



Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: IP Phone  
Test Model: UCV20

Environmental Conditions

|                    |                              |
|--------------------|------------------------------|
| Temperature:       | 23.5℃                        |
| Relative Humidity: | 52.2%                        |
| ATM Pressure:      | 100.0 kPa                    |
| Test Engineer:     | <div>Ling Zhu</div> Ling Zhu |
| Supervised by:     | <div>Li Huan</div> Li Huan   |





## C.1 -6dB Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | b    | 2412            | Ant1    | 8.048                 | 0.5                         | Pass    |
| NVNT      | b    | 2437            | Ant1    | 7.999                 | 0.5                         | Pass    |
| NVNT      | b    | 2462            | Ant1    | 8.039                 | 0.5                         | Pass    |
| NVNT      | g    | 2412            | Ant1    | 15.402                | 0.5                         | Pass    |
| NVNT      | g    | 2437            | Ant1    | 15.101                | 0.5                         | Pass    |
| NVNT      | g    | 2462            | Ant1    | 15.073                | 0.5                         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 16.054                | 0.5                         | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 14.411                | 0.5                         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 15.62                 | 0.5                         | Pass    |
| NVNT      | n40  | 2422            | Ant1    | 35.13                 | 0.5                         | Pass    |
| NVNT      | n40  | 2437            | Ant1    | 34.984                | 0.5                         | Pass    |
| NVNT      | n40  | 2452            | Ant1    | 33.806                | 0.5                         | Pass    |



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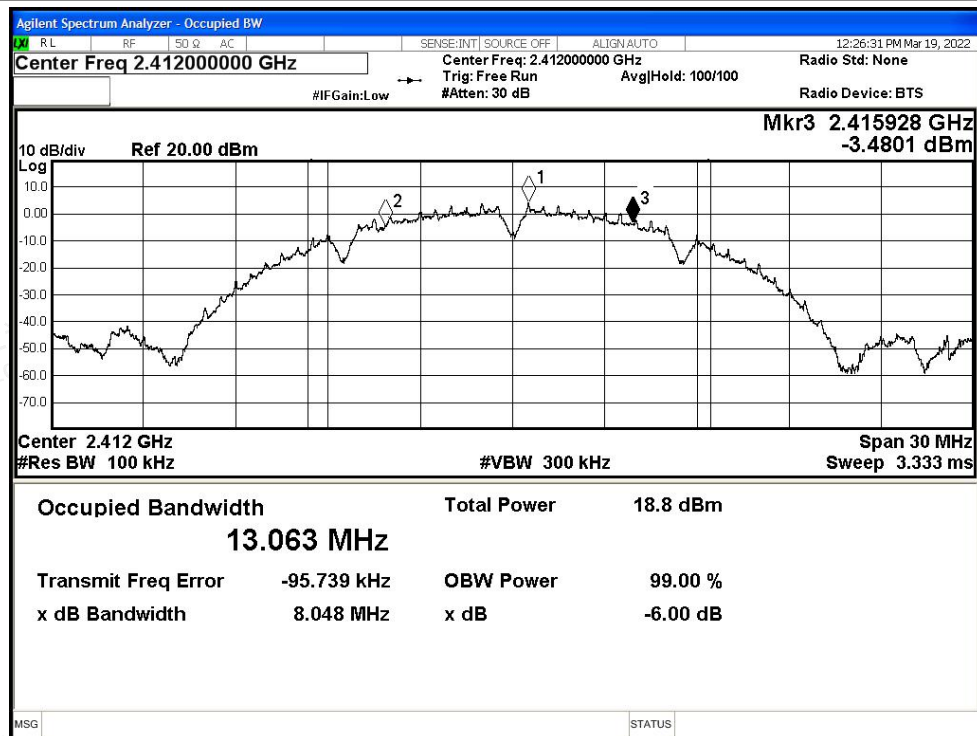
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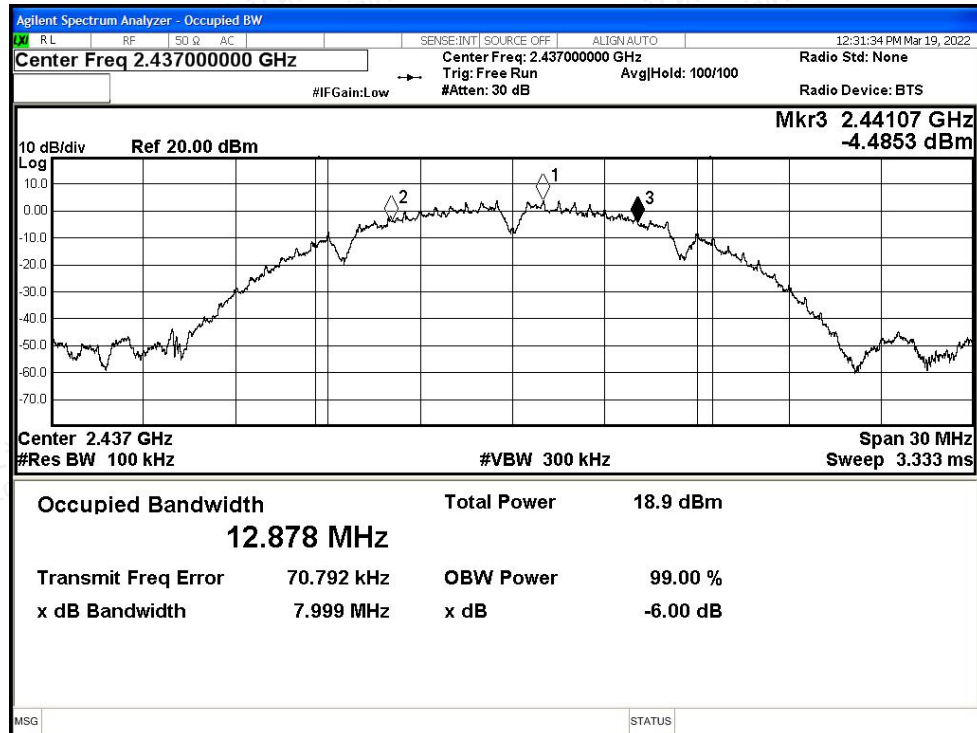


## Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1



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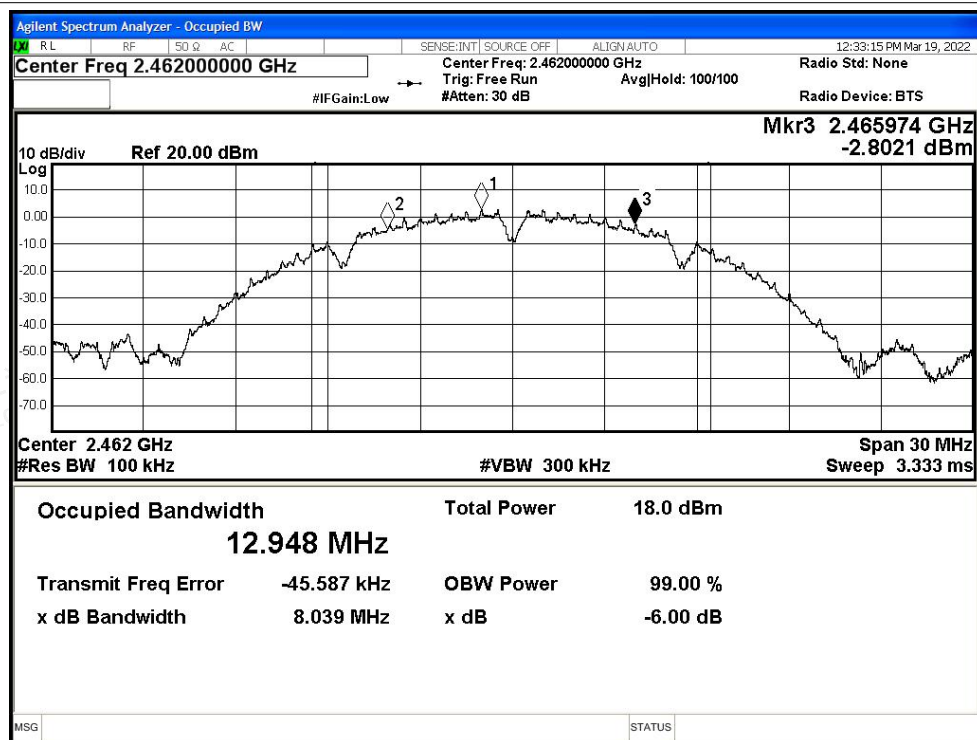
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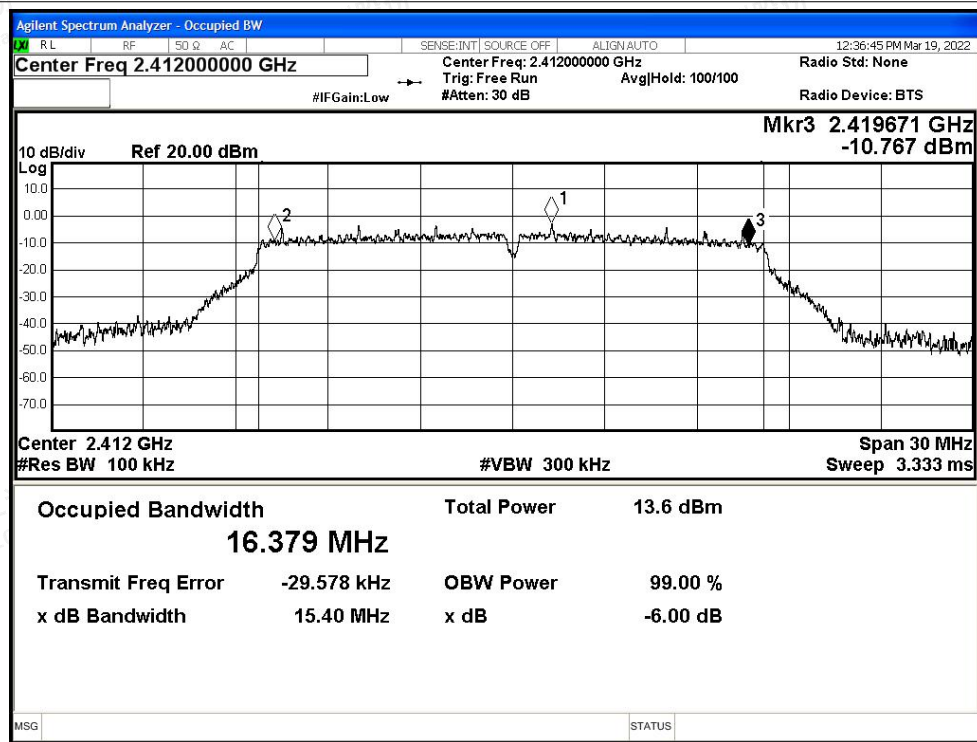
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## -6dB Bandwidth NVNT b 2462MHz Ant1



