

Table of Contents

1.Dwell Time	2
2.Maximum Peak Conducted Output Power	12
3.-20dB Bandwidth	18
4.Occupied Channel Bandwidth	24
5.Carrier Frequencies Separation	30
6.Number of Hopping Channel	36
7.Band Edge	42
8.Band Edge(Hopping)	49
9.Conducted RF Spurious Emission	56

FCC ID EDR

FCC_BT(Part15.247) Test Data

1.Dwell Time

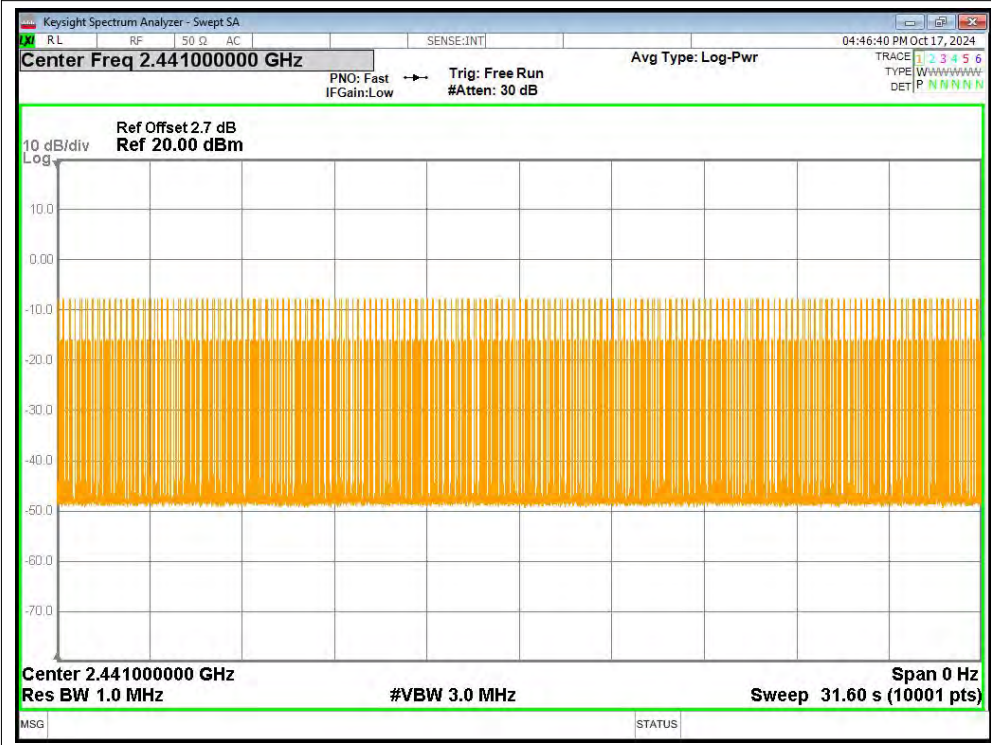
Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
1-DH1	2441	0.376	118.816	316	31600	400	Pass
1-DH3	2441	1.634	258.172	158	31600	400	Pass
1-DH5	2441	2.882	325.666	113	31600	400	Pass
2-DH1	2441	0.385	122.045	317	31600	400	Pass
2-DH3	2441	1.635	255.06	156	31600	400	Pass
2-DH5	2441	2.884	302.82	105	31600	400	Pass
3-DH1	2441	0.386	122.362	317	31600	400	Pass
3-DH3	2441	1.636	256.852	157	31600	400	Pass
3-DH5	2441	2.886	294.372	102	31600	400	Pass

Test Graphs

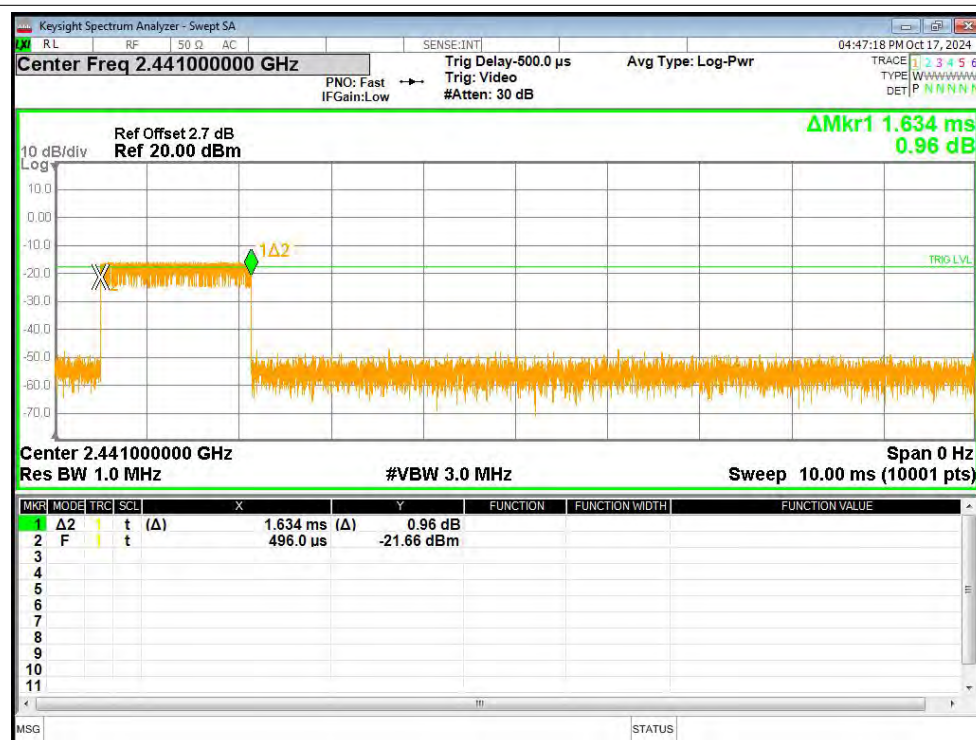
Dwell NVNT 1-DH1 2441MHz Ant1 One Burst



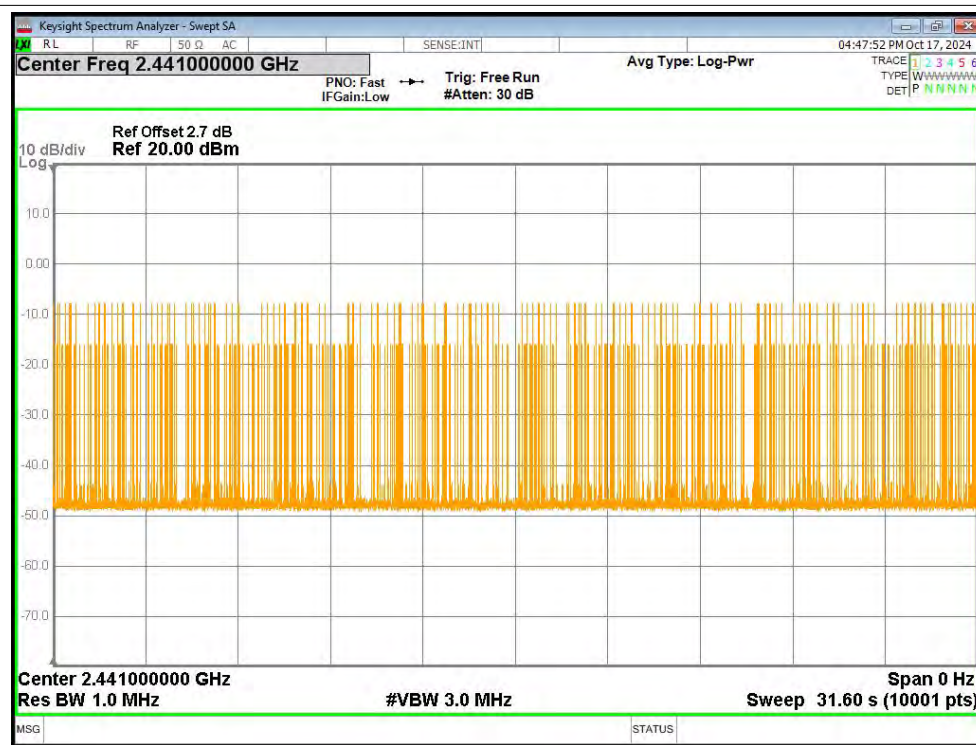
Dwell NVNT 1-DH1 2441MHz Ant1 Accumulated



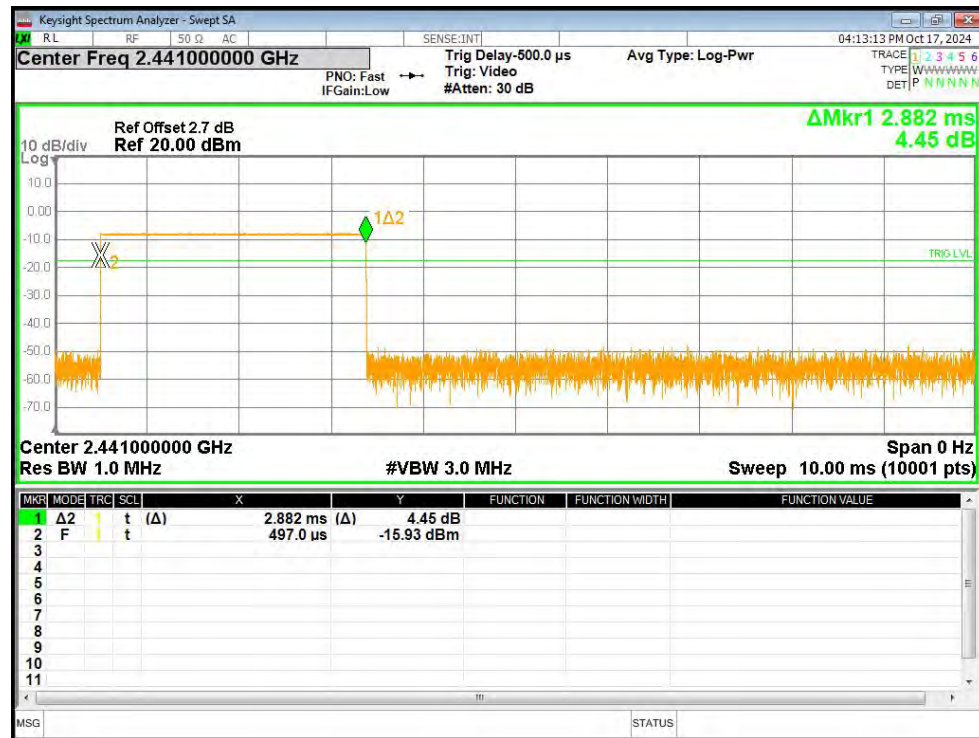
Dwell NVNT 1-DH3 2441MHz Ant1 One Burst



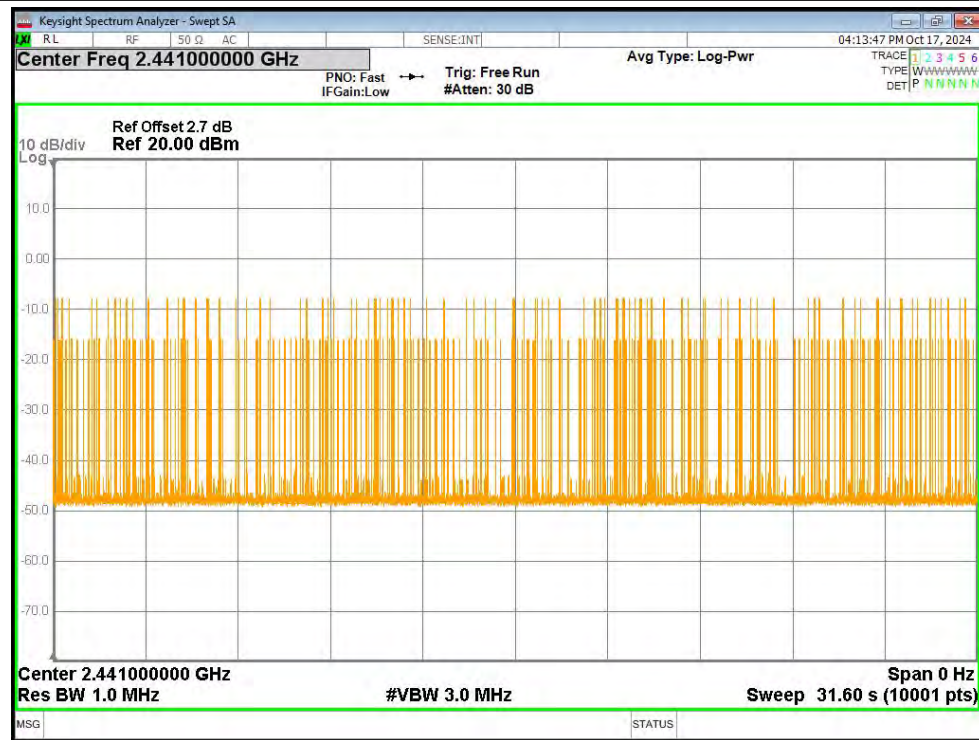
Dwell NVNT 1-DH3 2441MHz Ant1 Accumulated



Dwell NVNT 1-DH5 2441MHz Ant1 One Burst



Dwell NVNT 1-DH5 2441MHz Ant1 Accumulated



[illegible]

Keysight Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT 04:49:33 PM Oct 17, 2024

