



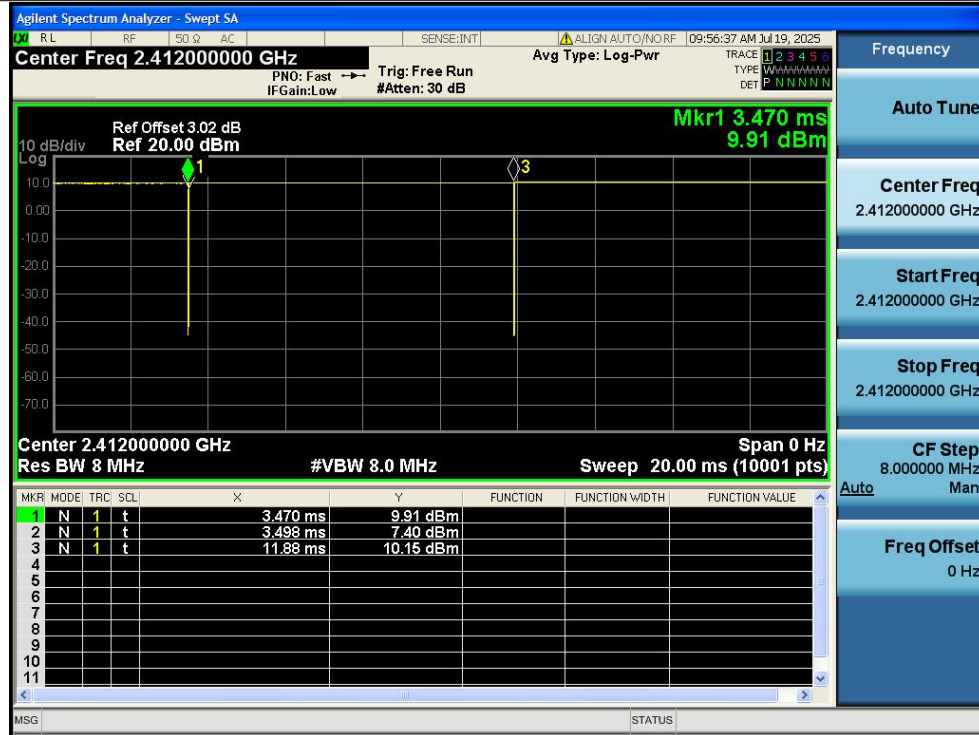
# Appendix F 2.4GWIFI-ANT1

## Duty Cycle

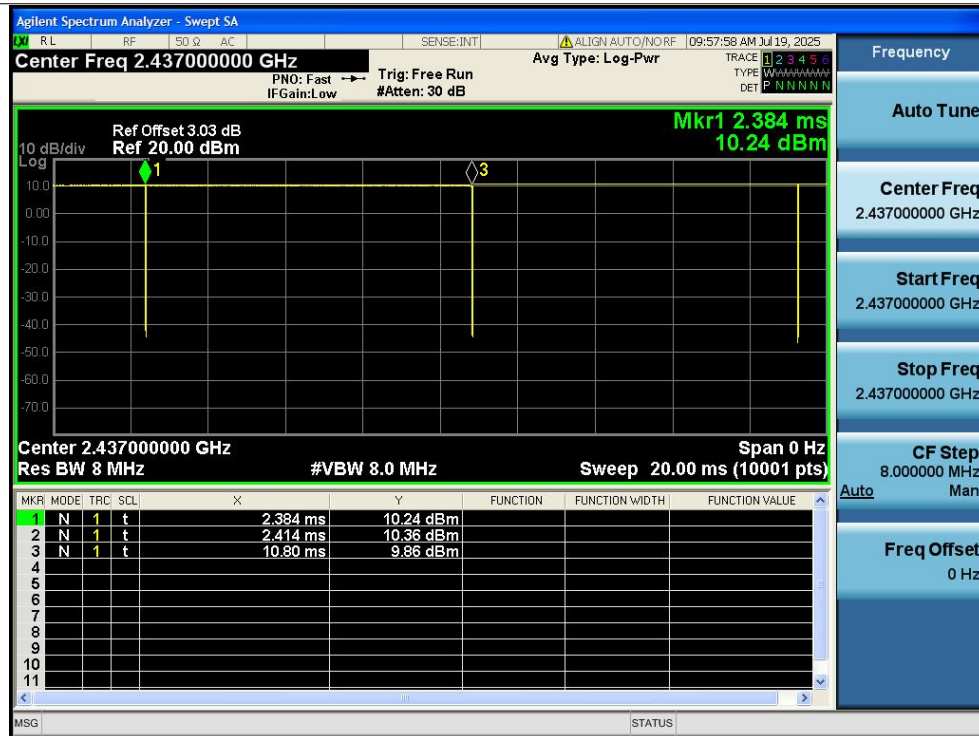
| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|------|-----------------|---------|----------------|------------------------|-----------|
| NVNT      | b    | 2412            | Ant1    | 99.67          | 0.01                   | 0.12      |
| NVNT      | b    | 2437            | Ant1    | 99.64          | 0.02                   | 0.12      |
| NVNT      | b    | 2462            | Ant1    | 99.64          | 0.02                   | 0.12      |
| NVNT      | g    | 2412            | Ant1    | 97.48          | 0.11                   | 0.72      |
| NVNT      | g    | 2437            | Ant1    | 97.48          | 0.11                   | 0.72      |
| NVNT      | g    | 2462            | Ant1    | 97.48          | 0.11                   | 0.72      |
| NVNT      | n20  | 2412            | Ant1    | 97.31          | 0.12                   | 0.77      |
| NVNT      | n20  | 2437            | Ant1    | 97.31          | 0.12                   | 0.77      |
| NVNT      | n20  | 2462            | Ant1    | 97.31          | 0.12                   | 0.77      |
| NVNT      | n40  | 2422            | Ant1    | 95.01          | 0.22                   | 1.54      |
| NVNT      | n40  | 2437            | Ant1    | 94.74          | 0.23                   | 1.54      |
| NVNT      | n40  | 2452            | Ant1    | 95.01          | 0.22                   | 1.54      |

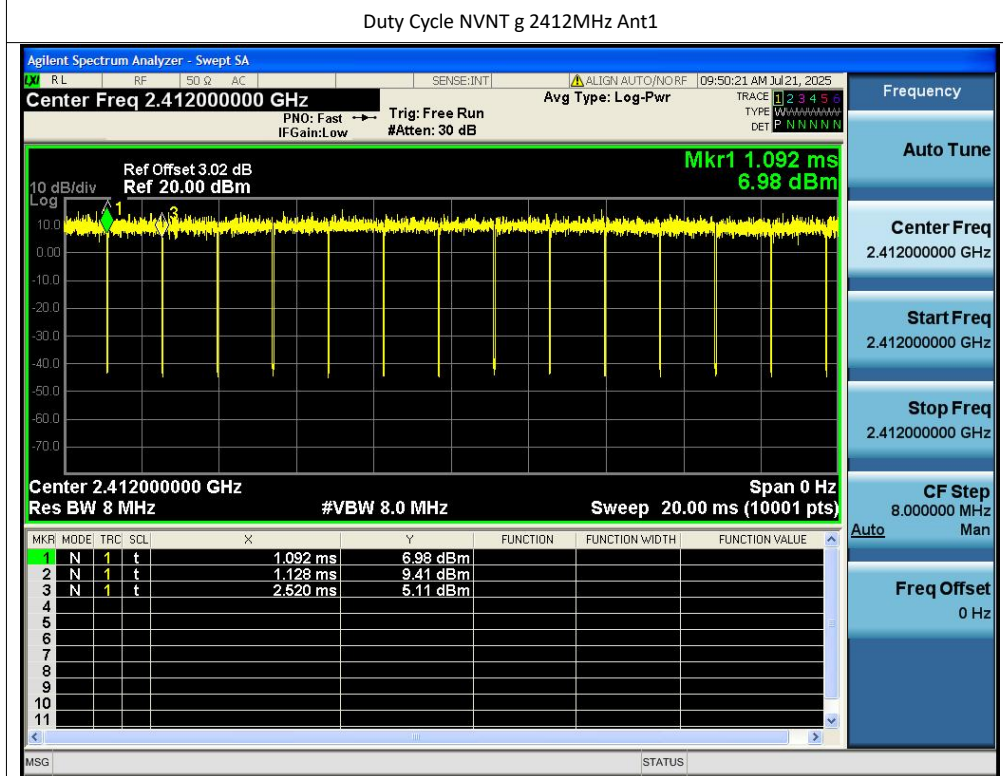
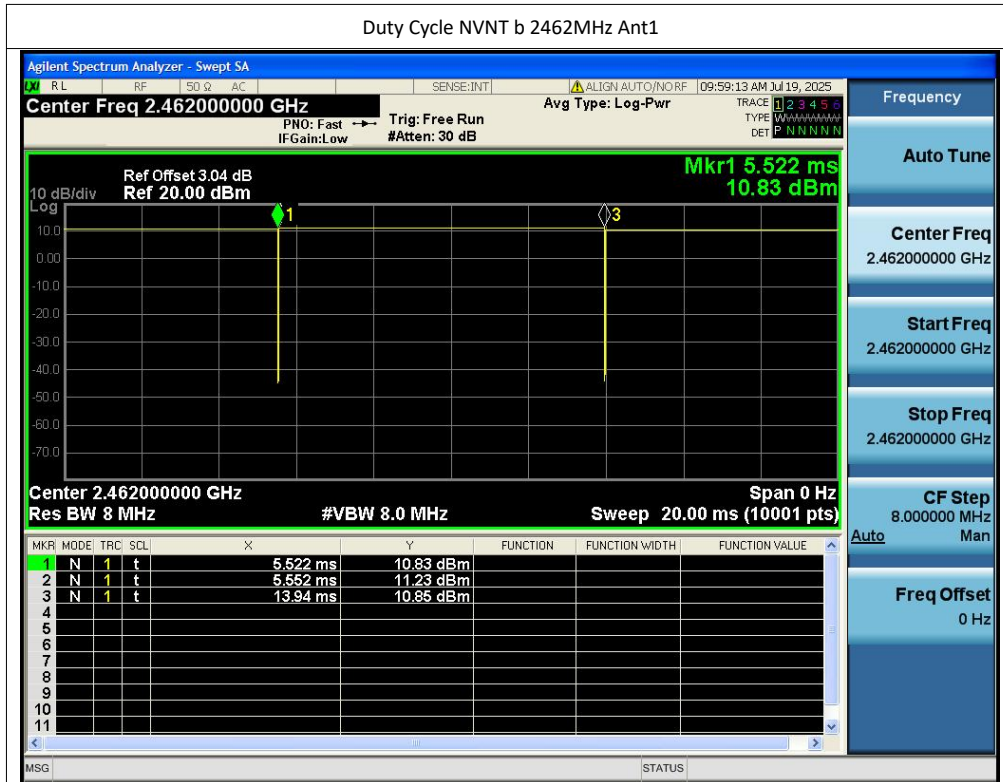
## Test Graphs

