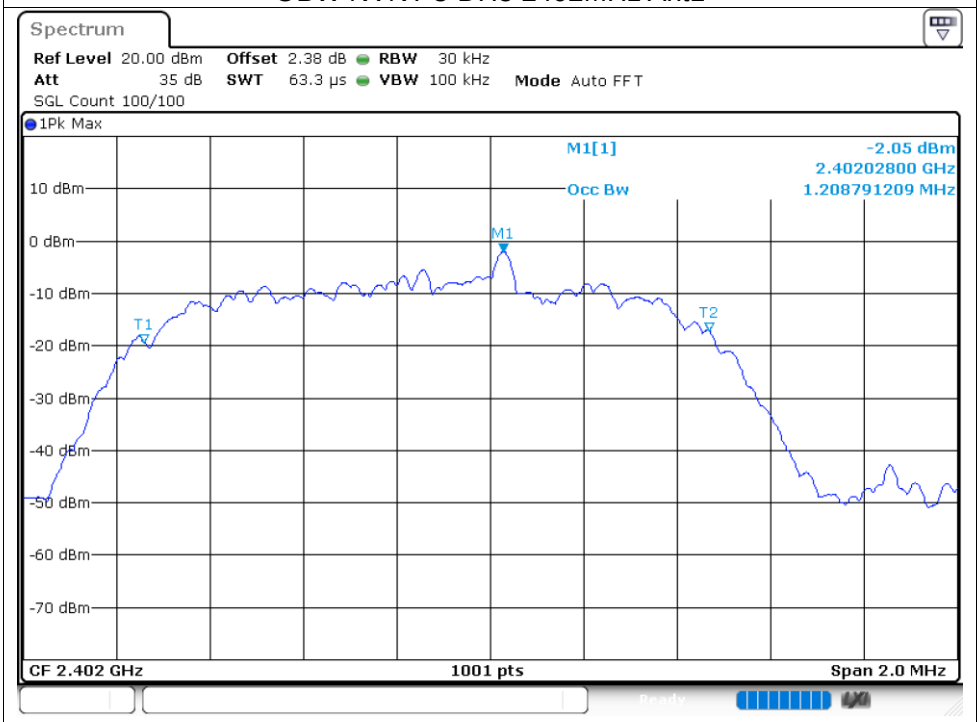
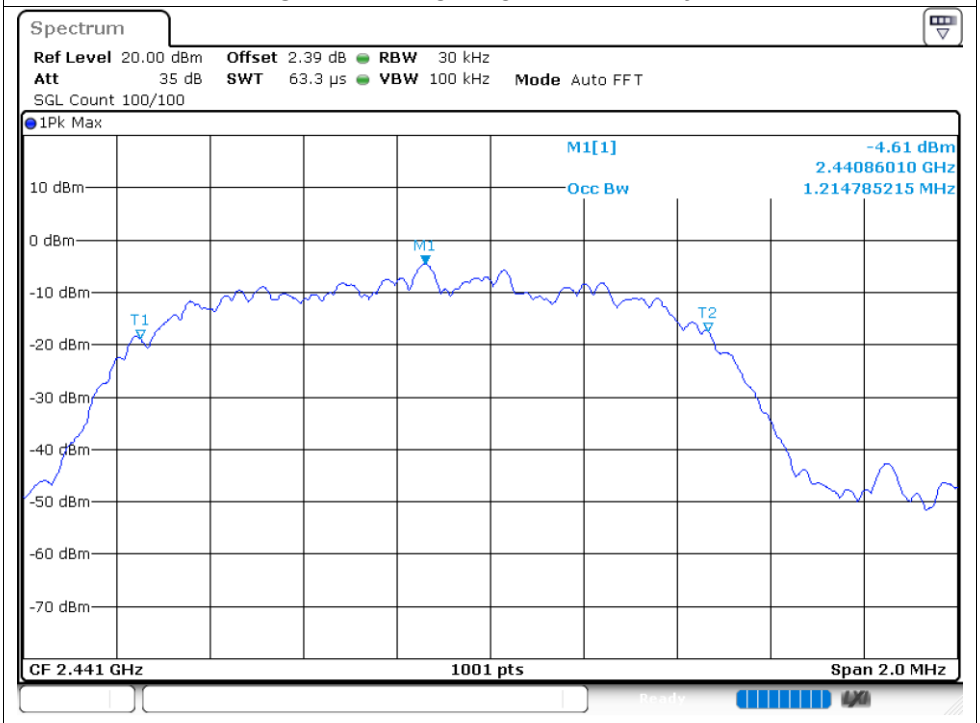
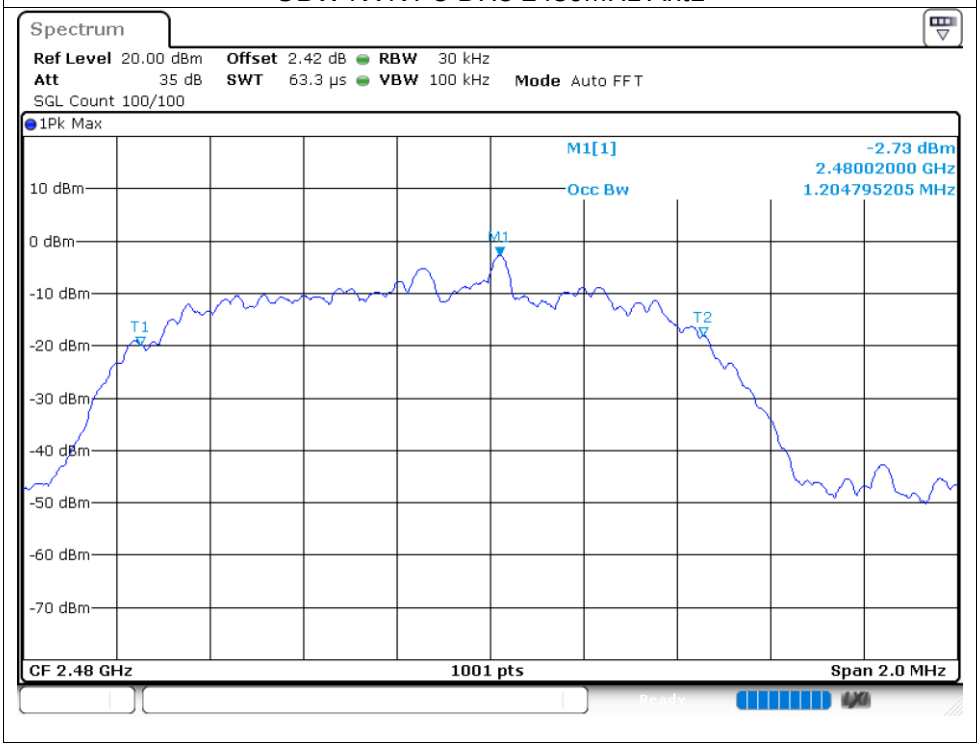
OBW NVNT 3-DH5 2402MHz Ant1




OBW NVNT 3-DH5 2441MHz Ant1



OBW NVNT 3-DH5 2480MHz Ant1

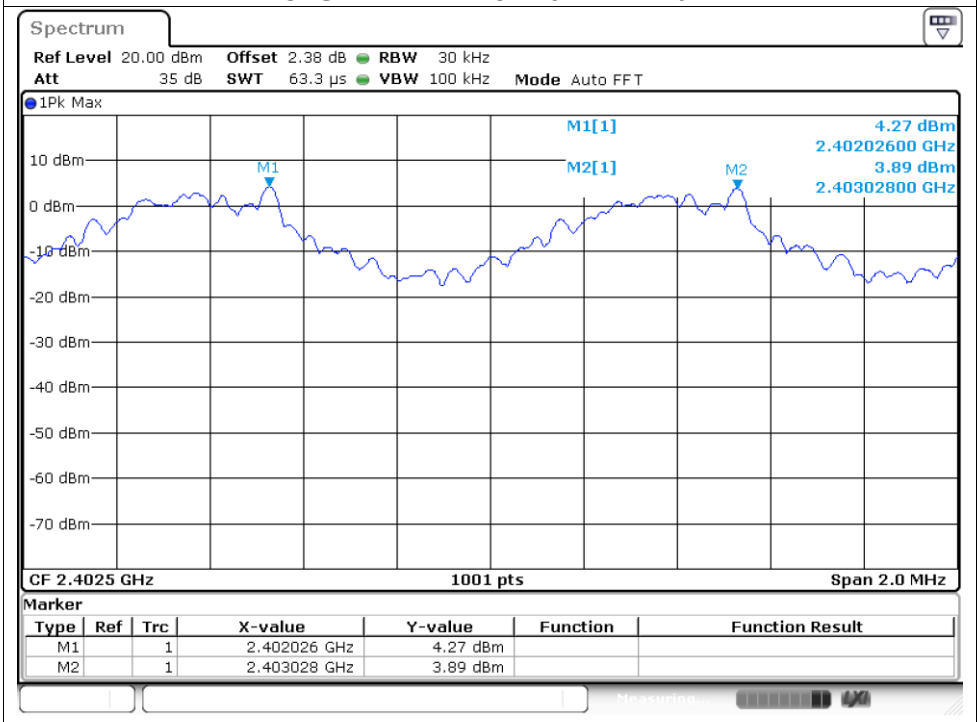


## 8.5 CARRIER FREQUENCIES SEPARATION

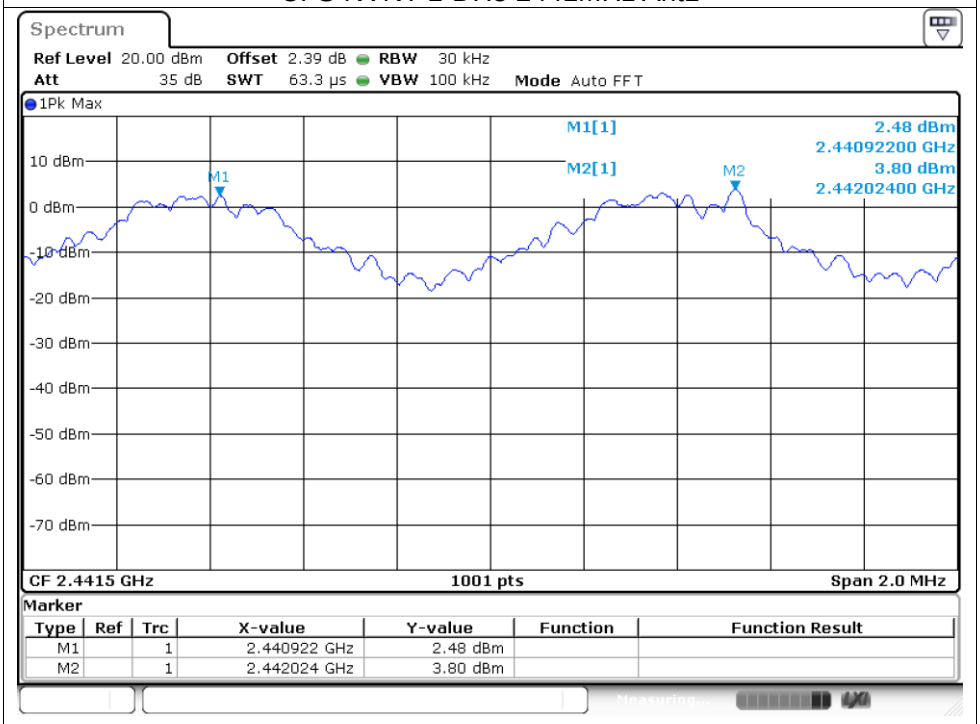
| Condition | Mode | Antenna | Hopping Freq1 (MHz) | Hopping Freq2 (MHz) | HFS (MHz) | Limit (MHz) | Verdict |
|---|---|---|---|---|---|---|---|
| NVNT | 1-DH5 | Ant1 | 2402.026 | 2403.028 | 1.002 | 0.025 | Pass |
| NVNT | 1-DH5 | Ant1 | 2440.922 | 2442.024 | 1.102 | 0.025 | Pass |
| NVNT | 1-DH5 | Ant1 | 2479.02 | 2480.022 | 1.002 | 0.025 | Pass |
| NVNT | 2-DH5 | Ant1 | 2402.03 | 2402.868 | 0.838 | 0.025 | Pass |
| NVNT | 2-DH5 | Ant1 | 2440.868 | 2442.026 | 1.158 | 0.025 | Pass |
| NVNT | 2-DH5 | Ant1 | 2478.86 | 2479.868 | 1.008 | 0.025 | Pass |
| NVNT | 3-DH5 | Ant1 | 2401.87 | 2402.706 | 0.836 | 0.025 | Pass |
| NVNT | 3-DH5 | Ant1 | 2440.87 | 2442.028 | 1.158 | 0.025 | Pass |
| NVNT | 3-DH5 | Ant1 | 2479.02 | 2480.024 | 1.004 | 0.025 | Pass |

