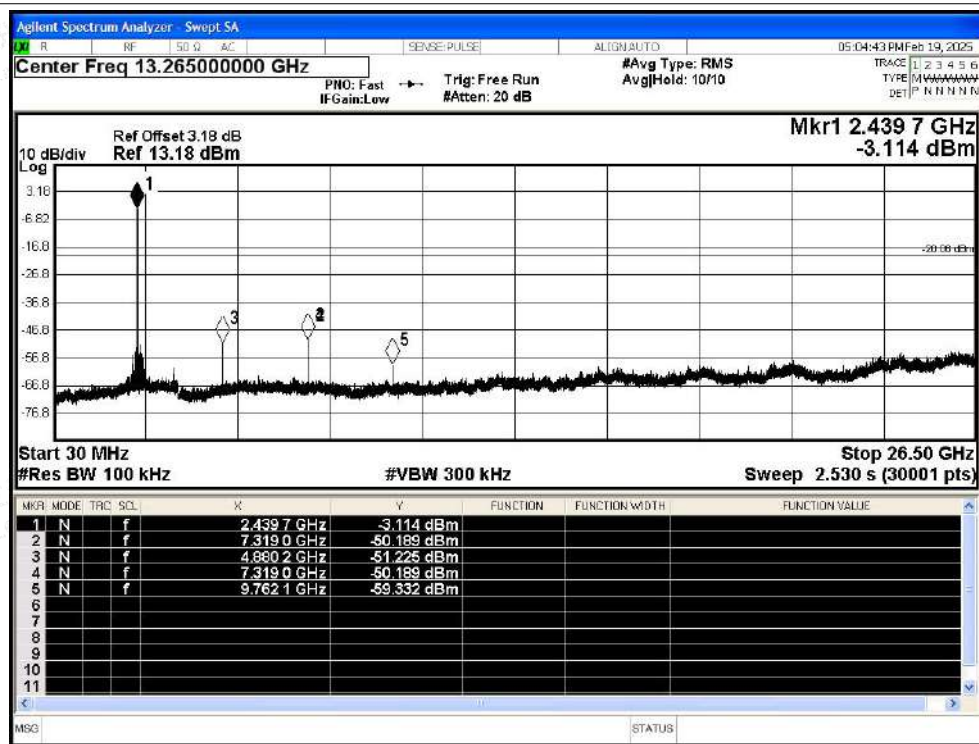
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## Tx. Spurious NVNT 2.4G 2M 2440MHz Ant1 Ref



## Tx. Spurious NVNT 2.4G 2M 2440MHz Ant1 Emission



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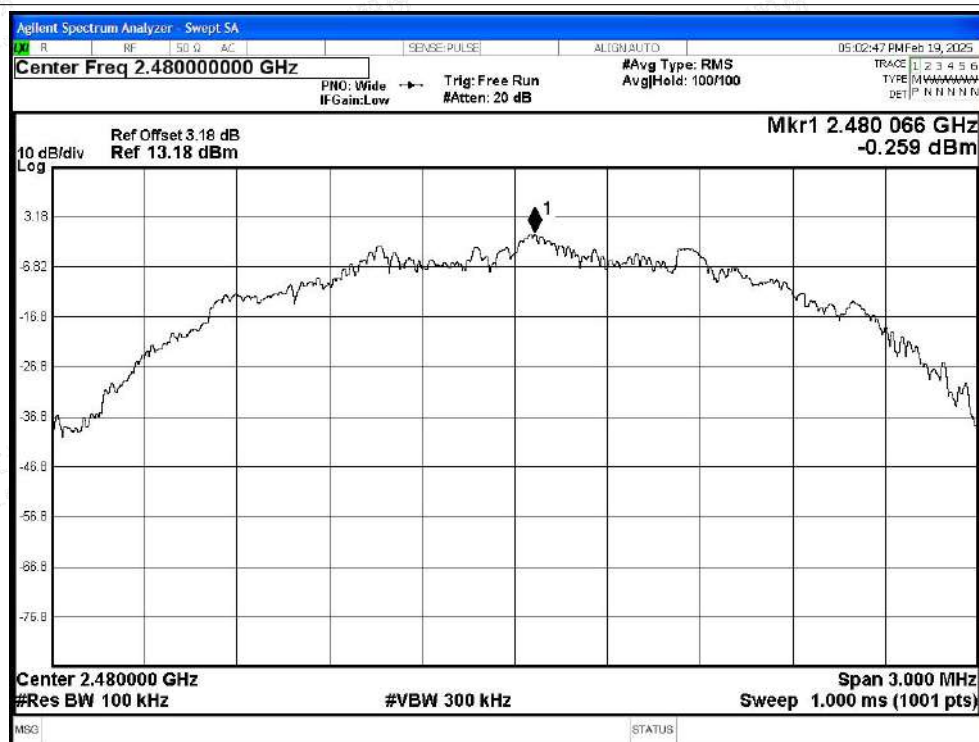
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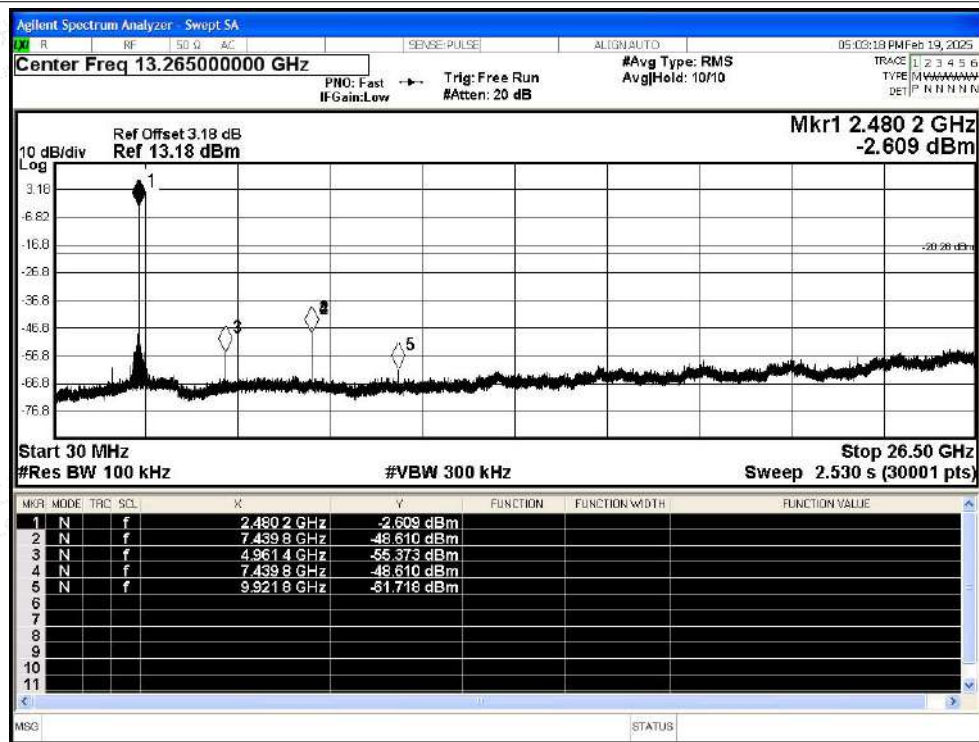
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## Tx. Spurious NVNT 2.4G 2M 2480MHz Ant1 Ref



