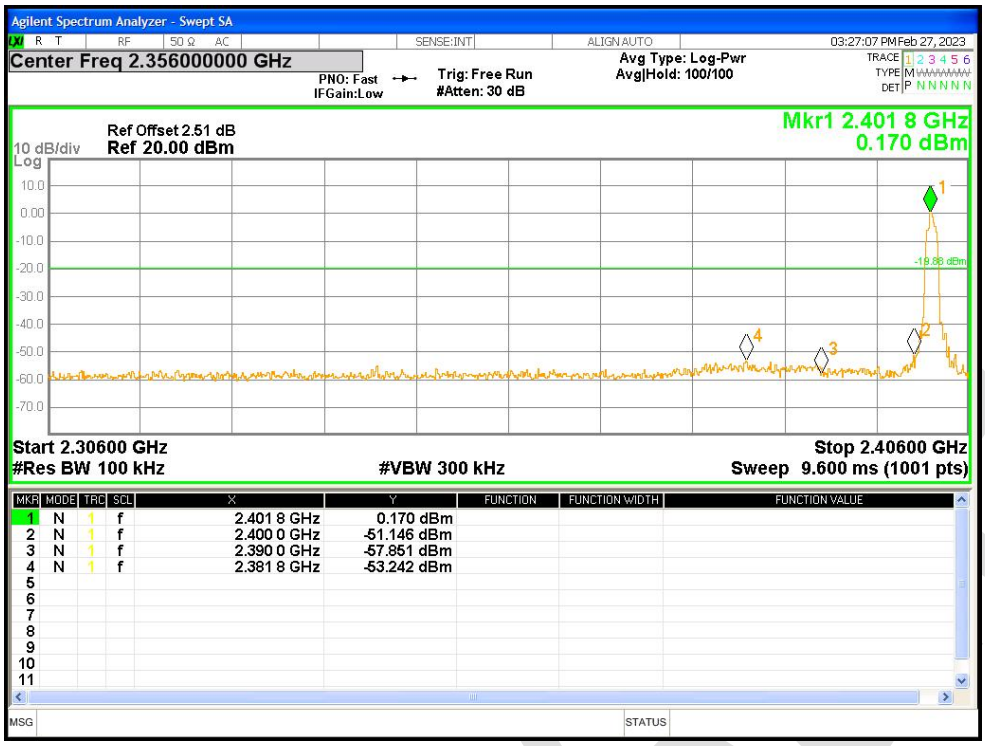
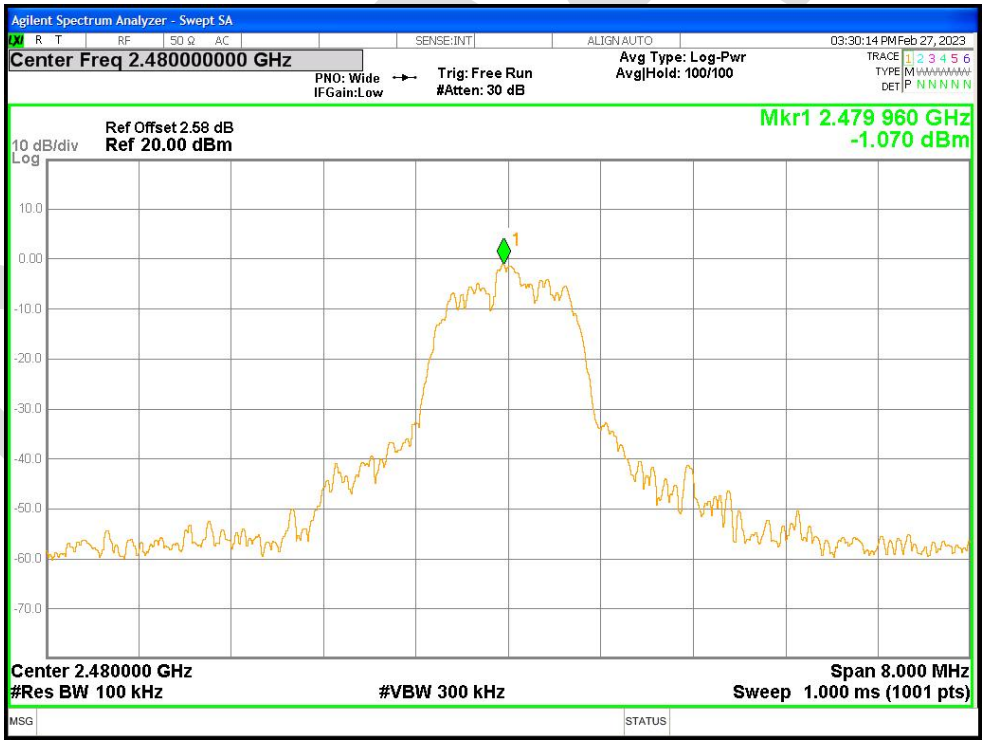
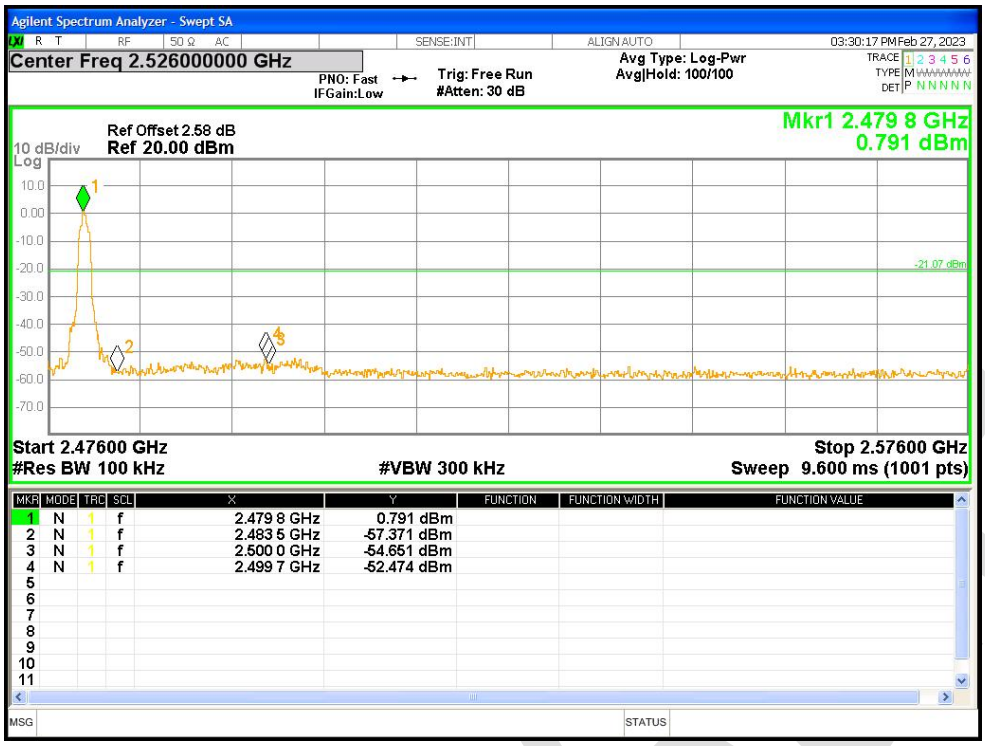


Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Ref



Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission

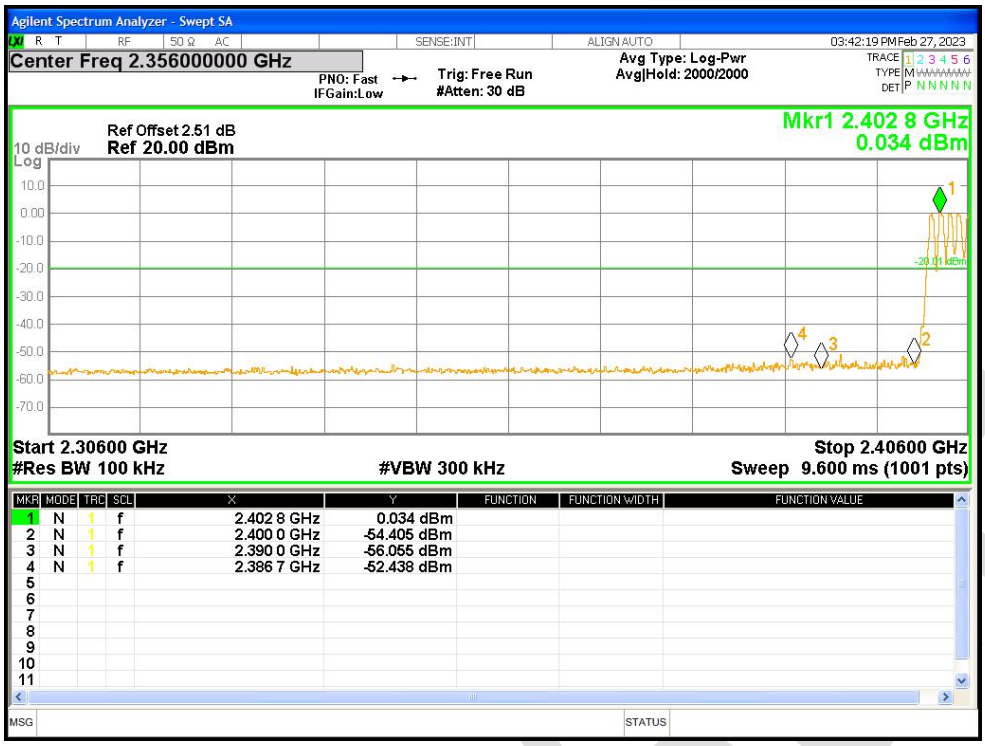

Agilent Spectrum Analyzer - Swept SA
Center Freq 2.526000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
03:30:17 PM Feb 27, 2023
Ref Offset 2.58 dB
10 dB/div
Ref 20.00 dBm
Mkr1 2.479 8 GHz
0.791 dBm
-21.07 dBm
Start 2.47600 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.57600 GHz
Sweep 9.600 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.479 8 GHz 0.791 dBm
2 N 1 f 2.483 5 GHz -57.371 dBm
3 N 1 f 2.500 0 GHz -54.651 dBm
4 N 1 f 2.499 7 GHz -52.474 dBm
MSG
STATUS

21.5 BAND EDGE(HOPPING)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-52.42	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-52.13	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-53.25	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-52.81	-20	Pass

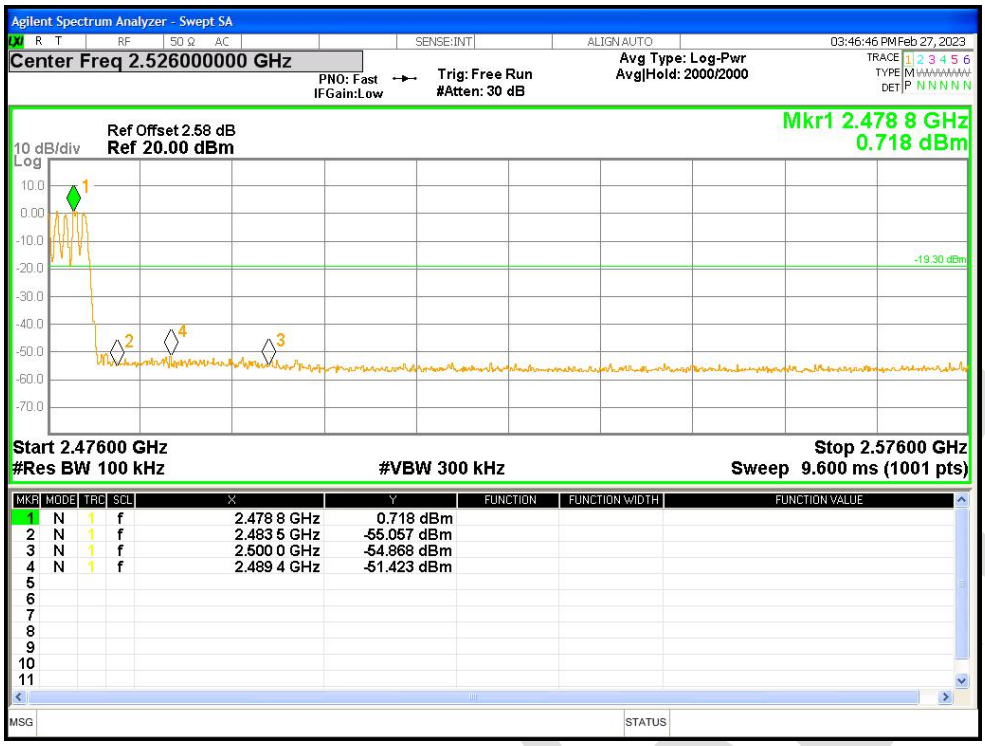
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Ref

Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission

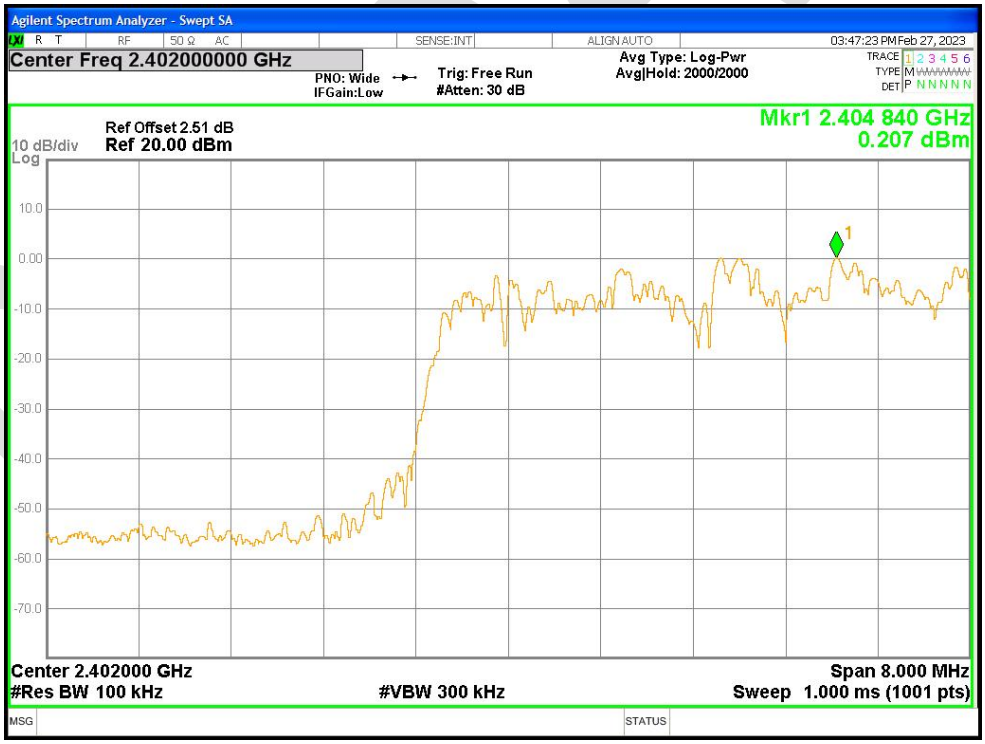


Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Ref

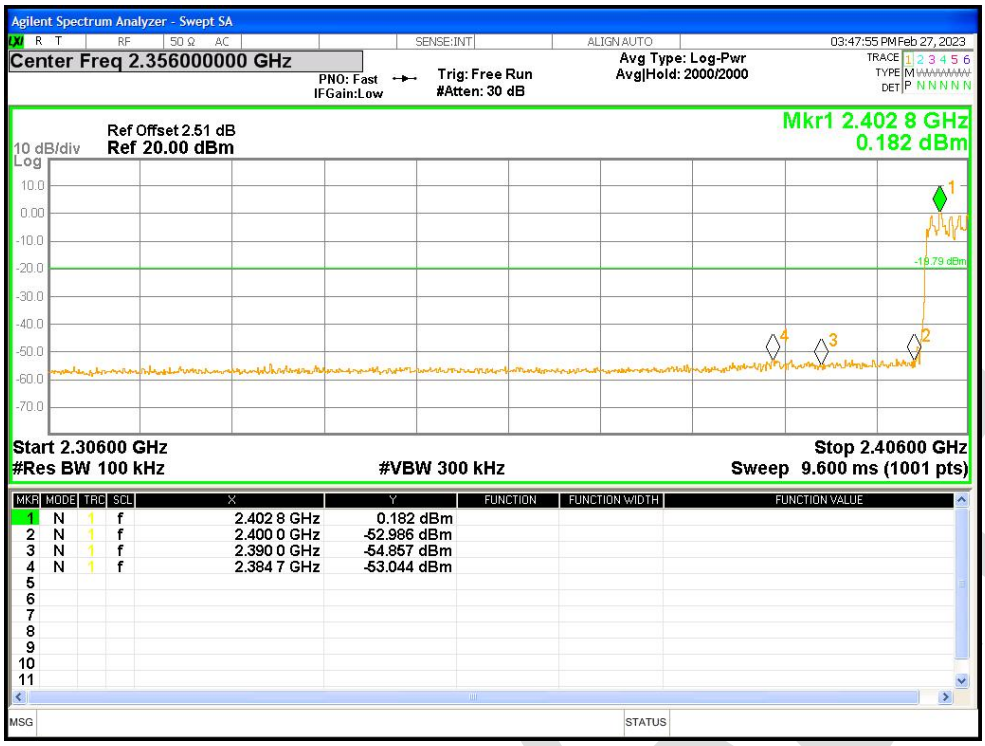
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission



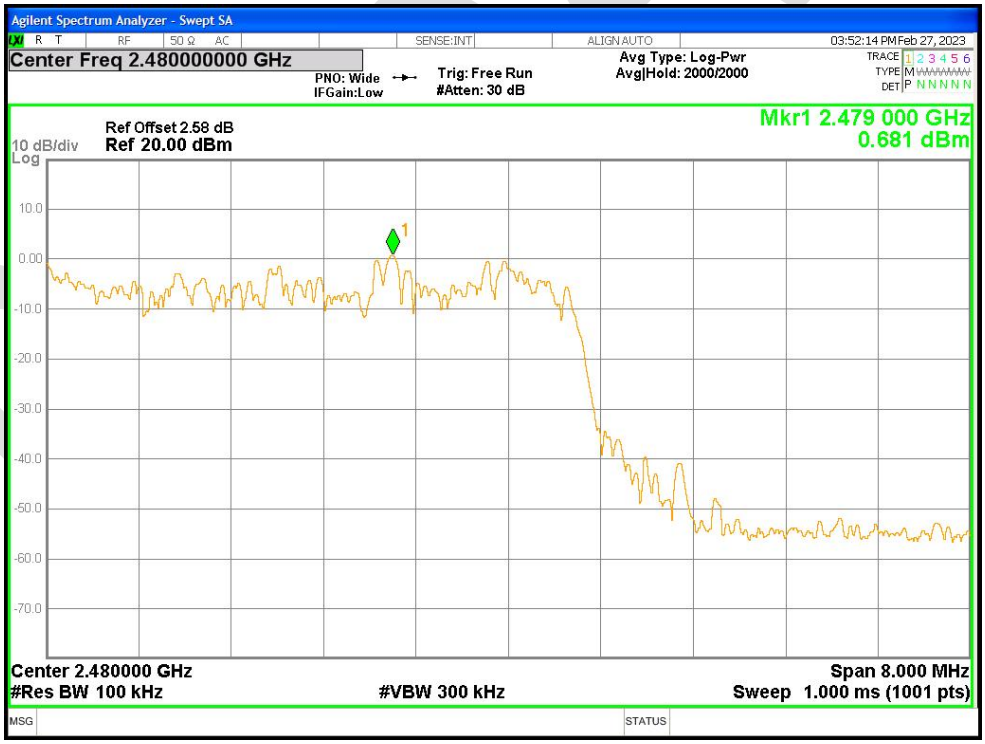
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Ref



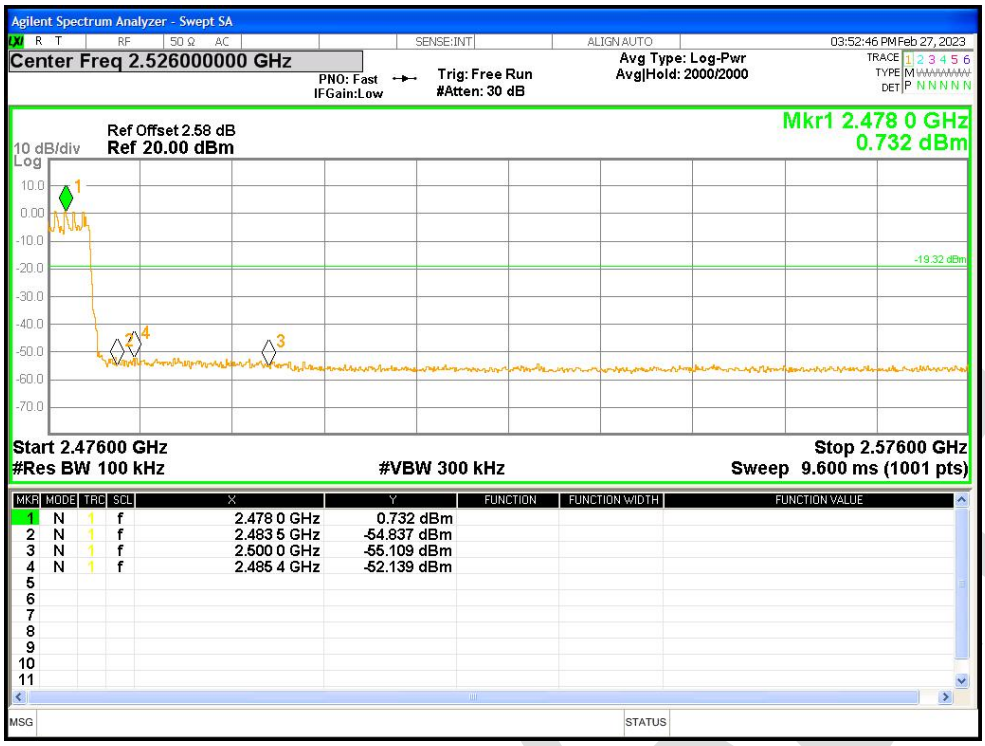
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Ref



