



## Appendix A

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

Product Name: 1300Mbps USB WiFi Adapter

Test Model: 2505014

#### Environmental Conditions

|                    |            |
|--------------------|------------|
| Temperature:       | 23.5°C     |
| Relative Humidity: | 52.1%      |
| ATM Pressure:      | 100.0 kPa  |
| Test Engineer:     | Paddi Chen |
| 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      | b    | 2412            | Ant1    | 8.541                 | $\geq 0.5$                  | Pass    |
| NVNT      | b    | 2437            | Ant1    | 8.073                 | $\geq 0.5$                  | Pass    |
| NVNT      | b    | 2462            | Ant1    | 8.54                  | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2412            | Ant1    | 15.941                | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2437            | Ant1    | 16.333                | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2462            | Ant1    | 16.324                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 17.214                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 17.377                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 17.09                 | $\geq 0.5$                  | Pass    |
| NVNT      | n40  | 2422            | Ant1    | 34.82                 | $\geq 0.5$                  | Pass    |
| NVNT      | n40  | 2437            | Ant1    | 35.888                | $\geq 0.5$                  | Pass    |
| NVNT      | n40  | 2452            | Ant1    | 35.195                | $\geq 0.5$                  | Pass    |





## Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1



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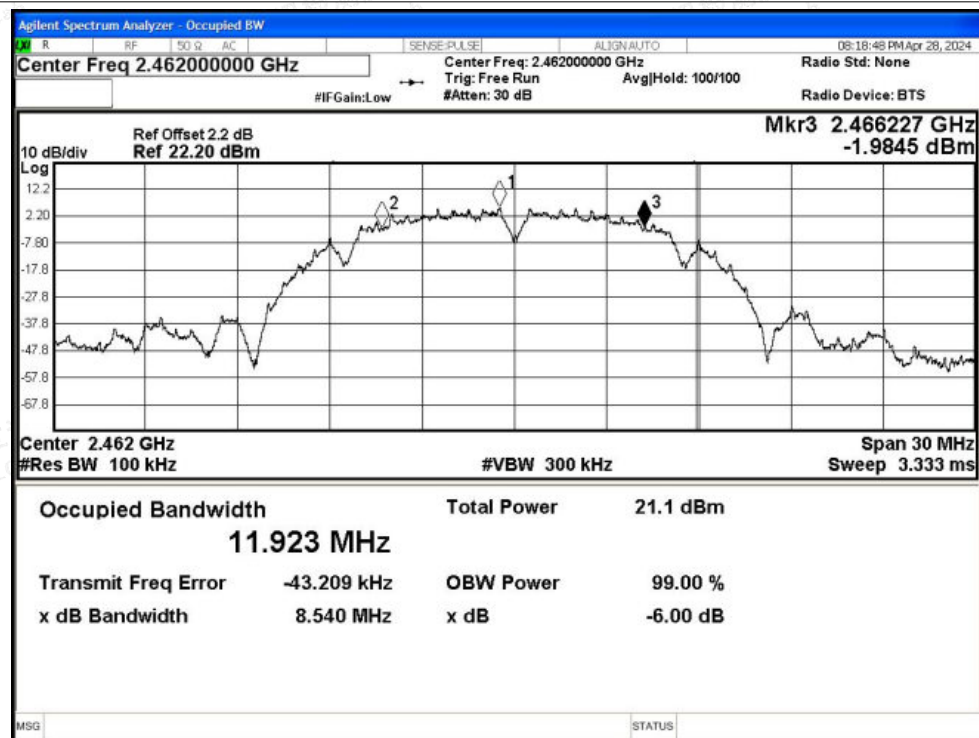
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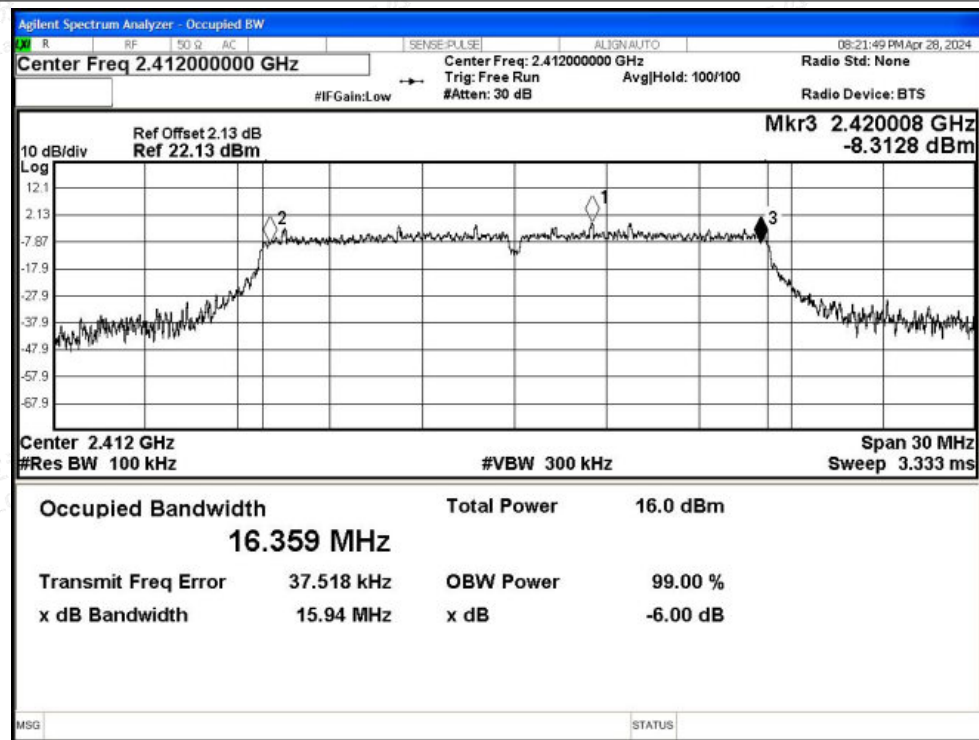
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-6dB Bandwidth NVNT b 2462MHz Ant1



-6dB Bandwidth NVNT g 2412MHz Ant1



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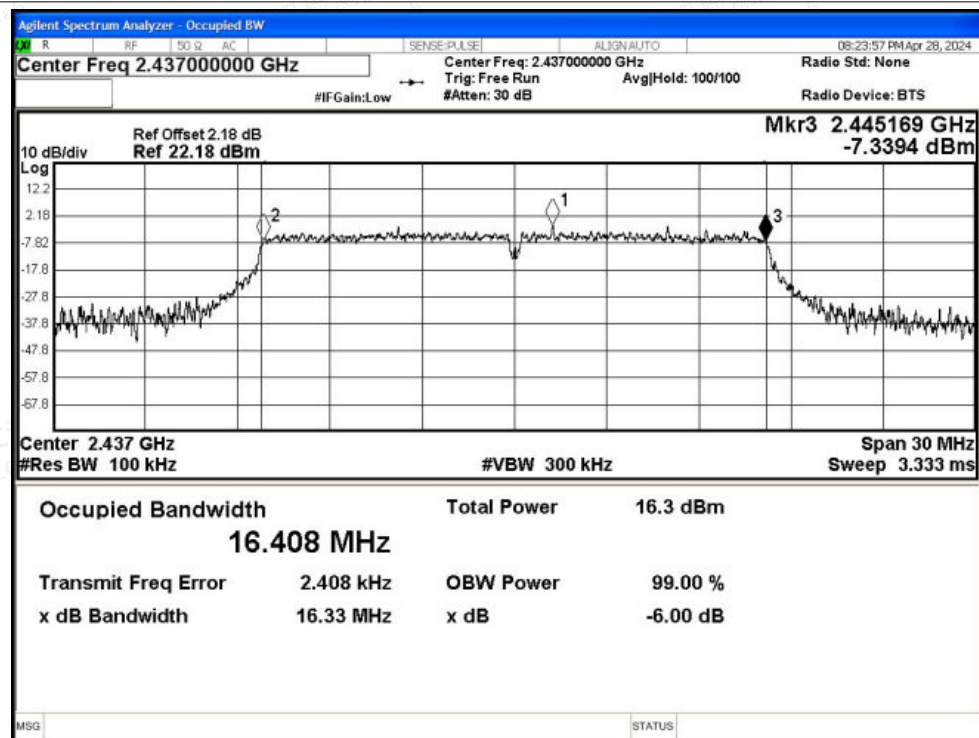
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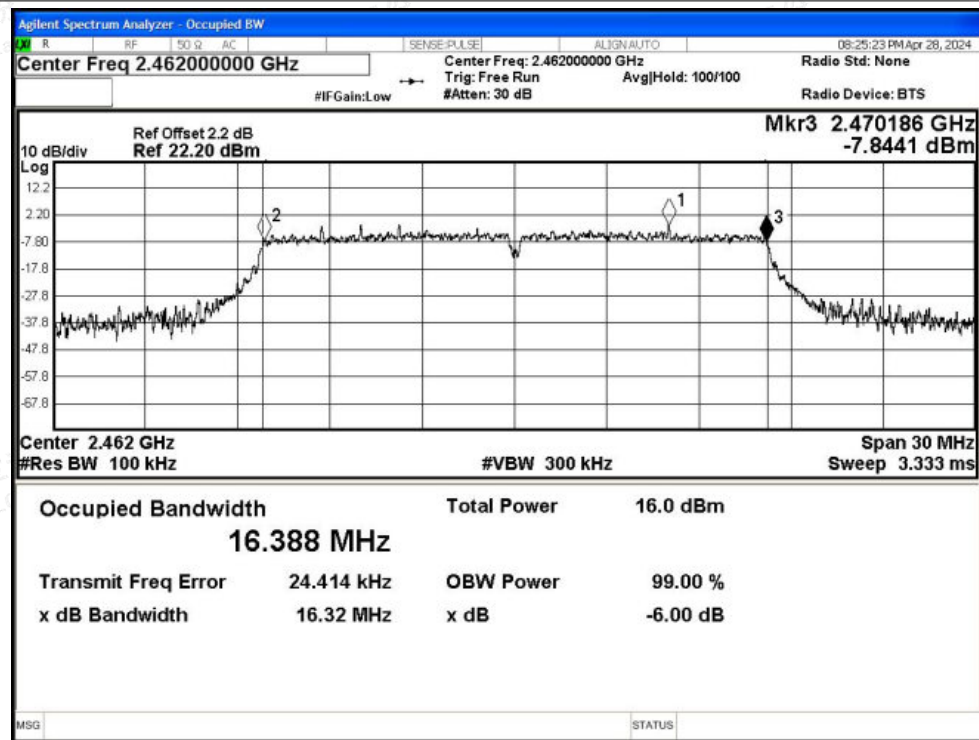
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-6dB Bandwidth NVNT g 2437MHz Ant1



-6dB Bandwidth NVNT g 2462MHz Ant1



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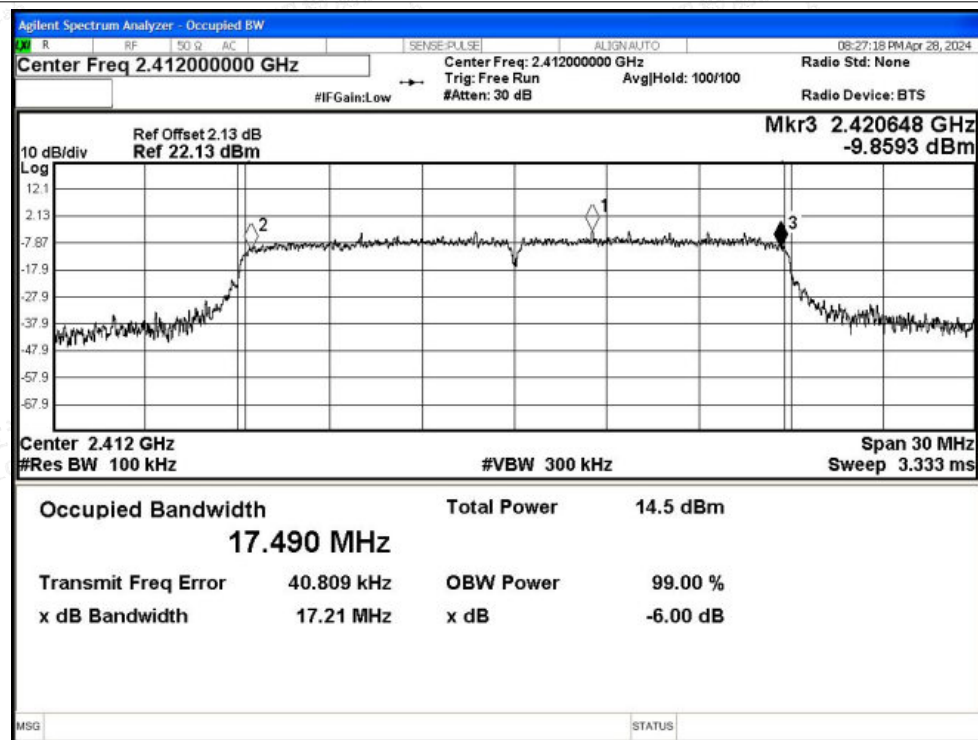
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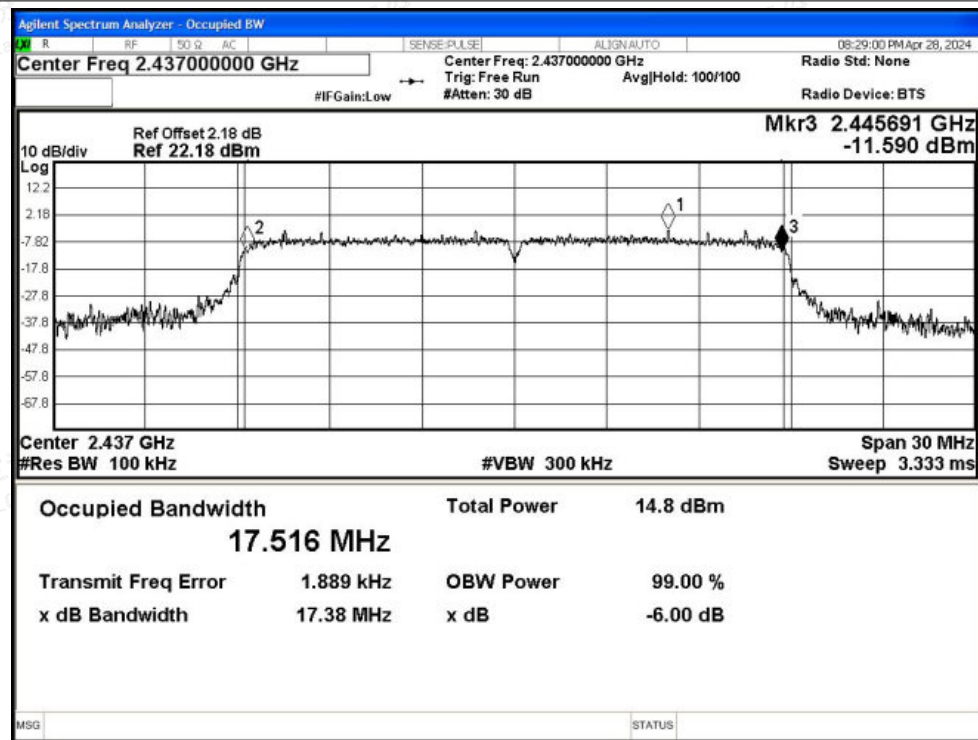




