

ANNEX 2

FCC ID: 2A54Y-X7B

Applicant: Shenzhen TFIRETEK Technology Co, Ltd.

Address: Floor 2, Building A, Queshan Guanghao Industrial Park, Taoyuan Community, Dalang Street, Longhua District, Shenzhen

Manufacturer: Shenzhen TFIRETEK Technology Co, Ltd.

Address: Floor 2, Building A, Queshan Guanghao Industrial Park, Taoyuan Community, Dalang Street, Longhua District, Shenzhen

EUT: Projector

Trade Mark: N/A

Model Number: X7B, X7B-LAN, X7B-Pro, X7B-Max, X7B-Mate

Date of Receipt: Sep. 12, 2023

Test Date: Sep. 12, 2023 - Sep. 22, 2023

Date of Report: Sep. 22, 2023

Prepared By: Shenzhen DL Testing Technology Co., Ltd.

Address: 101-201, Building C, Shuanghuan, No.8, Baoqing Road, Baolong Industrial Zone, Baolong Street, Longgang District, Shenzhen, Guangdong, China

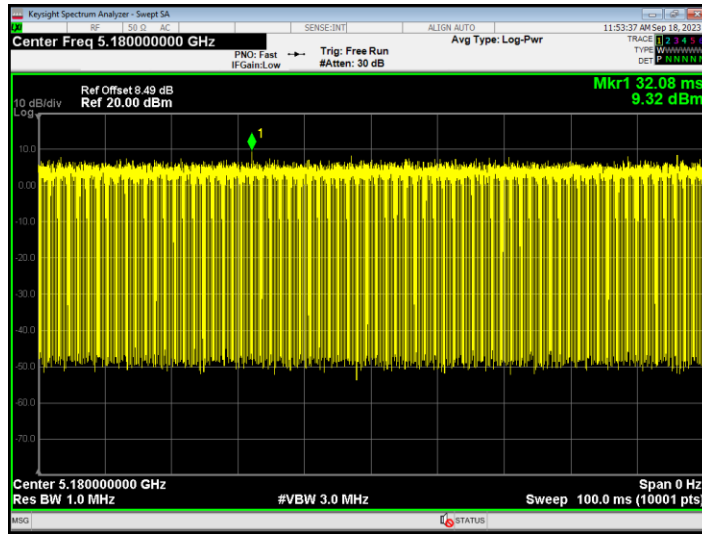
Applicable Standards: FCC PART 15 E 15.407
ANSI C63.10:2013

Test Result: Pass

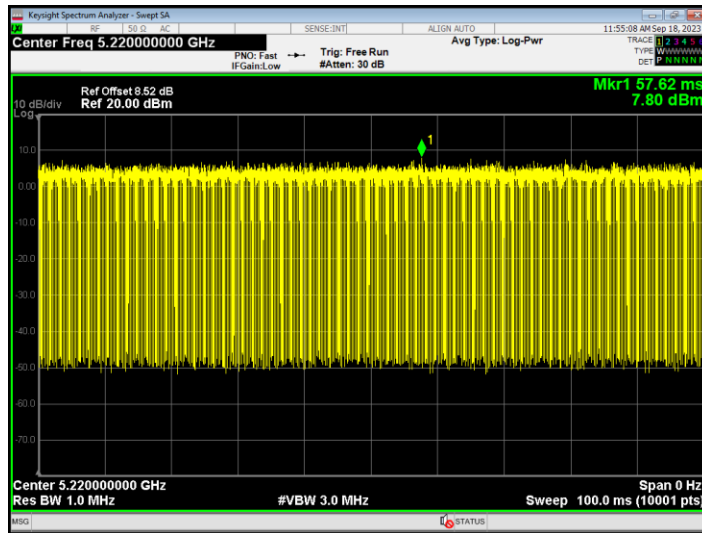
BAND 1**Duty Cycle**

| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) |
|-----------|------|-----------------|---------|----------------|------------------------|
| NVNT | a | 5180 | Ant1 | 85.39 | 0.69 |
| NVNT | a | 5220 | Ant1 | 85.36 | 0.69 |
| NVNT | a | 5240 | Ant1 | 85.44 | 0.68 |
| NVNT | n20 | 5180 | Ant1 | 97.59 | 0.11 |
| NVNT | n20 | 5220 | Ant1 | 97.58 | 0.11 |
| NVNT | n20 | 5240 | Ant1 | 97.63 | 0.1 |
| NVNT | n40 | 5190 | Ant1 | 95.35 | 0.21 |
| NVNT | n40 | 5230 | Ant1 | 95.38 | 0.21 |

