



## Appendix A

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

Product Name: 4K Digital Video Camera

Test Model: G700

#### Environmental Conditions

|                    |            |
|--------------------|------------|
| Temperature:       | 23.8 ° C   |
| Relative Humidity: | 52.3%      |
| ATM Pressure:      | 100.0 kPa  |
| Test Engineer:     | Eason Zhou |
| Supervised by:     | Nick Peng  |



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## A.1 -6dB Bandwidth

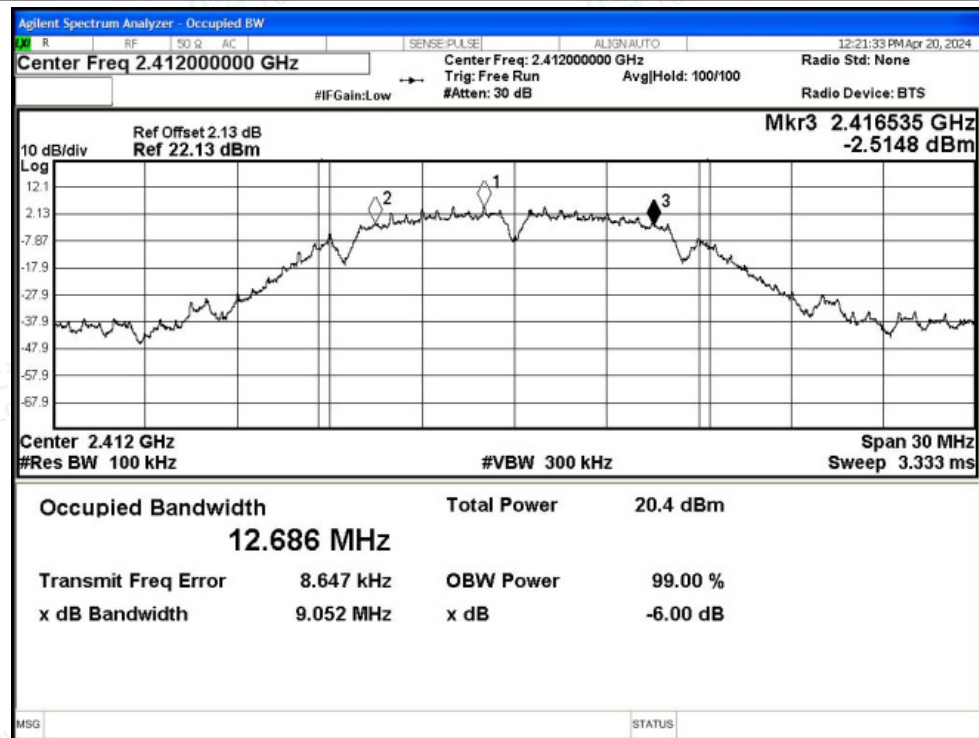
| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | b    | 2412            | Ant1    | 9.052                 | $\geq 0.5$                  | Pass    |
| NVNT      | b    | 2437            | Ant1    | 9.555                 | $\geq 0.5$                  | Pass    |
| NVNT      | b    | 2462            | Ant1    | 10.029                | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2412            | Ant1    | 15.349                | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2437            | Ant1    | 15.047                | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2462            | Ant1    | 15.329                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 15.034                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 16.874                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 16.369                | $\geq 0.5$                  | Pass    |
| NVNT      | n40  | 2422            | Ant1    | 33.841                | $\geq 0.5$                  | Pass    |
| NVNT      | n40  | 2437            | Ant1    | 35.102                | $\geq 0.5$                  | Pass    |
| NVNT      | n40  | 2452            | Ant1    | 35.144                | $\geq 0.5$                  | Pass    |



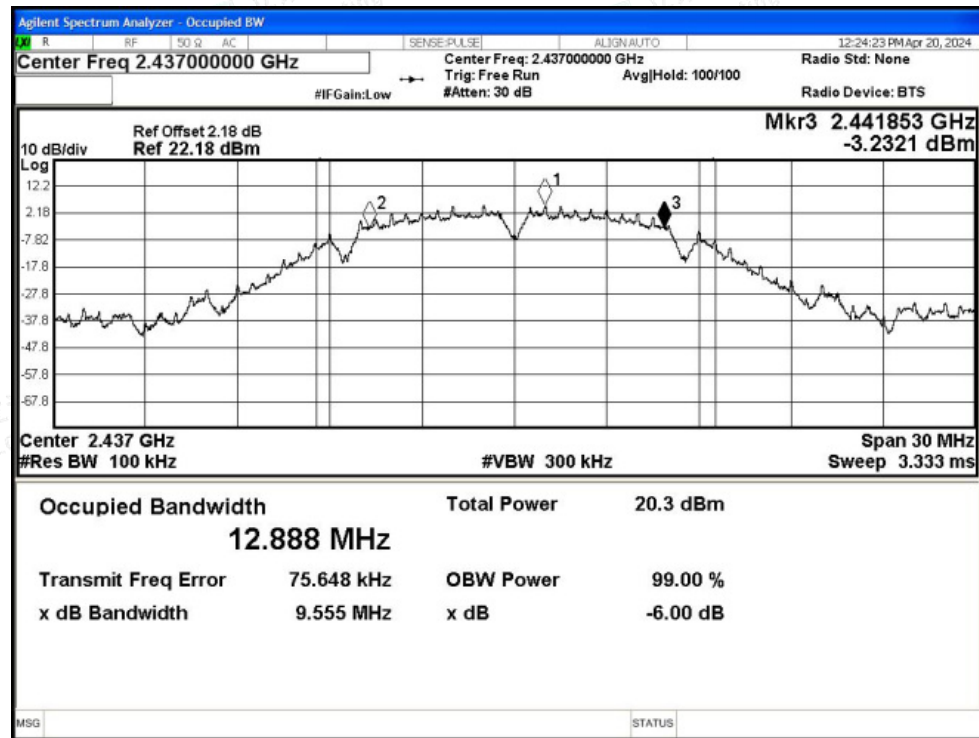


## Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1



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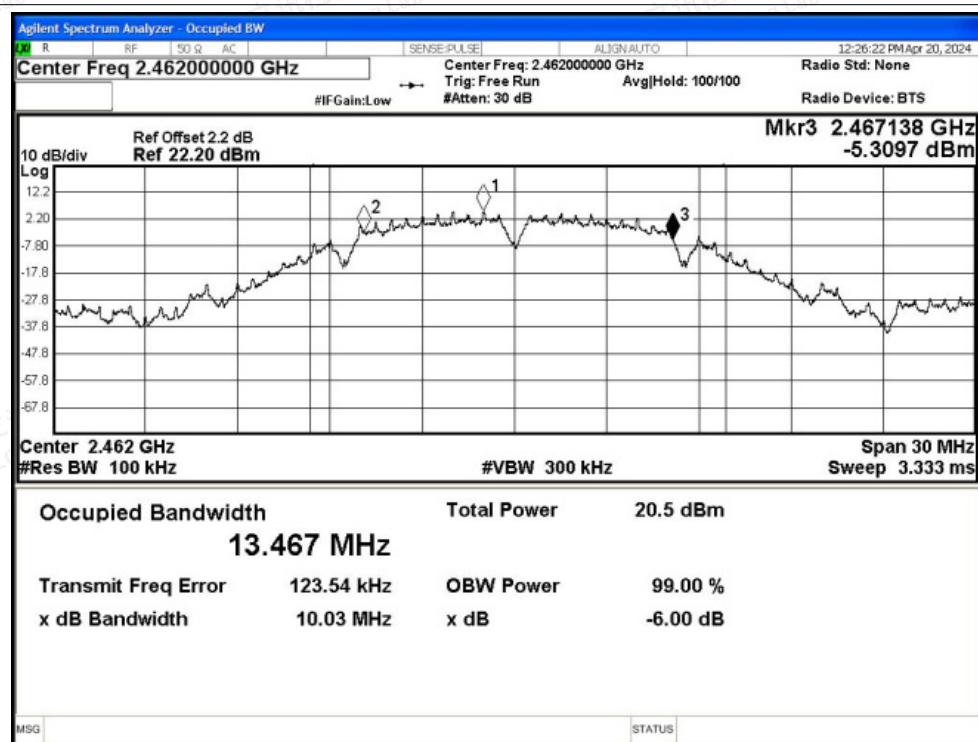
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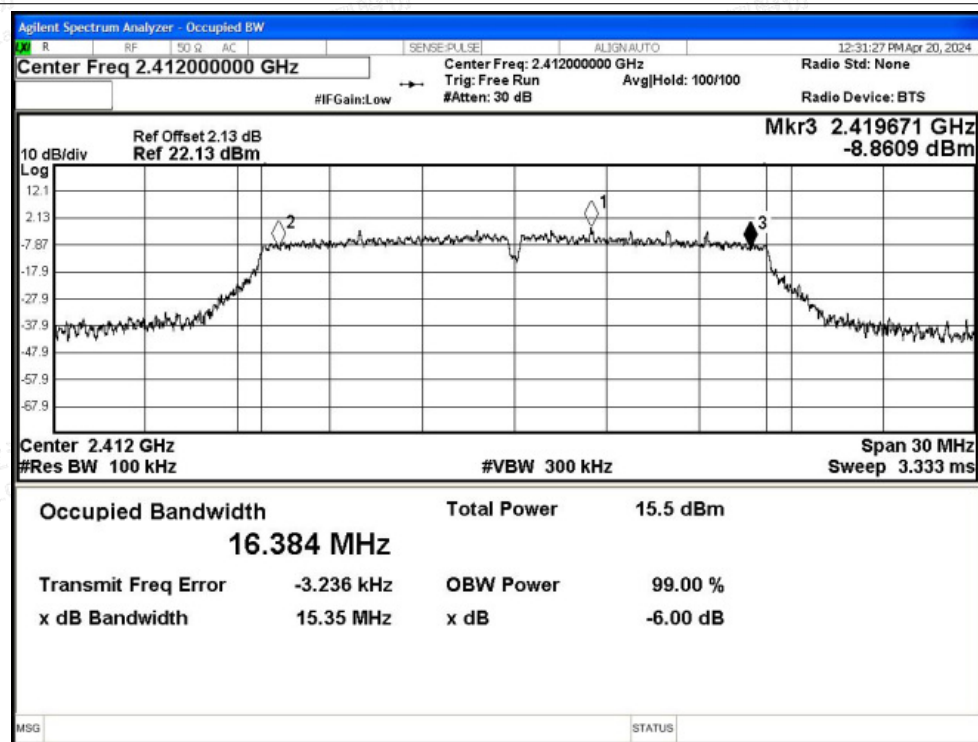
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## -6dB Bandwidth NVNT b 2462MHz Ant1

