



## Appendix C

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

Product Name: All in one pc

Test Model: XPS24M

#### Environmental Conditions

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



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## C.1 -6dB Bandwidth

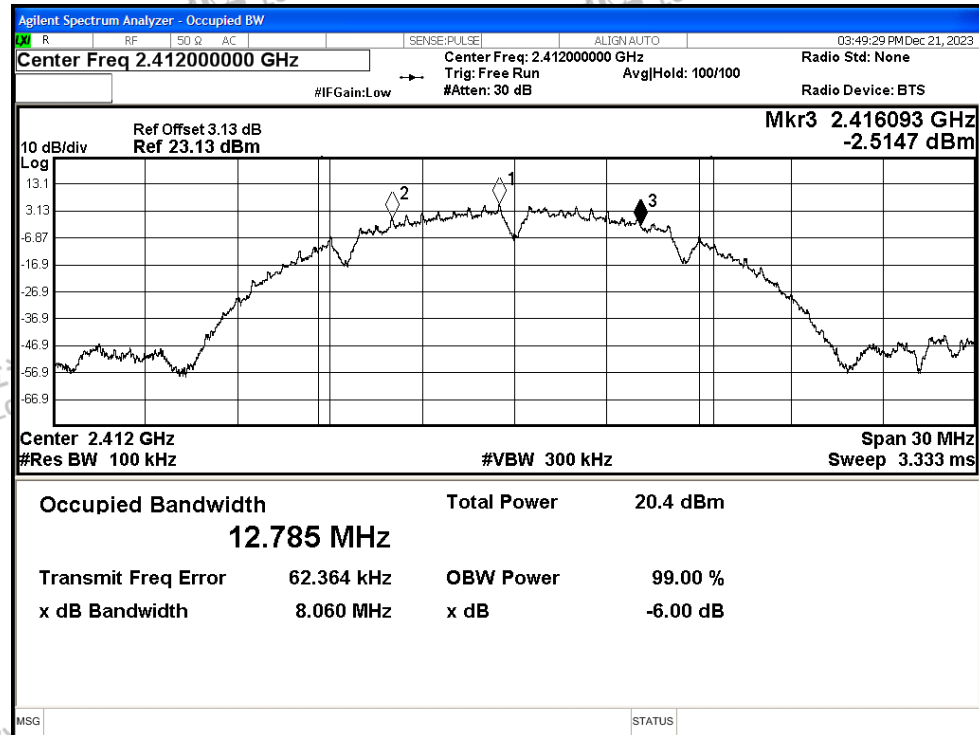
| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | b    | 2412            | Ant0    | 8.06                  | $\geq 0.5$                  | Pass    |
| NVNT      | b    | 2437            | Ant0    | 7.584                 | $\geq 0.5$                  | Pass    |
| NVNT      | b    | 2462            | Ant0    | 7.569                 | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2412            | Ant0    | 14.747                | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2437            | Ant0    | 15.265                | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2462            | Ant0    | 15.196                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2412            | Ant0    | 14.253                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2437            | Ant0    | 15.113                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2462            | Ant0    | 14.064                | $\geq 0.5$                  | Pass    |
| NVNT      | n40  | 2422            | Ant0    | 35.094                | $\geq 0.5$                  | Pass    |
| NVNT      | n40  | 2437            | Ant0    | 33.842                | $\geq 0.5$                  | Pass    |
| NVNT      | n40  | 2452            | Ant0    | 35.076                | $\geq 0.5$                  | Pass    |



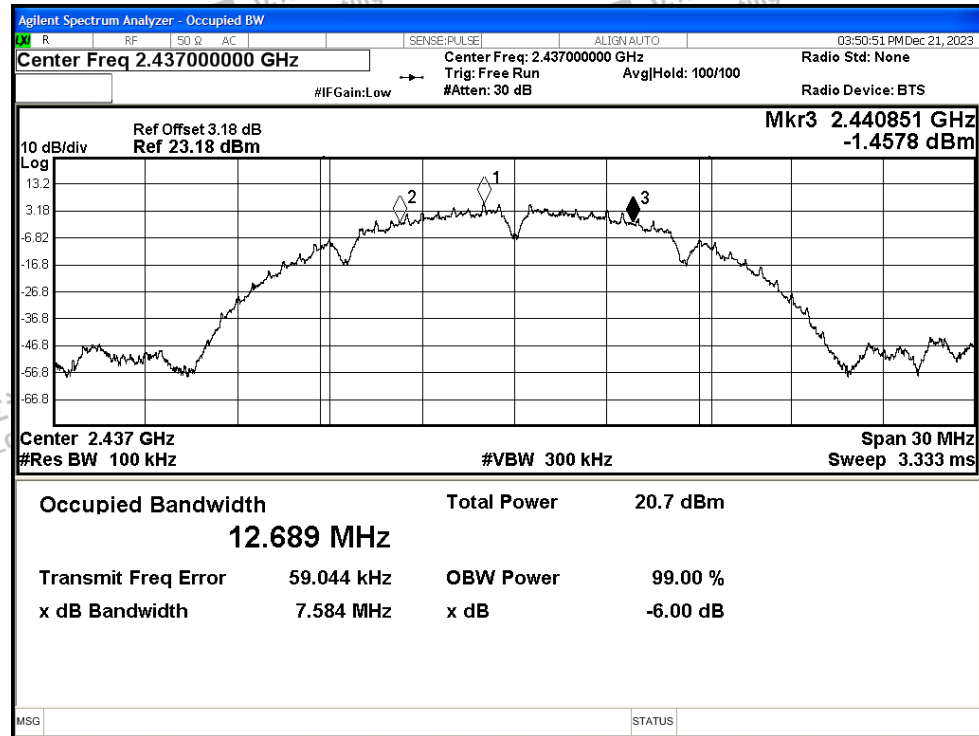


## Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant0

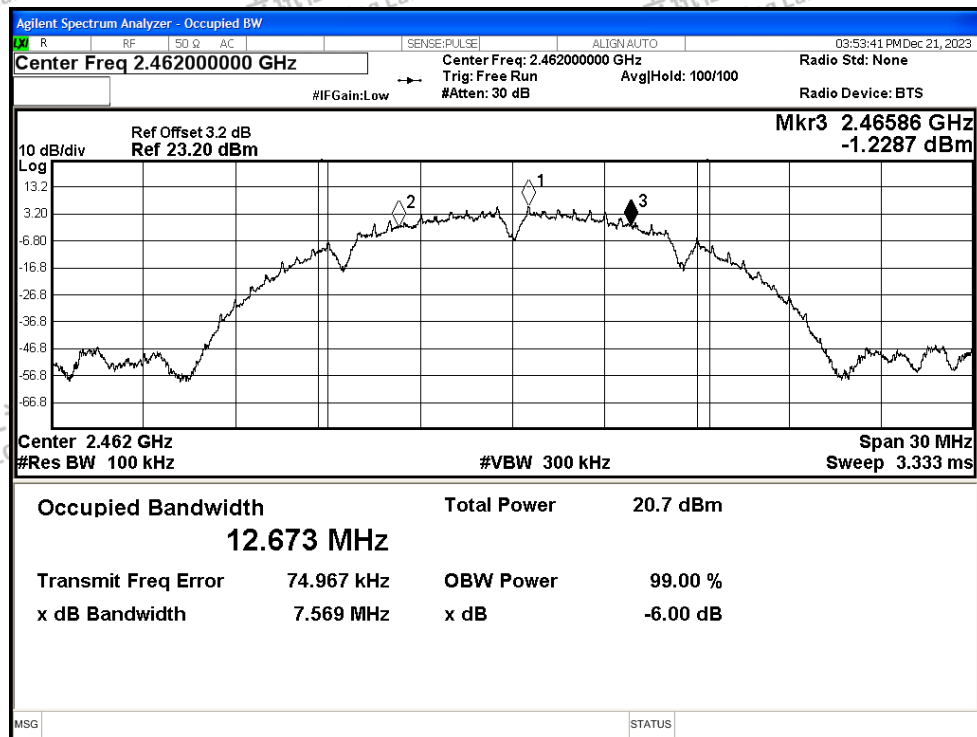


-6dB Bandwidth NVNT b 2437MHz Ant0

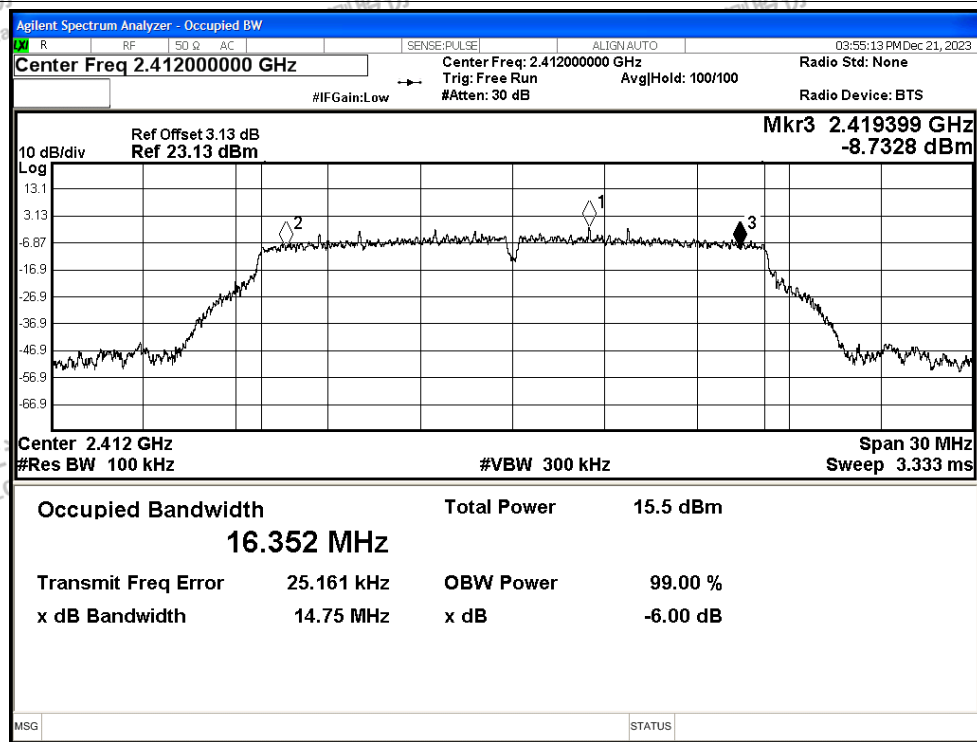




## -6dB Bandwidth NVNT b 2462MHz Ant0



## -6dB Bandwidth NVNT g 2412MHz Ant0



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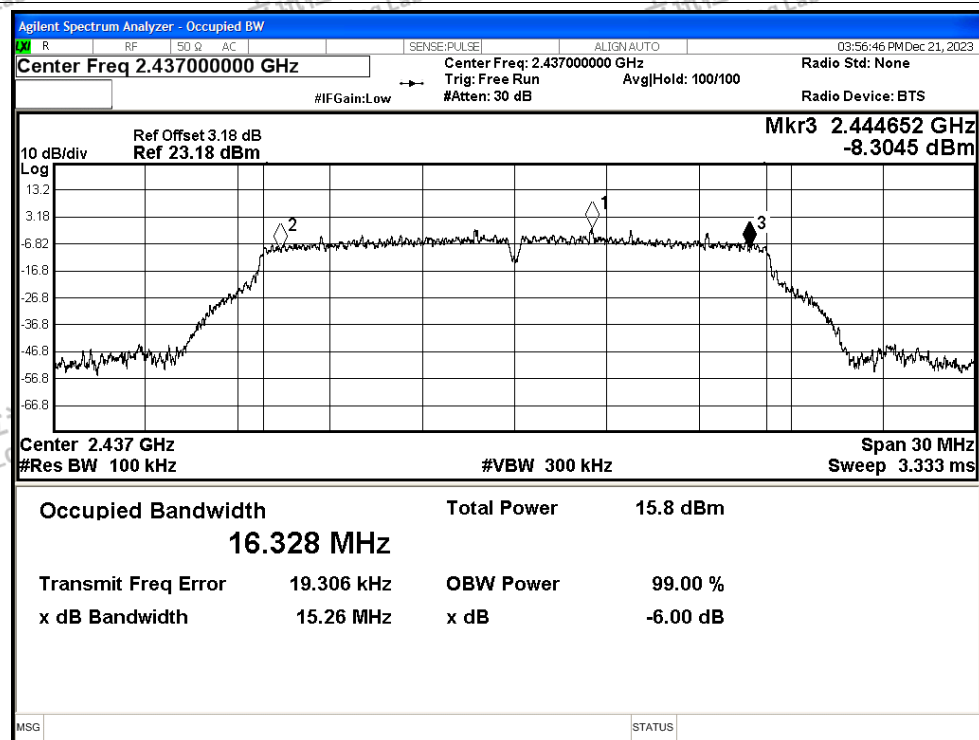
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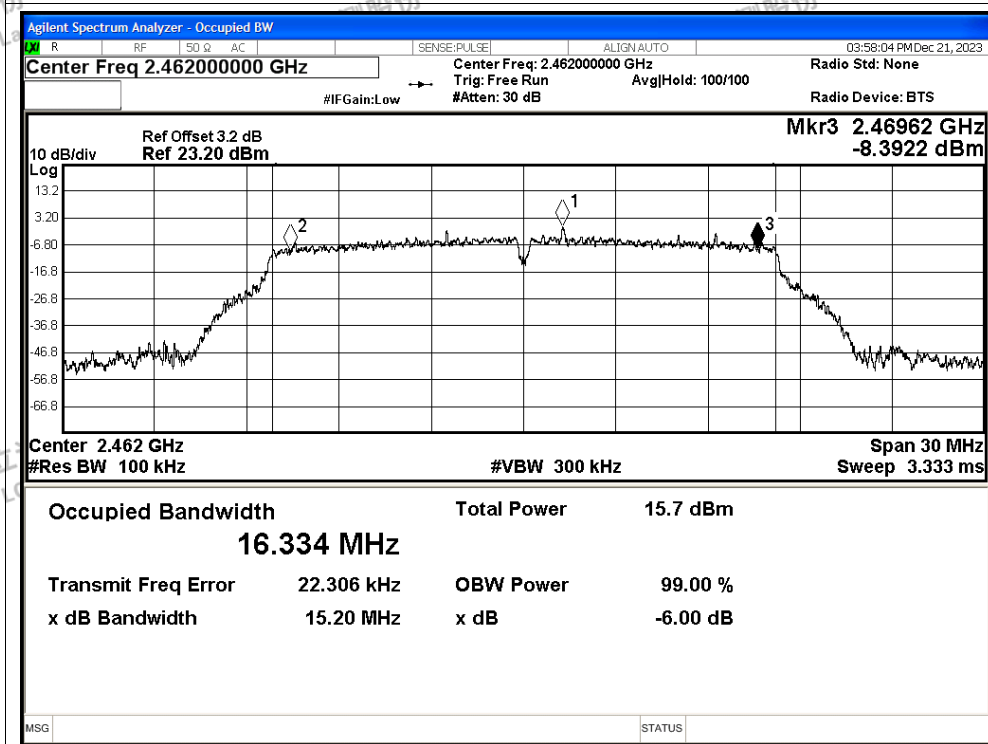
Scan code to check authenticity



