



Appendix A

RF Test Data for BT LE(Conducted Measurement)

Product Name: Smart Sock Shoe

Test Model: SU601

Environmental Conditions

|                    |           |
|--------------------|-----------|
| Temperature:       | 23.8°C    |
| Relative Humidity: | 52.1%     |
| ATM Pressure:      | 100.0 kPa |
| Test Engineer:     | Jay Luo   |
| Supervised by:     | Nick Peng |





A.1 -6dB Bandwidth

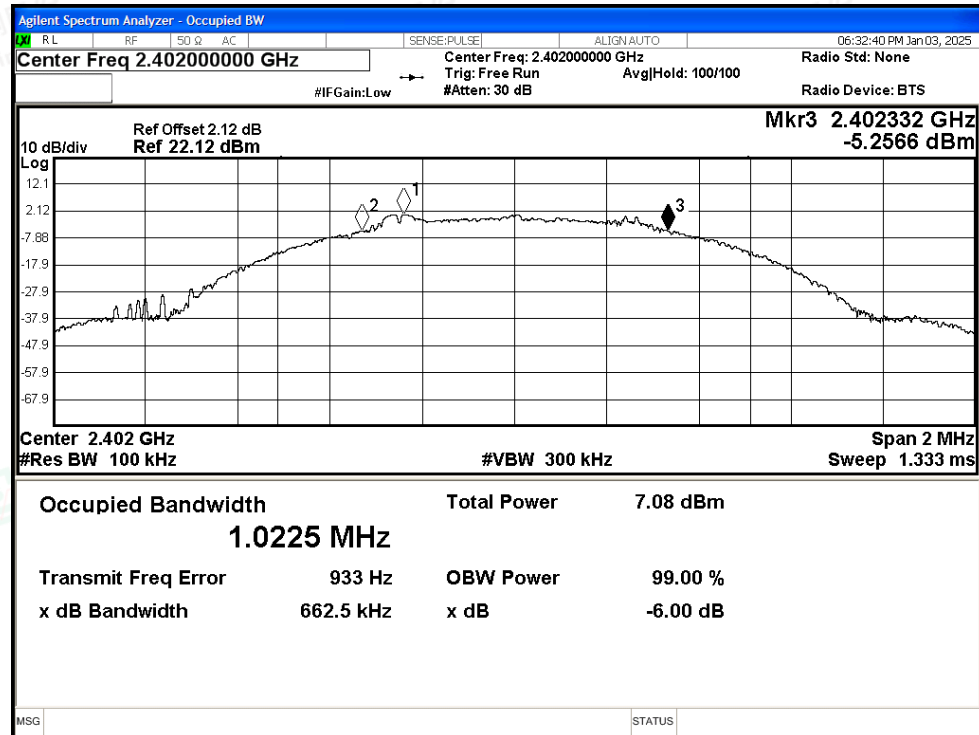
| Condition | Mode   | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|--------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | 0.662                 | >=0.5                       | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | 0.65                  | >=0.5                       | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | 0.652                 | >=0.5                       | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | 1.156                 | >=0.5                       | Pass    |
| NVNT      | BLE 2M | 2440            | Ant1    | 1.111                 | >=0.5                       | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | 1.163                 | >=0.5                       | Pass    |



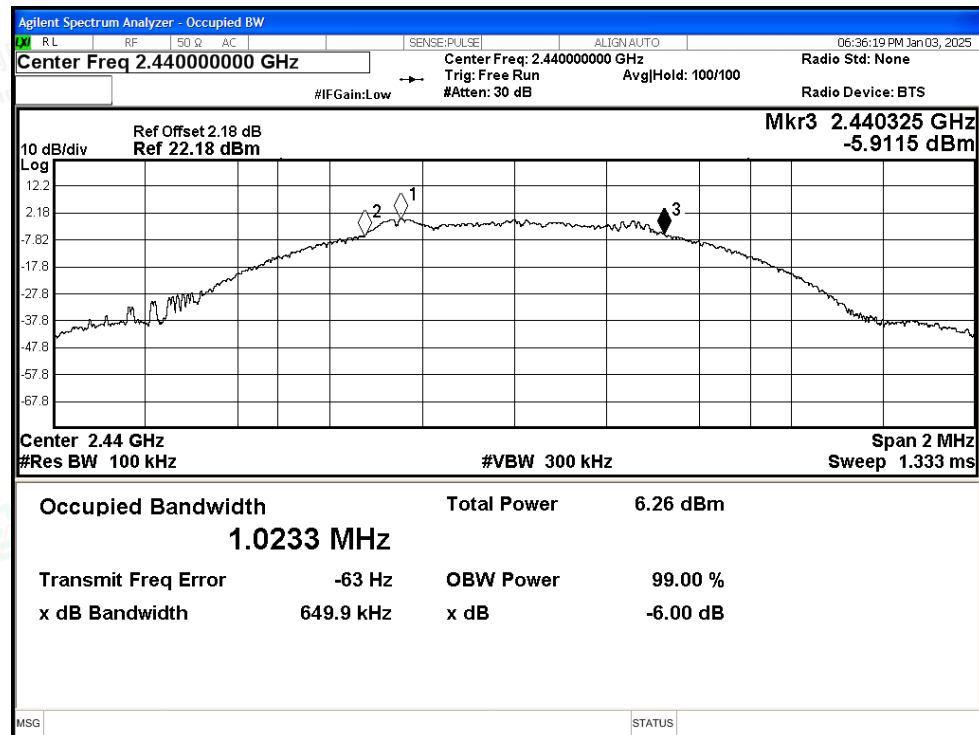


## Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1

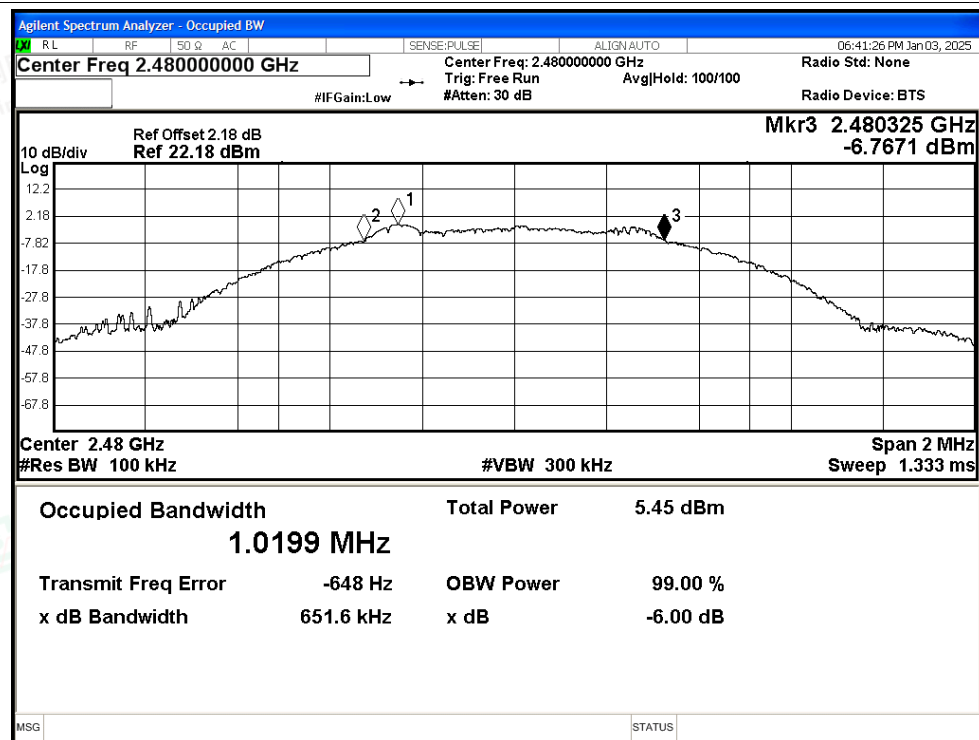


-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1

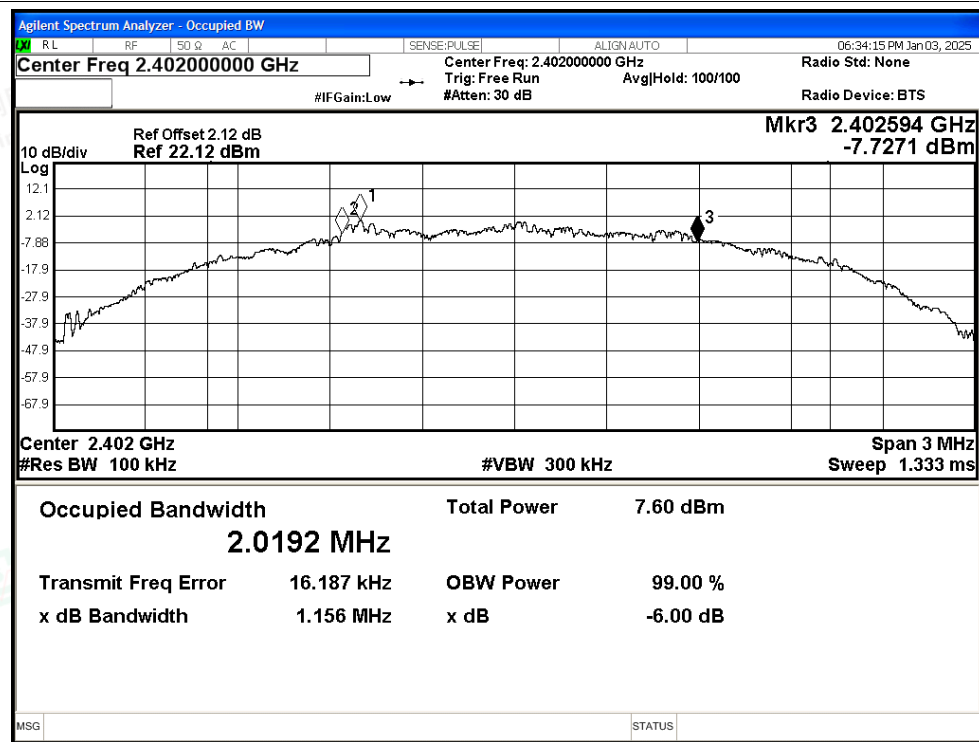




## -6dB Bandwidth NVNT BLE 1M 2480MHz Ant1

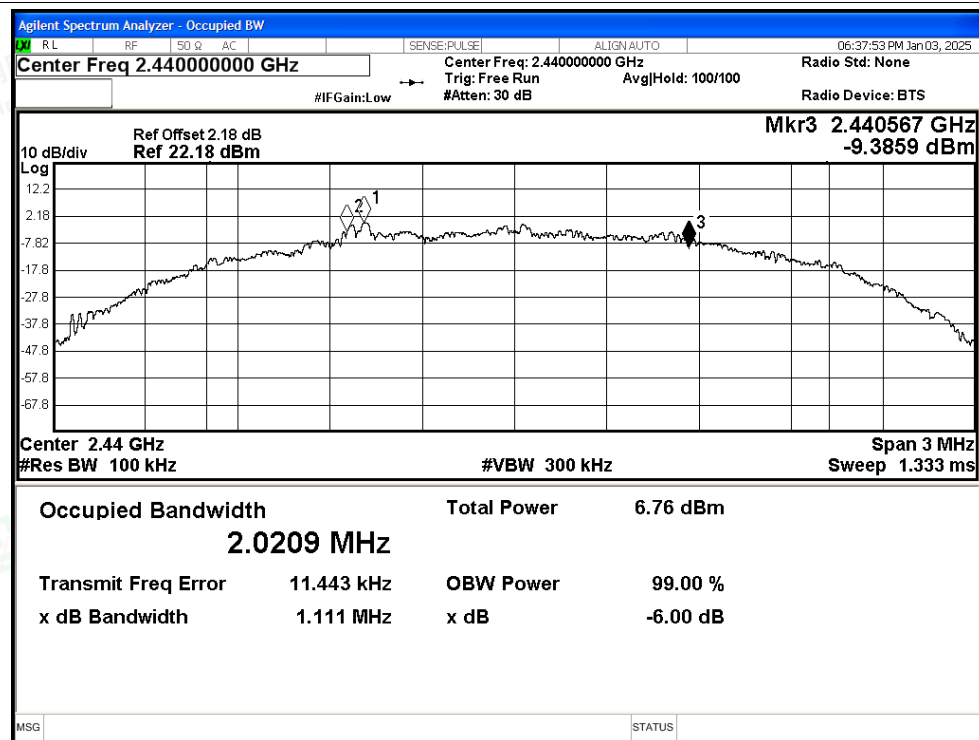


## -6dB Bandwidth NVNT BLE 2M 2402MHz Ant1

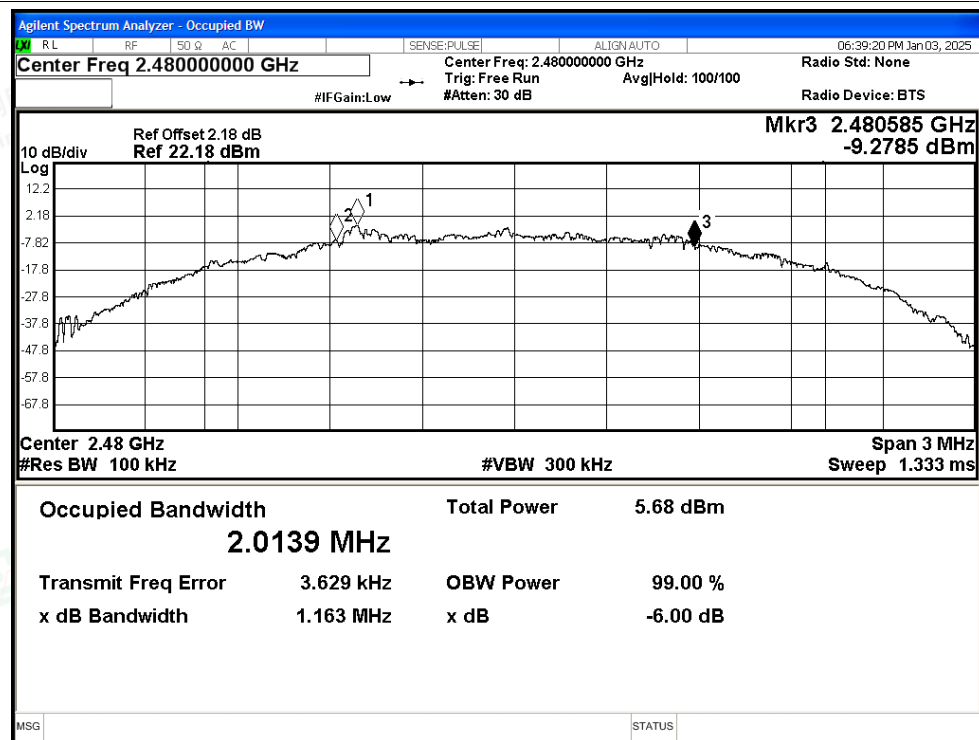




## -6dB Bandwidth NVNT BLE 2M 2440MHz Ant1



## -6dB Bandwidth NVNT BLE 2M 2480MHz Ant1





## A.2 Maximum Peak Conducted Output Power

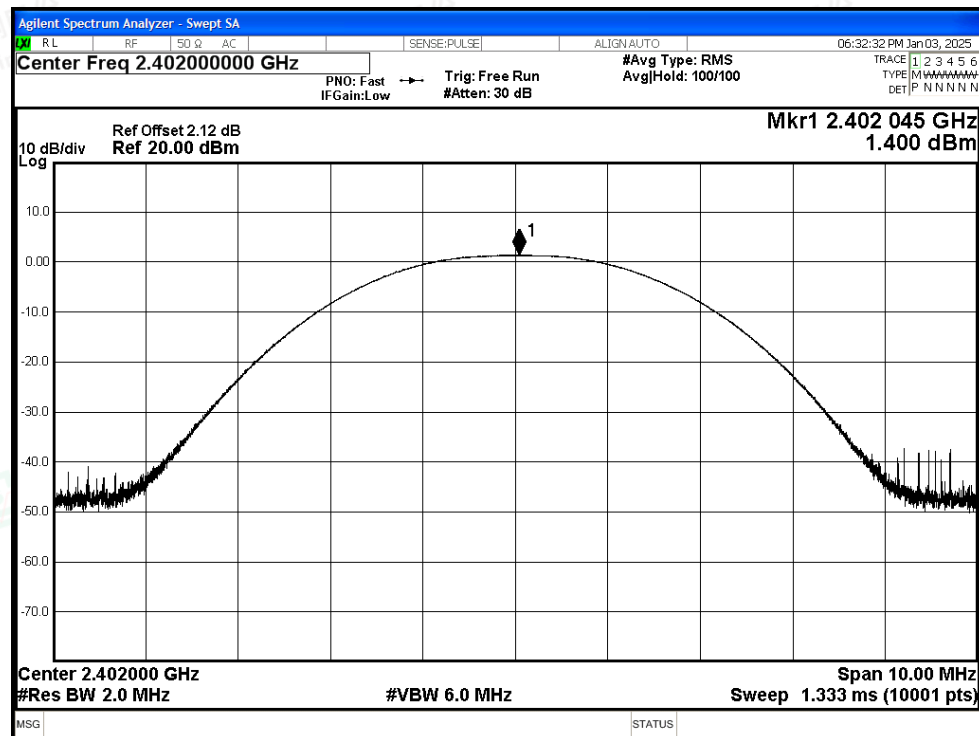
| Condition | Mode   | Frequency (MHz) | Antenna | Conducted Power (dBm) | Limit (dBm) | Verdict |
|-----------|--------|-----------------|---------|-----------------------|-------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | 1.40                  | 30          | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | 0.42                  | 30          | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | -0.51                 | 30          | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | 1.22                  | 30          | Pass    |
| NVNT      | BLE 2M | 2440            | Ant1    | 0.38                  | 30          | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | -0.67                 | 30          | Pass    |



