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FCC ID EDR

FCC_BT(Part15.247) Test Data

1.Dwell Time

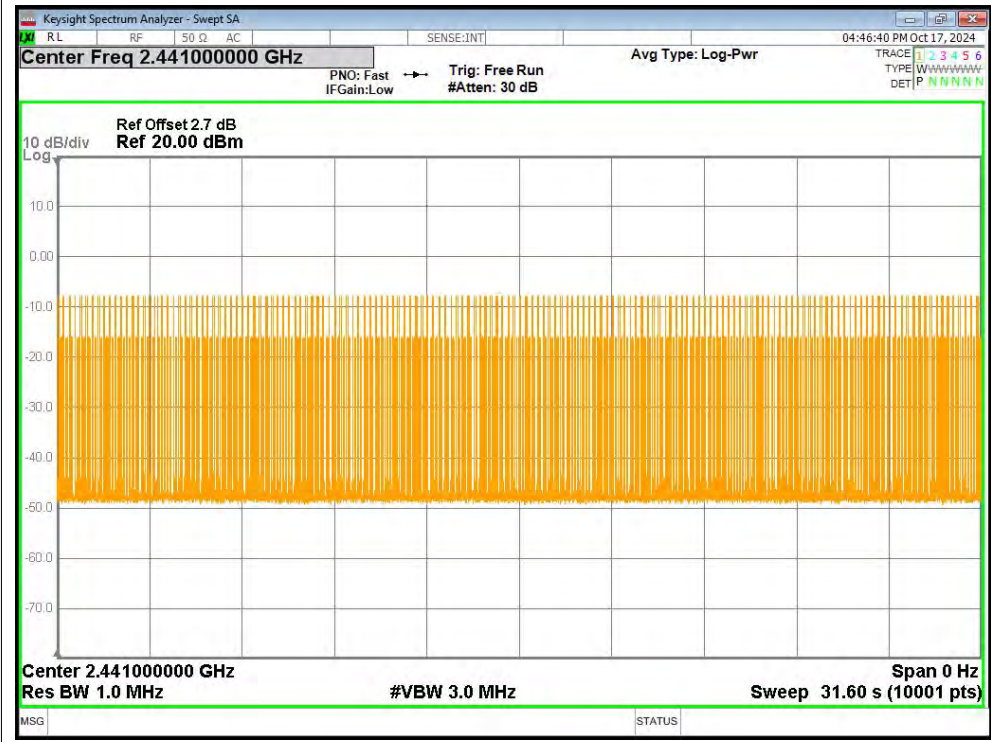
Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
1-DH1	2441	0.376	118.816	316	31600	400	Pass
1-DH3	2441	1.634	258.172	158	31600	400	Pass
1-DH5	2441	2.882	325.666	113	31600	400	Pass
2-DH1	2441	0.385	122.045	317	31600	400	Pass
2-DH3	2441	1.635	255.06	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



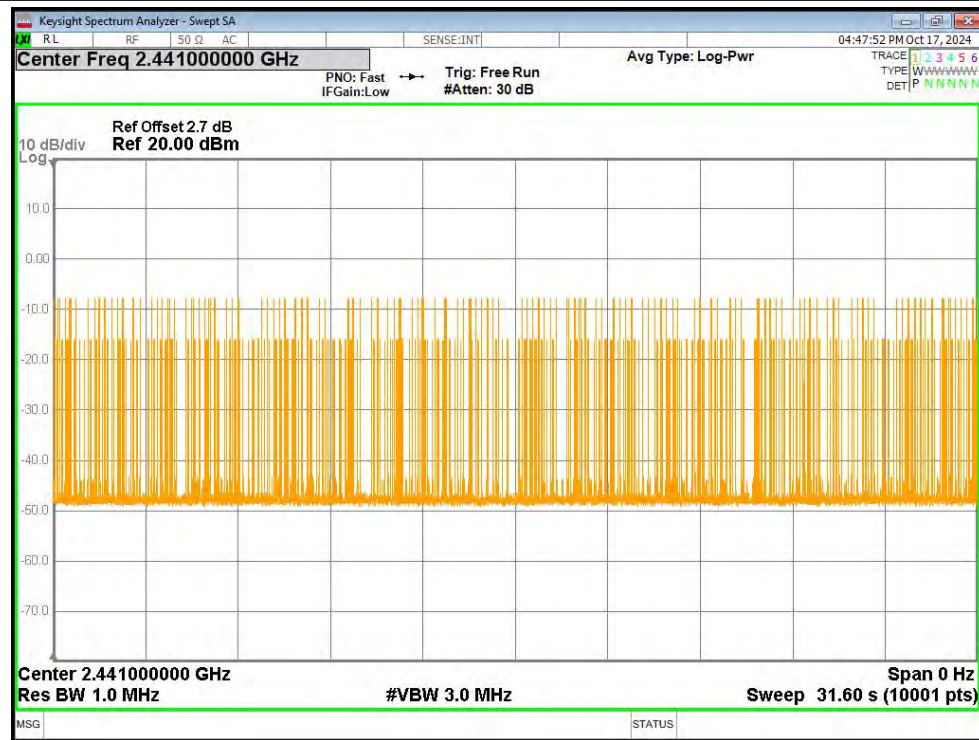
Dwell NVNT 1-DH1 2441MHz Ant1 Accumulated



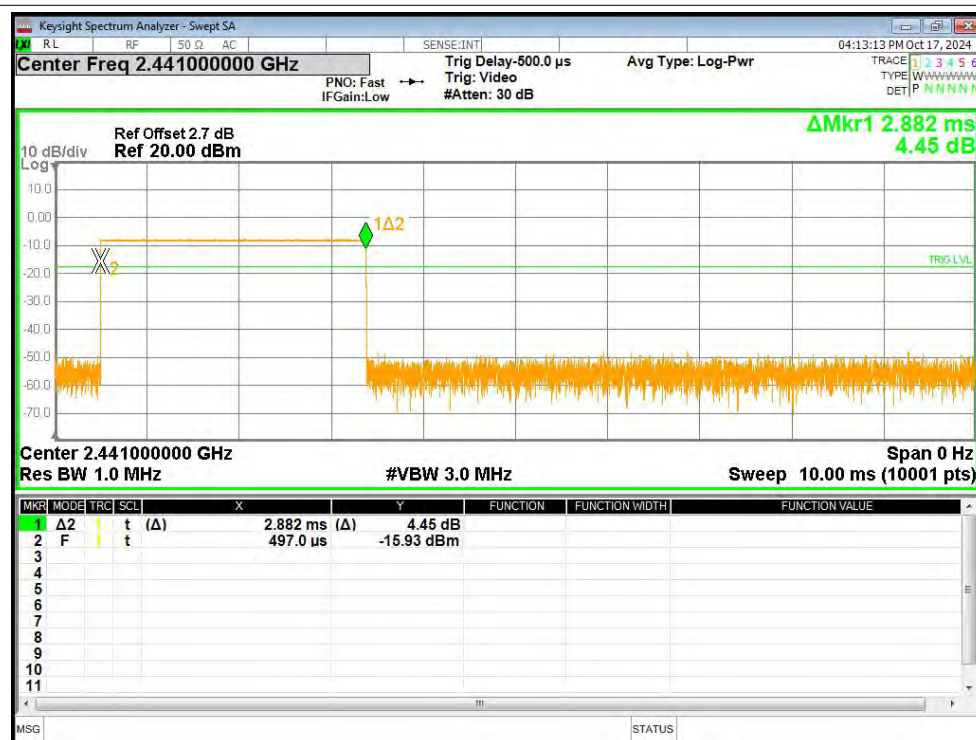
Dwell NVNT 1-DH3 2441MHz Ant1 One Burst



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

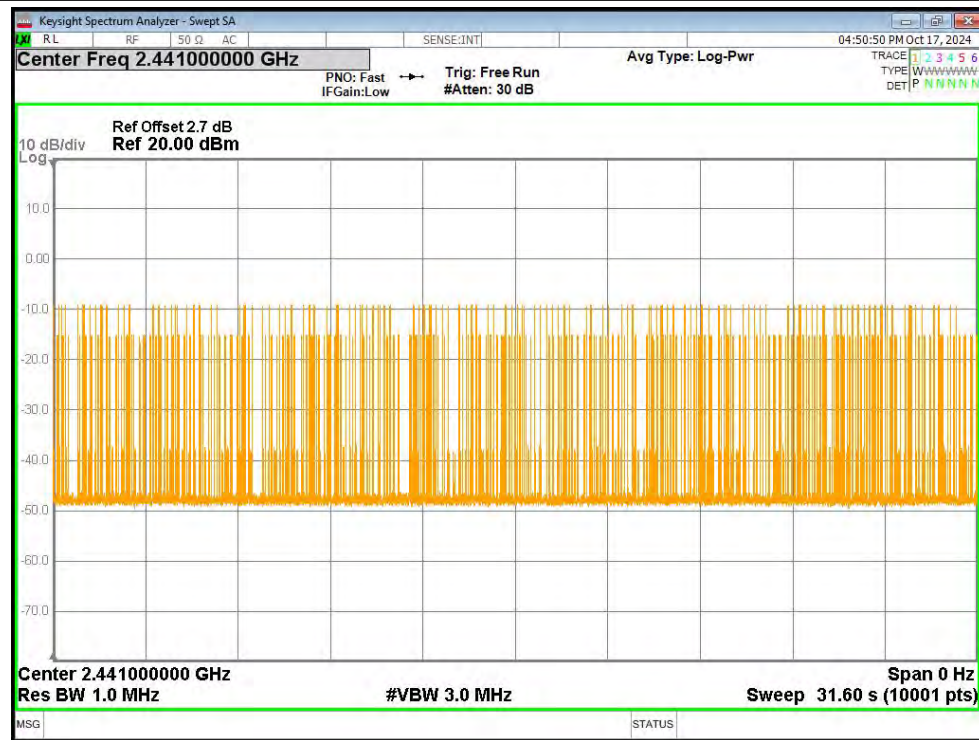
Center 2.441000000 GHz Span 0 Hz
Res BW 1.0 MHz #VBW 3.0 MHz Sweep 31.60 s (10001 pts)

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)

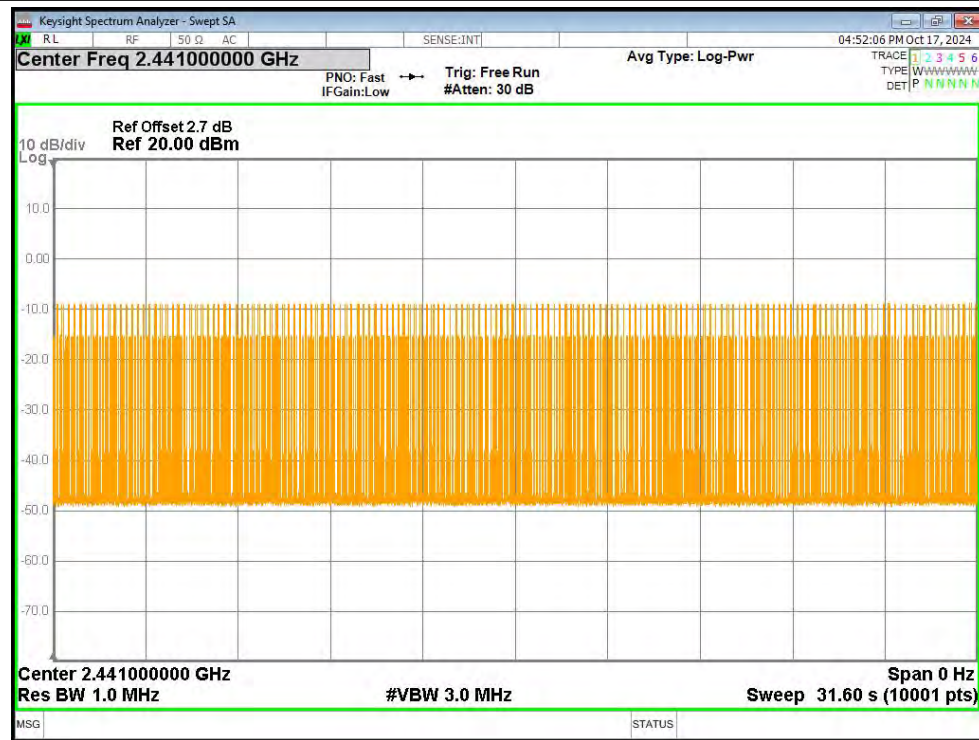
MSG STATUS

Detailed description: This is a screenshot of a Keysight Spectrum Analyzer. The main display area shows a spectral plot with a dense, noisy signal. The signal consists of many vertical spikes of varying heights, mostly concentrated between -40 dBm and -50 dBm, with some spikes reaching up to -10 dBm. The background is a light gray grid. Above the plot, there are several control parameters: 'Center Freq 2.441000000 GHz', 'Avg Type: Log-Pwr', 'PNO: Fast', 'IFGain:Low', 'Trig: Free Run', and '#Atten: 30 dB'. There are also some status indicators like 'TRACE 1', 'TYPE W W W W W W W W', and 'DET P N N N N N N'. Below the plot, the status bar shows 'Center 2.441000000 GHz', 'Span 0 Hz', 'Res BW 1.0 MHz', '#VBW 3.0 MHz', and 'Sweep 31.60 s (10001 pts)'. The top of the screen shows the software name 'Keysight Spectrum Analyzer - Swept SA' and the date/time '04:29:33 PM Oct 17, 2024'. The bottom of the screen has a status bar with 'MSG' and 'STATUS' indicators.

