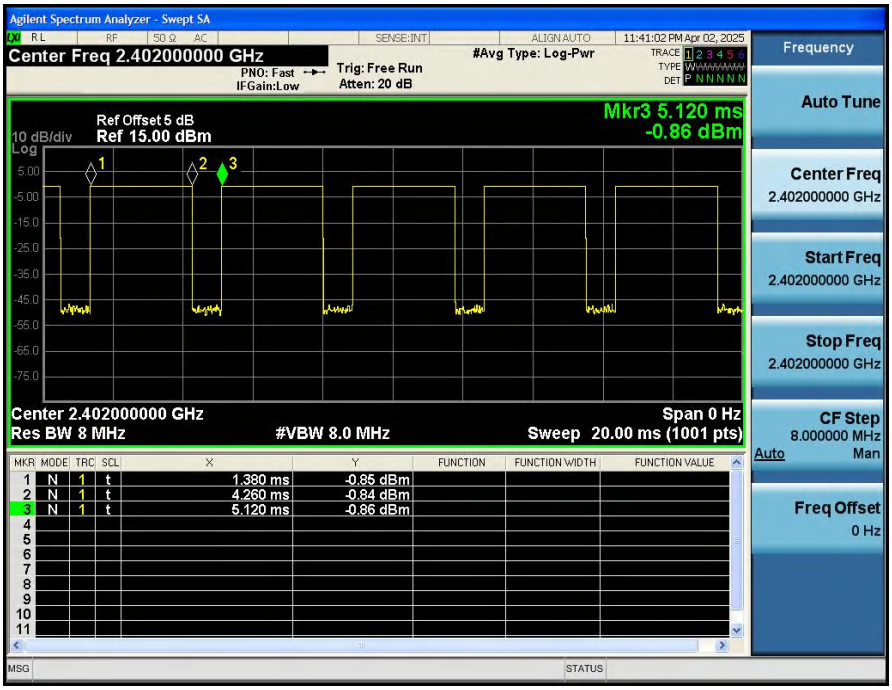
Appendix Test Data

Report No.:	1819C50028612501	Test Sample No.:	1-2-2
Start Test Date:	2025.3.27	Finish Test Date:	2025.5.19
Test Engineer:	Qiangfei Yang	Auditor:	Justin Feng
Temperature:	18.2℃	Relative Humidity:	42%
Pressure:	101kPa		

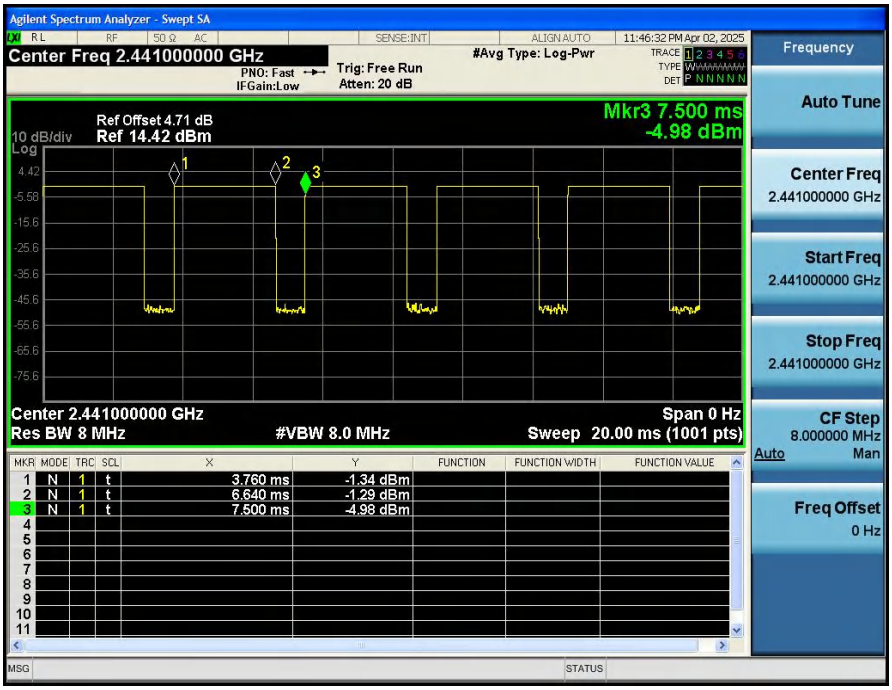
Appendix A: Duty Cycle

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	77.13	1.13
NVNT	ANT1	2-DH5	2402.00	77.54	1.10
NVNT	ANT1	2-DH5	2441.00	77.66	1.10
NVNT	ANT1	2-DH5	2480.00	77.66	1.10
NVNT	ANT1	3-DH5	2402.00	77.66	1.10
NVNT	ANT1	3-DH5	2441.00	77.66	1.10
NVNT	ANT1	3-DH5	2480.00	77.66	1.10

