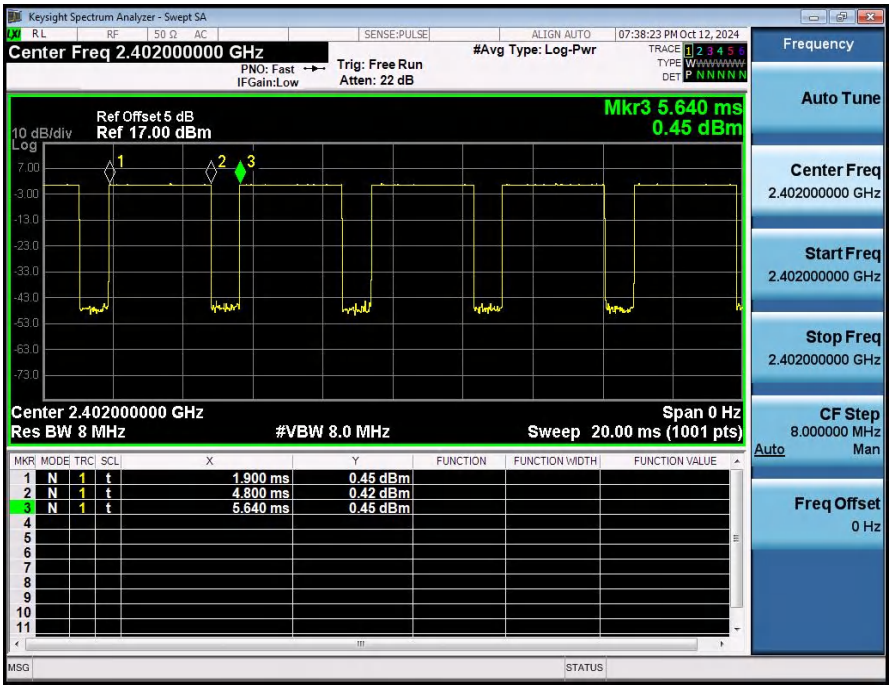
Appendix Test Data

Report No.:	1819C40051812501	Test Sample No.:	1-2-2
Start Test Date:	2024.10.12	Finish Test Date:	2024.11.14
Test Engineer:	Joker Wang	Auditor:	Justin Feng
Temperature:	25℃	Relative Humidity:	50%
Pressure:	101kPa		

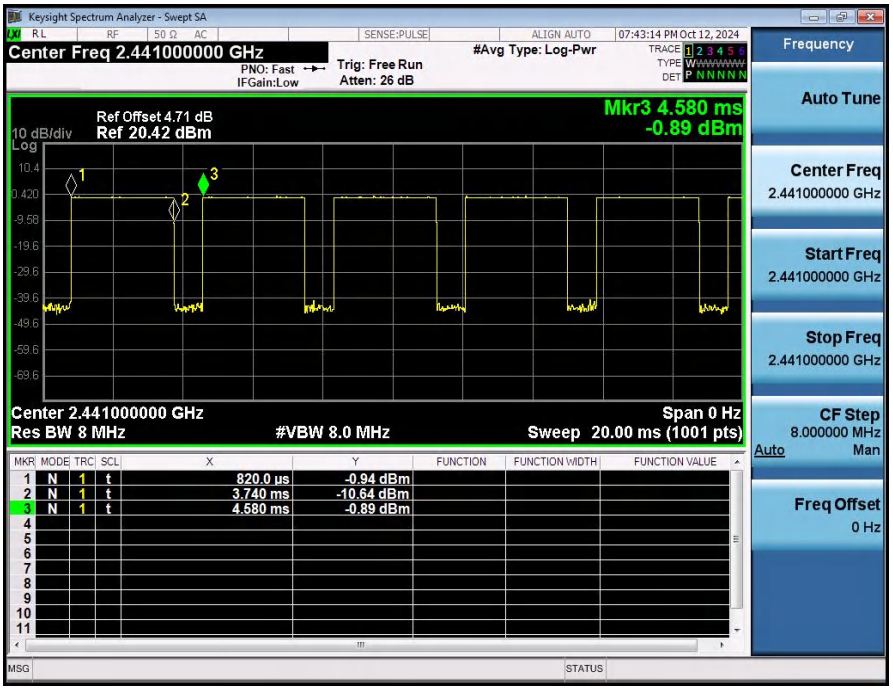
Appendix A: Duty Cycle

Condition	Antenna	Rate	Frequency (MHz)	Duty_factor
NVNT	ANT1	1-DH5	2402.00	1.07
NVNT	ANT1	1-DH5	2441.00	1.10
NVNT	ANT1	1-DH5	2480.00	1.07
NVNT	ANT1	2-DH5	2402.00	1.07
NVNT	ANT1	2-DH5	2441.00	1.07
NVNT	ANT1	2-DH5	2480.00	1.07
NVNT	ANT1	3-DH5	2402.00	1.07
NVNT	ANT1	3-DH5	2441.00	1.10
NVNT	ANT1	3-DH5	2480.00	1.05

