



## Appendix D

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

**Product Name: Network Player**

**Test Model: 6000N Play**

#### Environmental Conditions

|                    |            |
|--------------------|------------|
| Temperature:       | 23.5° C    |
| Relative Humidity: | 52.6%      |
| ATM Pressure:      | 100.0 kPa  |
| Test Engineer:     | Sean Huang |
| Supervised by:     | Nick Peng  |





## D.1 -26dB Bandwidth

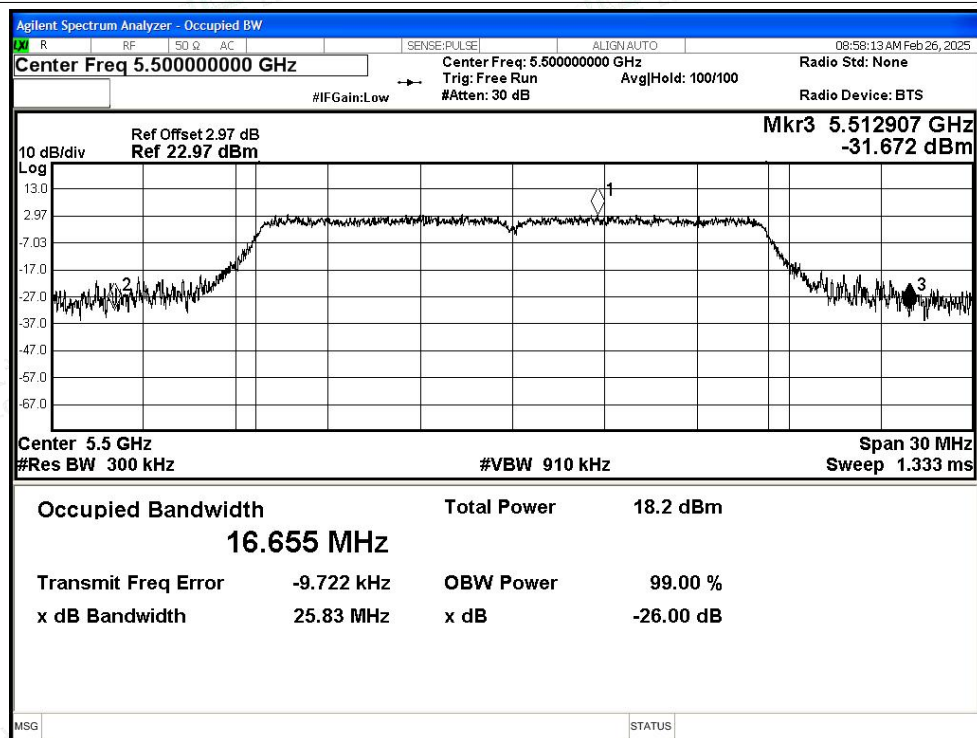
| Condition | Mode | Frequency (MHz) | Antenna | -26 dB Bandwidth (MHz) | Limit -26 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|------------------------|------------------------------|---------|
| NVNT      | a    | 5500            | Ant1    | 25.834                 | ---                          | Pass    |
| NVNT      | a    | 5580            | Ant1    | 27.533                 | ---                          | Pass    |
| NVNT      | a    | 5700            | Ant1    | 26.918                 | ---                          | Pass    |
| NVNT      | n20  | 5500            | Ant1    | 25.927                 | ---                          | Pass    |
| NVNT      | n20  | 5580            | Ant1    | 28.539                 | ---                          | Pass    |
| NVNT      | n20  | 5700            | Ant1    | 28.123                 | ---                          | Pass    |



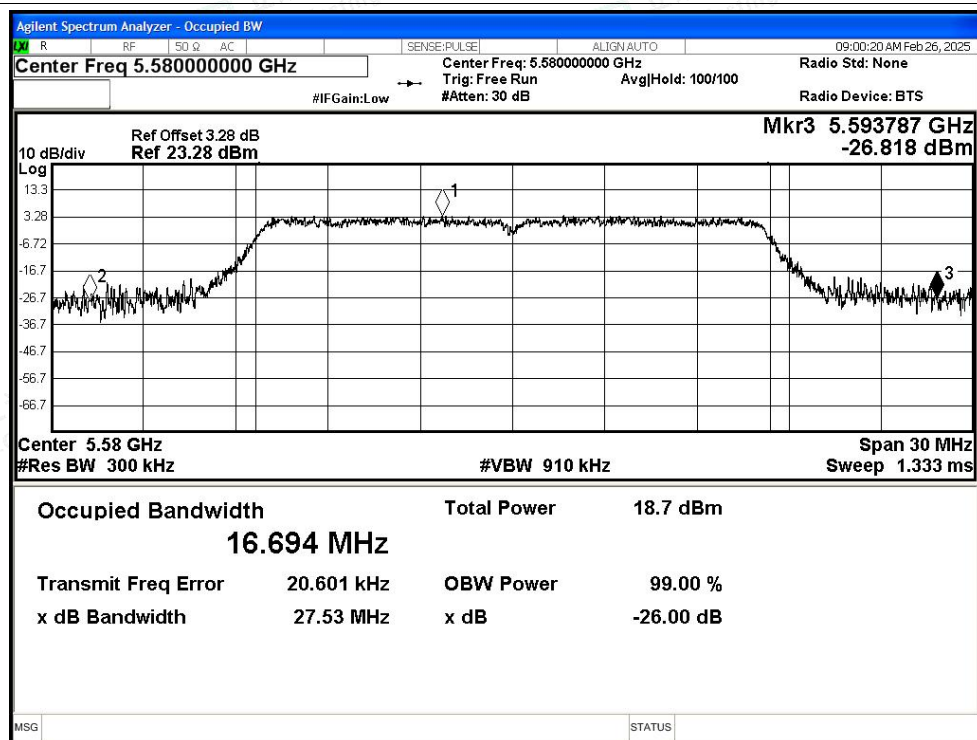


## Test Graphs

-26dB Bandwidth NVNT a 5500MHz Ant1



-26dB Bandwidth NVNT a 5580MHz Ant1



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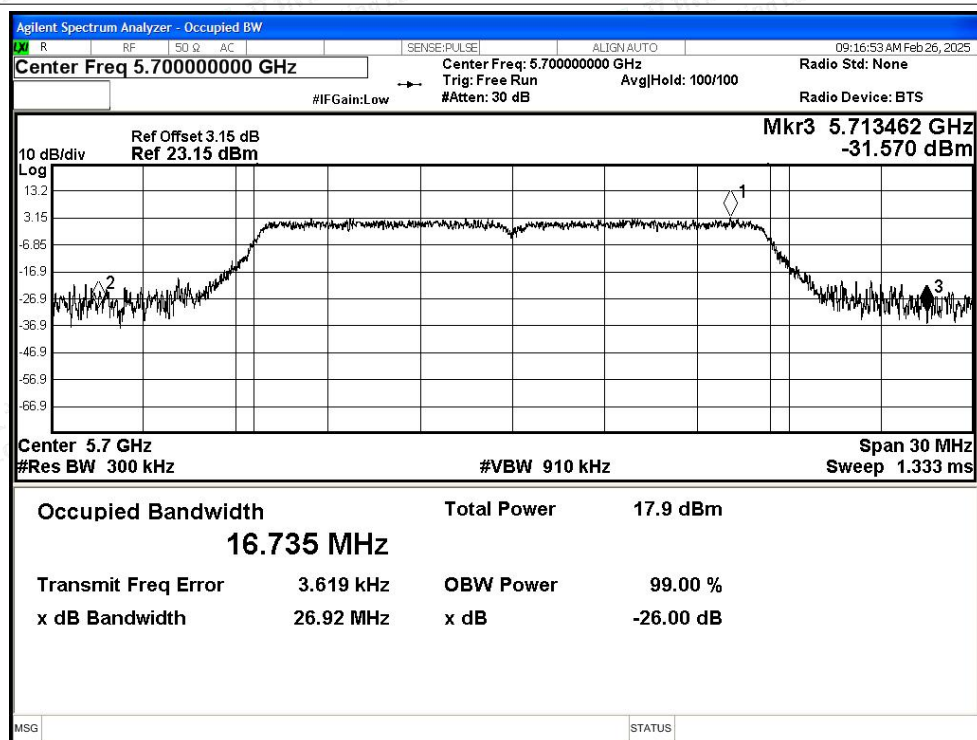
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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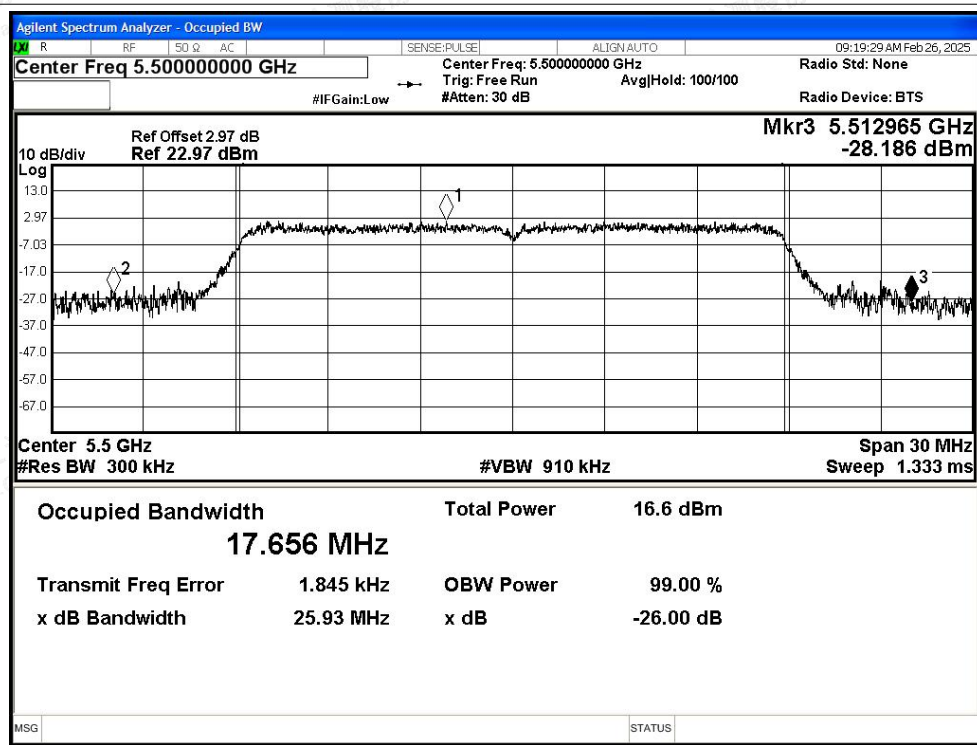
Scan code to check authenticity



