

Dwell Time

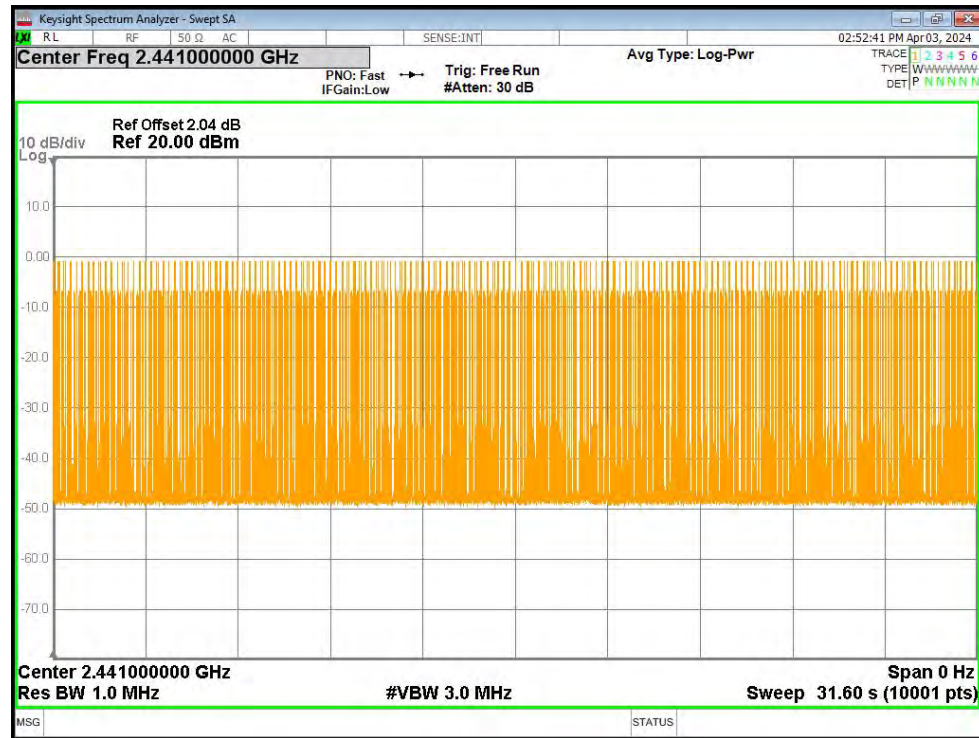
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.381	120.777	317	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.639	257.323	157	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.886	311.688	108	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.392	125.048	319	31600	400	Pass
NVNT	2-DH3	2441	Ant1	1.644	253.176	154	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.892	312.336	108	31600	400	Pass
NVNT	3-DH1	2441	Ant1	0.393	124.974	318	31600	400	Pass
NVNT	3-DH3	2441	Ant1	1.644	261.396	159	31600	400	Pass
NVNT	3-DH5	2441	Ant1	2.892	335.472	116	31600	400	Pass

Test Graphs

Dwell NVNT 1-DH1 2441MHz Ant1 One Burst



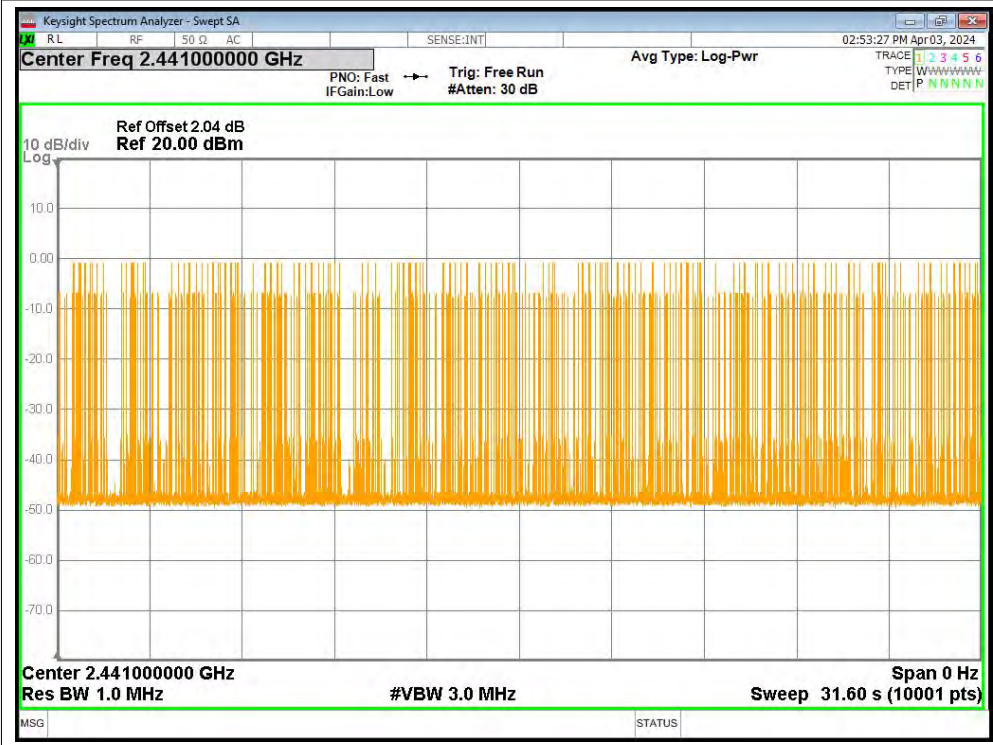
Dwell NVNT 1-DH1 2441MHz Ant1 Accumulated



Dwell NVNT 1-DH3 2441MHz Ant1 One Burst



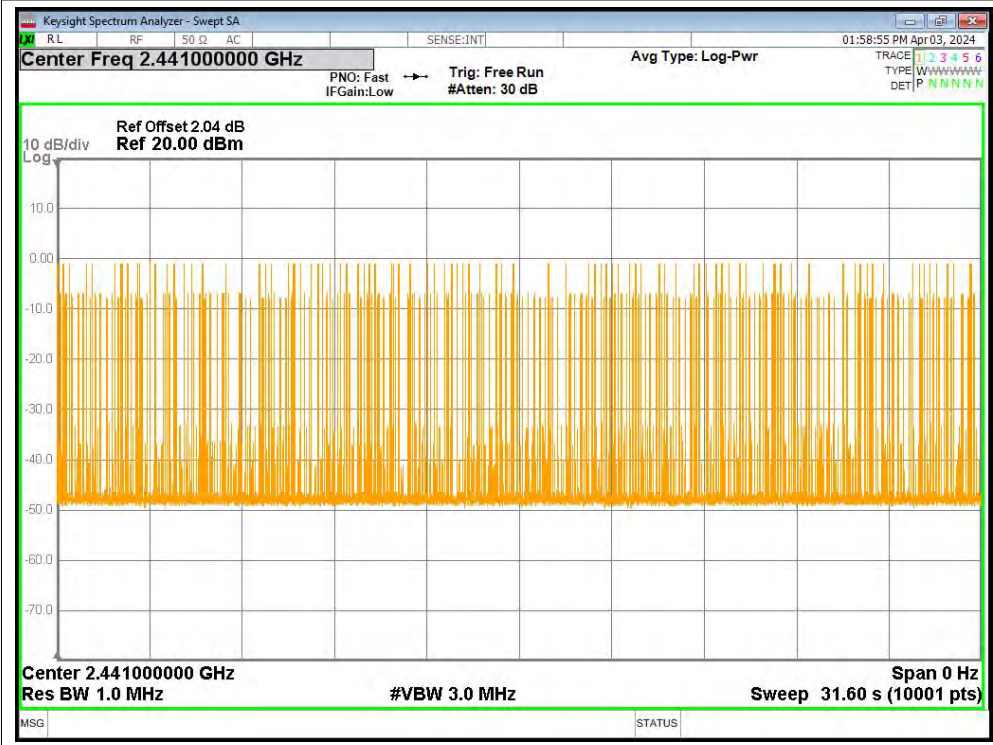
Dwell NVNT 1-DH3 2441MHz Ant1 Accumulated



Dwell NVNT 1-DH5 2441MHz Ant1 One Burst



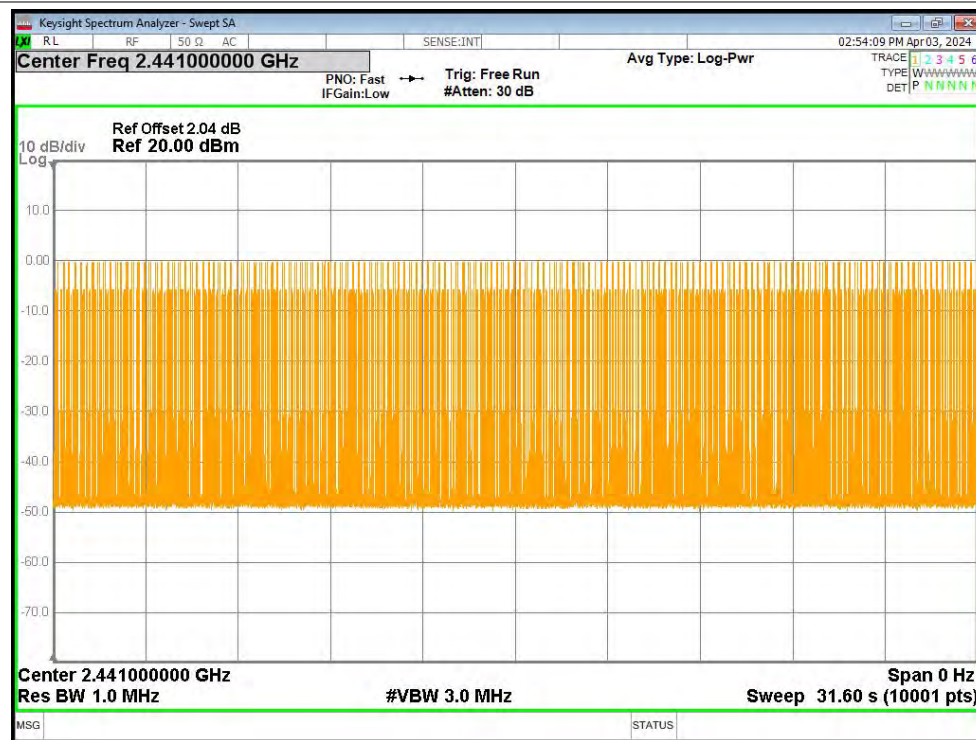
Dwell NVNT 1-DH5 2441MHz Ant1 Accumulated



Dwell NVNT 2-DH1 2441MHz Ant1 One Burst



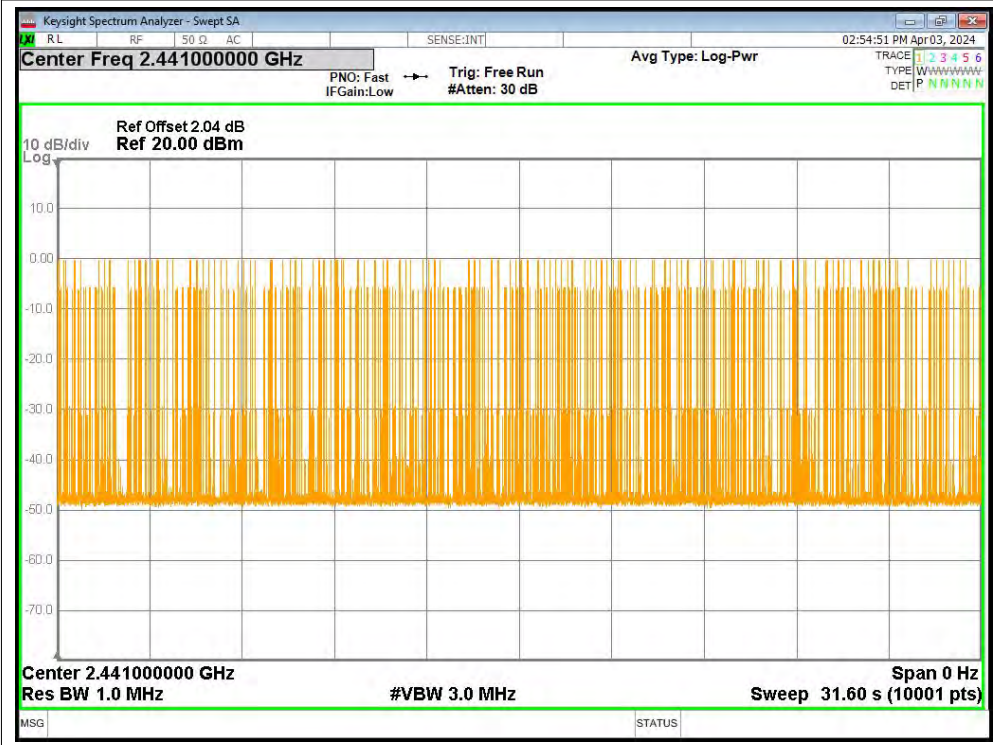
Dwell NVNT 2-DH1 2441MHz Ant1 Accumulated



Dwell NVNT 2-DH3 2441MHz Ant1 One Burst



Dwell NVNT 2-DH3 2441MHz Ant1 Accumulated



[illegible]

Keysight Spectrum Analyzer - Swept SA

02:22:07 PM Apr 03, 2024

Center Freq 2.441000000 GHz

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

PN0: Fast

Trig: Free Run

IF Gain: Low

#Atten: 30 dB

Ref Offset 2.04 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)

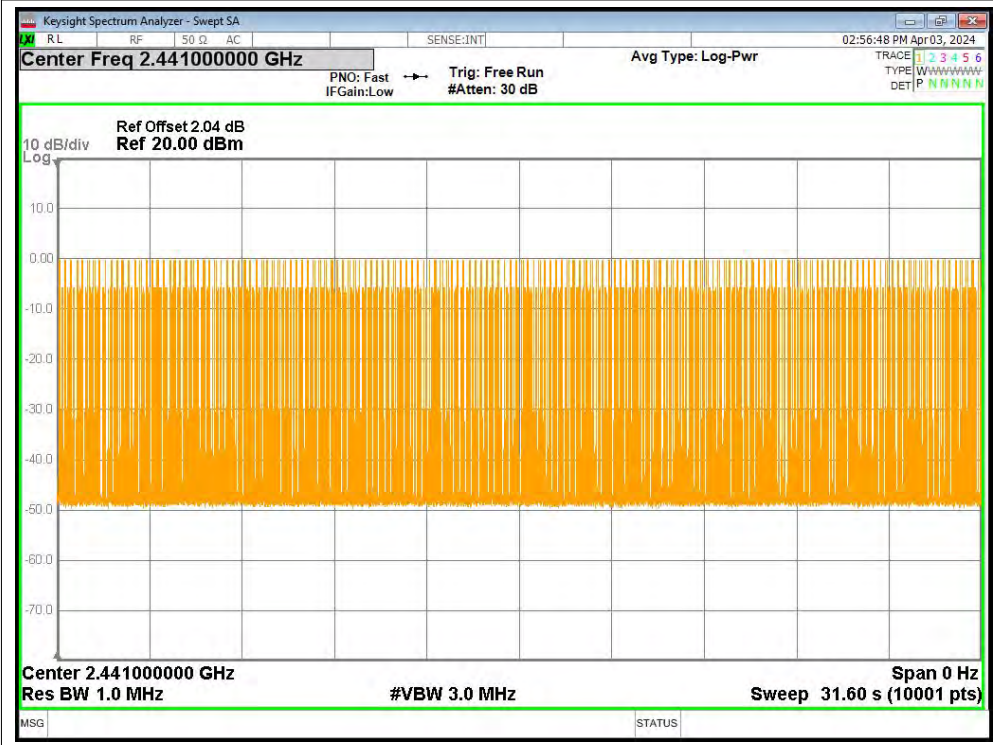
MSG

STATUS

Dwell NVNT 3-DH1 2441MHz Ant1 One Burst



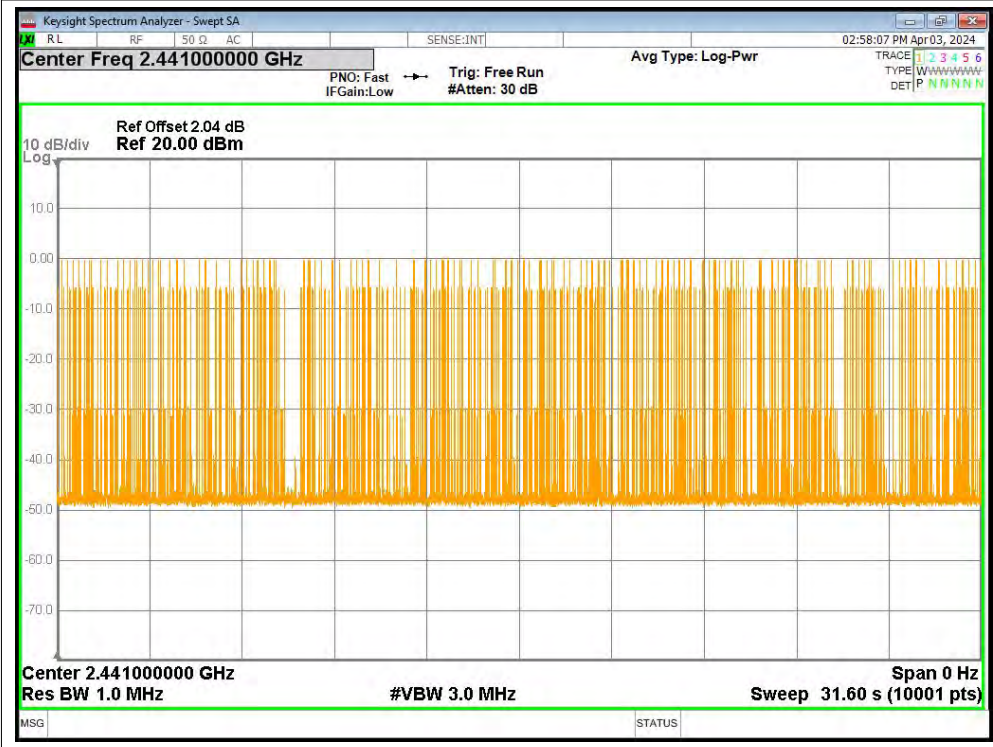
Dwell NVNT 3-DH1 2441MHz Ant1 Accumulated