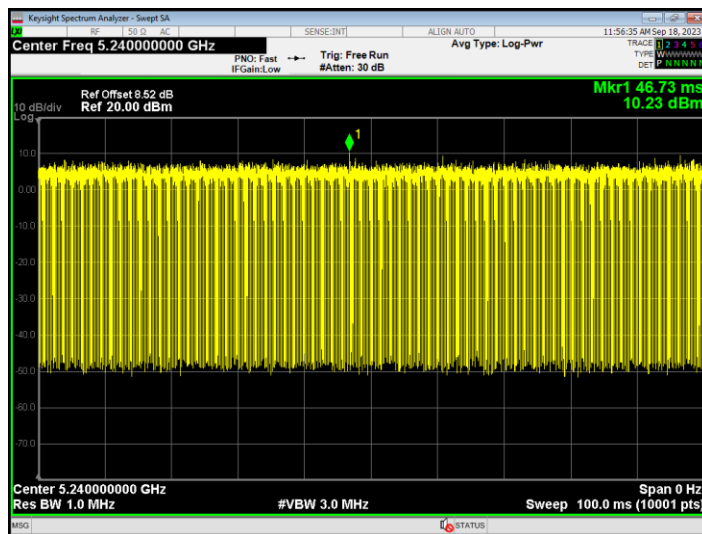
Duty Cycle NVNT a 5180MHz Ant1



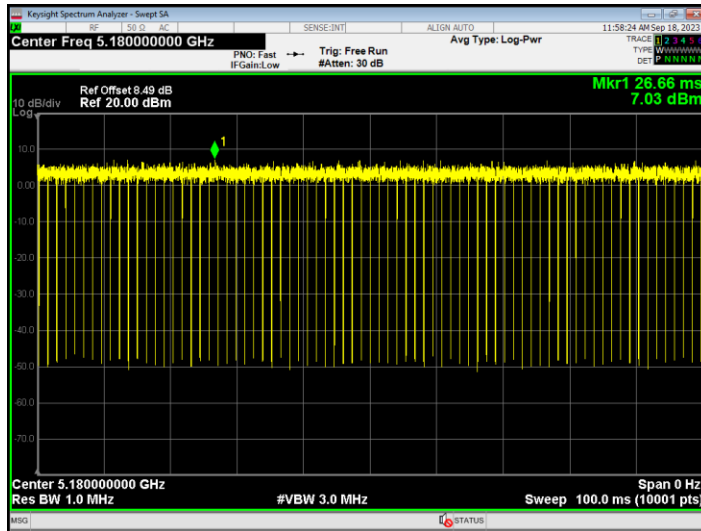
Duty Cycle NVNT a 5220MHz Ant1



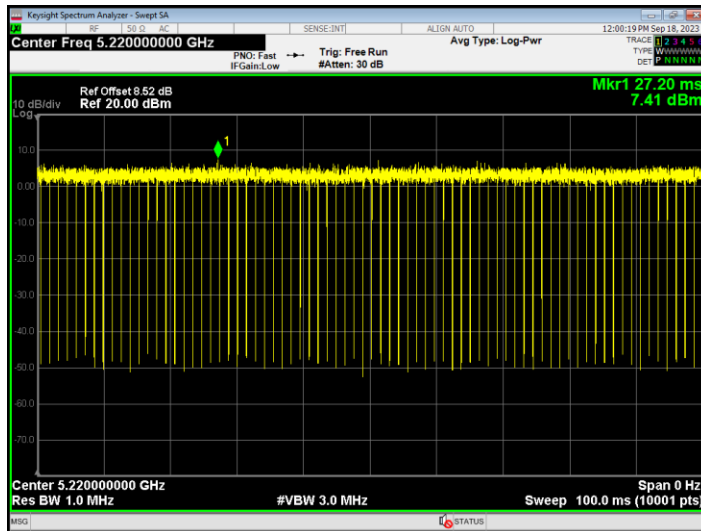
Duty Cycle NVNT a 5240MHz Ant1



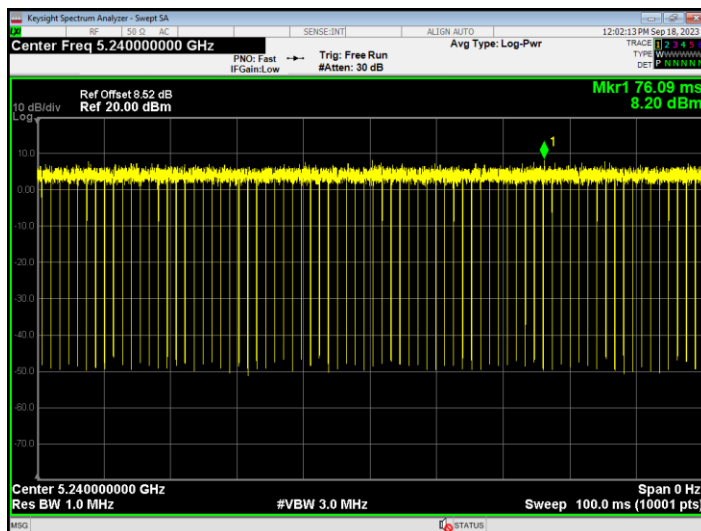
Duty Cycle NVNT n20 5180MHz Ant1



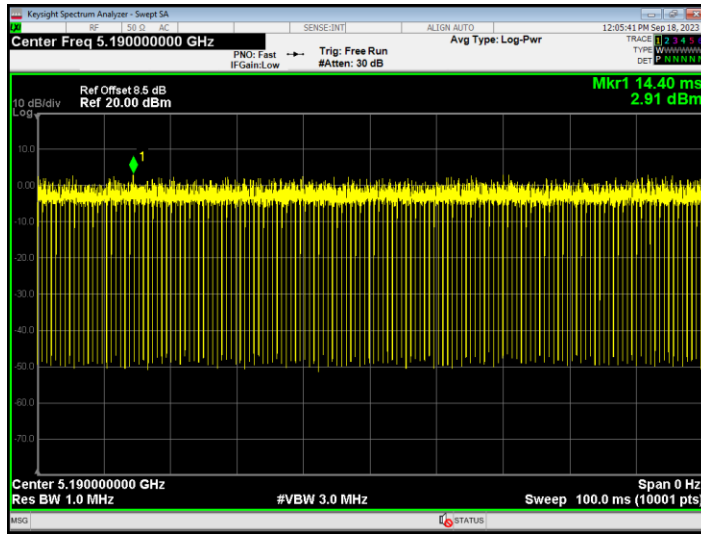
Duty Cycle NVNT n20 5220MHz Ant1



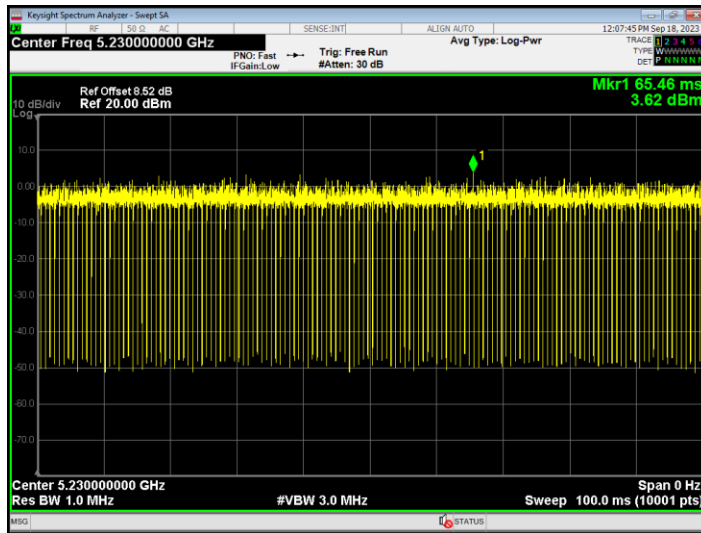
Duty Cycle NVNT n20 5240MHz Ant1



Duty Cycle NVNT n40 5190MHz Ant1



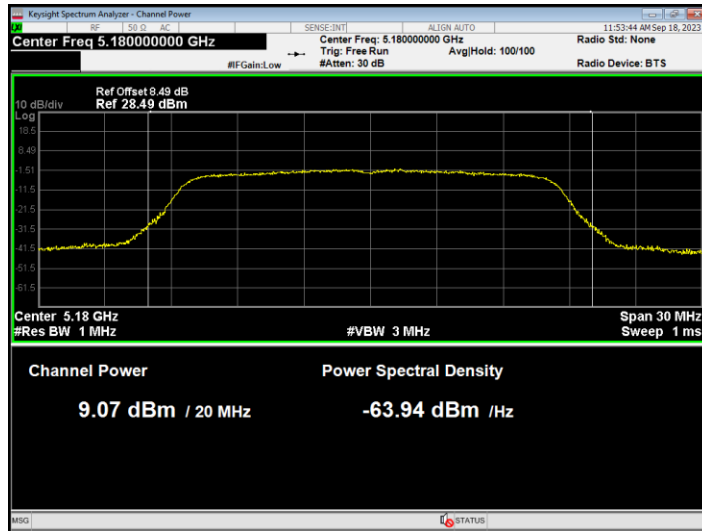
Duty Cycle NVNT n40 5230MHz Ant1



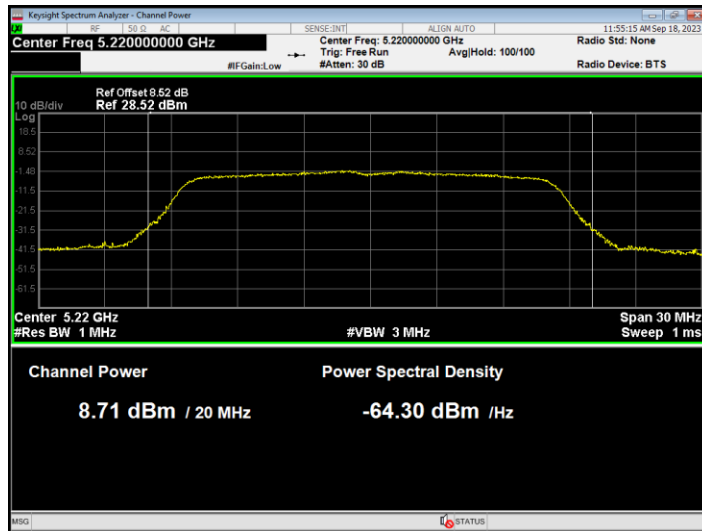
Maximum Conducted Output Power

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Duty Factor (dB) | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|------------------|-------------------|-------------|---------|
| NVNT | a | 5180 | Ant1 | 9.069 | 0.69 | 9.759 | 24 | Pass |
| NVNT | a | 5220 | Ant1 | 8.706 | 0.69 | 9.396 | 24 | Pass |
| NVNT | a | 5240 | Ant1 | 9.78 | 0.68 | 10.46 | 24 | Pass |
| NVNT | n20 | 5180 | Ant1 | 9.832 | 0.11 | 9.942 | 24 | Pass |
| NVNT | n20 | 5220 | Ant1 | 9.662 | 0.11 | 9.772 | 24 | Pass |
| NVNT | n20 | 5240 | Ant1 | 10.436 | 0.10 | 10.536 | 24 | Pass |
| NVNT | n40 | 5190 | Ant1 | 10.124 | 0.21 | 10.334 | 24 | Pass |
| NVNT | n40 | 5230 | Ant1 | 9.756 | 0.21 | 9.966 | 24 | Pass |

