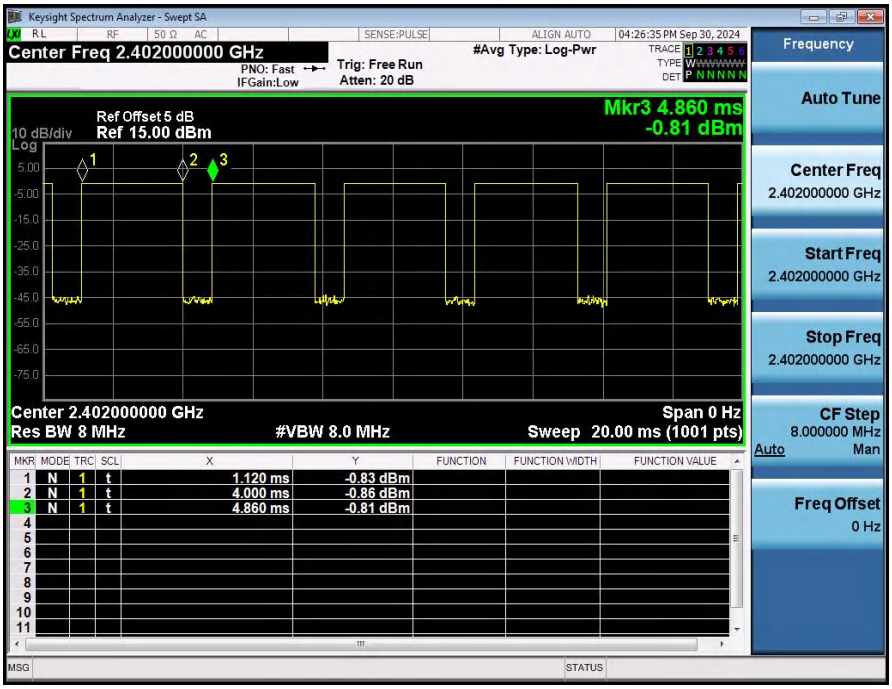
# Appendix Test Data

| | | | |
|---|---|---|---|
| Report No.: | 1812C40088412501 | Test Sample No.: | 1-2-2 |
| Start Test Date: | 2024.9.30 | Finish Test Date: | 2024.9.30 |
| Test Engineer: | Joker Wang | Auditor: | Justin Feng |
| Temperature: | 22℃ | Relative Humidity: | 48% |
| Pressure: | 101kPa | | |

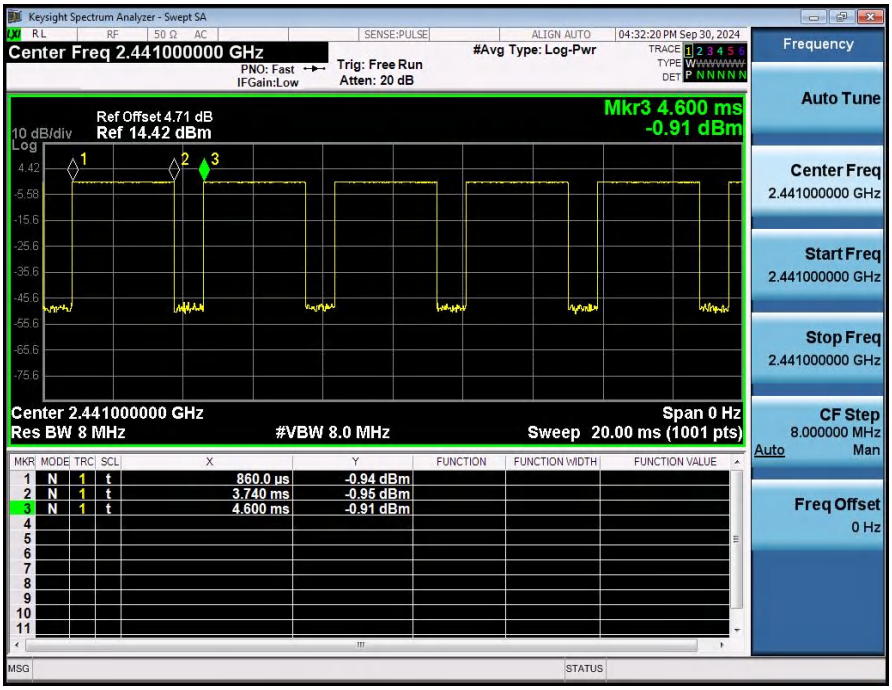
## Appendix A: Duty Cycle

| Condition | Antenna | Rate | Frequency (MHz) | Dutycycle(%) | Duty_factor |
|---|---|---|---|---|---|
| NVNT | ANT1 | 1-DH5 | 2402.00 | 77.54 | 1.10 |
| NVNT | ANT1 | 1-DH5 | 2441.00 | 77.54 | 1.10 |
| NVNT | ANT1 | 1-DH5 | 2480.00 | 77.54 | 1.10 |
| NVNT | ANT1 | 2-DH5 | 2402.00 | 77.13 | 1.13 |
| NVNT | ANT1 | 2-DH5 | 2441.00 | 77.54 | 1.10 |
| NVNT | ANT1 | 2-DH5 | 2480.00 | 77.66 | 1.10 |
| NVNT | ANT1 | 3-DH5 | 2402.00 | 77.54 | 1.10 |
| NVNT | ANT1 | 3-DH5 | 2441.00 | 77.01 | 1.13 |
| NVNT | ANT1 | 3-DH5 | 2480.00 | 77.54 | 1.10 |

