



Appendix B

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Zeus Oasis Plus Fountain

Test Model: 96422

Environmental Conditions

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





## B.1 -6dB Bandwidth

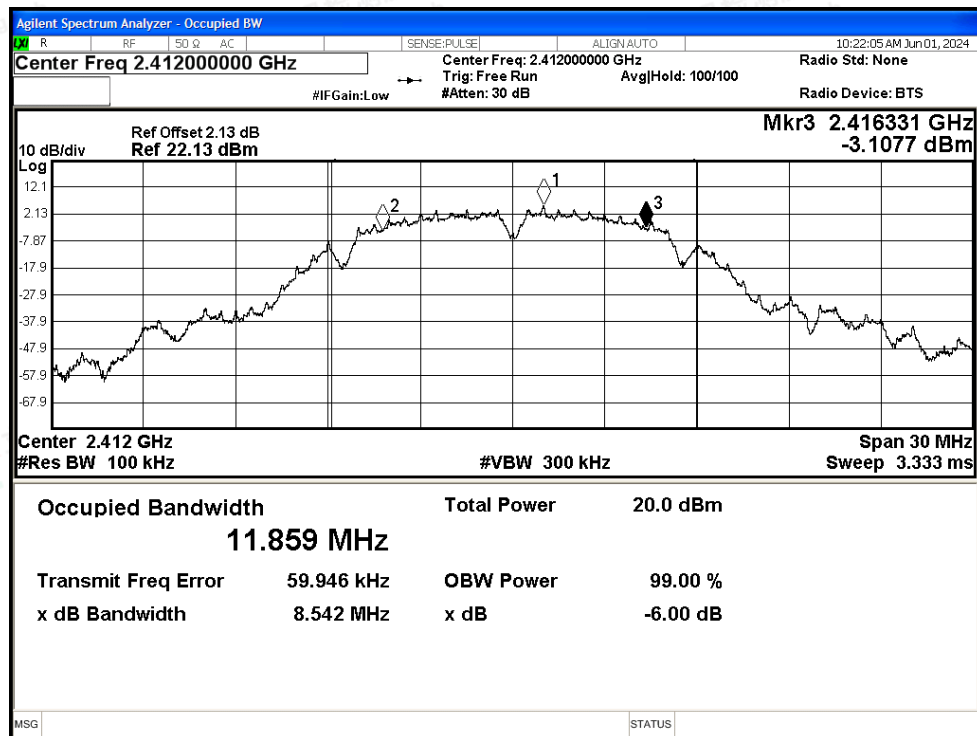
| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | b    | 2412            | Ant1    | 8.542                 | $\geq 0.5$                  | Pass    |
| NVNT      | b    | 2437            | Ant1    | 9.019                 | $\geq 0.5$                  | Pass    |
| NVNT      | b    | 2462            | Ant1    | 8.548                 | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2412            | Ant1    | 16.298                | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2437            | Ant1    | 16.286                | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2462            | Ant1    | 16.301                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 16.949                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 17.138                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 17.118                | $\geq 0.5$                  | Pass    |



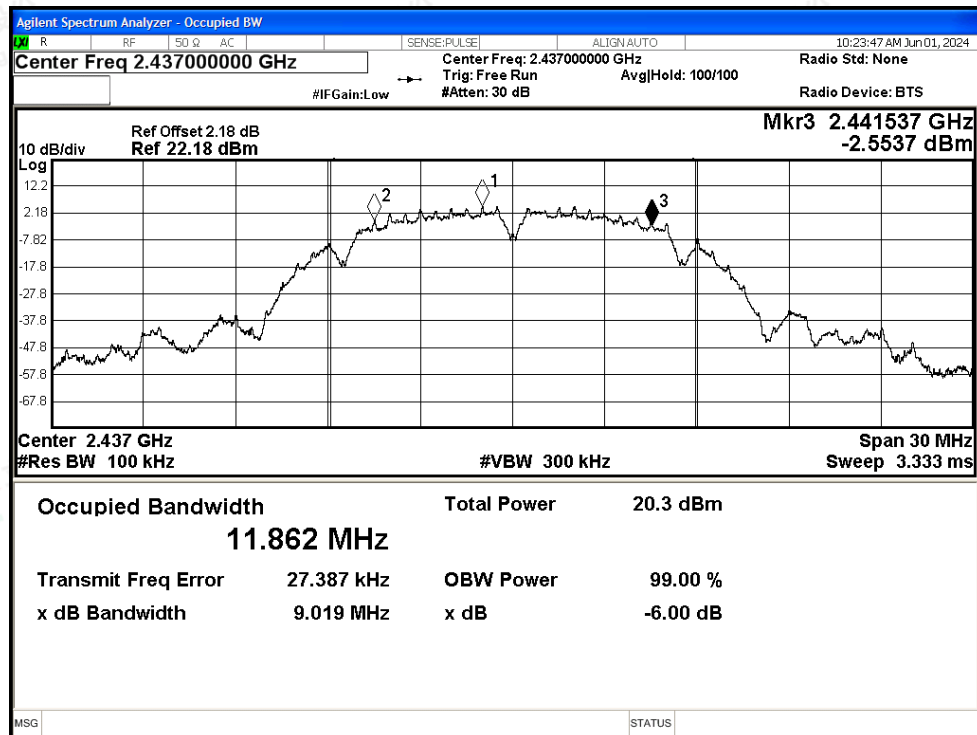


## Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



-6dB Bandwidth NVNT b 2437MHz Ant1



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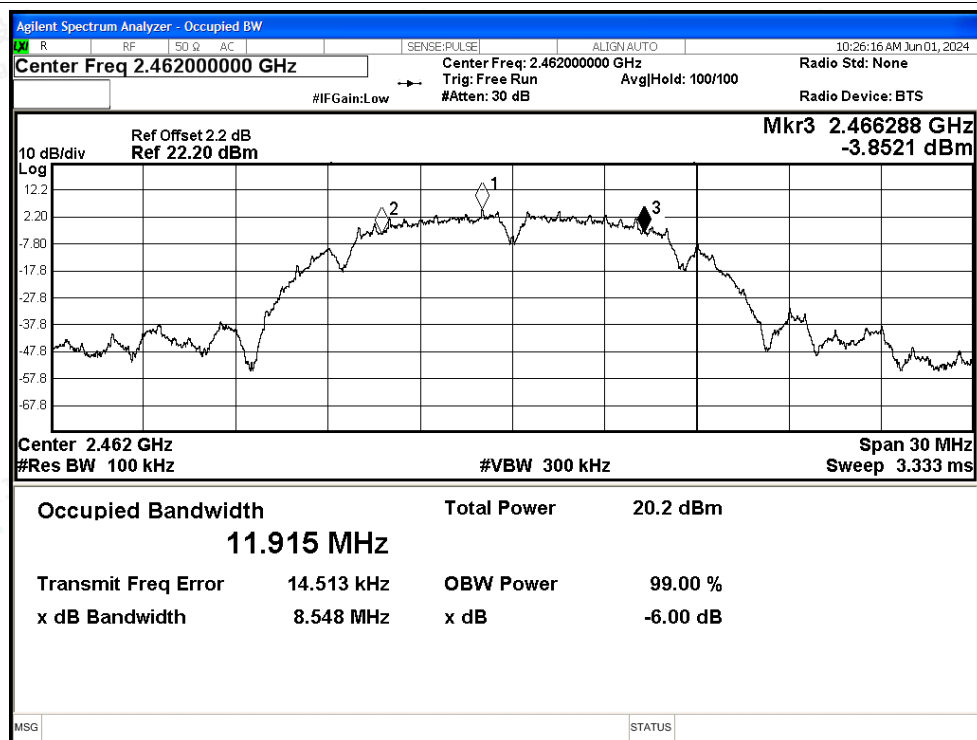
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

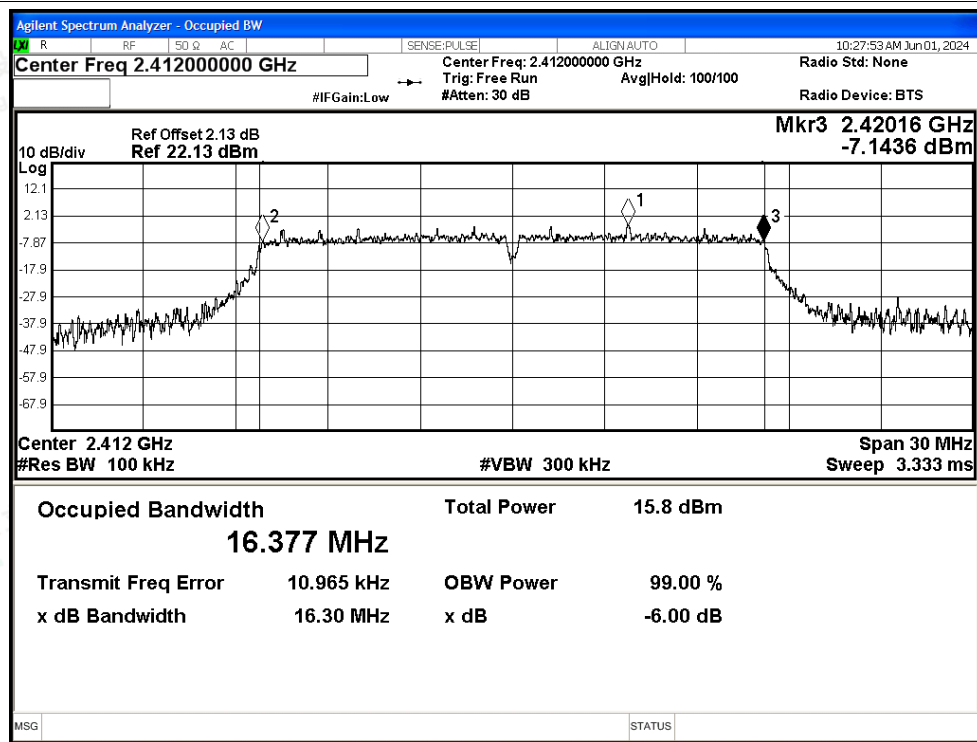
Scan code to check authenticity



## -6dB Bandwidth NVNT b 2462MHz Ant1



## -6dB Bandwidth NVNT g 2412MHz Ant1



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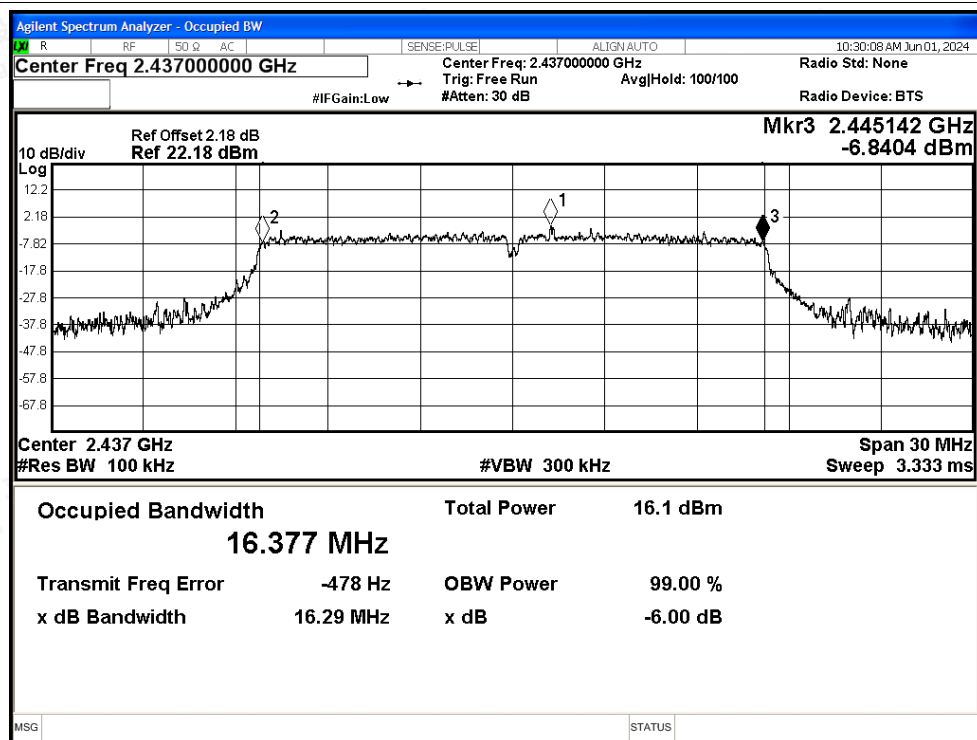
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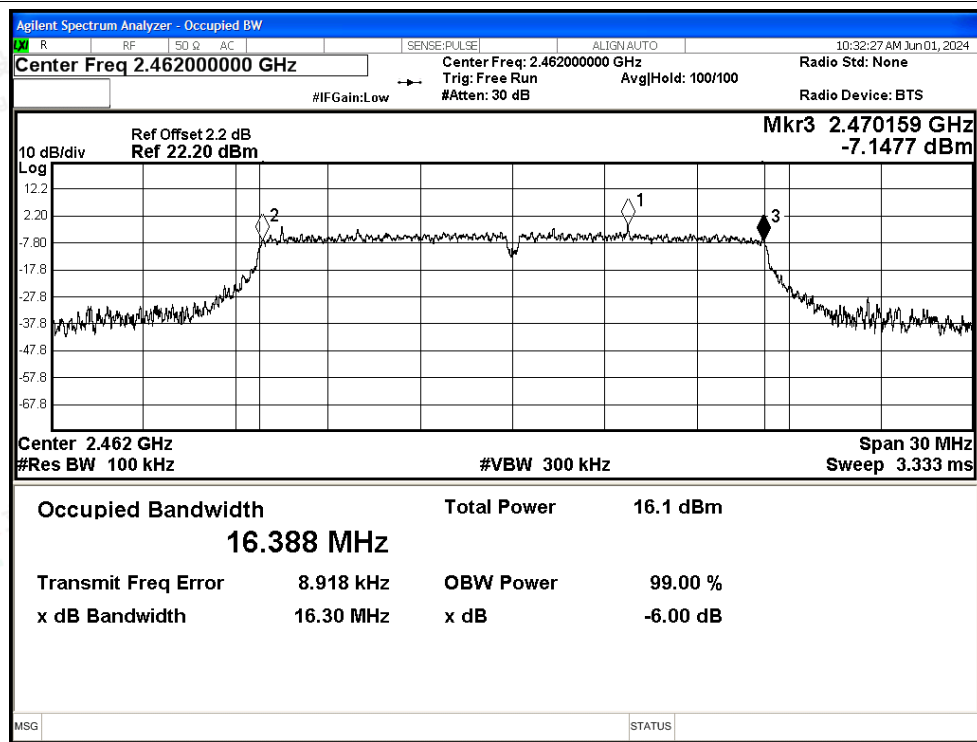
Scan code to check authenticity



## -6dB Bandwidth NVNT g 2437MHz Ant1



## -6dB Bandwidth NVNT g 2462MHz Ant1



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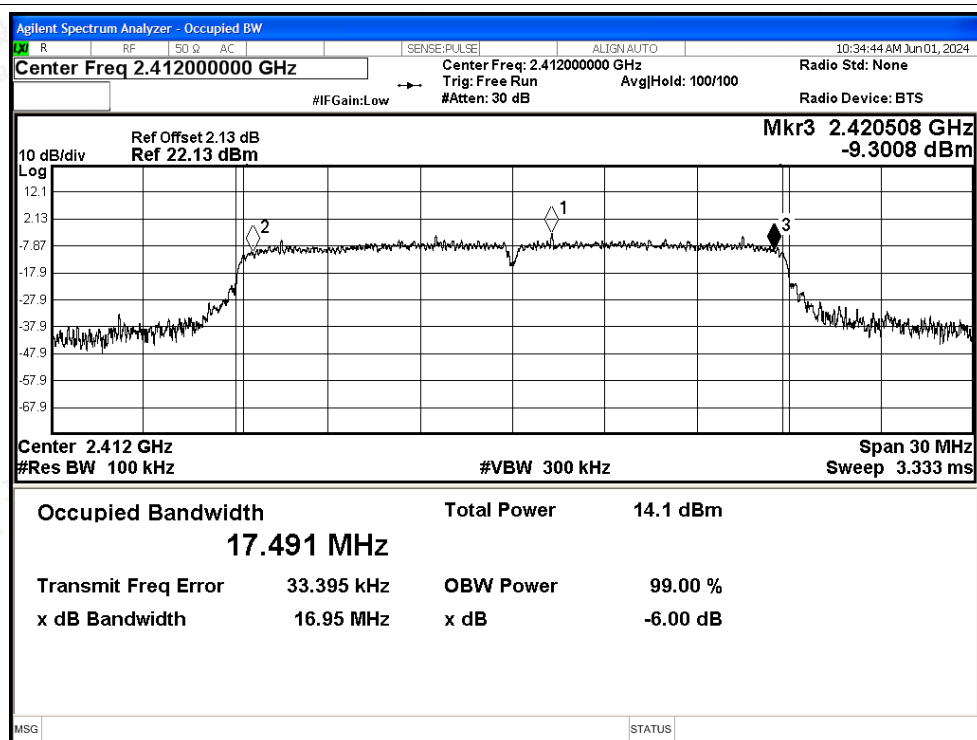
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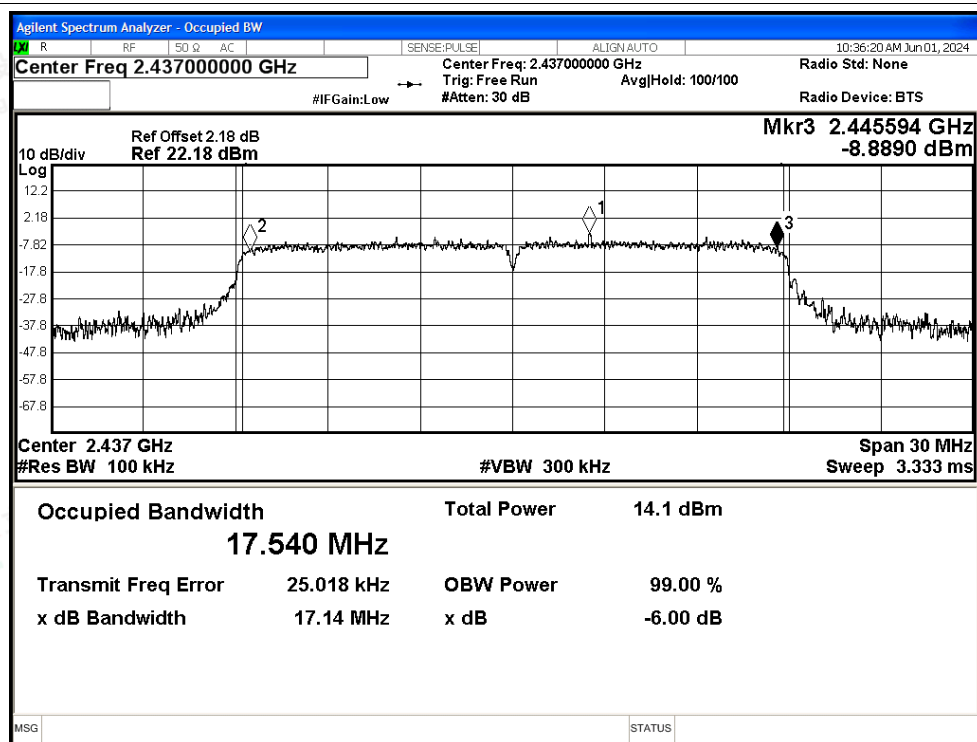
Scan code to check authenticity



## -6dB Bandwidth NVNT n20 2412MHz Ant1



## -6dB Bandwidth NVNT n20 2437MHz Ant1

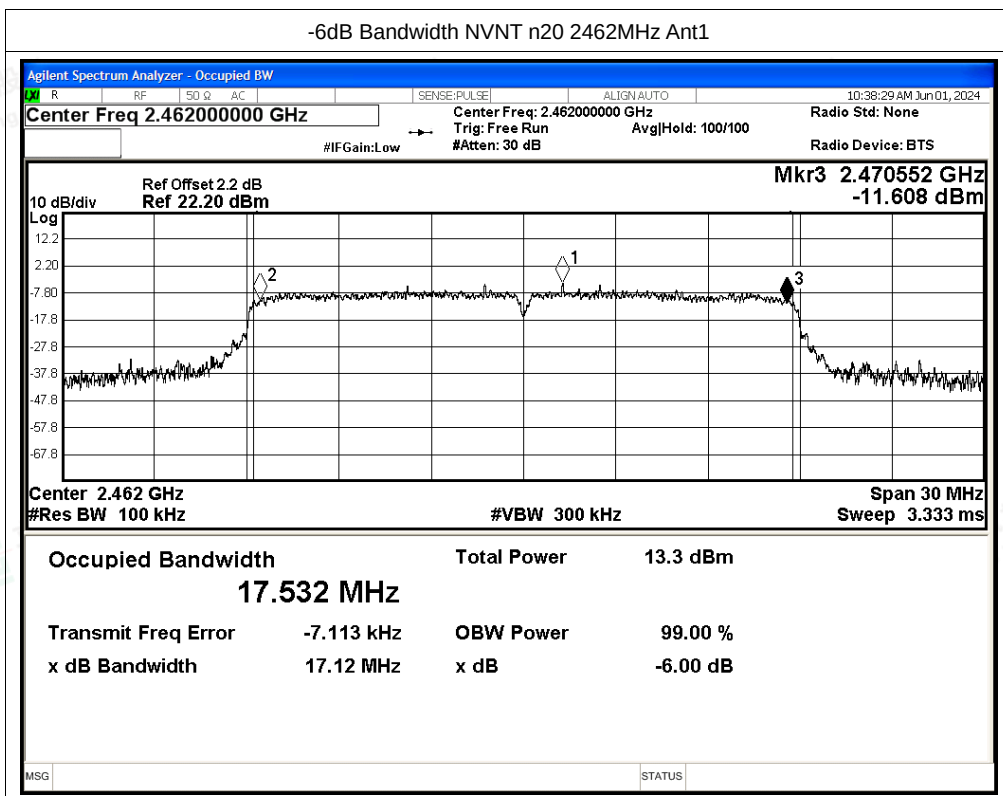


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## B.2 Maximum Conducted Output Power