## -6dB Bandwidth NVNT g 2412MHz Ant1



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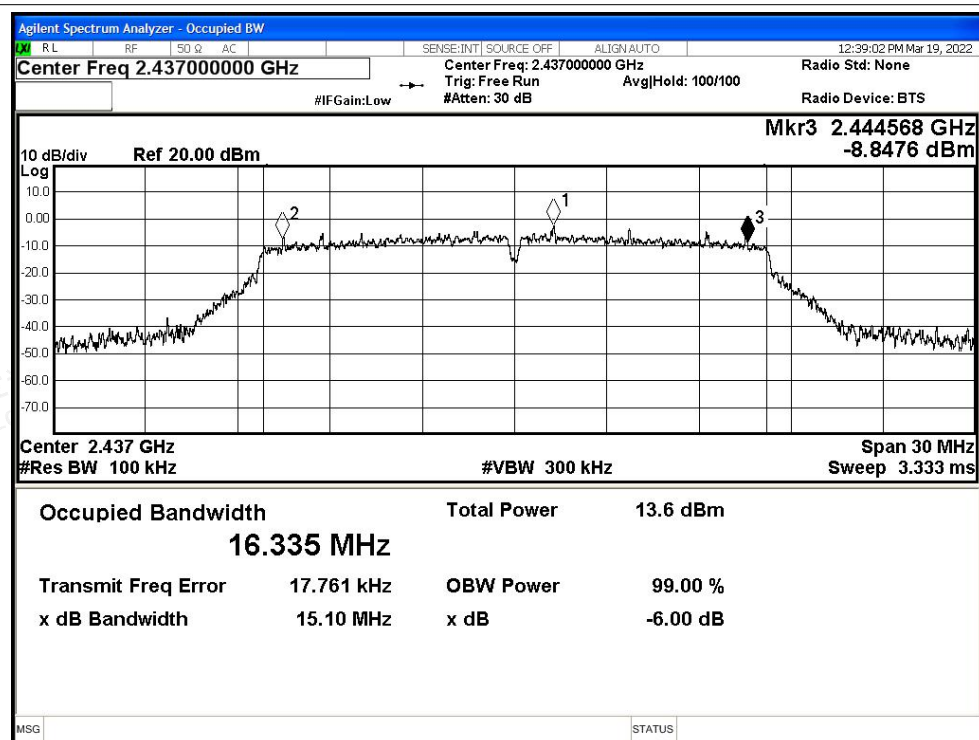
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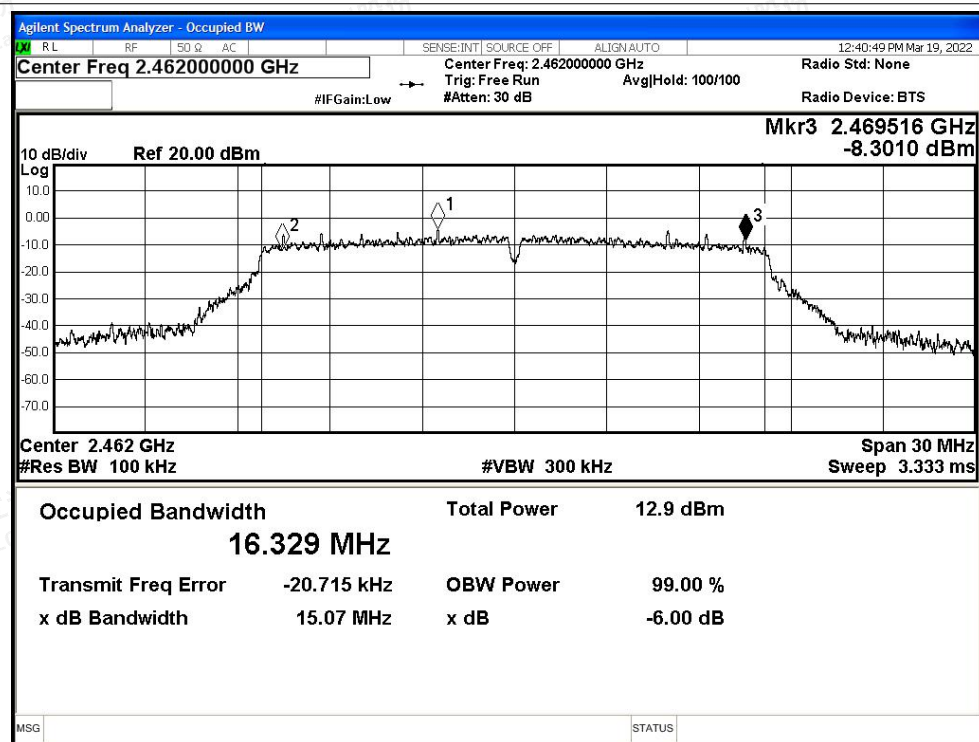
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## -6dB Bandwidth NVNT g 2437MHz Ant1



## -6dB Bandwidth NVNT g 2462MHz Ant1



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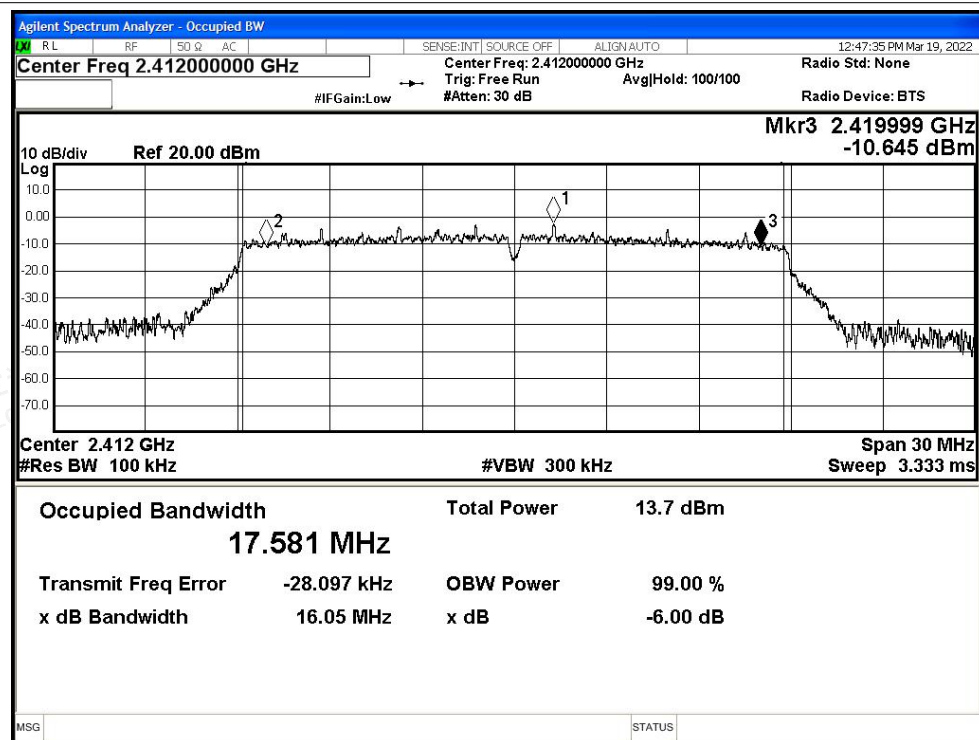
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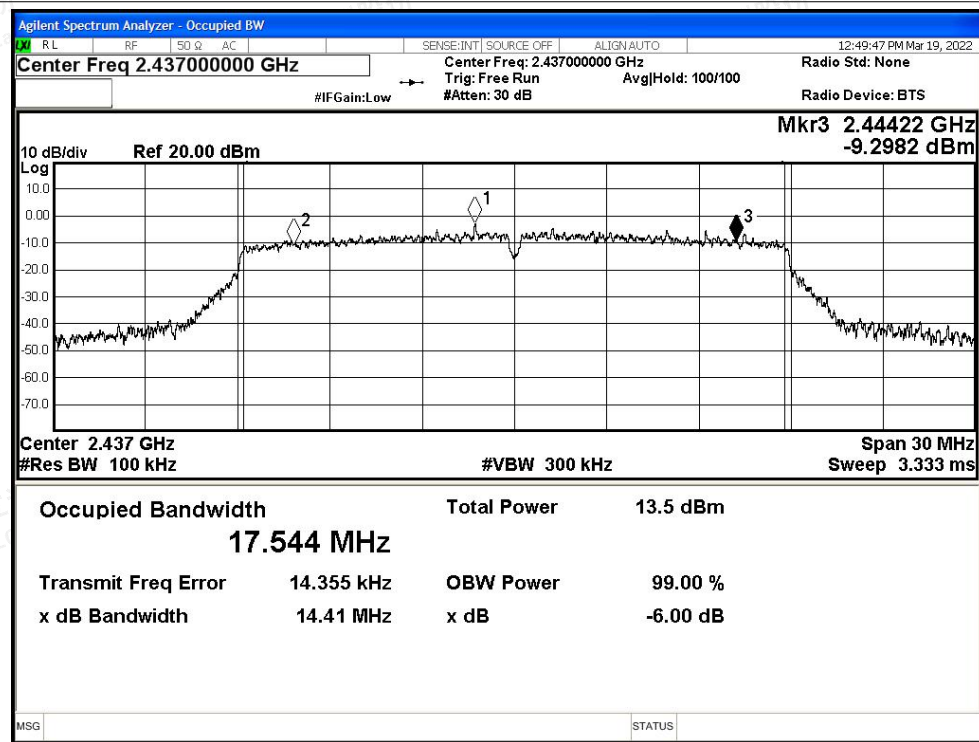
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## -6dB Bandwidth NVNT n20 2412MHz Ant1