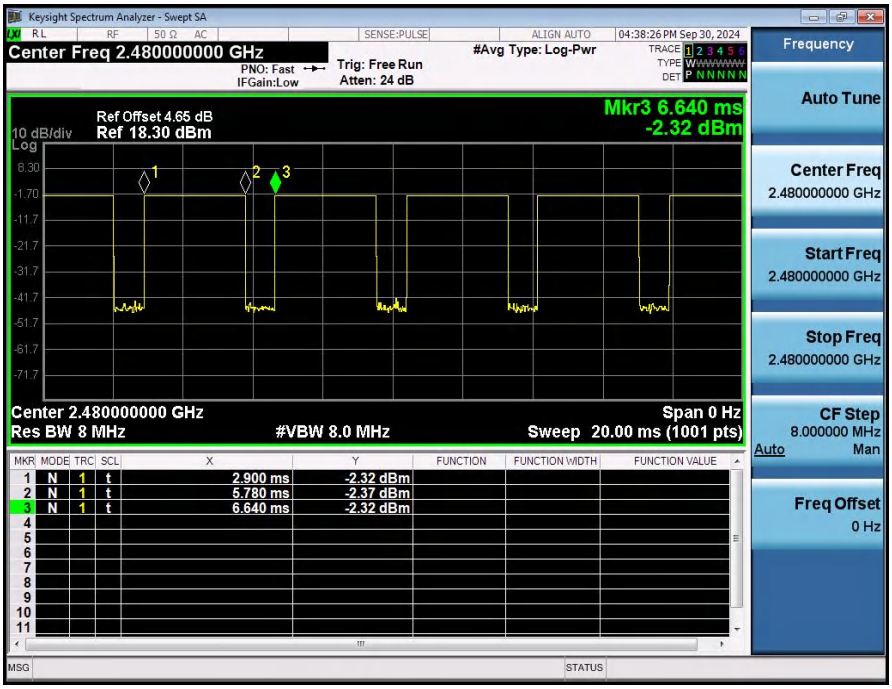
**Duty_Cycle_NVNT_ANT1_1-DH5_2402**



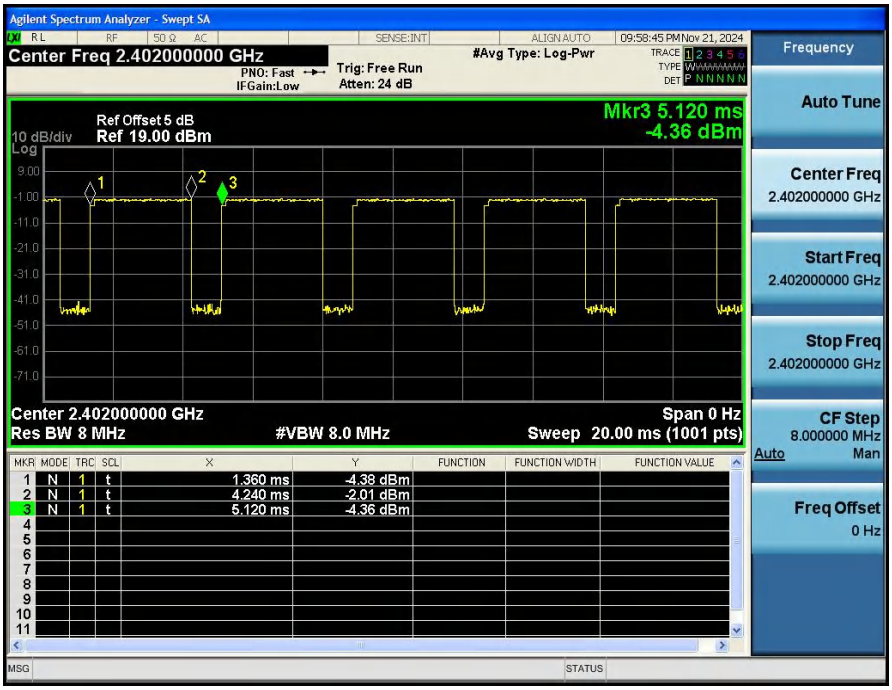

**Duty_Cycle_NVNT_ANT1_1-DH5_2441**



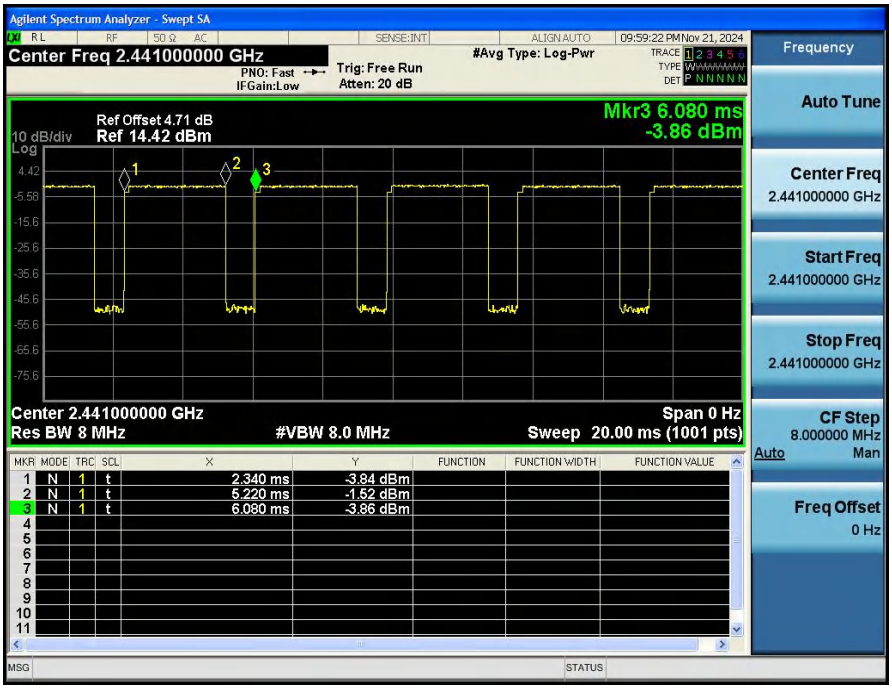

**Duty_Cycle_NVNT_ANT1_1-DH5_2480**



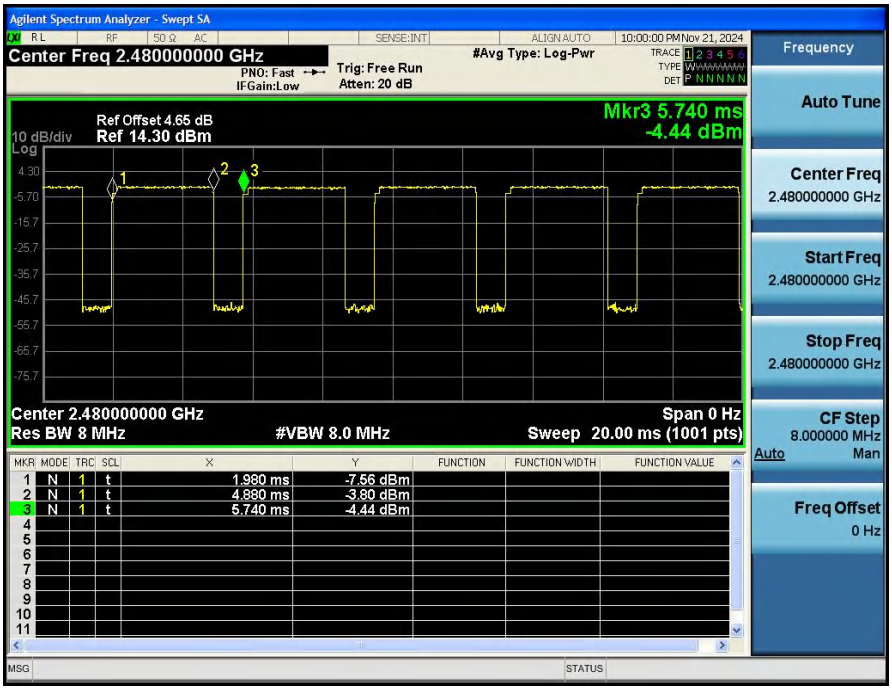

Duty_Cycle_NVNT_ANT1_2-DH5_2402



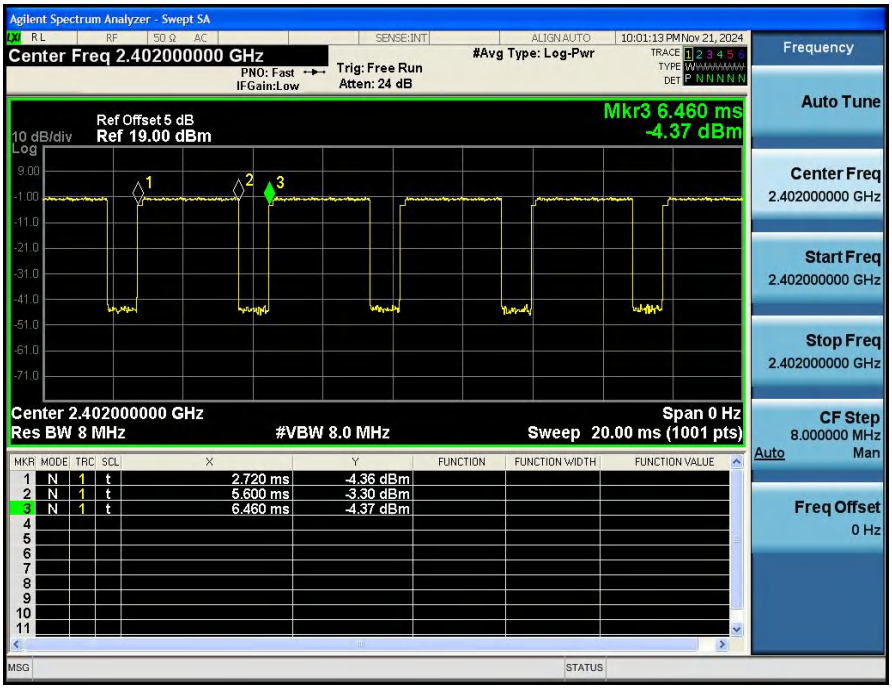

Duty_Cycle_NVNT_ANT1_2-DH5_2441



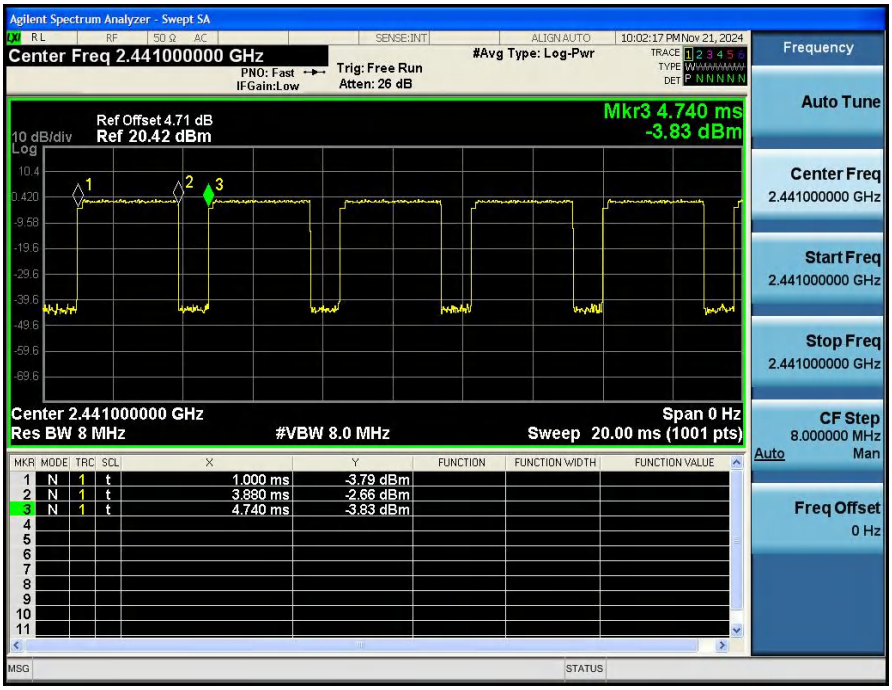

**Duty_Cycle_NVNT_ANT1_2-DH5_2480**



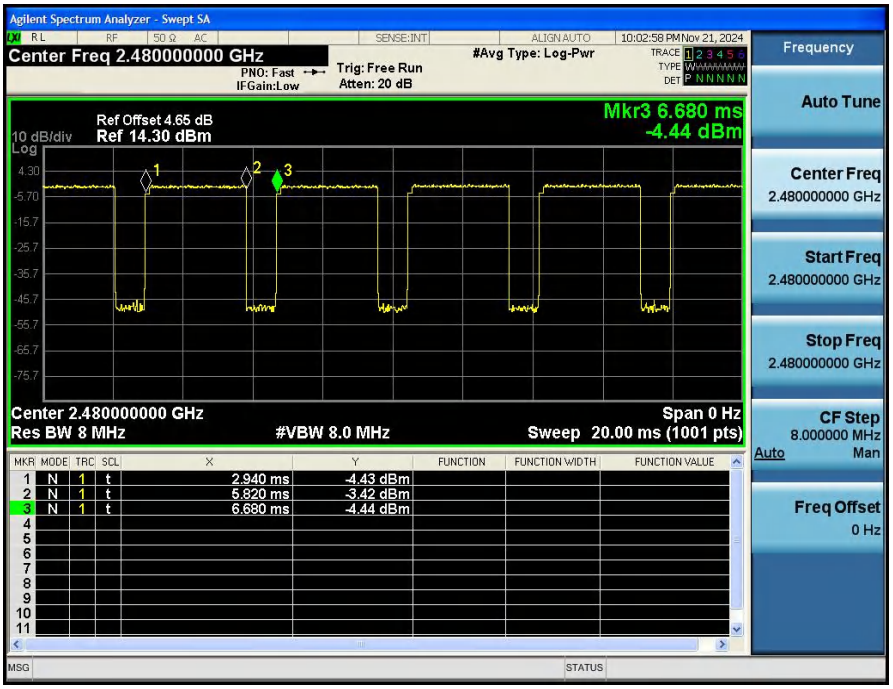

**Duty_Cycle_NVNT_ANT1_3-DH5_2402**




**Duty_Cycle_NVNT_ANT1_3-DH5_2441**



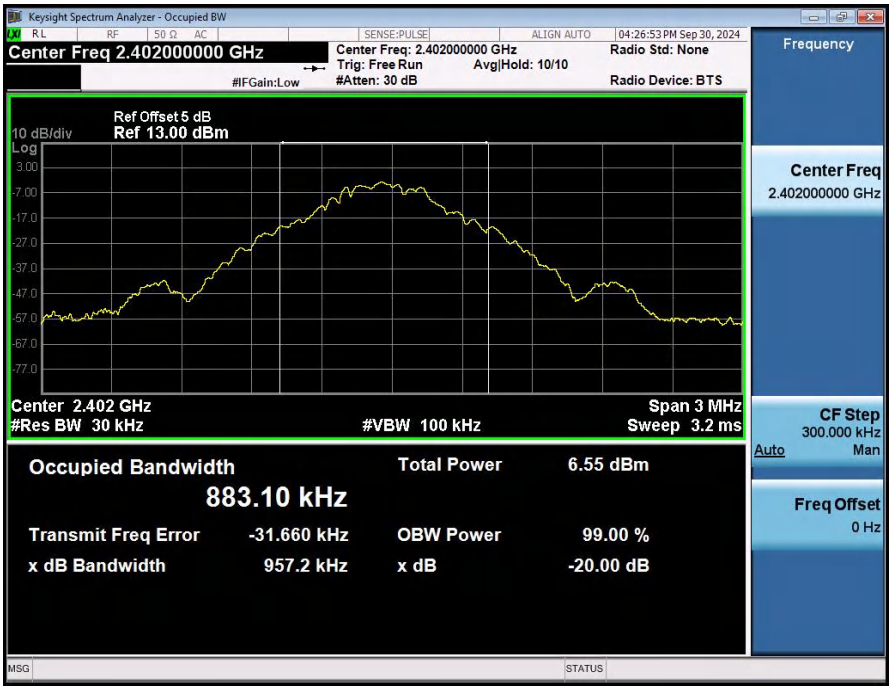

**Duty_Cycle_NVNT_ANT1_3-DH5_2480**


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.480000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 20 dB
#Avg Type: Log-Pwr
10:02:58 PM Nov 21, 2024
Ref Offset 4.65 dB
10 dB/div Ref 14.30 dBm
Log
Mkr3 6.680 ms
-4.44 dBm
Center 2.480000000 GHz
Res BW 8 MHz
#VBW 8.0 MHz
Span 0 Hz
Sweep 20.00 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 t 2.940 ms -4.43 dBm
2 N 1 t 5.820 ms -3.42 dBm
3 N 1 t 6.680 ms -4.44 dBm
Frequency
Auto Tune
Center Freq
2.480000000 GHz
Start Freq
2.480000000 GHz
Stop Freq
2.480000000 GHz
CF Step
8.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