-6dB Bandwidth NVNT g 2437MHz Ant0

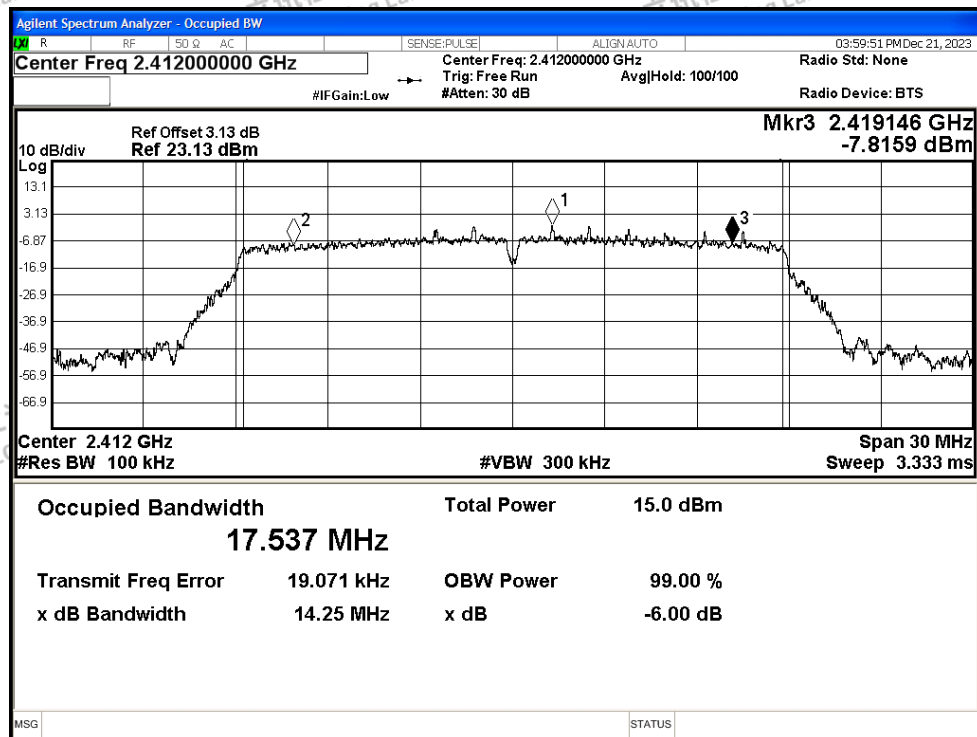


-6dB Bandwidth NVNT g 2462MHz Ant0

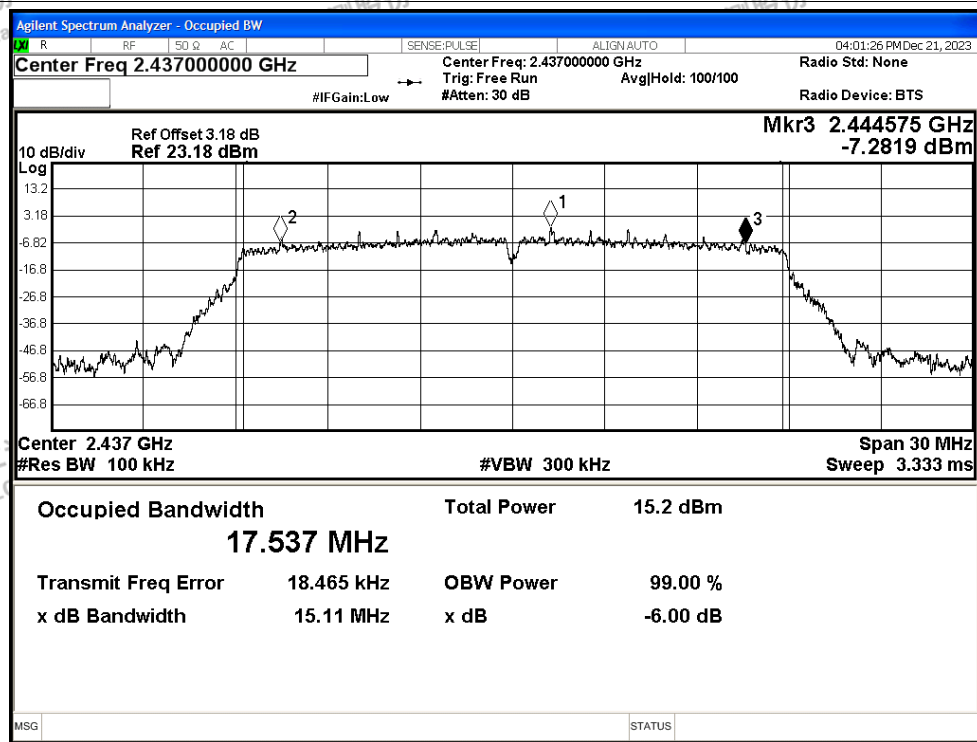




-6dB Bandwidth NVNT n20 2412MHz Ant0

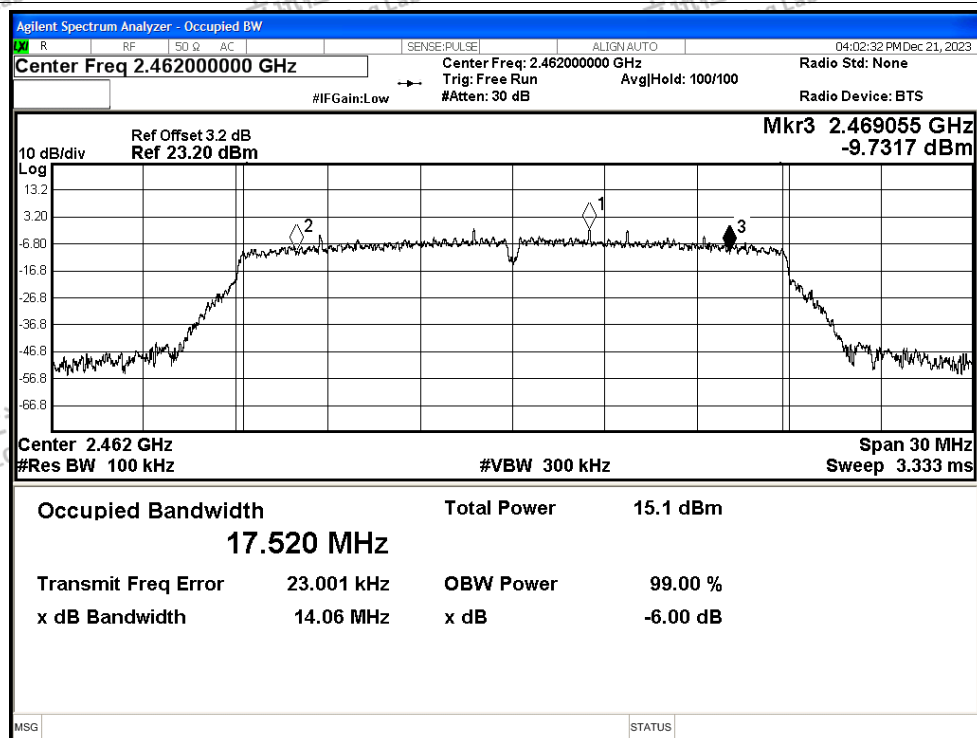


-6dB Bandwidth NVNT n20 2437MHz Ant0

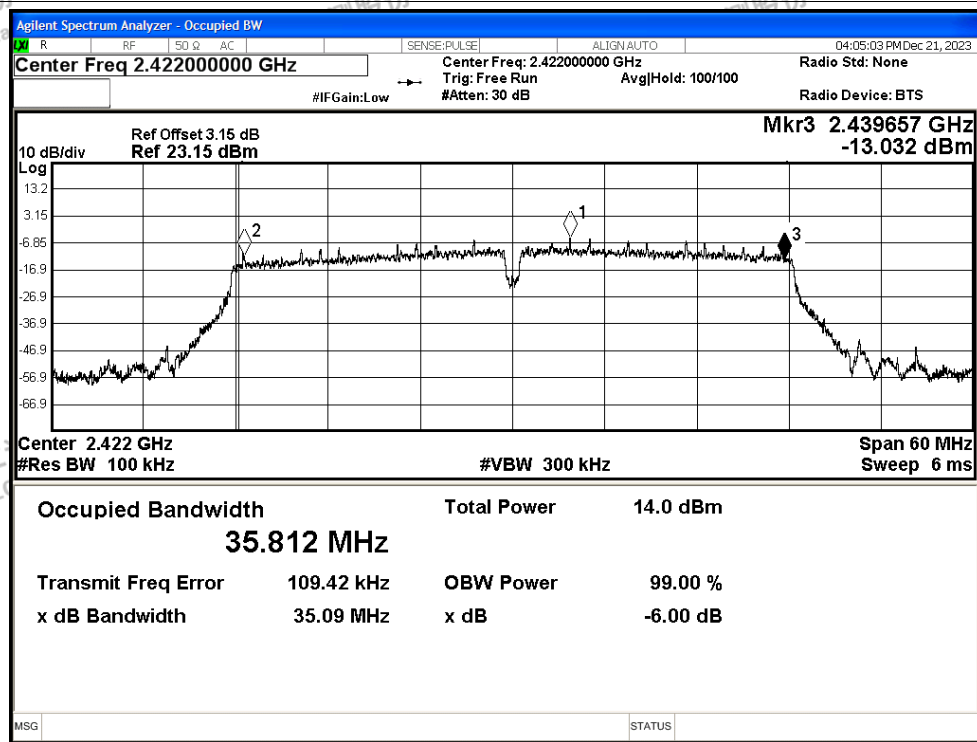




-6dB Bandwidth NVNT n20 2462MHz Ant0



-6dB Bandwidth NVNT n40 2422MHz Ant0



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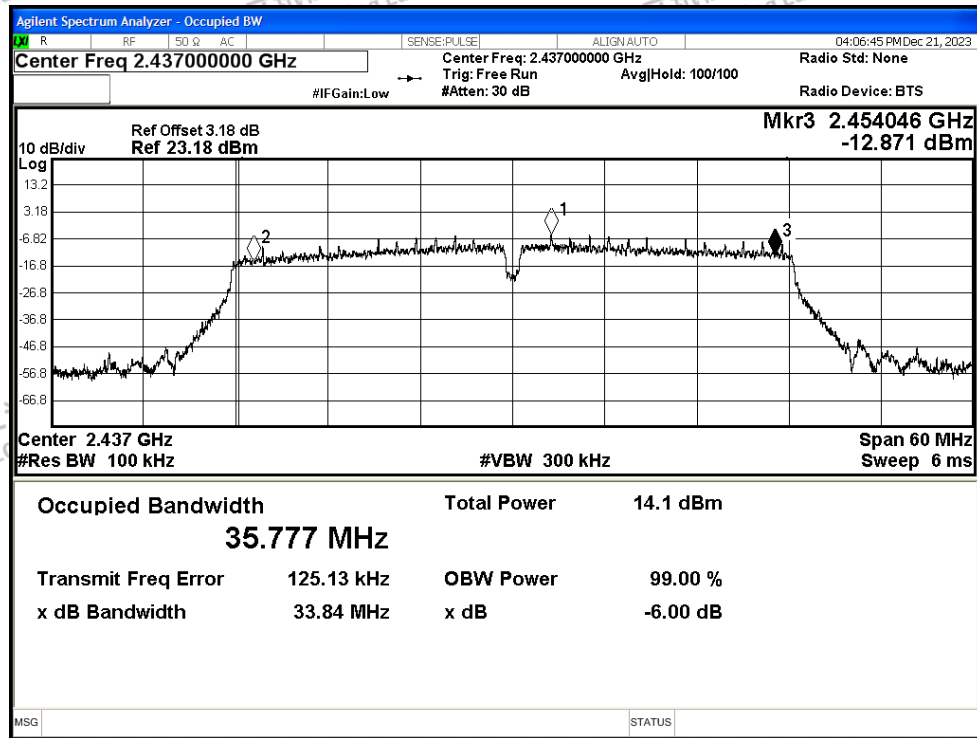
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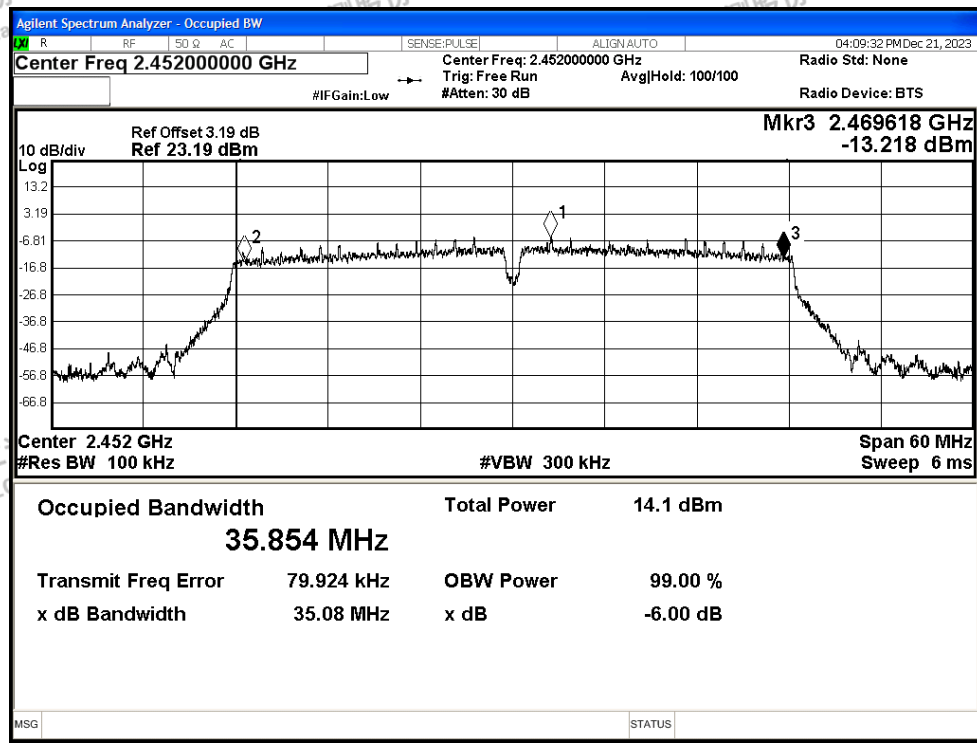




-6dB Bandwidth NVNT n40 2437MHz Ant0



-6dB Bandwidth NVNT n40 2452MHz Ant0







| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | b    | 2412            | Ant1    | 7.552                 | $\geq 0.5$                  | Pass    |
| NVNT      | b    | 2437            | Ant1    | 7.513                 | $\geq 0.5$                  | Pass    |
| NVNT      | b    | 2462            | Ant1    | 8.026                 | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2412            | Ant1    | 15.482                | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2437            | Ant1    | 15.664                | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2462            | Ant1    | 15.369                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 15.644                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 16.009                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 15.041                | $\geq 0.5$                  | Pass    |
| NVNT      | n40  | 2422            | Ant1    | 33.834                | $\geq 0.5$                  | Pass    |
| NVNT      | n40  | 2437            | Ant1    | 30.106                | $\geq 0.5$                  | Pass    |
| NVNT      | n40  | 2452            | Ant1    | 35.005                | $\geq 0.5$                  | Pass    |

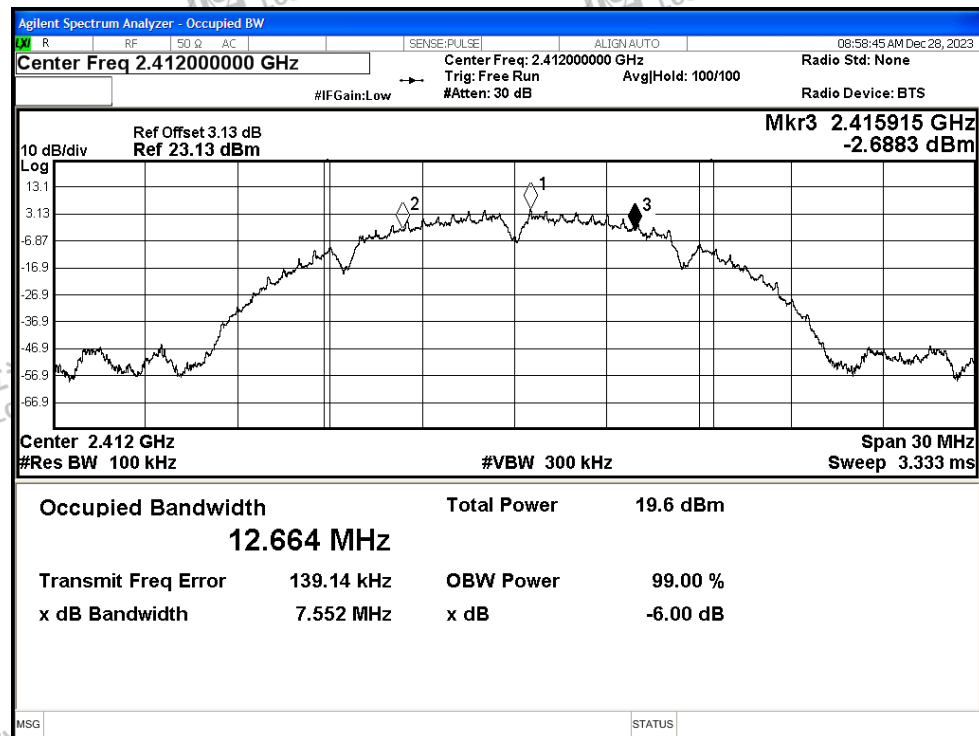


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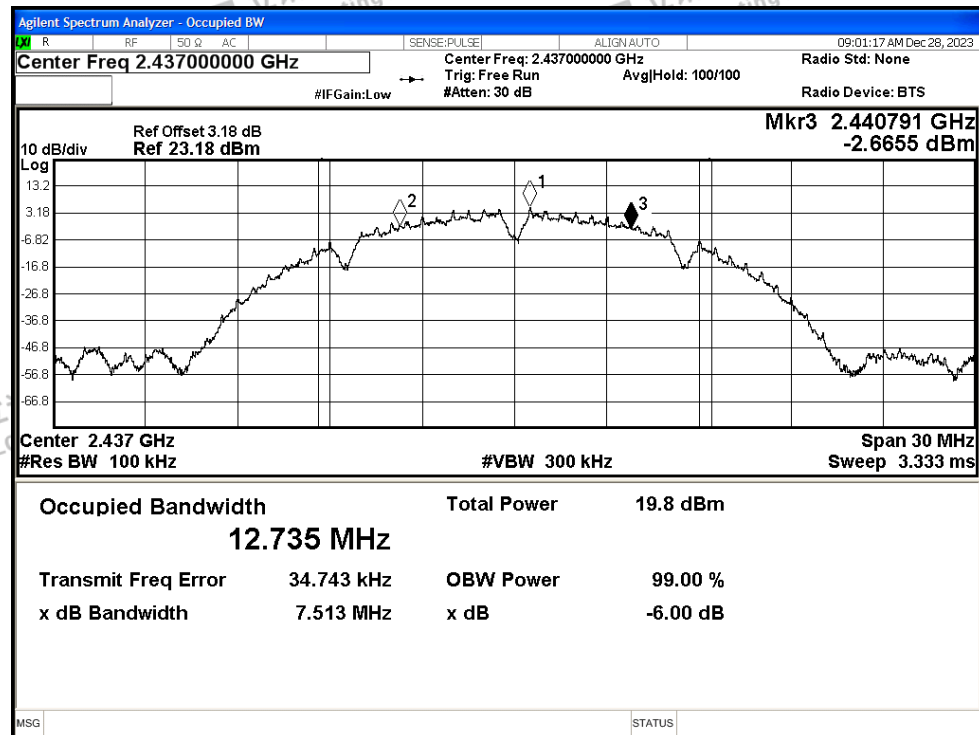


## Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1



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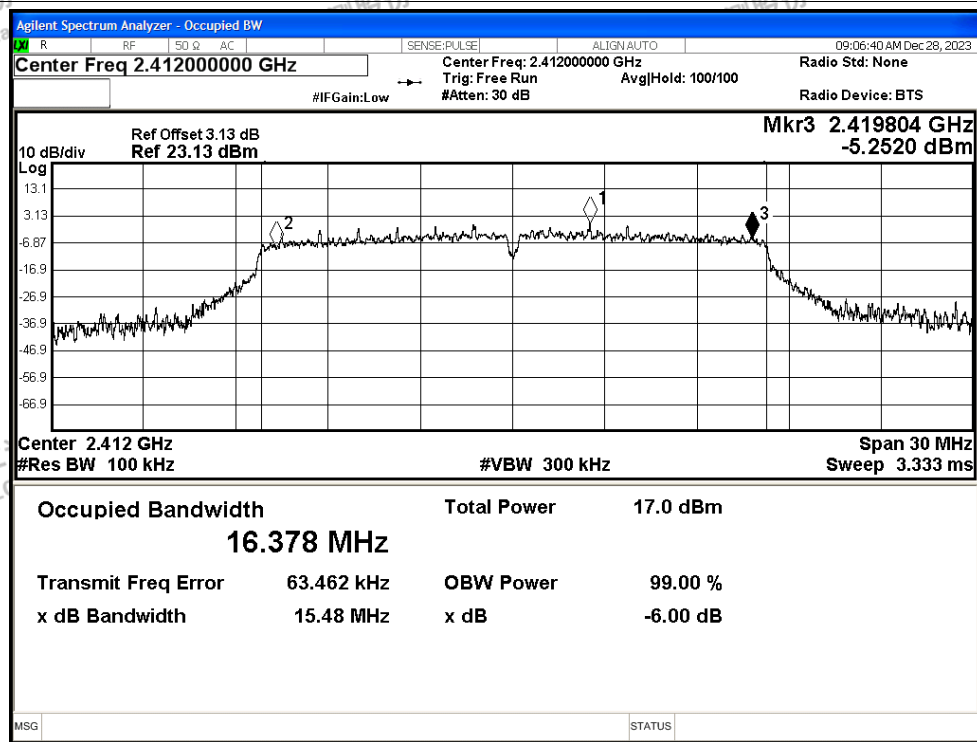
Scan code to check authenticity



## -6dB Bandwidth NVNT b 2462MHz Ant1



## -6dB Bandwidth NVNT g 2412MHz Ant1



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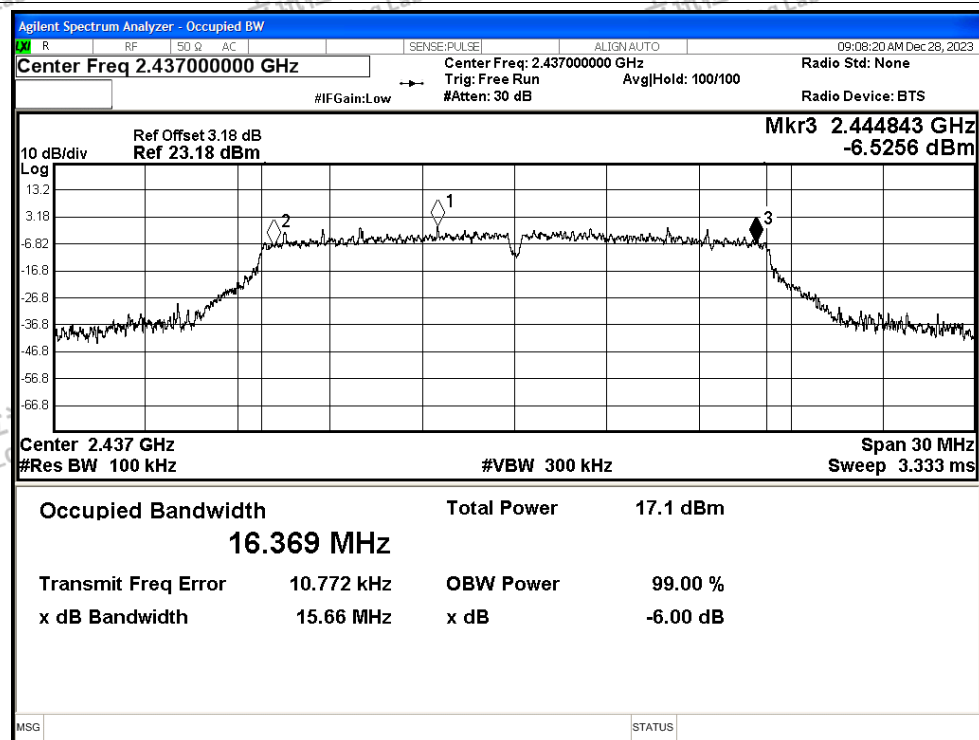
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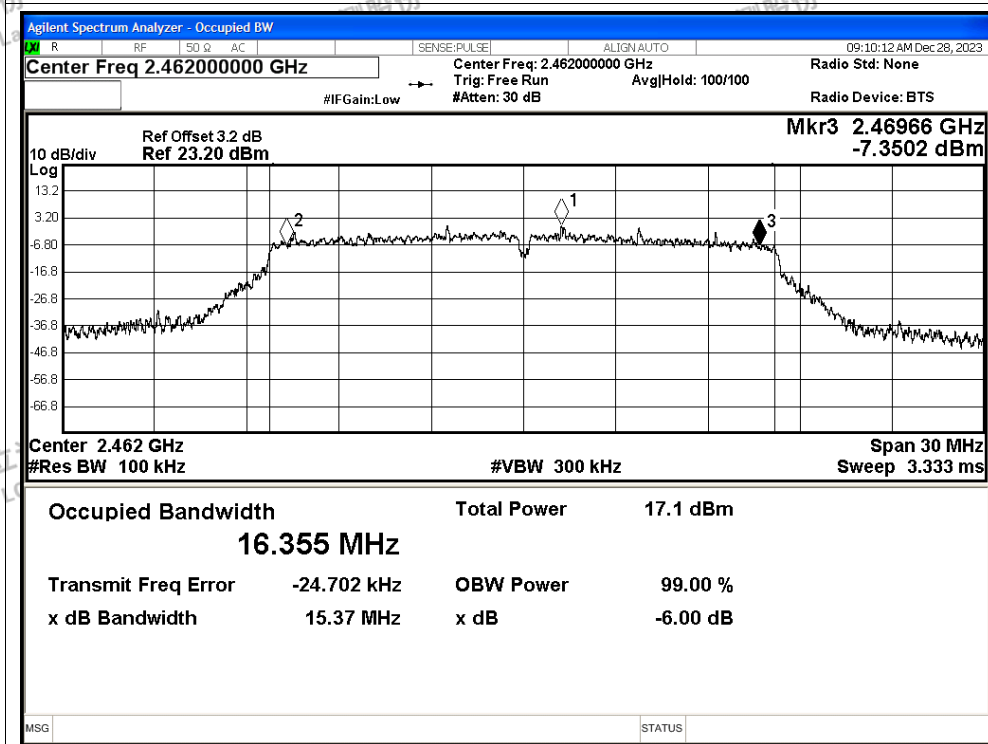
Scan code to check authenticity



-6dB Bandwidth NVNT g 2437MHz Ant1

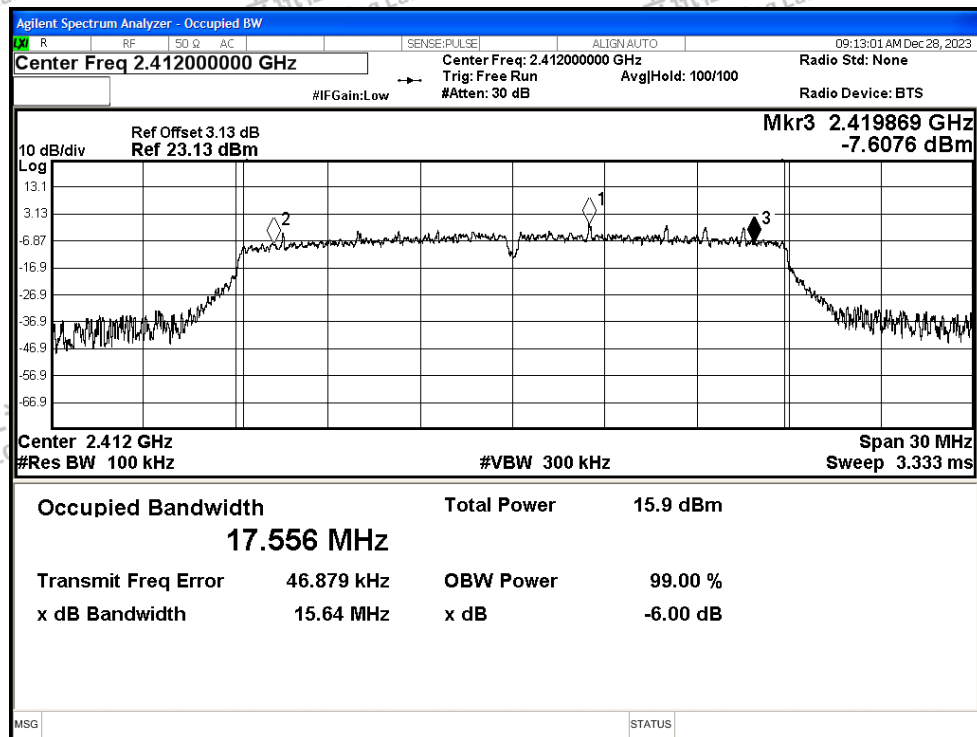


-6dB Bandwidth NVNT g 2462MHz Ant1

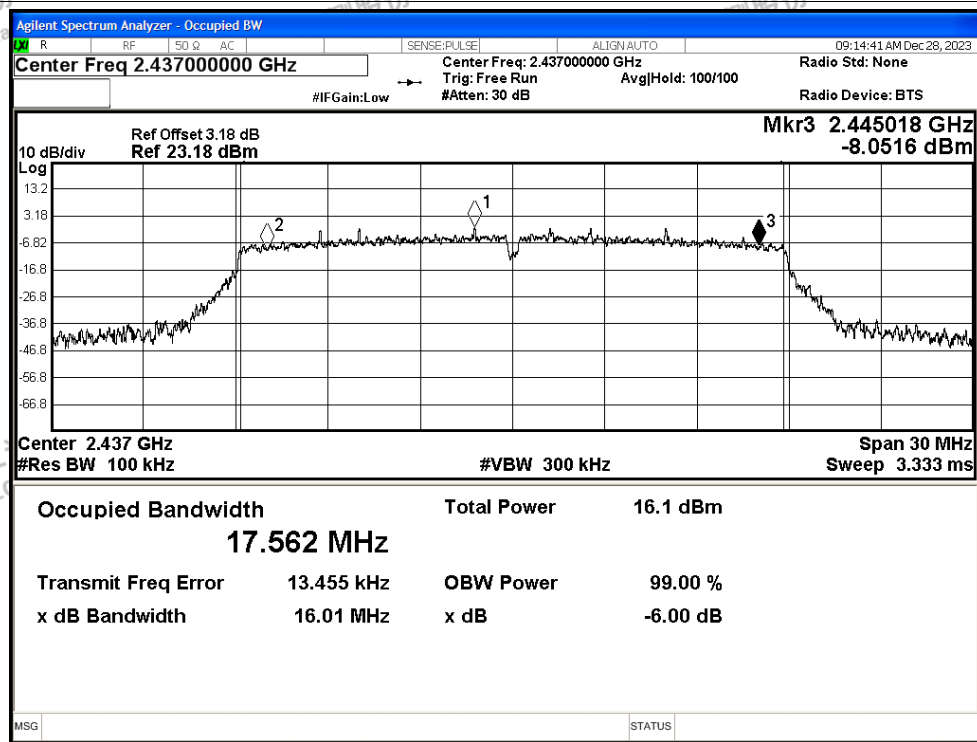




-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1



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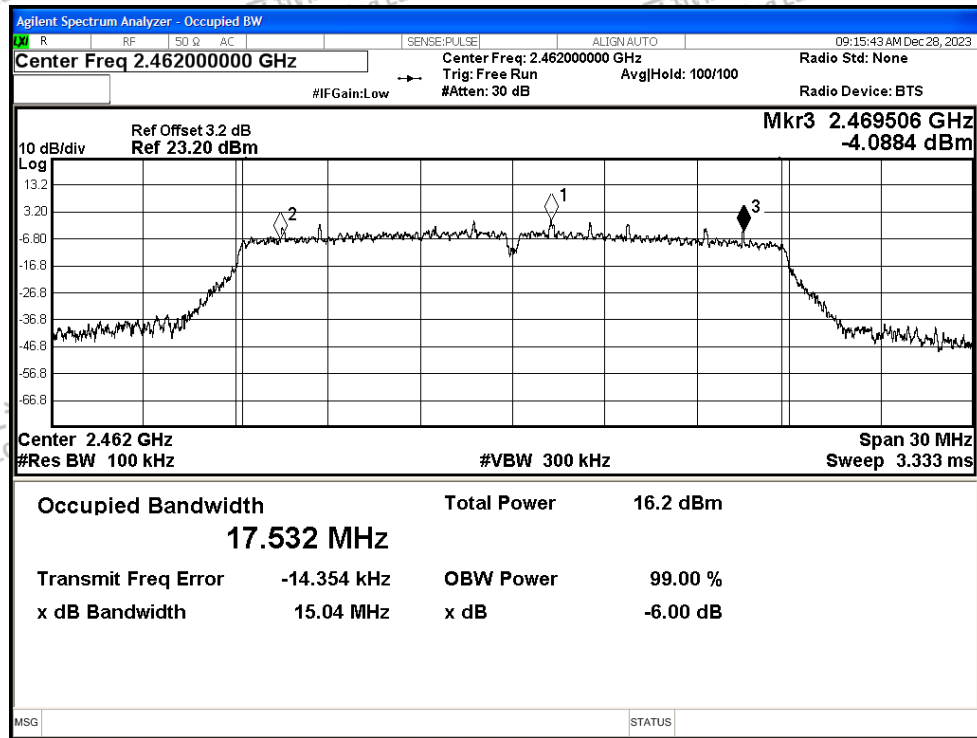
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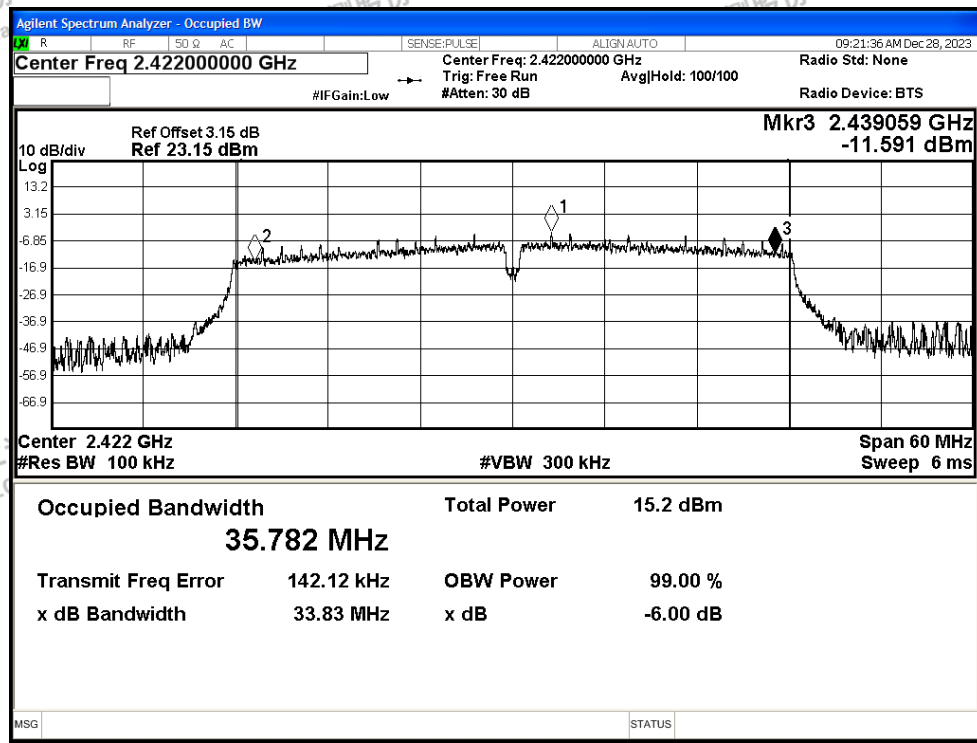
Scan code to check authenticity