## Tx. Spurious NVNT 2.4G 2M 2480MHz Ant1 Emission



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## A.6 Duty Cycle

| Condition | Mode    | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|---------|-----------------|---------|----------------|------------------------|-----------|
| NVNT      | 2.4G 1M | 2402            | Ant1    | 65.78          | 1.82                   | 2.45      |
| NVNT      | 2.4G 1M | 2440            | Ant1    | 64.55          | 1.9                    | 2.46      |
| NVNT      | 2.4G 1M | 2480            | Ant1    | 64.6           | 1.9                    | 2.46      |
| NVNT      | 2.4G 2M | 2402            | Ant1    | 33.49          | 4.75                   | 4.82      |
| NVNT      | 2.4G 2M | 2440            | Ant1    | 33.41          | 4.76                   | 4.83      |
| NVNT      | 2.4G 2M | 2480            | Ant1    | 33.49          | 4.75                   | 4.82      |



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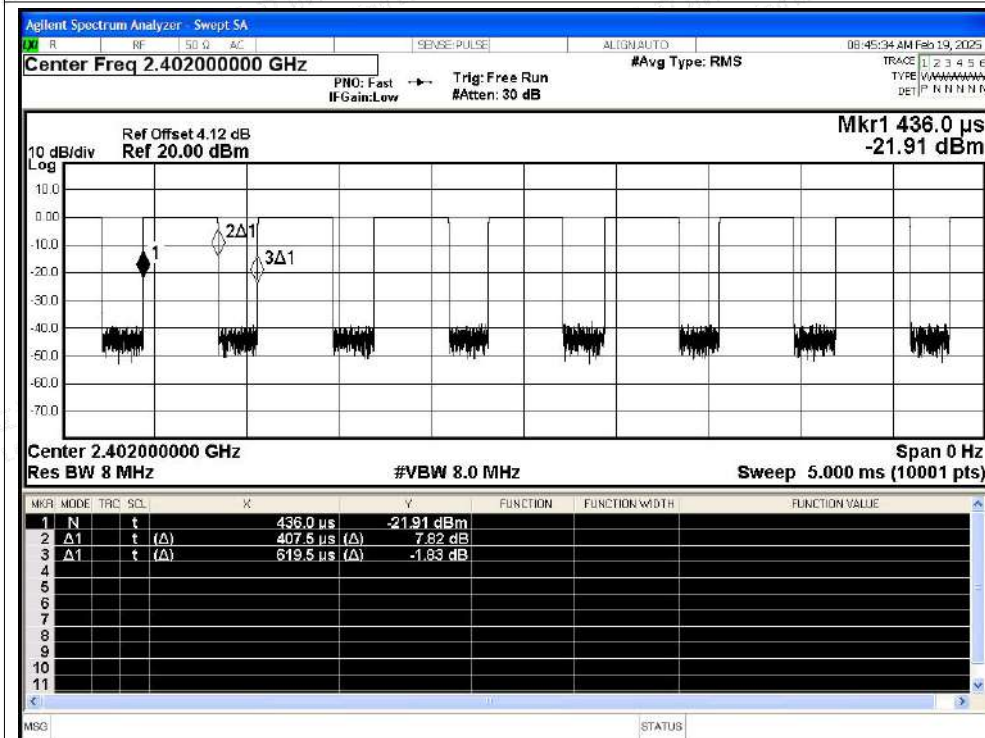
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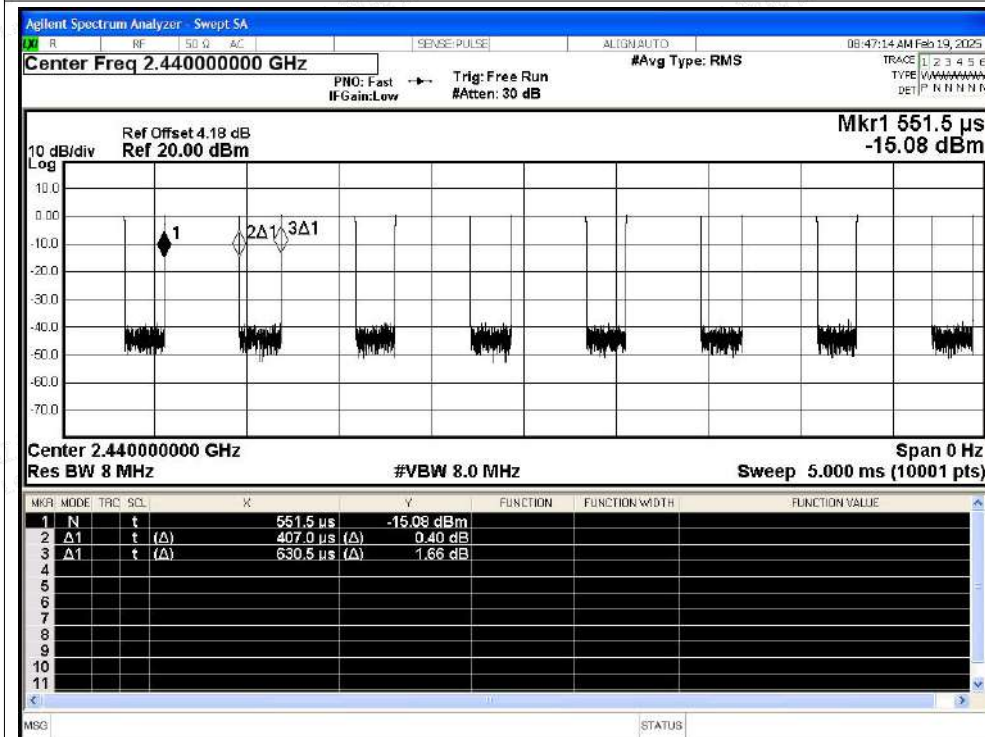