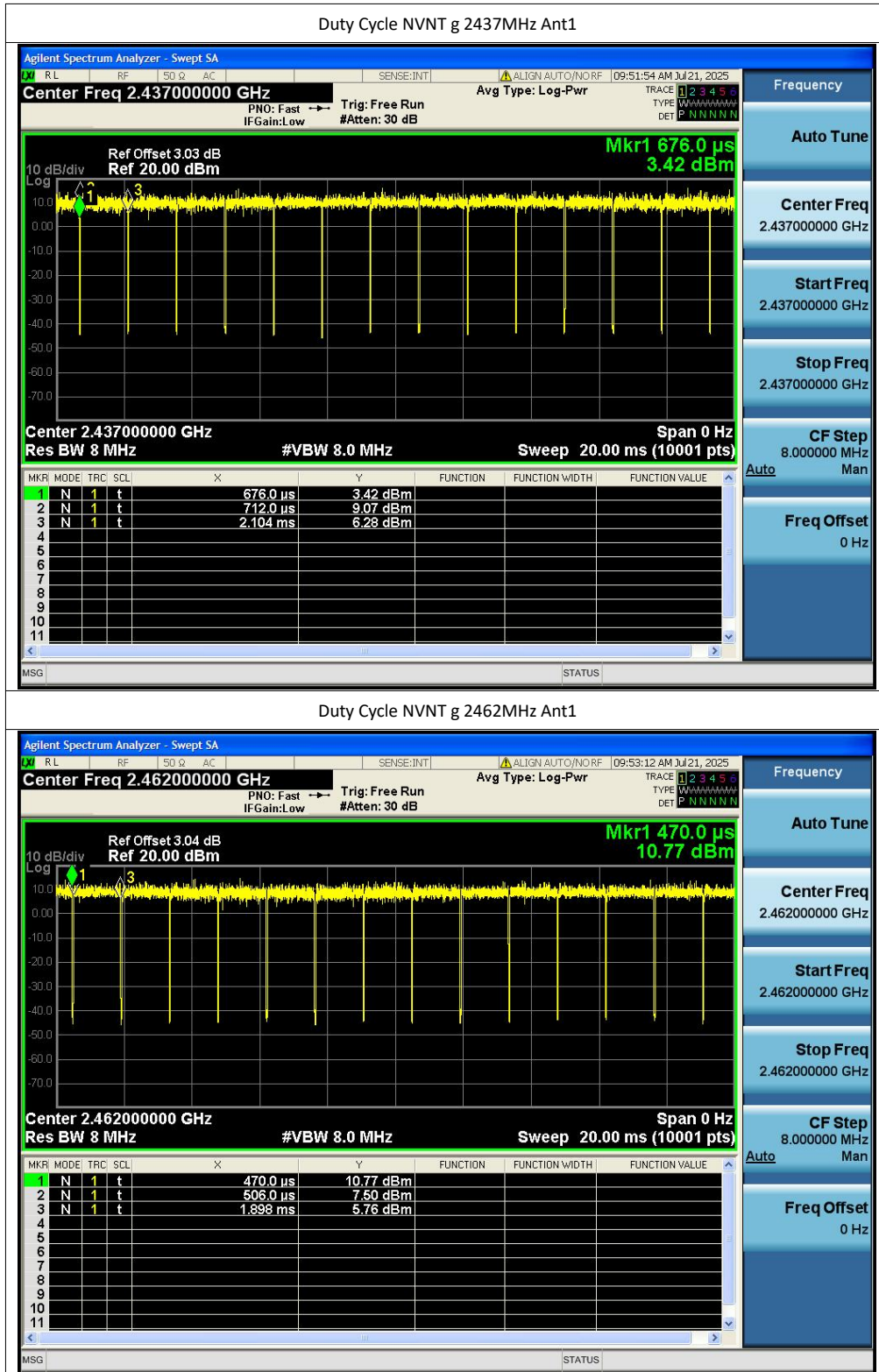
## Duty Cycle NVNT b 2412MHz Ant1

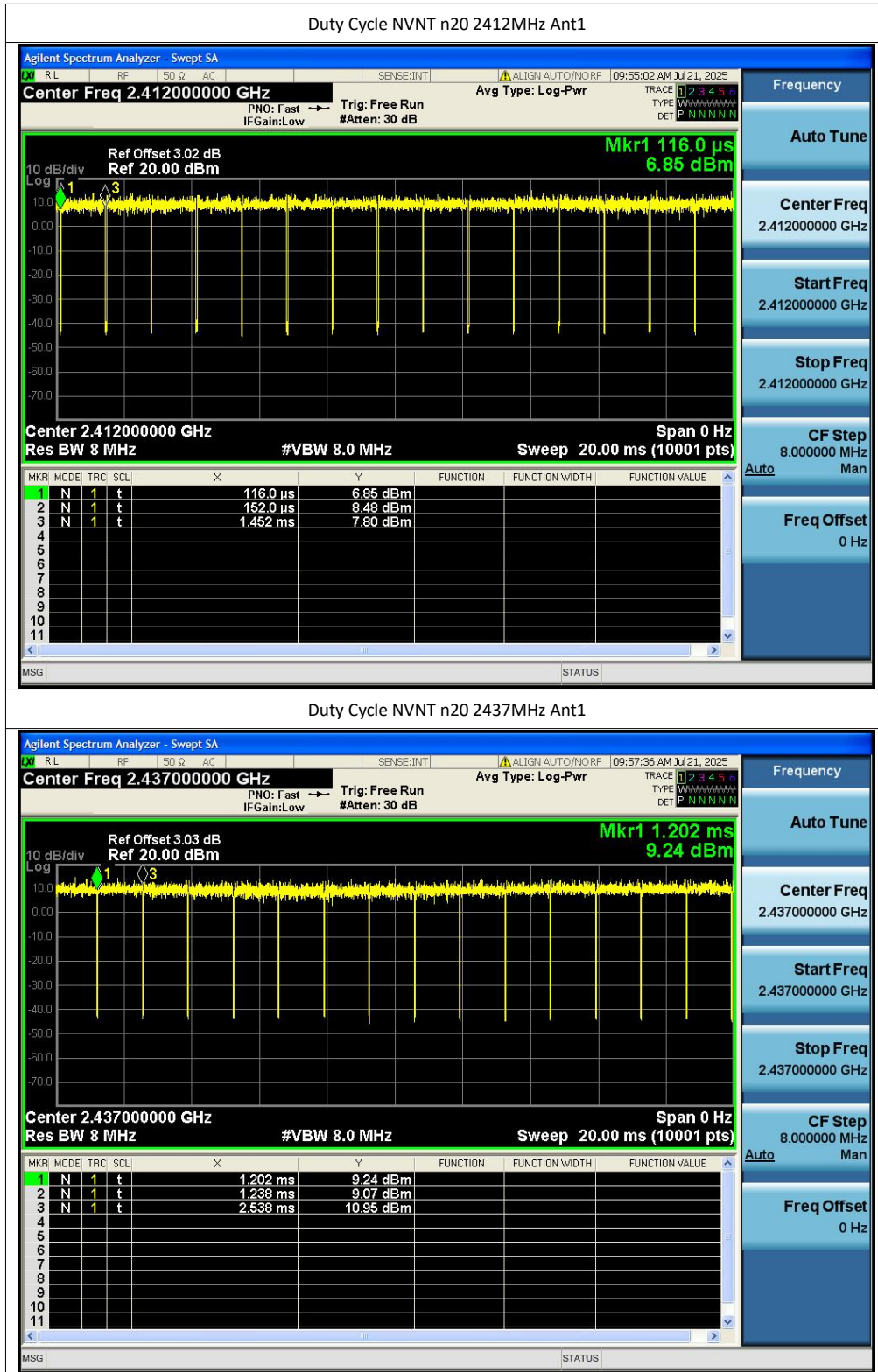


## Duty Cycle NVNT b 2437MHz Ant1

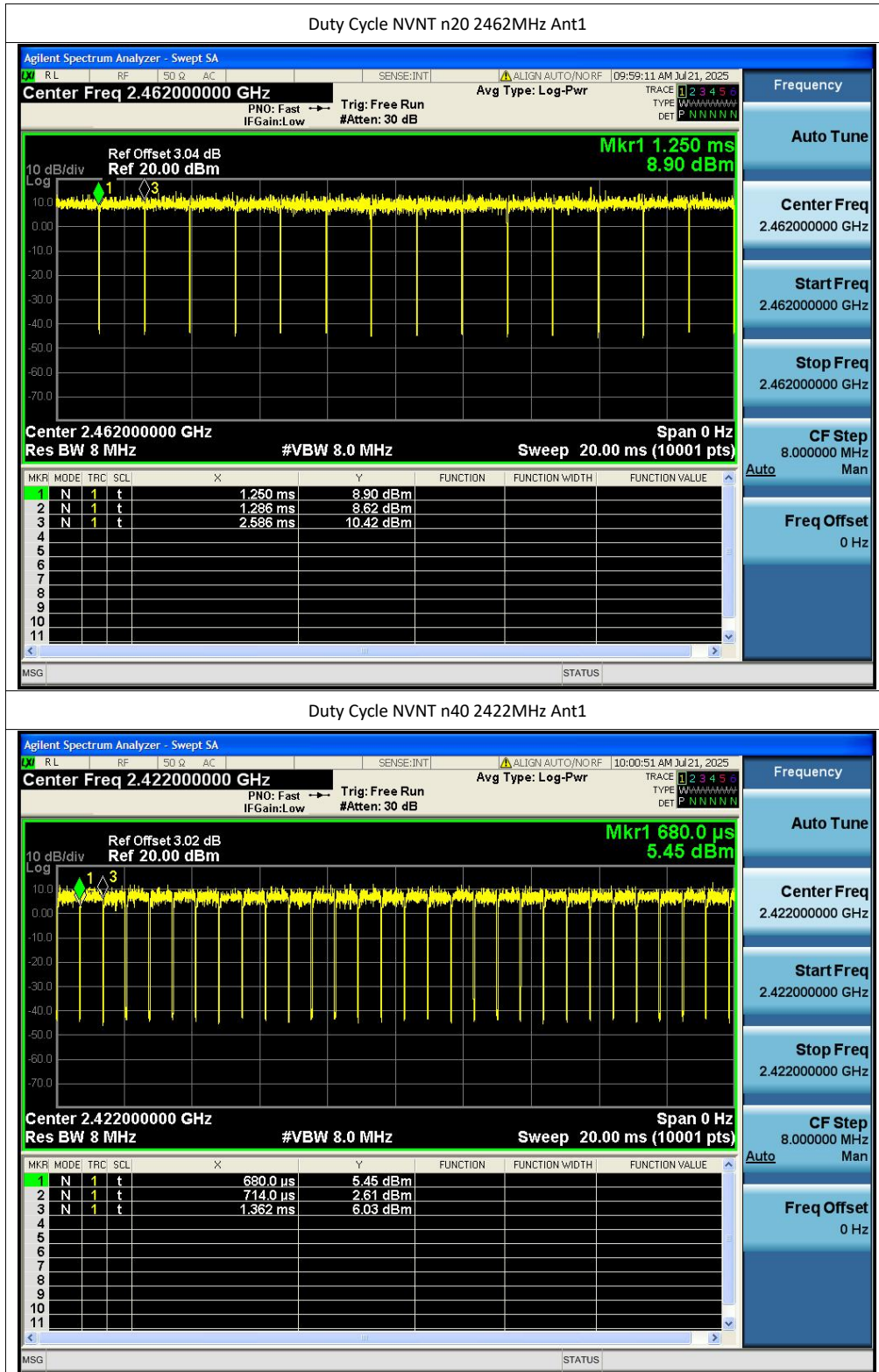


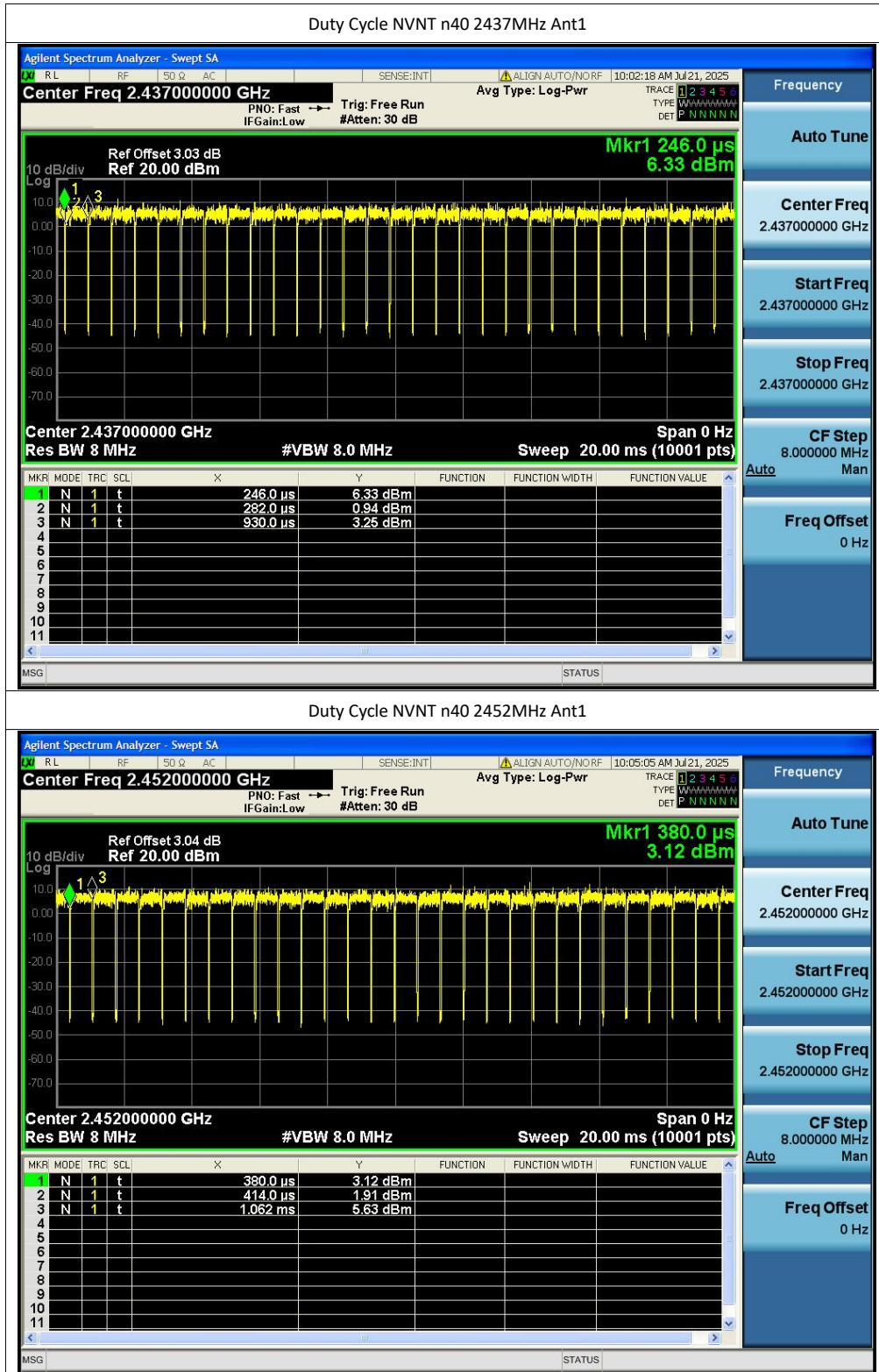














## Maximum Conducted Output Power

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Duty Factor (dB) | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|------------------|-------------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | 6.54                  | 0.01             | 6.55              | 30          | Pass    |
| NVNT      | b    | 2437            | Ant1    | 6.67                  | 0.02             | 6.69              | 30          | Pass    |