Center Freq 2.441000000 GHz Avg Type: Log-Pwr

PNO: Fast IFGain:Low Trig: Free Run #Atten: 30 dB

TRACE 1 2 3 4 5 6
TYPE W W W W W W W W
DET P N N N N N

10 dB/div
Log
Ref Offset 2.7 dB
Ref 20.00 dBm

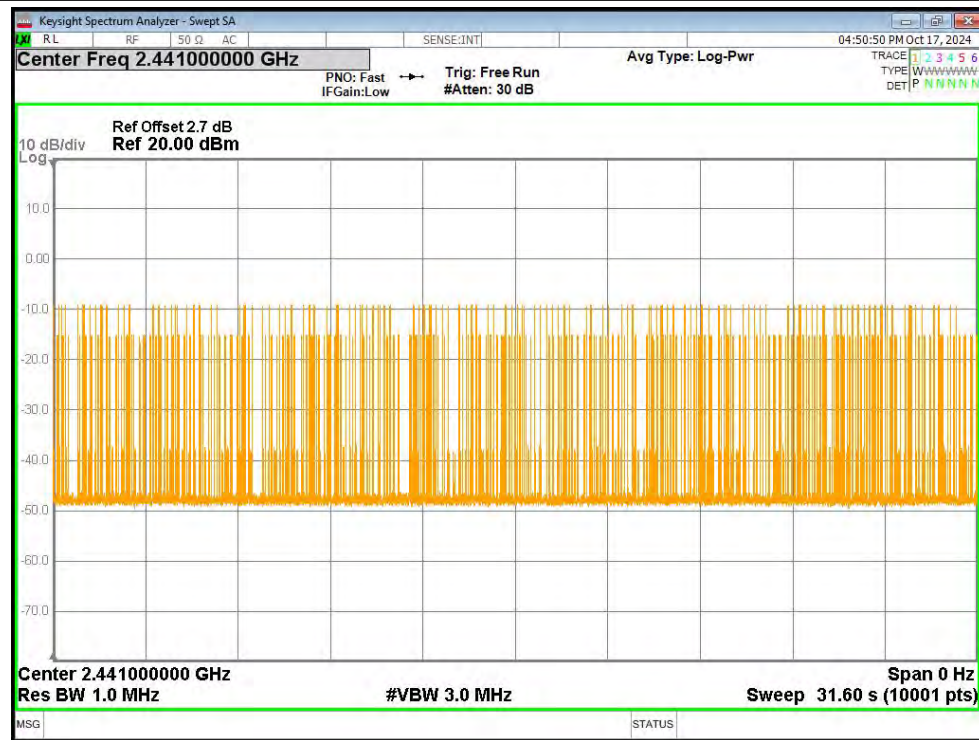
Center 2.441000000 GHz Span 0 Hz
Res BW 1.0 MHz #VBW 3.0 MHz Sweep 31.60 s (10001 pts)

MSG STATUS

Dwell NVNT 2-DH3 2441MHz Ant1 One Burst



Dwell NVNT 2-DH3 2441MHz Ant1 Accumulated



[illegible]

Keysight Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT 04:29:33 PM Oct 17, 2024

Center Freq 2.441000000 GHz Avg Type: Log-Pwr

PNO: Fast IFGain:Low Trig: Free Run #Atten: 30 dB

TRACE 1 2 3 4 5 6
TYPE W W W W W W W W
DET P N N N N N N

Ref Offset 2.7 dB
Ref 20.00 dBm

10 dB/div
Log

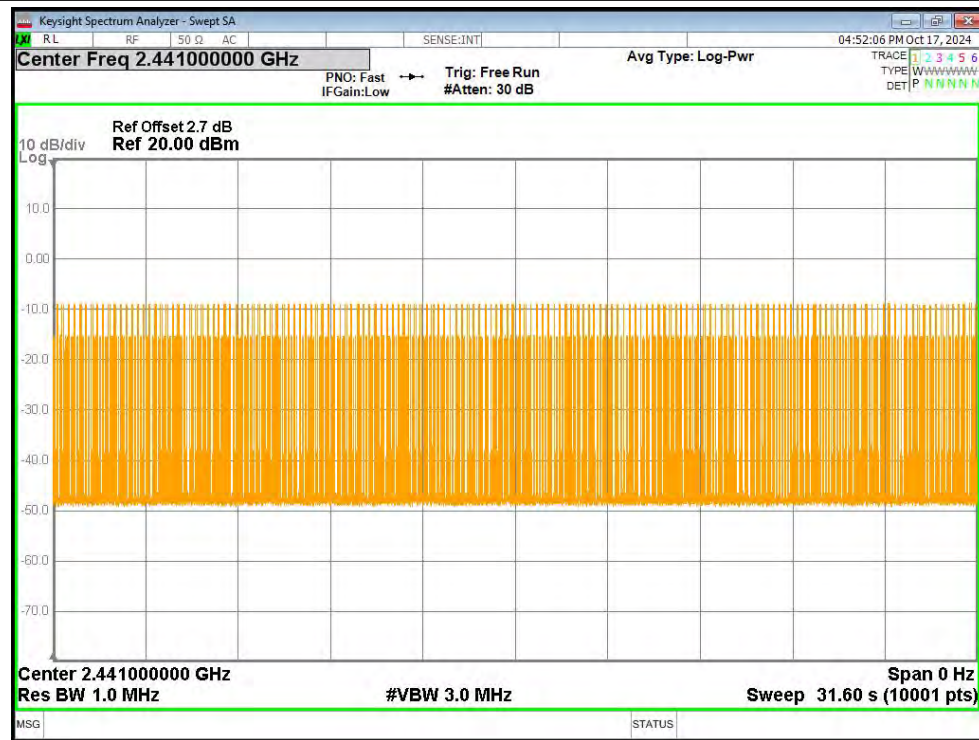
Center 2.441000000 GHz Span 0 Hz
Res BW 1.0 MHz #VBW 3.0 MHz Sweep 31.60 s (10001 pts)

MSG STATUS

Dwell NVNT 3-DH1 2441MHz Ant1 One Burst



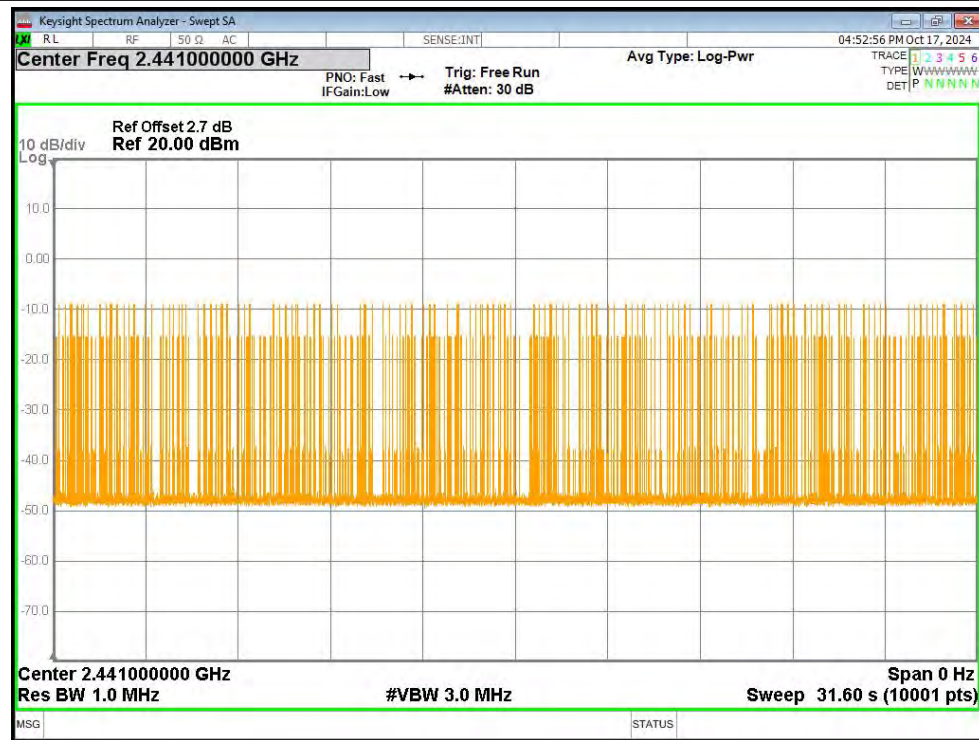
Dwell NVNT 3-DH1 2441MHz Ant1 Accumulated



Dwell NVNT 3-DH3 2441MHz Ant1 One Burst



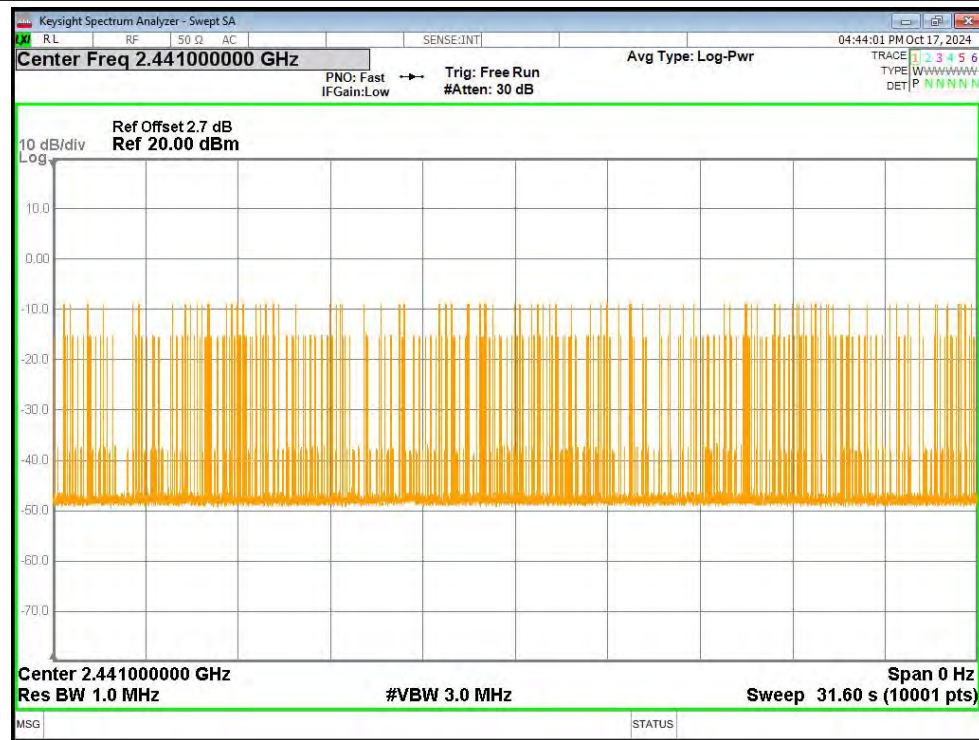
Dwell NVNT 3-DH3 2441MHz Ant1 Accumulated



