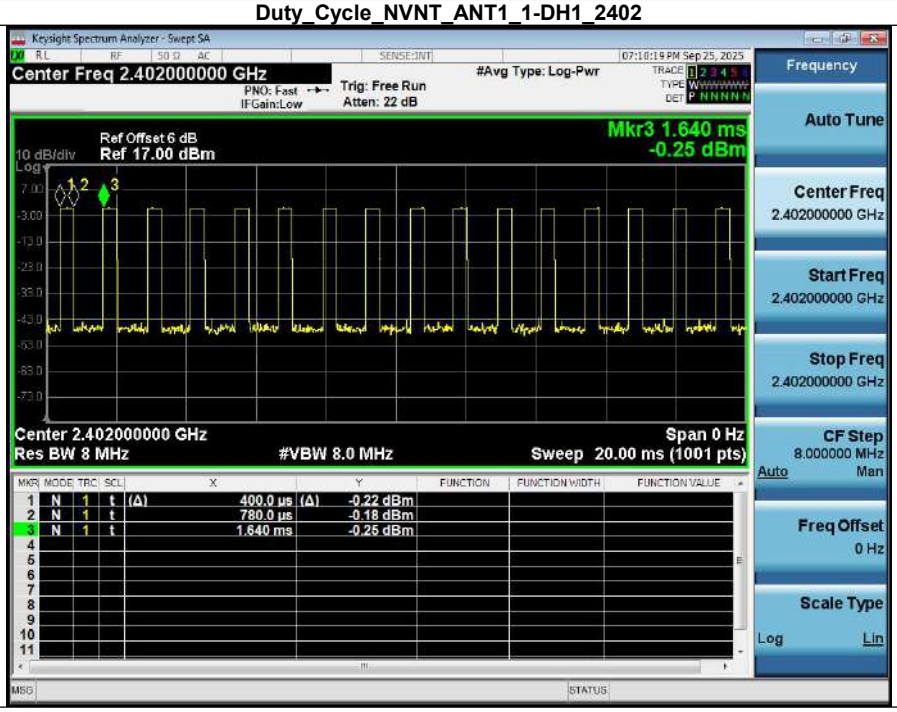
Report No.: NCT25039693E1-1
FCC ID:2BKTL-ENCORE3
FCC_BT (Part15.247) Test Data

Table of Contents

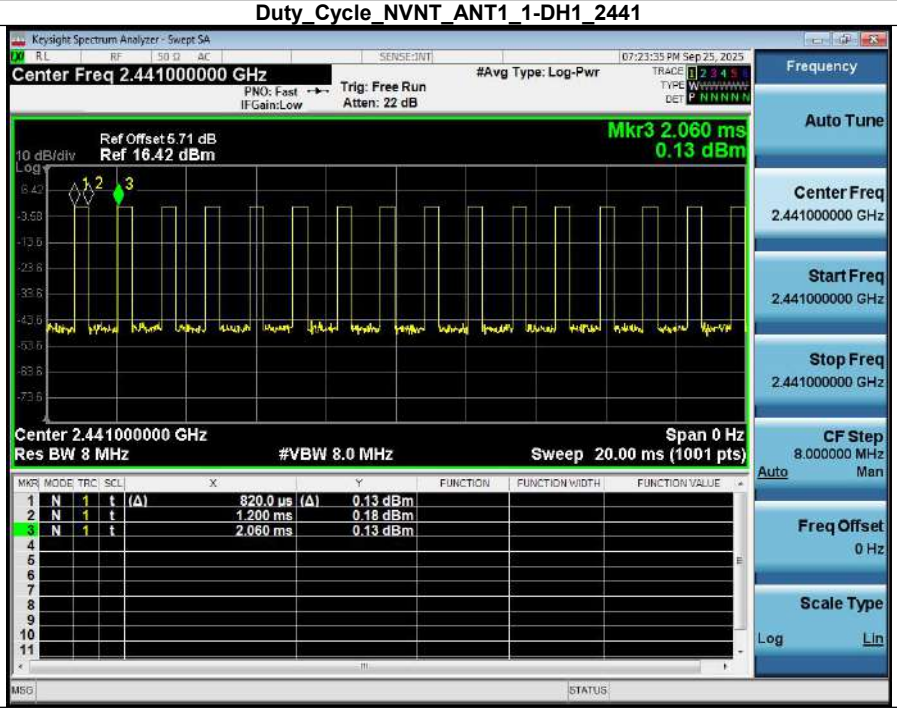
1. Duty Cycle

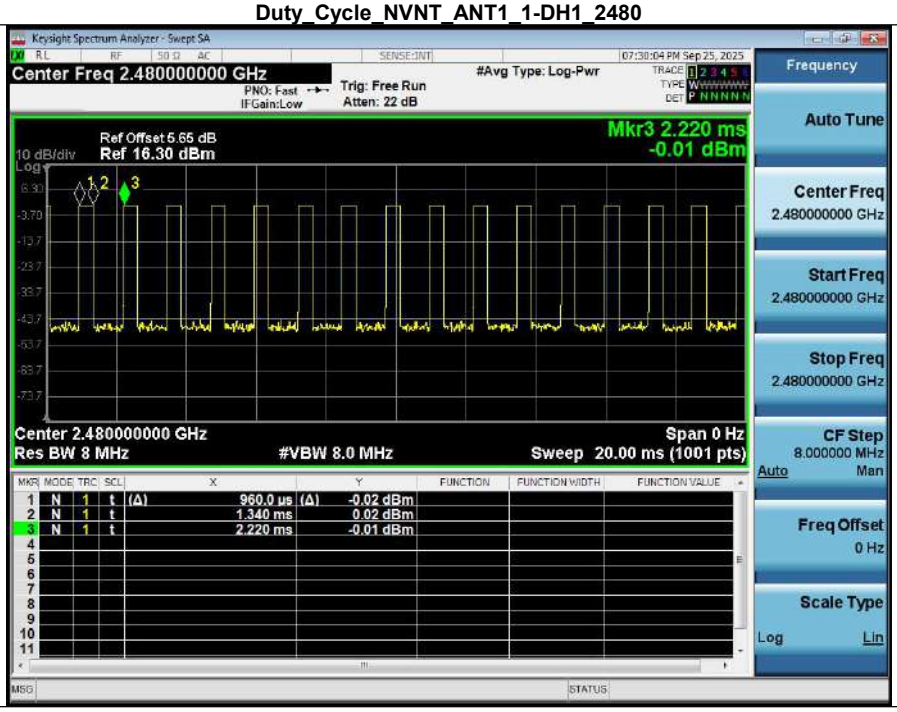
Condition	Antenna	Rate	Frequency (MHz)	Dutycycle(%)	Duty_factor
NVNT	ANT1	1-DH1	2402.00	30.65	5.14
NVNT	ANT1	1-DH1	2441.00	30.65	5.14
NVNT	ANT1	1-DH1	2480.00	31.75	4.98
NVNT	ANT1	2-DH1	2402.00	31.75	4.98
NVNT	ANT1	2-DH1	2441.00	31.75	4.98
NVNT	ANT1	2-DH1	2480.00	31.75	4.98
NVNT	ANT1	3-DH1	2402.00	31.75	4.98
NVNT	ANT1	3-DH1	2441.00	32.26	4.91
NVNT	ANT1	3-DH1	2480.00	31.75	4.98