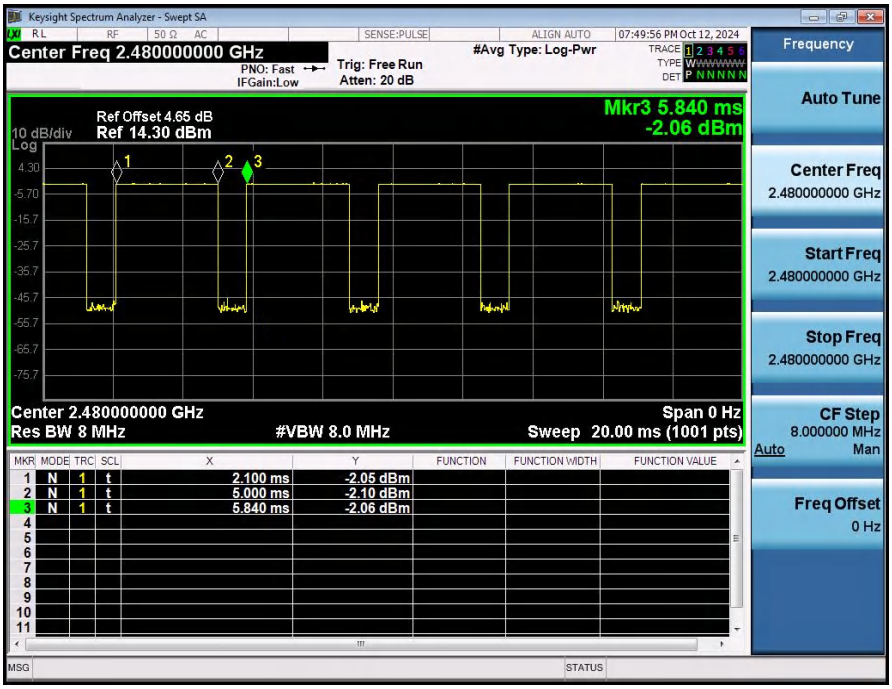
Duty_Cycle_NVNT_ANT1_1-DH5_2402



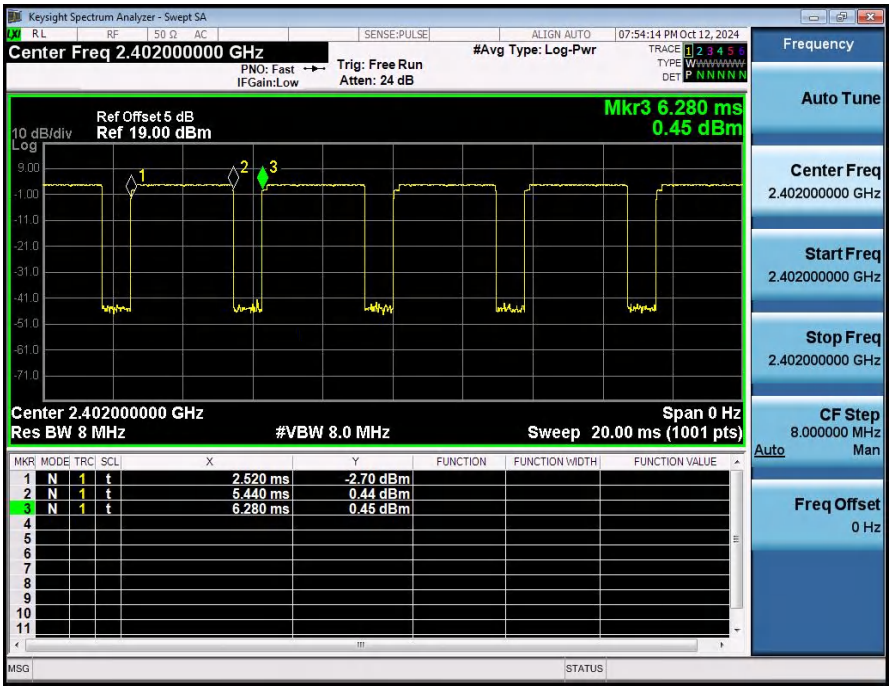
Duty_Cycle_NVNT_ANT1_1-DH5_2441



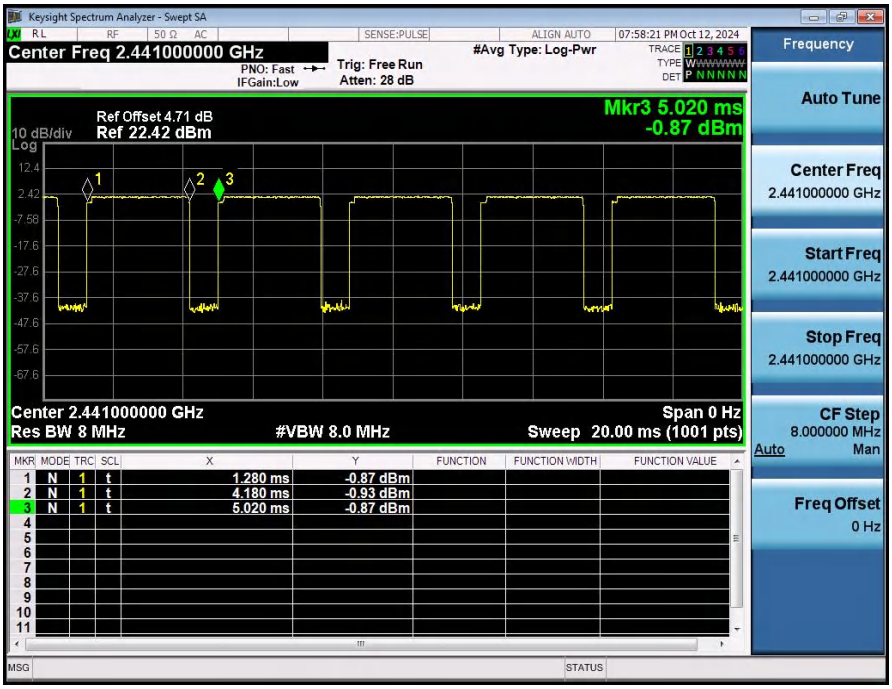
Duty_Cycle_NVNT_ANT1_1-DH5_2480



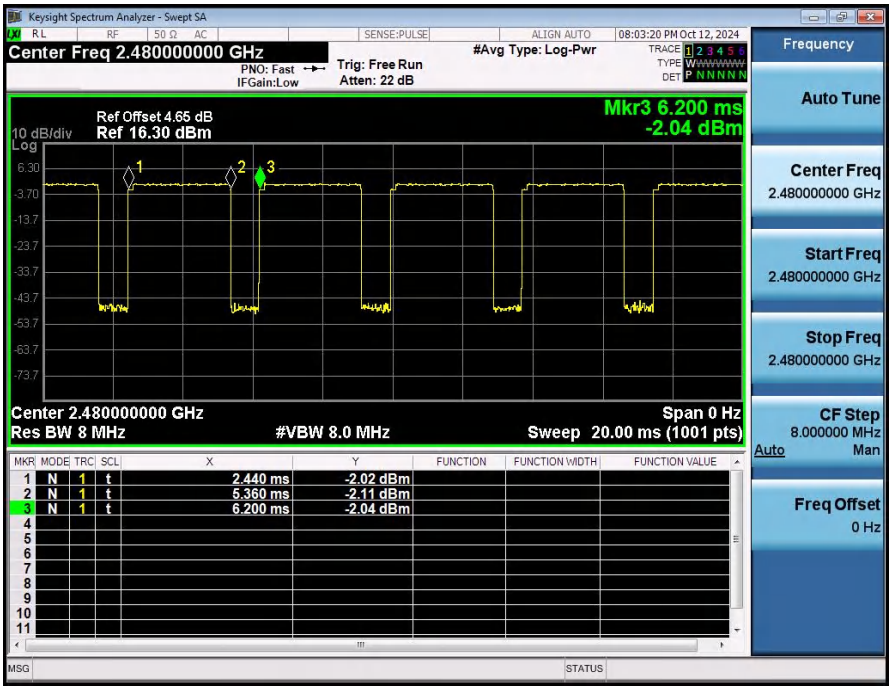
Duty_Cycle_NVNT_ANT1_2-DH5_2402



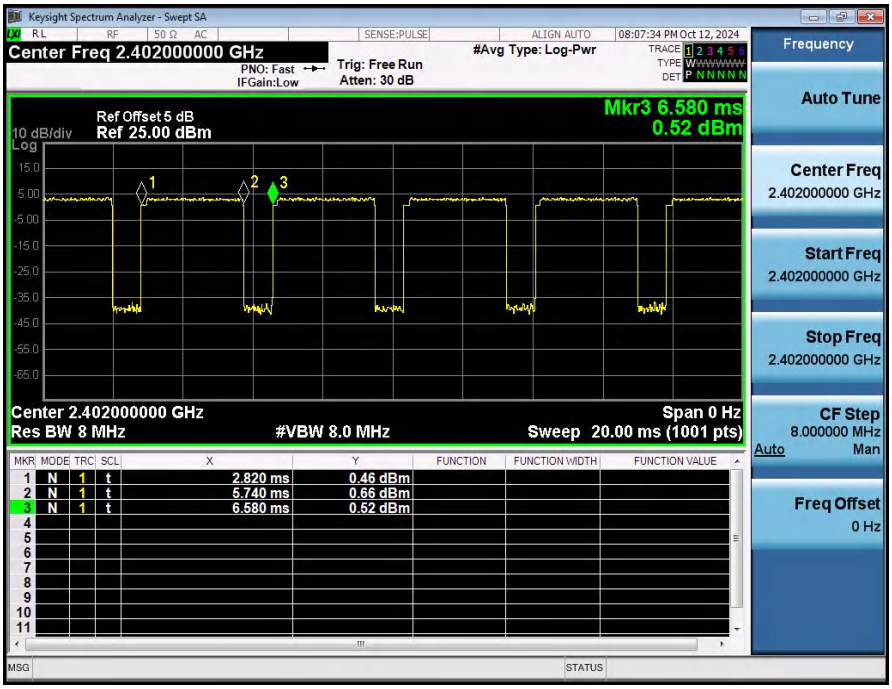
Duty_Cycle_NVNT_ANT1_2-DH5_2441



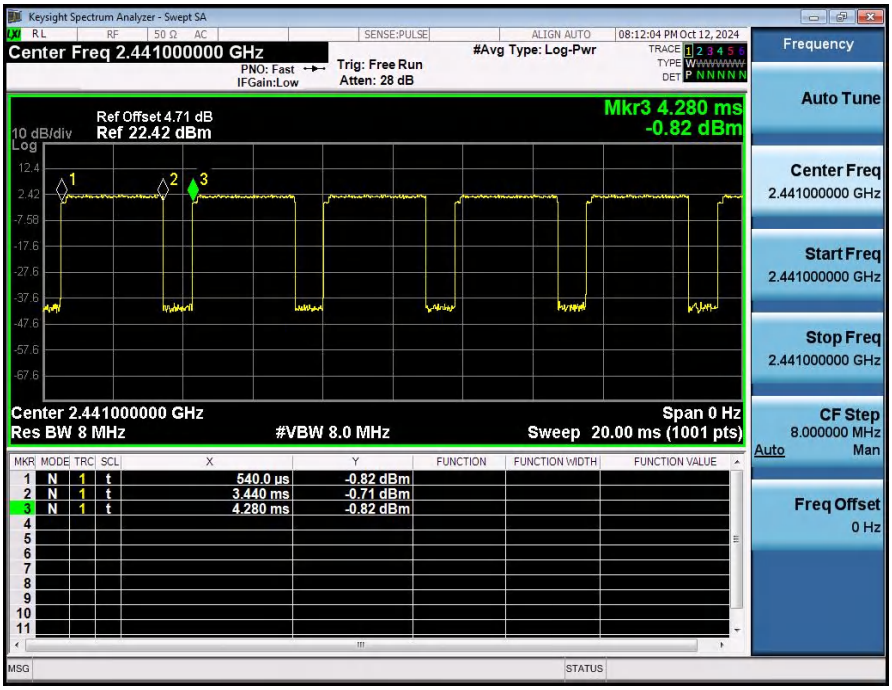
Duty_Cycle_NVNT_ANT1_2-DH5_2480



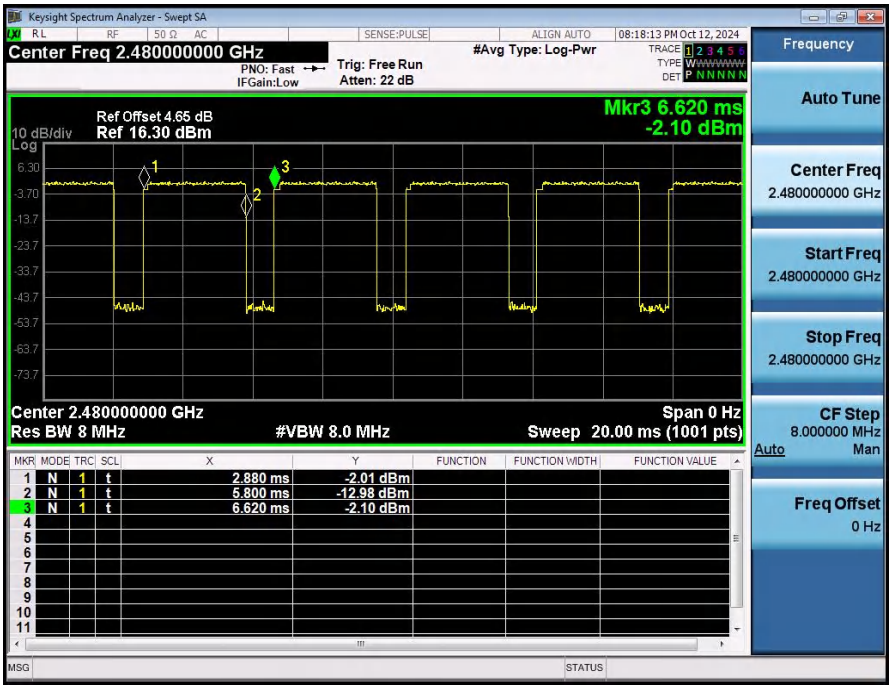
Duty_Cycle_NVNT_ANT1_3-DH5_2402



Duty_Cycle_NVNT_ANT1_3-DH5_2441



Duty_Cycle_NVNT_ANT1_3-DH5_2480

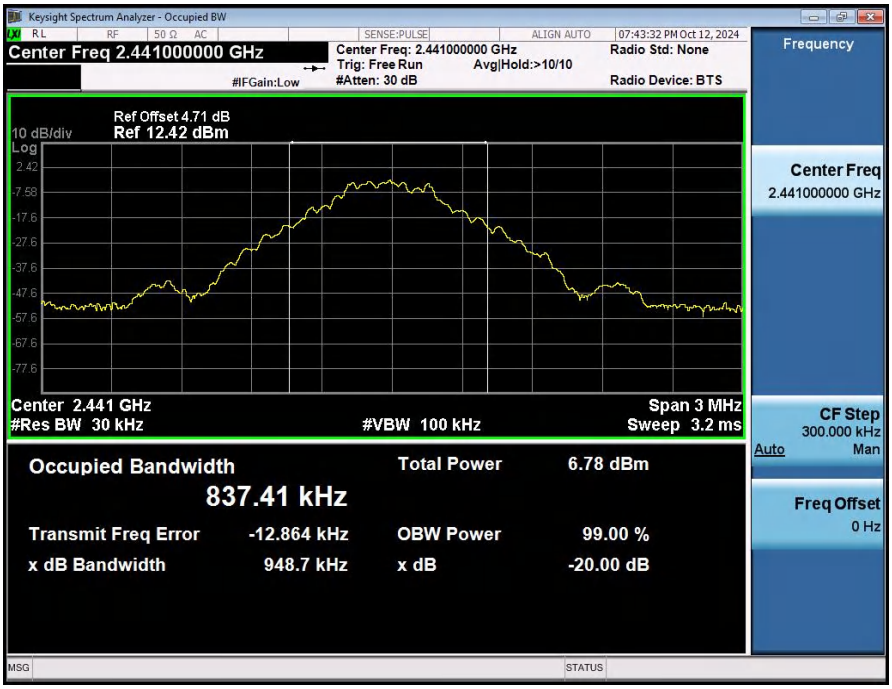

Keysight Spectrum Analyzer - Swept SA
Center Freq 2.480000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 22 dB
#Avg Type: Log-Pwr
08:18:13 PM Oct 12, 2024
Ref Offset 4.65 dB
10 dB/div
Log
Ref 16.30 dBm
Mkr3 6.620 ms
-2.10 dBm
Center 2.480000000 GHz
Res BW 8 MHz
#VBW 8.0 MHz
Span 0 Hz
Sweep 20.00 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 t 2.880 ms -2.01 dBm
2 N 1 t 5.800 ms -12.98 dBm
3 N 1 t 6.620 ms -2.10 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