## Test Graphs

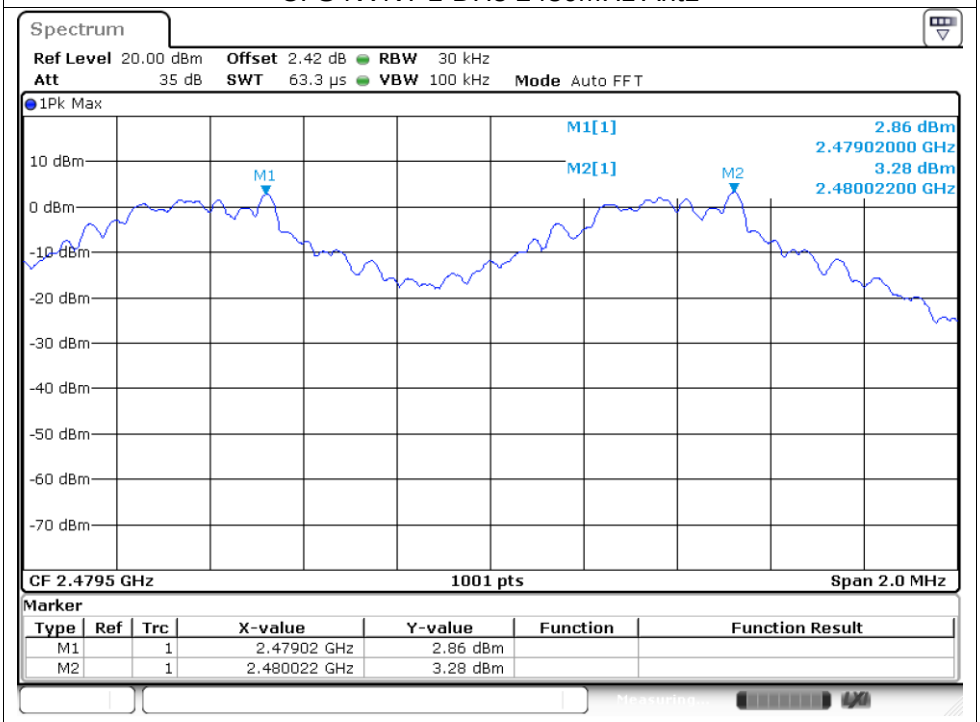
### CFS NVNT 1-DH5 2402MHz Ant1



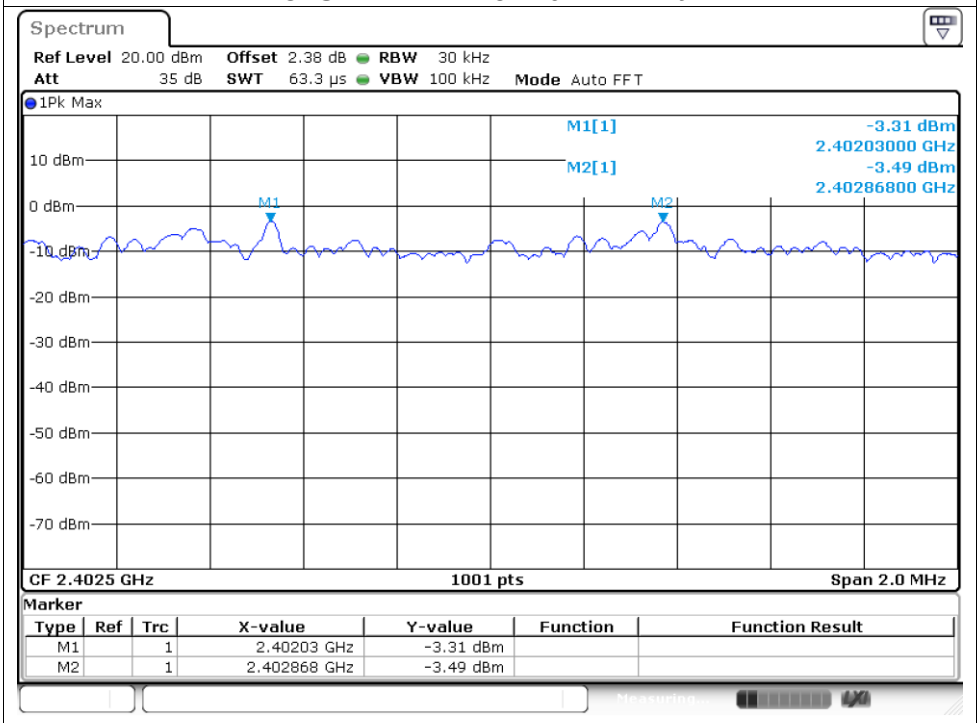

### CFS NVNT 1-DH5 2441MHz Ant1



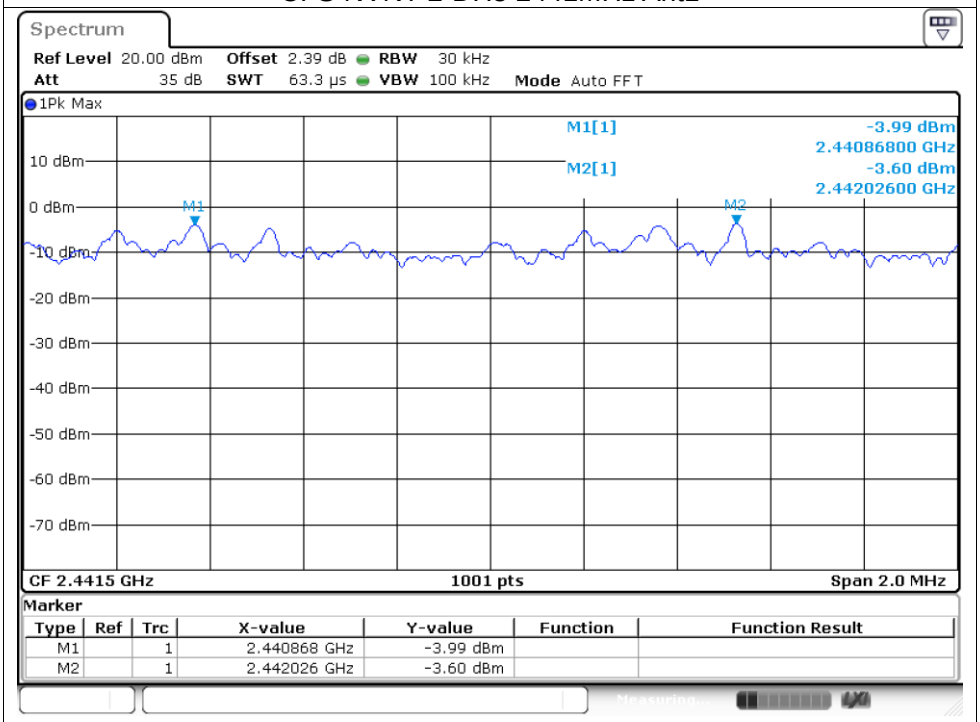
CFS NVNT 1-DH5 2480MHz Ant1



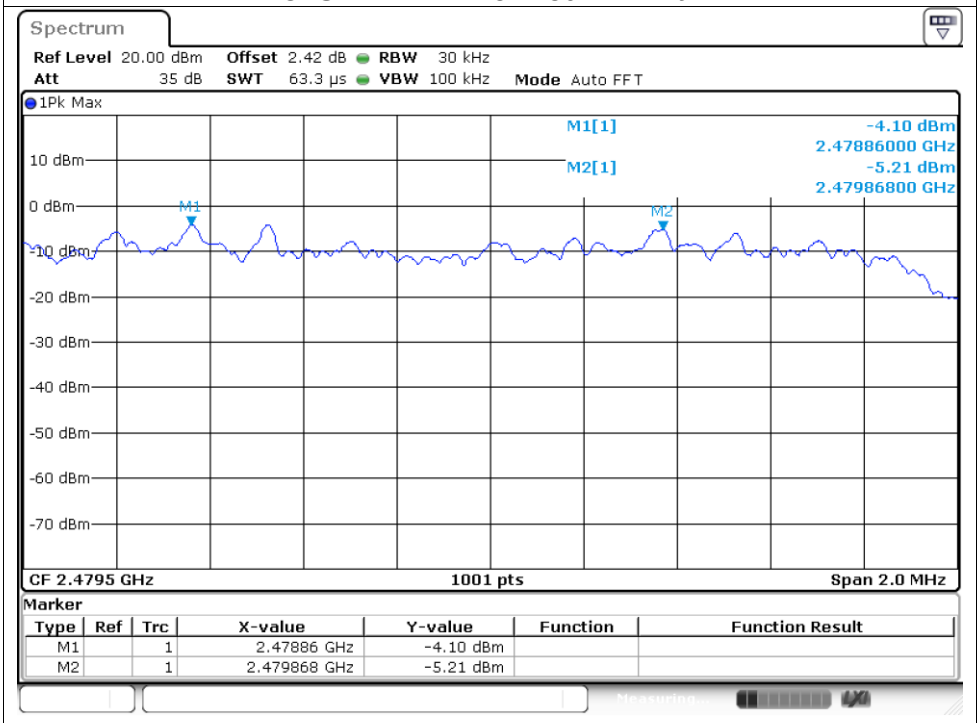

CFS NVNT 2-DH5 2402MHz Ant1



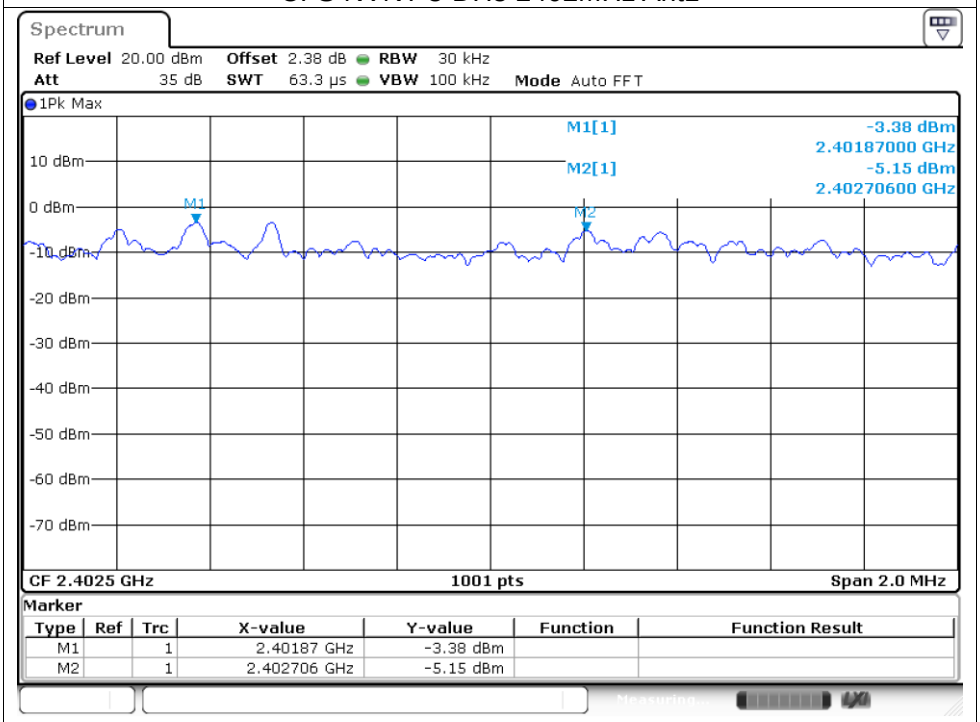
CFS NVNT 2-DH5 2441MHz Ant1



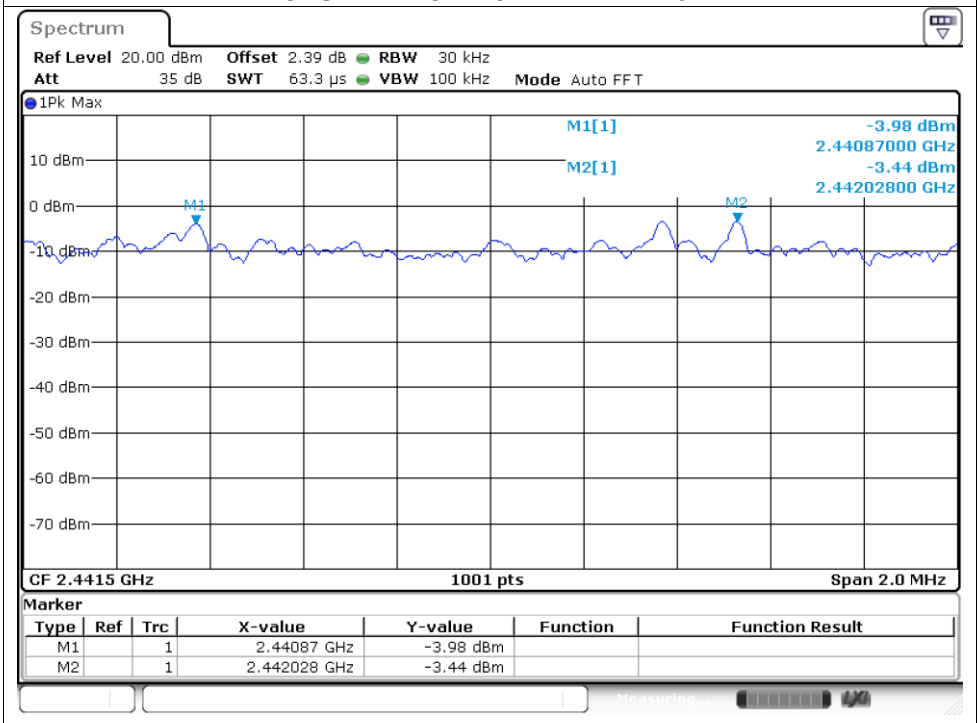

CFS NVNT 2-DH5 2480MHz Ant1



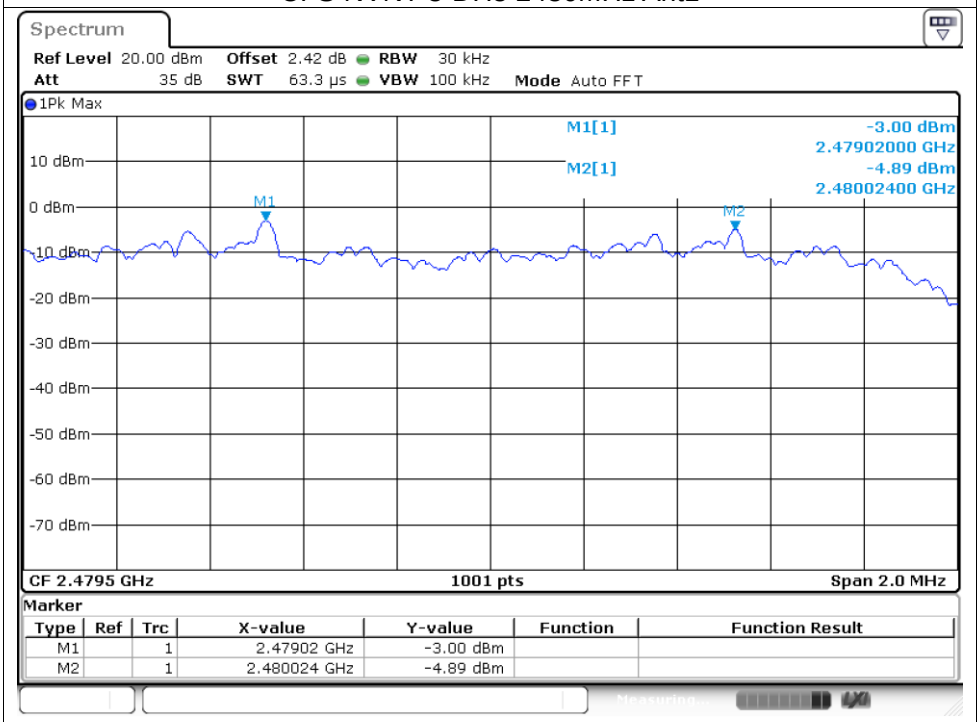
CFS NVNT 3-DH5 2402MHz Ant1




CFS NVNT 3-DH5 2441MHz Ant1



CFS NVNT 3-DH5 2480MHz Ant1

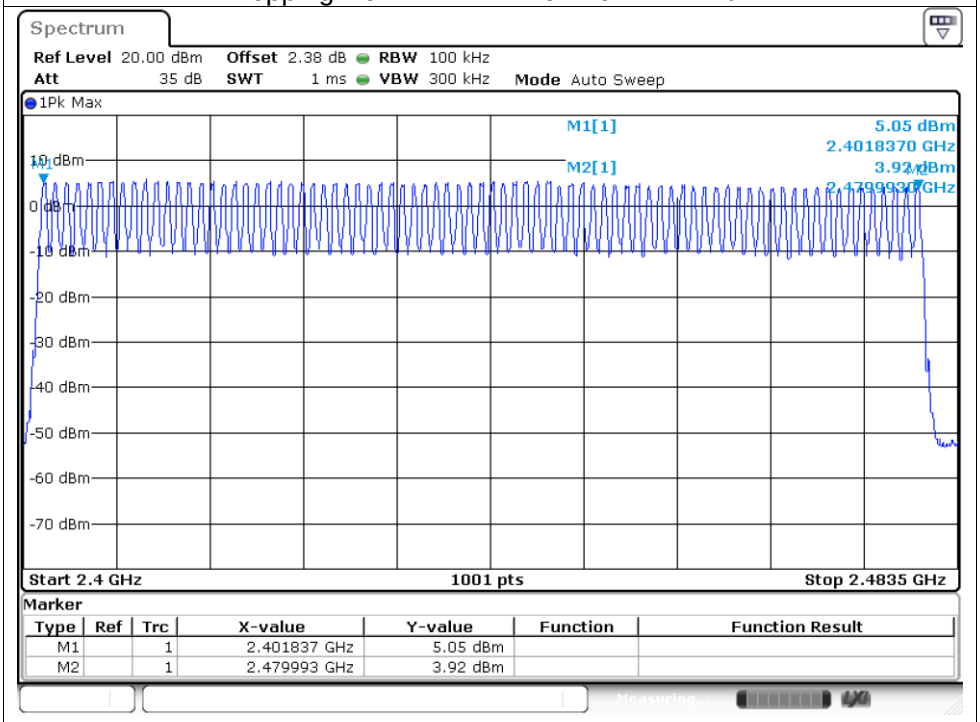


## 8.6 NUMBER OF HOPPING CHANNEL

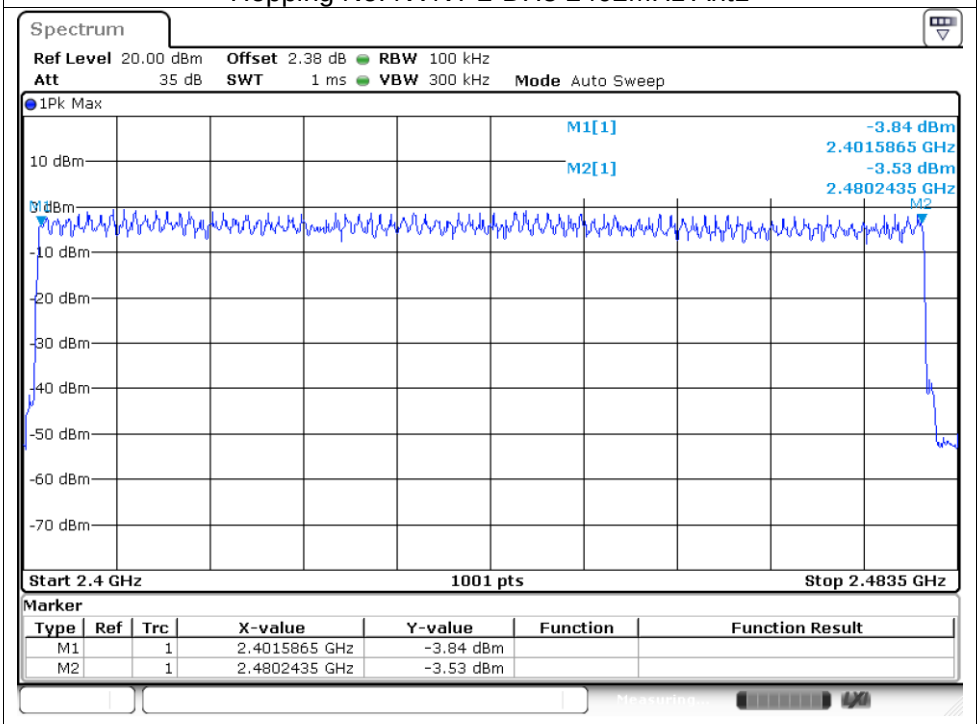
| Condition | Mode | Antenna | Hopping Number | Limit | Verdict |
|---|---|---|---|---|---|
| NVNT | 1-DH5 | Ant1 | 79 | 15 | Pass |
| NVNT | 2-DH5 | Ant1 | 79 | 15 | Pass |
| NVNT | 3-DH5 | Ant1 | 79 | 15 | Pass |