## -6dB Bandwidth NVNT n20 2437MHz Ant1



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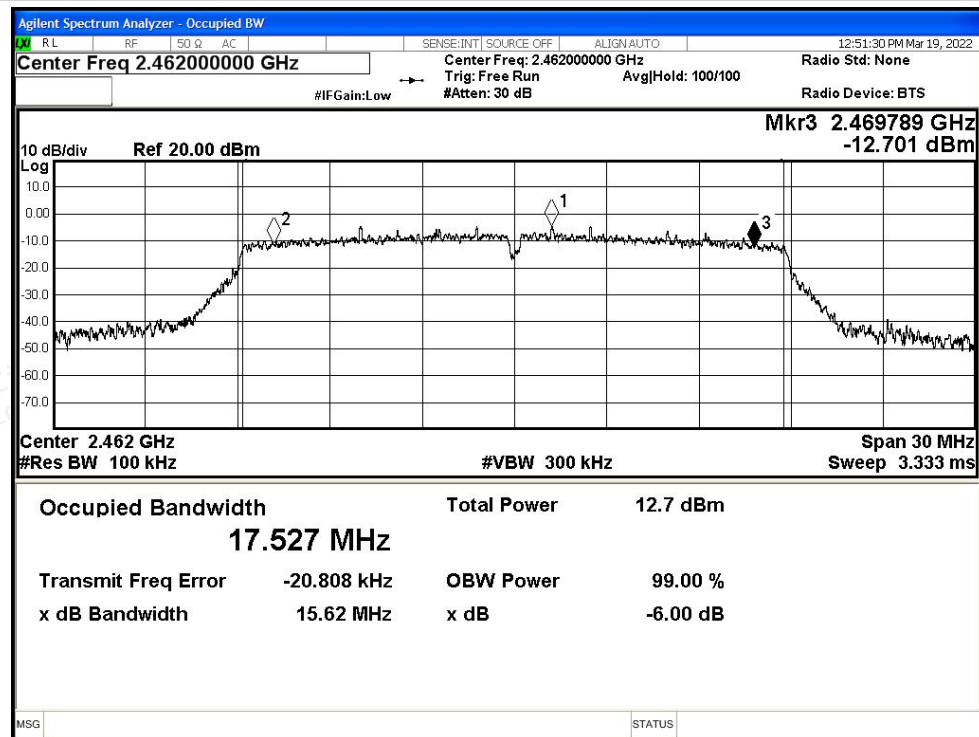
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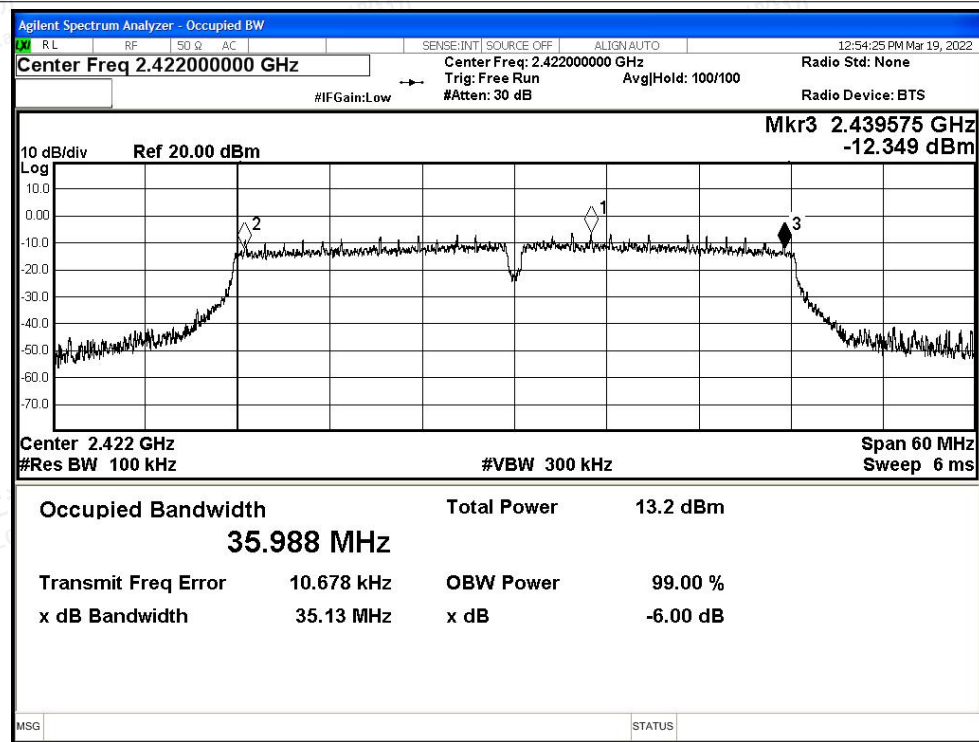
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## -6dB Bandwidth NVNT n20 2462MHz Ant1



## -6dB Bandwidth NVNT n40 2422MHz Ant1



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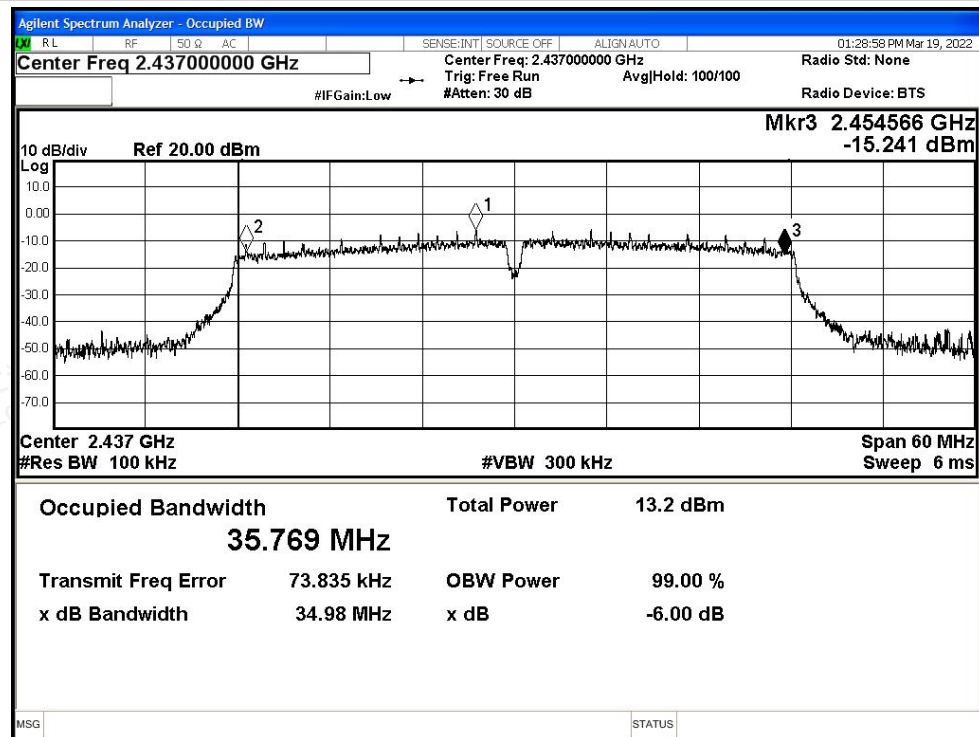
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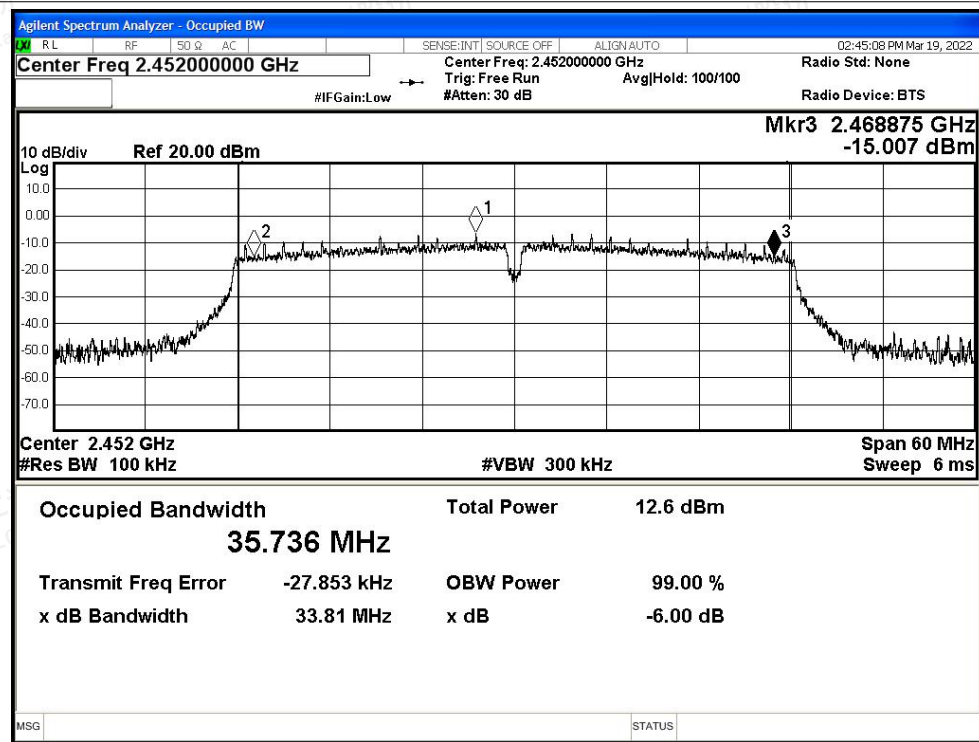
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## -6dB Bandwidth NVNT n40 2437MHz Ant1



## -6dB Bandwidth NVNT n40 2452MHz Ant1



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## C.2 Maximum Peak Conducted Output Power

| Condition | Mode | Frequency (MHz) | Antenna | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-------------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | 8.86              | 30          | Pass    |
| NVNT      | b    | 2437            | Ant1    | 8.83              | 30          | Pass    |
| NVNT      | b    | 2462            | Ant1    | 8.03              | 30          | Pass    |
| NVNT      | g    | 2412            | Ant1    | 7.3               | 30          | Pass    |
| NVNT      | g    | 2437            | Ant1    | 7.27              | 30          | Pass    |
| NVNT      | g    | 2462            | Ant1    | 7.41              | 30          | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 7.48              | 30          | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 7.25              | 30          | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 7.43              | 30          | Pass    |
| NVNT      | n40  | 2422            | Ant1    | 7.62              | 30          | Pass    |
| NVNT      | n40  | 2437            | Ant1    | 7.73              | 30          | Pass    |
| NVNT      | n40  | 2452            | Ant1    | 7.01              | 30          | Pass    |



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### C.3 Maximum Power Spectral Density Level

| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm/3kHz) | Duty Factor (dB) | Total PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|-----------|------|-----------------|---------|--------------------------|------------------|----------------------|------------------|---------|
| NVNT      | b    | 2412            | Ant1    | -10.83                   | 0                | -10.83               | 8                | Pass    |
| NVNT      | b    | 2437            | Ant1    | -9.77                    | 0                | -9.77                | 8                | Pass    |
| NVNT      | b    | 2462            | Ant1    | -11.38                   | 0                | -11.38               | 8                | Pass    |
| NVNT      | g    | 2412            | Ant1    | -16.57                   | 0                | -16.57               | 8                | Pass    |
| NVNT      | g    | 2437            | Ant1    | -17.33                   | 0                | -17.33               | 8                | Pass    |
| NVNT      | g    | 2462            | Ant1    | -17.26                   | 0                | -17.26               | 8                | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -17.24                   | 0                | -17.24               | 8                | Pass    |
| NVNT      | n20  | 2437            | Ant1    | -16.94                   | 0                | -16.94               | 8                | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -18.01                   | 0                | -18.01               | 8                | Pass    |
| NVNT      | n40  | 2422            | Ant1    | -21.16                   | 0                | -21.16               | 8                | Pass    |
| NVNT      | n40  | 2437            | Ant1    | -20.54                   | 0                | -20.54               | 8                | Pass    |
| NVNT      | n40  | 2452            | Ant1    | -21.28                   | 0                | -21.28               | 8                | Pass    |



