



## Appendix C

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

Product Name: Pocket Unit

Test Model: 900.1002.01

#### Environmental Conditions

|                    |            |
|--------------------|------------|
| Temperature:       | 23.8° C    |
| Relative Humidity: | 52.1%      |
| ATM Pressure:      | 100.0 kPa  |
| Test Engineer:     | Paddi Chen |
| 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            | Ant1    | 8.091                 | $\geq 0.5$                  | Pass    |
| NVNT      | b    | 2437            | Ant1    | 7.611                 | $\geq 0.5$                  | Pass    |
| NVNT      | b    | 2462            | Ant1    | 8.059                 | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2412            | Ant1    | 13.247                | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2437            | Ant1    | 14.479                | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2462            | Ant1    | 13.196                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 15.099                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 15.106                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 13.815                | $\geq 0.5$                  | Pass    |
| NVNT      | n40  | 2422            | Ant1    | 35.644                | $\geq 0.5$                  | Pass    |
| NVNT      | n40  | 2437            | Ant1    | 25.086                | $\geq 0.5$                  | Pass    |
| NVNT      | n40  | 2452            | Ant1    | 17.588                | $\geq 0.5$                  | Pass    |



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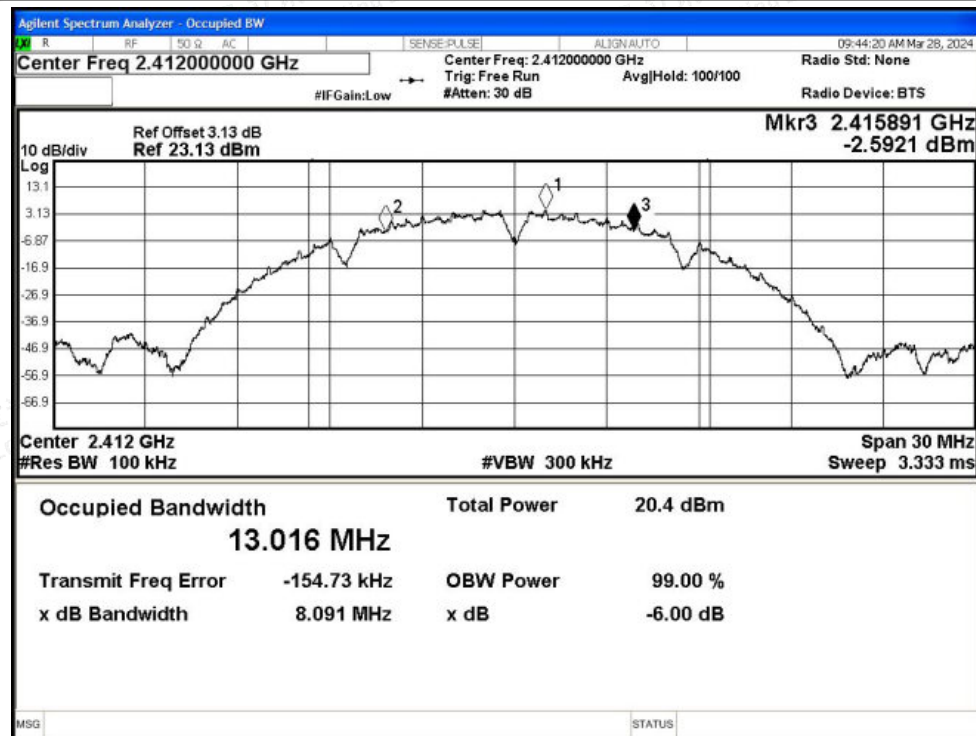
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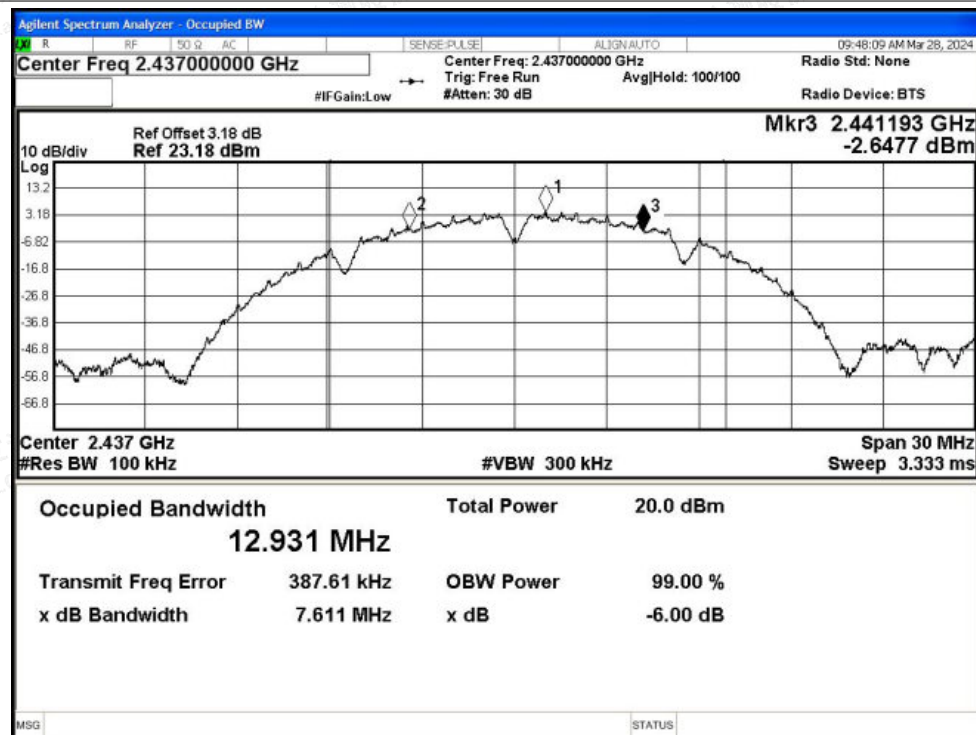


## Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1



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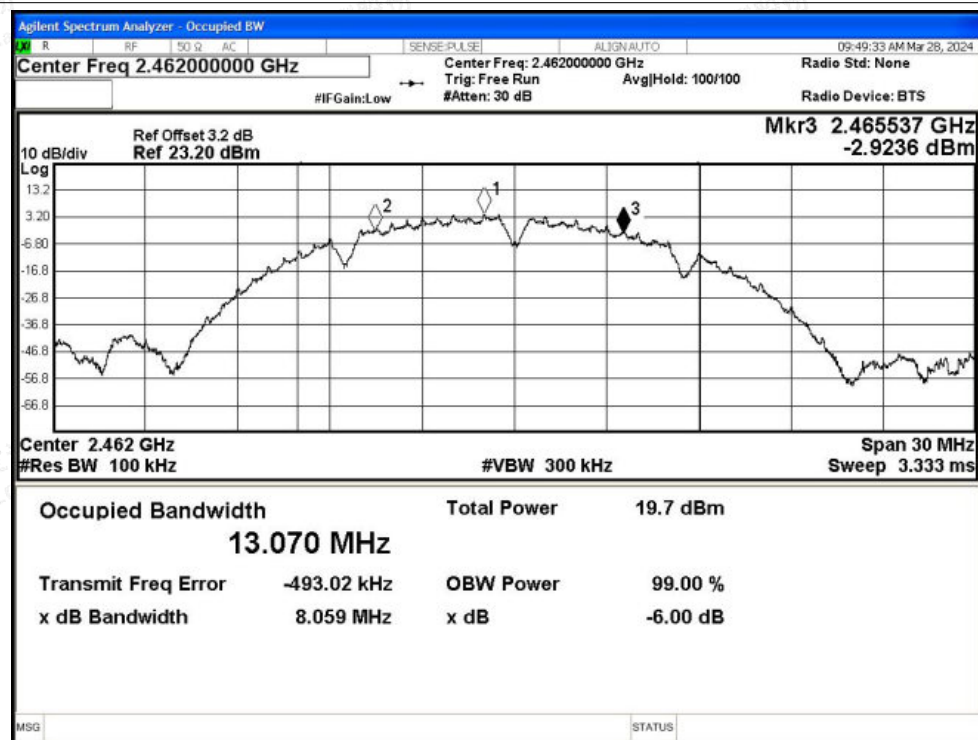
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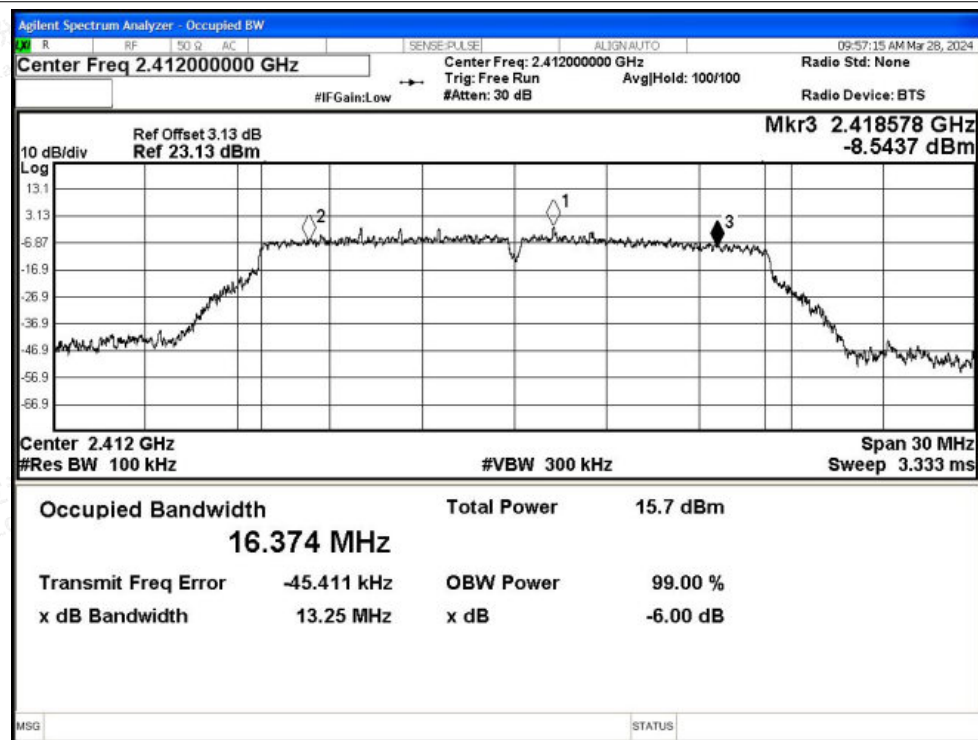
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## -6dB Bandwidth NVNT b 2462MHz Ant1



## -6dB Bandwidth NVNT g 2412MHz Ant1



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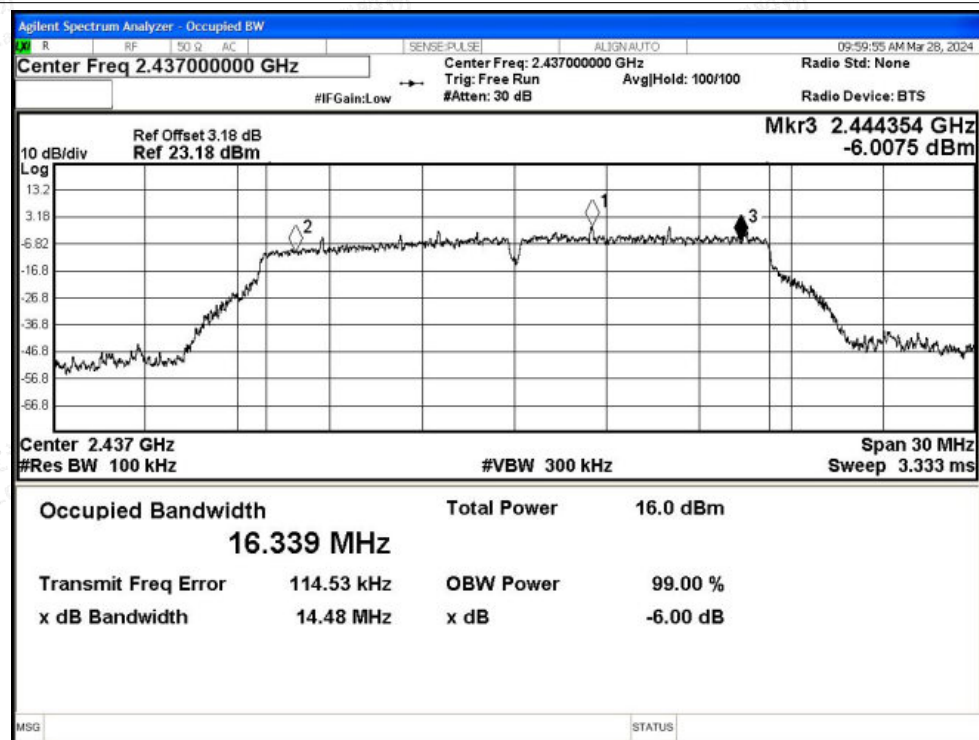
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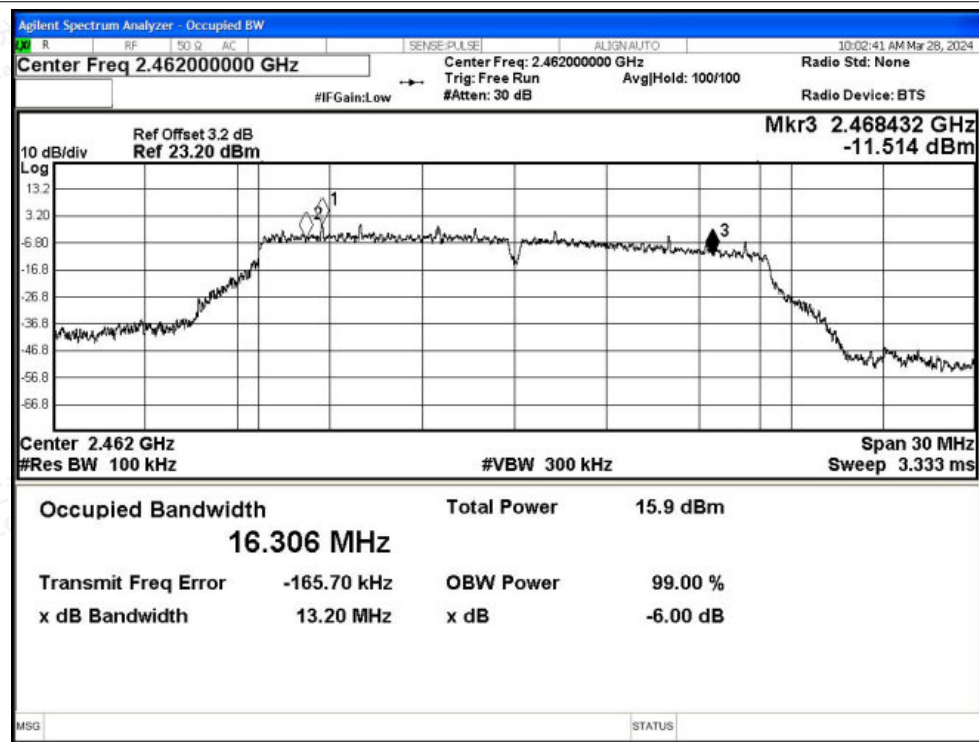
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## -6dB Bandwidth NVNT g 2437MHz Ant1



