

**Table of Contents**

1. -6dB Bandwidth ..... 2

2. 99% Occupied Bandwidth ..... 4

3. Duty Cycle ..... 6

4. Peak Output Power ..... 8

5. Power Spectral Density ..... 10

6. Bandedge ..... 12

7. Spurious Emission ..... 14

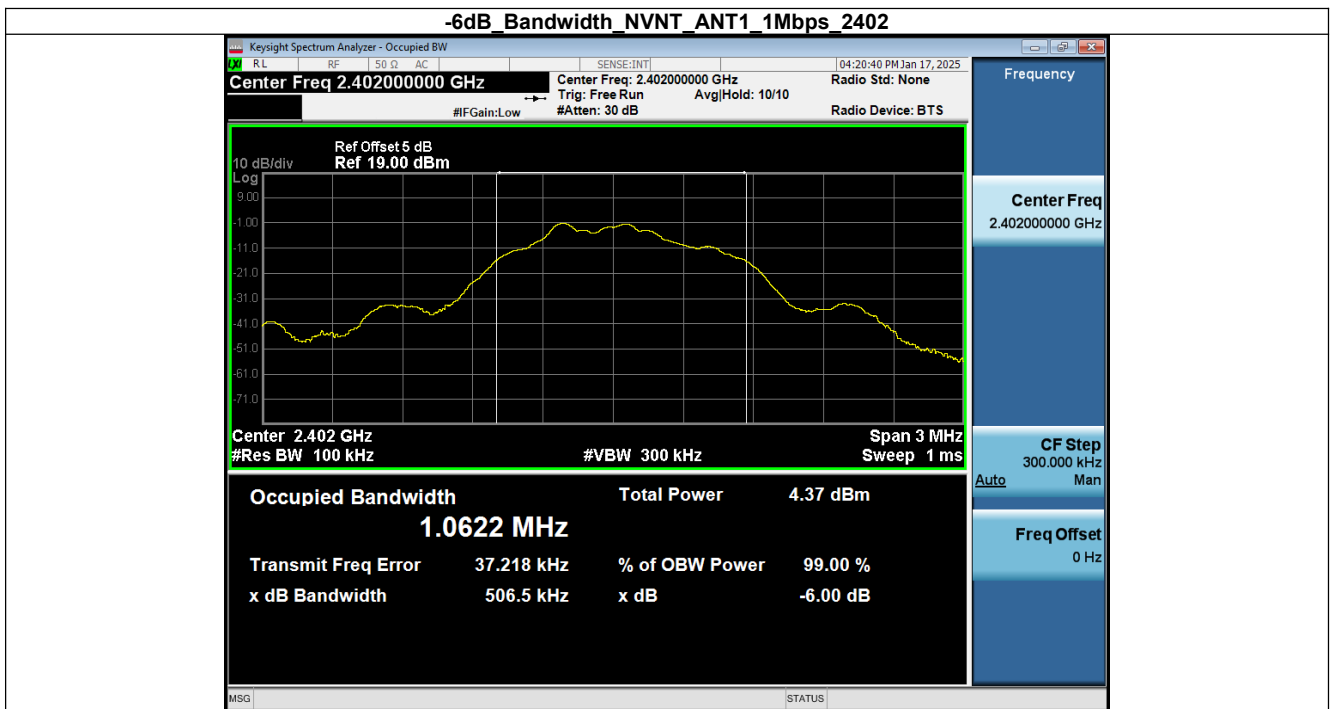
# Report No.:NCT24051453E1-1

## FCC ID:2BMXP-BTW001PRO

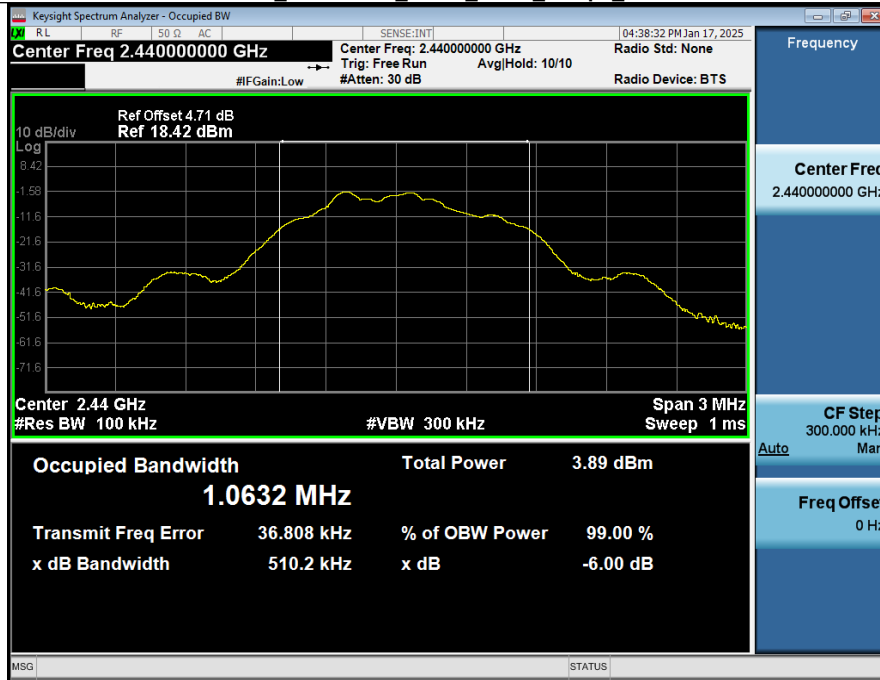
### FCC\_BLE (Part15.247) Test Data

#### 1. -6dB Bandwidth

| Condition | Antenna | Rate  | Frequency (MHz) | -6dB BW(kHz) | limit(kHz) | Result |
|-----------|---------|-------|-----------------|--------------|------------|--------|
| NVNT      | ANT1    | 1Mbps | 2402.00         | 506.52       | 500        | Pass   |
| NVNT      | ANT1    | 1Mbps | 2440.00         | 510.21       | 500        | Pass   |
| NVNT      | ANT1    | 1Mbps | 2480.00         | 508.92       | 500        | Pass   |