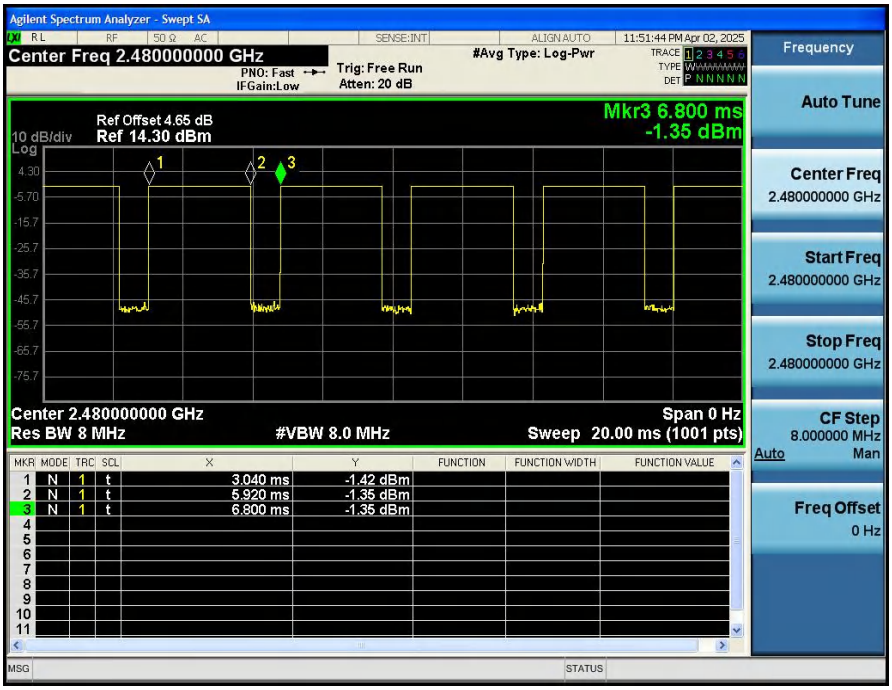
Duty_Cycle_NVNT_ANT1_1-DH5_2402



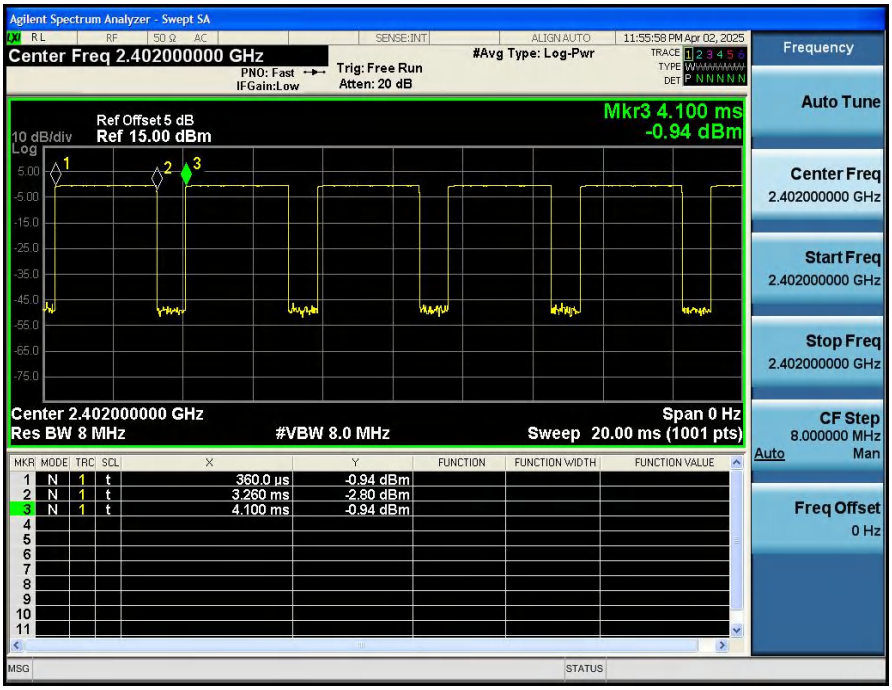
Duty_Cycle_NVNT_ANT1_1-DH5_2441



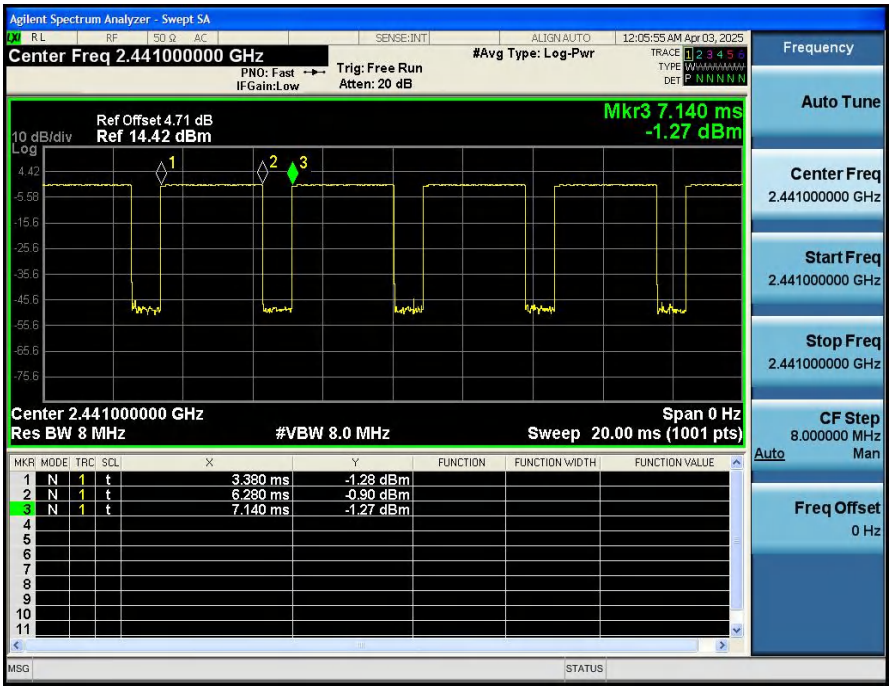
Duty_Cycle_NVNT_ANT1_1-DH5_2480



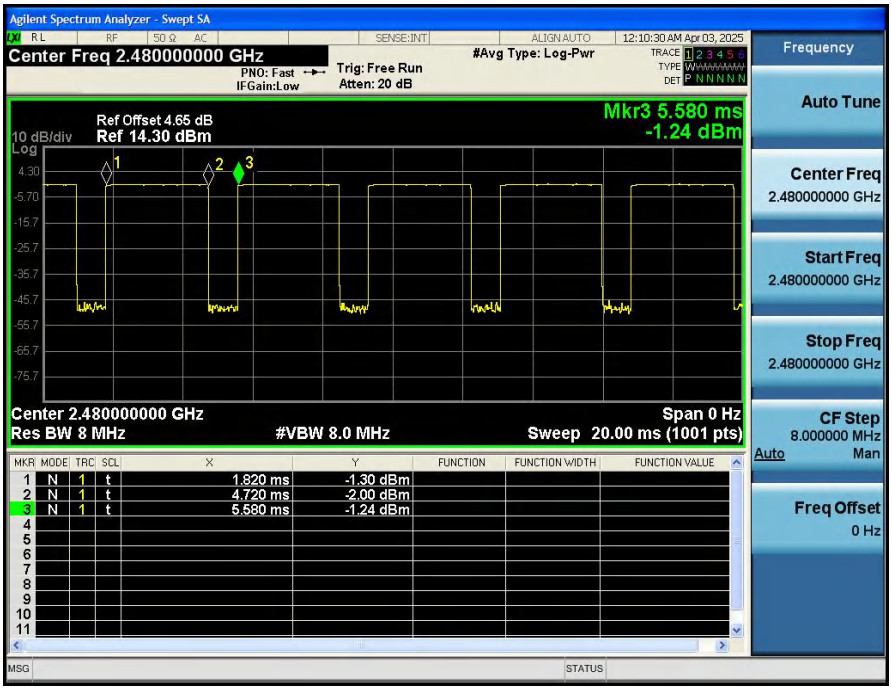
Duty_Cycle_NVNT_ANT1_2-DH5_2402



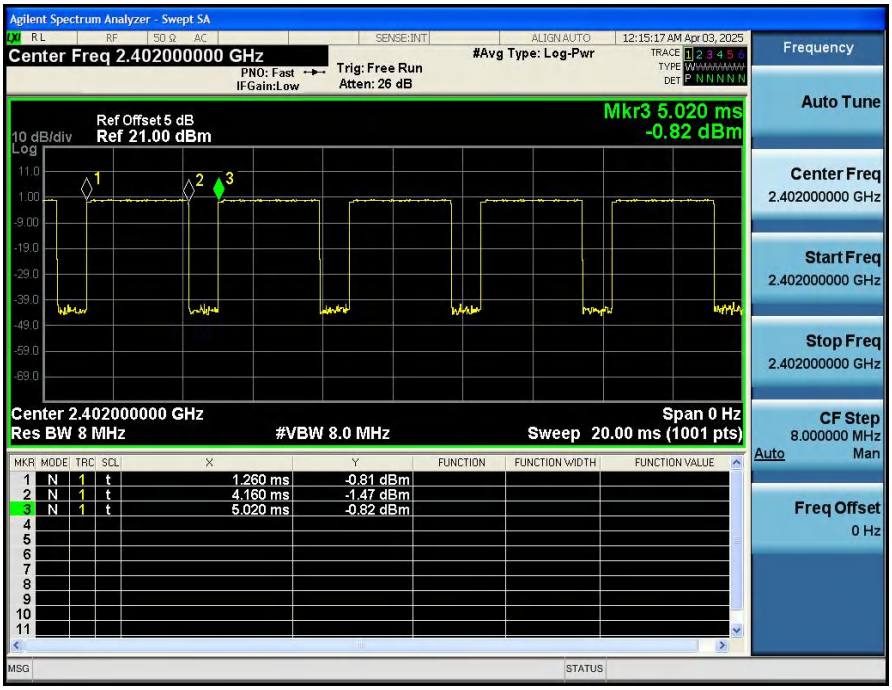
Duty_Cycle_NVNT_ANT1_2-DH5_2441



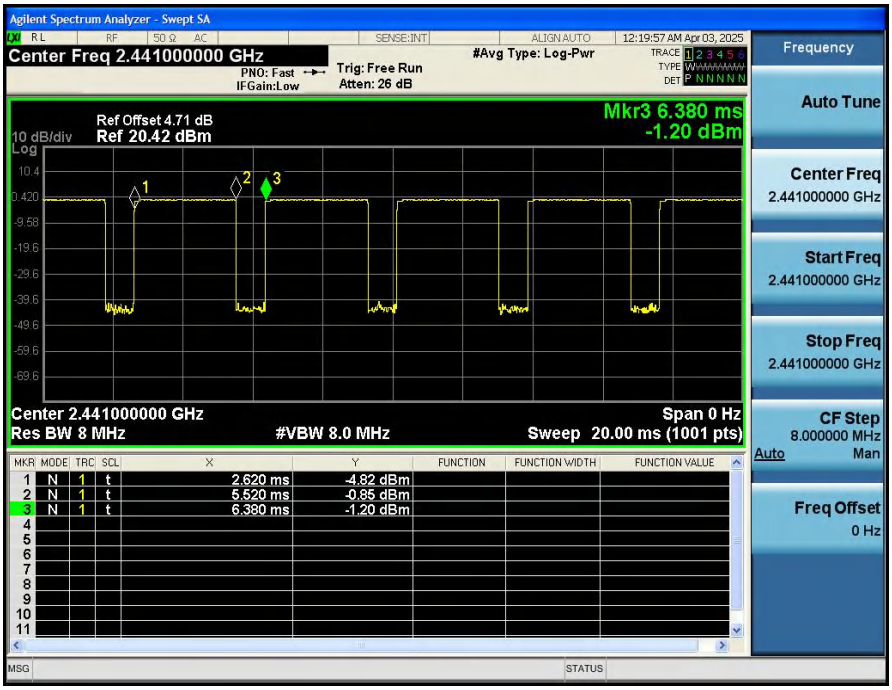
Duty_Cycle_NVNT_ANT1_2-DH5_2480



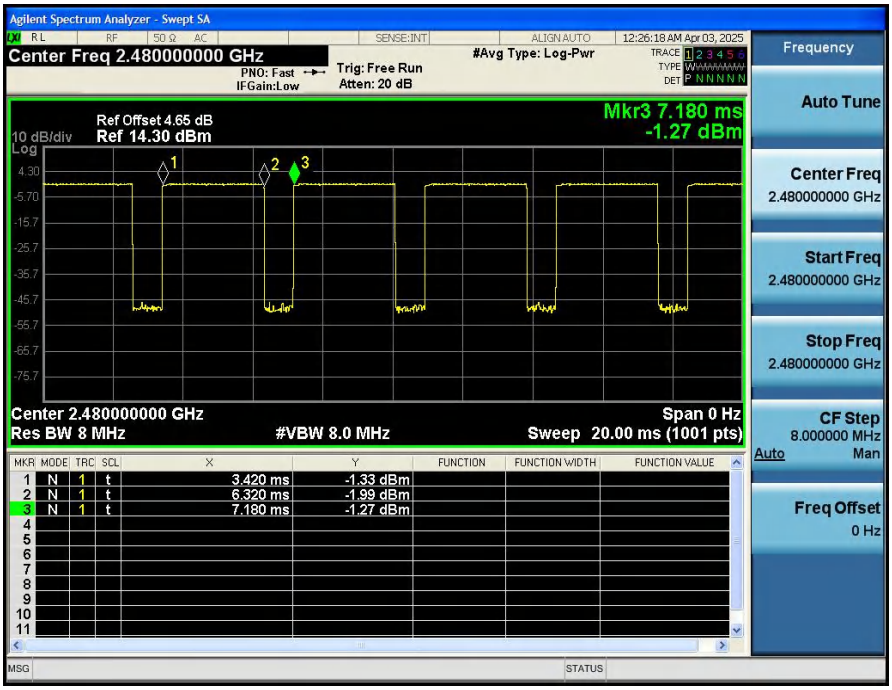
Duty_Cycle_NVNT_ANT1_3-DH5_2402



Duty_Cycle_NVNT_ANT1_3-DH5_2441



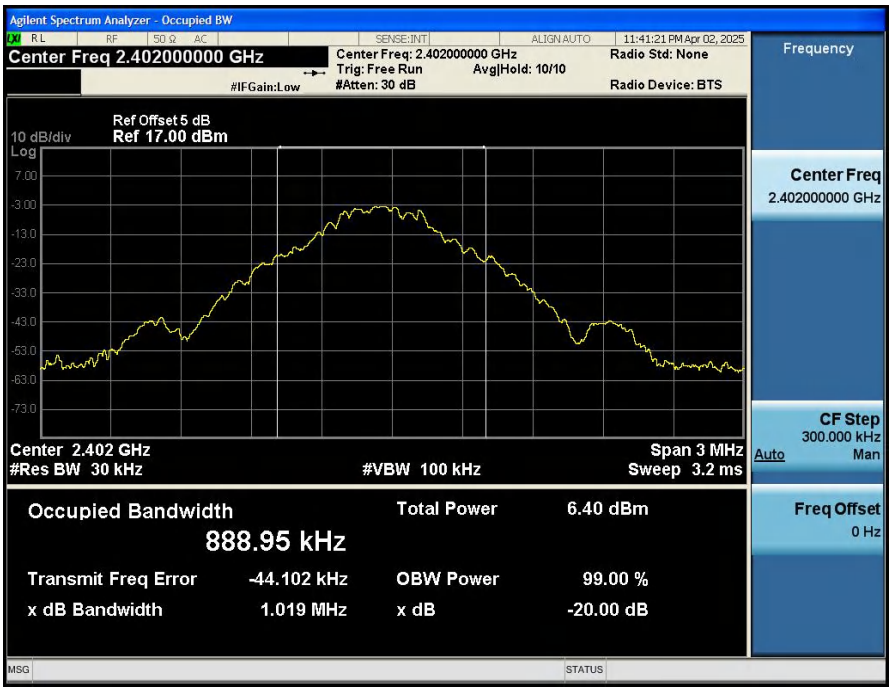
Duty_Cycle_NVNT_ANT1_3-DH5_2480


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.480000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 20 dB
#Avg Type: Log-Pwr
12:26:18 AM Apr 03, 2025
Ref Offset 4.65 dB
10 dB/div
Log
Ref 14.30 dBm
Mkr3 7.180 ms
-1.27 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 3.420 ms -1.33 dBm
2 N 1 t 6.320 ms -1.99 dBm
3 N 1 t 7.180 ms -1.27 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