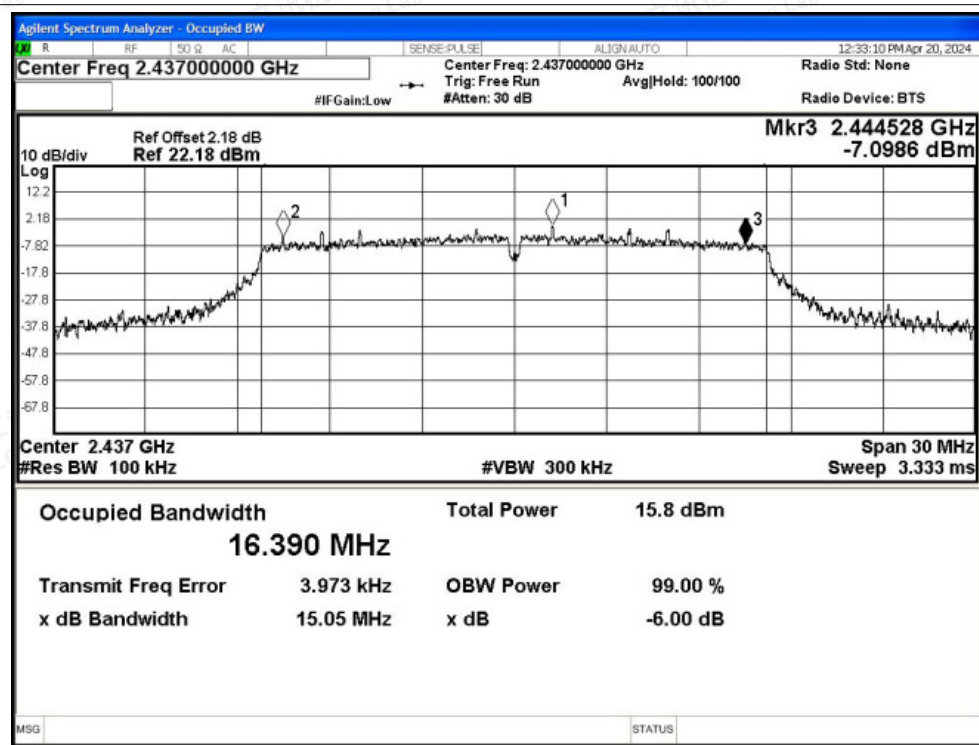


## -6dB Bandwidth NVNT g 2412MHz Ant1

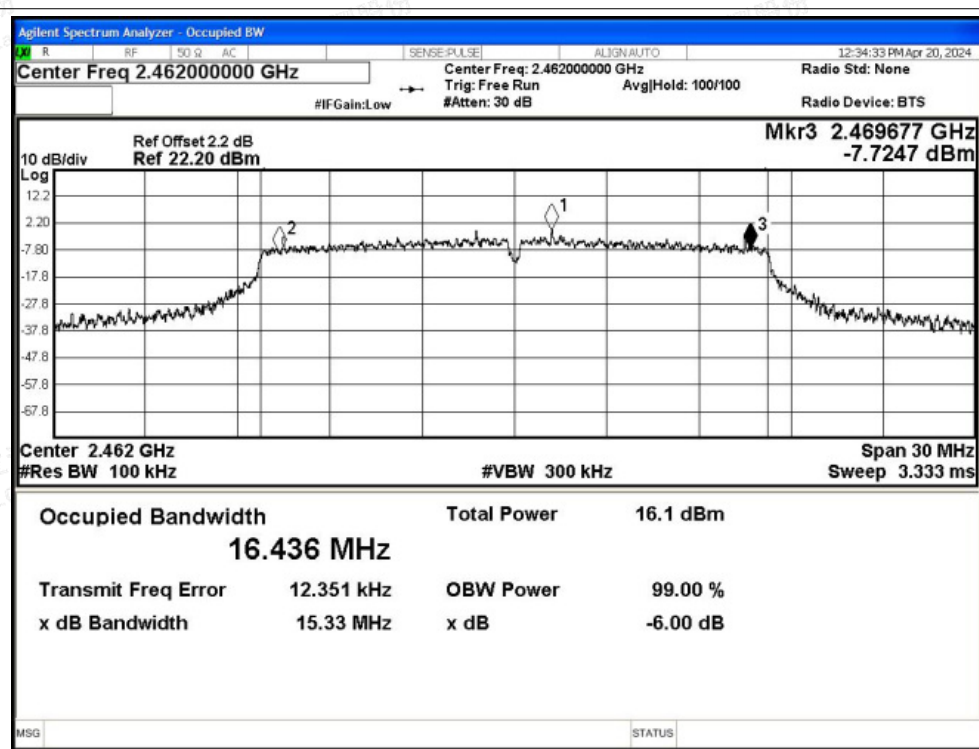




-6dB Bandwidth NVNT g 2437MHz Ant1



-6dB Bandwidth NVNT g 2462MHz Ant1



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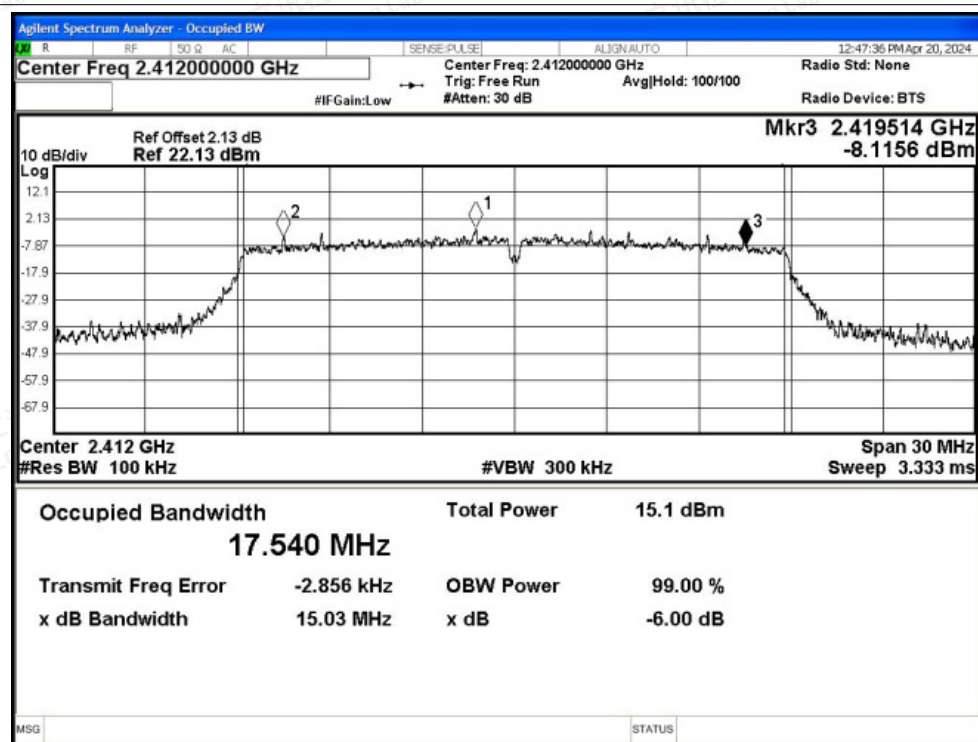
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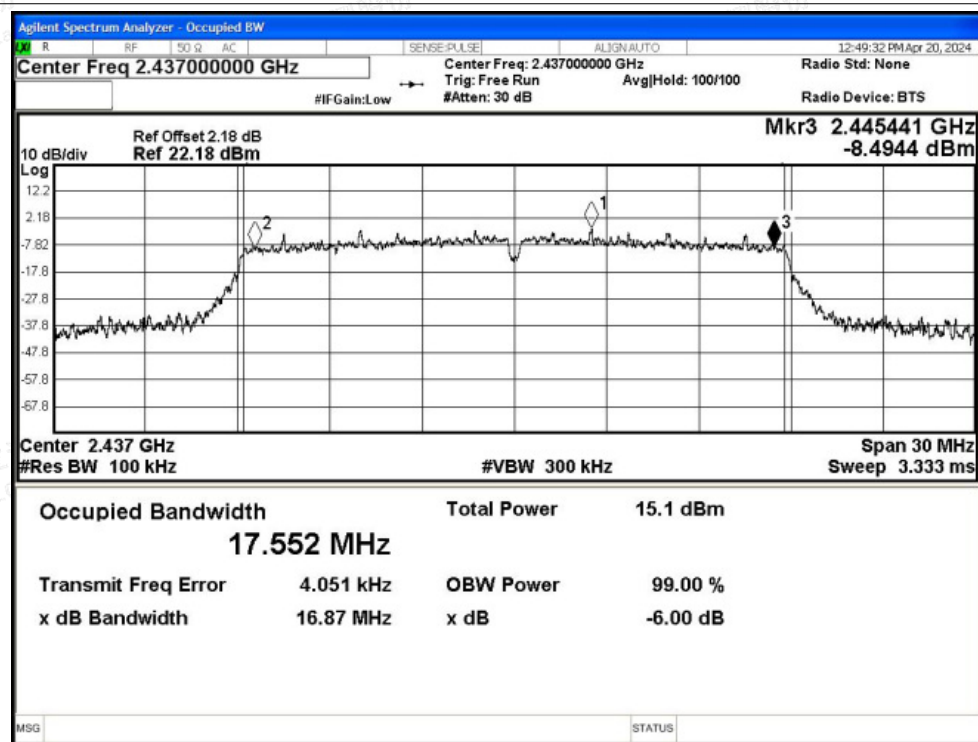
Scan code to check authenticity



-6dB Bandwidth NVNT n20 2412MHz Ant1

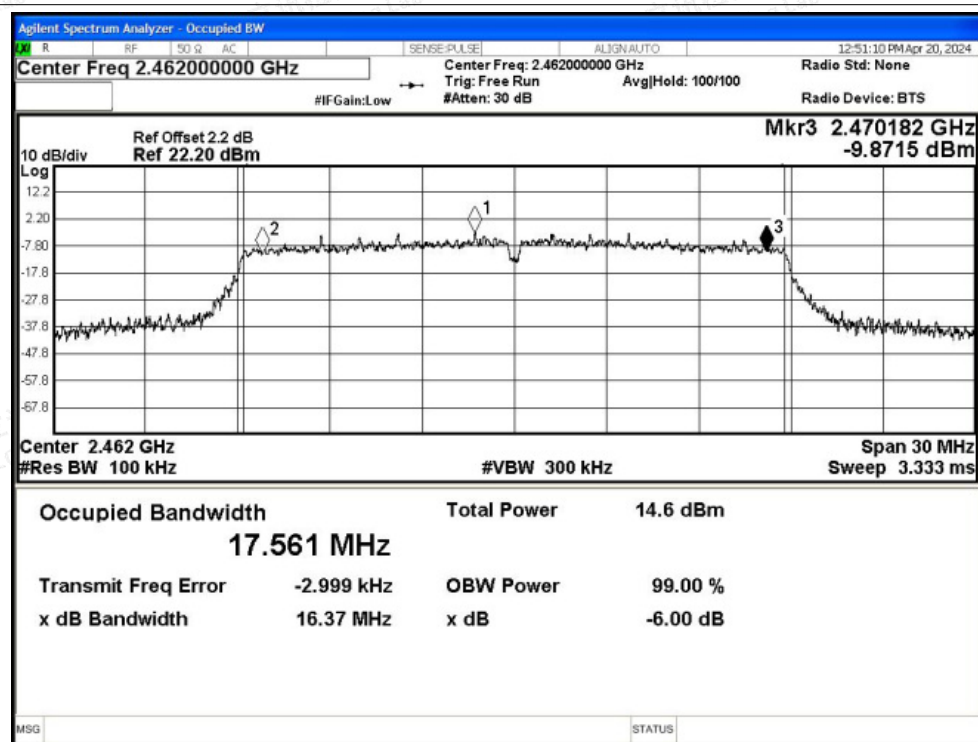


-6dB Bandwidth NVNT n20 2437MHz Ant1

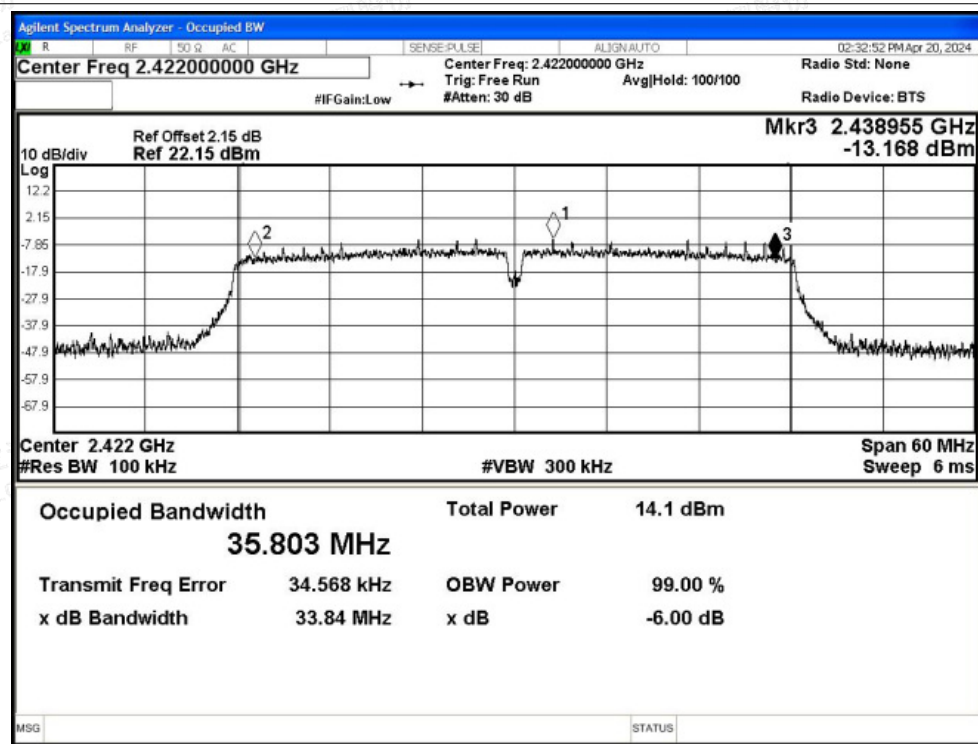




-6dB Bandwidth NVNT n20 2462MHz Ant1

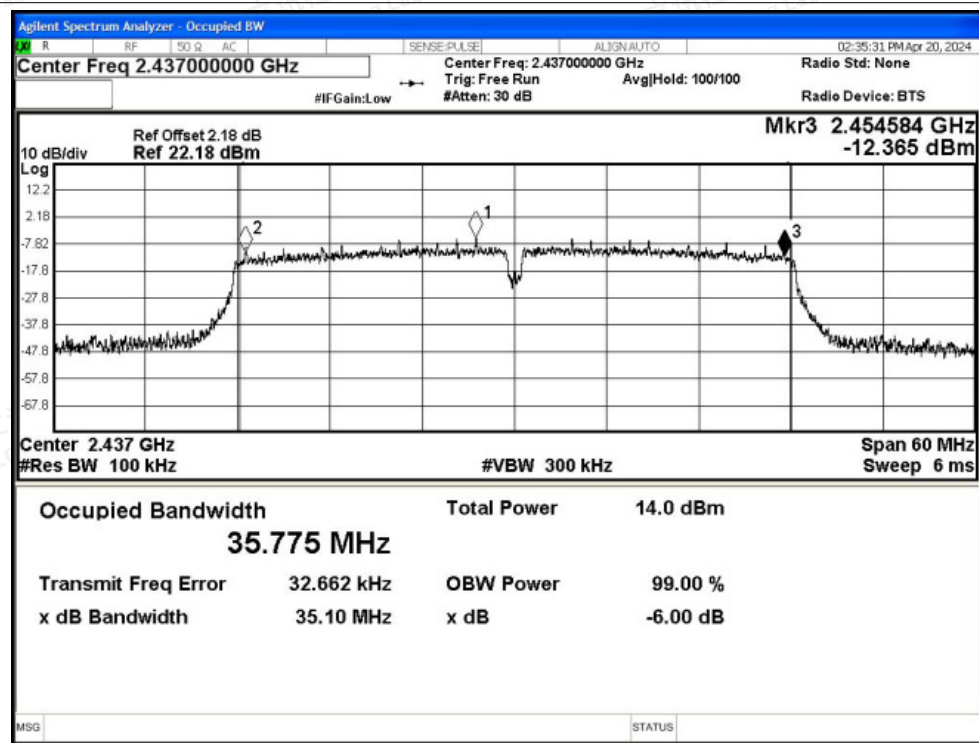


-6dB Bandwidth NVNT n40 2422MHz Ant1

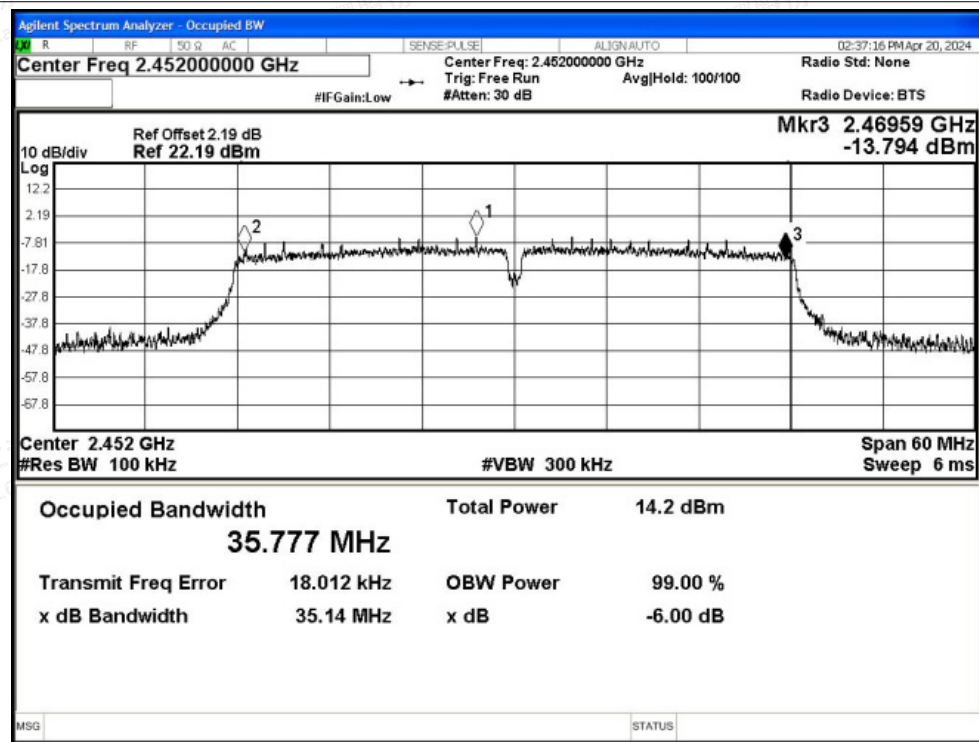




-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1



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## A.2 Maximum Peak Conducted Output Power