# Appendix B: -20dB Bandwidth

| Condition | Antenna | Modulation | Frequency (MHz) | -20dB BW(MHz) | if larger than CFS |
|---|---|---|---|---|---|
| NVNT | ANT1 | 1-DH5 | 2402.00 | 0.957 | No |
| NVNT | ANT1 | 1-DH5 | 2441.00 | 0.965 | No |
| NVNT | ANT1 | 1-DH5 | 2480.00 | 1.026 | Yes |
| NVNT | ANT1 | 2-DH5 | 2402.00 | 1.286 | Yes |
| NVNT | ANT1 | 2-DH5 | 2441.00 | 1.288 | Yes |
| NVNT | ANT1 | 2-DH5 | 2480.00 | 1.290 | Yes |
| NVNT | ANT1 | 3-DH5 | 2402.00 | 1.291 | Yes |
| NVNT | ANT1 | 3-DH5 | 2441.00 | 1.298 | Yes |
| NVNT | ANT1 | 3-DH5 | 2480.00 | 1.304 | Yes |

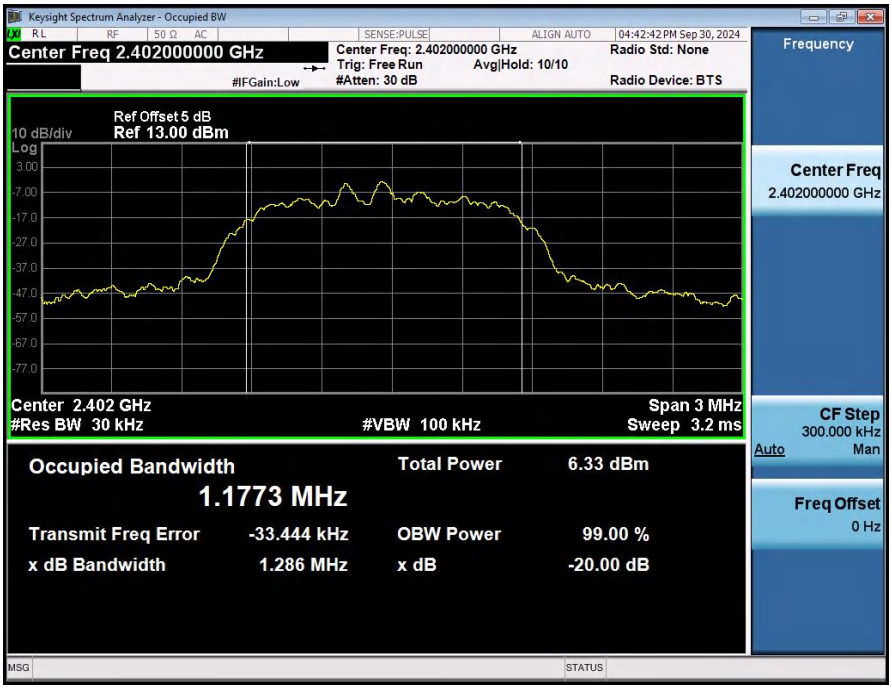
**-20dB_Bandwidth_NVNT_ANT1_1-DH5_2402_00**



