



## Appendix B

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

Product Name: Zeus Oasis Plus Fountain

Test Model: 96423

#### Environmental Conditions

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



Shenzhen LCS Compliance Testing Laboratory Ltd.  
Add: 101, 201 Bldg A & 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



## B.1 -6dB Bandwidth

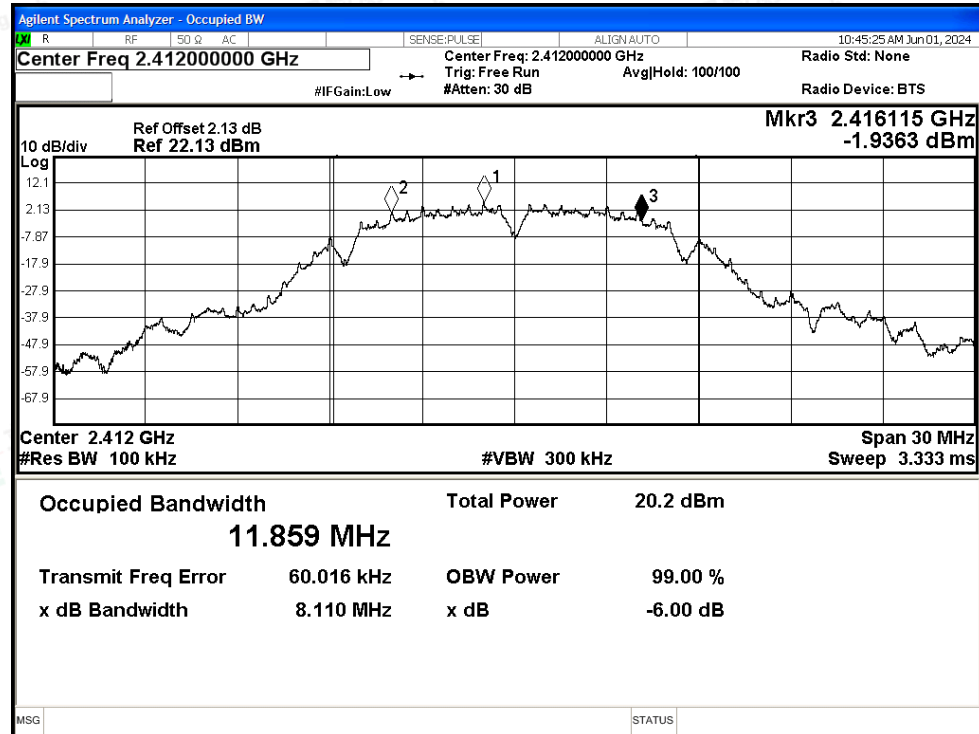
| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | b    | 2412            | Ant1    | 8.11                  | $\geq 0.5$                  | Pass    |
| NVNT      | b    | 2437            | Ant1    | 8.55                  | $\geq 0.5$                  | Pass    |
| NVNT      | b    | 2462            | Ant1    | 8.496                 | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2412            | Ant1    | 16.3                  | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2437            | Ant1    | 16.312                | $\geq 0.5$                  | Pass    |
| NVNT      | g    | 2462            | Ant1    | 16.334                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2412            | Ant1    | 17.138                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2437            | Ant1    | 17.166                | $\geq 0.5$                  | Pass    |
| NVNT      | n20  | 2462            | Ant1    | 17.113                | $\geq 0.5$                  | Pass    |



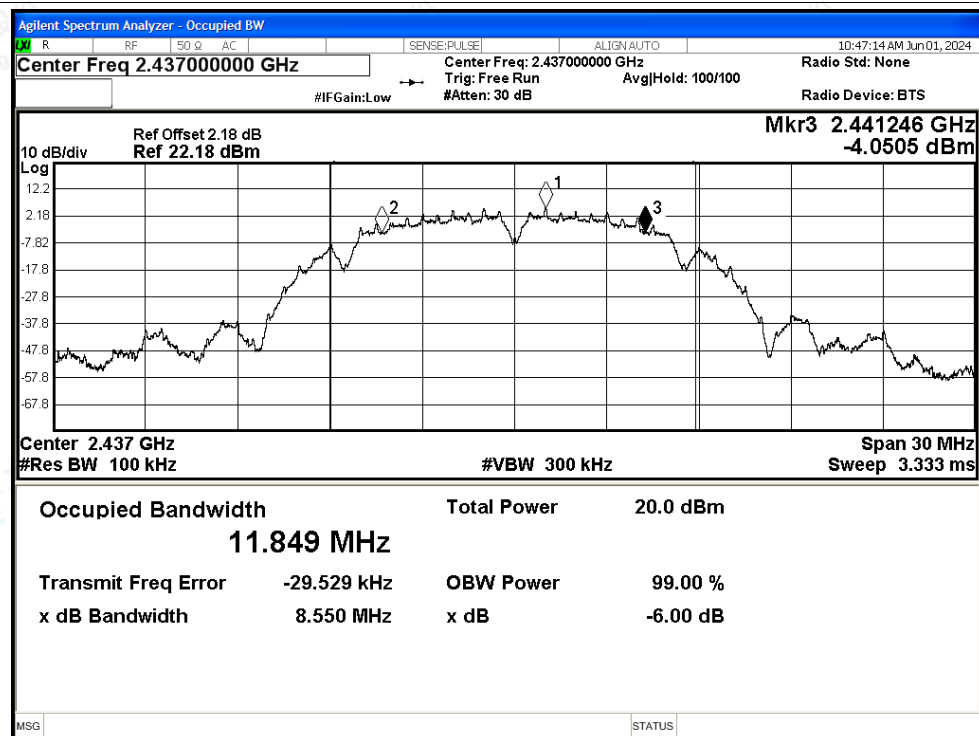


## Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1

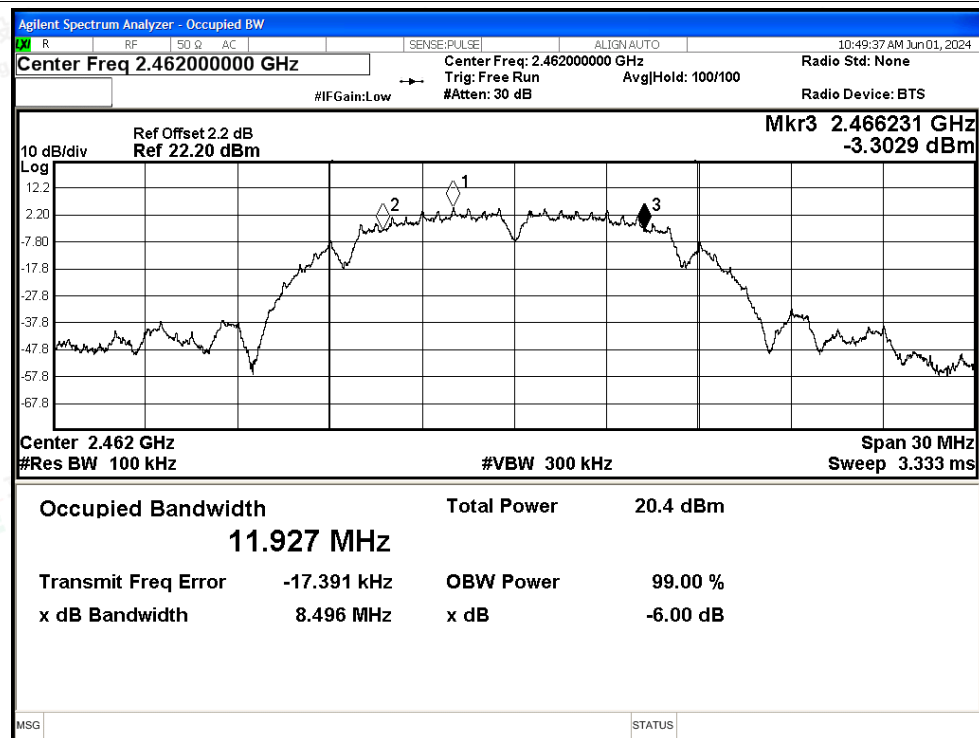


-6dB Bandwidth NVNT b 2437MHz Ant1

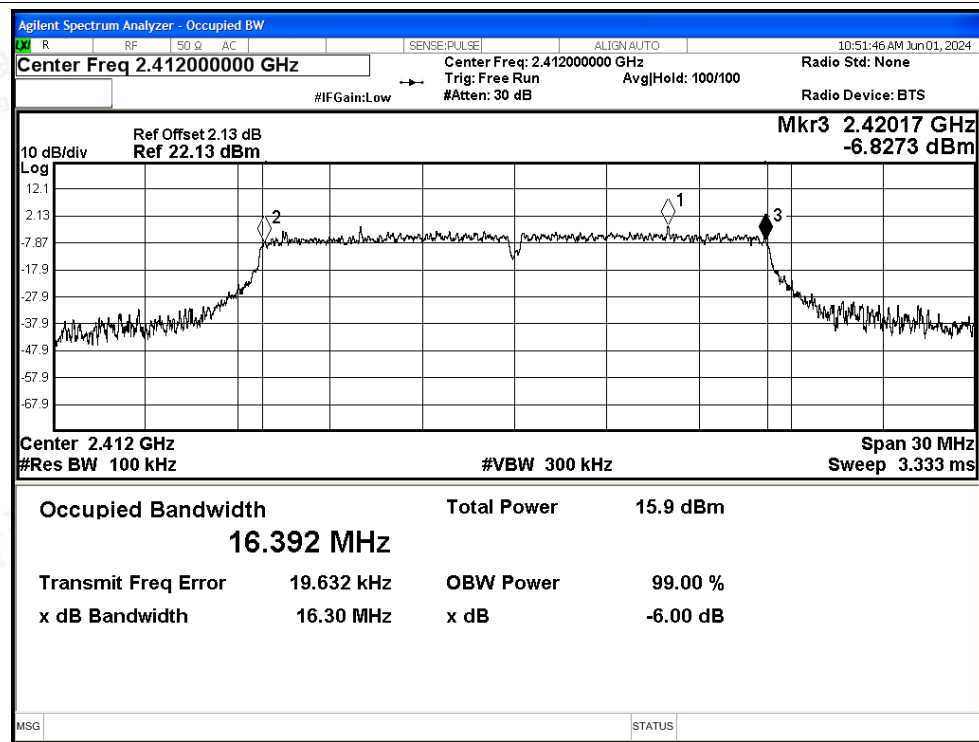




## -6dB Bandwidth NVNT b 2462MHz Ant1

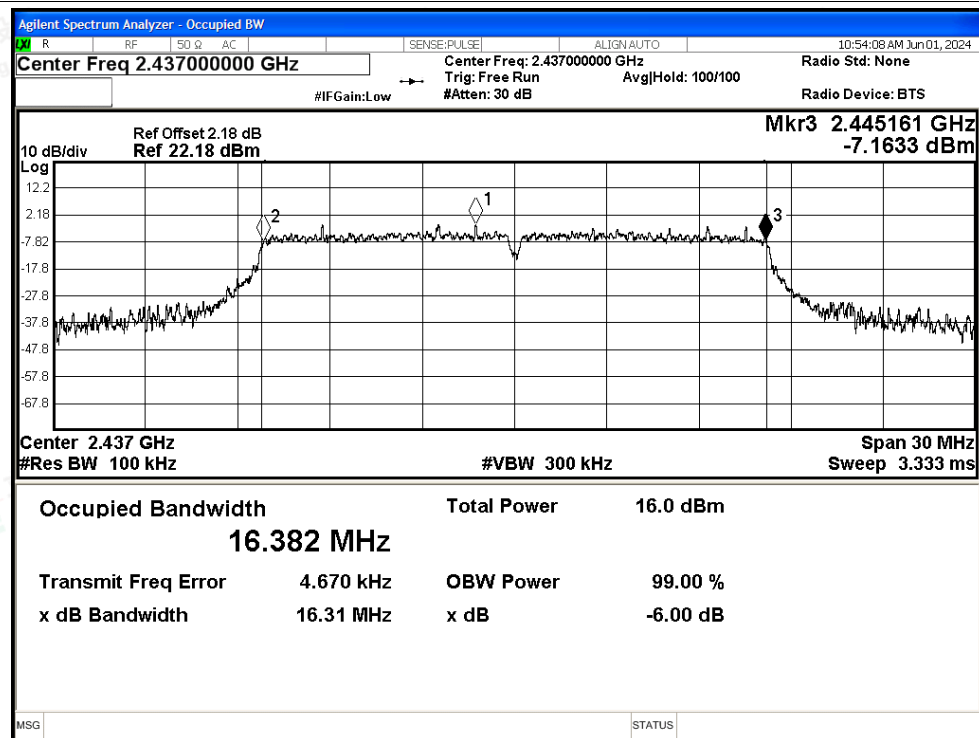


## -6dB Bandwidth NVNT g 2412MHz Ant1

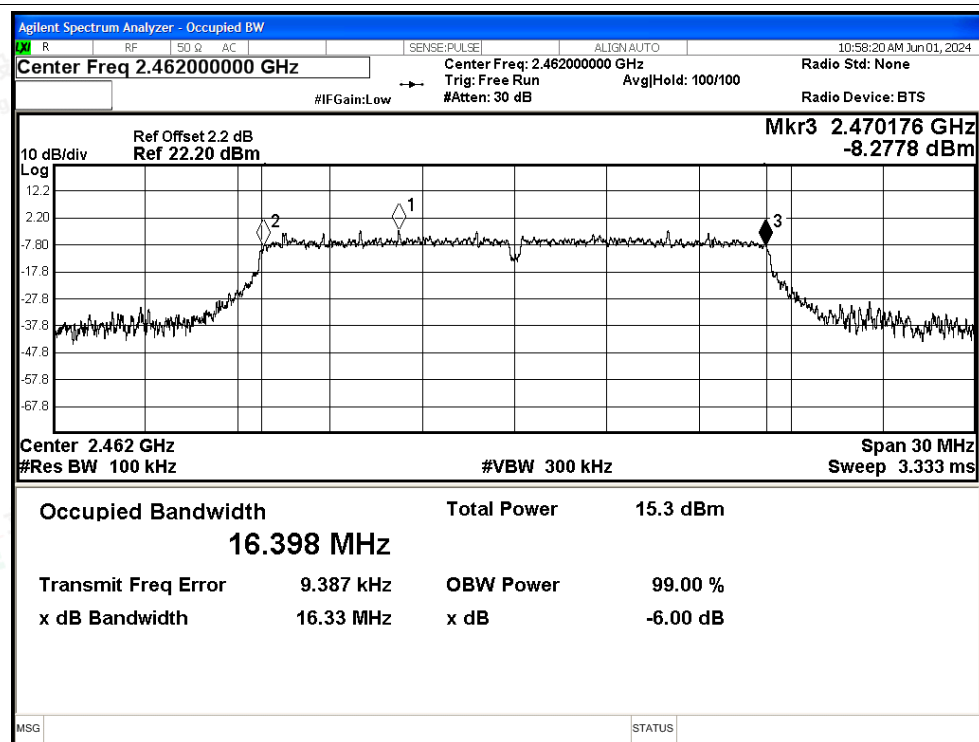




## -6dB Bandwidth NVNT g 2437MHz Ant1

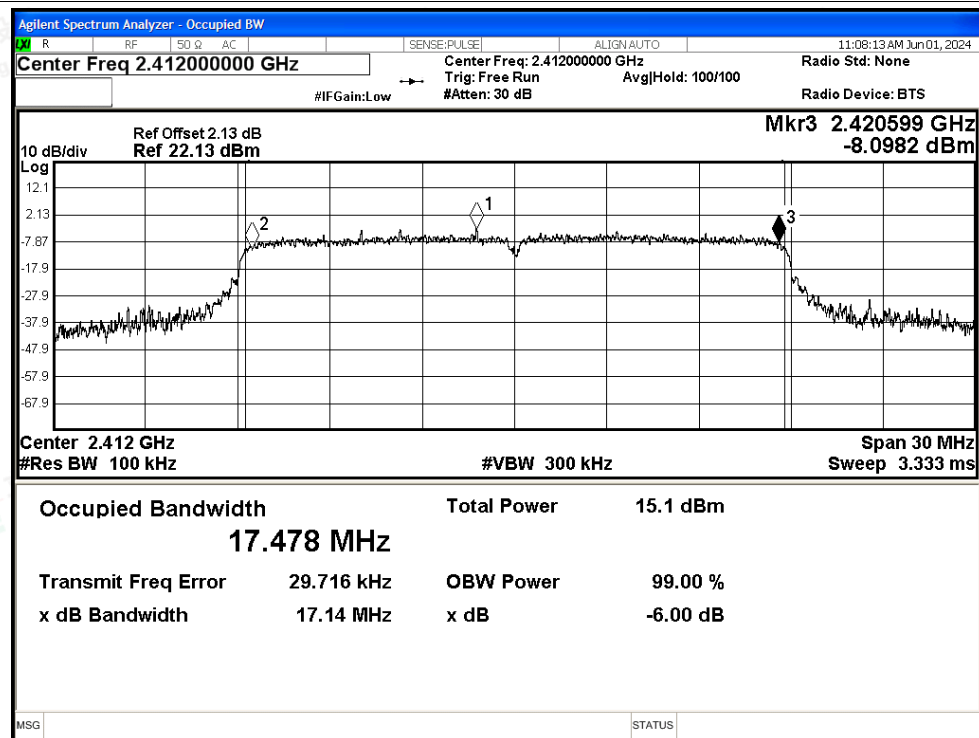


## -6dB Bandwidth NVNT g 2462MHz Ant1

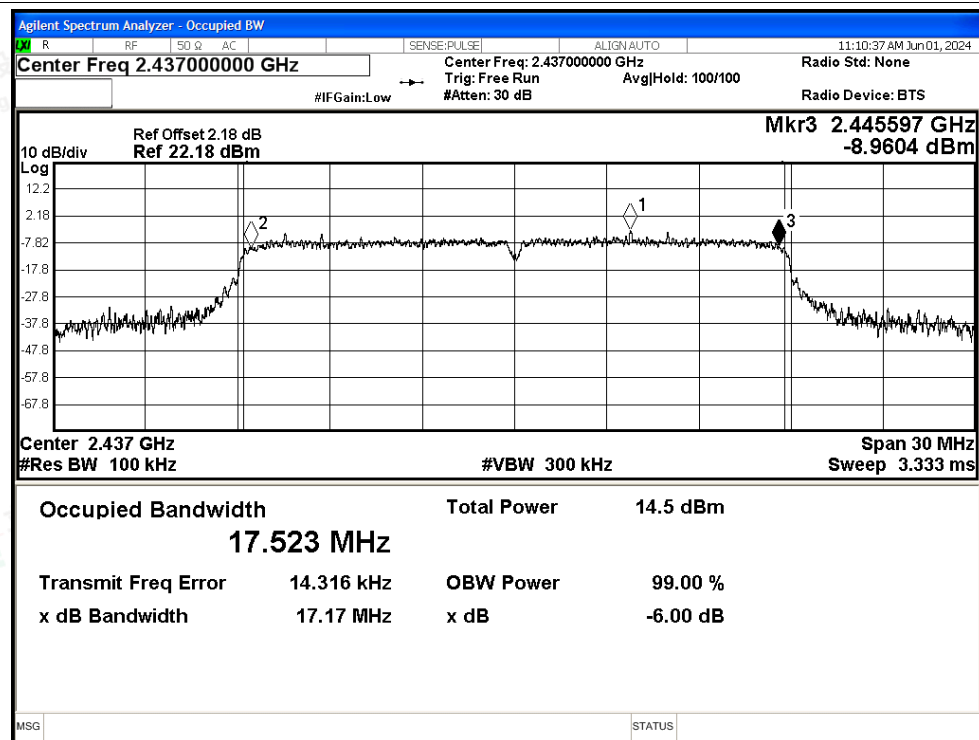


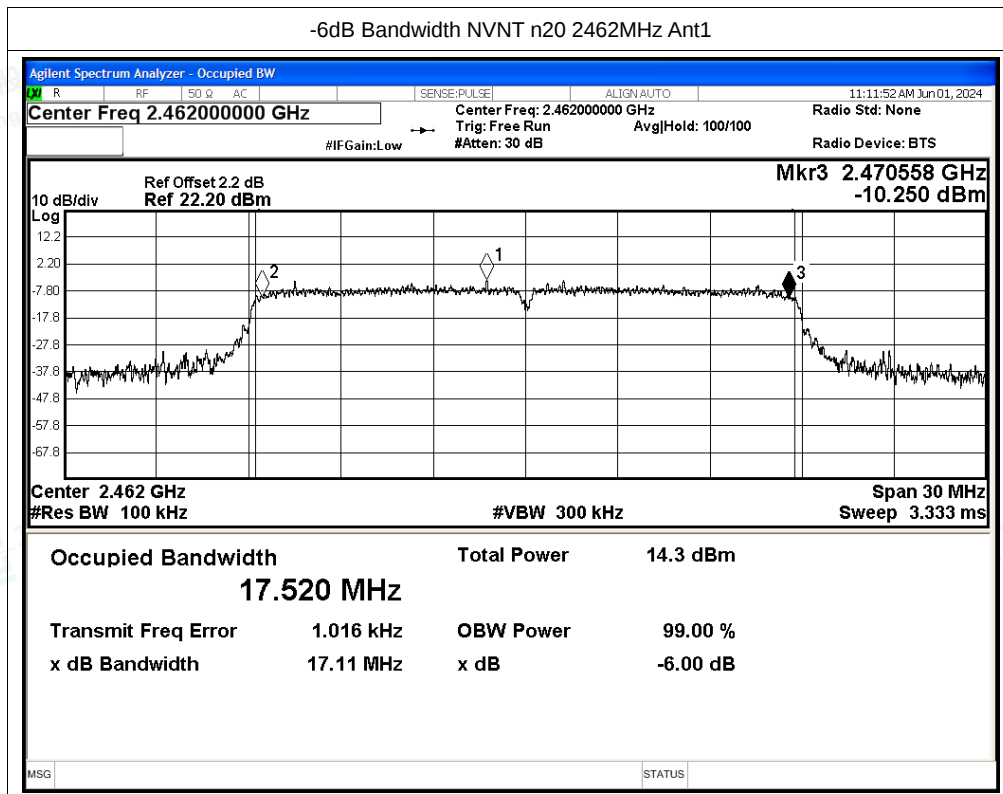


## -6dB Bandwidth NVNT n20 2412MHz Ant1



## -6dB Bandwidth NVNT n20 2437MHz Ant1







## B.2 Maximum Conducted Output Power

| Condition | Mode | Frequency<br>(MHz) | Antenna | Conducted Power<br>(dBm) | Duty Factor<br>(dB) | Total Power<br>(dBm) | Limit<br>(dBm) | Verdict |
|-----------|------|--------------------|---------|--------------------------|---------------------|----------------------|----------------|---------|
| NVNT      | b    | 2412               | Ant1    | 15.18                    | 0                   | 15.18                | 30             | Pass    |
| NVNT      | b    | 2437               | Ant1    | 15.52                    | 0                   | 15.52                | 30             | Pass    |
| NVNT      | b    | 2462               | Ant1    | 15.36                    | 0                   | 15.36                | 30             | Pass    |
| NVNT      | g    | 2412               | Ant1    | 14.75                    | 0                   | 14.75                | 30             | Pass    |
| NVNT      | g    | 2437               | Ant1    | 14.6                     | 0                   | 14.6                 | 30             | Pass    |
| NVNT      | g    | 2462               | Ant1    | 14.05                    | 0                   | 14.05                | 30             | Pass    |
| NVNT      | n20  | 2412               | Ant1    | 13.74                    | 0                   | 13.74                | 30             | Pass    |
| NVNT      | n20  | 2437               | Ant1    | 13.16                    | 0                   | 13.16                | 30             | Pass    |
| NVNT      | n20  | 2462               | Ant1    | 13.23                    | 0                   | 13.23                | 30             | Pass    |