Dwell NVNT 3-DH3 2441MHz Ant1 One Burst



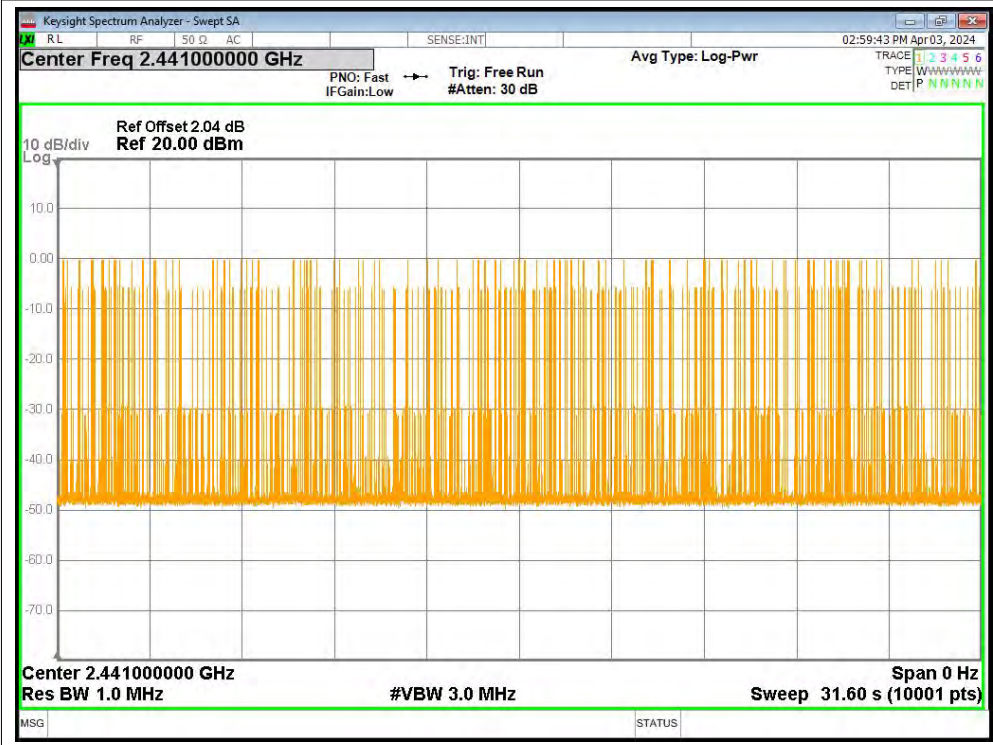
Dwell NVNT 3-DH3 2441MHz Ant1 Accumulated



Dwell NVNT 3-DH5 2441MHz Ant1 One Burst



Dwell NVNT 3-DH5 2441MHz Ant1 Accumulated

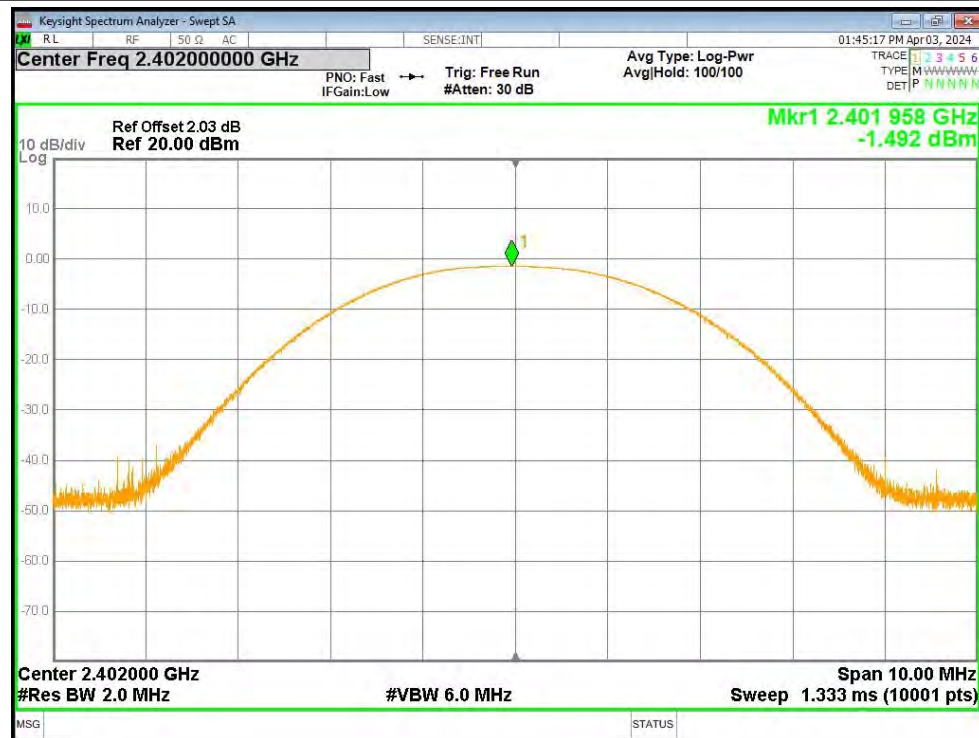


Maximum Peak Conducted Output Power

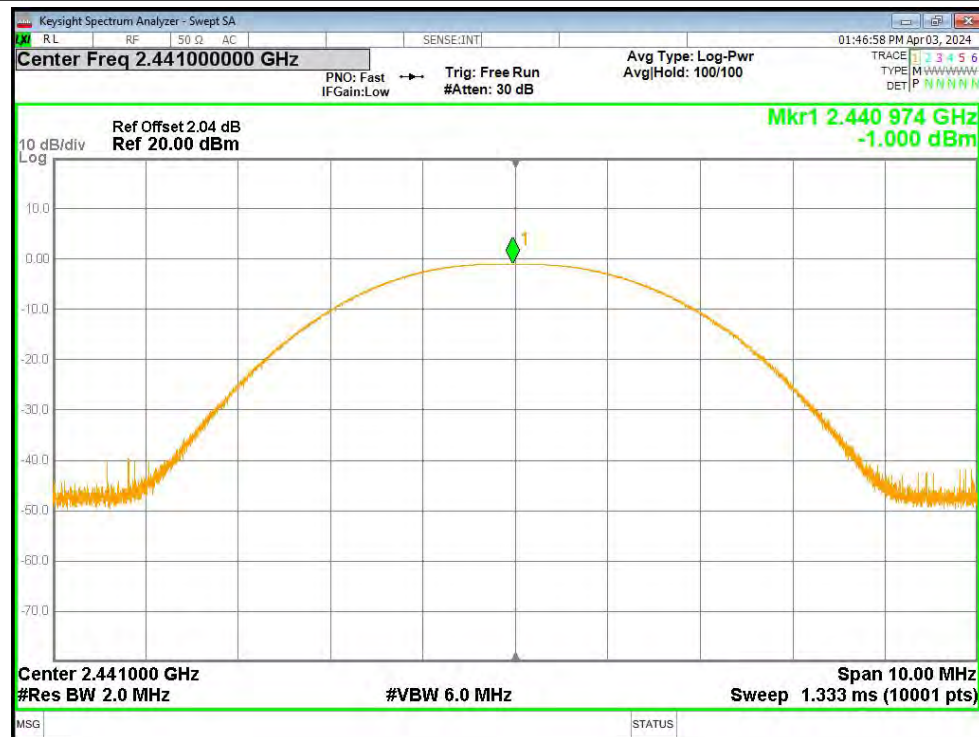
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-1.49	21	Pass
NVNT	1-DH5	2441	Ant1	-1	21	Pass
NVNT	1-DH5	2480	Ant1	-0.95	21	Pass
NVNT	2-DH5	2402	Ant1	-0.74	21	Pass
NVNT	2-DH5	2441	Ant1	-0.12	21	Pass
NVNT	2-DH5	2480	Ant1	-0.01	21	Pass
NVNT	3-DH5	2402	Ant1	-0.63	21	Pass
NVNT	3-DH5	2441	Ant1	0.04	21	Pass
NVNT	3-DH5	2480	Ant1	0.15	21	Pass

