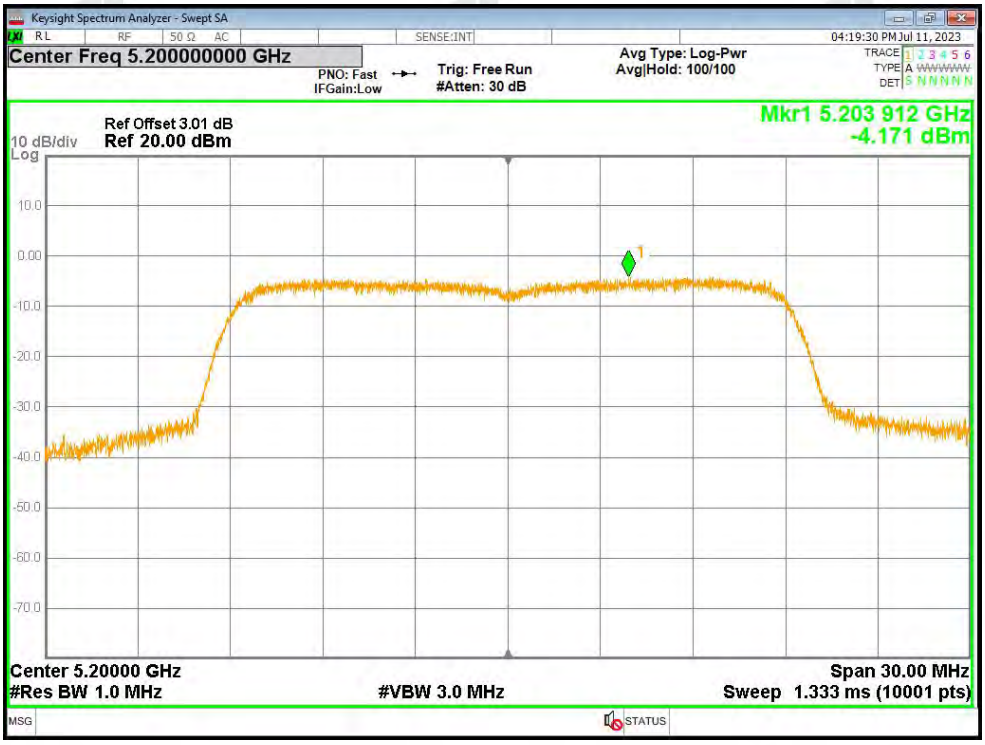
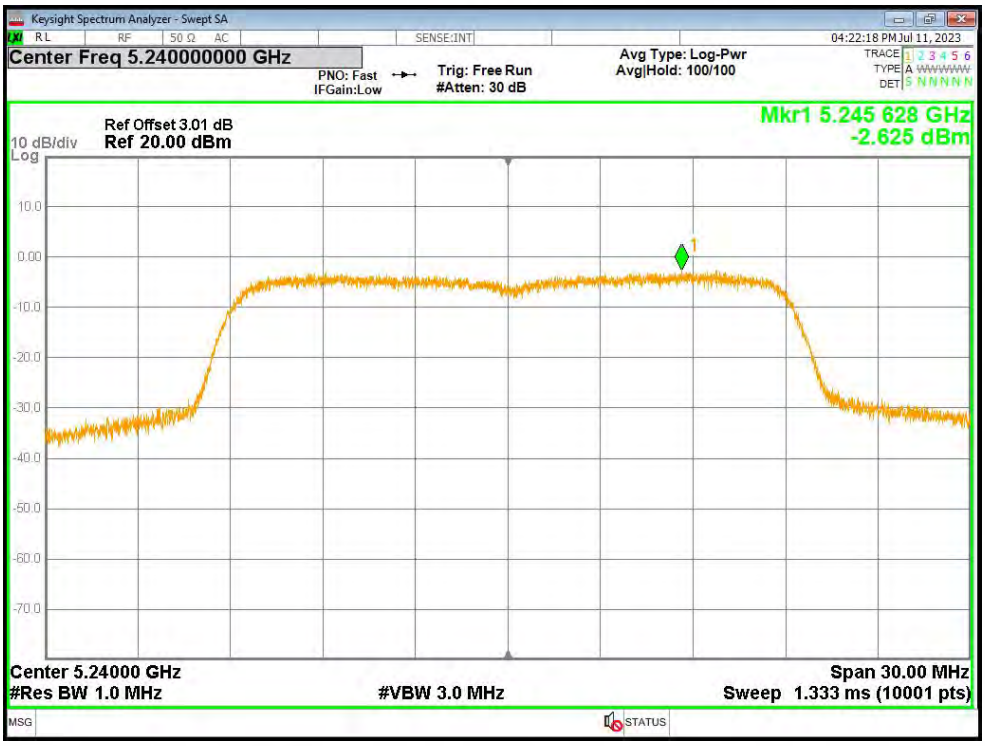
PSD NVNT ac20 5200MHz Ant1




PSD NVNT ac20 5240MHz Ant1

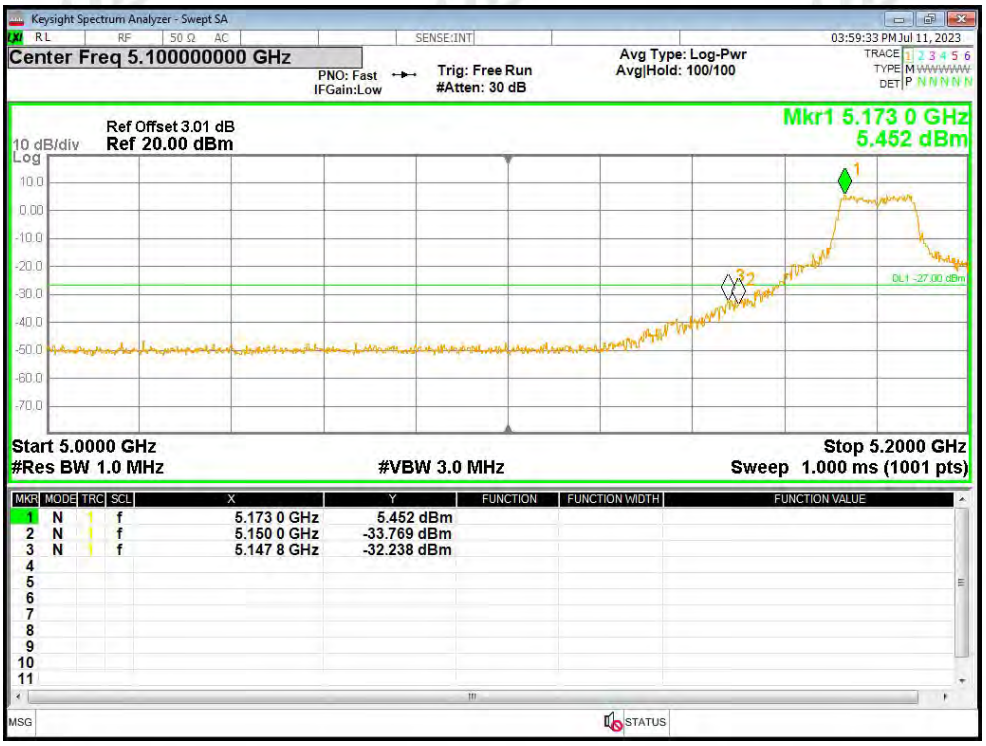


## A.6 Band Edge

| Condition | Mode | Frequency (MHz) | Antenna | Mac Value (dBc) | Limit (dBc) | Verdict |
|---|---|---|---|---|---|---|
| NVNT | a | 5180 | Ant1 | -32.23 | -27 | Pass |
| NVNT | a | 5240 | Ant1 | -44.8 | -27 | Pass |
| NVNT | n20 | 5180 | Ant1 | -34.01 | -27 | Pass |
| NVNT | n20 | 5240 | Ant1 | -46.4 | -27 | Pass |
| NVNT | n40 | 5190 | Ant1 | -30.09 | -27 | Pass |
| NVNT | n40 | 5230 | Ant1 | -44.62 | -27 | Pass |
| NVNT | ac40 | 5190 | Ant1 | -27.18 | -27 | Pass |
| NVNT | ac40 | 5230 | Ant1 | -45.36 | -27 | Pass |
| NVNT | ac20 | 5180 | Ant1 | -33.22 | -27 | Pass |
| NVNT | ac20 | 5240 | Ant1 | -46.13 | -27 | Pass |