-26dB Bandwidth NVNT a 5700MHz Ant1



-26dB Bandwidth NVNT n20 5500MHz Ant1



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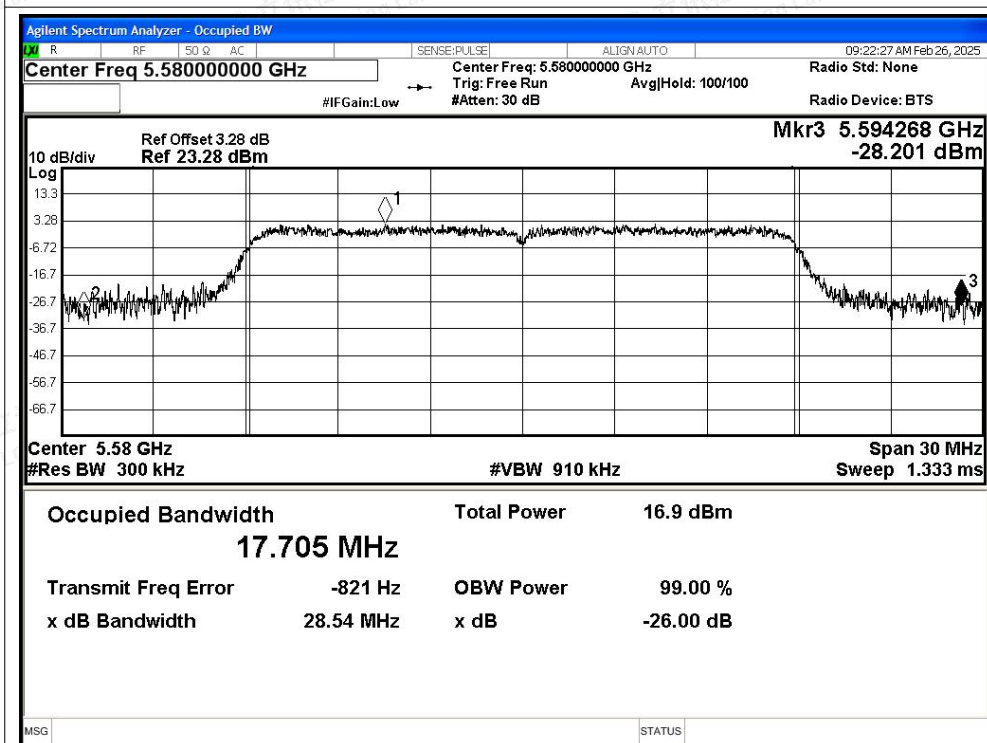
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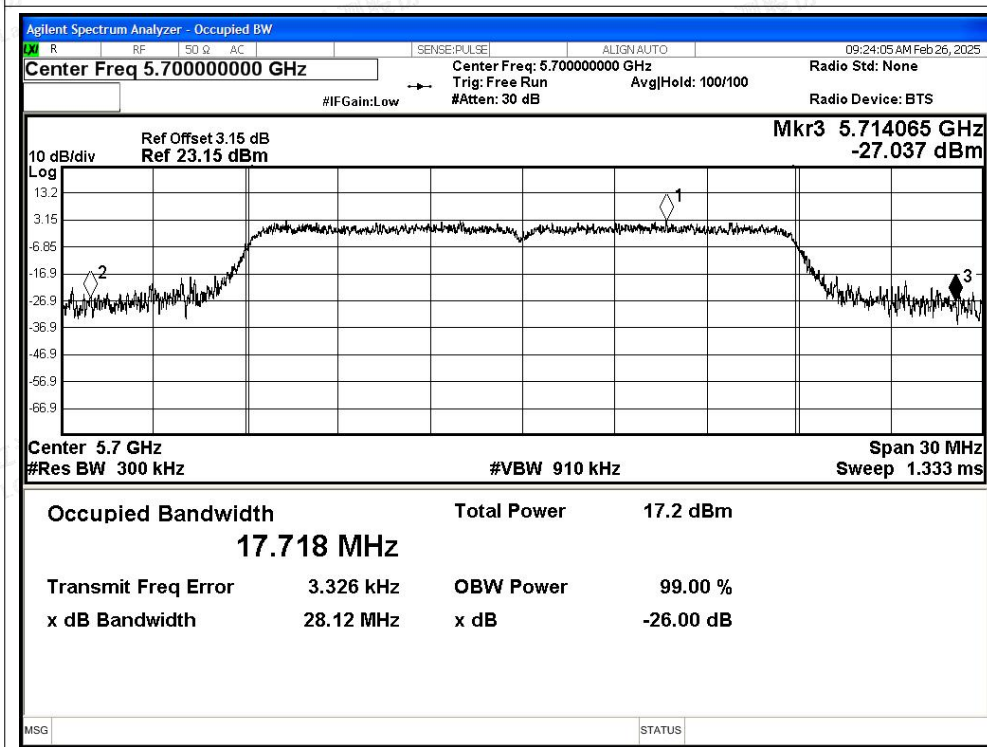
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-26dB Bandwidth NVNT n20 5580MHz Ant1



-26dB Bandwidth NVNT n20 5700MHz Ant1



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## D.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    | 12.56                 | 0.24             | 12.8              | 24          | Pass    |
| NVNT      | a    | 5580            | Ant1    | 12.91                 | 0.24             | 13.15             | 24          | Pass    |
| NVNT      | a    | 5700            | Ant1    | 12.26                 | 0.24             | 12.5              | 24          | Pass    |
| NVNT      | n20  | 5500            | Ant1    | 11.09                 | 0.12             | 11.21             | 24          | Pass    |
| NVNT      | n20  | 5580            | Ant1    | 11.37                 | 0.12             | 11.49             | 24          | Pass    |
| NVNT      | n20  | 5700            | Ant1    | 11.66                 | 0.12             | 11.78             | 24          | Pass    |





### D.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    | 1.89                    | 0.24             | 2.13                | 11              | Pass    |
| NVNT      | a    | 5580            | Ant1    | 2.22                    | 0.24             | 2.46                | 11              | Pass    |
| NVNT      | a    | 5700            | Ant1    | 1.51                    | 0.24             | 1.75                | 11              | Pass    |
| NVNT      | n20  | 5500            | Ant1    | 0.13                    | 0.12             | 0.25                | 11              | Pass    |
| NVNT      | n20  | 5580            | Ant1    | 0.48                    | 0.12             | 0.6                 | 11              | Pass    |
| NVNT      | n20  | 5700            | Ant1    | 0.92                    | 0.12             | 1.04                | 11              | Pass    |

