



## Appendix F

### RF Test Data for 5.5GWIFI(Conducted Measurement)

Product Name: AAWireless Mini

Test Model: AMP

#### Environmental Conditions

|                    |            |
|--------------------|------------|
| Temperature:       | 23.8° C    |
| Relative Humidity: | 52.1%      |
| ATM Pressure:      | 100.0 kPa  |
| Test Engineer:     | Paddi Chen |
| Supervised by:     | Nick Peng  |



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## F.1 -26dB Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | -26 dB Bandwidth (MHz) | Limit -26 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|------------------------|------------------------------|---------|
| NVNT      | a    | 5500            | Ant1    | 29.143                 | ---                          | Pass    |
| NVNT      | a    | 5580            | Ant1    | 25.964                 | ---                          | Pass    |
| NVNT      | a    | 5700            | Ant1    | 26.145                 | ---                          | Pass    |
| NVNT      | n20  | 5500            | Ant1    | 28.682                 | ---                          | Pass    |
| NVNT      | n20  | 5580            | Ant1    | 28.038                 | ---                          | Pass    |
| NVNT      | n20  | 5700            | Ant1    | 27.863                 | ---                          | Pass    |
| NVNT      | n40  | 5510            | Ant1    | 45.143                 | ---                          | Pass    |
| NVNT      | n40  | 5550            | Ant1    | 54.149                 | ---                          | Pass    |
| NVNT      | n40  | 5670            | Ant1    | 45.904                 | ---                          | Pass    |

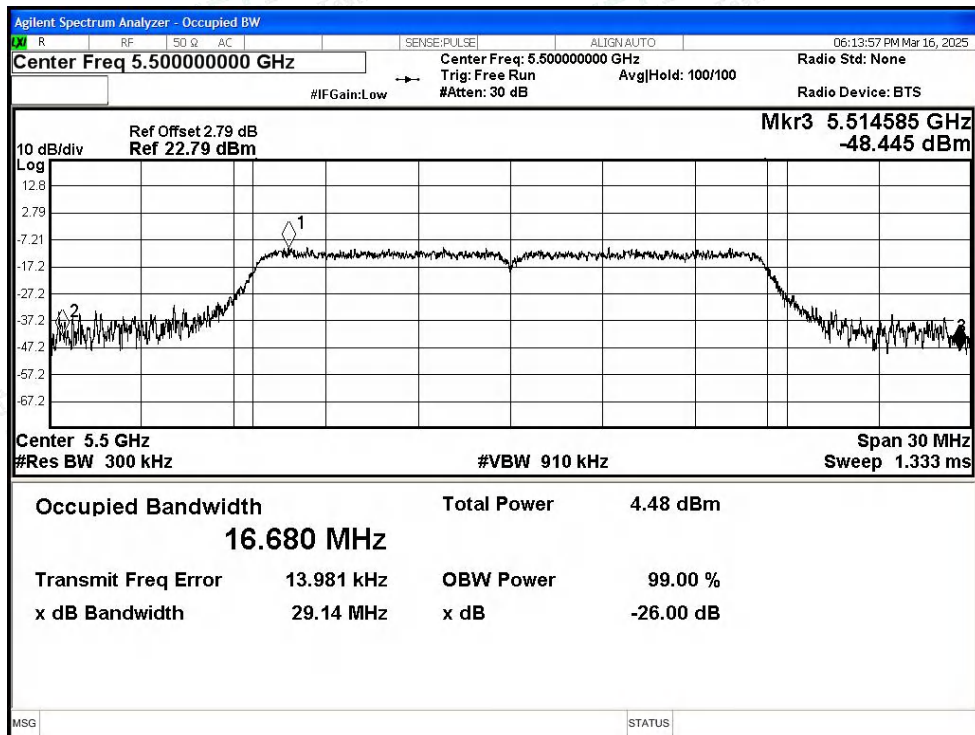


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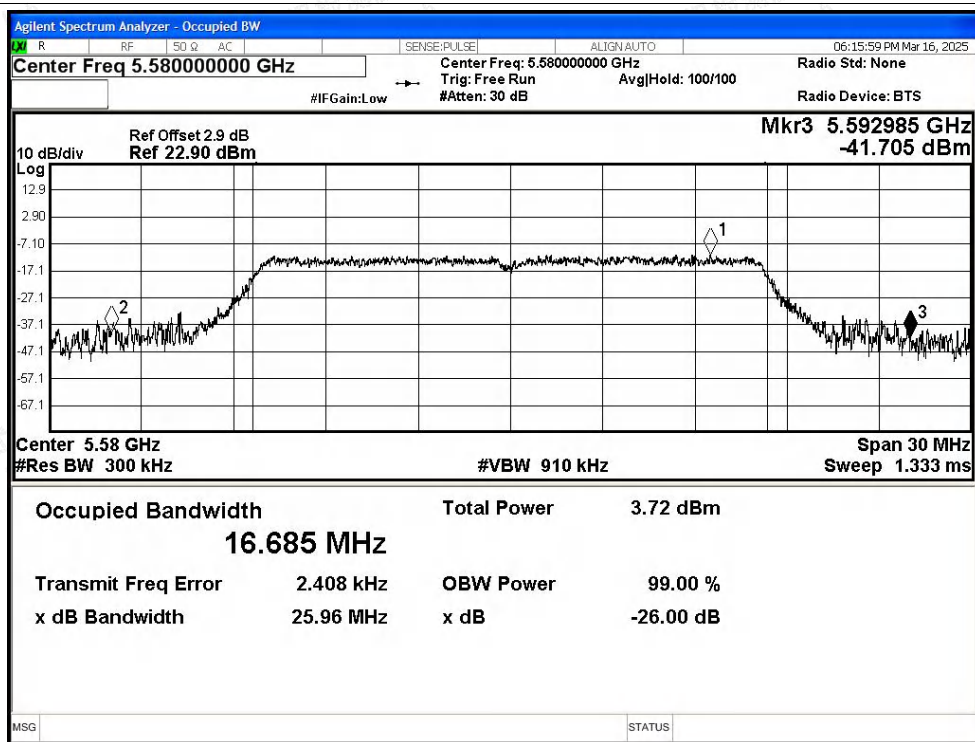