## -6dB Bandwidth NVNT g 2462MHz Ant1



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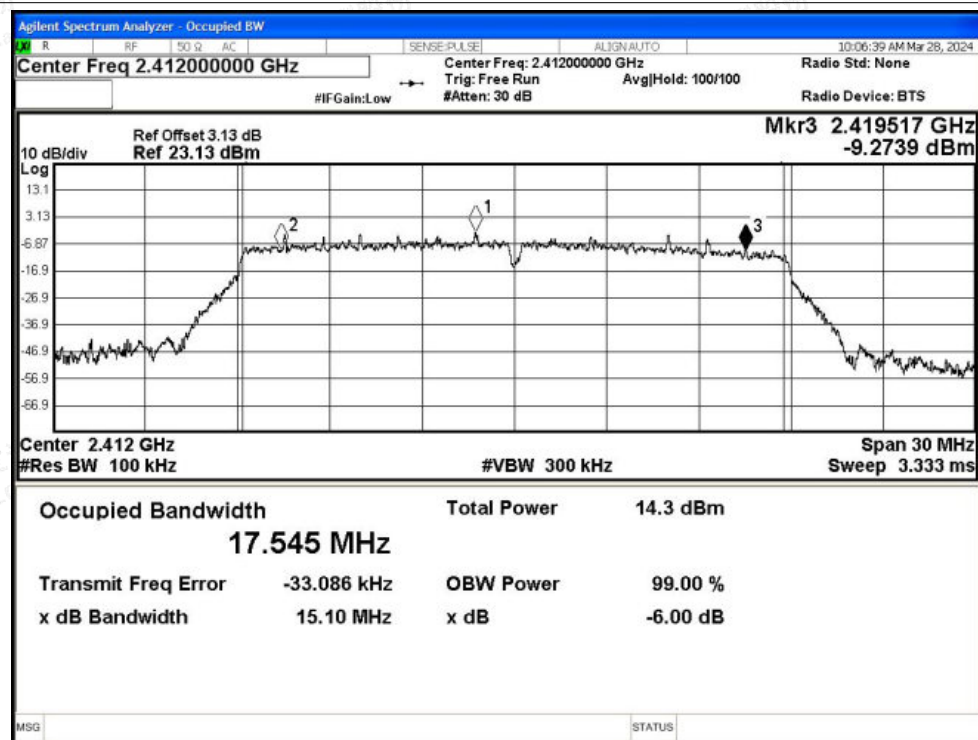
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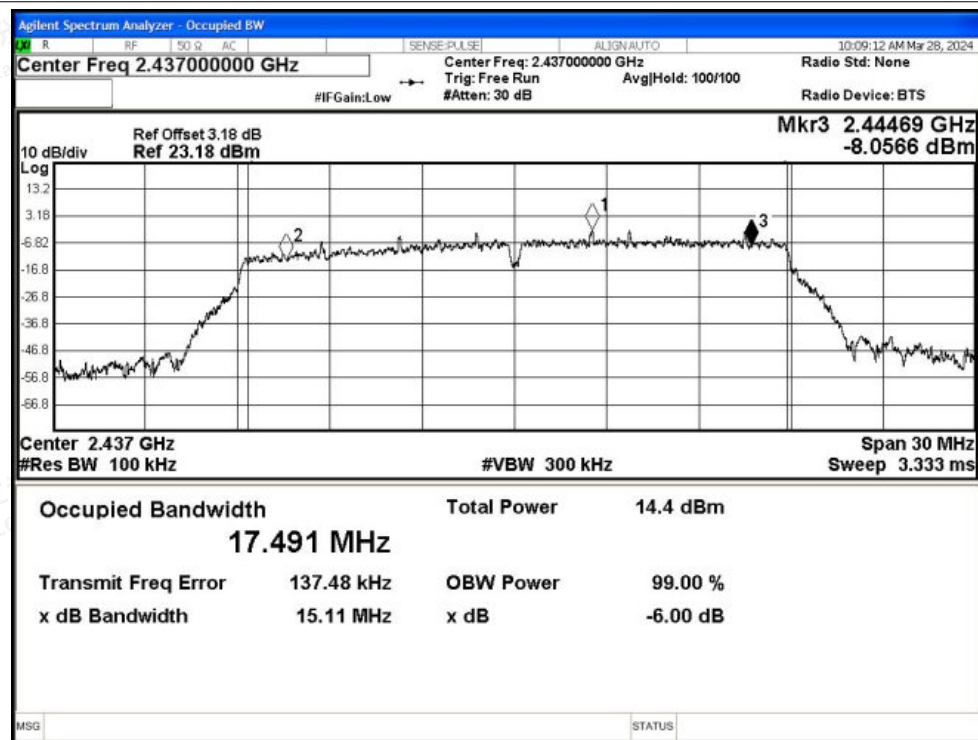
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## -6dB Bandwidth NVNT n20 2412MHz Ant1



## -6dB Bandwidth NVNT n20 2437MHz Ant1



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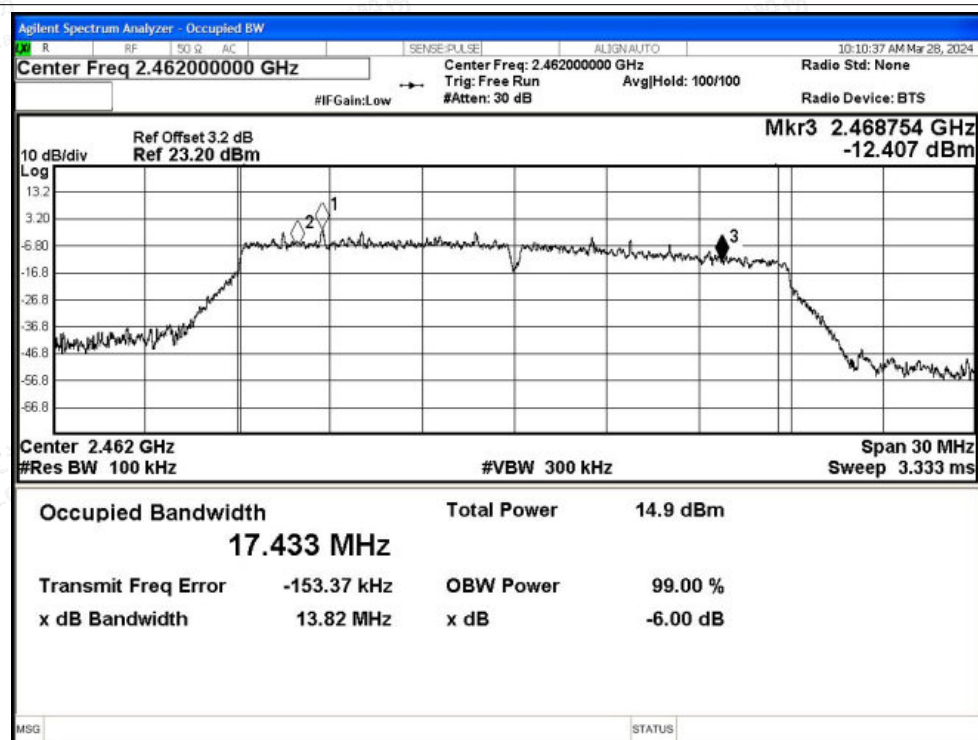
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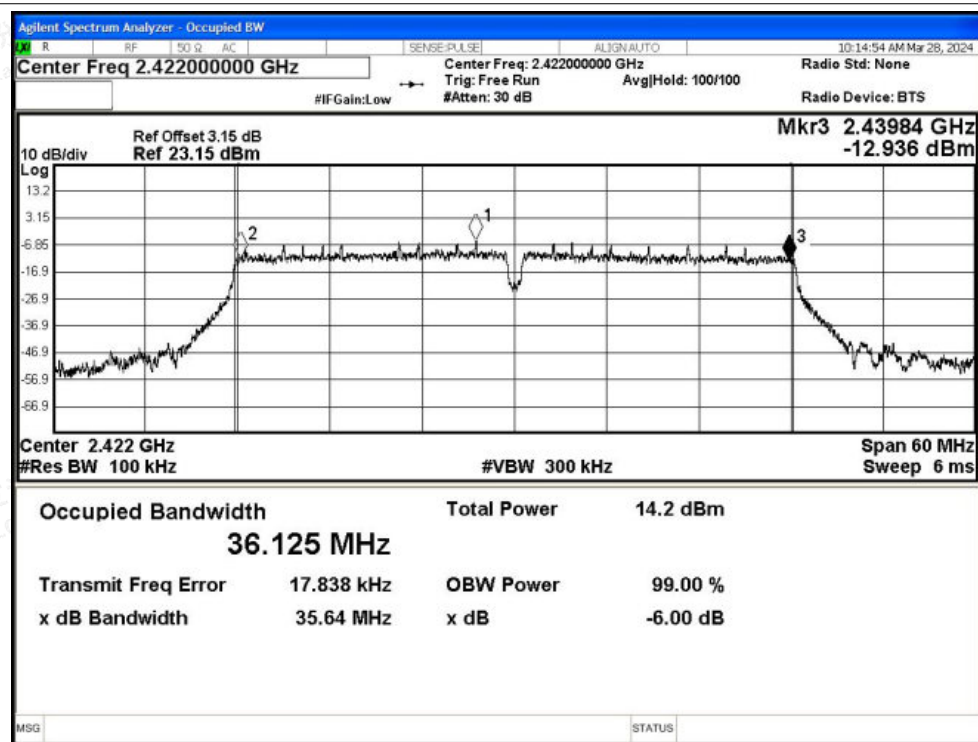
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## -6dB Bandwidth NVNT n20 2462MHz Ant1



## -6dB Bandwidth NVNT n40 2422MHz Ant1



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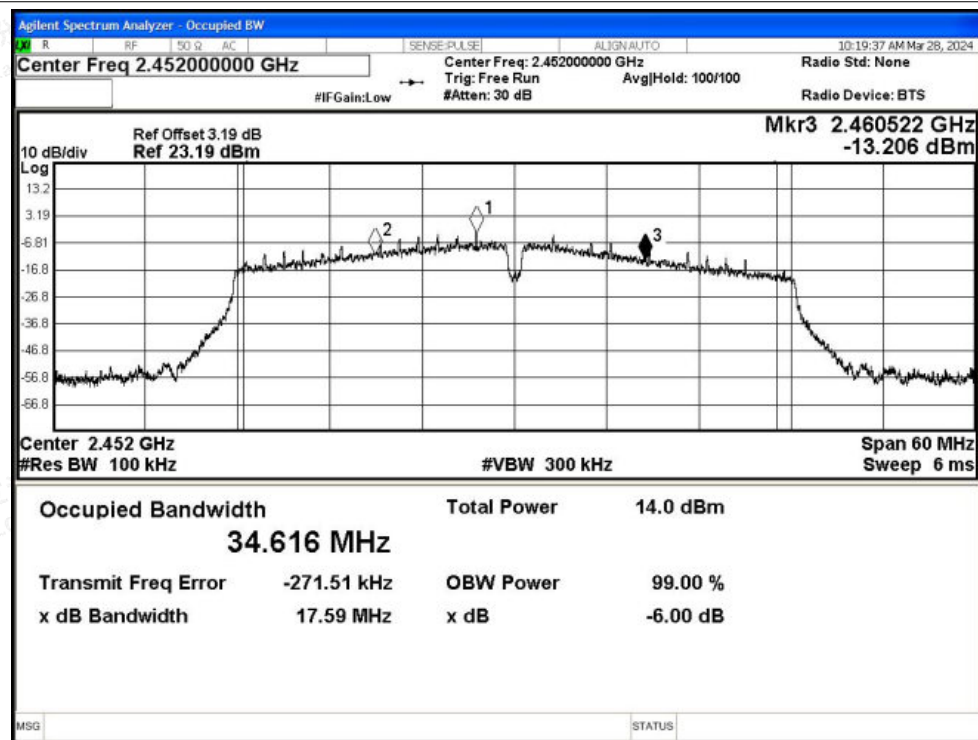
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## -6dB Bandwidth NVNT n40 2437MHz Ant1



## -6dB Bandwidth NVNT n40 2452MHz Ant1



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## C.2 Maximum Conducted Output Power

| Condition | Mode | Frequency (MHz) | Antenna | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-------------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | 15.71             | 30          | Pass    |
| NVNT      | b    | 2437            | Ant1    | 15.29             | 30          | Pass    |
| NVNT      | b    | 2462            | Ant1    | 15.09             | 30          | Pass    |
| NVNT      | g    | 2412            | Ant1    | 14.18             | 30          | Pass    |
| NVNT      | g    | 2437            | Ant1    | 14.78             | 30          | Pass    |
| NVNT      | g    | 2462            | Ant1    | 14.5              | 30          | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 13.07             | 30          | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 13.27             | 30          | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 13.66             | 30          | Pass    |
| NVNT      | n40  | 2422            | Ant1    | 12.66             | 30          | Pass    |
| NVNT      | n40  | 2437            | Ant1    | 12.81             | 30          | Pass    |
| NVNT      | n40  | 2452            | Ant1    | 12.53             | 30          | Pass    |