| NVNT      | b    | 2462            | Ant1    | 6.76                  | 0.02             | 6.78              | 30          | Pass    |
| NVNT      | g    | 2412            | Ant1    | 6.49                  | 0.11             | 6.6               | 30          | Pass    |
| NVNT      | g    | 2437            | Ant1    | 6.81                  | 0.11             | 6.92              | 30          | Pass    |
| NVNT      | g    | 2462            | Ant1    | 5.78                  | 0.11             | 5.89              | 30          | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 6.49                  | 0.12             | 6.61              | 30          | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 6.76                  | 0.12             | 6.88              | 30          | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 6.62                  | 0.12             | 6.74              | 30          | Pass    |
| NVNT      | n40  | 2422            | Ant1    | 6.74                  | 0.22             | 6.96              | 30          | Pass    |
| NVNT      | n40  | 2437            | Ant1    | 6                     | 0.23             | 6.23              | 30          | Pass    |
| NVNT      | n40  | 2452            | Ant1    | 5.91                  | 0.22             | 6.13              | 30          | Pass    |

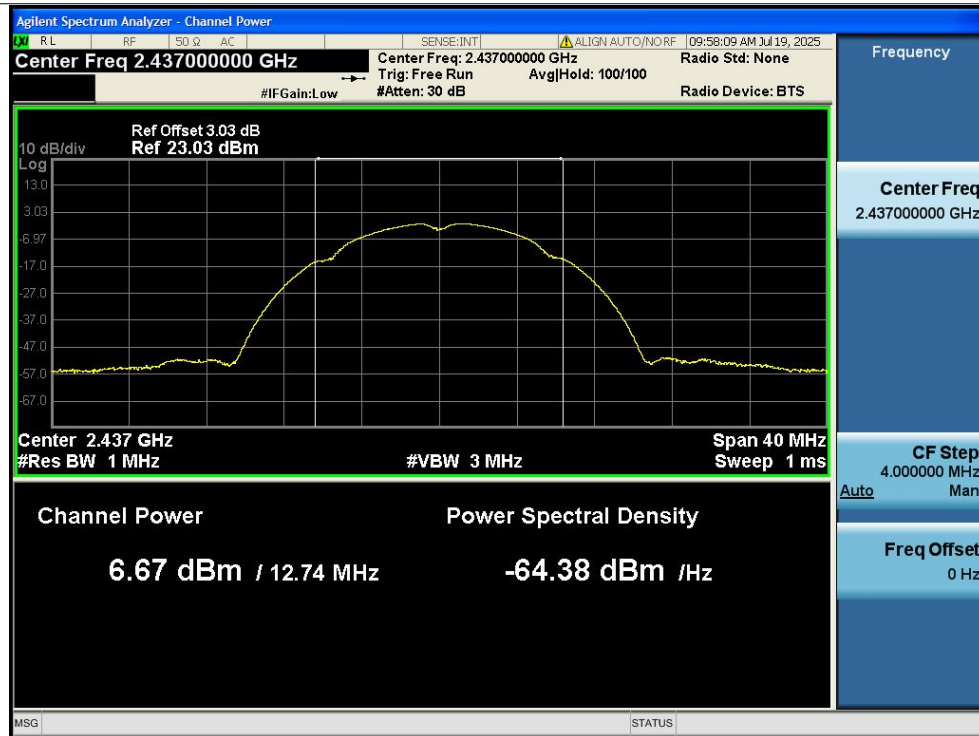


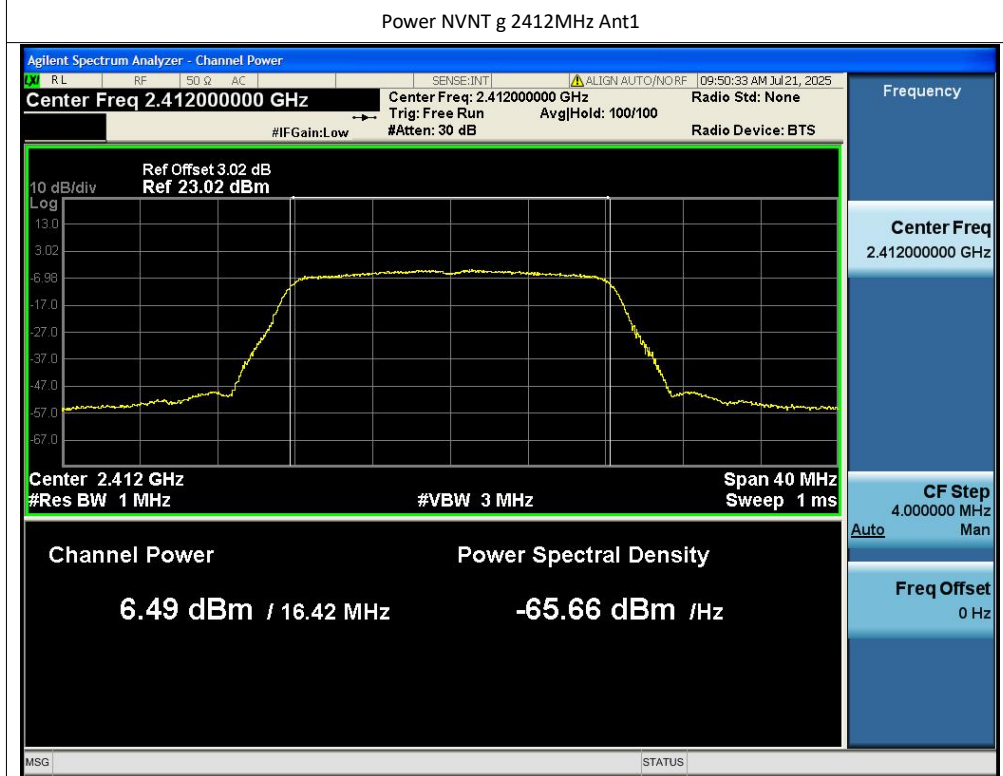
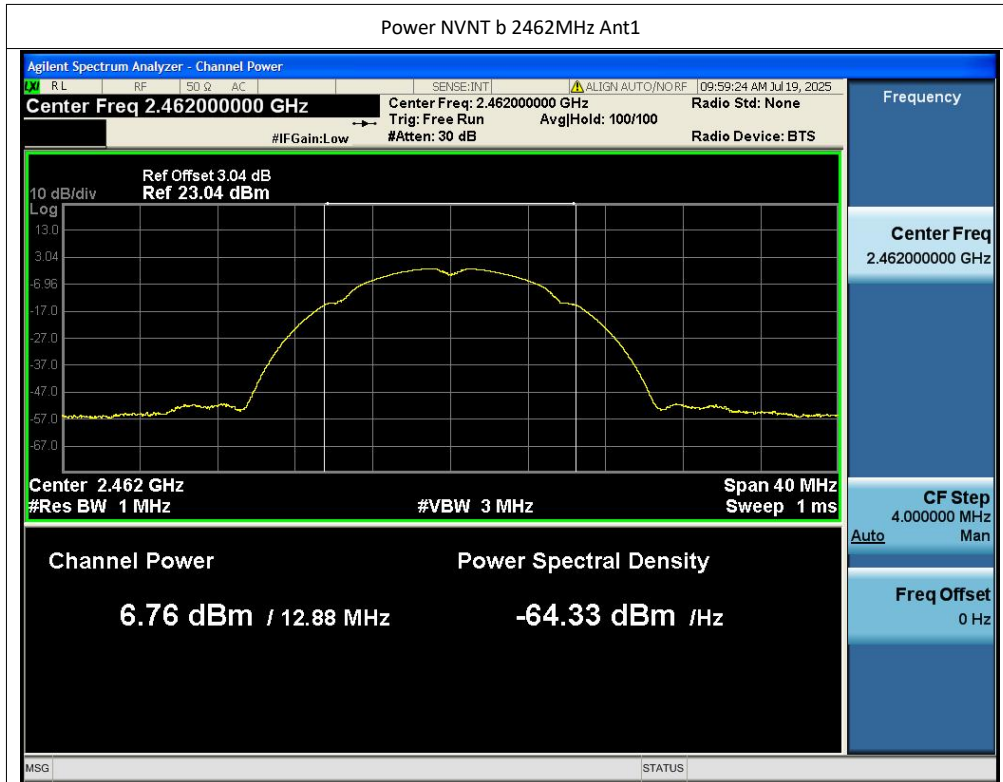
## Test Graphs