## Test Graphs

## Duty Cycle NVNT 2.4G 1M 2402MHz Ant1



## Duty Cycle NVNT 2.4G 1M 2440MHz Ant1

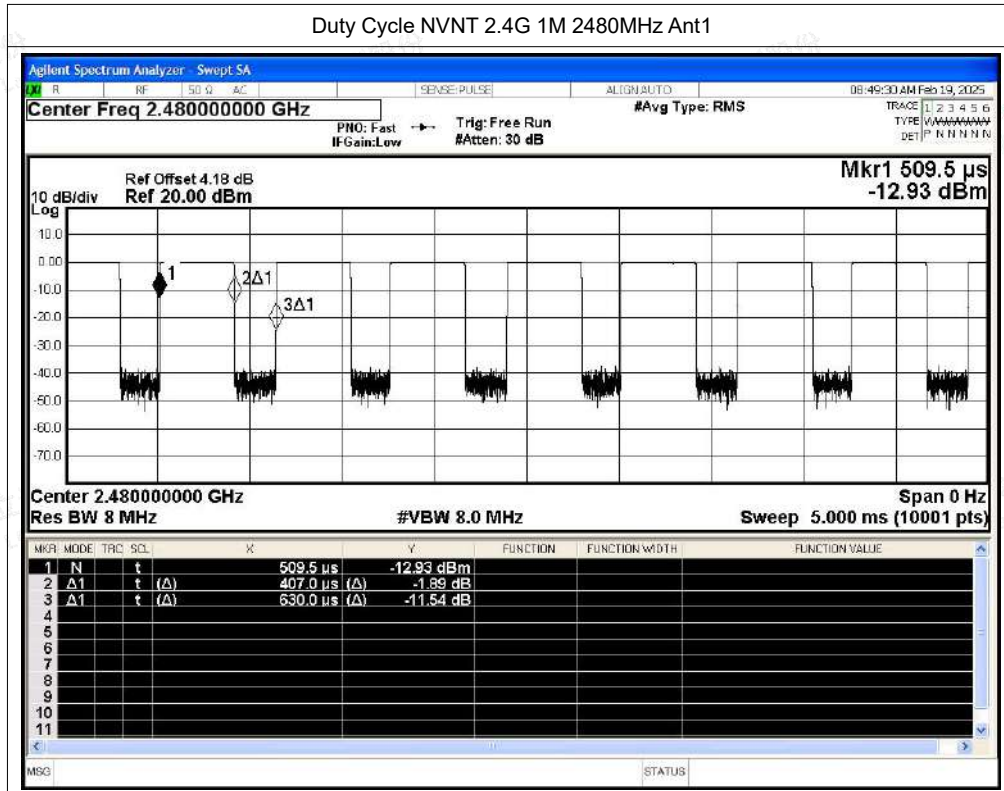


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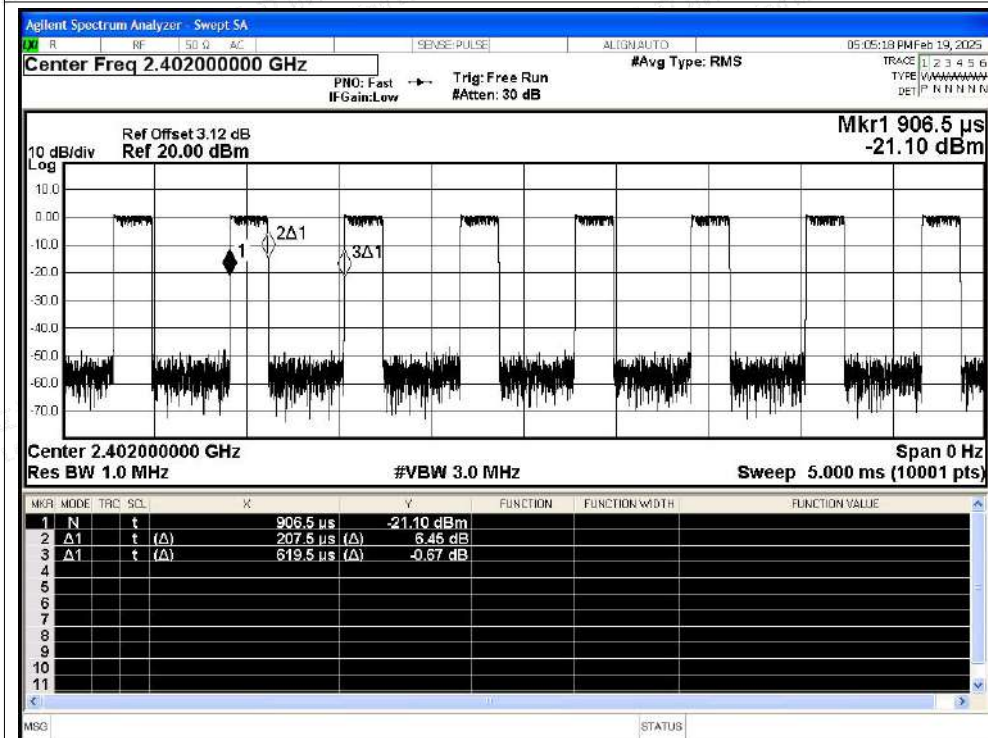
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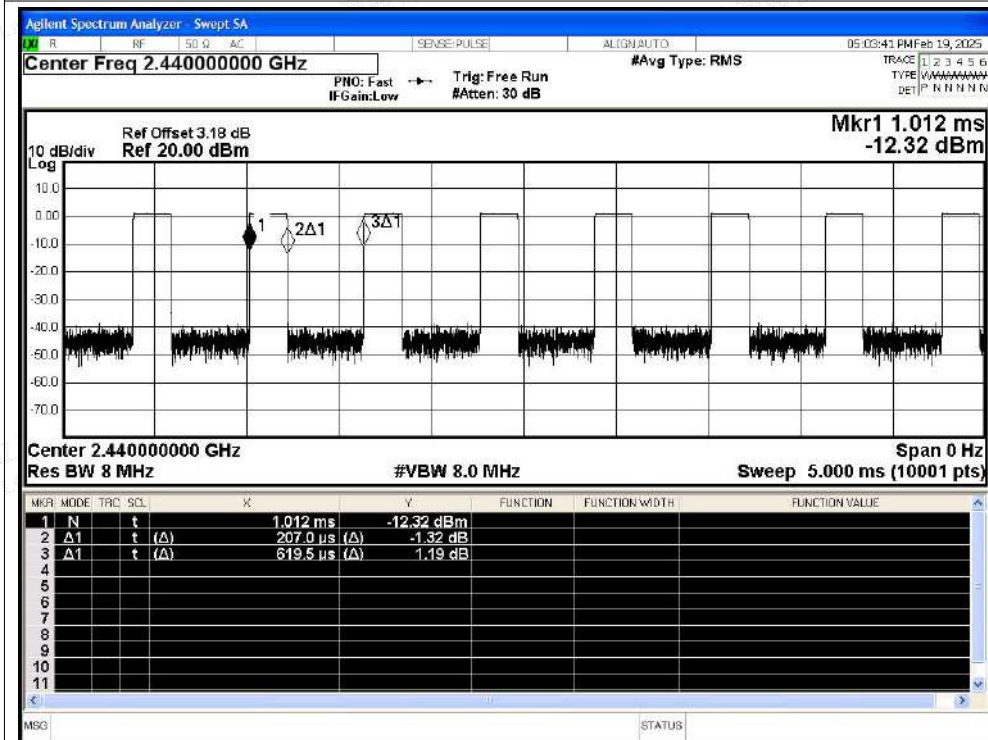


