

Appendix Test Data

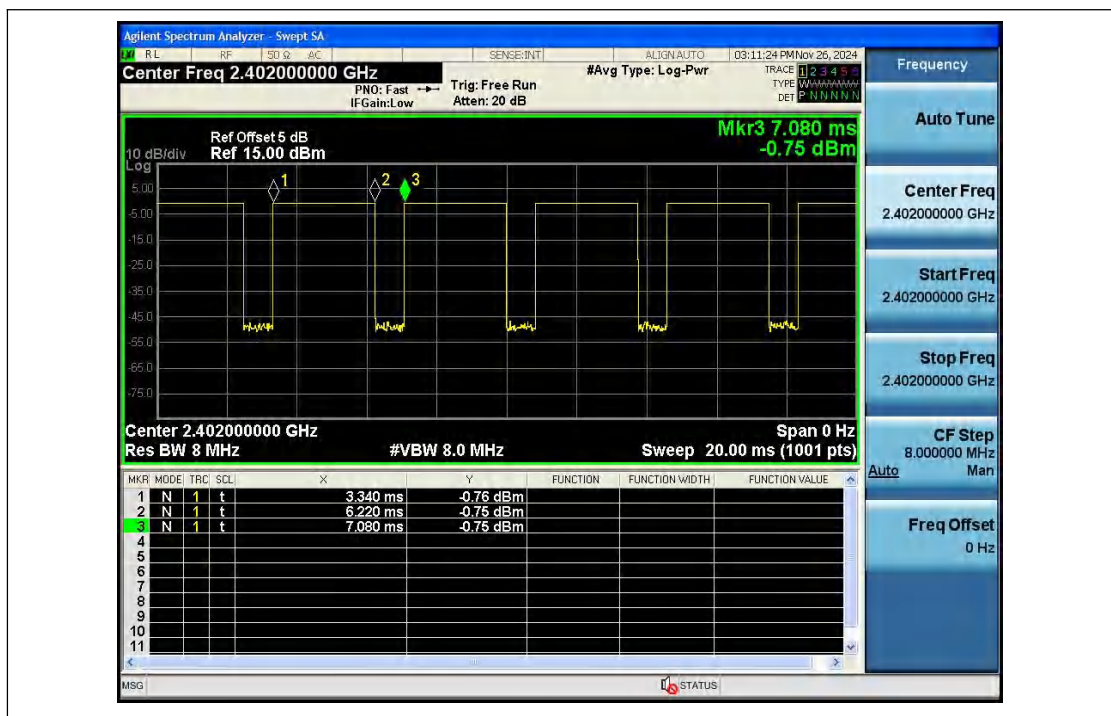
Report No.:	1812C40152612501	Test Sample No.:	1-2-2
Start Test Date:	2024.11.25	Finish Test Date:	2024.11.26
Test Engineer:	<i>Joker Wang</i>	Auditor:	<i>Justin Feng</i>
Temperature:	22.3°C	Relative Humidity:	57%
Pressure:	101kPa		

Appendix A: Duty Cycle

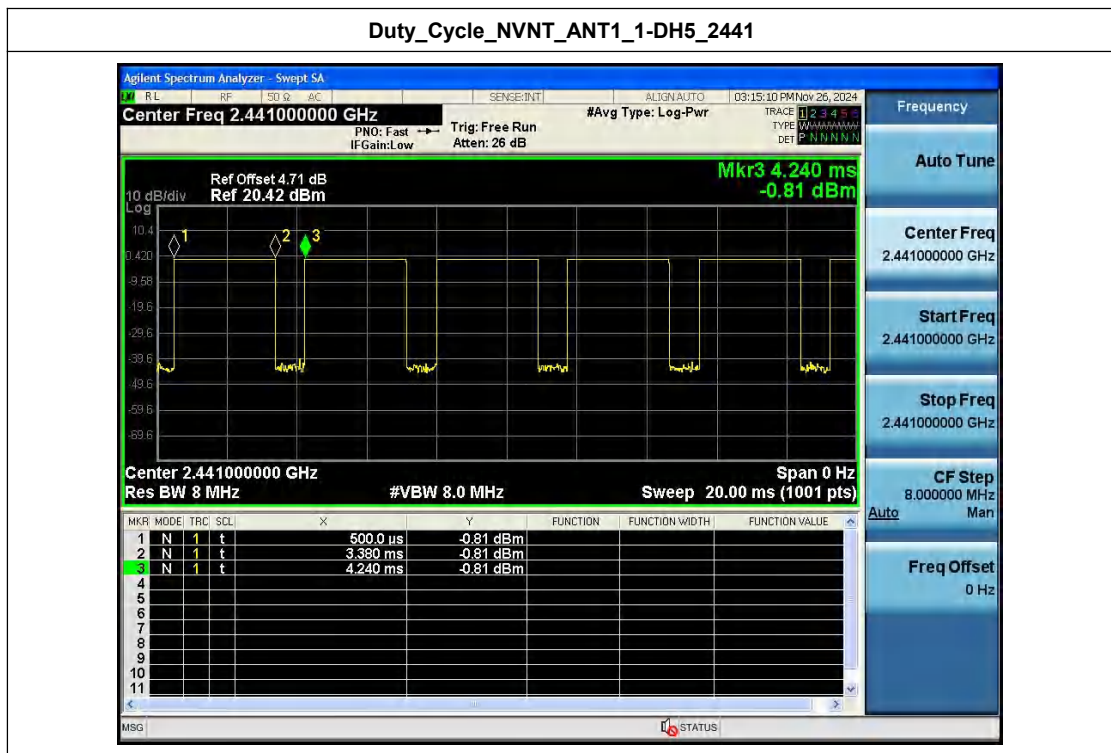
Condition	Antenna	Rate	Frequency (MHz)	Dutycycle(%)	Duty_factor
NVNT	ANT1	1-DH5	2402.00	77.54	1.10
NVNT	ANT1	1-DH5	2441.00	77.01	1.13
NVNT	ANT1	1-DH5	2480.00	77.13	1.13
NVNT	ANT1	2-DH5	2402.00	77.01	1.13
NVNT	ANT1	2-DH5	2441.00	77.66	1.10
NVNT	ANT1	2-DH5	2480.00	77.54	1.10
NVNT	ANT1	3-DH5	2402.00	77.54	1.10
NVNT	ANT1	3-DH5	2441.00	78.07	1.07
NVNT	ANT1	3-DH5	2480.00	77.54	1.10

Duty_Cycle_NVNT_ANT1_1-DH5_2402



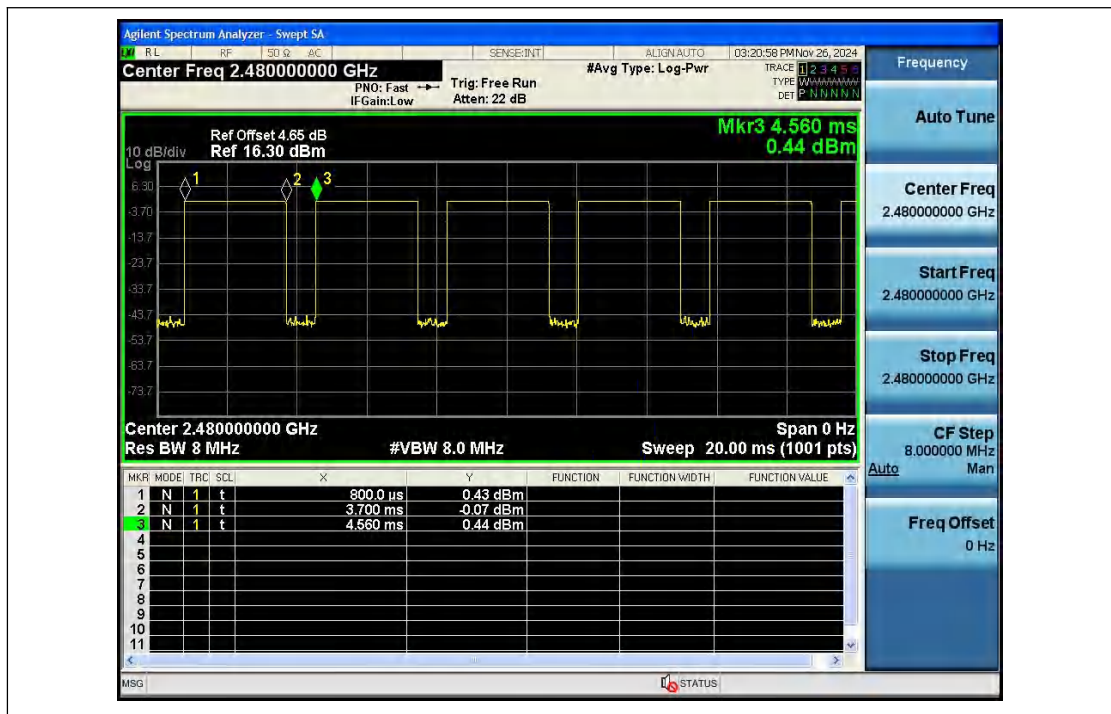


Duty_Cycle_NVNT_ANT1_1-DH5_2441

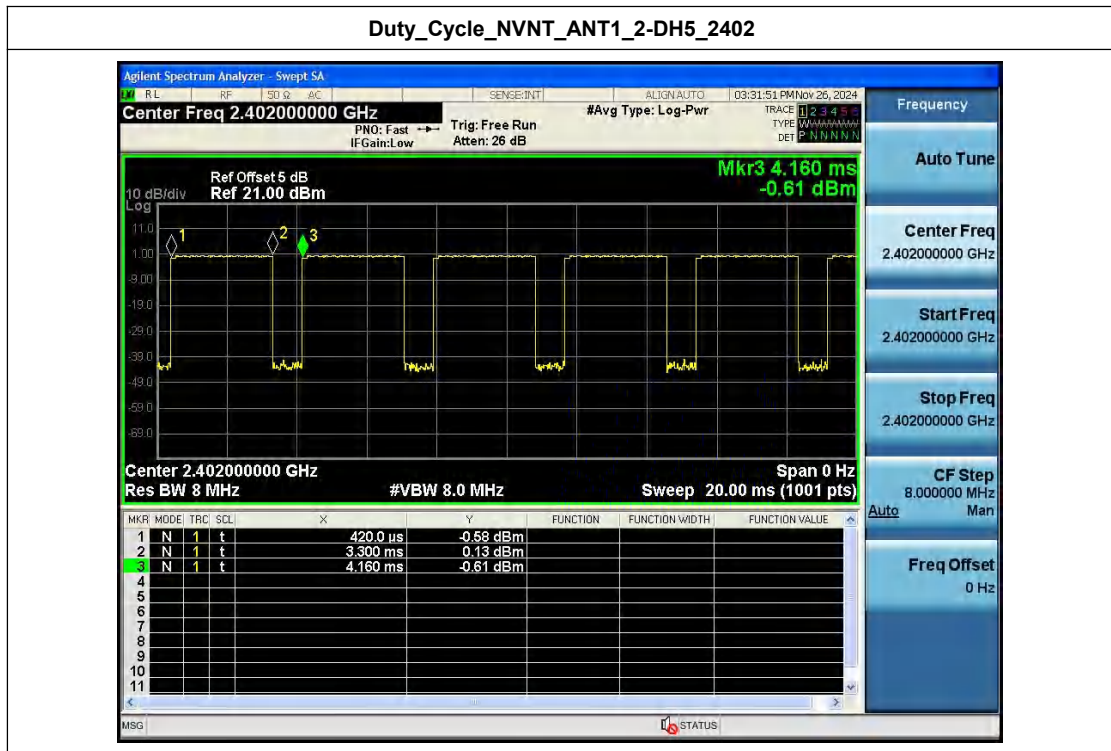


Duty_Cycle_NVNT_ANT1_1-DH5_2480



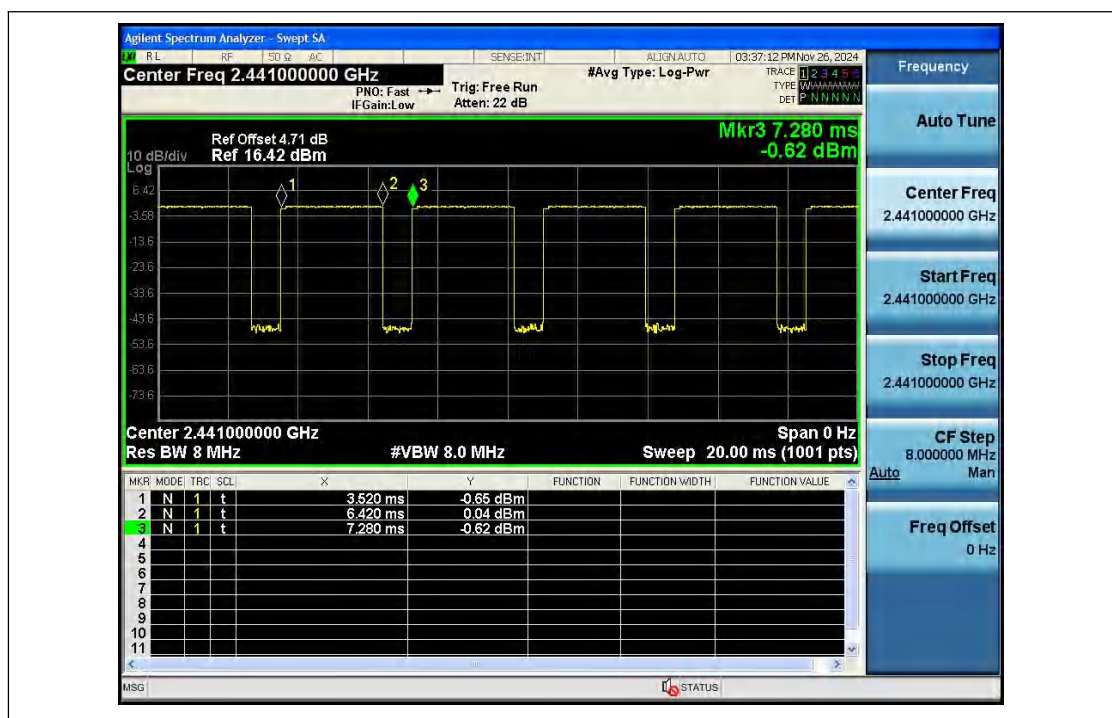


Duty_Cycle_NVNT_ANT1_2-DH5_2402

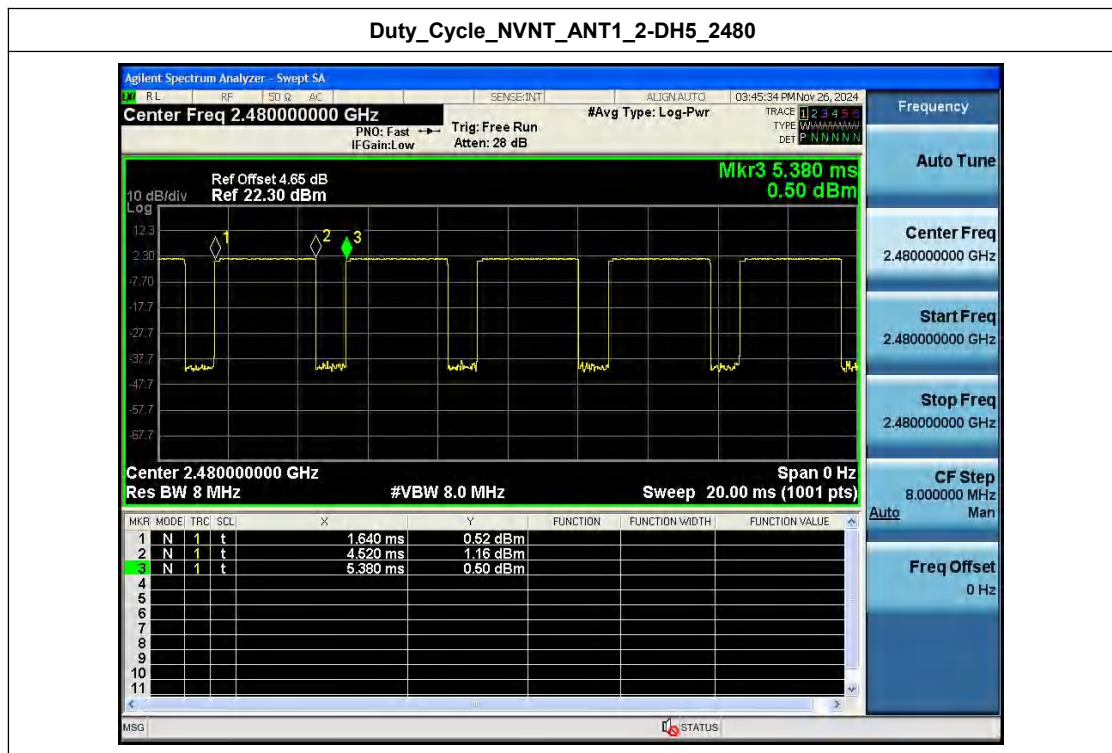


Duty_Cycle_NVNT_ANT1_2-DH5_2441



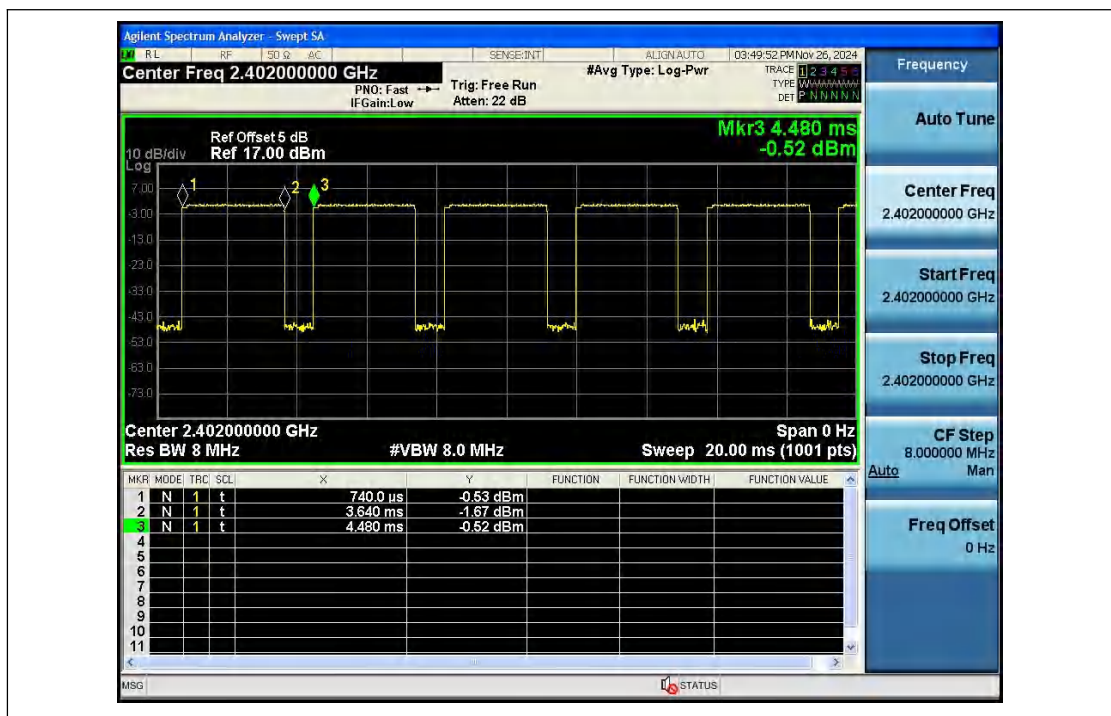


Duty_Cycle_NVNT_ANT1_2-DH5_2480

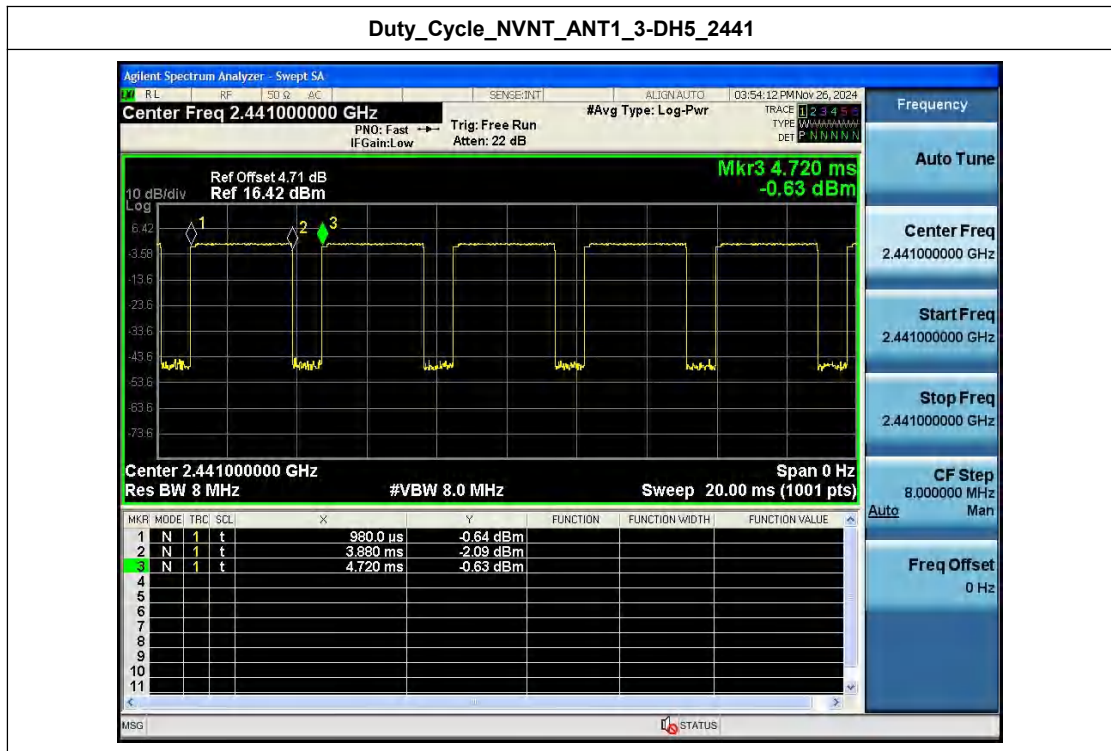


Duty_Cycle_NVNT_ANT1_3-DH5_2402



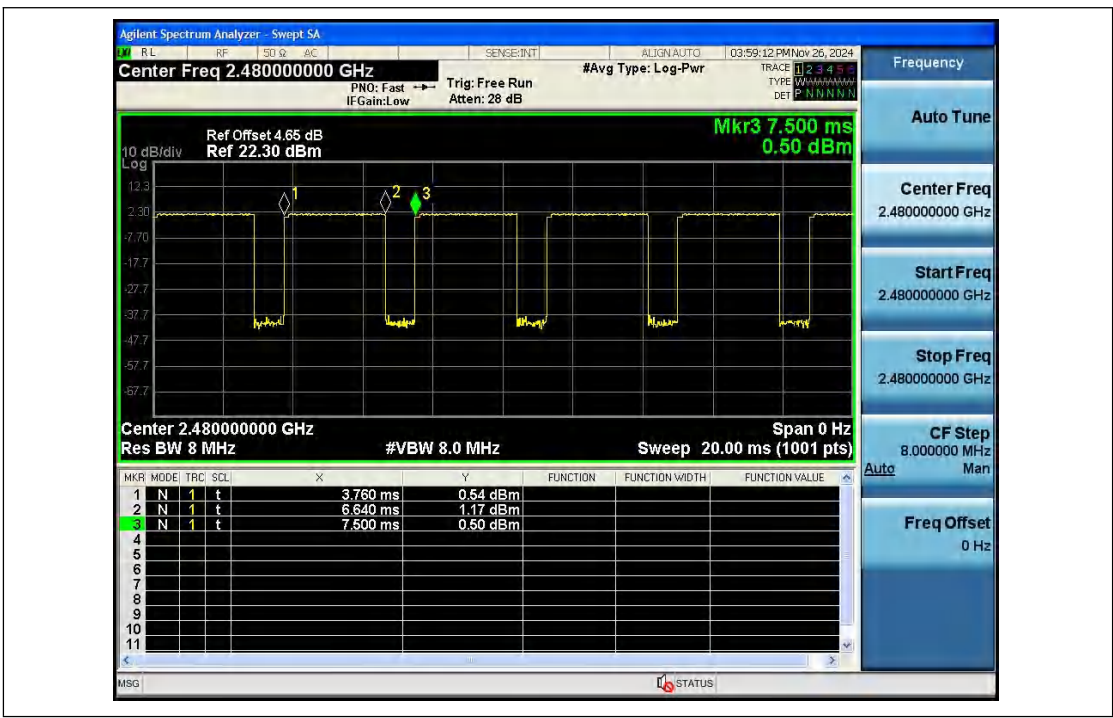


Duty_Cycle_NVNT_ANT1_3-DH5_2441



Duty_Cycle_NVNT_ANT1_3-DH5_2480





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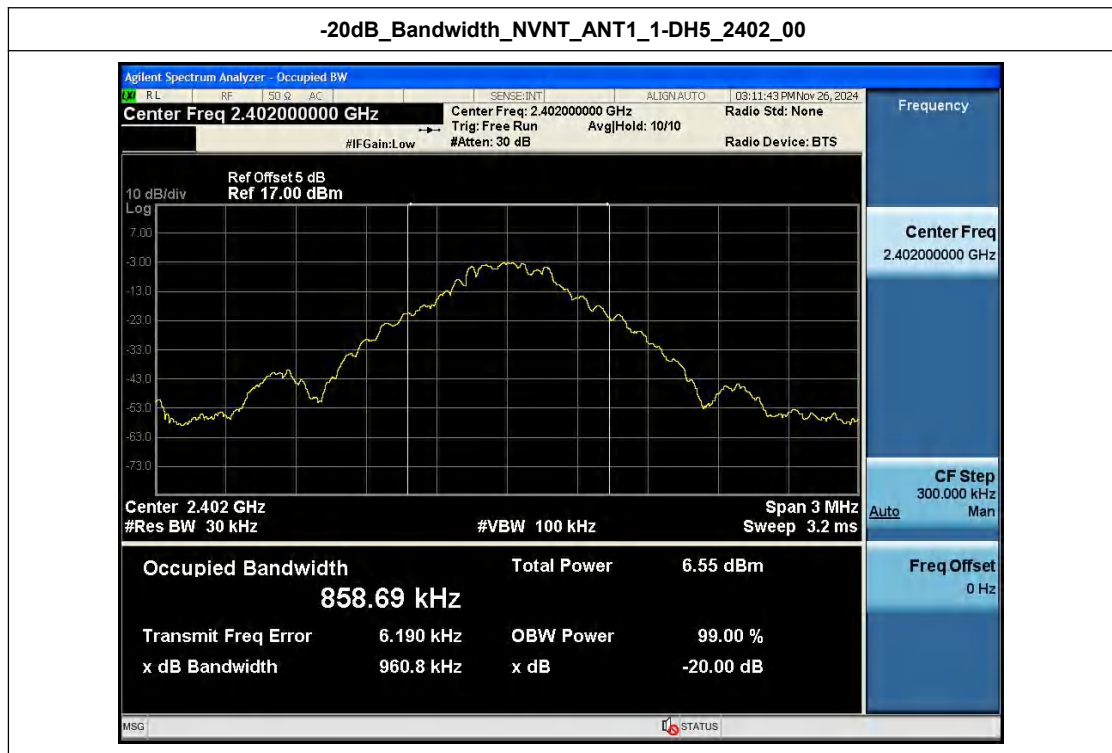
Address: Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China
Tel:(86)0755-26066440 Email:service@anbotek.com

