

## Table of Contents

|                                                   |    |
|---------------------------------------------------|----|
| 1. -20dB Bandwidth .....                          | 2  |
| 2. 99% Occupied Bandwidth .....                   | 7  |
| 3. Peak Output Power .....                        | 12 |
| 4. Spurious Emissions .....                       | 17 |
| 5. Bandedge .....                                 | 26 |
| 6. Carrier Frequencies Separation (Hopping) ..... | 39 |
| 7. Number of Hopping Channel (Hopping) .....      | 44 |
| 8. Dwell Time (Hopping) .....                     | 46 |

# FCC ID EDR

## FCC\_BT (Part15.247) Test Data

### 1. -20dB Bandwidth

| Condition | Antenna | Modulation | Frequency (MHz) | -20dB BW(MHz) | if larger than CFS |
|-----------|---------|------------|-----------------|---------------|--------------------|
| NVNT      | ANT1    | 1-DH1      | 2402.00         | 0.869         | No                 |
| NVNT      | ANT1    | 1-DH1      | 2441.00         | 0.974         | No                 |
| NVNT      | ANT1    | 1-DH1      | 2480.00         | 0.928         | No                 |
| NVNT      | ANT1    | 2-DH1      | 2402.00         | 1.275         | Yes                |
| NVNT      | ANT1    | 2-DH1      | 2441.00         | 1.277         | Yes                |
| NVNT      | ANT1    | 2-DH1      | 2480.00         | 1.271         | Yes                |
| NVNT      | ANT1    | 3-DH1      | 2402.00         | 1.224         | Yes                |
| NVNT      | ANT1    | 3-DH1      | 2441.00         | 1.226         | Yes                |
| NVNT      | ANT1    | 3-DH1      | 2480.00         | 1.255         | Yes                |

**-20dB\_Bandwidth\_NVNT\_ANT1\_1-DH1\_2402**



**-20dB\_Bandwidth\_NVNT\_ANT1\_1-DH1\_2441**



-20dB Bandwidth\_NVNT\_ANT1 1-DH1\_2480



-20dB Bandwidth\_NVNT\_ANT1 2-DH1\_2402



**-20dB Bandwidth\_NVNT\_ANT1\_2-DH1\_2441**



**-20dB Bandwidth\_NVNT\_ANT1\_2-DH1\_2480**



-20dB Bandwidth\_NVNT\_ANT1\_3-DH1\_2402



-20dB Bandwidth\_NVNT\_ANT1\_3-DH1\_2441



**-20dB Bandwidth NVNT\_ANT1 3-DH1 2480**



2. 99% Occupied Bandwidth

| Condition | Antenna | Modulation | Frequency (MHz) | 99% BW(MHz) |
|-----------|---------|------------|-----------------|-------------|
| NVNT      | ANT1    | 1-DH1      | 2402.00         | 0.837       |
| NVNT      | ANT1    | 1-DH1      | 2441.00         | 0.853       |
| NVNT      | ANT1    | 1-DH1      | 2480.00         | 0.853       |
| NVNT      | ANT1    | 2-DH1      | 2402.00         | 1.174       |
| NVNT      | ANT1    | 2-DH1      | 2441.00         | 1.176       |
| NVNT      | ANT1    | 2-DH1      | 2480.00         | 1.175       |
| NVNT      | ANT1    | 3-DH1      | 2402.00         | 1.150       |
| NVNT      | ANT1    | 3-DH1      | 2441.00         | 1.156       |
| NVNT      | ANT1    | 3-DH1      | 2480.00         | 1.157       |



### 99% Occupied Bandwidth\_NVNT\_ANT1\_1-DH1\_2480



### 99% Occupied Bandwidth\_NVNT\_ANT1\_2-DH1\_2402



### 99% Occupied Bandwidth\_NVNT\_ANT1\_2-DH1\_2441



99% Occupied Bandwidth NVNT\_ANT1\_2-DH1\_2480



99% Occupied Bandwidth NVNT\_ANT1\_3-DH1\_2402



99% Occupied Bandwidth NVNT\_ANT1\_3-DH1\_2441



99% Occupied Bandwidth NVNT\_ANT1\_3-DH1\_2480



3. Peak Output Power

| Condition | Antenna | Modulation | Frequency (MHz) | Max. Conducted Power(dBm) | Max. Conducted Power(mW) | Limit(mW) | Result |
|-----------|---------|------------|-----------------|---------------------------|--------------------------|-----------|--------|
| NVNT      | ANT1    | 1-DH1      | 2402.00         | 0.573                     | 1.14                     | 1000      | Pass   |
| NVNT      | ANT1    | 1-DH1      | 2441.00         | -0.405                    | 0.91                     | 1000      | Pass   |
| NVNT      | ANT1    | 1-DH1      | 2480.00         | -0.963                    | 0.80                     | 1000      | Pass   |
| NVNT      | ANT1    | 2-DH1      | 2402.00         | 1.392                     | 1.38                     | 125       | Pass   |
| NVNT      | ANT1    | 2-DH1      | 2441.00         | 0.248                     | 1.06                     | 125       | Pass   |
| NVNT      | ANT1    | 2-DH1      | 2480.00         | -0.128                    | 0.97                     | 125       | Pass   |
| NVNT      | ANT1    | 3-DH1      | 2402.00         | 1.852                     | 1.53                     | 125       | Pass   |
| NVNT      | ANT1    | 3-DH1      | 2441.00         | 0.728                     | 1.18                     | 125       | Pass   |
| NVNT      | ANT1    | 3-DH1      | 2480.00         | 0.447                     | 1.11                     | 125       | Pass   |



# Peak Output Power\_NVNT\_ANT1\_1-DH1\_2480



# Peak Output Power\_NVNT\_ANT1\_2-DH1\_2402



# Peak Output Power\_NVNT\_ANT1\_2-DH1\_2441



Peak\_Output\_Power\_NVNT\_ANT1\_2-DH1\_2480



Peak\_Output\_Power\_NVNT\_ANT1\_3-DH1\_2402



Peak\_Output\_Power\_NVNT\_ANT1\_3-DH1\_2441



Peak\_Output\_Power\_NVNT\_ANT1\_3-DH1\_2480



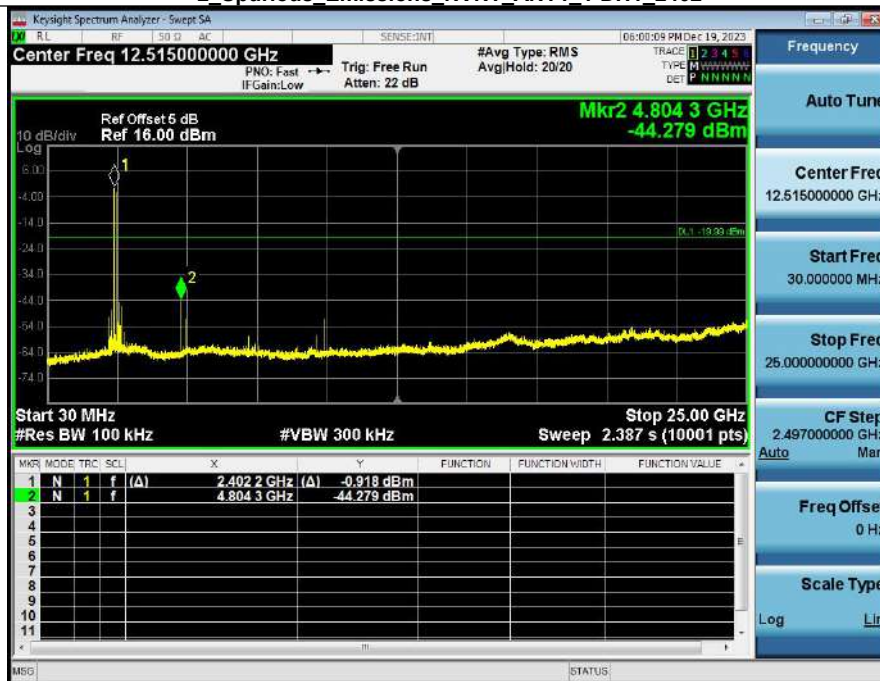
4. Spurious Emissions

| Condition | Antenna | Modulation | TX Mode | Spurious MAX.Value(dBm) | Limit   | Result |
|-----------|---------|------------|---------|-------------------------|---------|--------|
| NVNT      | ANT1    | 1-DH1      | 2402.00 | -44.279                 | -19.991 | Pass   |
| NVNT      | ANT1    | 1-DH1      | 2441.00 | -47.255                 | -20.604 | Pass   |
| NVNT      | ANT1    | 1-DH1      | 2480.00 | -46.066                 | -21.187 | Pass   |
| NVNT      | ANT1    | 2-DH1      | 2402.00 | -49.290                 | -19.586 | Pass   |
| NVNT      | ANT1    | 2-DH1      | 2441.00 | -48.414                 | -20.752 | Pass   |
| NVNT      | ANT1    | 2-DH1      | 2480.00 | -47.385                 | -21.179 | Pass   |
| NVNT      | ANT1    | 3-DH1      | 2402.00 | -49.010                 | -19.661 | Pass   |
| NVNT      | ANT1    | 3-DH1      | 2441.00 | -47.749                 | -20.841 | Pass   |
| NVNT      | ANT1    | 3-DH1      | 2480.00 | -47.231                 | -21.205 | Pass   |

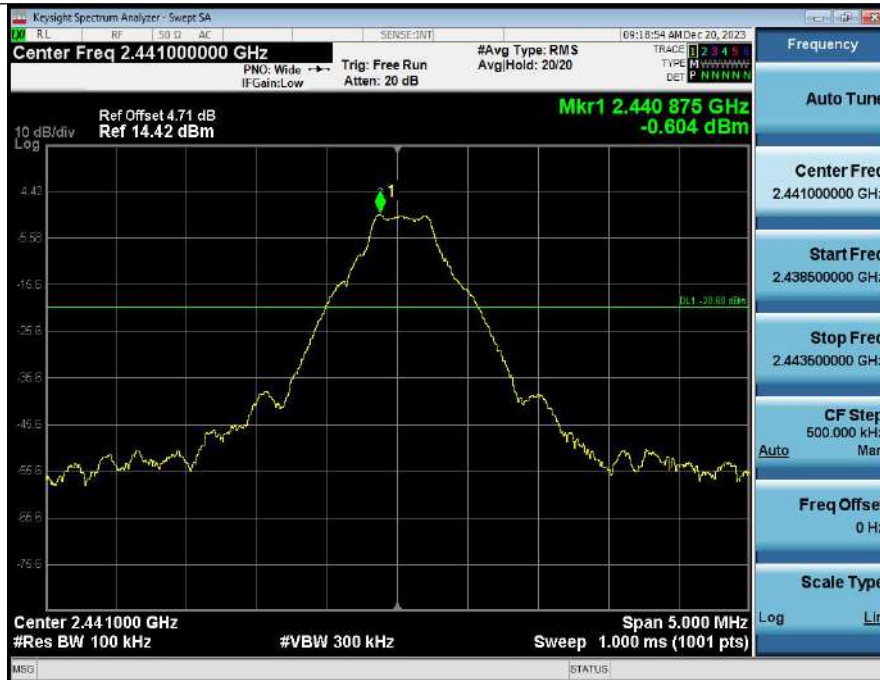
1 Reference Level NVNT ANT1 1-DH1 2402



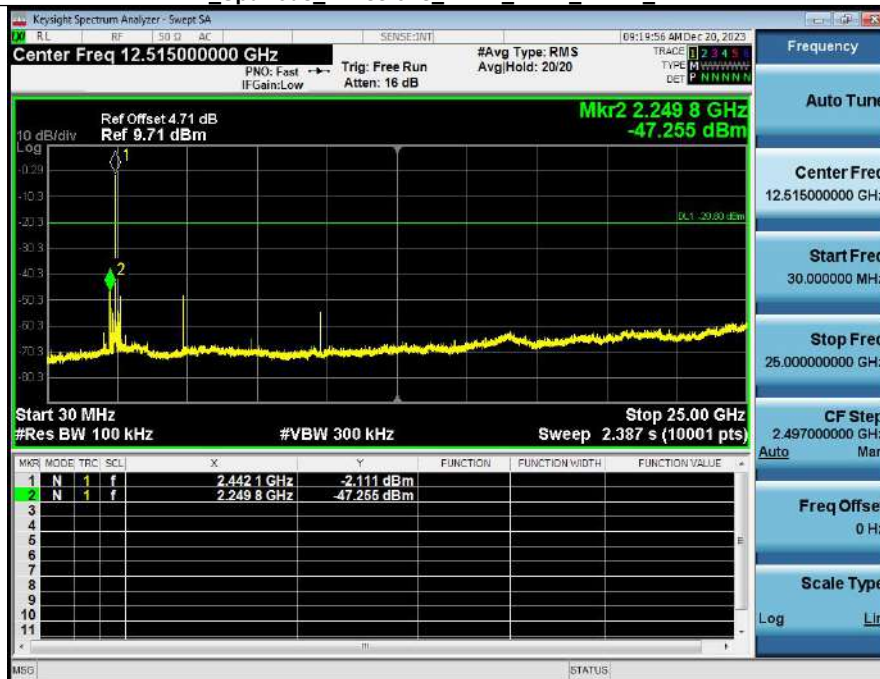
2 Spurious Emissions NVNT ANT1 1-DH1 2402



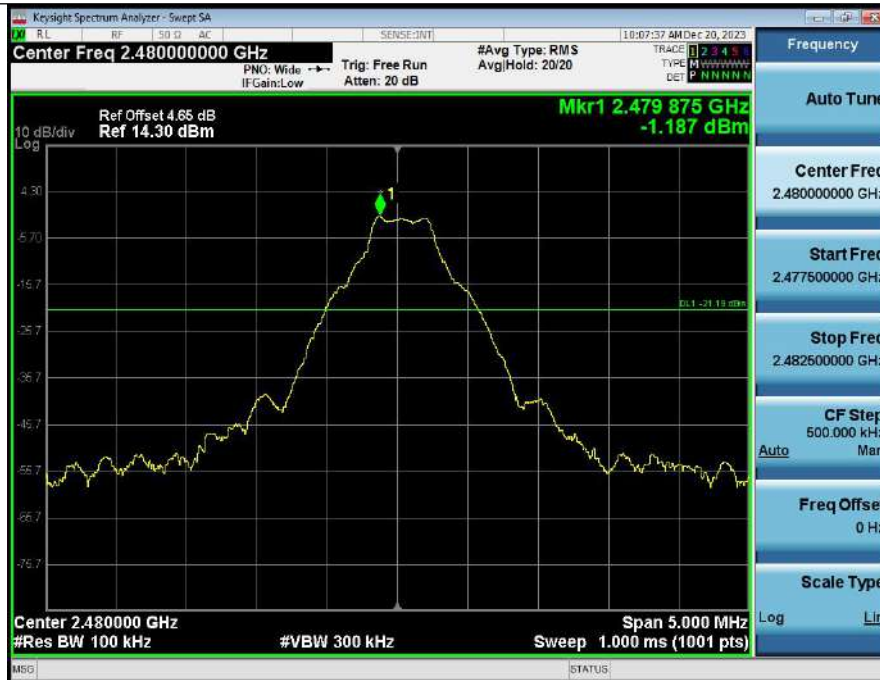
1 Reference Level NVNT ANT1 1-DH1 2441



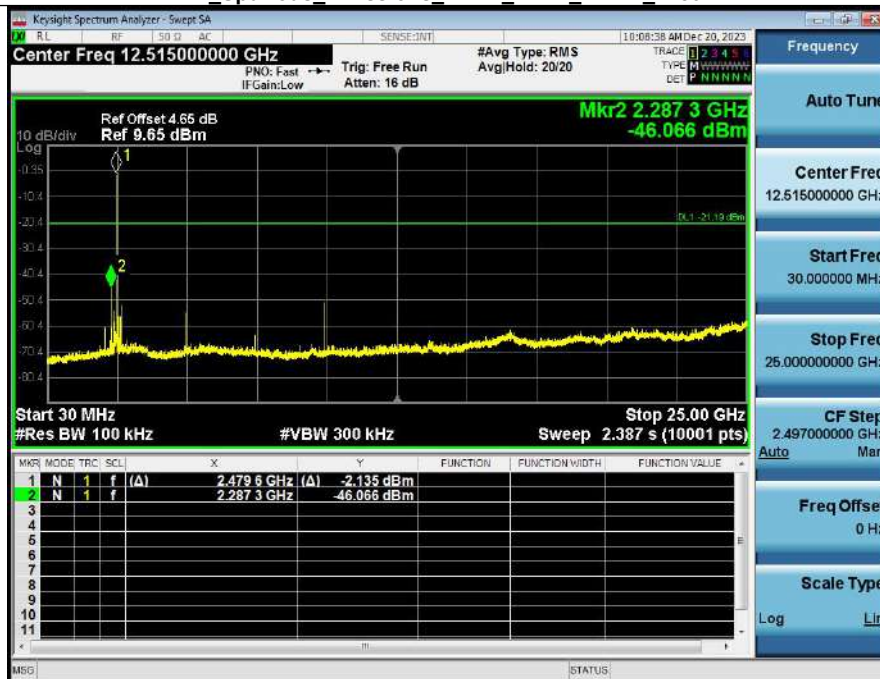
## 2\_Spurious\_Emissions\_NVNT\_ANT1\_1-DH1\_2441



