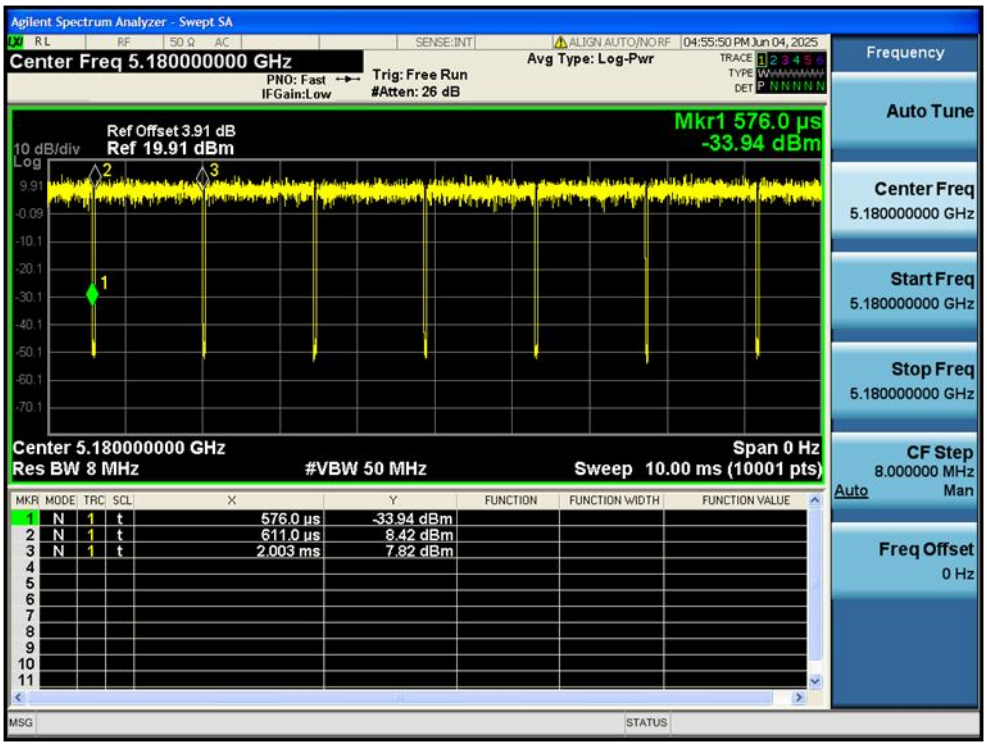
# Appendix A_5GWIFI-ANT1

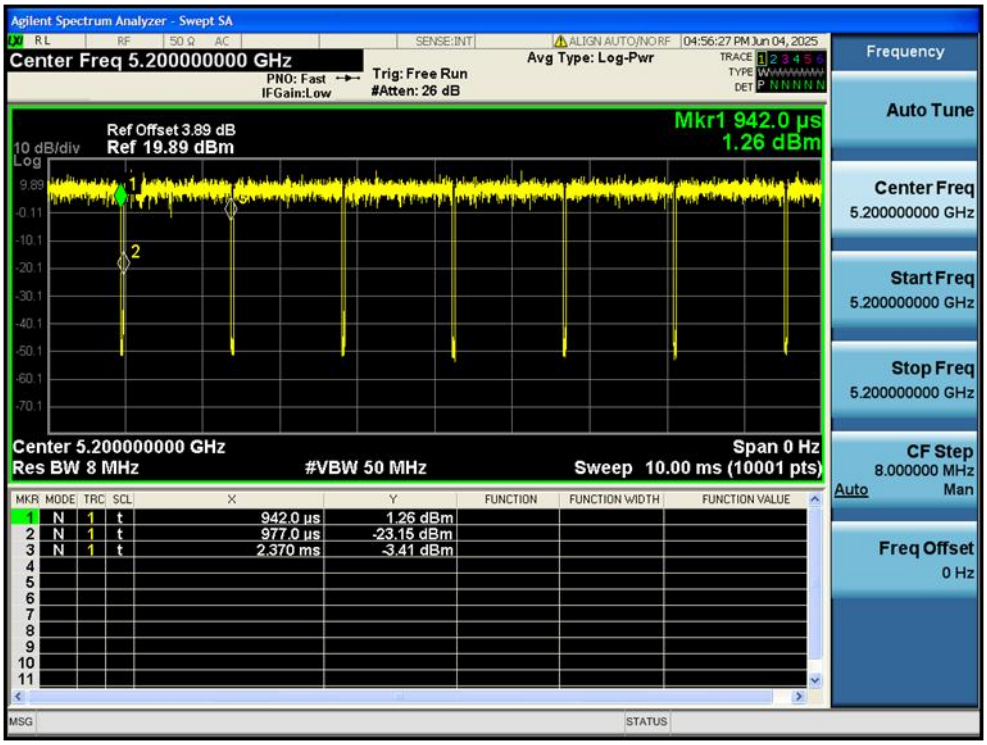
## Duty Cycle

| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|---|---|---|---|---|---|---|
| NVNT | a | 5180 | Ant1 | 97.55 | 0.11 | 0.72 |
| NVNT | a | 5200 | Ant1 | 97.55 | 0.11 | 0.72 |
| NVNT | a | 5240 | Ant1 | 97.48 | 0.11 | 0.72 |
| NVNT | a | 5745 | Ant1 | 97.55 | 0.11 | 0.72 |
| NVNT | a | 5785 | Ant1 | 97.48 | 0.11 | 0.72 |
| NVNT | a | 5825 | Ant1 | 97.48 | 0.11 | 0.72 |
| NVNT | n20 | 5180 | Ant1 | 100 | 0 | 0 |
| NVNT | n20 | 5200 | Ant1 | 100 | 0 | 0 |
| NVNT | n20 | 5240 | Ant1 | 100 | 0 | 0 |
| NVNT | n20 | 5745 | Ant1 | 100 | 0 | 0 |
| NVNT | n20 | 5785 | Ant1 | 100 | 0 | 0 |
| NVNT | n20 | 5825 | Ant1 | 100 | 0 | 0 |
| NVNT | n40 | 5190 | Ant1 | 100 | 0 | 0 |
| NVNT | n40 | 5230 | Ant1 | 100 | 0 | 0 |
| NVNT | n40 | 5755 | Ant1 | 100 | 0 | 0 |
| NVNT | n40 | 5795 | Ant1 | 100 | 0 | 0 |
| NVNT | ac20 | 5180 | Ant1 | 100 | 0 | 0 |
| NVNT | ac20 | 5200 | Ant1 | 100 | 0 | 0 |
| NVNT | ac20 | 5240 | Ant1 | 100 | 0 | 0 |
| NVNT | ac20 | 5745 | Ant1 | 100 | 0 | 0 |
| NVNT | ac20 | 5785 | Ant1 | 100 | 0 | 0 |
| NVNT | ac20 | 5825 | Ant1 | 100 | 0 | 0 |
| NVNT | ac40 | 5190 | Ant1 | 100 | 0 | 0 |
| NVNT | ac40 | 5230 | Ant1 | 100 | 0 | 0 |
| NVNT | ac40 | 5755 | Ant1 | 100 | 0 | 0 |
| NVNT | ac40 | 5795 | Ant1 | 100 | 0 | 0 |
| NVNT | ac80 | 5210 | Ant1 | 100 | 0 | 0 |
| NVNT | ac80 | 5775 | Ant1 | 100 | 0 | 0 |

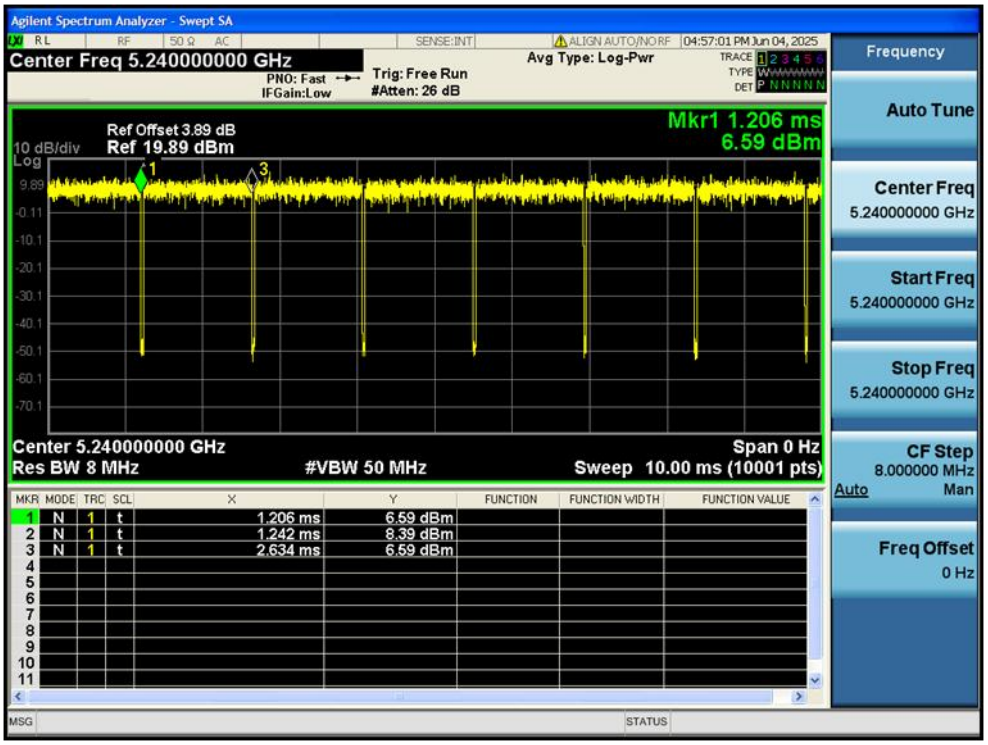
| Test Graphs |
| --- |
| Duty Cycle NVNT a 5180MHz Ant1 |