Dwell NVNT 3-DH5 2441MHz Ant1 One Burst



Dwell NVNT 3-DH5 2441MHz Ant1 Accumulated

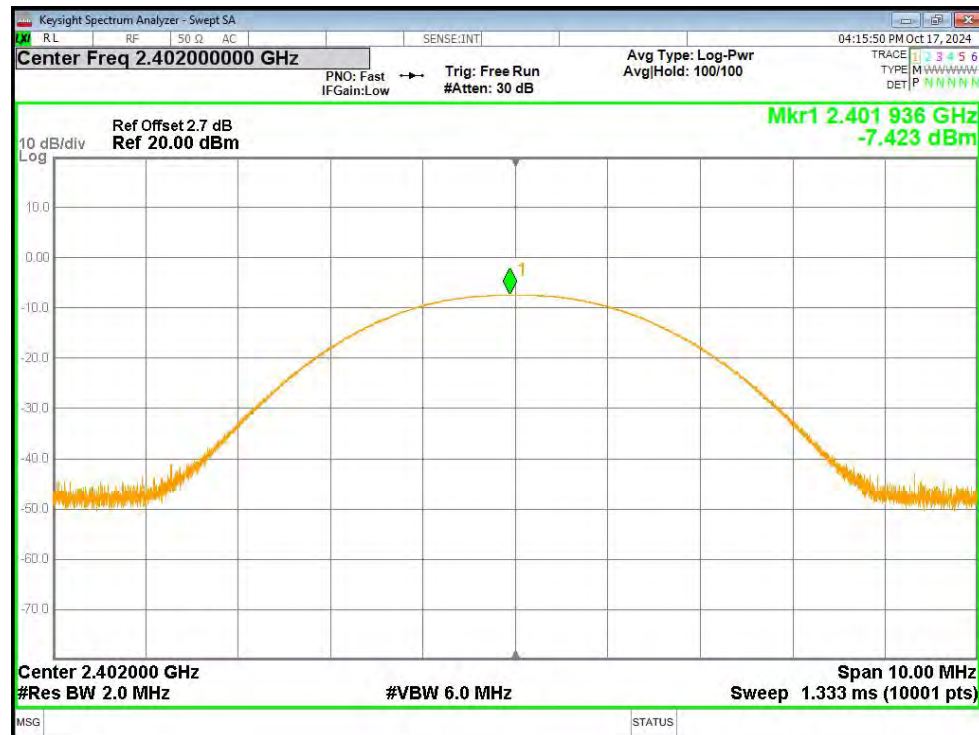


2.Maximum Peak Conducted Output Power

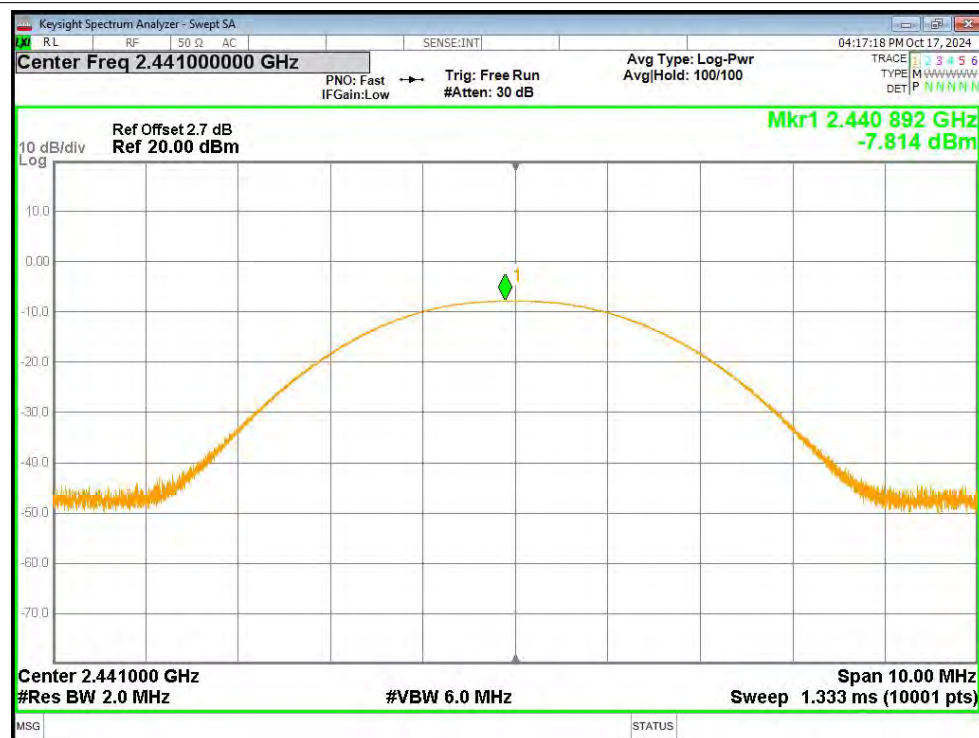
Mode	Frequency (MHz)	Total Power (dBm)	Limit (dBm)	Verdict
1-DH5	2402	-7.42	21	Pass
1-DH5	2441	-7.81	21	Pass
1-DH5	2480	-10.95	21	Pass
2-DH5	2402	-8.65	21	Pass
2-DH5	2441	-8.72	21	Pass
2-DH5	2480	-11.84	21	Pass
3-DH5	2402	-8.52	21	Pass
3-DH5	2441	-8.59	21	Pass
3-DH5	2480	-11.7	21	Pass