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Duty Factor (dB) | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|------------------|-------------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | 15.11                 | 0                | 15.11             | 30          | Pass    |
| NVNT      | b    | 2437            | Ant1    | 15.3                  | 0                | 15.3              | 30          | Pass    |
| NVNT      | b    | 2462            | Ant1    | 15.23                 | 0                | 15.23             | 30          | Pass    |
| NVNT      | g    | 2412            | Ant1    | 14.49                 | 0                | 14.49             | 30          | Pass    |
| NVNT      | g    | 2437            | Ant1    | 14.8                  | 0                | 14.8              | 30          | Pass    |
| NVNT      | g    | 2462            | Ant1    | 14.93                 | 0                | 14.93             | 30          | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 12.88                 | 0                | 12.88             | 30          | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 12.66                 | 0                | 12.66             | 30          | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 11.95                 | 0                | 11.95             | 30          | Pass    |





### B.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    | -9.17                    | 0                | -9.17                | 8                | Pass    |
| NVNT      | b    | 2437            | Ant1    | -9.25                    | 0                | -9.25                | 8                | Pass    |
| NVNT      | b    | 2462            | Ant1    | -5.77                    | 0                | -5.77                | 8                | Pass    |
| NVNT      | g    | 2412            | Ant1    | -16.47                   | 0                | -16.47               | 8                | Pass    |
| NVNT      | g    | 2437            | Ant1    | -15.69                   | 0                | -15.69               | 8                | Pass    |
| NVNT      | g    | 2462            | Ant1    | -15.46                   | 0                | -15.46               | 8                | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -18.19                   | 0                | -18.19               | 8                | Pass    |
| NVNT      | n20  | 2437            | Ant1    | -17.47                   | 0                | -17.47               | 8                | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -17.98                   | 0                | -17.98               | 8                | Pass    |

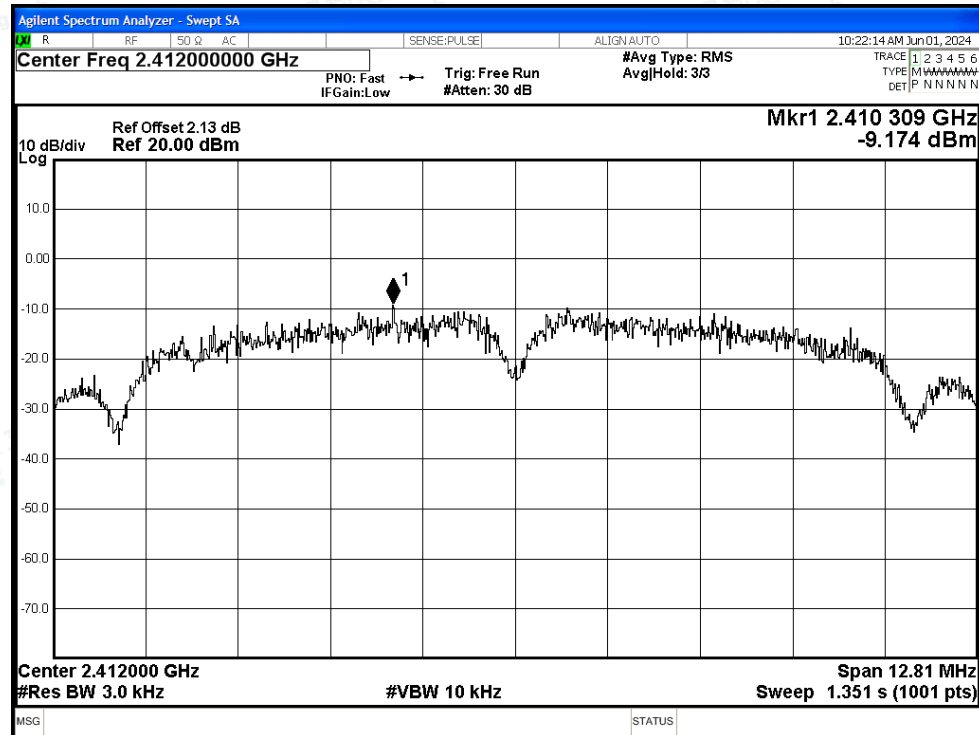


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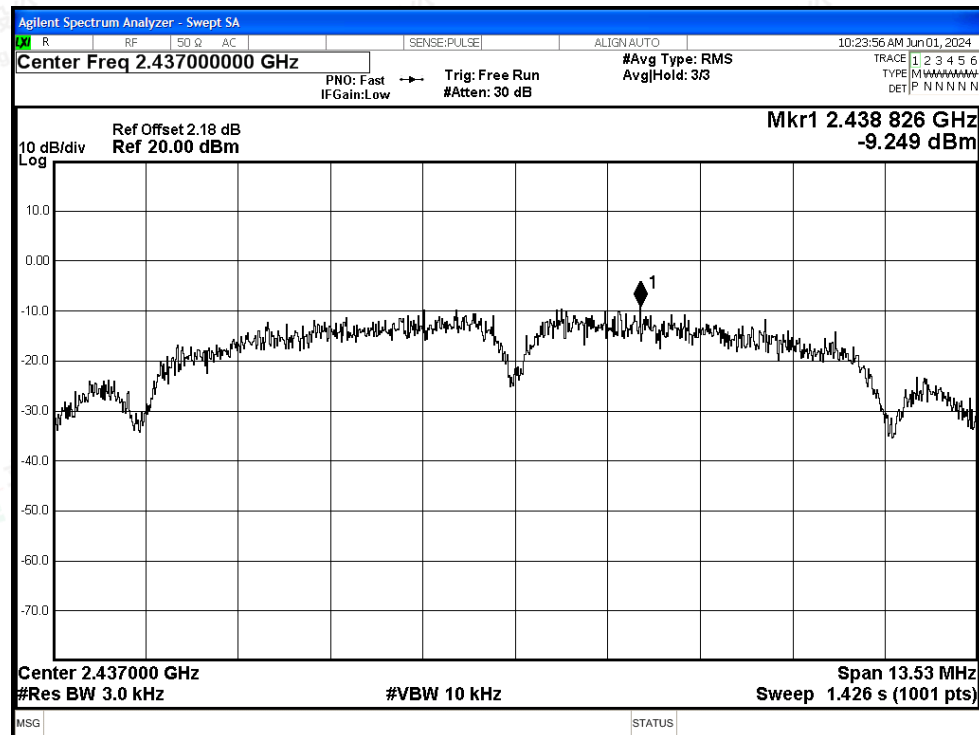


## Test Graphs

## PSD NVNT b 2412MHz Ant1

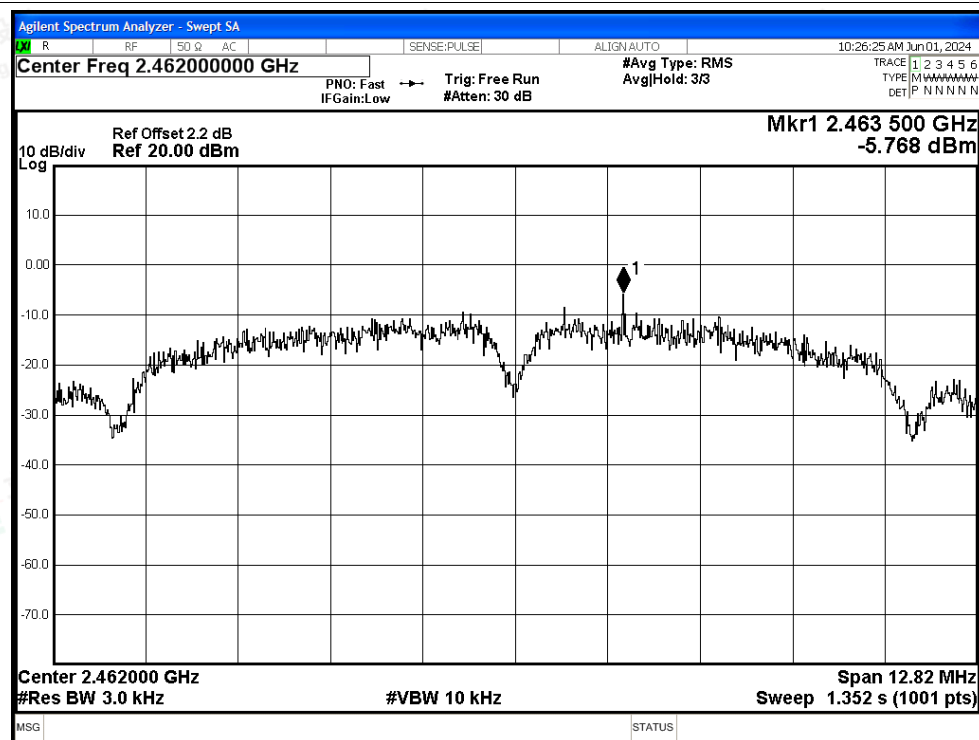


## PSD NVNT b 2437MHz Ant1

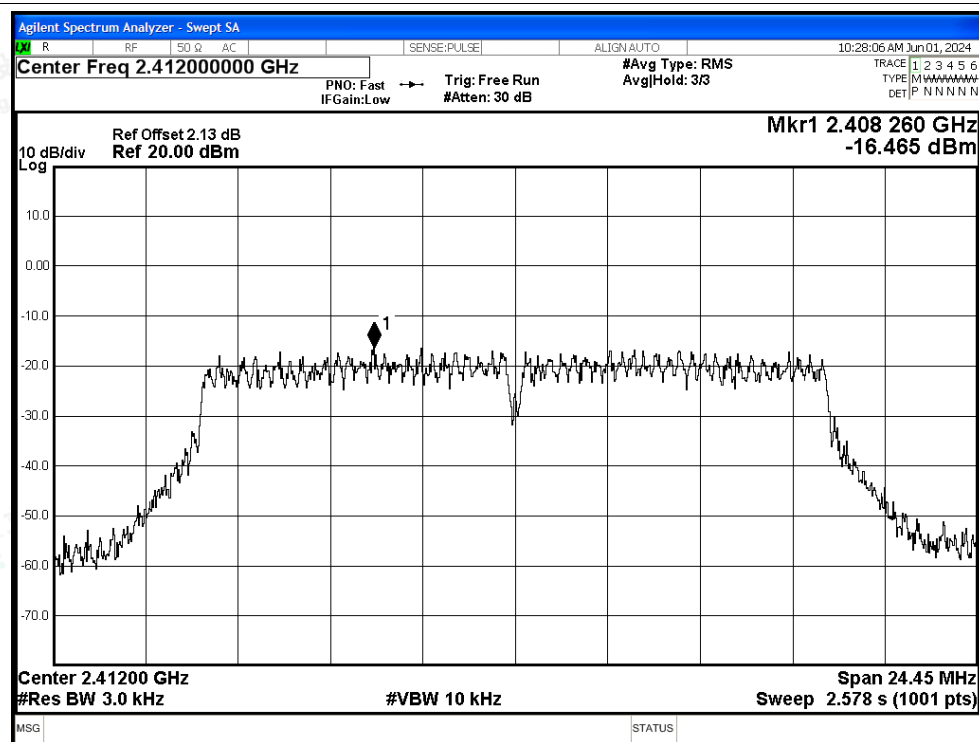




PSD NVNT b 2462MHz Ant1

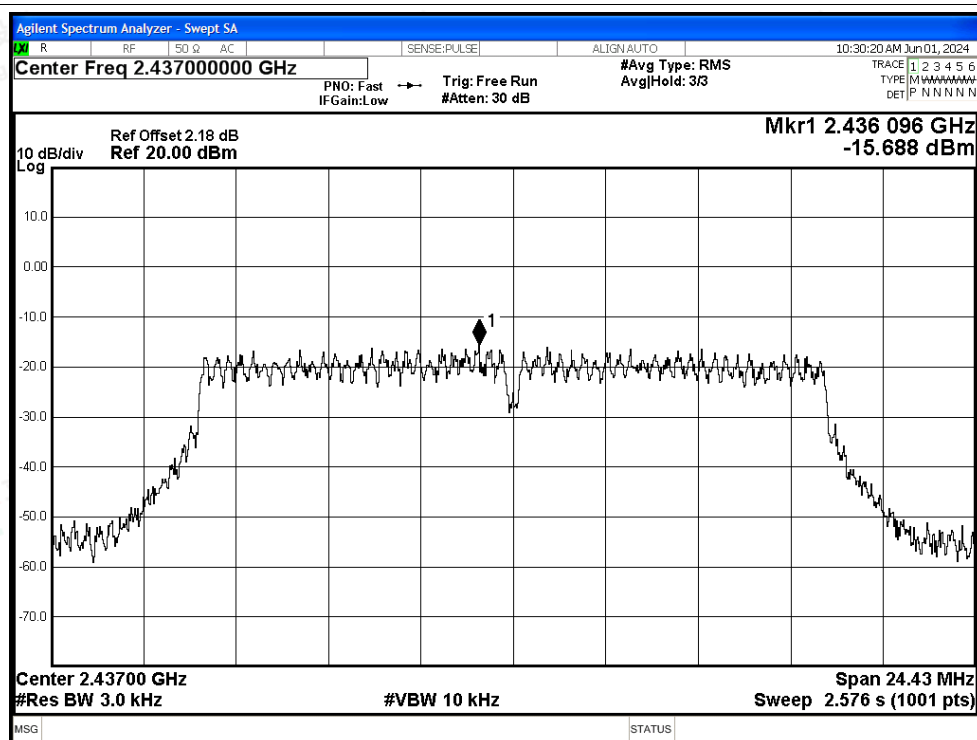


PSD NVNT g 2412MHz Ant1

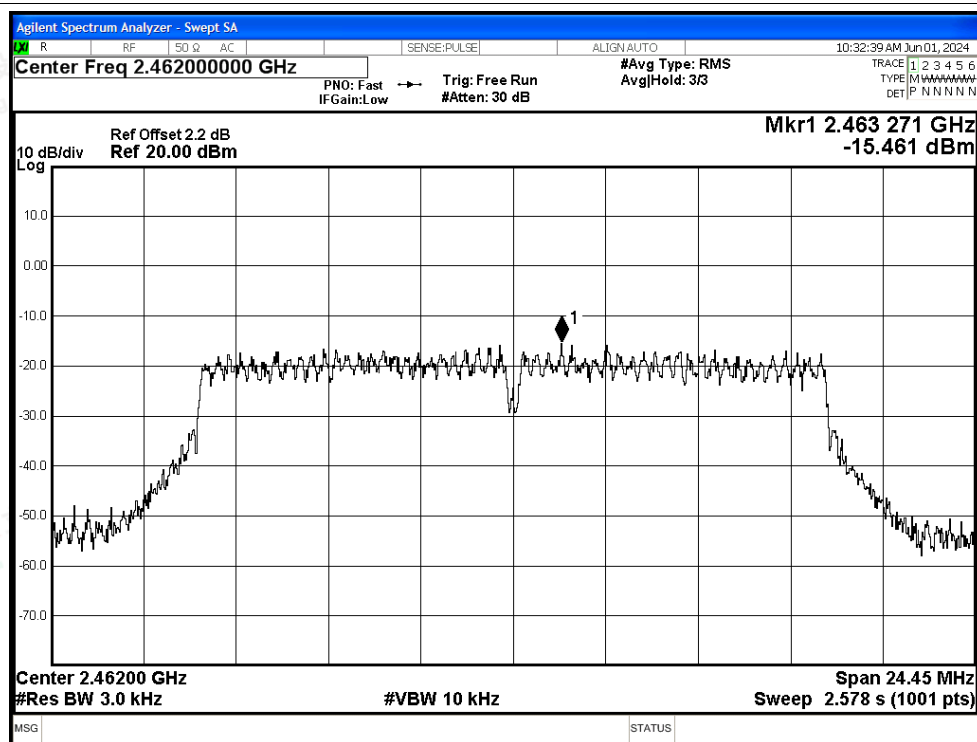




PSD NVNT g 2437MHz Ant1



PSD NVNT g 2462MHz Ant1

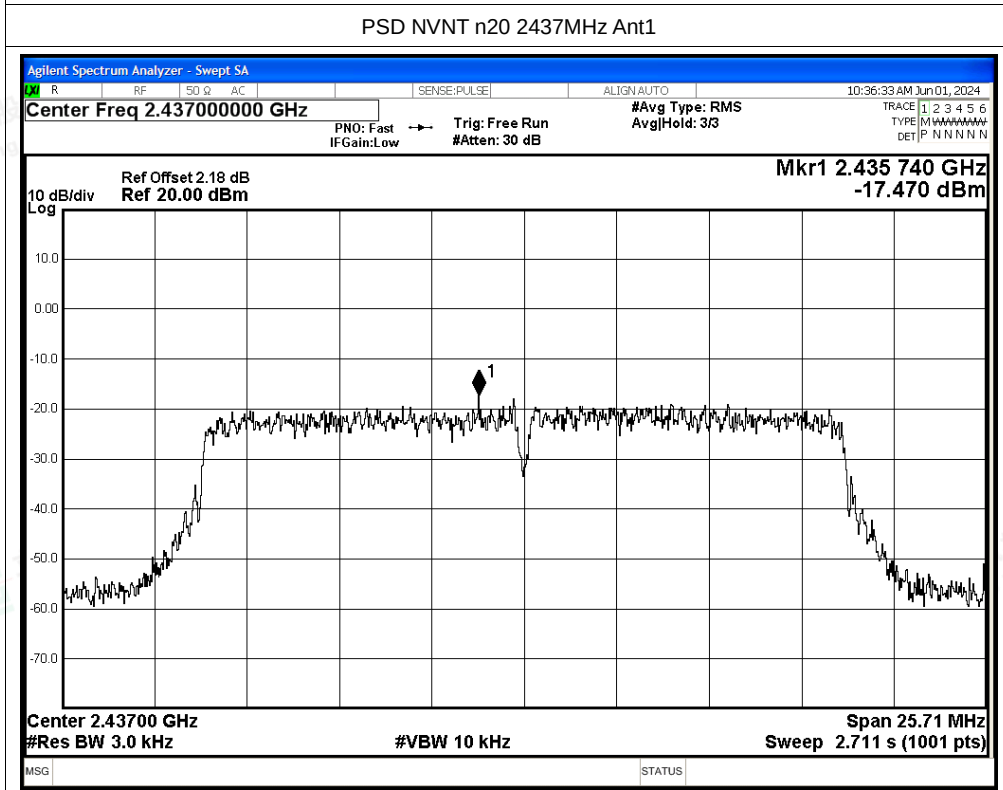
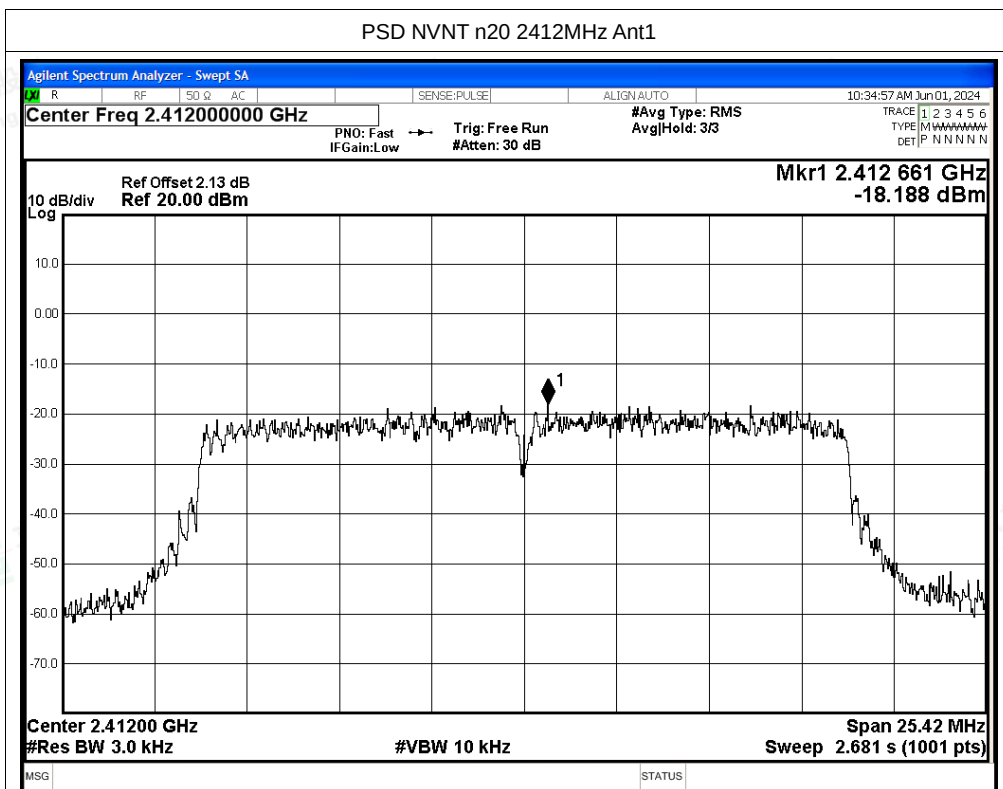


