

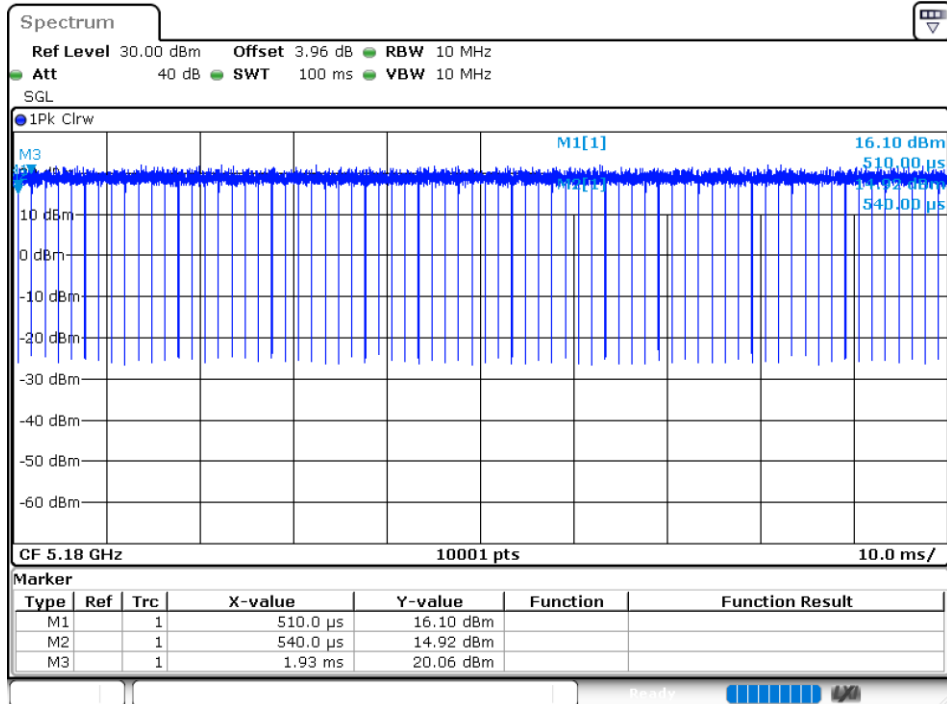
## 5.2G WIFI

### Duty Cycle

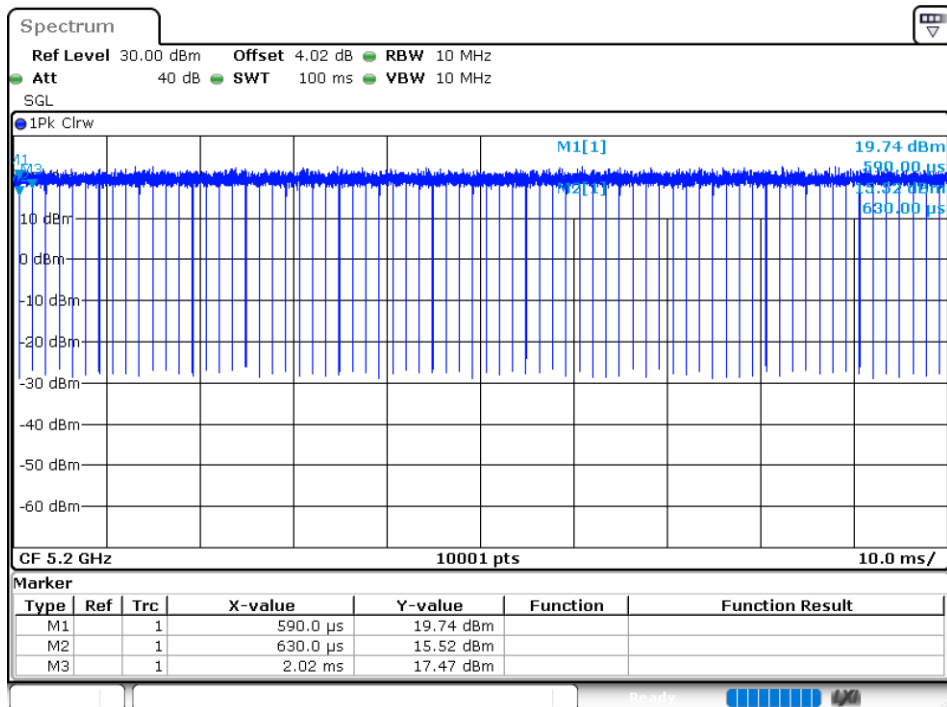
| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|------|-----------------|---------|----------------|------------------------|-----------|
| NVNT      | a    | 5180            | Ant1    | 98.2           | 0.08                   | 0.72      |
| NVNT      | a    | 5200            | Ant1    | 98.2           | 0.08                   | 0.72      |
| NVNT      | a    | 5240            | Ant1    | 98.19          | 0.08                   | 0.72      |
| NVNT      | n20  | 5180            | Ant1    | 98.07          | 0.08                   | 0.77      |
| NVNT      | n20  | 5200            | Ant1    | 98.07          | 0.08                   | 0.77      |
| NVNT      | n20  | 5240            | Ant1    | 98.06          | 0.09                   | 0.77      |
| NVNT      | n40  | 5190            | Ant1    | 92.8           | 0.32                   | 1.56      |
| NVNT      | n40  | 5230            | Ant1    | 95.45          | 0.2                    | 1.54      |
| NVNT      | ac20 | 5180            | Ant1    | 98.07          | 0.08                   | 0.76      |
| NVNT      | ac20 | 5200            | Ant1    | 98.07          | 0.08                   | 0.76      |
| NVNT      | ac20 | 5240            | Ant1    | 98.02          | 0.09                   | 0.76      |
| NVNT      | ac40 | 5190            | Ant1    | 95.49          | 0.2                    | 1.54      |
| NVNT      | ac40 | 5230            | Ant1    | 94.8           | 0.23                   | 1.52      |
| NVNT      | ac80 | 5210            | Ant1    | 85.76          | 0.67                   | 3.03      |