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### C.3 Maximum Power Spectral Density Level

| Condition | Mode | Frequency (MHz) | Antenna | Total PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|-----------|------|-----------------|---------|----------------------|------------------|---------|
| NVNT      | b    | 2412            | Ant1    | -9.58                | 8                | Pass    |
| NVNT      | b    | 2437            | Ant1    | -11.6                | 8                | Pass    |
| NVNT      | b    | 2462            | Ant1    | -10.1                | 8                | Pass    |
| NVNT      | g    | 2412            | Ant1    | -17.13               | 8                | Pass    |
| NVNT      | g    | 2437            | Ant1    | -15.97               | 8                | Pass    |
| NVNT      | g    | 2462            | Ant1    | -13.52               | 8                | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -18.27               | 8                | Pass    |
| NVNT      | n20  | 2437            | Ant1    | -17.75               | 8                | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -16.92               | 8                | Pass    |
| NVNT      | n40  | 2422            | Ant1    | -19.99               | 8                | Pass    |
| NVNT      | n40  | 2437            | Ant1    | -19.35               | 8                | Pass    |
| NVNT      | n40  | 2452            | Ant1    | -18.31               | 8                | Pass    |



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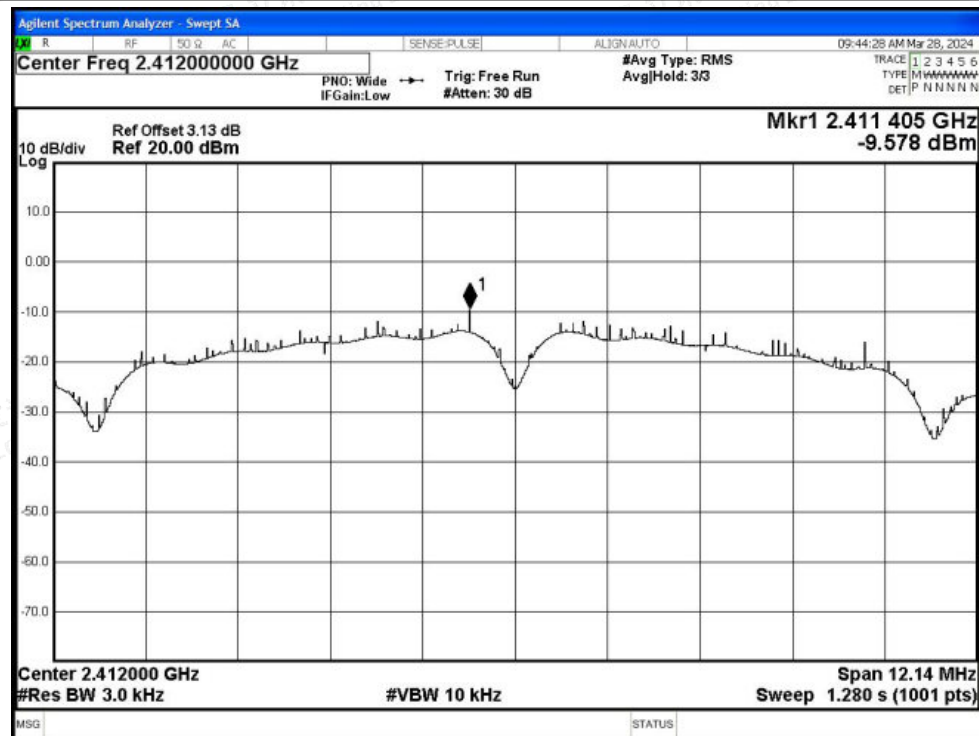
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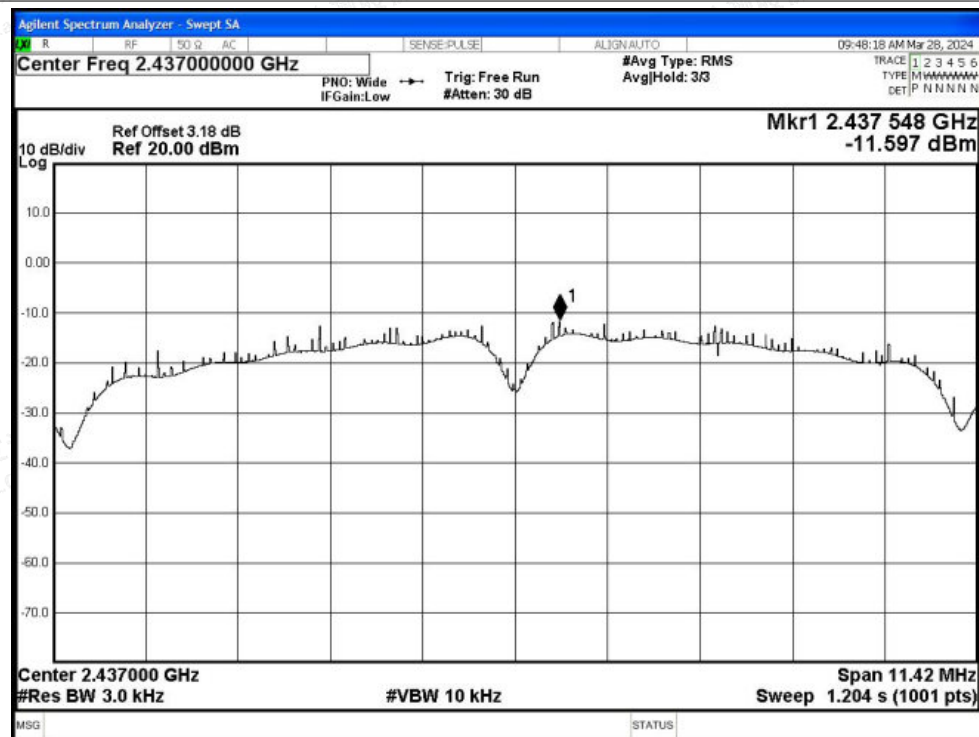


## Test Graphs

PSD NVNT b 2412MHz Ant1



PSD NVNT b 2437MHz Ant1



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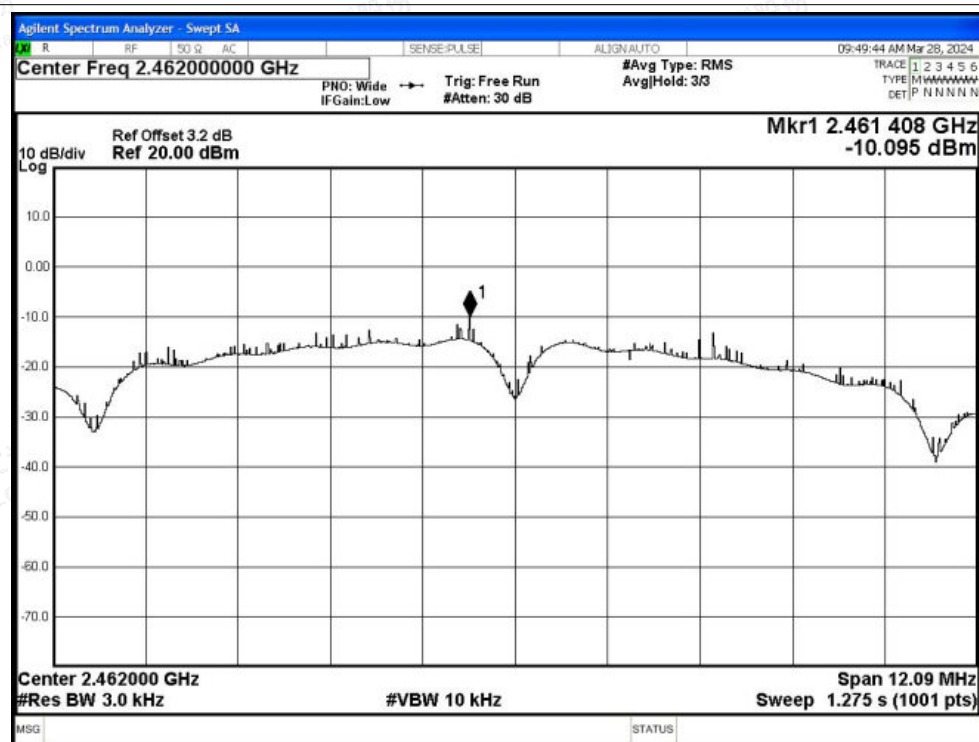
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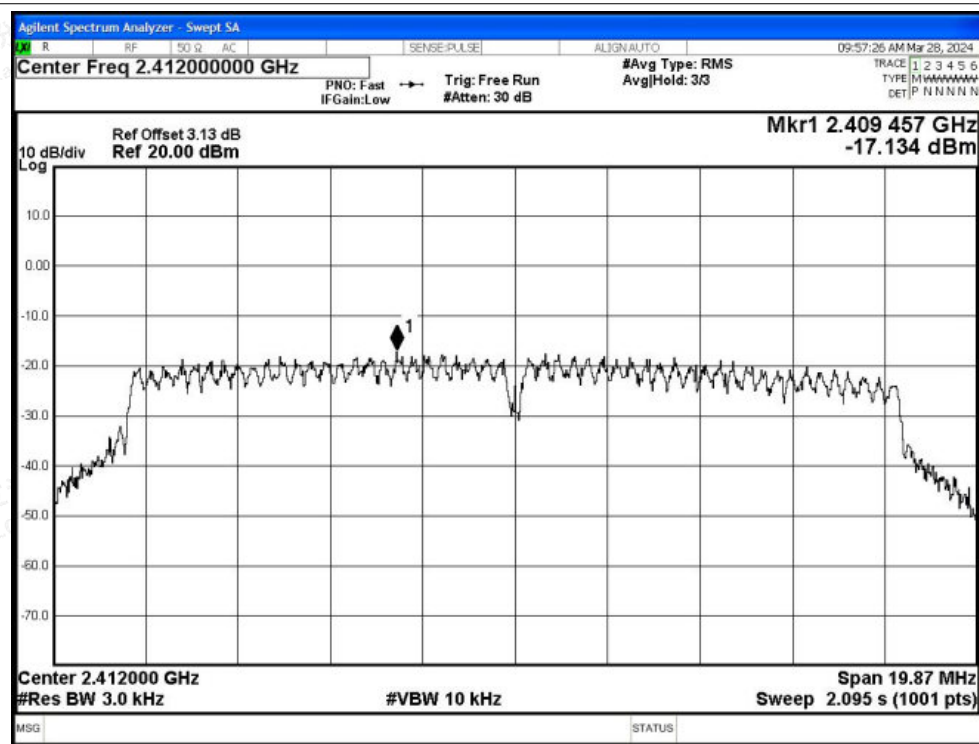
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PSD NVNT b 2462MHz Ant1



PSD NVNT g 2412MHz Ant1



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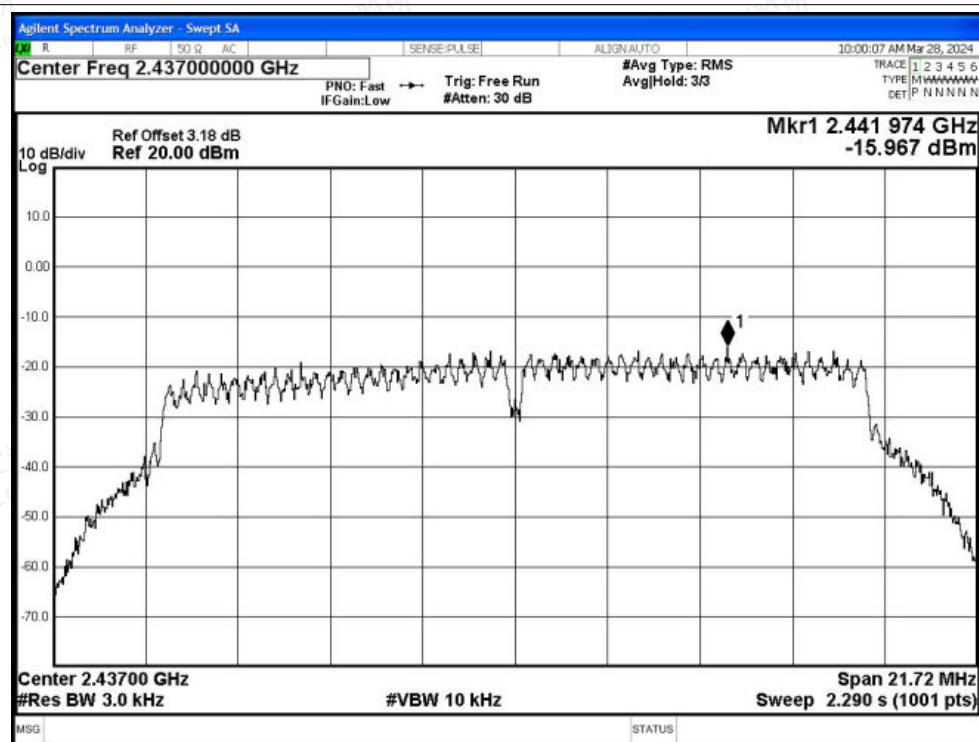
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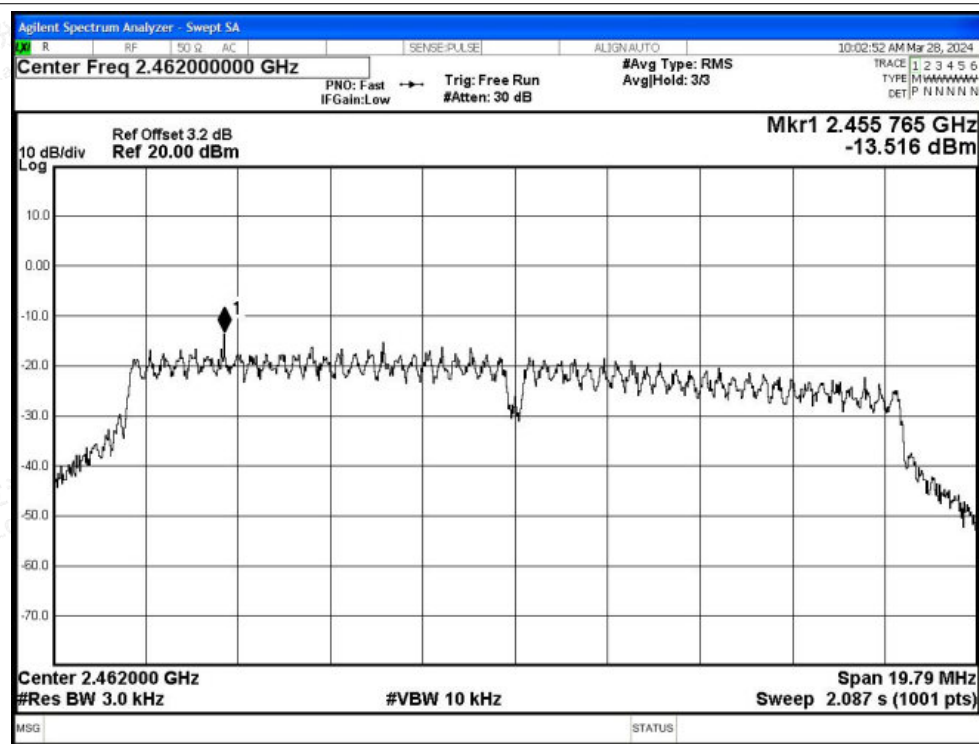
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PSD NVNT g 2437MHz Ant1