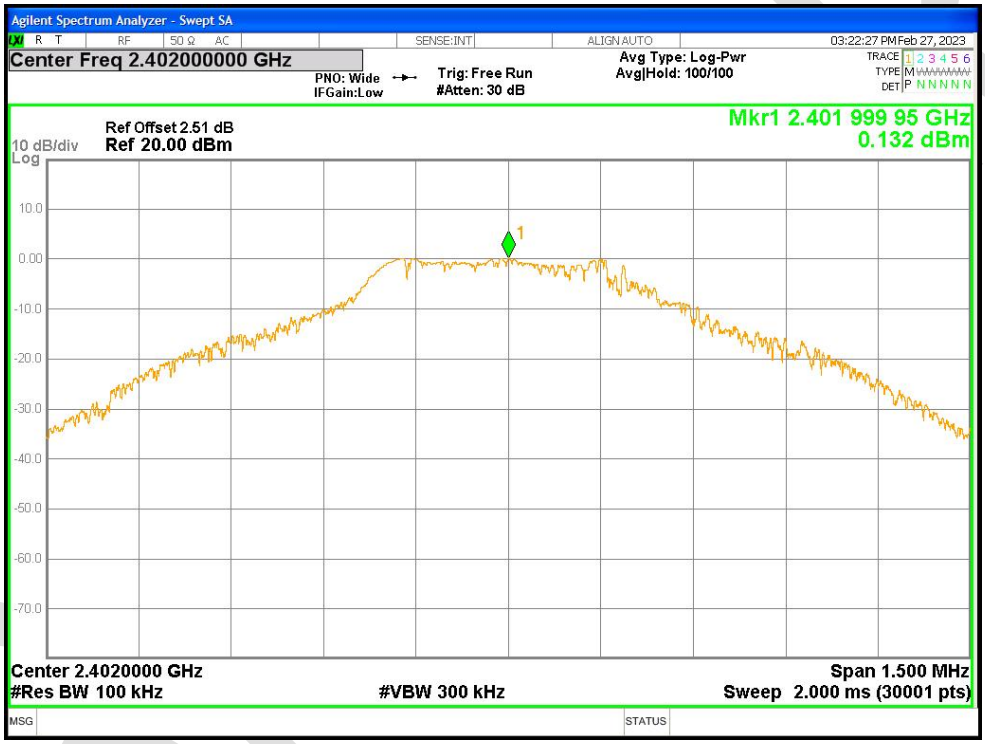
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Emission


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.526000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 2000/2000
03:52:46 PM Feb 27, 2023
Ref Offset 2.58 dB
10 dB/div
Ref 20.00 dBm
Mkr1 2.478 0 GHz
0.732 dBm
-19.32 dBm
Start 2.47600 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.57600 GHz
Sweep 9.600 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.478 0 GHz 0.732 dBm
2 N 1 f 2.483 5 GHz -54.837 dBm
3 N 1 f 2.500 0 GHz -55.109 dBm
4 N 1 f 2.485 4 GHz -52.139 dBm
MSG
STATUS

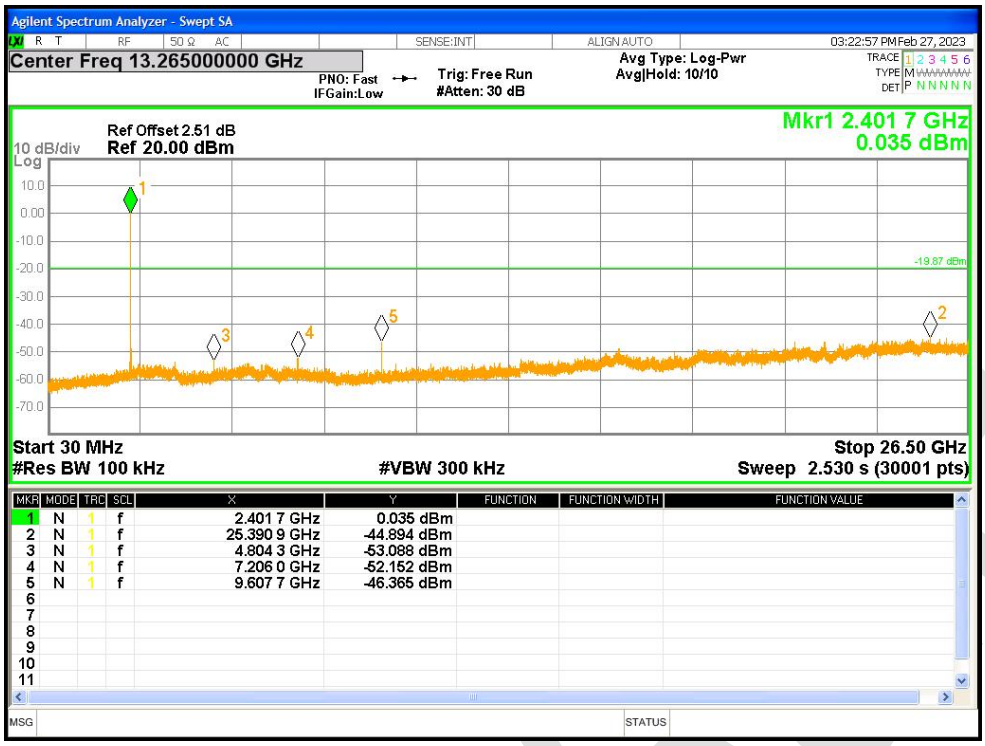
21.6 CONDUCTED RF SPURIOUS EMISSION

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-45.02	-20	Pass
NVNT	1-DH1	2441	Ant1	-44.6	-20	Pass
NVNT	1-DH1	2480	Ant1	-45.49	-20	Pass
NVNT	2-DH1	2402	Ant1	-44.98	-20	Pass
NVNT	2-DH1	2441	Ant1	-45.51	-20	Pass
NVNT	2-DH1	2480	Ant1	-45.42	-20	Pass

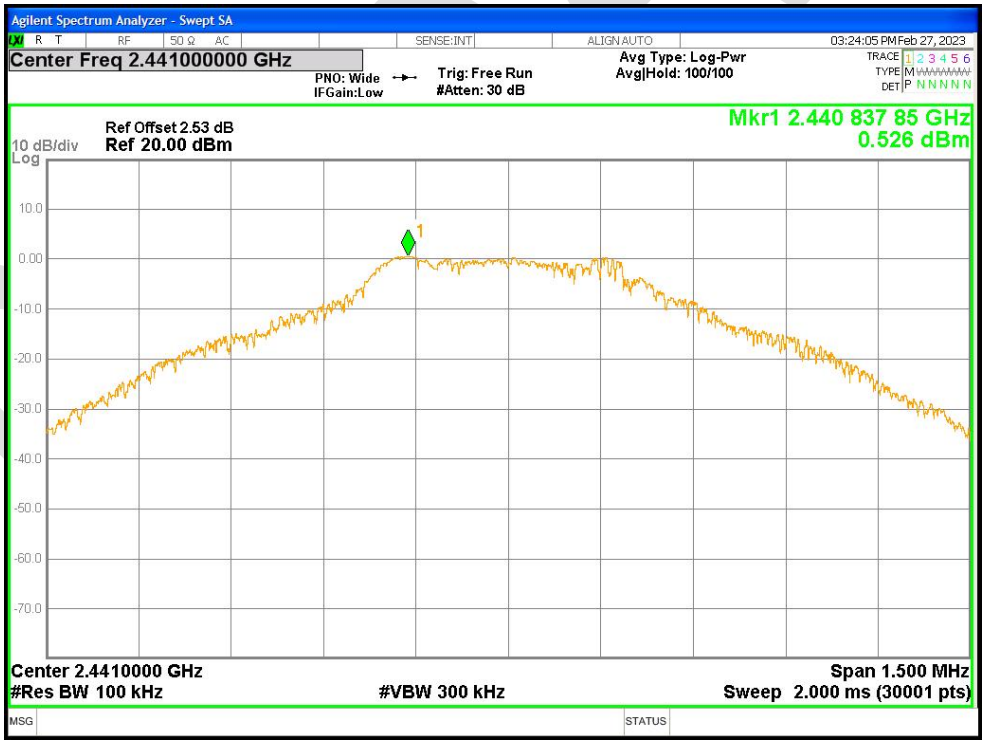
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