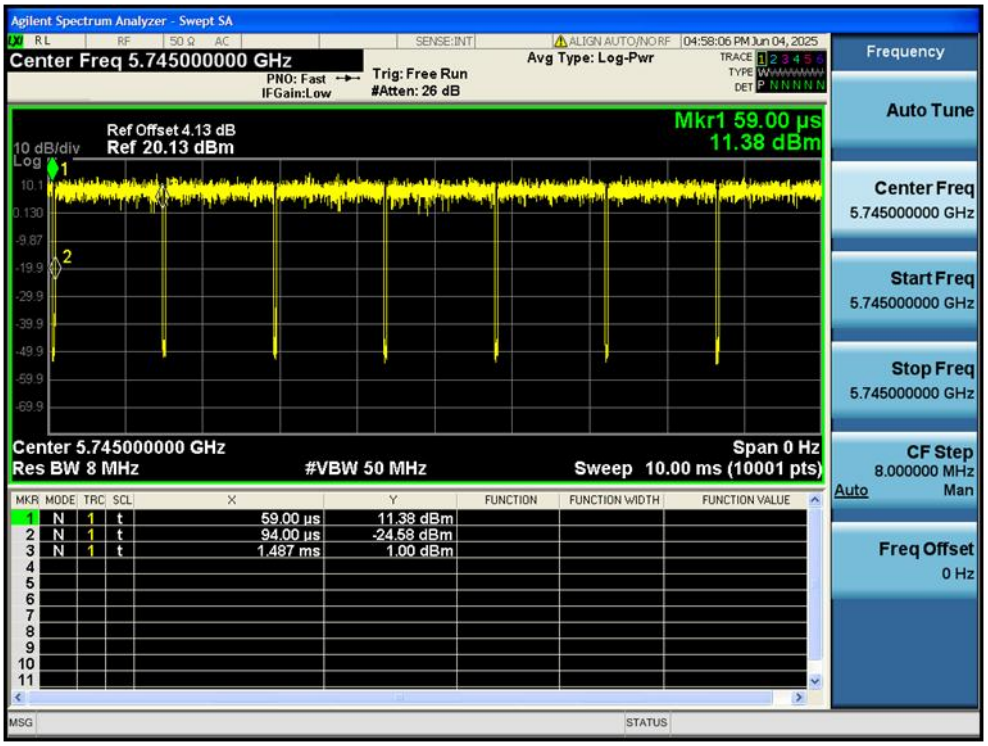

| Duty Cycle NVNT a 5200MHz Ant1 |
| --- |



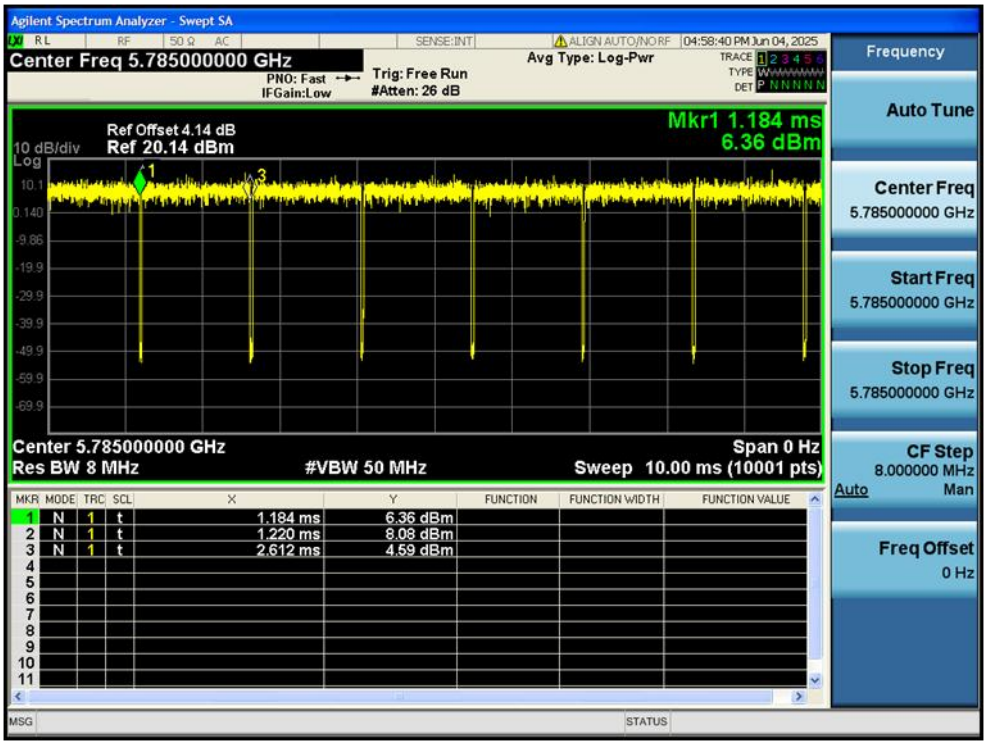
Duty Cycle NVNT a 5240MHz Ant1



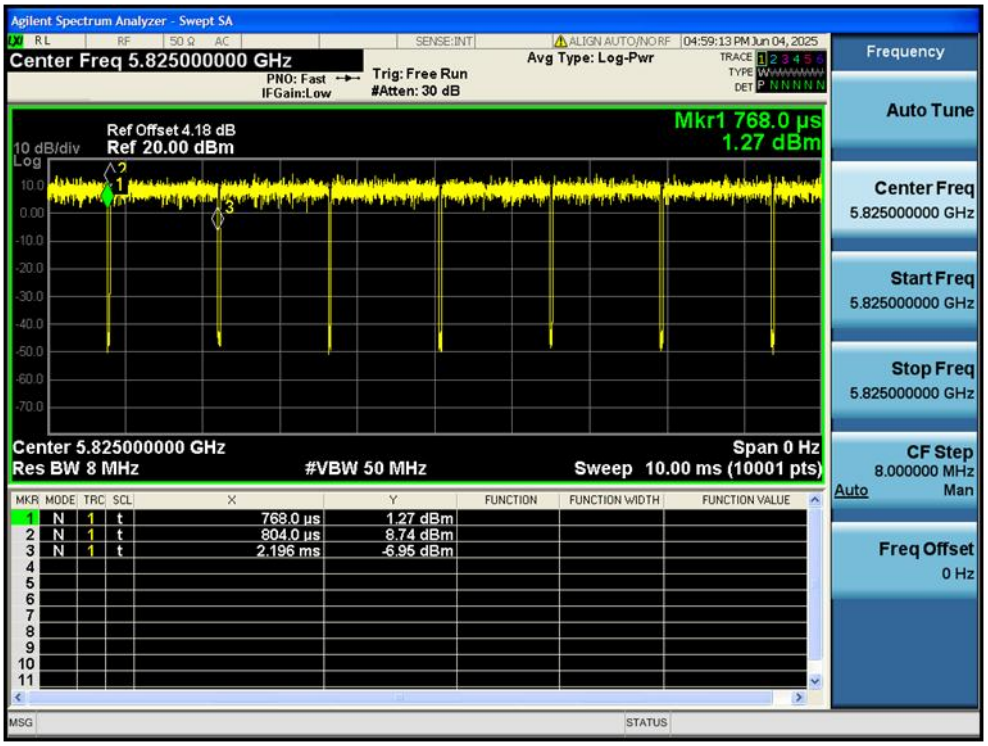

Duty Cycle NVNT a 5745MHz Ant1



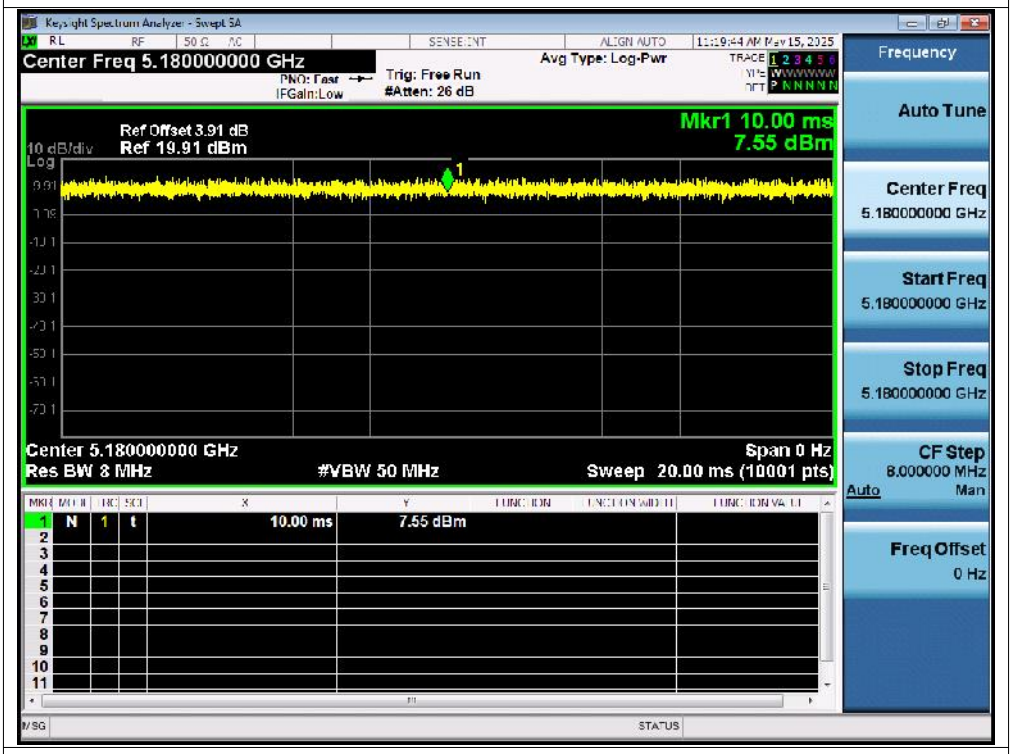
Duty Cycle NVNT a 5785MHz Ant1



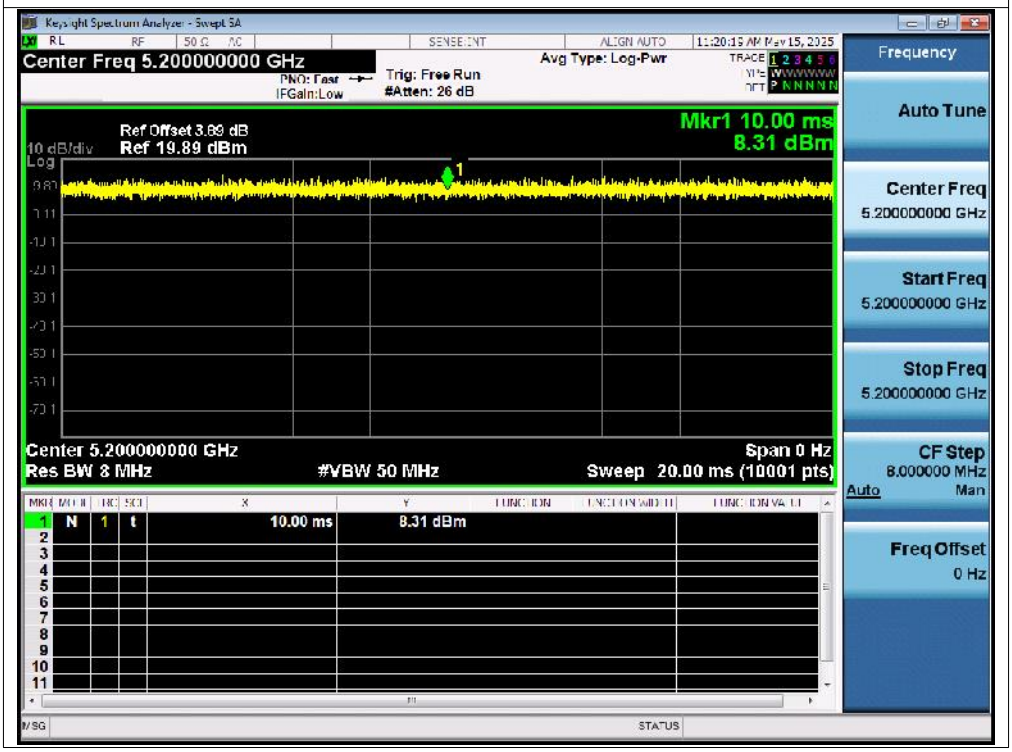

Duty Cycle NVNT a 5825MHz Ant1



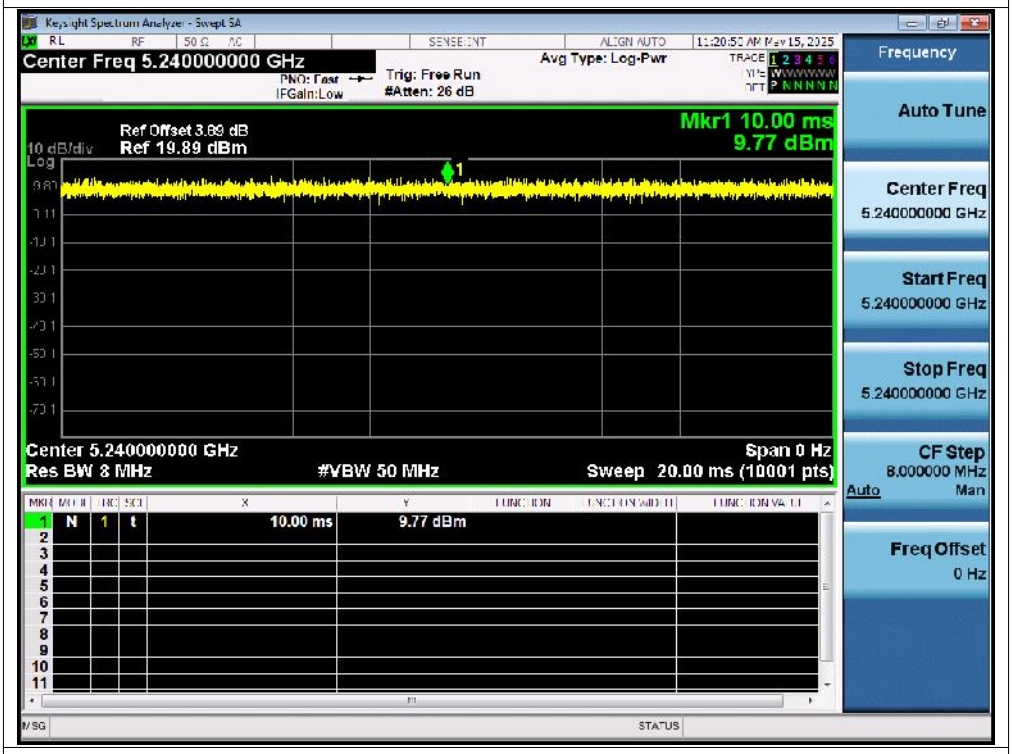
Duty Cycle NVNT n20 5180MHz Ant1



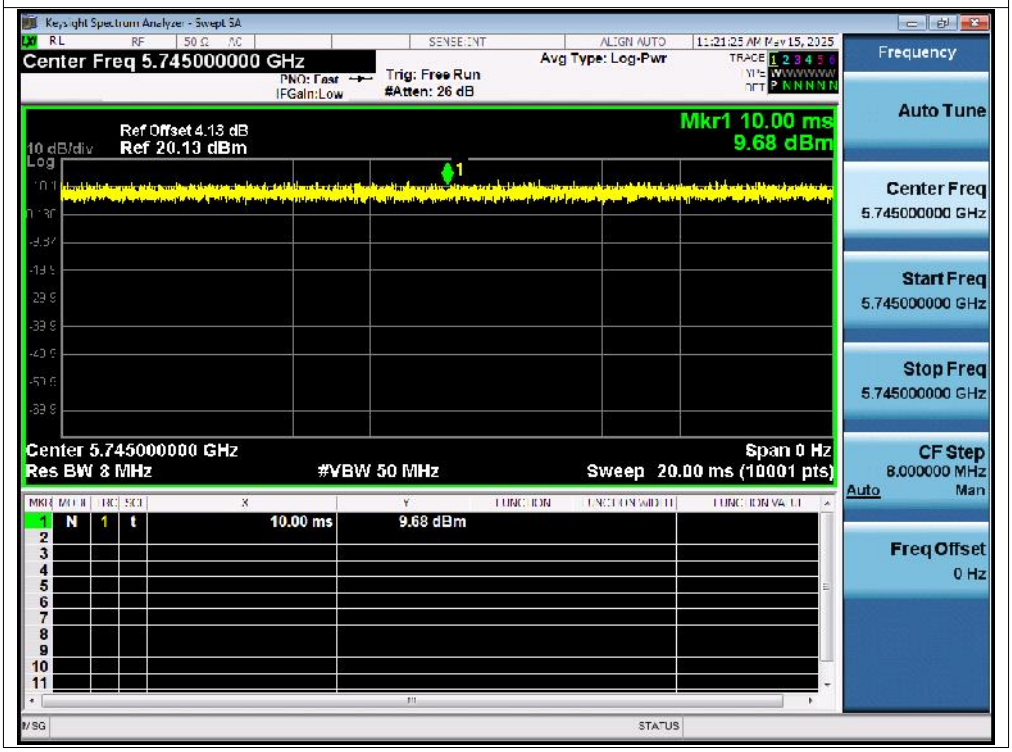

Duty Cycle NVNT n20 5200MHz Ant1



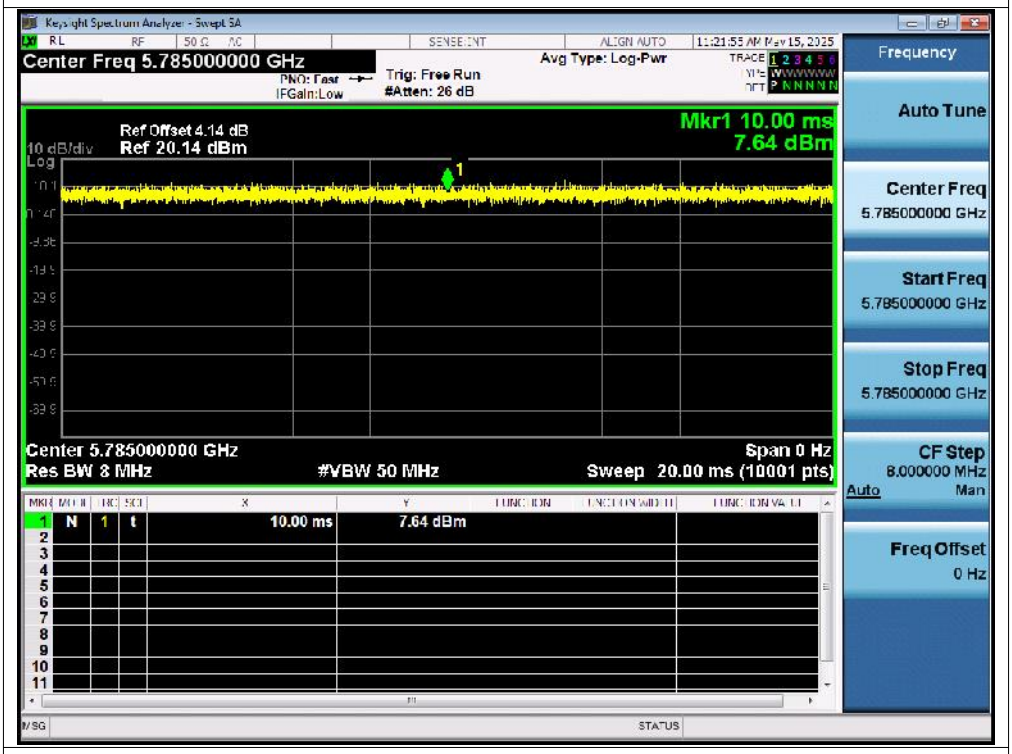
Duty Cycle NVNT n20 5240MHz Ant1



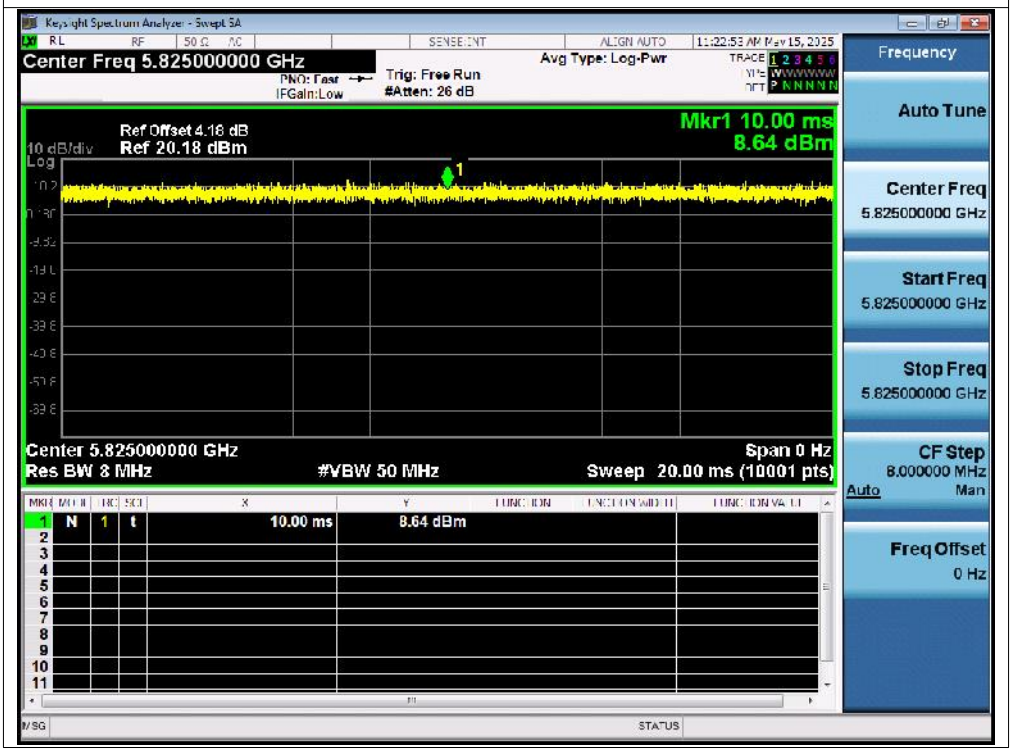

Duty Cycle NVNT n20 5745MHz Ant1



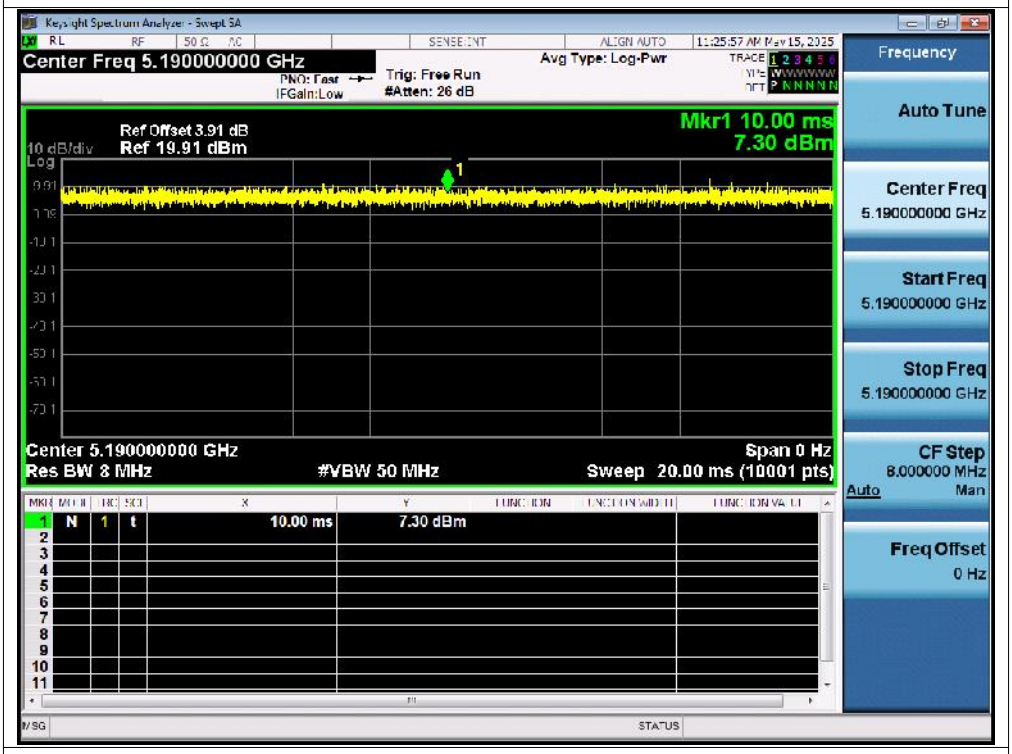
Duty Cycle NVNT n20 5785MHz Ant1



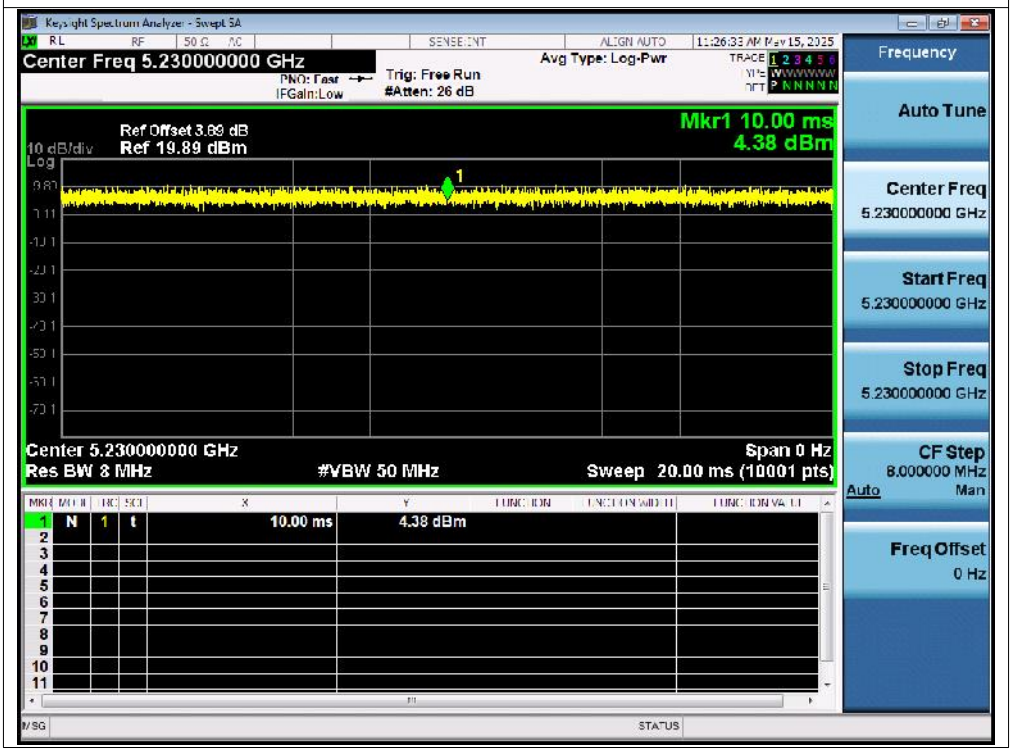

Duty Cycle NVNT n20 5825MHz Ant1



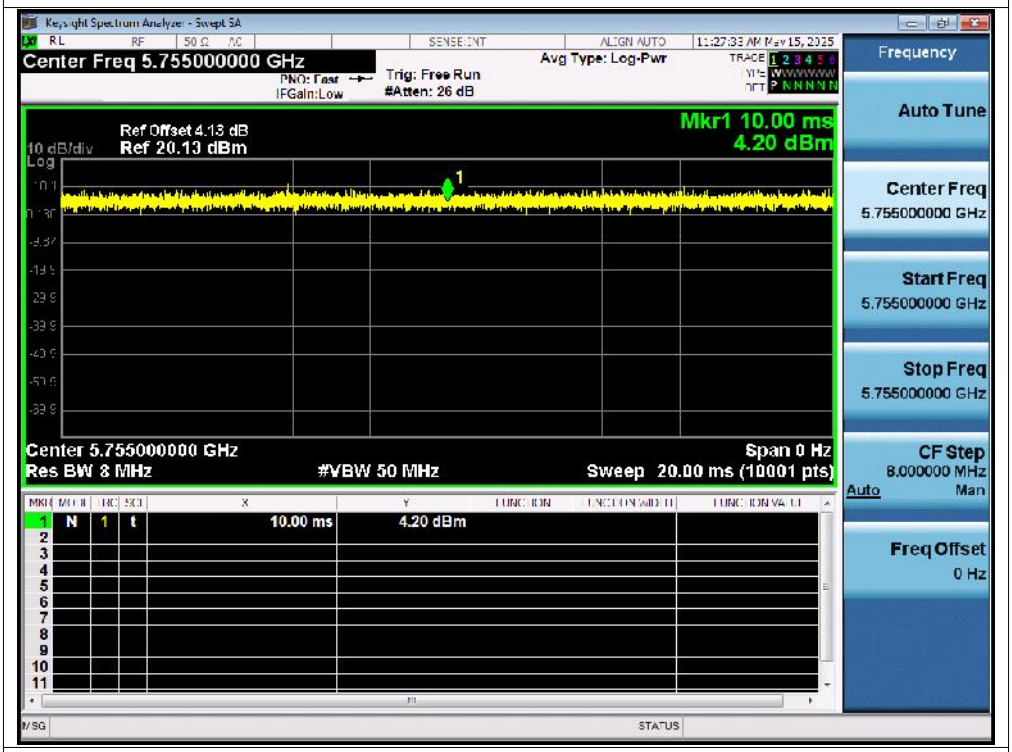
Duty Cycle NVNT n40 5190MHz Ant1



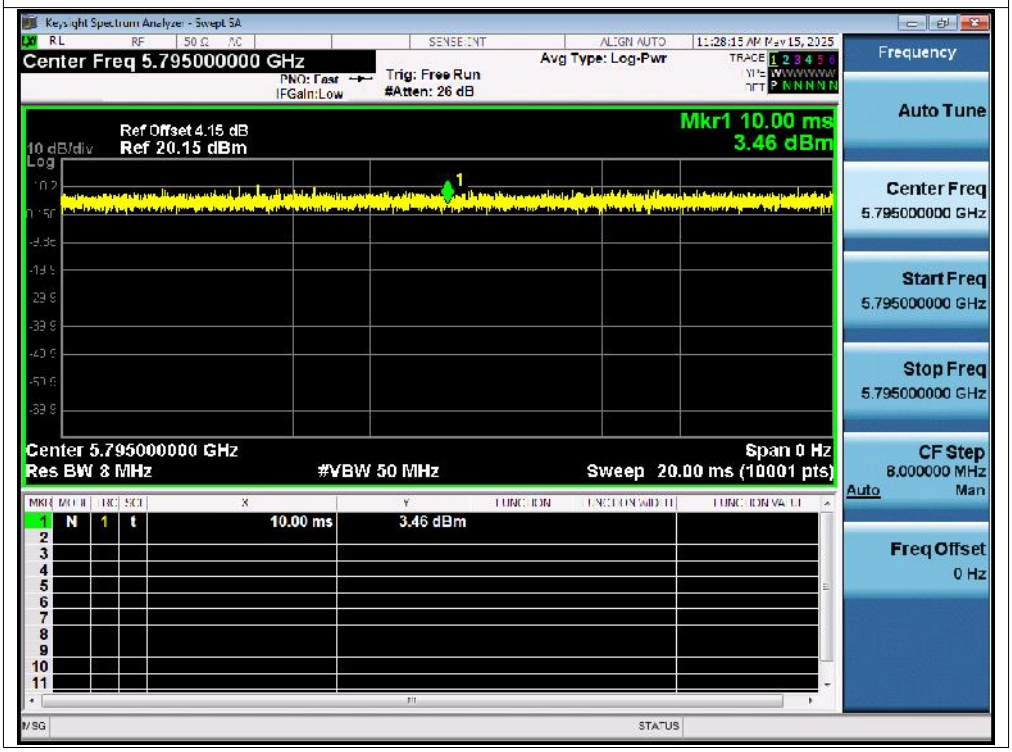

Duty Cycle NVNT n40 5230MHz Ant1



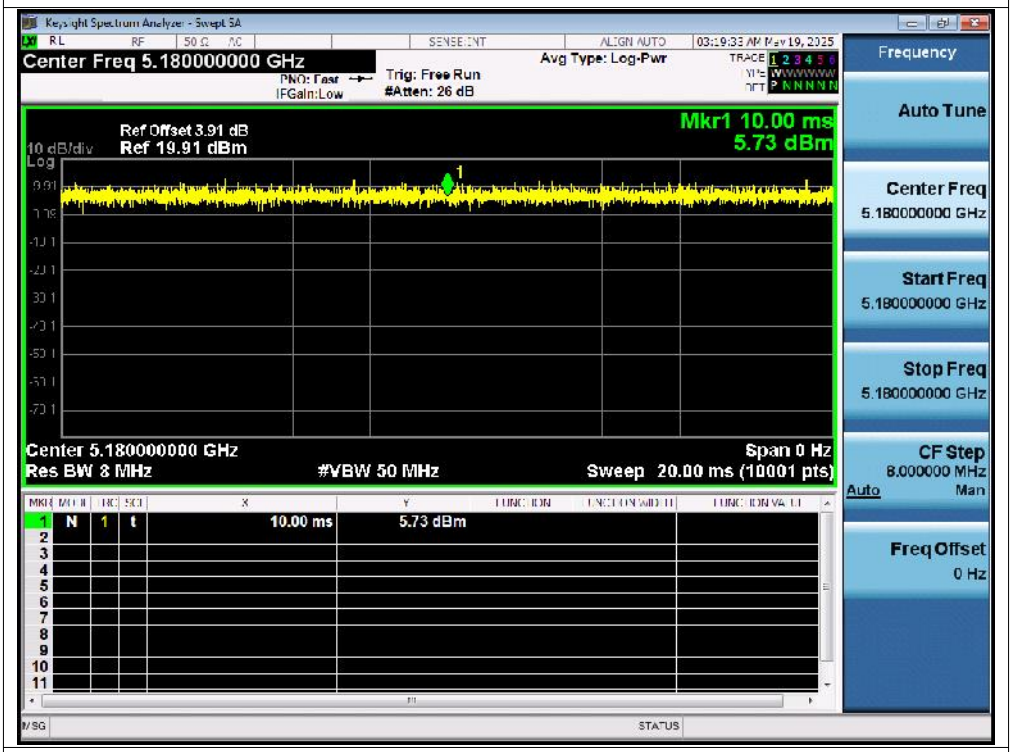
Duty Cycle NVNT n40 5755MHz Ant1



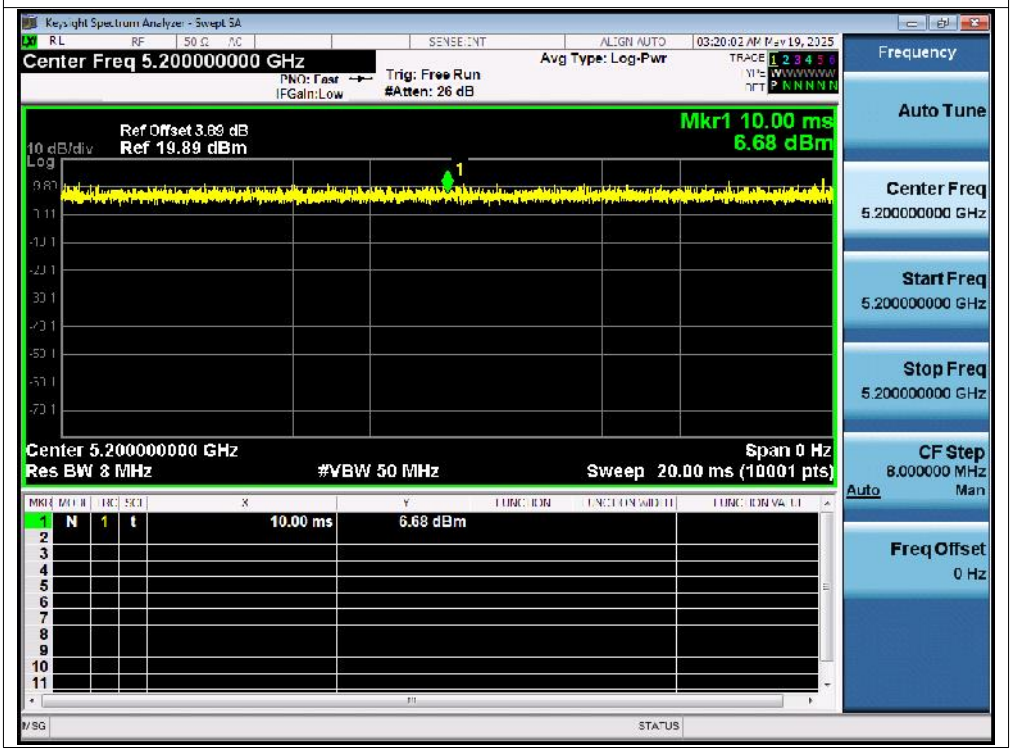

Duty Cycle NVNT n40 5795MHz Ant1



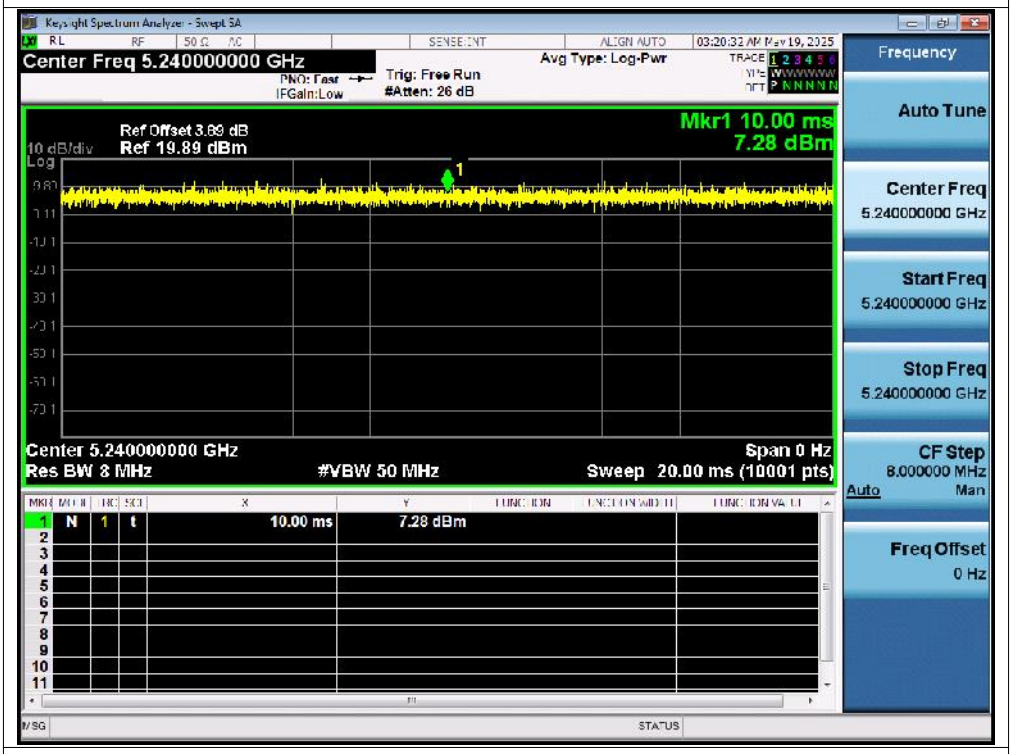
Duty Cycle NVNT ac20 5180MHz Ant1



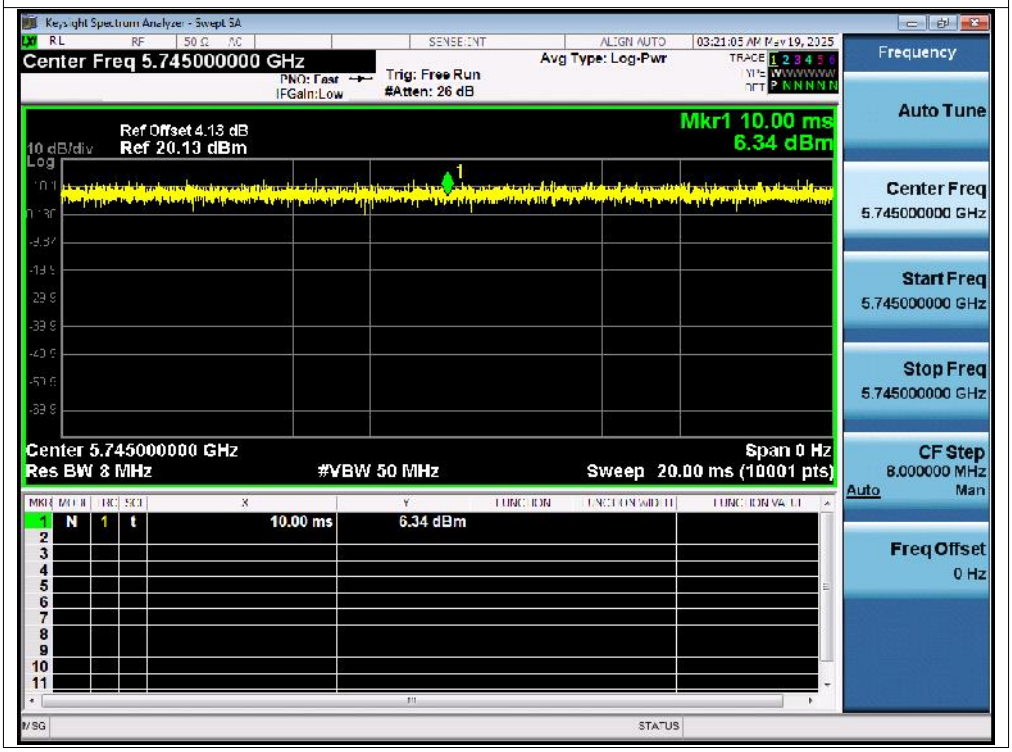

Duty Cycle NVNT ac20 5200MHz Ant1



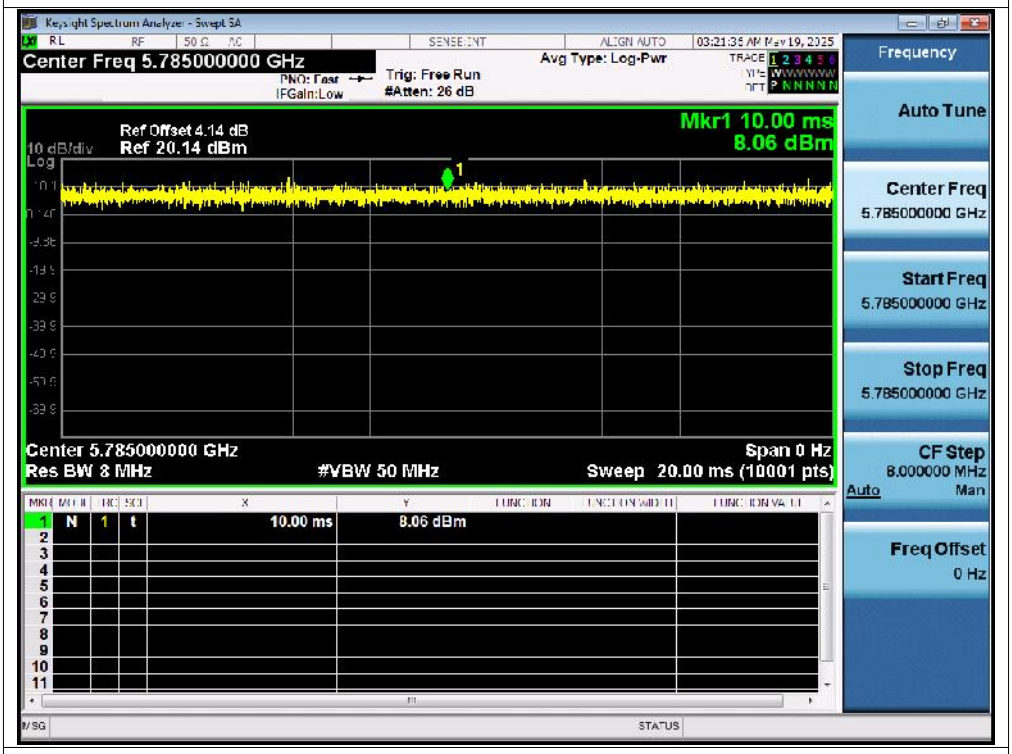