-6dB\_Bandwidth\_NVNT\_ANT1\_1Mbps\_2440

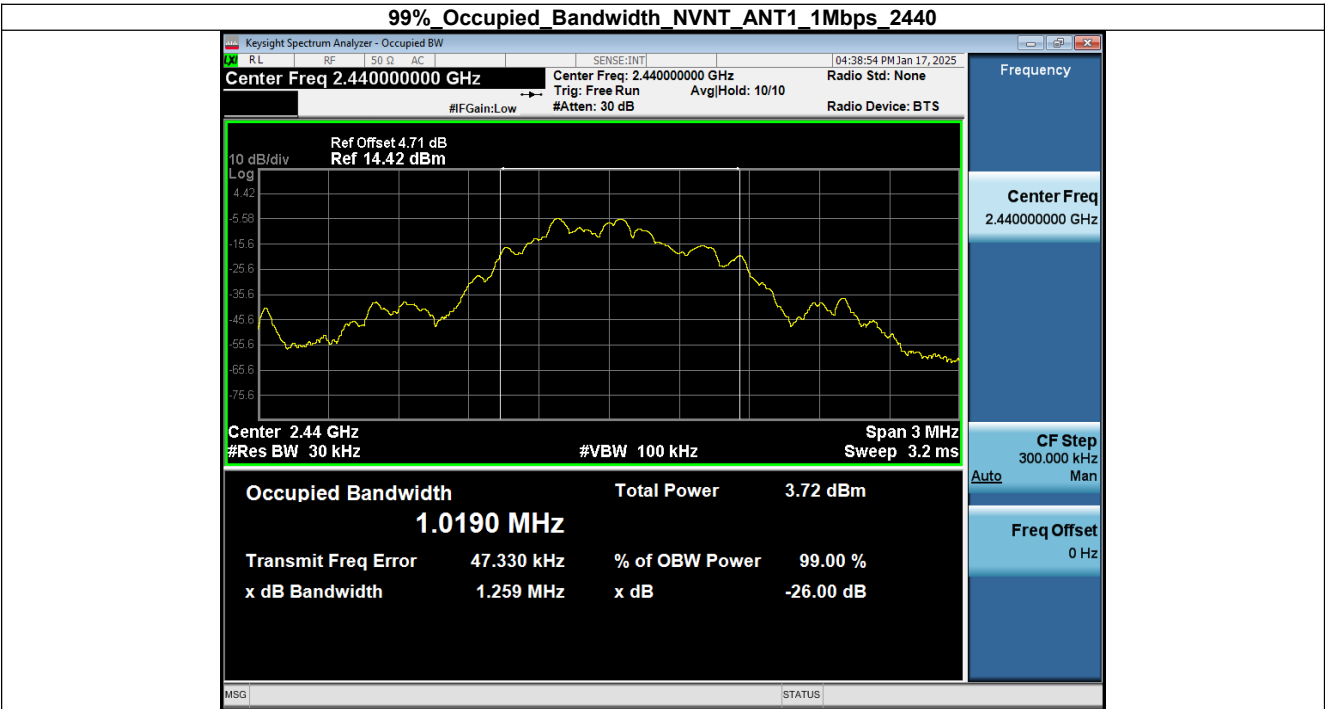


-6dB\_Bandwidth\_NVNT\_ANT1\_1Mbps\_2480



2. 99% Occupied Bandwidth

| Condition | Antenna | Rate  | Frequency (MHz) | 99% BW (MHz) |
|-----------|---------|-------|-----------------|--------------|
| NVNT      | ANT1    | 1Mbps | 2402.00         | 1.019        |
| NVNT      | ANT1    | 1Mbps | 2440.00         | 1.019        |
| NVNT      | ANT1    | 1Mbps | 2480.00         | 1.019        |