-6dB Bandwidth NVNT n20 2462MHz Ant1

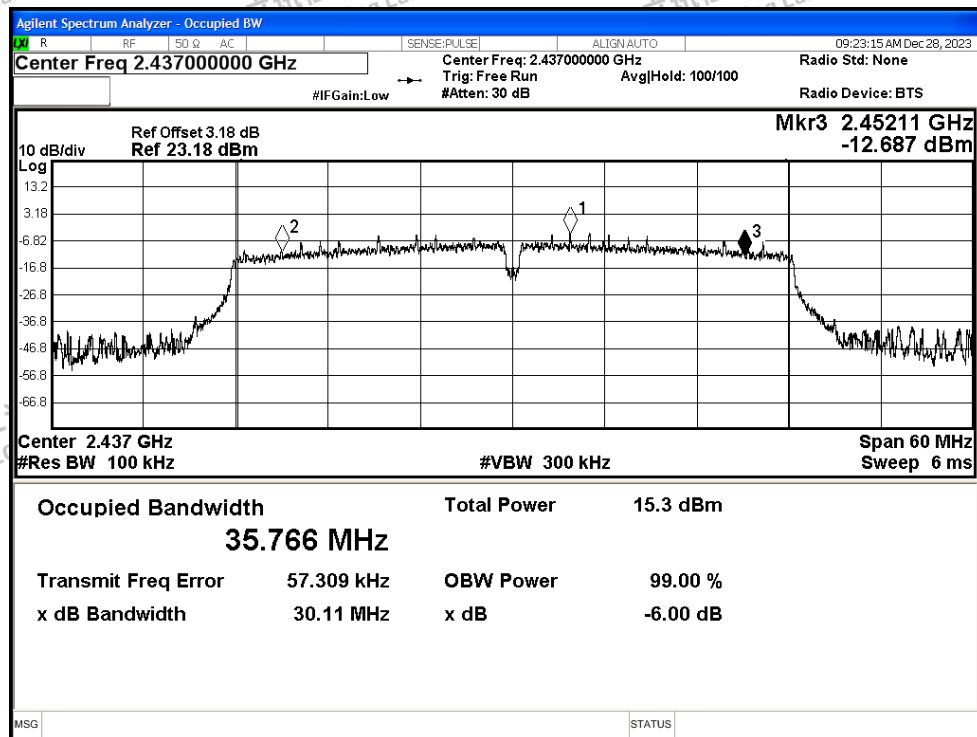


-6dB Bandwidth NVNT n40 2422MHz Ant1

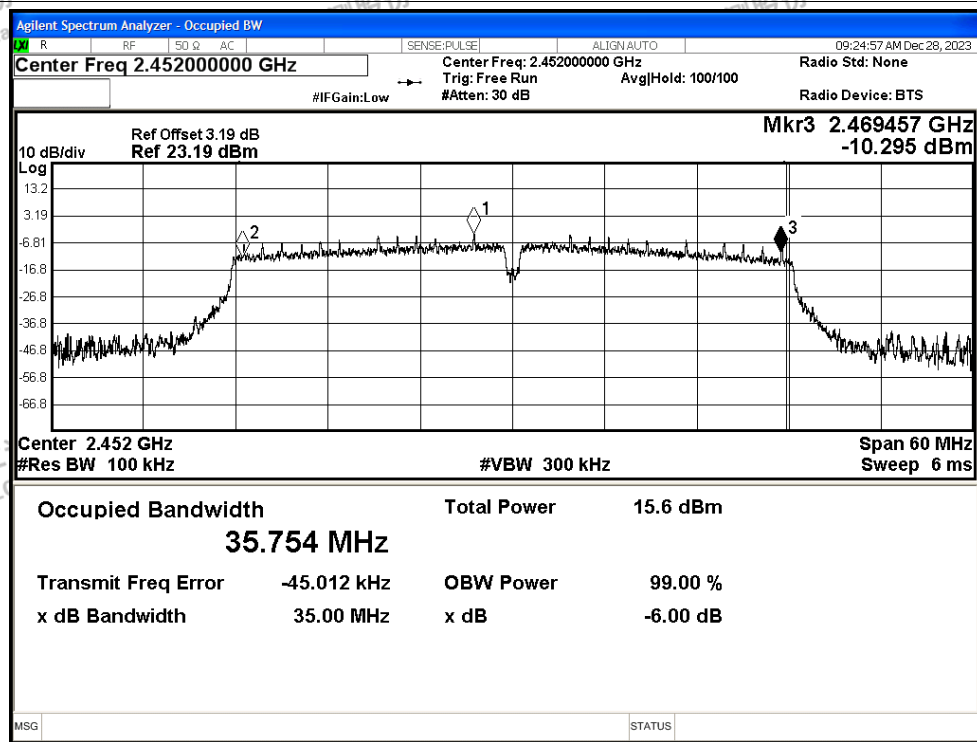




-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1



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## C.2 Maximum Peak Conducted Output Power

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-------------|---------|
| NVNT      | b    | 2412            | Ant0    | 15.36                 | 30          | Pass    |
| NVNT      | b    | 2437            | Ant0    | 15.64                 | 30          | Pass    |
| NVNT      | b    | 2462            | Ant0    | 15.7                  | 30          | Pass    |
| NVNT      | g    | 2412            | Ant0    | 14.26                 | 30          | Pass    |
| NVNT      | g    | 2437            | Ant0    | 14.53                 | 30          | Pass    |
| NVNT      | g    | 2462            | Ant0    | 14.54                 | 30          | Pass    |
| NVNT      | n20  | 2412            | Ant0    | 13.59                 | 30          | Pass    |
| NVNT      | n20  | 2437            | Ant0    | 13.91                 | 30          | Pass    |
| NVNT      | n20  | 2462            | Ant0    | 13.8                  | 30          | Pass    |
| NVNT      | n40  | 2422            | Ant0    | 12.45                 | 30          | Pass    |
| NVNT      | n40  | 2437            | Ant0    | 12.55                 | 30          | Pass    |
| NVNT      | n40  | 2452            | Ant0    | 12.49                 | 30          | Pass    |

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | 14.51                 | 30          | Pass    |
| NVNT      | b    | 2437            | Ant1    | 14.8                  | 30          | Pass    |
| NVNT      | b    | 2462            | Ant1    | 15.55                 | 30          | Pass    |
| NVNT      | g    | 2412            | Ant1    | 15.72                 | 30          | Pass    |
| NVNT      | g    | 2437            | Ant1    | 15.71                 | 30          | Pass    |
| NVNT      | g    | 2462            | Ant1    | 15.88                 | 30          | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 14.55                 | 30          | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 14.85                 | 30          | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 14.61                 | 30          | Pass    |
| NVNT      | n40  | 2422            | Ant1    | 13.65                 | 30          | Pass    |
| NVNT      | n40  | 2437            | Ant1    | 13.83                 | 30          | Pass    |
| NVNT      | n40  | 2452            | Ant1    | 14.01                 | 30          | Pass    |

### MIMO

| Condition | Mode | Frequency (MHz) | Conducted Power (dBm) |       |           | Limit (dBm) | Verdict |
|-----------|------|-----------------|-----------------------|-------|-----------|-------------|---------|
|           |      |                 | Ant0                  | Ant1  | Ant0+Ant1 |             |         |
| NVNT      | n20  | 2412            | 13.59                 | 14.55 | 17.11     | 30          | Pass    |
| NVNT      | n20  | 2437            | 13.91                 | 14.85 | 17.42     | 30          | Pass    |
| NVNT      | n20  | 2462            | 13.8                  | 14.61 | 17.23     | 30          | Pass    |
| NVNT      | n40  | 2422            | 12.45                 | 13.65 | 16.10     | 30          | Pass    |
| NVNT      | n40  | 2437            | 12.55                 | 13.83 | 16.25     | 30          | Pass    |
| NVNT      | n40  | 2452            | 12.49                 | 14.01 | 16.33     | 30          | Pass    |



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### C.3 Maximum Power Spectral Density Level

| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|-----------|------|-----------------|---------|--------------------------|------------------|---------|
| NVNT      | b    | 2412            | Ant0    | -7.62                    | 8                | Pass    |
| NVNT      | b    | 2437            | Ant0    | -8.54                    | 8                | Pass    |
| NVNT      | b    | 2462            | Ant0    | -8.35                    | 8                | Pass    |
| NVNT      | g    | 2412            | Ant0    | -14.89                   | 8                | Pass    |
| NVNT      | g    | 2437            | Ant0    | -13.53                   | 8                | Pass    |
| NVNT      | g    | 2462            | Ant0    | -15.47                   | 8                | Pass    |
| NVNT      | n20  | 2412            | Ant0    | -16.12                   | 8                | Pass    |
| NVNT      | n20  | 2437            | Ant0    | -15.55                   | 8                | Pass    |
| NVNT      | n20  | 2462            | Ant0    | -16.13                   | 8                | Pass    |
| NVNT      | n40  | 2422            | Ant0    | -19.69                   | 8                | Pass    |
| NVNT      | n40  | 2437            | Ant0    | -18.9                    | 8                | Pass    |
| NVNT      | n40  | 2452            | Ant0    | -19.76                   | 8                | Pass    |

| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|-----------|------|-----------------|---------|--------------------------|------------------|---------|
| NVNT      | b    | 2412            | Ant1    | -8.45                    | 8                | Pass    |
| NVNT      | b    | 2437            | Ant1    | -9.54                    | 8                | Pass    |
| NVNT      | b    | 2462            | Ant1    | -8.76                    | 8                | Pass    |
| NVNT      | g    | 2412            | Ant1    | -14.33                   | 8                | Pass    |
| NVNT      | g    | 2437            | Ant1    | -13.53                   | 8                | Pass    |
| NVNT      | g    | 2462            | Ant1    | -12.9                    | 8                | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -15                      | 8                | Pass    |
| NVNT      | n20  | 2437            | Ant1    | -14.91                   | 8                | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -15.18                   | 8                | Pass    |
| NVNT      | n40  | 2422            | Ant1    | -18.37                   | 8                | Pass    |
| NVNT      | n40  | 2437            | Ant1    | -18.91                   | 8                | Pass    |
| NVNT      | n40  | 2452            | Ant1    | -17.74                   | 8                | Pass    |

#### MIMO

| Condition | Mode | Frequency (MHz) | Conducted PSD (dBm/3kHz) |        |           | Limit (dBm) | Verdict |
|-----------|------|-----------------|--------------------------|--------|-----------|-------------|---------|
|           |      |                 | Ant0                     | Ant1   | Ant0+Ant1 |             |         |
| NVNT      | n20  | 2412            | -16.12                   | -15    | -12.51    | 8           | Pass    |
| NVNT      | n20  | 2437            | -15.55                   | -14.91 | -12.21    | 8           | Pass    |
| NVNT      | n20  | 2462            | -16.13                   | -15.18 | -12.62    | 8           | Pass    |
| NVNT      | n40  | 2422            | -19.69                   | -18.37 | -15.97    | 8           | Pass    |
| NVNT      | n40  | 2437            | -18.9                    | -18.91 | -15.89    | 8           | Pass    |
| NVNT      | n40  | 2452            | -19.76                   | -17.74 | -15.62    | 8           | Pass    |

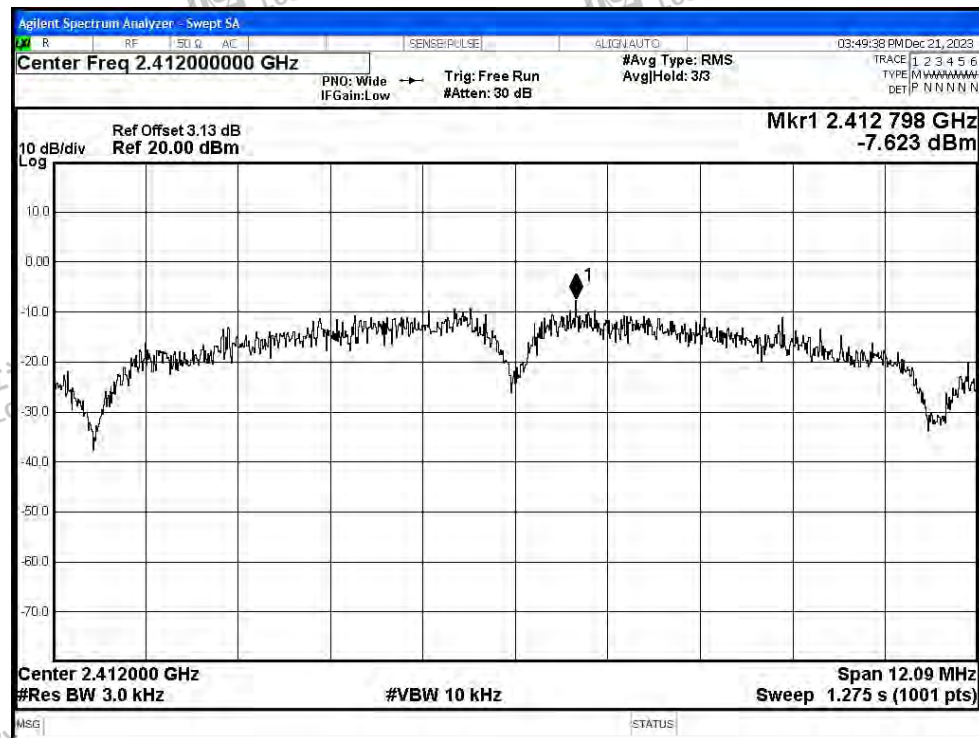


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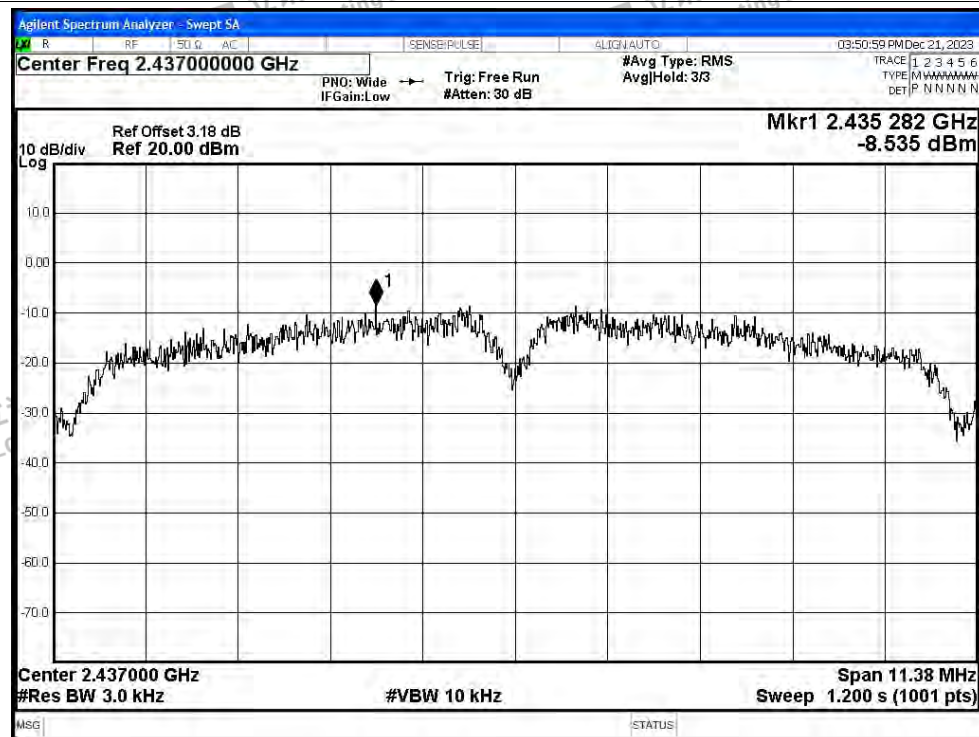