## Test Graphs

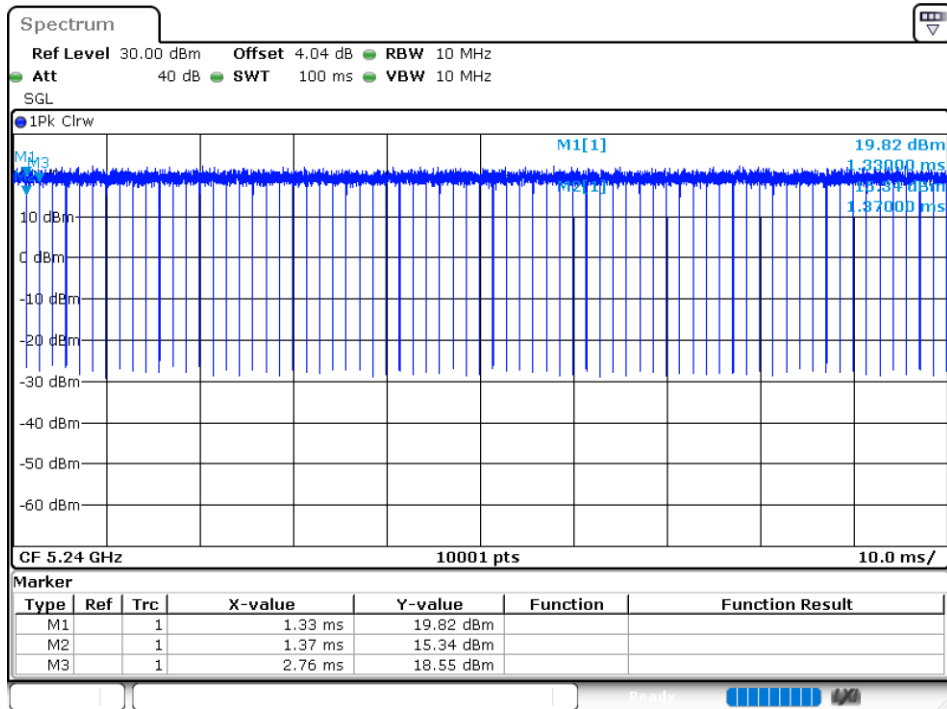
### Duty Cycle NVNT a 5180MHz Ant1



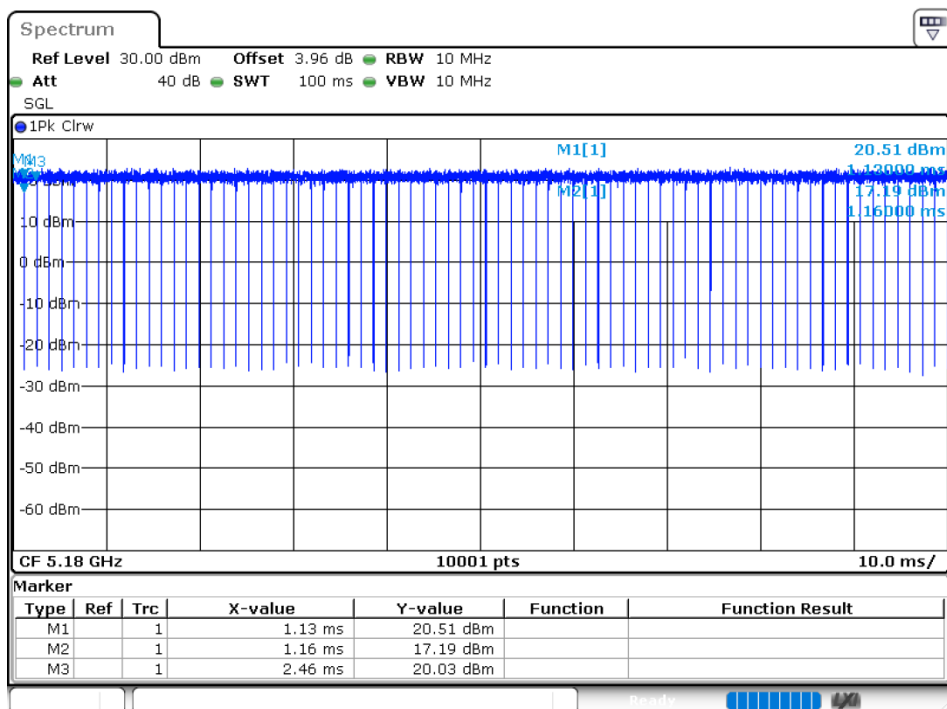
### Duty Cycle NVNT a 5200MHz Ant1



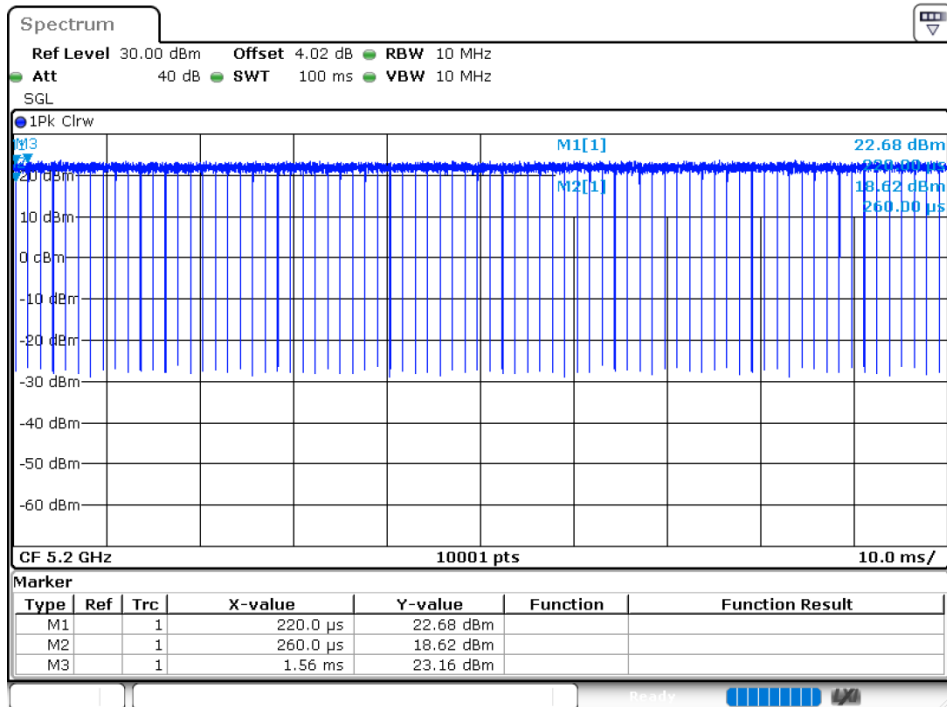
### Duty Cycle NVNT a 5240MHz Ant1



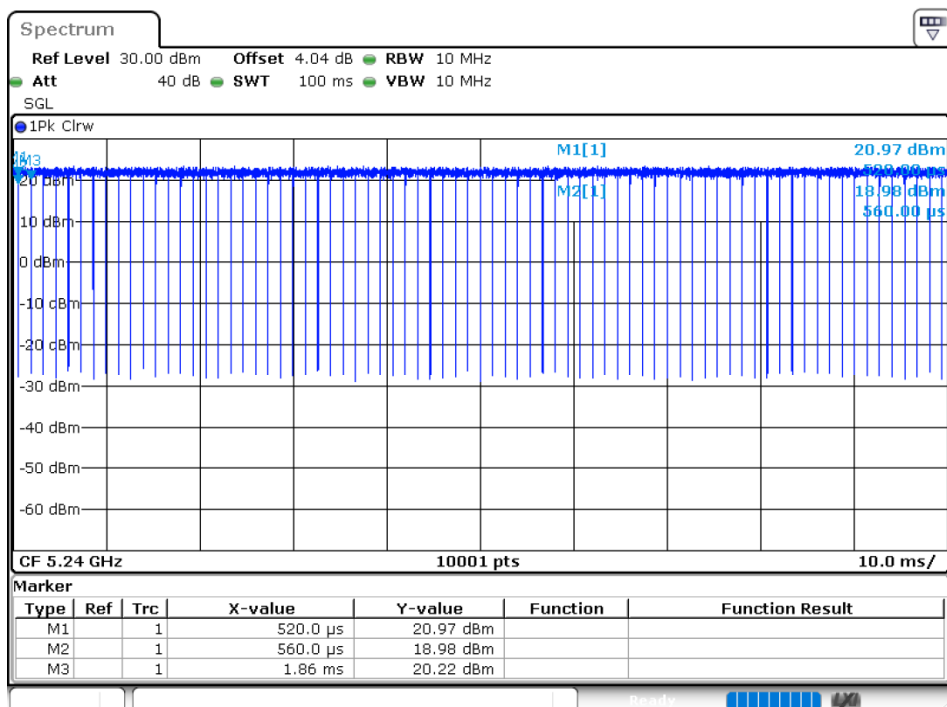
### Duty Cycle NVNT n20 5180MHz Ant1



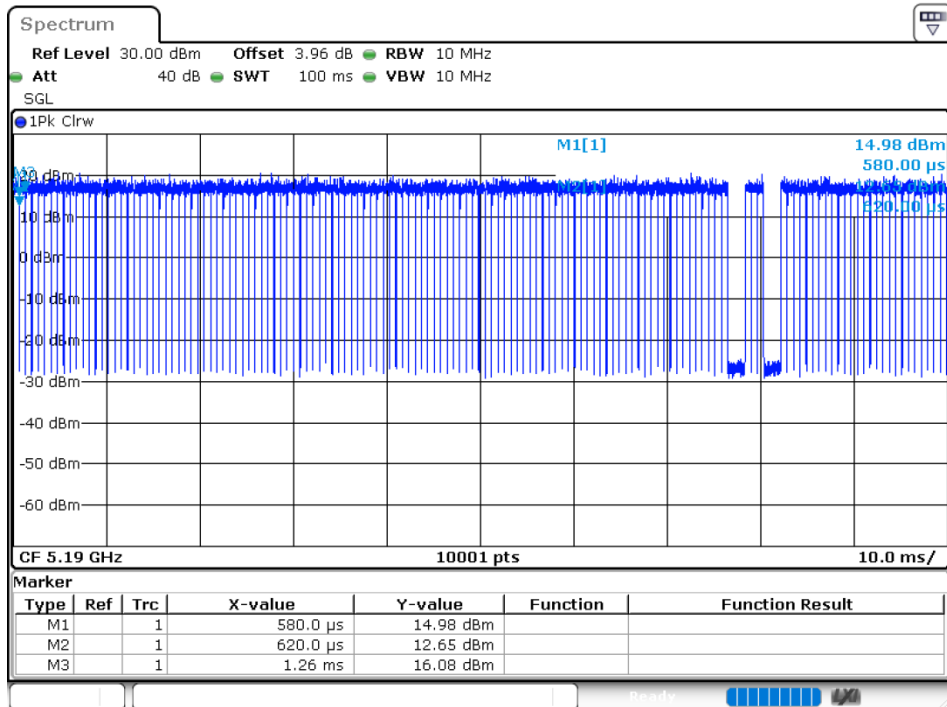
## Duty Cycle NVNT n20 5200MHz Ant1



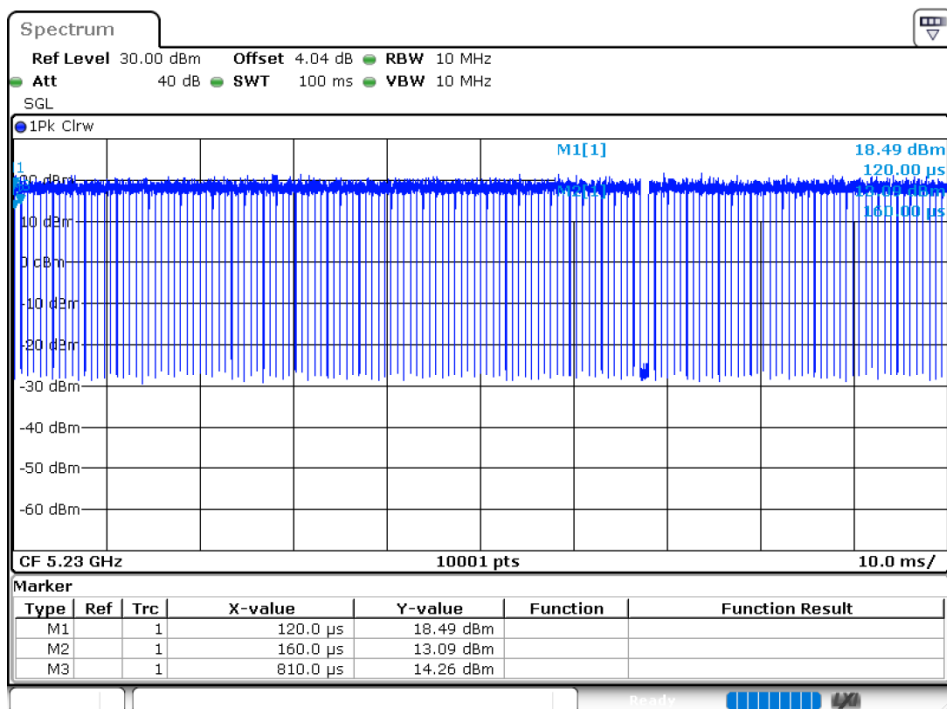
## Duty Cycle NVNT n20 5240MHz Ant1



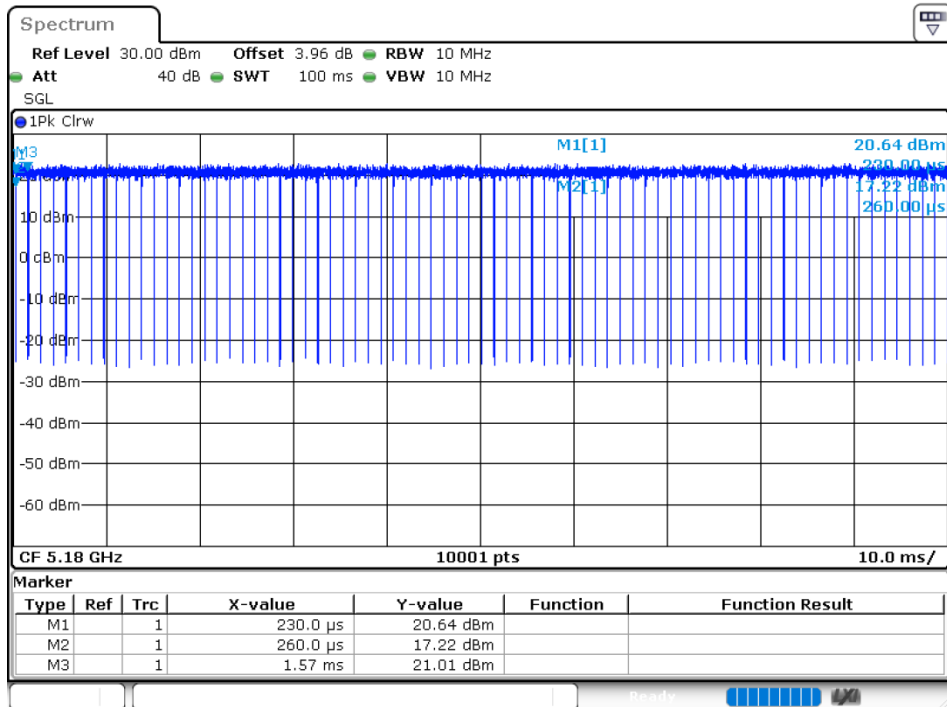
## Duty Cycle NVNT n40 5190MHz Ant1



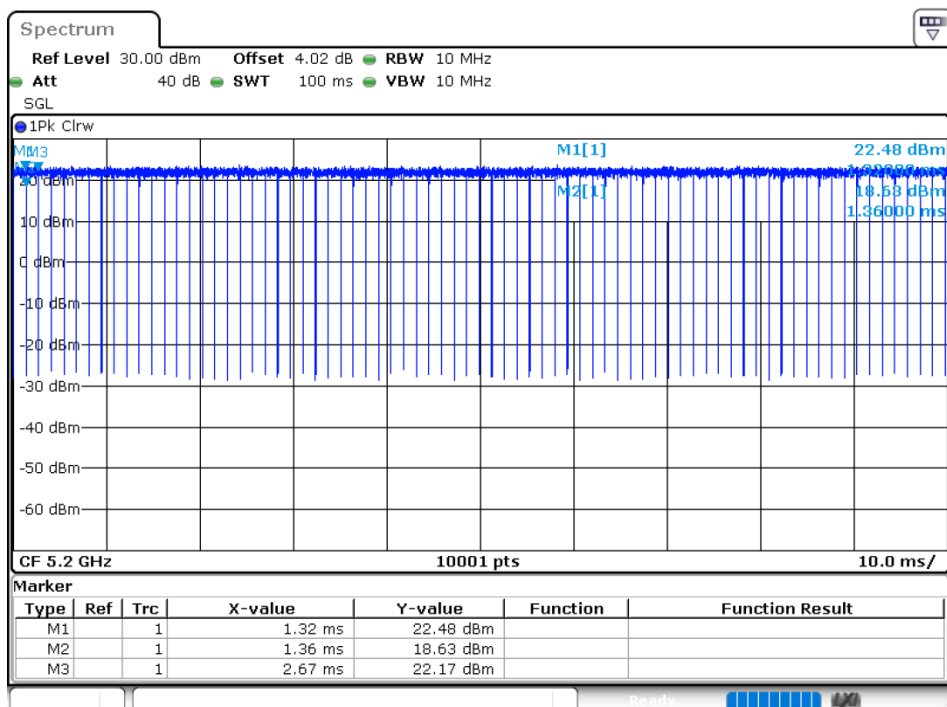
## Duty Cycle NVNT n40 5230MHz Ant1



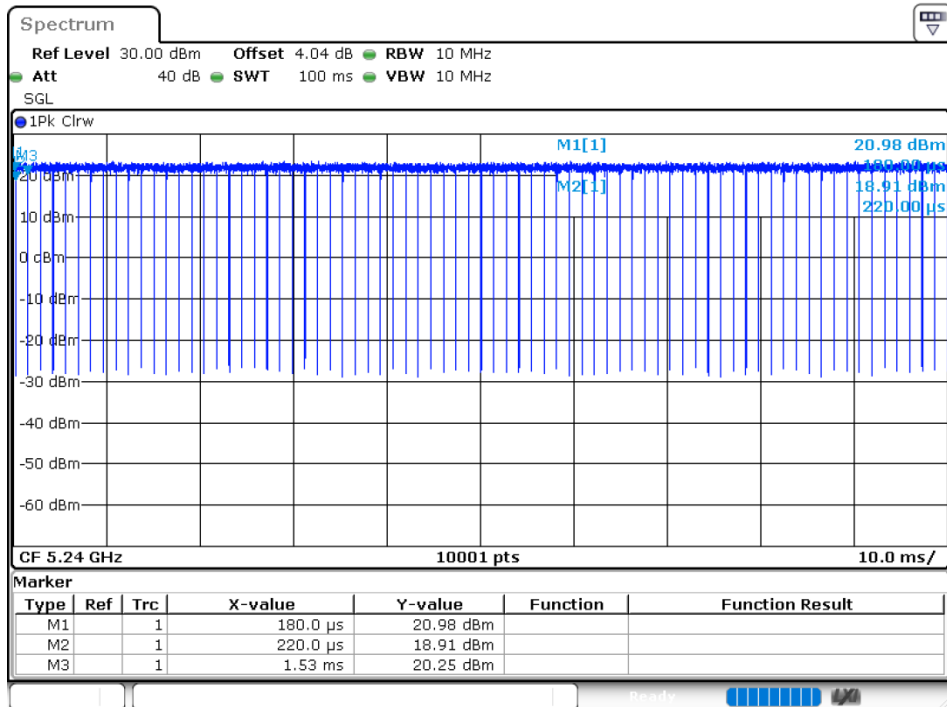
## Duty Cycle NVNT ac20 5180MHz Ant1



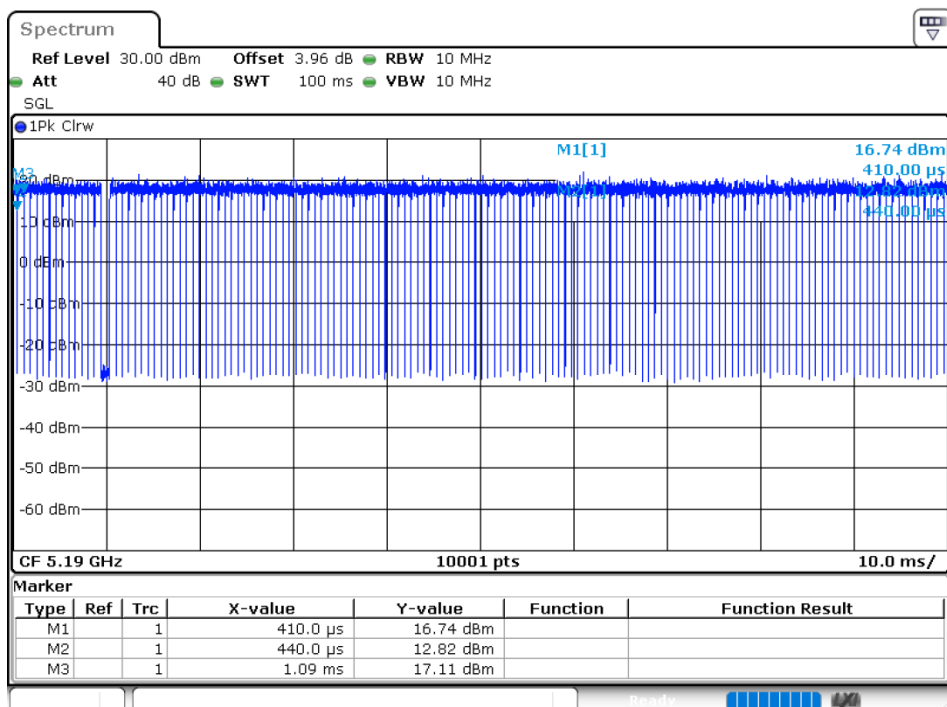
## Duty Cycle NVNT ac20 5200MHz Ant1



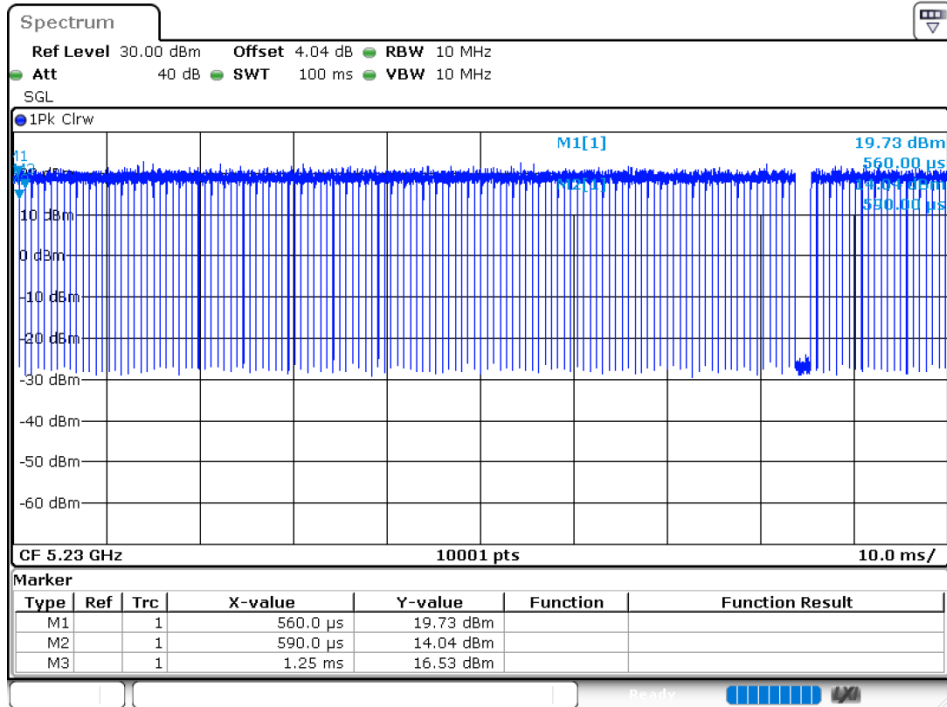
## Duty Cycle NVNT ac20 5240MHz Ant1



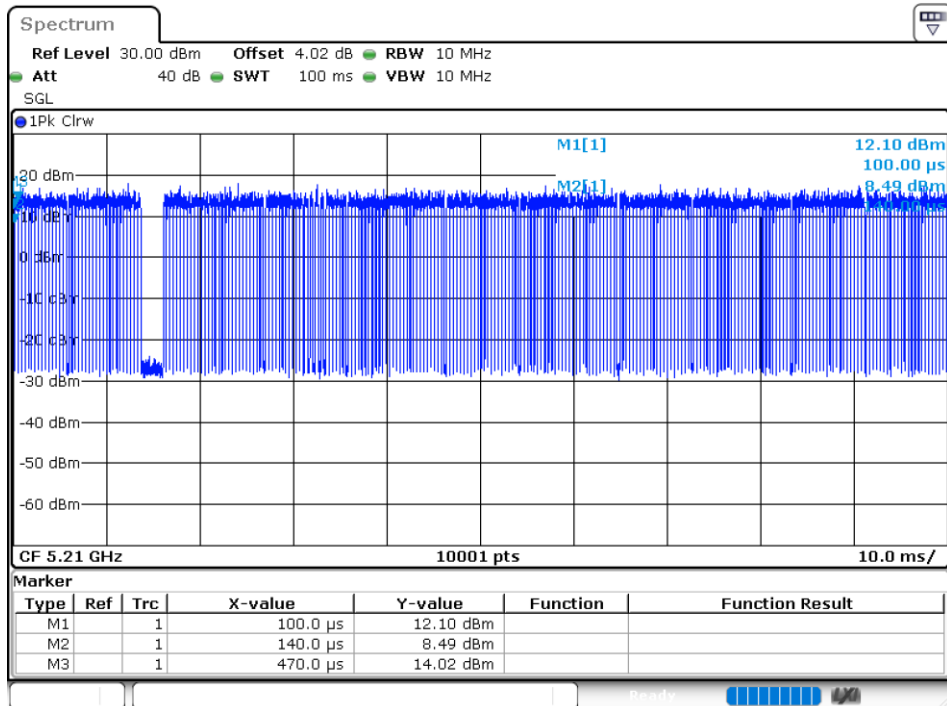
## Duty Cycle NVNT ac40 5190MHz Ant1



### Duty Cycle NVNT ac40 5230MHz Ant1



### Duty Cycle NVNT ac80 5210MHz Ant1



## Maximum Conducted Output Power

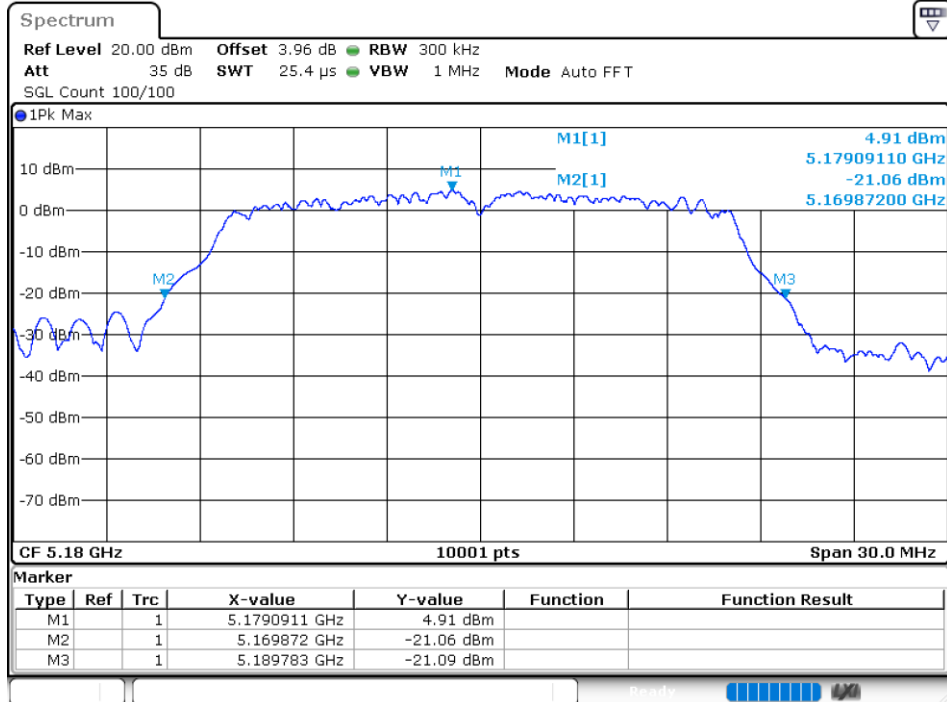
| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-------------|---------|
| NVNT      | a    | 5180            | Ant1    | 16.52                 | 24          | Pass    |
| NVNT      | a    | 5200            | Ant1    | 16.48                 | 24          | Pass    |
| NVNT      | a    | 5240            | Ant1    | 16.63                 | 24          | Pass    |
| NVNT      | n20  | 5180            | Ant1    | 16.35                 | 24          | Pass    |
| NVNT      | n20  | 5200            | Ant1    | 16.24                 | 24          | Pass    |
| NVNT      | n20  | 5240            | Ant1    | 16.31                 | 24          | Pass    |
| NVNT      | n40  | 5190            | Ant1    | 14.43                 | 24          | Pass    |
| NVNT      | n40  | 5230            | Ant1    | 16.21                 | 24          | Pass    |