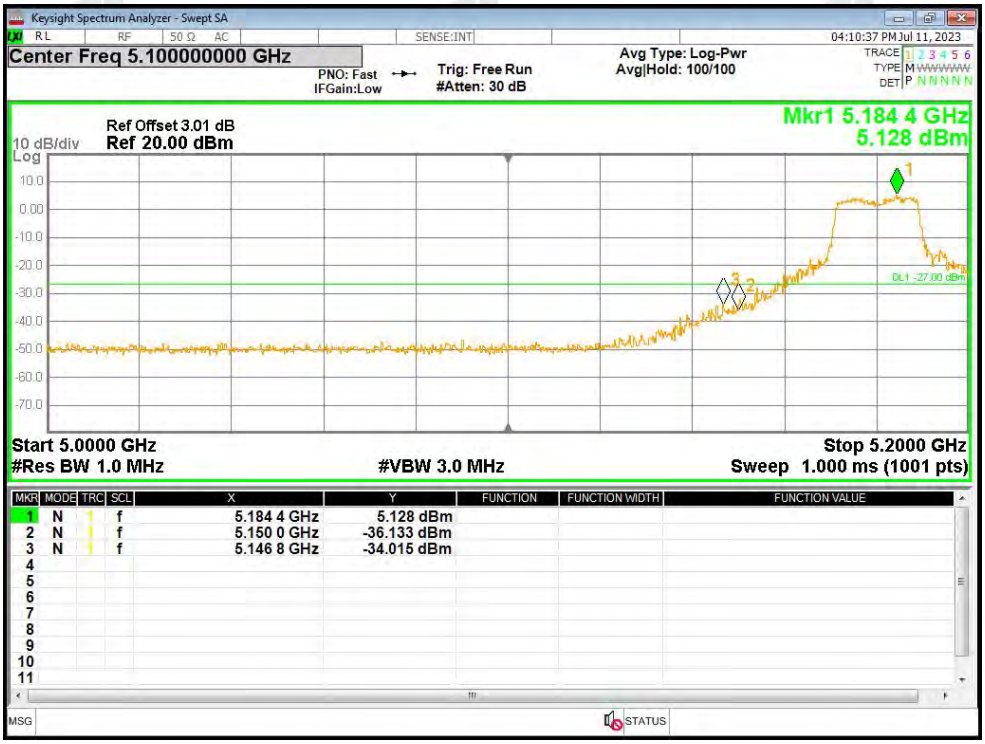
Test Graphs

Band Edge NVNT a 5180MHz Low Ant1




Band Edge NVNT a 5240MHz High Ant1

Band Edge NVNT n20 5180MHz Low Ant1

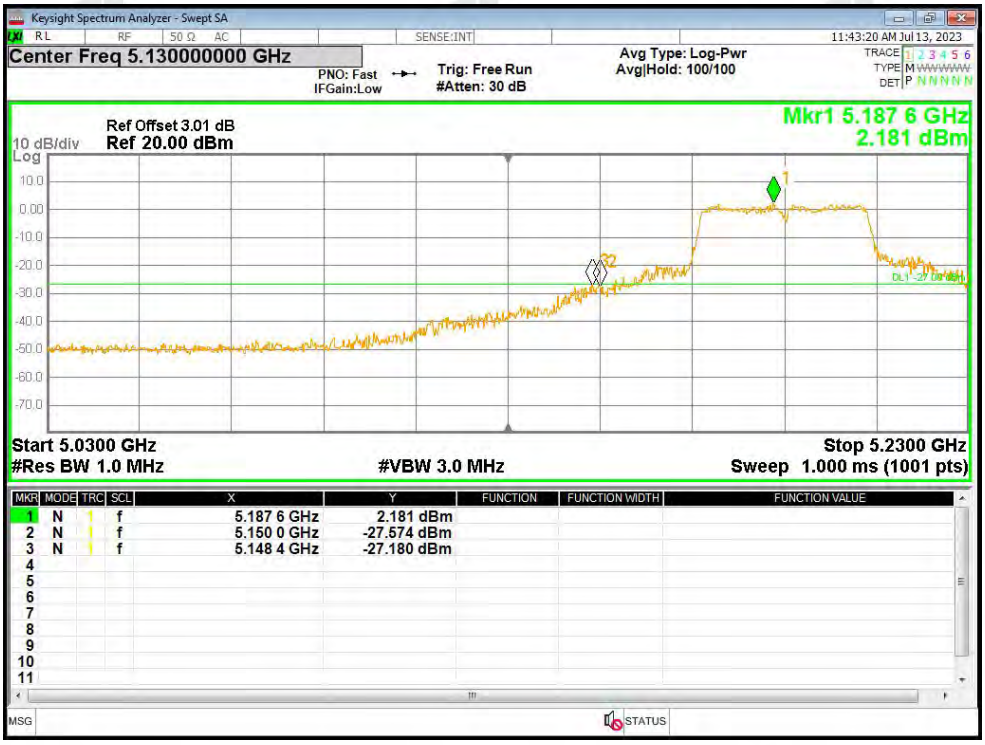



Band Edge NVNT n20 5240MHz High Ant1

Band Edge NVNT n40 5190MHz Low Ant1

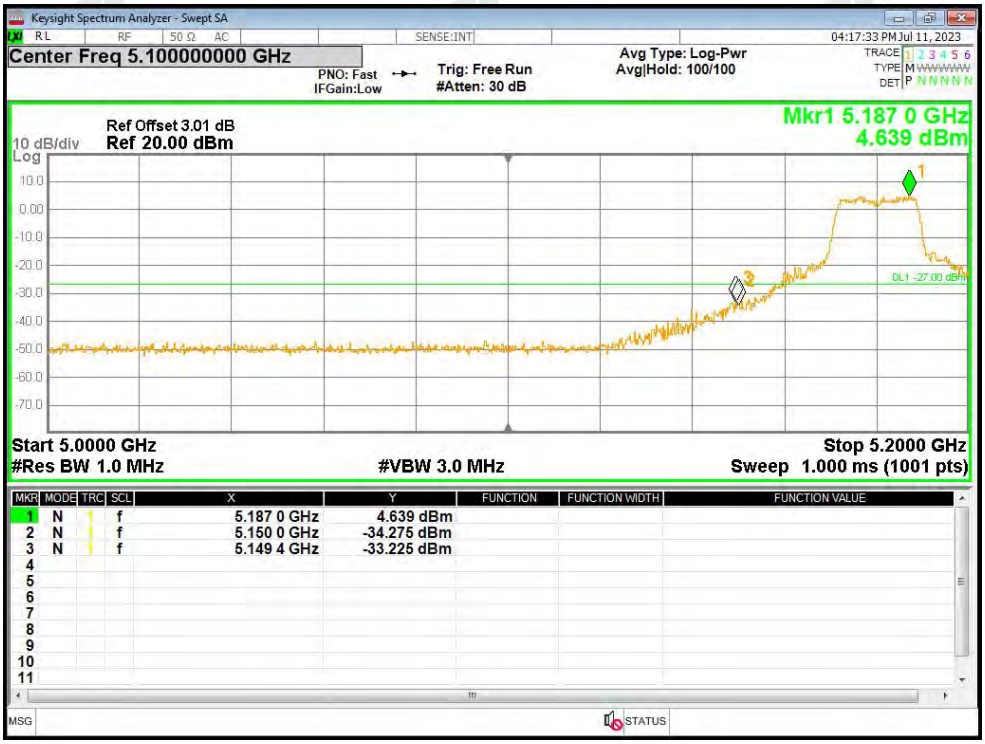

Band Edge NVNT n40 5230MHz High Ant1

Band Edge NVNT ac40 5190MHz Low Ant1




Band Edge NVNT ac40 5230MHz High Ant1

Band Edge NVNT ac20 5180MHz Low Ant1




Band Edge NVNT ac20 5240MHz High Ant1

## A.7 Frequency Stability

| Voltage | | | | | | | |
|---|---|---|---|---|---|---|---|
| TestMode | Channel | Voltage [Vdc] | Temperature (℃) | Frequency Error (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| a | 5180 | NV | NT | 80000 | 15.44 | Within 5150-5250MHz | Pass |
| | | LV | NT | 80000 | 15.44 | | |
| | | HV | NT | 80000 | 15.44 | | |
| | 5200 | NV | NT | 120000 | 23.08 | | |
| | | LV | NT | 120000 | 23.08 | | |
| | | HV | NT | 120000 | 23.08 | | |
| | 5240 | NV | NT | 120000 | 22.9 | | |
| | | LV | NT | 120000 | 22.9 | | |
| | | HV | NT | 120000 | 22.9 | | |
| n20 | 5180 | NV | NT | 120000 | 23.17 | | |
| | | LV | NT | 120000 | 23.17 | | |
| | | HV | NT | 120000 | 23.17 | | |
| | 5200 | NV | NT | 120000 | 23.08 | | |
| | | LV | NT | 120000 | 23.08 | | |
| | | HV | NT | 120000 | 23.08 | | |
| | 5240 | NV | NT | 120000 | 22.9 | | |
| | | LV | NT | 120000 | 22.9 | | |
| | | HV | NT | 120000 | 22.9 | | |
| ac20 | 5180 | NV | NT | 120000 | 23.17 | | |
| | | LV | NT | 120000 | 23.17 | | |
| | | HV | NT | 120000 | 23.17 | | |
| | 5200 | NV | NT | 120000 | 23.08 | | |
| | | LV | NT | 120000 | 23.08 | | |
| | | HV | NT | 120000 | 23.08 | | |
| | 5240 | NV | NT | 120000 | 22.9 | | |
| | | LV | NT | 120000 | 22.9 | | |
| | | HV | NT | 120000 | 22.9 | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| n40 | 5200 | NV | NT | 120000 | 23.12 | Within 5150-5250MHz | Pass |
| | | LV | NT | 120000 | 23.12 | | |
| | | HV | NT | 120000 | 23.12 | | |
| | 5240 | NV | NT | 120000 | 22.94 | | |
| | | LV | NT | 120000 | 22.94 | | |
| | | HV | NT | 120000 | 22.94 | | |
| ac40 | 5200 | NV | NT | 40000 | 7.71 | | |
| | | LV | NT | 40000 | 7.71 | | |
| | | HV | NT | 40000 | 7.71 | | |
| | 5240 | NV | NT | 0 | 0 | | |
| | | LV | NT | 0 | 0 | | |
| | | HV | NT | 0 | 0 | | |
| ac80 | 5210 | NV | NT | 80000 | 15.36 | | |
| | | LV | NT | 80000 | 15.36 | | |
| | | HV | NT | 80000 | 15.36 | | |

| Temperature | | | | | | | |
|---|---|---|---|---|---|---|---|
| TestMode | Channel | Voltage [Vdc] | Temperature (℃) | Frequency Error (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| a | 5180 | NV | -30 | 80000 | 15.44 | Within 5150-5250MHz | Pass |
| | | NV | -20 | 80000 | 15.44 | | |
| | | NV | -10 | 80000 | 15.44 | | |
| | | NV | 0 | 80000 | 15.44 | | |
| | | NV | 20 | 80000 | 15.44 | | |
| | | NV | 30 | 80000 | 15.44 | | |
| | | NV | 50 | 80000 | 15.44 | | |
| | 5200 | NV | -30 | 120000 | 23.08 | | |
| | | NV | -20 | 120000 | 23.08 | | |
| | | NV | -10 | 120000 | 23.08 | | |
| | | NV | 0 | 120000 | 23.08 | | |
| | | NV | 20 | 120000 | 23.08 | | |
| | | NV | 30 | 120000 | 23.08 | | |
| | | NV | 50 | 120000 | 23.08 | | |
| | 5240 | NV | -30 | 120000 | 22.9 | | |
| | | NV | -20 | 120000 | 22.9 | | |