Duty Cycle NVNT ac20 5240MHz Ant1



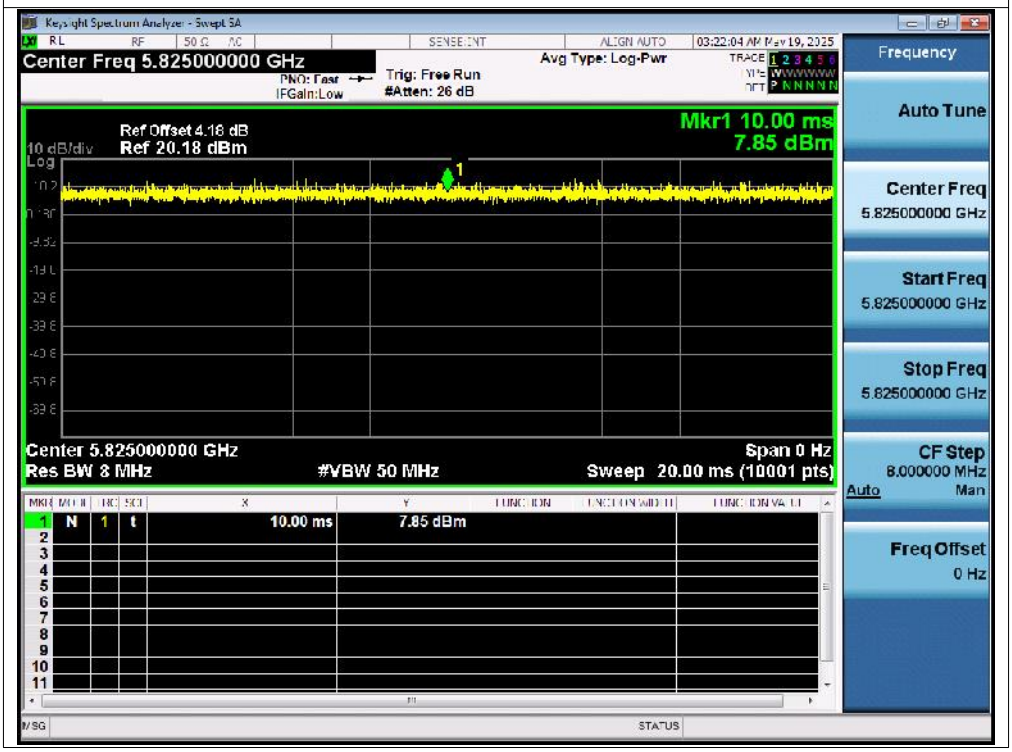

Duty Cycle NVNT ac20 5745MHz Ant1



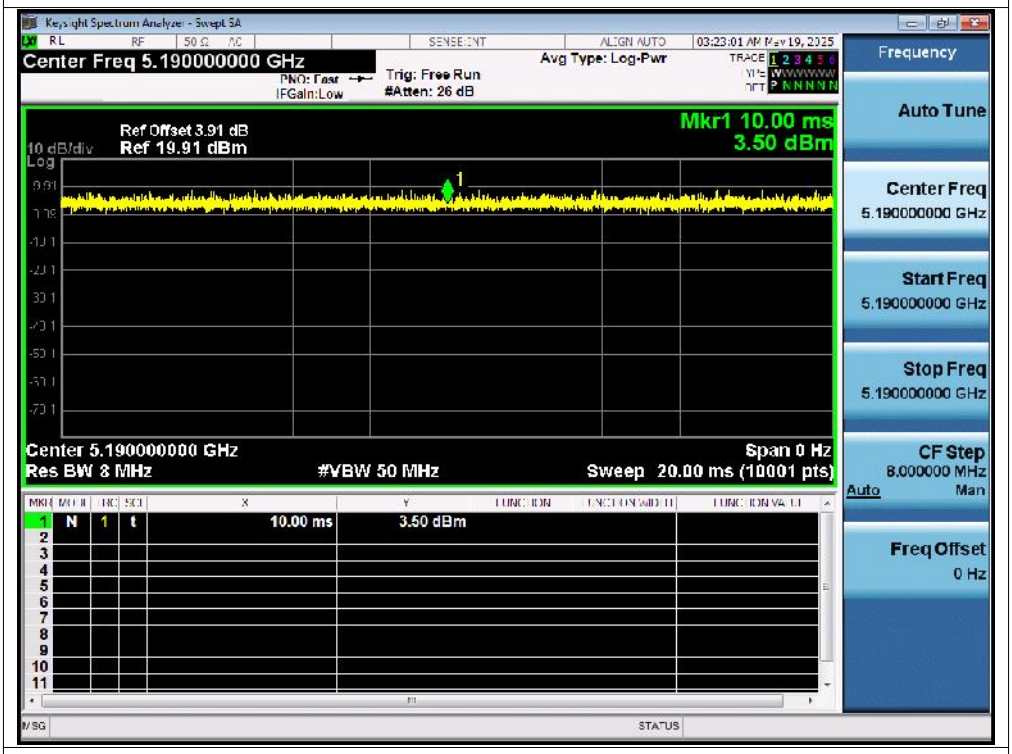
Duty Cycle NVNT ac20 5785MHz Ant1



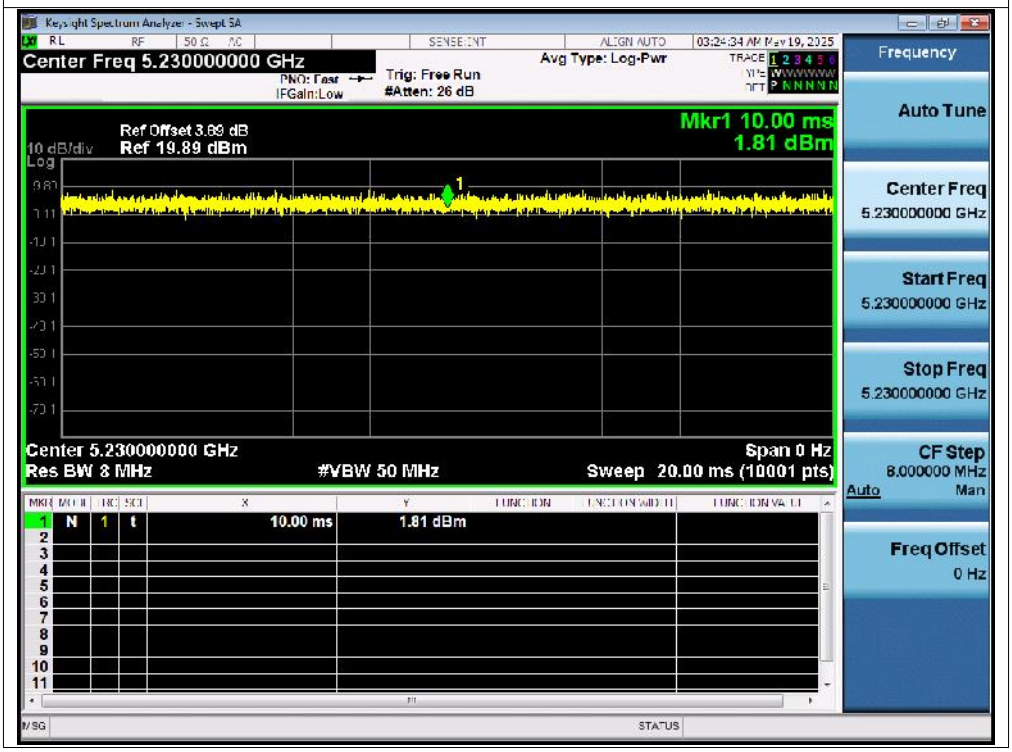

Duty Cycle NVNT ac20 5825MHz Ant1



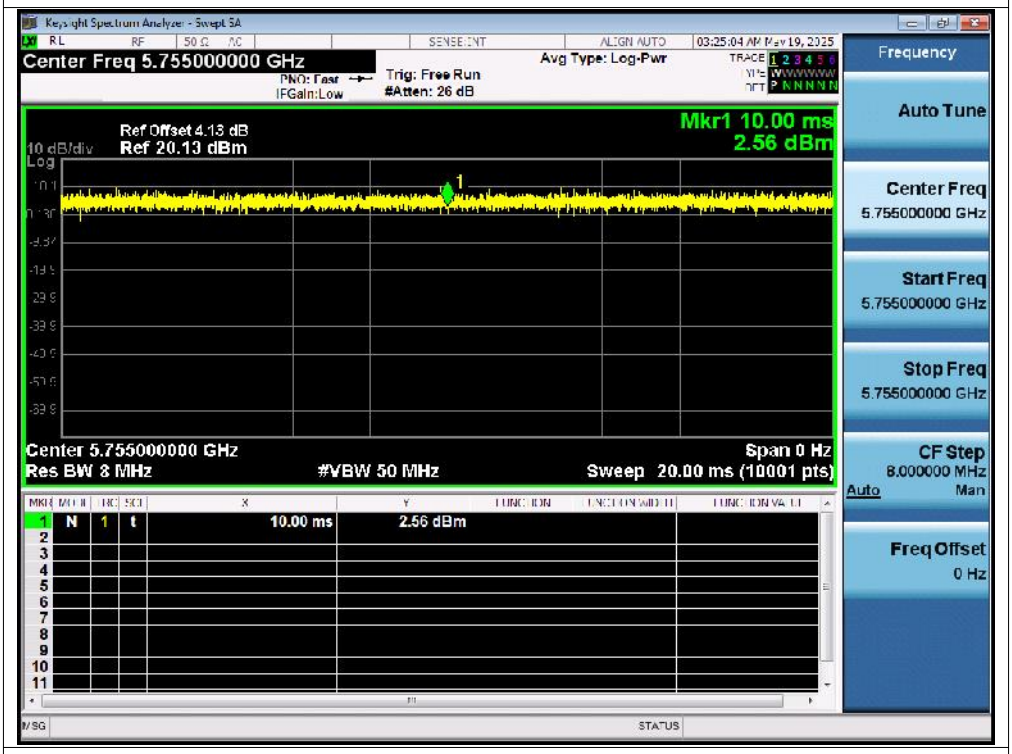
Duty Cycle NVNT ac40 5190MHz Ant1



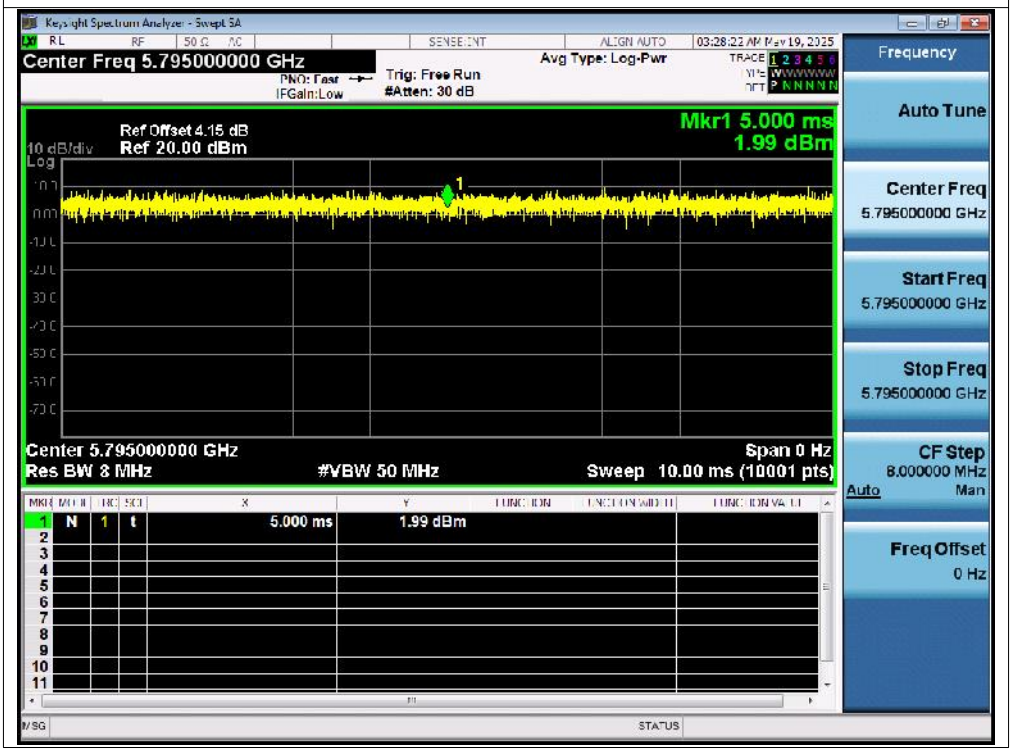

Duty Cycle NVNT ac40 5230MHz Ant1



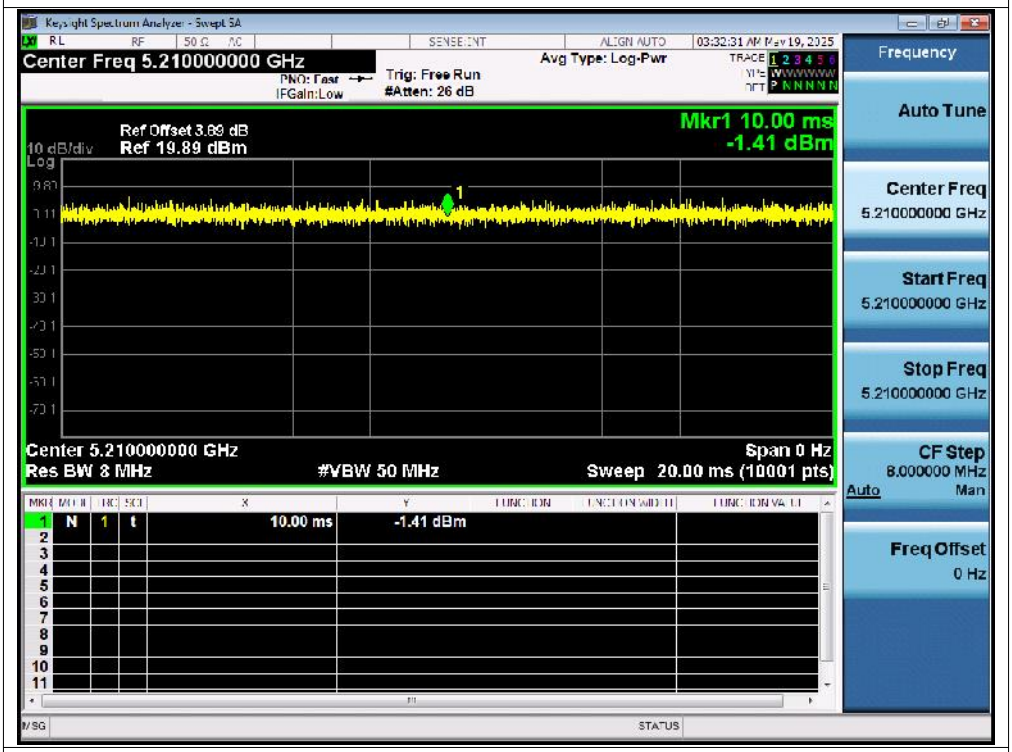
Duty Cycle NVNT ac40 5755MHz Ant1



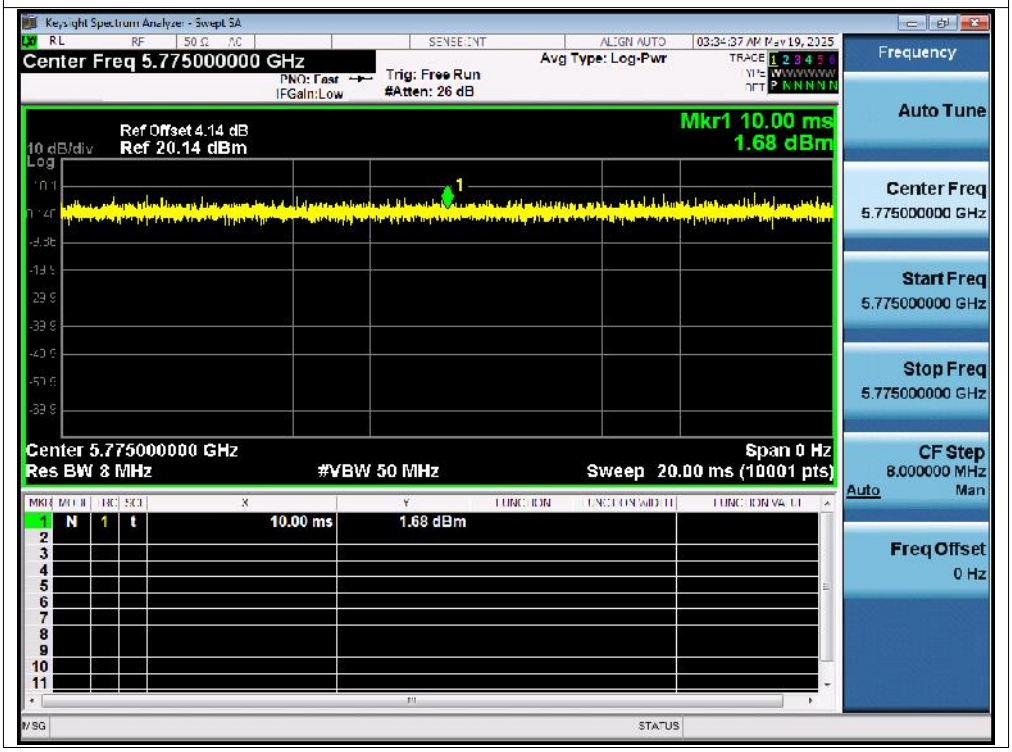

Duty Cycle NVNT ac40 5795MHz Ant1



Duty Cycle NVNT ac80 5210MHz Ant1



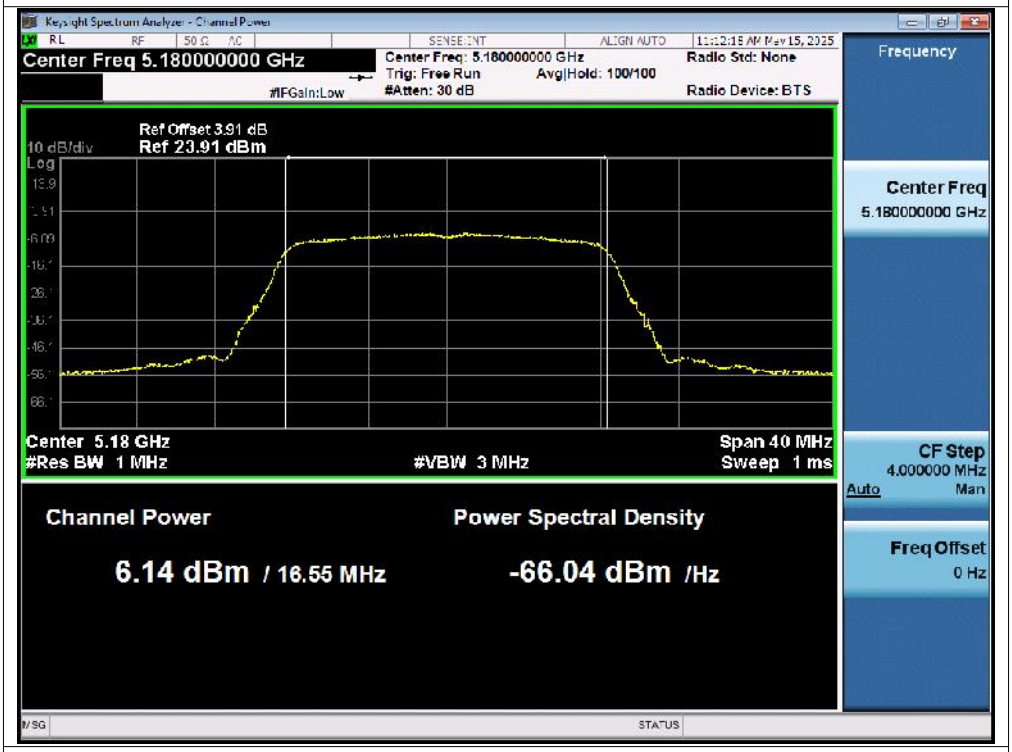

Duty Cycle NVNT ac80 5775MHz Ant1



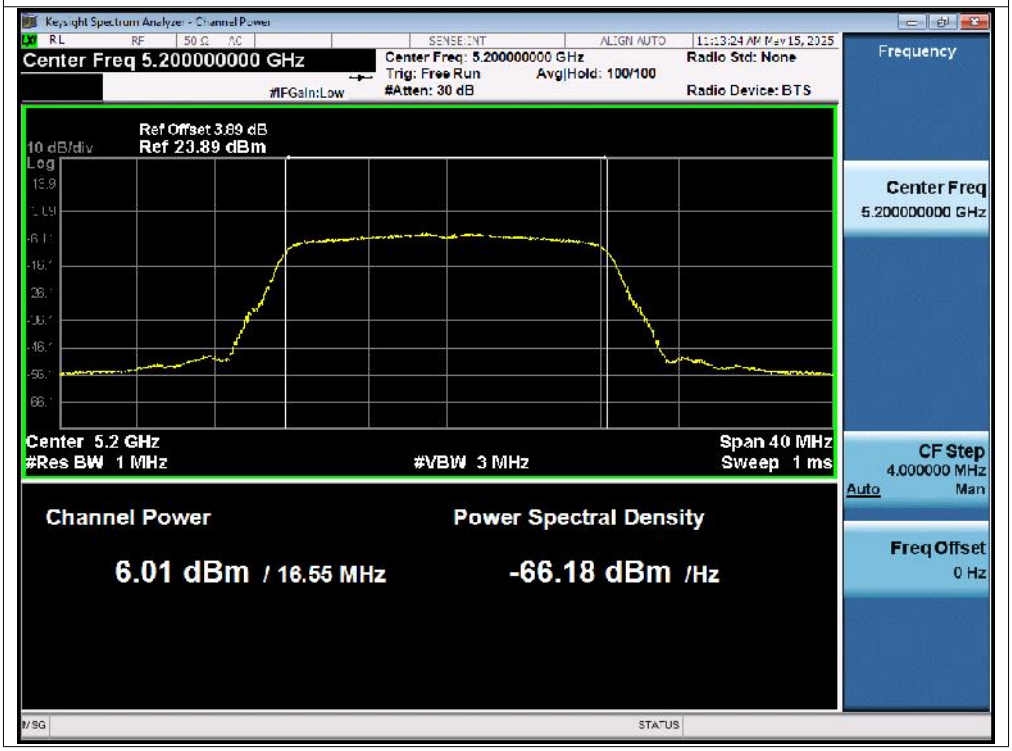
# Maximum Conducted Output Power

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Duty Factor (dB) | Total Power (dBm) | Limit (dBm) | Verdict |
|---|---|---|---|---|---|---|---|---|
| NVNT | a | 5180 | Ant1 | 6.14 | 0.11 | 6.25 | 24 | Pass |
| NVNT | a | 5200 | Ant1 | 6.01 | 0.11 | 6.12 | 24 | Pass |
| NVNT | a | 5240 | Ant1 | 5.82 | 0.11 | 5.93 | 24 | Pass |
| NVNT | a | 5745 | Ant1 | 4.82 | 0.11 | 4.93 | 30 | Pass |
| NVNT | a | 5785 | Ant1 | 4.29 | 0.11 | 4.4 | 30 | Pass |
| NVNT | a | 5825 | Ant1 | 4.77 | 0.11 | 4.88 | 30 | Pass |
| NVNT | n20 | 5180 | Ant1 | 5.75 | 0 | 5.75 | 24 | Pass |
