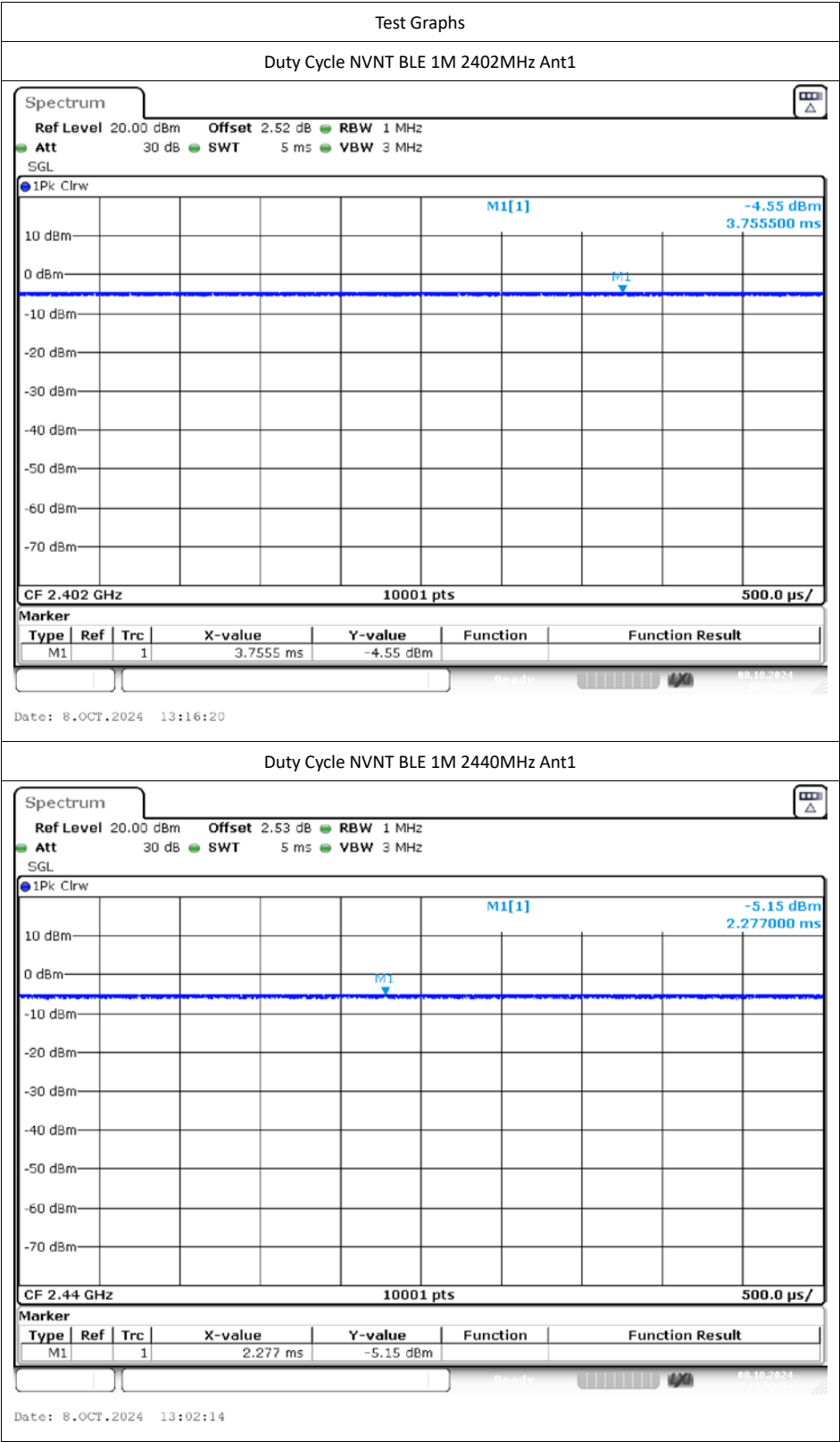
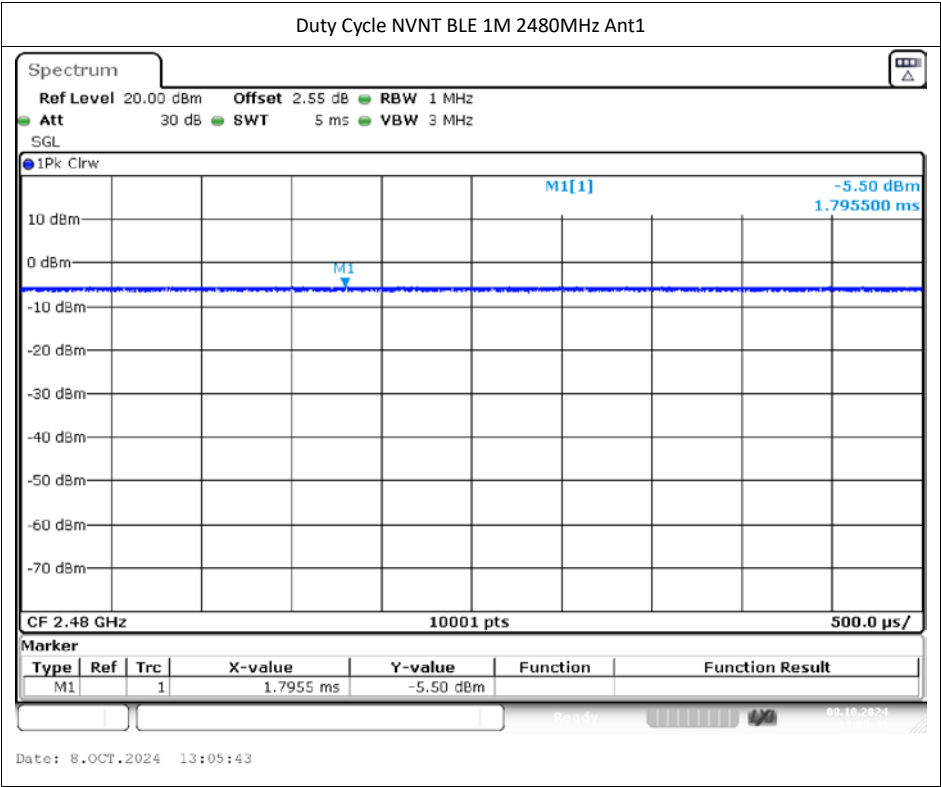