| | | NV | -10 | 120000 | 22.9 | | |
| | | NV | 0 | 120000 | 22.9 | | |
| | | NV | 20 | 120000 | 22.9 | | |
| | | NV | 30 | 120000 | 22.9 | | |
| | | NV | 50 | 120000 | 22.9 | | |
| N20 | 5180 | NV | -30 | 120000 | 23.17 | | |
| | | NV | -20 | 120000 | 23.17 | | |
| | | NV | -10 | 120000 | 23.17 | | |
| | | NV | 0 | 120000 | 23.17 | | |
| | | NV | 20 | 120000 | 23.17 | | |
| | | NV | 30 | 120000 | 23.17 | | |
| | | NV | 50 | 120000 | 23.17 | | |
| | 5200 | NV | -30 | 120000 | 23.08 | | |
| | | NV | -20 | 120000 | 23.08 | | |
| | | NV | -10 | 120000 | 23.08 | | |
| | | NV | 0 | 120000 | 23.08 | | |
| | | NV | 20 | 120000 | 23.08 | | |

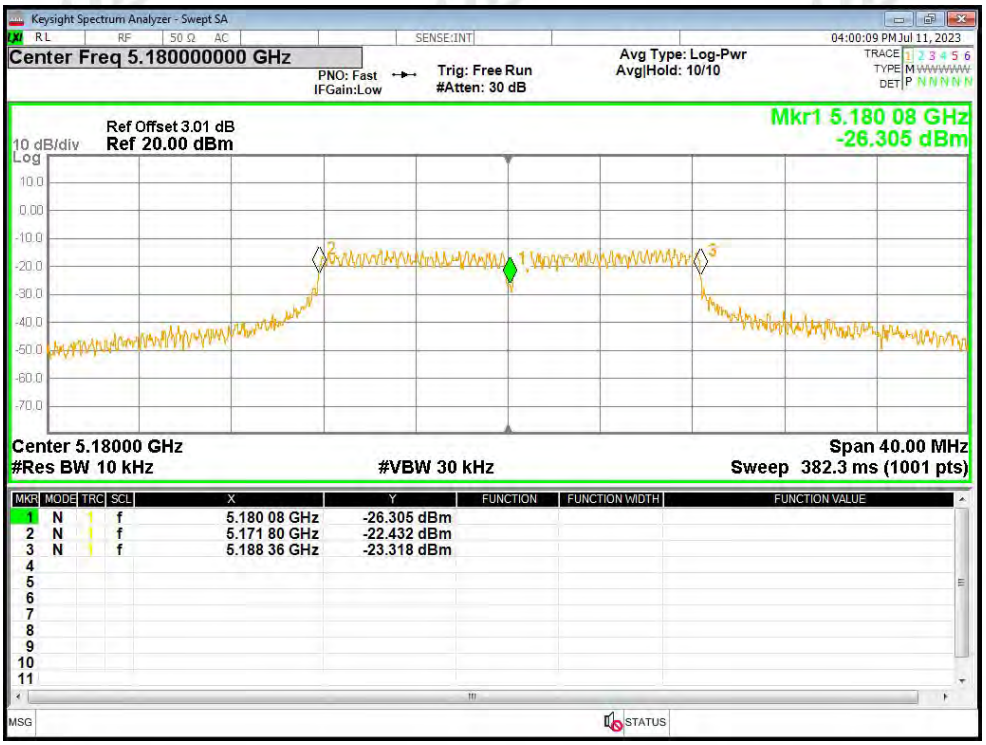
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | NV | 30 | 120000 | 23.08 | | |
| | | NV | 50 | 120000 | 23.08 | | |
| | 5240 | NV | -30 | 120000 | 22.9 | | |
| | | NV | -20 | 120000 | 22.9 | | |
| | | NV | -10 | 120000 | 22.9 | | |
| | | NV | 0 | 120000 | 22.9 | | |
| | | NV | 20 | 120000 | 22.9 | | |
| | | NV | 30 | 120000 | 22.9 | | |
| | | NV | 50 | 120000 | 22.9 | | |
| ac20 | 5180 | NV | -30 | 120000 | 23.17 | Within 5150-5250MHz | Pass |
| | | NV | -20 | 120000 | 23.17 | | |
| | | NV | -10 | 120000 | 23.17 | | |
| | | NV | 0 | 120000 | 23.17 | | |
| | | NV | 20 | 120000 | 23.17 | | |
| | | NV | 30 | 120000 | 23.17 | | |
| | | NV | 50 | 120000 | 23.17 | | |
| | 5200 | NV | -30 | 120000 | 23.08 | | |
| | | NV | -20 | 120000 | 23.08 | | |
| | | NV | -10 | 120000 | 23.08 | | |
| | | NV | 0 | 120000 | 23.08 | | |
| | | NV | 20 | 120000 | 23.08 | | |
| | | NV | 30 | 120000 | 23.08 | | |
| | | NV | 50 | 120000 | 23.08 | | |
| | 5240 | NV | -30 | 120000 | 22.9 | | |
| | | NV | -20 | 120000 | 22.9 | | |
| | | NV | -10 | 120000 | 22.9 | | |
| | | NV | 0 | 120000 | 22.9 | | |
| | | NV | 20 | 120000 | 22.9 | | |
| | | NV | 30 | 120000 | 22.9 | | |
| | | NV | 50 | 120000 | 22.9 | | |
| N40 | 5200 | NV | -30 | 120000 | 23.12 | | |
| | | NV | -20 | 120000 | 23.12 | | |
| | | NV | -10 | 120000 | 23.12 | | |
| | | NV | 0 | 120000 | 23.12 | | |
| | | NV | 20 | 120000 | 23.12 | | |
| | | NV | 30 | 120000 | 23.12 | | |
| | | NV | 50 | 120000 | 23.12 | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| N40 | 5240 | NV | -30 | 120000 | 22.94 | Within 5150-5250MHz | Pass |
| | | NV | -20 | 120000 | 22.94 | | |
| | | NV | -10 | 120000 | 22.94 | | |
| | | NV | 0 | 120000 | 22.94 | | |
| | | NV | 20 | 120000 | 22.94 | | |
| | | NV | 30 | 120000 | 22.94 | | |
| | | NV | 50 | 120000 | 22.94 | | |
| ac40 | 5200 | NV | -30 | 40000 | 7.71 | | |
| | | NV | -20 | 40000 | 7.71 | | |
| | | NV | -10 | 40000 | 7.71 | | |
| | | NV | 0 | 40000 | 7.71 | | |
| | | NV | 20 | 40000 | 7.71 | | |
| | | NV | 30 | 40000 | 7.71 | | |
| | | NV | 50 | 40000 | 7.71 | | |
| | 5240 | NV | -30 | 0 | 0 | | |
| | | NV | -20 | 0 | 0 | | |
| | | NV | -10 | 0 | 0 | | |
| | | NV | 0 | 0 | 0 | | |
| | | NV | 20 | 0 | 0 | | |
| | | NV | 30 | 0 | 0 | | |
| | | NV | 50 | 0 | 0 | | |
| ac80 | 5210 | NV | -30 | 80000 | 15.36 | | |
| | | NV | -20 | 80000 | 15.36 | | |
| | | NV | -10 | 80000 | 15.36 | | |
| | | NV | 0 | 80000 | 15.36 | | |
| | | NV | 20 | 80000 | 15.36 | | |
| | | NV | 30 | 80000 | 15.36 | | |
| | | NV | 50 | 80000 | 15.36 | | |