PSD NVNT g 2462MHz Ant1



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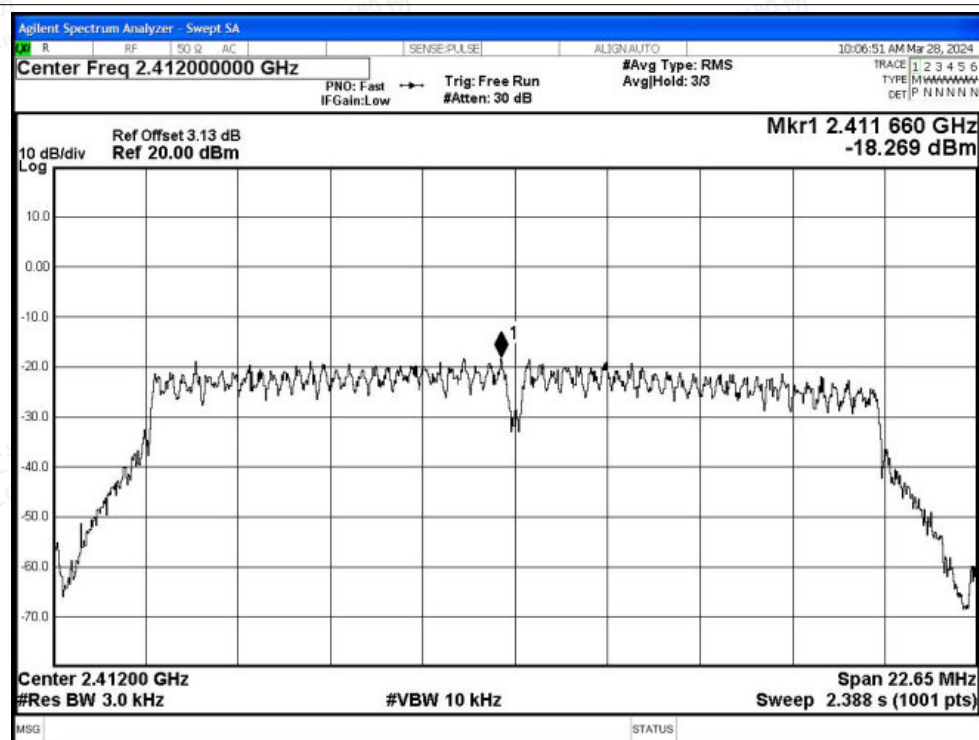
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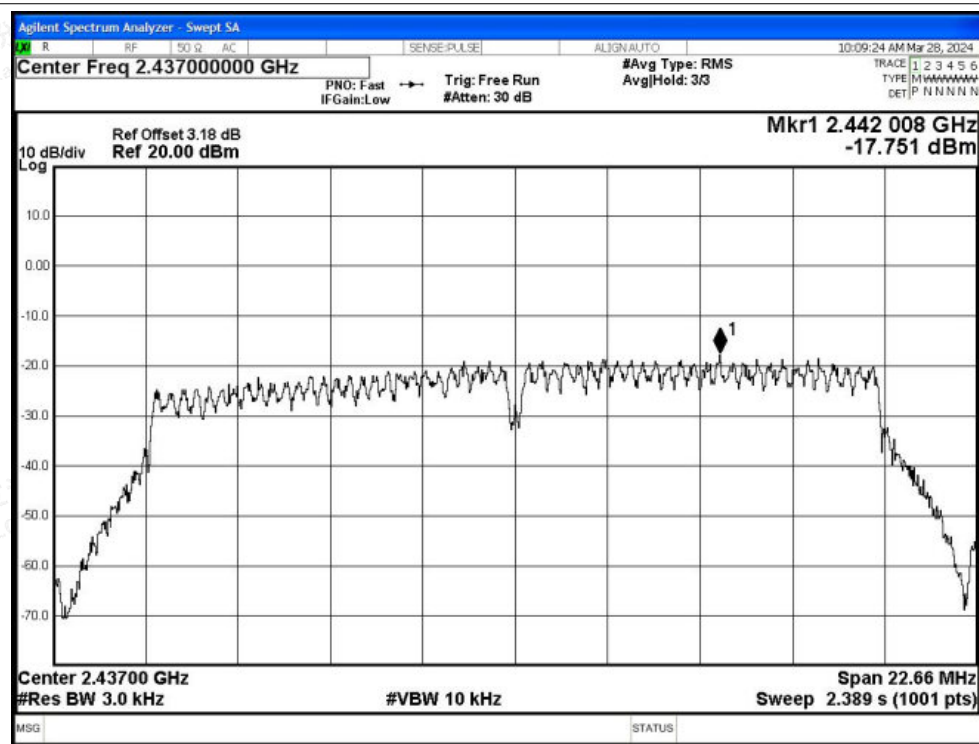
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PSD NVNT n20 2412MHz Ant1



PSD NVNT n20 2437MHz Ant1



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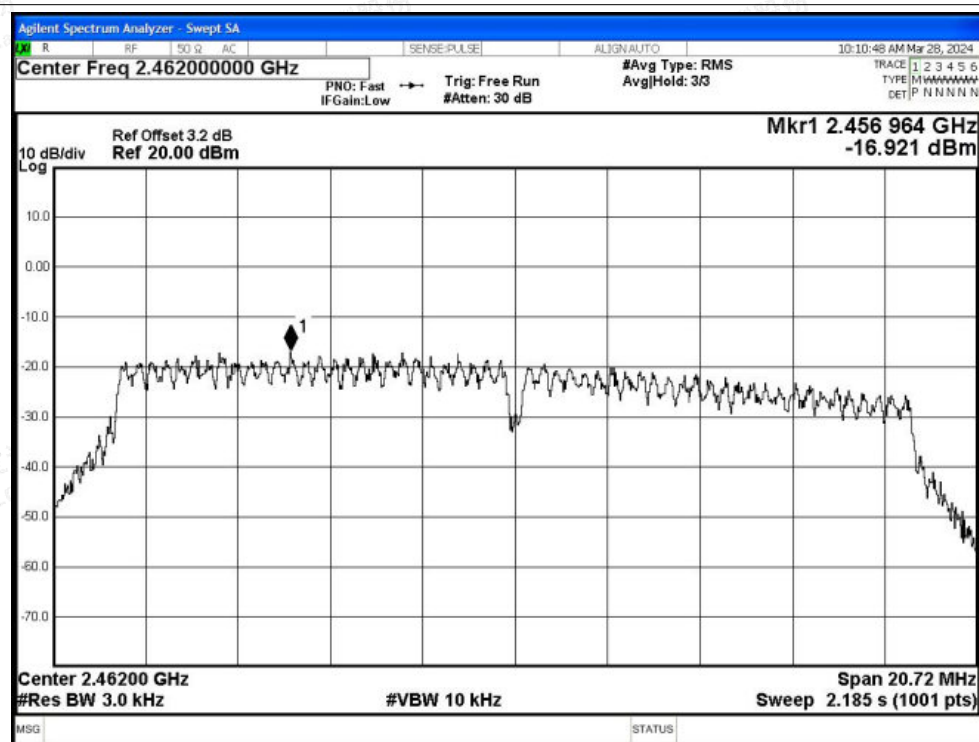
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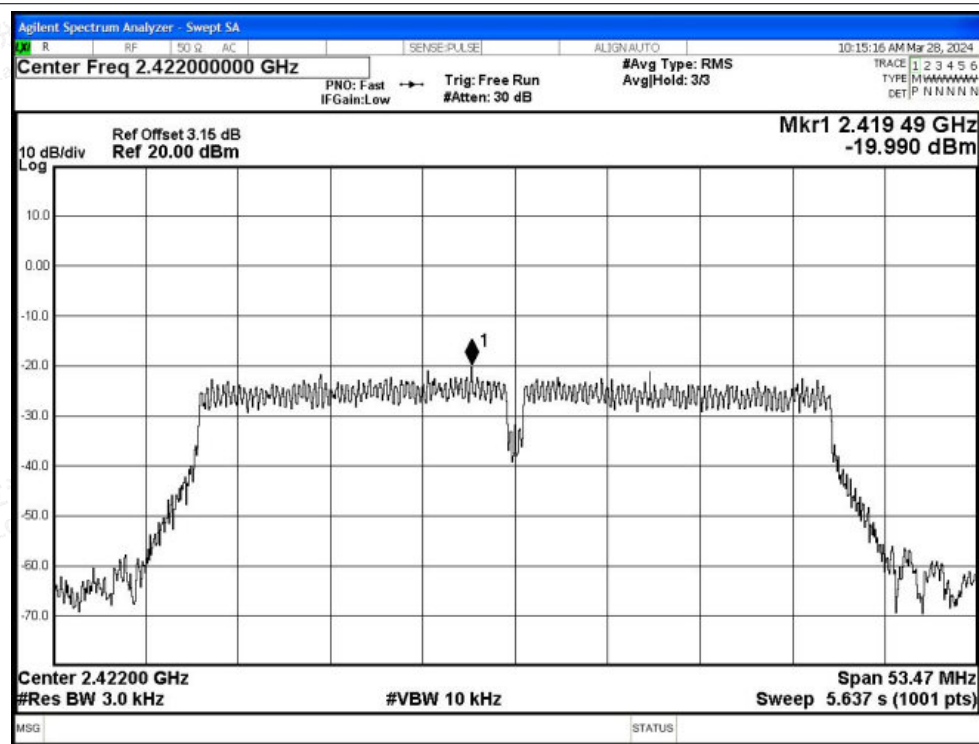
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PSD NVNT n20 2462MHz Ant1



PSD NVNT n40 2422MHz Ant1



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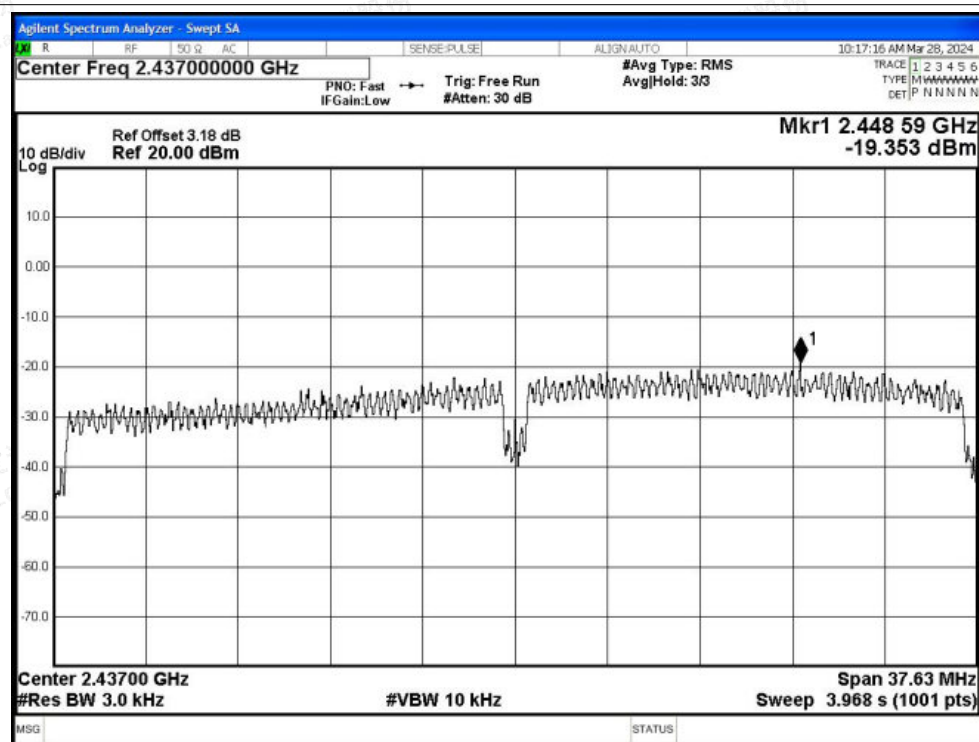
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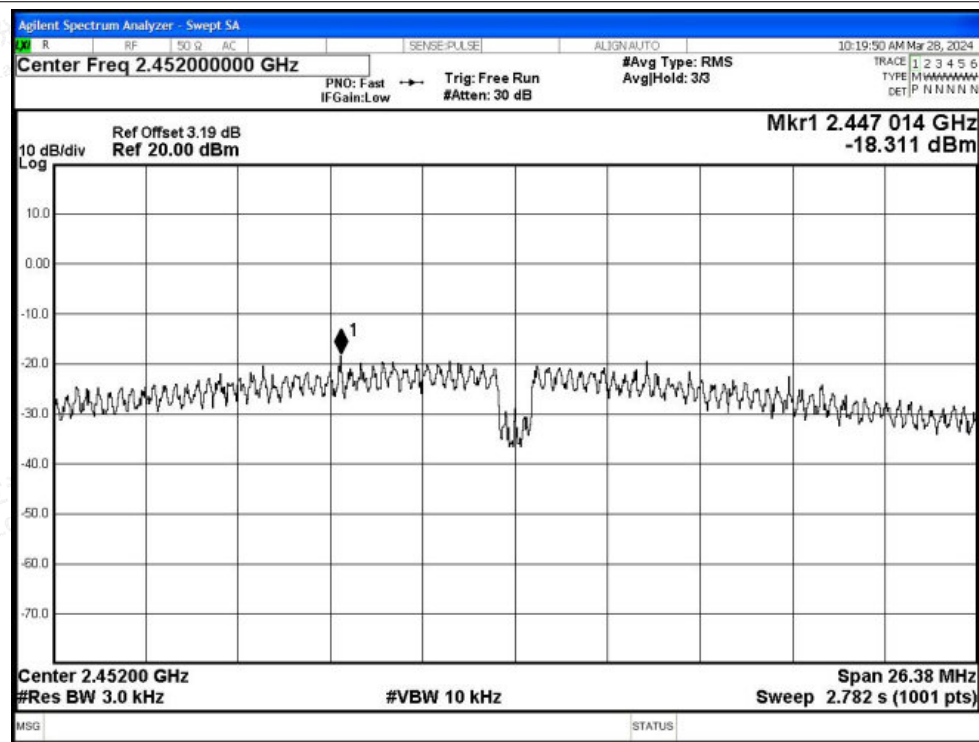
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PSD NVNT n40 2452MHz Ant1