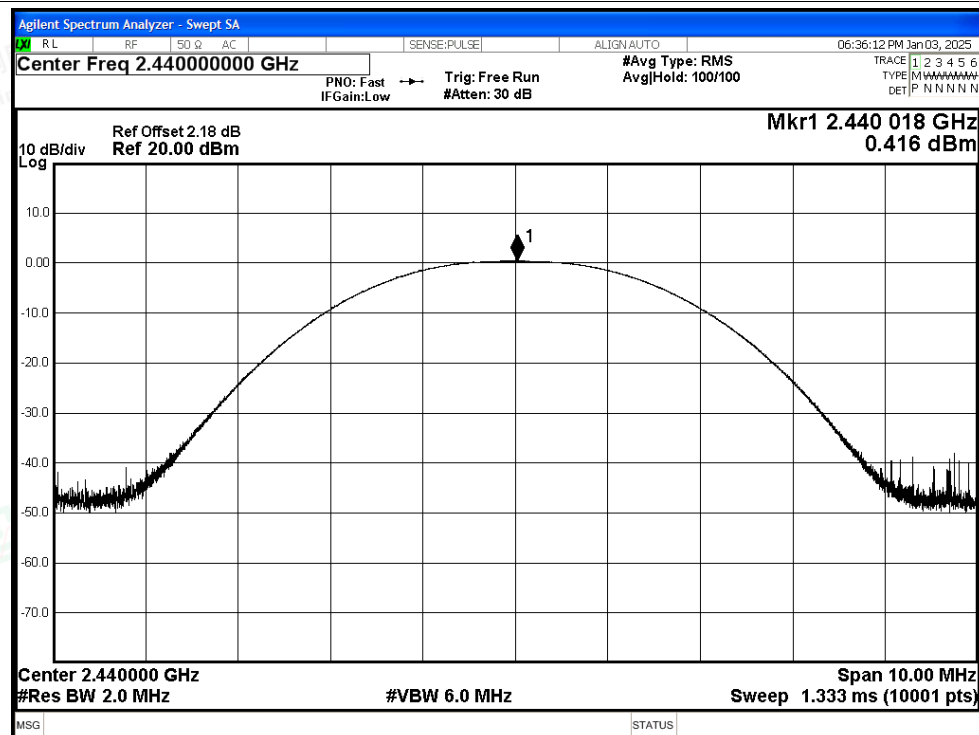


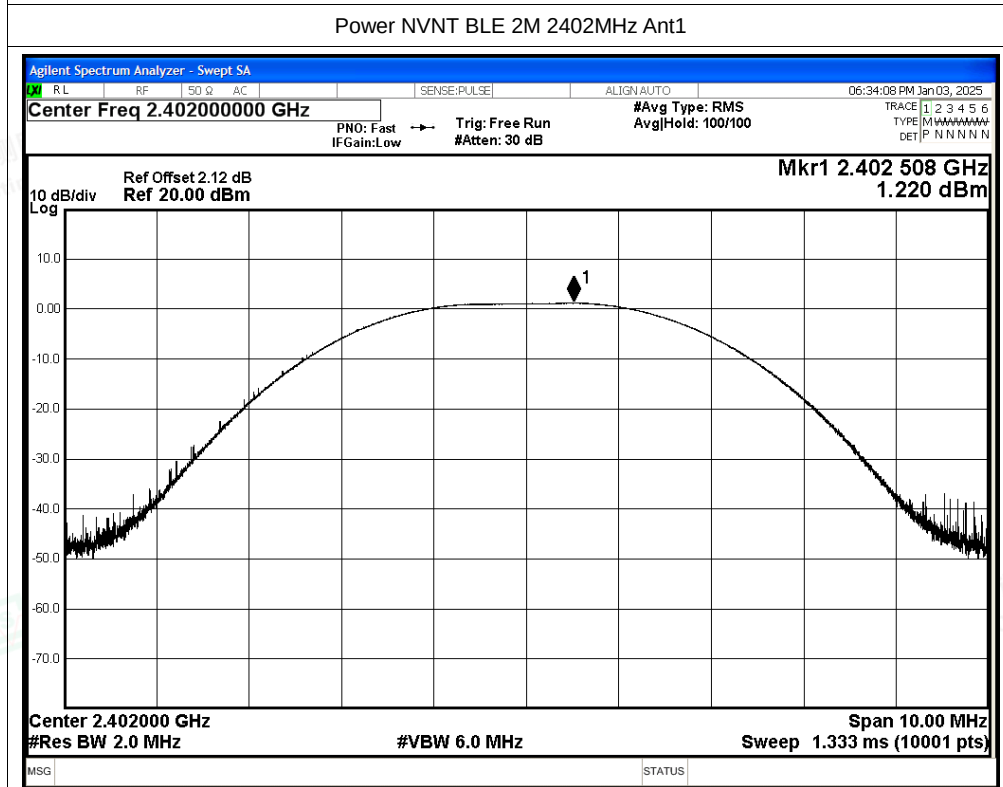
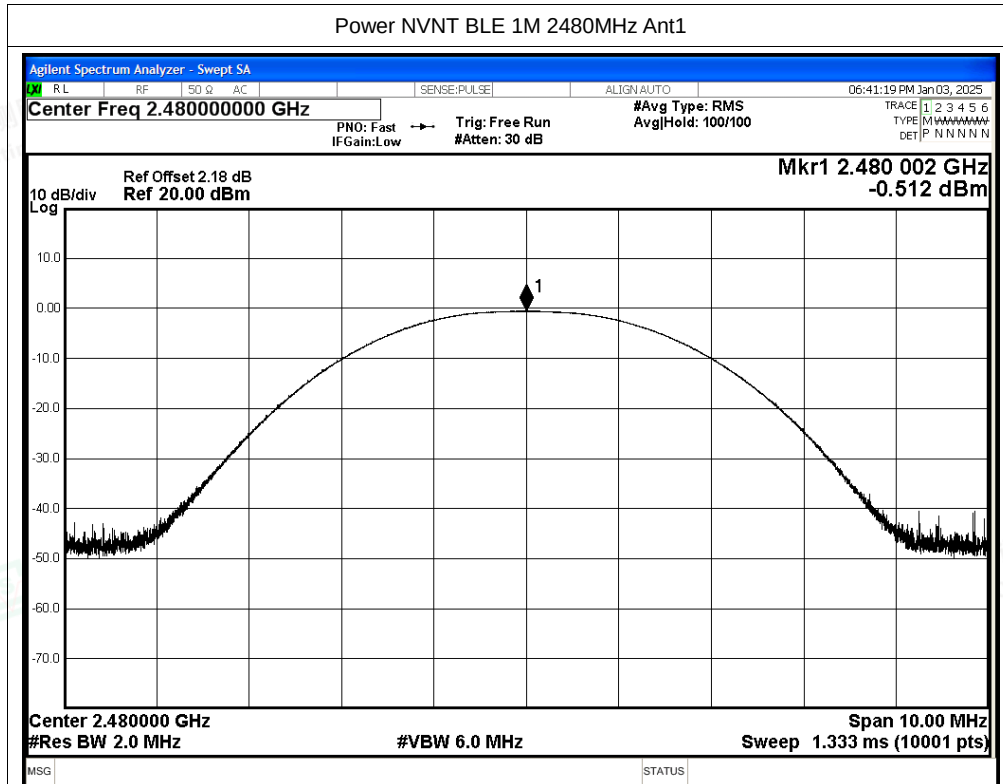
## Test Graphs

Power NVNT BLE 1M 2402MHz Ant1

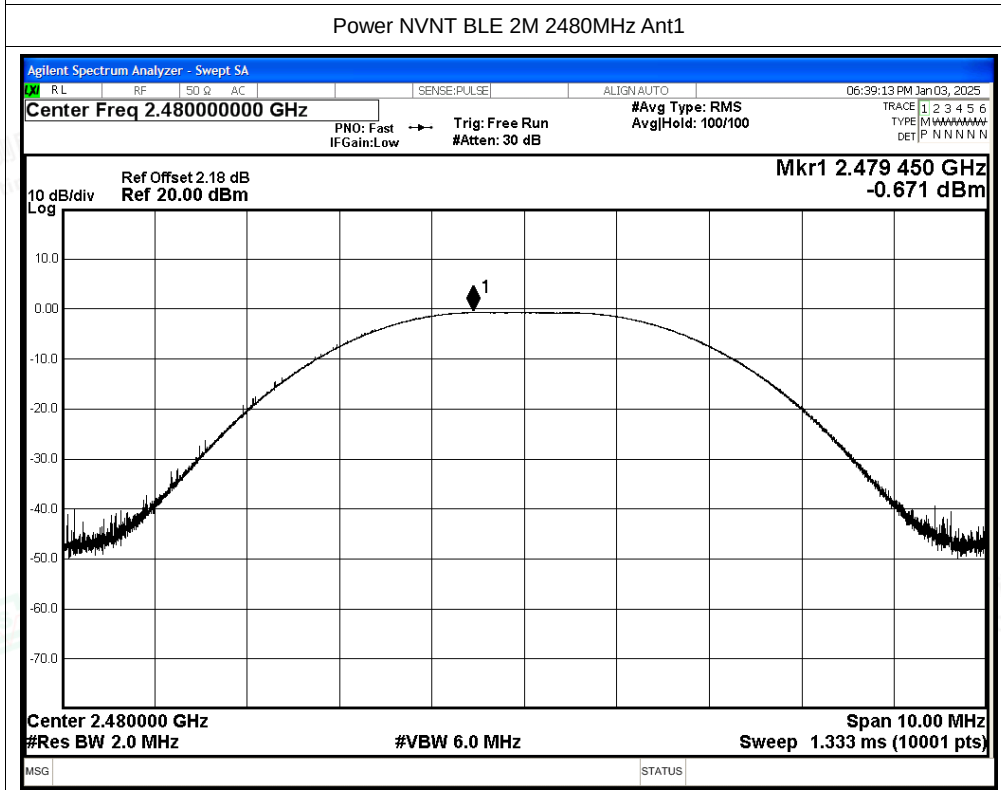
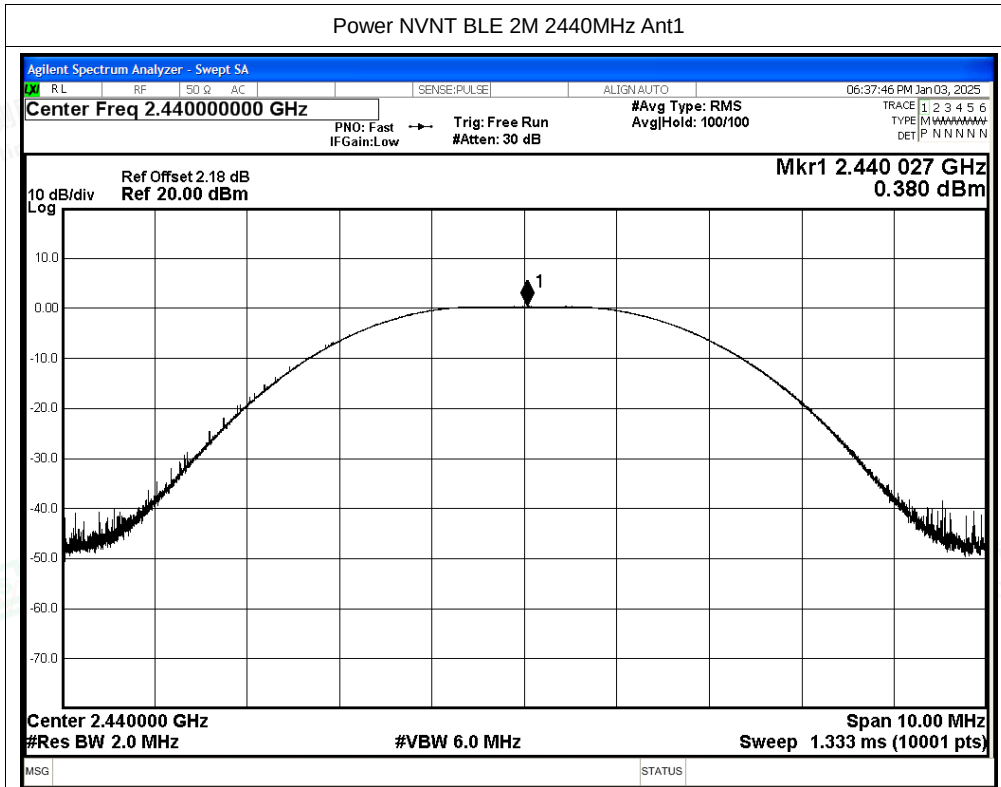


Power NVNT BLE 1M 2440MHz Ant1











### A.3 Maximum Power Spectral Density Level

| Condition | Mode   | Frequency (MHz) | Antenna | Conducted PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|-----------|--------|-----------------|---------|--------------------------|------------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | -15.36                   | 8                | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | -16.22                   | 8                | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | -17.04                   | 8                | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | -18.4                    | 8                | Pass    |
| NVNT      | BLE 2M | 2440            | Ant1    | -19.41                   | 8                | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | -20.65                   | 8                | Pass    |

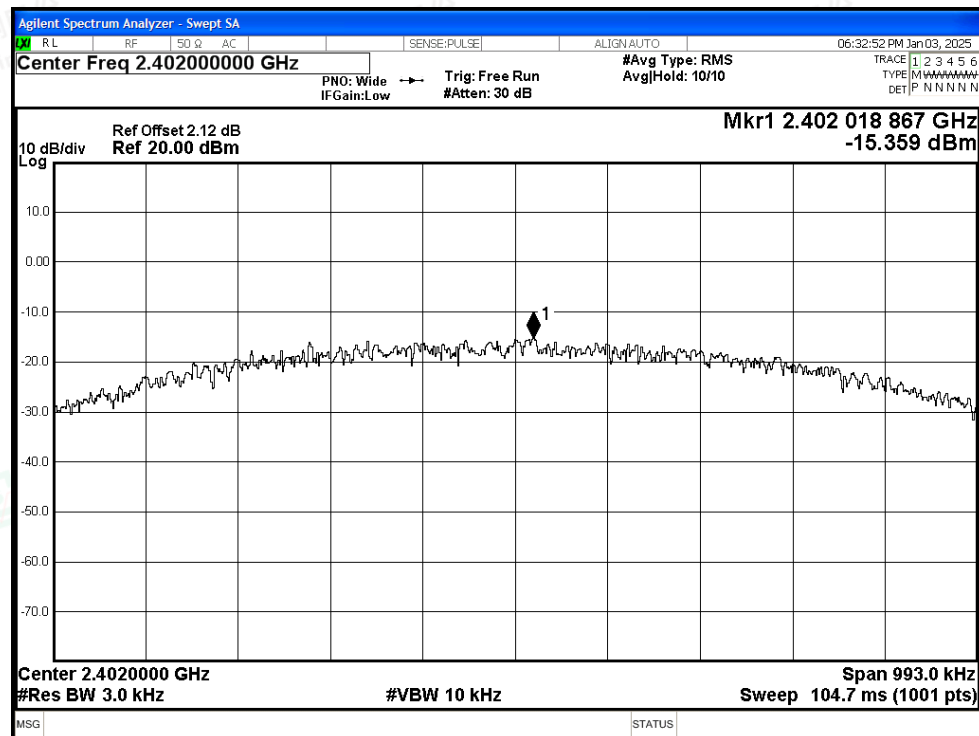


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Scan code to check authenticity