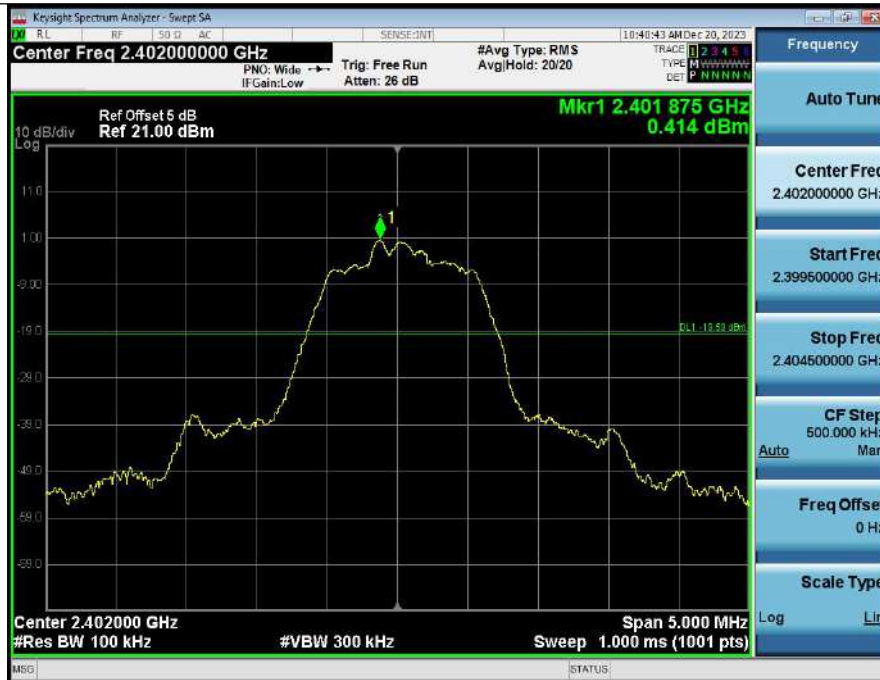
## 1\_Reference\_Level\_NVNT\_ANT1\_1-DH1\_2480



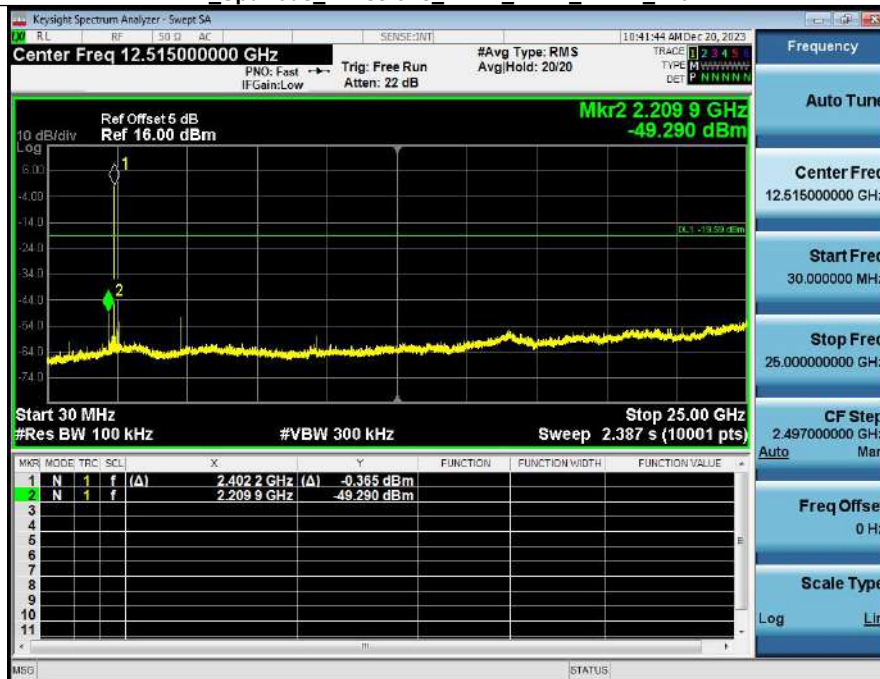
## 2\_Spurious\_Emissions\_NVNT\_ANT1\_1-DH1\_2480



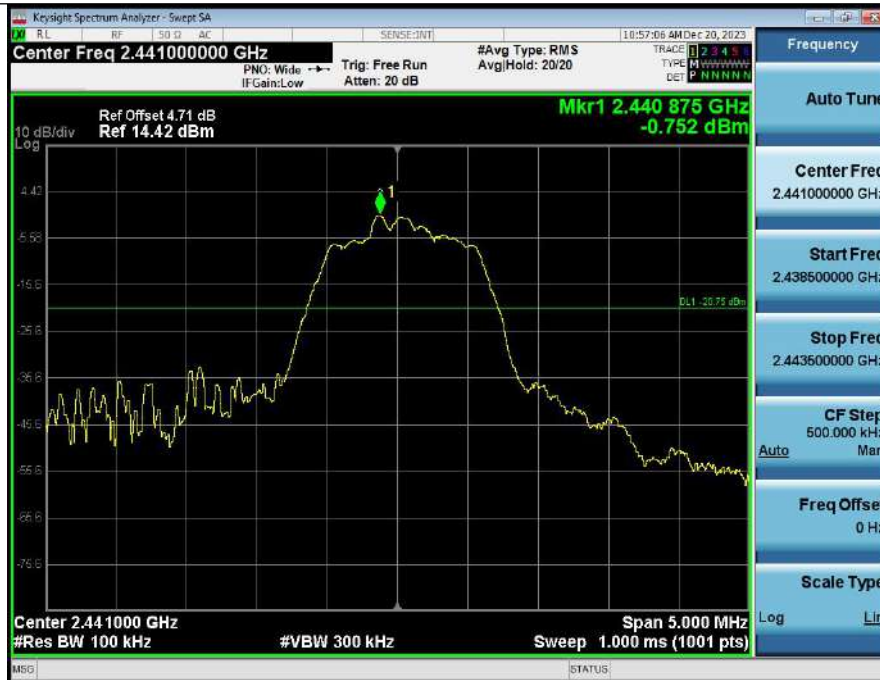
## 1\_Reference\_Level\_NVNT\_ANT1\_2-DH1\_2402



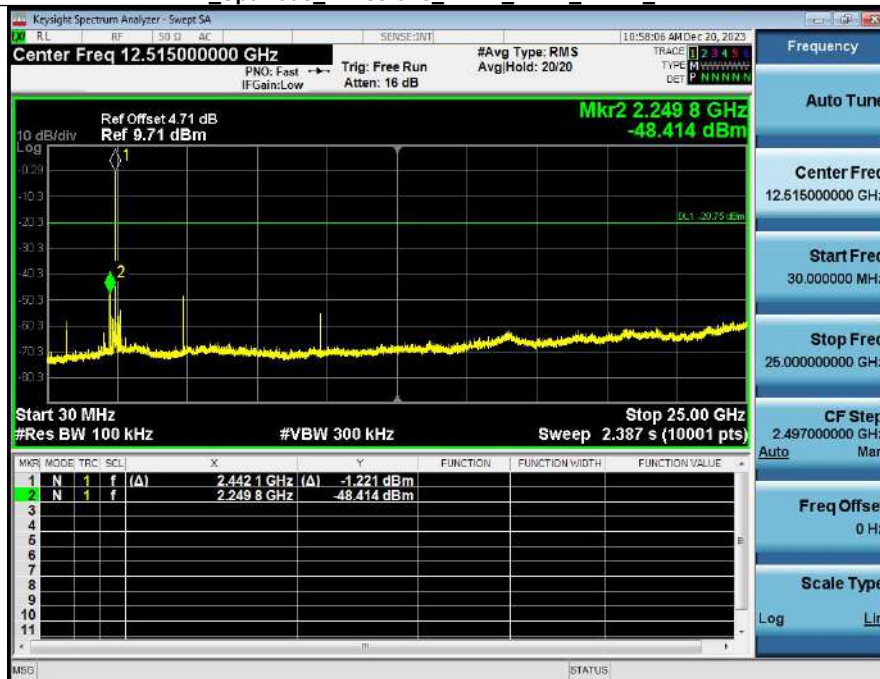
## 2\_Spurious\_Emissions\_NVNT\_ANT1\_2-DH1\_2402



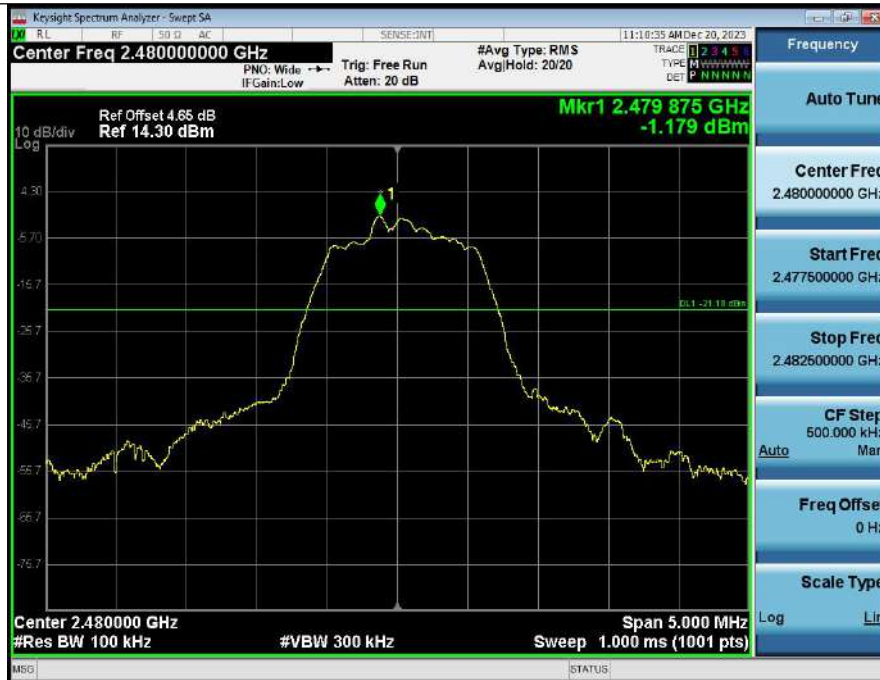
## 1\_Reference\_Level\_NVNT\_ANT1\_2-DH1\_2441



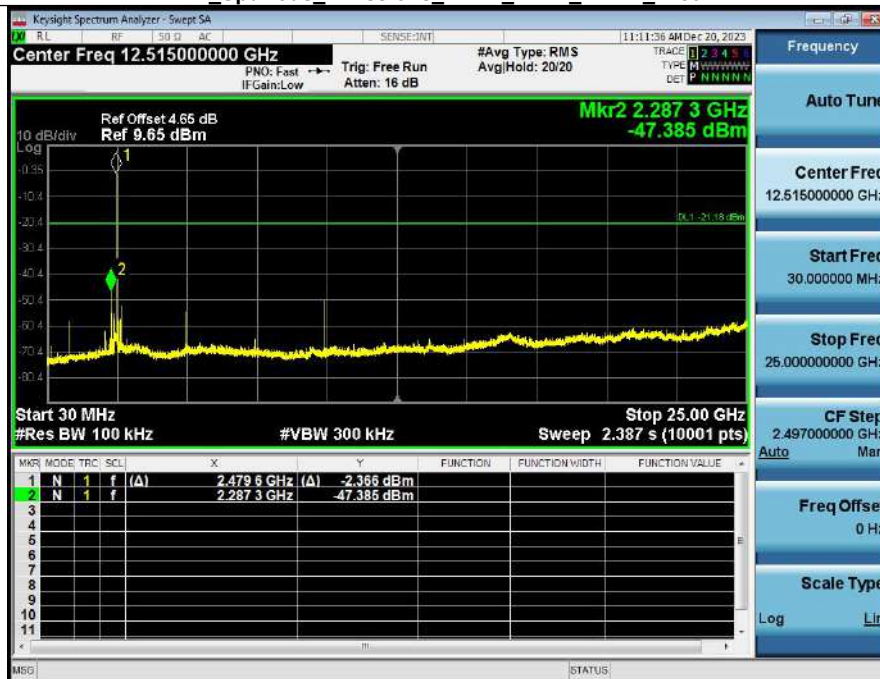
## 2\_Spurious\_Emissions\_NVNT\_ANT1\_2-DH1\_2441



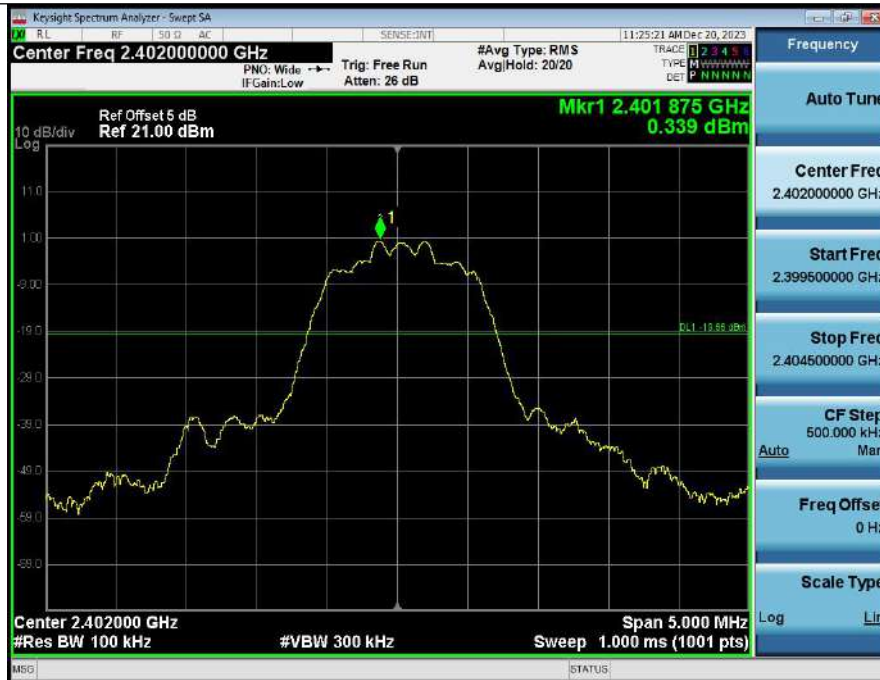
## 1\_Reference\_Level\_NVNT\_ANT1\_2-DH1\_2480



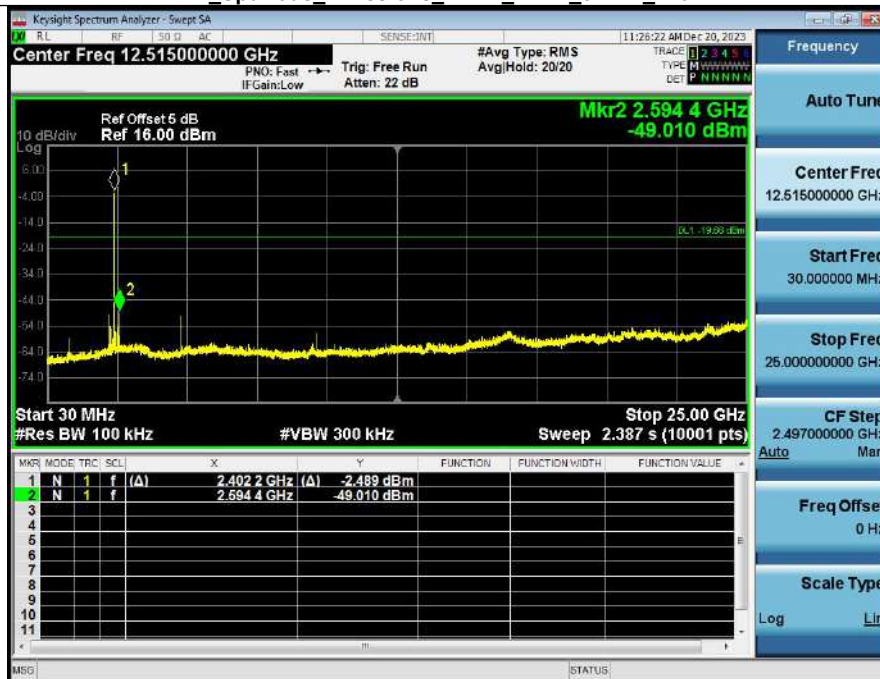
## 2\_Spurious\_Emissions\_NVNT\_ANT1\_2-DH1\_2480



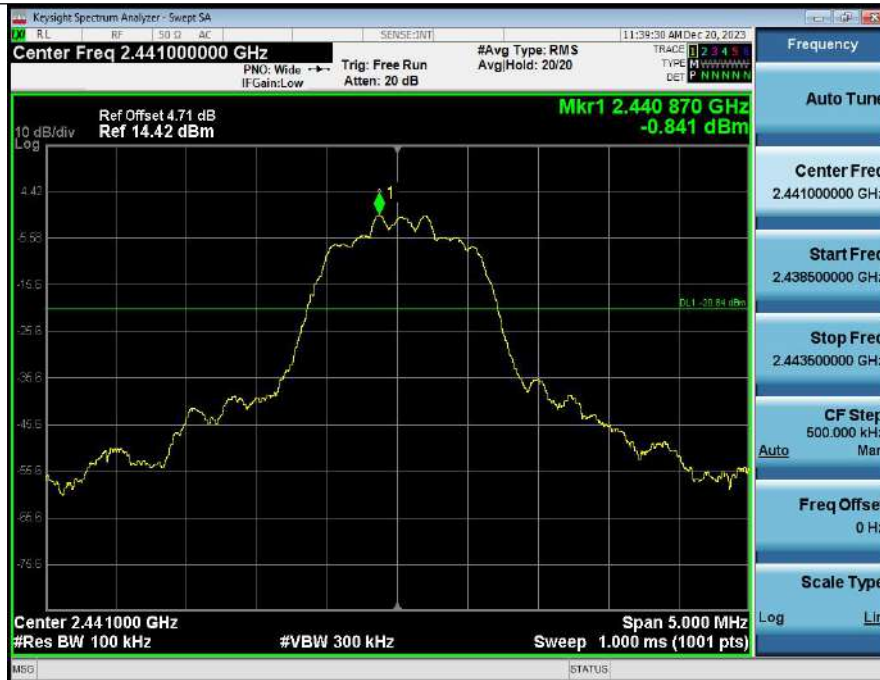
## 1\_Reference\_Level\_NVNT\_ANT1\_3-DH1\_2402