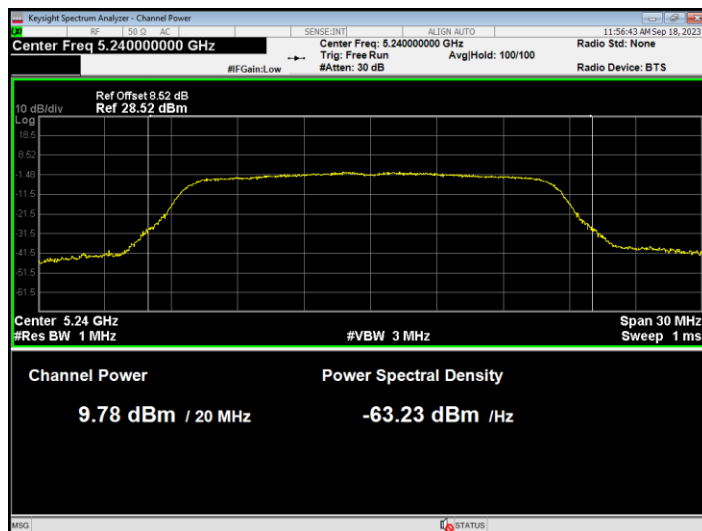
Power NVNT a 5180MHz Ant1



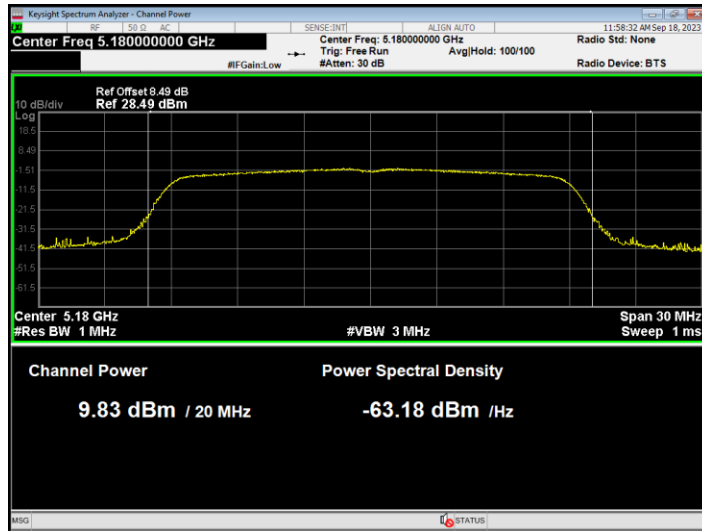
Power NVNT a 5220MHz Ant1



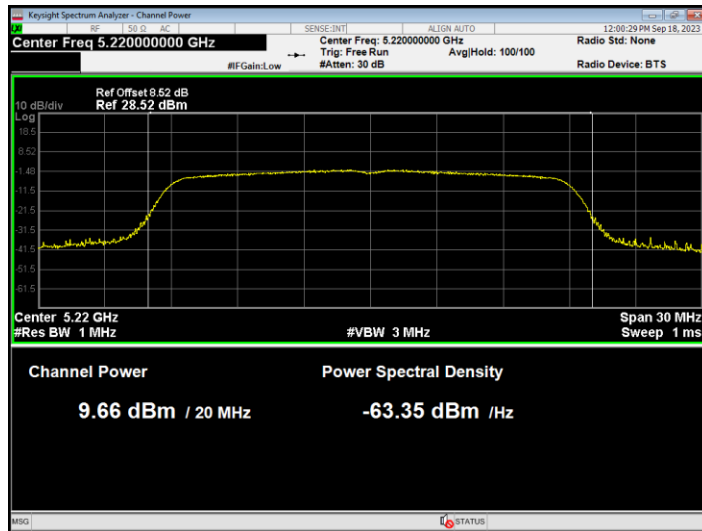
Power NVNT a 5240MHz Ant1



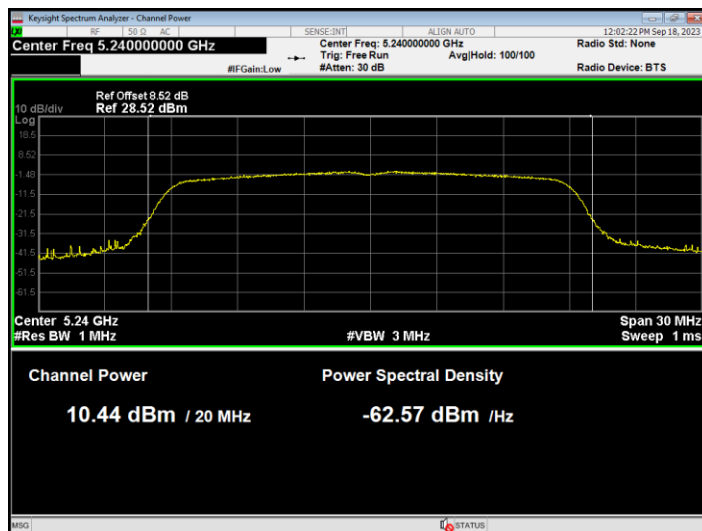
Power NVNT n20 5180MHz Ant1



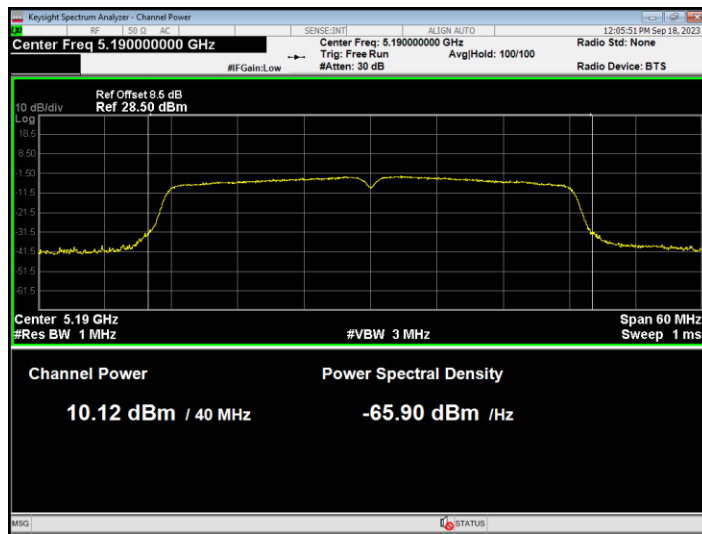
Power NVNT n20 5220MHz Ant1



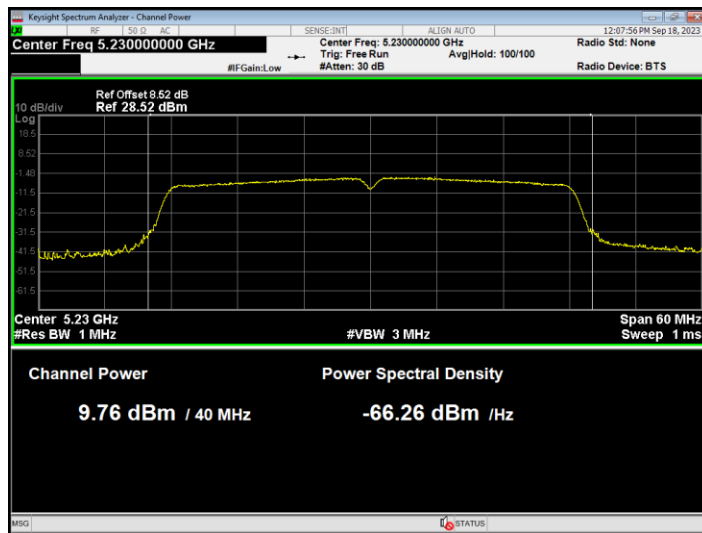
Power NVNT n20 5240MHz Ant1



Power NVNT n40 5190MHz Ant1



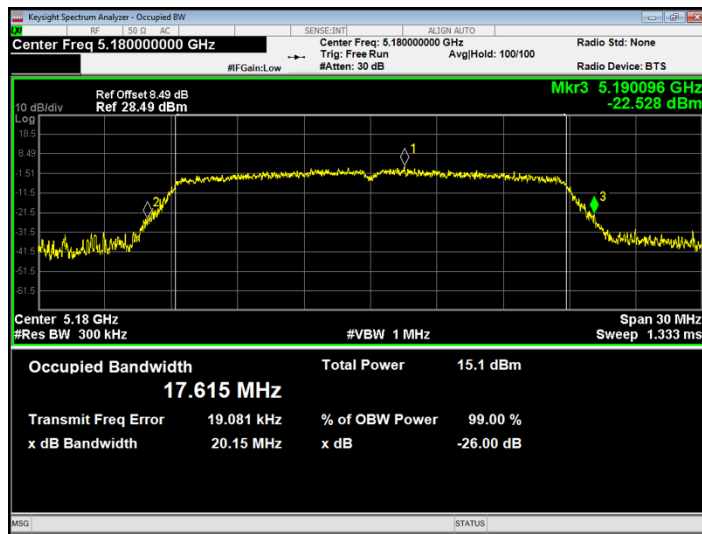
Power NVNT n40 5230MHz Ant1



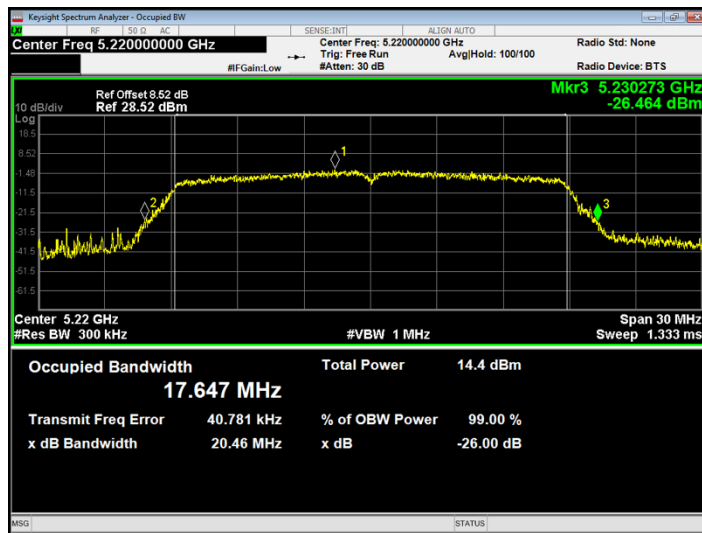
-26dB Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | -26 dB Bandwidth (MHz) | Limit -26 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|------------------------|------------------------------|---------|
| NVNT | a | 5180 | Ant1 | 20.15 | 0.5 | Pass |
| NVNT | a | 5220 | Ant1 | 20.47 | 0.5 | Pass |
| NVNT | a | 5240 | Ant1 | 20.30 | 0.5 | Pass |
| NVNT | n20 | 5180 | Ant1 | 20.32 | 0.5 | Pass |
| NVNT | n20 | 5220 | Ant1 | 20.37 | 0.5 | Pass |
| NVNT | n20 | 5240 | Ant1 | 20.44 | 0.5 | Pass |
| NVNT | n40 | 5190 | Ant1 | 39.48 | 0.5 | Pass |
| NVNT | n40 | 5230 | Ant1 | 39.87 | 0.5 | Pass |