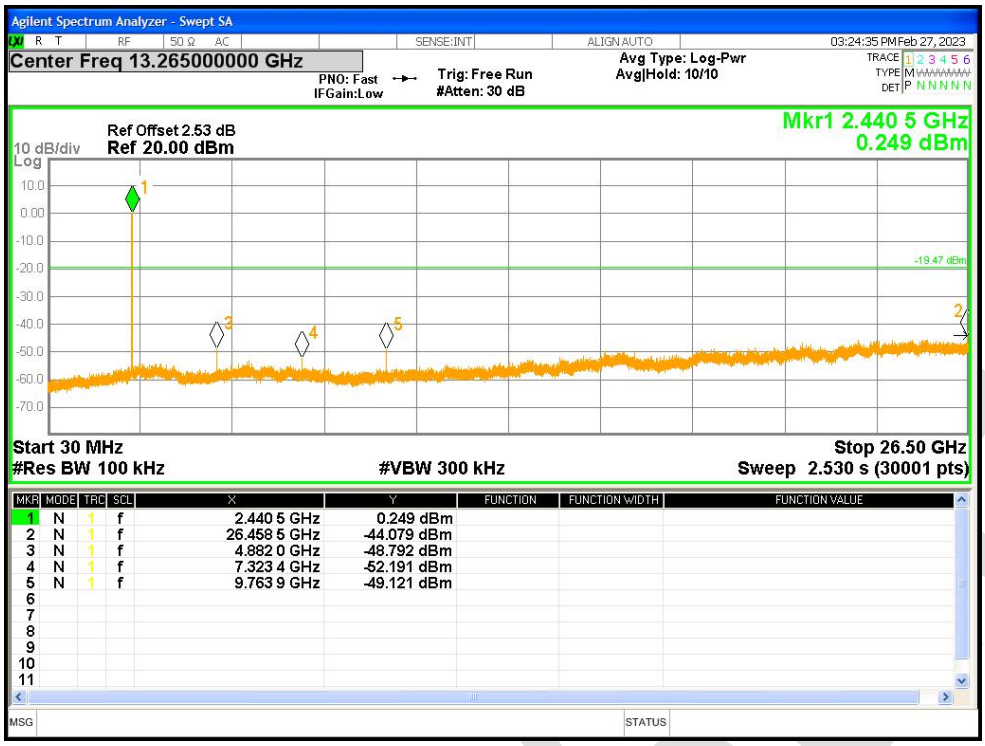
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



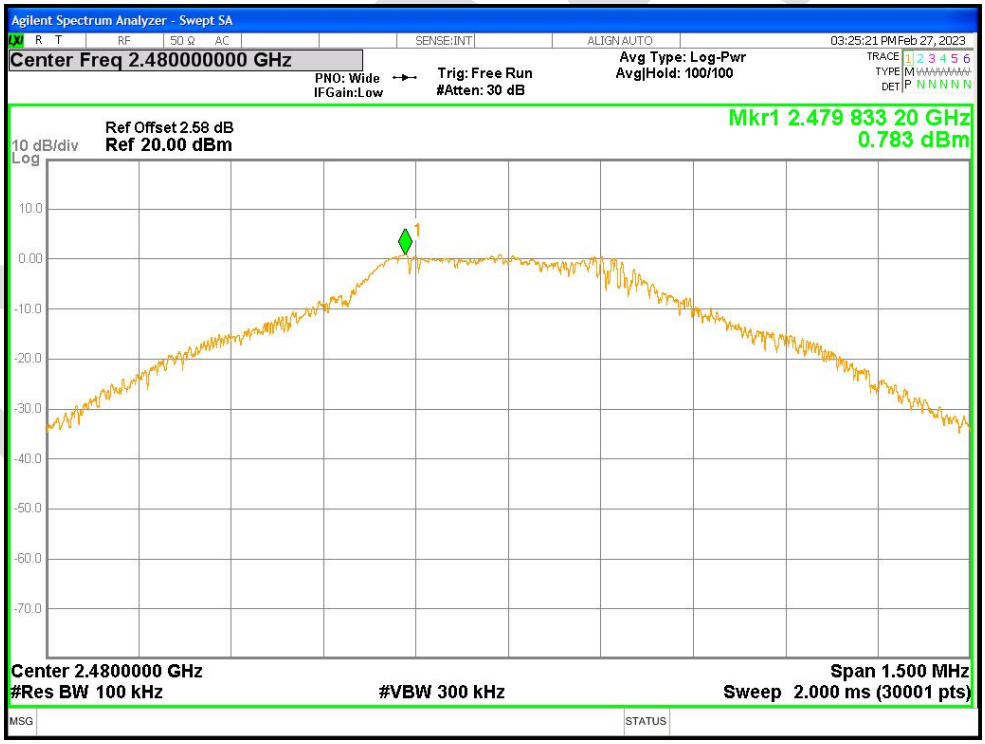
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



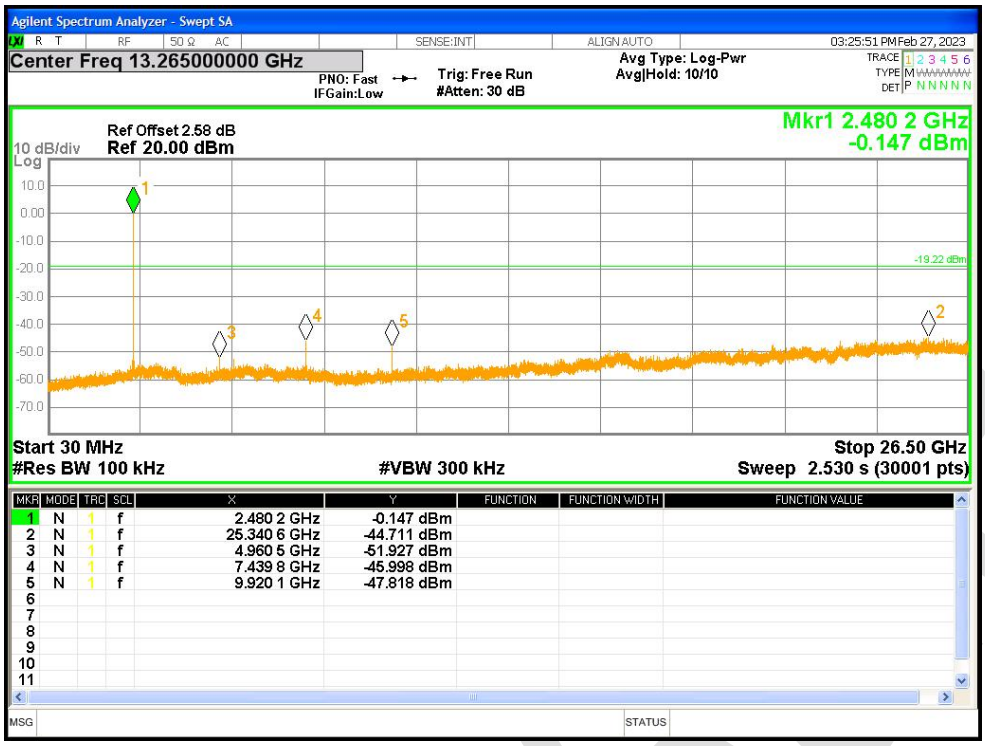
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