## Test Graphs

-26dB Bandwidth NVNT a 5500MHz Ant1

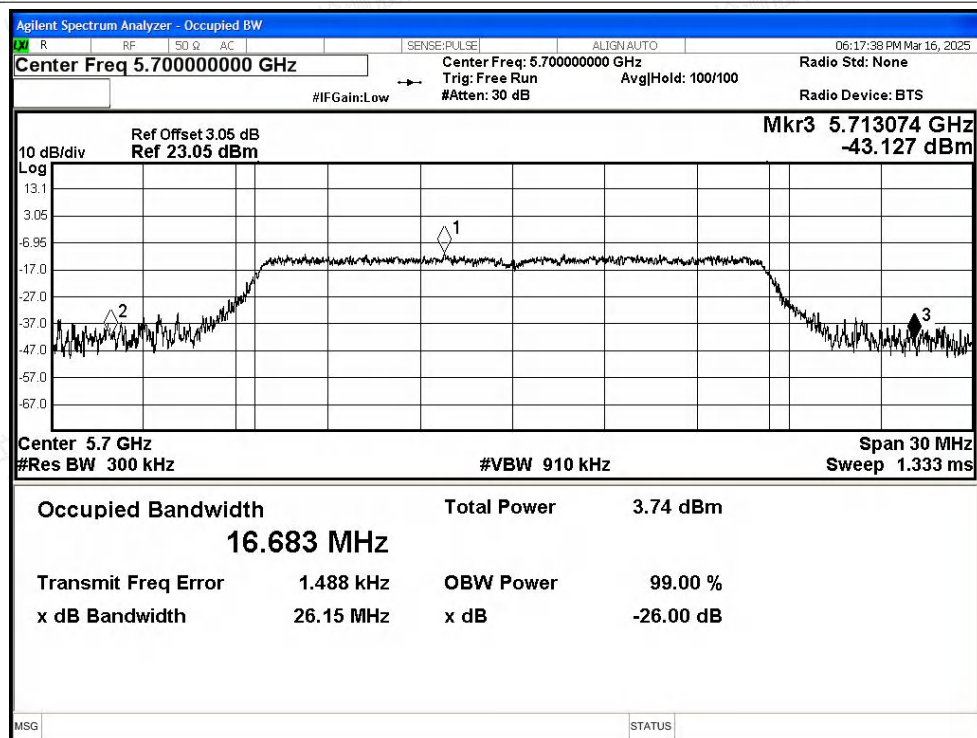


-26dB Bandwidth NVNT a 5580MHz Ant1

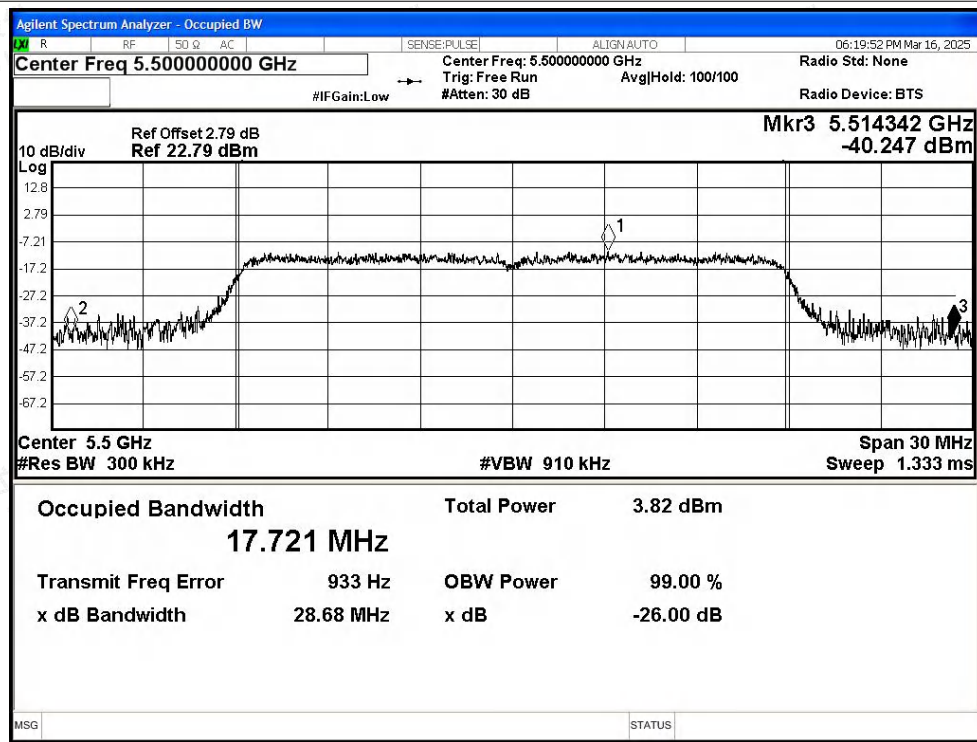




## -26dB Bandwidth NVNT a 5700MHz Ant1

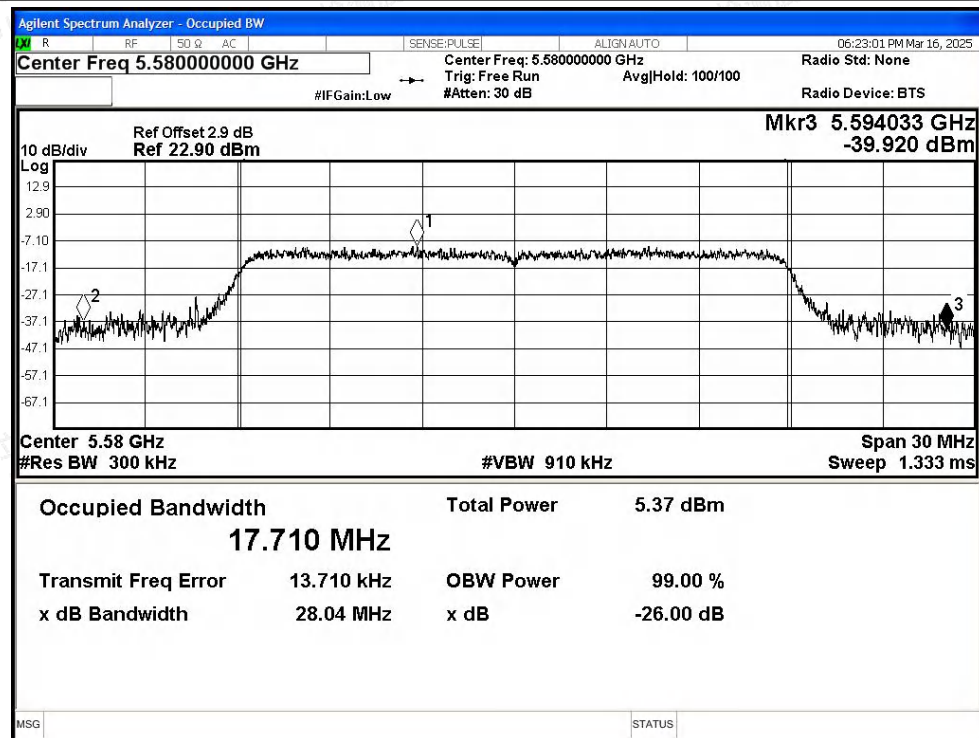


## -26dB Bandwidth NVNT n20 5500MHz Ant1

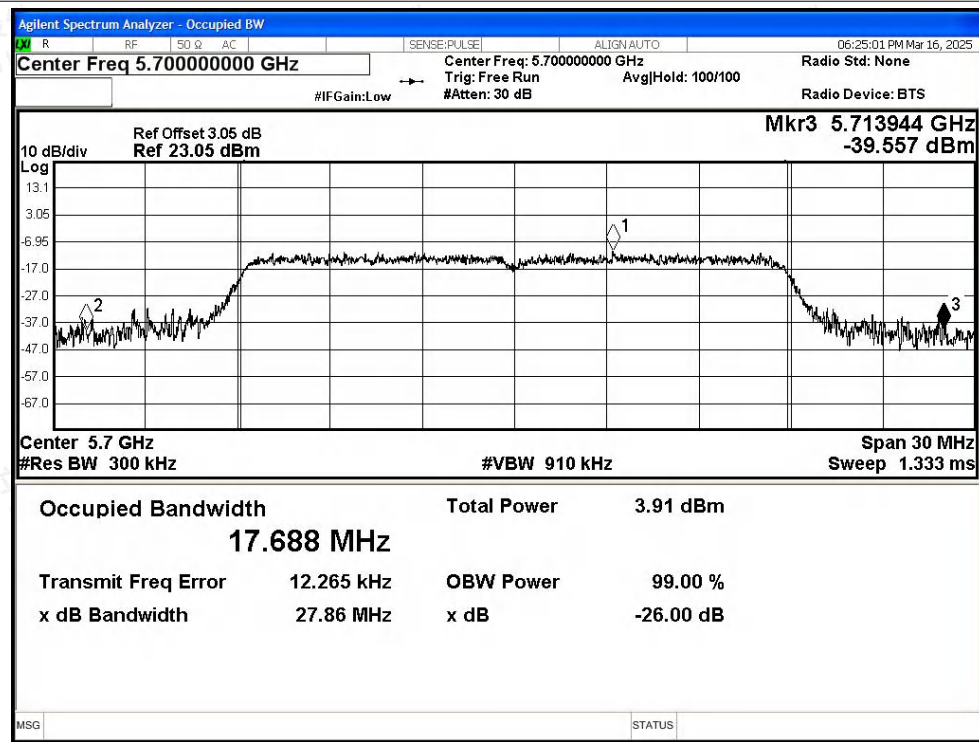




## -26dB Bandwidth NVNT n20 5580MHz Ant1

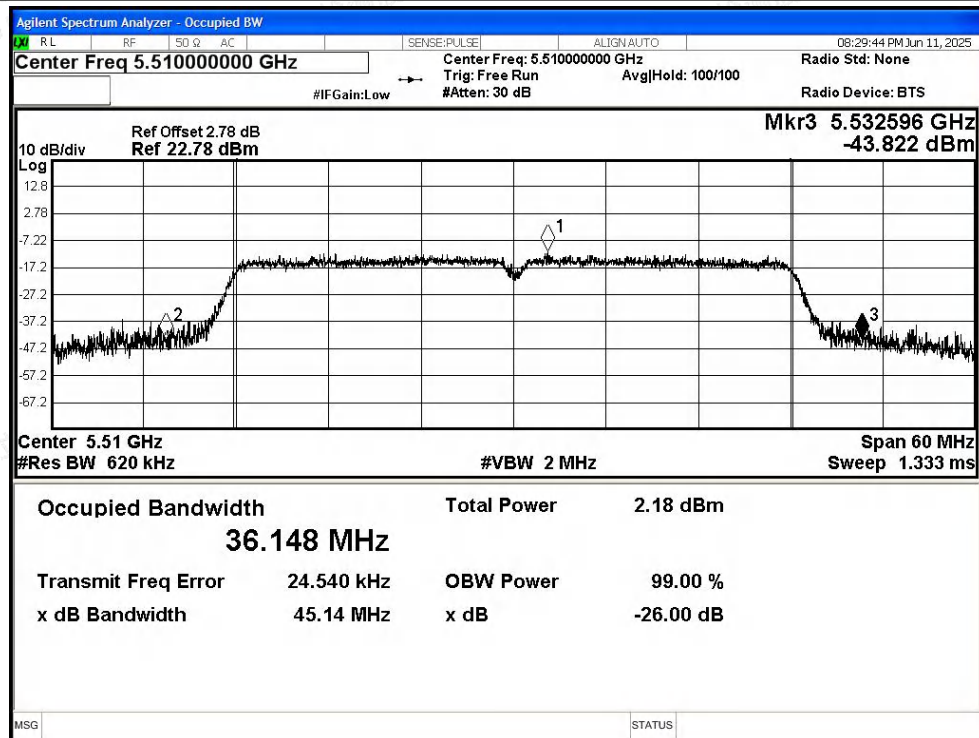


## -26dB Bandwidth NVNT n20 5700MHz Ant1

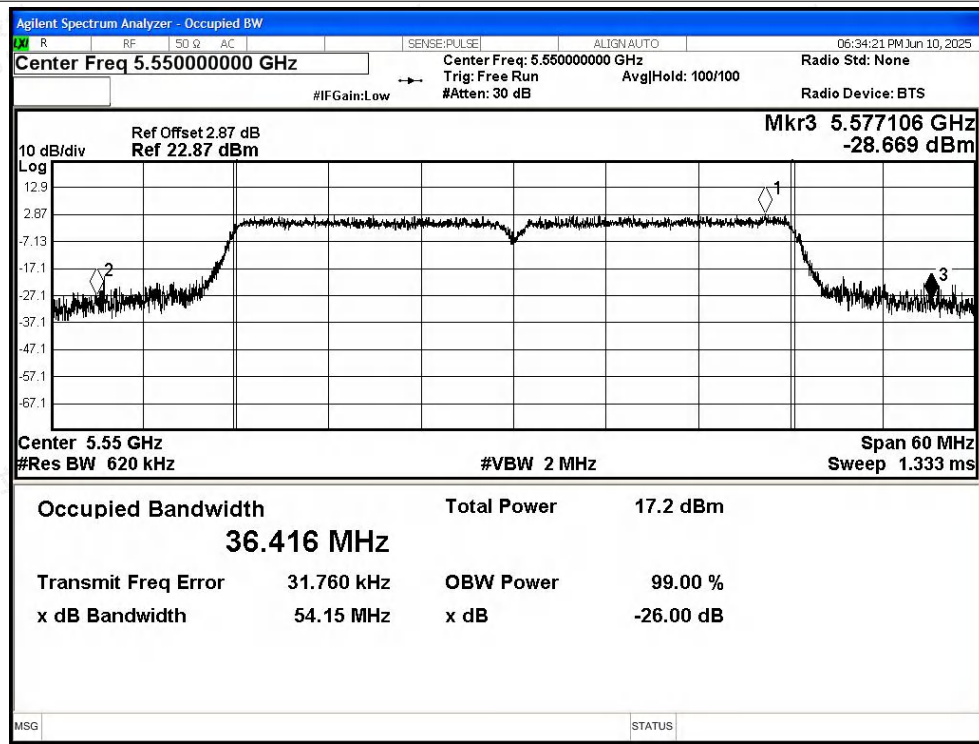


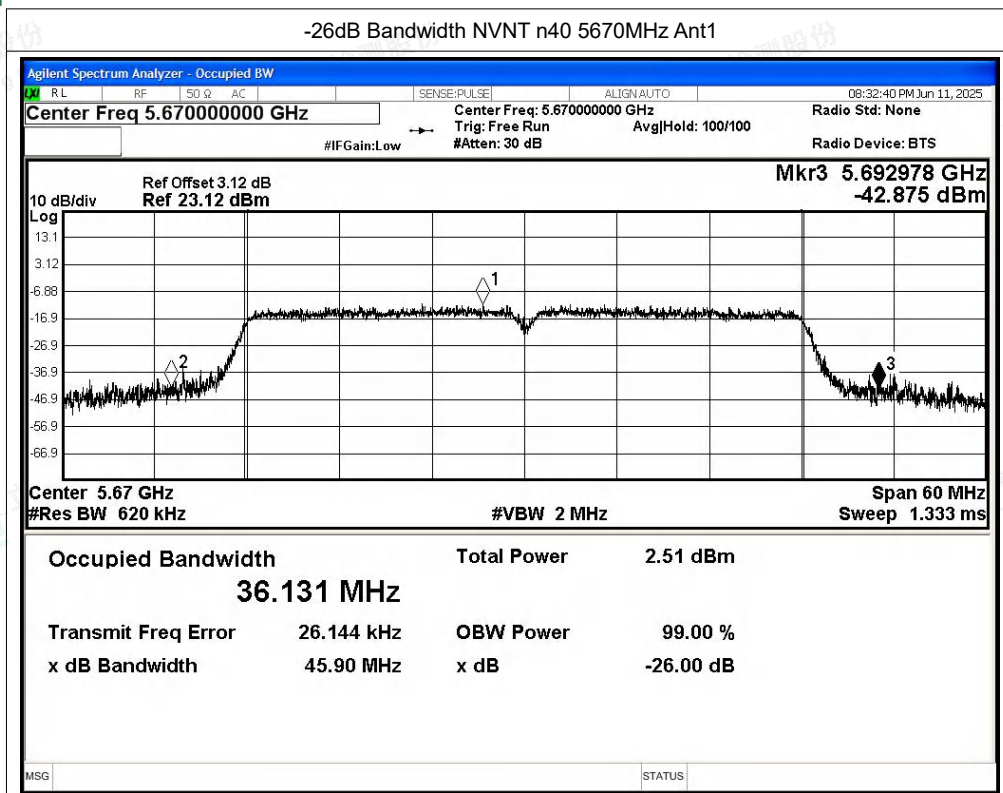


## -26dB Bandwidth NVNT n40 5510MHz Ant1



## -26dB Bandwidth NVNT n40 5550MHz Ant1







## F.2 Maximum Conducted Output Power

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Duty Factor (dB) | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|------------------|-------------------|-------------|---------|
| NVNT      | a    | 5500            | Ant1    | -5.71                 | 0.24             | -5.47             | 24          | Pass    |
| NVNT      | a    | 5580            | Ant1    | -5.87                 | 0.24             | -5.63             | 24          | Pass    |
| NVNT      | a    | 5700            | Ant1    | -5.41                 | 0.24             | -5.17             | 24          | Pass    |
| NVNT      | n20  | 5500            | Ant1    | -5.45                 | 0.12             | -5.33             | 24          | Pass    |
| NVNT      | n20  | 5580            | Ant1    | -5.54                 | 0.12             | -5.42             | 24          | Pass    |
| NVNT      | n20  | 5700            | Ant1    | -5.18                 | 0.12             | -5.06             | 24          | Pass    |
| NVNT      | n40  | 5510            | Ant1    | -4.58                 | 0.24             | -4.34             | 24          | Pass    |
| NVNT      | n40  | 5550            | Ant1    | -4.54                 | 0.24             | -4.3              | 24          | Pass    |
| NVNT      | n40  | 5670            | Ant1    | -4.69                 | 0.24             | -4.45             | 24          | Pass    |



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### F.3 Maximum Power Spectral Density Level

| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm/MHz) | Duty Factor (dB) | Total PSD (dBm/MHz) | Limit (dBm/MHz) | Verdict |
|-----------|------|-----------------|---------|-------------------------|------------------|---------------------|-----------------|---------|
| NVNT      | a    | 5500            | Ant1    | -16.49                  | 0.24             | -16.25              | 11              | Pass    |
| NVNT      | a    | 5580            | Ant1    | -16.64                  | 0.24             | -16.4               | 11              | Pass    |
| NVNT      | a    | 5700            | Ant1    | -15.86                  | 0.24             | -15.62              | 11              | Pass    |
| NVNT      | n20  | 5500            | Ant1    | -16.41                  | 0.12             | -16.29              | 11              | Pass    |
| NVNT      | n20  | 5580            | Ant1    | -16.43                  | 0.12             | -16.31              | 11              | Pass    |
| NVNT      | n20  | 5700            | Ant1    | -15.82                  | 0.12             | -15.7               | 11              | Pass    |
| NVNT      | n40  | 5510            | Ant1    | -18.2                   | 0.24             | -17.96              | 11              | Pass    |
| NVNT      | n40  | 5550            | Ant1    | -17.99                  | 0.24             | -17.75              | 11              | Pass    |
| NVNT      | n40  | 5670            | Ant1    | -18.44                  | 0.24             | -18.2               | 11              | Pass    |

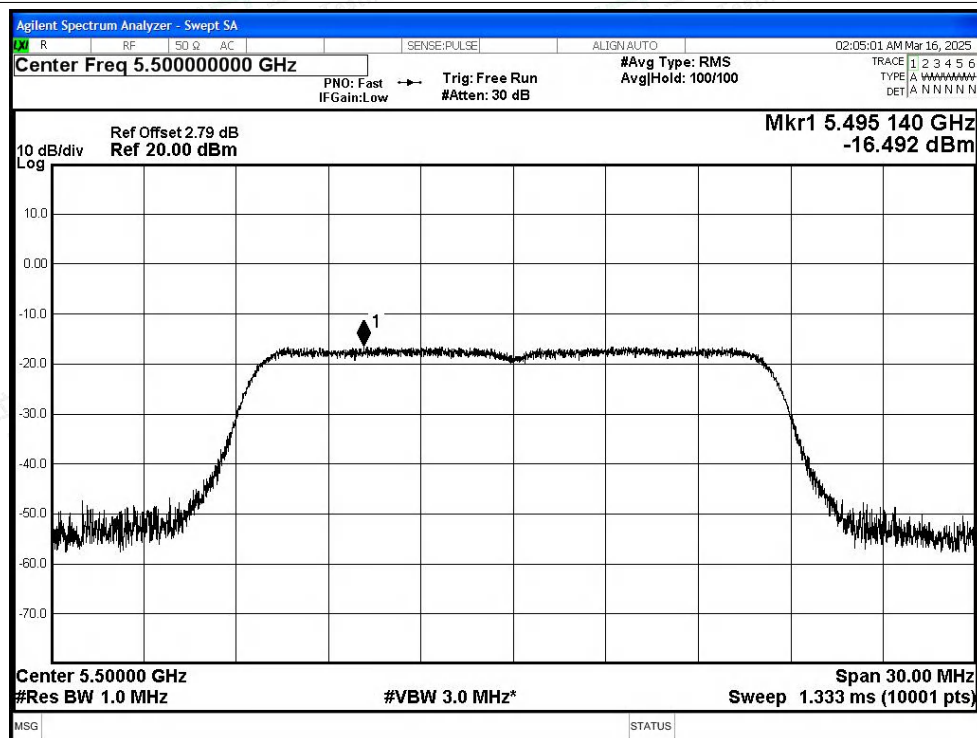


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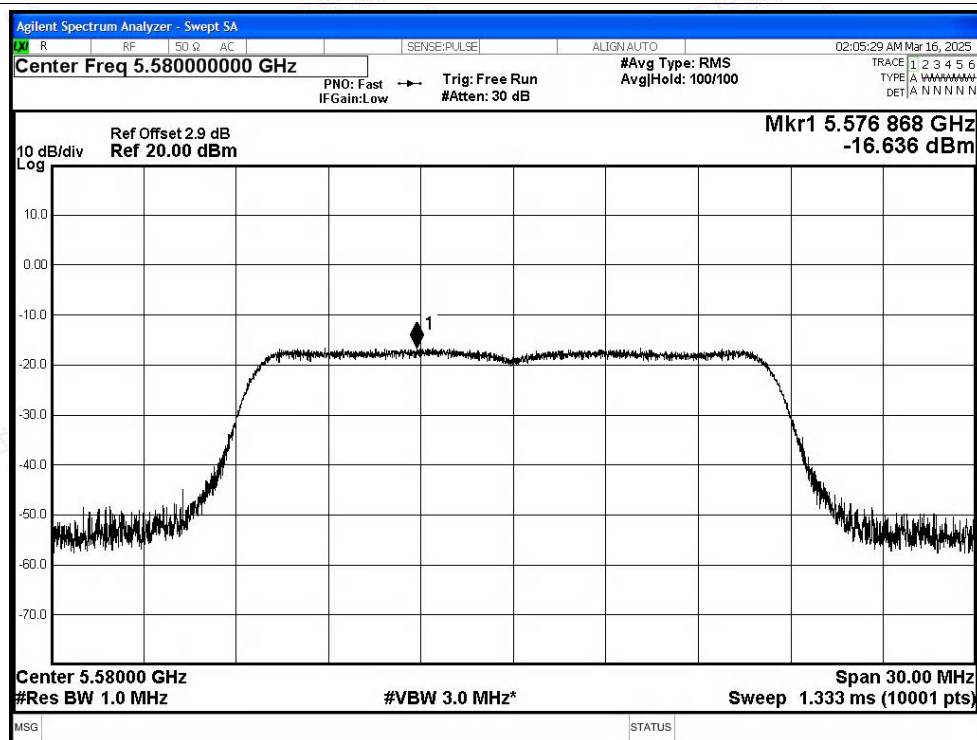