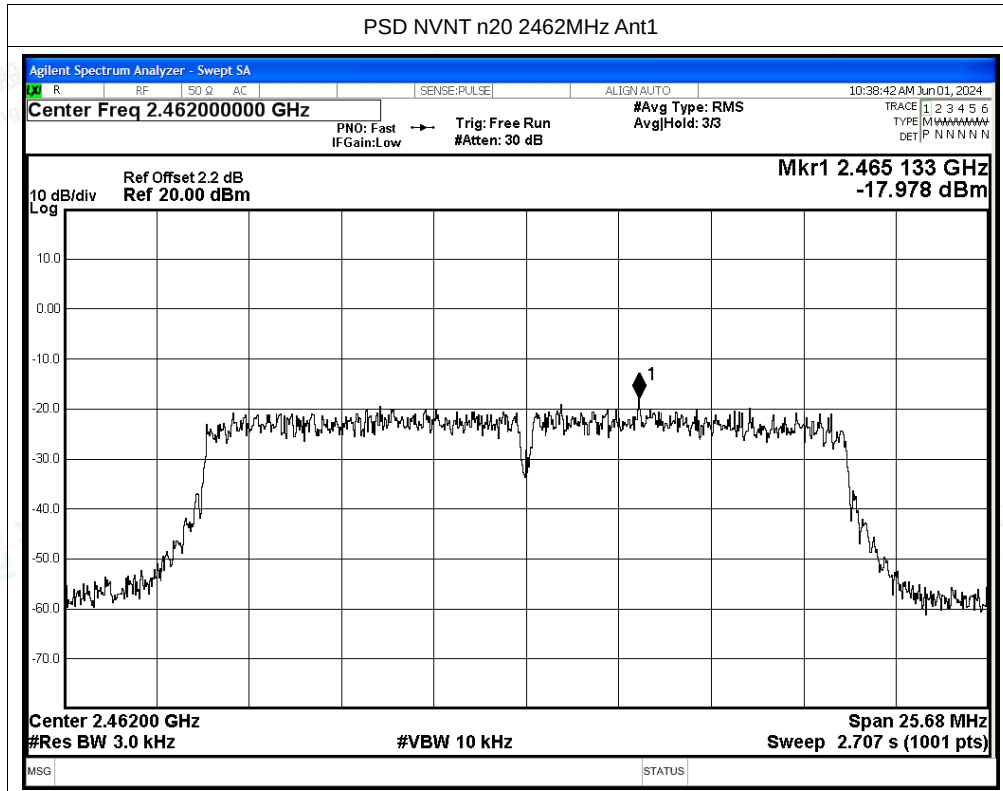
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## B.4 Band Edge

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | -45.36          | -20         | Pass    |
| NVNT      | b    | 2462            | Ant1    | -60.61          | -20         | Pass    |
| NVNT      | g    | 2412            | Ant1    | -32.35          | -20         | Pass    |
| NVNT      | g    | 2462            | Ant1    | -45.85          | -20         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -30.96          | -20         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -41.95          | -20         | Pass    |

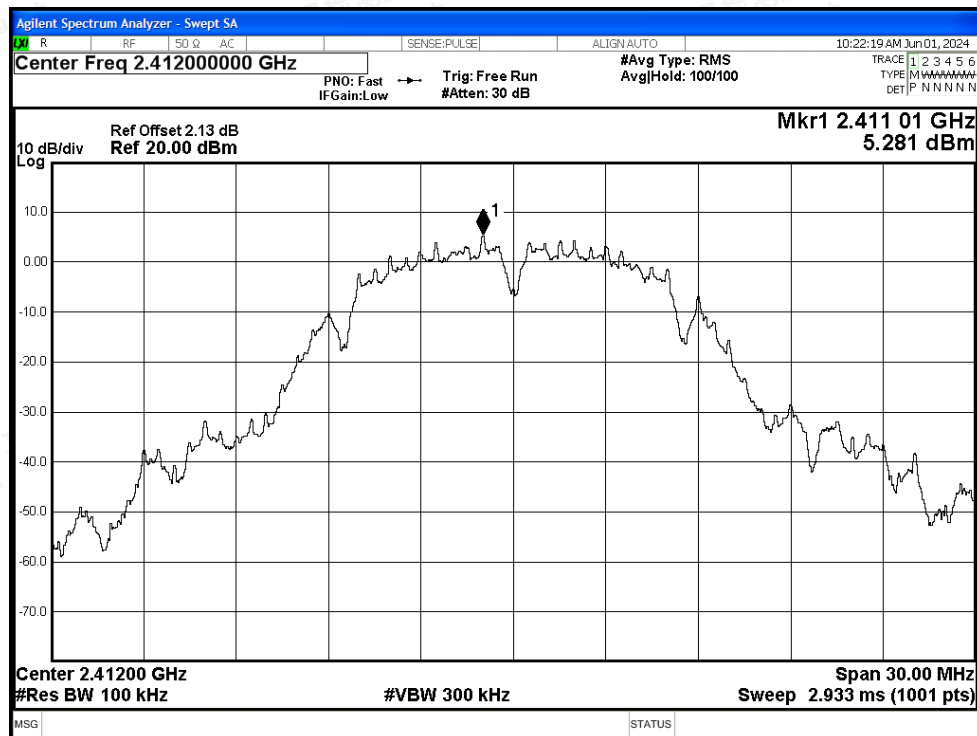


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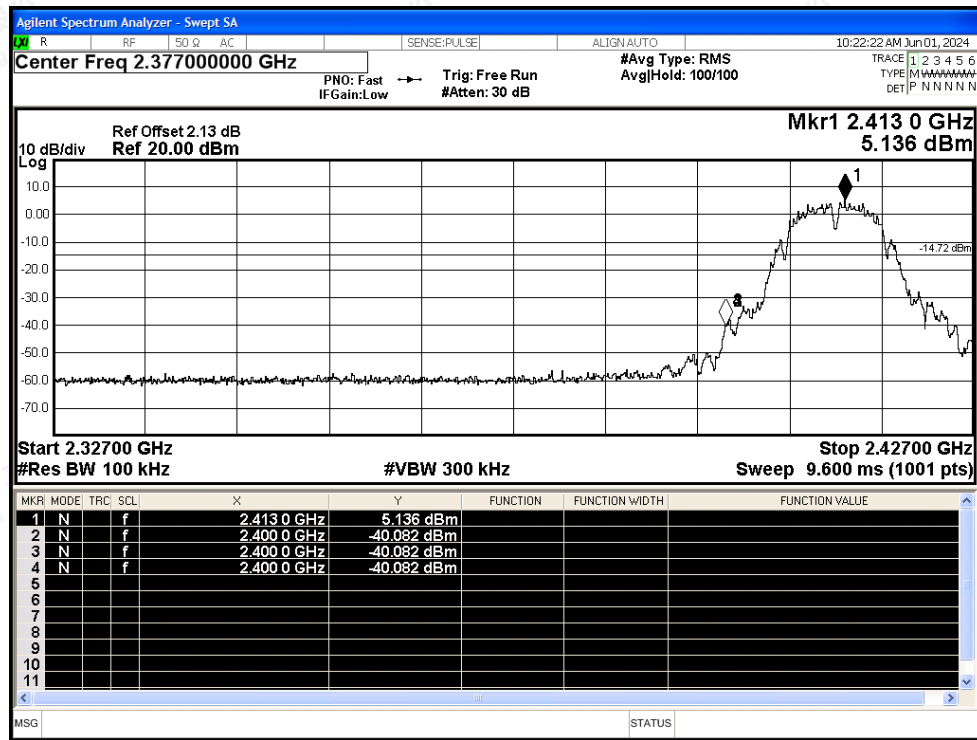


## Test Graphs

## Band Edge NVNT b 2412MHz Ant1 Ref



## Band Edge NVNT b 2412MHz Ant1 Emission



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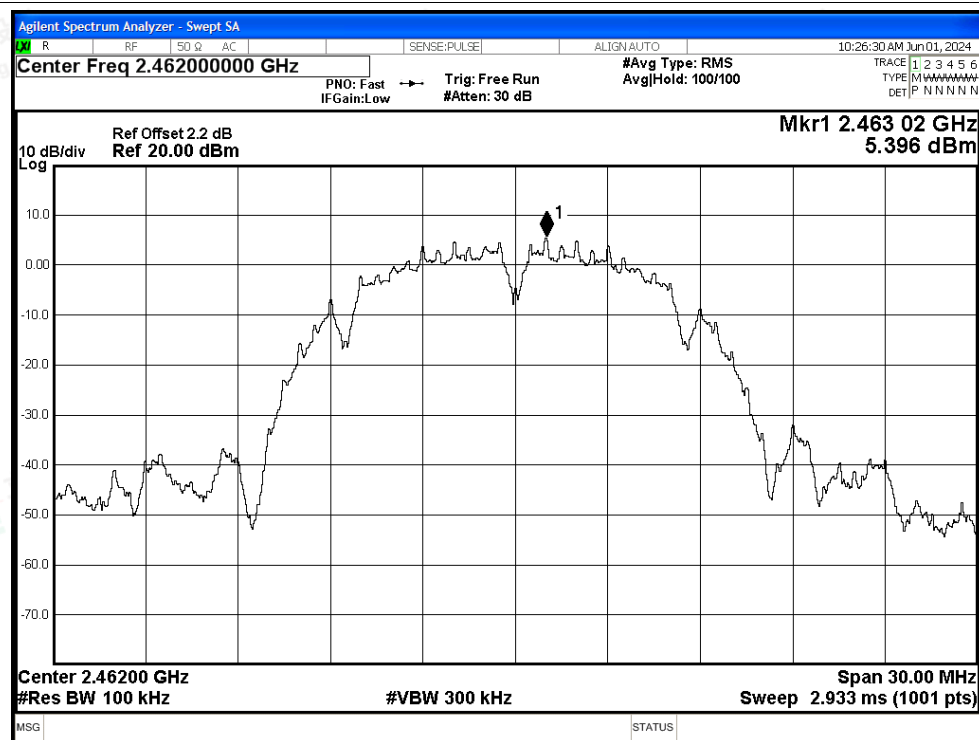
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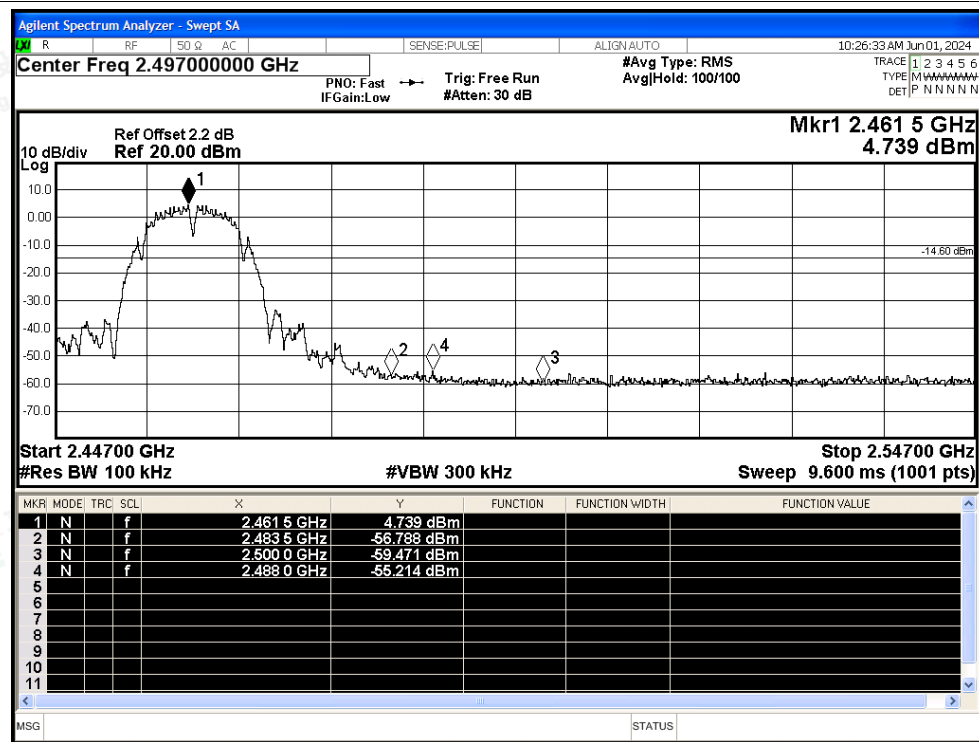
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## Band Edge NVNT b 2462MHz Ant1 Ref

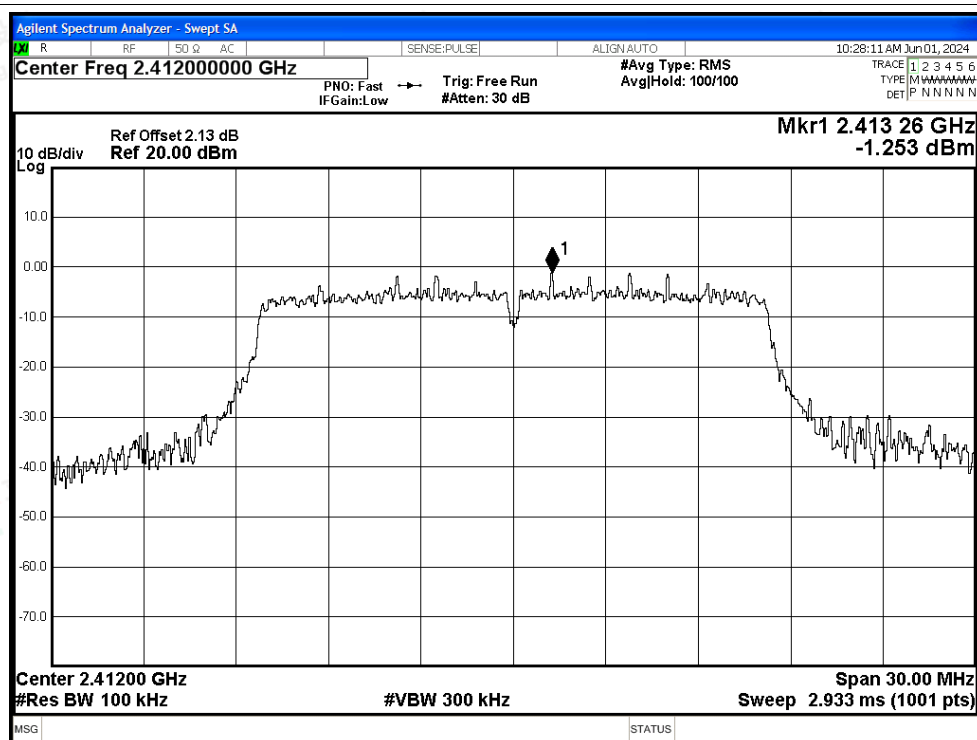


## Band Edge NVNT b 2462MHz Ant1 Emission

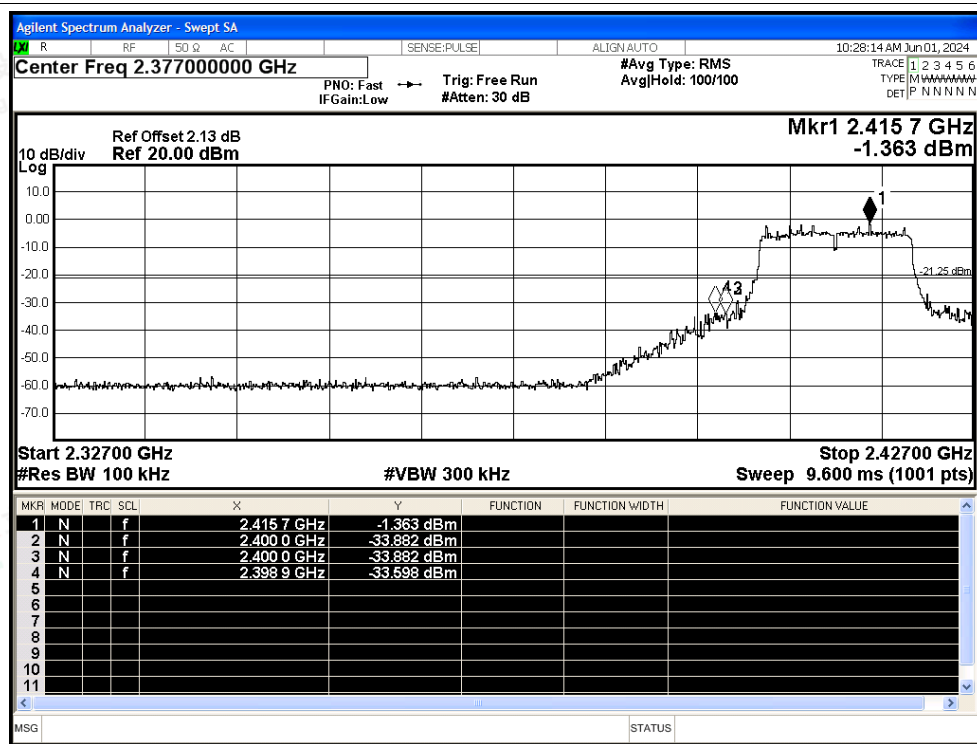




## Band Edge NVNT g 2412MHz Ant1 Ref



## Band Edge NVNT g 2412MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

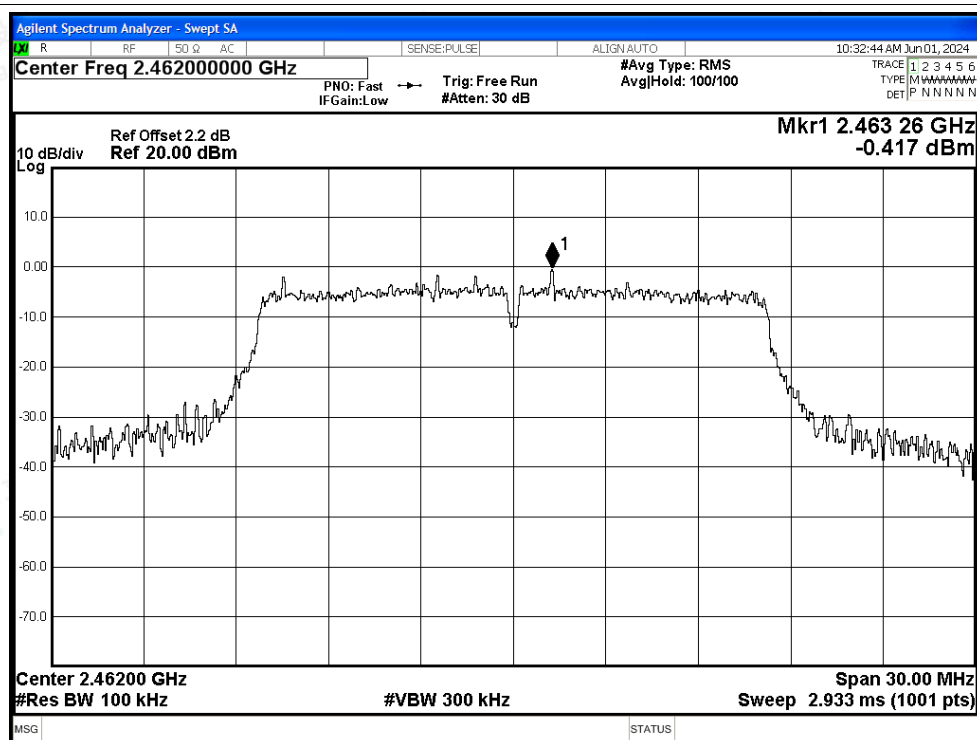
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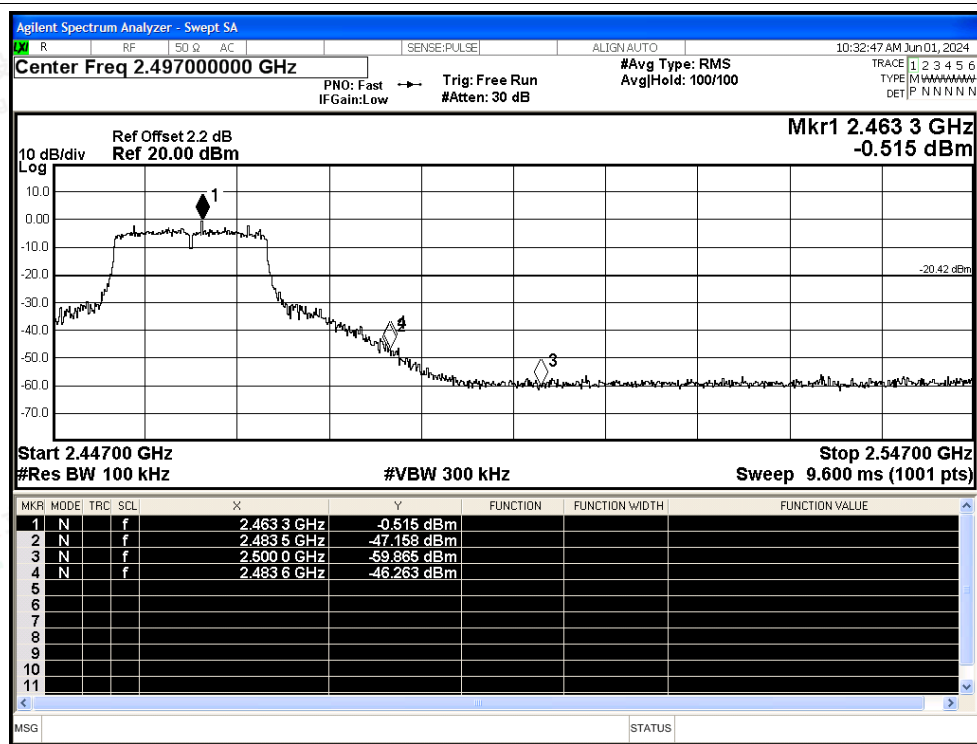
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## Band Edge NVNT g 2462MHz Ant1 Ref