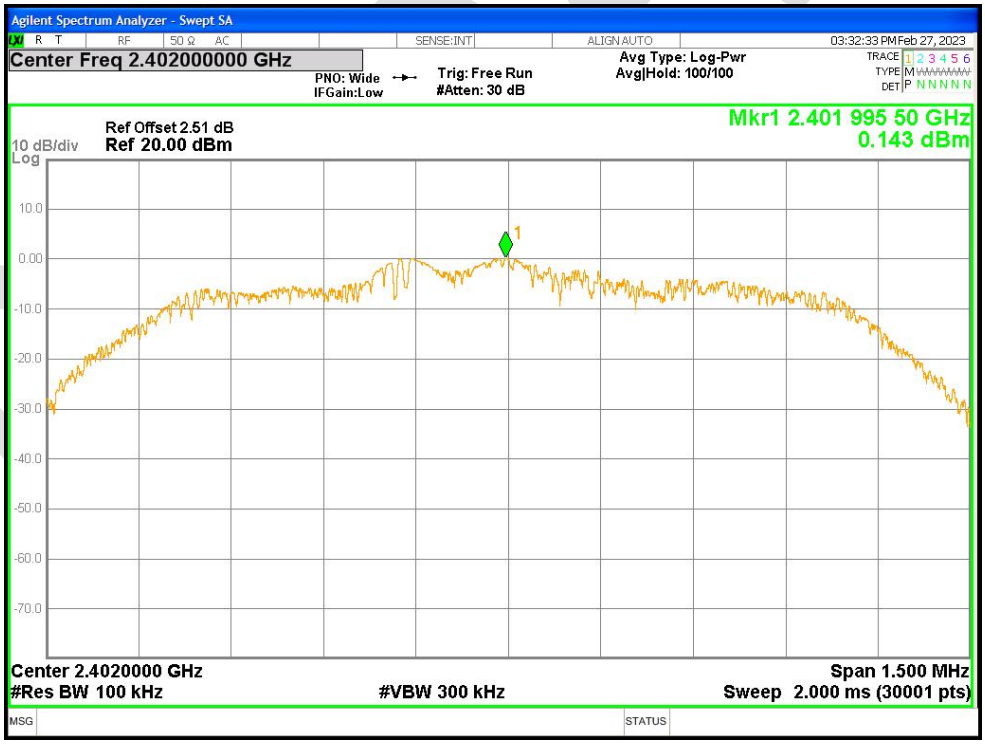
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



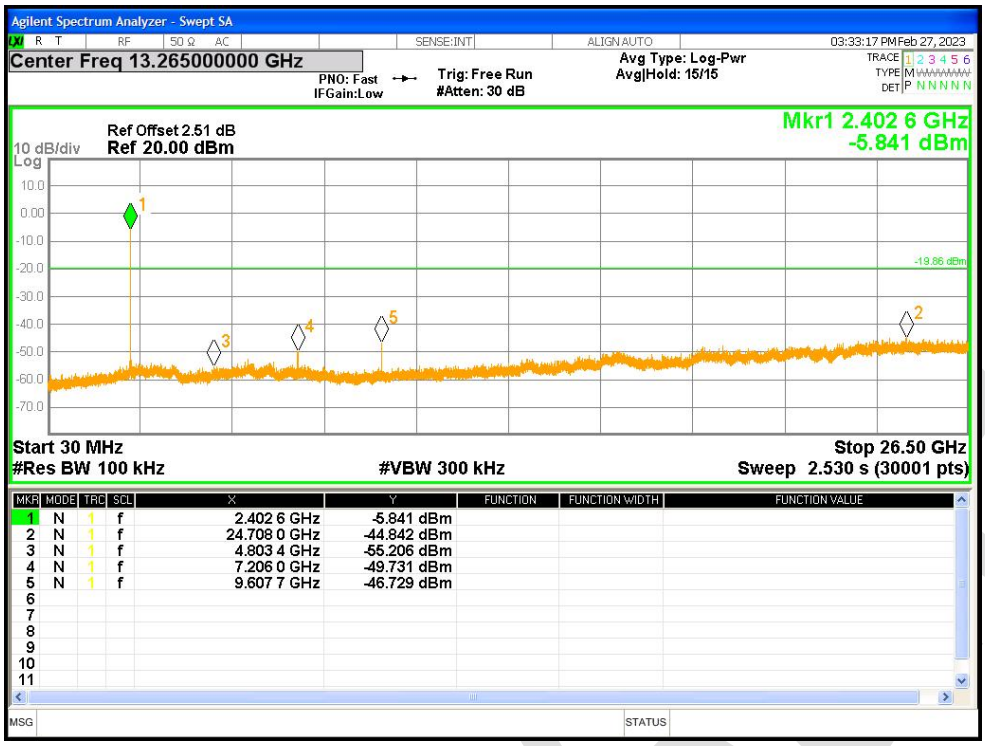
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



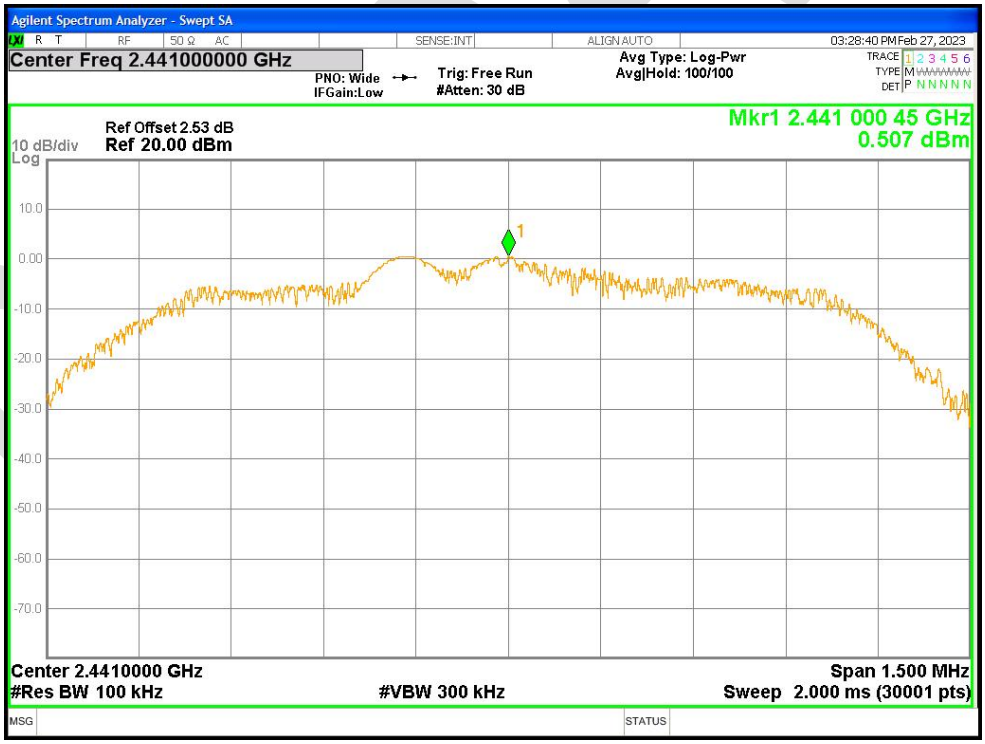
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