Test Graphs

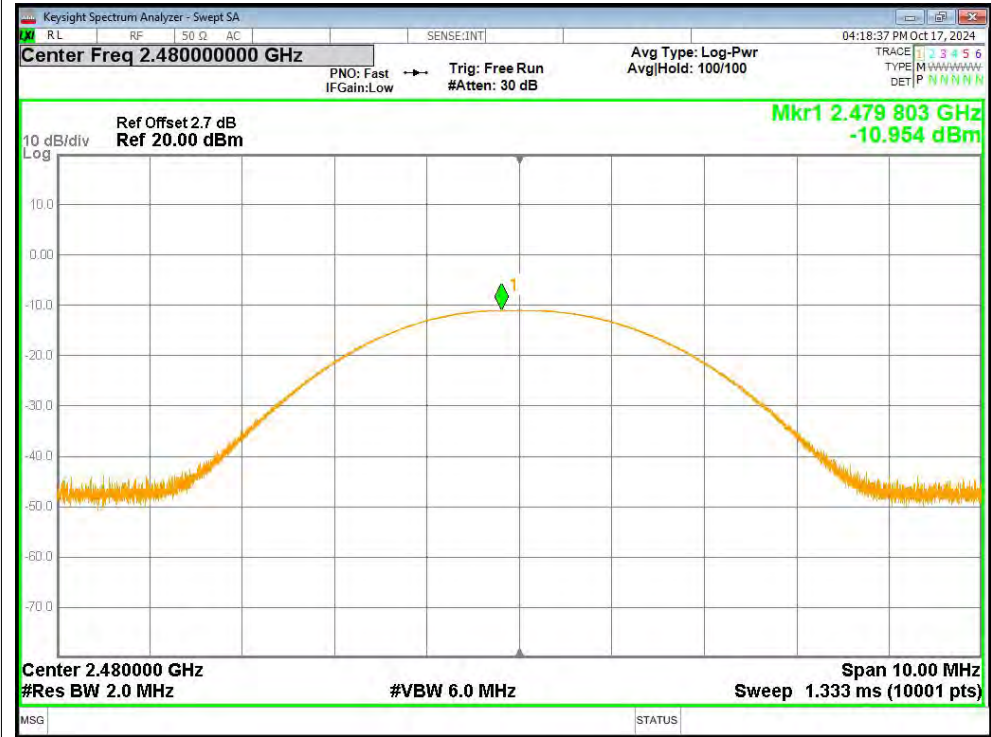
Peak Power NVNT 1-DH5 2402MHz Ant1



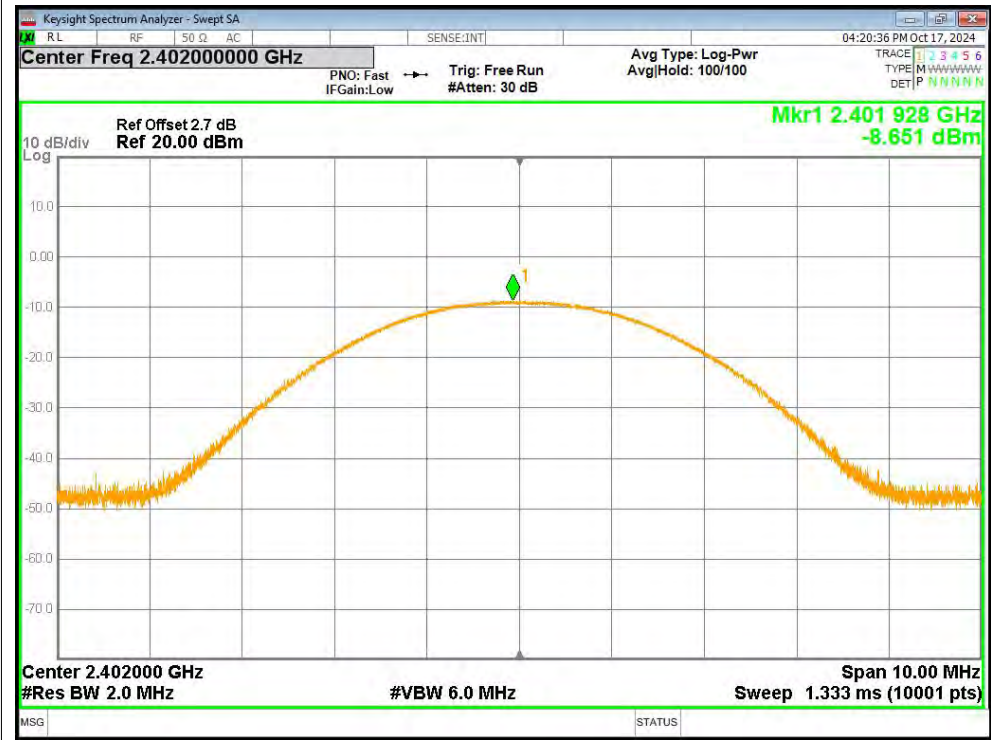
Peak Power NVNT 1-DH5 2441MHz Ant1



Peak Power NVNT 1-DH5 2480MHz Ant1



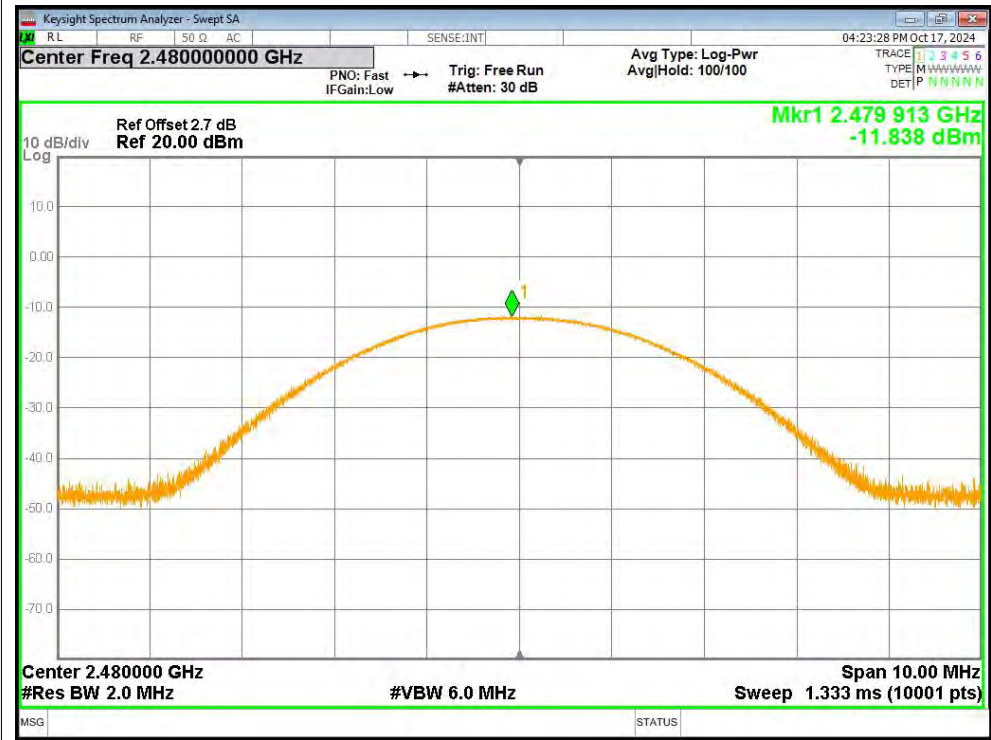
Peak Power NVNT 2-DH5 2402MHz Ant1



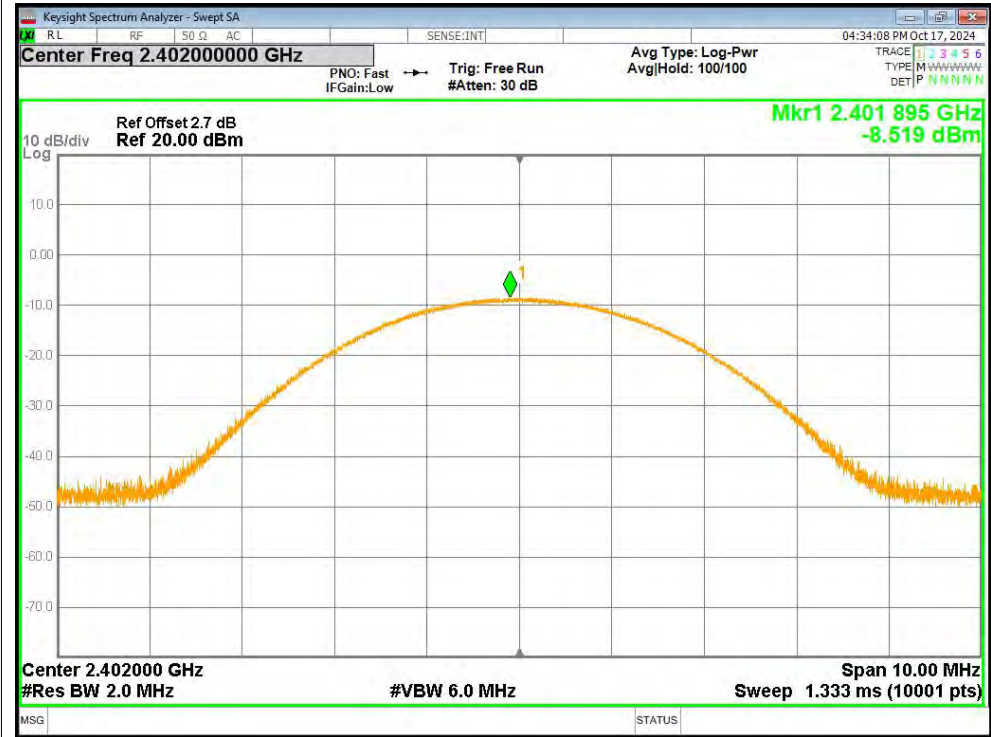
Peak Power NVNT 2-DH5 2441MHz Ant1



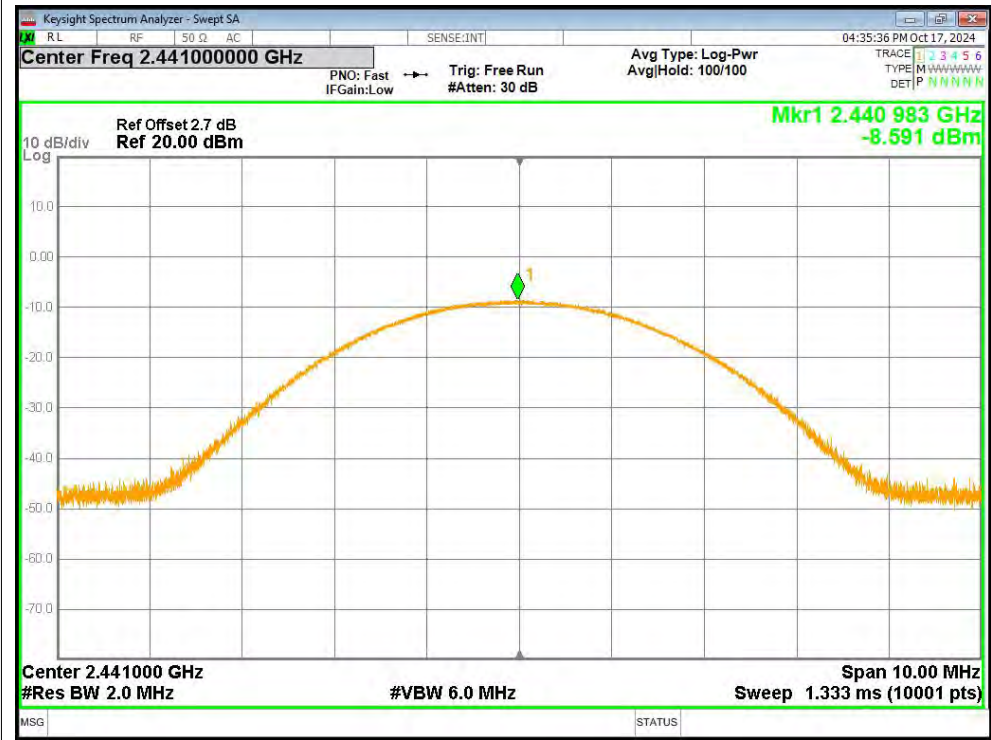
Peak Power NVNT 2-DH5 2480MHz Ant1



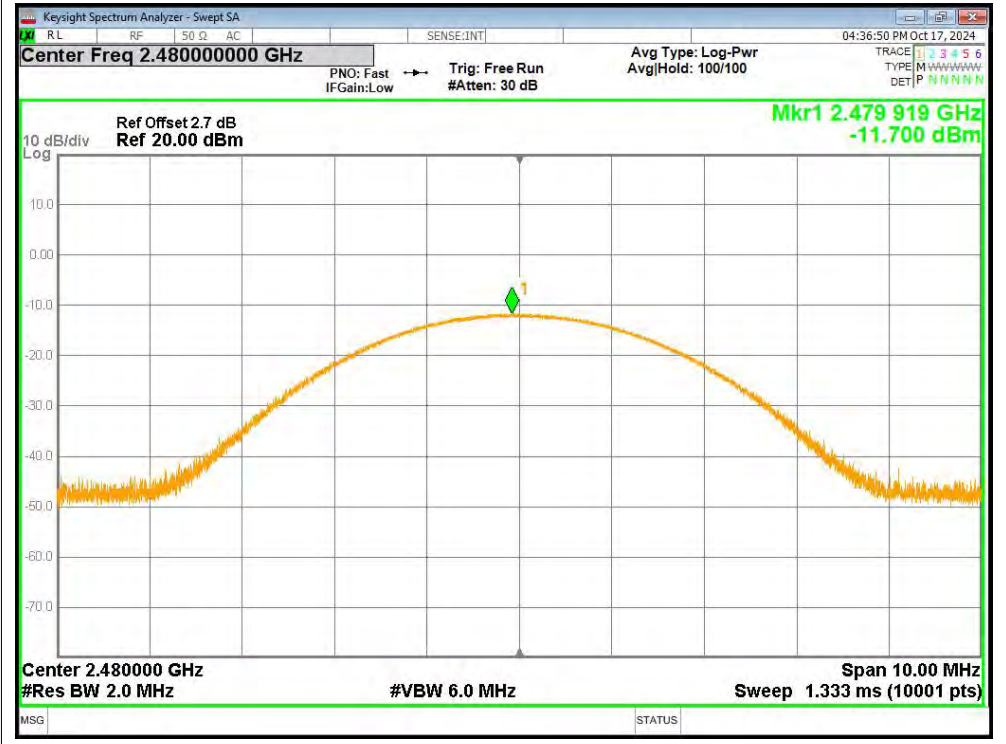
Peak Power NVNT 3-DH5 2402MHz Ant1



Peak Power NVNT 3-DH5 2441MHz Ant1



Peak Power NVNT 3-DH5 2480MHz Ant1

