

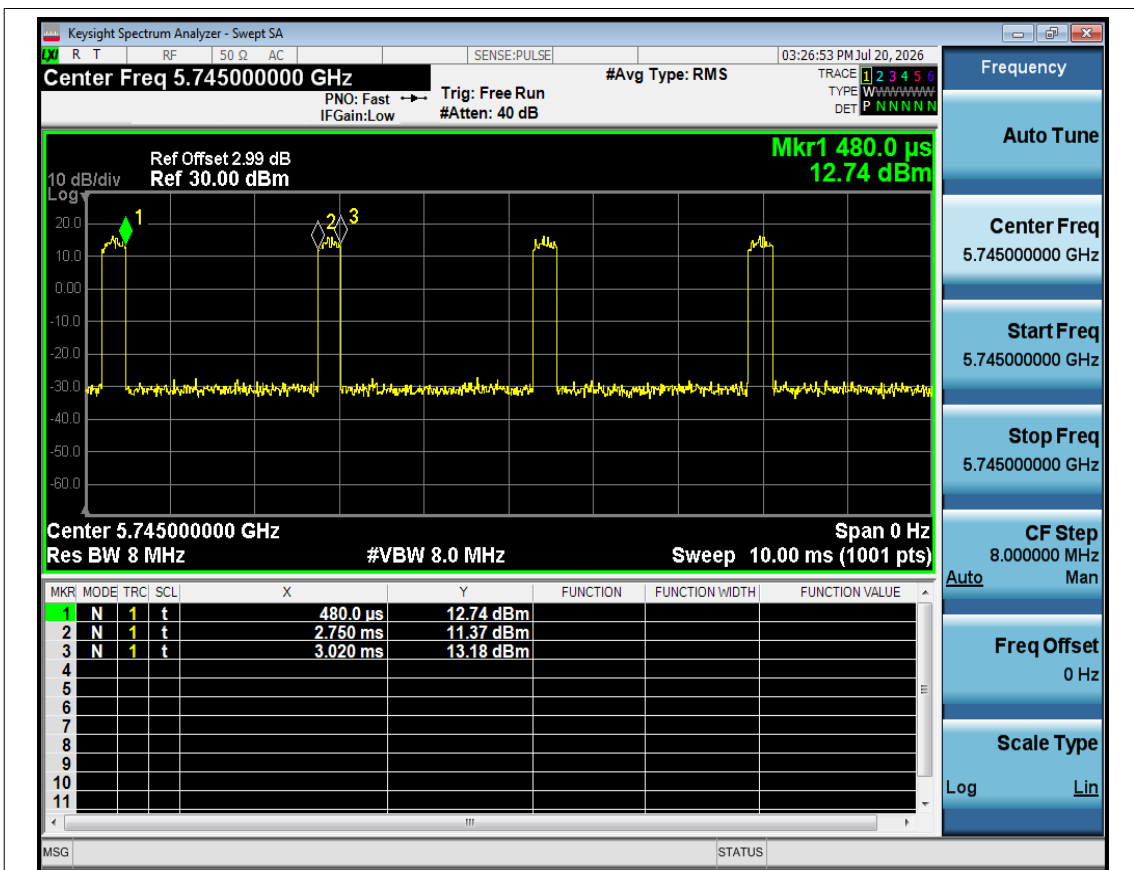
# RF Test Data

## FCC ID:2BXFV-F19

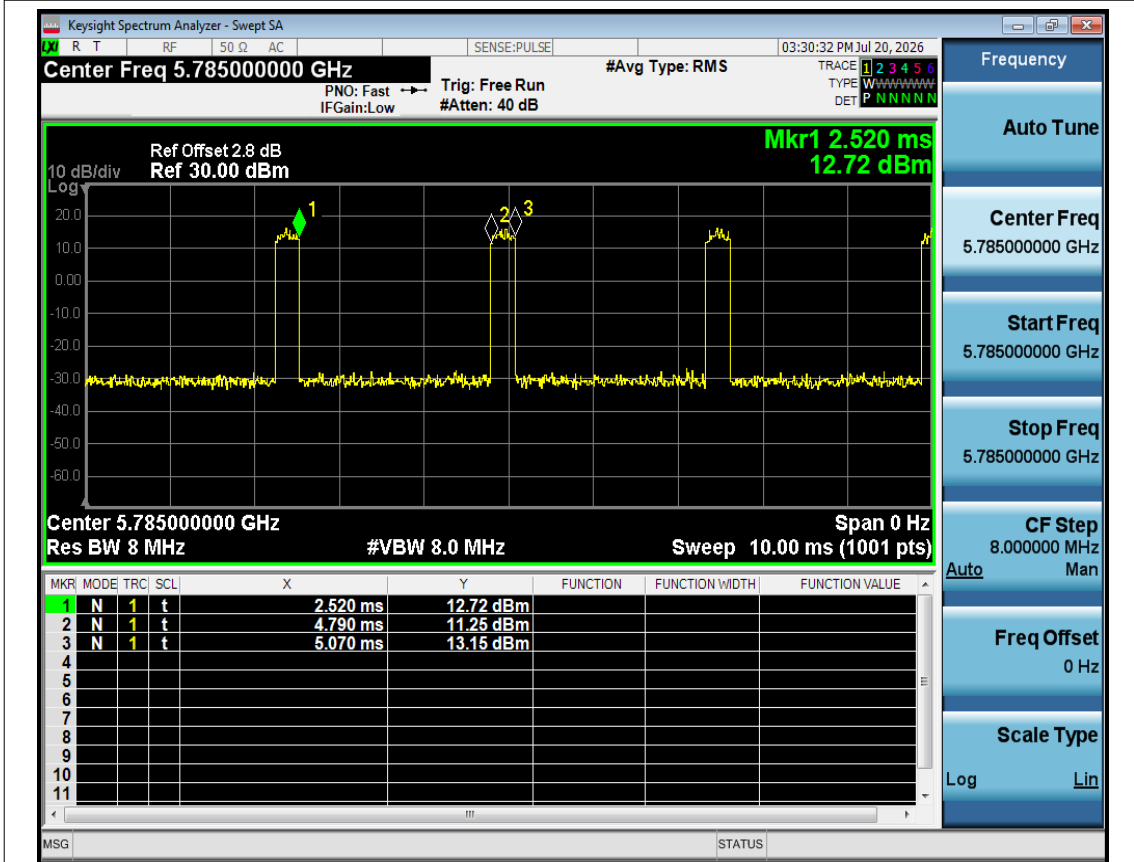
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## Duty Cycle

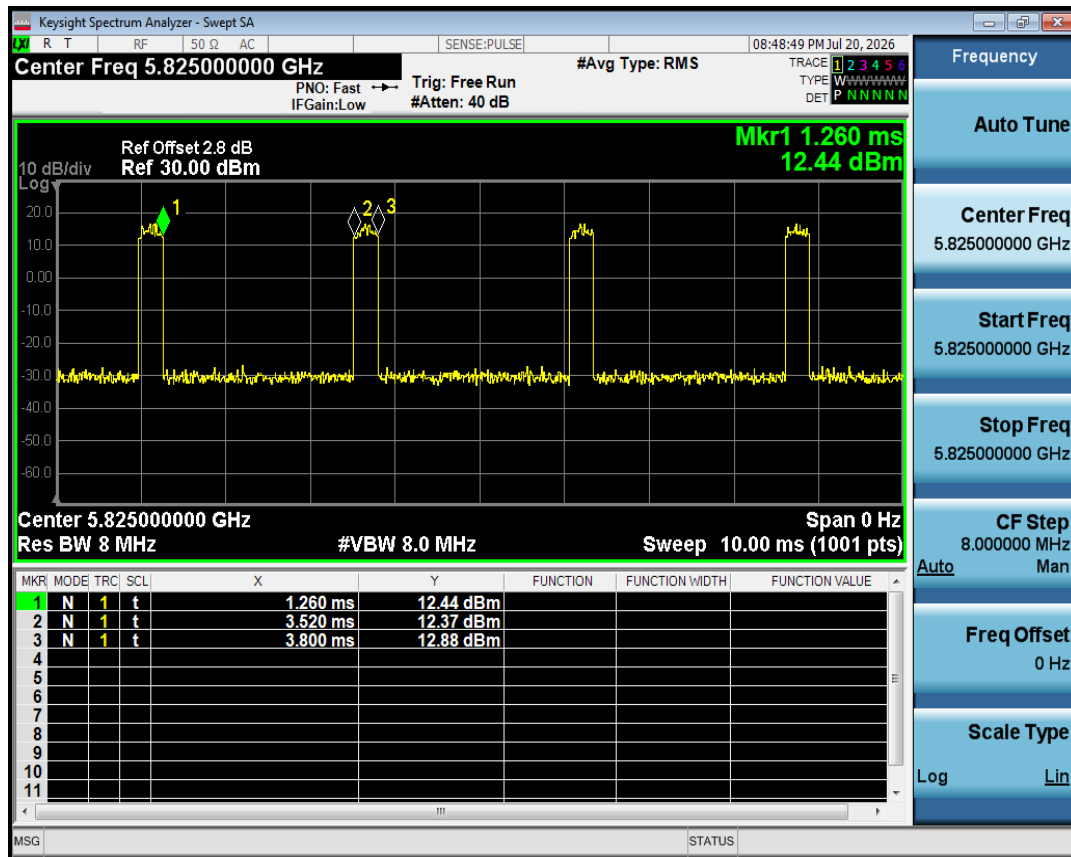
| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|------|-----------------|---------|----------------|------------------------|-----------|
| NVNT      | a    | 5745            | Ant1    | 10.63          | 9.73                   | 3.7       |
| NVNT      | a    | 5785            | Ant1    | 10.98          | 9.59                   | 3.57      |
| NVNT      | a    | 5825            | Ant1    | 11.02          | 9.58                   | 3.57      |
| NVNT      | n20  | 5745            | Ant1    | 11.37          | 9.44                   | 3.45      |
| NVNT      | n20  | 5785            | Ant1    | 11.76          | 9.29                   | 3.33      |
| NVNT      | n20  | 5825            | Ant1    | 11.72          | 9.31                   | 3.33      |
| NVNT      | n40  | 5755            | Ant1    | 10.98          | 9.59                   | 3.45      |
| NVNT      | n40  | 5795            | Ant1    | 10.98          | 9.59                   | 3.45      |
| NVNT      | ac20 | 5745            | Ant1    | 11.72          | 9.31                   | 3.33      |
| NVNT      | ac20 | 5785            | Ant1    | 9.77           | 10.1                   | 3.85      |
| NVNT      | ac20 | 5825            | Ant1    | 10.11          | 9.95                   | 3.7       |