# Appendix A

## Duty Cycle

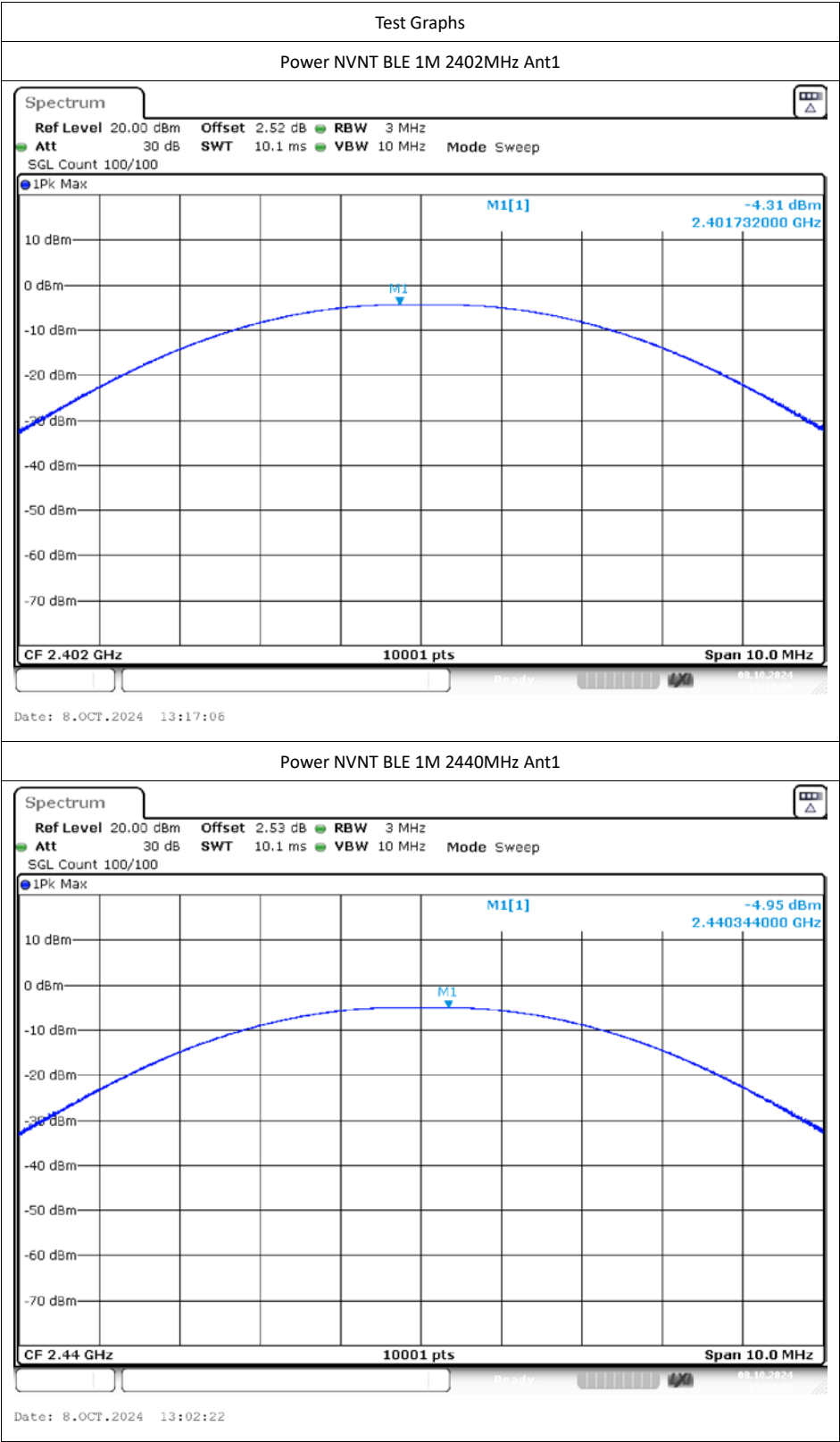
| Condition | Mode      | Frequency<br>(MHz) | Antenna | On Time<br>(ms) | Period<br>(ms) | Duty Cycle<br>(%) | Correction Factor<br>(dB) | 1/T<br>(kHz) | Final settingFor VBW<br>(kHz) |
|-----------|-----------|--------------------|---------|-----------------|----------------|-------------------|---------------------------|--------------|-------------------------------|
| NVNT      | BLE<br>1M | 2402               | Ant1    | 0               | 0              | 100               | 0                         | 0            | 1                             |
| NVNT      | BLE<br>1M | 2440               | Ant1    | 0               | 0              | 100               | 0                         | 0            | 1                             |
| NVNT      | BLE<br>1M | 2480               | Ant1    | 0               | 0              | 100               | 0                         | 0            | 1                             |

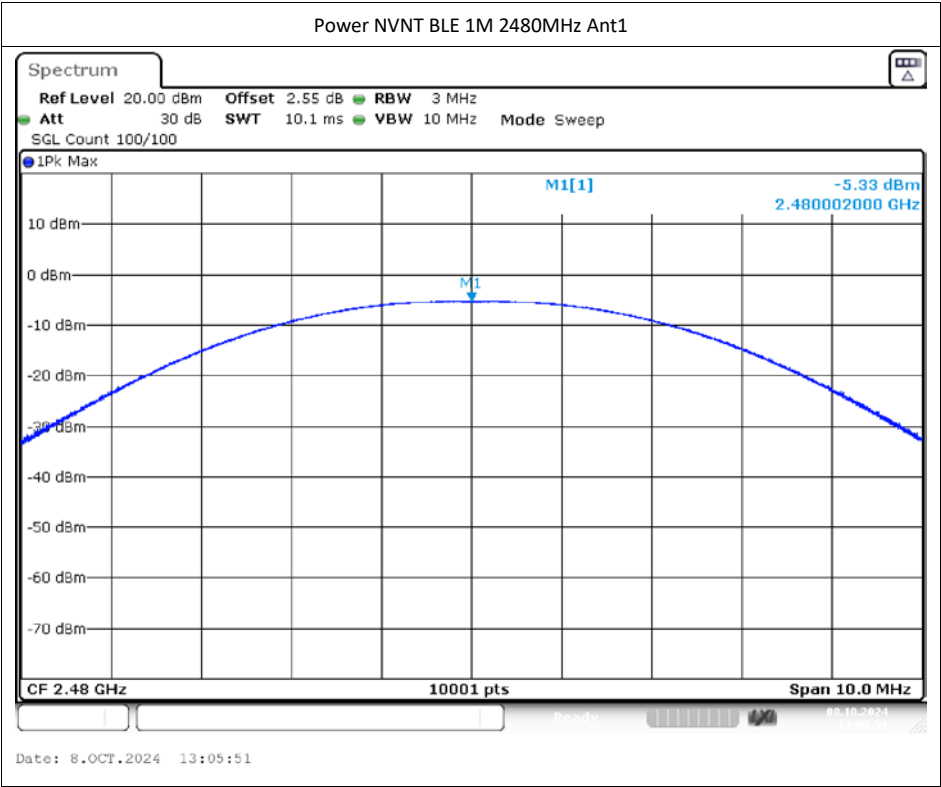




## Maximum Conducted Output Power

| Condition | Mode   | Frequency (MHz) | Antenna | Conducted Power (dBm) | Duty Factor (dB) | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|--------|-----------------|---------|-----------------------|------------------|-------------------|-------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | -4.31                 | 0                | -4.31             | 30          | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | -4.95                 | 0                | -4.95             | 30          | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | -5.33                 | 0                | -5.33             | 30          | Pass    |