Note:Test temperature:−30° to + 50° , At room temperature, the test results are the worst, only reflecting the test results at room temperature.

Test Graphs

Freq. Stability NVNT a 5180MHz Ant1




Freq. Stability NVNT a 5200MHz Ant1

Freq. Stability NVNT a 5240MHz Ant1

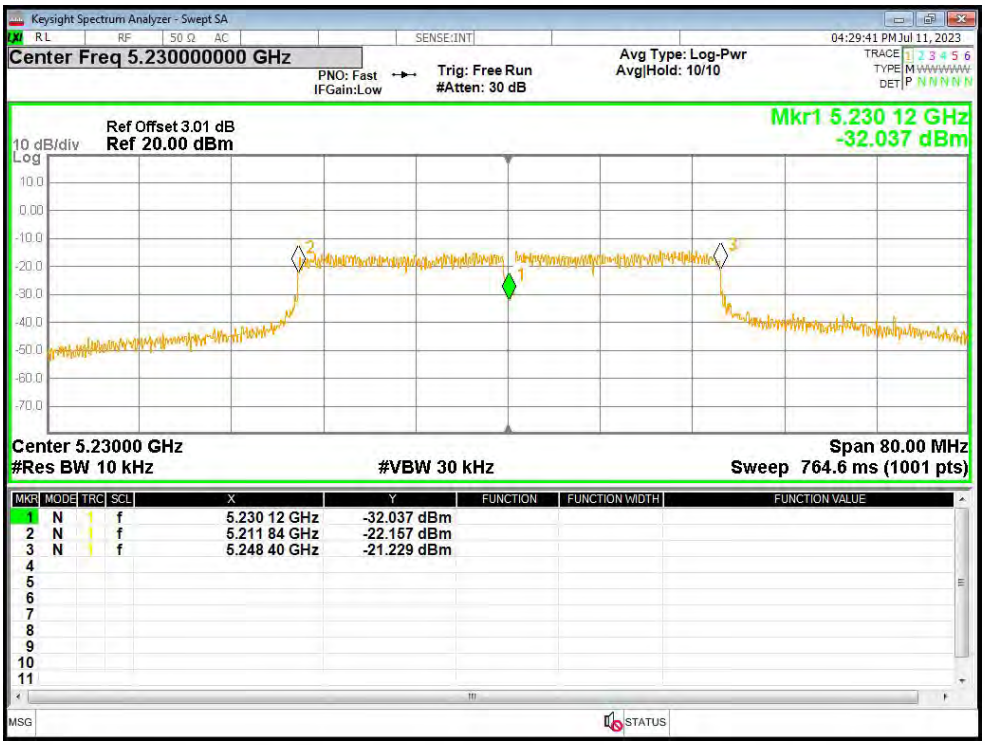

Freq. Stability NVNT n20 5180MHz Ant1

Freq. Stability NVNT n20 5200MHz Ant1


Freq. Stability NVNT n20 5240MHz Ant1

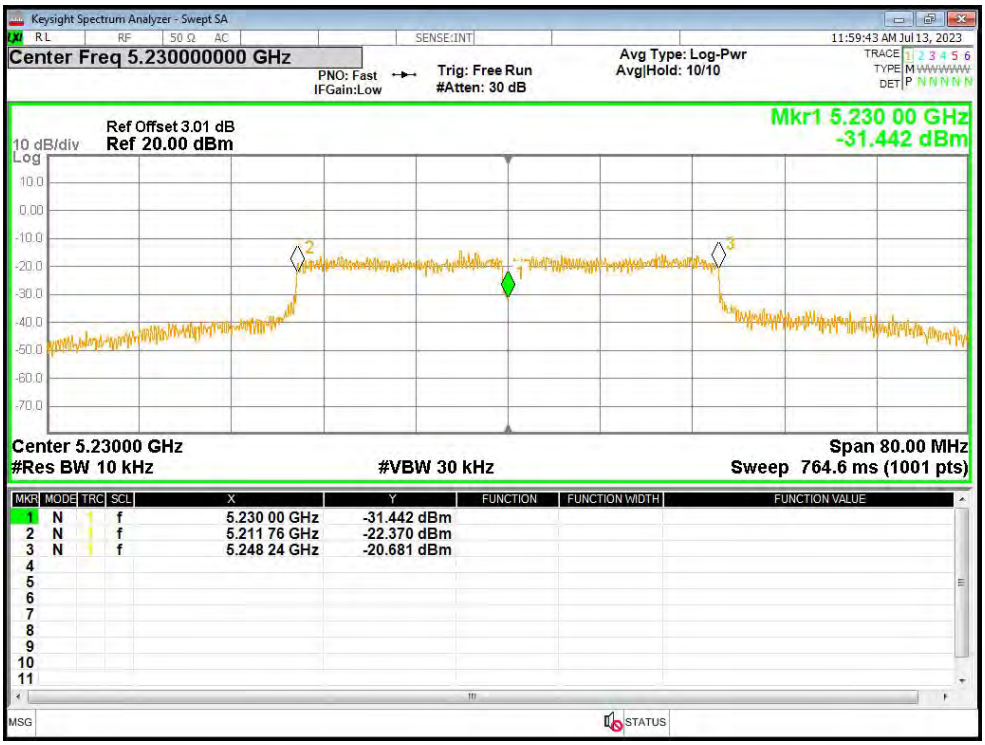
Freq. Stability NVNT n40 5190MHz Ant1


Freq. Stability NVNT n40 5230MHz Ant1



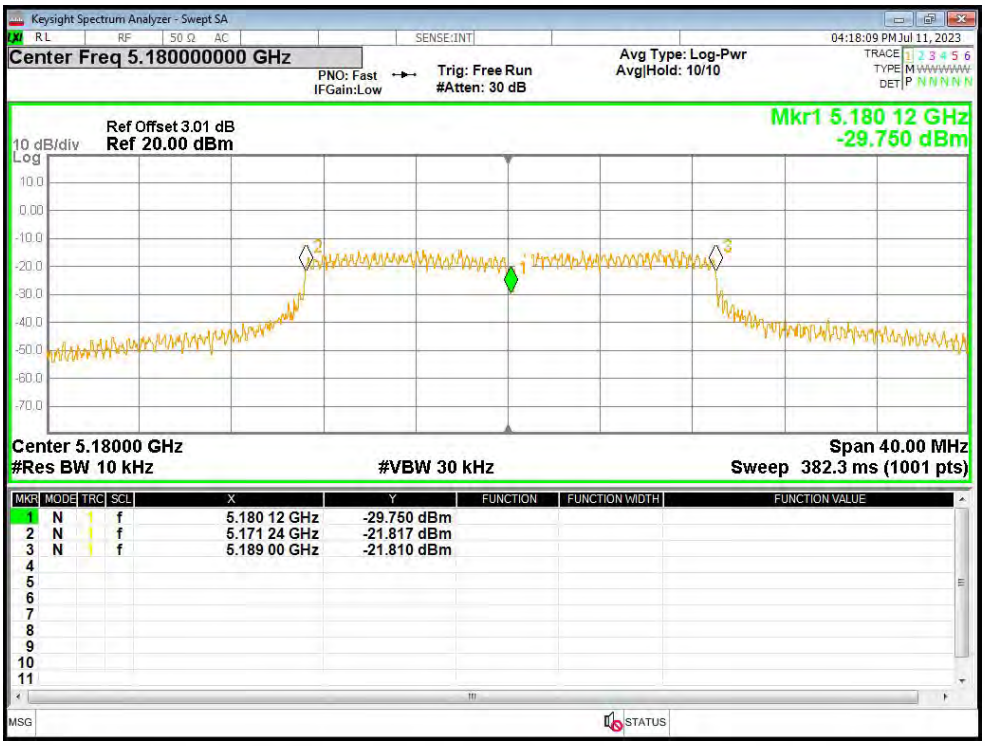
Freq. Stability NVNT ac40 5190MHz Ant1


Freq. Stability NVNT ac40 5230MHz Ant1



Freq. Stability NVNT ac80 5210MHz Ant1


Freq. Stability NVNT ac20 5180MHz Ant1



Freq. Stability NVNT ac20 5200MHz Ant1

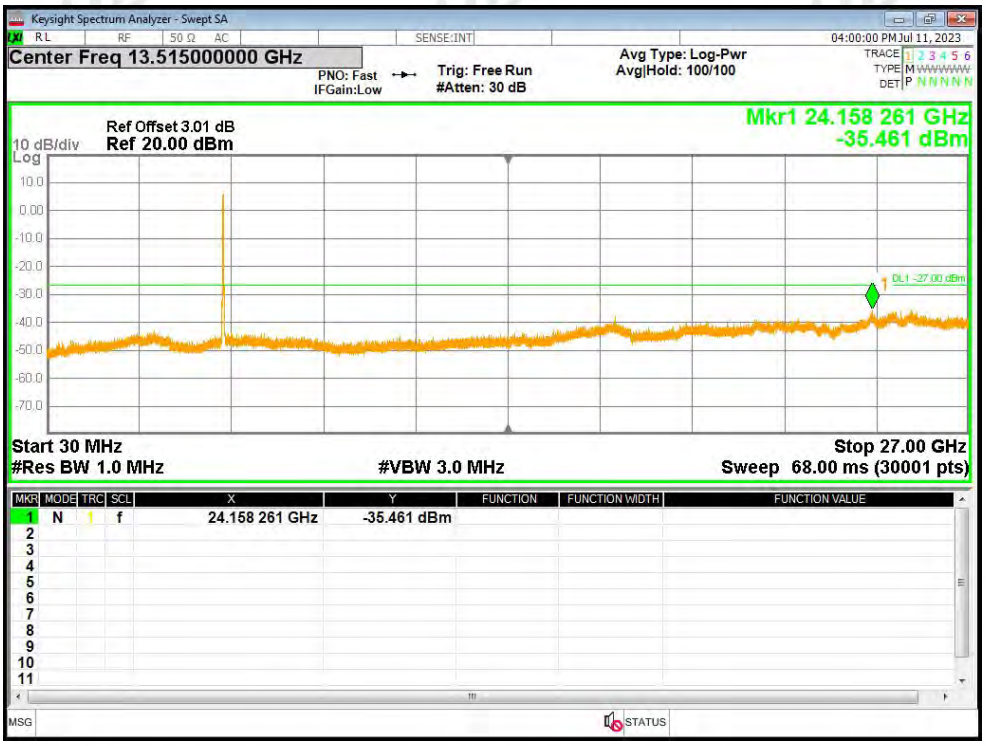

Freq. Stability NVNT ac20 5240MHz Ant1