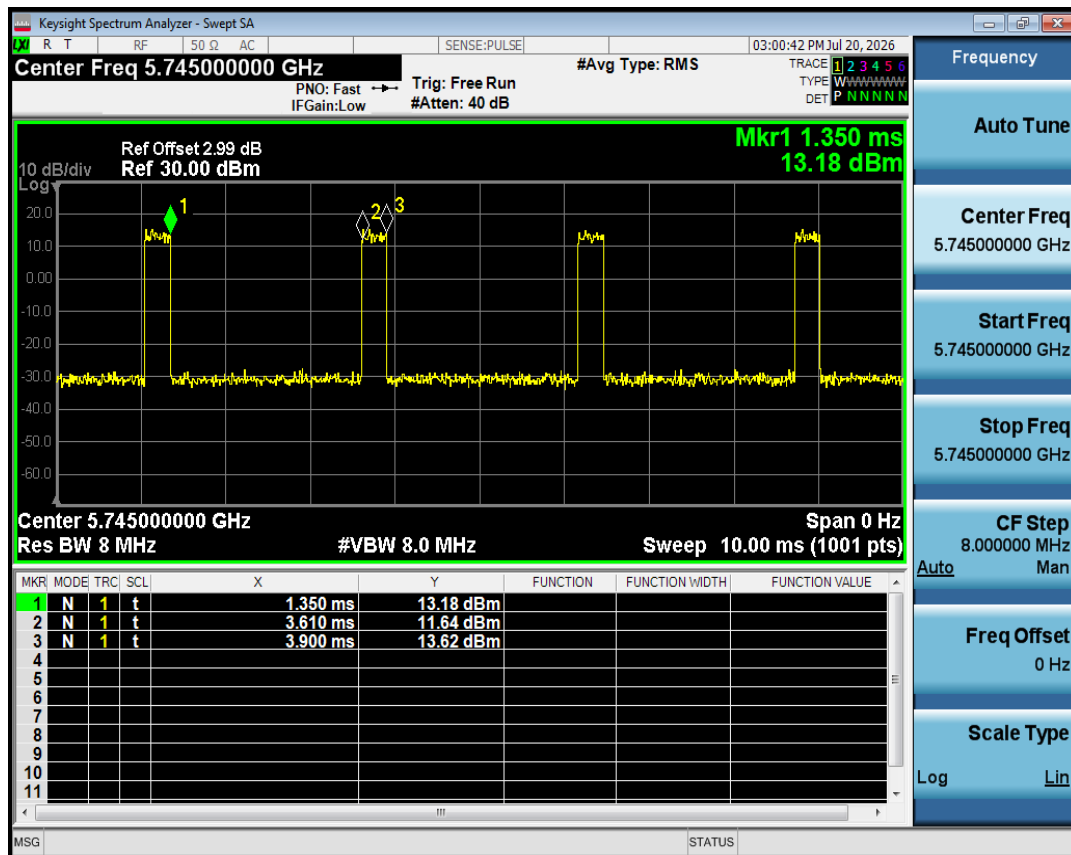
Duty Cycle NVNT a 5745MHz Ant1



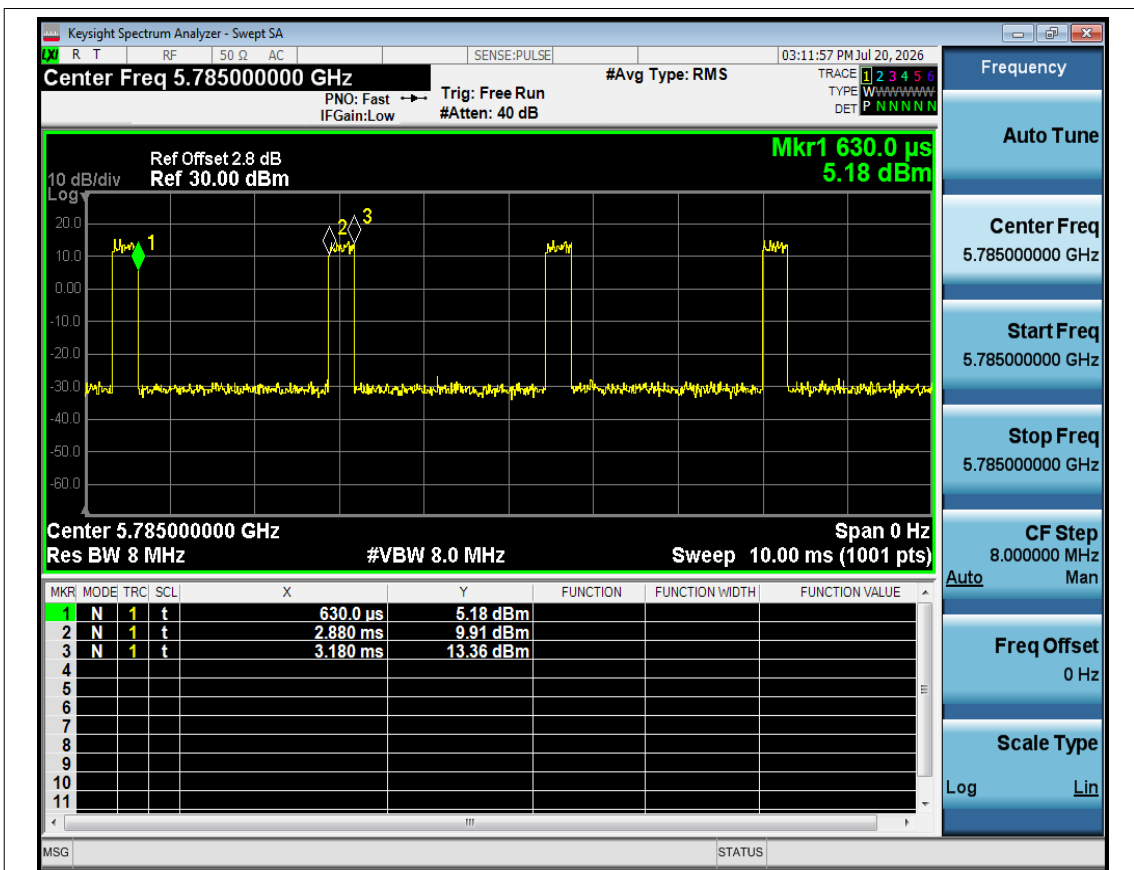
Duty Cycle NVNT a 5785MHz Ant1



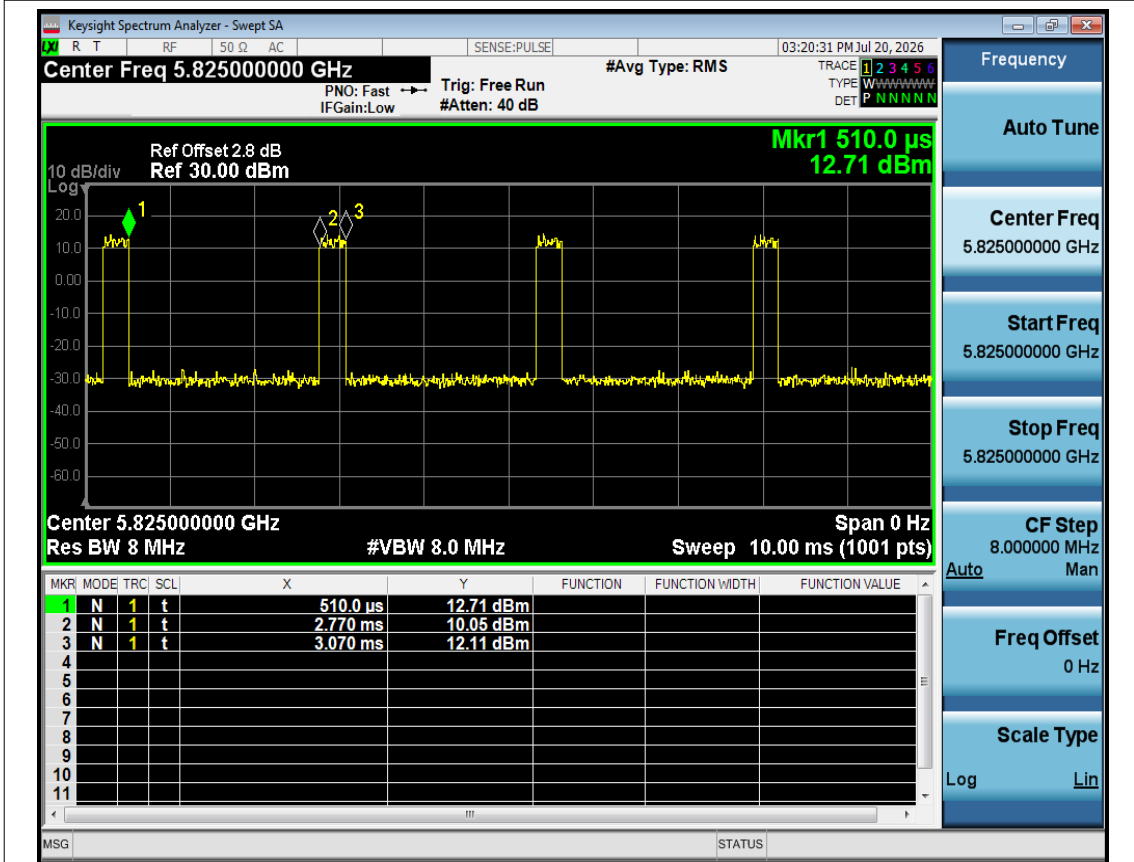
Duty Cycle NVNT a 5825MHz Ant1



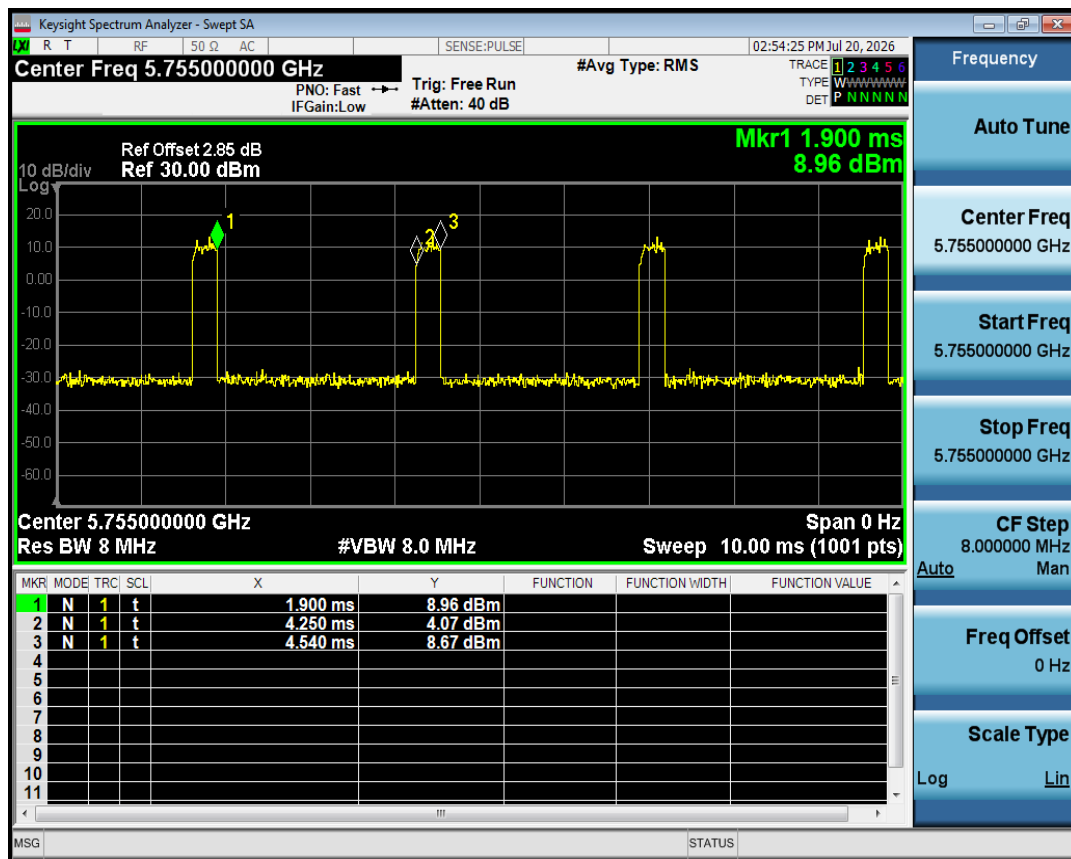
Duty Cycle NVNT n20 5745MHz Ant1



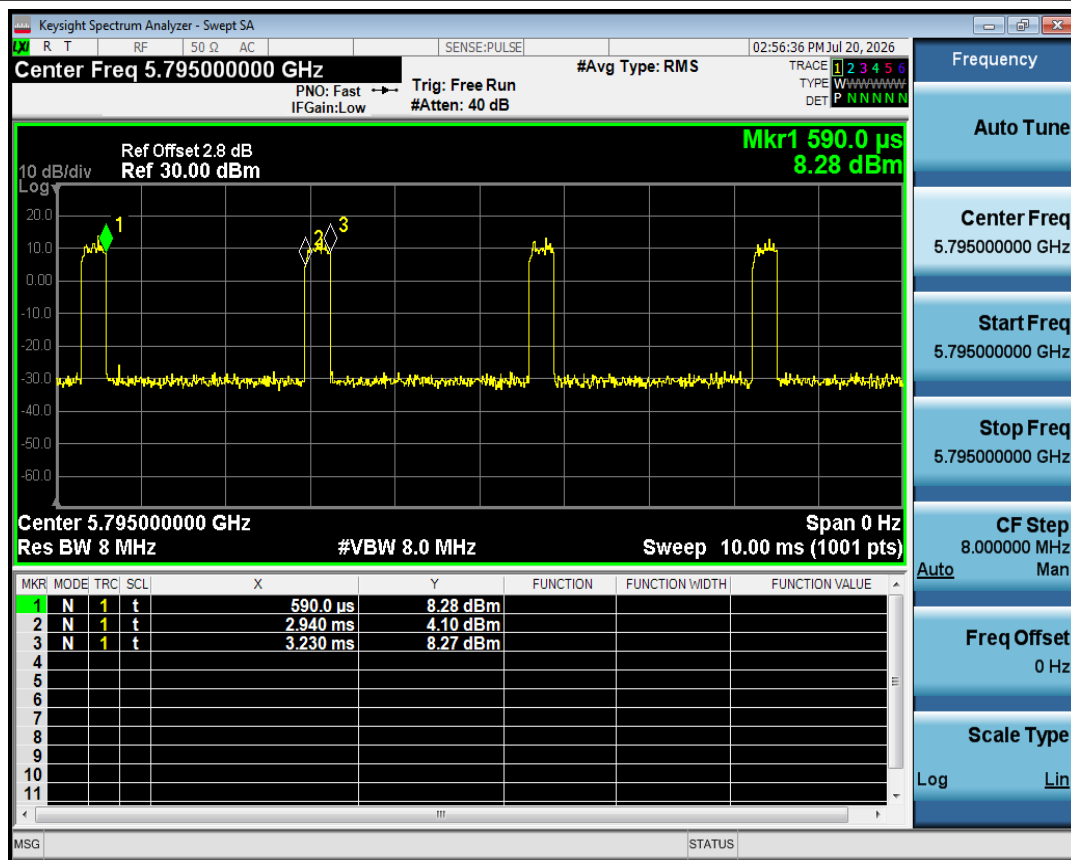
Duty Cycle NVNT n20 5785MHz Ant1



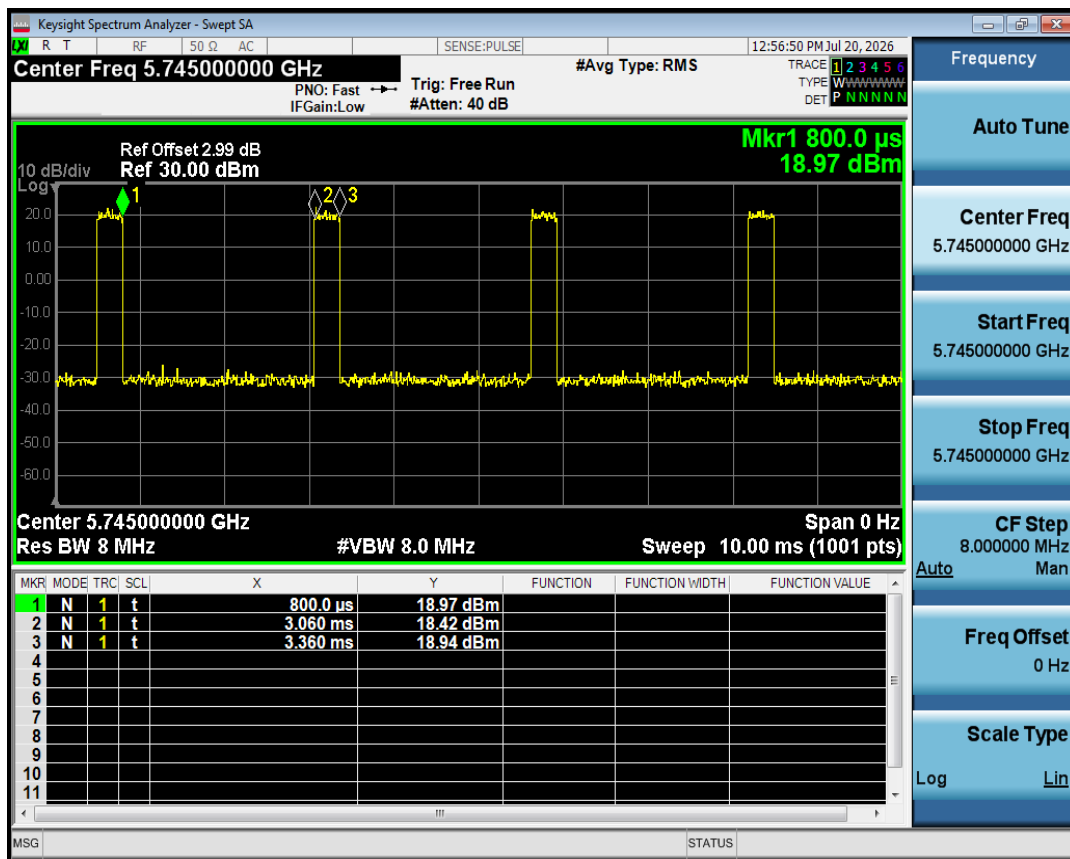
Duty Cycle NVNT n20 5825MHz Ant1



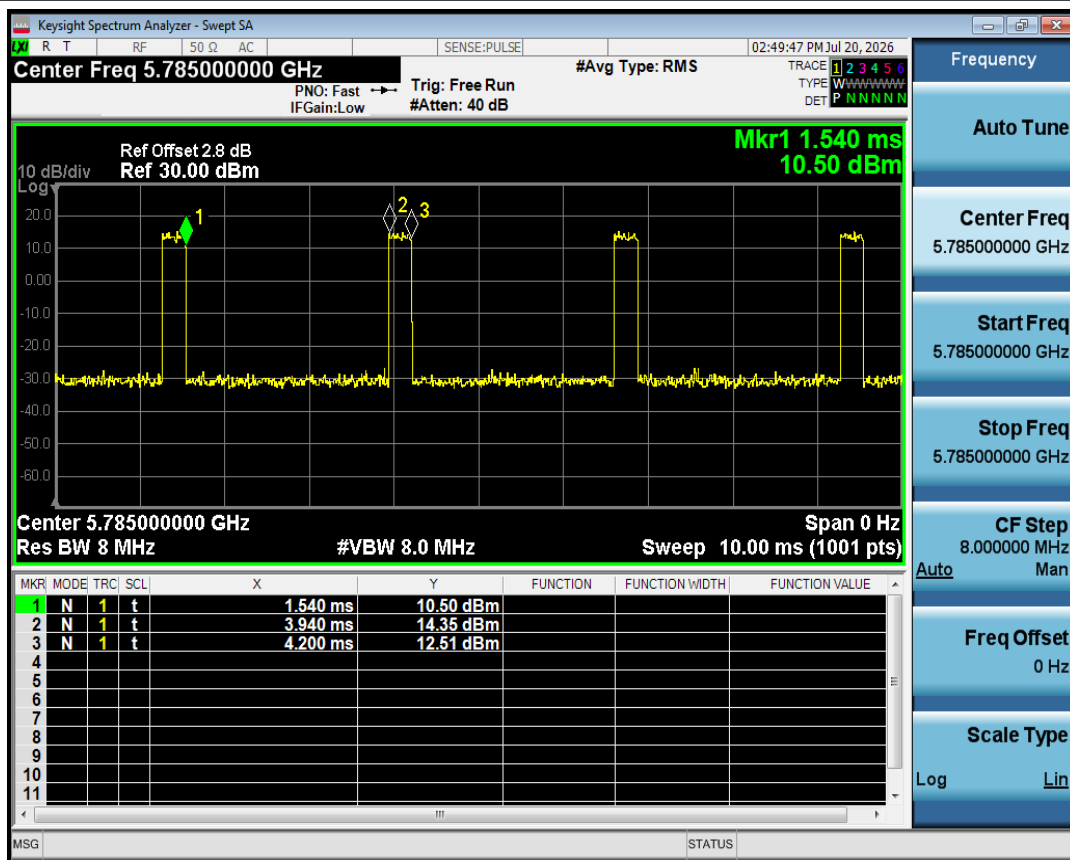
Duty Cycle NVNT n40 5755MHz Ant1



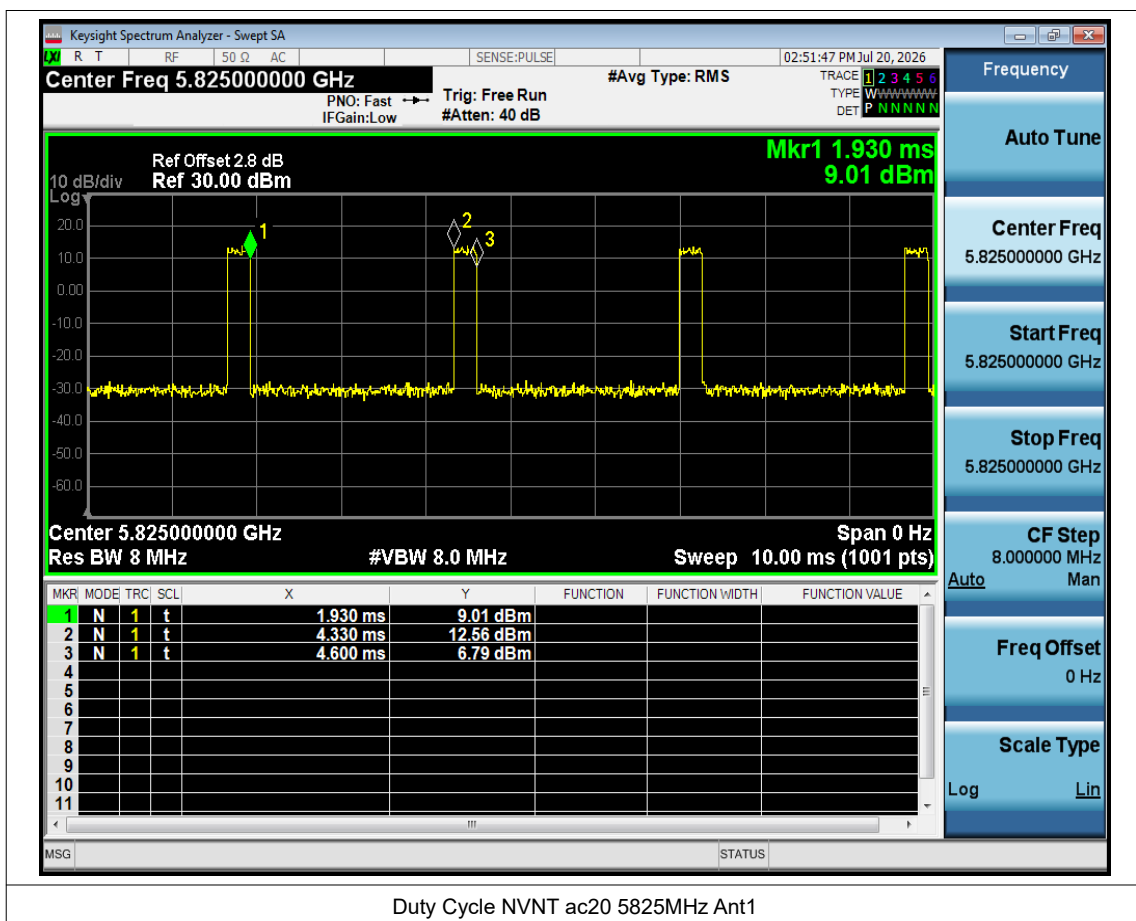
Duty Cycle NVNT n40 5795MHz Ant1



Duty Cycle NVNT ac20 5745MHz Ant1



Duty Cycle NVNT ac20 5785MHz Ant1

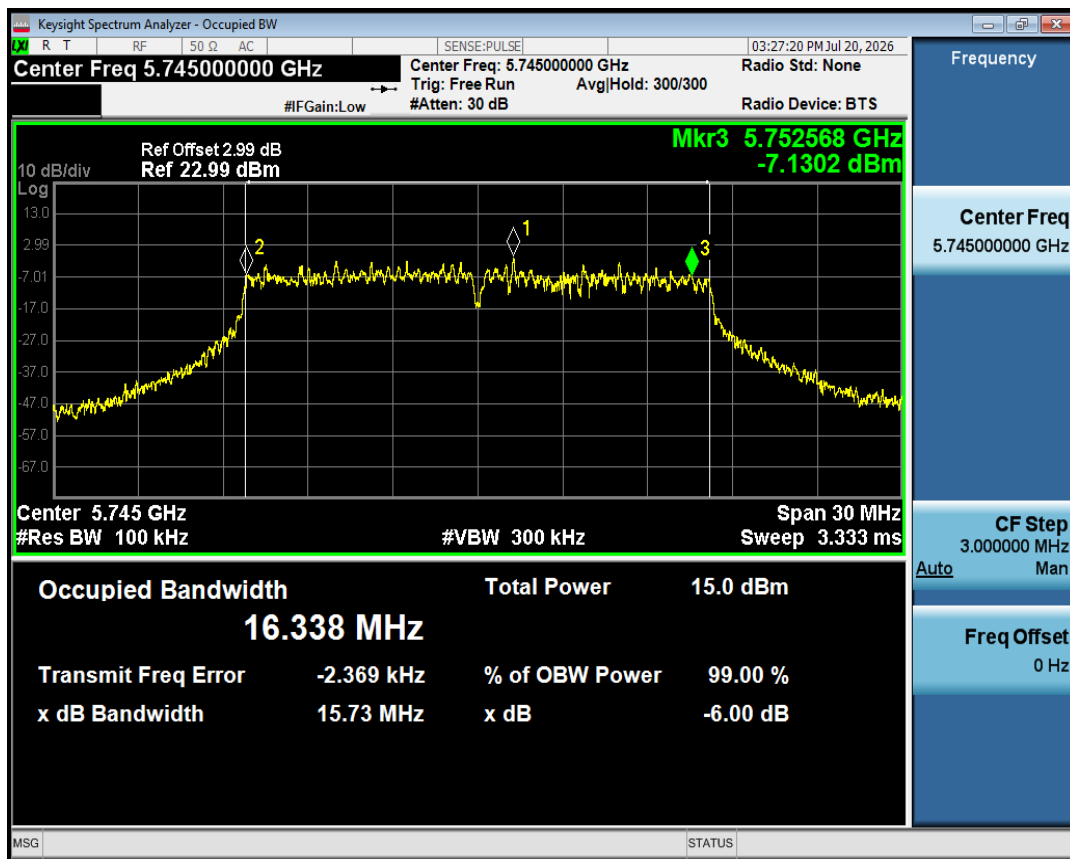


## Maximum Conducted Output Power

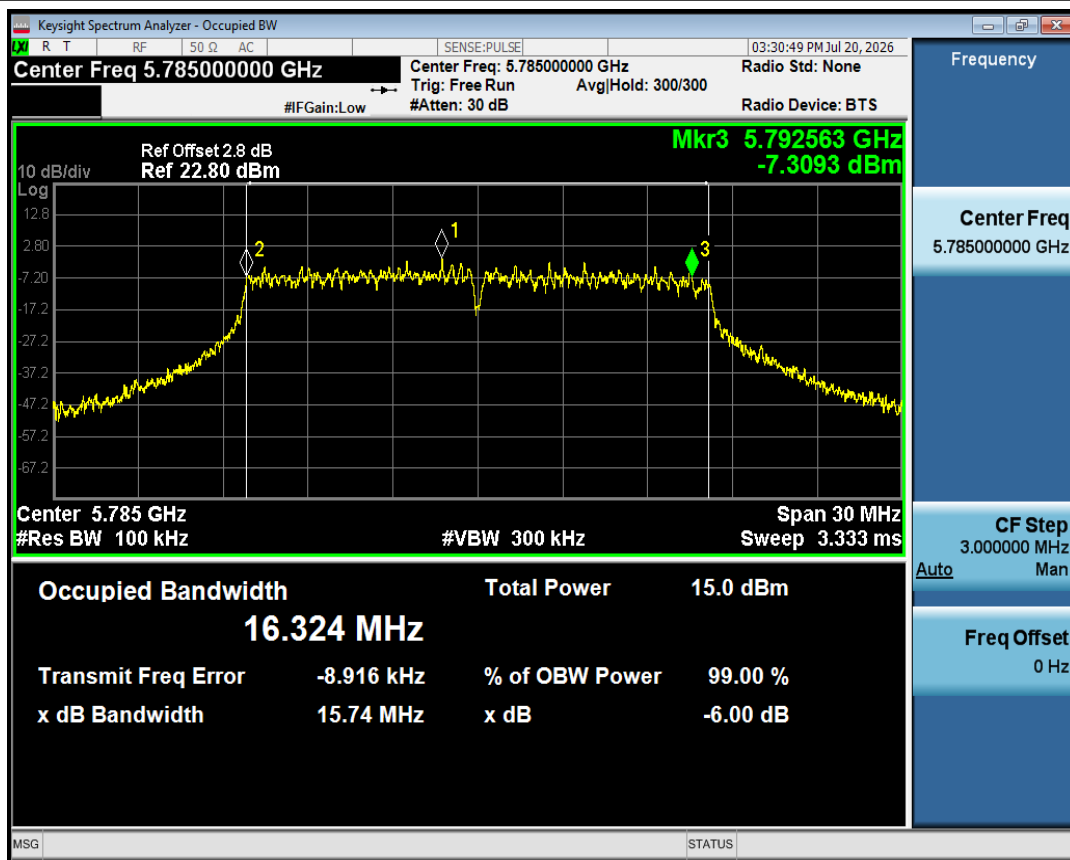
| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Conducted Power (W) | Limit Conducted(dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|---------------------|----------------------|---------|
| NVNT      | a    | 5745            | Ant1    | 9.57                  | 0.00906             | 30                   | Pass    |
| NVNT      | a    | 5785            | Ant1    | 9.73                  | 0.0094              | 30                   | Pass    |
| NVNT      | a    | 5825            | Ant1    | 10.64                 | 0.01159             | 30                   | Pass    |
| NVNT      | n20  | 5745            | Ant1    | 9.28                  | 0.00847             | 30                   | Pass    |
| NVNT      | n20  | 5785            | Ant1    | 9.55                  | 0.00902             | 30                   | Pass    |
| NVNT      | n20  | 5825            | Ant1    | 8.99                  | 0.00793             | 30                   | Pass    |
| NVNT      | n40  | 5755            | Ant1    | 9.15                  | 0.00822             | 30                   | Pass    |
| NVNT      | n40  | 5795            | Ant1    | 9.29                  | 0.00849             | 30                   | Pass    |