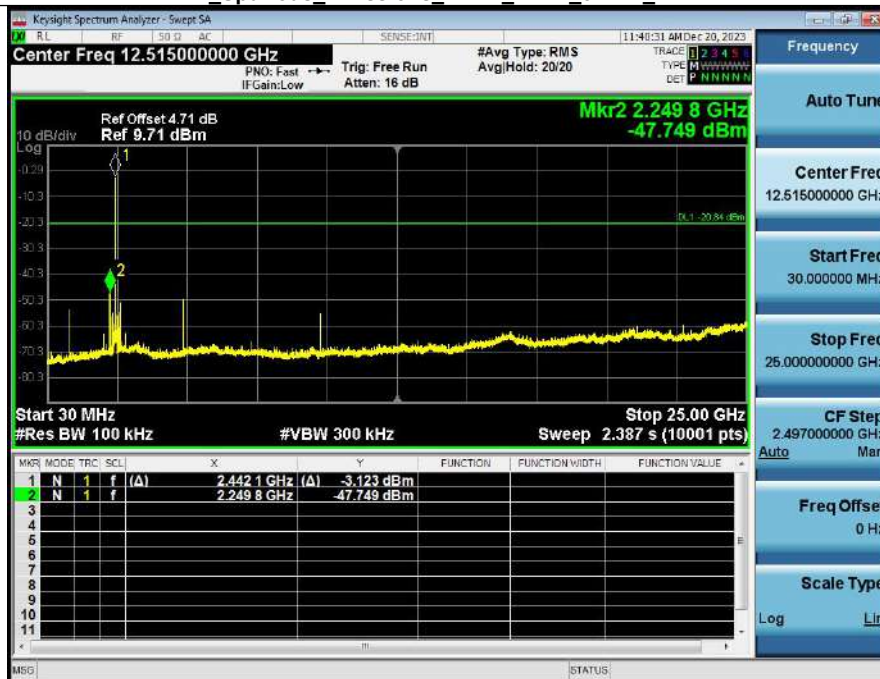
## 2\_Spurious\_Emissions\_NVNT\_ANT1\_3-DH1\_2402



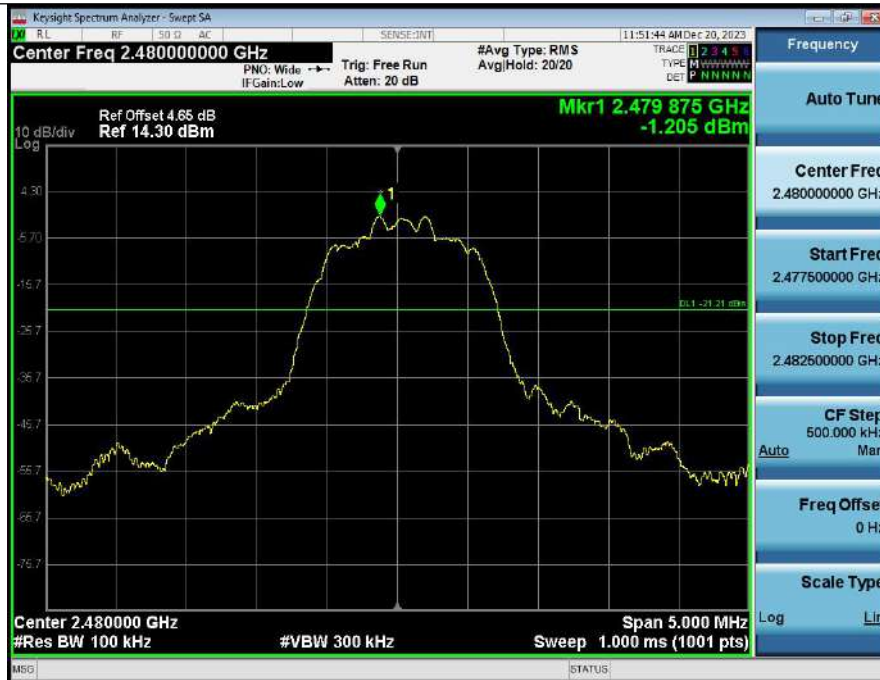
## 1\_Reference\_Level\_NVNT\_ANT1\_3-DH1\_2441



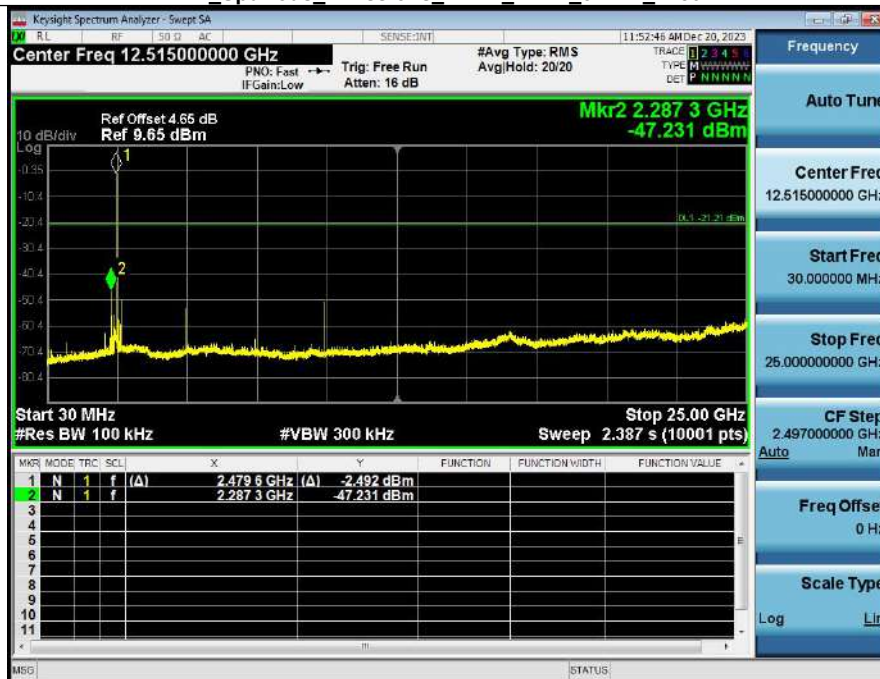
## 2\_Spurious\_Emissions\_NVNT\_ANT1\_3-DH1\_2441



## 1\_Reference\_Level\_NVNT\_ANT1\_3-DH1\_2480

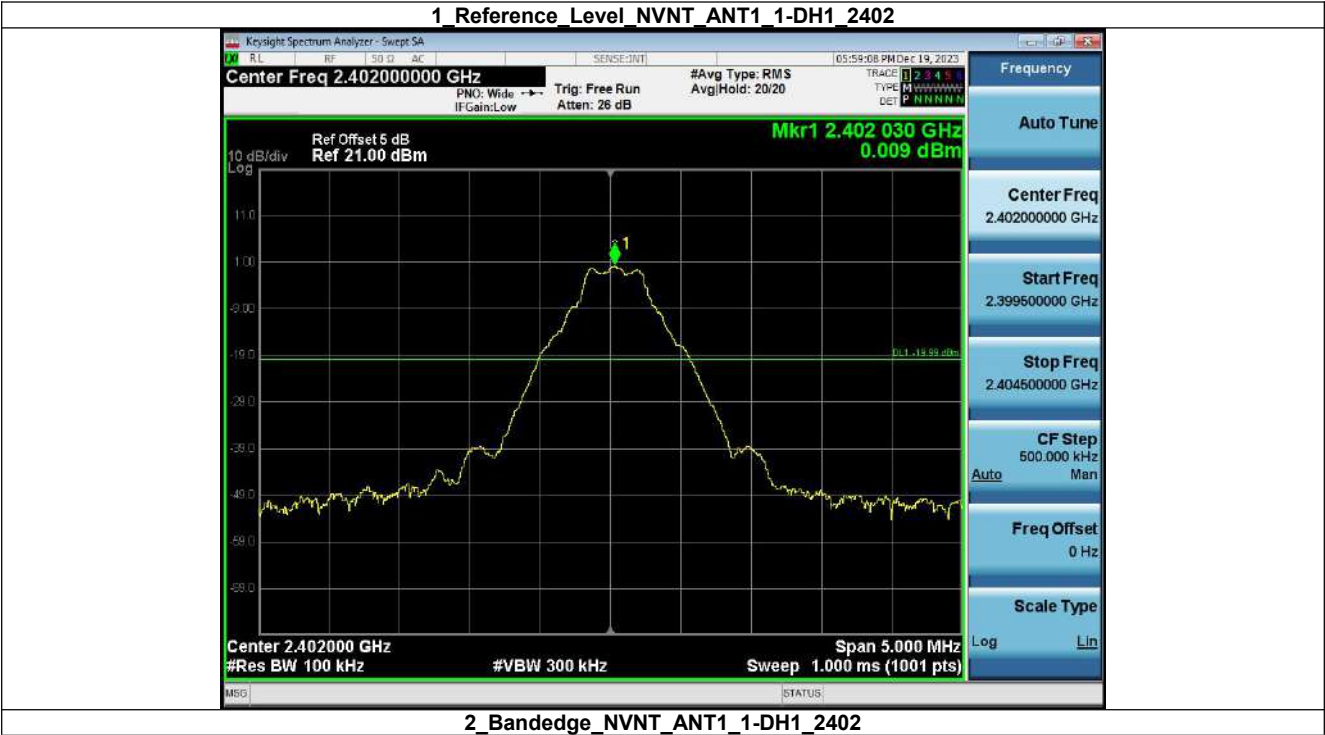


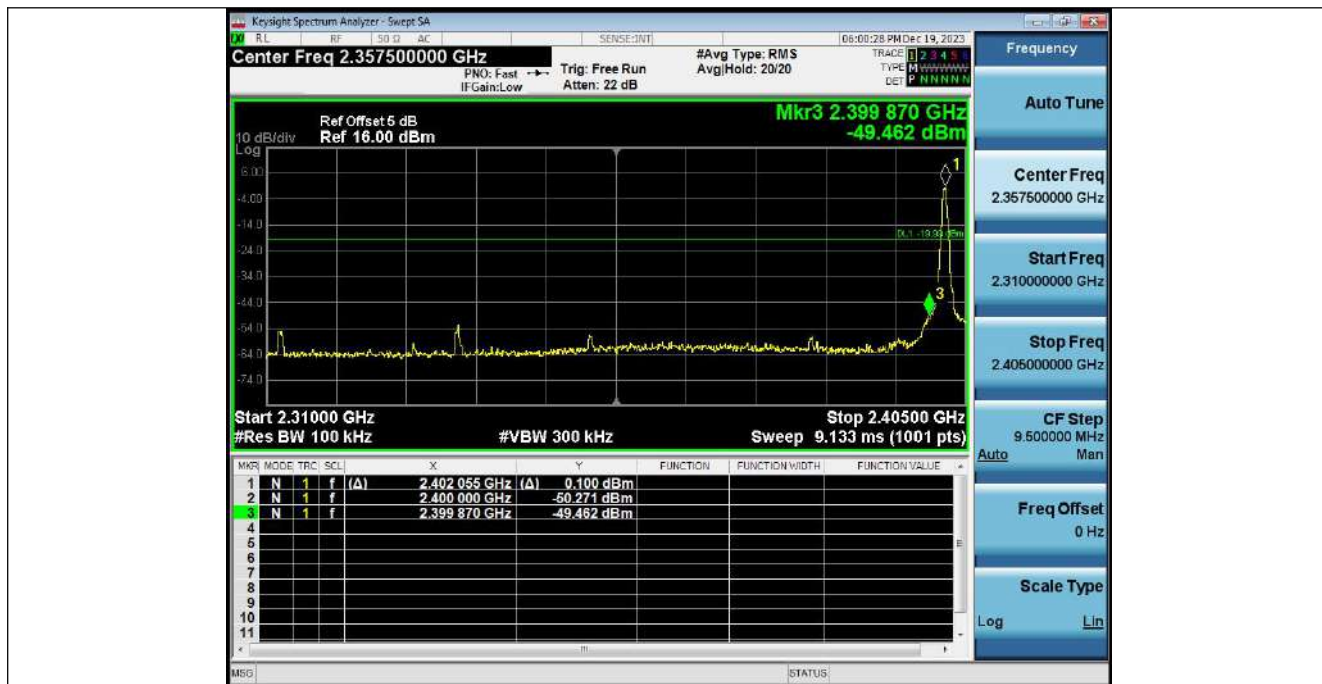
## 2\_Spurious\_Emissions\_NVNT\_ANT1\_3-DH1\_2480



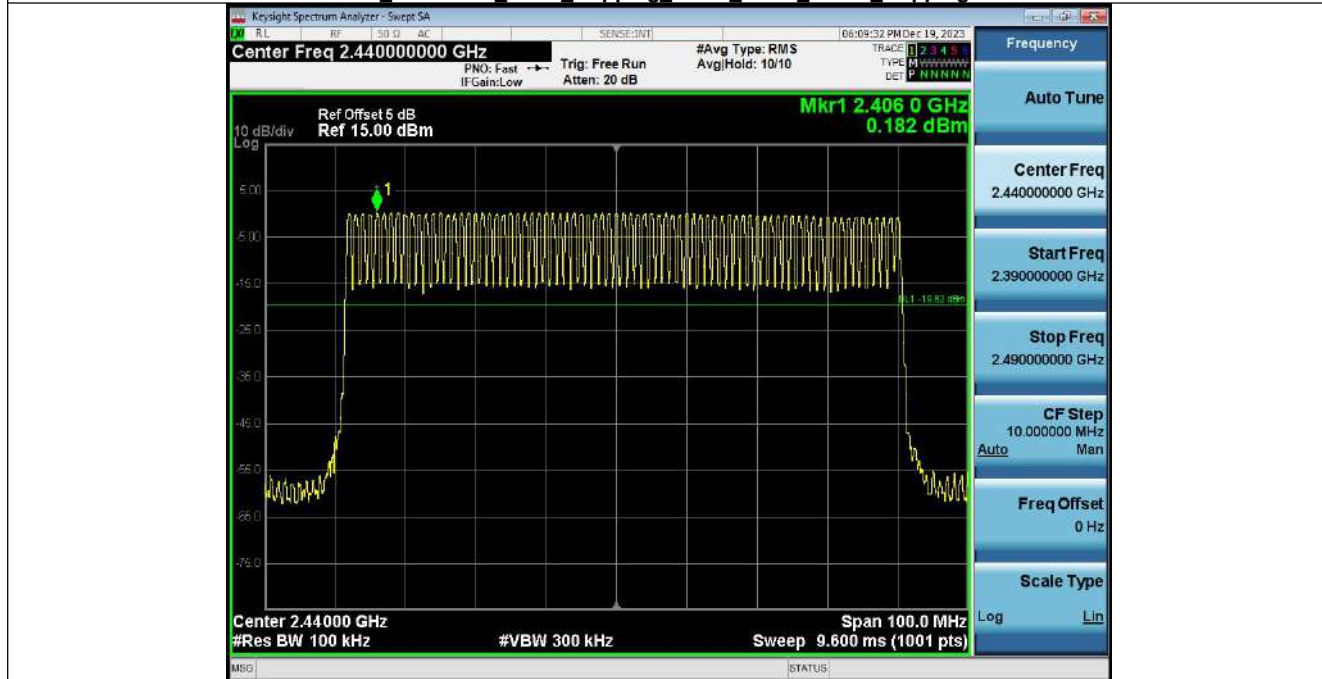
5. Bandedge

| Condition | Antenna | Modulation | TX Mode     | Bandedge MAX.Value | Limit   | Result |
|-----------|---------|------------|-------------|--------------------|---------|--------|
| NVNT      | ANT1    | 1-DH1      | 2402.00     | -49.462            | -19.991 | Pass   |
| NVNT      | ANT1    | 1-DH1      | Hopping_LCH | -49.542            | -19.818 | Pass   |
| NVNT      | ANT1    | 1-DH1      | 2480.00     | -61.255            | -21.187 | Pass   |
| NVNT      | ANT1    | 1-DH1      | Hopping_HCH | -53.310            | -20.031 | Pass   |
| NVNT      | ANT1    | 2-DH1      | 2402.00     | -48.459            | -19.586 | Pass   |
| NVNT      | ANT1    | 2-DH1      | Hopping_LCH | -50.773            | -19.609 | Pass   |
| NVNT      | ANT1    | 2-DH1      | 2480.00     | -62.052            | -21.179 | Pass   |
| NVNT      | ANT1    | 2-DH1      | Hopping_HCH | -53.746            | -19.968 | Pass   |
| NVNT      | ANT1    | 3-DH1      | 2402.00     | -49.704            | -19.661 | Pass   |
| NVNT      | ANT1    | 3-DH1      | Hopping_LCH | -53.653            | -19.634 | Pass   |
| NVNT      | ANT1    | 3-DH1      | 2480.00     | -62.969            | -21.205 | Pass   |
| NVNT      | ANT1    | 3-DH1      | Hopping_HCH | -53.301            | -19.941 | Pass   |