Test Graphs

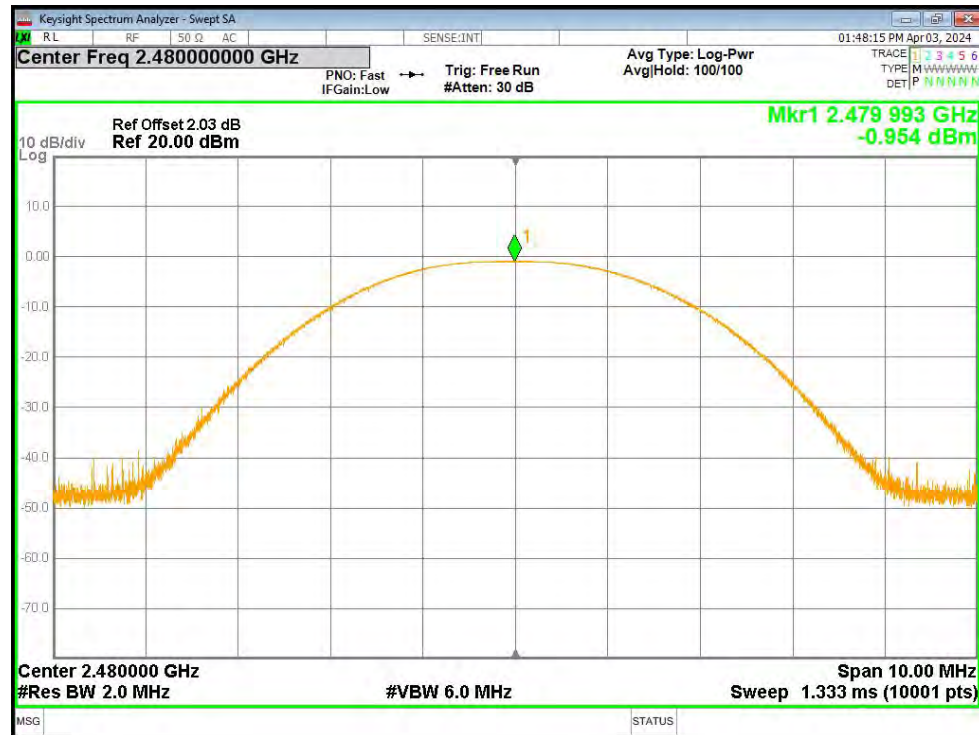
Peak Power NVNT 1-DH5 2402MHz Ant1



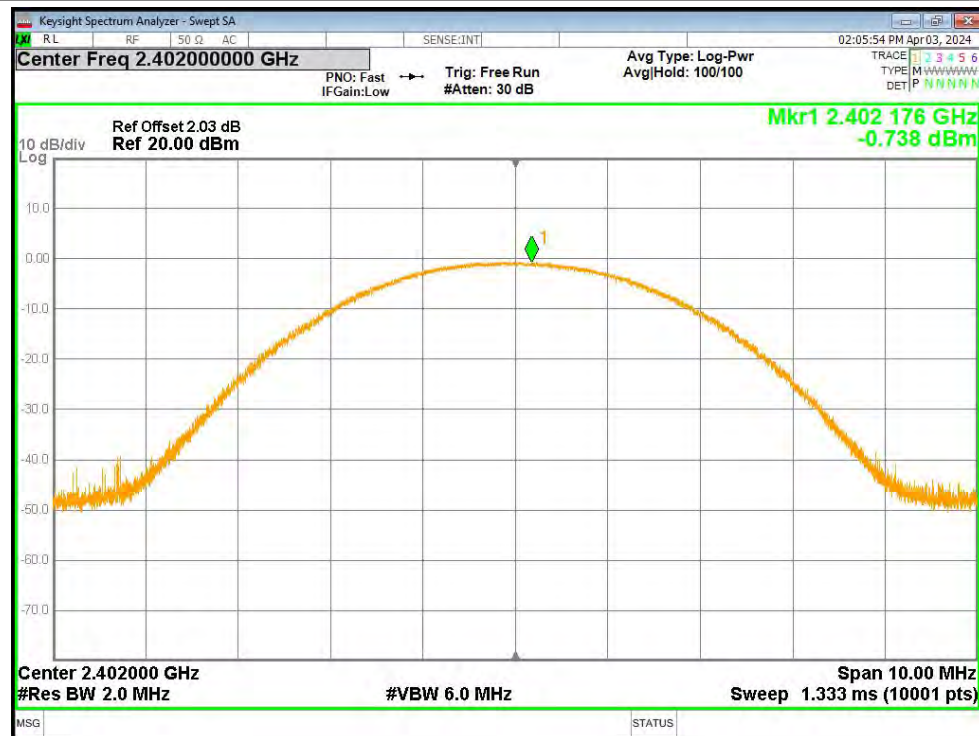
Peak Power NVNT 1-DH5 2441MHz Ant1



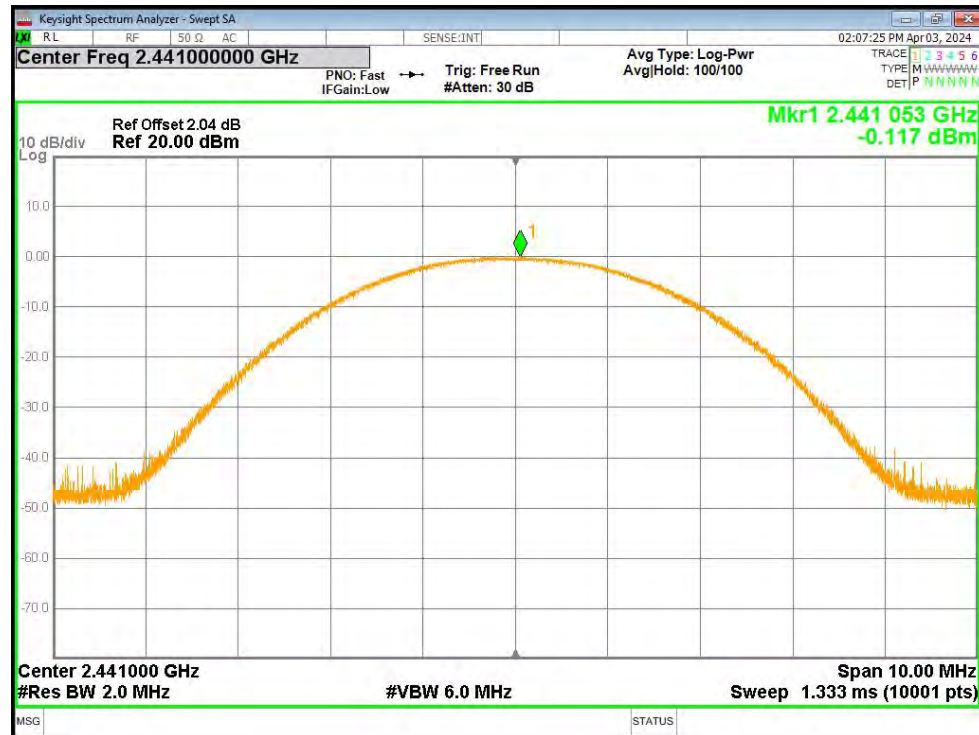
Peak Power NVNT 1-DH5 2480MHz Ant1



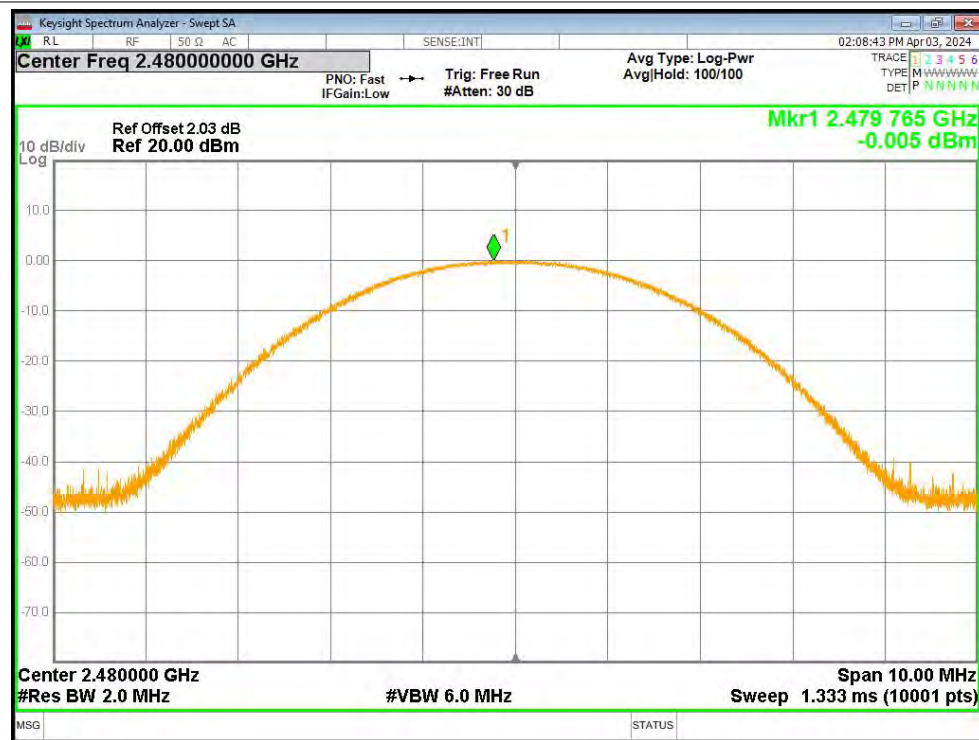
Peak Power NVNT 2-DH5 2402MHz Ant1



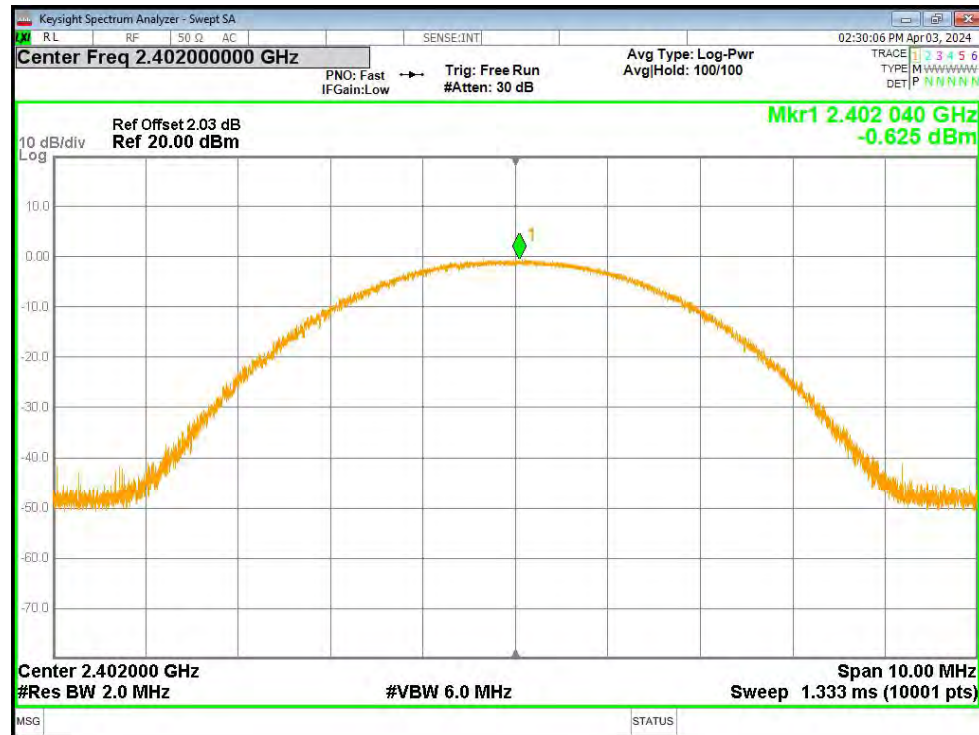
Peak Power NVNT 2-DH5 2441MHz Ant1



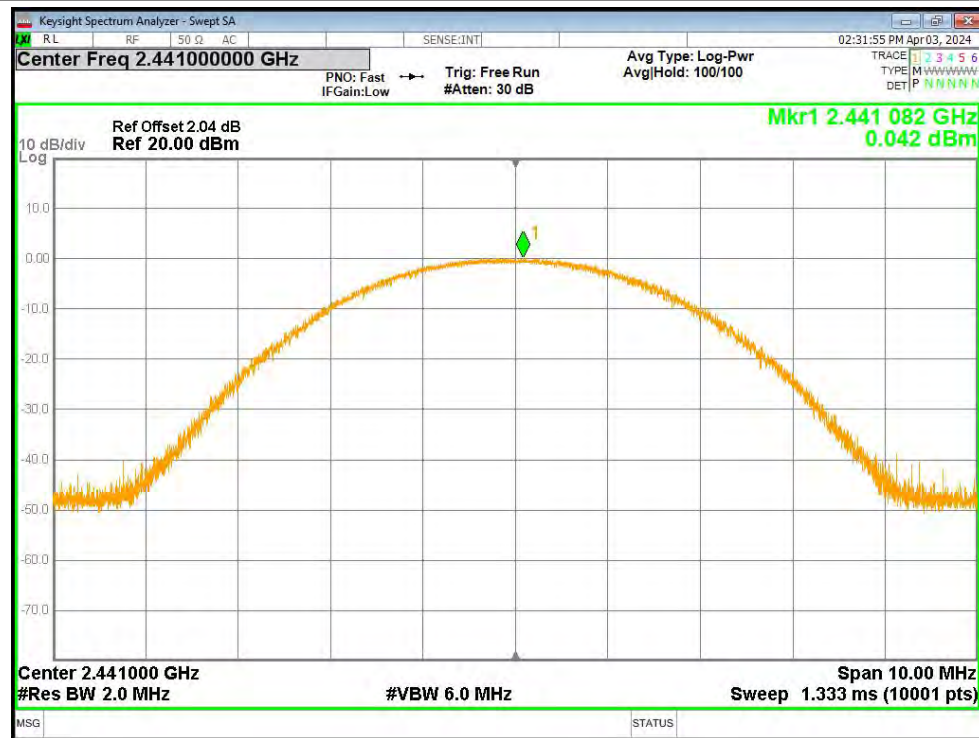
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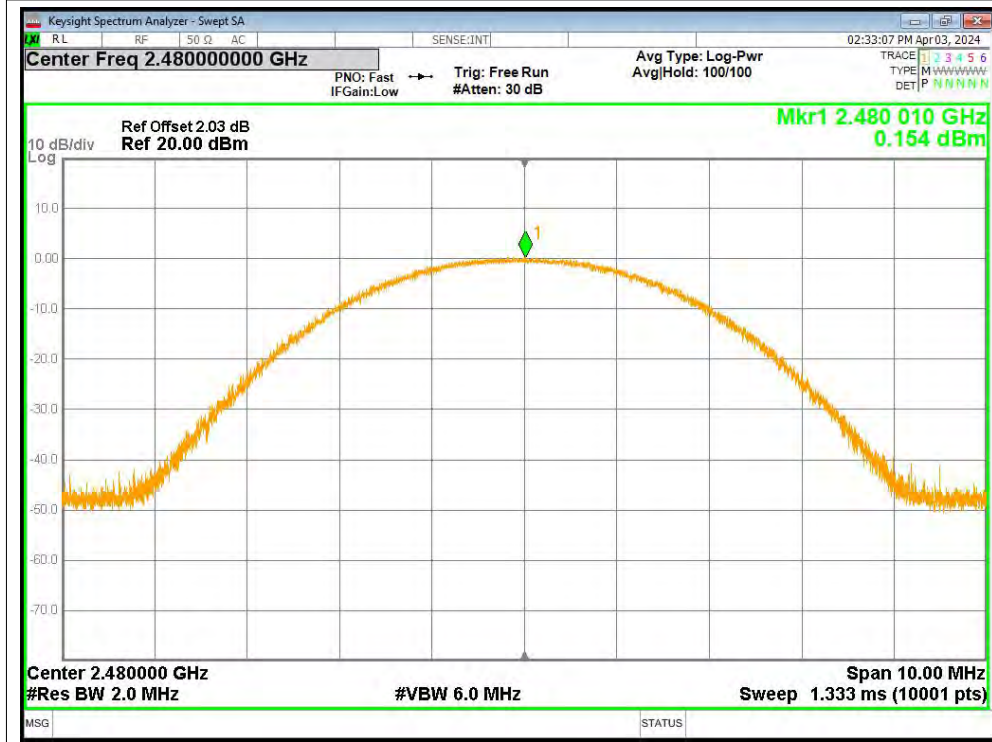
Peak Power NVNT 3-DH5 2402MHz Ant1



Peak Power NVNT 3-DH5 2441MHz Ant1



Peak Power NVNT 3-DH5 2480MHz Ant1

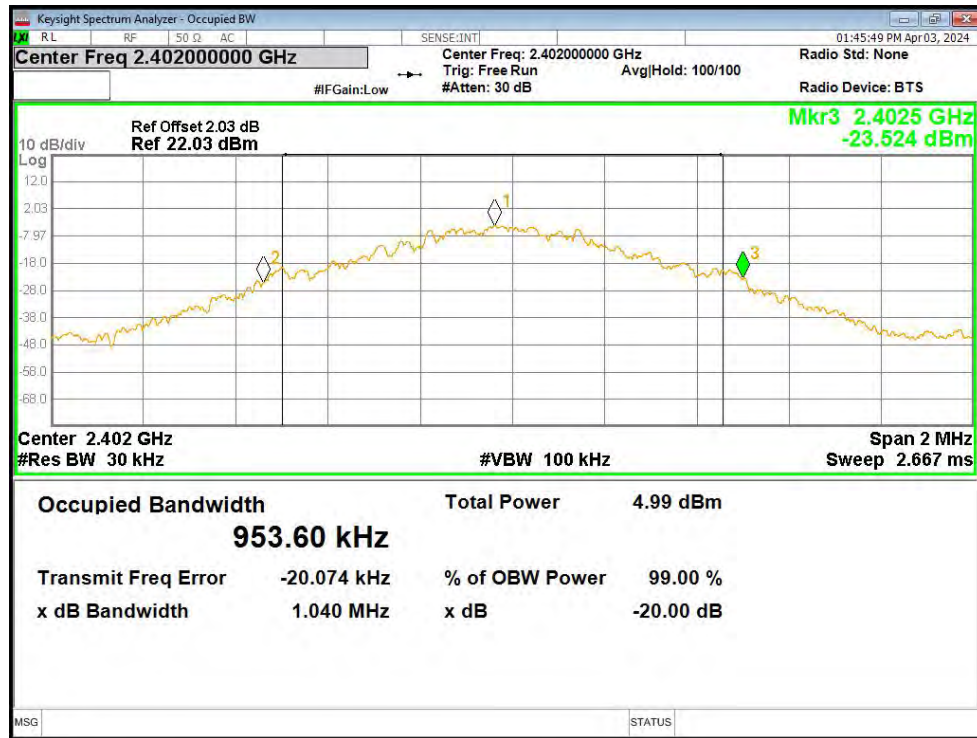


-20dB Bandwidth

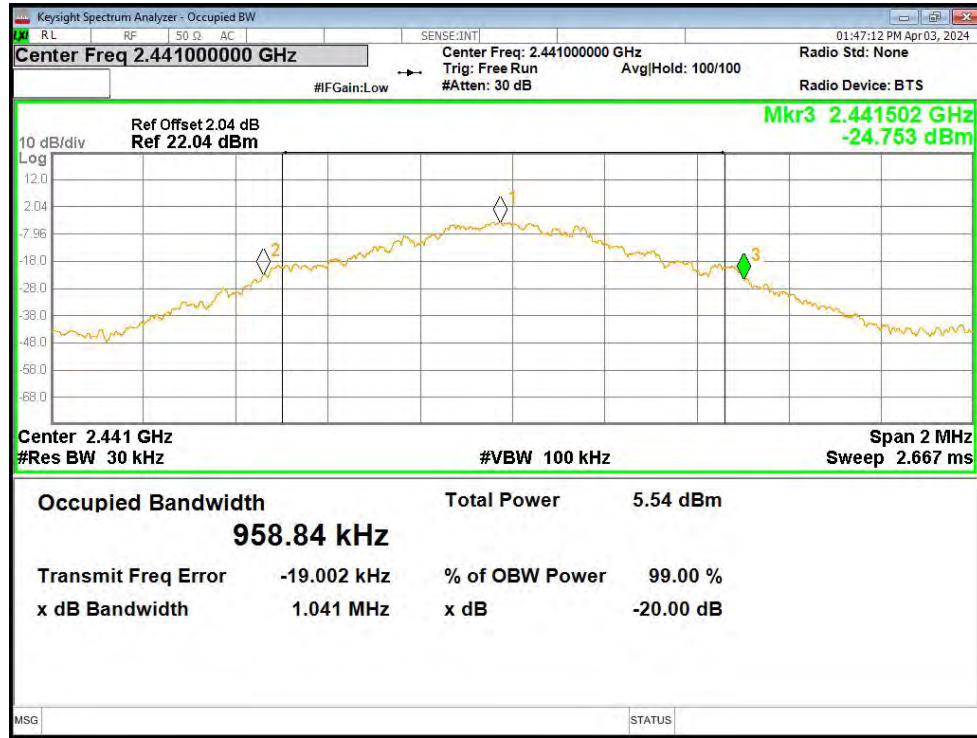
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	1.04	Pass
NVNT	1-DH5	2441	Ant1	1.041	Pass
NVNT	1-DH5	2480	Ant1	1.043	Pass
NVNT	2-DH5	2402	Ant1	1.326	Pass
NVNT	2-DH5	2441	Ant1	1.332	Pass
NVNT	2-DH5	2480	Ant1	1.309	Pass
NVNT	3-DH5	2402	Ant1	1.295	Pass
NVNT	3-DH5	2441	Ant1	1.307	Pass
NVNT	3-DH5	2480	Ant1	1.28	Pass

Test Graphs

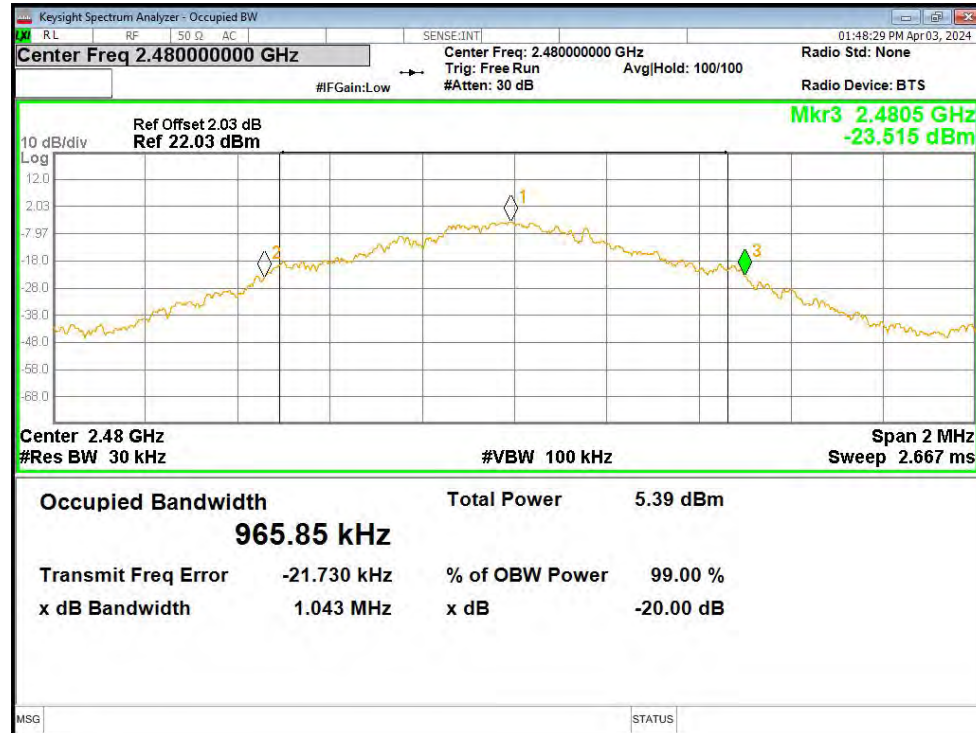
-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



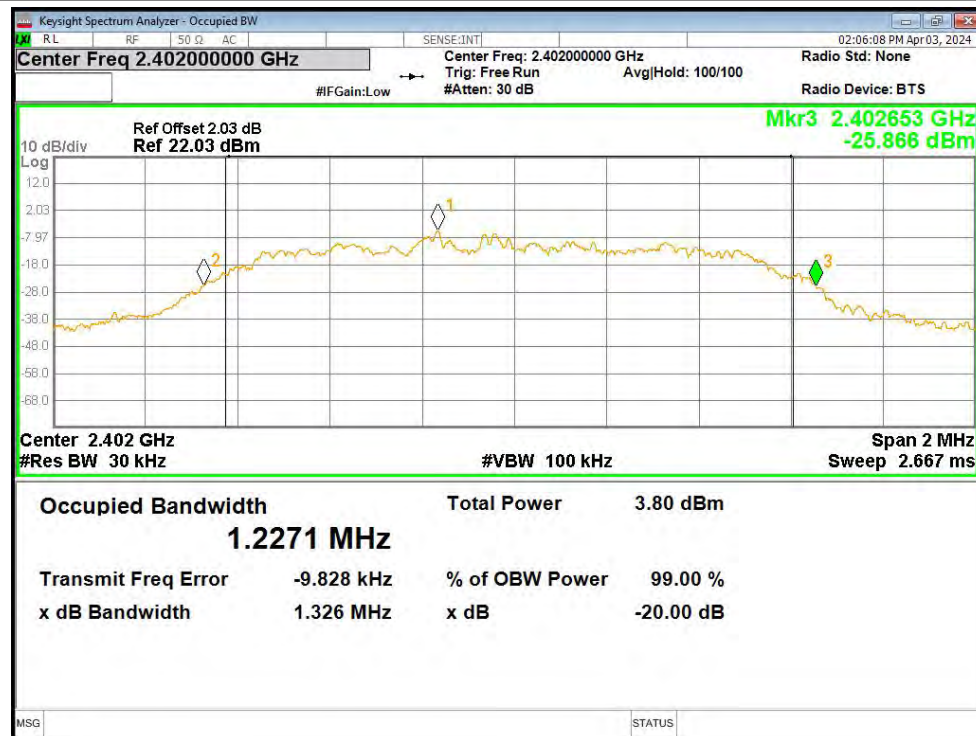
-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



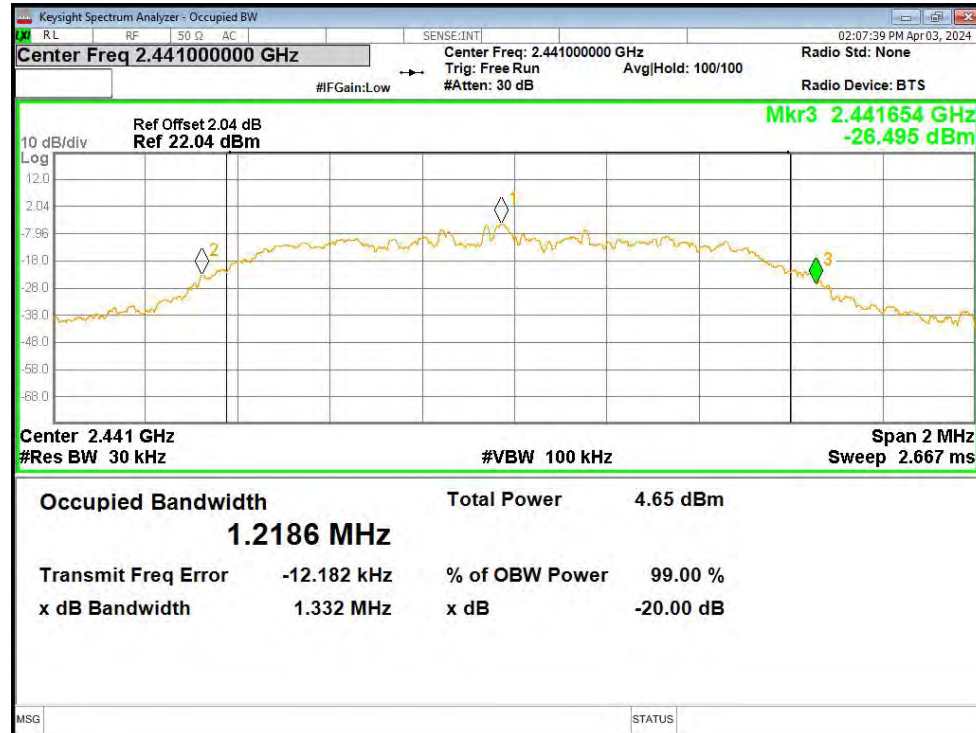
-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



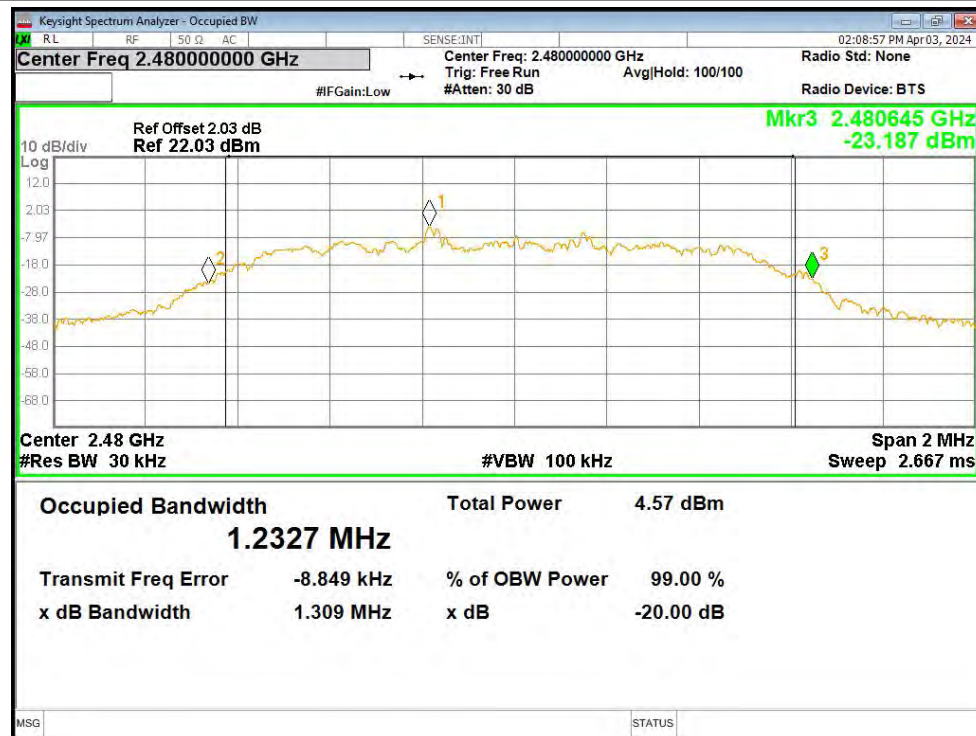
-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