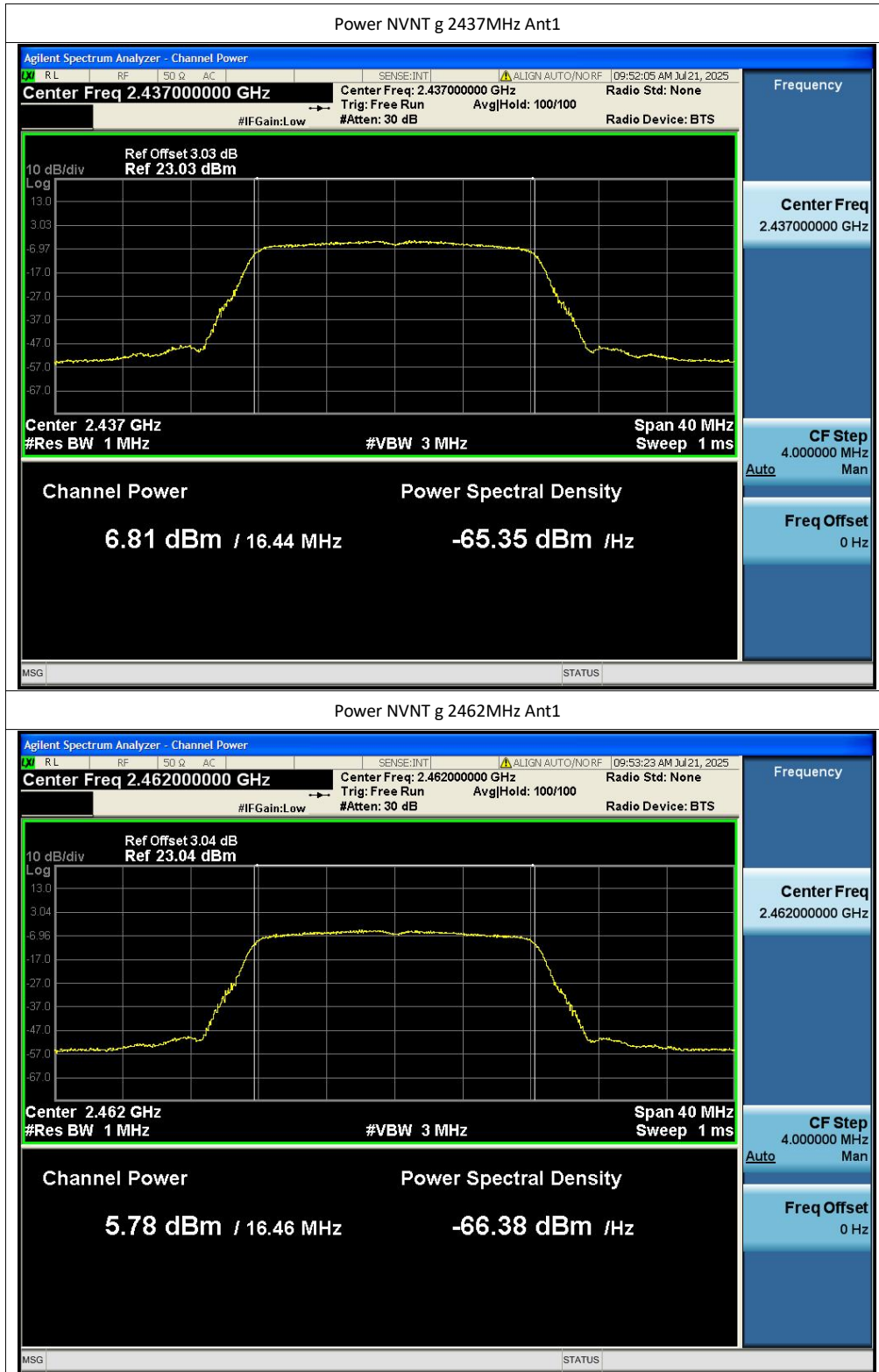
## Power NVNT b 2412MHz Ant1

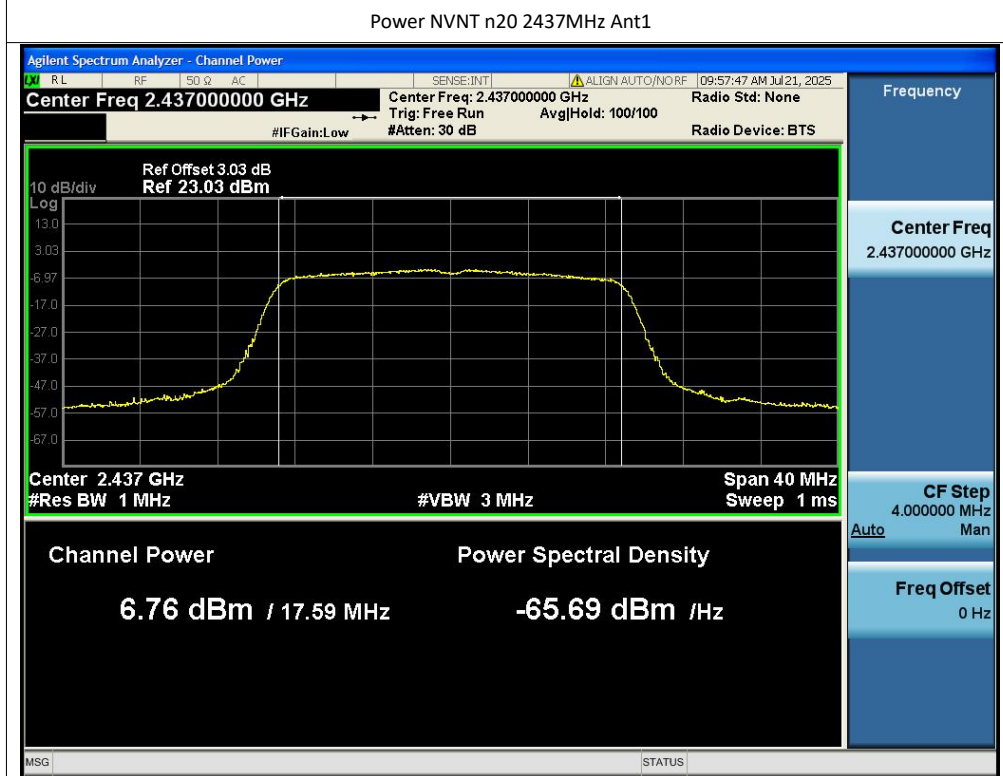
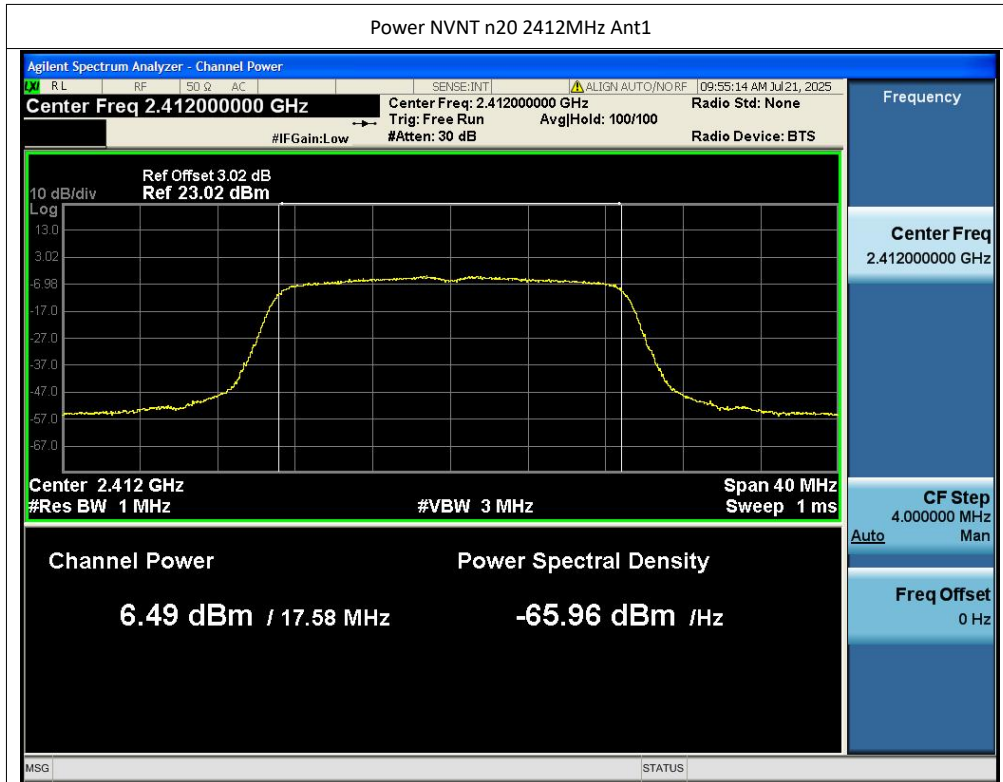