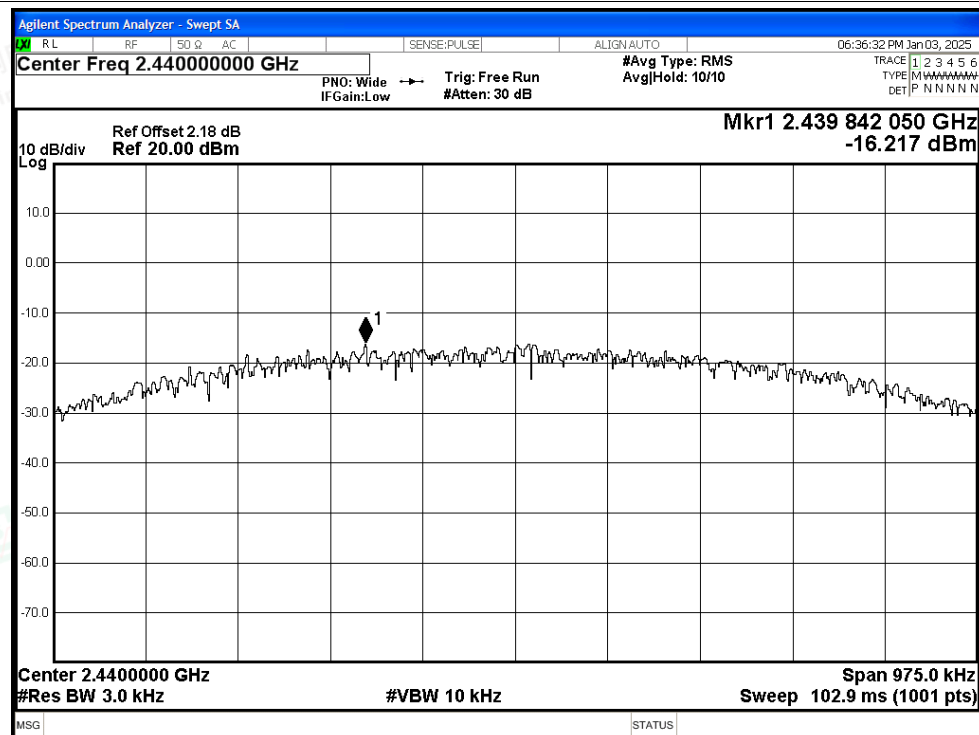


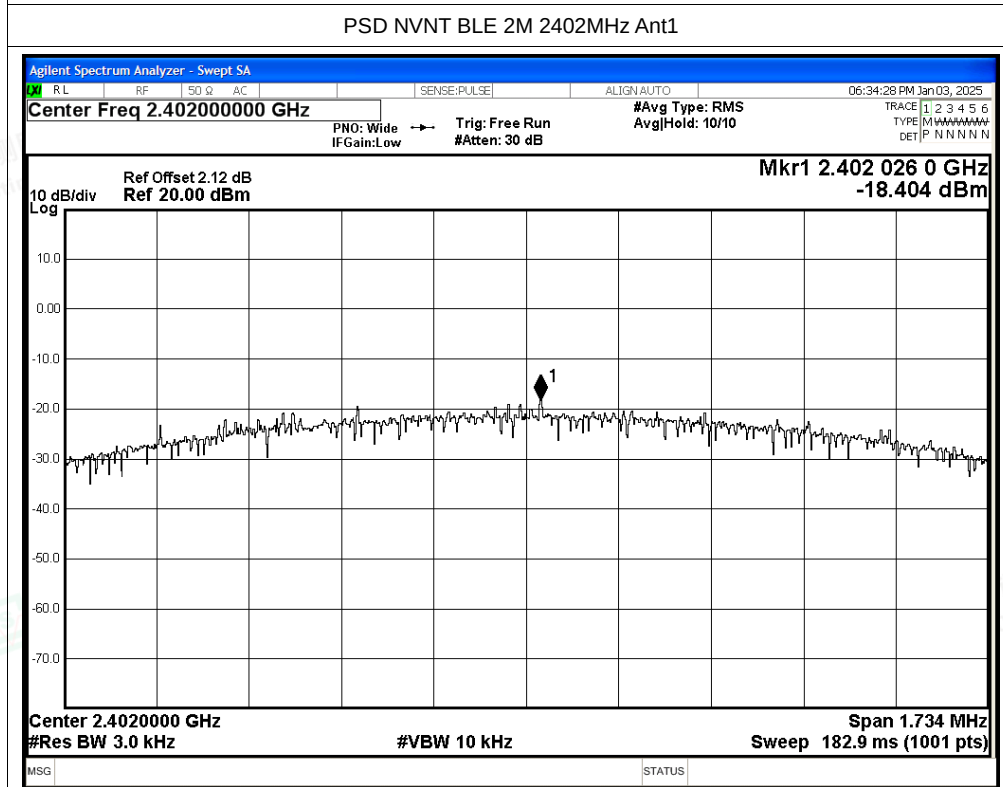
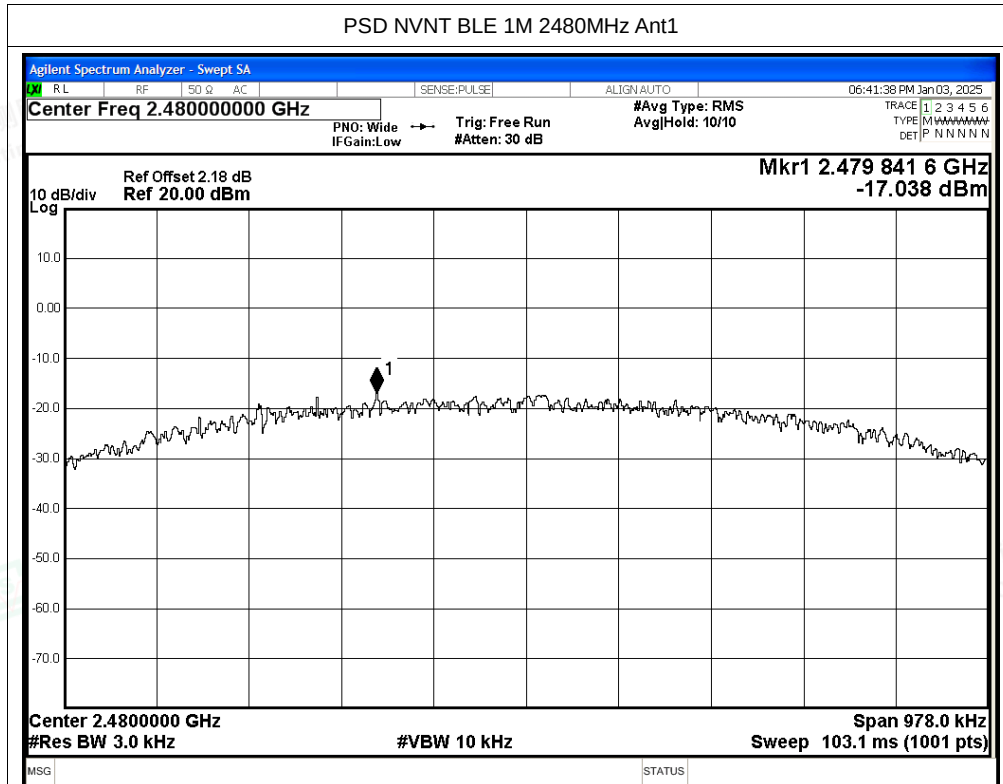
## Test Graphs

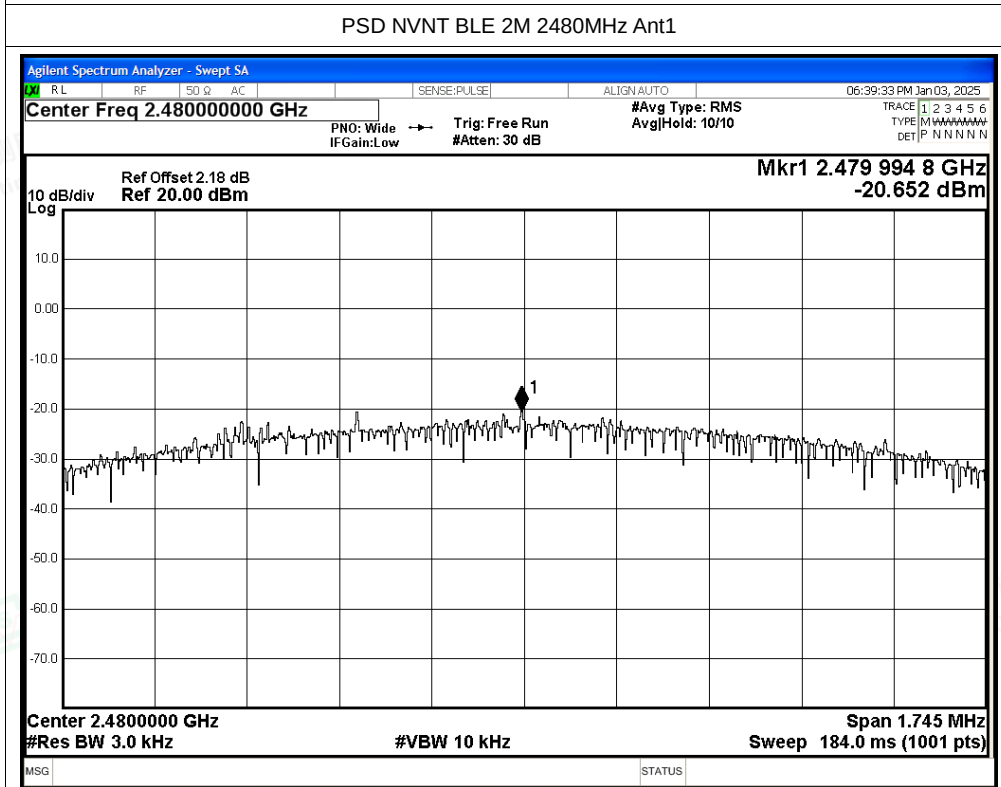
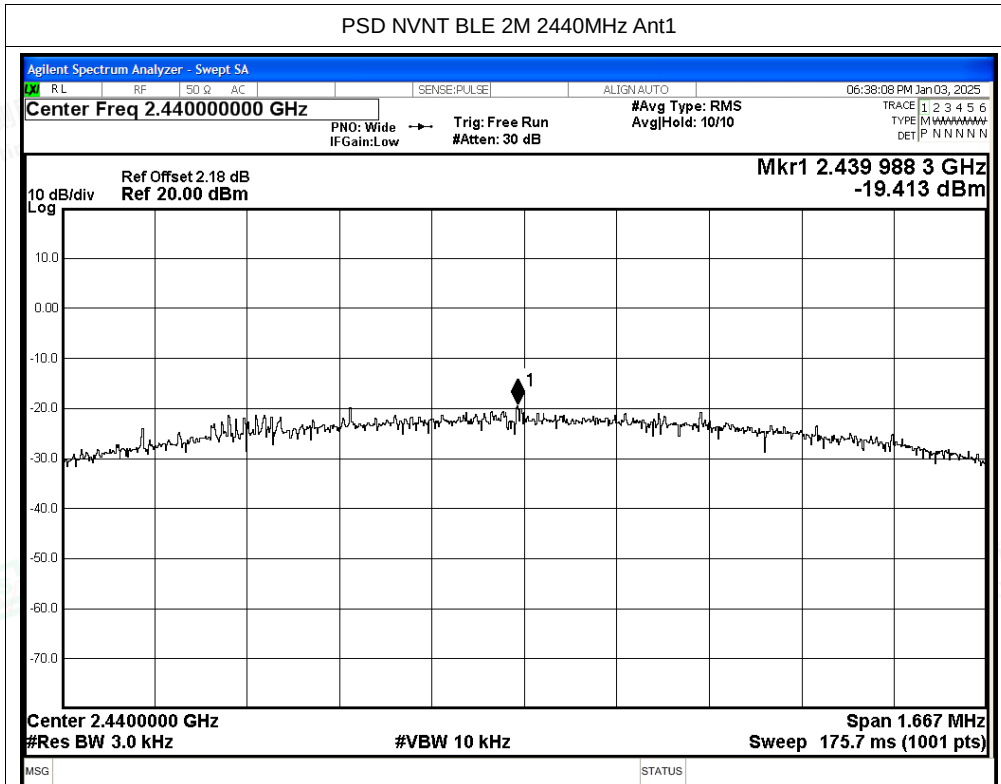
PSD NVNT BLE 1M 2402MHz Ant1



PSD NVNT BLE 1M 2440MHz Ant1









### A.4 Band Edge

| Condition | Mode   | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | -56.38          | -20         | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | -55.57          | -20         | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | -44.7           | -20         | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | -55.21          | -20         | Pass    |

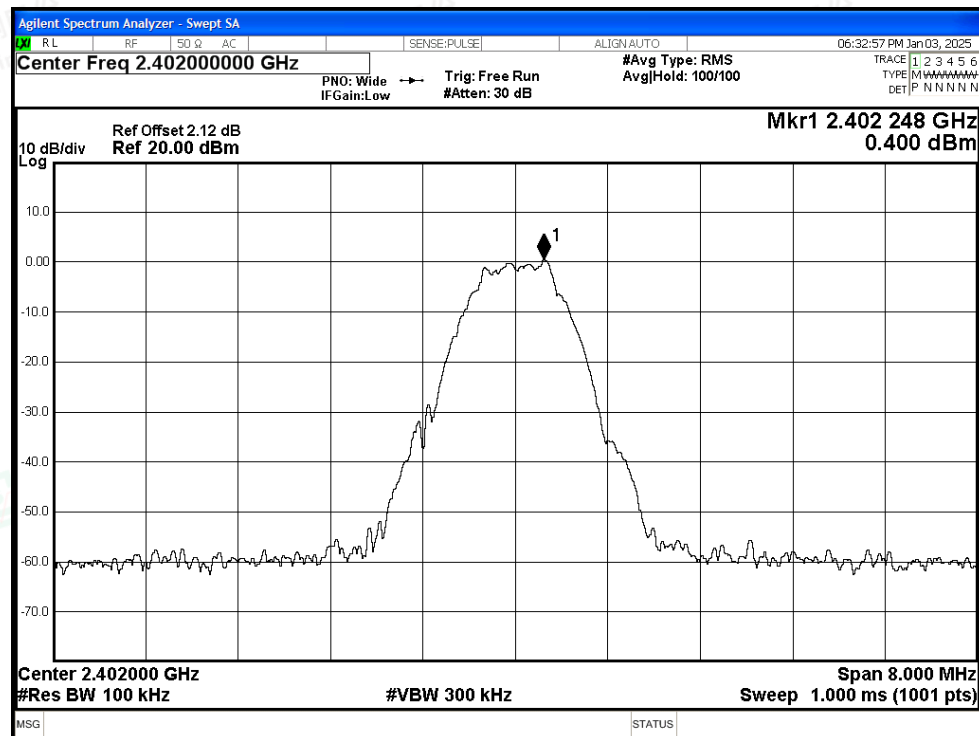


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Scan code to check authenticity