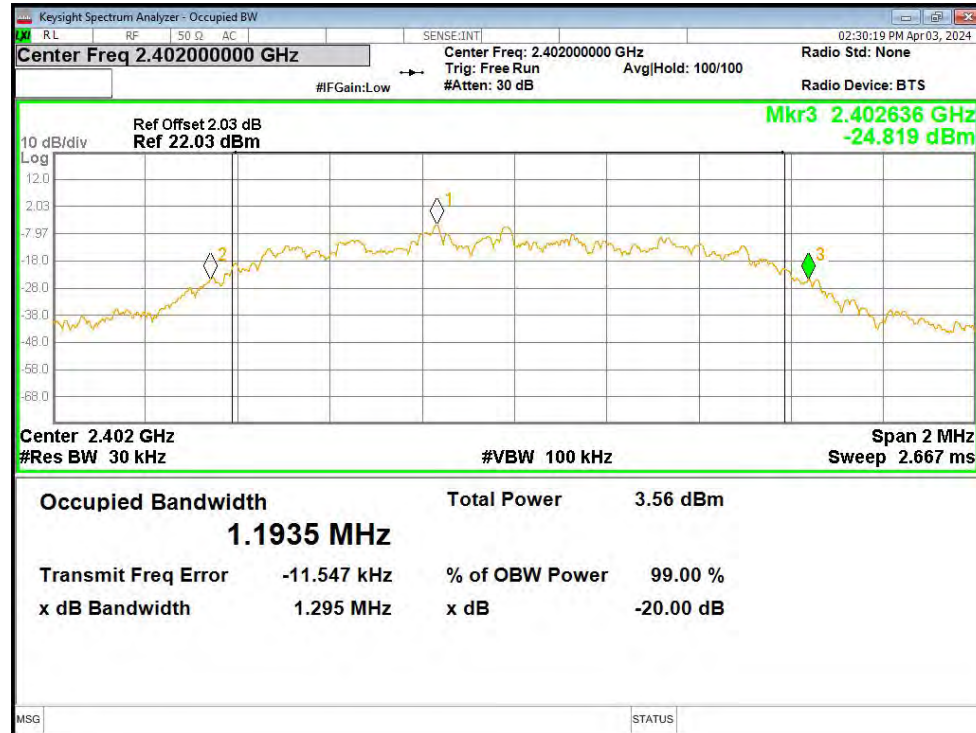
-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



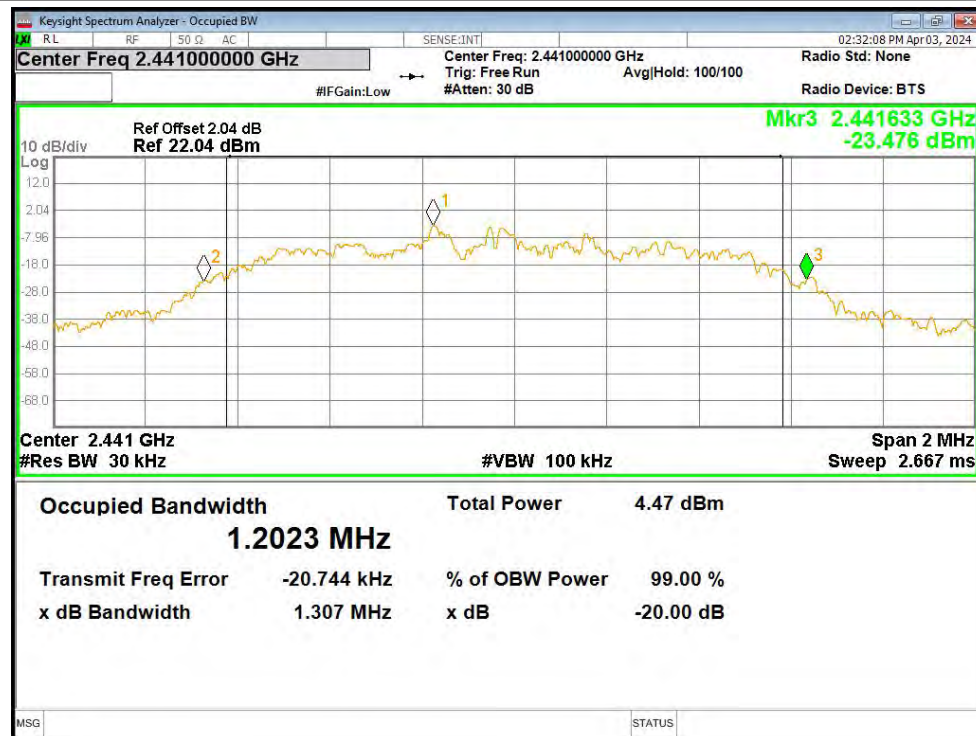
-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



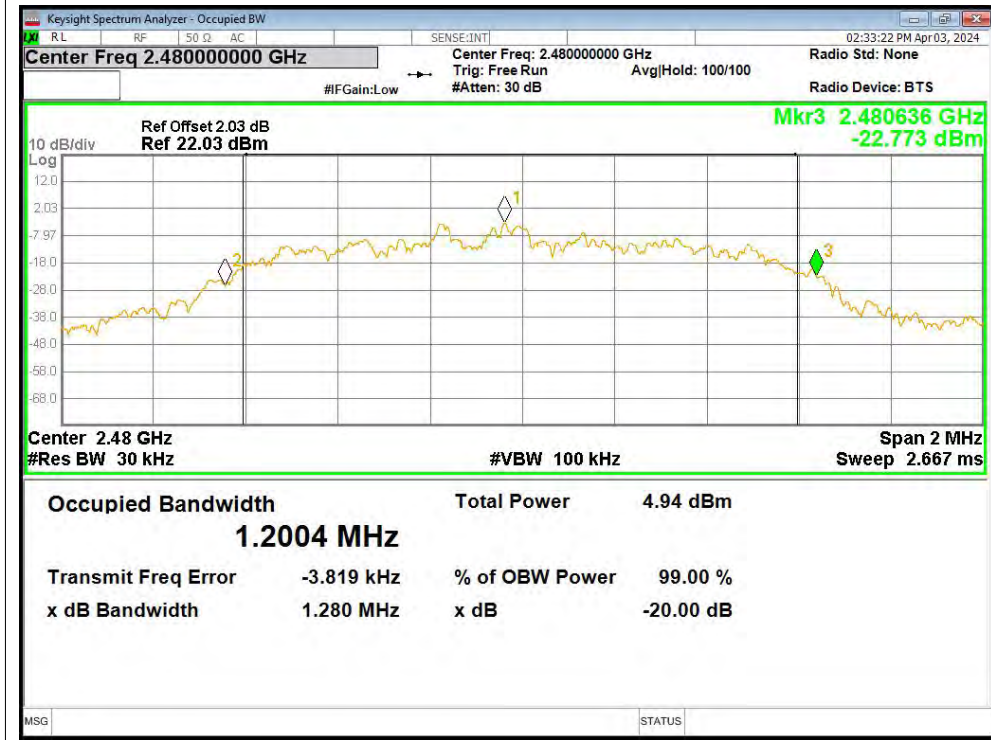
-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1

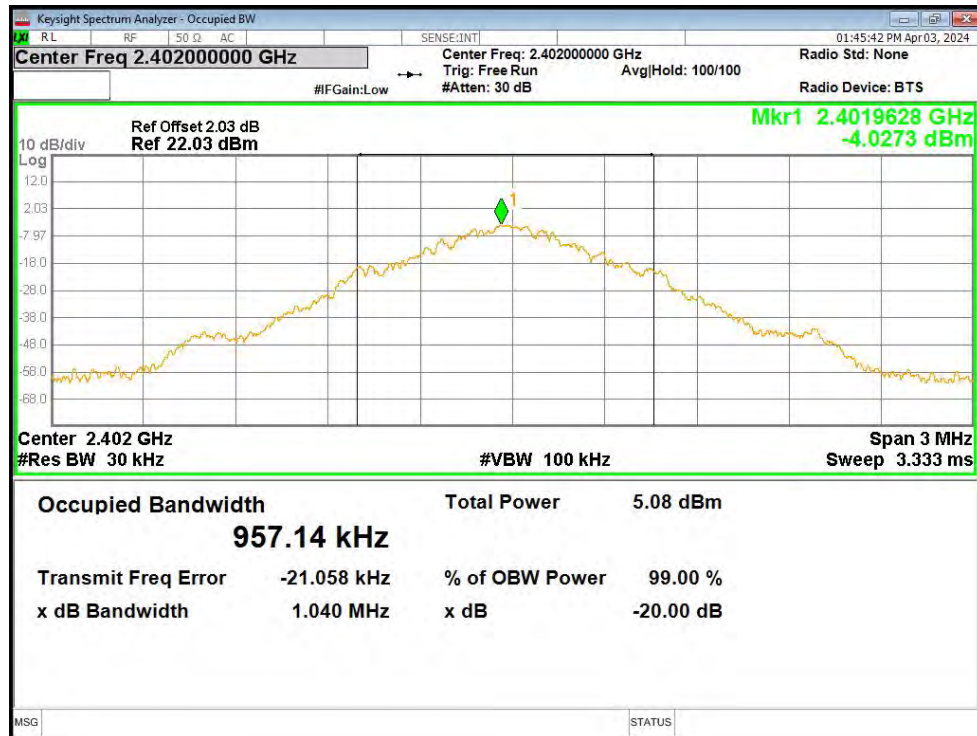


Occupied Channel Bandwidth

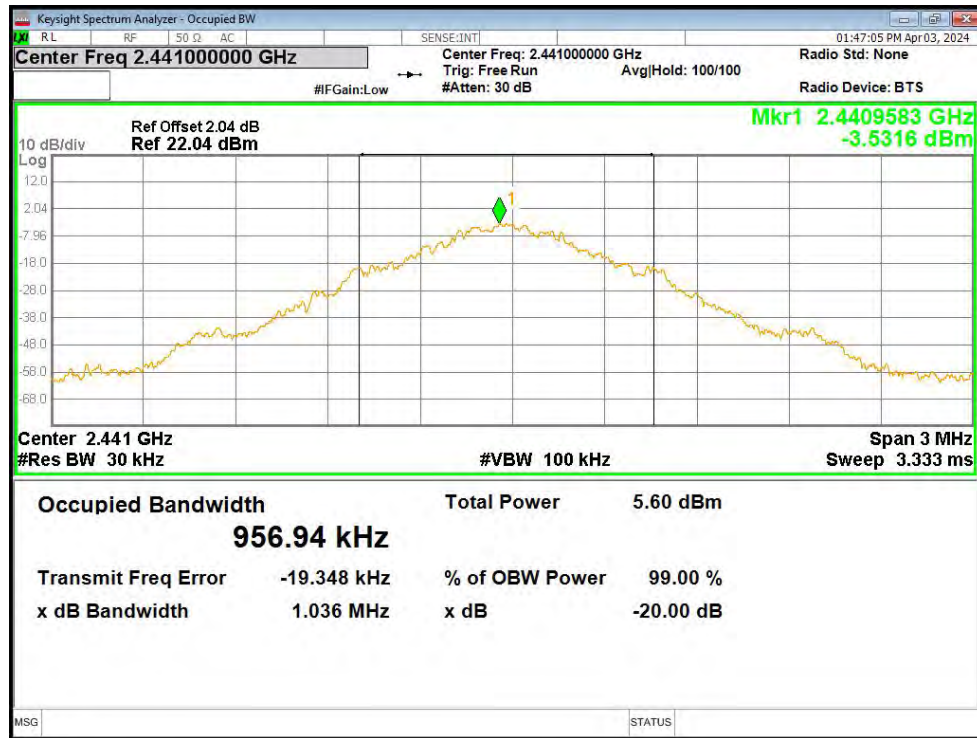
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH5	2402	Ant1	0.957
NVNT	1-DH5	2441	Ant1	0.957
NVNT	1-DH5	2480	Ant1	0.958
NVNT	2-DH5	2402	Ant1	1.232
NVNT	2-DH5	2441	Ant1	1.23
NVNT	2-DH5	2480	Ant1	1.238
NVNT	3-DH5	2402	Ant1	1.217
NVNT	3-DH5	2441	Ant1	1.223
NVNT	3-DH5	2480	Ant1	1.186