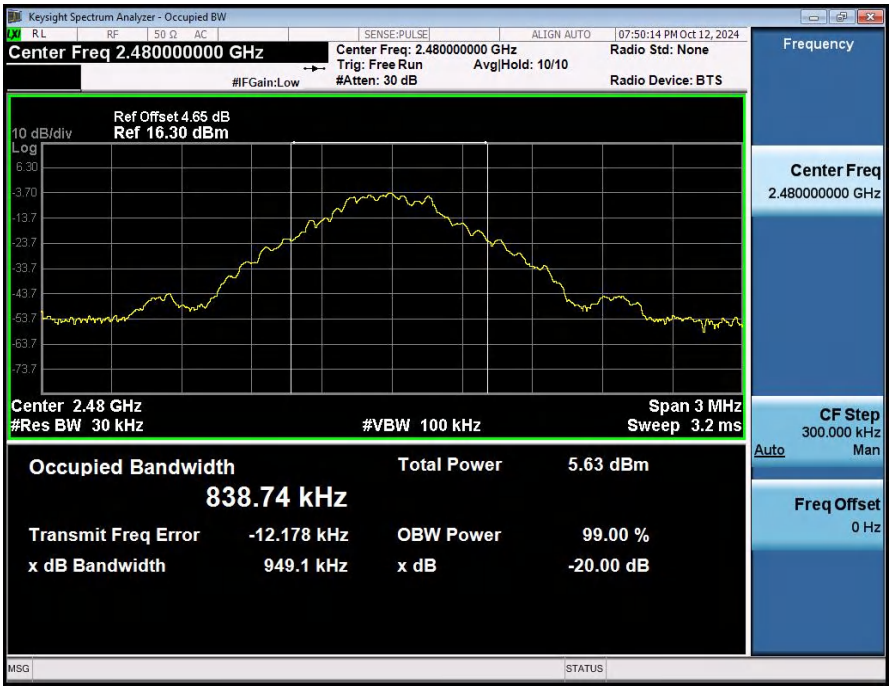
Condition	Antenna	Modulation	Frequency (MHz)	-20dB BW(MHz)	if larger than CFS
NVNT	ANT1	1-DH5	2402.00	0.950	No
NVNT	ANT1	1-DH5	2441.00	0.949	No
NVNT	ANT1	1-DH5	2480.00	0.949	No
NVNT	ANT1	2-DH5	2402.00	1.287	Yes
NVNT	ANT1	2-DH5	2441.00	1.286	Yes
NVNT	ANT1	2-DH5	2480.00	1.306	Yes
NVNT	ANT1	3-DH5	2402.00	1.302	Yes
NVNT	ANT1	3-DH5	2441.00	1.302	Yes
NVNT	ANT1	3-DH5	2480.00	1.302	Yes