| NVNT | n20 | 5200 | Ant1 | 5.65 | 0 | 5.65 | 24 | Pass |
| NVNT | n20 | 5240 | Ant1 | 5.71 | 0 | 5.71 | 24 | Pass |
| NVNT | n20 | 5745 | Ant1 | 4.6 | 0 | 4.6 | 30 | Pass |
| NVNT | n20 | 5785 | Ant1 | 4.11 | 0 | 4.11 | 30 | Pass |
| NVNT | n20 | 5825 | Ant1 | 4.62 | 0 | 4.62 | 30 | Pass |
| NVNT | n40 | 5190 | Ant1 | 6.08 | 0 | 6.08 | 24 | Pass |
| NVNT | n40 | 5230 | Ant1 | 5.87 | 0 | 5.87 | 24 | Pass |
| NVNT | n40 | 5755 | Ant1 | 4.8 | 0 | 4.8 | 30 | Pass |
| NVNT | n40 | 5795 | Ant1 | 4.51 | 0 | 4.51 | 30 | Pass |
| NVNT | ac20 | 5180 | Ant1 | 3.74 | 0 | 3.74 | 24 | Pass |
| NVNT | ac20 | 5200 | Ant1 | 3.47 | 0 | 3.47 | 24 | Pass |
| NVNT | ac20 | 5240 | Ant1 | 3.48 | 0 | 3.48 | 24 | Pass |
| NVNT | ac20 | 5745 | Ant1 | 4.46 | 0 | 4.46 | 30 | Pass |
| NVNT | ac20 | 5785 | Ant1 | 4.19 | 0 | 4.19 | 30 | Pass |
| NVNT | ac20 | 5825 | Ant1 | 4.26 | 0 | 4.26 | 30 | Pass |
| NVNT | ac40 | 5190 | Ant1 | 3.76 | 0 | 3.76 | 24 | Pass |
| NVNT | ac40 | 5230 | Ant1 | 3.47 | 0 | 3.47 | 24 | Pass |
| NVNT | ac40 | 5755 | Ant1 | 4.51 | 0 | 4.51 | 30 | Pass |
| NVNT | ac40 | 5795 | Ant1 | 4.32 | 0 | 4.32 | 30 | Pass |
| NVNT | ac80 | 5210 | Ant1 | 3.49 | 0 | 3.49 | 24 | Pass |
| NVNT | ac80 | 5775 | Ant1 | 4.31 | 0 | 4.31 | 30 | Pass |

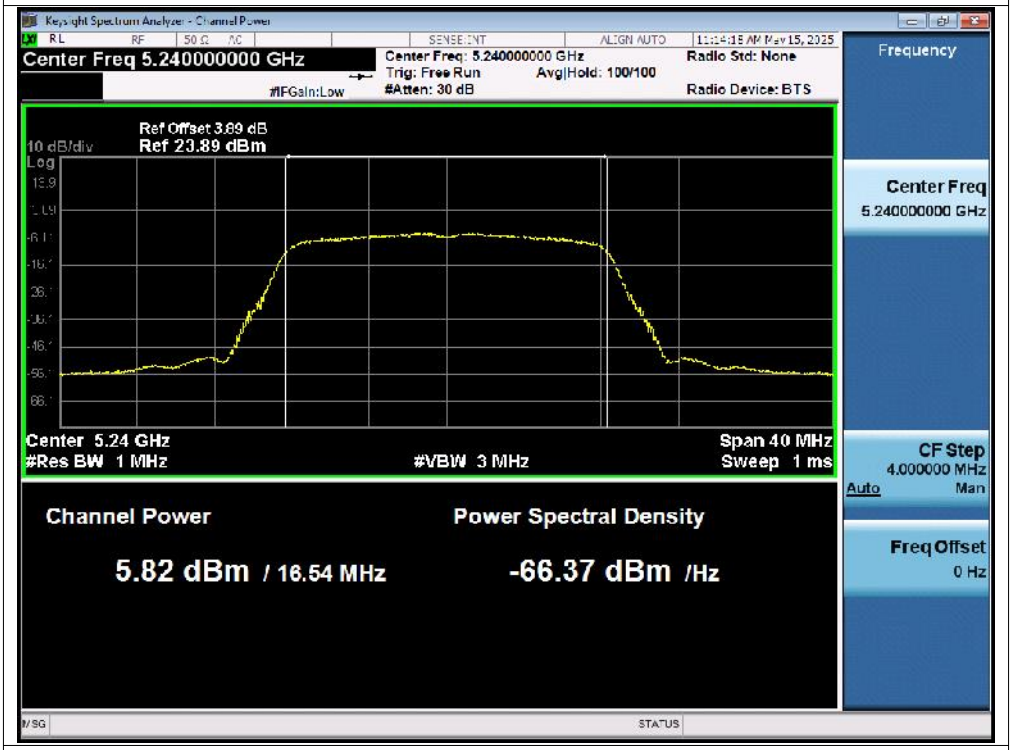
| Test Graphs |
| --- |
| Power NVNT a 5180MHz Ant1 |