Test Graphs

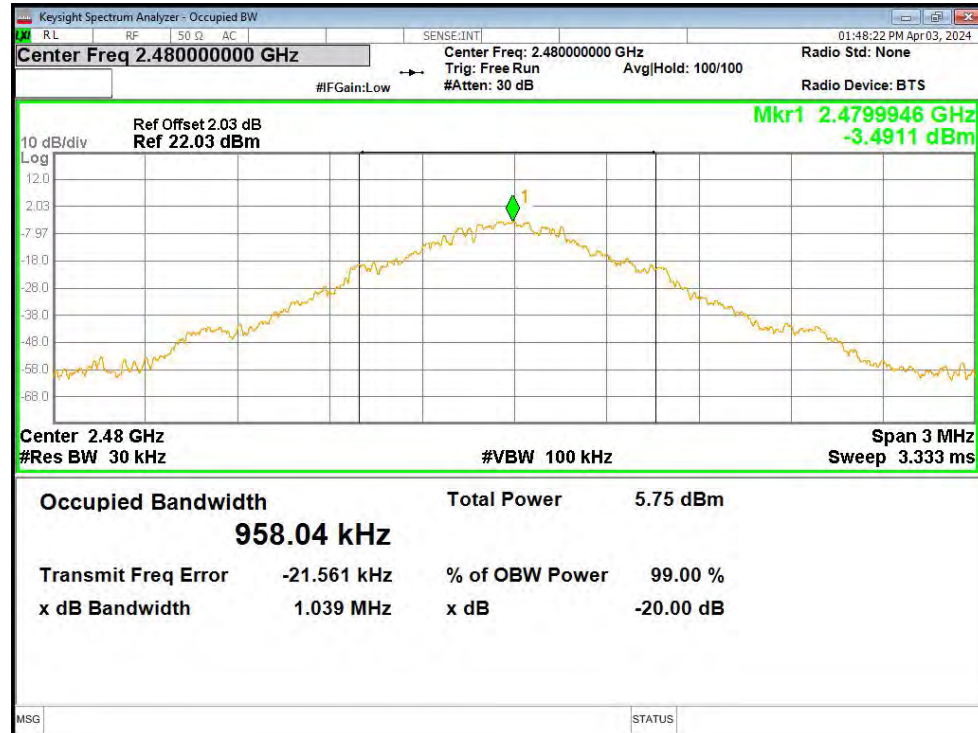
OBW NVNT 1-DH5 2402MHz Ant1



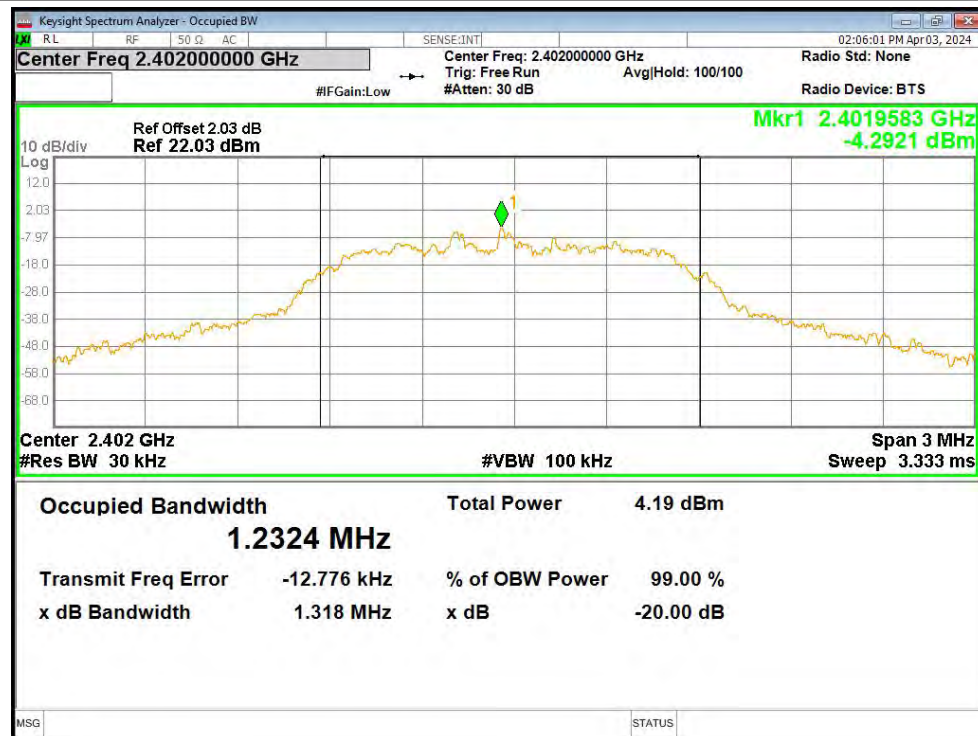
OBW NVNT 1-DH5 2441MHz Ant1



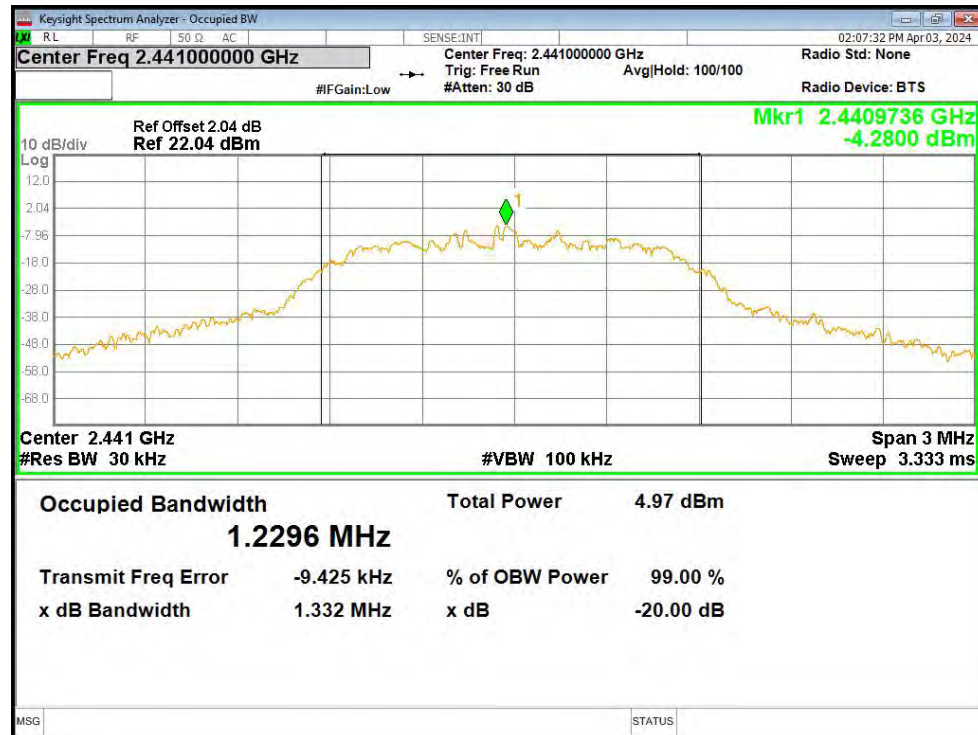
OBW NVNT 1-DH5 2480MHz Ant1



OBW NVNT 2-DH5 2402MHz Ant1



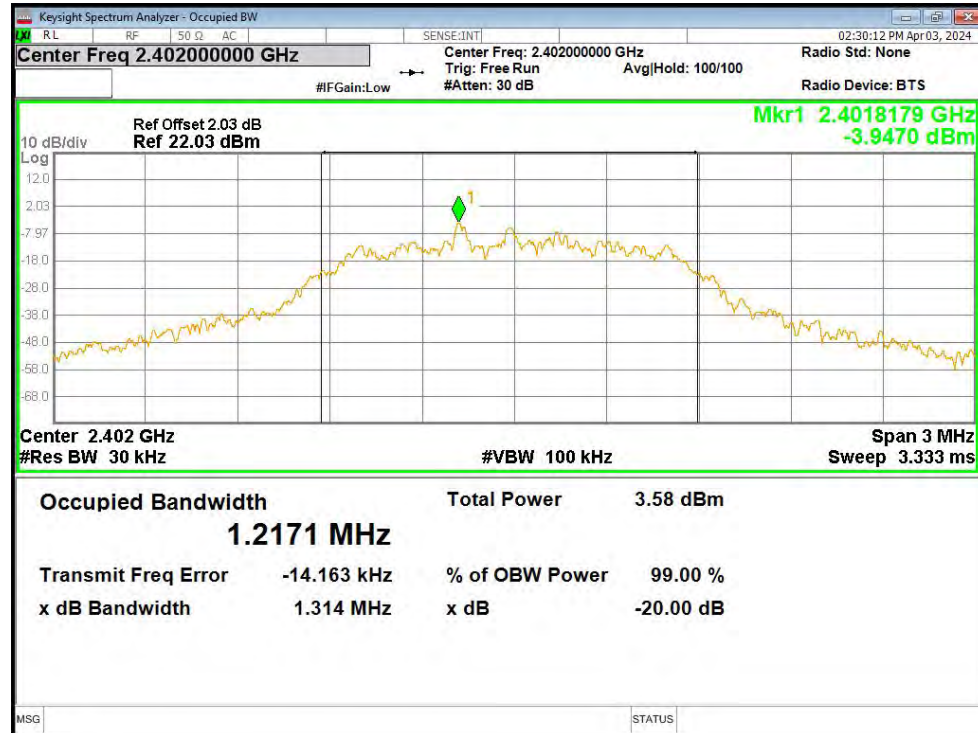
OBW NVNT 2-DH5 2441MHz Ant1



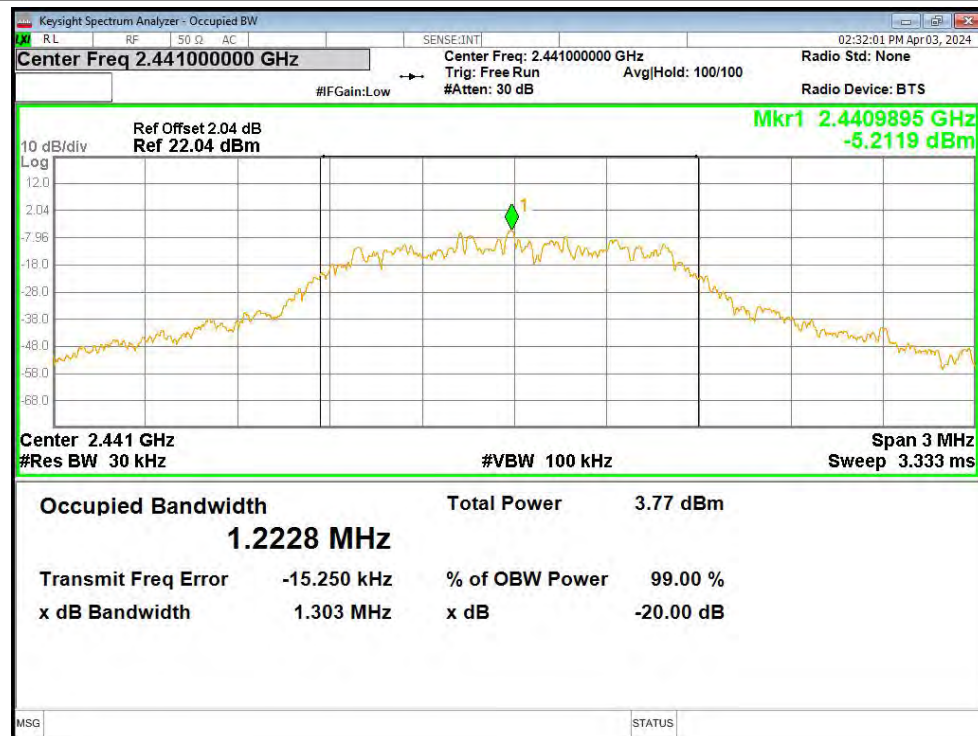
OBW NVNT 2-DH5 2480MHz Ant1



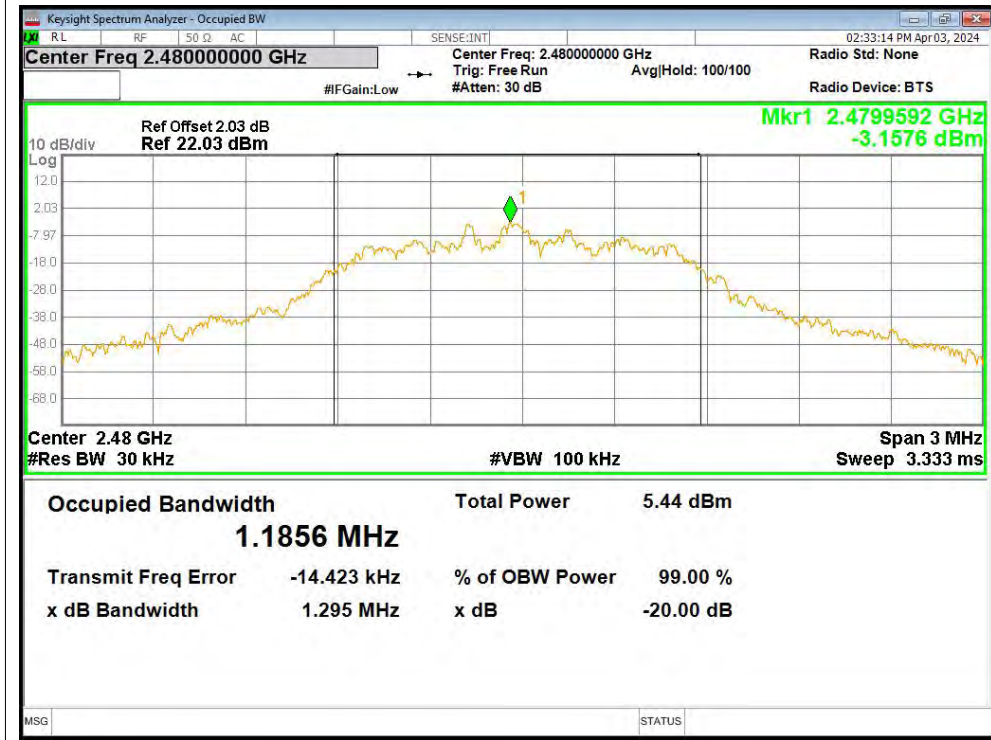
OBW NVNT 3-DH5 2402MHz Ant1



OBW NVNT 3-DH5 2441MHz Ant1



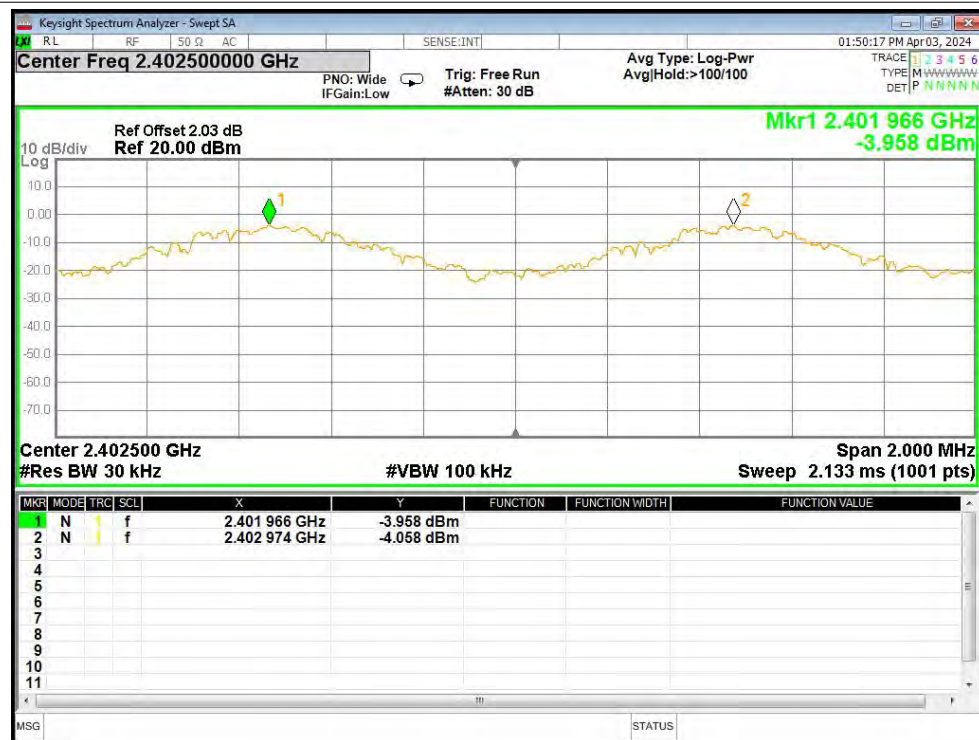
OBW NVNT 3-DH5 2480MHz Ant1



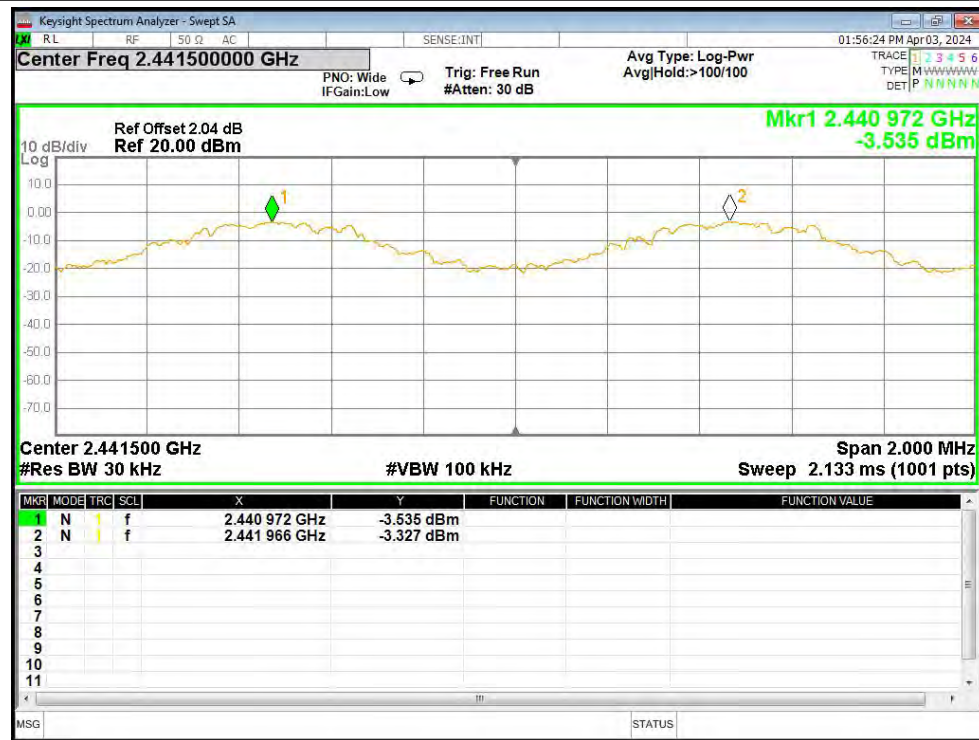
Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.966	2402.974	1.008	0.693	Pass
NVNT	1-DH5	Ant1	2440.972	2441.966	0.994	0.694	Pass
NVNT	1-DH5	Ant1	2478.956	2479.954	0.998	0.695	Pass
NVNT	2-DH5	Ant1	2401.816	2402.948	1.132	0.884	Pass
NVNT	2-DH5	Ant1	2440.816	2441.82	1.004	0.888	Pass
NVNT	2-DH5	Ant1	2478.952	2479.958	1.006	0.873	Pass
NVNT	3-DH5	Ant1	2401.818	2402.822	1.004	0.863	Pass
NVNT	3-DH5	Ant1	2440.822	2441.958	1.136	0.871	Pass
NVNT	3-DH5	Ant1	2478.962	2479.82	0.858	0.853	Pass

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 1-DH5 2441MHz Ant1



Keysight Spectrum Analyzer - Swept SA

Center Freq 2.479500000 GHz

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

Avg Type: Log-Pwr Avg|Hold: >100/100

02:01:10 PM Apr 03, 2024

Ref Offset 2.03 dB Ref 20.00 dBm

Mkr1 2.478 956 GHz -3.355 dBm

10 dB/div Log

Center 2.479500 GHz Span 2.000 MHz #Res BW 30 kHz #VBW 100 kHz Sweep 2.133 ms (1001 pts)

Mkr	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f	f	2.478 956 GHz	-3.355 dBm			
2	N	f	f	2.479 954 GHz	-3.351 dBm			
3								
4								
5								
6								
7								
8								
9								
10								
11								

[illegible]

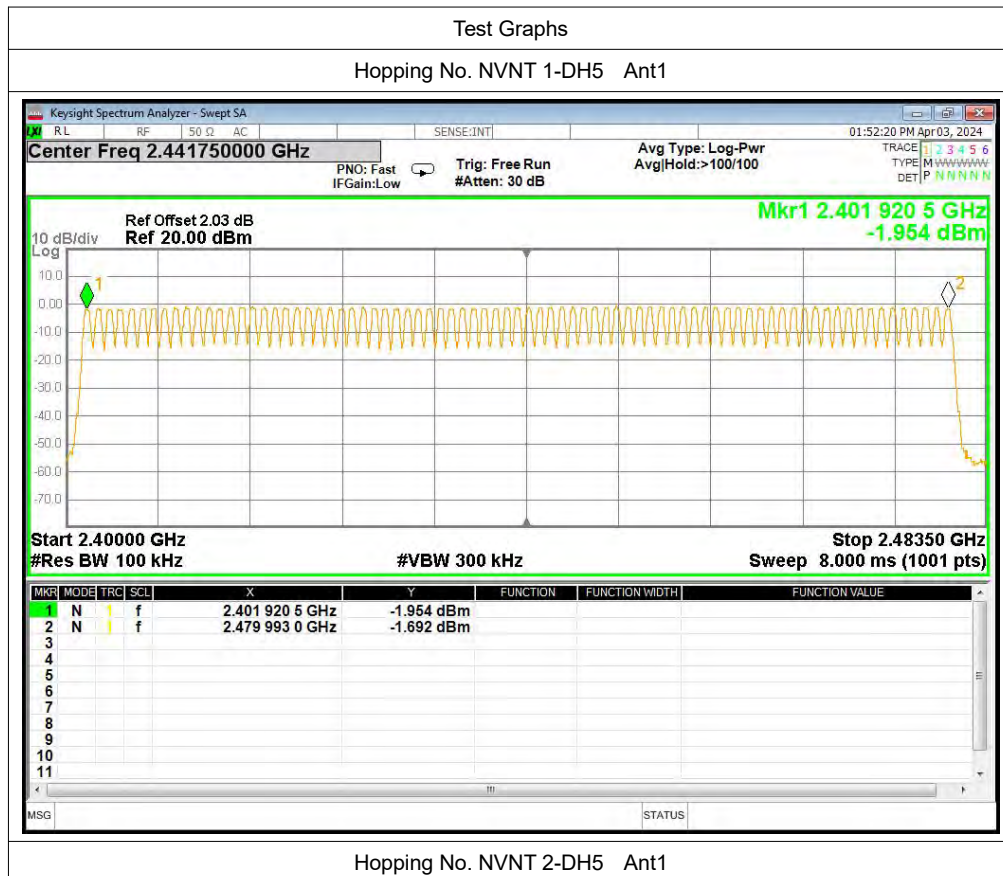
[illegible][illegible]

[illegible][illegible]

[illegible]