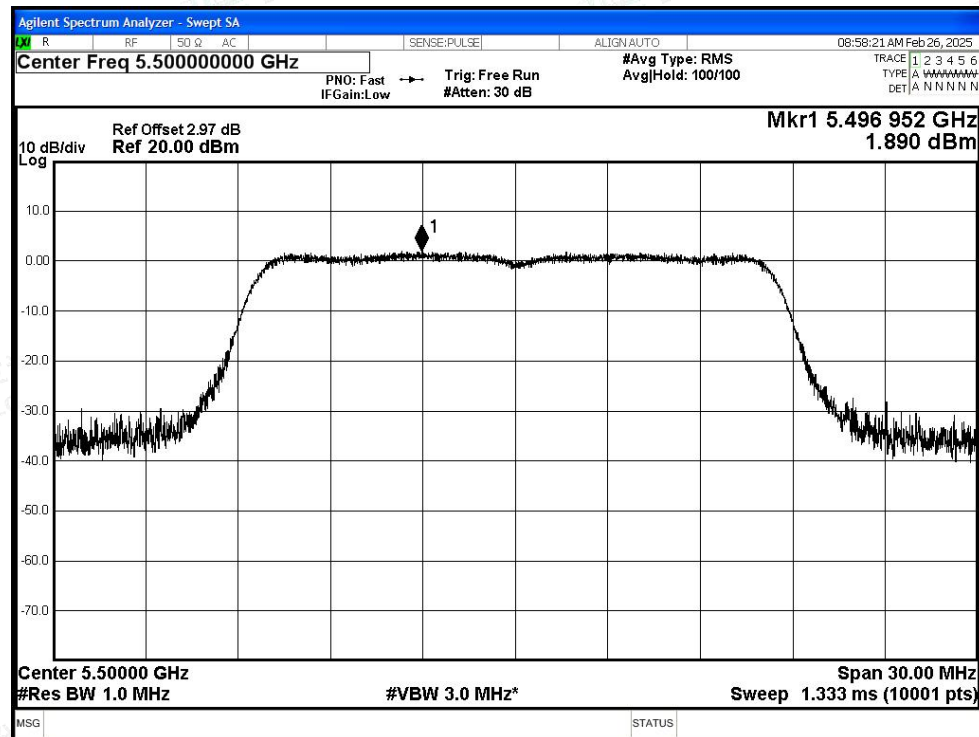




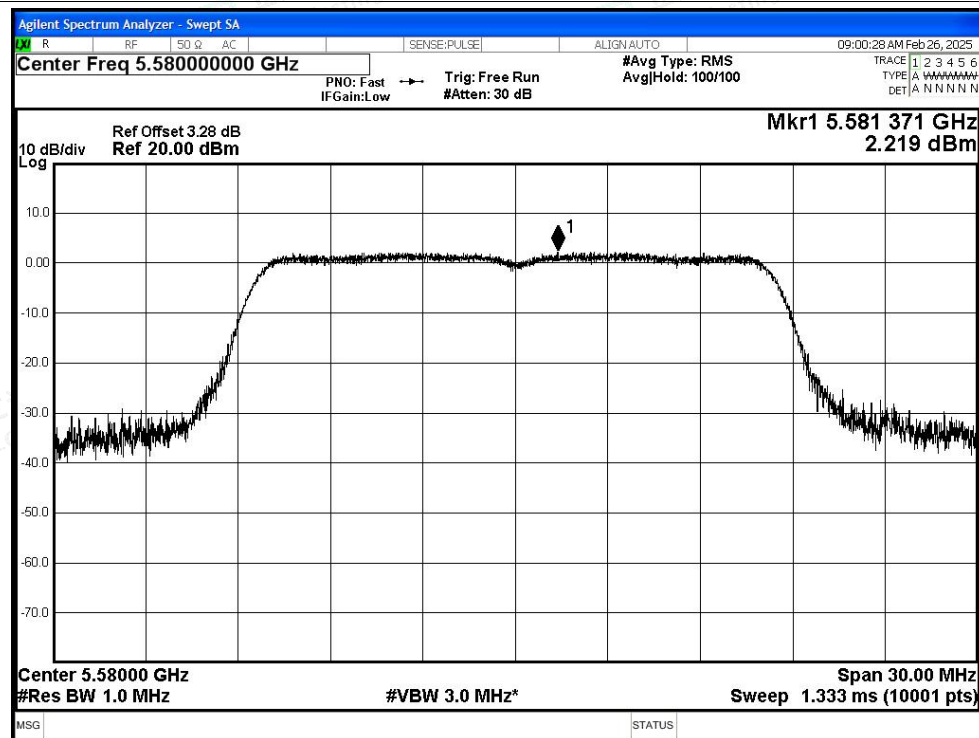


## Test Graphs

PSD NVNT a 5500MHz Ant1



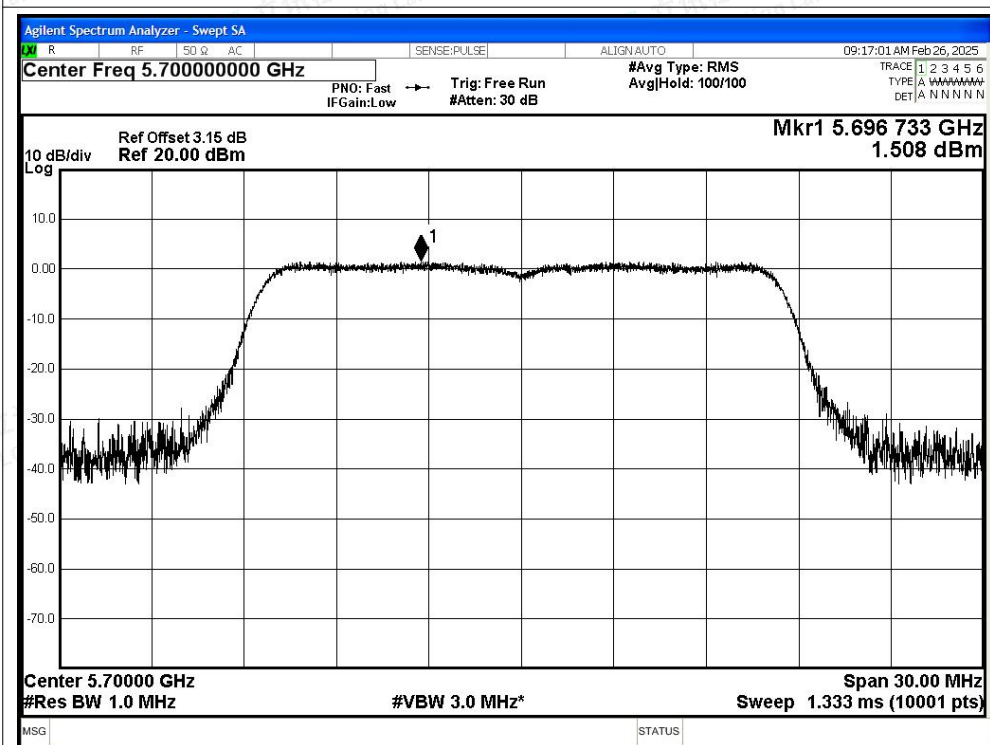
PSD NVNT a 5580MHz Ant1



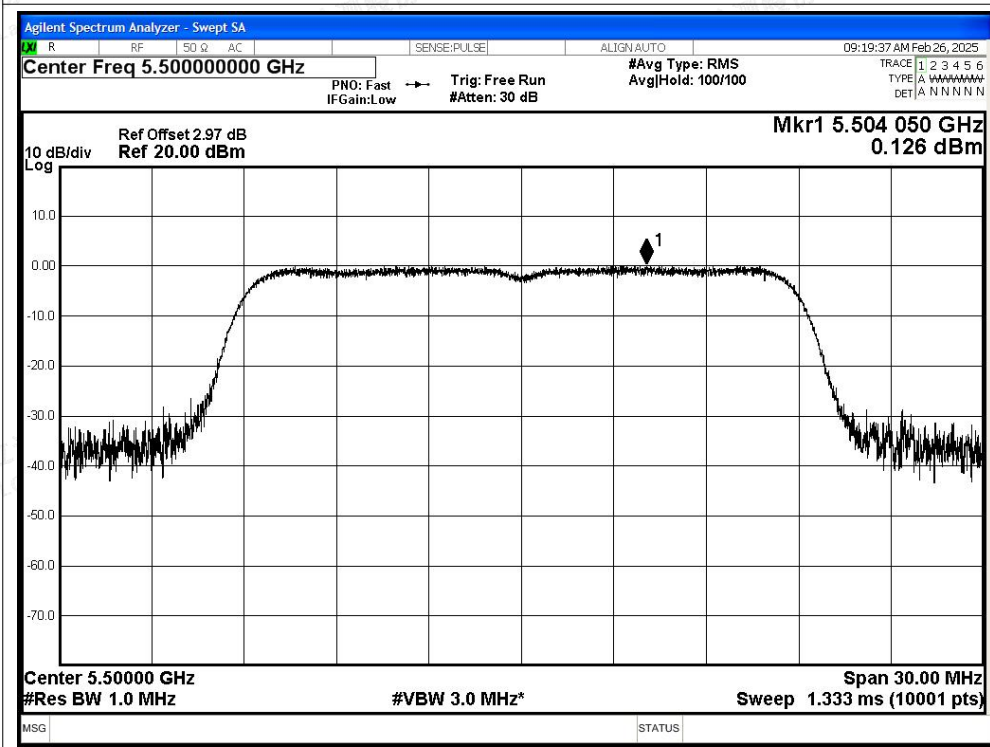




PSD NVNT a 5700MHz Ant1



PSD NVNT n20 5500MHz Ant1

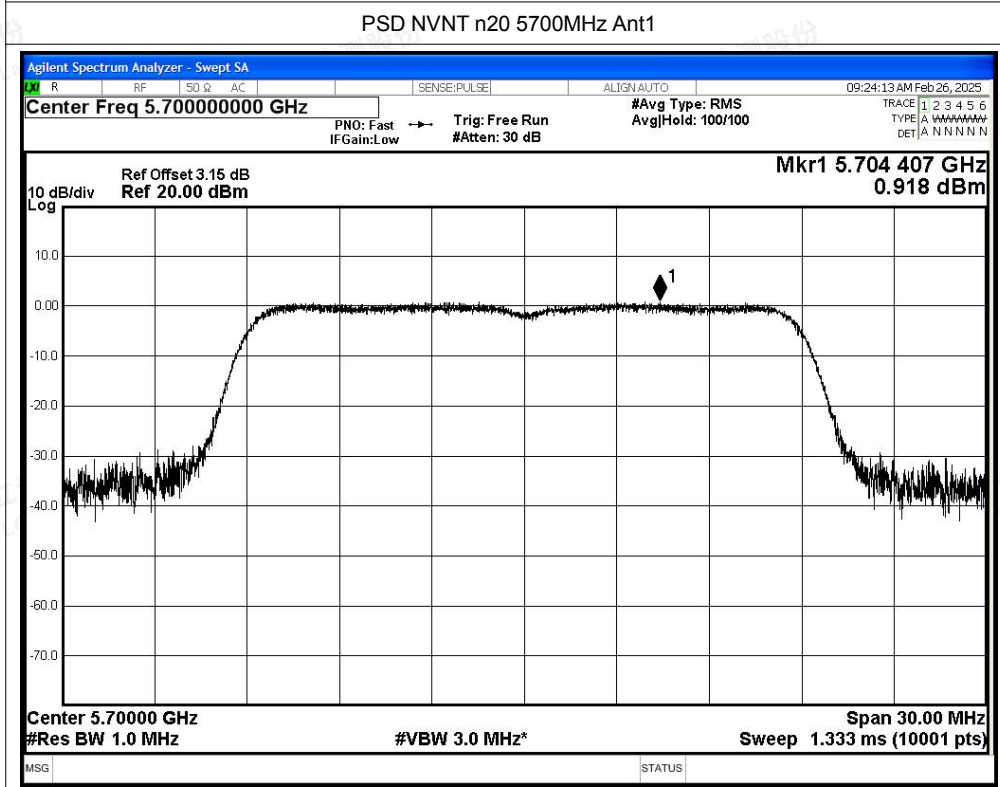
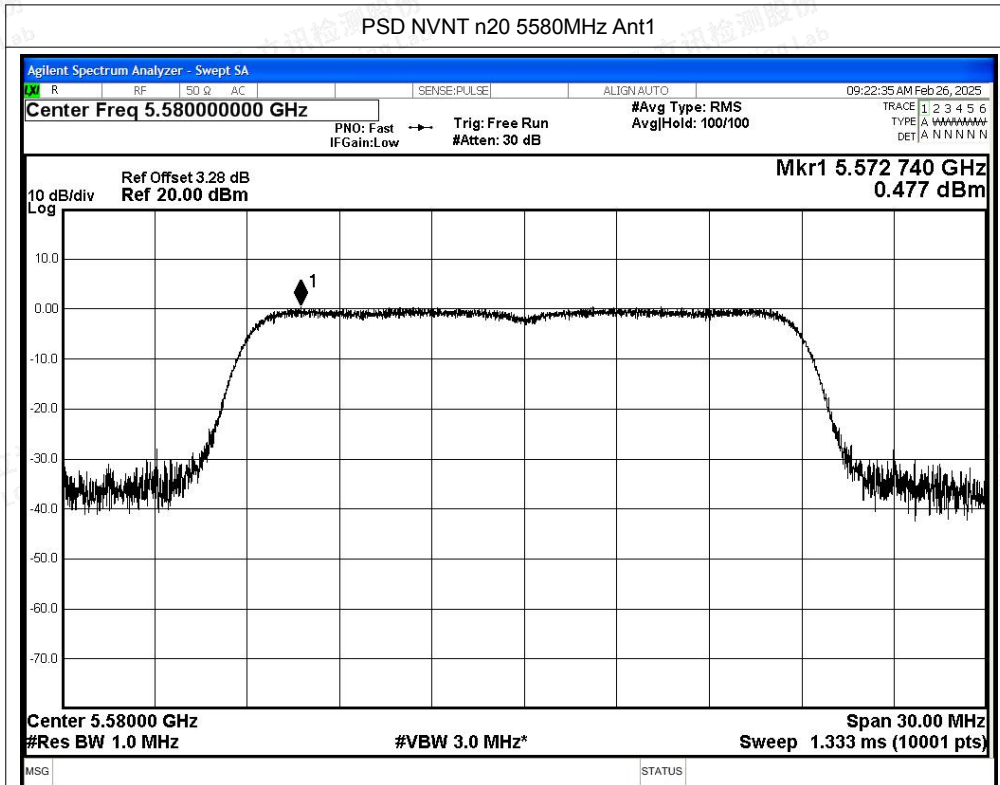