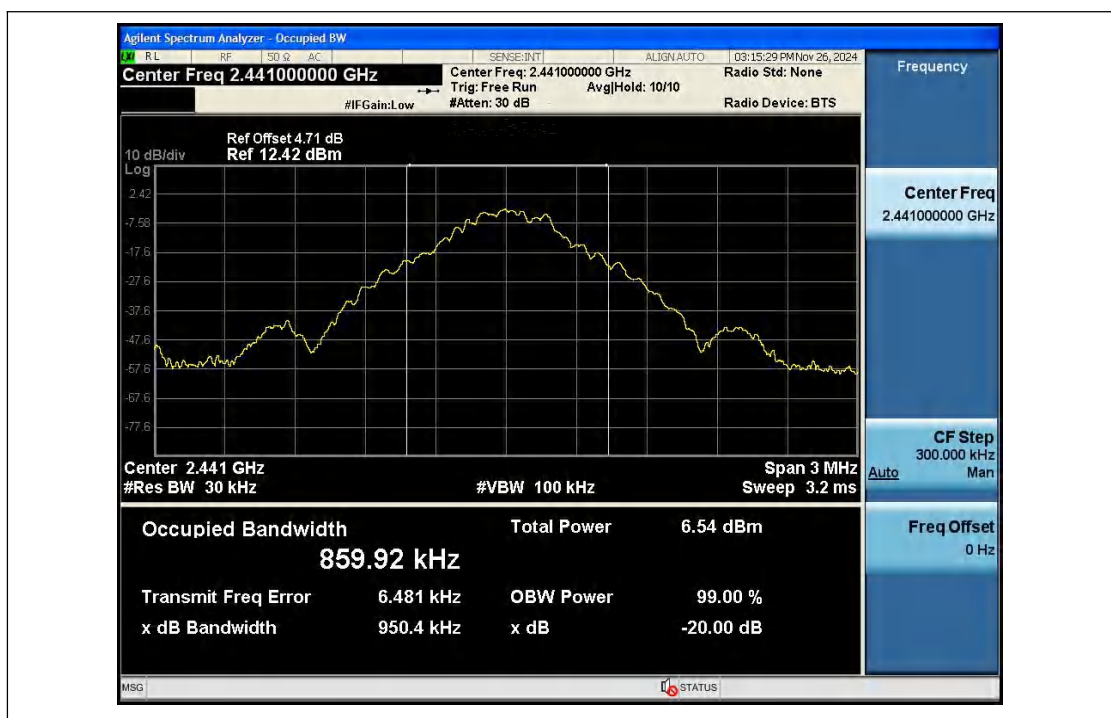
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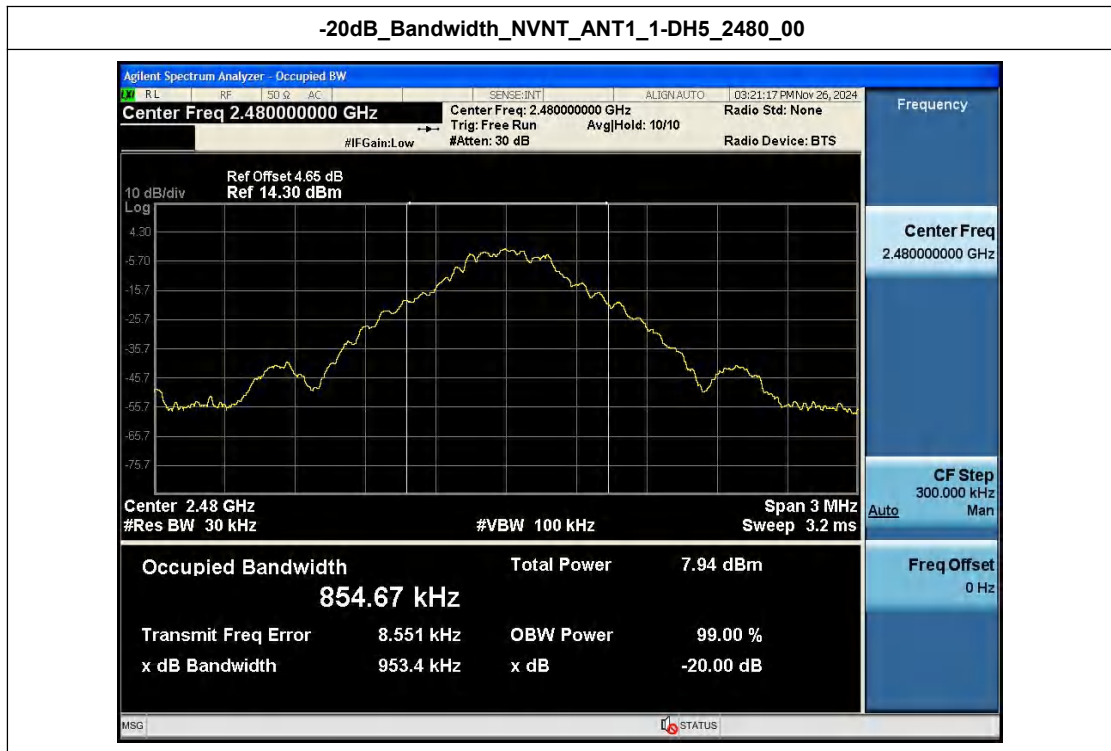
Appendix B: -20dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-20dB BW(MHz)	if larger than CFS
NVNT	ANT1	1-DH5	2402.00	0.961	No
NVNT	ANT1	1-DH5	2441.00	0.950	No
NVNT	ANT1	1-DH5	2480.00	0.953	No
NVNT	ANT1	2-DH5	2402.00	1.281	Yes
NVNT	ANT1	2-DH5	2441.00	1.303	Yes
NVNT	ANT1	2-DH5	2480.00	1.278	Yes
NVNT	ANT1	3-DH5	2402.00	1.298	Yes
NVNT	ANT1	3-DH5	2441.00	1.297	Yes
NVNT	ANT1	3-DH5	2480.00	1.299	Yes



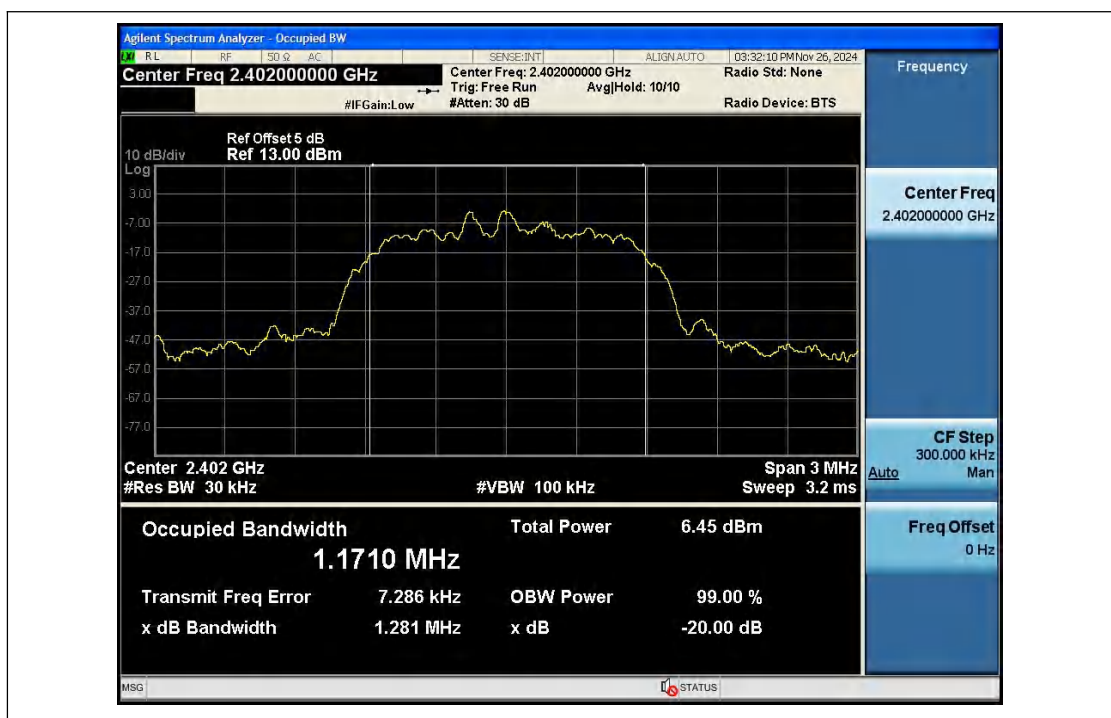


-20dB_Bandwidth_NVNT_ANT1_1-DH5_2480_00

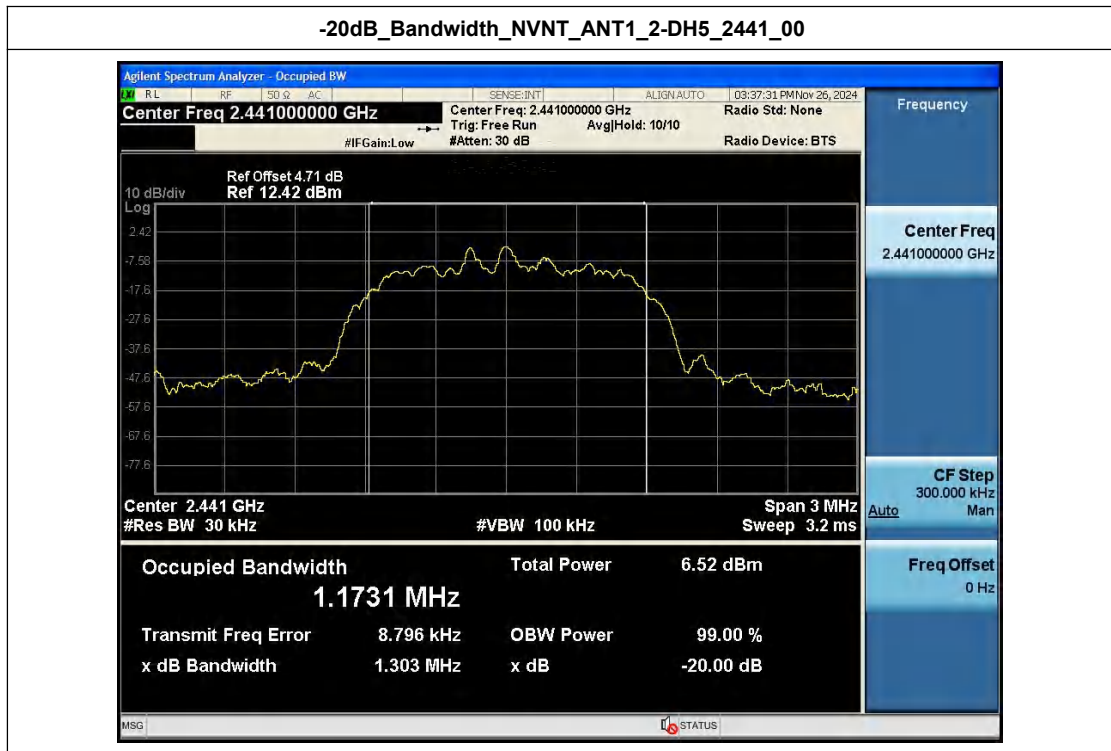


-20dB_Bandwidth_NVNT_ANT1_2-DH5_2402_00



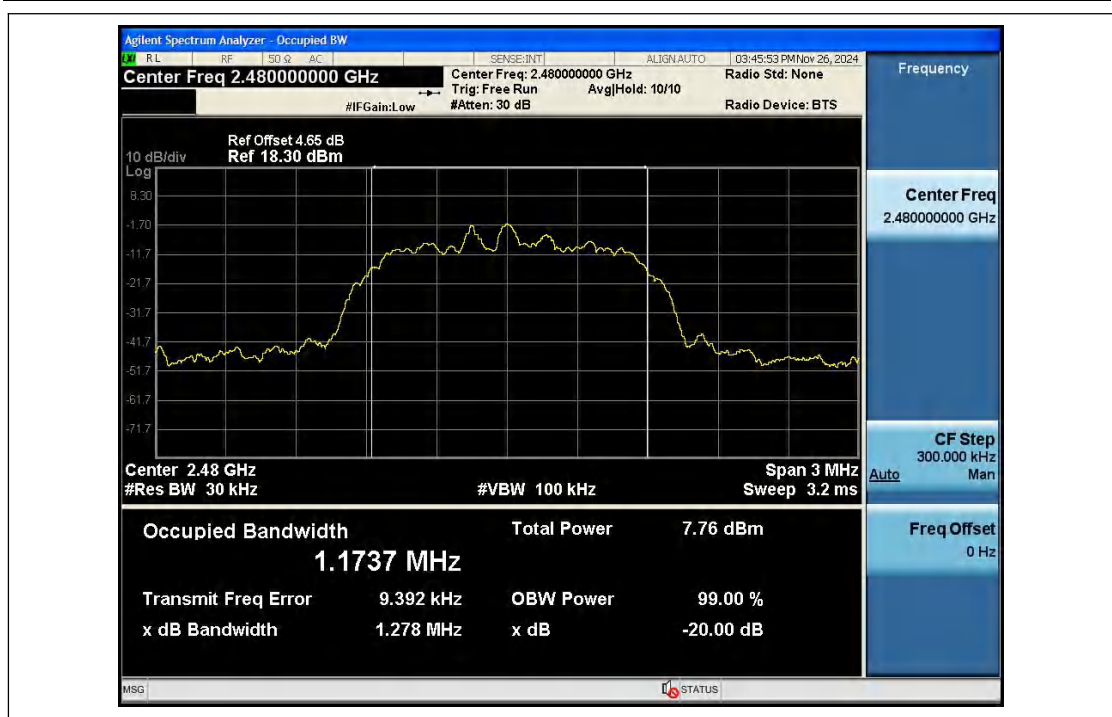


-20dB_Bandwidth_NVNT_ANT1_2-DH5_2441_00

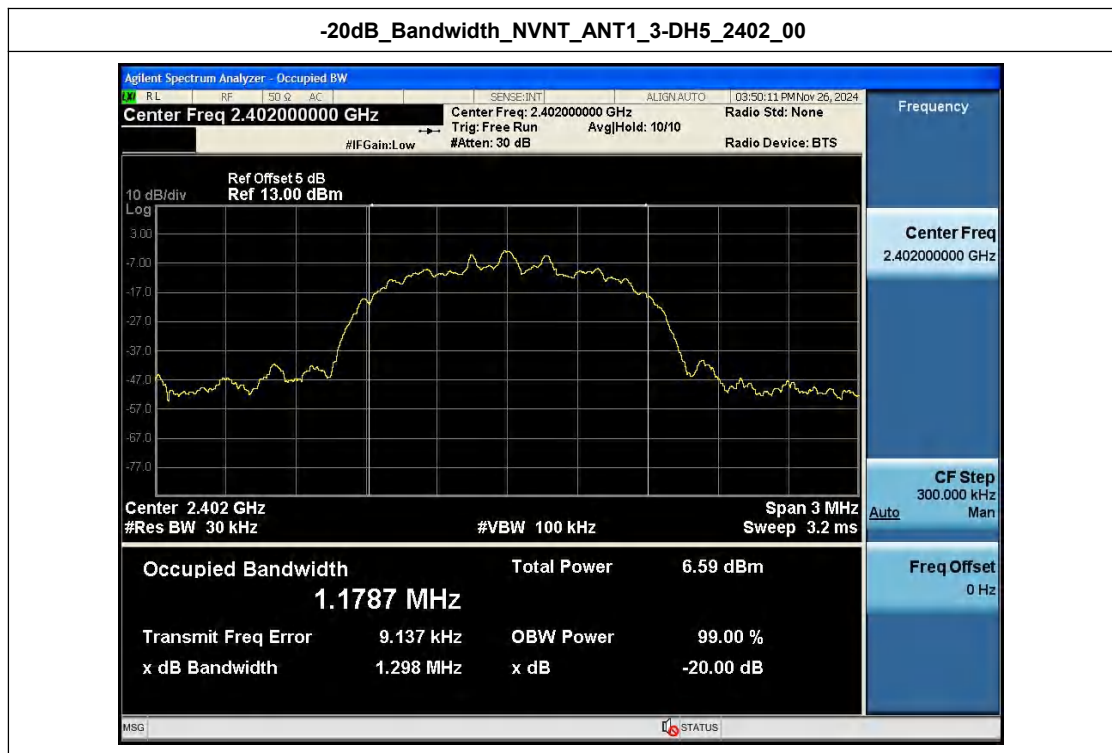


-20dB_Bandwidth_NVNT_ANT1_2-DH5_2480_00



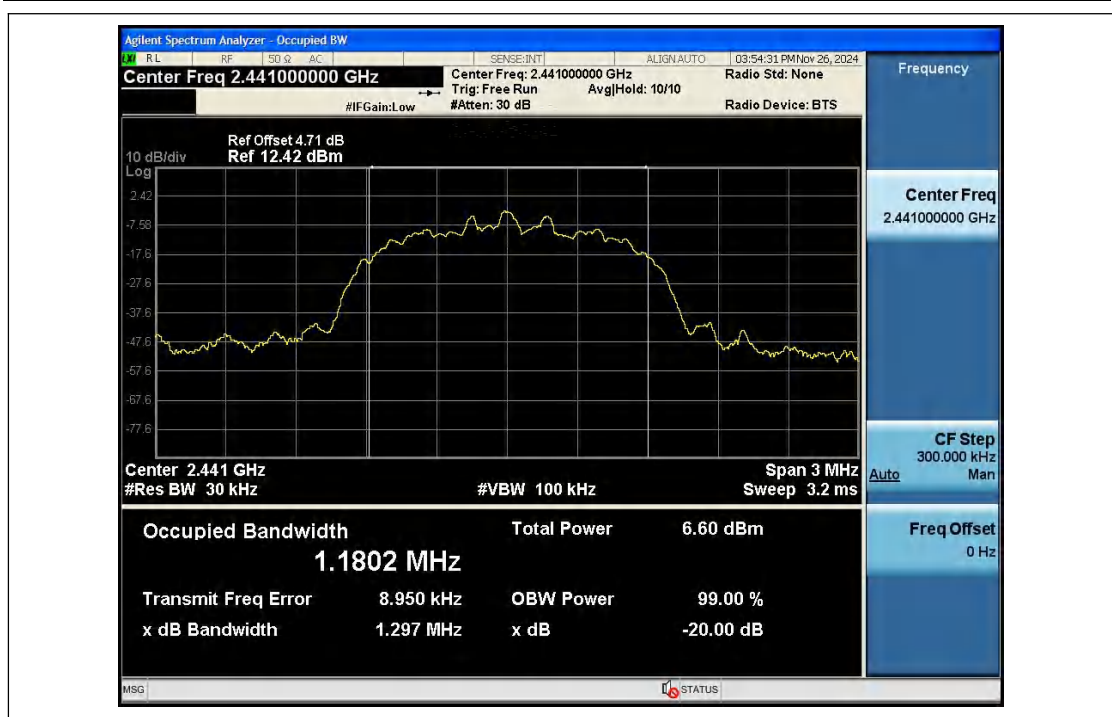


-20dB_Bandwidth_NVNT_ANT1_3-DH5_2402_00

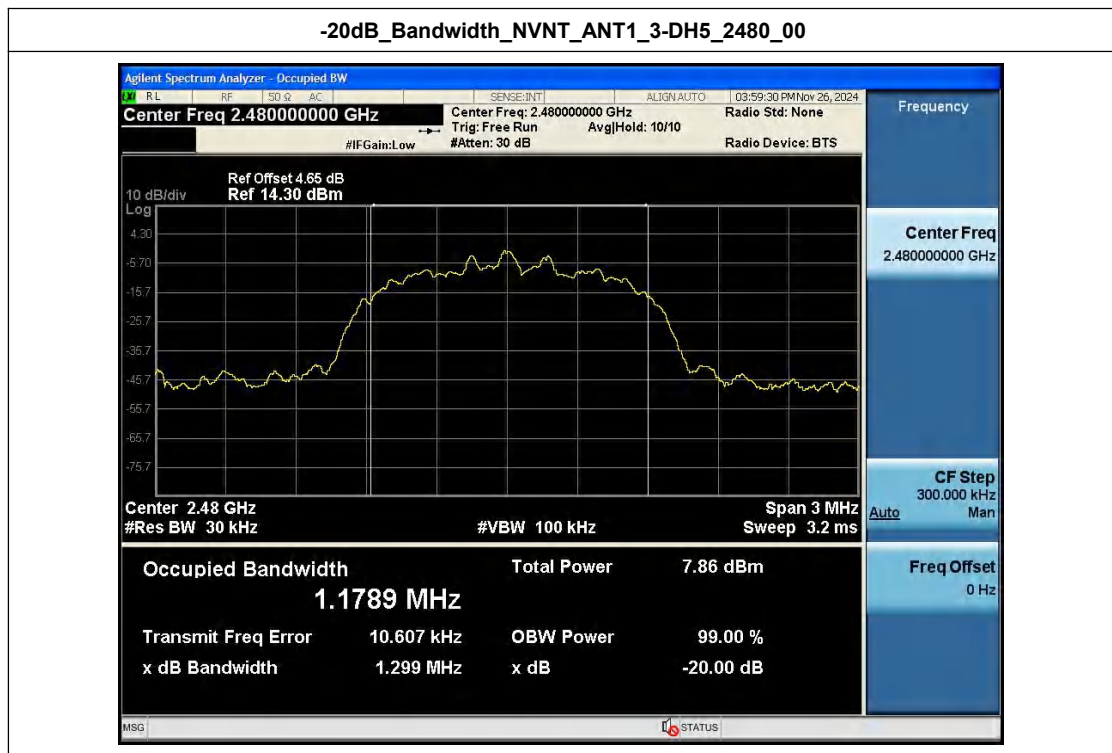


-20dB_Bandwidth_NVNT_ANT1_3-DH5_2441_00





-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	0.853
NVNT	ANT1	1-DH5	2441.00	0.854
NVNT	ANT1	1-DH5	2480.00	0.859
NVNT	ANT1	2-DH5	2402.00	1.171
NVNT	ANT1	2-DH5	2441.00	1.172
NVNT	ANT1	2-DH5	2480.00	1.178
NVNT	ANT1	3-DH5	2402.00	1.179
NVNT	ANT1	3-DH5	2441.00	1.179
NVNT	ANT1	3-DH5	2480.00	1.186