## Test Graphs

PSD NVNT a 5500MHz Ant1

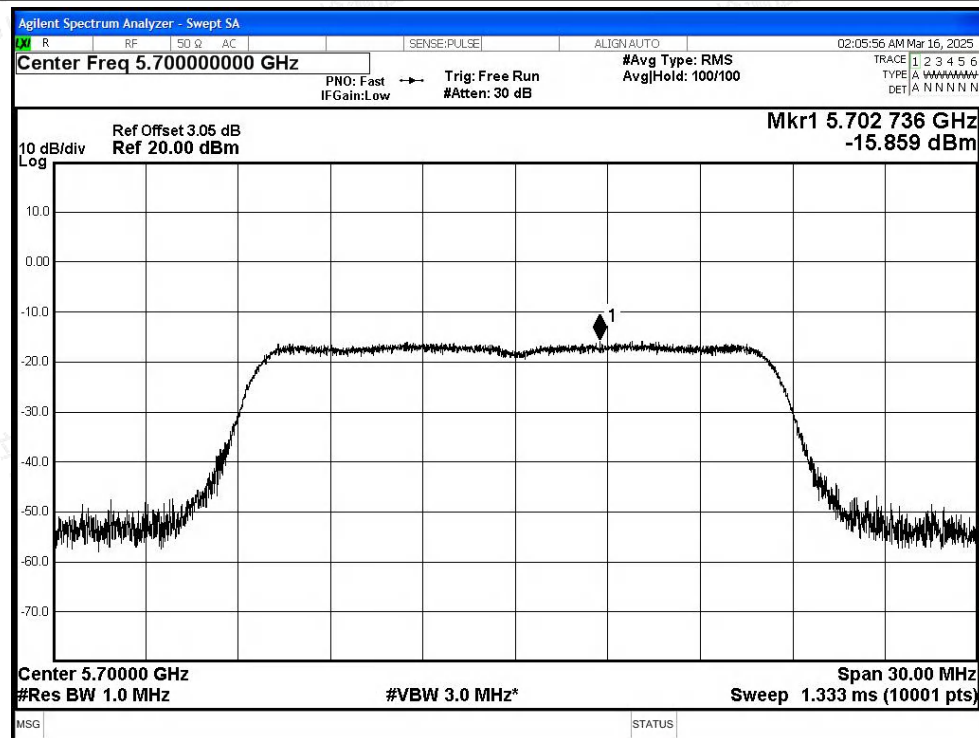


PSD NVNT a 5580MHz Ant1

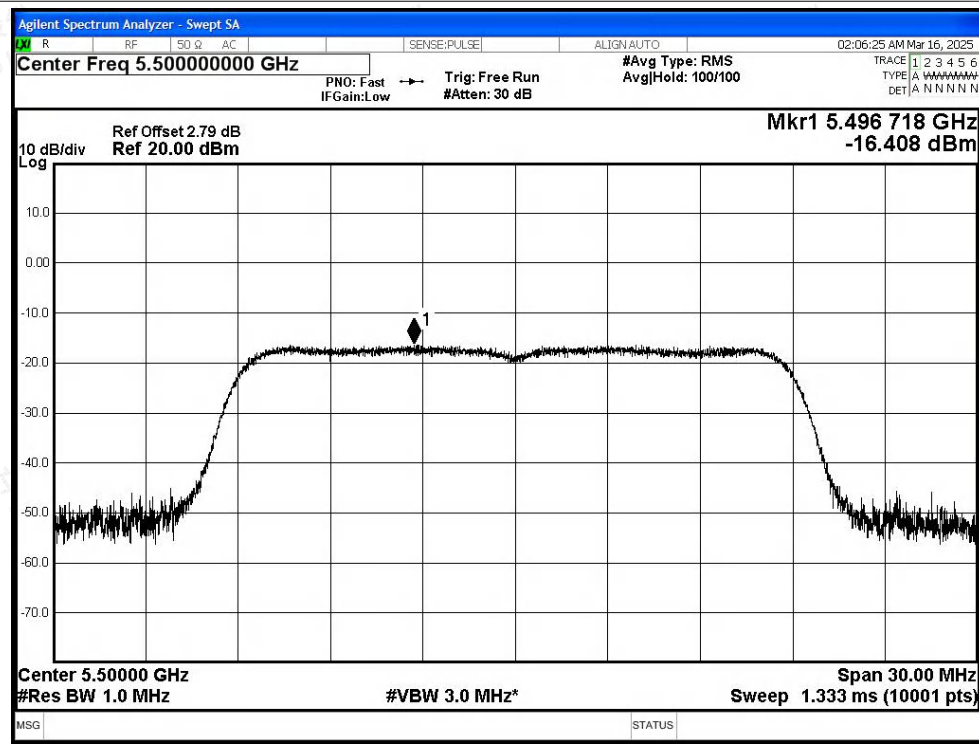


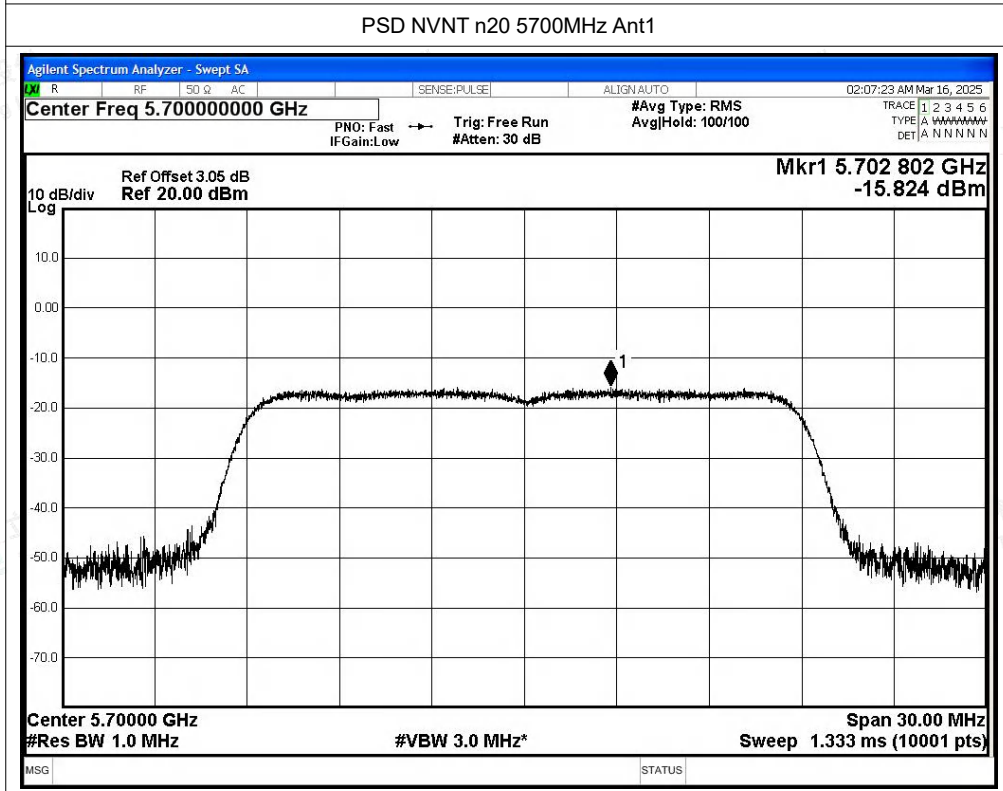
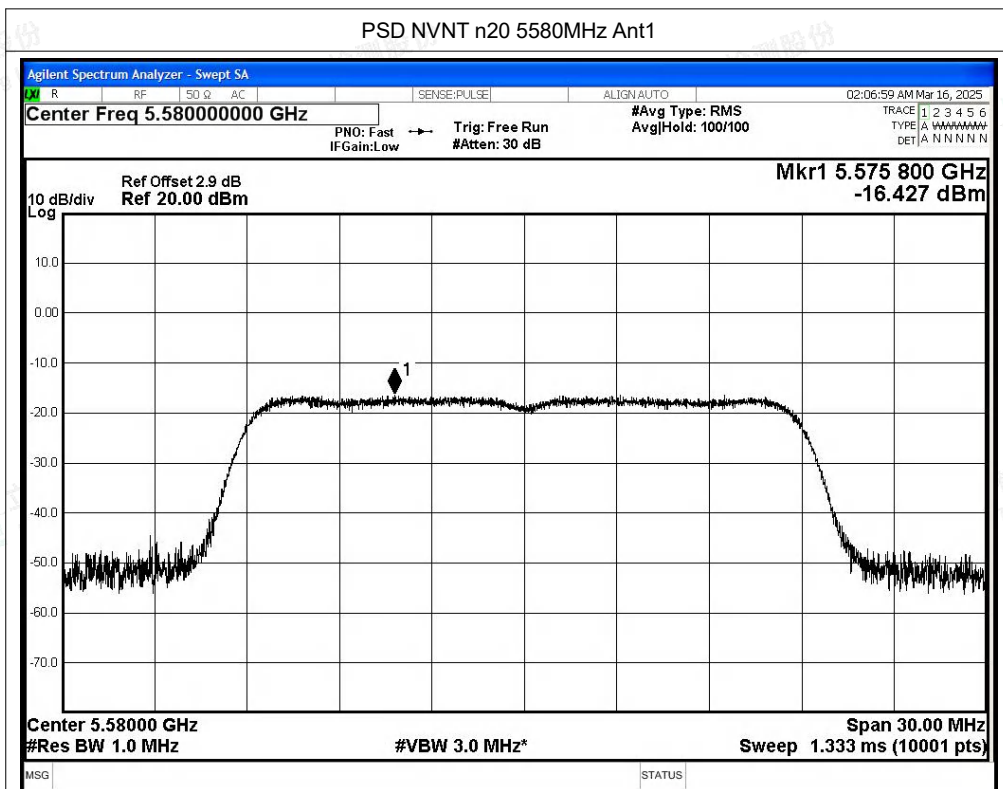


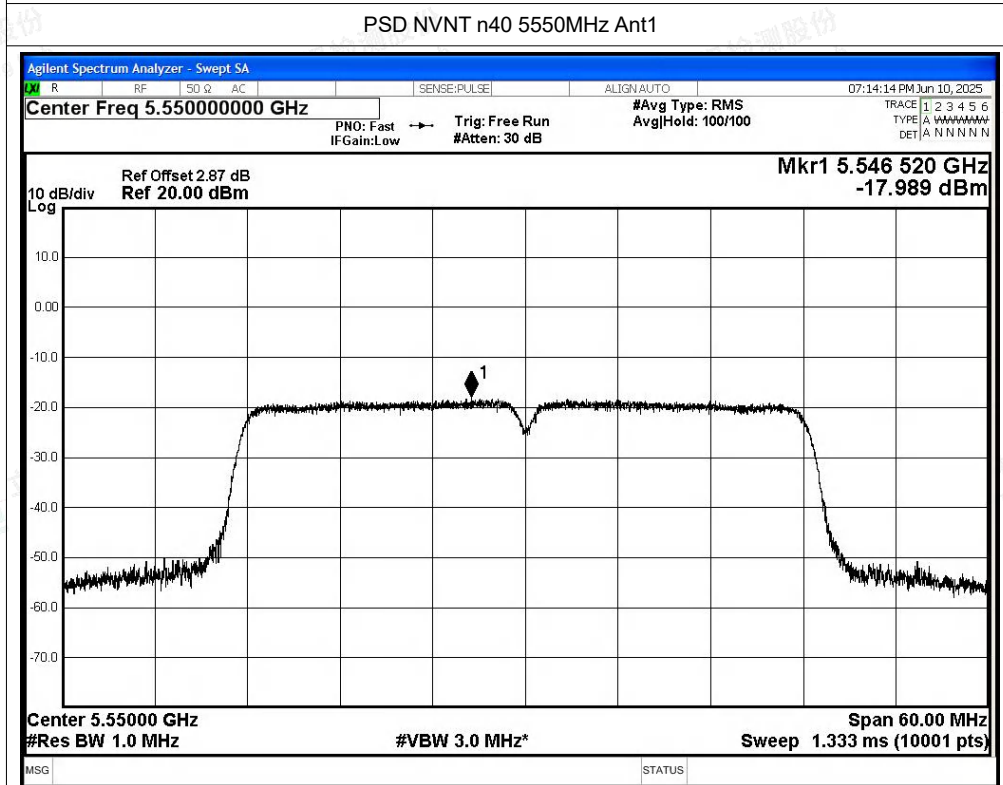
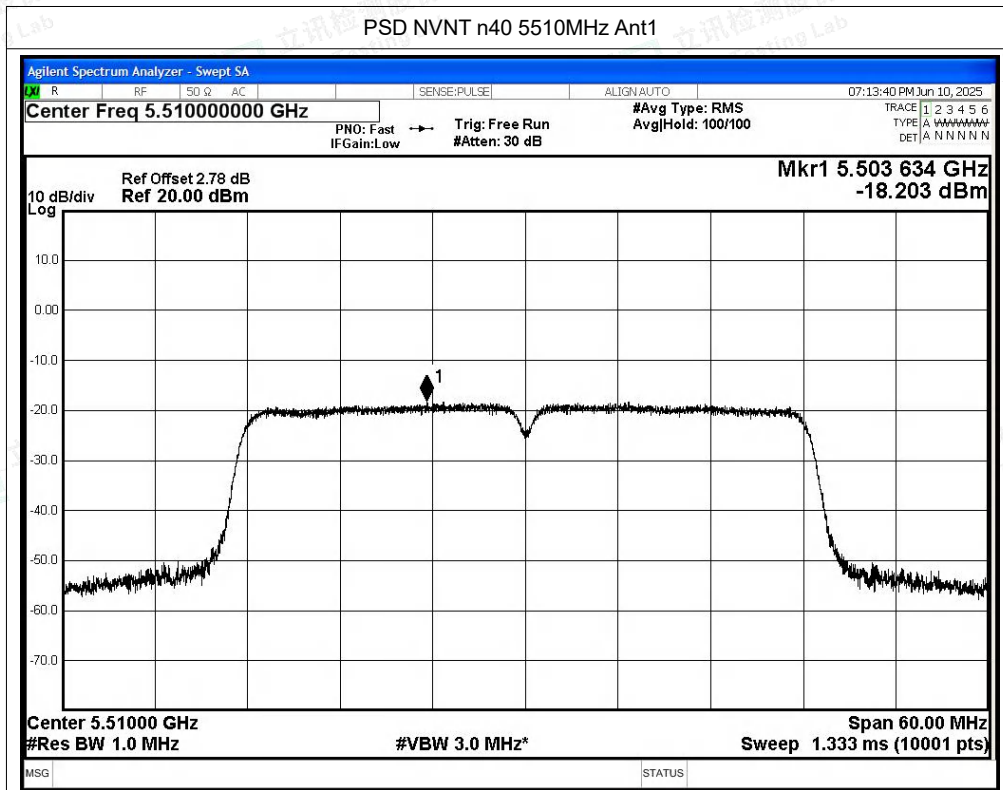
PSD NVNT a 5700MHz Ant1