| NVNT      | ac20 | 5745            | Ant1    | 9.57                  | 0.00906             | 30                   | Pass    |
| NVNT      | ac20 | 5785            | Ant1    | 9.57                  | 0.00906             | 30                   | Pass    |
| NVNT      | ac20 | 5825            | Ant1    | 9.12                  | 0.00817             | 30                   | Pass    |

## -6dB Bandwidth

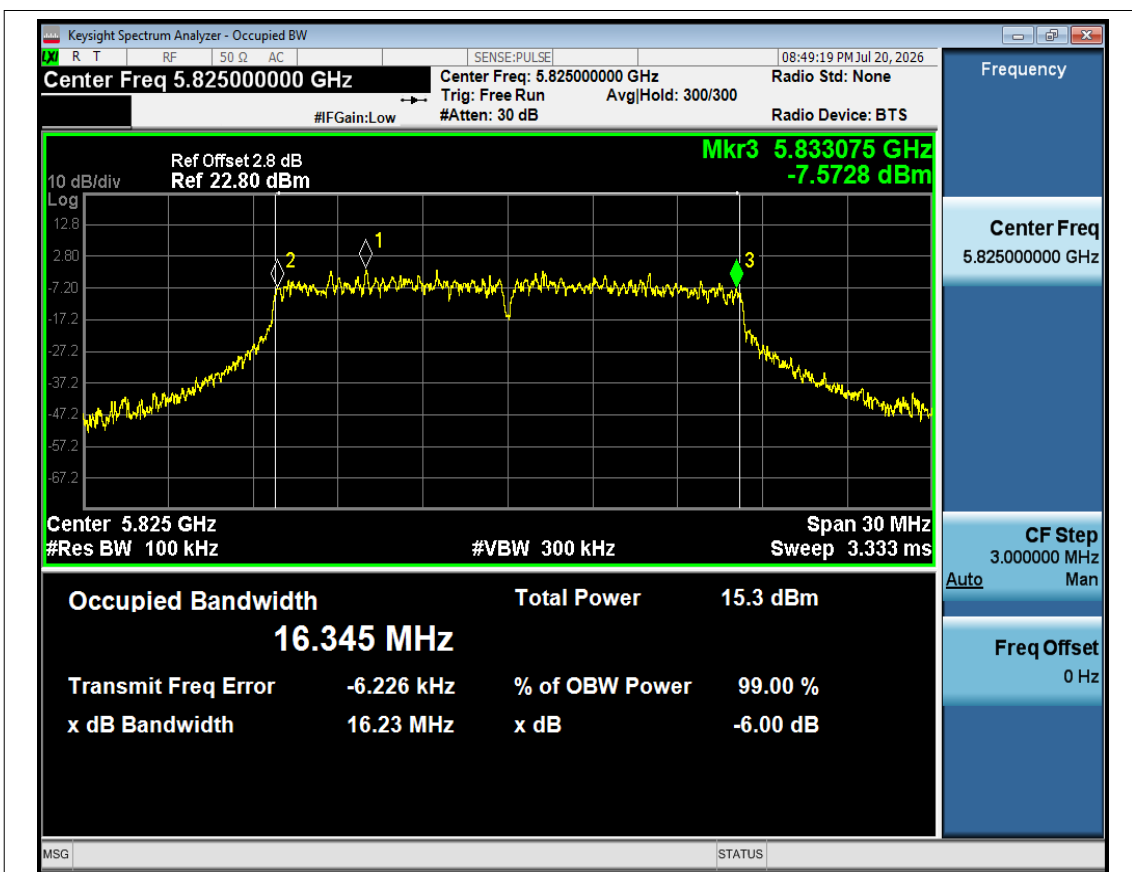
| Condition | Mode | Frequency<br>(MHz) | Antenna | -6 dB Bandwidth<br>(MHz) | Limit -6 dB Bandwidth<br>(MHz) | Verdict |
|-----------|------|--------------------|---------|--------------------------|--------------------------------|---------|
| NVNT      | a    | 5745               | Ant1    | 15.73                    | 0.5                            | Pass    |
| NVNT      | a    | 5785               | Ant1    | 15.74                    | 0.5                            | Pass    |
| NVNT      | a    | 5825               | Ant1    | 16.23                    | 0.5                            | Pass    |
| NVNT      | n20  | 5745               | Ant1    | 15.28                    | 0.5                            | Pass    |
| NVNT      | n20  | 5785               | Ant1    | 15.36                    | 0.5                            | Pass    |
| NVNT      | n20  | 5825               | Ant1    | 15.66                    | 0.5                            | Pass    |
| NVNT      | n40  | 5755               | Ant1    | 34.97                    | 0.5                            | Pass    |
| NVNT      | n40  | 5795               | Ant1    | 35.09                    | 0.5                            | Pass    |
| NVNT      | ac20 | 5745               | Ant1    | 15.06                    | 0.5                            | Pass    |
| NVNT      | ac20 | 5785               | Ant1    | 16.27                    | 0.5                            | Pass    |
| NVNT      | ac20 | 5825               | Ant1    | 15.06                    | 0.5                            | Pass    |