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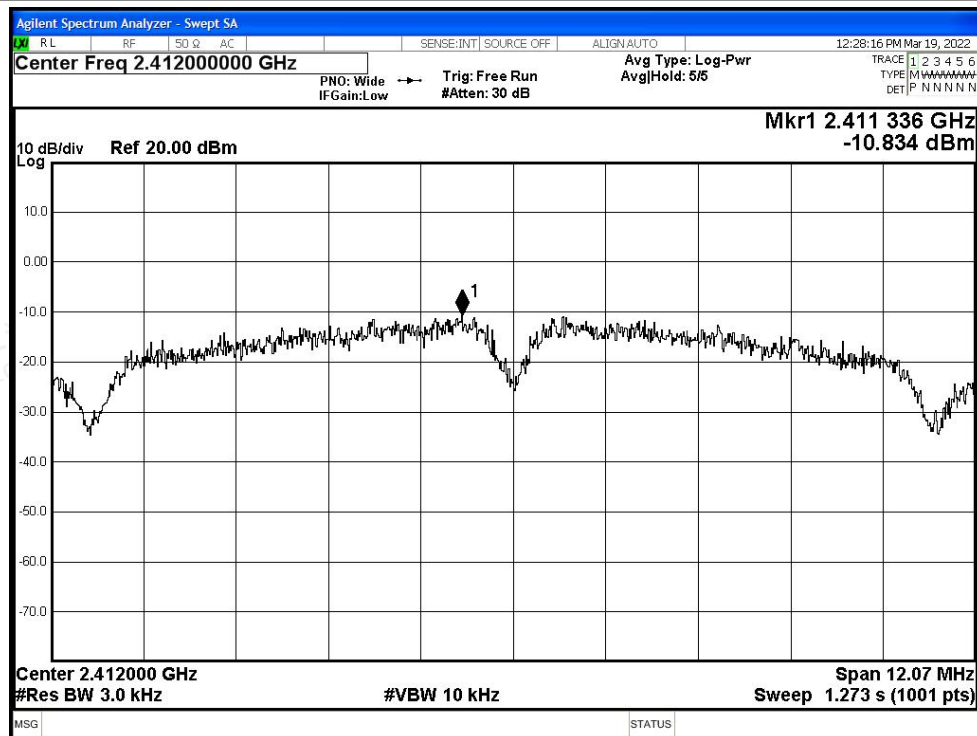
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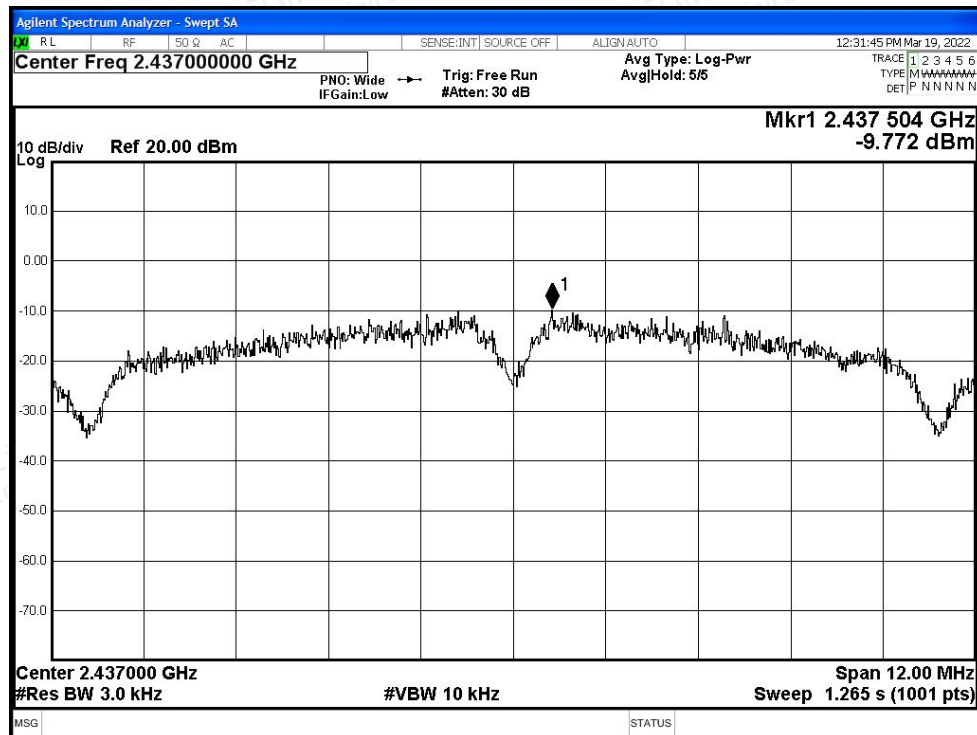


## Test Graphs

## PSD NVNT b 2412MHz Ant1



## PSD NVNT b 2437MHz Ant1



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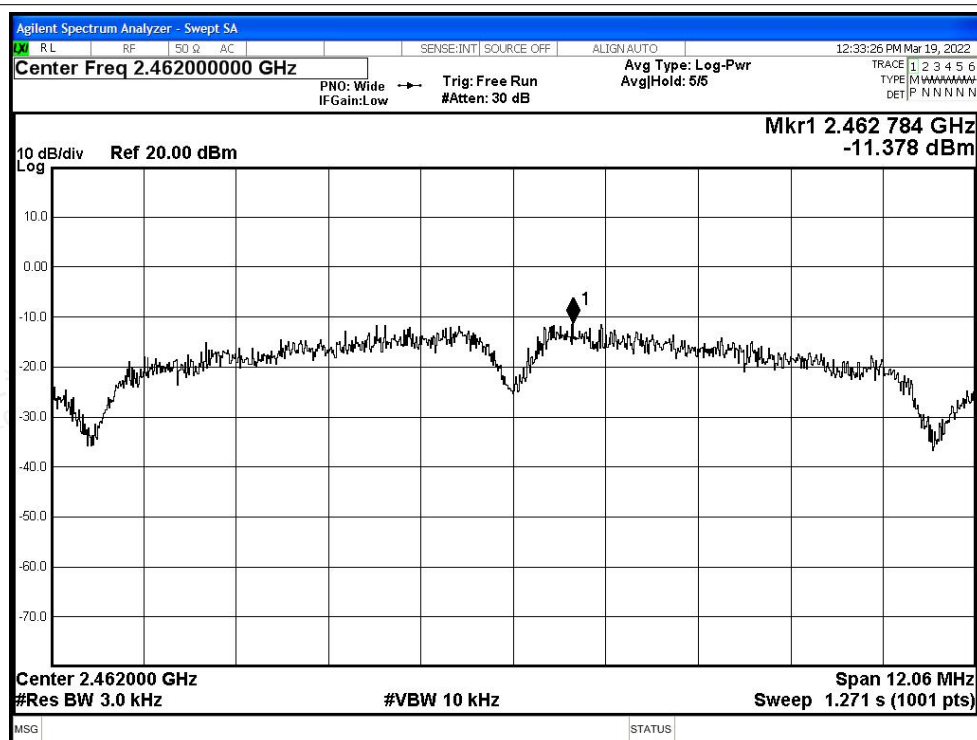
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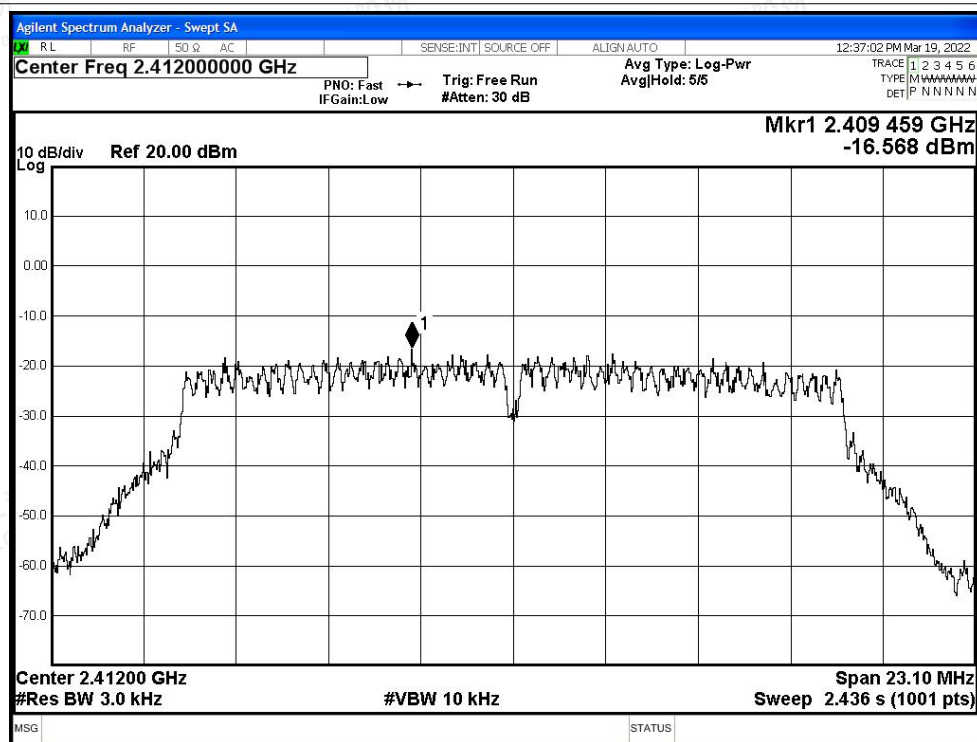
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## PSD NVNT b 2462MHz Ant1