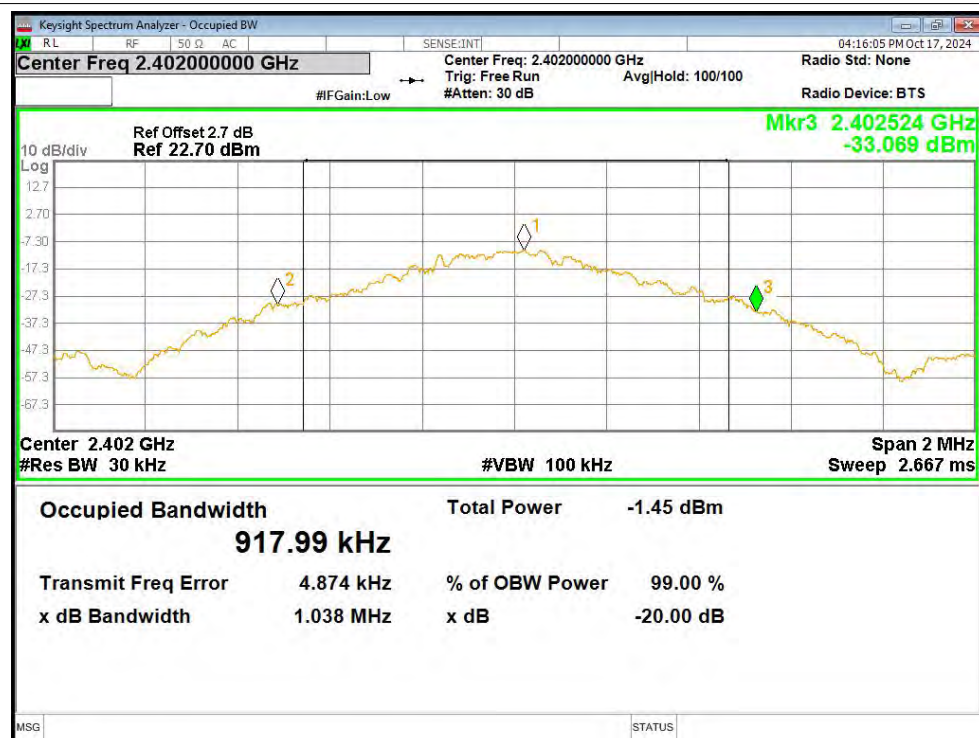


3.-20dB Bandwidth

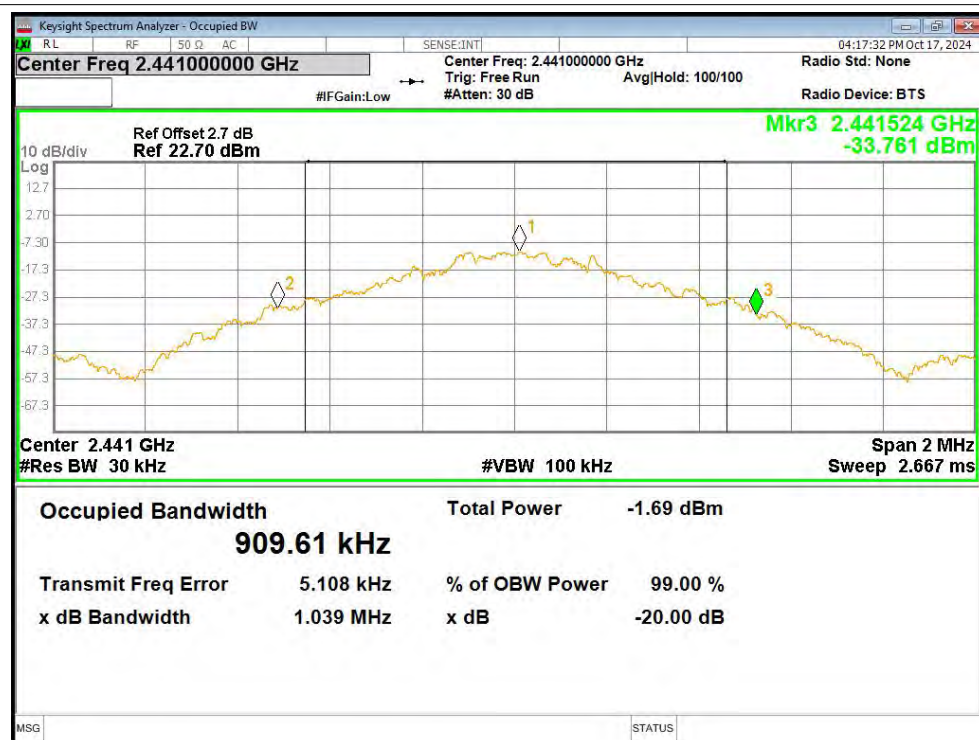
Mode	Frequency (MHz)	-20 dB Bandwidth (MHz)	Verdict
1-DH5	2402	1.038	Pass
1-DH5	2441	1.039	Pass
1-DH5	2480	1.029	Pass
2-DH5	2402	1.316	Pass
2-DH5	2441	1.32	Pass
2-DH5	2480	1.282	Pass
3-DH5	2402	1.301	Pass
3-DH5	2441	1.299	Pass
3-DH5	2480	1.307	Pass

Test Graphs

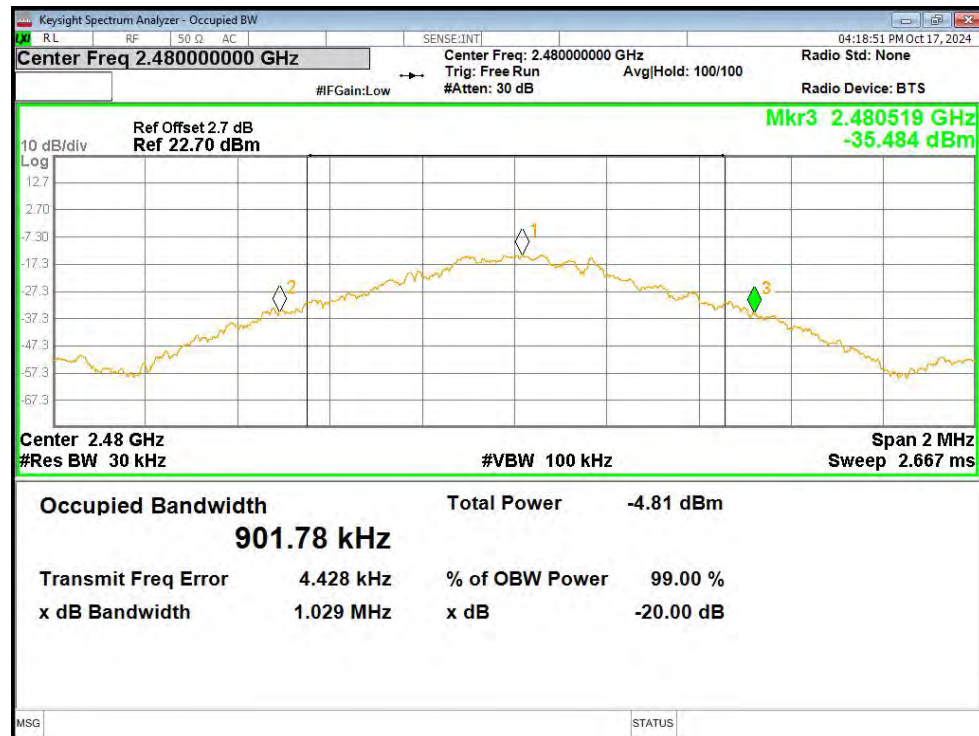
-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



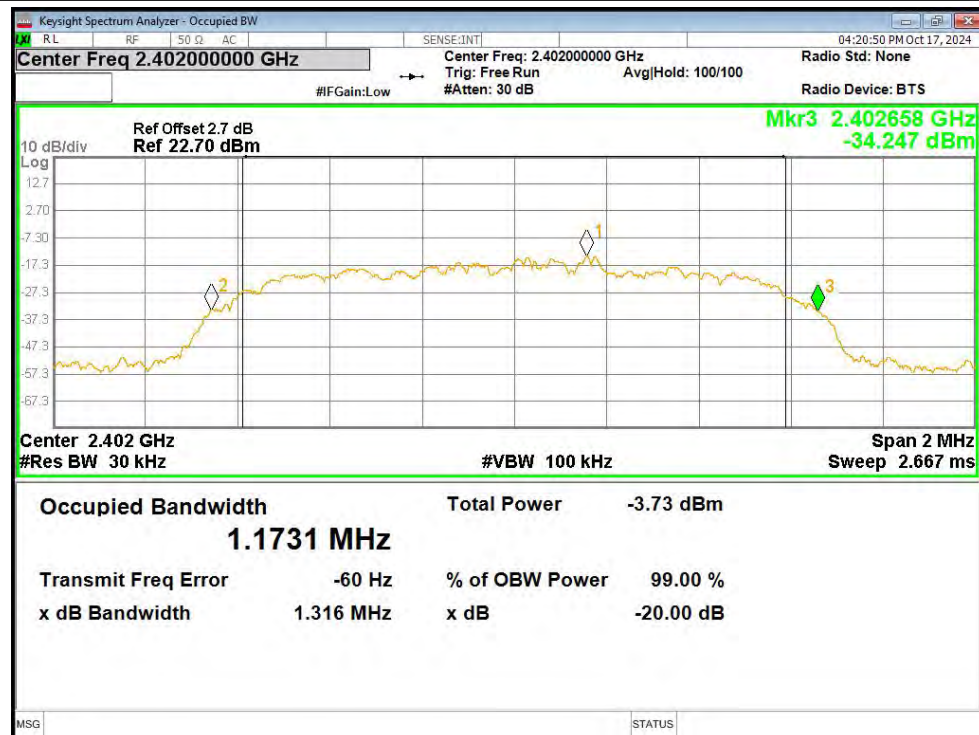
-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