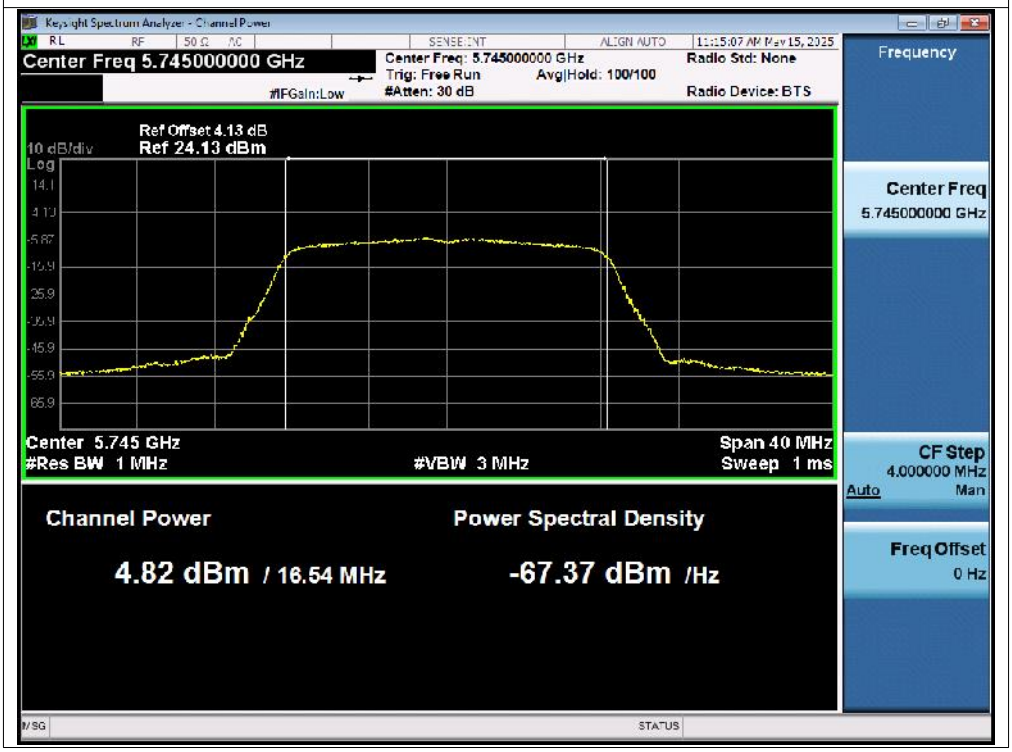

| Power NVNT a 5200MHz Ant1 |
| --- |



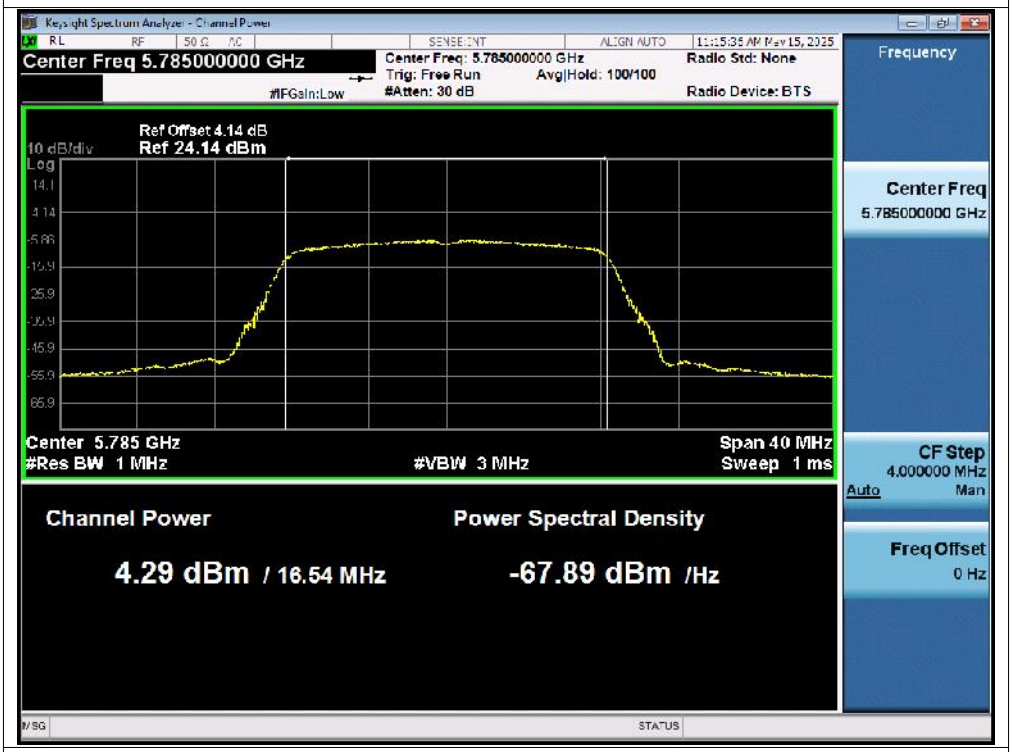
Power NVNT a 5240MHz Ant1



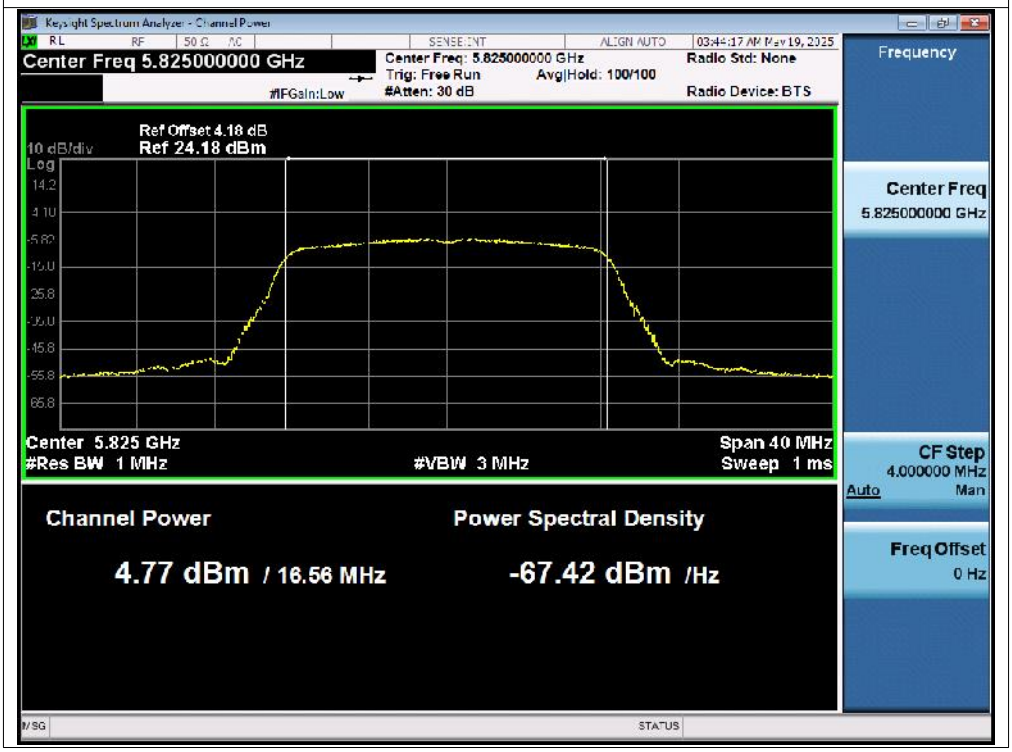

Power NVNT a 5745MHz Ant1



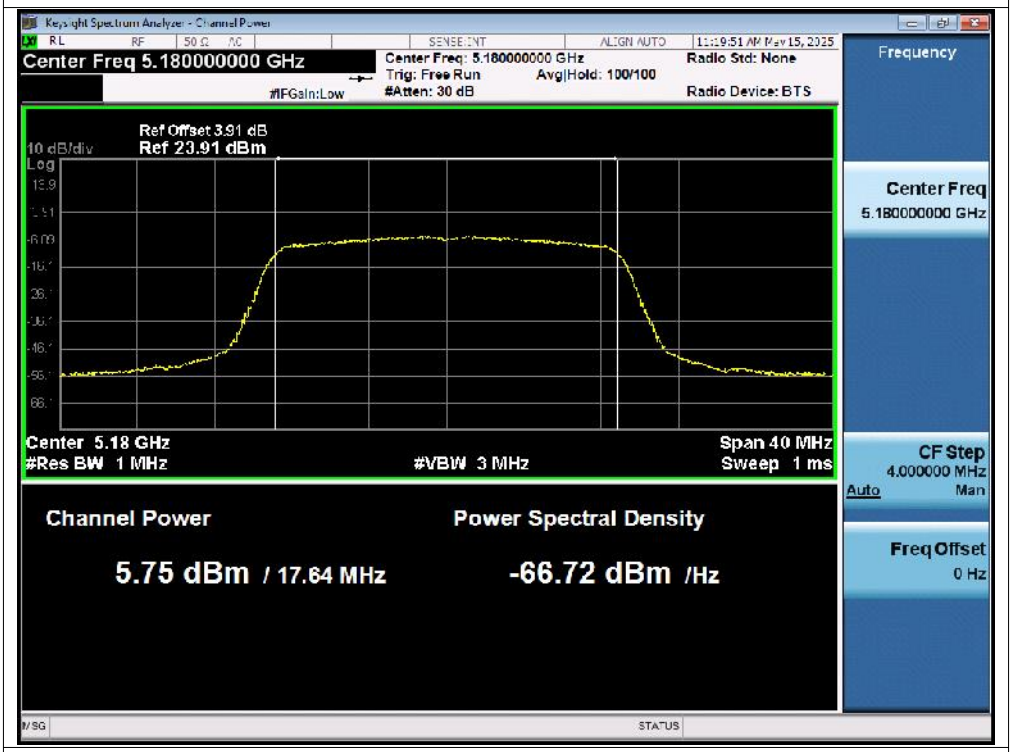
Power NVNT a 5785MHz Ant1



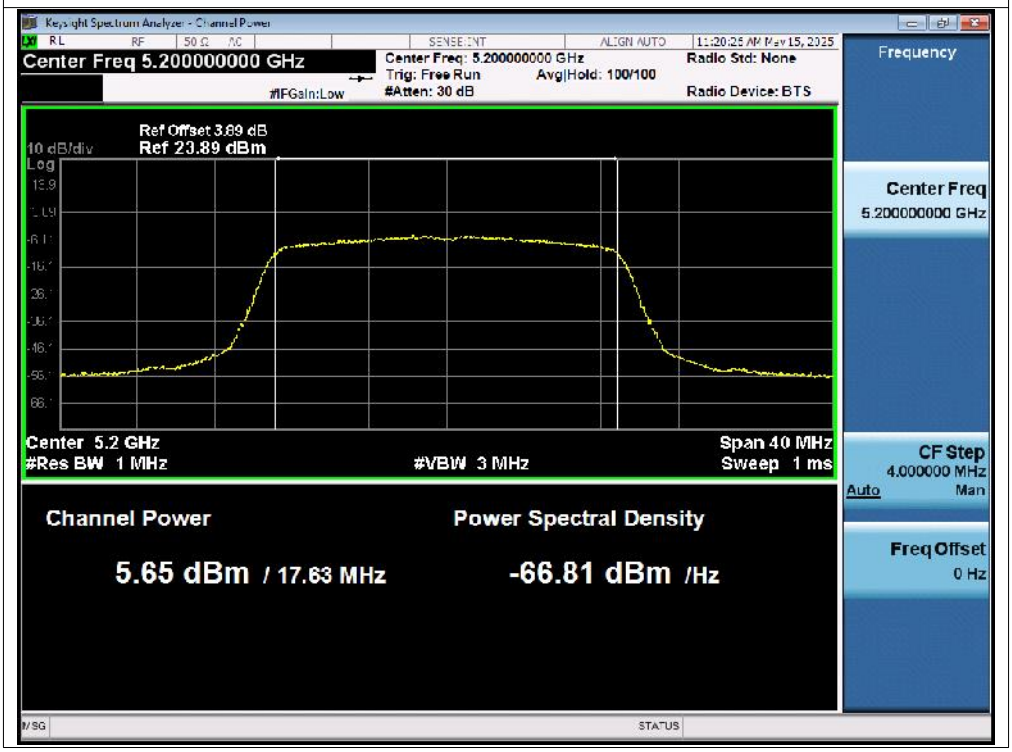

Power NVNT a 5825MHz Ant1



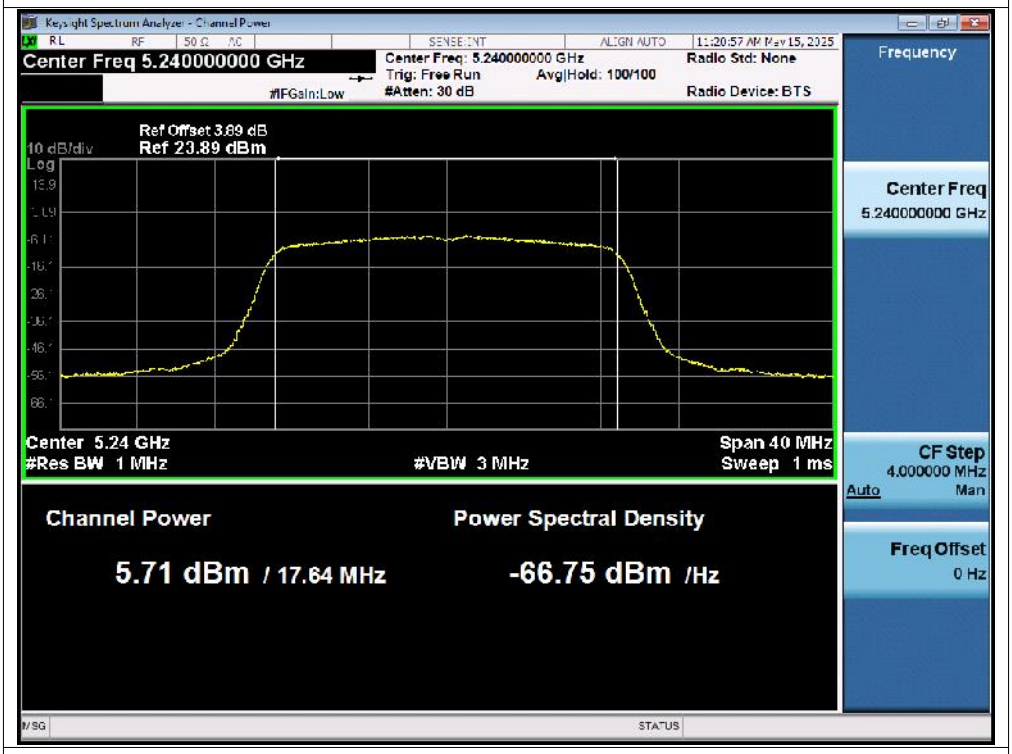
Power NVNT n20 5180MHz Ant1



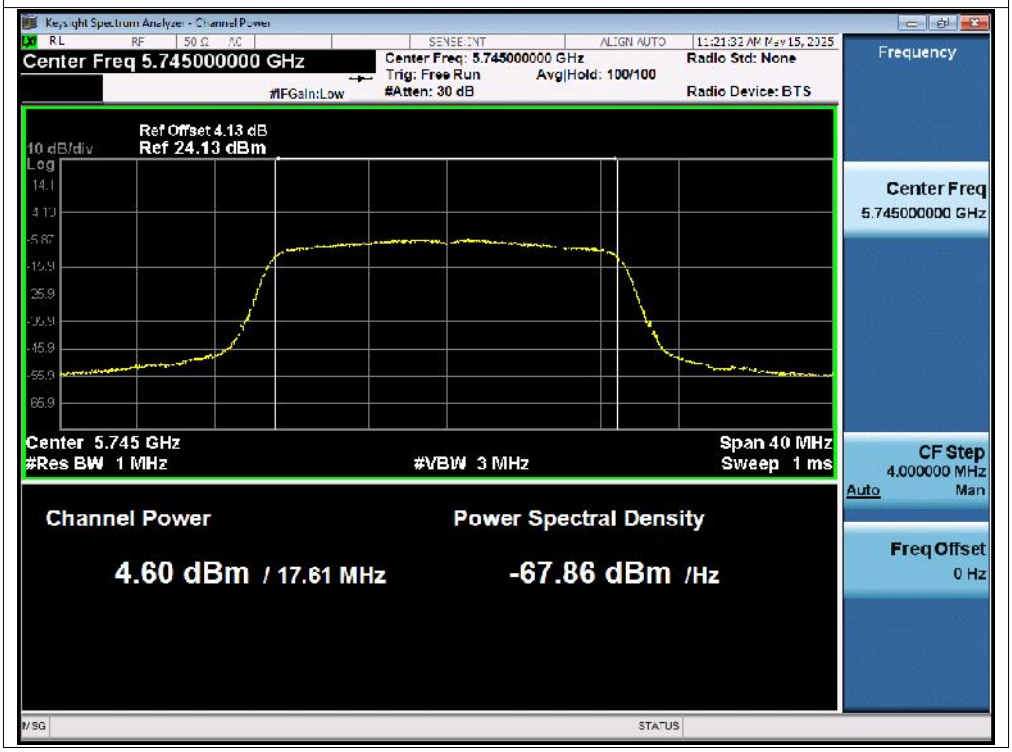

Power NVNT n20 5200MHz Ant1



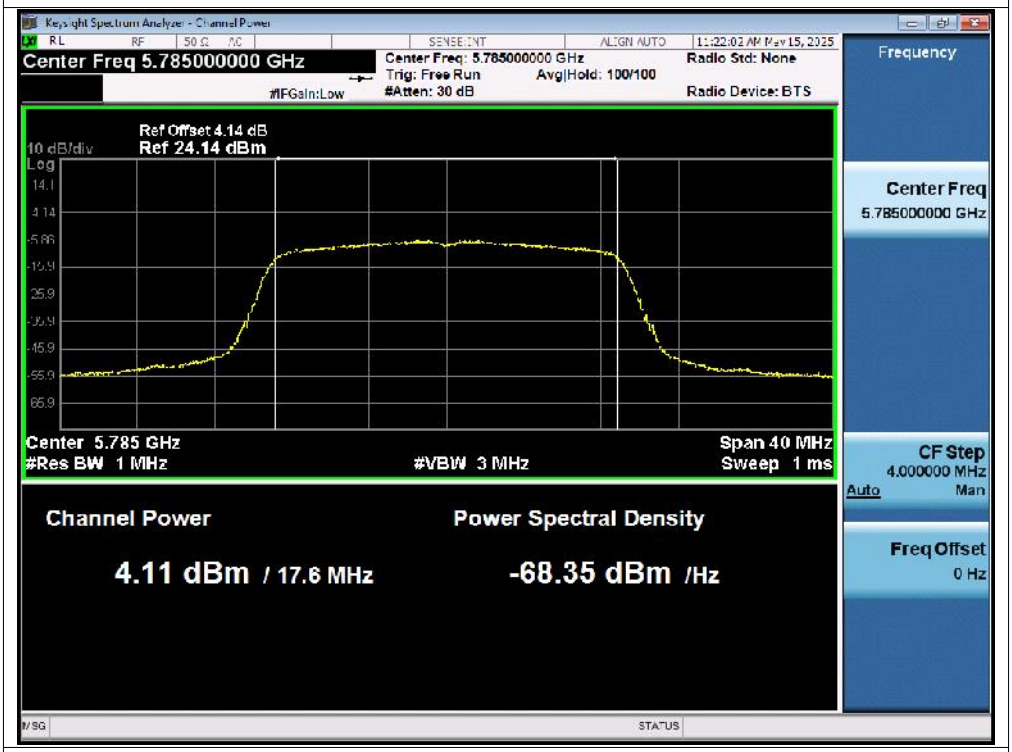
Power NVNT n20 5240MHz Ant1



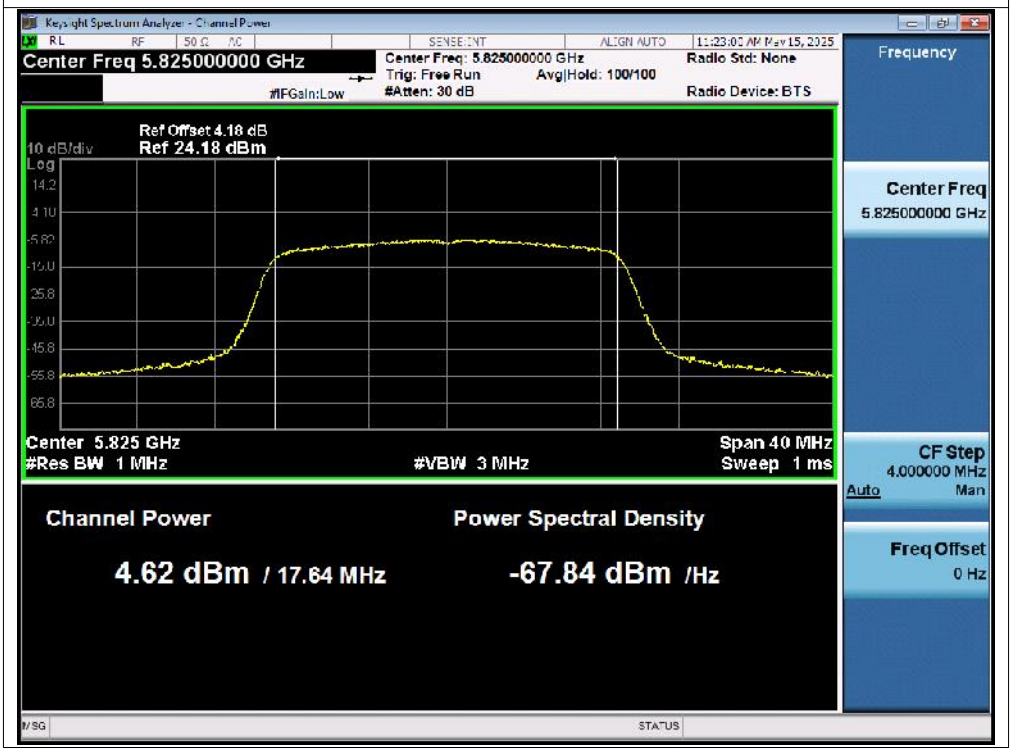

Power NVNT n20 5745MHz Ant1



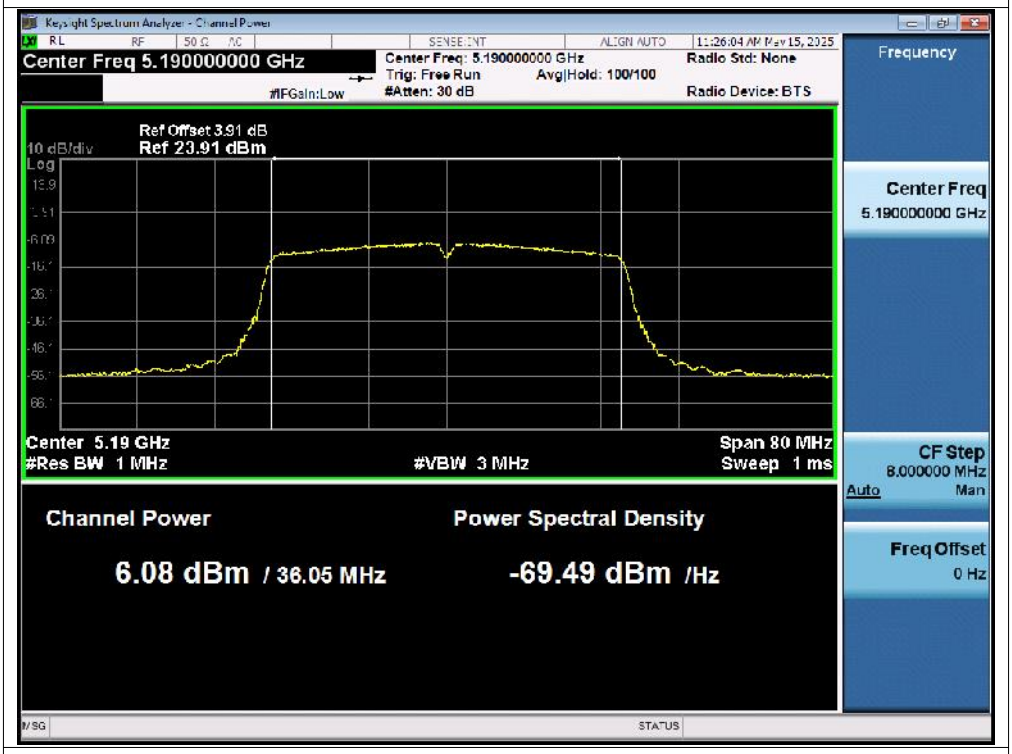
Power NVNT n20 5785MHz Ant1



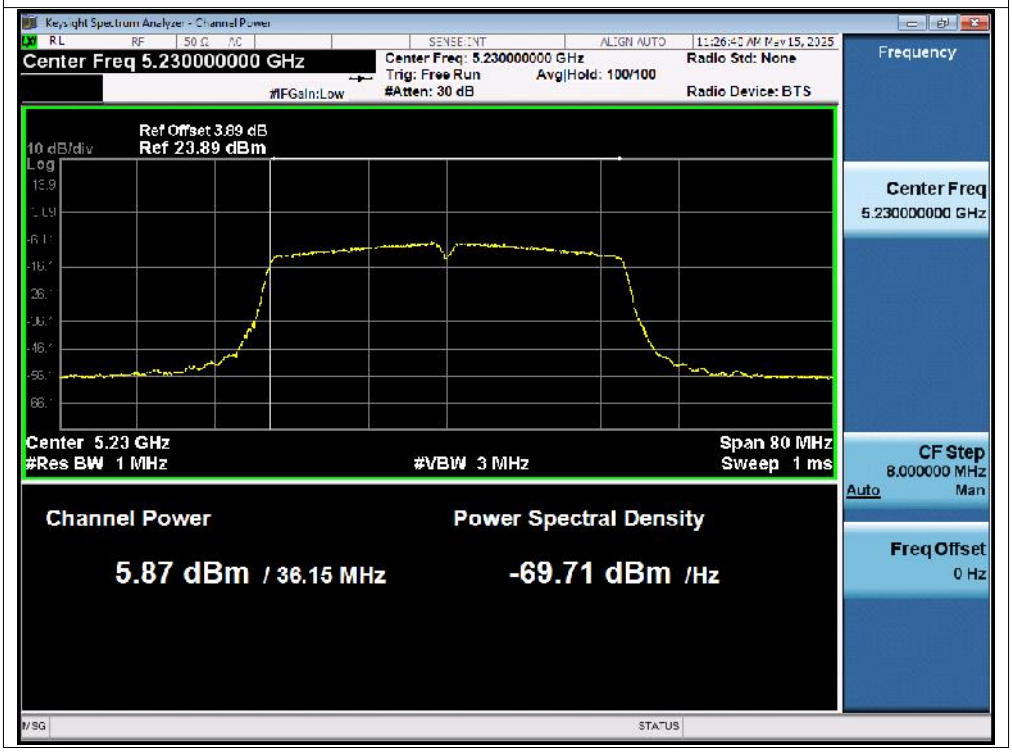

Power NVNT n20 5825MHz Ant1



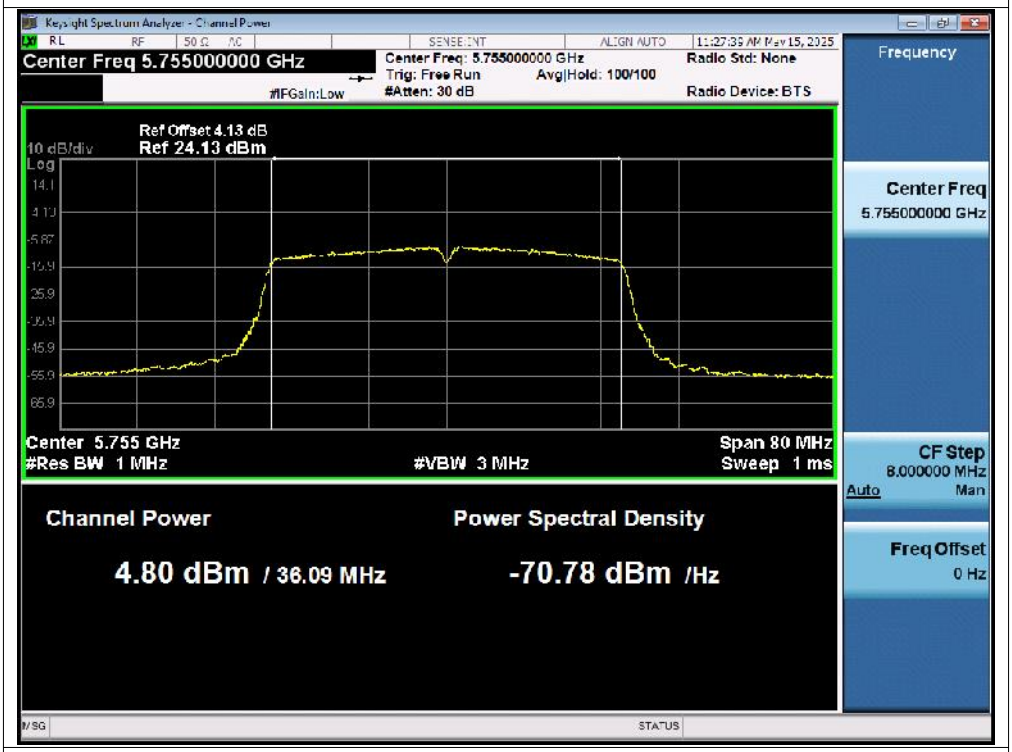
Power NVNT n40 5190MHz Ant1