99%_Occupied_Bandwidth_NVNT_ANT1_1-DH5_2402_00

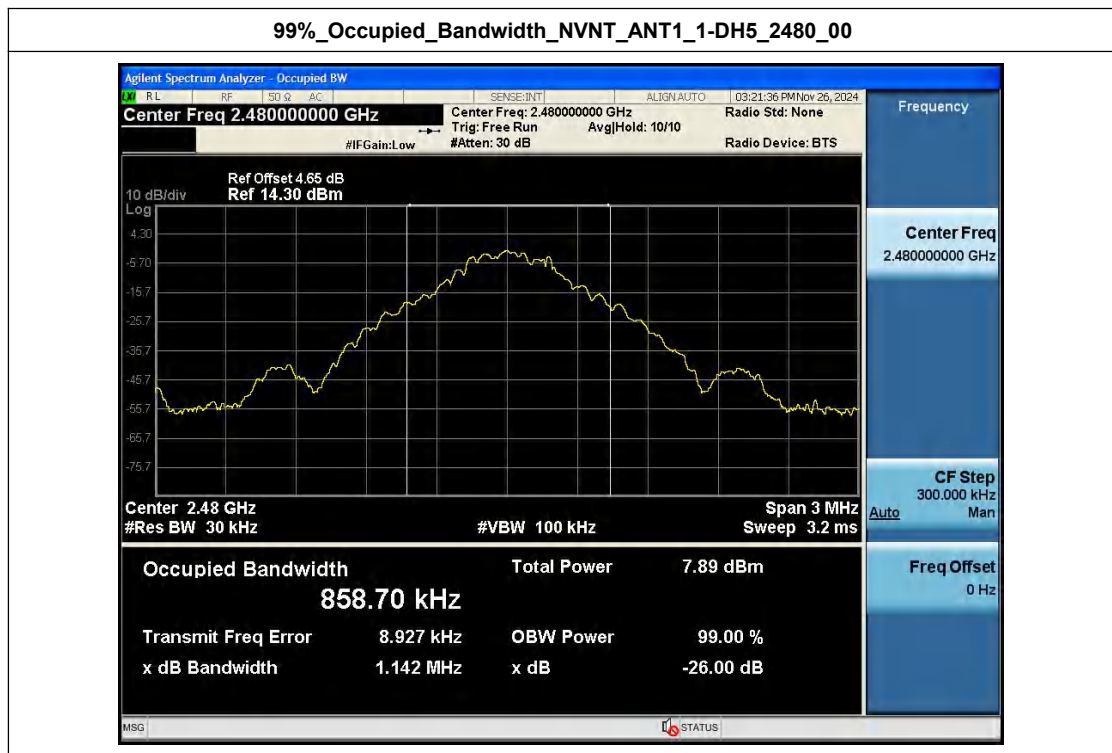


99%_Occupied_Bandwidth_NVNT_ANT1_1-DH5_2441_00



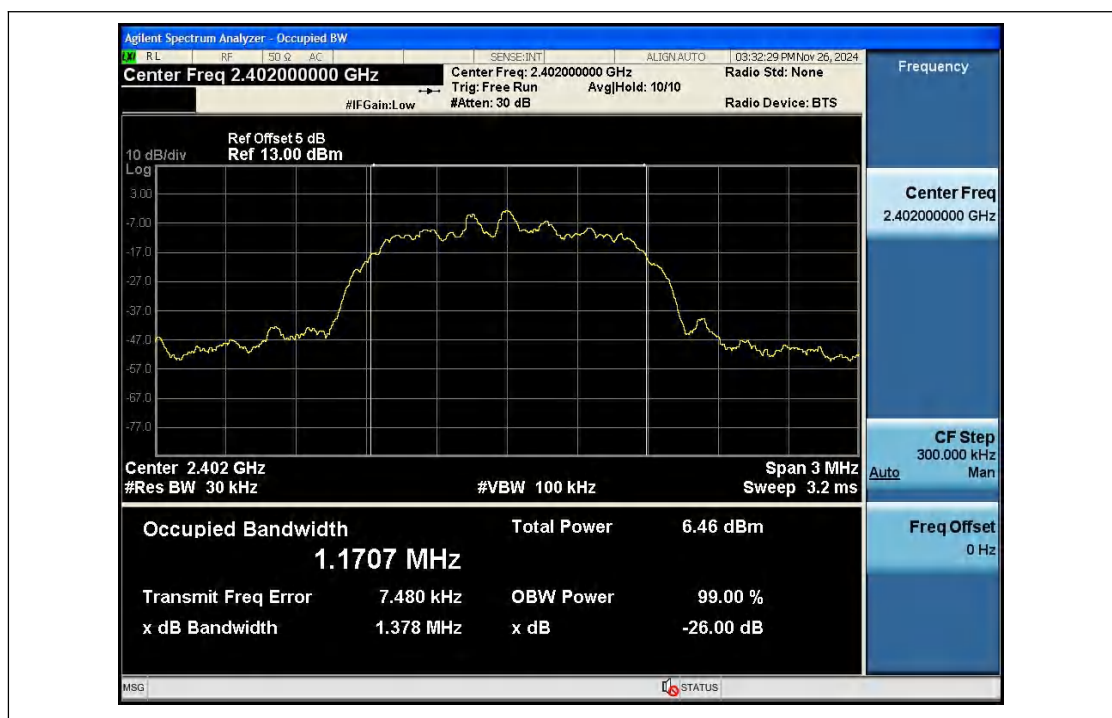


99%_Occupied_Bandwidth_NVNT_ANT1_1-DH5_2480_00

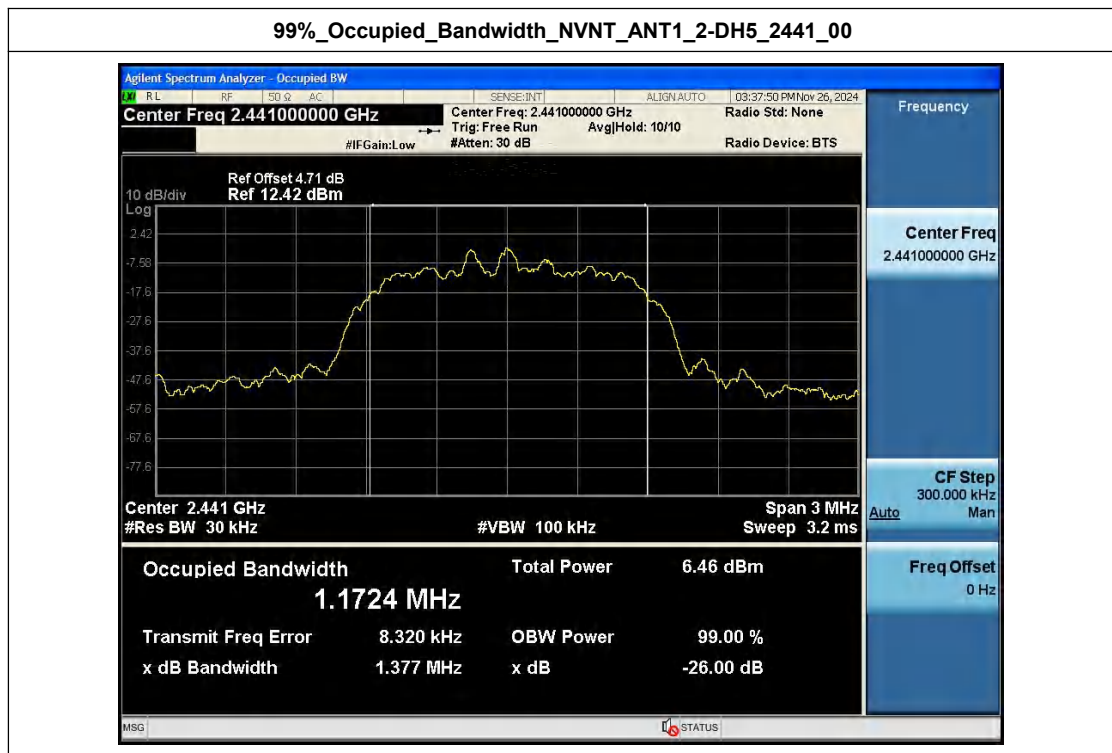


99%_Occupied_Bandwidth_NVNT_ANT1_2-DH5_2402_00



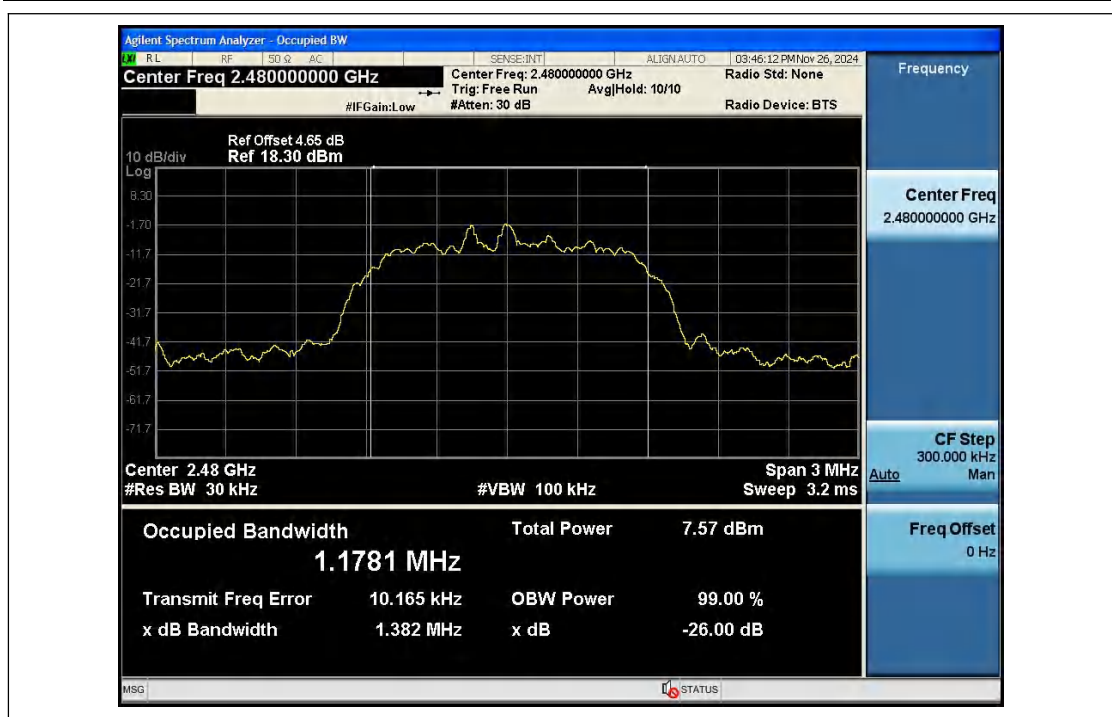


99%_Occupied_Bandwidth_NVNT_ANT1_2-DH5_2441_00

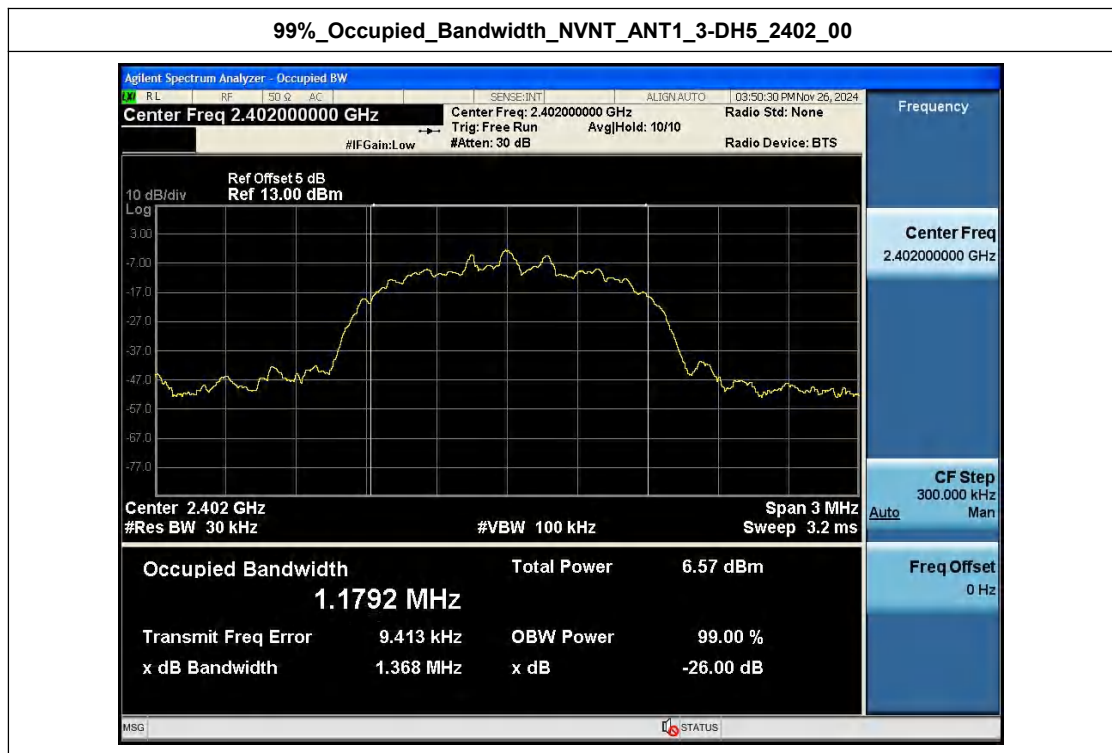


99%_Occupied_Bandwidth_NVNT_ANT1_2-DH5_2480_00



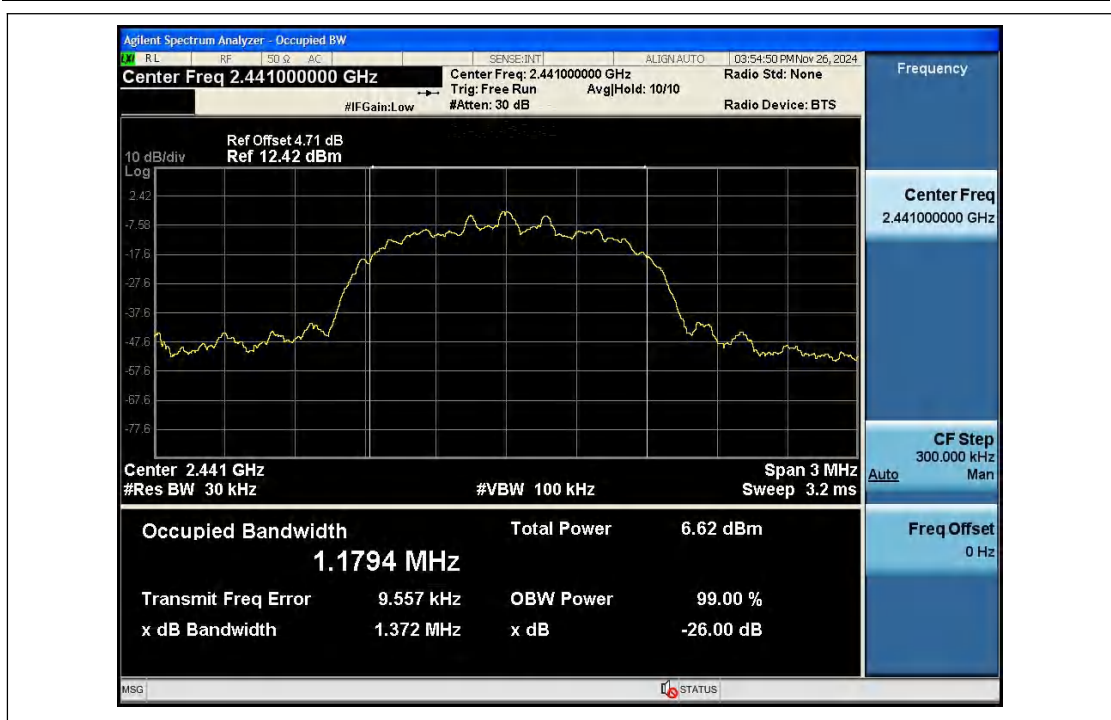


99%_Occupied_Bandwidth_NVNT_ANT1_3-DH5_2402_00

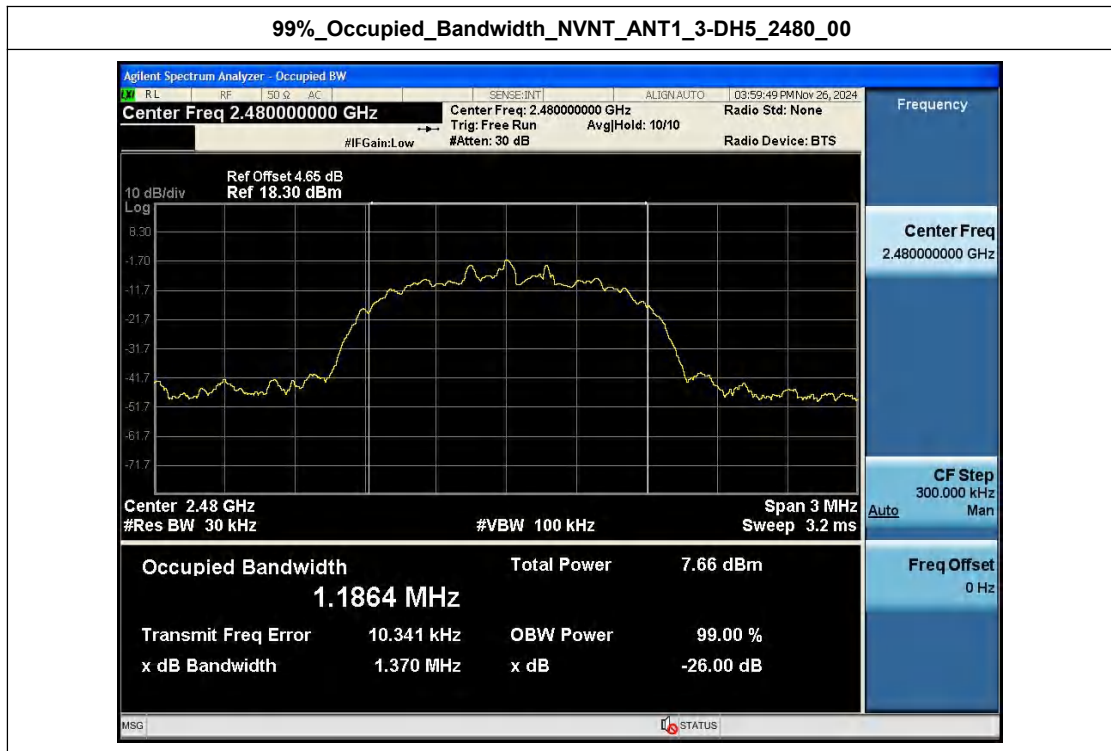


99%_Occupied_Bandwidth_NVNT_ANT1_3-DH5_2441_00





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	-0.80	0.83	125	Pass
NVNT	ANT1	1-DH5	2441.00	-0.81	0.83	125	Pass
NVNT	ANT1	1-DH5	2480.00	0.39	1.09	125	Pass
NVNT	ANT1	2-DH5	2402.00	0.34	1.08	125	Pass
NVNT	ANT1	2-DH5	2441.00	0.29	1.07	125	Pass
NVNT	ANT1	2-DH5	2480.00	1.44	1.39	125	Pass
NVNT	ANT1	3-DH5	2402.00	0.84	1.21	125	Pass
NVNT	ANT1	3-DH5	2441.00	0.70	1.18	125	Pass
NVNT	ANT1	3-DH5	2480.00	1.82	1.52	125	Pass

Peak_Output_Power_NVNT_ANT1_1-DH5_2402_00

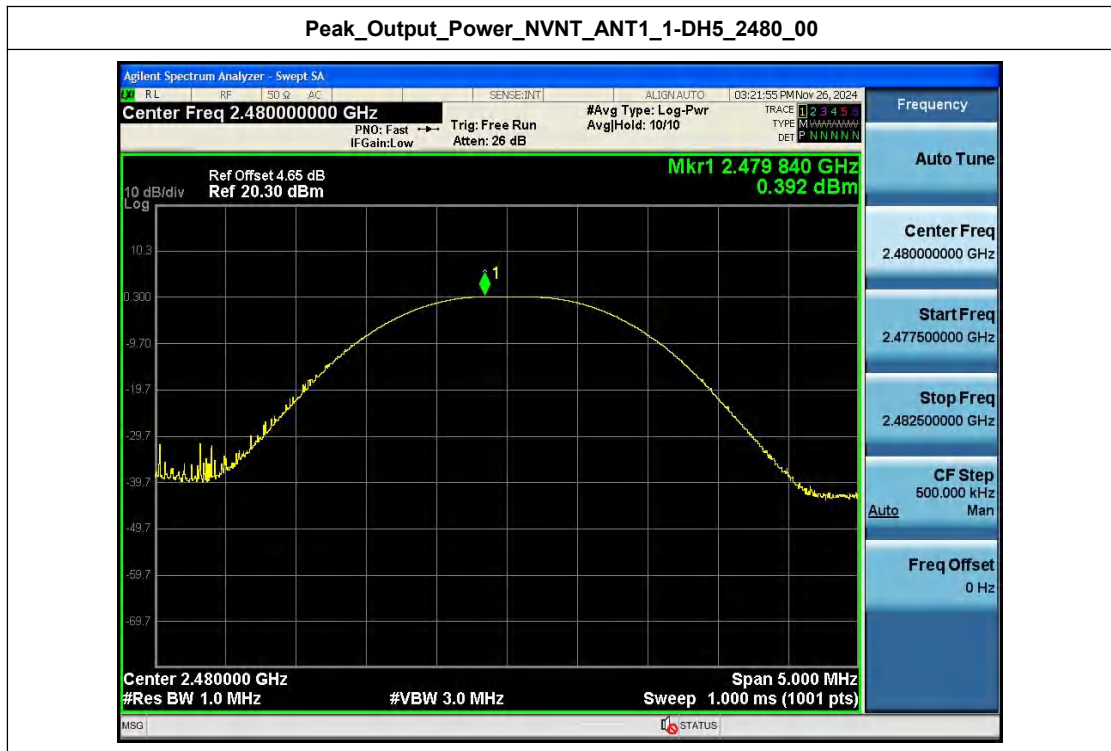


Peak_Output_Power_NVNT_ANT1_1-DH5_2441_00





Peak_Output_Power_NVNT_ANT1_1-DH5_2480_00

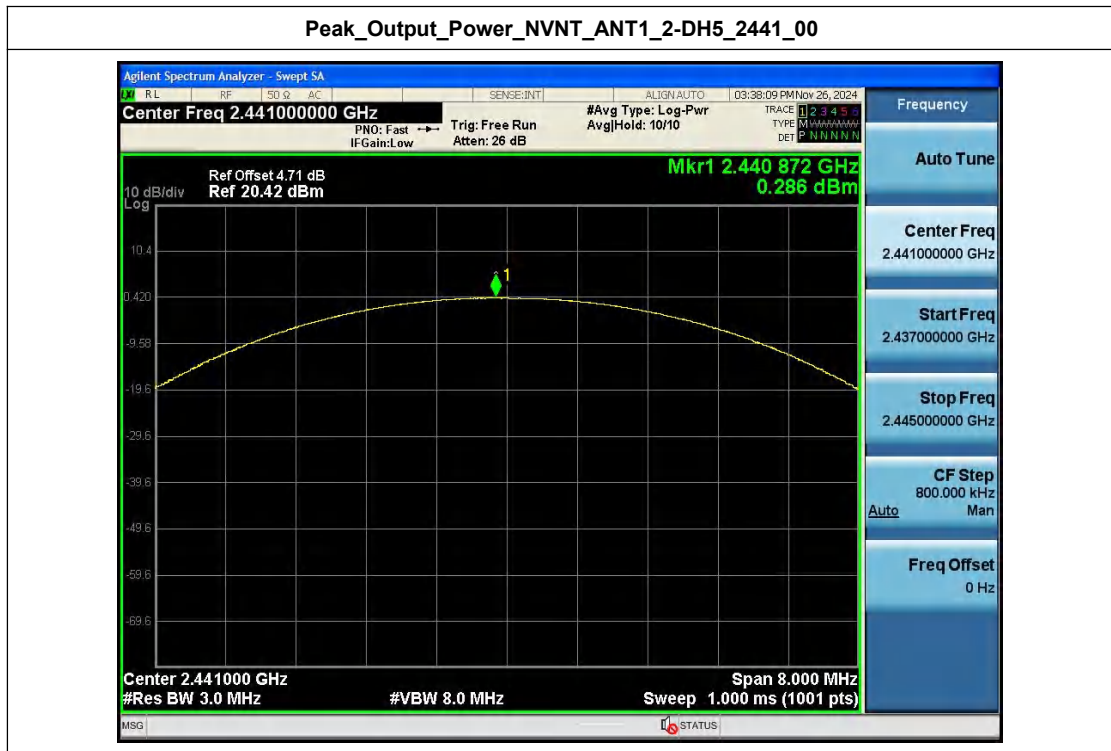


Peak_Output_Power_NVNT_ANT1_2-DH5_2402_00





Peak_Output_Power_NVNT_ANT1_2-DH5_2441_00

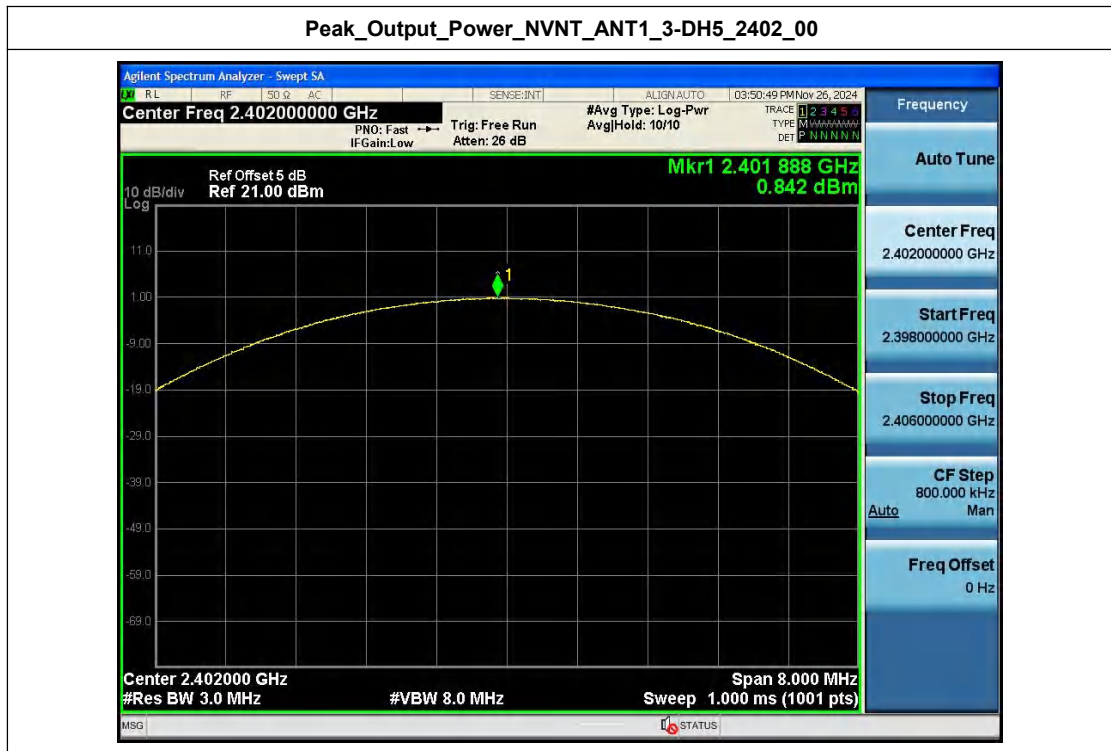


Peak_Output_Power_NVNT_ANT1_2-DH5_2480_00





Peak_Output_Power_NVNT_ANT1_3-DH5_2402_00

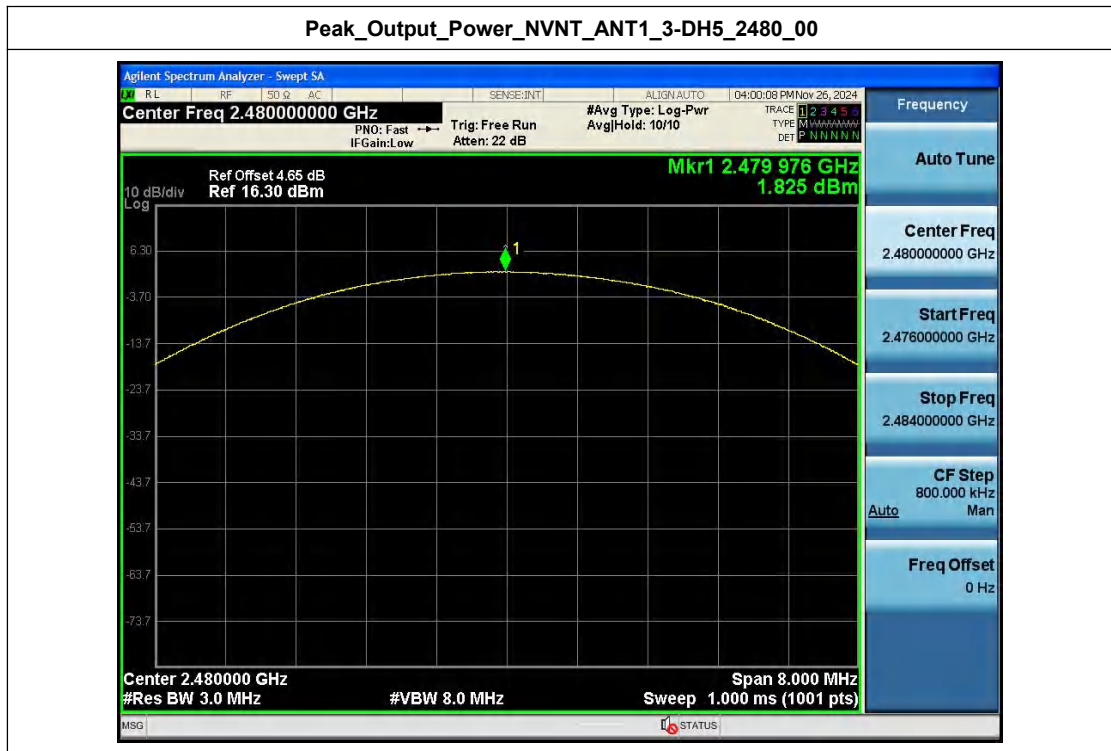


Peak_Output_Power_NVNT_ANT1_3-DH5_2441_00





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	-45.310	-20.862	Pass
NVNT	ANT1	1-DH5	2441.00	-45.822	-20.951	Pass
NVNT	ANT1	1-DH5	2480.00	-46.327	-19.638	Pass
NVNT	ANT1	2-DH5	2402.00	-45.364	-20.686	Pass
NVNT	ANT1	2-DH5	2441.00	-45.794	-20.711	Pass
NVNT	ANT1	2-DH5	2480.00	-46.156	-19.543	Pass
NVNT	ANT1	3-DH5	2402.00	-45.558	-20.638	Pass
NVNT	ANT1	3-DH5	2441.00	-45.890	-20.778	Pass
NVNT	ANT1	3-DH5	2480.00	-46.098	-19.589	Pass