## Band Edge NVNT g 2462MHz Ant1 Emission



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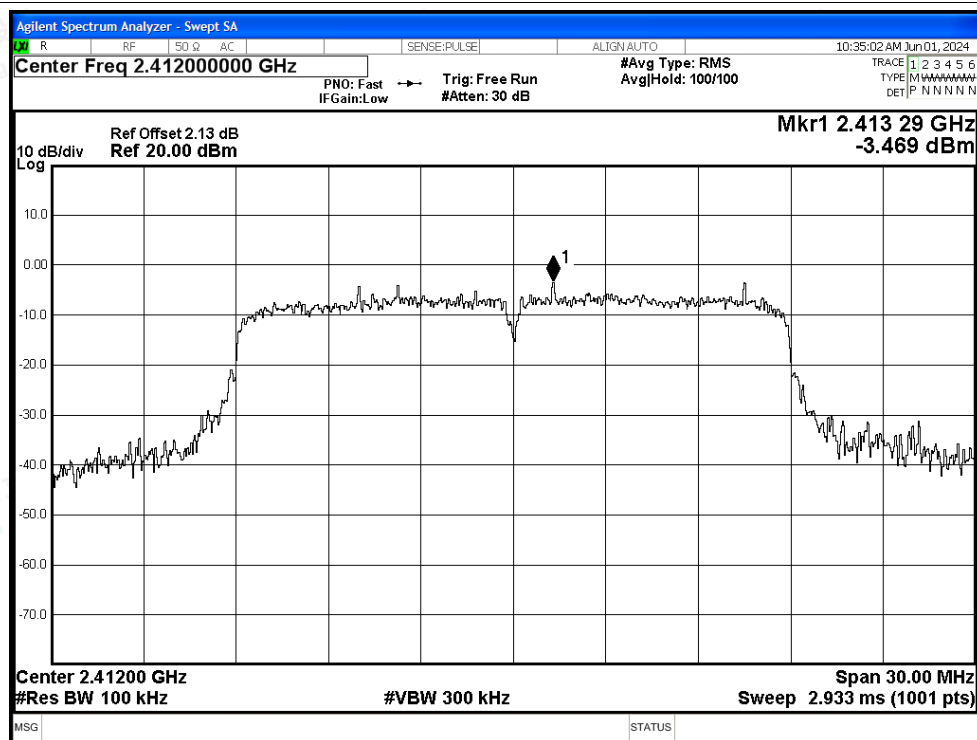
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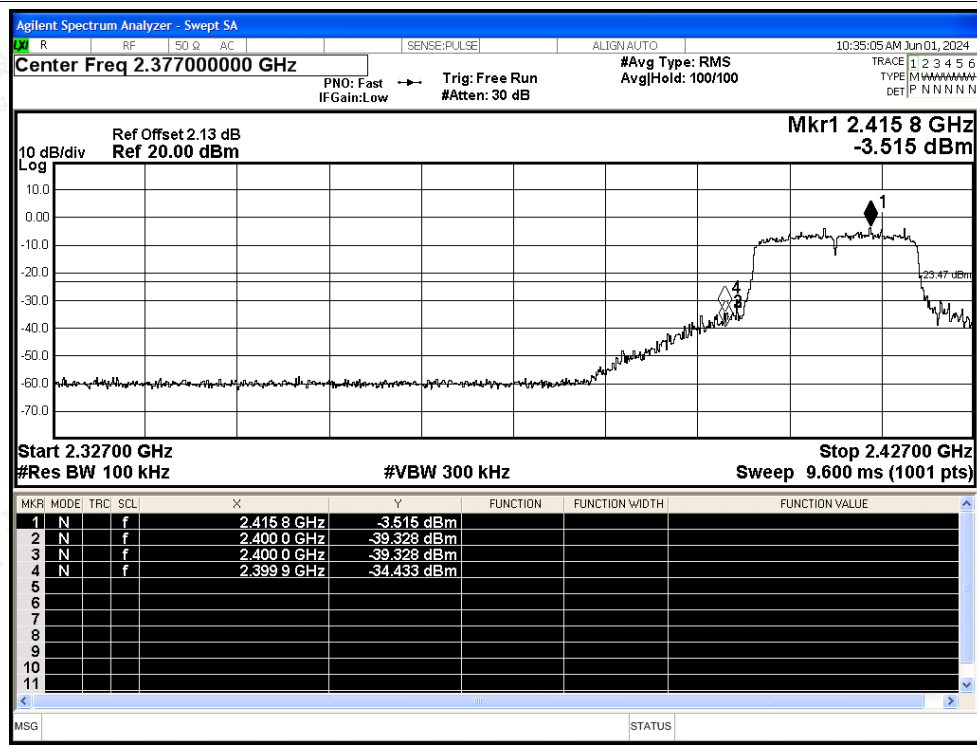
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## Band Edge NVNT n20 2412MHz Ant1 Ref



## Band Edge NVNT n20 2412MHz Ant1 Emission



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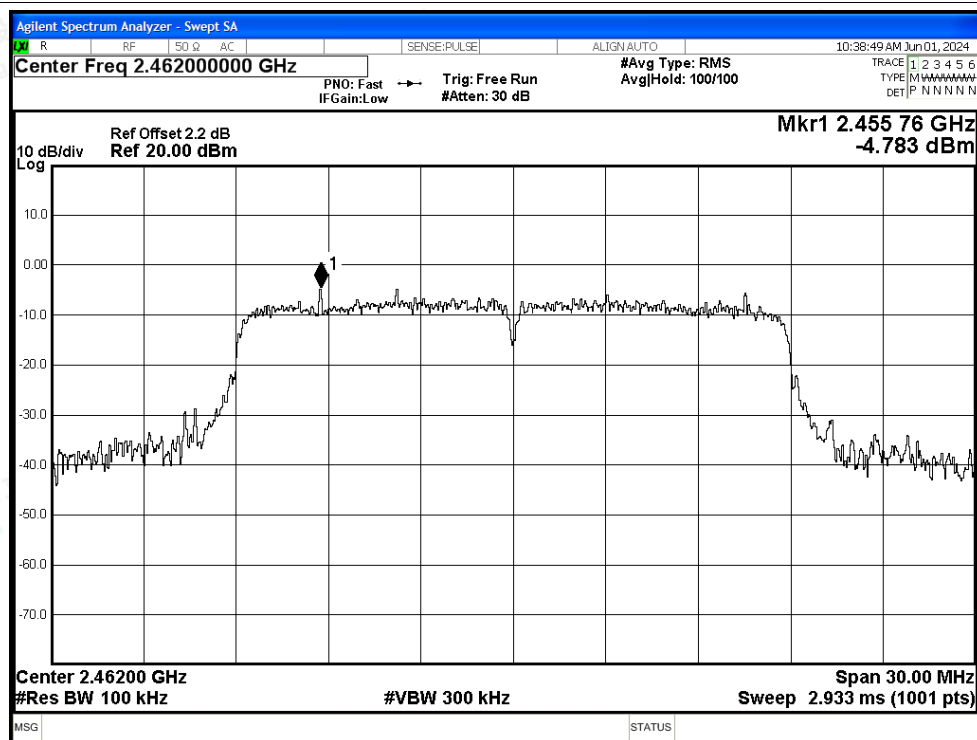
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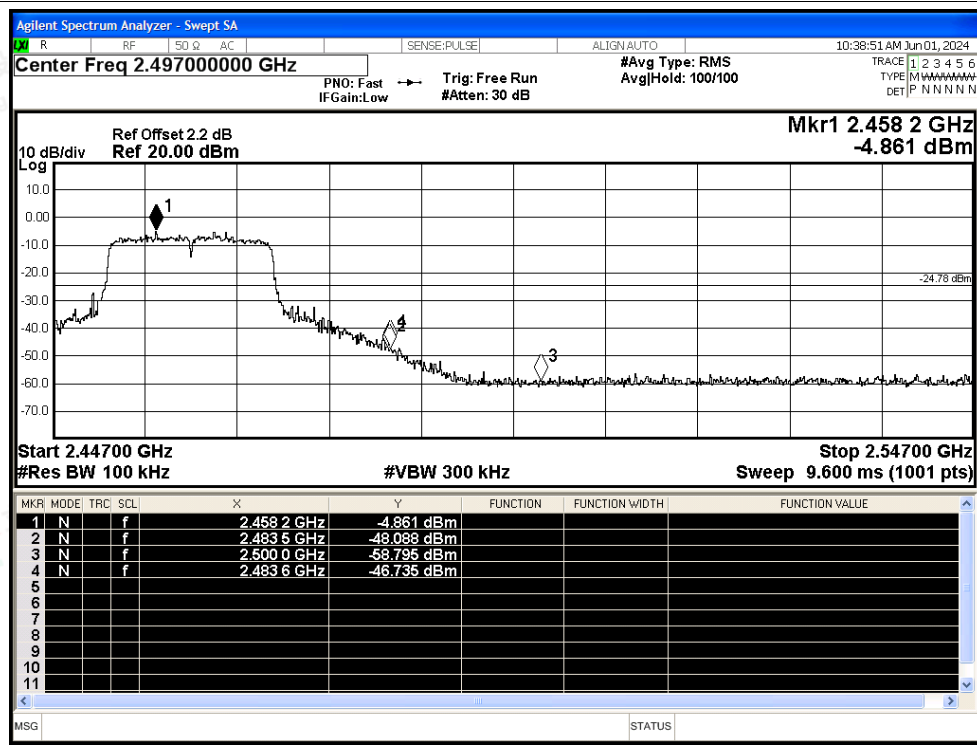
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## Band Edge NVNT n20 2462MHz Ant1 Ref



## Band Edge NVNT n20 2462MHz Ant1 Emission



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## B.5 Conducted RF Spurious Emission

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | -51.02          | -20         | Pass    |
| NVNT      | b    | 2437            | Ant1    | -51.98          | -20         | Pass    |
| NVNT      | b    | 2462            | Ant1    | -52.33          | -20         | Pass    |
| NVNT      | g    | 2412            | Ant1    | -45.55          | -20         | Pass    |
| NVNT      | g    | 2437            | Ant1    | -46.57          | -20         | Pass    |
| NVNT      | g    | 2462            | Ant1    | -42.96          | -20         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -43.05          | -20         | Pass    |
| NVNT      | n20  | 2437            | Ant1    | -42.86          | -20         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -41.44          | -20         | Pass    |

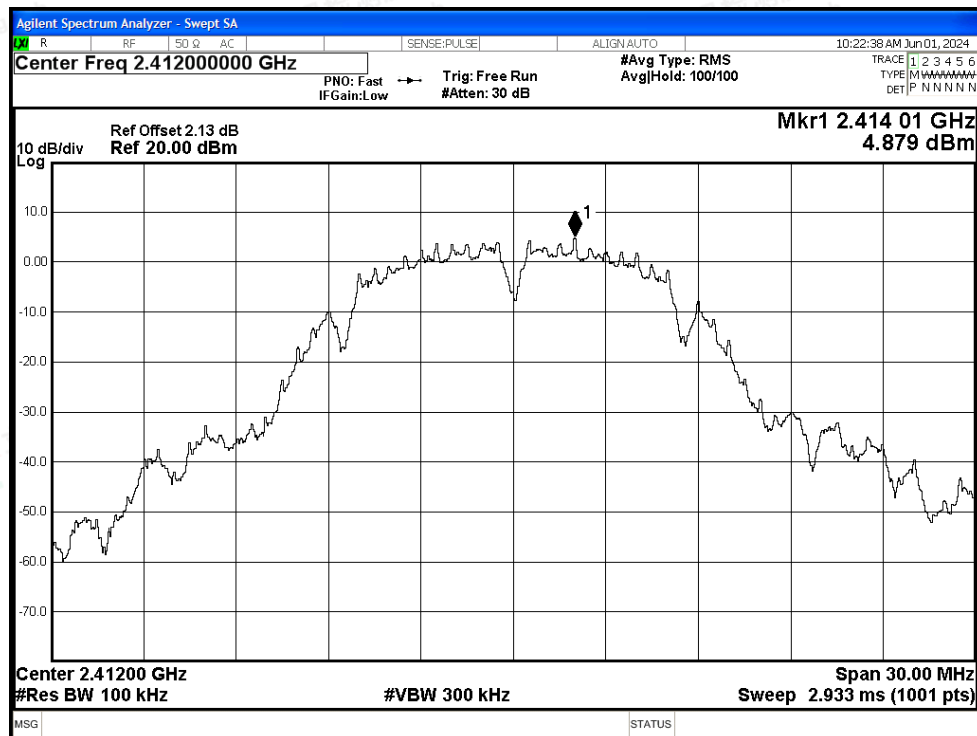


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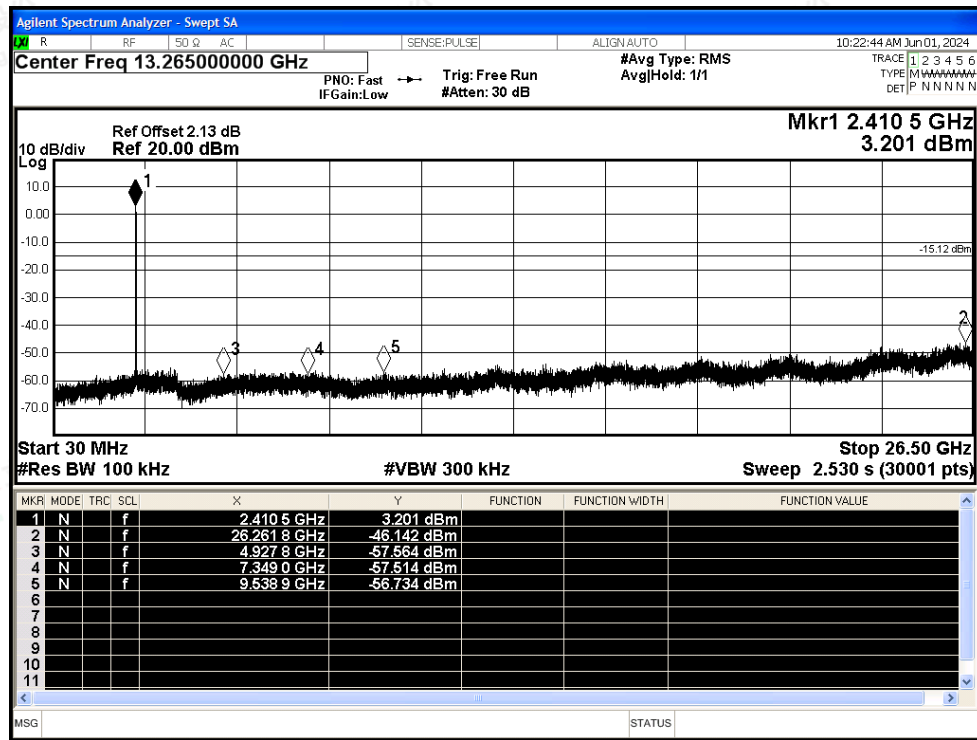


## Test Graphs

## Tx. Spurious NVNT b 2412MHz Ant1 Ref



## Tx. Spurious NVNT b 2412MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

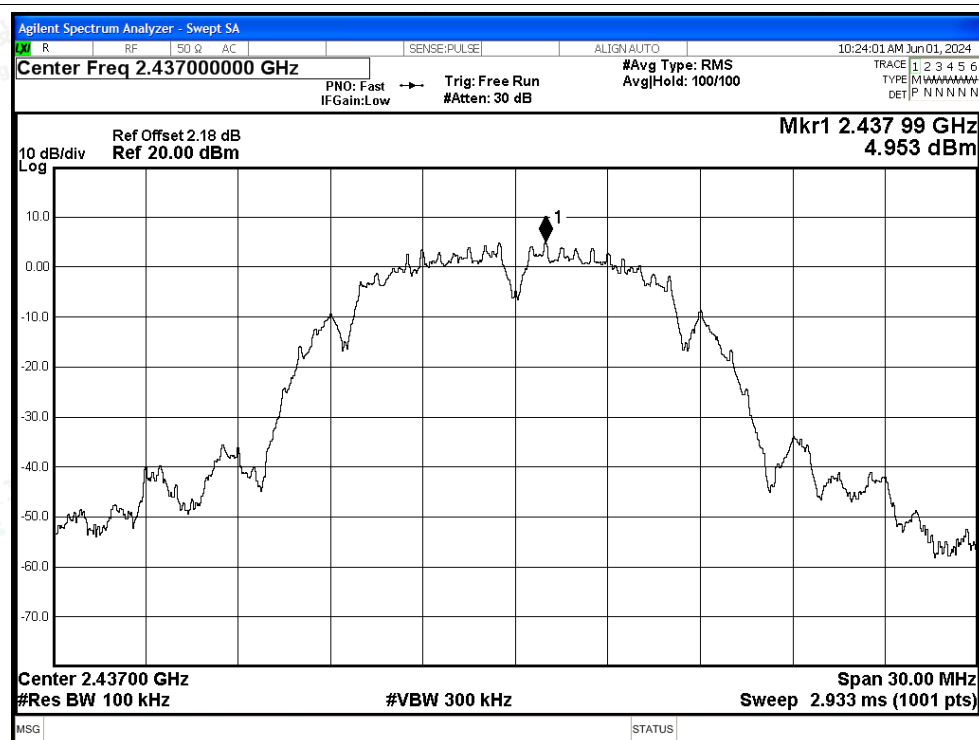
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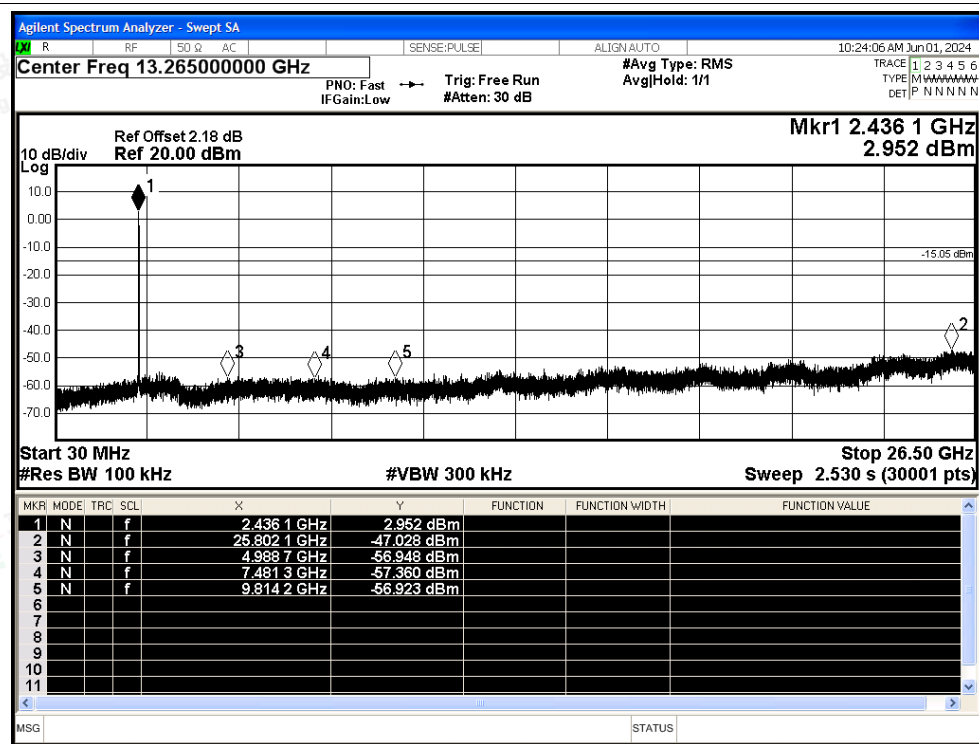
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## Tx. Spurious NVNT b 2437MHz Ant1 Ref