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | 8.82                  | 30          | Pass    |
| NVNT      | b    | 2437            | Ant1    | 8.39                  | 30          | Pass    |
| NVNT      | b    | 2462            | Ant1    | 8.46                  | 30          | Pass    |
| NVNT      | g    | 2412            | Ant1    | 7.87                  | 30          | Pass    |
| NVNT      | g    | 2437            | Ant1    | 7.68                  | 30          | Pass    |
| NVNT      | g    | 2462            | Ant1    | 8.02                  | 30          | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 7.36                  | 30          | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 7.16                  | 30          | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 6.81                  | 30          | Pass    |
| NVNT      | n40  | 2422            | Ant1    | 6.18                  | 30          | Pass    |
| NVNT      | n40  | 2437            | Ant1    | 6.09                  | 30          | Pass    |
| NVNT      | n40  | 2452            | Ant1    | 5.87                  | 30          | Pass    |





### A.3 Maximum Power Spectral Density Level

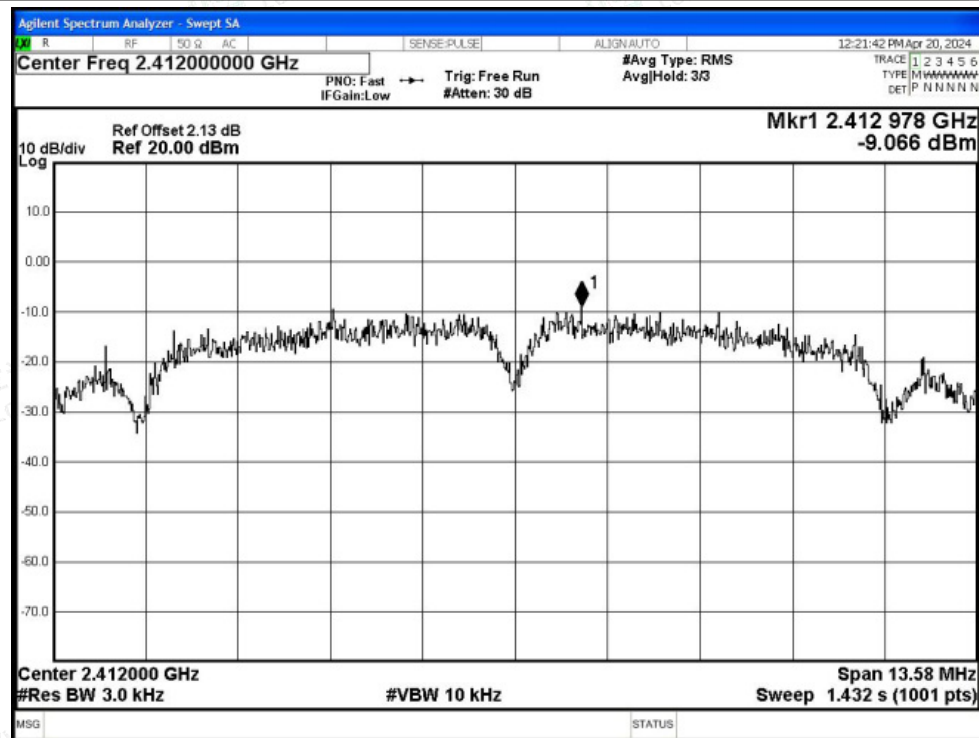
| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|-----------|------|-----------------|---------|--------------------------|------------------|---------|
| NVNT      | b    | 2412            | Ant1    | -9.07                    | 8                | Pass    |
| NVNT      | b    | 2437            | Ant1    | -6.6                     | 8                | Pass    |
| NVNT      | b    | 2462            | Ant1    | -8.71                    | 8                | Pass    |
| NVNT      | g    | 2412            | Ant1    | -15.3                    | 8                | Pass    |
| NVNT      | g    | 2437            | Ant1    | -15.33                   | 8                | Pass    |
| NVNT      | g    | 2462            | Ant1    | -14.37                   | 8                | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -14.96                   | 8                | Pass    |
| NVNT      | n20  | 2437            | Ant1    | -15.32                   | 8                | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -16.02                   | 8                | Pass    |
| NVNT      | n40  | 2422            | Ant1    | -20.12                   | 8                | Pass    |
| NVNT      | n40  | 2437            | Ant1    | -19.75                   | 8                | Pass    |
| NVNT      | n40  | 2452            | Ant1    | -20.19                   | 8                | Pass    |