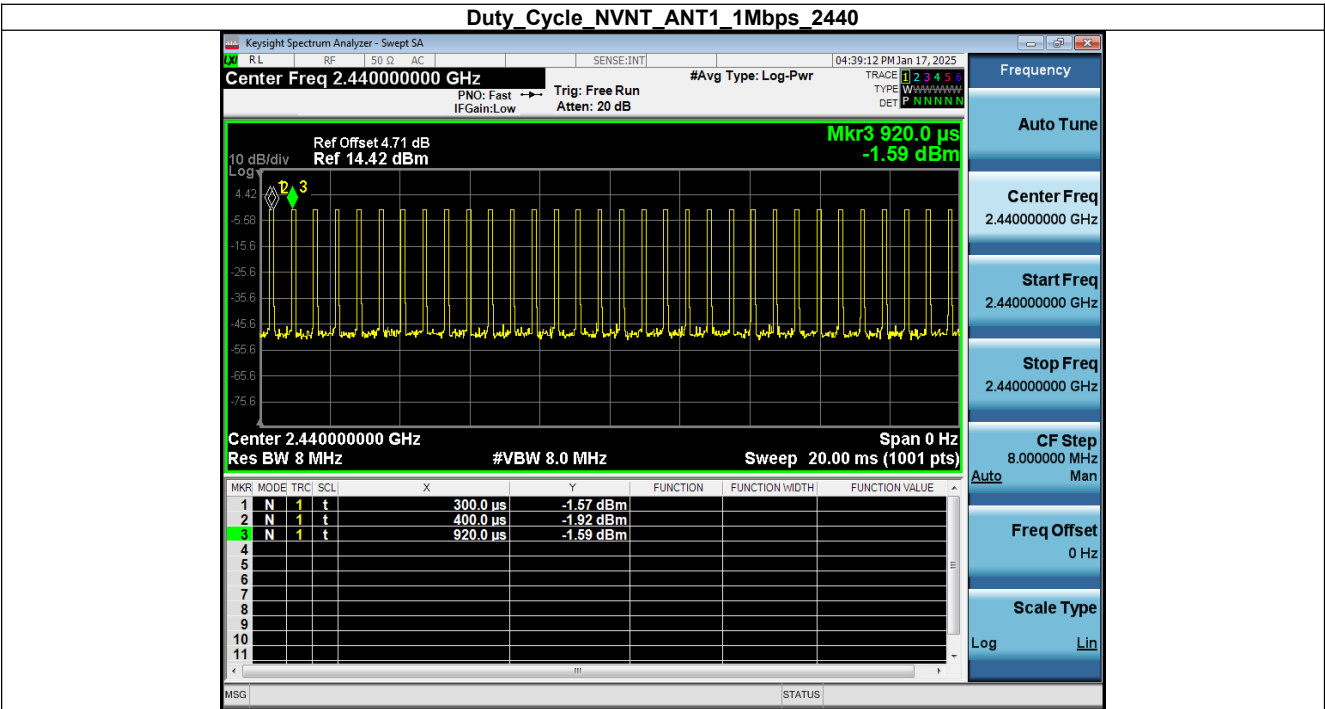
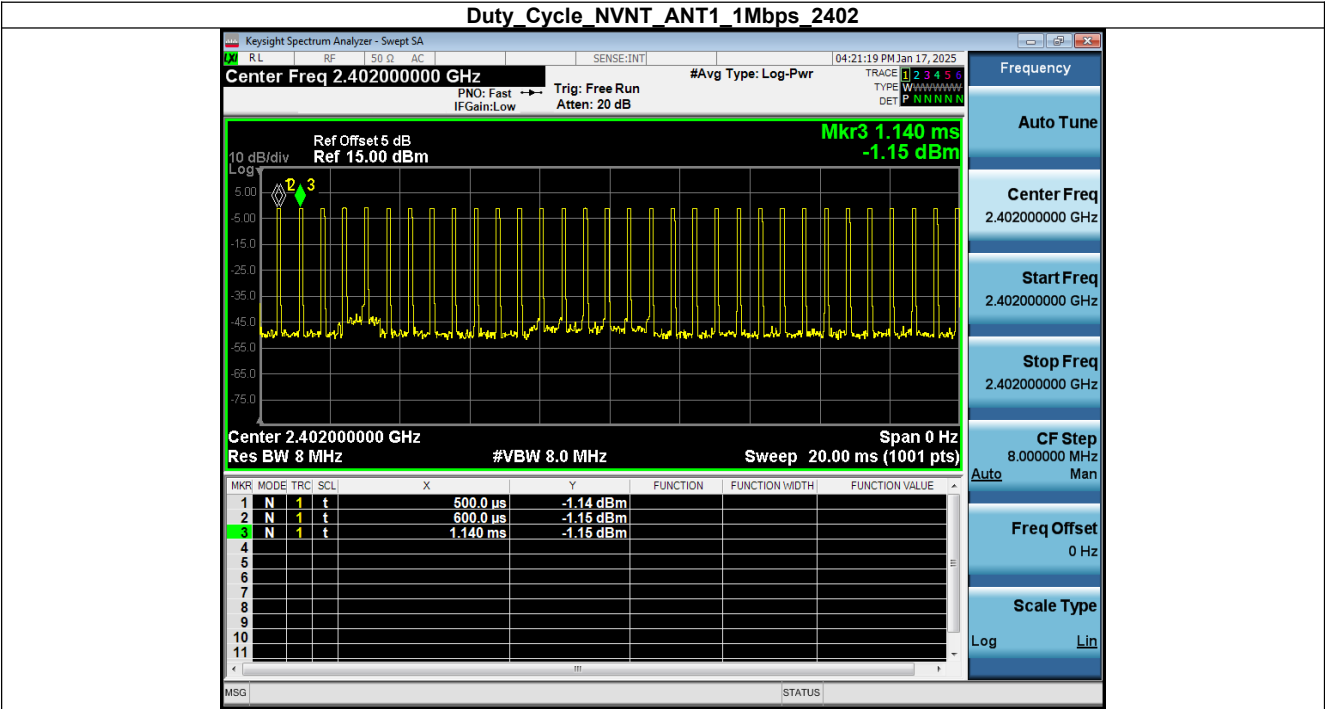


# 99% Occupied Bandwidth NVNT\_ANT1\_1Mbps\_2480

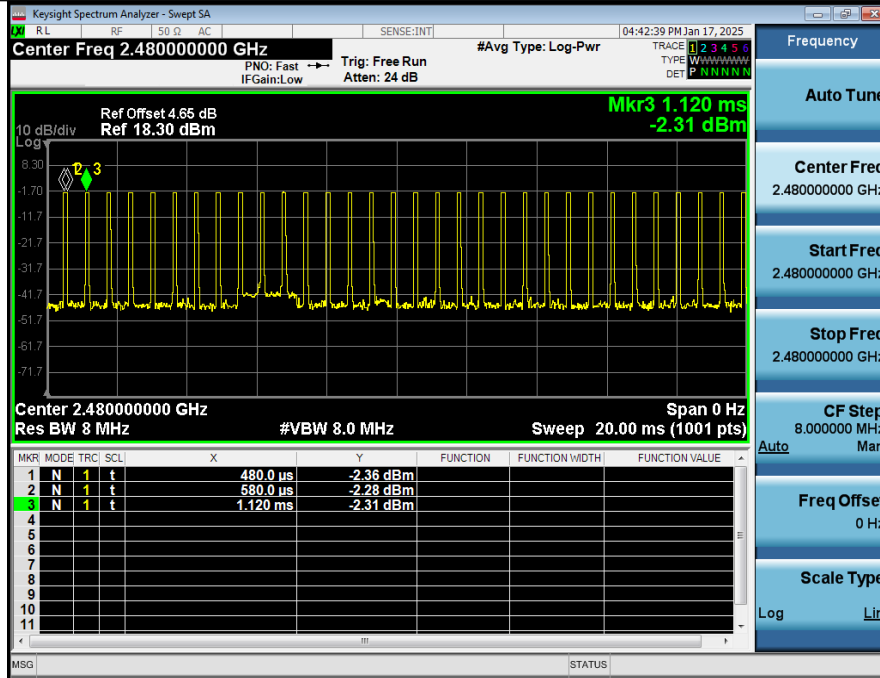


3. Duty Cycle

| Condition | Antenna | Rate  | Frequency (MHz) | Dutycycle(%) | Duty_factor |
|-----------|---------|-------|-----------------|--------------|-------------|
| NVNT      | ANT1    | 1Mbps | 2402.00         | 15.63        | 8.06        |
| NVNT      | ANT1    | 1Mbps | 2440.00         | 16.13        | 7.92        |
| NVNT      | ANT1    | 1Mbps | 2480.00         | 15.63        | 8.06        |