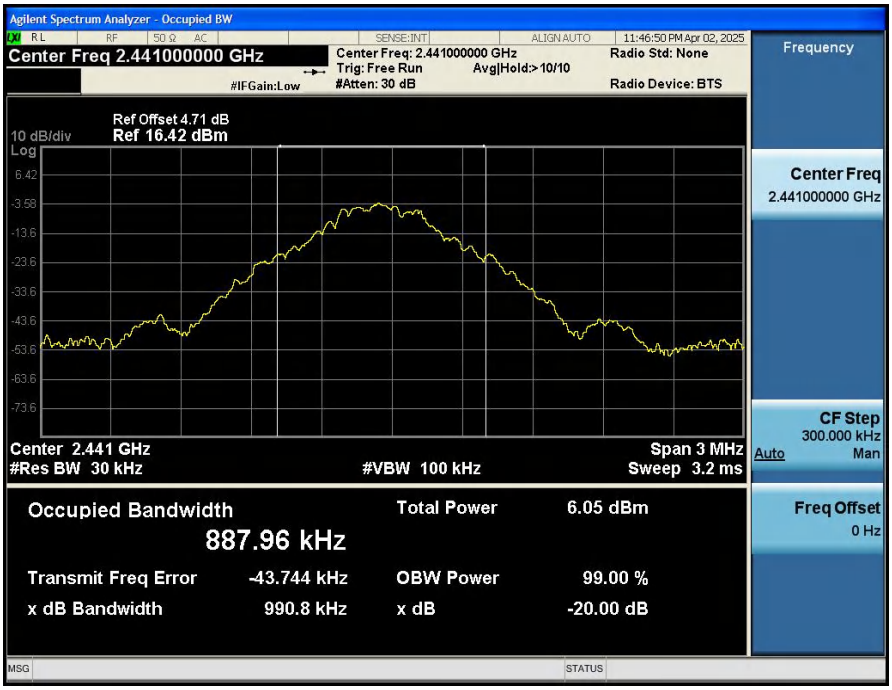
Appendix B: -20dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-20dB BW(MHz)	if larger than CFS
NVNT	ANT1	1-DH5	2402.00	1.019	Yes
NVNT	ANT1	1-DH5	2441.00	0.991	No
NVNT	ANT1	1-DH5	2480.00	1.017	Yes
NVNT	ANT1	2-DH5	2402.00	1.321	Yes
NVNT	ANT1	2-DH5	2441.00	1.305	Yes
NVNT	ANT1	2-DH5	2480.00	1.318	Yes
NVNT	ANT1	3-DH5	2402.00	1.300	Yes
NVNT	ANT1	3-DH5	2441.00	1.304	Yes
NVNT	ANT1	3-DH5	2480.00	1.307	Yes