## Test Graphs

## Duty Cycle NVNT 2.4G 2M 2402MHz Ant1



## Duty Cycle NVNT 2.4G 2M 2440MHz Ant1

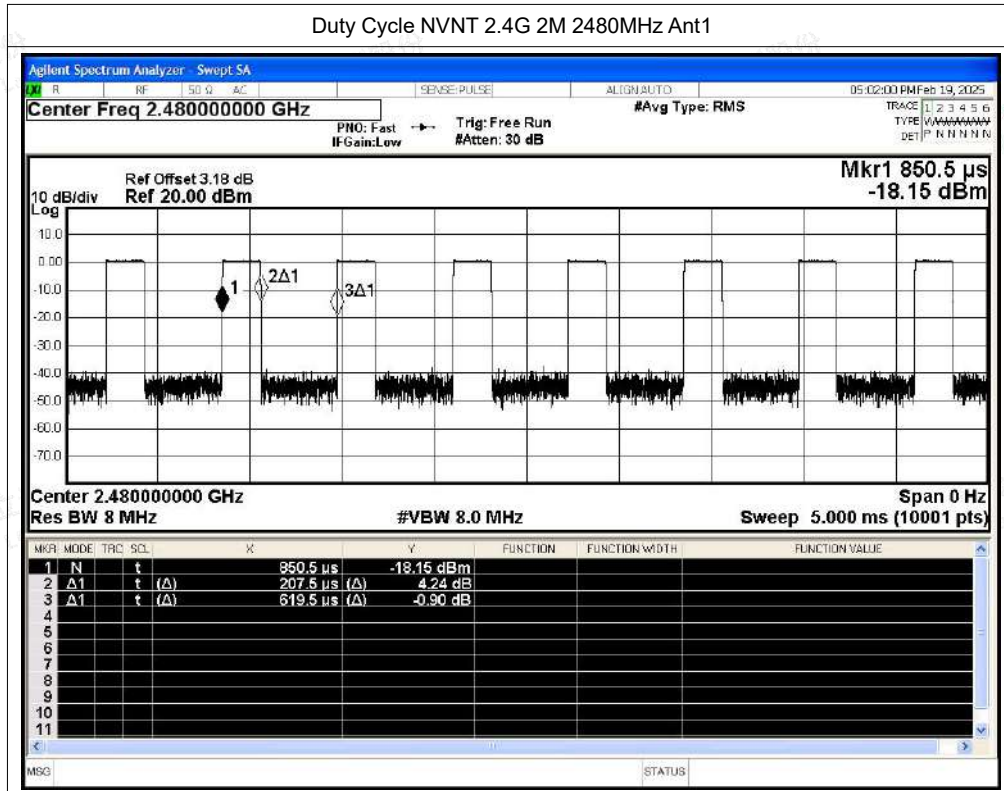


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## A.7 Restrict Band

| Condition | Mode    | Frequ<br>ency<br>(MHz) | Antenna | Spur<br>Freq<br>(MHz) | Power<br>(dBm) | Gain<br>(dBi) | Duty<br>Factor<br>(dB) | E<br>(dBuV/m) | Detector | Limit<br>(dBuV/m) | Verdict |
|-----------|---------|------------------------|---------|-----------------------|----------------|---------------|------------------------|---------------|----------|-------------------|---------|
| NVNT      | 2.4G 1M | 2402                   | Ant1    | 2310                  | -48.85         | 2             | -                      | 48.41         | Peak     | 74                | Pass    |
| NVNT      | 2.4G 1M | 2402                   | Ant1    | 2310                  | -56.72         | 2             | 1.82                   | 42.36         | Average  | 54                | Pass    |
| NVNT      | 2.4G 1M | 2402                   | Ant1    | 2337.84               | -40.42         | 2             | -                      | 56.84         | Peak     | 74                | Pass    |
| NVNT      | 2.4G 1M | 2402                   | Ant1    | 2386.032              | -51.67         | 2             | 1.82                   | 47.41         | Average  | 54                | Pass    |
| NVNT      | 2.4G 1M | 2402                   | Ant1    | 2390                  | -47.55         | 2             | -                      | 49.71         | Peak     | 74                | Pass    |
| NVNT      | 2.4G 1M | 2402                   | Ant1    | 2390                  | -56.07         | 2             | 1.82                   | 43.01         | Average  | 54                | Pass    |
| NVNT      | 2.4G 1M | 2480                   | Ant1    | 2483.5                | -38.66         | 2             | -                      | 58.6          | Peak     | 74                | Pass    |
| NVNT      | 2.4G 1M | 2480                   | Ant1    | 2483.5                | -53.19         | 2             | 1.9                    | 45.97         | Average  | 54                | Pass    |
| NVNT      | 2.4G 1M | 2480                   | Ant1    | 2484.112              | -35.84         | 2             | -                      | 61.42         | Peak     | 74                | Pass    |
| NVNT      | 2.4G 1M | 2480                   | Ant1    | 2496.136              | -52.07         | 2             | 1.9                    | 47.09         | Average  | 54                | Pass    |
| NVNT      | 2.4G 1M | 2480                   | Ant1    | 2500                  | -46.25         | 2             | -                      | 51.01         | Peak     | 74                | Pass    |
| NVNT      | 2.4G 1M | 2480                   | Ant1    | 2500                  | -55.99         | 2             | 1.9                    | 43.17         | Average  | 54                | Pass    |
| NVNT      | 2.4G 2M | 2402                   | Ant1    | 2310                  | -50.04         | 2             | -                      | 47.22         | Peak     | 74                | Pass    |
| NVNT      | 2.4G 2M | 2402                   | Ant1    | 2310                  | -57.6          | 2             | 4.75                   | 44.41         | Average  | 54                | Pass    |
| NVNT      | 2.4G 2M | 2402                   | Ant1    | 2370                  | -42.06         | 2             | -                      | 55.2          | Peak     | 74                | Pass    |
| NVNT      | 2.4G 2M | 2402                   | Ant1    | 2386.032              | -53.76         | 2             | 4.75                   | 48.25         | Average  | 54                | Pass    |
| NVNT      | 2.4G 2M | 2402                   | Ant1    | 2390                  | -45.5          | 2             | -                      | 51.76         | Peak     | 74                | Pass    |
| NVNT      | 2.4G 2M | 2402                   | Ant1    | 2390                  | -57.41         | 2             | 4.75                   | 44.6          | Average  | 54                | Pass    |
| NVNT      | 2.4G 2M | 2480                   | Ant1    | 2483.5                | -43.23         | 2             | -                      | 54.03         | Peak     | 74                | Pass    |
| NVNT      | 2.4G 2M | 2480                   | Ant1    | 2483.5                | -54.98         | 2             | 4.75                   | 47.03         | Average  | 54                | Pass    |
| NVNT      | 2.4G 2M | 2480                   | Ant1    | 2485.96               | -38.49         | 2             | -                      | 58.77         | Peak     | 74                | Pass    |
| NVNT      | 2.4G 2M | 2480                   | Ant1    | 2483.92               | -52.84         | 2             | 4.75                   | 49.17         | Average  | 54                | Pass    |
| NVNT      | 2.4G 2M | 2480                   | Ant1    | 2500                  | -48.68         | 2             | -                      | 48.58         | Peak     | 74                | Pass    |
| NVNT      | 2.4G 2M | 2480                   | Ant1    | 2500                  | -57.02         | 2             | 4.75                   | 44.99         | Average  | 54                | Pass    |