## Tx. Spurious NVNT b 2437MHz Ant1 Emission



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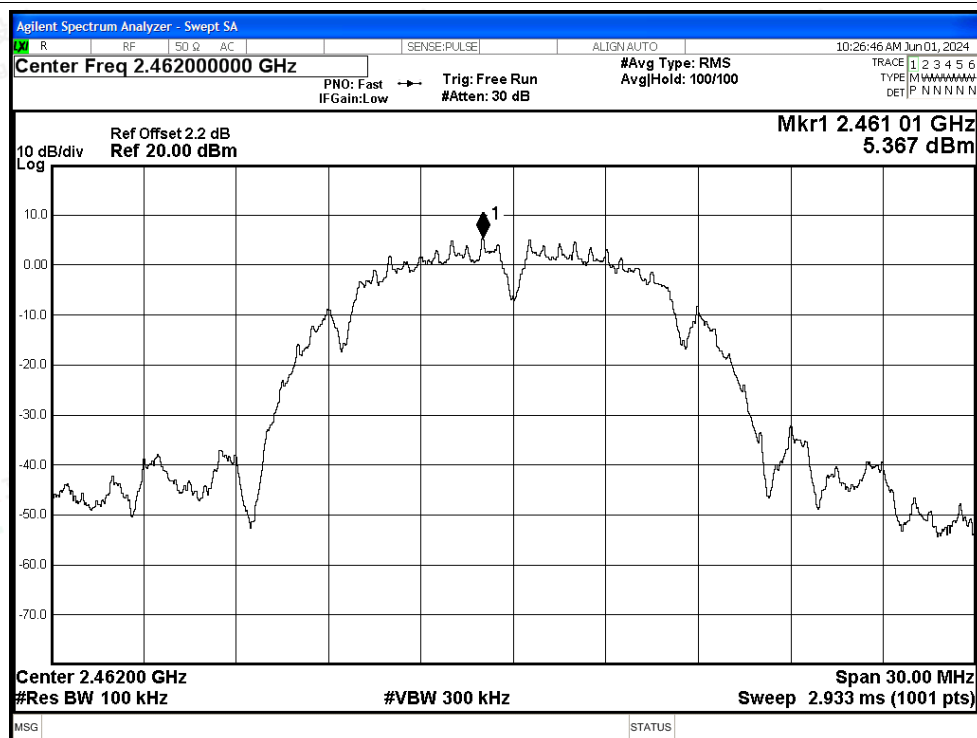
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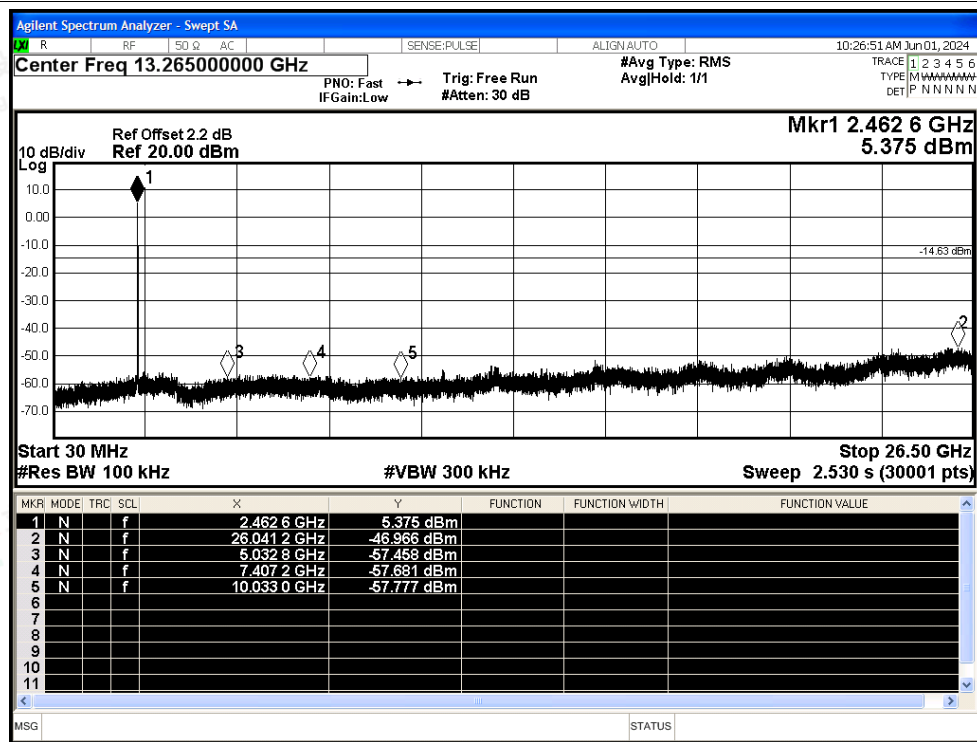
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## Tx. Spurious NVNT b 2462MHz Ant1 Ref



## Tx. Spurious NVNT b 2462MHz Ant1 Emission



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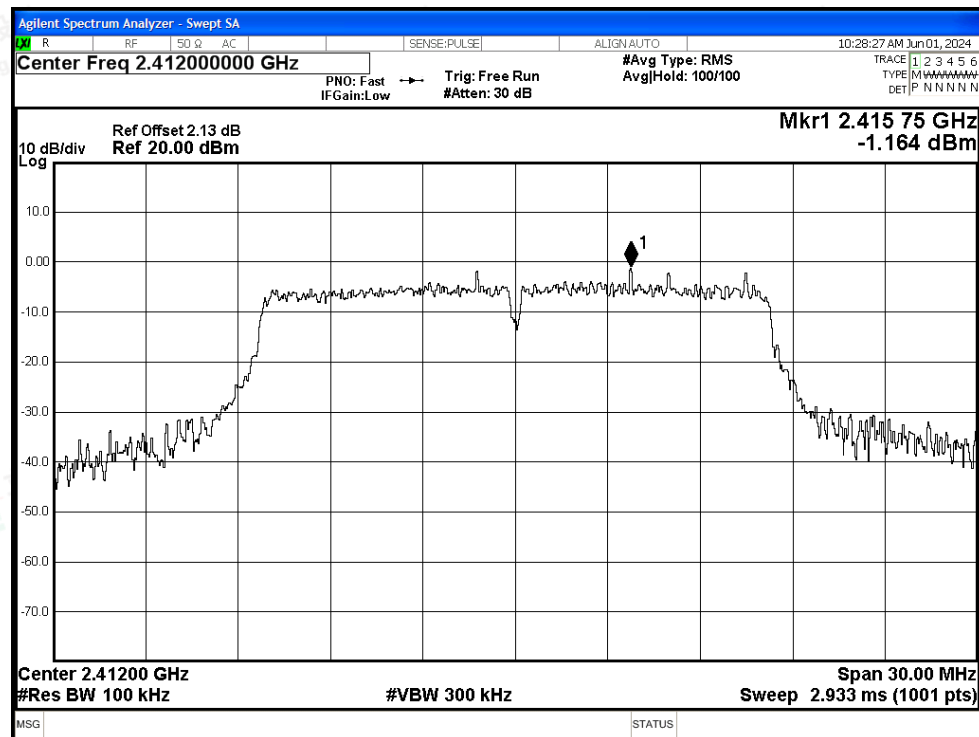
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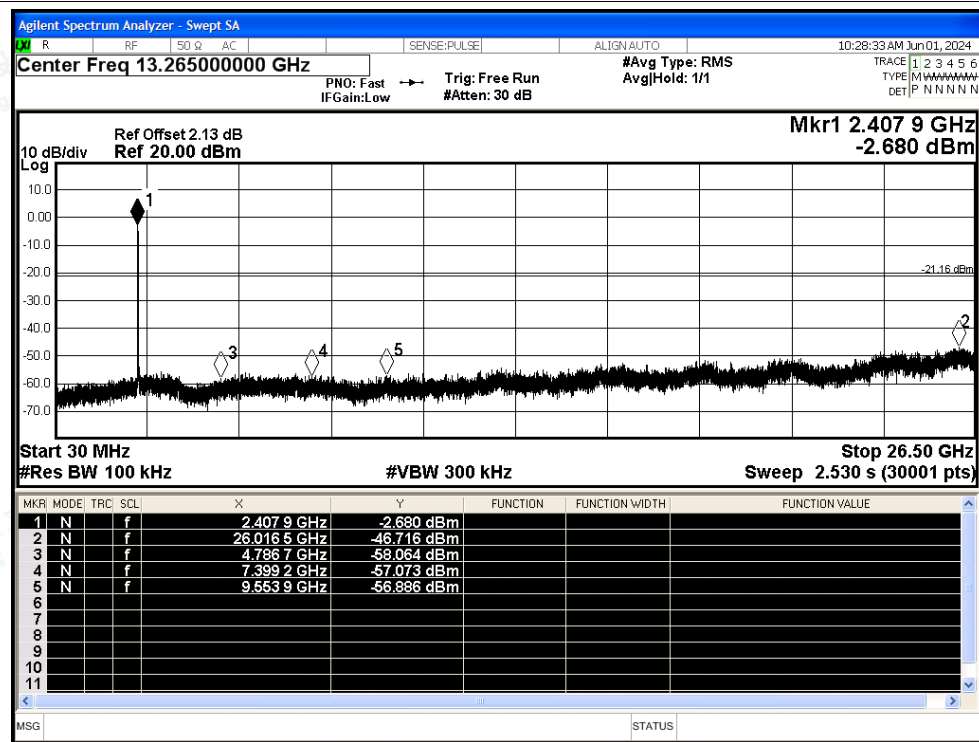
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## Tx. Spurious NVNT g 2412MHz Ant1 Ref



## Tx. Spurious NVNT g 2412MHz Ant1 Emission



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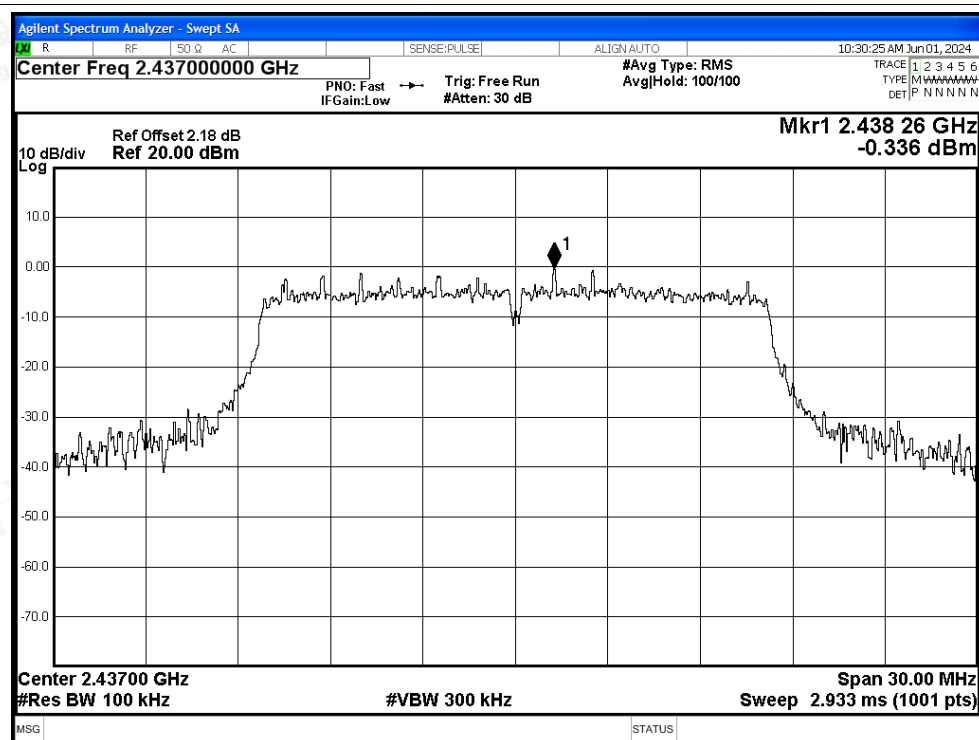
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

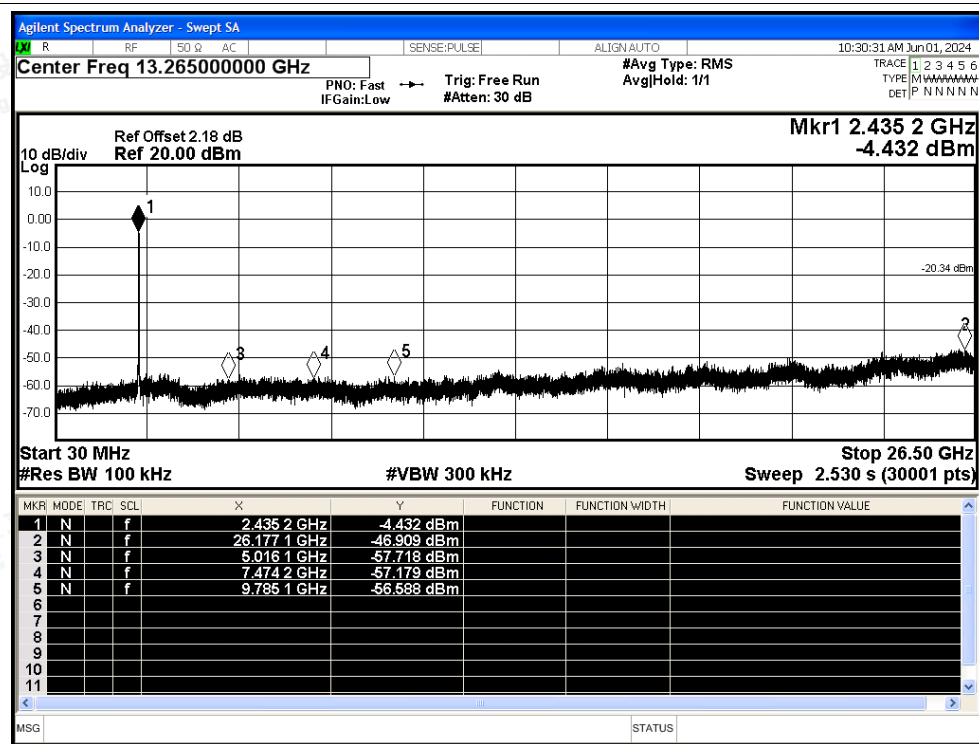
Scan code to check authenticity



## Tx. Spurious NVNT g 2437MHz Ant1 Ref



## Tx. Spurious NVNT g 2437MHz Ant1 Emission



Shenzhen LCS Compliance Testing Laboratory Ltd.

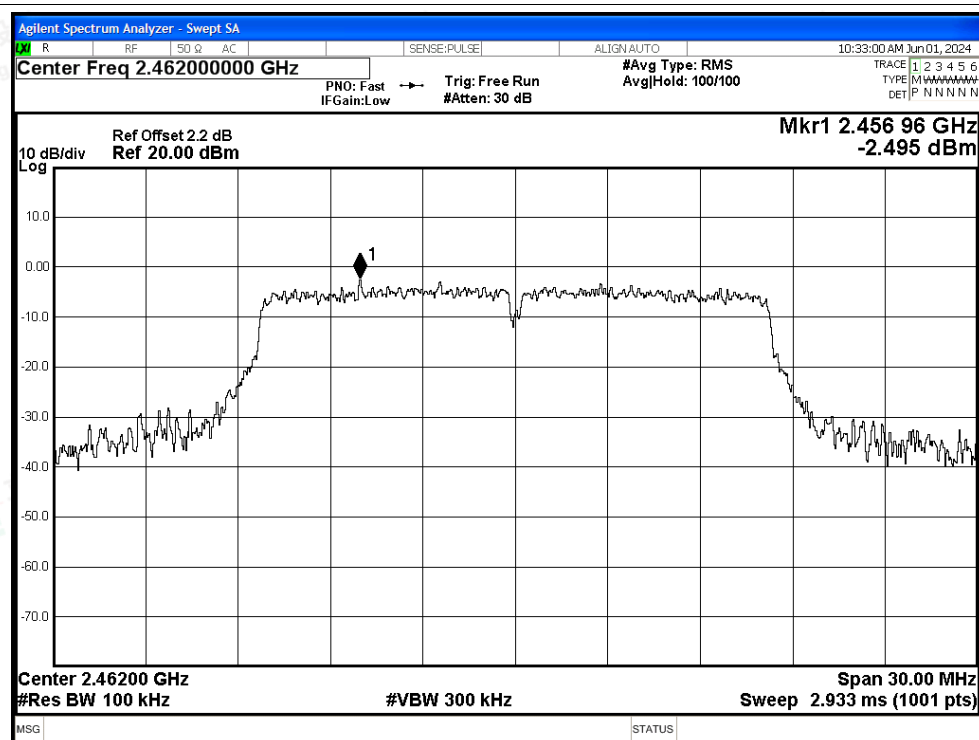
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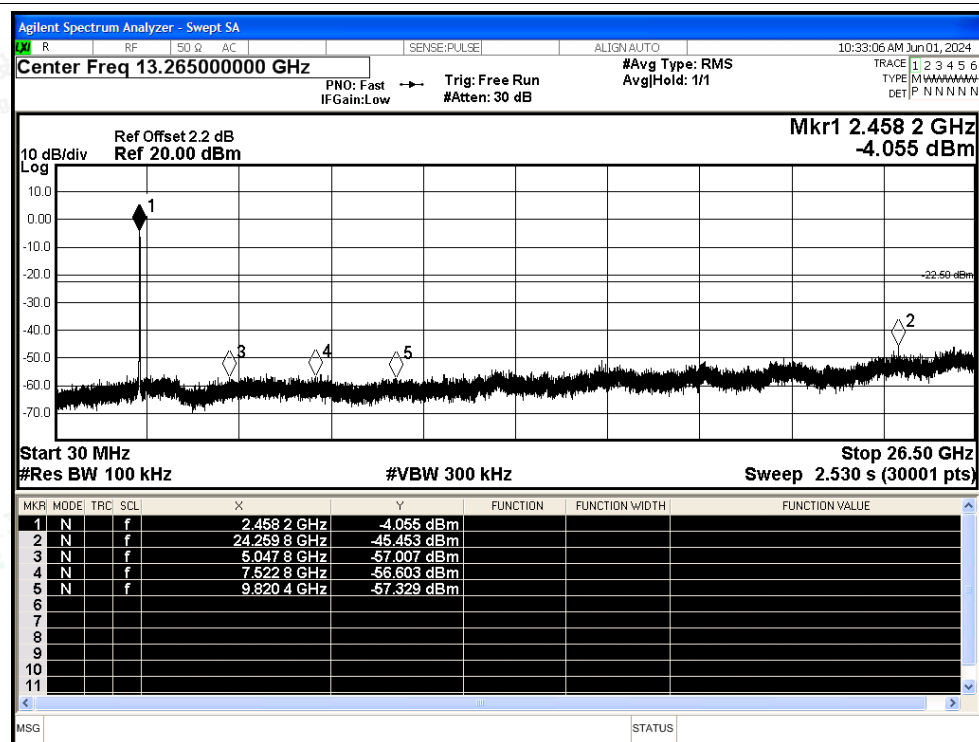
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## Tx. Spurious NVNT g 2462MHz Ant1 Ref