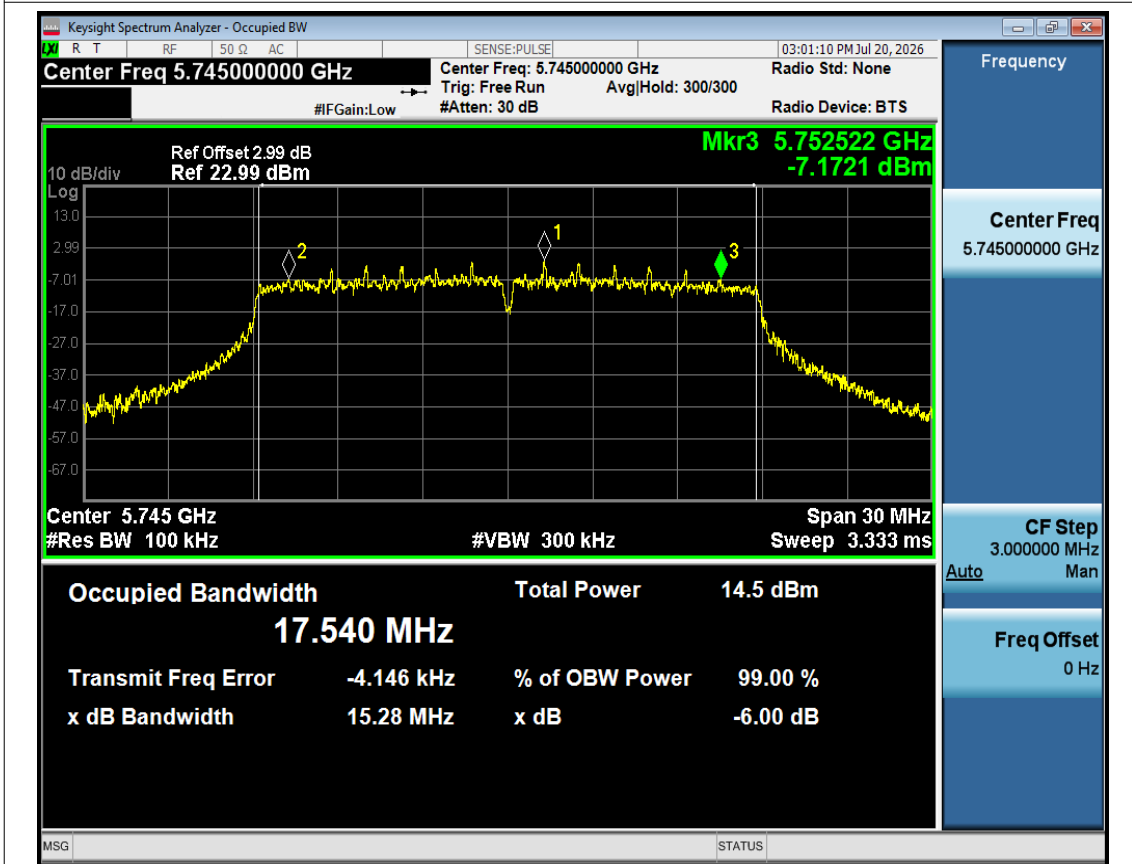
-6dB Bandwidth NVNT a 5745MHz Ant1



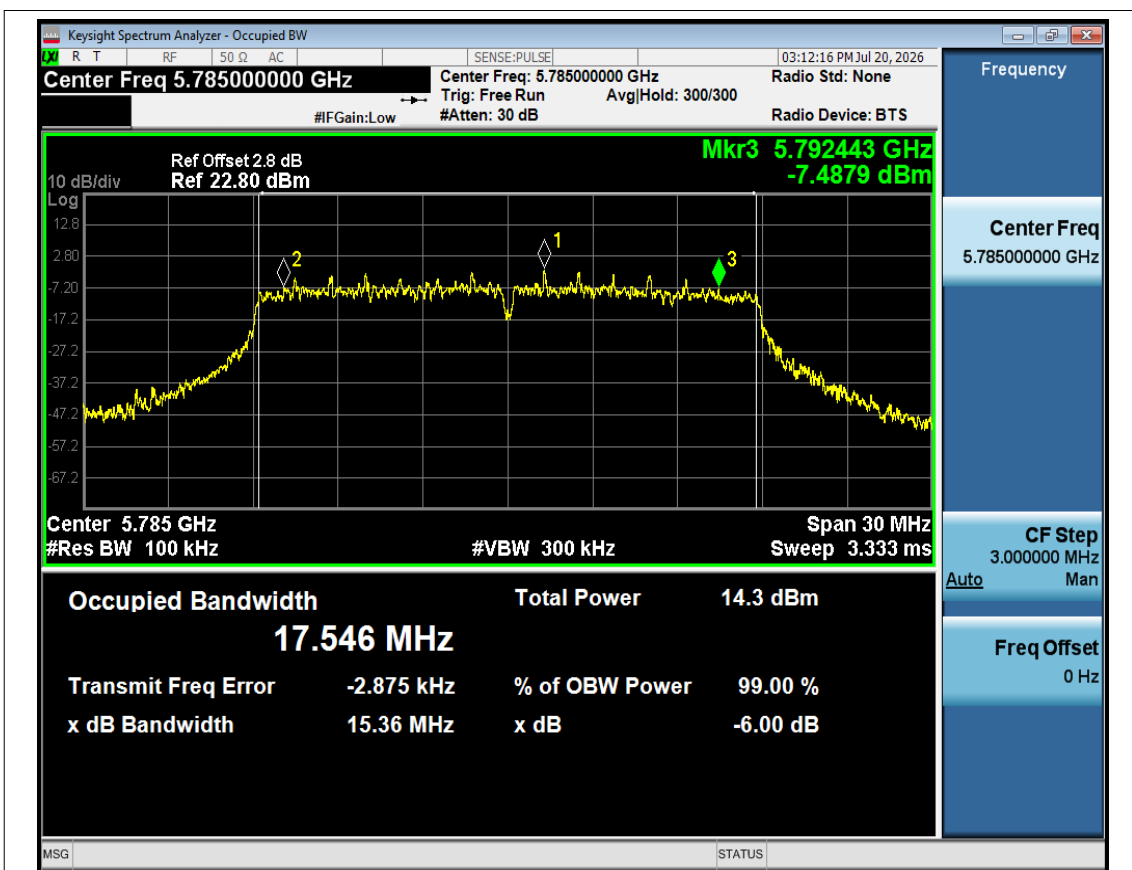
-6dB Bandwidth NVNT a 5785MHz Ant1



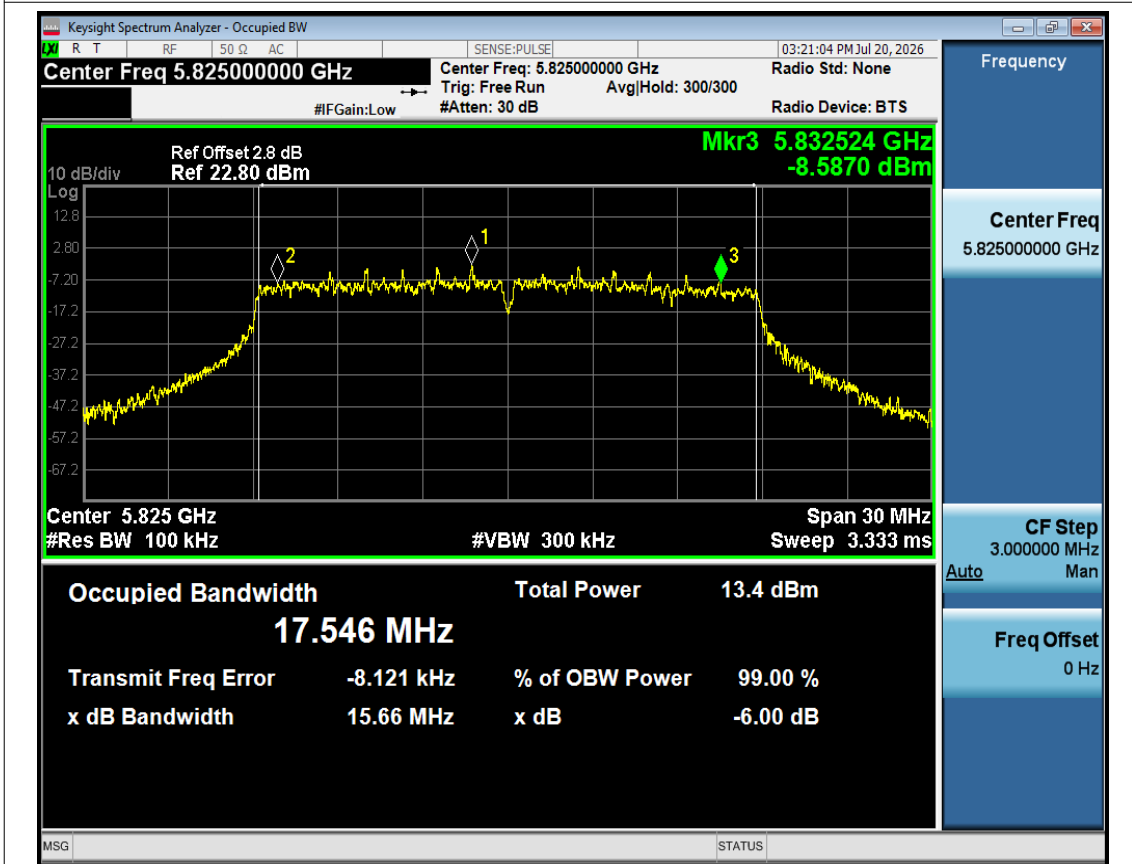
-6dB Bandwidth NVNT a 5825MHz Ant1



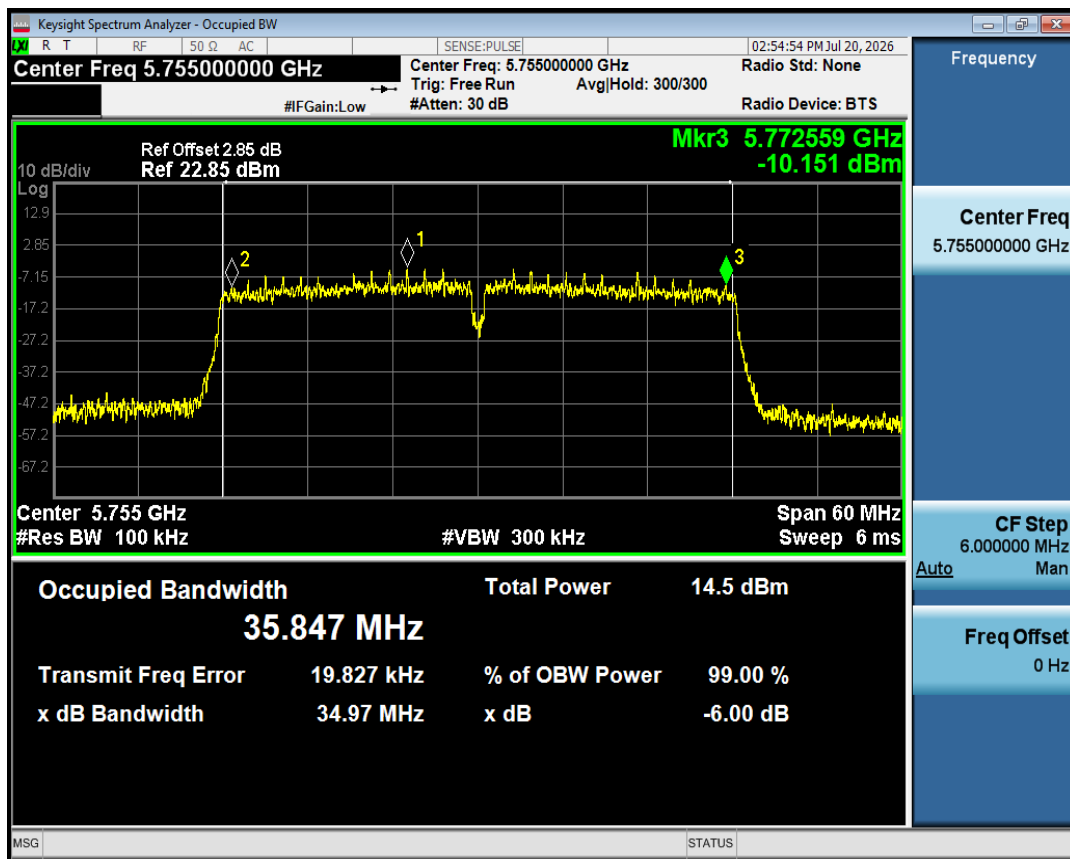
-6dB Bandwidth NVNT n20 5745MHz Ant1



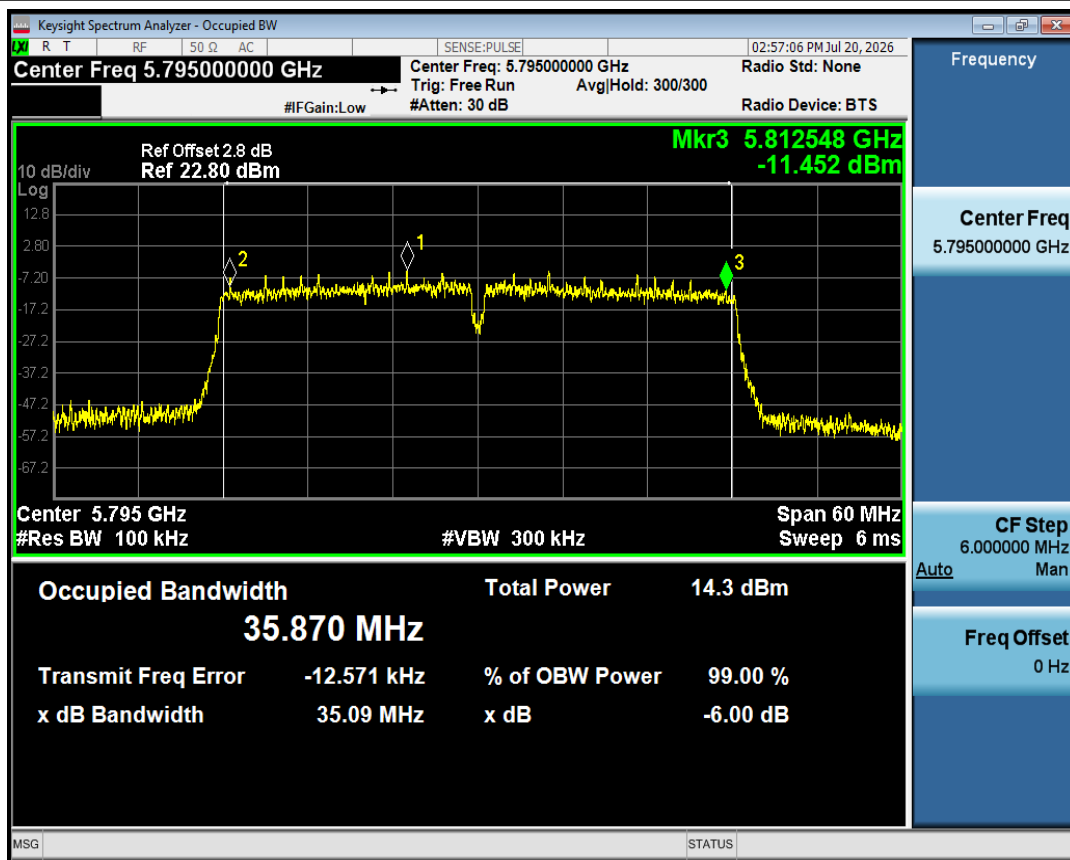
-6dB Bandwidth NVNT n20 5785MHz Ant1



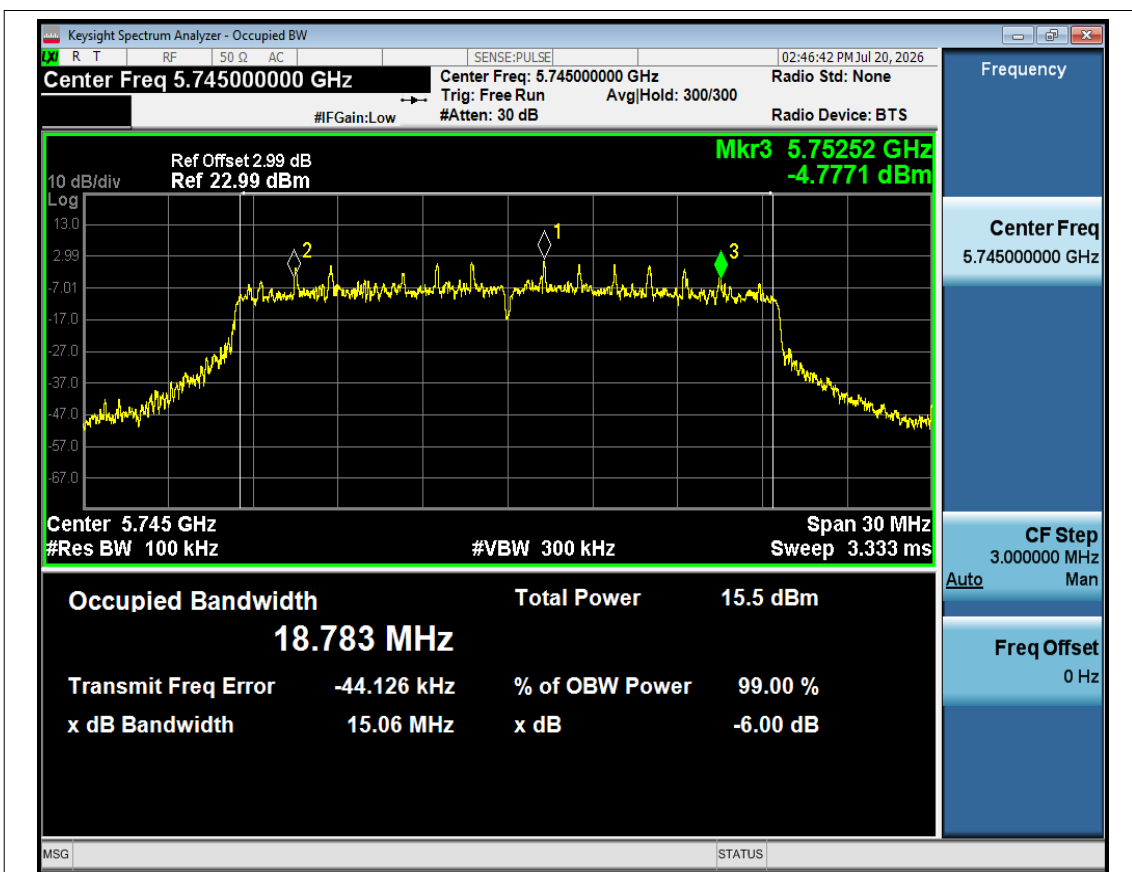
-6dB Bandwidth NVNT n20 5825MHz Ant1



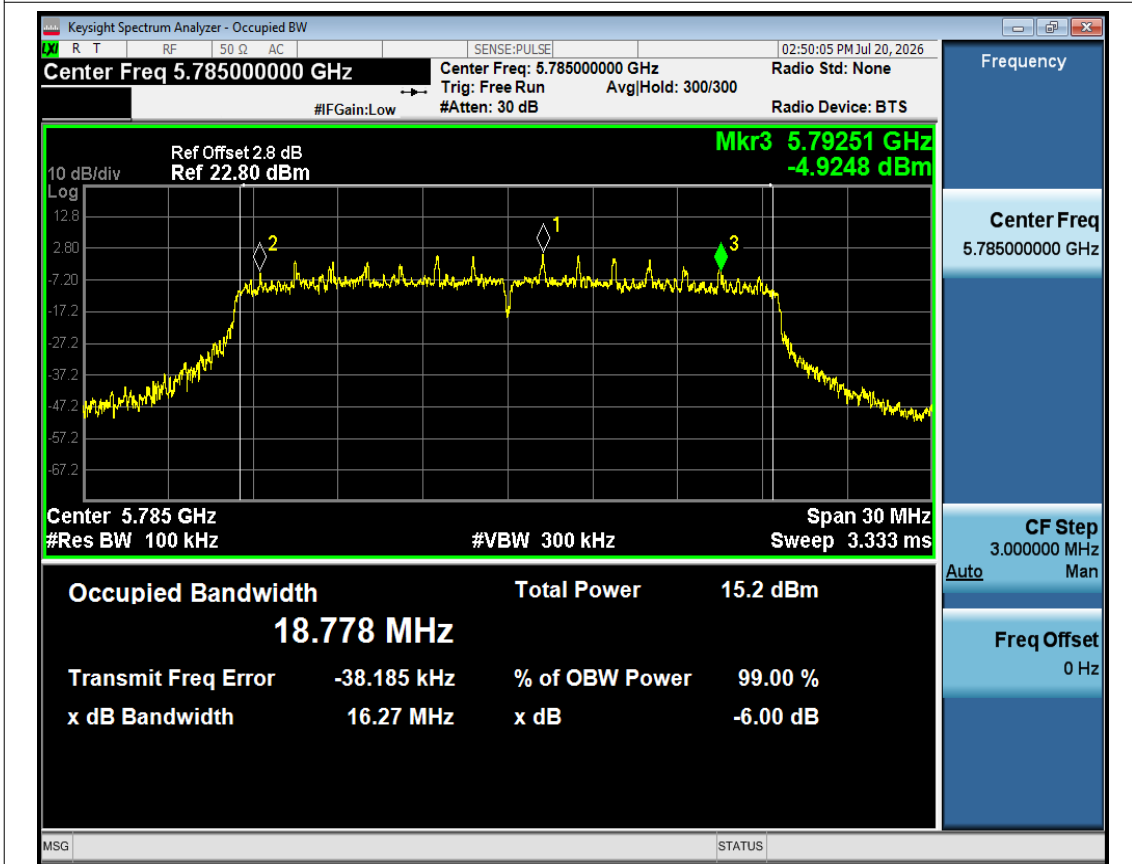
-6dB Bandwidth NVNT n40 5755MHz Ant1



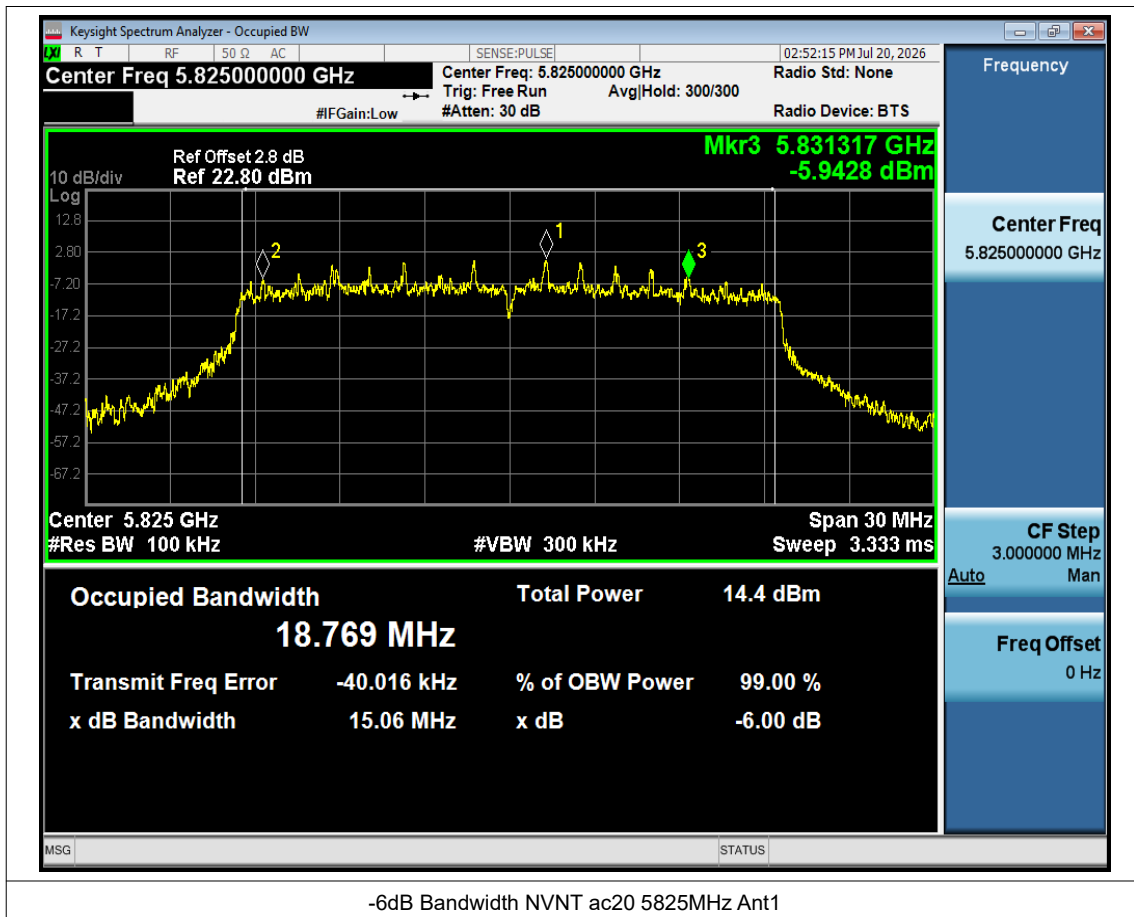
-6dB Bandwidth NVNT n40 5795MHz Ant1



-6dB Bandwidth NVNT ac20 5745MHz Ant1

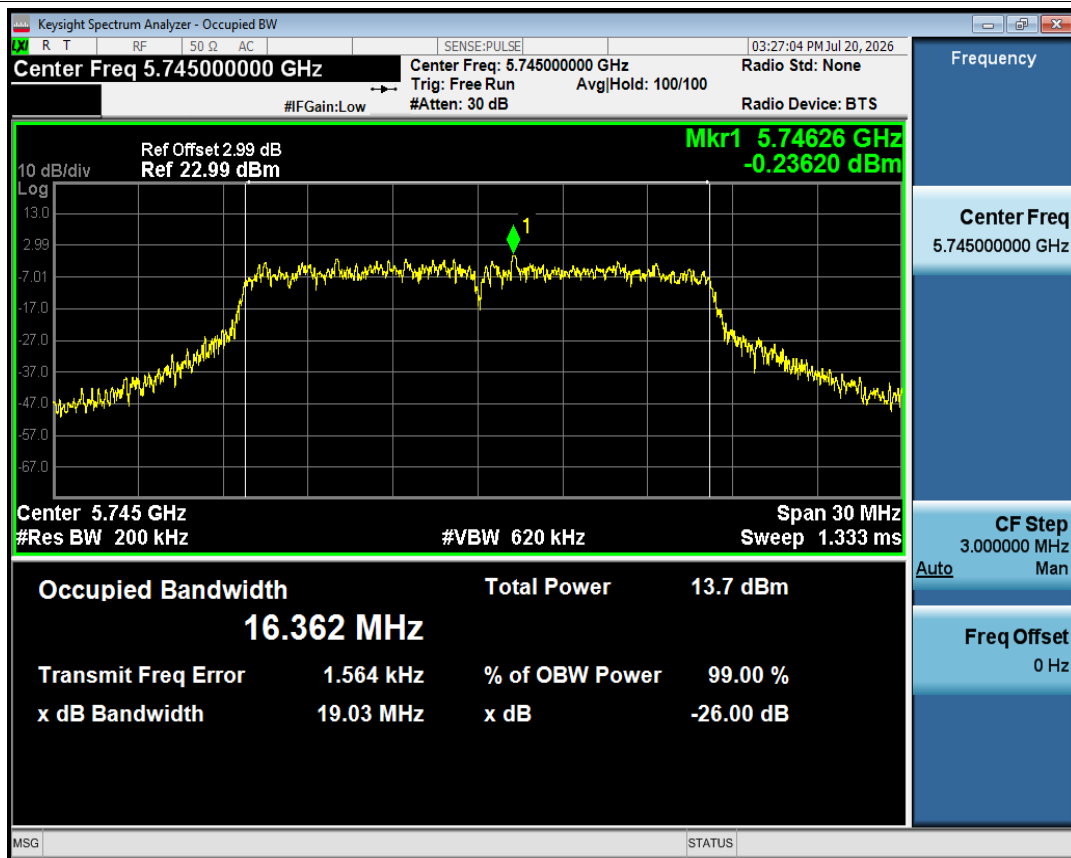


-6dB Bandwidth NVNT ac20 5785MHz Ant1

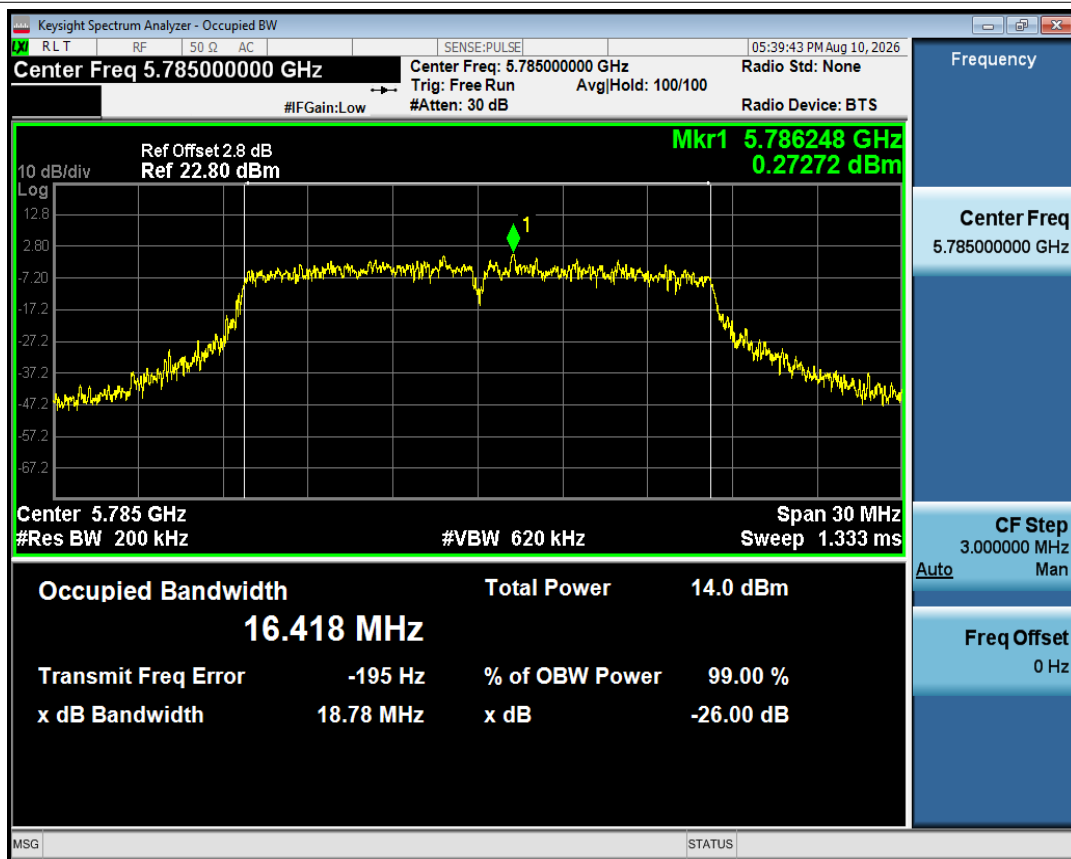


## Occupied Channel Bandwidth

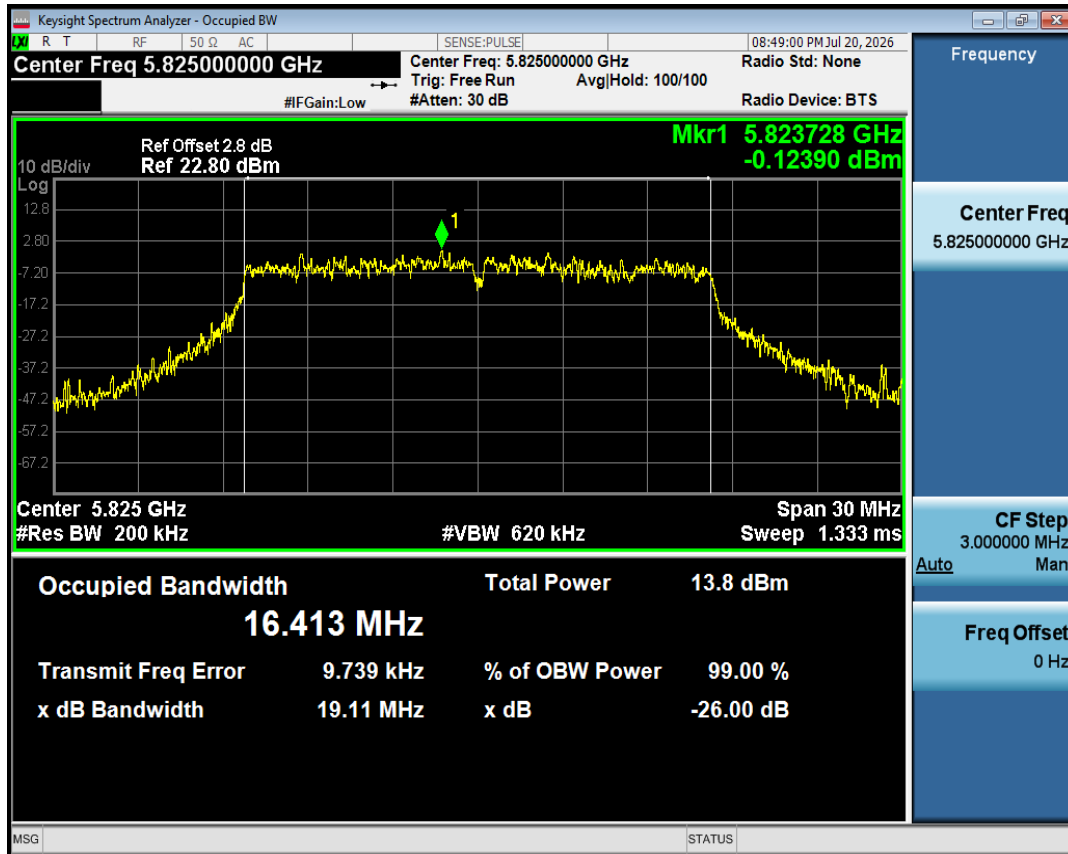
| Condition | Mode | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|-----------|------|-----------------|---------|---------------|
| NVNT      | a    | 5745            | Ant1    | 16.362        |
| NVNT      | a    | 5785            | Ant1    | 16.418        |
| NVNT      | a    | 5825            | Ant1    | 16.413        |
| NVNT      | n20  | 5745            | Ant1    | 17.56         |
| NVNT      | n20  | 5785            | Ant1    | 17.487        |
| NVNT      | n20  | 5825            | Ant1    | 17.572        |
| NVNT      | n40  | 5755            | Ant1    | 35.769        |
| NVNT      | n40  | 5795            | Ant1    | 35.916        |
| NVNT      | ac20 | 5745            | Ant1    | 18.867        |
| NVNT      | ac20 | 5785            | Ant1    | 18.61         |
| NVNT      | ac20 | 5825            | Ant1    | 18.867        |