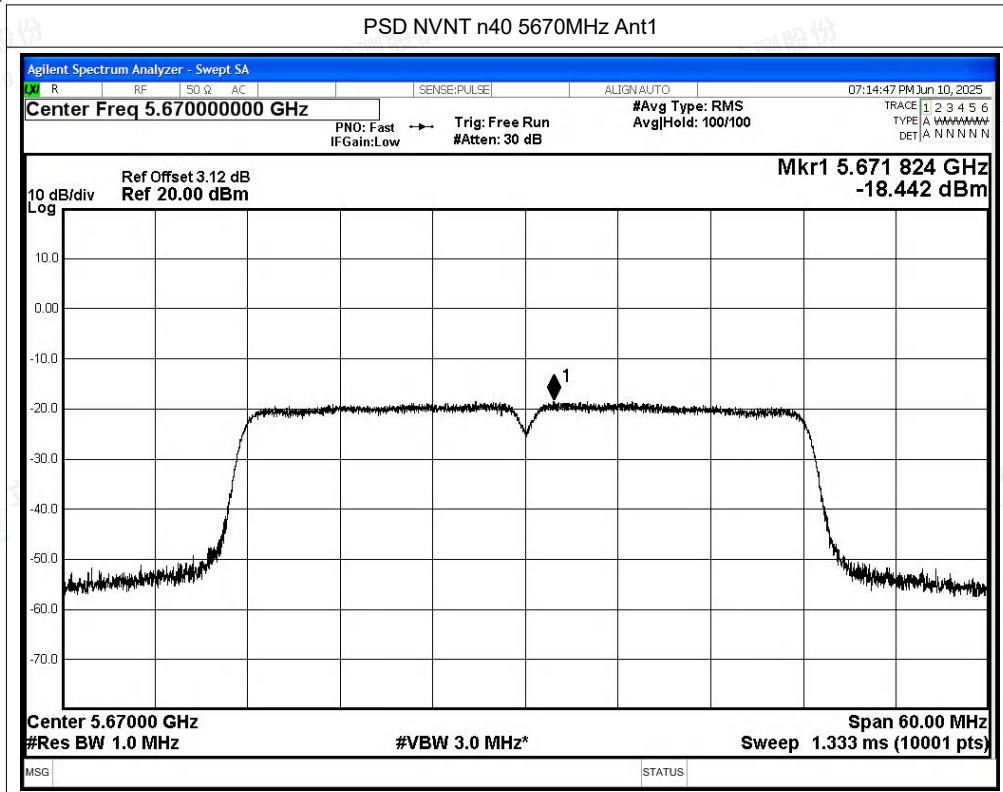


PSD NVNT n20 5500MHz Ant1











## F.4 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      | a    | 5500            | Ant1    | 5460            | -50.18      | 2.20       | -                | 47.25      | Peak     | 68.2           | Pass    |
| NVNT      | a    | 5500            | Ant1    | 5460            | -57.68      | 2.20       | 0.24             | 39.99      | Average  | 54             | Pass    |
| NVNT      | a    | 5500            | Ant1    | 5465.6          | -46.48      | 2.20       | -                | 50.95      | Peak     | 68.2           | Pass    |
| NVNT      | a    | 5500            | Ant1    | 5469.6          | -57.02      | 2.20       | 0.24             | 40.65      | Average  | 54             | Pass    |
| NVNT      | a    | 5500            | Ant1    | 5470            | -49.84      | 2.20       | -                | 47.59      | Peak     | 68.2           | Pass    |
| NVNT      | a    | 5500            | Ant1    | 5470            | -57.39      | 2.20       | 0.24             | 40.28      | Average  | 54             | Pass    |
| NVNT      | a    | 5700            | Ant1    | 5725            | -46.1       | 2.20       | -                | 51.33      | Peak     | 68.2           | Pass    |
| NVNT      | a    | 5700            | Ant1    | 5725            | -56.22      | 2.20       | 0.24             | 41.45      | Average  | 54             | Pass    |
| NVNT      | a    | 5700            | Ant1    | 5725.6          | -45.13      | 2.20       | -                | 52.30      | Peak     | 68.2           | Pass    |
| NVNT      | a    | 5700            | Ant1    | 5725            | -56.22      | 2.20       | 0.24             | 41.45      | Average  | 54             | Pass    |
| NVNT      | a    | 5700            | Ant1    | 5735            | -50.12      | 2.20       | -                | 47.31      | Peak     | 68.2           | Pass    |
| NVNT      | a    | 5700            | Ant1    | 5735            | -58.08      | 2.20       | 0.24             | 39.59      | Average  | 54             | Pass    |
| NVNT      | n20  | 5500            | Ant1    | 5460            | -50.07      | 2.20       | -                | 47.36      | Peak     | 68.2           | Pass    |
| NVNT      | n20  | 5500            | Ant1    | 5460            | -58.05      | 2.20       | 0.12             | 39.50      | Average  | 54             | Pass    |
| NVNT      | n20  | 5500            | Ant1    | 5469.4          | -47.78      | 2.20       | -                | 49.65      | Peak     | 68.2           | Pass    |
| NVNT      | n20  | 5500            | Ant1    | 5466.4          | -57.13      | 2.20       | 0.12             | 40.42      | Average  | 54             | Pass    |
| NVNT      | n20  | 5500            | Ant1    | 5470            | -48.57      | 2.20       | -                | 48.86      | Peak     | 68.2           | Pass    |
| NVNT      | n20  | 5500            | Ant1    | 5470            | -57.34      | 2.20       | 0.12             | 40.21      | Average  | 54             | Pass    |
| NVNT      | n20  | 5700            | Ant1    | 5725            | -44.41      | 2.20       | -                | 53.02      | Peak     | 68.2           | Pass    |
| NVNT      | n20  | 5700            | Ant1    | 5725            | -56.42      | 2.20       | 0.12             | 41.13      | Average  | 54             | Pass    |
| NVNT      | n20  | 5700            | Ant1    | 5726.2          | -43.14      | 2.20       | -                | 54.29      | Peak     | 68.2           | Pass    |
| NVNT      | n20  | 5700            | Ant1    | 5726.2          | -55.5       | 2.20       | 0.12             | 42.05      | Average  | 54             | Pass    |
| NVNT      | n20  | 5700            | Ant1    | 5735            | -49.26      | 2.20       | -                | 48.17      | Peak     | 68.2           | Pass    |
| NVNT      | n20  | 5700            | Ant1    | 5735            | -58.25      | 2.20       | 0.12             | 39.30      | Average  | 54             | Pass    |
| NVNT      | n40  | 5510            | Ant1    | 5460            | -48.98      | 2.20       | -                | 48.45      | Peak     | 68.2           | Pass    |
| NVNT      | n40  | 5510            | Ant1    | 5460            | -57.88      | 2.20       | 0.24             | 39.79      | Average  | 54             | Pass    |
| NVNT      | n40  | 5510            | Ant1    | 5467.2          | -47.06      | 2.20       | -                | 50.37      | Peak     | 68.2           | Pass    |
| NVNT      | n40  | 5510            | Ant1    | 5468.4          | -57.4       | 2.20       | 0.24             | 40.27      | Average  | 54             | Pass    |
| NVNT      | n40  | 5510            | Ant1    | 5470            | -50.72      | 2.20       | -                | 46.71      | Peak     | 68.2           | Pass    |
| NVNT      | n40  | 5510            | Ant1    | 5470            | -57.71      | 2.20       | 0.24             | 39.96      | Average  | 54             | Pass    |
| NVNT      | n40  | 5670            | Ant1    | 5725            | -50.71      | 2.20       | -                | 46.72      | Peak     | 68.2           | Pass    |
| NVNT      | n40  | 5670            | Ant1    | 5725            | -58.23      | 2.20       | 0.24             | 39.44      | Average  | 54             | Pass    |
| NVNT      | n40  | 5670            | Ant1    | 5730.4          | -48.33      | 2.20       | -                | 49.1       | Peak     | 68.2           | Pass    |
| NVNT      | n40  | 5670            | Ant1    | 5728.2          | -57.68      | 2.20       | 0.24             | 39.99      | Average  | 54             | Pass    |
| NVNT      | n40  | 5670            | Ant1    | 5735            | -49.59      | 2.20       | -                | 47.84      | Peak     | 68.2           | Pass    |
| NVNT      | n40  | 5670            | Ant1    | 5735            | -57.76      | 2.20       | 0.24             | 39.91      | Average  | 54             | Pass    |

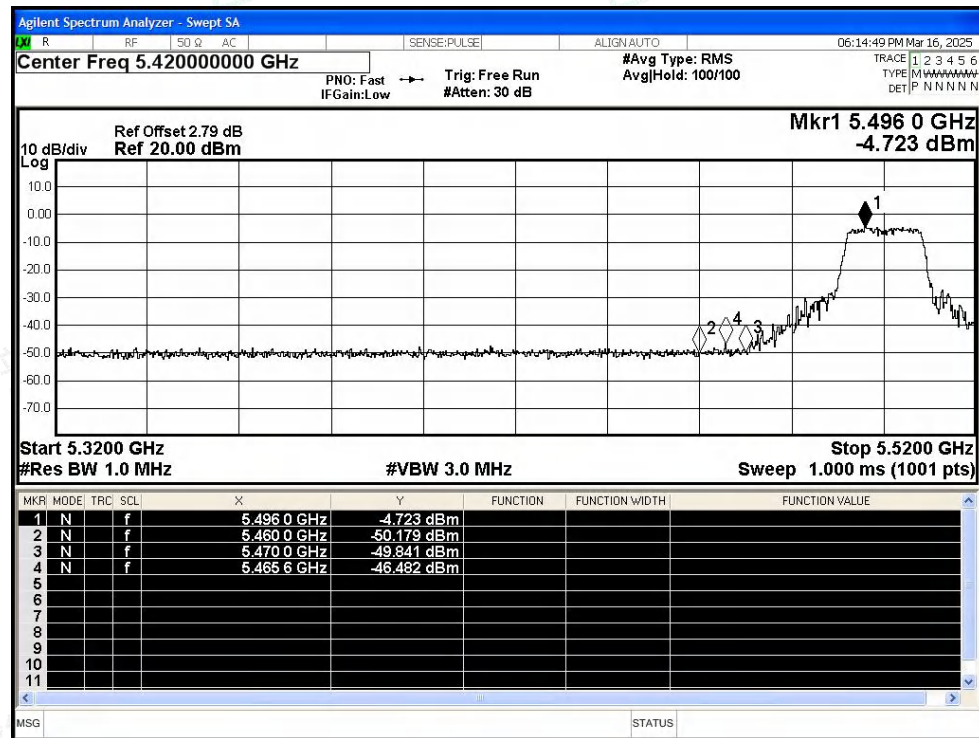


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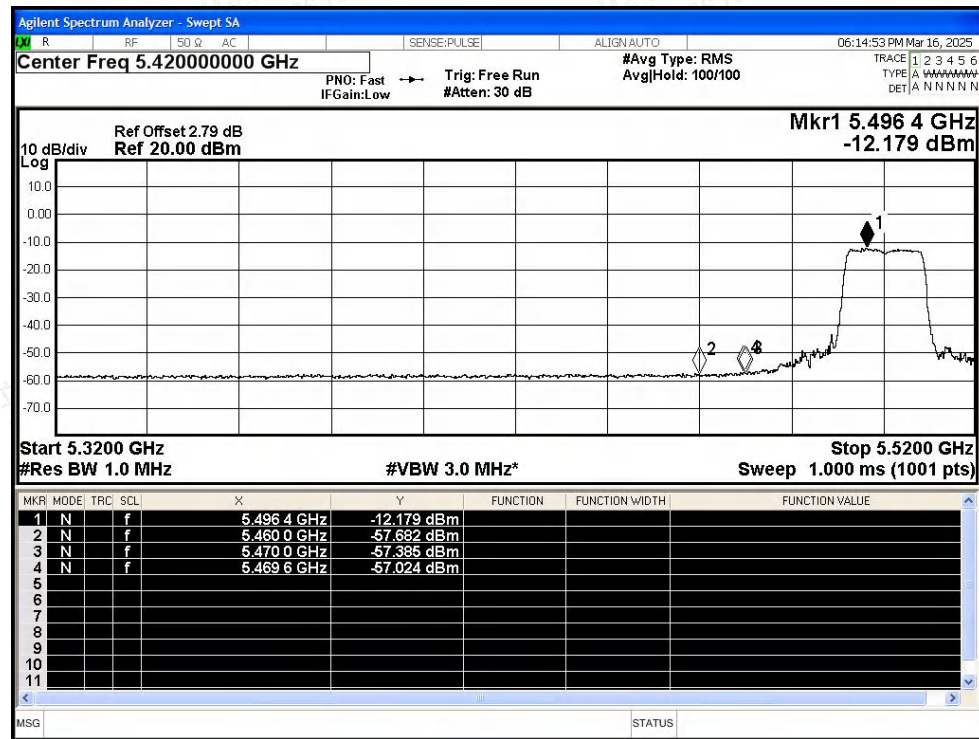