## PSD NVNT g 2412MHz Ant1



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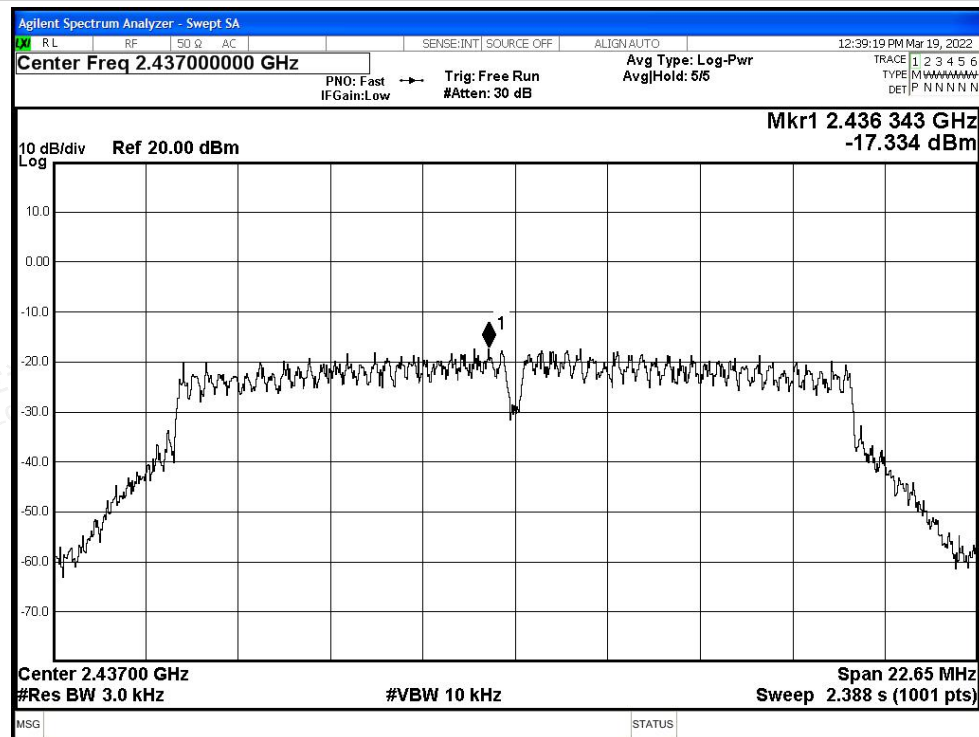
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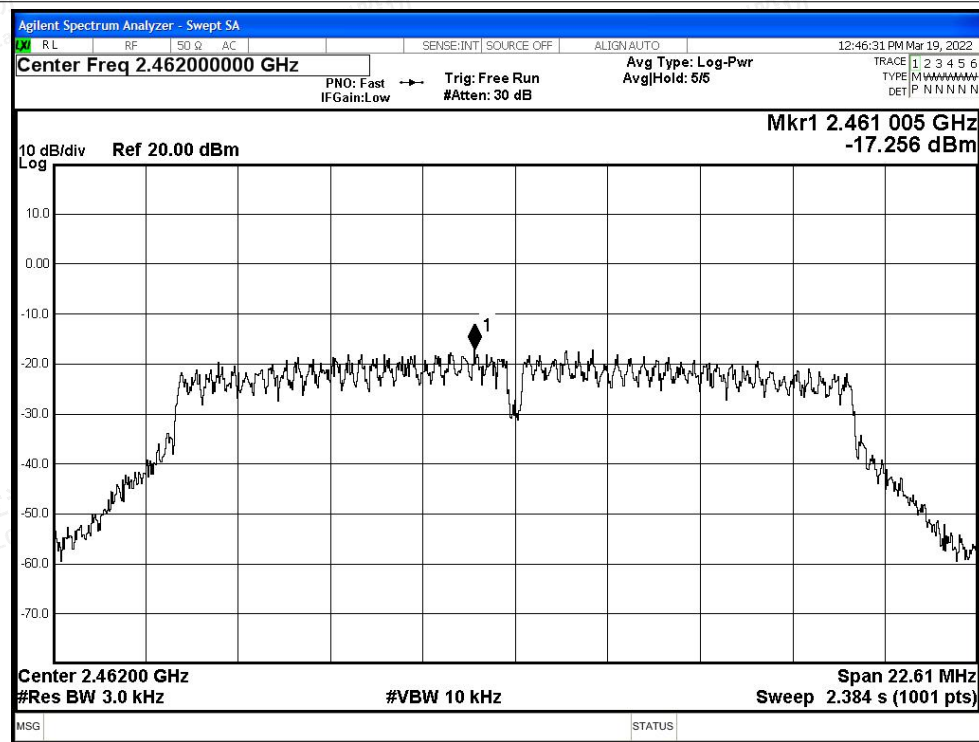
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## PSD NVNT g 2437MHz Ant1



## PSD NVNT g 2462MHz Ant1

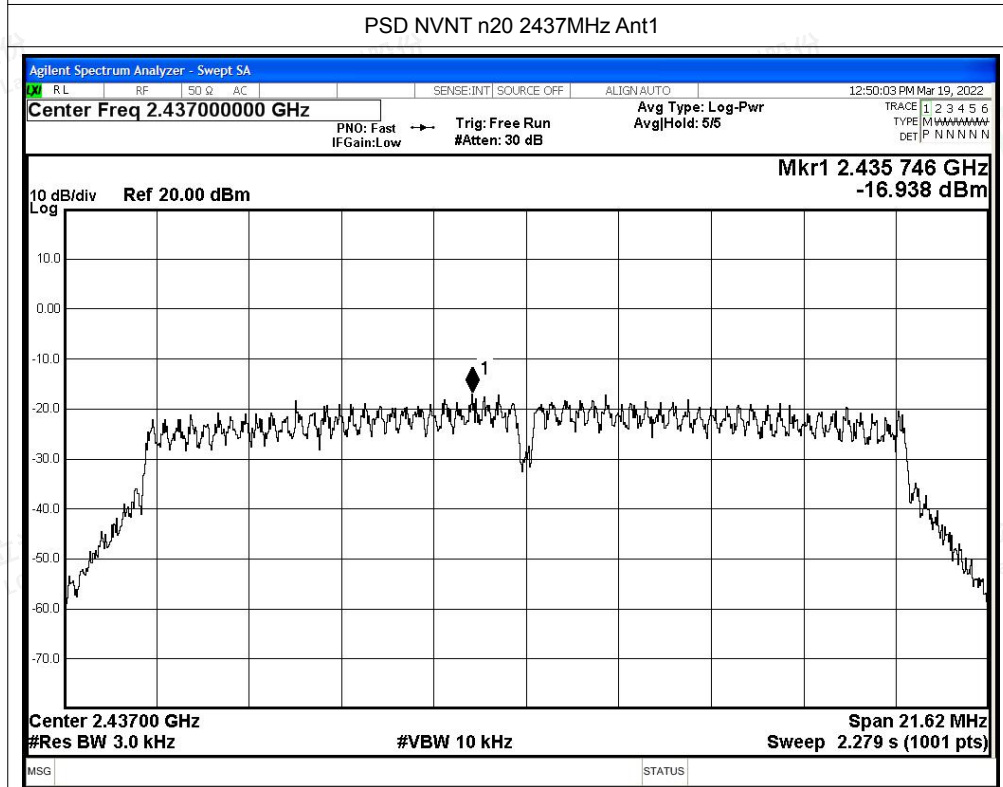
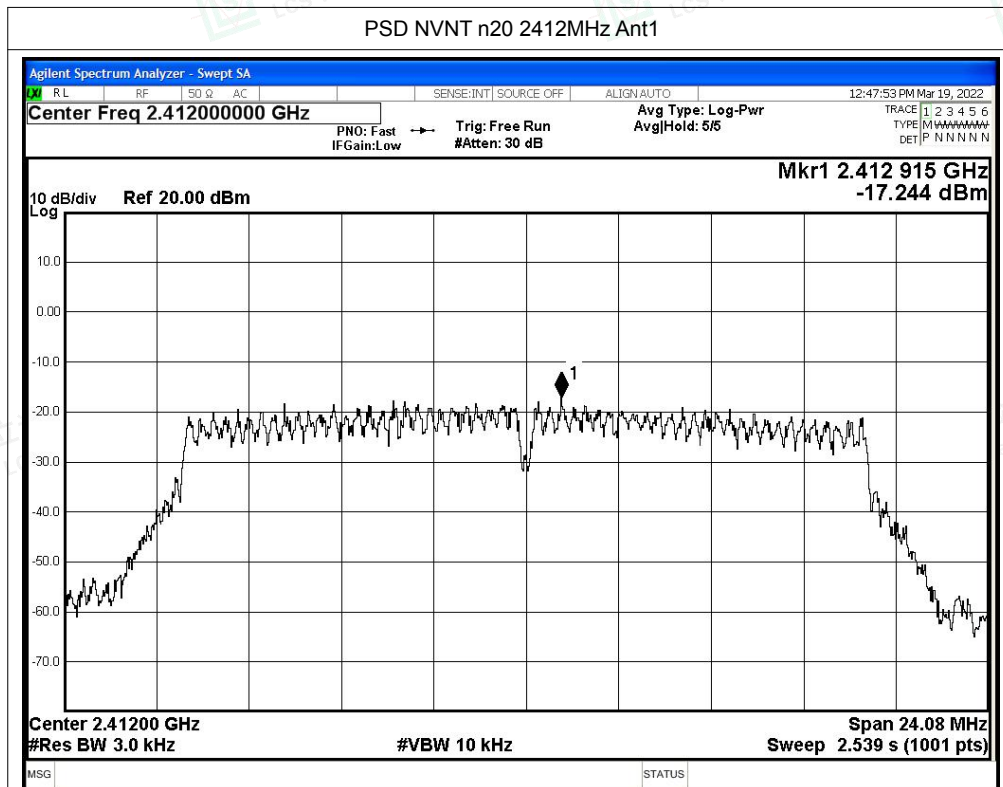