-20dB_Bandwidth_NVNT_ANT1_1-DH5_2402_00

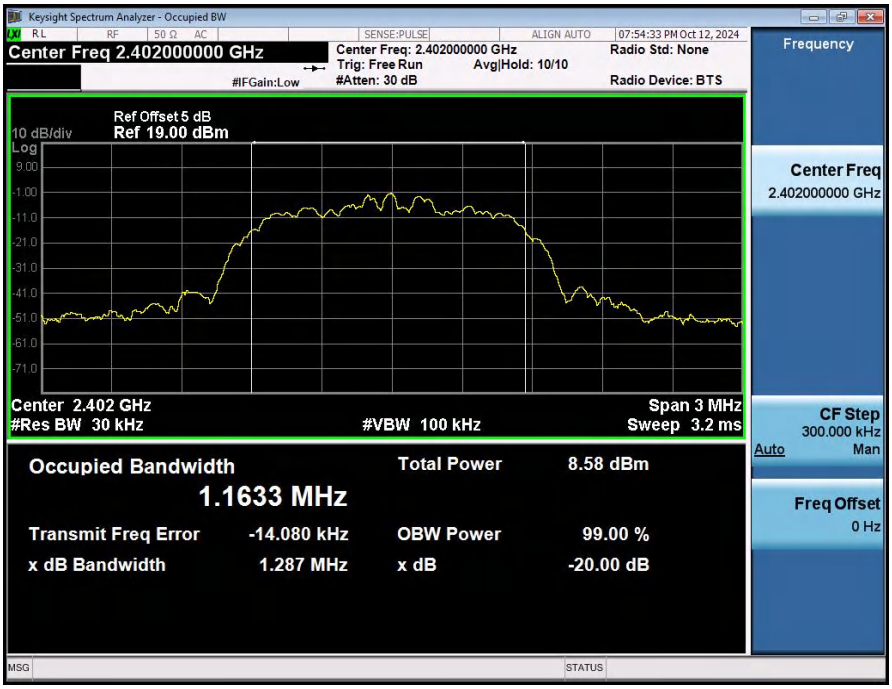
-20dB_Bandwidth_NVNT_ANT1_1-DH5_2441_00



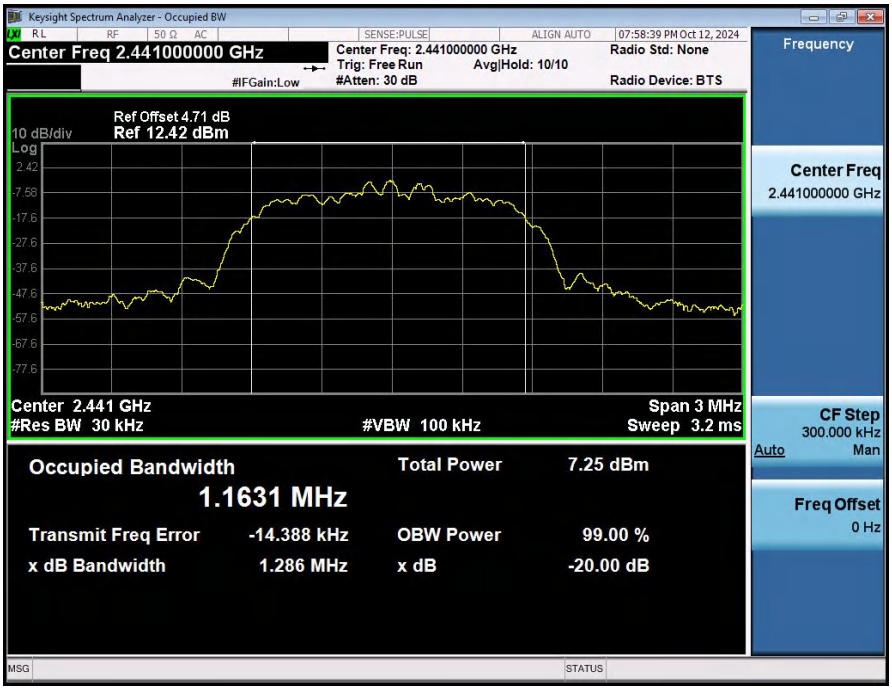
-20dB_Bandwidth_NVNT_ANT1_1-DH5_2480_00



-20dB_Bandwidth_NVNT_ANT1_2-DH5_2402_00

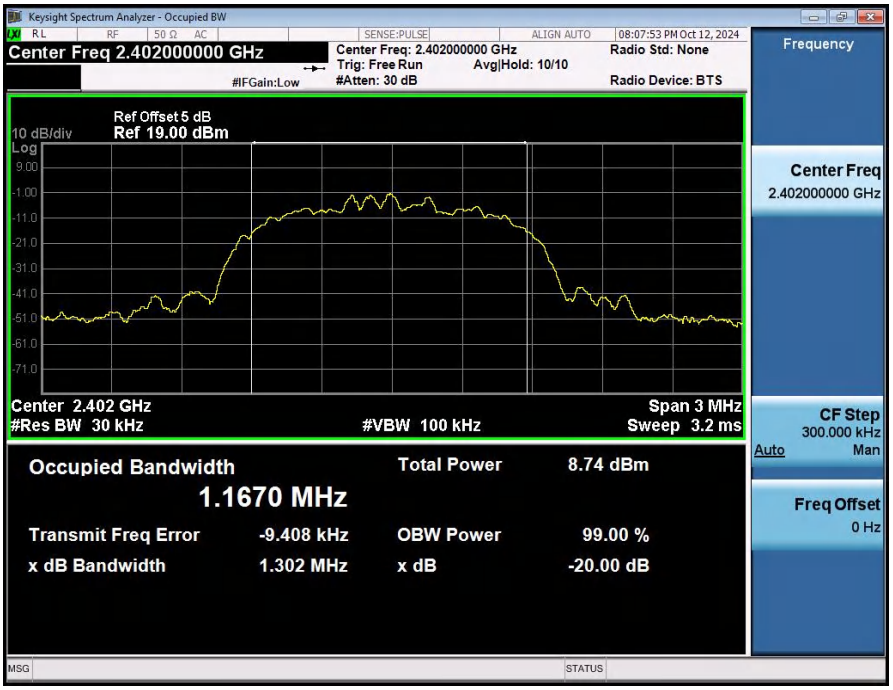


-20dB_Bandwidth_NVNT_ANT1_2-DH5_2441_00

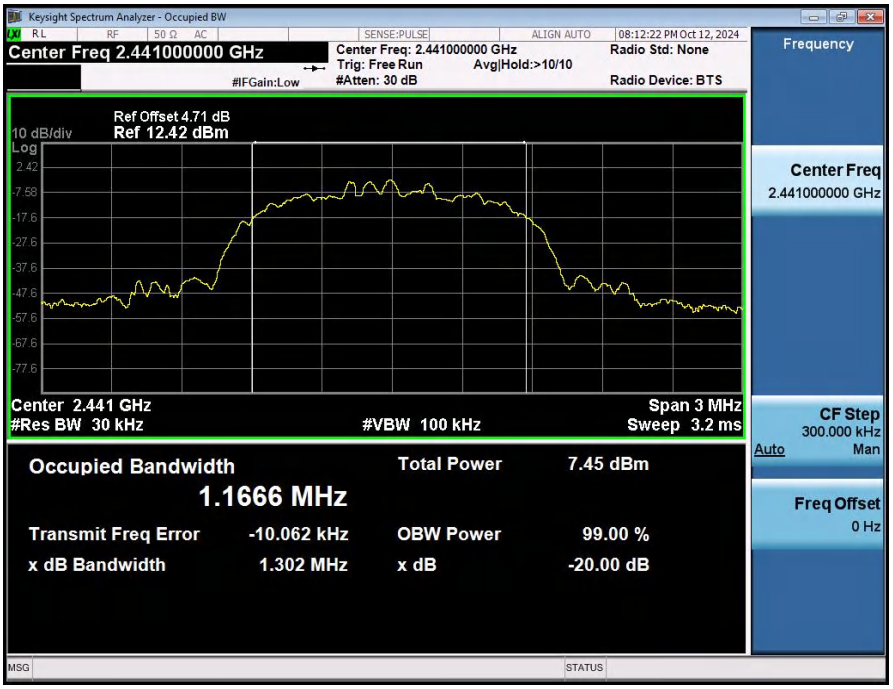


-20dB_Bandwidth_NVNT_ANT1_2-DH5_2480_00

-20dB_Bandwidth_NVNT_ANT1_3-DH5_2402_00



-20dB_Bandwidth_NVNT_ANT1_3-DH5_2441_00



-20dB_Bandwidth_NVNT_ANT1_3-DH5_2480_00

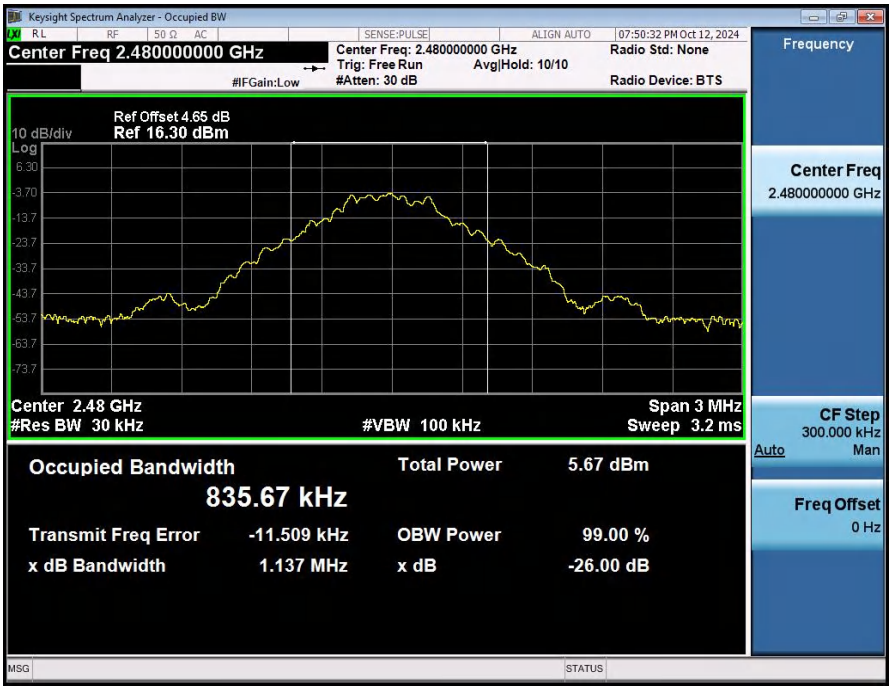
Appendix C: 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99%BW(MHz)
NVNT	ANT1	1-DH5	2402.00	0.834
NVNT	ANT1	1-DH5	2441.00	0.835
NVNT	ANT1	1-DH5	2480.00	0.836
NVNT	ANT1	2-DH5	2402.00	1.162
NVNT	ANT1	2-DH5	2441.00	1.162
NVNT	ANT1	2-DH5	2480.00	1.162
NVNT	ANT1	3-DH5	2402.00	1.167
NVNT	ANT1	3-DH5	2441.00	1.167
NVNT	ANT1	3-DH5	2480.00	1.168

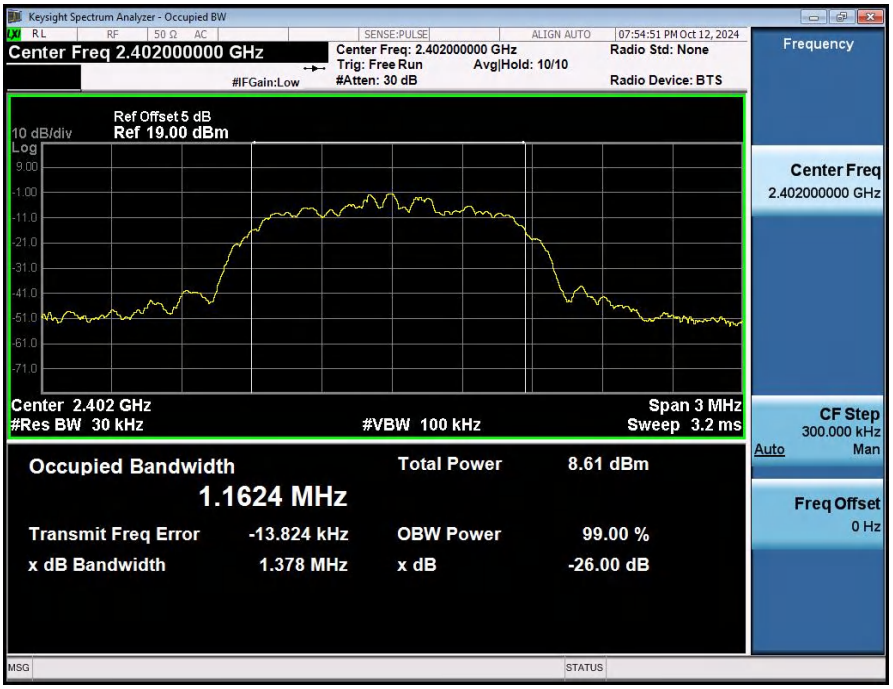
99%_Occupied_Bandwidth_NVNT_ANT1_1-DH5_2402_00

99%_Occupied_Bandwidth_NVNT_ANT1_1-DH5_2441_00

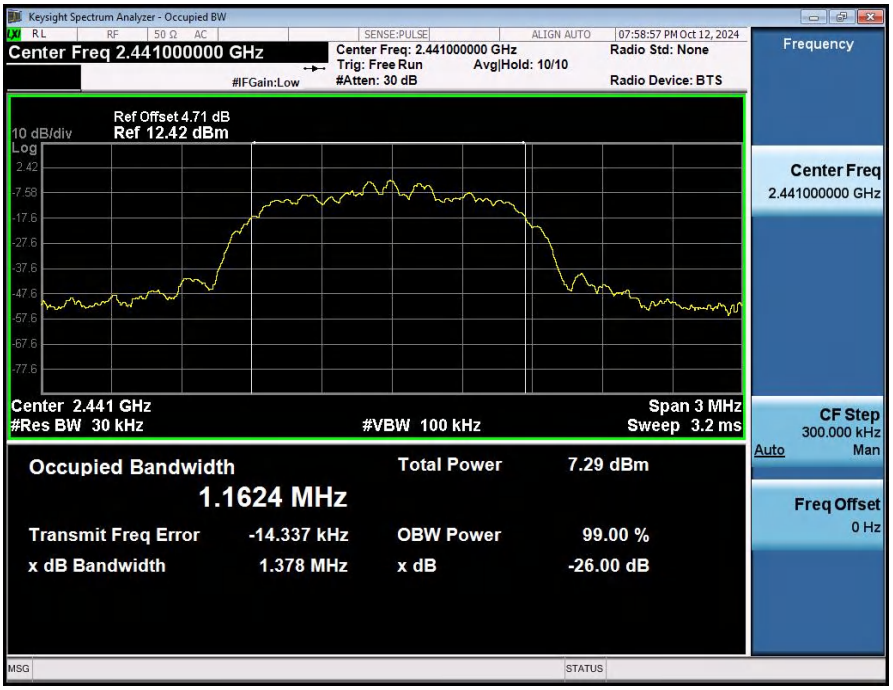
99%_Occupied_Bandwidth_NVNT_ANT1_1-DH5_2480_00



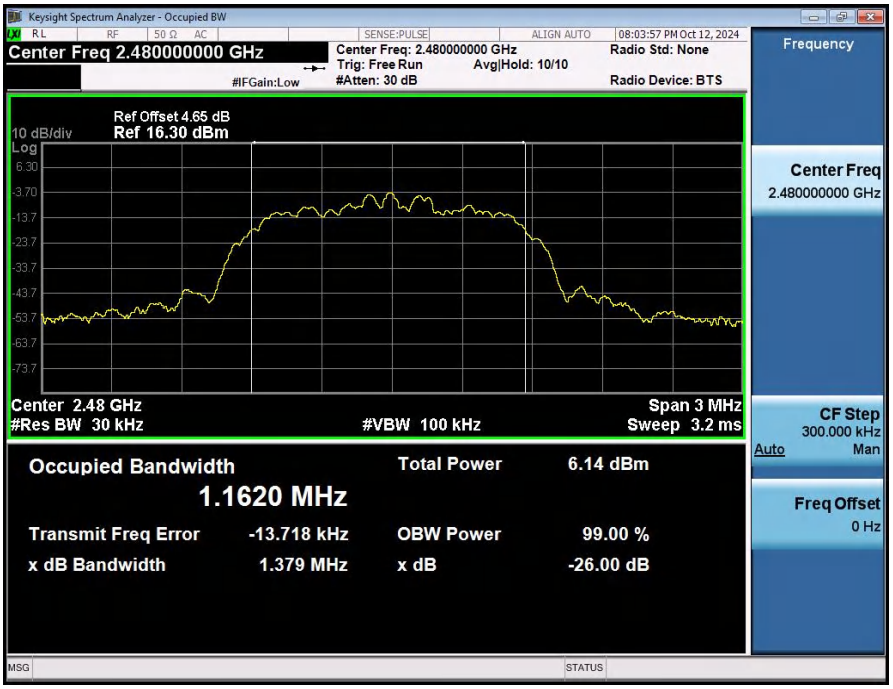
99%_Occupied_Bandwidth_NVNT_ANT1_2-DH5_2402_00