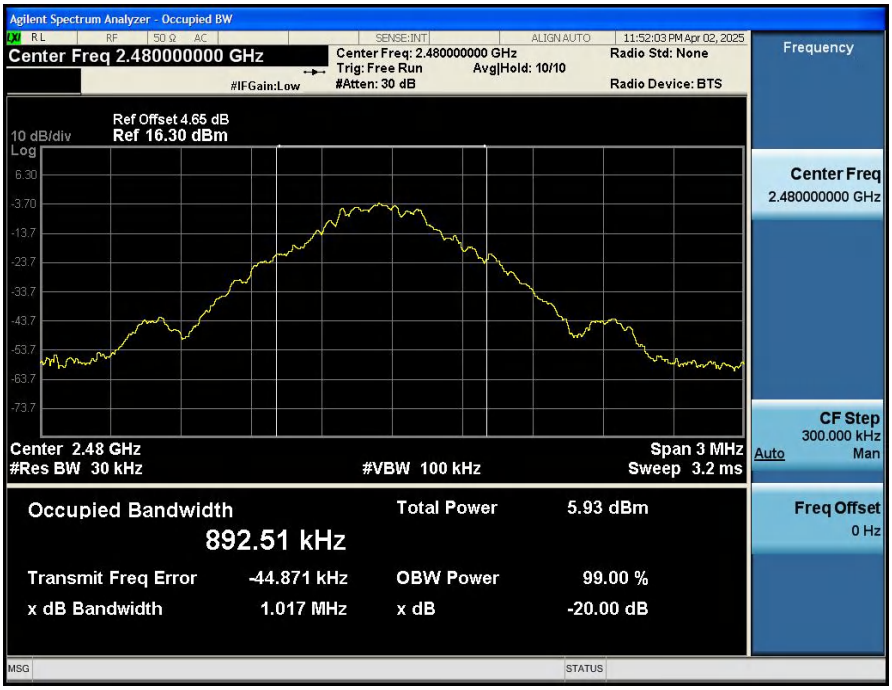
-20dB_Bandwidth_NVNT_ANT1_1-DH5_2402_00



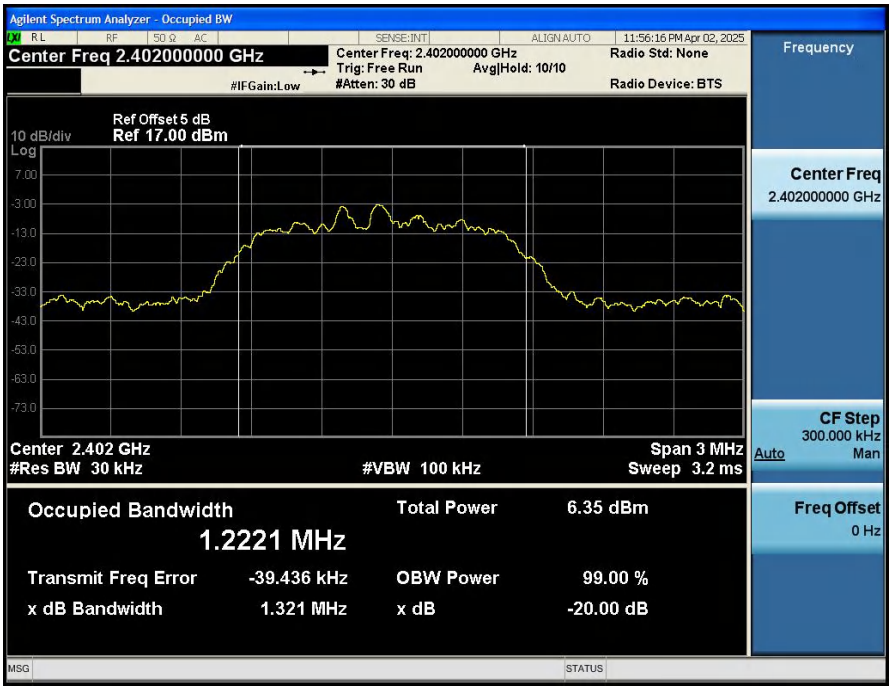
-20dB_Bandwidth_NVNT_ANT1_1-DH5_2441_00



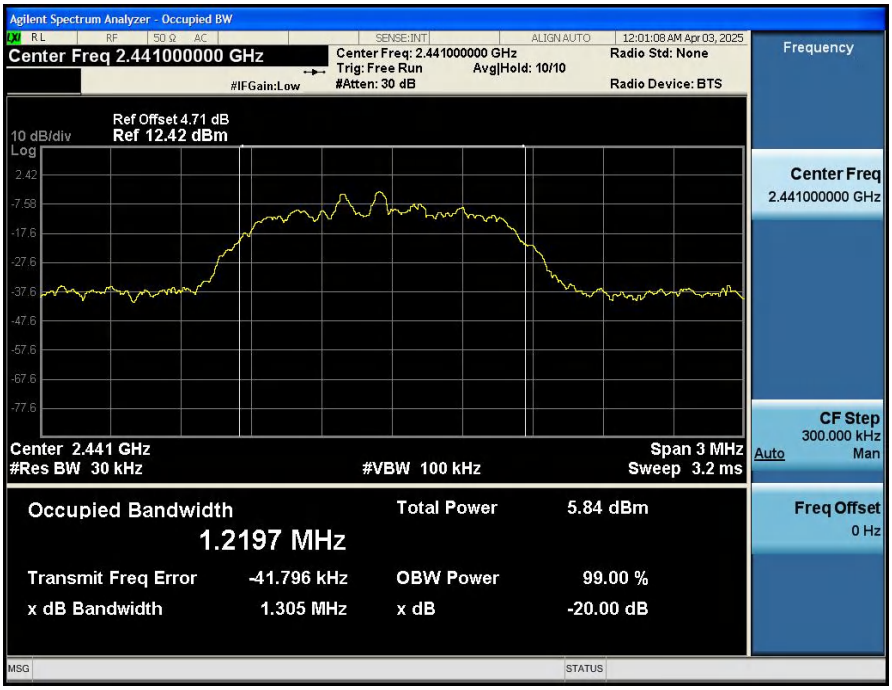
-20dB_Bandwidth_NVNT_ANT1_1-DH5_2480_00



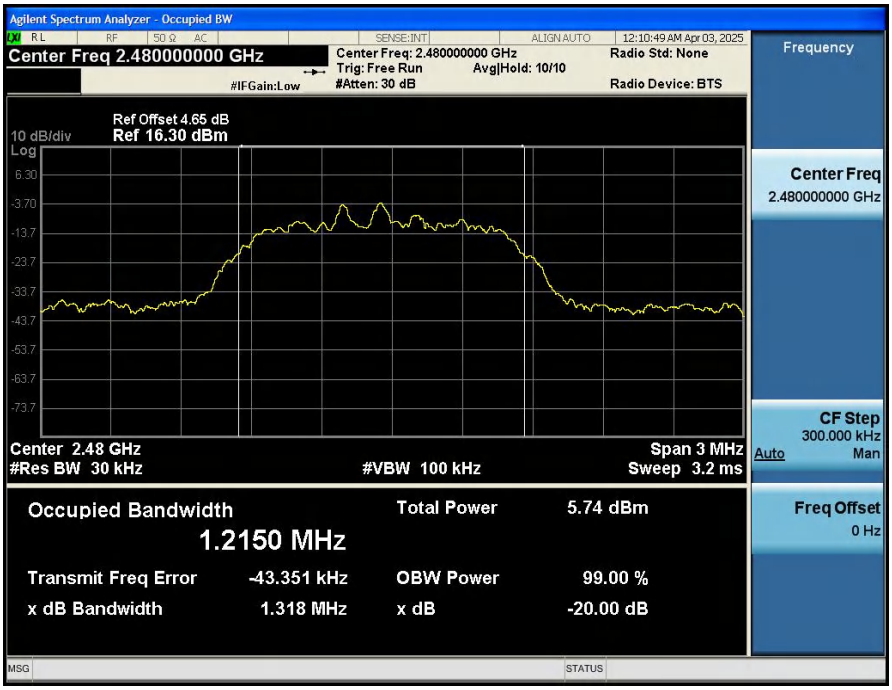
-20dB_Bandwidth_NVNT_ANT1_2-DH5_2402_00



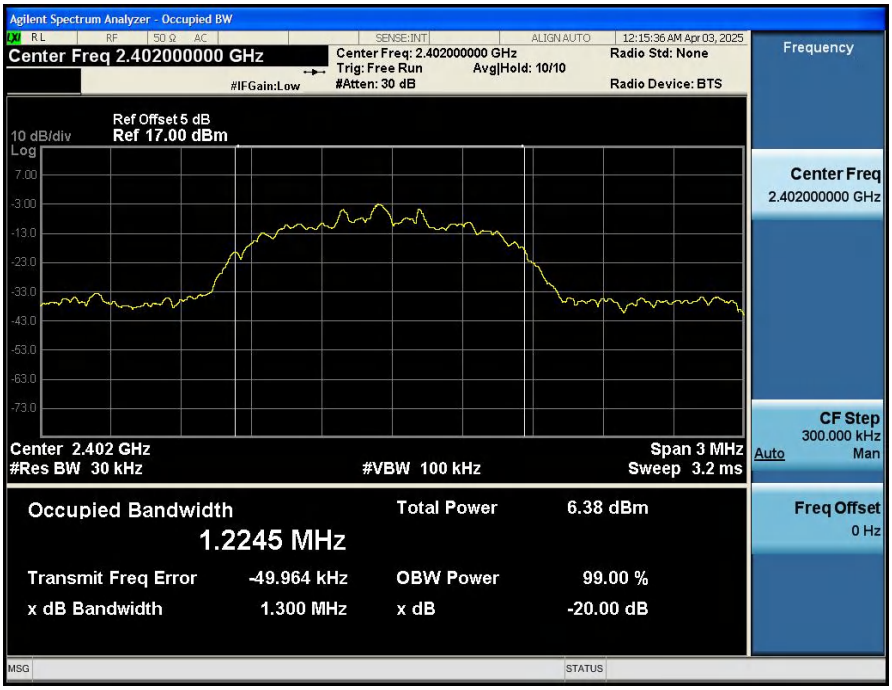
-20dB_Bandwidth_NVNT_ANT1_2-DH5_2441_00



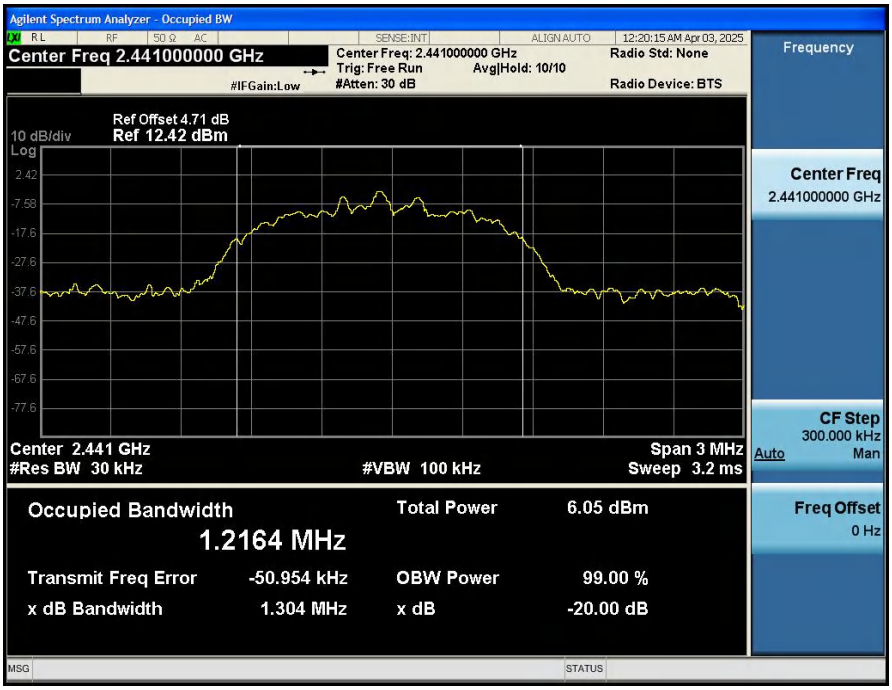
-20dB_Bandwidth_NVNT_ANT1_2-DH5_2480_00



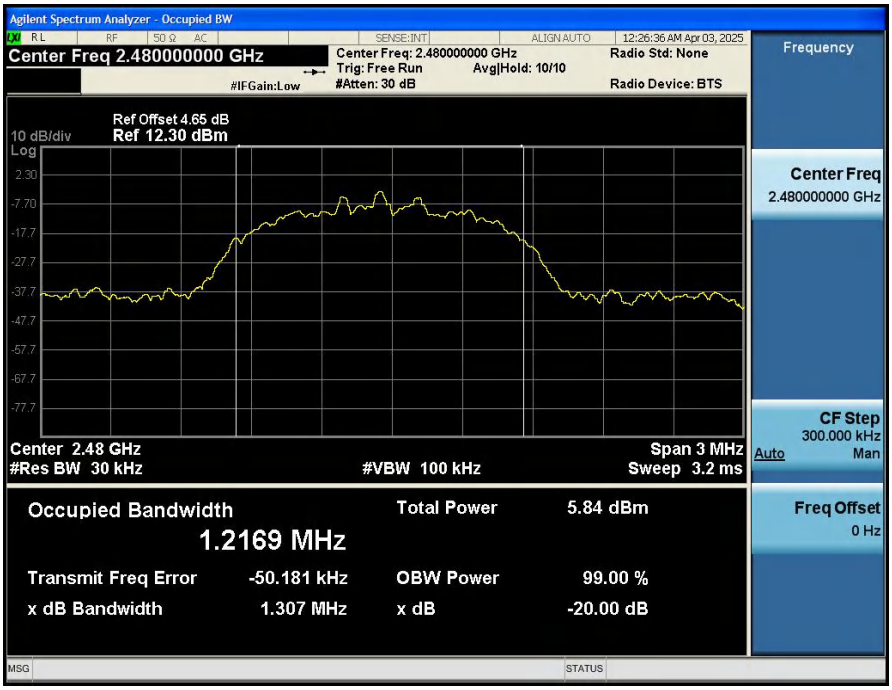
-20dB_Bandwidth_NVNT_ANT1_3-DH5_2402_00



-20dB_Bandwidth_NVNT_ANT1_3-DH5_2441_00



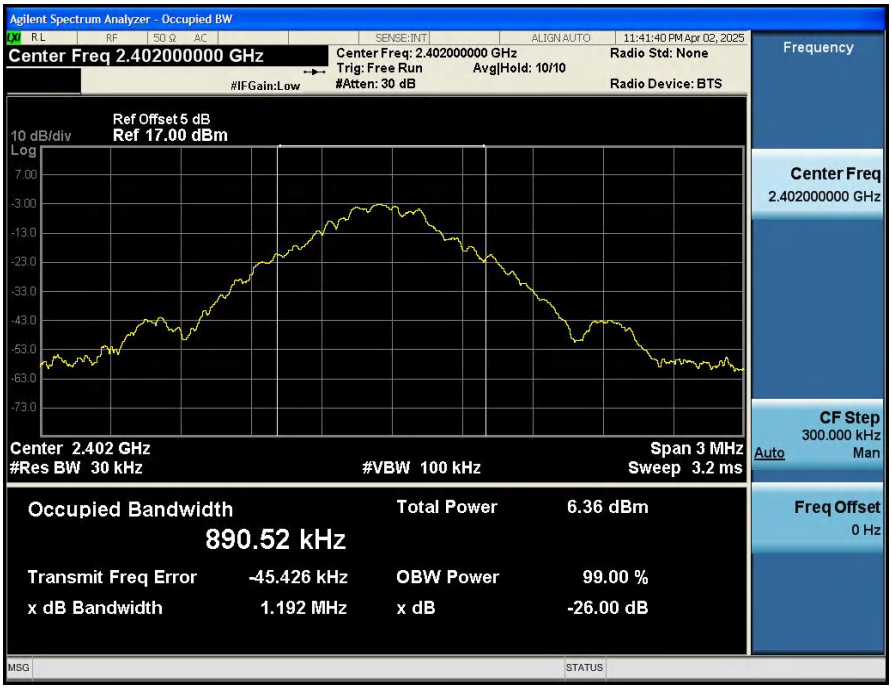