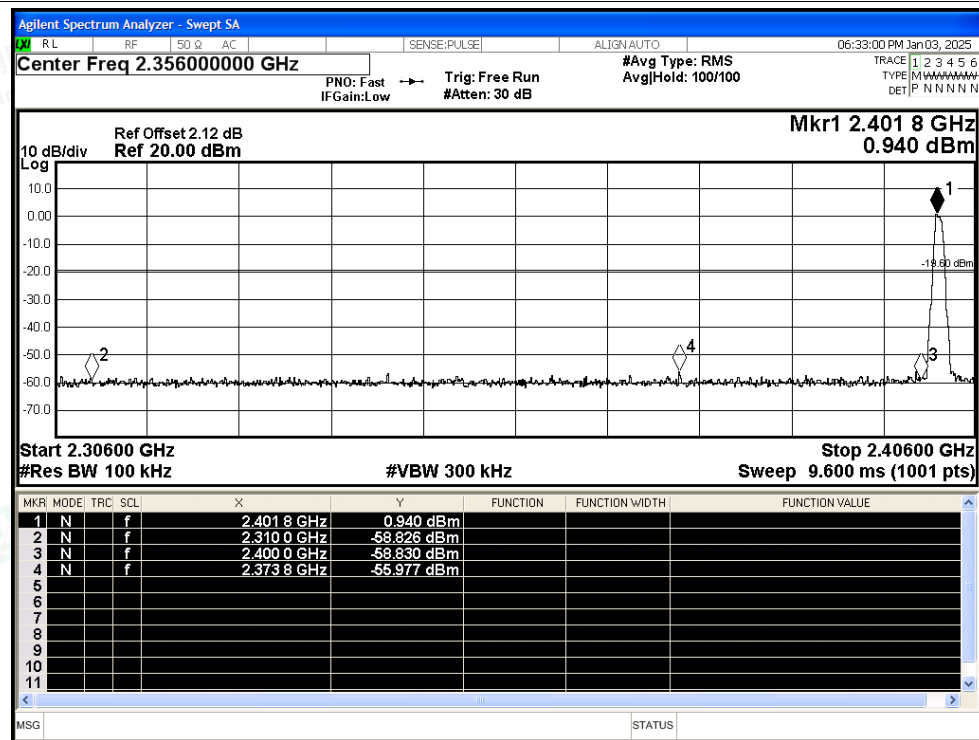


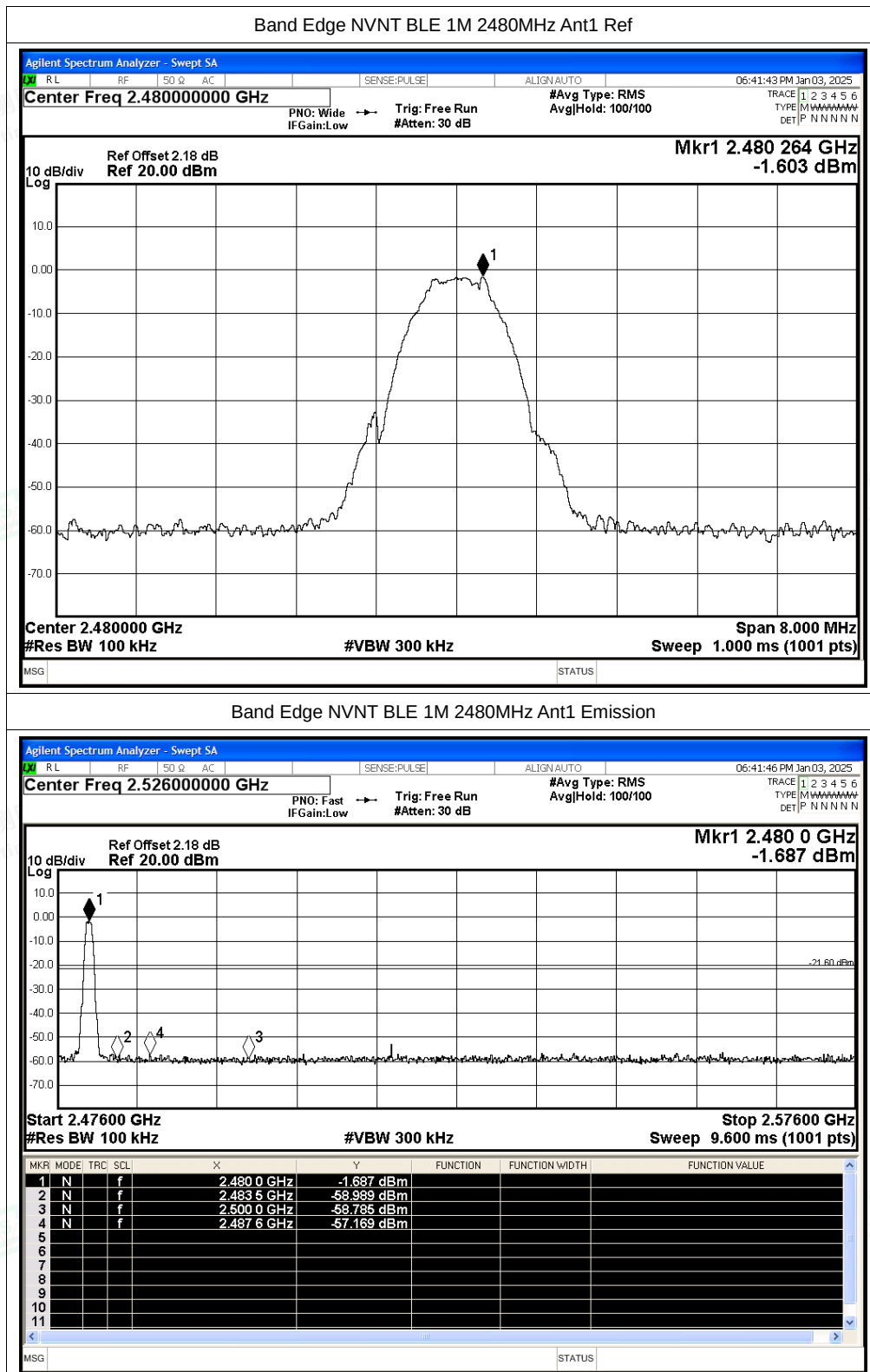
## Test Graphs

## Band Edge NVNT BLE 1M 2402MHz Ant1 Ref

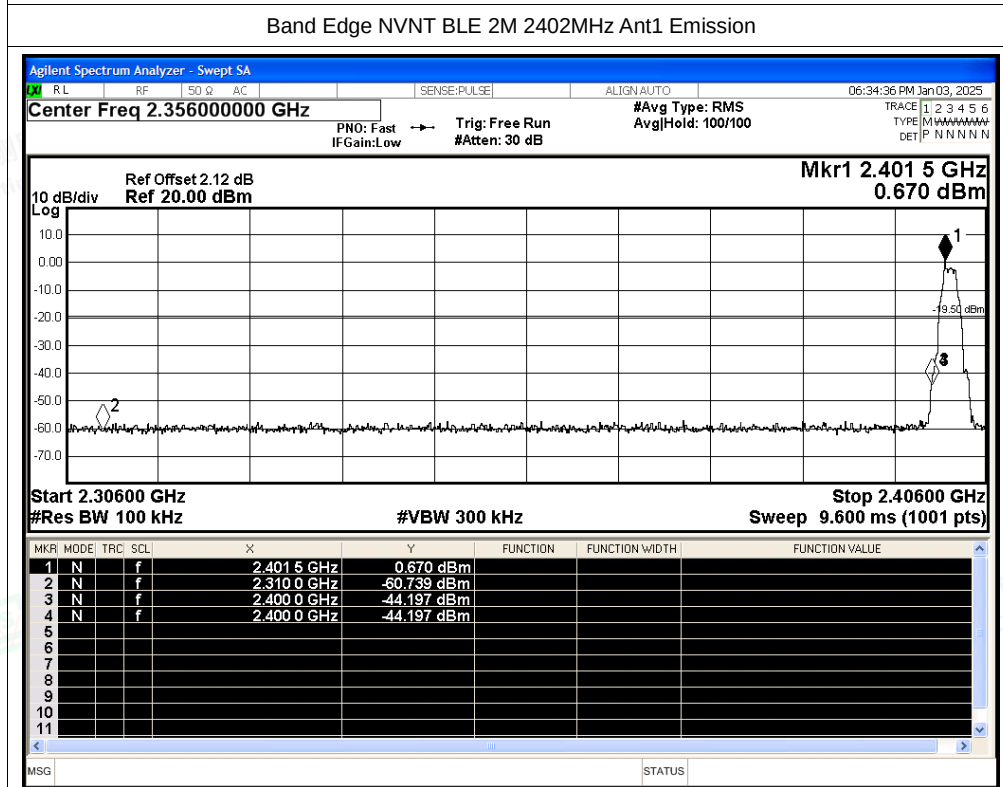
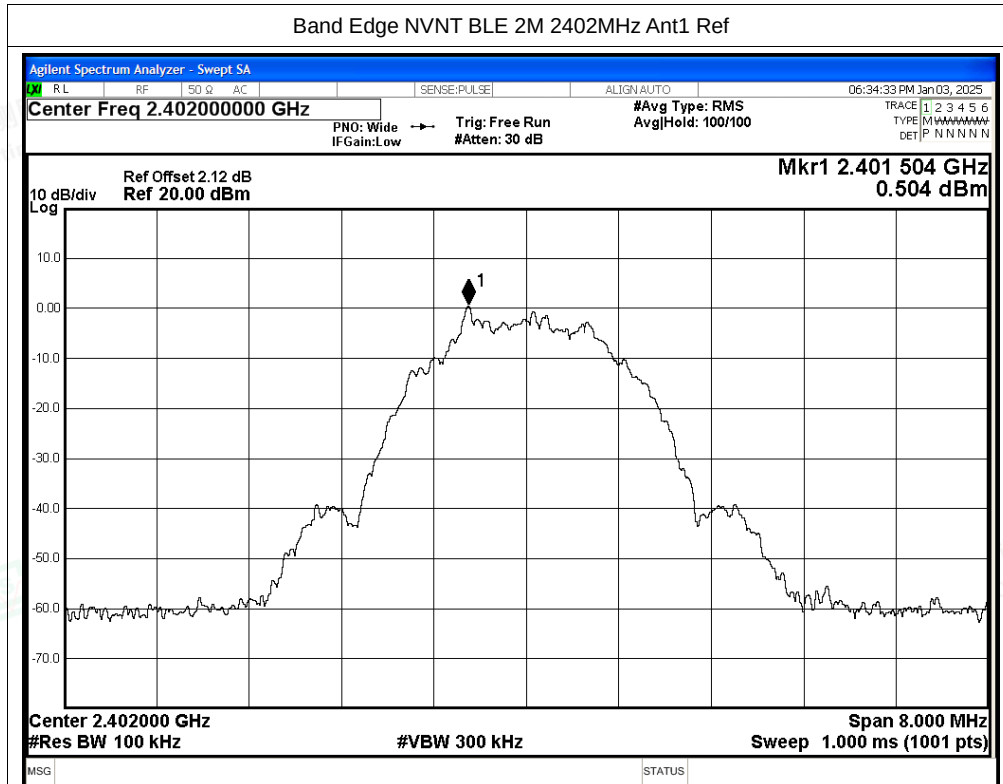


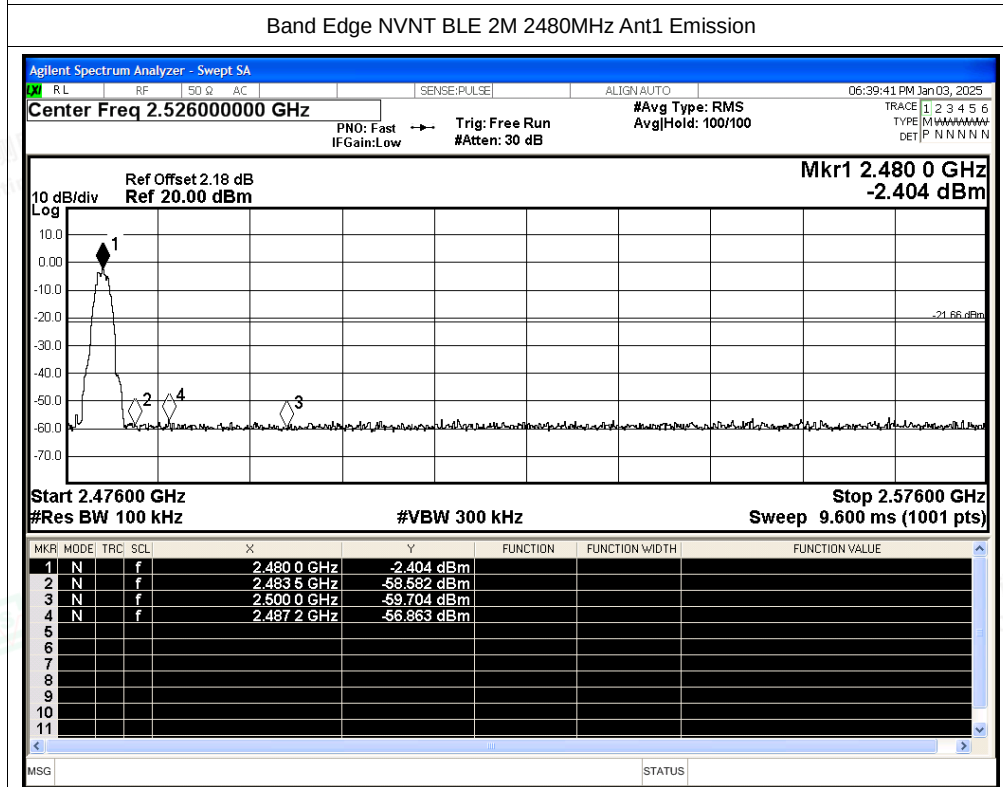
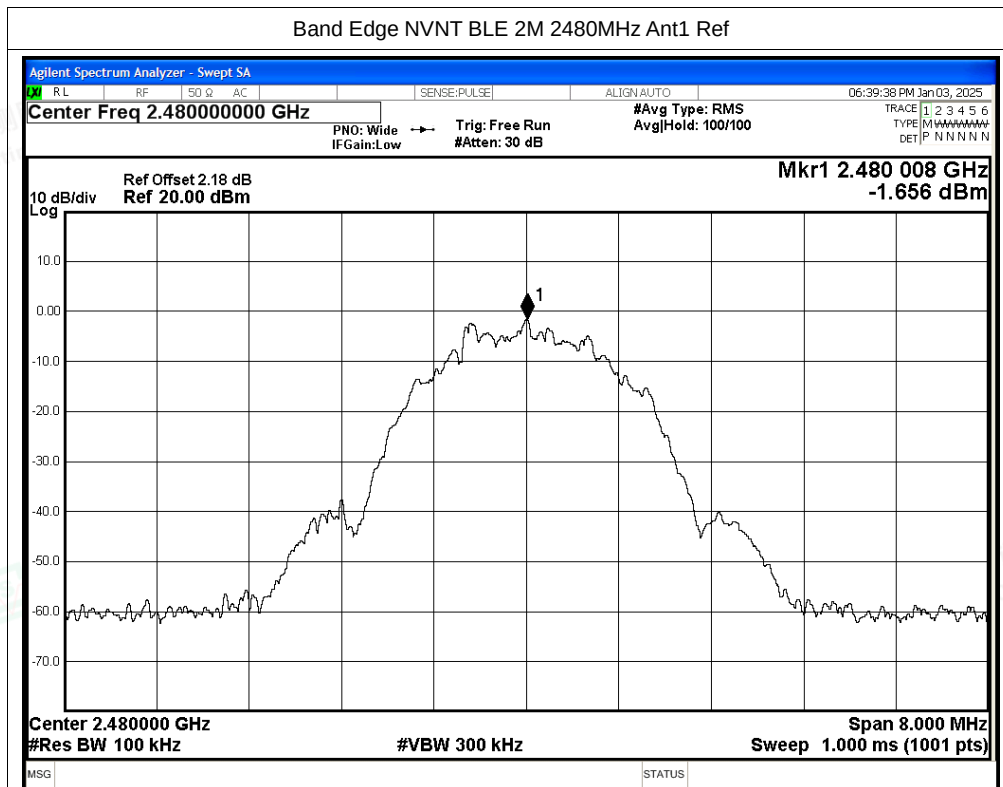
## Band Edge NVNT BLE 1M 2402MHz Ant1 Emission