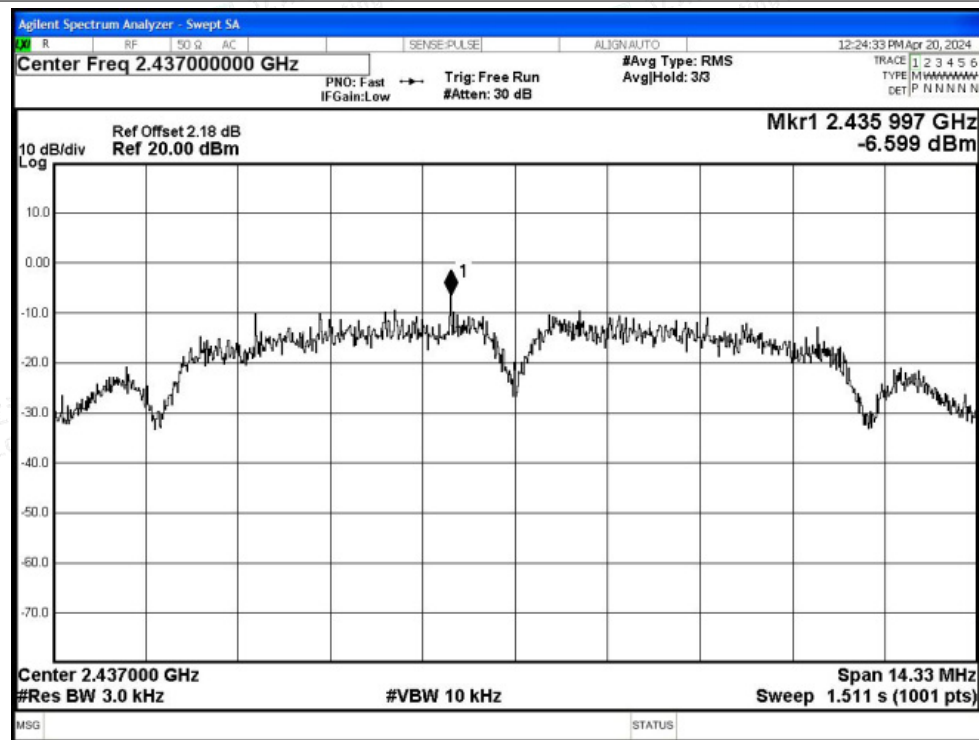


## Test Graphs

PSD NVNT b 2412MHz Ant1

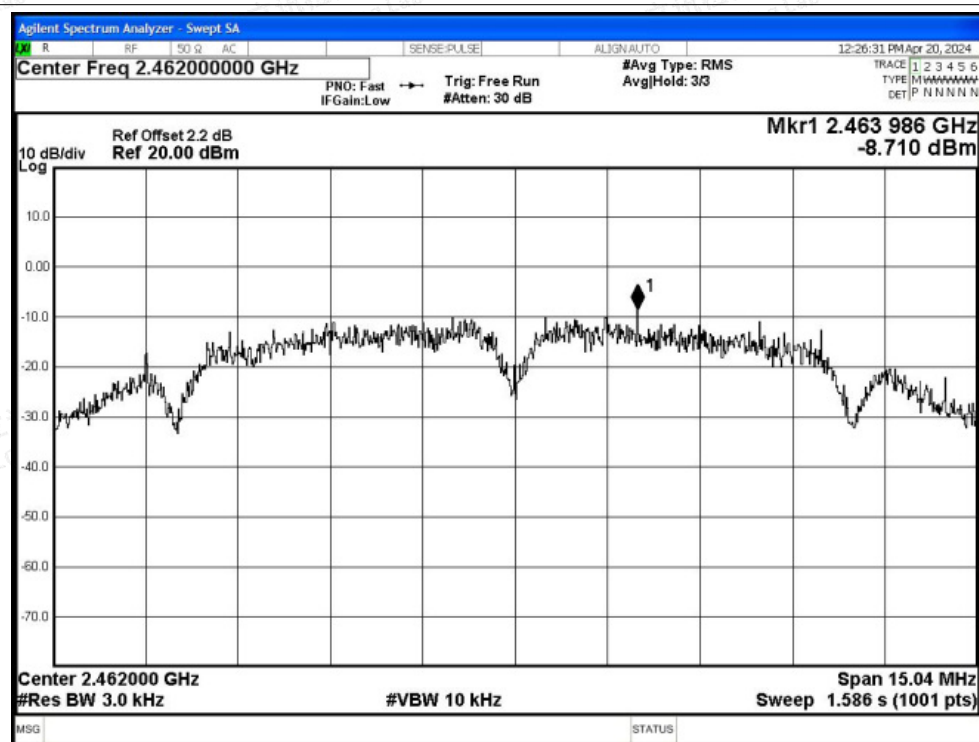


PSD NVNT b 2437MHz Ant1

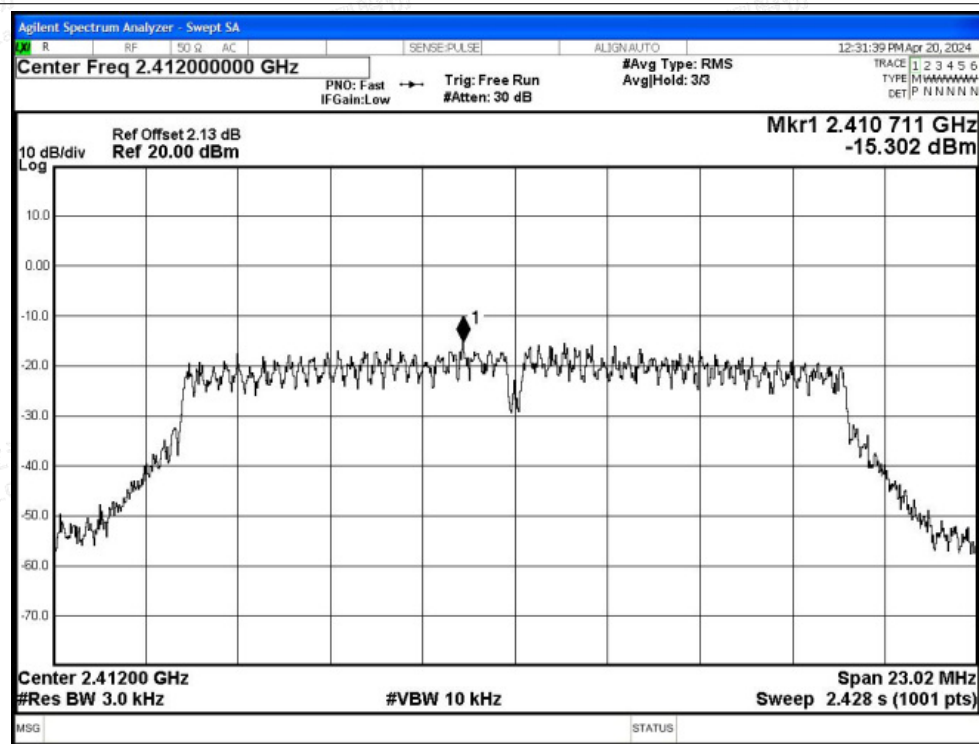




PSD NVNT b 2462MHz Ant1

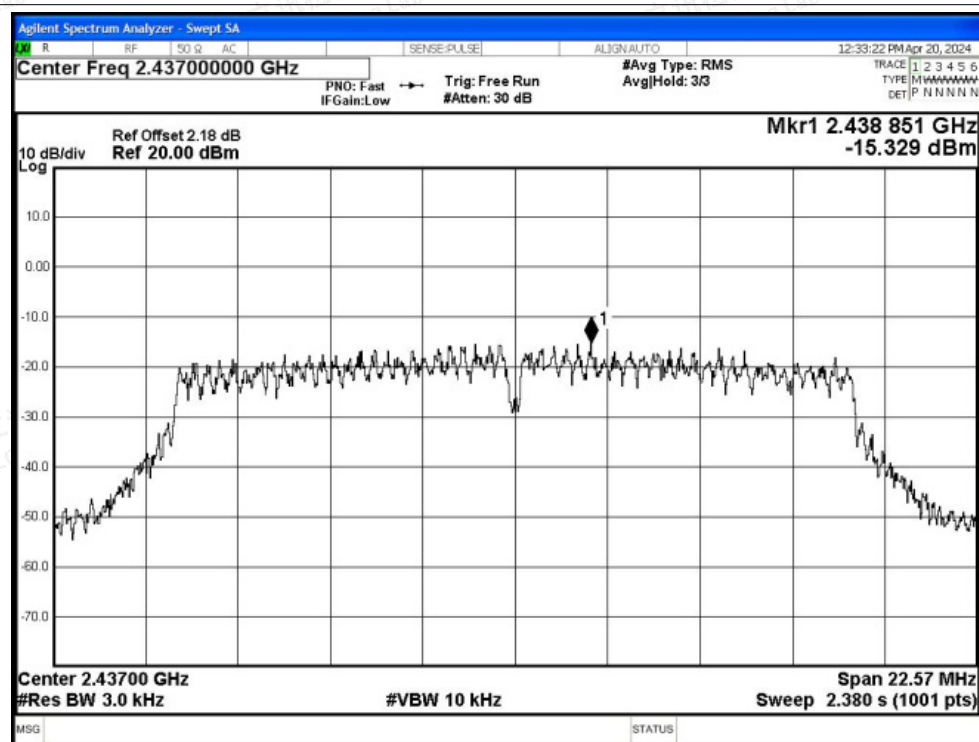


PSD NVNT g 2412MHz Ant1

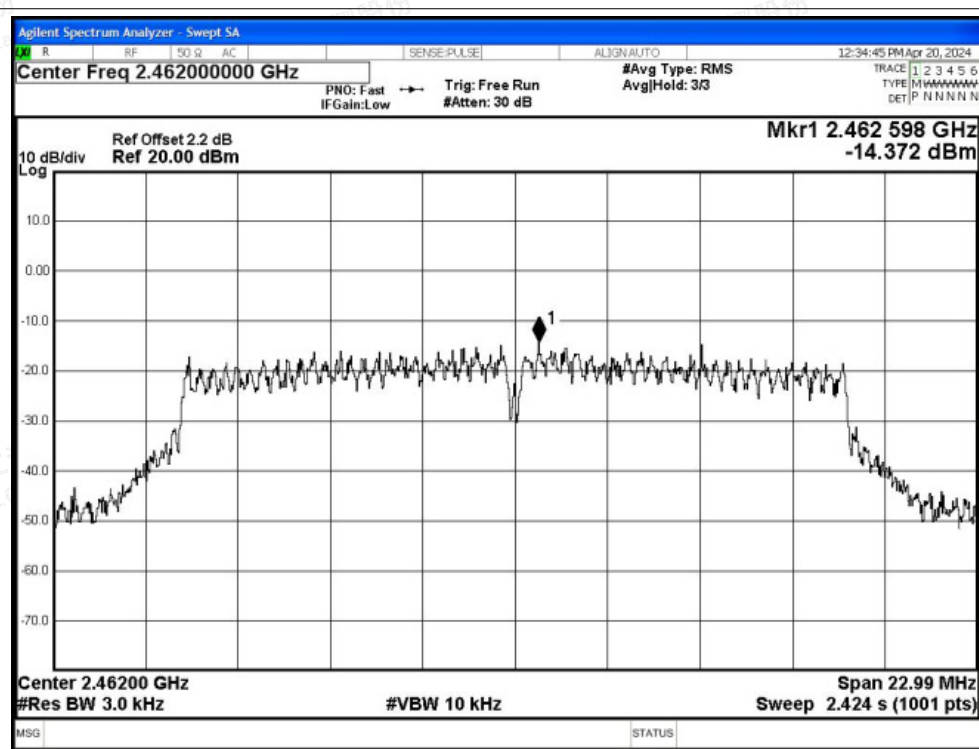




PSD NVNT g 2437MHz Ant1



PSD NVNT g 2462MHz Ant1



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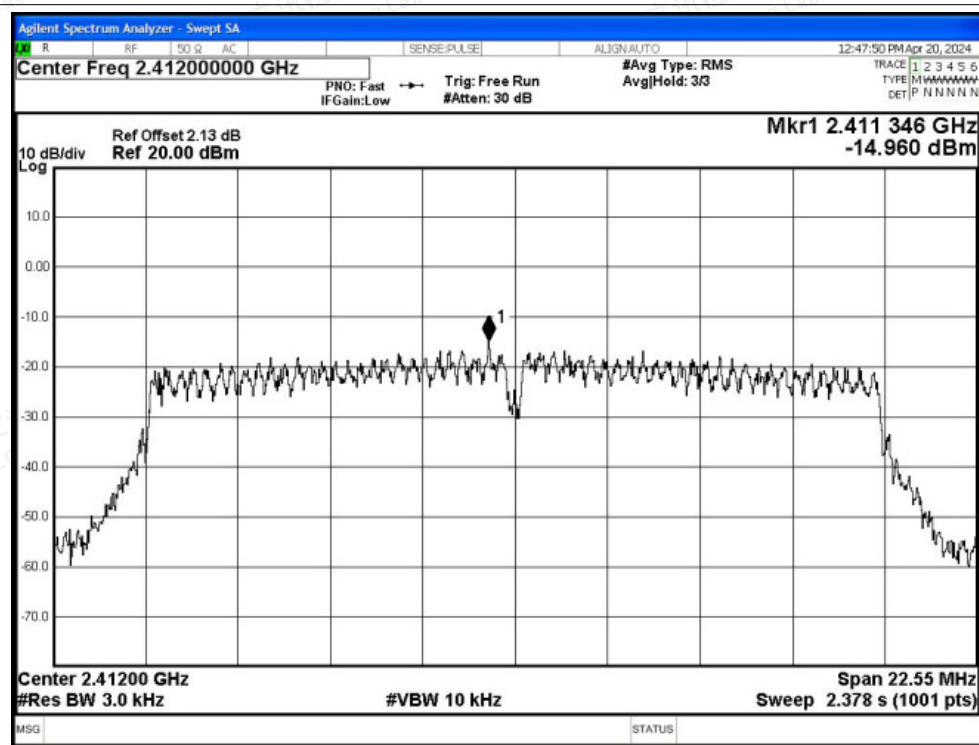
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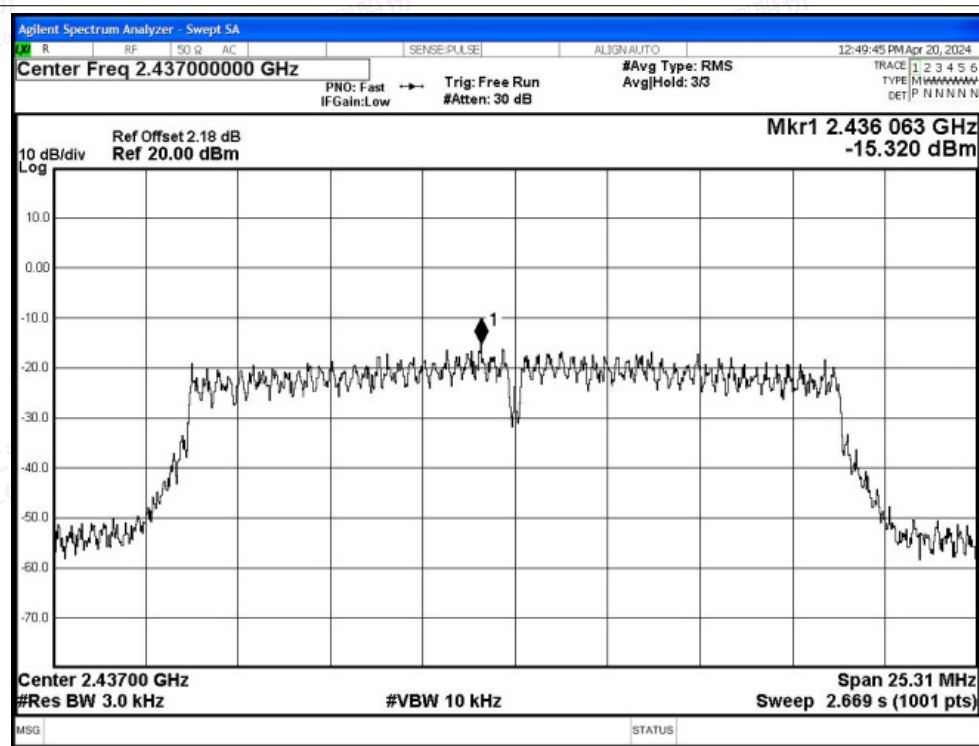
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PSD NVNT n20 2412MHz Ant1



PSD NVNT n20 2437MHz Ant1



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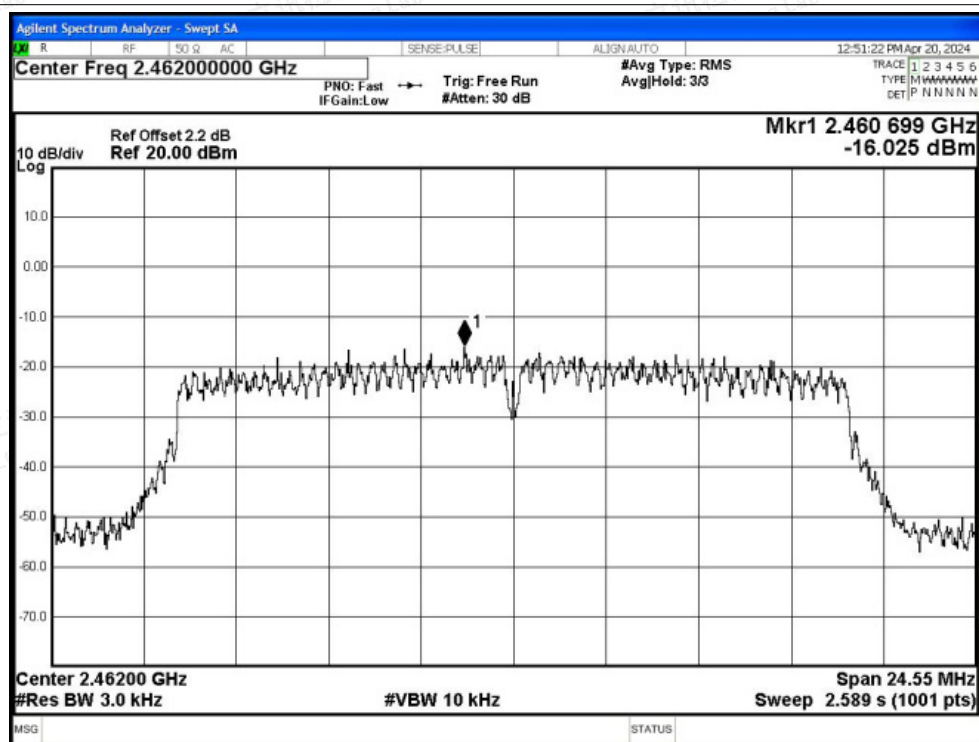
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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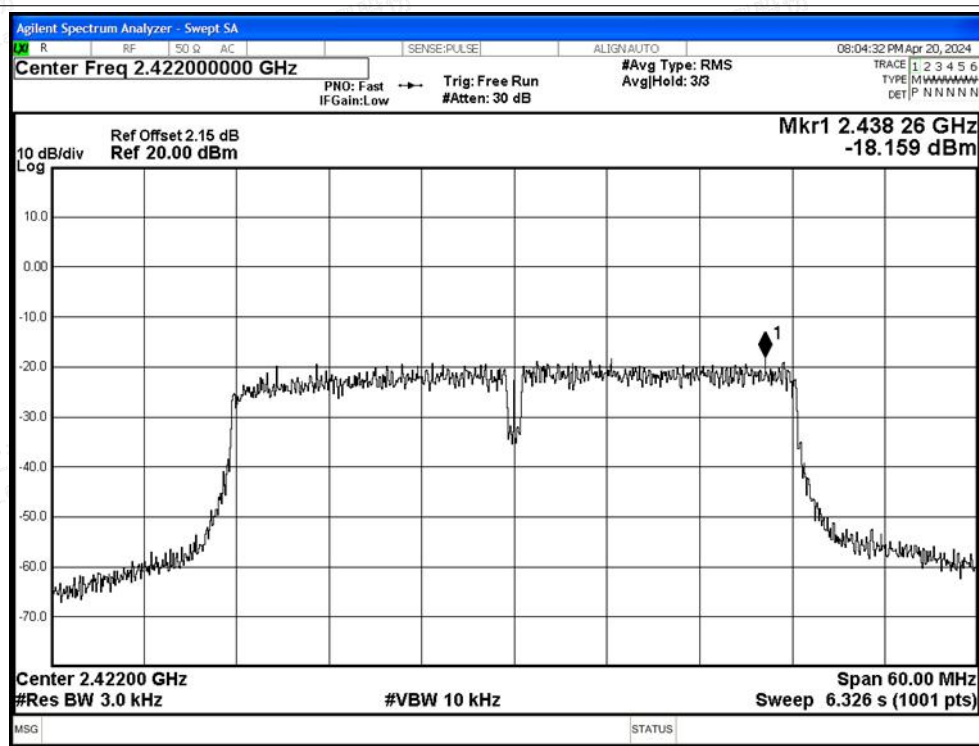
Scan code to check authenticity