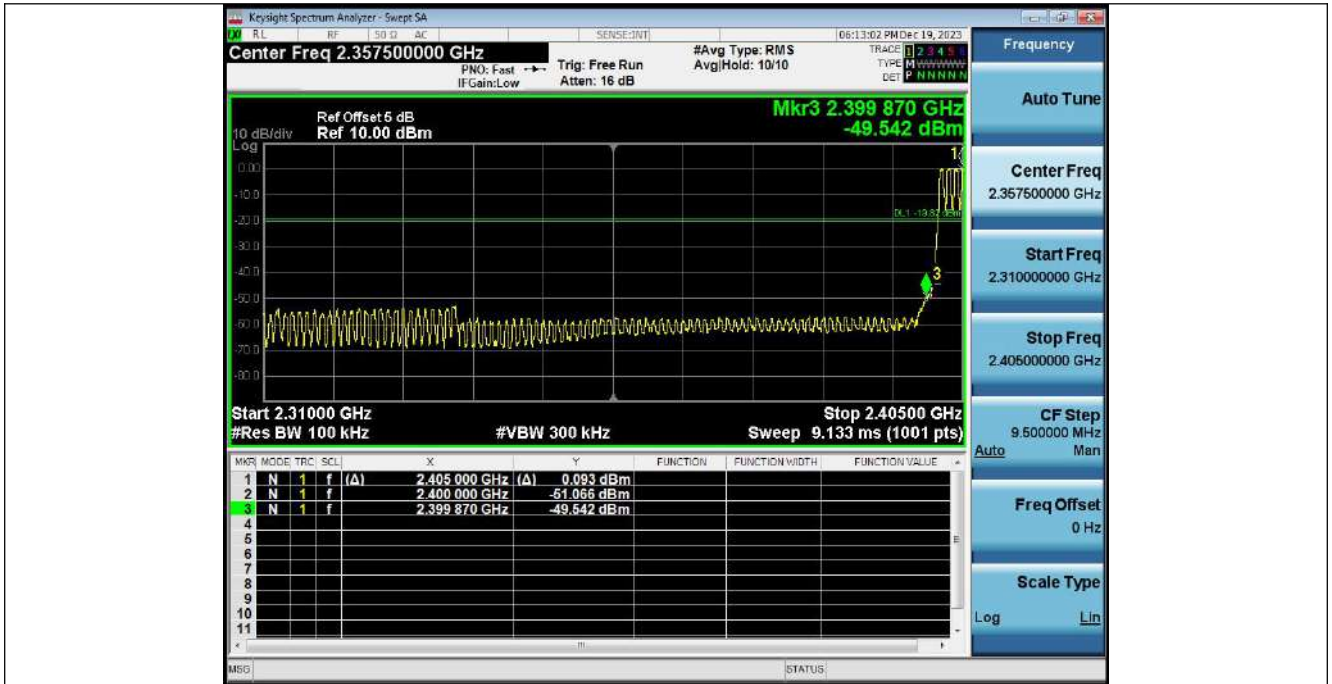




### 1 Reference\_Level\_Hopping\_NVNT\_ANT1\_1-DH1\_Hopping



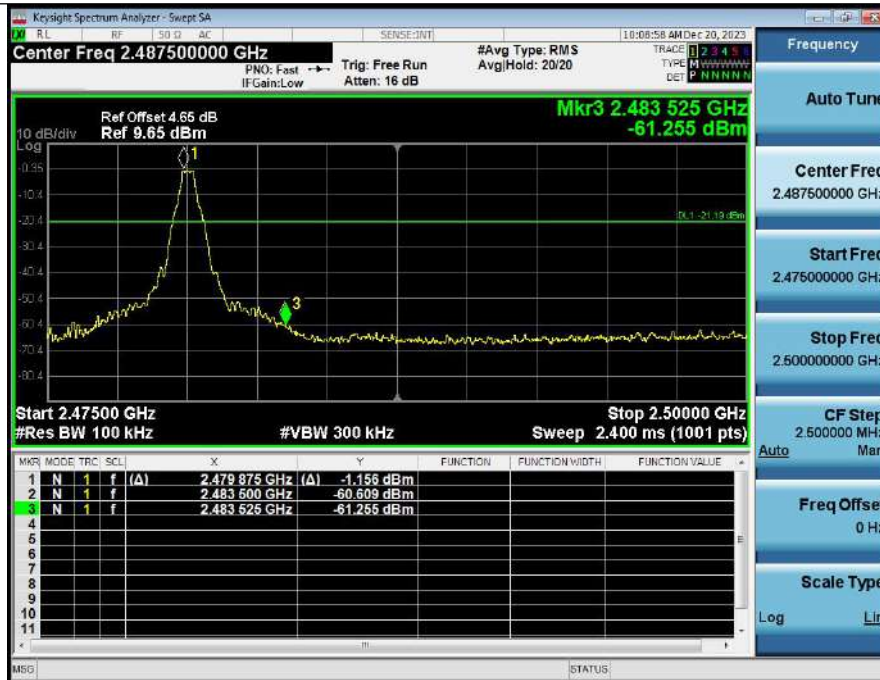
### 2\_Band\_Edge\_(Hopping)\_NVNT\_ANT1\_1-DH1\_Hopping



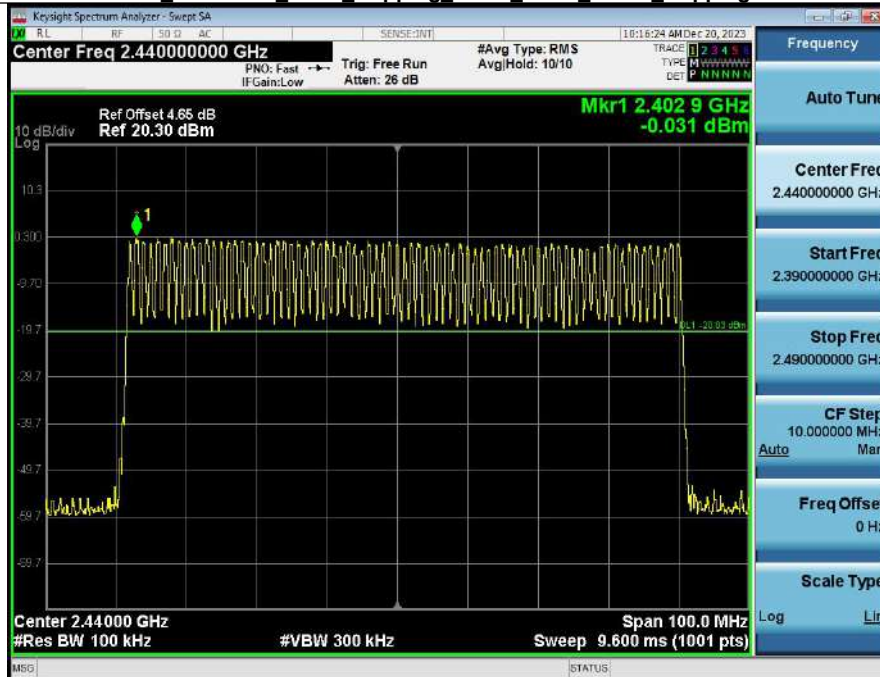
### 1 Reference\_Level\_NVNT\_ANT1\_1-DH1\_2480



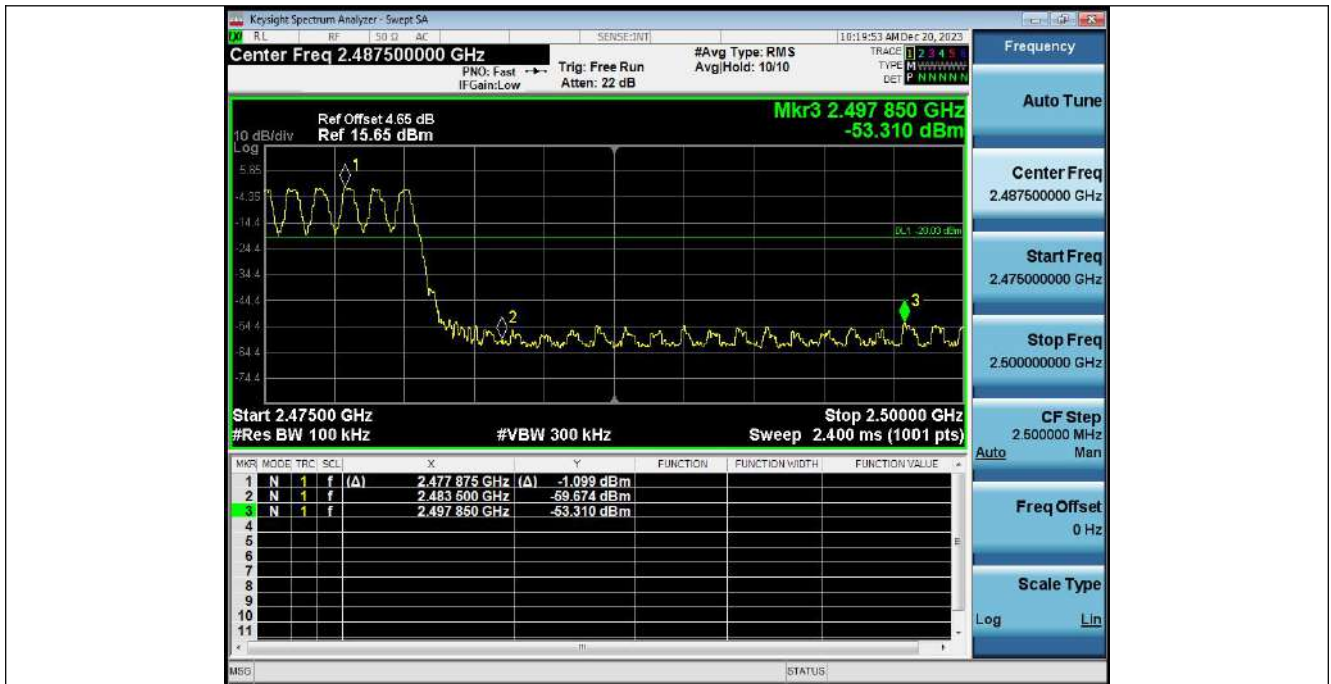
### 2\_Bandedge\_NVNT\_ANT1\_1-DH1\_2480



### 1 Reference\_Level\_Hopping\_NVNT\_ANT1\_1-DH1\_Hopping



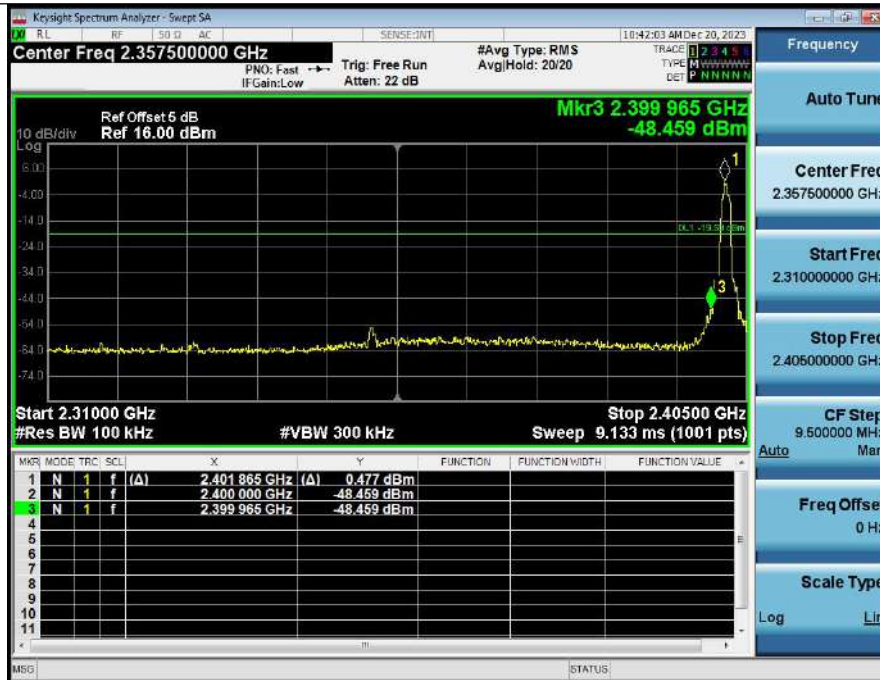
### 2\_Band\_Edge\_(Hopping)\_NVNT\_ANT1\_1-DH1\_Hopping



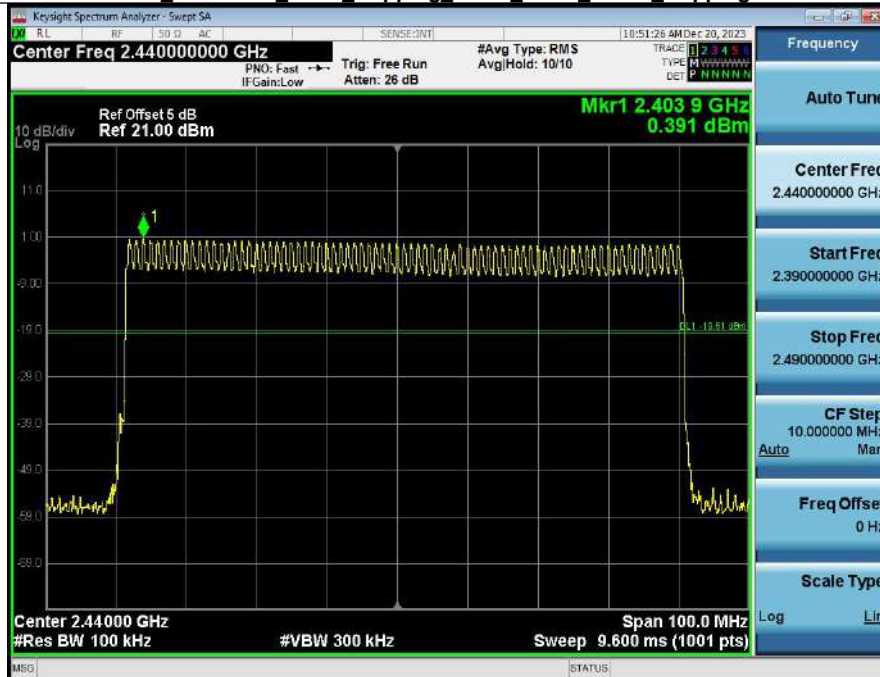
### 1 Reference\_Level\_NVNT\_ANT1\_2-DH1\_2402



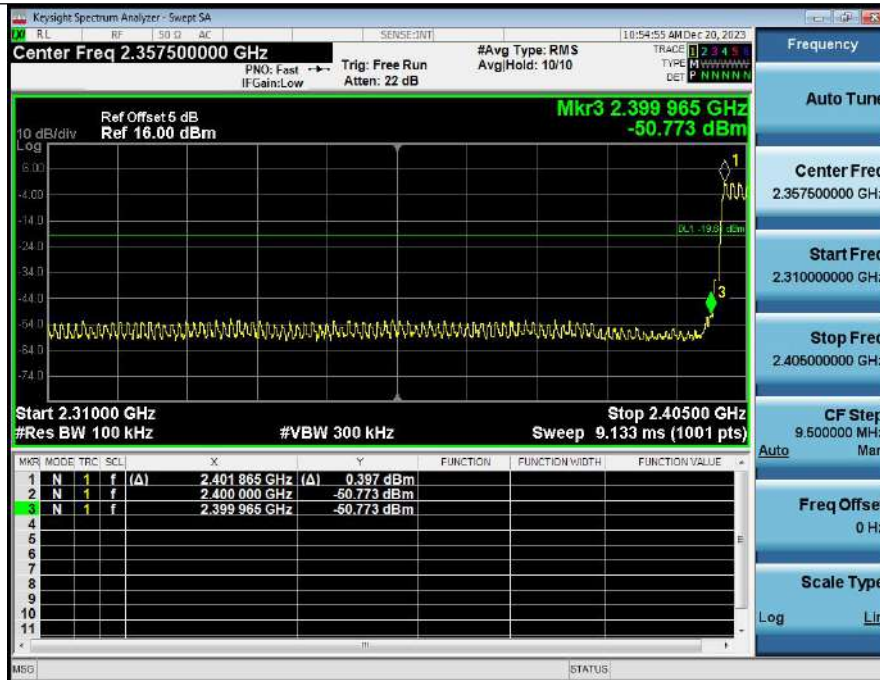
### 2\_Bandedge\_NVNT\_ANT1\_2-DH1\_2402



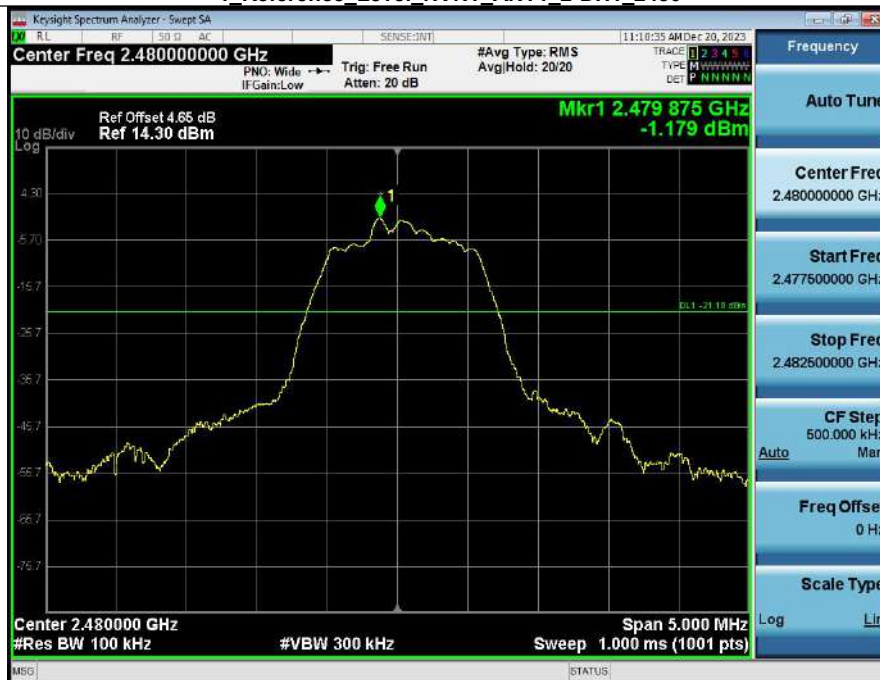
### 1 Reference\_Level\_Hopping\_NVNT\_ANT1\_2-DH1\_Hopping



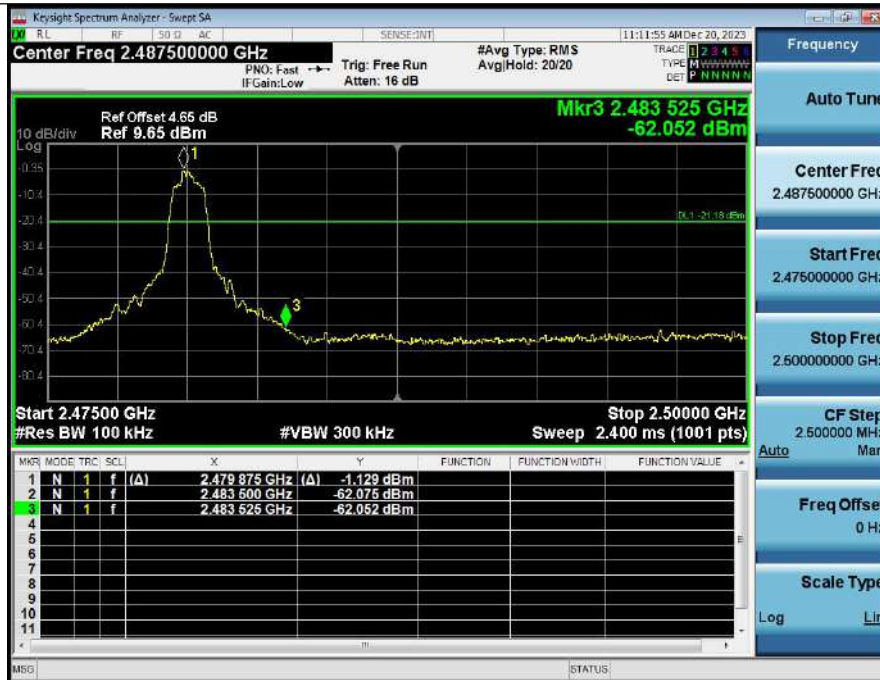
### 2\_Band\_Edge\_(Hopping)\_NVNT\_ANT1\_2-DH1\_Hopping