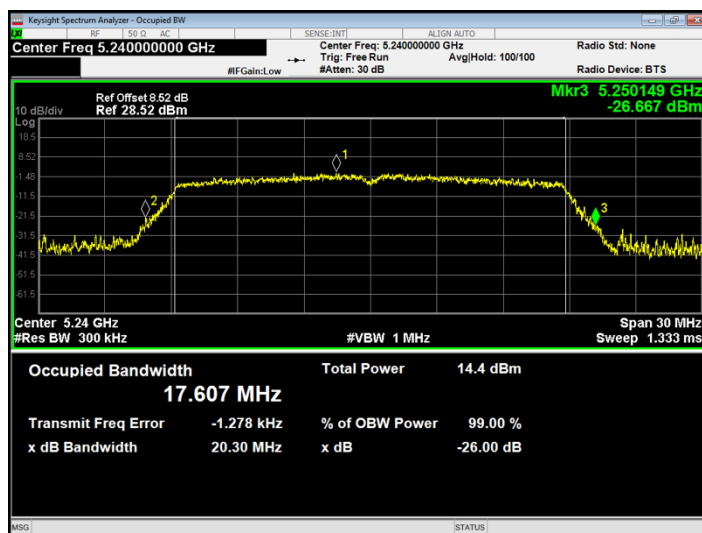
-26dB Bandwidth NVNT a 5180MHz Ant1



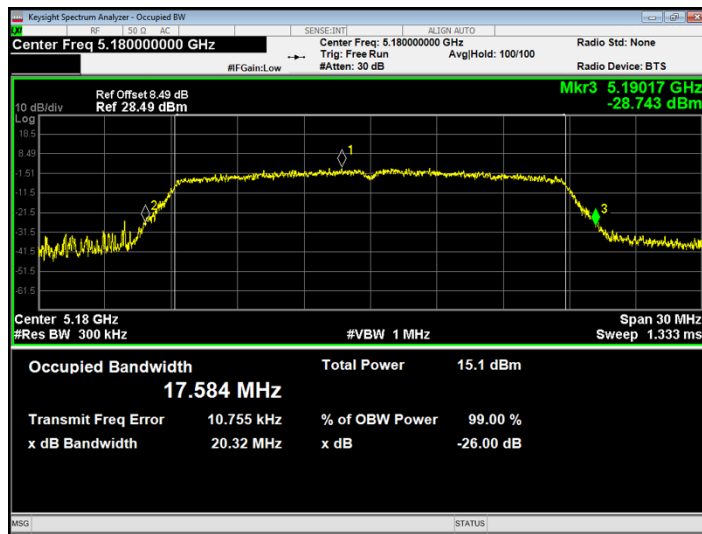
-26dB Bandwidth NVNT a 5220MHz Ant1



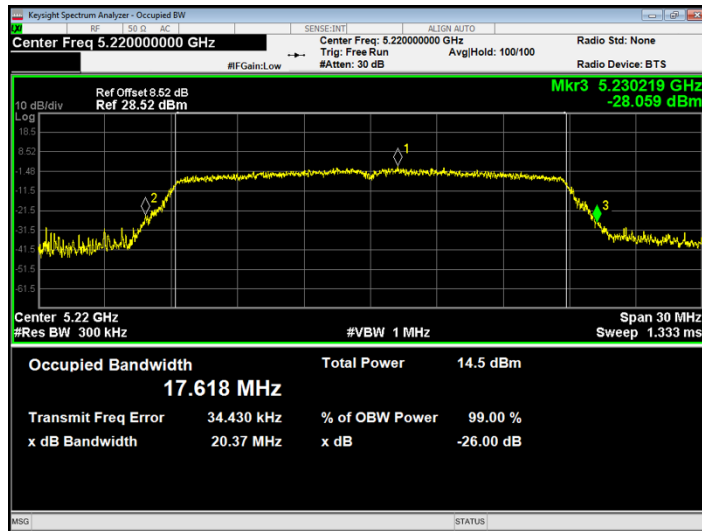
-26dB Bandwidth NVNT a 5240MHz Ant1



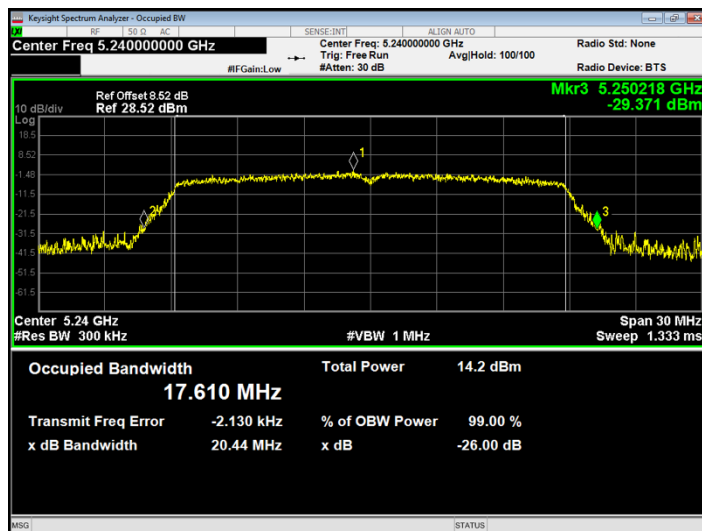
-26dB Bandwidth NVNT n20 5180MHz Ant1



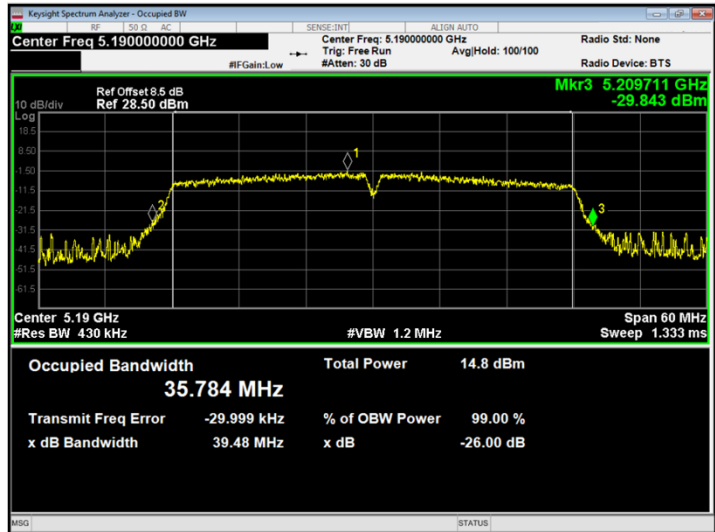
-26dB Bandwidth NVNT n20 5220MHz Ant1



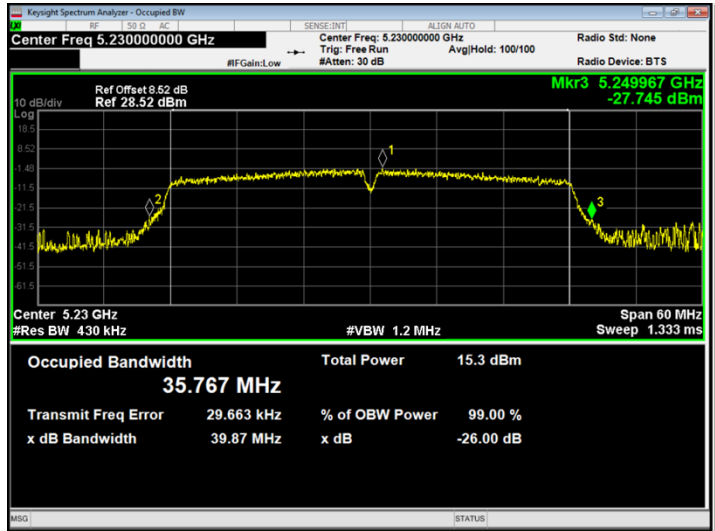
-26dB Bandwidth NVNT n20 5240MHz Ant1



-26dB Bandwidth NVNT n40 5190MHz Ant1



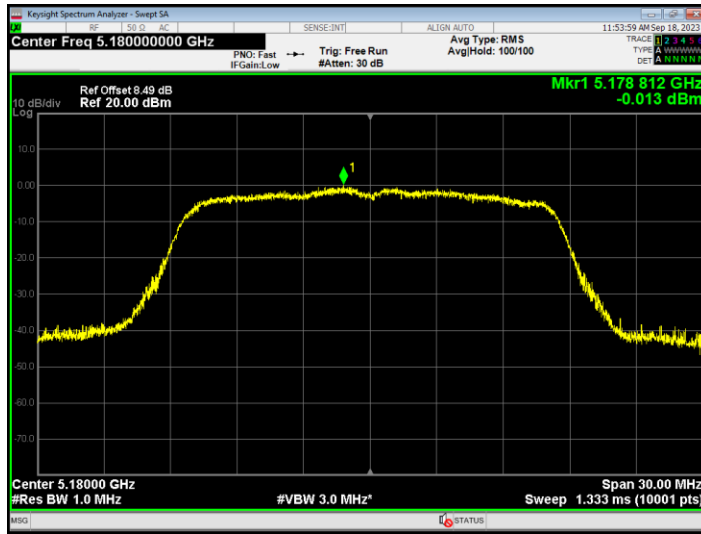
-26dB Bandwidth NVNT n40 5230MHz Ant1



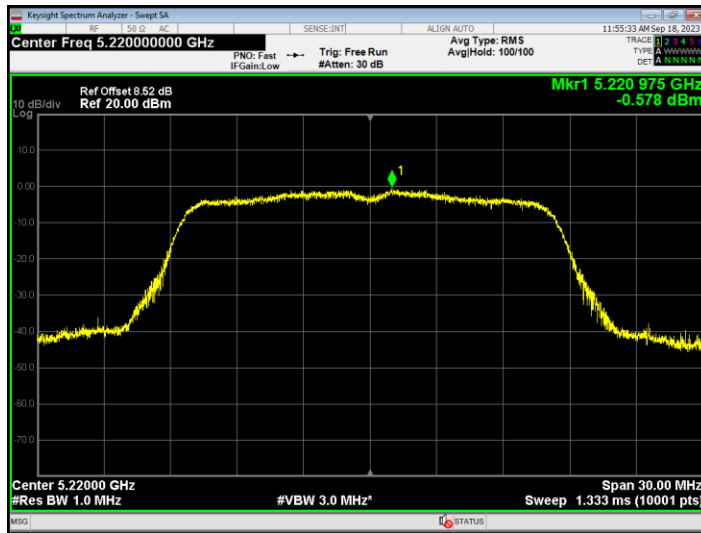
Maximum Power Spectral Density Level

| Condition | Mode | Frequency (MHz) | Antenna | Max PSD (dBm) | Duty Factor (dB) | Total PSD (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|---------------|------------------|-----------------|-------------|---------|
| NVNT | a | 5180 | Ant1 | -0.013 | 0.69 | 0.677 | 11 | Pass |
| NVNT | a | 5220 | Ant1 | -0.578 | 0.69 | 0.112 | 11 | Pass |
| NVNT | a | 5240 | Ant1 | 0.948 | 0.68 | 1.628 | 11 | Pass |
| NVNT | n20 | 5180 | Ant1 | 0.078 | 0.11 | 0.188 | 11 | Pass |
| NVNT | n20 | 5220 | Ant1 | -0.277 | 0.11 | -0.167 | 11 | Pass |
| NVNT | n20 | 5240 | Ant1 | 0.777 | 0.1 | 0.877 | 11 | Pass |
| NVNT | n40 | 5190 | Ant1 | -2.819 | 0.21 | -2.609 | 11 | Pass |
| NVNT | n40 | 5230 | Ant1 | -2.677 | 0.21 | -2.467 | 11 | Pass |