Dwell NVNT 3-DH1 2441MHz Ant1 One Burst



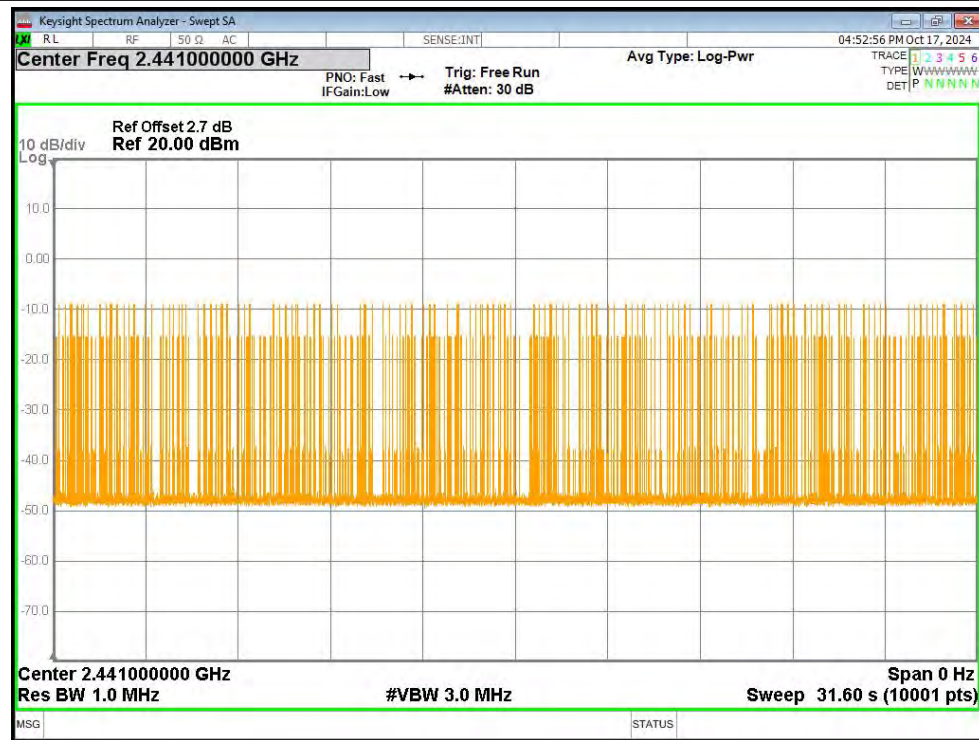
Dwell NVNT 3-DH1 2441MHz Ant1 Accumulated



Dwell NVNT 3-DH3 2441MHz Ant1 One Burst



Dwell NVNT 3-DH3 2441MHz Ant1 Accumulated



[illegible]

Keysight Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT 04:44:01 PM Oct 17, 2024

Center Freq 2.441000000 GHz PNO: Fast IFGain:Low Trig: Free Run #Atten: 30 dB Avg Type: Log-Pwr

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

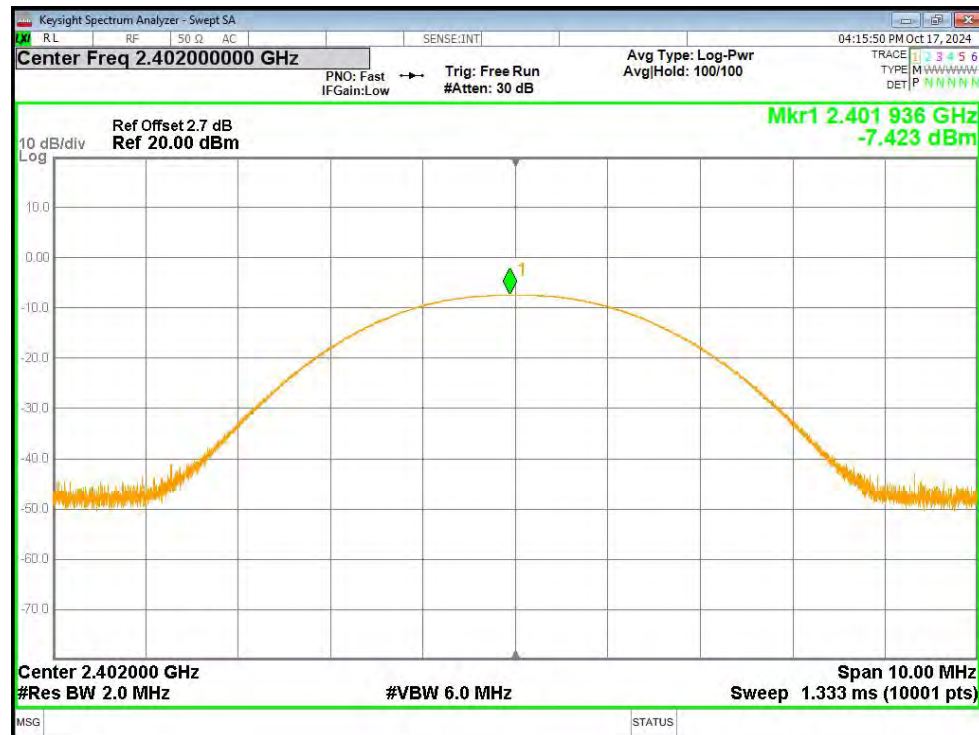
MSG STATUS

2.Maximum Peak Conducted Output Power

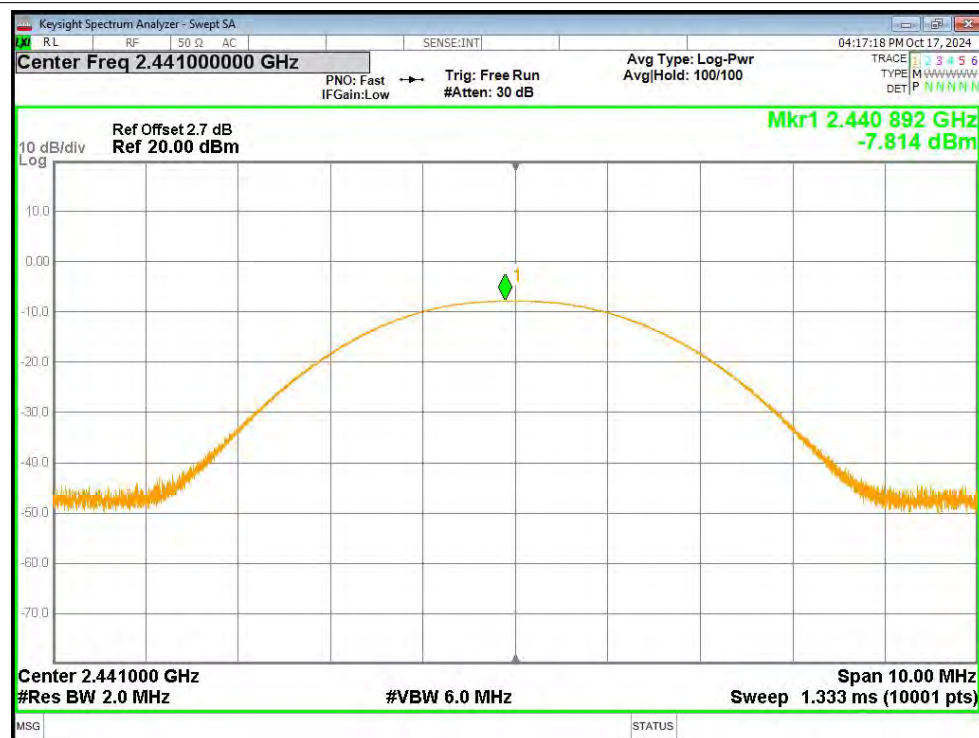
Mode	Frequency (MHz)	Total Power (dBm)	Limit (dBm)	Verdict
1-DH5	2402	-7.42	21	Pass
1-DH5	2441	-7.81	21	Pass
1-DH5	2480	-10.95	21	Pass
2-DH5	2402	-8.65	21	Pass
2-DH5	2441	-8.72	21	Pass
2-DH5	2480	-11.84	21	Pass
3-DH5	2402	-8.52	21	Pass
3-DH5	2441	-8.59	21	Pass
3-DH5	2480	-11.7	21	Pass