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## D.4 Restrict Band

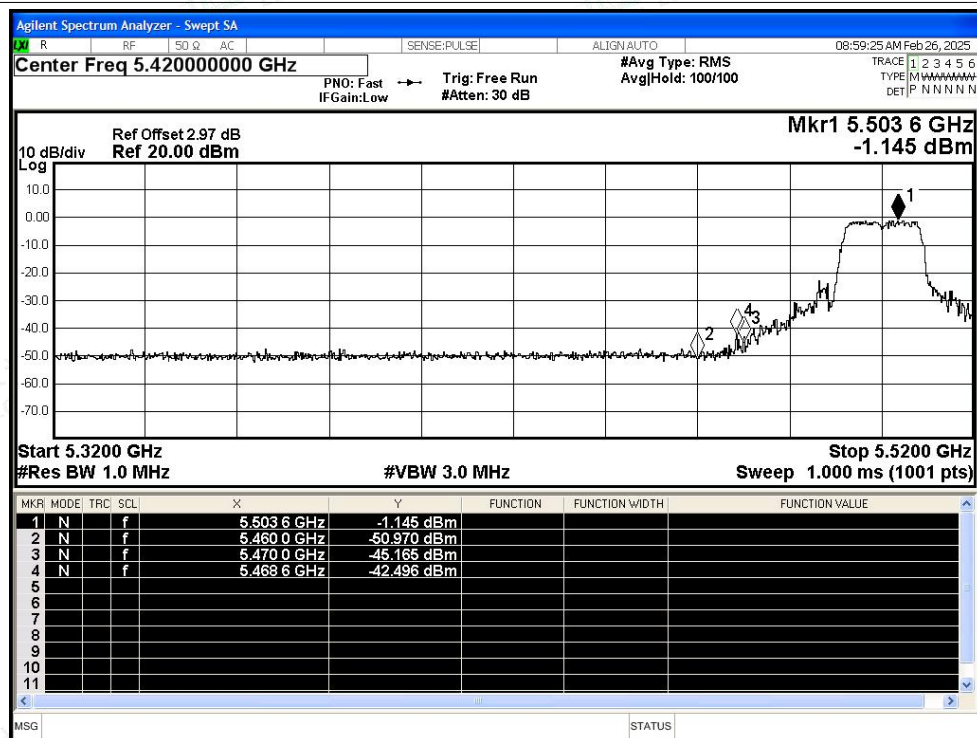
| Condition | Mode | Frequency (MHz) | Antenna | Spur Freq (MHz) | Power (dBm) | Gain (dBi) | Duty Factor (dB) | E (dBuV/m) | Detector | Limit (dBuV/m) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|------------|------------------|------------|----------|----------------|---------|
| NVNT      | a    | 5500            | Ant1    | 5460            | -50.97      | 2.34       | -                | 46.60      | Peak     | 68.2           | Pass    |
| NVNT      | a    | 5500            | Ant1    | 5460            | -57.81      | 2.34       | 0.24             | 40.00      | Average  | 54             | Pass    |
| NVNT      | a    | 5500            | Ant1    | 5468.6          | -42.5       | 2.34       | -                | 55.07      | Peak     | 68.2           | Pass    |
| NVNT      | a    | 5500            | Ant1    | 5470            | -56.61      | 2.34       | 0.24             | 41.20      | Average  | 54             | Pass    |
| NVNT      | a    | 5500            | Ant1    | 5470            | -45.17      | 2.34       | -                | 52.40      | Peak     | 68.2           | Pass    |
| NVNT      | a    | 5700            | Ant1    | 5725            | -43.99      | 2.34       | -                | 53.58      | Peak     | 68.2           | Pass    |
| NVNT      | a    | 5700            | Ant1    | 5725            | -56.34      | 2.34       | 0.24             | 41.47      | Average  | 54             | Pass    |
| NVNT      | a    | 5700            | Ant1    | 5727.6          | -39.36      | 2.34       | -                | 58.21      | Peak     | 68.2           | Pass    |
| NVNT      | a    | 5700            | Ant1    | 5725.6          | -55.18      | 2.34       | 0.24             | 42.63      | Average  | 54             | Pass    |
| NVNT      | a    | 5700            | Ant1    | 5735            | -48.71      | 2.34       | -                | 48.86      | Peak     | 68.2           | Pass    |
| NVNT      | a    | 5700            | Ant1    | 5735            | -57.87      | 2.34       | 0.24             | 39.94      | Average  | 54             | Pass    |
| NVNT      | n20  | 5500            | Ant1    | 5460            | -49.26      | 2.34       | -                | 48.31      | Peak     | 68.2           | Pass    |
| NVNT      | n20  | 5500            | Ant1    | 5460            | -57.31      | 2.34       | 0.12             | 40.38      | Average  | 54             | Pass    |
| NVNT      | n20  | 5500            | Ant1    | 5465.6          | -44.6       | 2.34       | -                | 52.97      | Peak     | 68.2           | Pass    |
| NVNT      | n20  | 5500            | Ant1    | 5469.6          | -56.1       | 2.34       | 0.12             | 41.59      | Average  | 54             | Pass    |
| NVNT      | n20  | 5500            | Ant1    | 5470            | -48.15      | 2.34       | -                | 49.42      | Peak     | 68.2           | Pass    |
| NVNT      | n20  | 5500            | Ant1    | 5470            | -56.9       | 2.34       | 0.12             | 40.79      | Average  | 54             | Pass    |
| NVNT      | n20  | 5700            | Ant1    | 5725            | -41.25      | 2.34       | -                | 56.32      | Peak     | 68.2           | Pass    |
| NVNT      | n20  | 5700            | Ant1    | 5725            | -54.32      | 2.34       | 0.12             | 43.37      | Average  | 54             | Pass    |
| NVNT      | n20  | 5700            | Ant1    | 5729.2          | -39.83      | 2.34       | -                | 57.74      | Peak     | 68.2           | Pass    |
| NVNT      | n20  | 5700            | Ant1    | 5726            | -52.63      | 2.34       | 0.12             | 45.06      | Average  | 54             | Pass    |
| NVNT      | n20  | 5700            | Ant1    | 5735            | -49.32      | 2.34       | -                | 48.25      | Peak     | 68.2           | Pass    |
| NVNT      | n20  | 5700            | Ant1    | 5735            | -57.01      | 2.34       | 0.12             | 40.68      | Average  | 54             | Pass    |