-20dB_Bandwidth_NVNT_ANT1_3-DH5_2480_00



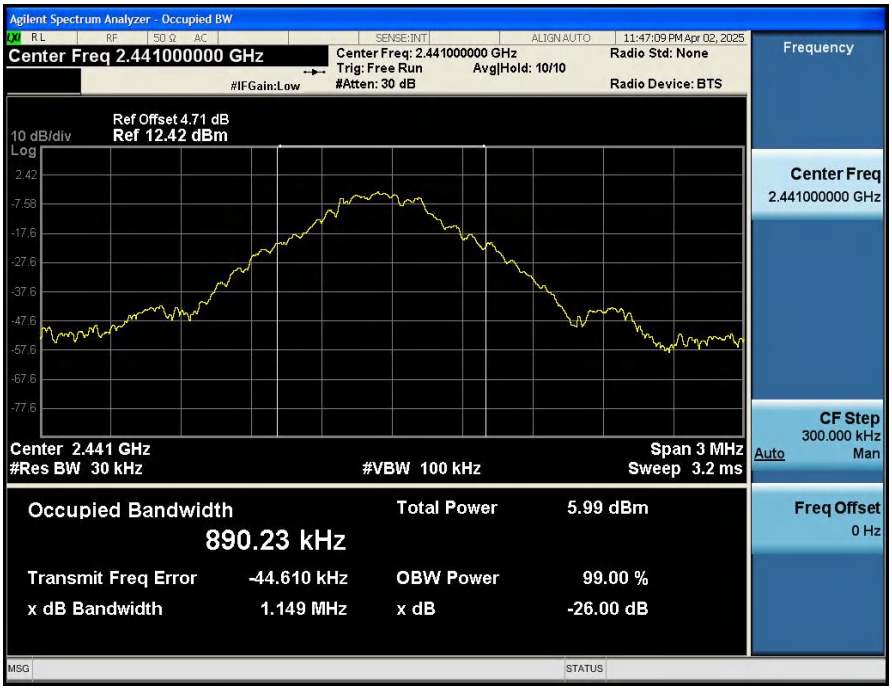
Appendix C: 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99%BW(MHz)
NVNT	ANT1	1-DH5	2402.00	0.891
NVNT	ANT1	1-DH5	2441.00	0.890
NVNT	ANT1	1-DH5	2480.00	0.893
NVNT	ANT1	2-DH5	2402.00	1.227
NVNT	ANT1	2-DH5	2441.00	1.213
NVNT	ANT1	2-DH5	2480.00	1.215
NVNT	ANT1	3-DH5	2402.00	1.224
NVNT	ANT1	3-DH5	2441.00	1.218
NVNT	ANT1	3-DH5	2480.00	1.219

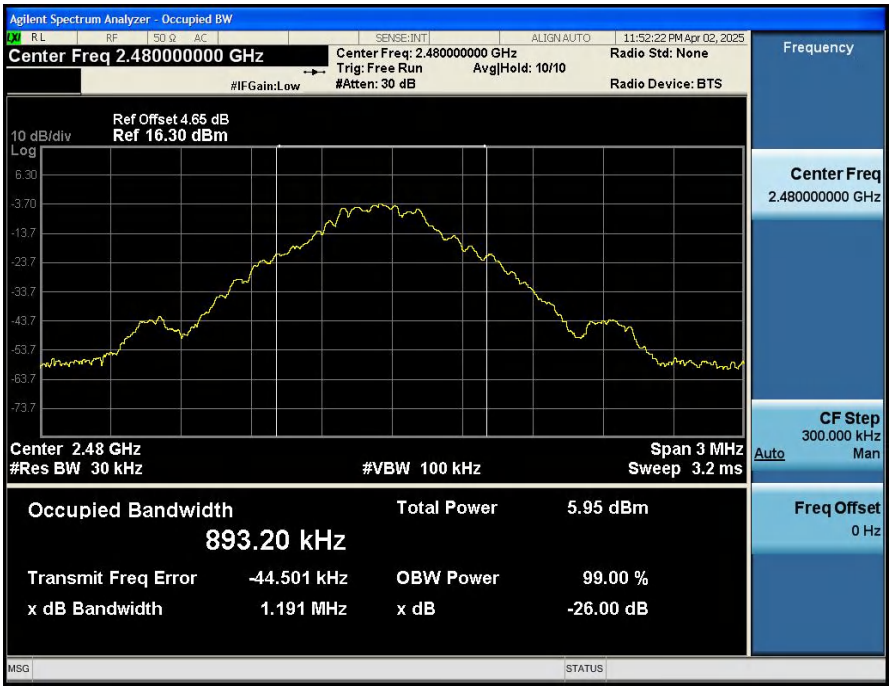
99%_Occupied_Bandwidth_NVNT_ANT1_1-DH5_2402_00



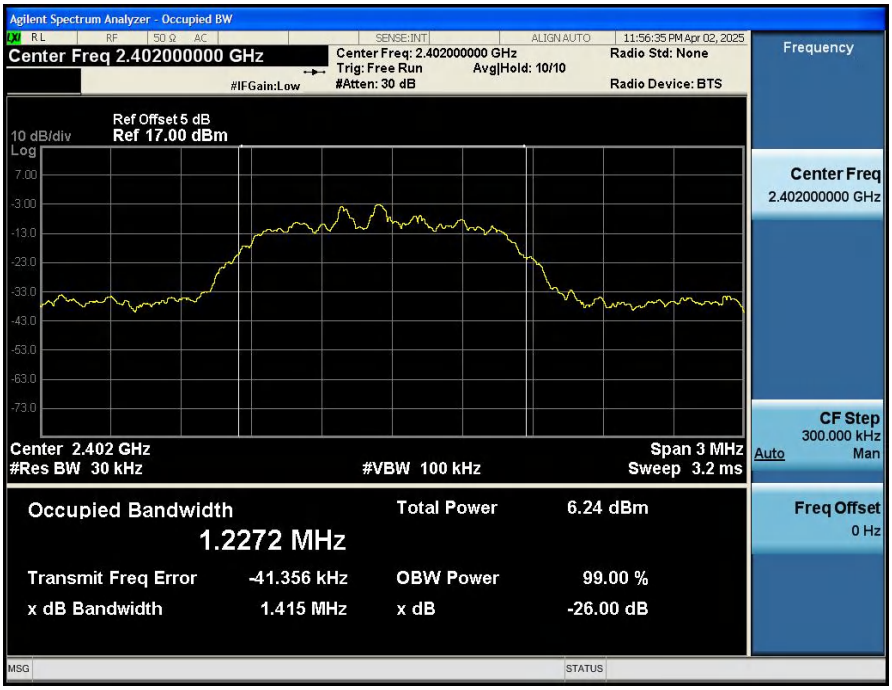
99%_Occupied_Bandwidth_NVNT_ANT1_1-DH5_2441_00



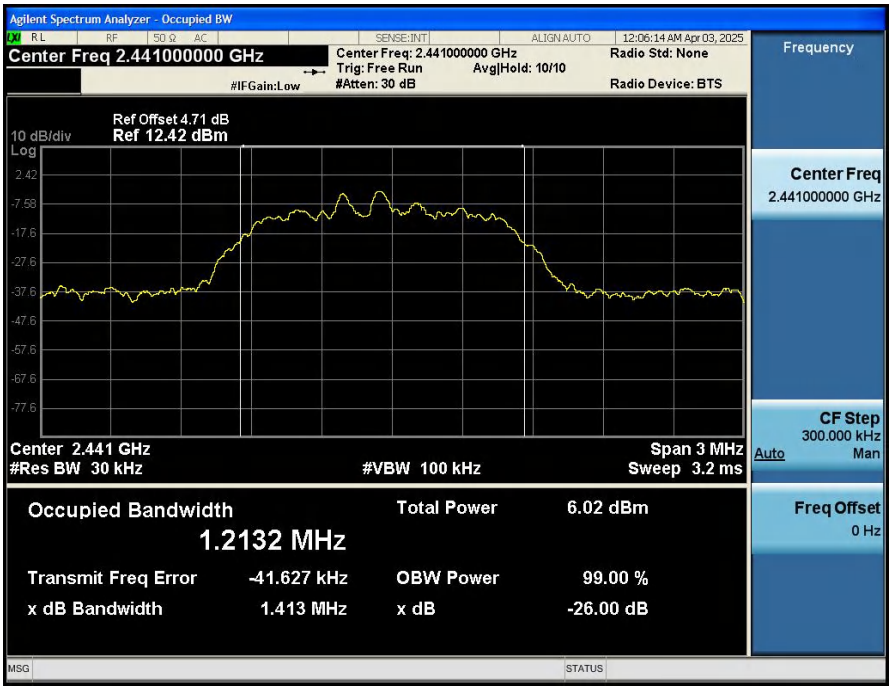
99%_Occupied_Bandwidth_NVNT_ANT1_1-DH5_2480_00