Test Graphs

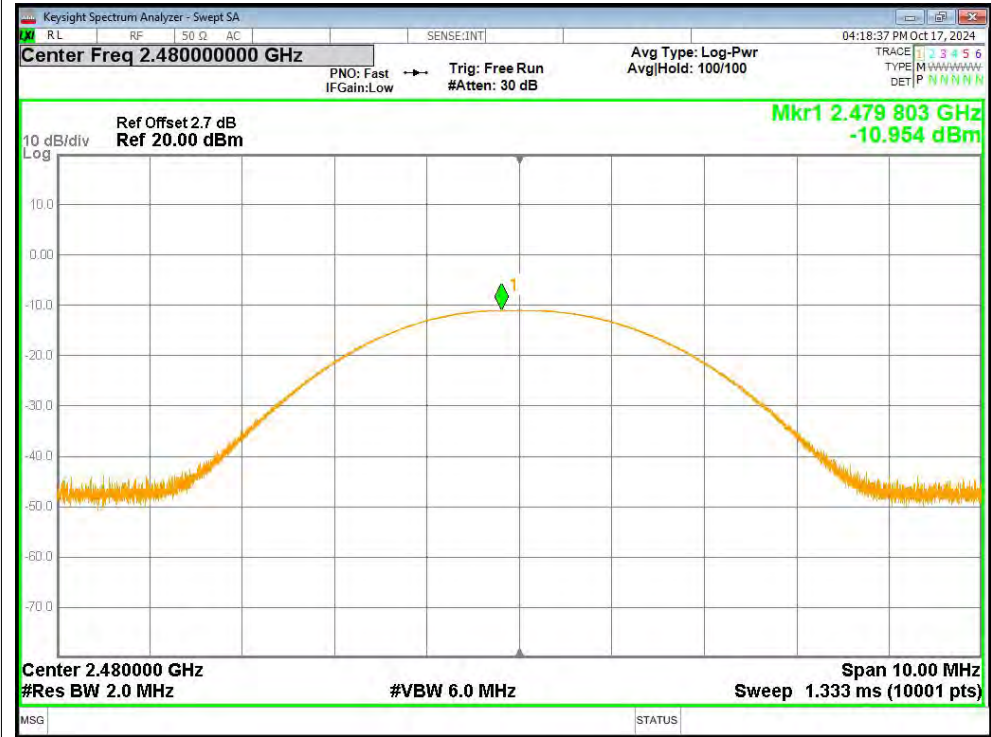
Peak Power NVNT 1-DH5 2402MHz Ant1



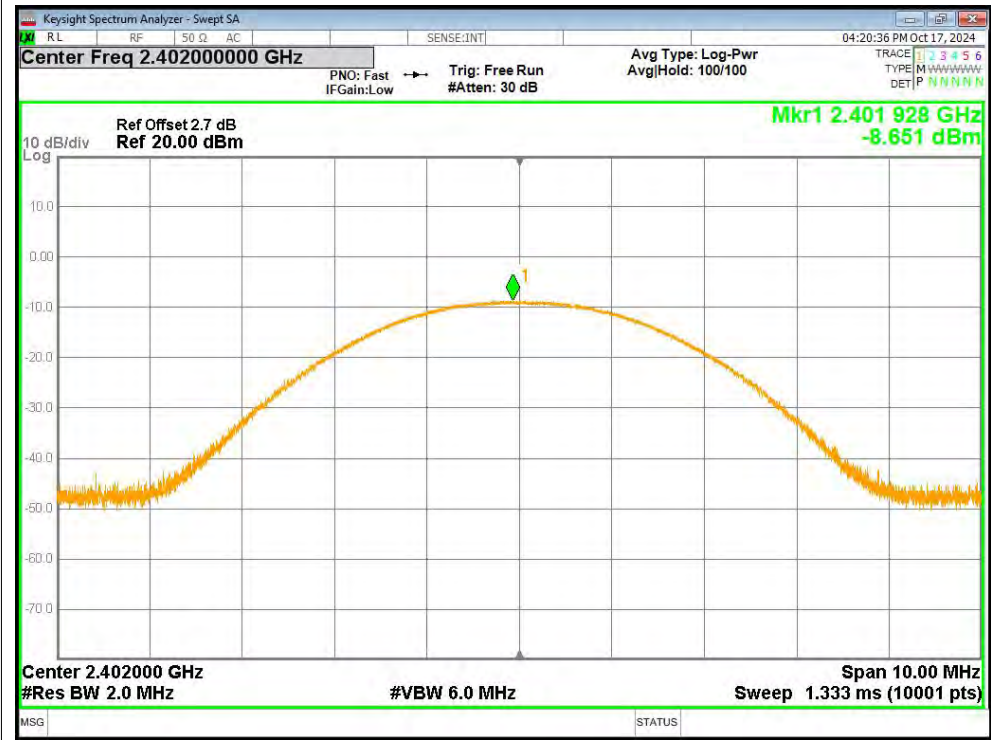
Peak Power NVNT 1-DH5 2441MHz Ant1



Peak Power NVNT 1-DH5 2480MHz Ant1



Peak Power NVNT 2-DH5 2402MHz Ant1



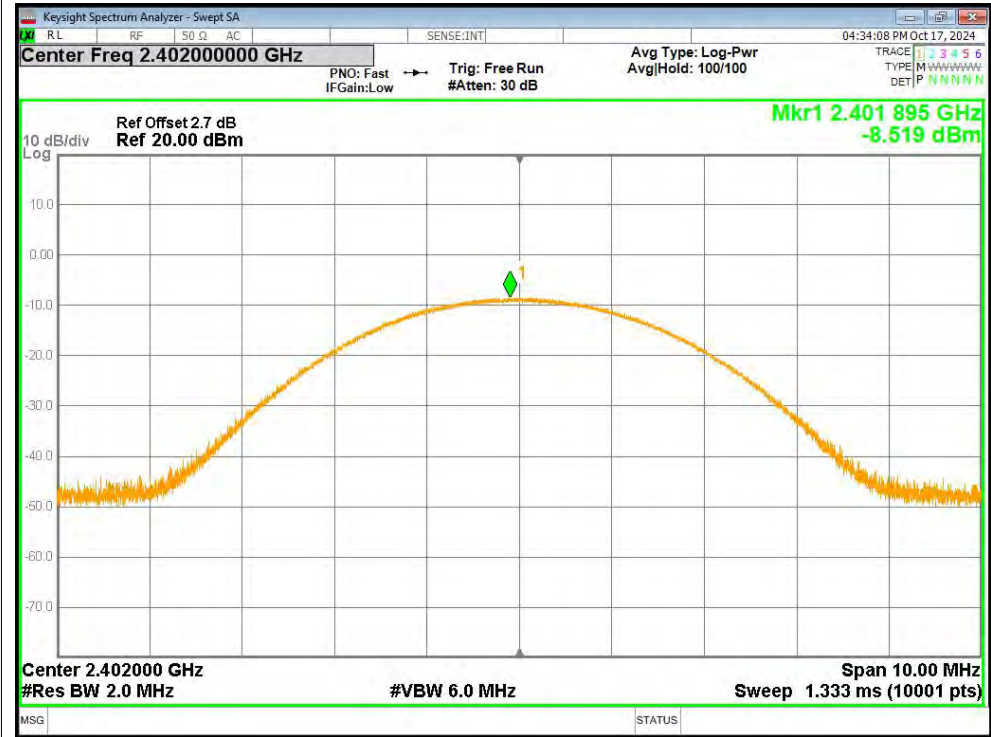
Peak Power NVNT 2-DH5 2441MHz Ant1



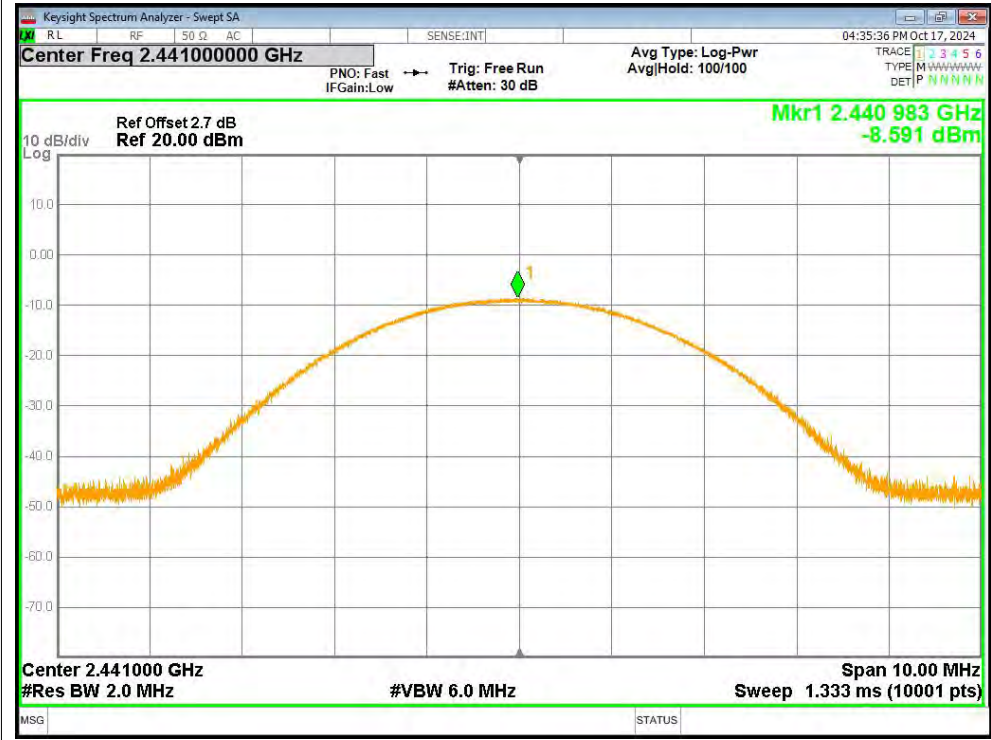
Peak Power NVNT 2-DH5 2480MHz Ant1



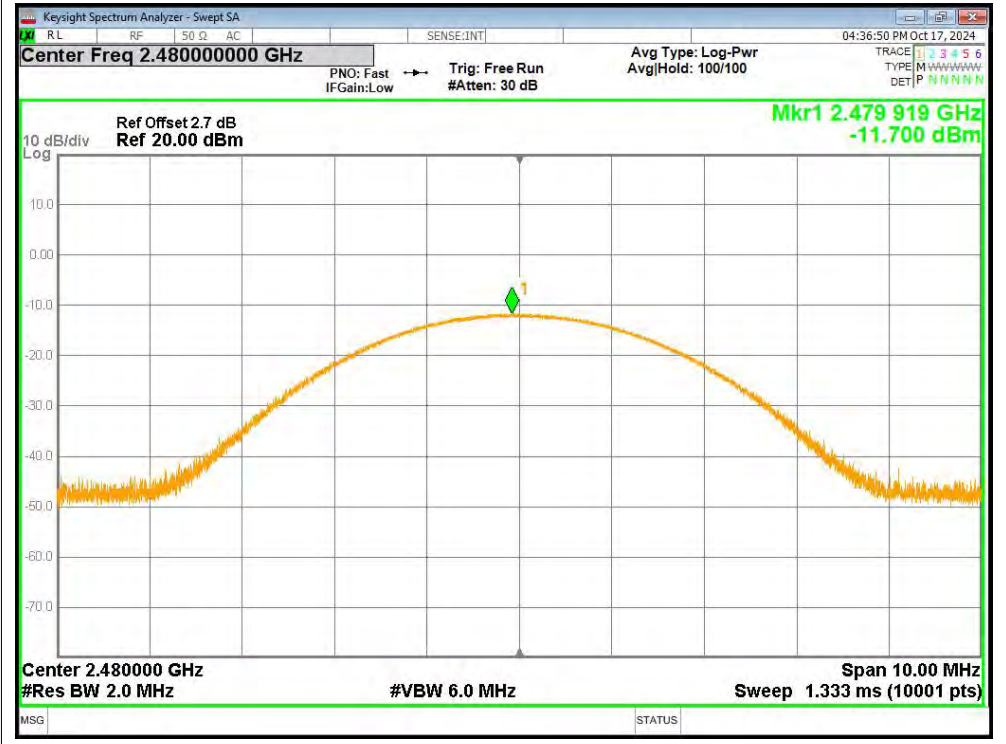
Peak Power NVNT 3-DH5 2402MHz Ant1



Peak Power NVNT 3-DH5 2441MHz Ant1



Peak Power NVNT 3-DH5 2480MHz Ant1

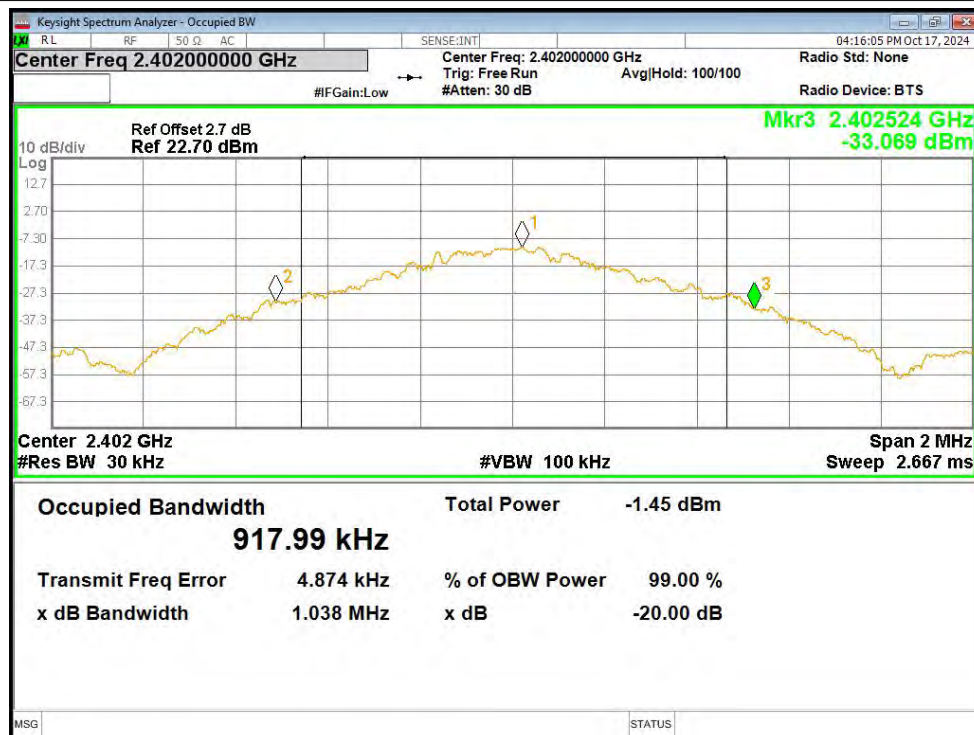


3.-20dB Bandwidth

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

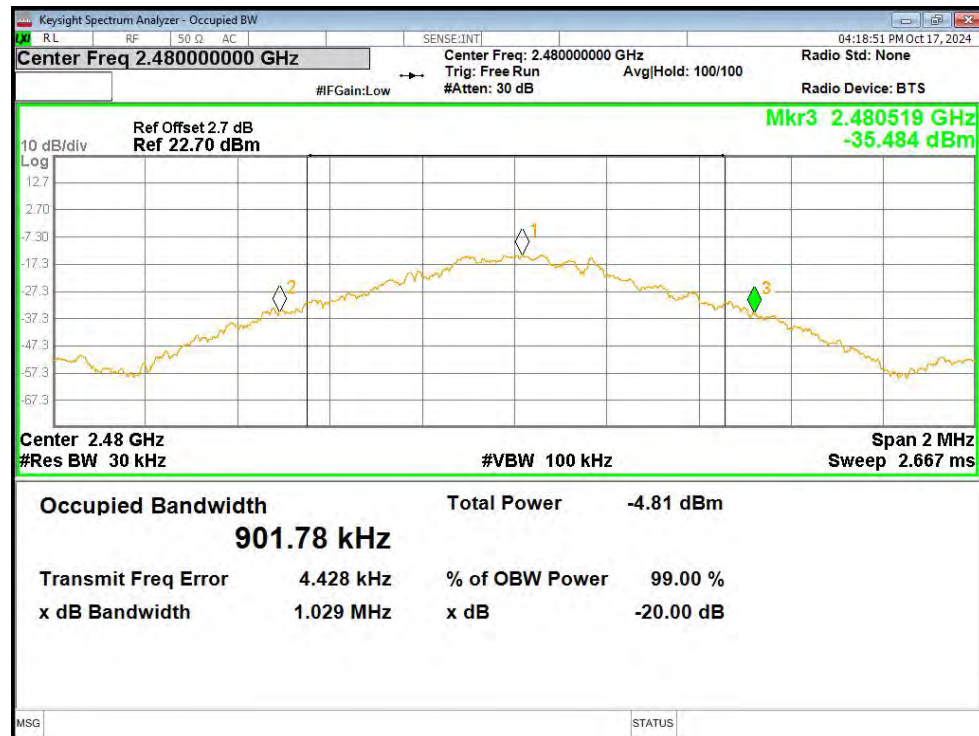
-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