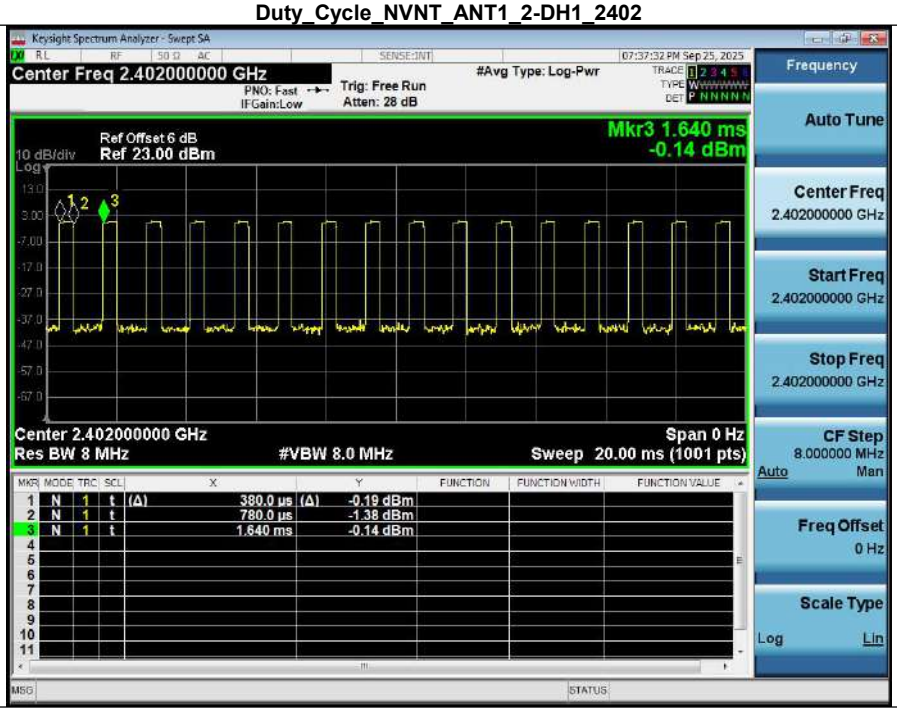
Duty_Cycle_NVNT_ANT1_1-DH1_2402



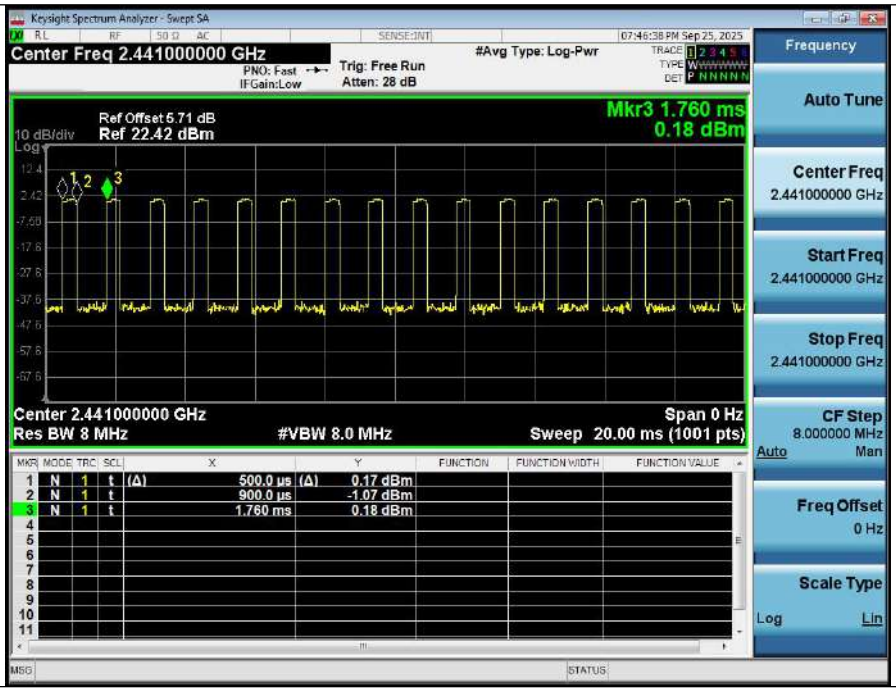
Duty_Cycle_NVNT_ANT1_1-DH1_2441



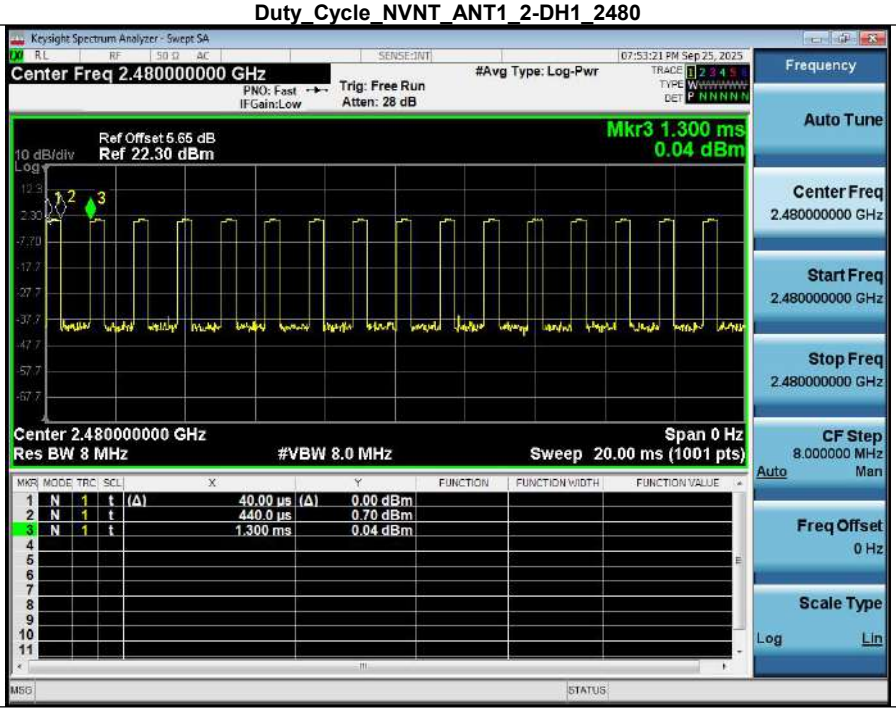
Duty_Cycle_NVNT_ANT1_1-DH1_2480


Duty_Cycle_NVNT_ANT1_2-DH1_2402


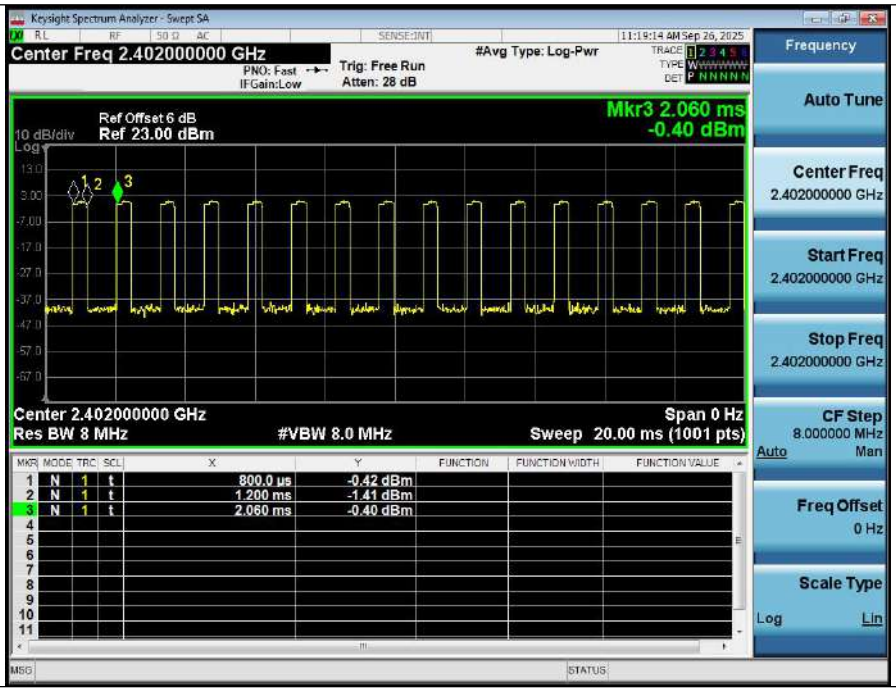
Duty_Cycle_NVNT_ANT1_2-DH1_2441



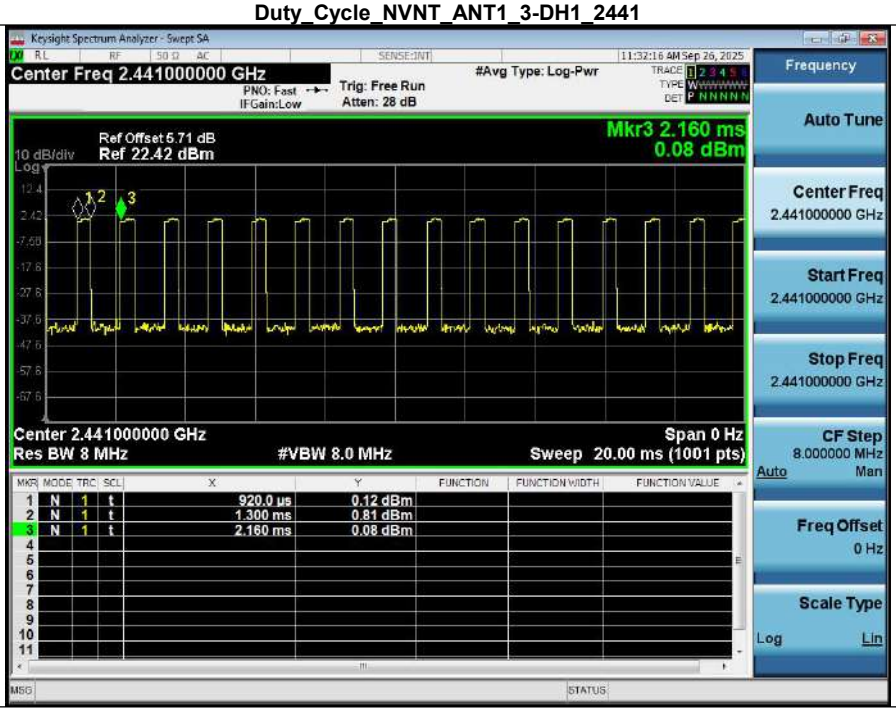
Duty_Cycle_NVNT_ANT1_2-DH1_2480



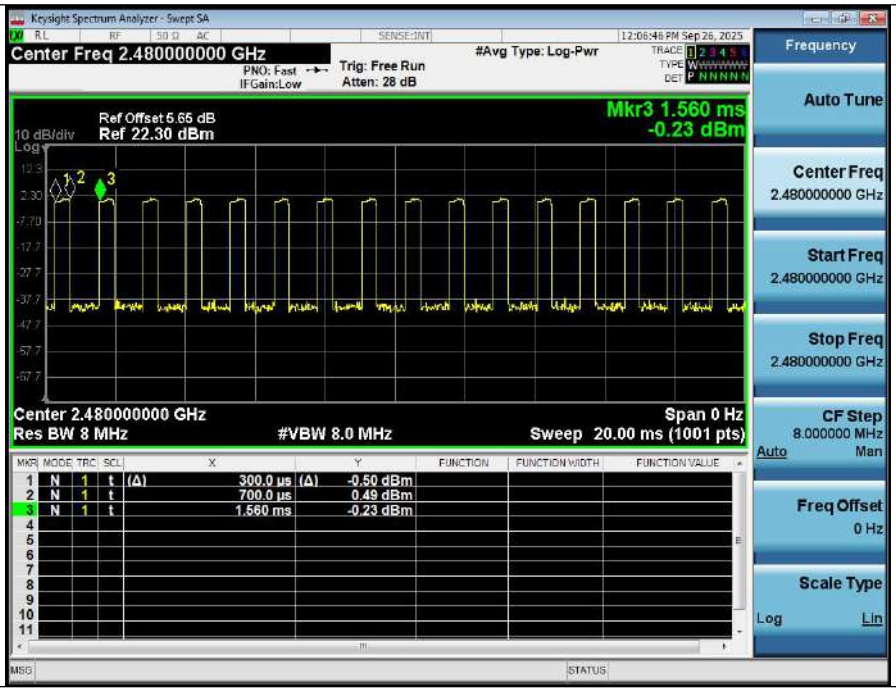
Duty_Cycle_NVNT_ANT1_3-DH1_2402



Duty_Cycle_NVNT_ANT1_3-DH1_2441



Duty_Cycle_NVNT_ANT1_3-DH1_2480


Keysight Spectrum Analyzer - Swept SA
Center Freq 2.480000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 28 dB
#Avg Type: Log-Pwr
12:06:46 PM Sep 26, 2025
Ref Offset 5.65 dB
10 dB/div
Ref 22.30 dBm
Mkr3 1.560 ms
-0.23 dBm
Center 2.480000000 GHz
Res BW 8 MHz
#VBW 8.0 MHz
Span 0 Hz
Sweep 20.00 ms (1001 pts)
1 N 1 t (Δ) 300.0 µs (Δ) -0.50 dBm
2 N 1 t 700.0 µs 0.49 dBm
3 N 1 t 1.560 ms -0.23 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
Scale Type
Log
Lin
MSG
STATUS

2. -20dB Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	-20dB BW(MHz)	if larger than CFS
NVNT	ANT1	1-DH1	2402.00	0.987	No
NVNT	ANT1	1-DH1	2441.00	0.938	No
NVNT	ANT1	1-DH1	2480.00	0.939	No
NVNT	ANT1	2-DH1	2402.00	1.280	Yes
NVNT	ANT1	2-DH1	2441.00	1.267	Yes
NVNT	ANT1	2-DH1	2480.00	1.258	Yes
NVNT	ANT1	3-DH1	2402.00	1.255	Yes
NVNT	ANT1	3-DH1	2441.00	1.254	Yes
NVNT	ANT1	3-DH1	2480.00	1.255	Yes

-20dB_Bandwidth_NVNT_ANT1_1-DH1_2402_00

-20dB_Bandwidth_NVNT_ANT1_1-DH1_2441_00

-20dB_Bandwidth_NVNT_ANT1_1-DH1_2480_00

-20dB_Bandwidth_NVNT_ANT1_2-DH1_2402_00

-20dB_Bandwidth_NVNT_ANT1_2-DH1_2441_00

-20dB_Bandwidth_NVNT_ANT1_2-DH1_2480_00

-20dB_Bandwidth_NVNT_ANT1_3-DH1_2402_00

-20dB_Bandwidth_NVNT_ANT1_3-DH1_2441_00

-20dB_Bandwidth_NVNT_ANT1_3-DH1_2480_00


Keysight Spectrum Analyzer - Occupied BW
Center Freq 2.480000000 GHz
Center Freq: 2.480000000 GHz
Trig: Free Run
Avg|Hold:>10/10
#Atten: 30 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
12:07:04 PM Sep 26, 2025
Frequency
Ref Offset 5.65 dB
10 dB/div
Ref 18.30 dBm
Log
8.30
-1.70
-11.7
-21.7
-31.7
-41.7
-51.7
-61.7
-71.7
Center 2.48 GHz
#Res BW 30 kHz
#VBW 100 kHz
Span 3 MHz
Sweep 3.2 ms
Occupied Bandwidth
1.1613 MHz
Total Power
6.71 dBm
Transmit Freq Error
37.170 kHz
% of OBW Power
99.00 %
x dB Bandwidth
1.255 MHz
x dB
-20.00 dB
Center Freq
2.480000000 GHz
CF Step
300.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

3. 99% Occupied Bandwidth

Condition	Antenna	Modulation	Frequency (MHz)	99%%BW(MHz)
NVNT	ANT1	1-DH1	2402.00	0.868
NVNT	ANT1	1-DH1	2441.00	0.875
NVNT	ANT1	1-DH1	2480.00	0.874
NVNT	ANT1	2-DH1	2402.00	1.180
NVNT	ANT1	2-DH1	2441.00	1.181
NVNT	ANT1	2-DH1	2480.00	1.177
NVNT	ANT1	3-DH1	2402.00	1.162
NVNT	ANT1	3-DH1	2441.00	1.164
NVNT	ANT1	3-DH1	2480.00	1.161

99%_Occupied_Bandwidth_NVNT_ANT1_1-DH1_2402_00

99%_Occupied_Bandwidth_NVNT_ANT1_1-DH1_2441_00

99%_Occupied_Bandwidth_NVNT_ANT1_1-DH1_2480_00

99%_Occupied_Bandwidth_NVNT_ANT1_2-DH1_2402_00

99%_Occupied_Bandwidth_NVNT_ANT1_2-DH1_2441_00

99%_Occupied_Bandwidth_NVNT_ANT1_2-DH1_2480_00

99%_Occupied_Bandwidth_NVNT_ANT1_3-DH1_2402_00

99%_Occupied_Bandwidth_NVNT_ANT1_3-DH1_2441_00

99%_Occupied_Bandwidth_NVNT_ANT1_3-DH1_2480_00


Keysight Spectrum Analyzer - Occupied BW
Center Freq 2.480000000 GHz
Center Freq: 2.480000000 GHz
Trig: Free Run
Avg|Hold: 10/10
#Atten: 30 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
12:07:23 PM Sep 26, 2025
Frequency
Ref Offset 5.65 dB
10 dB/div
Ref 18.30 dBm
Log
8.30
-1.70
-11.7
-21.7
-31.7
-41.7
-51.7
-61.7
-71.7
Center 2.48 GHz
#Res BW 30 kHz
#VBW 100 kHz
Span 3 MHz
Sweep 3.2 ms
Occupied Bandwidth
1.1614 MHz
Total Power
6.71 dBm
Transmit Freq Error
36.963 kHz
% of OBW Power
99.00 %
x dB Bandwidth
1.370 MHz
x dB
-26.00 dB
Center Freq
2.480000000 GHz
CF Step
300.000 kHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

4. Peak Output Power

Condition	Antenna	Modulation	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	1-DH1	2402.00	-0.21	0.95	1000	Pass
NVNT	ANT1	1-DH1	2441.00	0.18	1.04	1000	Pass
NVNT	ANT1	1-DH1	2480.00	-0.02	1.00	1000	Pass
NVNT	ANT1	2-DH1	2402.00	0.71	1.18	125	Pass
NVNT	ANT1	2-DH1	2441.00	1.01	1.26	125	Pass
NVNT	ANT1	2-DH1	2480.00	0.82	1.21	125	Pass
NVNT	ANT1	3-DH1	2402.00	1.00	1.26	125	Pass
NVNT	ANT1	3-DH1	2441.00	1.49	1.41	125	Pass
NVNT	ANT1	3-DH1	2480.00	1.15	1.30	125	Pass

Peak_Output_Power_NVNT_ANT1_1-DH1_2402_00

Peak_Output_Power_NVNT_ANT1_1-DH1_2441_00

Peak_Output_Power_NVNT_ANT1_1-DH1_2480_00


Peak_Output_Power_NVNT_ANT1_2-DH1_2402_00


Peak_Output_Power_NVNT_ANT1_2-DH1_2441_00

Peak_Output_Power_NVNT_ANT1_2-DH1_2480_00

Peak_Output_Power_NVNT_ANT1_3-DH1_2402_00

Peak_Output_Power_NVNT_ANT1_3-DH1_2441_00

Peak_Output_Power_NVNT_ANT1_3-DH1_2480_00

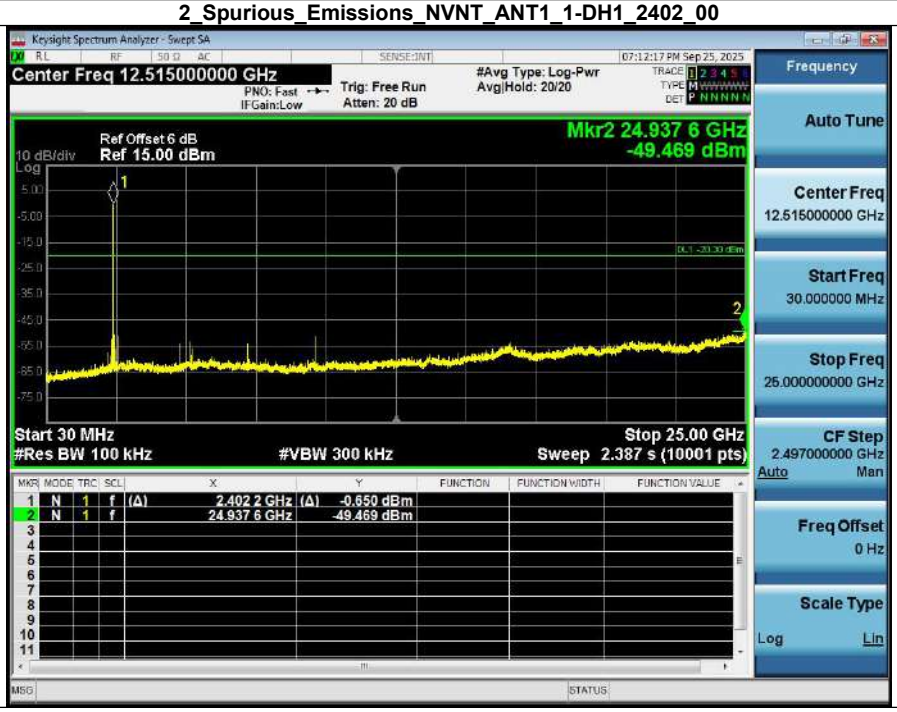

Keysight Spectrum Analyzer - Swept SA
Center Freq 2.480000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 22 dB
#Avg Type: Log-Pwr
Avg|Hold:>10/10
12:07:42 PM Sep 26, 2025
Ref Offset 5.65 dB
10 dB/div
Log
Ref 16.30 dBm
Mkr1 2.480 035 GHz
1.151 dBm
Center 2.480000 GHz
#Res BW 3.0 MHz
#VBW 8.0 MHz
Span 7.000 MHz
Sweep 1.000 ms (1001 pts)
Frequency
Auto Tune
Center Freq
2.480000000 GHz
Start Freq
2.476500000 GHz
Stop Freq
2.483500000 GHz
CF Step
700.000 kHz
Auto
Man
Freq Offset
0 Hz
Scale Type
Log
Lin
MSG
STATUS

5. Spurious Emissions

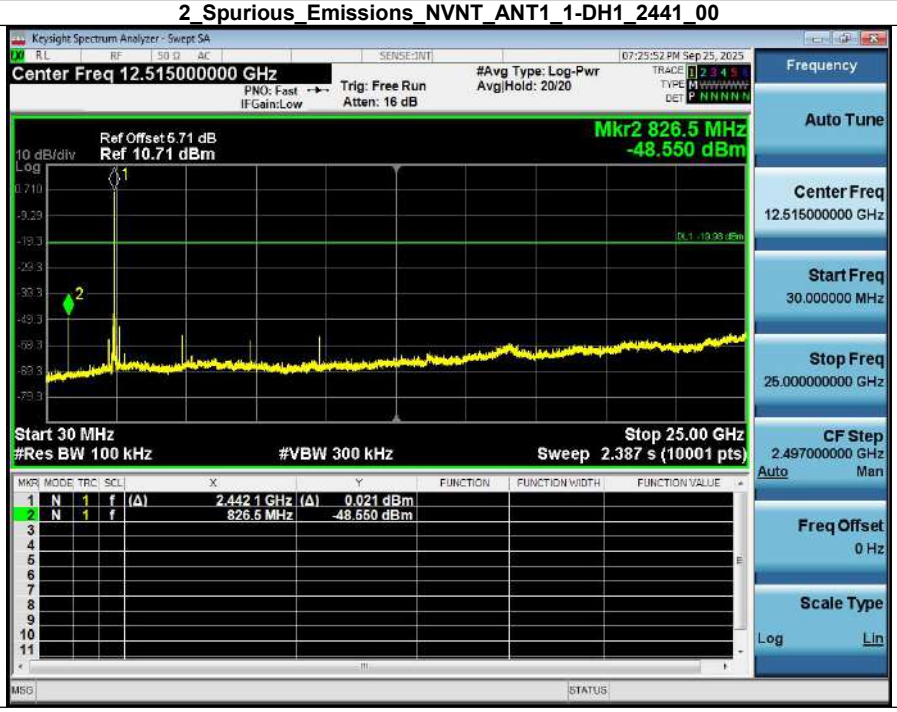
Condition	Antenna	Modulation	TX Mode	Ref_level(dBm)	Spurious MAX.Value(dBm)	Limit	Result
NVNT	ANT1	1-DH1	2402.00	-0.298	-49.469	-20.298	Pass
NVNT	ANT1	1-DH1	2441.00	0.025	-48.550	-19.975	Pass
NVNT	ANT1	1-DH1	2480.00	-0.149	-49.054	-20.149	Pass
NVNT	ANT1	2-DH1	2402.00	-0.316	-41.022	-20.316	Pass
NVNT	ANT1	2-DH1	2441.00	0.045	-50.989	-19.955	Pass
NVNT	ANT1	2-DH1	2480.00	-0.130	-48.036	-20.130	Pass
NVNT	ANT1	3-DH1	2402.00	-0.530	-51.070	-20.530	Pass
NVNT	ANT1	3-DH1	2441.00	-0.026	-53.768	-20.026	Pass
NVNT	ANT1	3-DH1	2480.00	-0.354	-48.704	-20.354	Pass