## Test Graphs

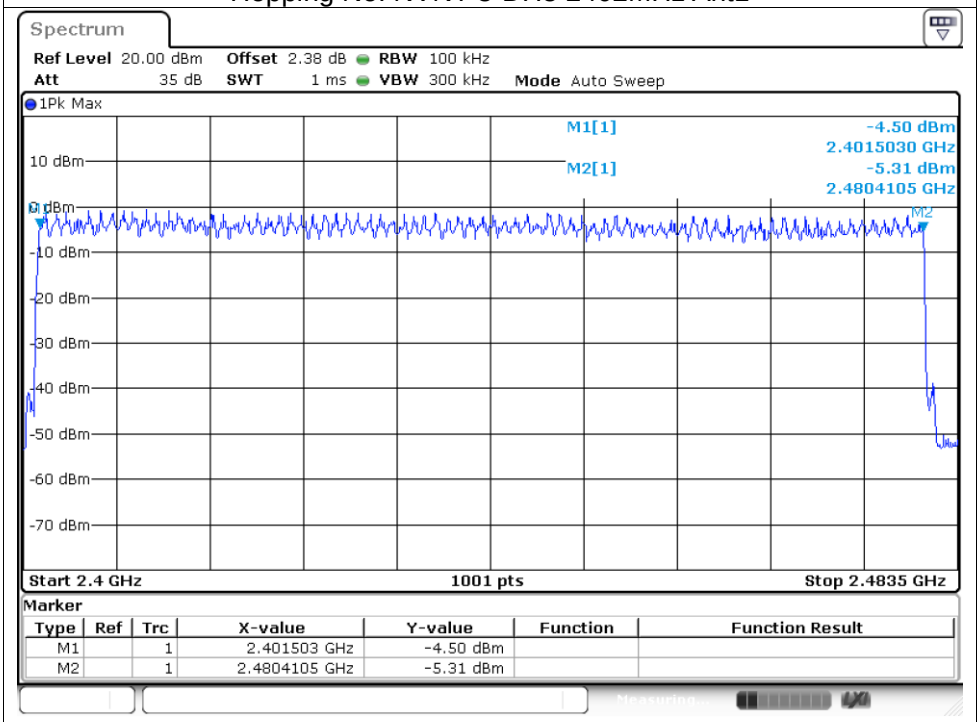
### Hopping No. NVNT 1-DH5 2402MHz Ant1




### Hopping No. NVNT 2-DH5 2402MHz Ant1



Hopping No. NVNT 3-DH5 2402MHz Ant1

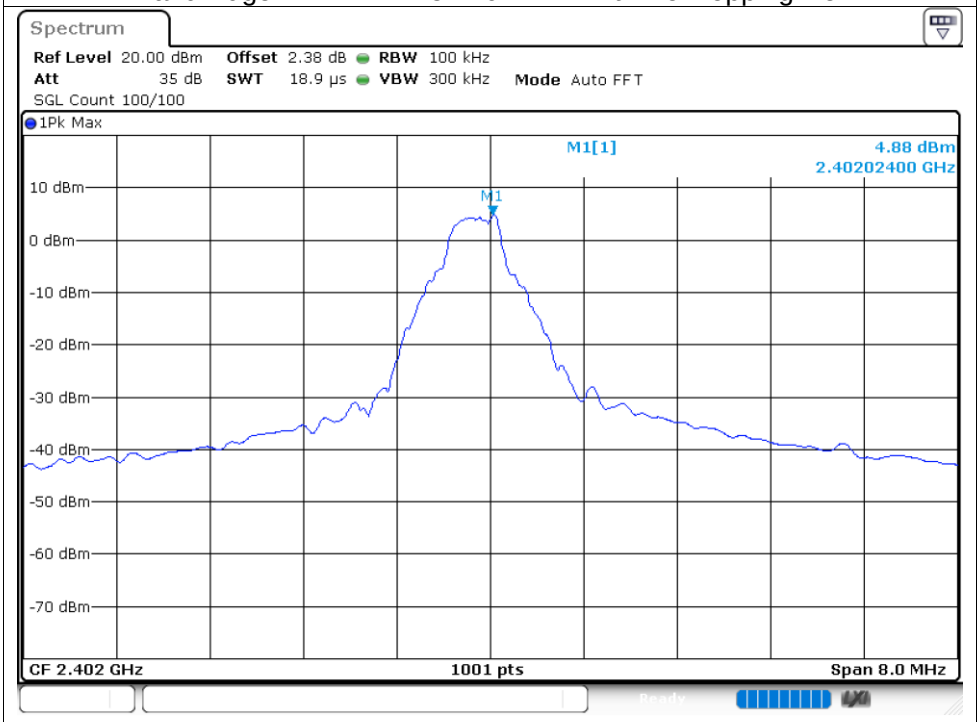


## 8.7 BAND EDGE

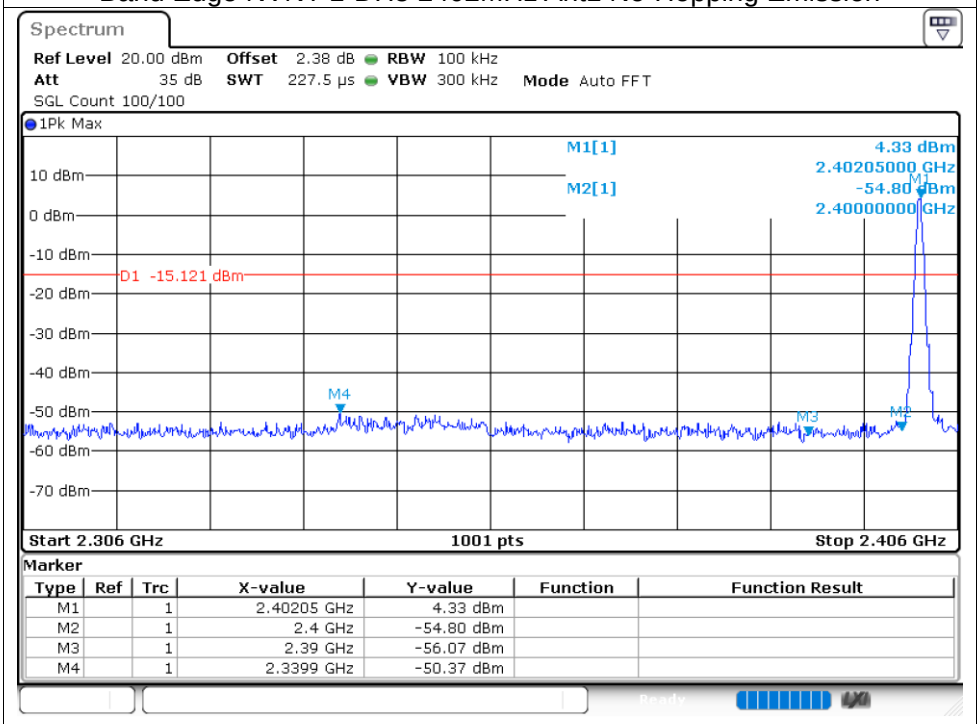
| Condition | Mode | Frequency (MHz) | Antenna | Hopping Mode | Max Value (dBc) | Limit (dBc) | Verdict |
|---|---|---|---|---|---|---|---|
| NVNT | 1-DH5 | 2402 | Ant1 | No-Hopping | -55.24 | -20 | Pass |
| NVNT | 1-DH5 | 2480 | Ant1 | No-Hopping | -56.06 | -20 | Pass |
| NVNT | 2-DH5 | 2402 | Ant1 | No-Hopping | -47.6 | -20 | Pass |
| NVNT | 2-DH5 | 2480 | Ant1 | No-Hopping | -50.39 | -20 | Pass |
| NVNT | 3-DH5 | 2402 | Ant1 | No-Hopping | -47.71 | -20 | Pass |
| NVNT | 3-DH5 | 2480 | Ant1 | No-Hopping | -49.93 | -20 | Pass |

## Test Graphs

### Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



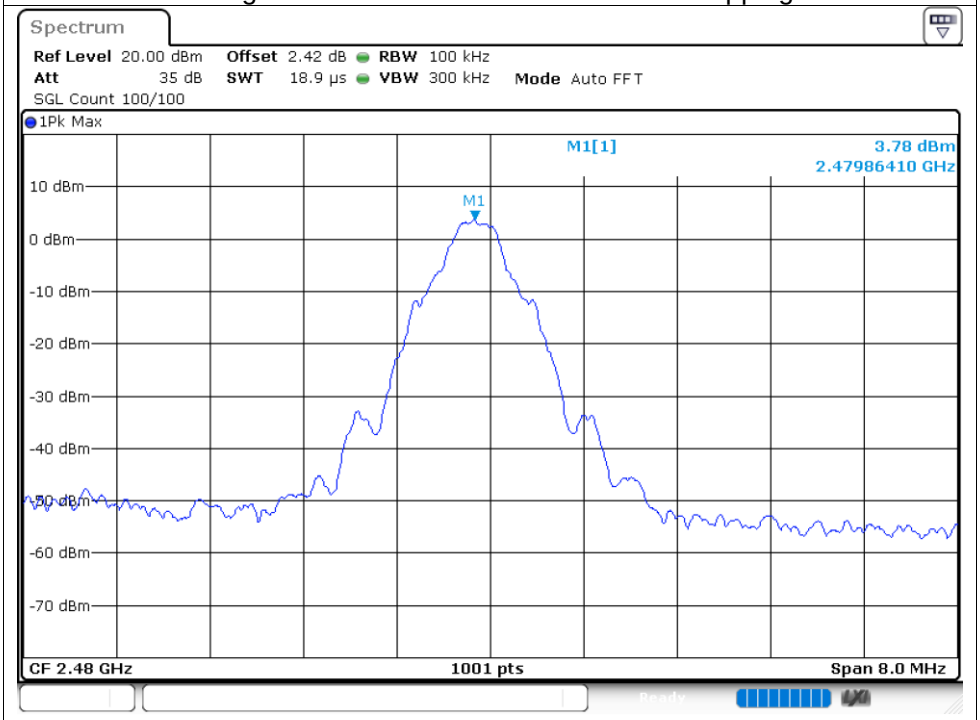

### Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



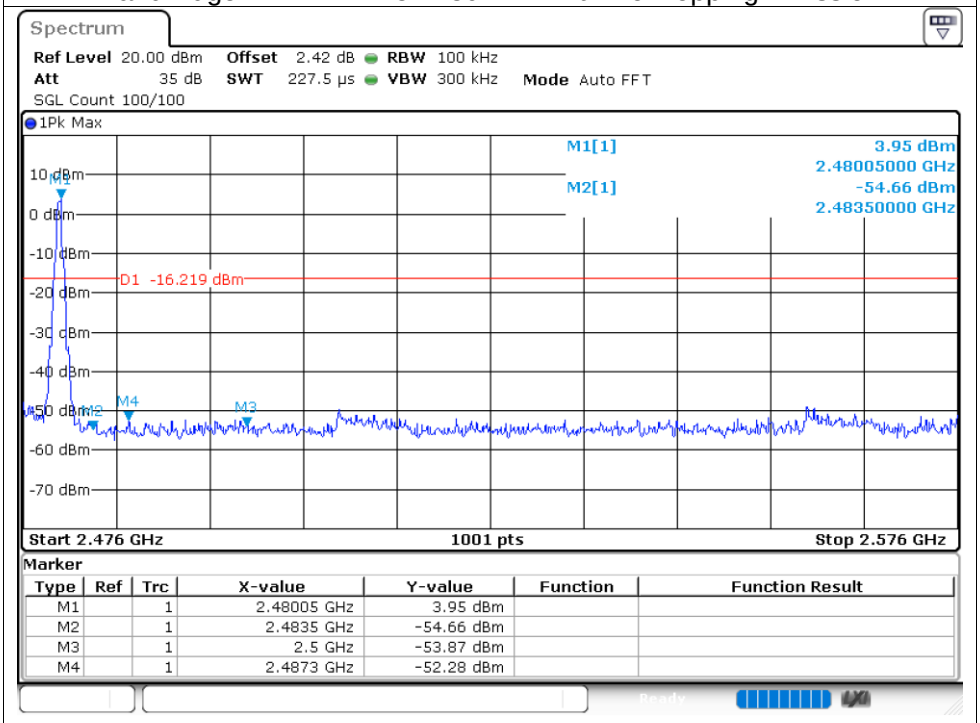

Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 2.40205 GHz | 4.33 dBm | | |
| M2 | | 1 | 2.4 GHz | -54.80 dBm | | |
| M3 | | 1 | 2.39 GHz | -56.07 dBm | | |
| M4 | | 1 | 2.3399 GHz | -50.37 dBm | | |

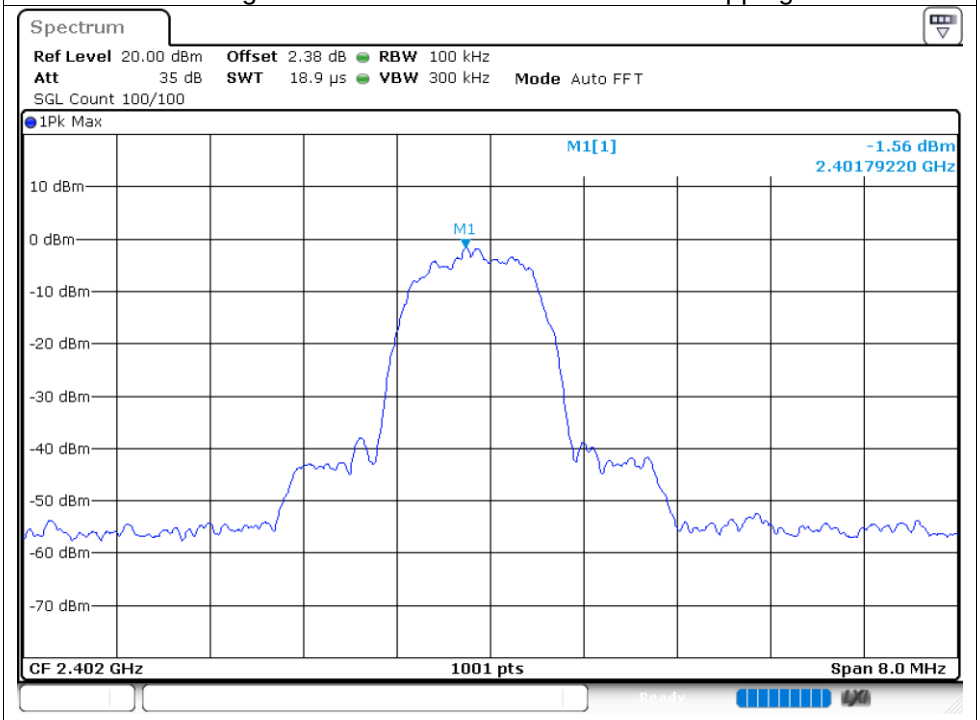
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



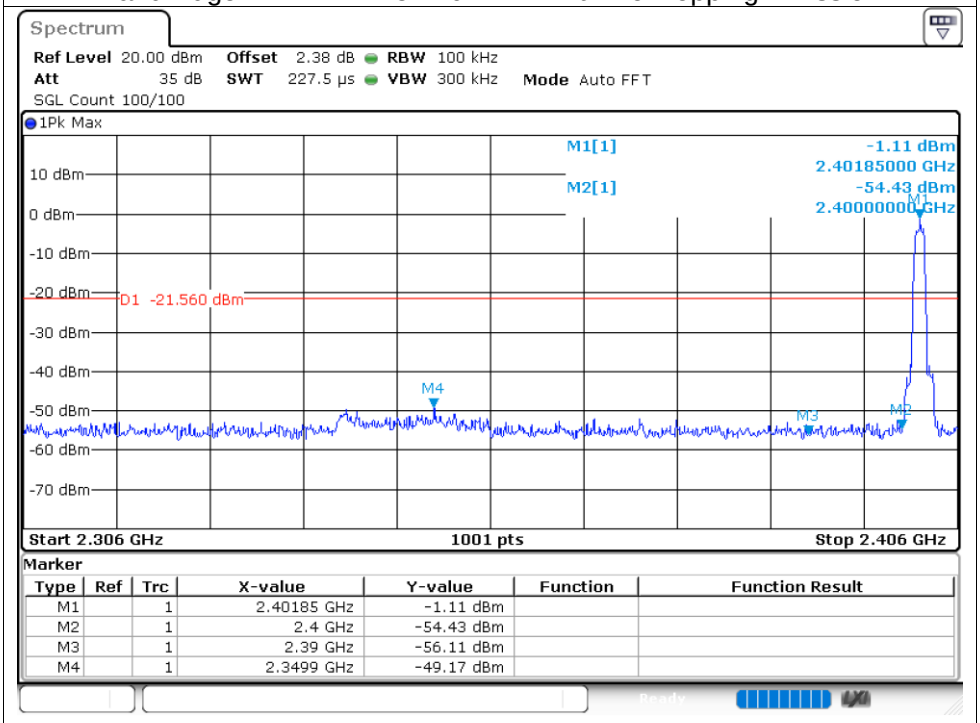

Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission



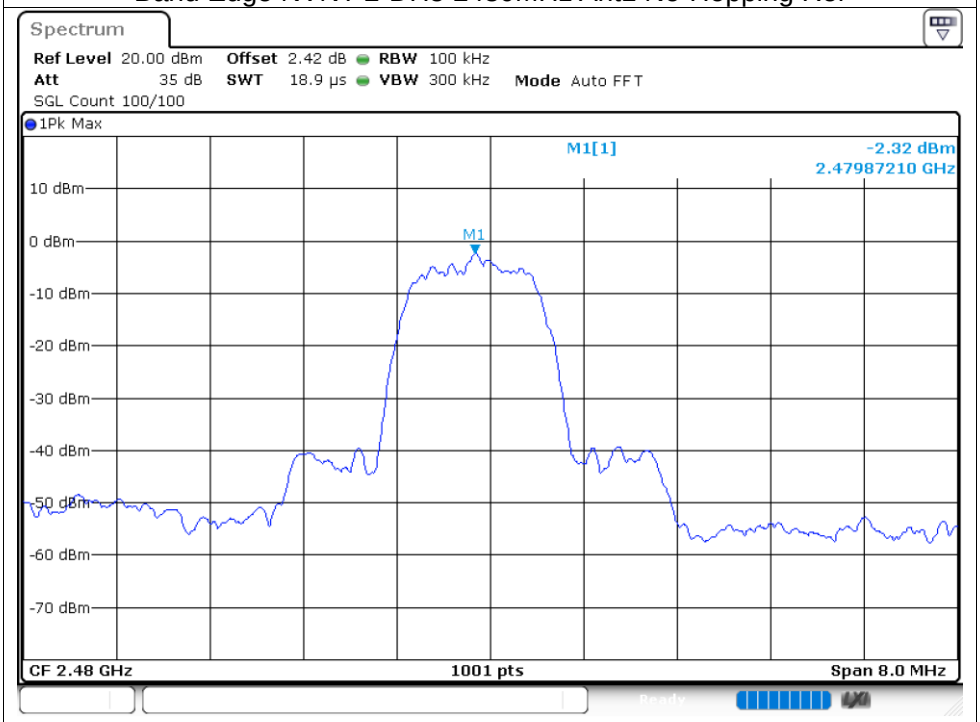
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