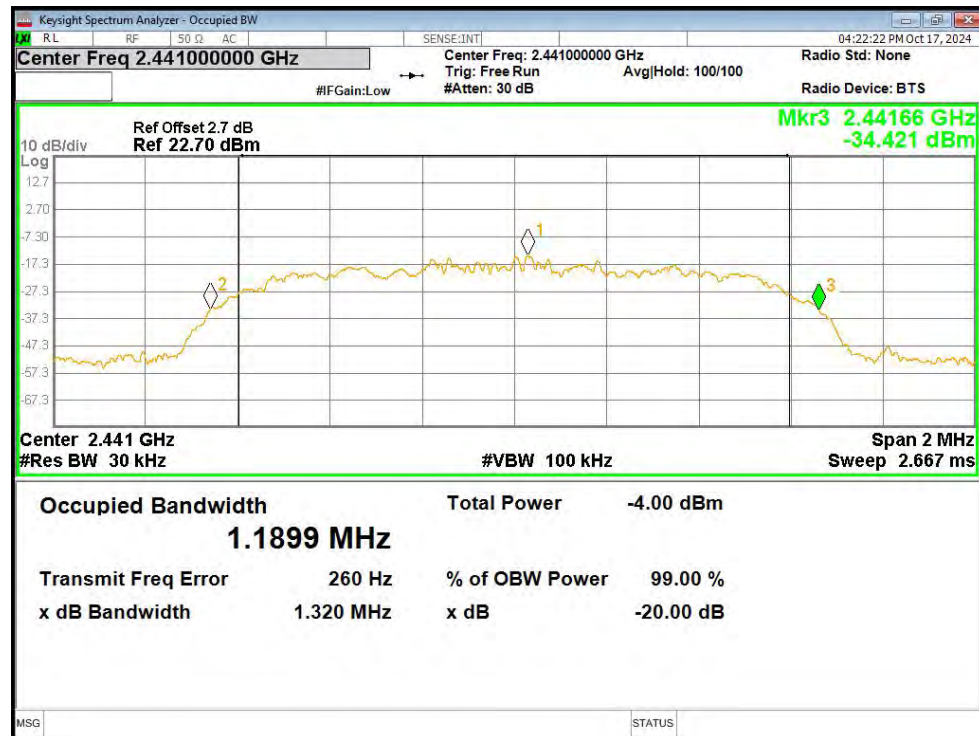
-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



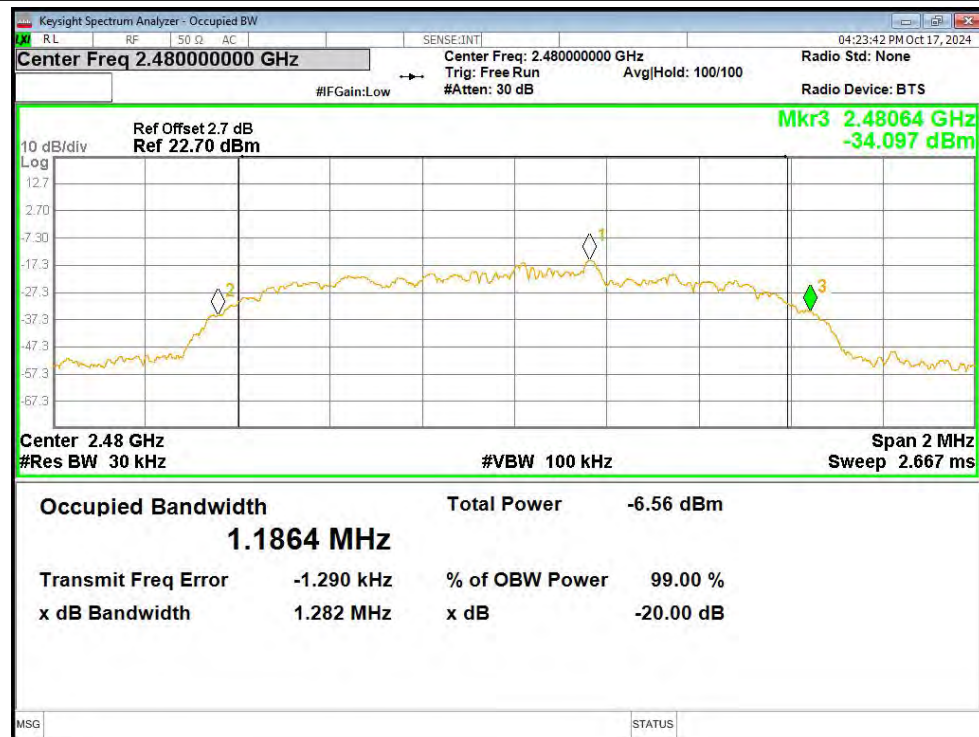
-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



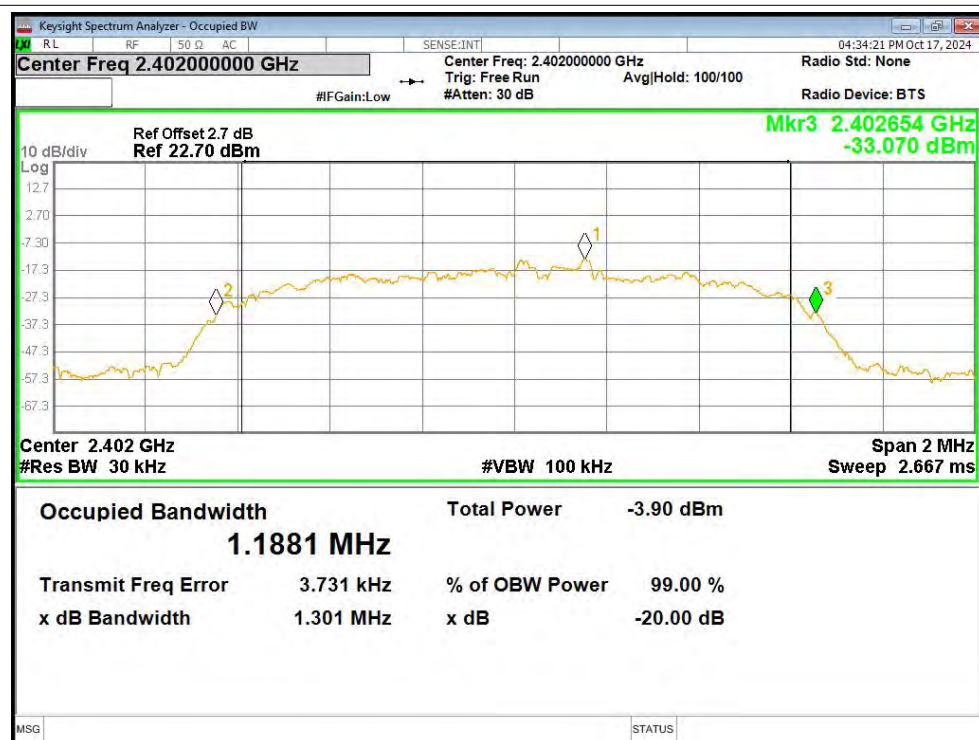
-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



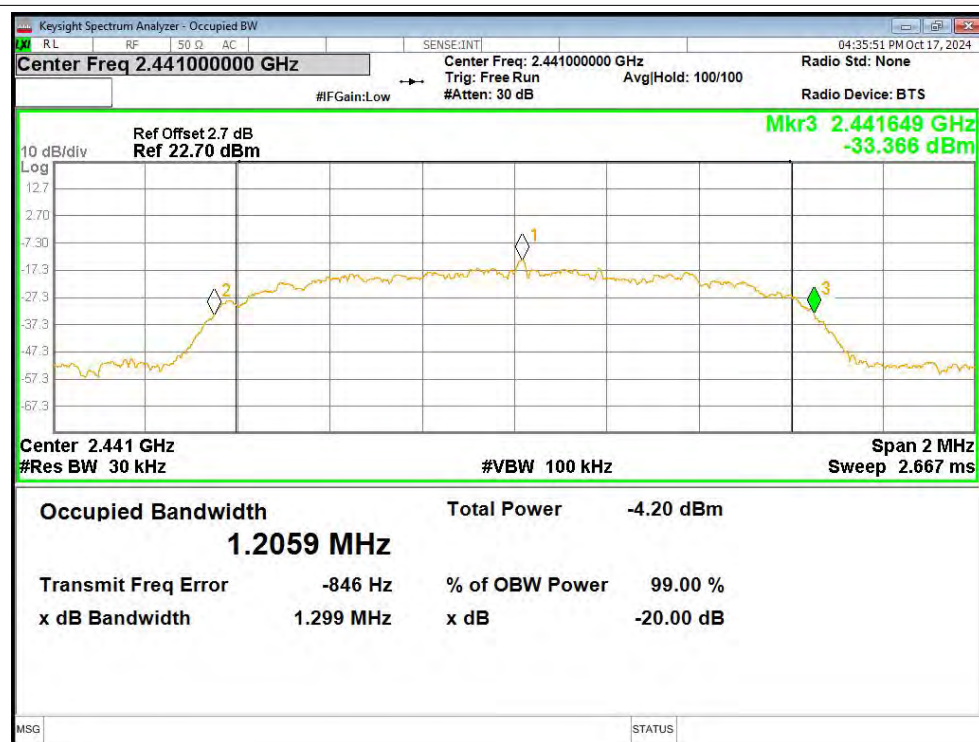
-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



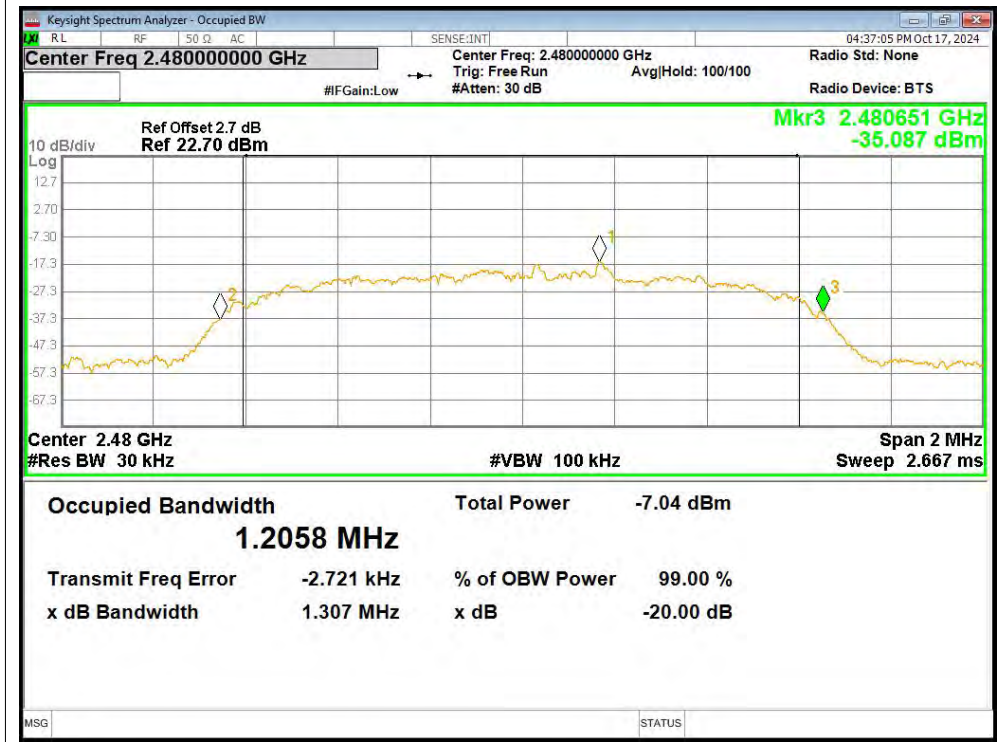
-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1



4.Occupied Channel Bandwidth

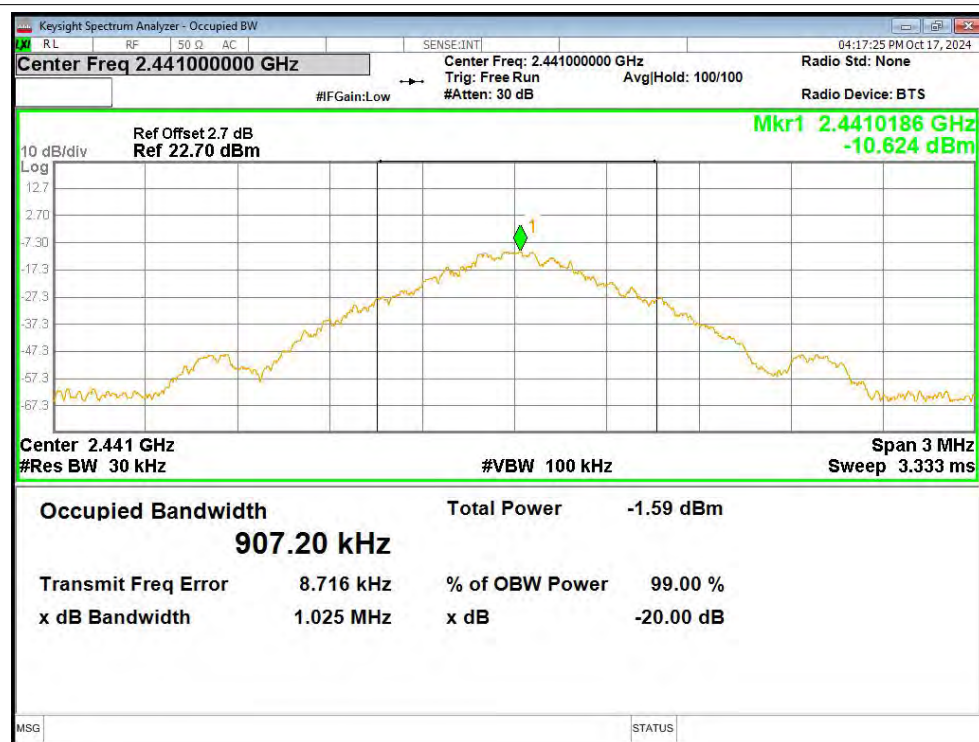
Mode	Frequency (MHz)	99% OBW (MHz)
1-DH5	2402	0.911
1-DH5	2441	0.907
1-DH5	2480	0.9
2-DH5	2402	1.185
2-DH5	2441	1.192
2-DH5	2480	1.195
3-DH5	2402	1.189
3-DH5	2441	1.198
3-DH5	2480	1.217