1_Reference_Level_NVNT_ANT1_1-DH1_2402_00

2_Spurious_Emissions_NVNT_ANT1_1-DH1_2402_00

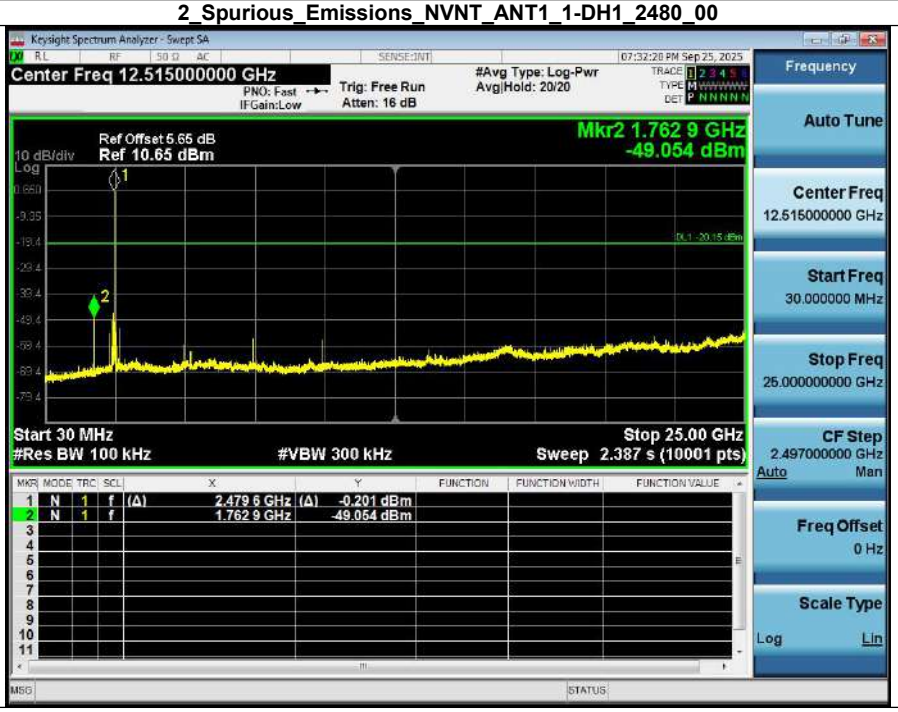


1_Reference_Level_NVNT_ANT1_1-DH1_2441_00

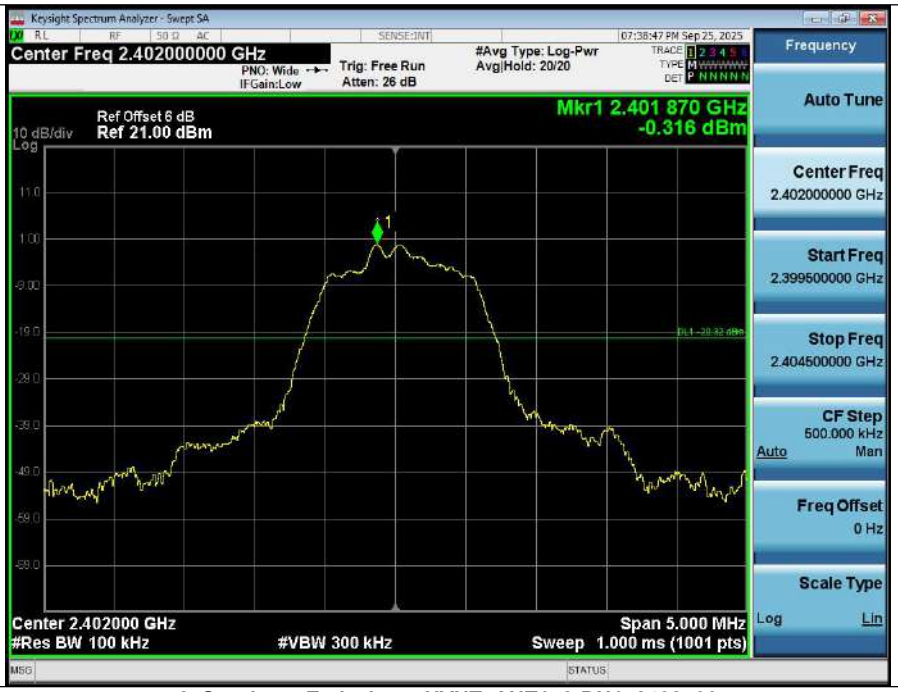
2_Spurious_Emissions_NVNT_ANT1_1-DH1_2441_00


1_Reference_Level_NVNT_ANT1_1-DH1_2480_00

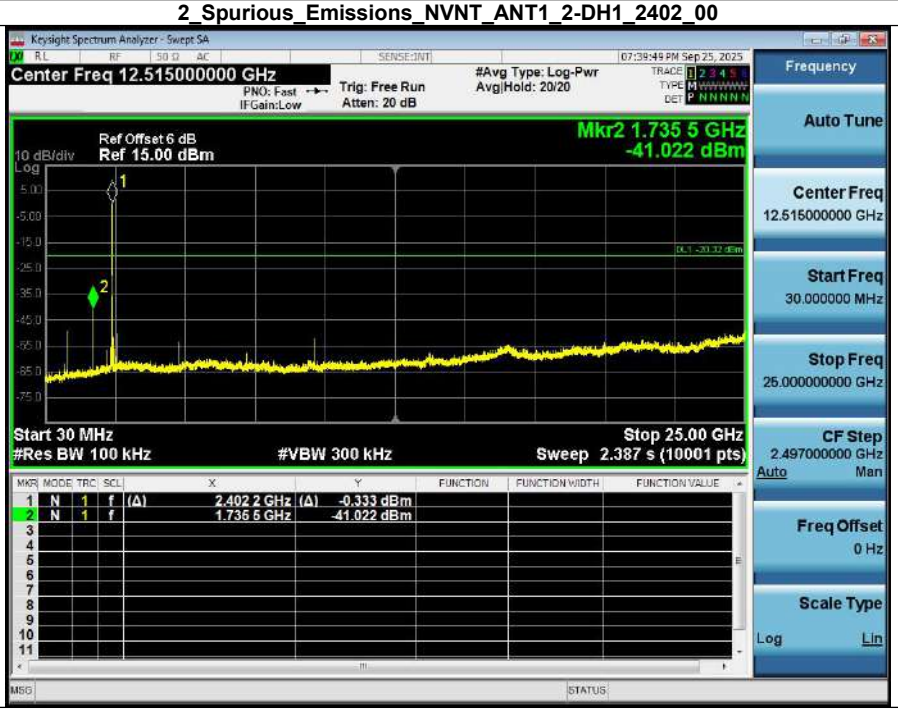
2_Spurious_Emissions_NVNT_ANT1_1-DH1_2480_00



1_Reference_Level_NVNT_ANT1_2-DH1_2402_00

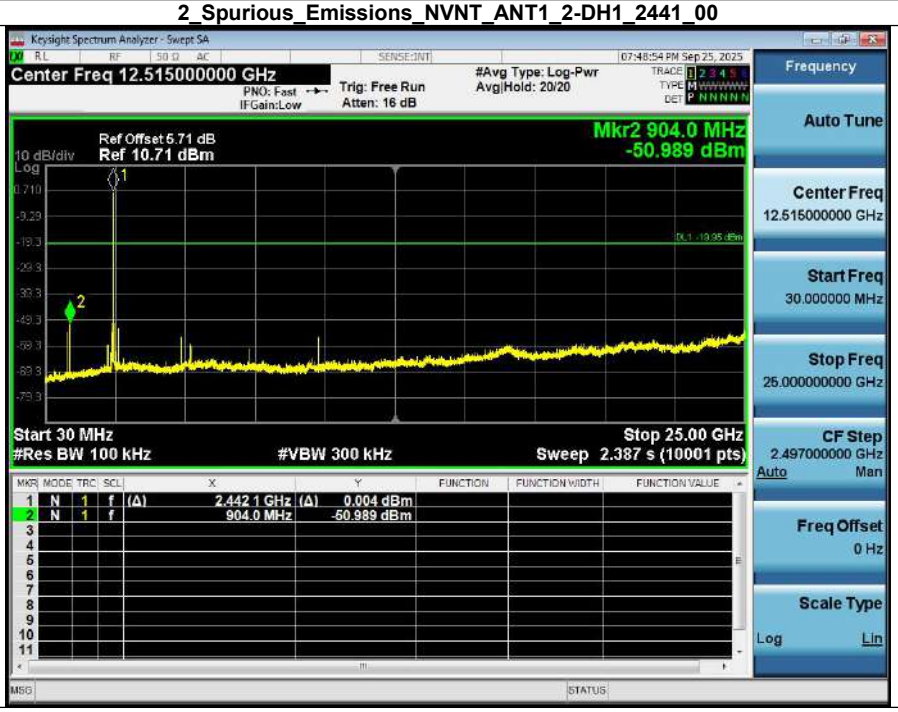


2_Spurious_Emissions_NVNT_ANT1_2-DH1_2402_00



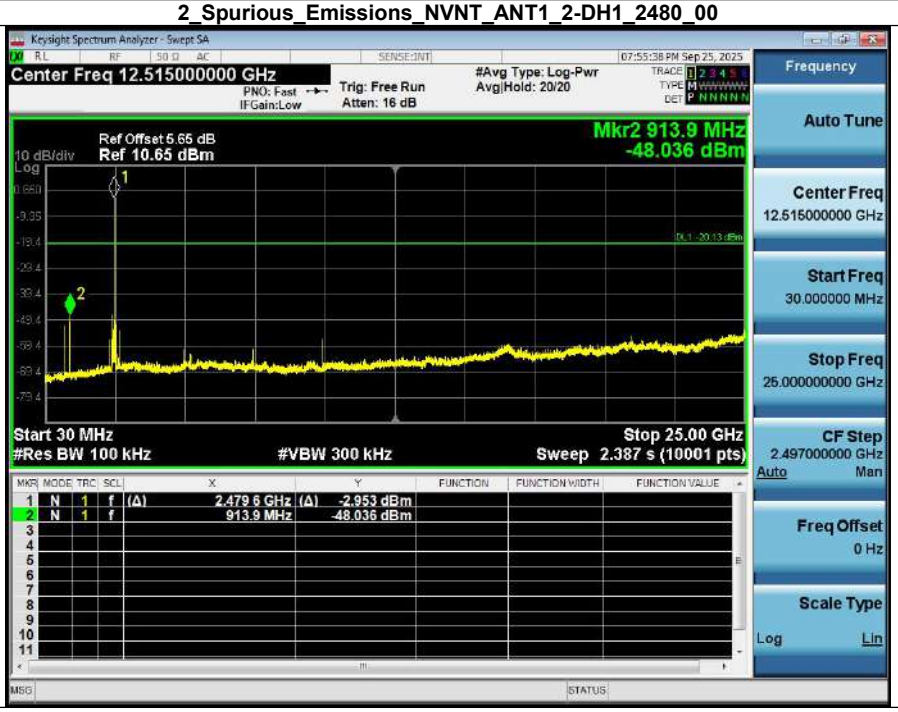
1_Reference_Level_NVNT_ANT1_2-DH1_2441_00

2_Spurious_Emissions_NVNT_ANT1_2-DH1_2441_00

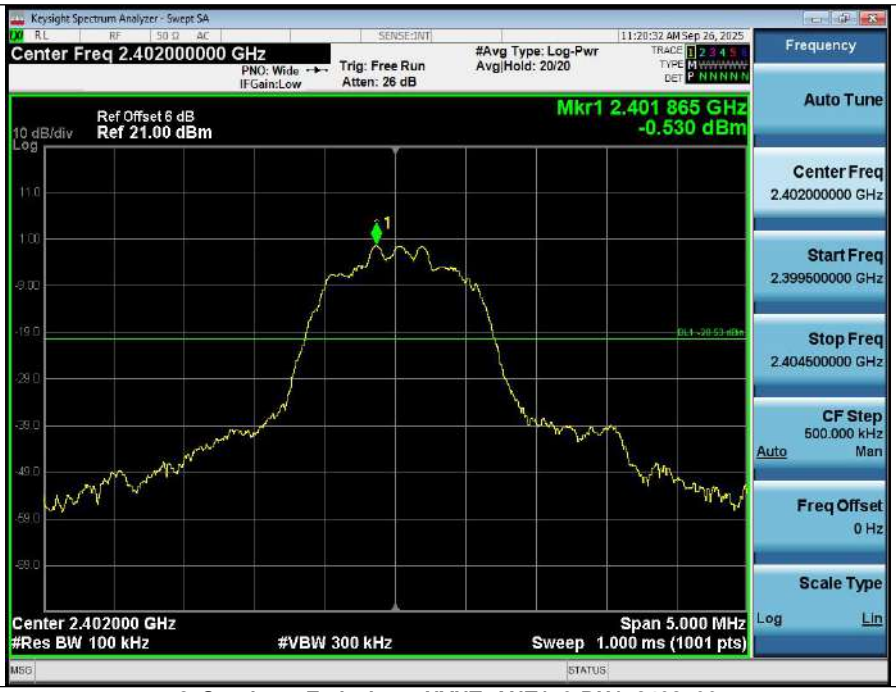


1_Reference_Level_NVNT_ANT1_2-DH1_2480_00

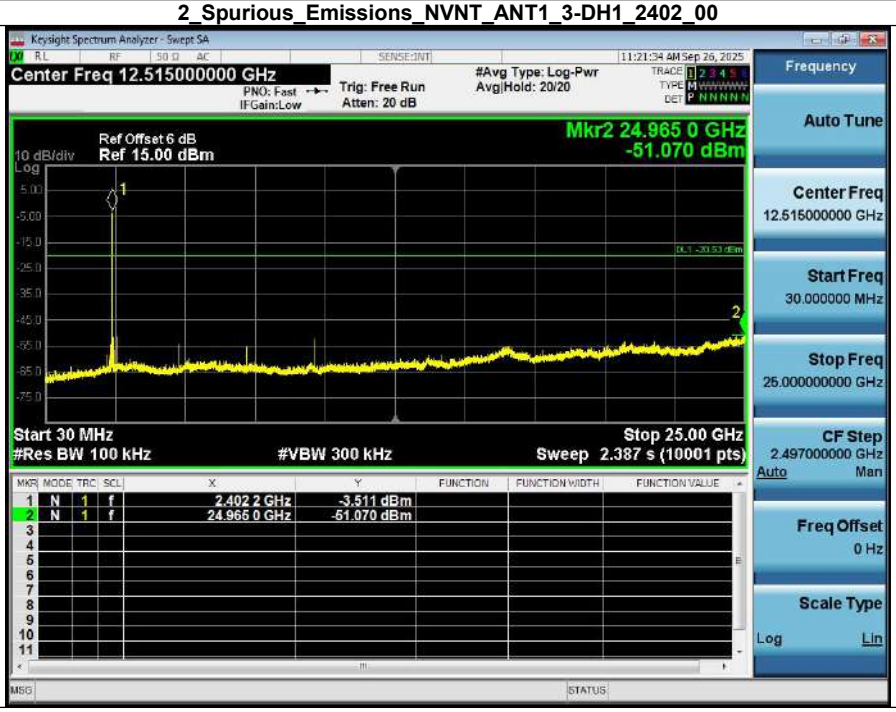
2_Spurious_Emissions_NVNT_ANT1_2-DH1_2480_00



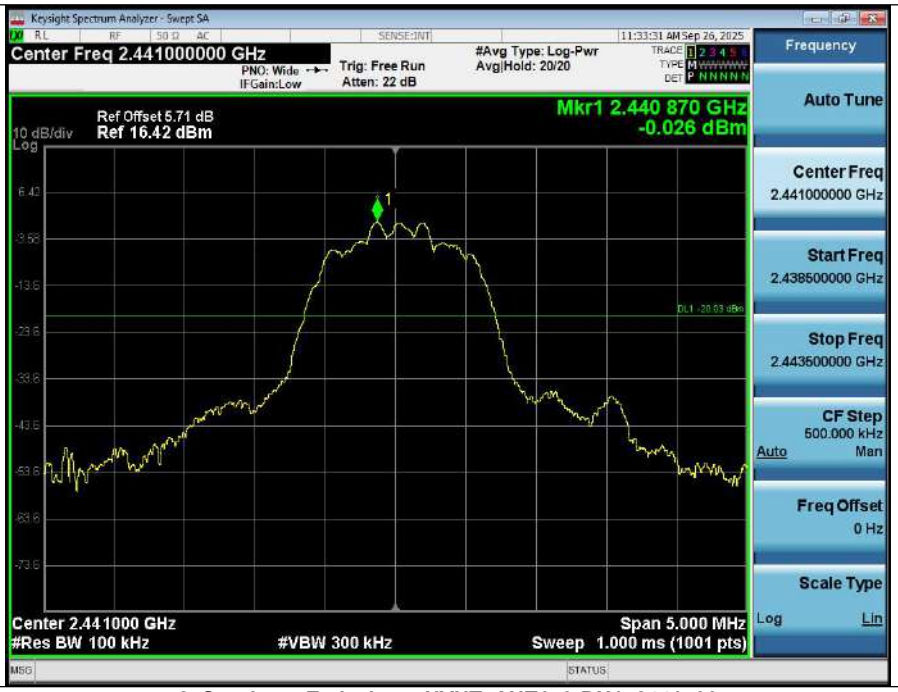
1_Reference_Level_NVNT_ANT1_3-DH1_2402_00