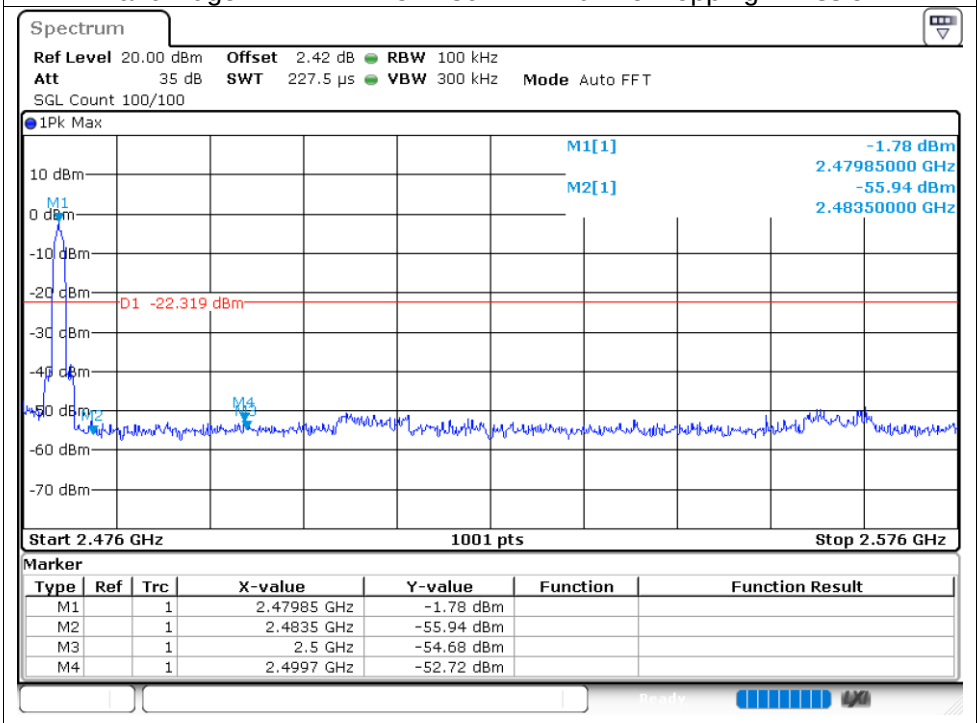

Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



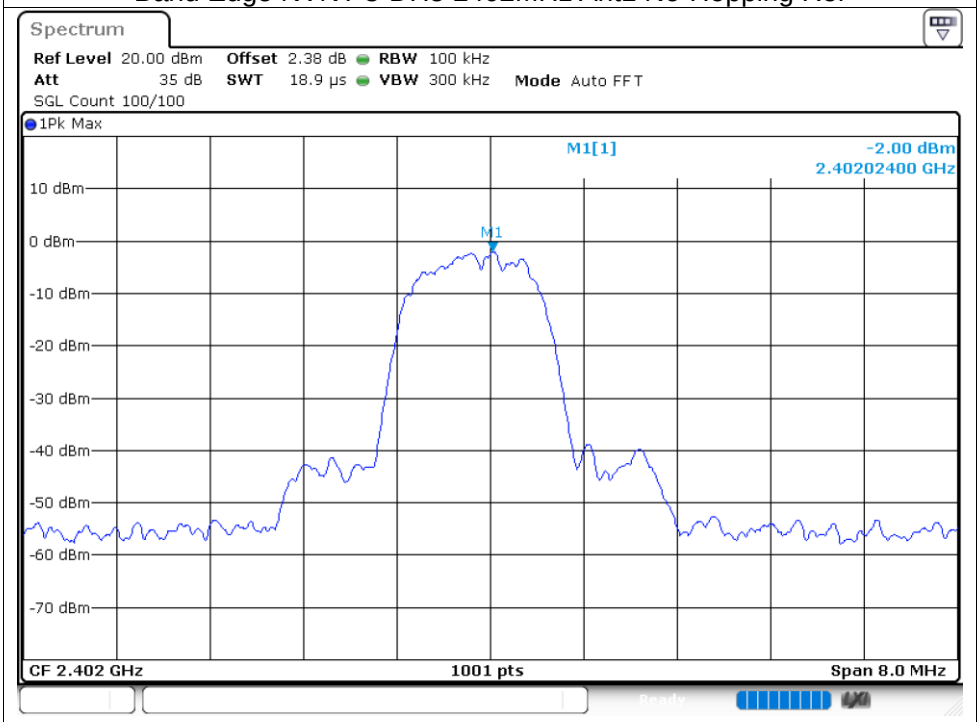

Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



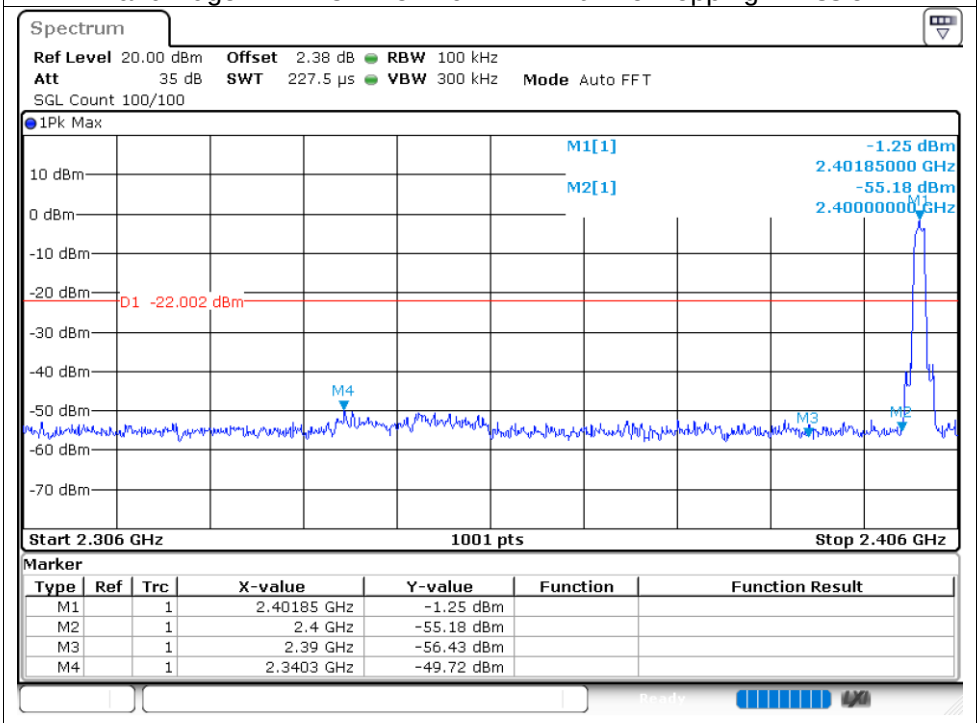

Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 2.47985 GHz | -1.78 dBm | | |
| M2 | | 1 | 2.4835 GHz | -55.94 dBm | | |
| M3 | | 1 | 2.5 GHz | -54.68 dBm | | |
| M4 | | 1 | 2.4997 GHz | -52.72 dBm | | |

Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



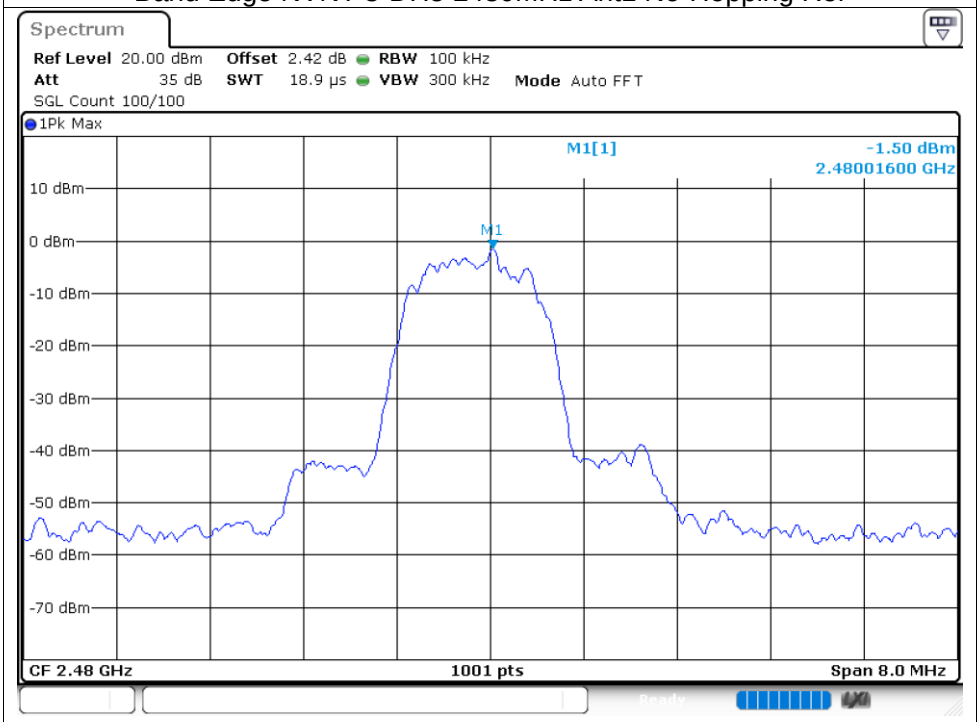

Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission



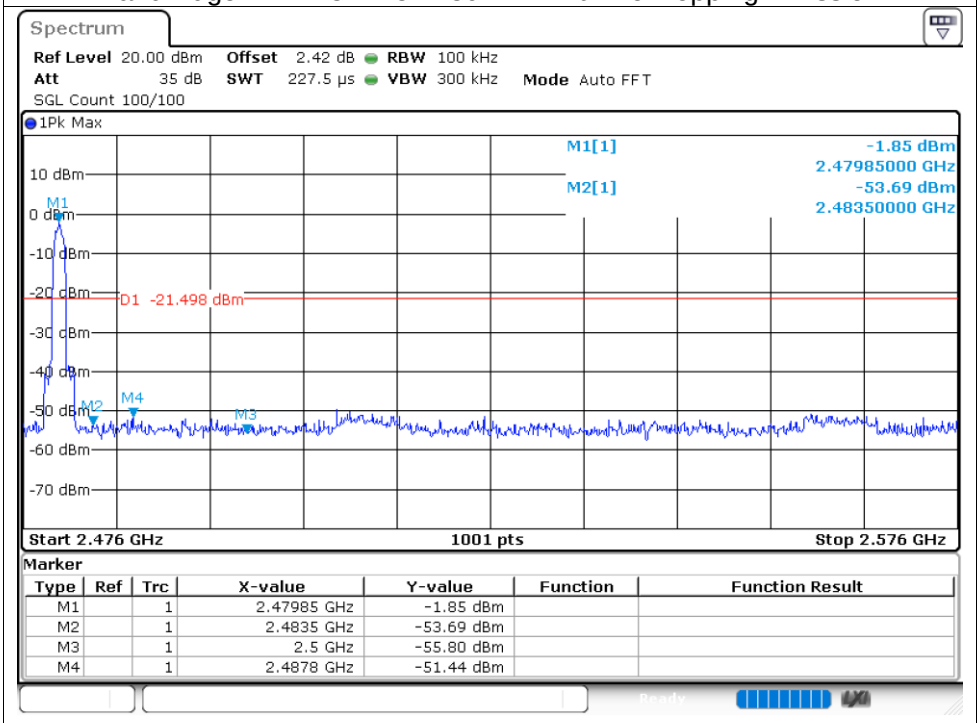

Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 2.40185 GHz | -1.25 dBm | | |
| M2 | | 1 | 2.4 GHz | -55.18 dBm | | |
| M3 | | 1 | 2.39 GHz | -56.43 dBm | | |
| M4 | | 1 | 2.3403 GHz | -49.72 dBm | | |

Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission




Marker

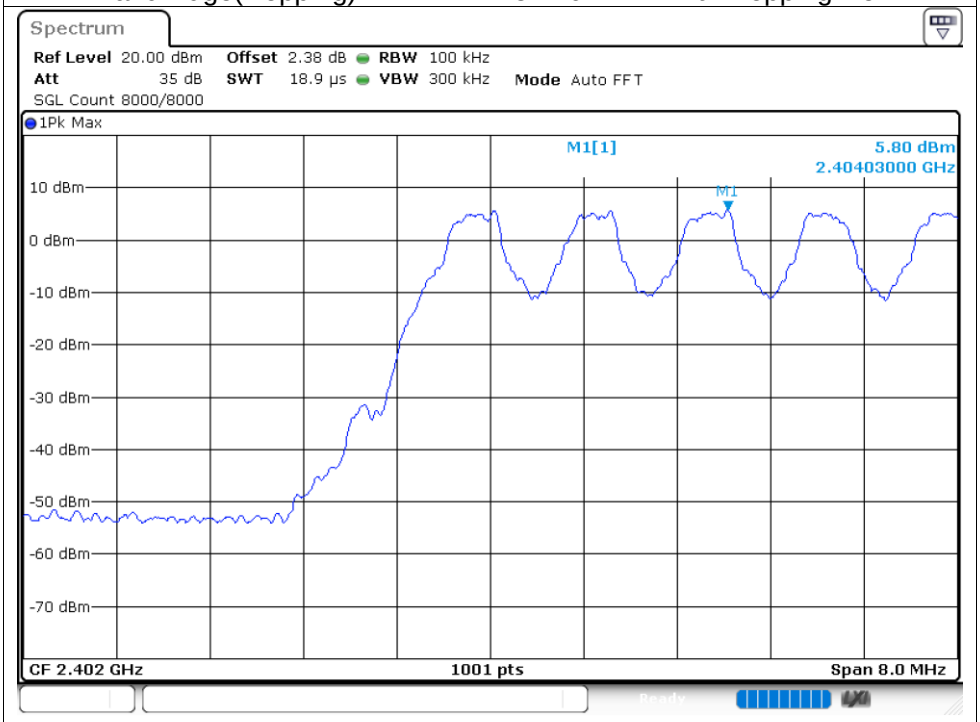
| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 2.47985 GHz | -1.85 dBm | | |
| M2 | | 1 | 2.4835 GHz | -53.69 dBm | | |
| M3 | | 1 | 2.5 GHz | -55.80 dBm | | |
| M4 | | 1 | 2.4878 GHz | -51.44 dBm | | |