## Test Graphs

## Restrict Band NVNT a 5500MHz Ant1 Peak

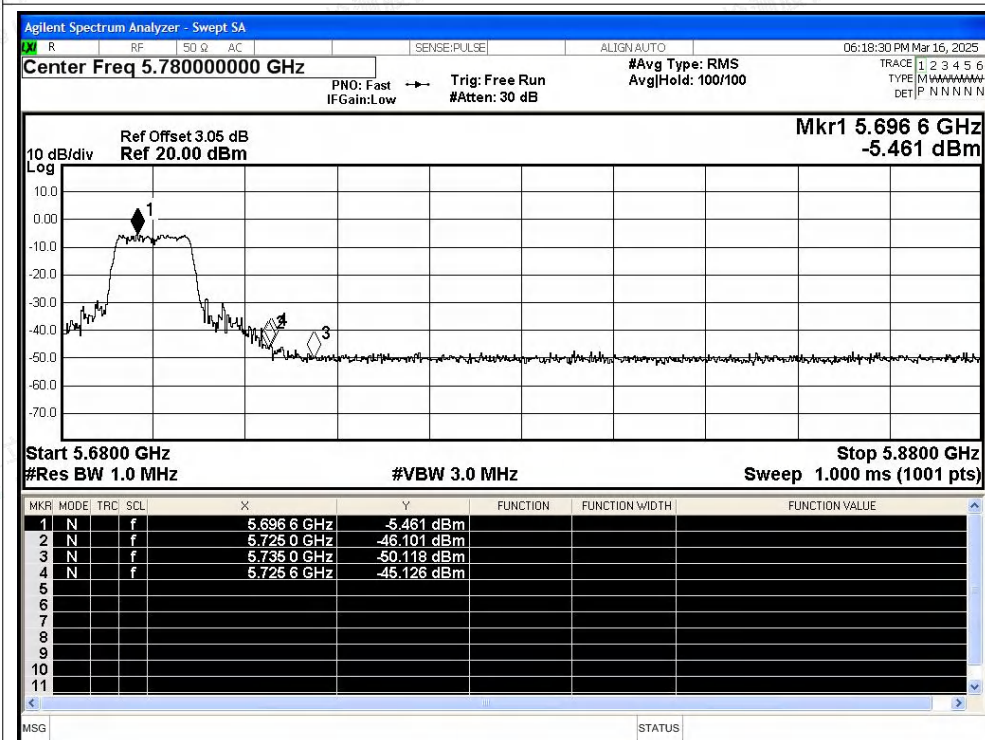


## Restrict Band NVNT a 5500MHz Ant1 Average

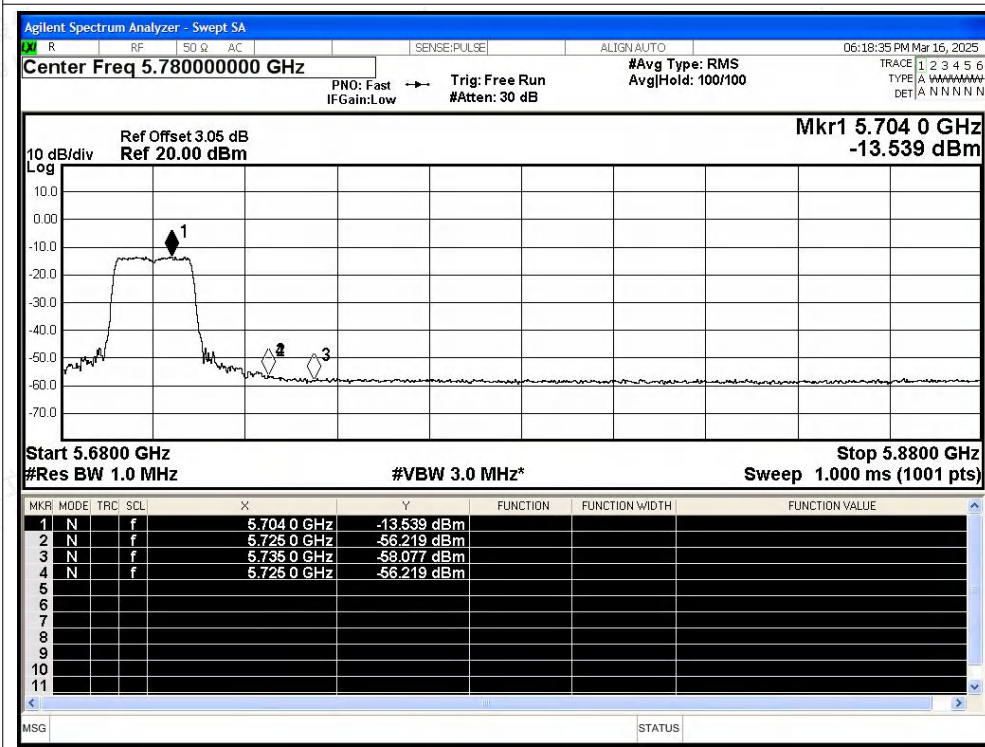




## Restrict Band NVNT a 5700MHz Ant1 Peak

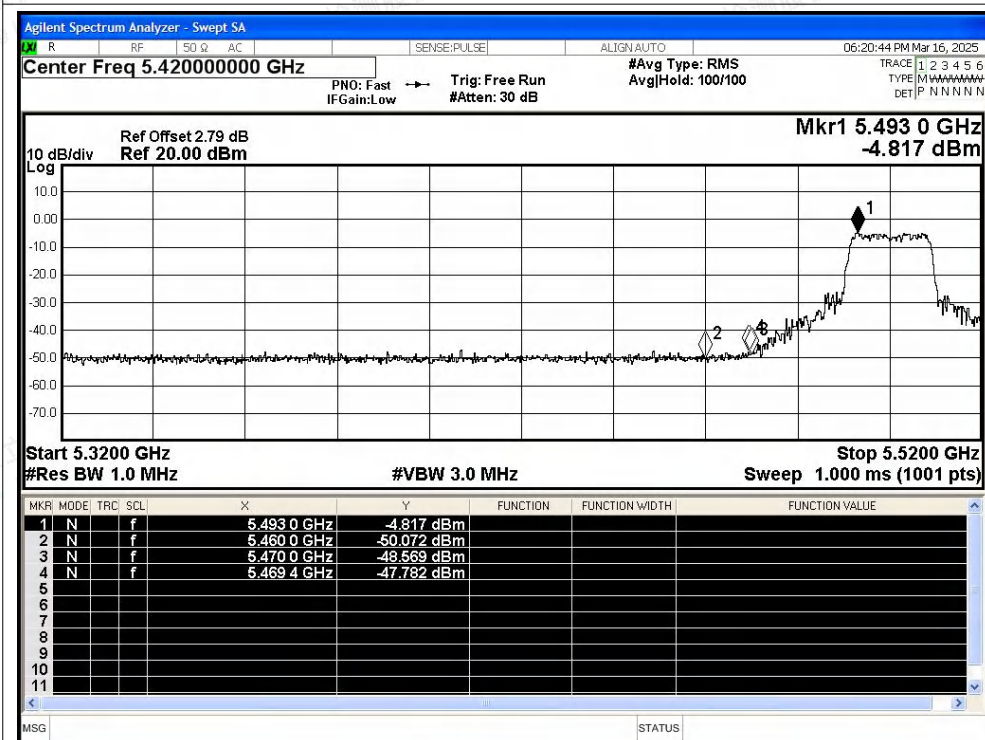


## Restrict Band NVNT a 5700MHz Ant1 Average

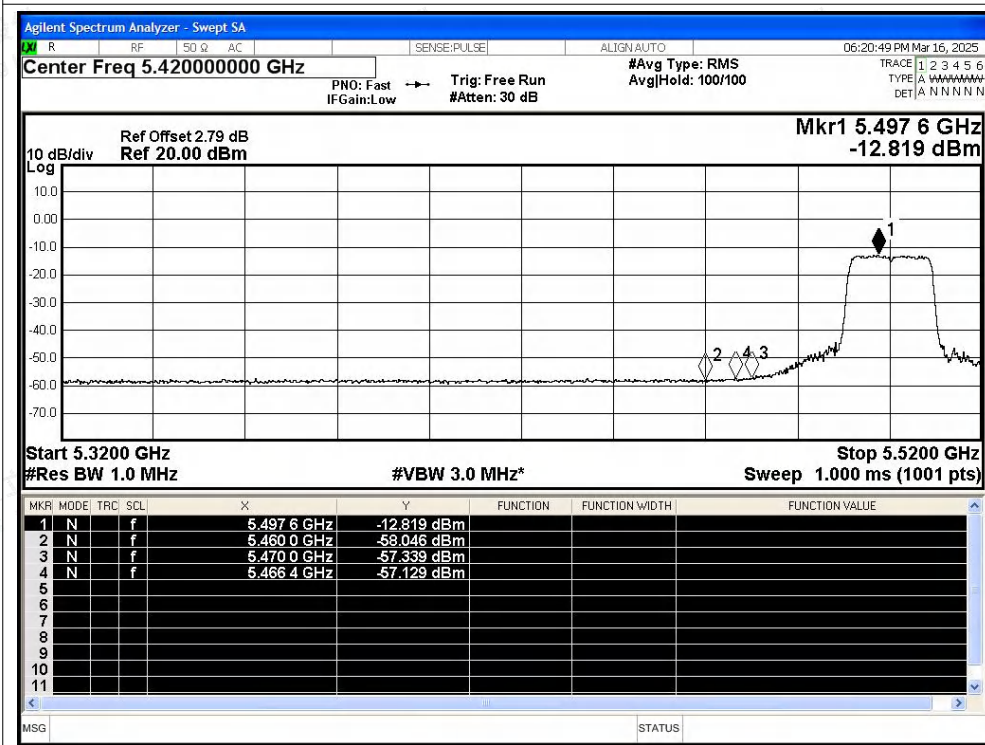




## Restrict Band NVNT n20 5500MHz Ant1 Peak

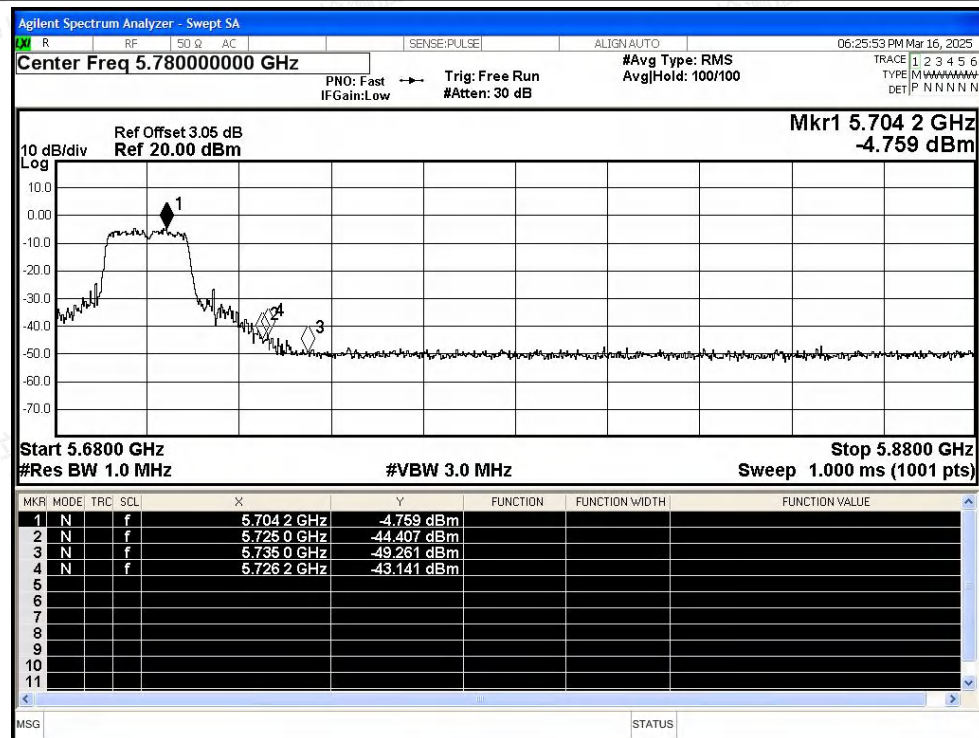


## Restrict Band NVNT n20 5500MHz Ant1 Average

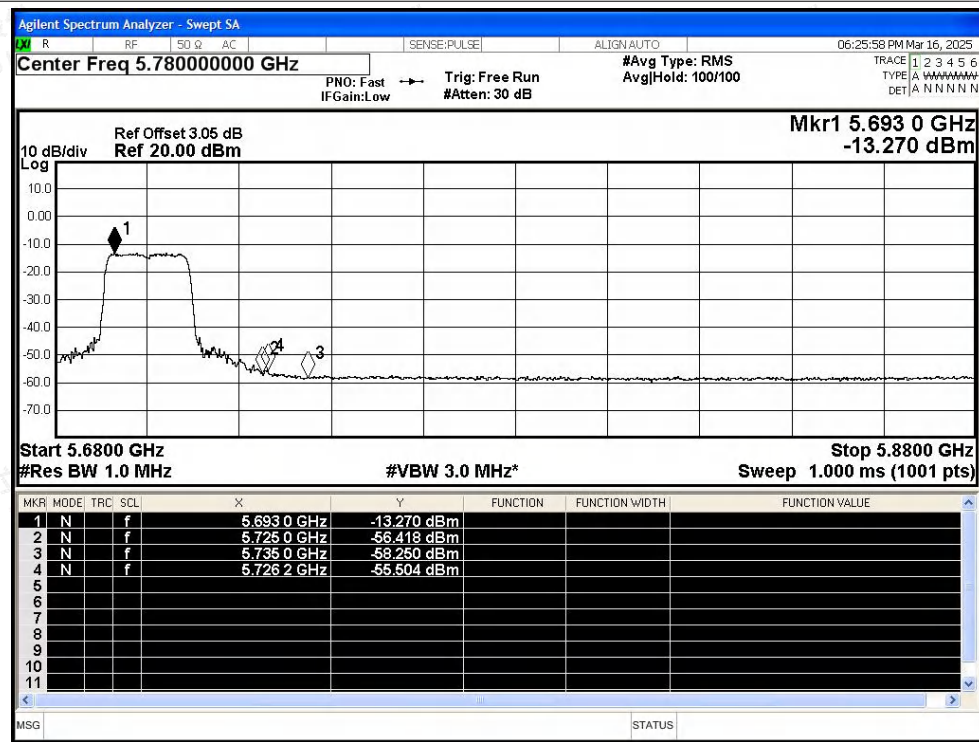




## Restrict Band NVNT n20 5700MHz Ant1 Peak

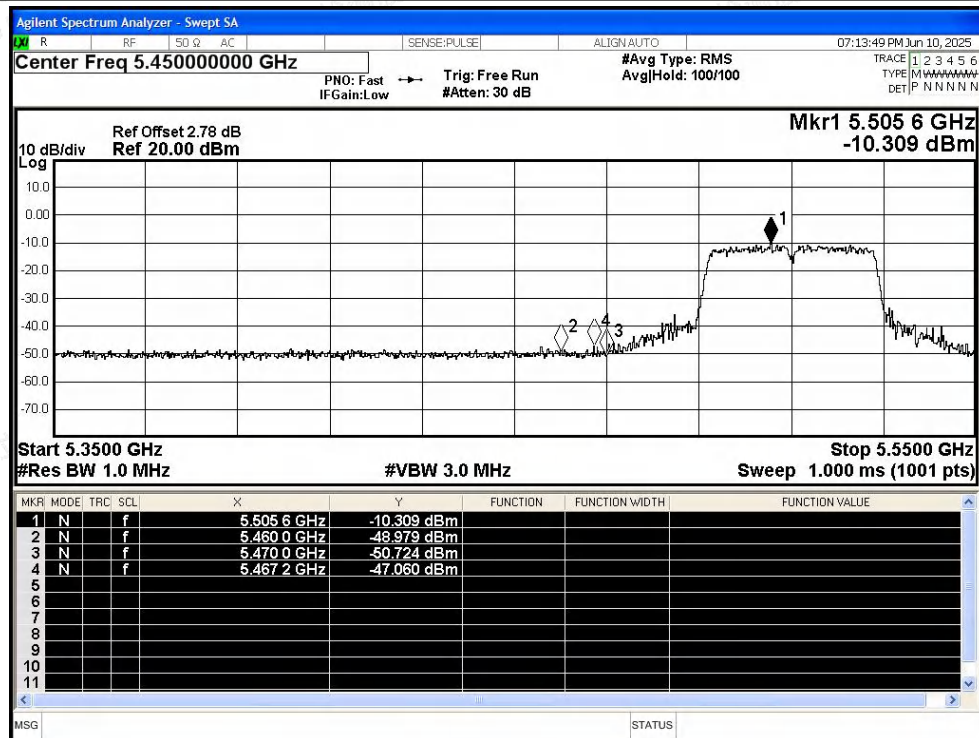


## Restrict Band NVNT n20 5700MHz Ant1 Average

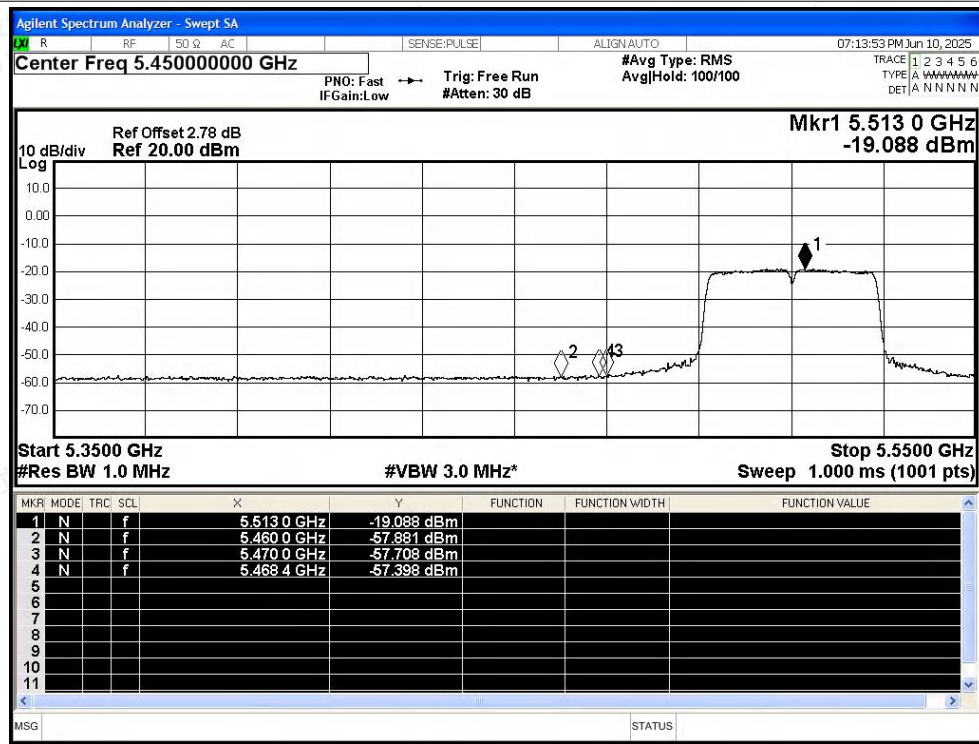




## Restrict Band NVNT n40 5510MHz Ant1 Peak



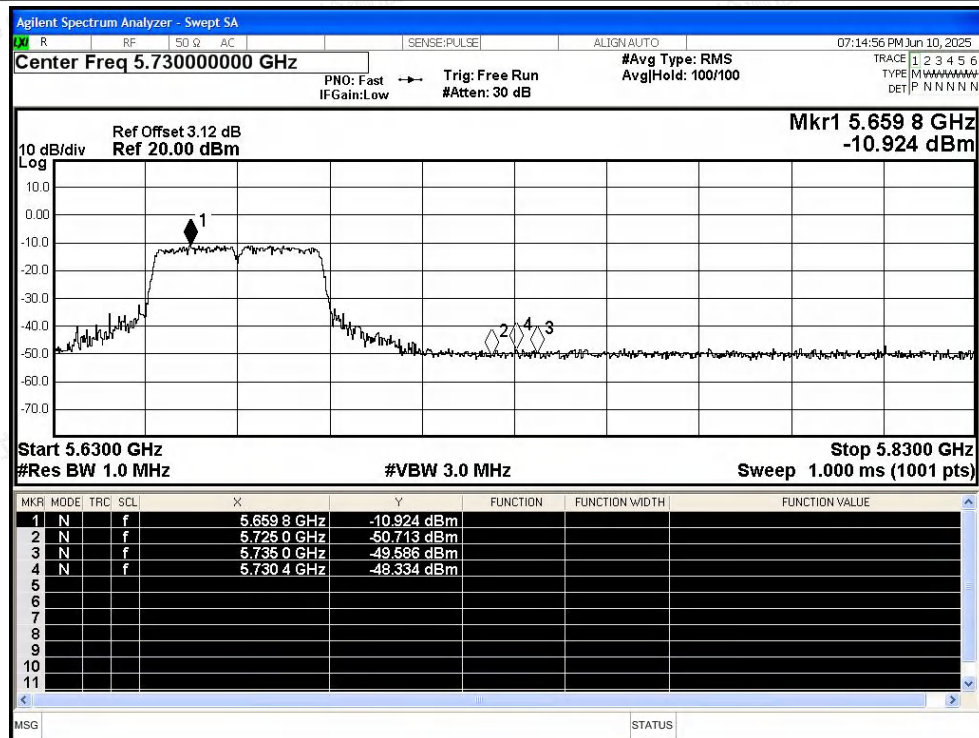
## Restrict Band NVNT n40 5510MHz Ant1 Average