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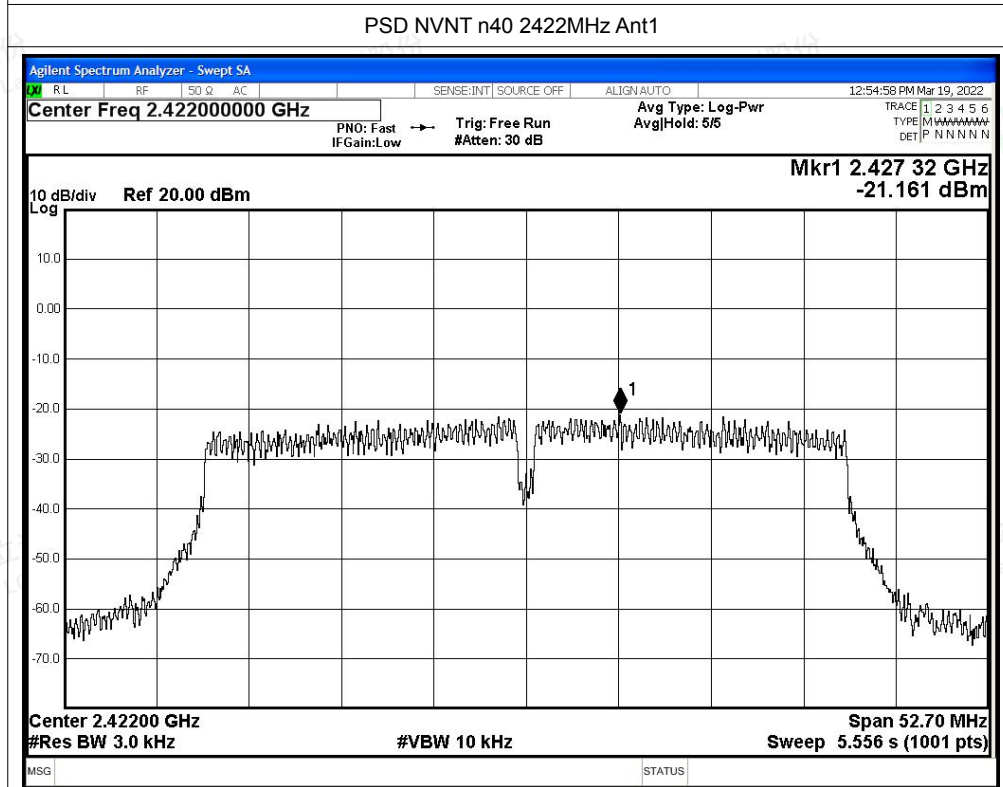
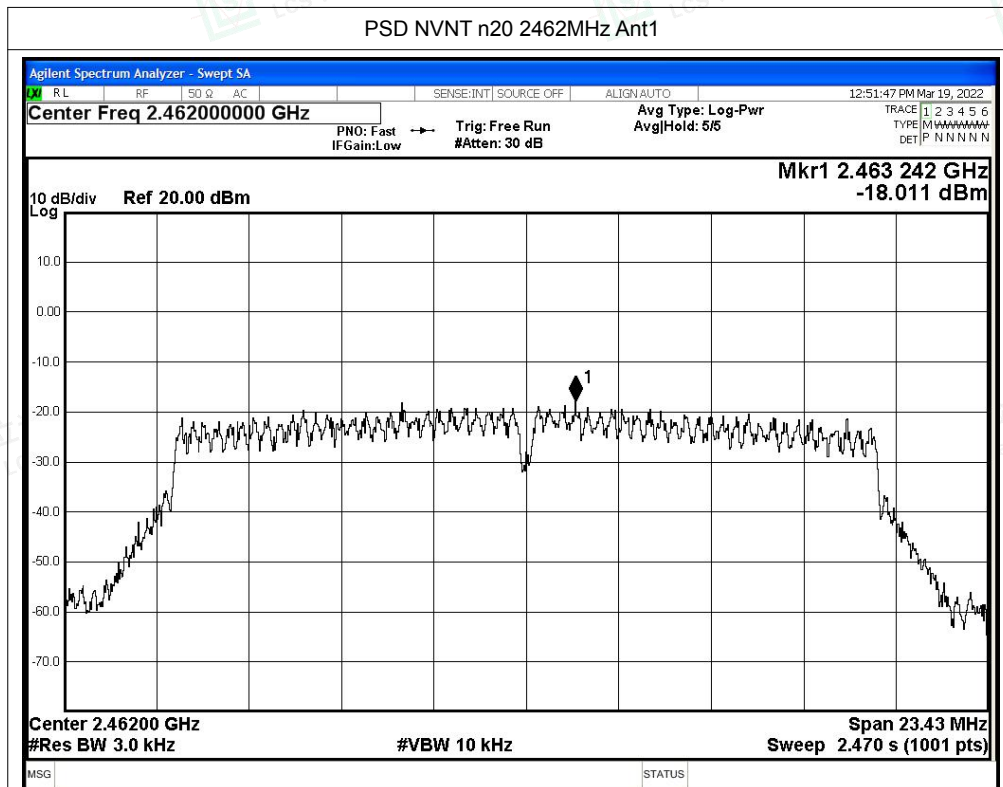


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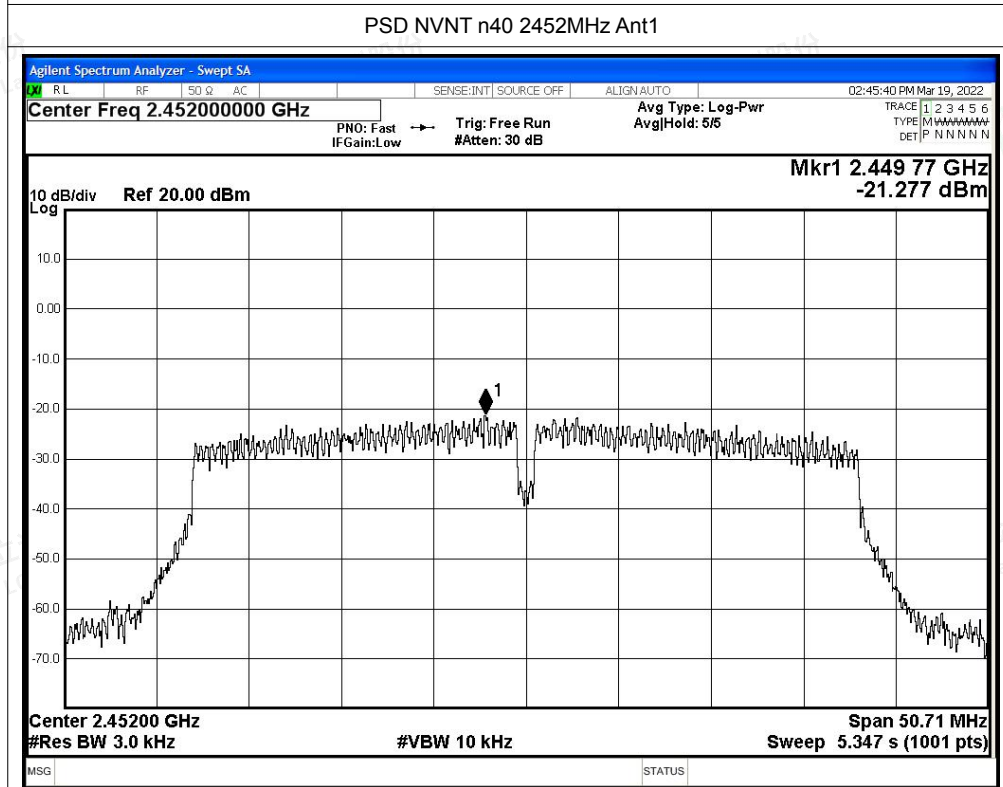
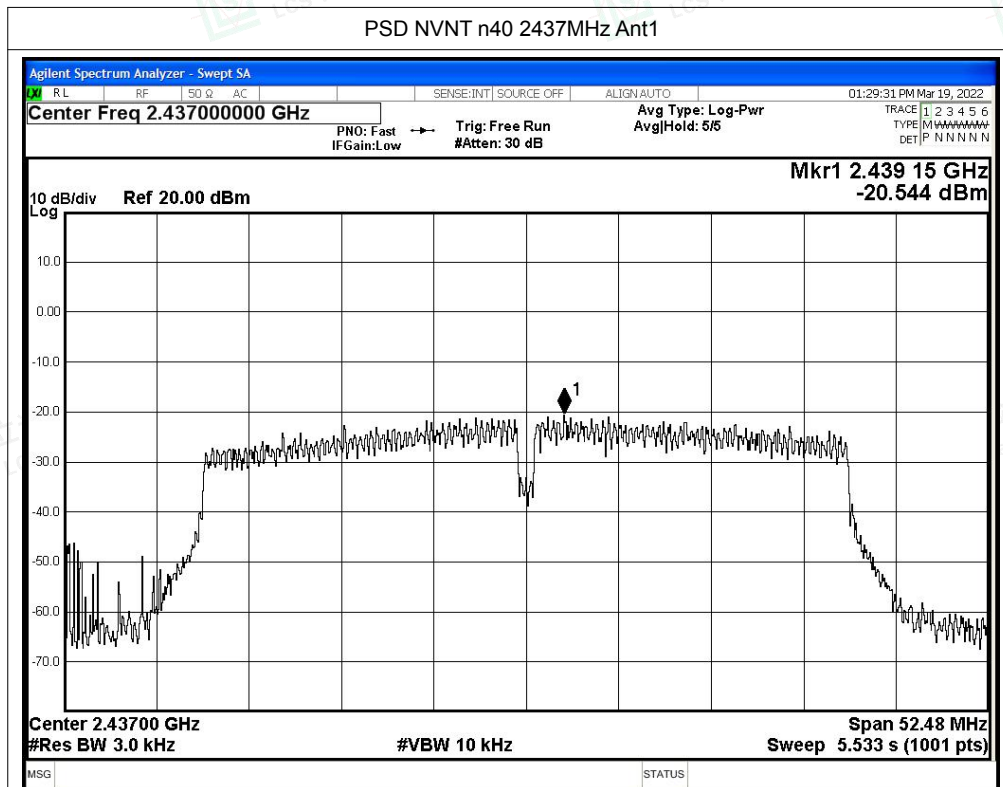


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## C.4 Band Edge

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | -45.03          | -20         | Pass    |
| NVNT      | b    | 2462            | Ant1    | -58.71          | -20         | Pass    |
| NVNT      | g    | 2412            | Ant1    | -35.02          | -20         | Pass    |
| NVNT      | g    | 2462            | Ant1    | -50.12          | -20         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -34.18          | -20         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -49.06          | -20         | Pass    |
| NVNT      | n40  | 2422            | Ant1    | -34.24          | -20         | Pass    |
| NVNT      | n40  | 2452            | Ant1    | -38.62          | -20         | Pass    |



