

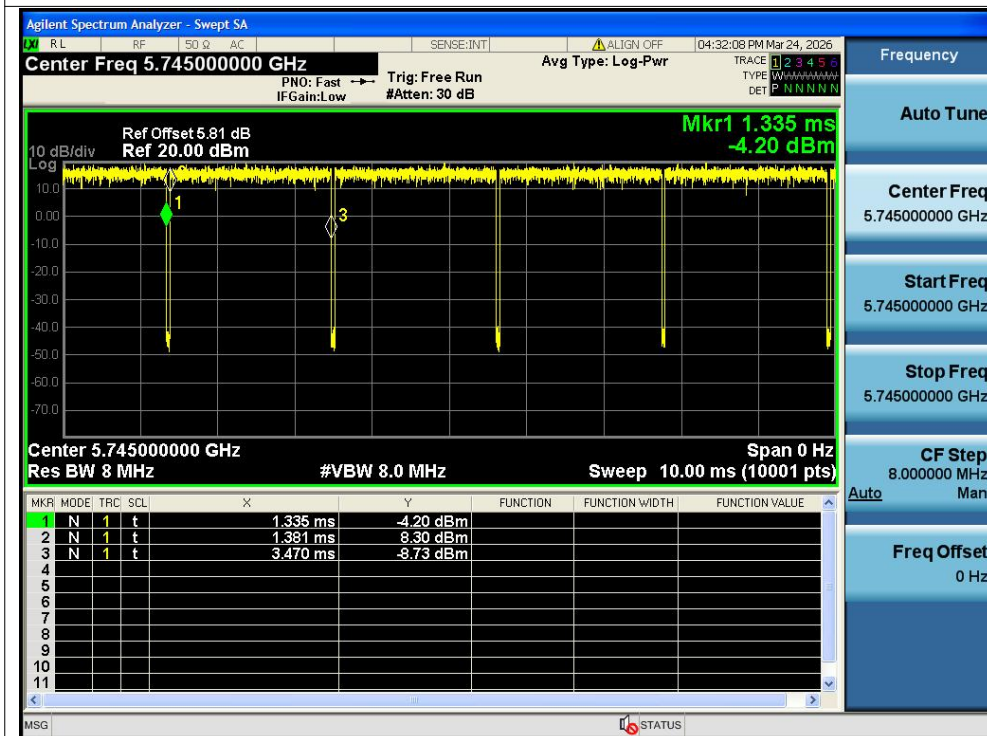
## Appendix G\_5.8G WIFI

### Duty Cycle

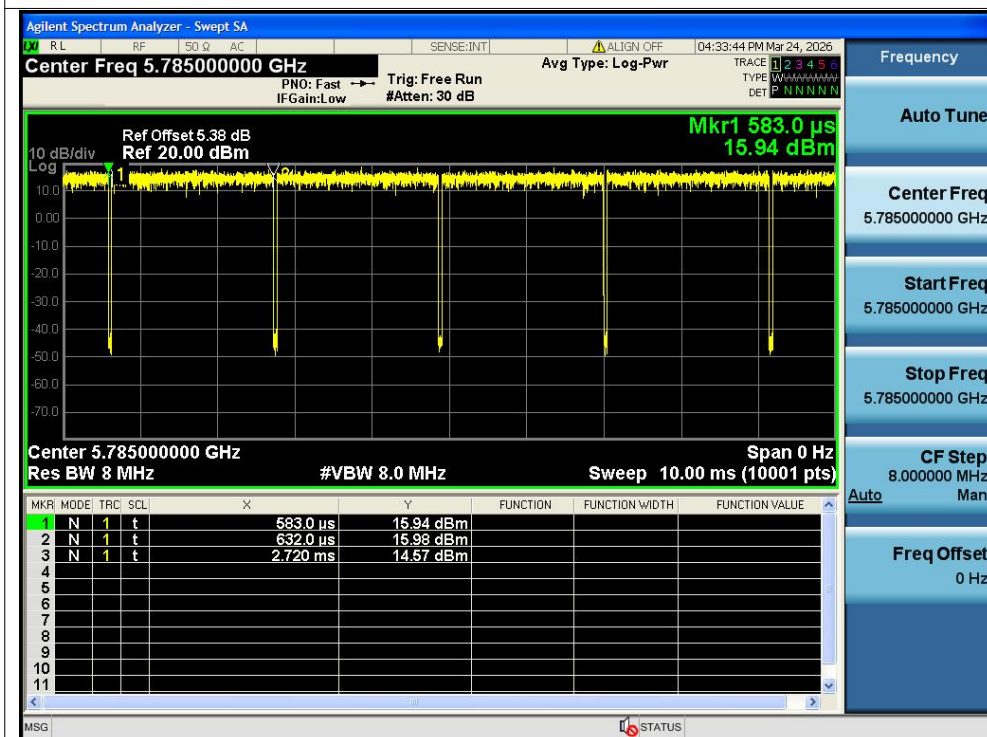
| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|------|-----------------|---------|----------------|------------------------|-----------|
| NVNT      | a    | 5745            | Ant1    | 97.85          | 0.09                   | 0.48      |
| NVNT      | a    | 5785            | Ant1    | 97.71          | 0.1                    | 0.48      |
| NVNT      | a    | 5825            | Ant1    | 97.8           | 0.1                    | 0.48      |