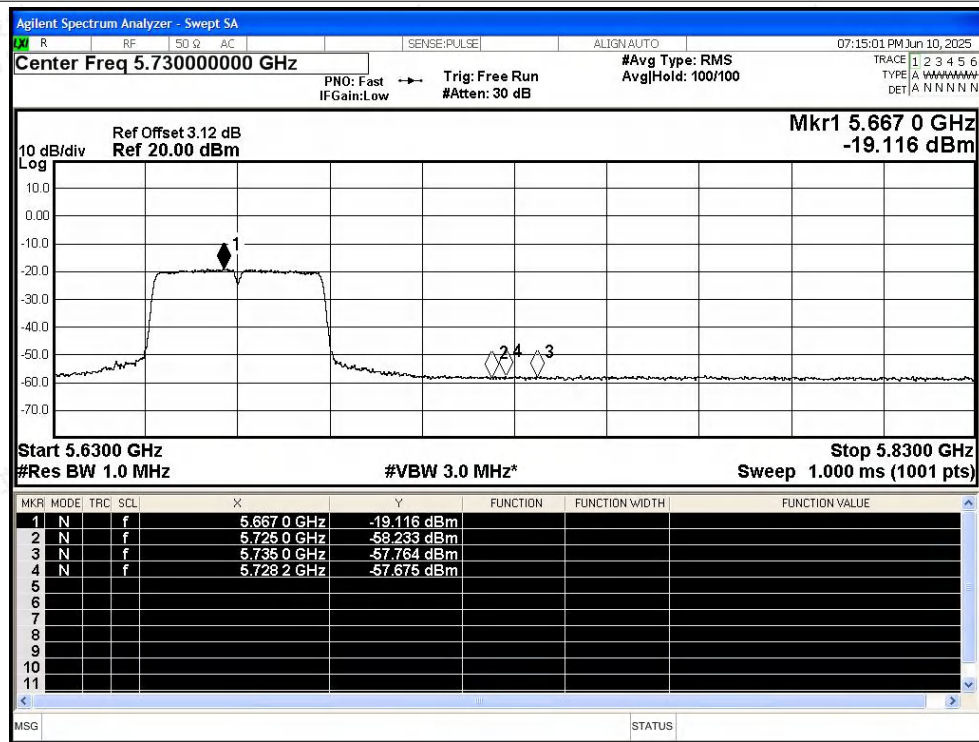
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## Restrict Band NVNT n40 5670MHz Ant1 Peak



## Restrict Band NVNT n40 5670MHz Ant1 Average



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## F.5 Frequency Stability

| Condition | Mode | Frequency (MHz) | Antenna | Measured Frequency (MHz) | Frequency Error (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|-----------|------|-----------------|---------|--------------------------|----------------------|-----------------|-------------|---------|
| NVNT      | a    | 5500            | Ant1    | 5500                     | 0                    | 0               | 25          | Pass    |
| NVNT      | a    | 5580            | Ant1    | 5580                     | 0                    | 0               | 25          | Pass    |
| NVNT      | a    | 5700            | Ant1    | 5700                     | 0                    | 0               | 25          | Pass    |
| NVNT      | n20  | 5500            | Ant1    | 5499.98                  | -20000               | -3.64           | 25          | Pass    |
| NVNT      | n20  | 5580            | Ant1    | 5579.98                  | -20000               | -3.58           | 25          | Pass    |
| NVNT      | n20  | 5700            | Ant1    | 5699.98                  | -20000               | -3.51           | 25          | Pass    |
| NVNT      | n40  | 5510            | Ant1    | 5509.96                  | -40000               | -7.26           | 25          | Pass    |
| NVNT      | n40  | 5550            | Ant1    | 5550                     | 0                    | 0               | 25          | Pass    |
| NVNT      | n40  | 5670            | Ant1    | 5670                     | 0                    | 0               | 25          | Pass    |

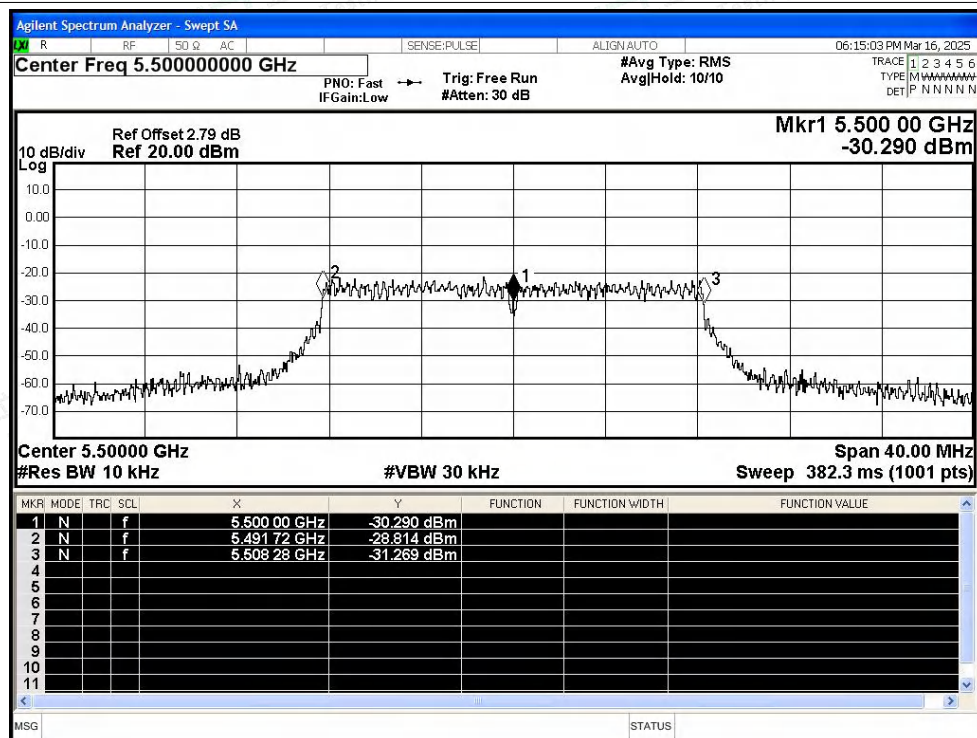


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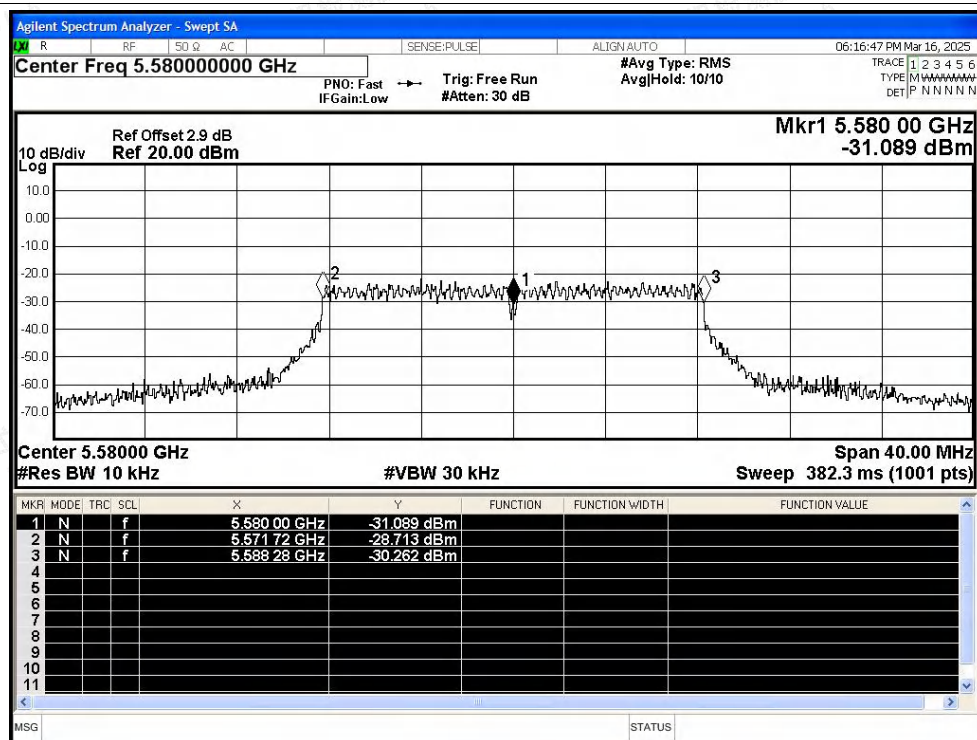