### B.3 Maximum Power Spectral Density Level

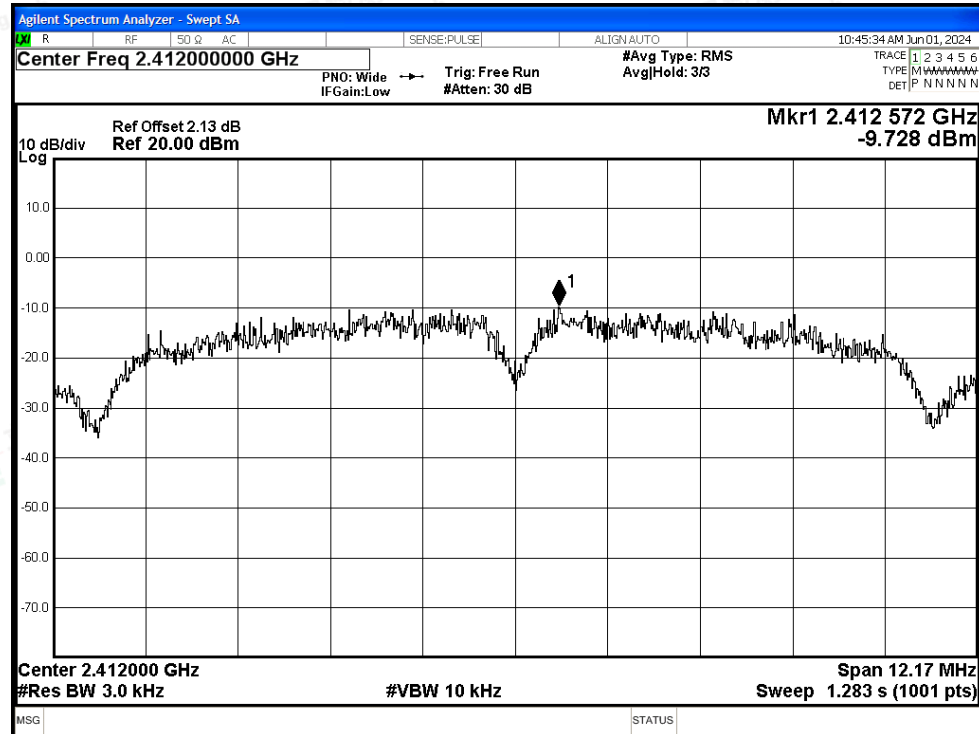
| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm/3kHz) | Duty Factor (dB) | Total PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|-----------|------|-----------------|---------|--------------------------|------------------|----------------------|------------------|---------|
| NVNT      | b    | 2412            | Ant1    | -9.73                    | 0                | -9.73                | 8                | Pass    |
| NVNT      | b    | 2437            | Ant1    | -8.11                    | 0                | -8.11                | 8                | Pass    |
| NVNT      | b    | 2462            | Ant1    | -9.91                    | 0                | -9.91                | 8                | Pass    |
| NVNT      | g    | 2412            | Ant1    | -15.78                   | 0                | -15.78               | 8                | Pass    |
| NVNT      | g    | 2437            | Ant1    | -16.36                   | 0                | -16.36               | 8                | Pass    |
| NVNT      | g    | 2462            | Ant1    | -16.27                   | 0                | -16.27               | 8                | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -15.69                   | 0                | -15.69               | 8                | Pass    |
| NVNT      | n20  | 2437            | Ant1    | -17.34                   | 0                | -17.34               | 8                | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -16.66                   | 0                | -16.66               | 8                | Pass    |



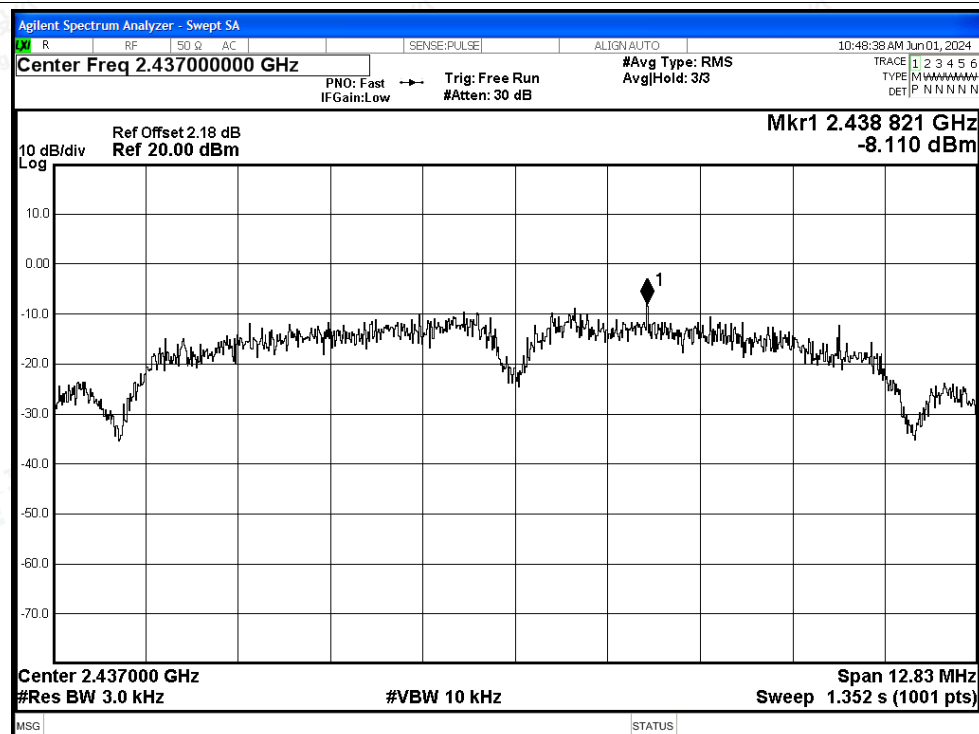


## Test Graphs

## PSD NVNT b 2412MHz Ant1

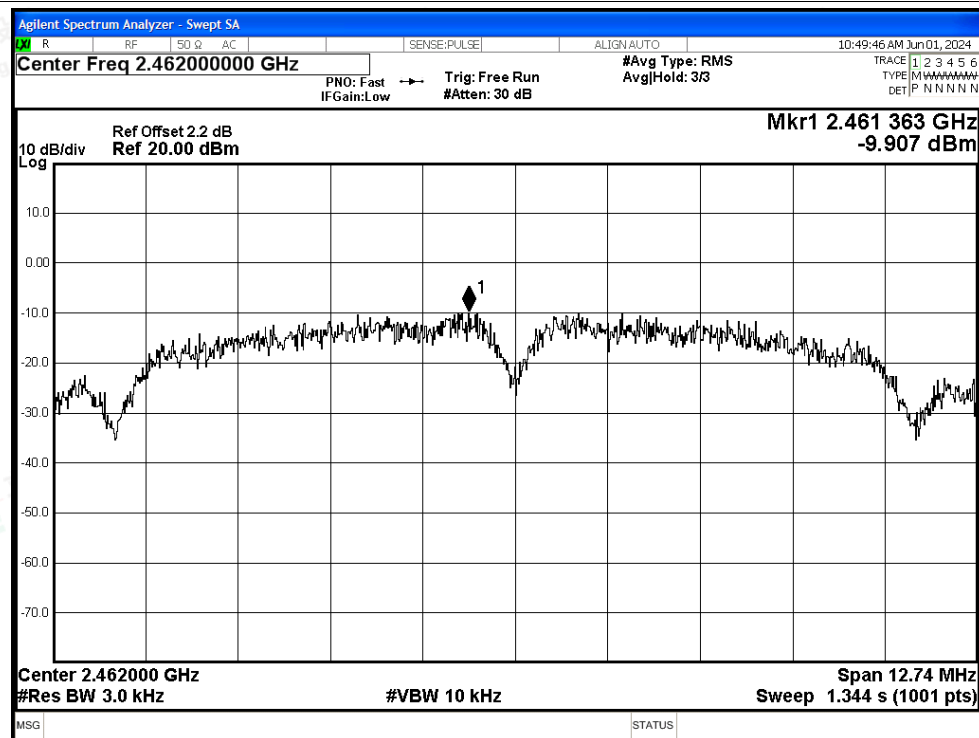


## PSD NVNT b 2437MHz Ant1

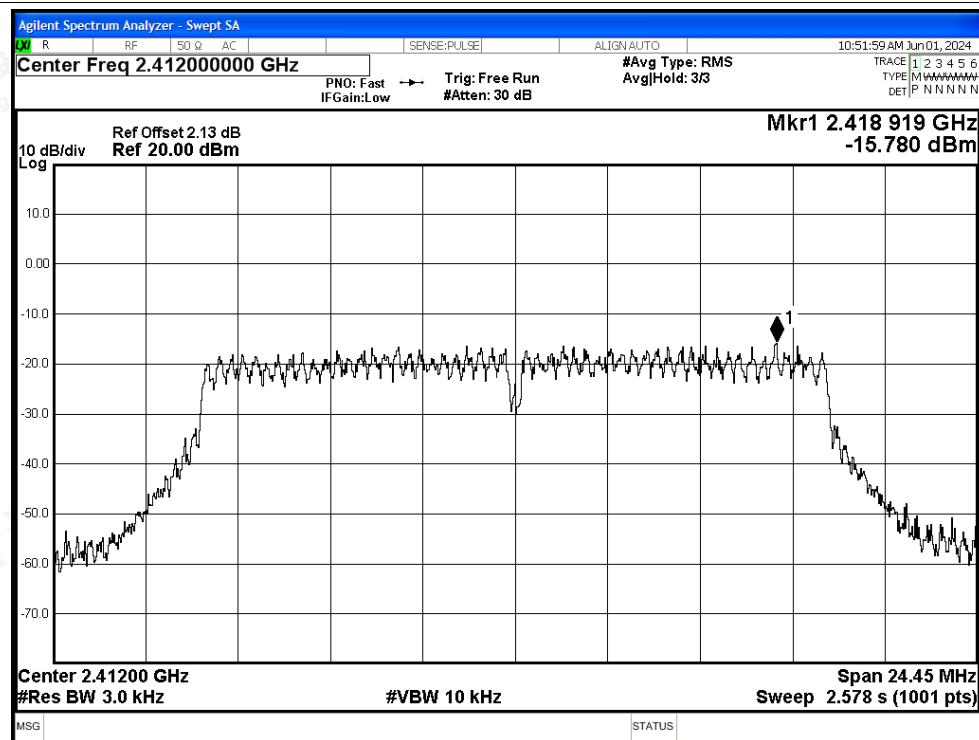


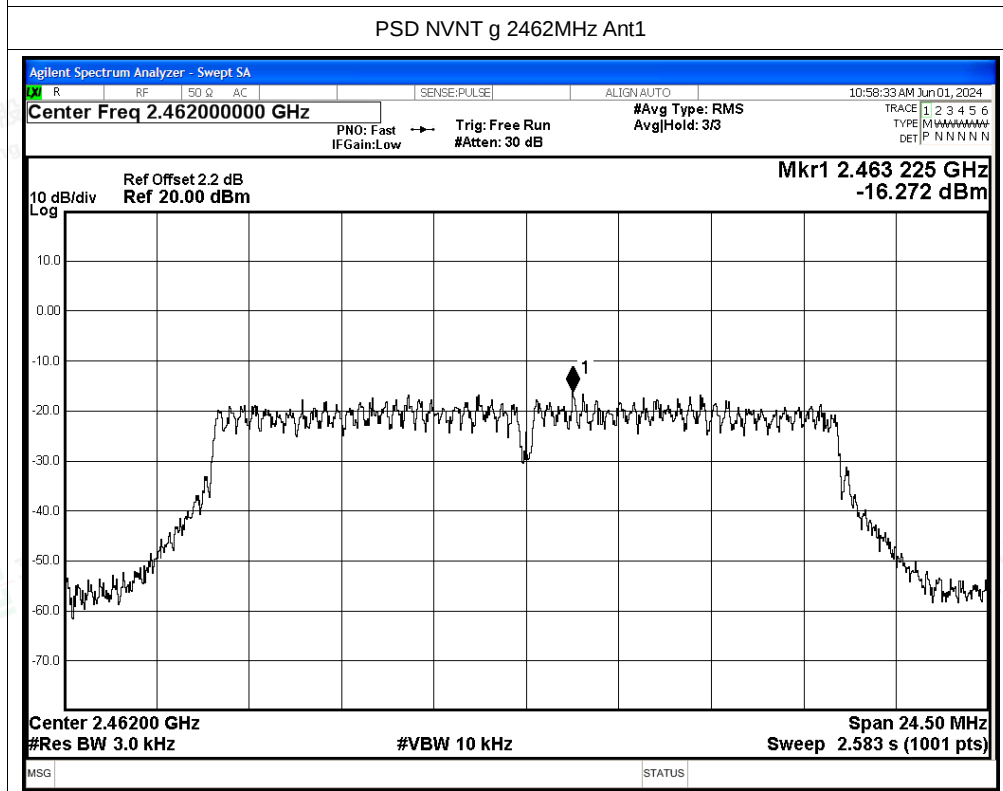
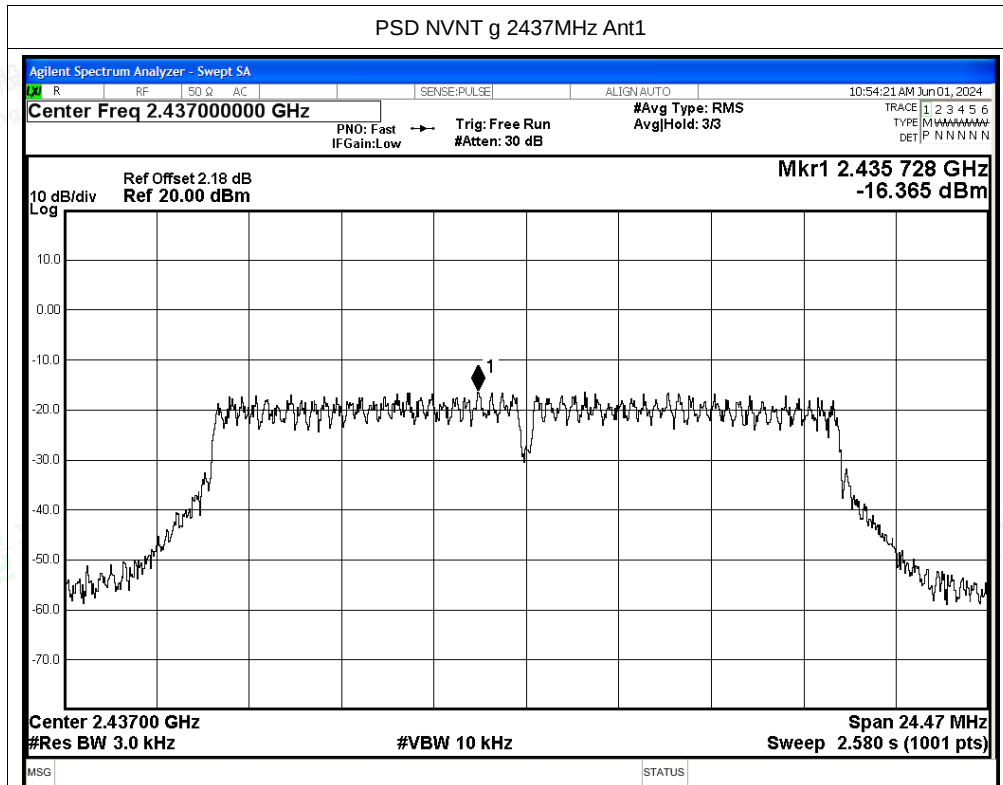


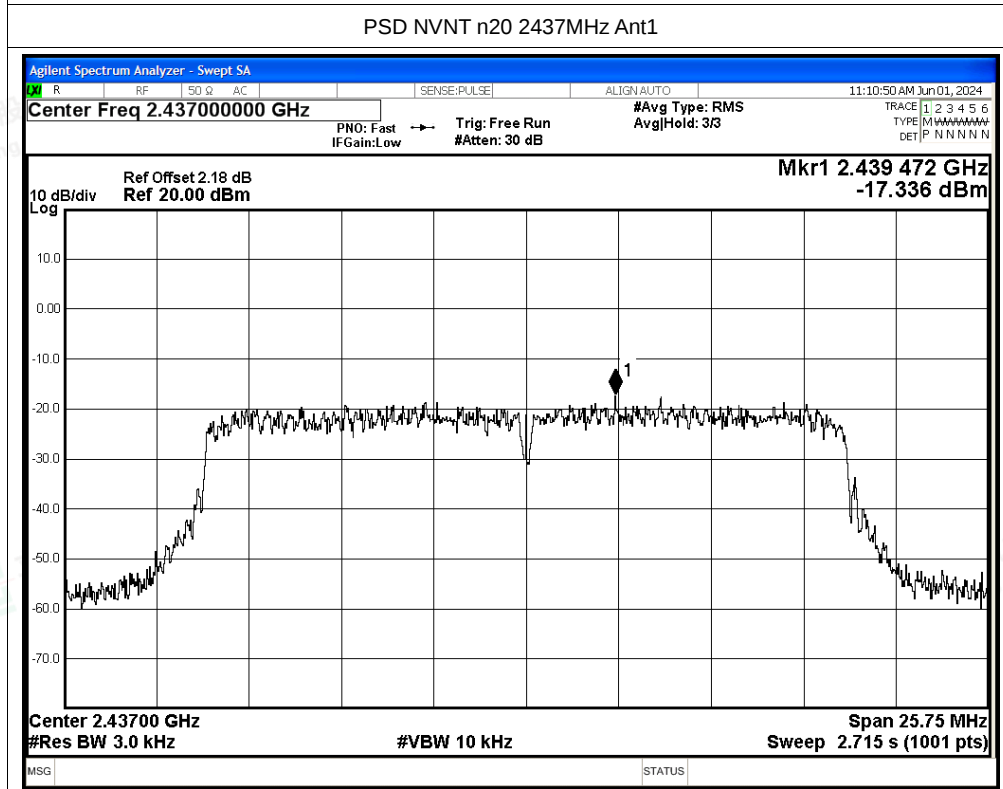
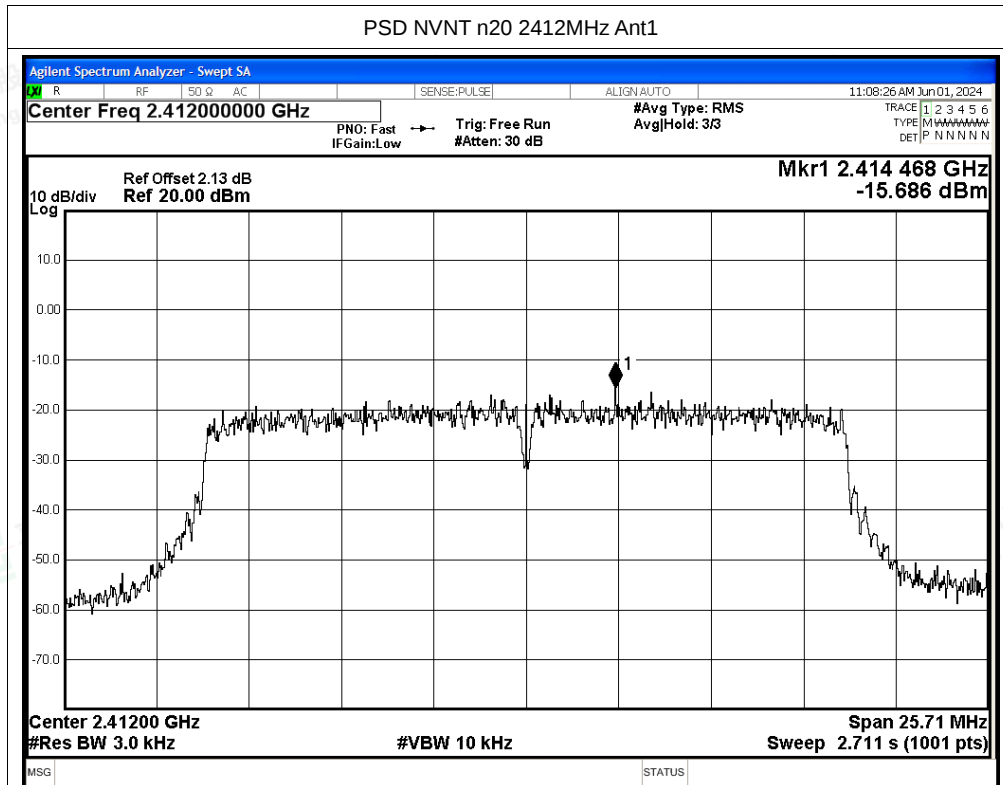
PSD NVNT b 2462MHz Ant1