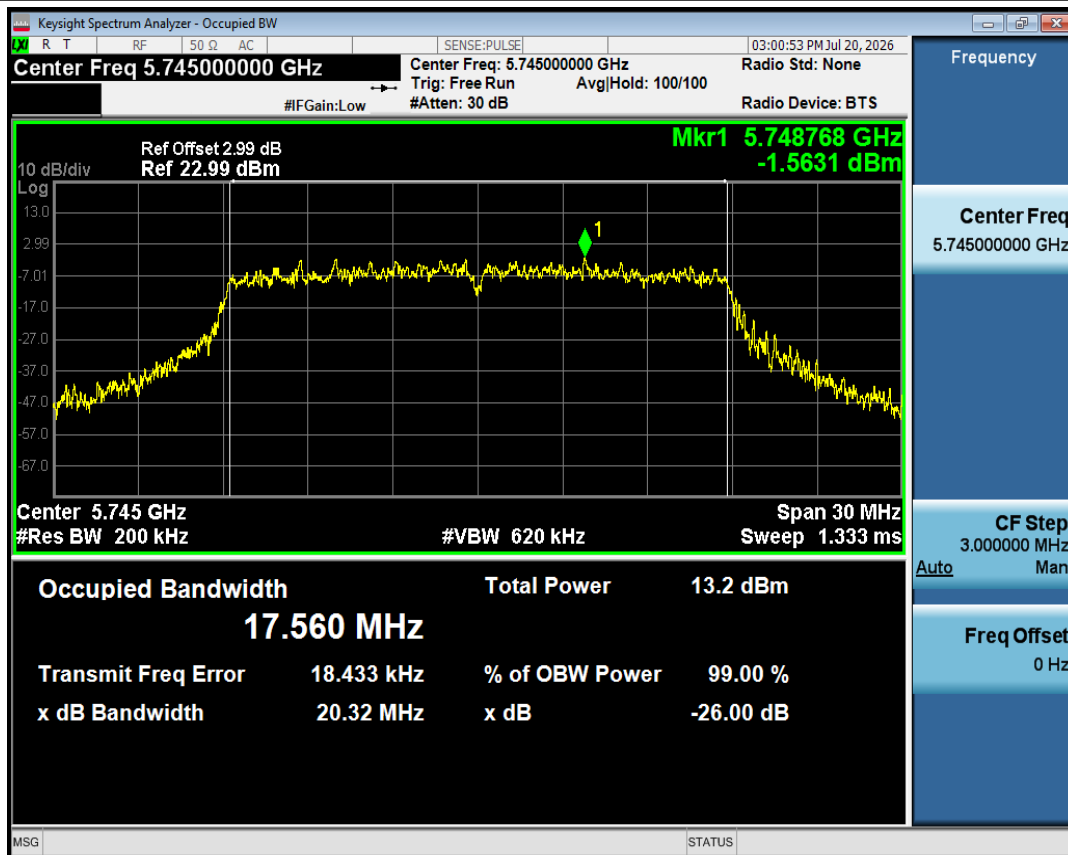
OBW NVNT a 5745MHz Ant1



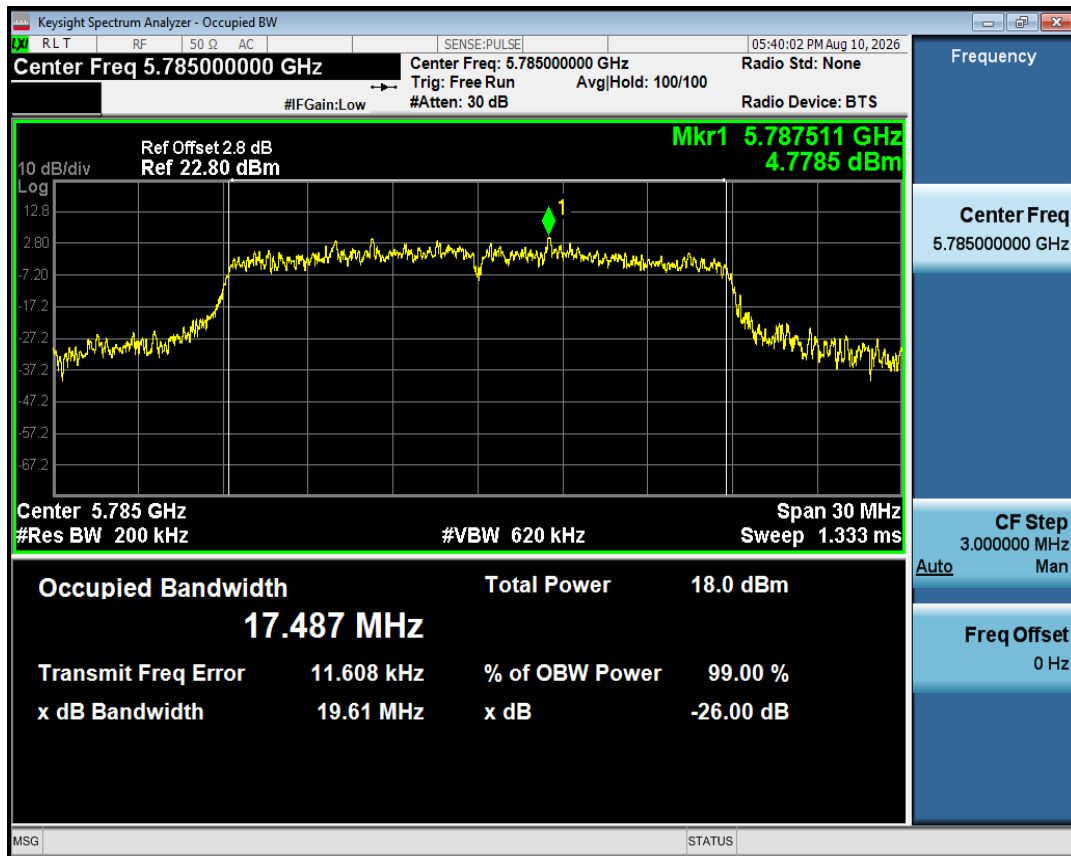
OBW NVNT a 5785MHz Ant1



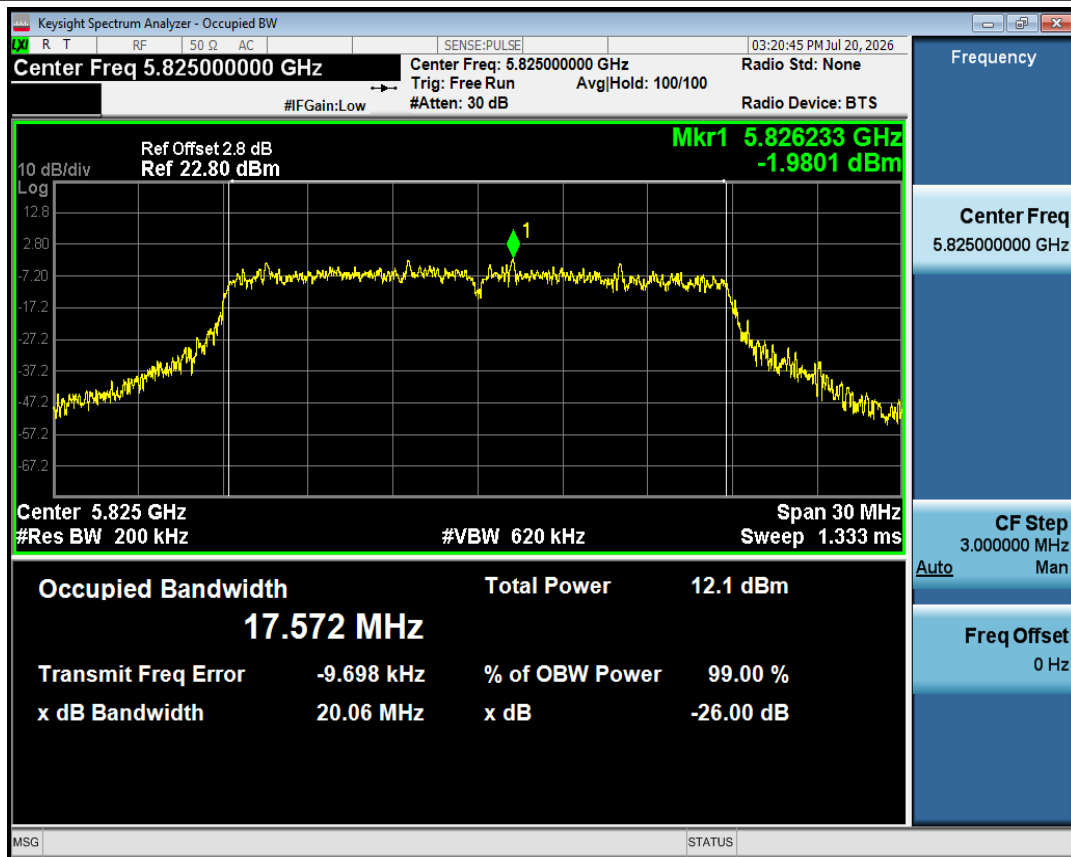
OBW NVNT a 5825MHz Ant1



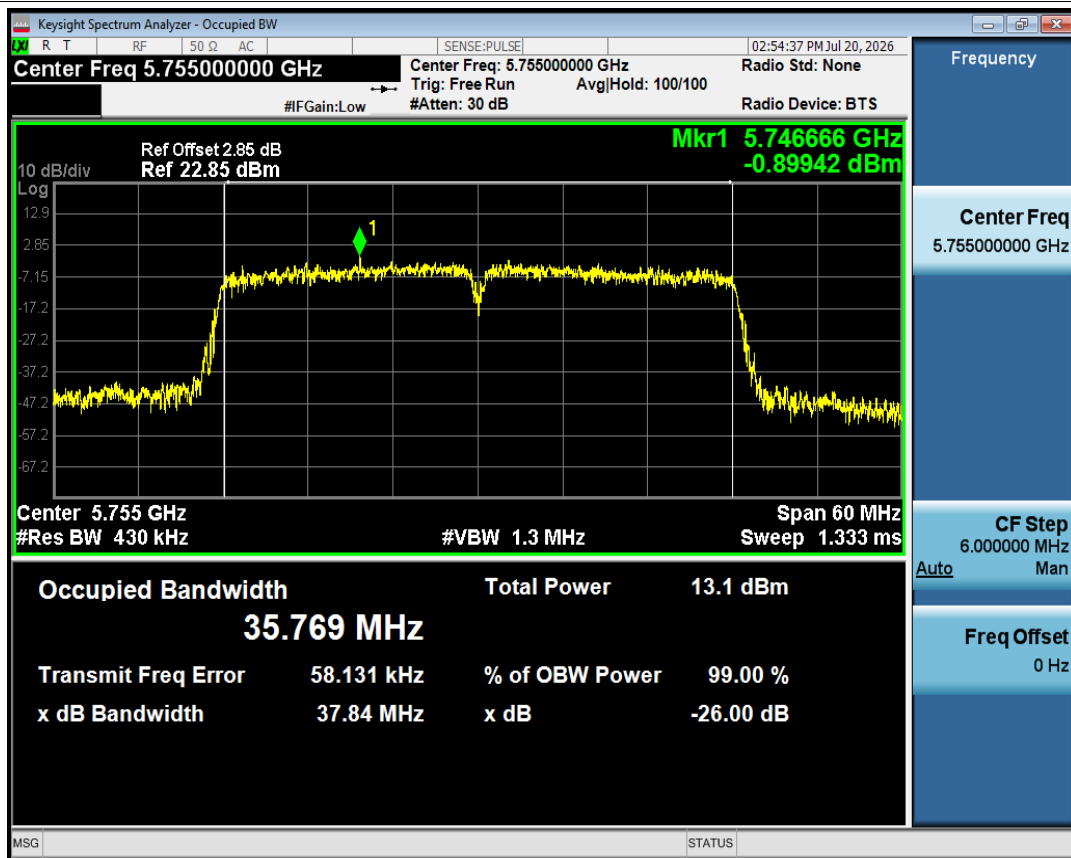
OBW NVNT n20 5745MHz Ant1



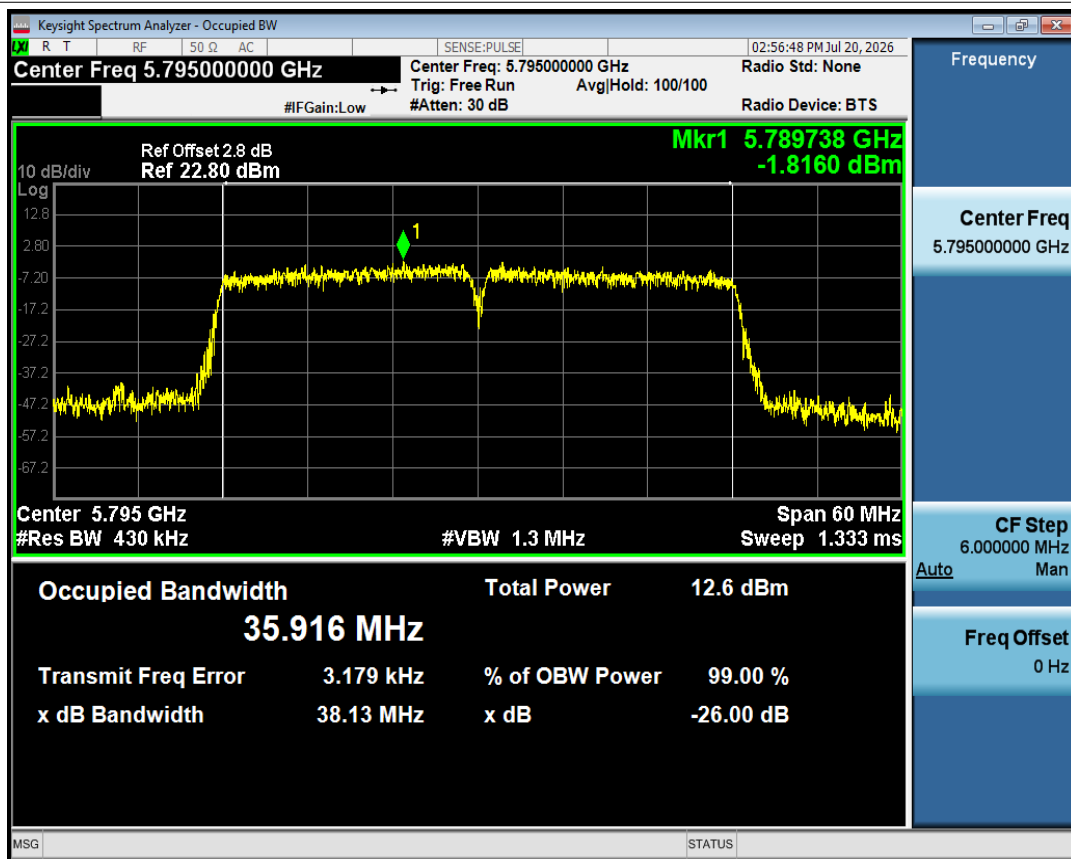
OBW NVNT n20 5785MHz Ant1



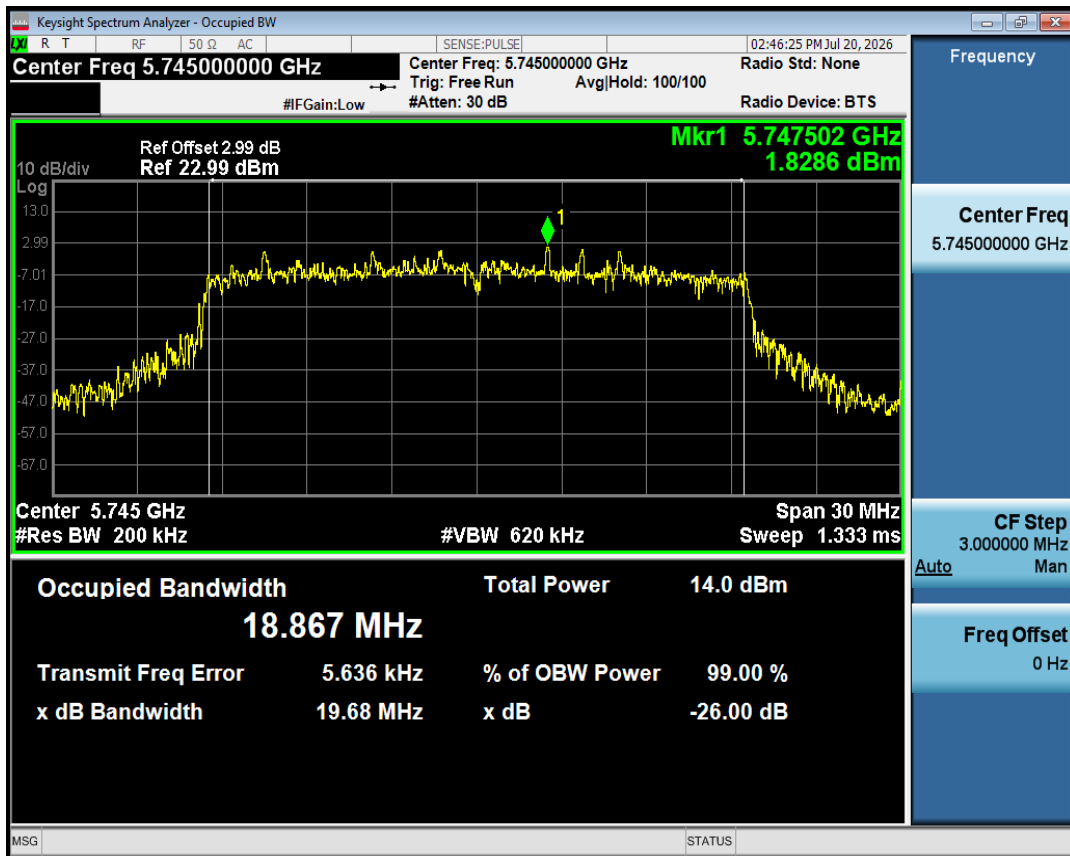
OBW NVNT n20 5825MHz Ant1



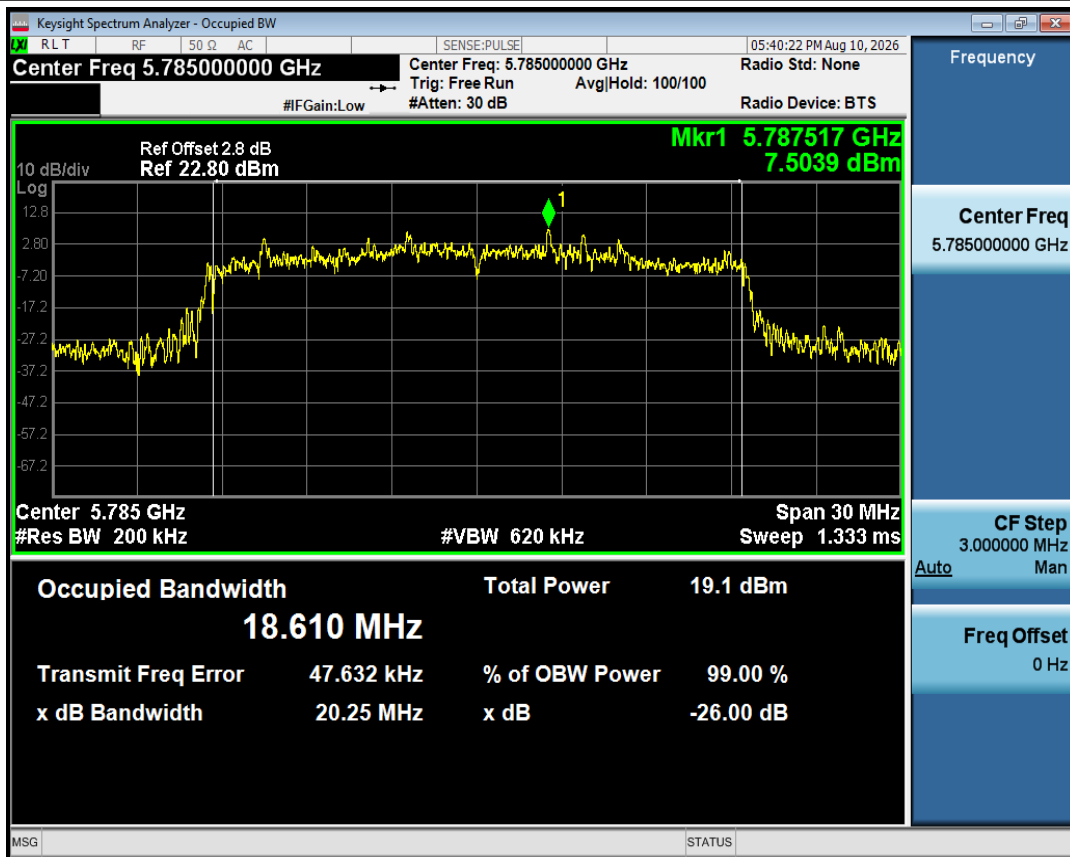
OBW NVNT n40 5755MHz Ant1



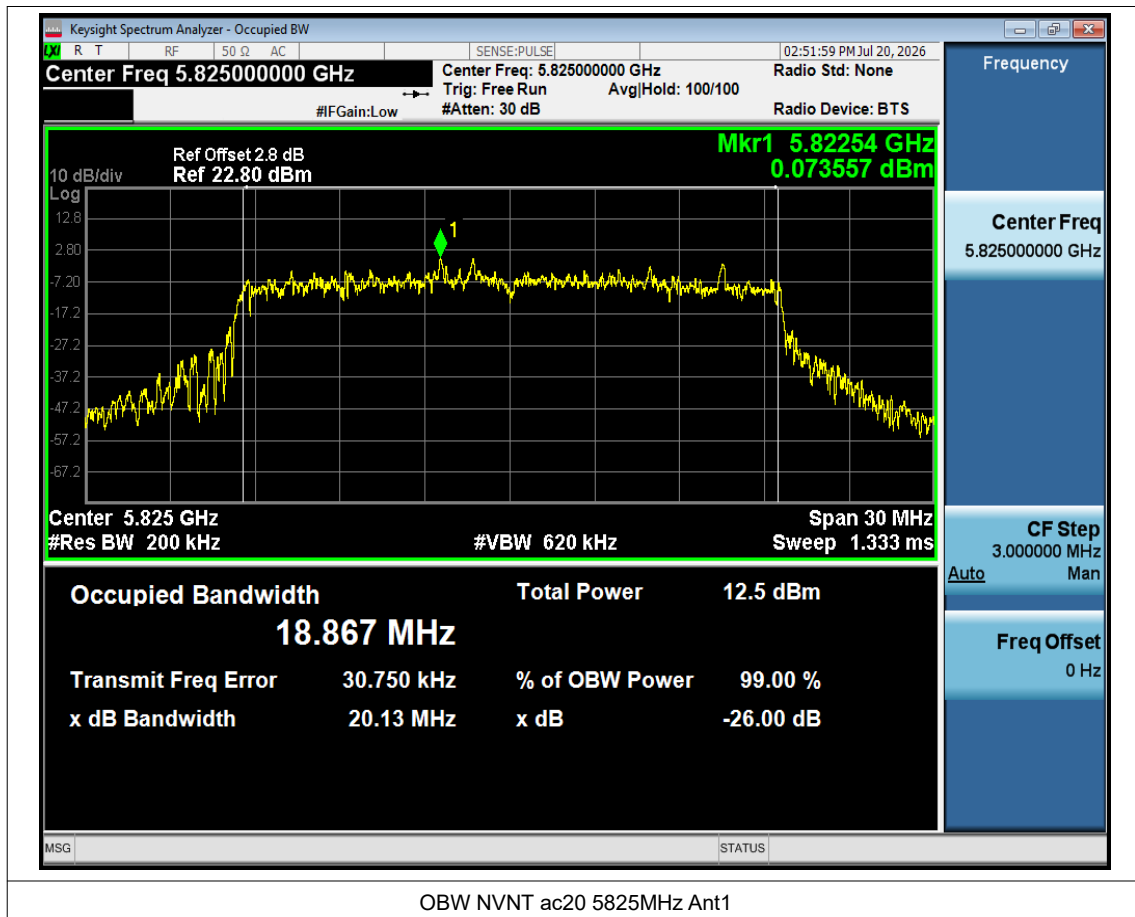
OBW NVNT n40 5795MHz Ant1



OBW NVNT ac20 5745MHz Ant1



OBW NVNT ac20 5785MHz Ant1



## Maximum Power Spectral Density Level

| Condition | Mode | Frequency<br>(MHz) | Antenna | Conducted<br>PSD<br>(dBm/510kHz) | Duty<br>Factor<br>(dB) | Total<br>Conducted<br>PSD<br>(dBm/510kHz) | Limit<br>Conducted(dBm/500kHz) | Verdict |
|-----------|------|--------------------|---------|----------------------------------|------------------------|-------------------------------------------|--------------------------------|---------|
| NVNT      | a    | 5745               | Ant1    | -12.11                           | 9.73                   | -2.38                                     | 30                             | Pass    |
| NVNT      | a    | 5785               | Ant1    | -12.55                           | 9.59                   | -2.96                                     | 30                             | Pass    |
| NVNT      | a    | 5825               | Ant1    | -12.56                           | 9.58                   | -2.98                                     | 30                             | Pass    |
| NVNT      | n20  | 5745               | Ant1    | -11.84                           | 9.44                   | -2.4                                      | 30                             | Pass    |
| NVNT      | n20  | 5785               | Ant1    | -13.98                           | 9.29                   | -4.69                                     | 30                             | Pass    |
| NVNT      | n20  | 5825               | Ant1    | -13.89                           | 9.31                   | -4.57                                     | 30                             | Pass    |
| NVNT      | n40  | 5755               | Ant1    | -16.14                           | 9.59                   | -6.55                                     | 30                             | Pass    |
| NVNT      | n40  | 5795               | Ant1    | -16.53                           | 9.59                   | -6.94                                     | 30                             | Pass    |
| NVNT      | ac20 | 5745               | Ant1    | -12.13                           | 9.31                   | -2.82                                     | 30                             | Pass    |
| NVNT      | ac20 | 5785               | Ant1    | -12.51                           | 10.1                   | -2.41                                     | 30                             | Pass    |
| NVNT      | ac20 | 5825               | Ant1    | -13.04                           | 9.95                   | -3.09                                     | 30                             | Pass    |