-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1



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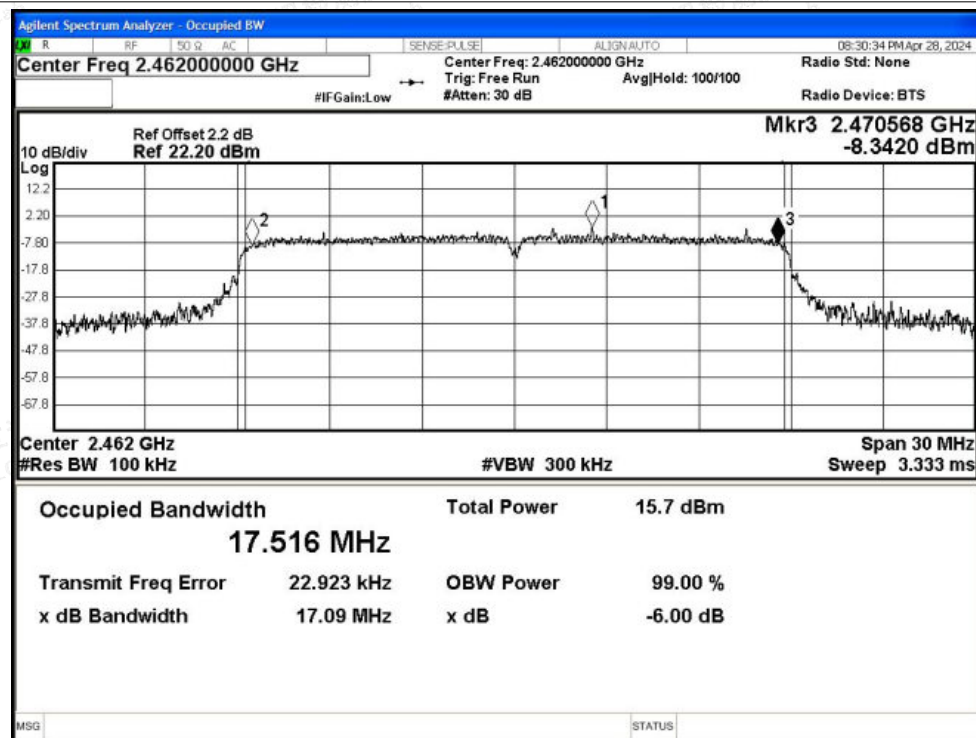
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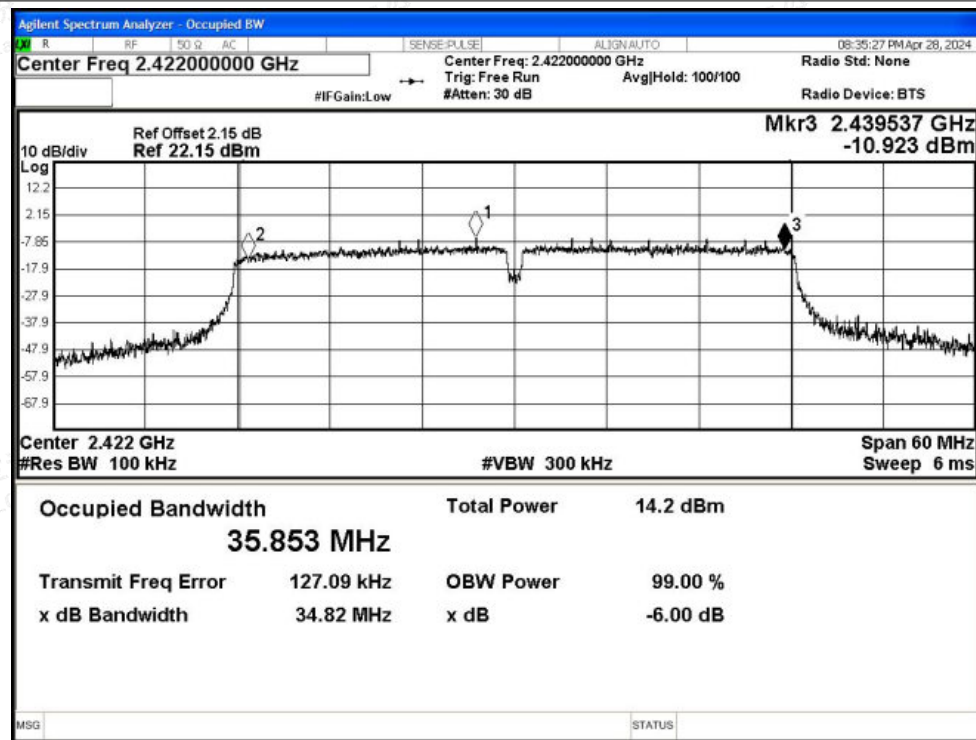
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-6dB Bandwidth NVNT n20 2462MHz Ant1



-6dB Bandwidth NVNT n40 2422MHz Ant1



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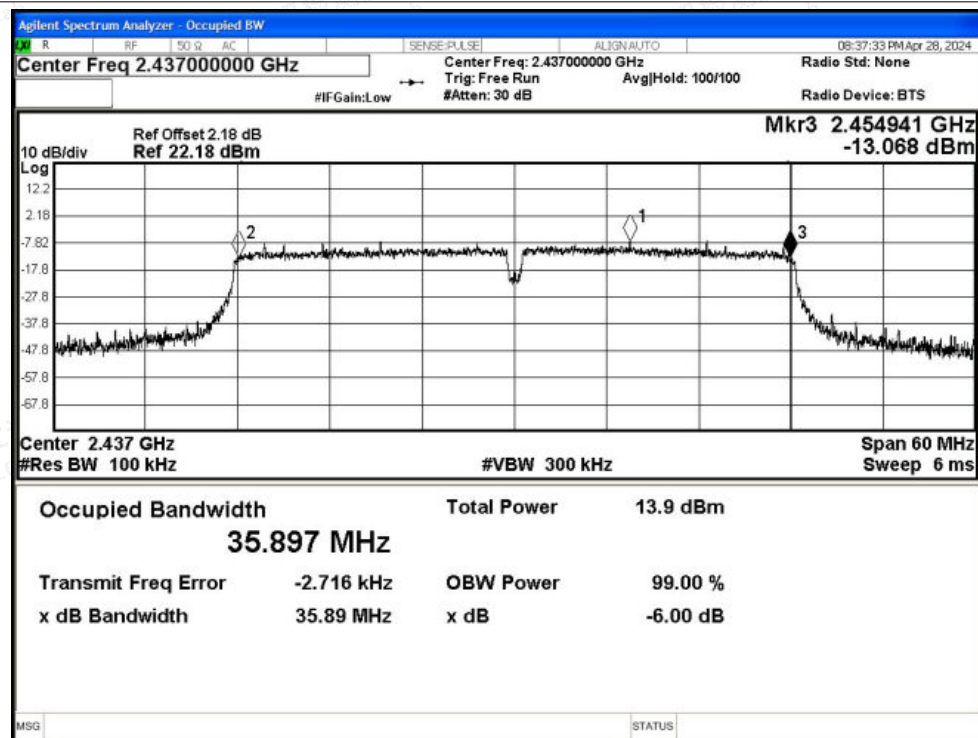
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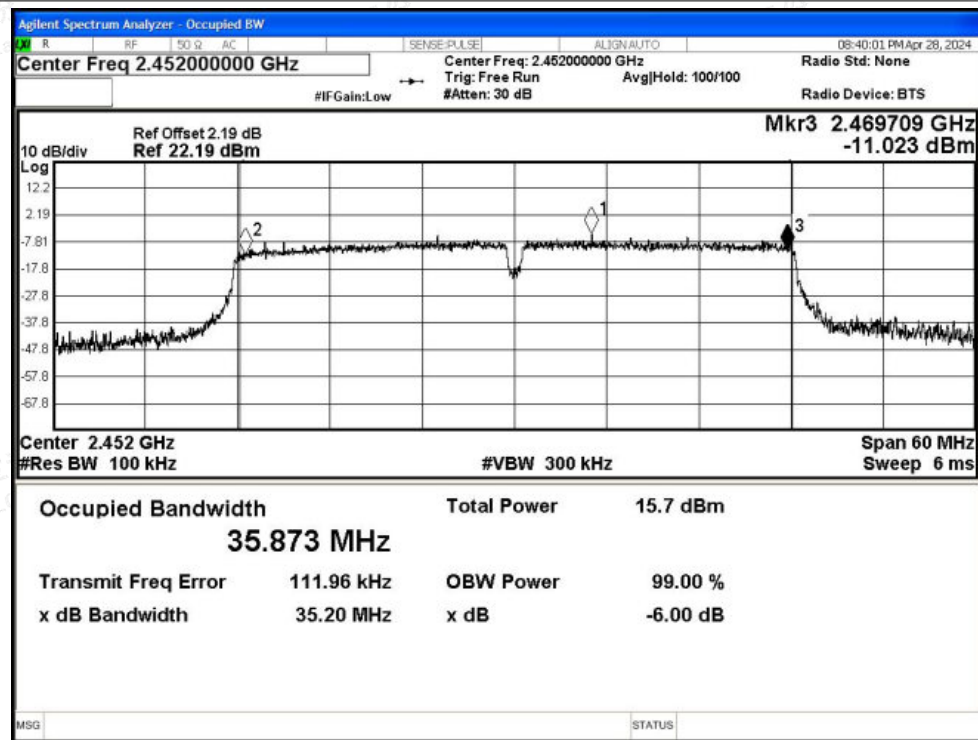
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-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1



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| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | b    | 2412            | Ant2    | 8.069                 | $\geq 0.5$                  | Pass    |
| NVNT      | b    | 2437            | Ant2    | 8.098                 | $\geq 0.5$                  | Pass    |
| NVNT      | b    | 2462            | Ant2    | 8.085                 | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2412            | Ant2    | 16.102                | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2437            | Ant2    | 16.32                 | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2462            | Ant2    | 16.264                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2412            | Ant2    | 17.103                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2437            | Ant2    | 17.328                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2462            | Ant2    | 16.807                | $\geq 0.5$                  | Pass    |
| NVNT      | n40  | 2422            | Ant2    | 34.223                | $\geq 0.5$                  | Pass    |
| NVNT      | n40  | 2437            | Ant2    | 35.89                 | $\geq 0.5$                  | Pass    |
| NVNT      | n40  | 2452            | Ant2    | 34.196                | $\geq 0.5$                  | Pass    |





## Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant2



-6dB Bandwidth NVNT b 2437MHz Ant2



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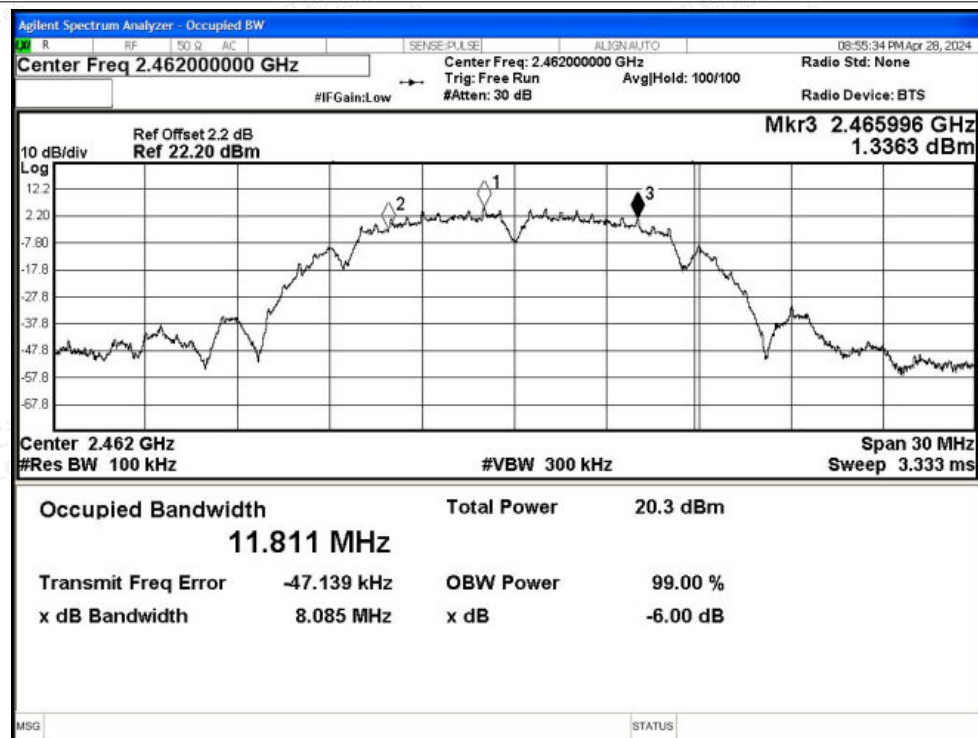
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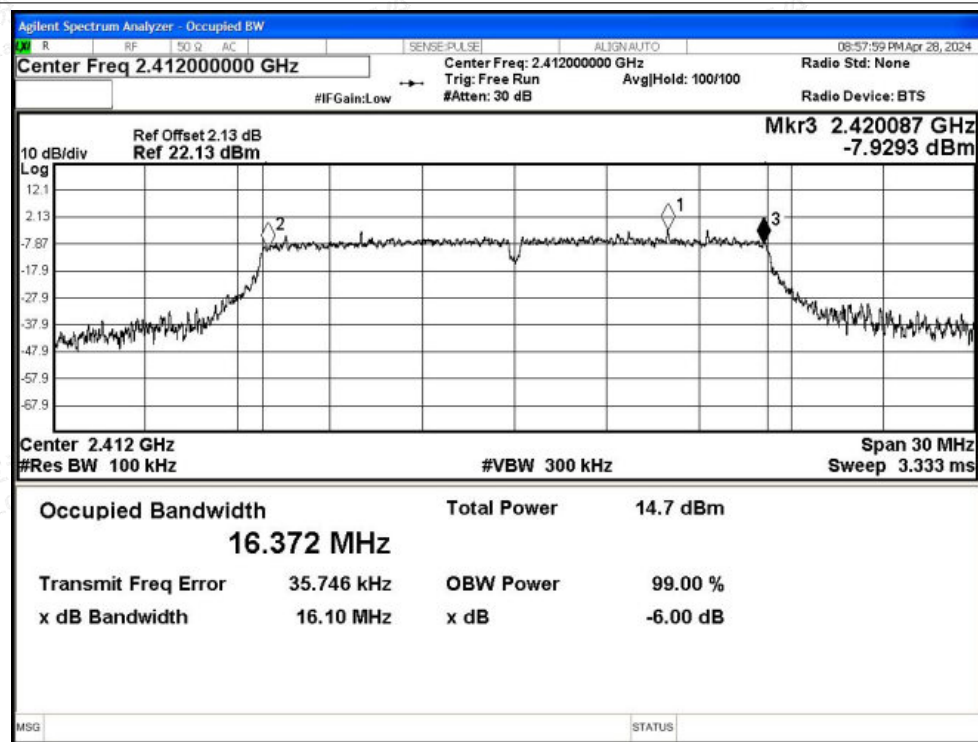
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-6dB Bandwidth NVNT b 2462MHz Ant2



-6dB Bandwidth NVNT g 2412MHz Ant2



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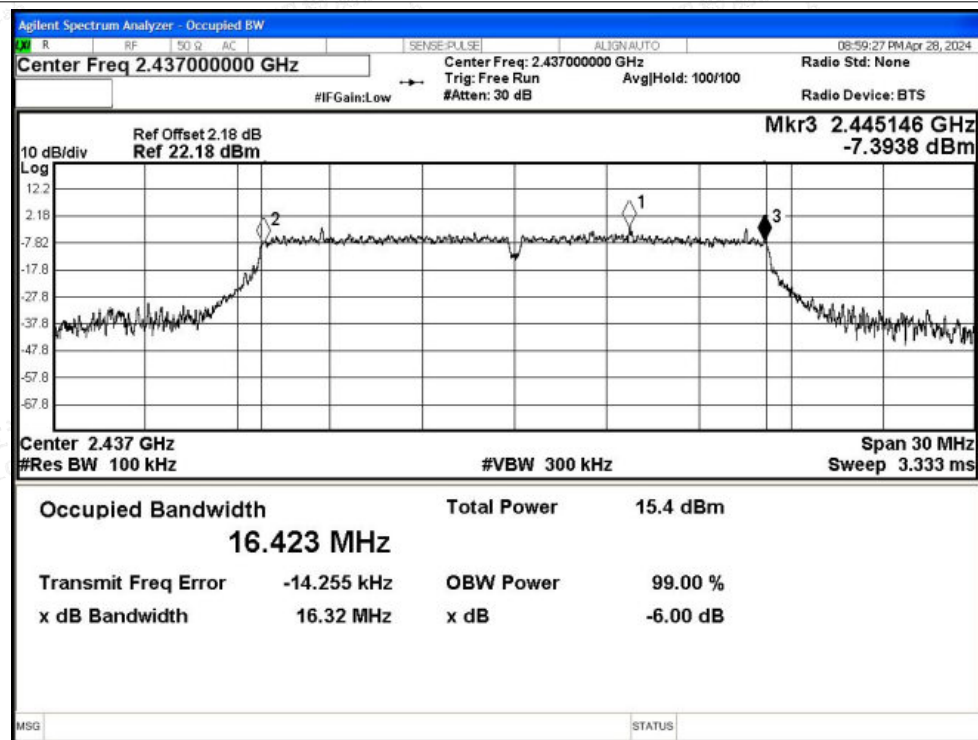
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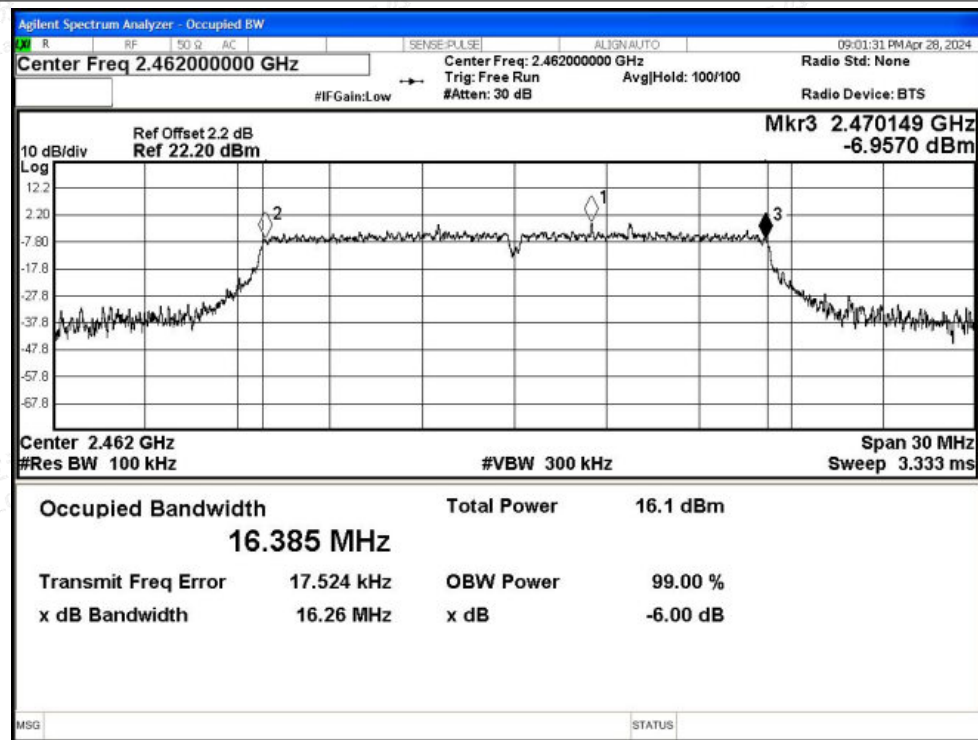
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## -6dB Bandwidth NVNT g 2437MHz Ant2