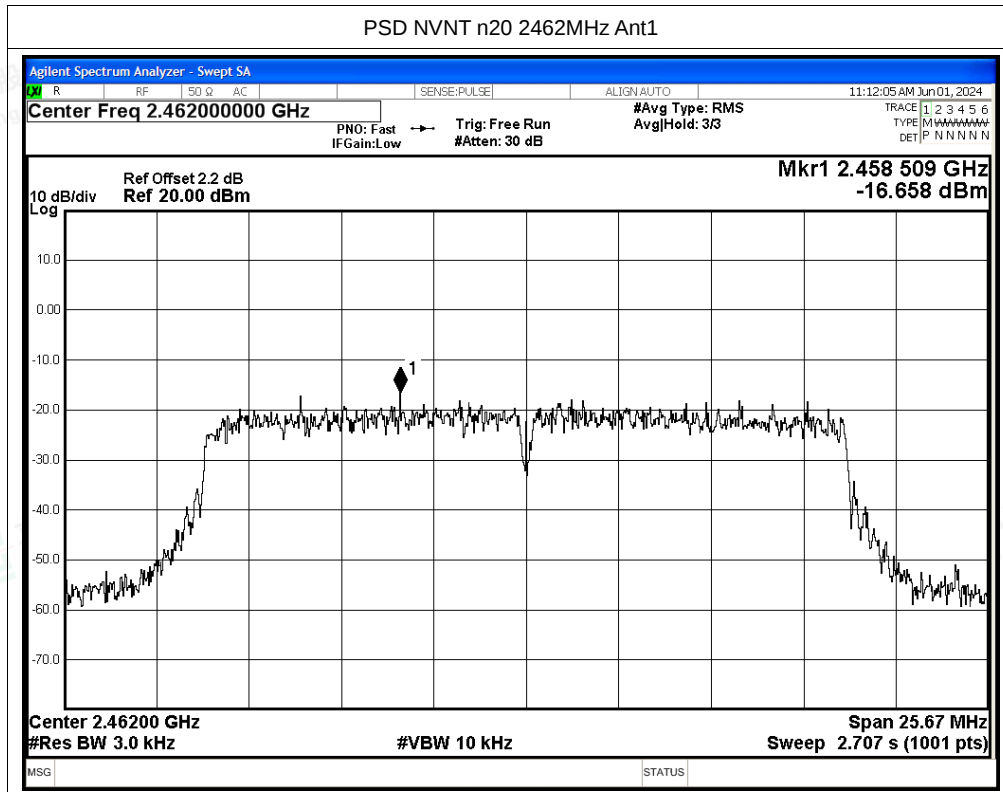


PSD NVNT g 2412MHz Ant1







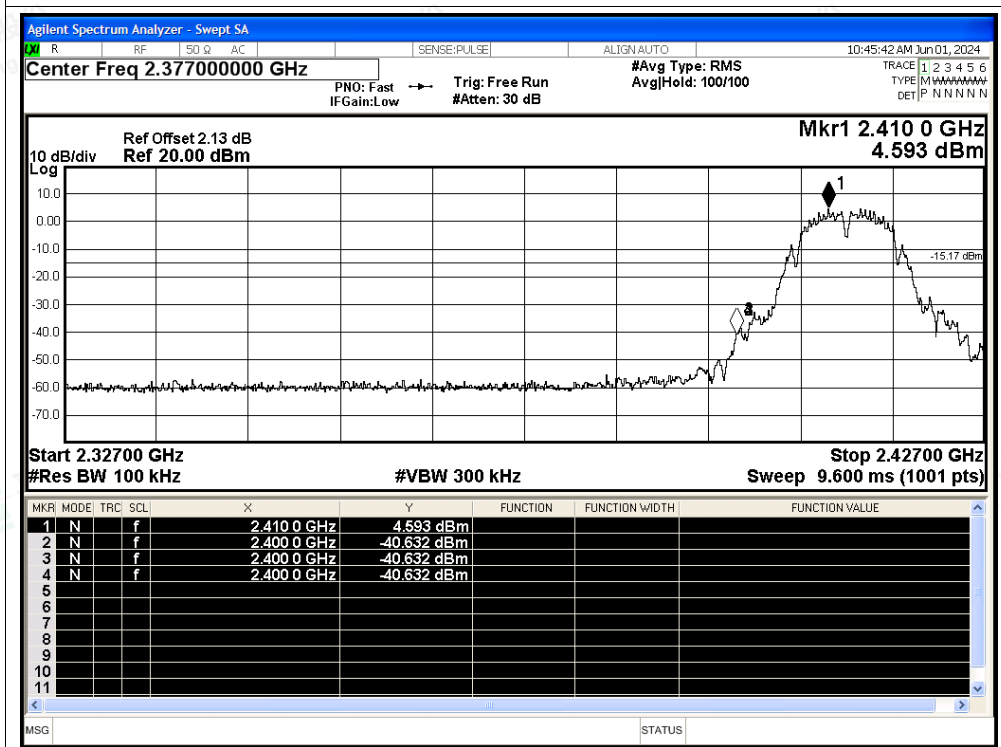




## B.4 Band Edge

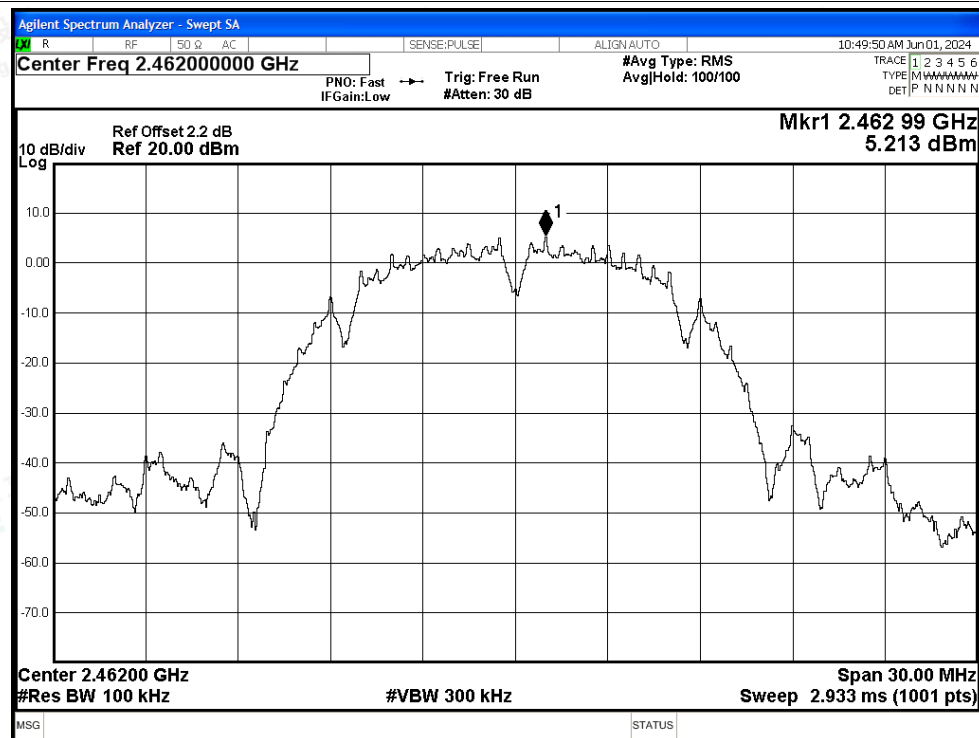
| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | -45.47          | -20         | Pass    |
| NVNT      | b    | 2462            | Ant1    | -61.28          | -20         | Pass    |
| NVNT      | g    | 2412            | Ant1    | -33.34          | -20         | Pass    |
| NVNT      | g    | 2462            | Ant1    | -43.33          | -20         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -30.55          | -20         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -43.8           | -20         | Pass    |