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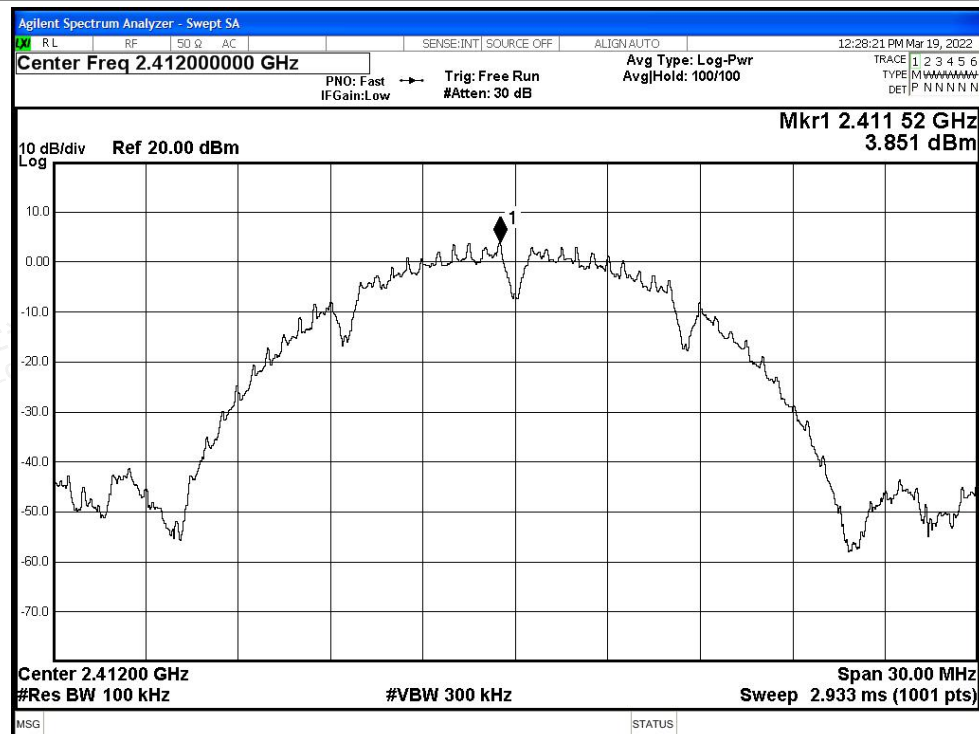
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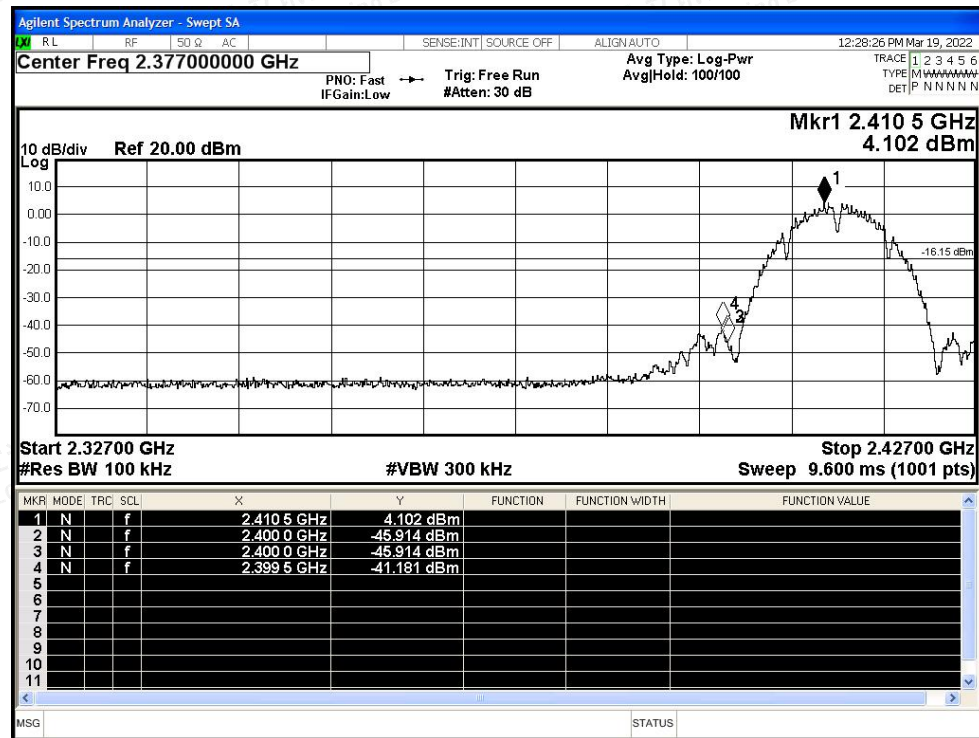


## Test Graphs

## Band Edge NVNT b 2412MHz Ant1 Ref



## Band Edge NVNT b 2412MHz Ant1 Emission

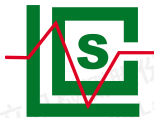


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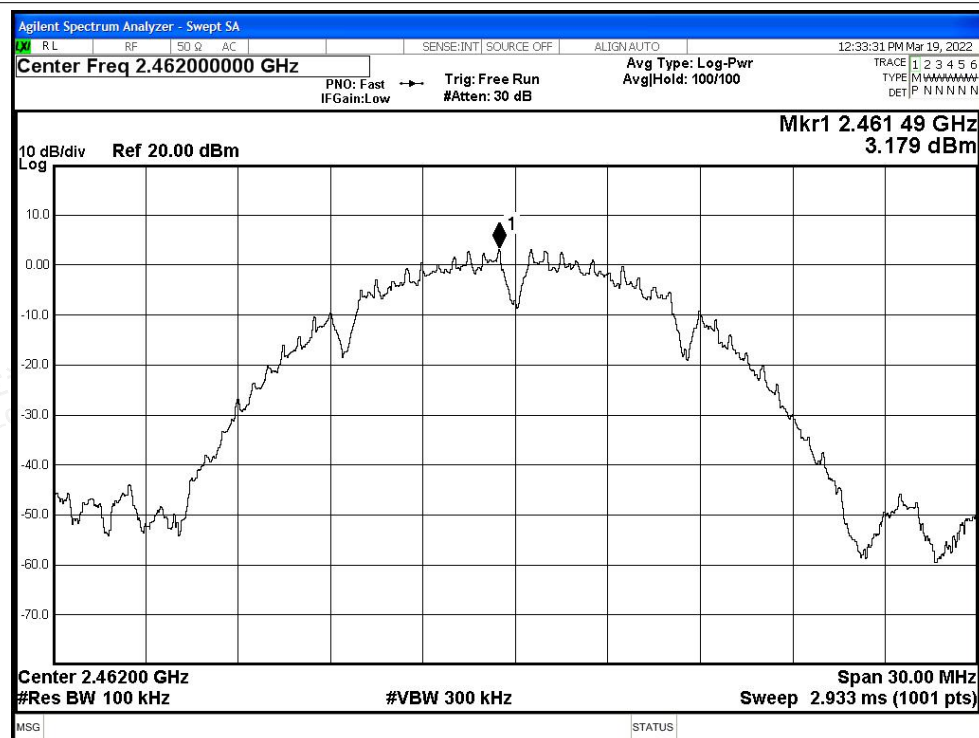
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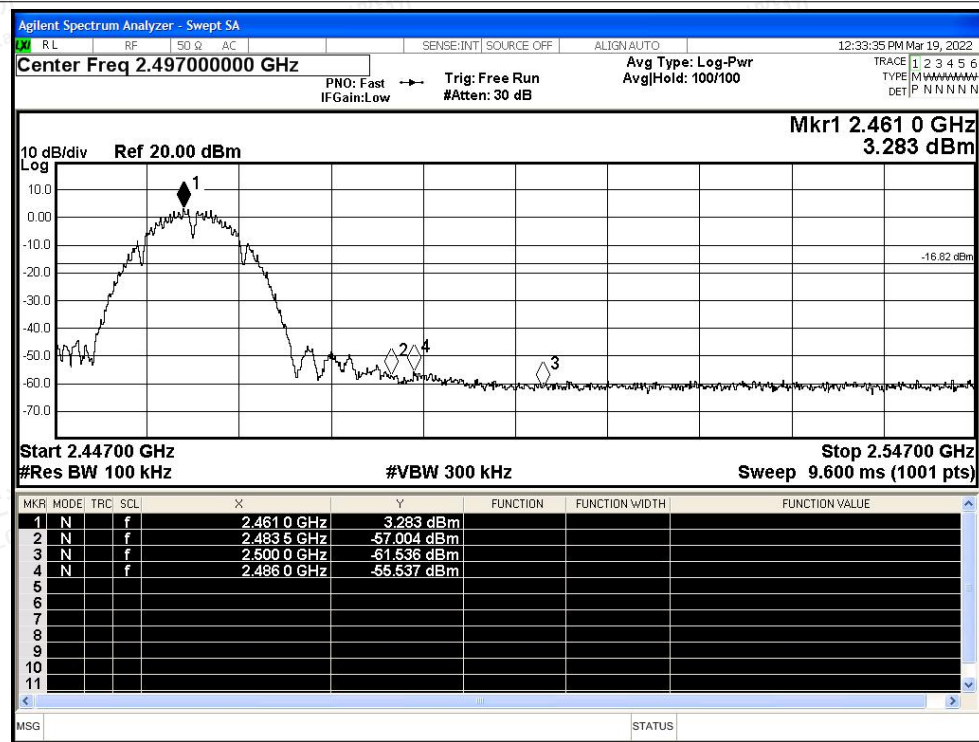
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## Band Edge NVNT b 2462MHz Ant1 Ref



## Band Edge NVNT b 2462MHz Ant1 Emission



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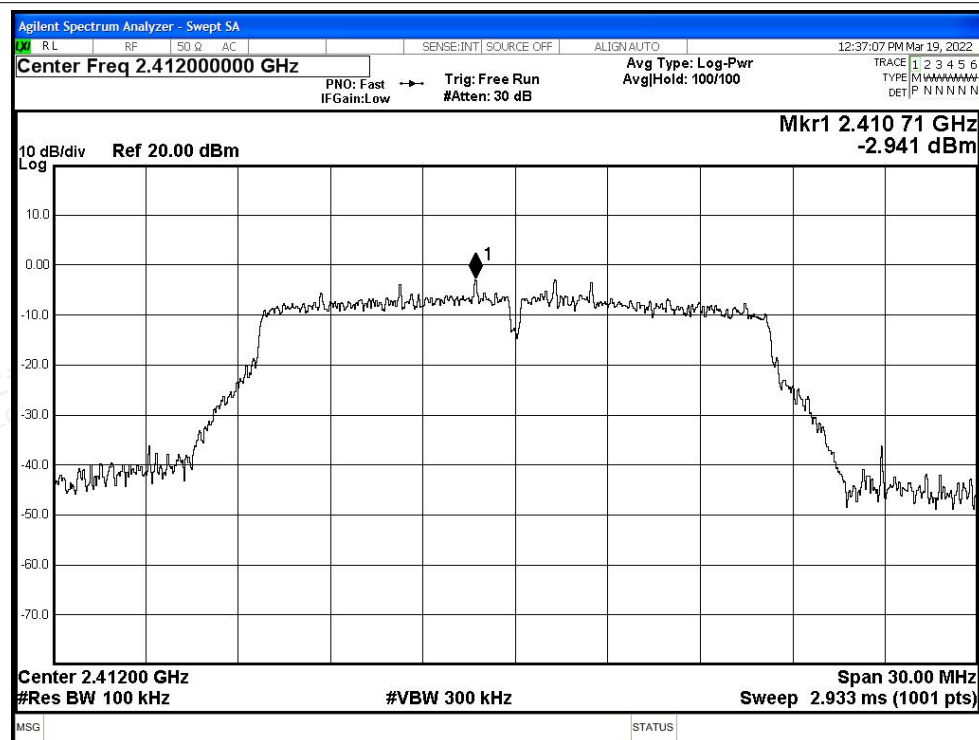
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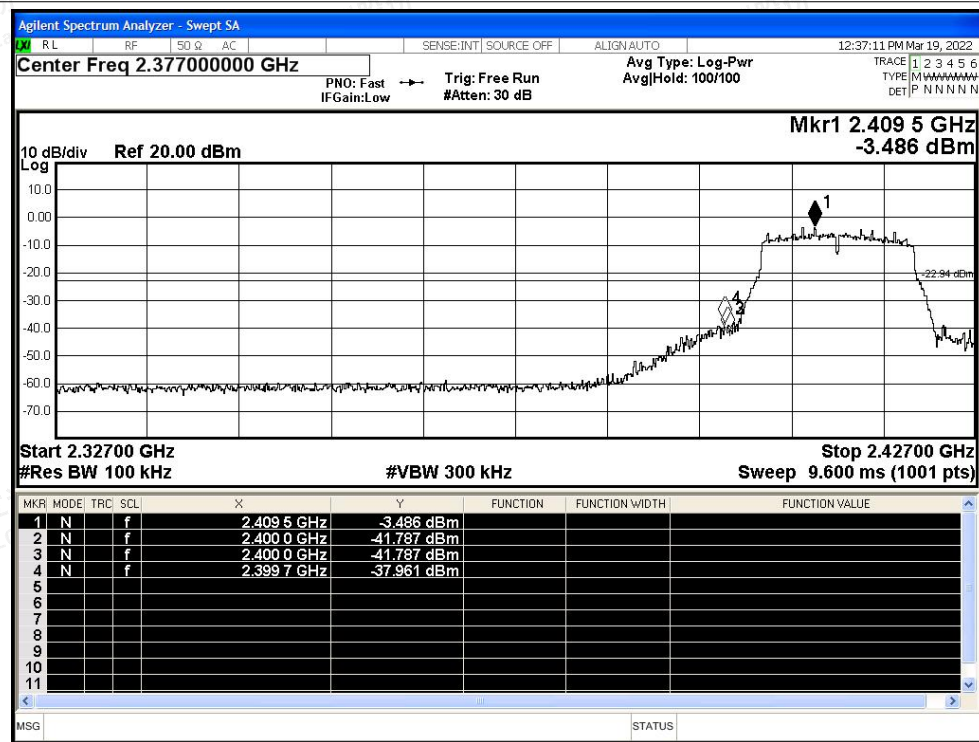
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## Band Edge NVNT g 2412MHz Ant1 Ref