## 8.8 BAND EDGE(HOPPING)

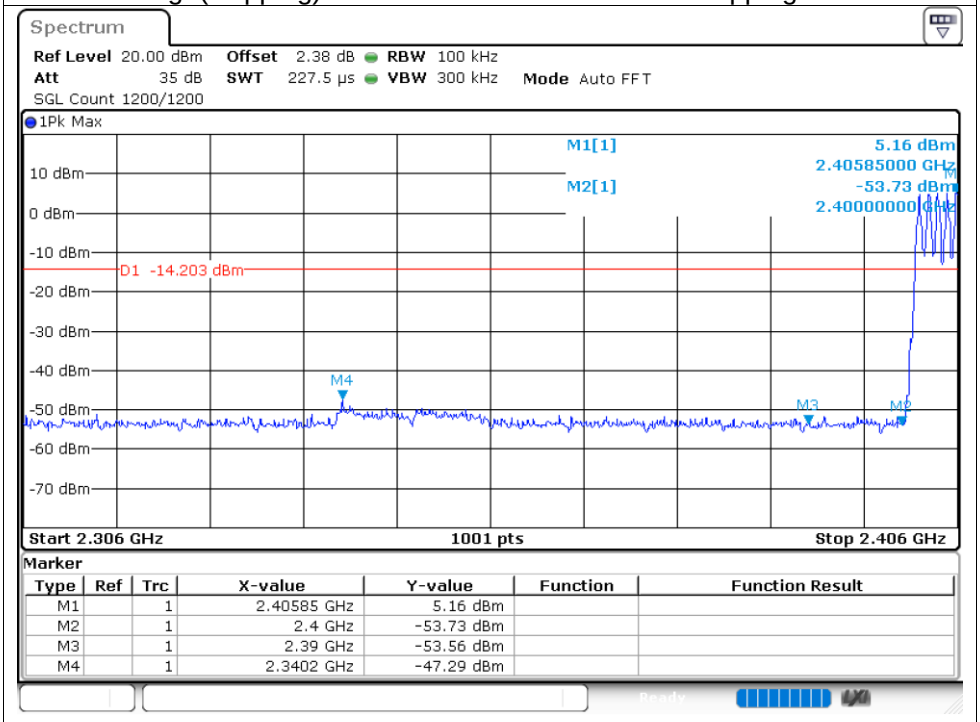
| Condition | Mode | Frequency (MHz) | Antenna | Hopping Mode | Max Value (dBc) | Limit (dBc) | Verdict |
|---|---|---|---|---|---|---|---|
| NVNT | 1-DH5 | 2402 | Ant1 | Hopping | -53.08 | -20 | Pass |
| NVNT | 1-DH5 | 2480 | Ant1 | Hopping | -56.28 | -20 | Pass |
| NVNT | 2-DH5 | 2402 | Ant1 | Hopping | -49.15 | -20 | Pass |
| NVNT | 2-DH5 | 2480 | Ant1 | Hopping | -48.73 | -20 | Pass |
| NVNT | 3-DH5 | 2402 | Ant1 | Hopping | -48.7 | -20 | Pass |
| NVNT | 3-DH5 | 2480 | Ant1 | Hopping | -49.72 | -20 | Pass |

## Test Graphs

### Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref



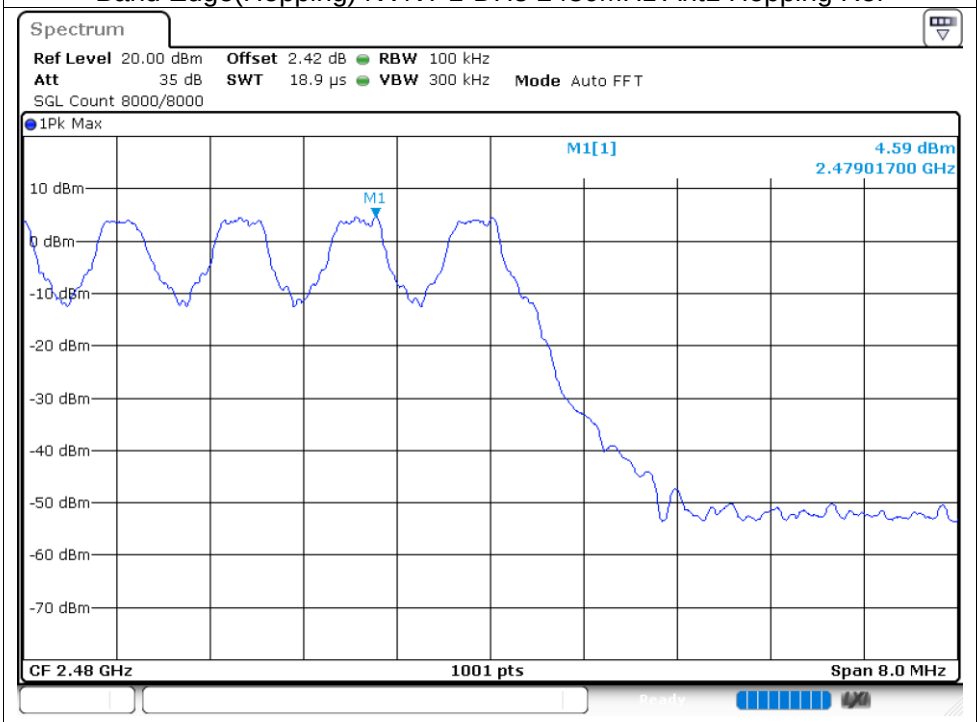

### Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



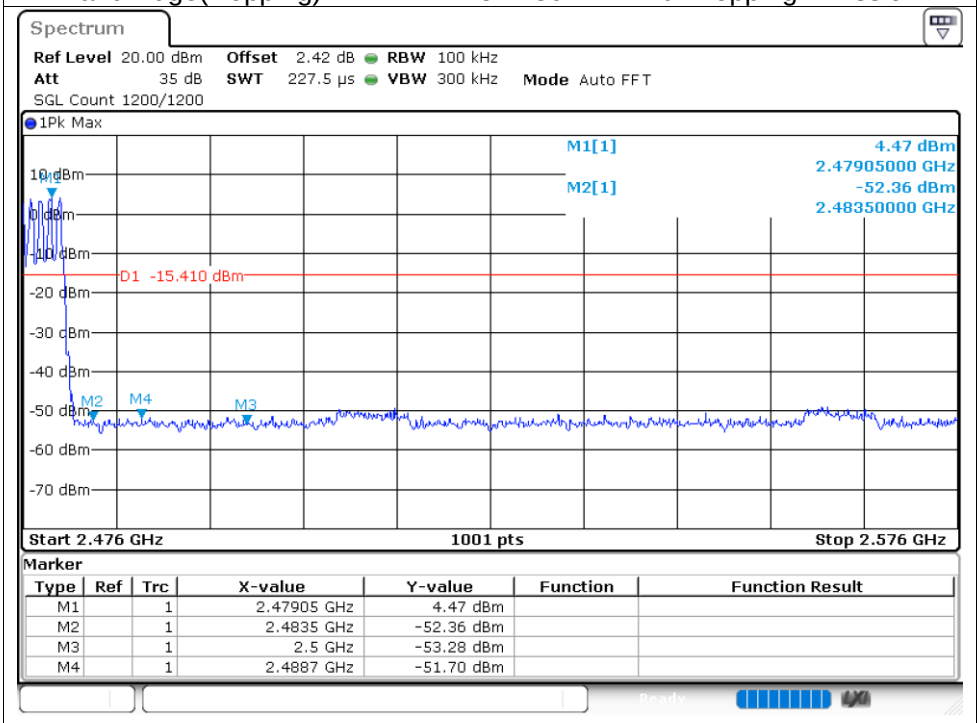

Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 2.40585 GHz | 5.16 dBm | | |
| M2 | | 1 | 2.4 GHz | -53.73 dBm | | |
| M3 | | 1 | 2.39 GHz | -53.56 dBm | | |
| M4 | | 1 | 2.3402 GHz | -47.29 dBm | | |

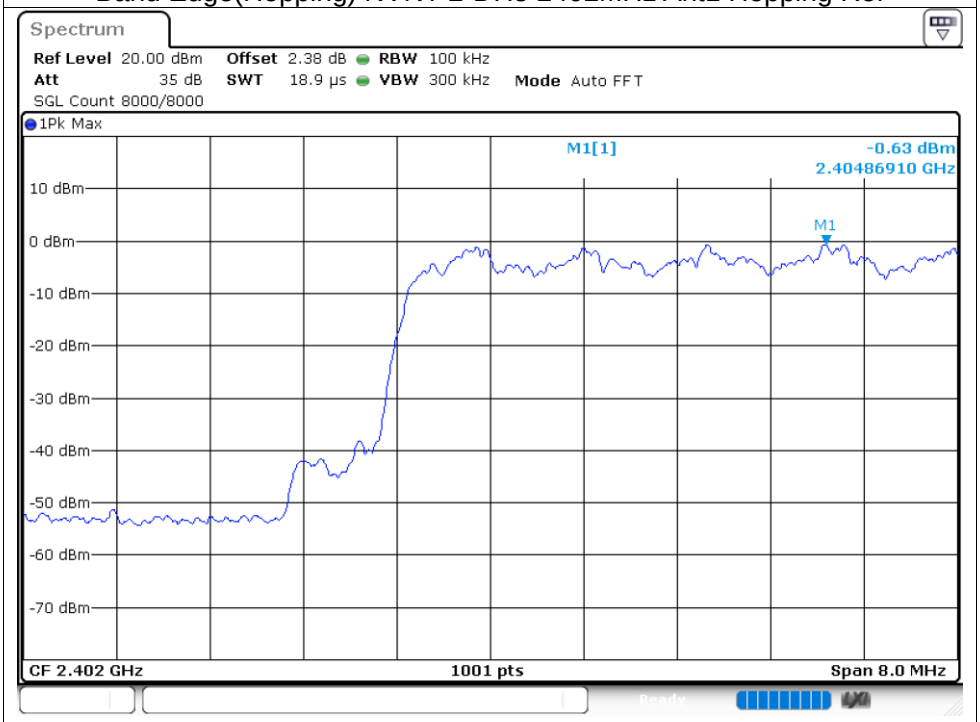
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



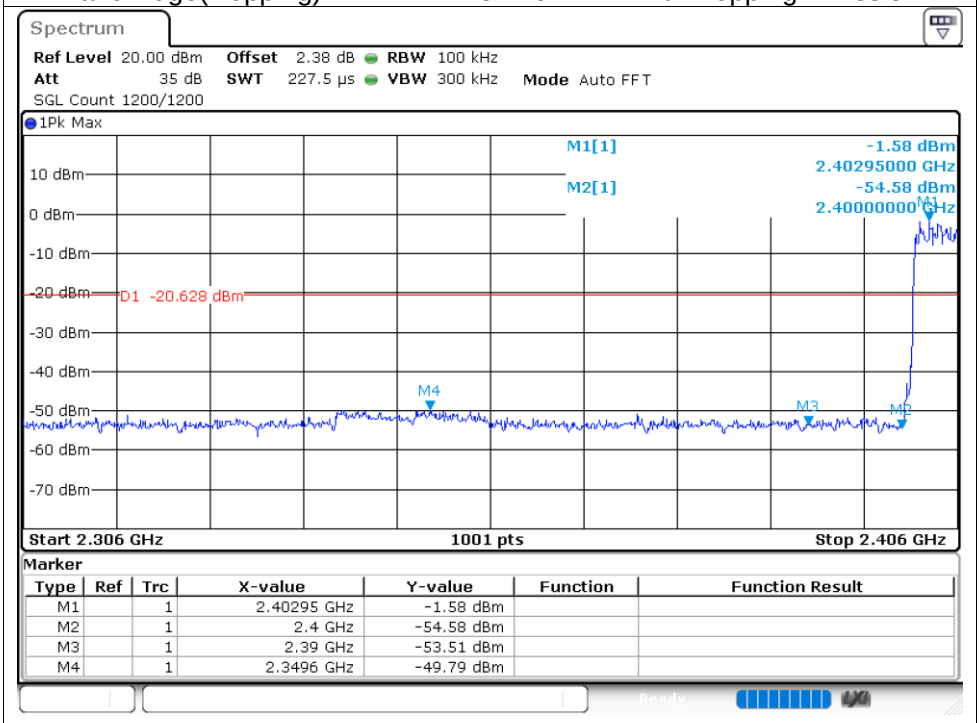

Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

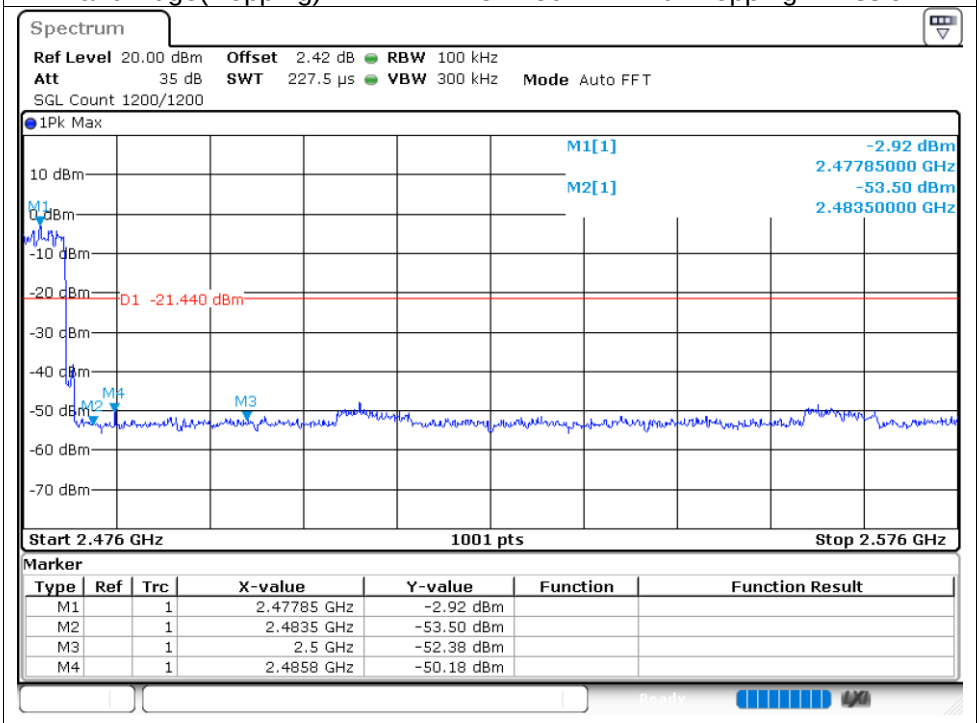



Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 2.40295 GHz | -1.58 dBm | | |
| M2 | | 1 | 2.4 GHz | -54.58 dBm | | |
| M3 | | 1 | 2.39 GHz | -53.51 dBm | | |
| M4 | | 1 | 2.3496 GHz | -49.79 dBm | | |

Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref

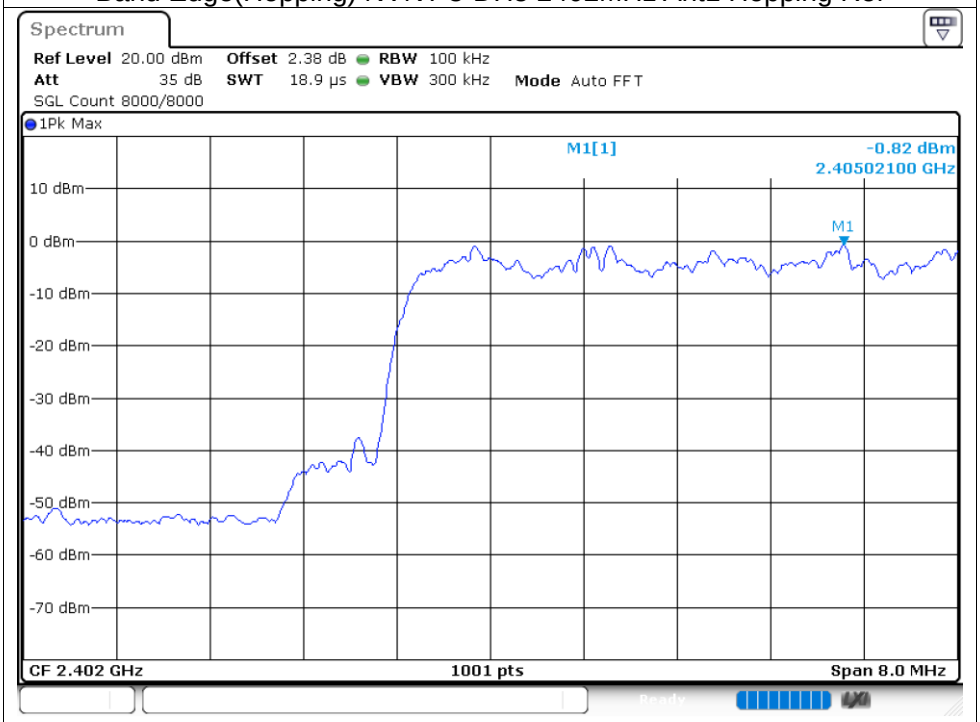
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission