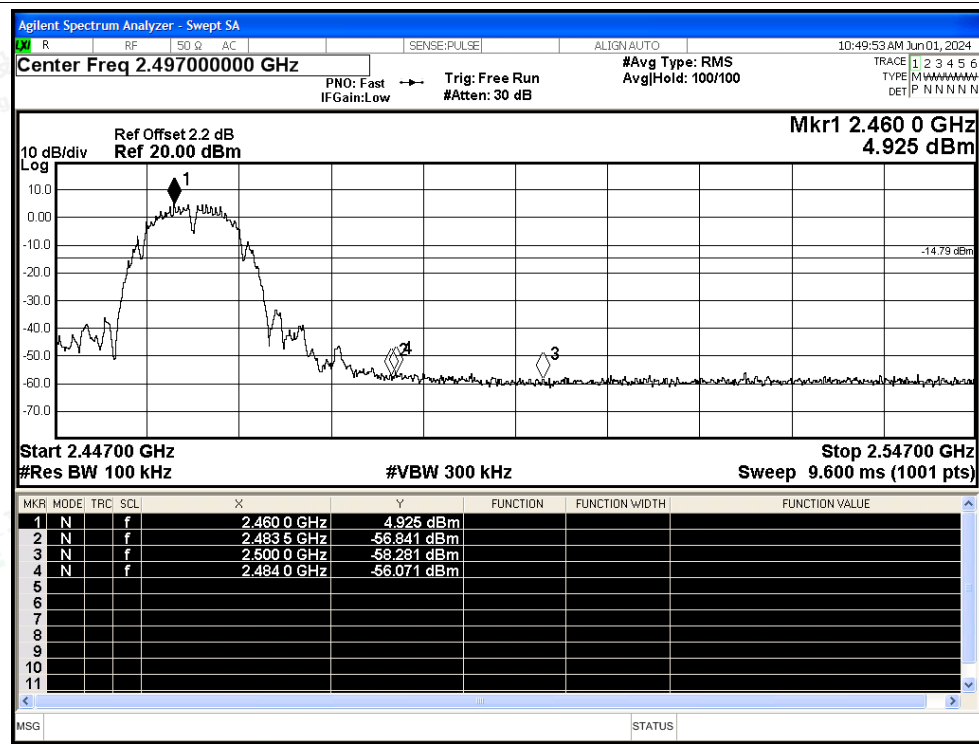




## Band Edge NVNT b 2462MHz Ant1 Ref

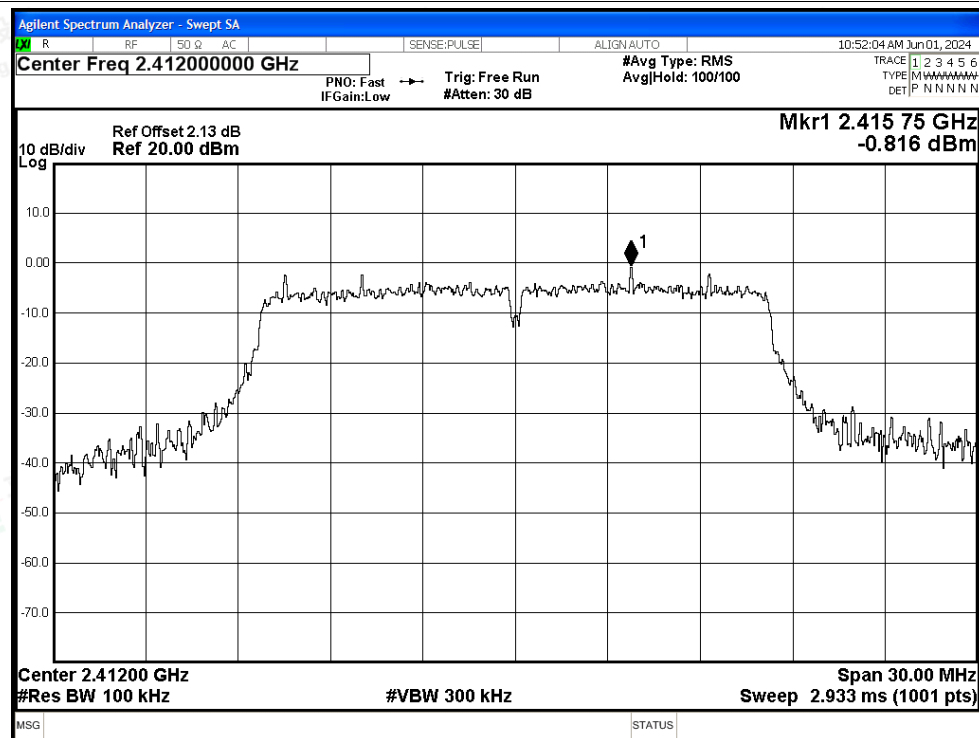


## Band Edge NVNT b 2462MHz Ant1 Emission

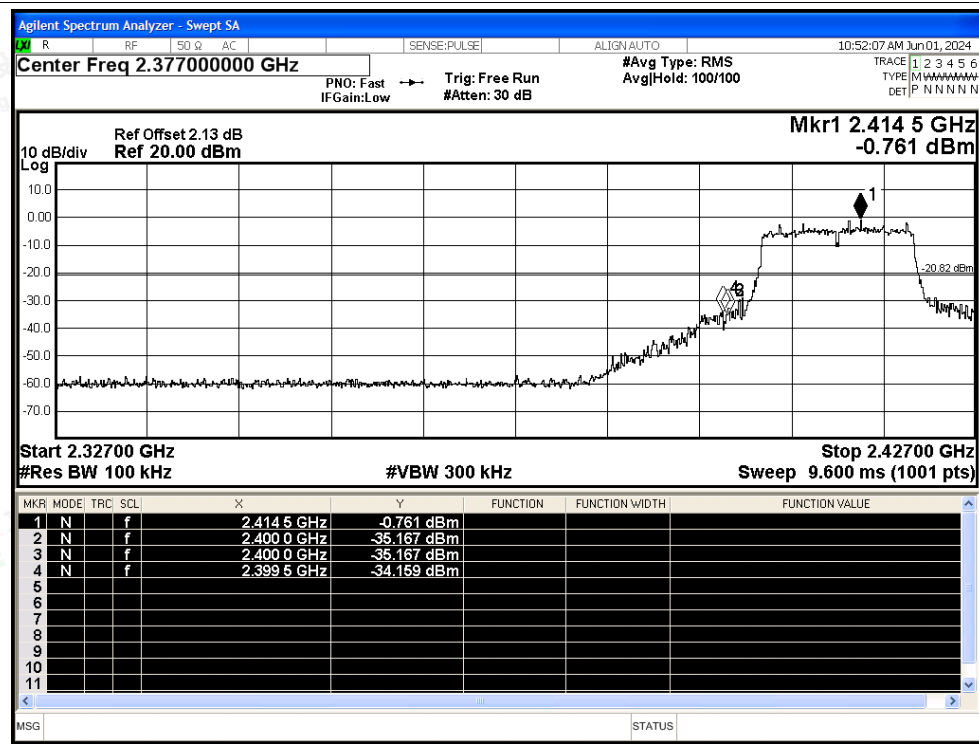




## Band Edge NVNT g 2412MHz Ant1 Ref

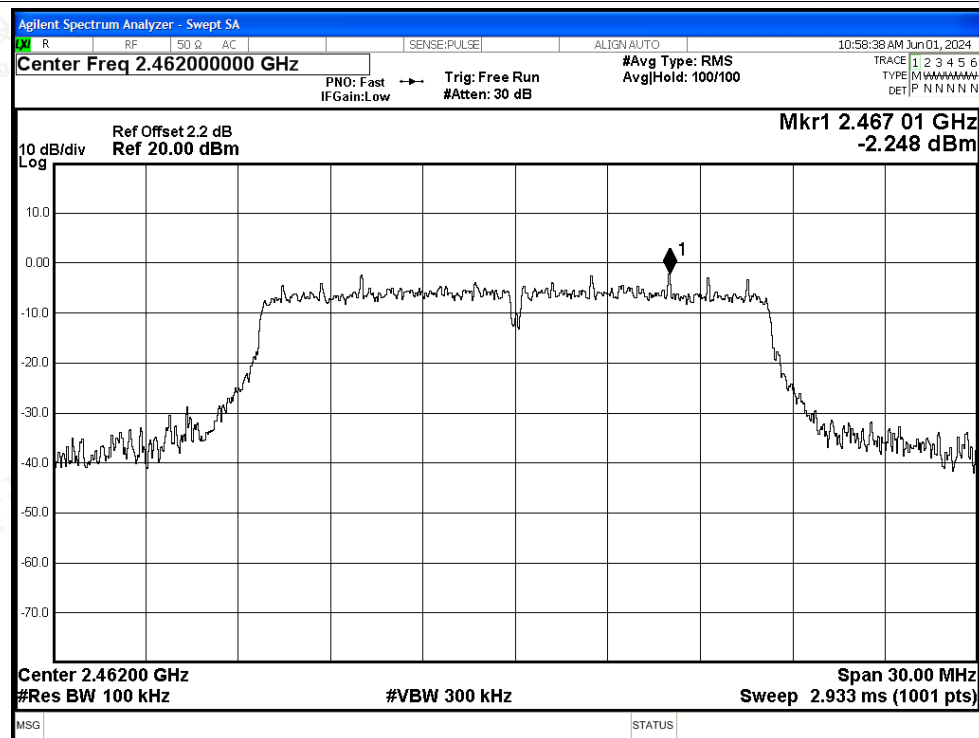


## Band Edge NVNT g 2412MHz Ant1 Emission

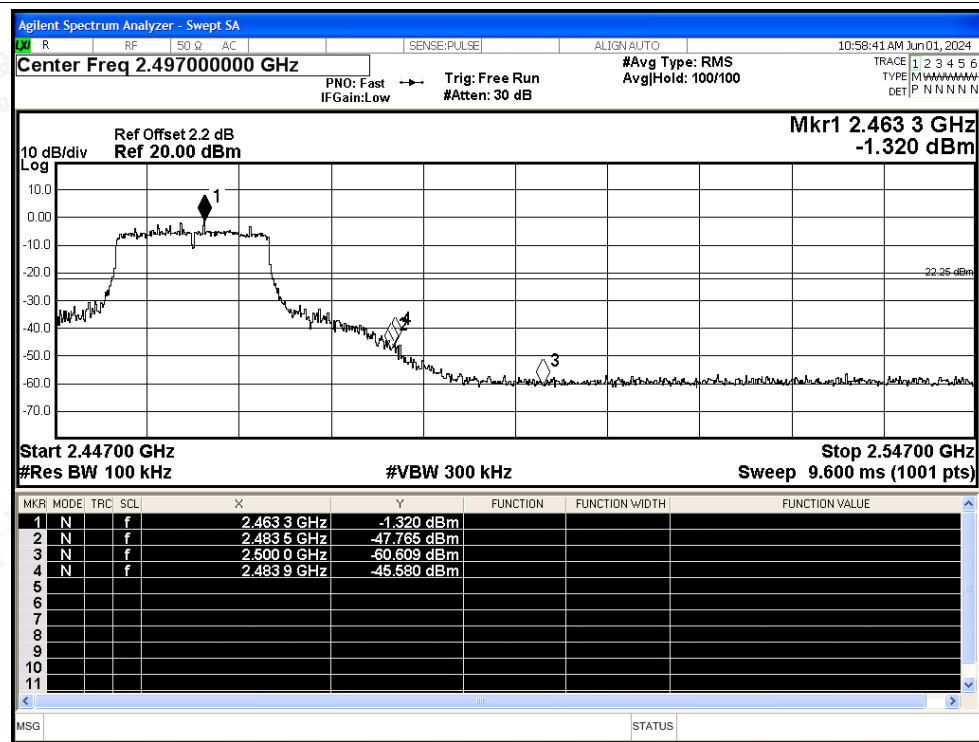




## Band Edge NVNT g 2462MHz Ant1 Ref

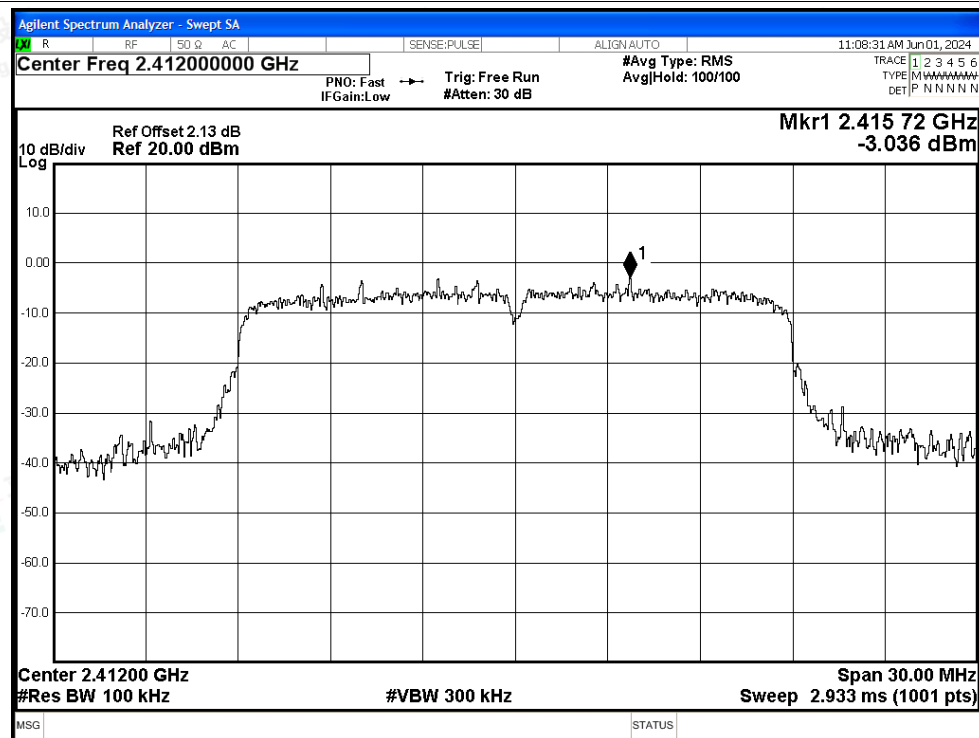


## Band Edge NVNT g 2462MHz Ant1 Emission

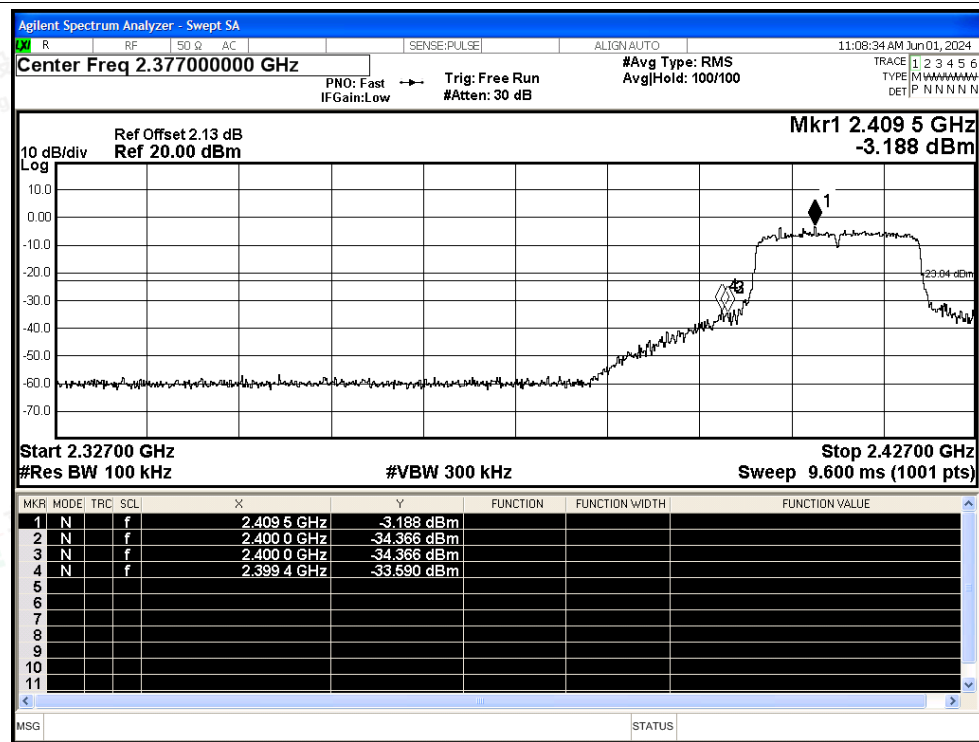




## Band Edge NVNT n20 2412MHz Ant1 Ref

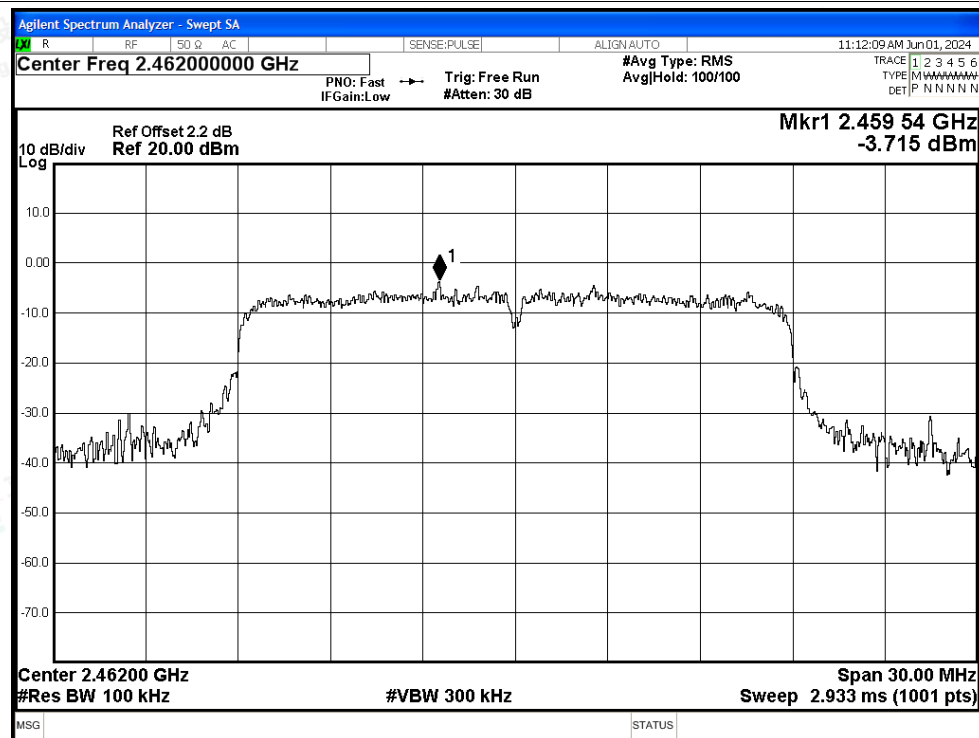


## Band Edge NVNT n20 2412MHz Ant1 Emission

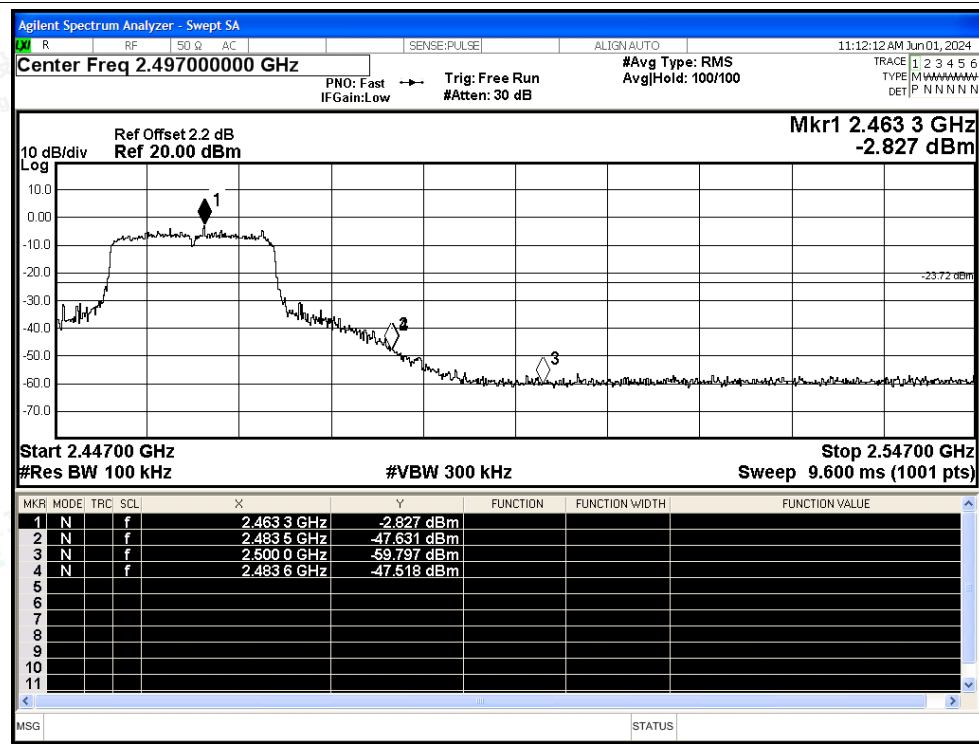




## Band Edge NVNT n20 2462MHz Ant1 Ref



## Band Edge NVNT n20 2462MHz Ant1 Emission





## B.5 Conducted RF Spurious Emission

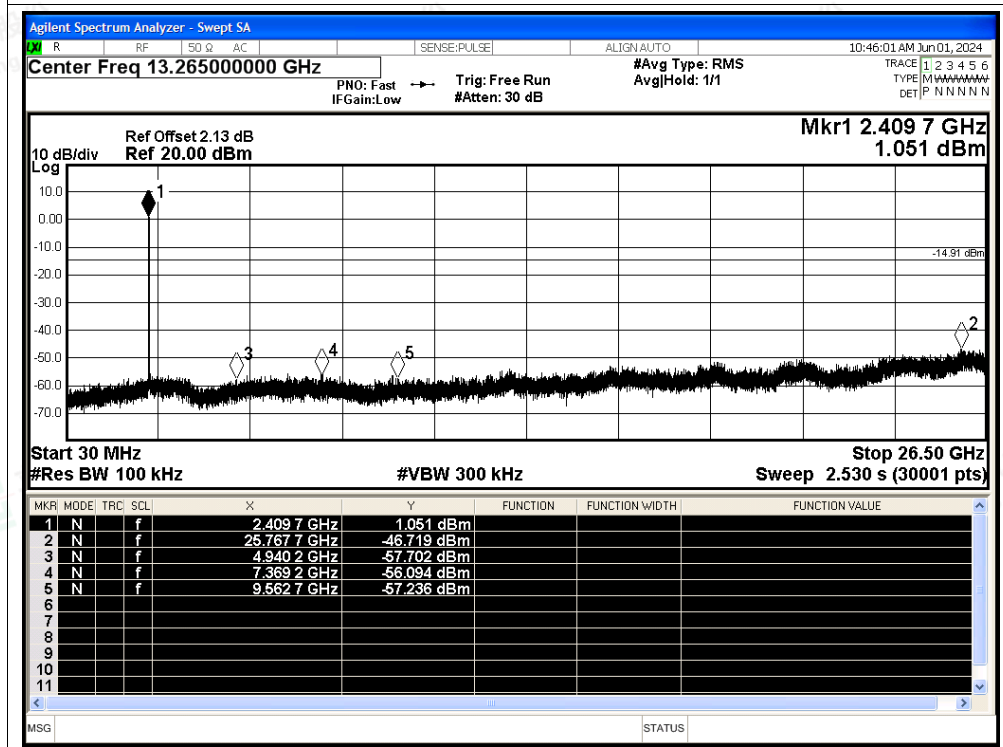
| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | -51.81          | -20         | Pass    |
| NVNT      | b    | 2437            | Ant1    | -50.09          | -20         | Pass    |
| NVNT      | b    | 2462            | Ant1    | -51.47          | -20         | Pass    |
| NVNT      | g    | 2412            | Ant1    | -45.11          | -20         | Pass    |
| NVNT      | g    | 2437            | Ant1    | -45.52          | -20         | Pass    |
| NVNT      | g    | 2462            | Ant1    | -43.78          | -20         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -42.9           | -20         | Pass    |
| NVNT      | n20  | 2437            | Ant1    | -43.43          | -20         | Pass    |
| NVNT      | n20  | 2462            | Ant1    | -42.54          | -20         | Pass    |



Shenzhen LCS Compliance Testing Laboratory Ltd.  
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China  
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com  
Scan code to check authenticity



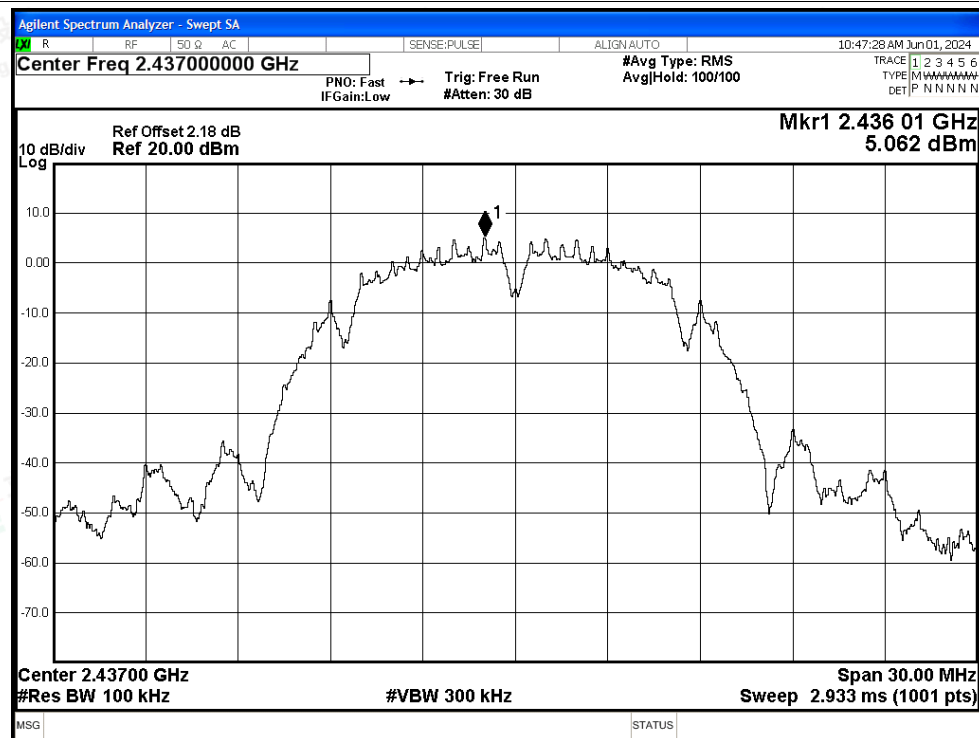
Tx. Spurious NVNT b 2412MHz Ant1 Emission



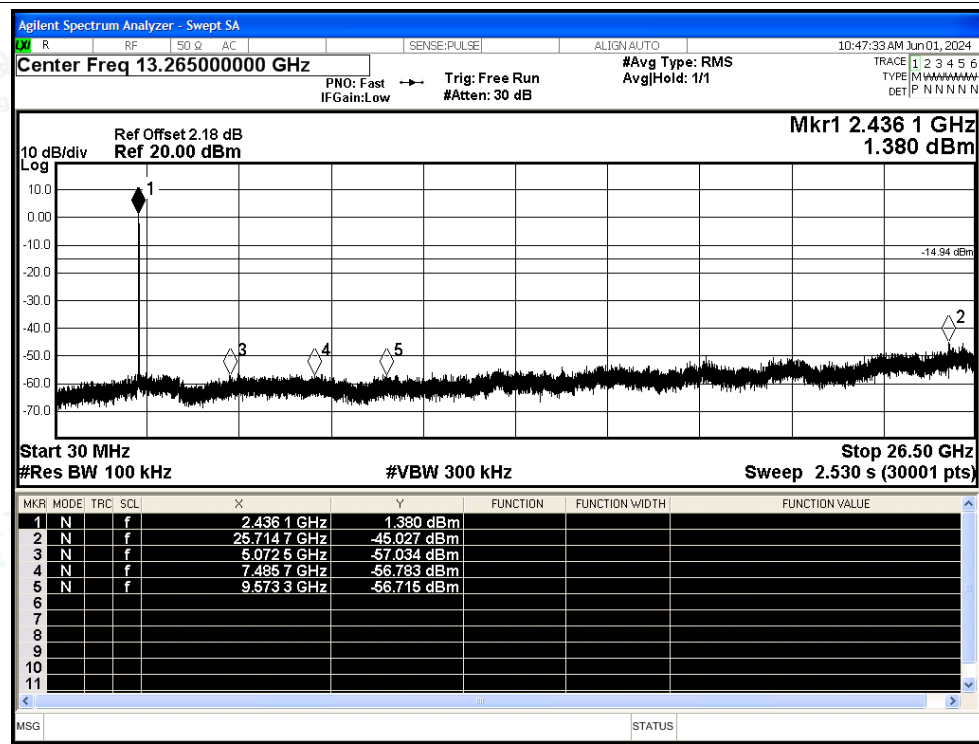
Shenzhen LCS Compliance Testing Laboratory Ltd.  
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen,  
518000, China  
Tel: +(86) 0755-82591330 | E-mail: [webmaster@lcs-cert.com](mailto:webmaster@lcs-cert.com) | Web: [www.lcs-cert.com](http://www.lcs-cert.com)  
Scan code to check authenticity