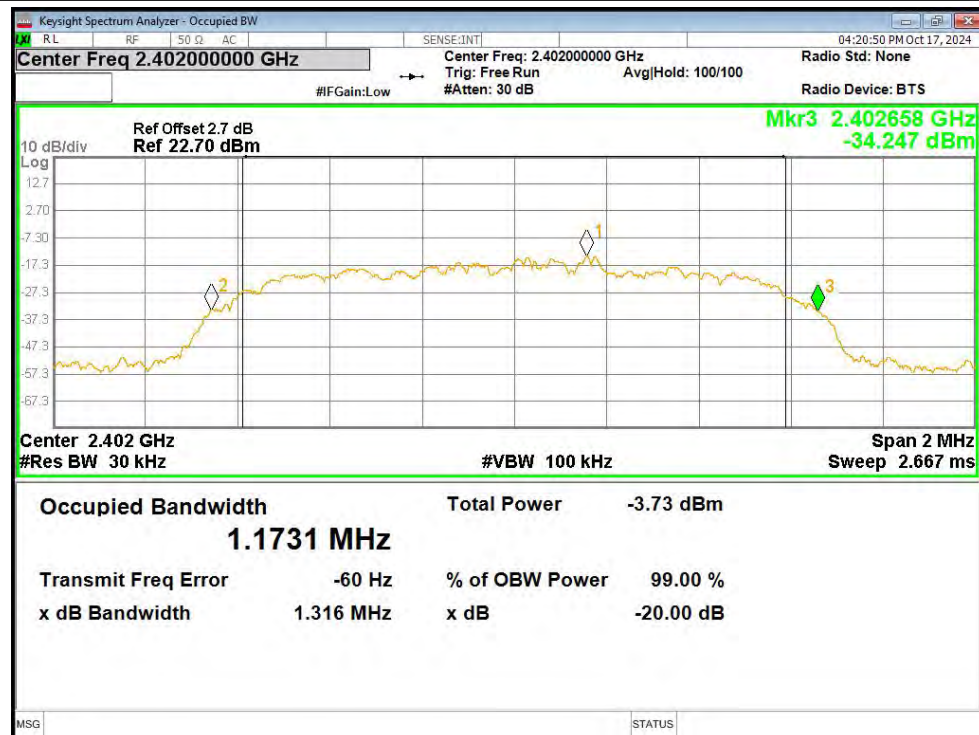
-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



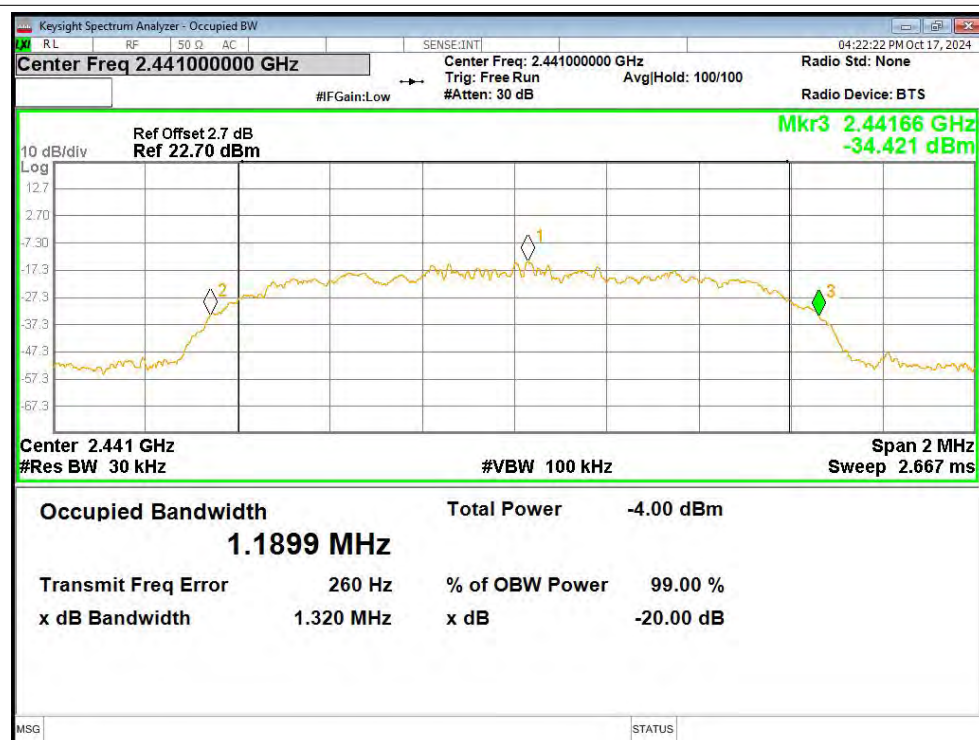
-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



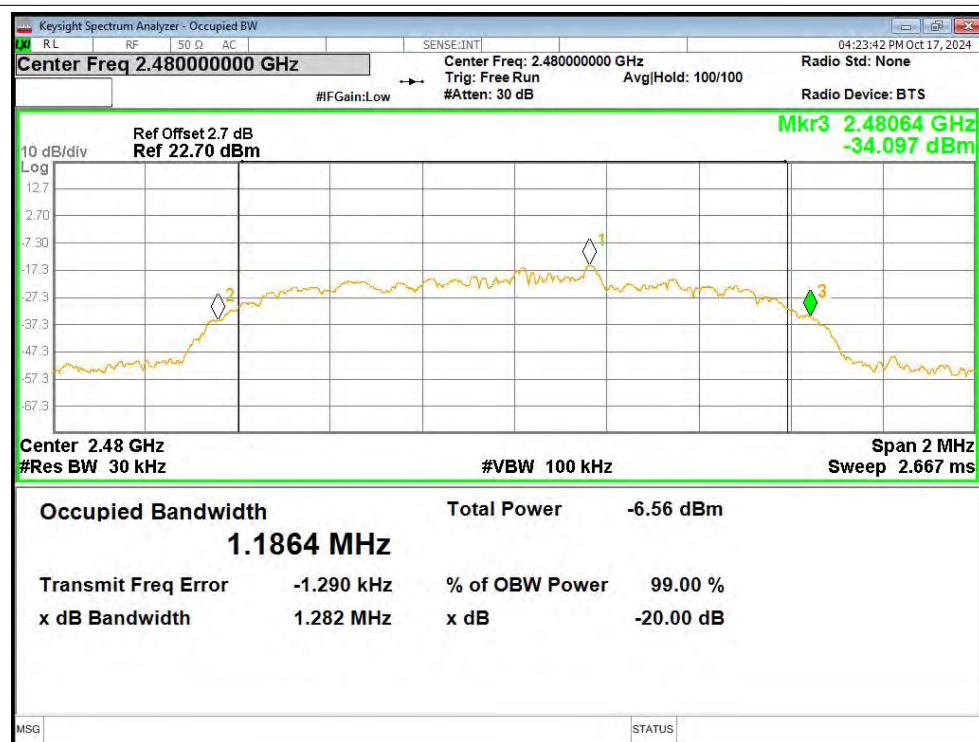
-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



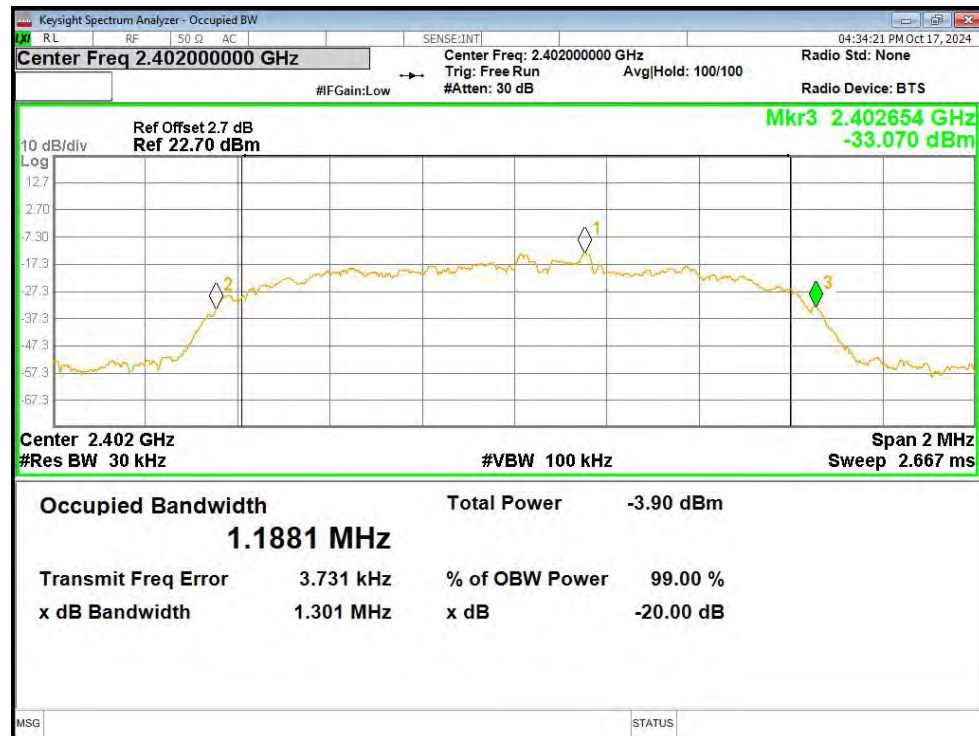
-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



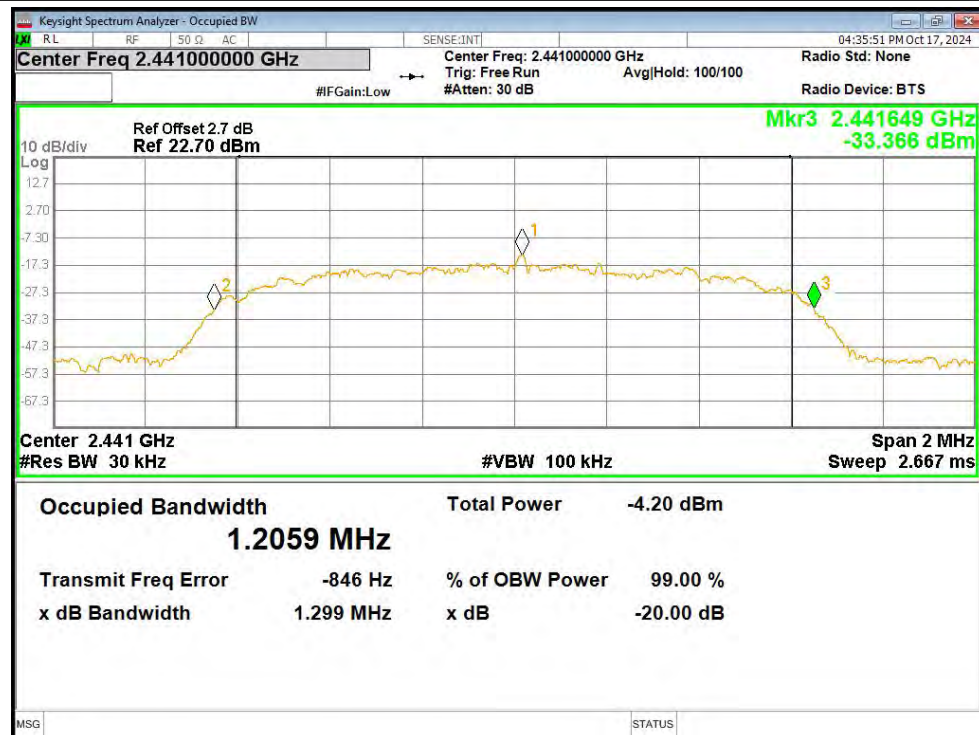
-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