## A.8 Conducted RF Spurious Emission

| Condition | Mode | Frequency (MHz) | Antenna | Mac Value (dBc) | Limit (dBc) | Verdict |
|---|---|---|---|---|---|---|
| NVNT | a | 5180 | Ant1 | -35.46 | -27 | Pass |
| NVNT | a | 5200 | Ant1 | -35.81 | -27 | Pass |
| NVNT | a | 5240 | Ant1 | -36.38 | -27 | Pass |
| NVNT | n20 | 5180 | Ant1 | -35.46 | -27 | Pass |
| NVNT | n20 | 5200 | Ant1 | -36.23 | -27 | Pass |
| NVNT | n20 | 5240 | Ant1 | -36.22 | -27 | Pass |
| NVNT | n40 | 5190 | Ant1 | -35.51 | -27 | Pass |
| NVNT | n40 | 5230 | Ant1 | -35.93 | -27 | Pass |
| NVNT | ac40 | 5190 | Ant1 | -35.02 | -27 | Pass |
| NVNT | ac40 | 5230 | Ant1 | -35.95 | -27 | Pass |
| NVNT | ac80 | 5210 | Ant1 | -36.13 | -27 | Pass |
| NVNT | ac20 | 5180 | Ant1 | -35.48 | -27 | Pass |
| NVNT | ac20 | 5200 | Ant1 | -36.38 | -27 | Pass |
| NVNT | ac20 | 5240 | Ant1 | -36 | -27 | Pass |