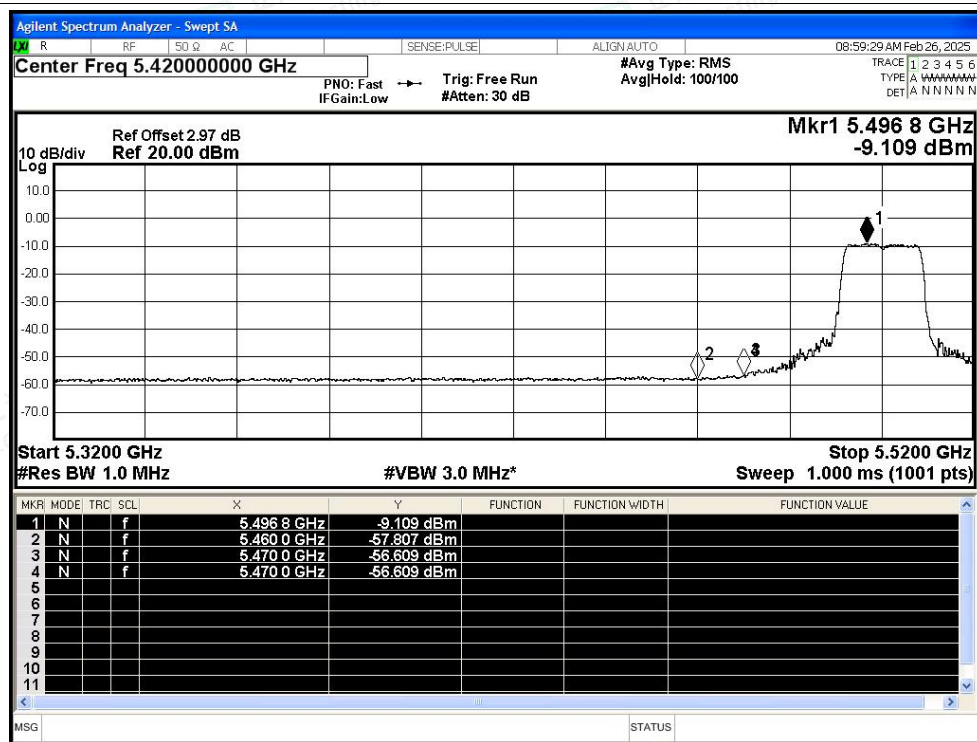


## Test Graphs

## Restrict Band NVNT a 5500MHz Ant1 Peak



## Restrict Band NVNT a 5500MHz Ant1 Average



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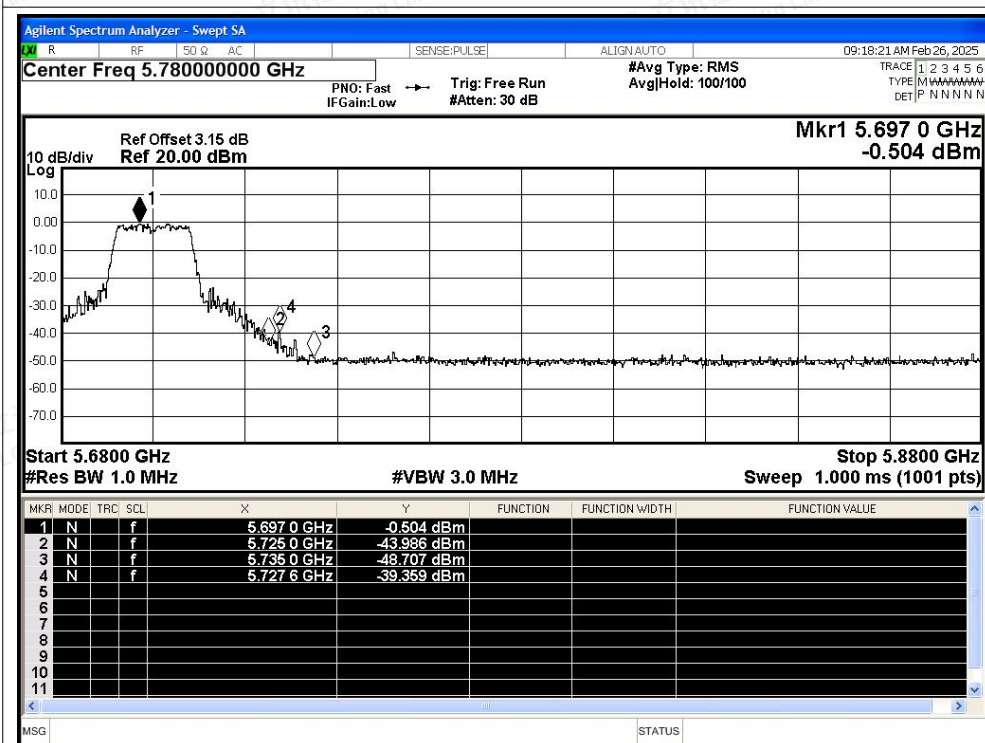
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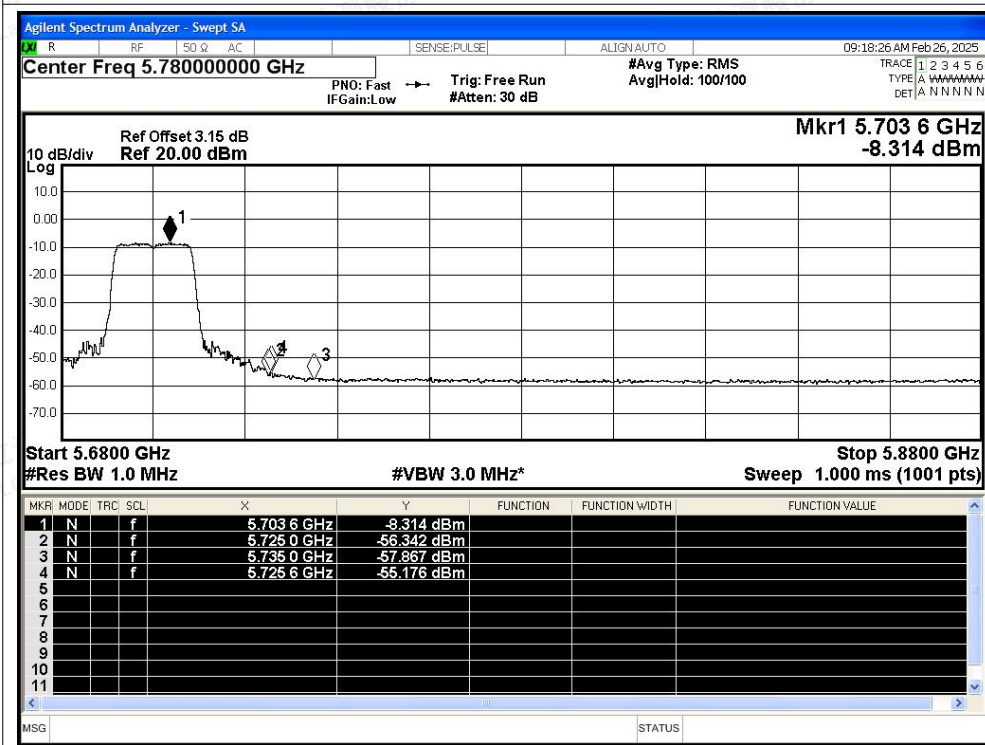
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## Restrict Band NVNT a 5700MHz Ant1 Peak



## Restrict Band NVNT a 5700MHz Ant1 Average



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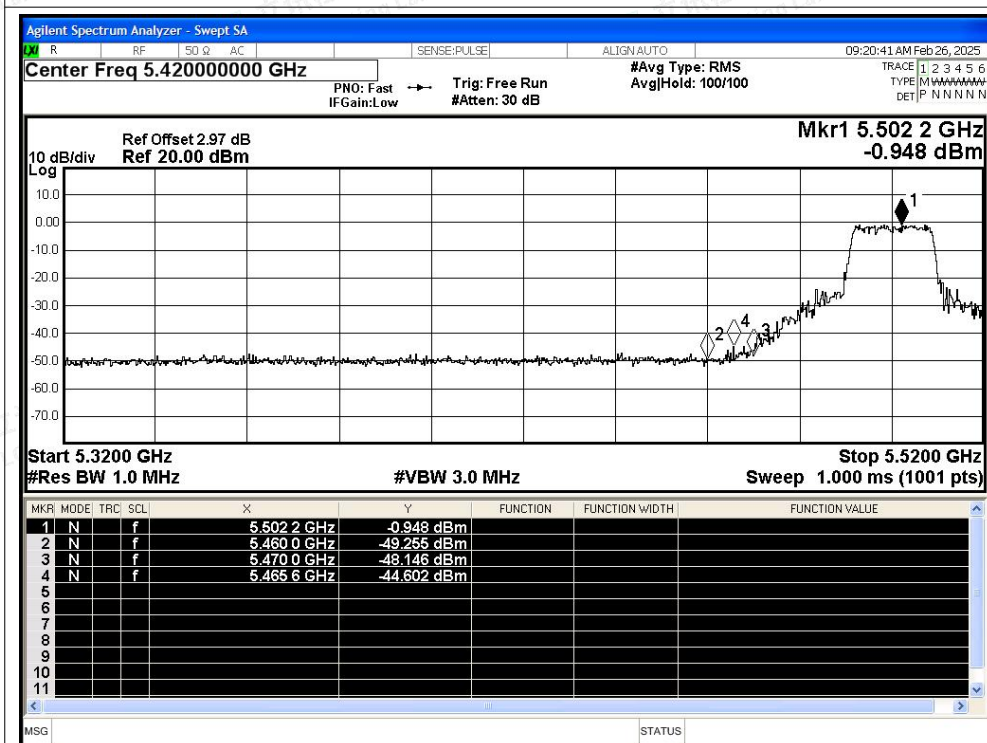
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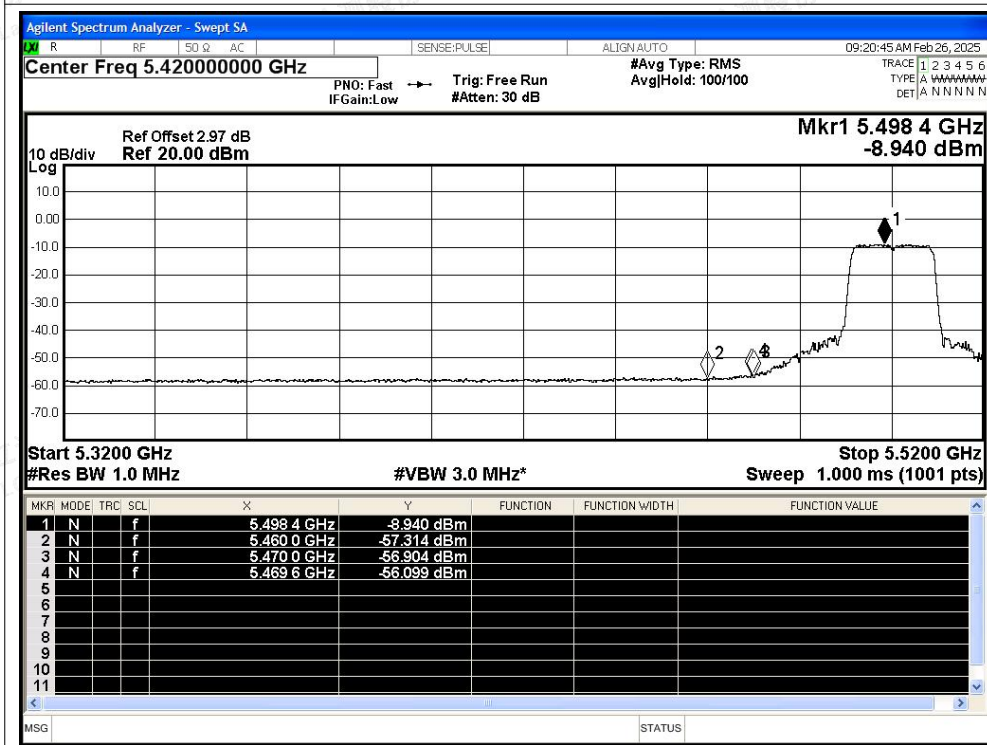




## Restrict Band NVNT n20 5500MHz Ant1 Peak



## Restrict Band NVNT n20 5500MHz Ant1 Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

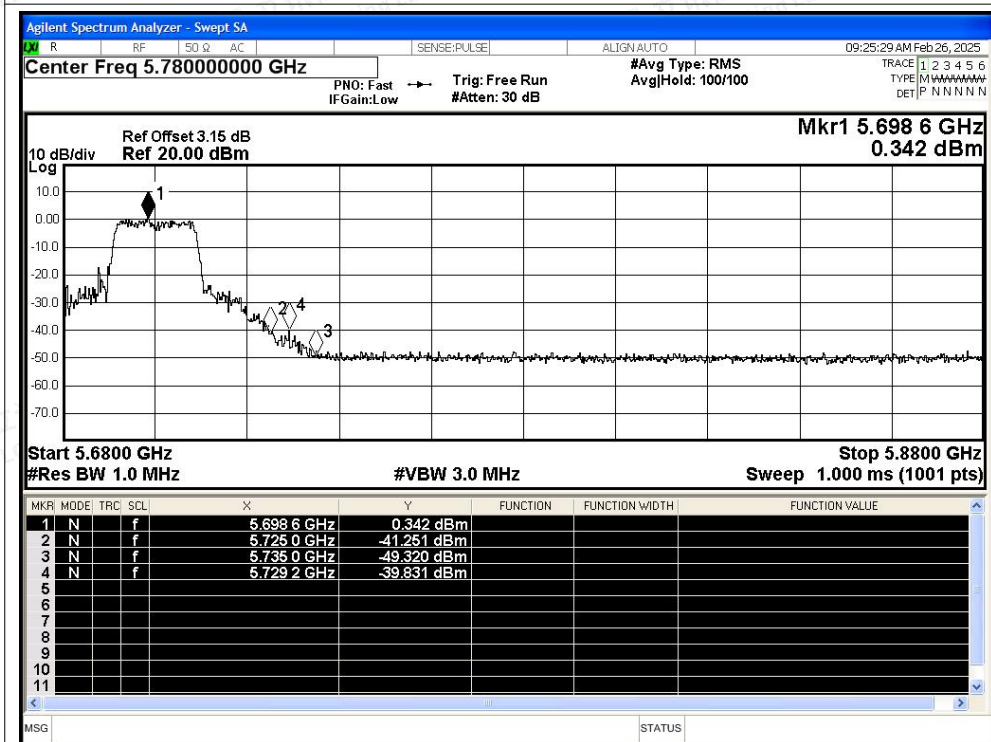
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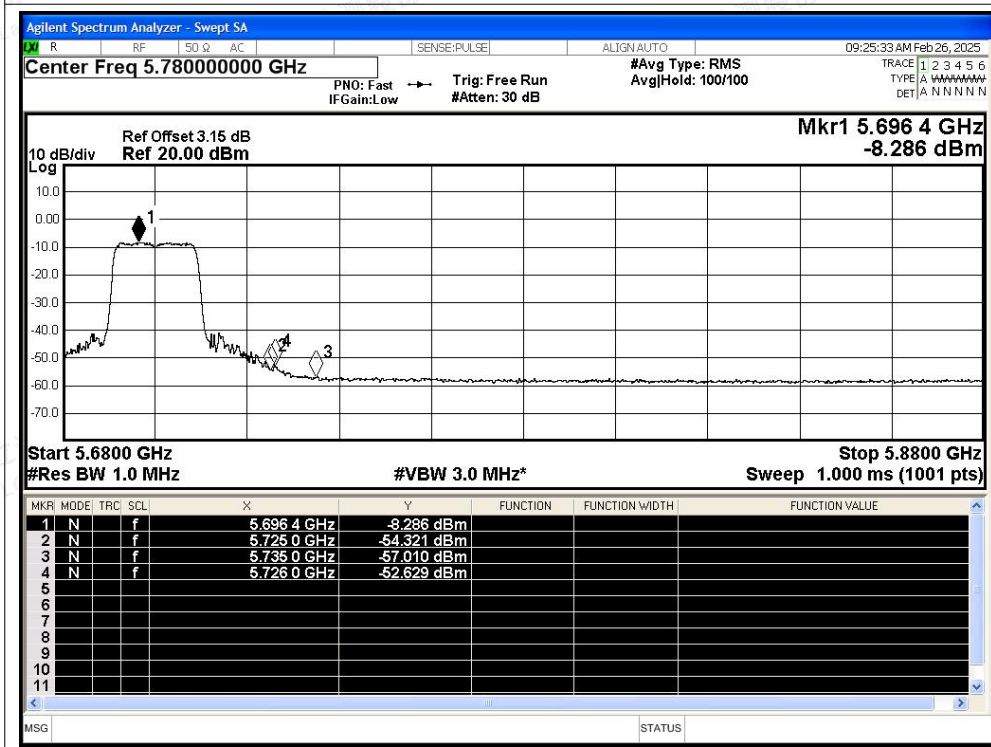
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## Restrict Band NVNT n20 5700MHz Ant1 Peak