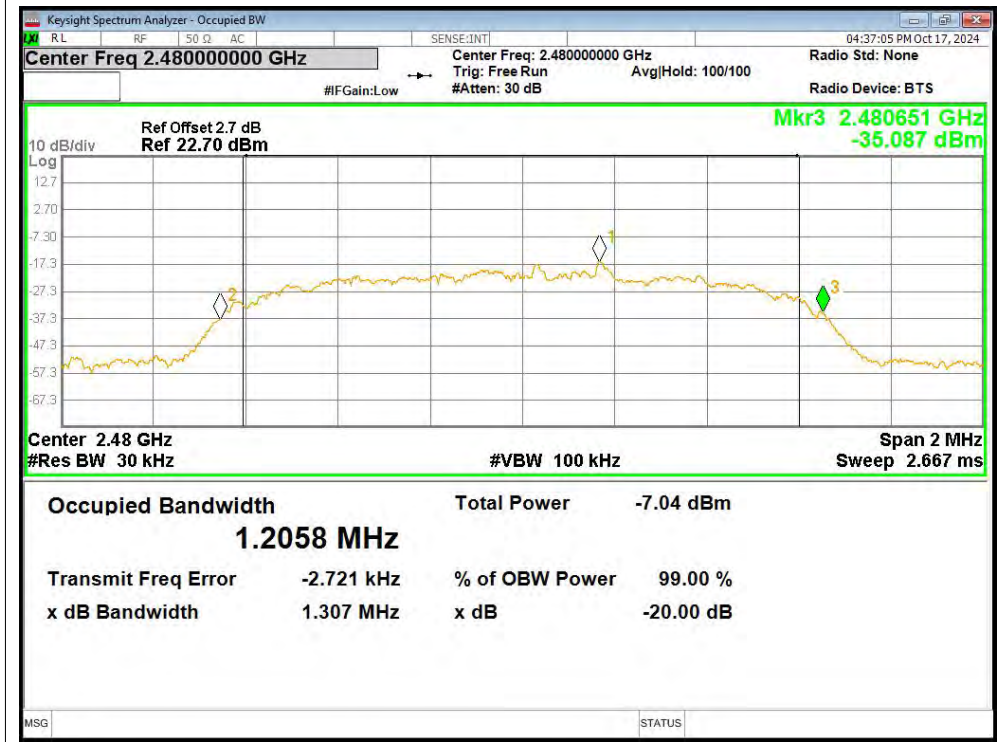
-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1



4.Occupied Channel Bandwidth

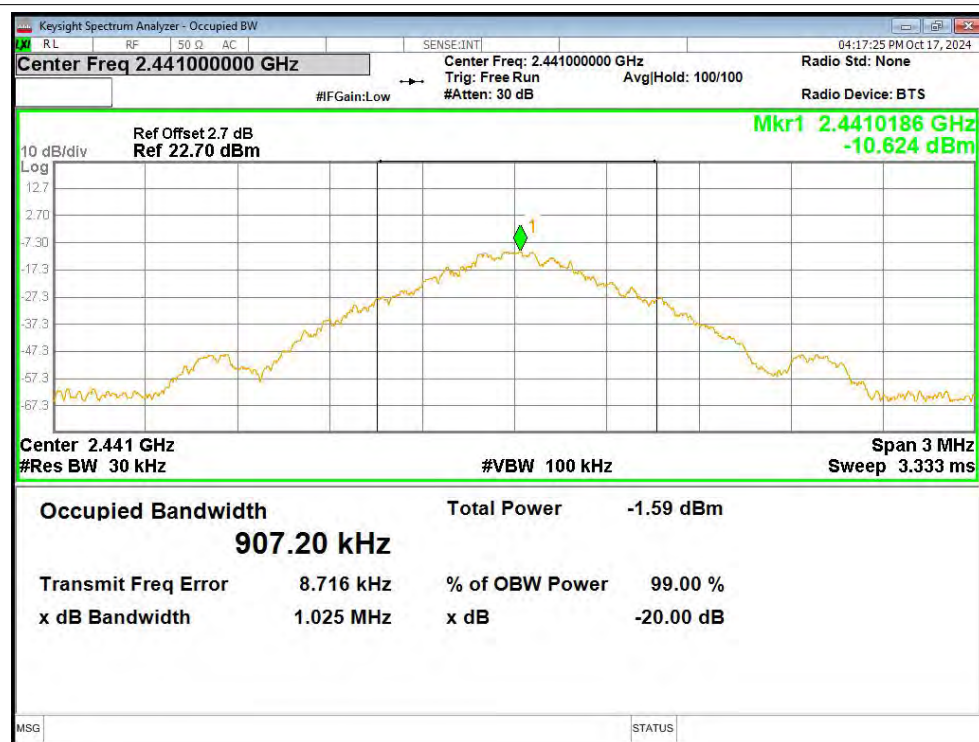
Mode	Frequency (MHz)	99% OBW (MHz)
1-DH5	2402	0.911
1-DH5	2441	0.907
1-DH5	2480	0.9
2-DH5	2402	1.185
2-DH5	2441	1.192
2-DH5	2480	1.195
3-DH5	2402	1.189
3-DH5	2441	1.198
3-DH5	2480	1.217