### A.5 Conducted RF Spurious Emission

| Condition | Mode   | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | -52.6           | -20         | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | -54.77          | -20         | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | -54.71          | -20         | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | -55.97          | -20         | Pass    |
| NVNT      | BLE 2M | 2440            | Ant1    | -54.92          | -20         | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | -54.59          | -20         | Pass    |

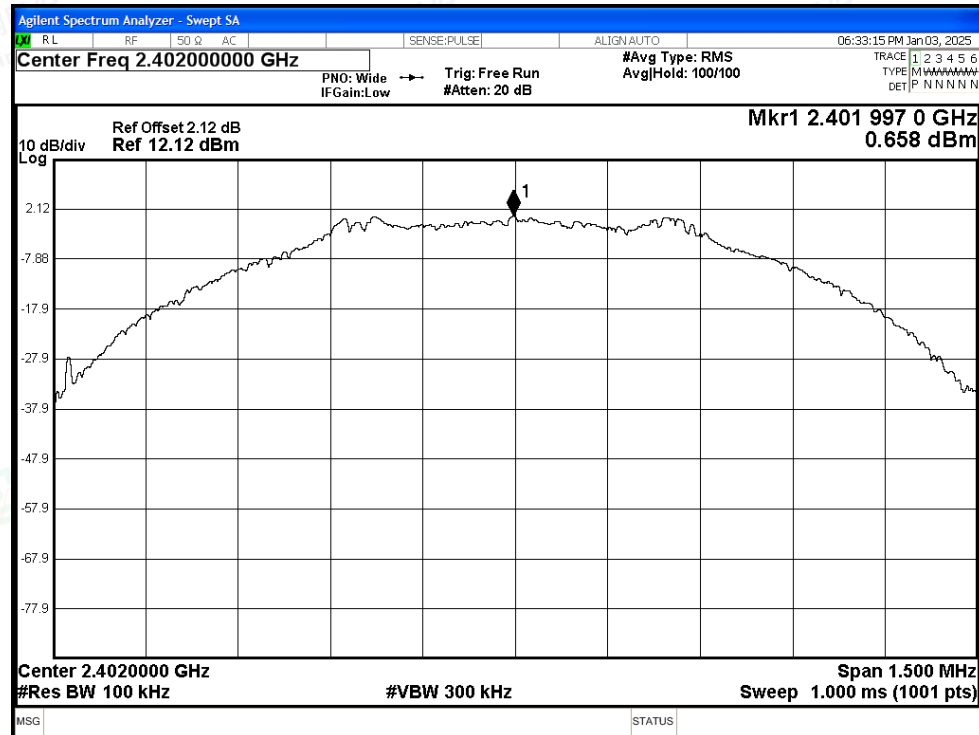


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Scan code to check authenticity

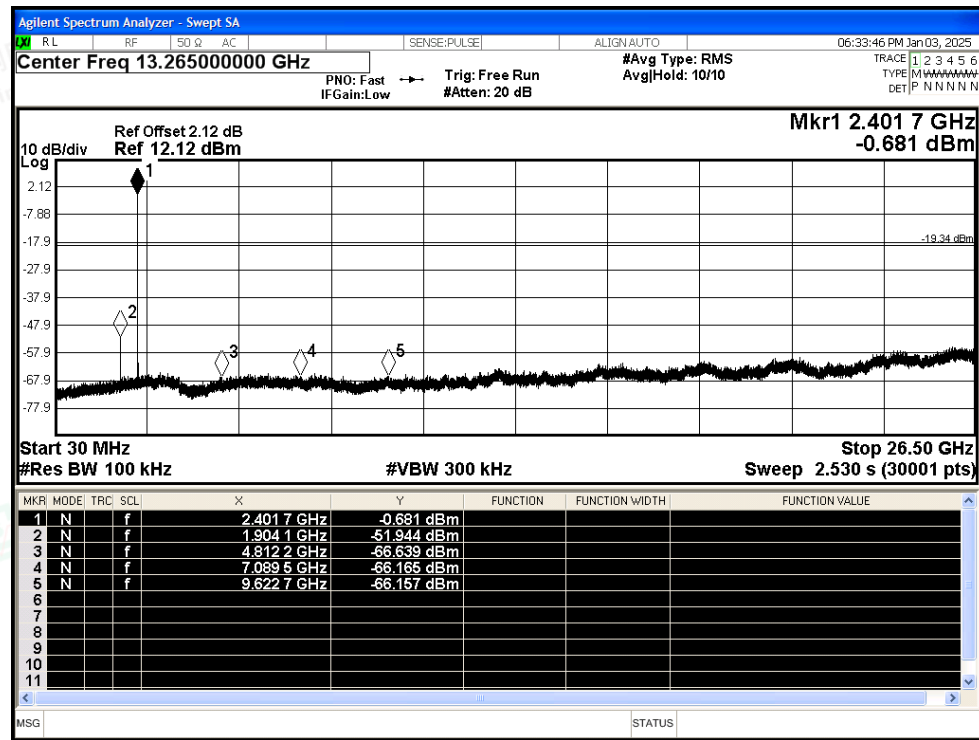


## Test Graphs

## Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref

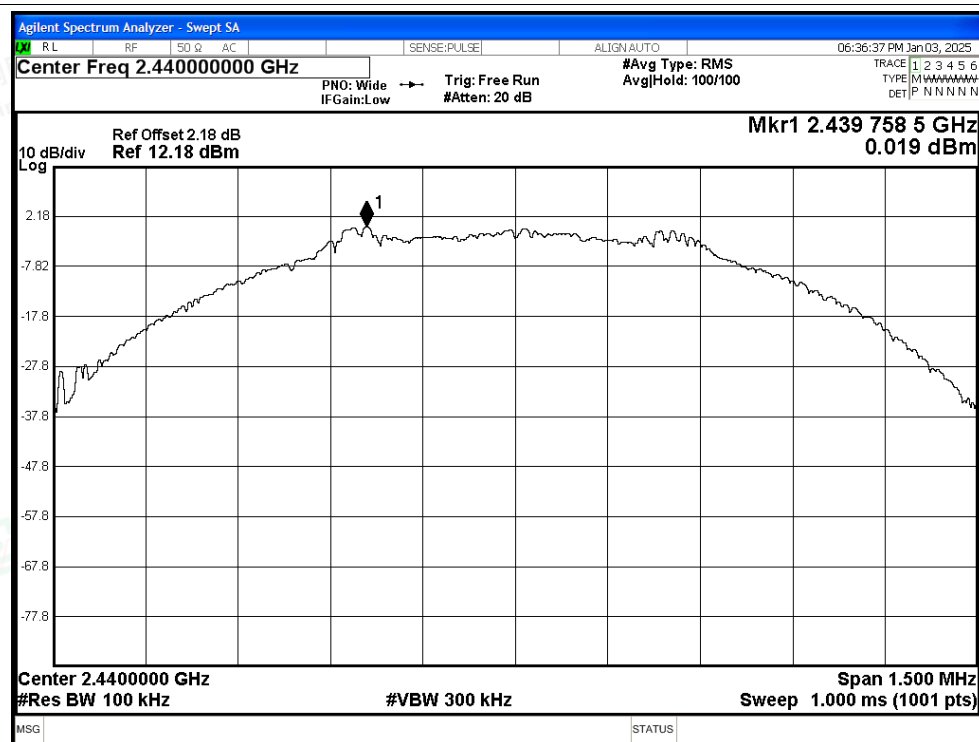


## Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission

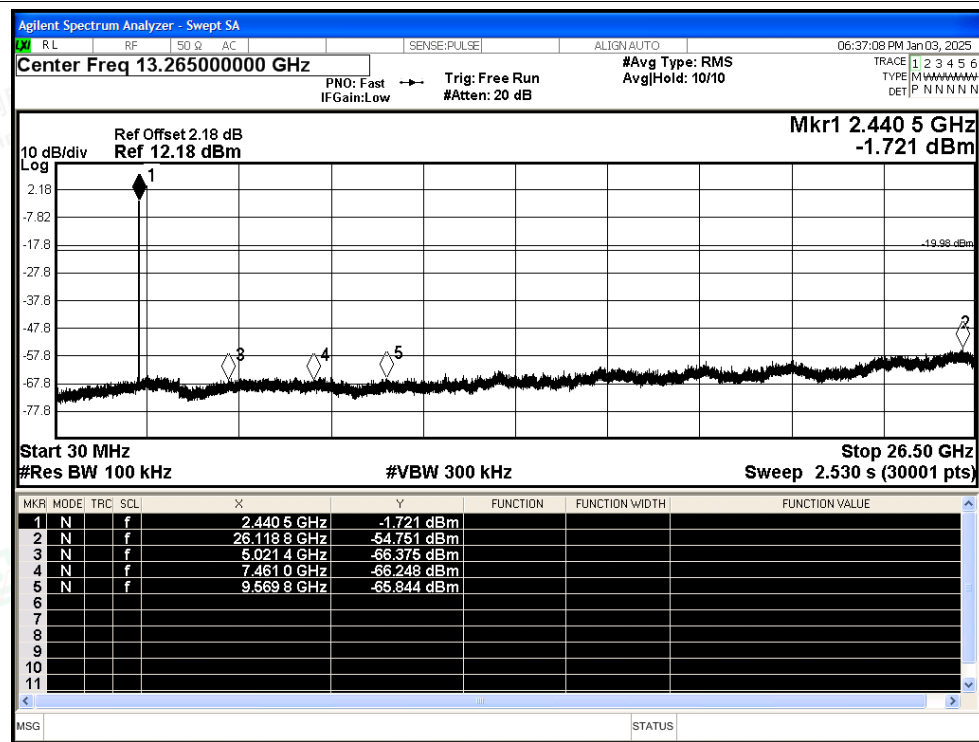


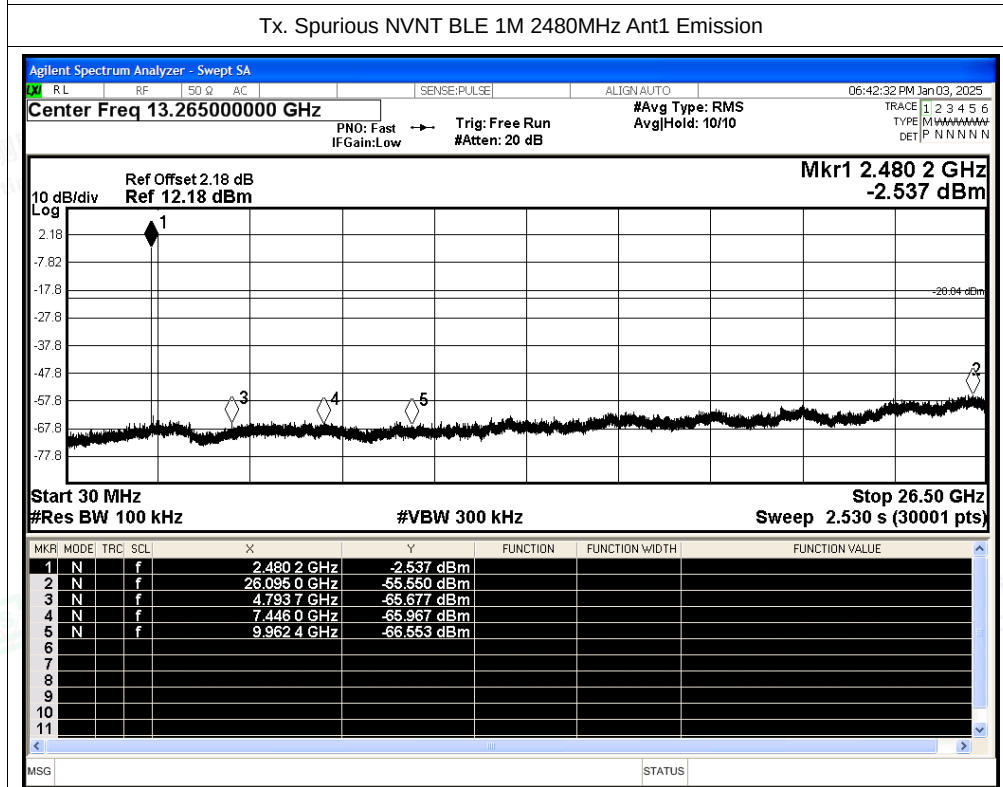
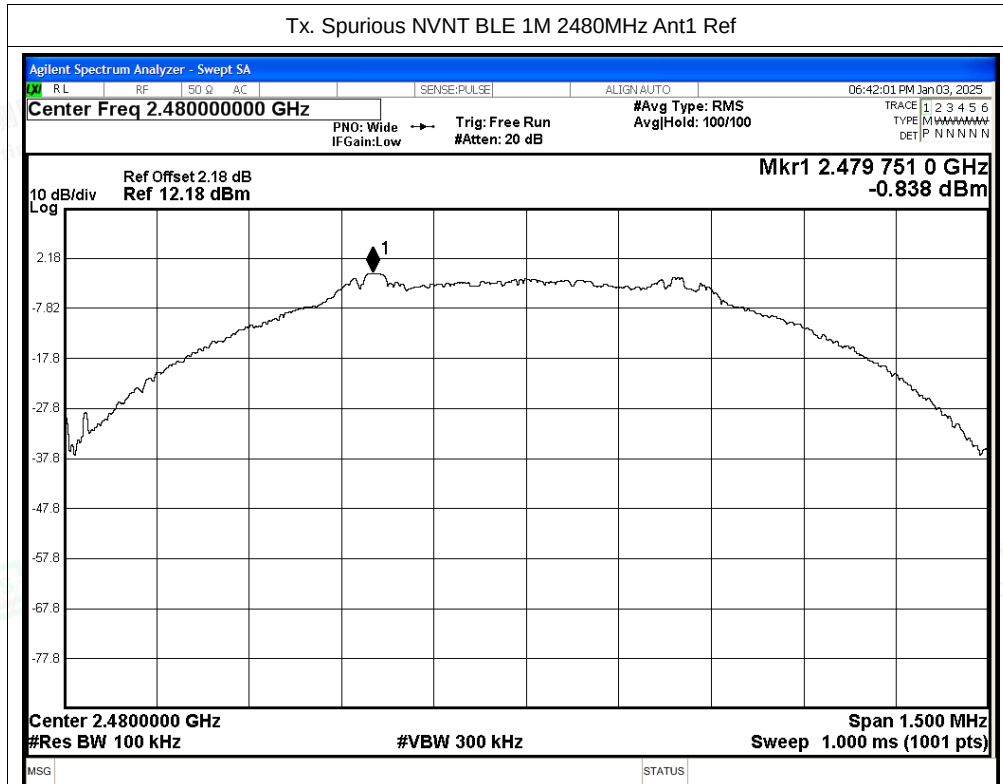