Test Graphs

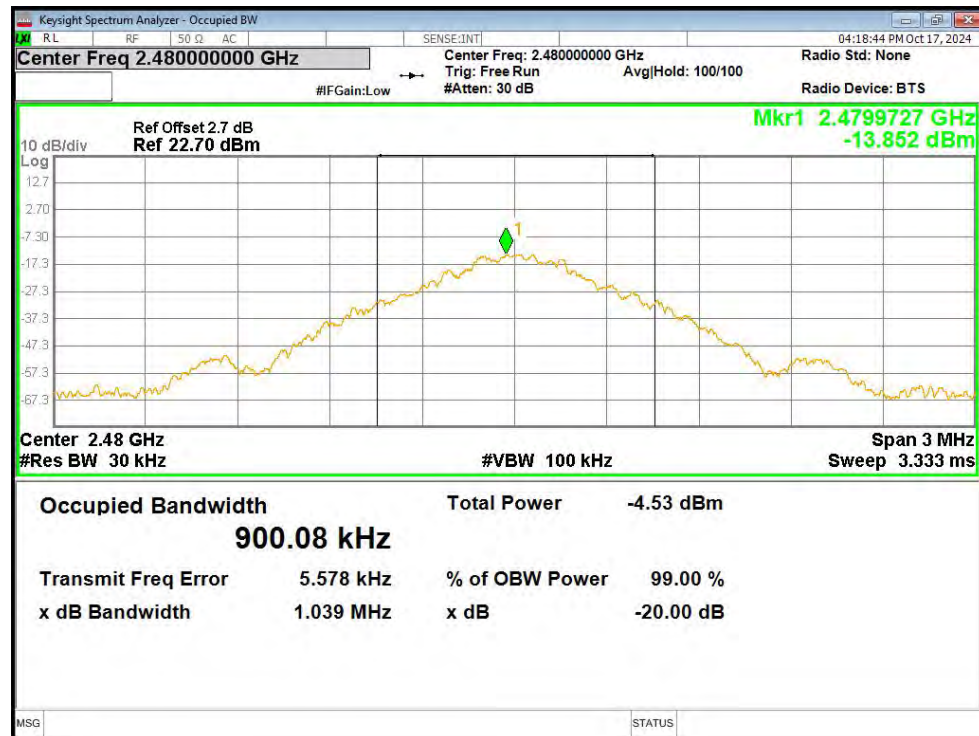
OBW NVNT 1-DH5 2402MHz Ant1



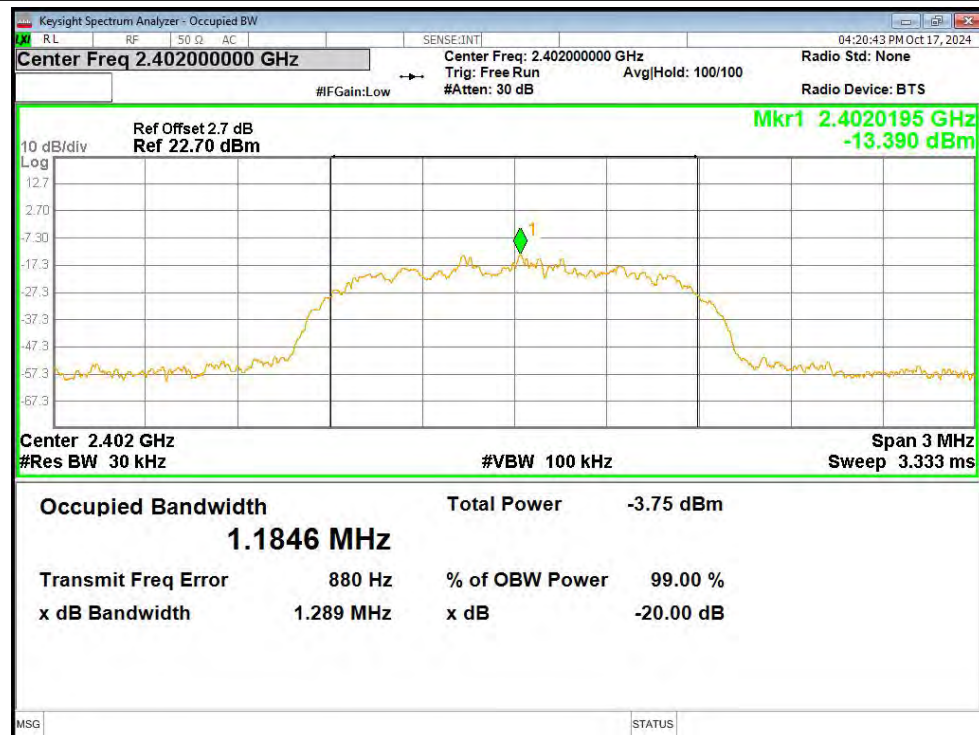
OBW NVNT 1-DH5 2441MHz Ant1



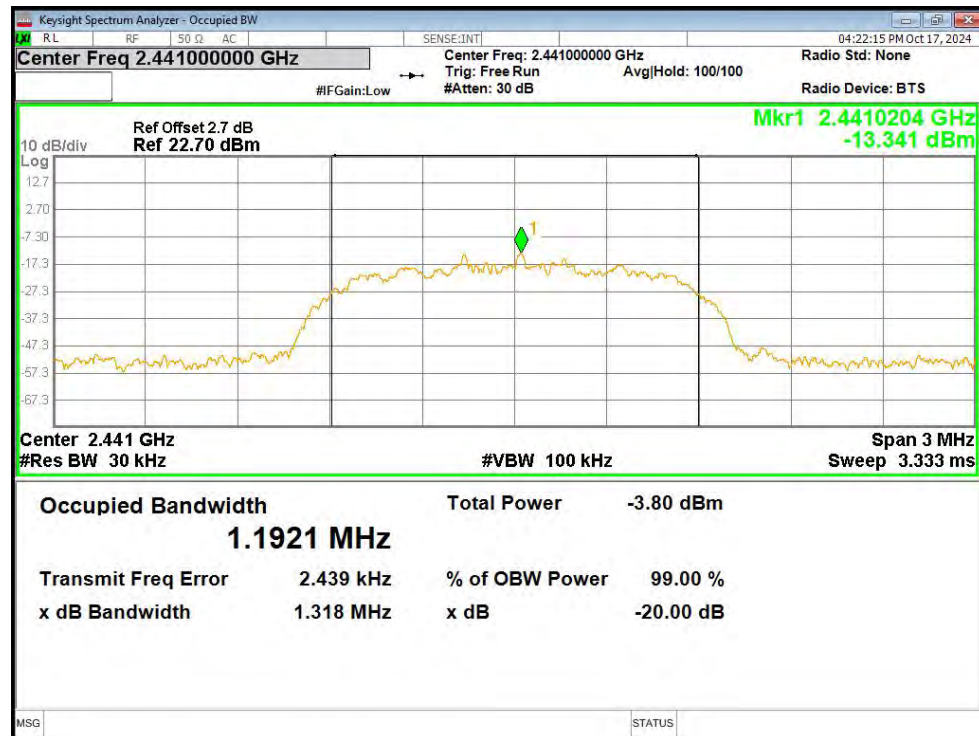
OBW NVNT 1-DH5 2480MHz Ant1



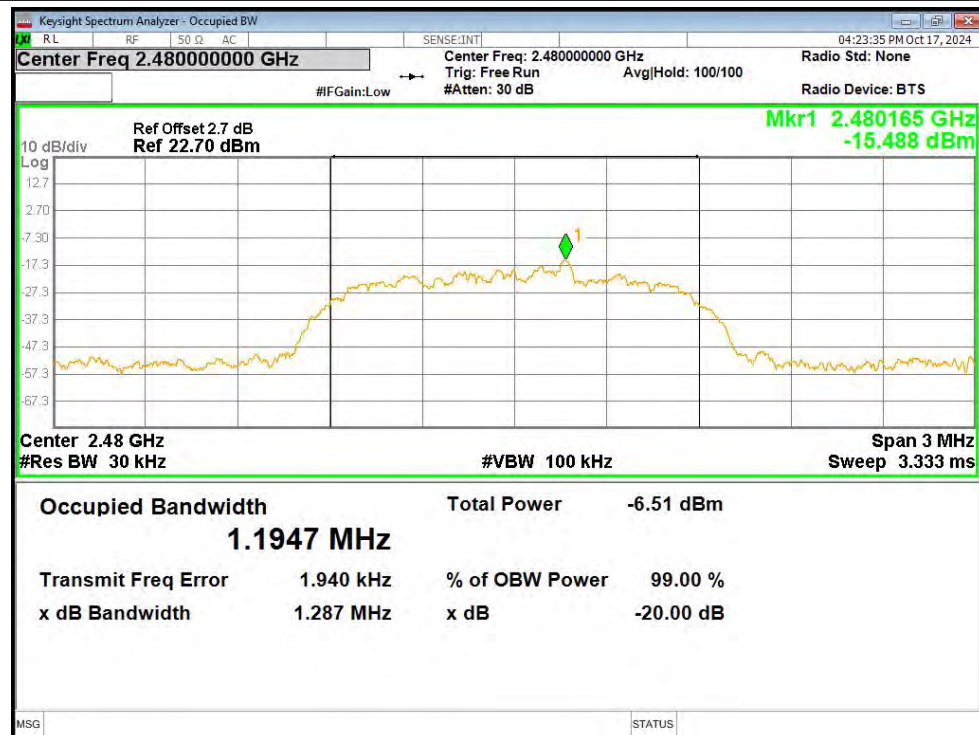
OBW NVNT 2-DH5 2402MHz Ant1



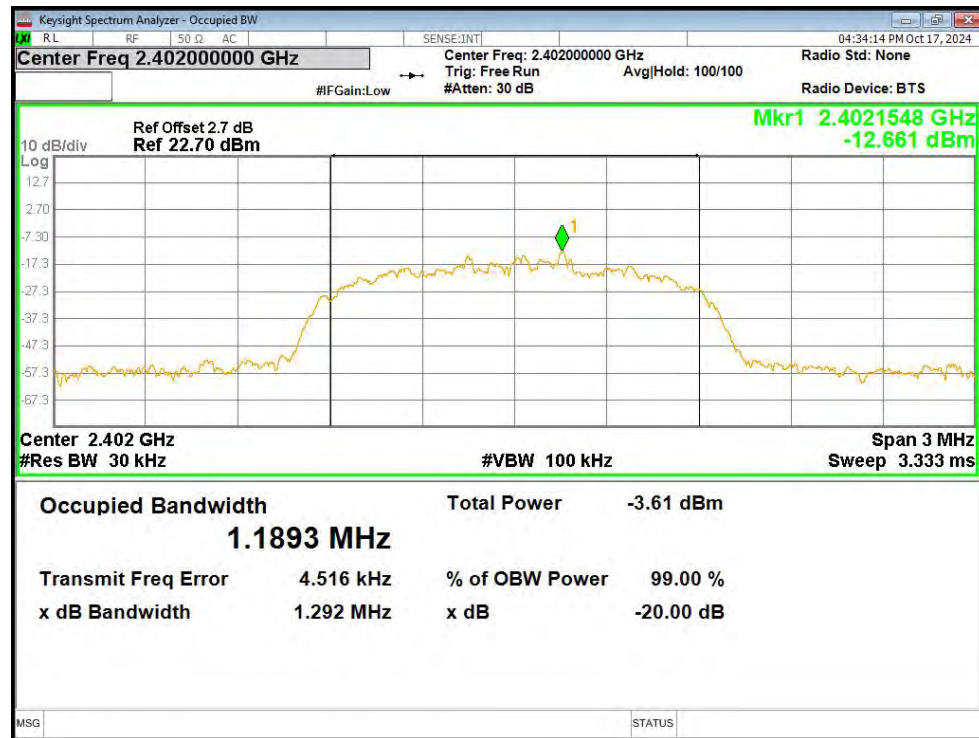
OBW NVNT 2-DH5 2441MHz Ant1



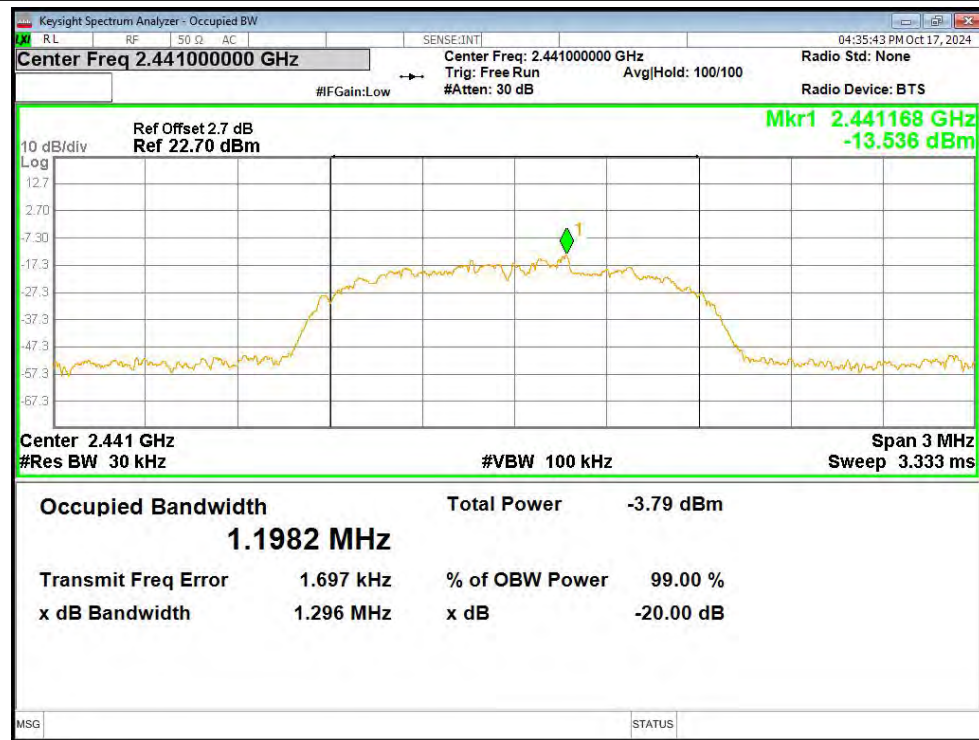
OBW NVNT 2-DH5 2480MHz Ant1



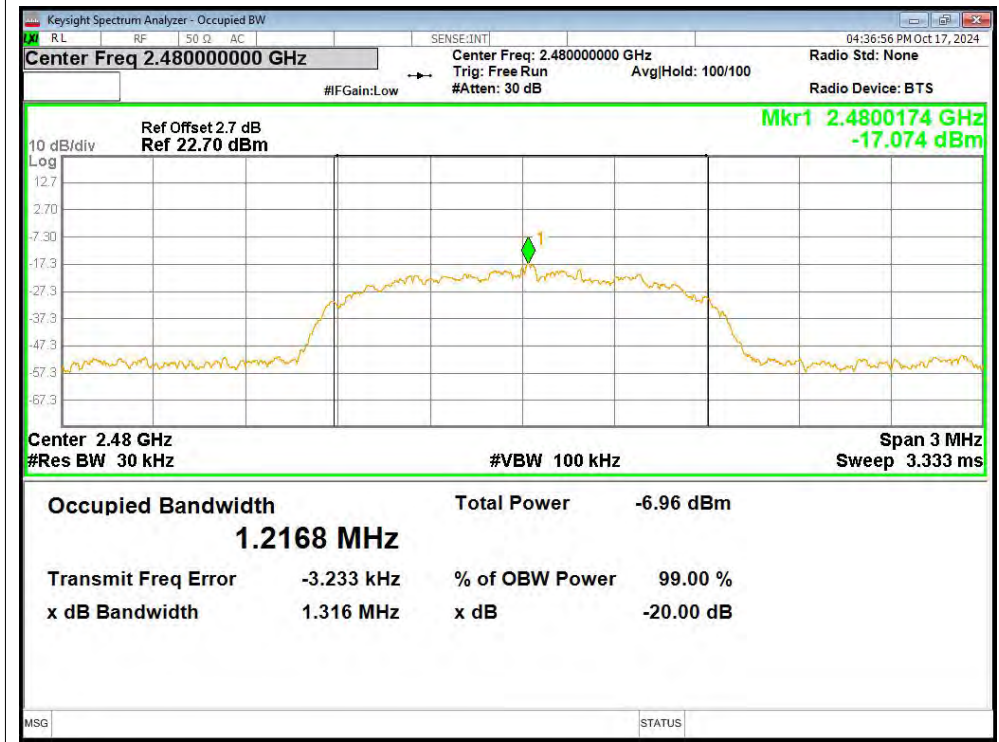
OBW NVNT 3-DH5 2402MHz Ant1



OBW NVNT 3-DH5 2441MHz Ant1



OBW NVNT 3-DH5 2480MHz Ant1



5.Carrier Frequencies Separation

Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
1-DH5	2402.012	2402.994	0.982	0.663	Pass
1-DH5	2440.974	2442.014	1.04	0.591	Pass
1-DH5	2478.972	2479.968	0.996	0.596	Pass
2-DH5	2402.024	2403.022	0.998	0.877	Pass
2-DH5	2441.164	2442.164	1	0.88	Pass
2-DH5	2479.016	2480.17	1.154	0.855	Pass
3-DH5	2402.16	2403.032	0.872	0.867	Pass
3-DH5	2441.172	2442.166	0.994	0.866	Pass
3-DH5	2479.134	2480.008	0.874	0.871	Pass