## -6dB Bandwidth NVNT g 2462MHz Ant2



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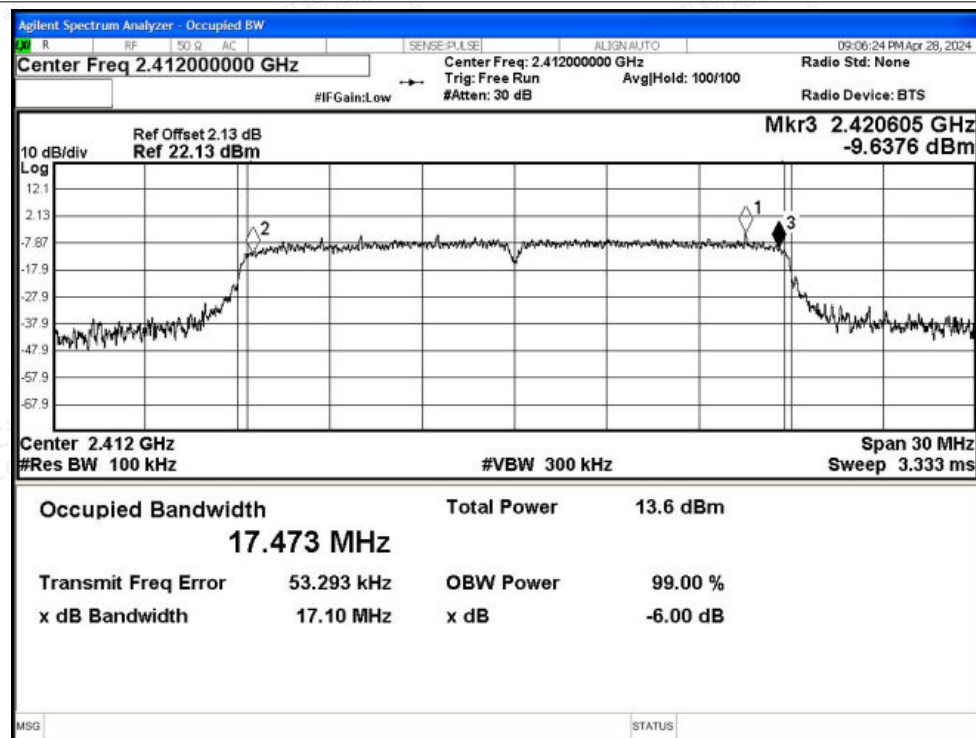
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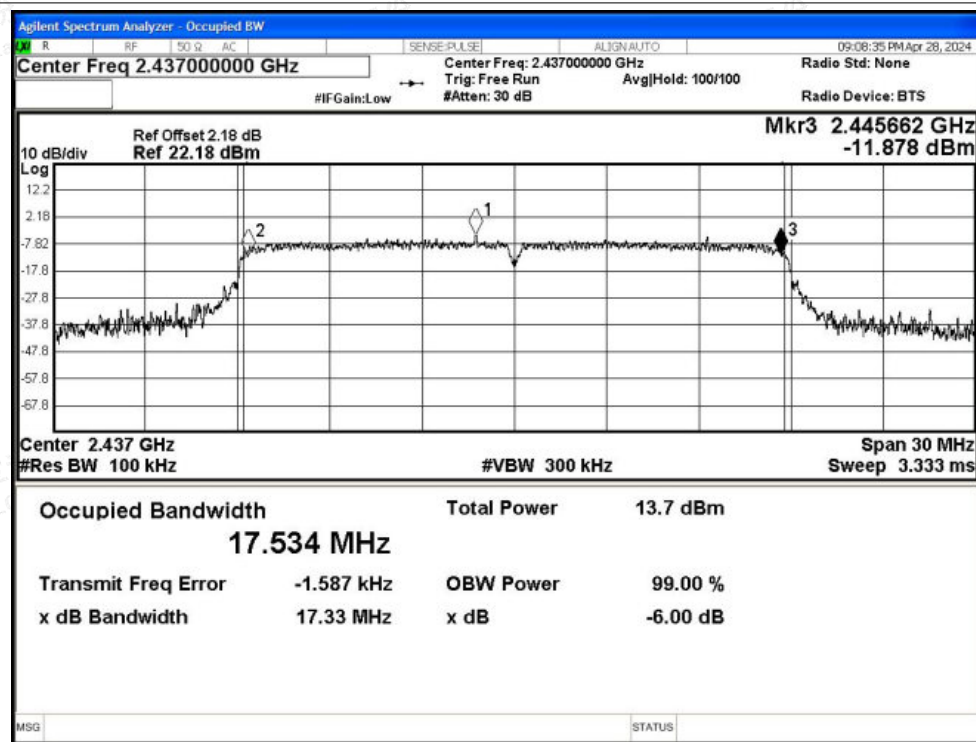
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-6dB Bandwidth NVNT n20 2412MHz Ant2



-6dB Bandwidth NVNT n20 2437MHz Ant2



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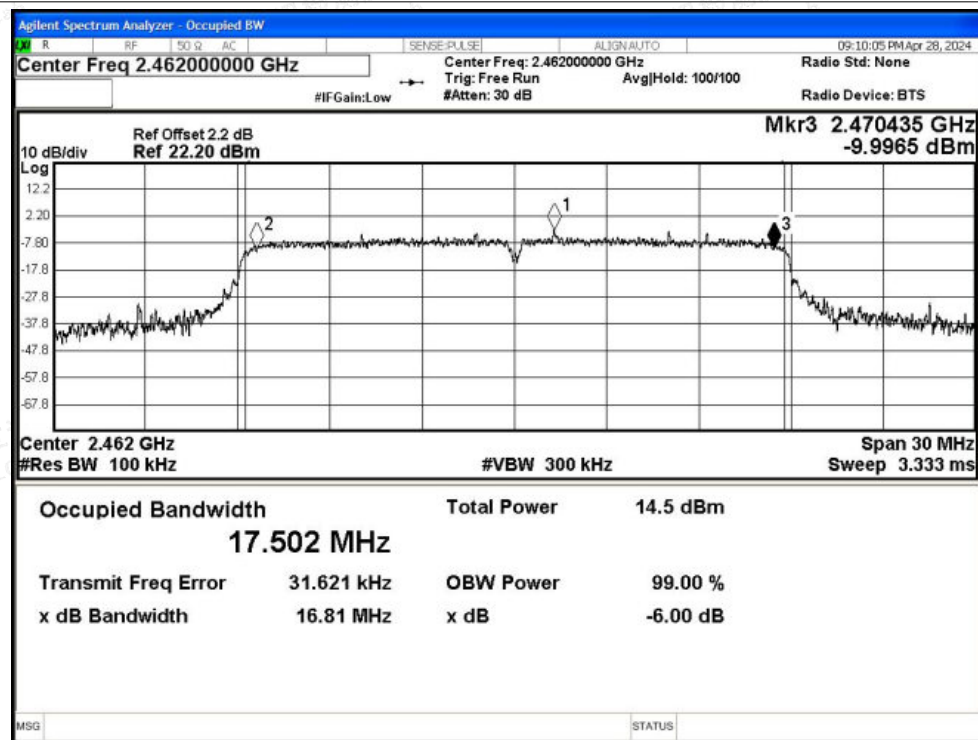
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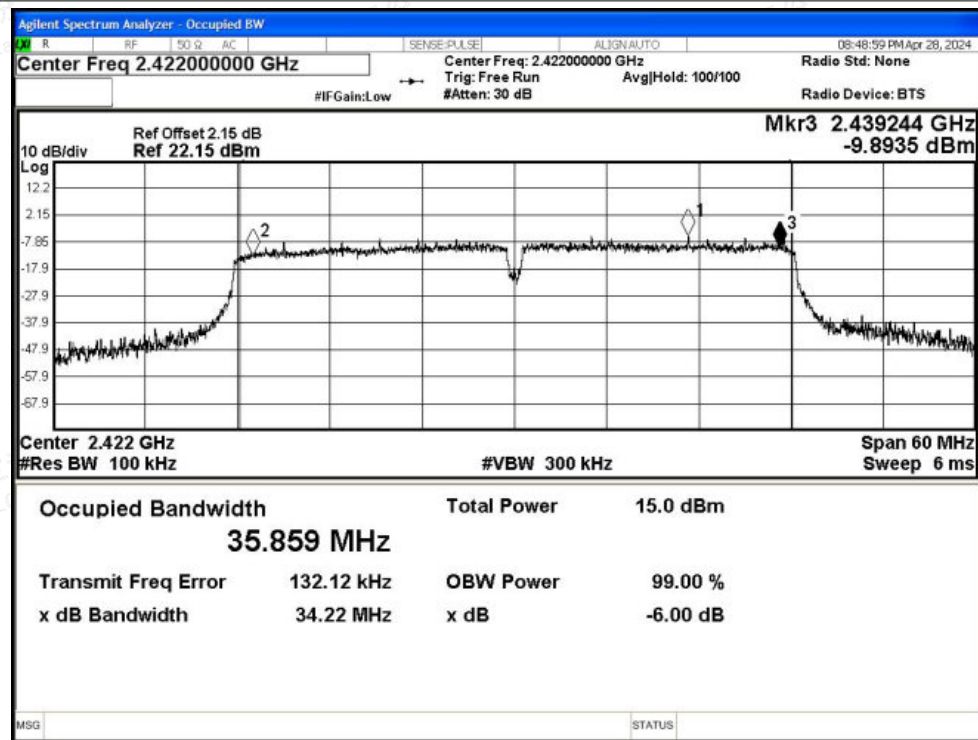




-6dB Bandwidth NVNT n20 2462MHz Ant2



-6dB Bandwidth NVNT n40 2422MHz Ant2



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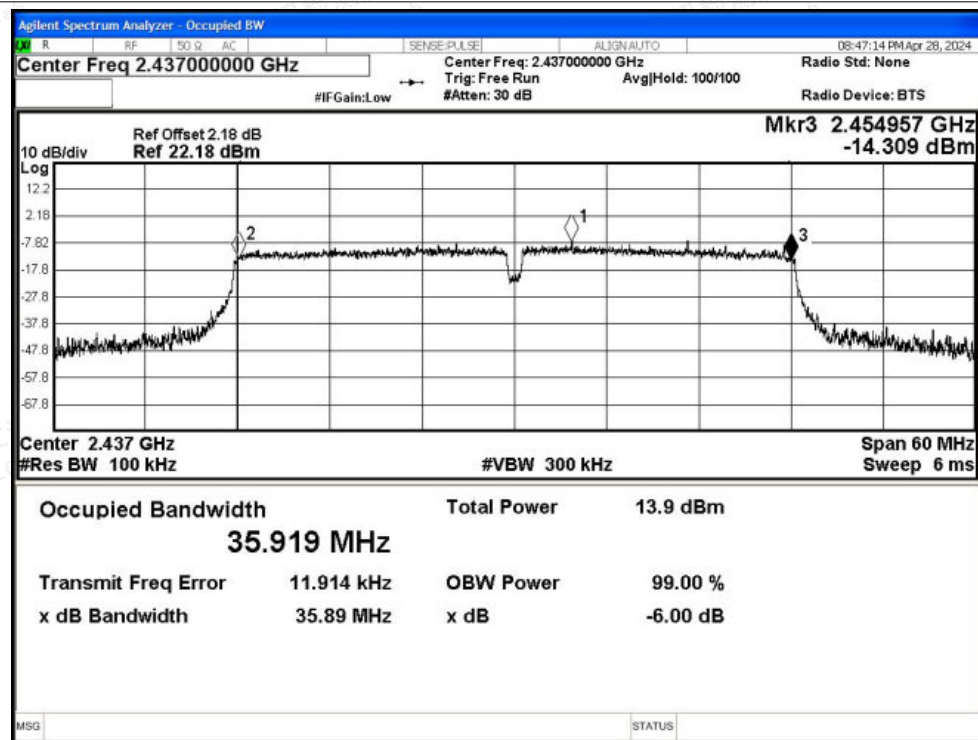
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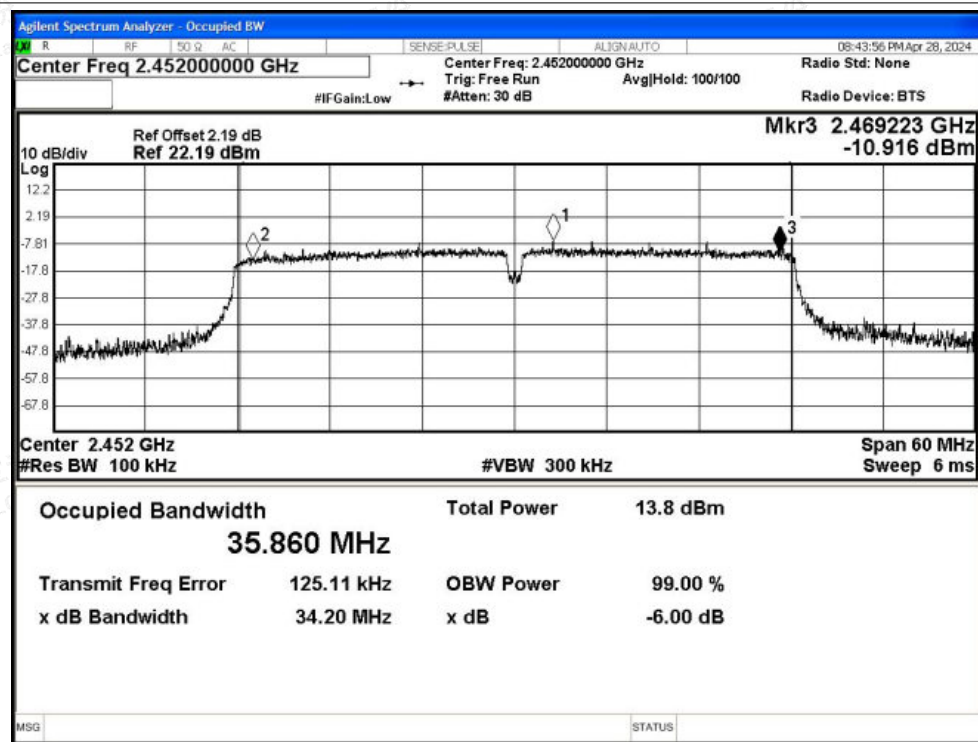
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-6dB Bandwidth NVNT n40 2437MHz Ant2



-6dB Bandwidth NVNT n40 2452MHz Ant2



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## A.2 Maximum Conducted Output Power

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | 15.3                  | 30          | Pass    |
| NVNT      | b    | 2437            | Ant1    | 15.74                 | 30          | Pass    |
| NVNT      | b    | 2462            | Ant1    | 15.26                 | 30          | Pass    |
| NVNT      | g    | 2412            | Ant1    | 14.74                 | 30          | Pass    |
| NVNT      | g    | 2437            | Ant1    | 14.08                 | 30          | Pass    |
| NVNT      | g    | 2462            | Ant1    | 14.83                 | 30          | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 13.09                 | 30          | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 13.38                 | 30          | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 13.31                 | 30          | Pass    |
| NVNT      | n40  | 2422            | Ant1    | 12.58                 | 30          | Pass    |
| NVNT      | n40  | 2437            | Ant1    | 12.49                 | 30          | Pass    |
| NVNT      | n40  | 2452            | Ant1    | 12.36                 | 30          | Pass    |