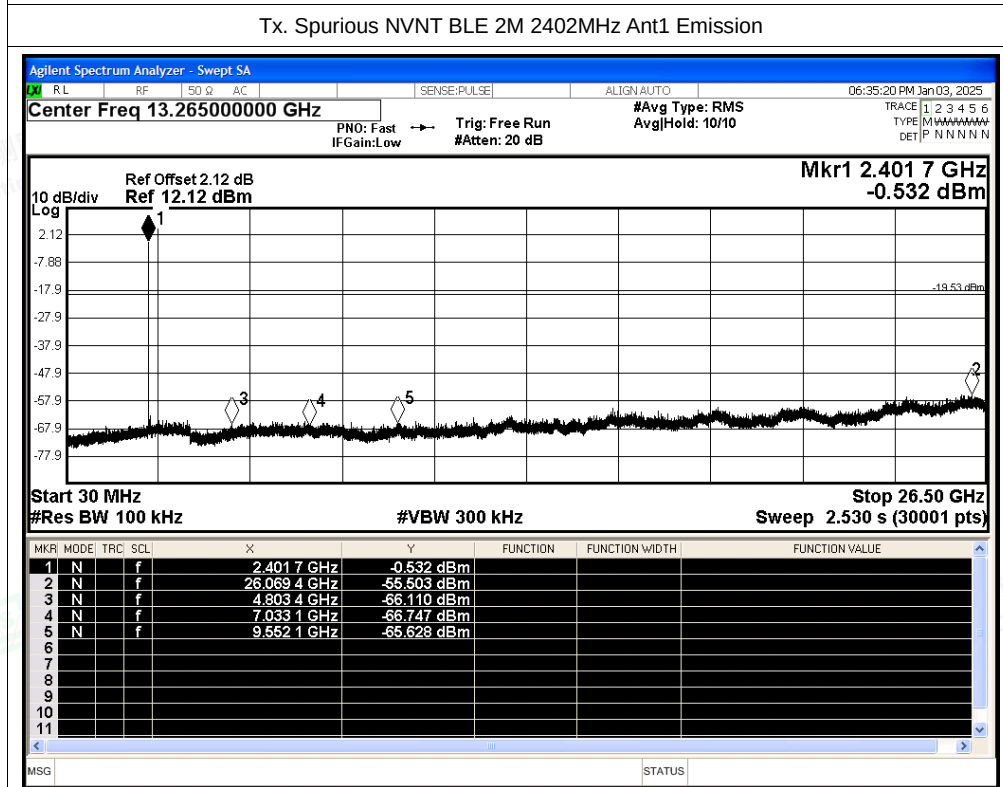
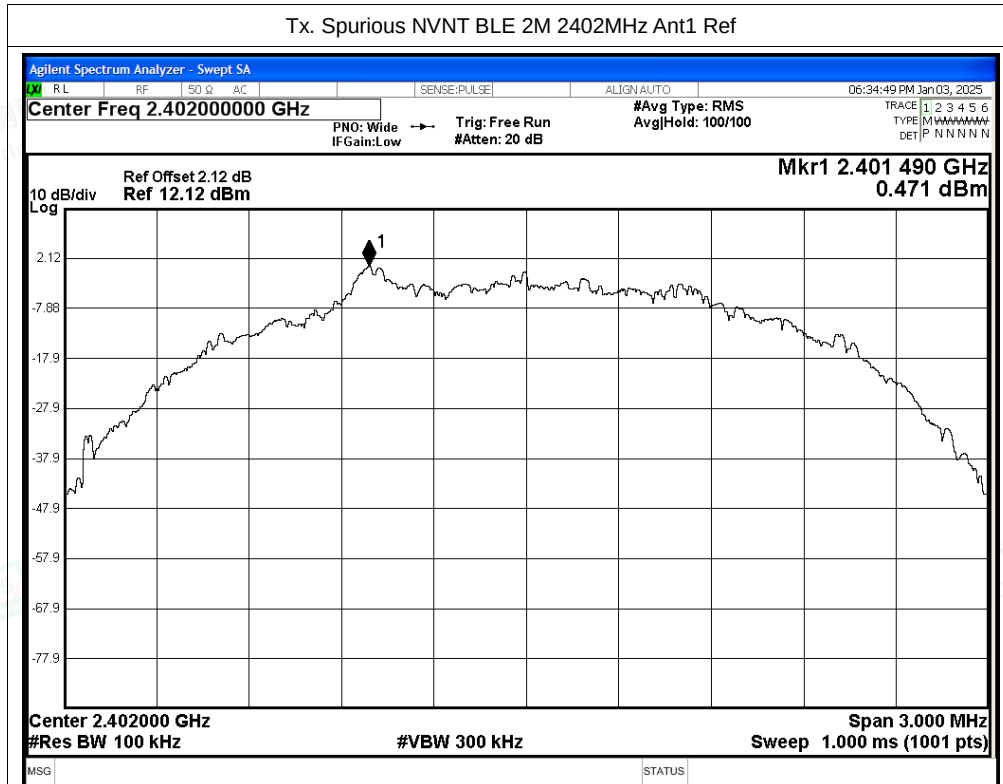
## Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



## Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission

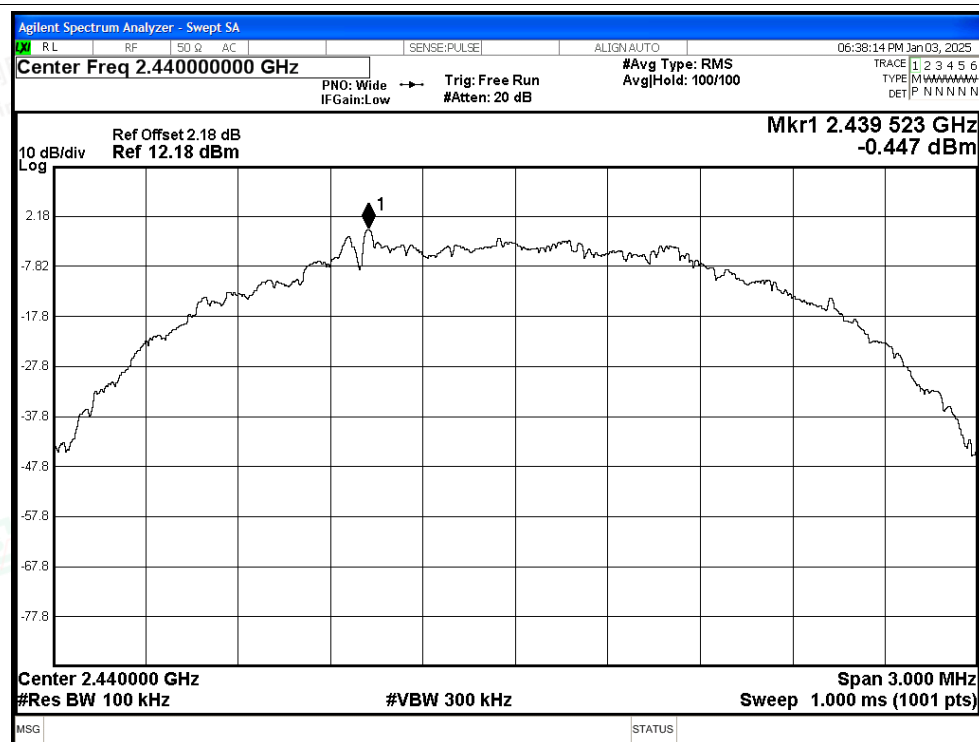




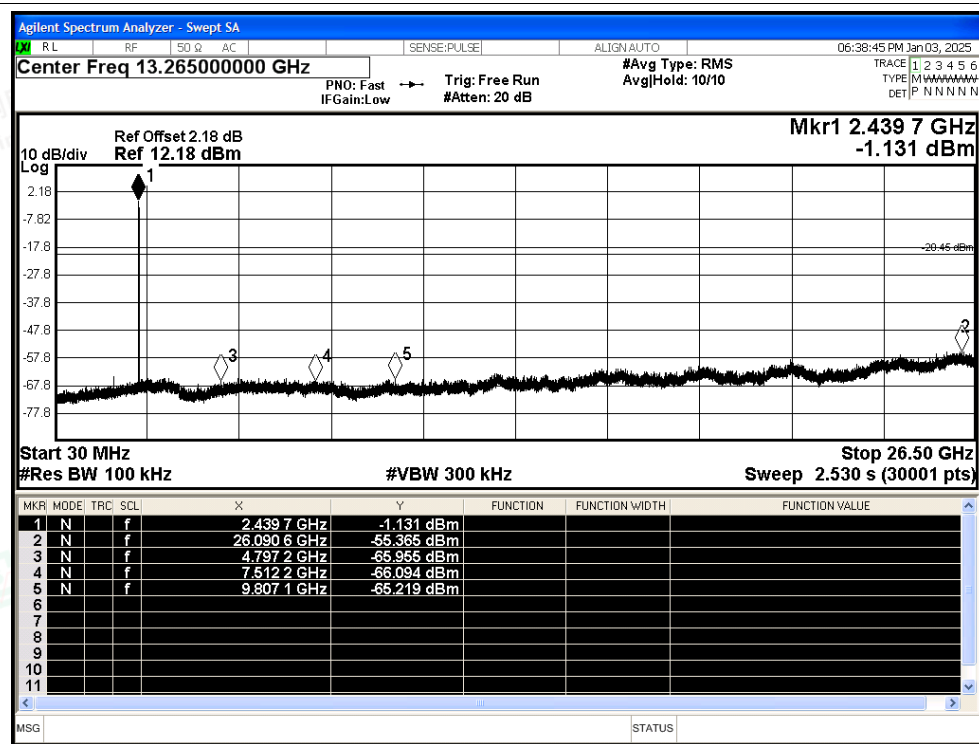




## Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Ref



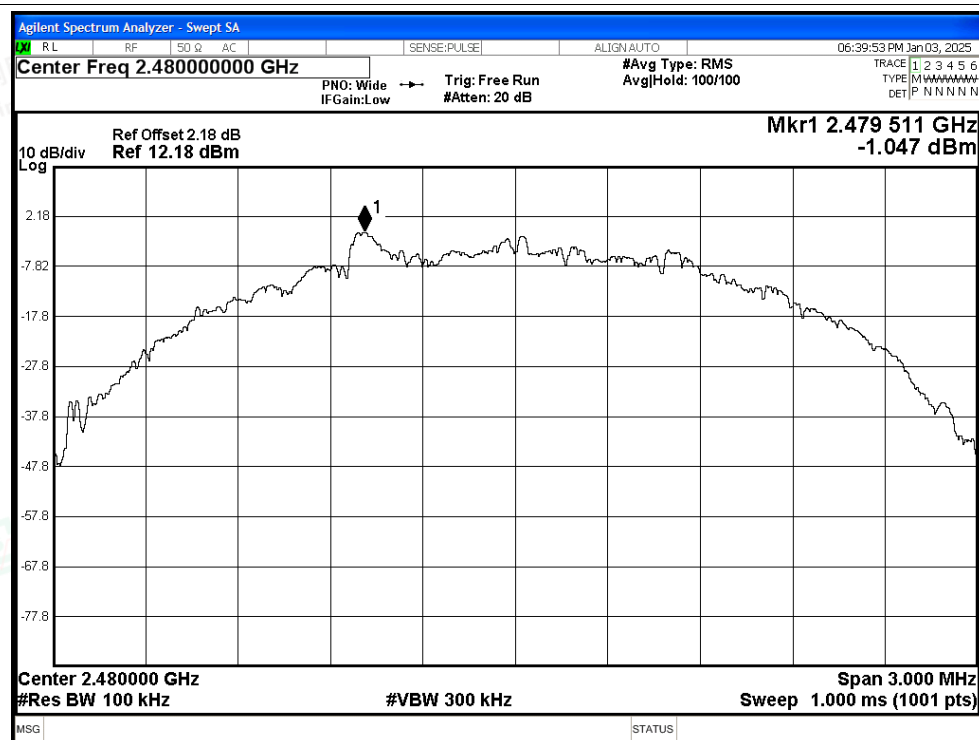
## Tx. Spurious NVNT BLE 2M 2440MHz Ant1 Emission



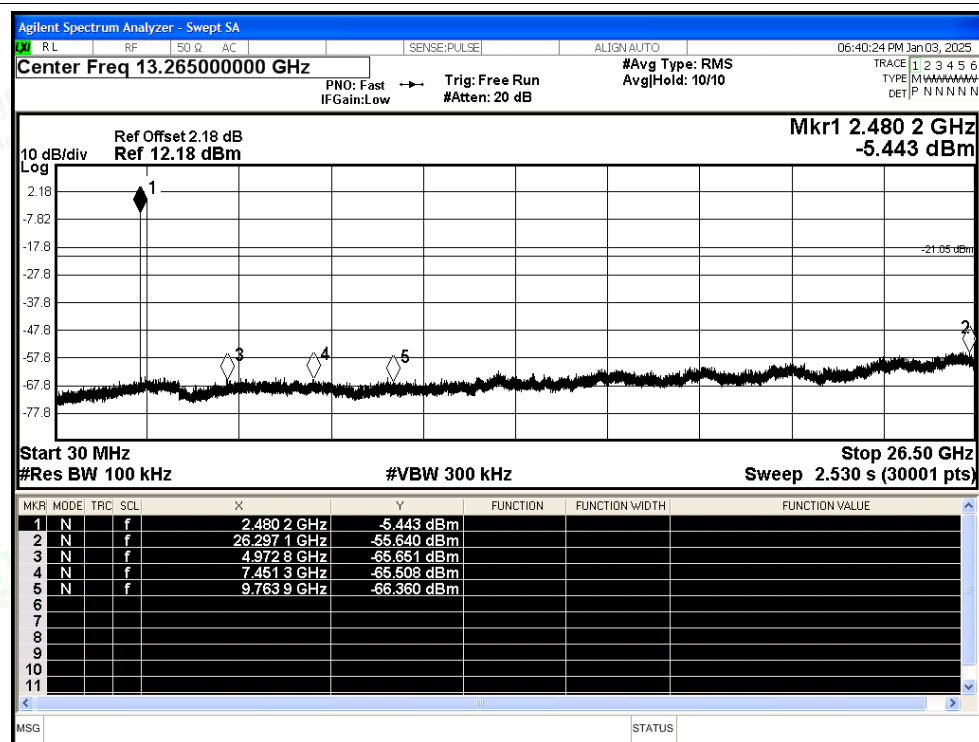




## Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Ref



## Tx. Spurious NVNT BLE 2M 2480MHz Ant1 Emission





## A.6 Duty Cycle

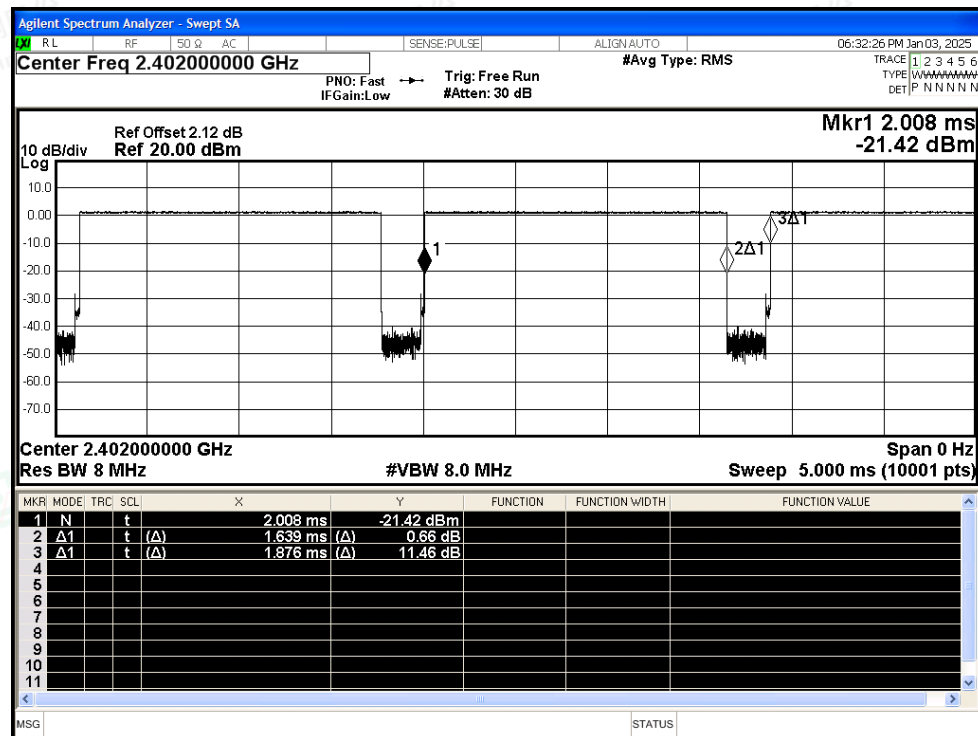
| Condition | Mode   | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) | 1/T (kHz) |
|-----------|--------|-----------------|---------|----------------|------------------------|-----------|
| NVNT      | BLE 1M | 2402            | Ant1    | 87.39          | 0.59                   | 0.61      |
| NVNT      | BLE 1M | 2440            | Ant1    | 87.39          | 0.59                   | 0.61      |
| NVNT      | BLE 1M | 2480            | Ant1    | 87.39          | 0.59                   | 0.61      |
| NVNT      | BLE 2M | 2402            | Ant1    | 65.96          | 1.81                   | 1.21      |
| NVNT      | BLE 2M | 2440            | Ant1    | 65.96          | 1.81                   | 1.21      |
| NVNT      | BLE 2M | 2480            | Ant1    | 65.92          | 1.81                   | 1.21      |