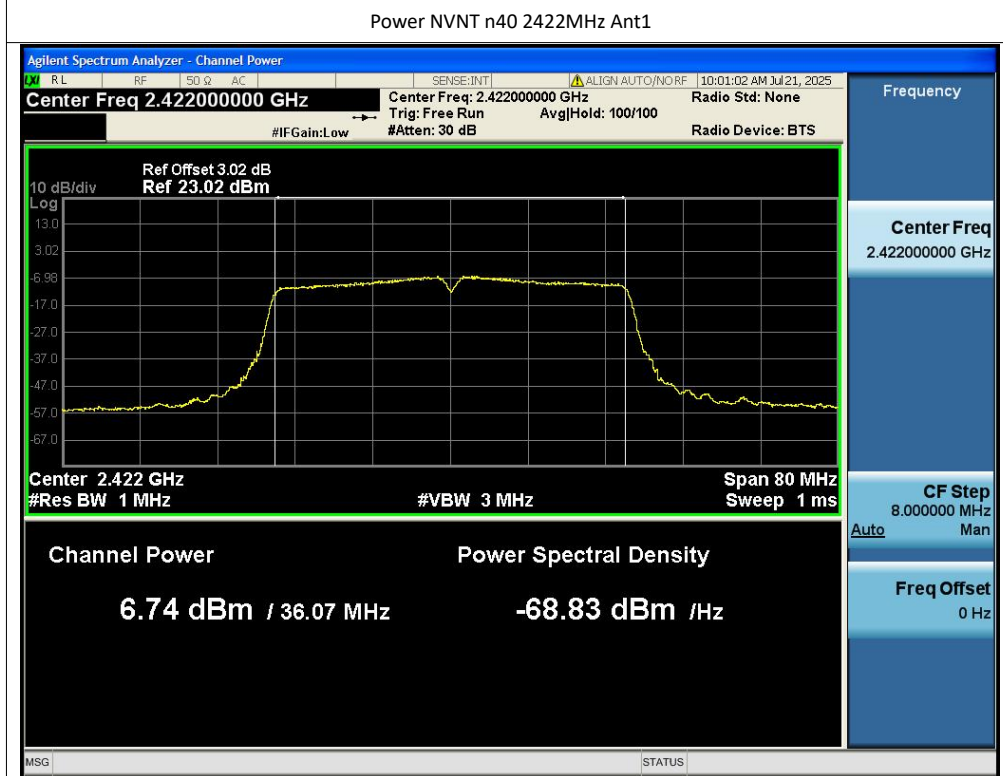
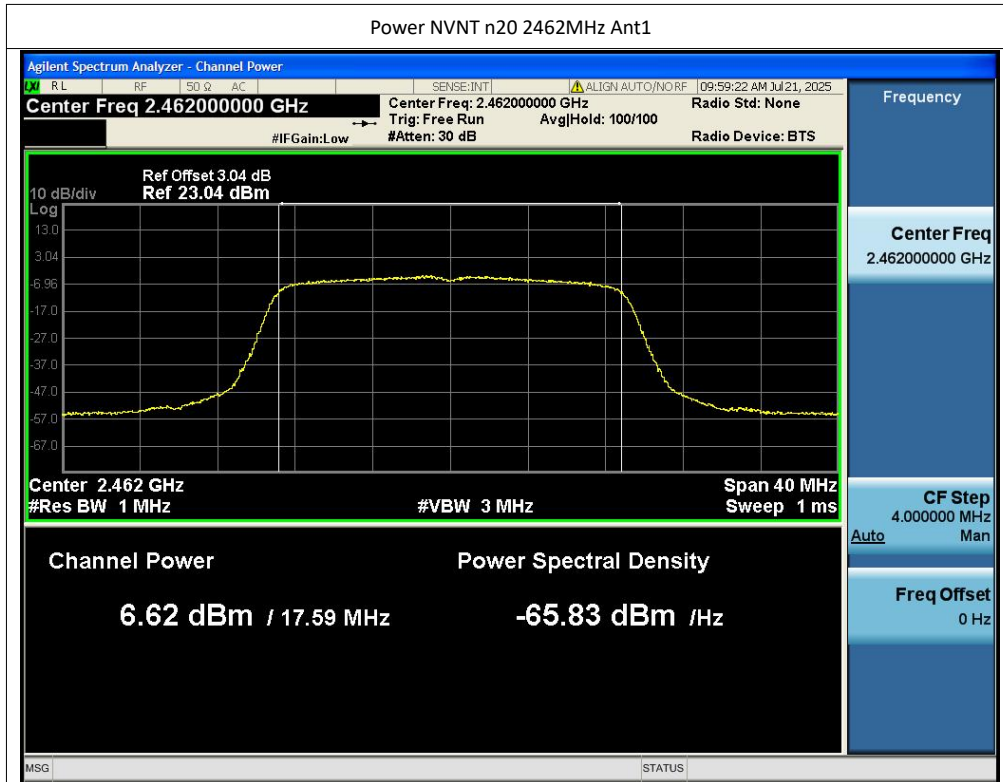
## Power NVNT b 2437MHz Ant1