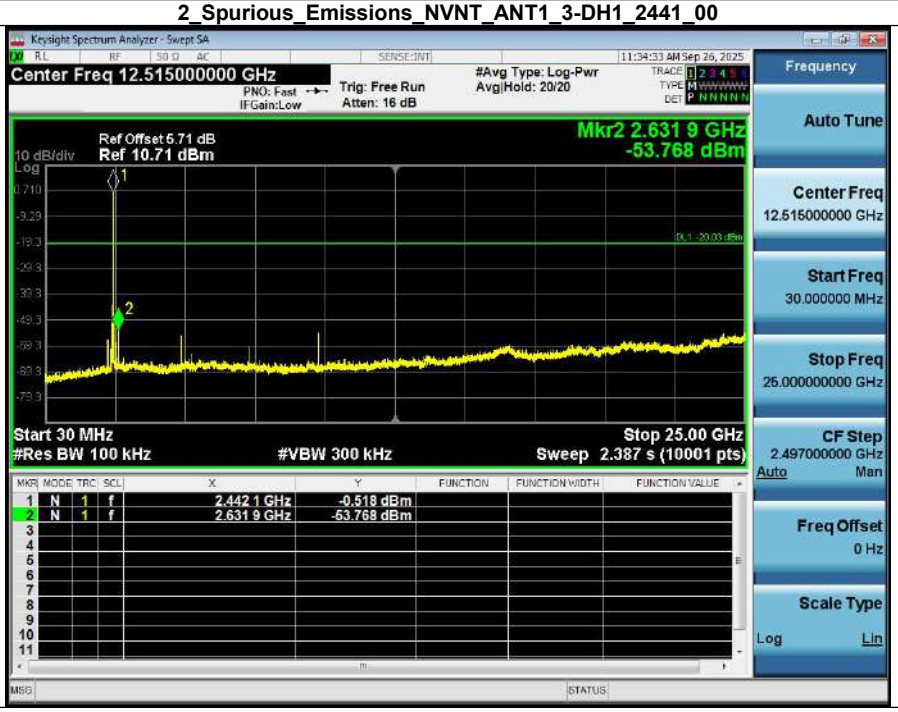
2_Spurious_Emissions_NVNT_ANT1_3-DH1_2402_00



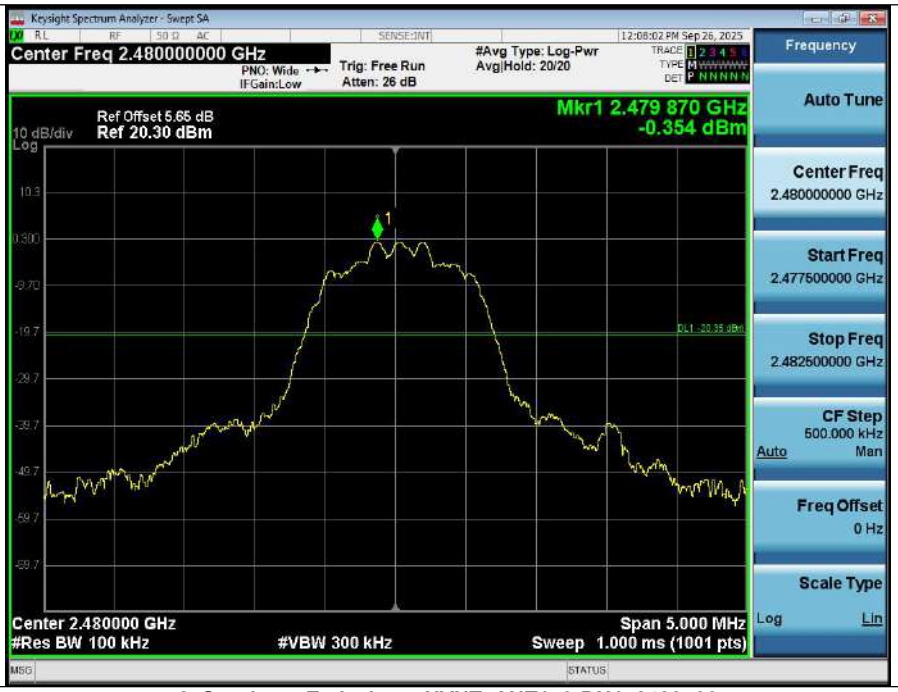
1_Reference_Level_NVNT_ANT1_3-DH1_2441_00



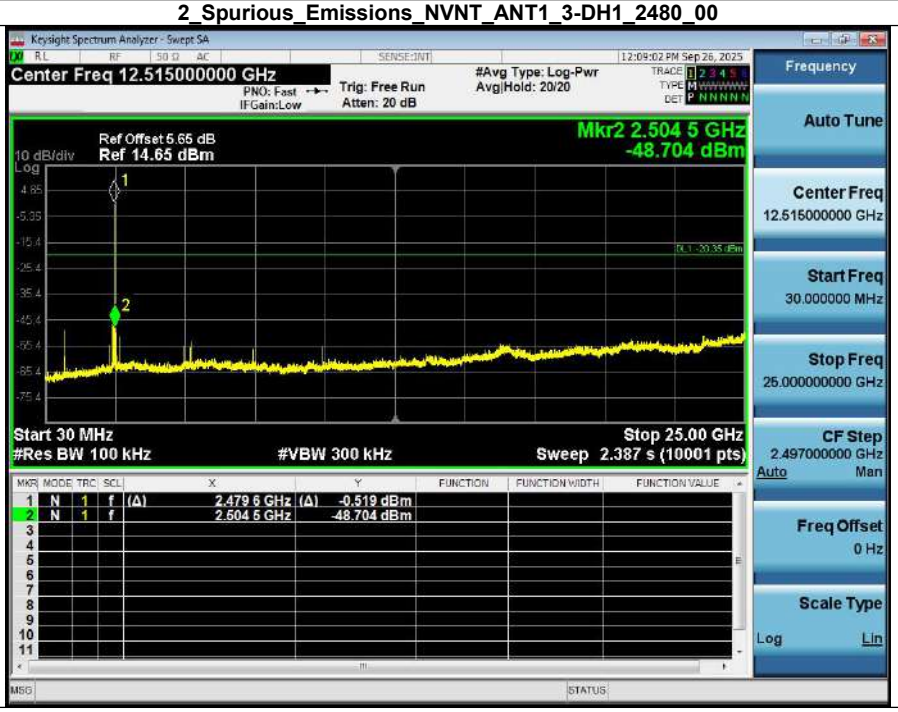
2_Spurious_Emissions_NVNT_ANT1_3-DH1_2441_00



1_Reference_Level_NVNT_ANT1_3-DH1_2480_00



2_Spurious_Emissions_NVNT_ANT1_3-DH1_2480_00

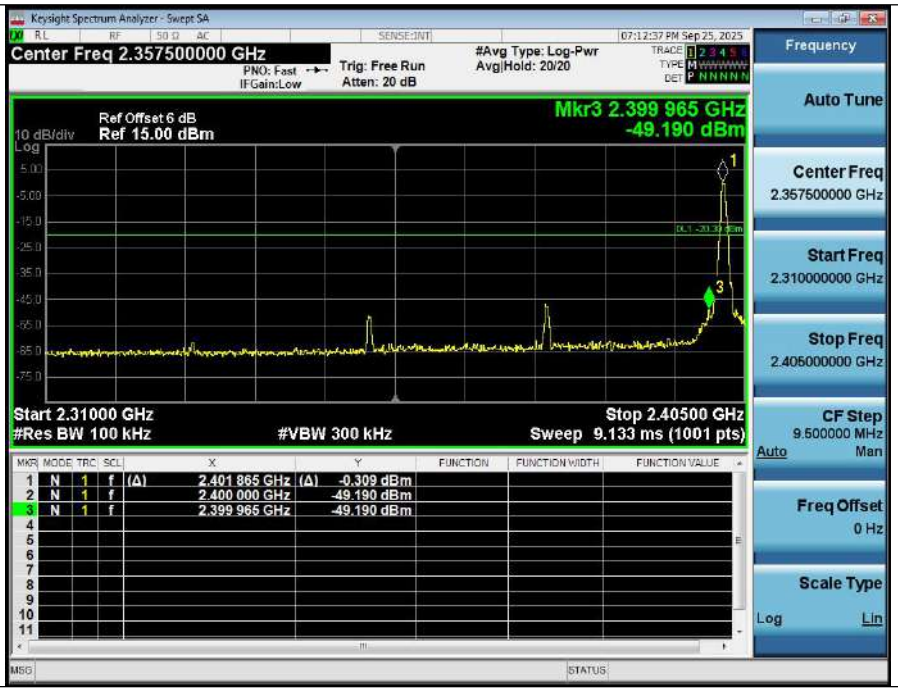


6. Bandedge

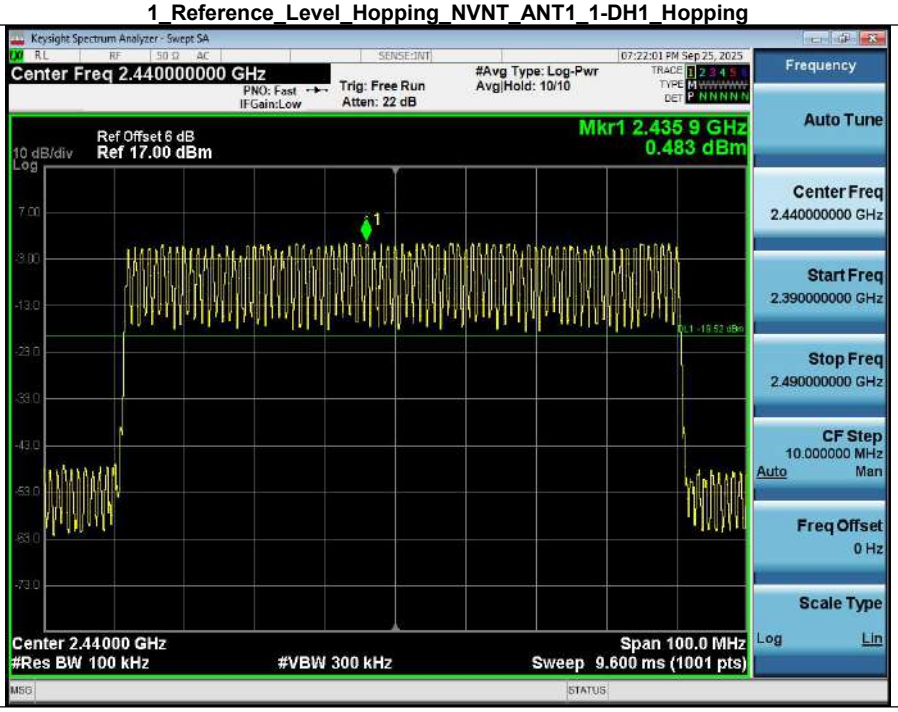
Condition	Antenna	Modulation	TX Mode	Ref_level(dBm)	Bandedge MAX.Value	Limit	Result
NVNT	ANT1	1-DH1	2402.00	-0.298	-49.190	-20.298	Pass
NVNT	ANT1	1-DH1	Hopping_LCH	0.483	-47.282	-19.517	Pass
NVNT	ANT1	1-DH1	2480.00	-0.149	-58.219	-20.149	Pass
NVNT	ANT1	1-DH1	Hopping_HCH	0.242	-48.588	-19.758	Pass
NVNT	ANT1	2-DH1	2402.00	-0.316	-49.483	-20.316	Pass
NVNT	ANT1	2-DH1	Hopping_LCH	0.546	-47.078	-19.454	Pass
NVNT	ANT1	2-DH1	2480.00	-0.130	-61.252	-20.130	Pass
NVNT	ANT1	2-DH1	Hopping_HCH	0.220	-48.381	-19.780	Pass
NVNT	ANT1	3-DH1	2402.00	-0.530	-48.418	-20.530	Pass
NVNT	ANT1	3-DH1	Hopping_LCH	0.564	-46.306	-19.436	Pass
NVNT	ANT1	3-DH1	2480.00	-0.354	-59.901	-20.354	Pass
NVNT	ANT1	3-DH1	Hopping_HCH	0.099	-48.283	-19.901	Pass