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-------------|---------|
| NVNT      | b    | 2412            | Ant2    | 14.31                 | 30          | Pass    |
| NVNT      | b    | 2437            | Ant2    | 14.74                 | 30          | Pass    |
| NVNT      | b    | 2462            | Ant2    | 14.31                 | 30          | Pass    |
| NVNT      | g    | 2412            | Ant2    | 13.51                 | 30          | Pass    |
| NVNT      | g    | 2437            | Ant2    | 12.78                 | 30          | Pass    |
| NVNT      | g    | 2462            | Ant2    | 13.83                 | 30          | Pass    |
| NVNT      | n20  | 2412            | Ant2    | 12.23                 | 30          | Pass    |
| NVNT      | n20  | 2437            | Ant2    | 12.28                 | 30          | Pass    |
| NVNT      | n20  | 2462            | Ant2    | 13.17                 | 30          | Pass    |
| NVNT      | n40  | 2422            | Ant2    | 11.68                 | 30          | Pass    |
| NVNT      | n40  | 2437            | Ant2    | 11.48                 | 30          | Pass    |
| NVNT      | n40  | 2452            | Ant2    | 11.32                 | 30          | Pass    |

### MIMO

| Condition | Mode | Frequency (MHz) | Total Power (dBm) |       |           | Limit (dBm) | Verdict |
|-----------|------|-----------------|-------------------|-------|-----------|-------------|---------|
|           |      |                 | Ant1              | Ant2  | Ant1+Ant2 |             |         |
| NVNT      | n20  | 2412            | 12.23             | 13.09 | 15.69     | 30          | Pass    |
| NVNT      | n20  | 2437            | 12.28             | 13.38 | 15.88     | 30          | Pass    |
| NVNT      | n20  | 2462            | 13.17             | 13.31 | 16.25     | 30          | Pass    |
| NVNT      | n40  | 2422            | 11.68             | 12.58 | 15.16     | 30          | Pass    |
| NVNT      | n40  | 2437            | 11.48             | 12.49 | 15.02     | 30          | Pass    |
| NVNT      | n40  | 2452            | 11.32             | 12.36 | 14.88     | 30          | Pass    |



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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      | b    | 2412            | Ant1    | -9.45                    | 8                | Pass    |
| NVNT      | b    | 2437            | Ant1    | -8.62                    | 8                | Pass    |
| NVNT      | b    | 2462            | Ant1    | -8.73                    | 8                | Pass    |
| NVNT      | g    | 2412            | Ant1    | -15.84                   | 8                | Pass    |
| NVNT      | g    | 2437            | Ant1    | -15.55                   | 8                | Pass    |
| NVNT      | g    | 2462            | Ant1    | -15.59                   | 8                | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -17.1                    | 8                | Pass    |
| NVNT      | n20  | 2437            | Ant1    | -17.37                   | 8                | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -15.91                   | 8                | Pass    |
| NVNT      | n40  | 2422            | Ant1    | -20.73                   | 8                | Pass    |
| NVNT      | n40  | 2437            | Ant1    | -21.51                   | 8                | Pass    |
| NVNT      | n40  | 2452            | Ant1    | -19.71                   | 8                | Pass    |

| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|-----------|------|-----------------|---------|--------------------------|------------------|---------|
| NVNT      | b    | 2412            | Ant2    | -10.94                   | 8                | Pass    |
| NVNT      | b    | 2437            | Ant2    | -9.86                    | 8                | Pass    |
| NVNT      | b    | 2462            | Ant2    | -9.75                    | 8                | Pass    |
| NVNT      | g    | 2412            | Ant2    | -17.14                   | 8                | Pass    |
| NVNT      | g    | 2437            | Ant2    | -16.58                   | 8                | Pass    |
| NVNT      | g    | 2462            | Ant2    | -14.62                   | 8                | Pass    |
| NVNT      | n20  | 2412            | Ant2    | -19                      | 8                | Pass    |
| NVNT      | n20  | 2437            | Ant2    | -17.72                   | 8                | Pass    |
| NVNT      | n20  | 2462            | Ant2    | -16.31                   | 8                | Pass    |
| NVNT      | n40  | 2422            | Ant2    | -19.89                   | 8                | Pass    |
| NVNT      | n40  | 2437            | Ant2    | -19.96                   | 8                | Pass    |
| NVNT      | n40  | 2452            | Ant2    | -21.09                   | 8                | Pass    |

#### MIMO

| Condition | Mode | Frequency (MHz) | Total PSD (dBm/3kHz) |        |           | Limit (dBm) | Verdict |
|-----------|------|-----------------|----------------------|--------|-----------|-------------|---------|
|           |      |                 | Ant1                 | Ant2   | Ant1+Ant2 |             |         |
| NVNT      | n20  | 2412            | -17.1                | -19    | -14.94    | 8           | Pass    |
| NVNT      | n20  | 2437            | -17.37               | -17.72 | -14.53    | 8           | Pass    |
| NVNT      | n20  | 2462            | -15.91               | -16.31 | -13.10    | 8           | Pass    |
| NVNT      | n40  | 2412            | -20.73               | -19.89 | -17.28    | 8           | Pass    |
| NVNT      | n40  | 2437            | -21.51               | -19.96 | -17.66    | 8           | Pass    |
| NVNT      | n40  | 2462            | -19.71               | -21.09 | -17.34    | 8           | Pass    |



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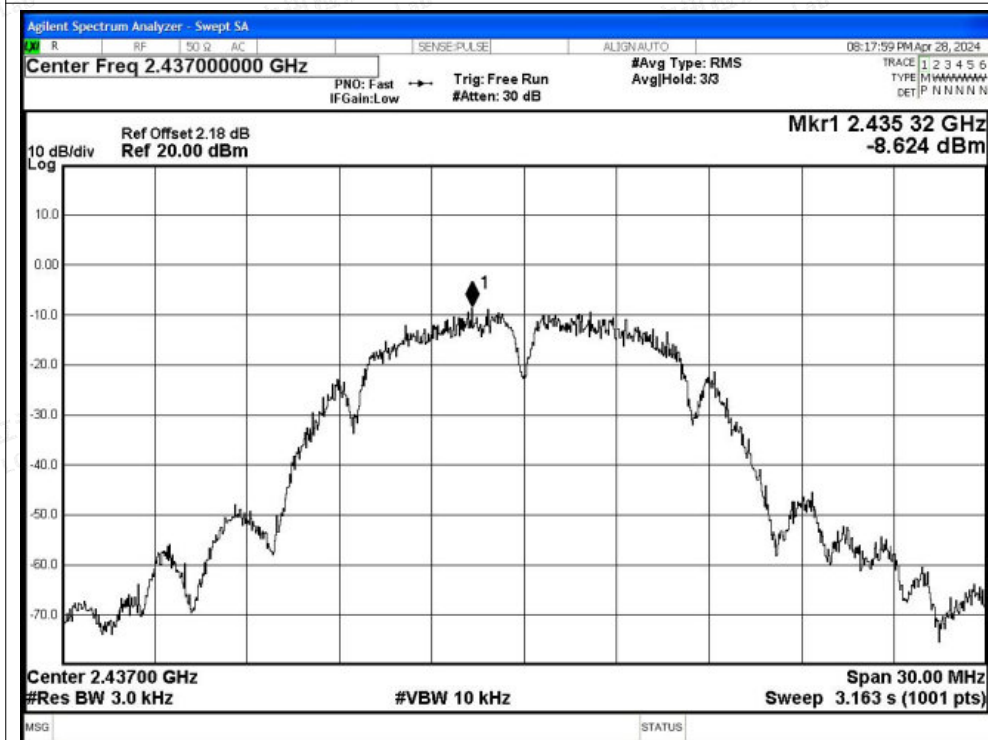


## Test Graphs

PSD NVNT b 2412MHz Ant1



PSD NVNT b 2437MHz Ant1



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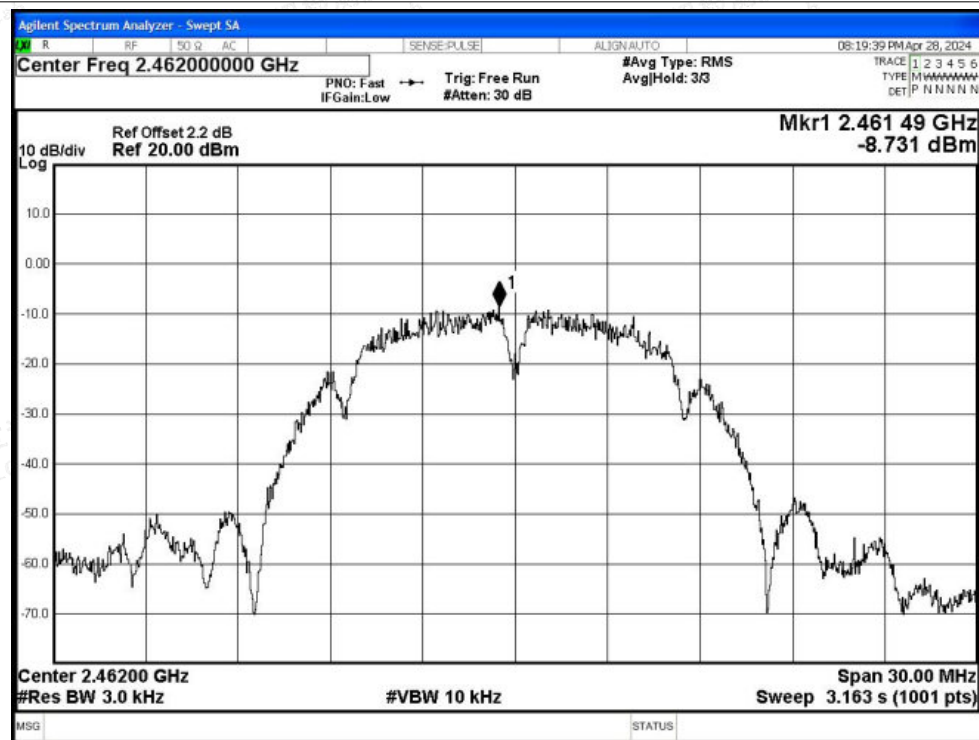
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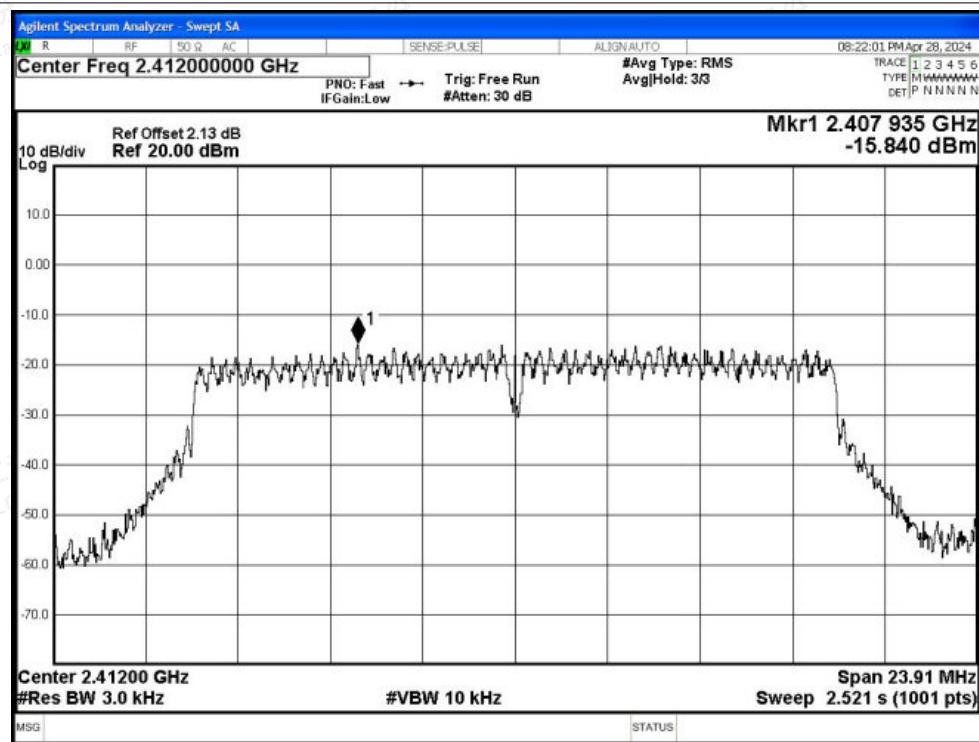




PSD NVNT b 2462MHz Ant1



PSD NVNT g 2412MHz Ant1



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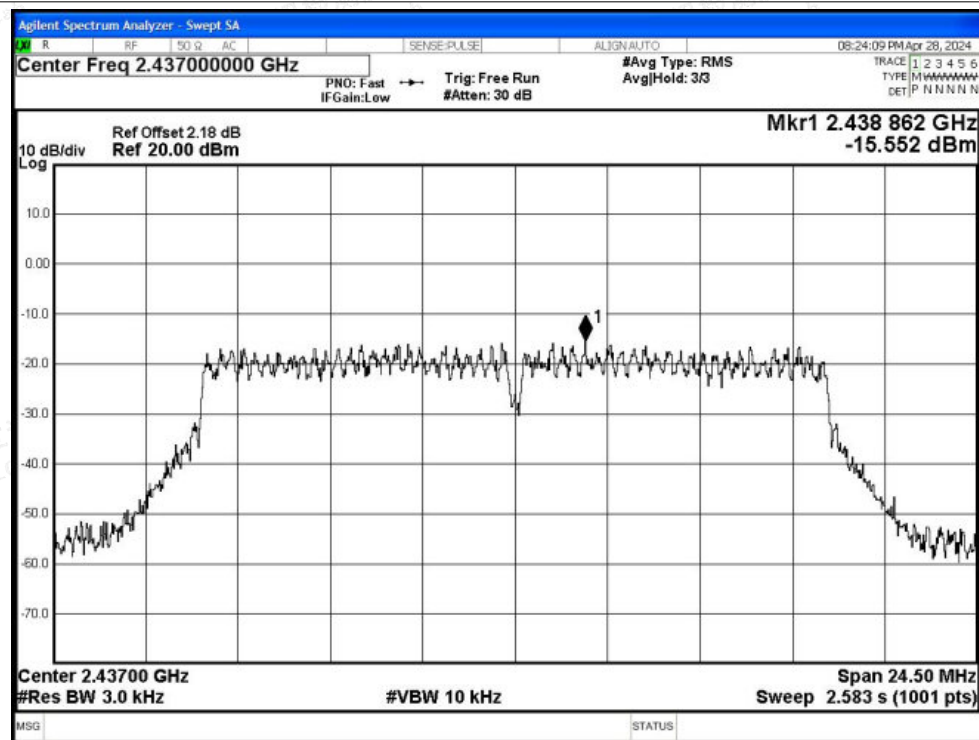
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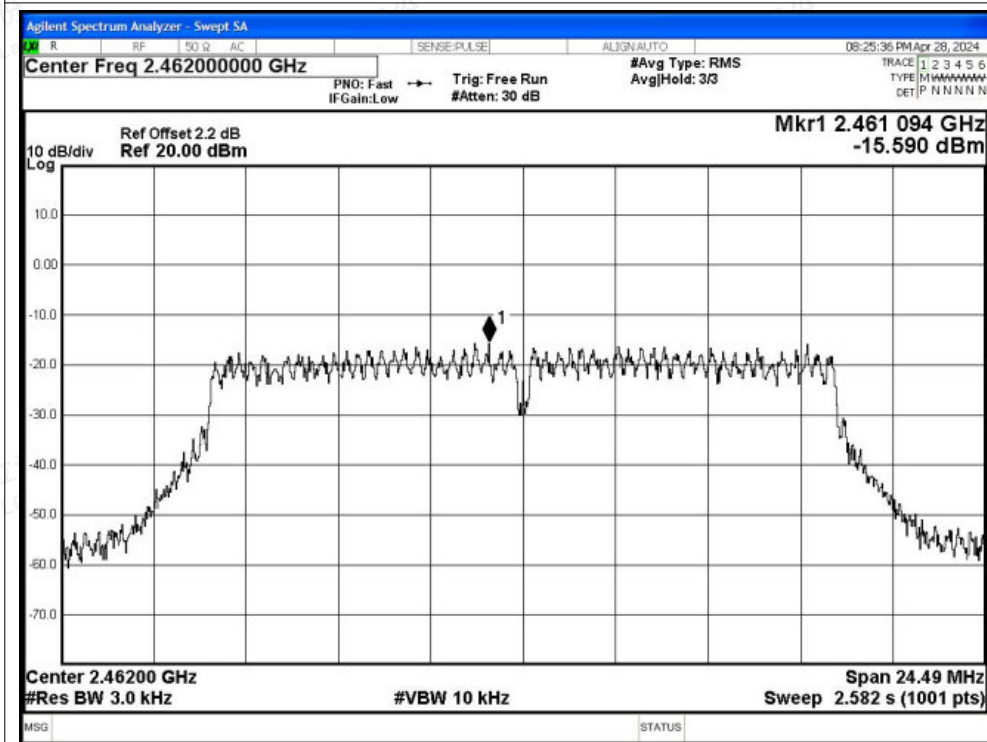
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PSD NVNT g 2437MHz Ant1