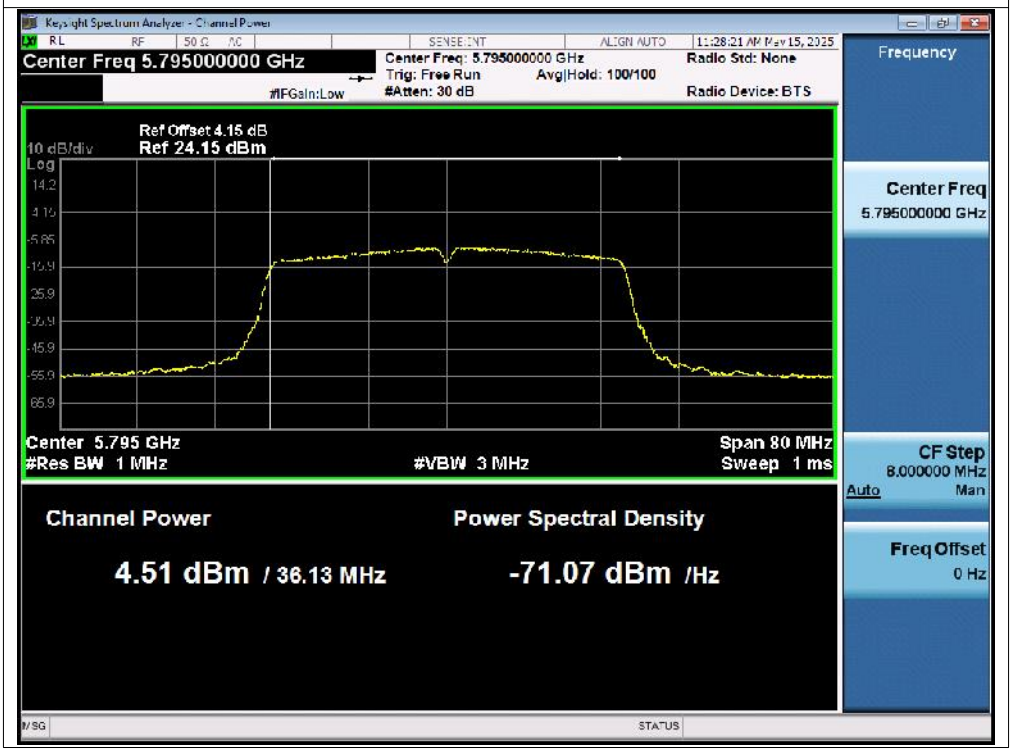

Power NVNT n40 5230MHz Ant1



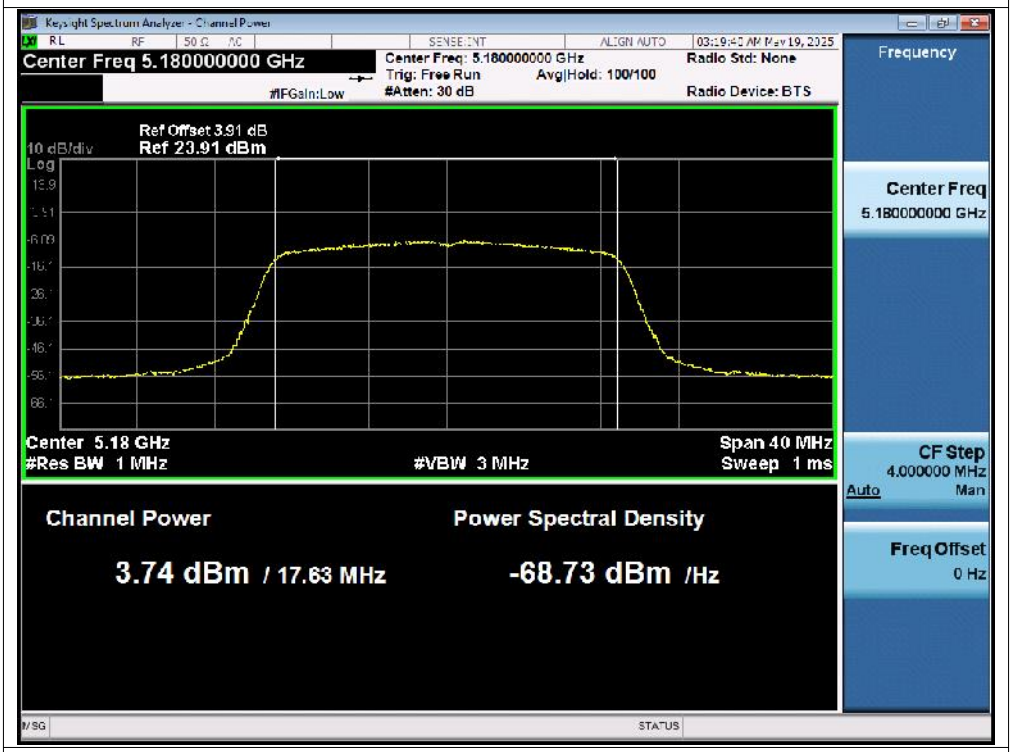
Power NVNT n40 5755MHz Ant1



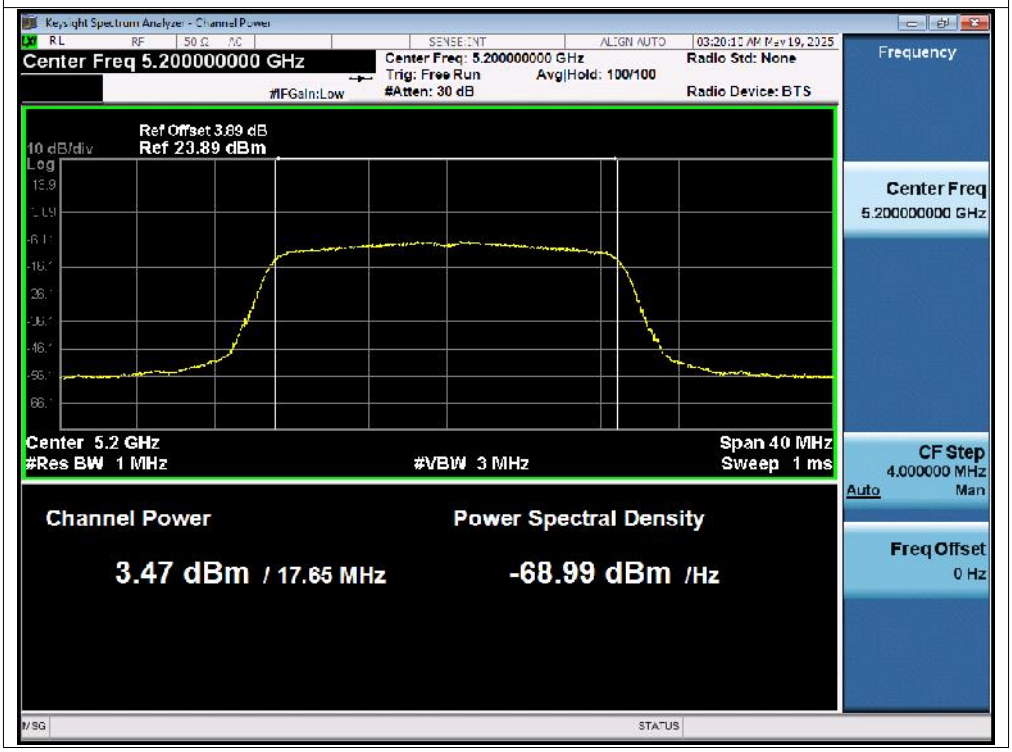

Power NVNT n40 5795MHz Ant1



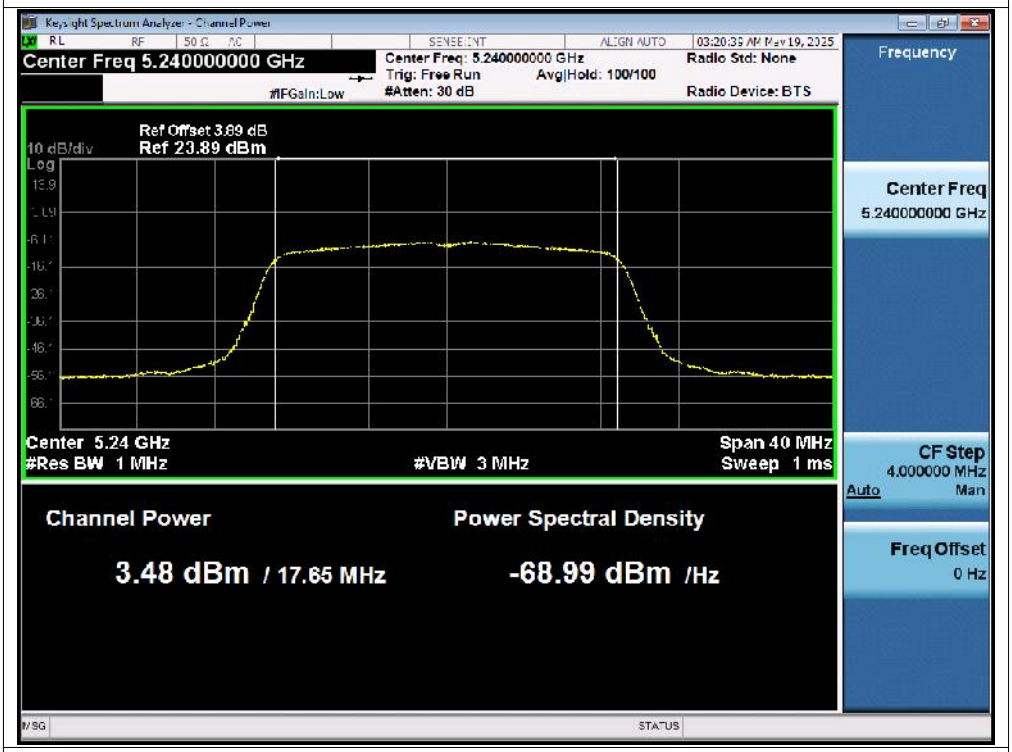
Power NVNT ac20 5180MHz Ant1



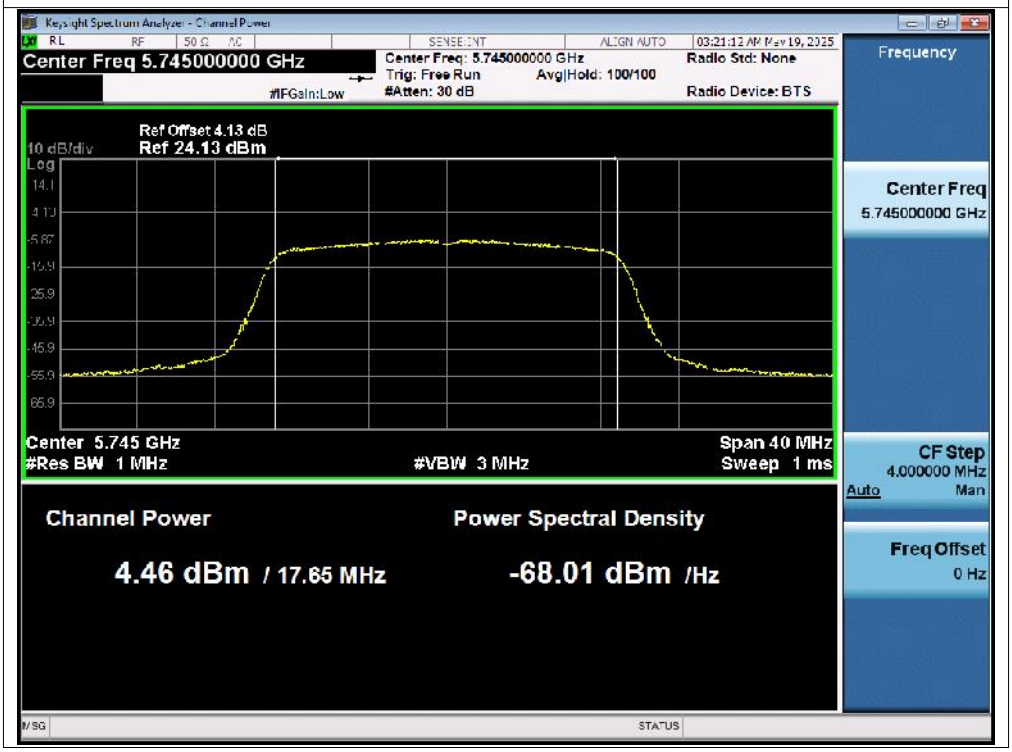

Power NVNT ac20 5200MHz Ant1



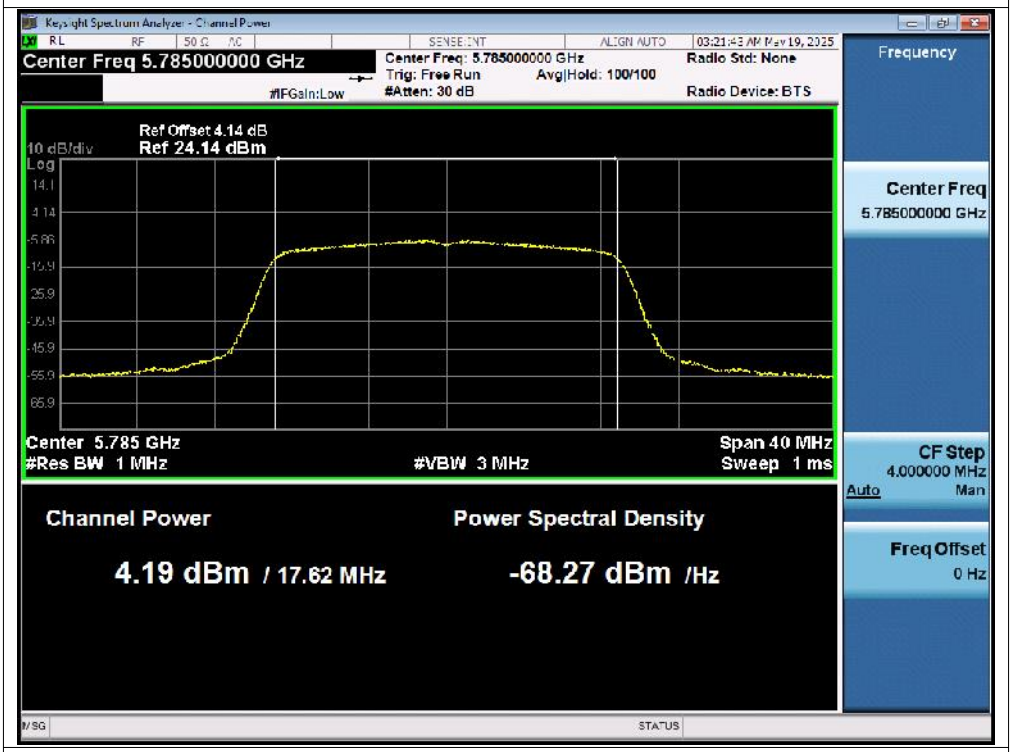
Power NVNT ac20 5240MHz Ant1



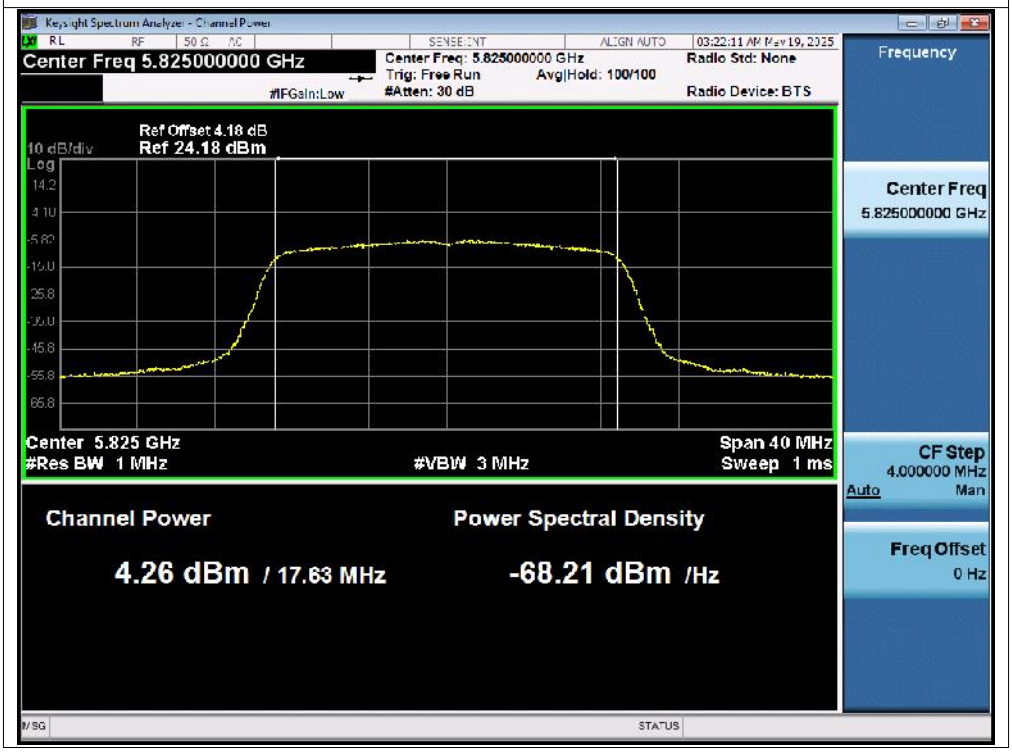

Power NVNT ac20 5745MHz Ant1



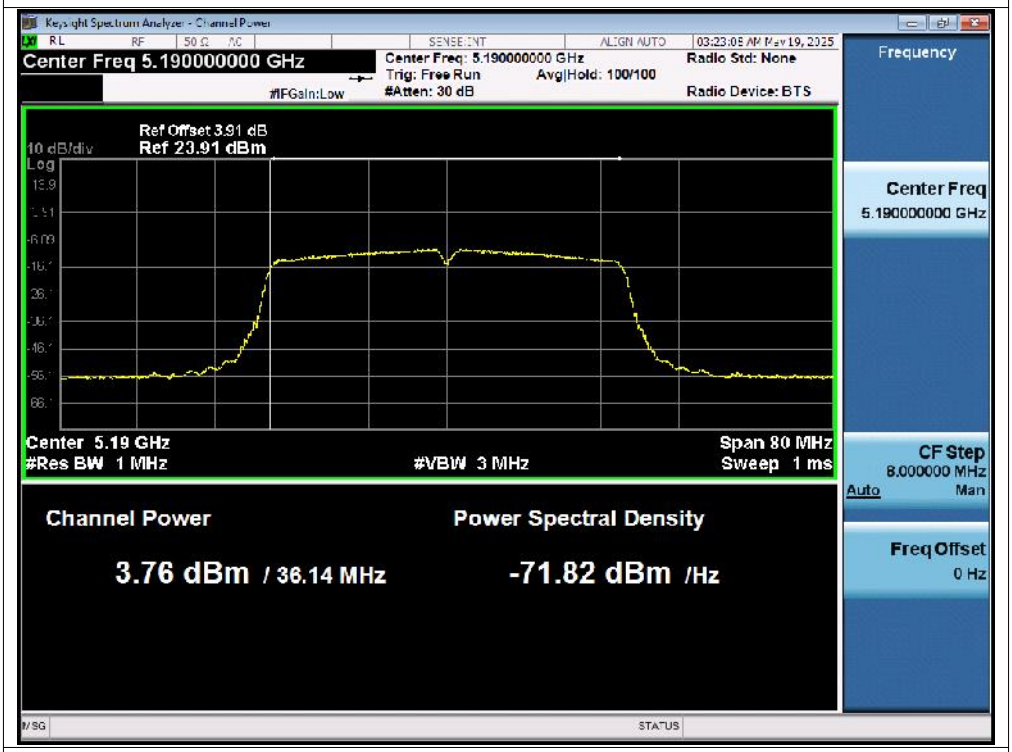
Power NVNT ac20 5785MHz Ant1



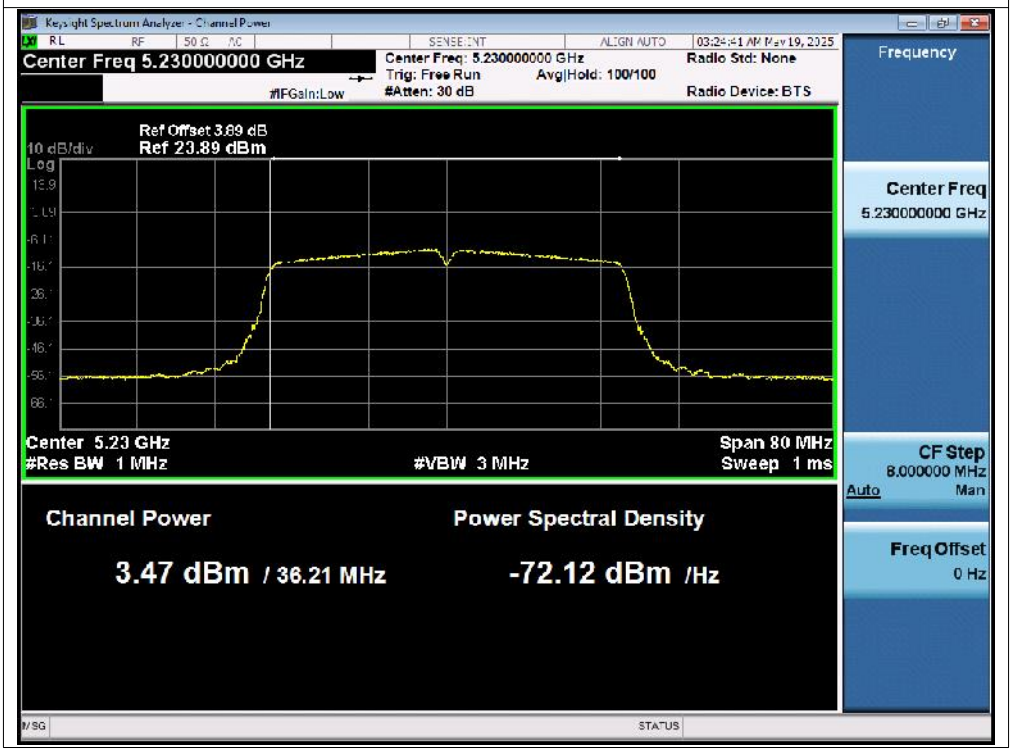

Power NVNT ac20 5825MHz Ant1



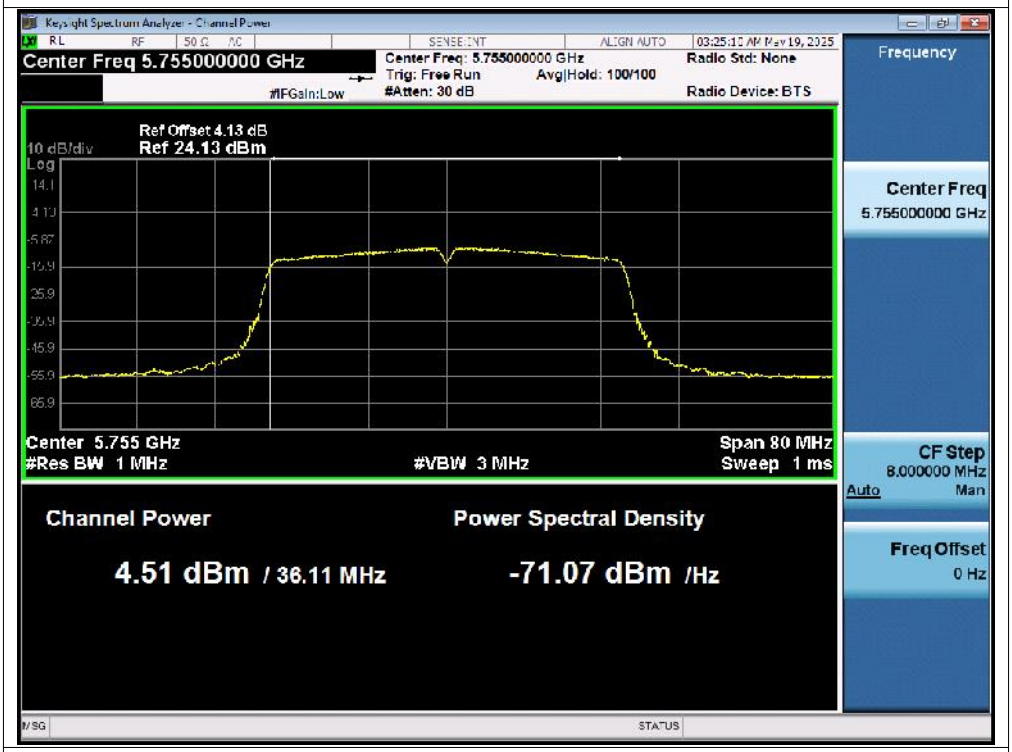
Power NVNT ac40 5190MHz Ant1



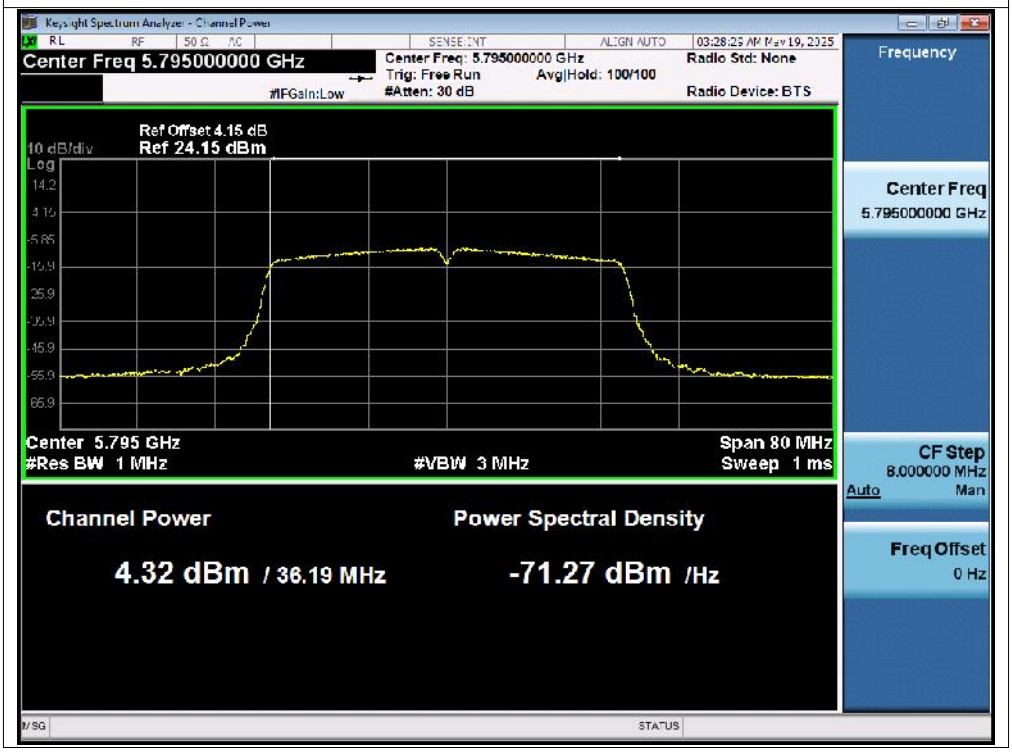

Power NVNT ac40 5230MHz Ant1



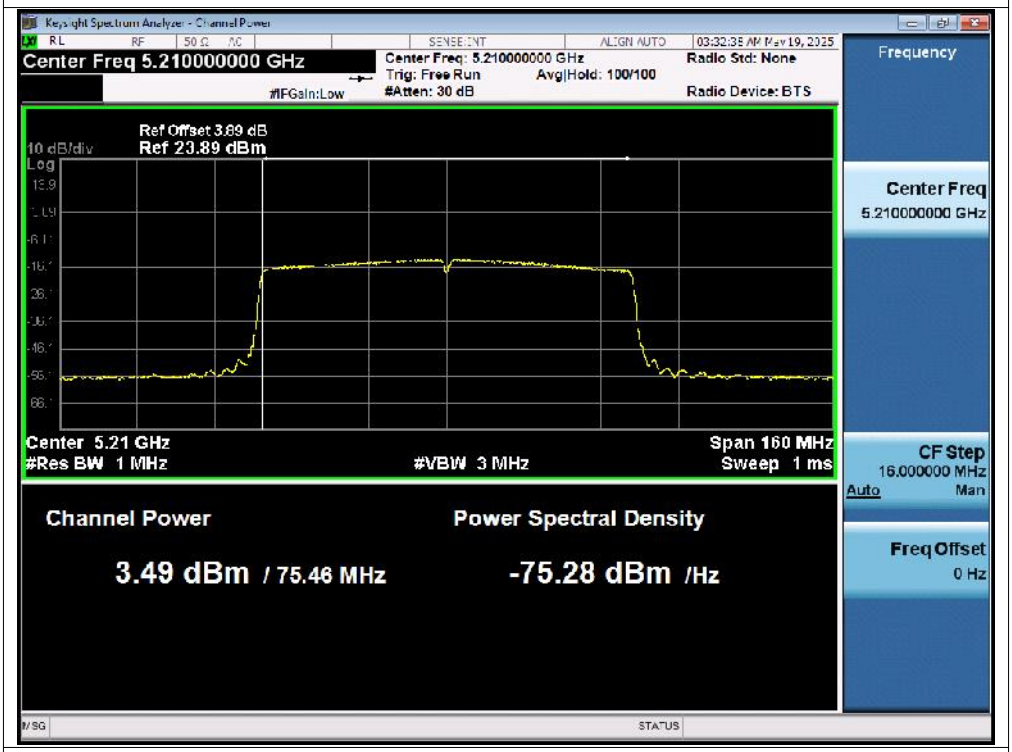
Power NVNT ac40 5755MHz Ant1