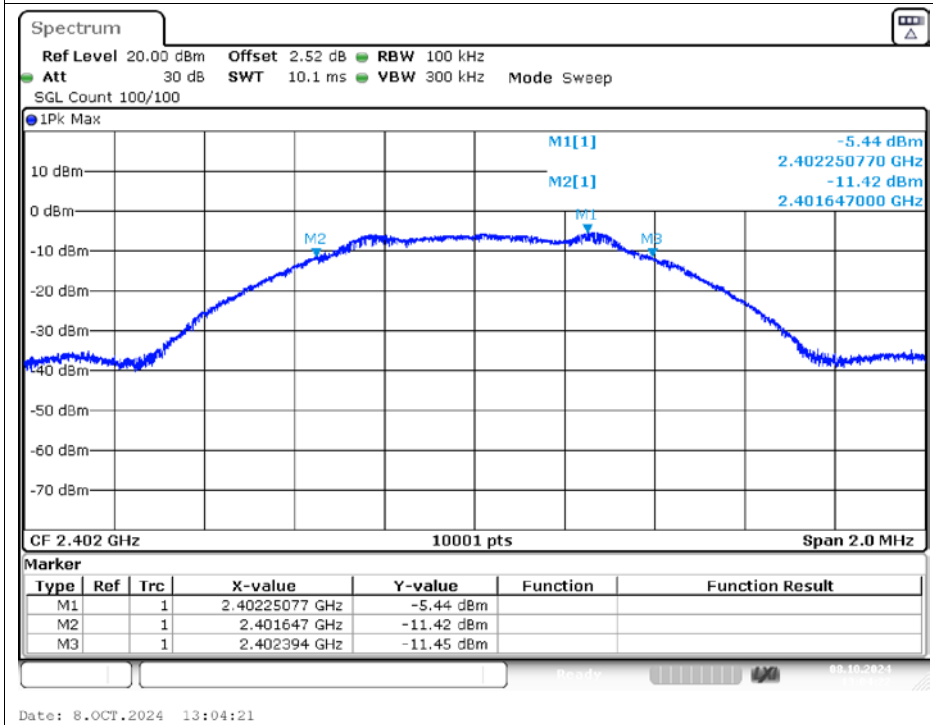


## -6dB Bandwidth

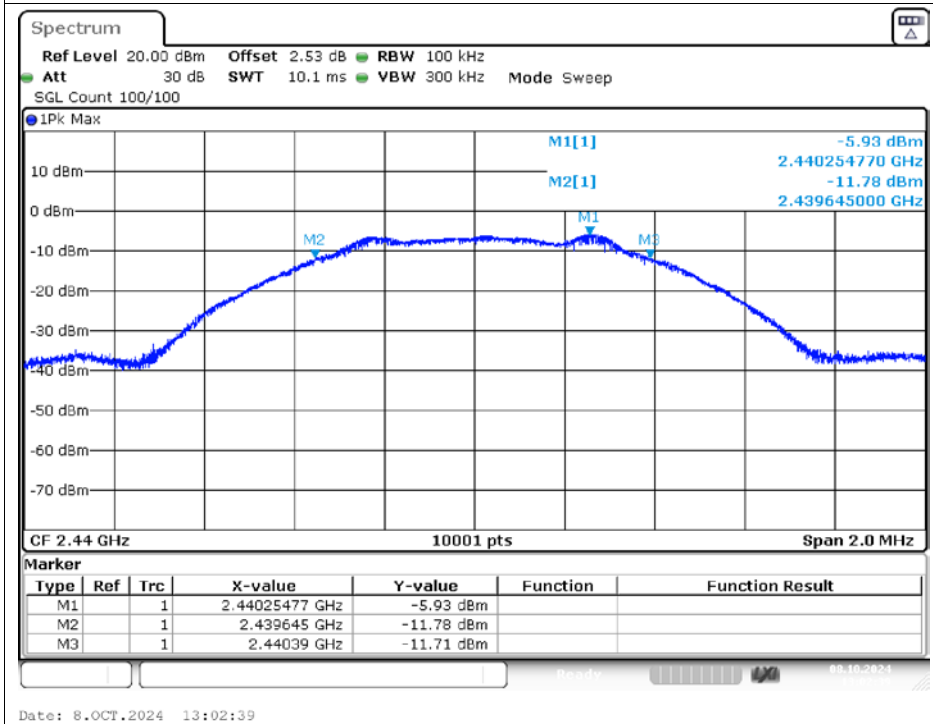
| Condition | Mode   | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|--------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | 0.75                  | 0.5                         | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | 0.75                  | 0.5                         | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | 0.76                  | 0.5                         | Pass    |

# Test Graphs

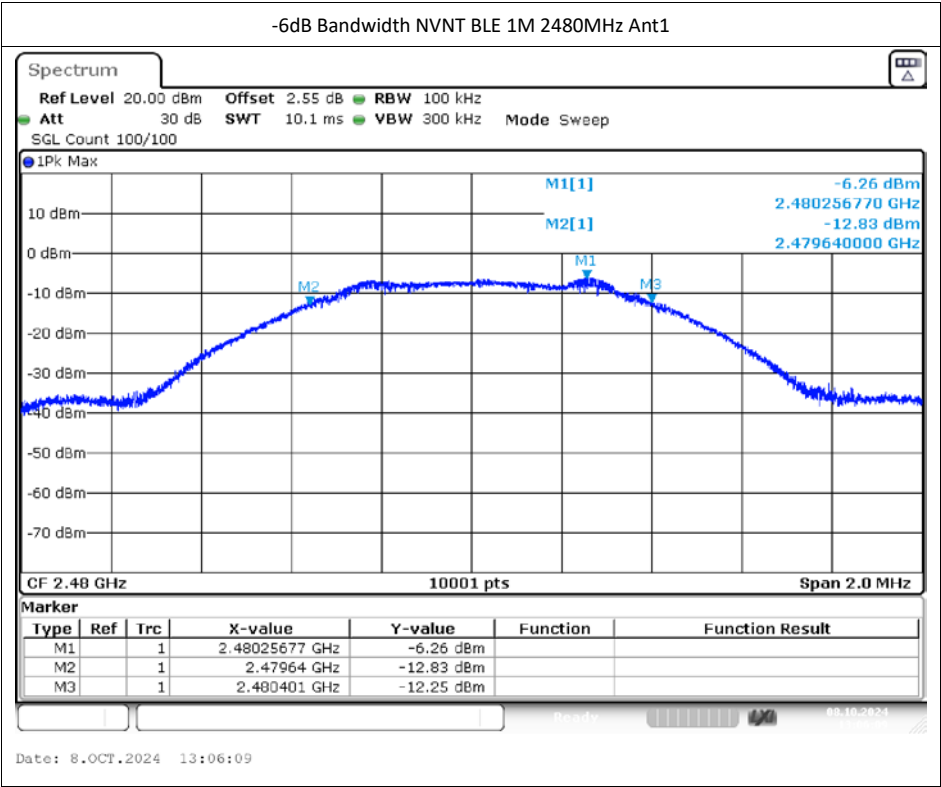
## -6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