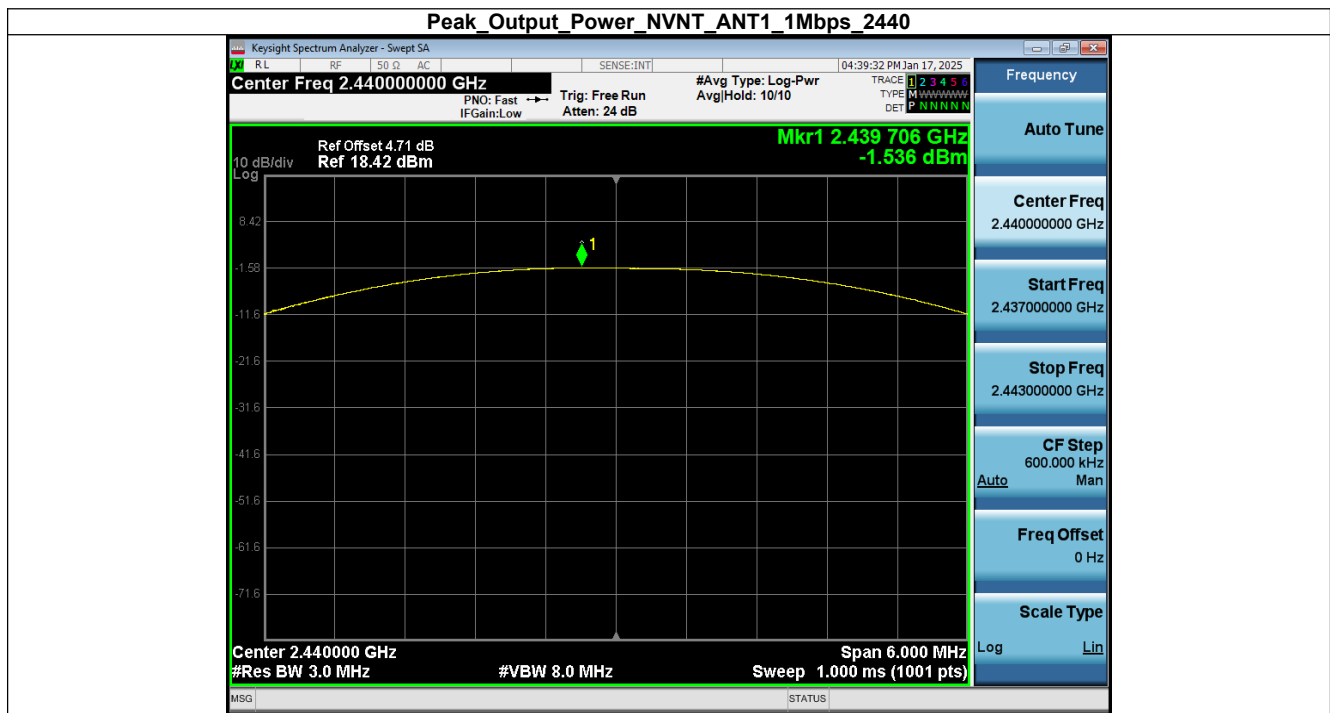
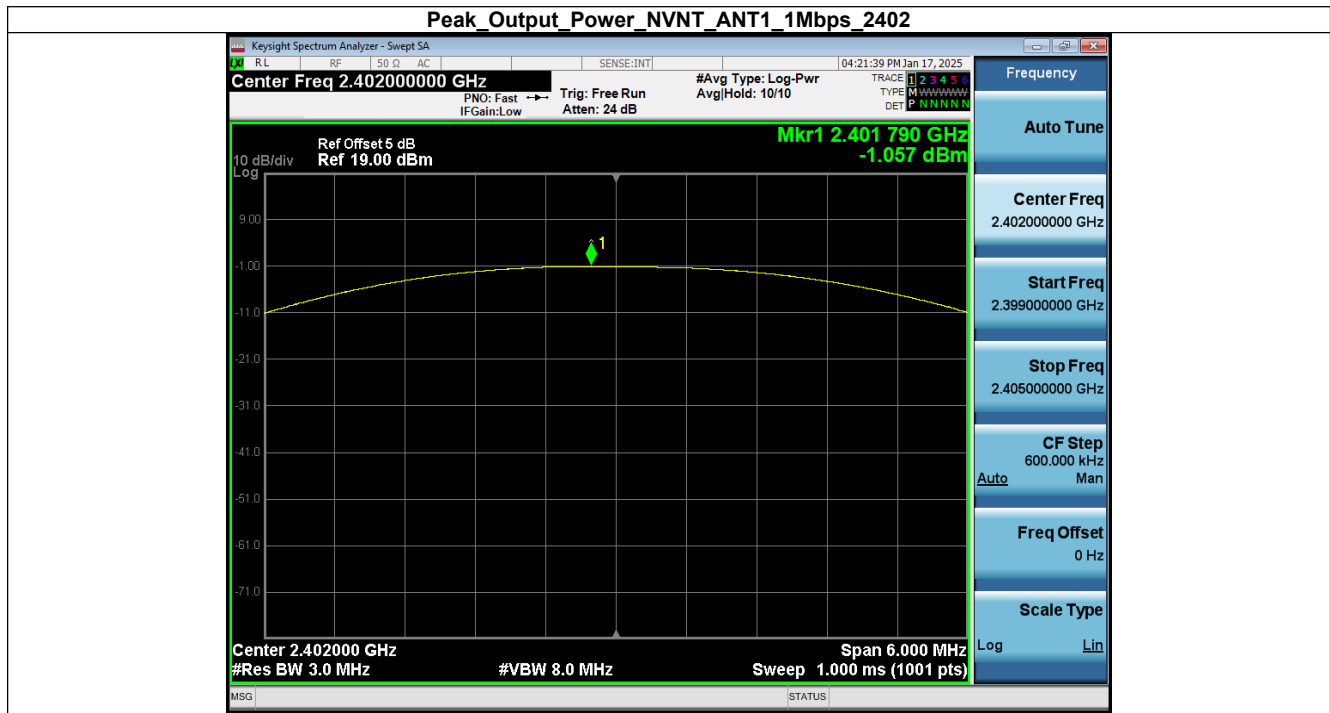