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## C.4 Band Edge

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | -45.9           | -20         | Pass    |
| NVNT      | b    | 2462            | Ant1    | -56.52          | -20         | Pass    |
| NVNT      | g    | 2412            | Ant1    | -37.24          | -20         | Pass    |
| NVNT      | g    | 2462            | Ant1    | -50.27          | -20         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -40.47          | -20         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -51.7           | -20         | Pass    |
| NVNT      | n40  | 2422            | Ant1    | -38.35          | -20         | Pass    |
| NVNT      | n40  | 2452            | Ant1    | -49.77          | -20         | Pass    |



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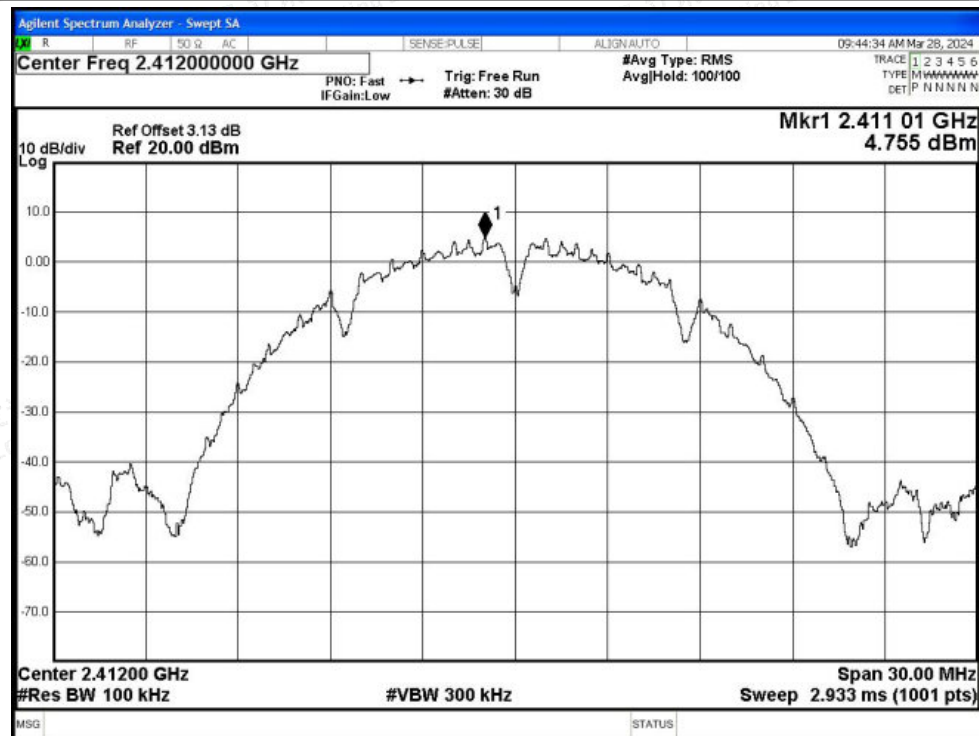
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## Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission



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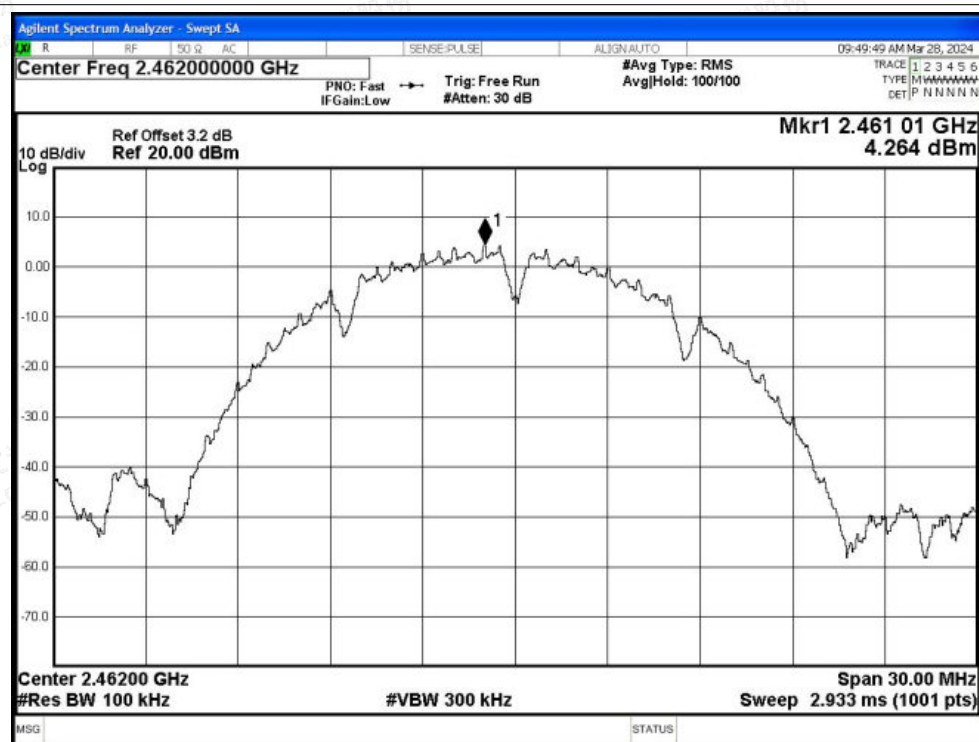
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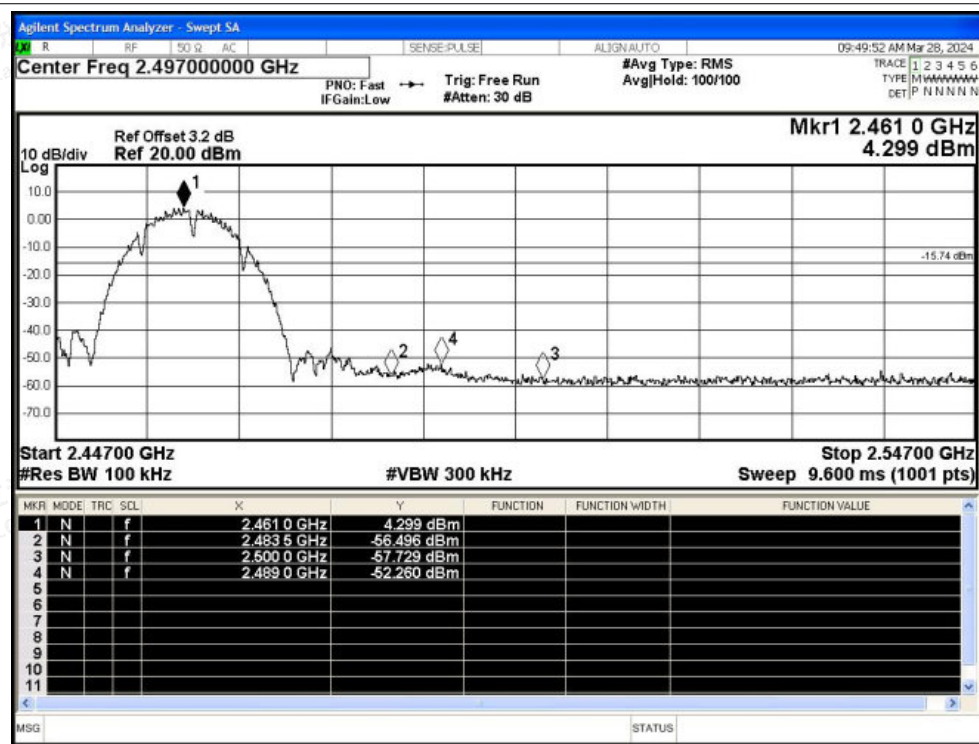
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## Band Edge NVNT b 2462MHz Ant1 Ref



## Band Edge NVNT b 2462MHz Ant1 Emission



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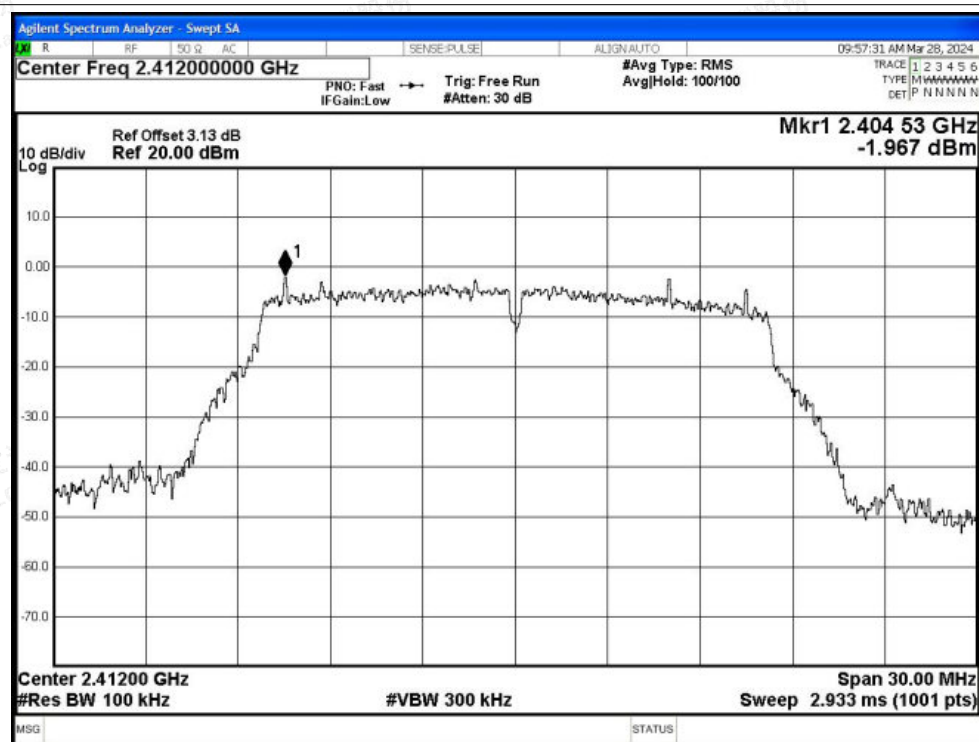
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## Band Edge NVNT g 2412MHz Ant1 Ref