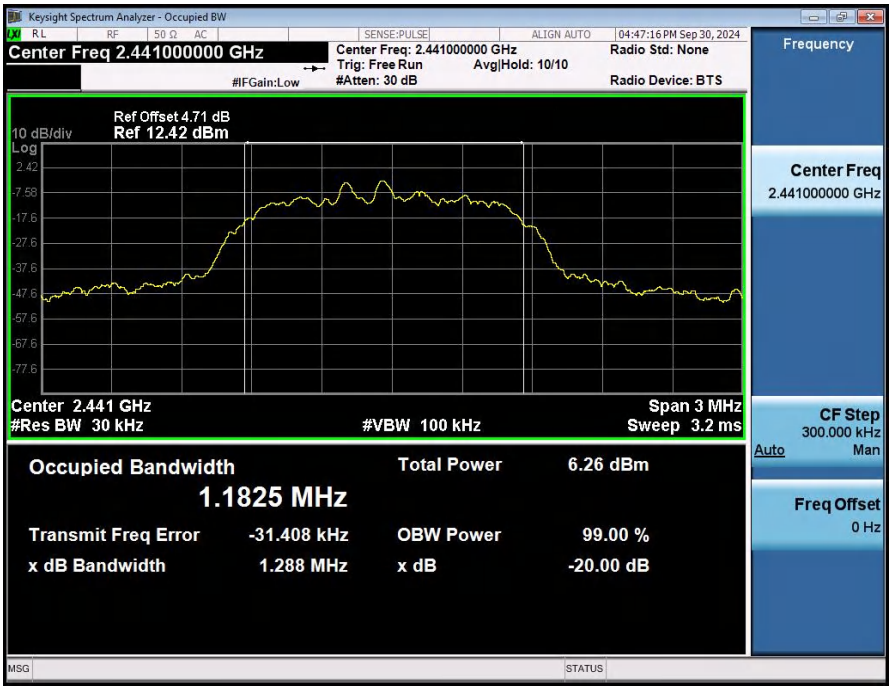

**-20dB_Bandwidth_NVNT_ANT1_1-DH5_2441_00**


-20dB_Bandwidth_NVNT_ANT1_1-DH5_2480_00

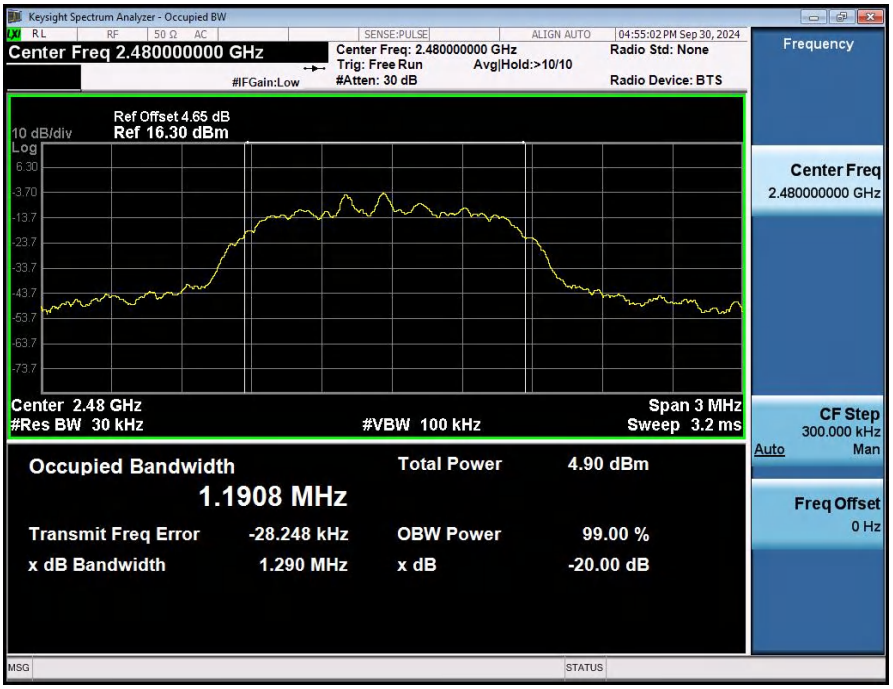

-20dB_Bandwidth_NVNT_ANT1_2-DH5_2402_00



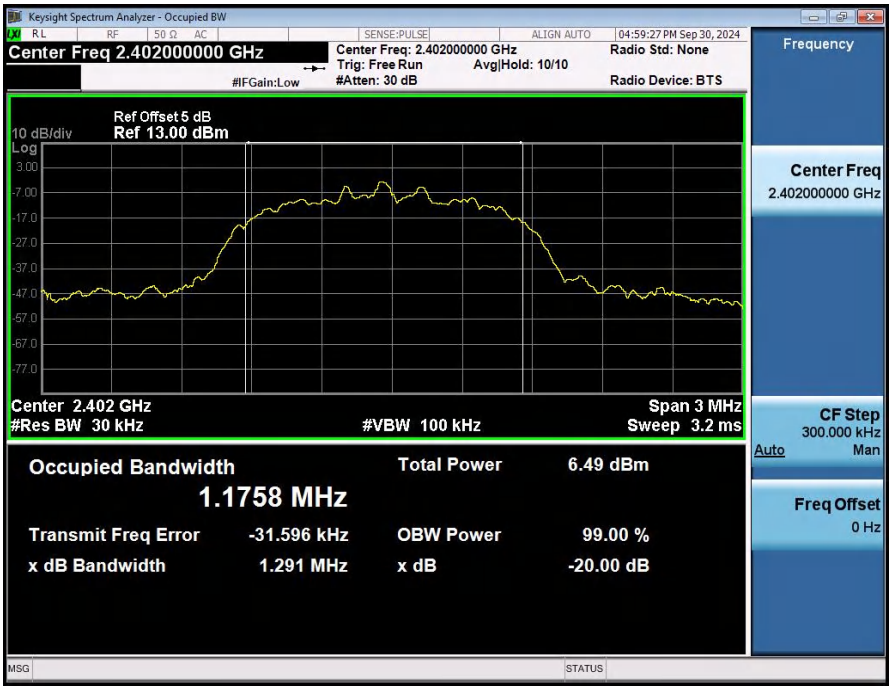

-20dB_Bandwidth_NVNT_ANT1_2-DH5_2441_00



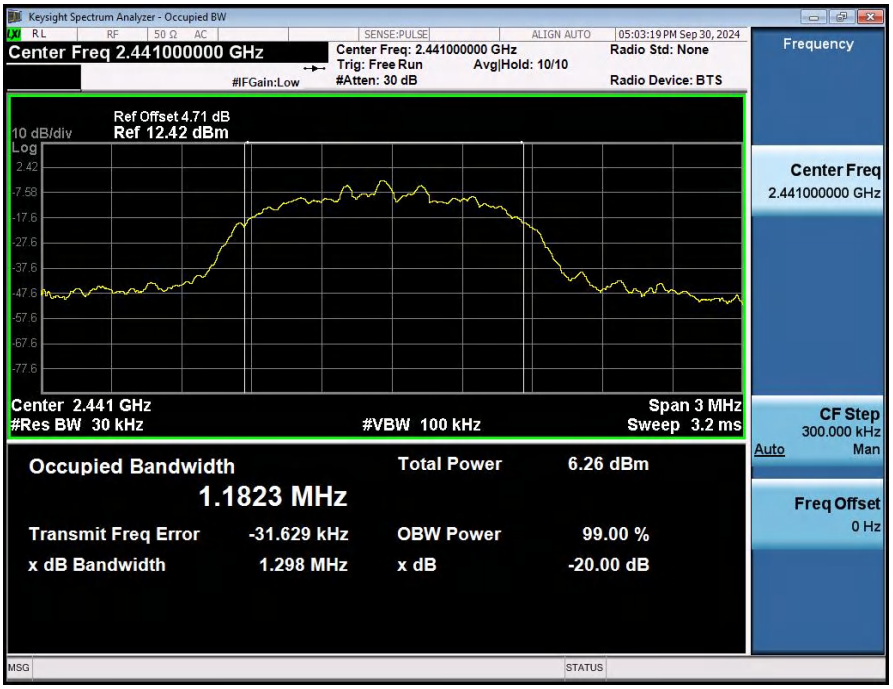

-20dB_Bandwidth_NVNT_ANT1_2-DH5_2480_00



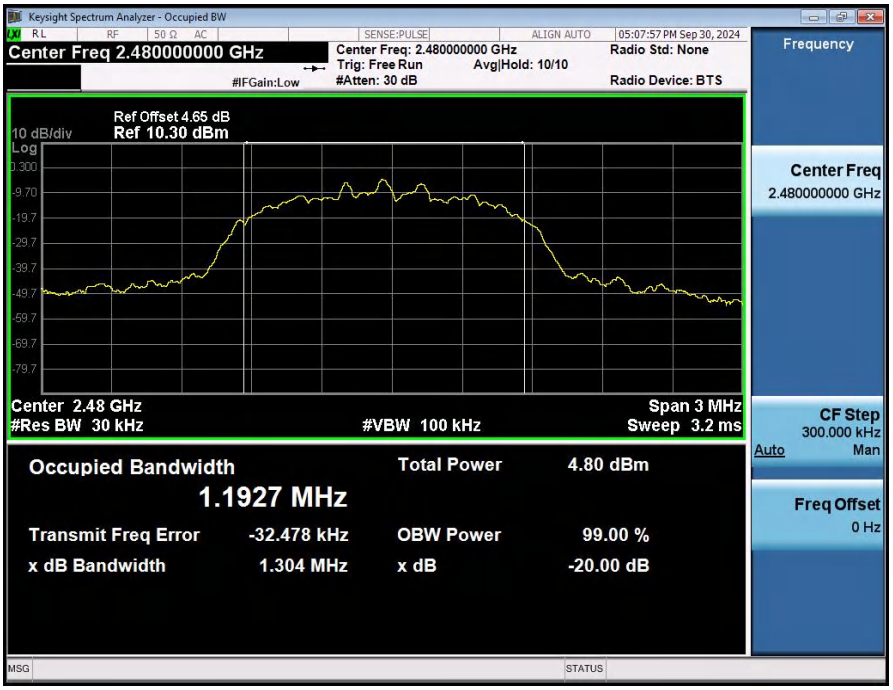

-20dB_Bandwidth_NVNT_ANT1_3-DH5_2402_00




-20dB_Bandwidth_NVNT_ANT1_3-DH5_2441_00



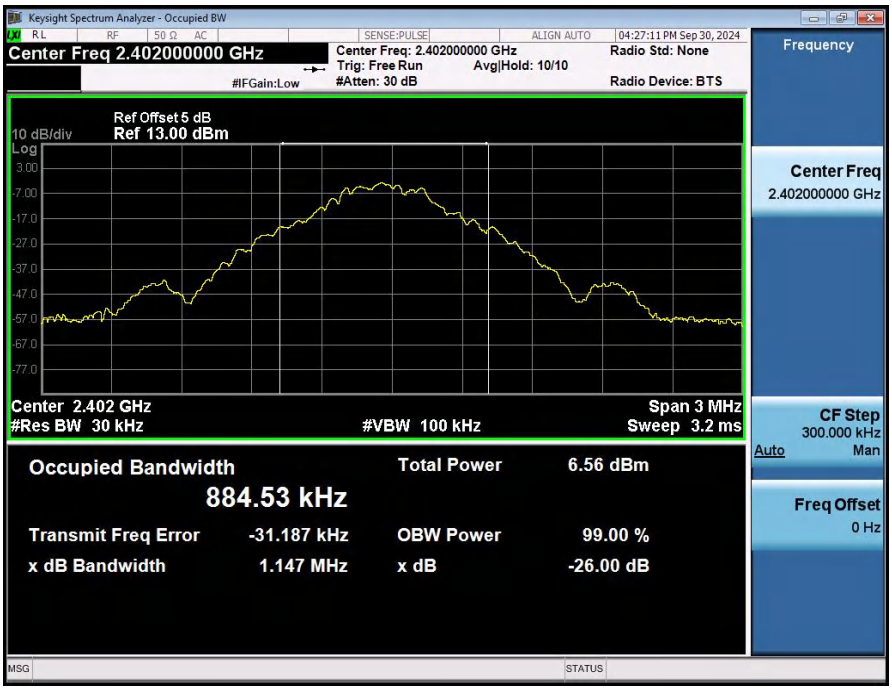

-20dB_Bandwidth_NVNT_ANT1_3-DH5_2480_00



# Appendix C: 99% Occupied Bandwidth

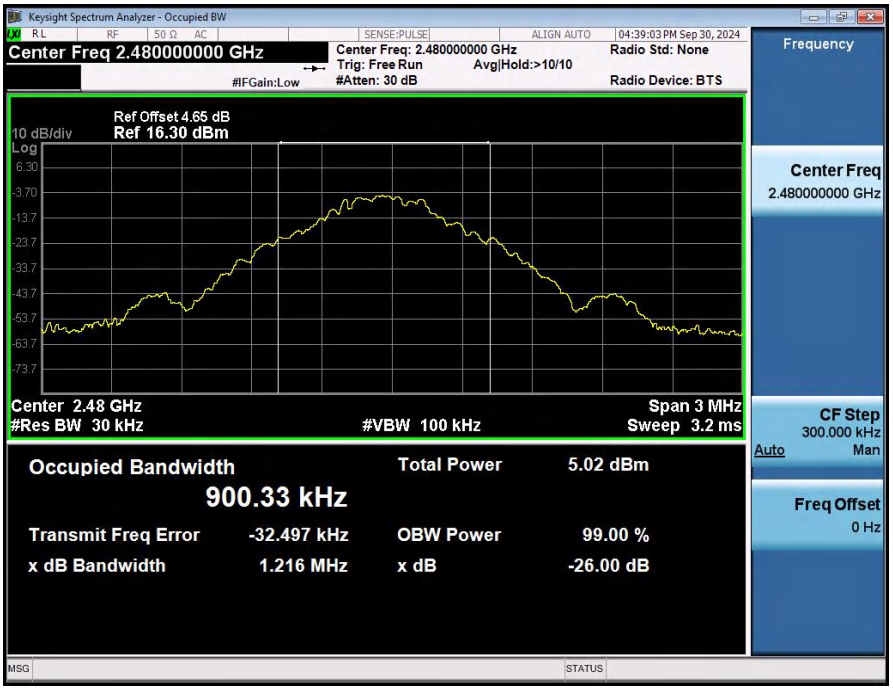
| Condition | Antenna | Modulation | Frequency (MHz) | 99%BW(MHz) |
|---|---|---|---|---|
| NVNT | ANT1 | 1-DH5 | 2402.00 | 0.885 |
| NVNT | ANT1 | 1-DH5 | 2441.00 | 0.888 |
| NVNT | ANT1 | 1-DH5 | 2480.00 | 0.900 |
| NVNT | ANT1 | 2-DH5 | 2402.00 | 1.176 |
| NVNT | ANT1 | 2-DH5 | 2441.00 | 1.186 |
| NVNT | ANT1 | 2-DH5 | 2480.00 | 1.185 |
| NVNT | ANT1 | 3-DH5 | 2402.00 | 1.176 |
| NVNT | ANT1 | 3-DH5 | 2441.00 | 1.181 |
| NVNT | ANT1 | 3-DH5 | 2480.00 | 1.192 |