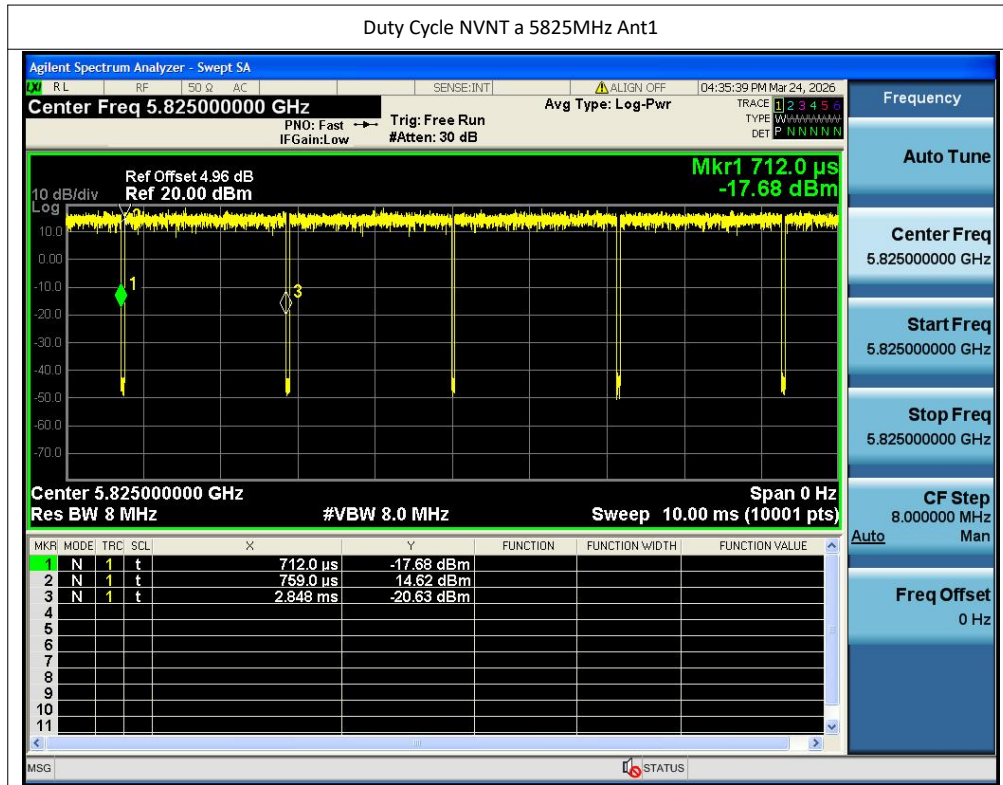
## Test Graphs

## Duty Cycle NVNT a 5745MHz Ant1



## Duty Cycle NVNT a 5785MHz Ant1



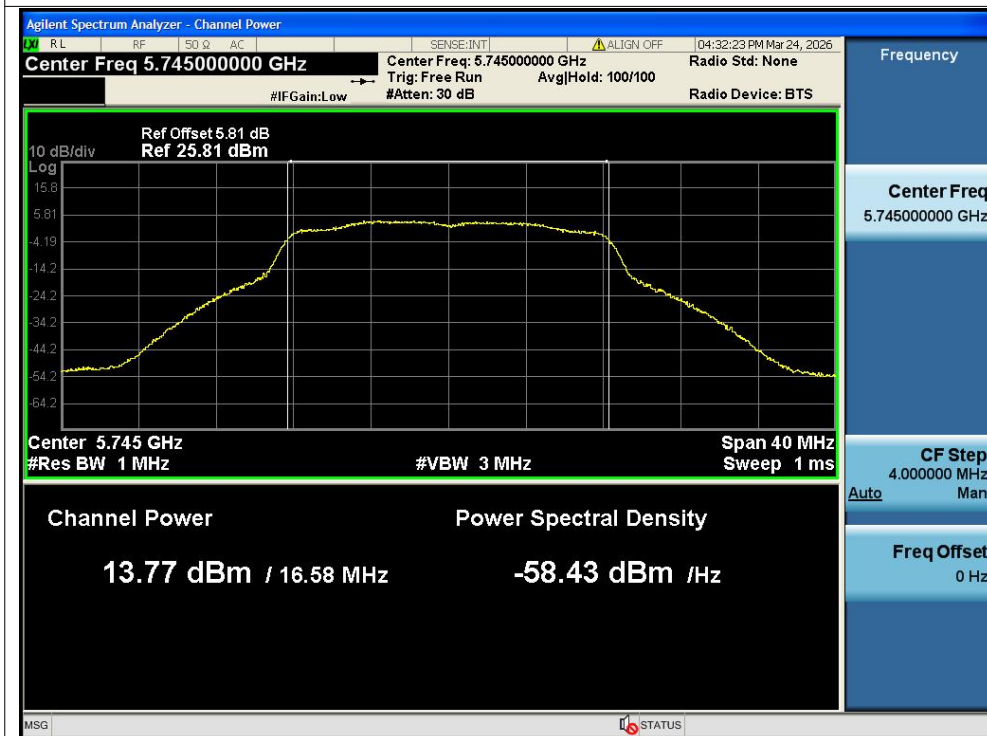


## Maximum Conducted Output Power

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Duty Factor (dB) | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|------------------|-------------------|-------------|---------|
| NVNT      | a    | 5745            | Ant1    | 13.77                 | 0.09             | 13.86             | 30          | Pass    |
| NVNT      | a    | 5785            | Ant1    | 12.75                 | 0.1              | 12.85             | 30          | Pass    |
| NVNT      | a    | 5825            | Ant1    | 12.61                 | 0.1              | 12.71             | 30          | Pass    |

## Test Graphs

Power NVNT a 5745MHz Ant1



Power NVNT a 5785MHz Ant1