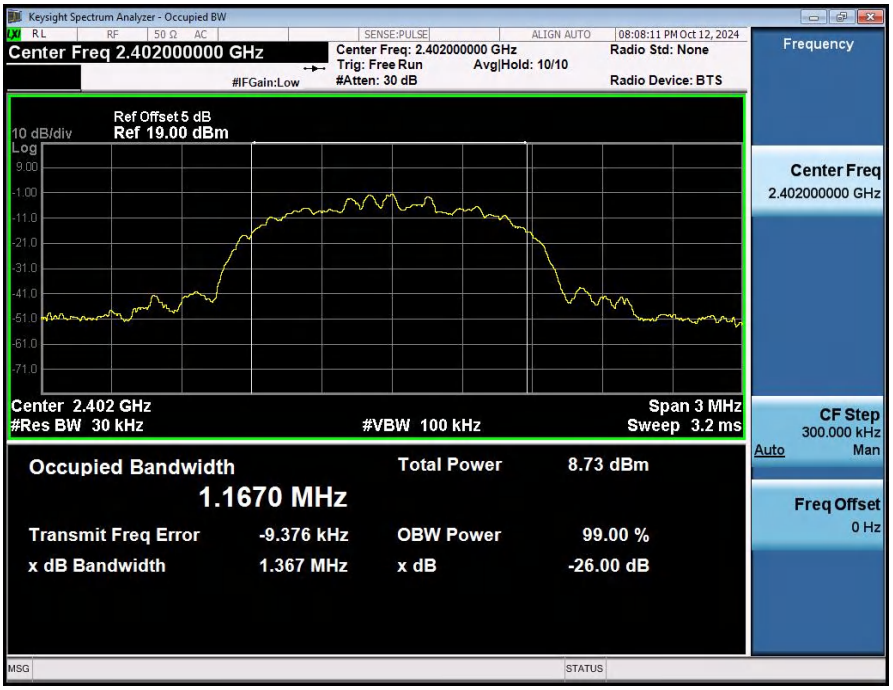
99%_Occupied_Bandwidth_NVNT_ANT1_2-DH5_2441_00



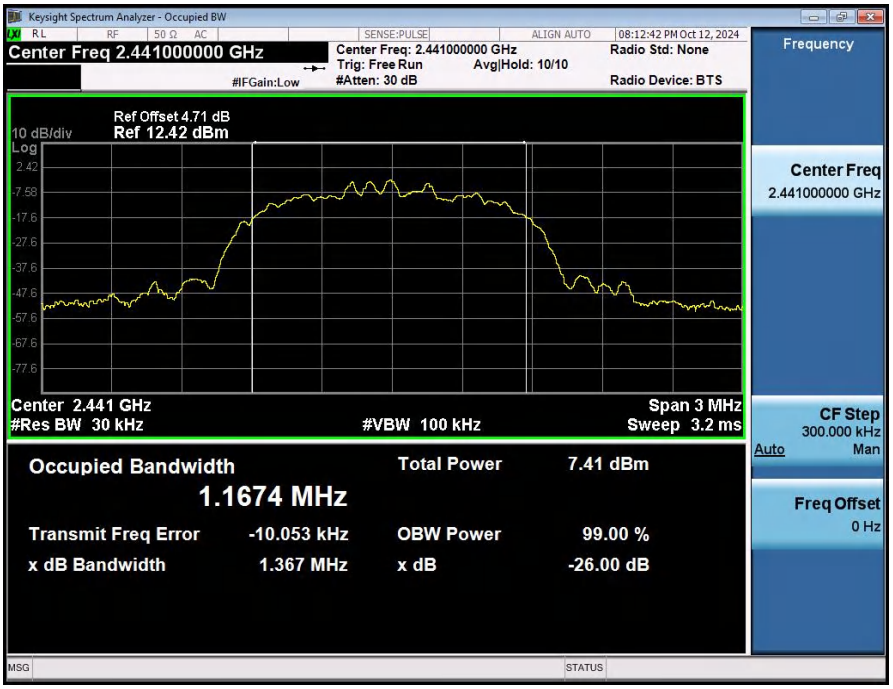
99%_Occupied_Bandwidth_NVNT_ANT1_2-DH5_2480_00



99%_Occupied_Bandwidth_NVNT_ANT1_3-DH5_2402_00



99%_Occupied_Bandwidth_NVNT_ANT1_3-DH5_2441_00

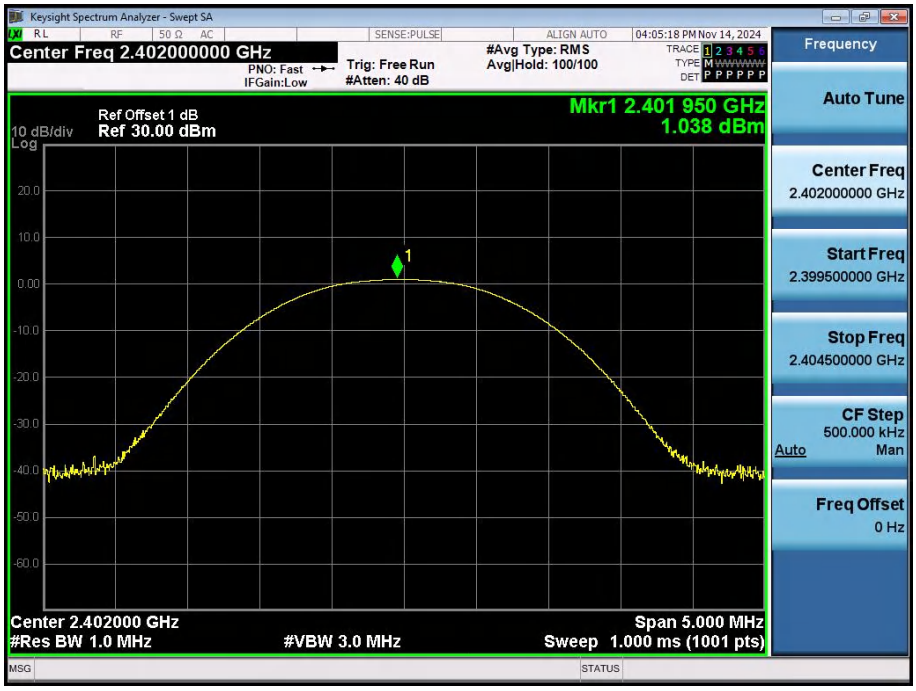


99%_Occupied_Bandwidth_NVNT_ANT1_3-DH5_2480_00

Appendix D: Peak Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Max. Conducted Power(dBm)	Limit(mw)	Result
NVNT	ANT1	1-DH5	2402.00	1.04	1000	Pass
NVNT	ANT1	1-DH5	2441.00	2.24	1000	Pass
NVNT	ANT1	1-DH5	2480.00	0.67	1000	Pass
NVNT	ANT1	2-DH5	2402.00	0.68	125	Pass
NVNT	ANT1	2-DH5	2441.00	1.94	125	Pass
NVNT	ANT1	2-DH5	2480.00	0.59	125	Pass
NVNT	ANT1	3-DH5	2402.00	0.92	125	Pass
NVNT	ANT1	3-DH5	2441.00	2.23	125	Pass
NVNT	ANT1	3-DH5	2480.00	0.98	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

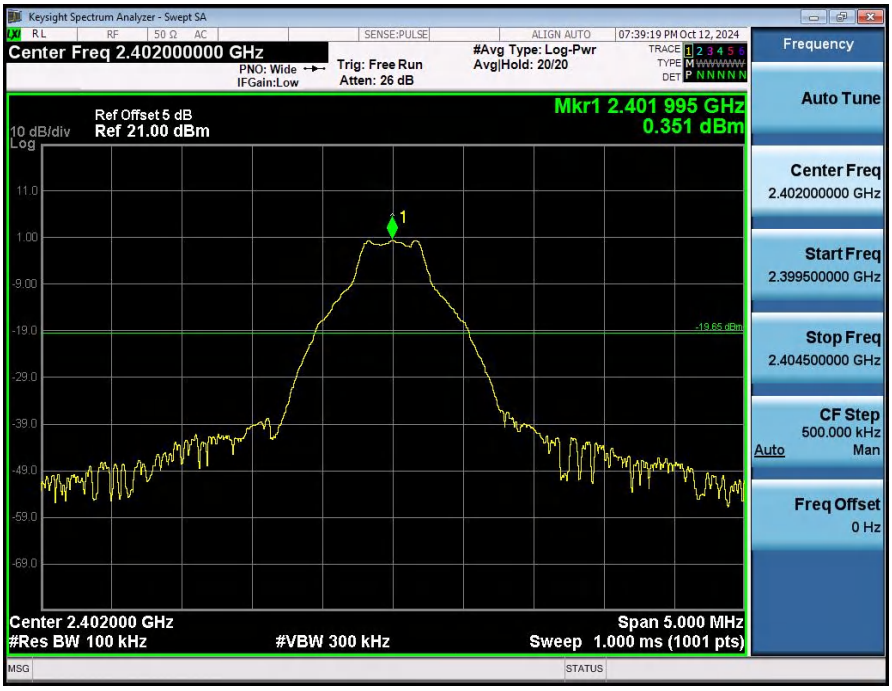
Peak_Output_Power_NVNT_ANT1_3-DH5_2441_00