Test Graphs

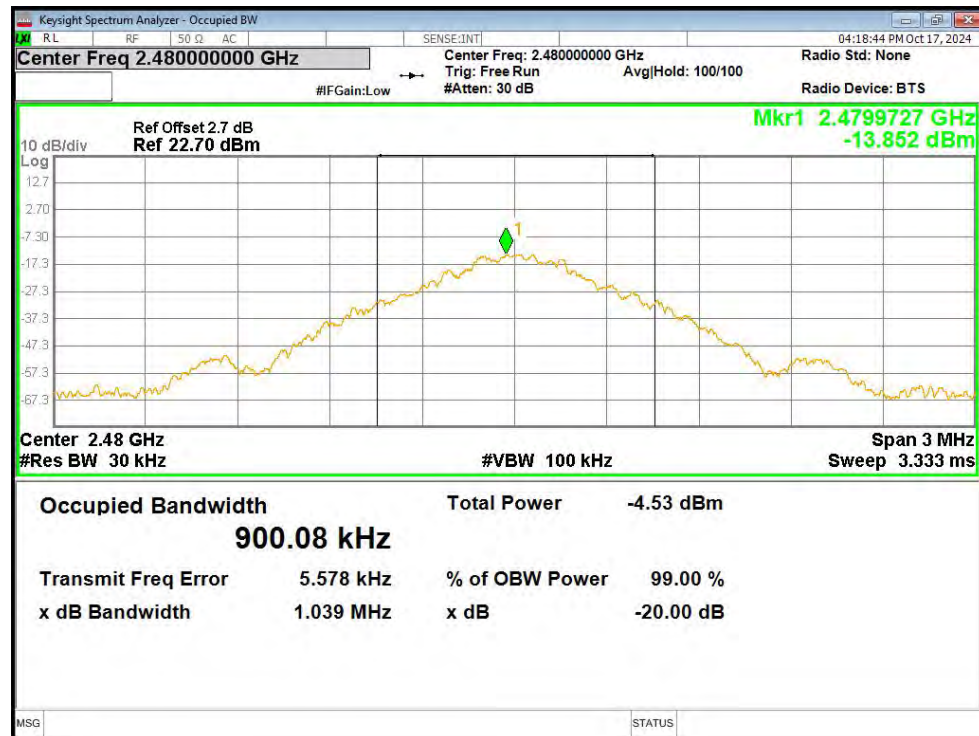
OBW NVNT 1-DH5 2402MHz Ant1



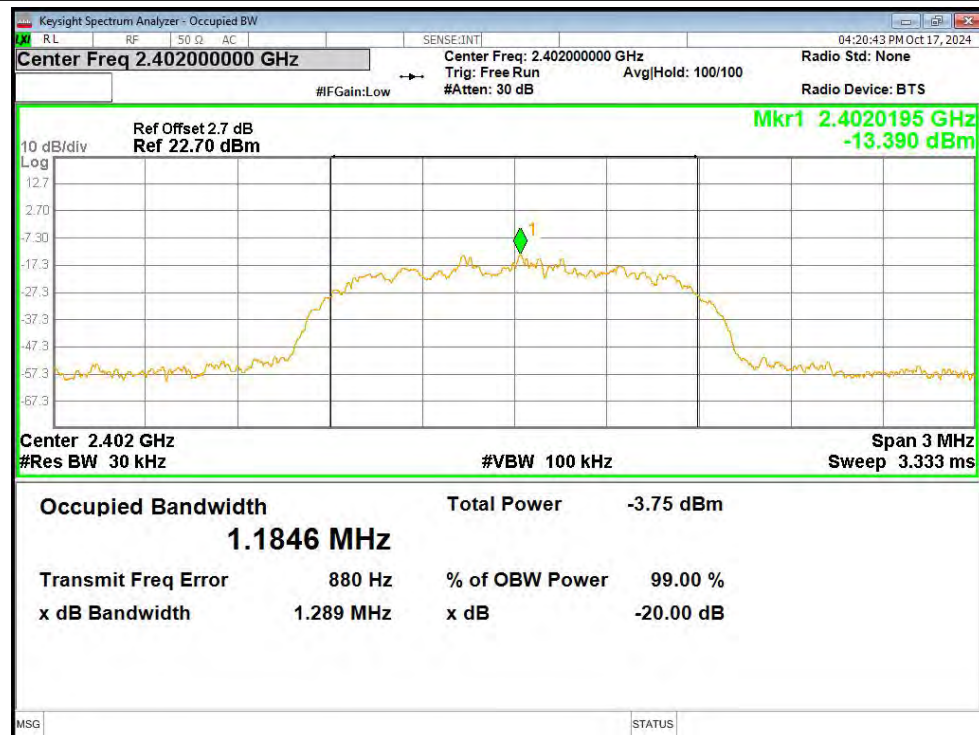
OBW NVNT 1-DH5 2441MHz Ant1



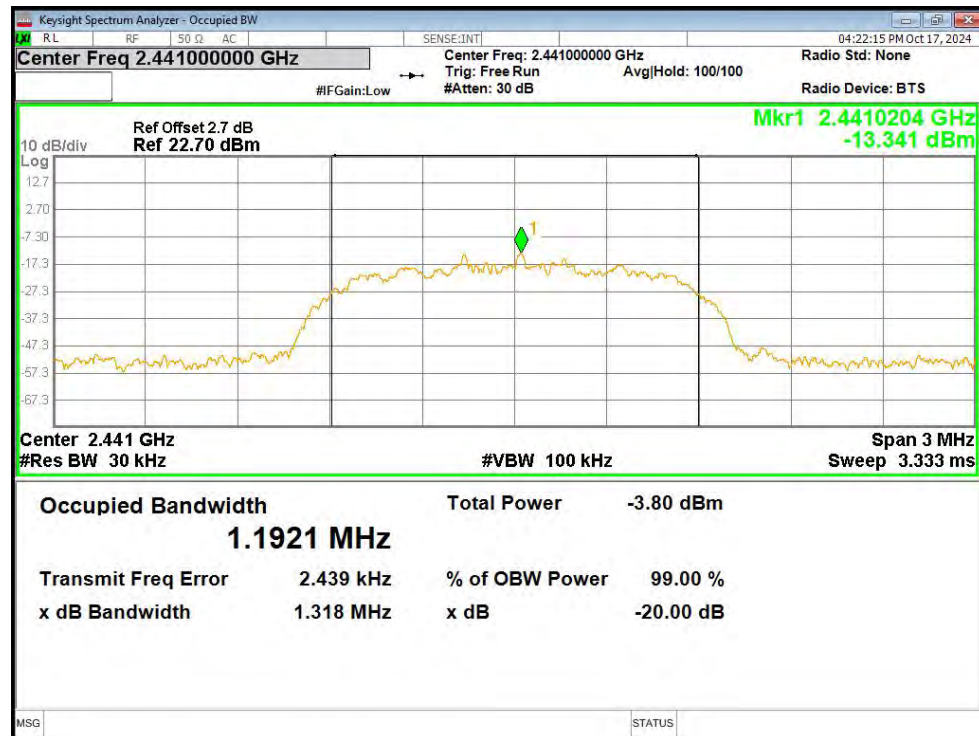
OBW NVNT 1-DH5 2480MHz Ant1



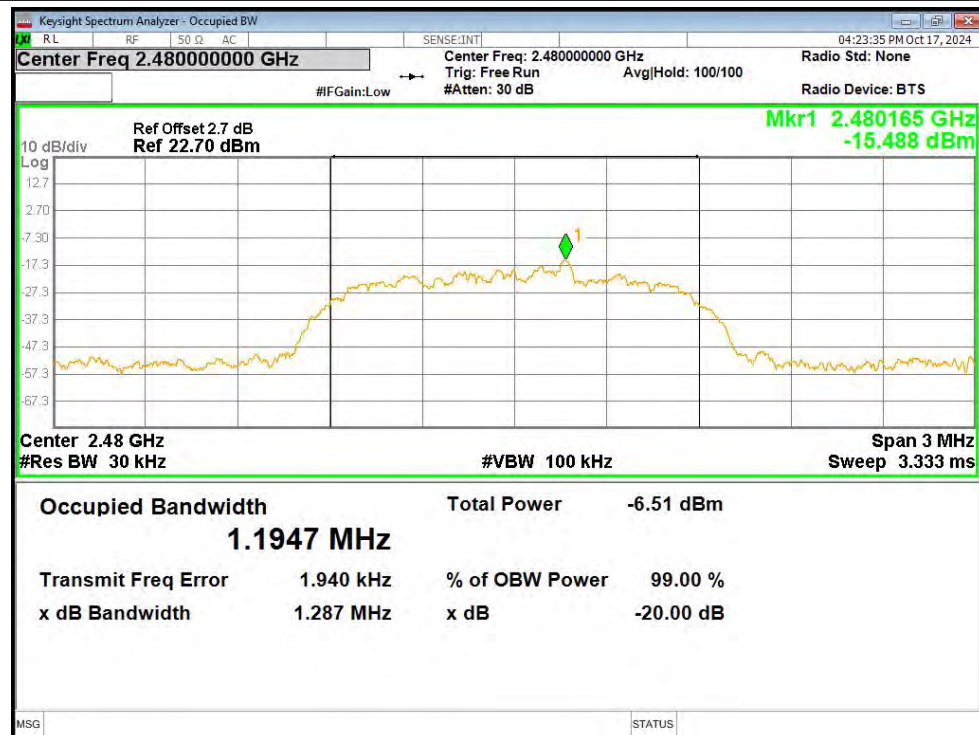
OBW NVNT 2-DH5 2402MHz Ant1



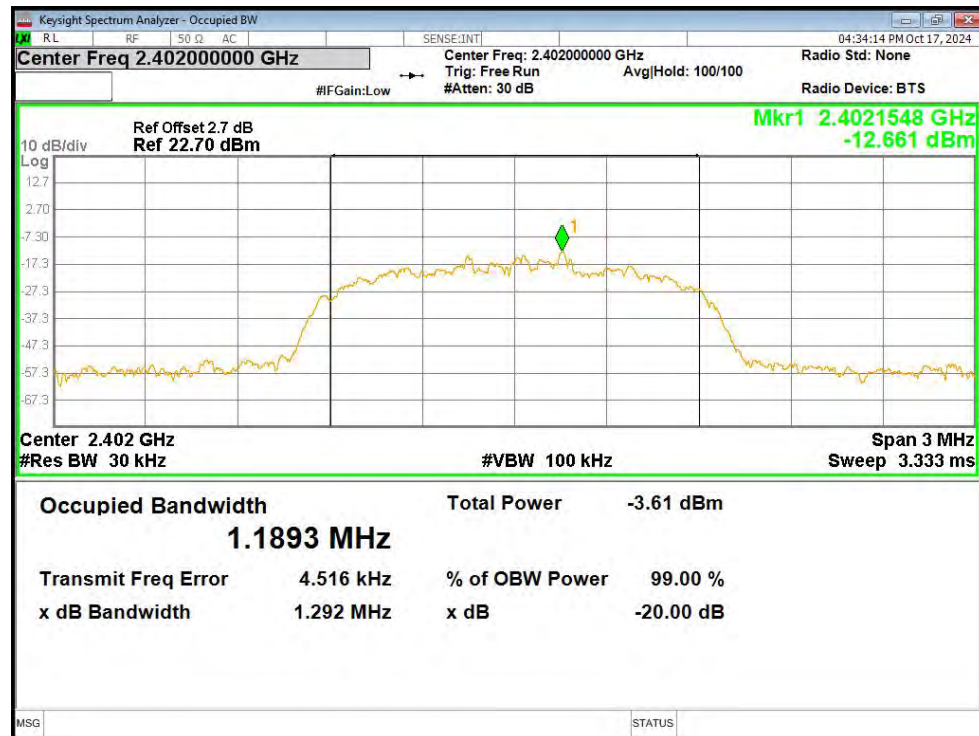
OBW NVNT 2-DH5 2441MHz Ant1



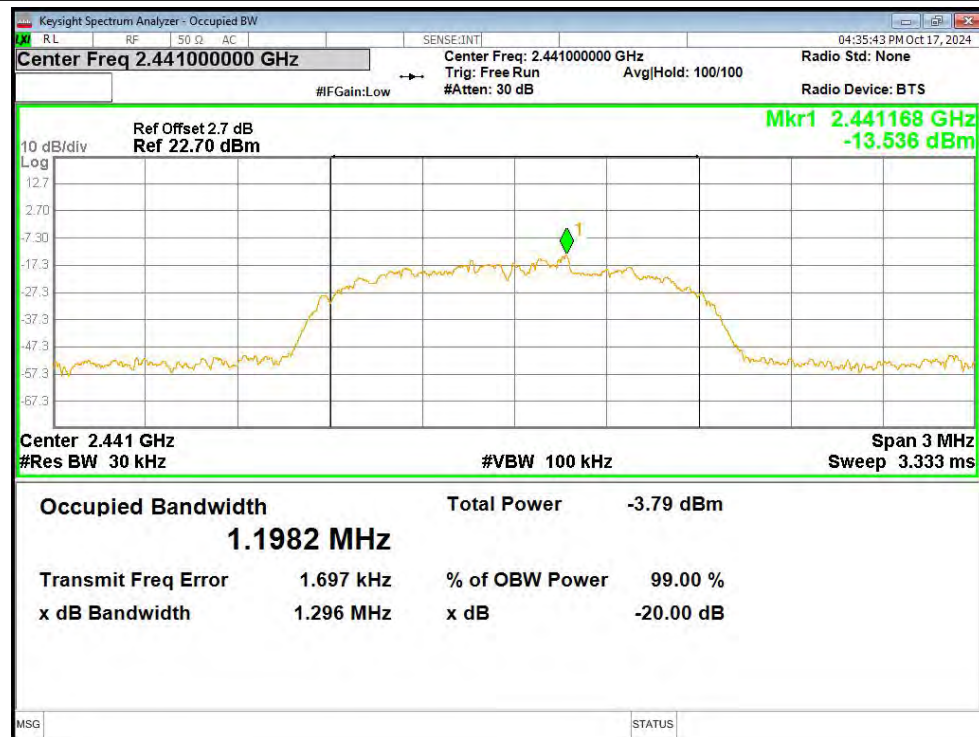
OBW NVNT 2-DH5 2480MHz Ant1



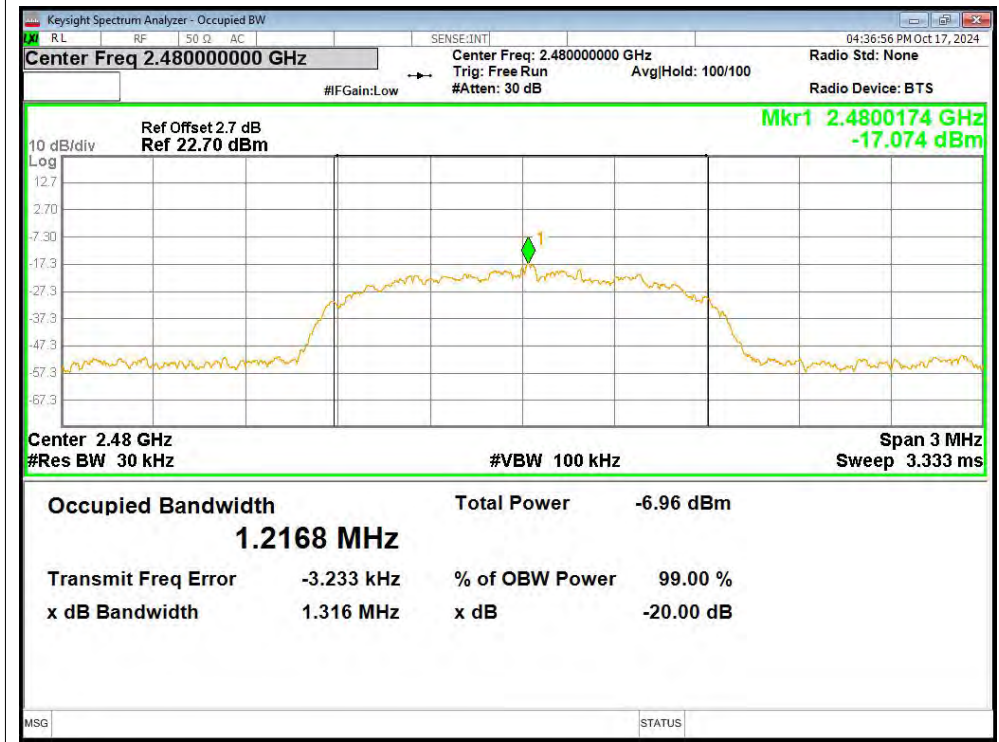
OBW NVNT 3-DH5 2402MHz Ant1



OBW NVNT 3-DH5 2441MHz Ant1



OBW NVNT 3-DH5 2480MHz Ant1



5.Carrier Frequencies Separation

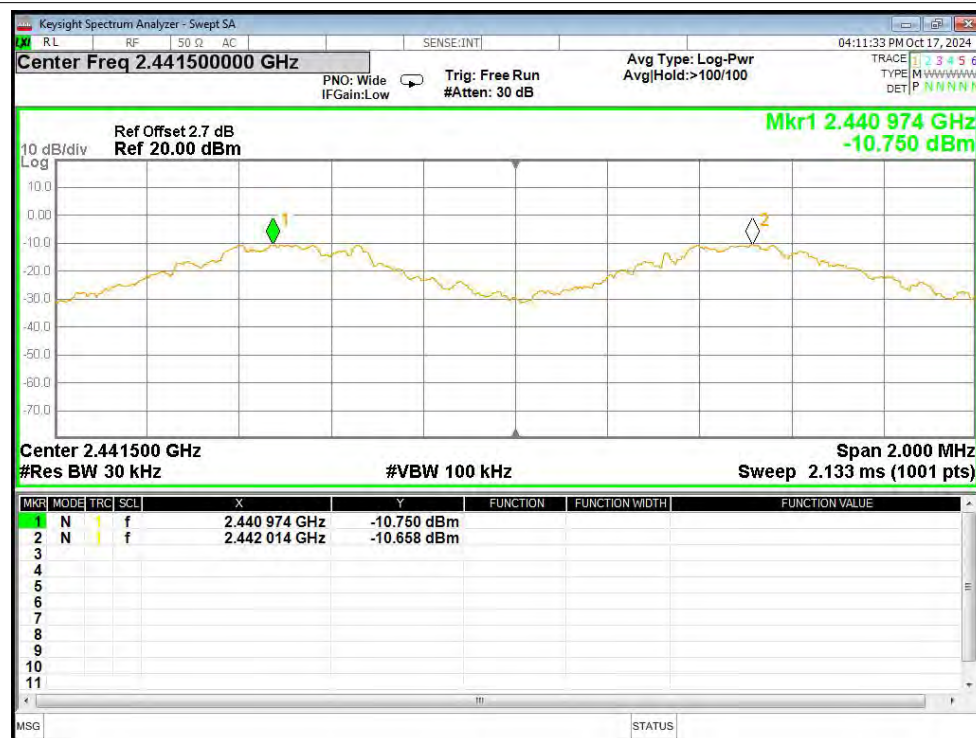
Mode	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
1-DH5	2402.012	2402.994	0.982	0.663	Pass
1-DH5	2440.974	2442.014	1.04	0.591	Pass
1-DH5	2478.972	2479.968	0.996	0.596	Pass
2-DH5	2402.024	2403.022	0.998	0.877	Pass
2-DH5	2441.164	2442.164	1	0.88	Pass
2-DH5	2479.016	2480.17	1.154	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