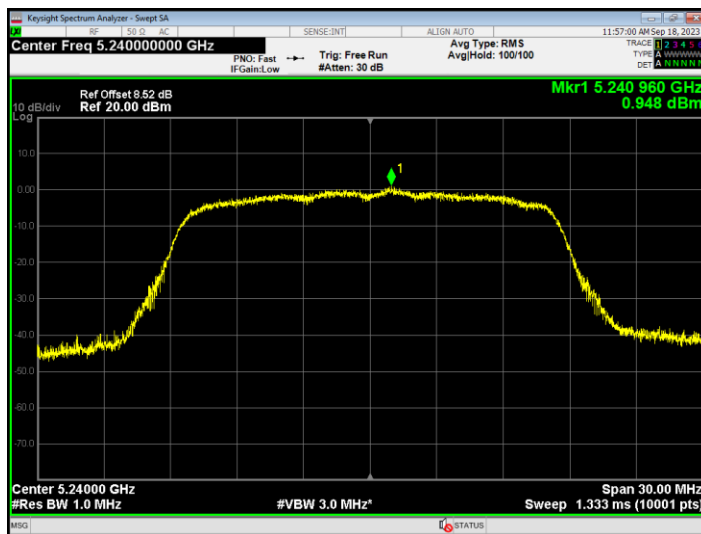
PSD NVNT a 5180MHz Ant1



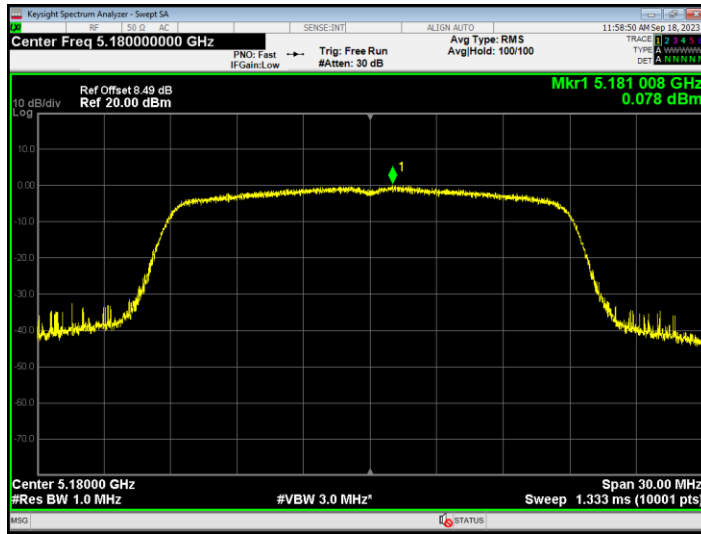
PSD NVNT a 5220MHz Ant1



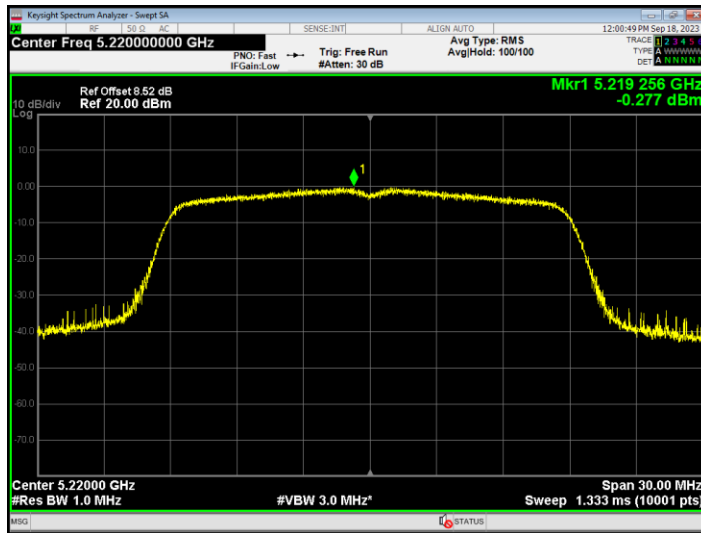
PSD NVNT a 5240MHz Ant1



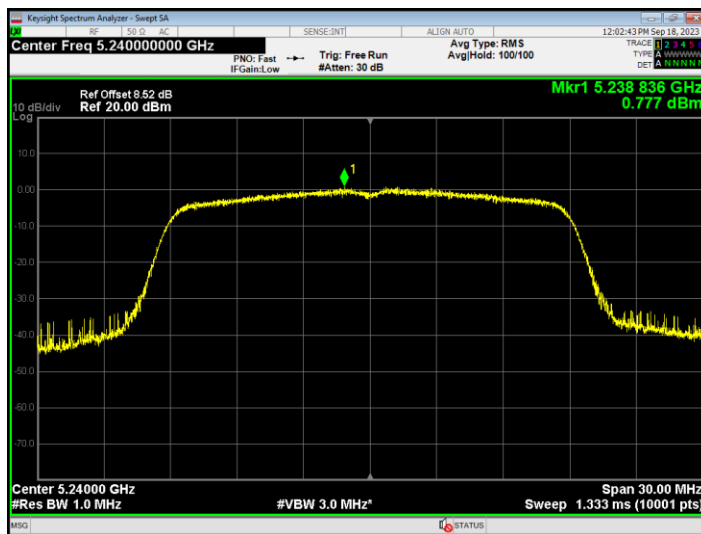
PSD NVNT n20 5180MHz Ant1



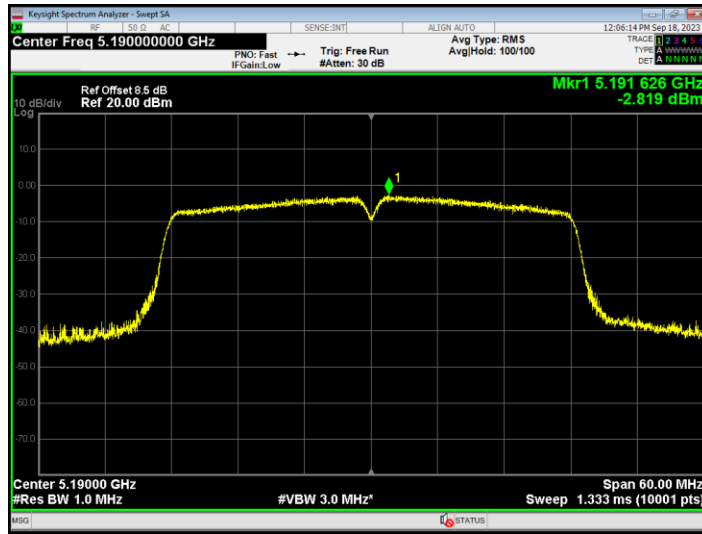
PSD NVNT n20 5220MHz Ant1



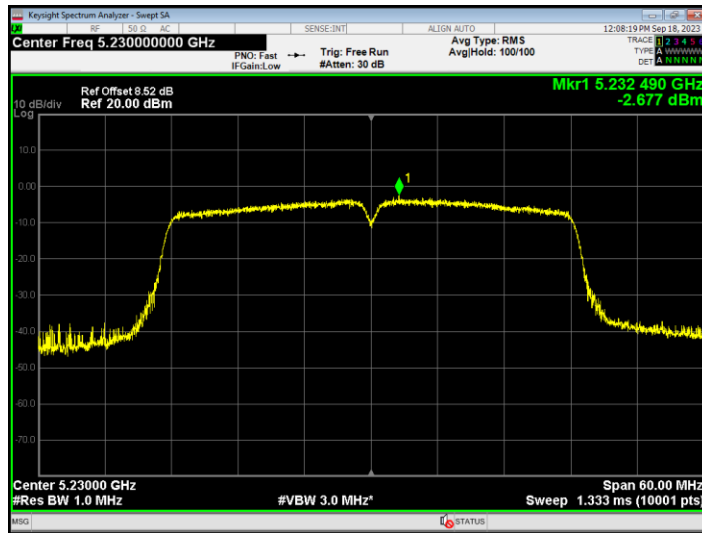
PSD NVNT n20 5240MHz Ant1



PSD NVNT n40 5190MHz Ant1



PSD NVNT n40 5230MHz Ant1

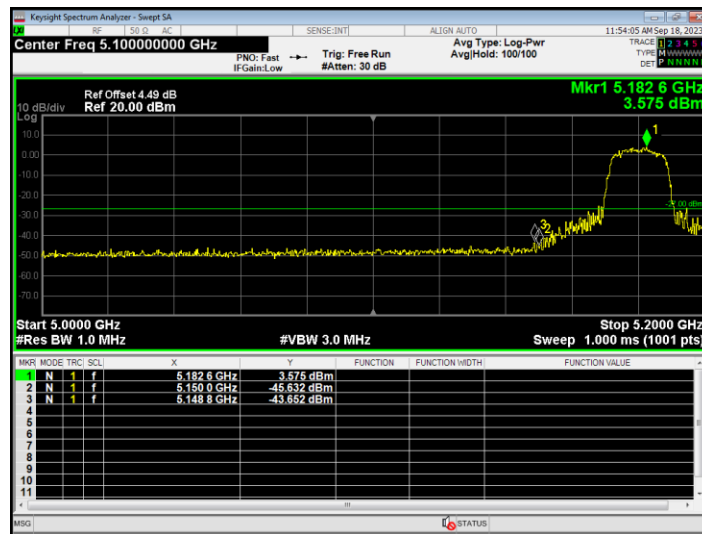


Band Edge

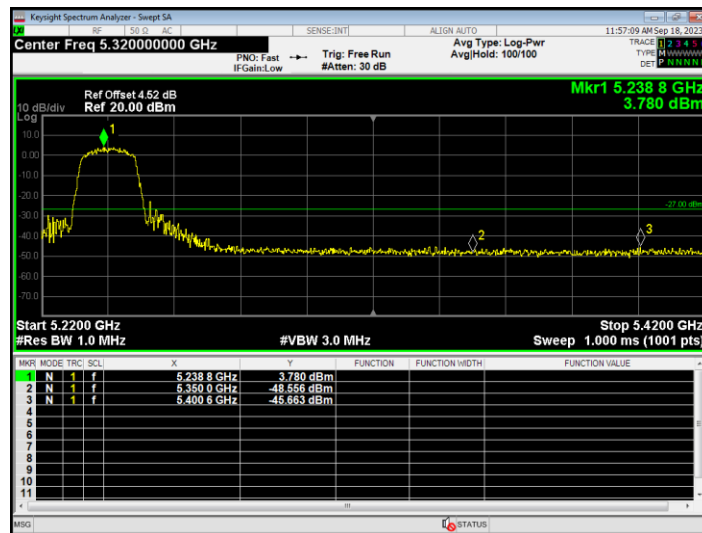
| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT | a | 5180 | Ant1 | -43.65 | -27 | Pass |