Peak_Output_Power_NVNT_ANT1_3-DH5_2480_00

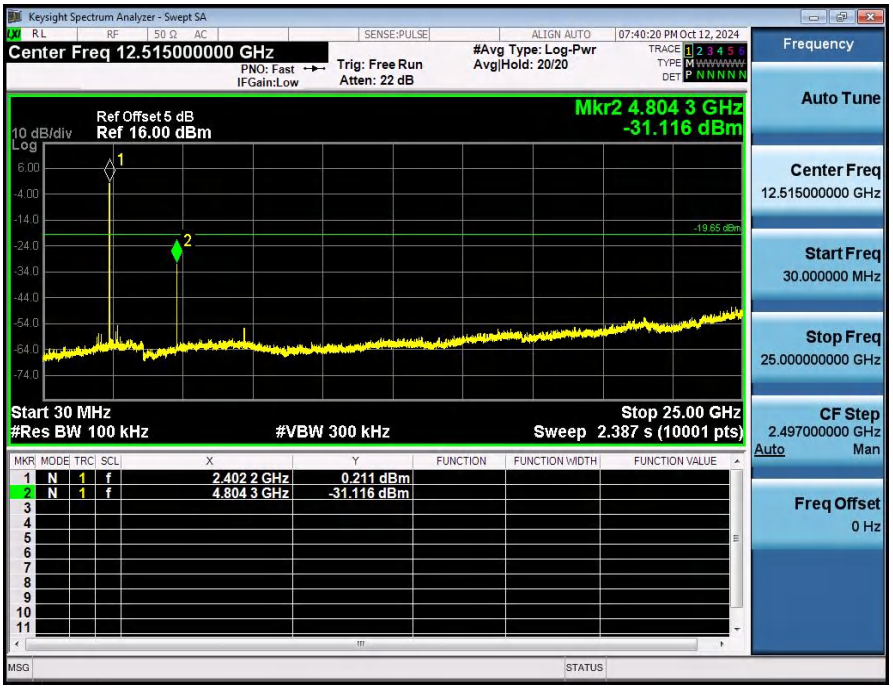
Appendix E: Spurious Emissions

Condition	Antenna	Modulation	TX Mode	Spurious MAX.Value(dBm)	Limit	Result
NVNT	ANT1	1-DH5	2402.00	-31.116	-19.649	Pass
NVNT	ANT1	1-DH5	2441.00	-33.954	-20.968	Pass
NVNT	ANT1	1-DH5	2480.00	-37.146	-22.045	Pass
NVNT	ANT1	2-DH5	2402.00	-34.811	-19.610	Pass
NVNT	ANT1	2-DH5	2441.00	-35.711	-20.920	Pass
NVNT	ANT1	2-DH5	2480.00	-38.285	-22.116	Pass
NVNT	ANT1	3-DH5	2402.00	-34.054	-19.518	Pass
NVNT	ANT1	3-DH5	2441.00	-34.177	-20.861	Pass
NVNT	ANT1	3-DH5	2480.00	-38.295	-21.994	Pass

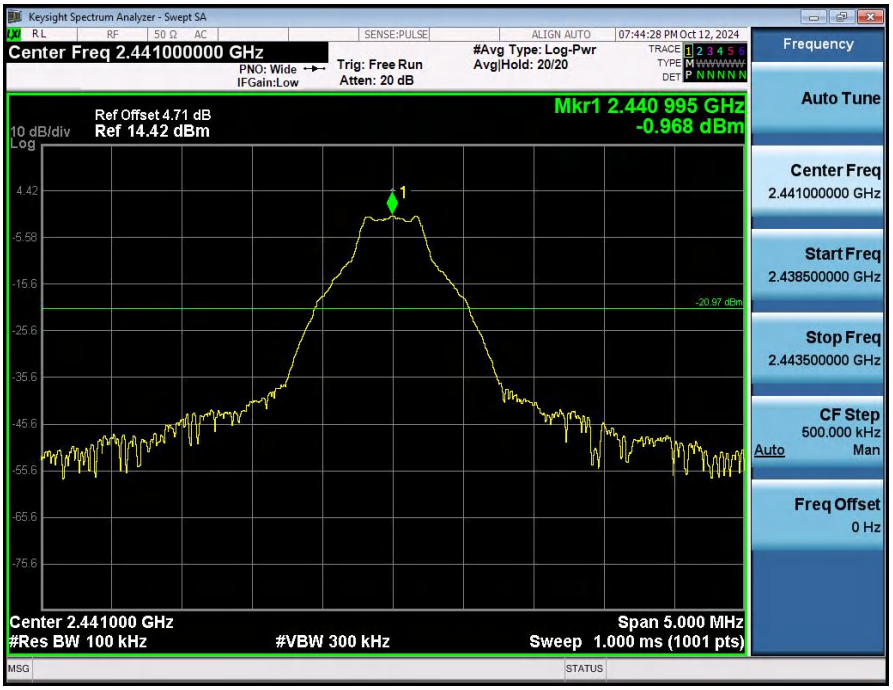
1_Reference_Level_NVNT_ANT1_1-DH5_2402_00



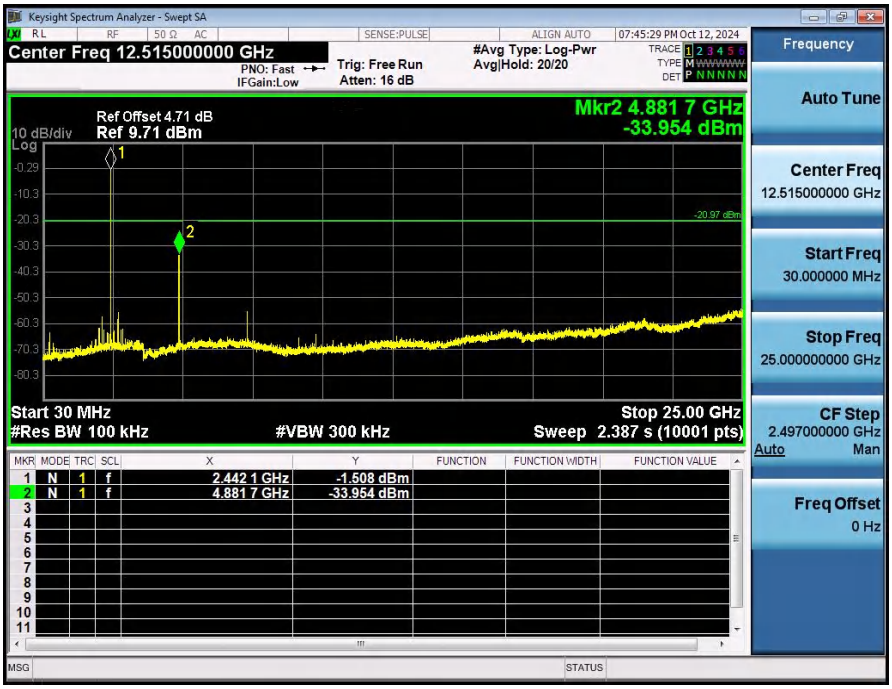
2_Spurious_Emissions_NVNT_ANT1_1-DH5_2402_00



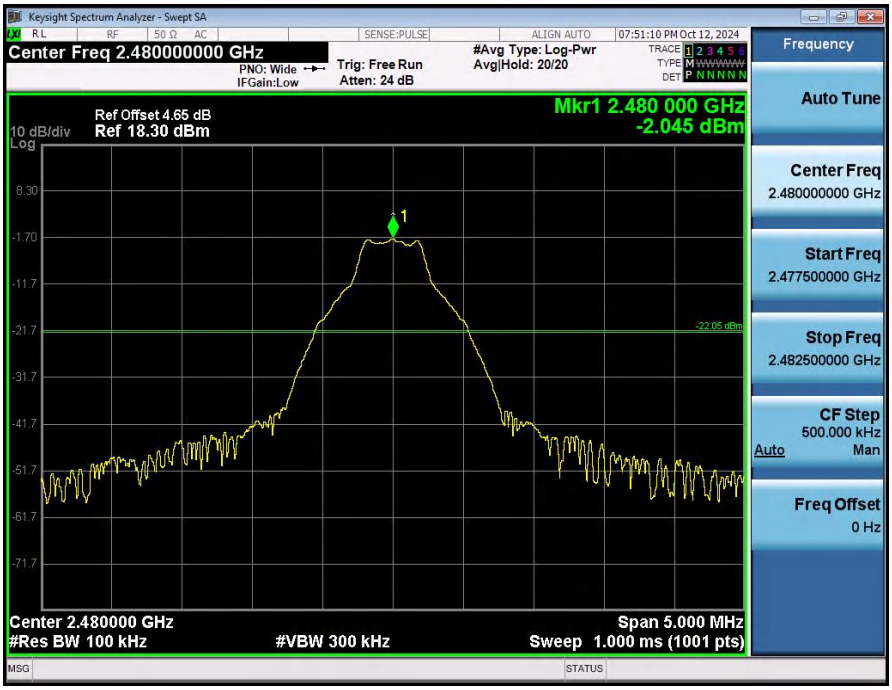
1_Reference_Level_NVNT_ANT1_1-DH5_2441_00



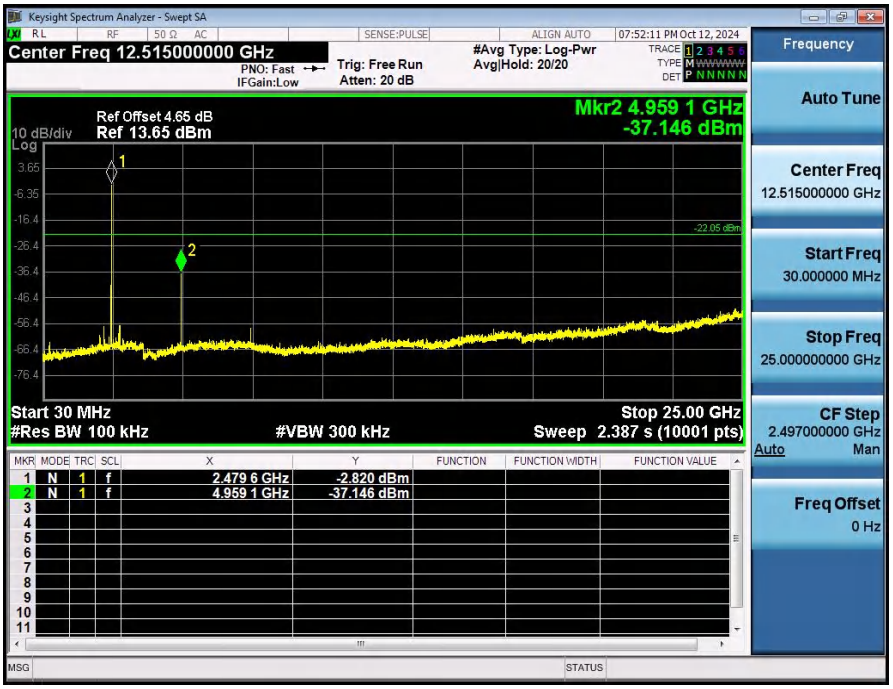
2_Spurious_Emissions_NVNT_ANT1_1-DH5_2441_00