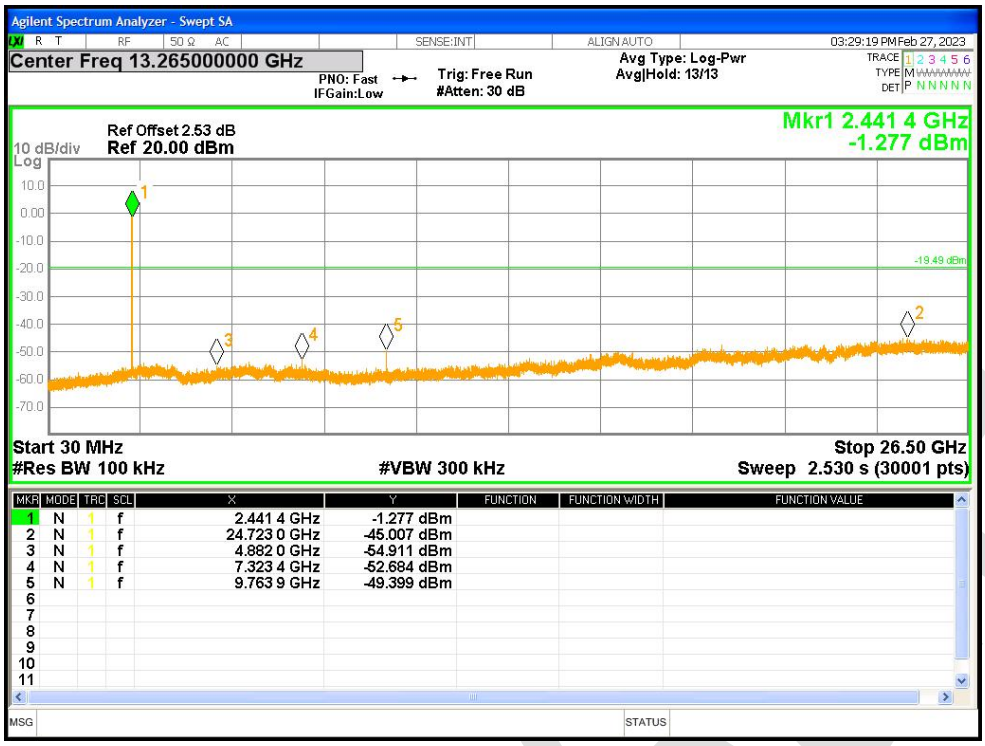
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



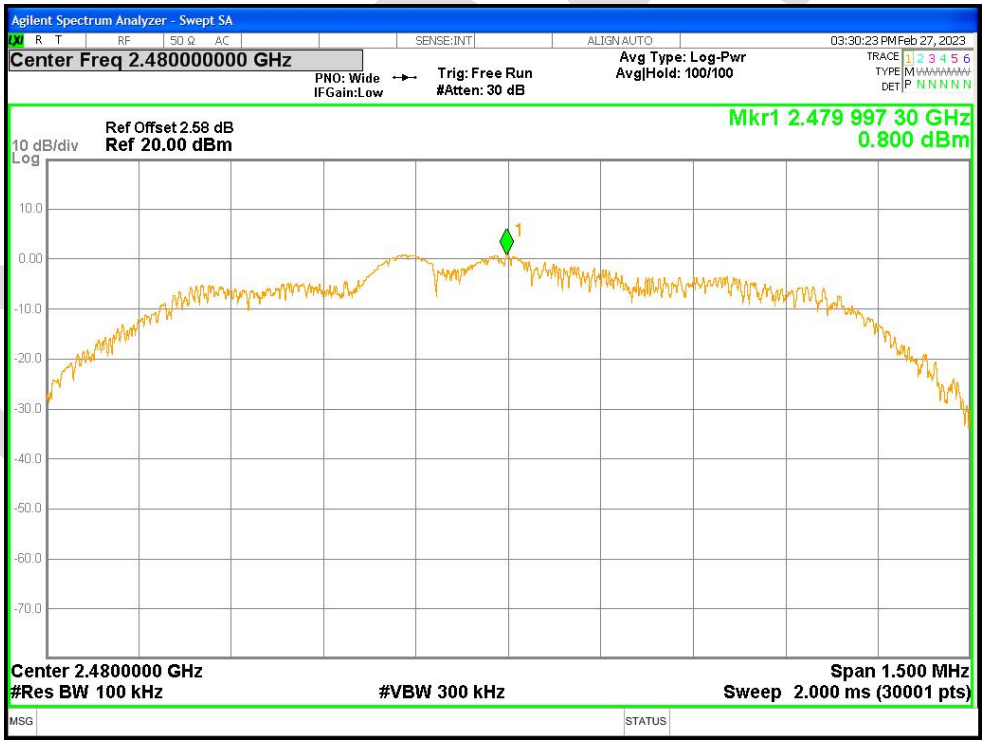
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



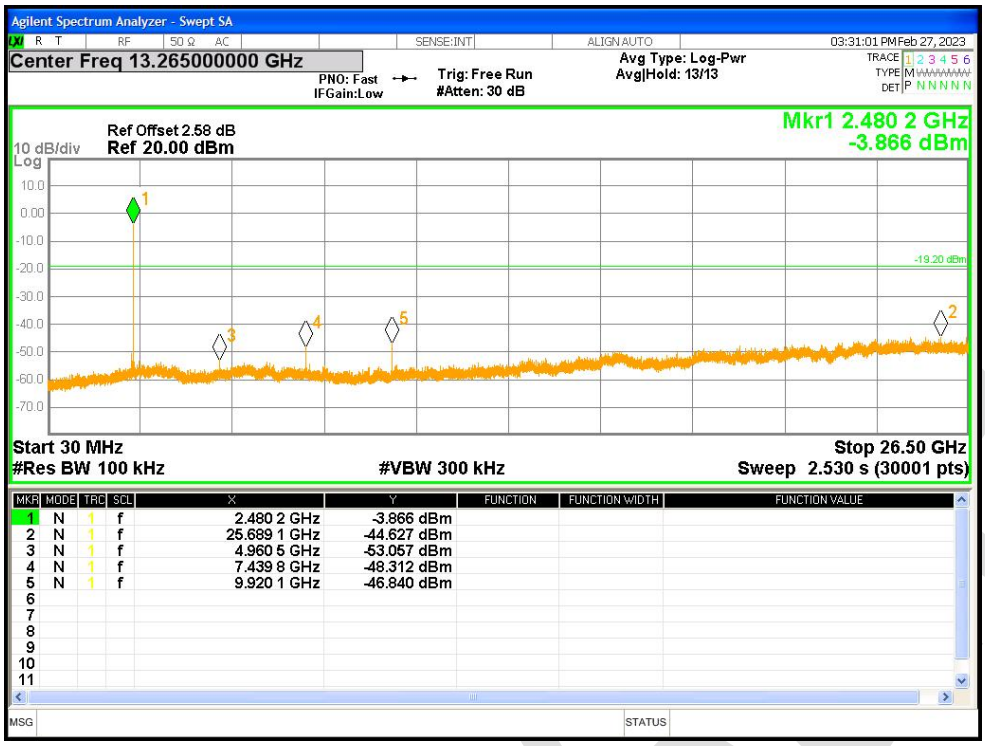
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Ref