Power NVNT ac40 5795MHz Ant1



Power NVNT ac80 5210MHz Ant1

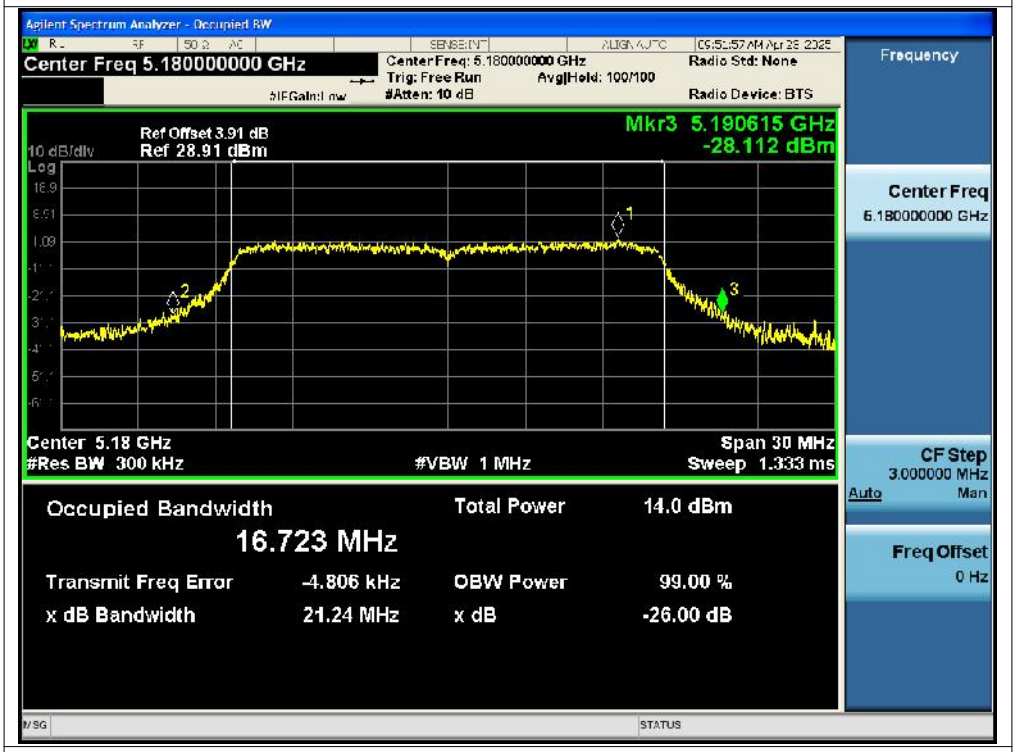



Power NVNT ac80 5775MHz Ant1

# -26dB Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | -26 dB Bandwidth (MHz) | Verdict |
|---|---|---|---|---|---|
| NVNT | a | 5180 | Ant1 | 21.239 | Pass |
| NVNT | a | 5200 | Ant1 | 21.253 | Pass |
| NVNT | a | 5240 | Ant1 | 21.184 | Pass |
| NVNT | n20 | 5180 | Ant1 | 21.046 | Pass |
| NVNT | n20 | 5200 | Ant1 | 21.141 | Pass |
| NVNT | n20 | 5240 | Ant1 | 21.324 | Pass |
| NVNT | n40 | 5190 | Ant1 | 39.076 | Pass |
| NVNT | n40 | 5230 | Ant1 | 39.833 | Pass |
| NVNT | ac20 | 5180 | Ant1 | 21.48 | Pass |
| NVNT | ac20 | 5200 | Ant1 | 21.056 | Pass |
| NVNT | ac20 | 5240 | Ant1 | 21.632 | Pass |
| NVNT | ac40 | 5190 | Ant1 | 39.667 | Pass |
| NVNT | ac40 | 5230 | Ant1 | 44.022 | Pass |
| NVNT | ac80 | 5210 | Ant1 | 79.421 | Pass |