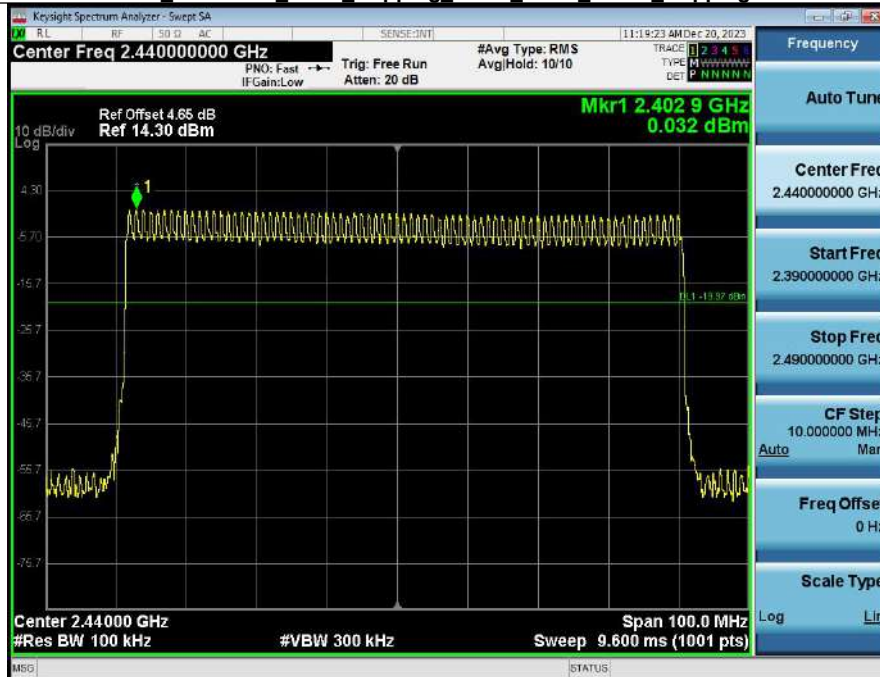
### 1 Reference\_Level\_NVNT\_ANT1\_2-DH1\_2480



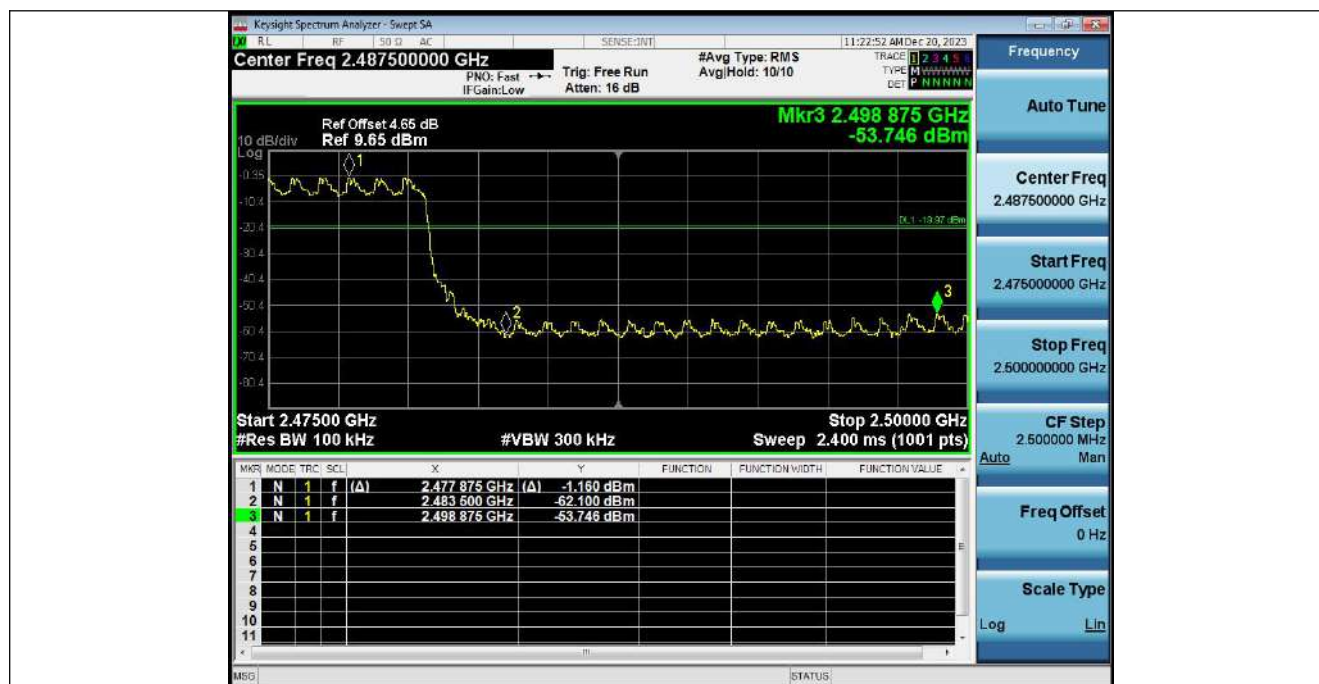
### 2\_Bandedge\_NVNT\_ANT1\_2-DH1\_2480



### 1 Reference\_Level\_Hopping\_NVNT\_ANT1\_2-DH1\_Hopping



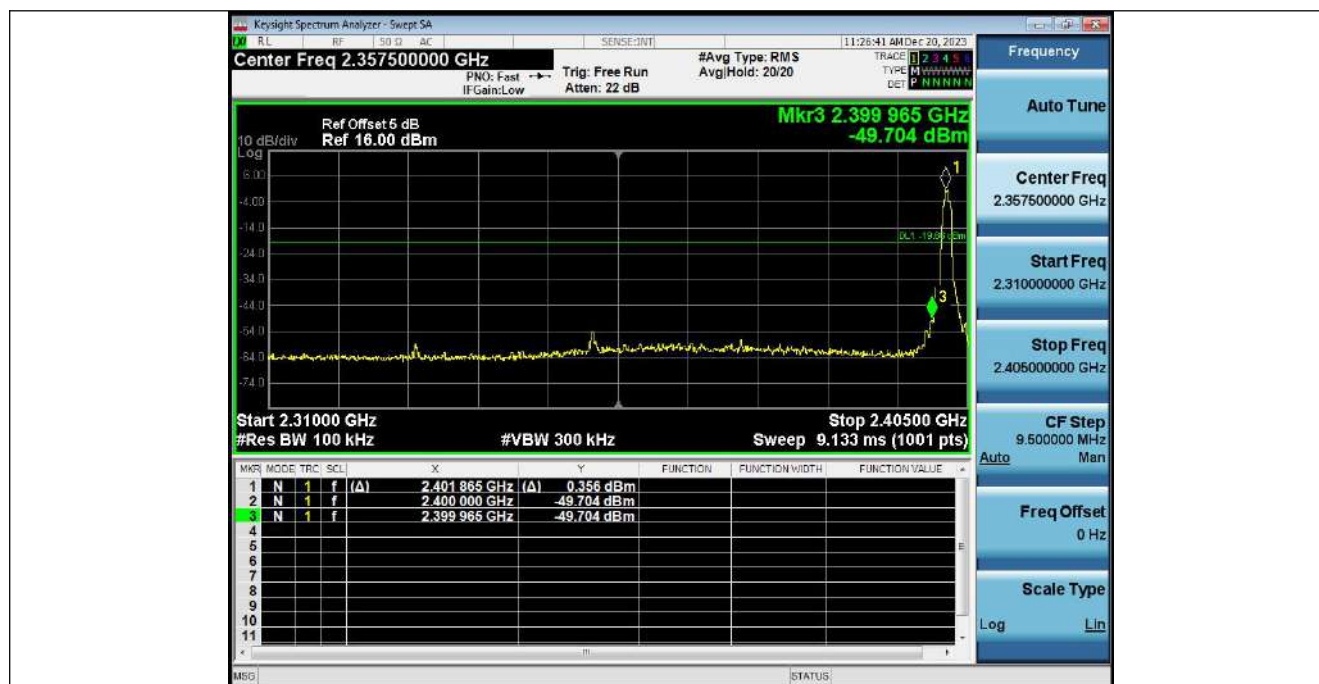
### 2\_Band\_Edge\_(Hopping)\_NVNT\_ANT1\_2-DH1\_Hopping



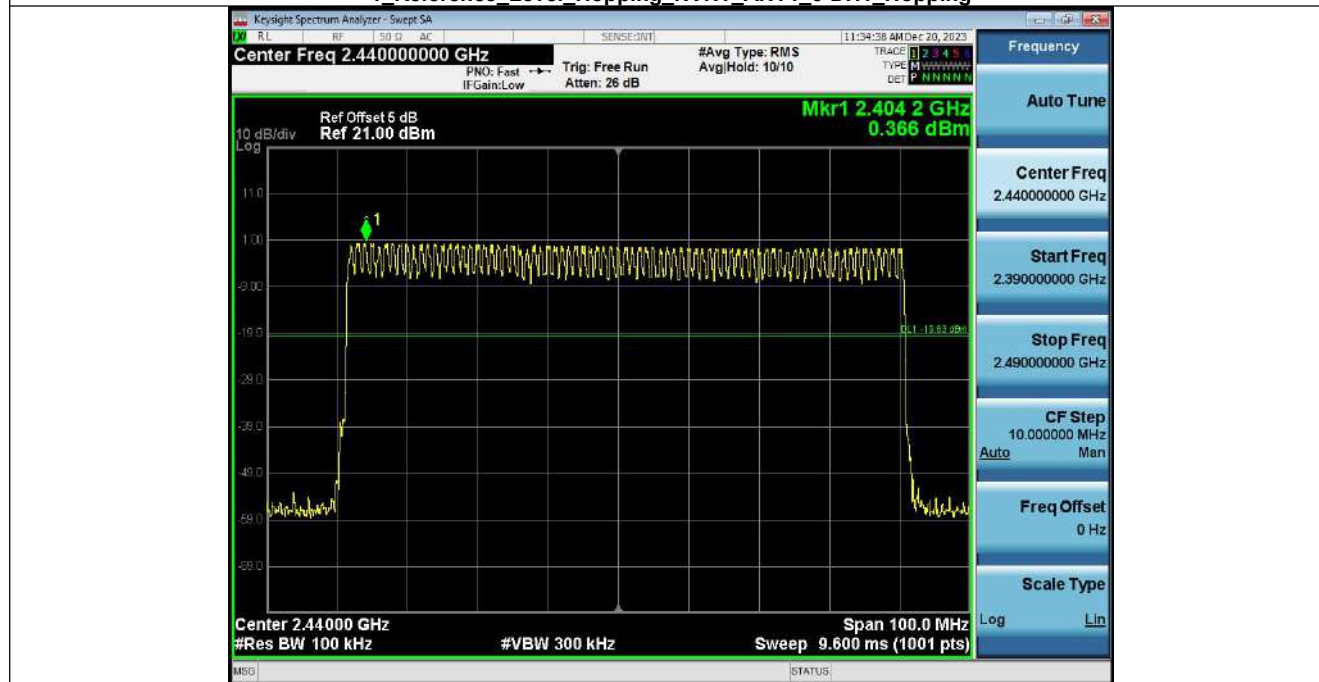
### 1 Reference\_Level\_NVNT\_ANT1\_3-DH1\_2402



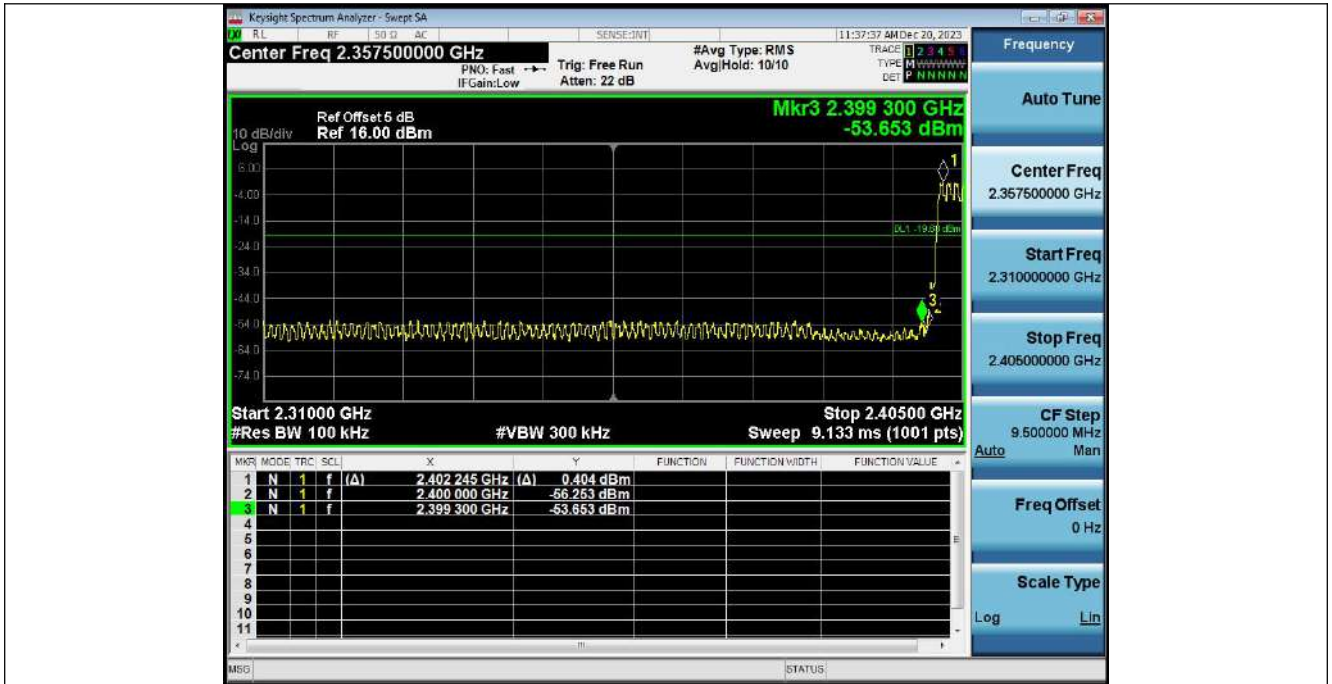
### 2\_Bandedge\_NVNT\_ANT1\_3-DH1\_2402



### 1 Reference\_Level\_Hopping\_NVNT\_ANT1\_3-DH1\_Hopping



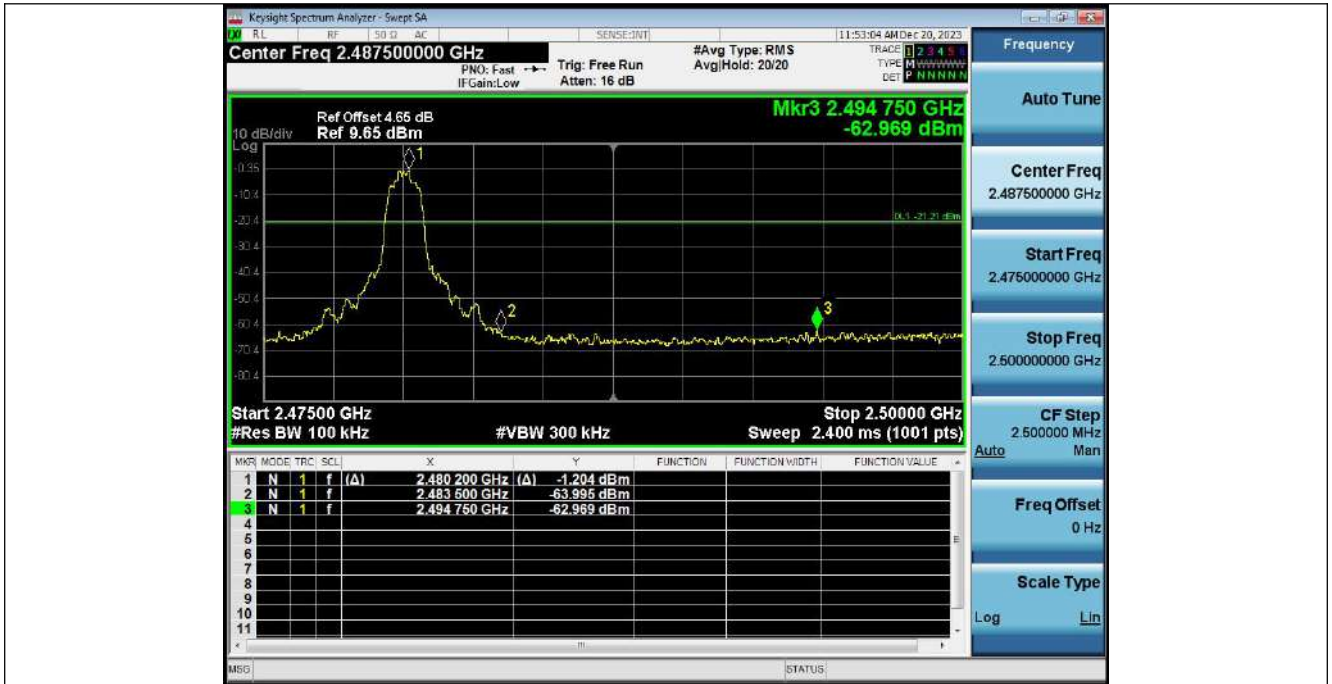
### 2 Band\_Edge\_(Hopping)\_NVNT\_ANT1\_3-DH1\_Hopping