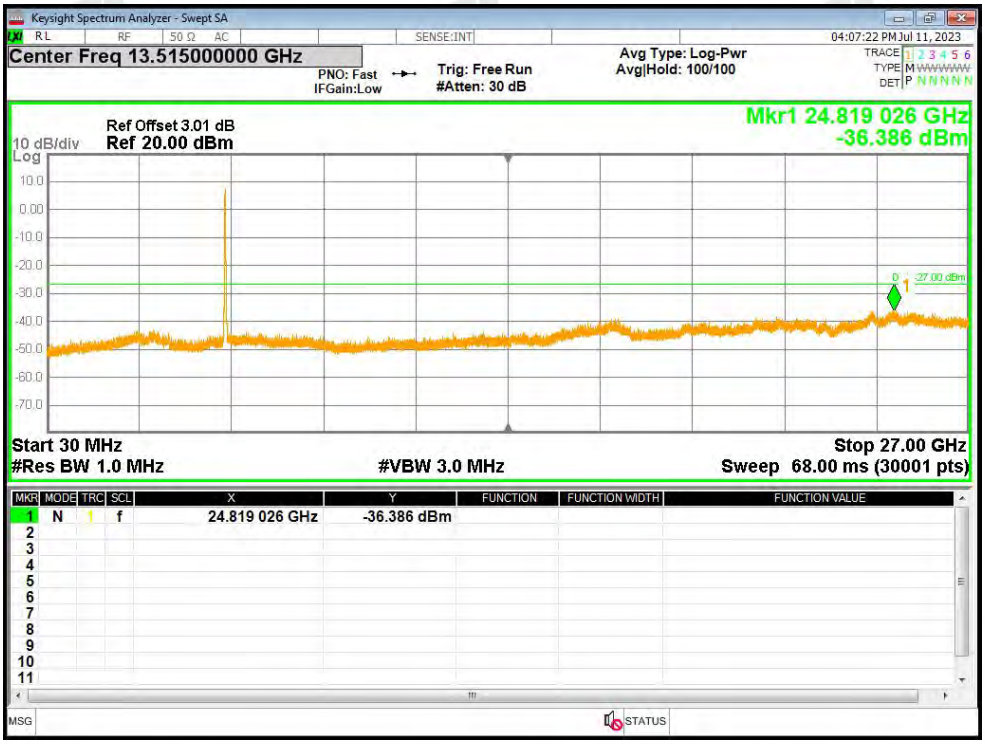
Test Graphs

Tx. Spurious NVNT a 5180MHz Ant1 Emission

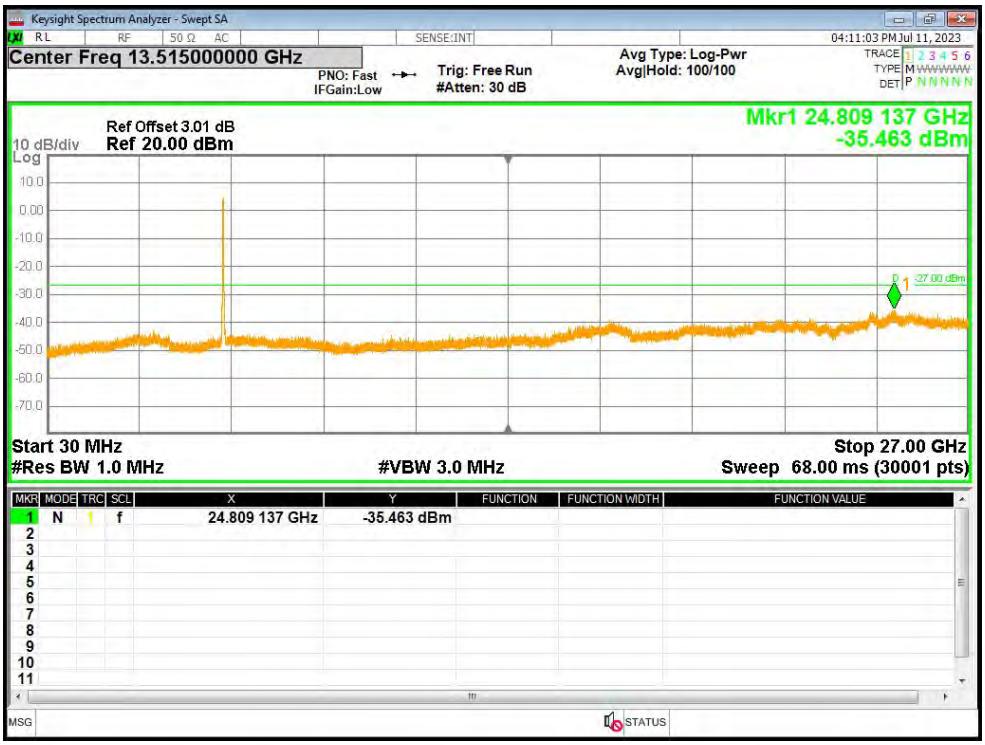



Tx. Spurious NVNT a 5200MHz Ant1 Emission

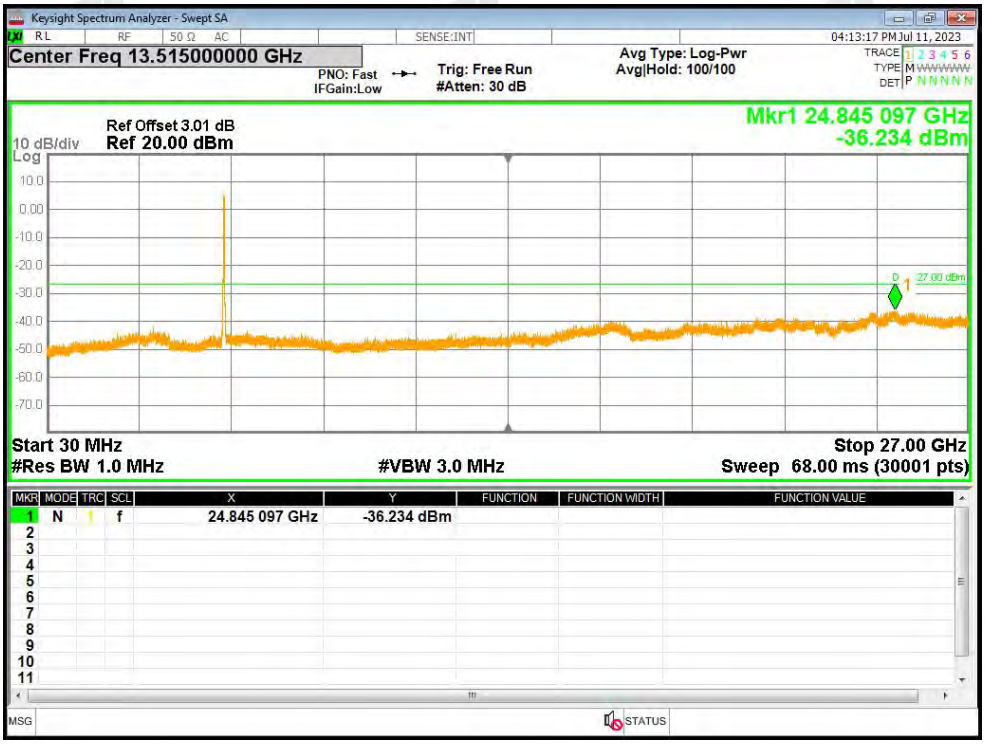
Tx. Spurious NVNT a 5240MHz Ant1 Emission