## Restrict Band NVNT n20 5700MHz Ant1 Average







## D.5 Frequency Stability

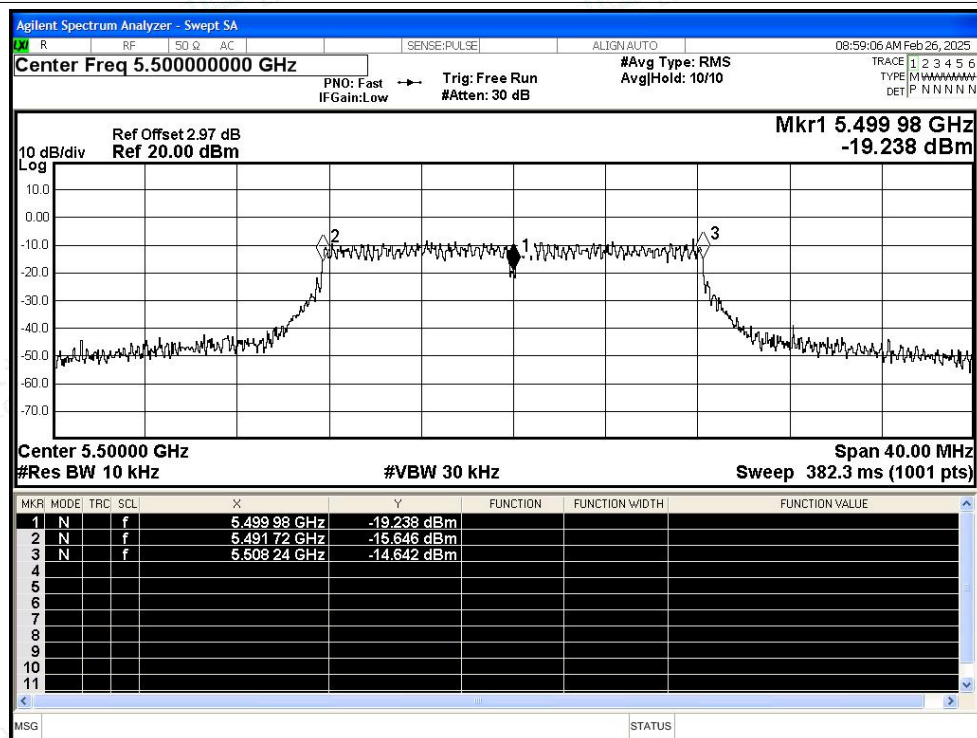
| Condition | Mode | Frequency (MHz) | Antenna | Measured Frequency (MHz) | Frequency Error (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|-----------|------|-----------------|---------|--------------------------|----------------------|-----------------|-------------|---------|
| NVNT      | a    | 5500            | Ant1    | 5499.98                  | -20000               | -3.64           | 25          | Pass    |
| NVNT      | a    | 5580            | Ant1    | 5579.98                  | -20000               | -3.58           | 25          | Pass    |
| NVNT      | a    | 5700            | Ant1    | 5699.98                  | -20000               | -3.51           | 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    |



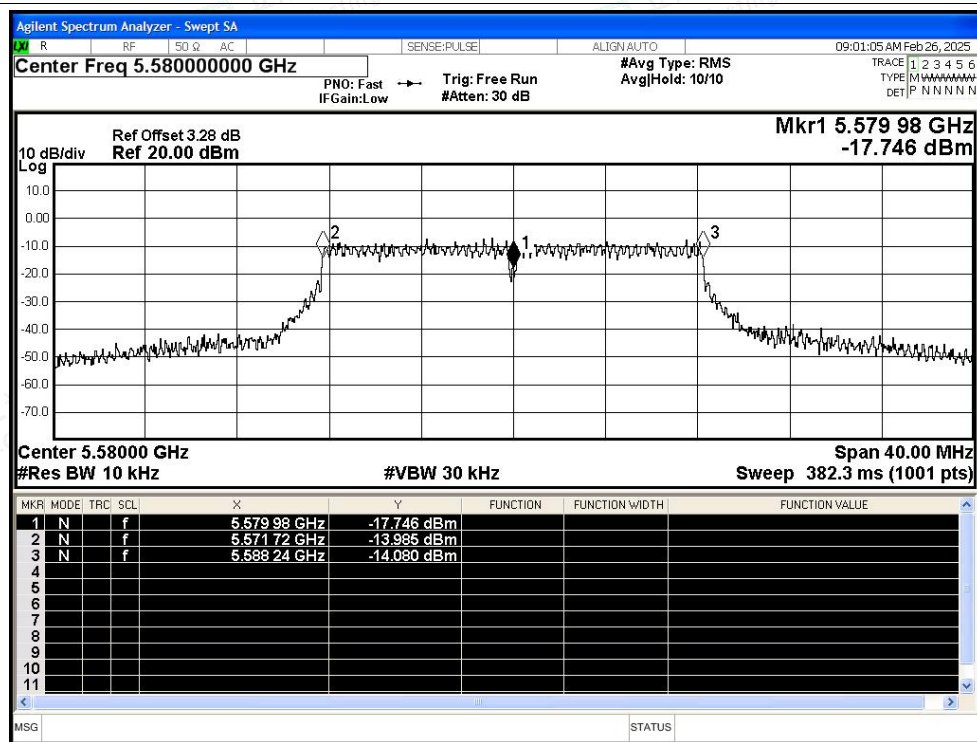


## Test Graphs

## Freq. Stability NVNT a 5500MHz Ant1



## Freq. Stability NVNT a 5580MHz Ant1



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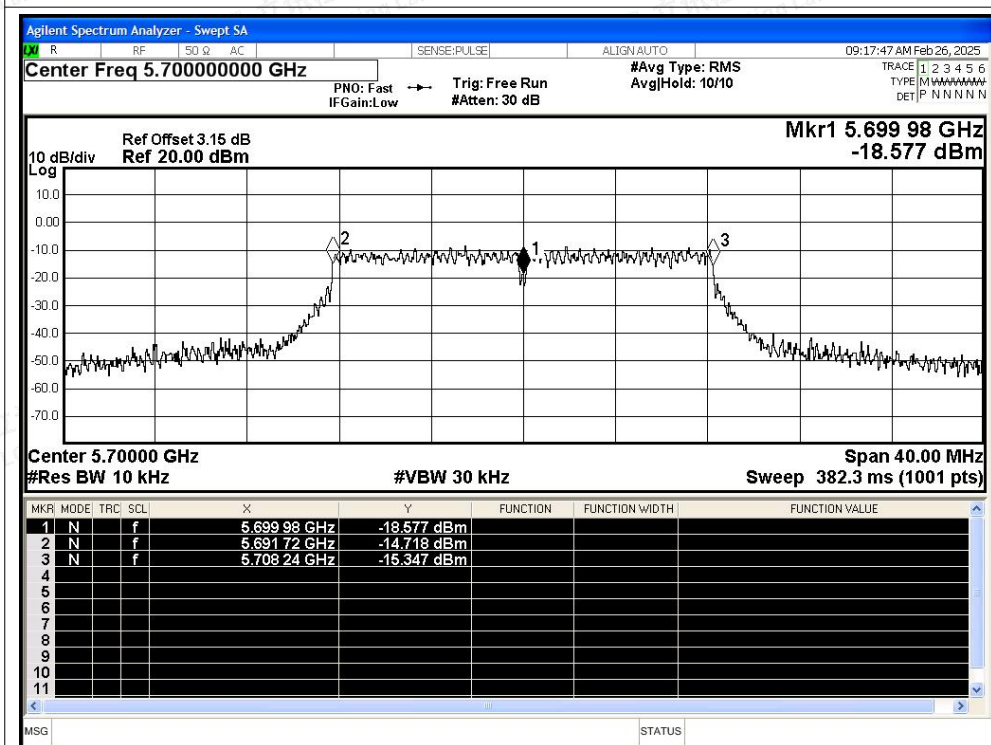
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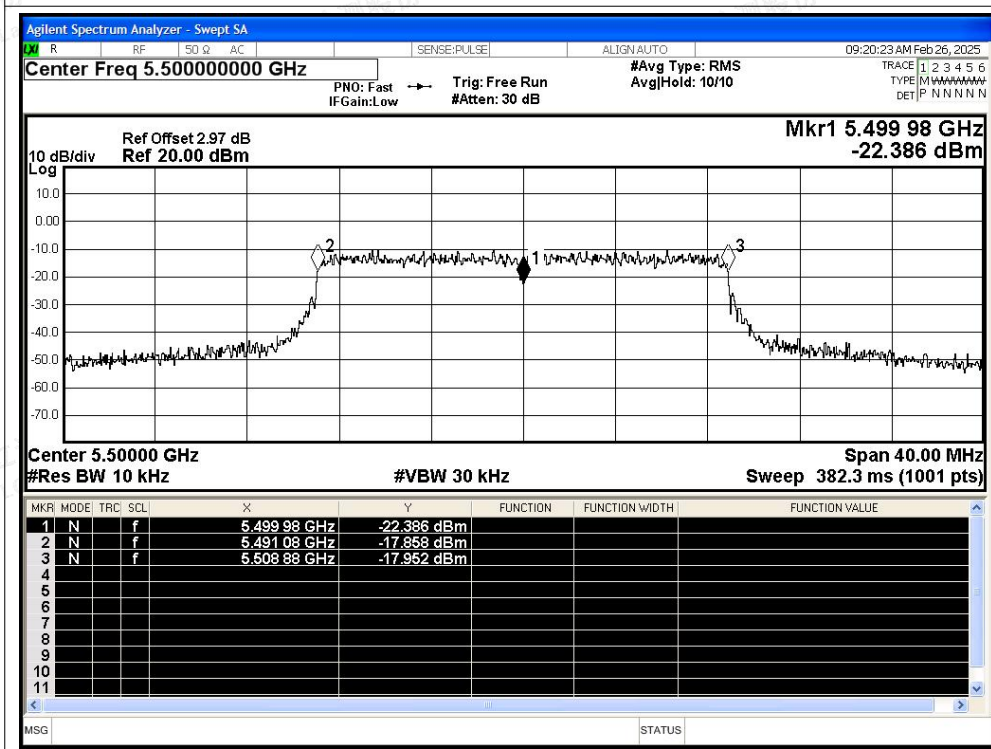
Scan code to check authenticity