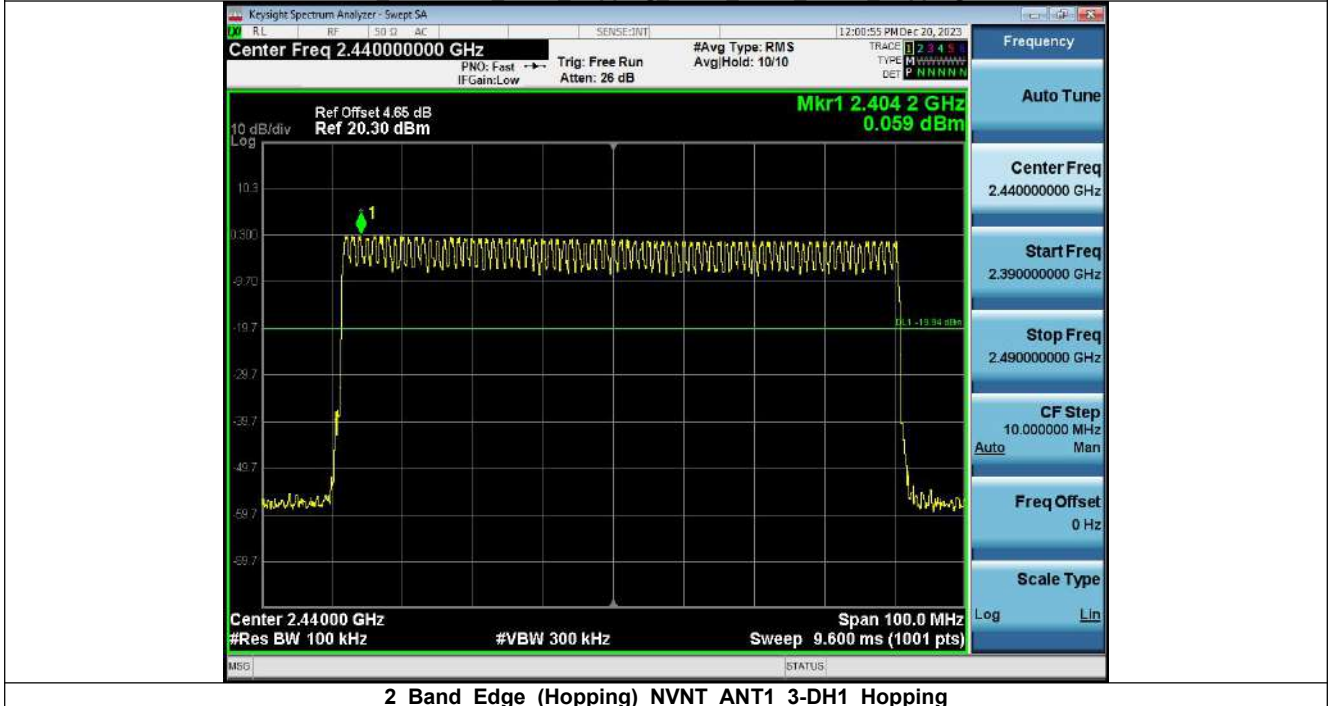
### 1 Reference\_Level\_NVNT\_ANT1\_3-DH1\_2480



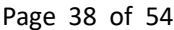
### 2\_Bandedge\_NVNT\_ANT1\_3-DH1\_2480



### 1 Reference\_Level\_Hopping\_NVNT\_ANT1\_3-DH1\_Hopping



### 2 Band\_Edge\_(Hopping)\_NVNT\_ANT1\_3-DH1\_Hopping



6. Carrier Frequencies Separation (Hopping)

| Condition | Antenna | Modulation | Frequency(MHz) | Hopping NO.0 (MHz) | Hopping NO.1 (MHz) | Carrier Frequencies Separation(MHz) | Limit(MHz) | Result |
|-----------|---------|------------|----------------|--------------------|--------------------|-------------------------------------|------------|--------|
| NVNT      | ANT1    | 1-DH1      | 2402.00        | 2402.023           | 2403.028           | 1.005                               | 0.869      | Pass   |
| NVNT      | ANT1    | 1-DH1      | 2441.00        | 2440.861           | 2441.869           | 1.008                               | 0.974      | Pass   |
| NVNT      | ANT1    | 1-DH1      | 2480.00        | 2478.873           | 2479.875           | 1.002                               | 0.927      | Pass   |
| NVNT      | ANT1    | 2-DH1      | 2402.00        | 2401.870           | 2402.872           | 1.002                               | 0.850      | Pass   |
| NVNT      | ANT1    | 2-DH1      | 2441.00        | 2440.870           | 2441.872           | 1.002                               | 0.851      | Pass   |
| NVNT      | ANT1    | 2-DH1      | 2480.00        | 2478.873           | 2479.872           | 0.999                               | 0.847      | Pass   |
| NVNT      | ANT1    | 3-DH1      | 2402.00        | 2401.870           | 2402.869           | 0.999                               | 0.816      | Pass   |
| NVNT      | ANT1    | 3-DH1      | 2441.00        | 2440.867           | 2441.869           | 1.002                               | 0.817      | Pass   |
| NVNT      | ANT1    | 3-DH1      | 2480.00        | 2478.873           | 2479.869           | 0.996                               | 0.837      | Pass   |



Carrier\_Frequencies\_Separation\_(Hopping)\_NVNT\_ANT1\_1-DH1\_Hopping



Carrier\_Frequencies\_Separation\_(Hopping)\_NVNT\_ANT1\_1-DH1\_Hopping



Carrier\_Frequencies\_Separation\_(Hopping)\_NVNT\_ANT1\_2-DH1\_Hopping



Carrier\_Frequencies\_Separation\_(Hopping)\_NVNT\_ANT1\_2-DH1\_Hopping



Carrier\_Frequencies\_Separation\_(Hopping)\_NVNT\_ANT1\_2-DH1\_Hopping



### Carrier\_Frequencies\_Separation\_(Hopping)\_NVNT\_ANT1\_3-DH1\_Hopping



### Carrier\_Frequencies\_Separation\_(Hopping)\_NVNT\_ANT1\_3-DH1\_Hopping

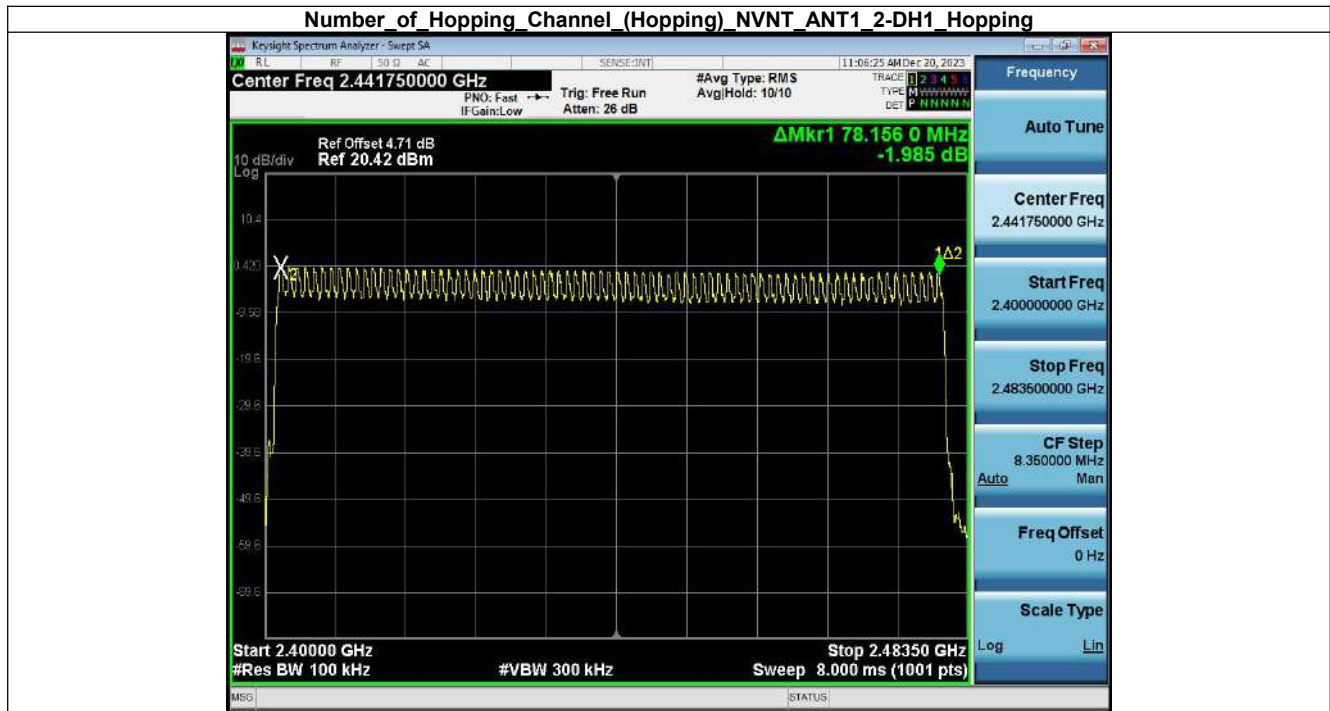
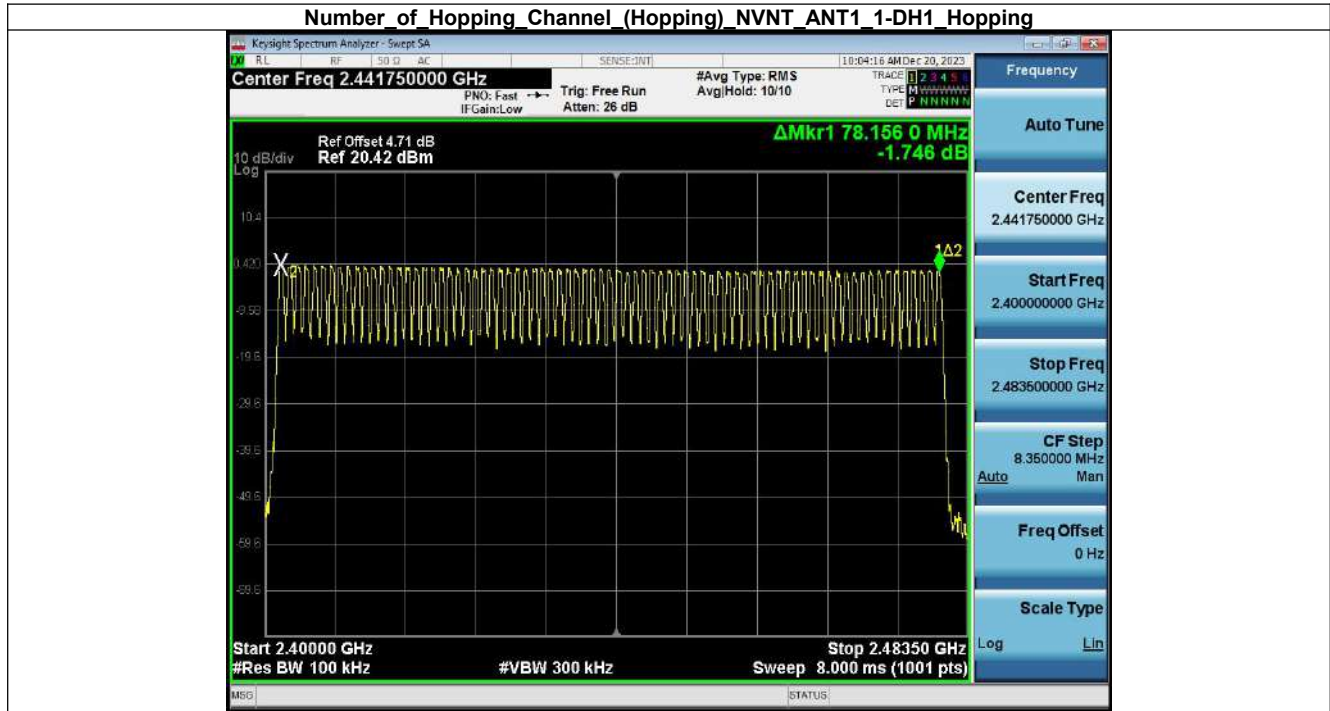


### Carrier Frequencies Separation (Hopping) NVNT ANT1 3-DH1 Hopping

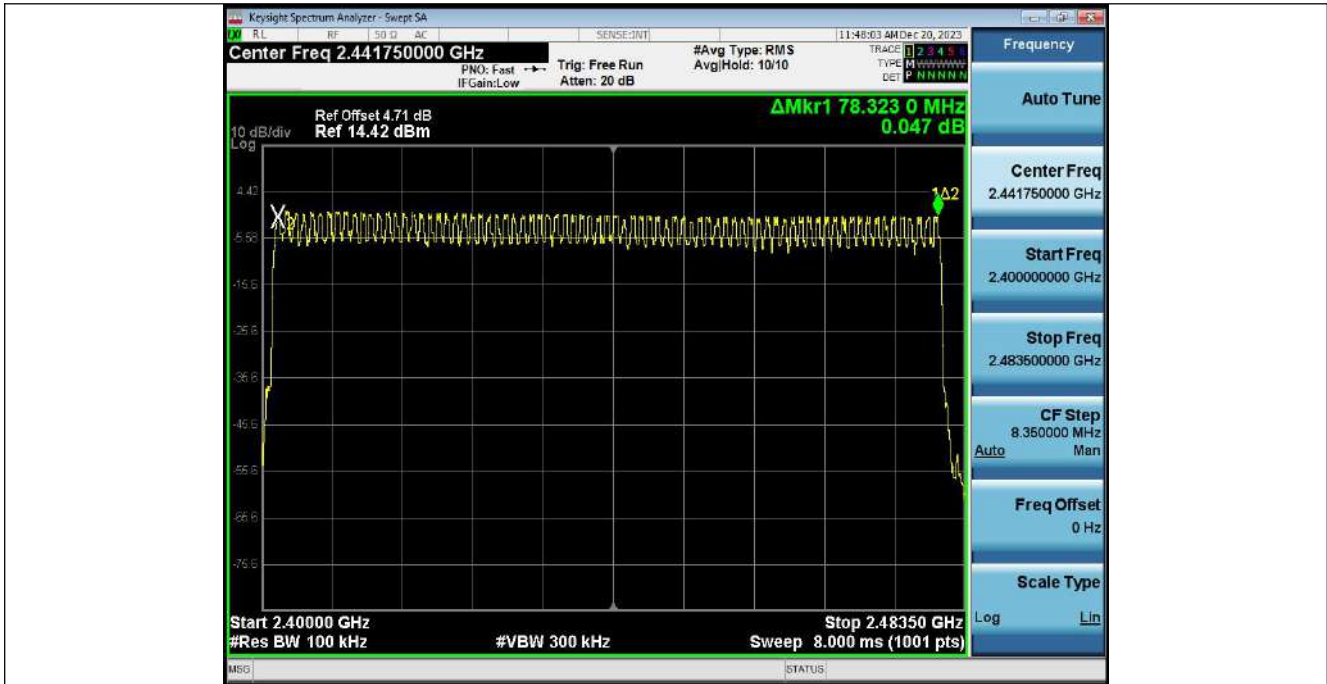


7. Number of Hopping Channel (Hopping)

| Condition | Antenna | Modulation | Hopping Num | Limit | Result |
|-----------|---------|------------|-------------|-------|--------|
| NVNT      | ANT1    | 1-DH1      | 79          | 15    | Pass   |
| NVNT      | ANT1    | 2-DH1      | 79          | 15    | Pass   |
| NVNT      | ANT1    | 3-DH1      | 79          | 15    | Pass   |