## Band Edge NVNT g 2412MHz Ant1 Emission



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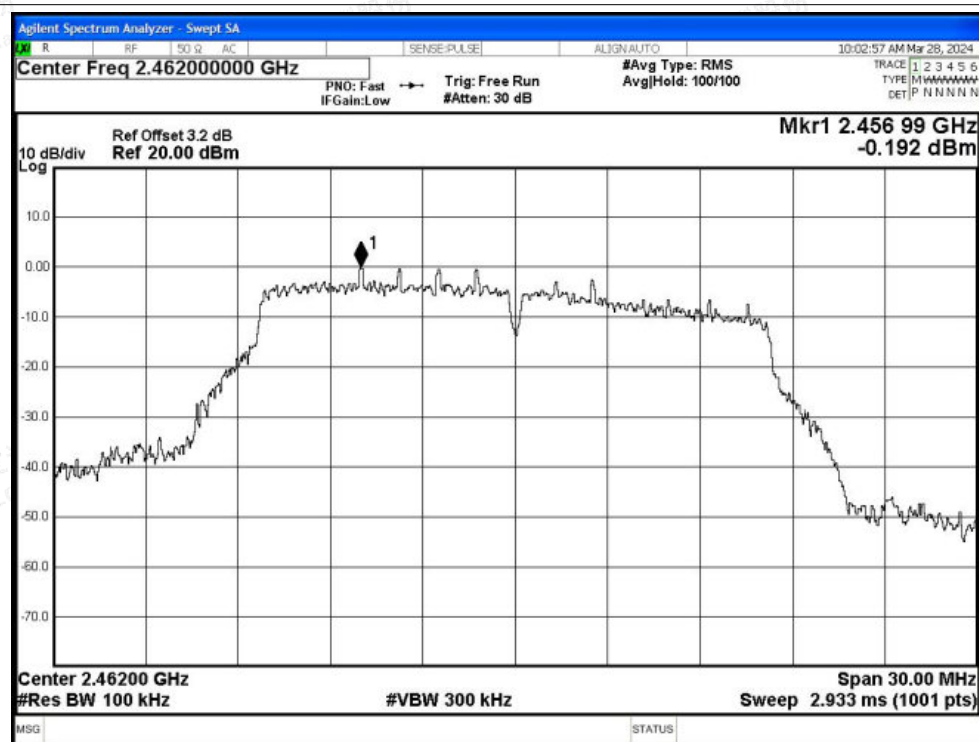
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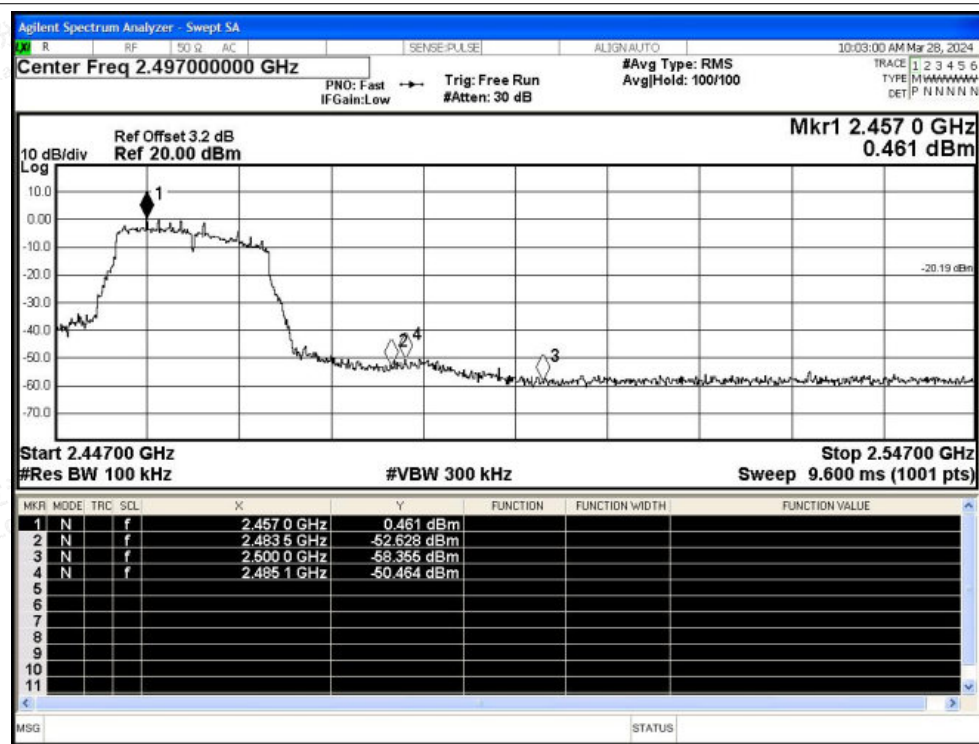
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## Band Edge NVNT g 2462MHz Ant1 Ref



## Band Edge NVNT g 2462MHz Ant1 Emission



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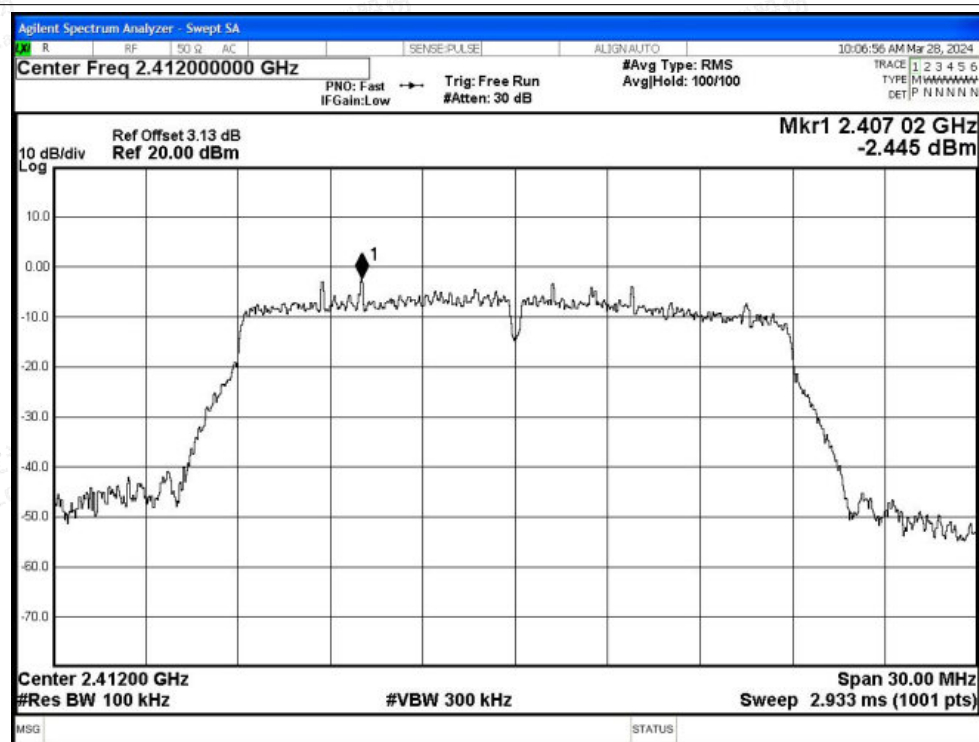
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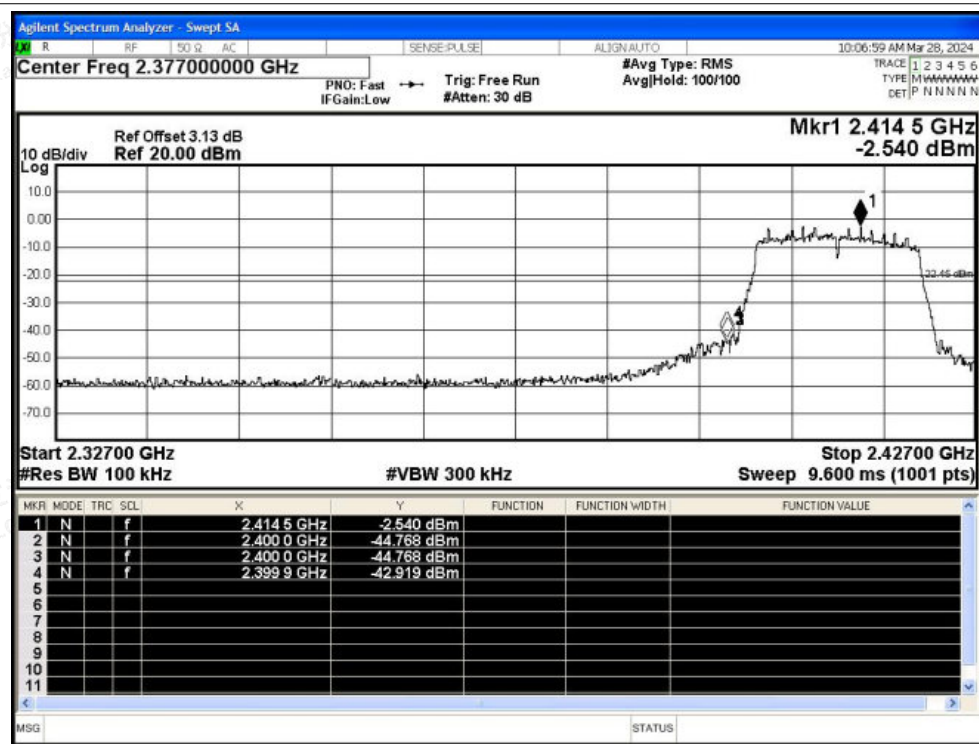
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## Band Edge NVNT n20 2412MHz Ant1 Ref



## Band Edge NVNT n20 2412MHz Ant1 Emission



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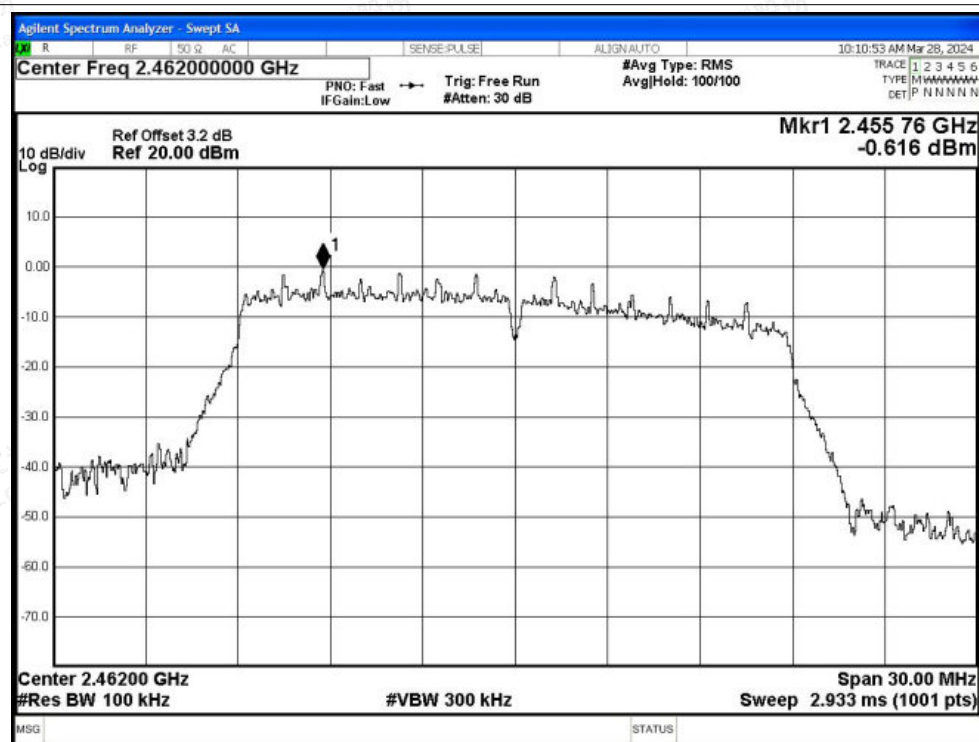
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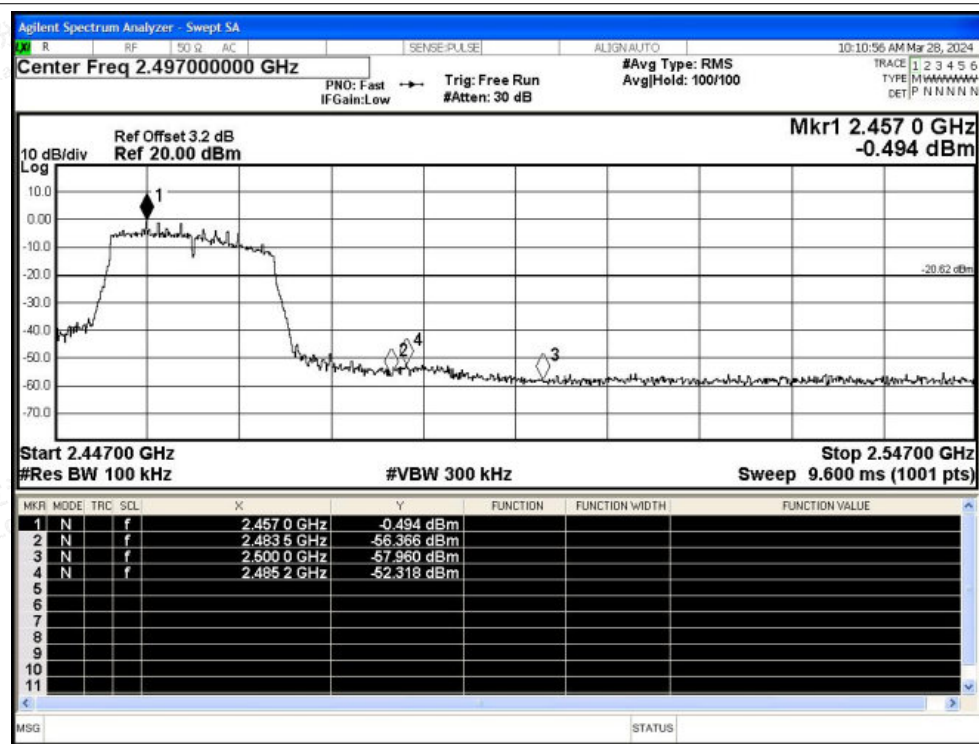
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## Band Edge NVNT n20 2462MHz Ant1 Emission