PSD NVNT a 5745MHz Ant1



PSD NVNT a 5785MHz Ant1



PSD NVNT a 5825MHz Ant1



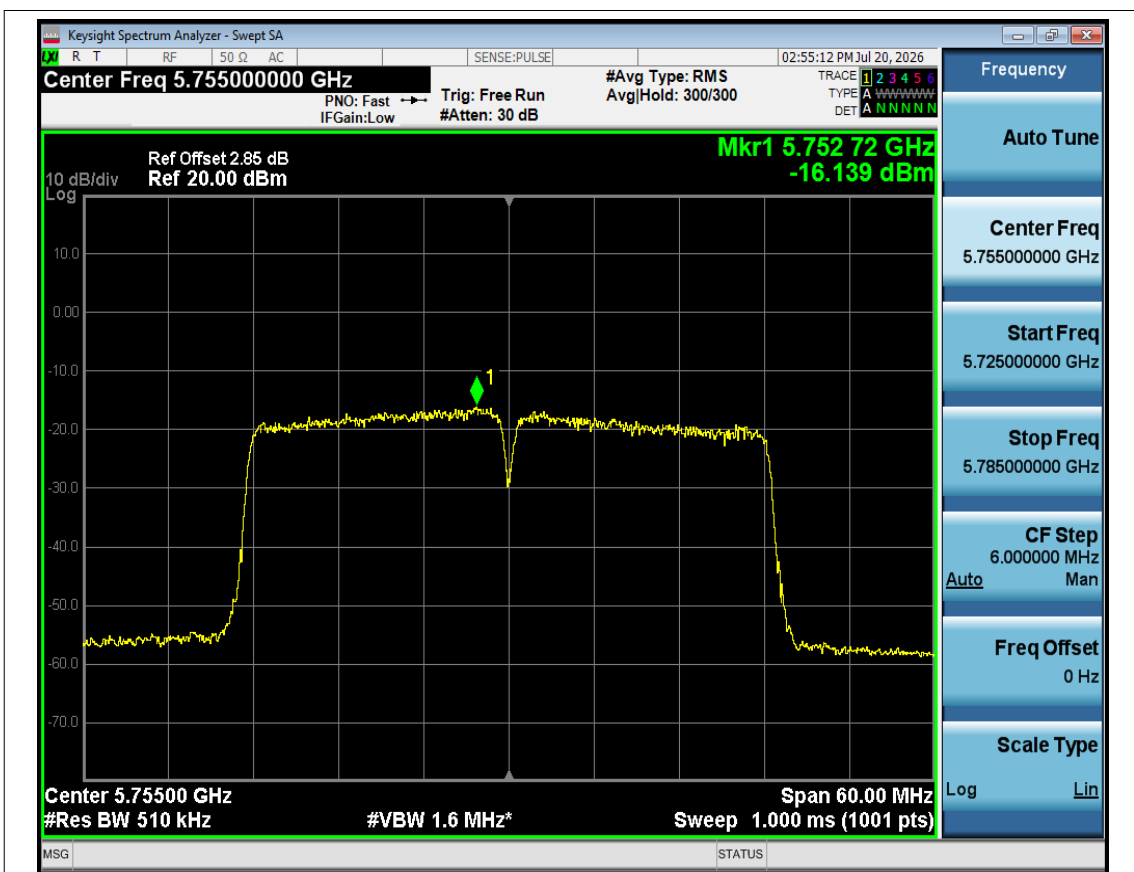
PSD NVNT n20 5745MHz Ant1



PSD NVNT n20 5785MHz Ant1



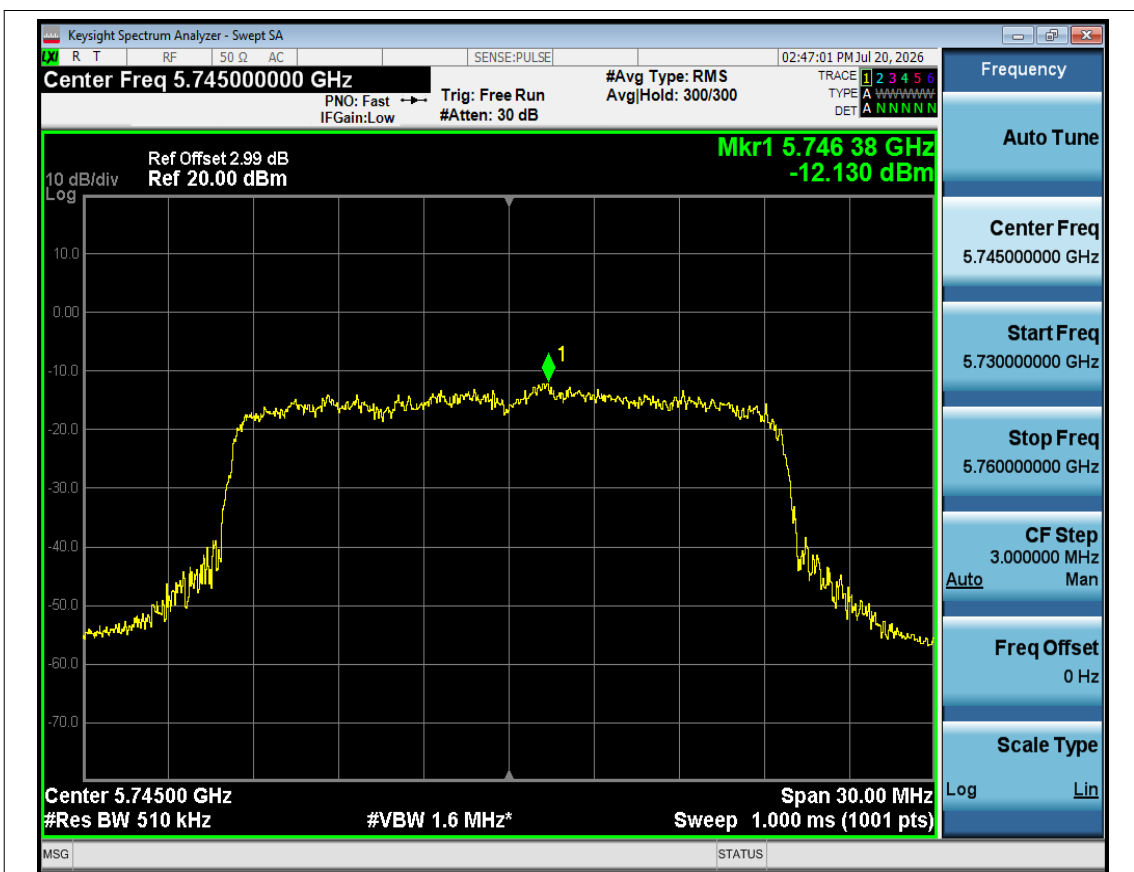
PSD NVNT n20 5825MHz Ant1



PSD NVNT n40 5755MHz Ant1



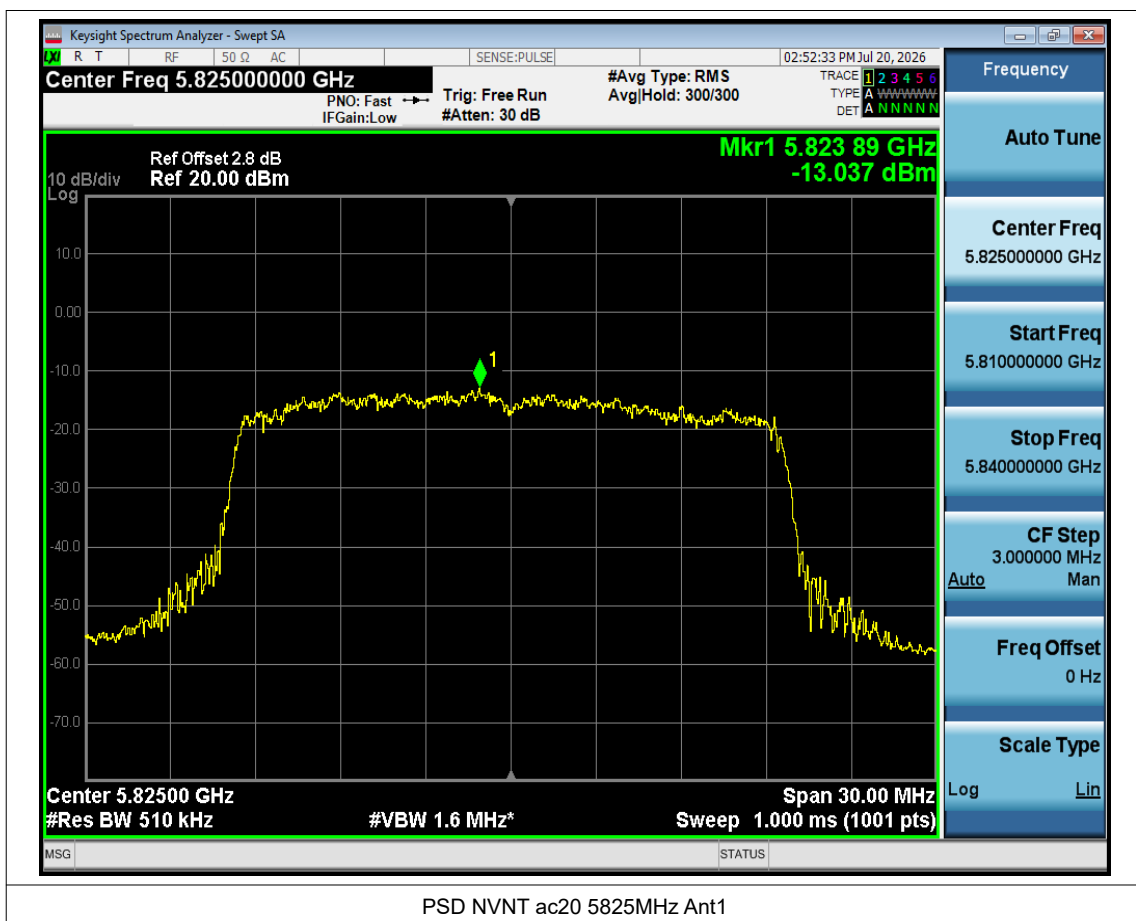
PSD NVNT n40 5795MHz Ant1



PSD NVNT ac20 5745MHz Ant1

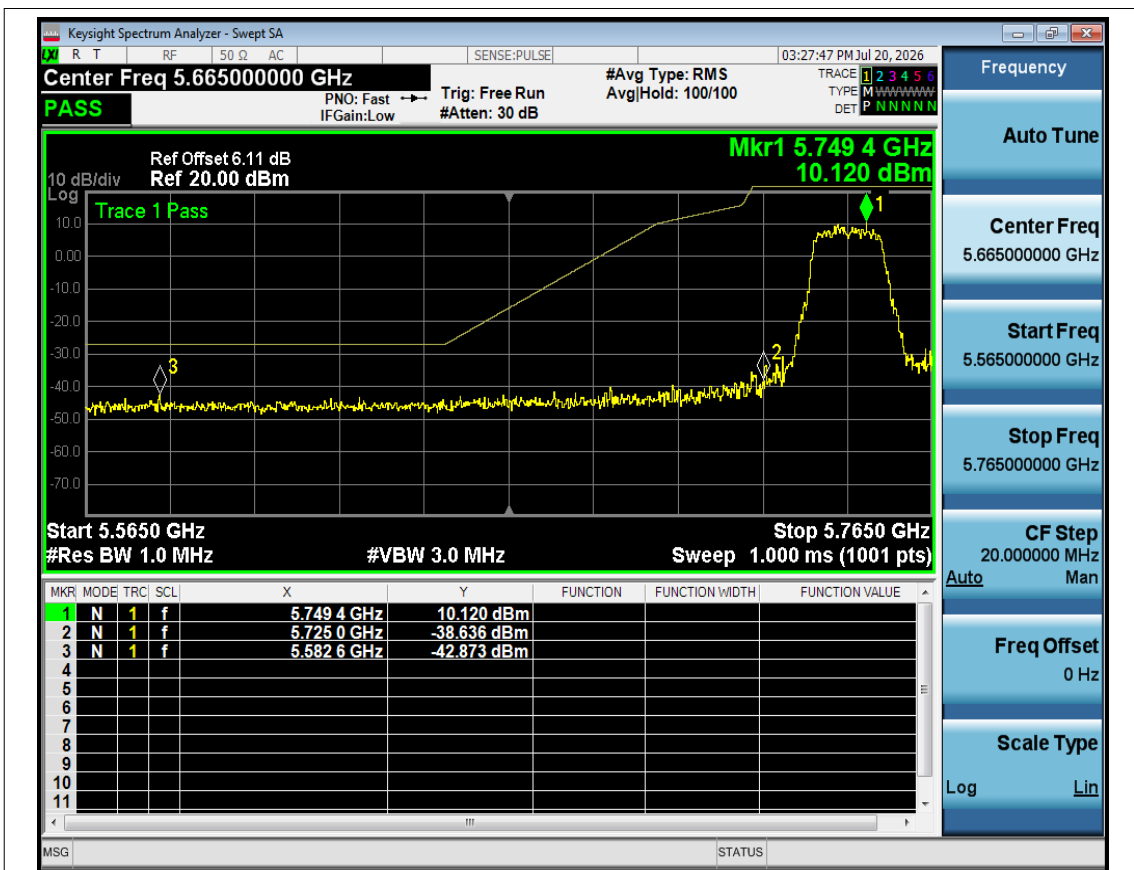


PSD NVNT ac20 5785MHz Ant1



## Band Edge

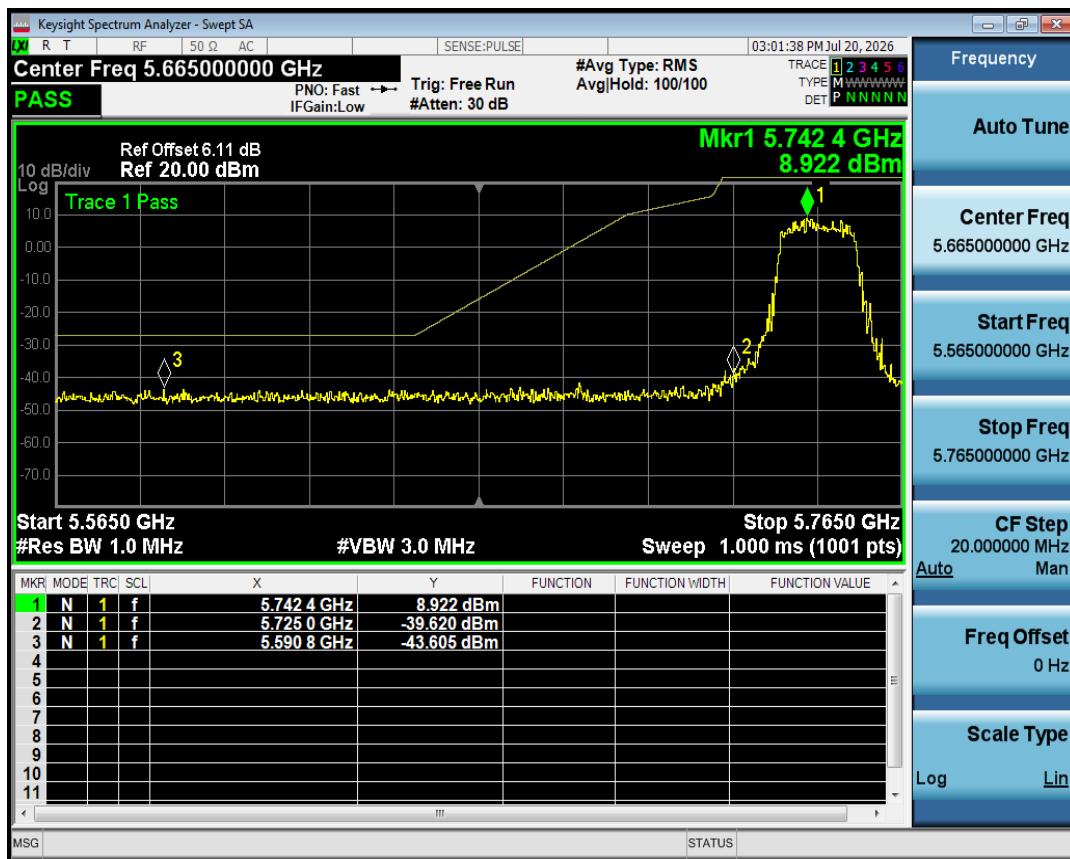
| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBm) | Limit (dBm)    | Verdict |
|-----------|------|-----------------|---------|-----------------|----------------|---------|
| NVNT      | a    | 5745            | Ant1    | -42.87          | See test Graph | Pass    |
| NVNT      | a    | 5825            | Ant1    | -42.99          | See test Graph | Pass    |
| NVNT      | n20  | 5745            | Ant1    | -43.6           | See test Graph | Pass    |
| NVNT      | n20  | 5825            | Ant1    | -43.75          | See test Graph | Pass    |
| NVNT      | n40  | 5755            | Ant1    | -42.94          | See test Graph | Pass    |
| NVNT      | n40  | 5795            | Ant1    | -43.59          | See test Graph | Pass    |
| NVNT      | ac20 | 5745            | Ant1    | -42.24          | See test Graph | Pass    |
| NVNT      | ac20 | 5825            | Ant1    | -43.77          | See test Graph | Pass    |



Band Edge NVNT a 5745MHz Low Ant1



Band Edge NVNT a 5825MHz High Ant1



Band Edge NVNT n20 5745MHz Low Ant1



Band Edge NVNT n20 5825MHz High Ant1



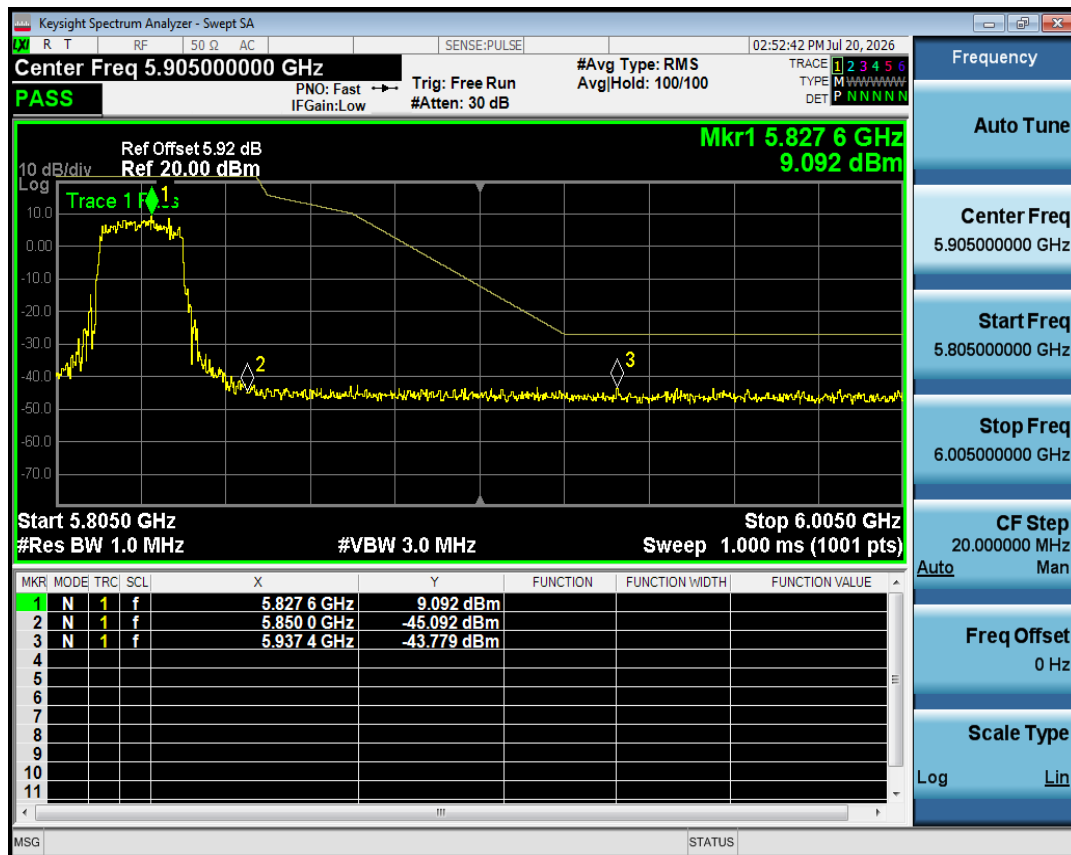
Band Edge NVNT n40 5755MHz Low Ant1



Band Edge NVNT n40 5795MHz High Ant1



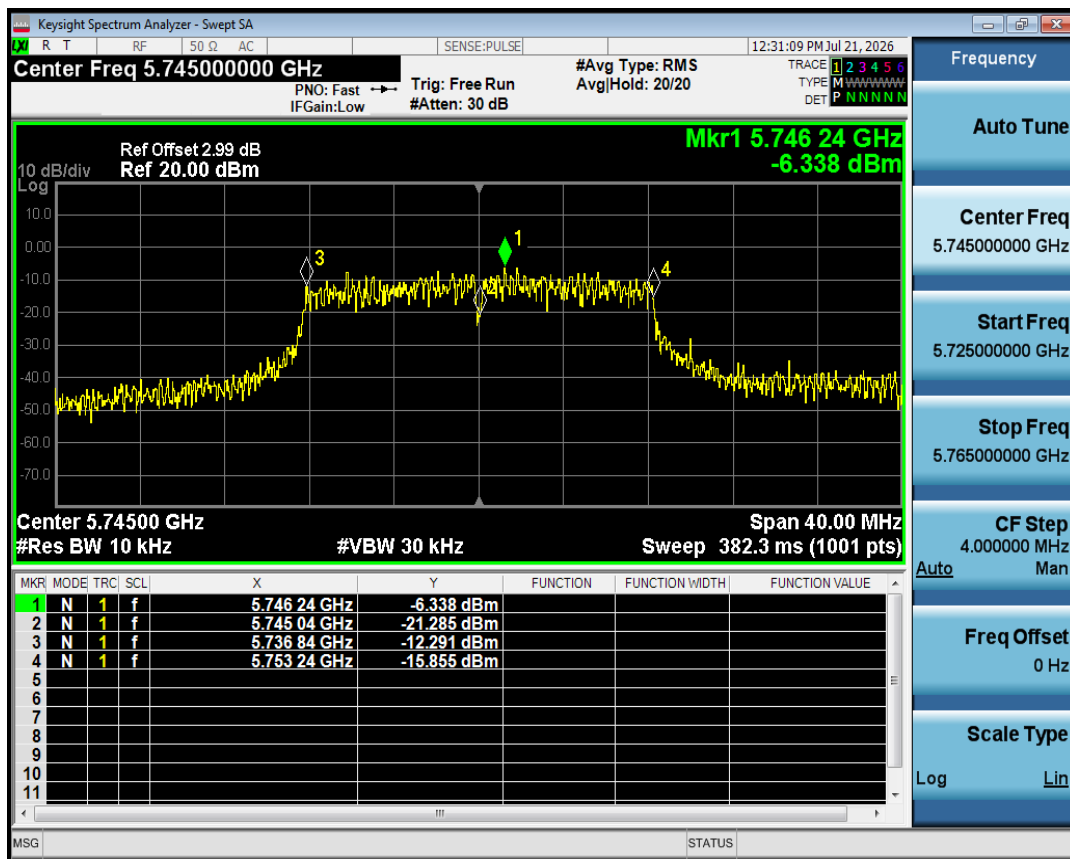
Band Edge NVNT ac20 5745MHz Low Ant1



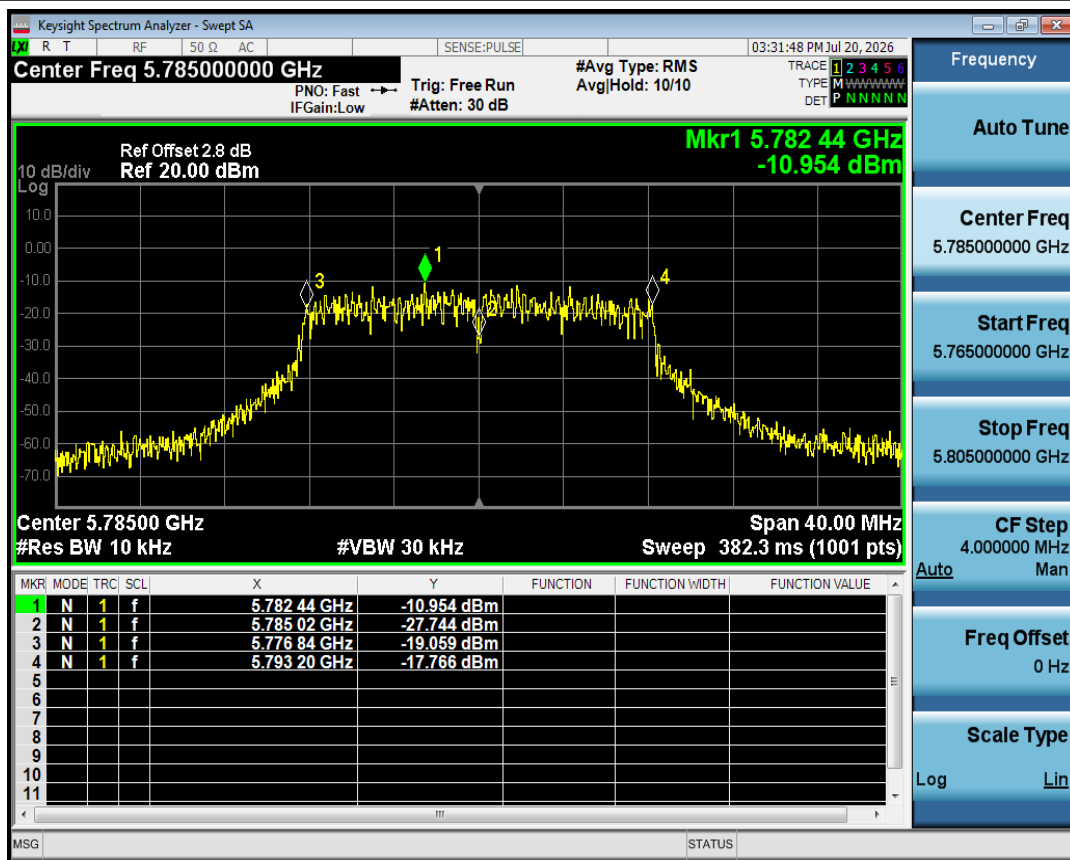
Band Edge NVNT ac20 5825MHz High Ant1

## Frequency Stability

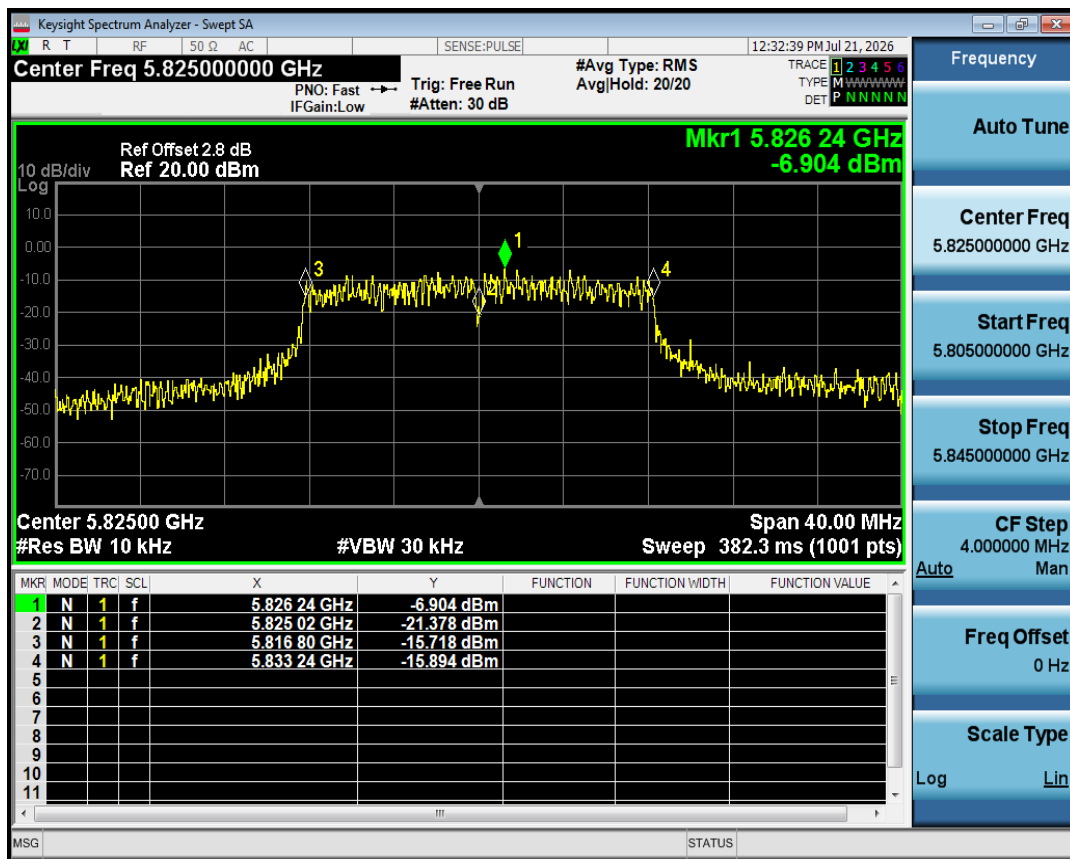
| Condition | Mode | Frequency (MHz) | Antenna | Measured Frequency (MHz) | Frequency Error (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|-----------|------|-----------------|---------|--------------------------|----------------------|-----------------|-------------|---------|
| NVNT      | a    | 5745            | Ant1    | 5745.04                  | 40000                | 6.96            | 25          | Pass    |
| NVNT      | a    | 5785            | Ant1    | 5785.02                  | 20000                | 3.46            | 25          | Pass    |
| NVNT      | a    | 5825            | Ant1    | 5825.02                  | 20000                | 3.43            | 25          | Pass    |
| NVNT      | n20  | 5745            | Ant1    | 5744.98                  | -20000               | -3.48           | 25          | Pass    |
| NVNT      | n20  | 5785            | Ant1    | 5785                     | 0                    | 0               | 25          | Pass    |
| NVNT      | n20  | 5825            | Ant1    | 5825                     | 0                    | 0               | 25          | Pass    |
| NVNT      | n40  | 5755            | Ant1    | 5755                     | 0                    | 0               | 25          | Pass    |
| NVNT      | n40  | 5795            | Ant1    | 5795                     | 0                    | 0               | 25          | Pass    |
| NVNT      | ac20 | 5745            | Ant1    | 5744.98                  | -20000               | -3.48           | 25          | Pass    |
| NVNT      | ac20 | 5785            | Ant1    | 5784.98                  | -20000               | -3.46           | 25          | Pass    |
| NVNT      | ac20 | 5825            | Ant1    | 5825                     | 0                    | 0               | 25          | Pass    |