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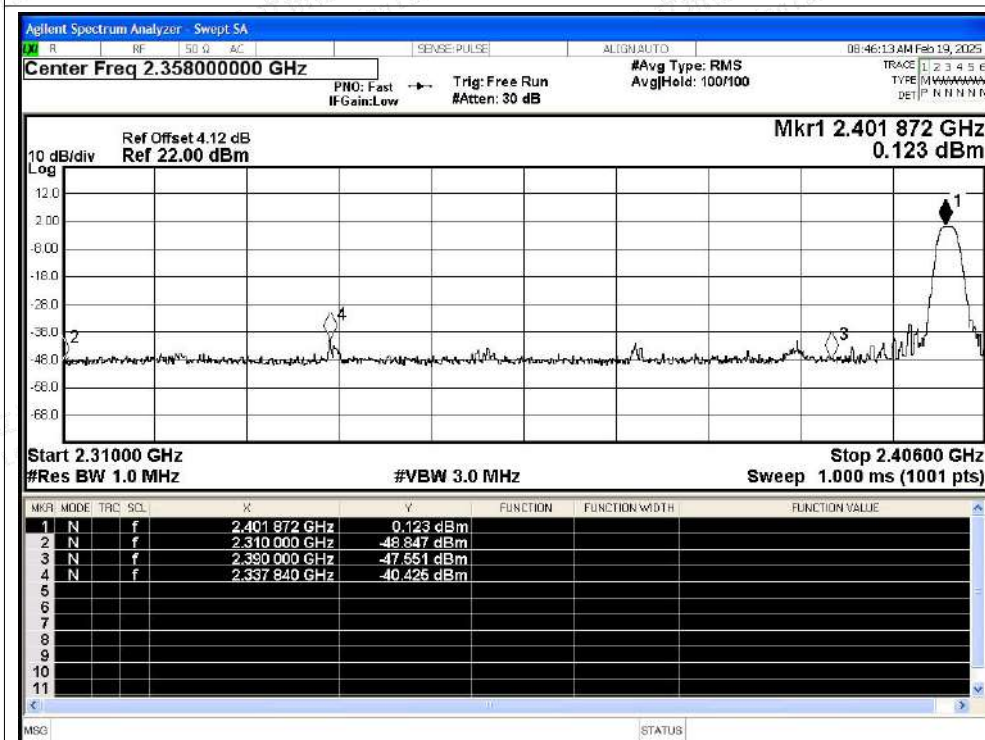
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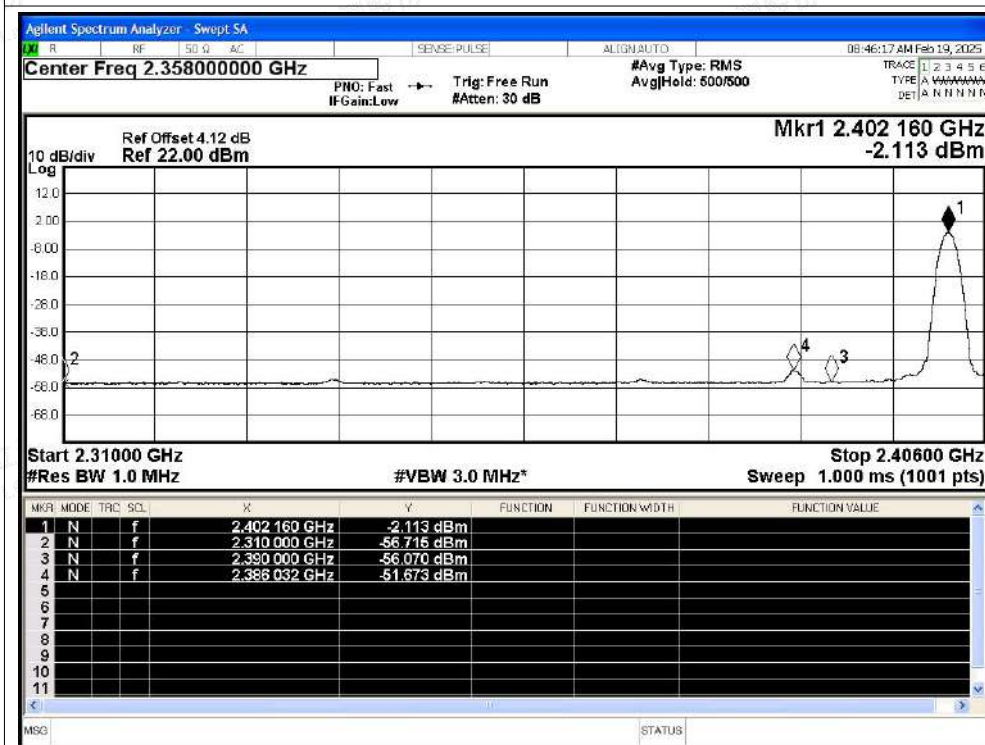


## Test Graphs

## Restrict Band NVNT 2.4G 1M 2402MHz Ant1 Peak



## Restrict Band NVNT 2.4G 1M 2402MHz Ant1 