## -6dB Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | a    | 5745            | Ant1    | 15.41                 | 0.5                         | Pass    |
| NVNT      | a    | 5785            | Ant1    | 13.86                 | 0.5                         | Pass    |
| NVNT      | a    | 5825            | Ant1    | 13.8                  | 0.5                         | Pass    |

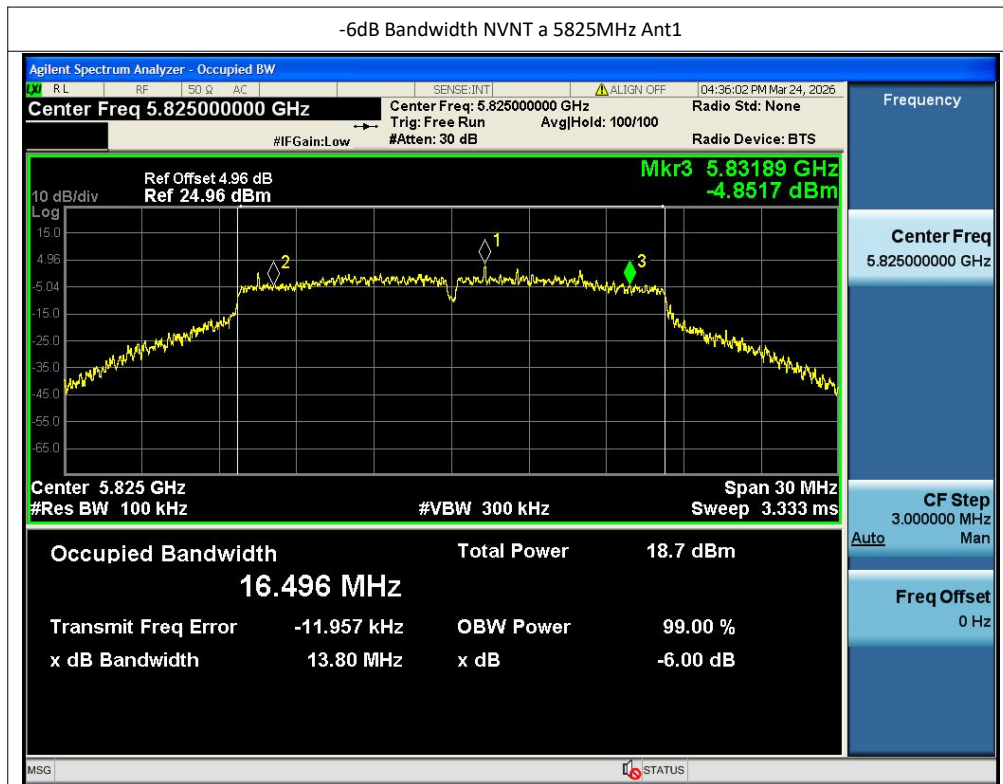
## Test Graphs

-6dB Bandwidth NVNT a 5745MHz Ant1



-6dB Bandwidth NVNT a 5785MHz Ant1





## Occupied Channel Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|-----------|------|-----------------|---------|---------------|
| NVNT      | a    | 5745            | Ant1    | 16.576        |
| NVNT      | a    | 5785            | Ant1    | 16.652        |
| NVNT      | a    | 5825            | Ant1    | 16.612        |