| NVNT      | ac20 | 5180            | Ant1    | 16.32                 | 24          | Pass    |
| NVNT      | ac20 | 5200            | Ant1    | 16.17                 | 24          | Pass    |
| NVNT      | ac20 | 5240            | Ant1    | 16.22                 | 24          | Pass    |
| NVNT      | ac40 | 5190            | Ant1    | 14.23                 | 24          | Pass    |
| NVNT      | ac40 | 5230            | Ant1    | 16.19                 | 24          | Pass    |
| NVNT      | ac80 | 5210            | Ant1    | 13.54                 | 24          | Pass    |

## -26dB Bandwidth

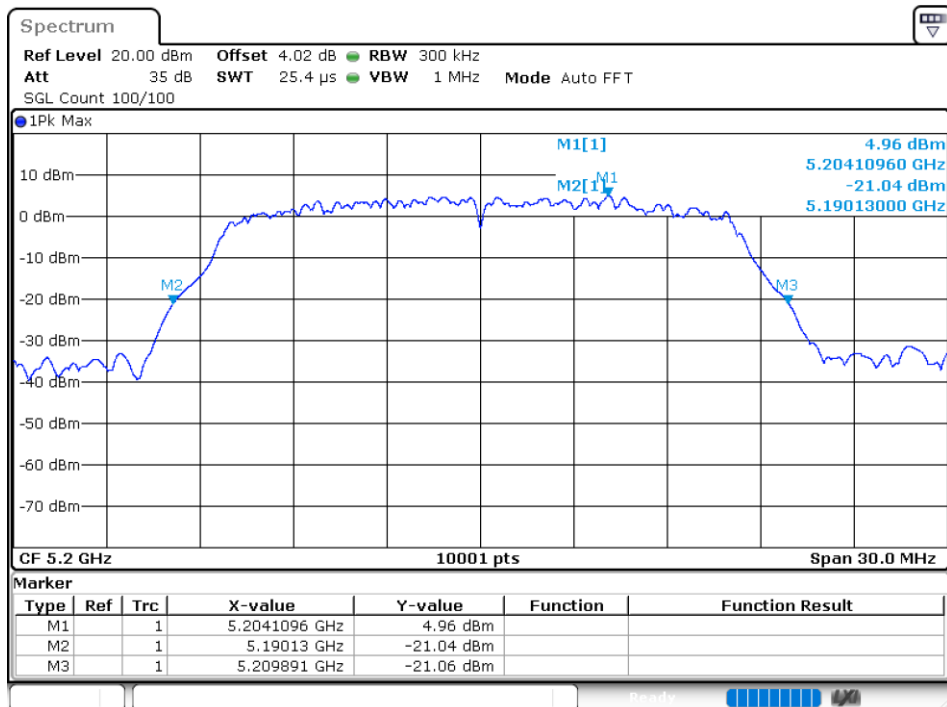
| Condition | Mode | Frequency (MHz) | Antenna | -26 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|------------------------|---------|
| NVNT      | a    | 5180            | Ant1    | 19.911                 | Pass    |
| NVNT      | a    | 5200            | Ant1    | 19.761                 | Pass    |
| NVNT      | a    | 5240            | Ant1    | 19.797                 | Pass    |
| NVNT      | n20  | 5180            | Ant1    | 23.463                 | Pass    |
| NVNT      | n20  | 5200            | Ant1    | 21.378                 | Pass    |
| NVNT      | n20  | 5240            | Ant1    | 20.313                 | Pass    |
| NVNT      | n40  | 5190            | Ant1    | 40.794                 | Pass    |
| NVNT      | n40  | 5230            | Ant1    | 43.596                 | Pass    |
| NVNT      | ac20 | 5180            | Ant1    | 20.364                 | Pass    |
| NVNT      | ac20 | 5200            | Ant1    | 20.418                 | Pass    |
| NVNT      | ac20 | 5240            | Ant1    | 20.31                  | Pass    |
| NVNT      | ac40 | 5190            | Ant1    | 40.692                 | Pass    |
| NVNT      | ac40 | 5230            | Ant1    | 43.926                 | Pass    |
| NVNT      | ac80 | 5210            | Ant1    | 81.252                 | Pass    |