## Test Graphs

PSD NVNT b 2412MHz Ant0

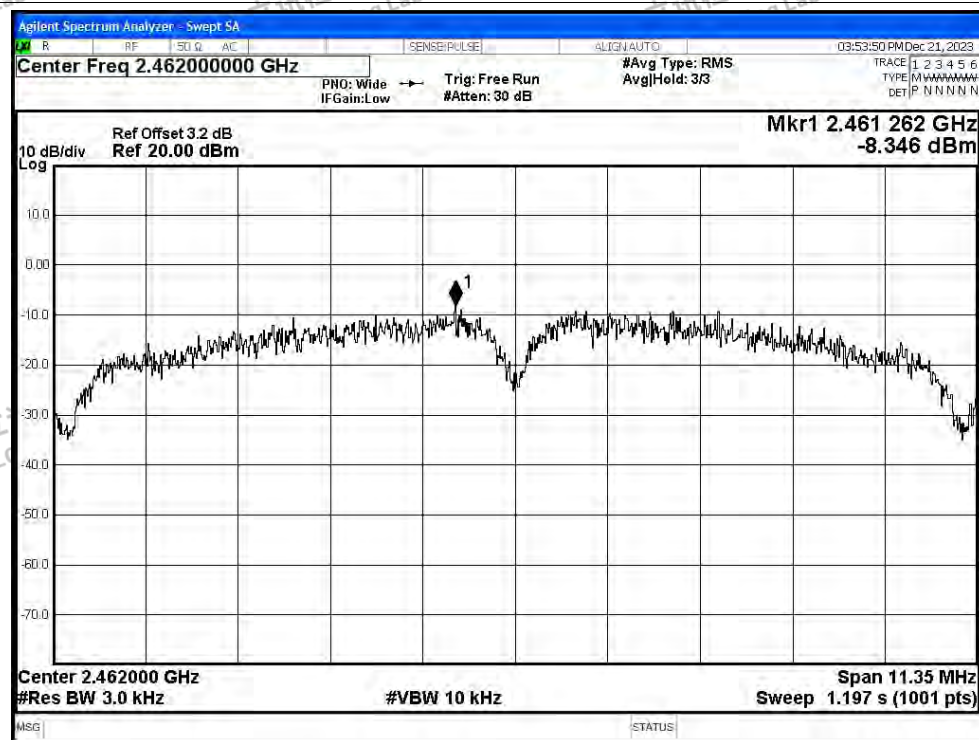


PSD NVNT b 2437MHz Ant0

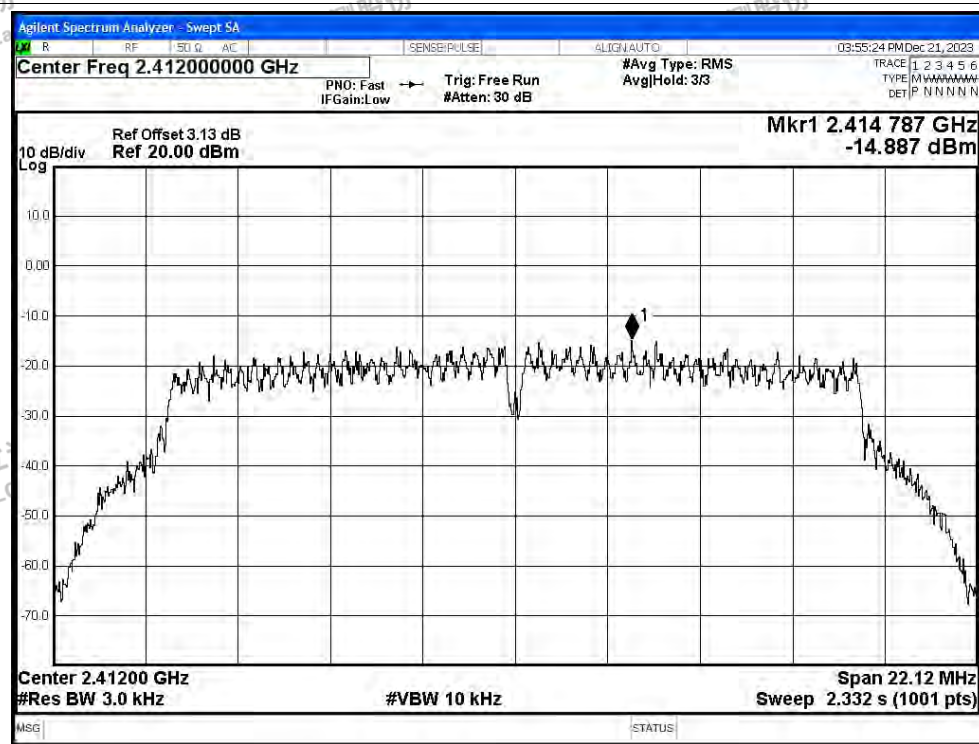




## PSD NVNT b 2462MHz Ant0



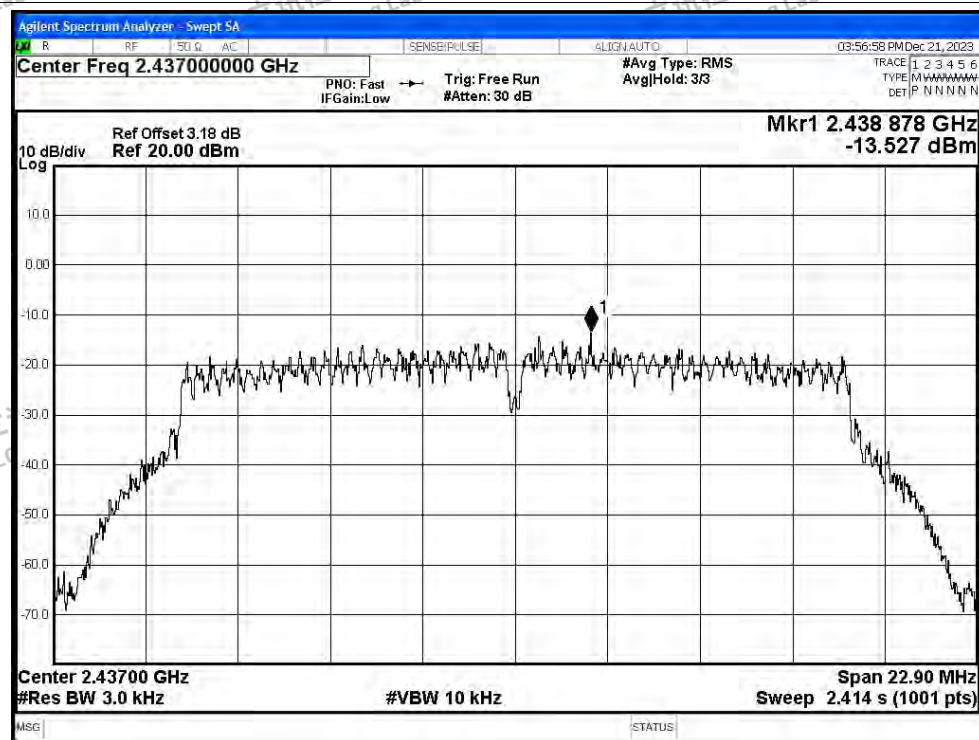
## PSD NVNT g 2412MHz Ant0



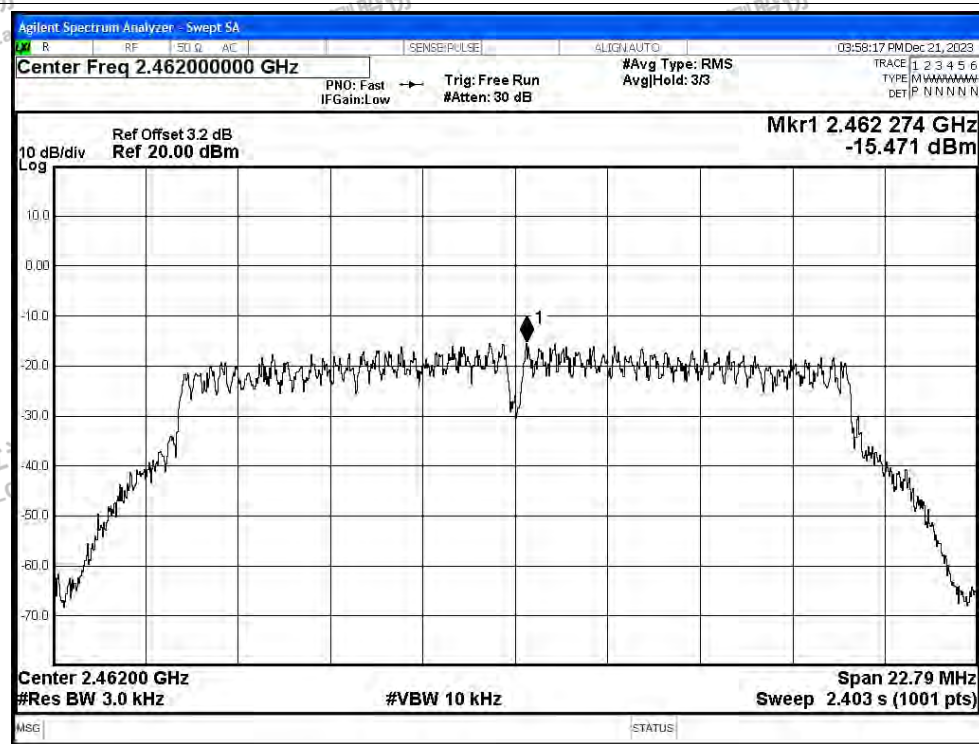




## PSD NVNT g 2437MHz Ant0

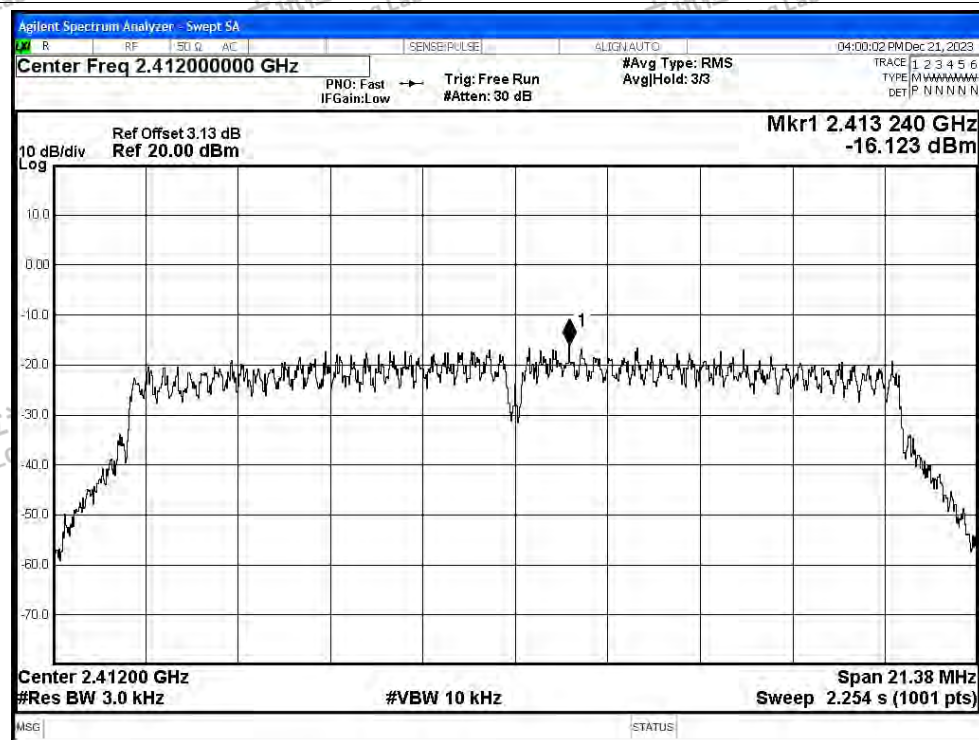


## PSD NVNT g 2462MHz Ant0

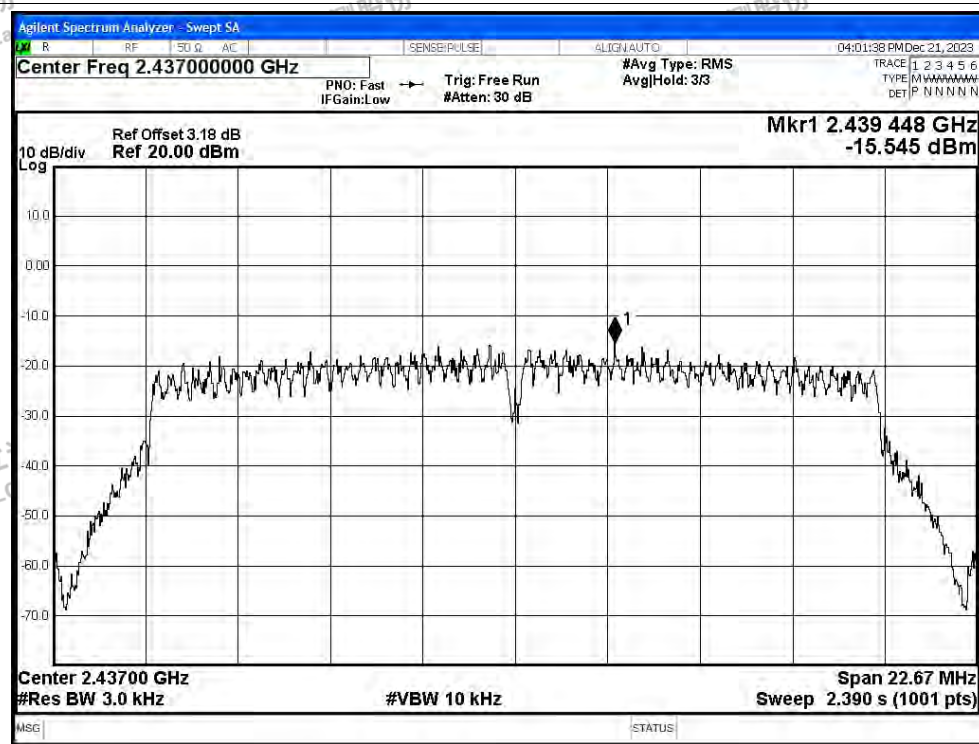




PSD NVNT n20 2412MHz Ant0

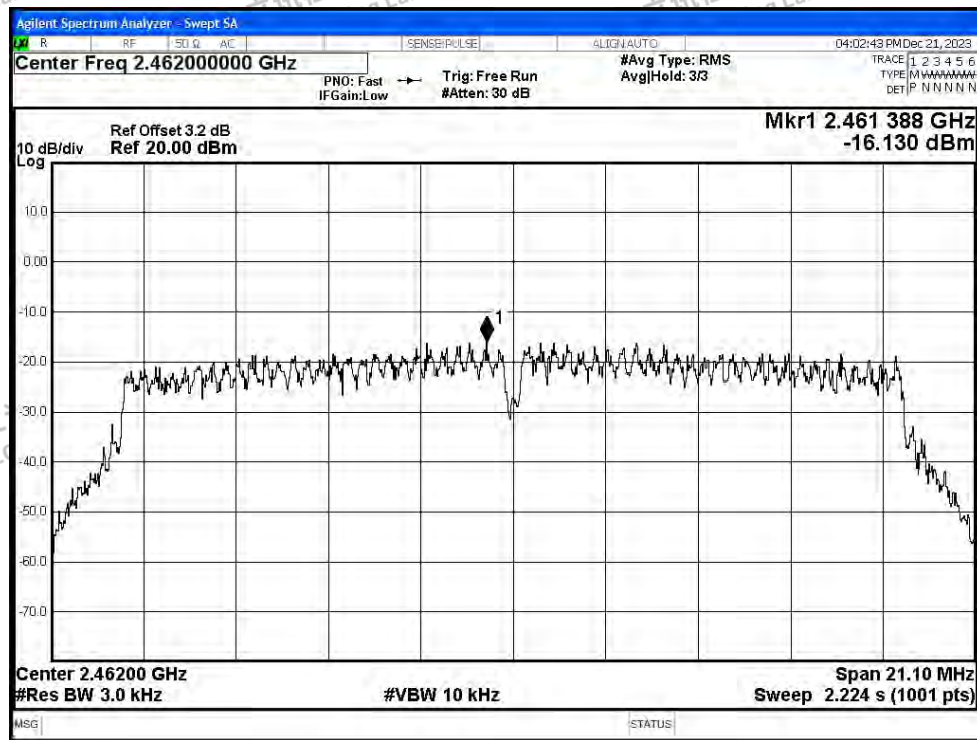


PSD NVNT n20 2437MHz Ant0

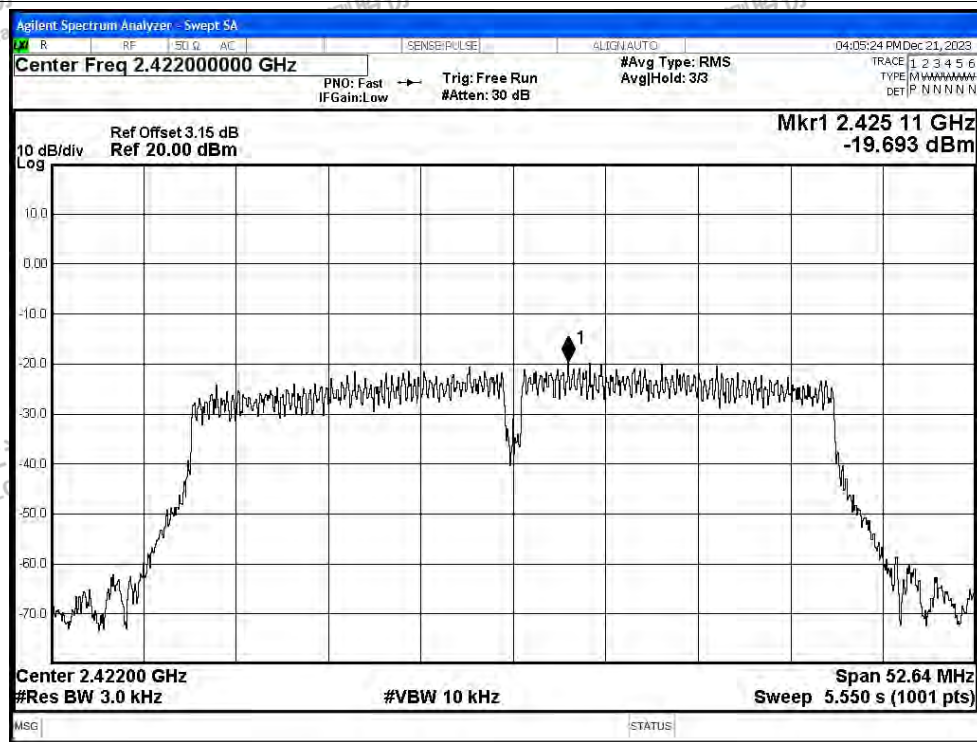




PSD NVNT n20 2462MHz Ant0



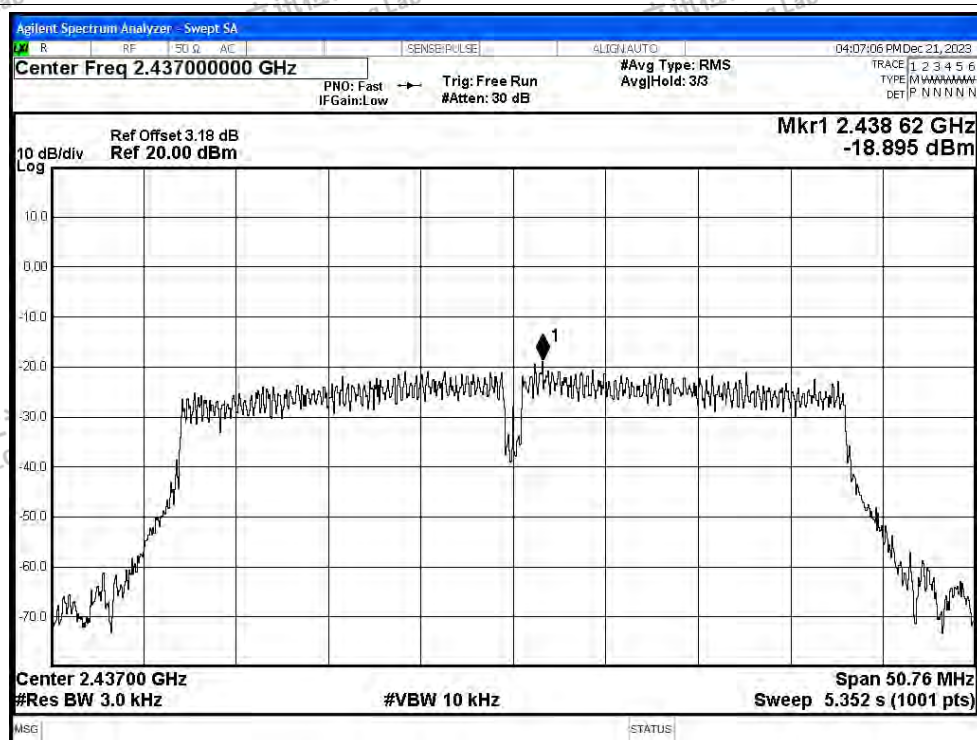
PSD NVNT n40 2422MHz Ant0



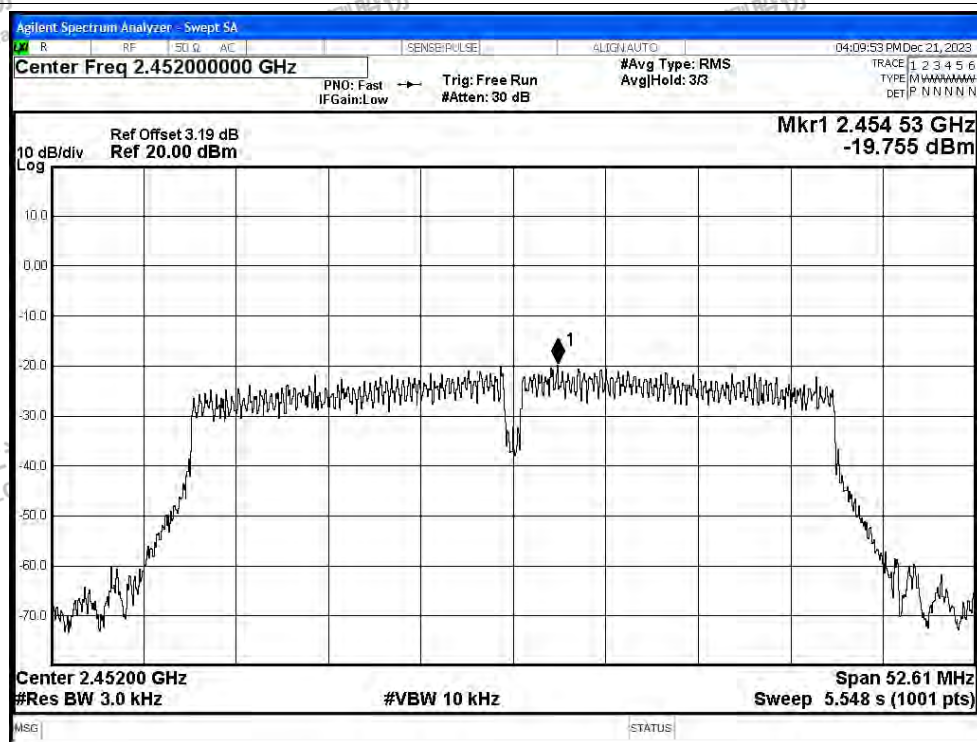




PSD NVNT n40 2437MHz Ant0



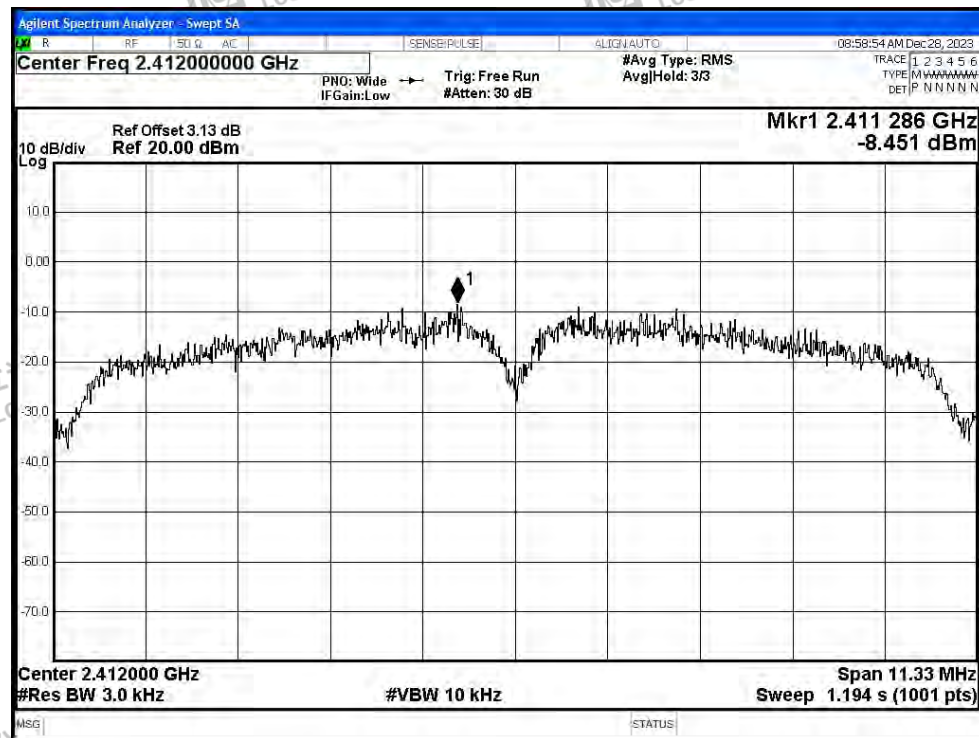
PSD NVNT n40 2452MHz Ant0



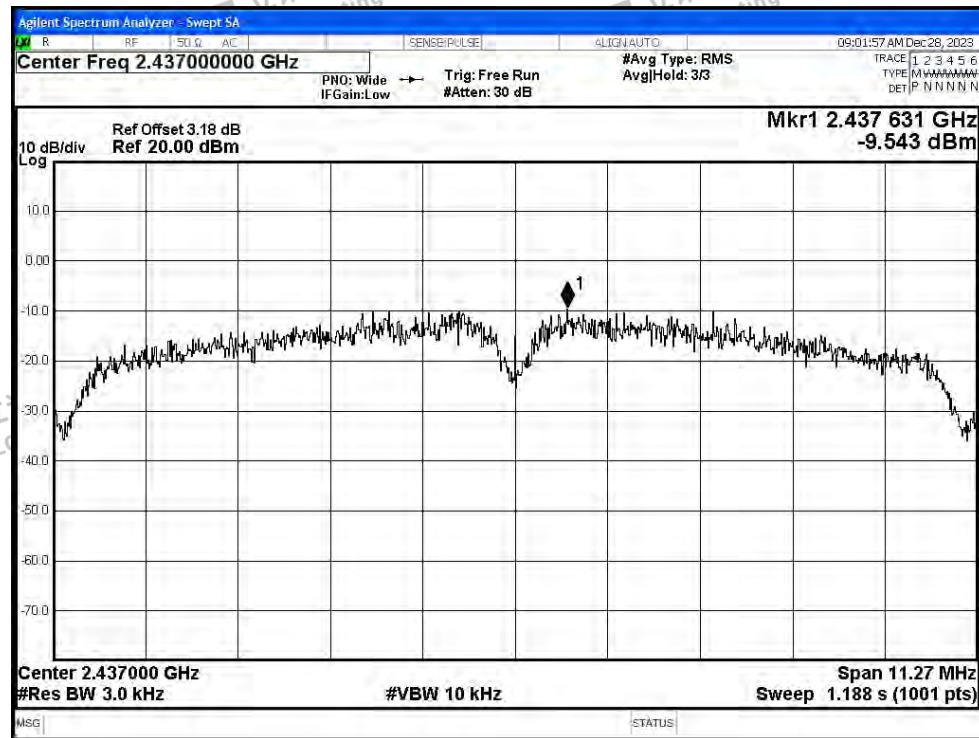


## Test Graphs

PSD NVNT b 2412MHz Ant1

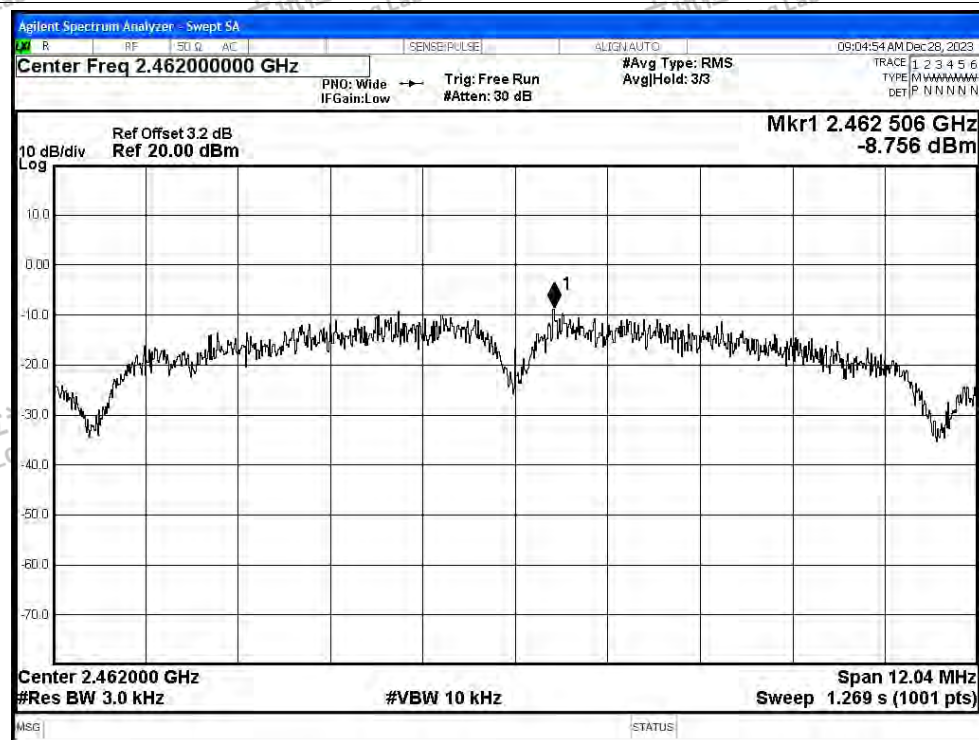


PSD NVNT b 2437MHz Ant1

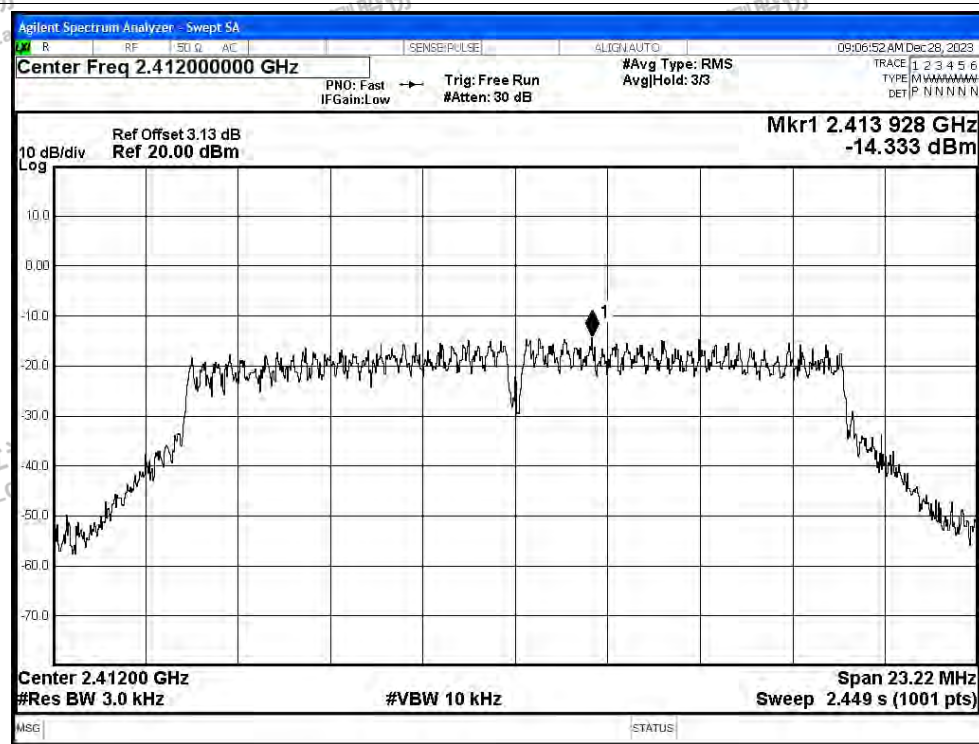




PSD NVNT b 2462MHz Ant1



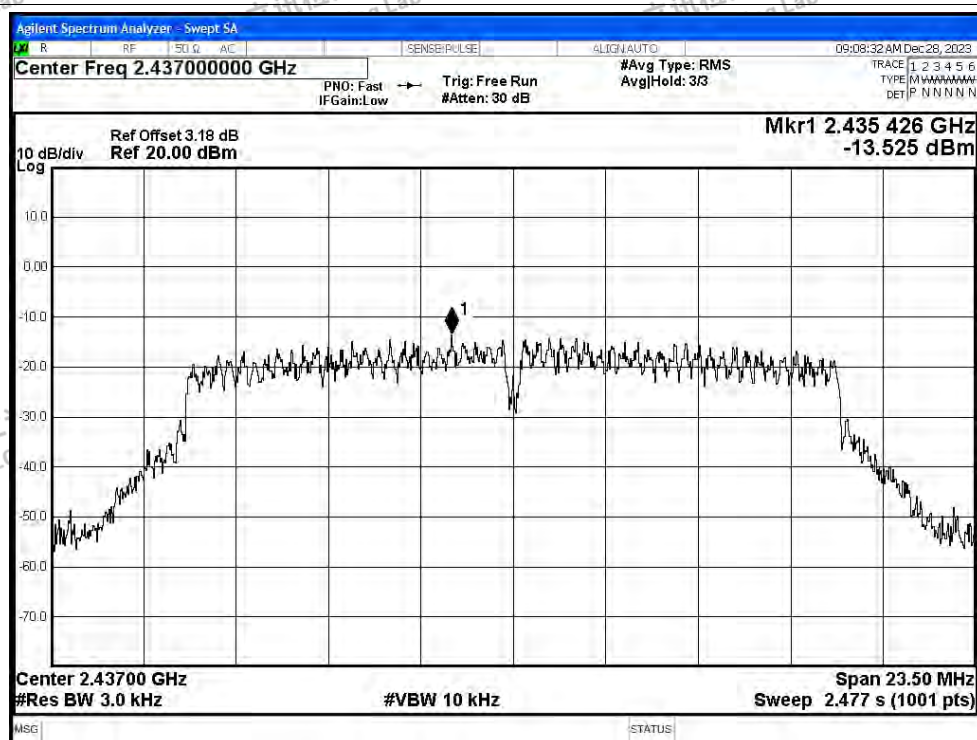
PSD NVNT g 2412MHz Ant1



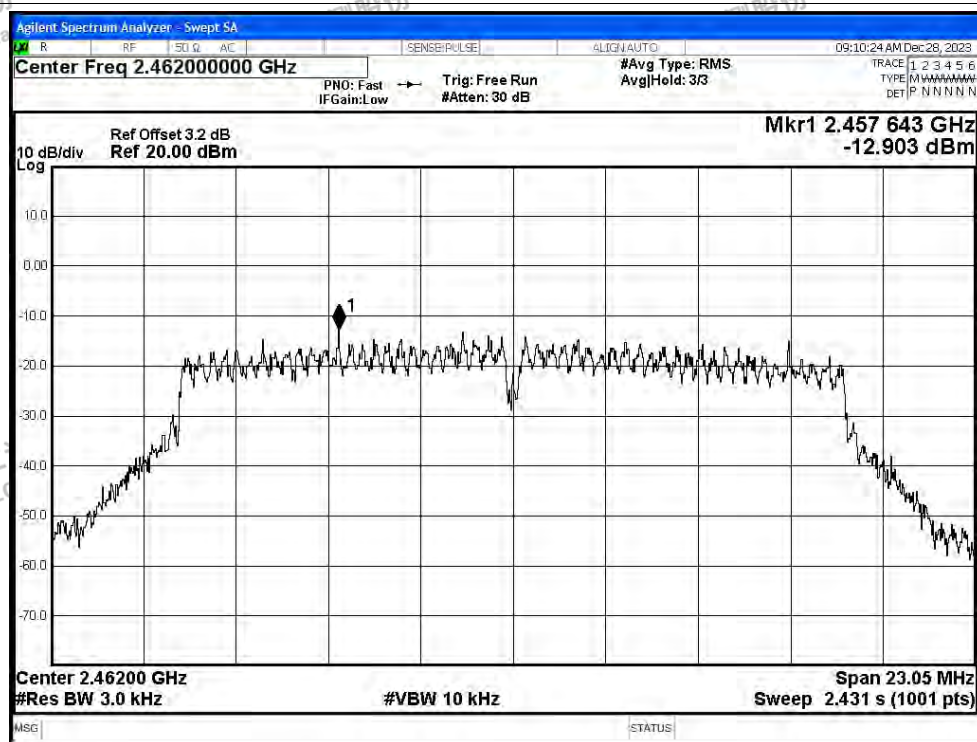




PSD NVNT g 2437MHz Ant1



PSD NVNT g 2462MHz Ant1



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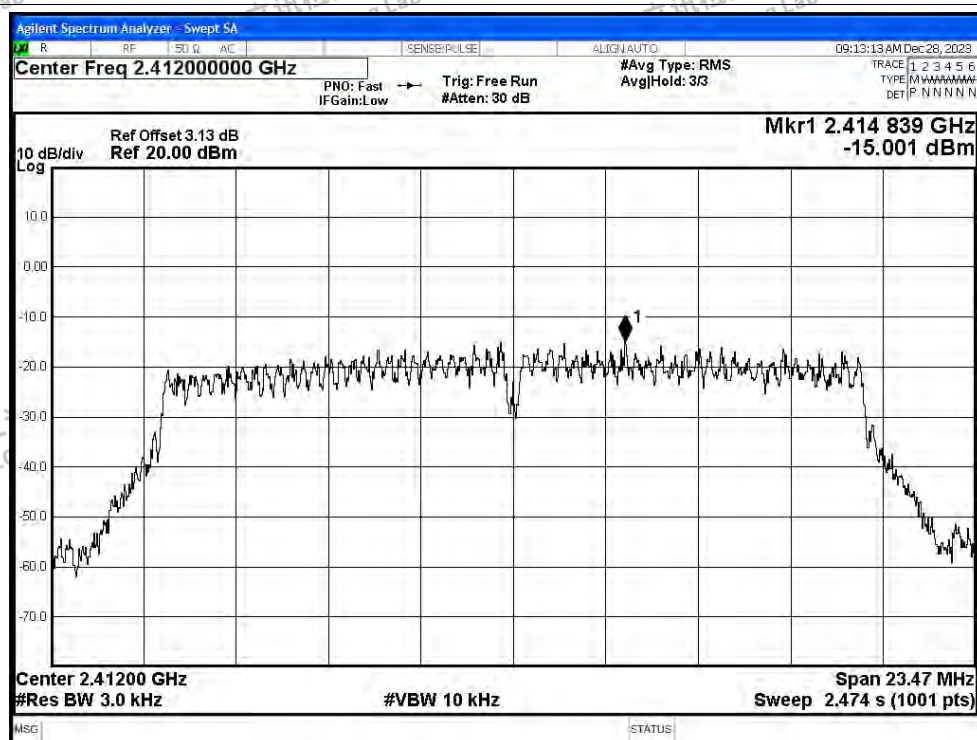