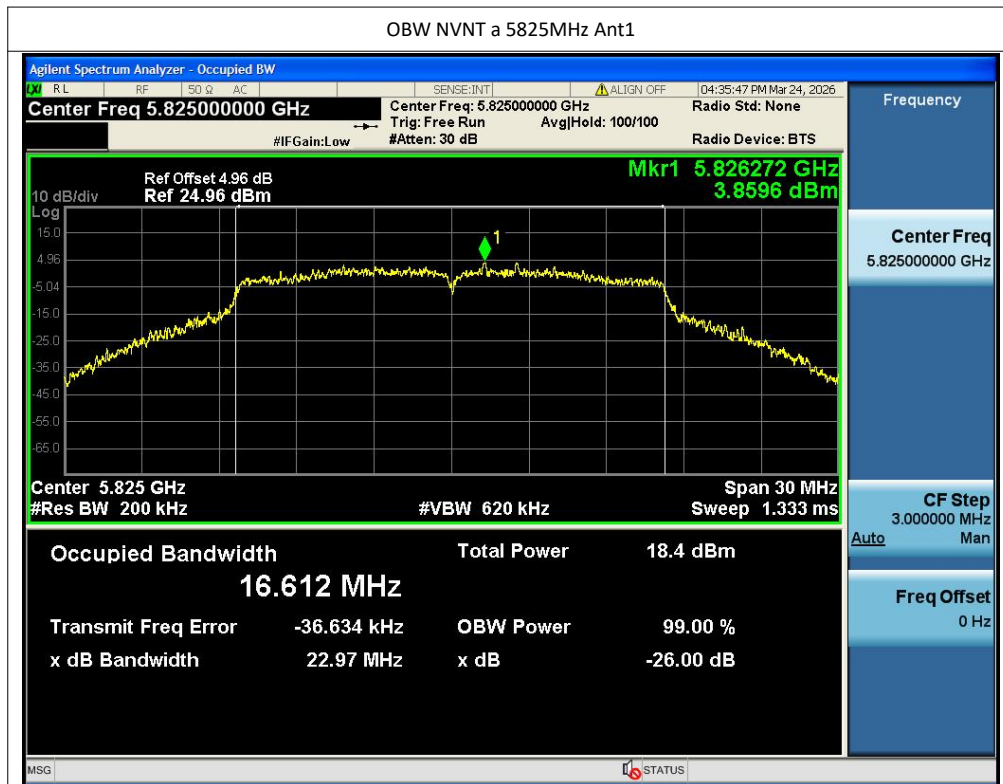
## Test Graphs

OBW NVNT a 5745MHz Ant1



OBW NVNT a 5785MHz Ant1



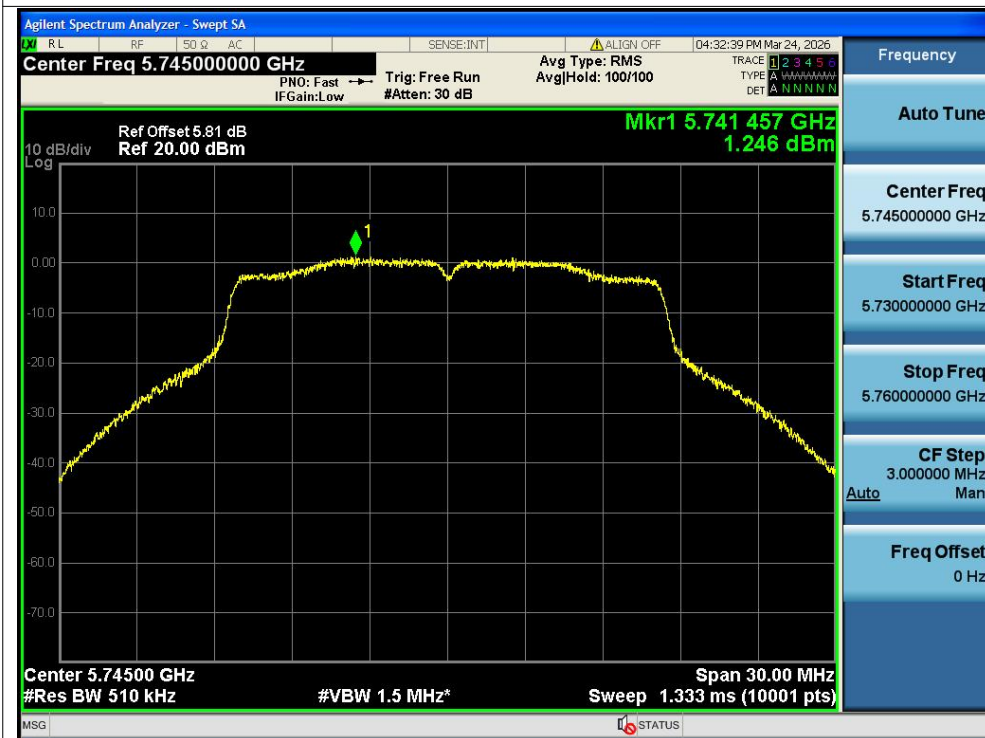


## Maximum Power Spectral Density Level

| Condition | Mode | Frequency<br>(MHz) | Antenna | Conducted PSD<br>(dBm/510kHz) | Duty Factor<br>(dB) | Total PSD<br>(dBm/510kHz) | Limit<br>(dBm/500kHz) | Verdict |
|-----------|------|--------------------|---------|-------------------------------|---------------------|---------------------------|-----------------------|---------|
| NVNT      | a    | 5745               | Ant1    | 1.25                          | 0.09                | 1.34                      | 30                    | Pass    |
| NVNT      | a    | 5785               | Ant1    | 0.07                          | 0.1                 | 0.17                      | 30                    | Pass    |
| NVNT      | a    | 5825               | Ant1    | -0.05                         | 0.1                 | 0.05                      | 30                    | Pass    |