## -6dB Bandwidth NVNT BLE 1M 2440MHz Ant1





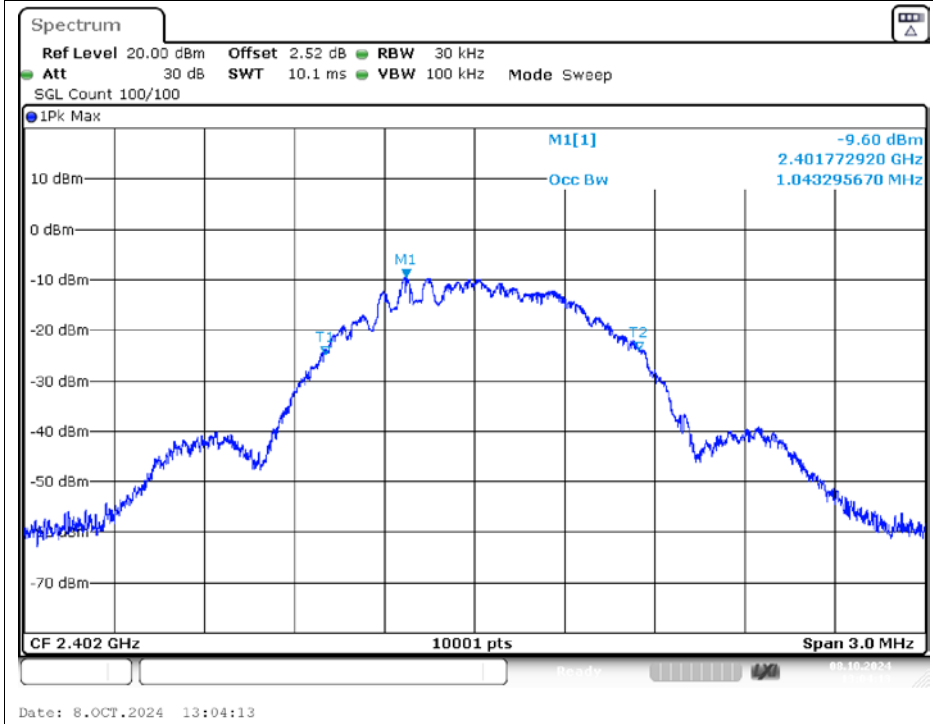


## Occupied Channel Bandwidth

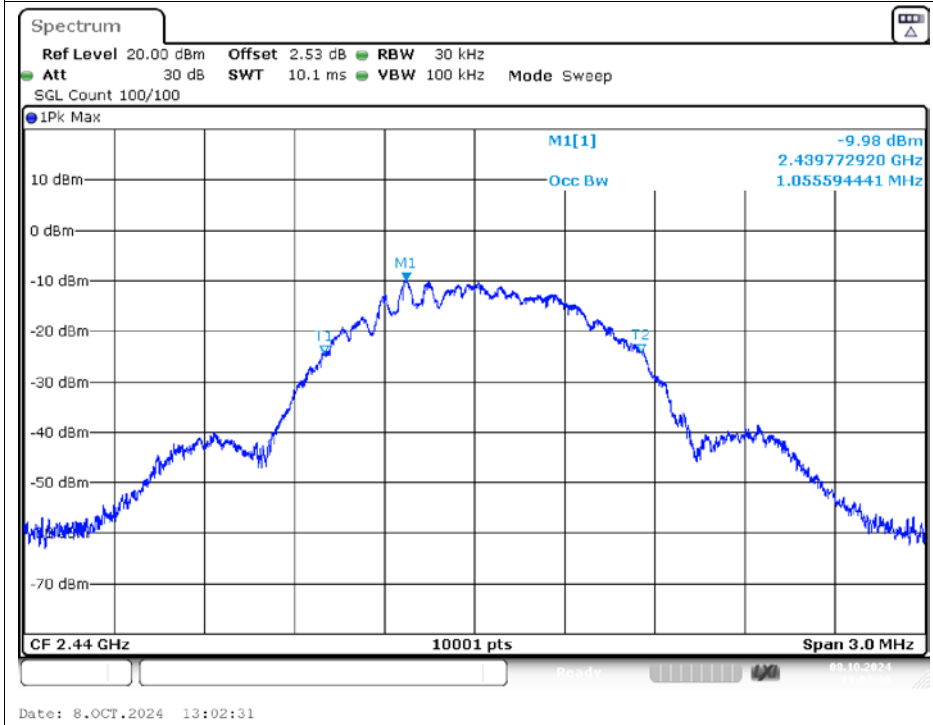
| Condition | Mode   | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|-----------|--------|-----------------|---------|---------------|
| NVNT      | BLE 1M | 2402            | Ant1    | 1.043         |
| NVNT      | BLE 1M | 2440            | Ant1    | 1.056         |
| NVNT      | BLE 1M | 2480            | Ant1    | 1.065         |