1_Reference_Level_NVNT_ANT1_1-DH1_2402_00

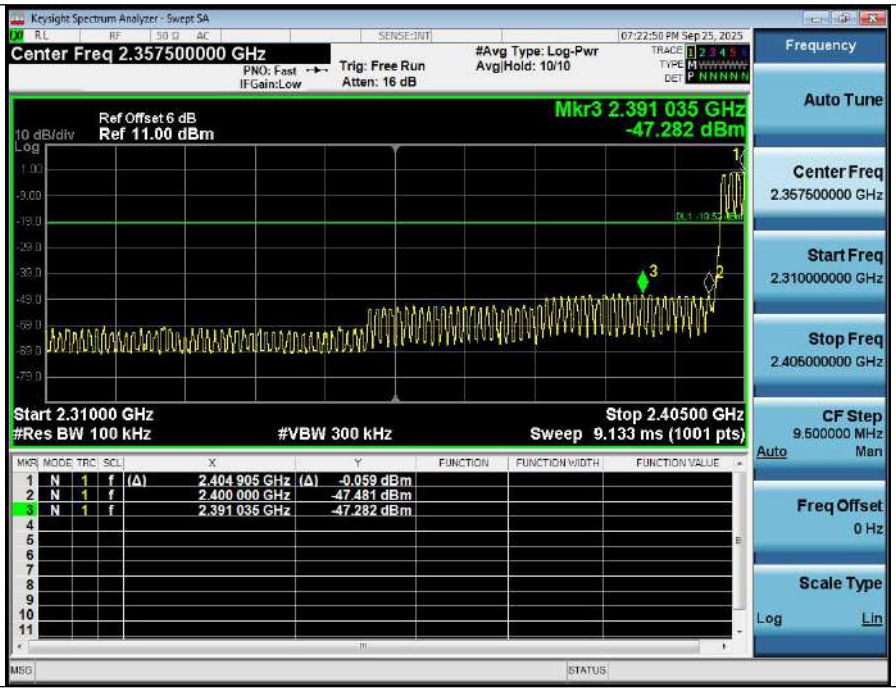
2_Bandedge_NVNT_ANT1_1-DH1_2402_00



1_Reference_Level_Hopping_NVNT_ANT1_1-DH1_Hopping

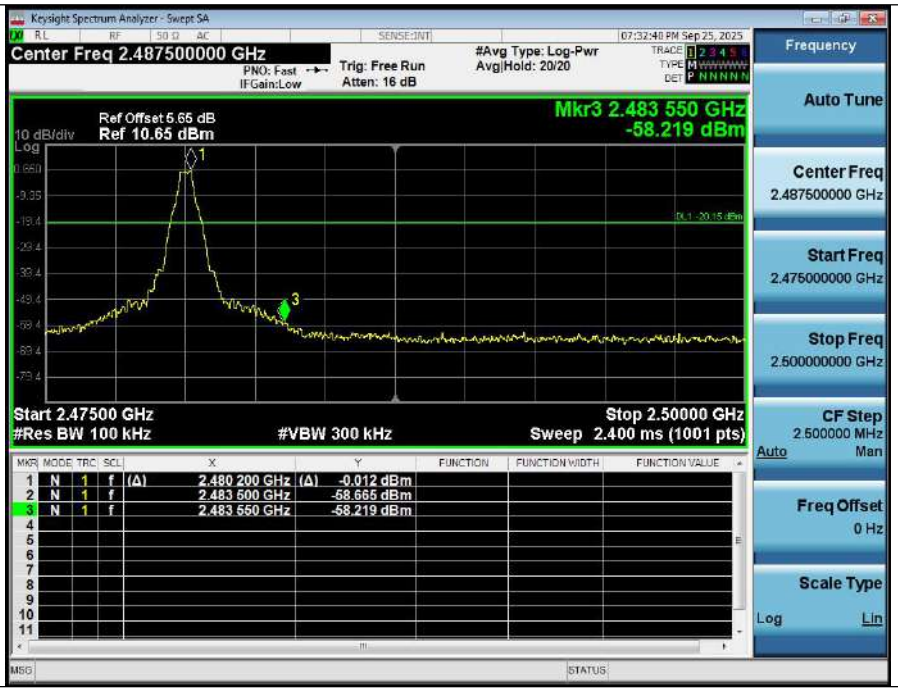


2_Band_Edge_(Hopping)_NVNT_ANT1_1-DH1_Hopping

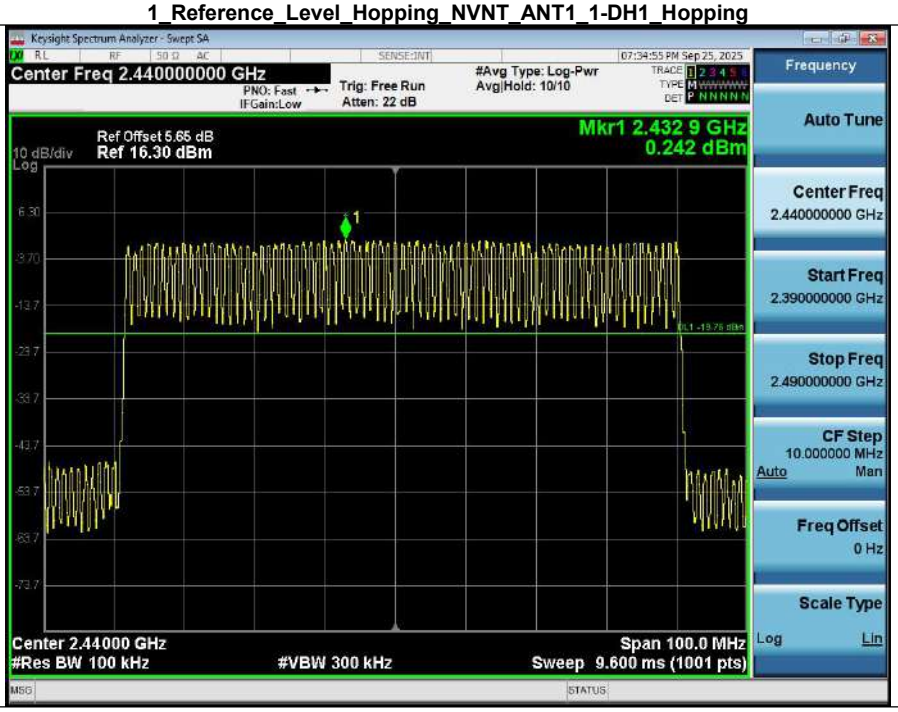


1_Reference_Level_NVNT_ANT1_1-DH1_2480_00

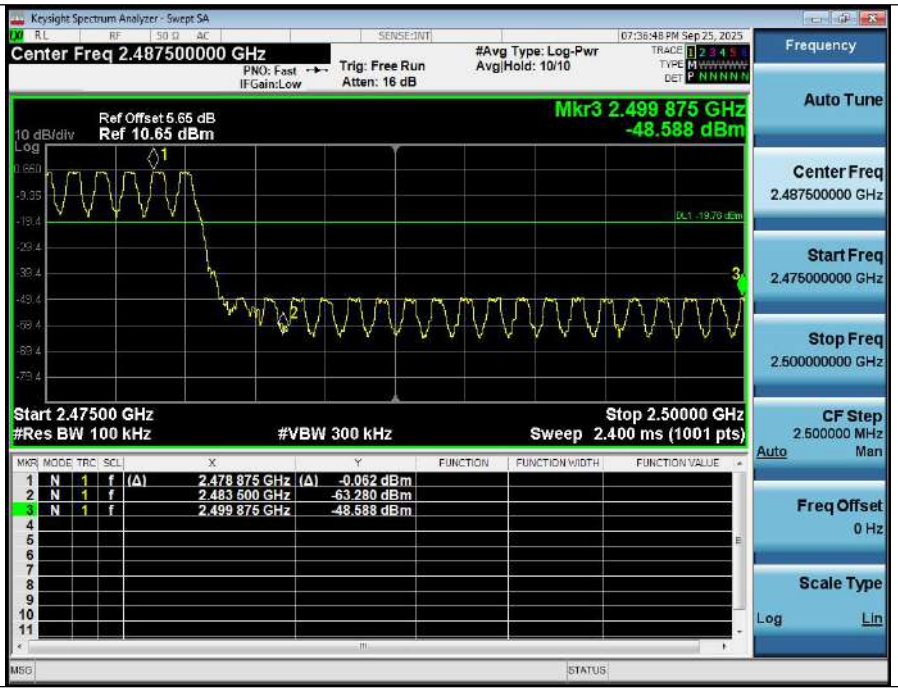
2_Bandedge_NVNT_ANT1_1-DH1_2480_00



1_Reference_Level_Hopping_NVNT_ANT1_1-DH1_Hopping

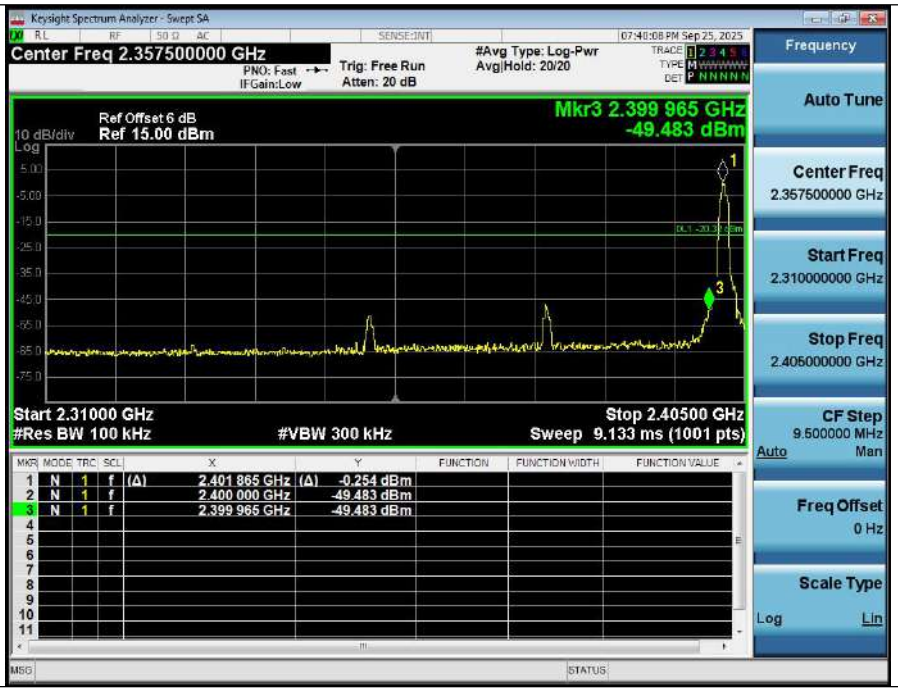


2_Band_Edge_(Hopping)_NVNT_ANT1_1-DH1_Hopping

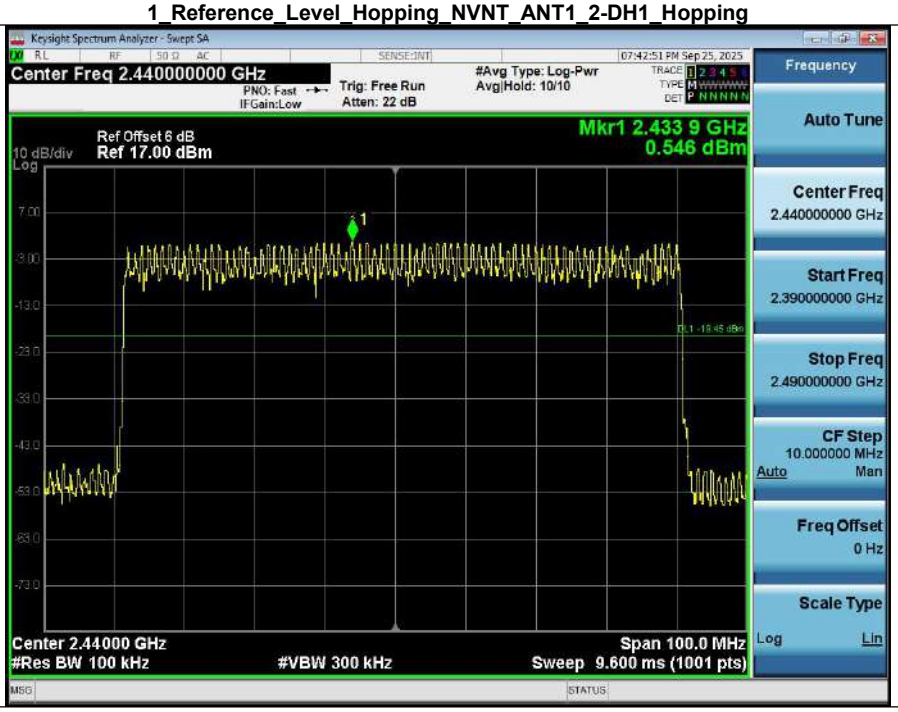


1_Reference_Level_NVNT_ANT1_2-DH1_2402_00

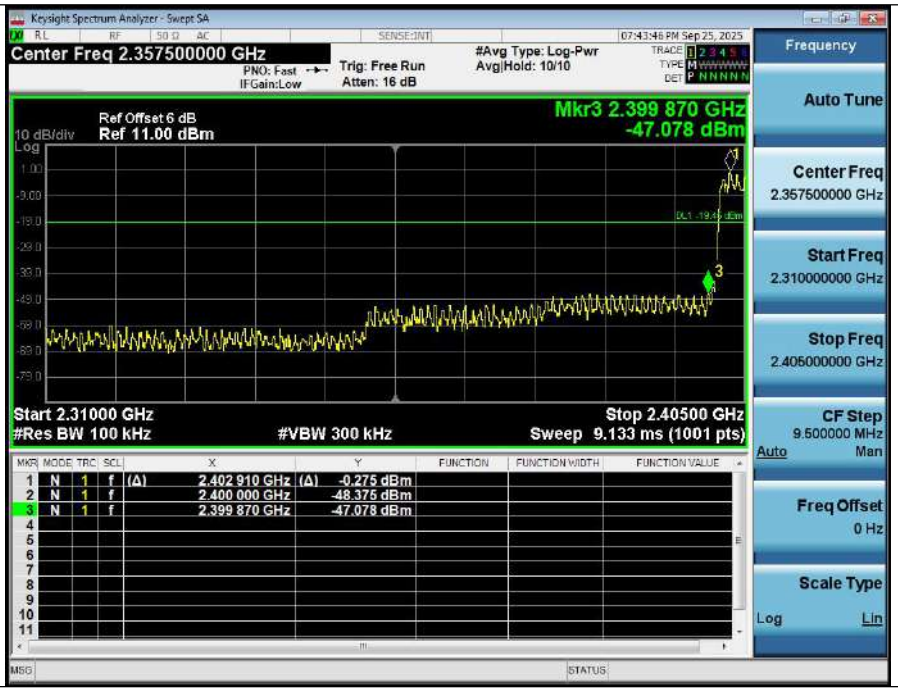
2_Bandedge_NVNT_ANT1_2-DH1_2402_00



1_Reference_Level_Hopping_NVNT_ANT1_2-DH1_Hopping



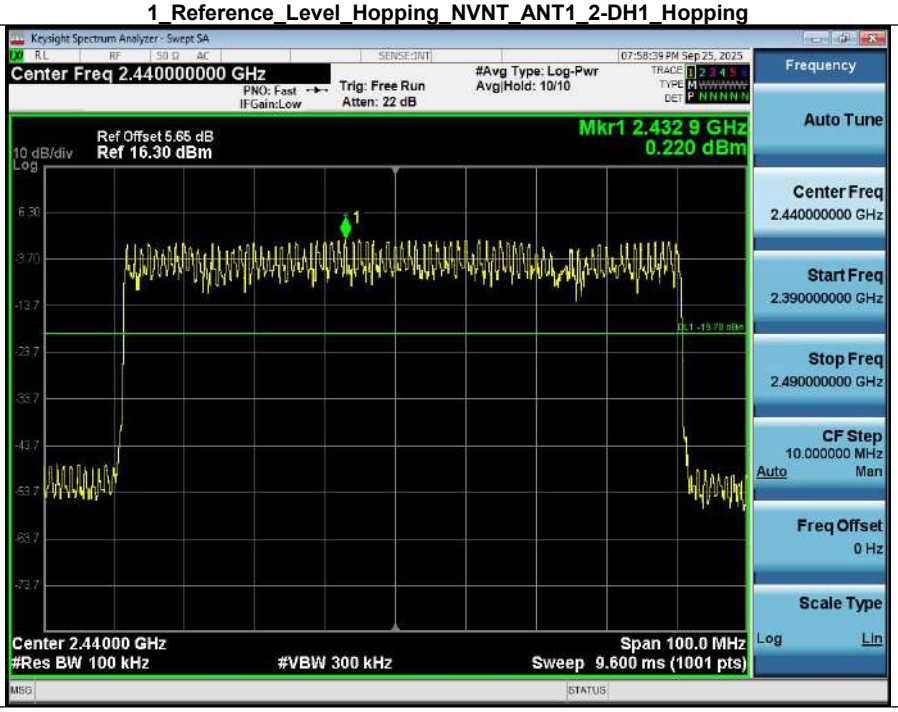
2_Band_Edge_(Hopping)_NVNT_ANT1_2-DH1_Hopping



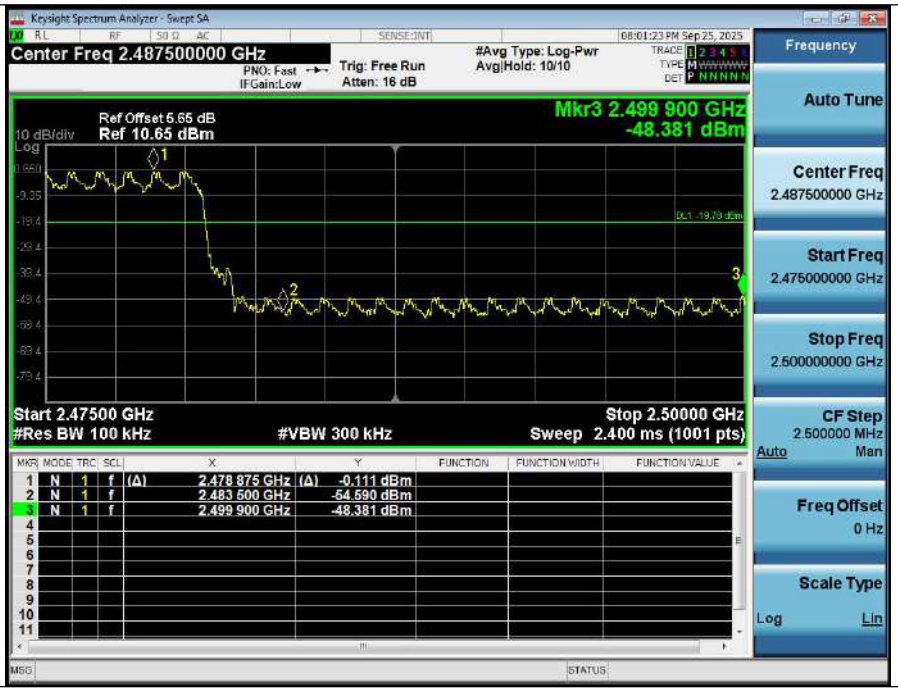
1_Reference_Level_NVNT_ANT1_2-DH1_2480_00