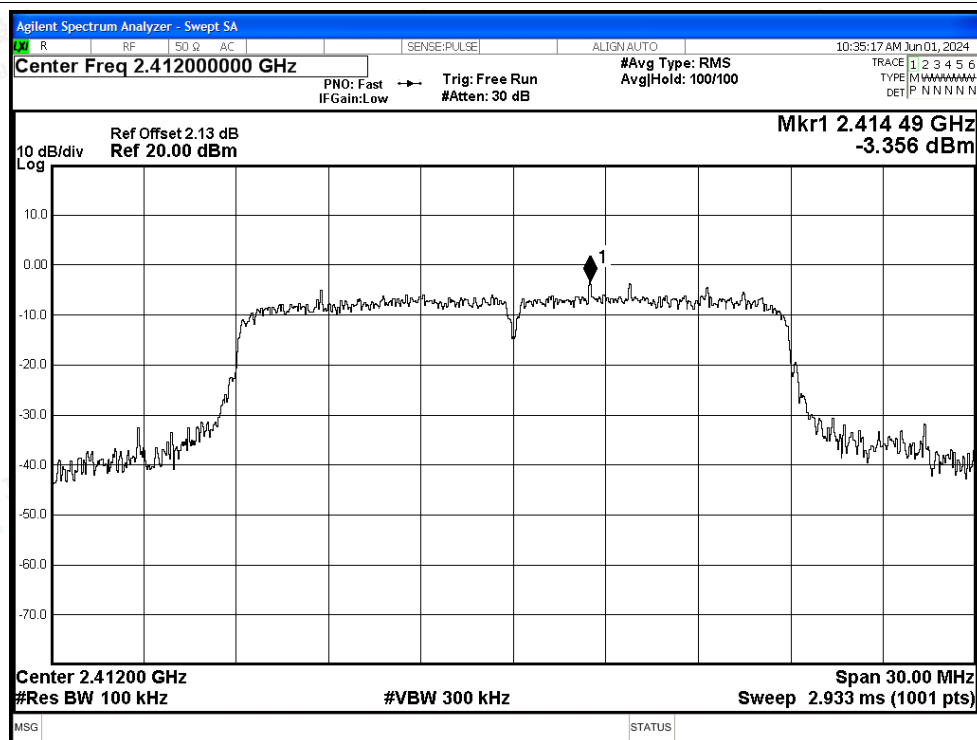


## Tx. Spurious NVNT g 2462MHz Ant1 Emission

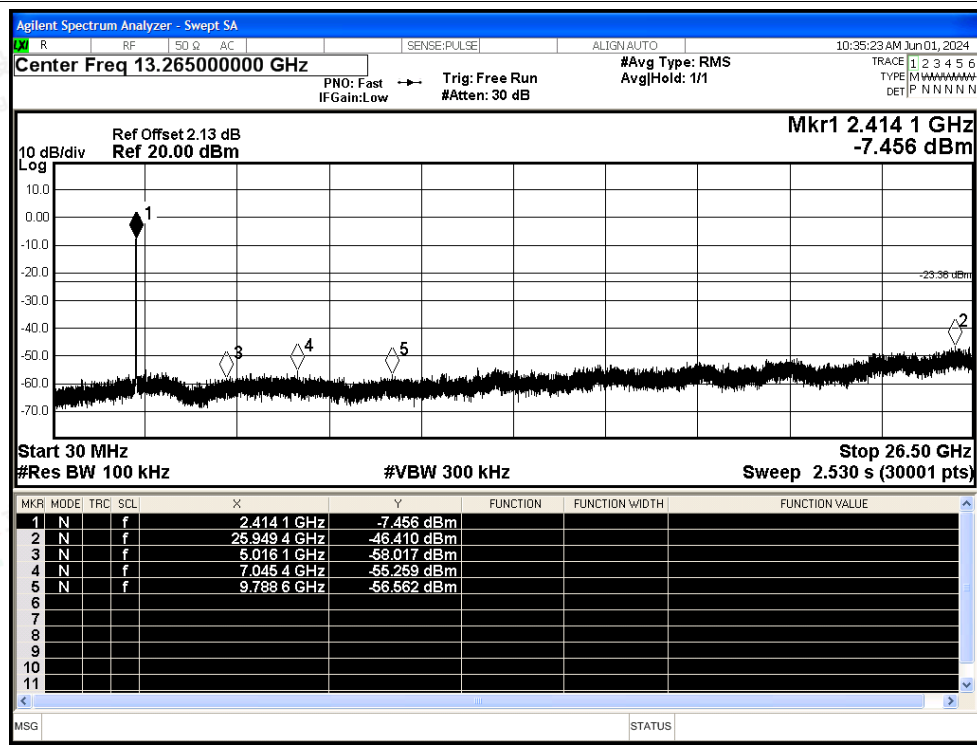




## Tx. Spurious NVNT n20 2412MHz Ant1 Ref



## Tx. Spurious NVNT n20 2412MHz Ant1 Emission



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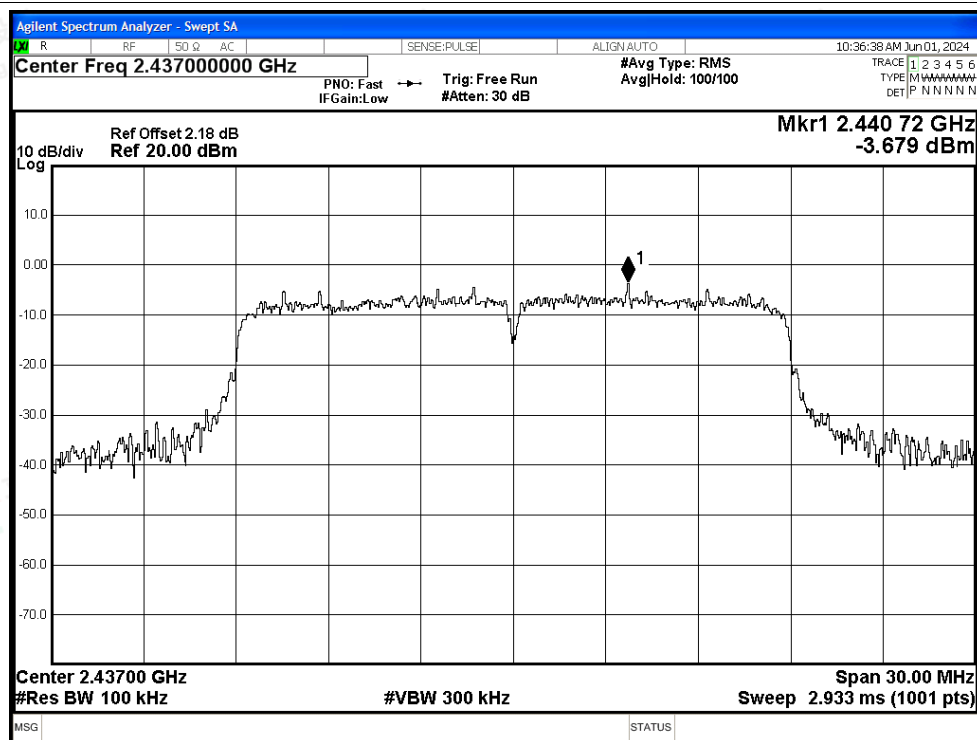
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

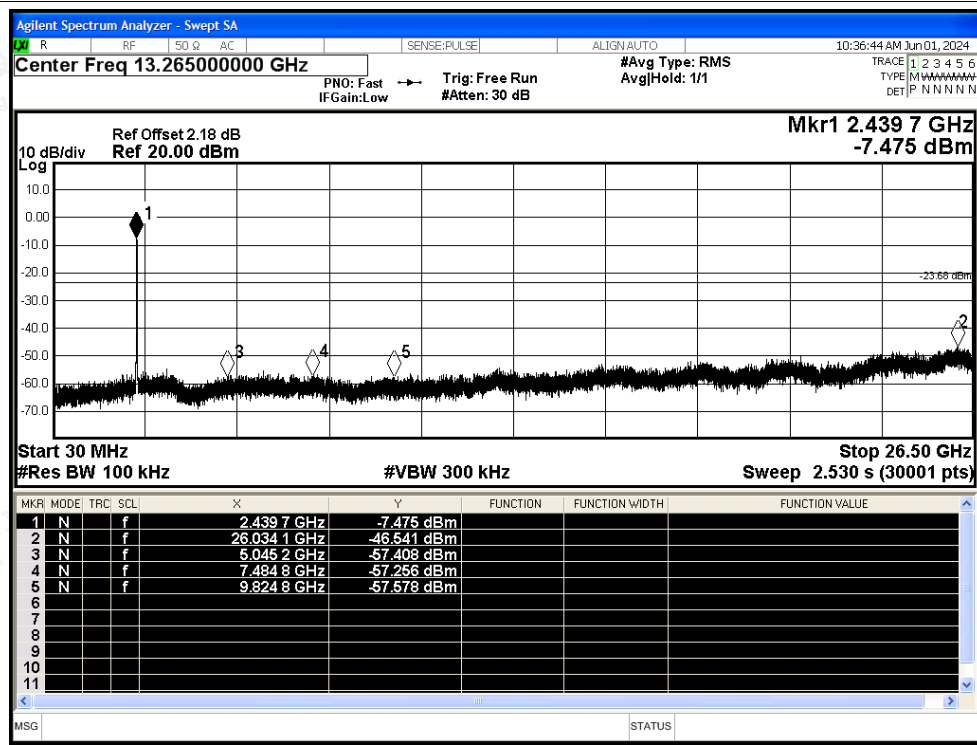
Scan code to check authenticity



## Tx. Spurious NVNT n20 2437MHz Ant1 Ref



## Tx. Spurious NVNT n20 2437MHz Ant1 Emission



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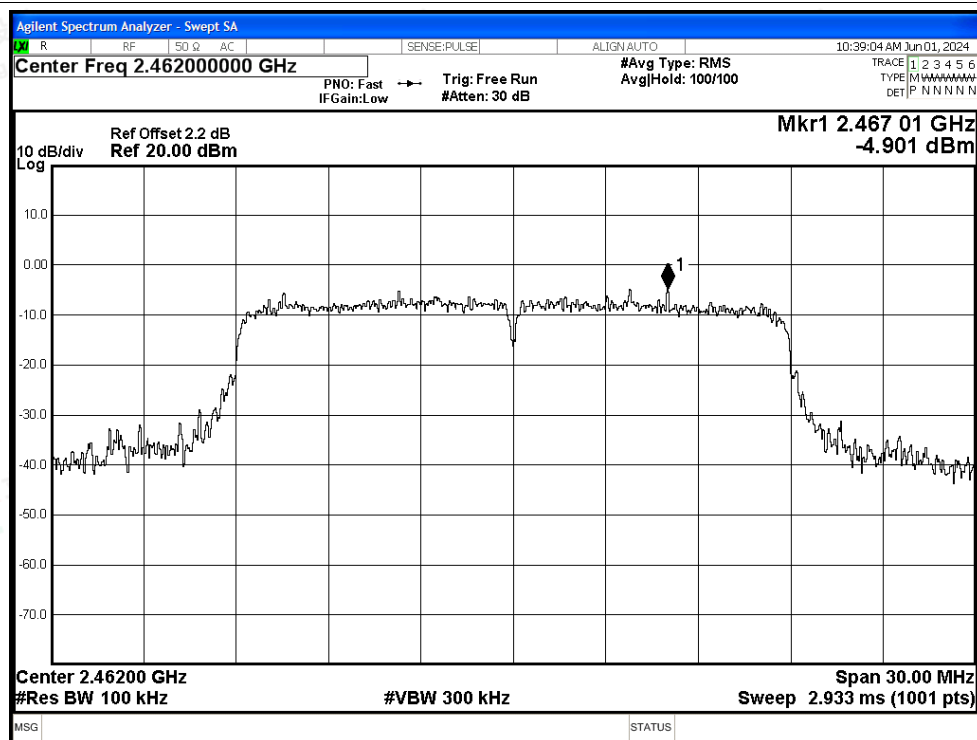
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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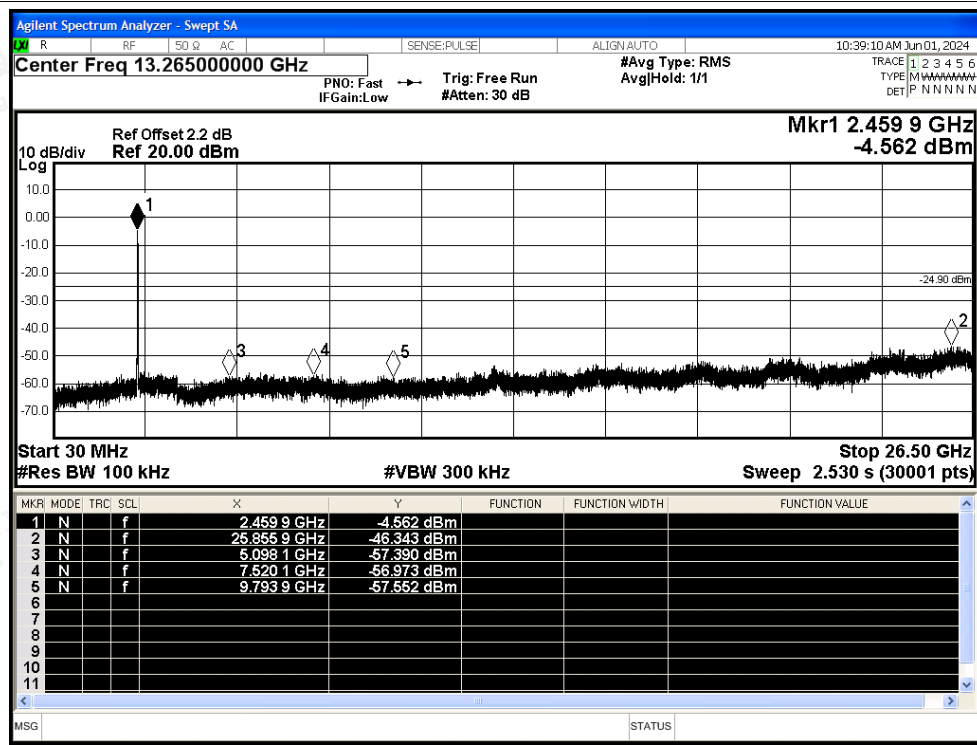
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## Tx. Spurious NVNT n20 2462MHz Ant1 Ref



## Tx. Spurious NVNT n20 2462MHz Ant1 Emission



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## B.6 Duty Cycle

| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|------|-----------------|---------|----------------|------------------------|-----------|
| NVNT      | b    | 2412            | Ant1    | 99.13          | 0                      | 0.15      |
| NVNT      | b    | 2437            | Ant1    | 99.13          | 0                      | 0.15      |
| NVNT      | b    | 2462            | Ant1    | 99.13          | 0                      | 0.15      |
| NVNT      | g    | 2412            | Ant1    | 97.68          | 0.1                    | 0.37      |
| NVNT      | g    | 2437            | Ant1    | 97.75          | 0.1                    | 0.37      |
| NVNT      | g    | 2462            | Ant1    | 97.68          | 0.1                    | 0.37      |
| NVNT      | n20  | 2412            | Ant1    | 97.33          | 0.12                   | 0.44      |
| NVNT      | n20  | 2437            | Ant1    | 97.33          | 0.12                   | 0.44      |
| NVNT      | n20  | 2462            | Ant1    | 97.33          | 0.12                   | 0.44      |

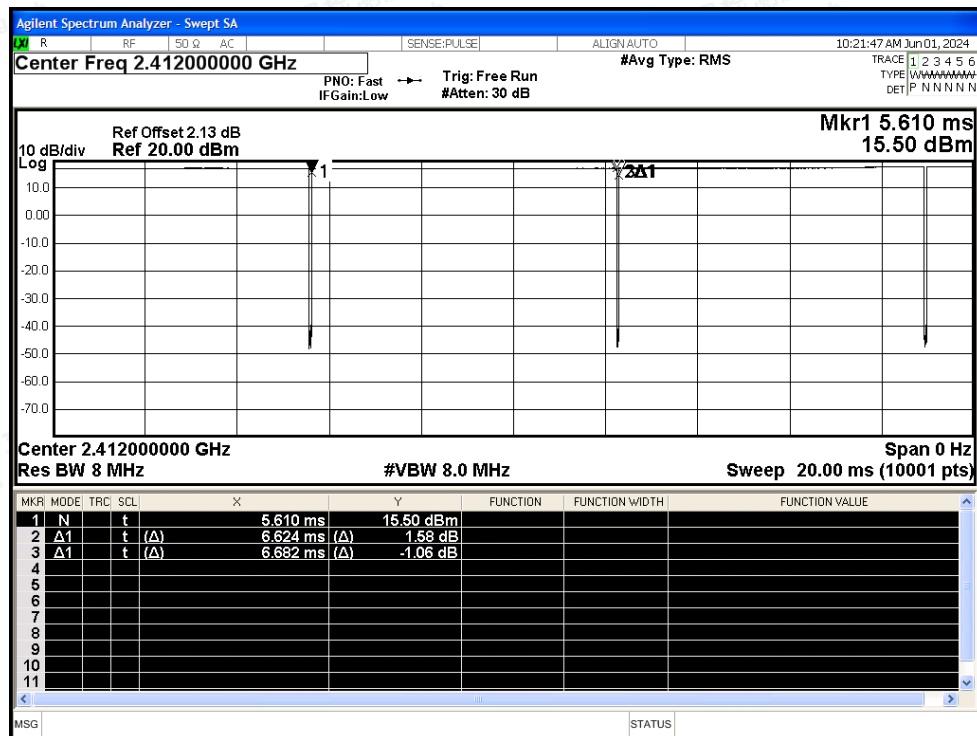


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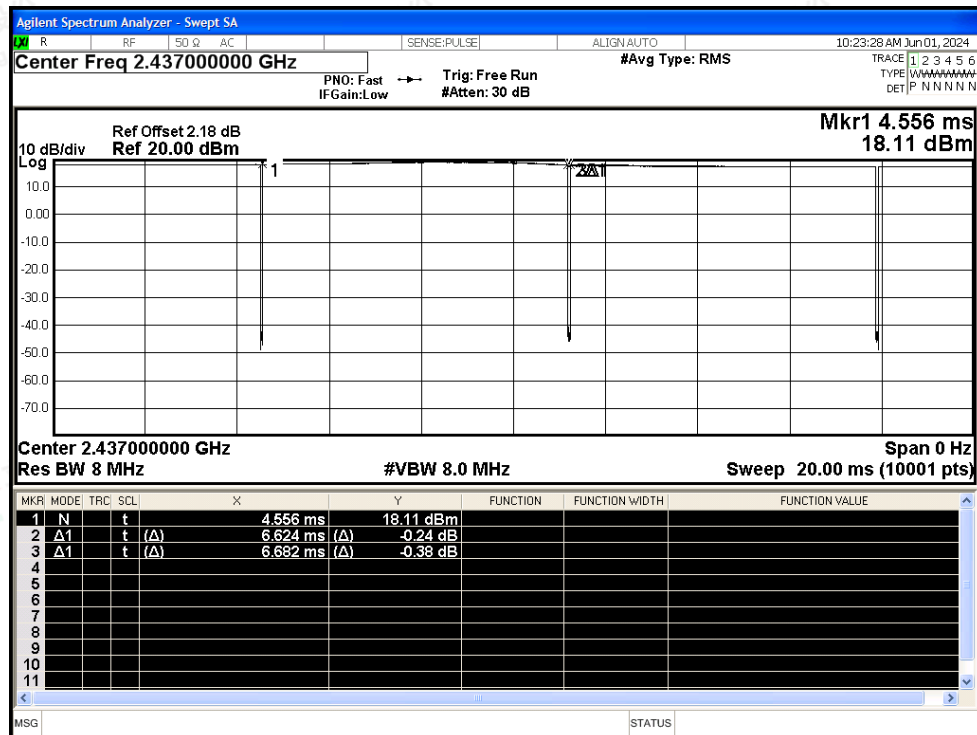


## Test Graphs

## Duty Cycle NVNT b 2412MHz Ant1



## Duty Cycle NVNT b 2437MHz Ant1



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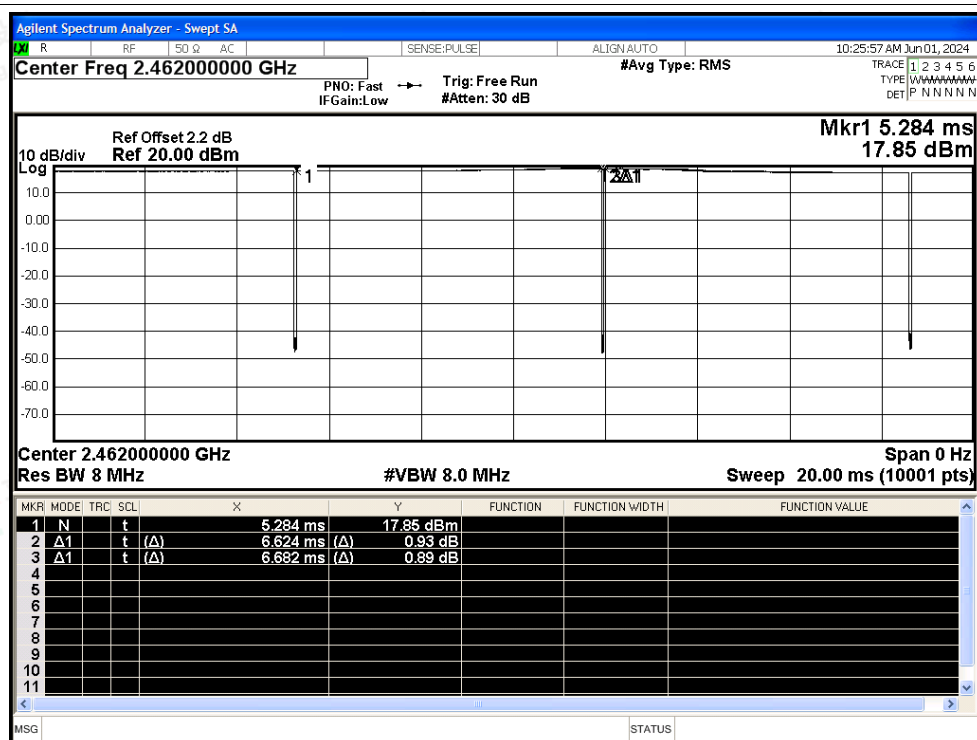
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