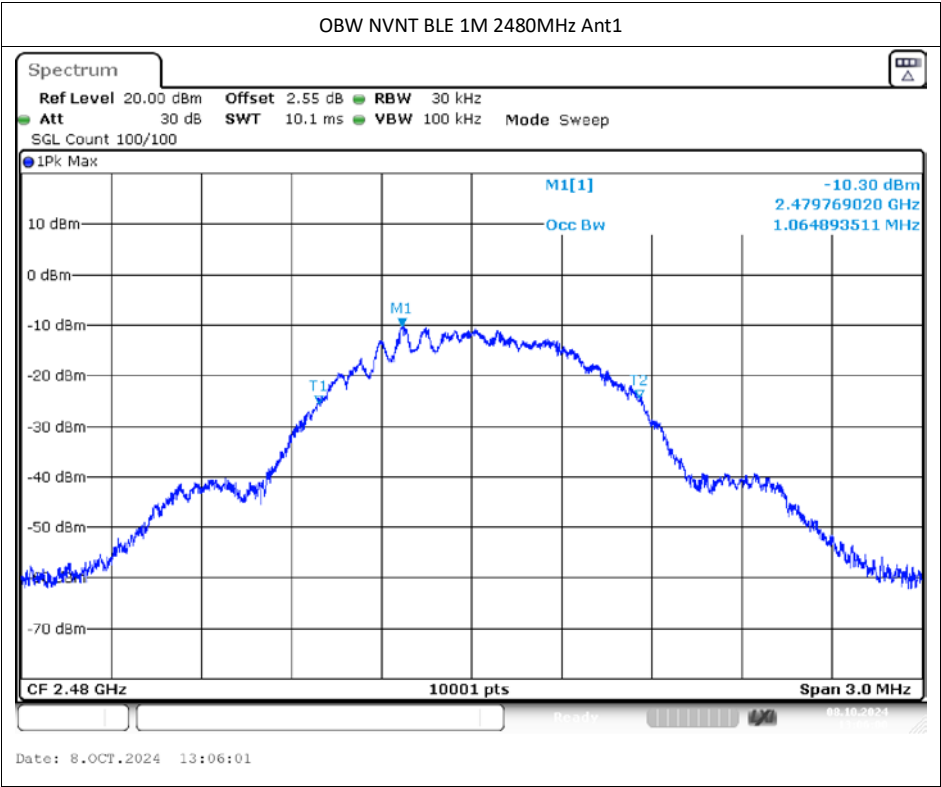
# Test Graphs

OBW NVNT BLE 1M 2402MHz Ant1



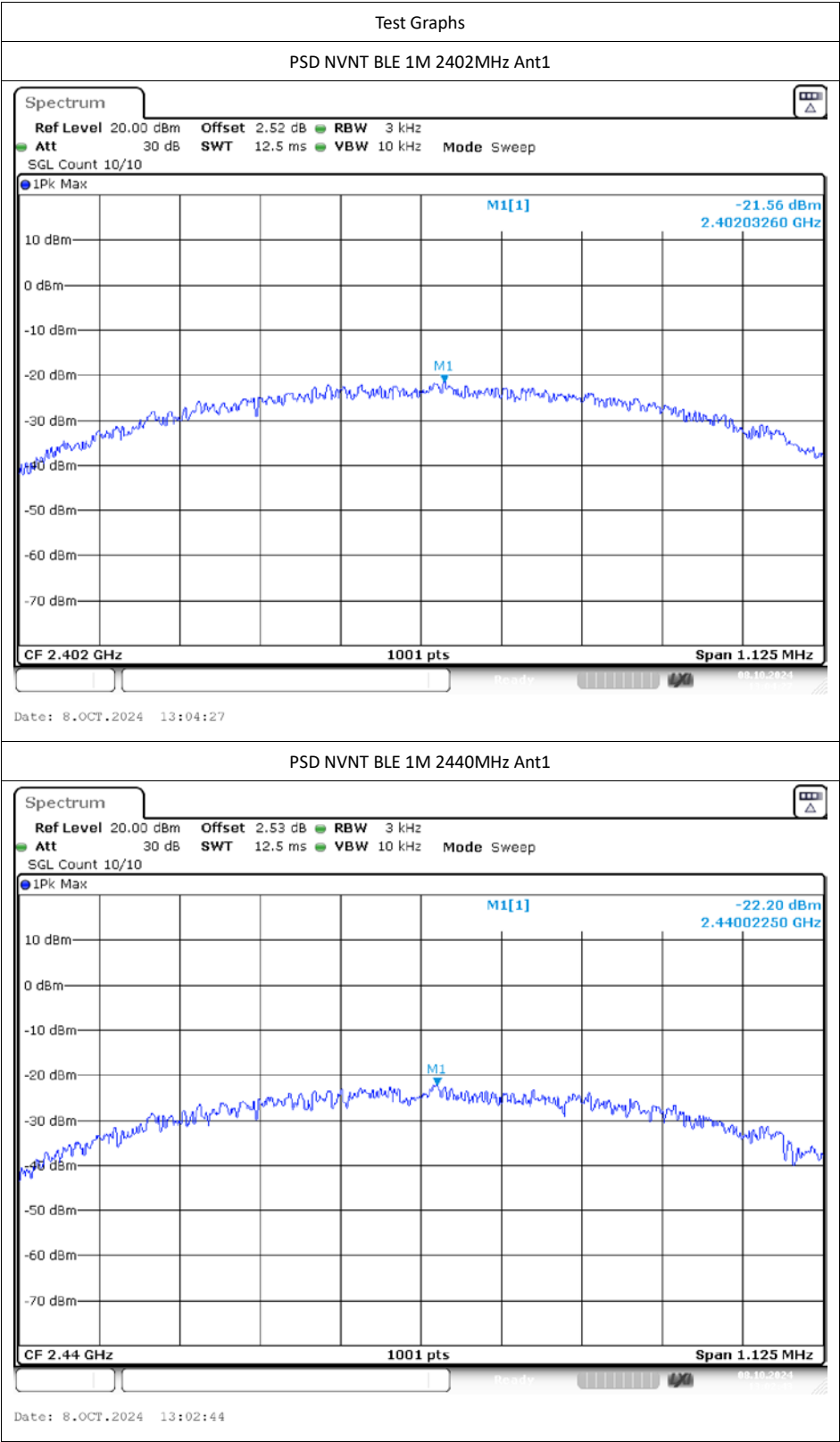
OBW NVNT BLE 1M 2440MHz Ant1

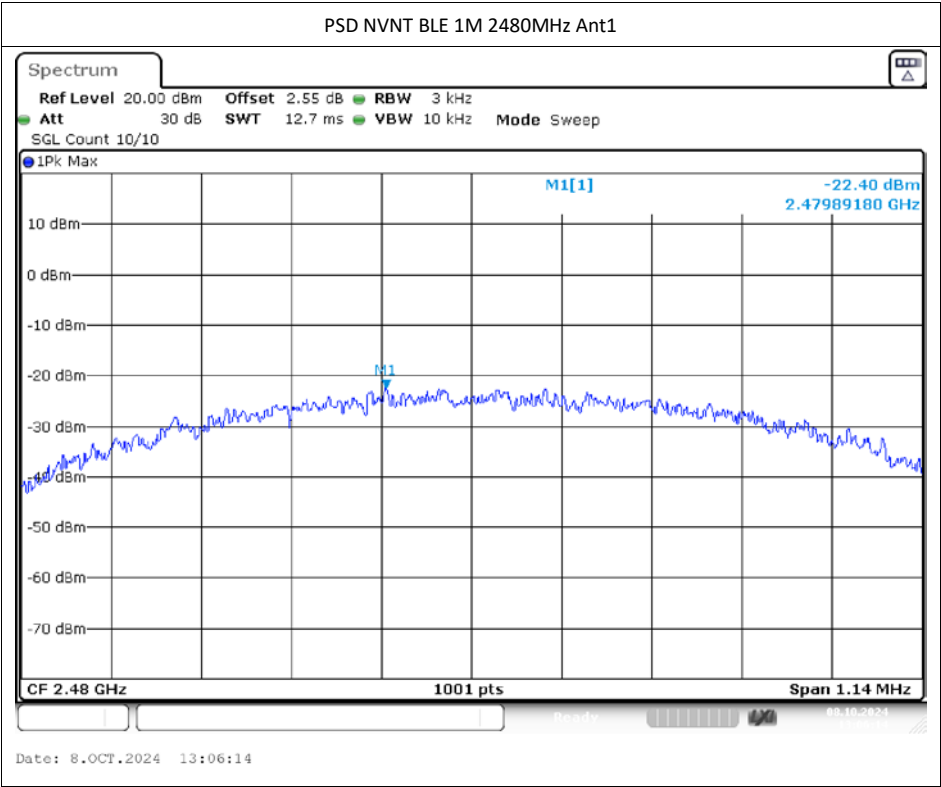




## Maximum Power Spectral Density Level

| Condition | Mode   | Frequency (MHz) | Antenna | Conducted PSD (dBm/3kHz) | Duty Factor (dB) | Total PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|-----------|--------|-----------------|---------|--------------------------|------------------|----------------------|------------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | -21.56                   | 0                | -21.56               | 8                | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | -22.2                    | 0                | -22.2                | 8                | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | -22.4                    | 0                | -22.4                | 8                | Pass    |