## Test Graphs

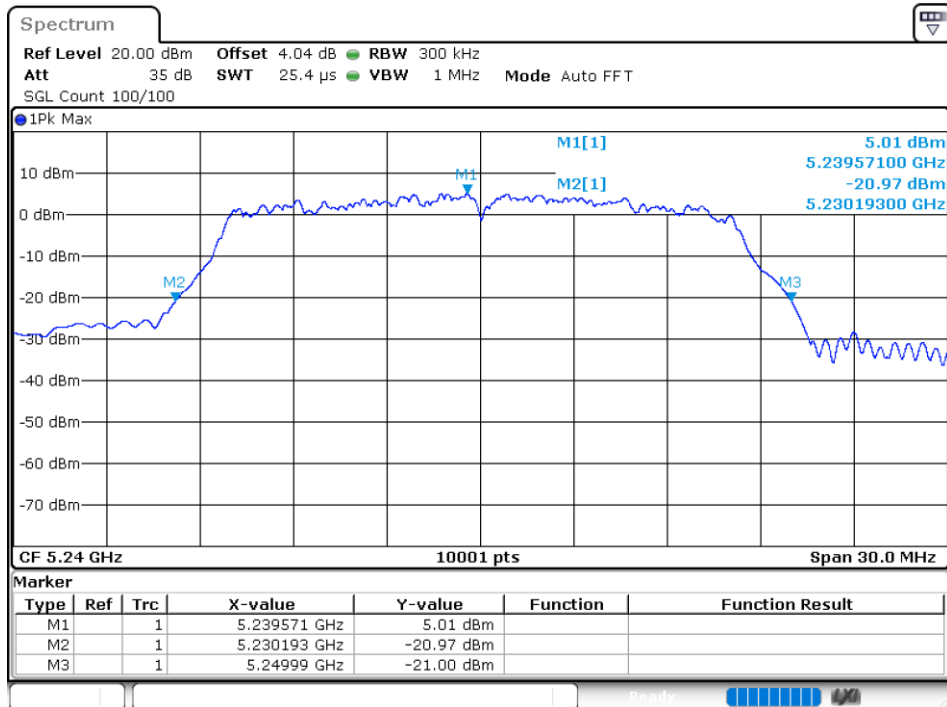
### -26dB Bandwidth NVNT a 5180MHz Ant1



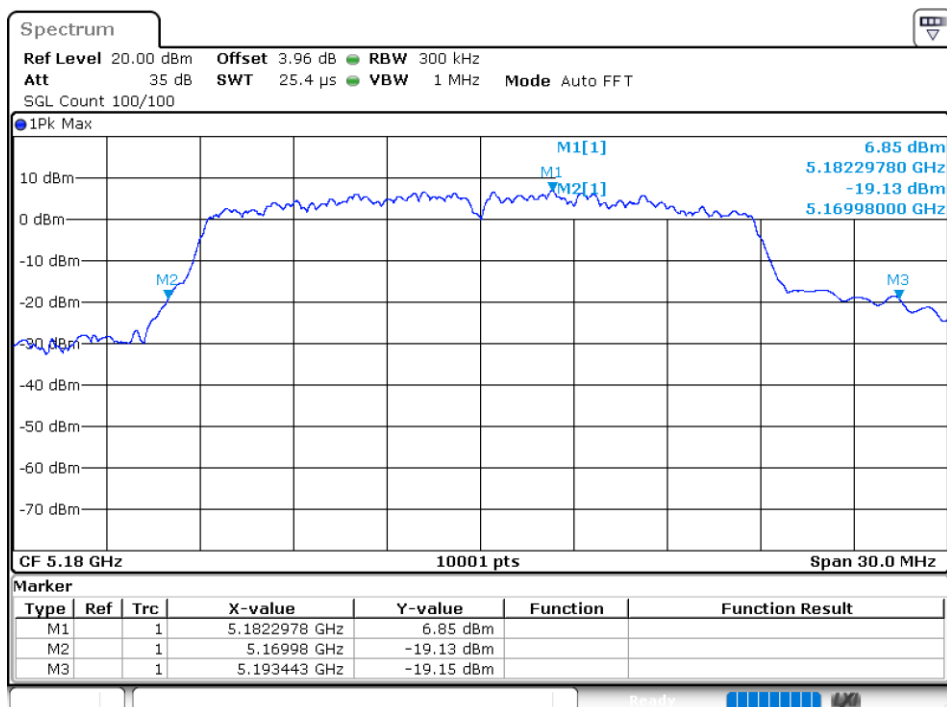
### -26dB Bandwidth NVNT a 5200MHz Ant1



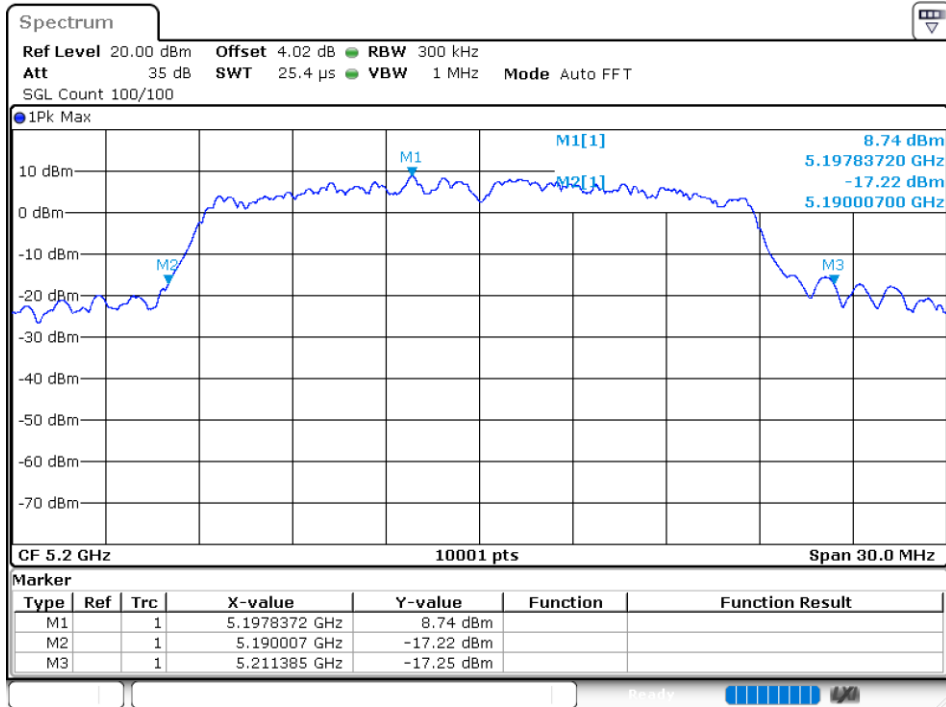
### -26dB Bandwidth NVNT a 5240MHz Ant1



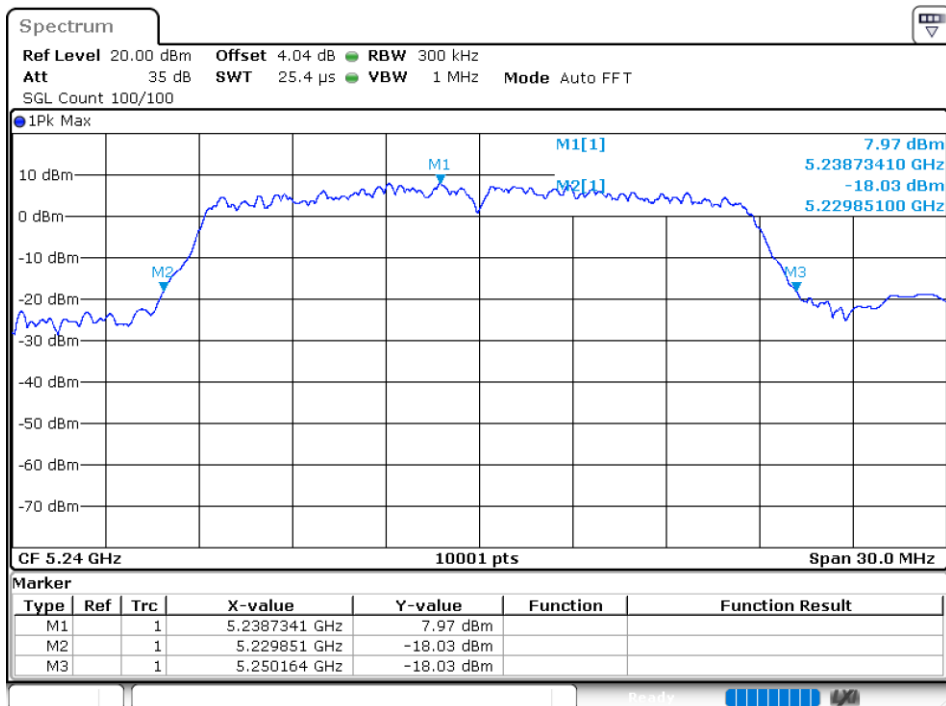
### -26dB Bandwidth NVNT n20 5180MHz Ant1



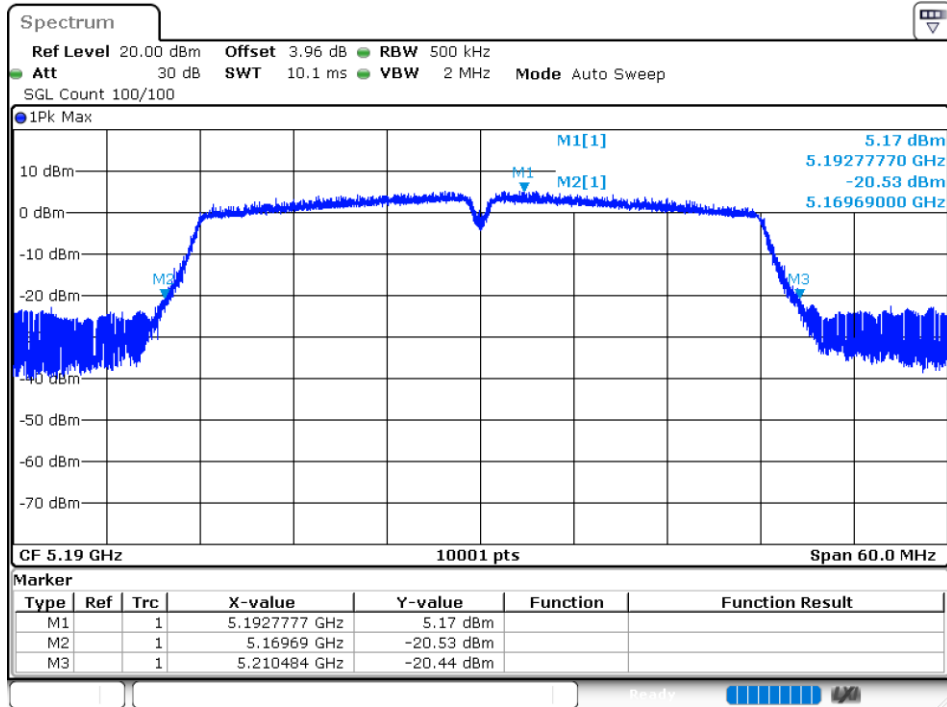
-26dB Bandwidth NVNT n20 5200MHz Ant1



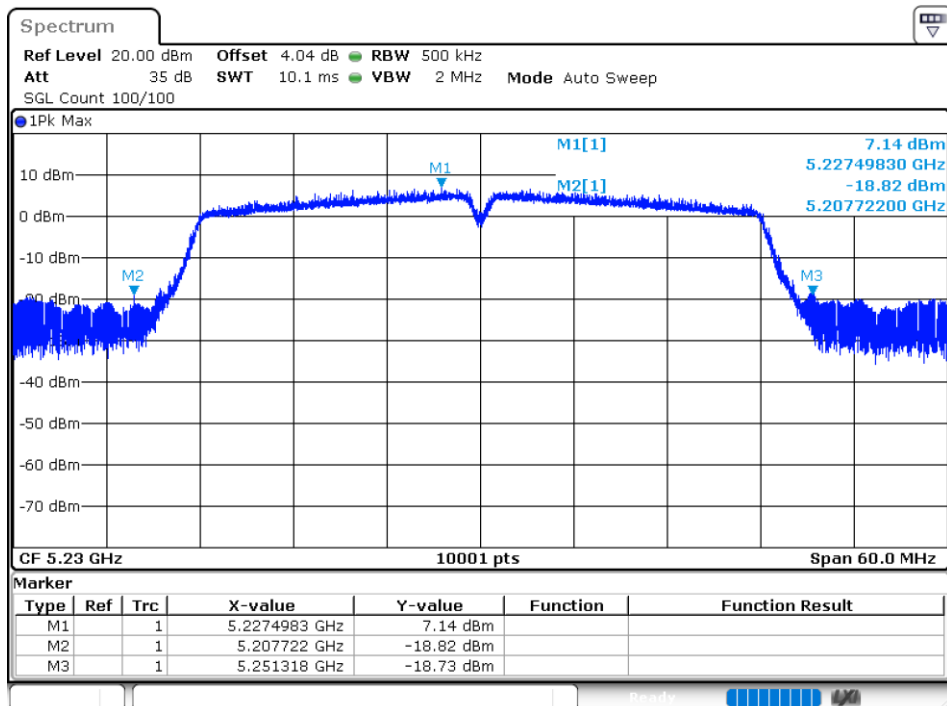
-26dB Bandwidth NVNT n20 5240MHz Ant1



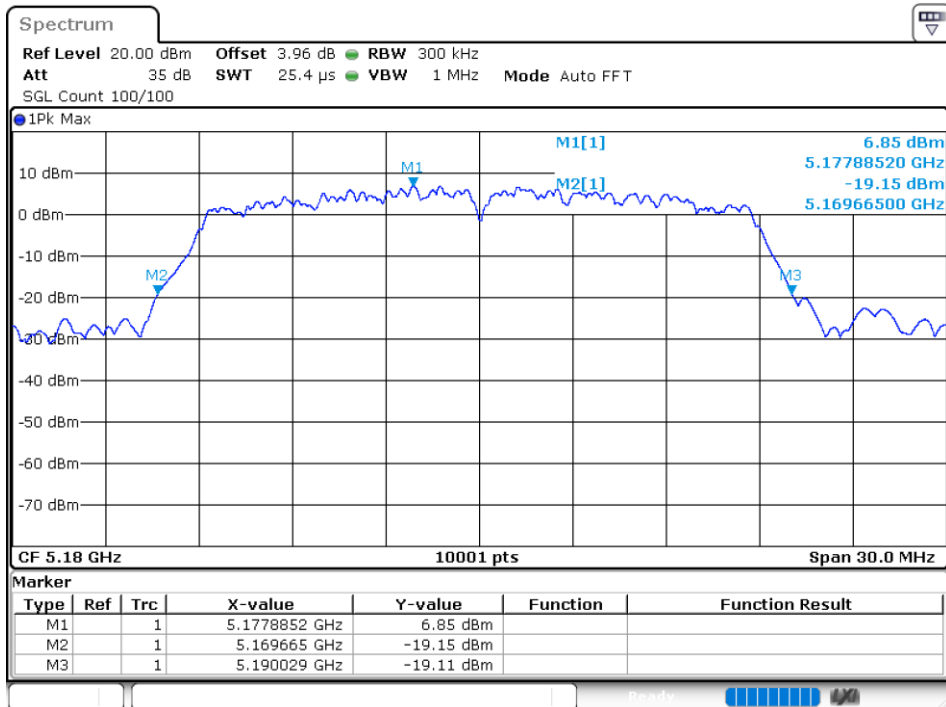
-26dB Bandwidth NVNT n40 5190MHz Ant1



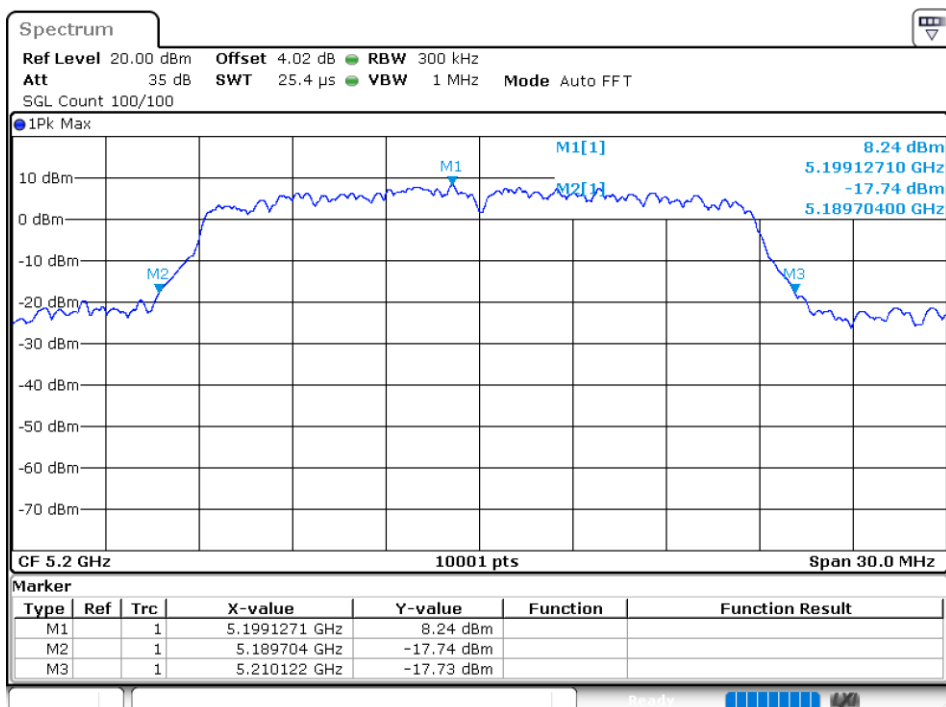
-26dB Bandwidth NVNT n40 5230MHz Ant1



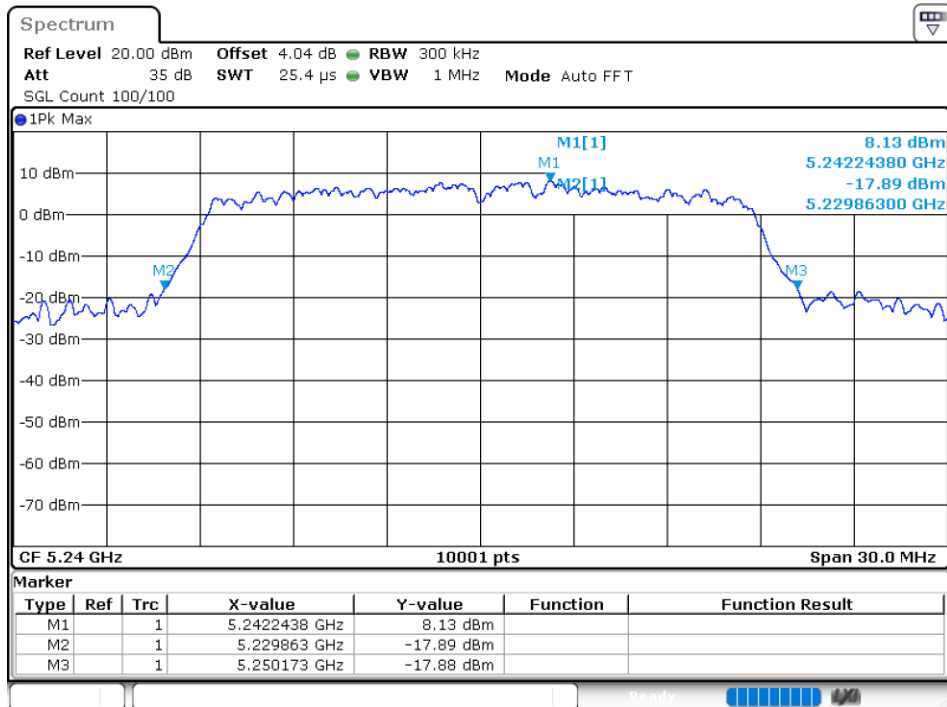
### -26dB Bandwidth NVNT ac20 5180MHz Ant1