# Duty Cycle NVNT\_ANT1\_1Mbps\_2480



4. Peak Output Power

| Condition | Antenna | Rate  | Frequency (MHz) | Max. Conducted Power(dBm) | Max. Conducted Power(mW) | Limit(mW) | Result |
|-----------|---------|-------|-----------------|---------------------------|--------------------------|-----------|--------|
| NVNT      | ANT1    | 1Mbps | 2402.00         | -1.06                     | 0.78                     | 1000      | Pass   |
| NVNT      | ANT1    | 1Mbps | 2440.00         | -1.54                     | 0.70                     | 1000      | Pass   |
| NVNT      | ANT1    | 1Mbps | 2480.00         | -2.28                     | 0.59                     | 1000      | Pass   |



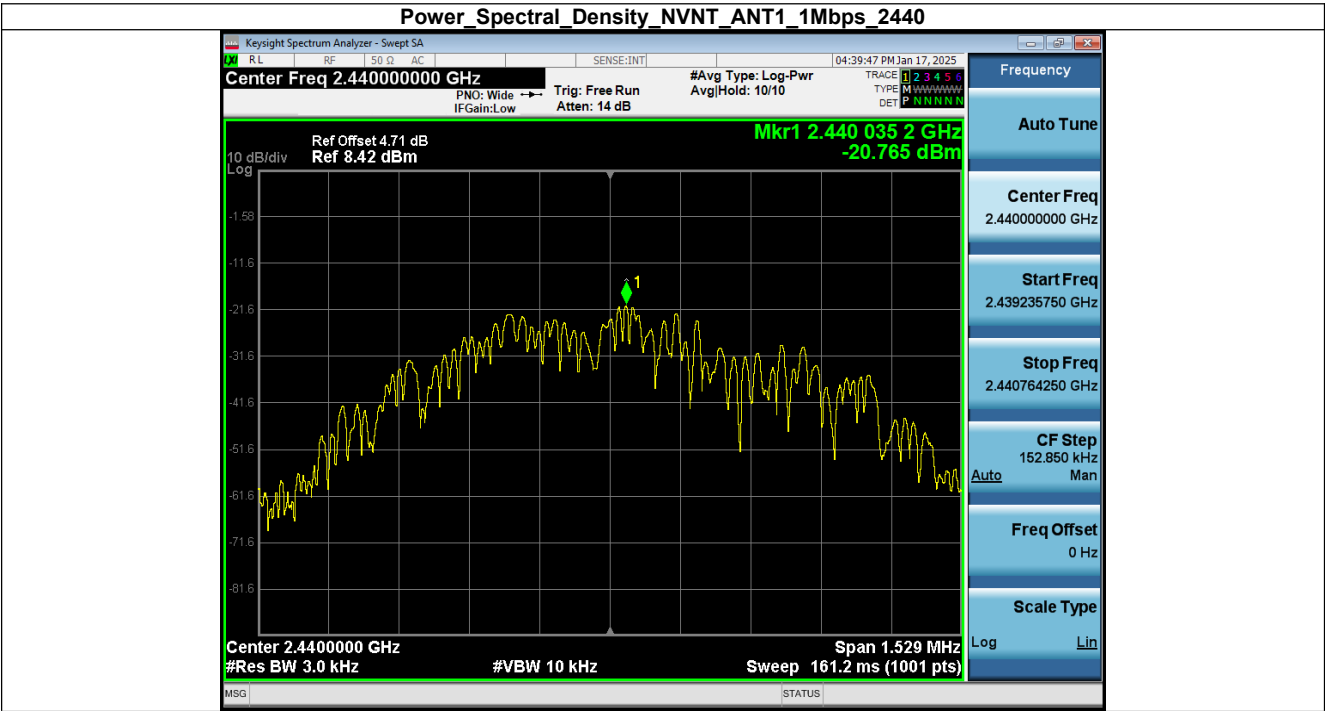
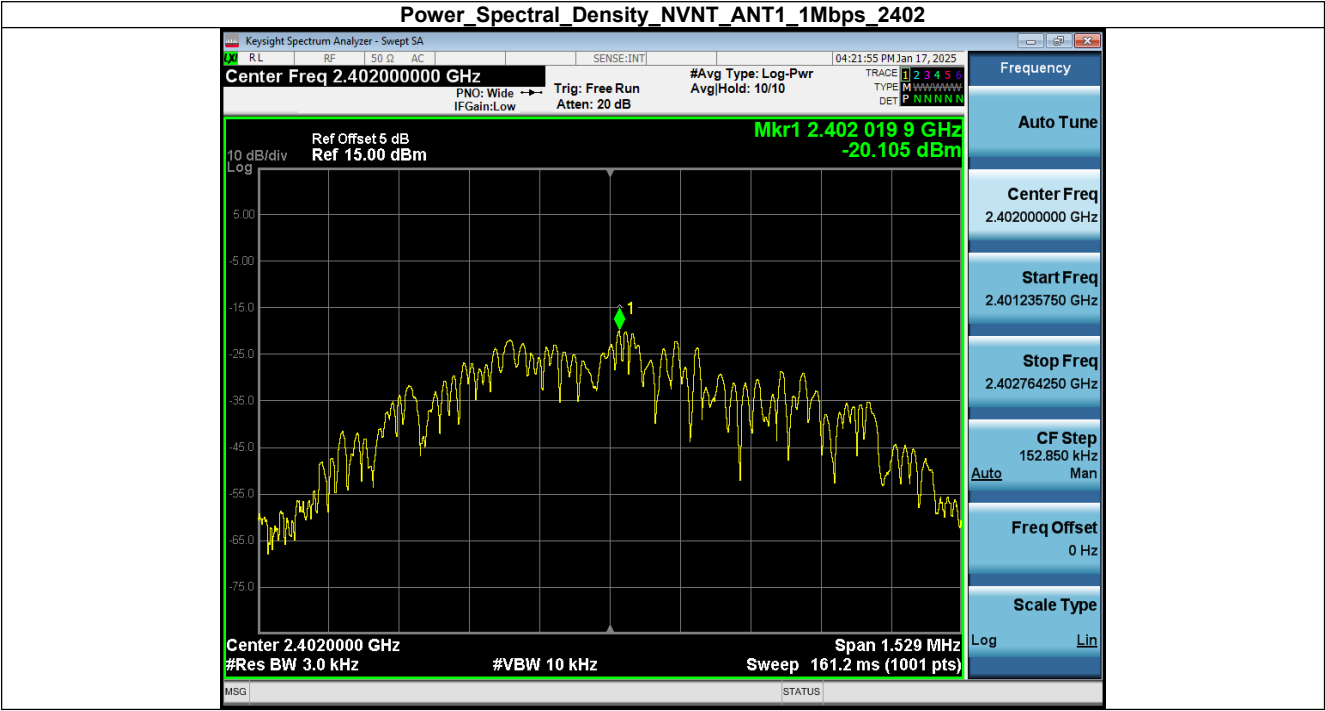