Average



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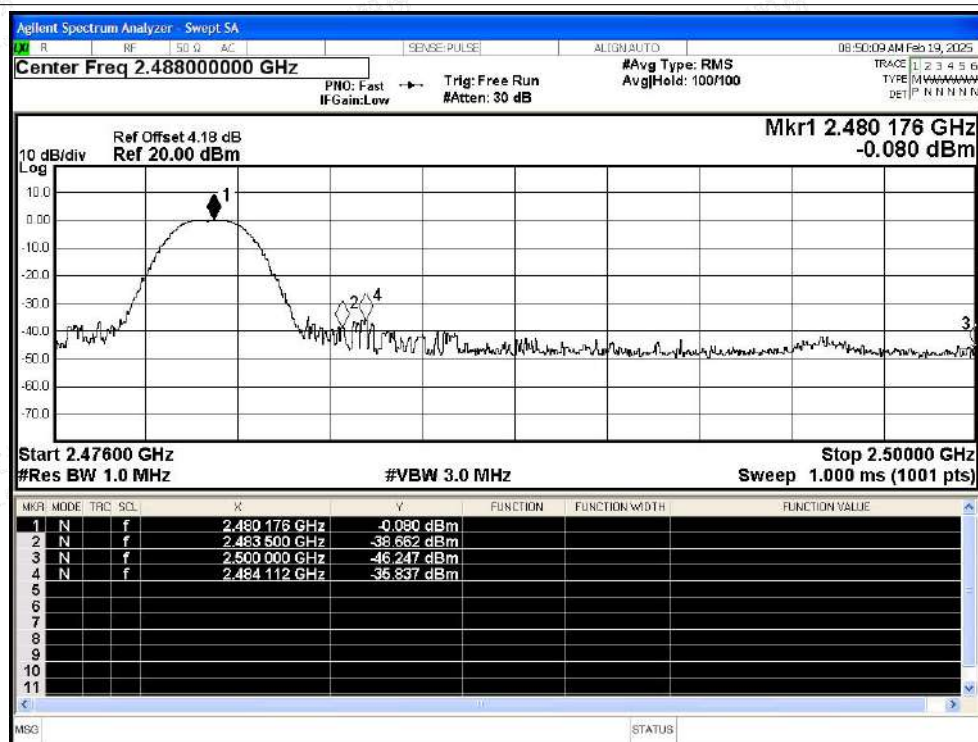
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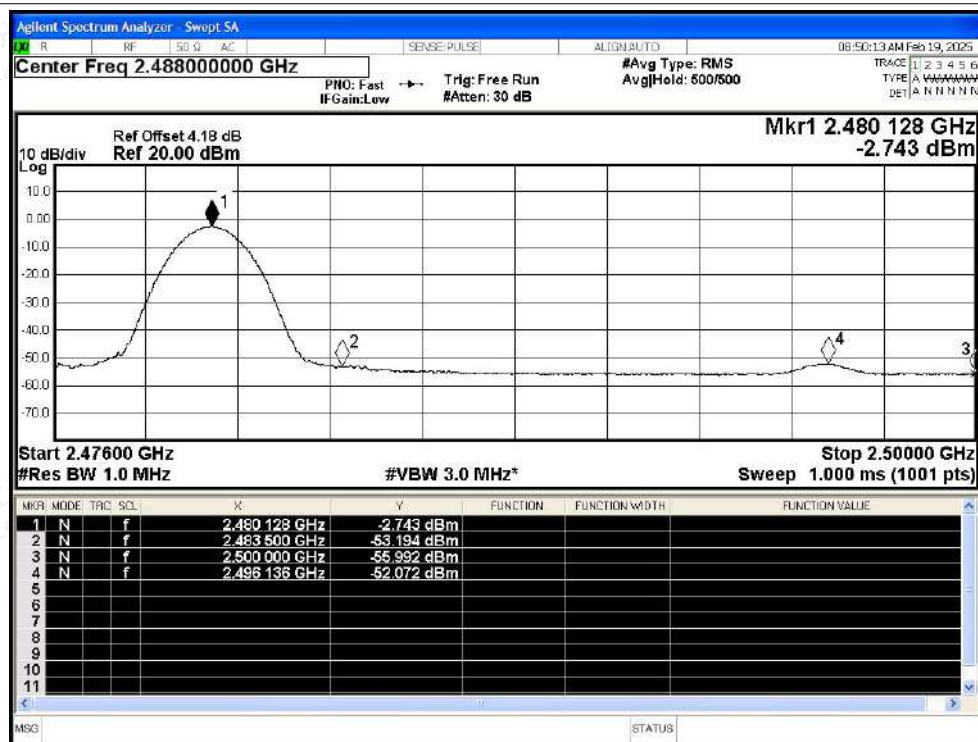
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## Restrict Band NVNT 2.4G 1M 2480MHz Ant1 Peak