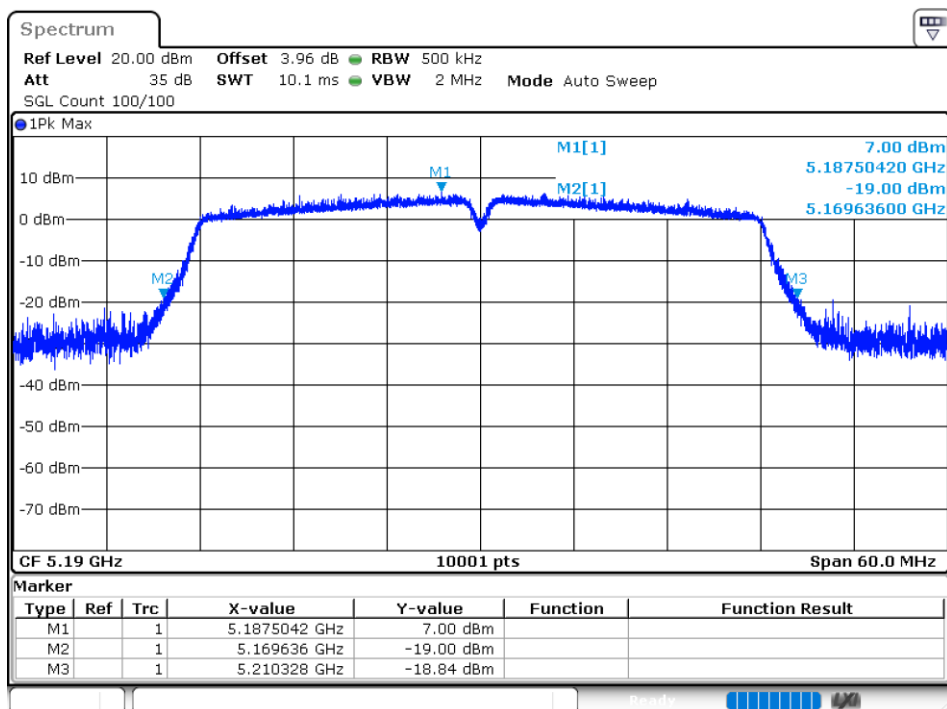
### -26dB Bandwidth NVNT ac20 5200MHz Ant1



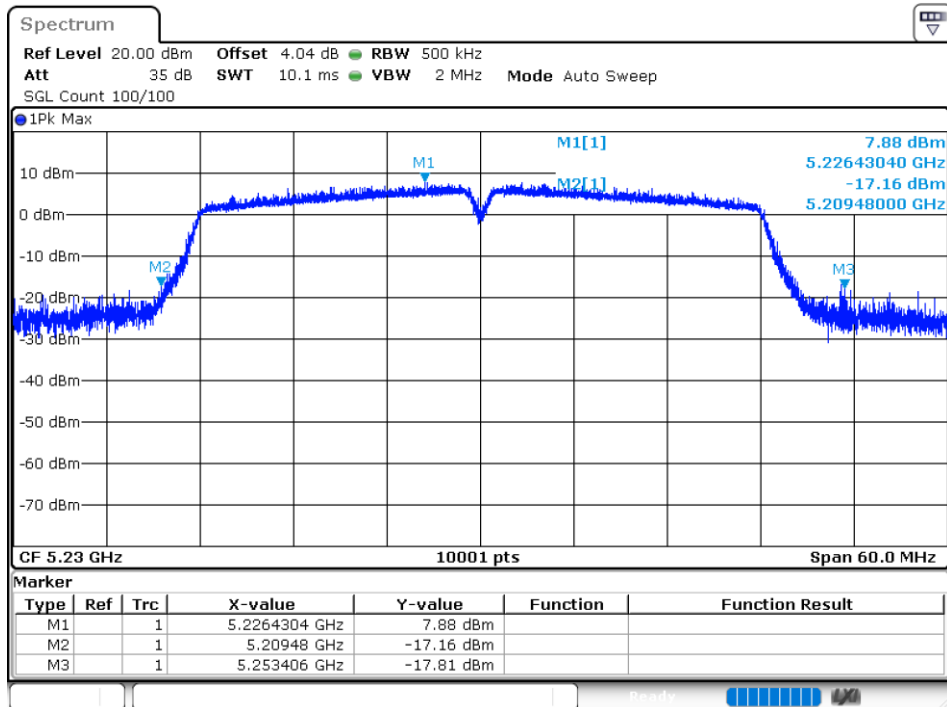
### -26dB Bandwidth NVNT ac20 5240MHz Ant1



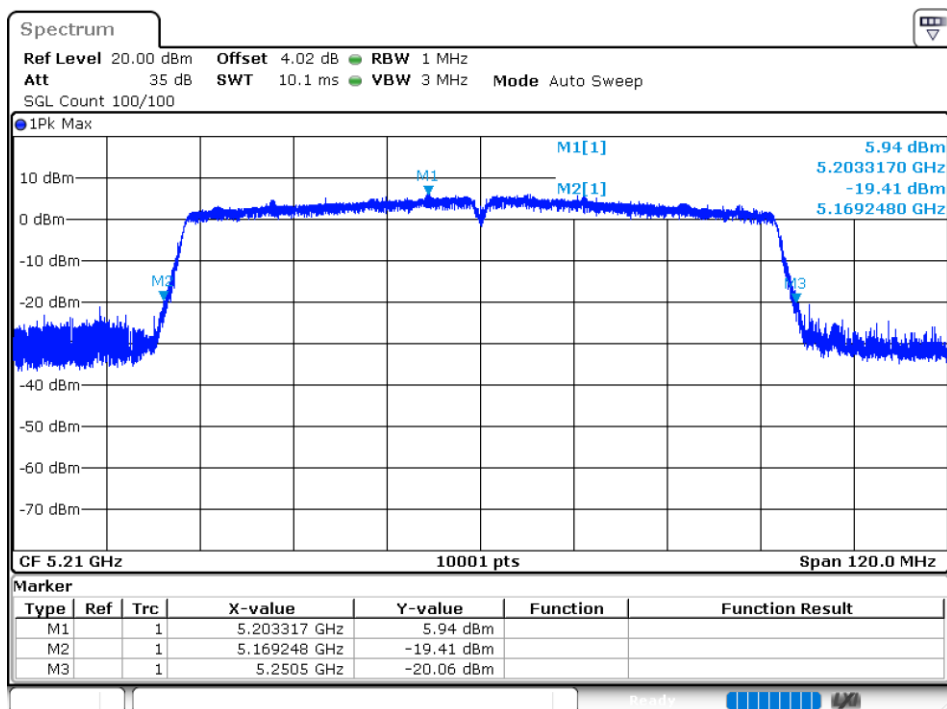
### -26dB Bandwidth NVNT ac40 5190MHz Ant1



## -26dB Bandwidth NVNT ac40 5230MHz Ant1



## -26dB Bandwidth NVNT ac80 5210MHz Ant1

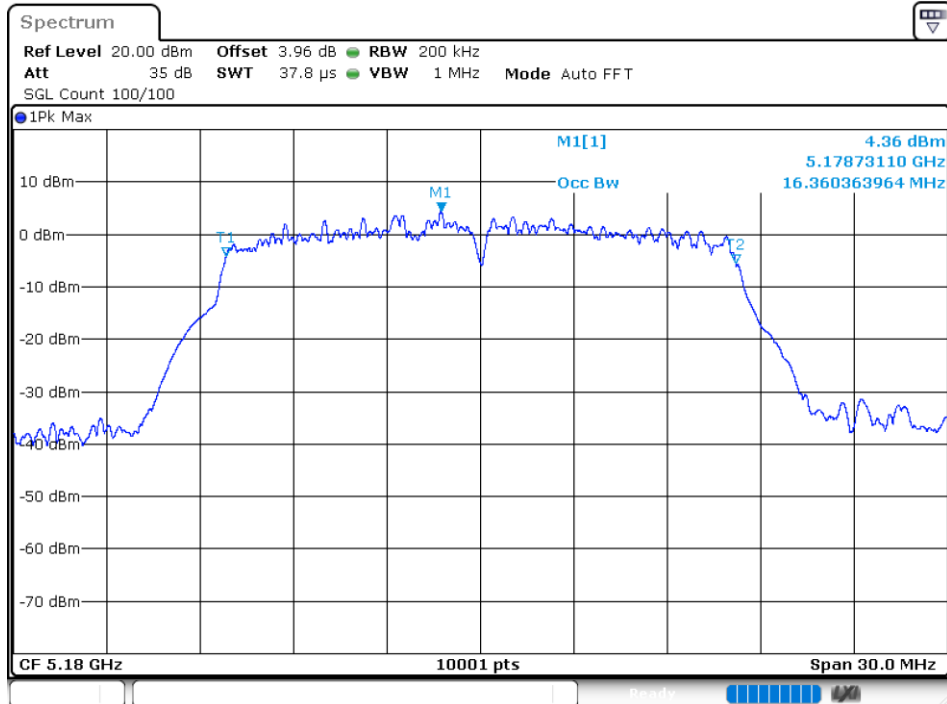


## Occupied Channel Bandwidth

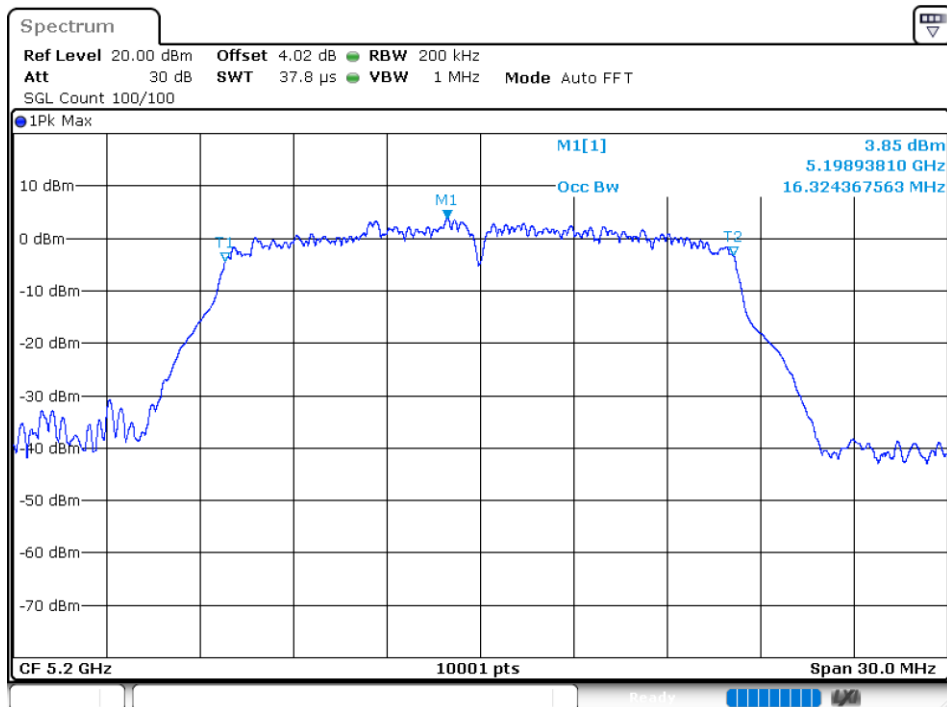
| Condition | Mode | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|-----------|------|-----------------|---------|---------------|
| NVNT      | a    | 5180            | Ant1    | 16.36         |
| NVNT      | a    | 5200            | Ant1    | 16.324        |
| NVNT      | a    | 5240            | Ant1    | 16.669        |
| NVNT      | n20  | 5180            | Ant1    | 17.596        |
| NVNT      | n20  | 5200            | Ant1    | 17.686        |
| NVNT      | n20  | 5240            | Ant1    | 17.596        |
| NVNT      | n40  | 5190            | Ant1    | 36.068        |
| NVNT      | n40  | 5230            | Ant1    | 36.08         |
| NVNT      | ac20 | 5180            | Ant1    | 17.521        |
| NVNT      | ac20 | 5200            | Ant1    | 17.575        |
| NVNT      | ac20 | 5240            | Ant1    | 17.62         |
| NVNT      | ac40 | 5190            | Ant1    | 36.044        |
| NVNT      | ac40 | 5230            | Ant1    | 36.068        |
| NVNT      | ac80 | 5210            | Ant1    | 75.256        |