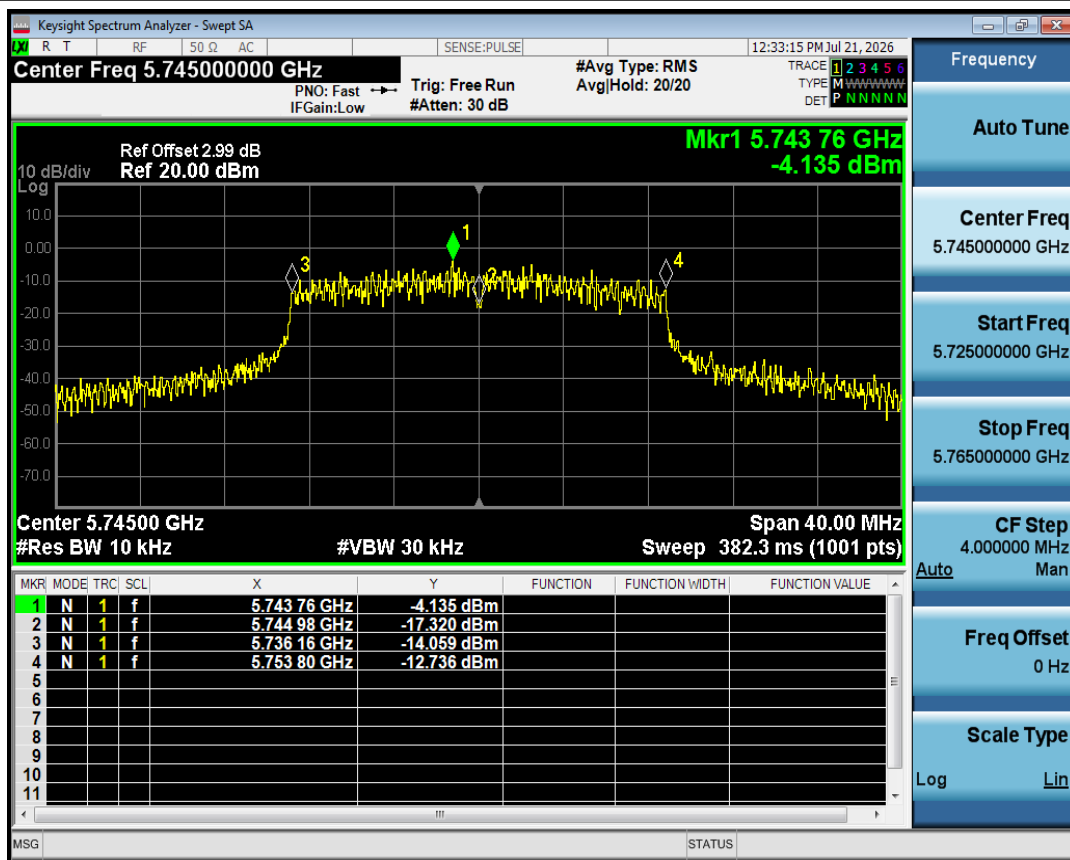
Freq. Stability NVNT a 5745MHz Ant1



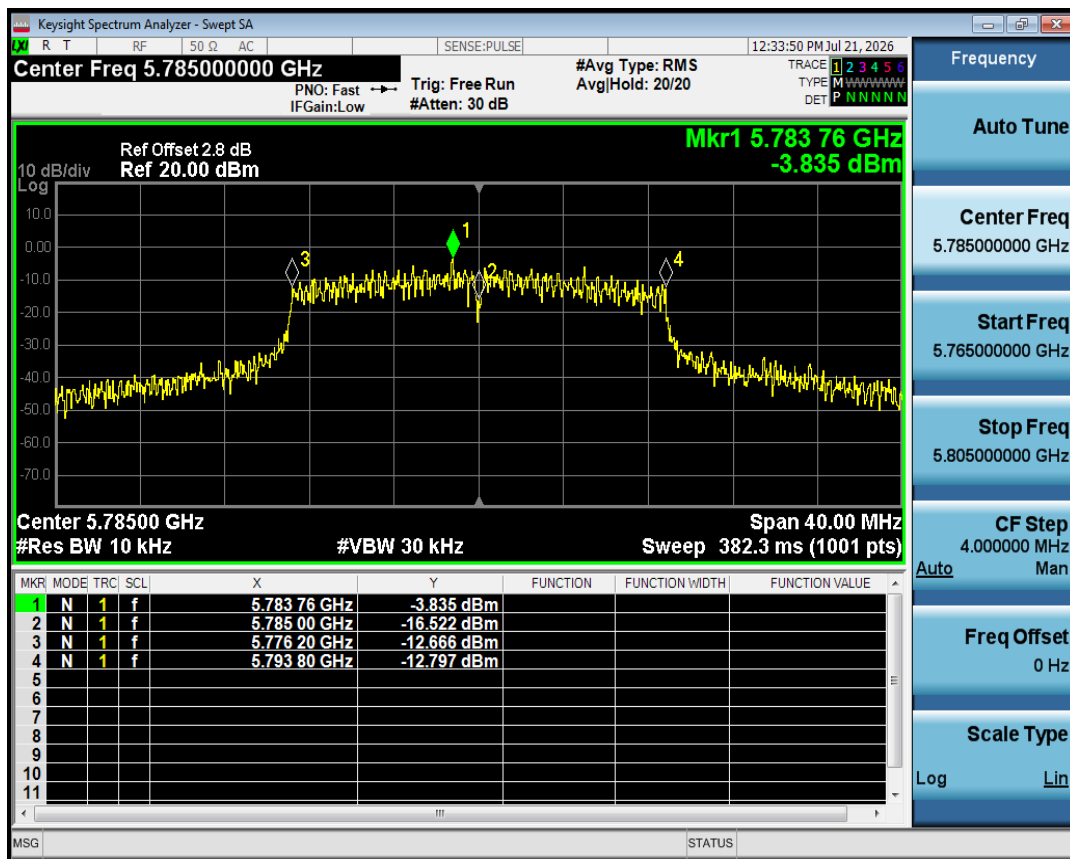
Freq. Stability NVNT a 5785MHz Ant1



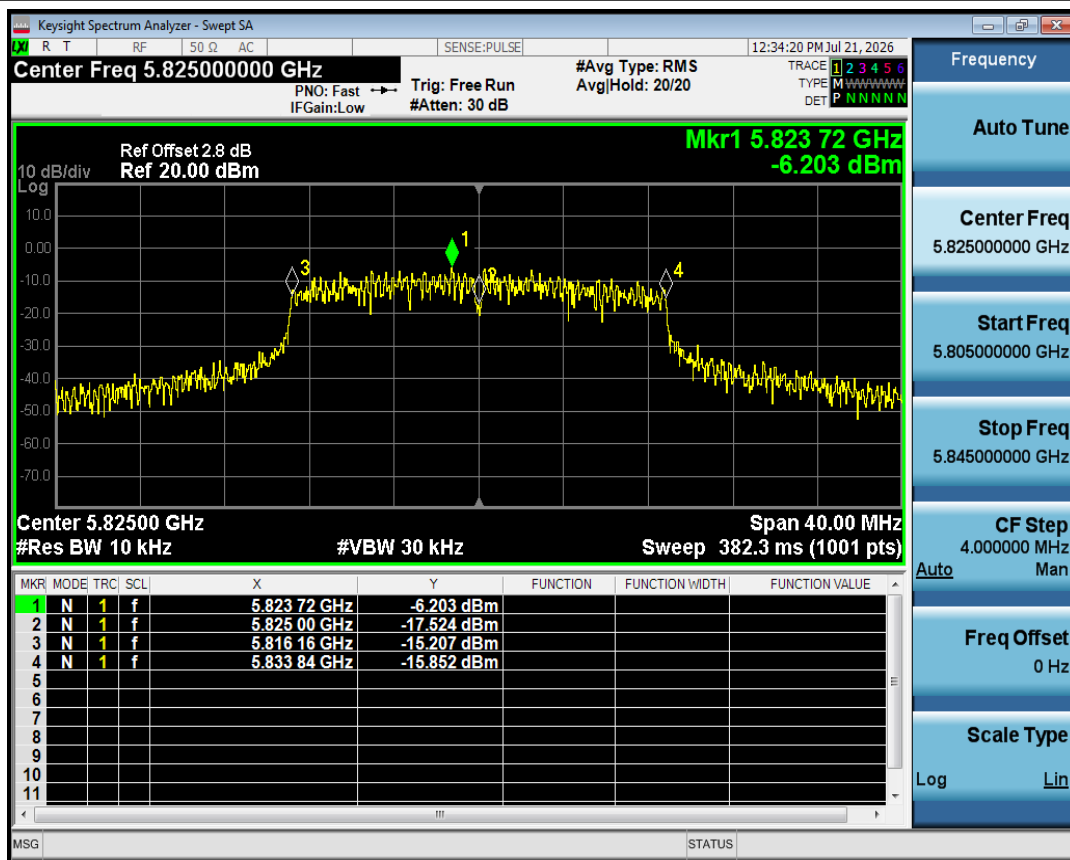
Freq. Stability NVNT a 5825MHz Ant1



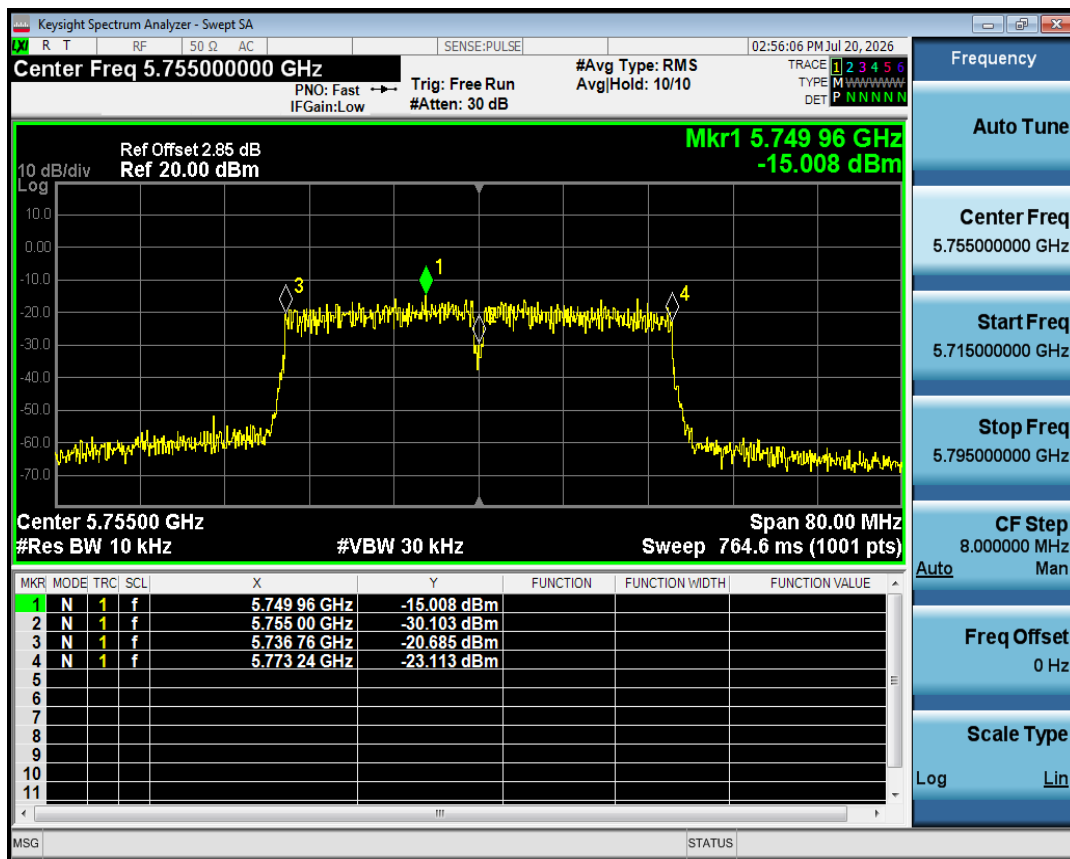
Freq. Stability NVNT n20 5745MHz Ant1



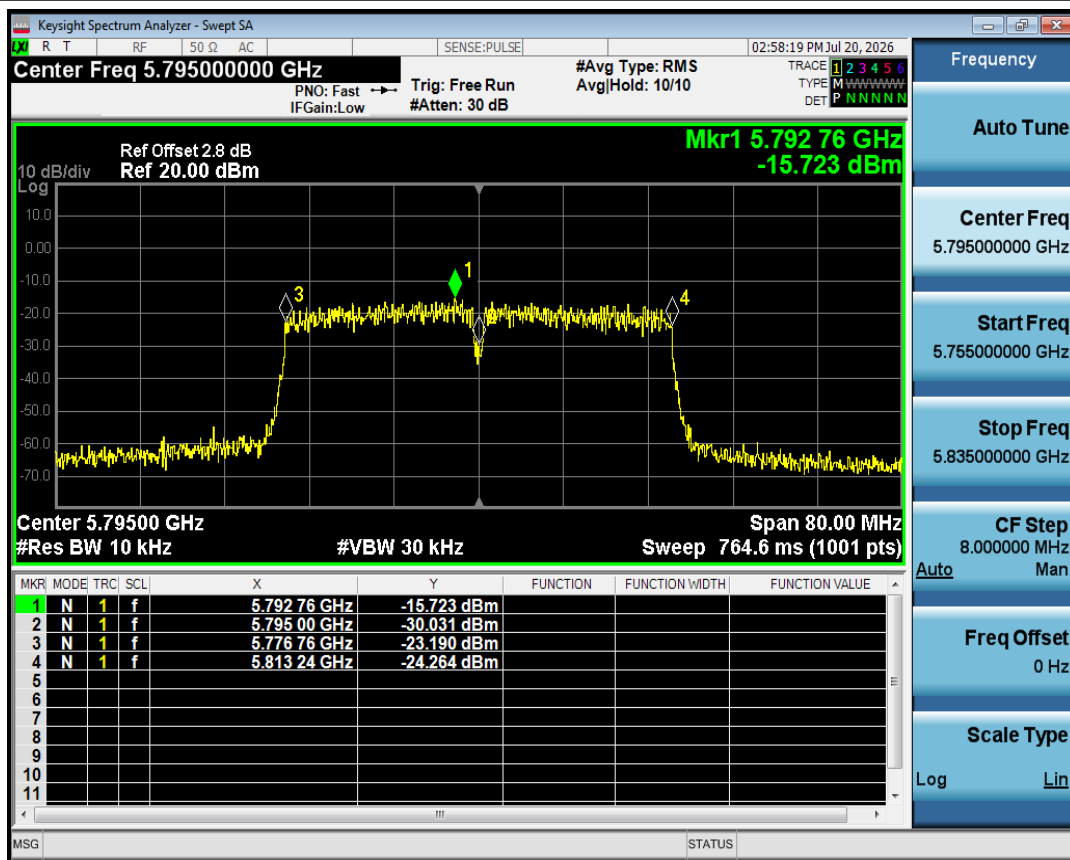
Freq. Stability NVNT n20 5785MHz Ant1



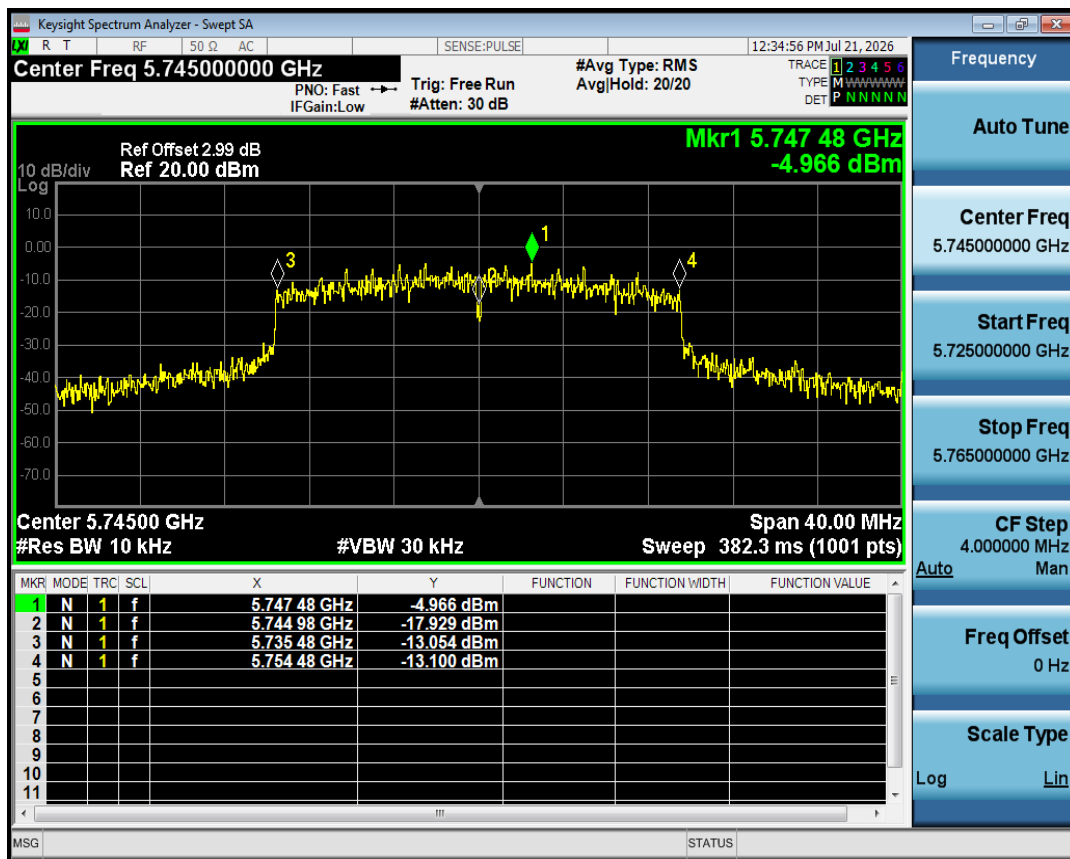
Freq. Stability NVNT n20 5825MHz Ant1



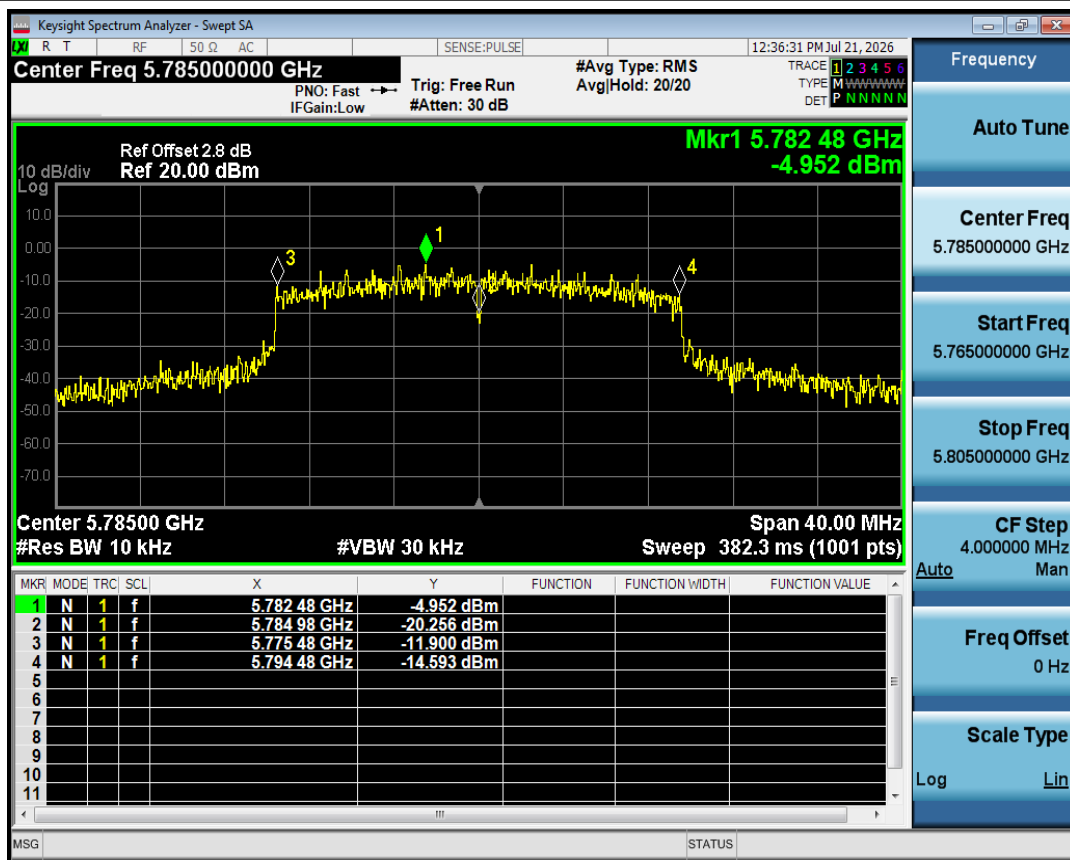
Freq. Stability NVNT n40 5755MHz Ant1



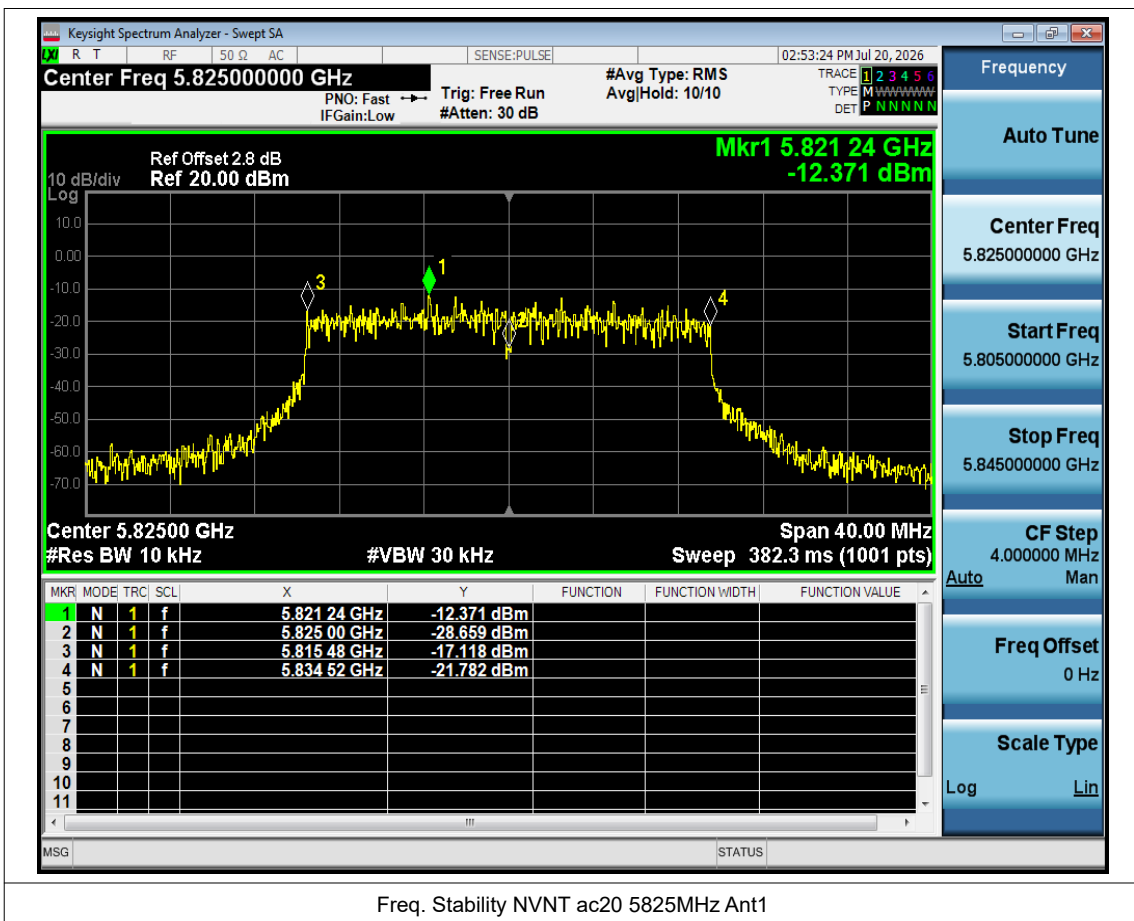
Freq. Stability NVNT n40 5795MHz Ant1



Freq. Stability NVNT ac20 5745MHz Ant1

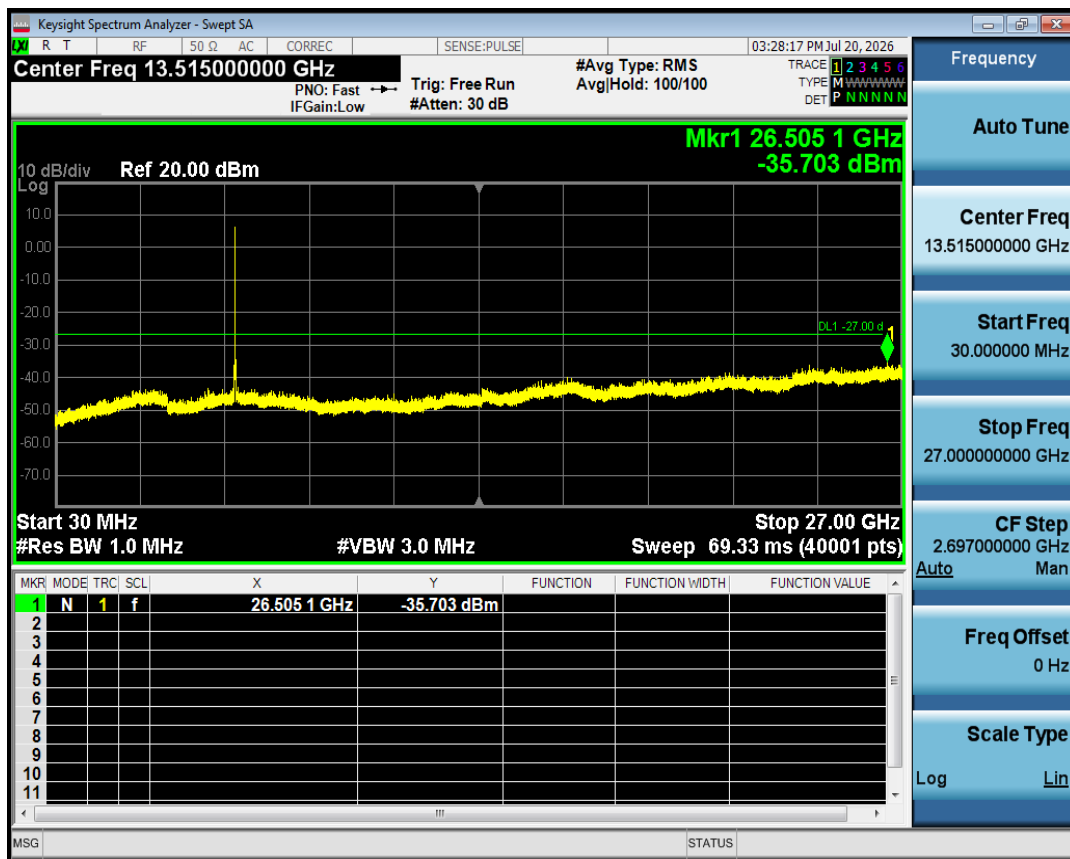


Freq. Stability NVNT ac20 5785MHz Ant1

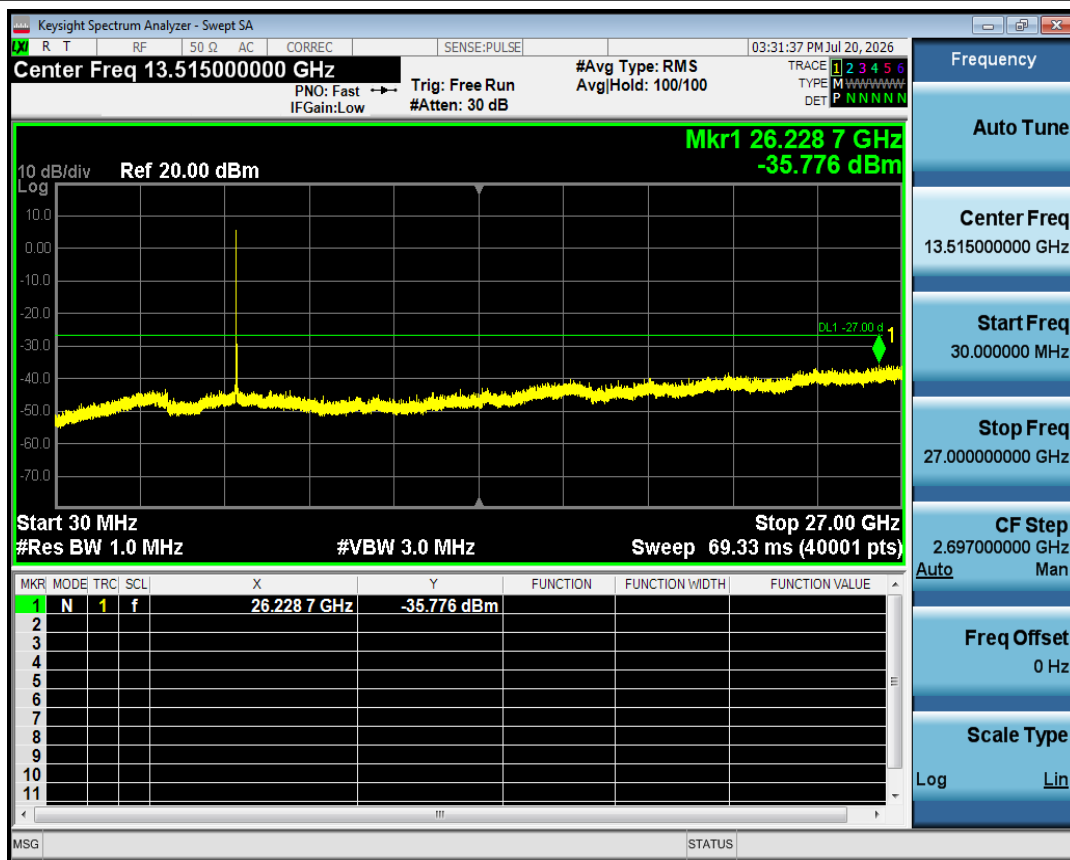


## Conducted RF Spurious Emission

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | a    | 5745            | Ant1    | -35.7           | -27         | Pass    |
| NVNT      | a    | 5785            | Ant1    | -35.77          | -27         | Pass    |
| NVNT      | a    | 5825            | Ant1    | -35.79          | -27         | Pass    |
| NVNT      | n20  | 5745            | Ant1    | -36.24          | -27         | Pass    |