# Peak\_Output\_Power\_NVNT\_ANT1\_1Mbps\_2480

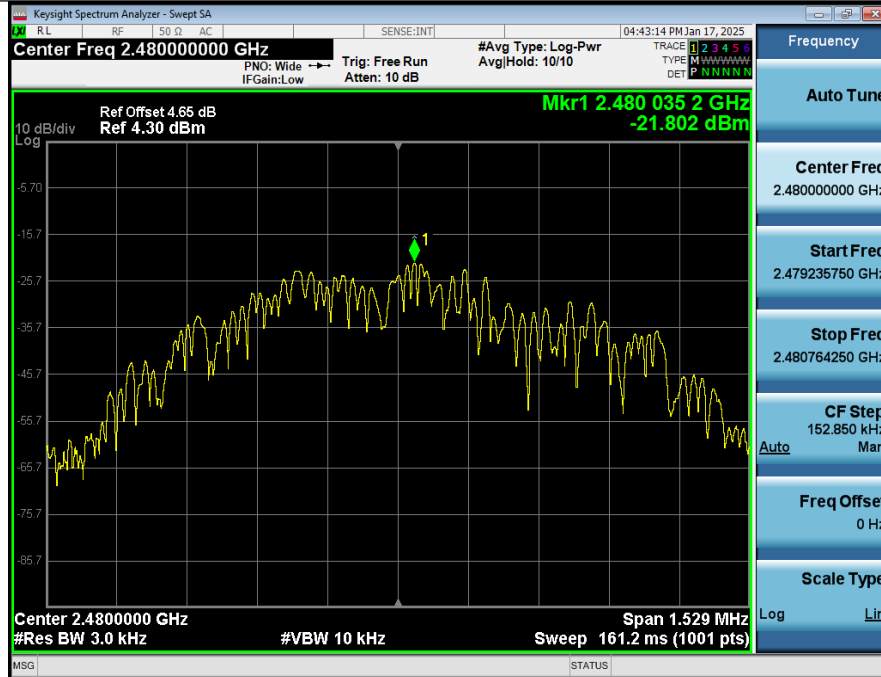


5. Power Spectral Density

| Condition | Antenna | Rate  | Frequency (MHz) | Power Spectral Density(dBm/3kHz) | Limit(dBm/3kHz) | Result |
|-----------|---------|-------|-----------------|----------------------------------|-----------------|--------|
| NVNT      | ANT1    | 1Mbps | 2402.00         | -20.11                           | 8               | Pass   |
| NVNT      | ANT1    | 1Mbps | 2440.00         | -20.77                           | 8               | Pass   |
| NVNT      | ANT1    | 1Mbps | 2480.00         | -21.80                           | 8               | Pass   |