## Tx. Spurious NVNT b 2437MHz Ant1 Ref

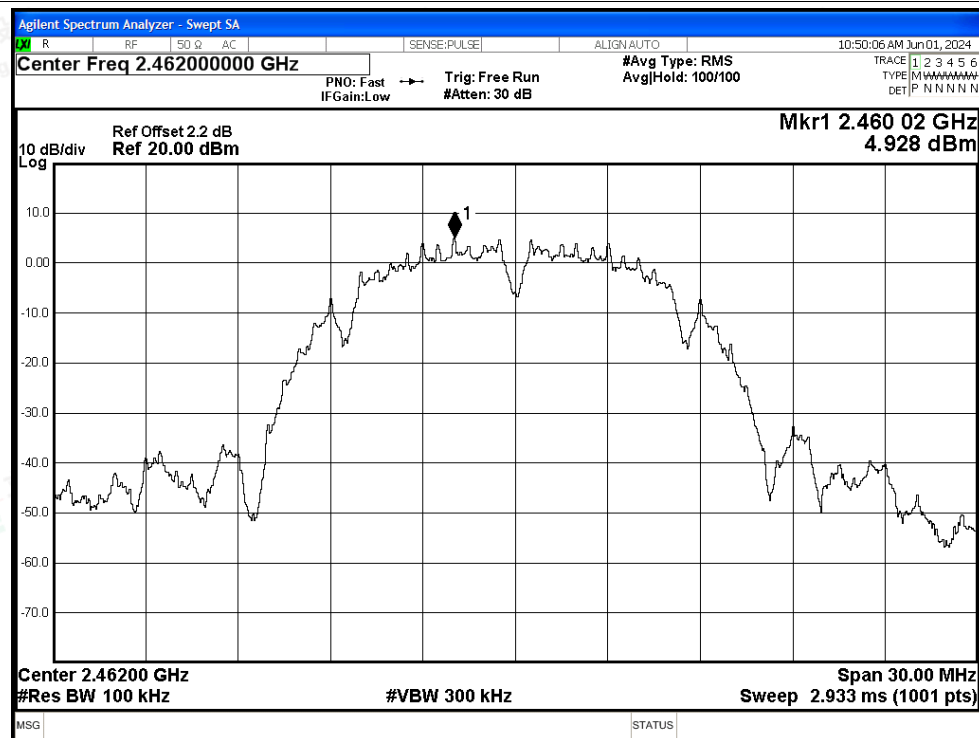


## Tx. Spurious NVNT b 2437MHz Ant1 Emission

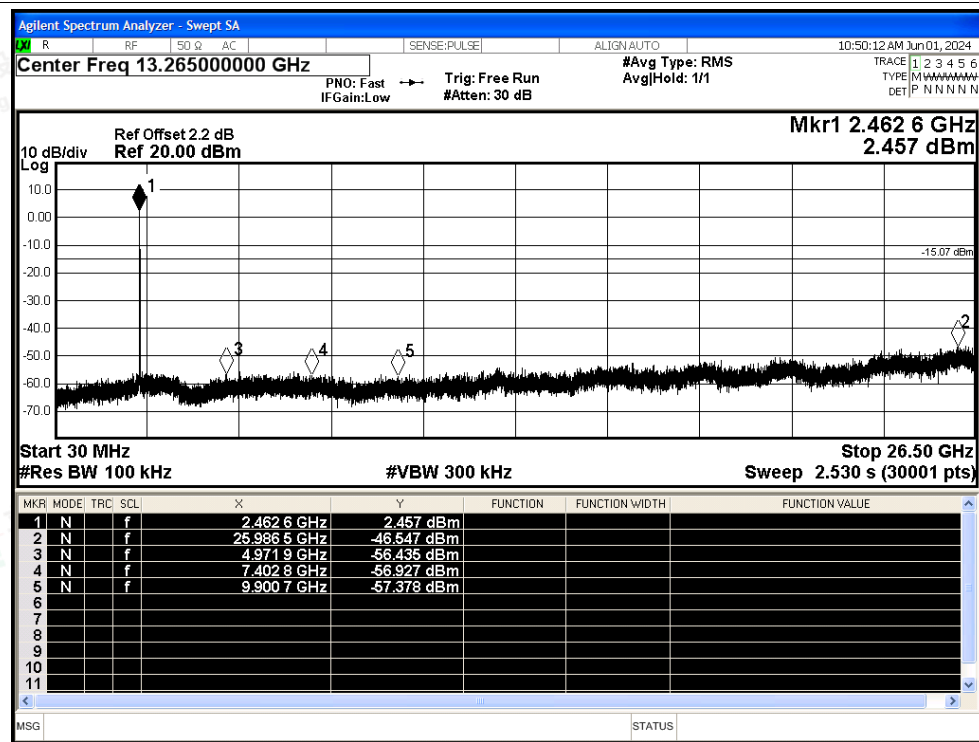




## Tx. Spurious NVNT b 2462MHz Ant1 Ref

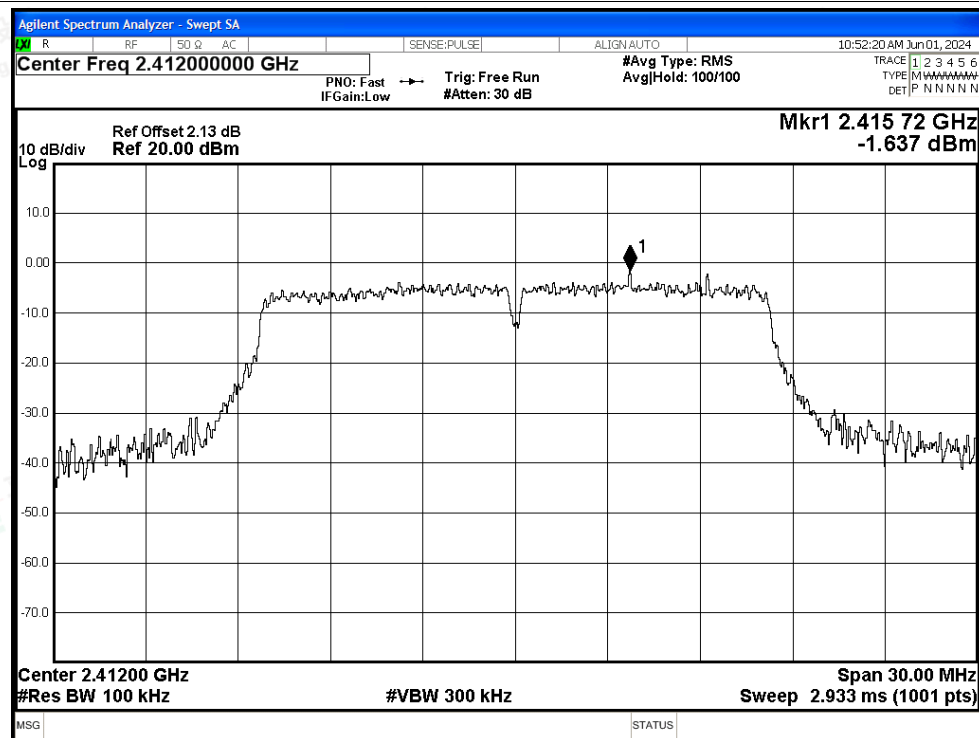


## Tx. Spurious NVNT b 2462MHz Ant1 Emission

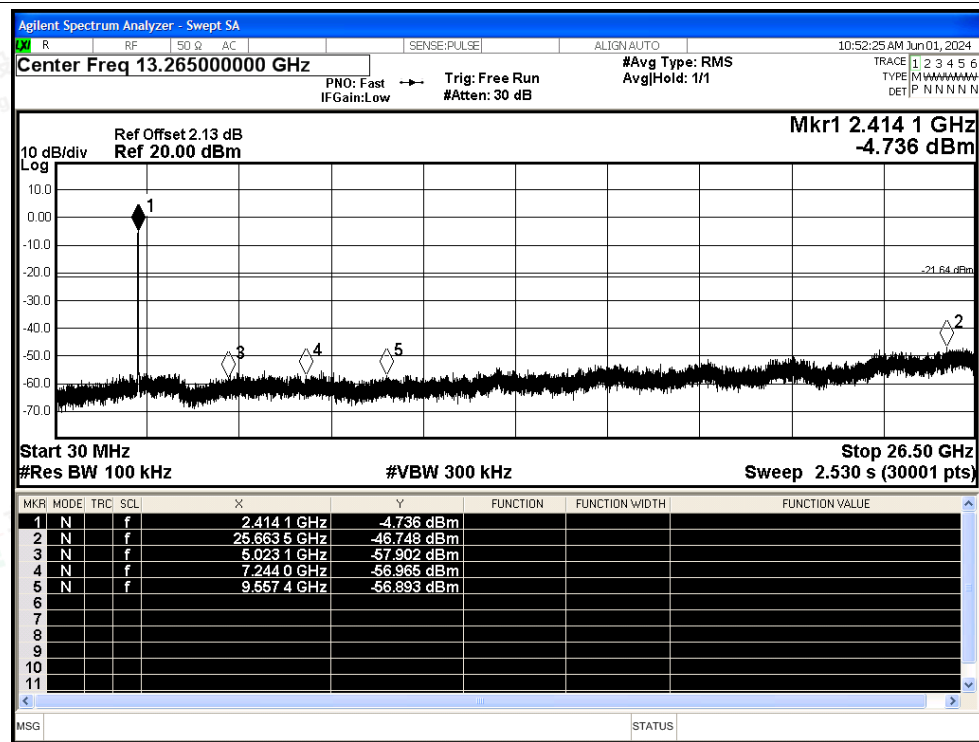




## Tx. Spurious NVNT g 2412MHz Ant1 Ref

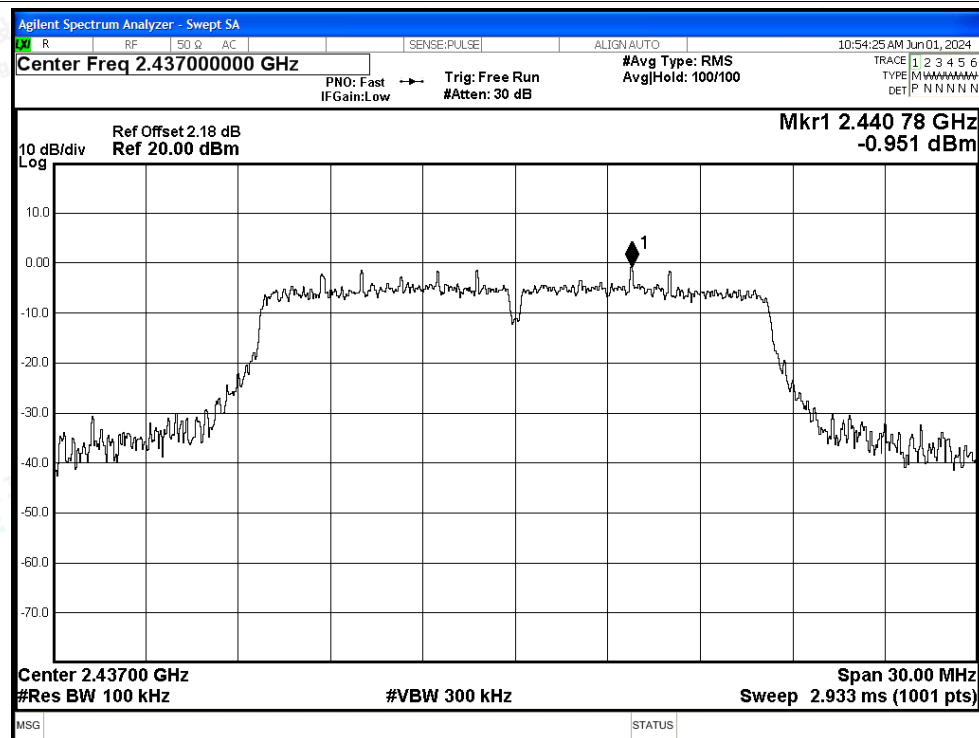


## Tx. Spurious NVNT g 2412MHz Ant1 Emission

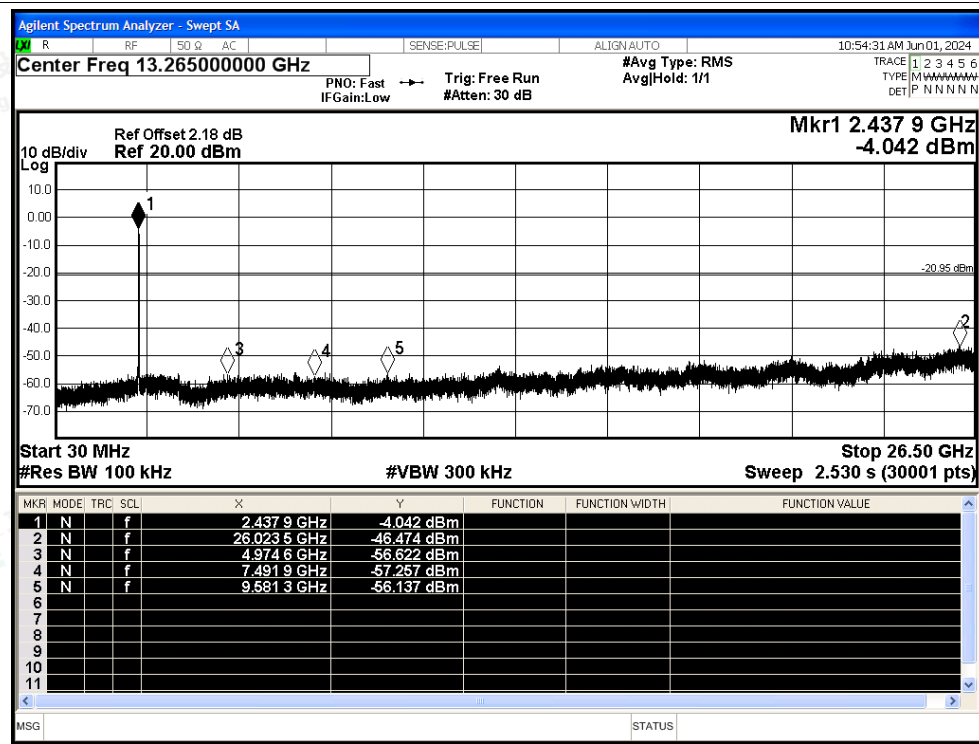




## Tx. Spurious NVNT g 2437MHz Ant1 Ref

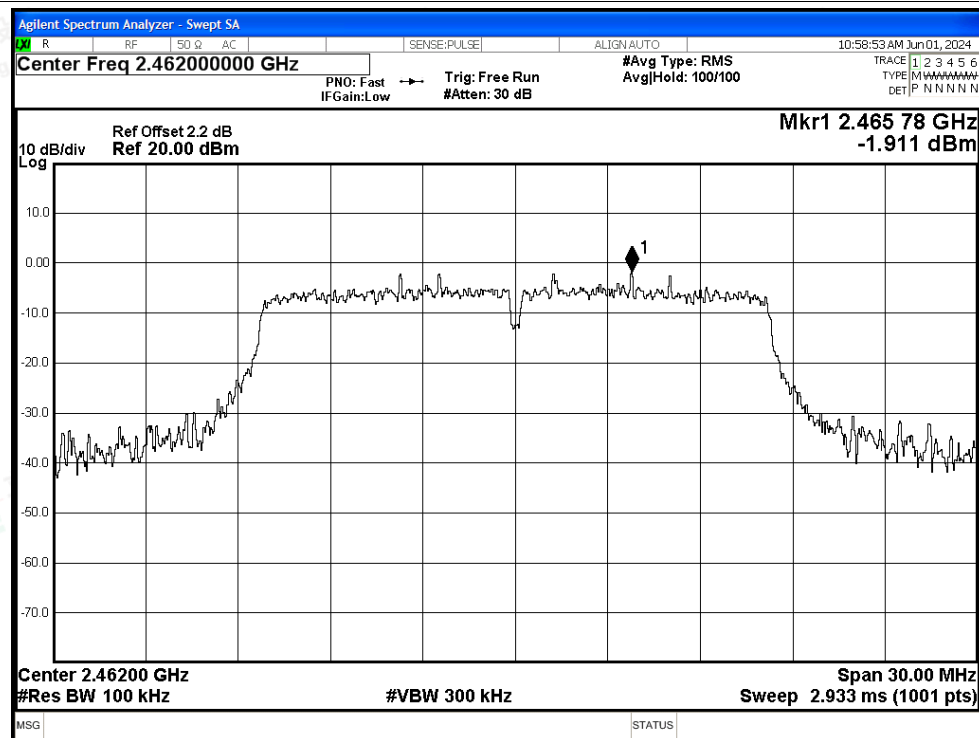


## Tx. Spurious NVNT g 2437MHz Ant1 Emission

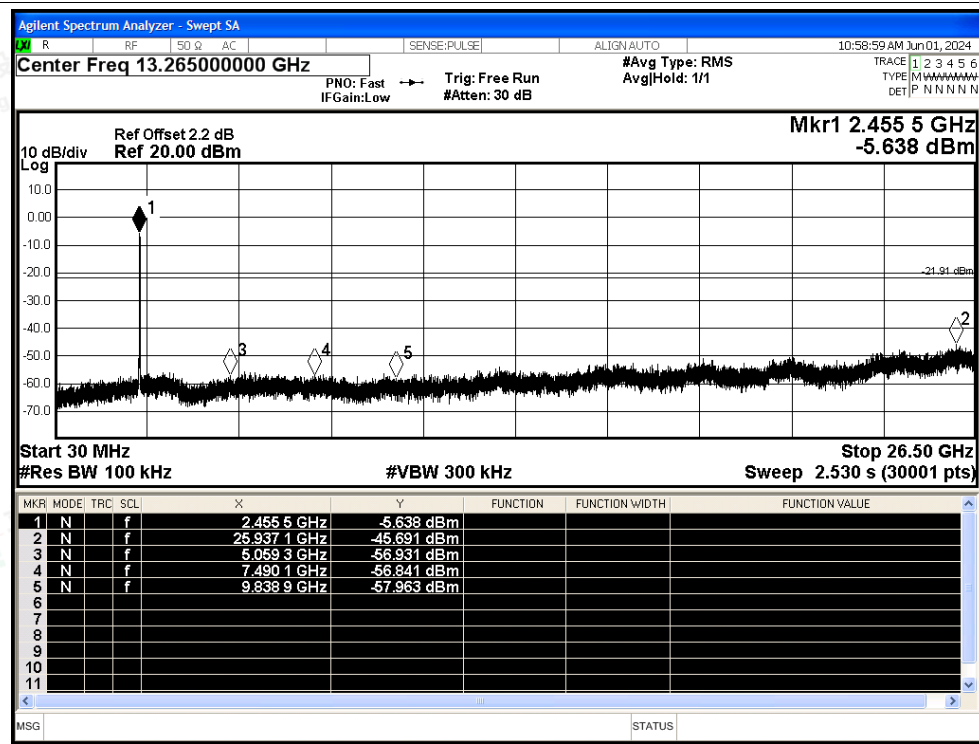




## Tx. Spurious NVNT g 2462MHz Ant1 Ref

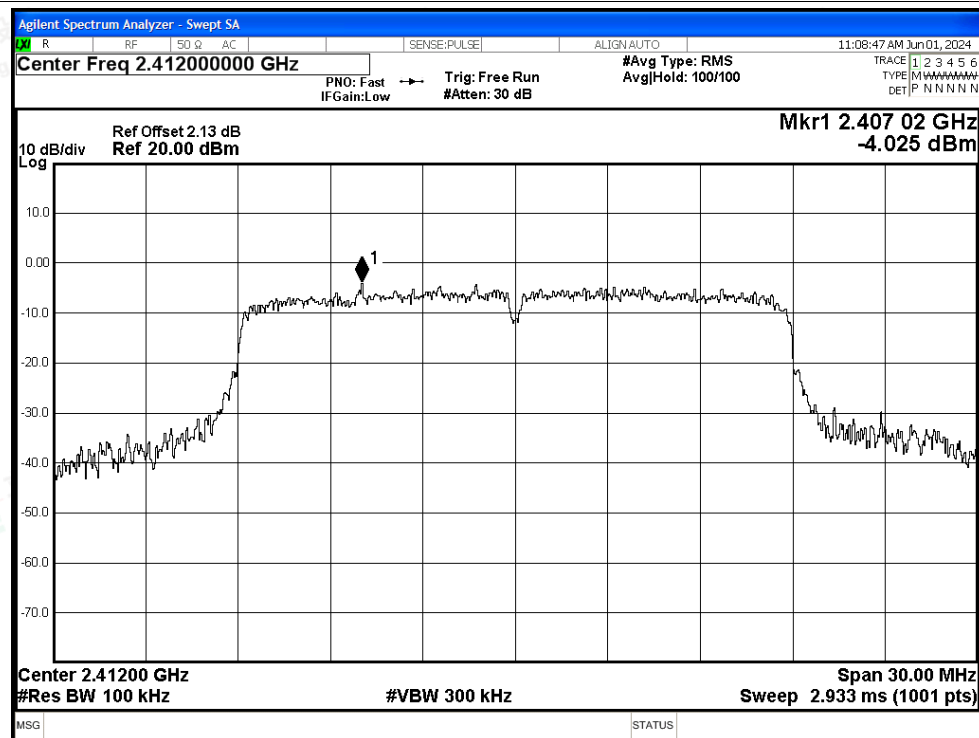


## Tx. Spurious NVNT g 2462MHz Ant1 Emission

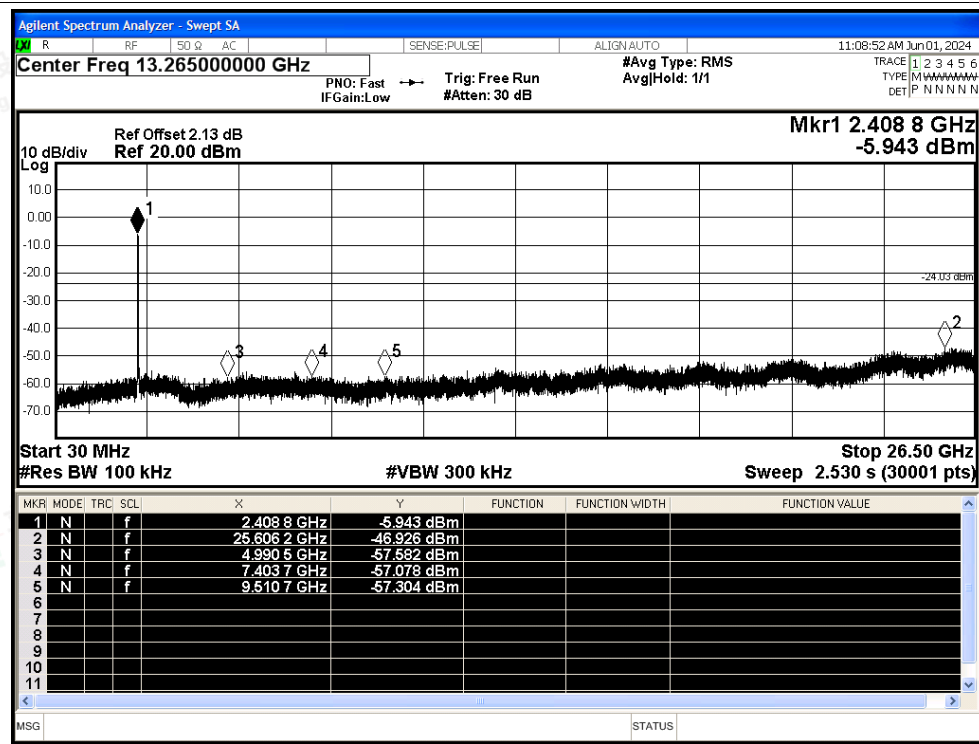




## Tx. Spurious NVNT n20 2412MHz Ant1 Ref

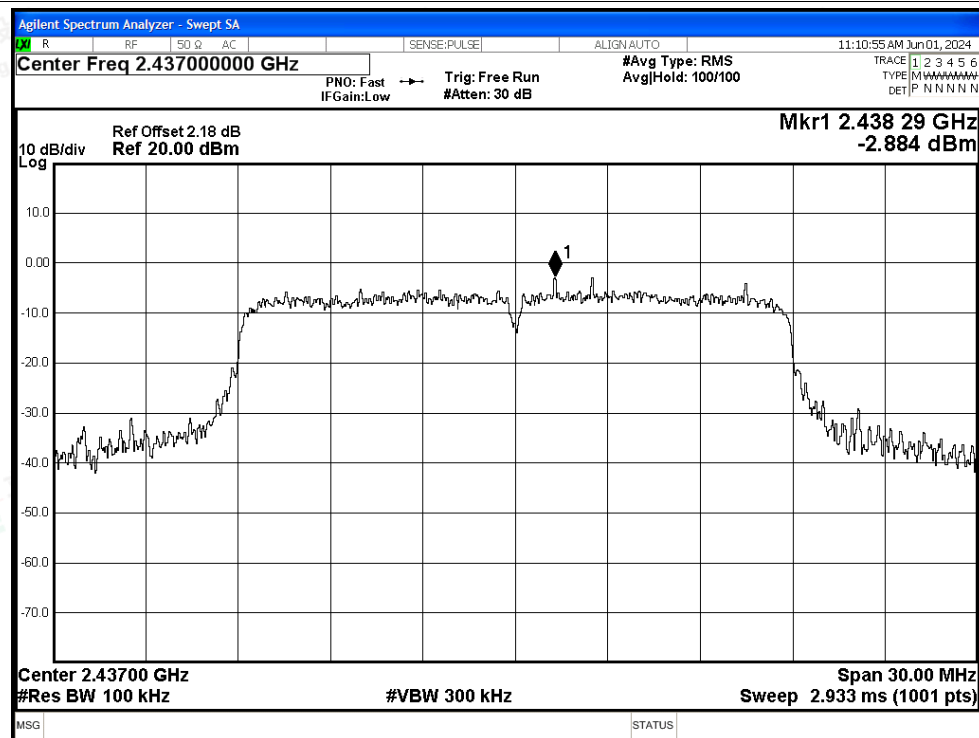


## Tx. Spurious NVNT n20 2412MHz Ant1 Emission

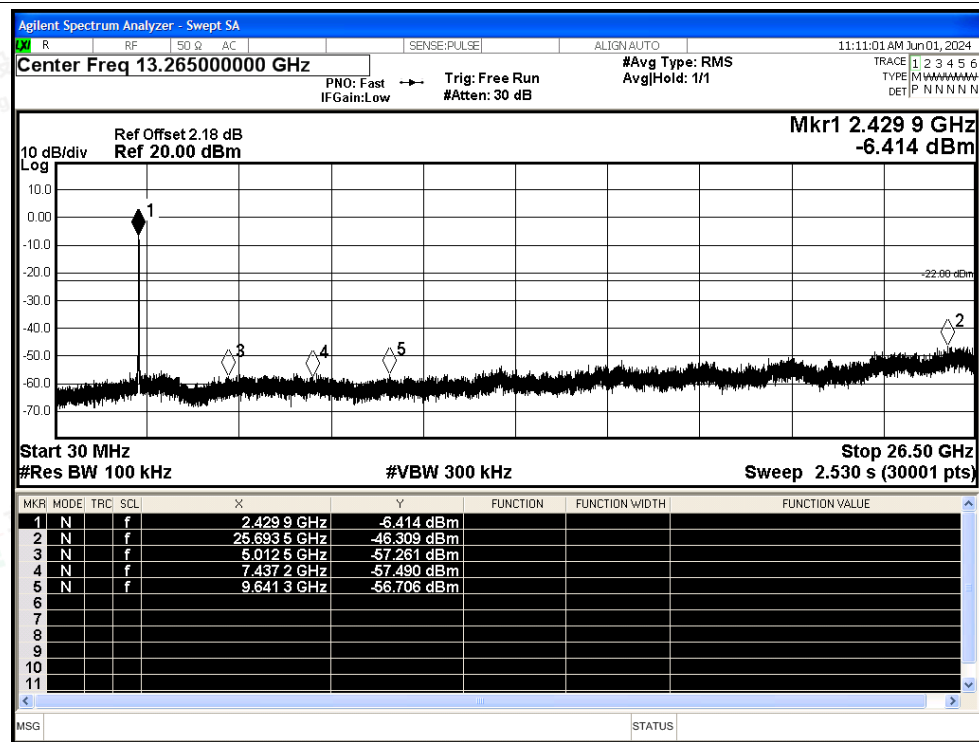




## Tx. Spurious NVNT n20 2437MHz Ant1 Ref

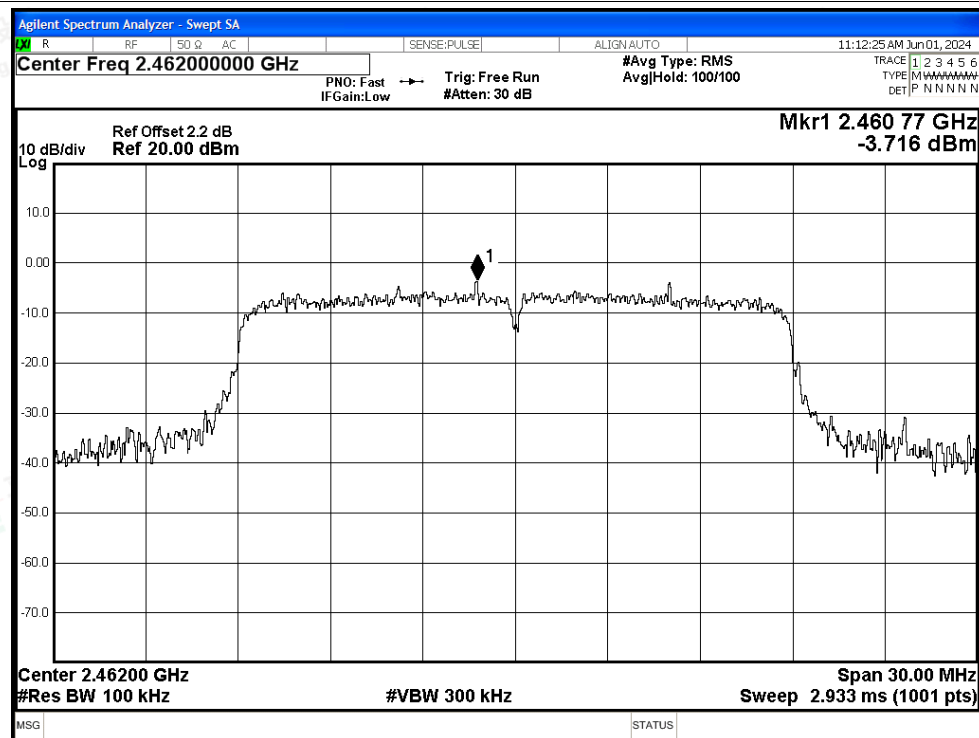


## Tx. Spurious NVNT n20 2437MHz Ant1 Emission

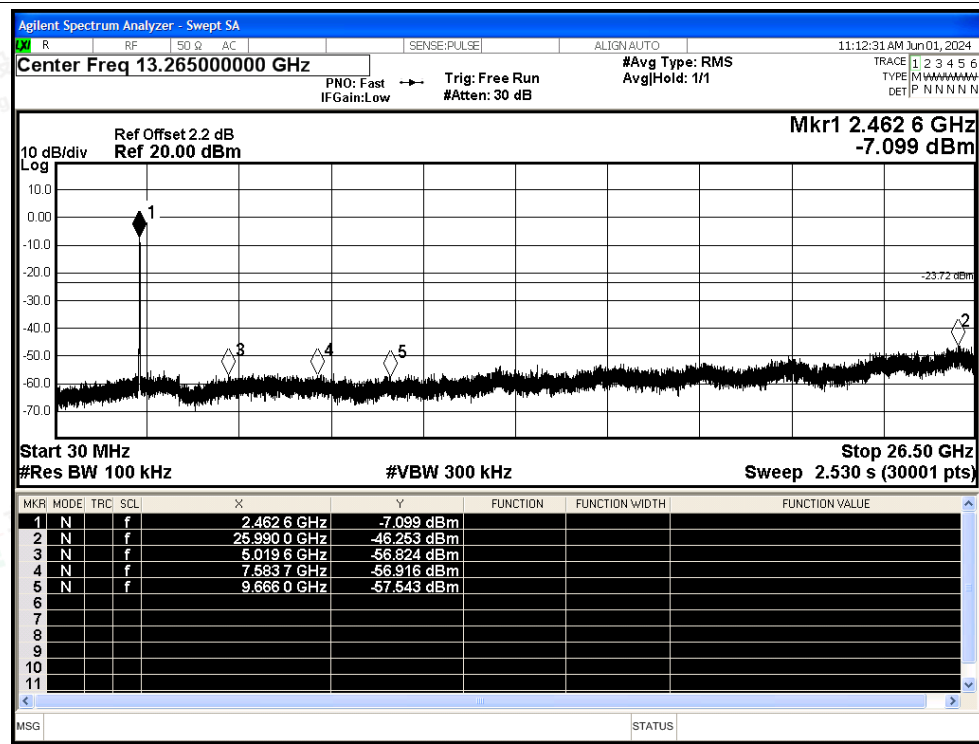