## Test Graphs

## Freq. Stability NVNT a 5500MHz Ant1

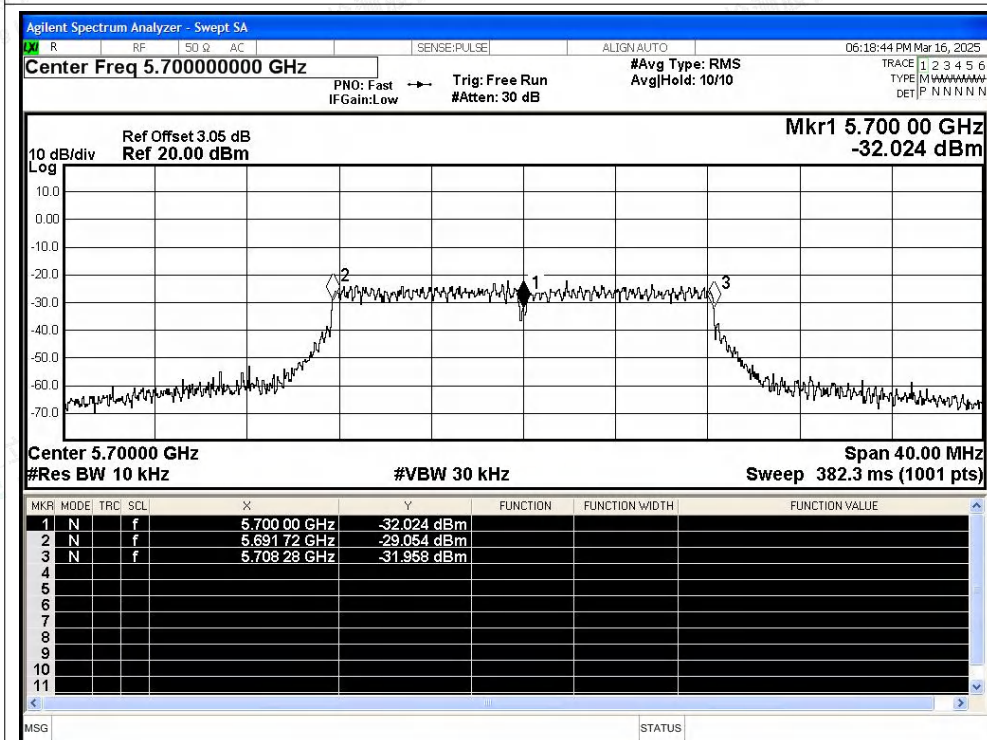


## Freq. Stability NVNT a 5580MHz Ant1

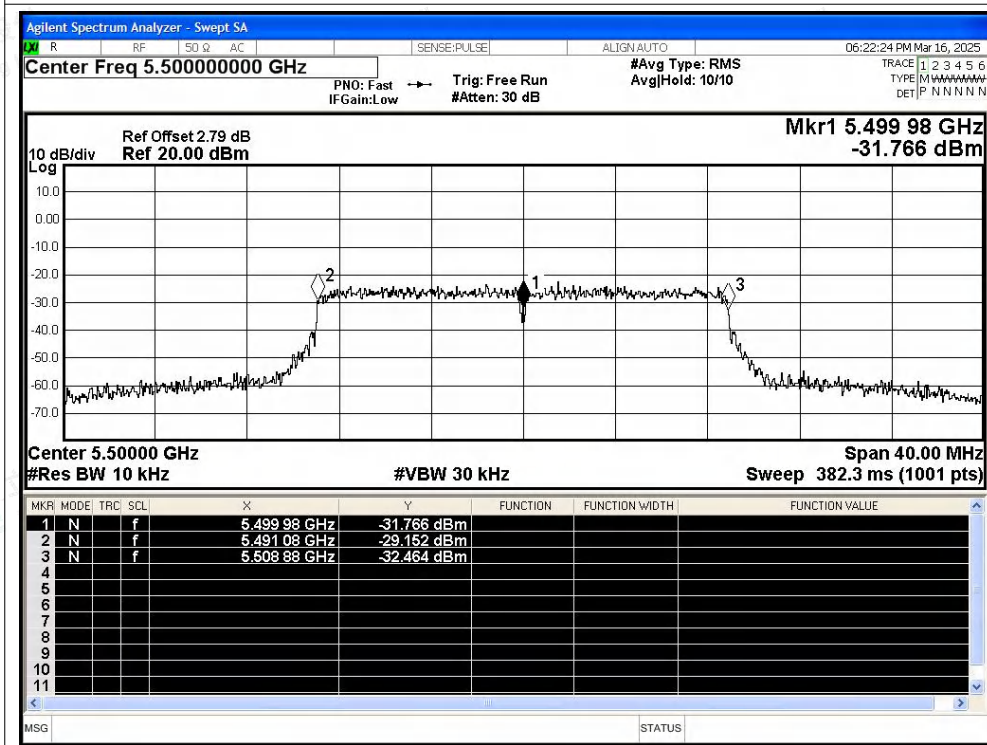




## Freq. Stability NVNT a 5700MHz Ant1

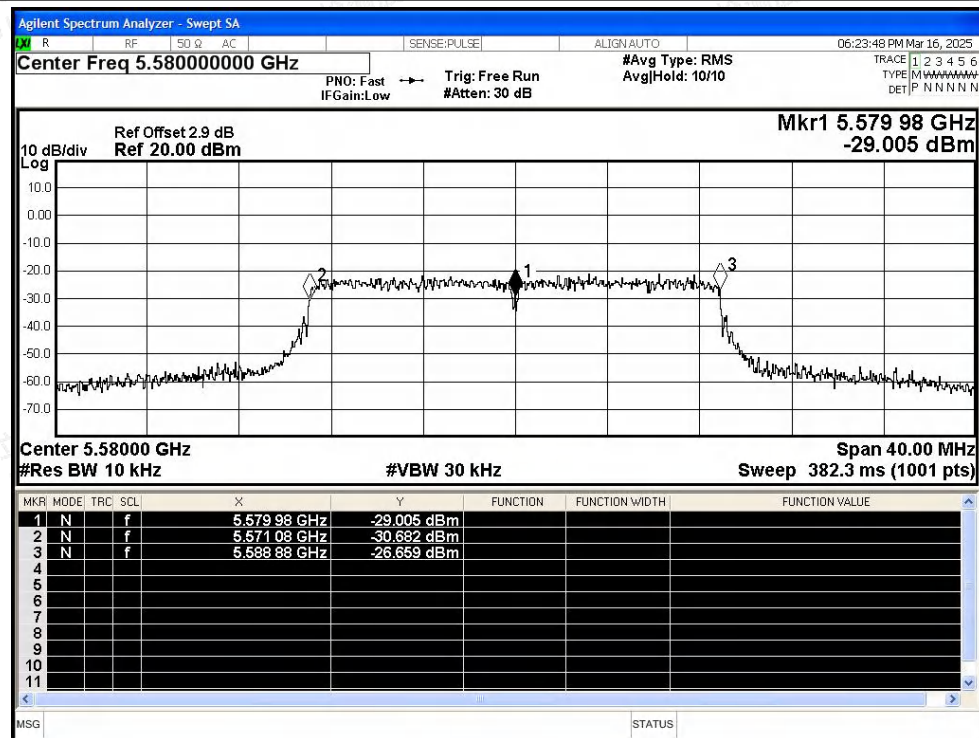


## Freq. Stability NVNT n20 5500MHz Ant1

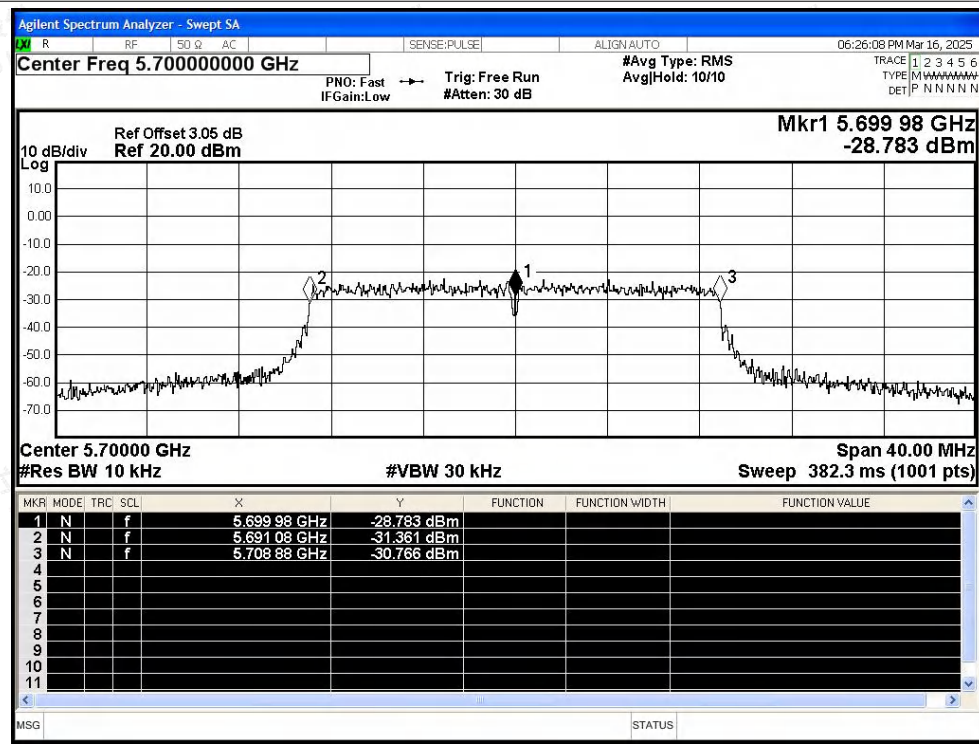




## Freq. Stability NVNT n20 5580MHz Ant1

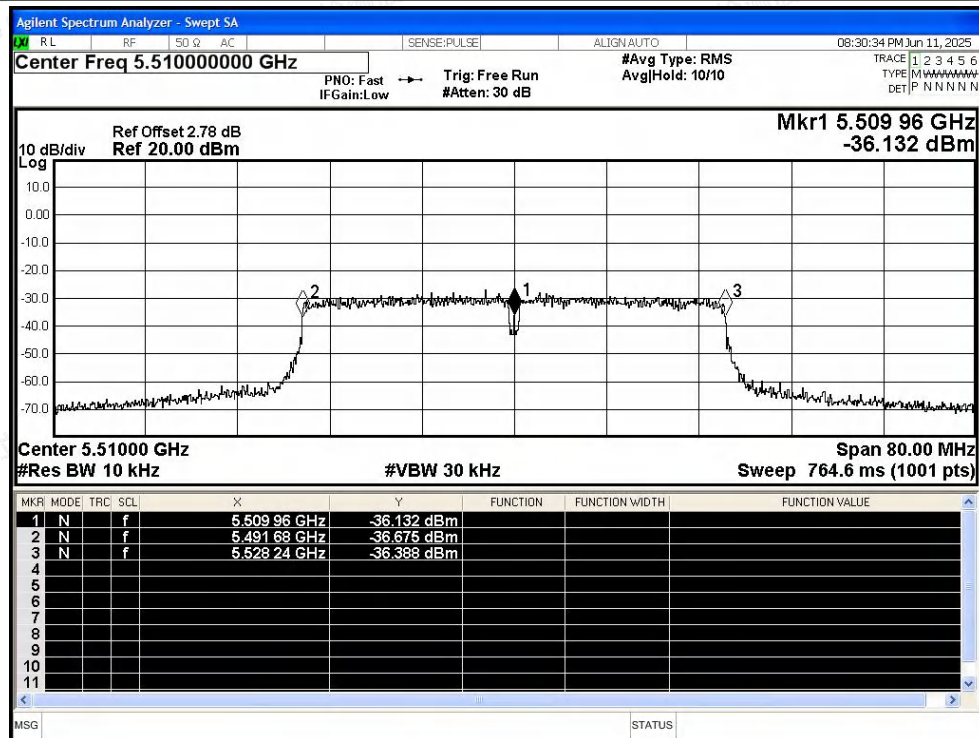


## Freq. Stability NVNT n20 5700MHz Ant1

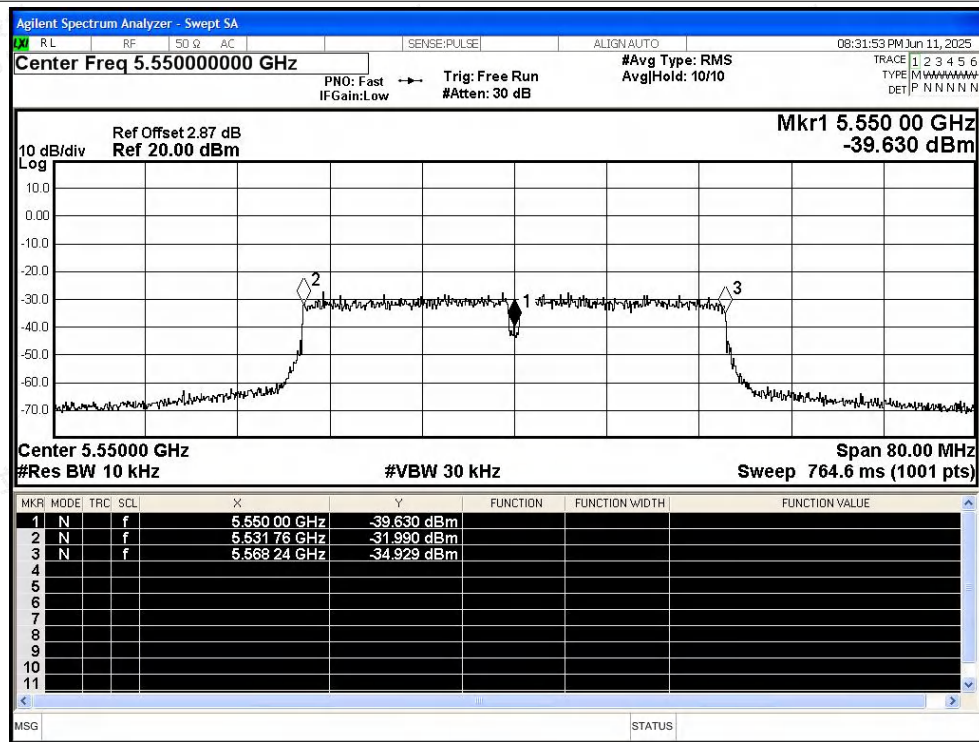


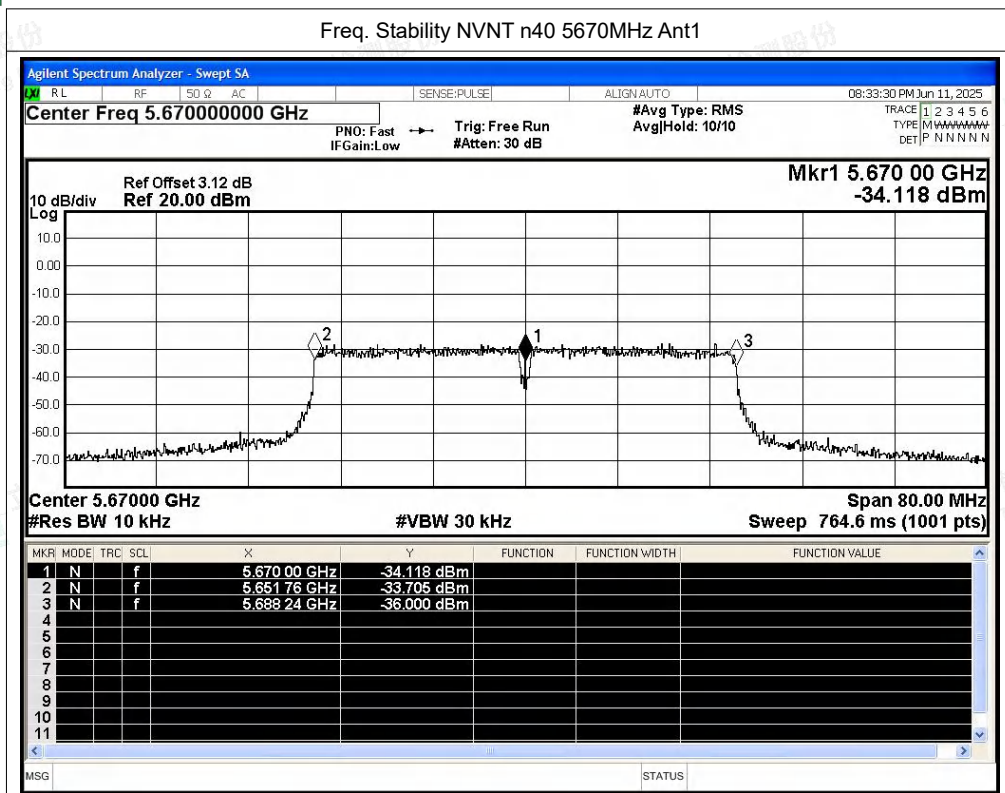


## Freq. Stability NVNT n40 5510MHz Ant1



## Freq. Stability NVNT n40 5550MHz Ant1







## F.6 Duty Cycle

| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|------|-----------------|---------|----------------|------------------------|-----------|
| NVNT      | a    | 5500            | Ant1    | 94.56          | 0.24                   | 0.91      |
| NVNT      | a    | 5580            | Ant1    | 94.56          | 0.24                   | 0.91      |
| NVNT      | a    | 5700            | Ant1    | 94.56          | 0.24                   | 0.91      |
| NVNT      | n20  | 5500            | Ant1    | 97.29          | 0.12                   | 0.44      |
| NVNT      | n20  | 5580            | Ant1    | 97.29          | 0.12                   | 0.44      |
| NVNT      | n20  | 5700            | Ant1    | 97.29          | 0.12                   | 0.44      |
| NVNT      | n40  | 5510            | Ant1    | 94.71          | 0.24                   | 0.9       |
| NVNT      | n40  | 5550            | Ant1    | 94.71          | 0.24                   | 0.9       |
| NVNT      | n40  | 5670            | Ant1    | 94.71          | 0.24                   | 0.9       |

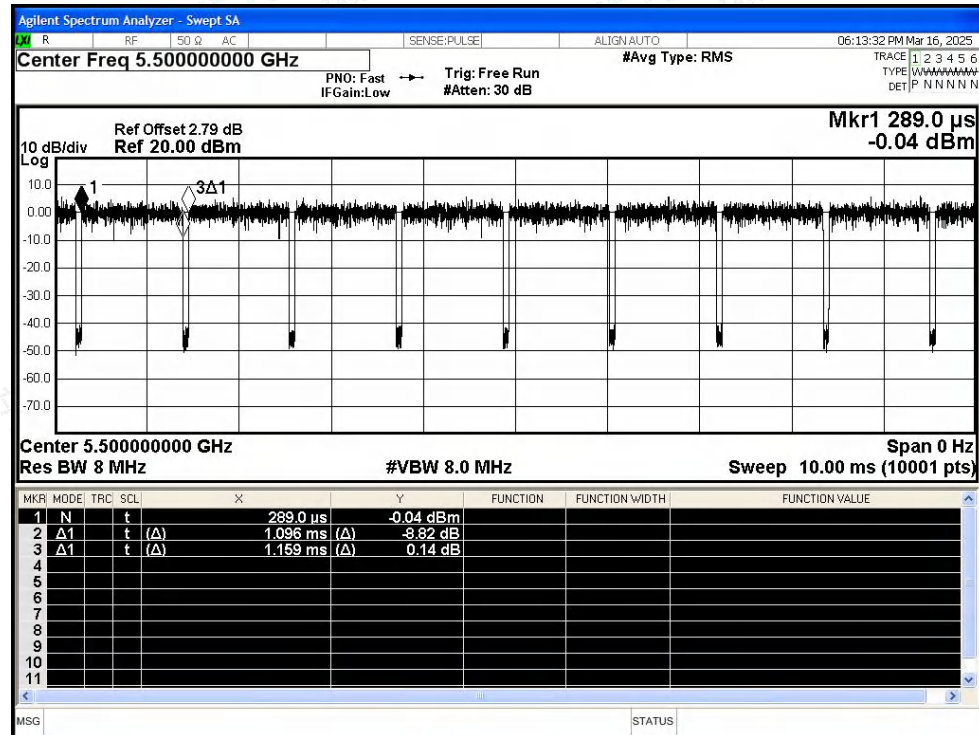


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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com  
Scan code to check authenticity