PSD NVNT g 2462MHz Ant1

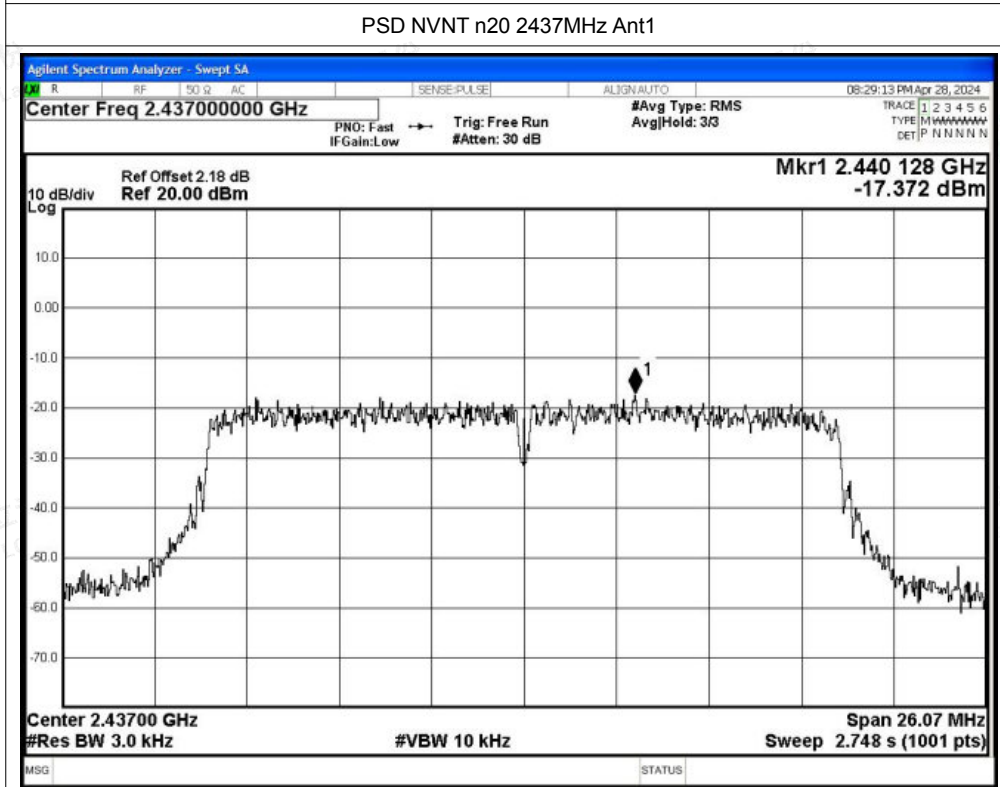
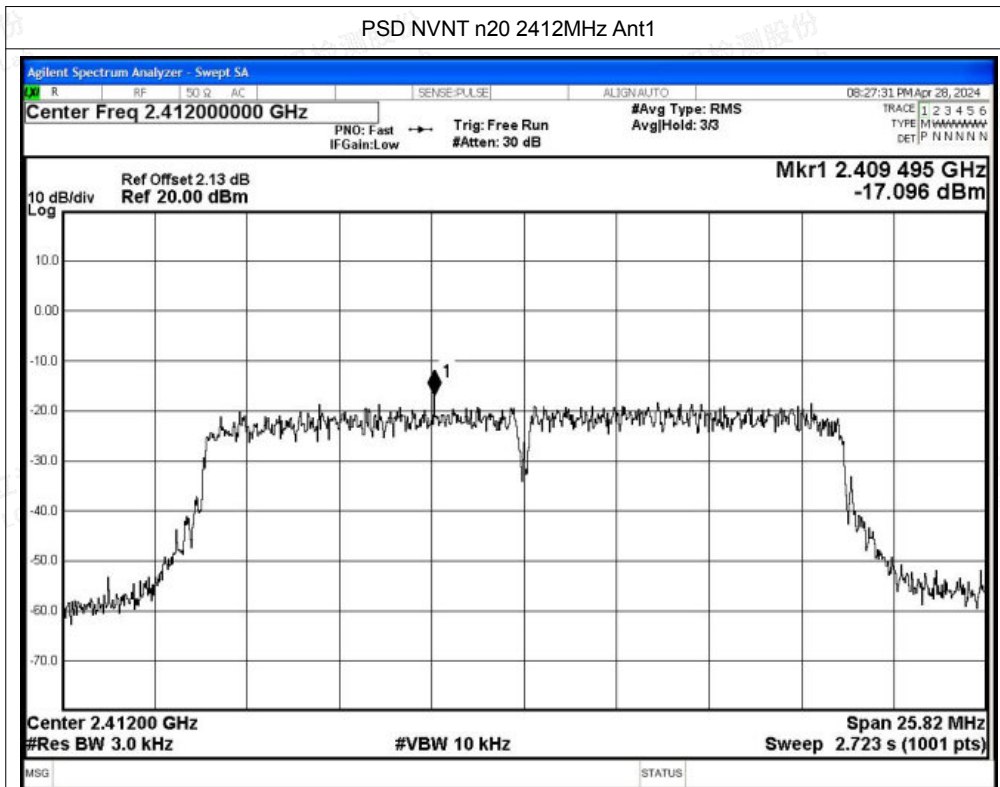


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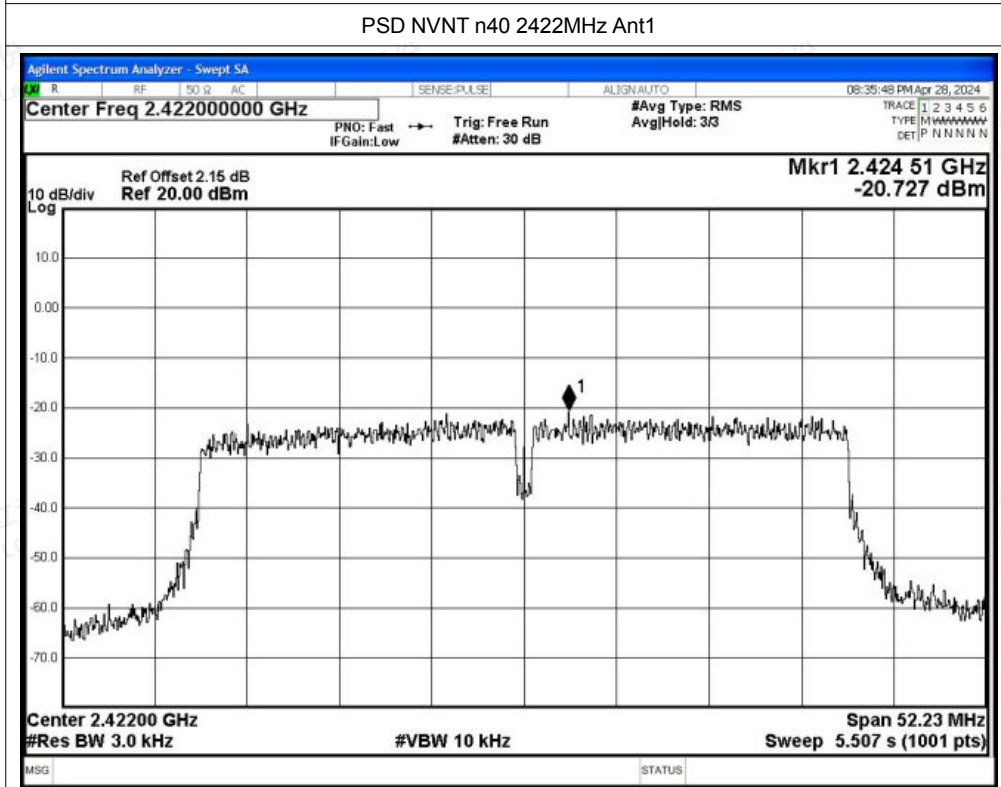
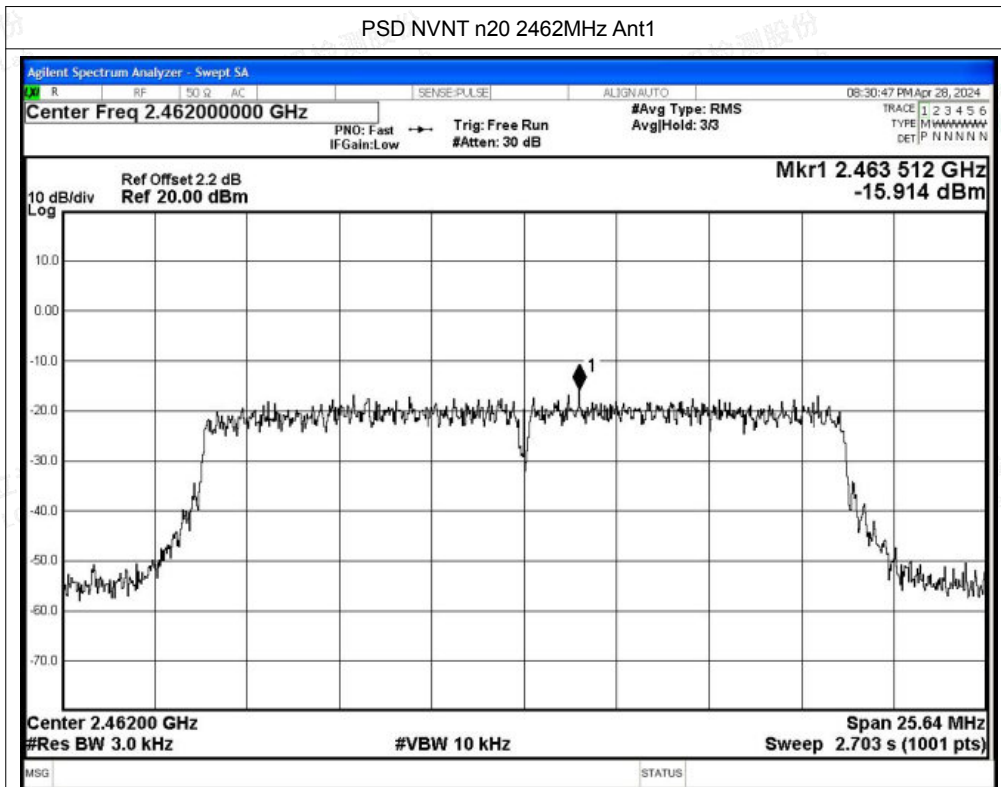


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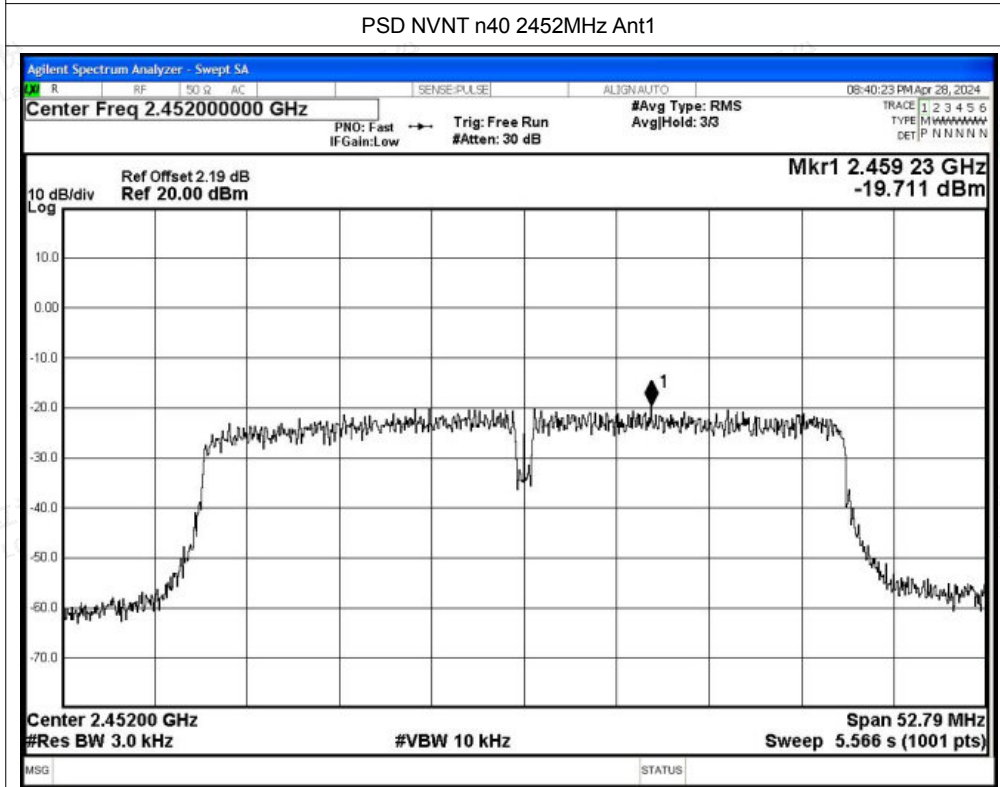
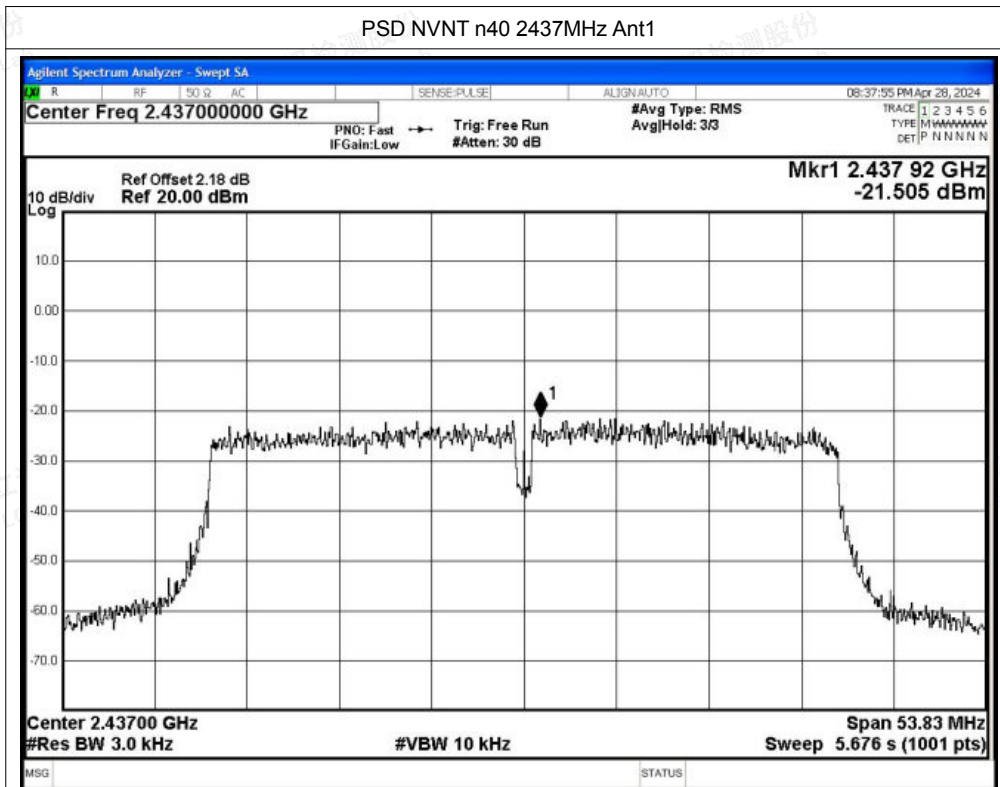


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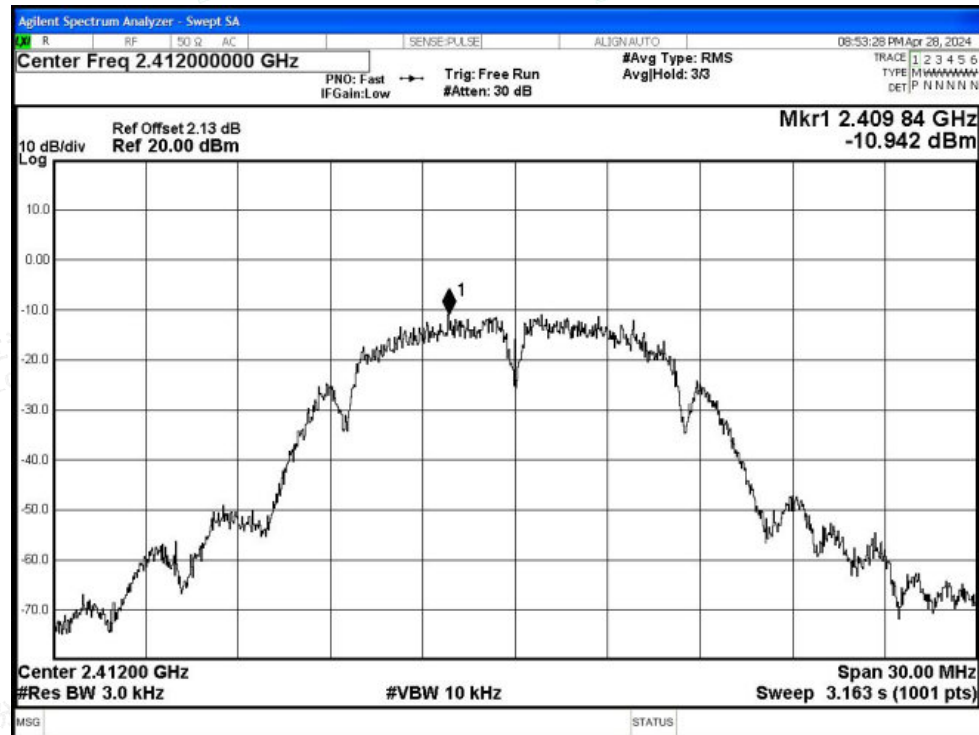
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## Test Graphs