## Test Graphs

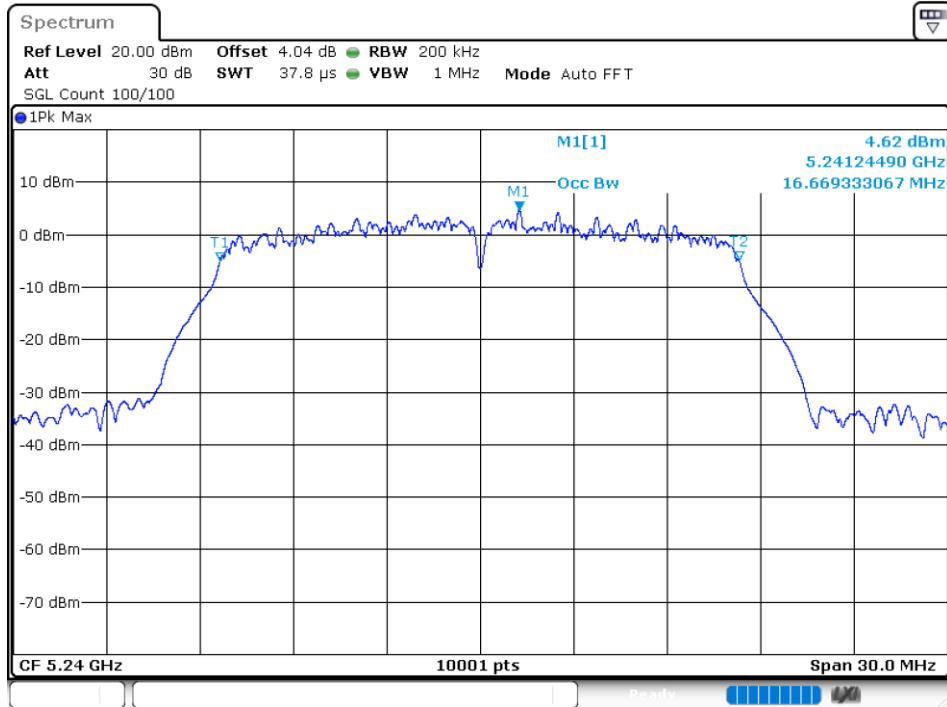
### OBW NVNT a 5180MHz Ant1



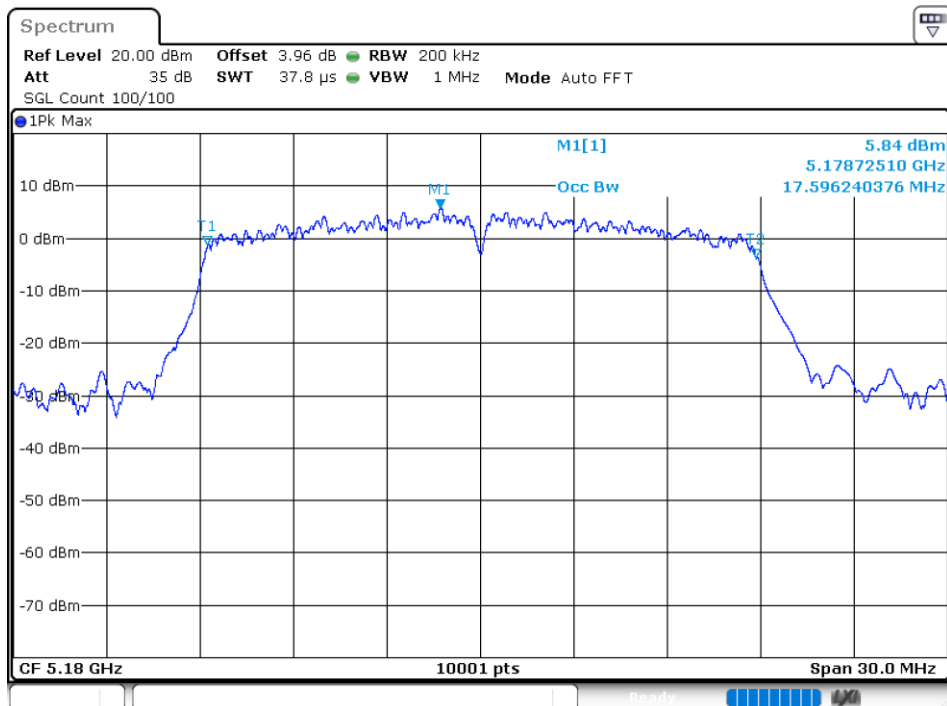
### OBW NVNT a 5200MHz Ant1



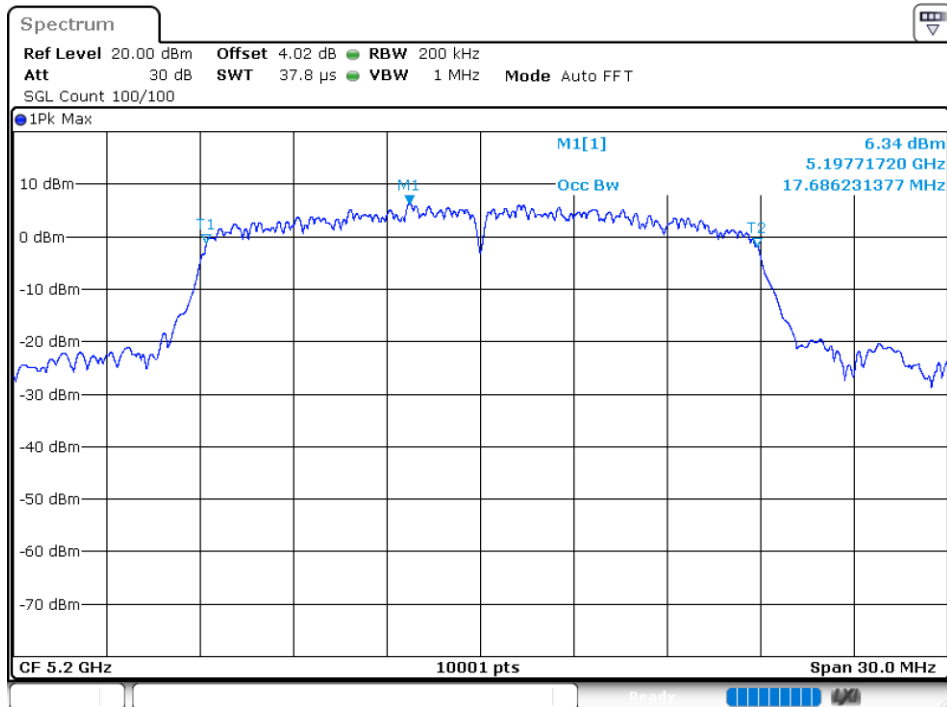
### OBW NVNT a 5240MHz Ant1



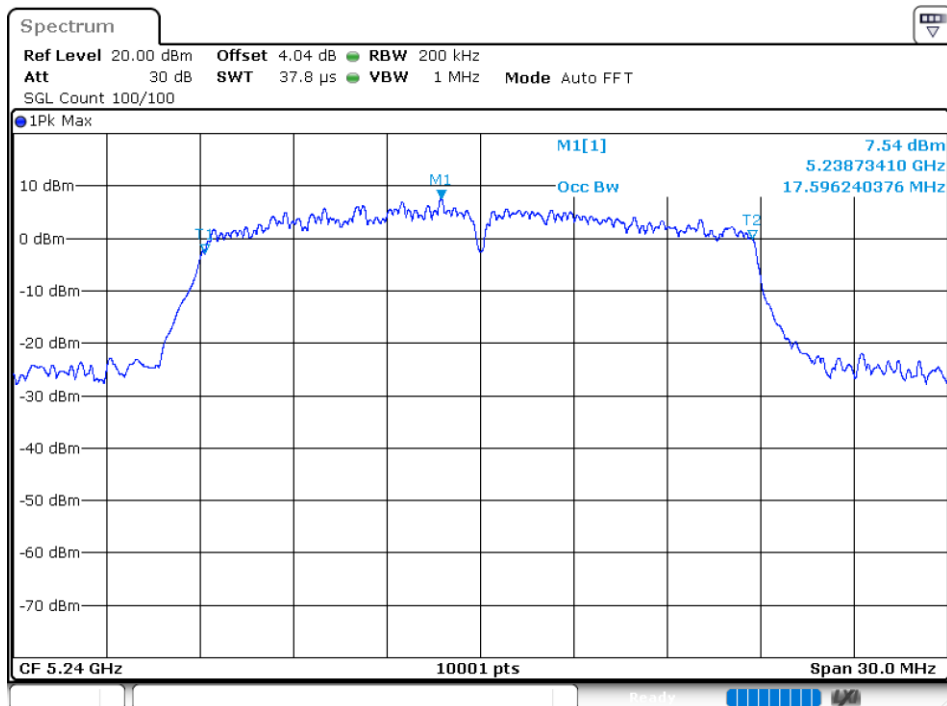
### OBW NVNT n20 5180MHz Ant1



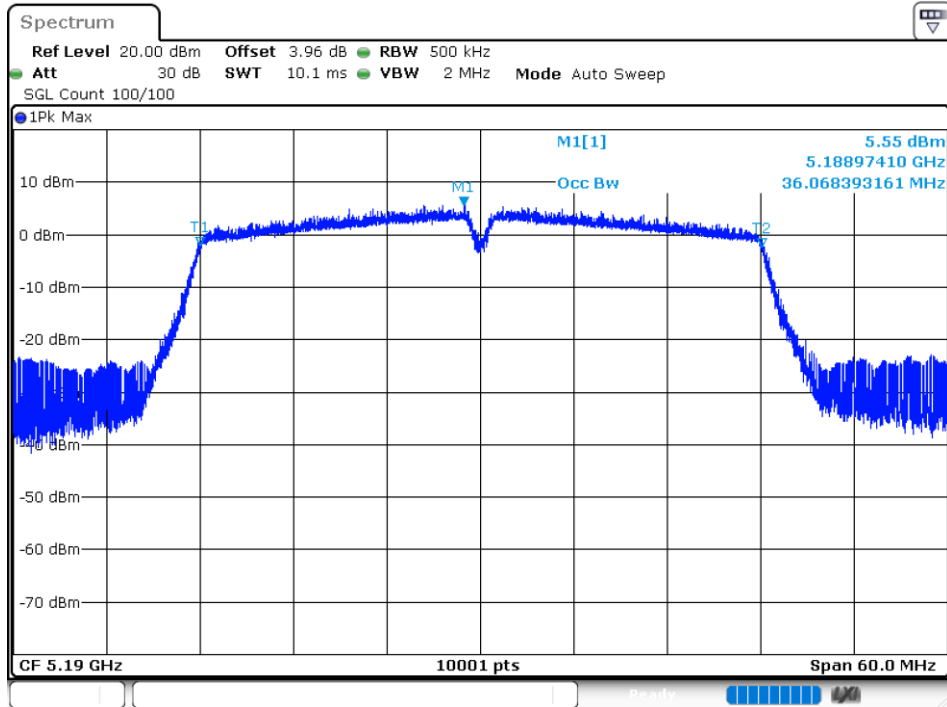
### OBW NVNT n20 5200MHz Ant1



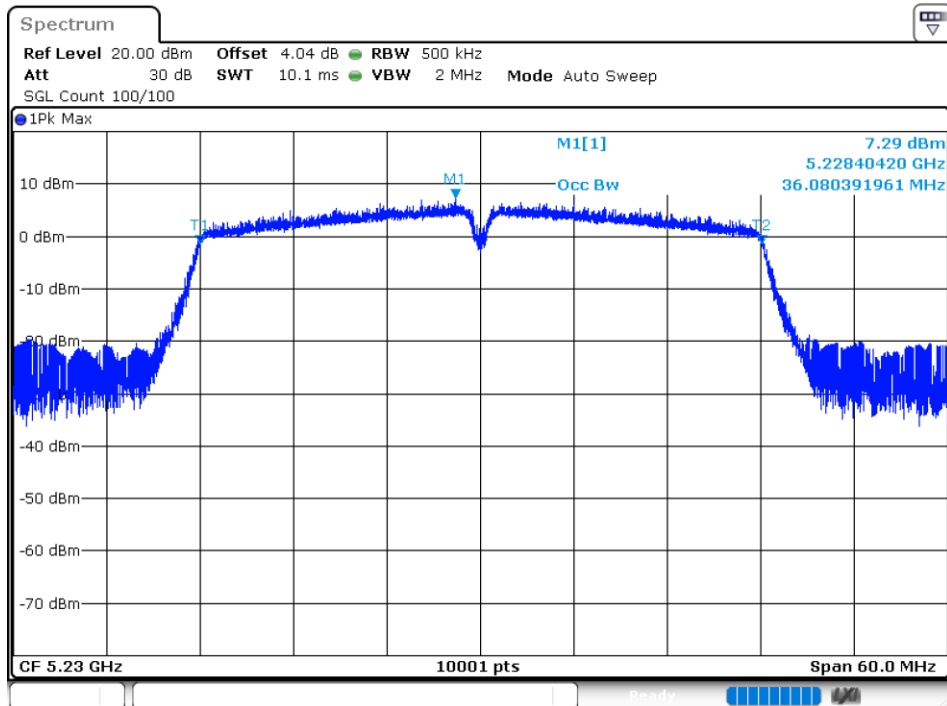
### OBW NVNT n20 5240MHz Ant1



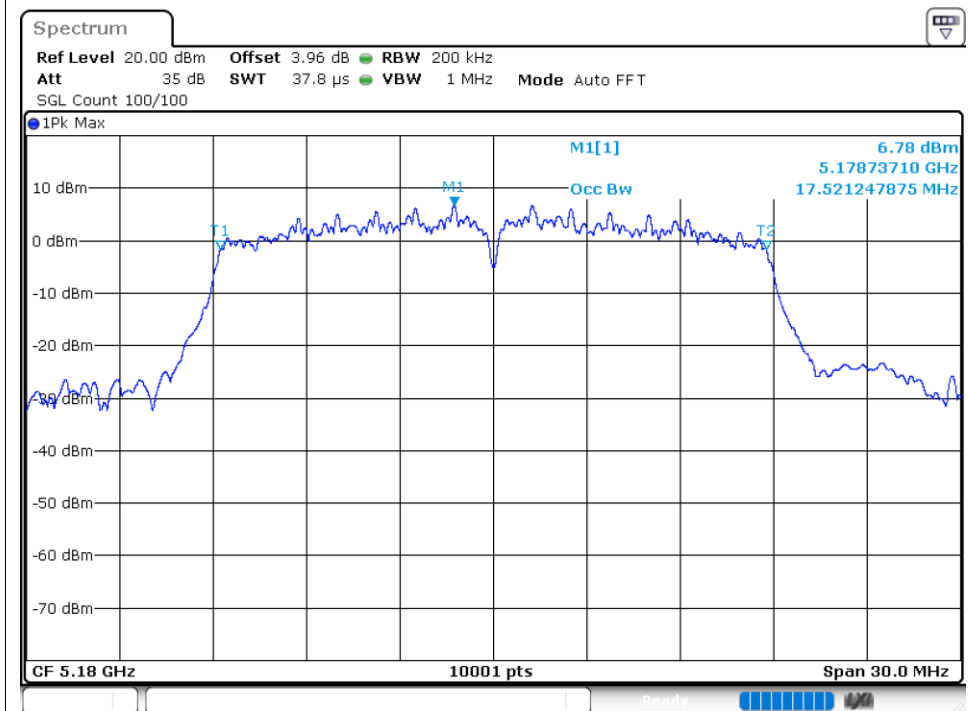
### OBW NVNT n40 5190MHz Ant1



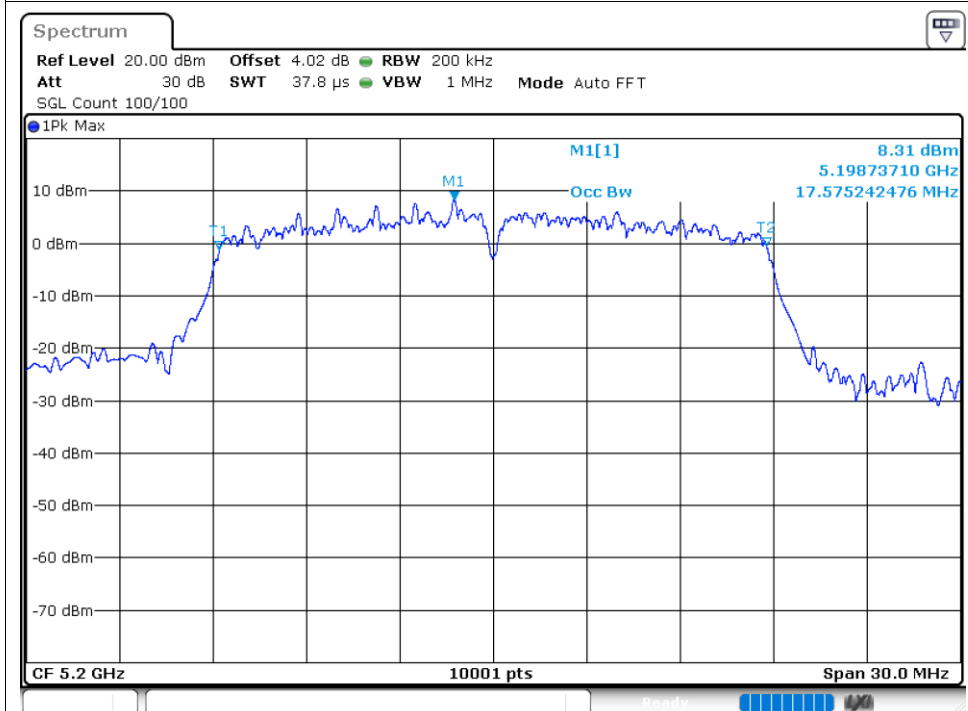
### OBW NVNT n40 5230MHz Ant1



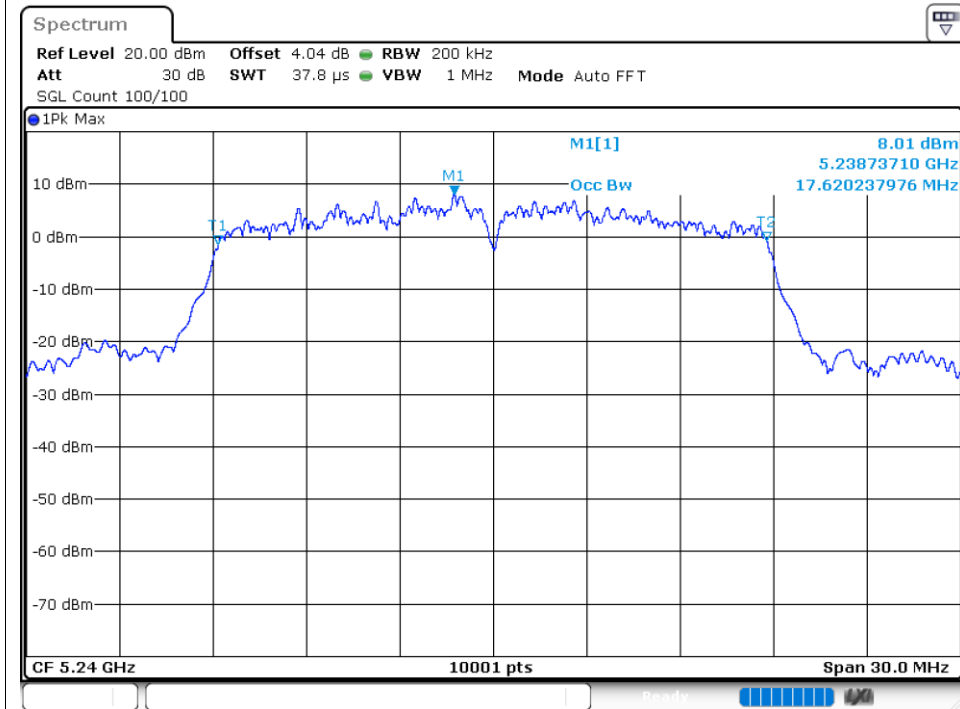
### OBW NVNT ac20 5180MHz Ant1



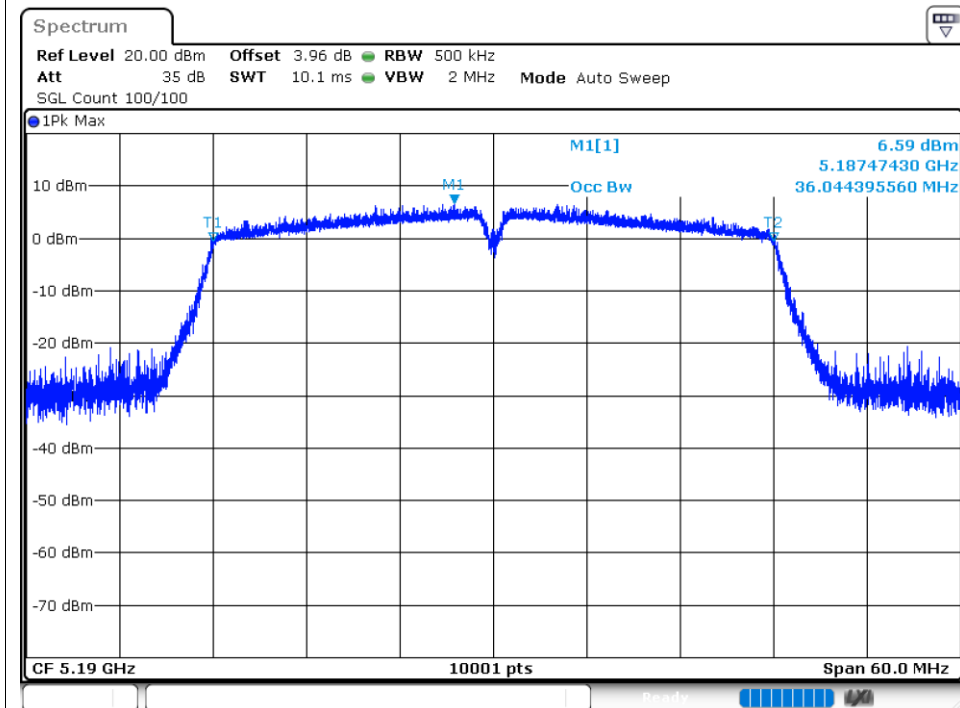
### OBW NVNT ac20 5200MHz Ant1



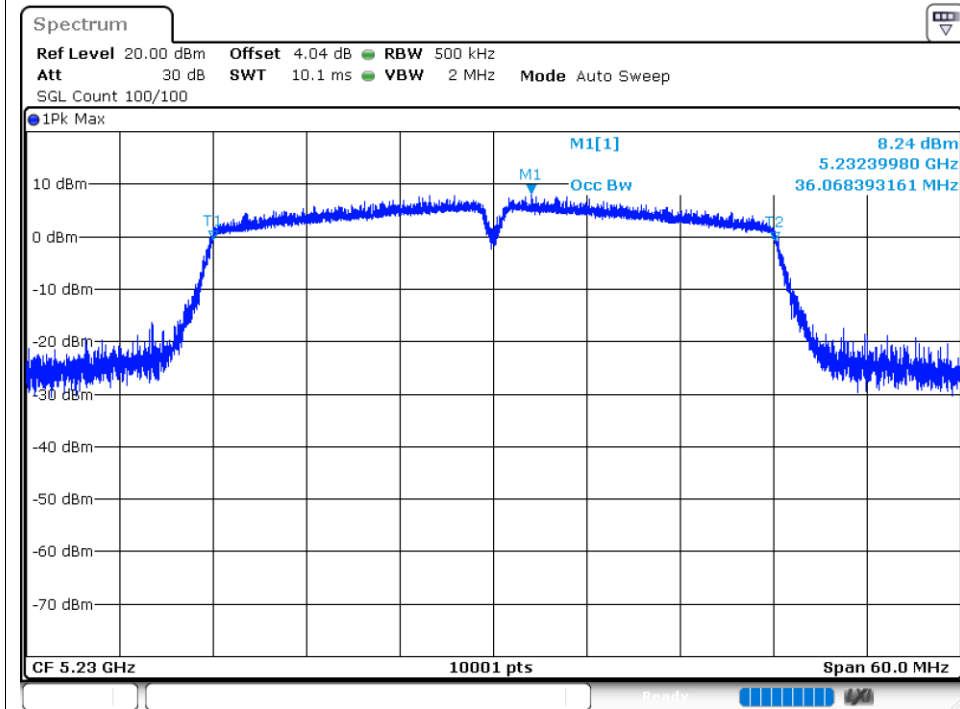
### OBW NVNT ac20 5240MHz Ant1



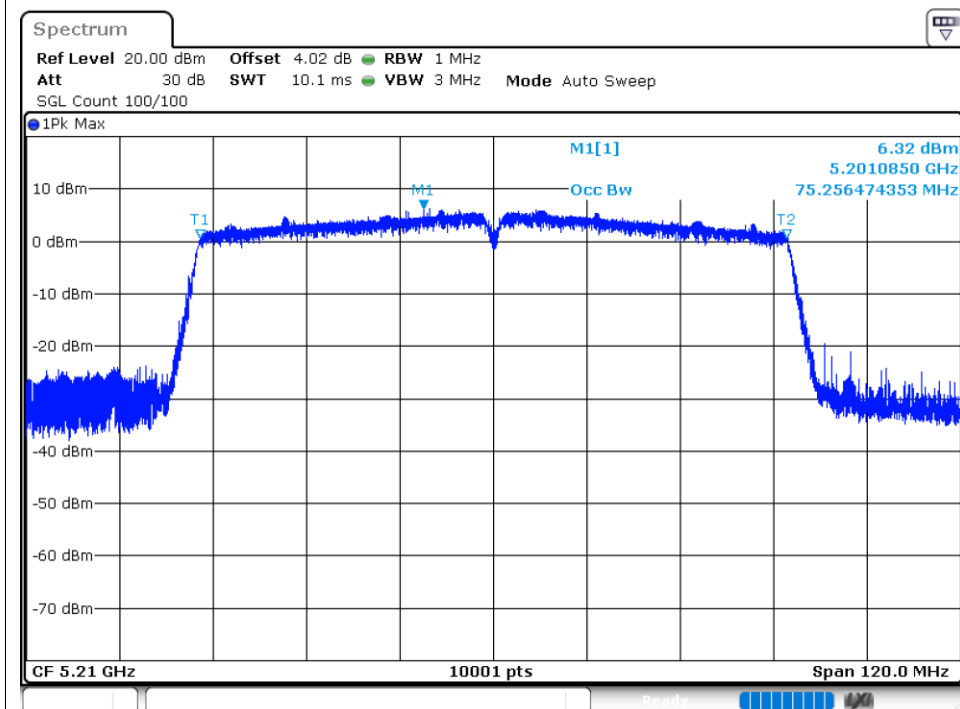
### OBW NVNT ac40 5190MHz Ant1



### OBW NVNT ac40 5230MHz Ant1



### OBW NVNT ac80 5210MHz Ant1

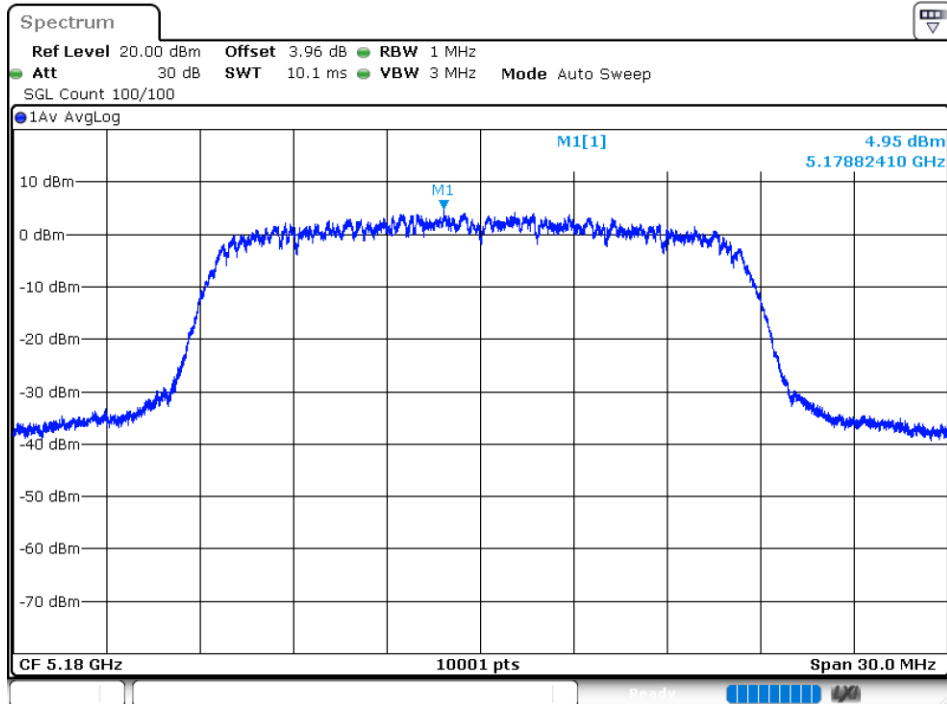


## Maximum Power Spectral Density Level

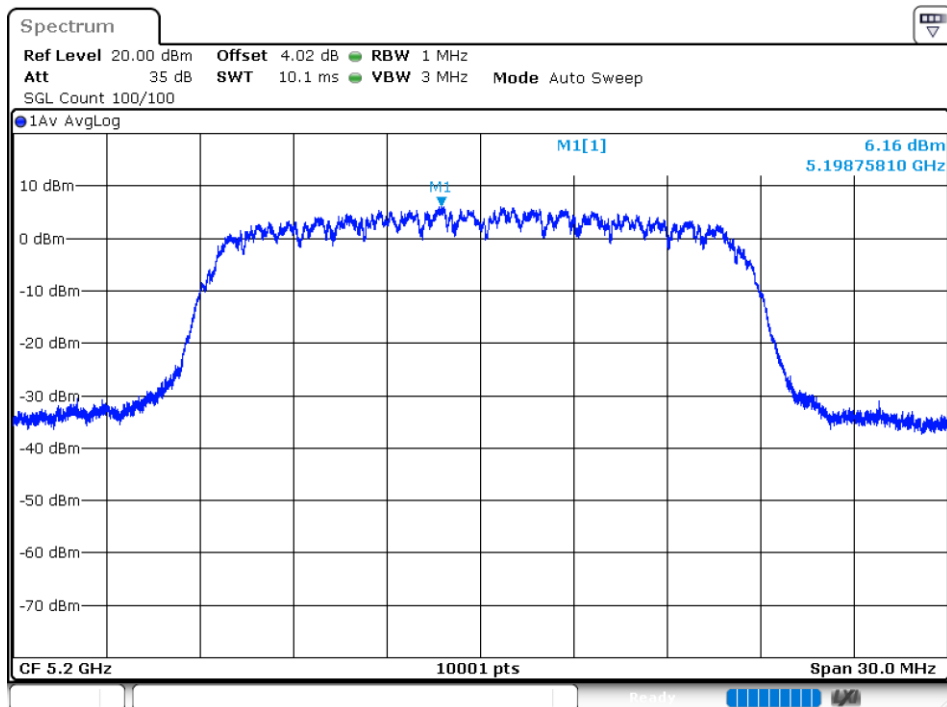
| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm) | Duty Factor (dB) | Total PSD (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|---------------------|------------------|-----------------|-------------|---------|
| NVNT      | a    | 5180            | Ant1    | 4.95                | 0.08             | 5.03            | 11          | Pass    |
| NVNT      | a    | 5200            | Ant1    | 6.16                | 0.08             | 6.24            | 11          | Pass    |
| NVNT      | a    | 5240            | Ant1    | 5.86                | 0.08             | 5.94            | 11          | Pass    |
| NVNT      | n20  | 5180            | Ant1    | 4.92                | 0.08             | 5.00            | 11          | Pass    |
| NVNT      | n20  | 5200            | Ant1    | 5.43                | 0.08             | 5.51            | 11          | Pass    |
| NVNT      | n20  | 5240            | Ant1    | 5.93                | 0.09             | 6.02            | 11          | Pass    |
| NVNT      | n40  | 5190            | Ant1    | -1.1                | 0.32             | -0.78           | 11          | Pass    |
| NVNT      | n40  | 5230            | Ant1    | 0.43                | 0.2              | 0.63            | 11          | Pass    |
| NVNT      | ac20 | 5180            | Ant1    | 4.92                | 0.08             | 5.00            | 11          | Pass    |
| NVNT      | ac20 | 5200            | Ant1    | 5.93                | 0.08             | 6.01            | 11          | Pass    |
| NVNT      | ac20 | 5240            | Ant1    | 5.43                | 0.09             | 5.52            | 11          | Pass    |
| NVNT      | ac40 | 5190            | Ant1    | -3.63               | 0.2              | -3.43           | 11          | Pass    |
| NVNT      | ac40 | 5230            | Ant1    | -0.47               | 0.23             | -0.24           | 11          | Pass    |
| NVNT      | ac80 | 5210            | Ant1    | -7.87               | 0.67             | -7.20           | 11          | Pass    |