| Test Graphs |
| --- |
| -26dB Bandwidth NVNT a 5180MHz Ant1 |



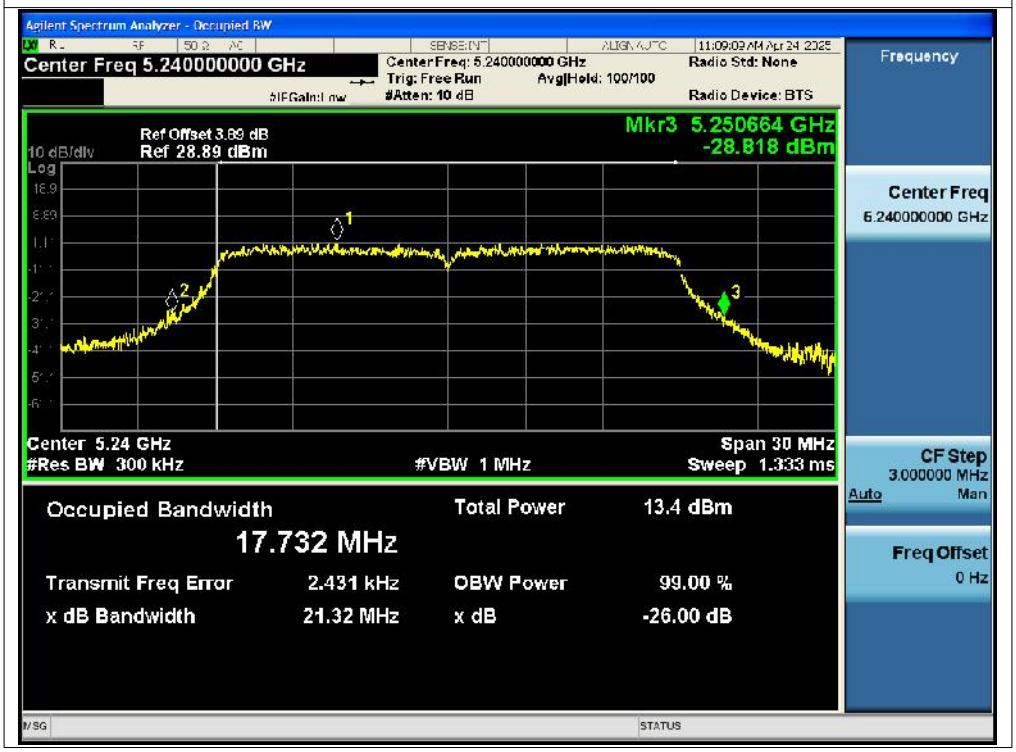

| -26dB Bandwidth NVNT a 5200MHz Ant1 |
| --- |

-26dB Bandwidth NVNT a 5240MHz Ant1

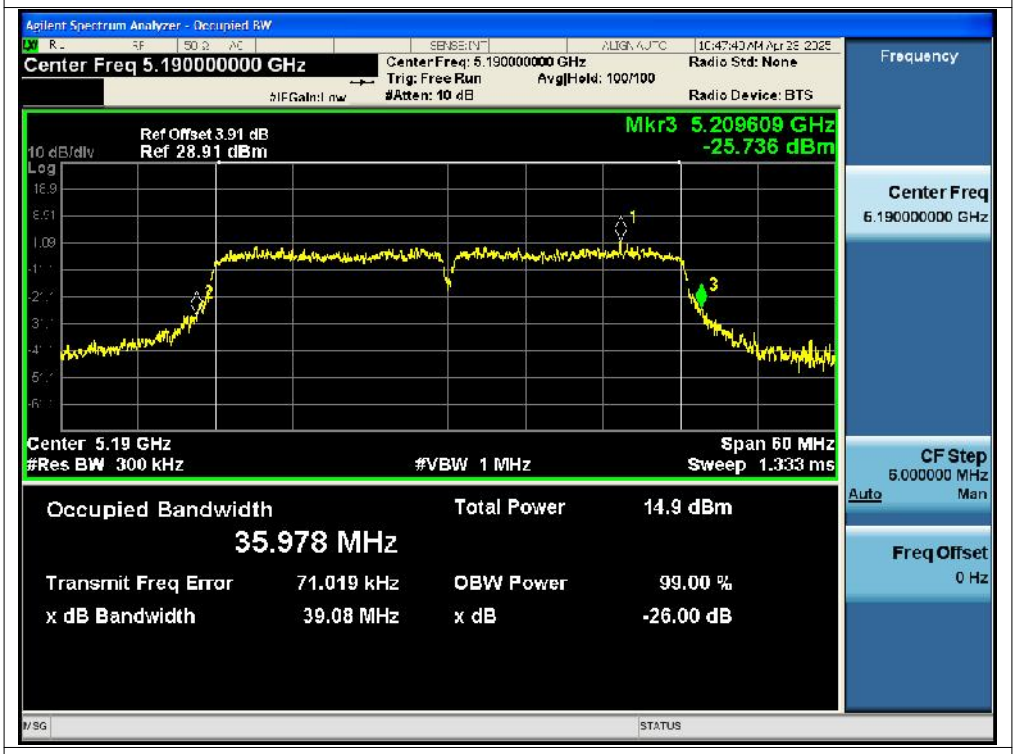

-26dB Bandwidth NVNT n20 5180MHz Ant1

-26dB Bandwidth NVNT n20 5200MHz Ant1

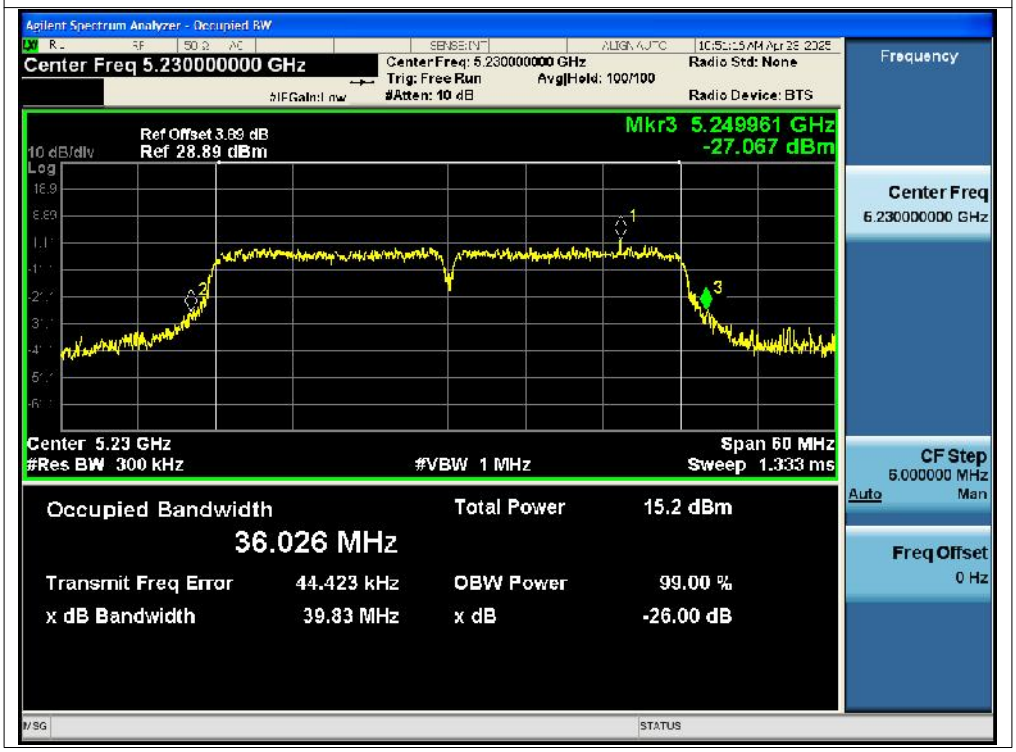

-26dB Bandwidth NVNT n20 5240MHz Ant1



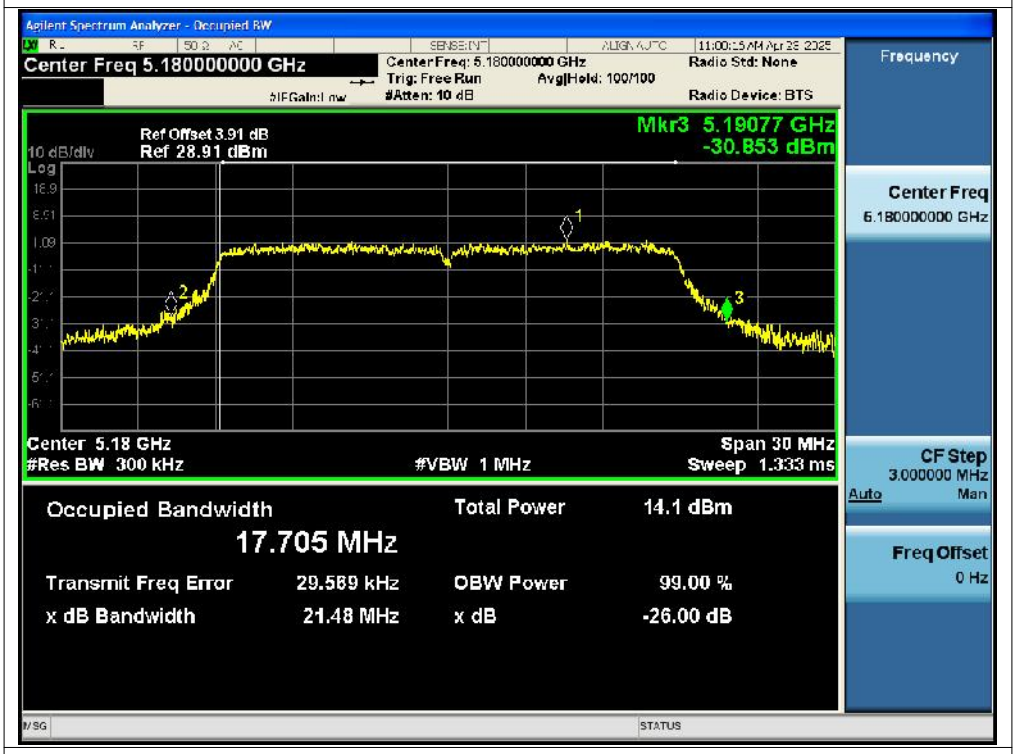
-26dB Bandwidth NVNT n40 5190MHz Ant1



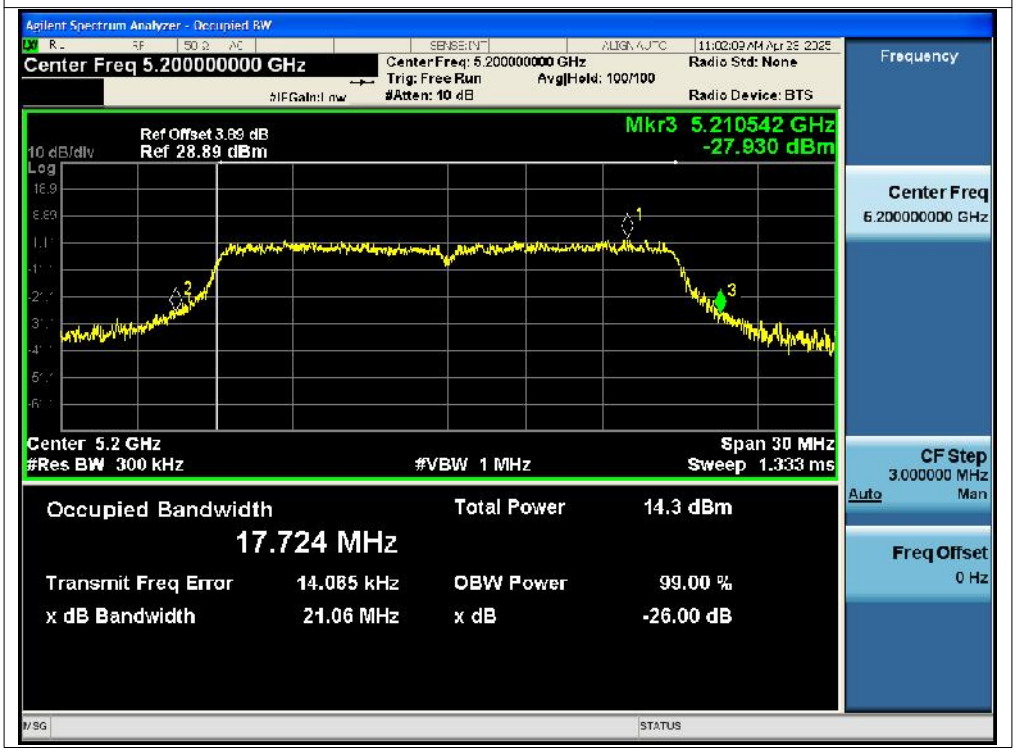

-26dB Bandwidth NVNT n40 5230MHz Ant1



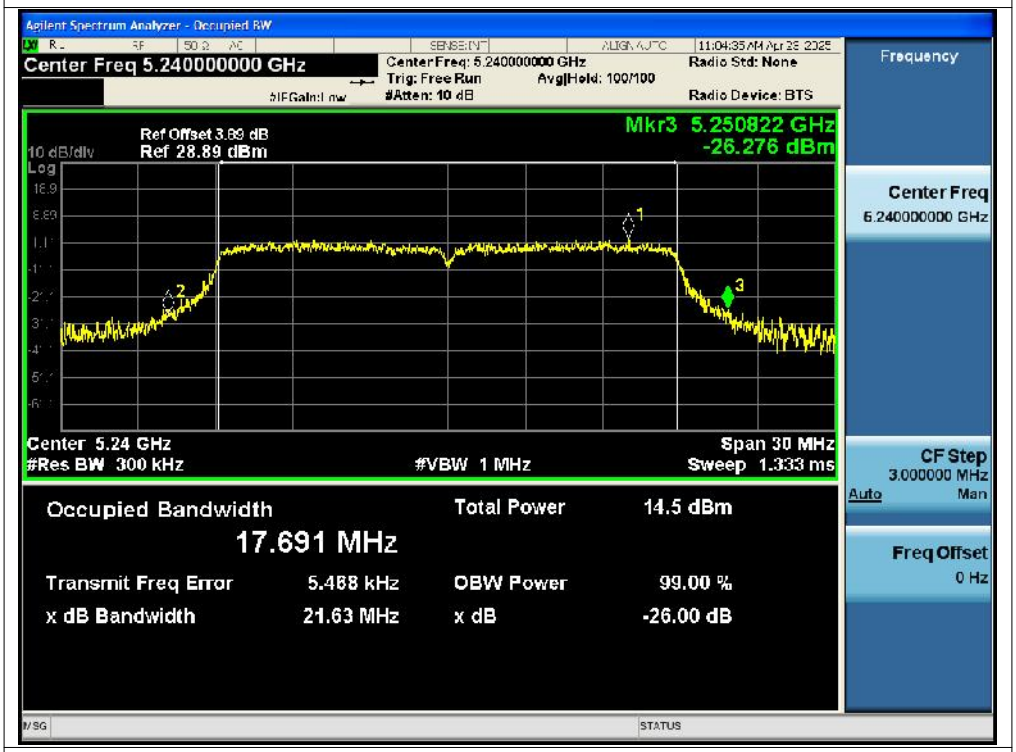
-26dB Bandwidth NVNT ac20 5180MHz Ant1



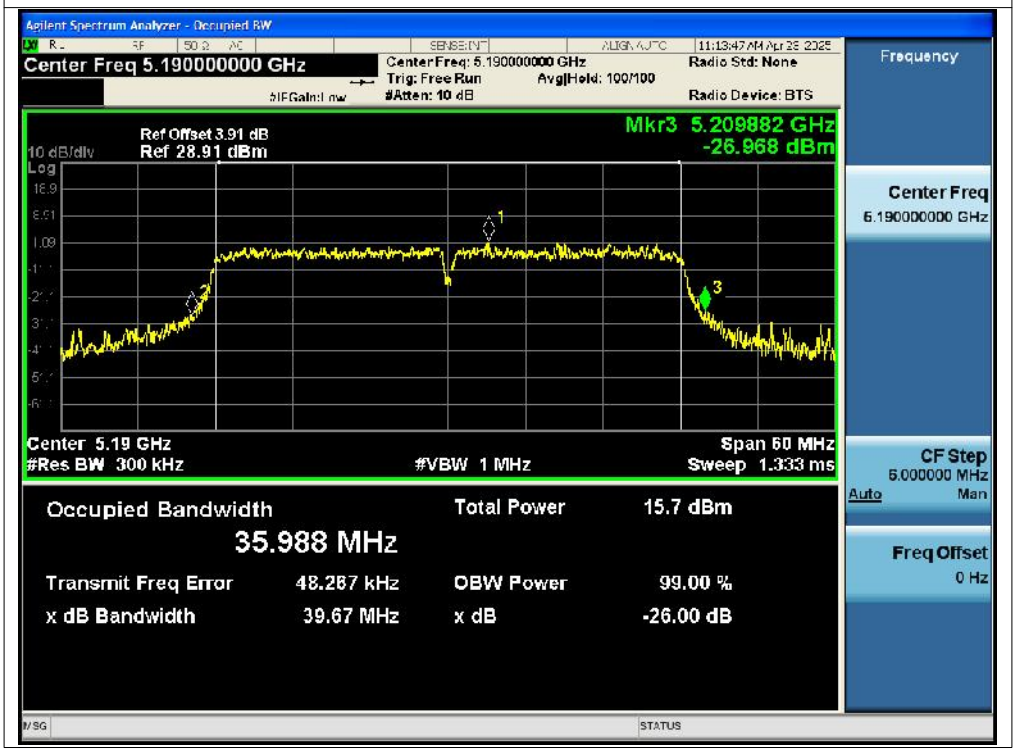

-26dB Bandwidth NVNT ac20 5200MHz Ant1



-26dB Bandwidth NVNT ac20 5240MHz Ant1

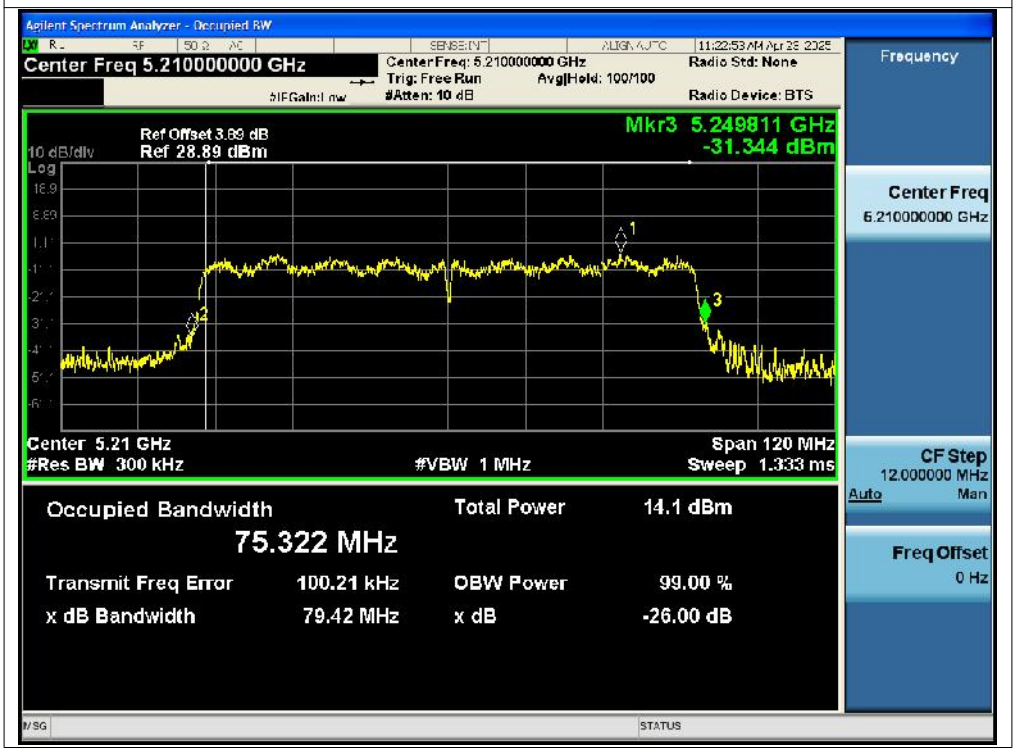



-26dB Bandwidth NVNT ac40 5190MHz Ant1



-26dB Bandwidth NVNT ac40 5230MHz Ant1


-26dB Bandwidth NVNT ac80 5210MHz Ant1



# Occupied Channel Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|---|---|---|---|---|
| NVNT | a | 5180 | Ant1 | 16.548 |
| NVNT | a | 5200 | Ant1 | 16.552 |
| NVNT | a | 5240 | Ant1 | 16.544 |
| NVNT | a | 5745 | Ant1 | 16.538 |
| NVNT | a | 5785 | Ant1 | 16.542 |
| NVNT | a | 5825 | Ant1 | 16.559 |
| NVNT | n20 | 5180 | Ant1 | 17.639 |
| NVNT | n20 | 5200 | Ant1 | 17.633 |
| NVNT | n20 | 5240 | Ant1 | 17.643 |
| NVNT | n20 | 5745 | Ant1 | 17.612 |
| NVNT | n20 | 5785 | Ant1 | 17.604 |
| NVNT | n20 | 5825 | Ant1 | 17.64 |
| NVNT | n40 | 5190 | Ant1 | 36.051 |
| NVNT | n40 | 5230 | Ant1 | 36.149 |
| NVNT | n40 | 5755 | Ant1 | 36.088 |
| NVNT | n40 | 5795 | Ant1 | 36.132 |
| NVNT | ac20 | 5180 | Ant1 | 17.634 |
| NVNT | ac20 | 5200 | Ant1 | 17.647 |
| NVNT | ac20 | 5240 | Ant1 | 17.649 |
| NVNT | ac20 | 5745 | Ant1 | 17.645 |
| NVNT | ac20 | 5785 | Ant1 | 17.622 |
| NVNT | ac20 | 5825 | Ant1 | 17.63 |
| NVNT | ac40 | 5190 | Ant1 | 36.138 |
| NVNT | ac40 | 5230 | Ant1 | 36.207 |
| NVNT | ac40 | 5755 | Ant1 | 36.109 |
| NVNT | ac40 | 5795 | Ant1 | 36.186 |
| NVNT | ac80 | 5210 | Ant1 | 75.457 |
| NVNT | ac80 | 5775 | Ant1 | 75.524 |