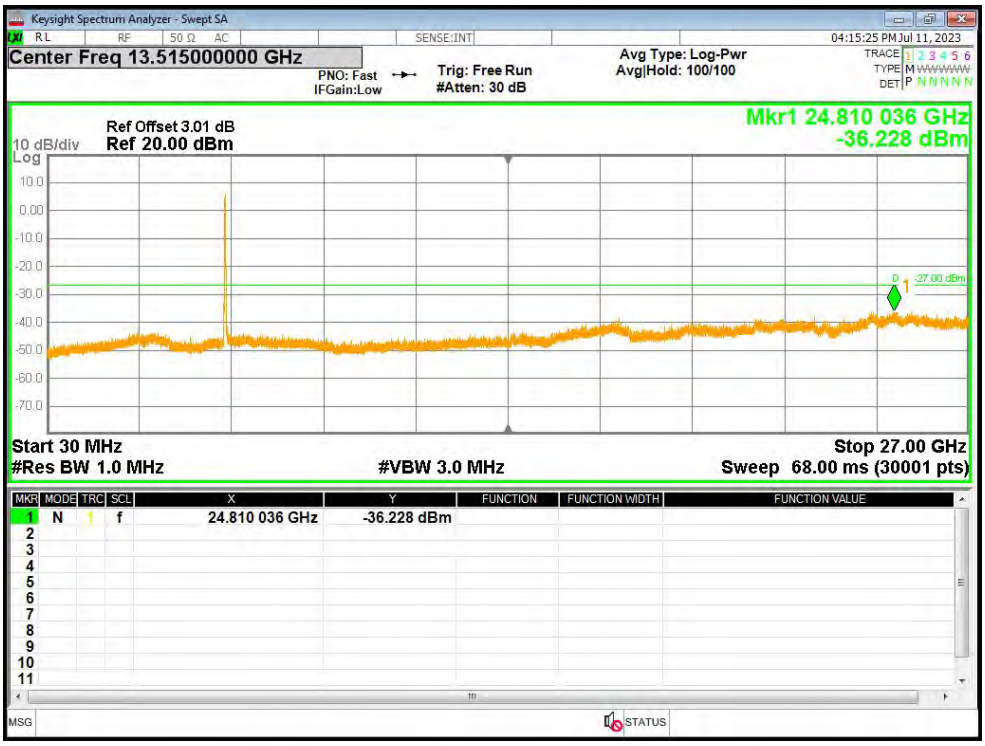

Tx. Spurious NVNT n20 5180MHz Ant1 Emission



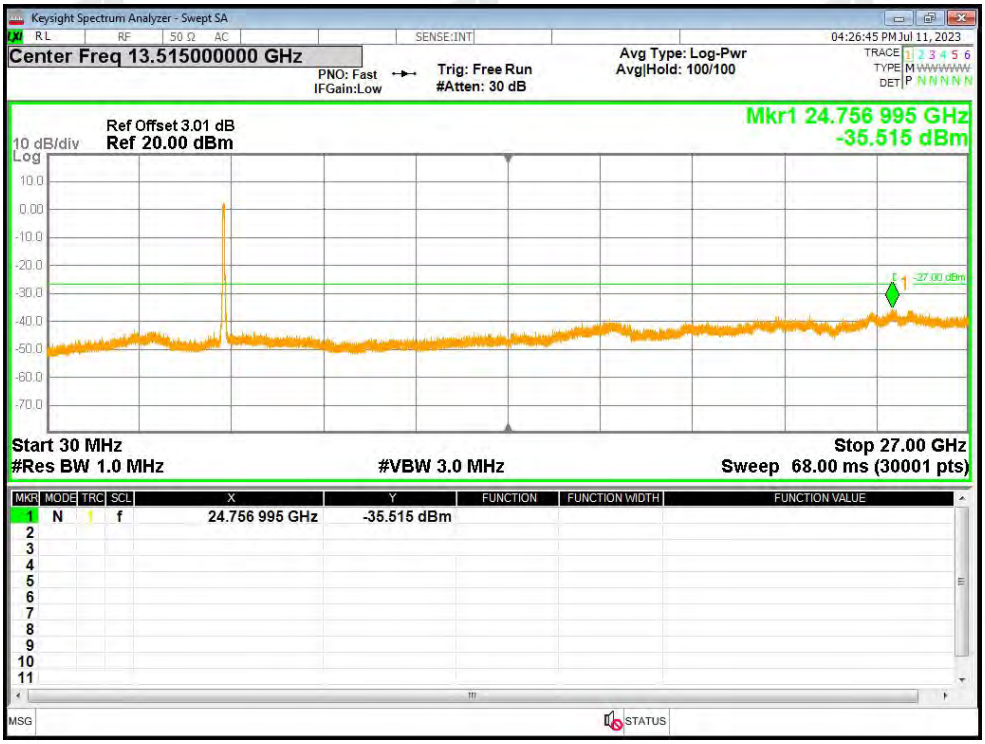
Tx. Spurious NVNT n20 5200MHz Ant1 Emission



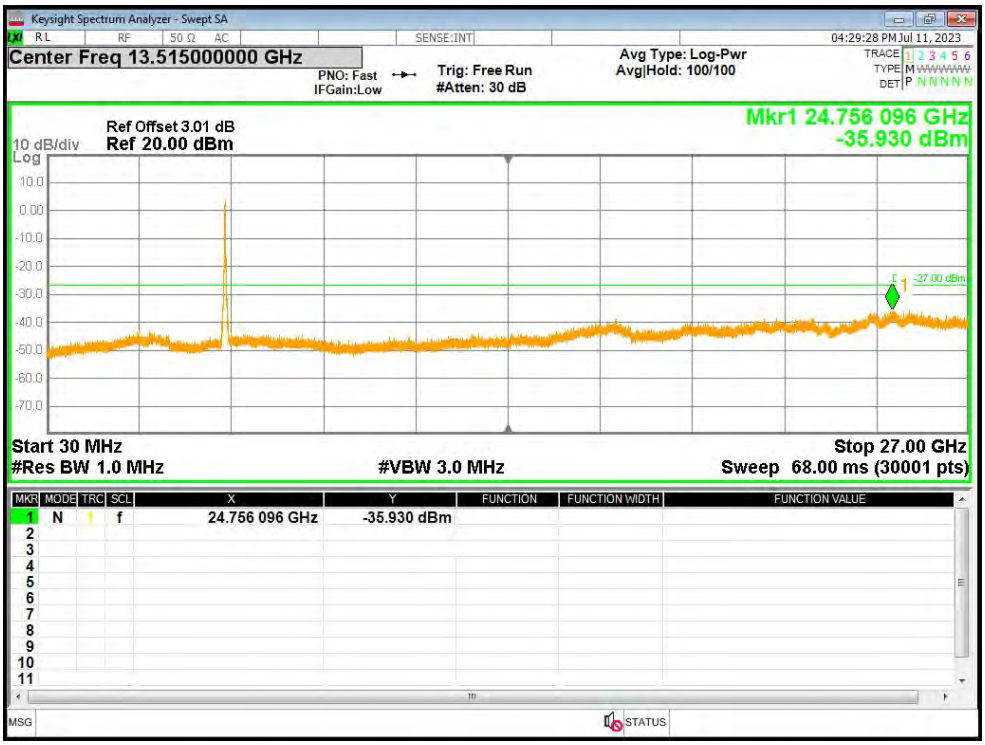

Tx. Spurious NVNT n20 5240MHz Ant1 Emission



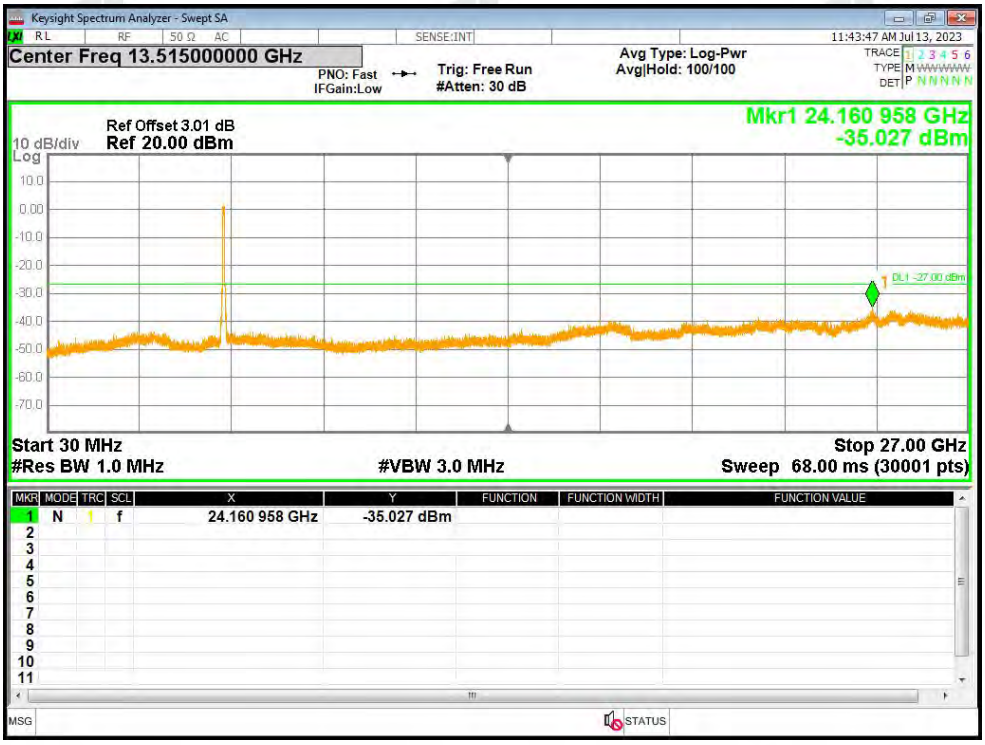
Tx. Spurious NVNT n40 5190MHz Ant1 Emission