2_Bandedge_NVNT_ANT1_2-DH1_2480_00

1_Reference_Level_Hopping_NVNT_ANT1_2-DH1_Hopping

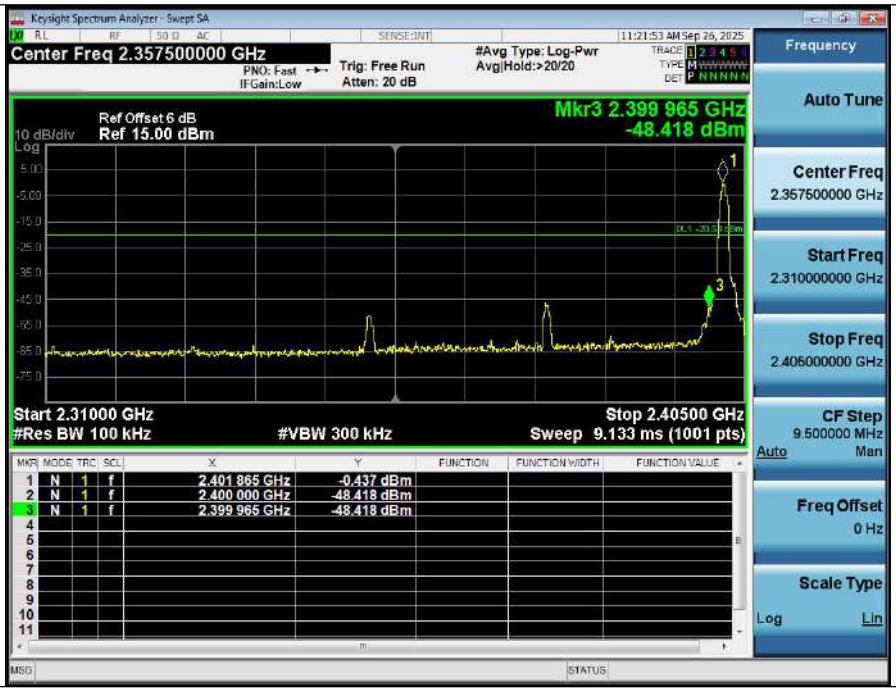


2_Band_Edge_(Hopping)_NVNT_ANT1_2-DH1_Hopping

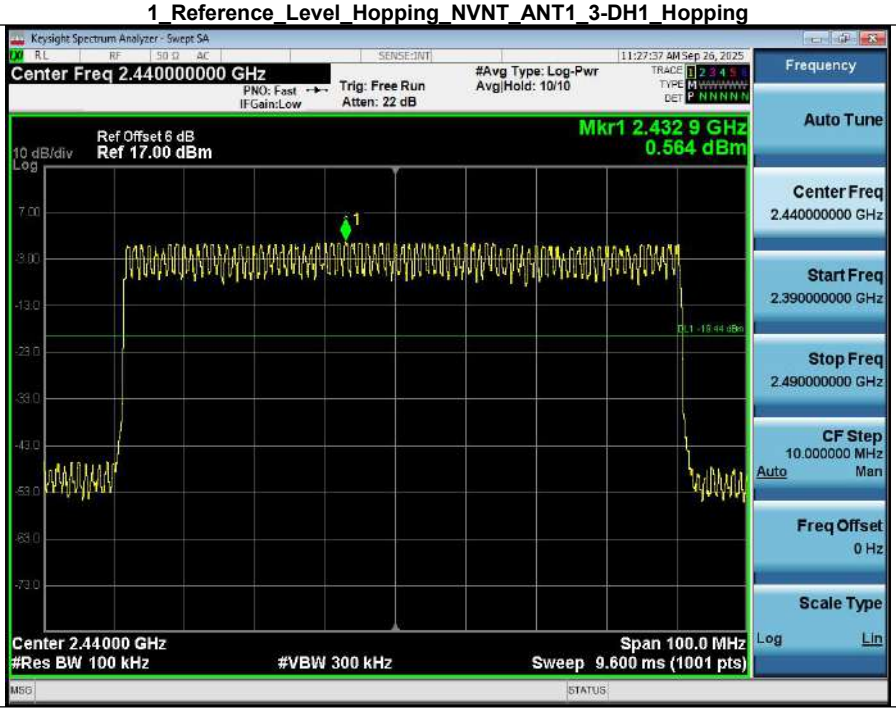


1_Reference_Level_NVNT_ANT1_3-DH1_2402_00

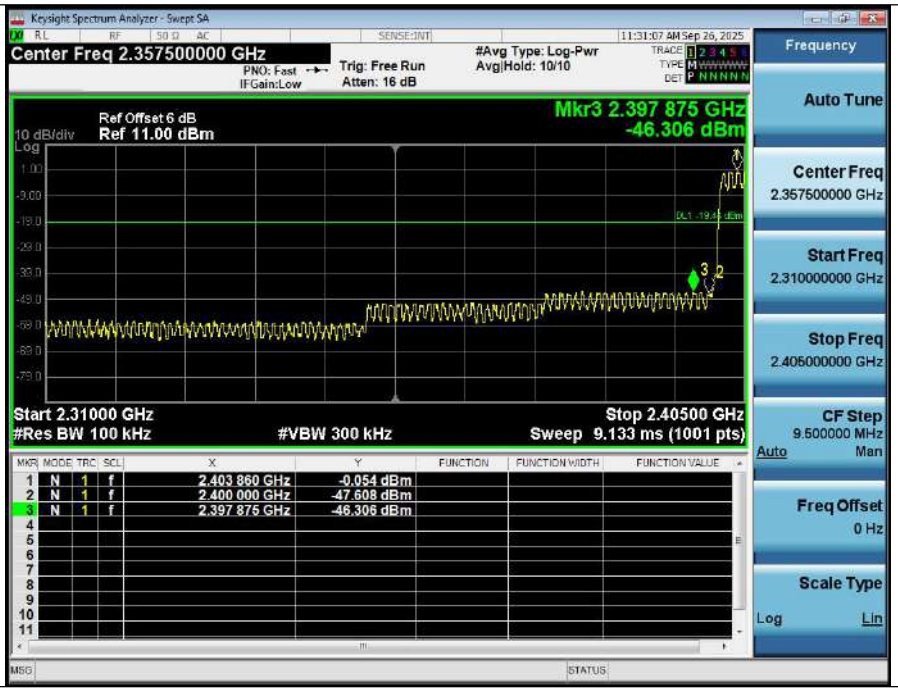
2_Bandedge_NVNT_ANT1_3-DH1_2402_00



1_Reference_Level_Hopping_NVNT_ANT1_3-DH1_Hopping

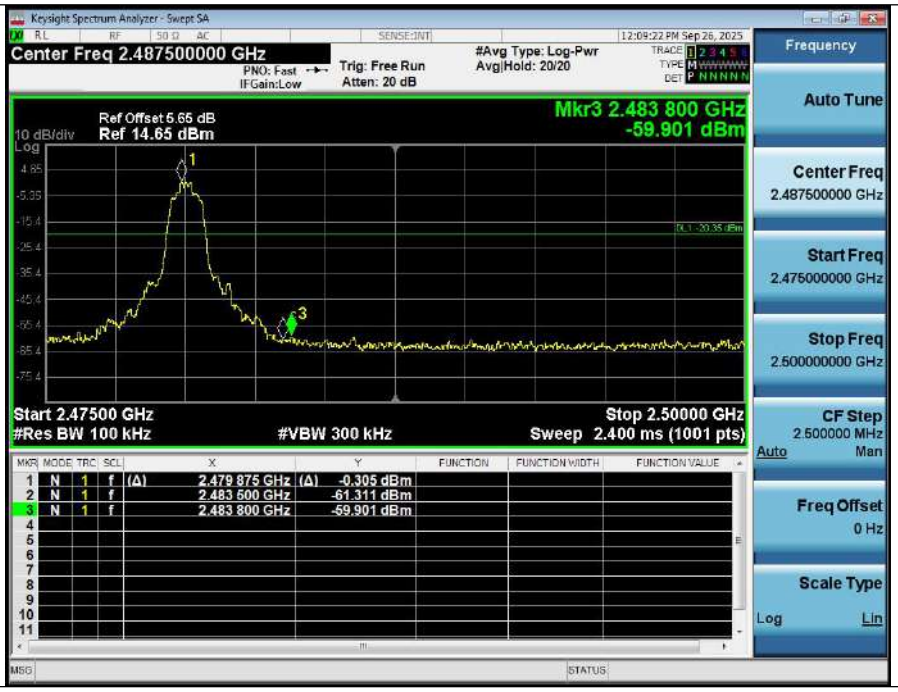


2_Band_Edge_(Hopping)_NVNT_ANT1_3-DH1_Hopping

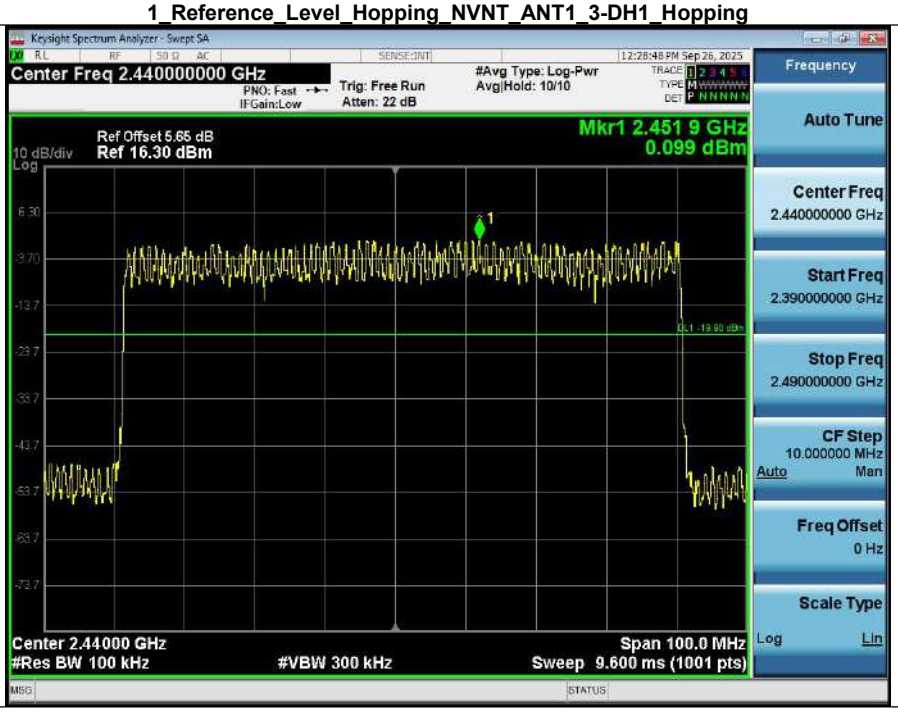


1_Reference_Level_NVNT_ANT1_3-DH1_2480_00

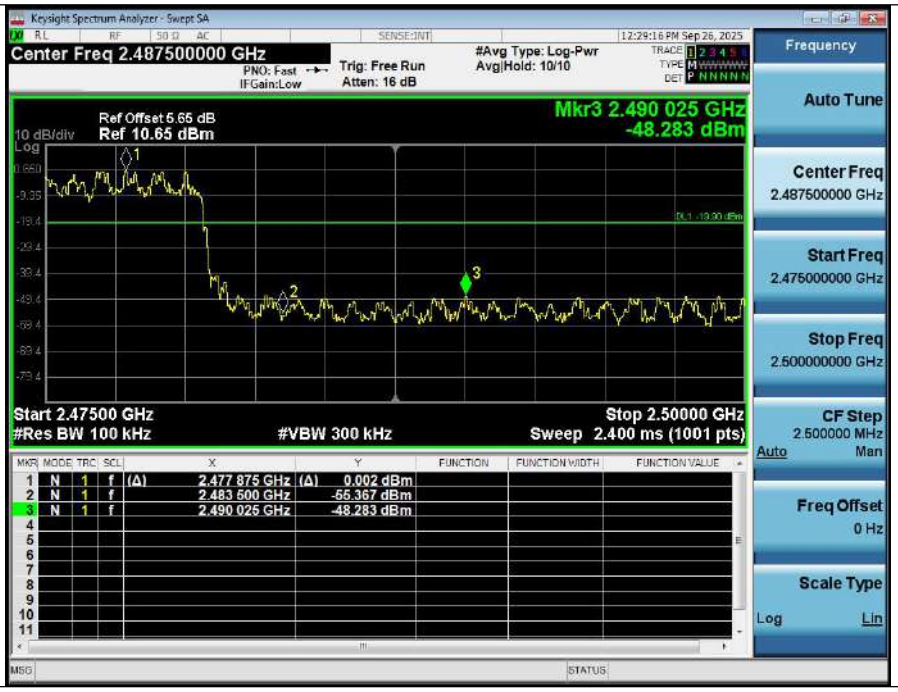
2_Bandedge_NVNT_ANT1_3-DH1_2480_00



1_Reference_Level_Hopping_NVNT_ANT1_3-DH1_Hopping



2_Band_Edge_(Hopping)_NVNT_ANT1_3-DH1_Hopping


Keysight Spectrum Analyzer - Swept SA
Center Freq 2.487500000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 16 dB
#Avg Type: Log-Pwr
Avg|Hold: 10/10
12:29:16 PM Sep 26, 2025
Frequency
Auto Tune
Ref Offset 5.65 dB
10 dB/div
Ref 10.65 dBm
Log
Mkr3 2.490 025 GHz
-48.283 dBm
Center Freq
2.487500000 GHz
Start Freq
2.475000000 GHz
Stop Freq
2.500000000 GHz
CF Step
2.500000 MHz
Auto
Man
Freq Offset
0 Hz
Scale Type
Log
Lin
Start 2.47500 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.50000 GHz
Sweep 2.400 ms (1001 pts)
1 N 1 f (Δ) 2.477 875 GHz (Δ) 0.002 dBm
2 N 1 f 2.483 500 GHz -55.367 dBm
3 N 1 f 2.490 025 GHz -48.283 dBm
MSG
STATUS

7. 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-DH1	2402.00	2402.047	2403.040	0.99	0.987	Pass
NVNT	ANT1	1-DH1	2441.00	2441.038	2442.031	0.99	0.938	Pass
NVNT	ANT1	1-DH1	2480.00	2479.050	2480.043	0.99	0.939	Pass
NVNT	ANT1	2-DH1	2402.00	2402.035	2403.028	0.99	0.853	Pass
NVNT	ANT1	2-DH1	2441.00	2441.023	2442.031	1.01	0.845	Pass
NVNT	ANT1	2-DH1	2480.00	2478.867	2479.875	1.01	0.839	Pass
NVNT	ANT1	3-DH1	2402.00	2402.020	2403.028	1.01	0.837	Pass
NVNT	ANT1	3-DH1	2441.00	2441.029	2442.028	1.00	0.836	Pass
NVNT	ANT1	3-DH1	2480.00	2479.014	2480.010	1.00	0.837	Pass

Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_1-DH1_Hopping

Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_1-DH1_Hopping

Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_1-DH1_Hopping

Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_2-DH1_Hopping

Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_2-DH1_Hopping

Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_2-DH1_Hopping

Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_3-DH1_Hopping

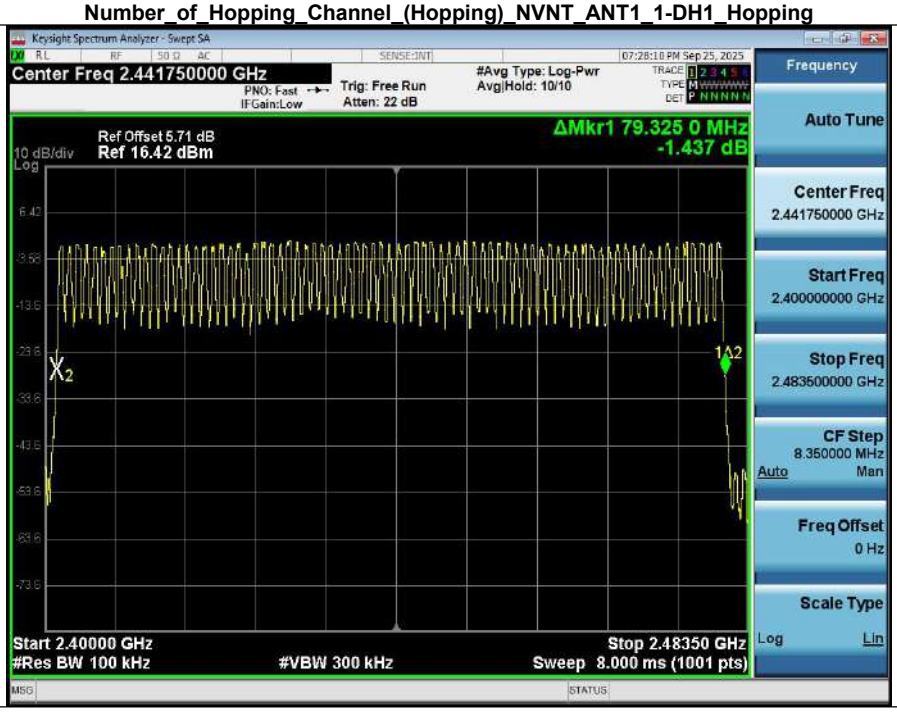
Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_3-DH1_Hopping

Carrier_Frequencies_Separation_(Hopping)_NVNT_ANT1_3-DH1_Hopping

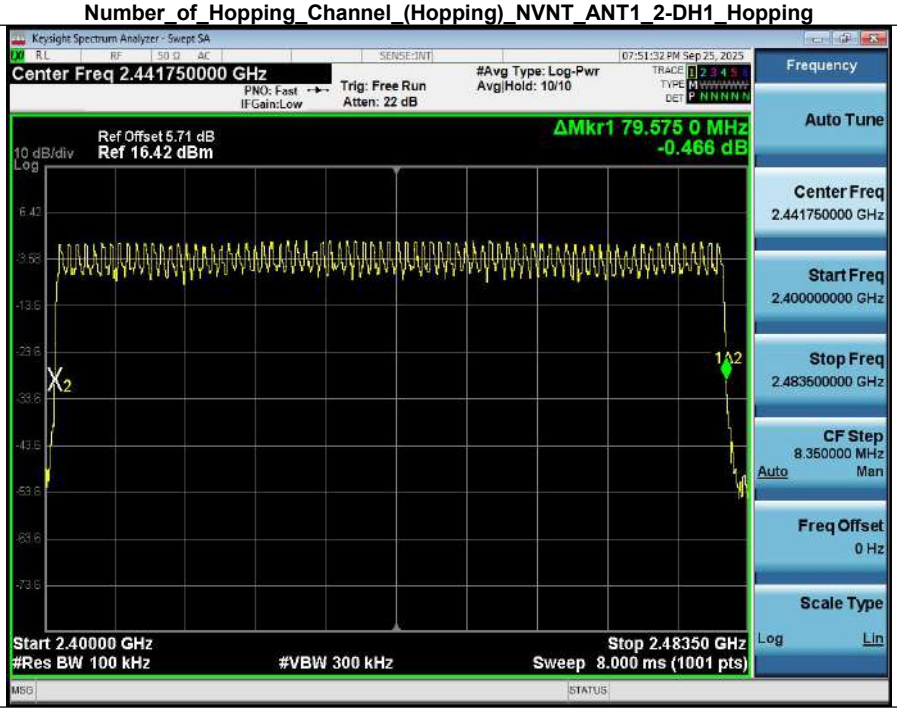
8. Number of Hopping Channel (Hopping)

Condition	Antenna	Modulation	Hopping Num	Limit	Result
NVNT	ANT1	1-DH1	79	15	Pass
NVNT	ANT1	2-DH1	79	15	Pass
NVNT	ANT1	3-DH1	79	15	Pass

Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_1-DH1_Hopping



Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_2-DH1_Hopping



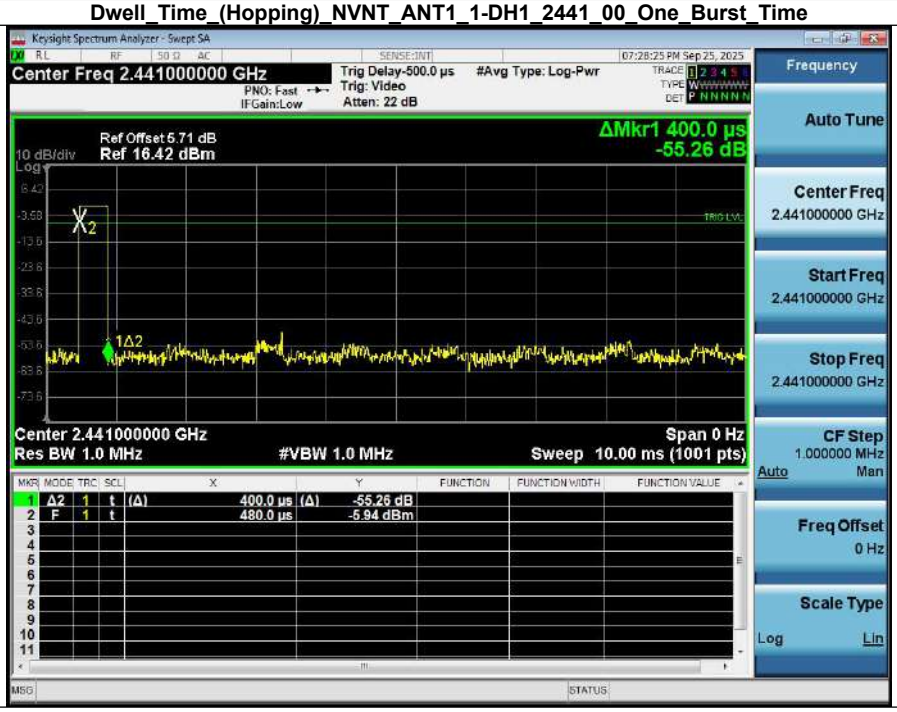
Number_of_Hopping_Channel_(Hopping)_NVNT_ANT1_3-DH1_Hopping


Keysight Spectrum Analyzer - Swept SA
Center Freq 2.441750000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 22 dB
#Avg Type: Log-Pwr
Avg|Hold: 10/10
11:44:06 AM Sep 26, 2025
Ref Offset 5.71 dB
10 dB/div
Log
Ref 16.42 dBm
ΔMkr1 79.575 0 MHz
1.431 dB
Start 2.40000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.48350 GHz
Sweep 8.000 ms (1001 pts)
Frequency
Auto Tune
Center Freq
2.441750000 GHz
Start Freq
2.400000000 GHz
Stop Freq
2.483500000 GHz
CF Step
8.350000 MHz
Auto
Man
Freq Offset
0 Hz
Scale Type
Log
Lin
MSG
STATUS

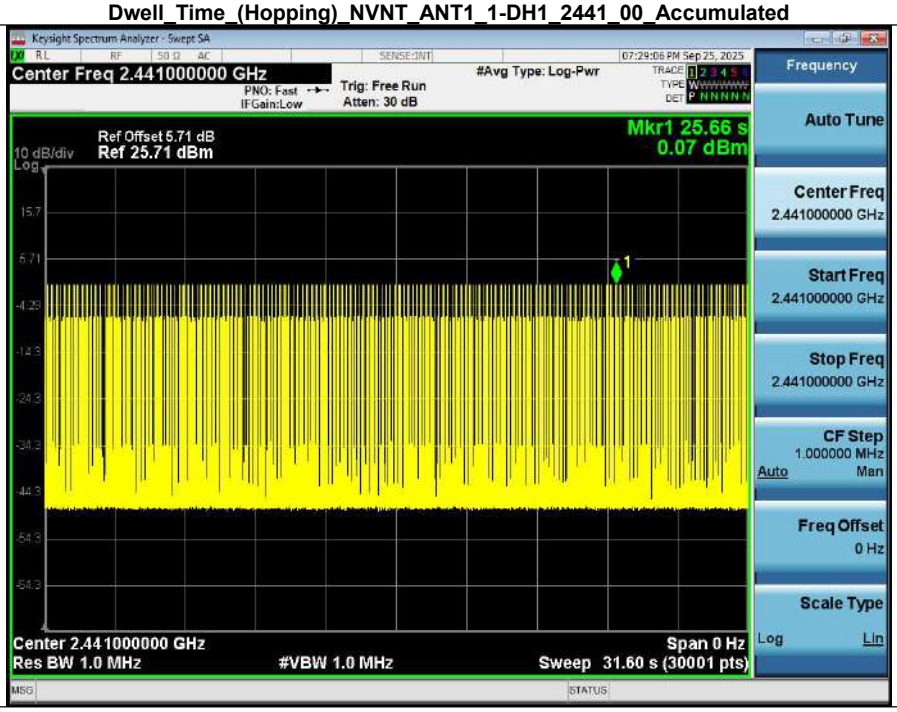
9. Dwell Time (Hopping)

Condition	Antenna	Packet Type	Pulse Time(ms)	Hops	Dwell Time(ms)	Limit(s)	Result
NVNT	ANT1	1-DH1	0.400	319.00	127.600	0.40	Pass
NVNT	ANT1	2-DH1	0.400	320.00	128.000	0.40	Pass
NVNT	ANT1	3-DH1	0.410	319.00	130.790	0.40	Pass
NVNT	ANT1	1-DH3	1.650	177.00	292.050	0.40	Pass
NVNT	ANT1	1-DH5	2.900	102.00	295.800	0.40	Pass
NVNT	ANT1	2-DH3	1.650	157.00	259.050	0.40	Pass
NVNT	ANT1	2-DH5	2.900	120.00	348.000	0.40	Pass
NVNT	ANT1	3-DH3	1.650	161.00	265.650	0.40	Pass
NVNT	ANT1	3-DH5	2.900	110.00	319.000	0.40	Pass

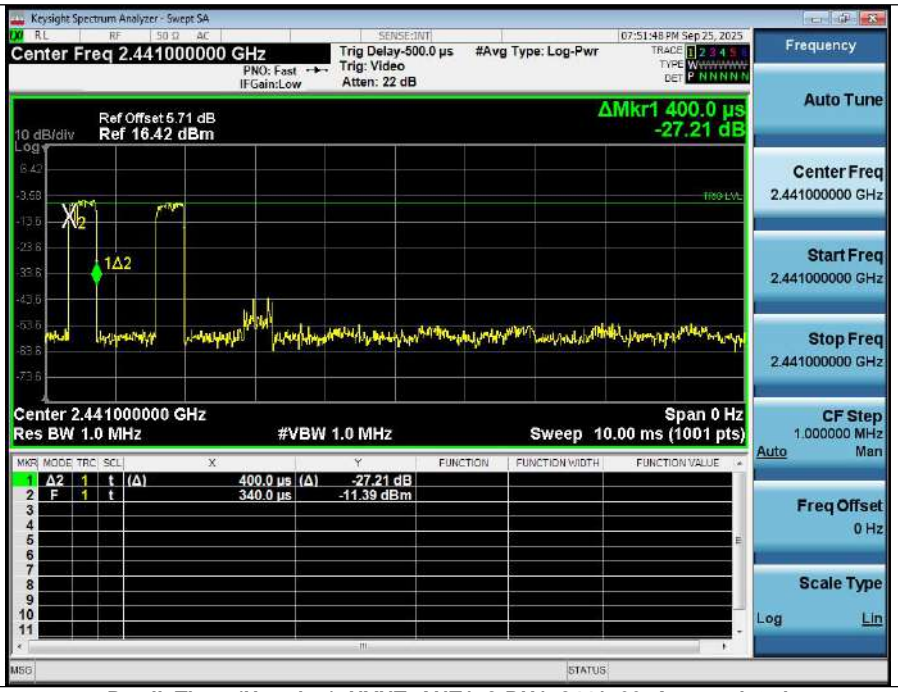
Dwell_Time_(Hopping)_NVNT_ANT1_1-DH1_2441_00_One_Burst_Time



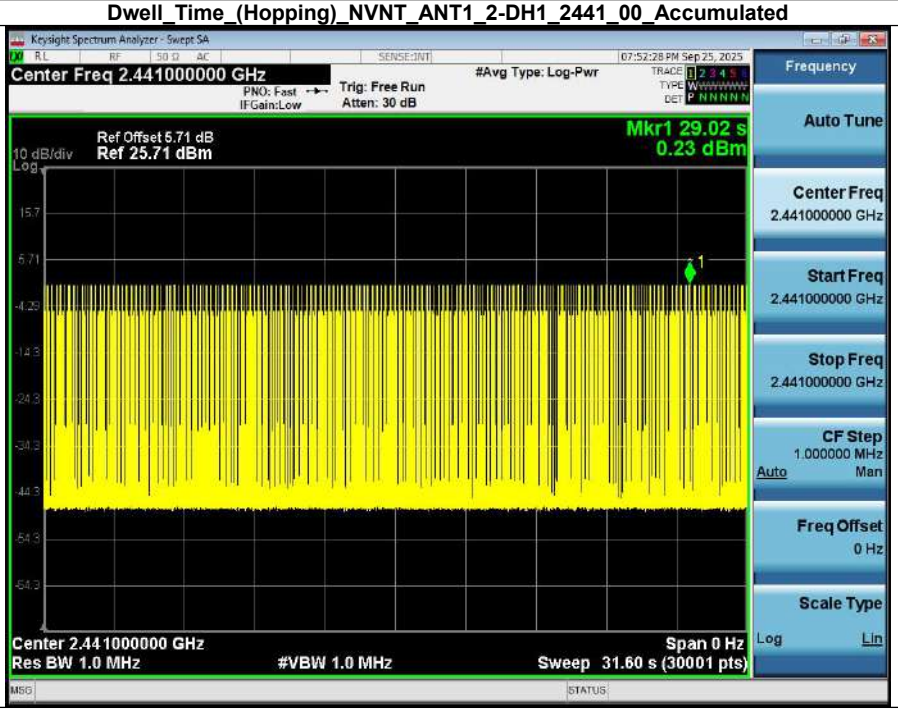
Dwell_Time_(Hopping)_NVNT_ANT1_1-DH1_2441_00_Accumulated



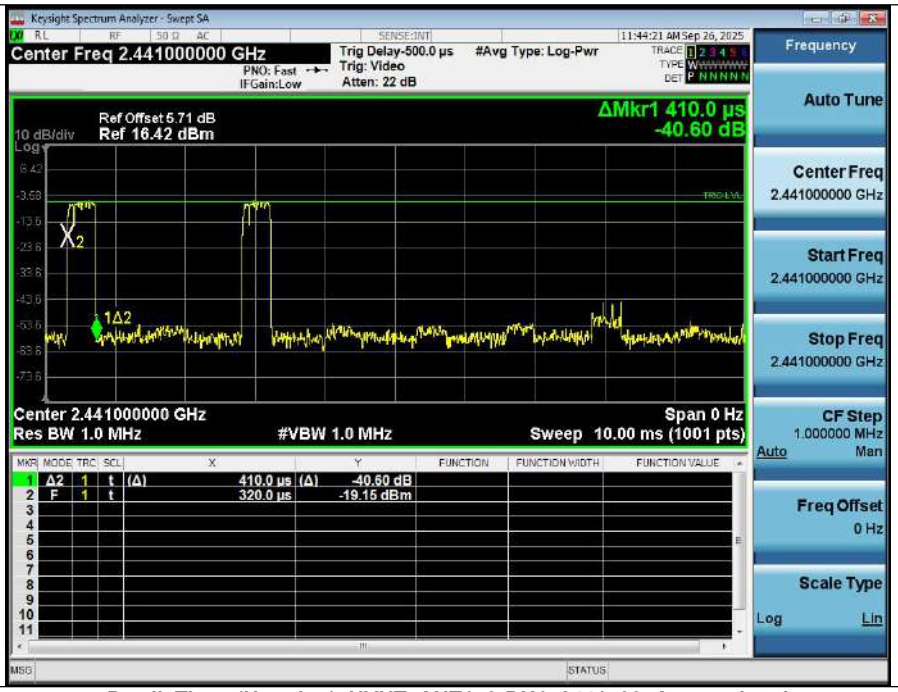
Dwell_Time_(Hopping)_NVNT_ANT1_2-DH1_2441_00_One_Burst_Time



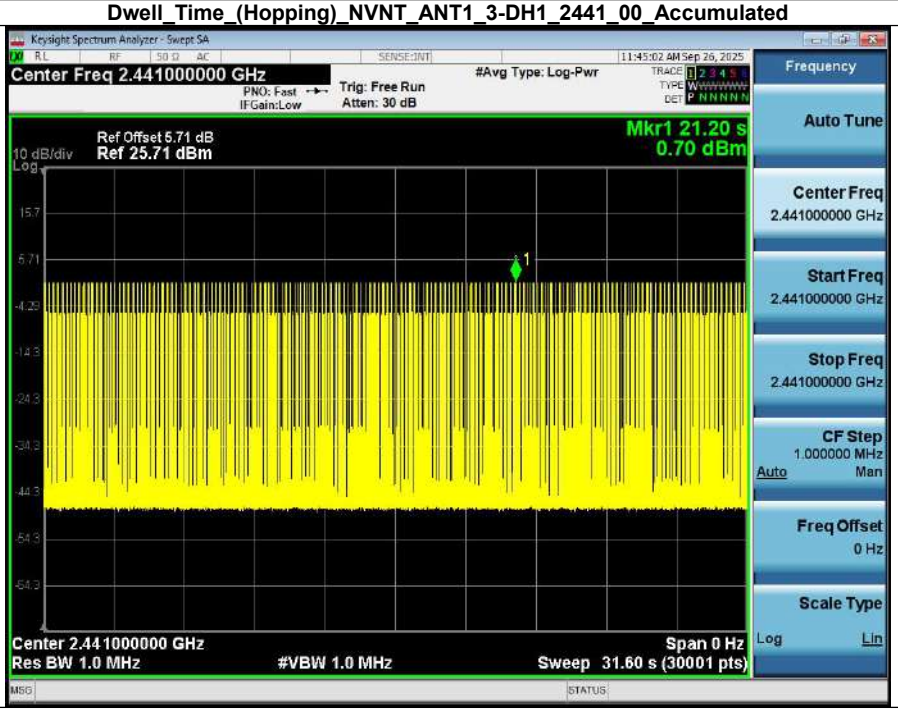
Dwell_Time_(Hopping)_NVNT_ANT1_2-DH1_2441_00_Accumulated



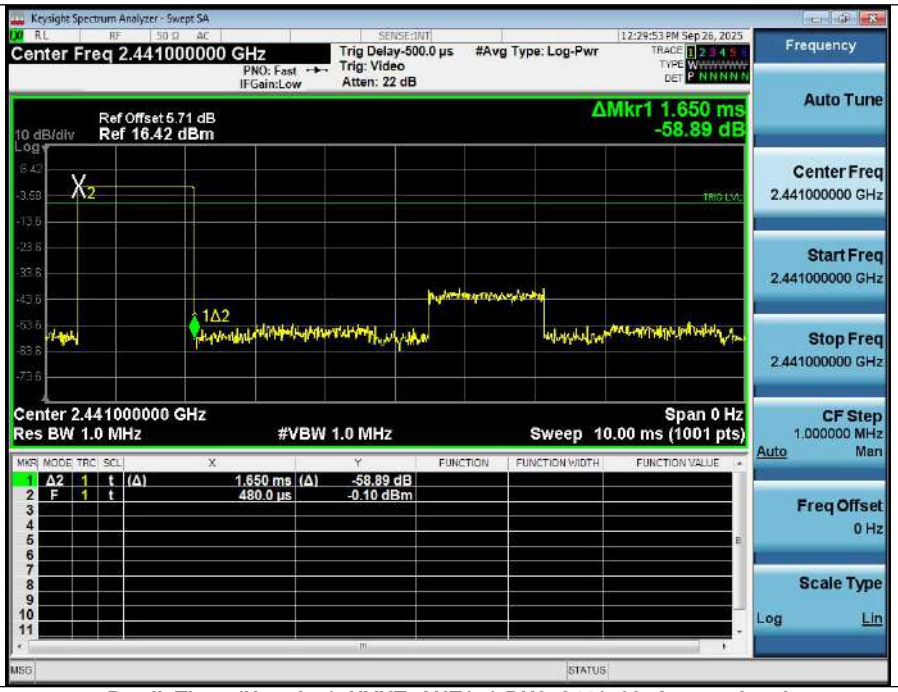
Dwell_Time_(Hopping)_NVNT_ANT1_3-DH1_2441_00_One_Burst_Time