1_Reference_Level_NVNT_ANT1_1-DH5_2402_00

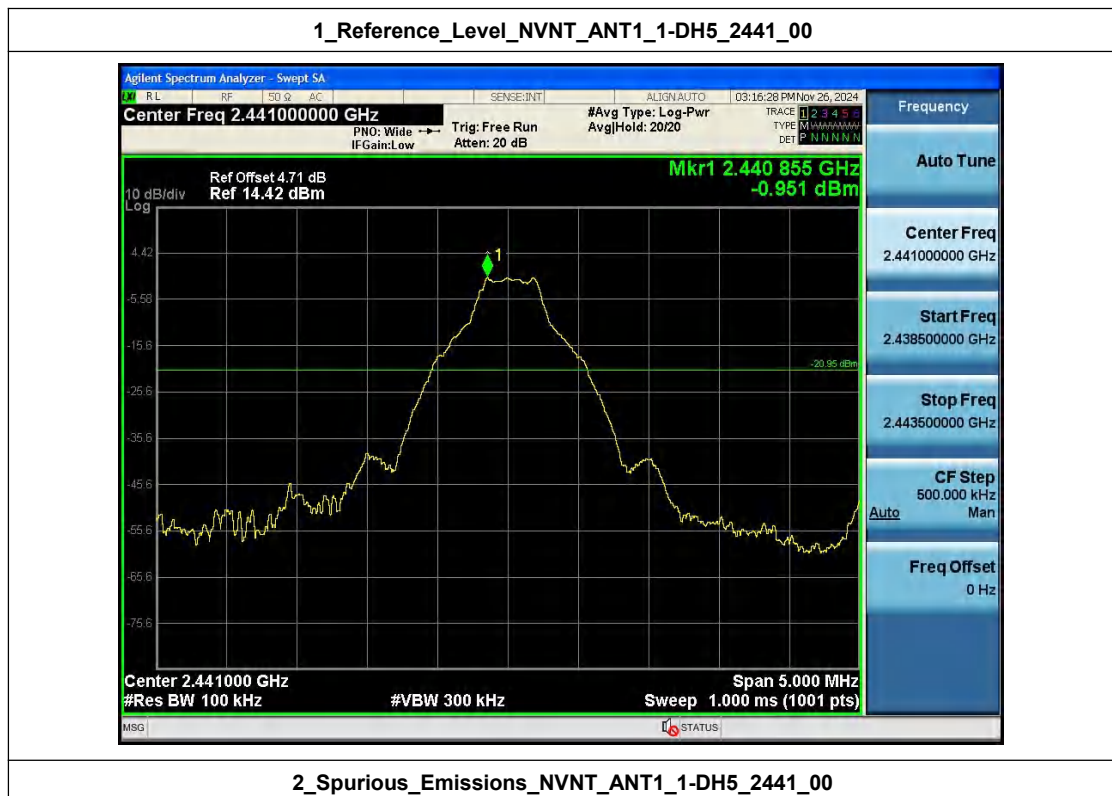


2_Spurious_Emissions_NVNT_ANT1_1-DH5_2402_00



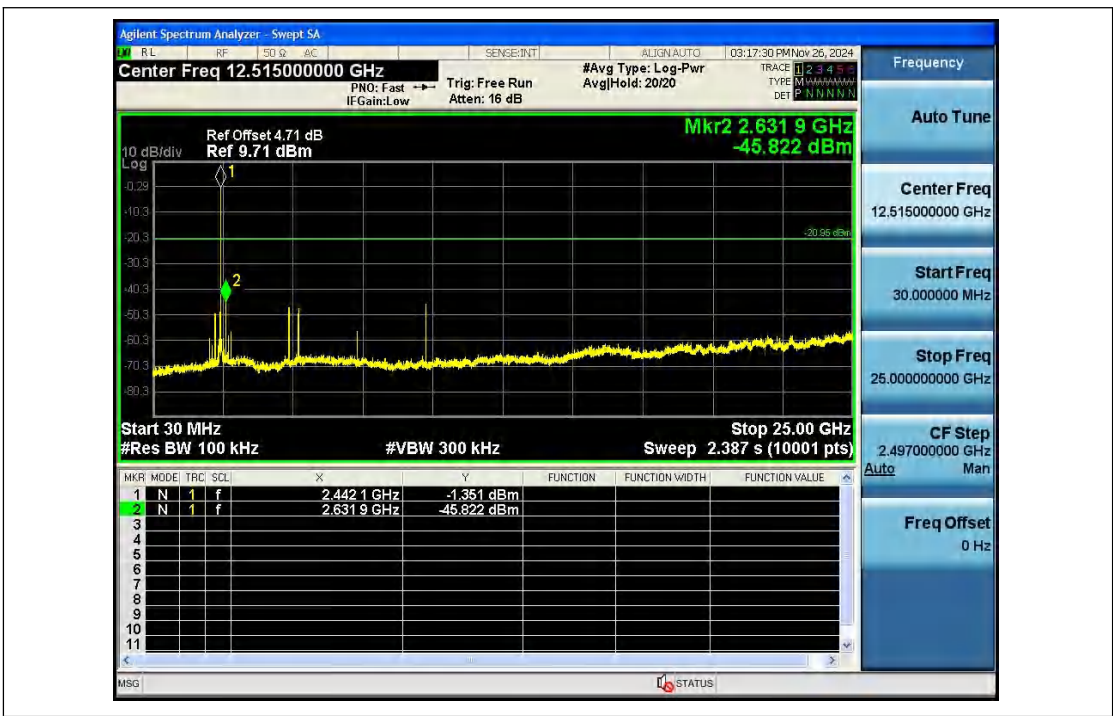


1_Reference_Level_NVNT_ANT1_1-DH5_2441_00

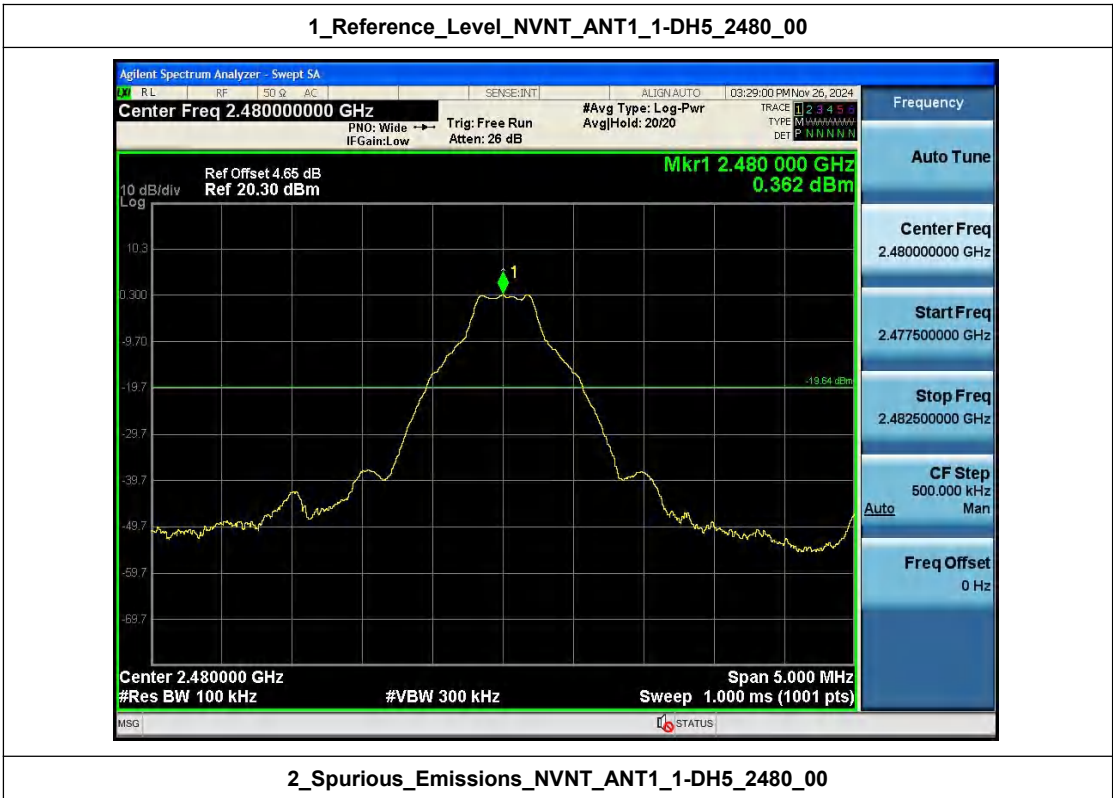


2_Spurious_Emissions_NVNT_ANT1_1-DH5_2441_00



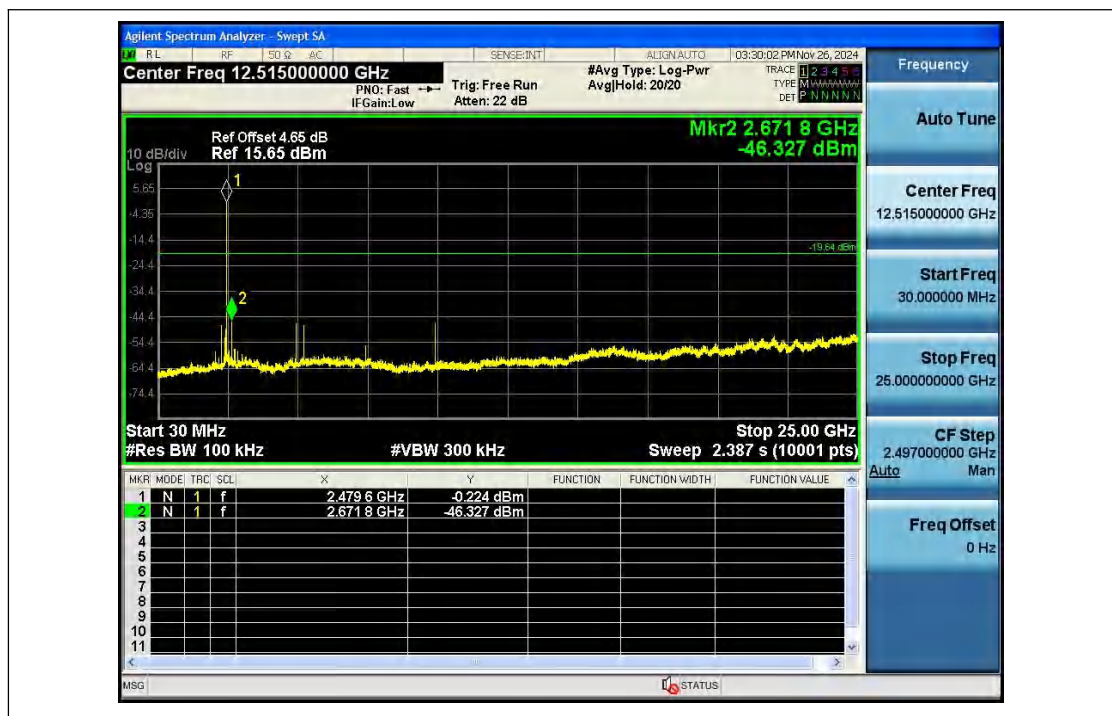


1_Reference_Level_NVNT_ANT1_1-DH5_2480_00

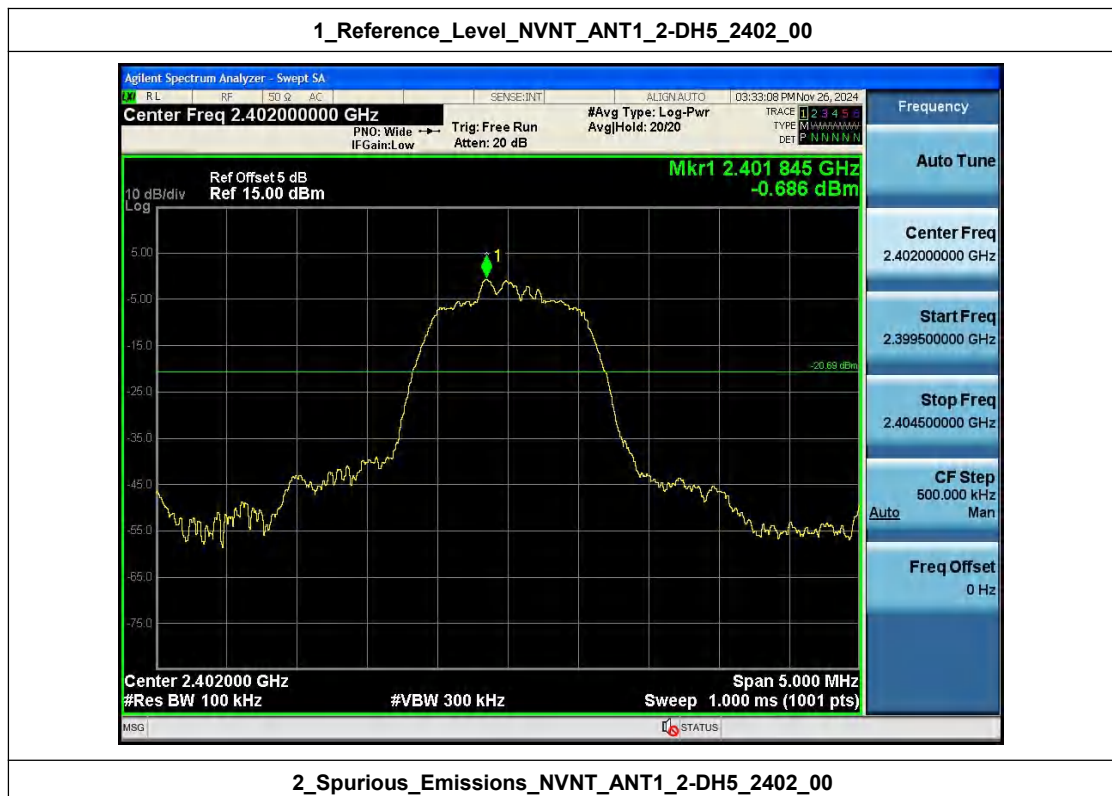


2_Spurious_Emissions_NVNT_ANT1_1-DH5_2480_00



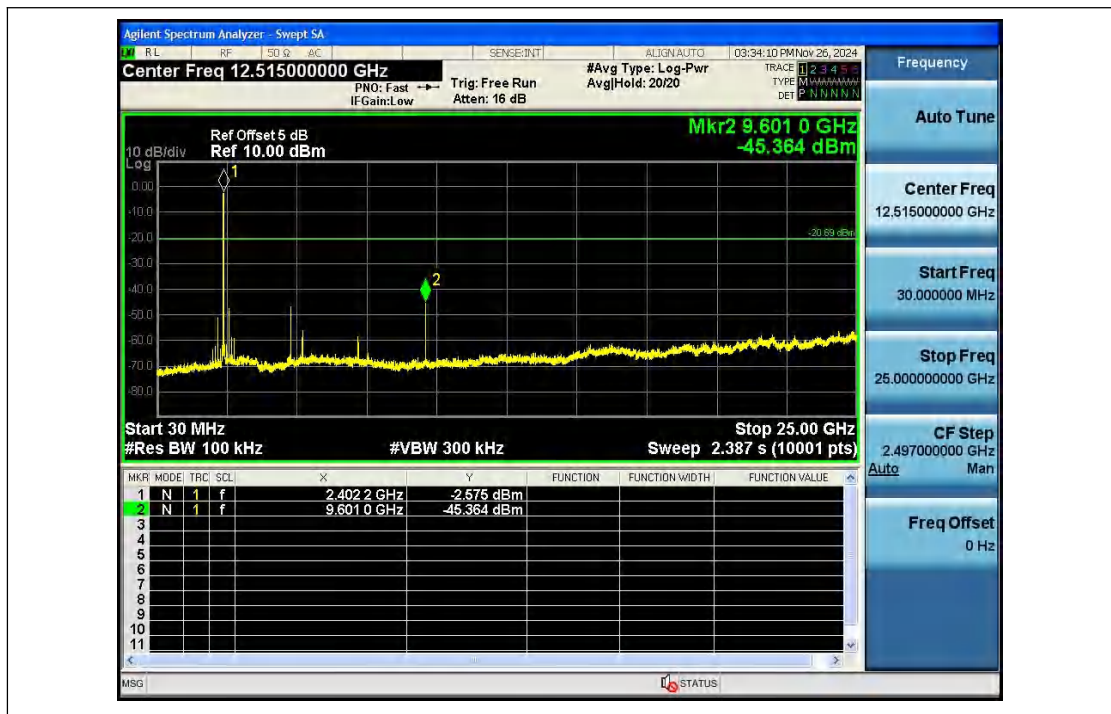


1_Reference_Level_NVNT_ANT1_2-DH5_2402_00

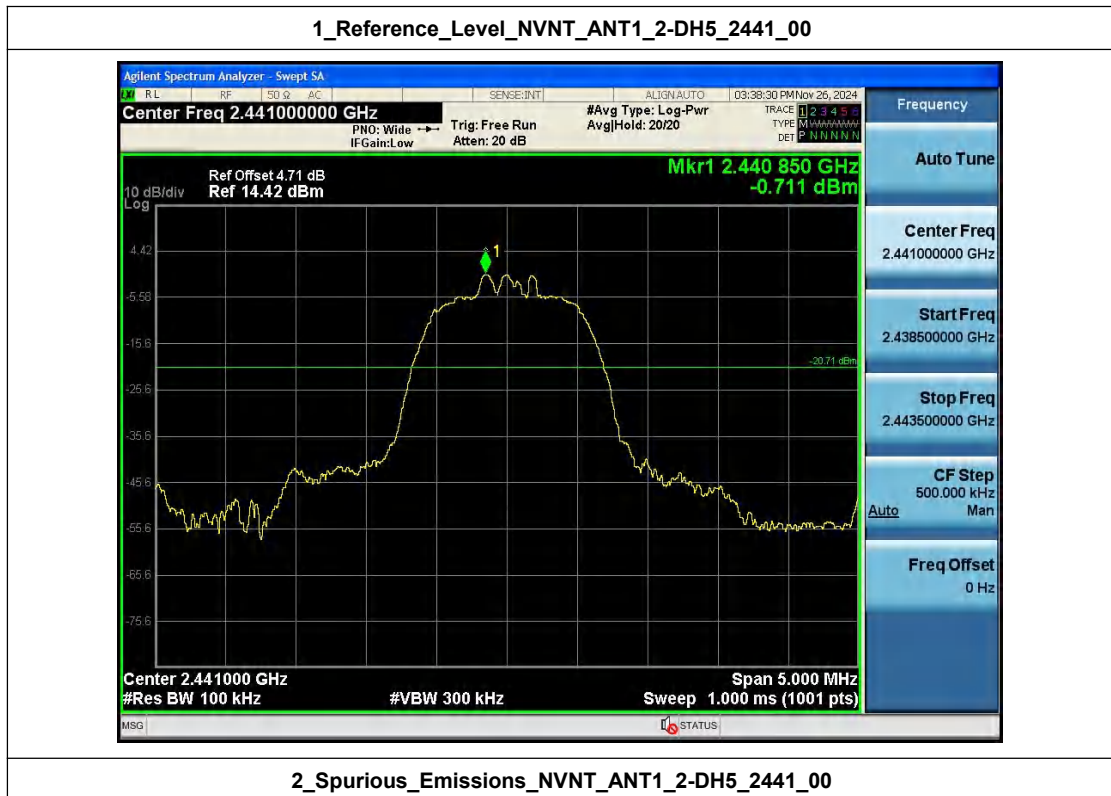


2_Spurious_Emissions_NVNT_ANT1_2-DH5_2402_00





1_Reference_Level_NVNT_ANT1_2-DH5_2441_00

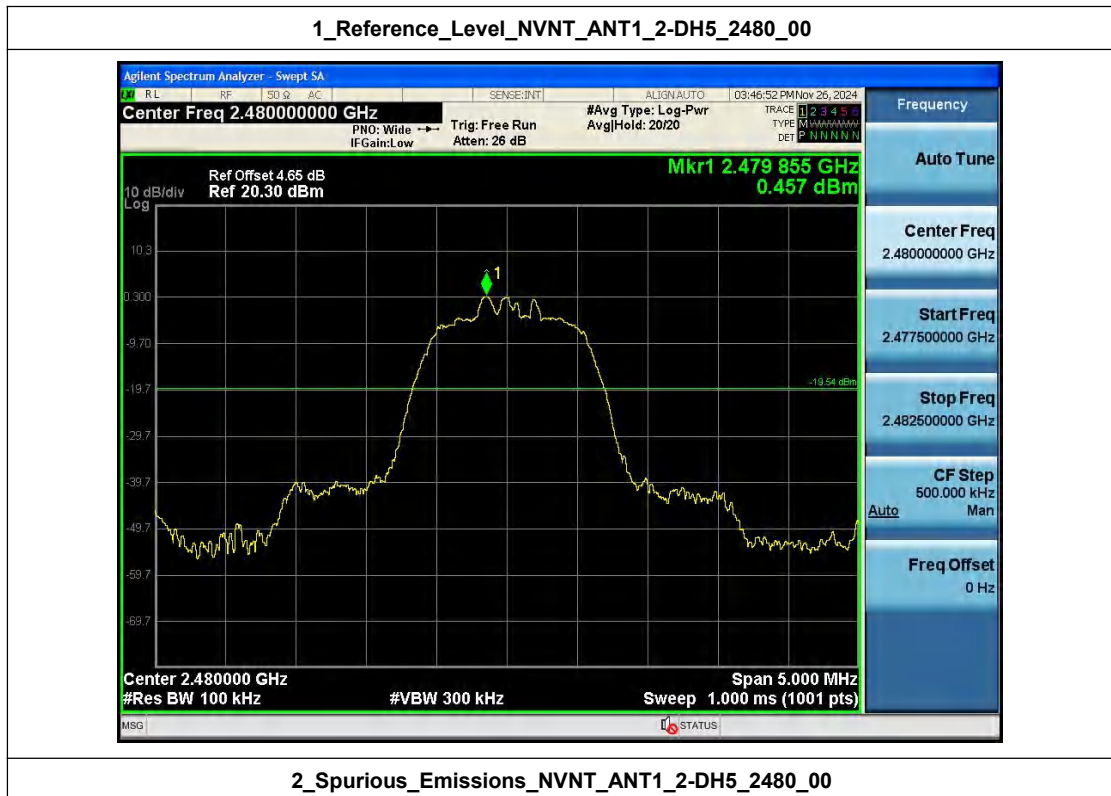


2_Spurious_Emissions_NVNT_ANT1_2-DH5_2441_00





1_Reference_Level_NVNT_ANT1_2-DH5_2480_00

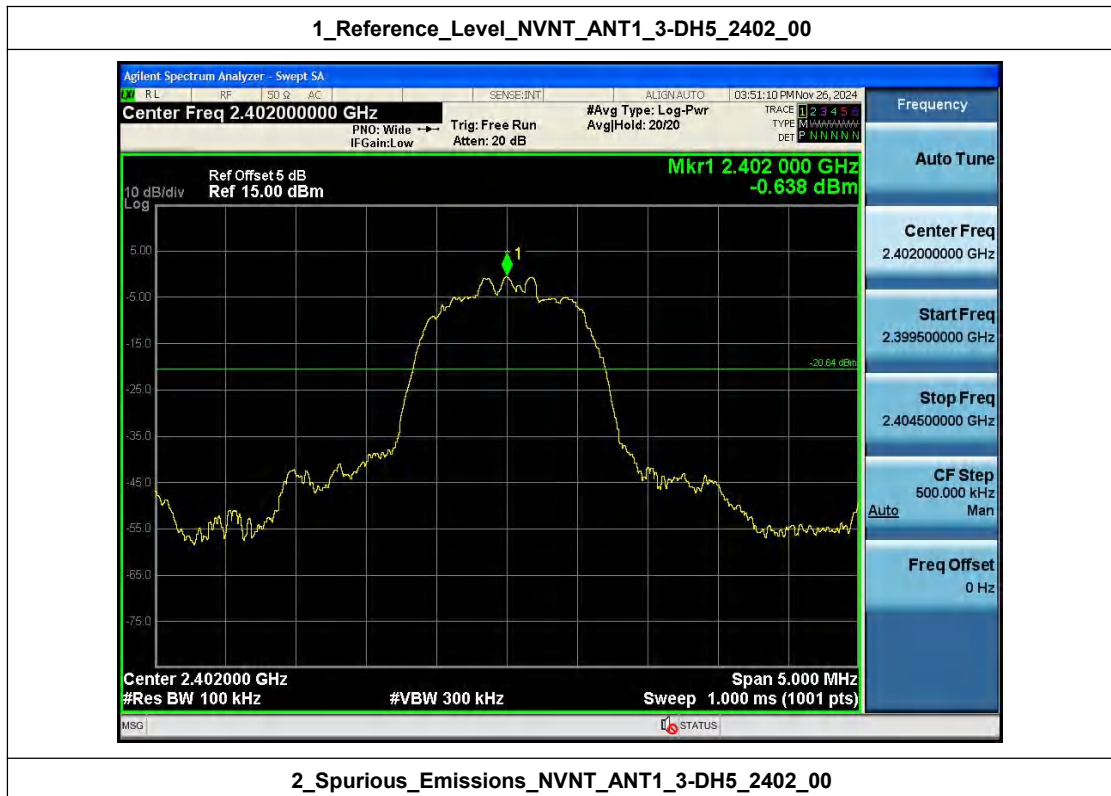


2_Spurious_Emissions_NVNT_ANT1_2-DH5_2480_00



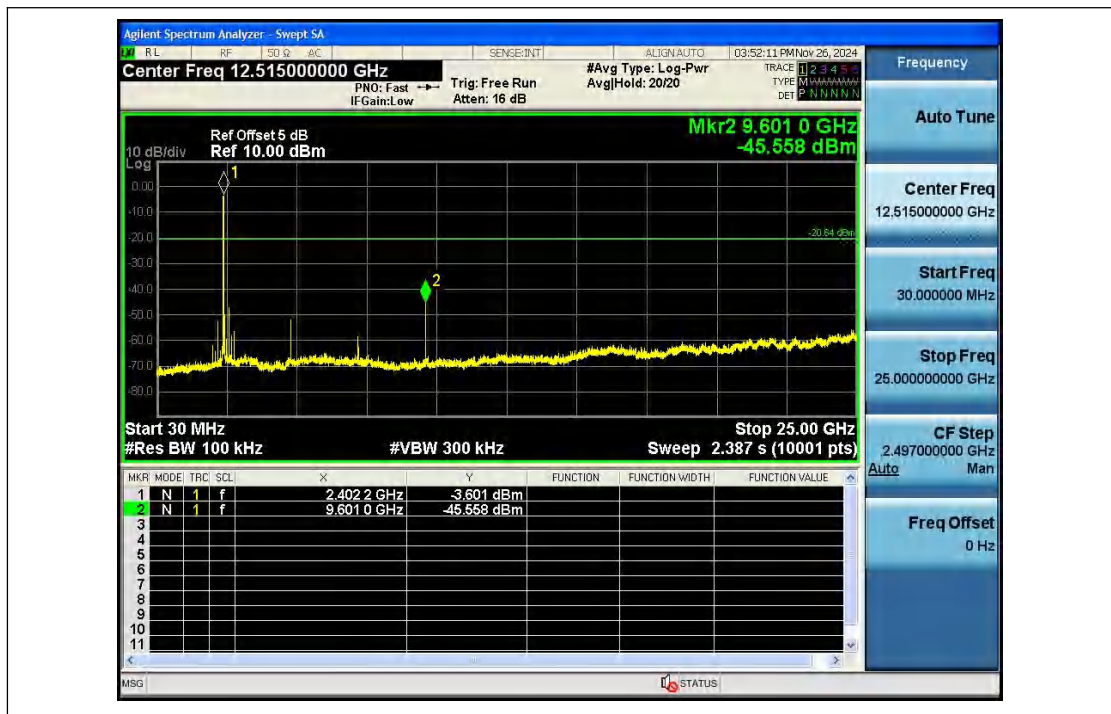


1_Reference_Level_NVNT_ANT1_3-DH5_2402_00

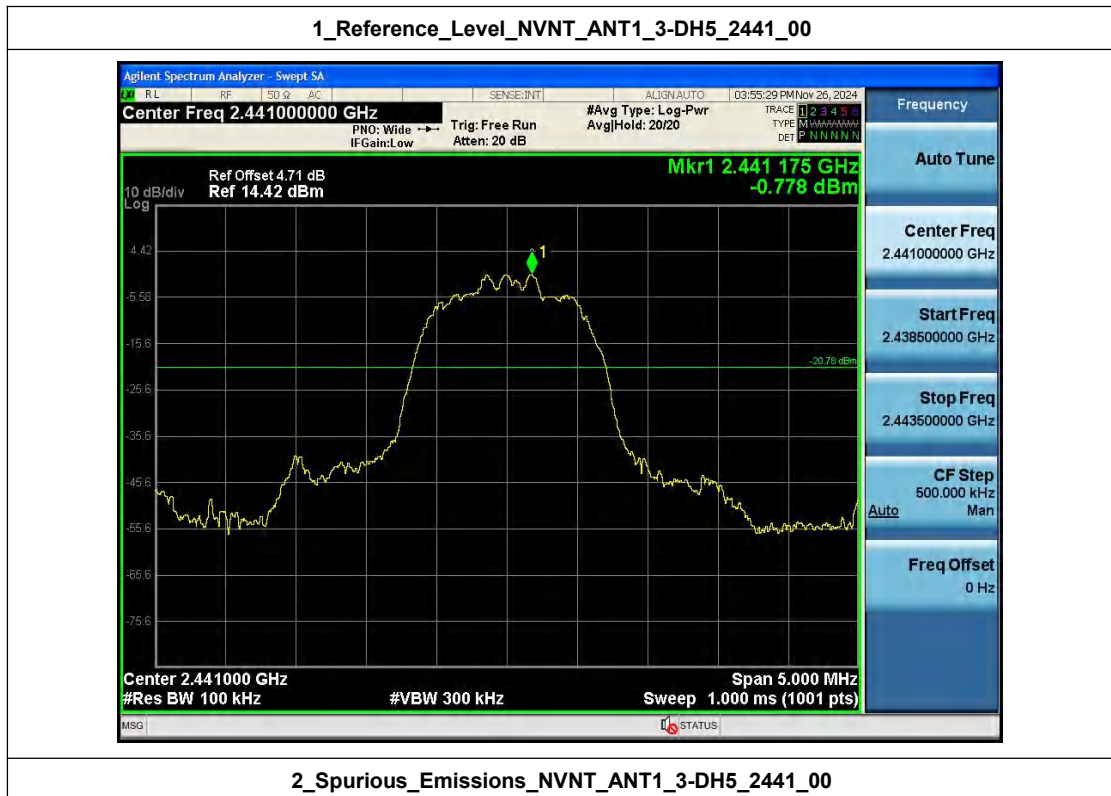


2_Spurious_Emissions_NVNT_ANT1_3-DH5_2402_00



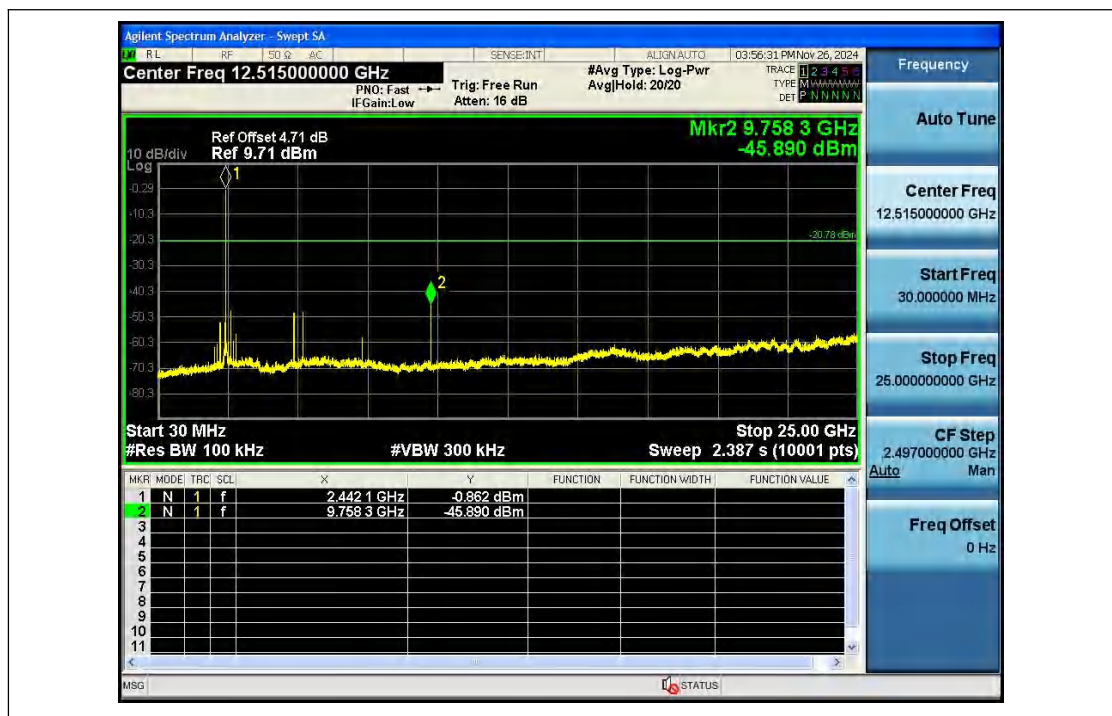


1_Reference_Level_NVNT_ANT1_3-DH5_2441_00

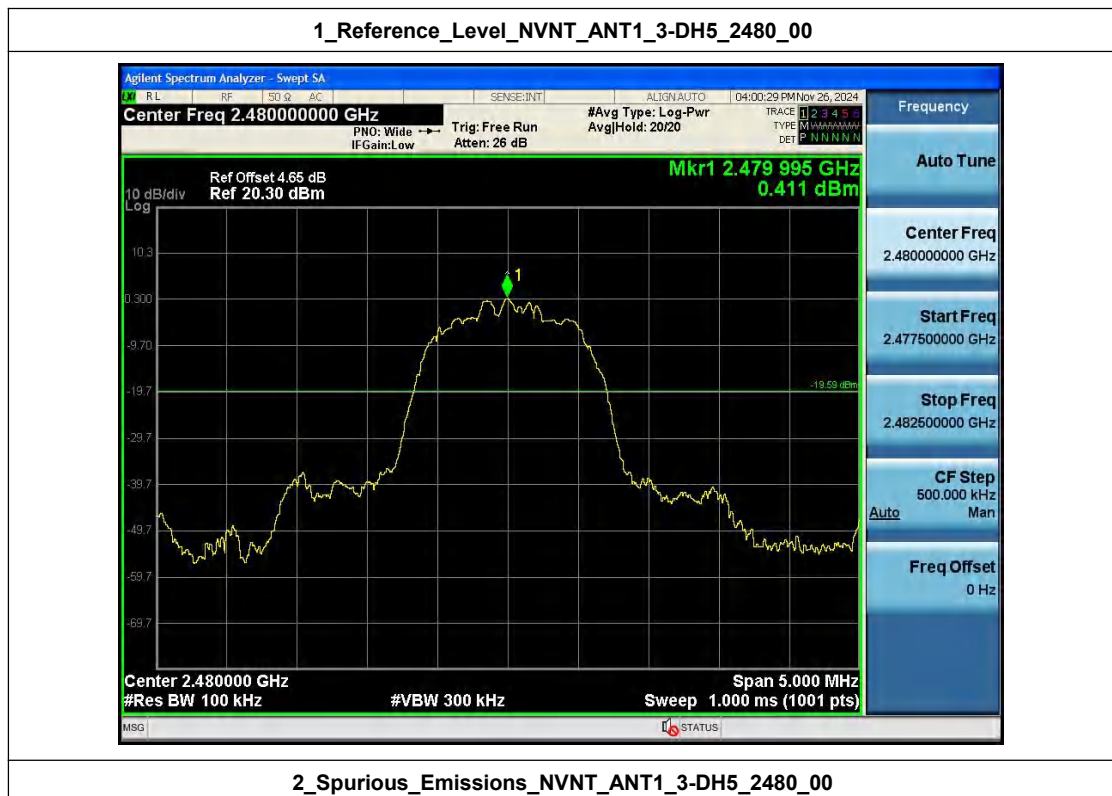


2_Spurious_Emissions_NVNT_ANT1_3-DH5_2441_00



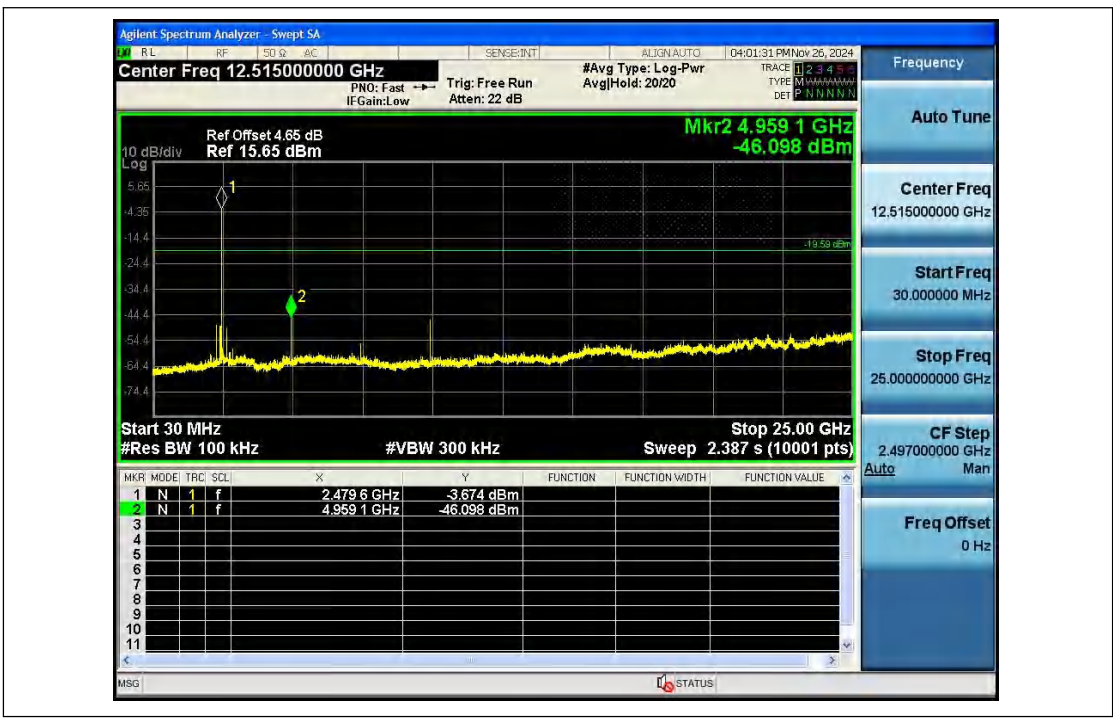


1_Reference_Level_NVNT_ANT1_3-DH5_2480_00



2_Spurious_Emissions_NVNT_ANT1_3-DH5_2480_00





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400-003-0500
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Appendix F: Bandedge