Test Graphs

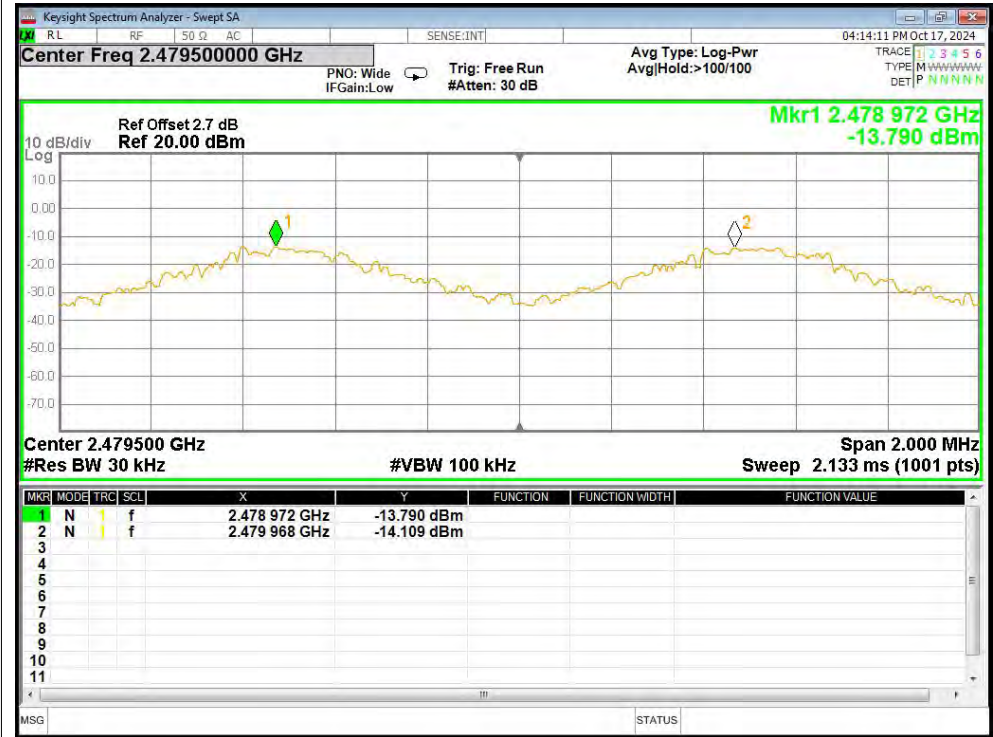
CFS NVNT 1-DH5 2402MHz Ant1



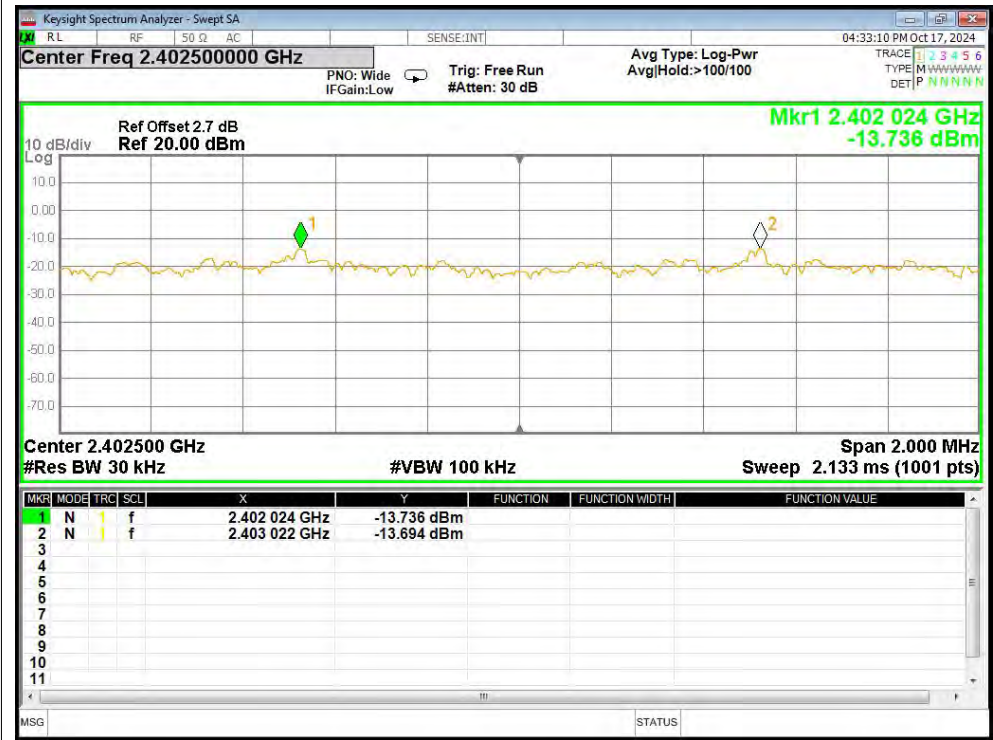
CFS NVNT 1-DH5 2441MHz Ant1



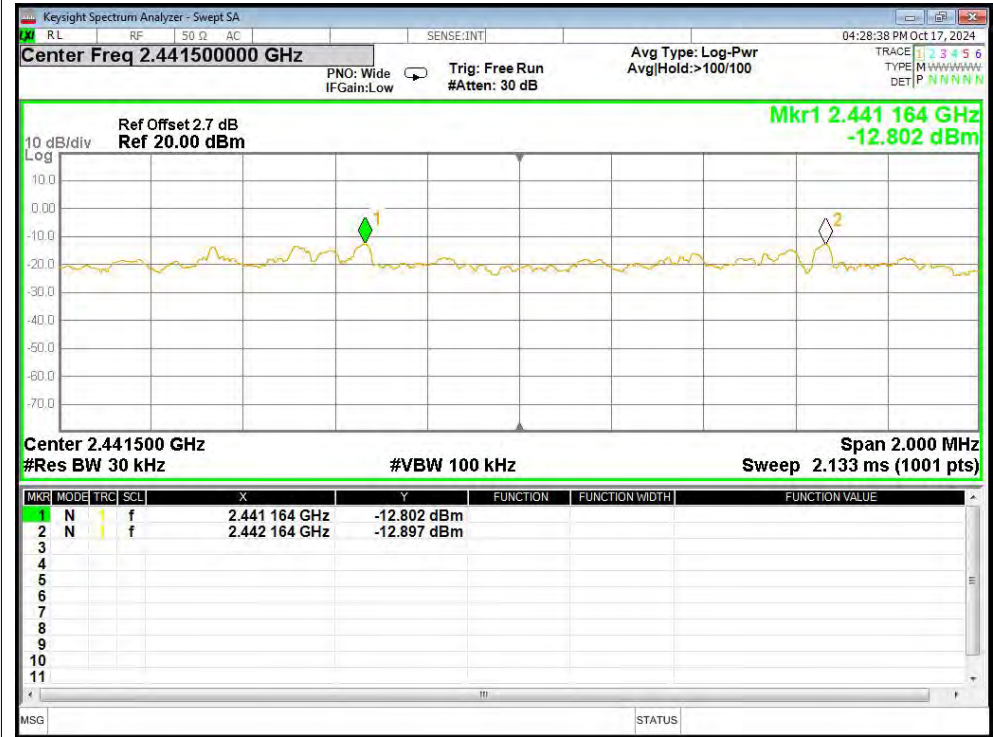
CFS NVNT 1-DH5 2480MHz Ant1



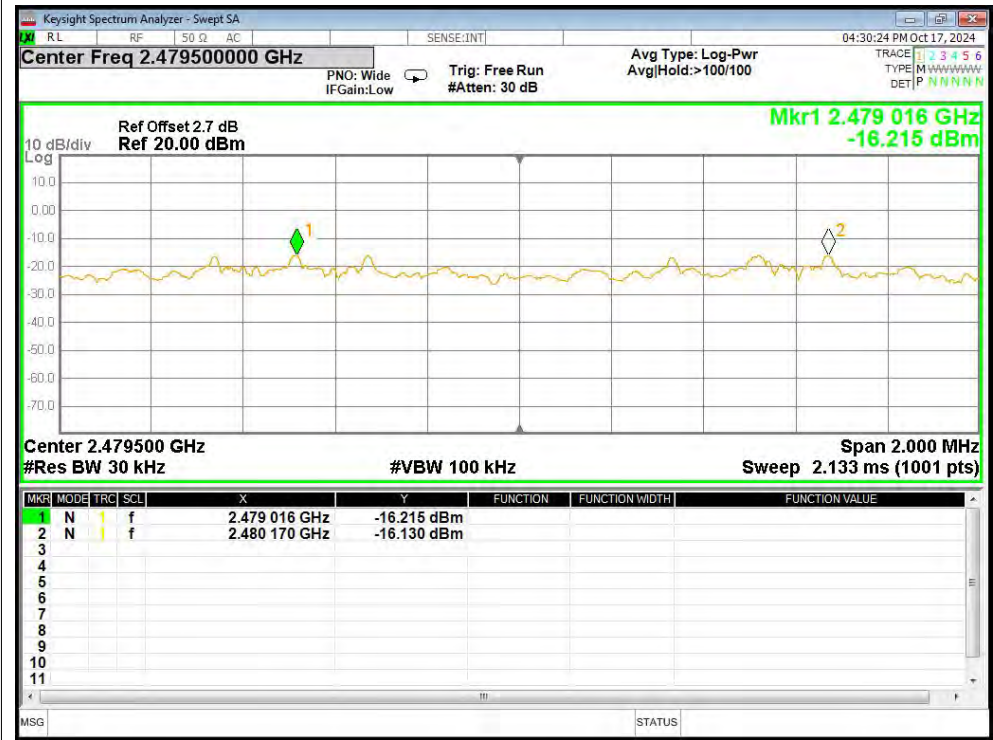
CFS NVNT 2-DH5 2402MHz Ant1



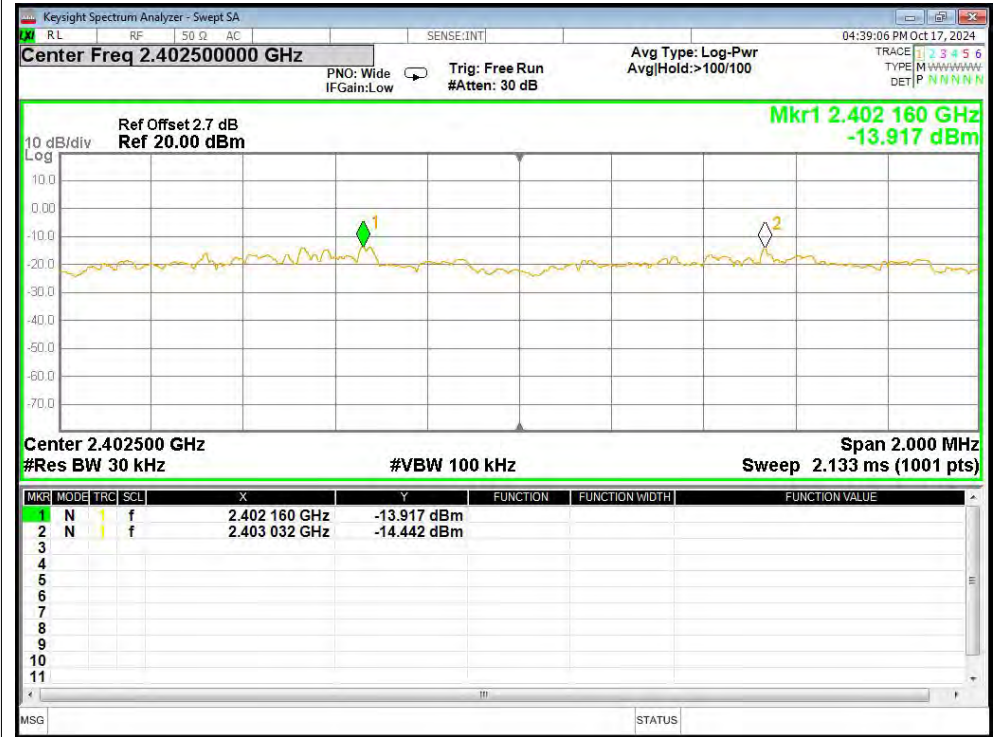
CFS NVNT 2-DH5 2441MHz Ant1



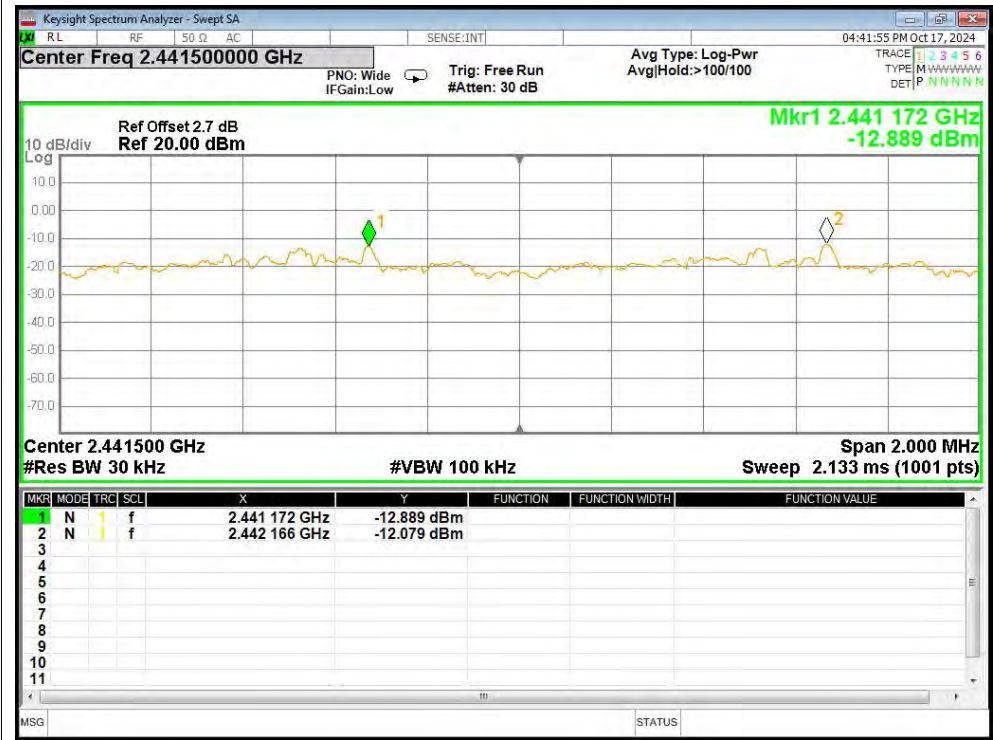
CFS NVNT 2-DH5 2480MHz Ant1



CFS NVNT 3-DH5 2402MHz Ant1



CFS NVNT 3-DH5 2441MHz Ant1



CFS NVNT 3-DH5 2480MHz Ant1



6.Number of Hopping Channel

Mode	Hopping Number	Limit	Verdict
1-DH5	79	15	Pass
2-DH5	79	15	Pass
3-DH5	79	15	Pass

Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 1-DH5 2441MHz Ant1



Hopping No. NVNT 1-DH5 2480MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2441MHz Ant1



Hopping No. NVNT 2-DH5 2480MHz Ant1



Hopping No. NVNT 3-DH5 2402MHz Ant1



Hopping No. NVNT 3-DH5 2441MHz Ant1



Hopping No. NVNT 3-DH5 2480MHz Ant1

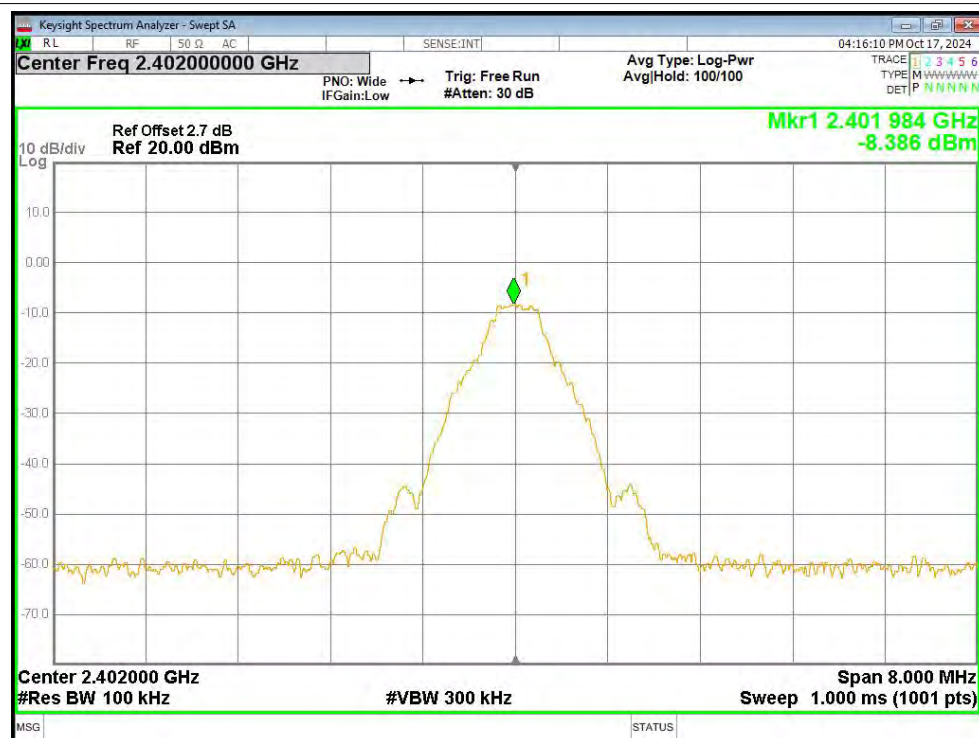


7.Band Edge

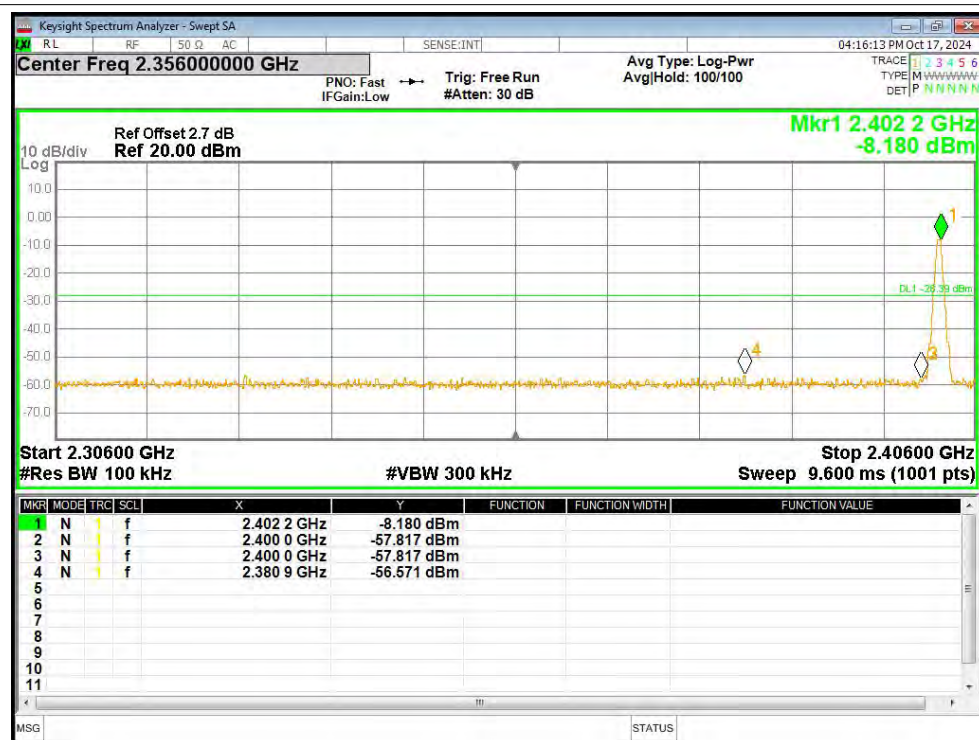
Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
1-DH5	2402	No-Hopping	-48.18	-20	Pass
1-DH5	2480	No-Hopping	-45.56	-20	Pass
2-DH5	2402	No-Hopping	-44.73	-20	Pass
2-DH5	2480	No-Hopping	-44.27	-20	Pass
3-DH5	2402	No-Hopping	-46.62	-20	Pass
3-DH5	2480	No-Hopping	-41.43	-20	Pass

Test Graphs

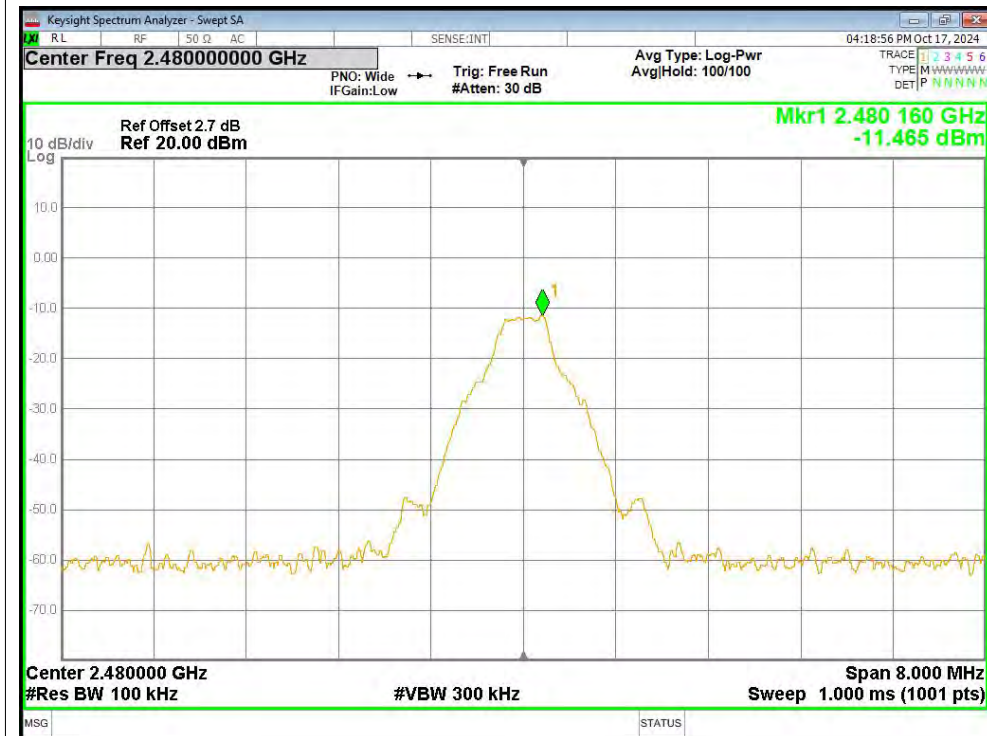
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