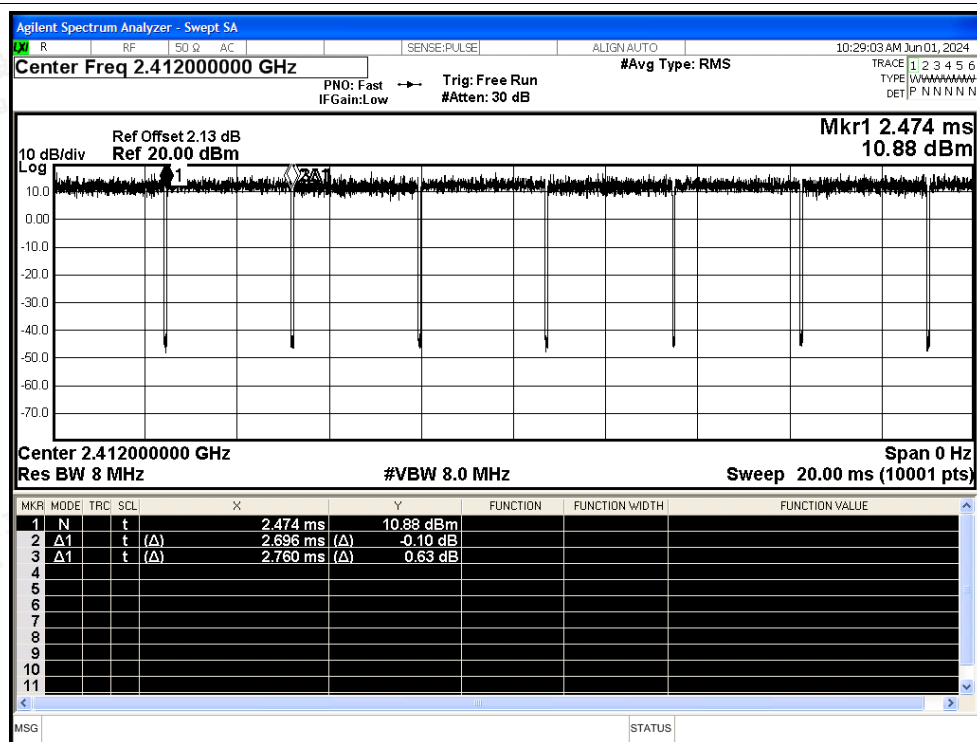
Scan code to check authenticity



## Duty Cycle NVNT b 2462MHz Ant1

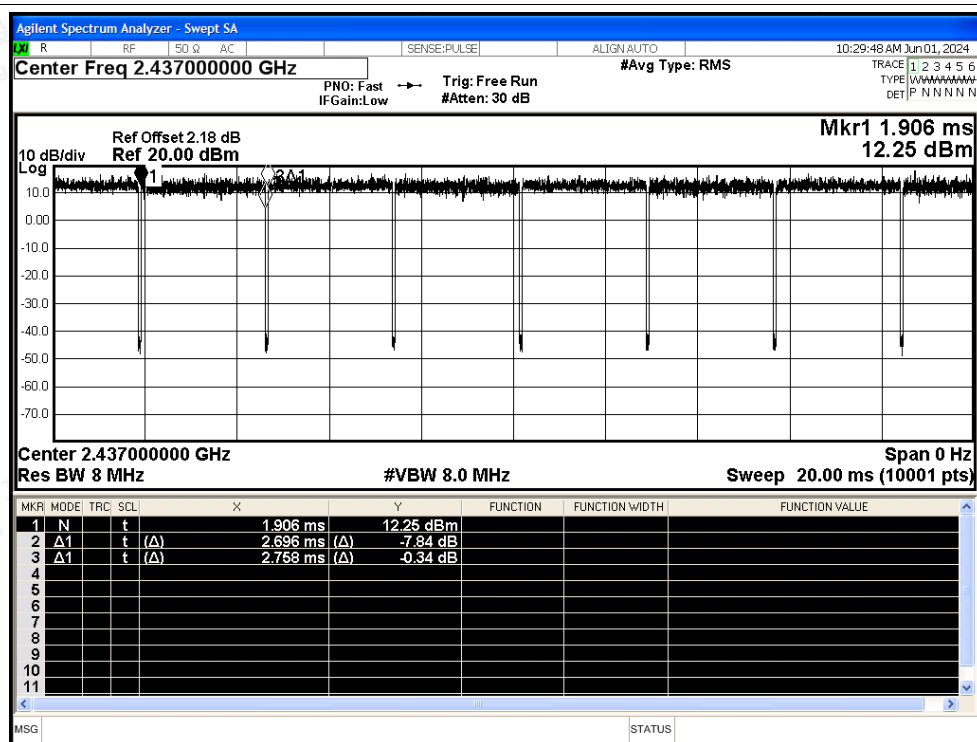


## Duty Cycle NVNT g 2412MHz Ant1

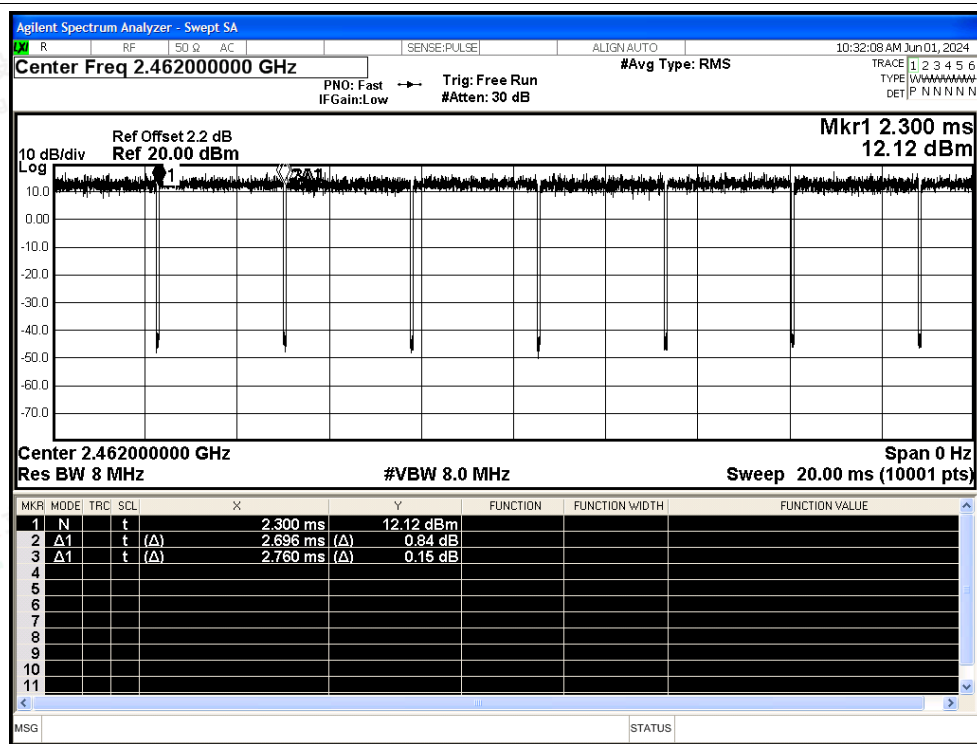




## Duty Cycle NVNT g 2437MHz Ant1



## Duty Cycle NVNT g 2462MHz Ant1



Shenzhen LCS Compliance Testing Laboratory Ltd.

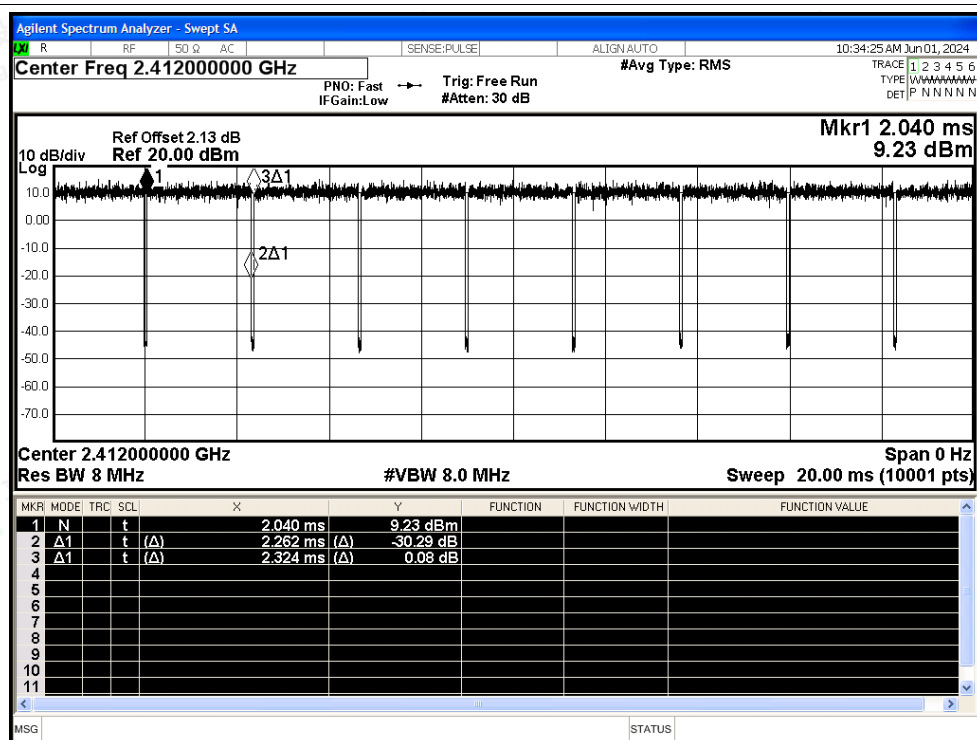
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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

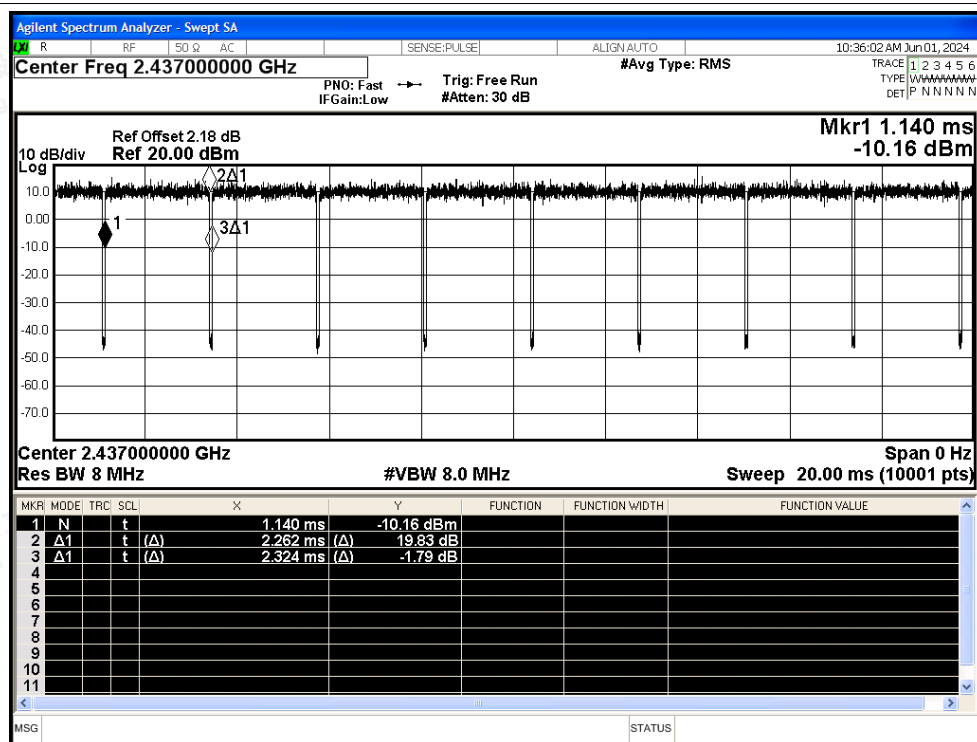
Scan code to check authenticity



## Duty Cycle NVNT n20 2412MHz Ant1



## Duty Cycle NVNT n20 2437MHz Ant1

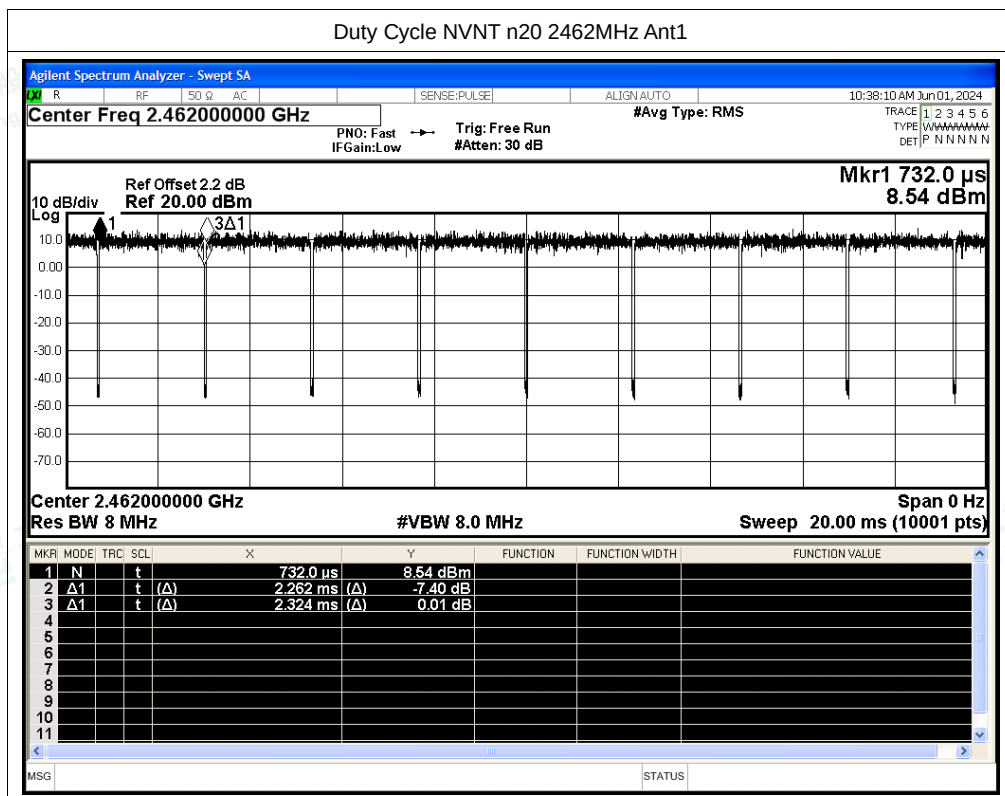


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## B.7 Restrict Band

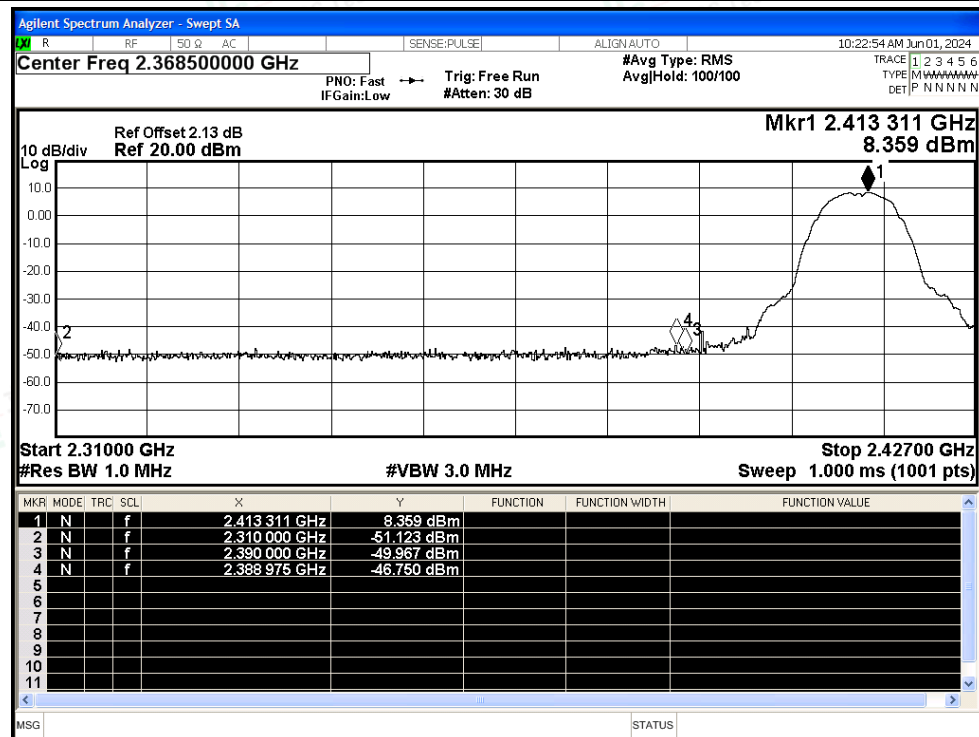
| Condition | Mode | Frequency (MHz) | Antenna | Spur Freq (MHz) | Power (dBm) | Gain (dBi) | Duty Factor (dB) | E (dBuV/m) | Detector | Limit (dBuV/m) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|------------|------------------|------------|----------|----------------|---------|
| NVNT      | b    | 2412            | Ant1    | 2310            | -51.12      | 2.21       | -                | 46.34      | Peak     | 74             | Pass    |
| NVNT      | b    | 2412            | Ant1    | 2310            | -58.46      | 2.21       | 0                | 39         | Average  | 54             | Pass    |
| NVNT      | b    | 2412            | Ant1    | 2388.975        | -46.75      | 2.21       | -                | 50.71      | Peak     | 74             | Pass    |
| NVNT      | b    | 2412            | Ant1    | 2387.454        | -56.27      | 2.21       | 0                | 41.19      | Average  | 54             | Pass    |
| NVNT      | b    | 2412            | Ant1    | 2390            | -49.97      | 2.21       | -                | 47.49      | Peak     | 74             | Pass    |
| NVNT      | b    | 2412            | Ant1    | 2390            | -56.55      | 2.21       | 0                | 40.91      | Average  | 54             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2483.5          | -48.68      | 2.21       | -                | 48.78      | Peak     | 74             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2483.5          | -55.91      | 2.21       | 0                | 41.55      | Average  | 54             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2484.047        | -40.13      | 2.21       | -                | 57.33      | Peak     | 74             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2484.206        | -55.31      | 2.21       | 0                | 42.15      | Average  | 54             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2500            | -48.42      | 2.21       | -                | 49.04      | Peak     | 74             | Pass    |
| NVNT      | b    | 2462            | Ant1    | 2500            | -58.63      | 2.21       | 0                | 38.83      | Average  | 54             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2310            | -51.33      | 2.21       | -                | 46.13      | Peak     | 74             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2310            | -59.32      | 2.21       | 0.25             | 38.39      | Average  | 54             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2388.975        | -33.93      | 2.21       | -                | 63.53      | Peak     | 74             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2389.677        | -51.02      | 2.21       | 0.25             | 46.69      | Average  | 54             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2390            | -38.41      | 2.21       | -                | 59.05      | Peak     | 74             | Pass    |
| NVNT      | g    | 2412            | Ant1    | 2390            | -51.57      | 2.21       | 0.25             | 46.14      | Average  | 54             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2483.5          | -41.85      | 2.21       | -                | 55.61      | Peak     | 74             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2483.5          | -53.3       | 2.21       | 0.1              | 44.26      | Average  | 54             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2484.524        | -36.79      | 2.21       | -                | 60.67      | Peak     | 74             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2484.312        | -53.14      | 2.21       | 0.1              | 44.42      | Average  | 54             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2500            | -50.48      | 2.21       | -                | 46.98      | Peak     | 74             | Pass    |
| NVNT      | g    | 2462            | Ant1    | 2500            | -58.02      | 2.21       | 0.1              | 39.54      | Average  | 54             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2310            | -51         | 2.21       | -                | 46.46      | Peak     | 74             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2310            | -58.54      | 2.21       | 0.12             | 39.04      | Average  | 54             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2389.677        | -34.45      | 2.21       | -                | 63.01      | Peak     | 74             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2389.677        | -51.62      | 2.21       | 0.12             | 45.96      | Average  | 54             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2390            | -35.97      | 2.21       | -                | 61.49      | Peak     | 74             | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 2390            | -52.63      | 2.21       | 0.12             | 44.95      | Average  | 54             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2483.5          | -42.28      | 2.21       | -                | 55.18      | Peak     | 74             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2483.5          | -52.35      | 2.21       | 0.12             | 45.23      | Average  | 54             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2483.835        | -36.09      | 2.21       | -                | 61.37      | Peak     | 74             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2483.517        | -52.35      | 2.21       | 0.12             | 45.23      | Average  | 54             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2500            | -50.69      | 2.21       | -                | 46.77      | Peak     | 74             | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 2500            | -58.36      | 2.21       | 0.12             | 39.22      | Average  | 54             | Pass    |