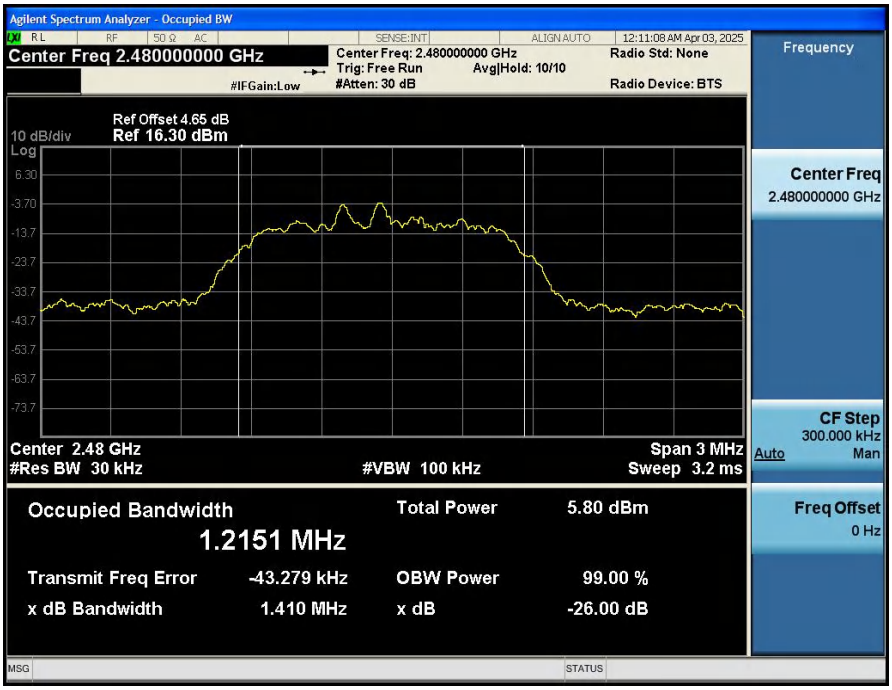
99%_Occupied_Bandwidth_NVNT_ANT1_2-DH5_2402_00



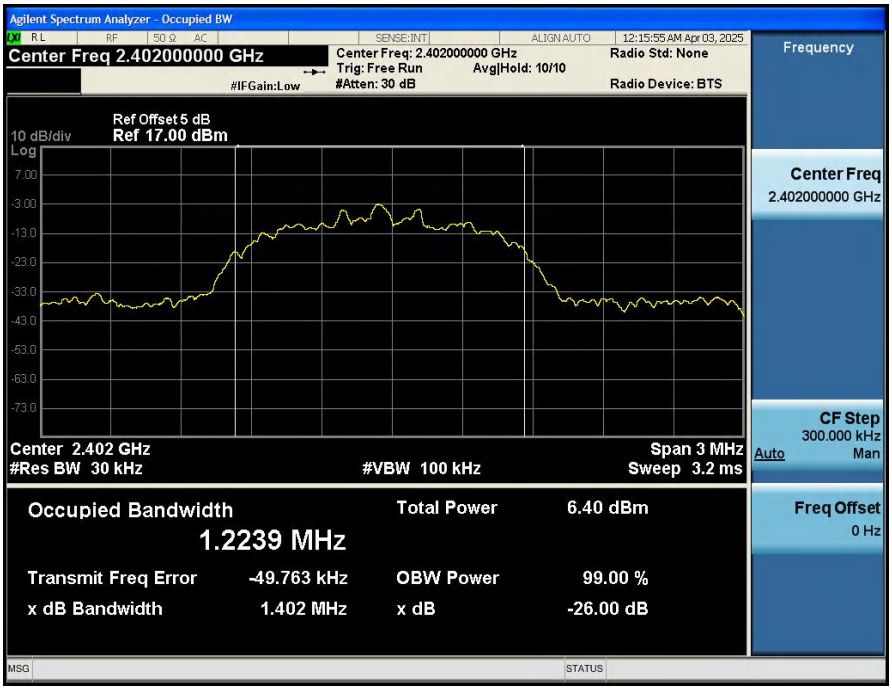
99%_Occupied_Bandwidth_NVNT_ANT1_2-DH5_2441_00



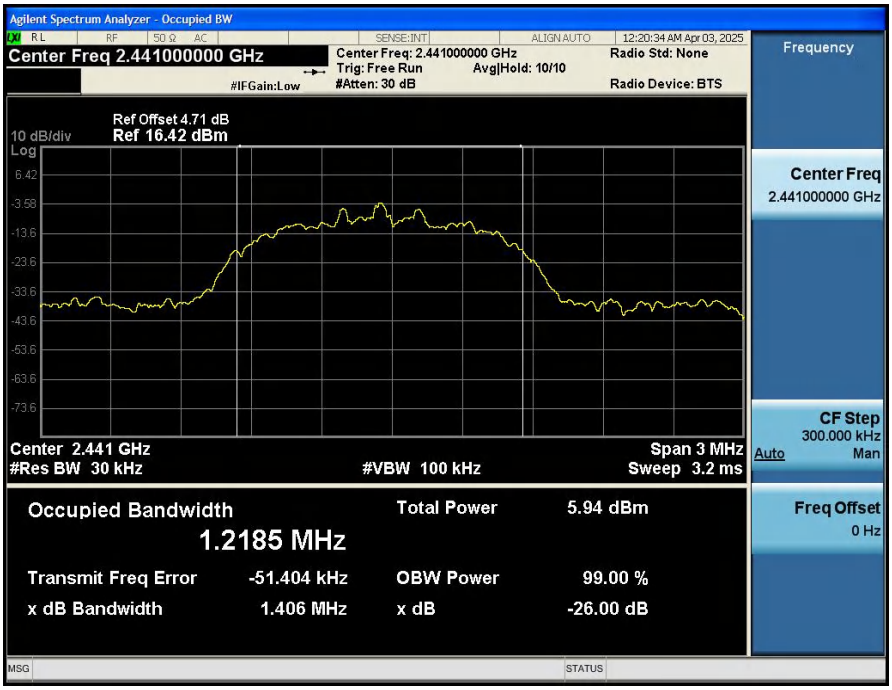
99%_Occupied_Bandwidth_NVNT_ANT1_2-DH5_2480_00



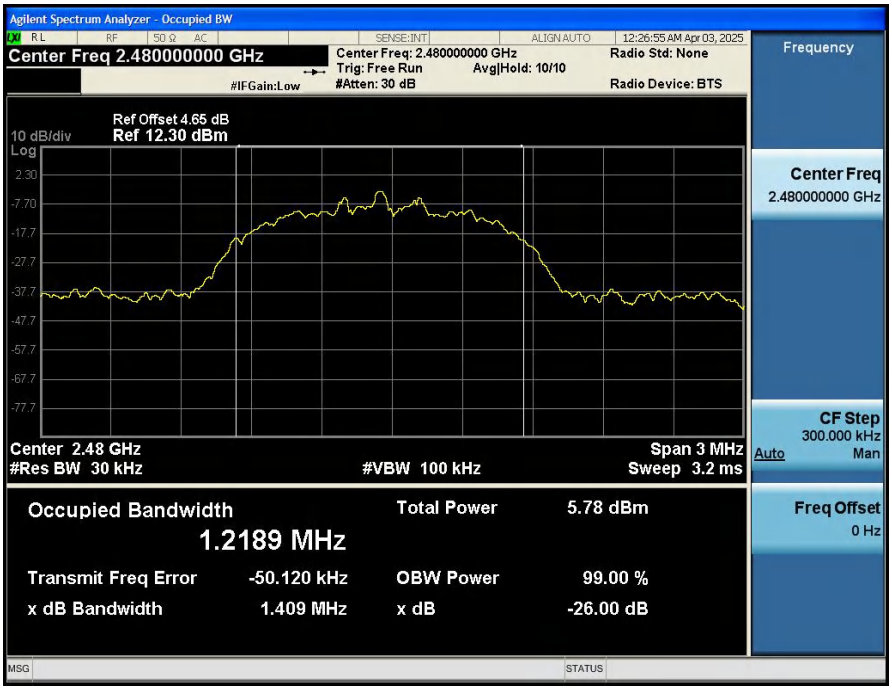
99%_Occupied_Bandwidth_NVNT_ANT1_3-DH5_2402_00



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	-0.82	0.83	125	Pass
NVNT	ANT1	1-DH5	2441.00	-1.14	0.77	125	Pass
NVNT	ANT1	1-DH5	2480.00	-1.28	0.74	125	Pass
NVNT	ANT1	2-DH5	2402.00	-0.35	0.92	125	Pass
NVNT	ANT1	2-DH5	2441.00	-0.51	0.89	125	Pass
NVNT	ANT1	2-DH5	2480.00	-0.69	0.85	125	Pass
NVNT	ANT1	3-DH5	2402.00	**-0.05**	0.99	125	Pass
NVNT	ANT1	3-DH5	2441.00	-0.34	0.93	125	Pass
NVNT	ANT1	3-DH5	2480.00	-0.49	0.89	125	Pass

Peak_Output_Power_NVNT_ANT1_1-DH5_2402_00

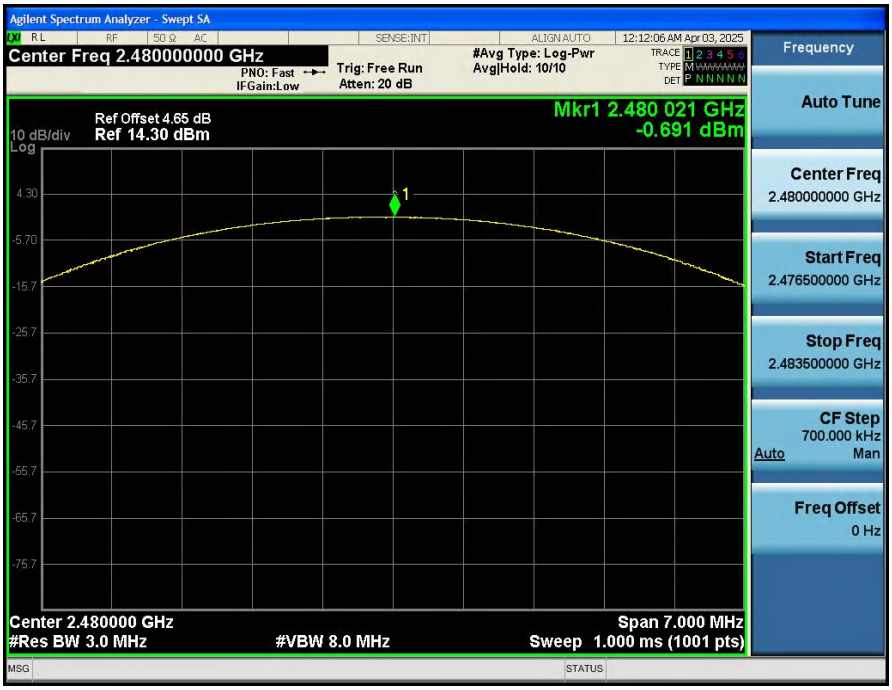
Peak_Output_Power_NVNT_ANT1_1-DH5_2441_00