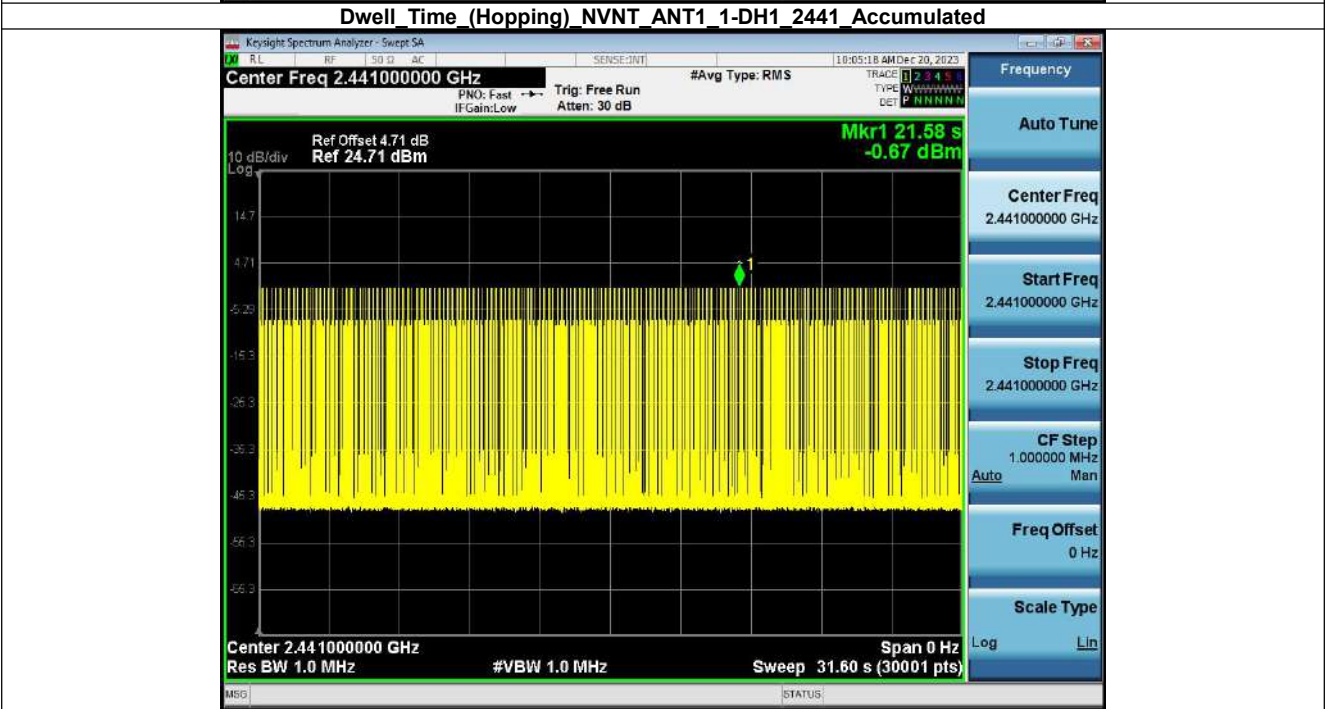
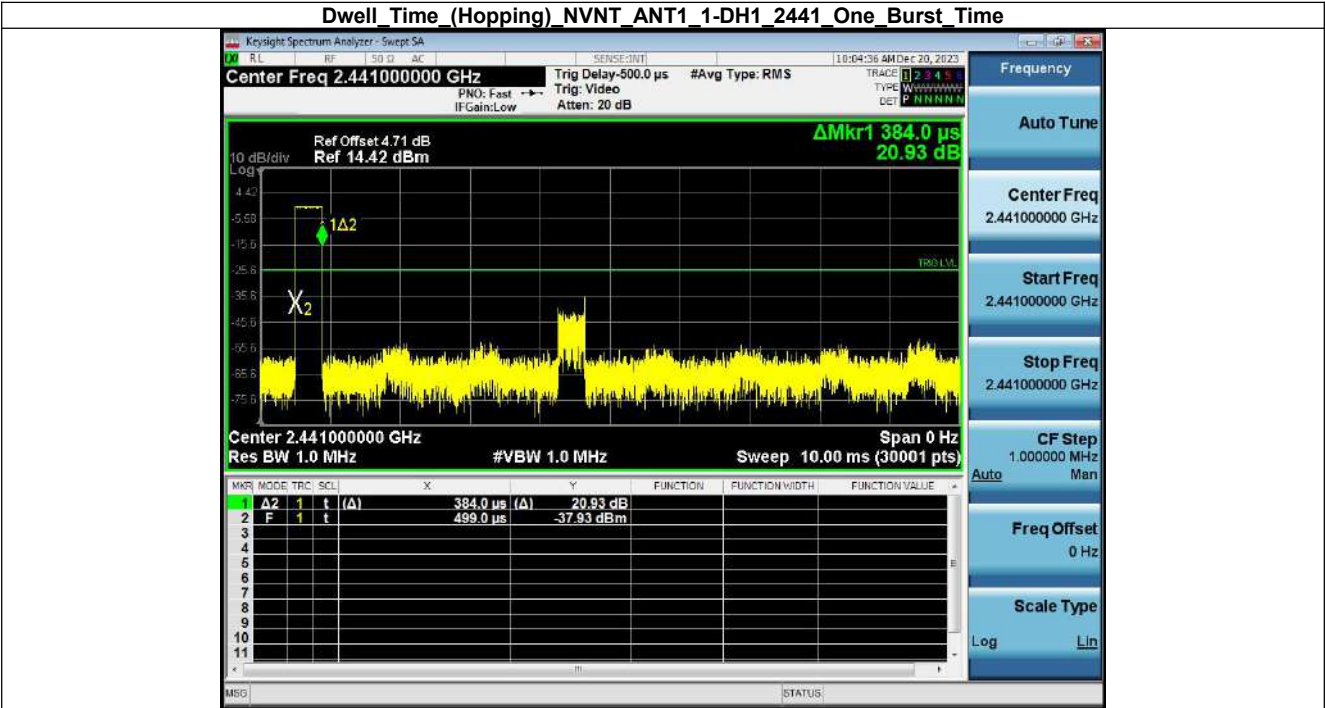


Number\_of\_Hopping\_Channel\_(Hopping)\_NVNT\_ANT1\_3-DH1\_Hopping

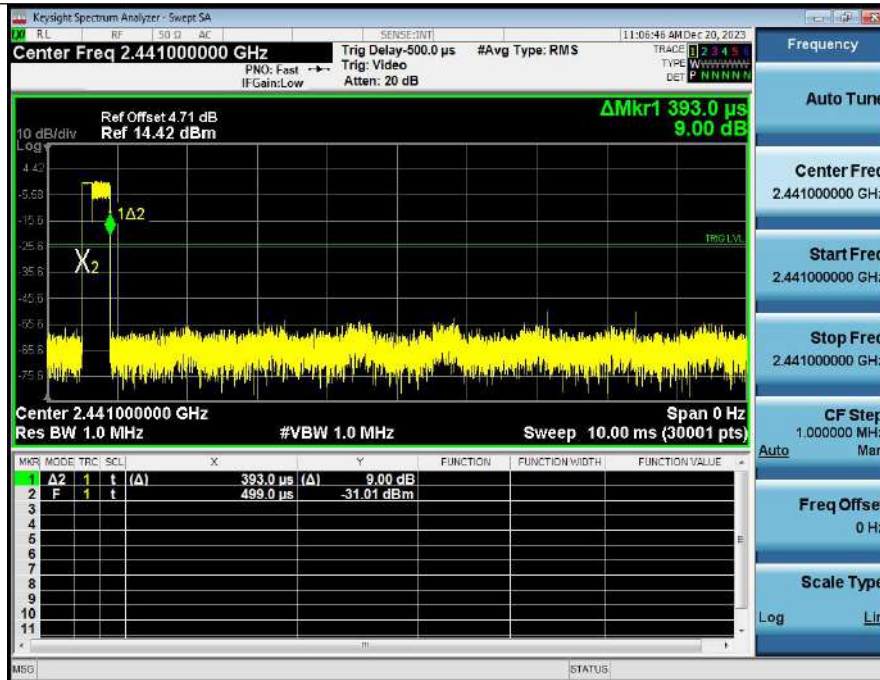


8. Dwell Time (Hopping)

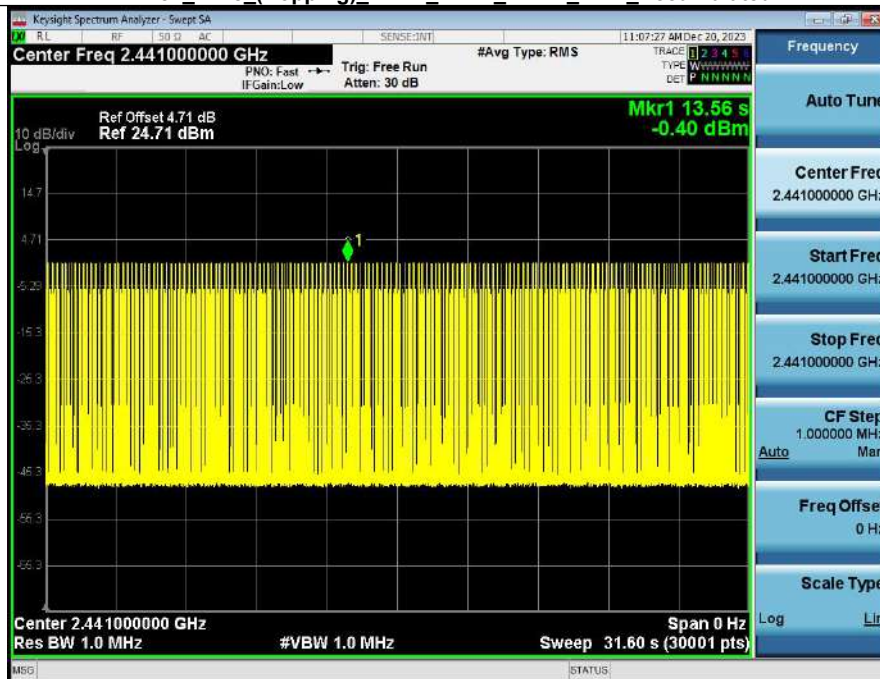
| Condition | Antenna | Packet Type | Pulse Time(ms) | Hops   | Dwell Time(ms) | Limit(s) | Result |
|-----------|---------|-------------|----------------|--------|----------------|----------|--------|
| NVNT      | ANT1    | 1-DH1       | 0.384          | 321.00 | 123.264        | 0.40     | Pass   |
| NVNT      | ANT1    | 2-DH1       | 0.393          | 320.00 | 125.760        | 0.40     | Pass   |
| NVNT      | ANT1    | 3-DH1       | 0.393          | 319.00 | 125.367        | 0.40     | Pass   |
| NVNT      | ANT1    | 1-DH5       | 1.640          | 162.00 | 265.680        | 0.40     | Pass   |
| NVNT      | ANT1    | 2-DH3       | 1.645          | 153.00 | 251.685        | 0.40     | Pass   |
| NVNT      | ANT1    | 2-DH5       | 2.893          | 110.00 | 318.230        | 0.40     | Pass   |
| NVNT      | ANT1    | 3-DH3       | 1.644          | 159.00 | 261.396        | 0.40     | Pass   |
| NVNT      | ANT1    | 3-DH5       | 2.895          | 97.00  | 280.815        | 0.40     | Pass   |



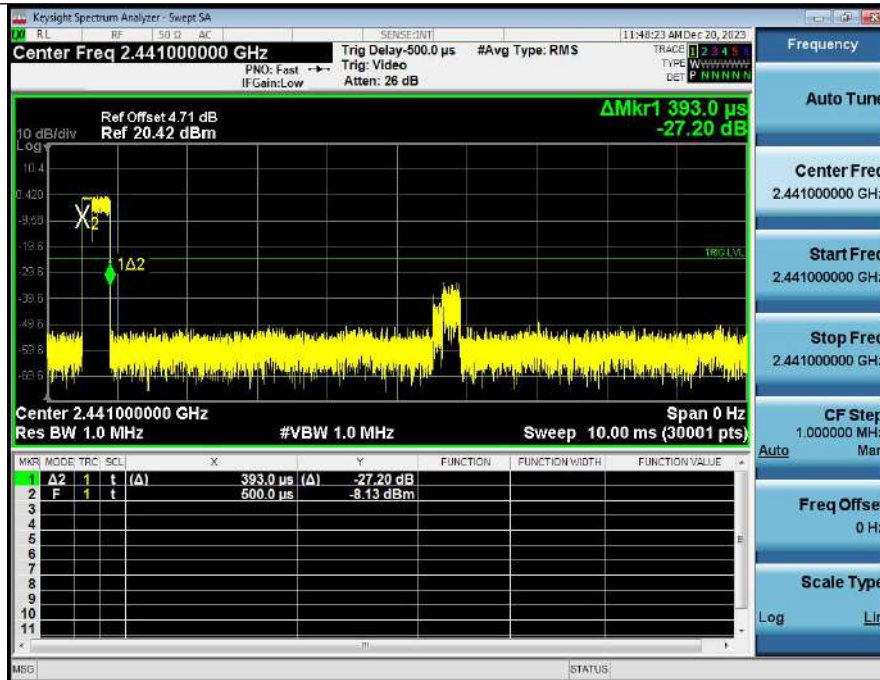
Dwell\_Time (Hopping) NVNT ANT1 2-DH1 2441 One Burst Time



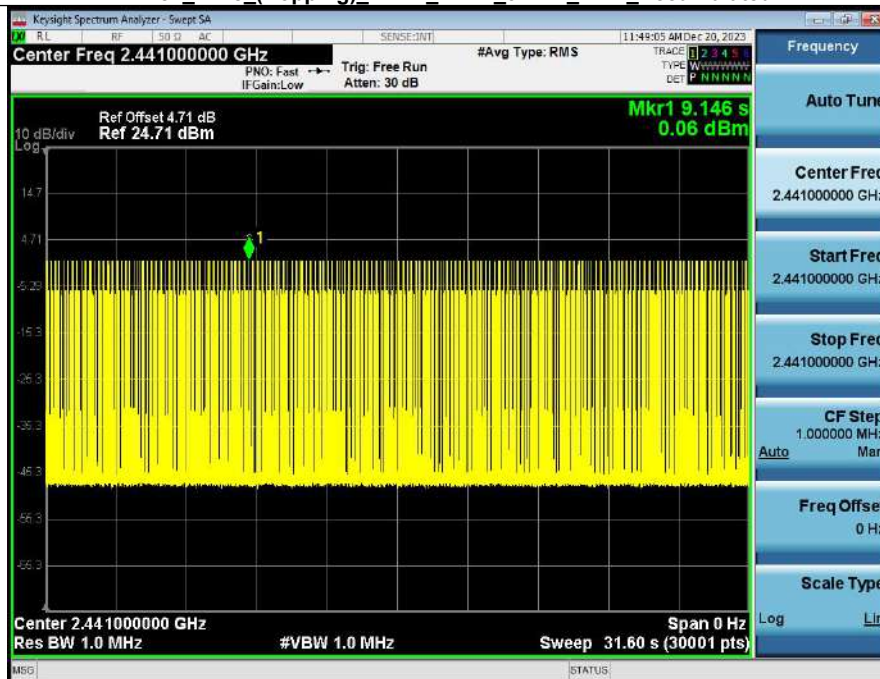
Dwell Time (Hopping) NVNT\_ANT1\_2-DH1\_2441\_Accumulated



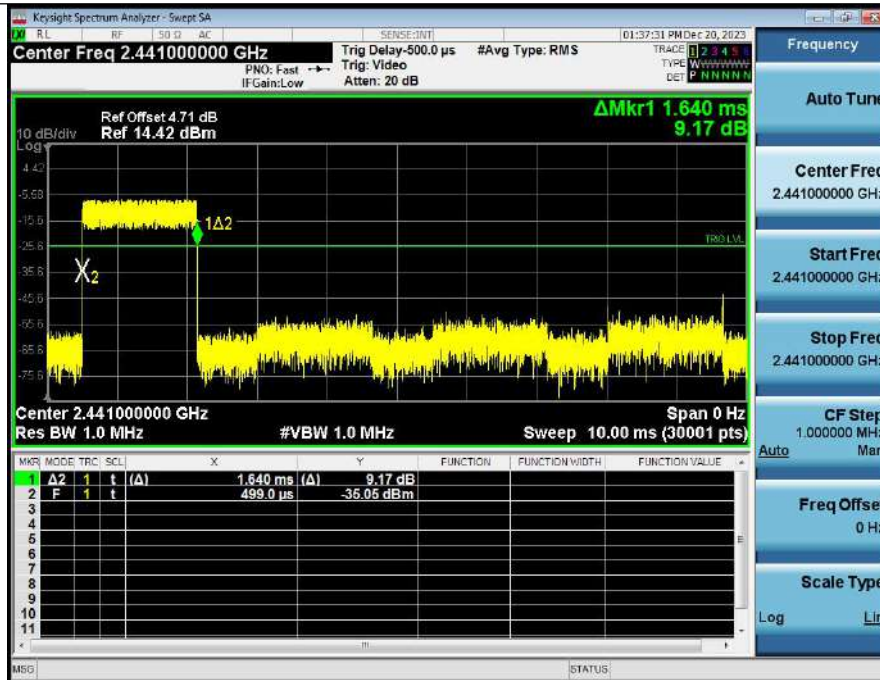
Dwell Time (Hopping) NVNT\_ANT1\_3-DH1\_2441\_One\_Burst Time



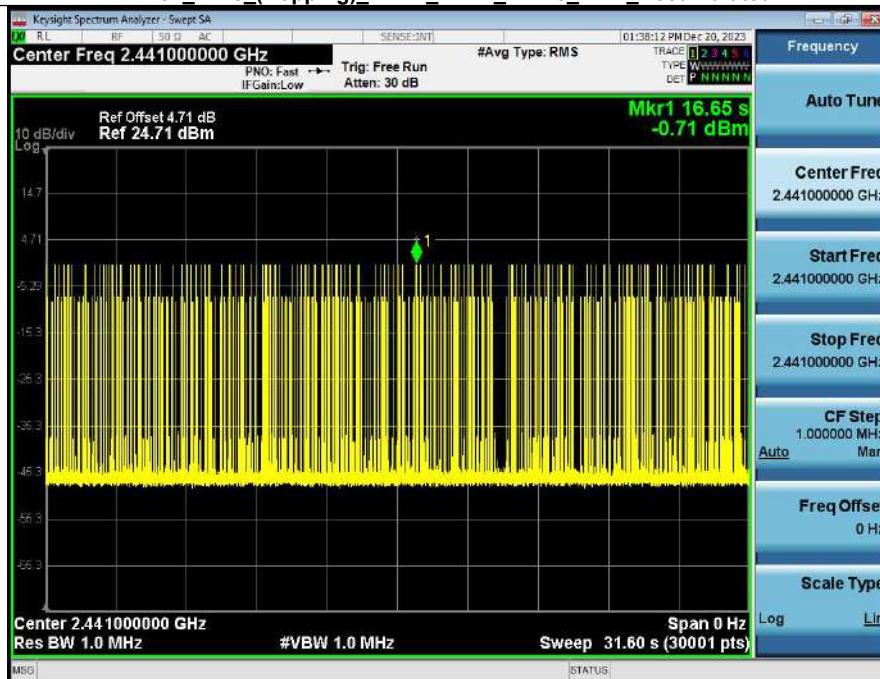
Dwell Time (Hopping) NVNT\_ANT1\_3-DH1\_2441\_Accumulated