## Tx. Spurious NVNT n20 2462MHz Ant1 Ref



## Tx. Spurious NVNT n20 2462MHz Ant1 Emission





## B.6 Duty Cycle

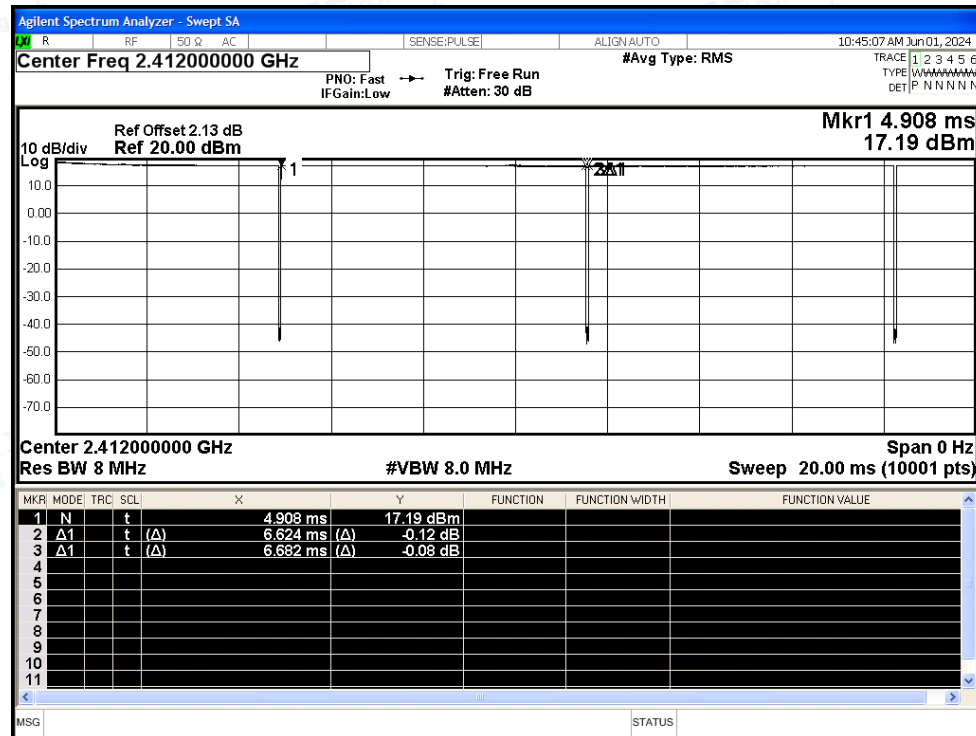
| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|------|-----------------|---------|----------------|------------------------|-----------|
| NVNT      | b    | 2412            | Ant1    | 99.13          | 0                      | 0.15      |
| NVNT      | b    | 2437            | Ant1    | 99.13          | 0                      | 0.15      |
| NVNT      | b    | 2462            | Ant1    | 99.13          | 0                      | 0.15      |
| NVNT      | g    | 2412            | Ant1    | 97.75          | 0.1                    | 0.37      |
| NVNT      | g    | 2437            | Ant1    | 97.68          | 0.1                    | 0.37      |
| NVNT      | g    | 2462            | Ant1    | 97.75          | 0.1                    | 0.37      |
| NVNT      | n20  | 2412            | Ant1    | 97.25          | 0.12                   | 0.44      |
| NVNT      | n20  | 2437            | Ant1    | 97.25          | 0.12                   | 0.44      |
| NVNT      | n20  | 2462            | Ant1    | 97.33          | 0.12                   | 0.44      |