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

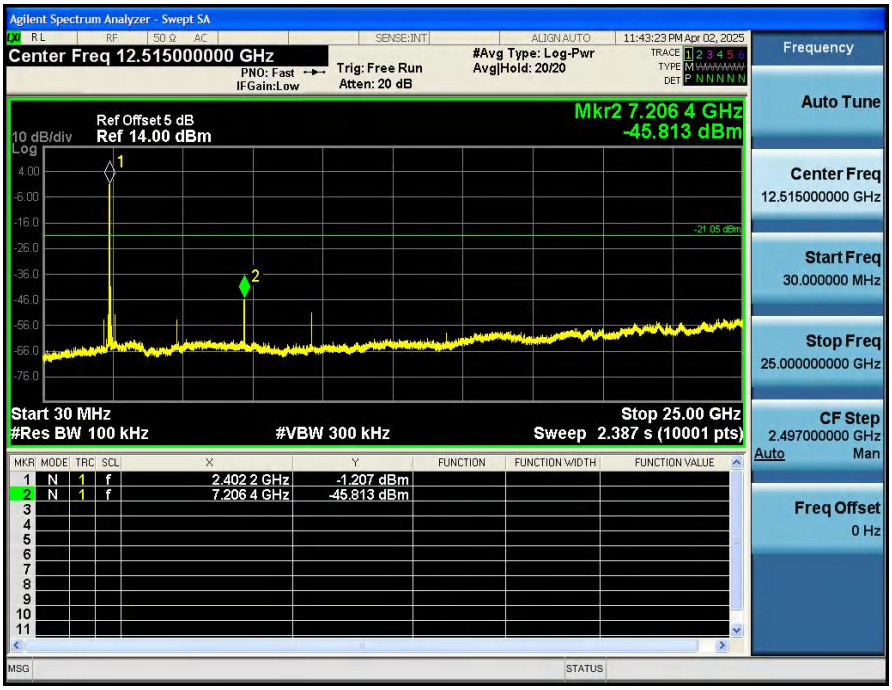
Peak_Output_Power_NVNT_ANT1_3-DH5_2480_00

Appendix E: Spurious Emissions

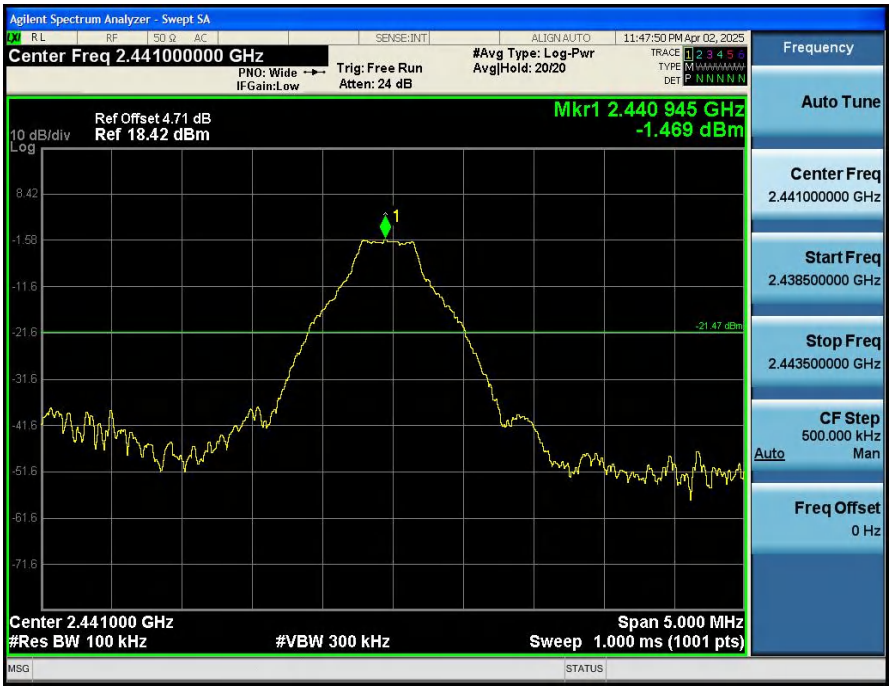
Condition	Antenna	Modulation	TX Mode	Ref_level(dBm)	Spurious MAX.Value(dBm)	Limit	Result
NVNT	ANT1	1-DH5	2402.00	-1.047	-45.813	-21.047	Pass
NVNT	ANT1	1-DH5	2441.00	-1.469	-46.977	-21.469	Pass
NVNT	ANT1	1-DH5	2480.00	-1.558	-47.761	-21.558	Pass
NVNT	ANT1	2-DH5	2402.00	-1.060	-48.866	-21.060	Pass
NVNT	ANT1	2-DH5	2441.00	-1.316	-49.528	-21.316	Pass
NVNT	ANT1	2-DH5	2480.00	-1.336	-47.773	-21.336	Pass
NVNT	ANT1	3-DH5	2402.00	-0.950	-49.716	-20.950	Pass
NVNT	ANT1	3-DH5	2441.00	-1.500	-49.398	-21.500	Pass
NVNT	ANT1	3-DH5	2480.00	-1.360	-48.074	-21.360	Pass

1_Reference_Level_NVNT_ANT1_1-DH5_2402_00

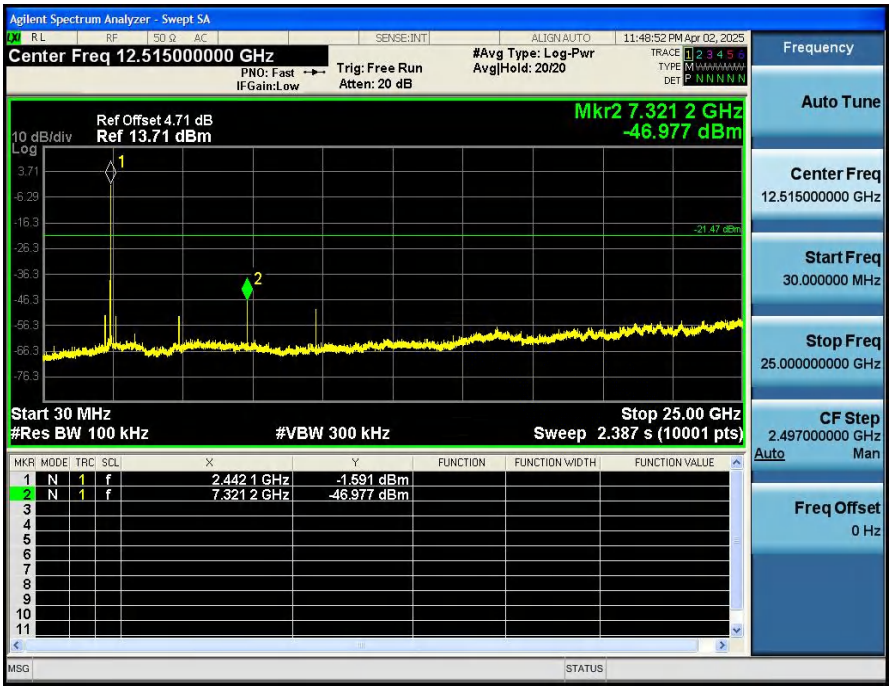
2_Spurious_Emissions_NVNT_ANT1_1-DH5_2402_00