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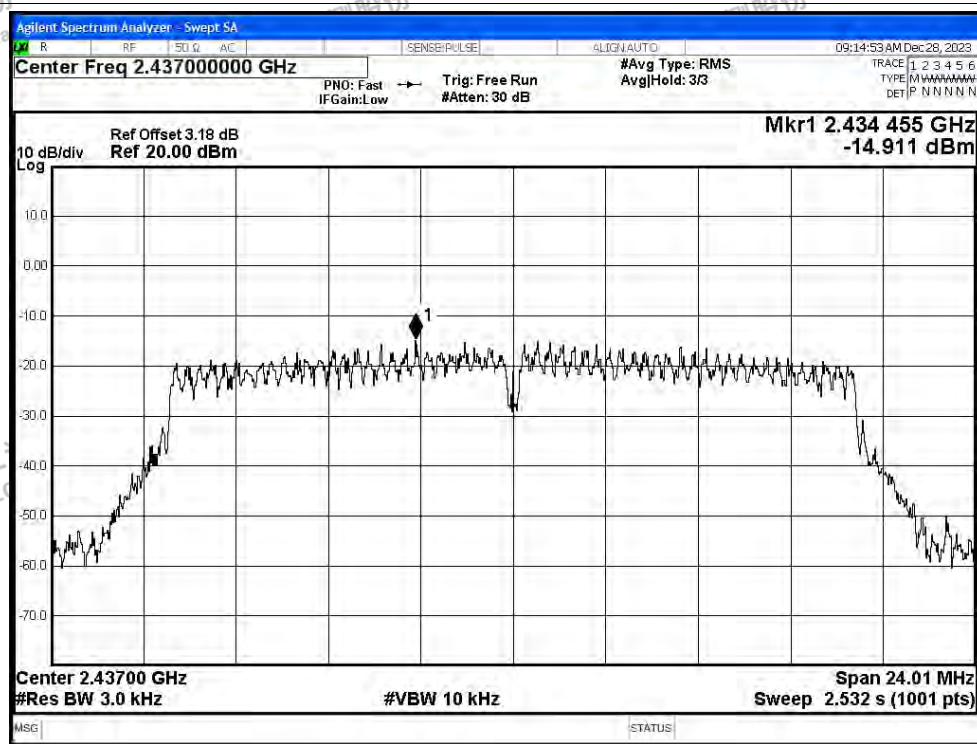
Scan code to check authenticity



PSD NVNT n20 2412MHz Ant1



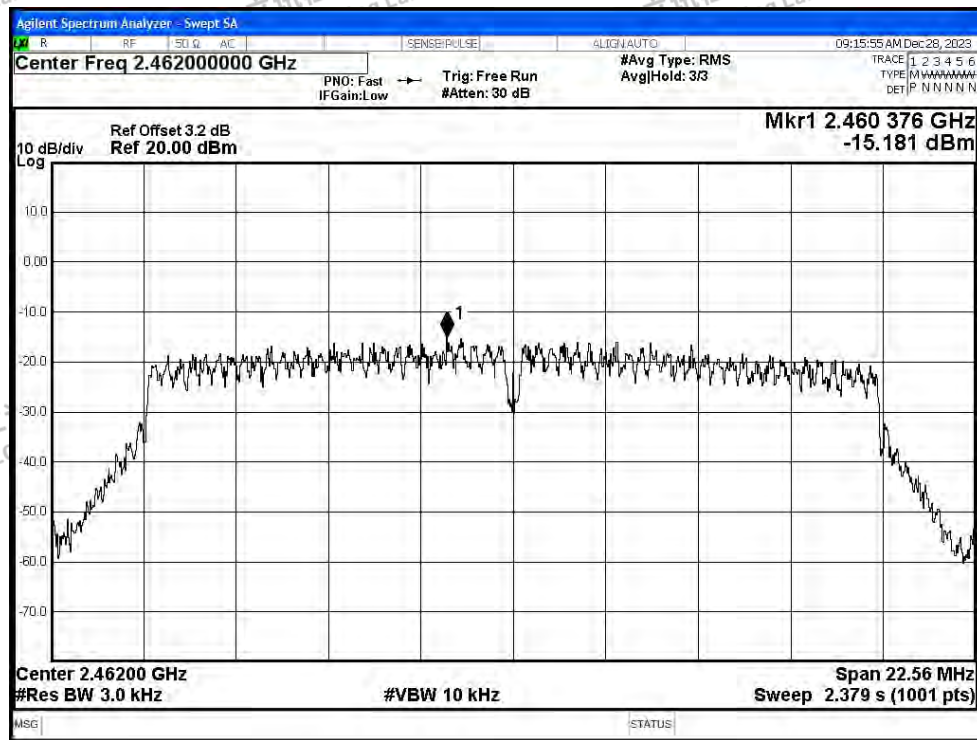
PSD NVNT n20 2437MHz Ant1



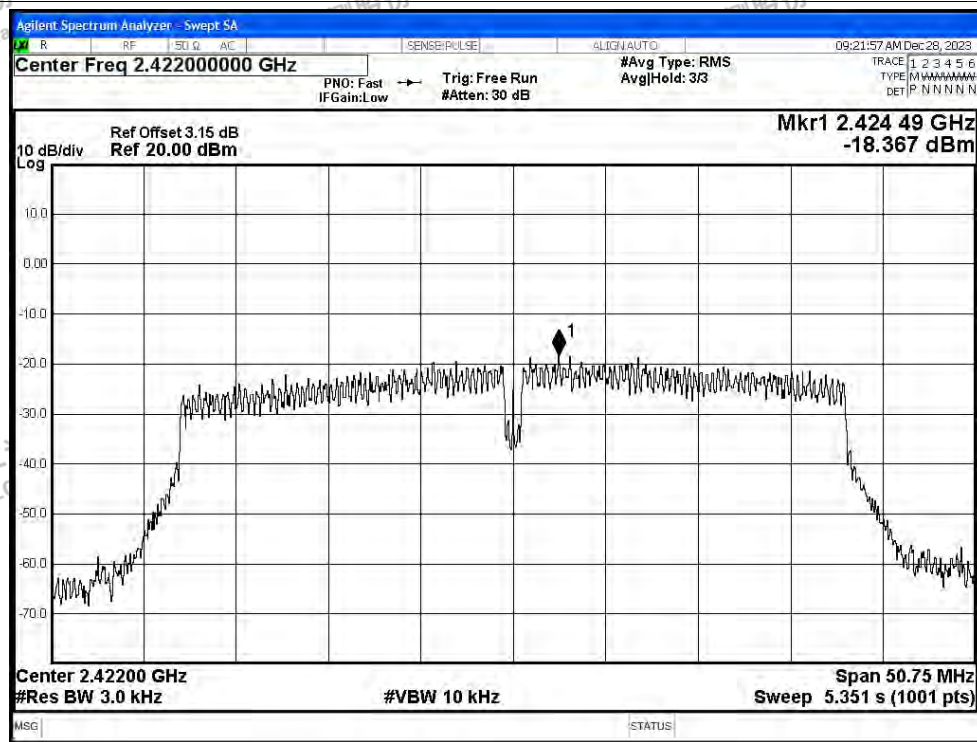




PSD NVNT n20 2462MHz Ant1

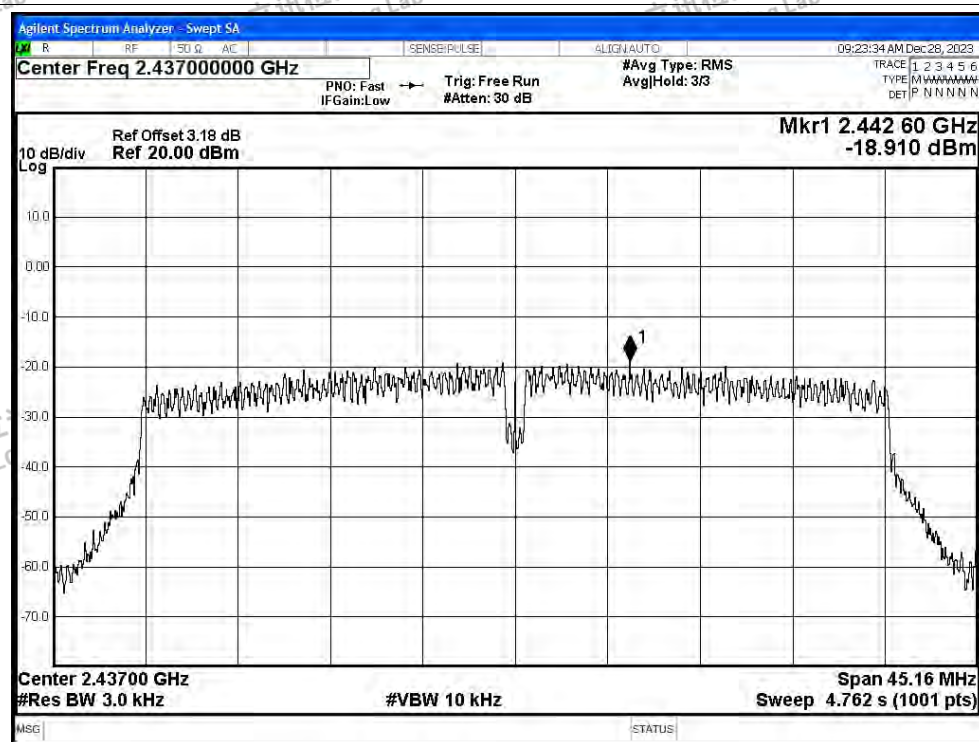


PSD NVNT n40 2422MHz Ant1

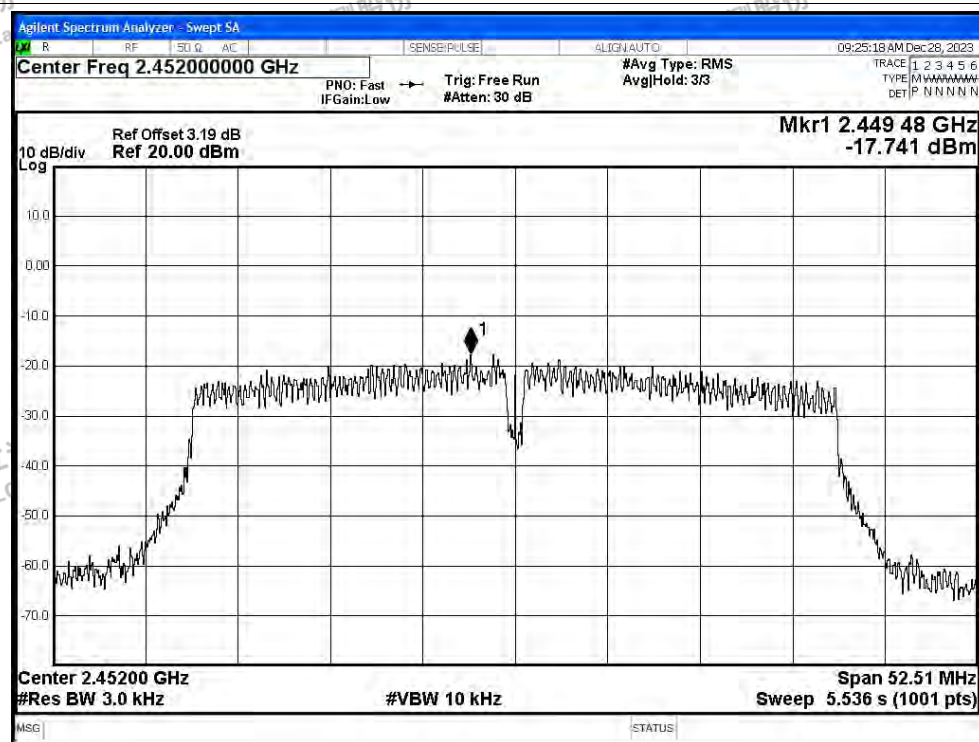




PSD NVNT n40 2437MHz Ant1



PSD NVNT n40 2452MHz Ant1





## C.4 Band Edge

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant0    | -53.08          | -20         | Pass    |
| NVNT      | b    | 2462            | Ant0    | -59.41          | -20         | Pass    |
| NVNT      | g    | 2412            | Ant0    | -41.94          | -20         | Pass    |
| NVNT      | g    | 2462            | Ant0    | -51.35          | -20         | Pass    |
| NVNT      | n20  | 2412            | Ant0    | -44.53          | -20         | Pass    |
| NVNT      | n20  | 2462            | Ant0    | -51.84          | -20         | Pass    |
| NVNT      | n40  | 2422            | Ant0    | -40.28          | -20         | Pass    |
| NVNT      | n40  | 2452            | Ant0    | -46.25          | -20         | Pass    |

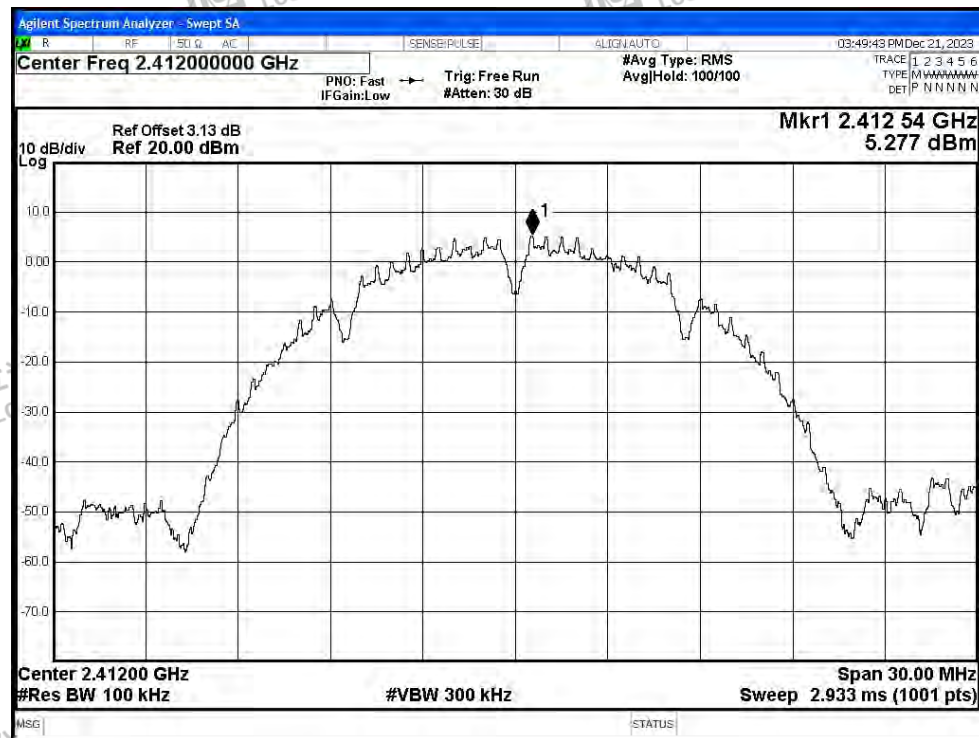


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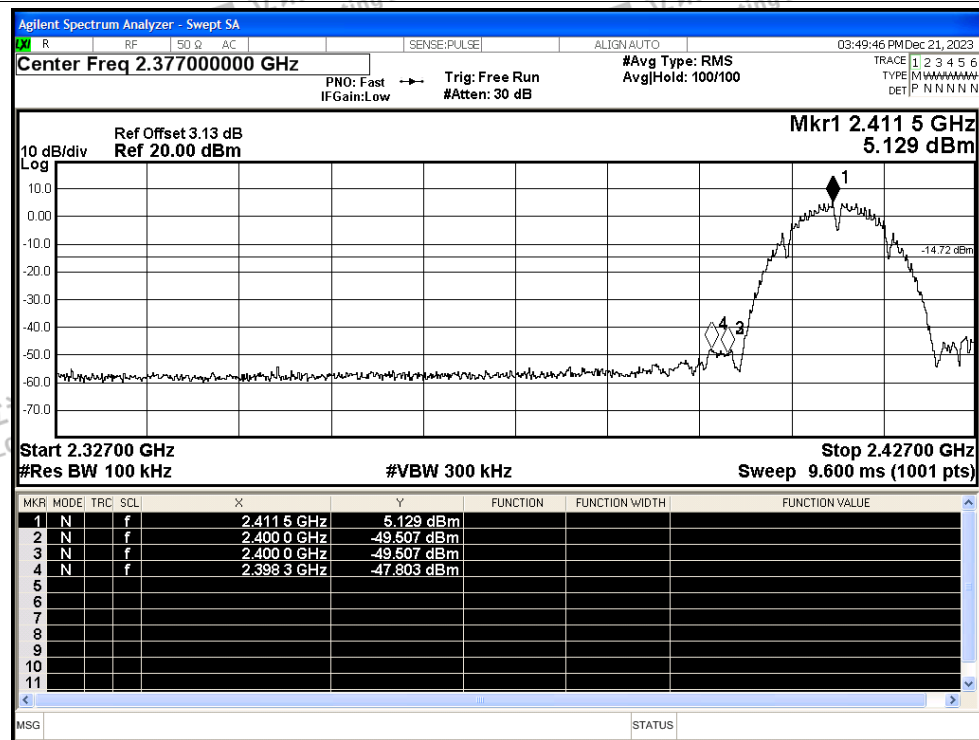