Number of Hopping Channel

Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass





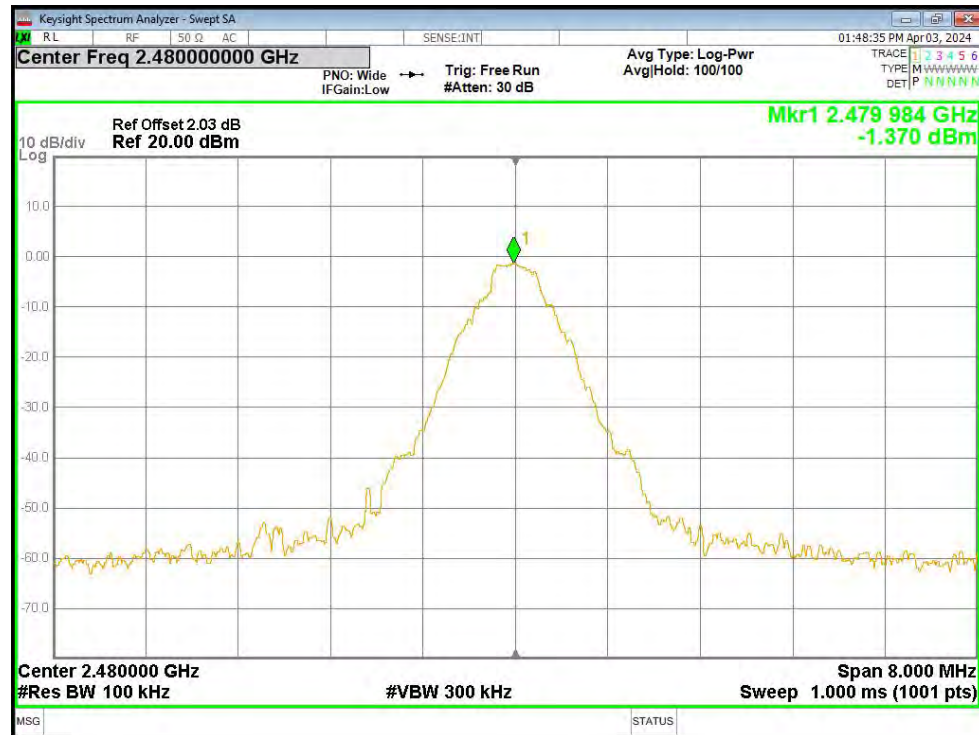
Hopping No. NVNT 3-DH5 Ant1



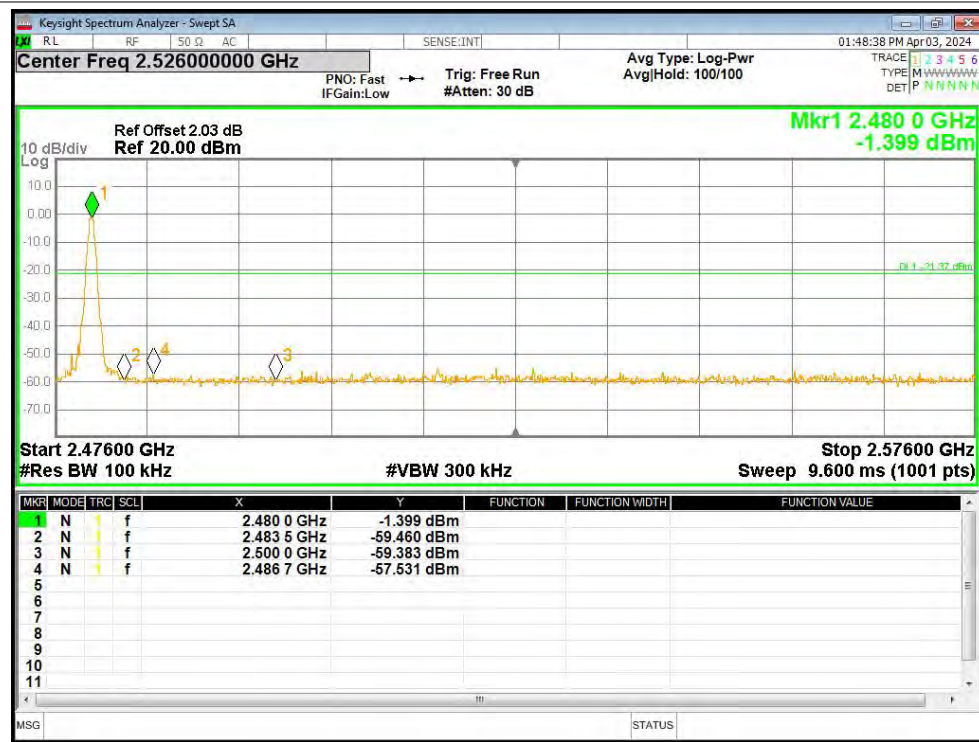
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-48.79	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-56.16	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-52.5	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-55.9	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-51.57	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-56.01	-20	Pass

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



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



Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

Keysight Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT 02:06:13 PM Apr 03, 2024

Center Freq 2.402000000 GHz PNO: Wide IFGain:Low Trig: Free Run #Atten: 30 dB Avg Type: Log-Pwr Avg/Hold: 100/100

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

Ref Offset 2.03 dB Ref 20.00 dBm

Mkr1 2.401984 GHz -2.657 dBm

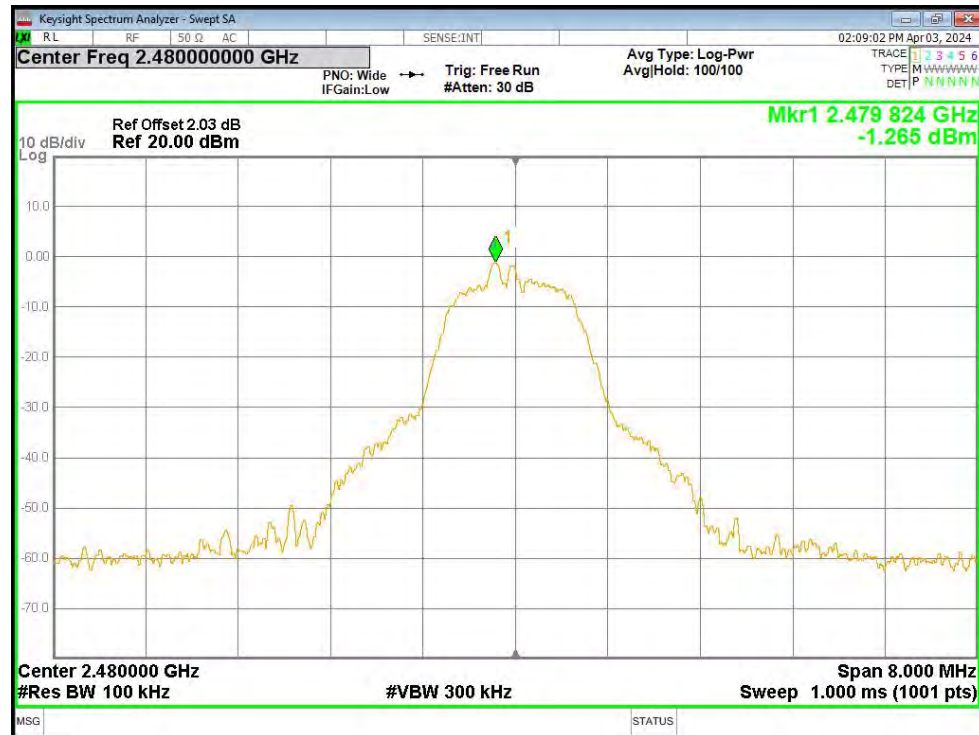
10 dB/div Log

Center 2.402000 GHz Span 8.000 MHz
#Res BW 100 kHz #VBW 300 kHz Sweep 1.000 ms (1001 pts)

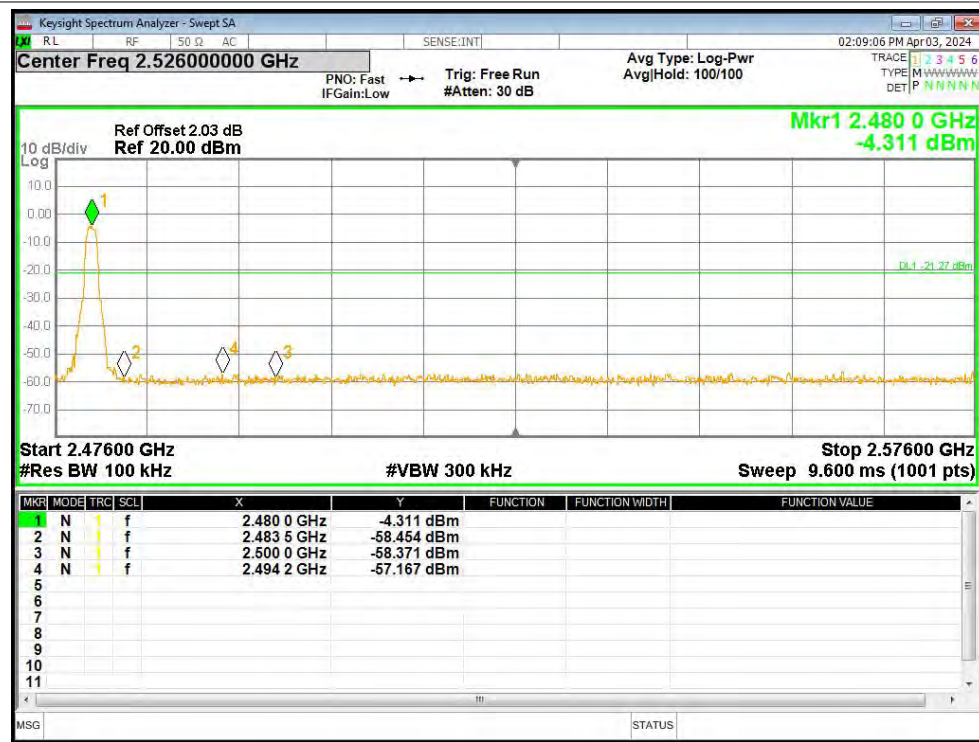
MSG STATUS

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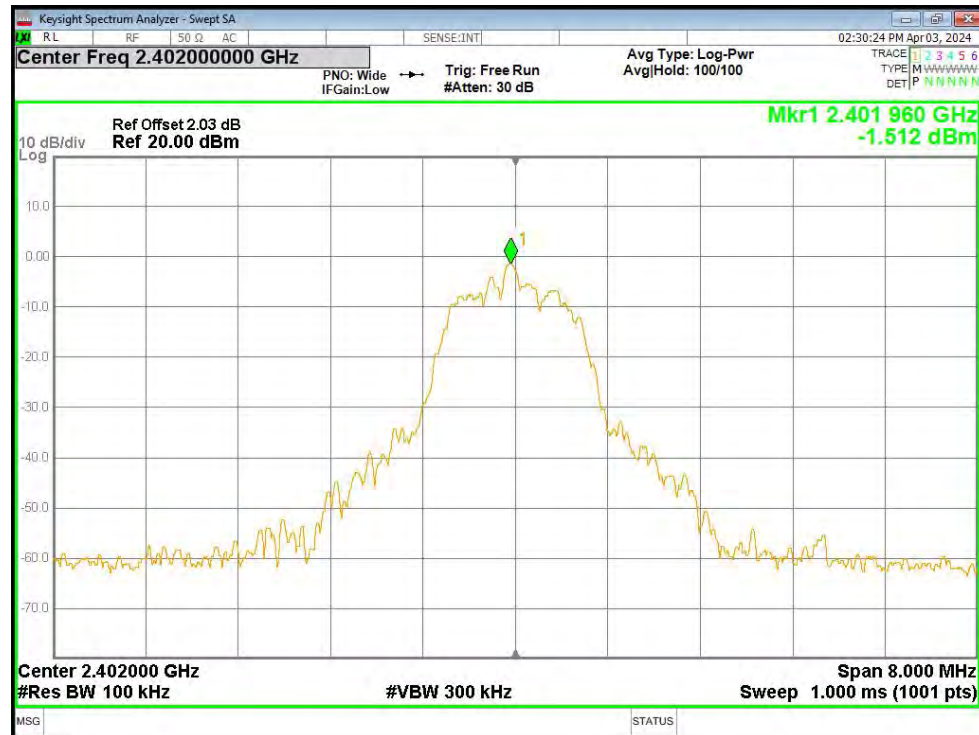
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



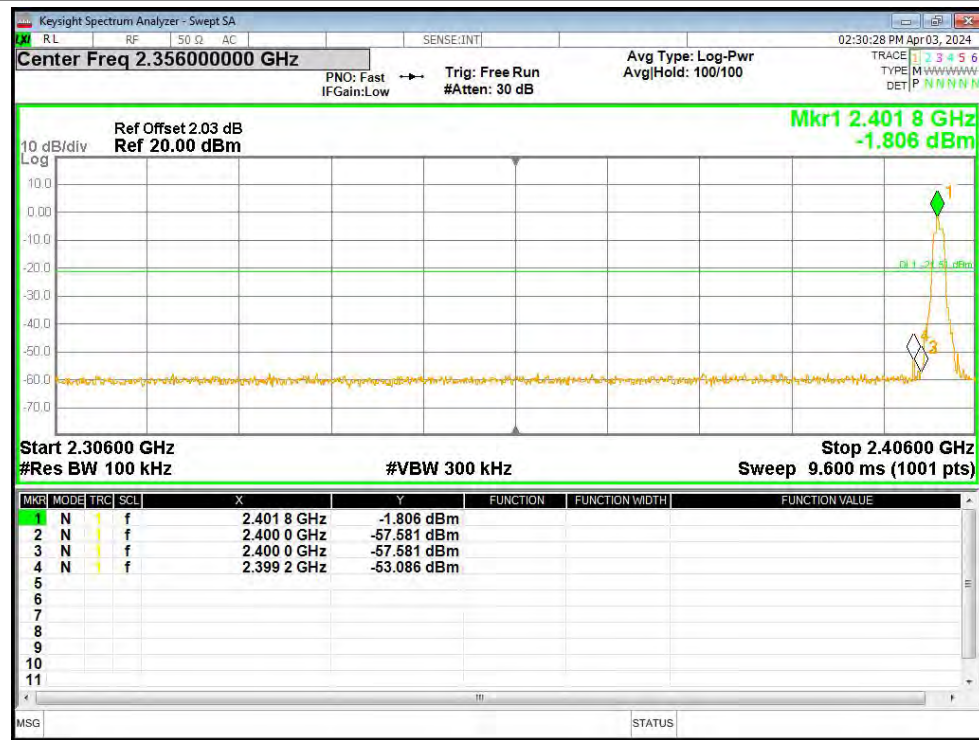
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



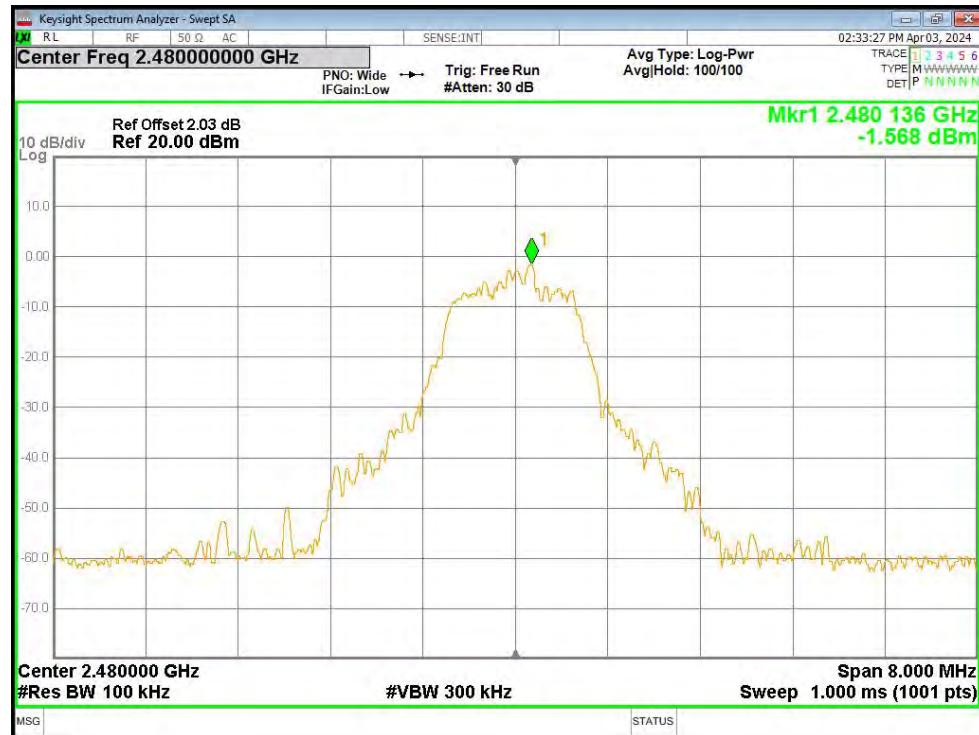
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



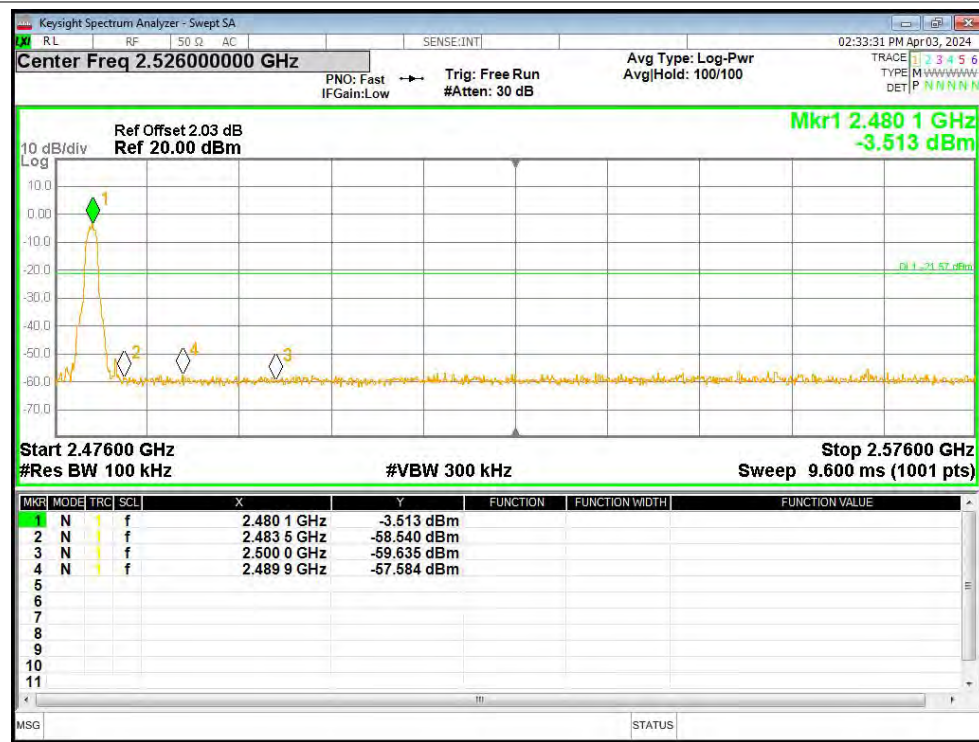
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission



Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission

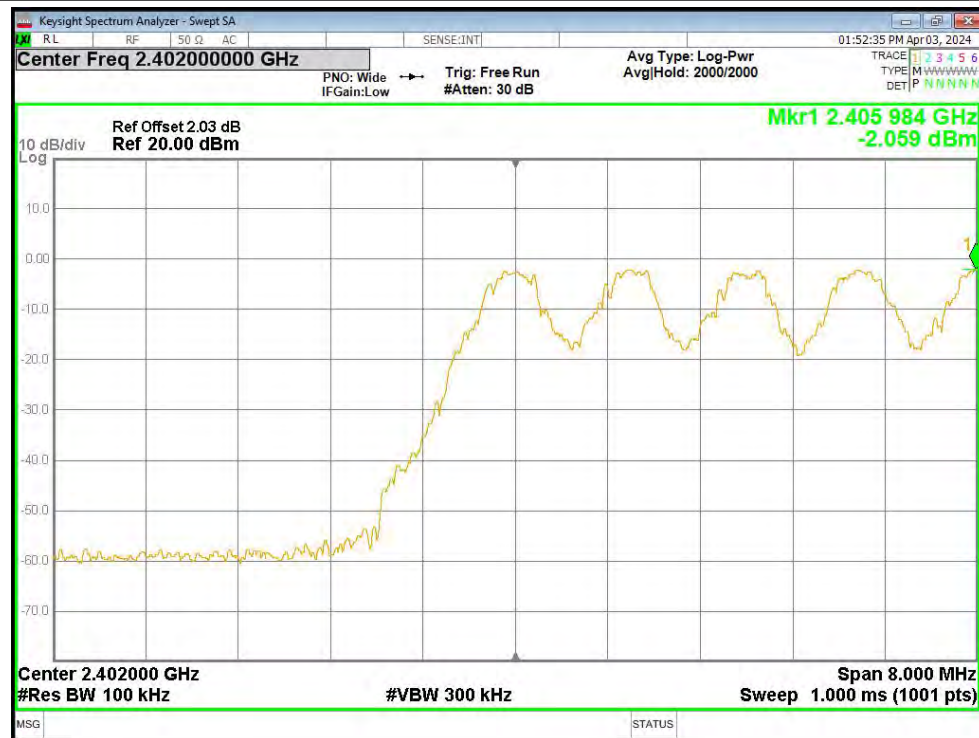


Band Edge(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-53.56	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-53.7	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-52.87	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-54.89	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-52.23	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-54.9	-20	Pass

Test Graphs

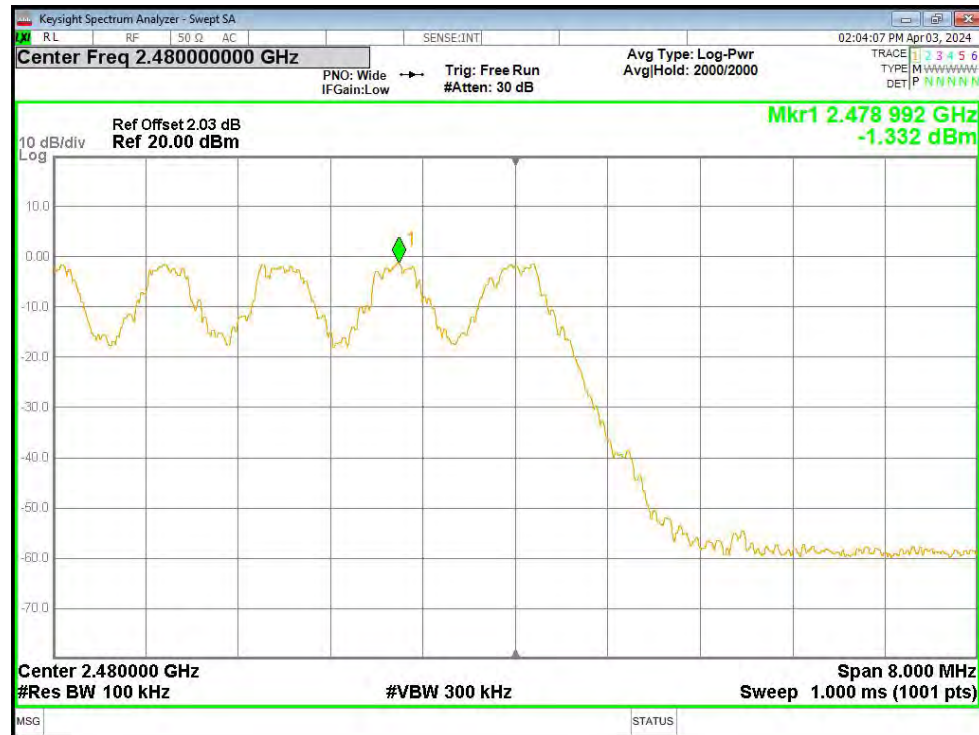
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref



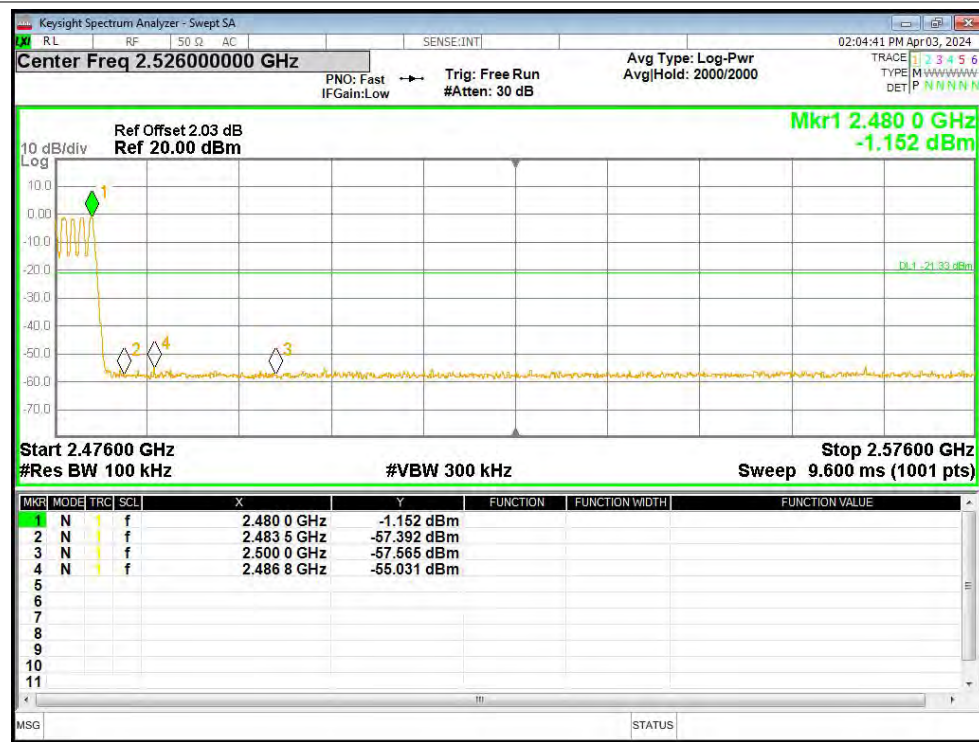
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



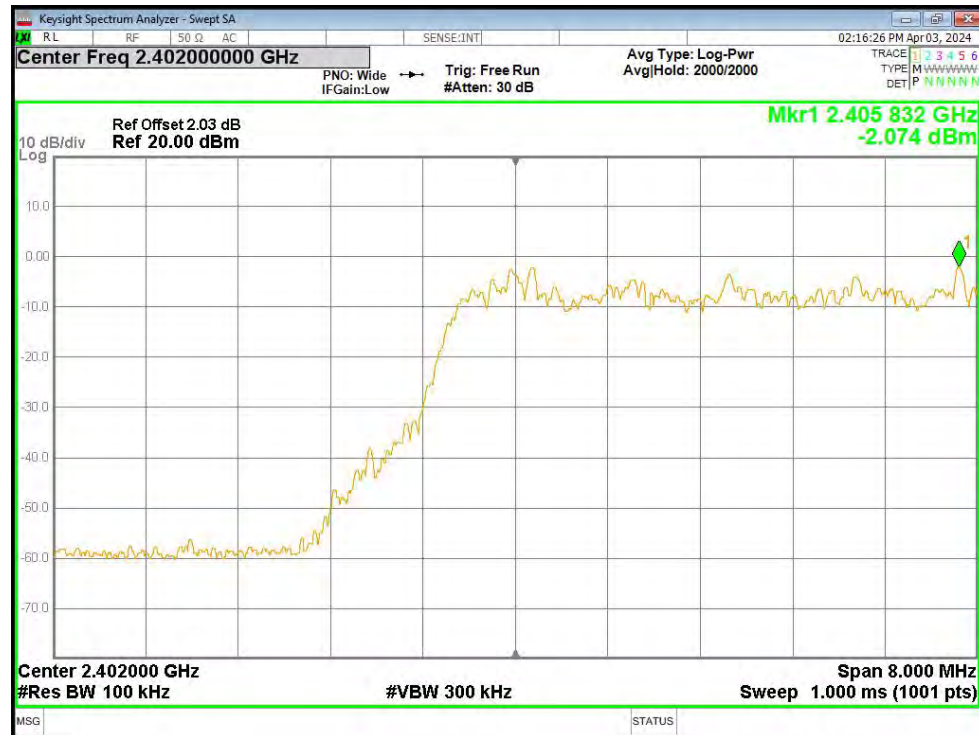
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



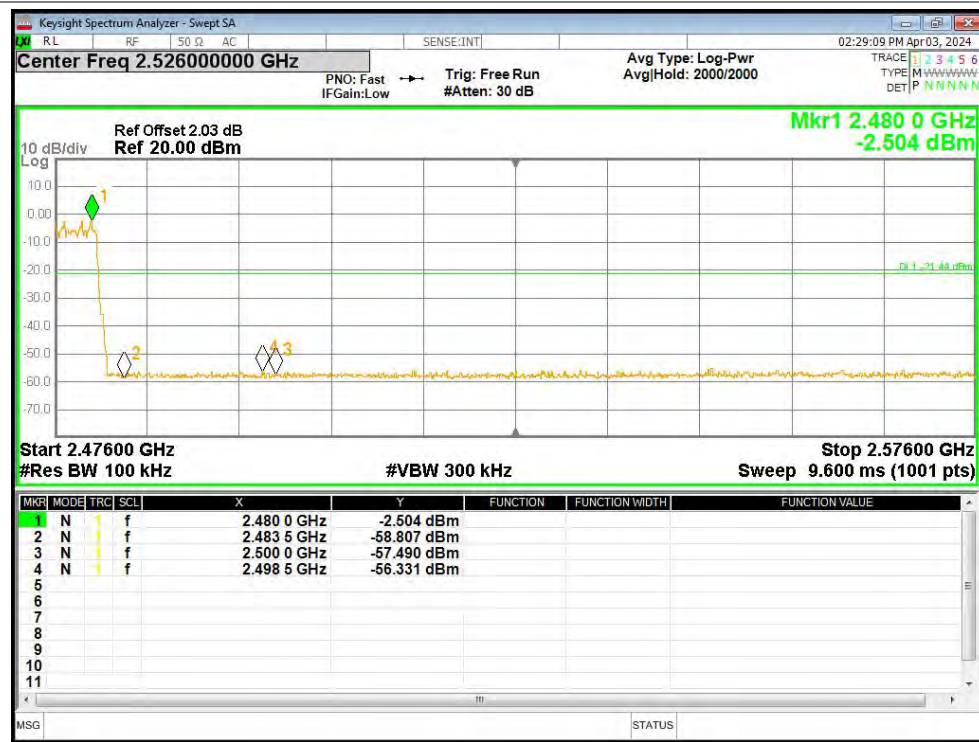
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission



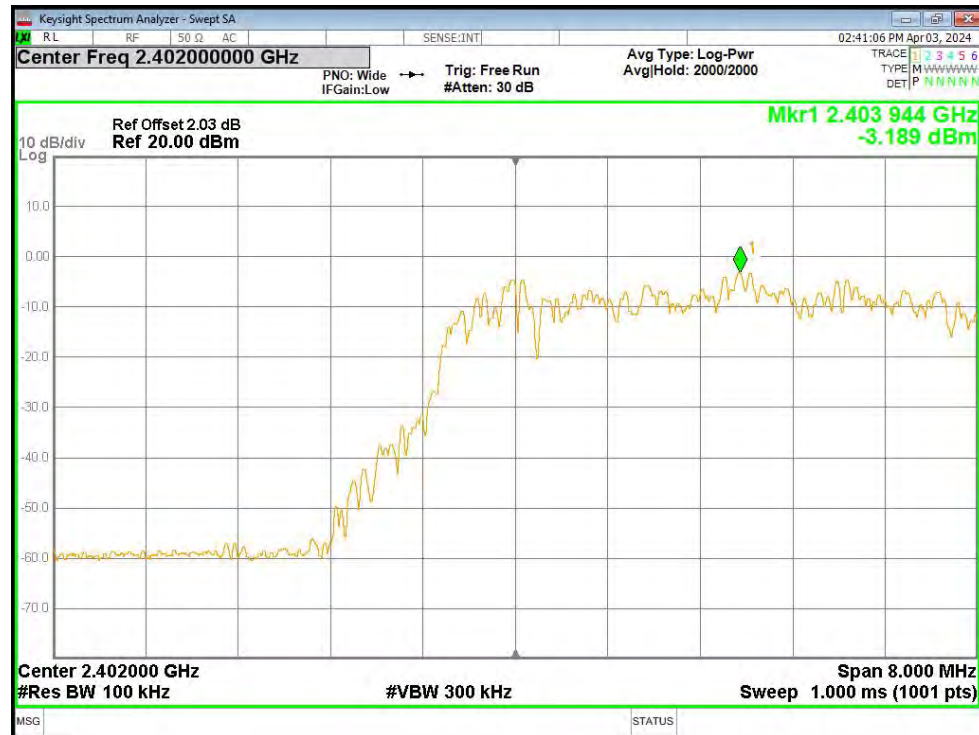
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



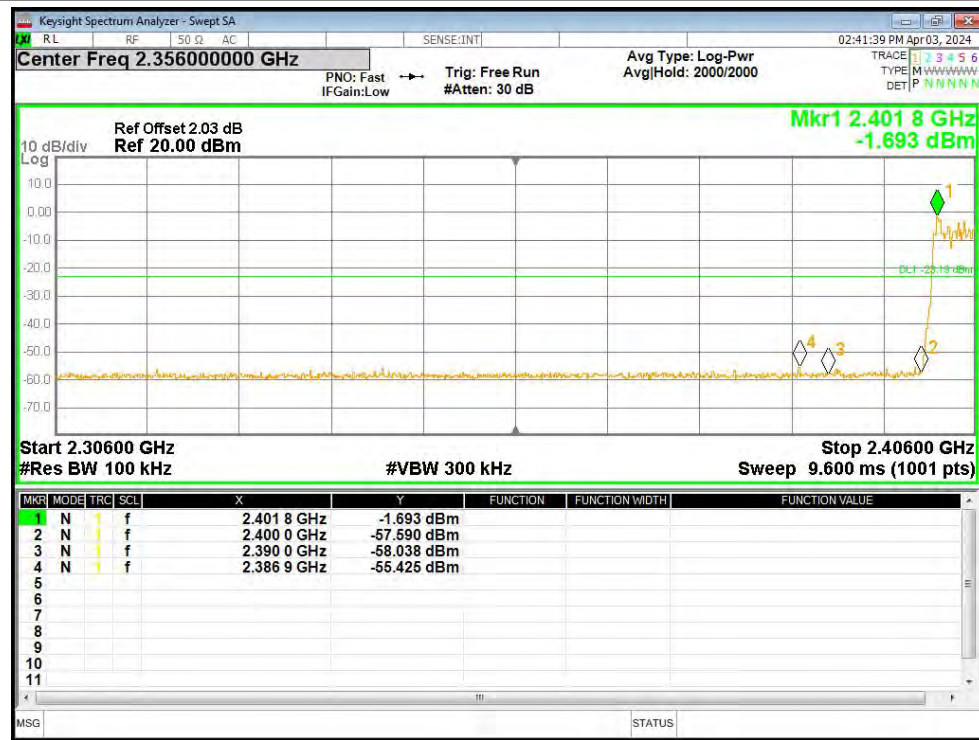
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission



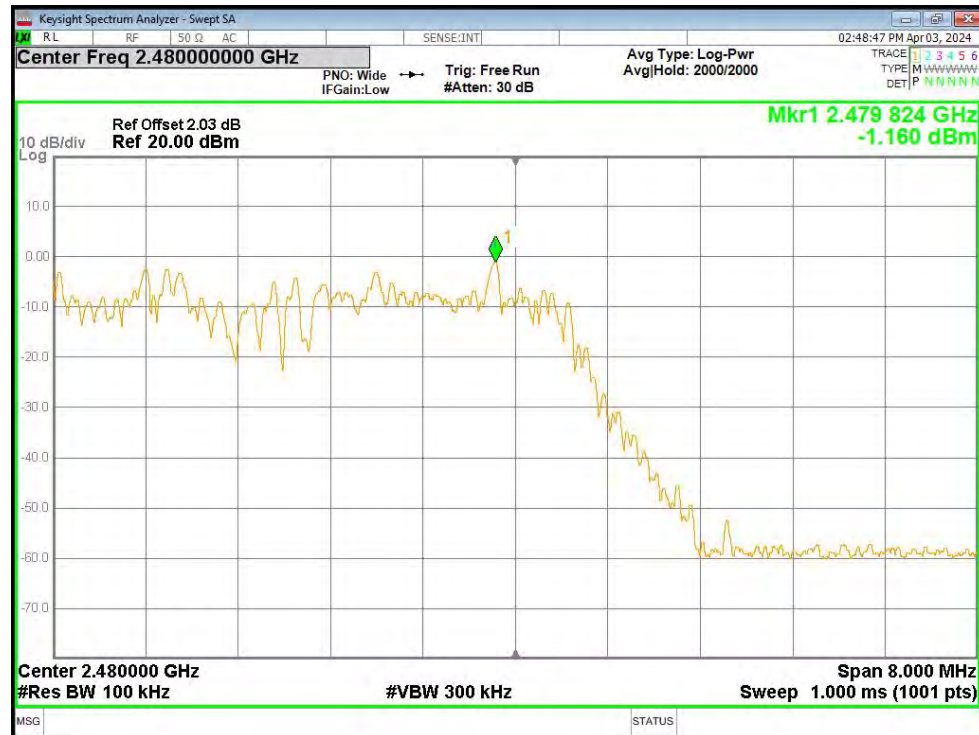
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