PSD NVNT b 2412MHz Ant2



PSD NVNT b 2437MHz Ant2



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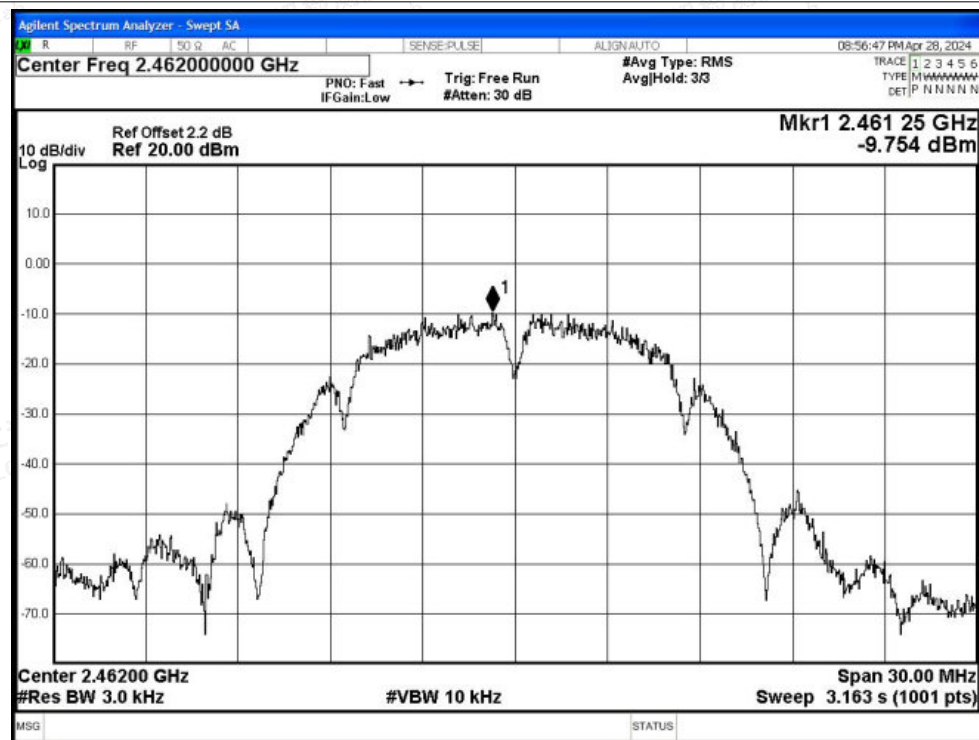
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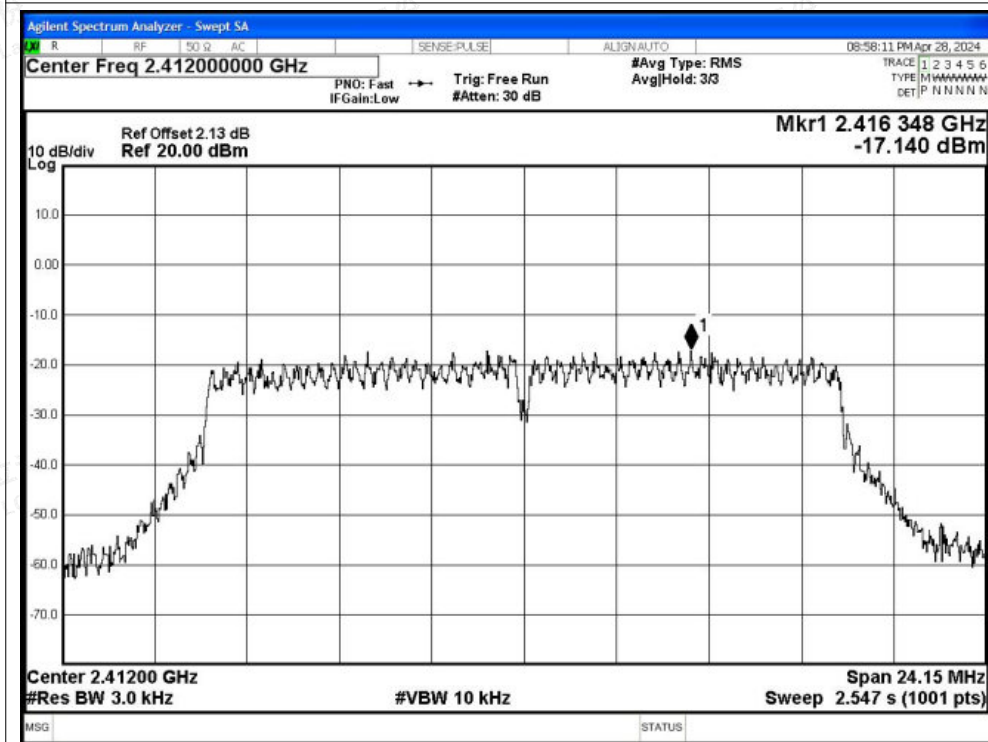
Scan code to check authenticity



PSD NVNT b 2462MHz Ant2



PSD NVNT g 2412MHz Ant2



Shenzhen LCS Compliance Testing Laboratory Ltd.

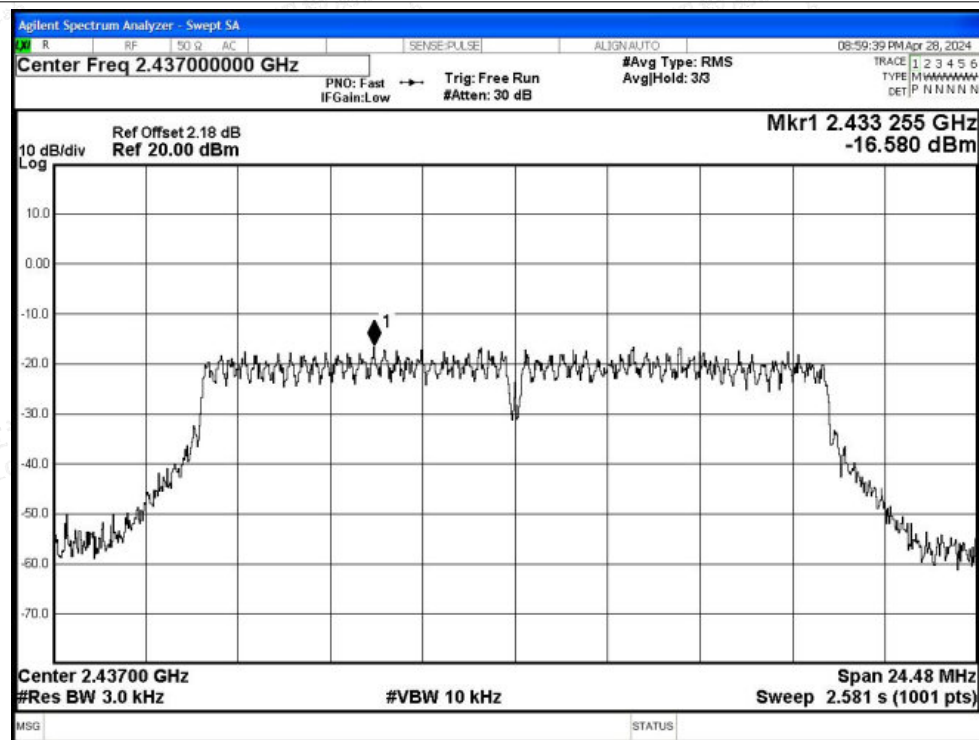
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

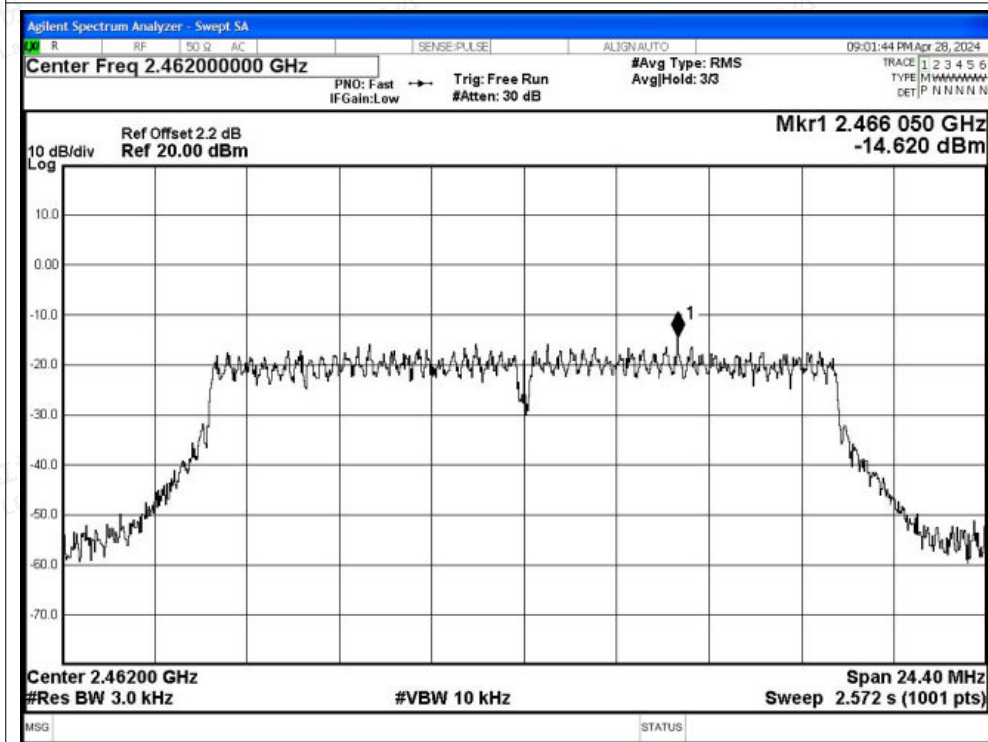
Scan code to check authenticity



PSD NVNT g 2437MHz Ant2



PSD NVNT g 2462MHz Ant2

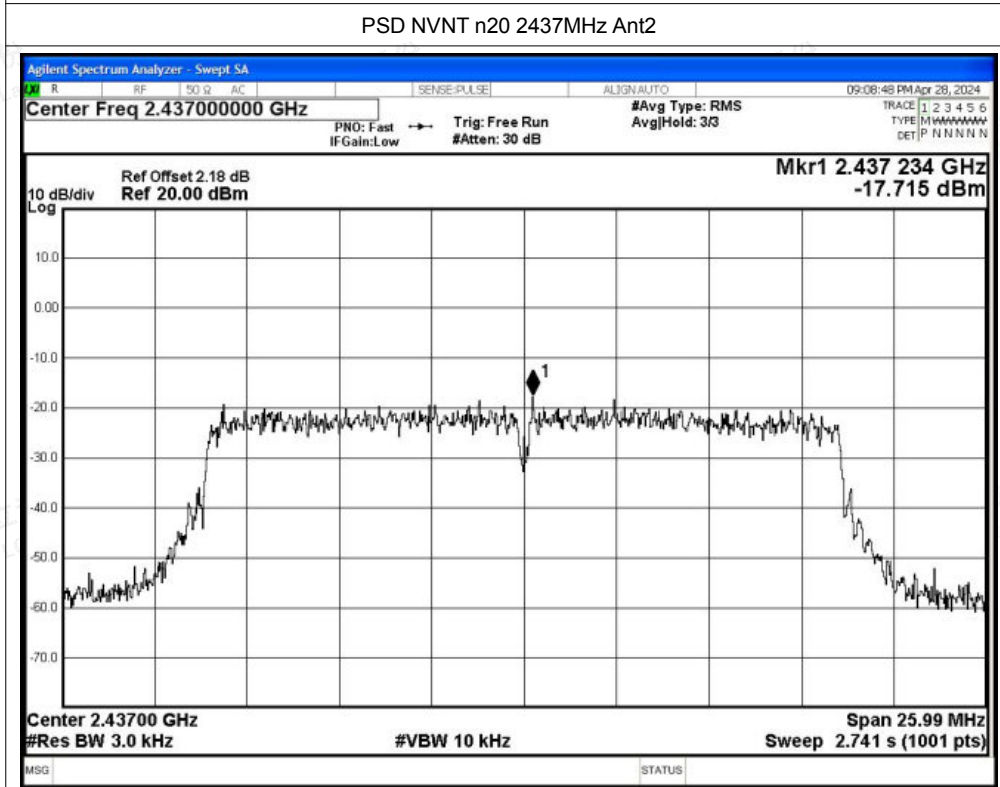
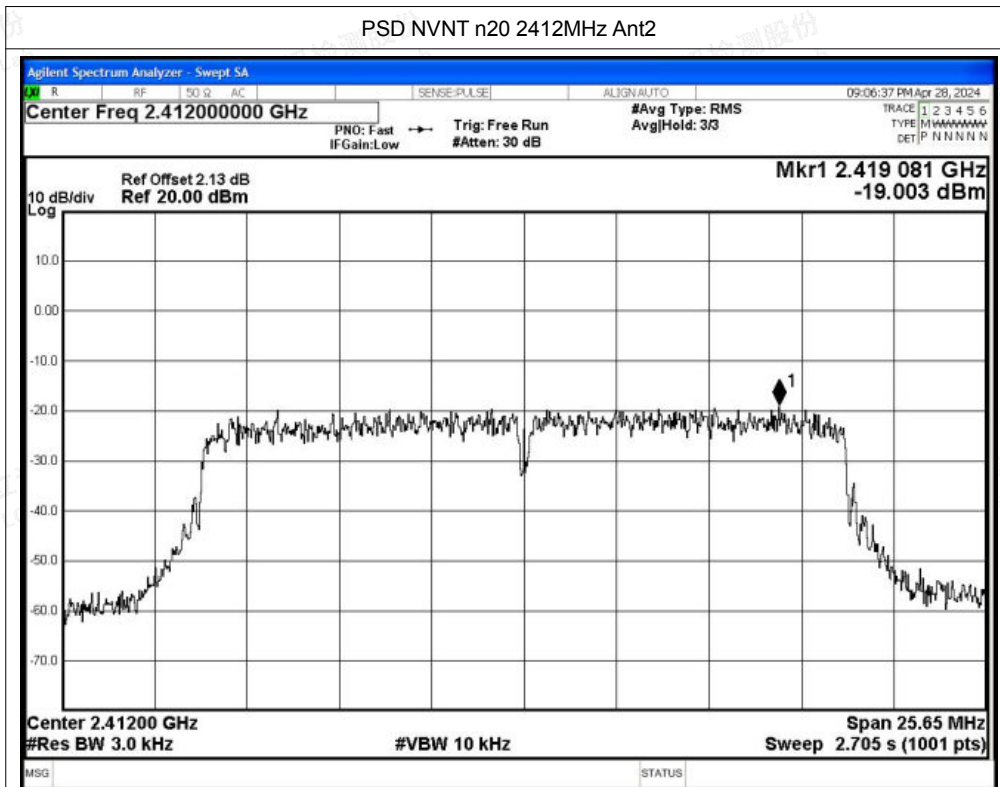