**99%_Occupied_Bandwidth_NVNT_ANT1_1-DH5_2402_00**

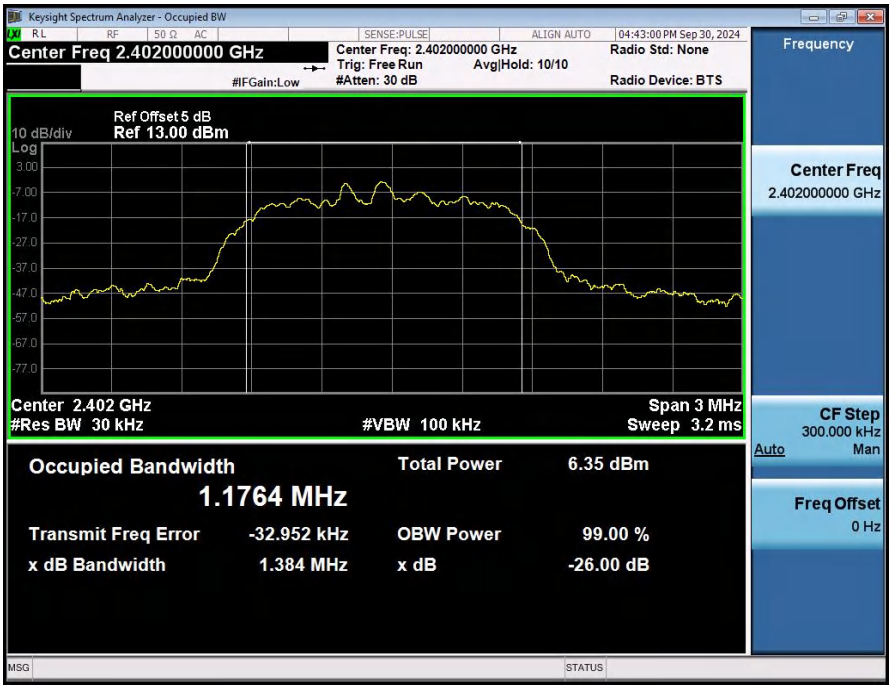



**99%_Occupied_Bandwidth_NVNT_ANT1_1-DH5_2441_00**

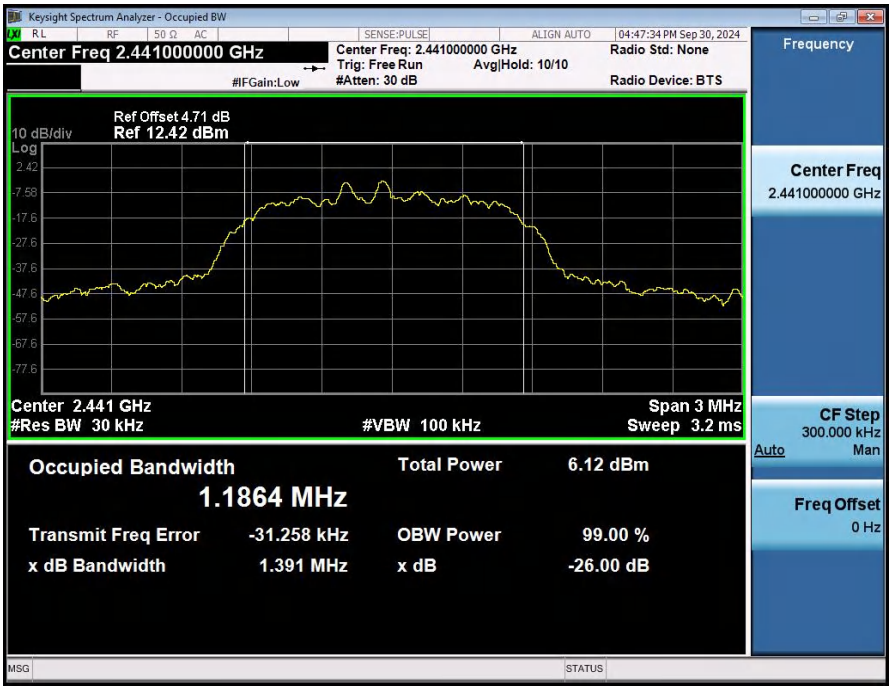

99%_Occupied_Bandwidth_NVNT_ANT1_1-DH5_2480_00



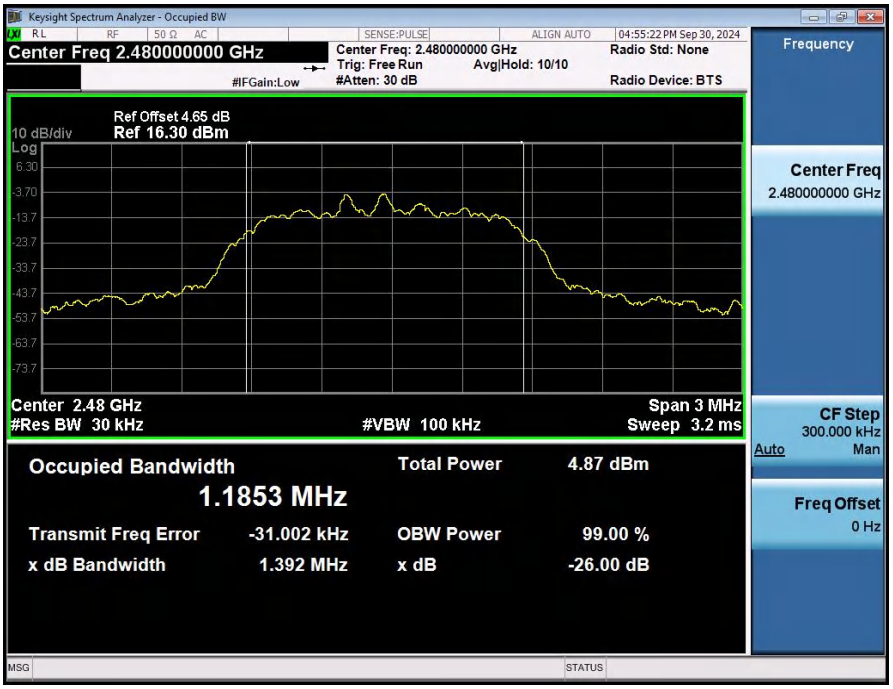

99%_Occupied_Bandwidth_NVNT_ANT1_2-DH5_2402_00



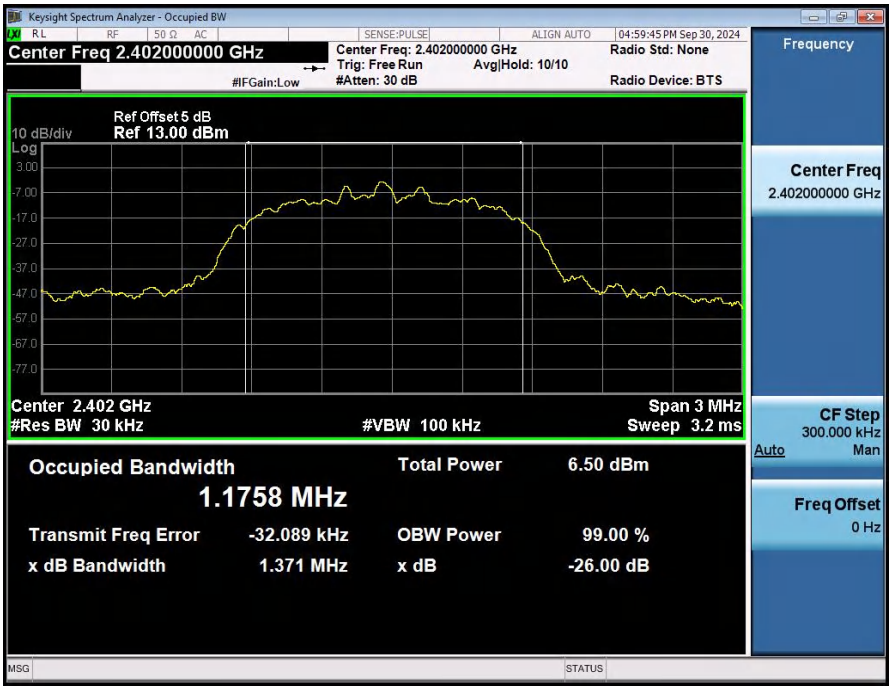

99%_Occupied_Bandwidth_NVNT_ANT1_2-DH5_2441_00



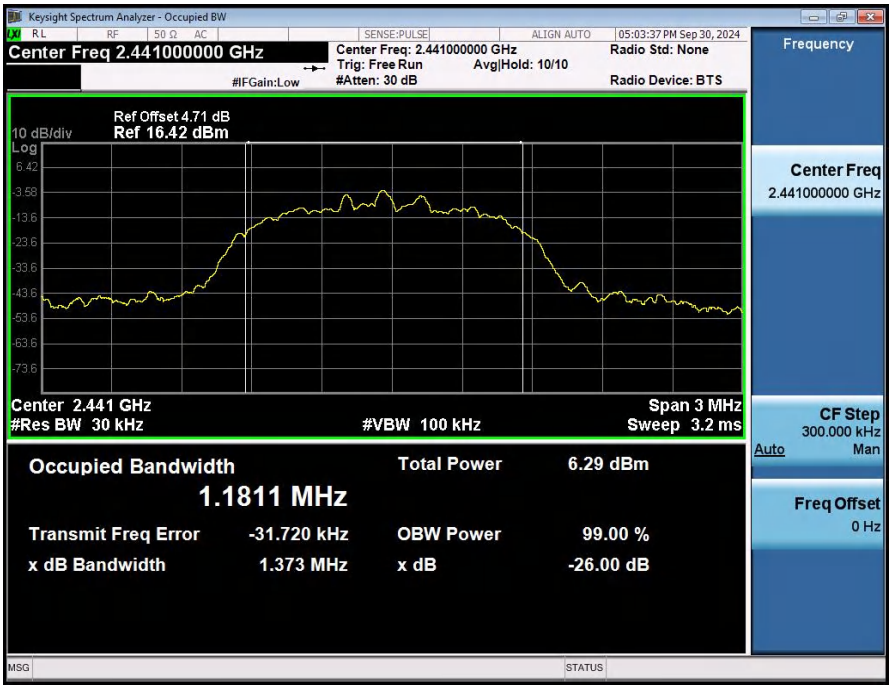

99%_Occupied_Bandwidth_NVNT_ANT1_2-DH5_2480_00



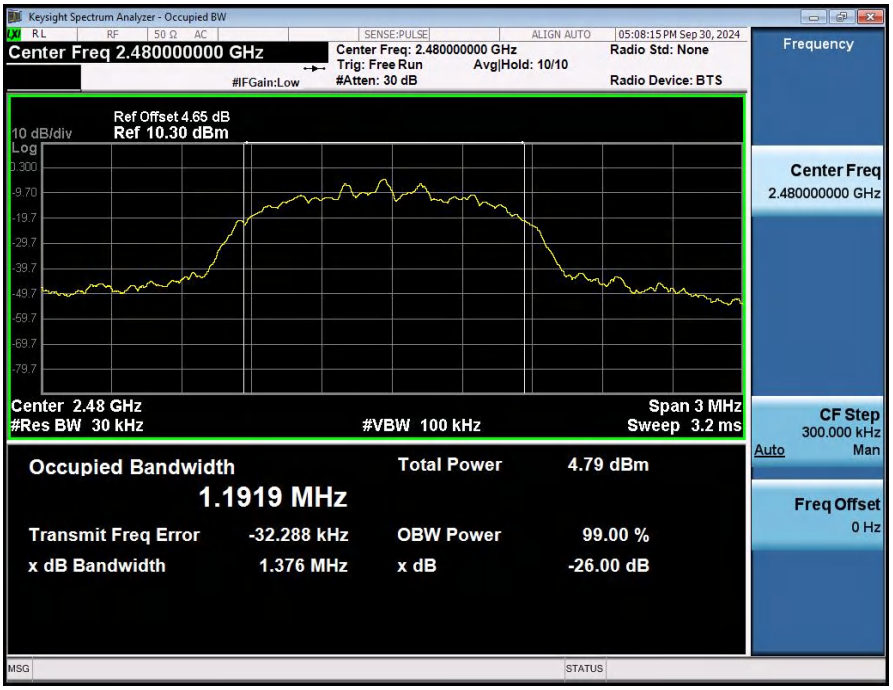

99%_Occupied_Bandwidth_NVNT_ANT1_3-DH5_2402_00




99%_Occupied_Bandwidth_NVNT_ANT1_3-DH5_2441_00



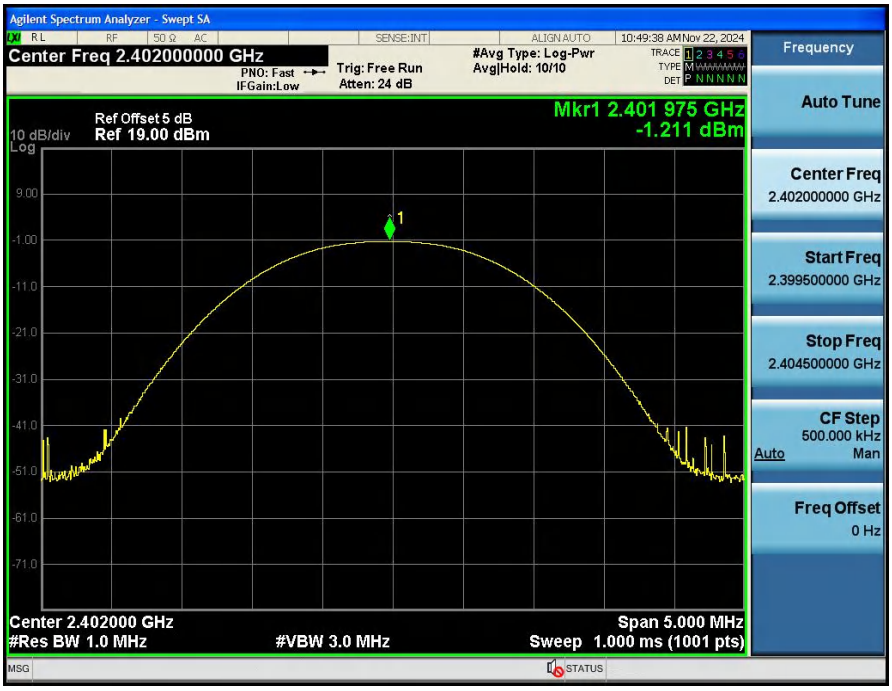

99%_Occupied_Bandwidth_NVNT_ANT1_3-DH5_2480_00



# Appendix D: Peak Output Power

| Condition | Antenna | Modulation | Frequency (MHz) | Max. Conducted Power(dBm) | Max. Conducted Power(mW) | Limit(mW) | Result |
|---|---|---|---|---|---|---|---|
| NVNT | ANT1 | 1-DH5 | 2402.00 | -1.21 | 0.76 | 1000 | Pass |
| NVNT | ANT1 | 1-DH5 | 2441.00 | -0.48 | 0.89 | 125 | Pass |
| NVNT | ANT1 | 1-DH5 | 2480.00 | -1.31 | 0.74 | 1000 | Pass |
| NVNT | ANT1 | 2-DH5 | 2402.00 | -2.24 | 0.60 | 1000 | Pass |
| NVNT | ANT1 | 2-DH5 | 2441.00 | -1.48 | 0.71 | 1000 | Pass |
| NVNT | ANT1 | 2-DH5 | 2480.00 | -1.93 | 0.64 | 1000 | Pass |
| NVNT | ANT1 | 3-DH5 | 2402.00 | -1.83 | 0.66 | 1000 | Pass |
| NVNT | ANT1 | 3-DH5 | 2441.00 | -1.00 | 0.80 | 1000 | Pass |
| NVNT | ANT1 | 3-DH5 | 2480.00 | -1.54 | 0.70 | 1000 | Pass |