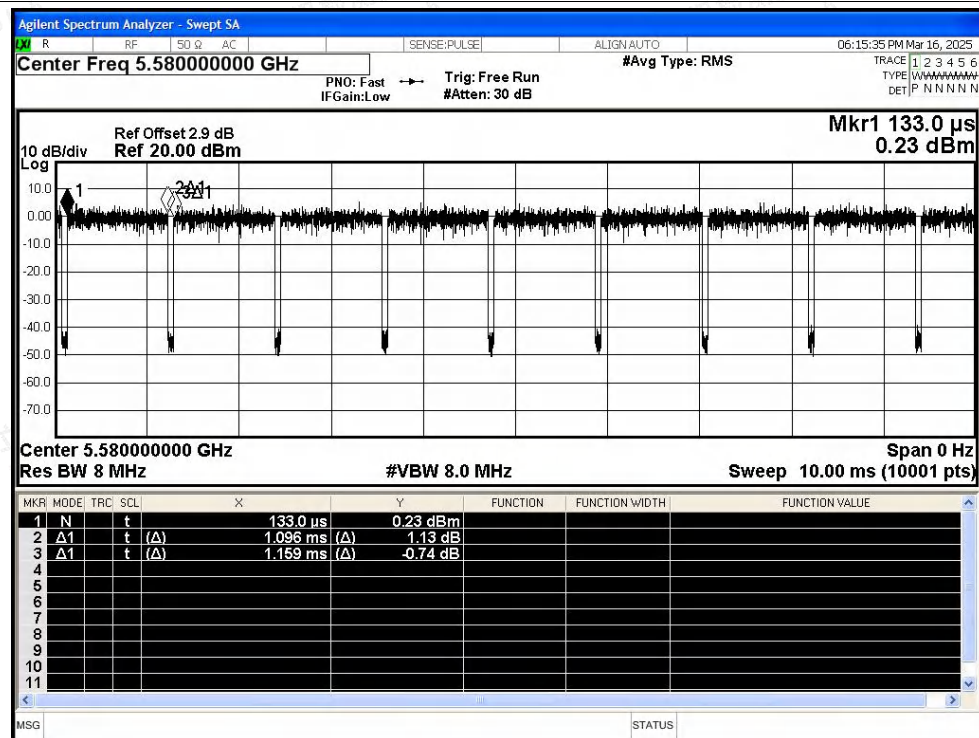


## Test Graphs

## Duty Cycle NVNT a 5500MHz Ant1

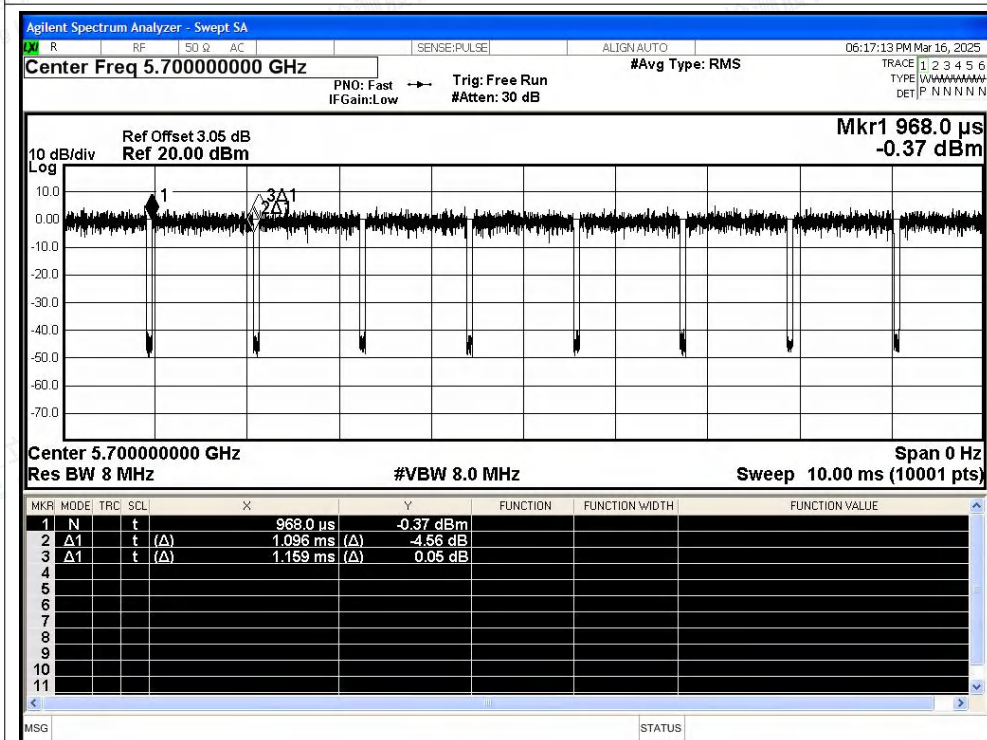


## Duty Cycle NVNT a 5580MHz Ant1

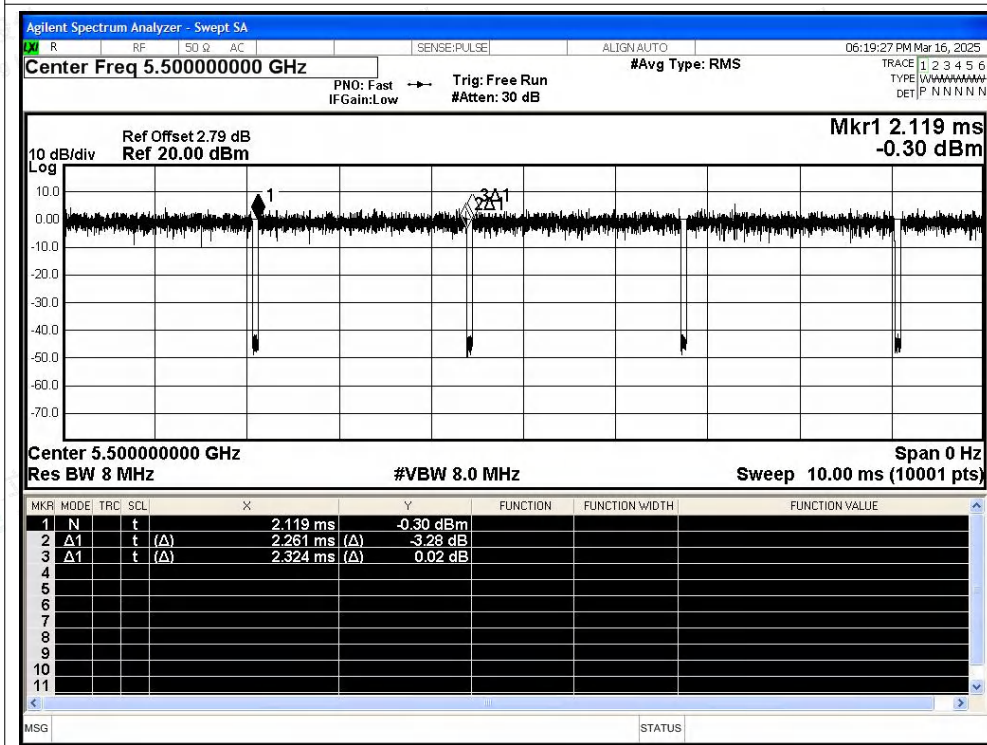




## Duty Cycle NVNT a 5700MHz Ant1

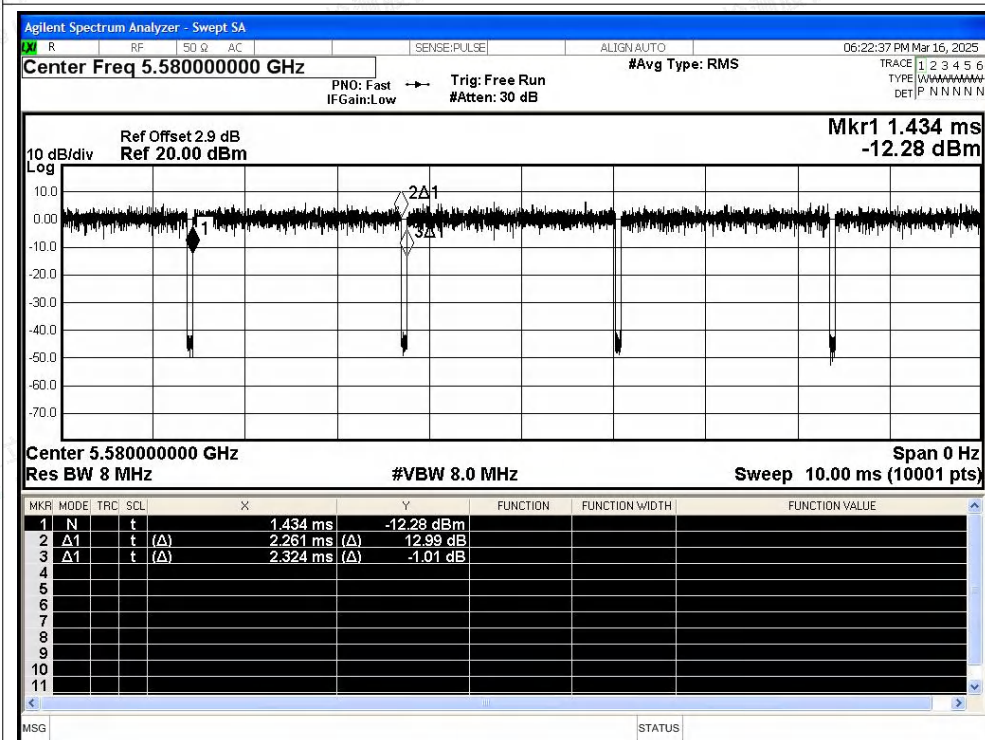


## Duty Cycle NVNT n20 5500MHz Ant1

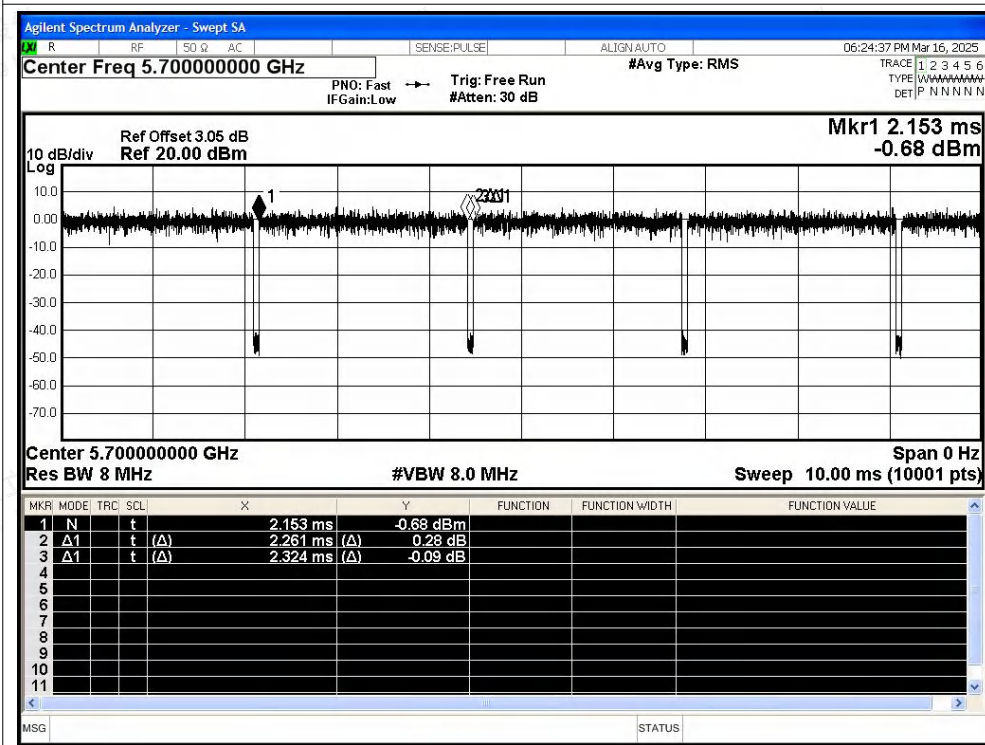




## Duty Cycle NVNT n20 5580MHz Ant1



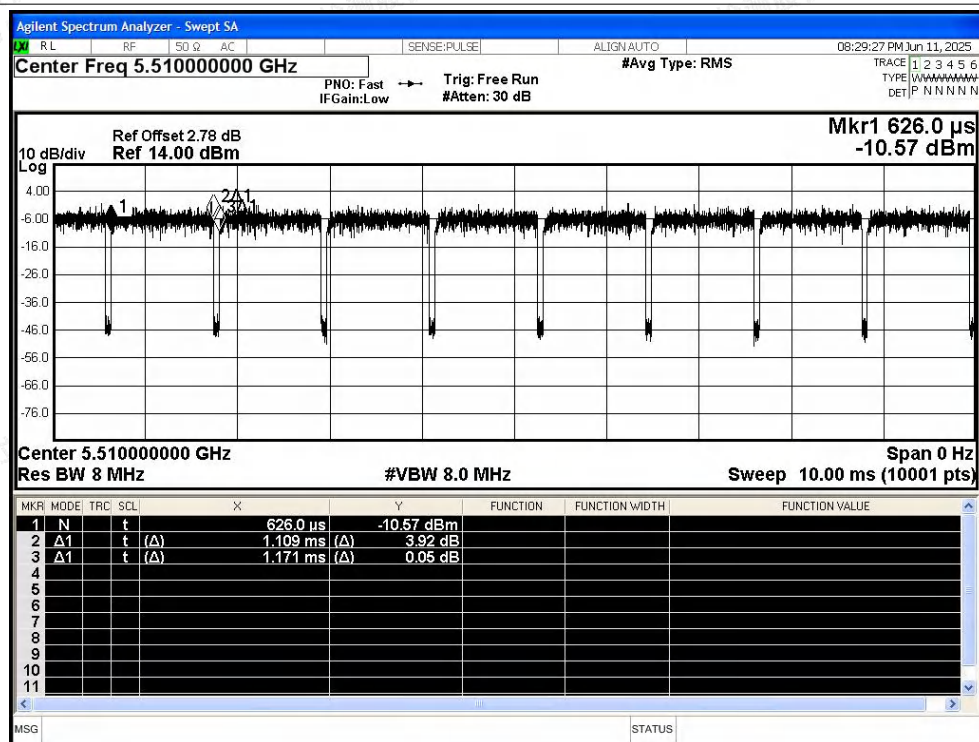
## Duty Cycle NVNT n20 5700MHz Ant1



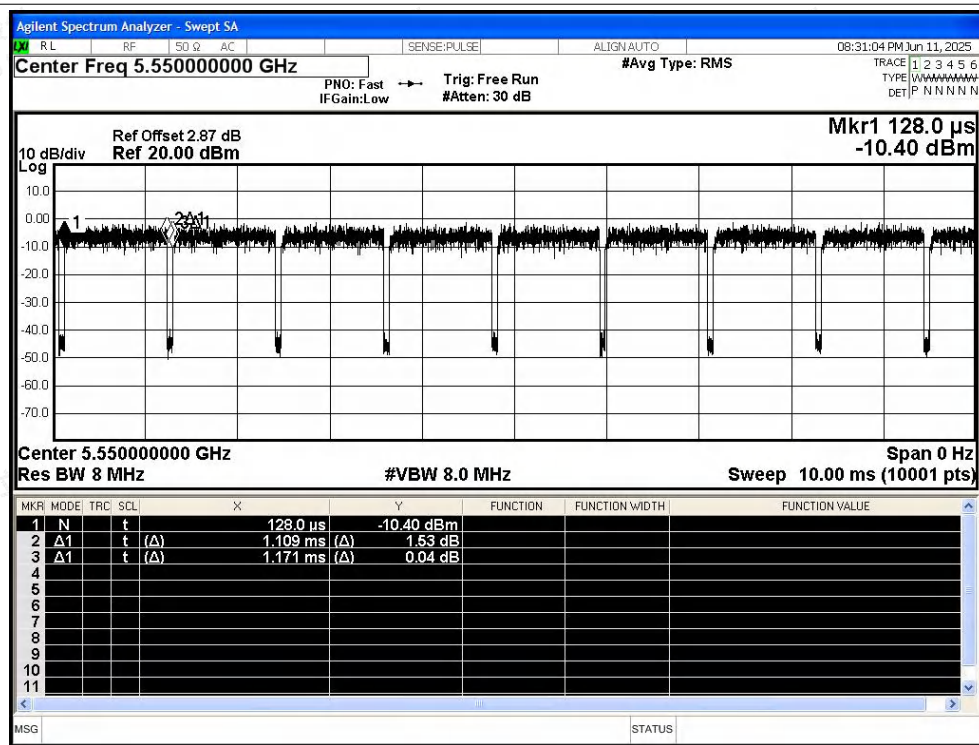
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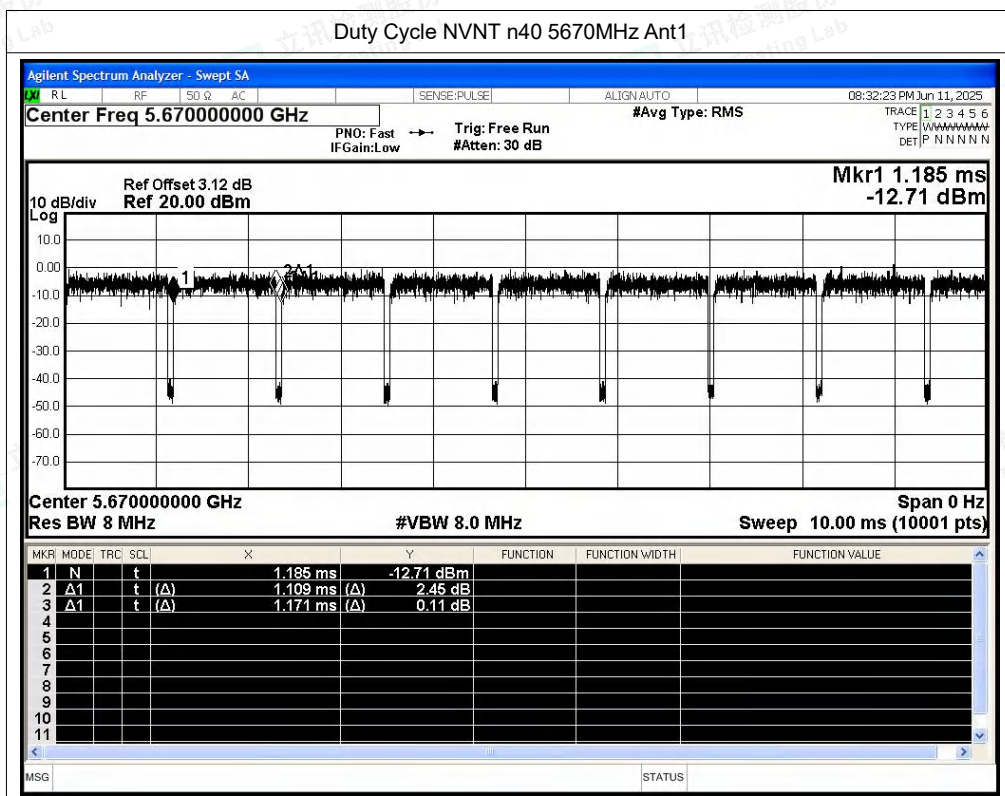


## Duty Cycle NVNT n40 5510MHz Ant1



## Duty Cycle NVNT n40 5550MHz Ant1





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