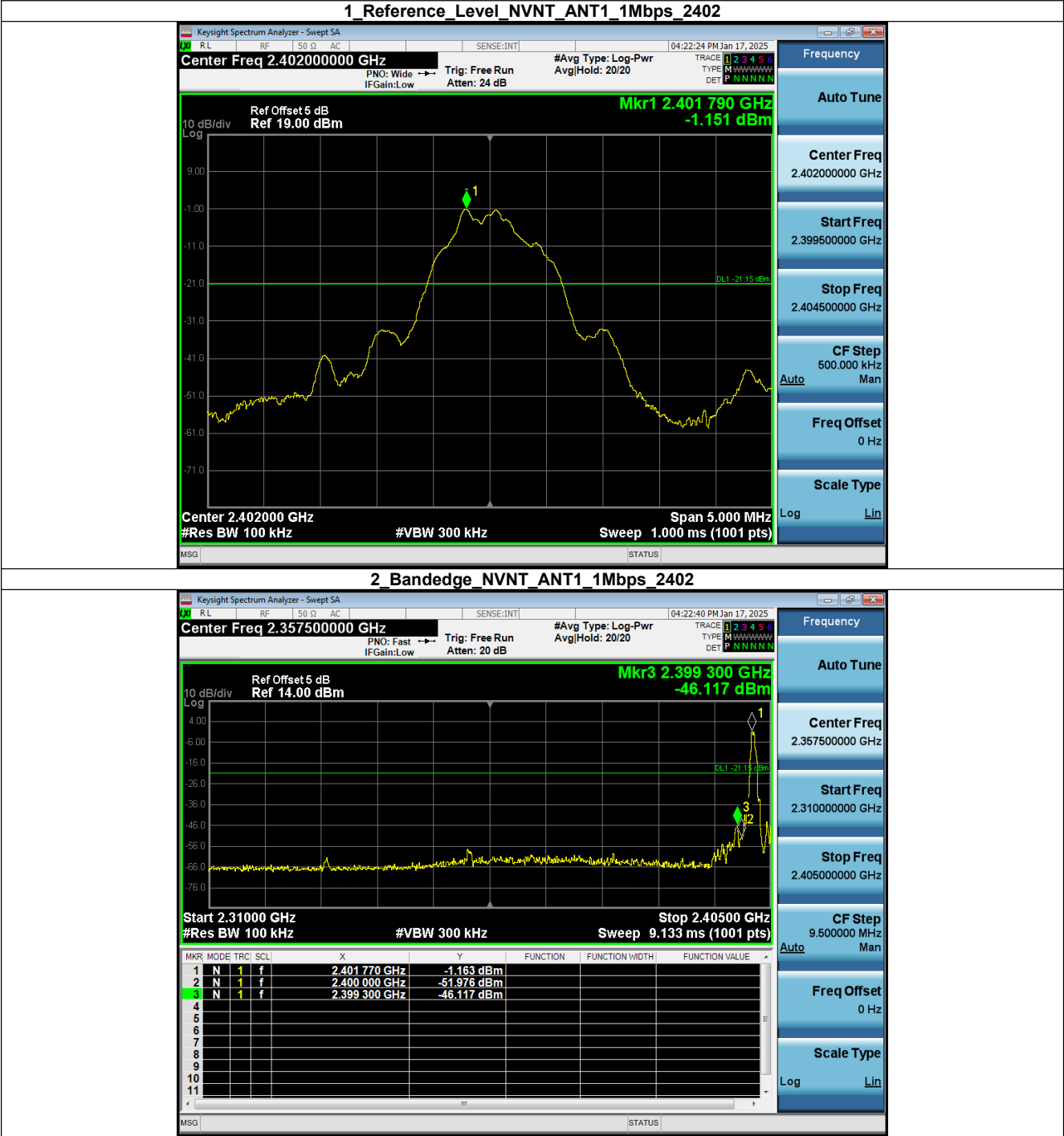


# Power Spectral Density\_NVNT\_ANT1\_1Mbps\_2480



6. Bandedge

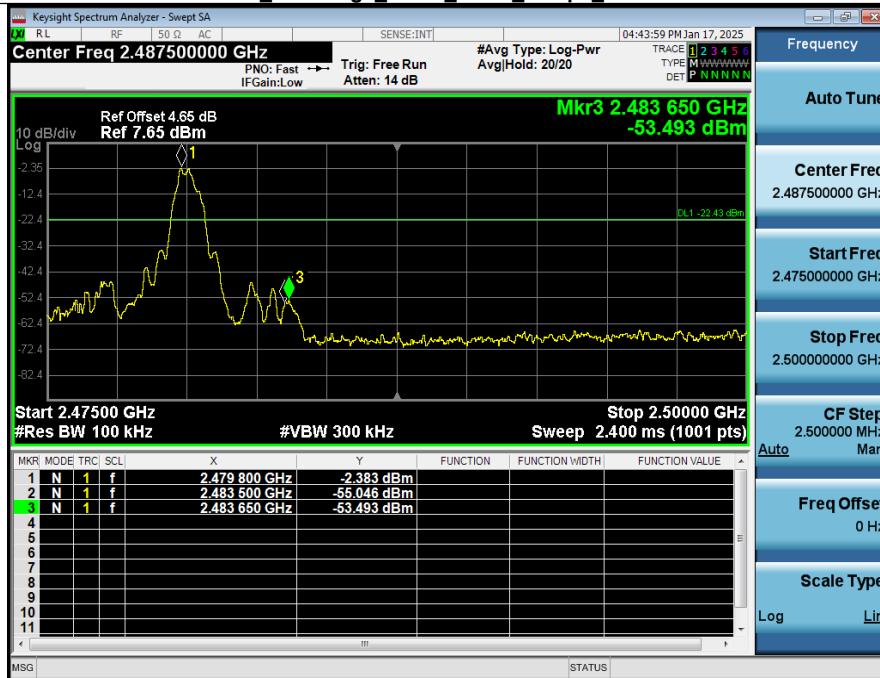
| Condition | Antenna | Modulation | TX_Frequency (MHz) | Max. Mark_freq(MHz) | Ref_level(dBm) | Spurious level(dBm) | limit(dBm) | Result |
|-----------|---------|------------|--------------------|---------------------|----------------|---------------------|------------|--------|
| NVNT      | ANT1    | 1Mbps      | 2402.00            | 2399.300            | -1.151         | -46.117             | -21.151    | Pass   |
| NVNT      | ANT1    | 1Mbps      | 2480.00            | 2483.650            | -2.430         | -53.493             | -22.430    | Pass   |