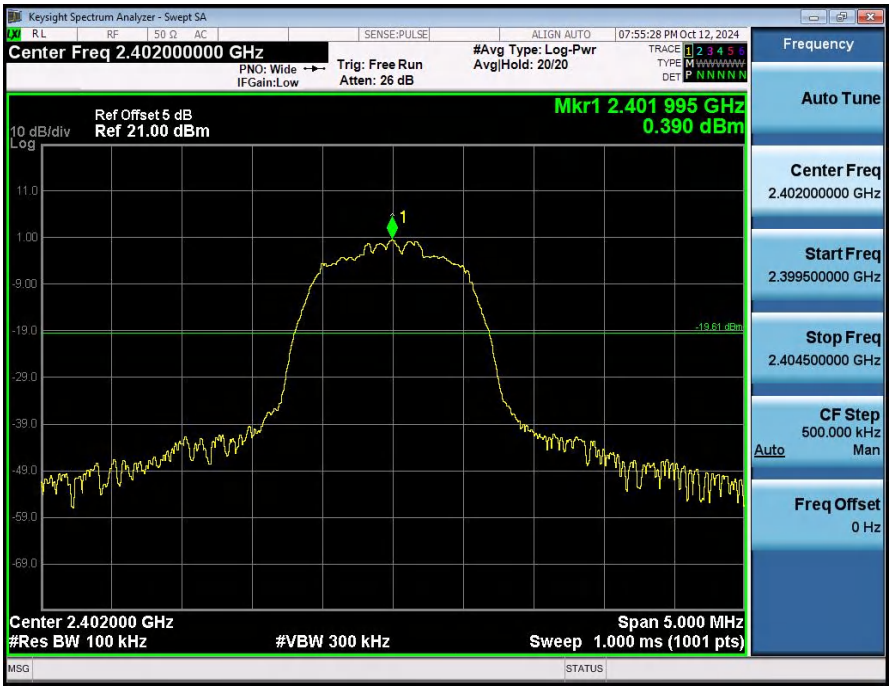
1_Reference_Level_NVNT_ANT1_1-DH5_2480_00



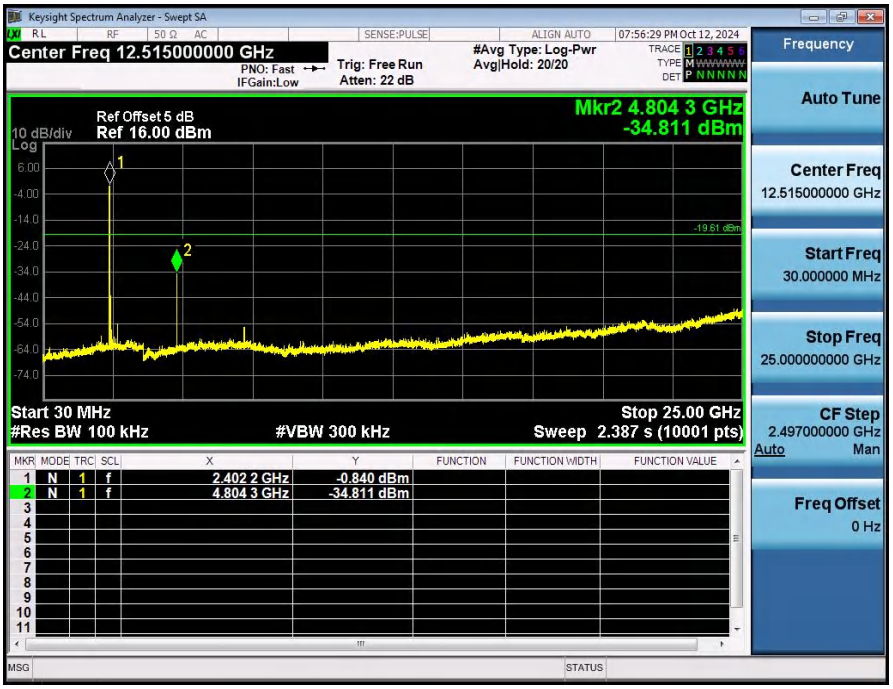
2_Spurious_Emissions_NVNT_ANT1_1-DH5_2480_00



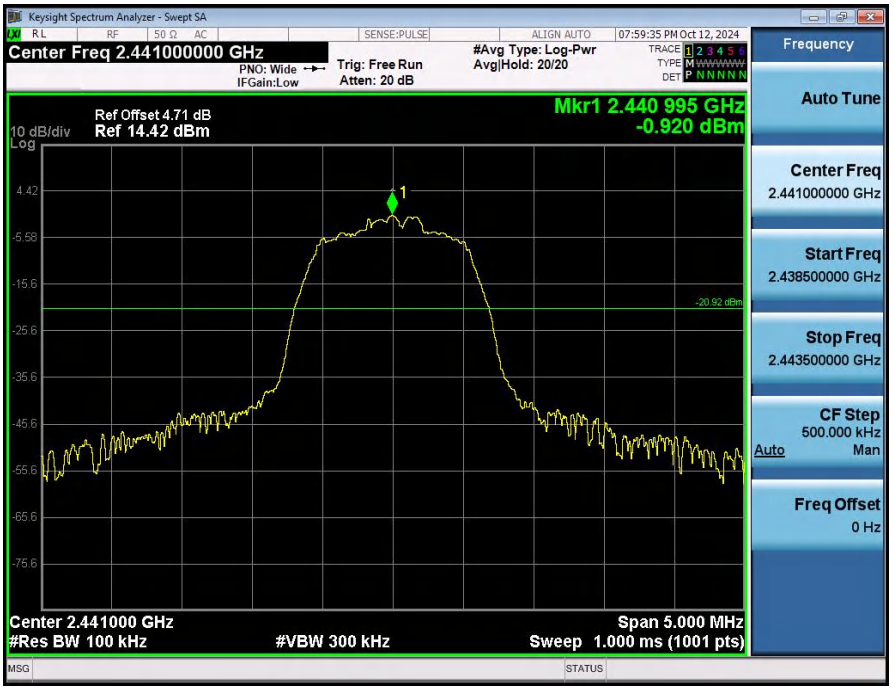
1_Reference_Level_NVNT_ANT1_2-DH5_2402_00



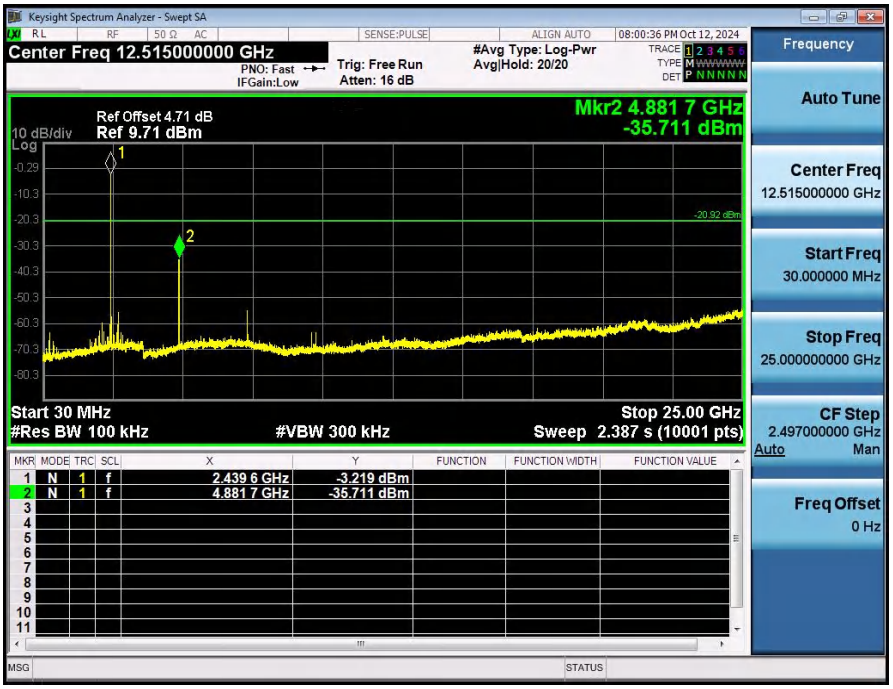
2_Spurious_Emissions_NVNT_ANT1_2-DH5_2402_00



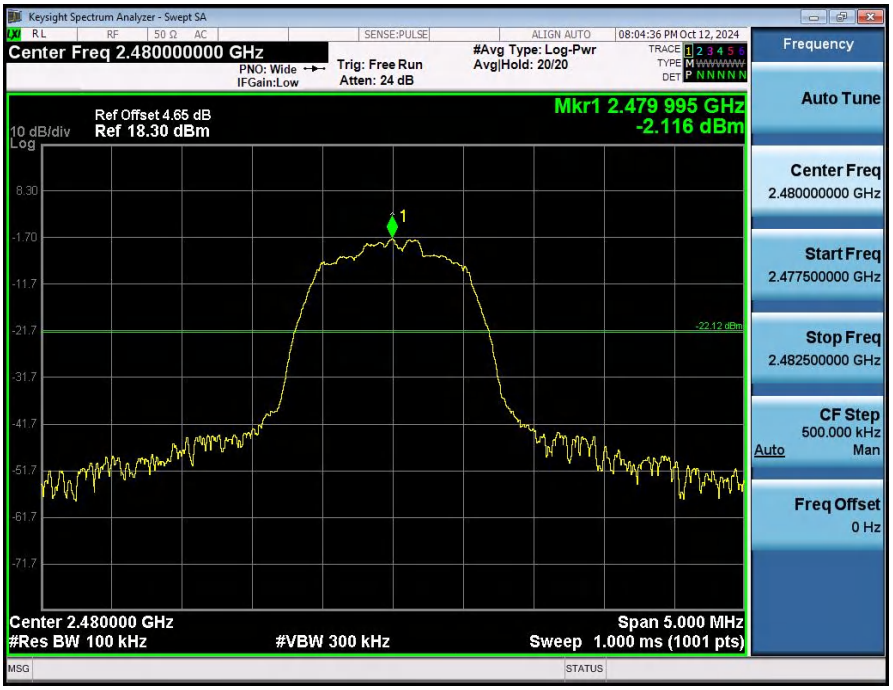
1_Reference_Level_NVNT_ANT1_2-DH5_2441_00