## Restrict Band NVNT 2.4G 1M 2480MHz Ant1 Average



## Test Graphs

## Restrict Band NVNT 2.4G 2M 2402MHz Ant1 Peak

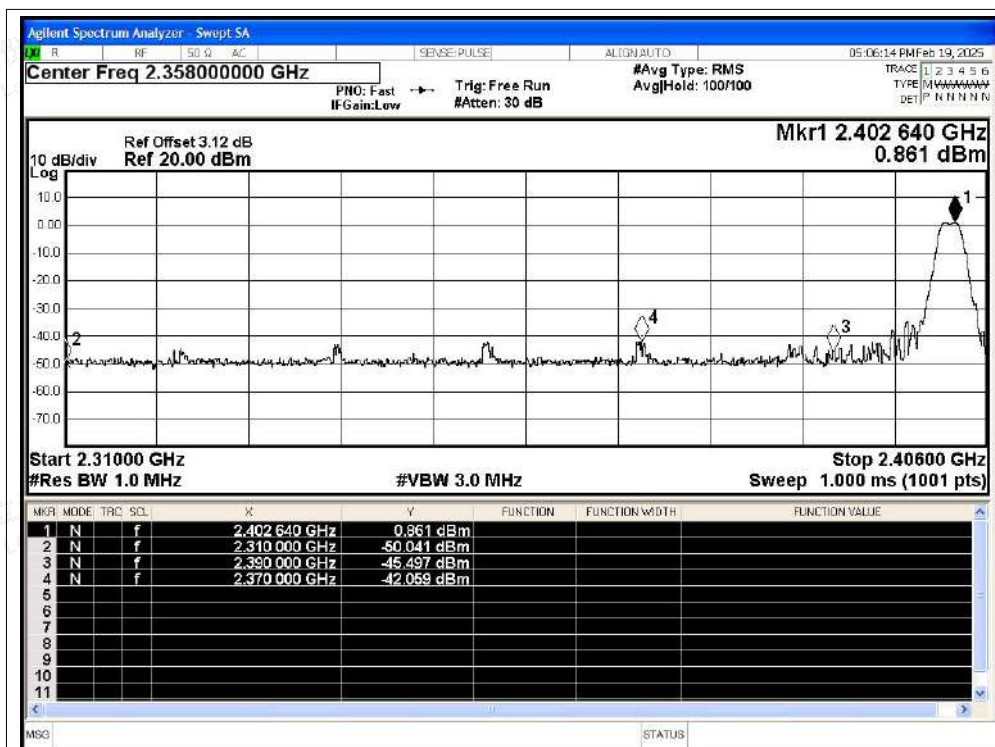


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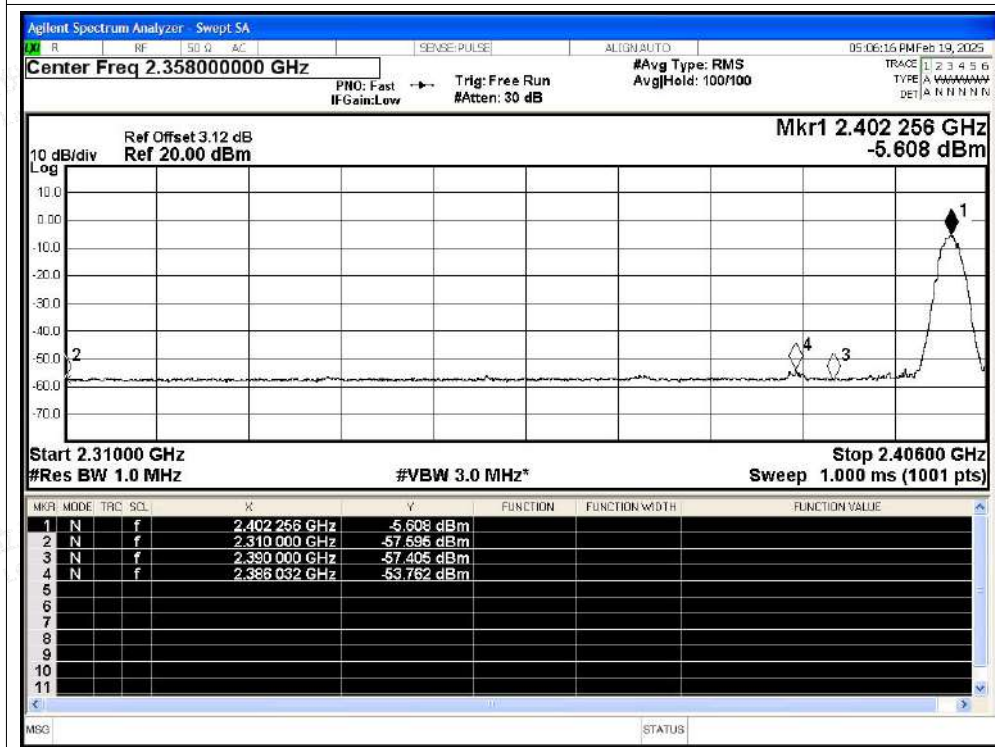
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Restrict Band NVNT 2.4G 2M 2402MHz Ant1 Average