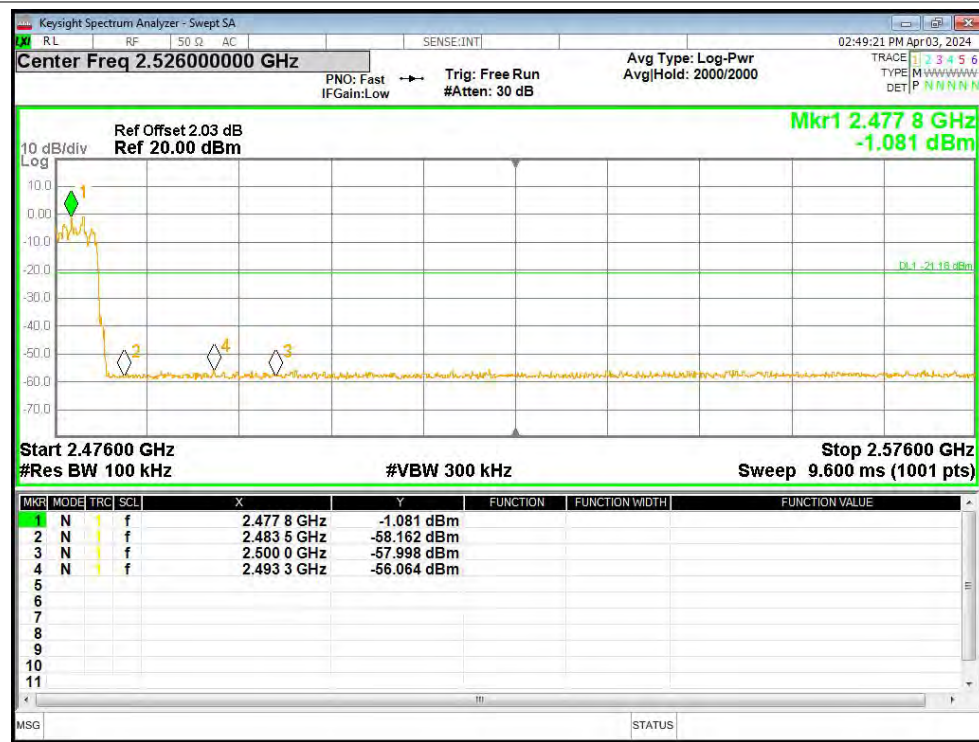
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Emission



Conducted RF Spurious Emission

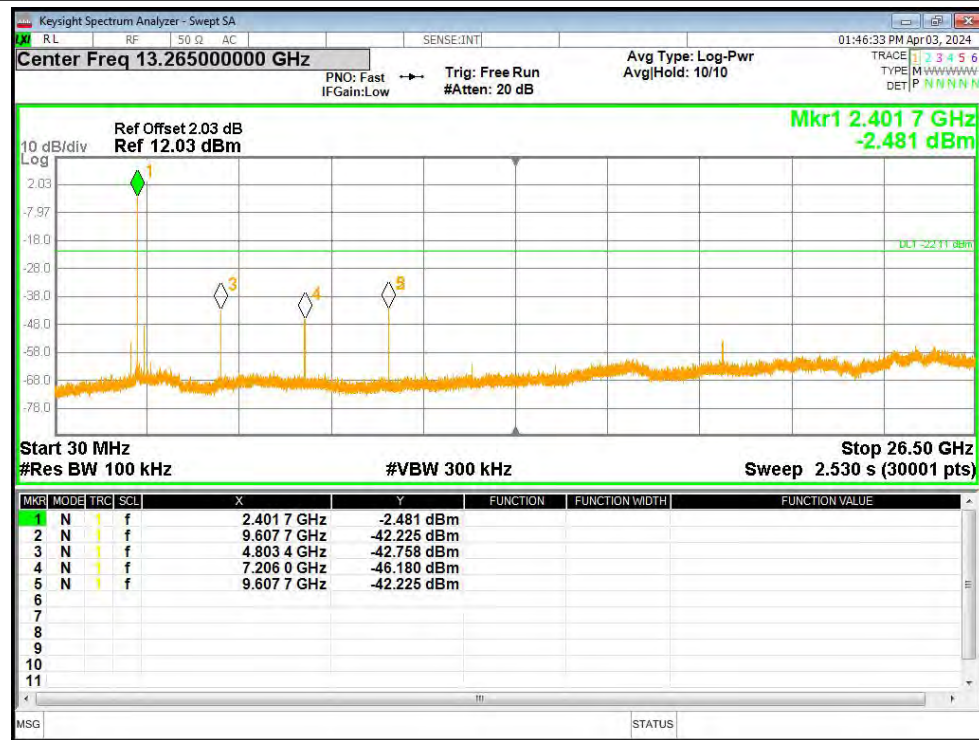
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-40.11	-20	Pass
NVNT	1-DH5	2441	Ant1	-38.85	-20	Pass
NVNT	1-DH5	2480	Ant1	-34.93	-20	Pass
NVNT	2-DH5	2402	Ant1	-38.7	-20	Pass
NVNT	2-DH5	2441	Ant1	-38.2	-20	Pass
NVNT	2-DH5	2480	Ant1	-34.1	-20	Pass
NVNT	3-DH5	2402	Ant1	-40.39	-20	Pass
NVNT	3-DH5	2441	Ant1	-40.11	-20	Pass
NVNT	3-DH5	2480	Ant1	-42.98	-20	Pass

Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



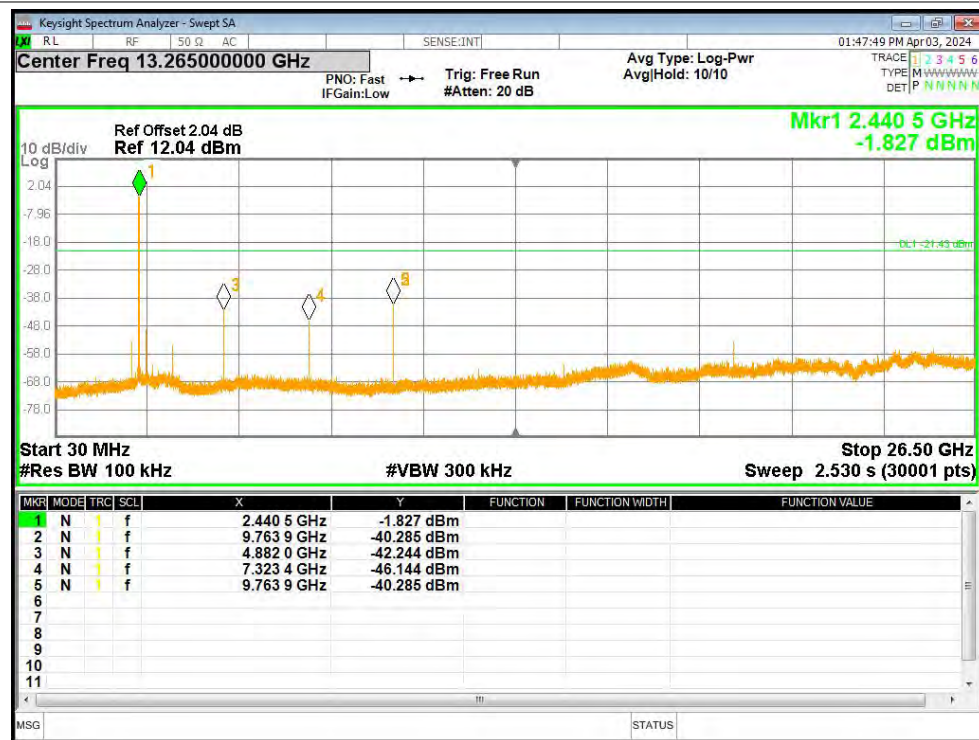
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



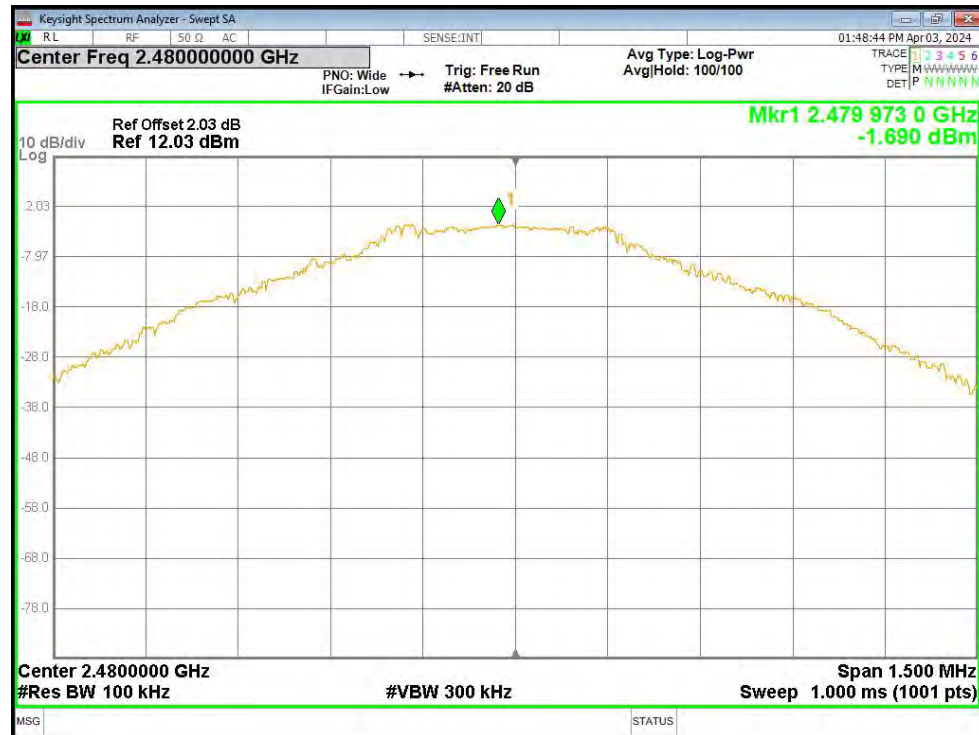
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



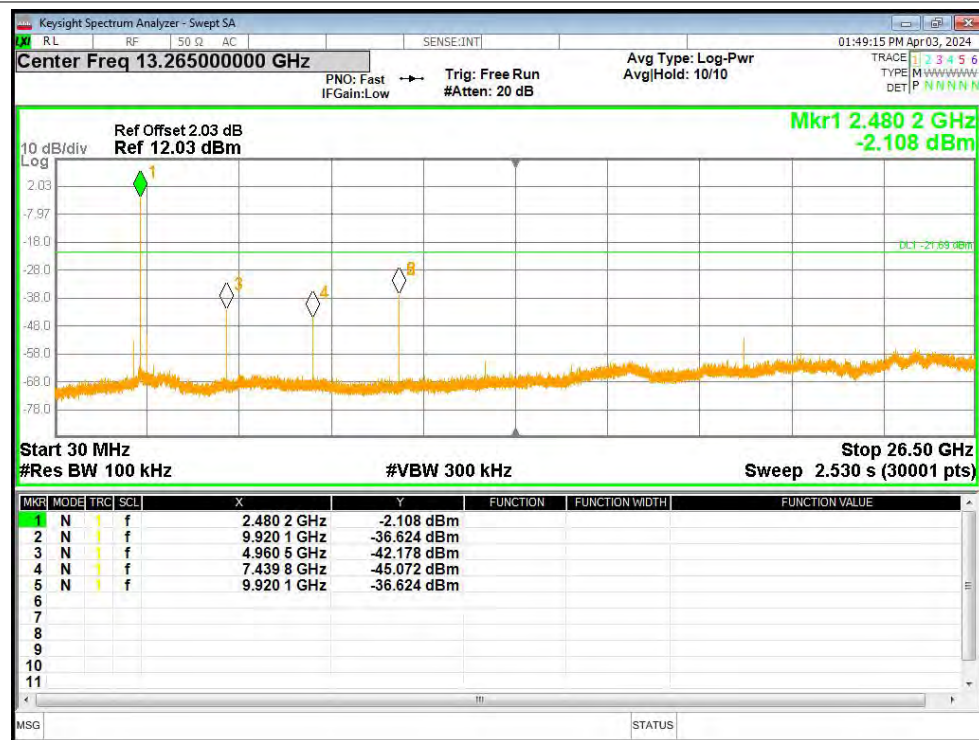
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



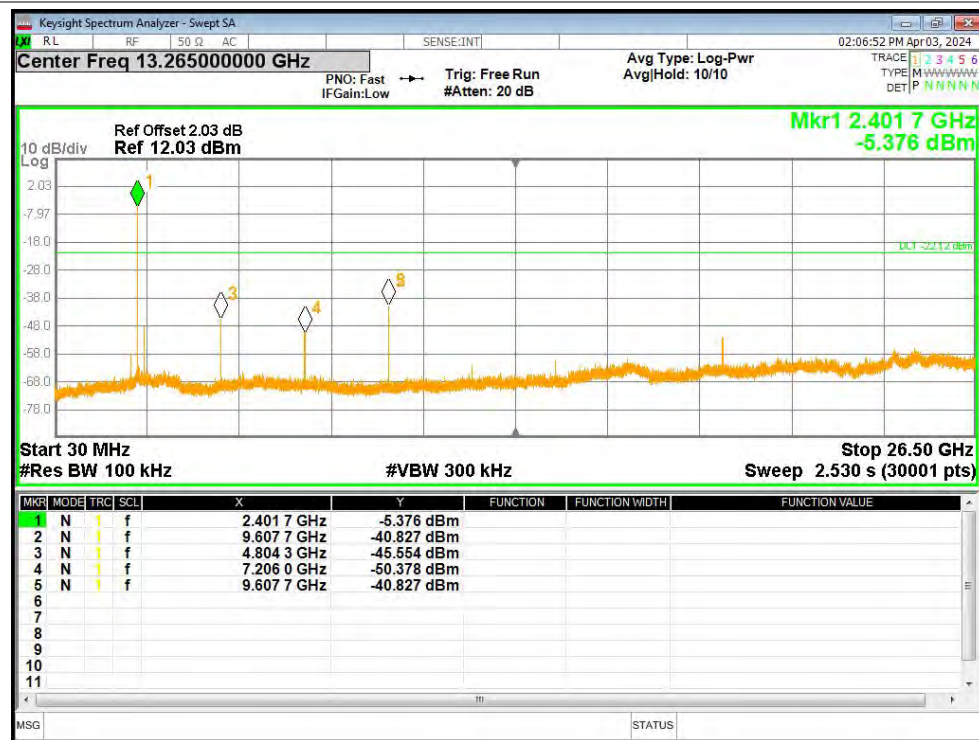
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



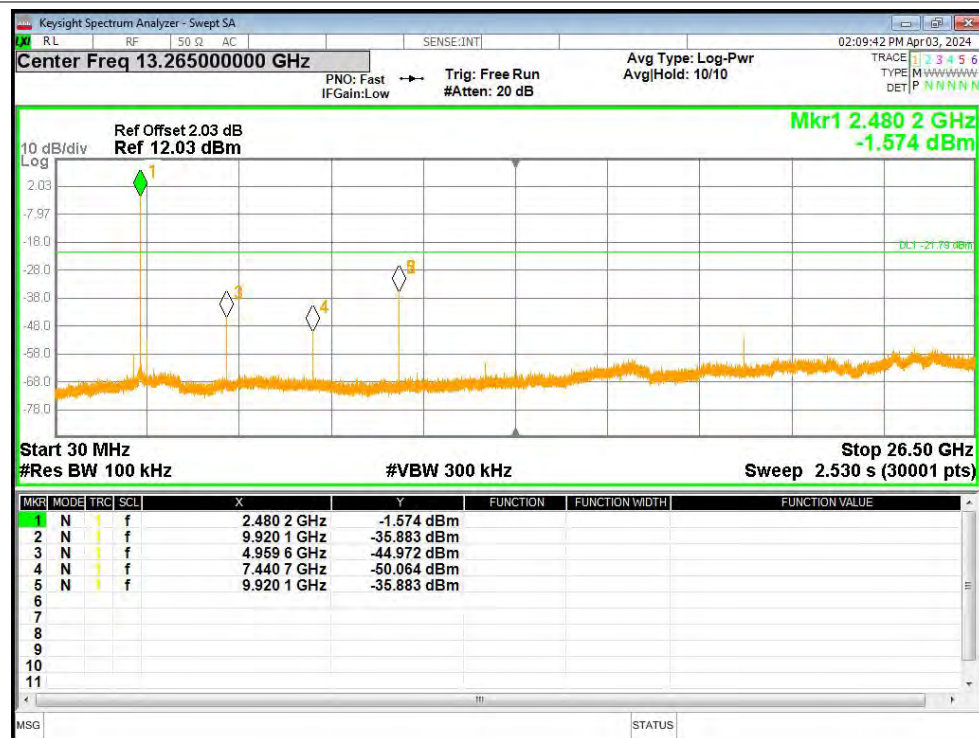
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



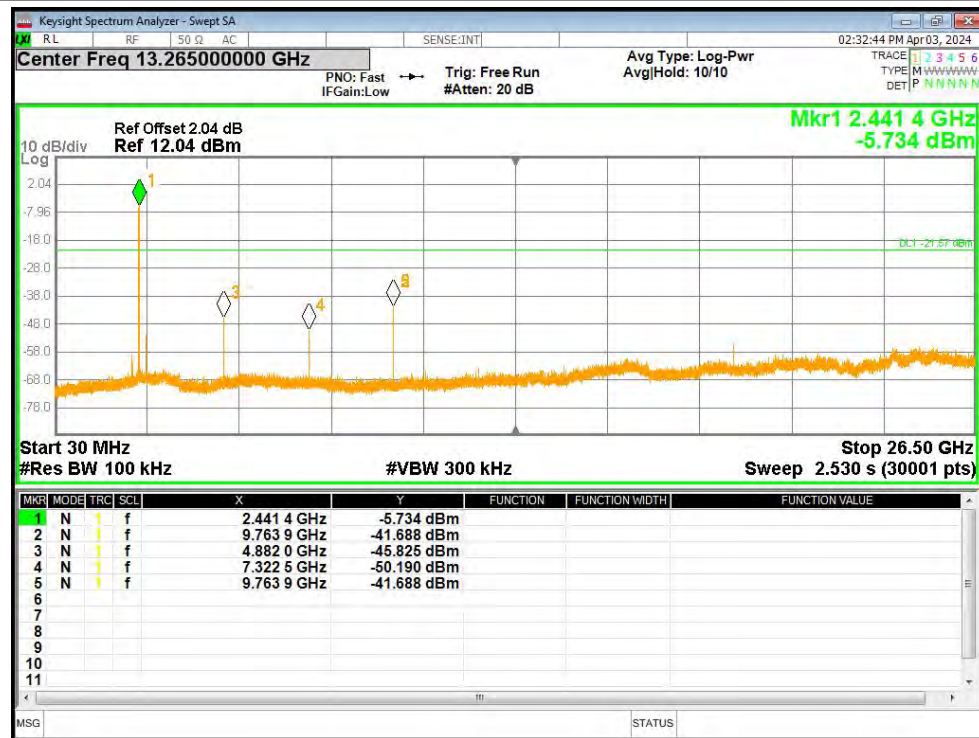
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission