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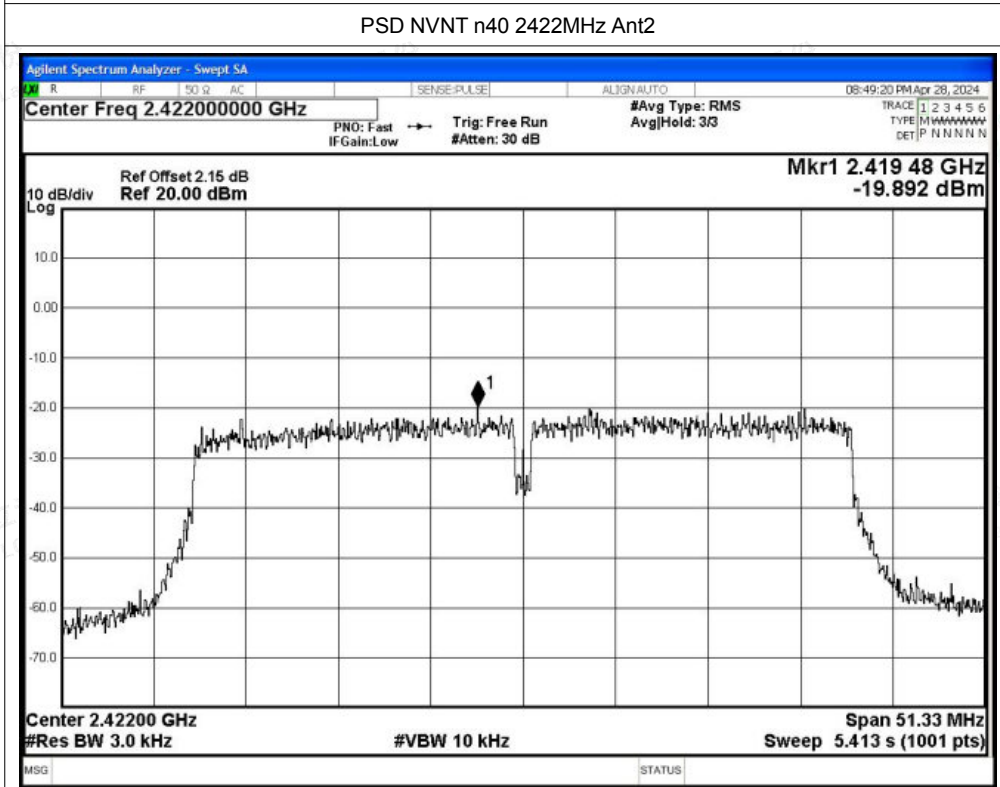
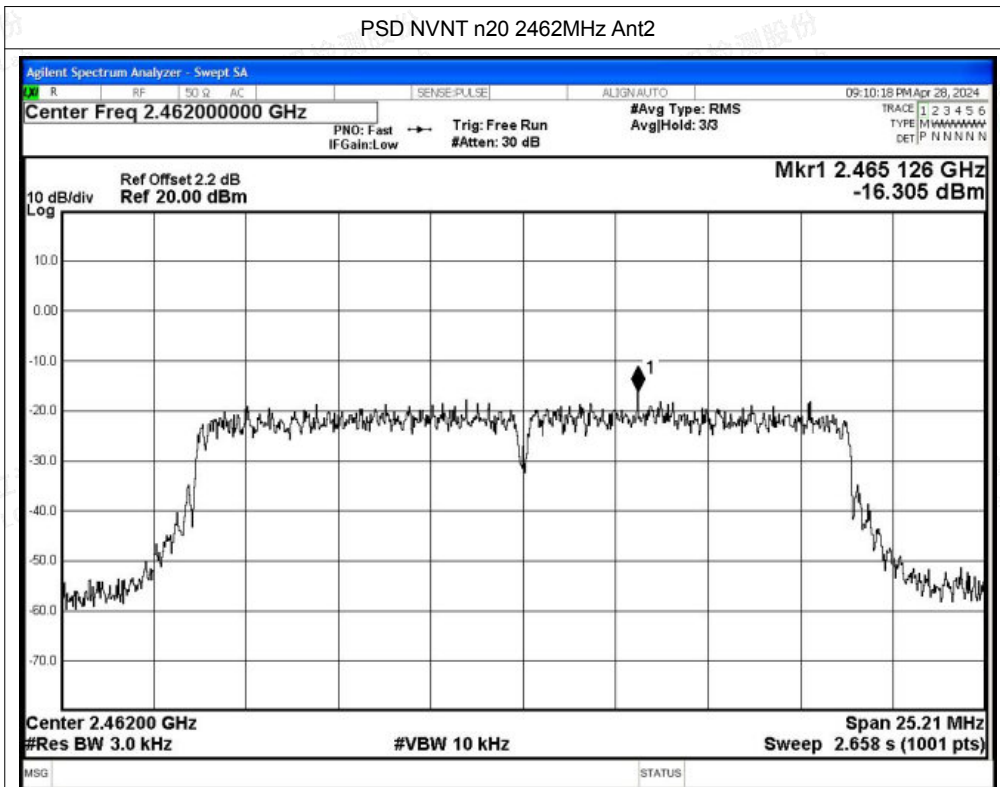


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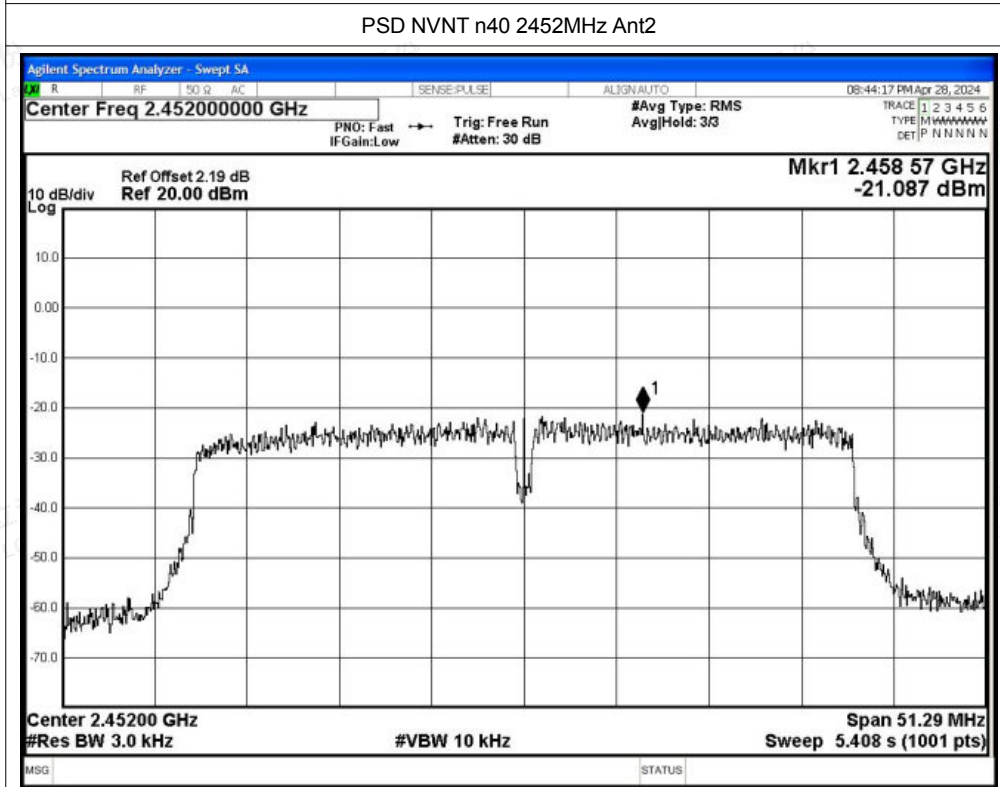
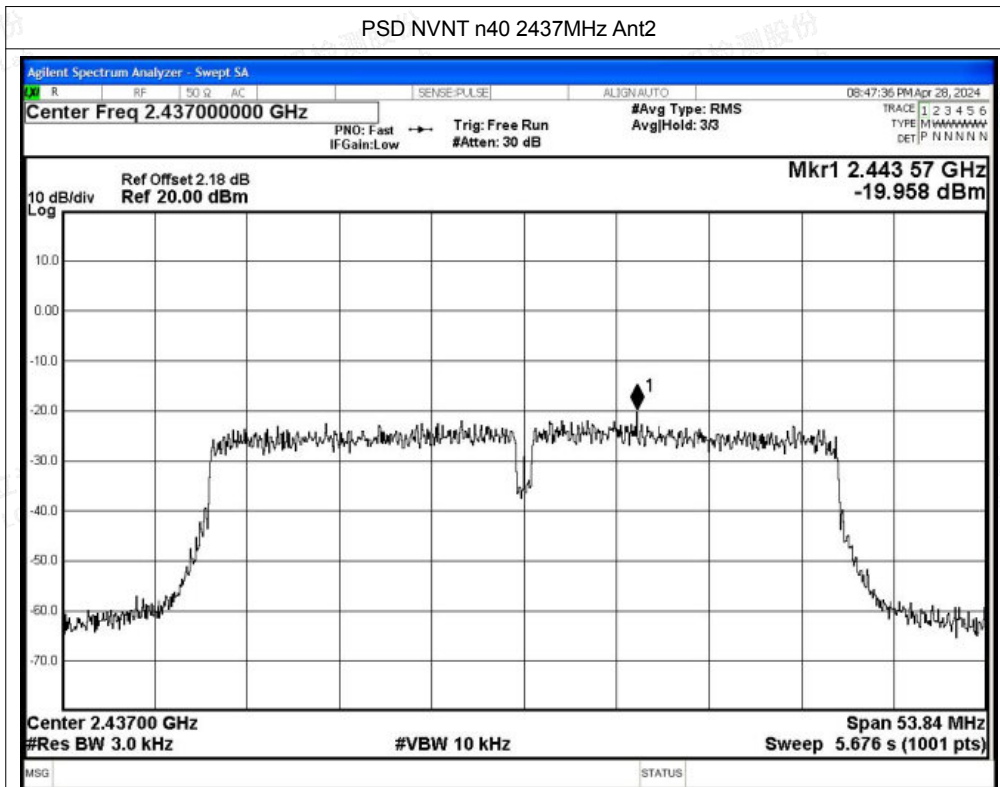
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## A.4 Band Edge

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | -46.63          | -20         | Pass    |
| NVNT      | b    | 2462            | Ant1    | -62.01          | -20         | Pass    |
| NVNT      | g    | 2412            | Ant1    | -33.46          | -20         | Pass    |
| NVNT      | g    | 2462            | Ant1    | -41.26          | -20         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -30.87          | -20         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -41.52          | -20         | Pass    |
| NVNT      | n40  | 2422            | Ant1    | -34.98          | -20         | Pass    |
| NVNT      | n40  | 2452            | Ant1    | -35.71          | -20         | Pass    |



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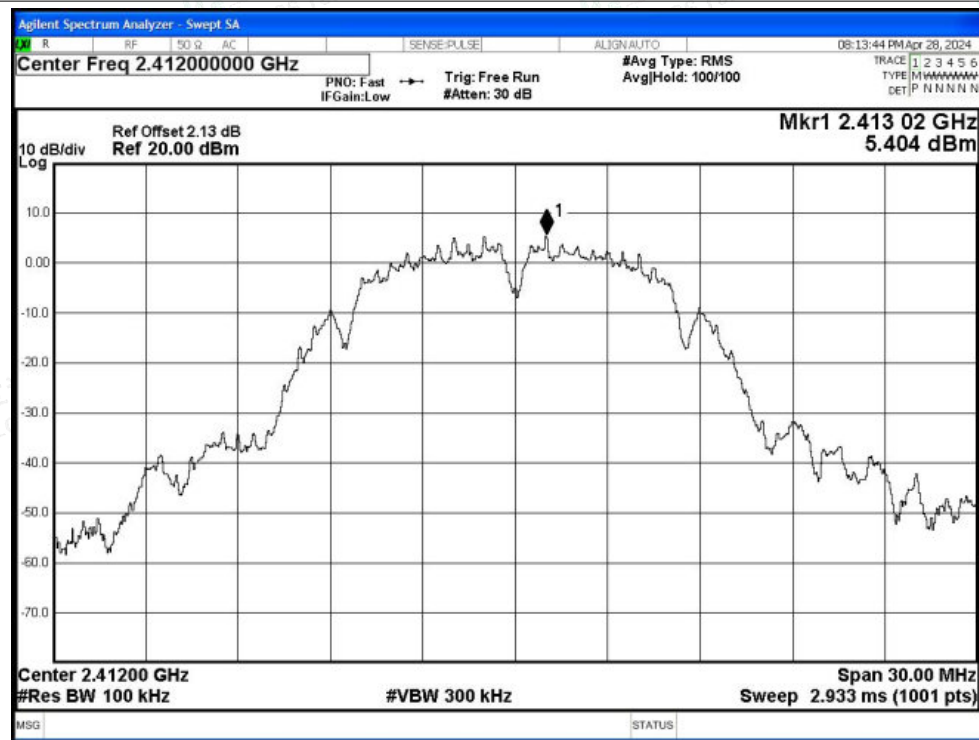
Tel: +(86) 0755-82591330 | E-mail: [webmaster@lcs-cert.com](mailto:webmaster@lcs-cert.com) | Web: [www.lcs-cert.com](http://www.lcs-cert.com)

Scan code to check authenticity

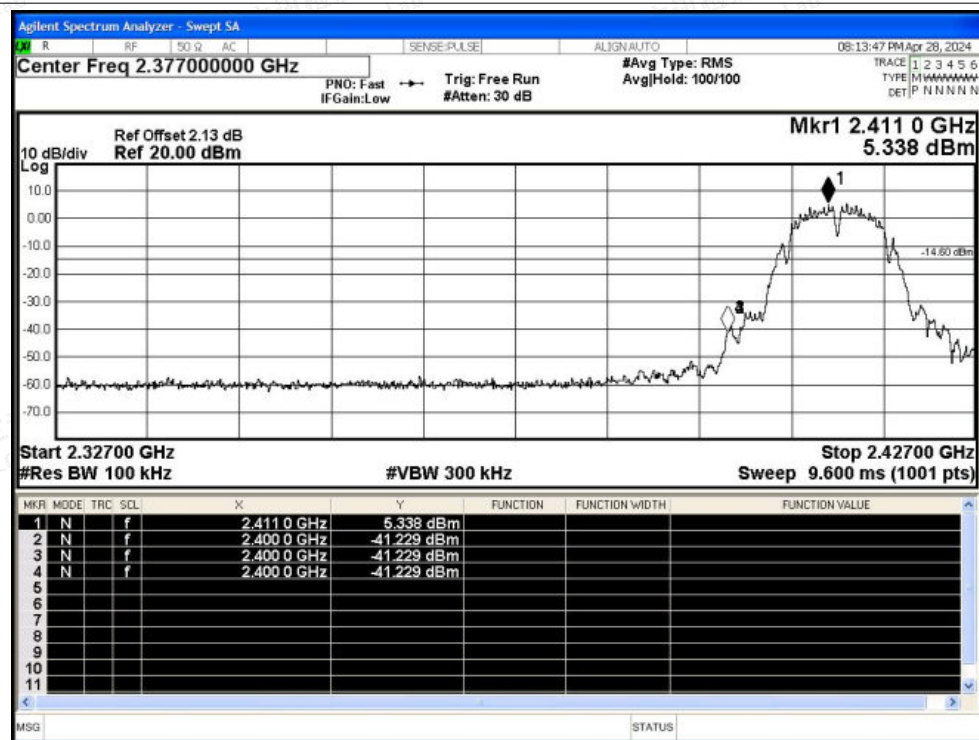


## Test Graphs

## Band Edge NVNT b 2412MHz Ant1 Ref



## Band Edge NVNT b 2412MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

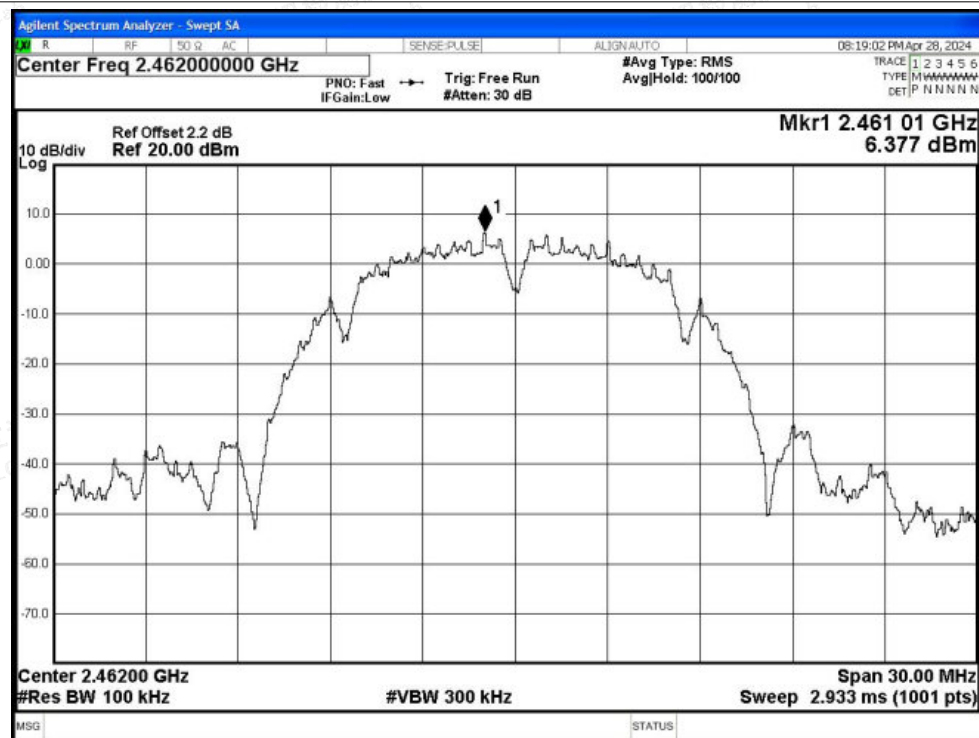
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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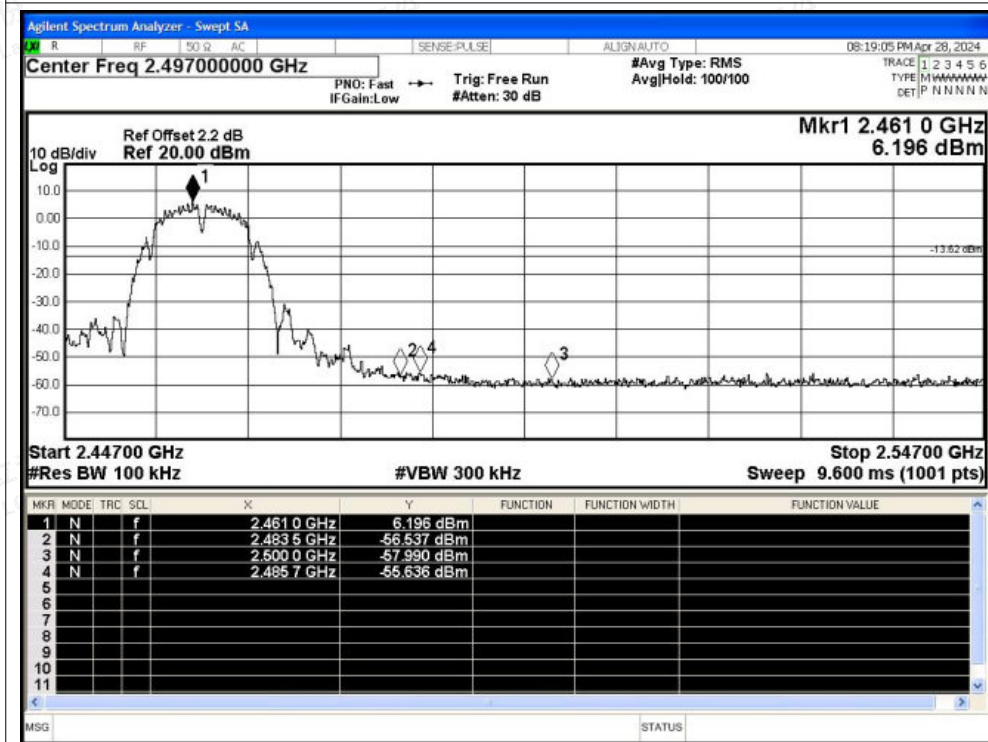
Scan code to check authenticity



## Band Edge NVNT b 2462MHz Ant1 Ref



## Band Edge NVNT b 2462MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

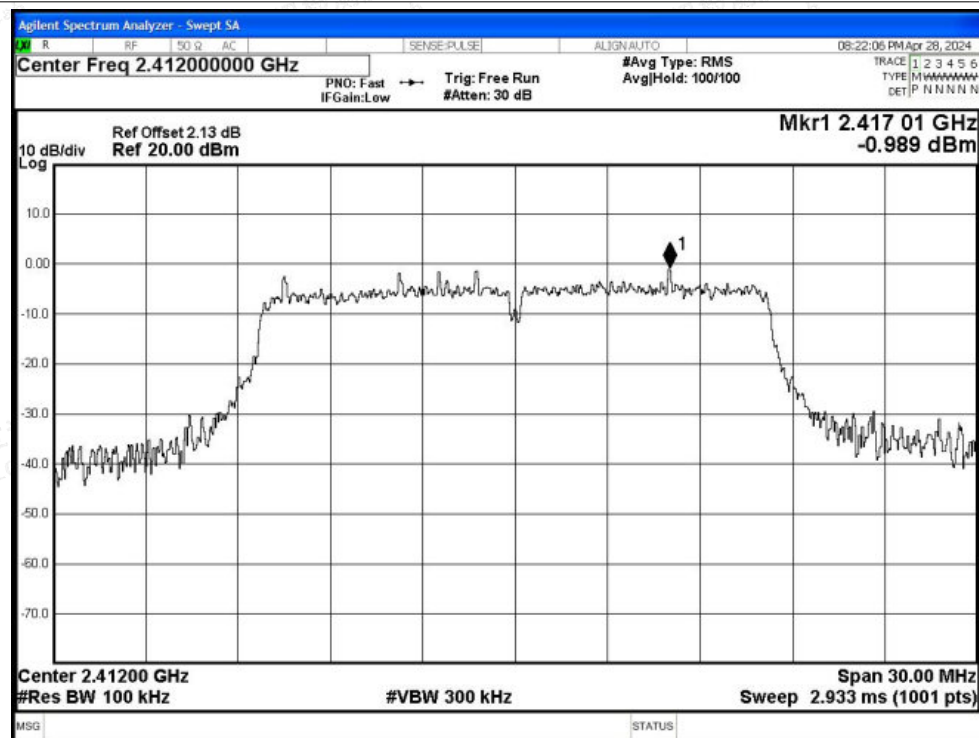
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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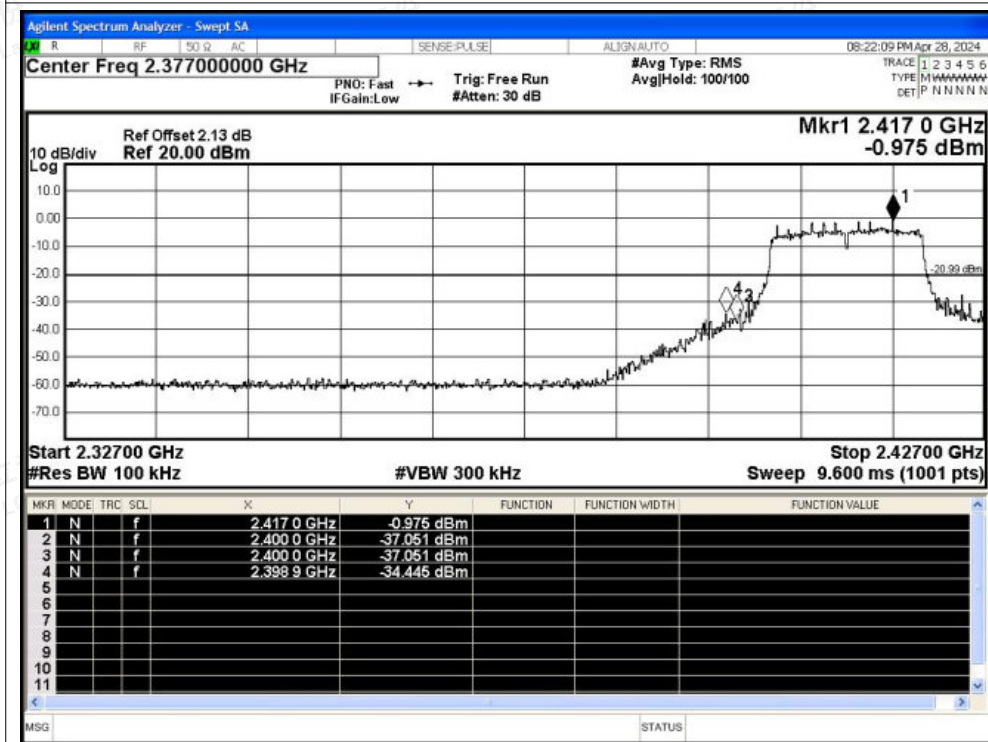
Scan code to check authenticity



## Band Edge NVNT g 2412MHz Ant1 Ref



## Band Edge NVNT g 2412MHz Ant1 Emission



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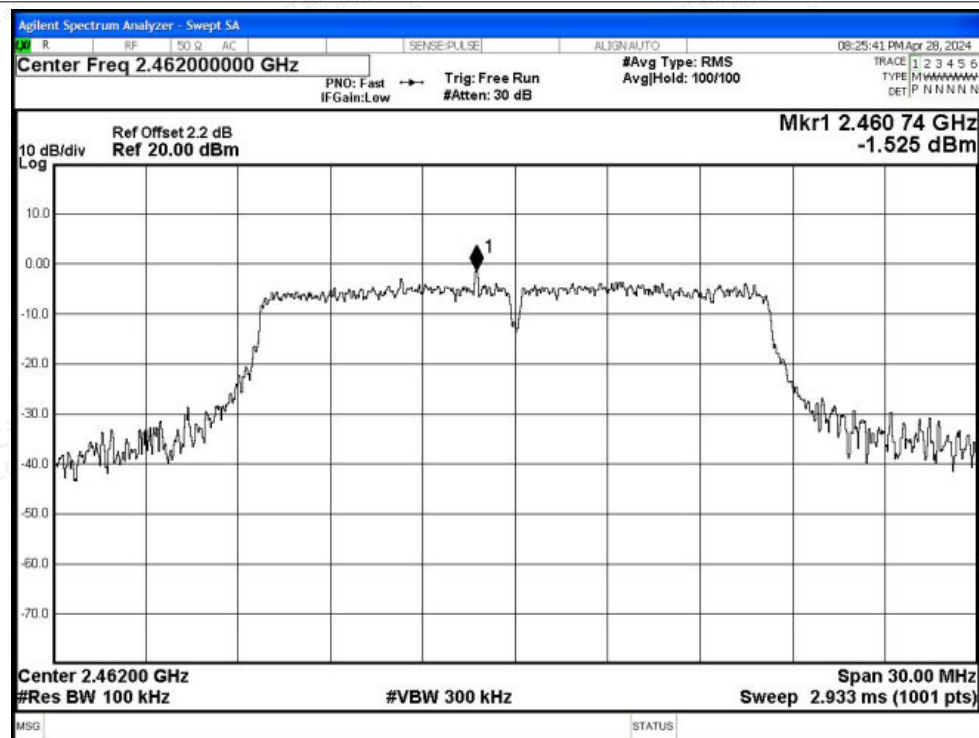
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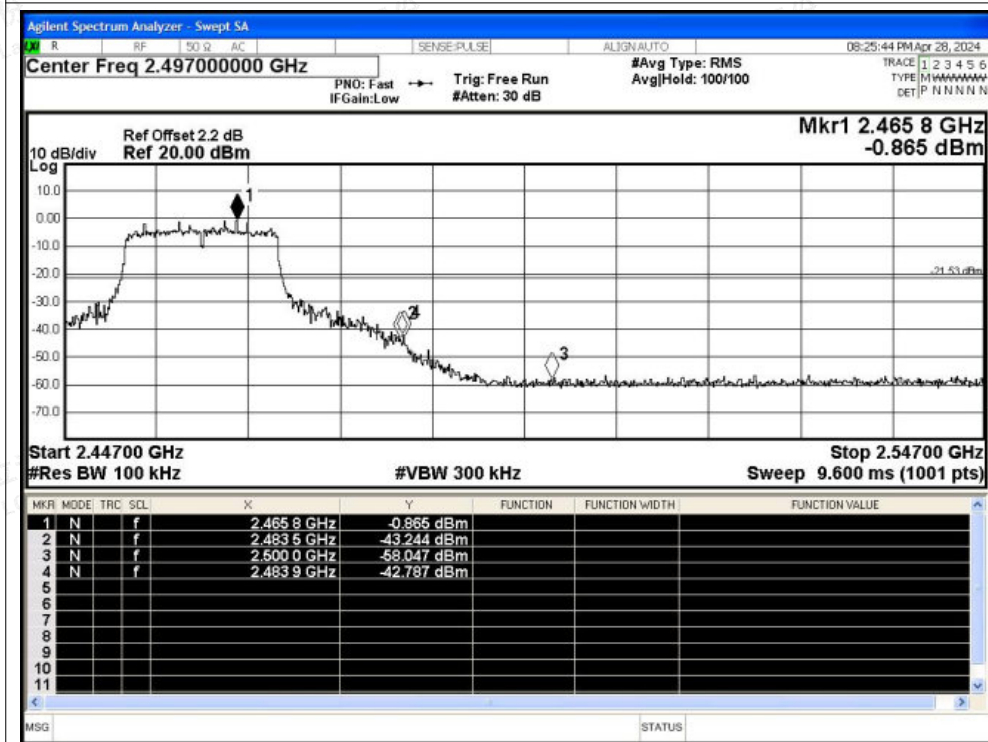




## Band Edge NVNT g 2462MHz Ant1 Ref



## Band Edge NVNT g 2462MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

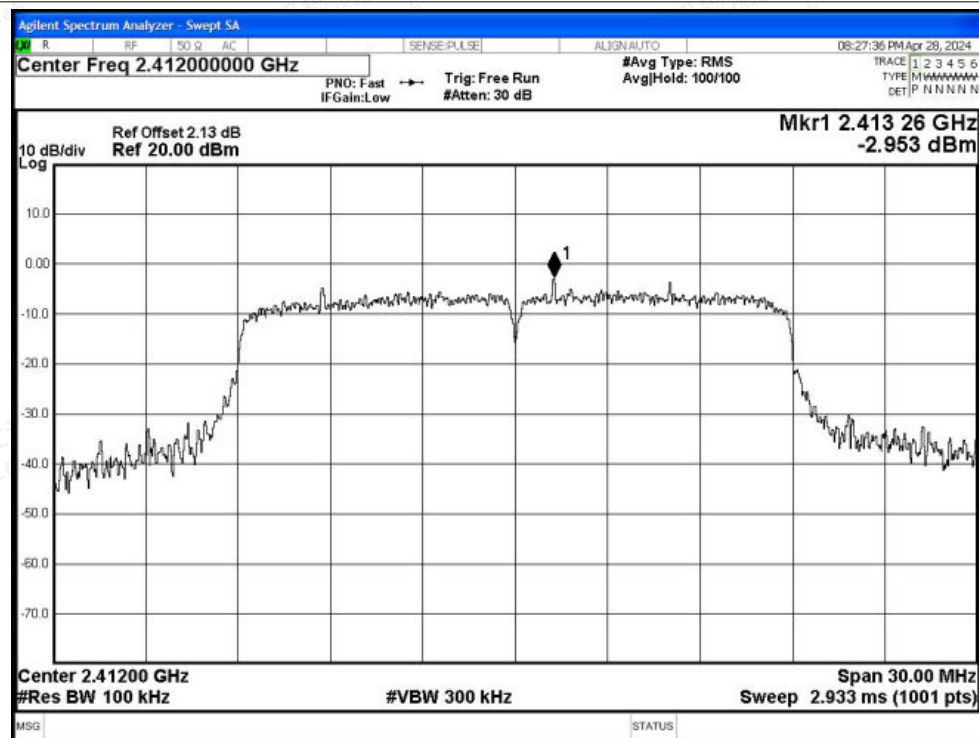
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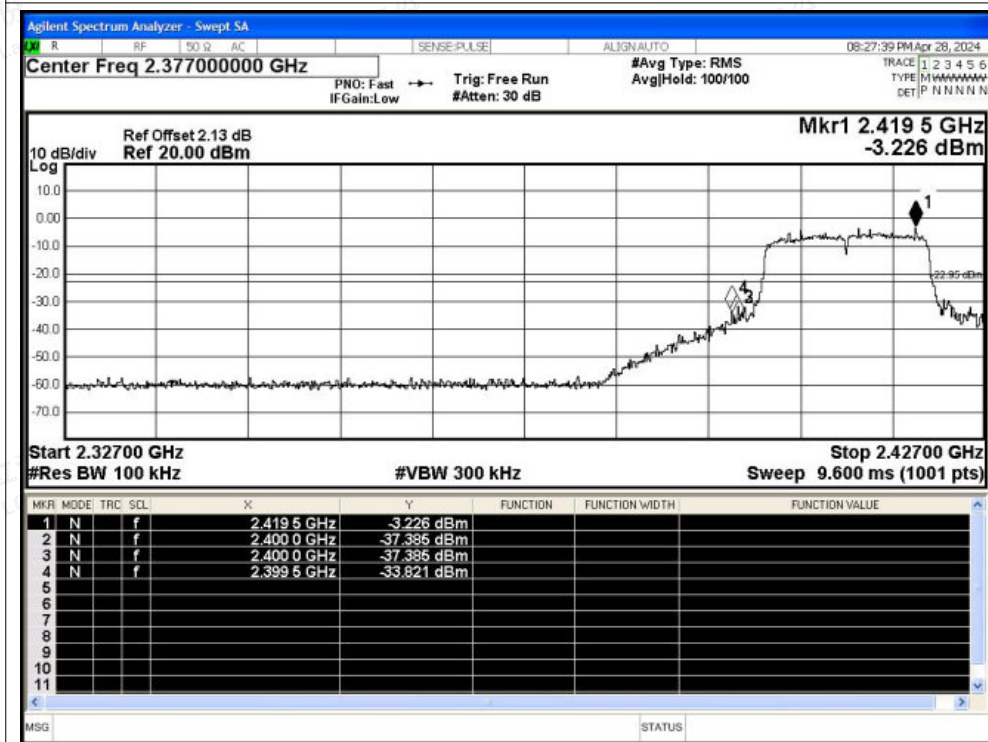
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## Band Edge NVNT n20 2412MHz Ant1 Ref



## Band Edge NVNT n20 2412MHz Ant1 Emission



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