| NVNT | a | 5240 | Ant1 | -45.66 | -27 | Pass |
| NVNT | n20 | 5180 | Ant1 | -37.7 | -27 | Pass |
| NVNT | n20 | 5240 | Ant1 | -45.28 | -27 | Pass |
| NVNT | n40 | 5190 | Ant1 | -32.99 | -27 | Pass |
| NVNT | n40 | 5230 | Ant1 | -45.55 | -27 | Pass |

Ref offset=antenna gain + cable loss+ duty cycle factor

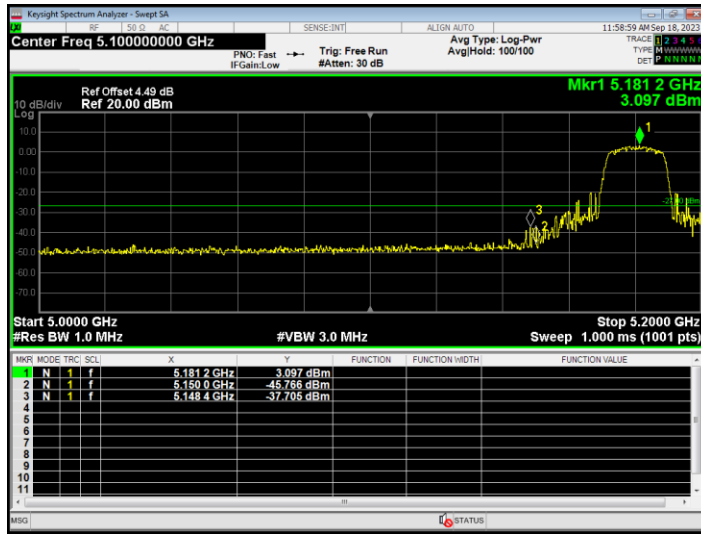
Band Edge NVNT a 5180MHz Low Ant1



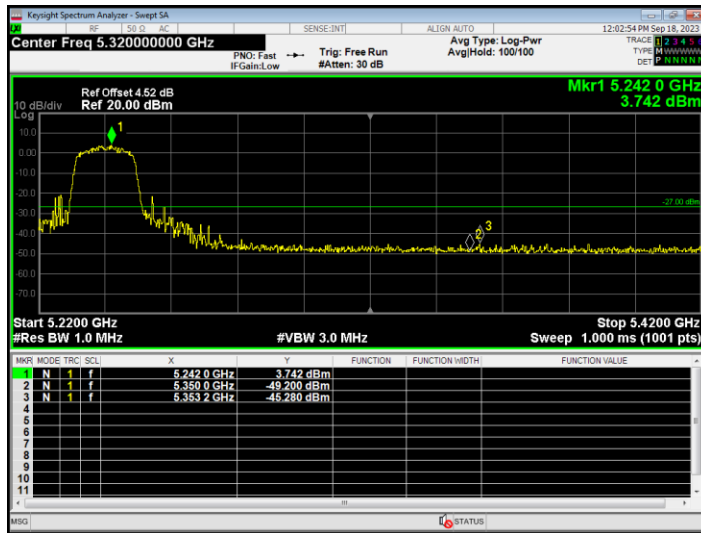
Band Edge NVNT a 5240MHz High Ant1



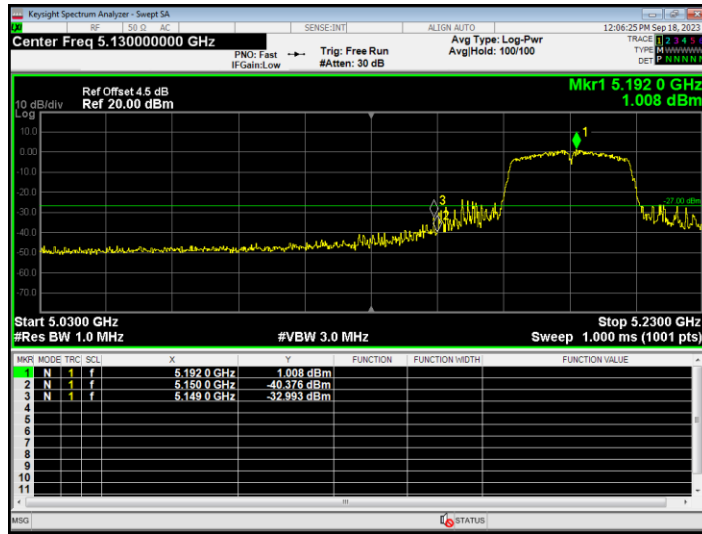
Band Edge NVNT n20 5180MHz Low Ant1



Band Edge NVNT n20 5240MHz High Ant1



Band Edge NVNT n40 5190MHz Low Ant1



Band Edge NVNT n40 5230MHz High Ant1