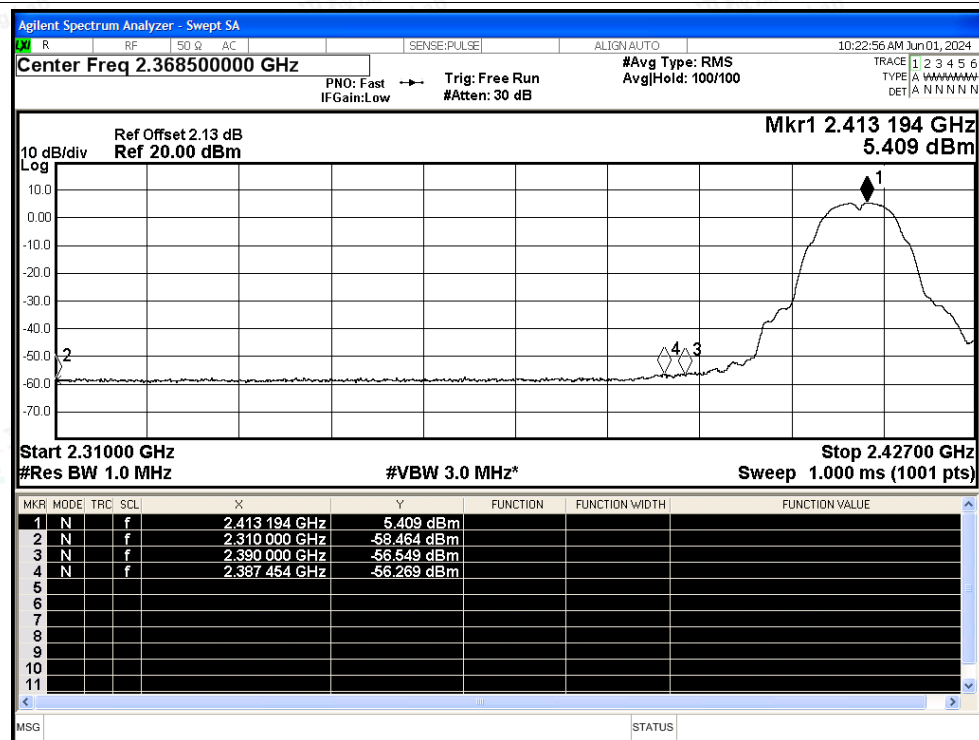


## Test Graphs

## Restrict Band NVNT b 2412MHz Ant1 Peak



## Restrict Band NVNT b 2412MHz Ant1 Average



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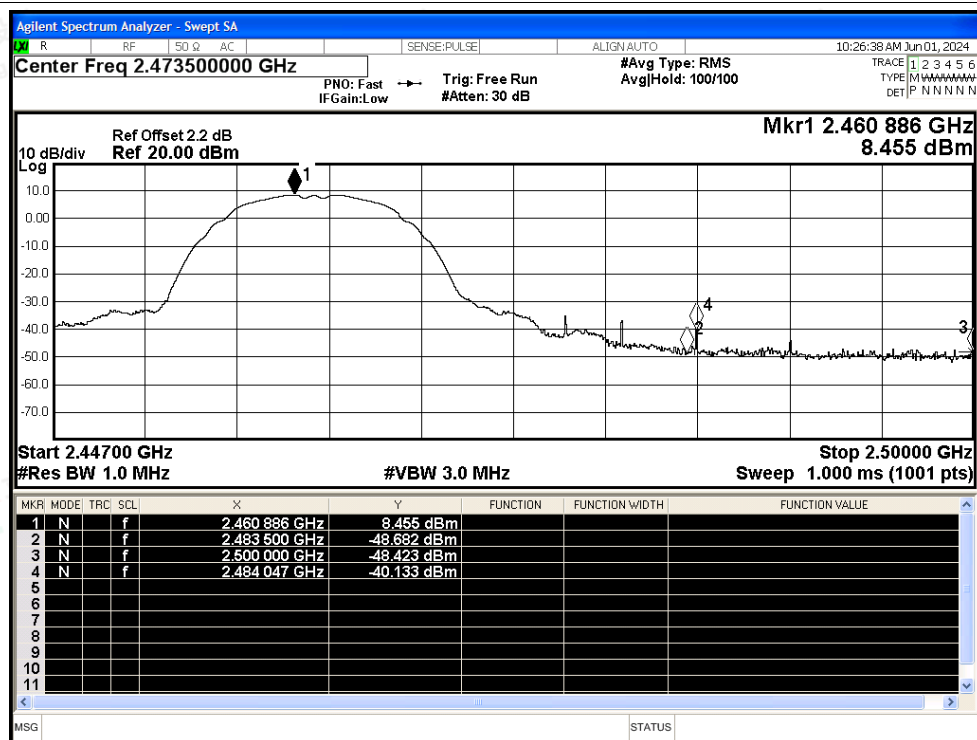
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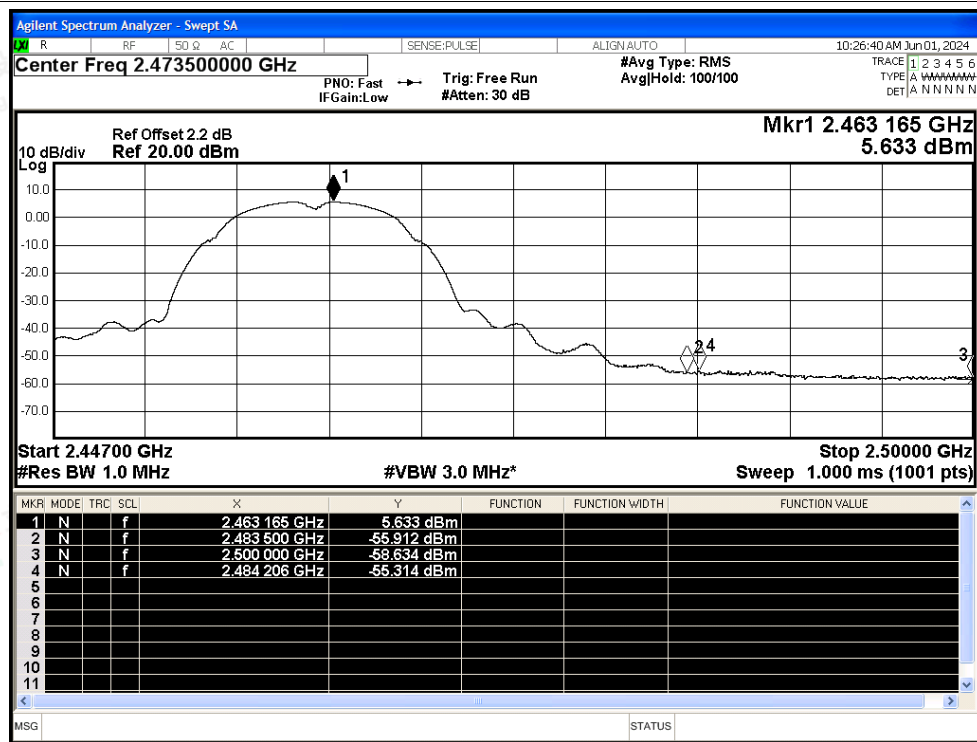
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## Restrict Band NVNT b 2462MHz Ant1 Peak



## Restrict Band NVNT b 2462MHz Ant1 Average



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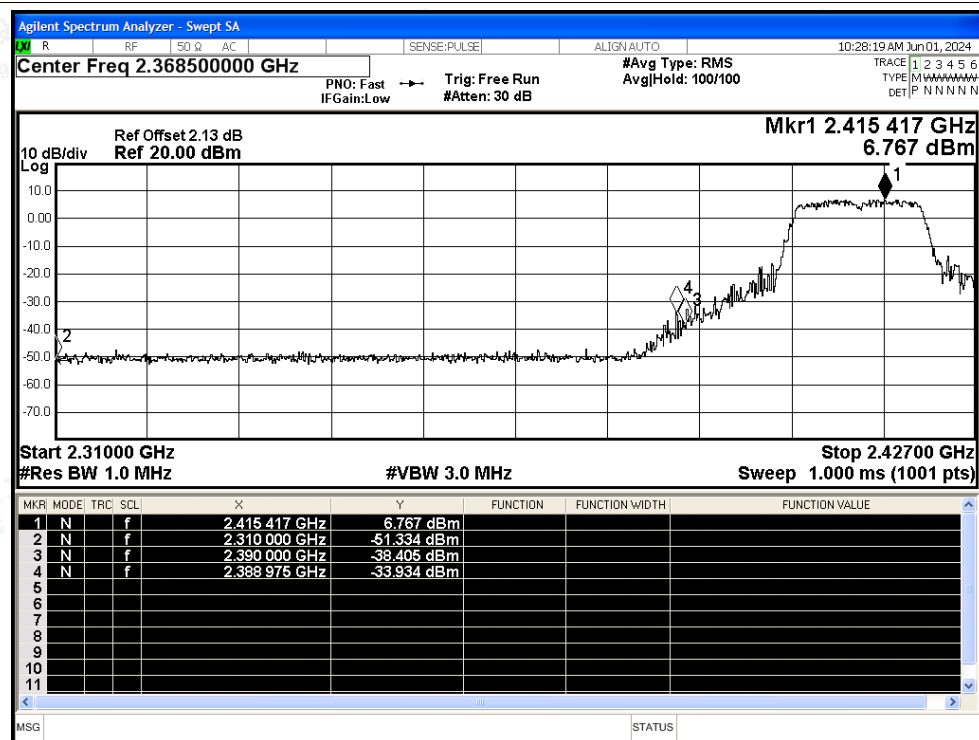
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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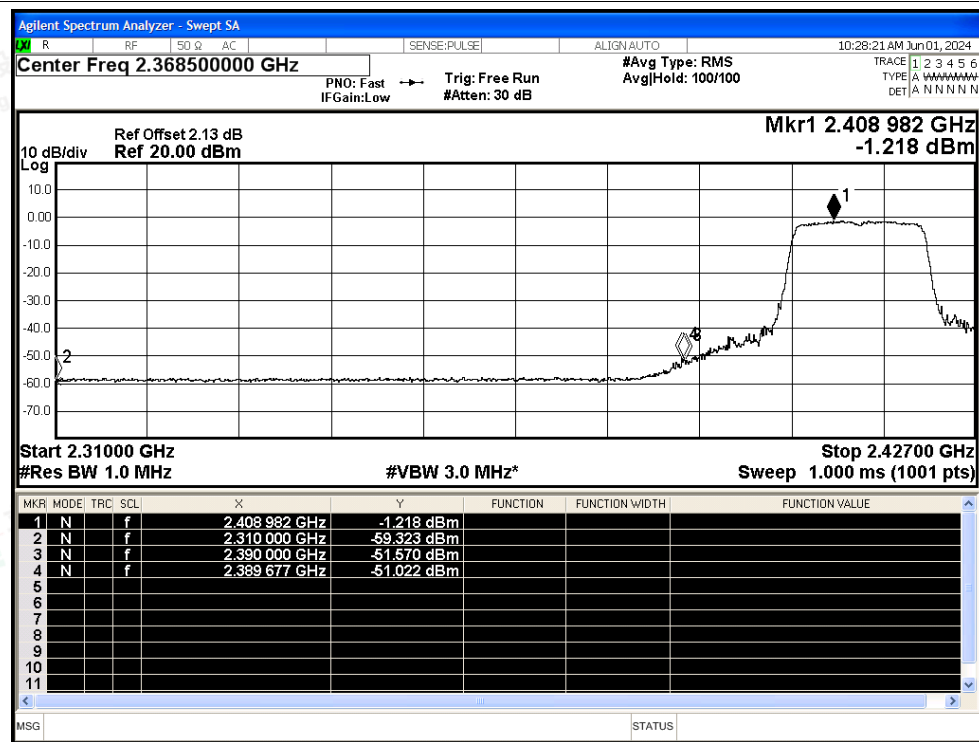
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## Restrict Band NVNT g 2412MHz Ant1 Peak

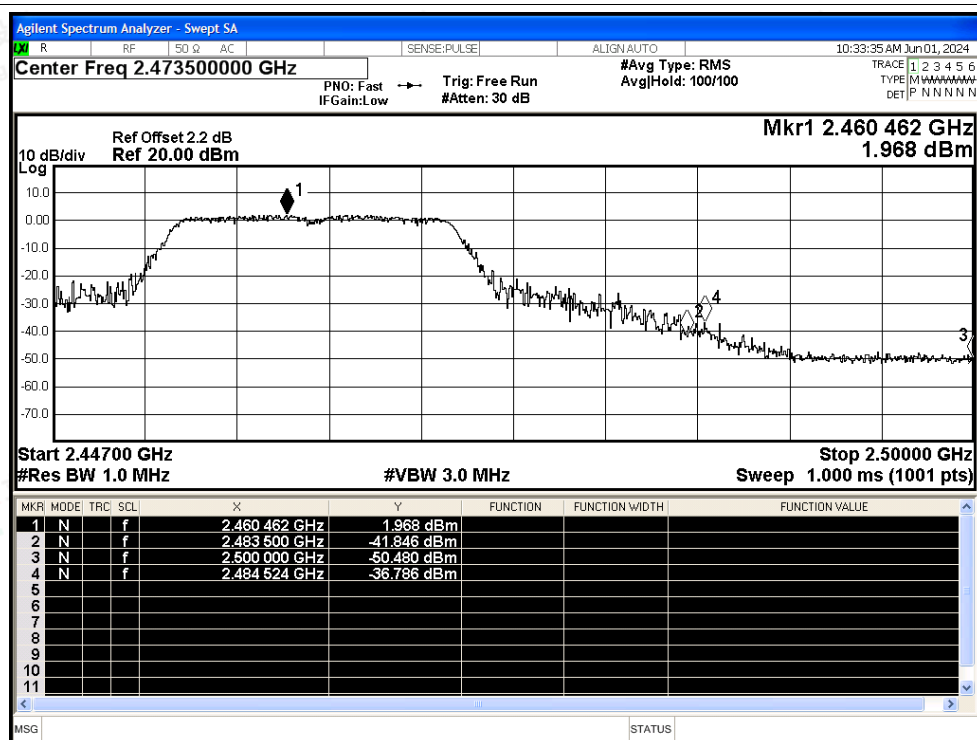


## Restrict Band NVNT g 2412MHz Ant1 Average

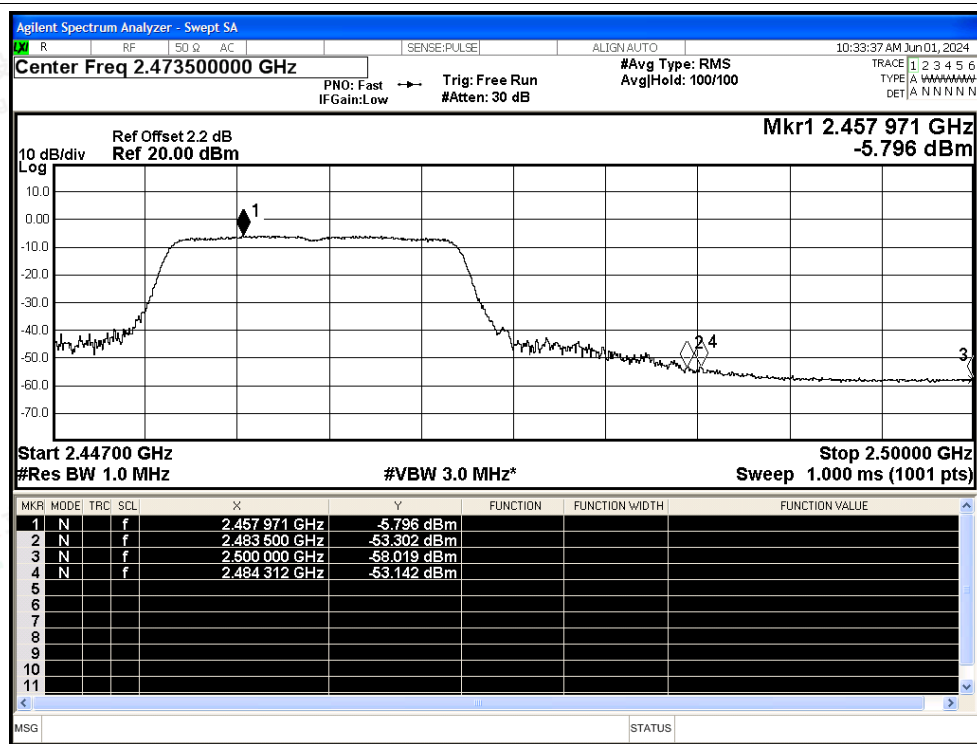




## Restrict Band NVNT g 2462MHz Ant1 Peak



## Restrict Band NVNT g 2462MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

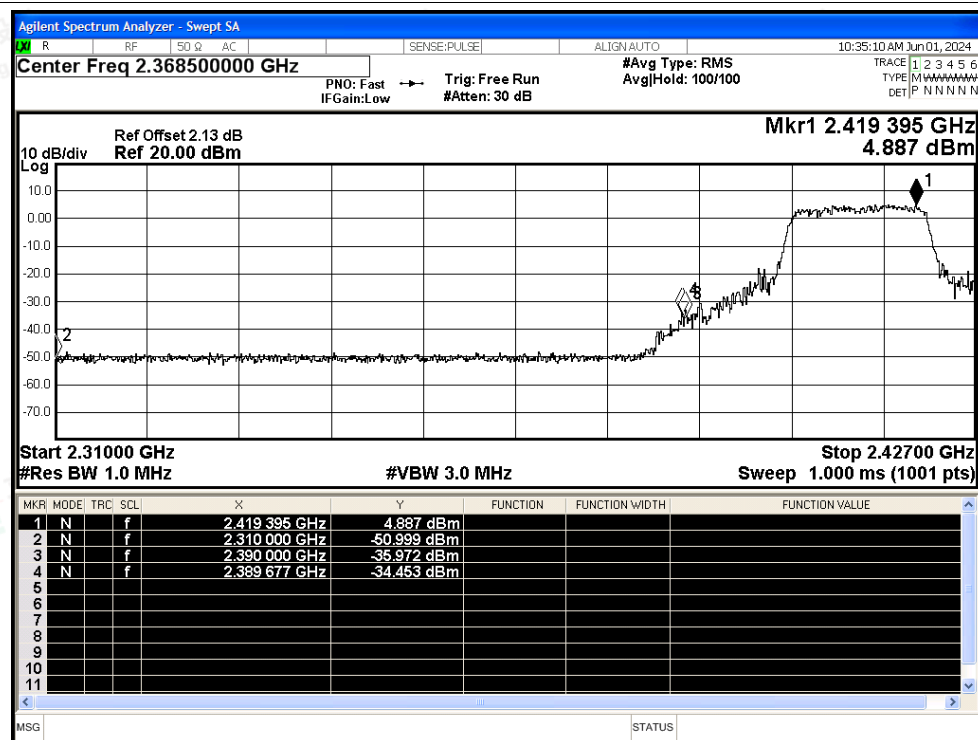
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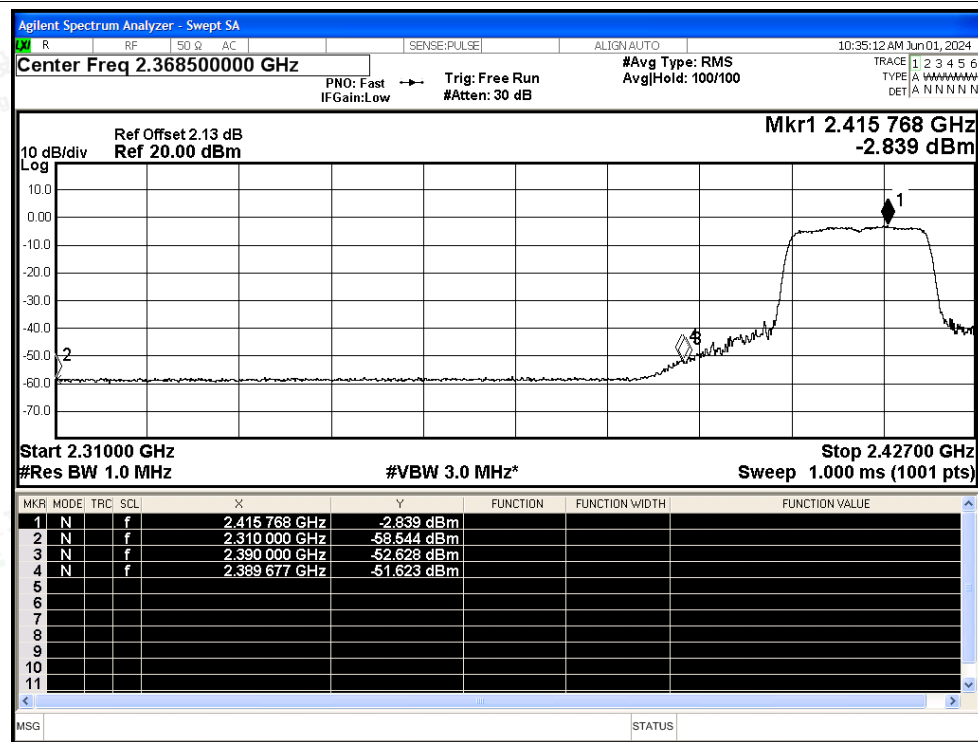
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## Restrict Band NVNT n20 2412MHz Ant1 Peak



## Restrict Band NVNT n20 2412MHz Ant1 Average



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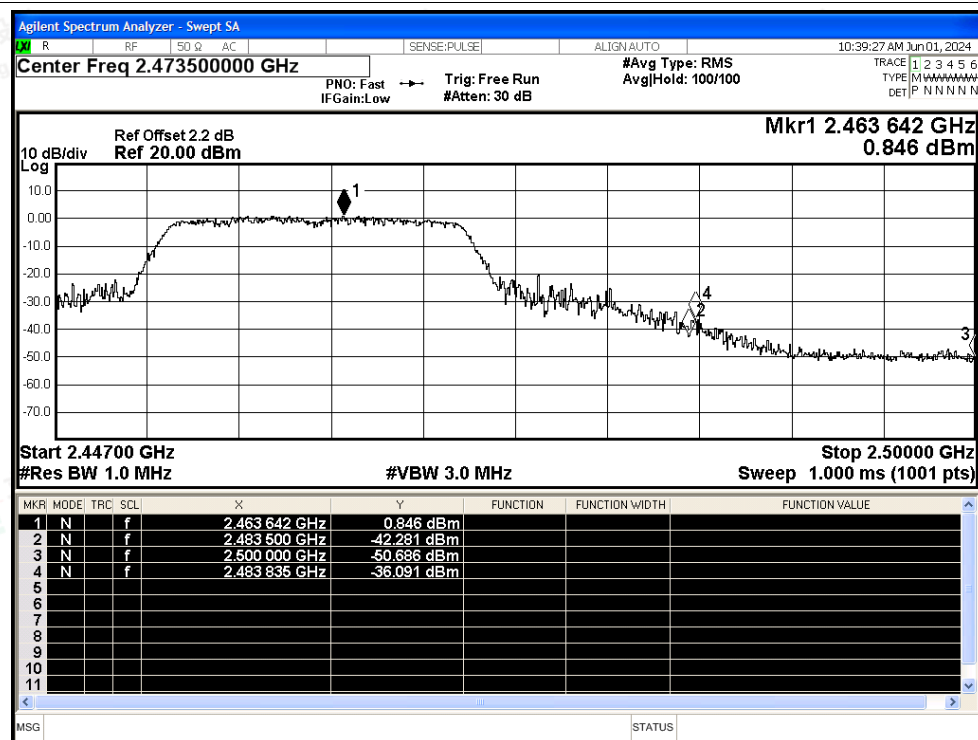
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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## Restrict Band NVNT n20 2462MHz Ant1 Peak



## Restrict Band NVNT n20 2462MHz Ant1 Average