## Test Graphs

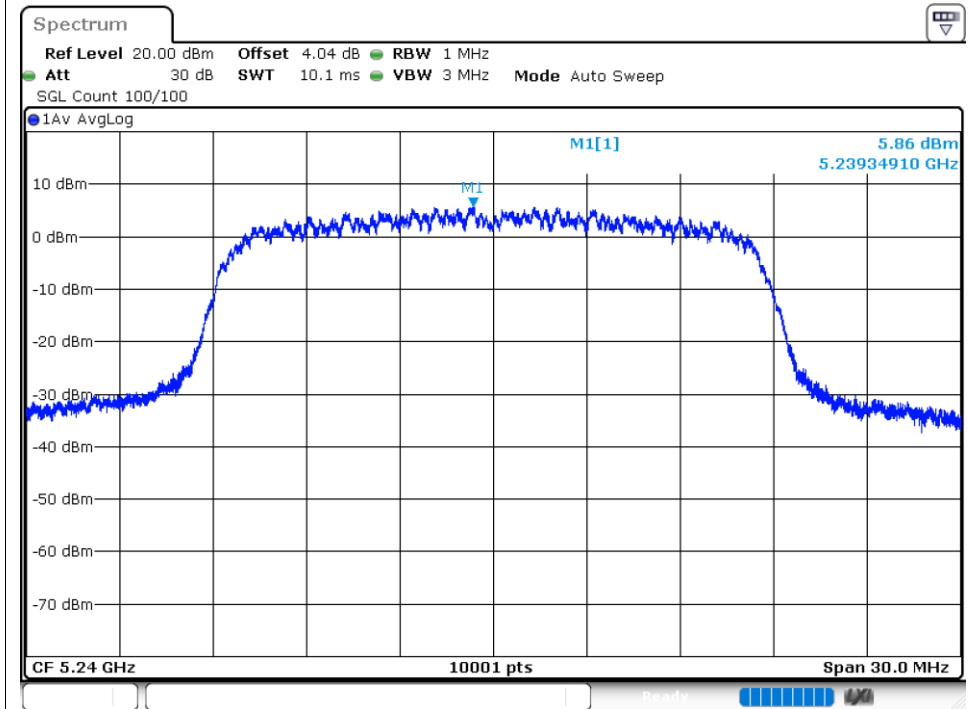
### PSD NVNT a 5180MHz Ant1



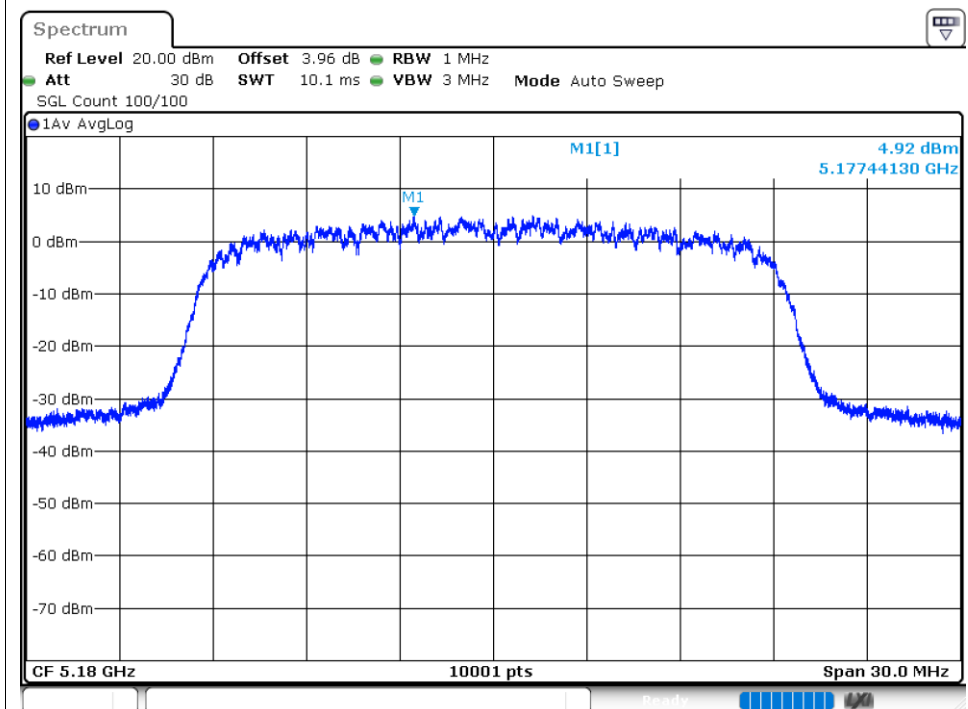
### PSD NVNT a 5200MHz Ant1



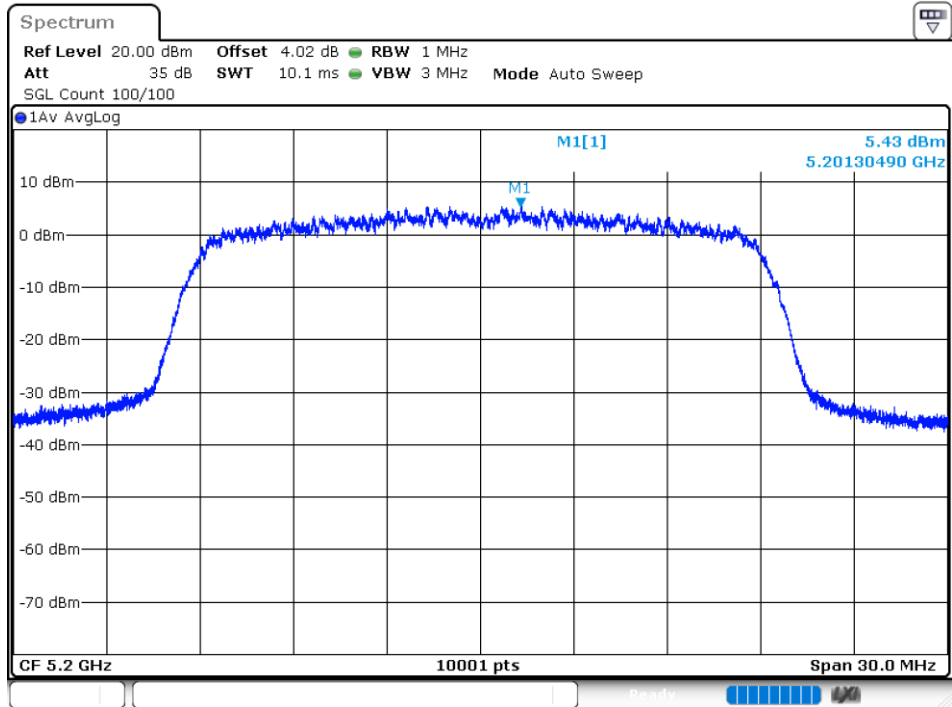
### PSD NVNT a 5240MHz Ant1



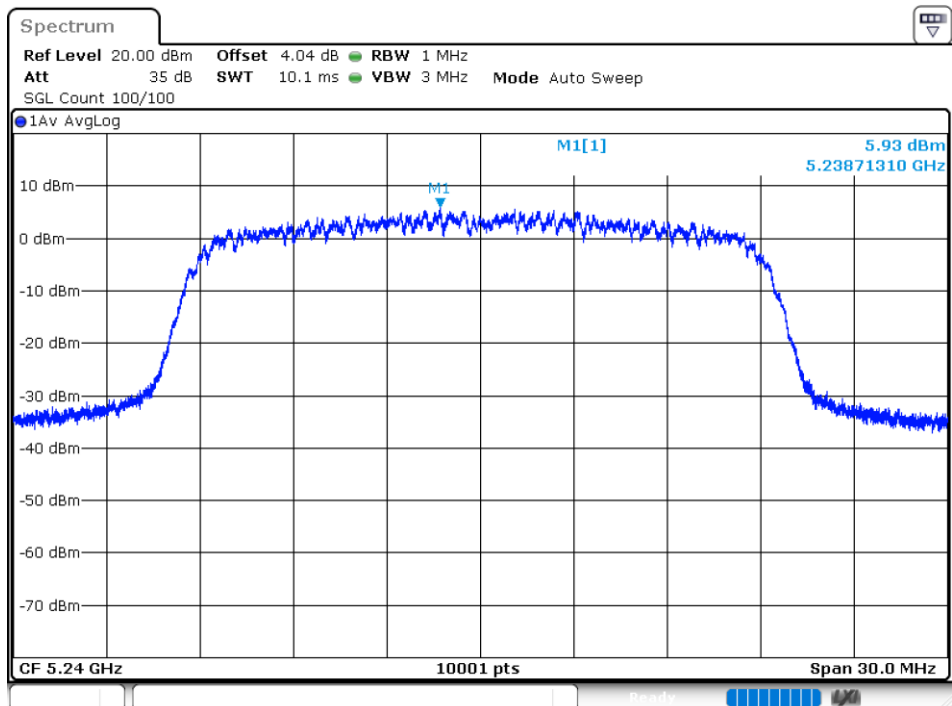
### PSD NVNT n20 5180MHz Ant1



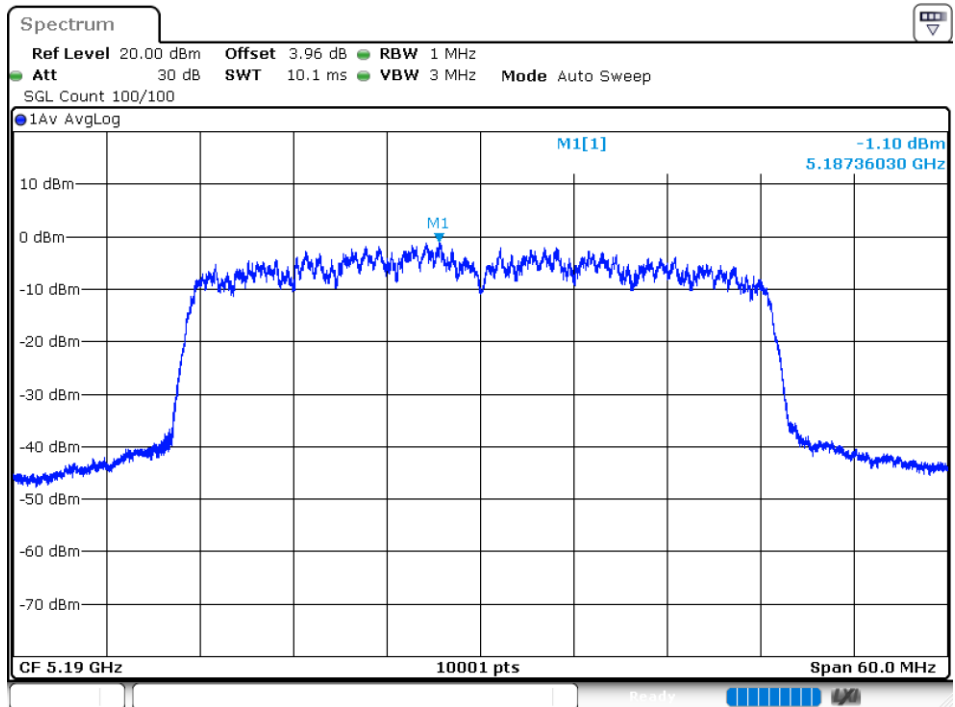
### PSD NVNT n20 5200MHz Ant1



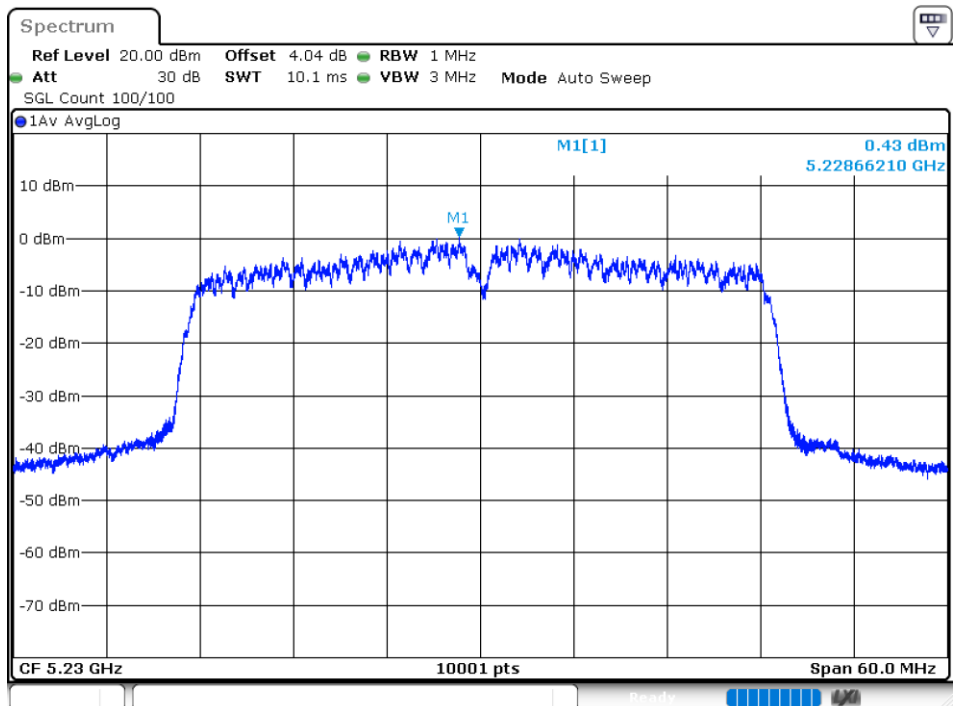
### PSD NVNT n20 5240MHz Ant1



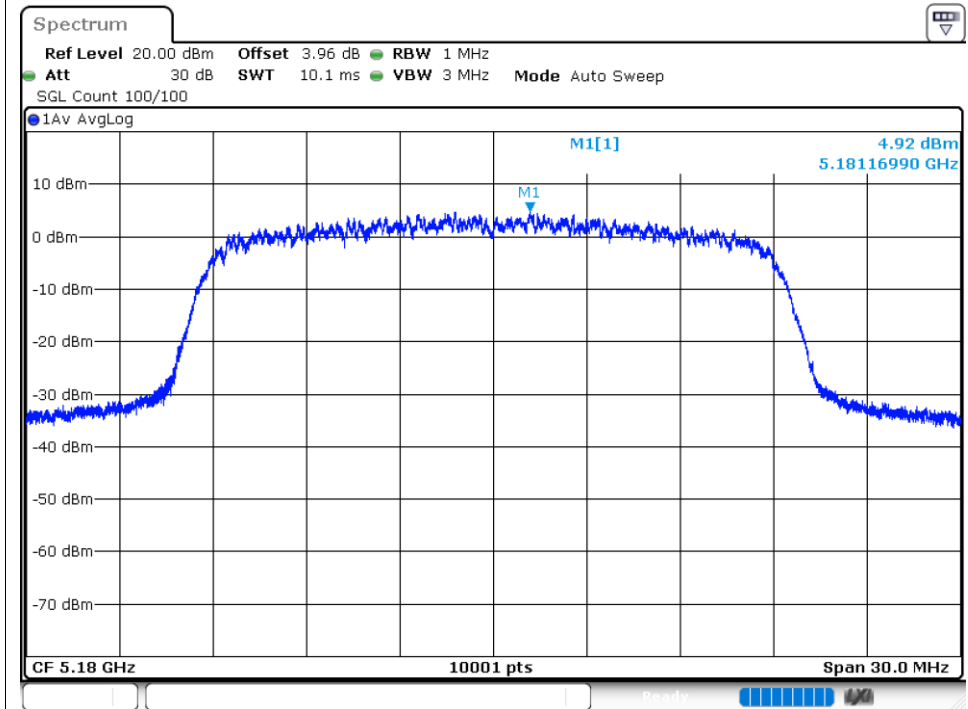
### PSD NVNT n40 5190MHz Ant1



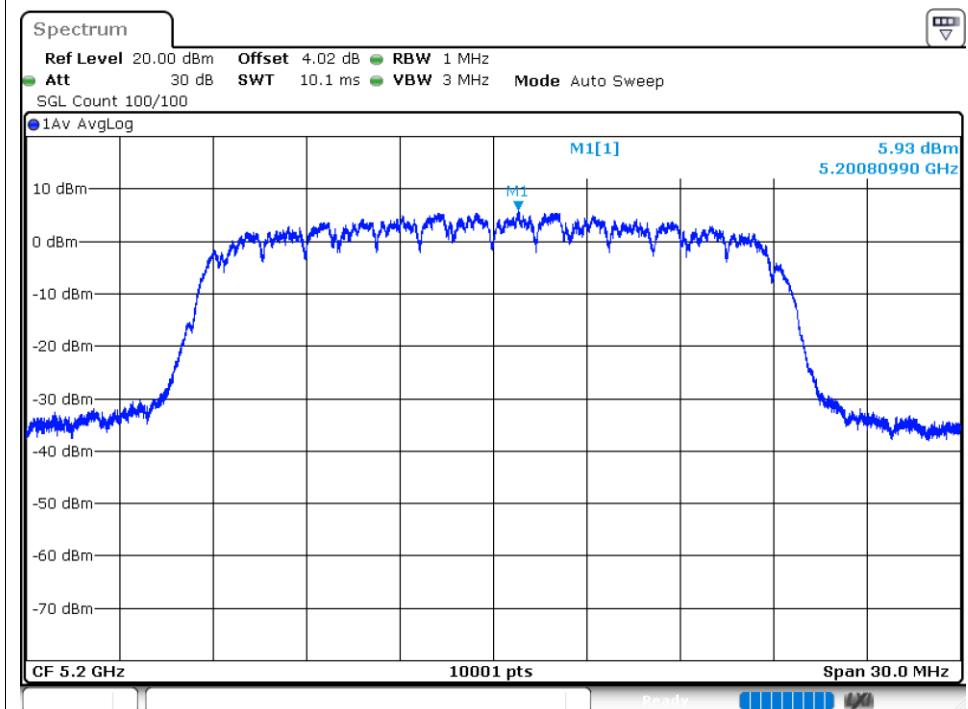
### PSD NVNT n40 5230MHz Ant1



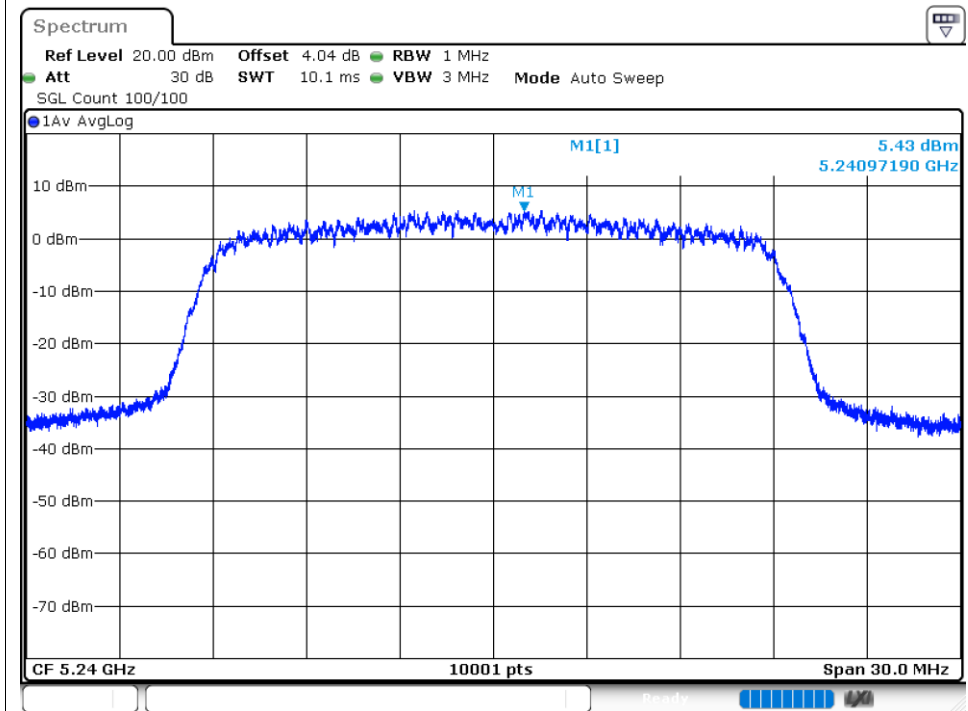
### PSD NVNT ac20 5180MHz Ant1



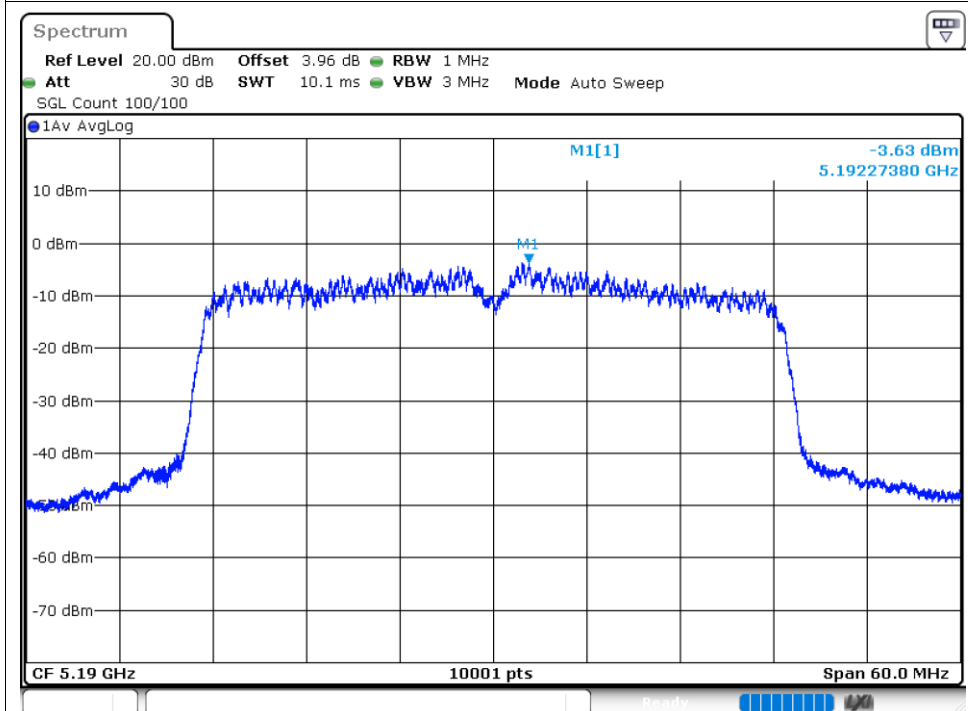
### PSD NVNT ac20 5200MHz Ant1



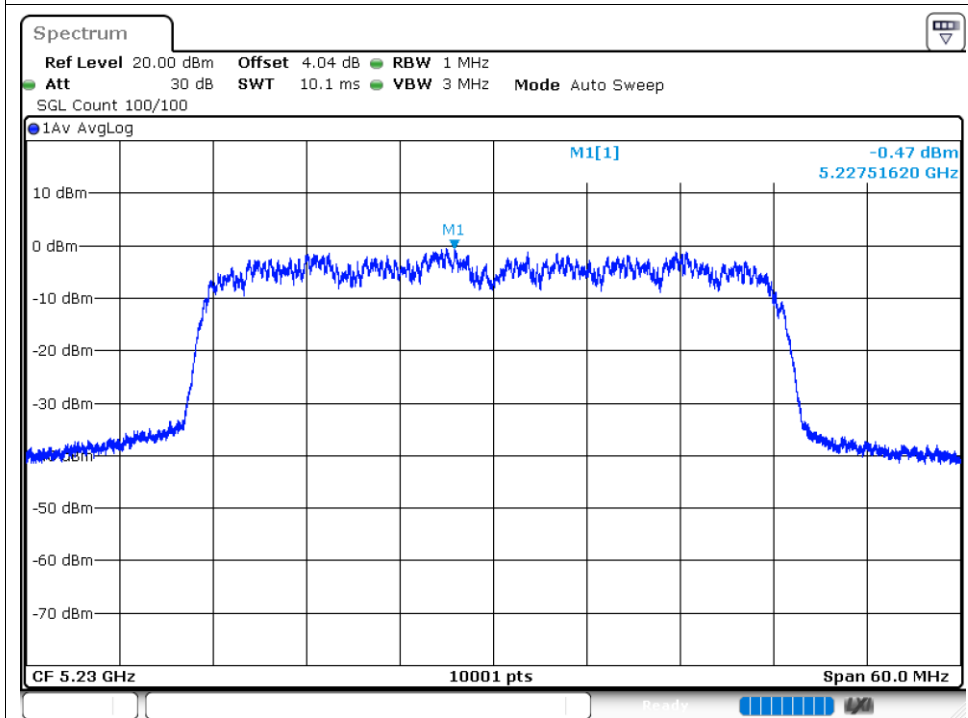
### PSD NVNT ac20 5240MHz Ant1



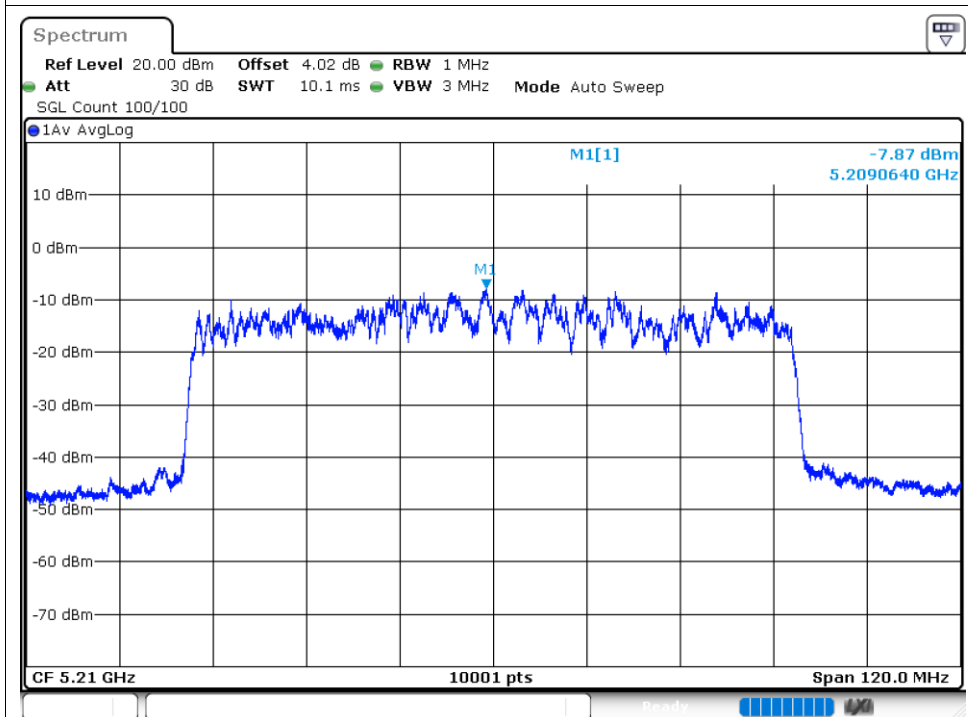
### PSD NVNT ac40 5190MHz Ant1



### PSD NVNT ac40 5230MHz Ant1



### PSD NVNT ac80 5210MHz Ant1



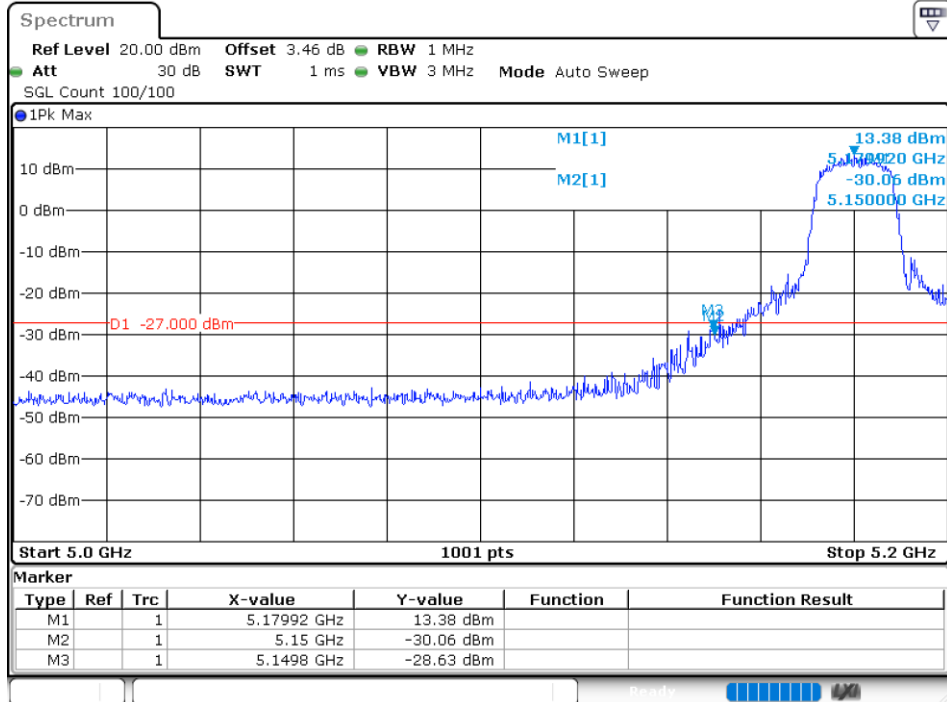
## Band Edge

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | a    | 5180            | Ant1    | -28.62          | -27         | Pass    |
| NVNT      | a    | 5240            | Ant1    | -41.74          | -27         | Pass    |
| NVNT      | n20  | 5180            | Ant1    | -27.27          | -27         | Pass    |
| NVNT      | n20  | 5240            | Ant1    | -42.86          | -27         | Pass    |
| NVNT      | n40  | 5190            | Ant1    | -28.78          | -27         | Pass    |
| NVNT      | n40  | 5230            | Ant1    | -41.94          | -27         | Pass    |
| NVNT      | ac20 | 5180            | Ant1    | -27.27          | -27         | Pass    |
| NVNT      | ac20 | 5240            | Ant1    | -42.58          | -27         | Pass    |
| NVNT      | ac40 | 5190            | Ant1    | -28.78          | -27         | Pass    |
| NVNT      | ac40 | 5230            | Ant1    | -42.54          | -27         | Pass    |
| NVNT      | ac80 | 5210            | Ant1    | -27.12          | -27         | Pass    |
| NVNT      | ac80 | 5210            | Ant1    | -39.54          | -27         | Pass    |

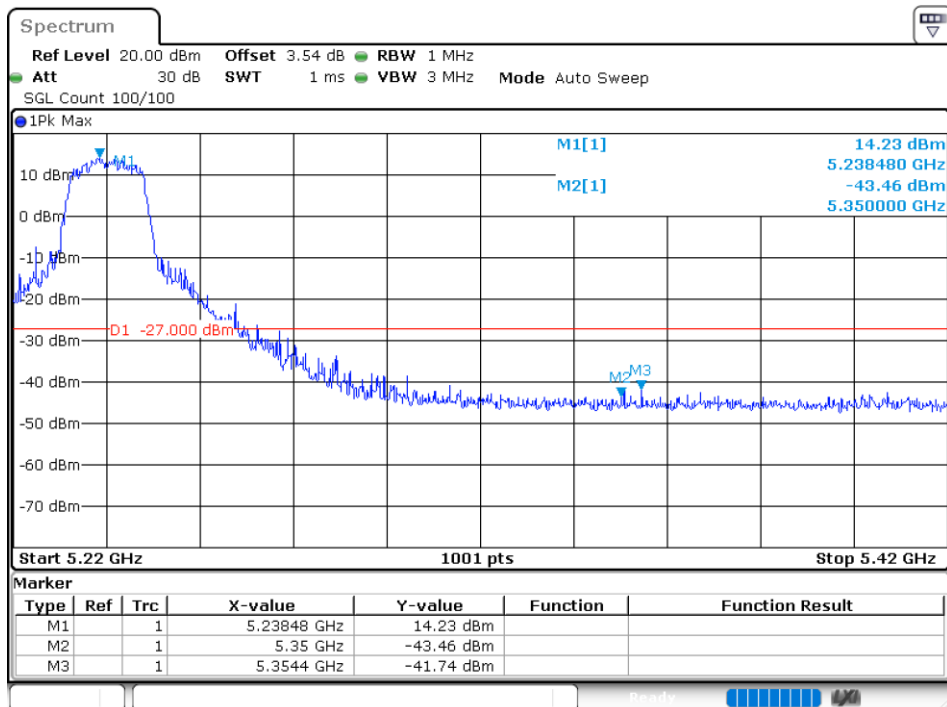
Note: This test has increased antenna gain.