| NVNT      | n20  | 5785            | Ant1    | -35.1           | -27         | Pass    |
| NVNT      | n20  | 5825            | Ant1    | -36.1           | -27         | Pass    |
| NVNT      | n40  | 5755            | Ant1    | -36.36          | -27         | Pass    |
| NVNT      | n40  | 5795            | Ant1    | -36.38          | -27         | Pass    |
| NVNT      | ac20 | 5745            | Ant1    | -35.8           | -27         | Pass    |
| NVNT      | ac20 | 5785            | Ant1    | -35.83          | -27         | Pass    |
| NVNT      | ac20 | 5825            | Ant1    | -36.14          | -27         | Pass    |



Tx. Spurious NVNT a 5745MHz Ant1 Emission



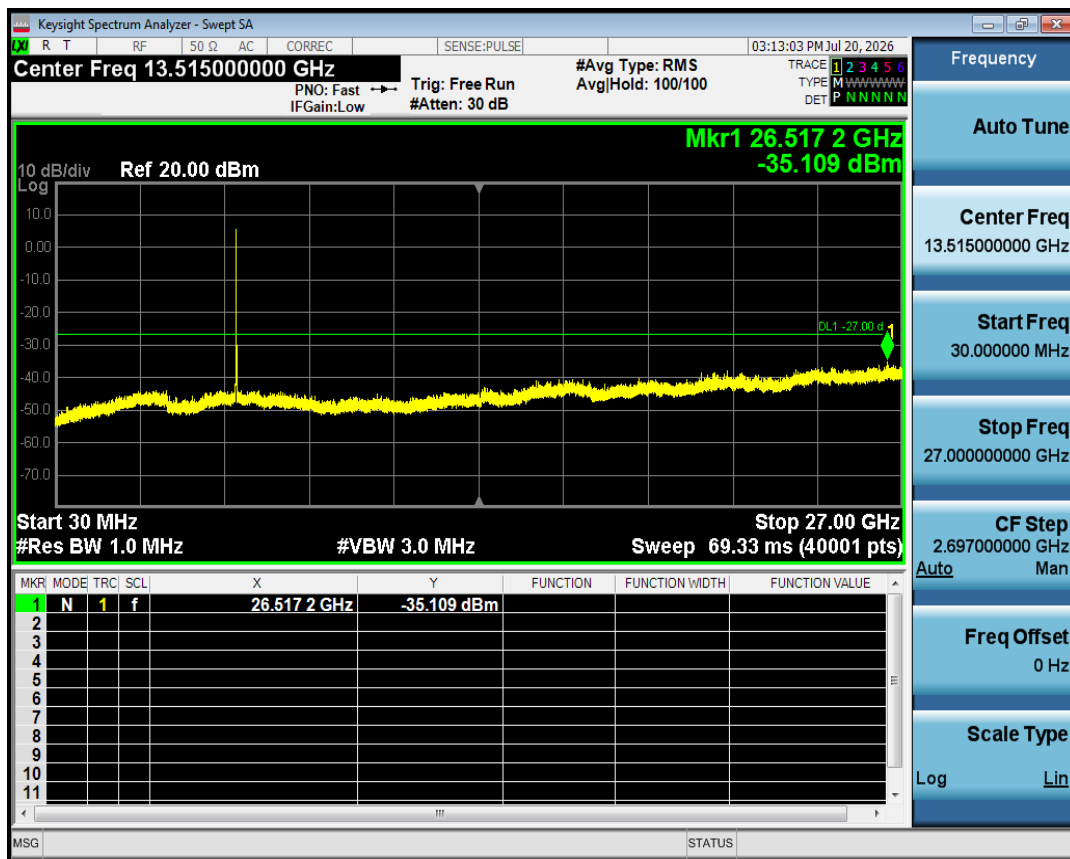
Tx. Spurious NVNT a 5785MHz Ant1 Emission



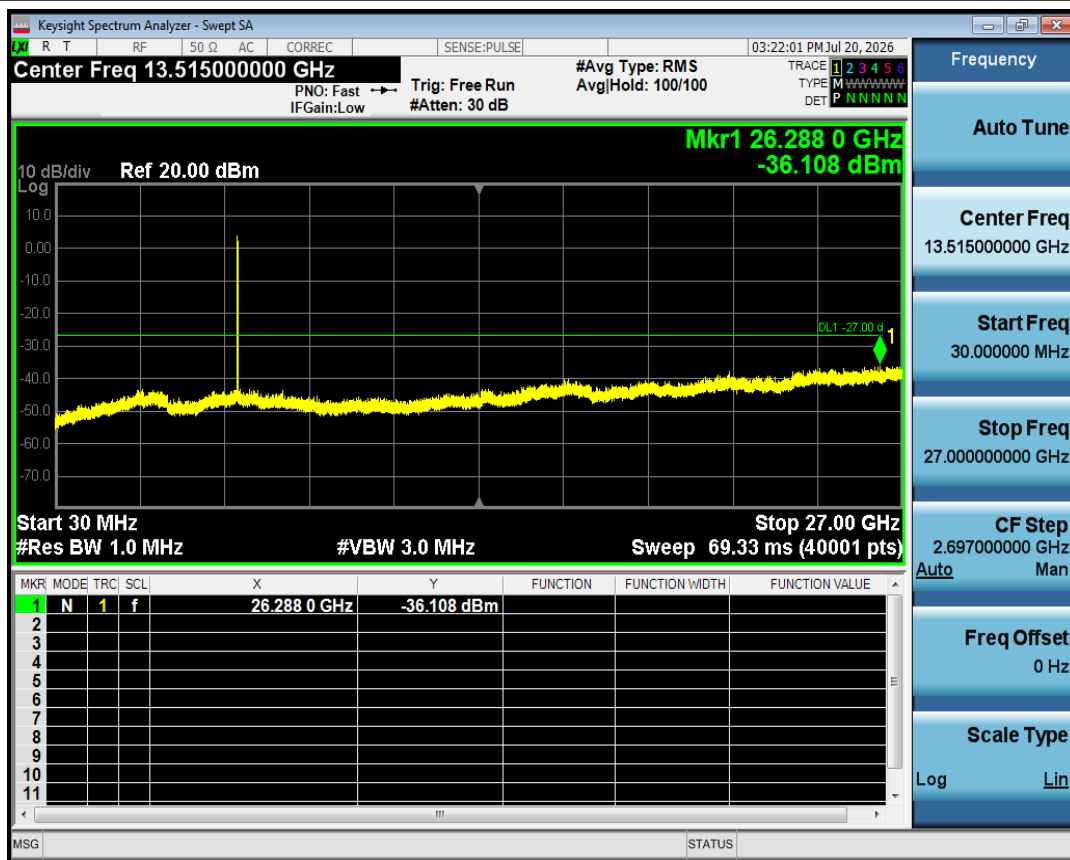
Tx. Spurious NVNT a 5825MHz Ant1 Emission



Tx. Spurious NVNT n20 5745MHz Ant1 Emission



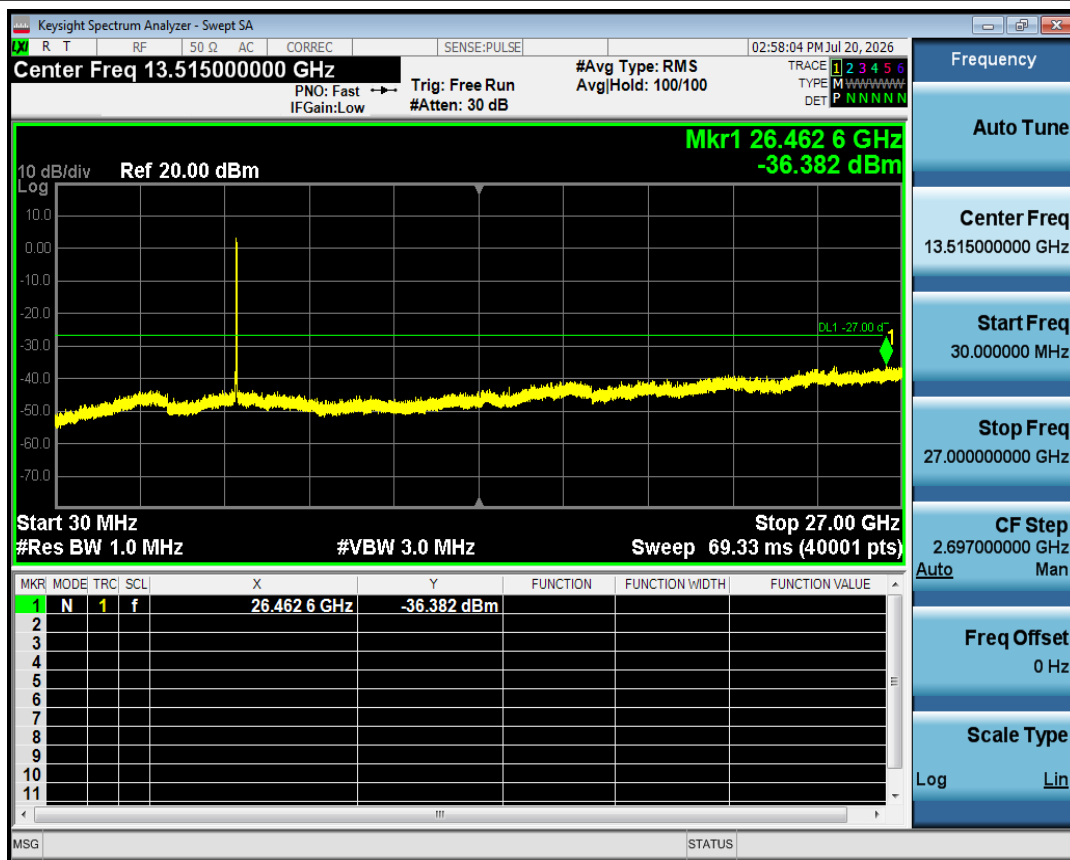
Tx. Spurious NVNT n20 5785MHz Ant1 Emission



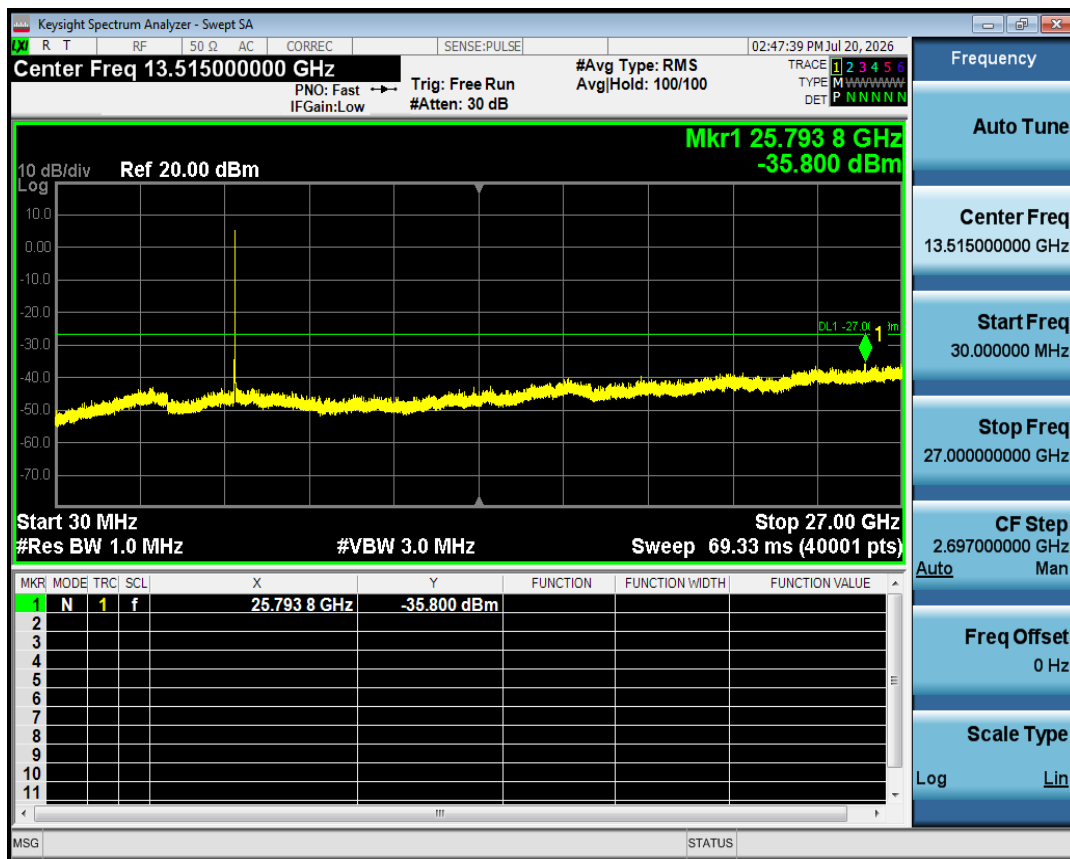
Tx. Spurious NVNT n20 5825MHz Ant1 Emission



Tx. Spurious NVNT n40 5755MHz Ant1 Emission



Tx. Spurious NVNT n40 5795MHz Ant1 Emission



Tx. Spurious NVNT ac20 5745MHz Ant1 Emission



Tx. Spurious NVNT ac20 5785MHz Ant1 Emission