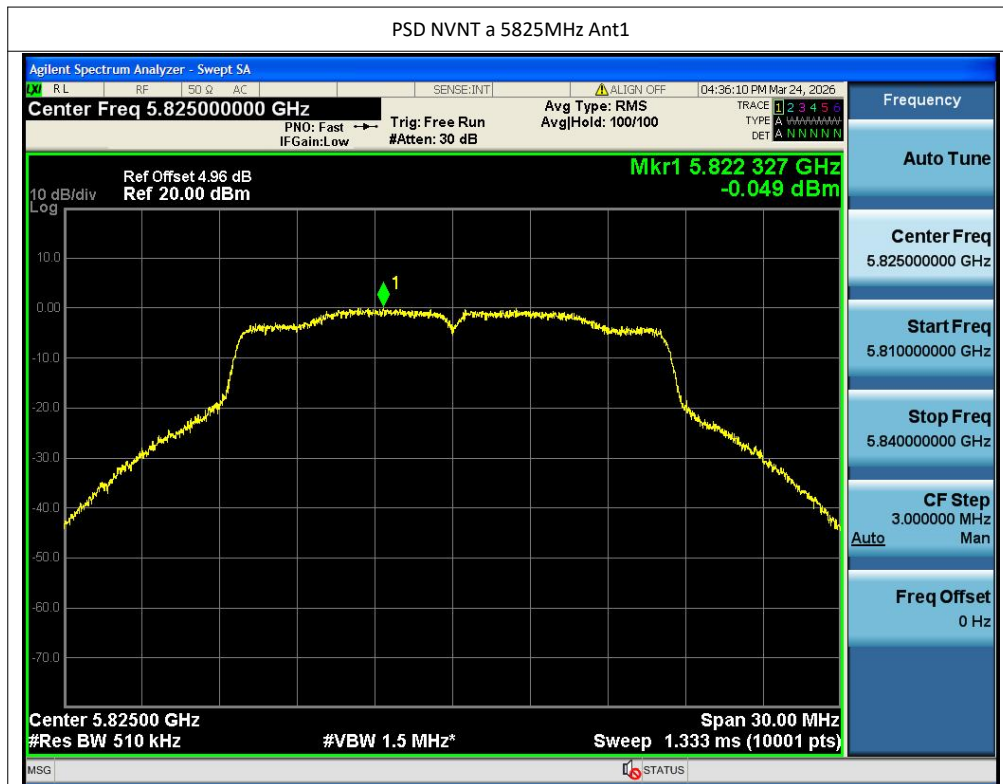
## Test Graphs

PSD NVNT a 5745MHz Ant1



PSD NVNT a 5785MHz Ant1



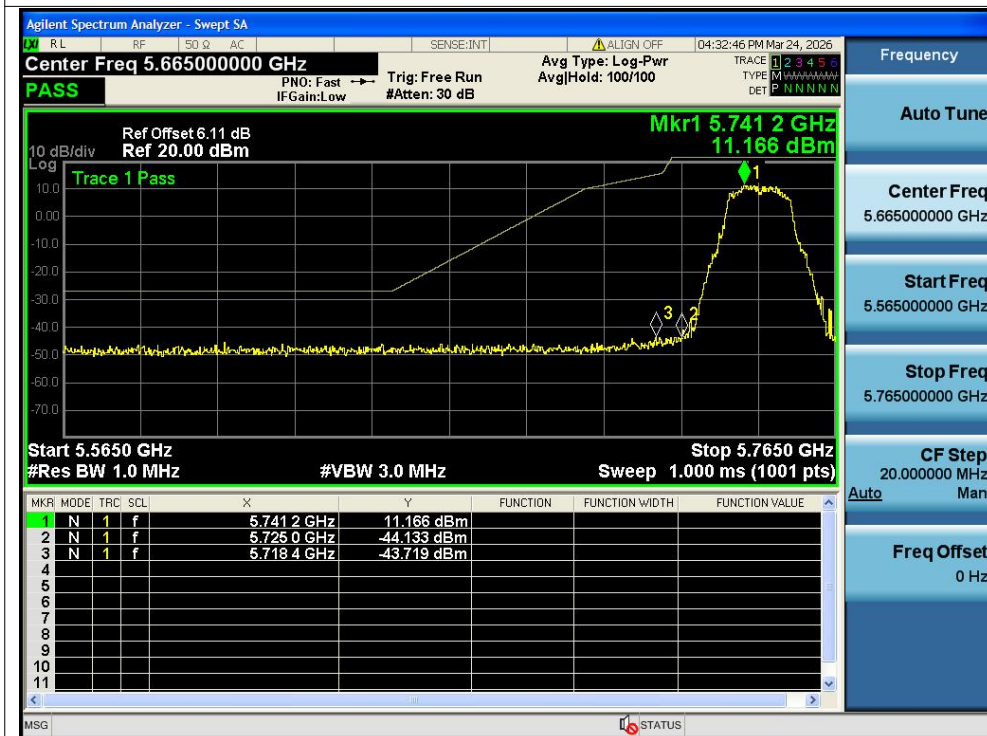


## Band Edge

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------|---------|
| NVNT      | a    | 5745            | Ant1    | -43.71          | Pass    |
| NVNT      | a    | 5825            | Ant1    | -45.99          | Pass    |