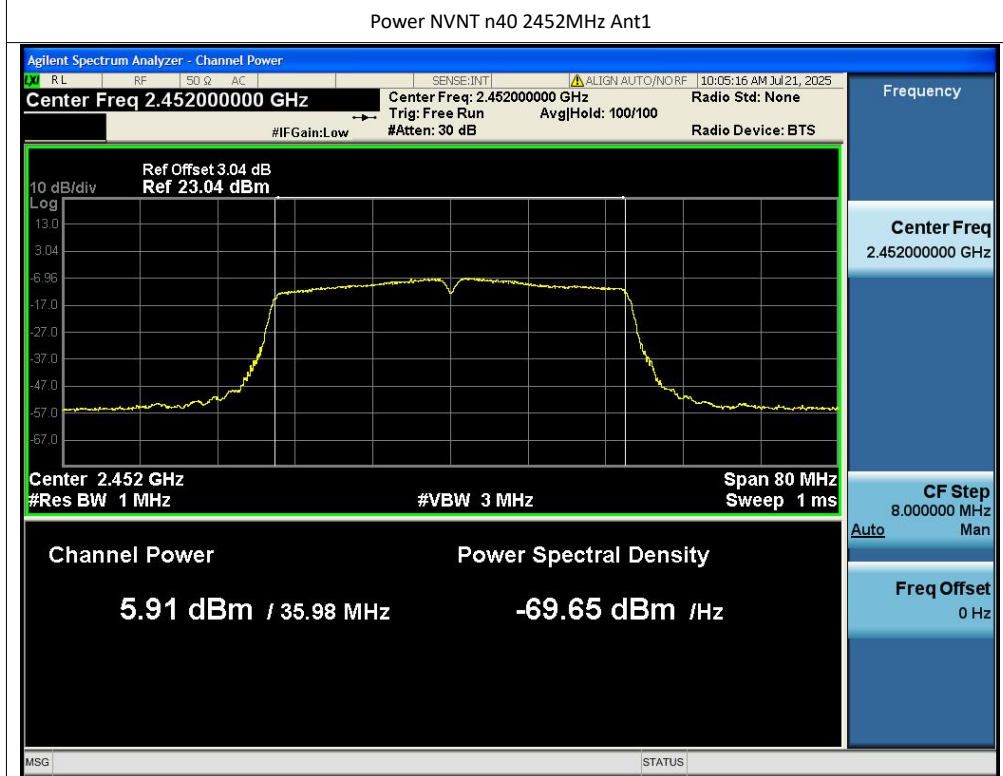
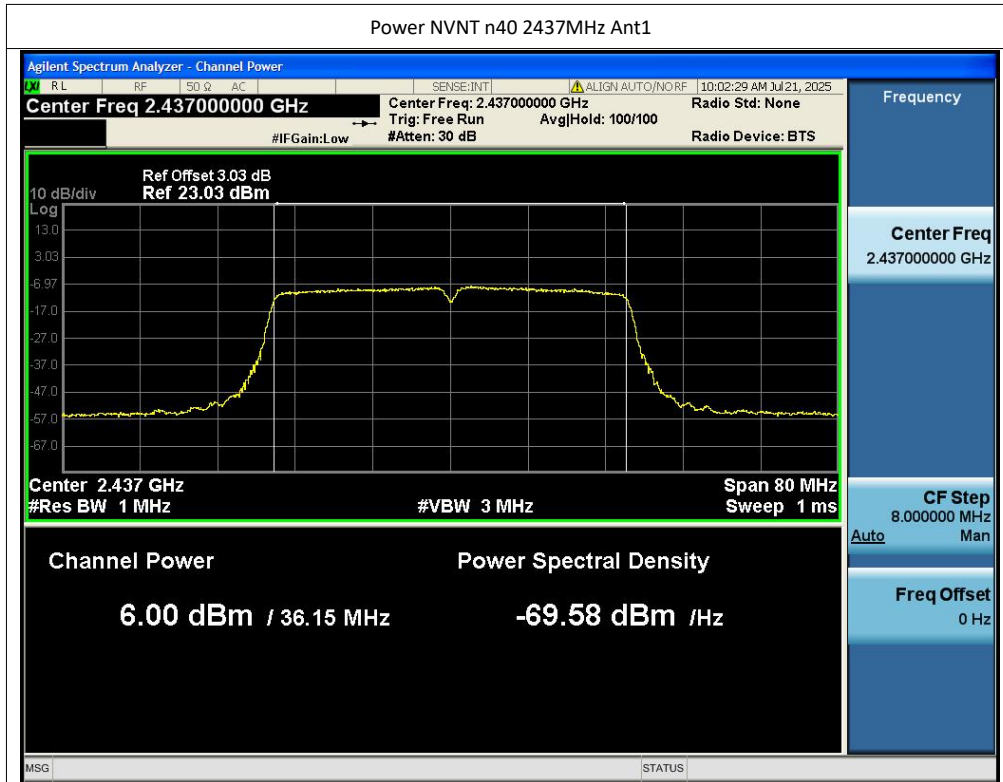












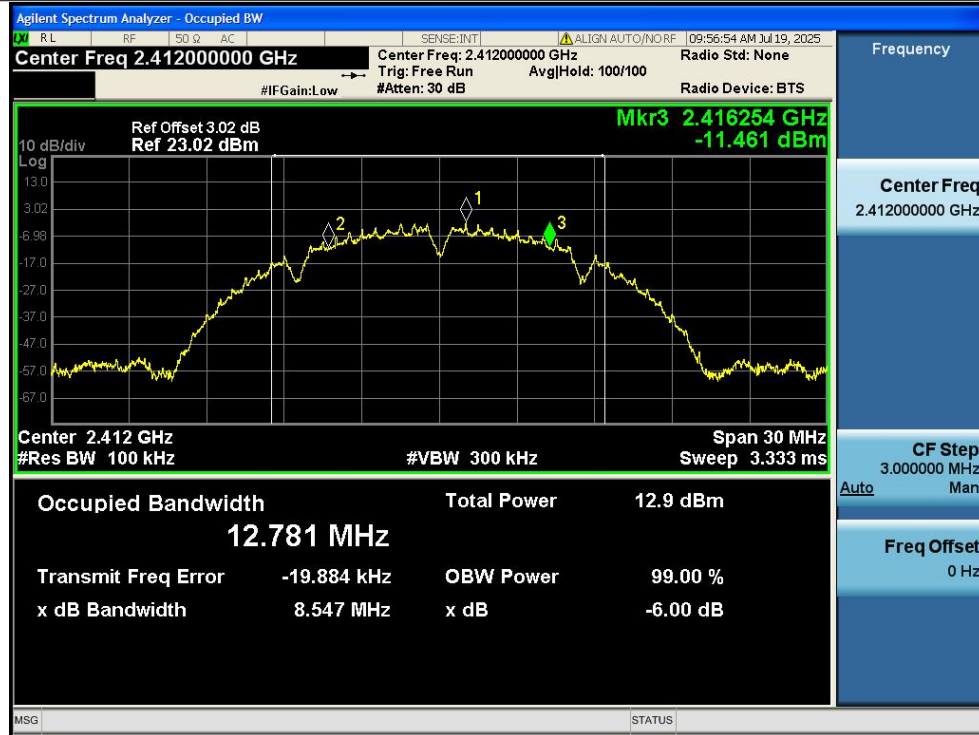


## -6dB Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | b    | 2412            | Ant1    | 8.547                 | 0.5                         | Pass    |
| NVNT      | b    | 2437            | Ant1    | 8.045                 | 0.5                         | Pass    |
| NVNT      | b    | 2462            | Ant1    | 8.02                  | 0.5                         | Pass    |
| NVNT      | g    | 2412            | Ant1    | 15.269                | 0.5                         | Pass    |
| NVNT      | g    | 2437            | Ant1    | 15.912                | 0.5                         | Pass    |
| NVNT      | g    | 2462            | Ant1    | 16.012                | 0.5                         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 14.701                | 0.5                         | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 16.911                | 0.5                         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 15.036                | 0.5                         | Pass    |
| NVNT      | n40  | 2422            | Ant1    | 35.104                | 0.5                         | Pass    |
| NVNT      | n40  | 2437            | Ant1    | 35.297                | 0.5                         | Pass    |
| NVNT      | n40  | 2452            | Ant1    | 35.072                | 0.5                         | Pass    |

## Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1



## -6dB Bandwidth NVNT b 2462MHz Ant1



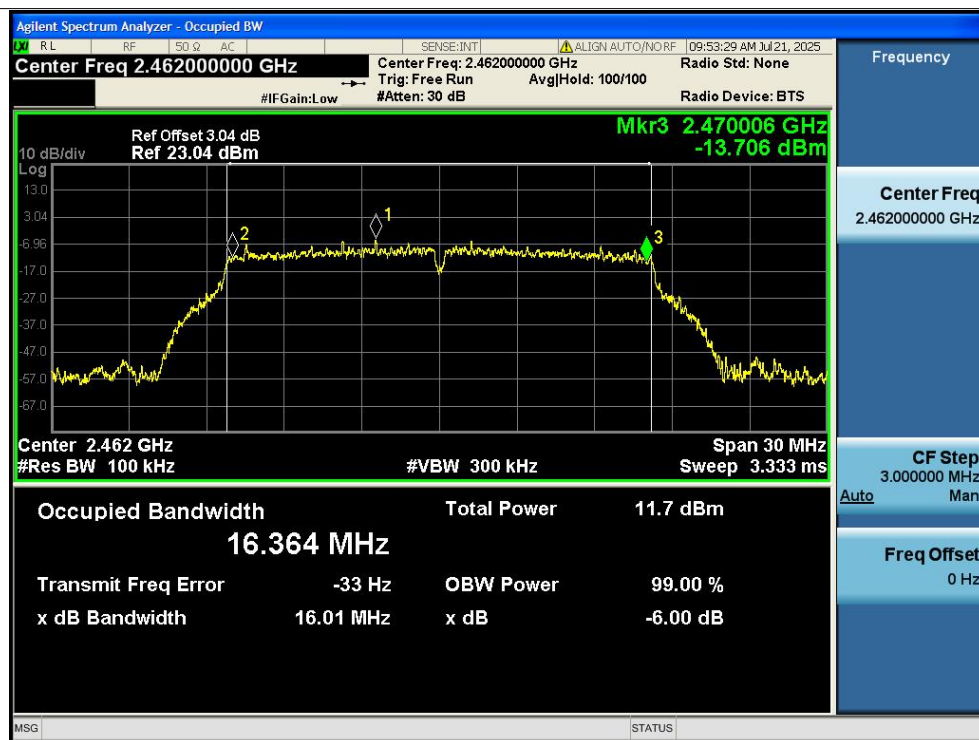
## -6dB Bandwidth NVNT g 2412MHz Ant1



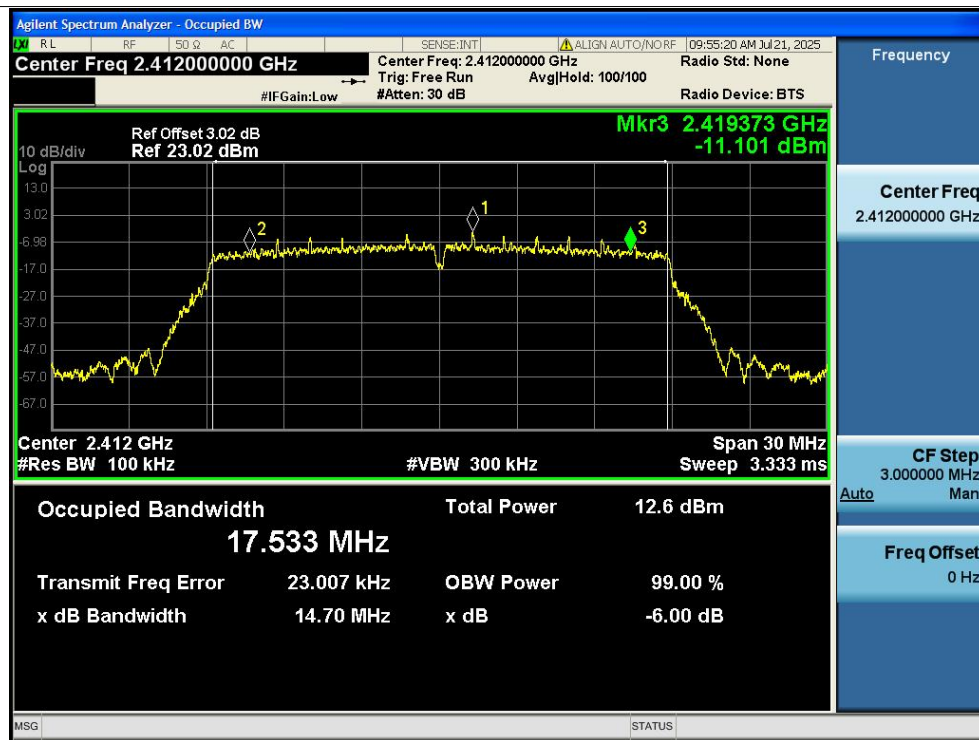
-6dB Bandwidth NVNT g 2437MHz Ant1



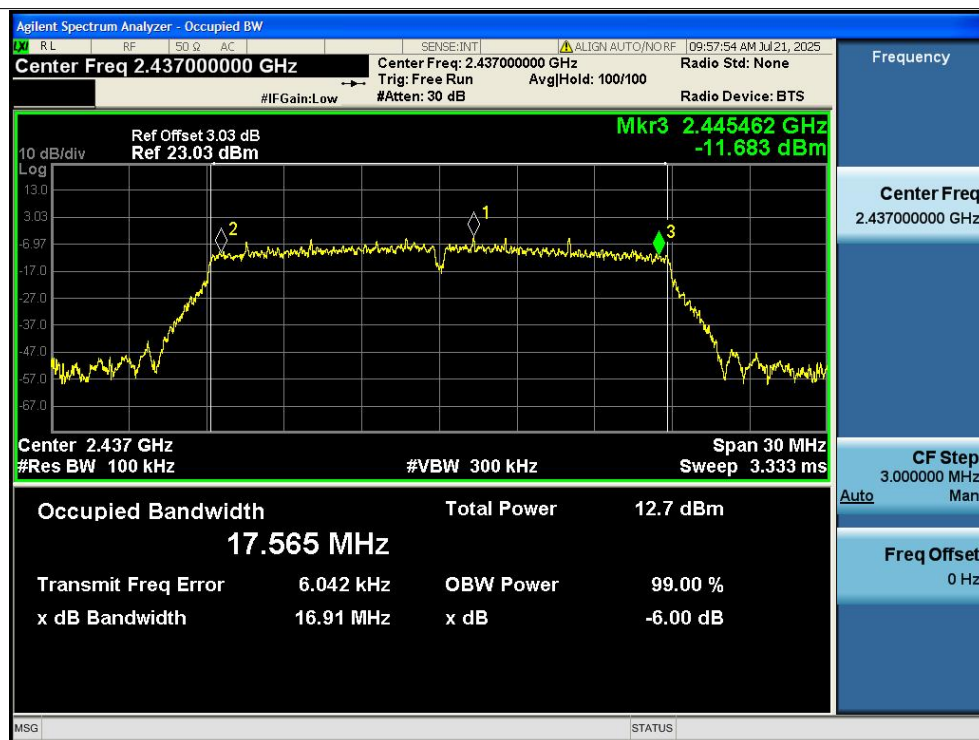
-6dB Bandwidth NVNT g 2462MHz Ant1



## -6dB Bandwidth NVNT n20 2412MHz Ant1



## -6dB Bandwidth NVNT n20 2437MHz Ant1





## -6dB Bandwidth NVNT n20 2462MHz Ant1



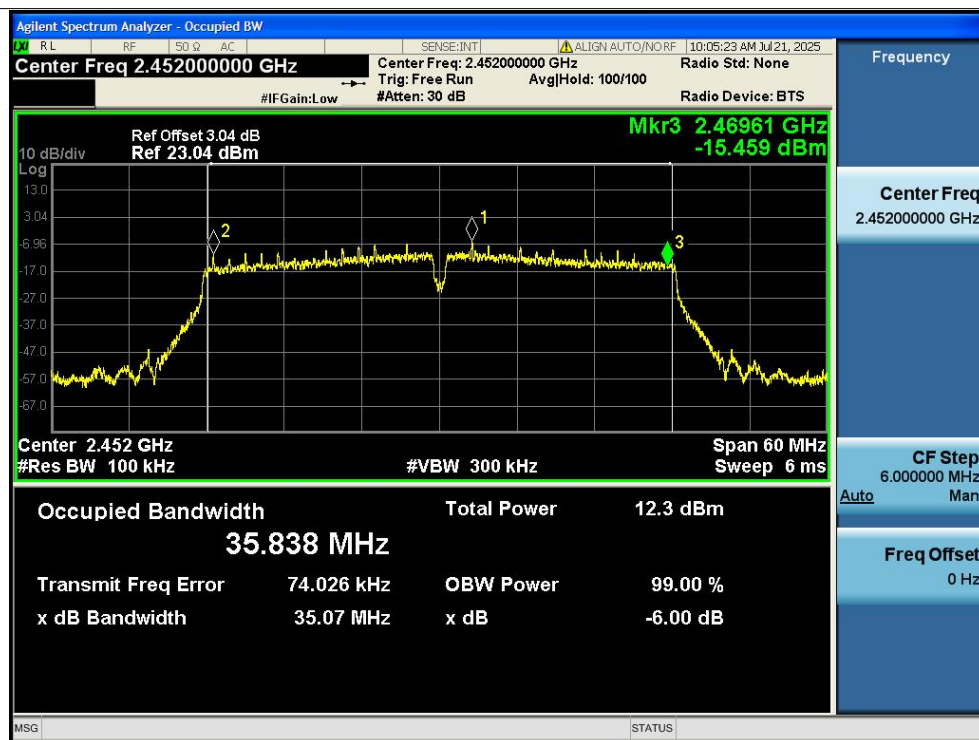
## -6dB Bandwidth NVNT n40 2422MHz Ant1



-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1



## Occupied Channel Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|-----------|------|-----------------|---------|---------------|
| NVNT      | b    | 2412            | Ant1    | 12.811        |
| NVNT      | b    | 2437            | Ant1    | 12.74         |
| NVNT      | b    | 2462            | Ant1    | 12.876        |
| NVNT      | g    | 2412            | Ant1    | 16.417        |
| NVNT      | g    | 2437            | Ant1    | 16.441        |
| NVNT      | g    | 2462            | Ant1    | 16.462        |
| NVNT      | n20  | 2412            | Ant1    | 17.577        |
| NVNT      | n20  | 2437            | Ant1    | 17.594        |
| NVNT      | n20  | 2462            | Ant1    | 17.588        |
| NVNT      | n40  | 2422            | Ant1    | 36.066        |
| NVNT      | n40  | 2437            | Ant1    | 36.152        |
| NVNT      | n40  | 2452            | Ant1    | 35.979        |