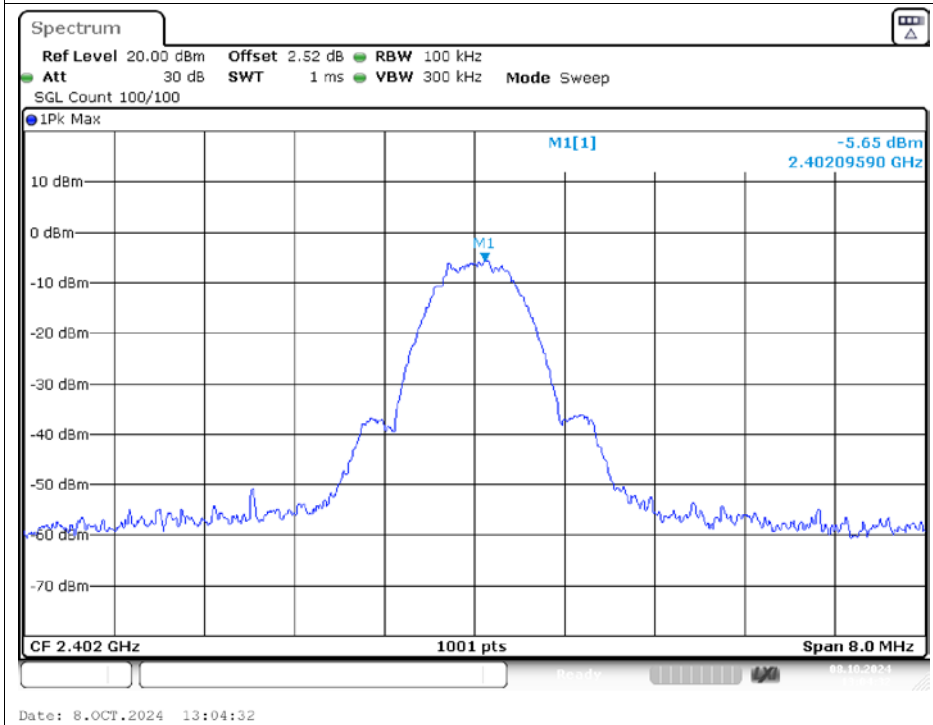
## Band Edge

| Condition | Mode   | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | -47.32          | -20         | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | -48.84          | -20         | Pass    |

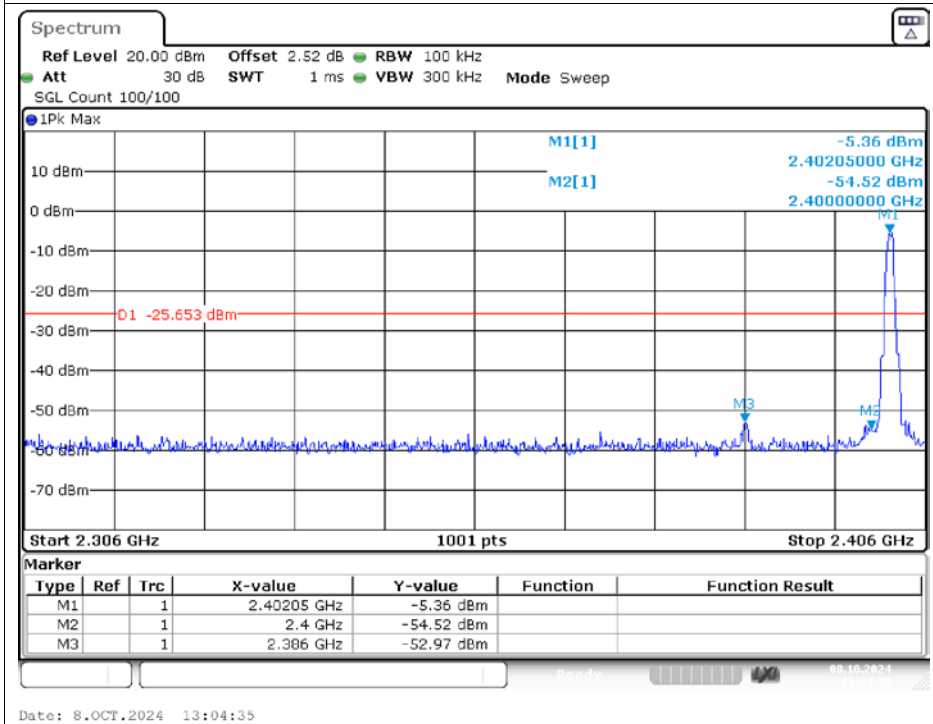


# Test Graphs

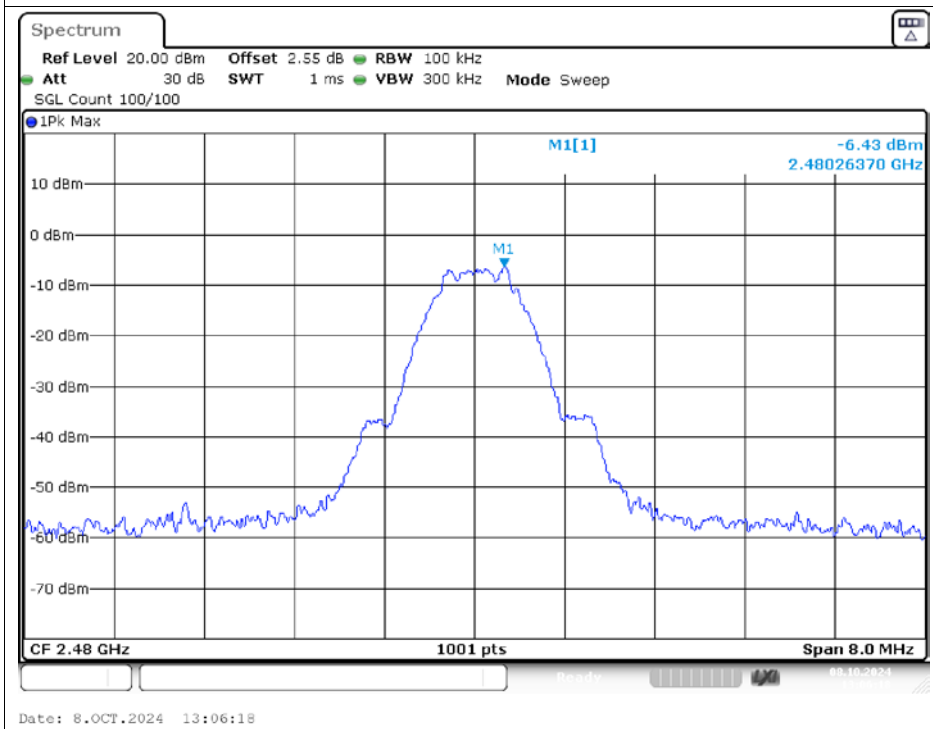
## Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