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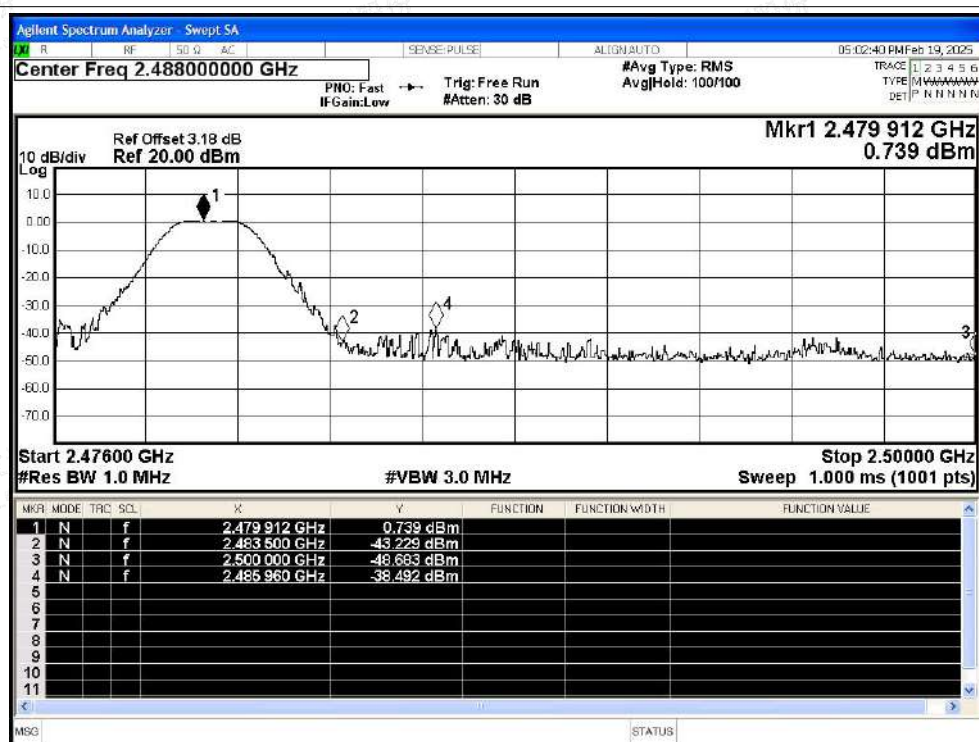
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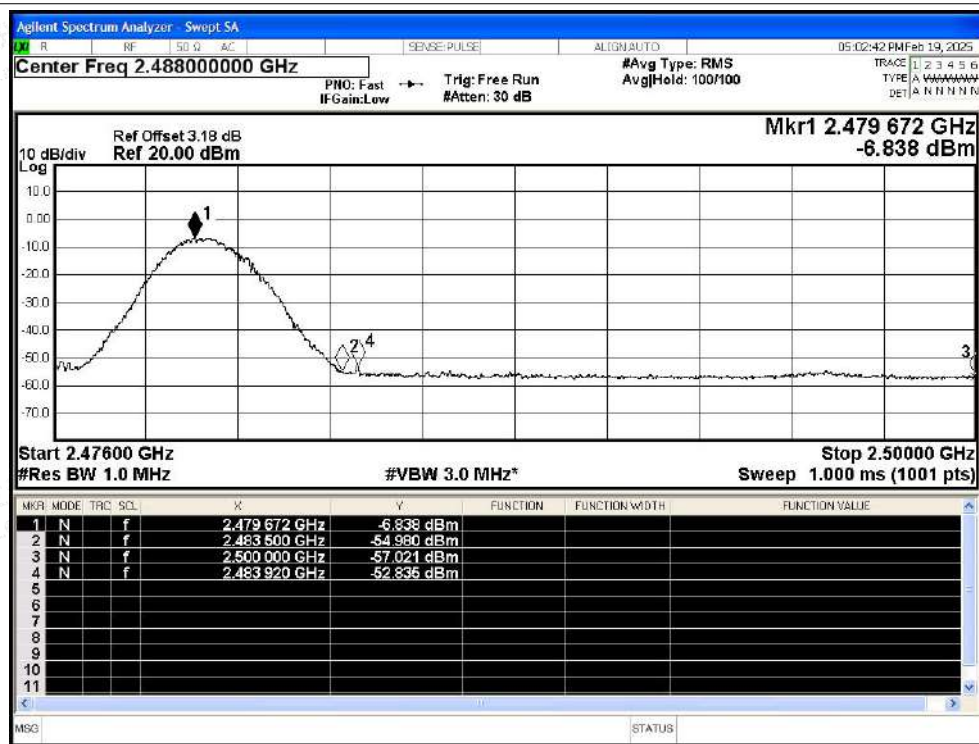
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## Restrict Band NVNT 2.4G 2M 2480MHz Ant1 Peak



## Restrict Band NVNT 2.4G 2M 2480MHz Ant1 Average



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