## Freq. Stability NVNT a 5700MHz Ant1

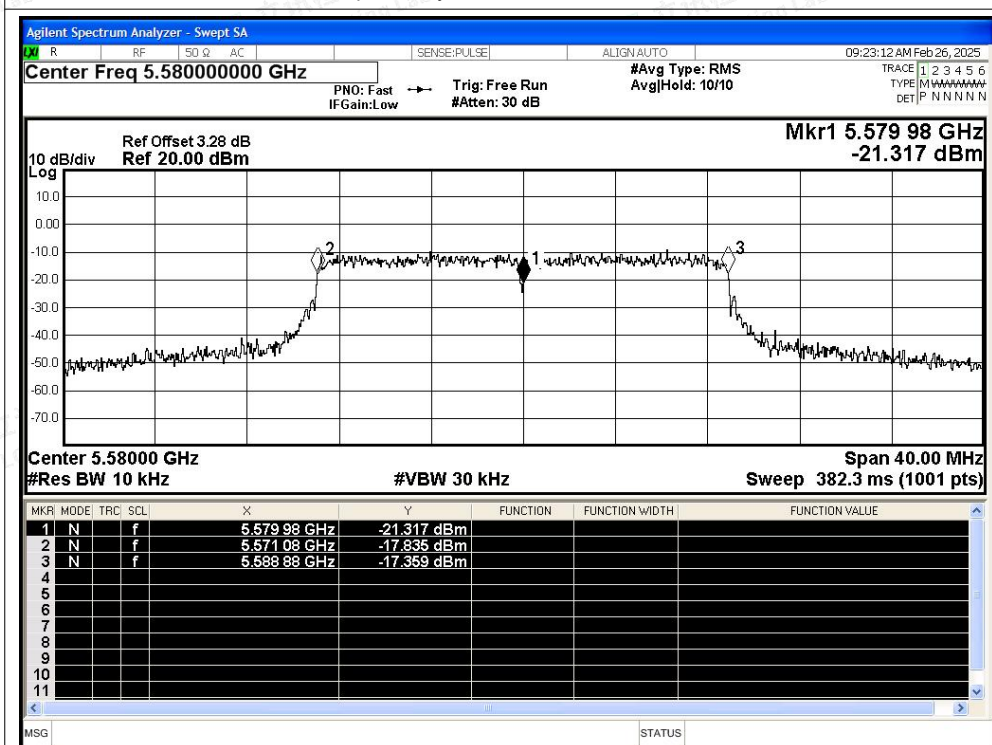


## Freq. Stability NVNT n20 5500MHz Ant1

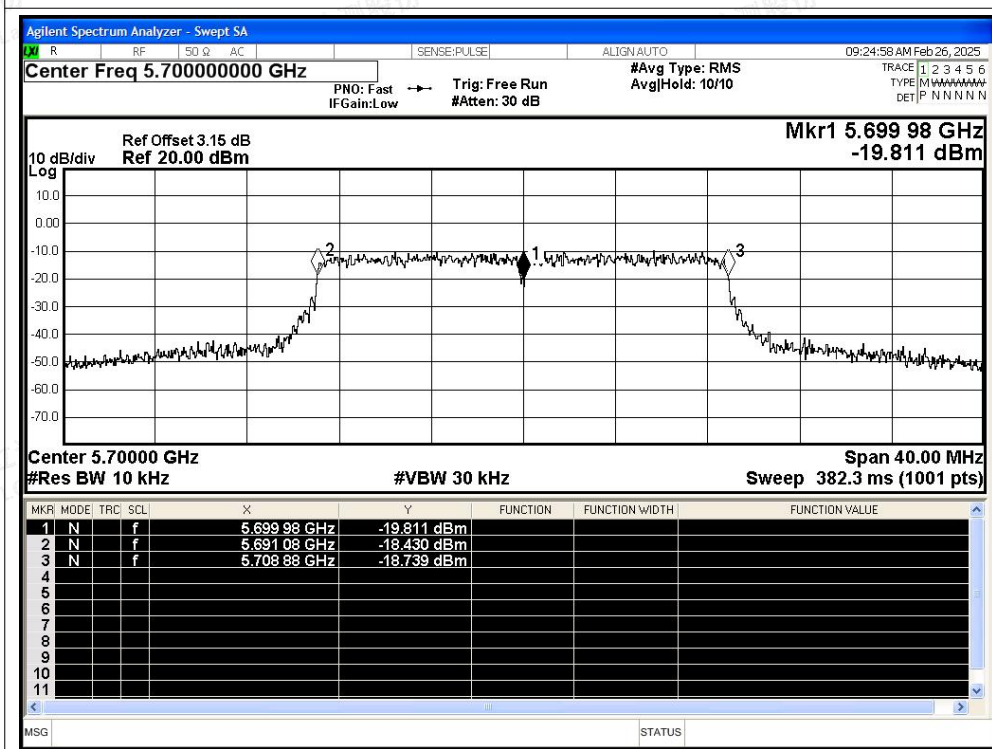




## Freq. Stability NVNT n20 5580MHz Ant1



## Freq. Stability NVNT n20 5700MHz Ant1



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## D.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      |



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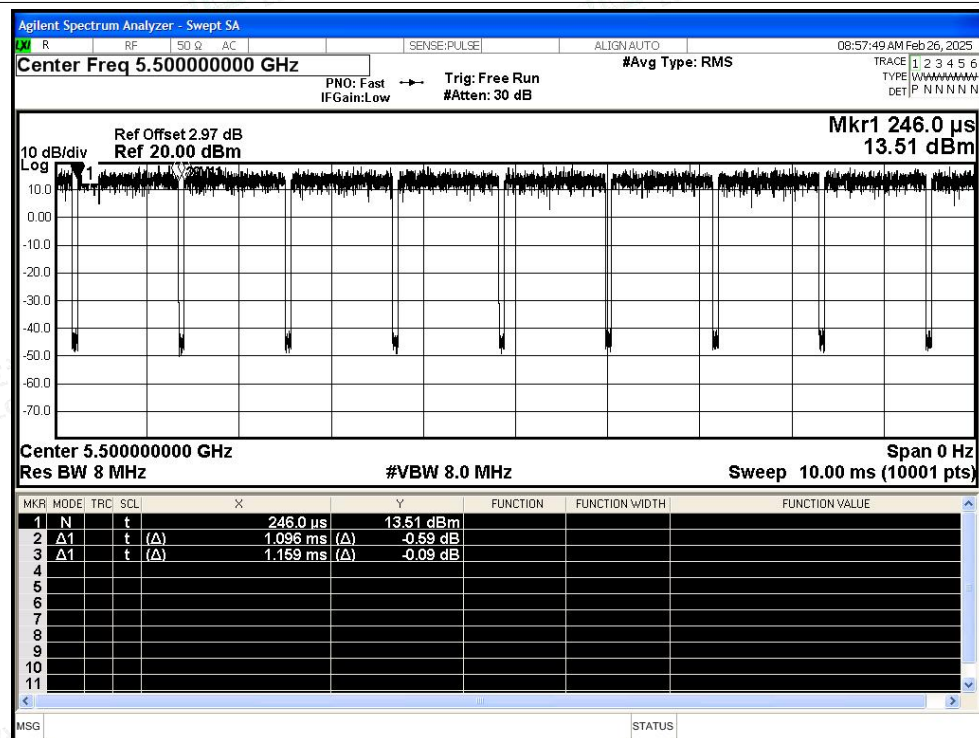
Scan code to check authenticity