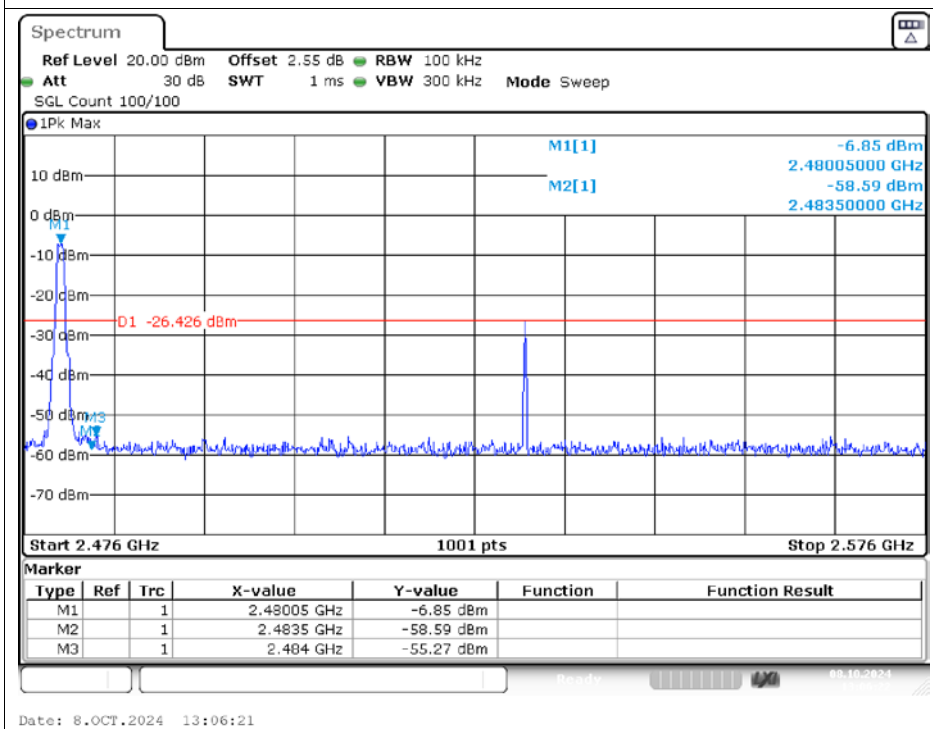
## Band Edge NVNT BLE 1M 2402MHz Ant1 Emission



# Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



# Band Edge NVNT BLE 1M 2480MHz Ant1 Emission

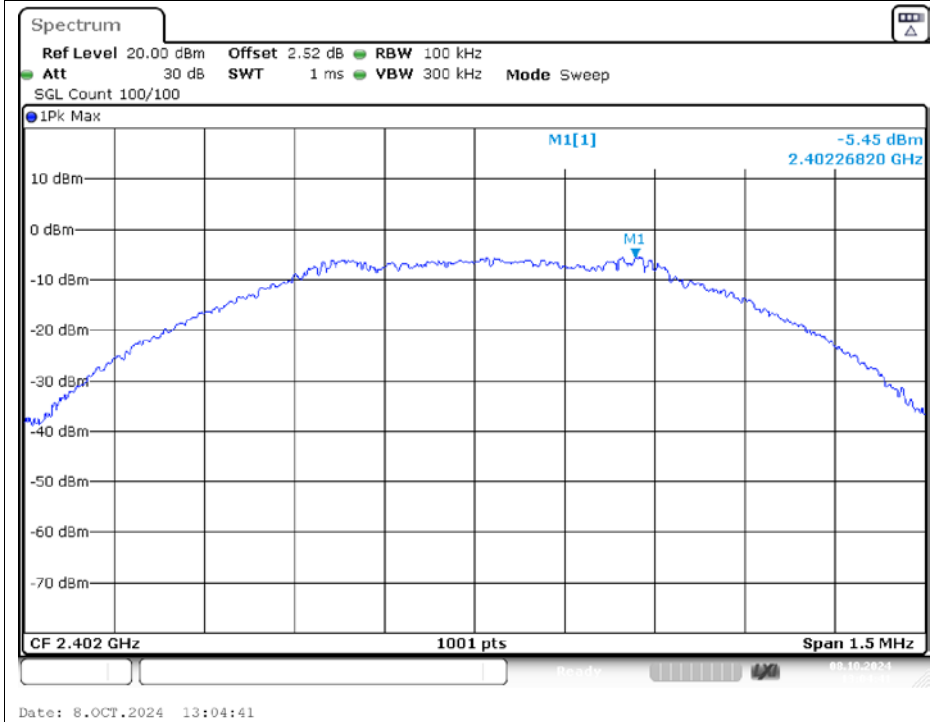


## Conducted RF Spurious Emission

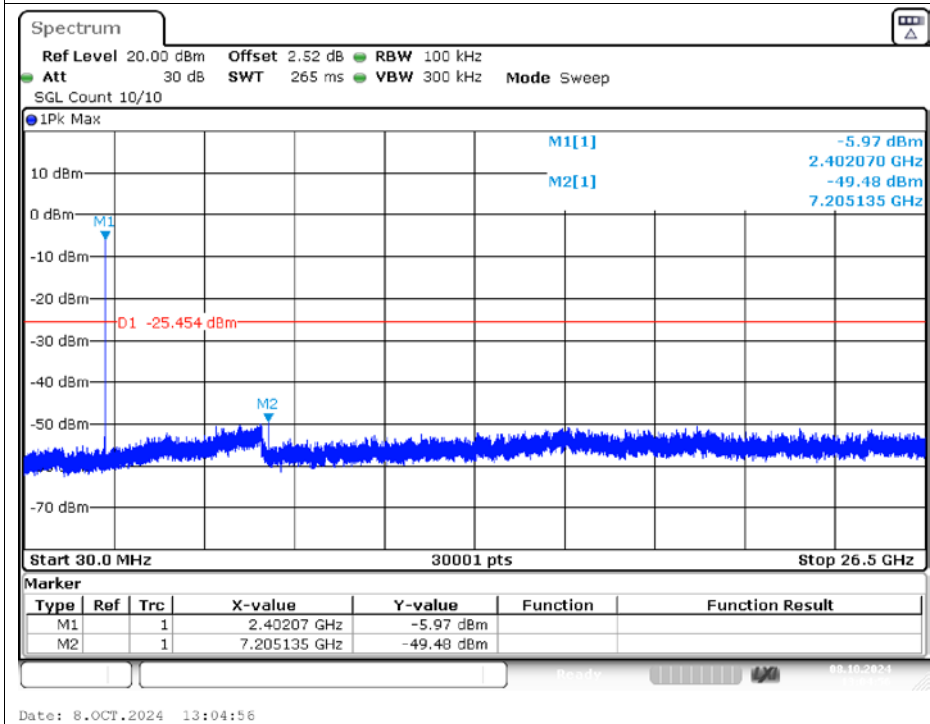
| Condition | Mode   | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|--------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | BLE 1M | 2402            | Ant1    | -44.03          | -20         | Pass    |
| NVNT      | BLE 1M | 2440            | Ant1    | -43.44          | -20         | Pass    |
| NVNT      | BLE 1M | 2480            | Ant1    | -43.61          | -20         | Pass    |