**Peak_Output_Power_NVNT_ANT1_1-DH5_2402_00**



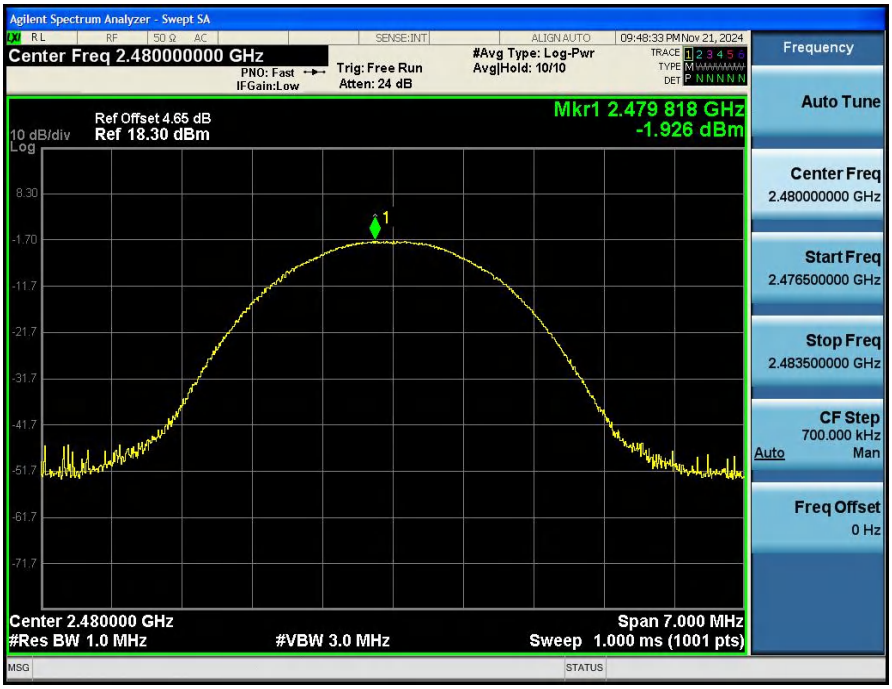

**Peak_Output_Power_NVNT_ANT1_1-DH5_2441_00**


**Peak_Output_Power_NVNT_ANT1_1-DH5_2480_00**


**Peak_Output_Power_NVNT_ANT1_2-DH5_2402_00**

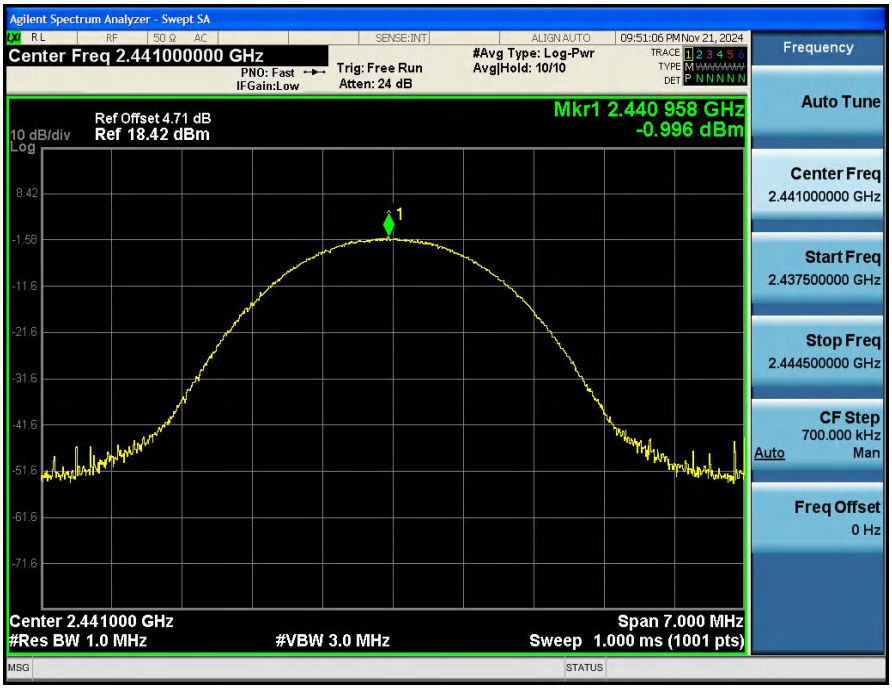

**Peak_Output_Power_NVNT_ANT1_2-DH5_2441_00**


**Peak_Output_Power_NVNT_ANT1_2-DH5_2480_00**

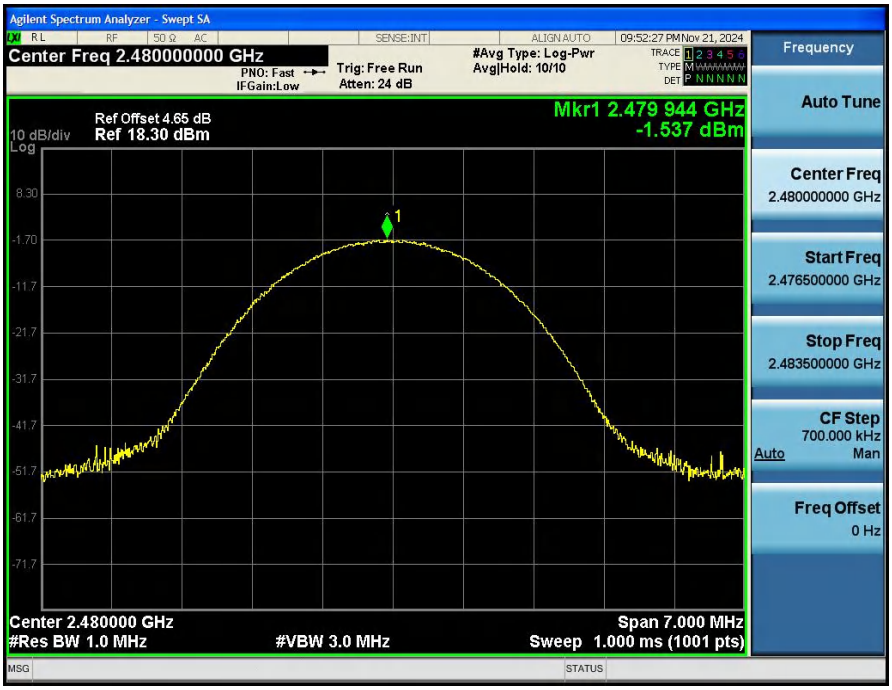



**Peak_Output_Power_NVNT_ANT1_3-DH5_2402_00**


**Peak_Output_Power_NVNT_ANT1_3-DH5_2441_00**



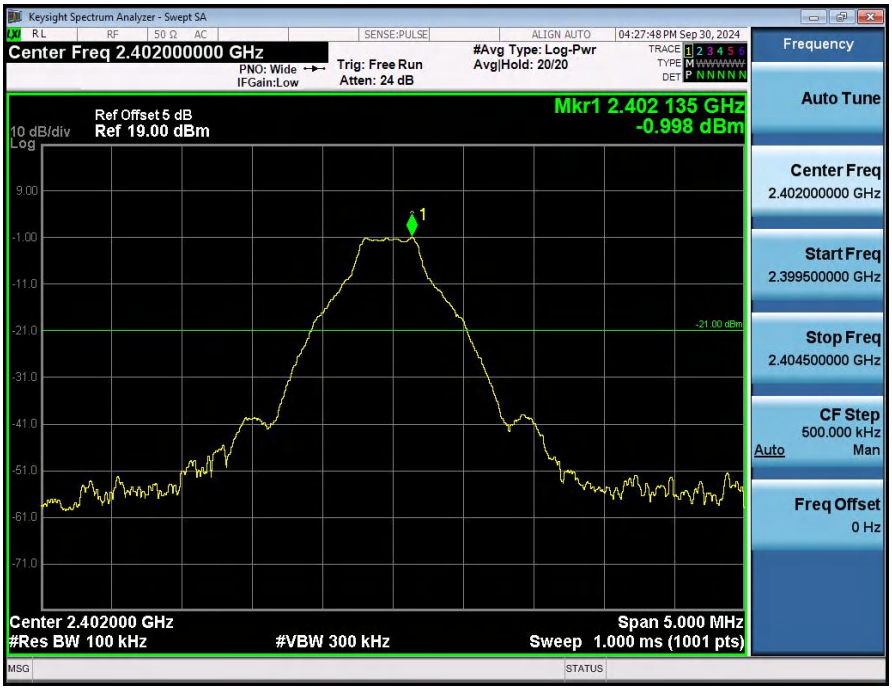

**Peak_Output_Power_NVNT_ANT1_3-DH5_2480_00**



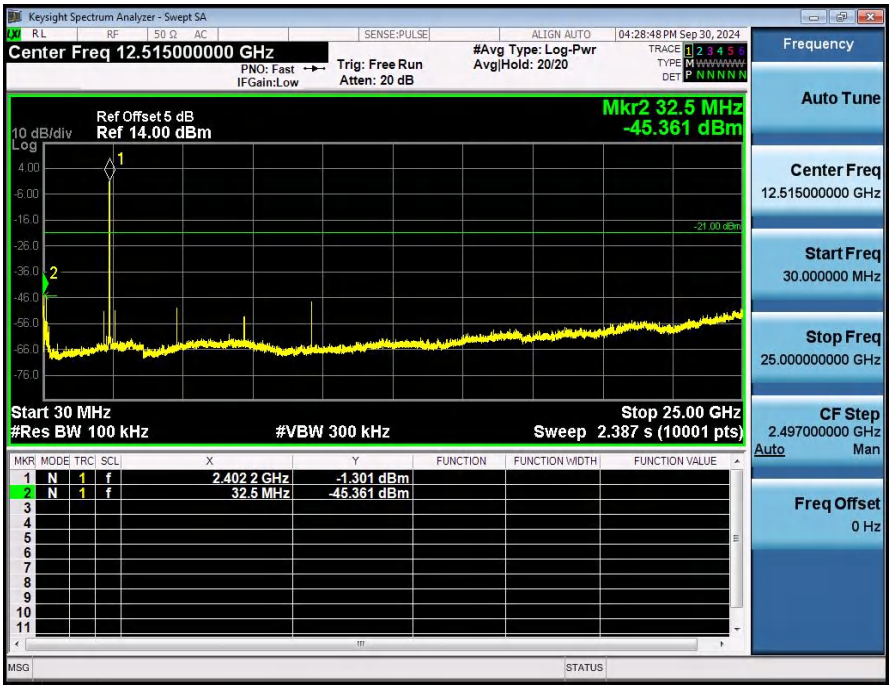
# Appendix E: Spurious Emissions

| Condition | Antenna | Modulation | TX Mode | Spurious MAX.Value(dBm) | Limit | Result |
|---|---|---|---|---|---|---|
| NVNT | ANT1 | 1-DH5 | 2402.00 | -45.361 | -20.998 | Pass |
| NVNT | ANT1 | 1-DH5 | 2441.00 | -46.022 | -21.191 | Pass |
| NVNT | ANT1 | 1-DH5 | 2480.00 | -46.193 | -22.563 | Pass |
| NVNT | ANT1 | 2-DH5 | 2402.00 | -45.799 | -20.960 | Pass |
| NVNT | ANT1 | 2-DH5 | 2441.00 | -43.762 | -21.157 | Pass |
| NVNT | ANT1 | 2-DH5 | 2480.00 | -35.734 | -22.337 | Pass |
| NVNT | ANT1 | 3-DH5 | 2402.00 | -39.485 | -20.837 | Pass |
| NVNT | ANT1 | 3-DH5 | 2441.00 | -37.450 | -21.099 | Pass |
| NVNT | ANT1 | 3-DH5 | 2480.00 | -46.078 | -22.452 | Pass |