PSD NVNT n20 2462MHz Ant1

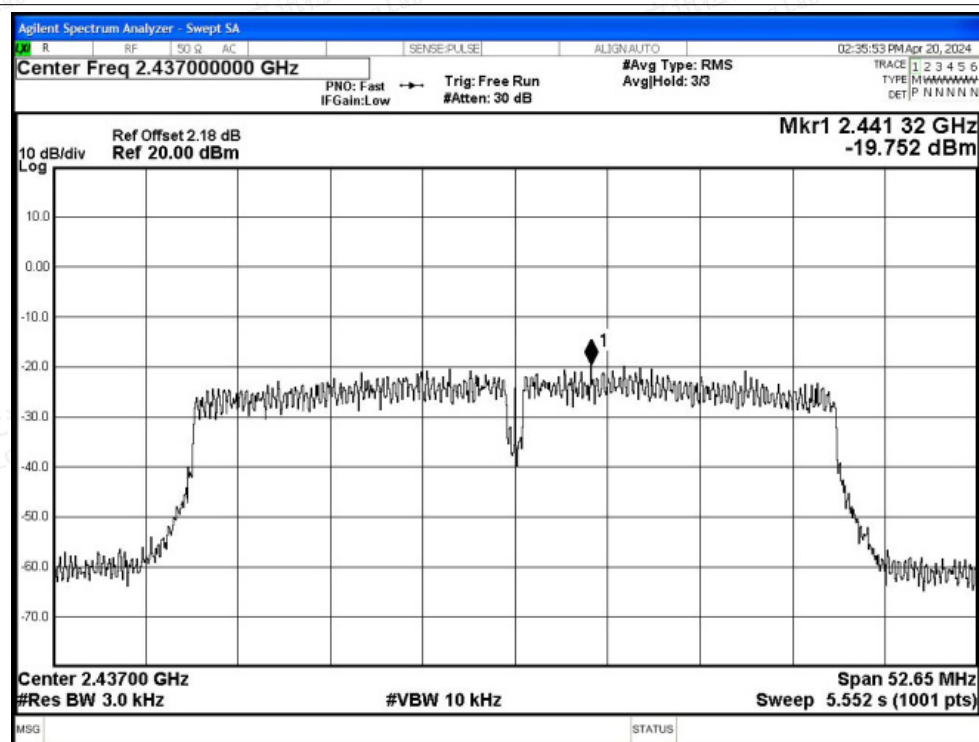


PSD NVNT n40 2422MHz Ant1

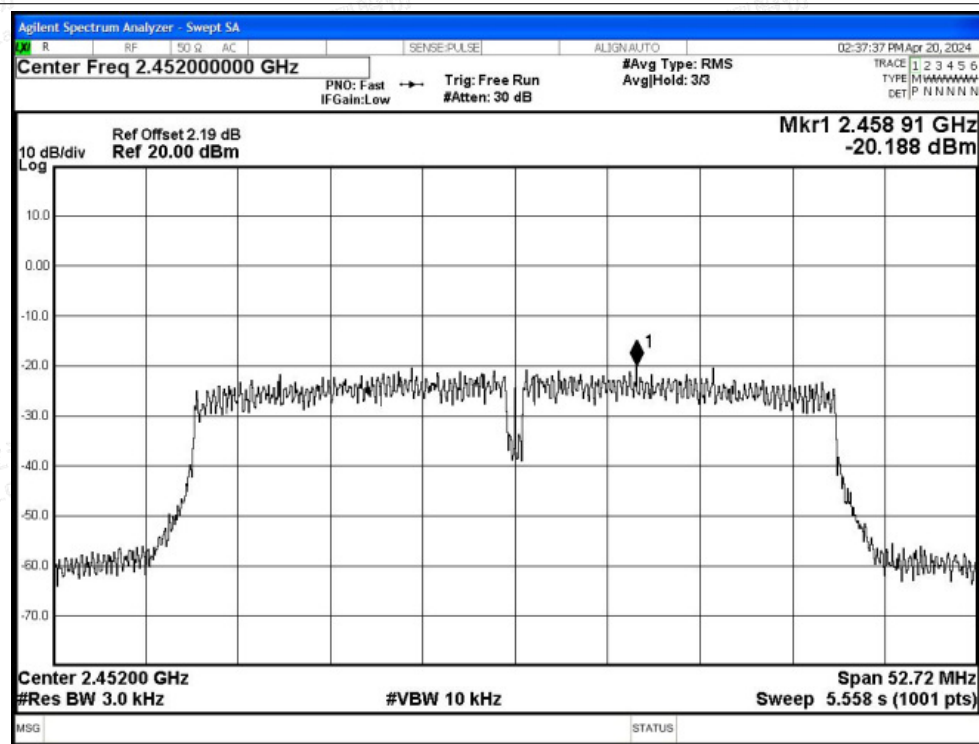




PSD NVNT n40 2437MHz Ant1



PSD NVNT n40 2452MHz Ant1



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## A.4 Band Edge

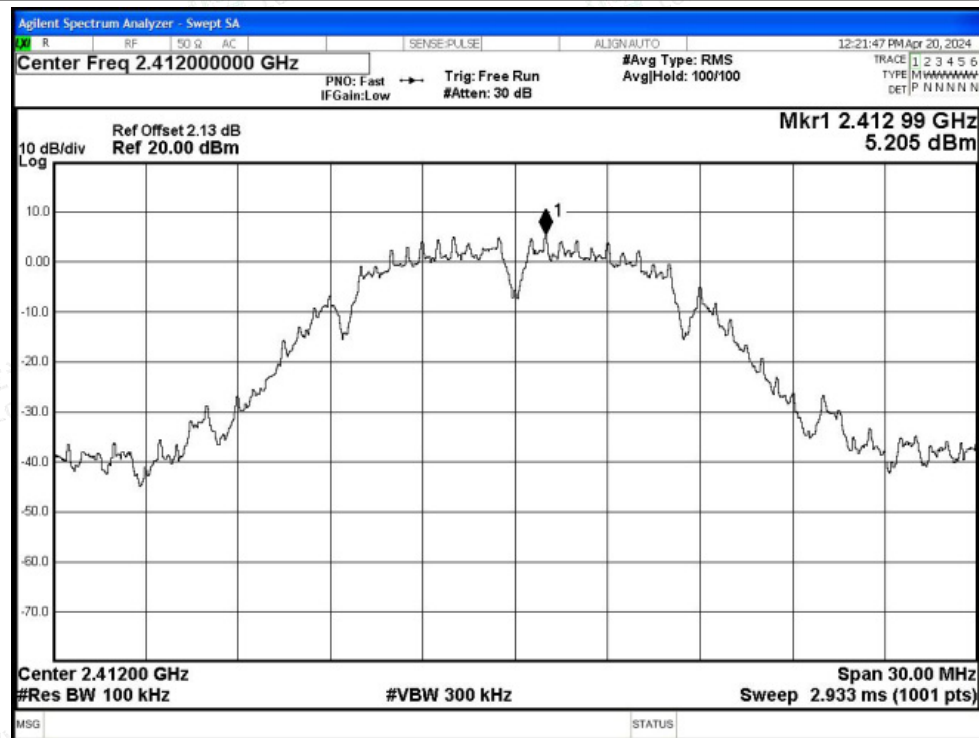
| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | -41.09          | -20         | Pass    |
| NVNT      | b    | 2462            | Ant1    | -49.23          | -20         | Pass    |
| NVNT      | g    | 2412            | Ant1    | -31.69          | -20         | Pass    |
| NVNT      | g    | 2462            | Ant1    | -43.36          | -20         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -35.04          | -20         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -44.14          | -20         | Pass    |
| NVNT      | n40  | 2422            | Ant1    | -34.63          | -20         | Pass    |
| NVNT      | n40  | 2452            | Ant1    | -34.68          | -20         | Pass    |





## Test Graphs

## Band Edge NVNT b 2412MHz Ant1 Ref



## Band Edge NVNT b 2412MHz Ant1 Emission



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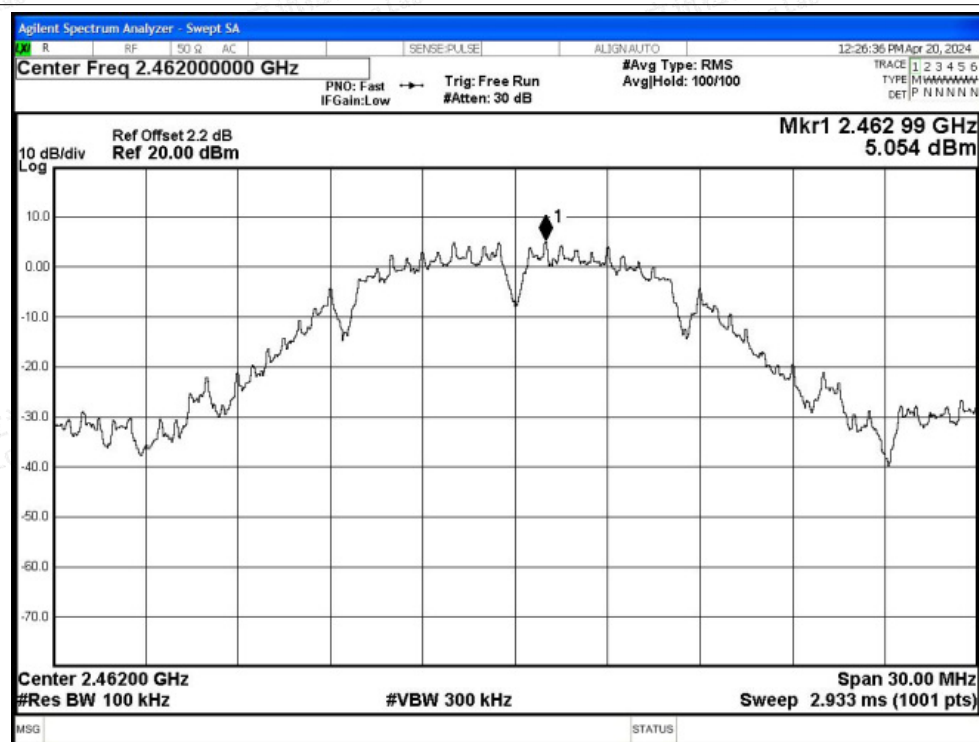
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## Band Edge NVNT b 2462MHz Ant1 Ref



## Band Edge NVNT b 2462MHz Ant1 Emission



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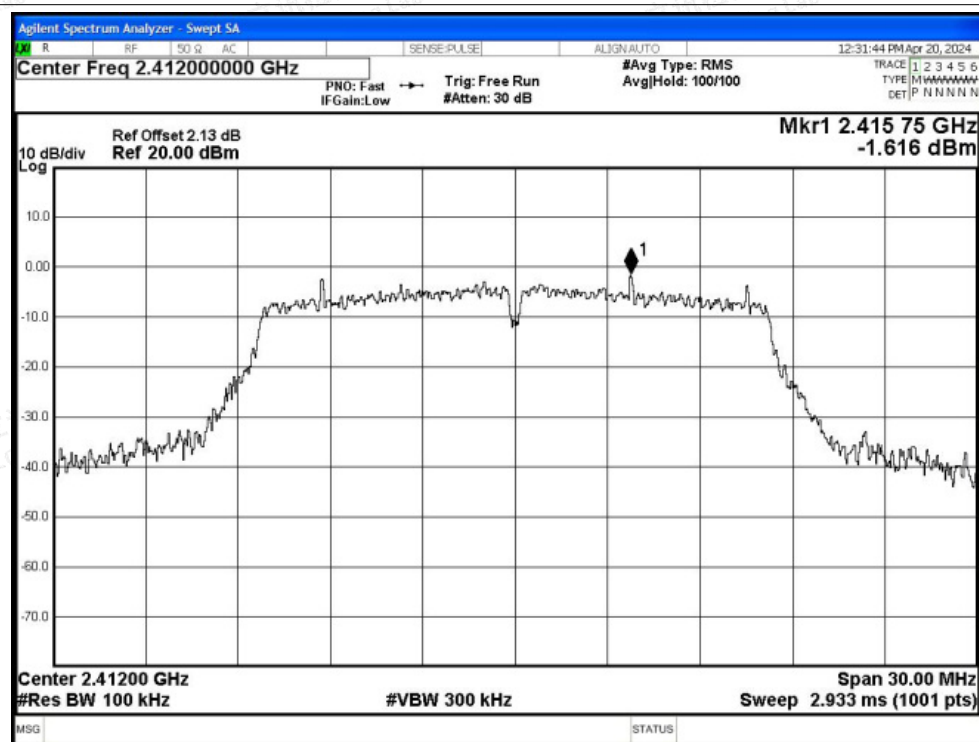
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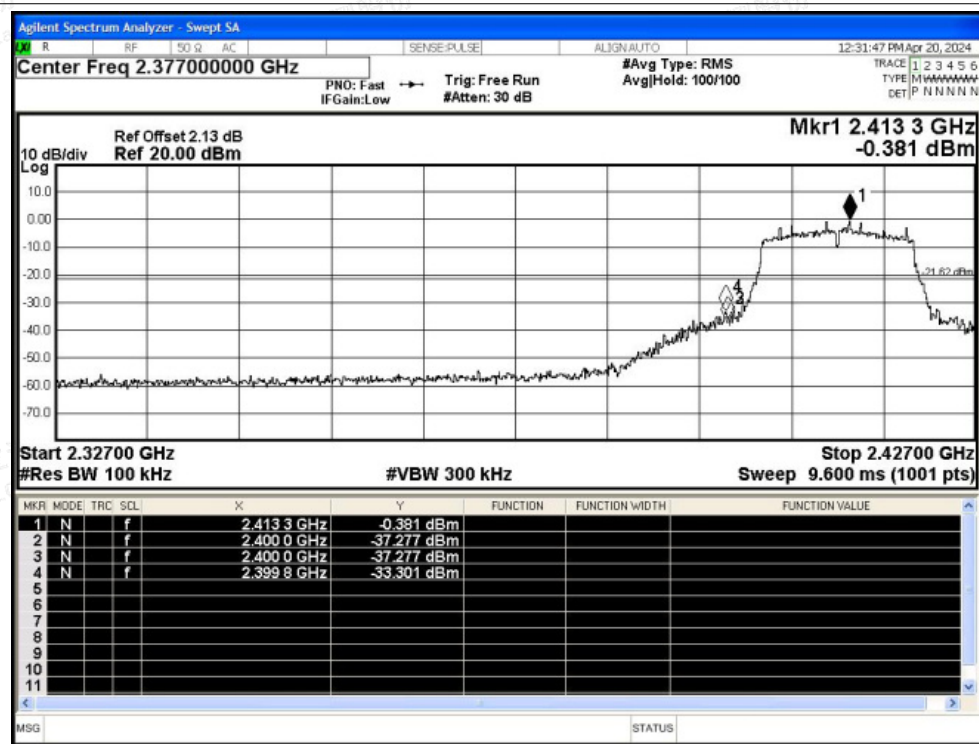
Scan code to check authenticity