Condition	Antenna	Modulation	TX Mode	Bandedge MAX.Value	Limit	Result
NVNT	ANT1	1-DH5	2402.00	-41.243	-20.862	Pass
NVNT	ANT1	1-DH5	Hopping_LCH	-42.224	-19.763	Pass
NVNT	ANT1	1-DH5	2480.00	-49.632	-19.638	Pass
NVNT	ANT1	1-DH5	Hopping_HCH	-53.315	-20.077	Pass
NVNT	ANT1	2-DH5	2402.00	-41.059	-20.686	Pass
NVNT	ANT1	2-DH5	Hopping_LCH	-44.149	-19.794	Pass
NVNT	ANT1	2-DH5	2480.00	-51.756	-19.543	Pass
NVNT	ANT1	2-DH5	Hopping_HCH	-57.235	-20.213	Pass
NVNT	ANT1	3-DH5	2402.00	-40.904	-20.638	Pass
NVNT	ANT1	3-DH5	Hopping_LCH	-44.881	-19.772	Pass
NVNT	ANT1	3-DH5	2480.00	-48.883	-19.589	Pass
NVNT	ANT1	3-DH5	Hopping_HCH	-58.250	-20.262	Pass

1_Reference_Level_NVNT_ANT1_1-DH5_2402_00



2_Bandedge_NVNT_ANT1_1-DH5_2402_00



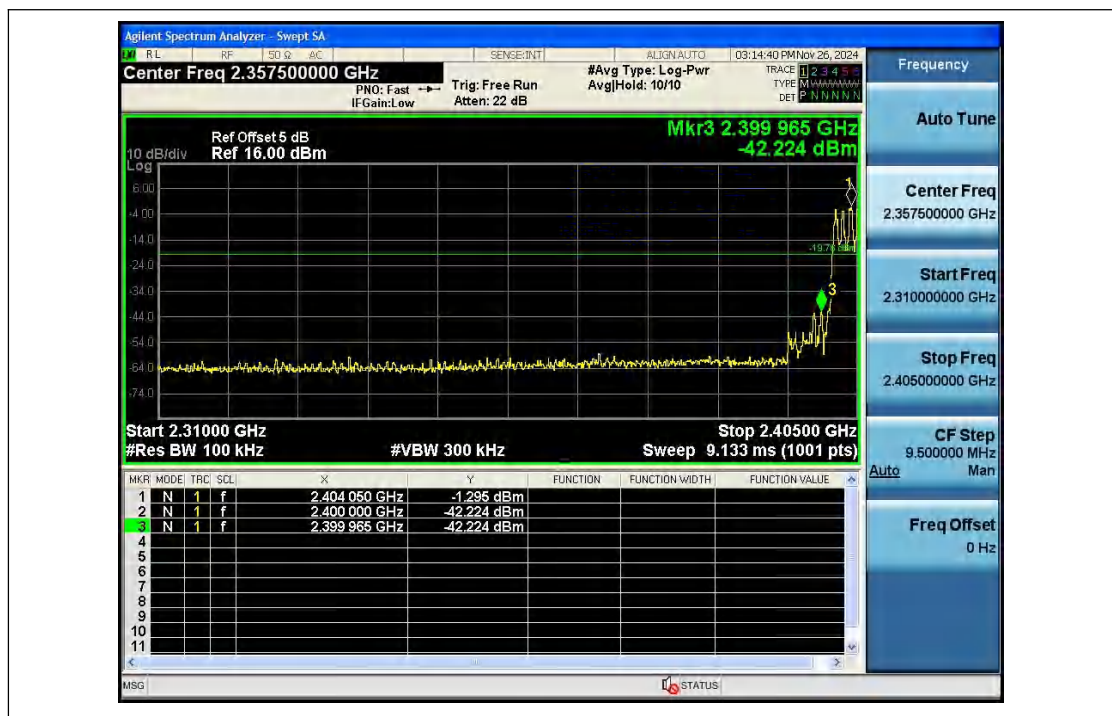


1_Reference_Level_Hopping_NVNT_ANT1_1-DH5_Hopping

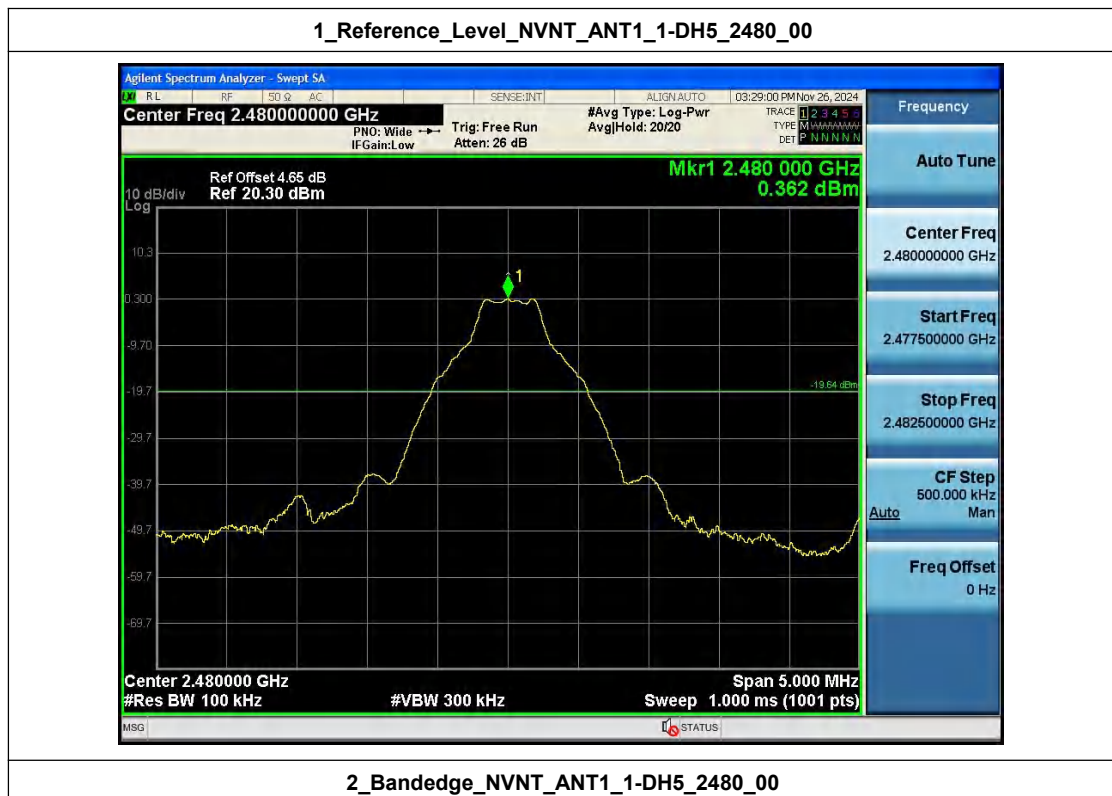


2_Band_Edge_(Hopping)_NVNT_ANT1_1-DH5_Hopping



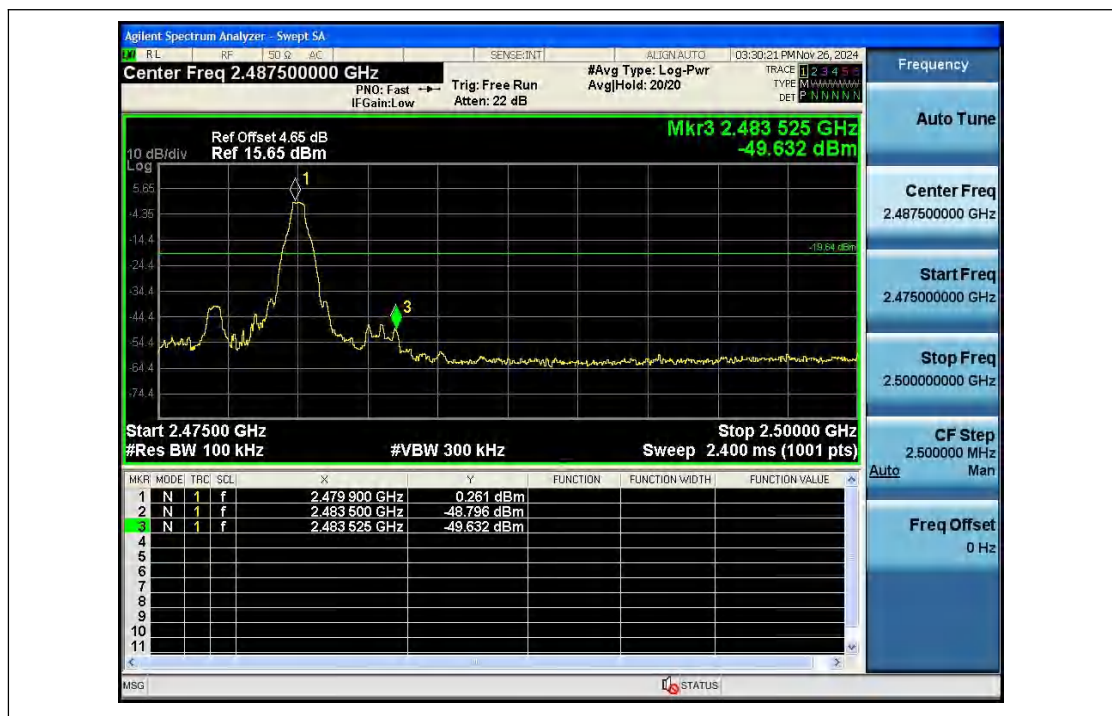


1_Reference_Level_NVNT_ANT1_1-DH5_2480_00

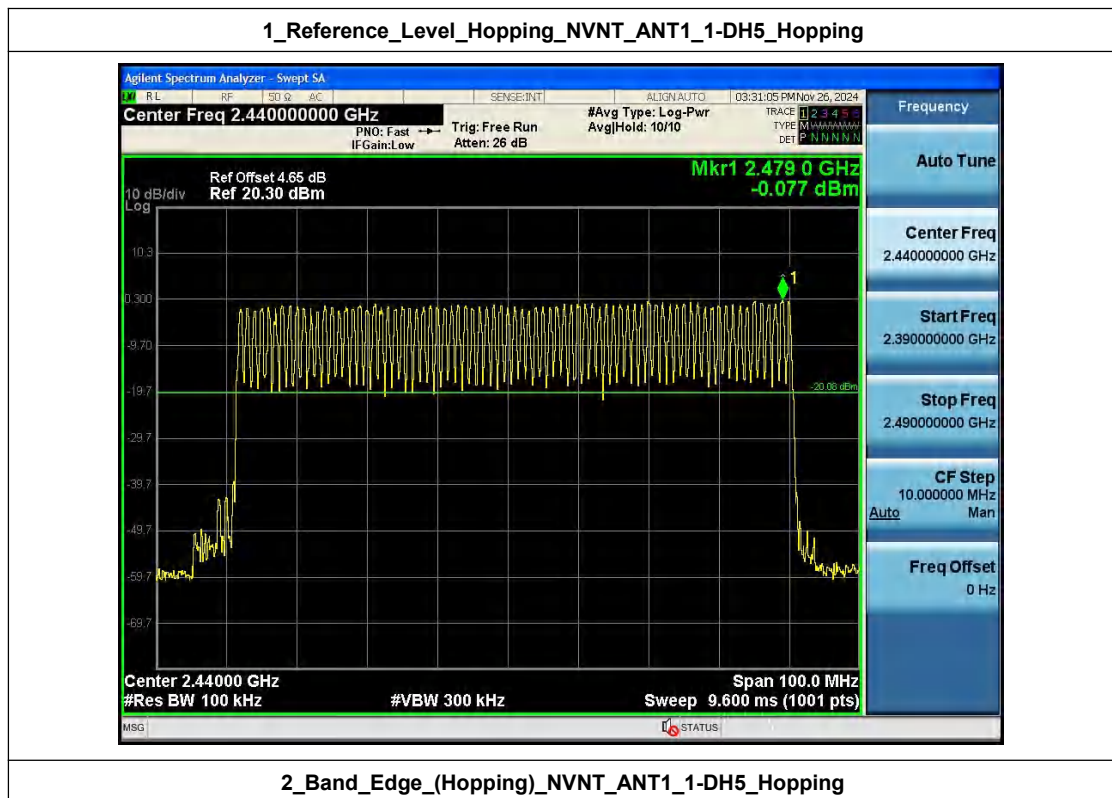


2_Bandedge_NVNT_ANT1_1-DH5_2480_00



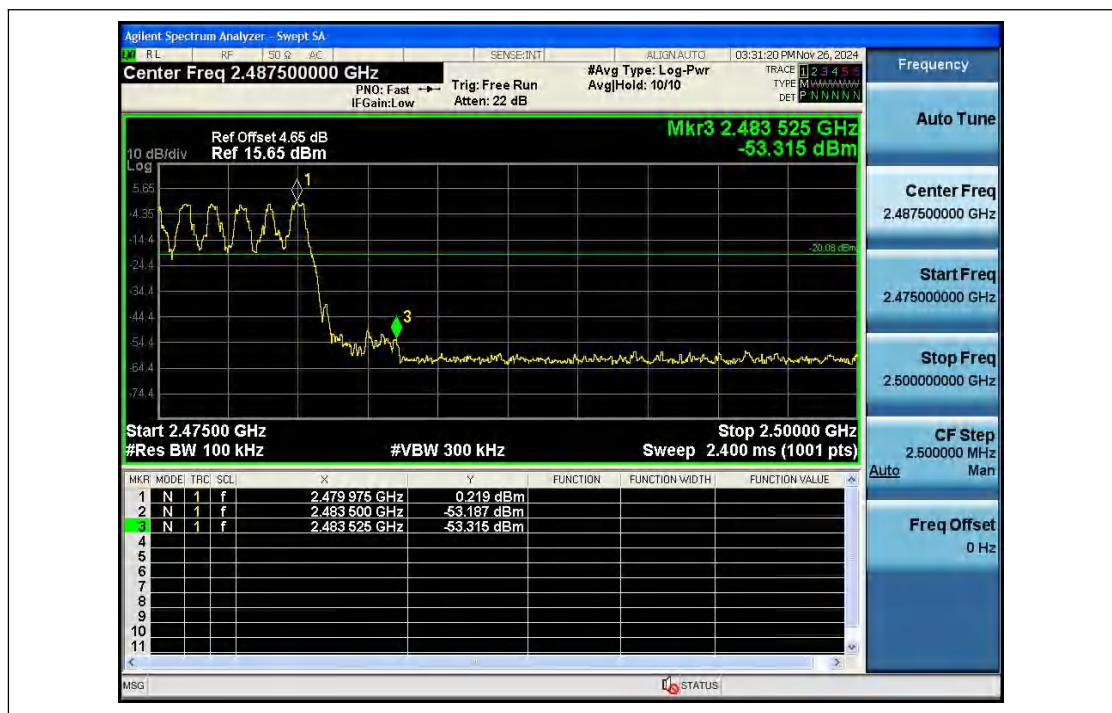


1_Reference_Level_Hopping_NVNT_ANT1_1-DH5_Hopping

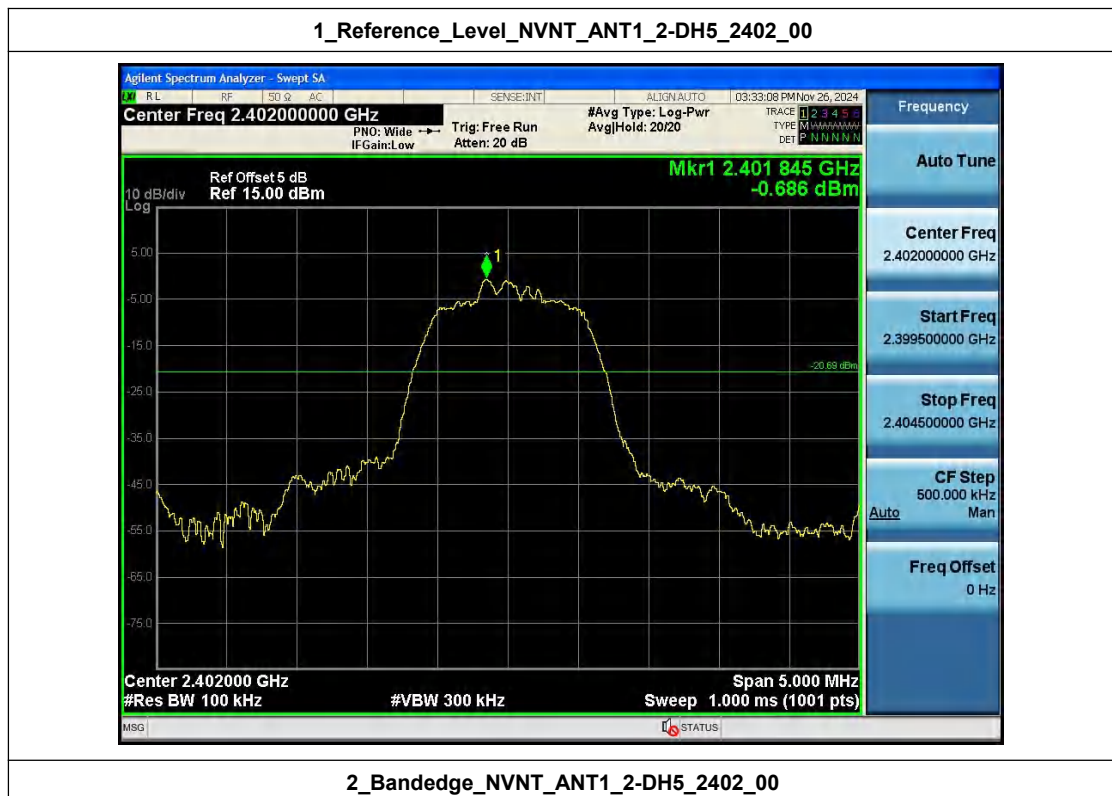


2_Band_Edge_(Hopping)_NVNT_ANT1_1-DH5_Hopping





1_Reference_Level_NVNT_ANT1_2-DH5_2402_00

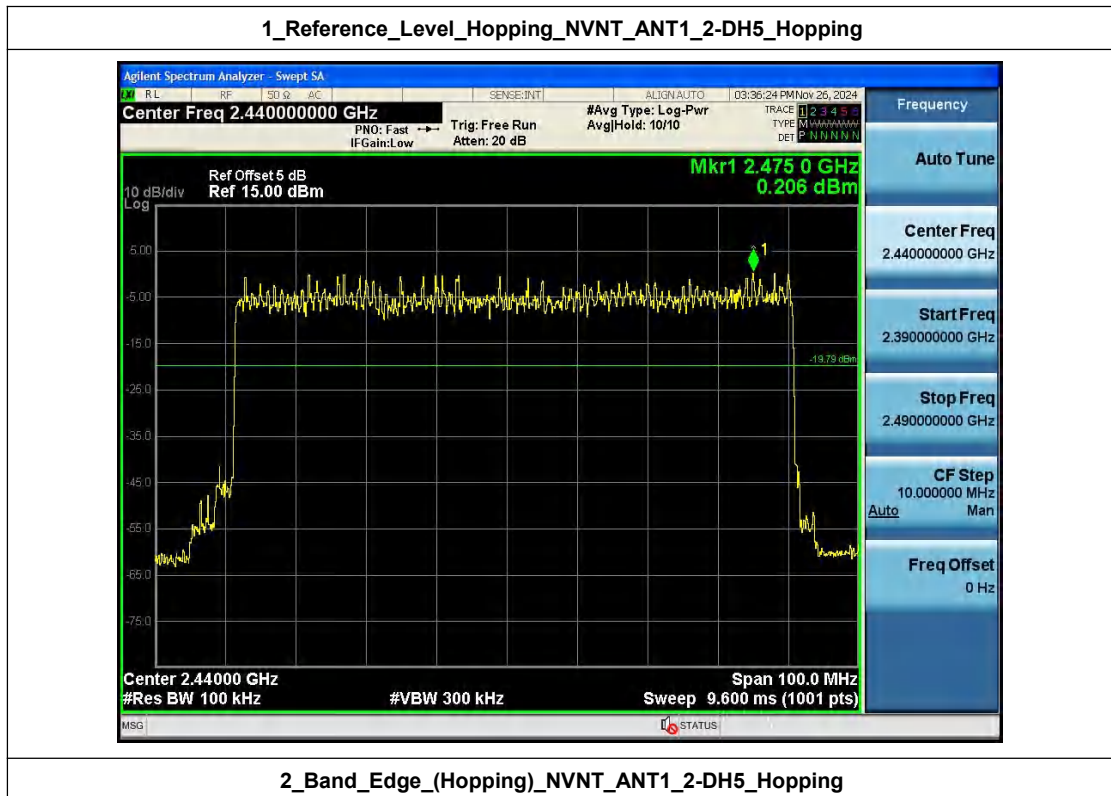


2_Bandedge_NVNT_ANT1_2-DH5_2402_00



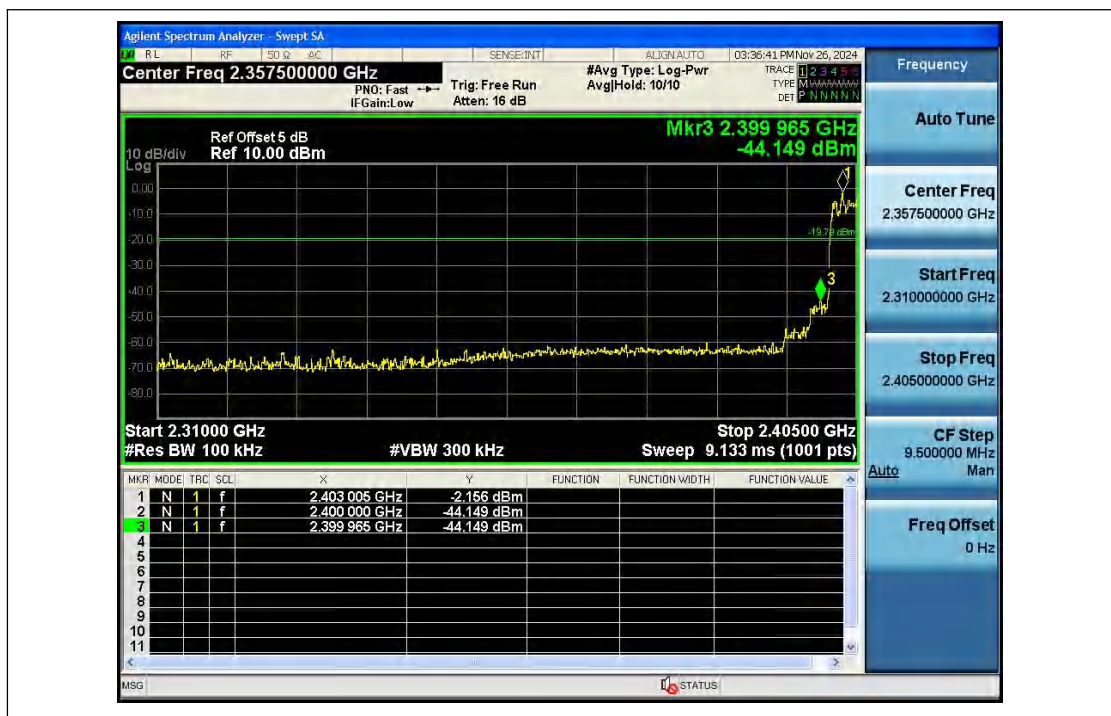


1_Reference_Level_Hopping_NVNT_ANT1_2-DH5_Hopping

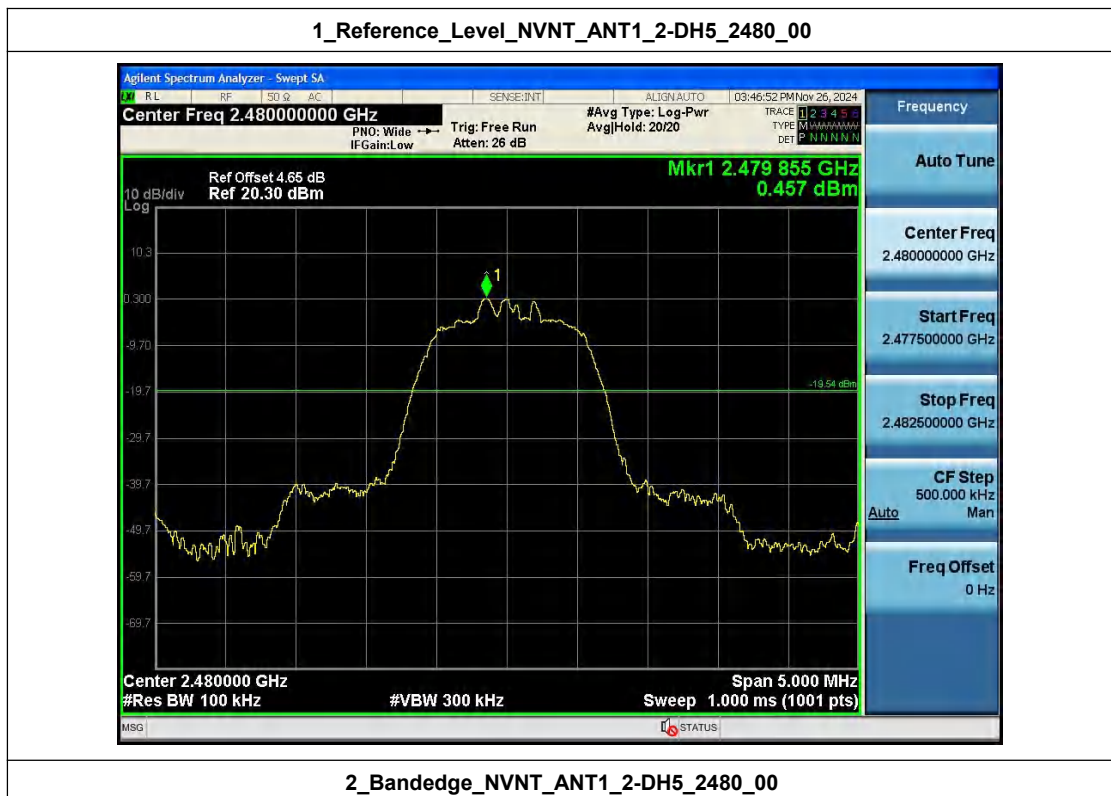