1_Reference_Level_NVNT_ANT1_1-DH5_2402_00

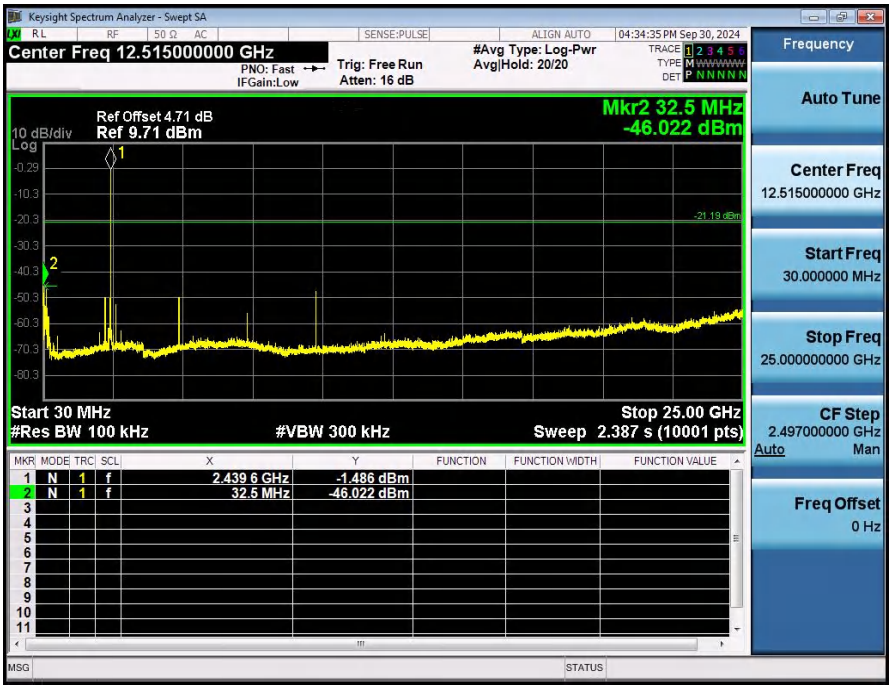



2_Spurious_Emissions_NVNT_ANT1_1-DH5_2402_00



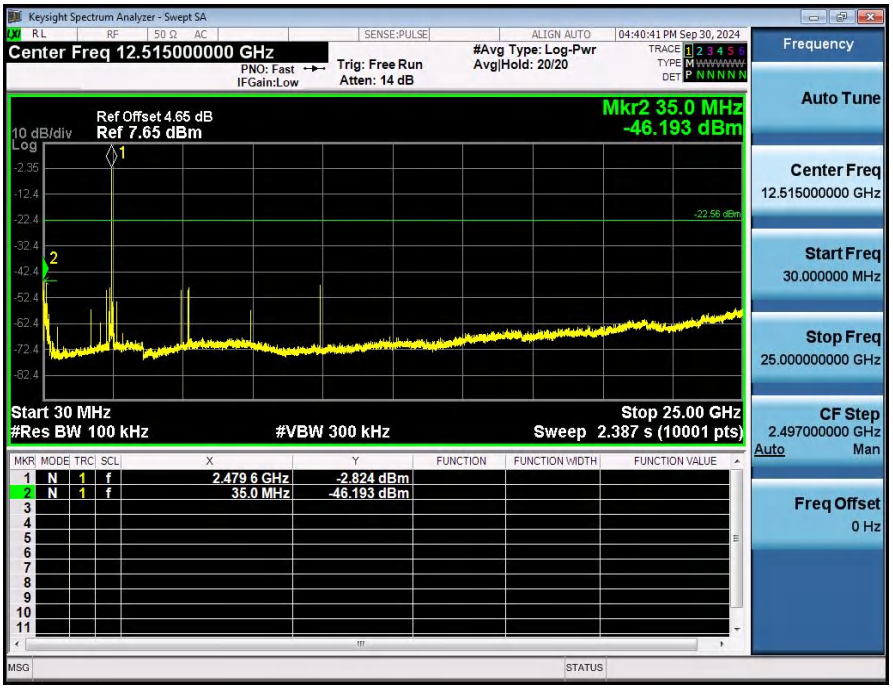

1_Reference_Level_NVNT_ANT1_1-DH5_2441_00


2_Spurious_Emissions_NVNT_ANT1_1-DH5_2441_00

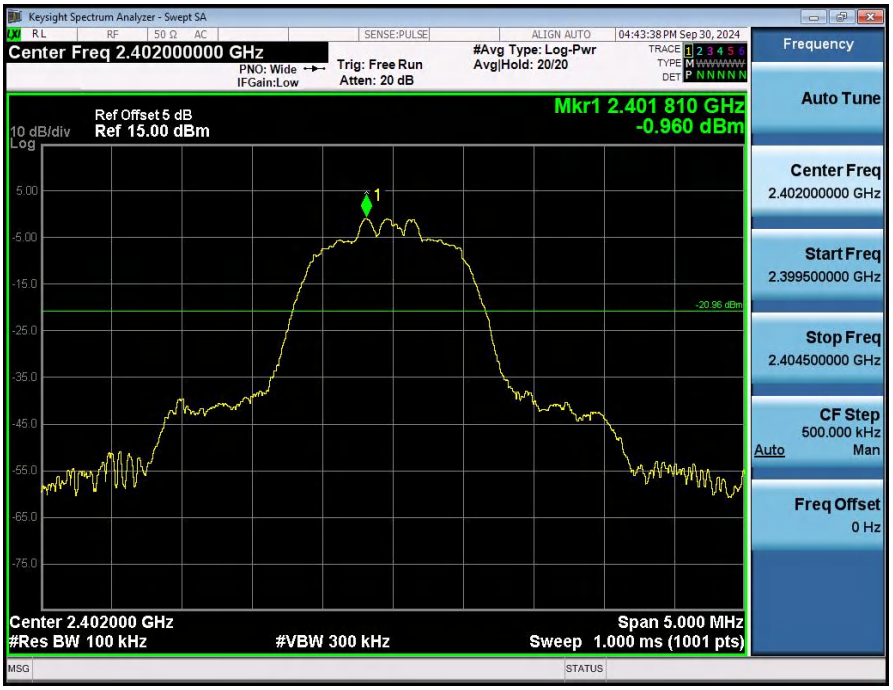



1_Reference_Level_NVNT_ANT1_1-DH5_2480_00

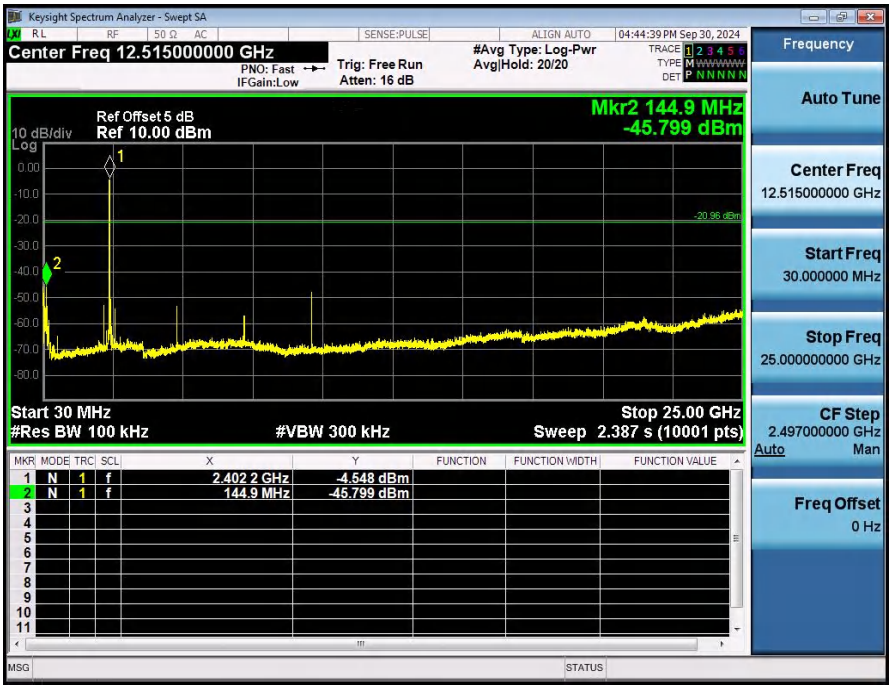

2_Spurious_Emissions_NVNT_ANT1_1-DH5_2480_00




1_Reference_Level_NVNT_ANT1_2-DH5_2402_00

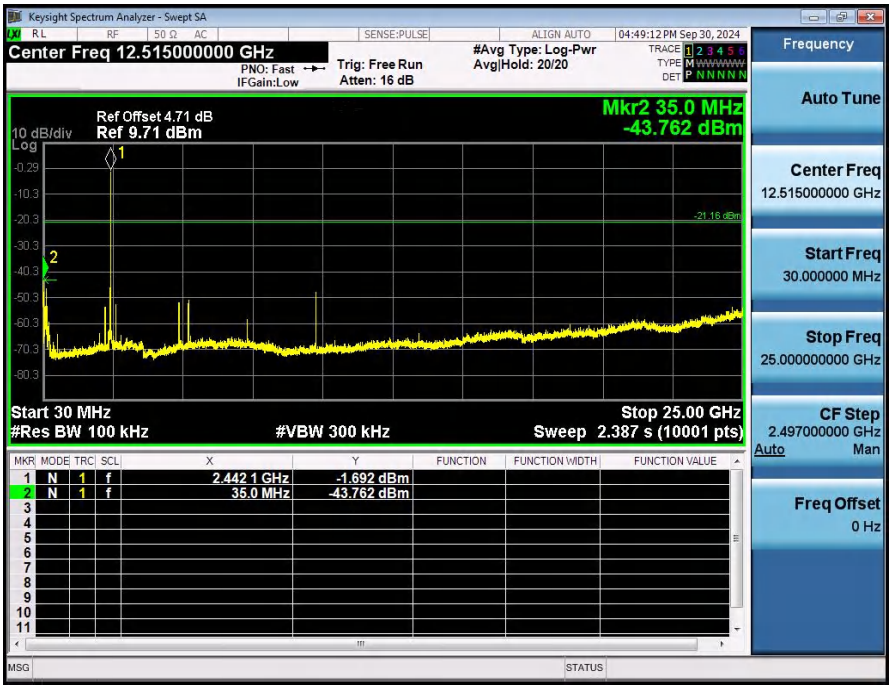



2_Spurious_Emissions_NVNT_ANT1_2-DH5_2402_00



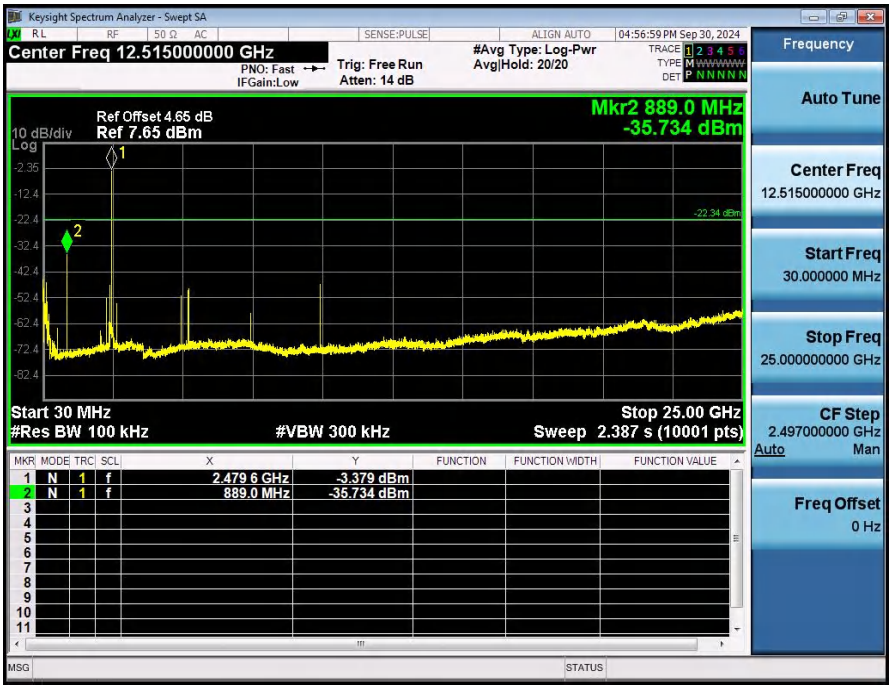