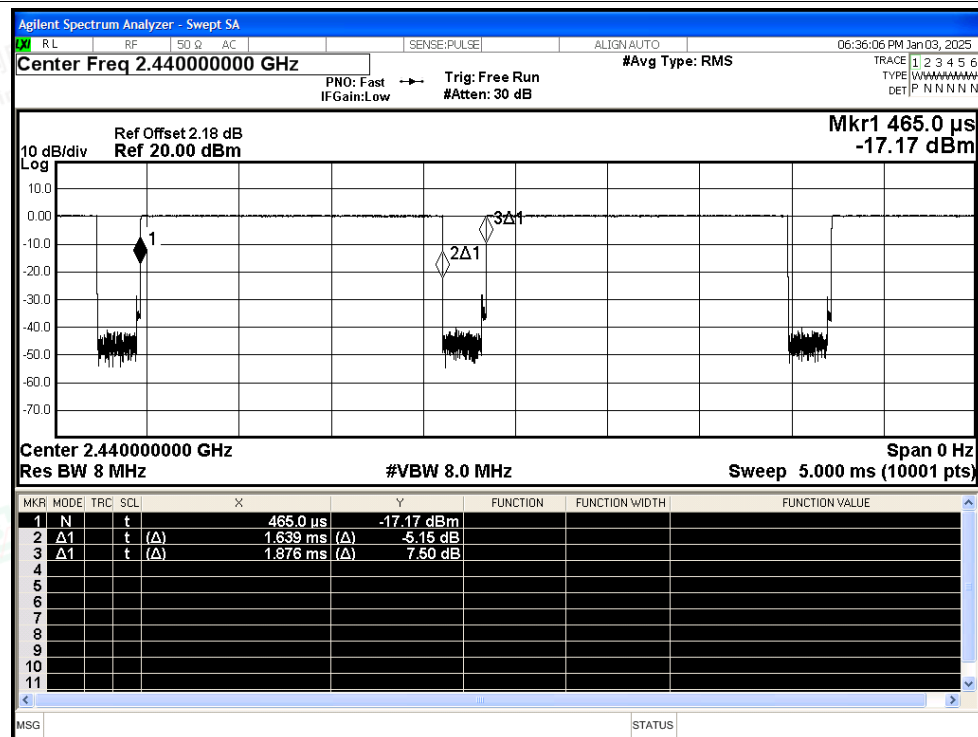


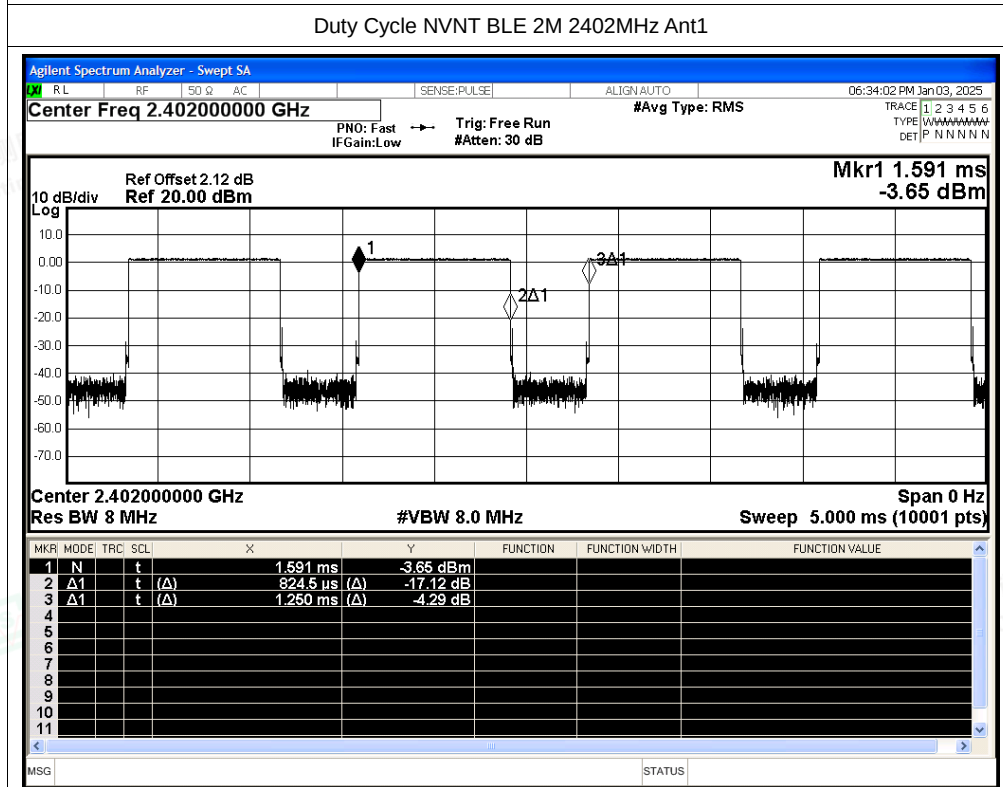
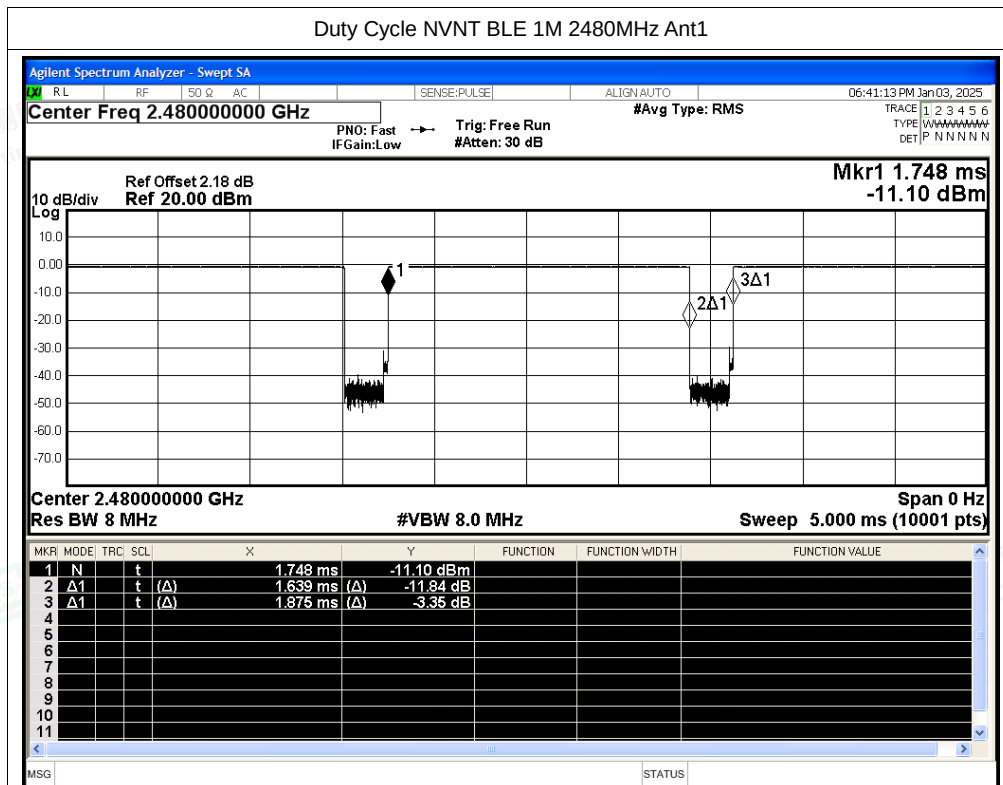
## Test Graphs

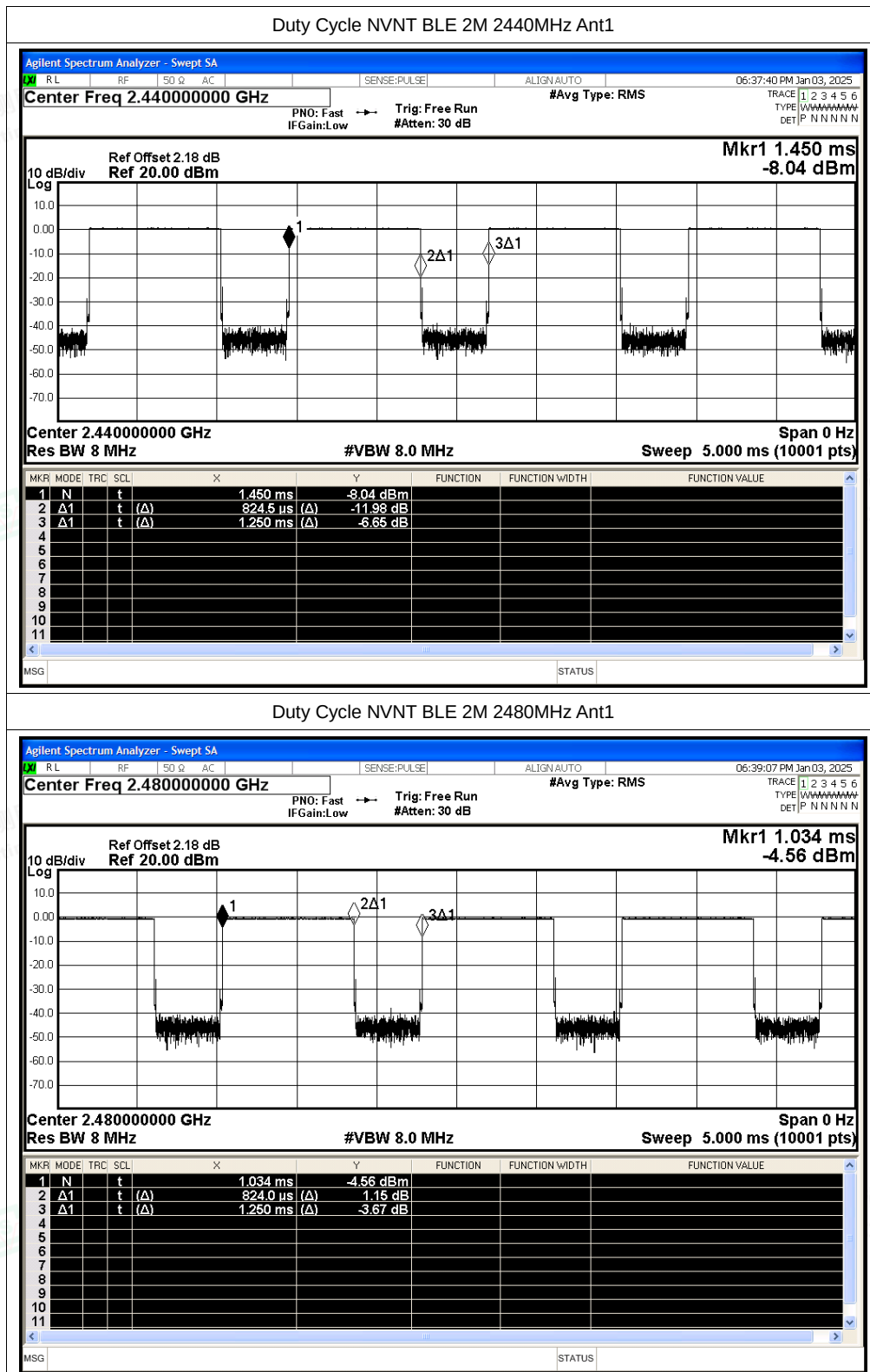
## Duty Cycle NVNT BLE 1M 2402MHz Ant1



## Duty Cycle NVNT BLE 1M 2440MHz Ant1









## A.7 Restrict Band

| Condition | Mode   | Frequency (MHz) | Antenna | Spur Freq (MHz) | Power (dBm) | Gain (dBi) | Duty Factor (dB) | E (dBuV/m) | Detector | Limit (dBuV/m) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|------------|------------------|------------|----------|----------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | 2310            | -50.86      | 2.00       | -                | 46.40      | Peak     | 74             | Pass    |
| NVNT      | BLE 1M | 2402            | Ant1    | 2310            | -58.72      | 2.00       | 0.59             | 39.13      | Average  | 54             | Pass    |
| NVNT      | BLE 1M | 2402            | Ant1    | 2373.072        | -47.78      | 2.00       | -                | 49.48      | Peak     | 74             | Pass    |
| NVNT      | BLE 1M | 2402            | Ant1    | 2377.68         | -58.02      | 2.00       | 0.59             | 39.83      | Average  | 54             | Pass    |
| NVNT      | BLE 1M | 2402            | Ant1    | 2390            | -50.85      | 2.00       | -                | 46.41      | Peak     | 74             | Pass    |
| NVNT      | BLE 1M | 2402            | Ant1    | 2390            | -58.31      | 2.00       | 0.59             | 39.54      | Average  | 54             | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | 2483.5          | -49.37      | 2.00       | -                | 47.89      | Peak     | 74             | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | 2483.5          | -57.49      | 2.00       | 0.59             | 40.36      | Average  | 54             | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | 2483.776        | -46.89      | 2.00       | -                | 50.37      | Peak     | 74             | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | 2483.584        | -57.49      | 2.00       | 0.59             | 40.36      | Average  | 54             | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | 2500            | -50.56      | 2.00       | -                | 46.70      | Peak     | 74             | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | 2500            | -57.72      | 2.00       | 0.59             | 40.13      | Average  | 54             | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | 2310            | -51.89      | 2.00       | -                | 45.37      | Peak     | 74             | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | 2310            | -58.52      | 2.00       | 1.81             | 40.55      | Average  | 54             | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | 2373.648        | -47.55      | 2.00       | -                | 49.71      | Peak     | 74             | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | 2381.616        | -57.73      | 2.00       | 1.81             | 41.34      | Average  | 54             | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | 2390            | -51.38      | 2.00       | -                | 45.88      | Peak     | 74             | Pass    |
| NVNT      | BLE 2M | 2402            | Ant1    | 2390            | -58.19      | 2.00       | 1.81             | 40.88      | Average  | 54             | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | 2483.5          | -48.1       | 2.00       | -                | 49.16      | Peak     | 74             | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | 2483.5          | -57.84      | 2.00       | 1.81             | 41.23      | Average  | 54             | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | 2485.792        | -45.55      | 2.00       | -                | 51.71      | Peak     | 74             | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | 2485.816        | -57.26      | 2.00       | 1.81             | 41.81      | Average  | 54             | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | 2500            | -49.06      | 2.00       | -                | 48.20      | Peak     | 74             | Pass    |
| NVNT      | BLE 2M | 2480            | Ant1    | 2500            | -57.96      | 2.00       | 1.81             | 41.11      | Average  | 54             | Pass    |