## Band Edge NVNT g 2412MHz Ant1 Ref



## Band Edge NVNT g 2412MHz Ant1 Emission



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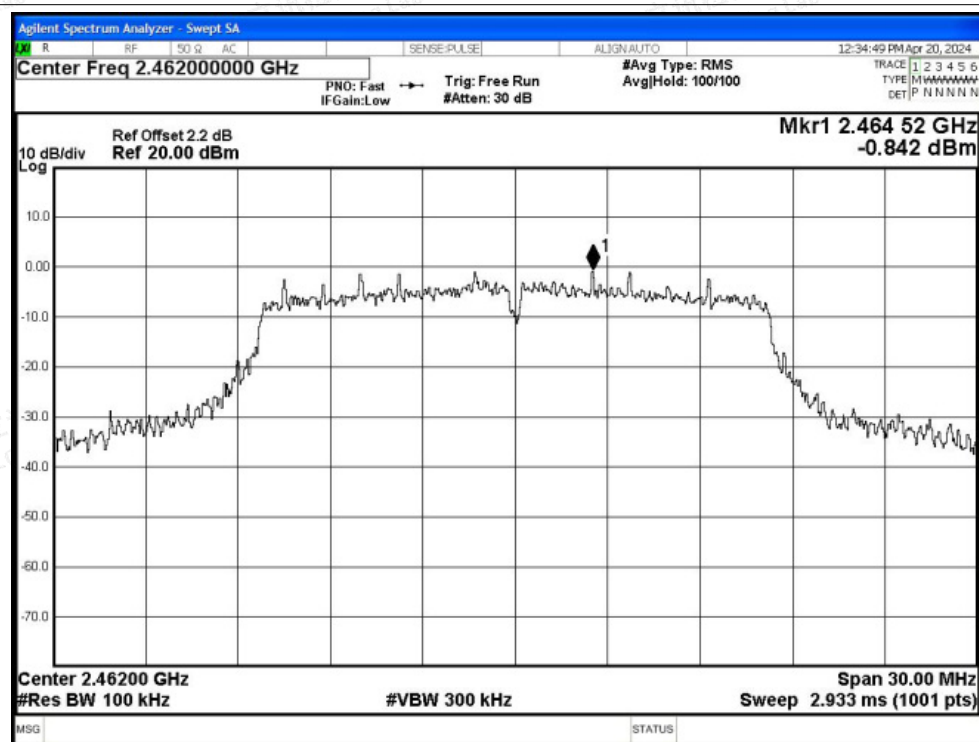
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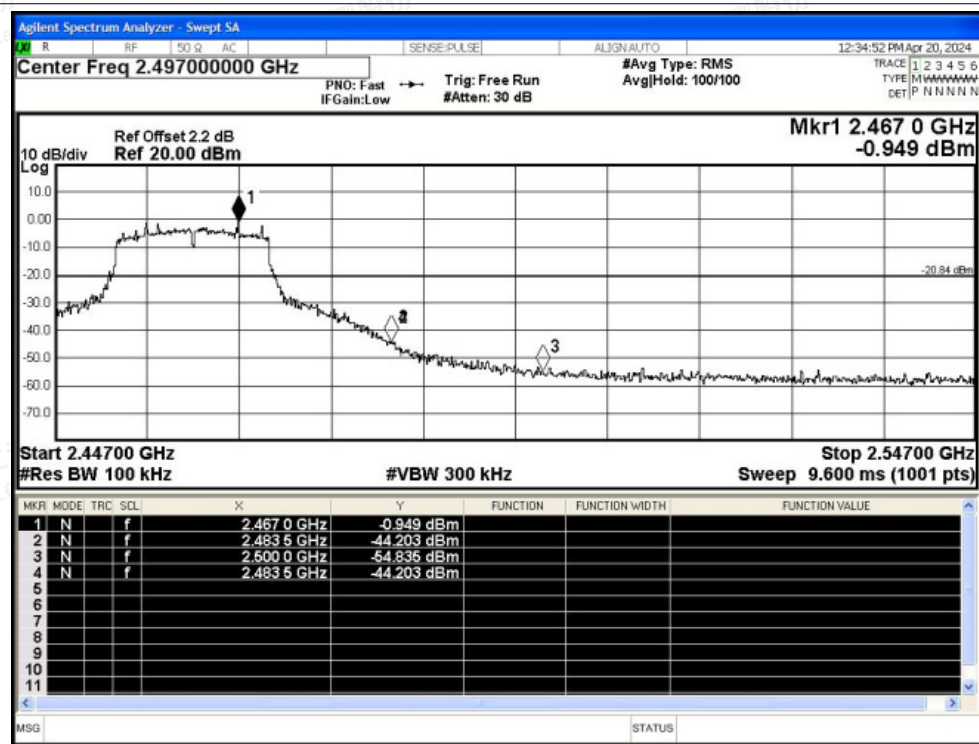
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## Band Edge NVNT g 2462MHz Ant1 Ref

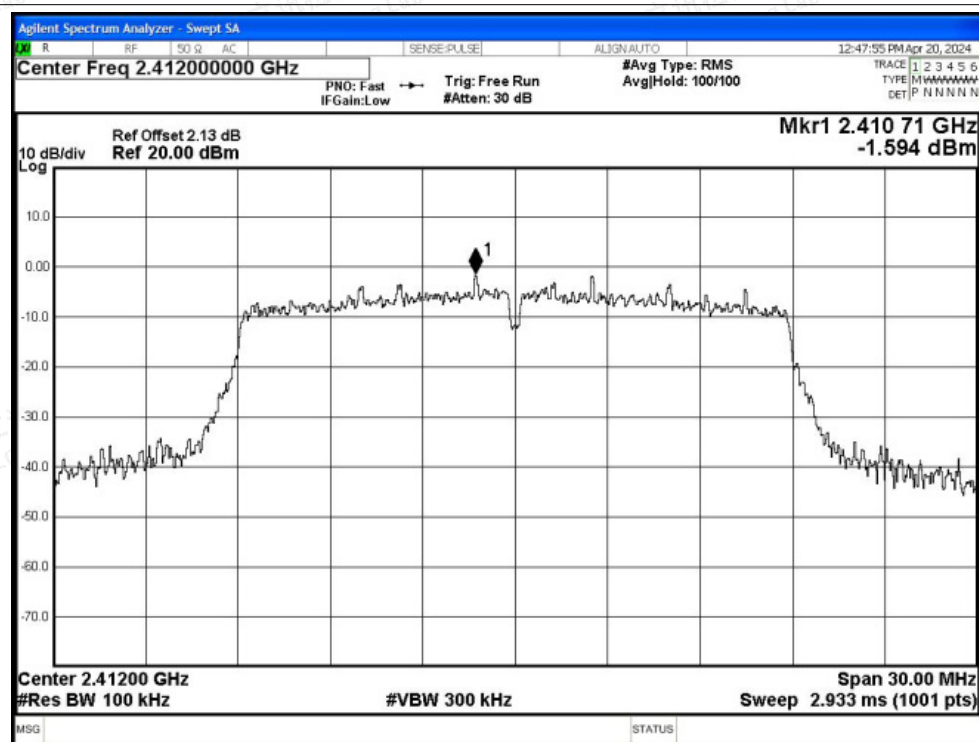


## Band Edge NVNT g 2462MHz Ant1 Emission

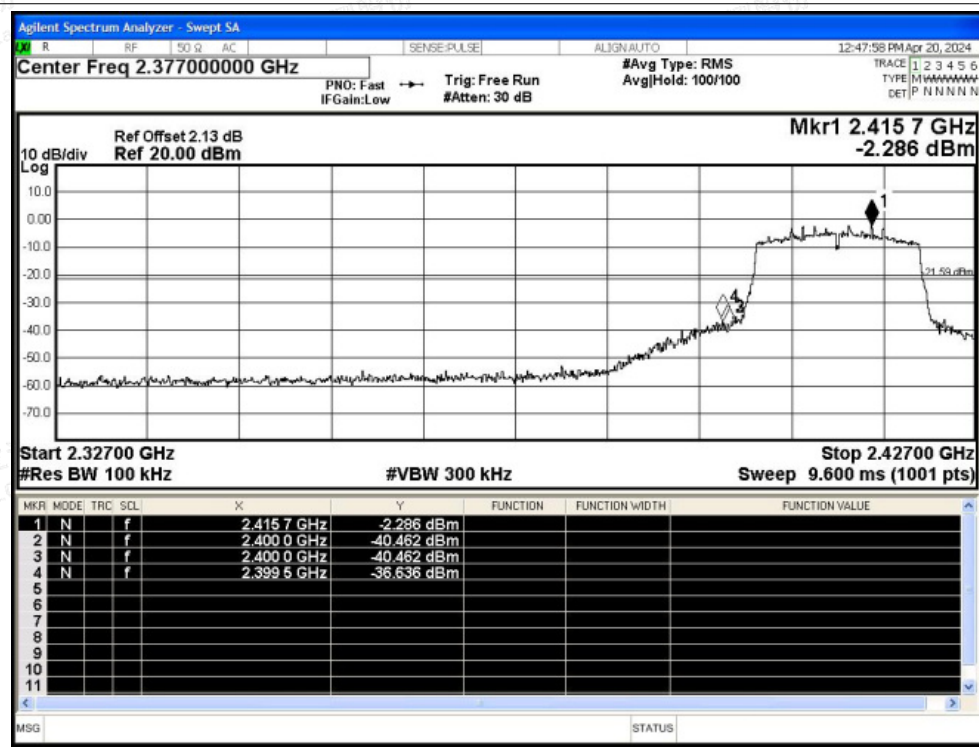




## Band Edge NVNT n20 2412MHz Ant1 Ref



## Band Edge NVNT n20 2412MHz Ant1 Emission



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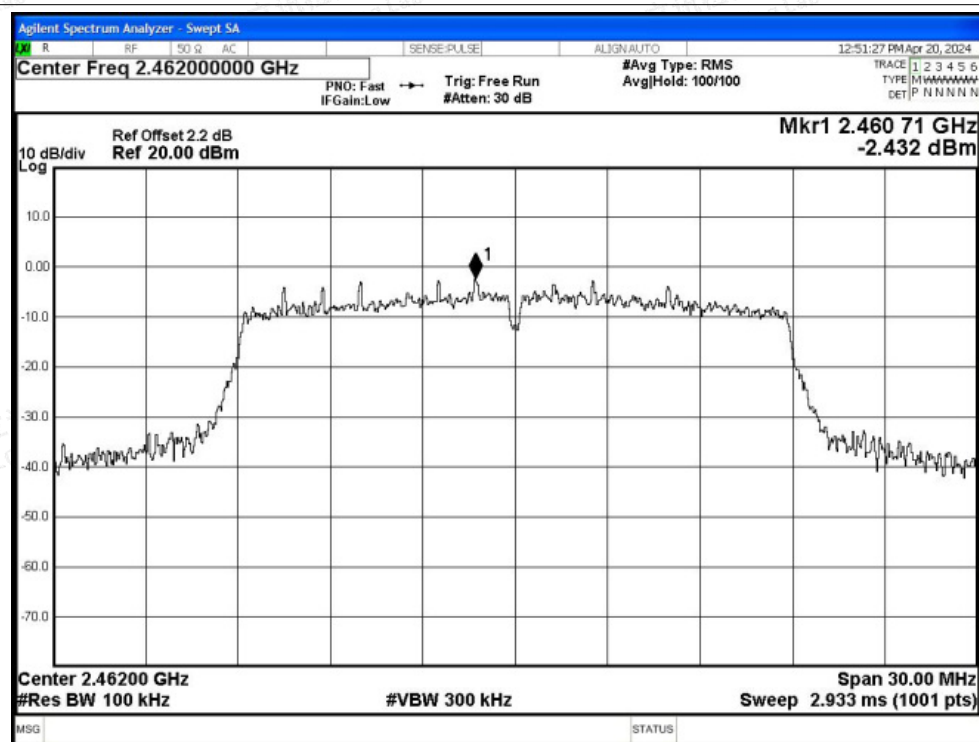
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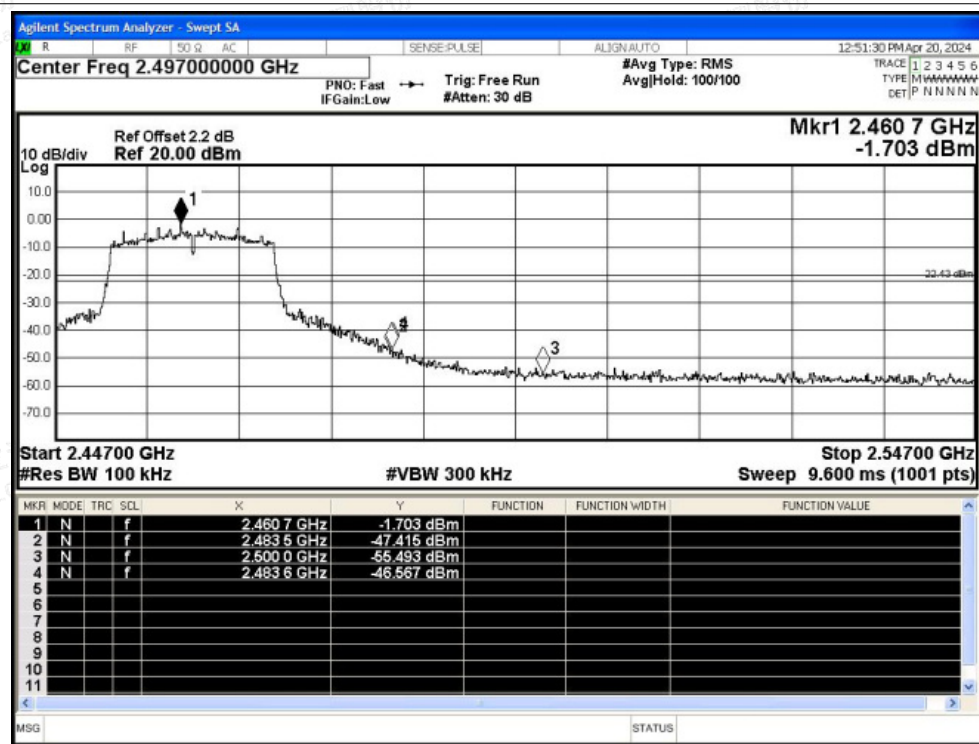
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## Band Edge NVNT n20 2462MHz Ant1 Ref