1_Reference_Level_NVNT_ANT1_2-DH5_2441_00


2_Spurious_Emissions_NVNT_ANT1_2-DH5_2441_00

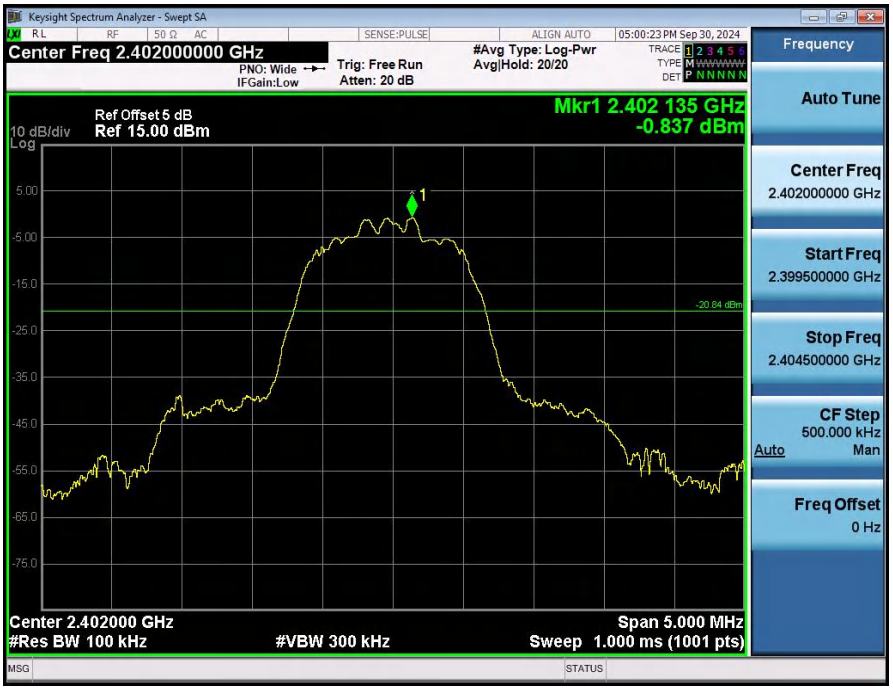



1_Reference_Level_NVNT_ANT1_2-DH5_2480_00

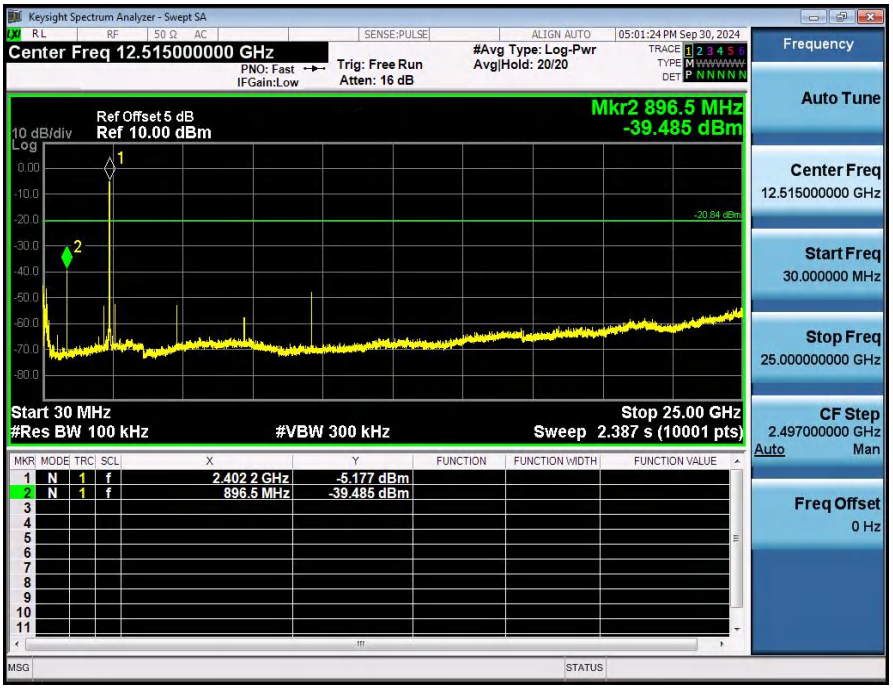

2_Spurious_Emissions_NVNT_ANT1_2-DH5_2480_00




1_Reference_Level_NVNT_ANT1_3-DH5_2402_00

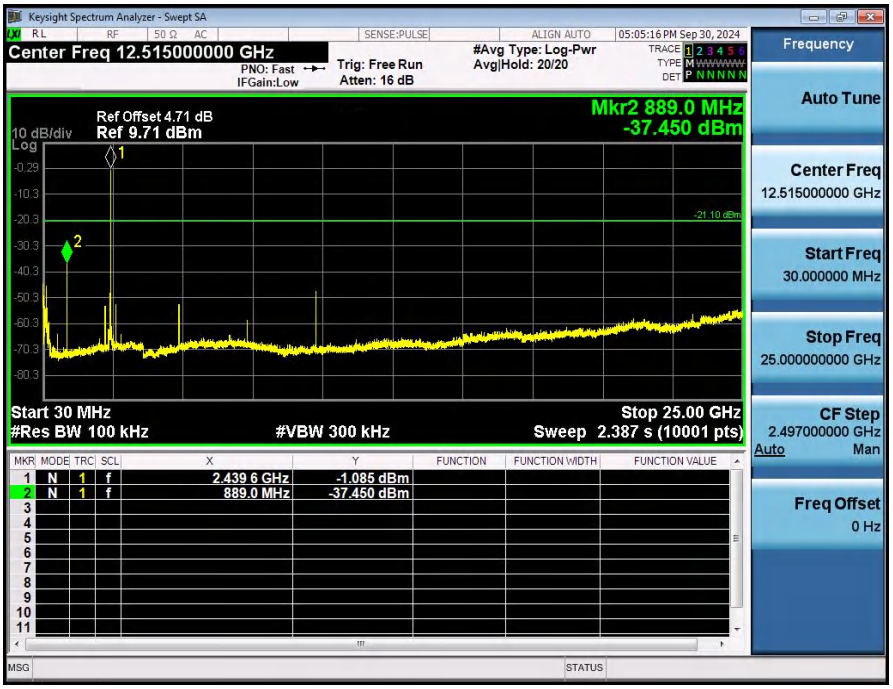



2_Spurious_Emissions_NVNT_ANT1_3-DH5_2402_00




1_Reference_Level_NVNT_ANT1_3-DH5_2441_00


2_Spurious_Emissions_NVNT_ANT1_3-DH5_2441_00




1_Reference_Level_NVNT_ANT1_3-DH5_2480_00


2_Spurious_Emissions_NVNT_ANT1_3-DH5_2480_00