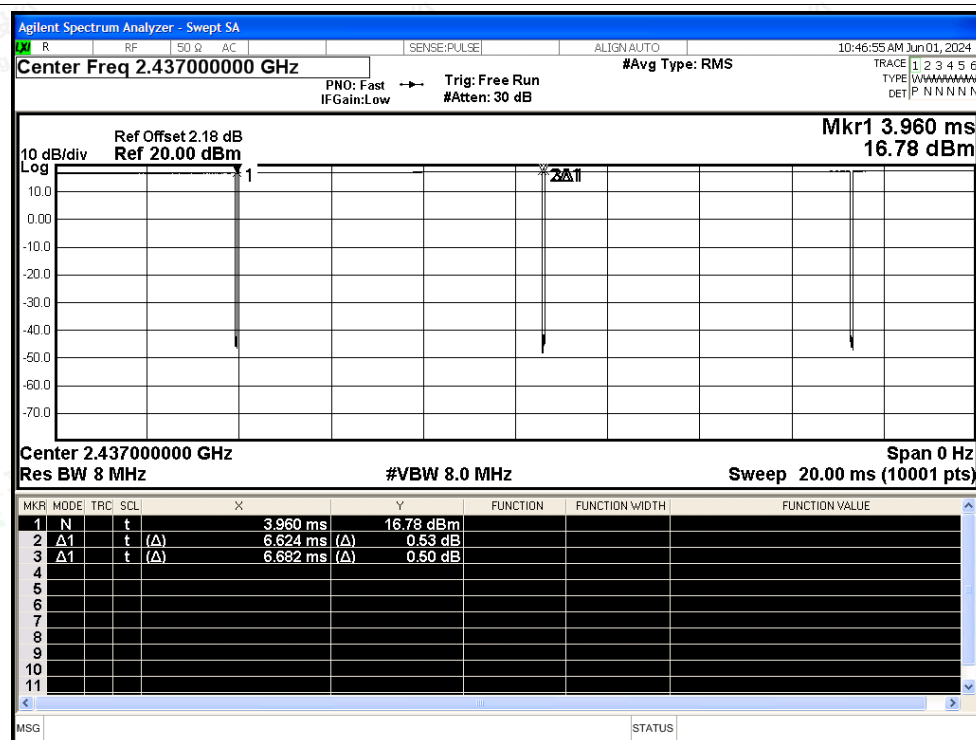


## Test Graphs

## Duty Cycle NVNT b 2412MHz Ant1

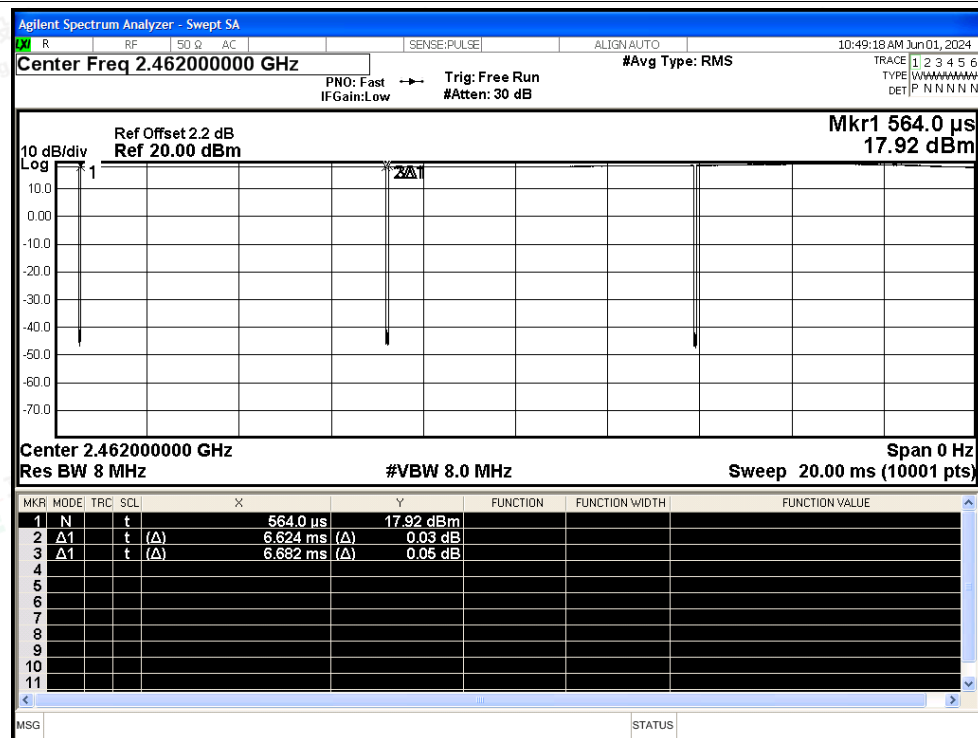


## Duty Cycle NVNT b 2437MHz Ant1

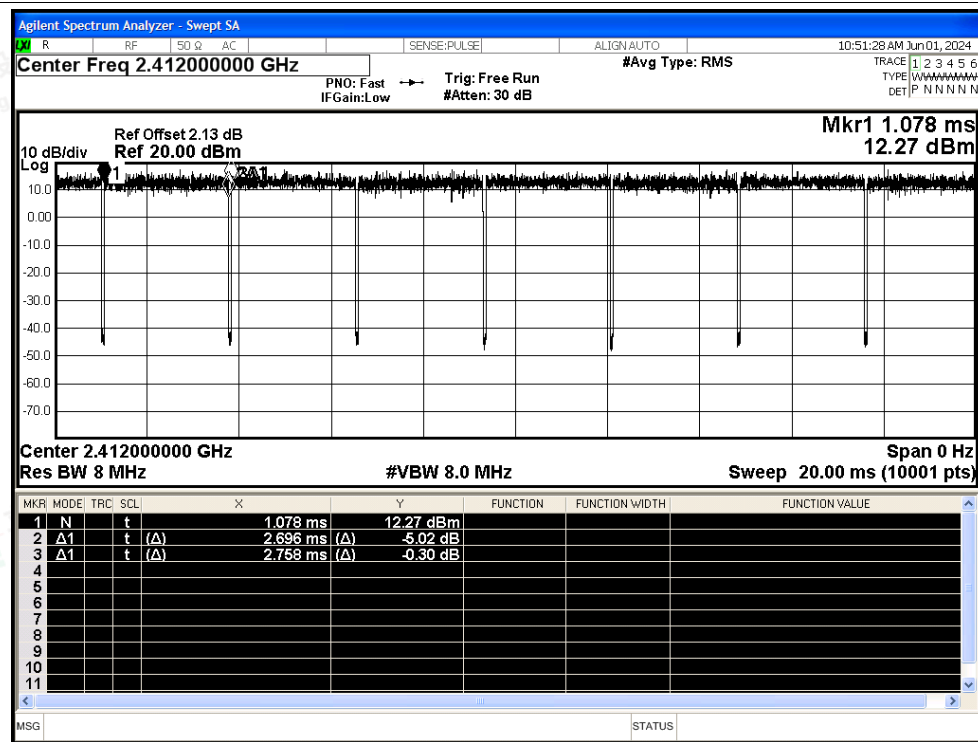




## Duty Cycle NVNT b 2462MHz Ant1

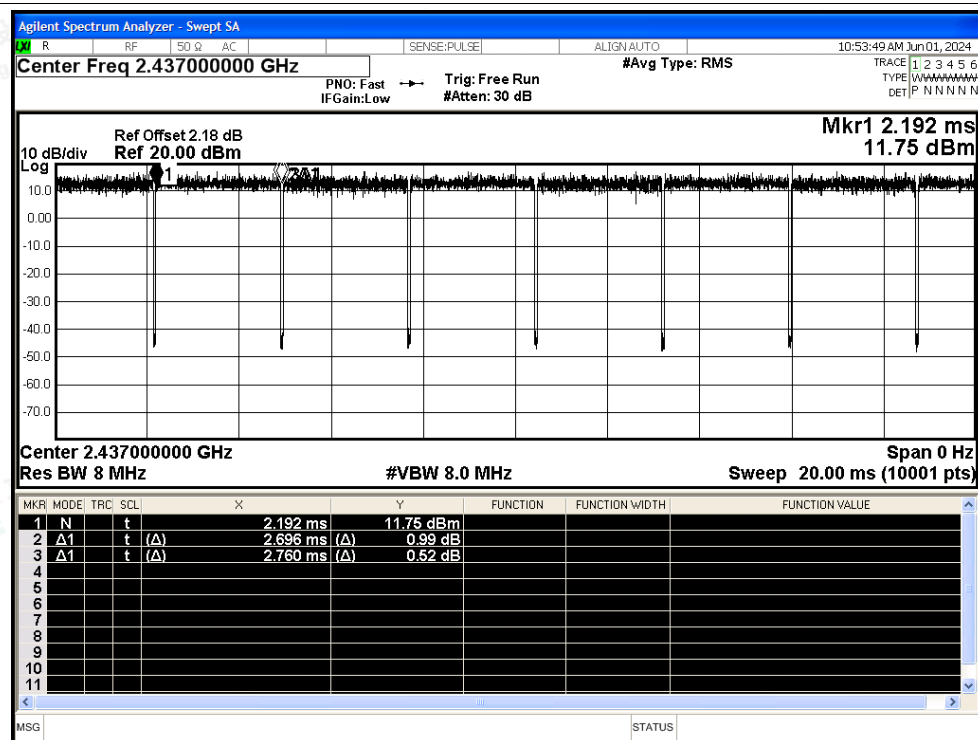


## Duty Cycle NVNT g 2412MHz Ant1

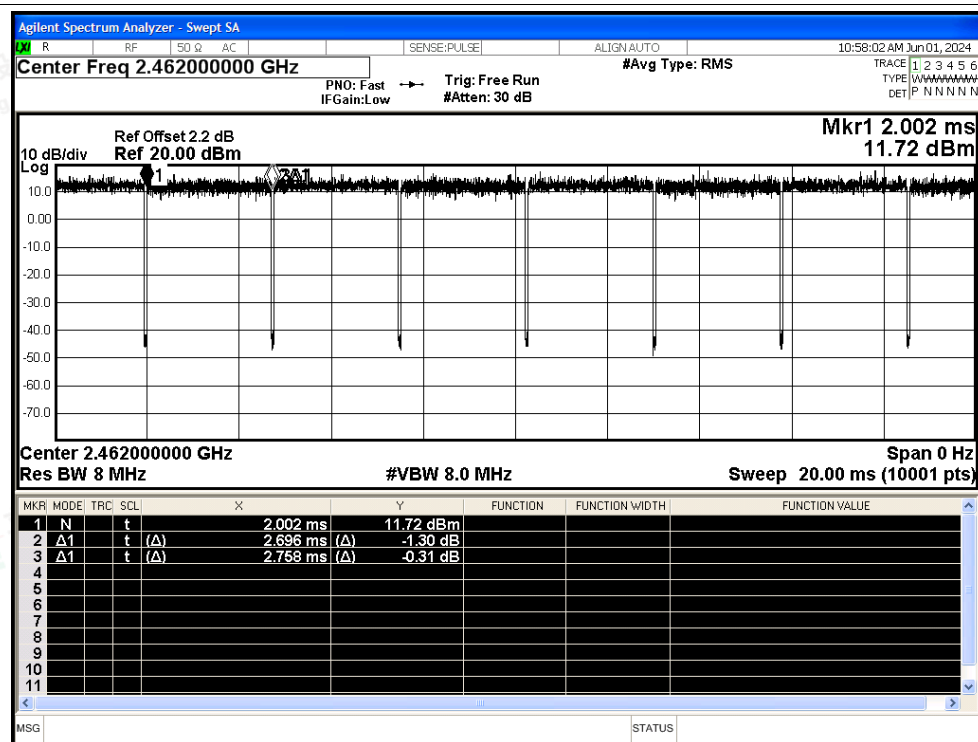




## Duty Cycle NVNT g 2437MHz Ant1

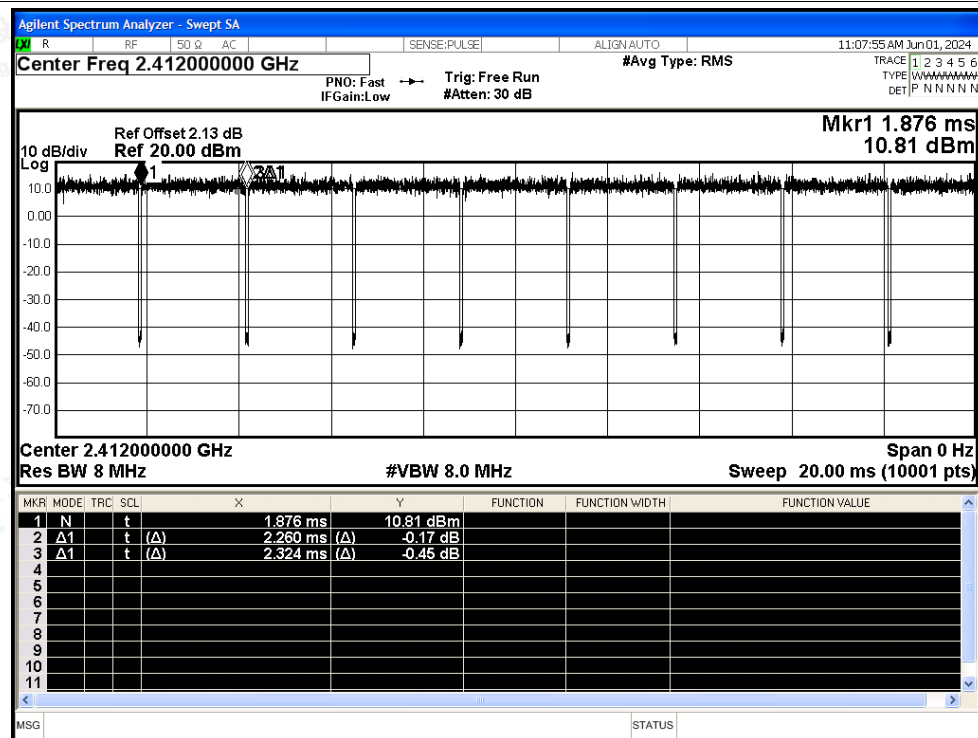


## Duty Cycle NVNT g 2462MHz Ant1

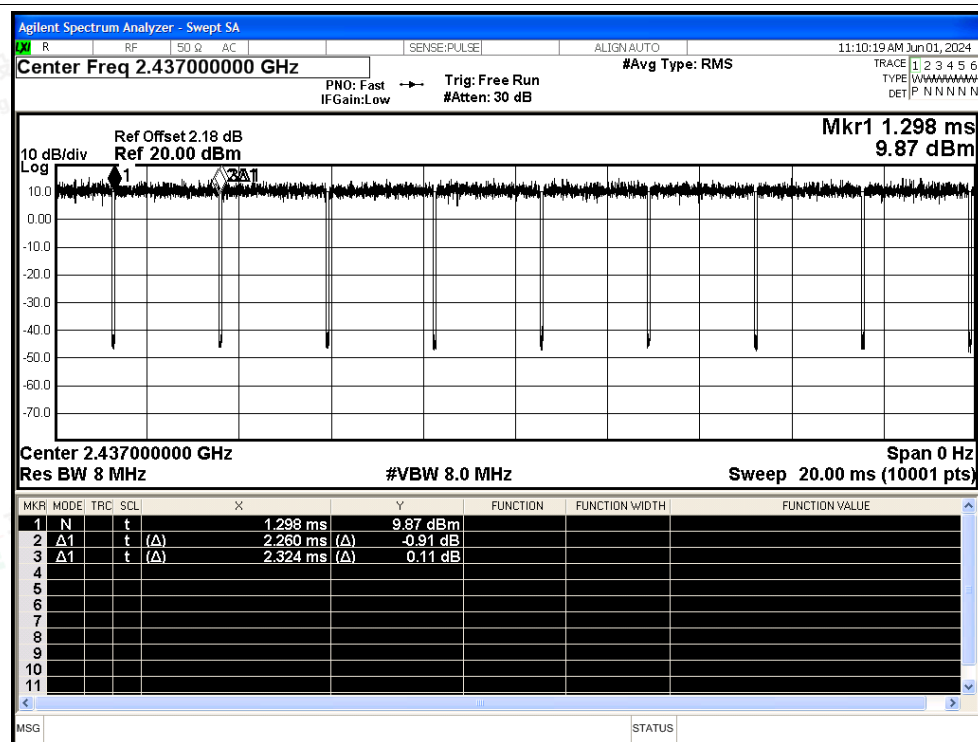


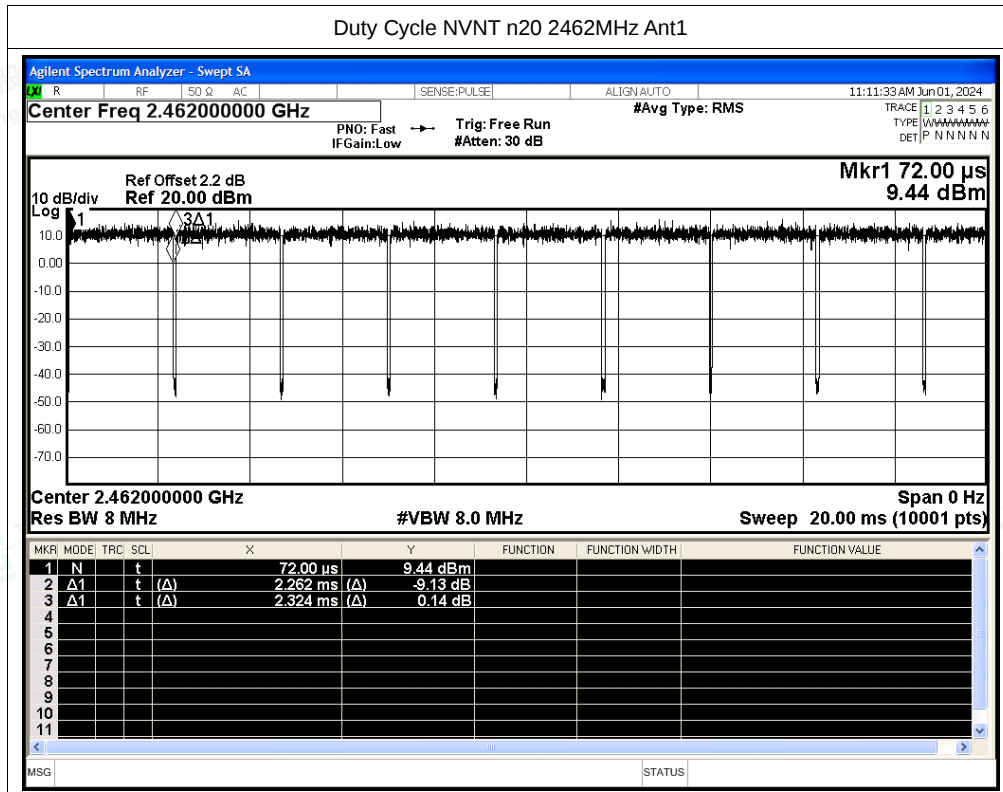


## Duty Cycle NVNT n20 2412MHz Ant1



## Duty Cycle NVNT n20 2437MHz Ant1







## B.7 Restrict Band

| Condition | Mode | Frequency<br>(MHz) | Antenna | Spur Freq<br>(MHz) | Power<br>(dBm) | Gain<br>(dBi) | Duty<br>Factor<br>(dB) | E<br>(dBuV/m) | Detector | Limit<br>(dBuV/m) | Verdict |
|-----------|------|--------------------|---------|--------------------|----------------|---------------|------------------------|---------------|----------|-------------------|---------|
| NVNT      | b    | 2412               | Ant1    | 2310               | -51.45         | 2.21          | -                      | 46.02         | Peak     | 74                | Pass    |
| NVNT      | b    | 2412               | Ant1    | 2310               | -58.21         | 2.21          | 0                      | 39.26         | Average  | 54                | Pass    |
| NVNT      | b    | 2412               | Ant1    | 2340.537           | -46.07         | 2.21          | -                      | 51.4          | Peak     | 74                | Pass    |
| NVNT      | b    | 2412               | Ant1    | 2389.677           | -56.4          | 2.21          | 0                      | 41.07         | Average  | 54                | Pass    |
| NVNT      | b    | 2412               | Ant1    | 2390               | -47.8          | 2.21          | -                      | 49.67         | Peak     | 74                | Pass    |
| NVNT      | b    | 2412               | Ant1    | 2390               | -56.54         | 2.21          | 0                      | 40.93         | Average  | 54                | Pass    |
| NVNT      | b    | 2462               | Ant1    | 2483.5             | -49.18         | 2.21          | -                      | 48.29         | Peak     | 74                | Pass    |
| NVNT      | b    | 2462               | Ant1    | 2483.5             | -56.16         | 2.21          | 0                      | 41.31         | Average  | 54                | Pass    |
| NVNT      | b    | 2462               | Ant1    | 2484.63            | -42.87         | 2.21          | -                      | 54.6          | Peak     | 74                | Pass    |
| NVNT      | b    | 2462               | Ant1    | 2484.524           | -55.14         | 2.21          | 0                      | 42.33         | Average  | 54                | Pass    |
| NVNT      | b    | 2462               | Ant1    | 2500               | -49.28         | 2.21          | -                      | 48.19         | Peak     | 74                | Pass    |
| NVNT      | b    | 2462               | Ant1    | 2500               | -57.73         | 2.21          | 0                      | 39.74         | Average  | 54                | Pass    |
| NVNT      | g    | 2412               | Ant1    | 2310               | -51.43         | 2.21          | -                      | 46.04         | Peak     | 74                | Pass    |
| NVNT      | g    | 2412               | Ant1    | 2310               | -58.83         | 2.21          | 0.1                    | 38.74         | Average  | 54                | Pass    |
| NVNT      | g    | 2412               | Ant1    | 2388.39            | -34.01         | 2.21          | -                      | 63.46         | Peak     | 74                | Pass    |
| NVNT      | g    | 2412               | Ant1    | 2389.794           | -52.44         | 2.21          | 0.1                    | 45.13         | Average  | 54                | Pass    |
| NVNT      | g    | 2412               | Ant1    | 2390               | -36.79         | 2.21          | -                      | 60.68         | Peak     | 74                | Pass    |
| NVNT      | g    | 2412               | Ant1    | 2390               | -54.33         | 2.21          | 0.1                    | 43.24         | Average  | 54                | Pass    |
| NVNT      | g    | 2462               | Ant1    | 2483.5             | -40.97         | 2.21          | -                      | 56.5          | Peak     | 74                | Pass    |
| NVNT      | g    | 2462               | Ant1    | 2483.5             | -54.86         | 2.21          | 0.1                    | 42.71         | Average  | 54                | Pass    |
| NVNT      | g    | 2462               | Ant1    | 2484.047           | -36.83         | 2.21          | -                      | 60.64         | Peak     | 74                | Pass    |
| NVNT      | g    | 2462               | Ant1    | 2483.835           | -53.44         | 2.21          | 0.1                    | 44.13         | Average  | 54                | Pass    |
| NVNT      | g    | 2462               | Ant1    | 2500               | -50.81         | 2.21          | -                      | 46.66         | Peak     | 74                | Pass    |
| NVNT      | g    | 2462               | Ant1    | 2500               | -58.12         | 2.21          | 0.1                    | 39.45         | Average  | 54                | Pass    |
| NVNT      | n20  | 2412               | Ant1    | 2310               | -49.28         | 2.21          | -                      | 48.19         | Peak     | 74                | Pass    |
| NVNT      | n20  | 2412               | Ant1    | 2310               | -58.26         | 2.21          | 0.12                   | 39.33         | Average  | 54                | Pass    |
| NVNT      | n20  | 2412               | Ant1    | 2388.741           | -36.36         | 2.21          | -                      | 61.11         | Peak     | 74                | Pass    |
| NVNT      | n20  | 2412               | Ant1    | 2389.209           | -51.7          | 2.21          | 0.12                   | 45.89         | Average  | 54                | Pass    |
| NVNT      | n20  | 2412               | Ant1    | 2390               | -34.75         | 2.21          | -                      | 62.72         | Peak     | 74                | Pass    |
| NVNT      | n20  | 2412               | Ant1    | 2390               | -51.83         | 2.21          | 0.12                   | 45.76         | Average  | 54                | Pass    |
| NVNT      | n20  | 2462               | Ant1    | 2483.5             | -40.96         | 2.21          | -                      | 56.51         | Peak     | 74                | Pass    |
| NVNT      | n20  | 2462               | Ant1    | 2483.5             | -54.05         | 2.21          | 0.12                   | 43.54         | Average  | 54                | Pass    |
| NVNT      | n20  | 2462               | Ant1    | 2483.941           | -37.58         | 2.21          | -                      | 59.89         | Peak     | 74                | Pass    |
| NVNT      | n20  | 2462               | Ant1    | 2483.729           | -52.72         | 2.21          | 0.12                   | 44.87         | Average  | 54                | Pass    |
| NVNT      | n20  | 2462               | Ant1    | 2500               | -50.54         | 2.21          | -                      | 46.93         | Peak     | 74                | Pass    |
| NVNT      | n20  | 2462               | Ant1    | 2500               | -58.04         | 2.21          | 0.12                   | 39.55         | Average  | 54                | Pass    |

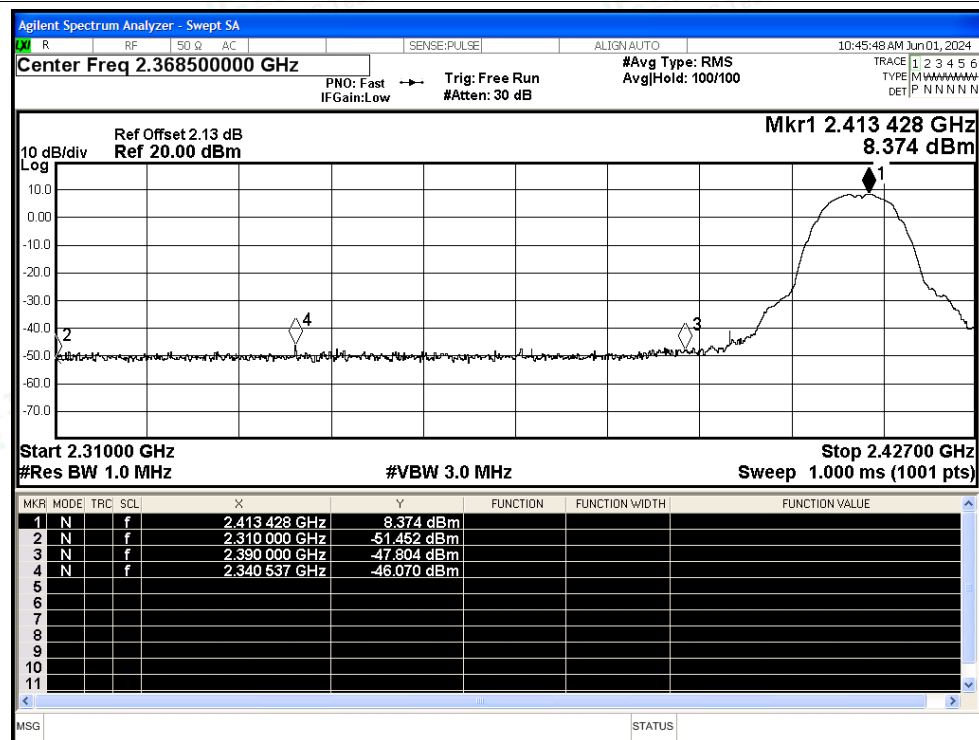


Shenzhen LCS Compliance Testing Laboratory Ltd.  
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen,  
518000, China  
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com  
Scan code to check authenticity