# Test Graphs

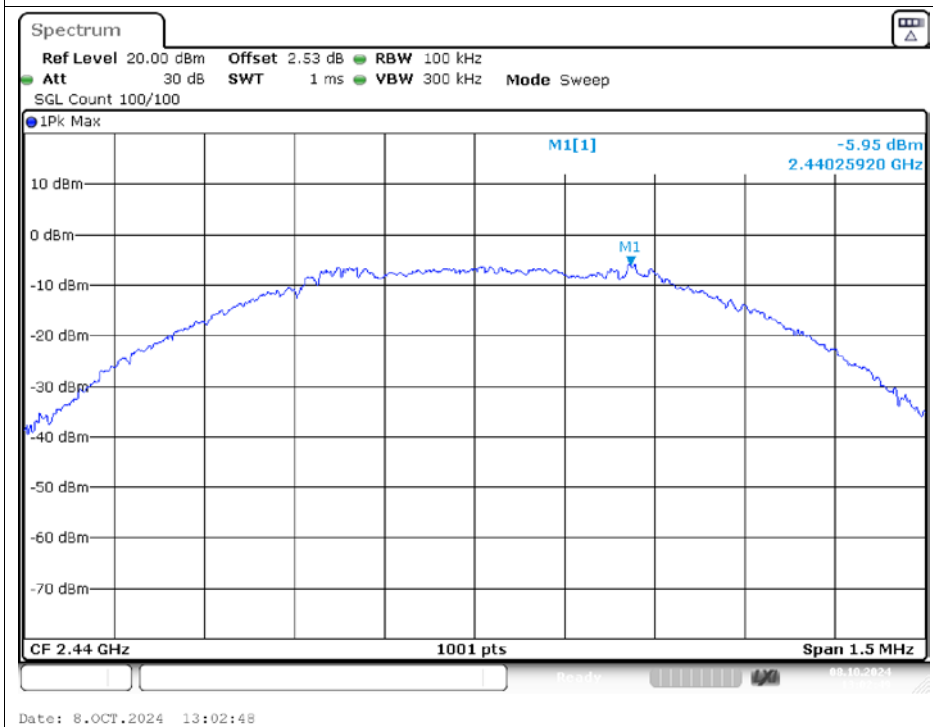
## Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



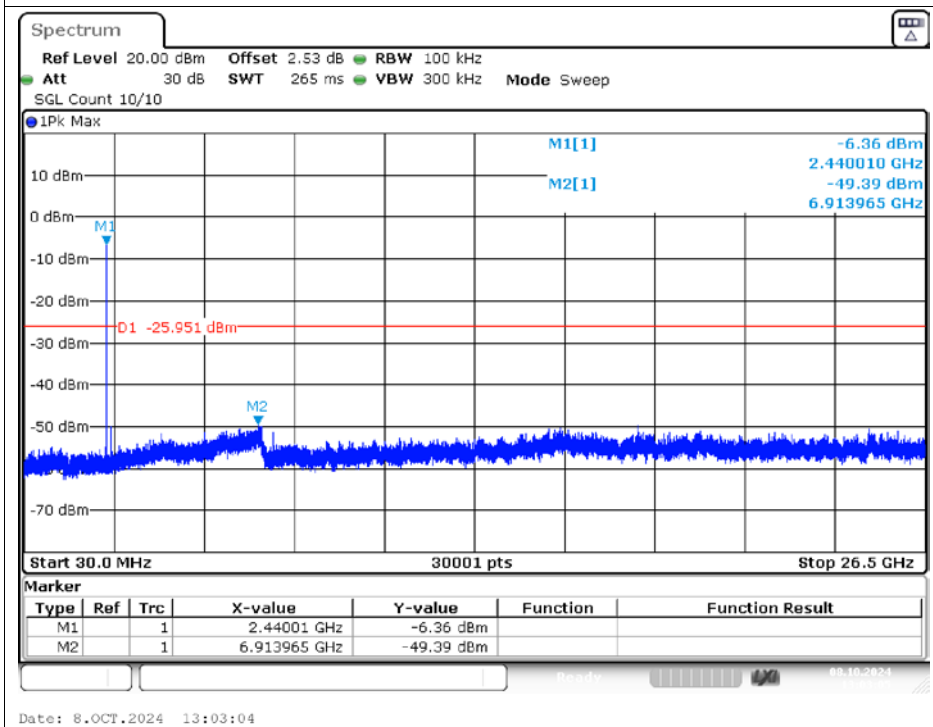
## Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission



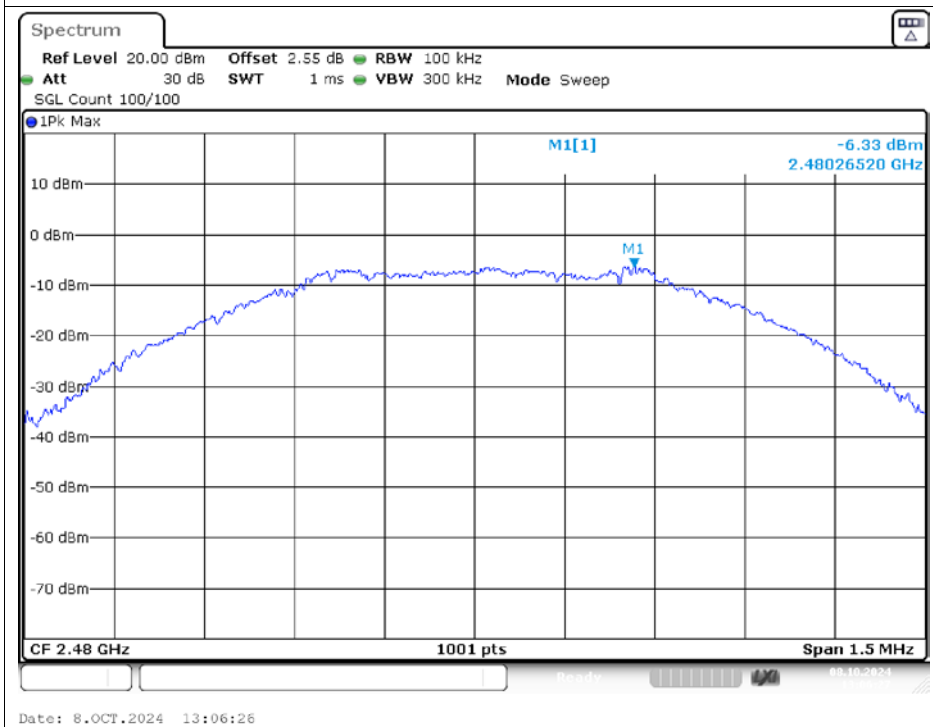
Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission