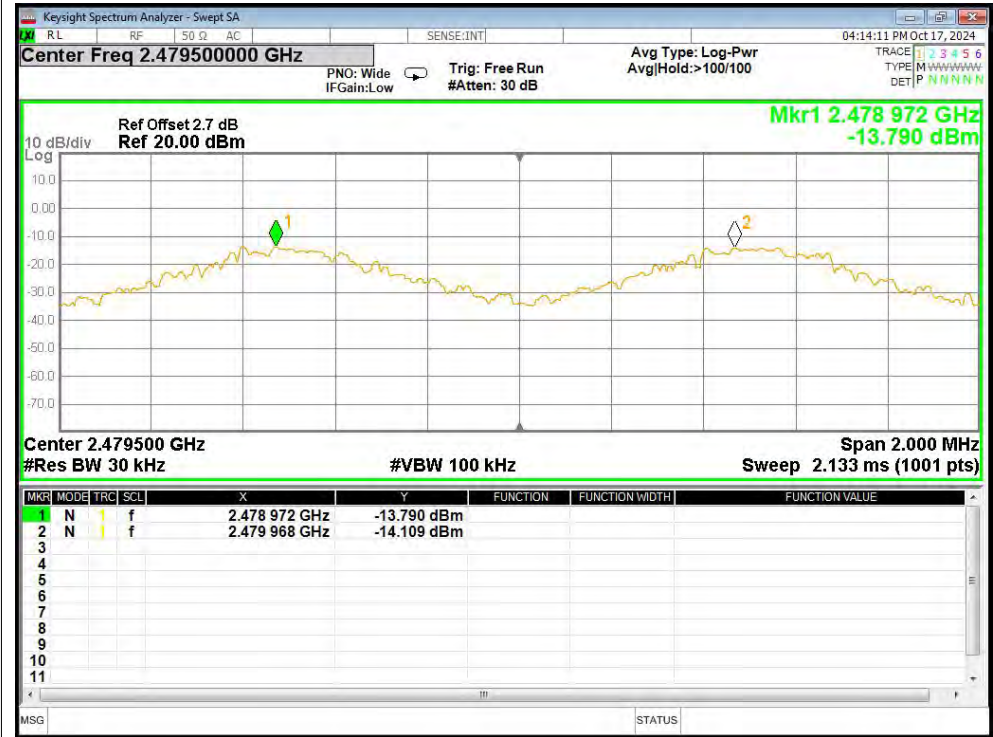
CFS NVNT 1-DH5 2402MHz Ant1



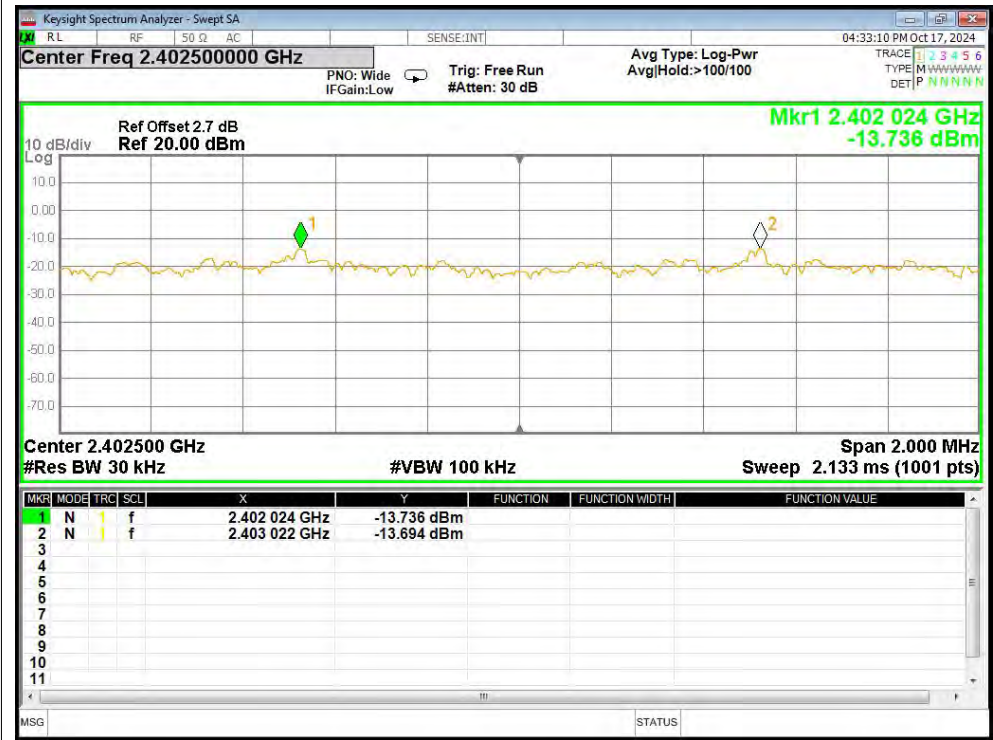
CFS NVNT 1-DH5 2441MHz Ant1



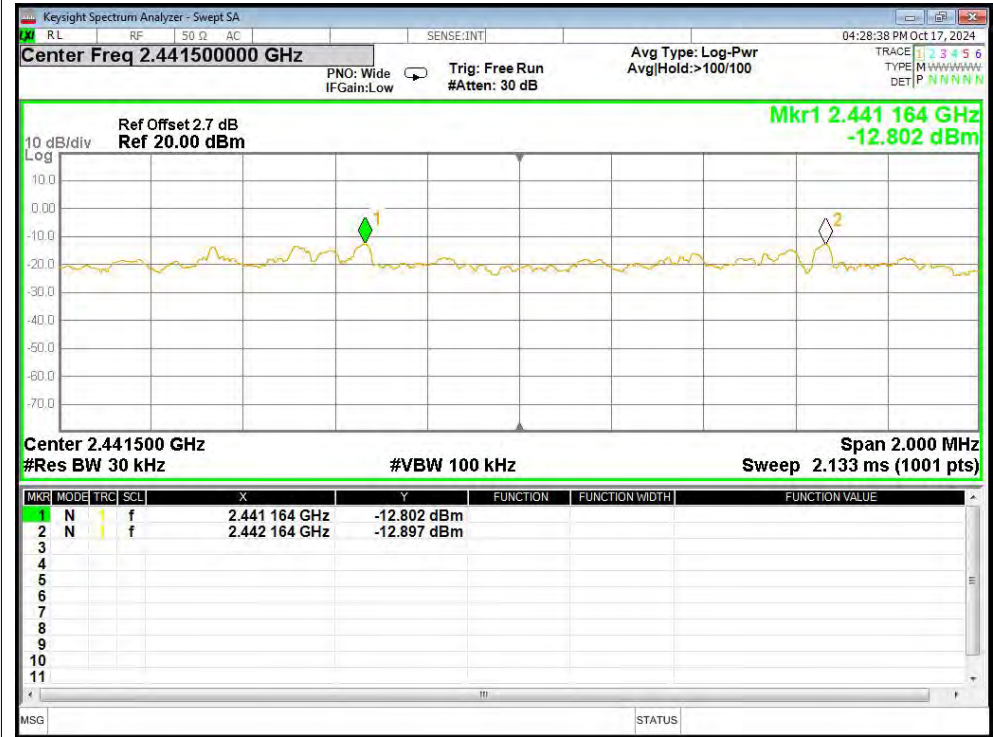
CFS NVNT 1-DH5 2480MHz Ant1



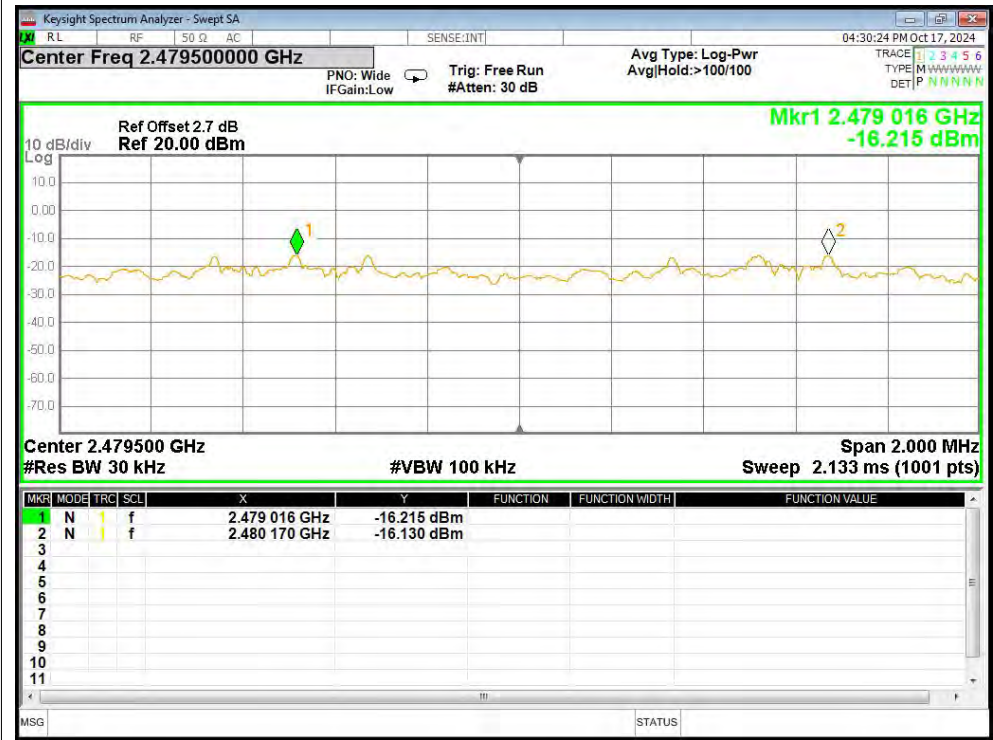
CFS NVNT 2-DH5 2402MHz Ant1



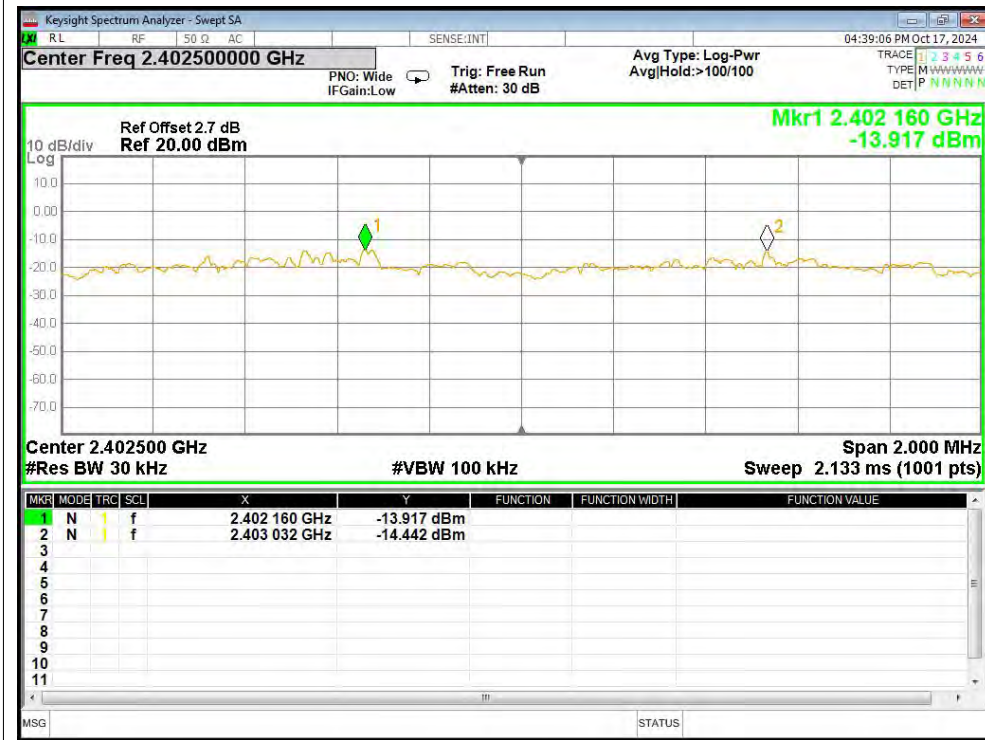
CFS NVNT 2-DH5 2441MHz Ant1



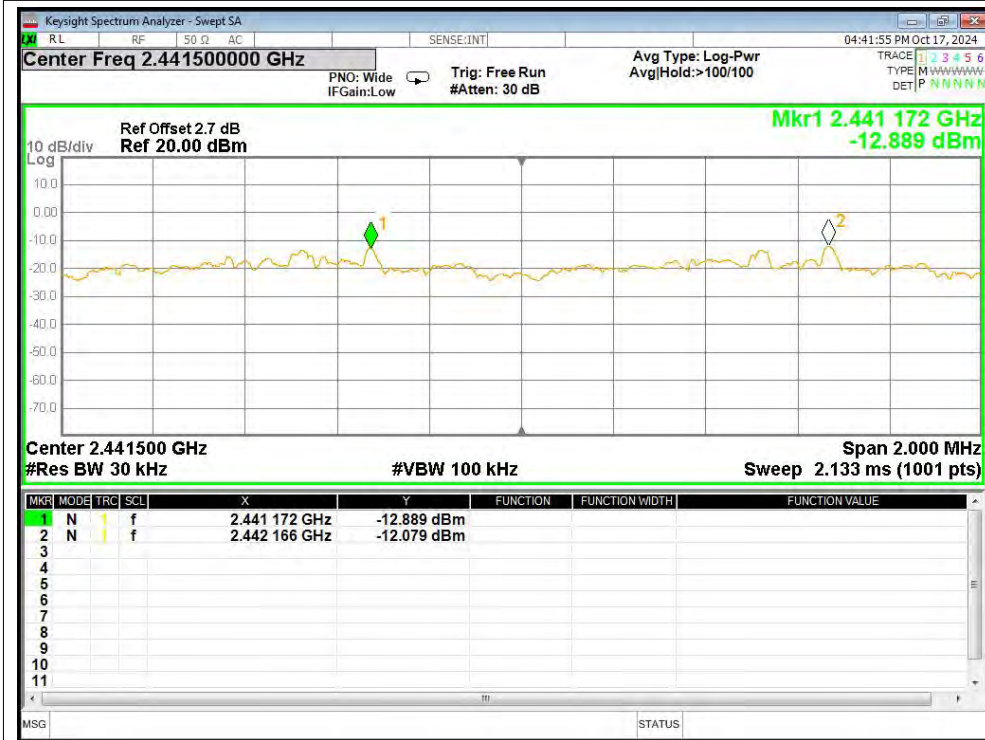
CFS NVNT 2-DH5 2480MHz Ant1



CFS NVNT 3-DH5 2402MHz Ant1



CFS NVNT 3-DH5 2441MHz Ant1



CFS NVNT 3-DH5 2480MHz Ant1

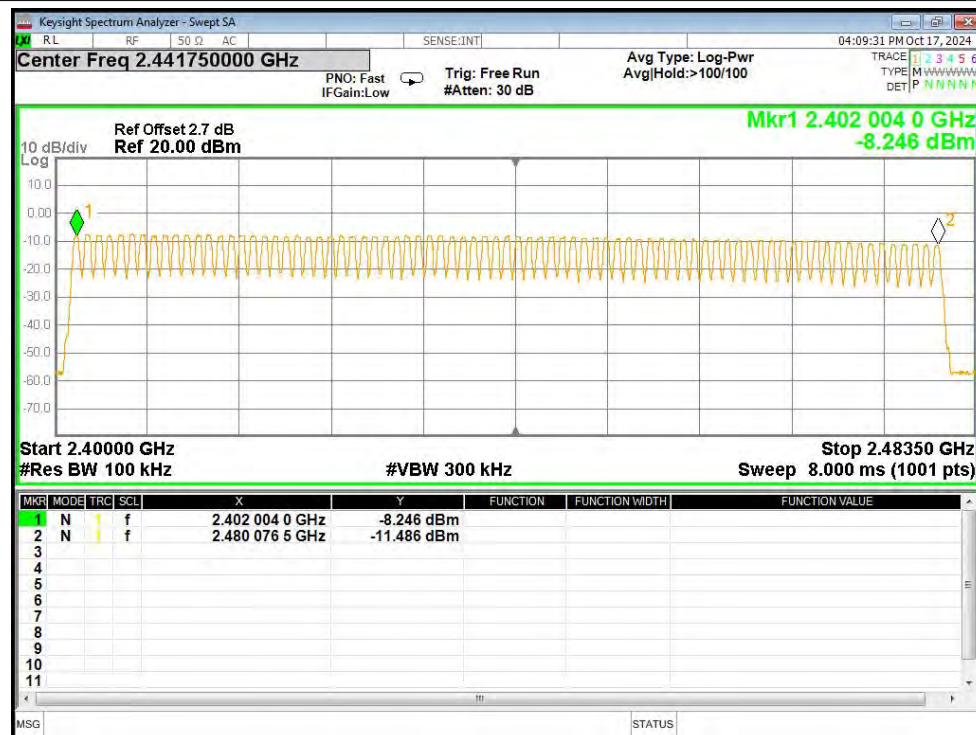


6.Number of Hopping Channel