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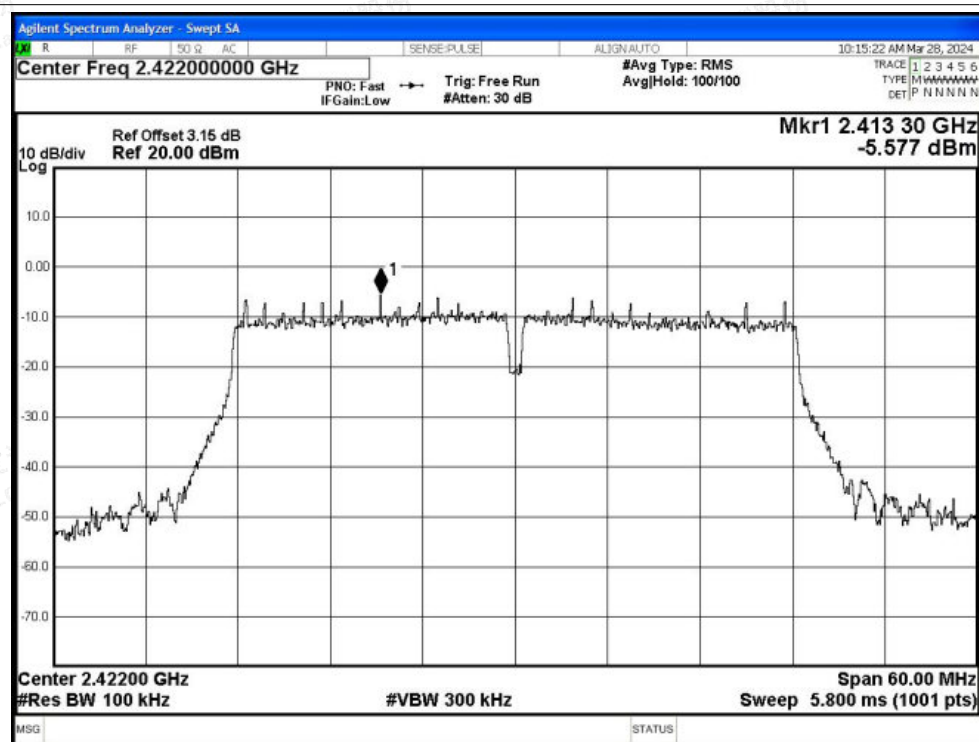
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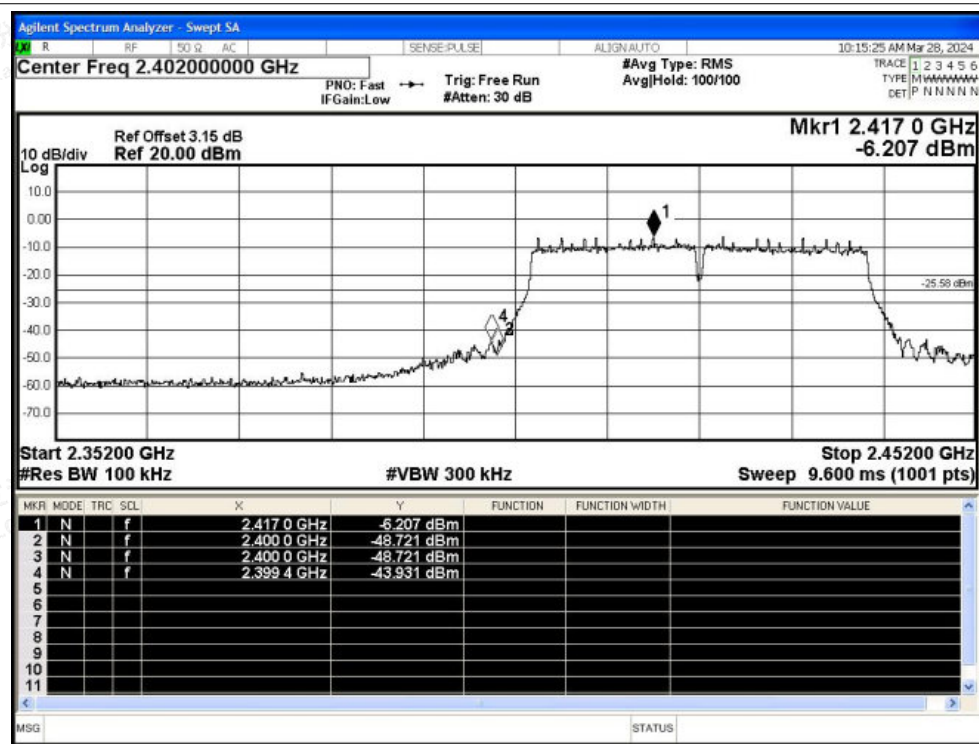
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## Band Edge NVNT n40 2422MHz Ant1 Ref



## Band Edge NVNT n40 2422MHz Ant1 Emission



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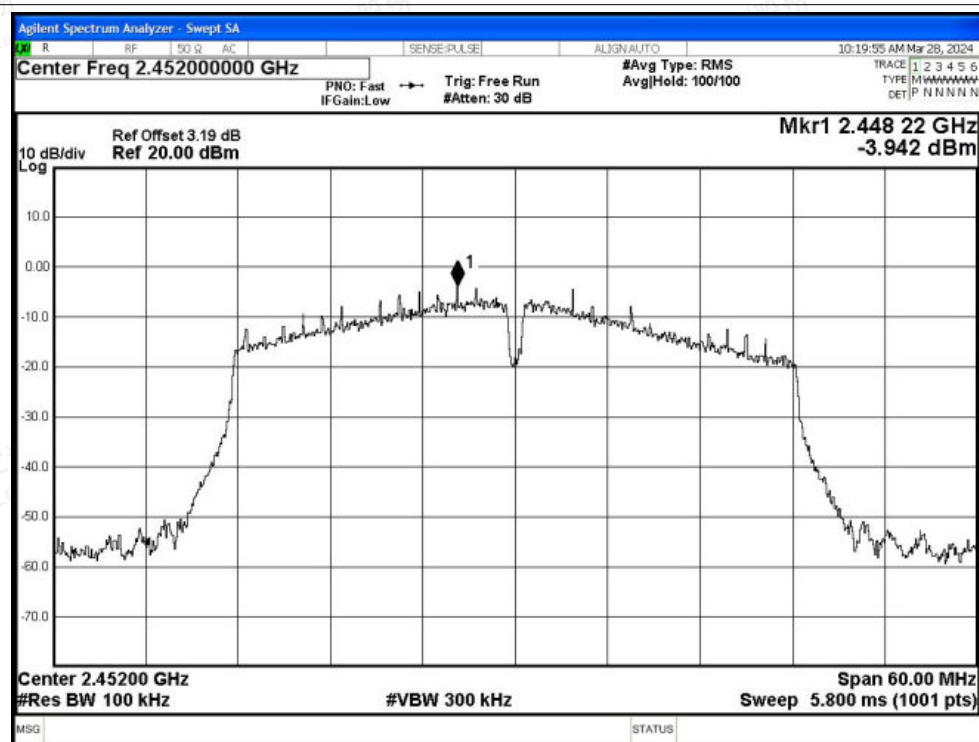
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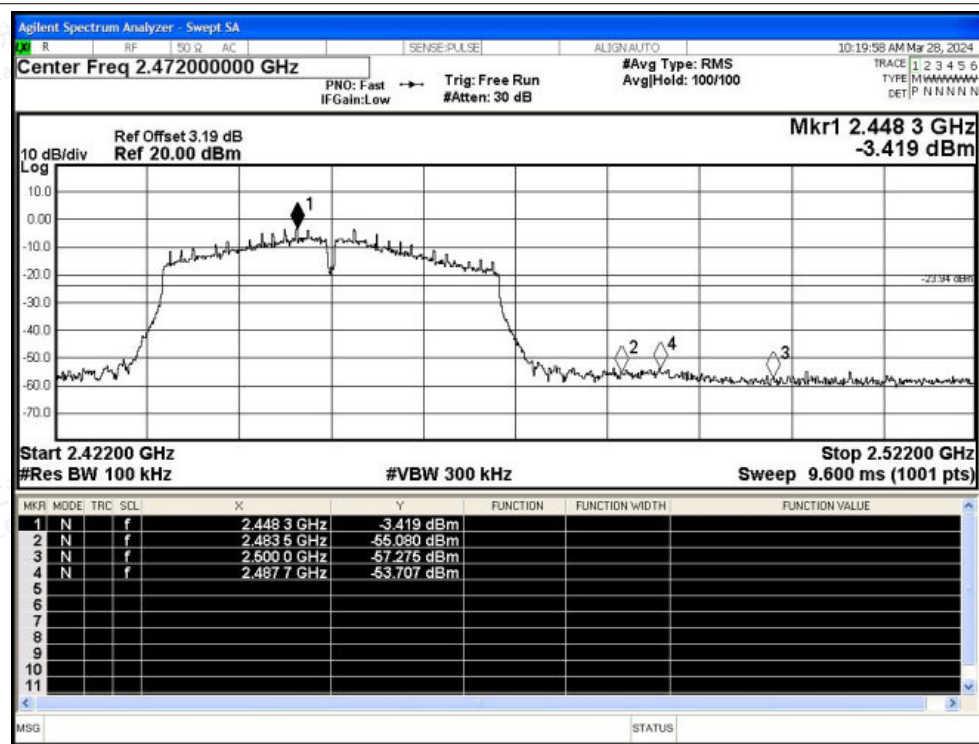
Scan code to check authenticity



## Band Edge NVNT n40 2452MHz Ant1 Ref



## Band Edge NVNT n40 2452MHz Ant1 Emission



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## C.5 Conducted RF Spurious Emission

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | -48.6           | -20         | Pass    |
| NVNT      | b    | 2437            | Ant1    | -49             | -20         | Pass    |
| NVNT      | b    | 2462            | Ant1    | -49.92          | -20         | Pass    |
| NVNT      | g    | 2412            | Ant1    | -45.2           | -20         | Pass    |
| NVNT      | g    | 2437            | Ant1    | -45.29          | -20         | Pass    |
| NVNT      | g    | 2462            | Ant1    | -45.88          | -20         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -43.67          | -20         | Pass    |
| NVNT      | n20  | 2437            | Ant1    | -43.95          | -20         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -45.1           | -20         | Pass    |
| NVNT      | n40  | 2422            | Ant1    | -39.96          | -20         | Pass    |
| NVNT      | n40  | 2437            | Ant1    | -40.31          | -20         | Pass    |
| NVNT      | n40  | 2452            | Ant1    | -41.58          | -20         | Pass    |



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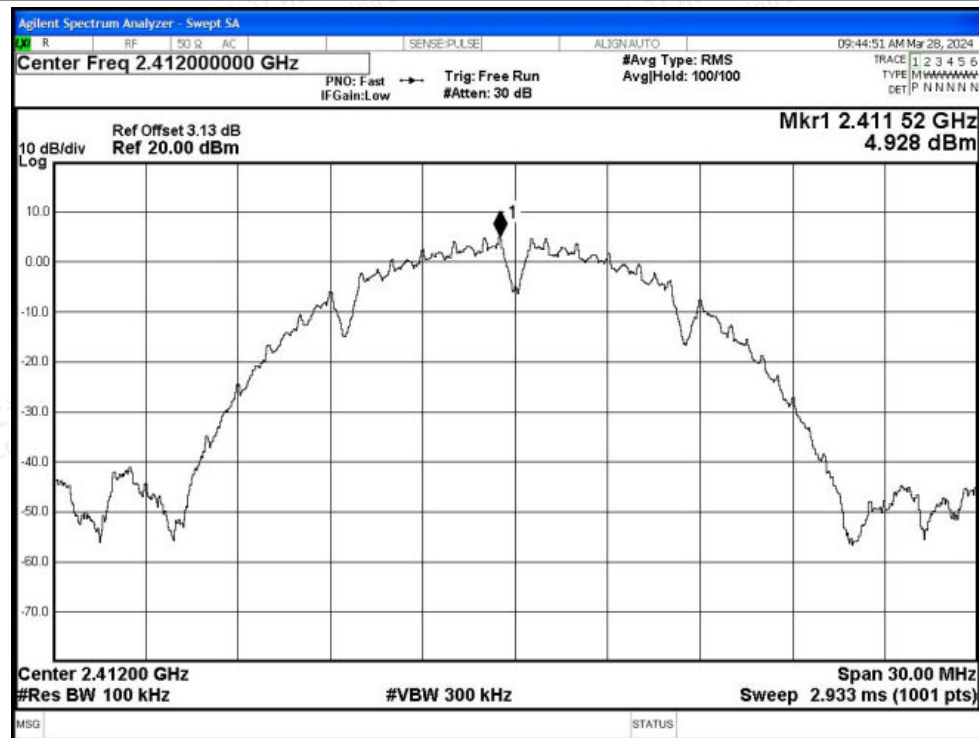
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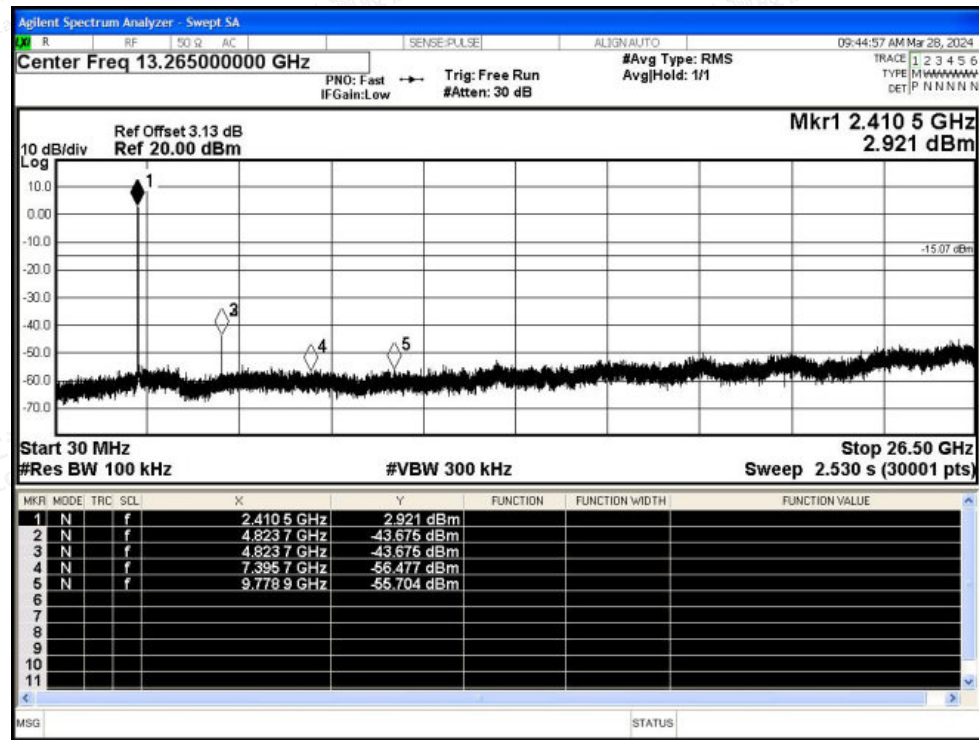


## Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



Tx. Spurious NVNT b 2412MHz Ant1 Emission



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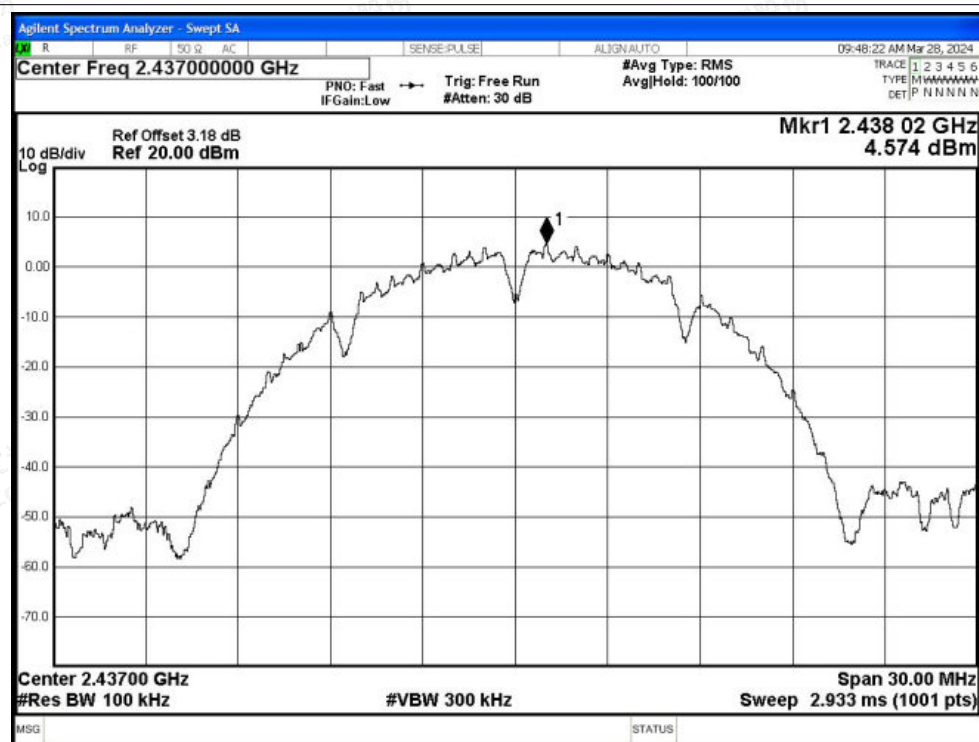
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

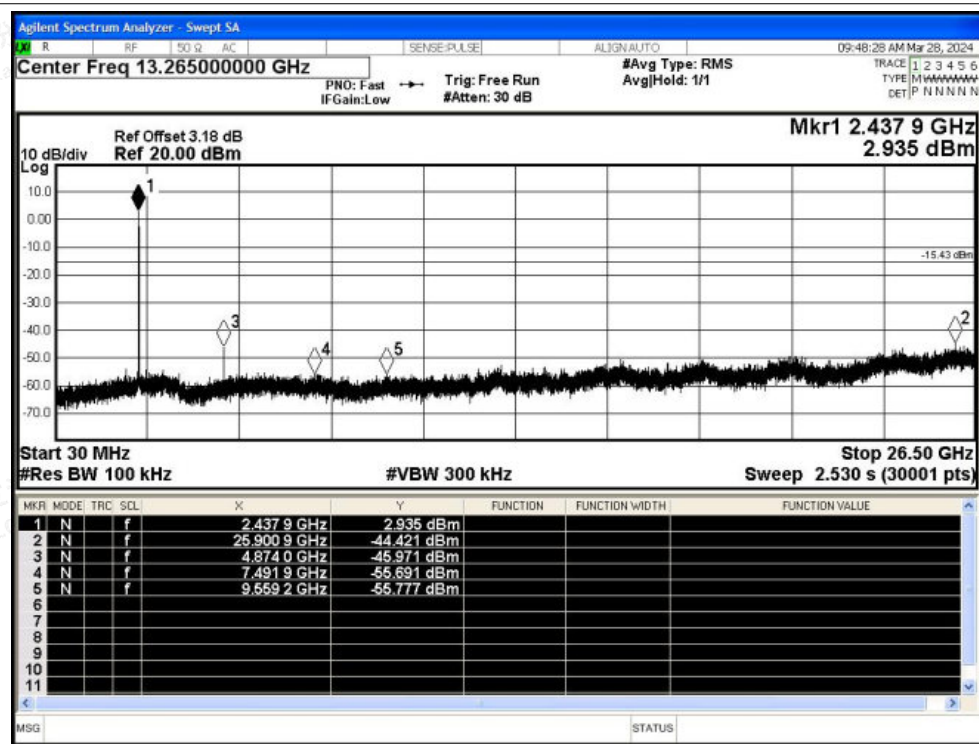
Scan code to check authenticity



## Tx. Spurious NVNT b 2437MHz Ant1 Ref



## Tx. Spurious NVNT b 2437MHz Ant1 Emission



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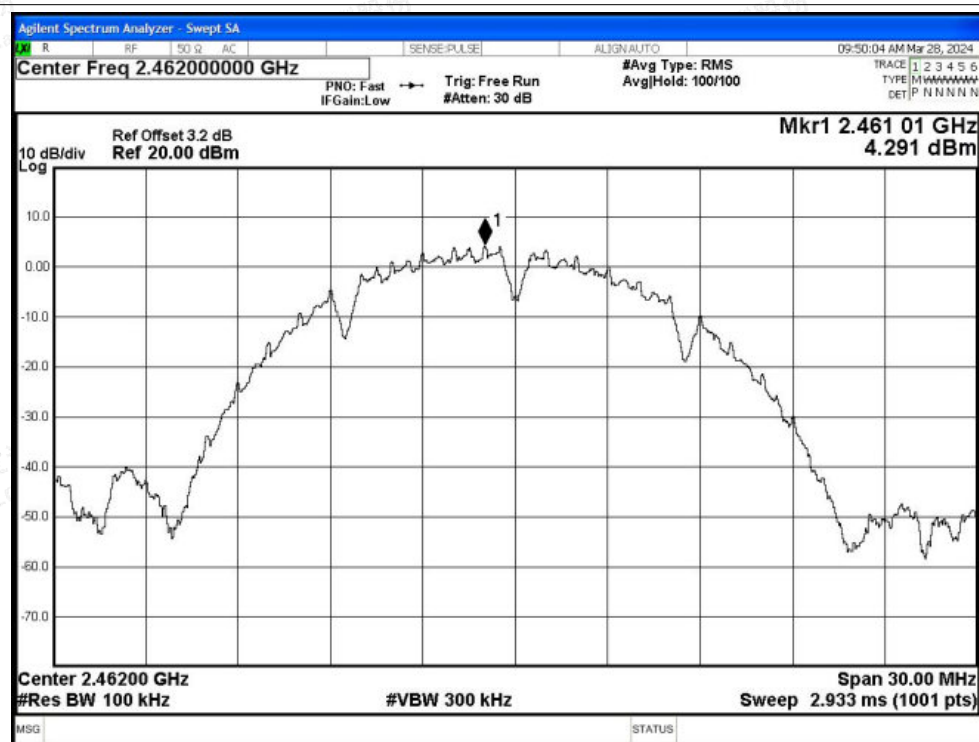
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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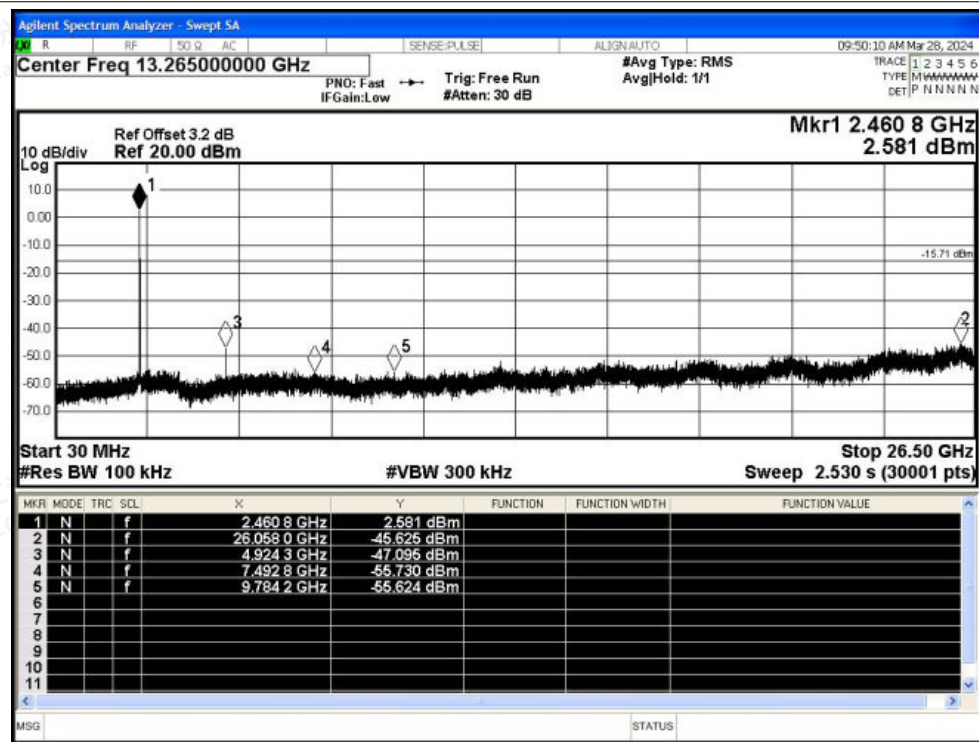
Scan code to check authenticity



## Tx. Spurious NVNT b 2462MHz Ant1 Ref



## Tx. Spurious NVNT b 2462MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

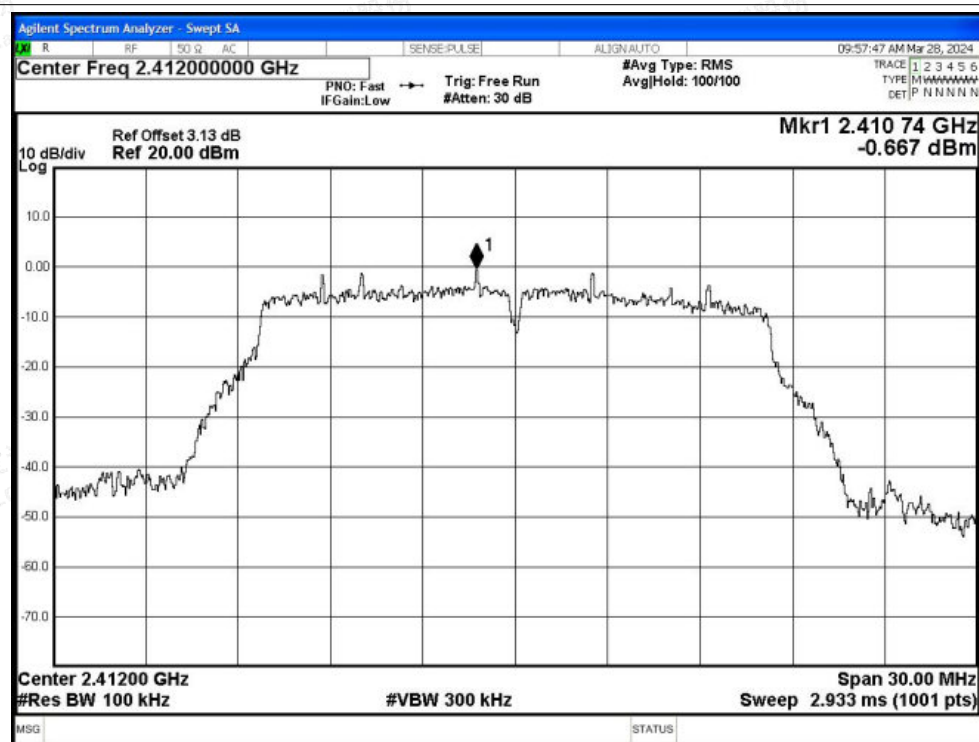
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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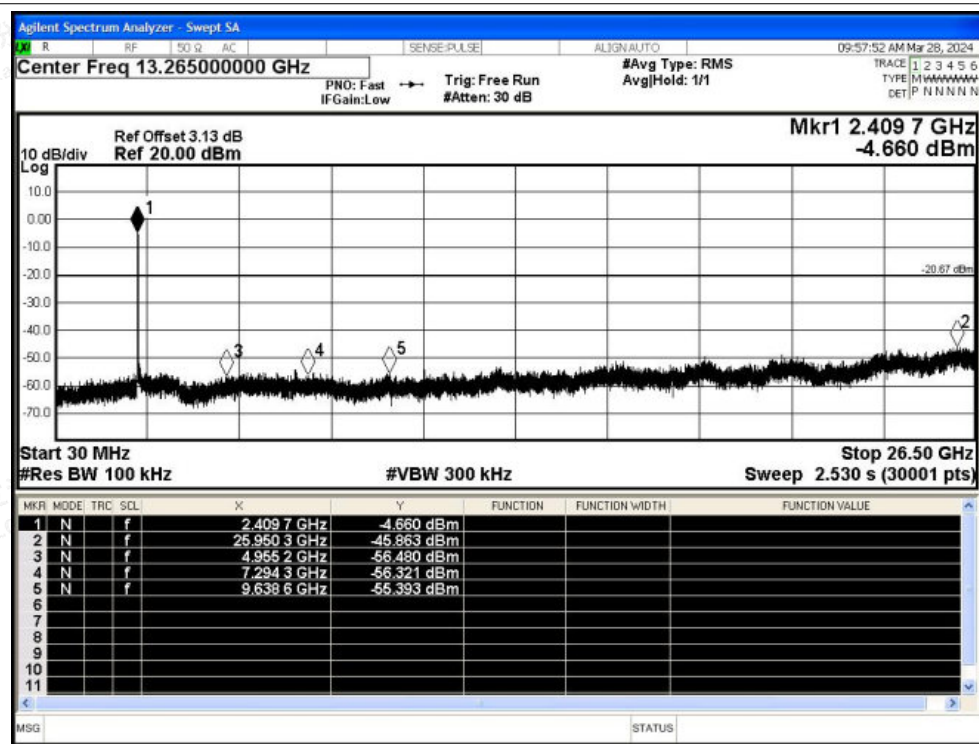
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## Tx. Spurious NVNT g 2412MHz Ant1 Ref



## Tx. Spurious NVNT g 2412MHz Ant1 Emission



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