## Test Graphs

## Band Edge NVNT b 2412MHz Ant0 Ref



## Band Edge NVNT b 2412MHz Ant0 Emission



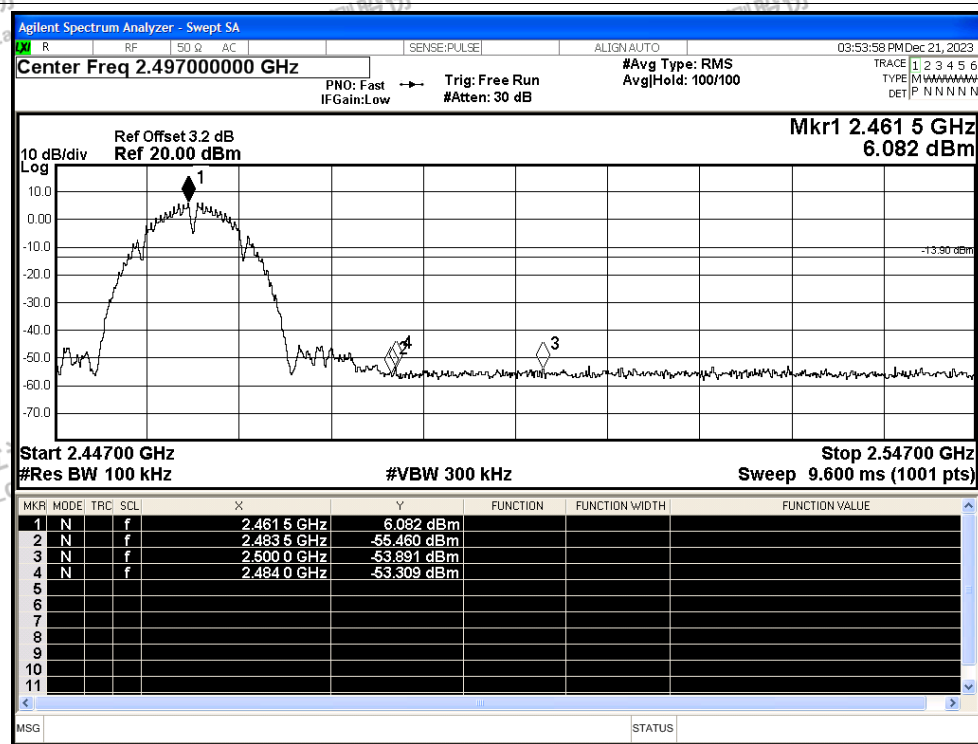




## Band Edge NVNT b 2462MHz Ant0 Ref



## Band Edge NVNT b 2462MHz Ant0 Emission



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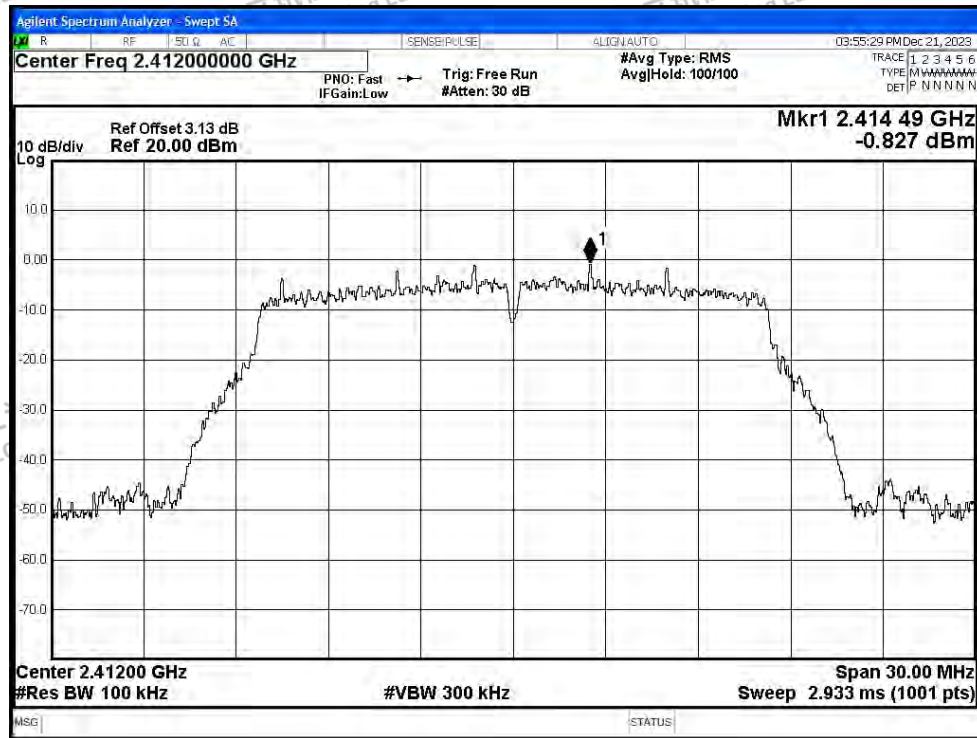
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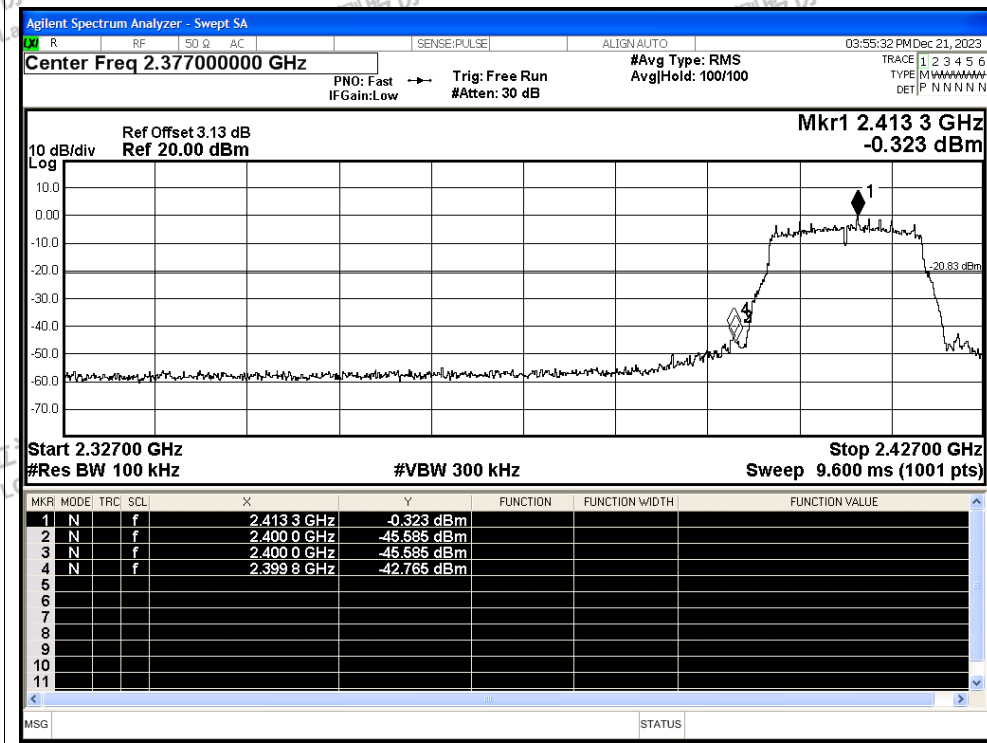




## Band Edge NVNT g 2412MHz Ant0 Ref

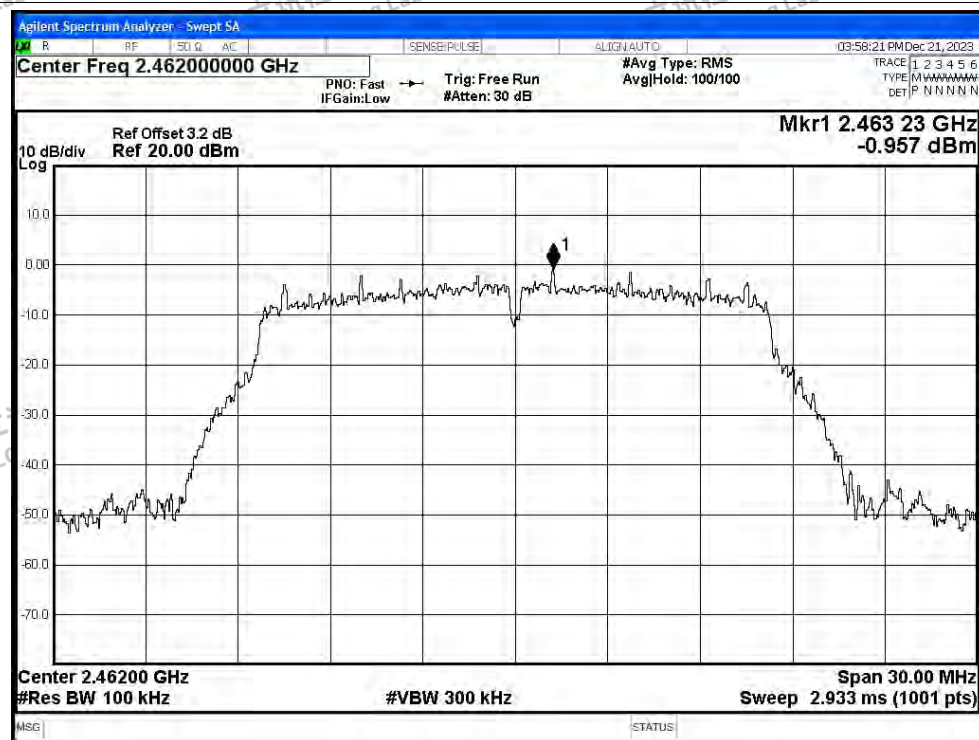


## Band Edge NVNT g 2412MHz Ant0 Emission

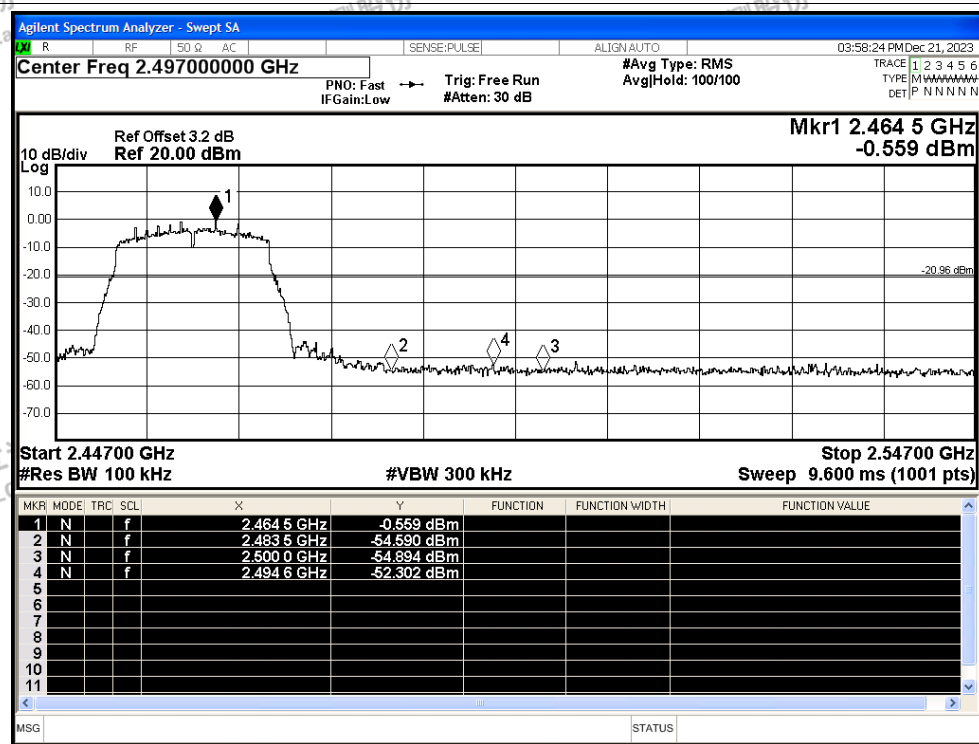




## Band Edge NVNT g 2462MHz Ant0 Ref

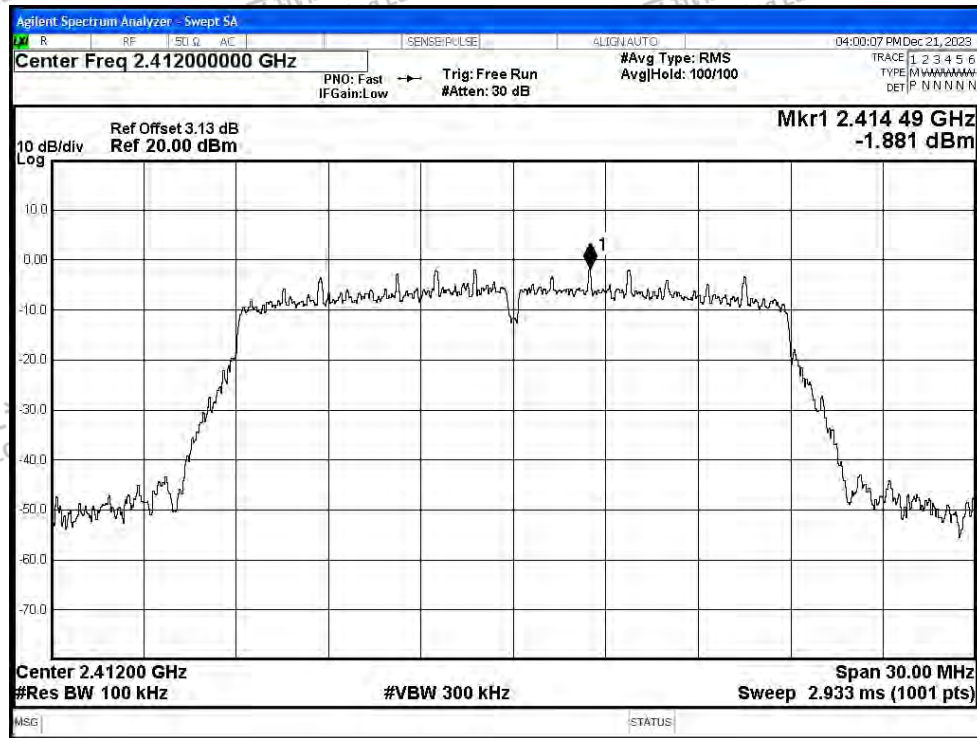


## Band Edge NVNT g 2462MHz Ant0 Emission

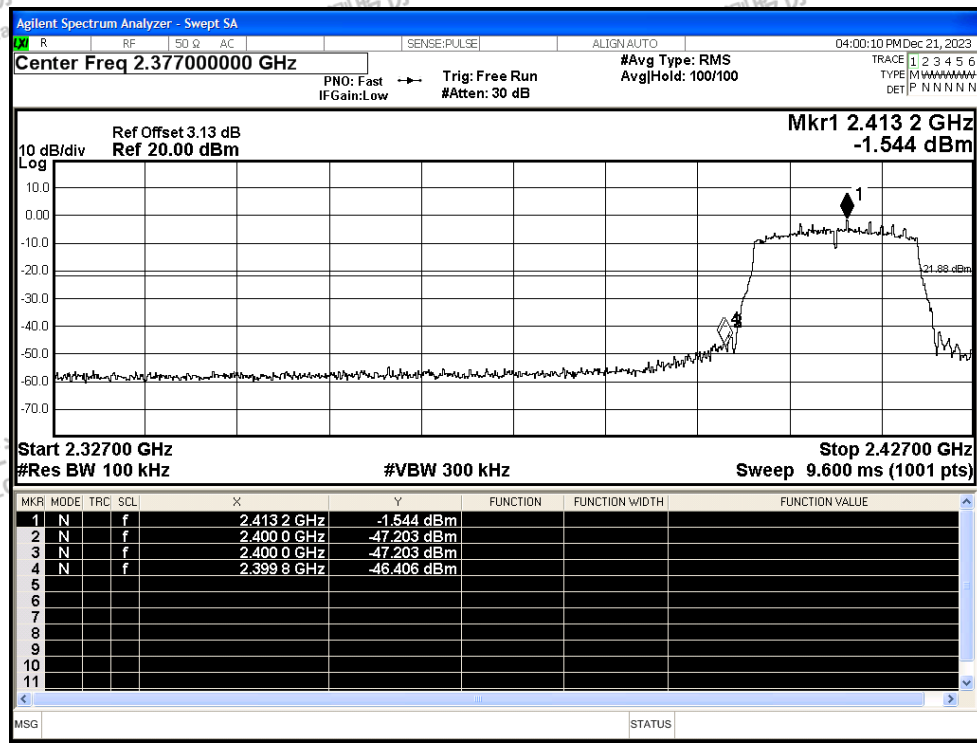




## Band Edge NVNT n20 2412MHz Ant0 Ref

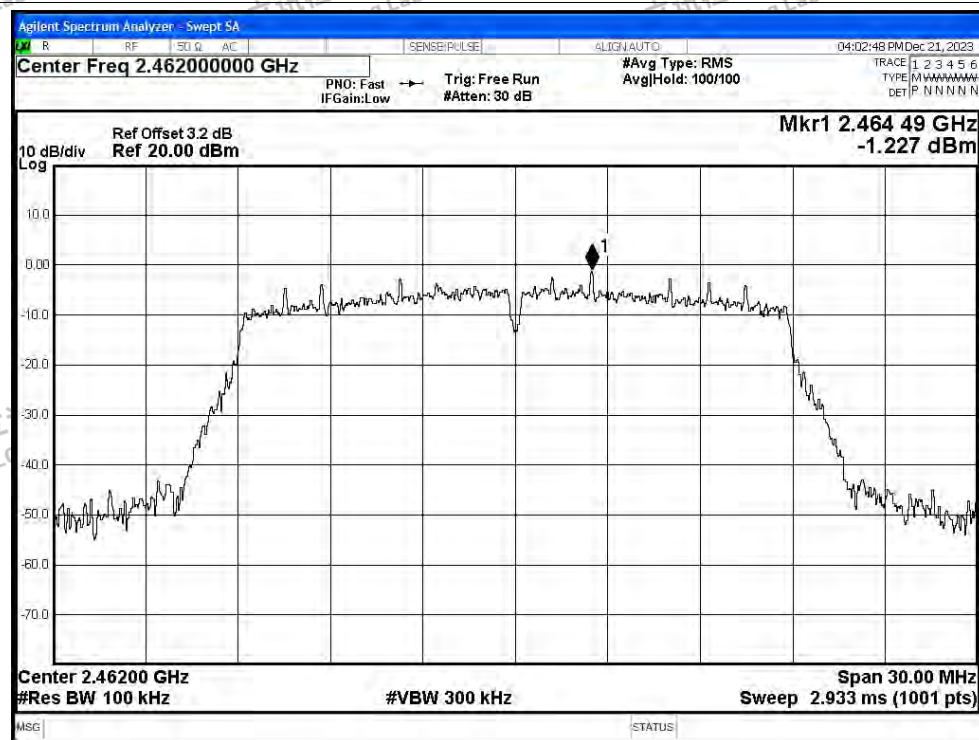


## Band Edge NVNT n20 2412MHz Ant0 Emission

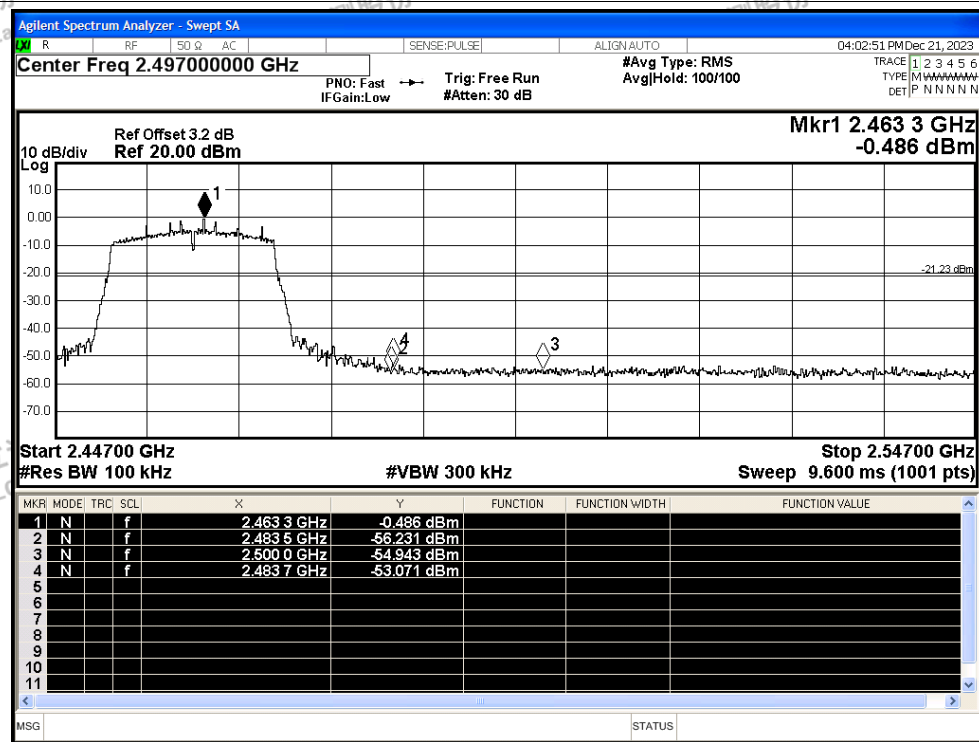




## Band Edge NVNT n20 2462MHz Ant0 Ref



## Band Edge NVNT n20 2462MHz Ant0 Emission



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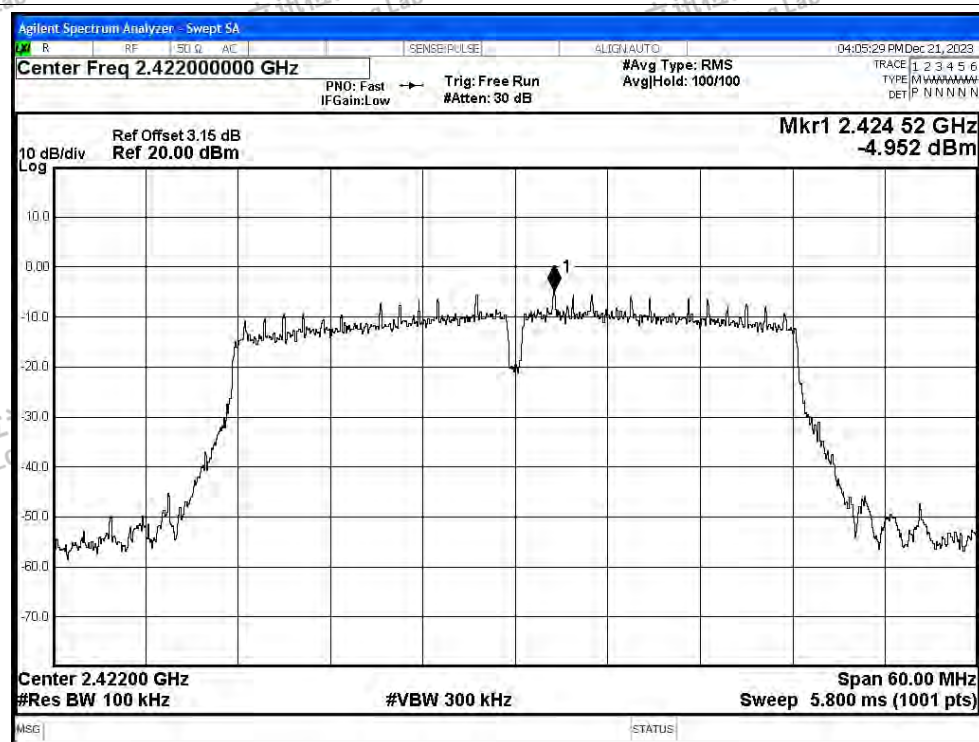
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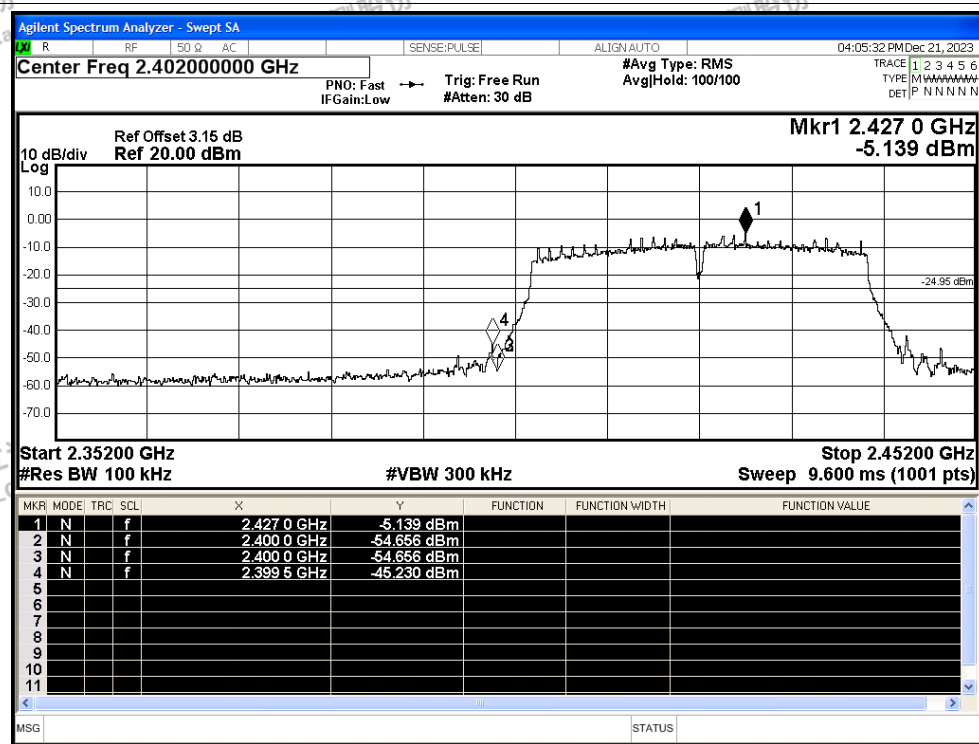