1_Reference_Level_NVNT_ANT1_1-DH5_2441_00

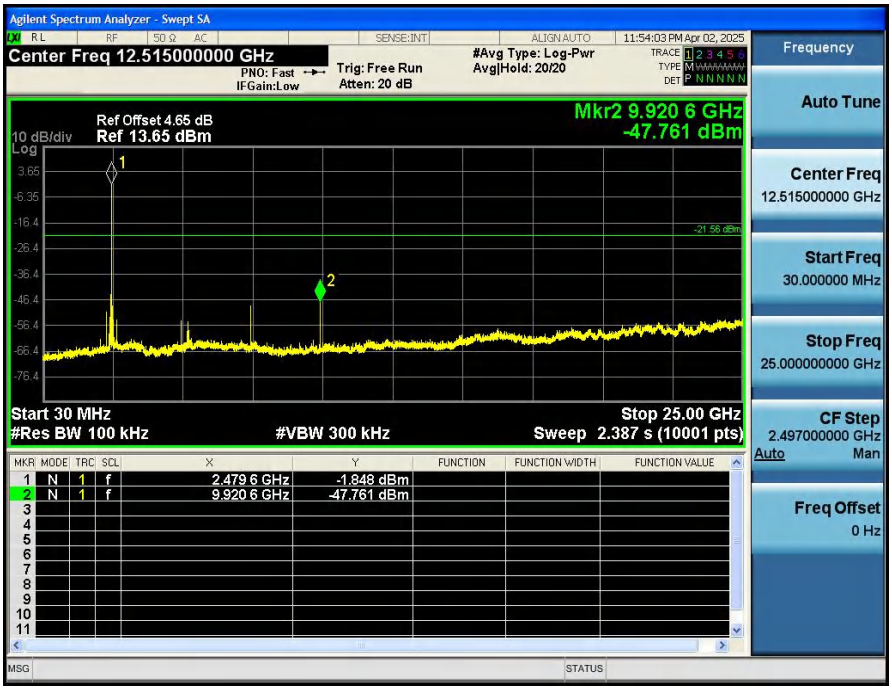


2_Spurious_Emissions_NVNT_ANT1_1-DH5_2441_00



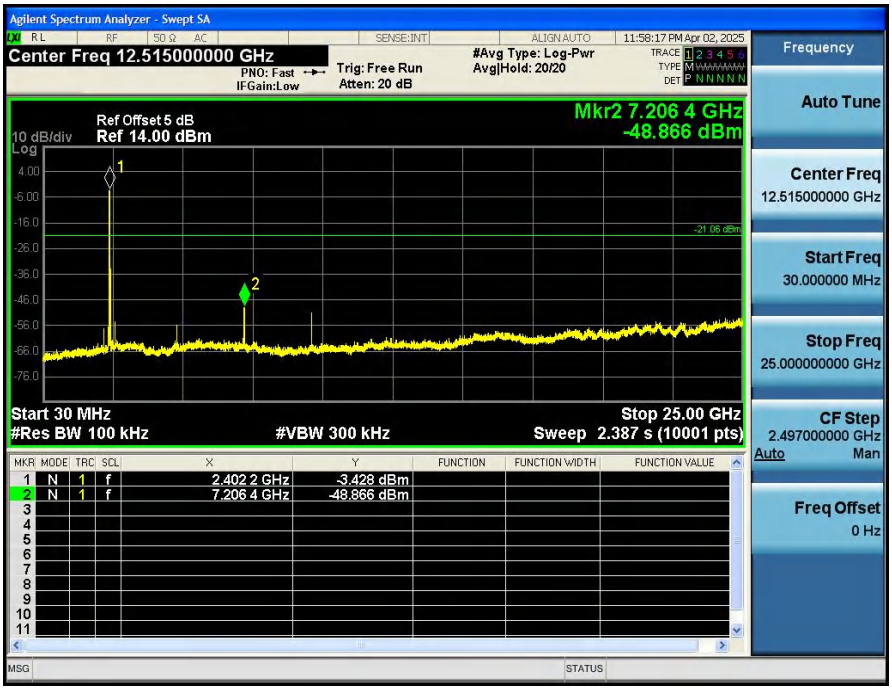
1_Reference_Level_NVNT_ANT1_1-DH5_2480_00

2_Spurious_Emissions_NVNT_ANT1_1-DH5_2480_00



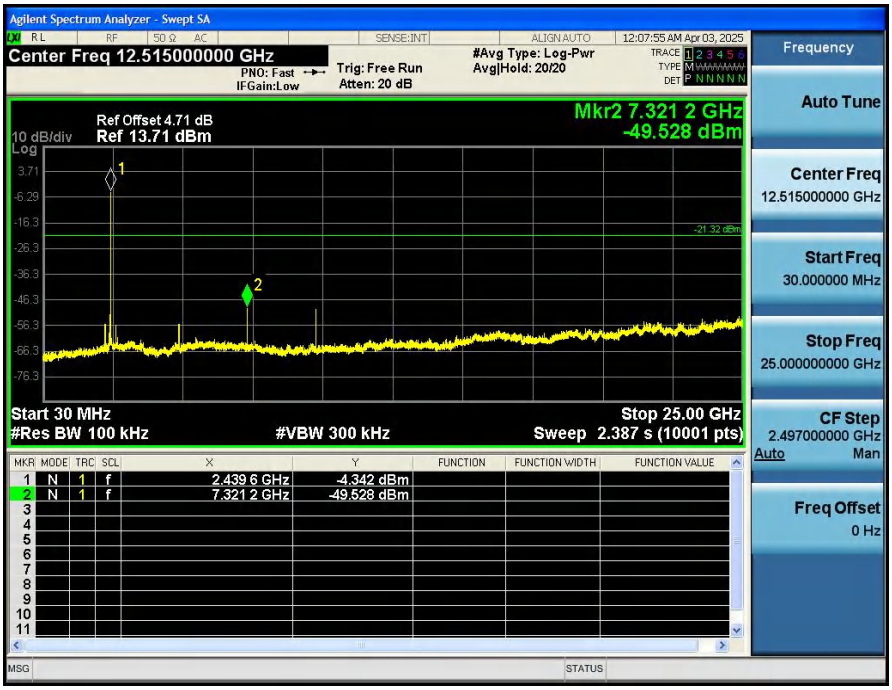
1_Reference_Level_NVNT_ANT1_2-DH5_2402_00

2_Spurious_Emissions_NVNT_ANT1_2-DH5_2402_00



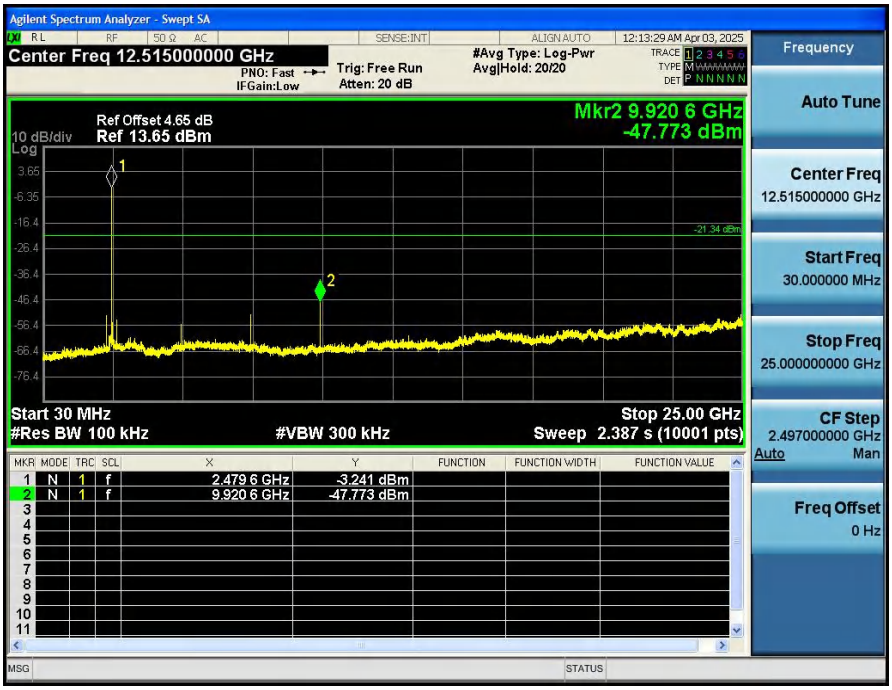
1_Reference_Level_NVNT_ANT1_2-DH5_2441_00

2_Spurious_Emissions_NVNT_ANT1_2-DH5_2441_00



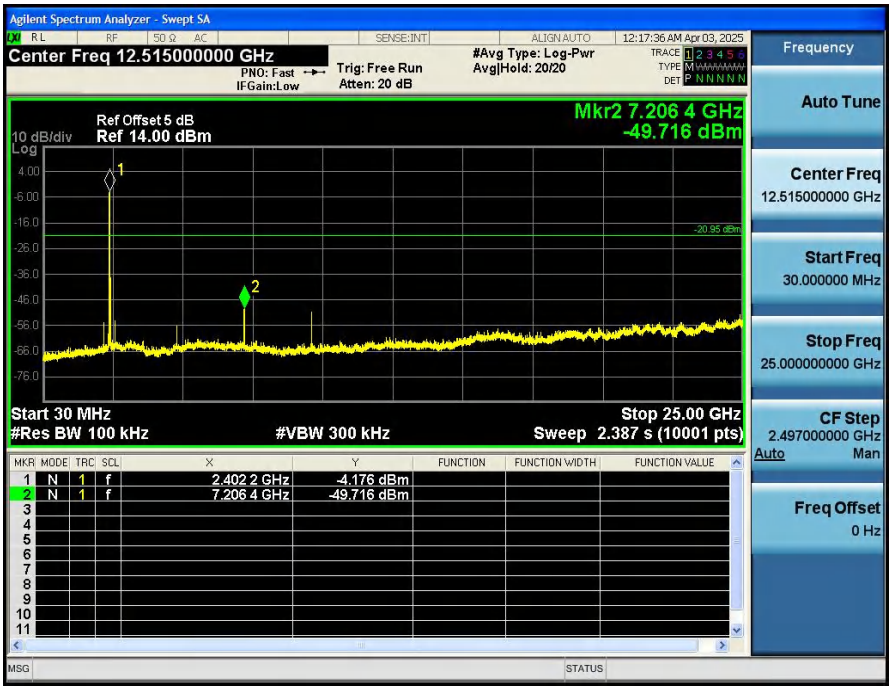
1_Reference_Level_NVNT_ANT1_2-DH5_2480_00

2_Spurious_Emissions_NVNT_ANT1_2-DH5_2480_00



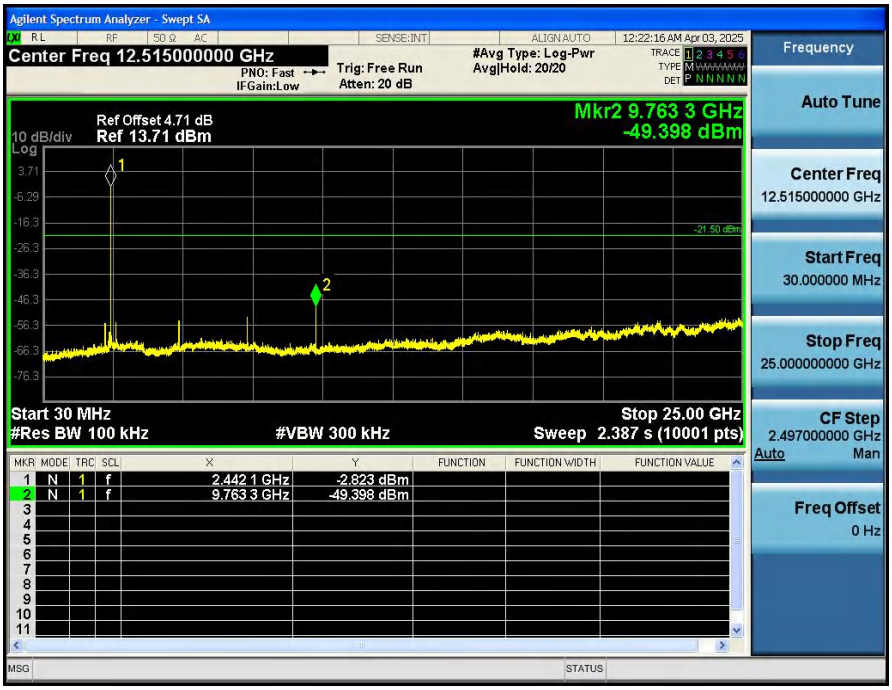
1_Reference_Level_NVNT_ANT1_3-DH5_2402_00

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