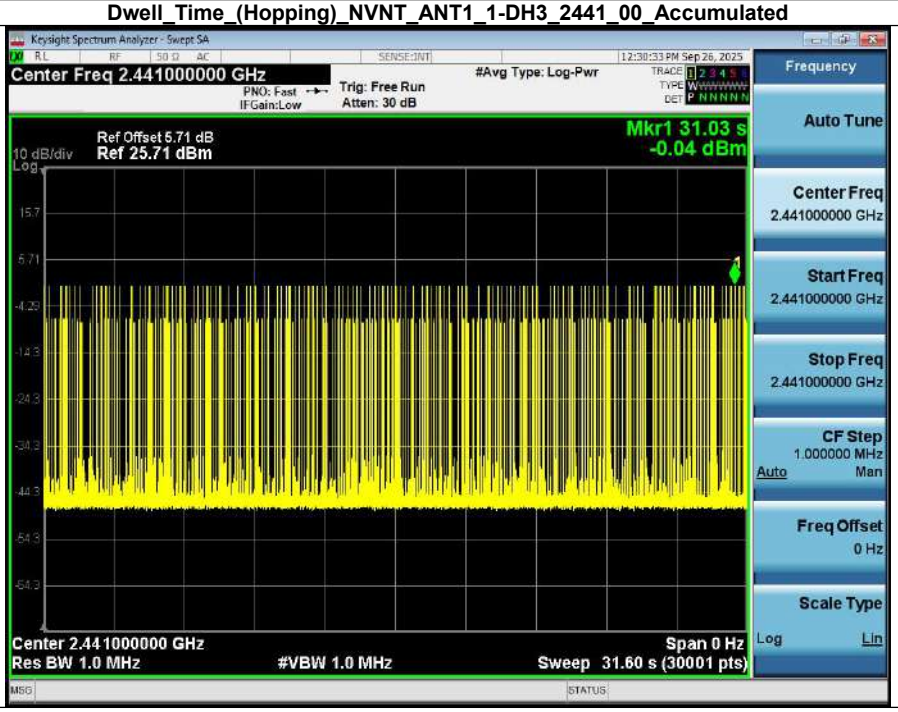
Dwell_Time_(Hopping)_NVNT_ANT1_3-DH1_2441_00_Accumulated



Dwell_Time_(Hopping)_NVNT_ANT1_1-DH3_2441_00_One_Burst_Time

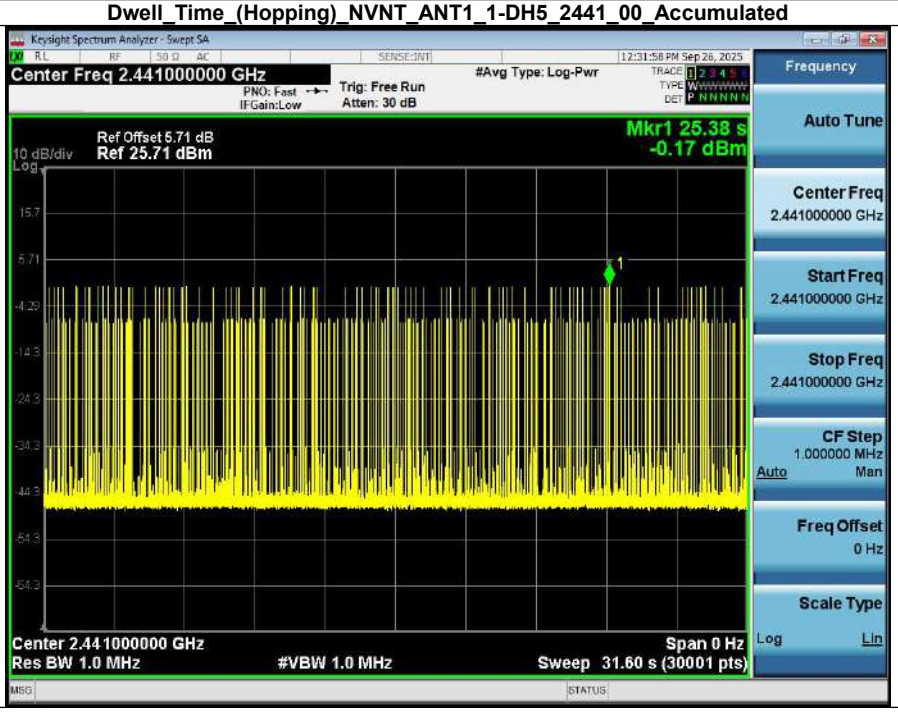


Dwell_Time_(Hopping)_NVNT_ANT1_1-DH3_2441_00_Accumulated

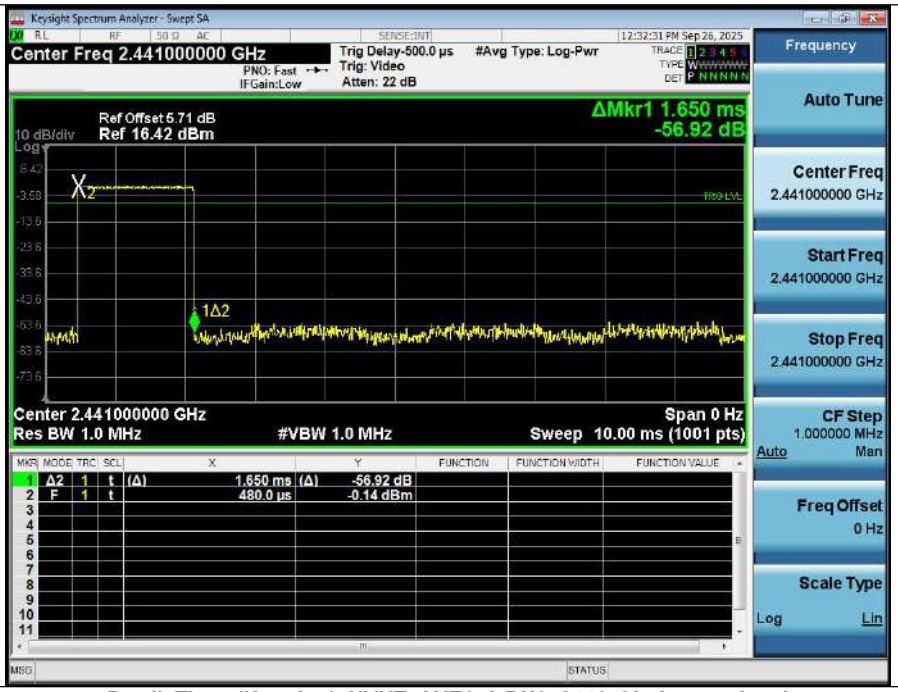


Dwell_Time_(Hopping)_NVNT_ANT1_1-DH5_2441_00_One_Burst_Time

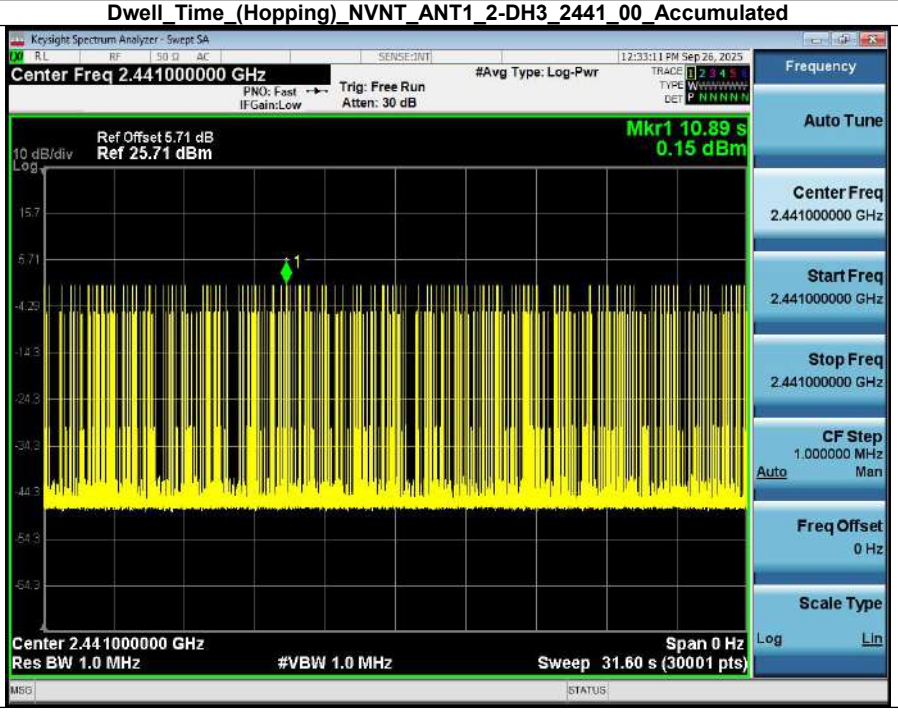
Dwell_Time_(Hopping)_NVNT_ANT1_1-DH5_2441_00_Accumulated



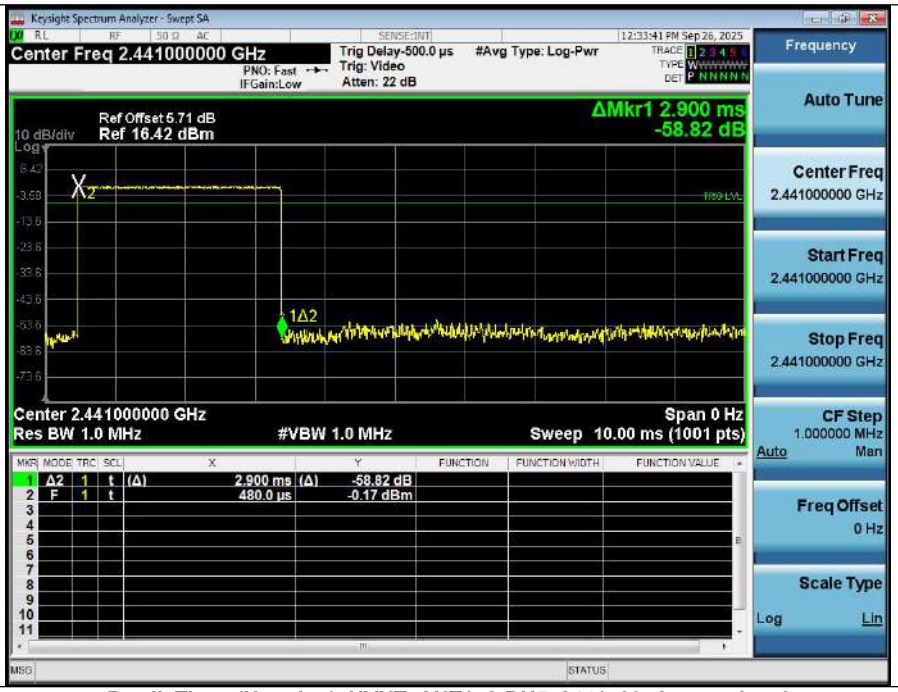
Dwell_Time_(Hopping)_NVNT_ANT1_2-DH3_2441_00_One_Burst_Time



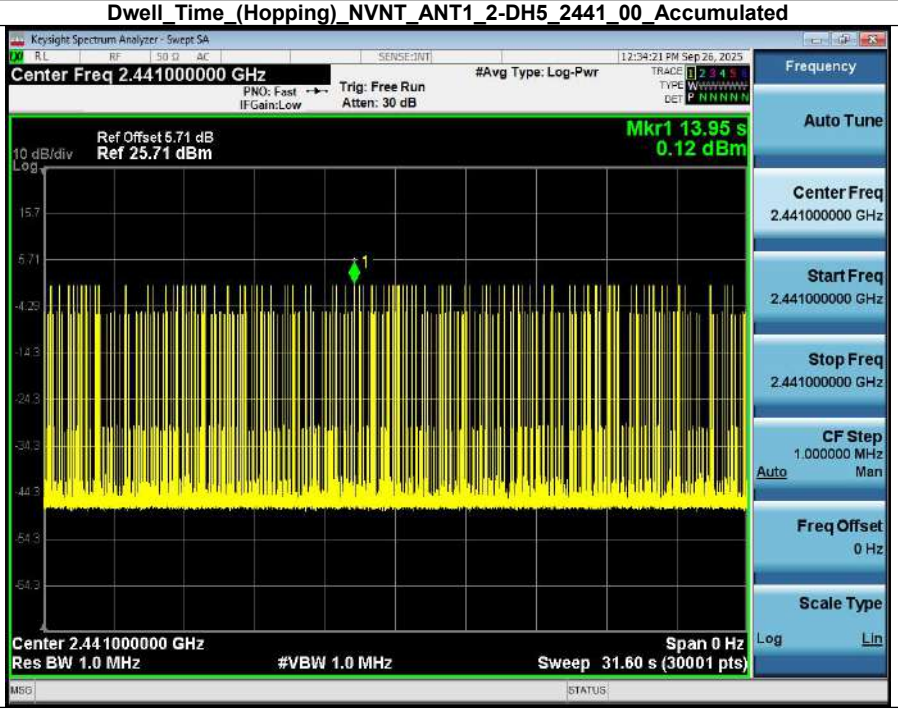
Dwell_Time_(Hopping)_NVNT_ANT1_2-DH3_2441_00_Accumulated



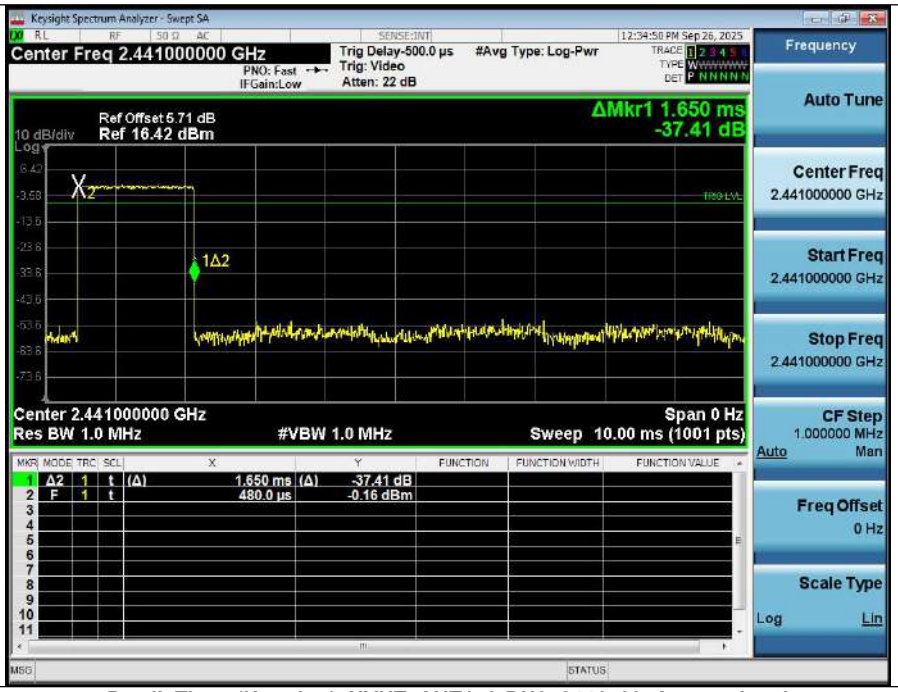
Dwell_Time_(Hopping)_NVNT_ANT1_2-DH5_2441_00_One_Burst_Time



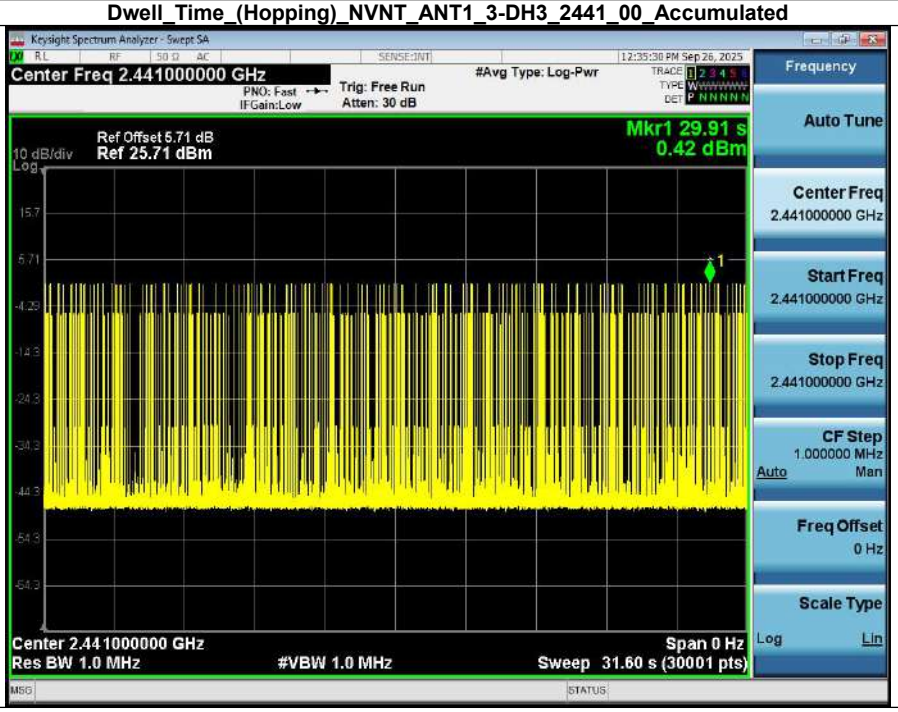
Dwell_Time_(Hopping)_NVNT_ANT1_2-DH5_2441_00_Accumulated



Dwell_Time_(Hopping)_NVNT_ANT1_3-DH3_2441_00_One_Burst_Time



Dwell_Time_(Hopping)_NVNT_ANT1_3-DH3_2441_00_Accumulated



Dwell_Time_(Hopping)_NVNT_ANT1_3-DH5_2441_00_One_Burst_Time

Dwell_Time_(Hopping)_NVNT_ANT1_3-DH5_2441_00_Accumulated