2_Band_Edge_(Hopping)_NVNT_ANT1_2-DH5_Hopping



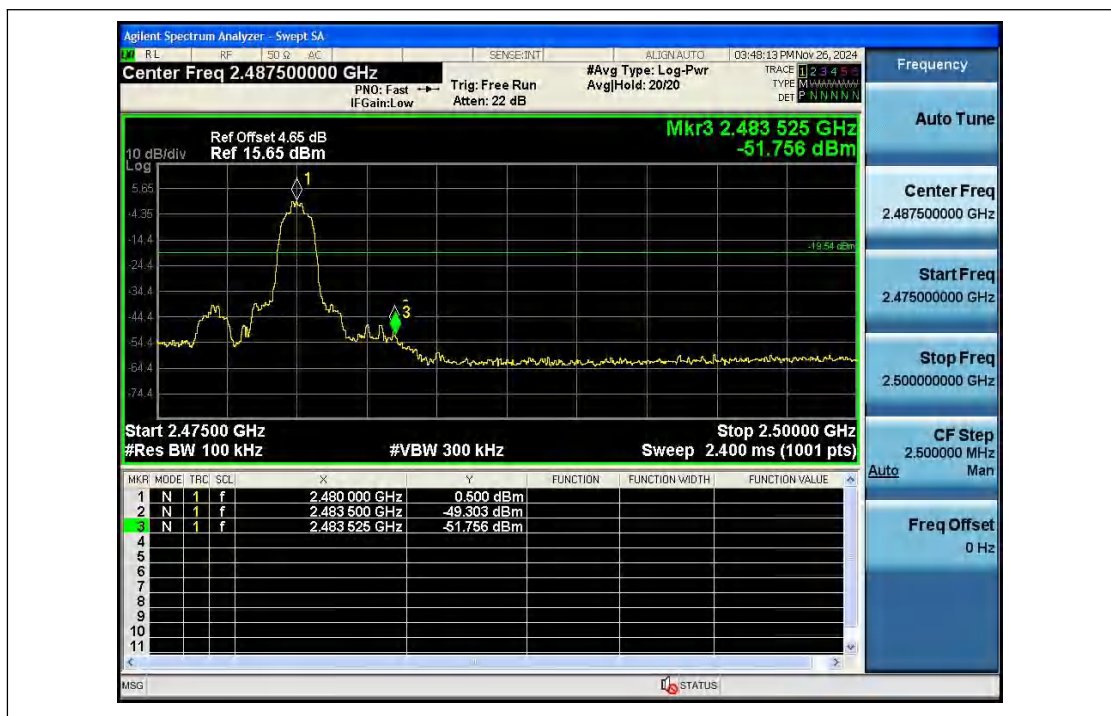


1_Reference_Level_NVNT_ANT1_2-DH5_2480_00

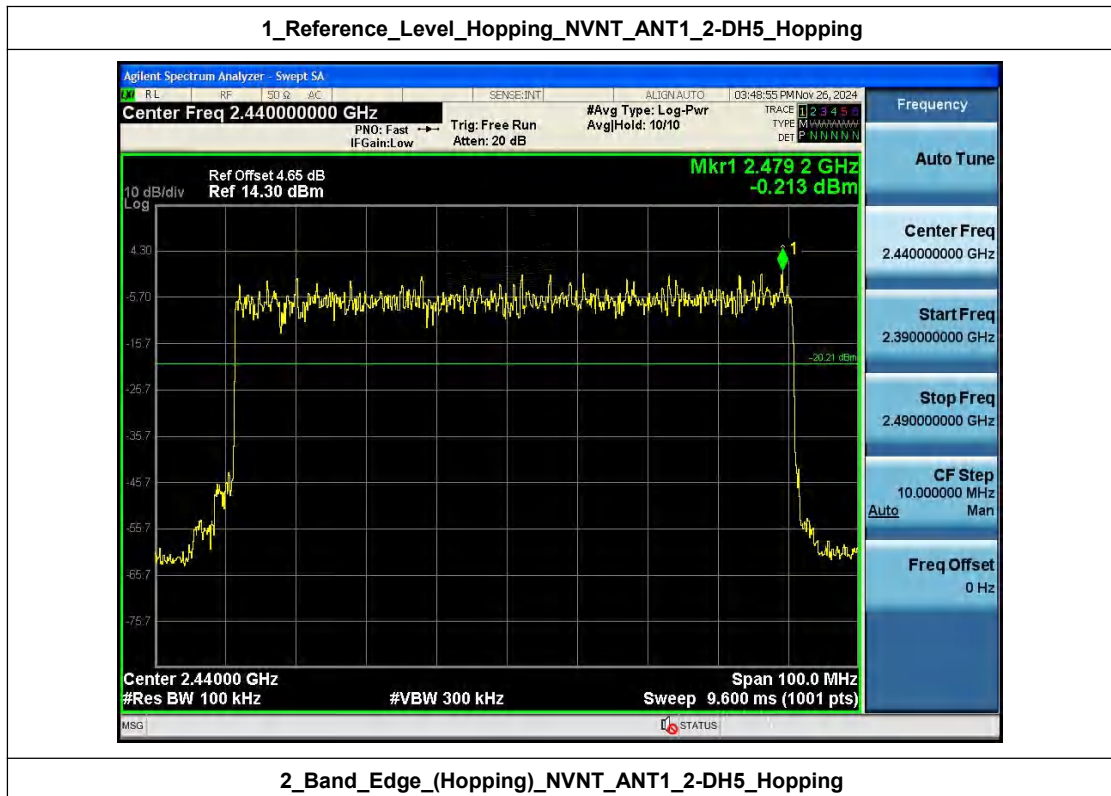


2_Bandedge_NVNT_ANT1_2-DH5_2480_00



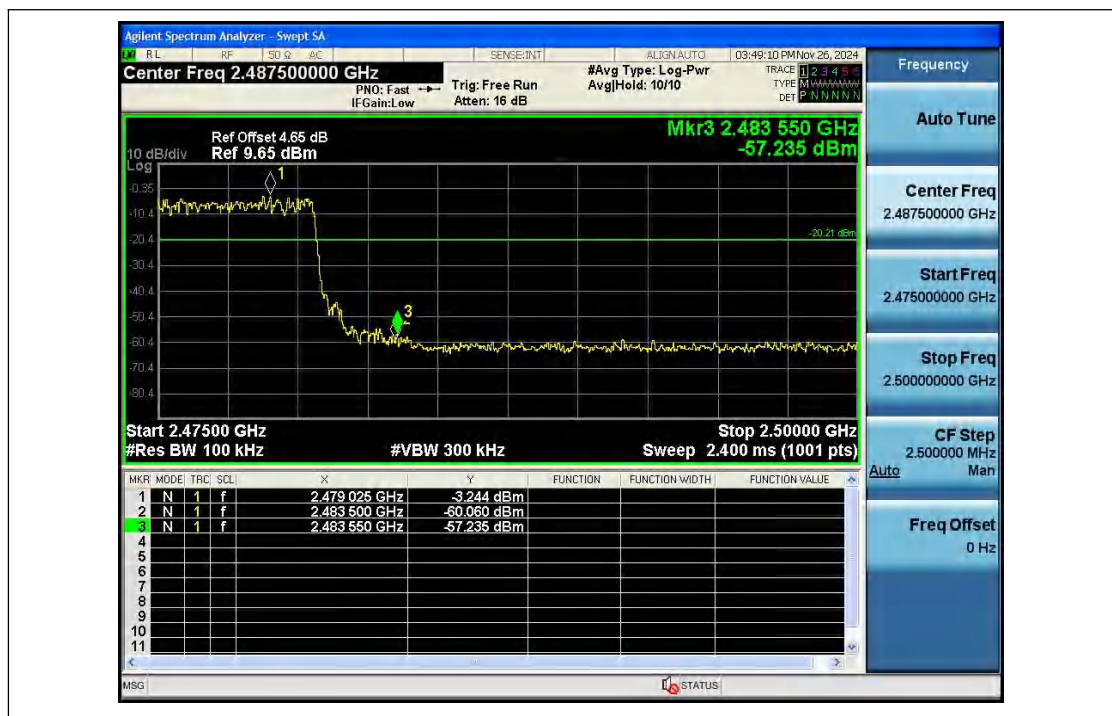


1_Reference_Level_Hopping_NVNT_ANT1_2-DH5_Hopping

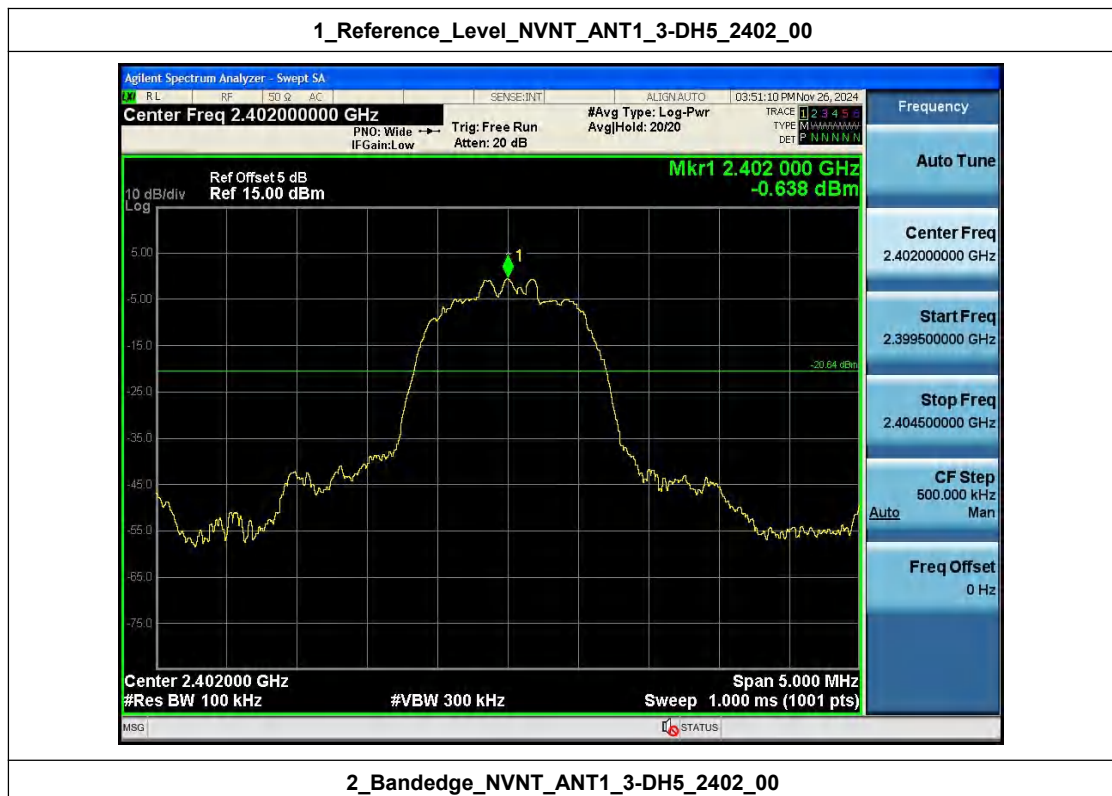


2_Band_Edge_(Hopping)_NVNT_ANT1_2-DH5_Hopping





1_Reference_Level_NVNT_ANT1_3-DH5_2402_00

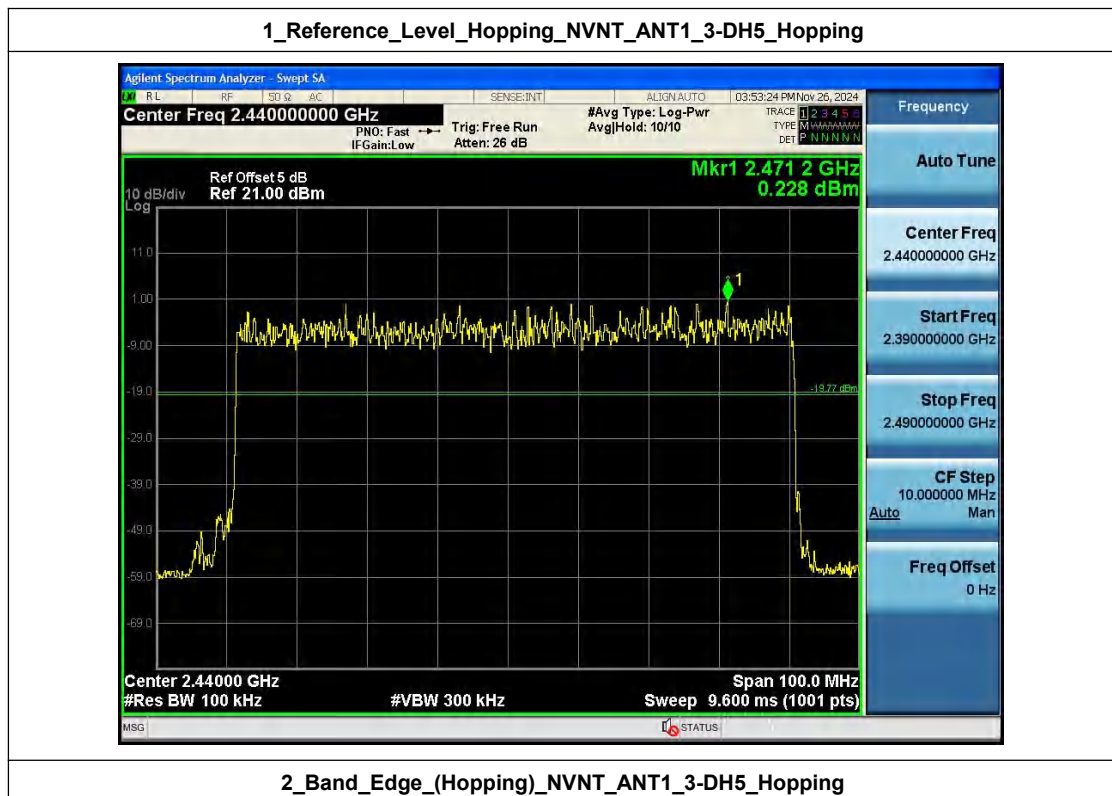


2_Bandedge_NVNT_ANT1_3-DH5_2402_00



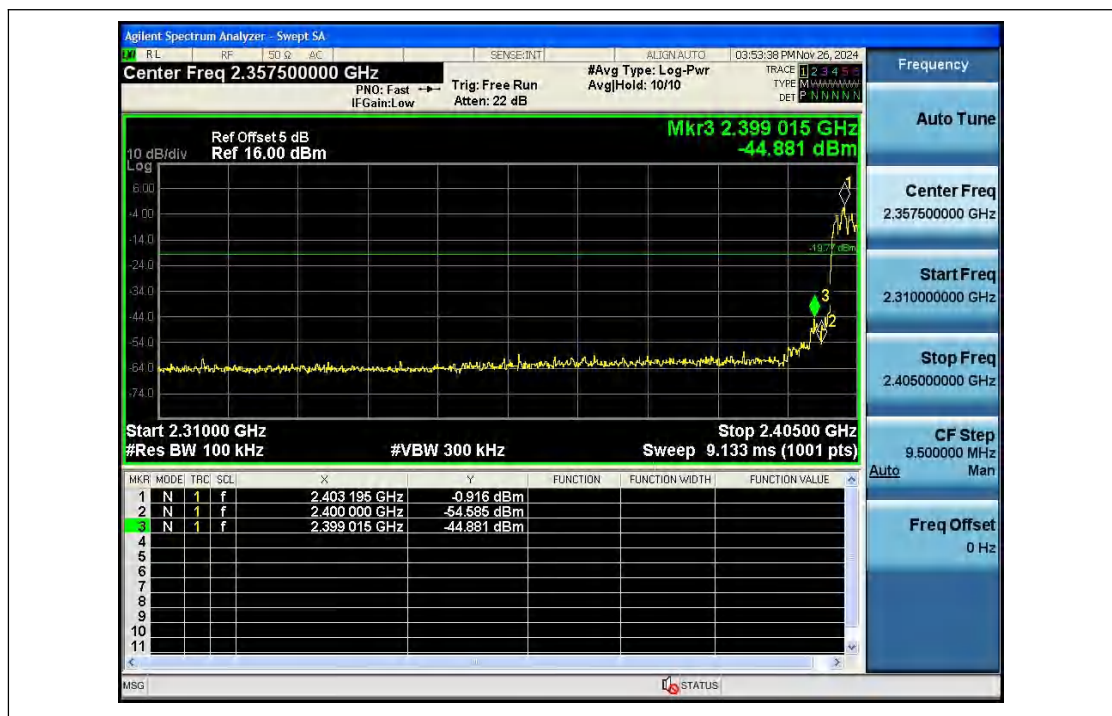


1_Reference_Level_Hopping_NVNT_ANT1_3-DH5_Hopping

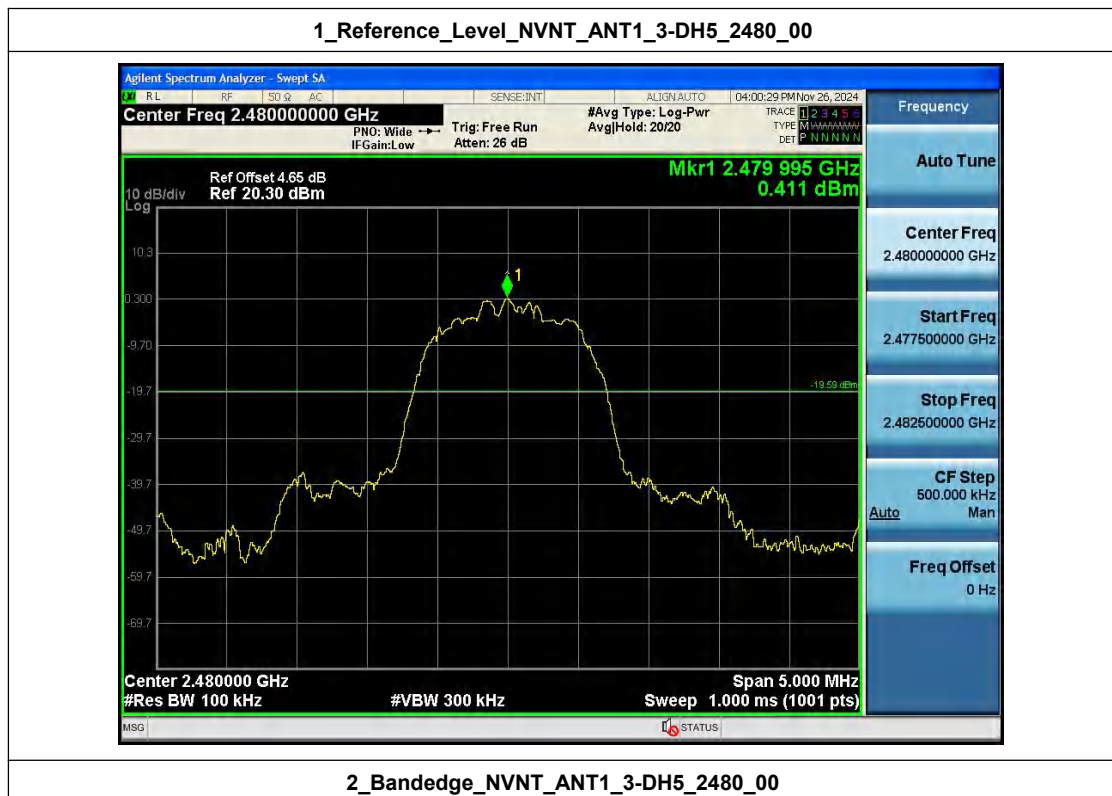


2_Band_Edge_(Hopping)_NVNT_ANT1_3-DH5_Hopping



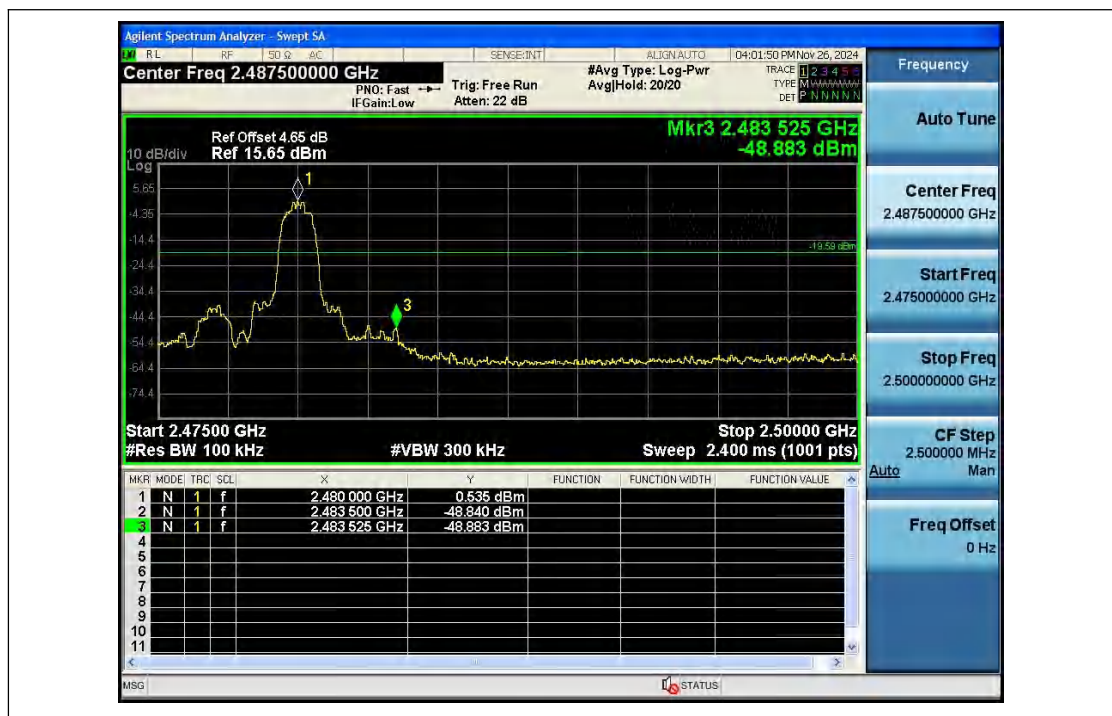


1_Reference_Level_NVNT_ANT1_3-DH5_2480_00

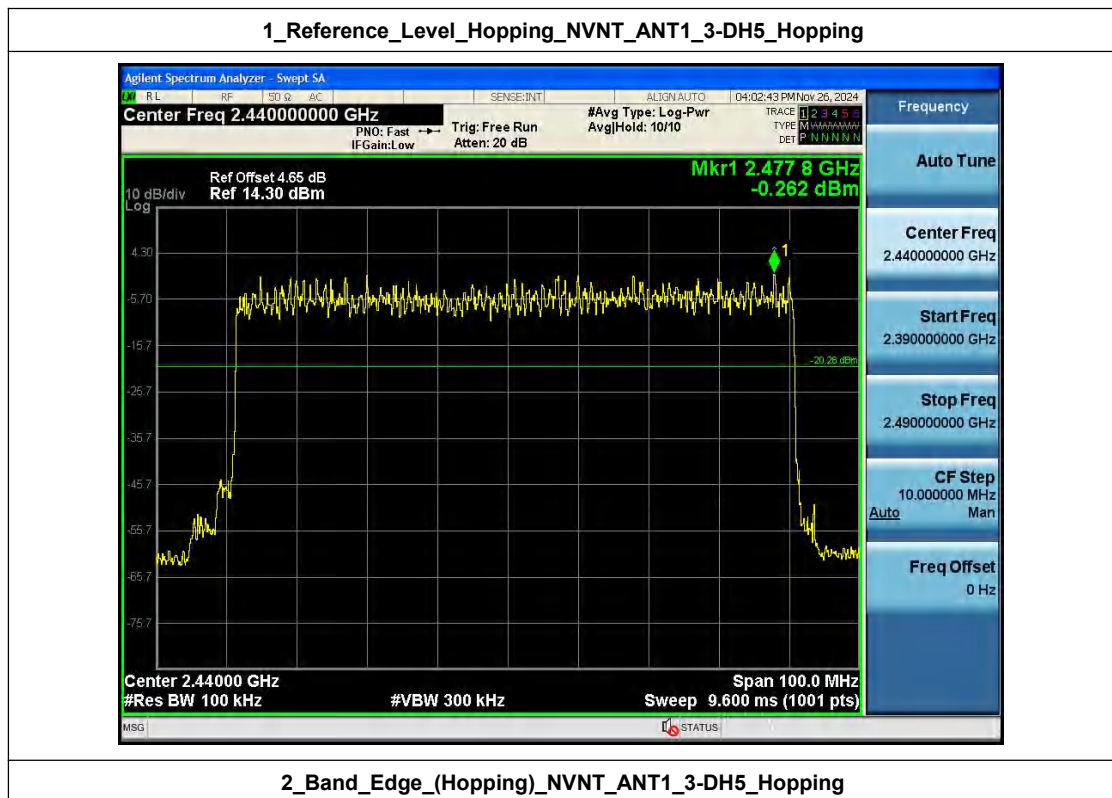


2_Bandedge_NVNT_ANT1_3-DH5_2480_00





1_Reference_Level_Hopping_NVNT_ANT1_3-DH5_Hopping



2_Band_Edge_(Hopping)_NVNT_ANT1_3-DH5_Hopping





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Hotline 400-003-0500
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Appendix G: Carrier Frequencies Separation (Hopping)

Condition	Antenna	Modulation	Frequency(MHz)	Hopping NO.0 (MHz)	Hopping NO.1 (MHz)	Carrier Frequencies Separation(MHz)	Limit(MHz)	Result
NVNT	ANT1	1-DH5	2441.00	2440.867	2441.857	0.99	0.641	Pass
NVNT	ANT1	2-DH5	2441.00	2440.801	2441.932	1.13	0.869	Pass
NVNT	ANT1	3-DH5	2441.00	2440.954	2441.863	0.91	0.866	Pass

Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_1-DH5_Hopping

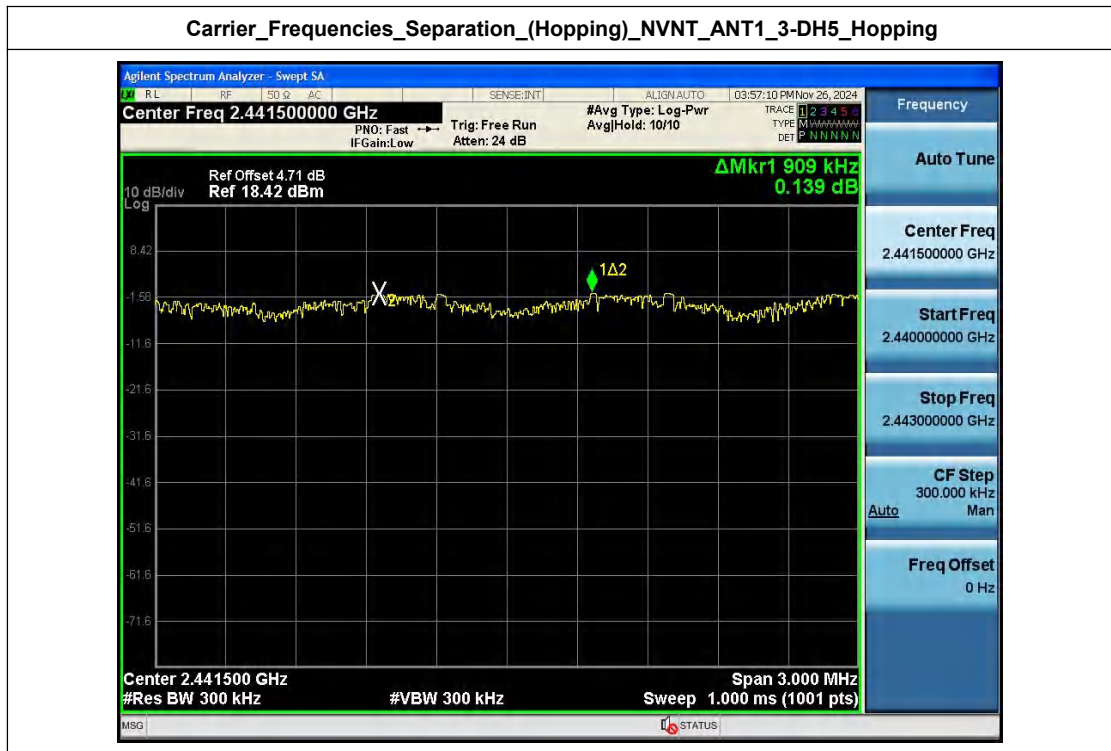


Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_2-DH5_Hopping





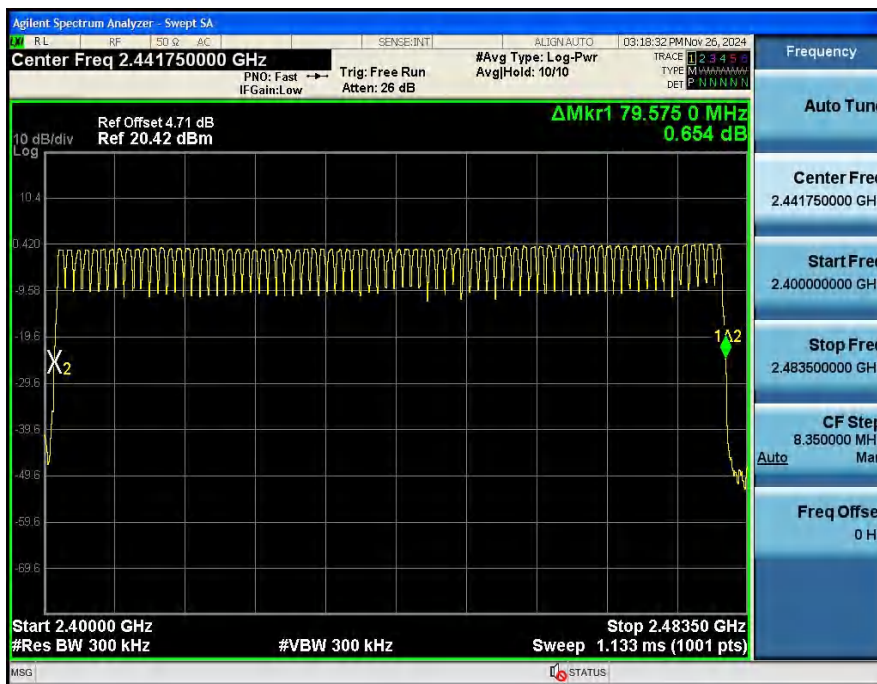
Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_3-DH5_Hopping



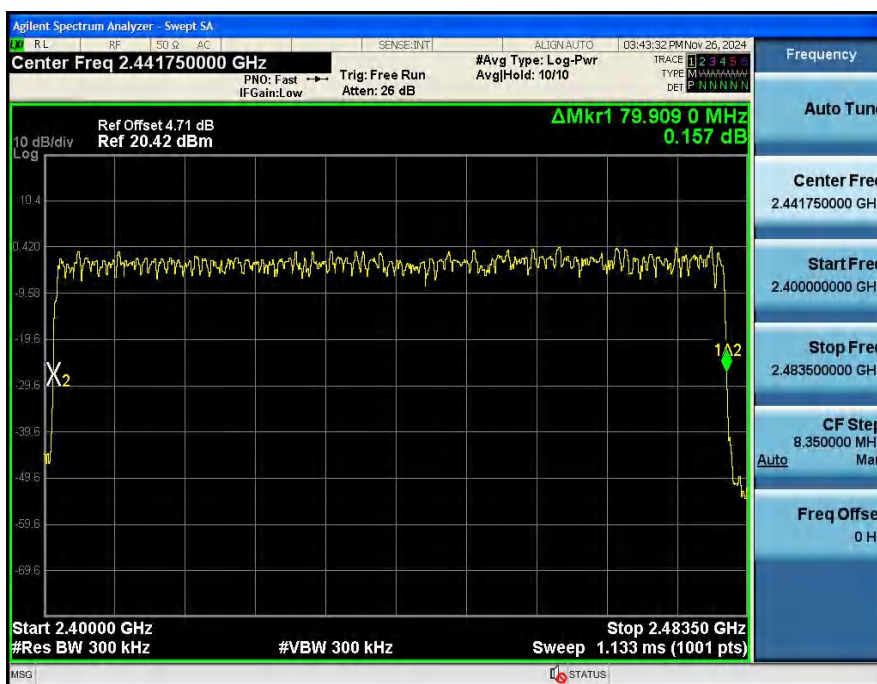
Appendix H: Number of Hopping Channel (Hopping)

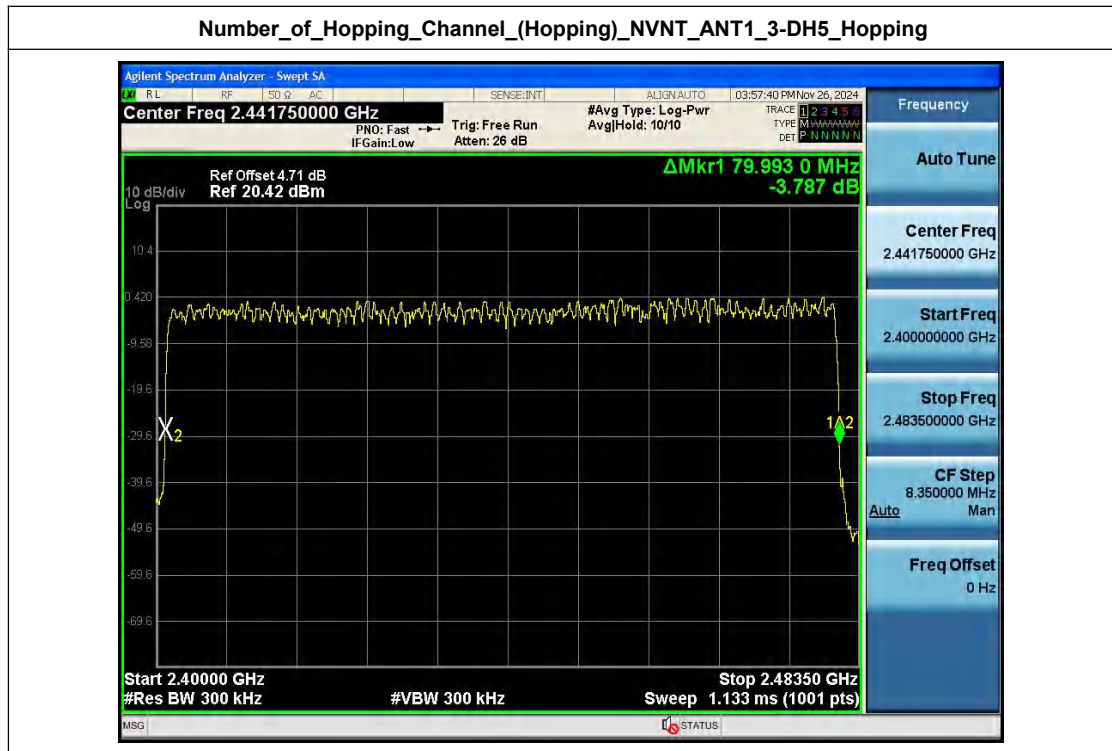
Condition	Antenna	Modulation	Hopping Num	Limit	Result
NVNT	ANT1	1-DH5	79	15	Pass
NVNT	ANT1	2-DH5	79	15	Pass
NVNT	ANT1	3-DH5	79	15	Pass

Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_1-DH5_Hopping



Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_2-DH5_Hopping





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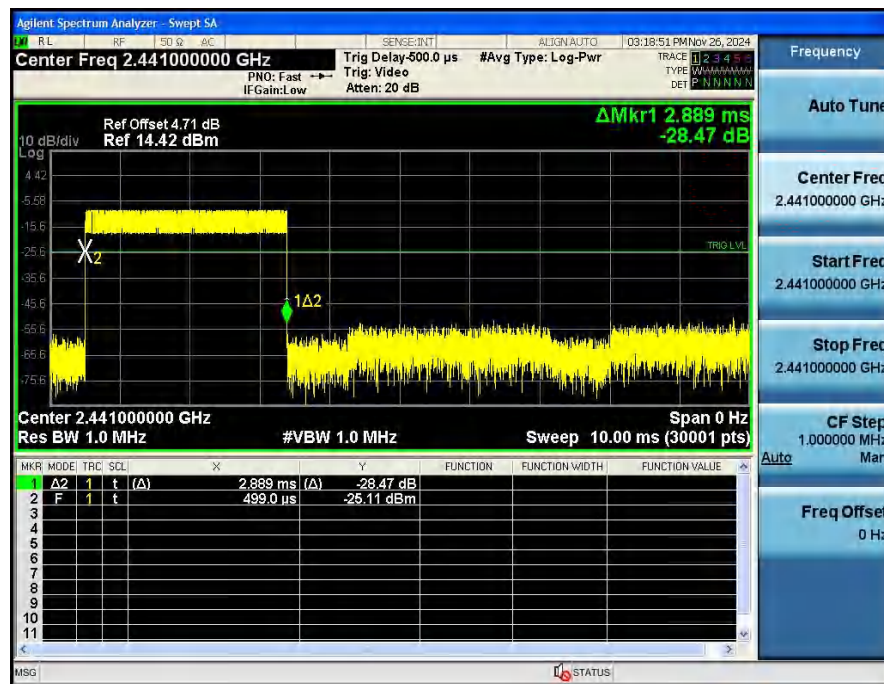
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Appendix I: Dwell Time (Hopping)

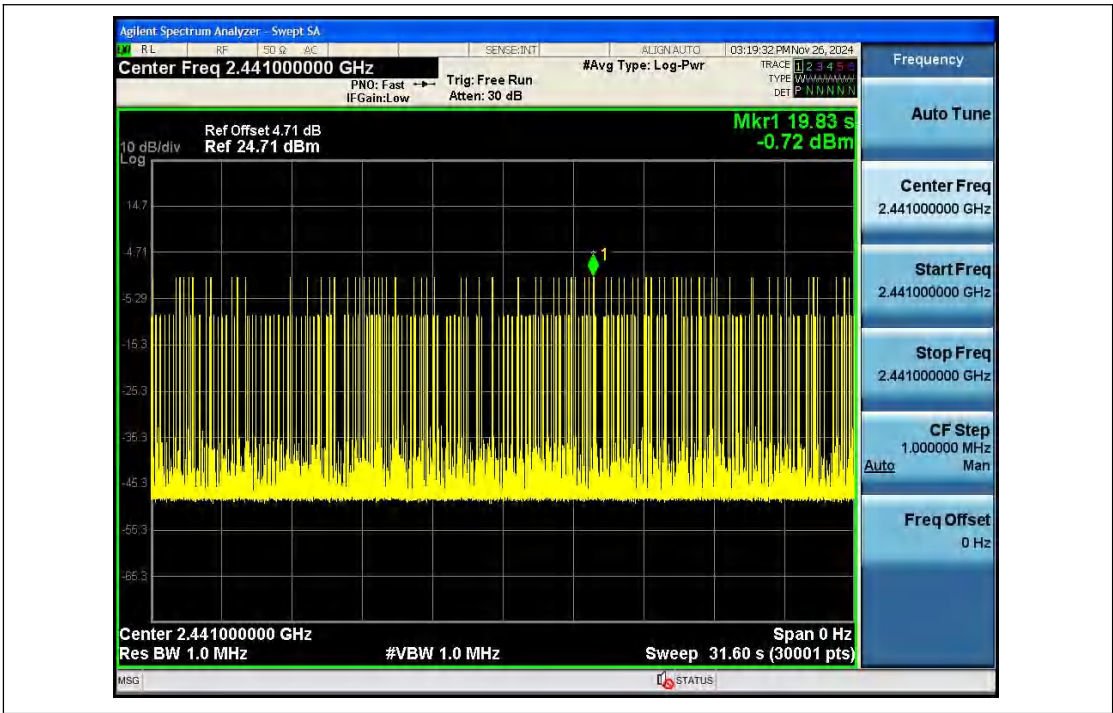
Condition	Antenna	Packet Type	Pulse Time(ms)	Hops	Dwell Time(ms)	Limit(s)	Result
NVNT	ANT1	1-DH5	2.889	86.00	248.454	0.40	Pass
NVNT	ANT1	2-DH5	2.894	118.00	341.492	0.40	Pass
NVNT	ANT1	3-DH5	2.895	108.00	312.660	0.40	Pass
NVNT	ANT1	1-DH1	0.385	320.00	123.200	0.40	Pass
NVNT	ANT1	1-DH3	1.641	154.00	252.714	0.40	Pass
NVNT	ANT1	2-DH1	0.393	320.00	125.760	0.40	Pass
NVNT	ANT1	2-DH3	1.646	162.00	266.652	0.40	Pass
NVNT	ANT1	3-DH1	0.393	320.00	125.760	0.40	Pass
NVNT	ANT1	3-DH3	1.645	166.00	273.070	0.40	Pass

Dwell_Time_(Hopping)_NVNT_ANT1_1-DH5_2441_00_One_Burst_Time

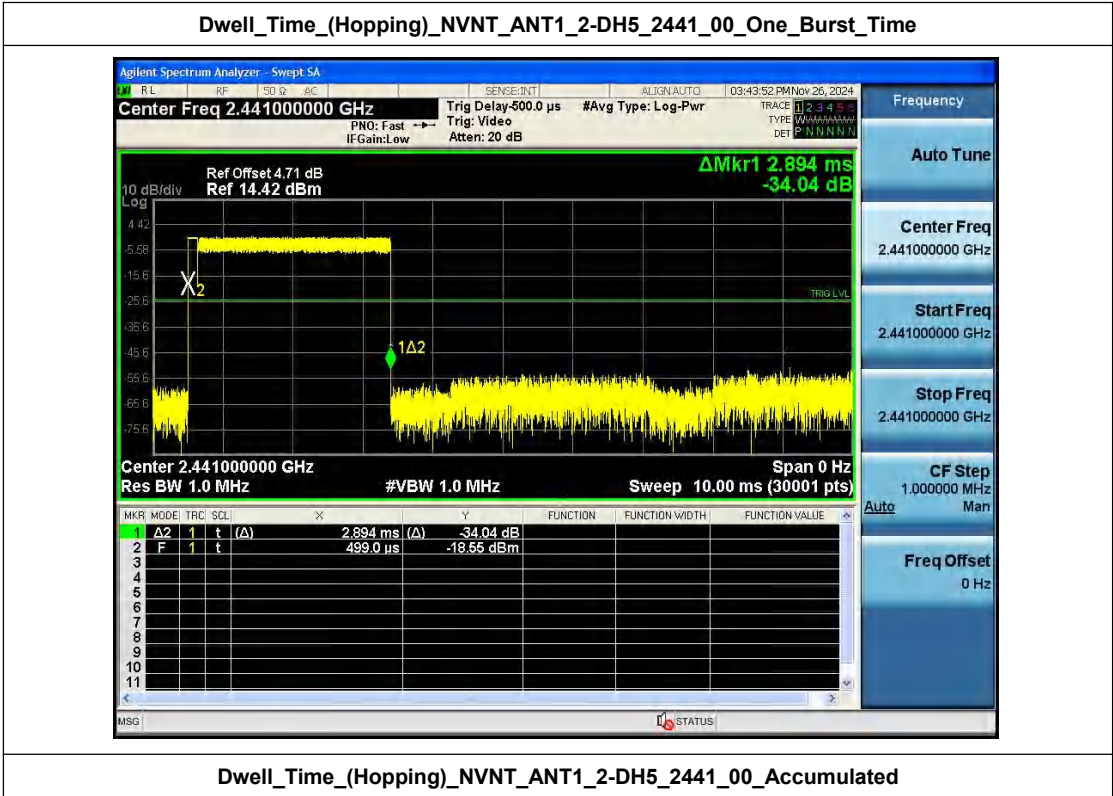


Dwell_Time_(Hopping)_NVNT_ANT1_1-DH5_2441_00_Accumulated





Dwell_Time_(Hopping)_NVNT_ANT1_2-DH5_2441_00_One_Burst_Time



MKR MODE TRG SOL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE

1 Δ2 1 t (Δ) 2.894 ms (Δ) -34.04 dB

2 F 1 t 499.0 μs -18.55 dBm

3

4

5

6

7

8

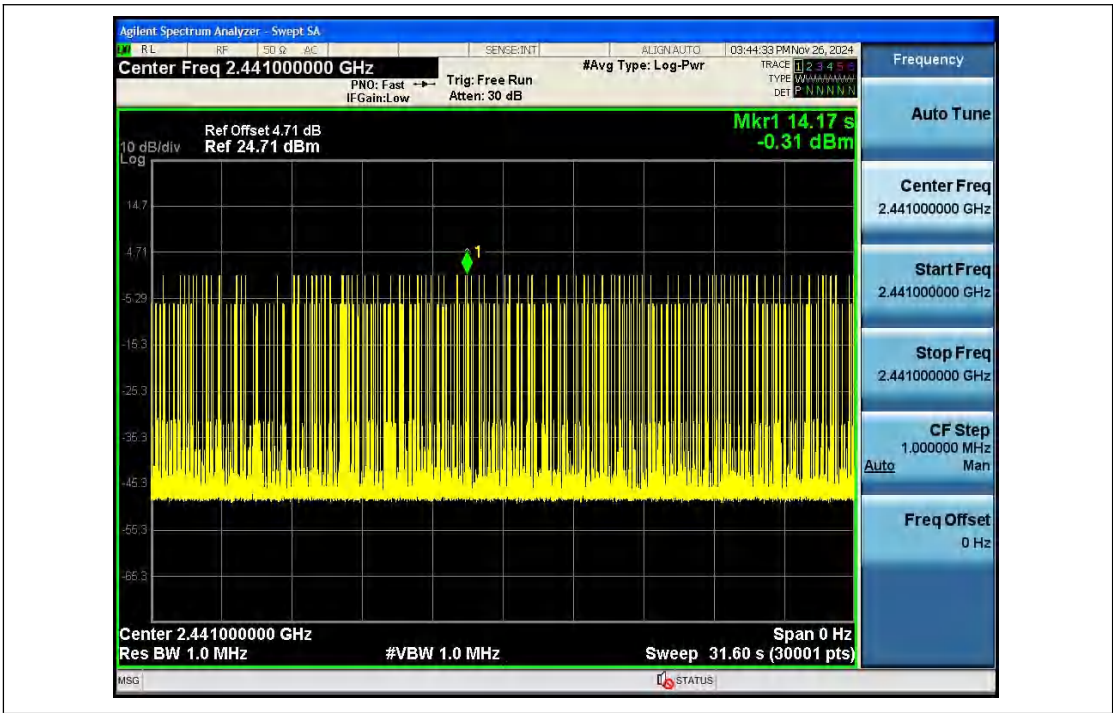
9

10

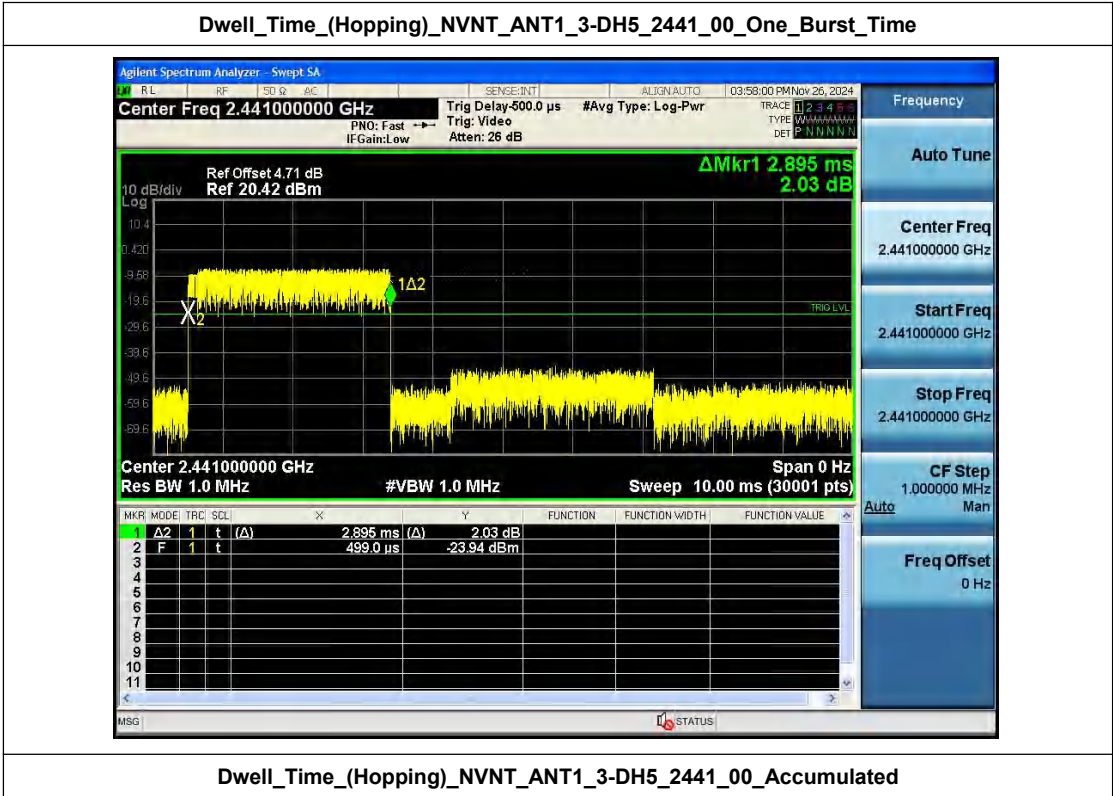
11

Dwell_Time_(Hopping)_NVNT_ANT1_2-DH5_2441_00_Accumulated





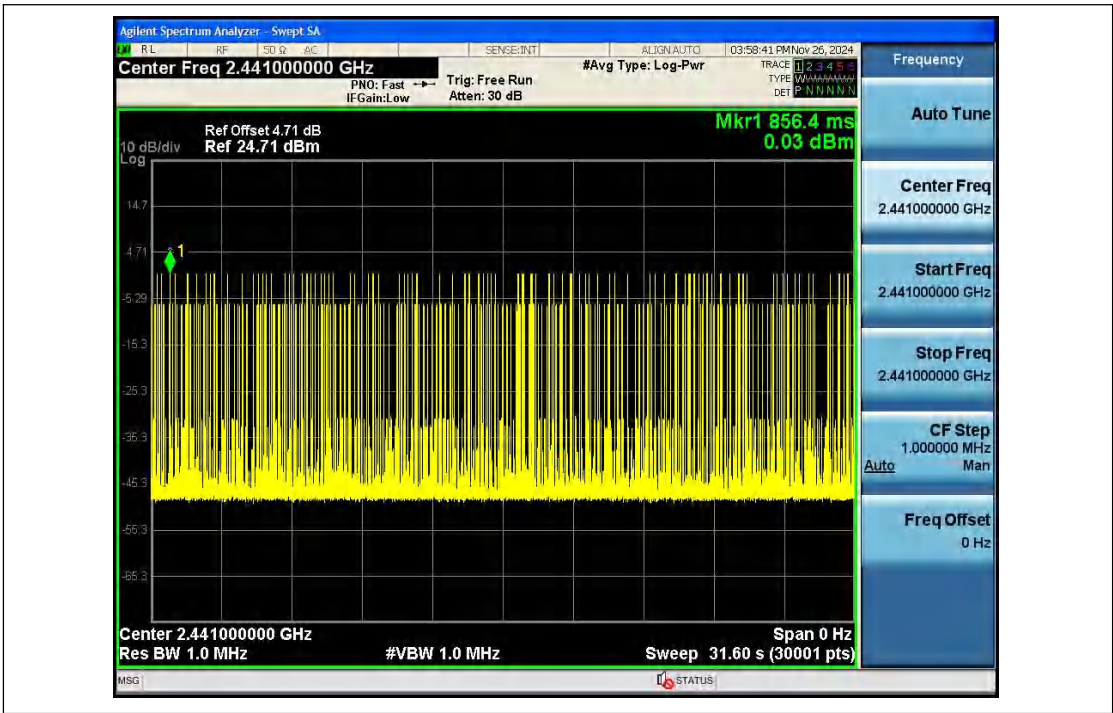
Dwell_Time_(Hopping)_NVNT_ANT1_3-DH5_2441_00_One_Burst_Time



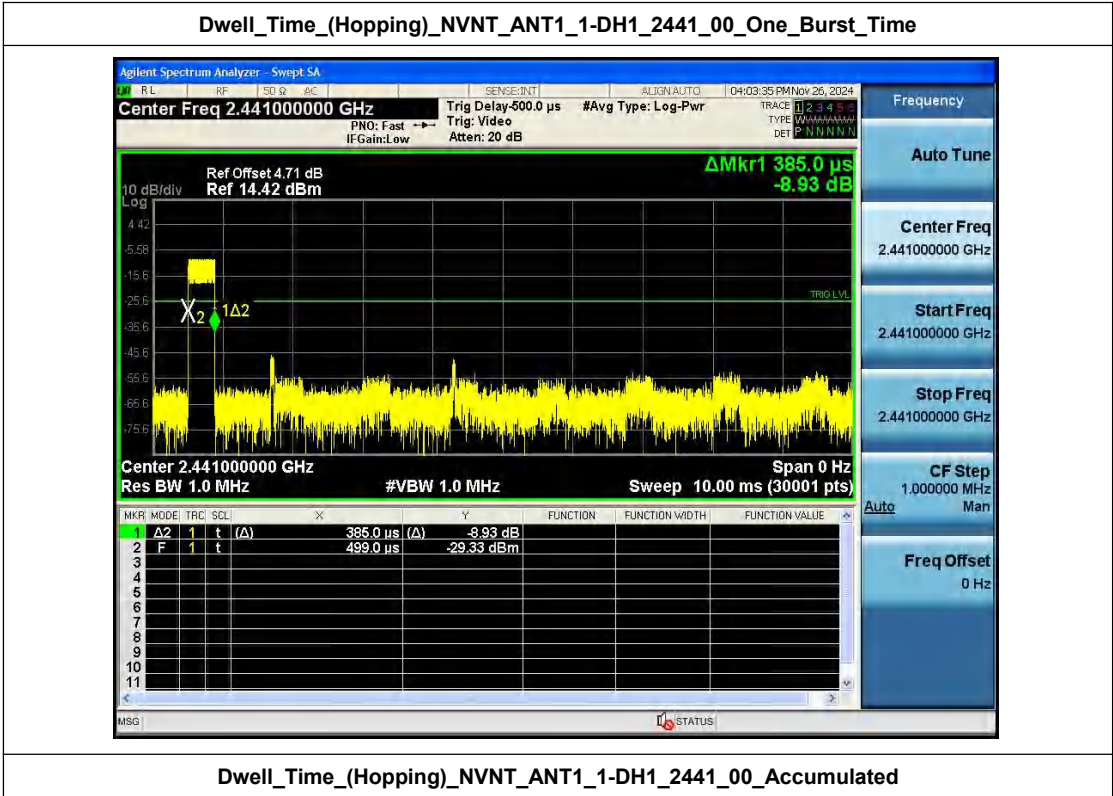
MARK	MODE	TRIG	SOL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	Δ2	1	t	(Δ)	2.895 ms	(Δ)	2.03 dB	
2	F	1	t		499.0 μs		-23.94 dBm	
3								
4								
5								
6								
7								
8								
9								
10								
11								