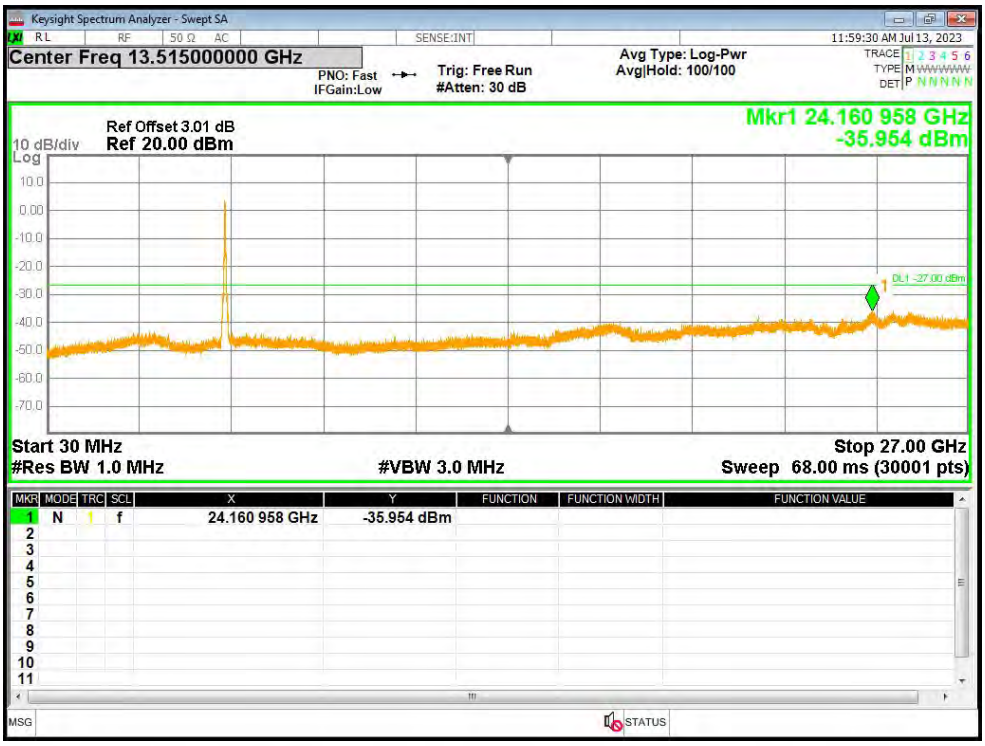

Tx. Spurious NVNT n40 5230MHz Ant1 Emission



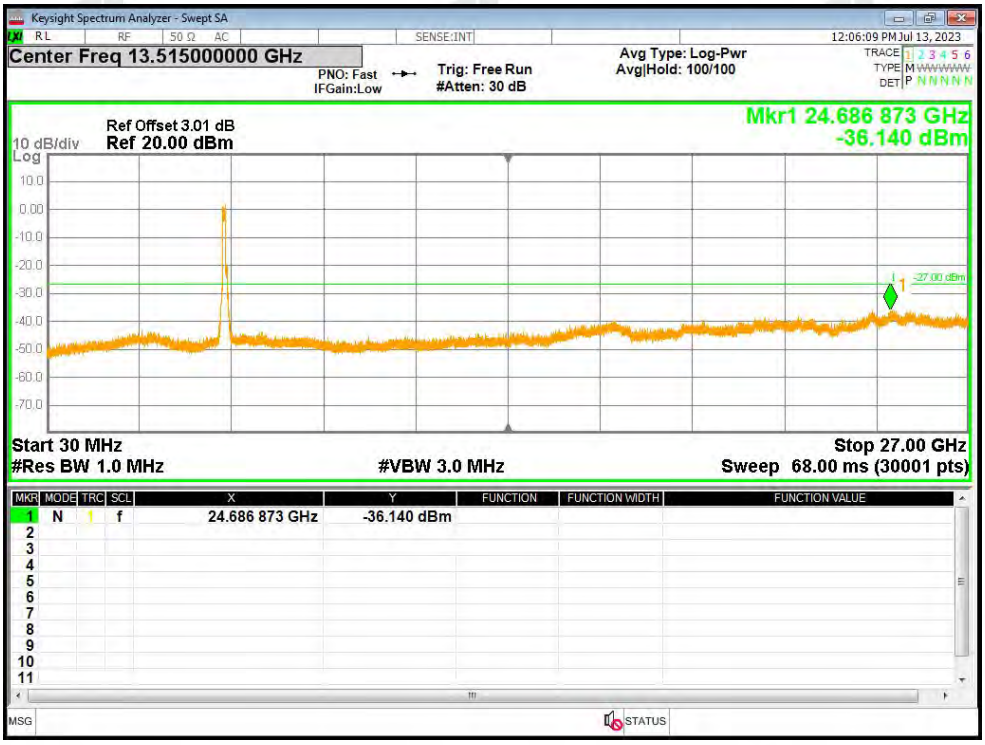
Tx. Spurious NVNT ac40 5190MHz Ant1 Emission



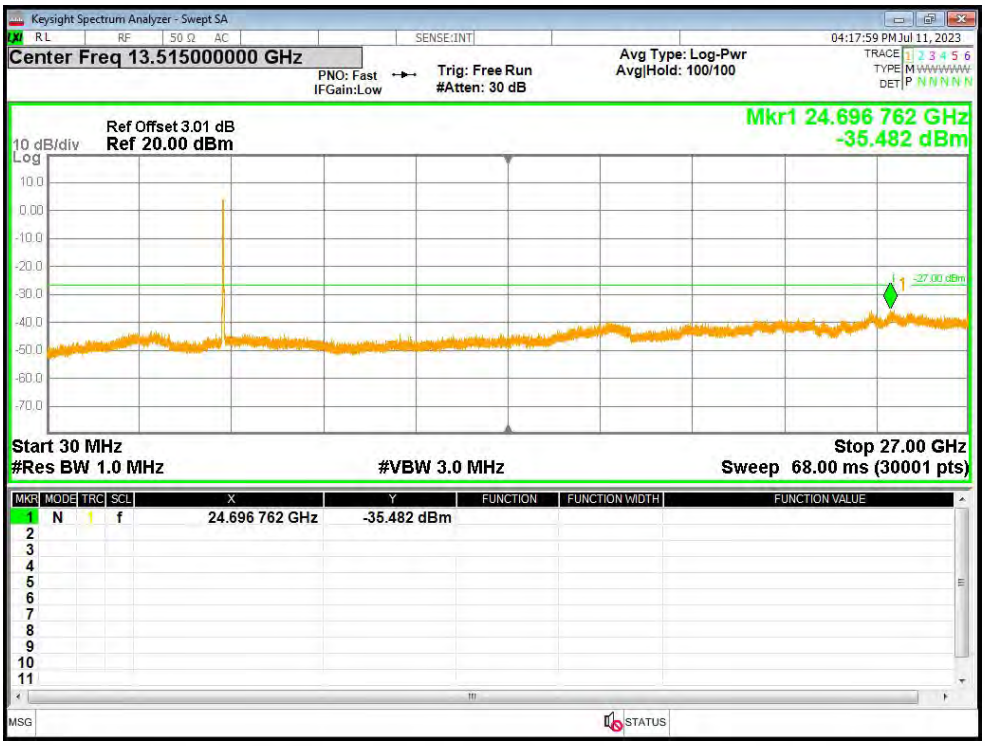

Tx. Spurious NVNT ac40 5230MHz Ant1 Emission



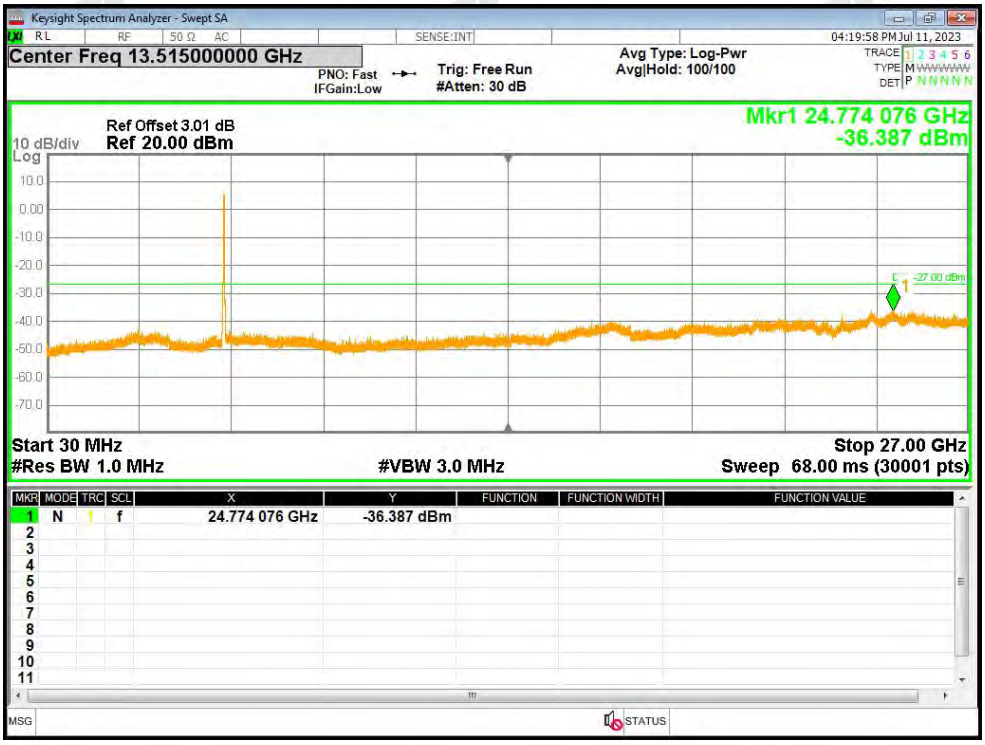
Tx. Spurious NVNT ac80 5210MHz Ant1 Emission




Tx. Spurious NVNT ac20 5180MHz Ant1 Emission



Tx. Spurious NVNT ac20 5200MHz Ant1 Emission




Tx. Spurious NVNT ac20 5240MHz Ant1 Emission