## Test Graphs

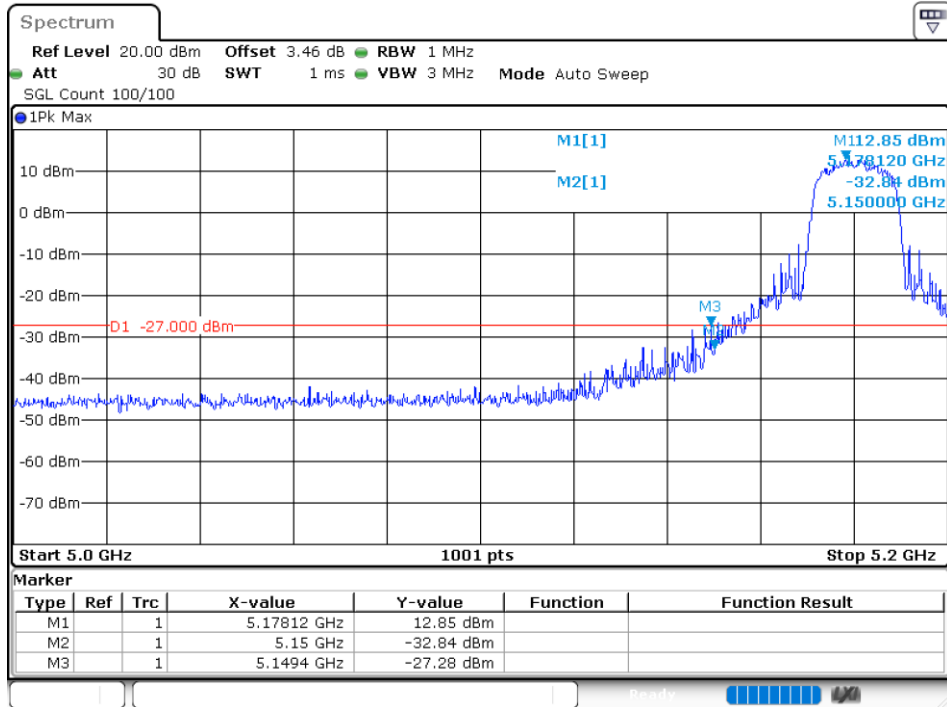
### Band Edge NVNT a 5180MHz Low Ant1



### Band Edge NVNT a 5240MHz High Ant1



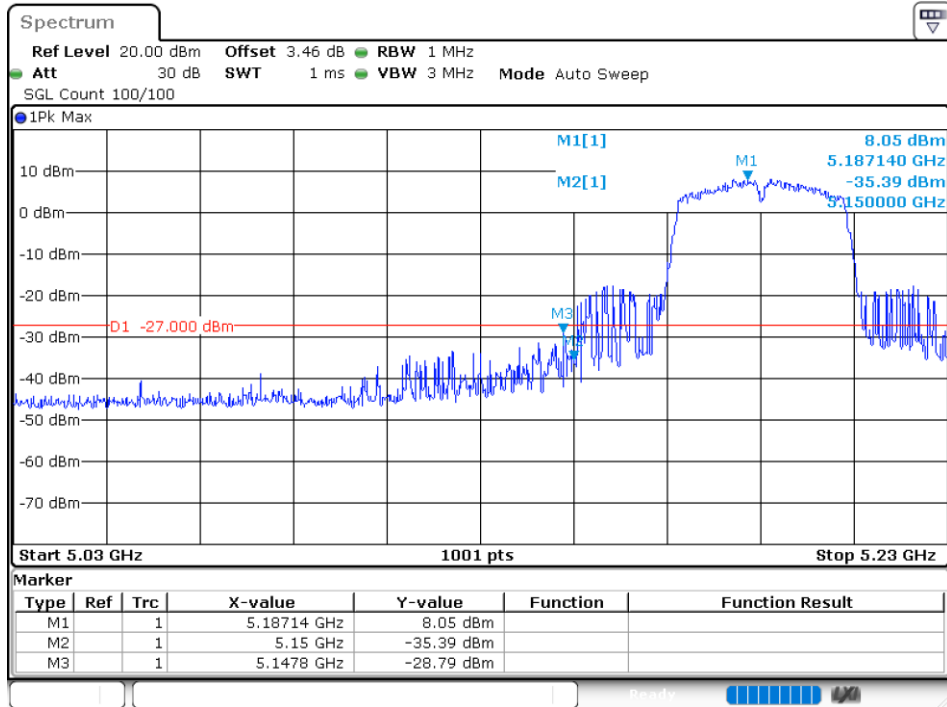
### Band Edge NVNT n20 5180MHz Low Ant1



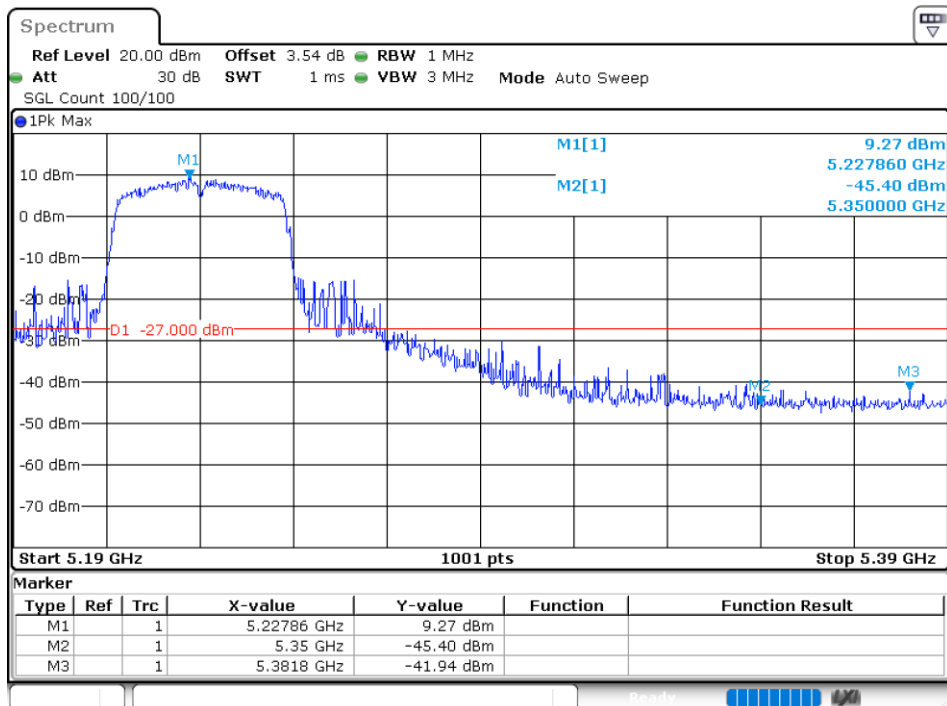
### Band Edge NVNT n20 5240MHz High Ant1



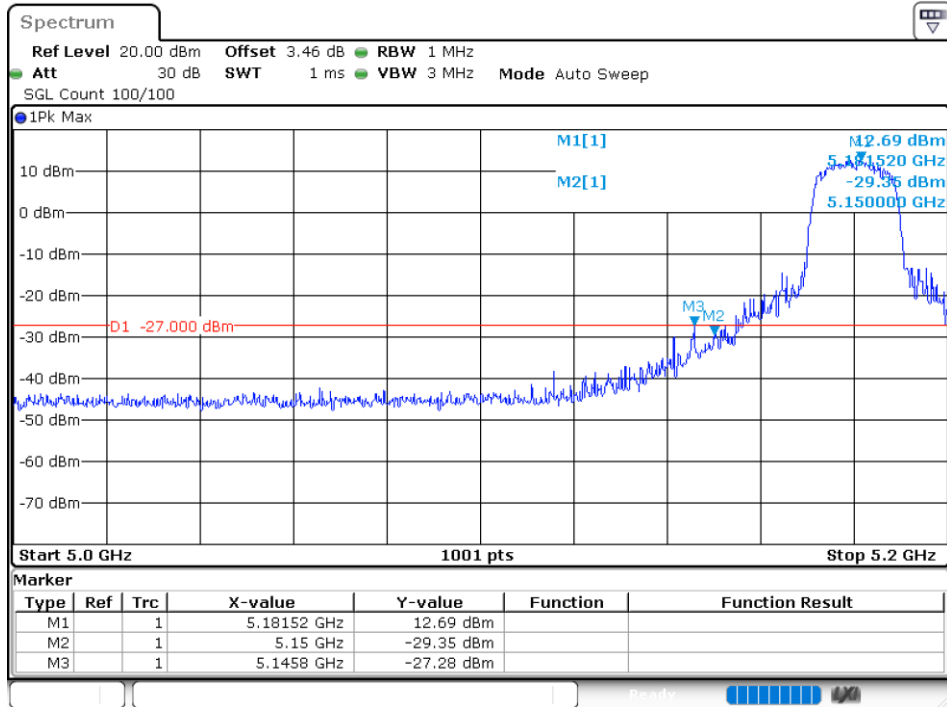
### Band Edge NVNT n40 5190MHz Low Ant1



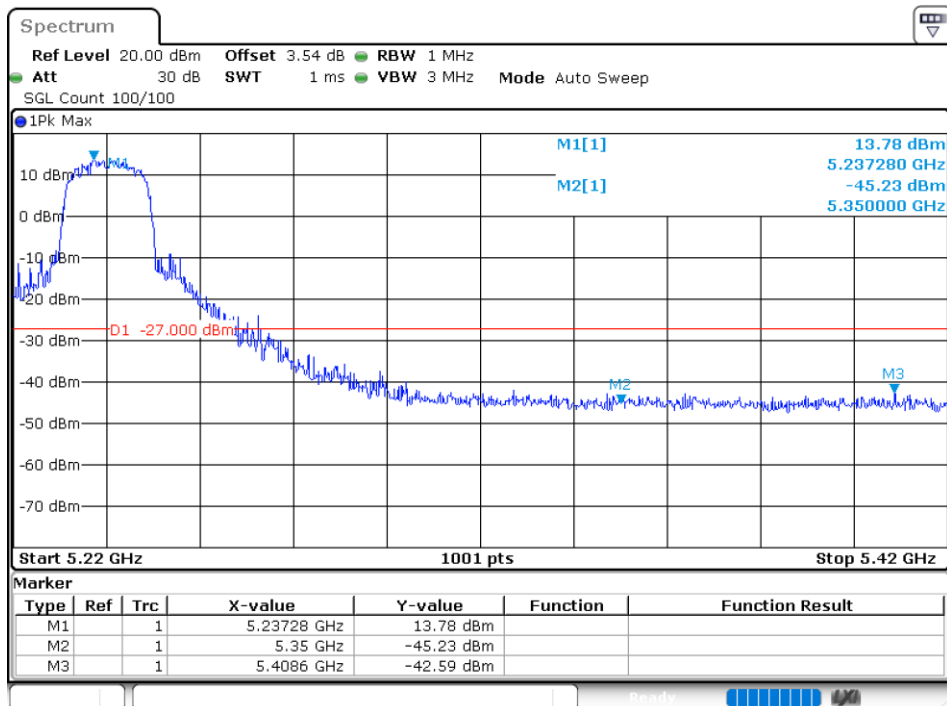
### Band Edge NVNT n40 5230MHz High Ant1



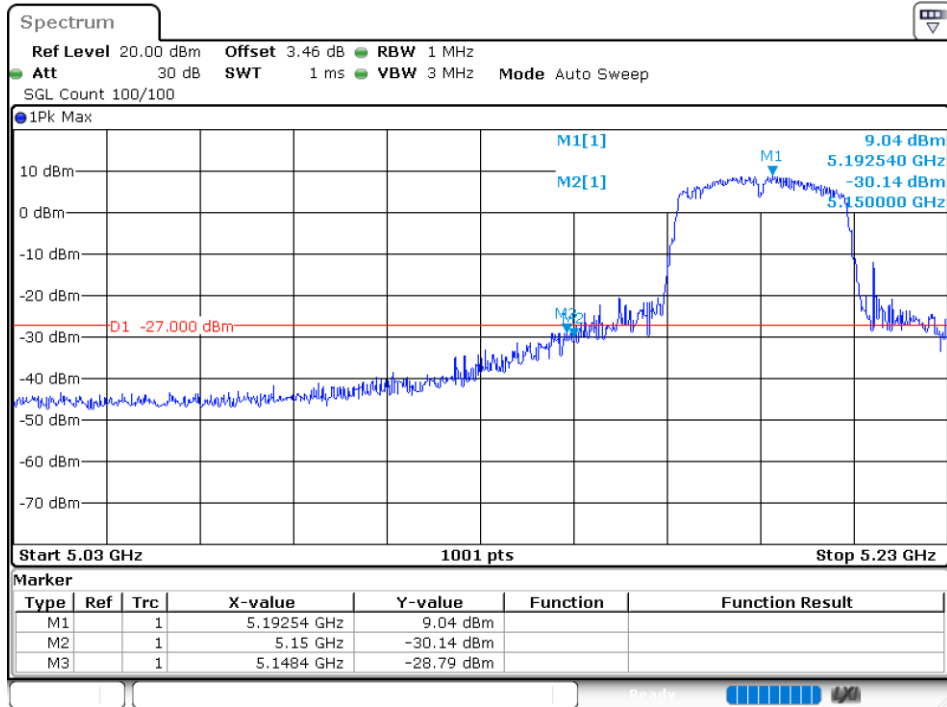
### Band Edge NVNT ac20 5180MHz Low Ant1



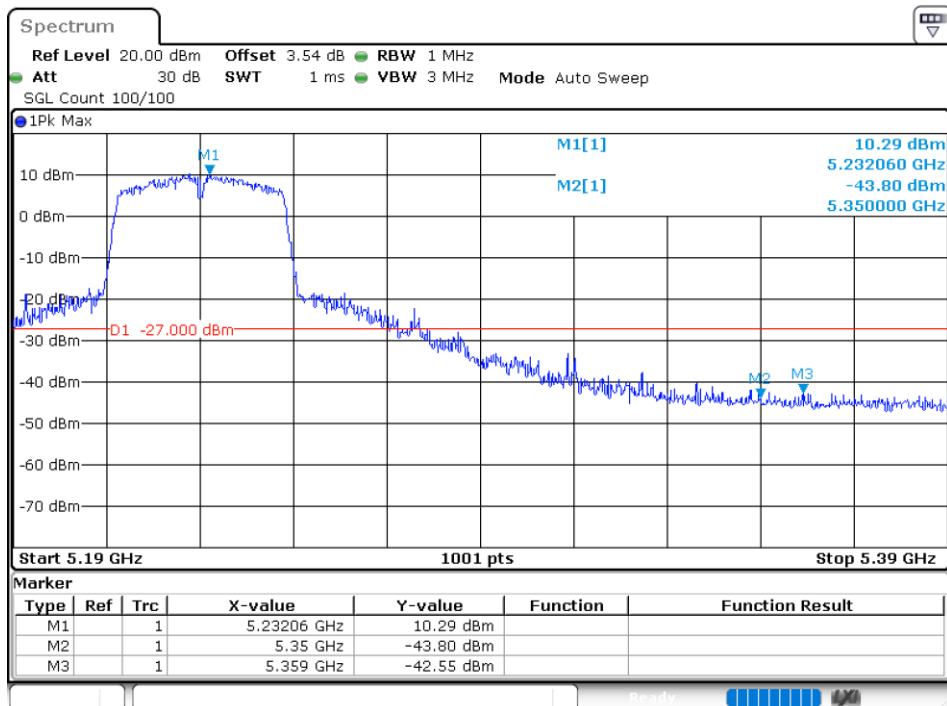
### Band Edge NVNT ac20 5240MHz High Ant1



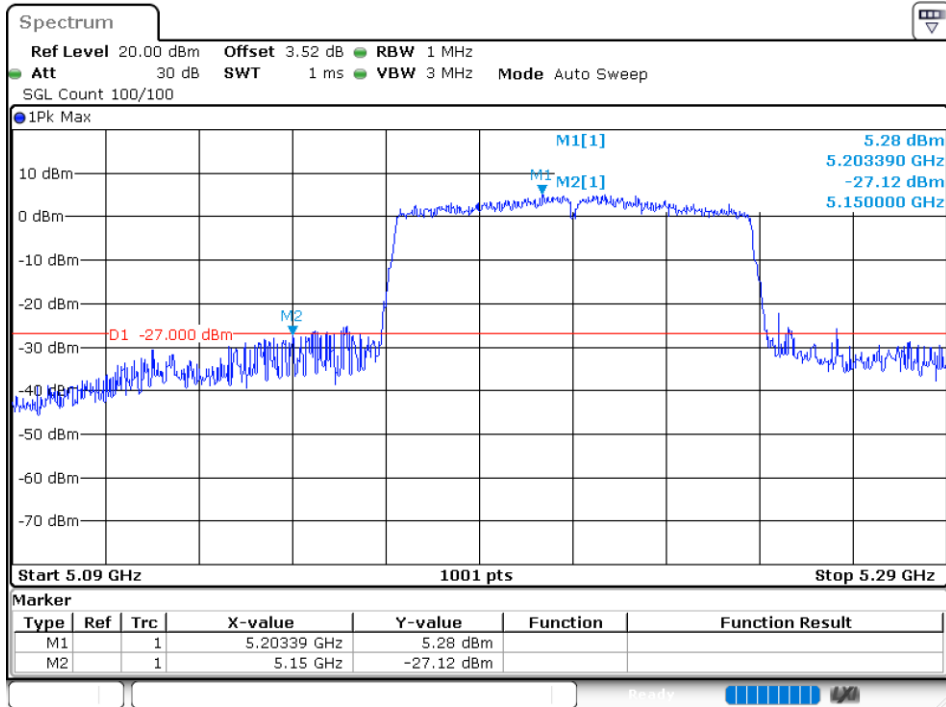
### Band Edge NVNT ac40 5190MHz Low Ant1



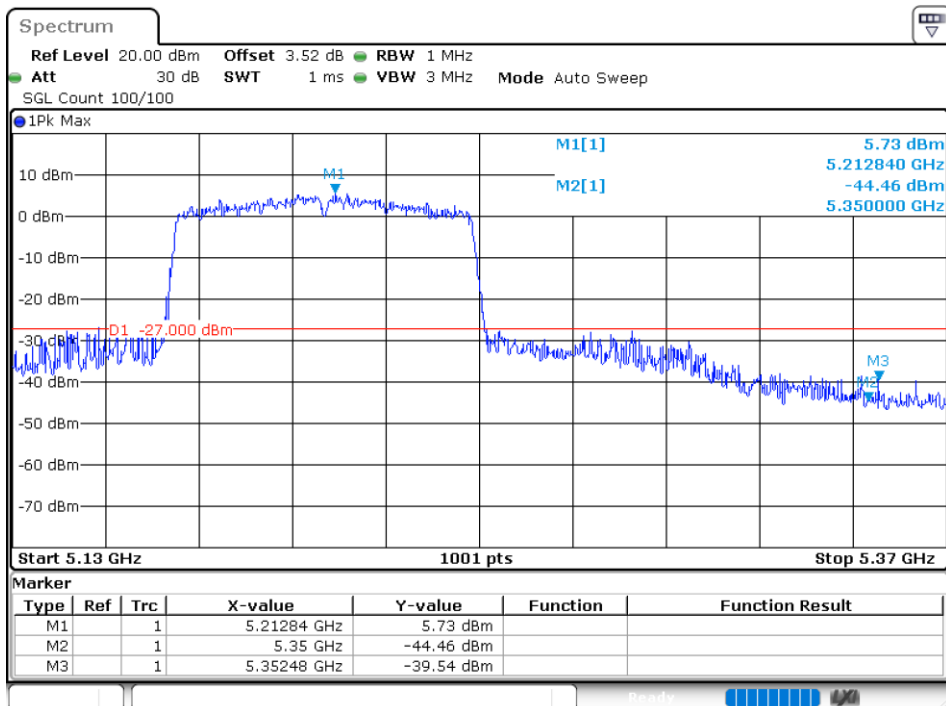
### Band Edge NVNT ac40 5230MHz High Ant1



### Band Edge NVNT ac80 5210MHz Low Ant1



### Band Edge NVNT ac80 5210MHz High Ant1



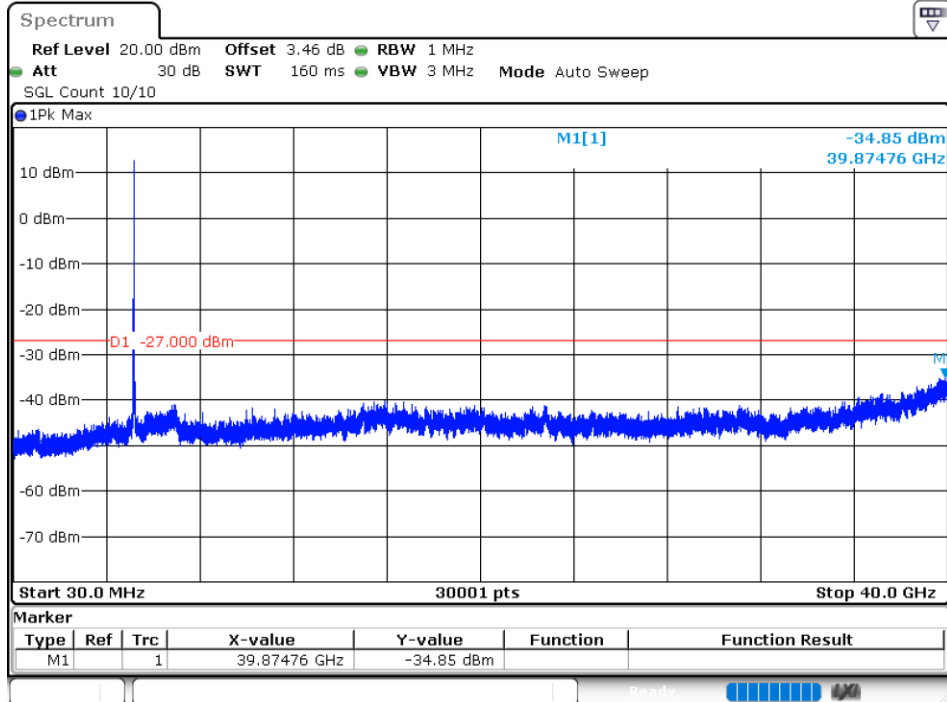
## Conducted RF Spurious Emission

| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | a    | 5180            | Ant1    | -34.85          | -27         | Pass    |
| NVNT      | a    | 5200            | Ant1    | -34.9           | -27         | Pass    |
| NVNT      | a    | 5240            | Ant1    | -33.64          | -27         | Pass    |
| NVNT      | n20  | 5180            | Ant1    | -34.52          | -27         | Pass    |
| NVNT      | n20  | 5200            | Ant1    | -34.07          | -27         | Pass    |
| NVNT      | n20  | 5240            | Ant1    | -34.84          | -27         | Pass    |
| NVNT      | n40  | 5190            | Ant1    | -34.55          | -27         | Pass    |
| NVNT      | n40  | 5230            | Ant1    | -34.62          | -27         | Pass    |
| NVNT      | ac20 | 5180            | Ant1    | -35.07          | -27         | Pass    |
| NVNT      | ac20 | 5200            | Ant1    | -34.97          | -27         | Pass    |
| NVNT      | ac20 | 5240            | Ant1    | -34.13          | -27         | Pass    |
| NVNT      | ac40 | 5190            | Ant1    | -34.36          | -27         | Pass    |
| NVNT      | ac40 | 5230            | Ant1    | -34.5           | -27         | Pass    |
| NVNT      | ac80 | 5210            | Ant1    | -34.79          | -27         | Pass    |

Note: This test has increased antenna gain.

## Test Graphs

### Tx. Spurious NVNT a 5180MHz Ant1 Emission



### Tx. Spurious NVNT a 5200MHz Ant1 Emission