Dwell_Time_(Hopping)_NVNT_ANT1_3-DH5_2441_00_Accumulated



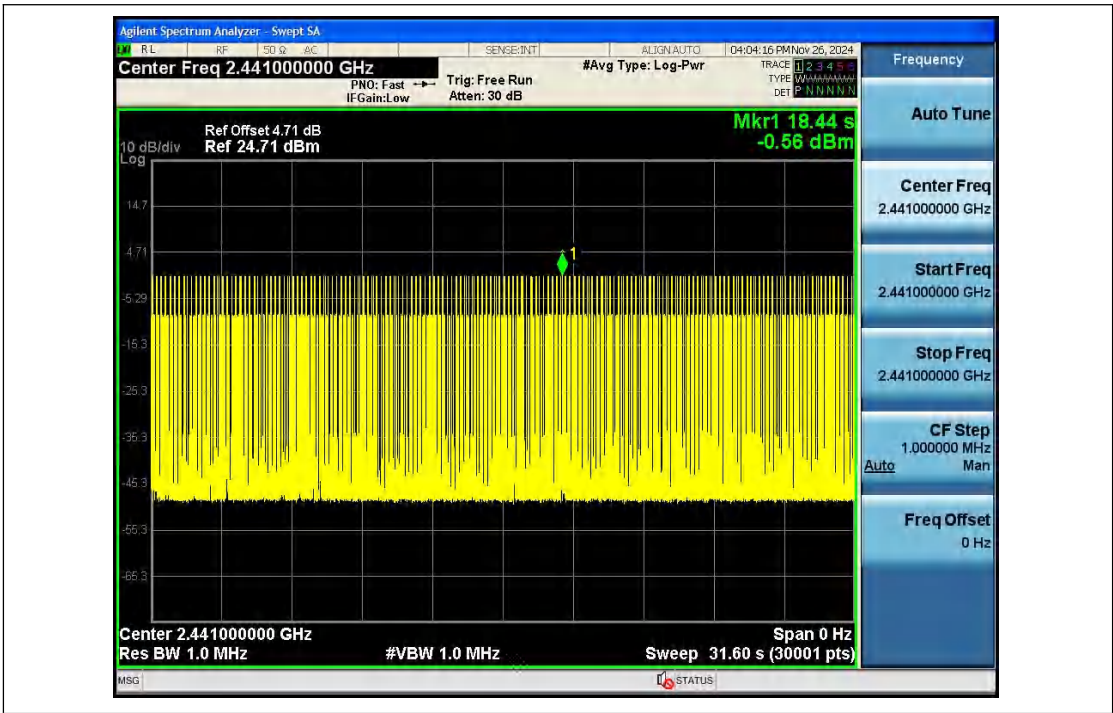


Dwell_Time_(Hopping)_NVNT_ANT1_1-DH1_2441_00_One_Burst_Time

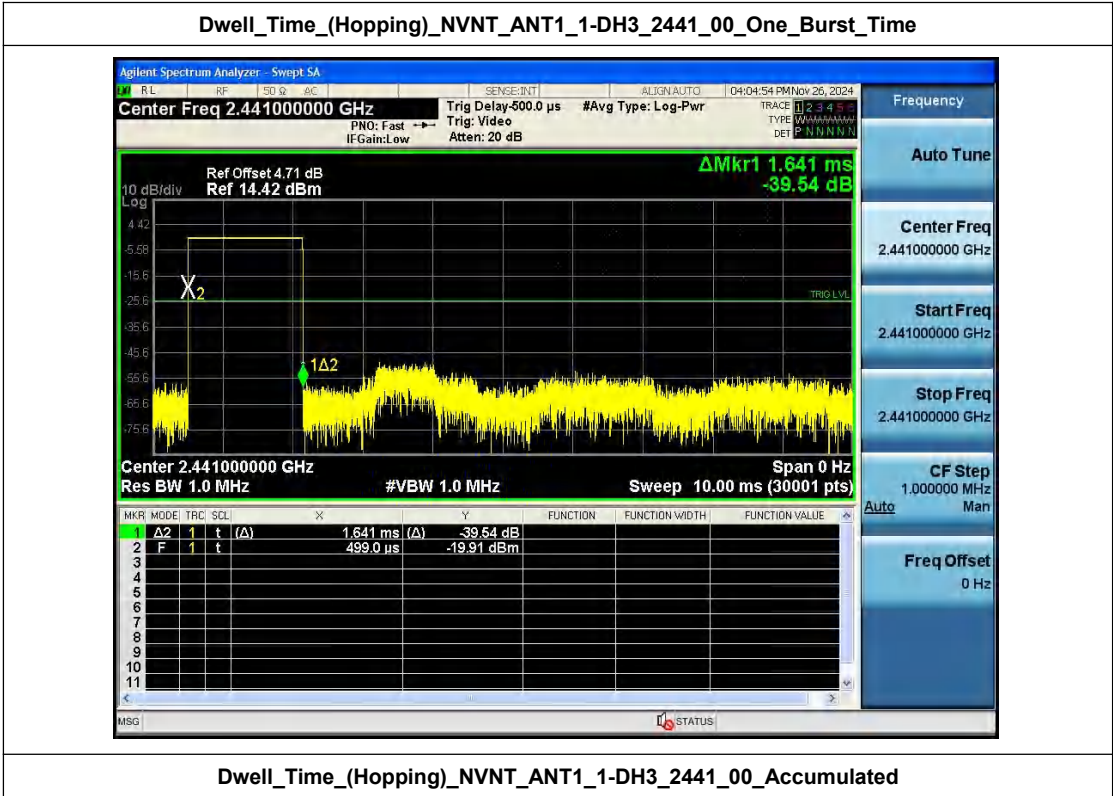


Dwell_Time_(Hopping)_NVNT_ANT1_1-DH1_2441_00_Accumulated



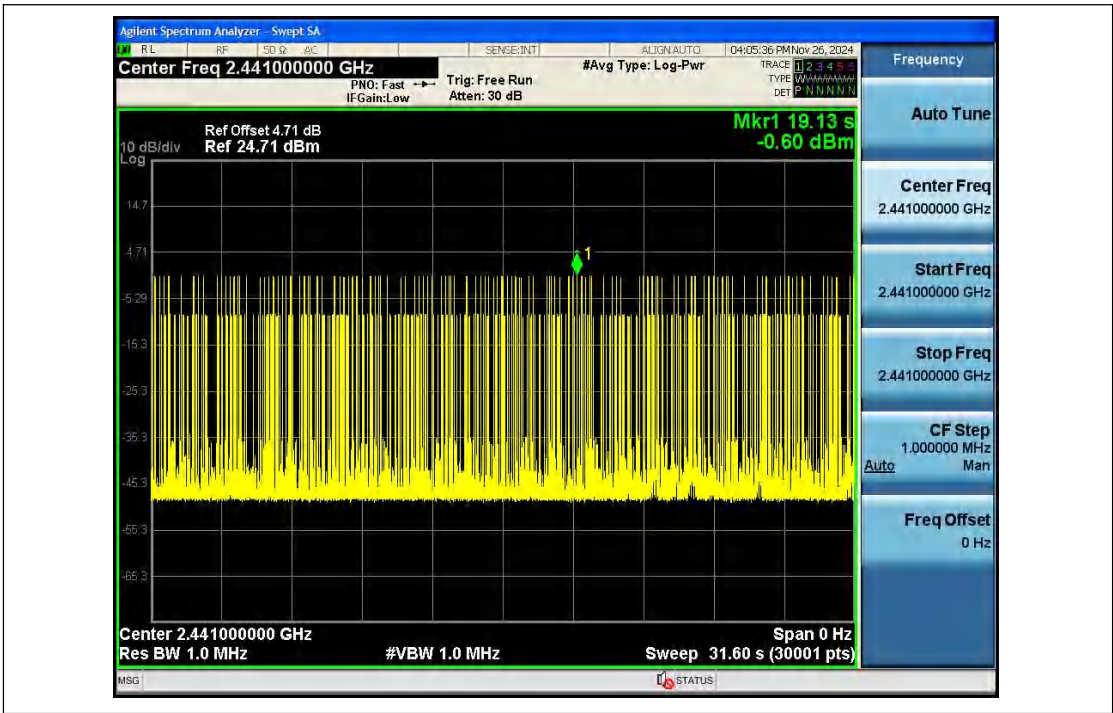


Dwell_Time_(Hopping)_NVNT_ANT1_1-DH3_2441_00_One_Burst_Time

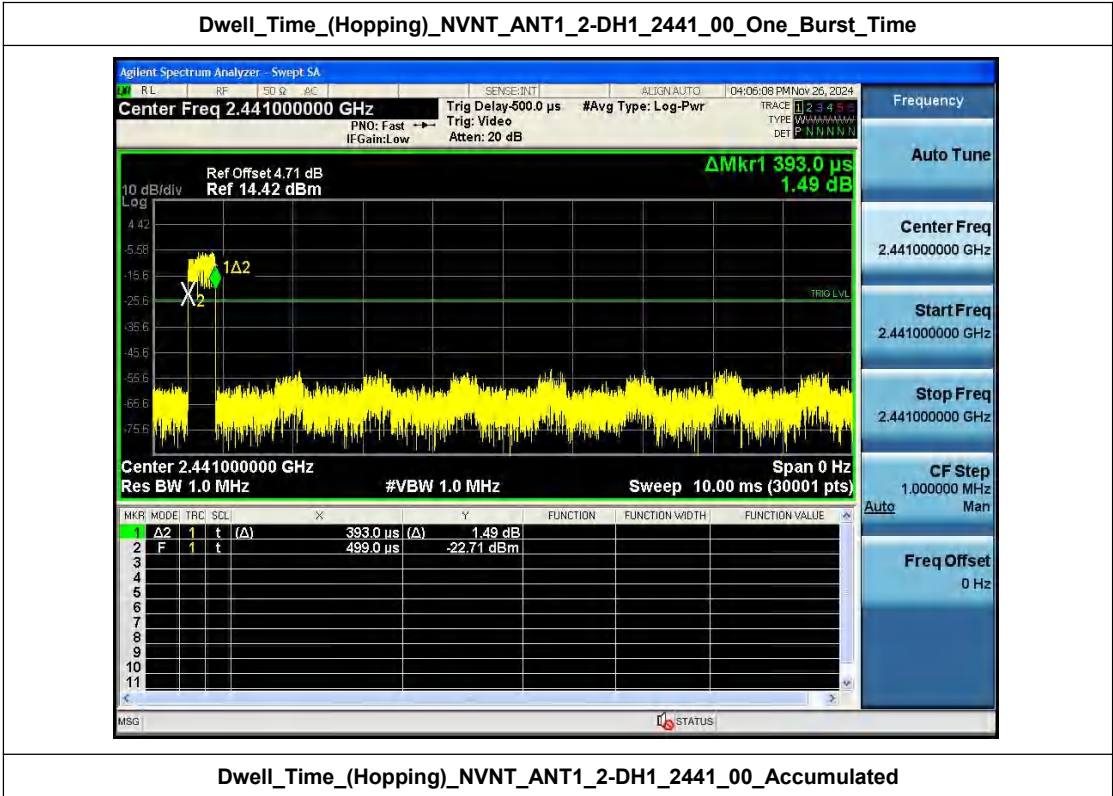


Dwell_Time_(Hopping)_NVNT_ANT1_1-DH3_2441_00_Accumulated



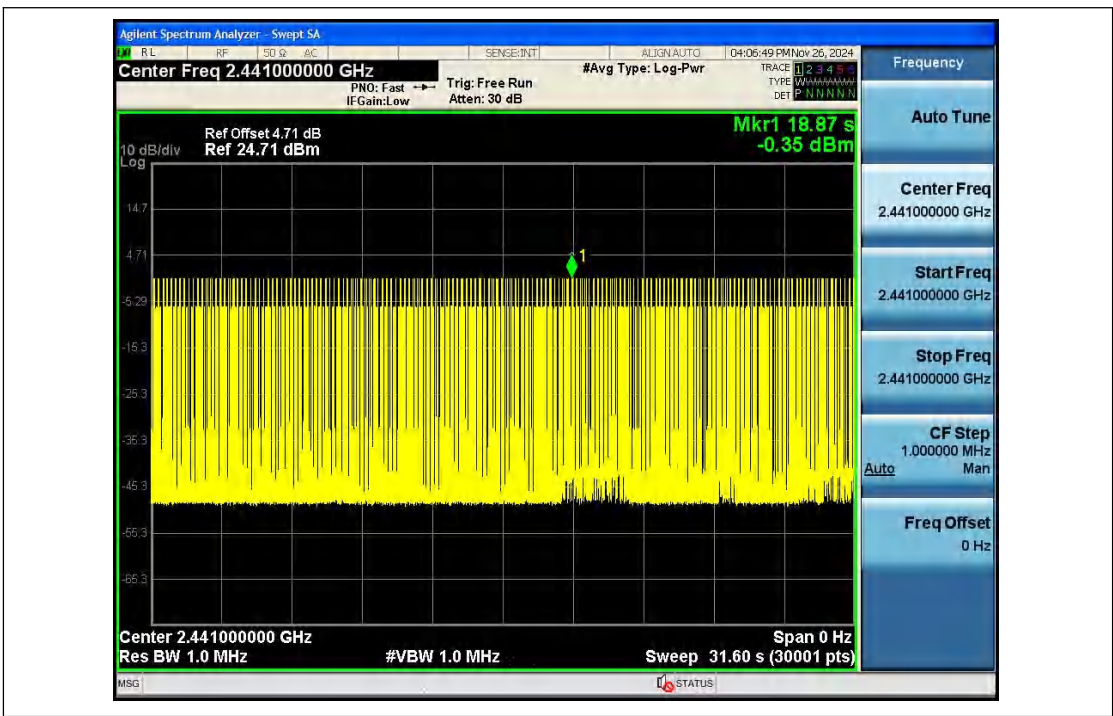


Dwell_Time_(Hopping)_NVNT_ANT1_2-DH1_2441_00_One_Burst_Time

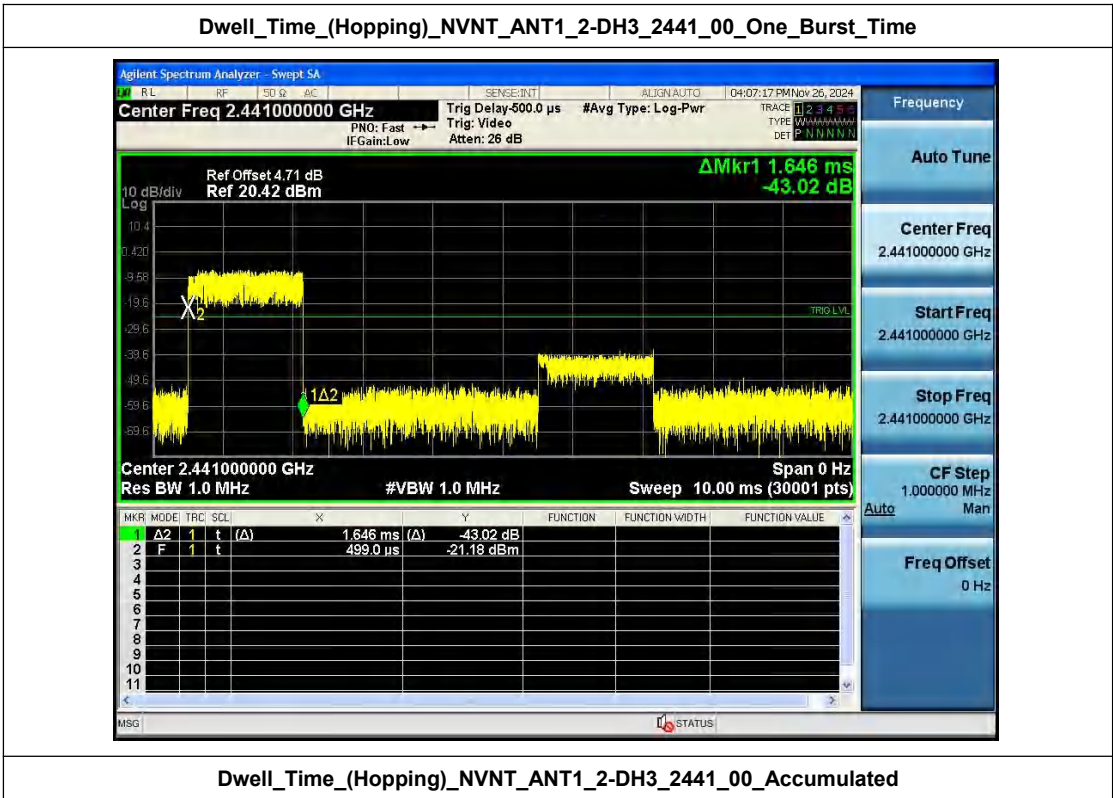


Dwell_Time_(Hopping)_NVNT_ANT1_2-DH1_2441_00_Accumulated



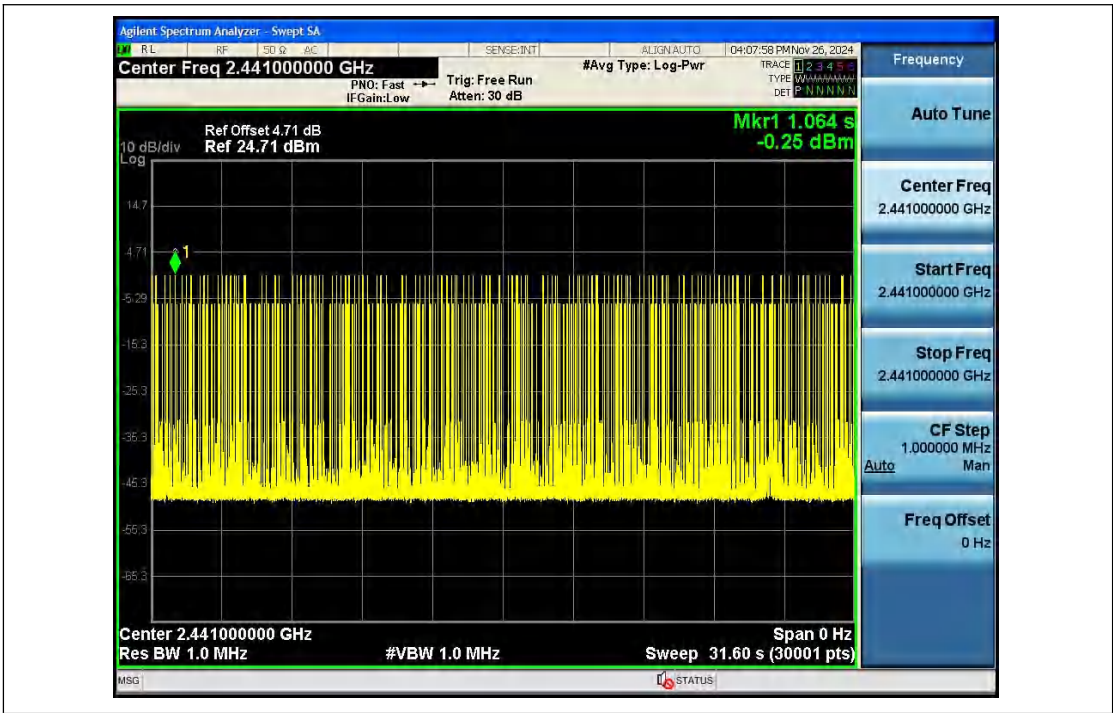


Dwell_Time_(Hopping)_NVNT_ANT1_2-DH3_2441_00_One_Burst_Time

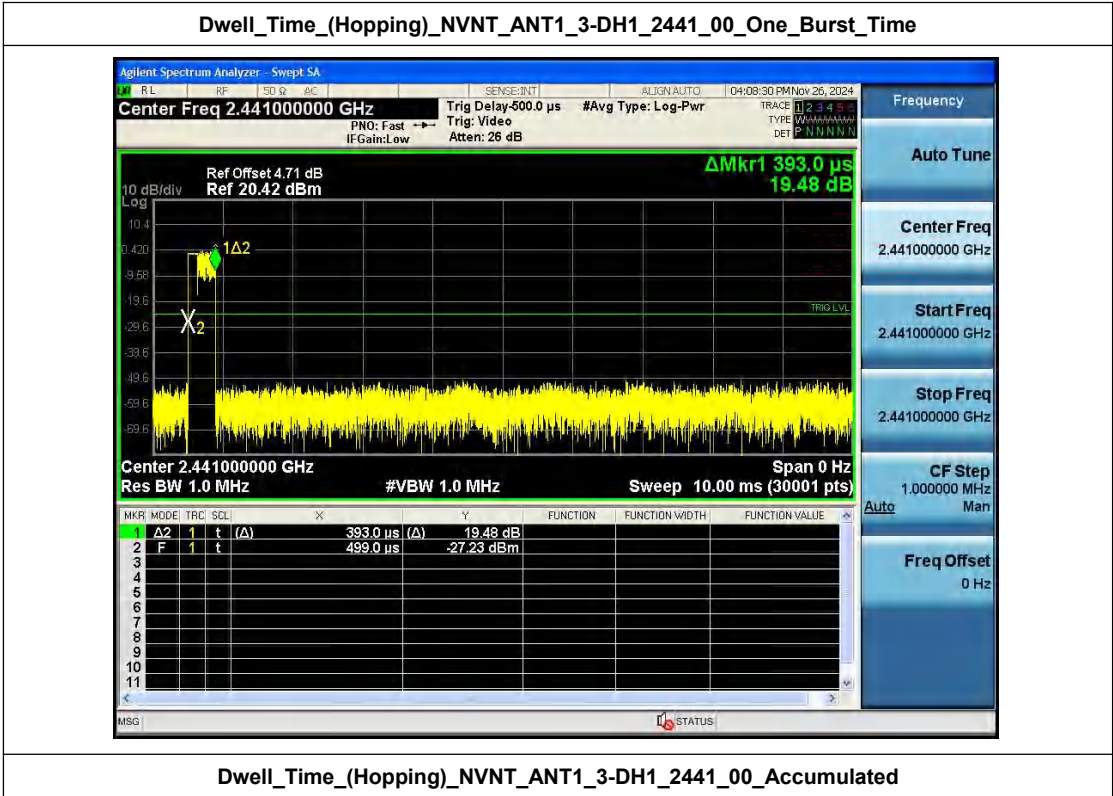


Dwell_Time_(Hopping)_NVNT_ANT1_2-DH3_2441_00_Accumulated



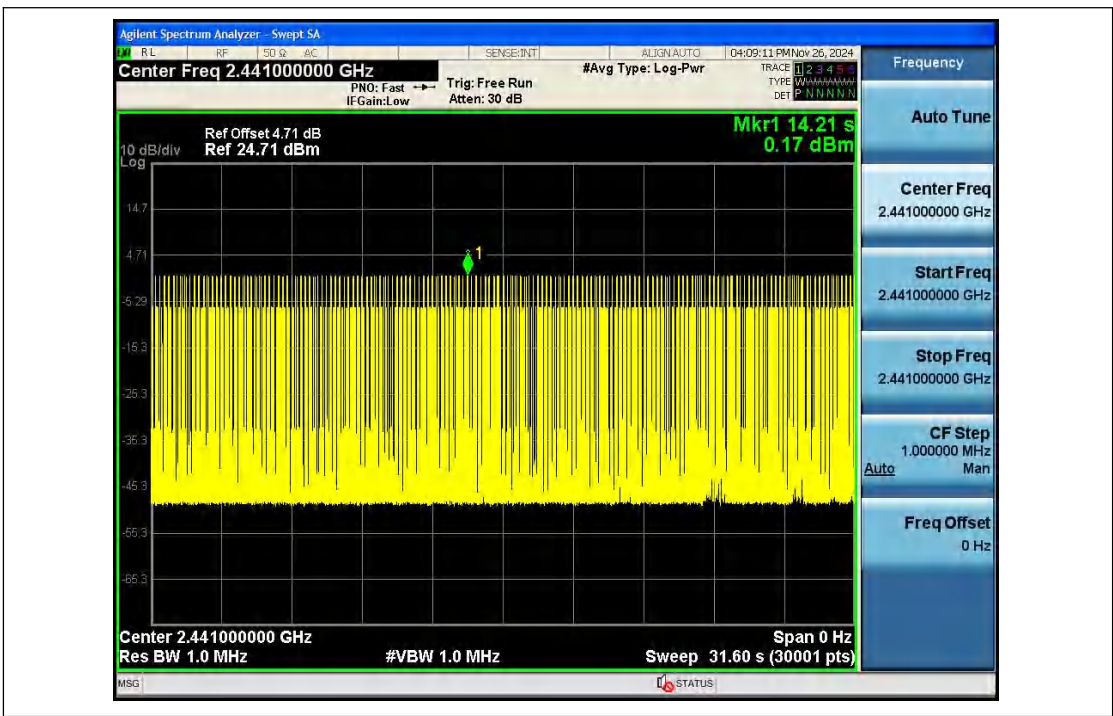


Dwell_Time_(Hopping)_NVNT_ANT1_3-DH1_2441_00_One_Burst_Time

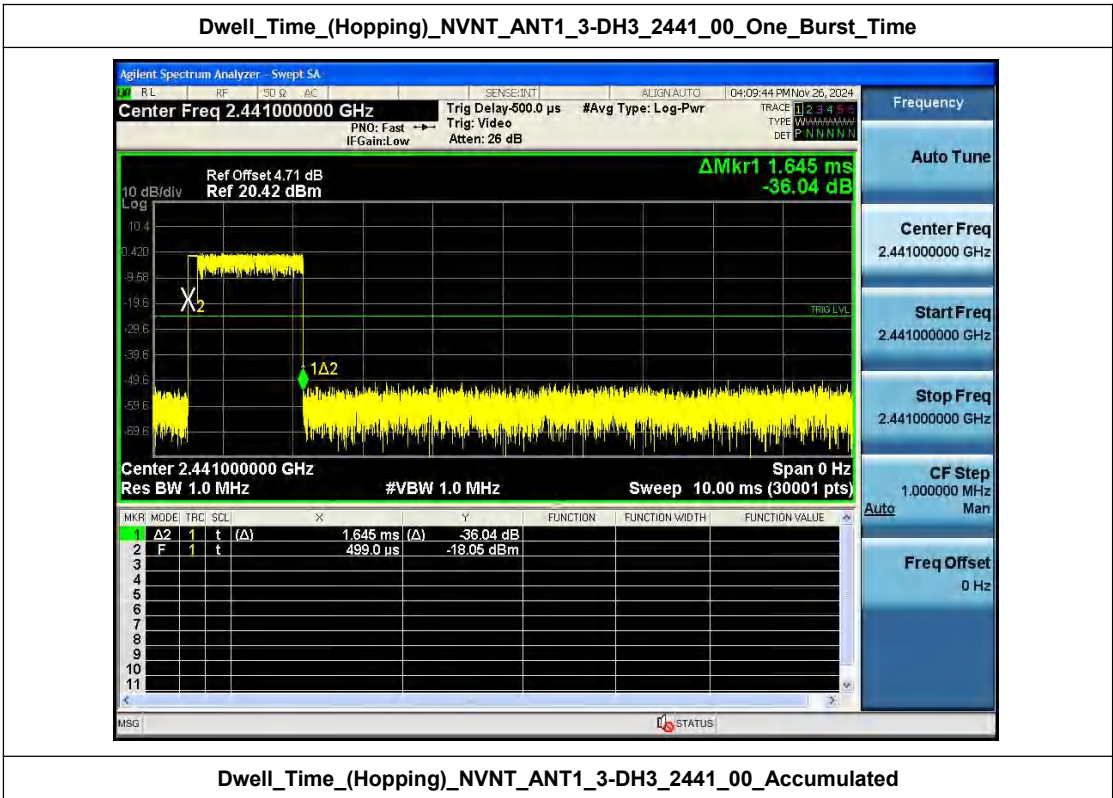


Dwell_Time_(Hopping)_NVNT_ANT1_3-DH1_2441_00_Accumulated



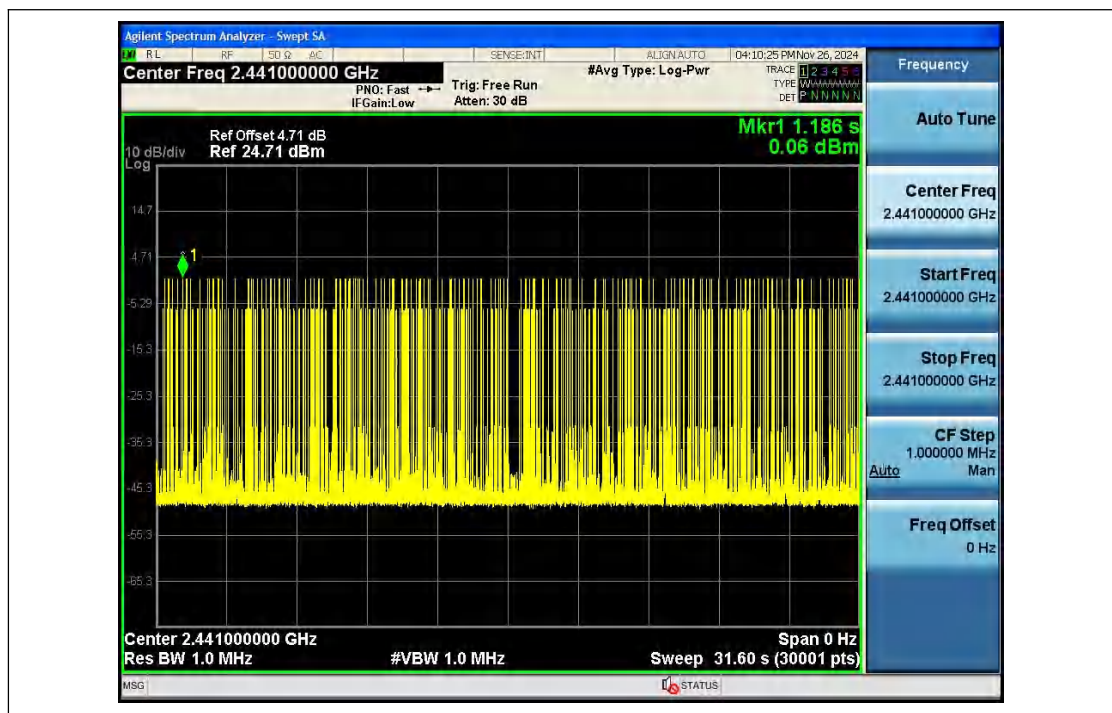


Dwell_Time_(Hopping)_NVNT_ANT1_3-DH3_2441_00_One_Burst_Time



Dwell_Time_(Hopping)_NVNT_ANT1_3-DH3_2441_00_Accumulated





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