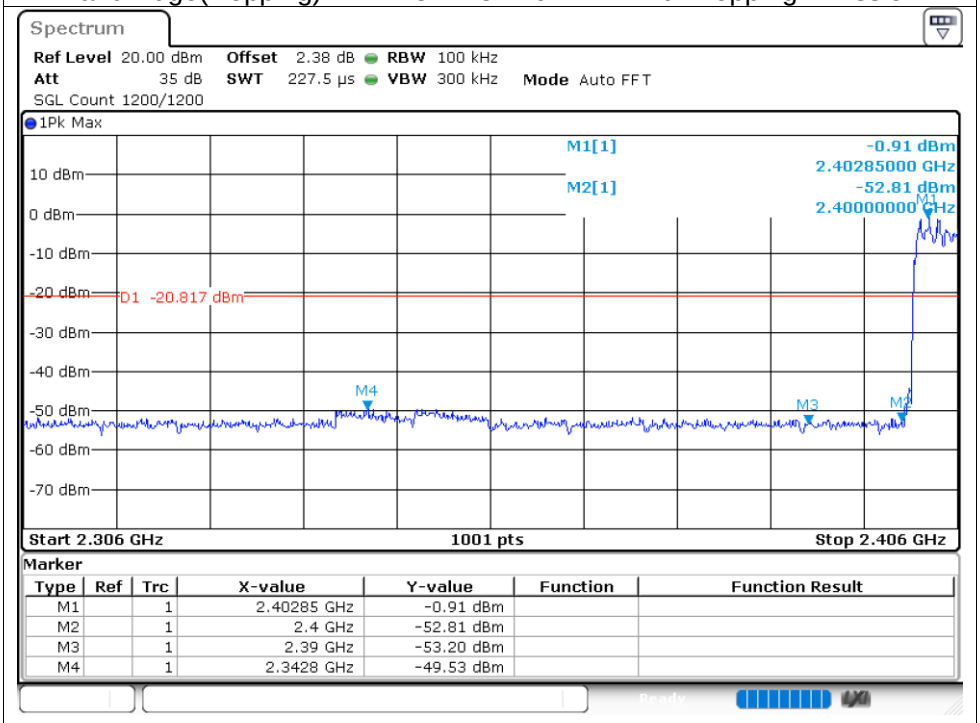

Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 2.47785 GHz | -2.92 dBm | | |
| M2 | | 1 | 2.4835 GHz | -53.50 dBm | | |
| M3 | | 1 | 2.5 GHz | -52.38 dBm | | |
| M4 | | 1 | 2.4858 GHz | -50.18 dBm | | |

Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



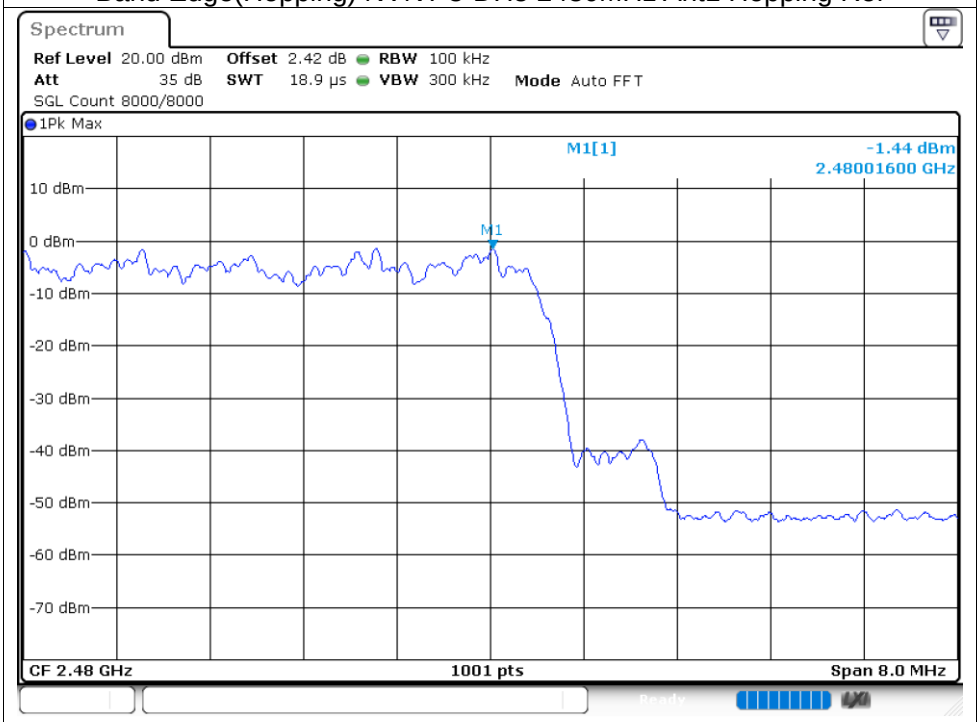

Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission



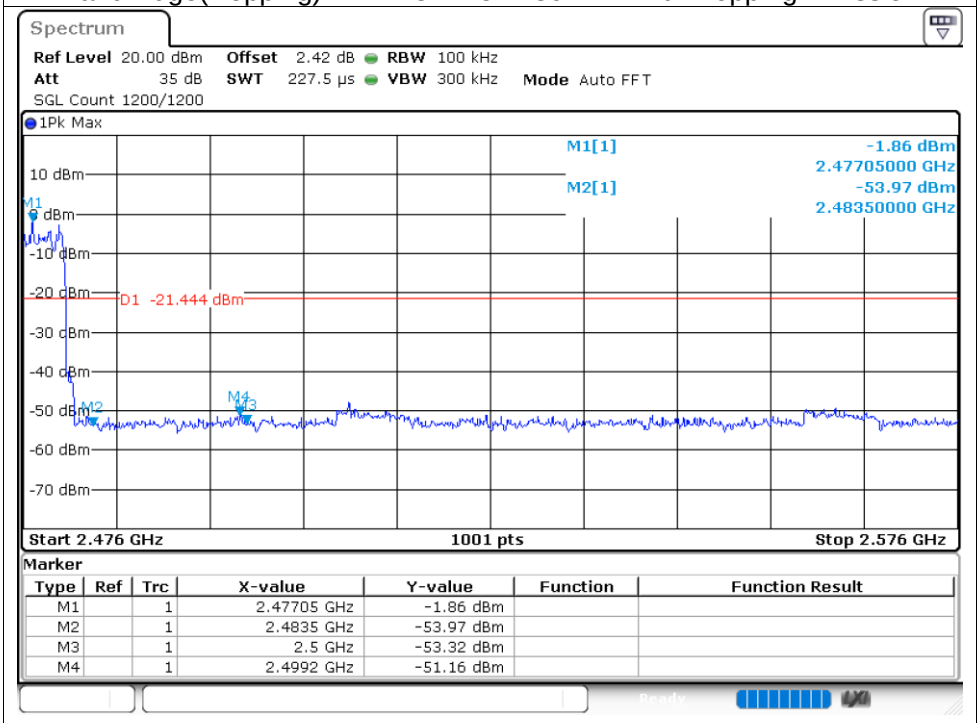

Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 2.40285 GHz | -0.91 dBm | | |
| M2 | | 1 | 2.4 GHz | -52.81 dBm | | |
| M3 | | 1 | 2.39 GHz | -53.20 dBm | | |
| M4 | | 1 | 2.3428 GHz | -49.53 dBm | | |

Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Emission




Marker

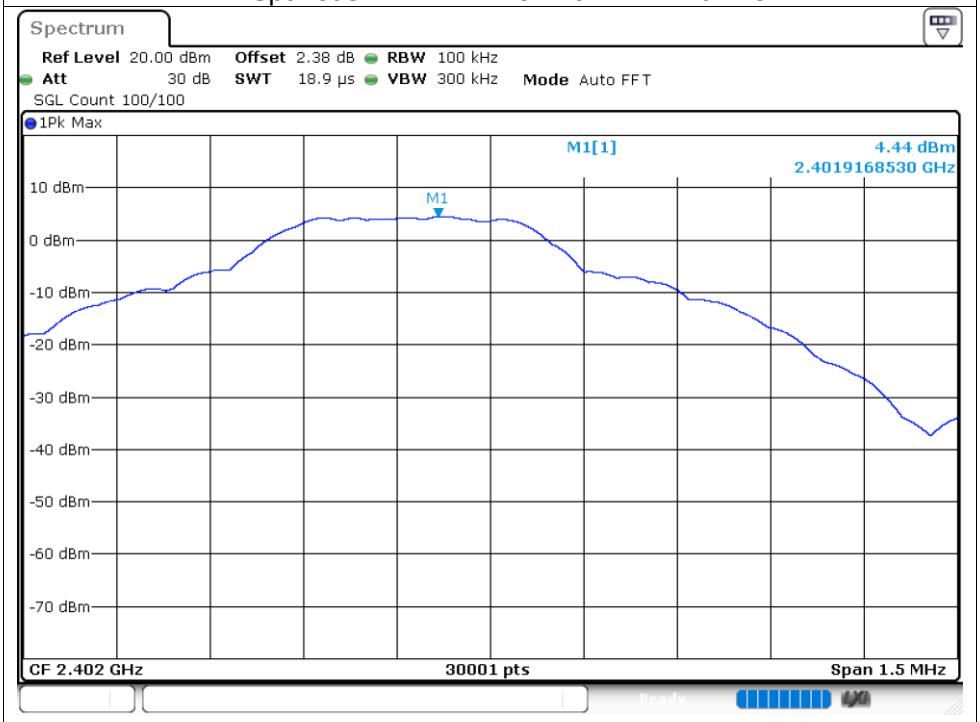
| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 2.47705 GHz | -1.86 dBm | | |
| M2 | | 1 | 2.4835 GHz | -53.97 dBm | | |
| M3 | | 1 | 2.5 GHz | -53.32 dBm | | |
| M4 | | 1 | 2.4992 GHz | -51.16 dBm | | |

## 8.9 CONDUCTED RF SPURIOUS EMISSION

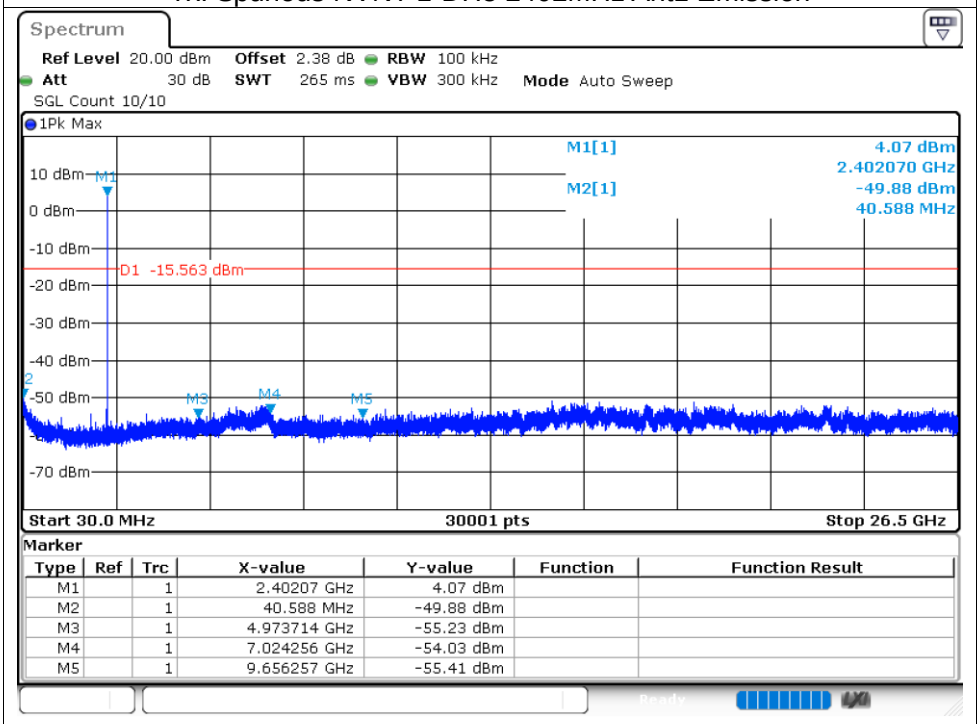
| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|---|---|---|---|---|---|---|
| NVNT | 1-DH5 | 2402 | Ant1 | -54.32 | -20 | Pass |
| NVNT | 1-DH5 | 2441 | Ant1 | -53.93 | -20 | Pass |
| NVNT | 1-DH5 | 2480 | Ant1 | -49.4 | -20 | Pass |
| NVNT | 2-DH5 | 2402 | Ant1 | -48.88 | -20 | Pass |
| NVNT | 2-DH5 | 2441 | Ant1 | -47.87 | -20 | Pass |
| NVNT | 2-DH5 | 2480 | Ant1 | -49 | -20 | Pass |
| NVNT | 3-DH5 | 2402 | Ant1 | -44.07 | -20 | Pass |
| NVNT | 3-DH5 | 2441 | Ant1 | -45.37 | -20 | Pass |
| NVNT | 3-DH5 | 2480 | Ant1 | -48.89 | -20 | Pass |

## Test Graphs

### Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



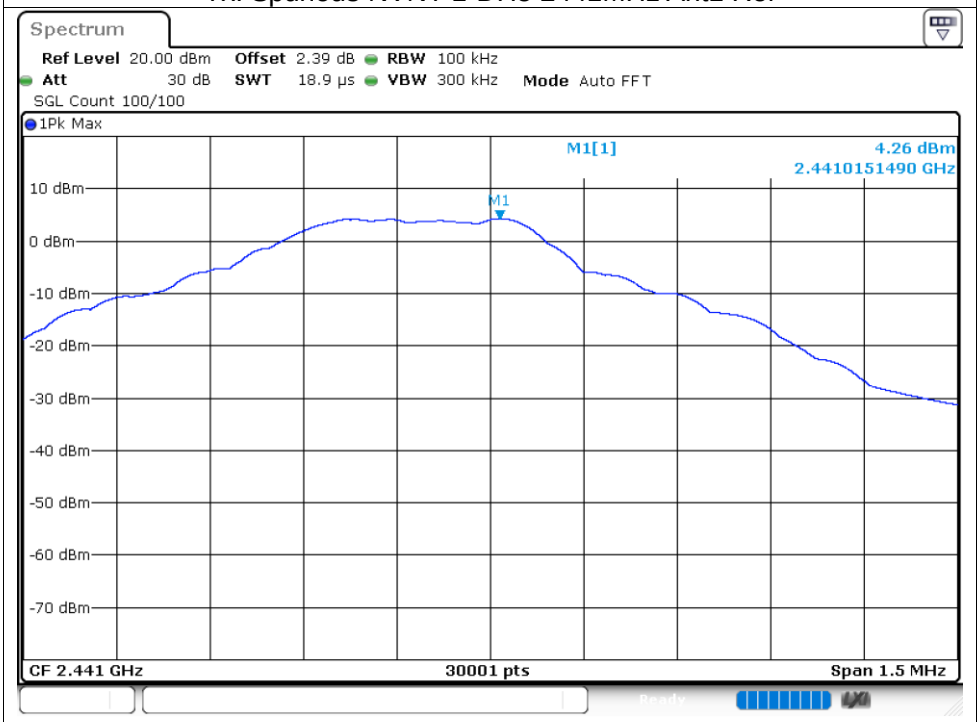

### Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



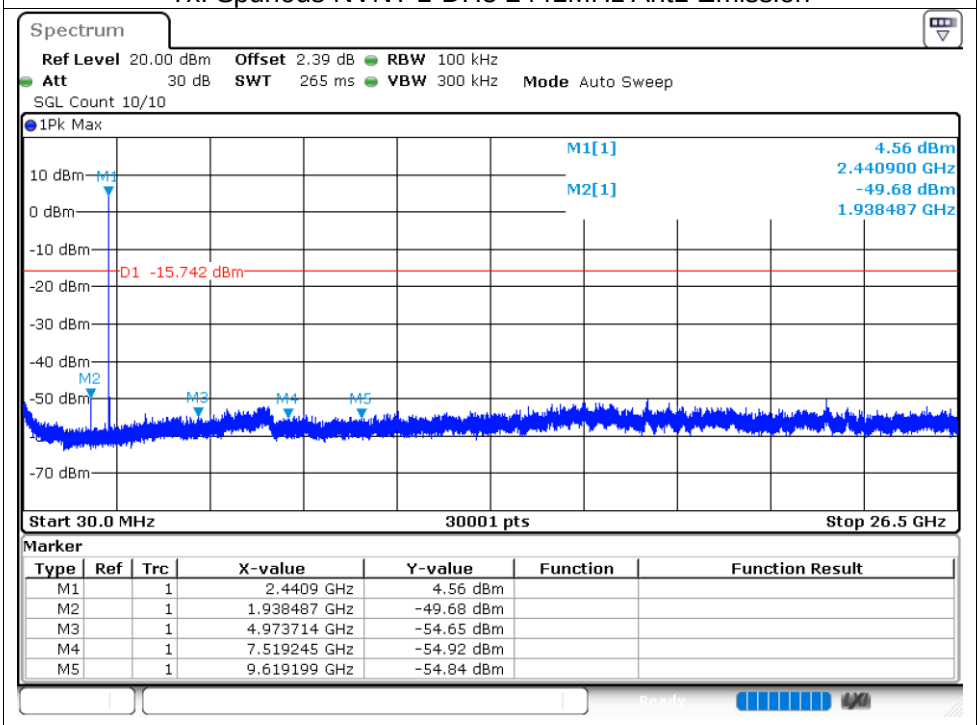

Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 2.40207 GHz | 4.07 dBm | | |
| M2 | | 1 | 40.588 MHz | -49.88 dBm | | |
| M3 | | 1 | 4.973714 GHz | -55.23 dBm | | |
| M4 | | 1 | 7.024256 GHz | -54.03 dBm | | |
| M5 | | 1 | 9.656257 GHz | -55.41 dBm | | |

Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



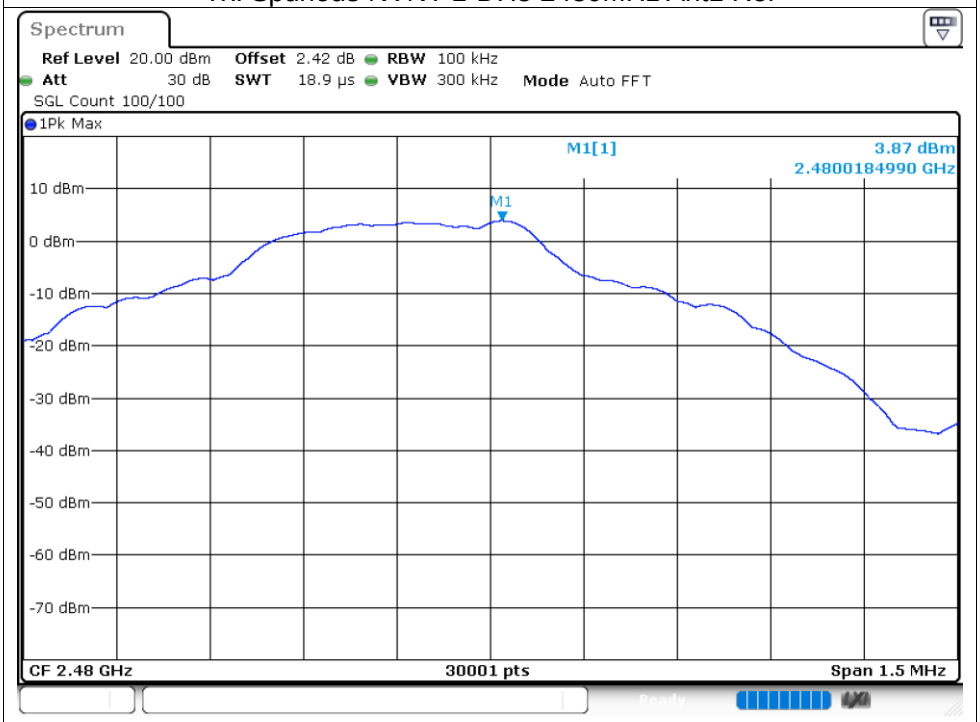

Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



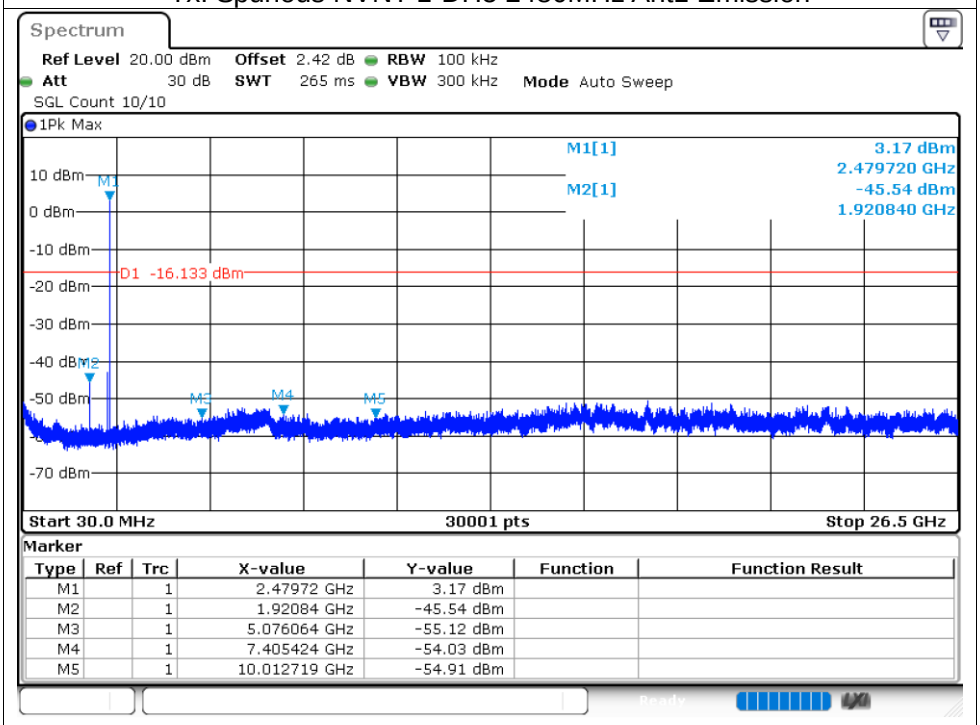

Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 2.4409 GHz | 4.56 dBm | | |
| M2 | | 1 | 1.938487 GHz | -49.68 dBm | | |
| M3 | | 1 | 4.973714 GHz | -54.65 dBm | | |
| M4 | | 1 | 7.519245 GHz | -54.92 dBm | | |
| M5 | | 1 | 9.619199 GHz | -54.84 dBm | | |

Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



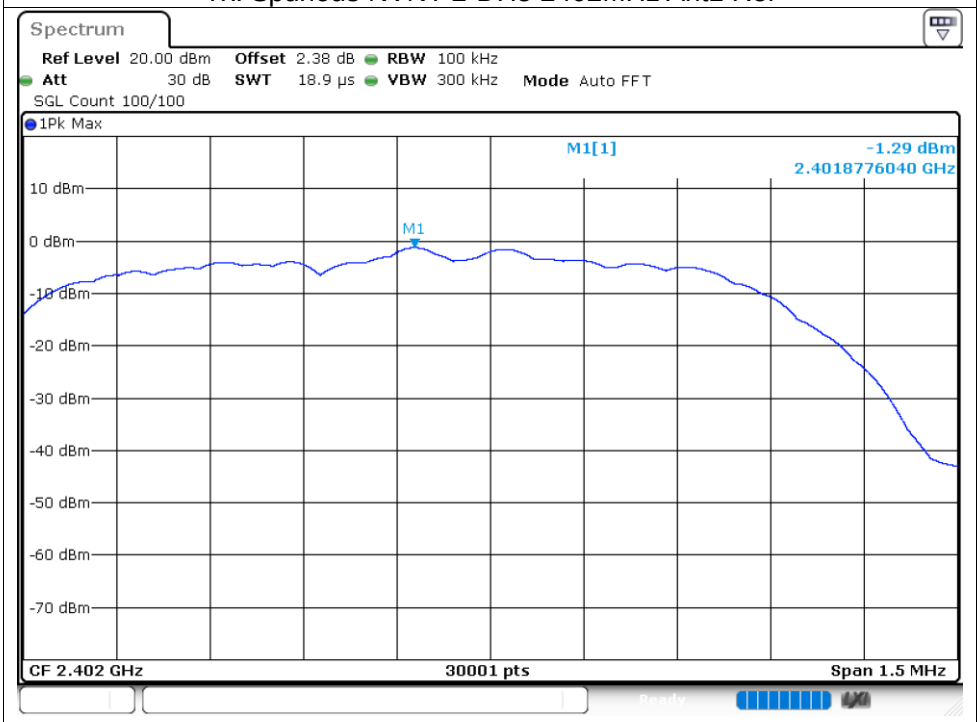

Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



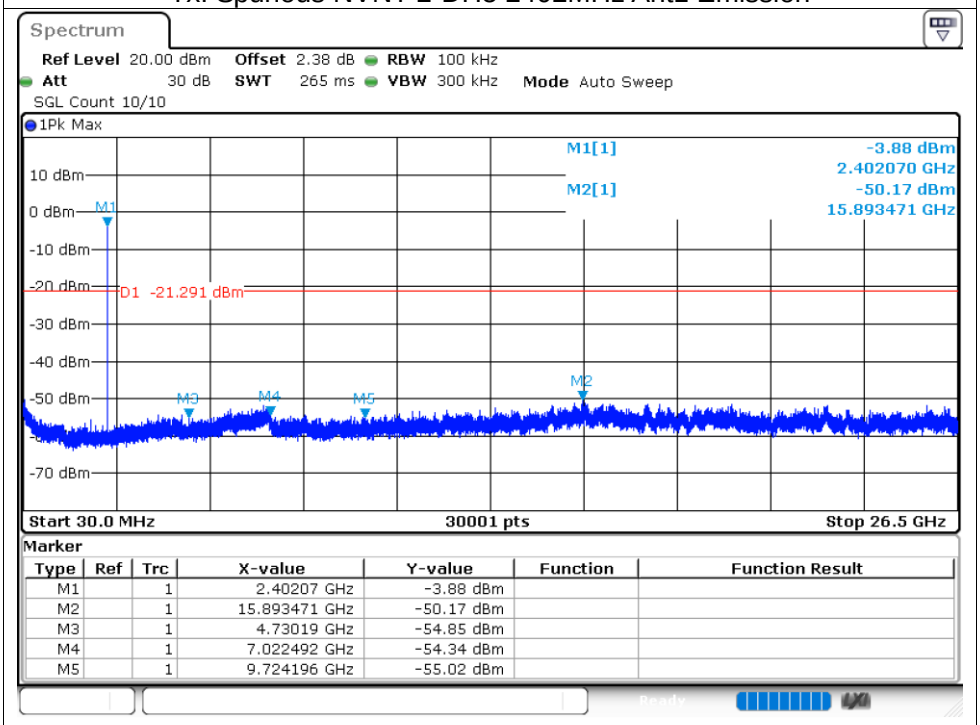

Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 2.47972 GHz | 3.17 dBm | | |
| M2 | | 1 | 1.92084 GHz | -45.54 dBm | | |
| M3 | | 1 | 5.076064 GHz | -55.12 dBm | | |
| M4 | | 1 | 7.405424 GHz | -54.03 dBm | | |
| M5 | | 1 | 10.012719 GHz | -54.91 dBm | | |

Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



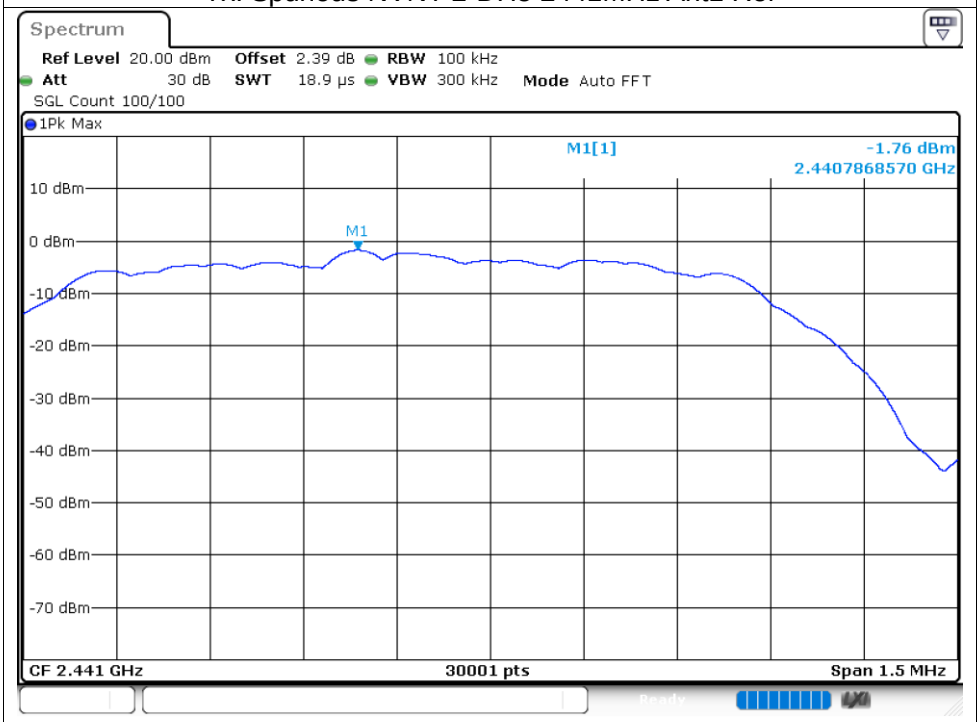

Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



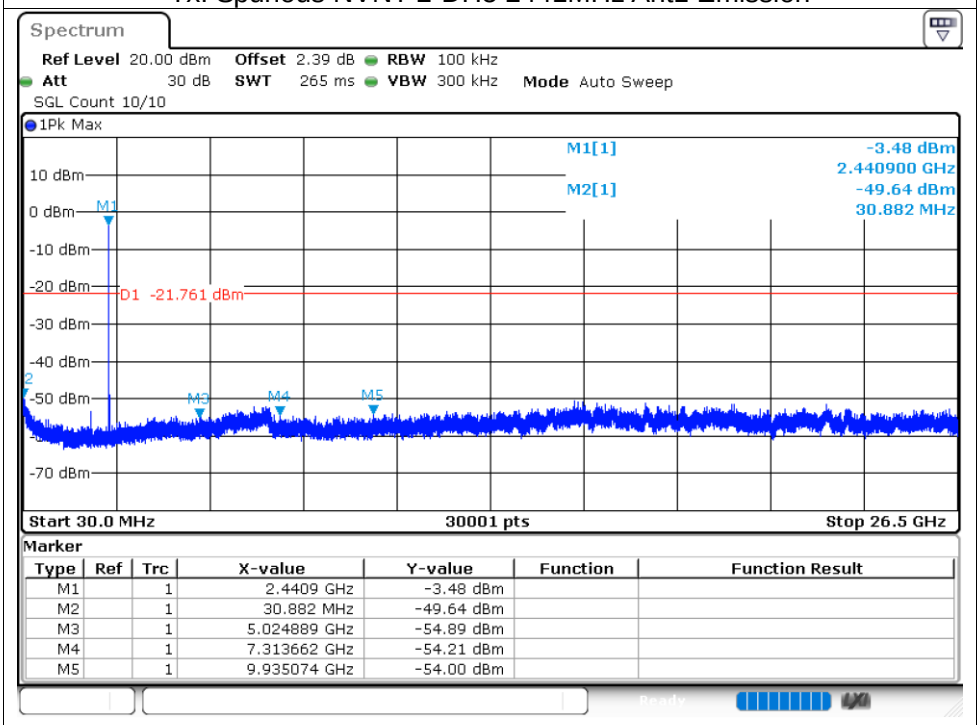

Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 2.40207 GHz | -3.88 dBm | | |
| M2 | | 1 | 15.893471 GHz | -50.17 dBm | | |
| M3 | | 1 | 4.73019 GHz | -54.85 dBm | | |
| M4 | | 1 | 7.022492 GHz | -54.34 dBm | | |
| M5 | | 1 | 9.724196 GHz | -55.02 dBm | | |

Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



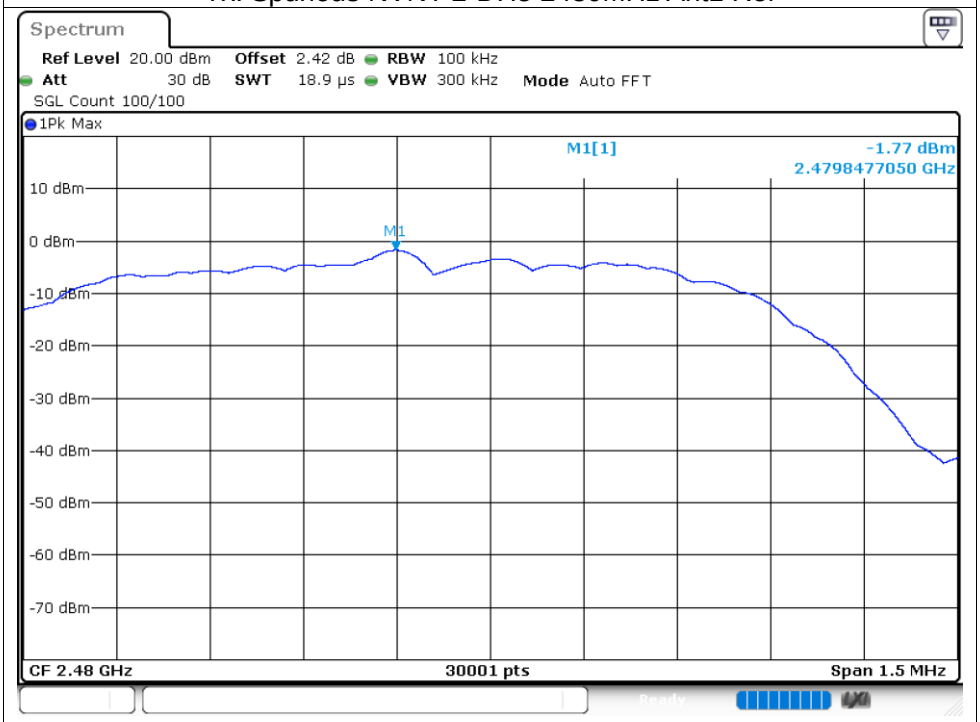

Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



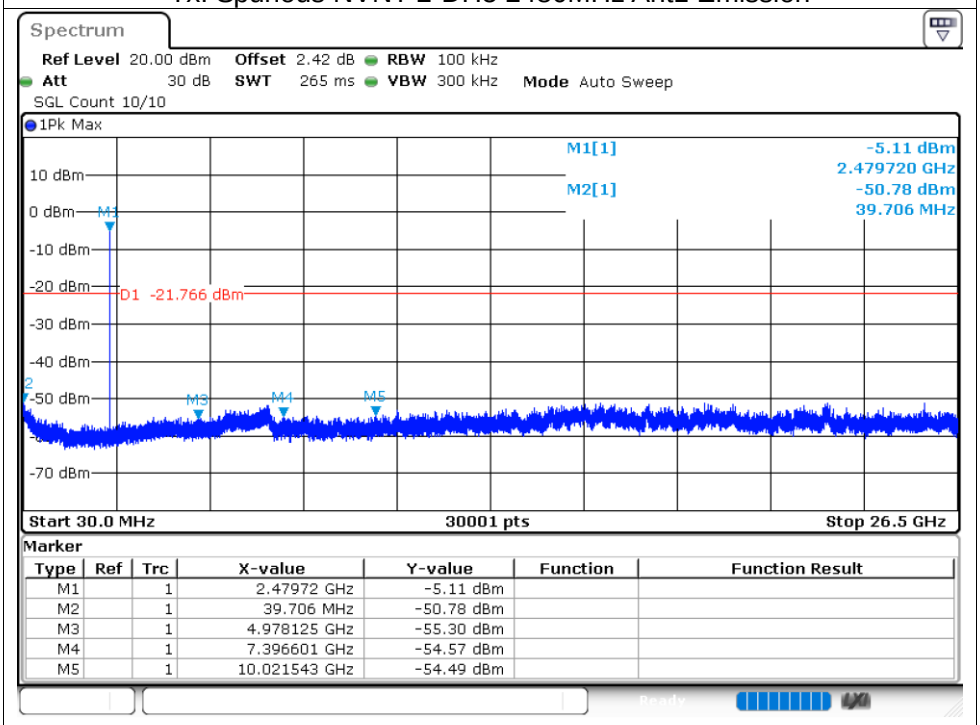

Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 2.4409 GHz | -3.48 dBm | | |
| M2 | | 1 | 30.882 MHz | -49.64 dBm | | |
| M3 | | 1 | 5.024889 GHz | -54.89 dBm | | |
| M4 | | 1 | 7.313662 GHz | -54.21 dBm | | |
| M5 | | 1 | 9.935074 GHz | -54.00 dBm | | |

Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



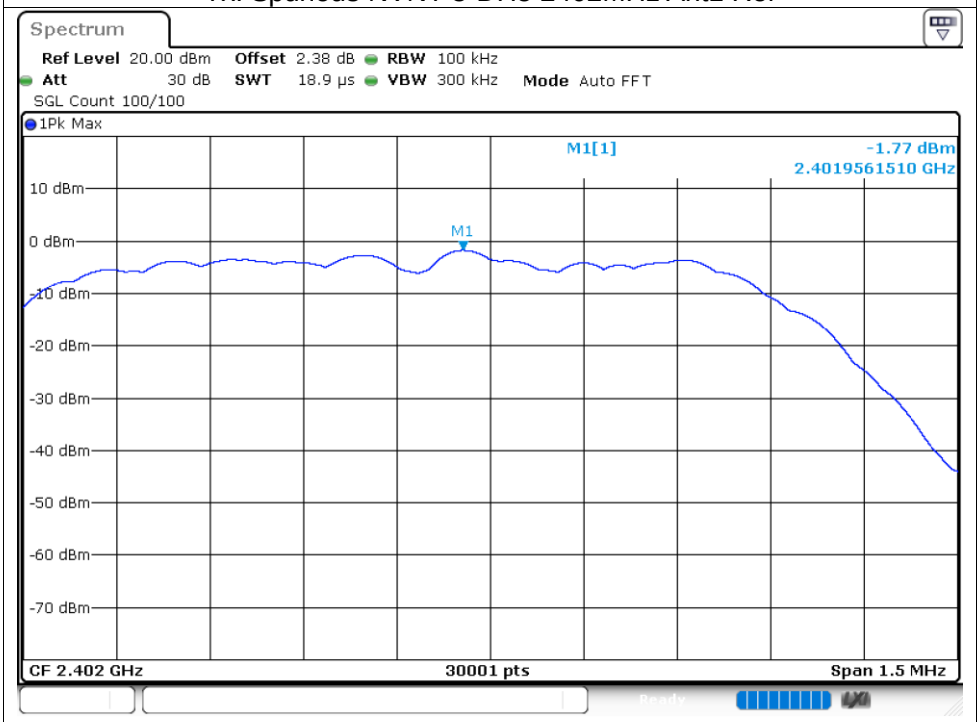

Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



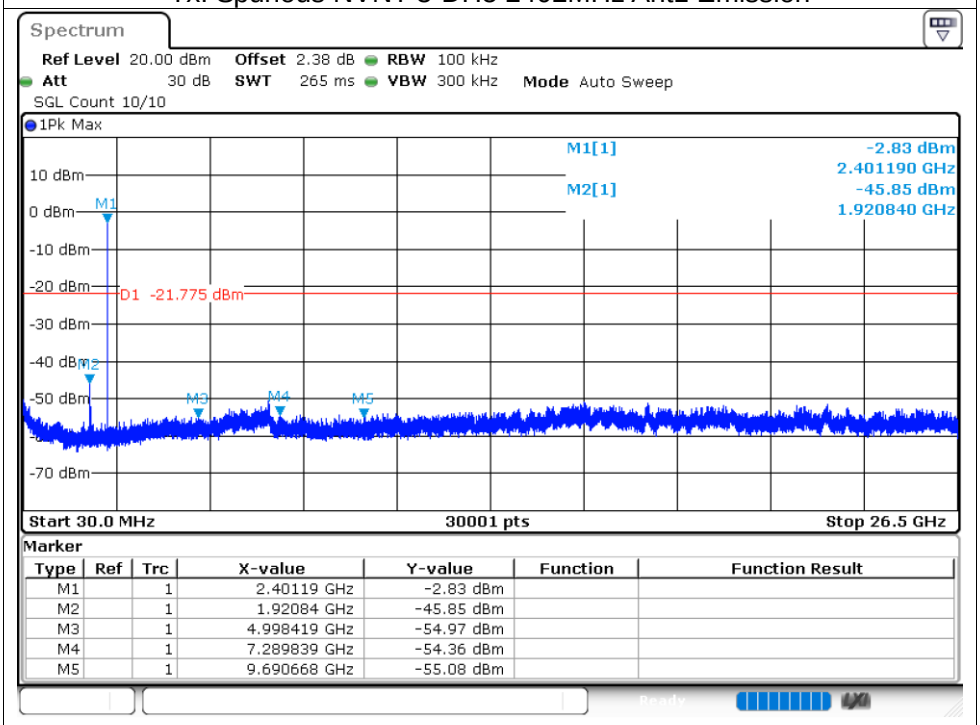

Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 2.47972 GHz | -5.11 dBm | | |
| M2 | | 1 | 39.706 MHz | -50.78 dBm | | |
| M3 | | 1 | 4.978125 GHz | -55.30 dBm | | |
| M4 | | 1 | 7.396601 GHz | -54.57 dBm | | |
| M5 | | 1 | 10.021543 GHz | -54.49 dBm | | |

Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



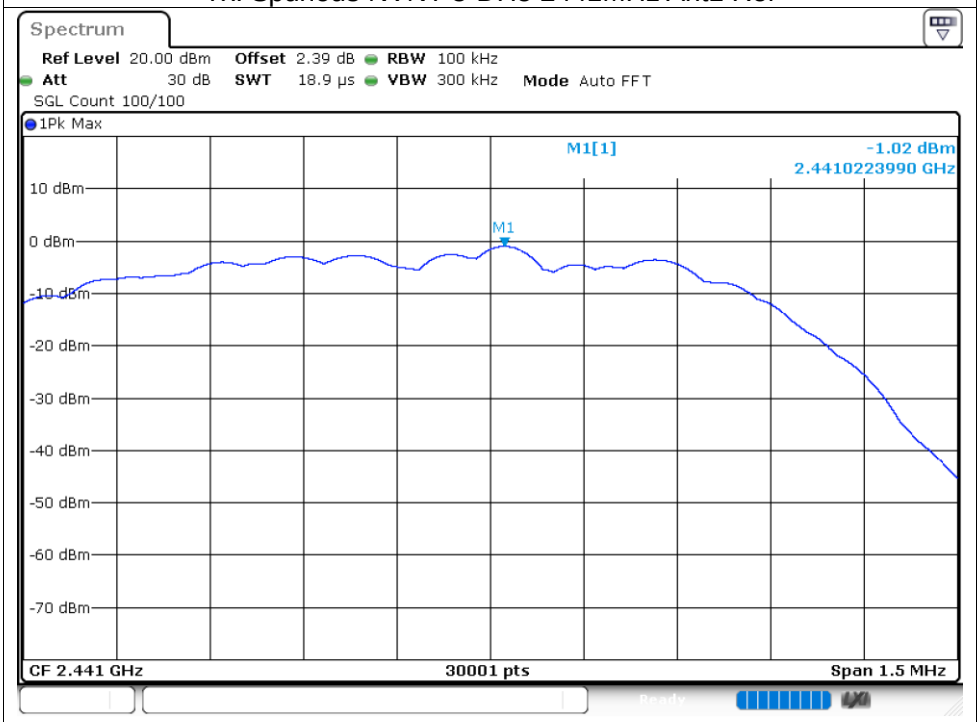

Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



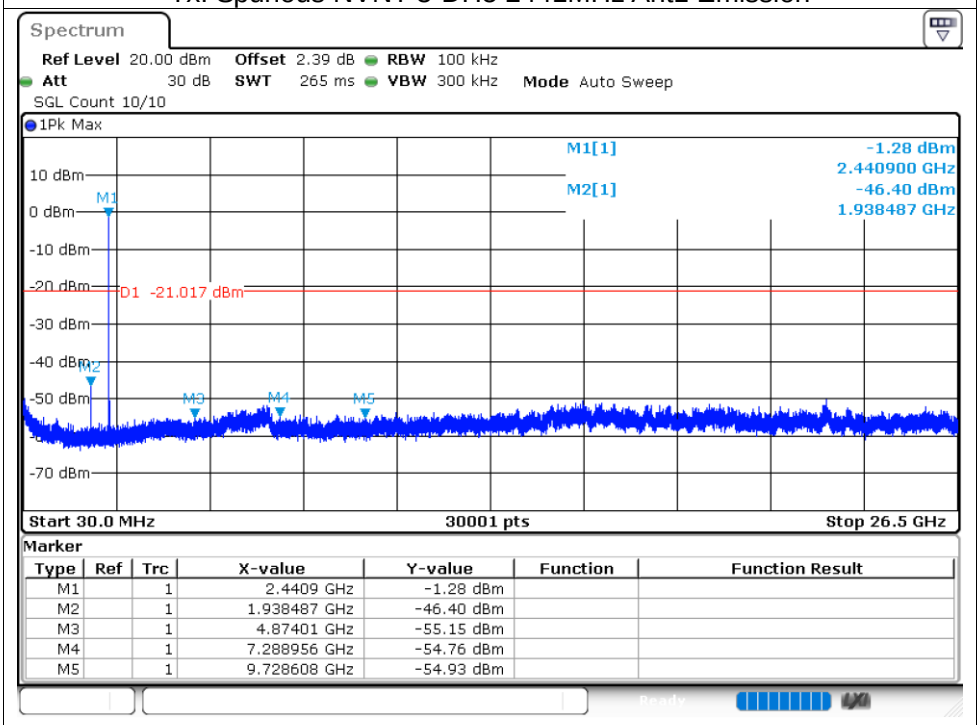

Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 2.40119 GHz | -2.83 dBm | | |
| M2 | | 1 | 1.92084 GHz | -45.85 dBm | | |
| M3 | | 1 | 4.998419 GHz | -54.97 dBm | | |
| M4 | | 1 | 7.289839 GHz | -54.36 dBm | | |
| M5 | | 1 | 9.690668 GHz | -55.08 dBm | | |

Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref

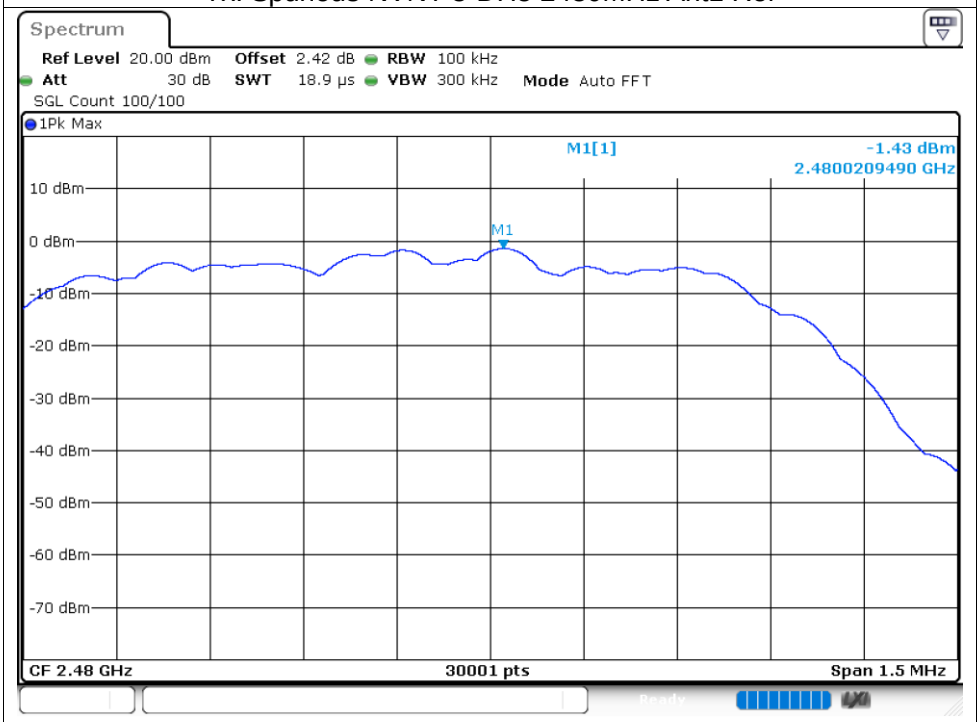



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission

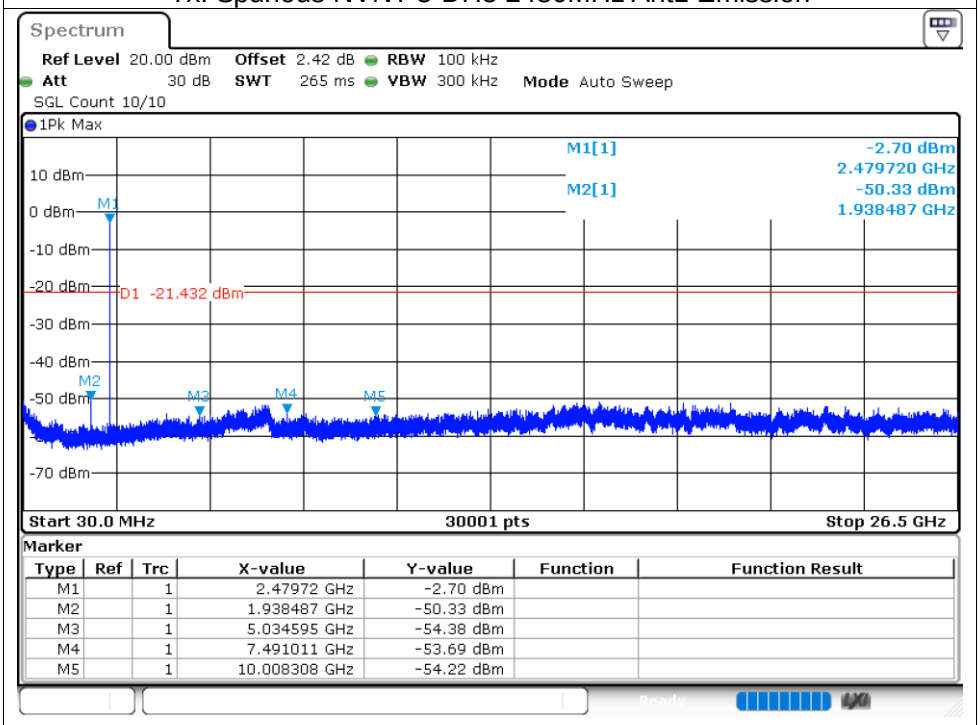



| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 2.4409 GHz | -1.28 dBm | | |
| M2 | | 1 | 1.938487 GHz | -46.40 dBm | | |
| M3 | | 1 | 4.87401 GHz | -55.15 dBm | | |
| M4 | | 1 | 7.288956 GHz | -54.76 dBm | | |
| M5 | | 1 | 9.728608 GHz | -54.93 dBm | | |

Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission




Marker

| Type | Ref | Trc | X-value | Y-value | Function | Function Result |
|---|---|---|---|---|---|---|
| M1 | | 1 | 2.47972 GHz | -2.70 dBm | | |
| M2 | | 1 | 1.938487 GHz | -50.33 dBm | | |
| M3 | | 1 | 5.034595 GHz | -54.38 dBm | | |
| M4 | | 1 | 7.491011 GHz | -53.69 dBm | | |
| M5 | | 1 | 10.008308 GHz | -54.22 dBm | | |

END OF REPORT