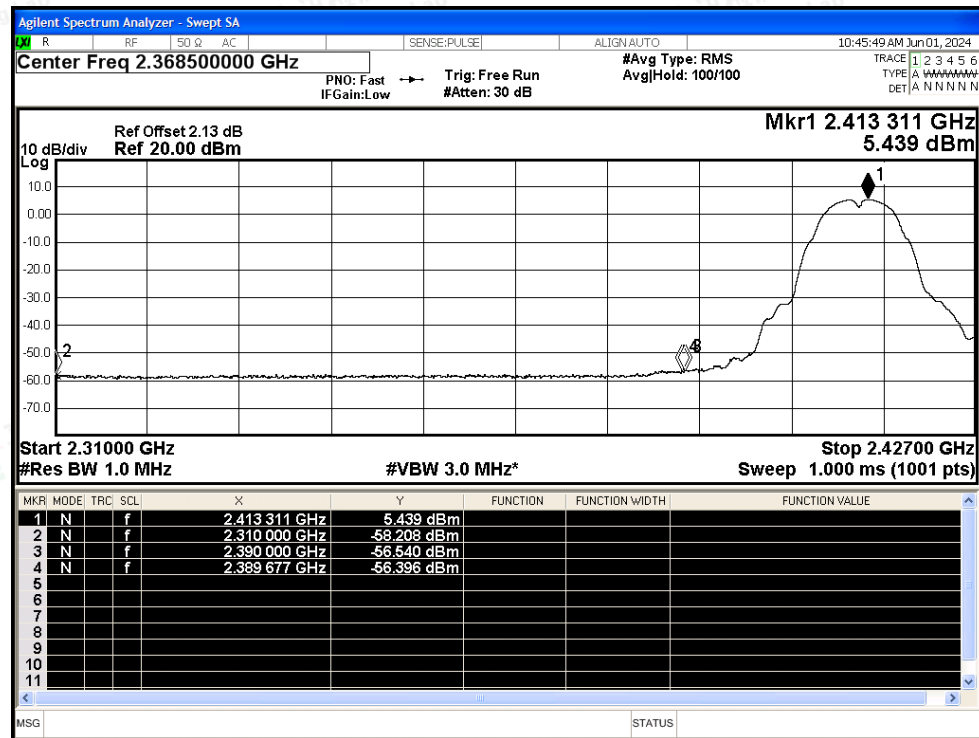


## Test Graphs

## Restrict Band NVNT b 2412MHz Ant1 Peak

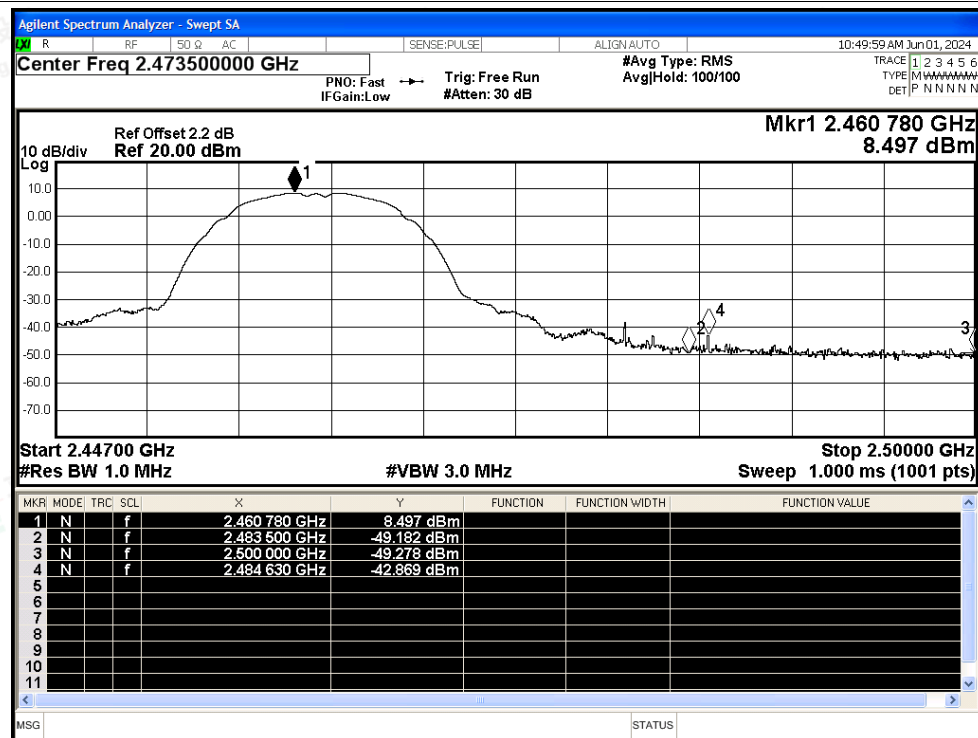


## Restrict Band NVNT b 2412MHz Ant1 Average

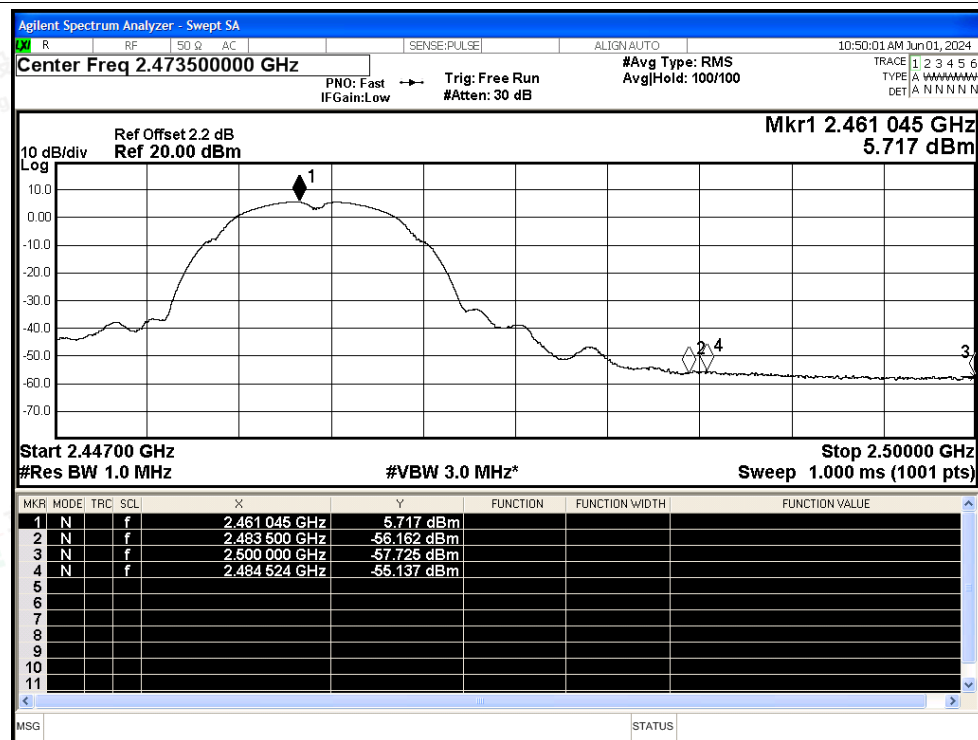




## Restrict Band NVNT b 2462MHz Ant1 Peak

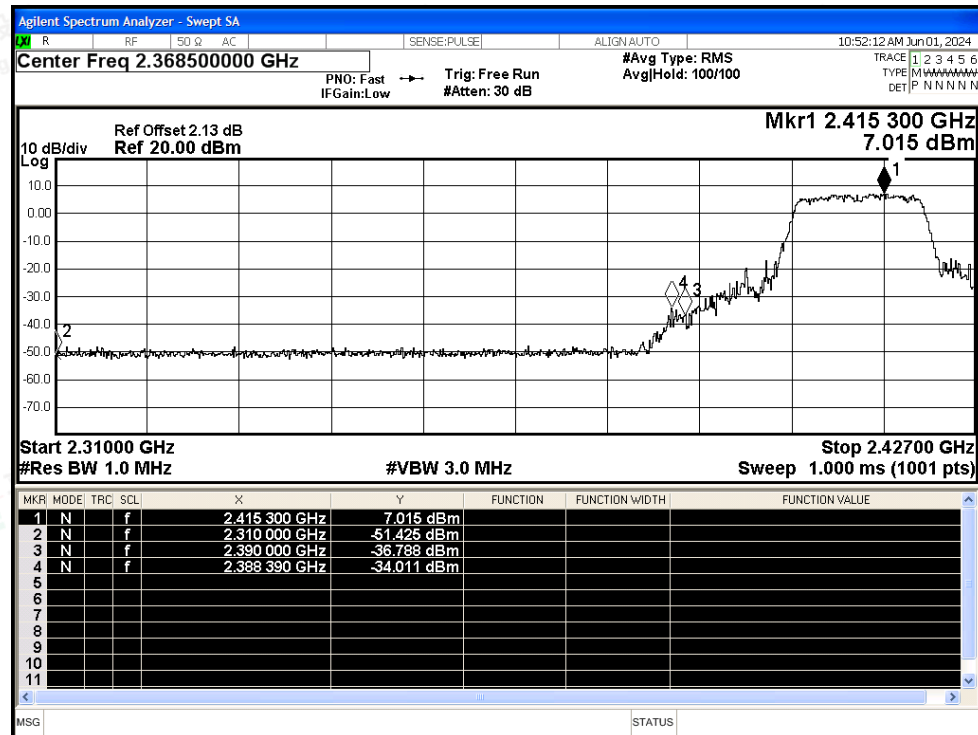


## Restrict Band NVNT b 2462MHz Ant1 Average

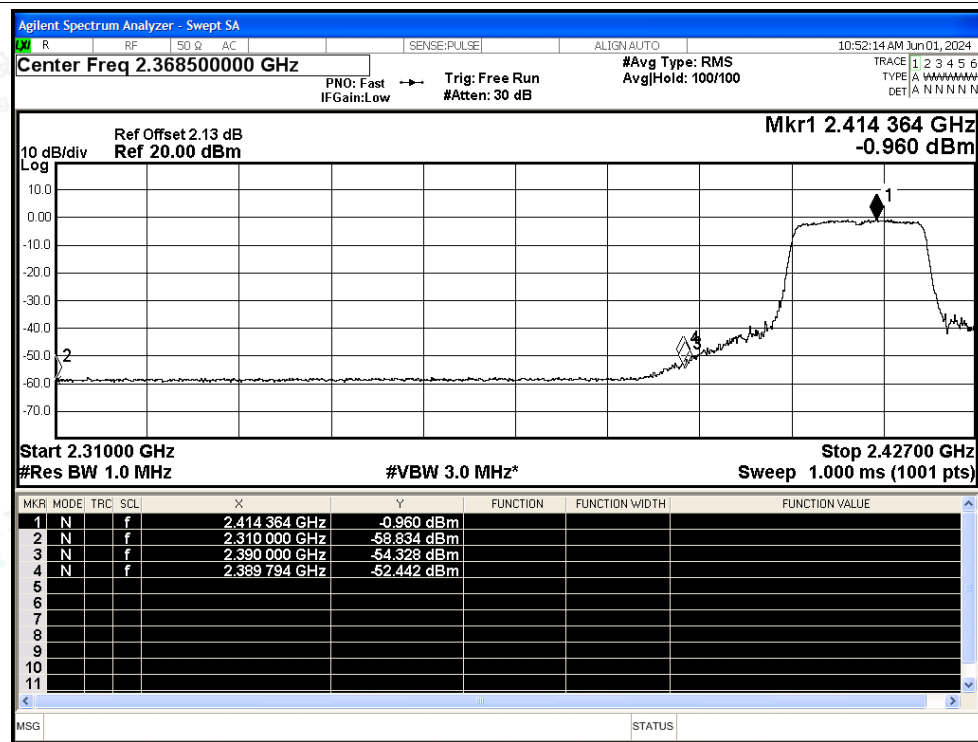




## Restrict Band NVNT g 2412MHz Ant1 Peak

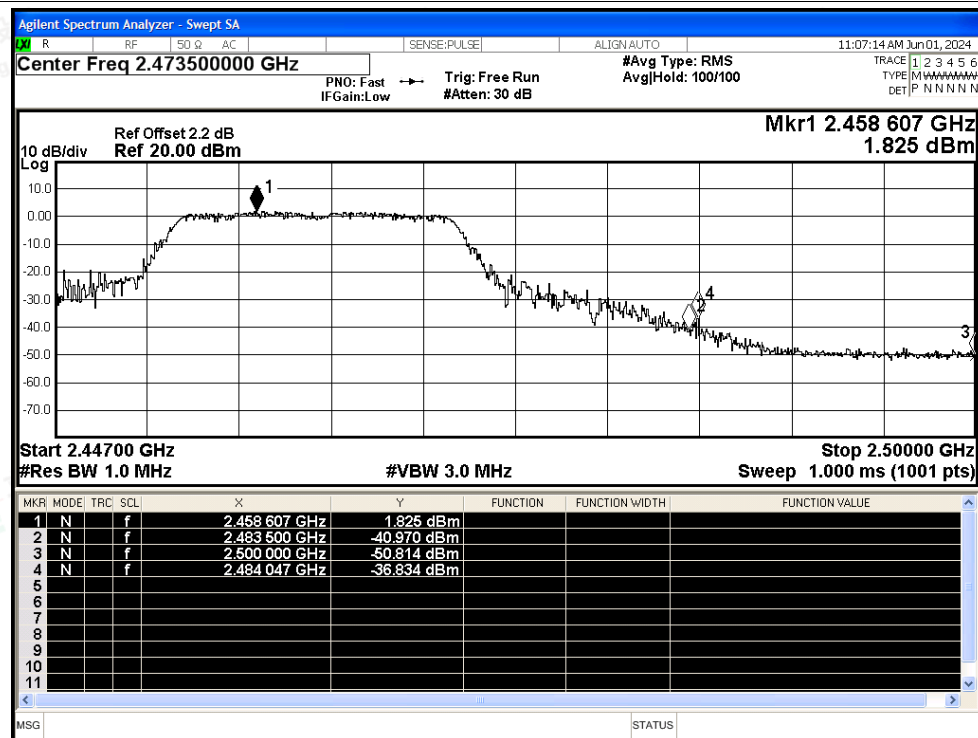


## Restrict Band NVNT g 2412MHz Ant1 Average

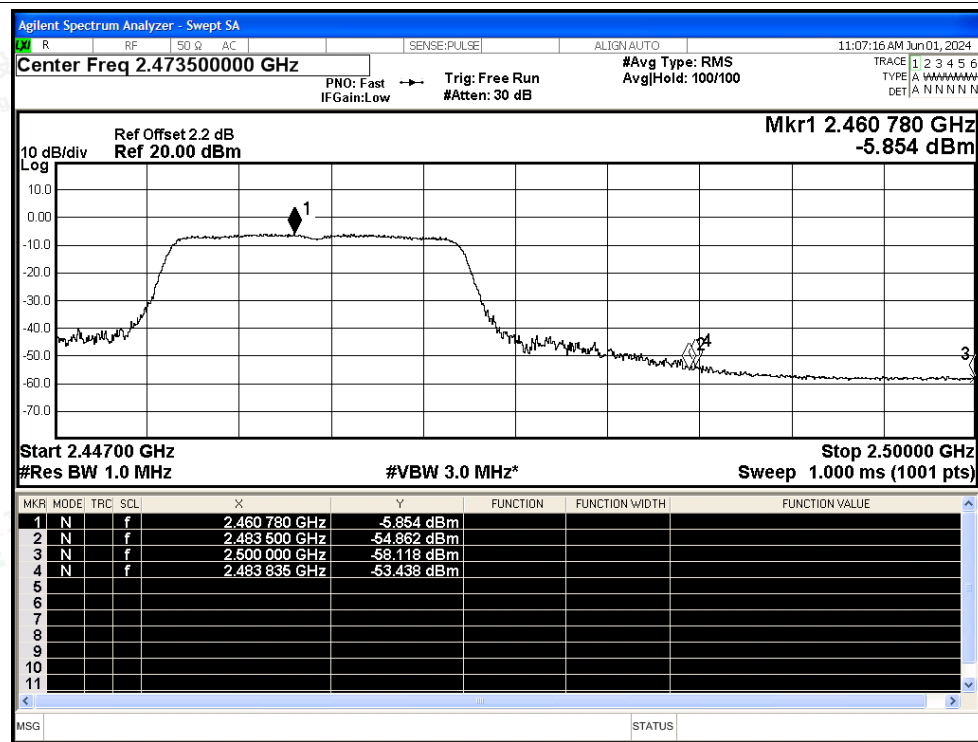




## Restrict Band NVNT g 2462MHz Ant1 Peak

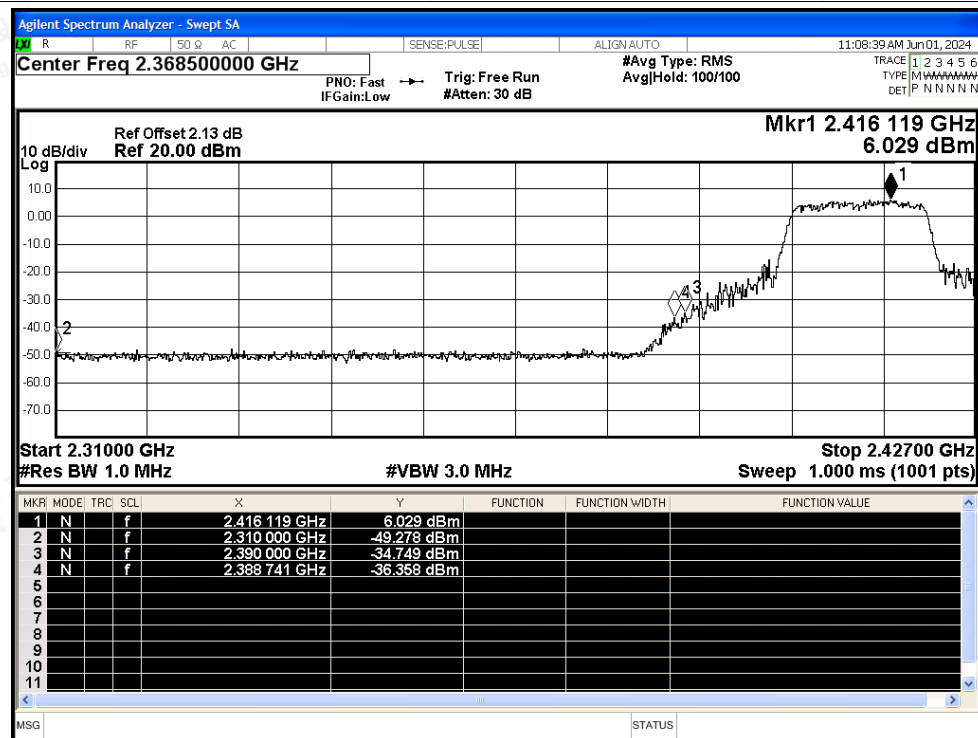


## Restrict Band NVNT g 2462MHz Ant1 Average

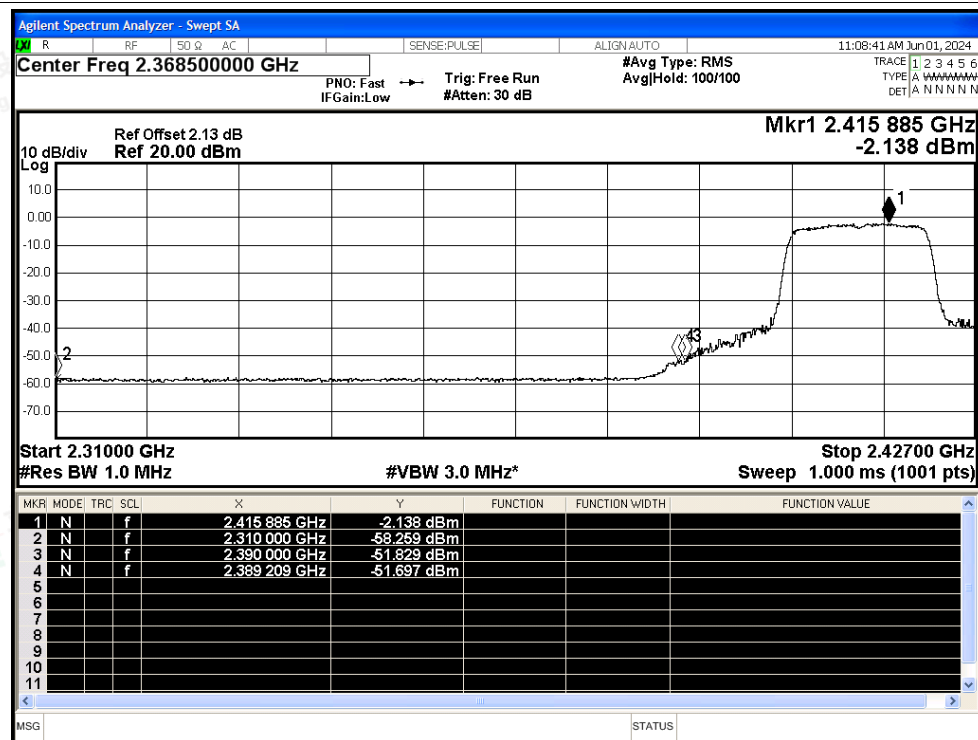




## Restrict Band NVNT n20 2412MHz Ant1 Peak

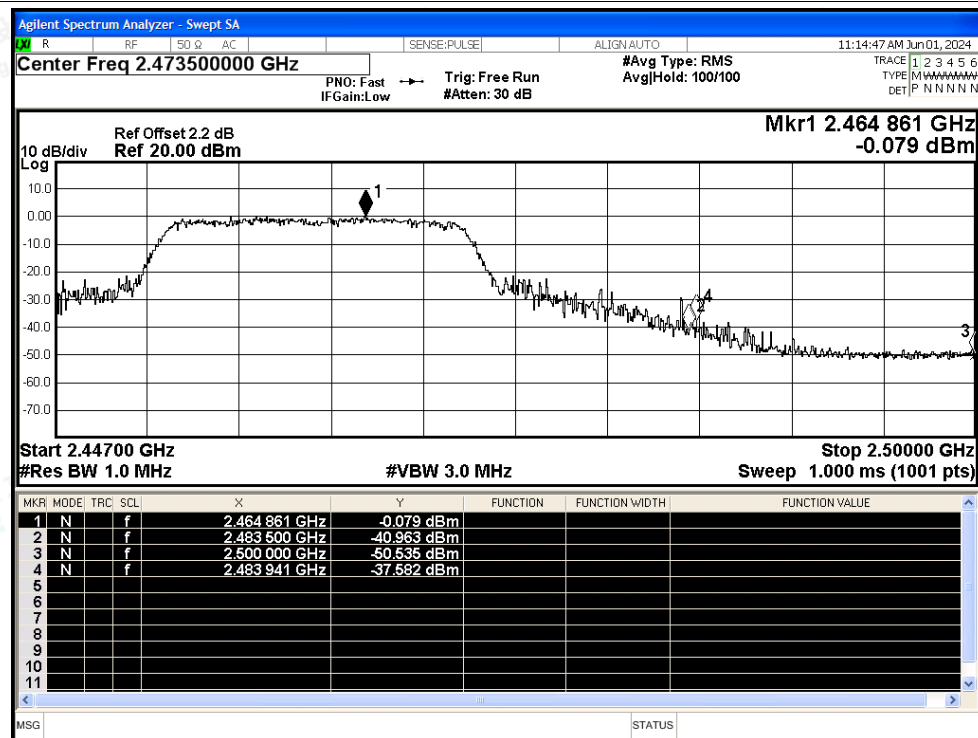


## Restrict Band NVNT n20 2412MHz Ant1 Average





## Restrict Band NVNT n20 2462MHz Ant1 Peak



## Restrict Band NVNT n20 2462MHz Ant1 Average