## Band Edge NVNT n40 2422MHz Ant0 Ref



## Band Edge NVNT n40 2422MHz Ant0 Emission



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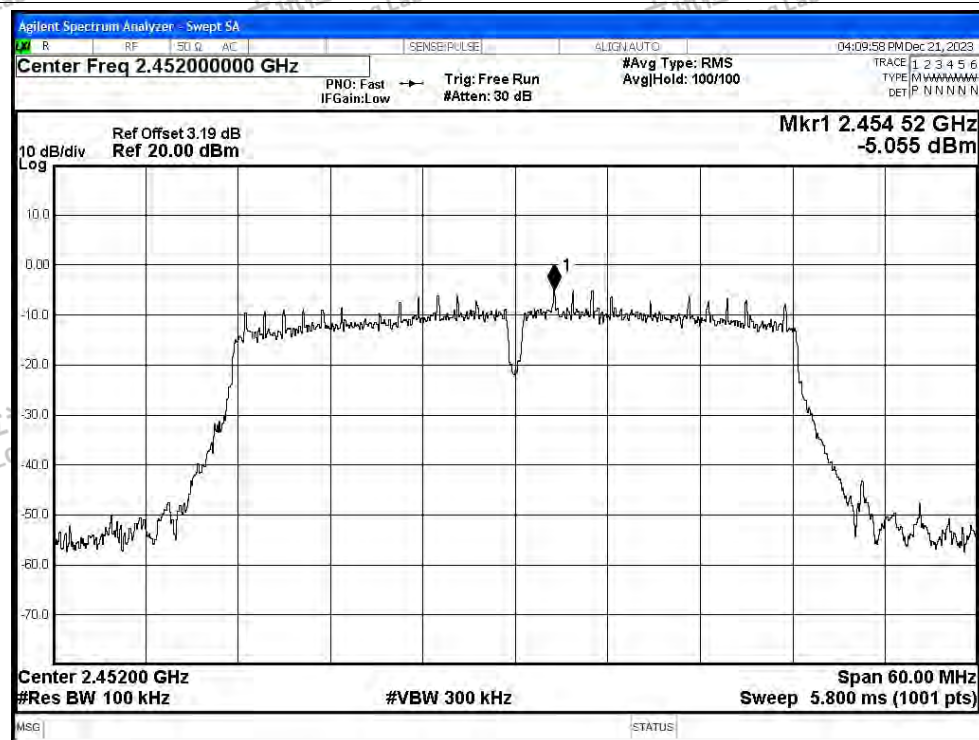
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity

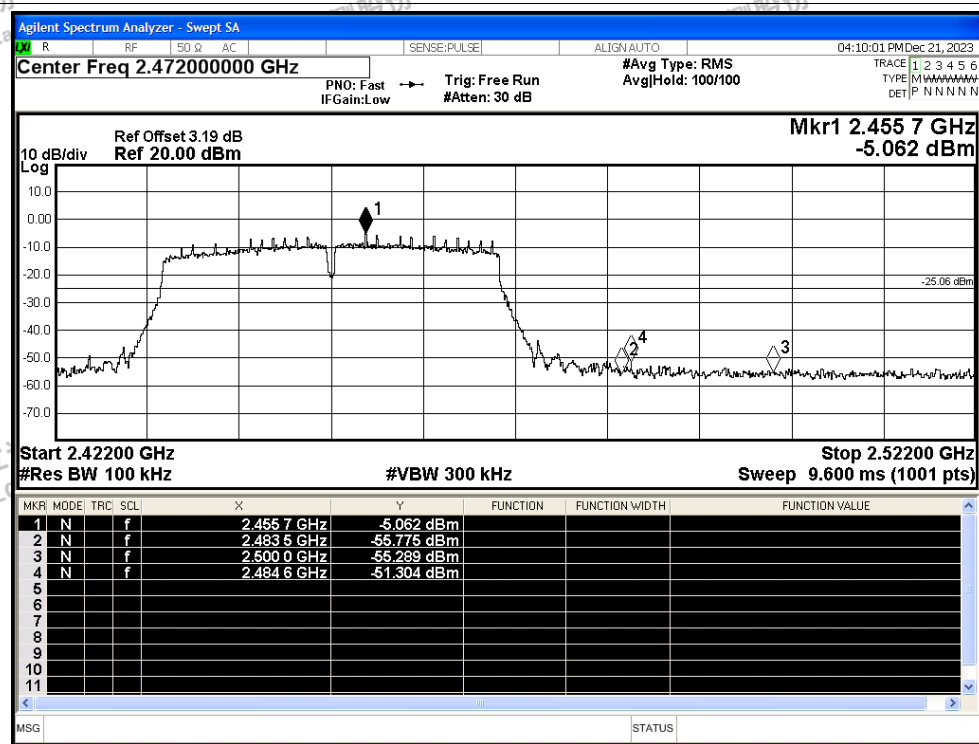




## Band Edge NVNT n40 2452MHz Ant0 Ref



## Band Edge NVNT n40 2452MHz Ant0 Emission



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| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | -50.87          | -20         | Pass    |
| NVNT      | b    | 2462            | Ant1    | -59.94          | -20         | Pass    |
| NVNT      | g    | 2412            | Ant1    | -31.54          | -20         | Pass    |
| NVNT      | g    | 2462            | Ant1    | -49.93          | -20         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -34.53          | -20         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -51.53          | -20         | Pass    |
| NVNT      | n40  | 2422            | Ant1    | -36.87          | -20         | Pass    |
| NVNT      | n40  | 2452            | Ant1    | -39.19          | -20         | Pass    |

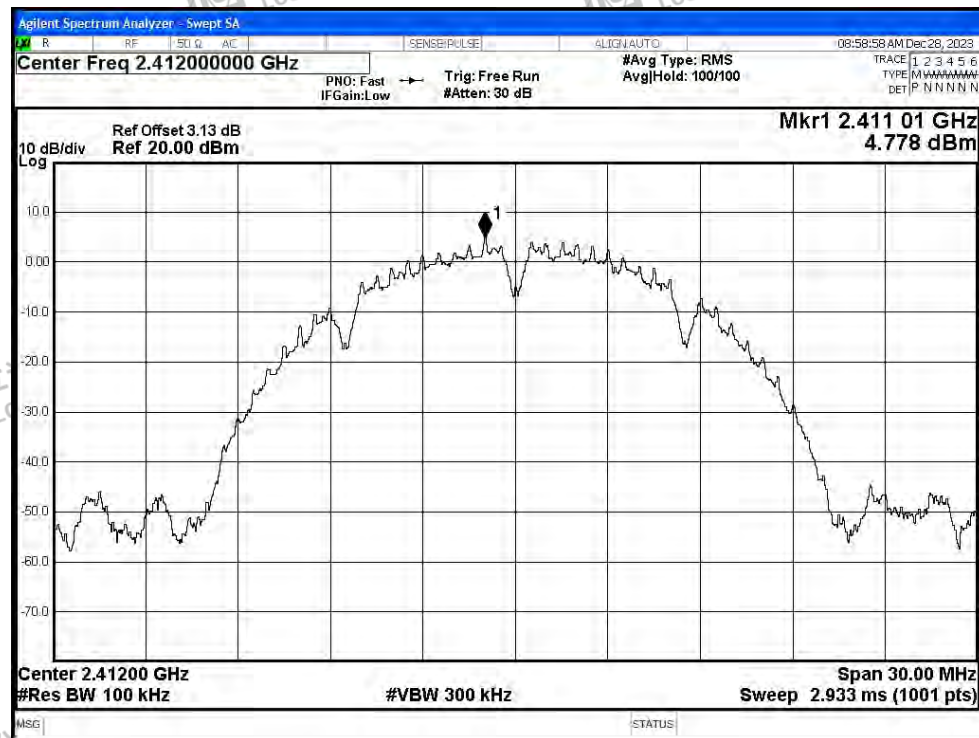


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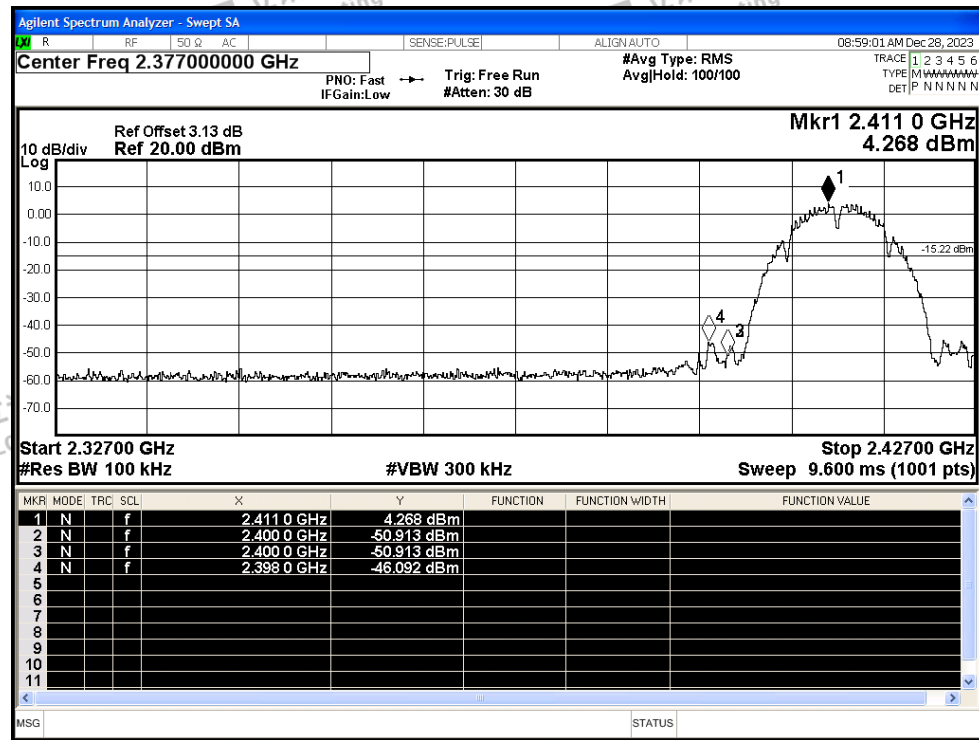


## Test Graphs

## Band Edge NVNT b 2412MHz Ant1 Ref

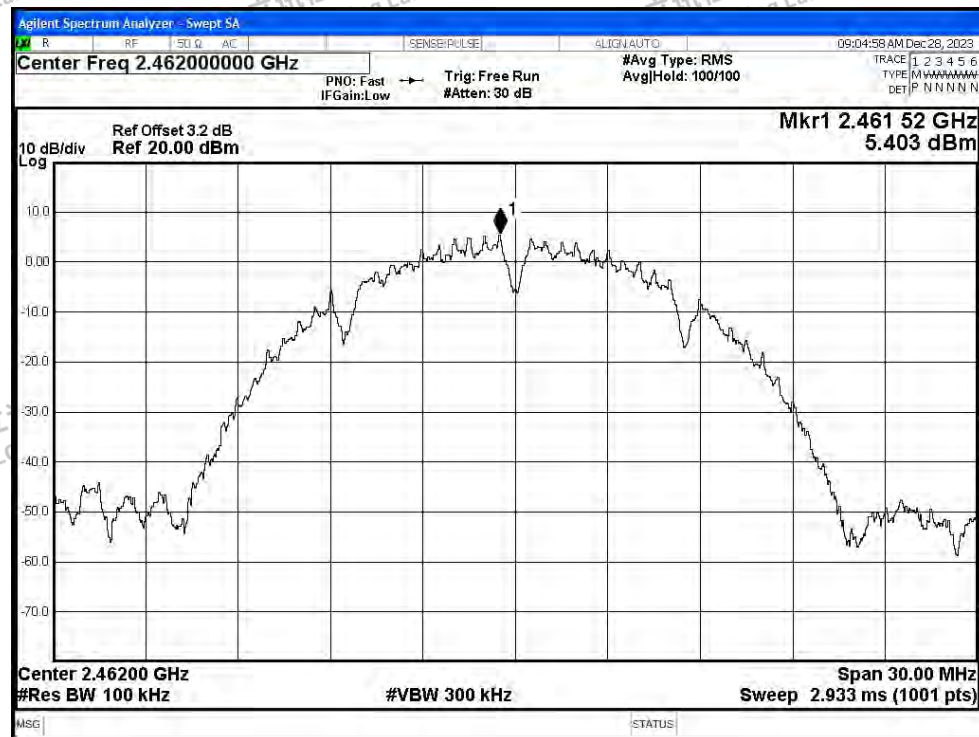


## Band Edge NVNT b 2412MHz Ant1 Emission

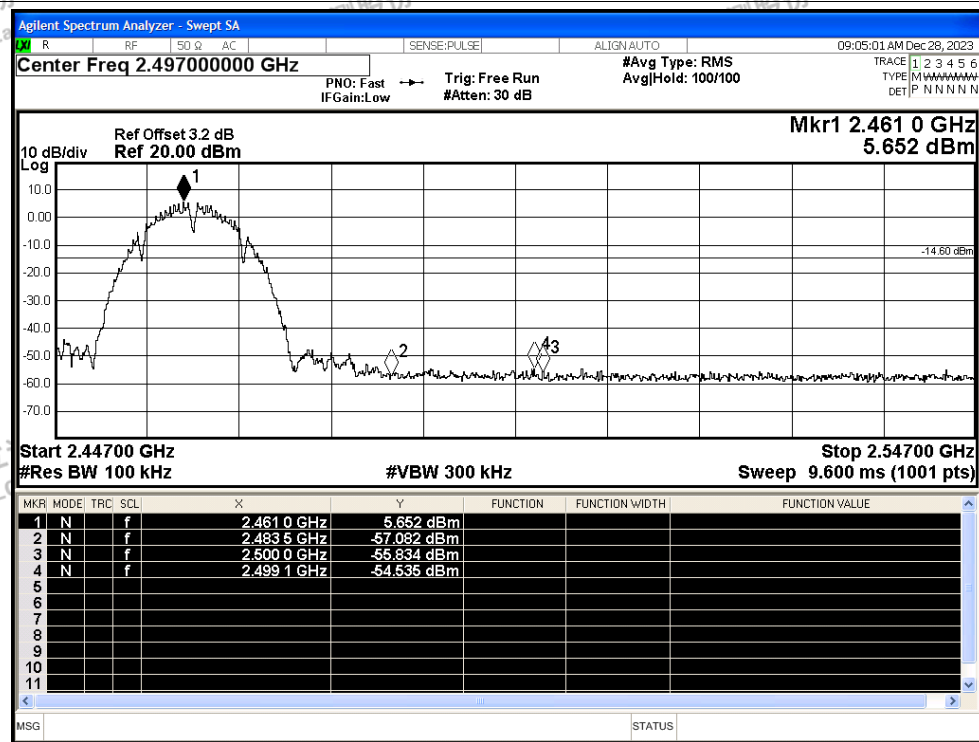




## Band Edge NVNT b 2462MHz Ant1 Ref



## Band Edge NVNT b 2462MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

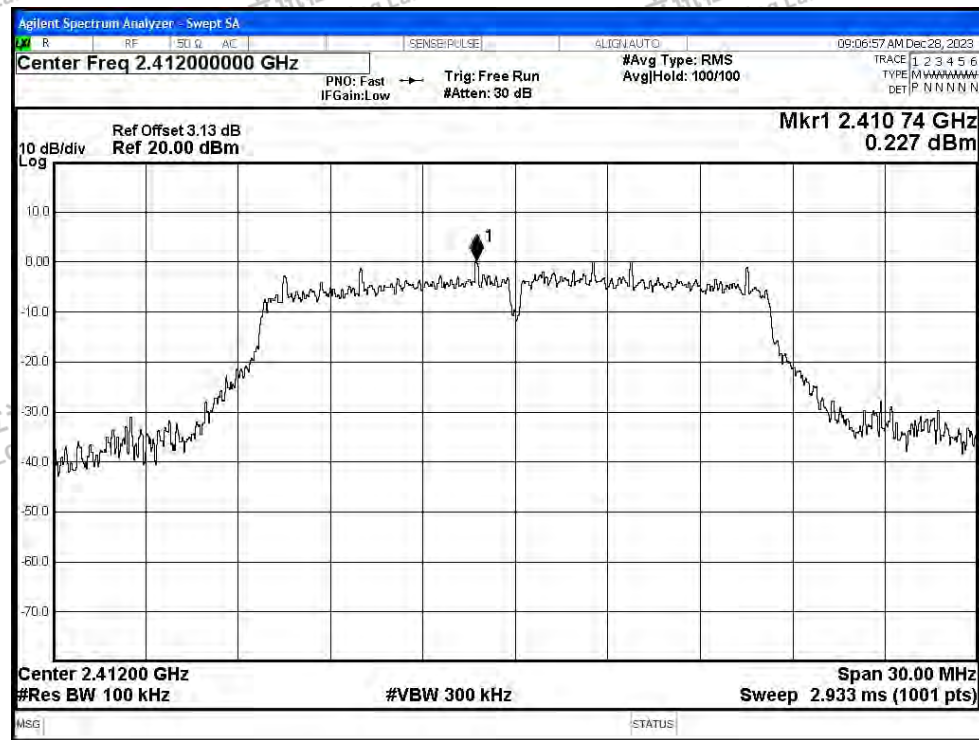
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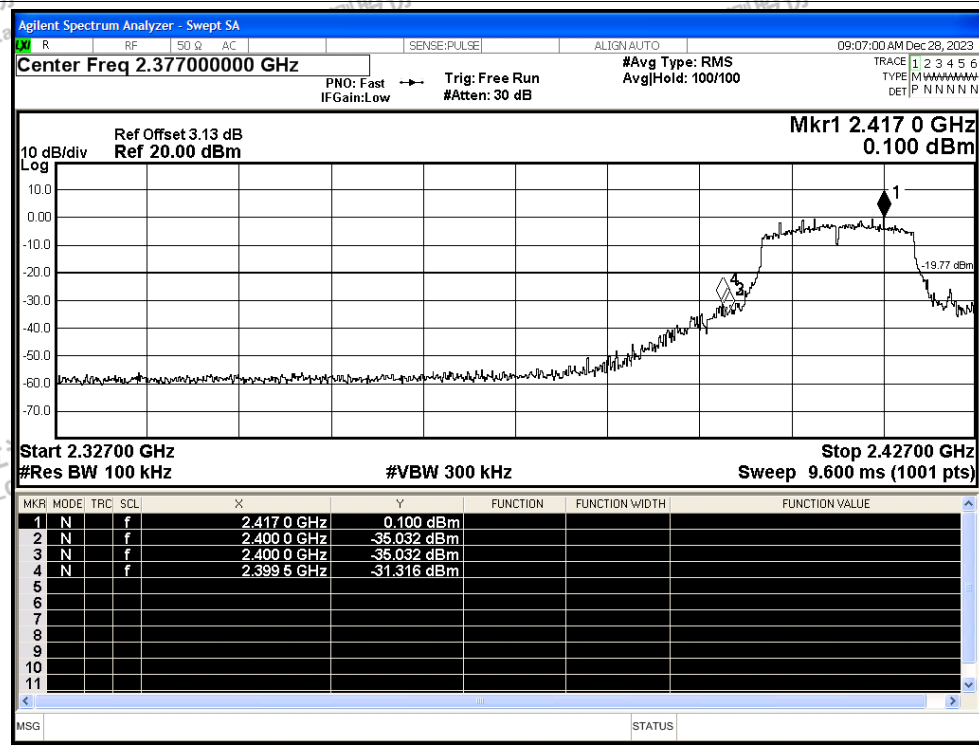
Scan code to check authenticity



## Band Edge NVNT g 2412MHz Ant1 Ref



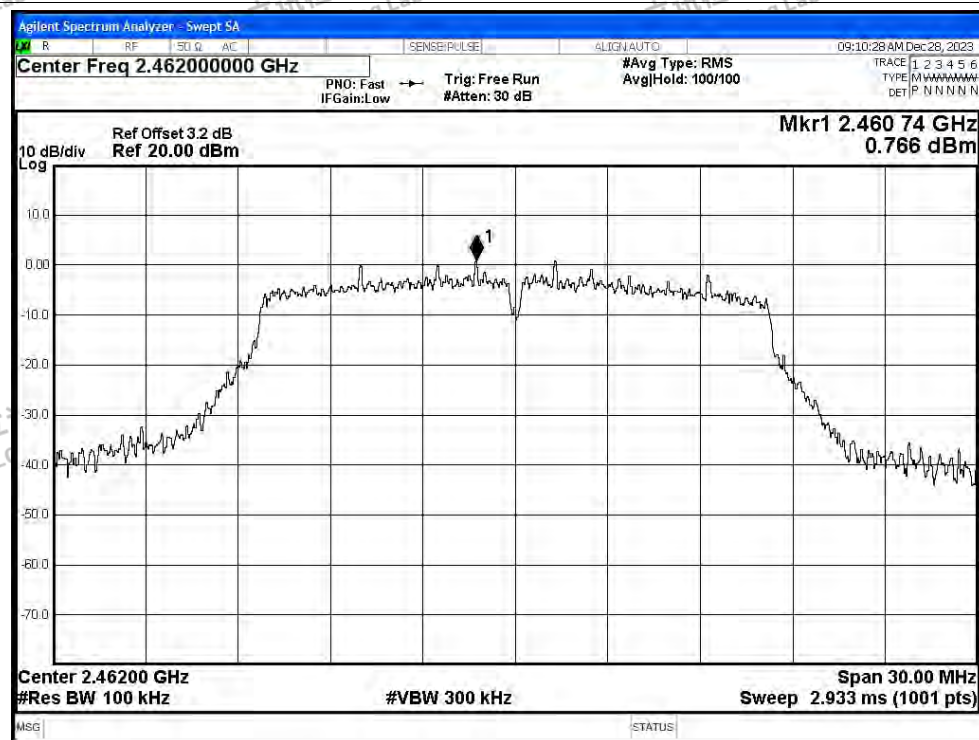
## Band Edge NVNT g 2412MHz Ant1 Emission



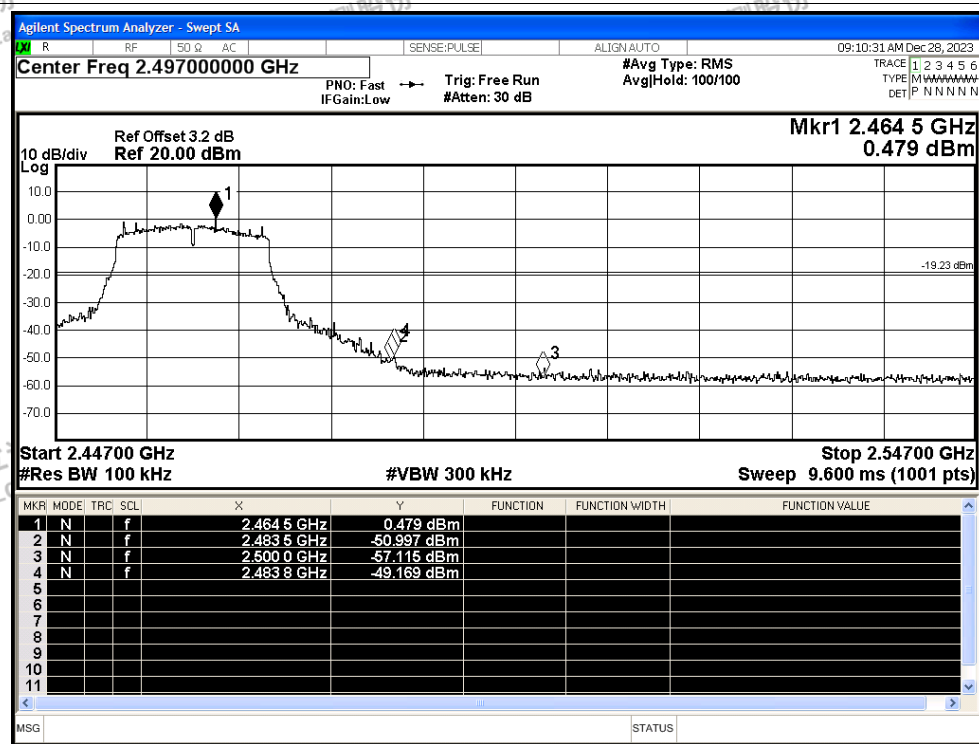




## Band Edge NVNT g 2462MHz Ant1 Ref



## Band Edge NVNT g 2462MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

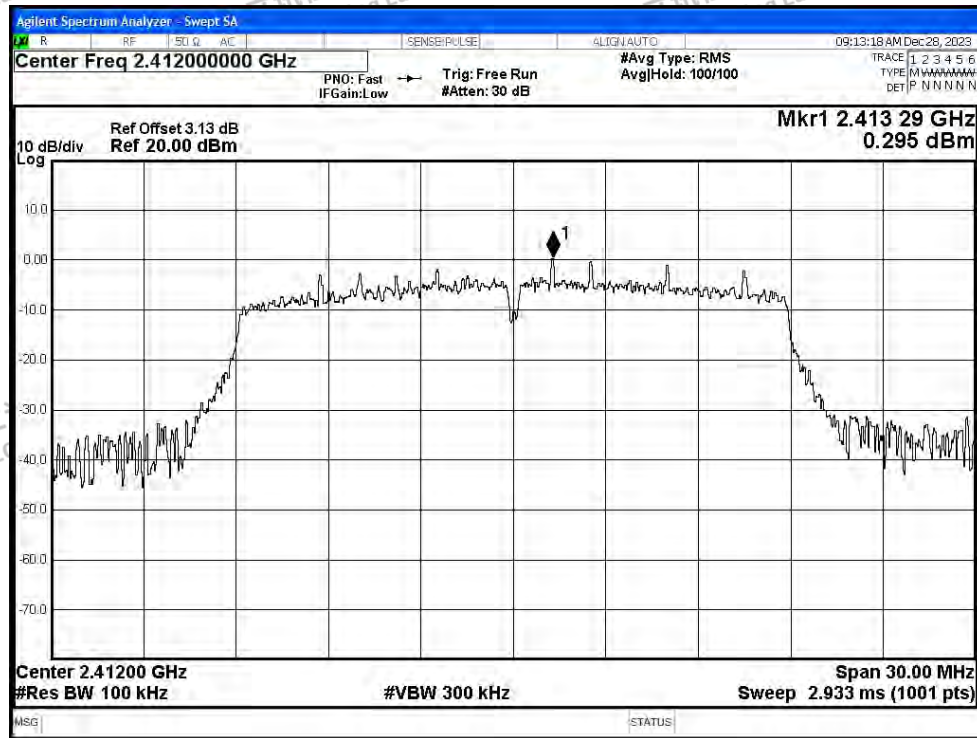
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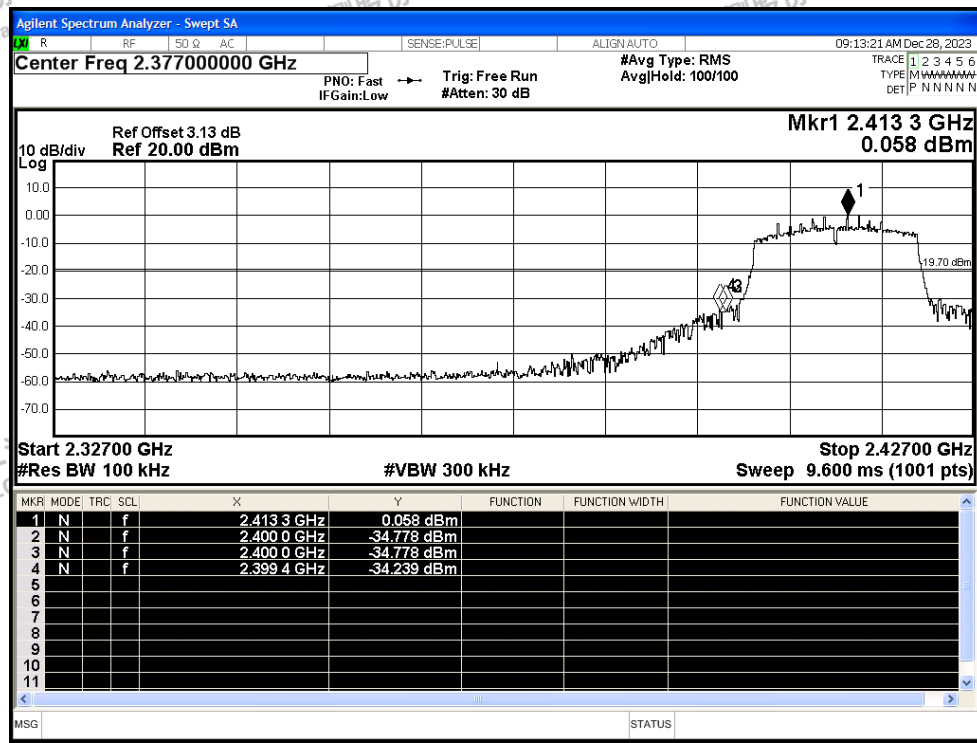
Scan code to check authenticity