# 1 Reference\_Level\_NVNT\_ANT1\_1Mbps\_2480

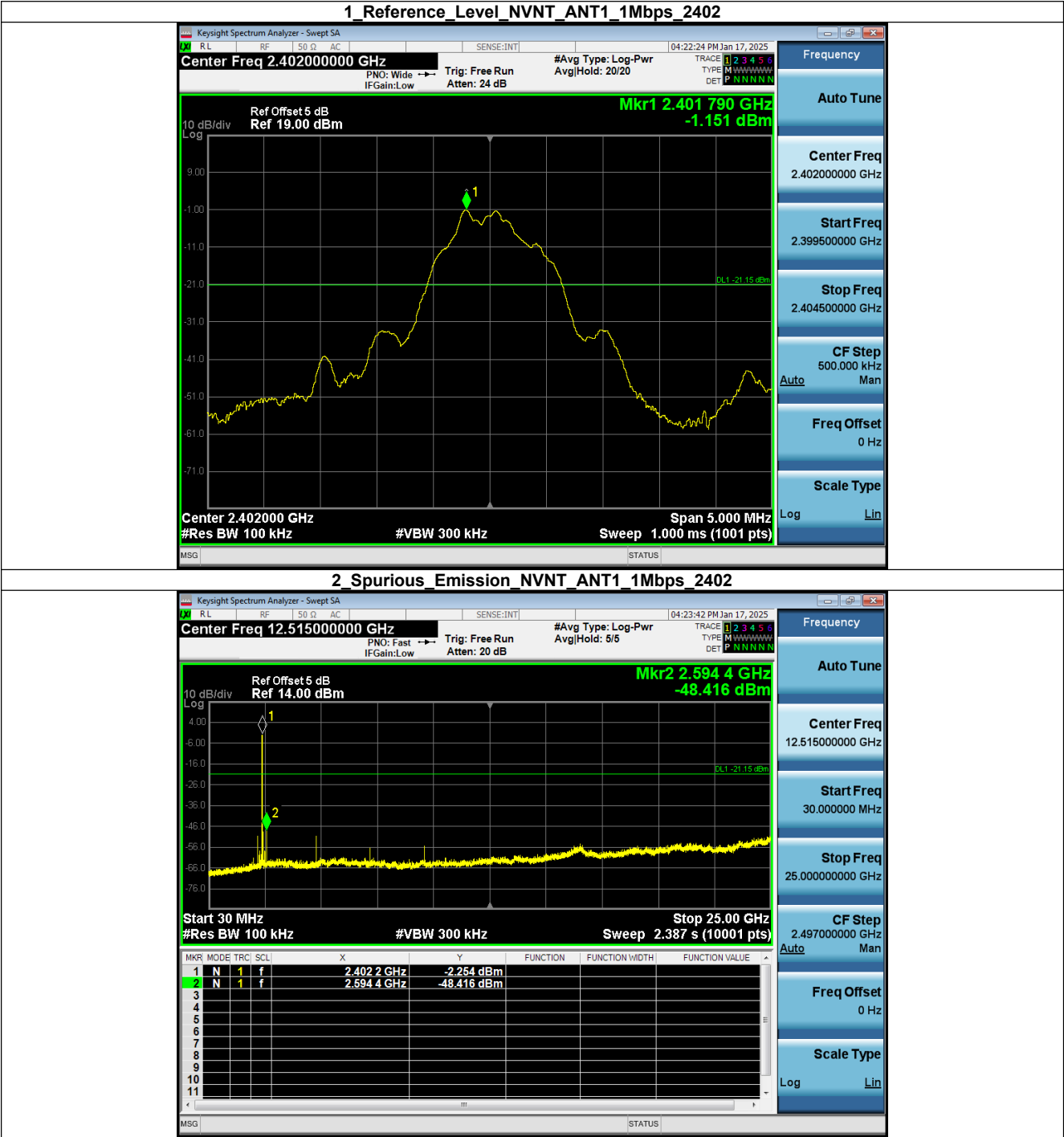


# 2 Bandedge\_NVNT\_ANT1\_1Mbps\_2480



7. Spurious Emission

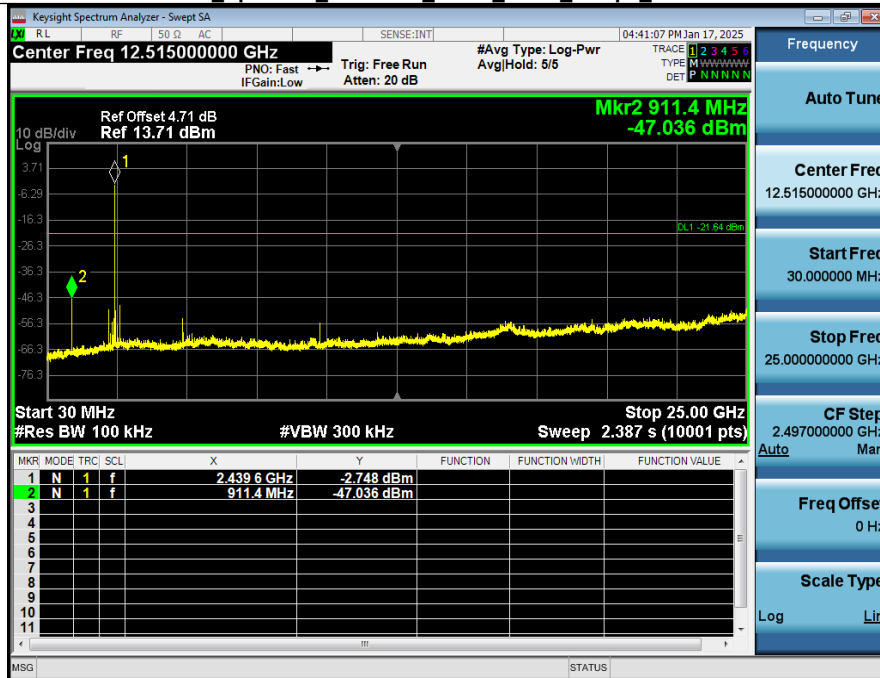
| Condition | Antenna | Modulation | TX_Frequency (MHz) | Ref_level(dBm) | Spurious level(dBm) | limit(dBm) | Result |
|-----------|---------|------------|--------------------|----------------|---------------------|------------|--------|
| NVNT      | ANT1    | 1Mbps      | 2402.00            | -1.151         | -48.416             | -21.151    | Pass   |
| NVNT      | ANT1    | 1Mbps      | 2440.00            | -1.639         | -47.036             | -21.639    | Pass   |
| NVNT      | ANT1    | 1Mbps      | 2480.00            | -2.430         | -46.839             | -22.430    | Pass   |



# 1 Reference\_Level\_NVNT\_ANT1\_1Mbps\_2440



# 2 Spurious Emission\_NVNT\_ANT1\_1Mbps\_2440



# 1 Reference\_Level\_NVNT\_ANT1\_1Mbps\_2480



# 2 Spurious Emission\_NVNT\_ANT1\_1Mbps\_2480