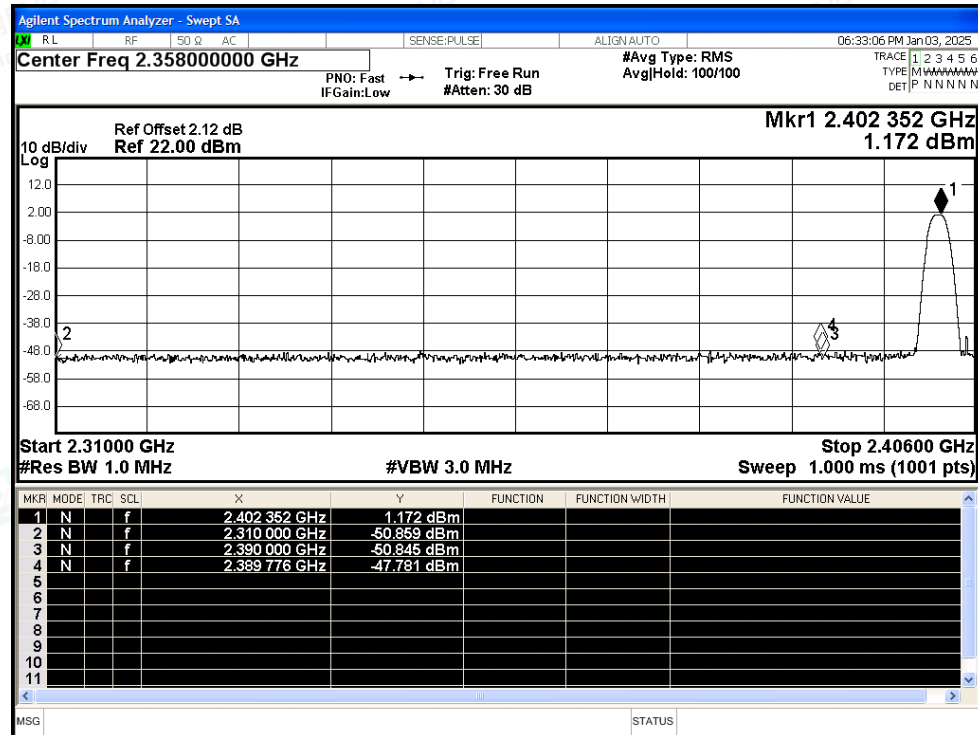


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Scan code to check authenticity

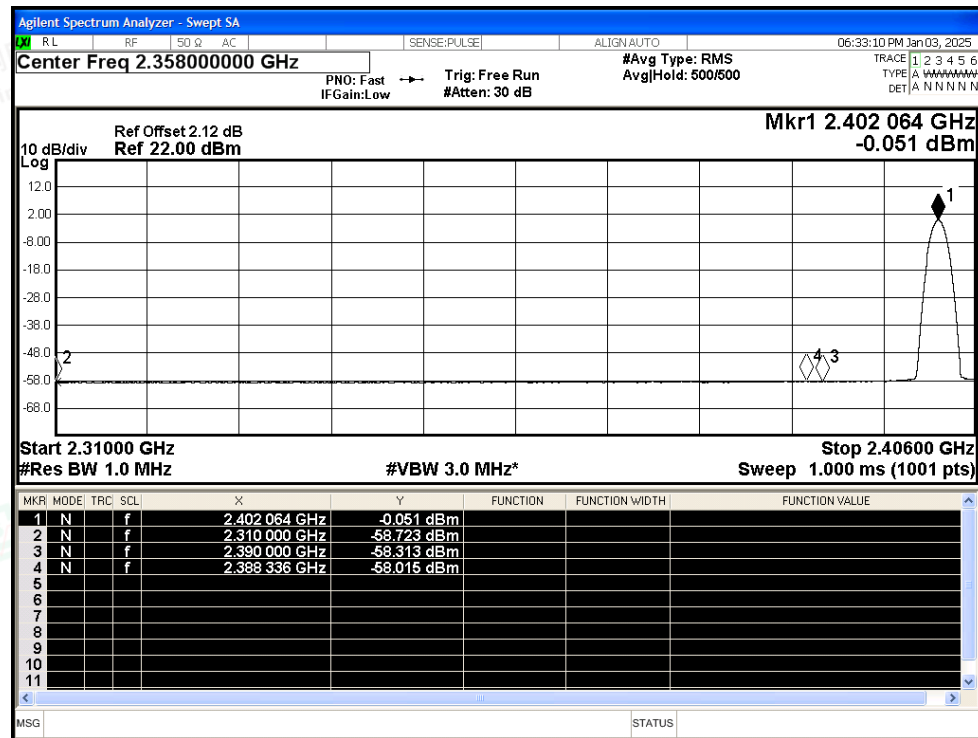


## Test Graphs

## Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak

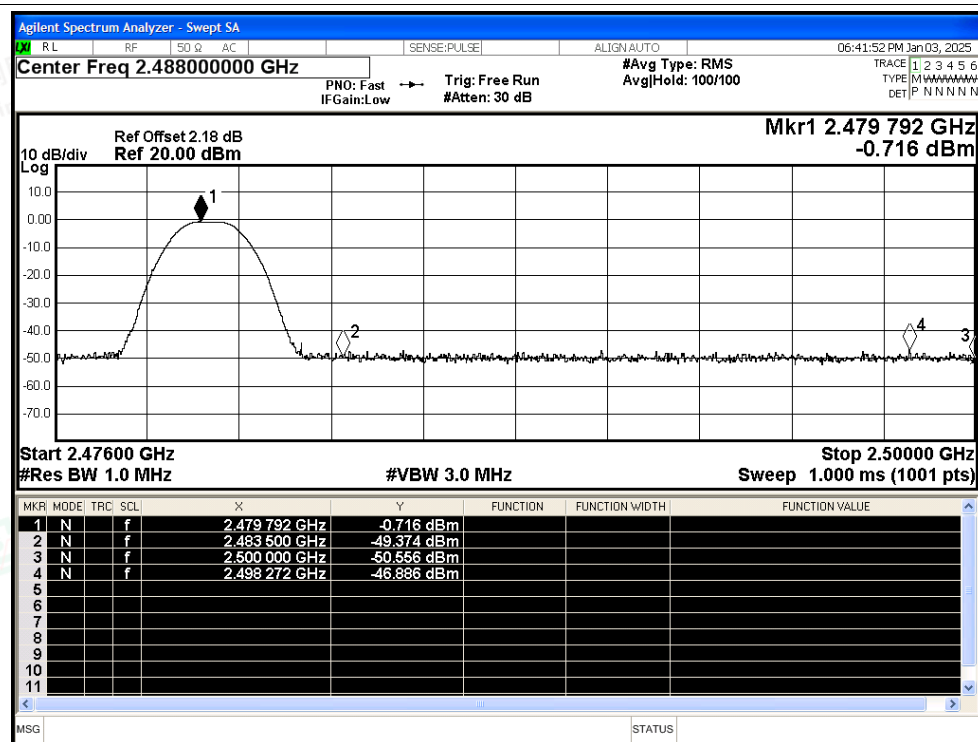


## Restrict Band NVNT BLE 1M 2402MHz Ant1 Average

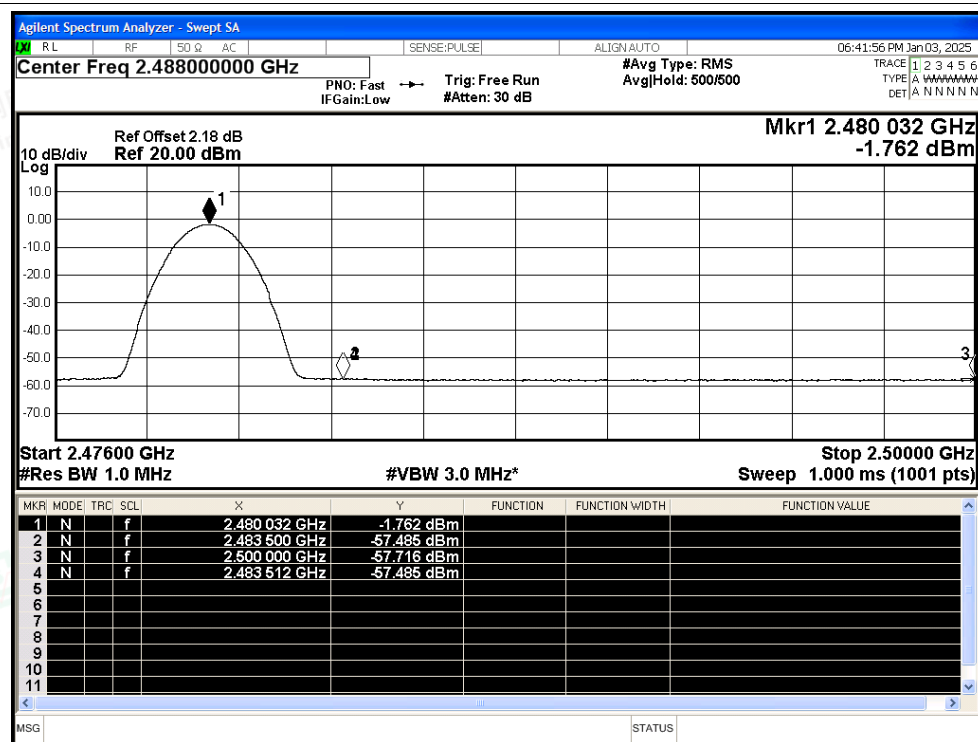




## Restrict Band NVNT BLE 1M 2480MHz Ant1 Peak



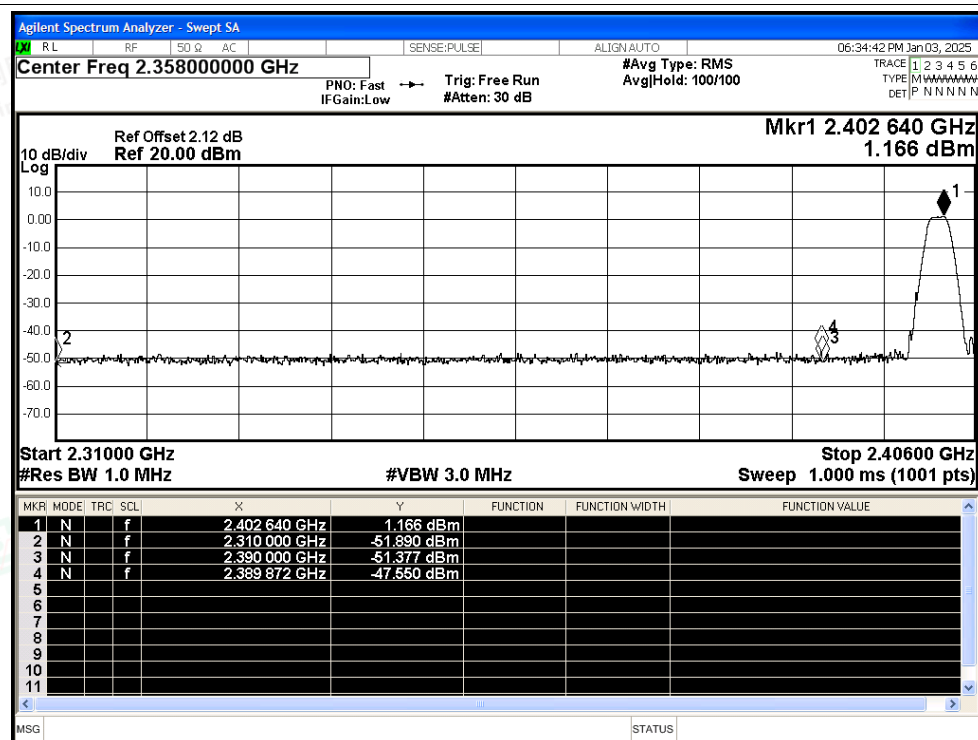
## Restrict Band NVNT BLE 1M 2480MHz Ant1 Average



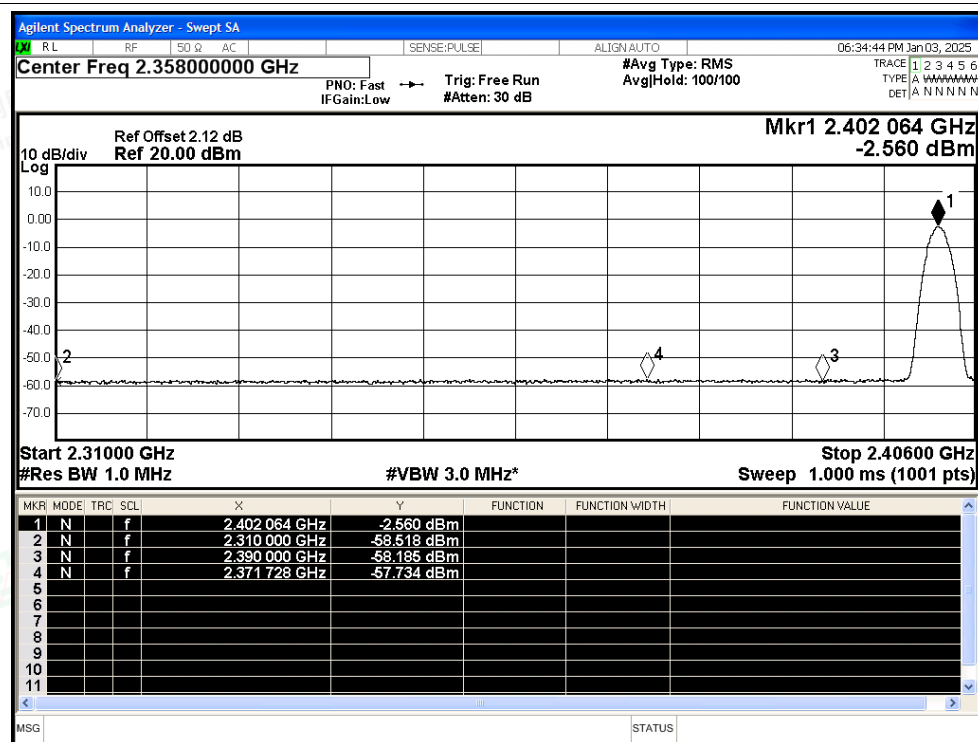




## Restrict Band NVNT BLE 2M 2402MHz Ant1 Peak

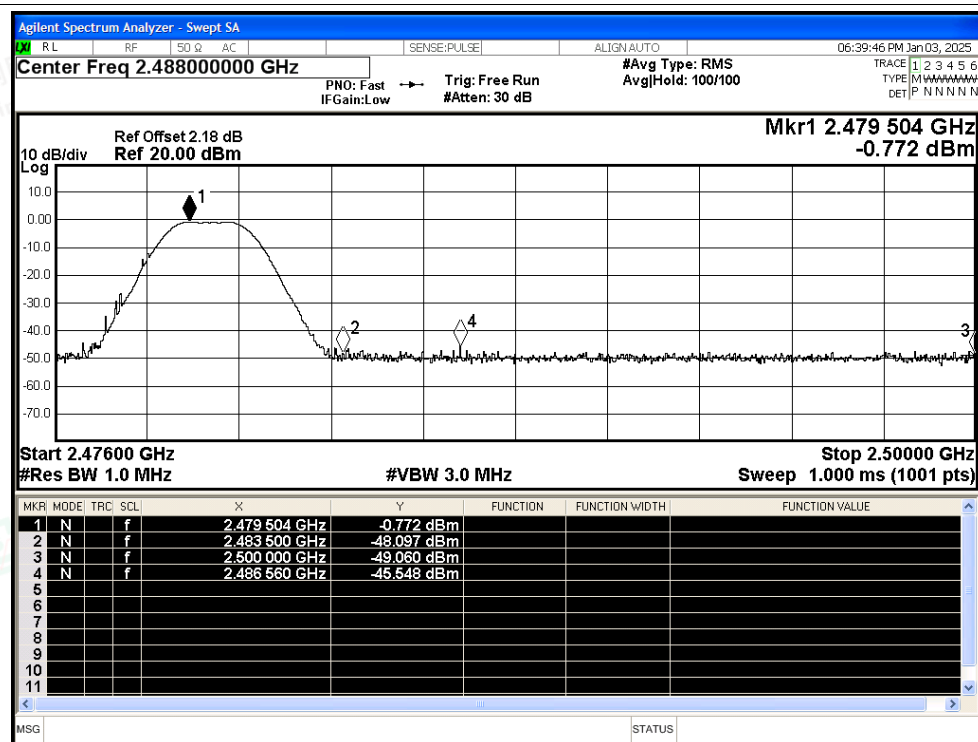


## Restrict Band NVNT BLE 2M 2402MHz Ant1 Average





## Restrict Band NVNT BLE 2M 2480MHz Ant1 Peak



## Restrict Band NVNT BLE 2M 2480MHz Ant1 Average