## Band Edge NVNT g 2412MHz Ant1 Emission



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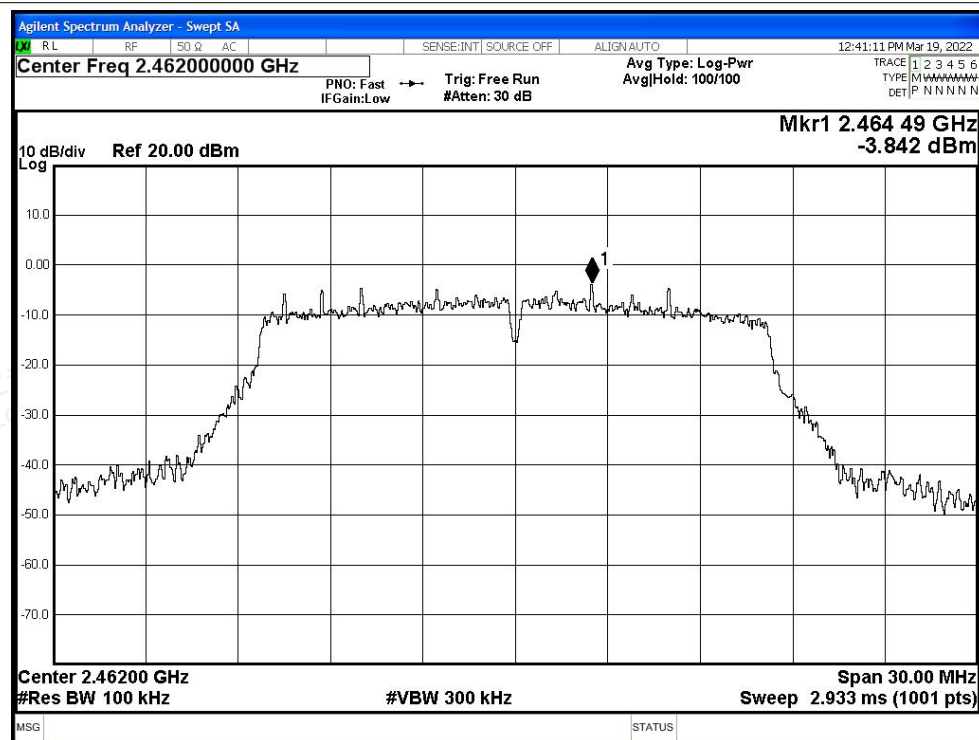
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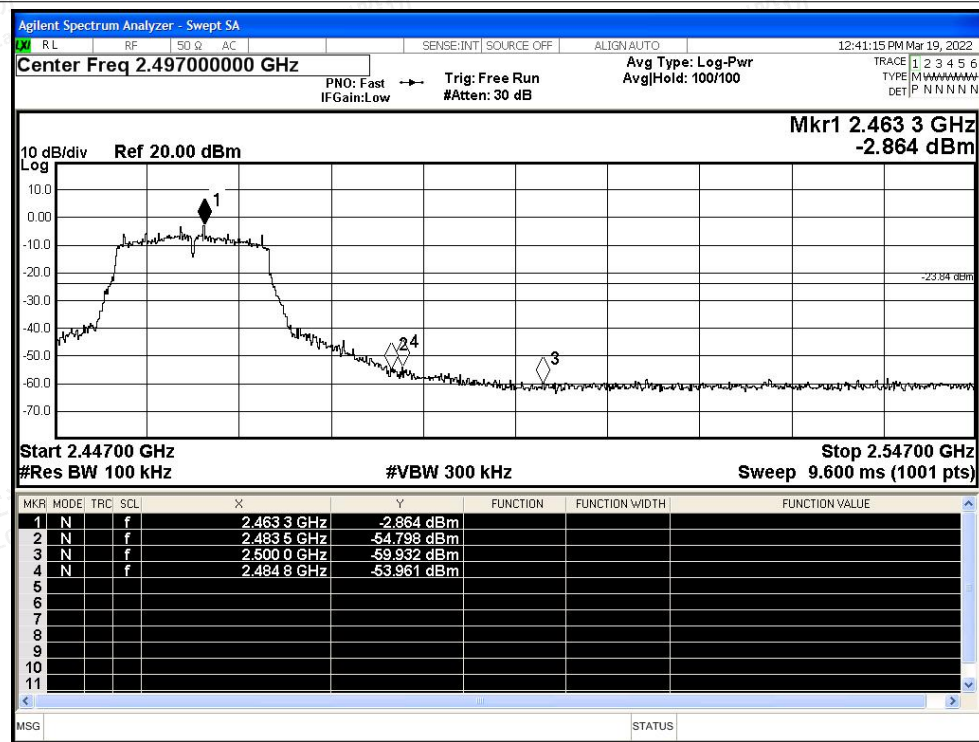
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## Band Edge NVNT g 2462MHz Ant1 Ref



## Band Edge NVNT g 2462MHz Ant1 Emission



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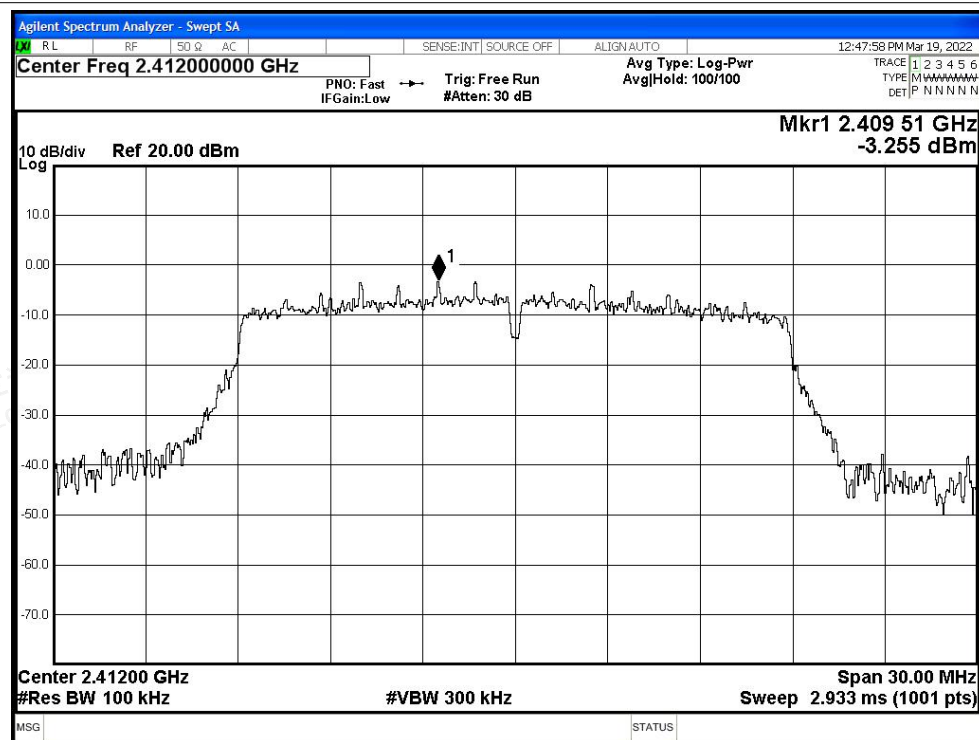
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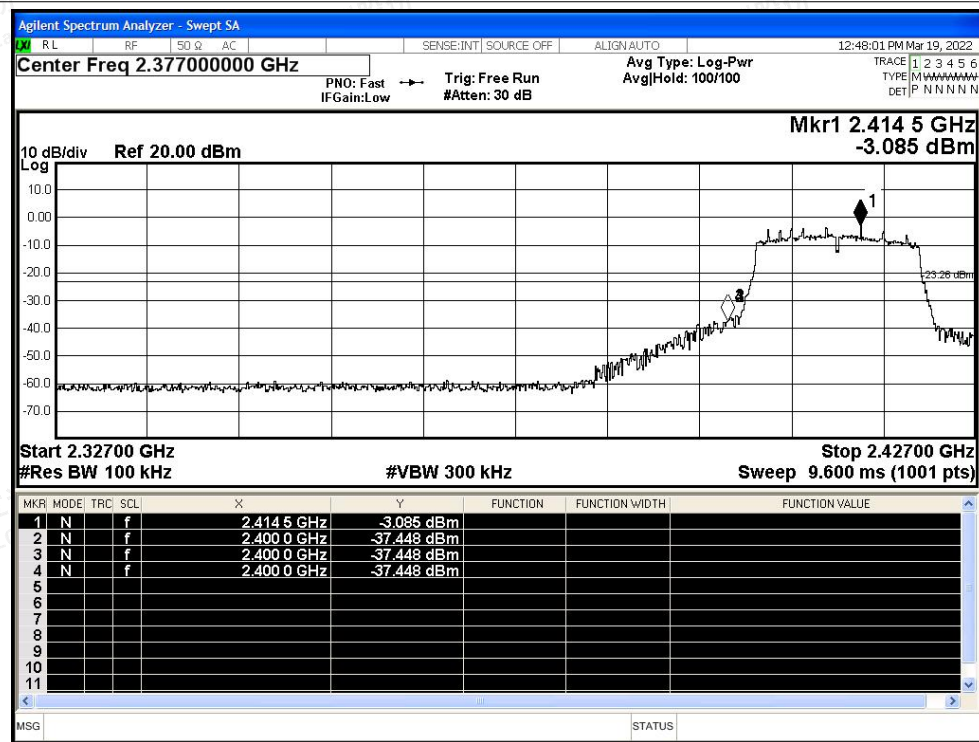
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## Band Edge NVNT n20 2412MHz Ant1 Ref



## Band Edge NVNT n20 2412MHz Ant1 Emission



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