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

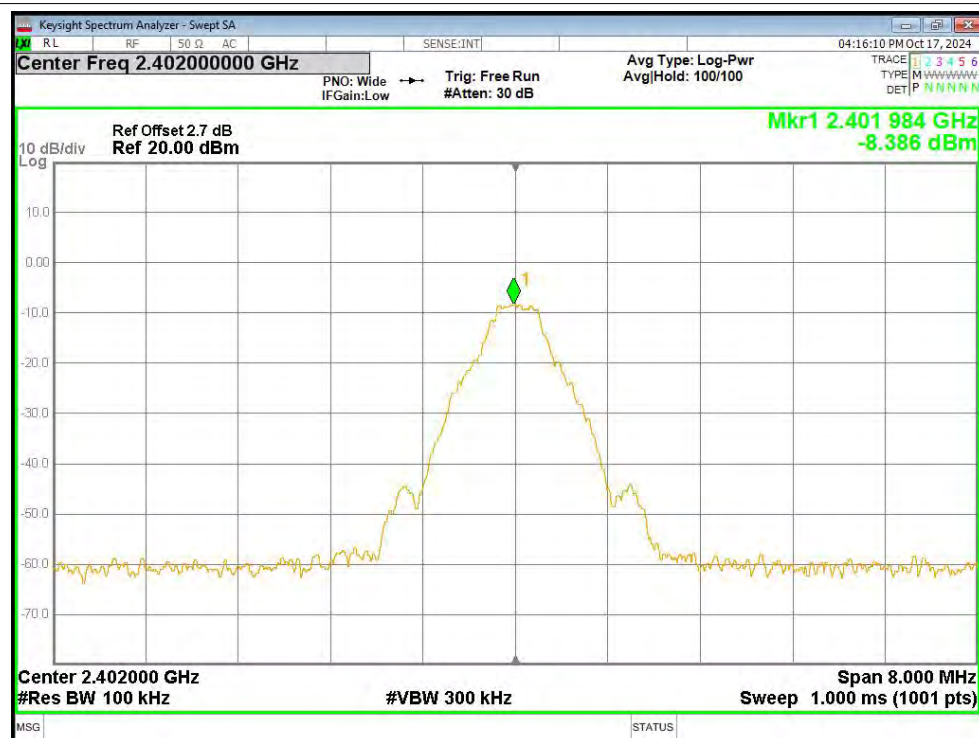


7.Band Edge

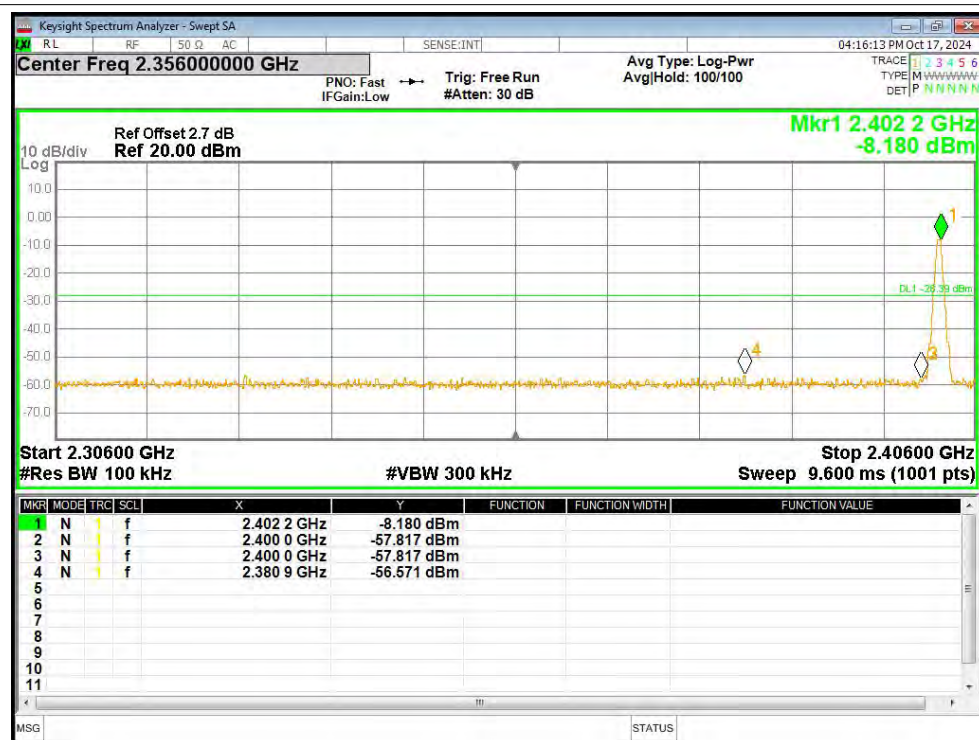
Mode	Frequency (MHz)	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
1-DH5	2402	No-Hopping	-48.18	-20	Pass
1-DH5	2480	No-Hopping	-45.56	-20	Pass
2-DH5	2402	No-Hopping	-44.73	-20	Pass
2-DH5	2480	No-Hopping	-44.27	-20	Pass
3-DH5	2402	No-Hopping	-46.62	-20	Pass
3-DH5	2480	No-Hopping	-41.43	-20	Pass

Test Graphs

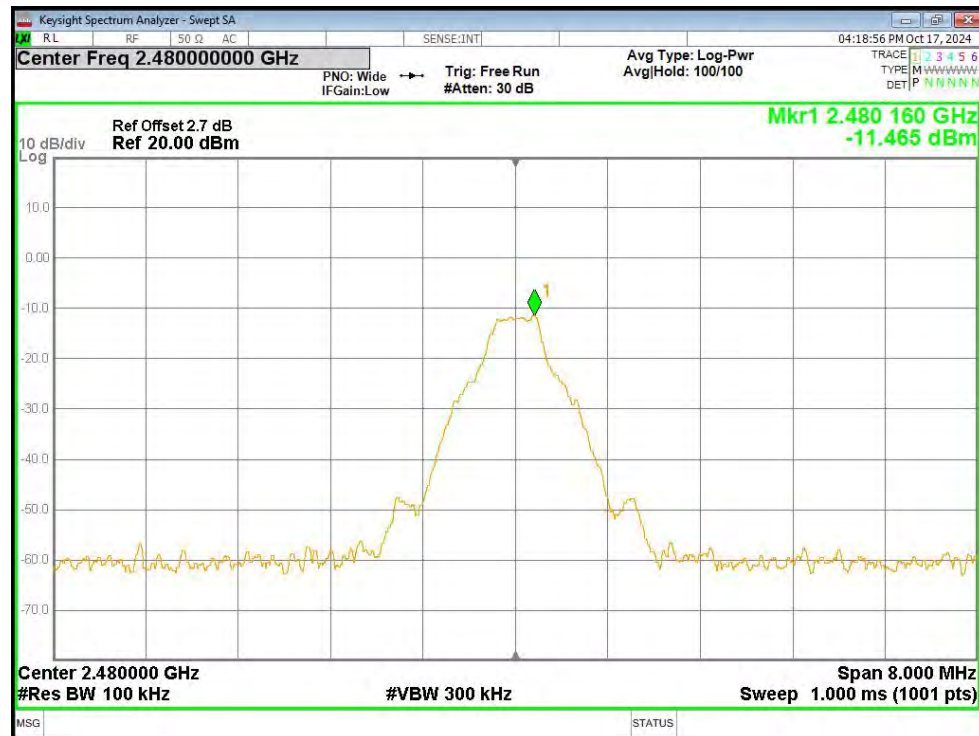
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



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