## Band Edge NVNT n20 2412MHz Ant1 Ref

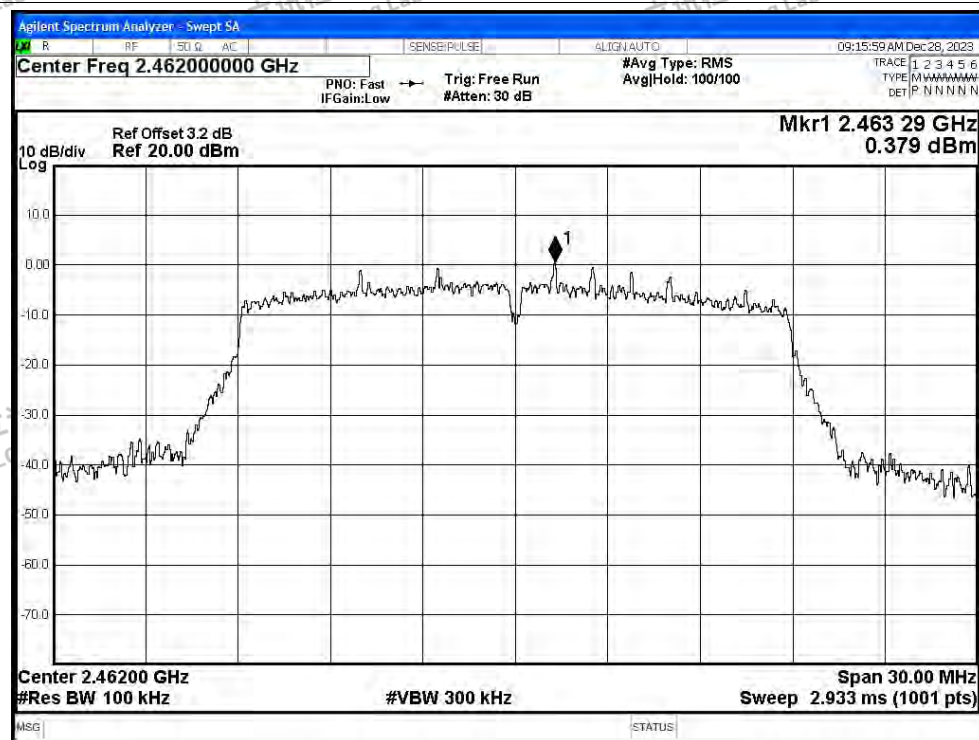


## Band Edge NVNT n20 2412MHz Ant1 Emission

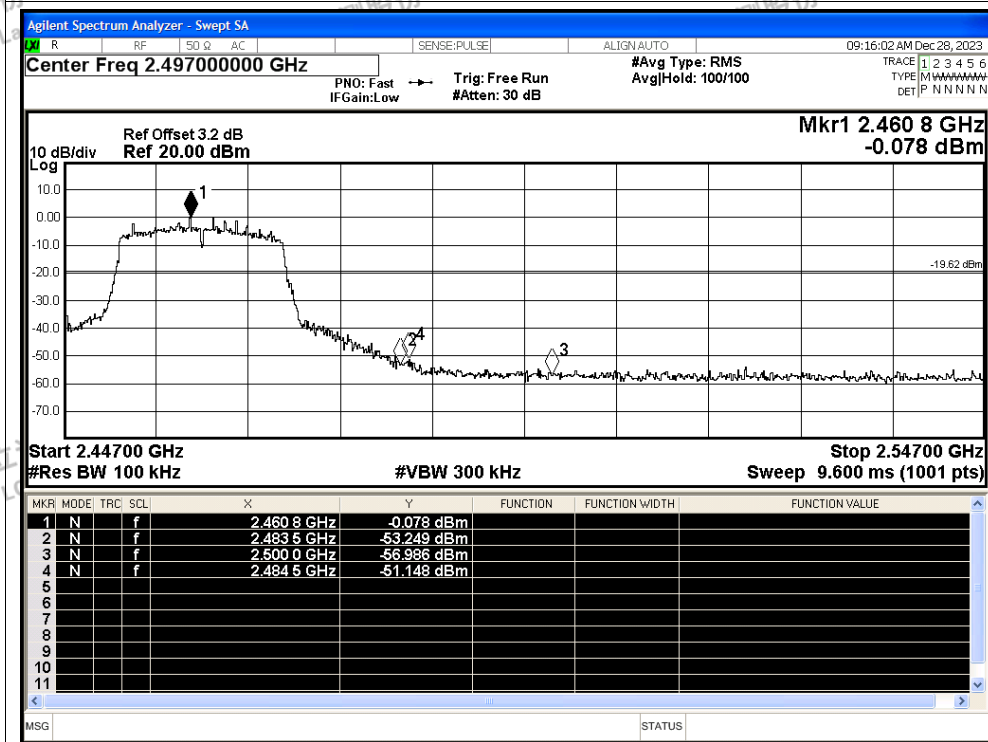




## Band Edge NVNT n20 2462MHz Ant1 Ref



## Band Edge NVNT n20 2462MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

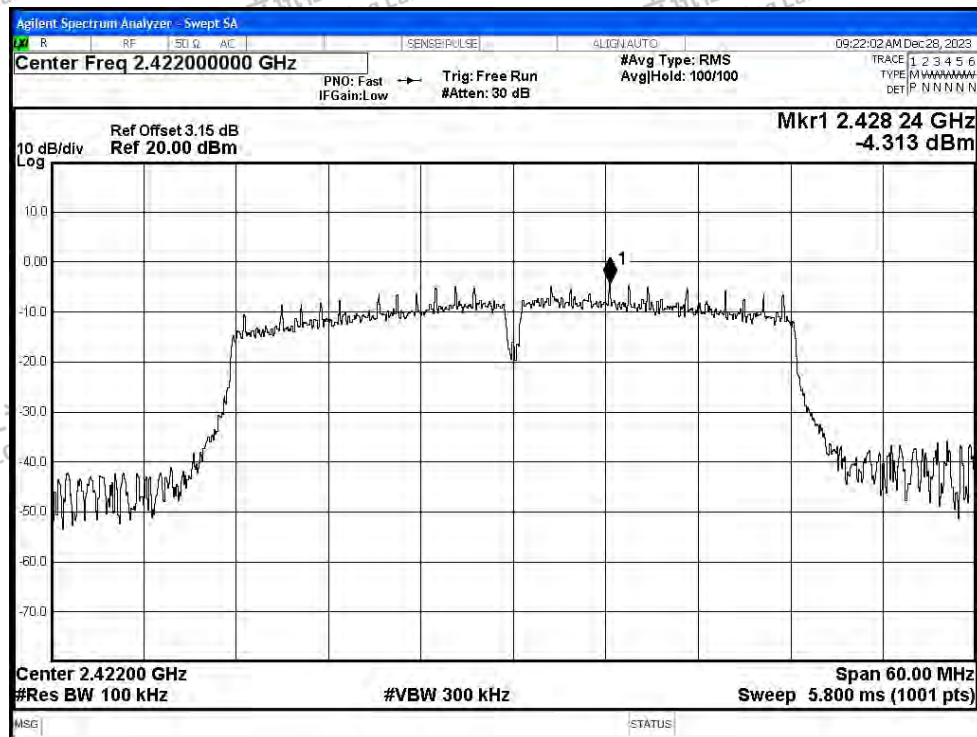
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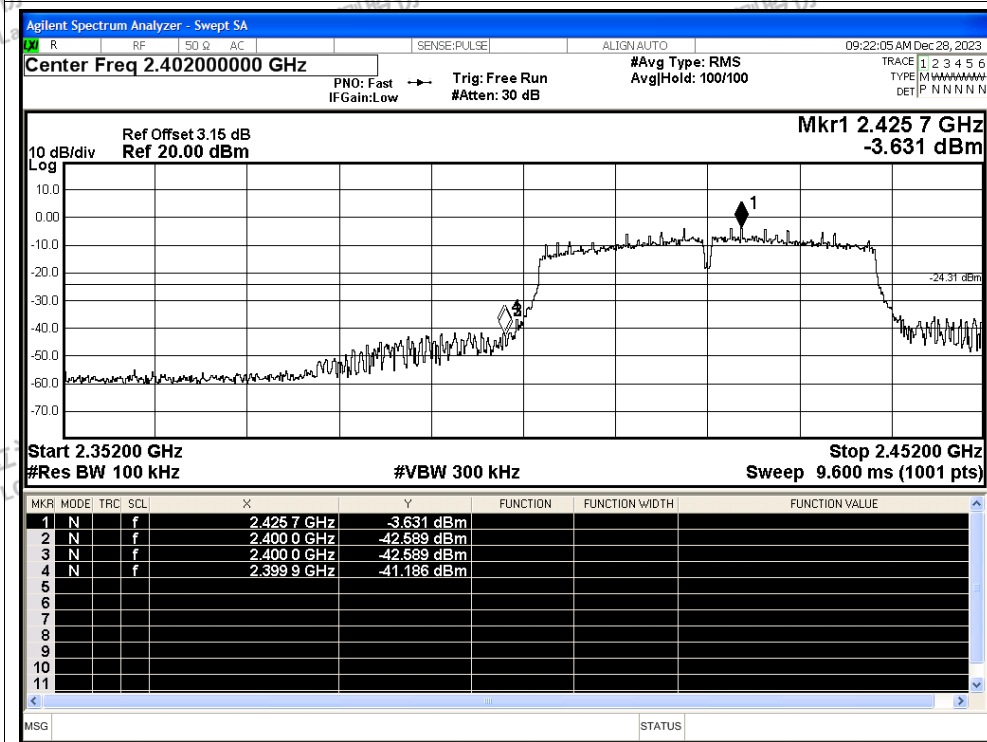
Scan code to check authenticity



## Band Edge NVNT n40 2422MHz Ant1 Ref



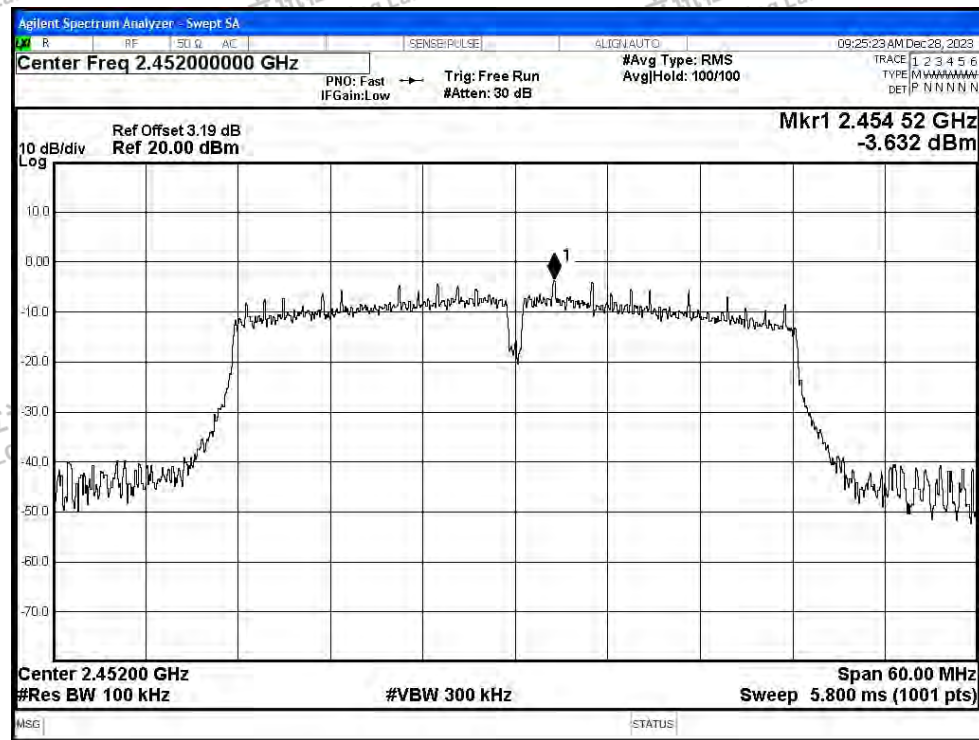
## Band Edge NVNT n40 2422MHz Ant1 Emission



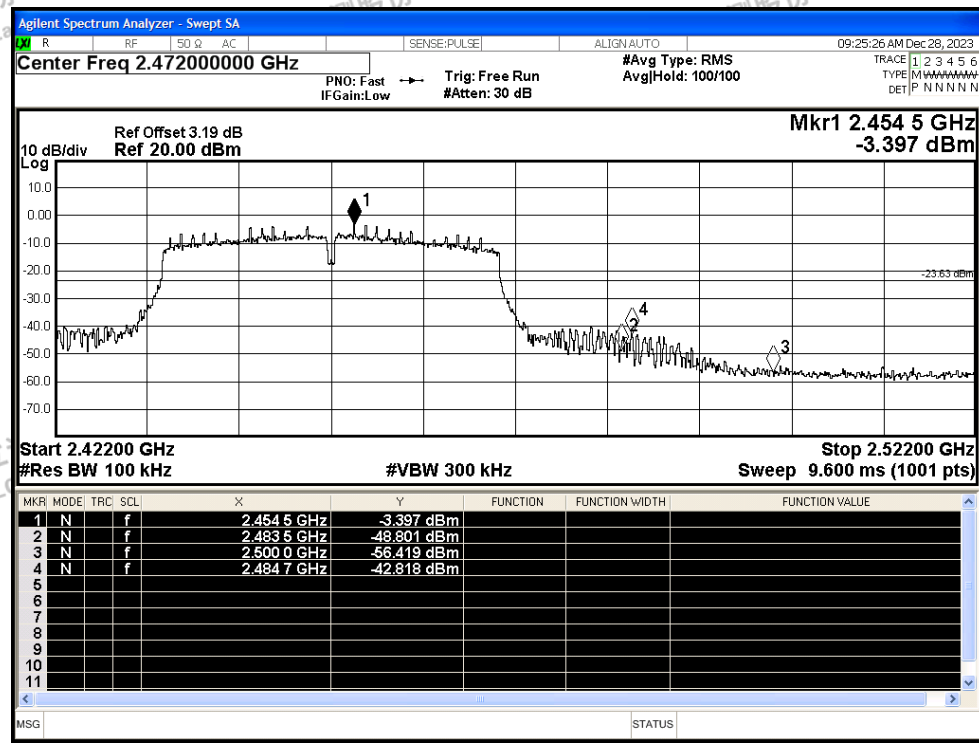




## Band Edge NVNT n40 2452MHz Ant1 Ref



## Band Edge NVNT n40 2452MHz Ant1 Emission







## C.5 Conducted RF Spurious Emission

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant0    | -50.46          | -20         | Pass    |
| NVNT      | b    | 2437            | Ant0    | -51.47          | -20         | Pass    |
| NVNT      | b    | 2462            | Ant0    | -51             | -20         | Pass    |
| NVNT      | g    | 2412            | Ant0    | -42.74          | -20         | Pass    |
| NVNT      | g    | 2437            | Ant0    | -44.99          | -20         | Pass    |
| NVNT      | g    | 2462            | Ant0    | -44.91          | -20         | Pass    |
| NVNT      | n20  | 2412            | Ant0    | -44.02          | -20         | Pass    |
| NVNT      | n20  | 2437            | Ant0    | -44.35          | -20         | Pass    |
| NVNT      | n20  | 2462            | Ant0    | -44.25          | -20         | Pass    |
| NVNT      | n40  | 2422            | Ant0    | -40.43          | -20         | Pass    |
| NVNT      | n40  | 2437            | Ant0    | -37.58          | -20         | Pass    |
| NVNT      | n40  | 2452            | Ant0    | -40.43          | -20         | Pass    |

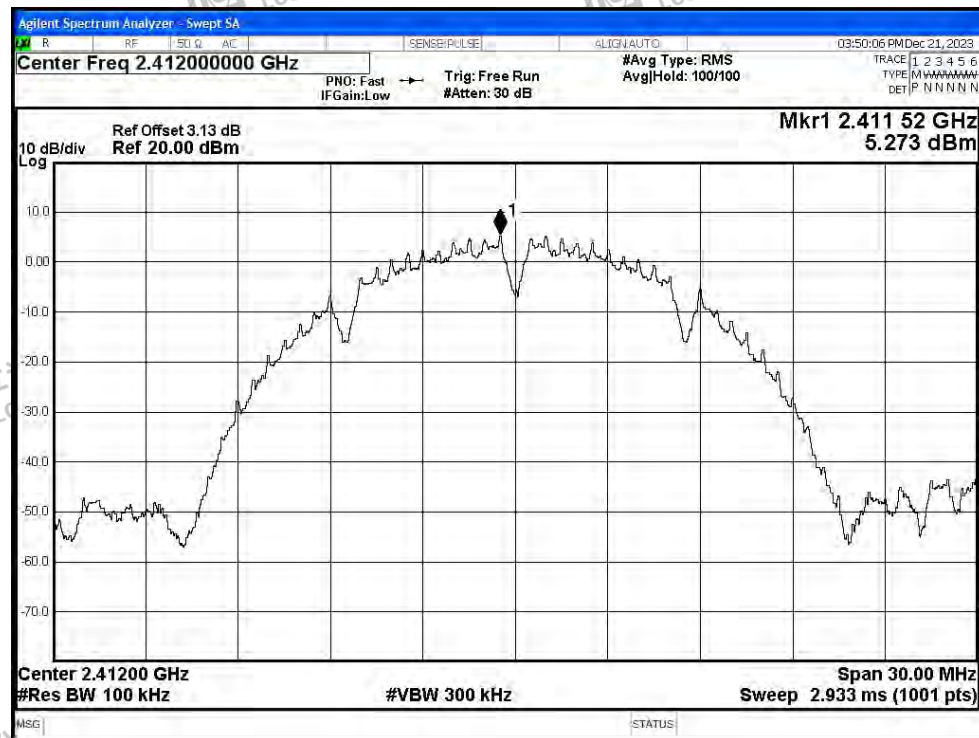


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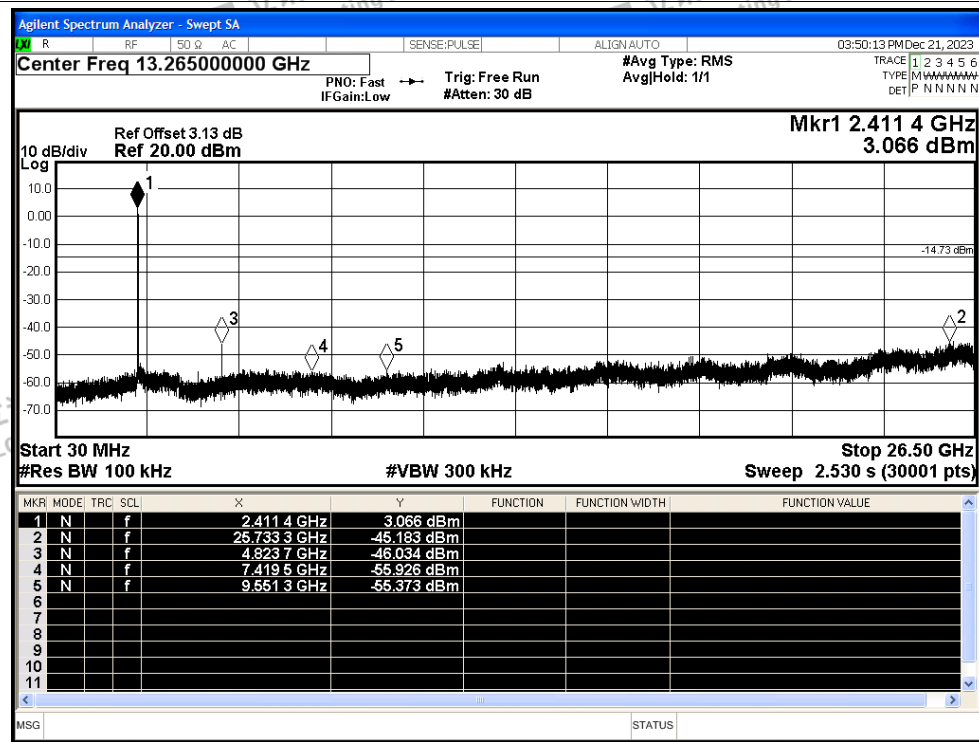


## Test Graphs

Tx: Spurious NVNT b 2412MHz Ant0 Ref



Tx: Spurious NVNT b 2412MHz Ant0 Emission



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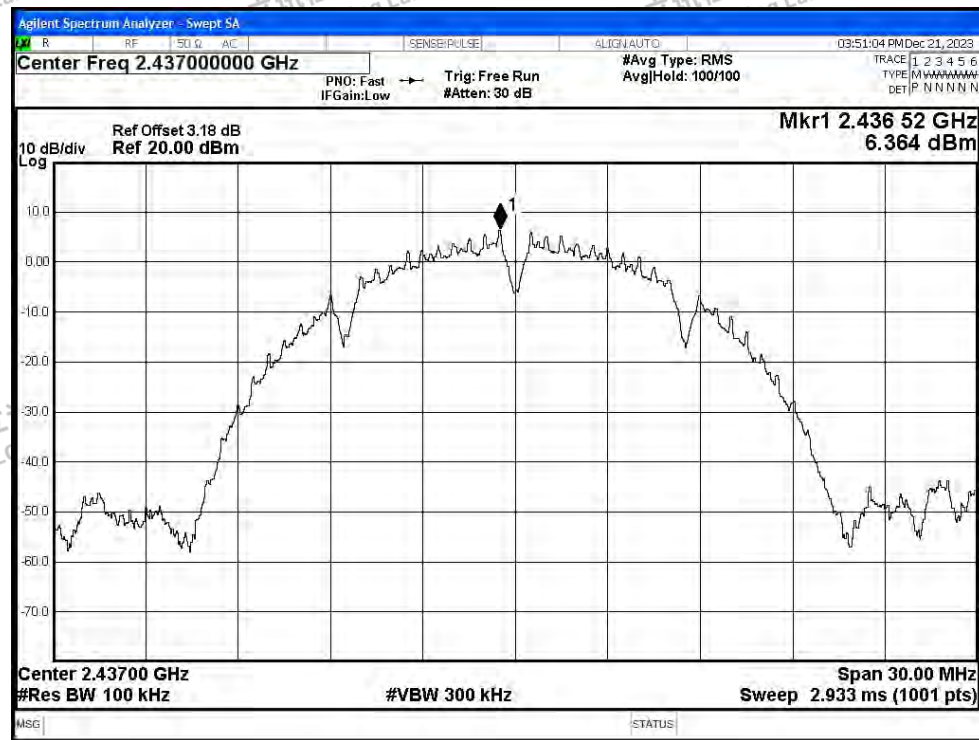
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Tx: Spurious NVNT b 2437MHz Ant0 Ref



Tx: Spurious NVNT b 2437MHz Ant0 Emission