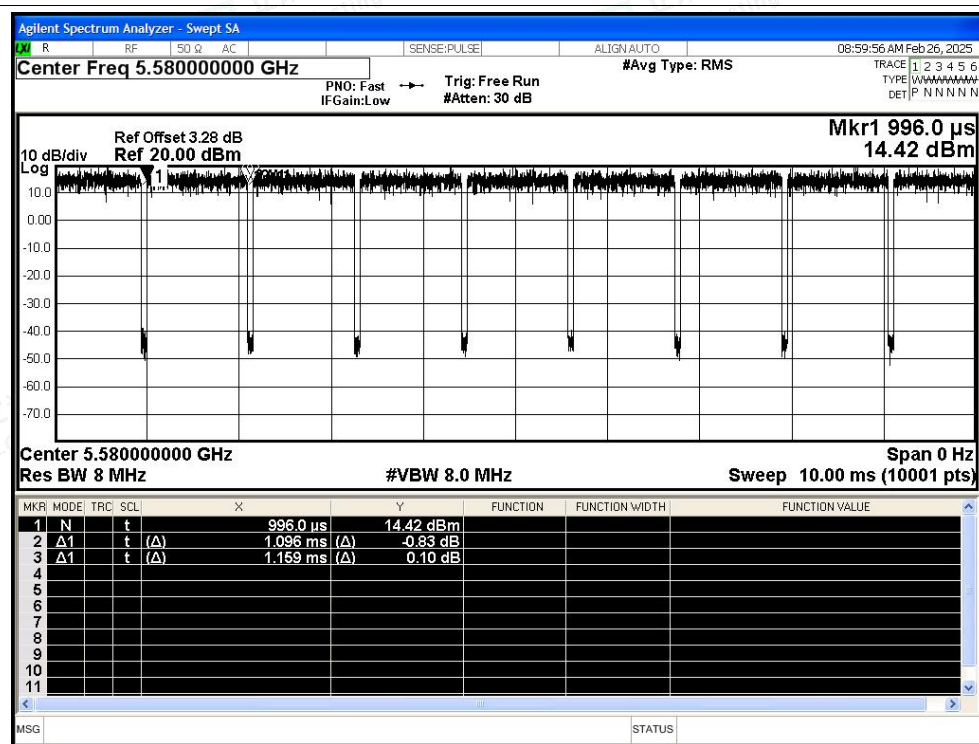


## Test Graphs

## Duty Cycle NVNT a 5500MHz Ant1



## Duty Cycle NVNT a 5580MHz Ant1



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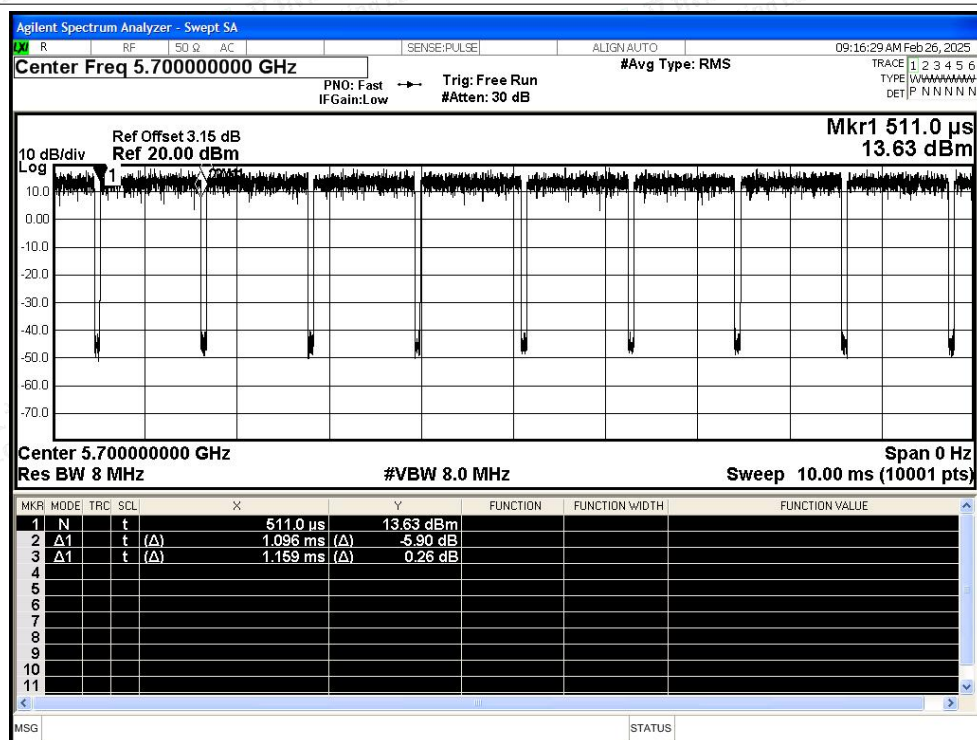
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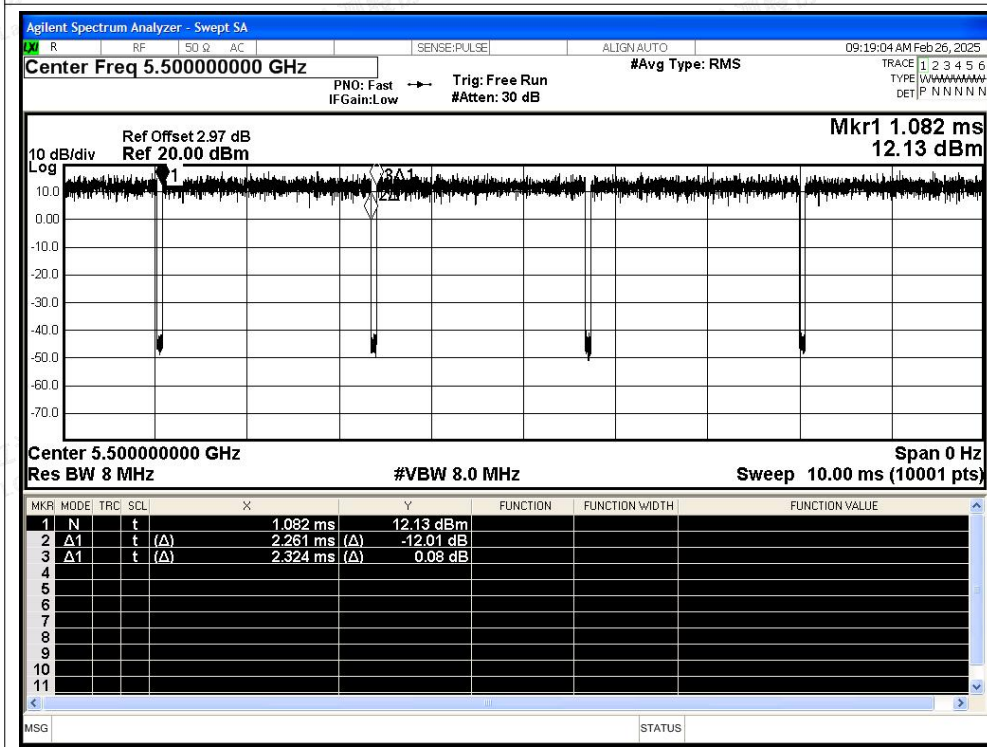




## Duty Cycle NVNT a 5700MHz Ant1



## Duty Cycle NVNT n20 5500MHz Ant1



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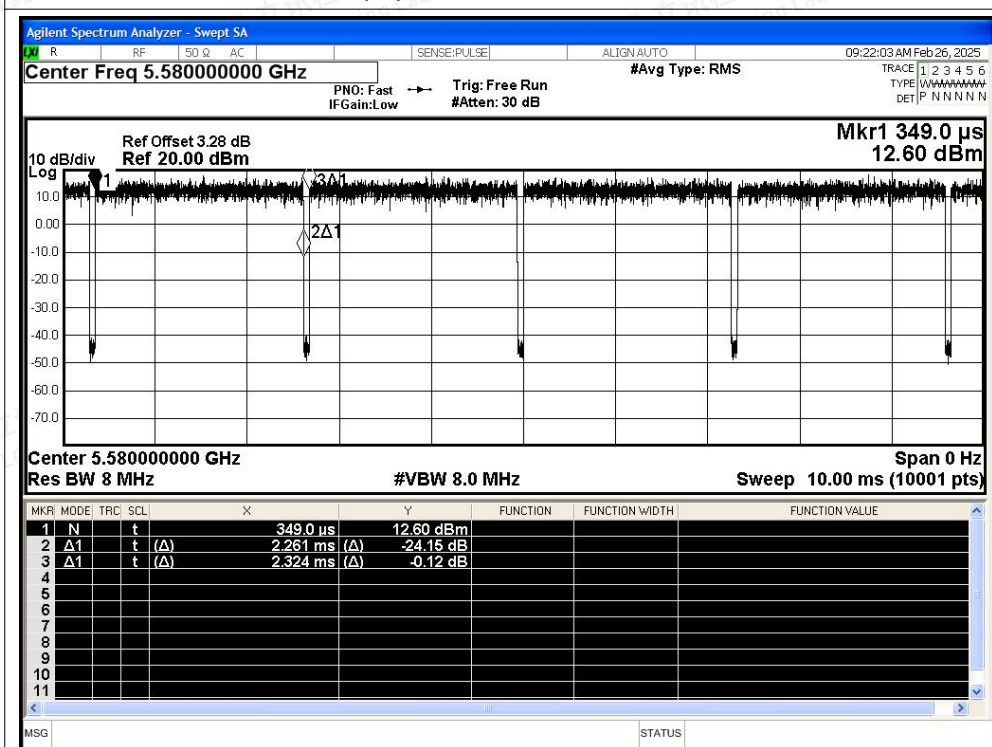
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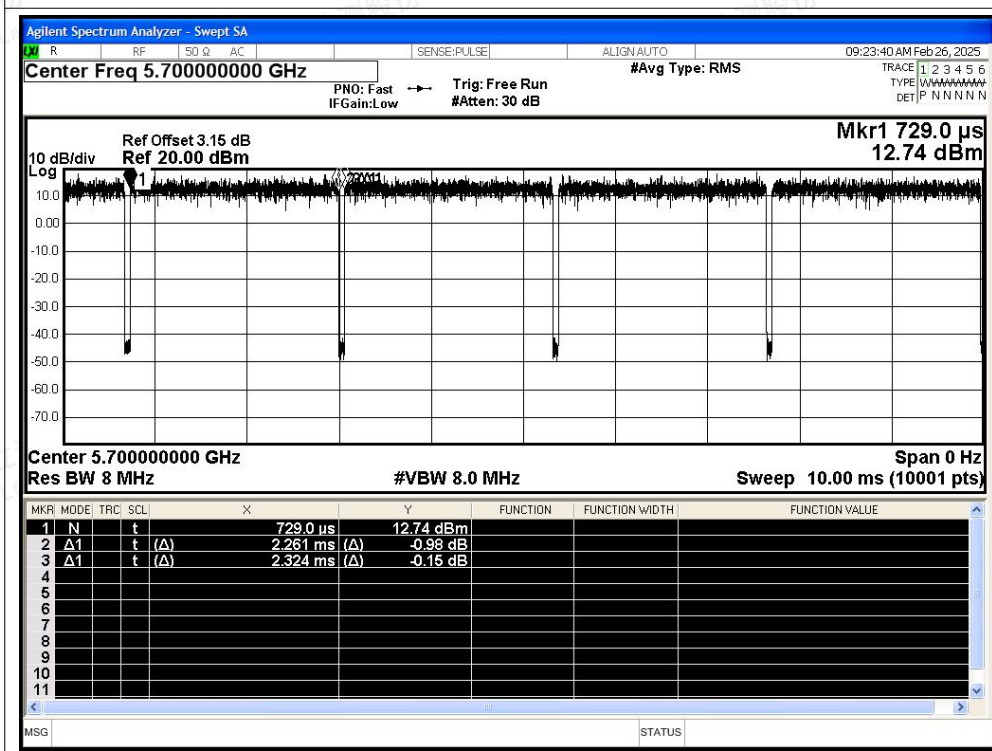
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## Duty Cycle NVNT n20 5580MHz Ant1



## Duty Cycle NVNT n20 5700MHz Ant1



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