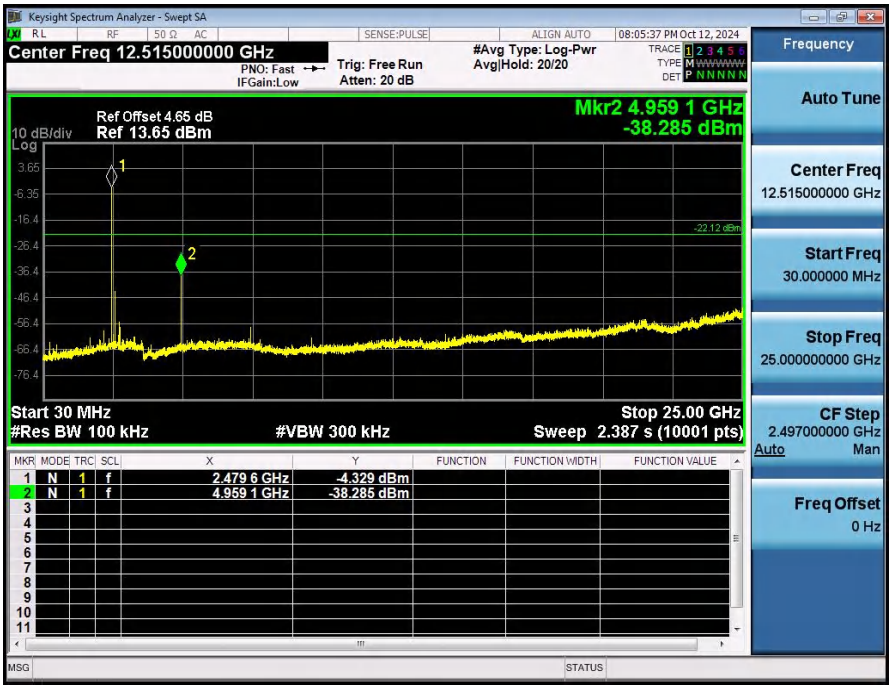
2_Spurious_Emissions_NVNT_ANT1_2-DH5_2441_00



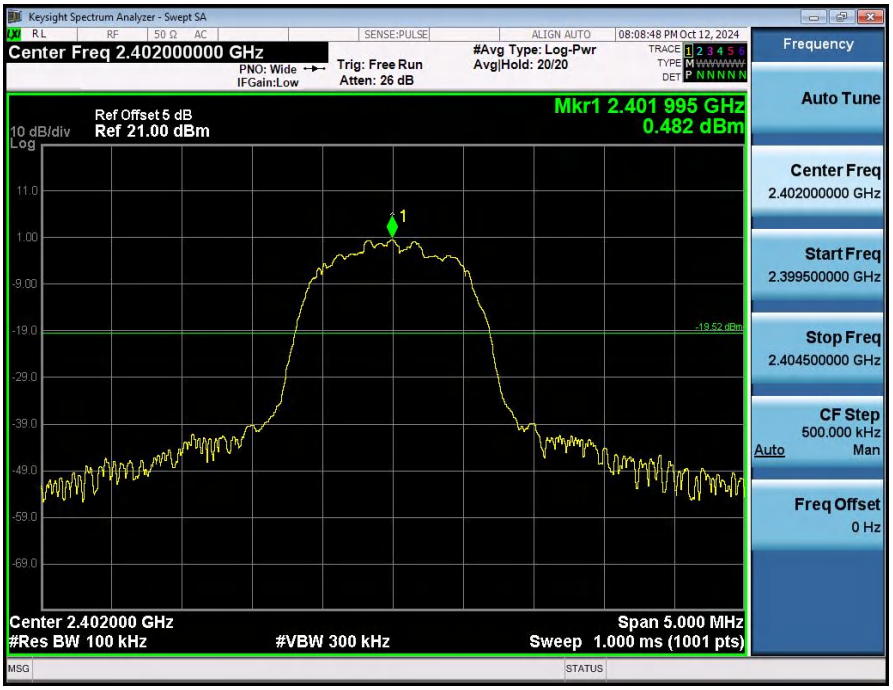
1_Reference_Level_NVNT_ANT1_2-DH5_2480_00



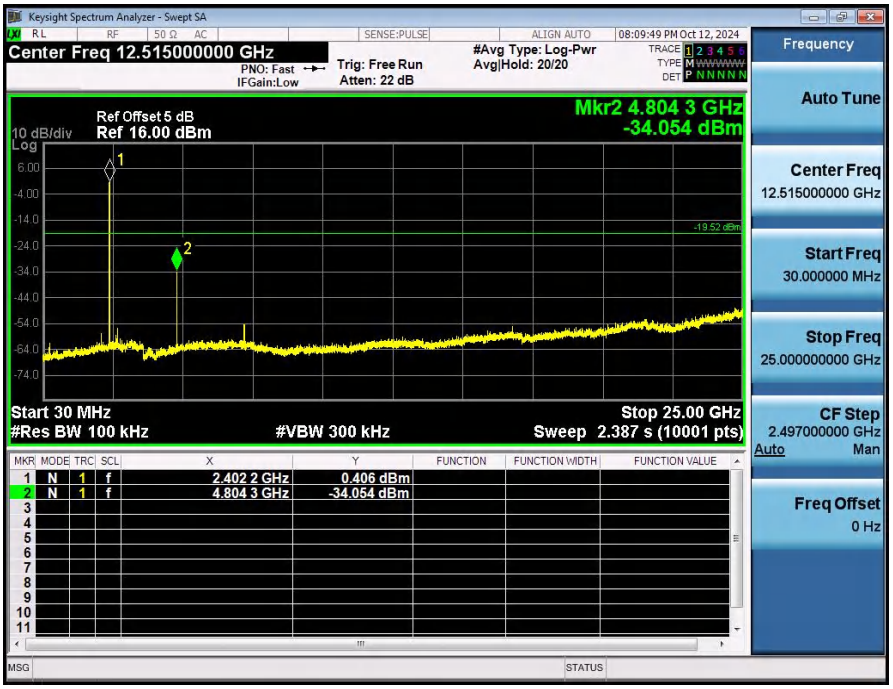
2_Spurious_Emissions_NVNT_ANT1_2-DH5_2480_00



1_Reference_Level_NVNT_ANT1_3-DH5_2402_00

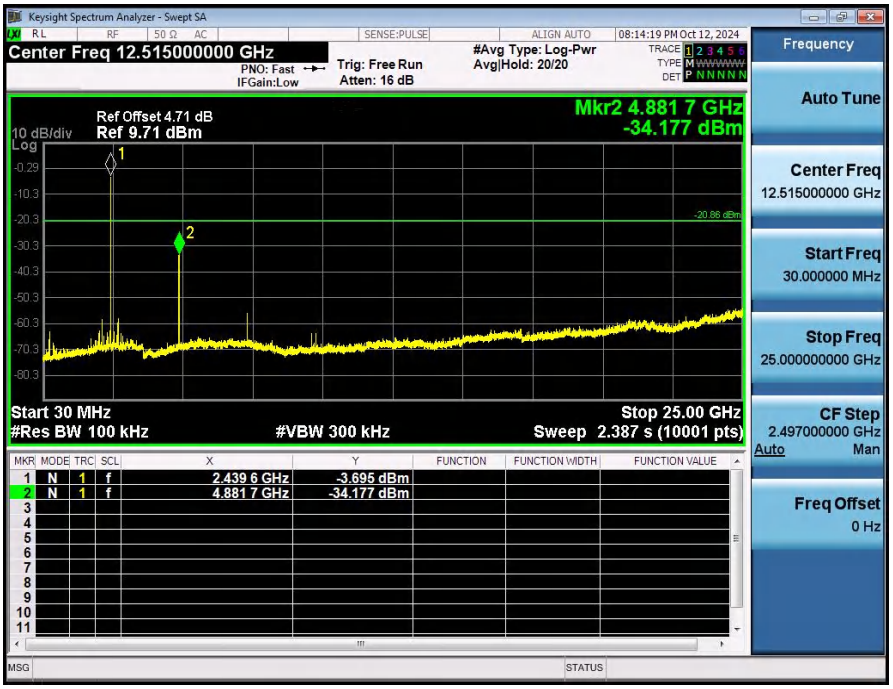


2_Spurious_Emissions_NVNT_ANT1_3-DH5_2402_00

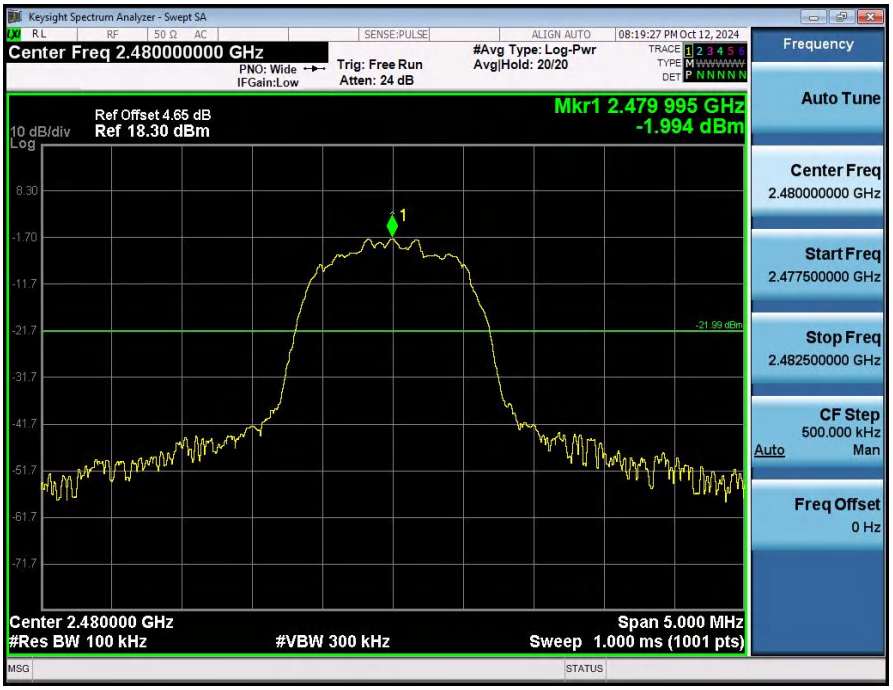


1_Reference_Level_NVNT_ANT1_3-DH5_2441_00

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