## Band Edge NVNT n20 2462MHz Ant1 Emission



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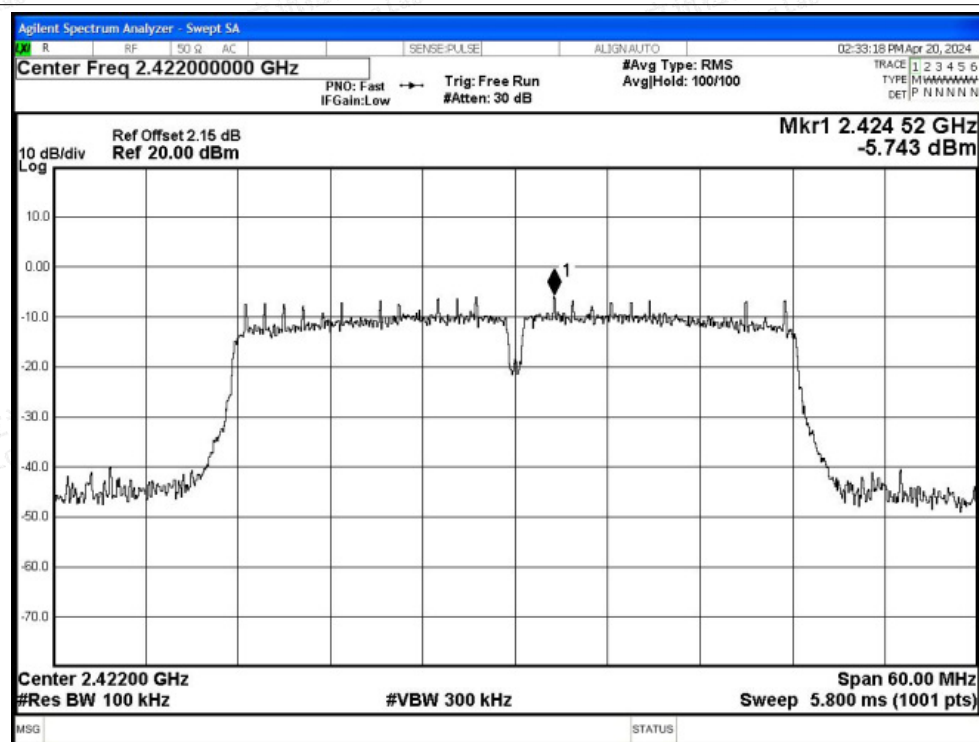
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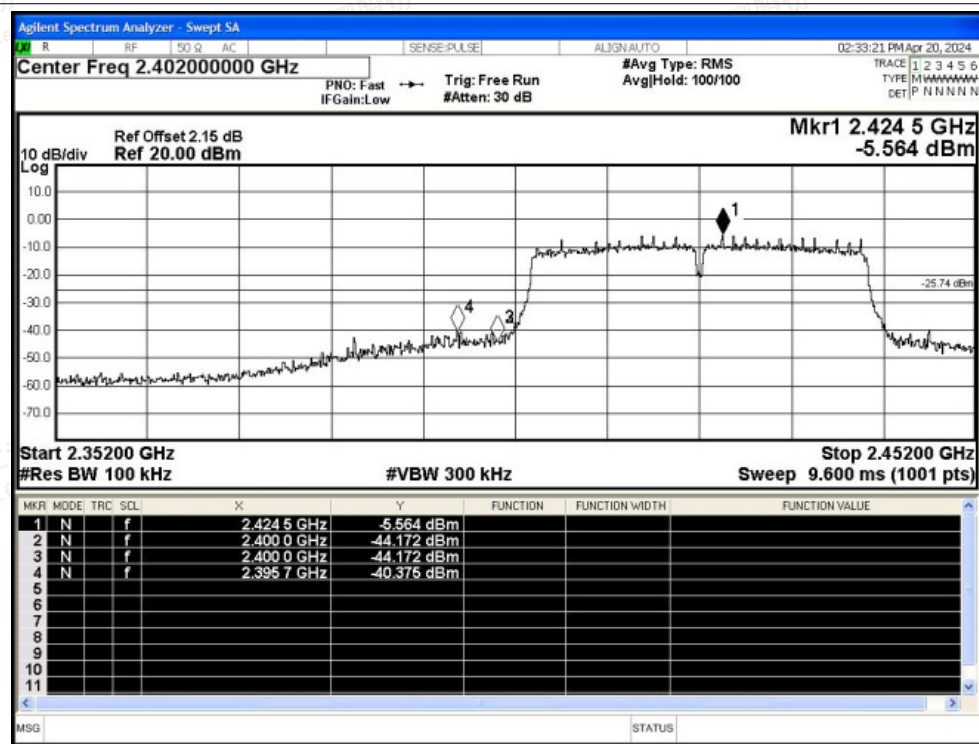
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## Band Edge NVNT n40 2422MHz Ant1 Ref



## Band Edge NVNT n40 2422MHz Ant1 Emission



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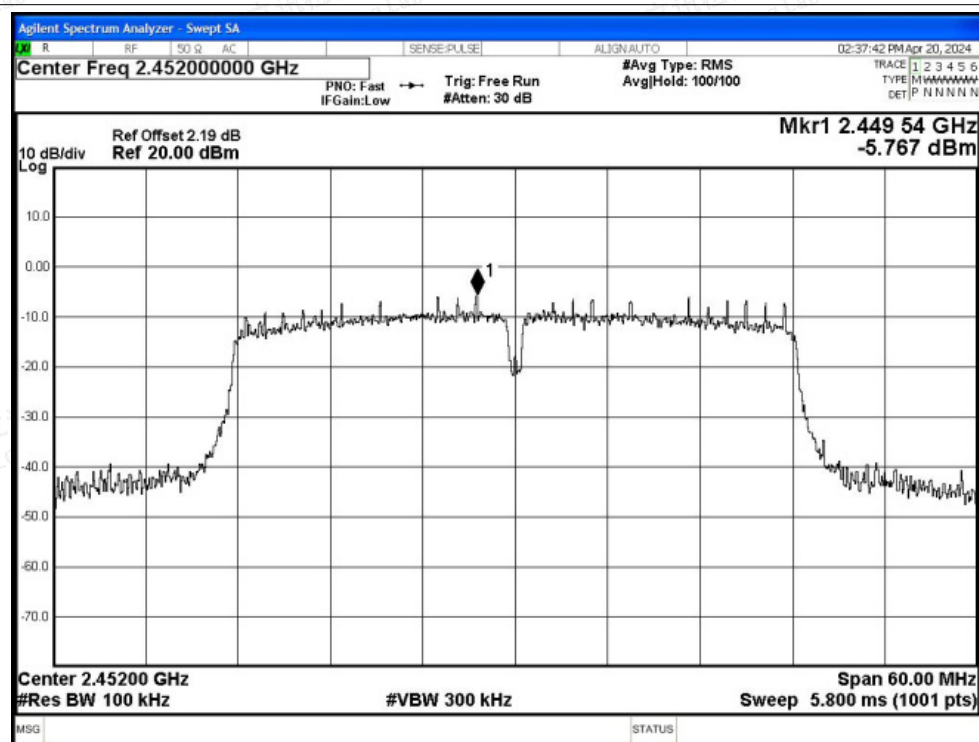
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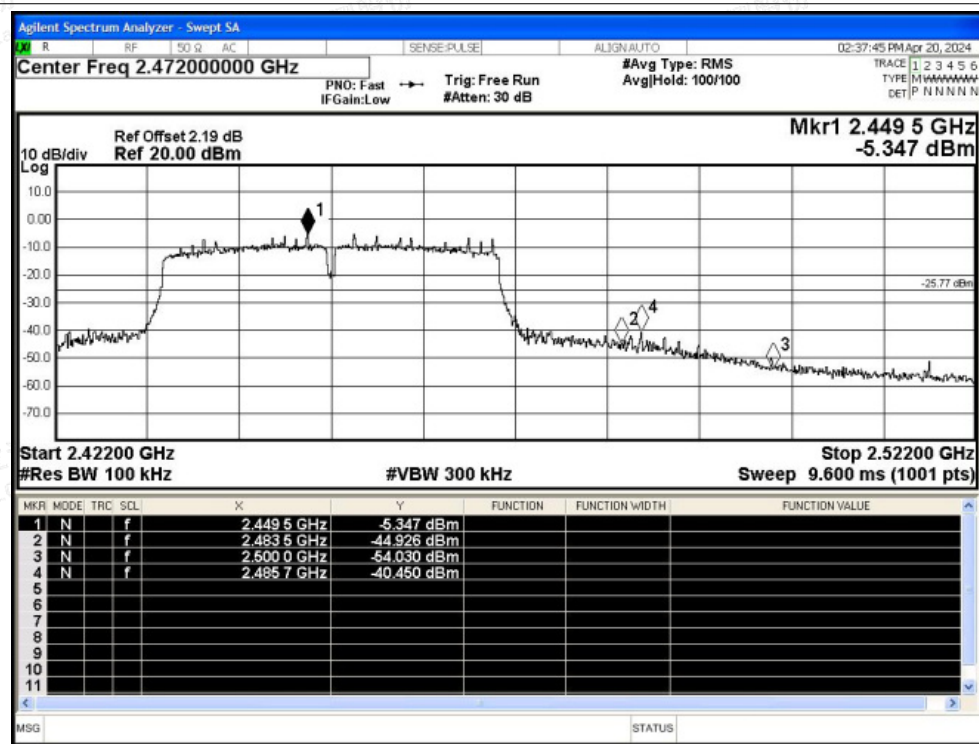
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## Band Edge NVNT n40 2452MHz Ant1 Ref



## Band Edge NVNT n40 2452MHz Ant1 Emission



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## A.5 Conducted RF Spurious Emission

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | -52.01          | -20         | Pass    |
| NVNT      | b    | 2437            | Ant1    | -51.51          | -20         | Pass    |
| NVNT      | b    | 2462            | Ant1    | -50.75          | -20         | Pass    |
| NVNT      | g    | 2412            | Ant1    | -45.64          | -20         | Pass    |
| NVNT      | g    | 2437            | Ant1    | -46.88          | -20         | Pass    |
| NVNT      | g    | 2462            | Ant1    | -45.2           | -20         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -42.21          | -20         | Pass    |
| NVNT      | n20  | 2437            | Ant1    | -45.09          | -20         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -44.96          | -20         | Pass    |
| NVNT      | n40  | 2422            | Ant1    | -40.05          | -20         | Pass    |
| NVNT      | n40  | 2437            | Ant1    | -41.3           | -20         | Pass    |
| NVNT      | n40  | 2452            | Ant1    | -39.3           | -20         | Pass    |

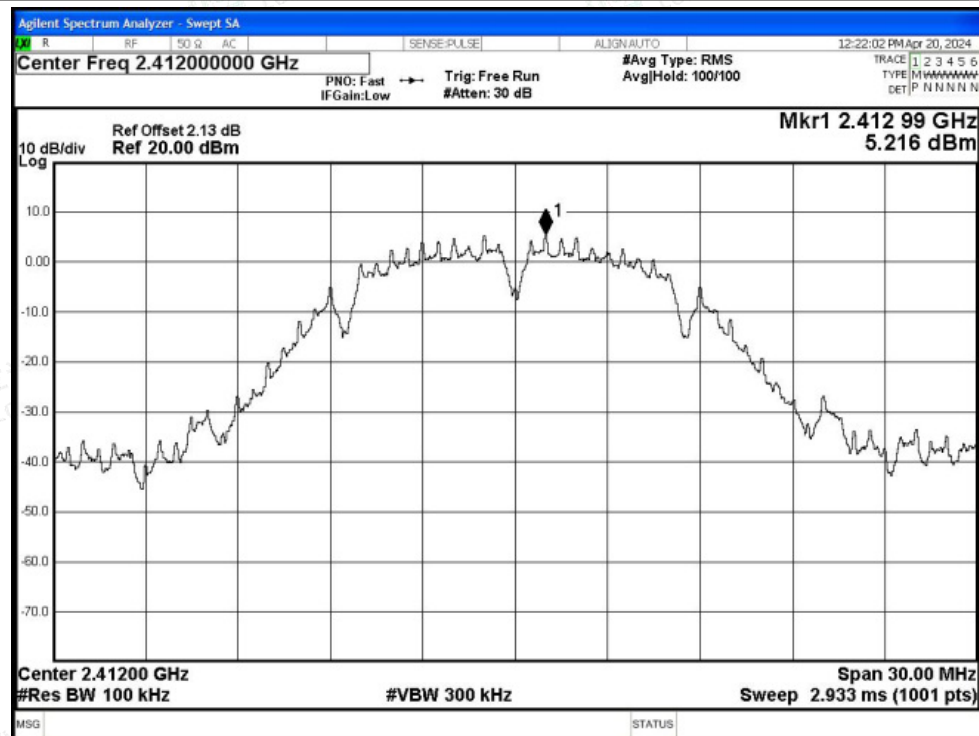


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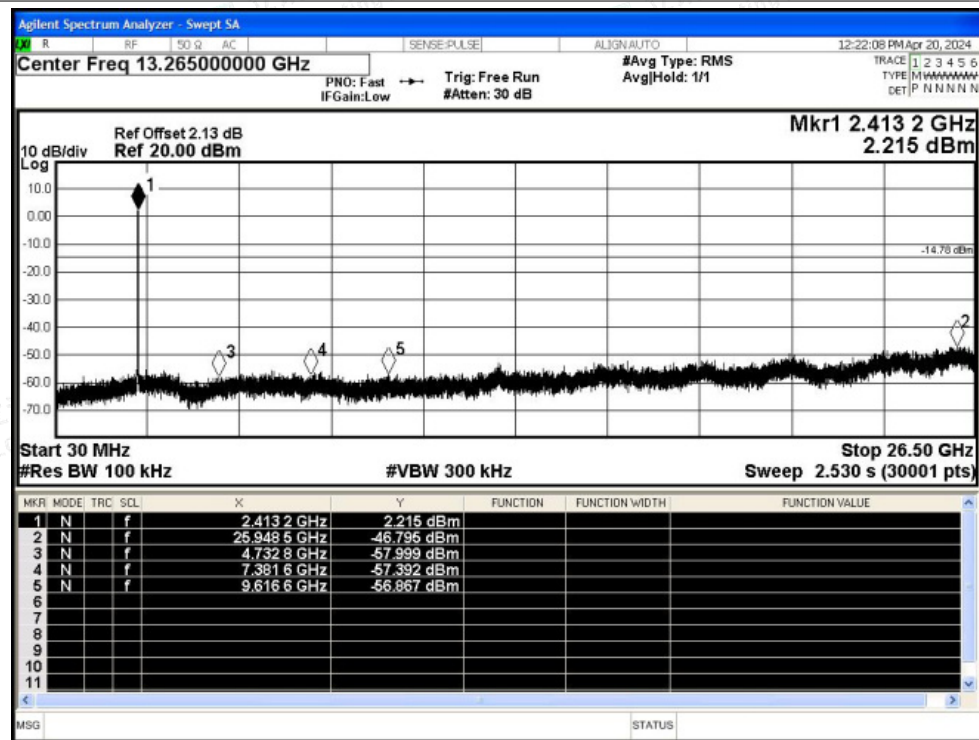


## Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref

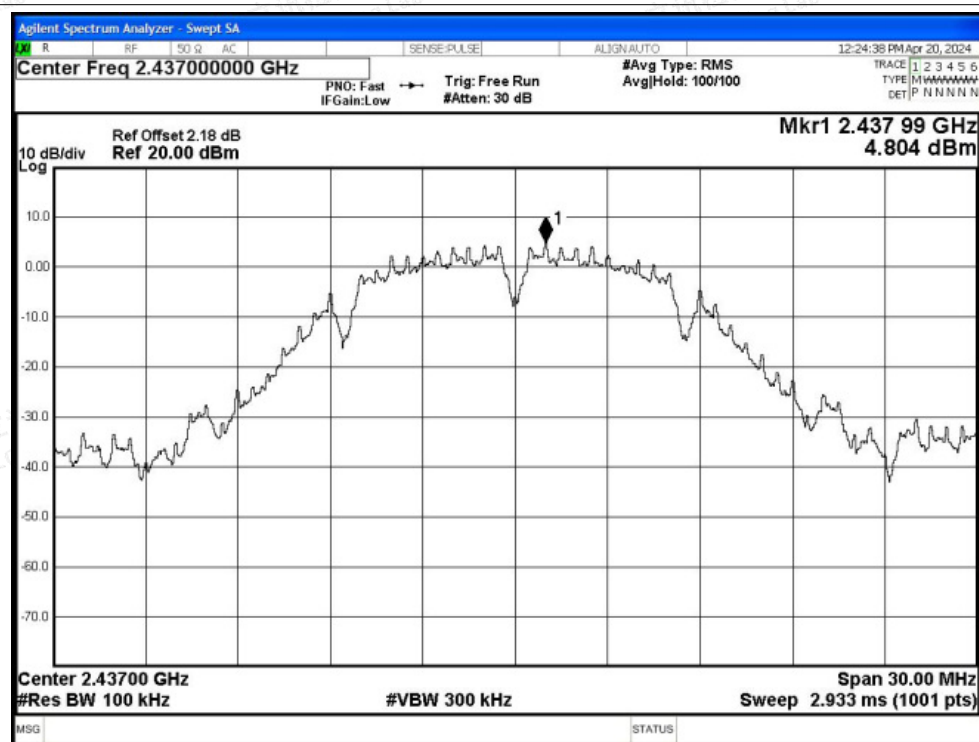


Tx. Spurious NVNT b 2412MHz Ant1 Emission

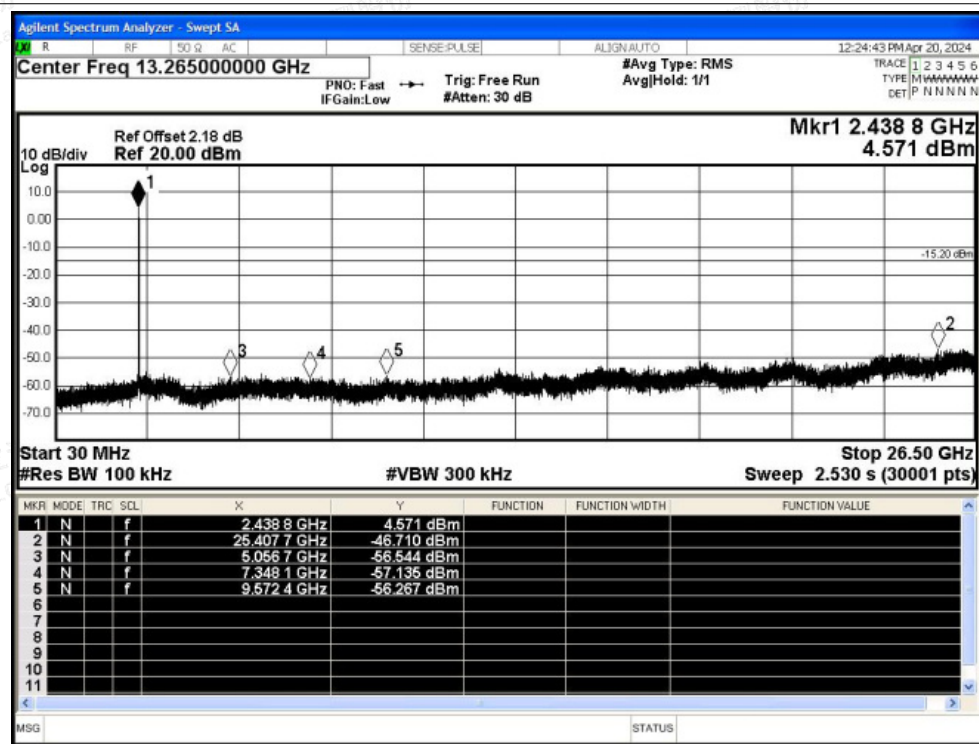




## Tx. Spurious NVNT b 2437MHz Ant1 Ref



## Tx. Spurious NVNT b 2437MHz Ant1 Emission



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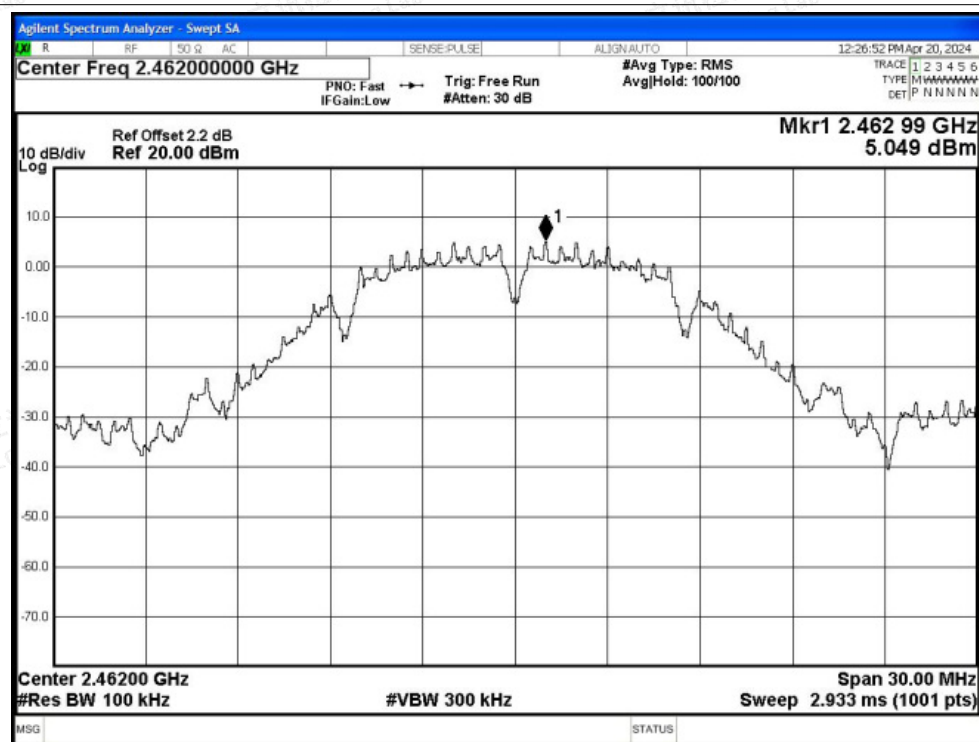
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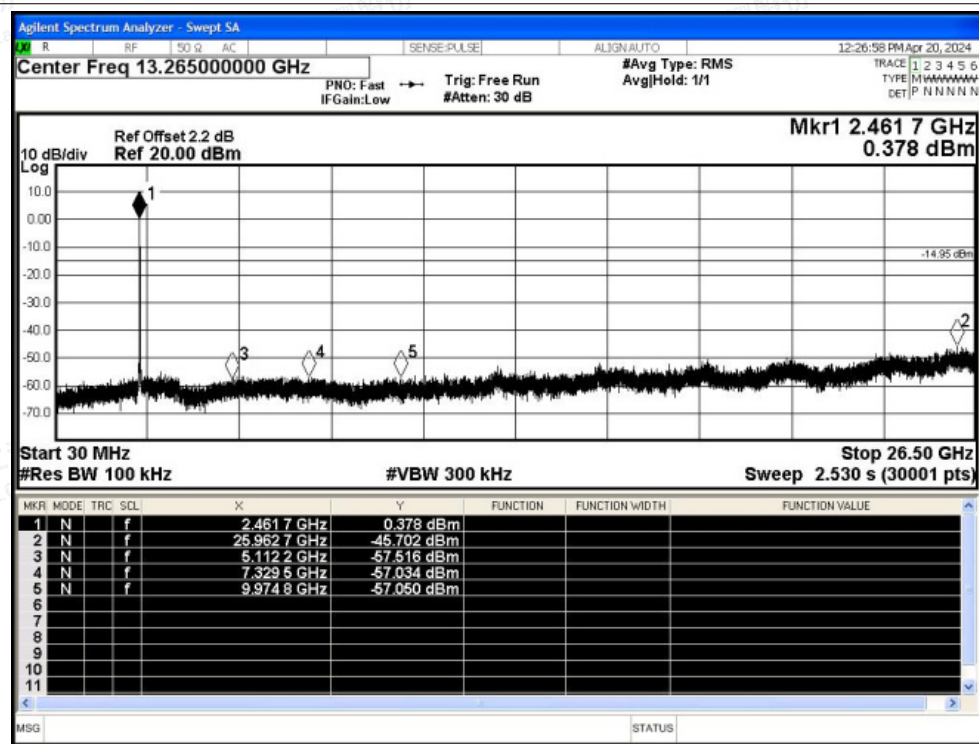
Scan code to check authenticity



## Tx. Spurious NVNT b 2462MHz Ant1 Ref



## Tx. Spurious NVNT b 2462MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

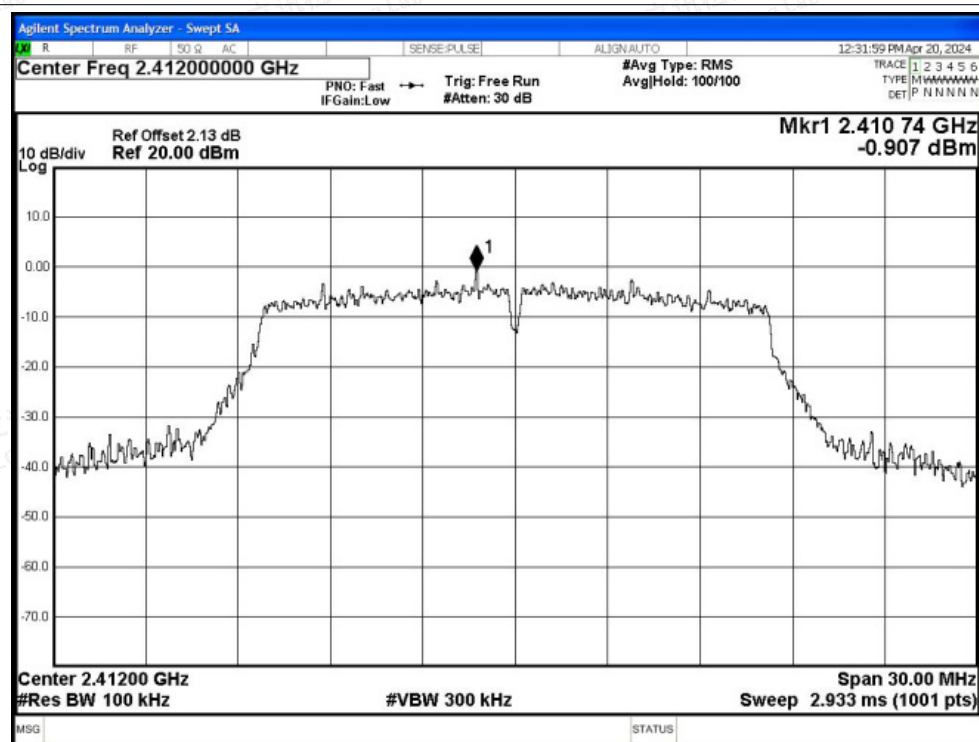
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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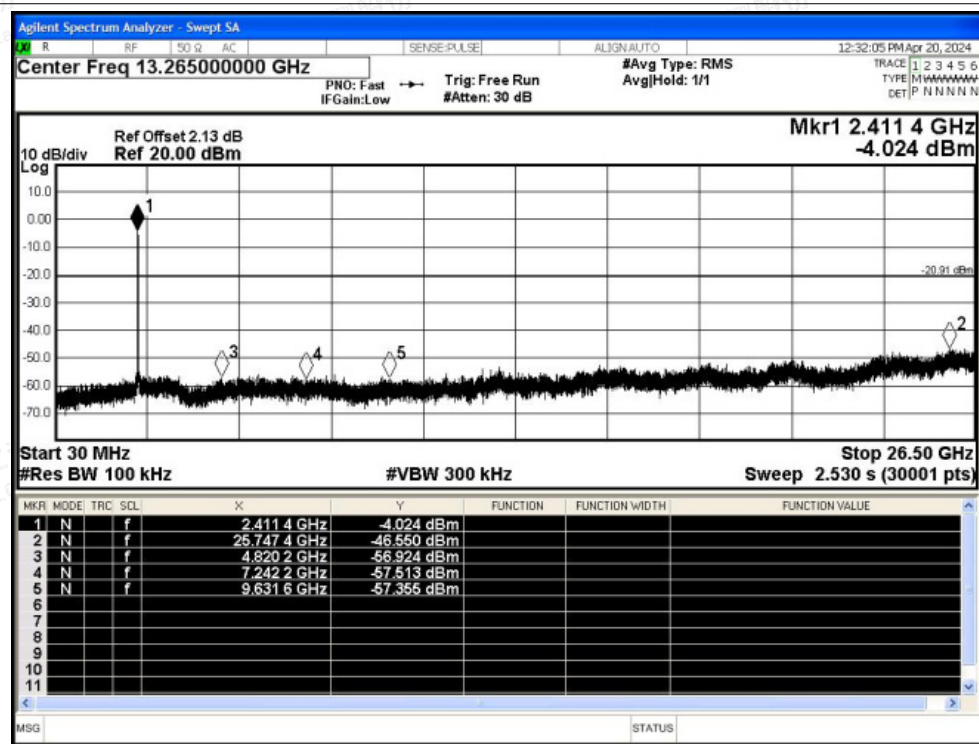
Scan code to check authenticity



## Tx. Spurious NVNT g 2412MHz Ant1 Ref



## Tx. Spurious NVNT g 2412MHz Ant1 Emission



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