## Test Graphs

## Band Edge NVNT a 5745MHz Low Ant1



## Band Edge NVNT a 5825MHz High Ant1

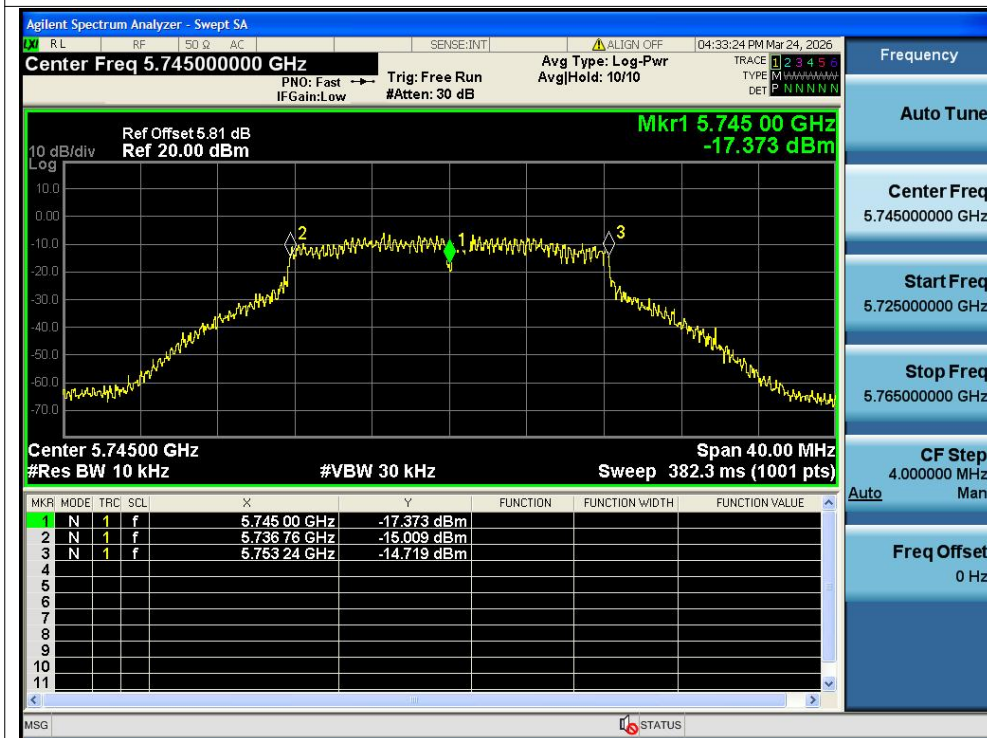


## Frequency Stability

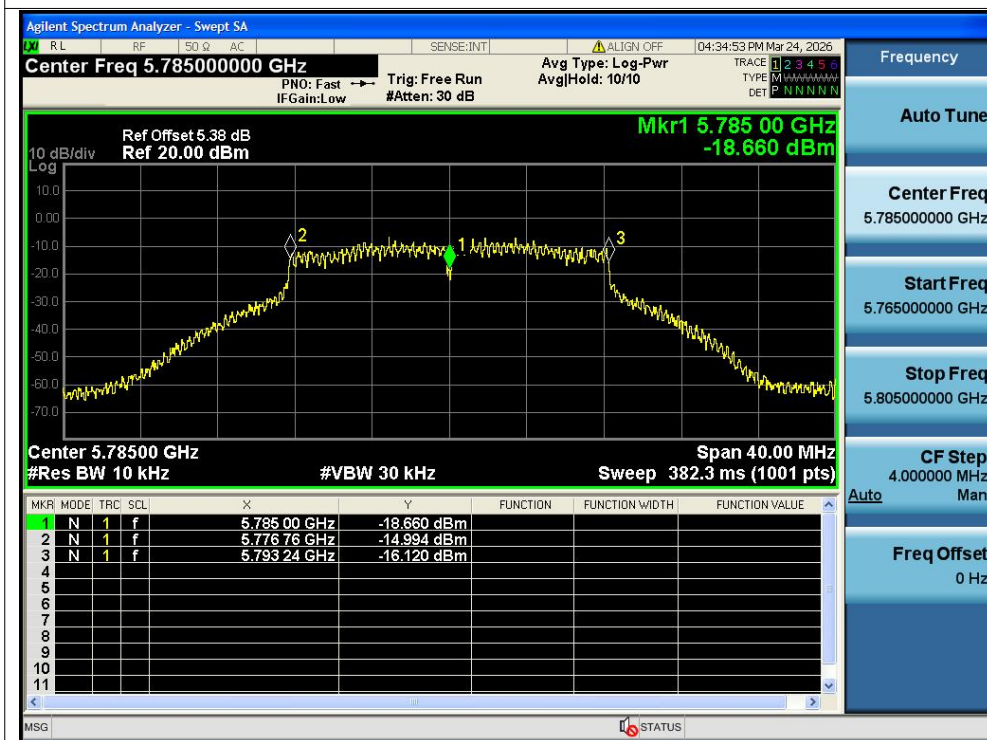
| Condition | Mode | Time<br>(mins) | Frequency<br>(MHz) | Antenna | Measured Frequency<br>(MHz) | Frequency Error<br>(Hz) | Deviation<br>(ppm) | Limit<br>(ppm) | Verdict |
|-----------|------|----------------|--------------------|---------|-----------------------------|-------------------------|--------------------|----------------|---------|
| NVNT      | a    | 0              | 5745               | Ant1    | 5745                        | 0                       | 0                  | 25             | Pass    |
| NVNT      | a    | 0              | 5785               | Ant1    | 5785                        | 0                       | 0                  | 25             | Pass    |
| NVNT      | a    | 0              | 5825               | Ant1    | 5824.98                     | -20000                  | -3.43              | 25             | Pass    |