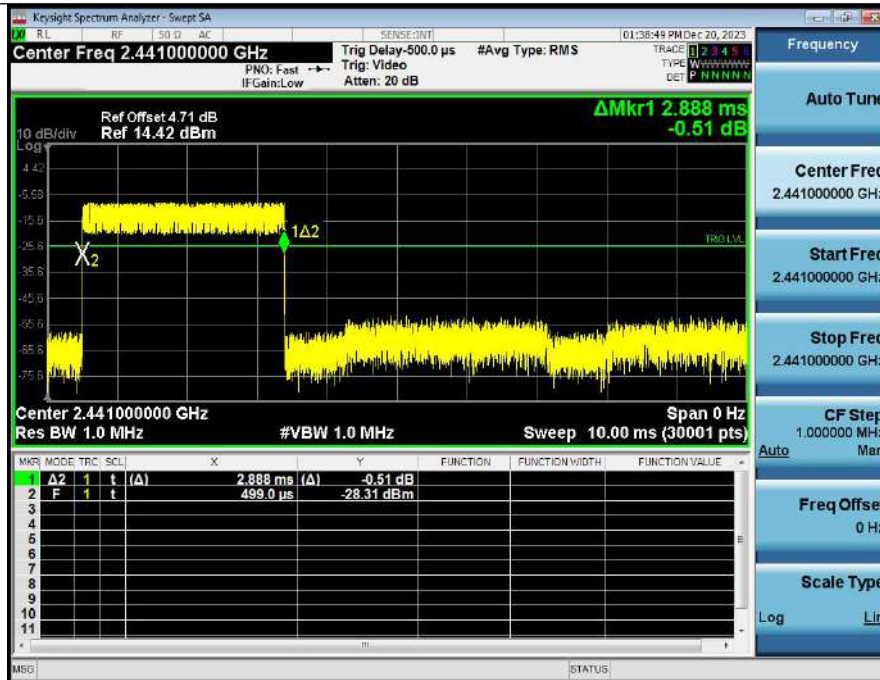
Dwell Time (Hopping) NVNT\_ANT1\_1-DH3\_2441\_One\_Burst Time



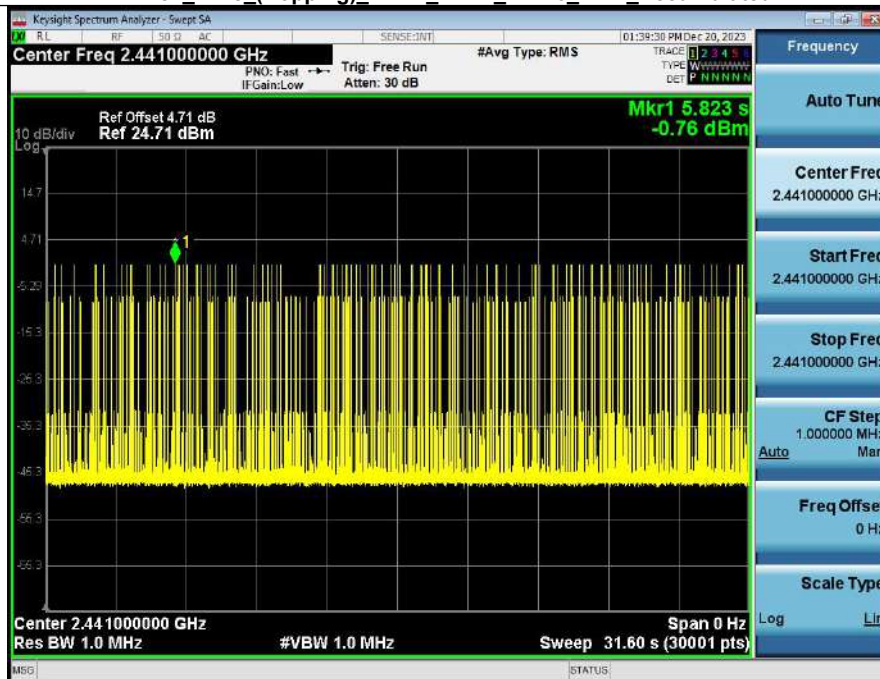
Dwell Time (Hopping) NVNT\_ANT1\_1-DH3\_2441\_Accumulated



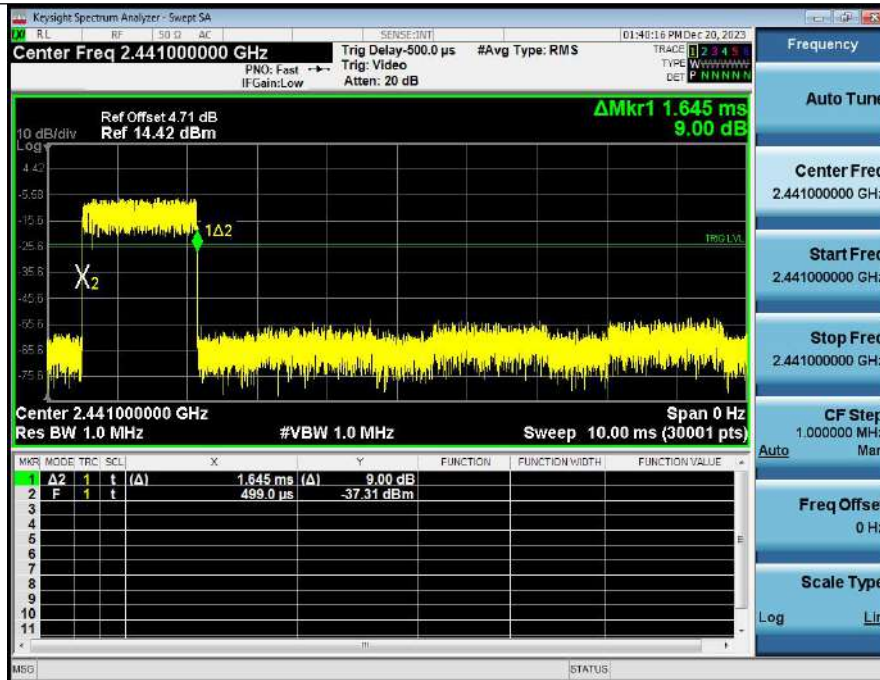
Dwell Time (Hopping) NVNT\_ANT1\_1-DH5\_2441\_One\_Burst Time



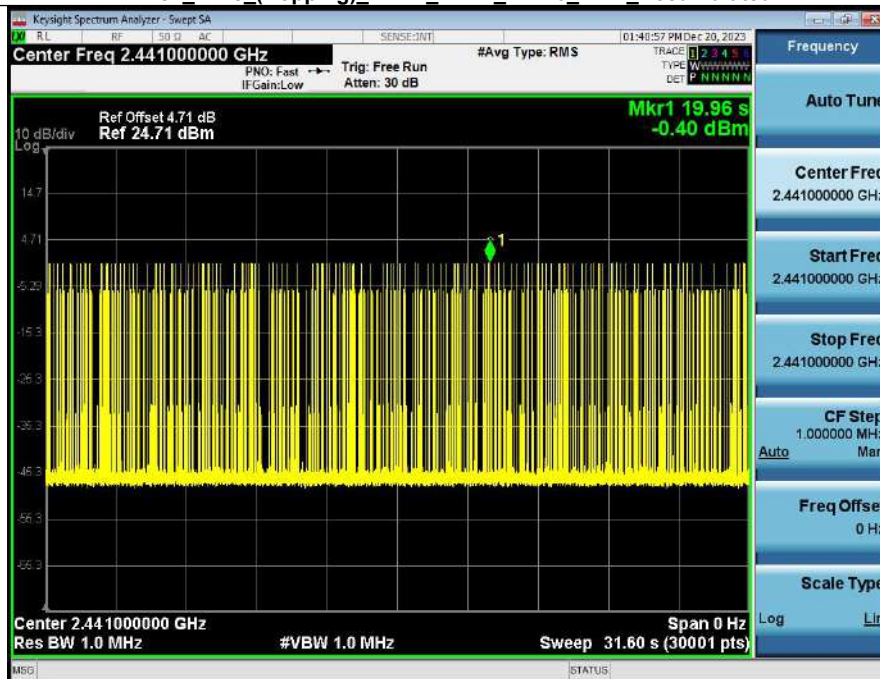
Dwell Time (Hopping) NVNT\_ANT1\_1-DH5\_2441\_Accumulated



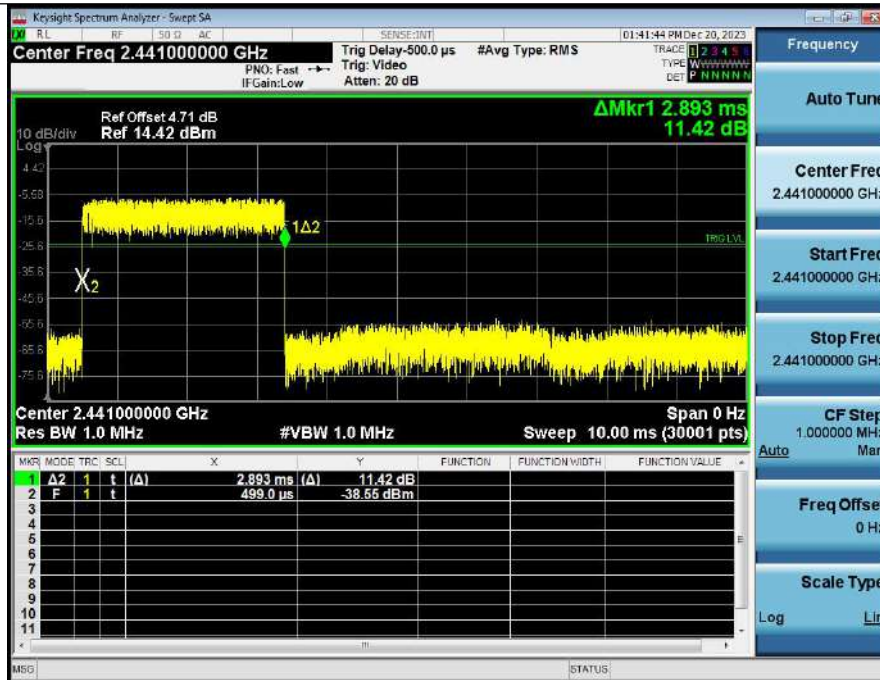
Dwell Time (Hopping) NVNT\_ANT1\_2-DH3\_2441\_One\_Burst Time



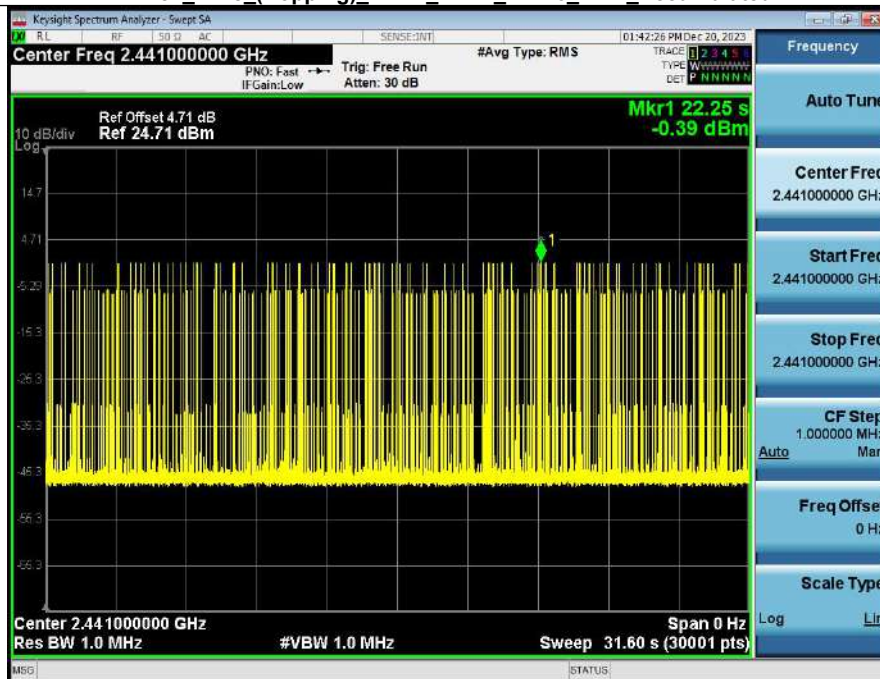
Dwell Time (Hopping) NVNT\_ANT1\_2-DH3\_2441\_Accumulated



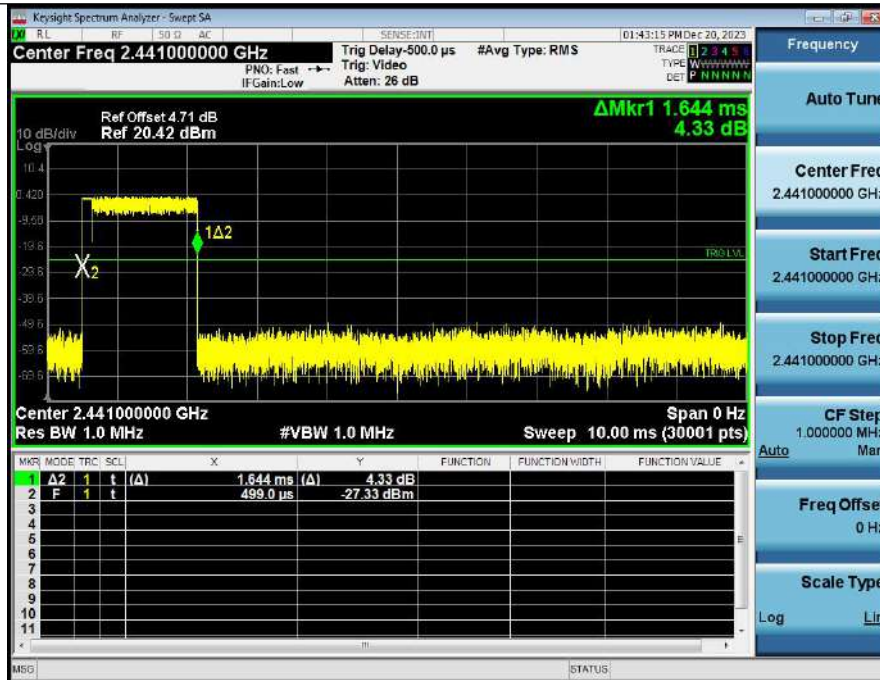
Dwell Time (Hopping) NVNT\_ANT1\_2-DH5\_2441\_One\_Burst Time



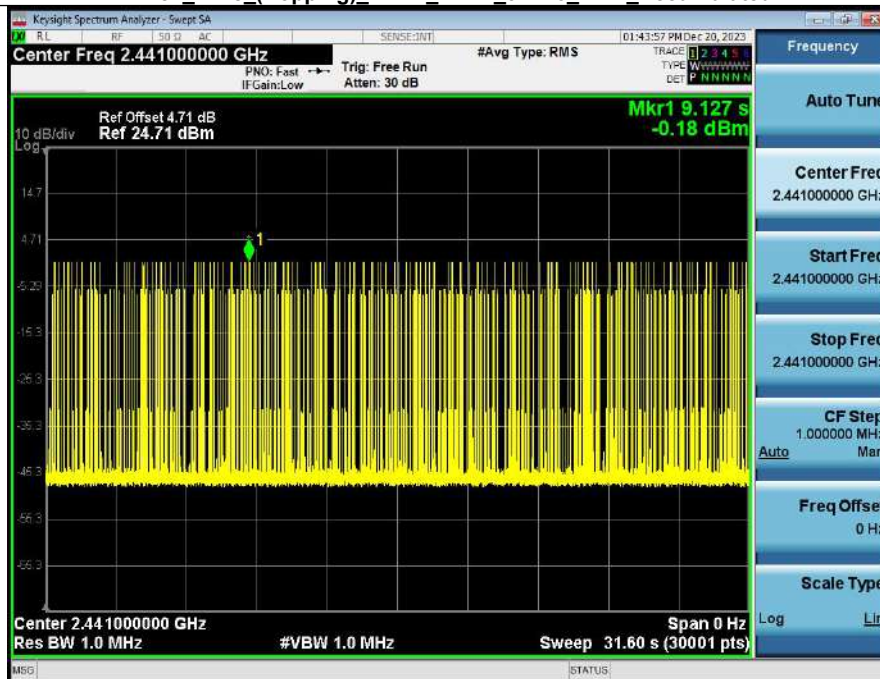
Dwell Time (Hopping) NVNT\_ANT1\_2-DH5\_2441\_Accumulated



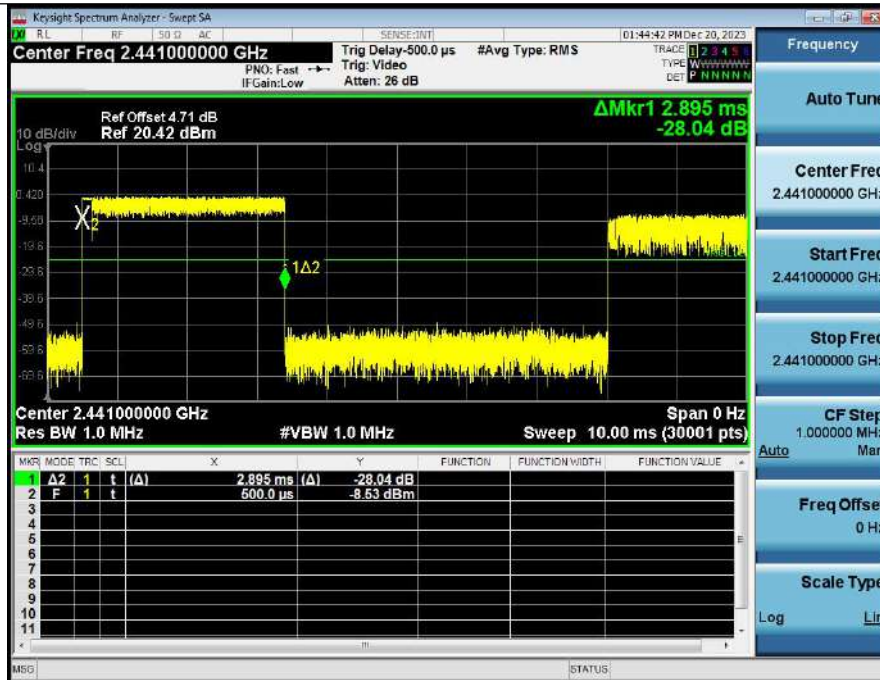
Dwell Time (Hopping) NVNT\_ANT1\_3-DH3\_2441\_One\_Burst Time



Dwell Time (Hopping) NVNT\_ANT1\_3-DH3\_2441\_Accumulated



Dwell Time (Hopping) NVNT\_ANT1\_3-DH5\_2441\_One\_Burst Time



Dwell Time (Hopping) NVNT\_ANT1\_3-DH5\_2441\_Accumulated