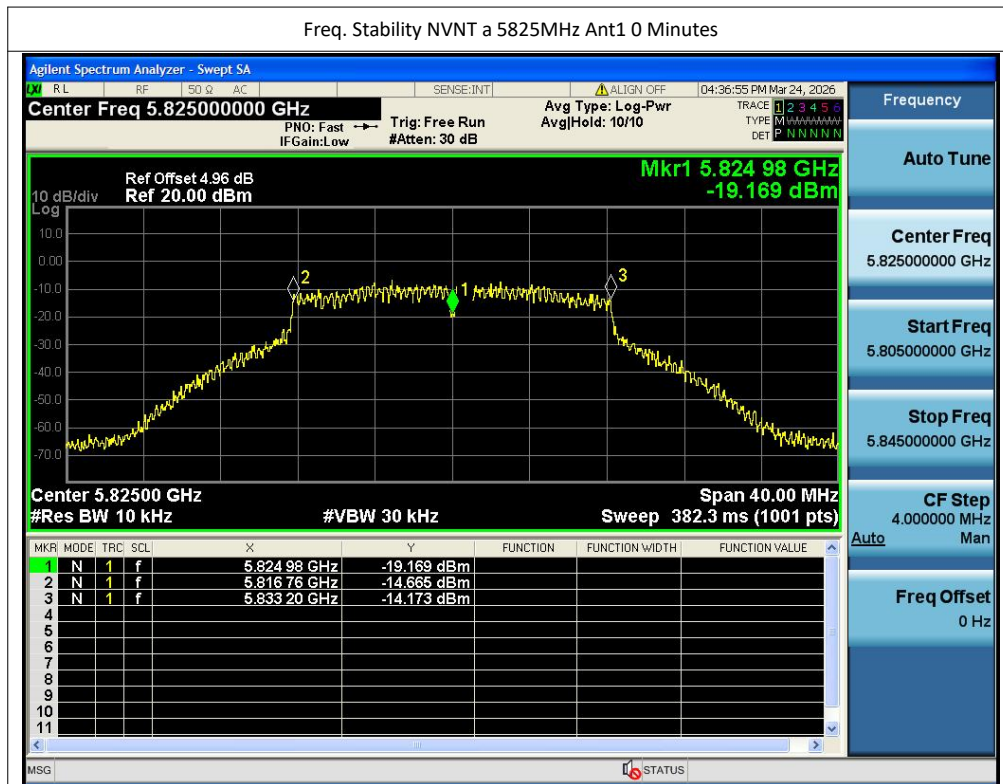
## Test Graphs

Freq. Stability NVNT a 5745MHz Ant1 0 Minutes



Freq. Stability NVNT a 5785MHz Ant1 0 Minutes



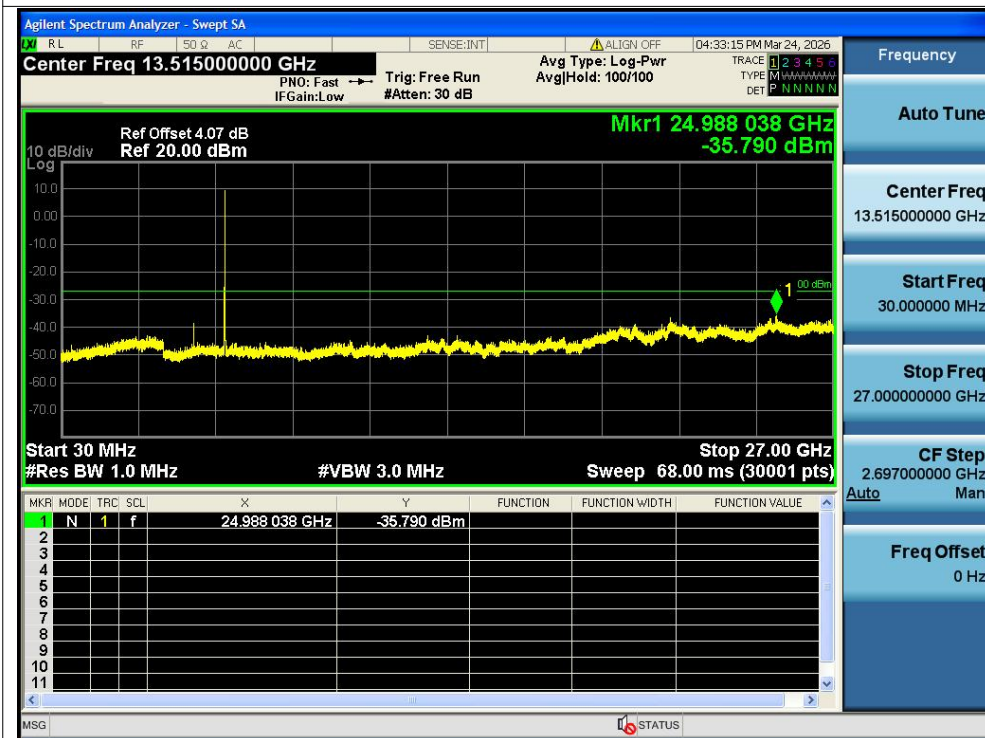


## Conducted RF Spurious Emission

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | a    | 5745            | Ant1    | -35.78          | -27         | Pass    |
| NVNT      | a    | 5785            | Ant1    | -36.5           | -27         | Pass    |
| NVNT      | a    | 5825            | Ant1    | -36.68          | -27         | Pass    |

## Test Graphs

## Tx. Spurious NVNT a 5745MHz Ant1 Emission



## Tx. Spurious NVNT a 5785MHz Ant1 Emission