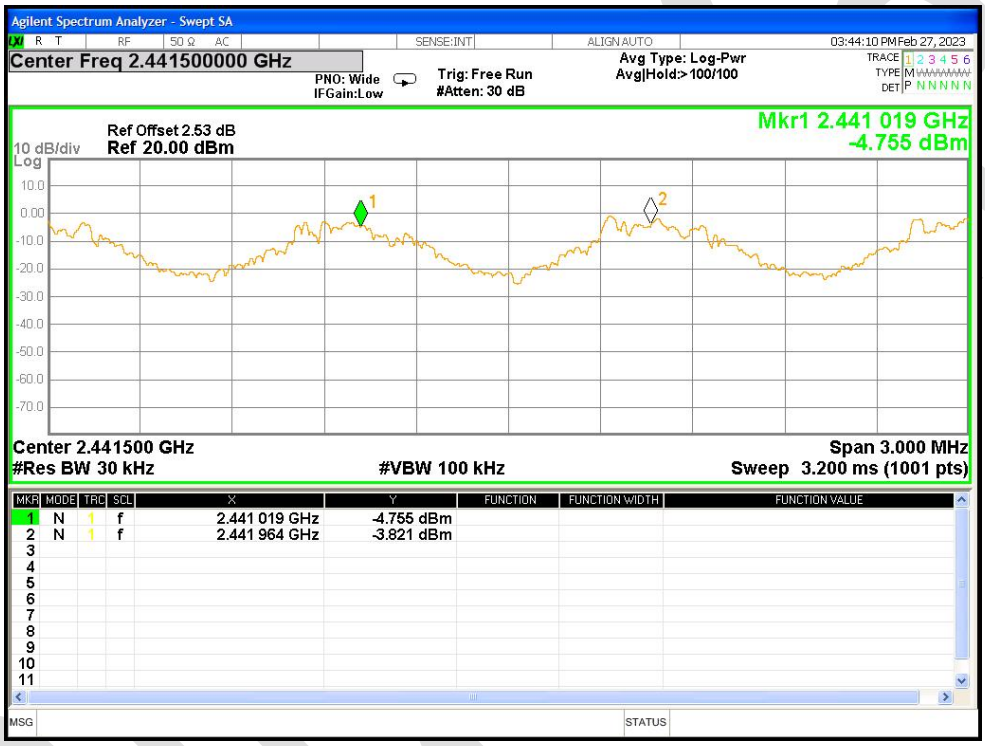
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Emission


Agilent Spectrum Analyzer - Swept SA
Center Freq 13.265000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 13/13
03:31:01 PM Feb 27, 2023
Ref Offset 2.58 dB
10 dB/div
Ref 20.00 dBm
Log
Mkr1 2.480 2 GHz
-3.866 dBm
-19.20 dBm
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 26.50 GHz
Sweep 2.530 s (30001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.480 2 GHz -3.866 dBm
2 N 1 f 25.689 1 GHz -44.627 dBm
3 N 1 f 4.960 5 GHz -53.057 dBm
4 N 1 f 7.439 8 GHz -48.312 dBm
5 N 1 f 9.920 1 GHz -46.840 dBm
MSG
STATUS

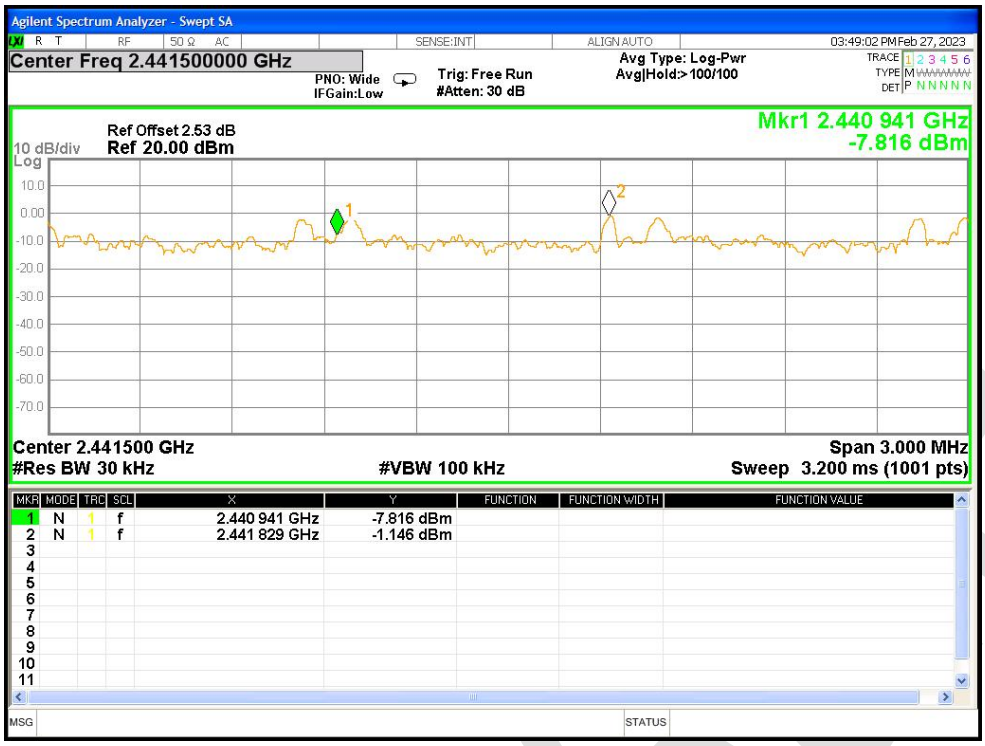
21.7 CARRIER FREQUENCIES SEPARATION

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2441.0185	2441.9635	0.945	0.831	Pass
NVNT	2-DH1	Ant1	2440.9405	2441.8285	0.888	0.832	Pass

CFS NVNT 1-DH1 2441MHz Ant1



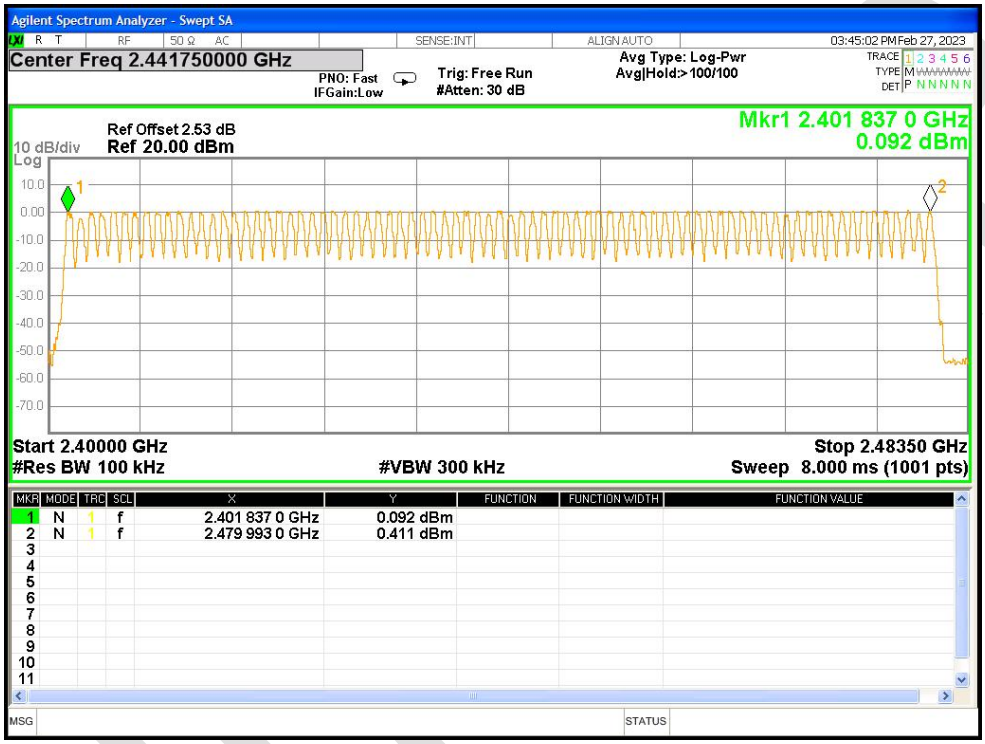
CFS NVNT 2-DH1 2441MHz Ant1


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.441500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
03:49:02 PM Feb 27, 2023
Ref Offset 2.53 dB
10 dB/div
Ref 20.00 dBm
Mkr1 2.440 941 GHz
-7.816 dBm
Center 2.441500 GHz
#Res BW 30 kHz
#VBW 100 kHz
Span 3.000 MHz
Sweep 3.200 ms (1001 pts)
1 N 1 f 2.440 941 GHz -7.816 dBm
2 N 1 f 2.441 829 GHz -1.146 dBm

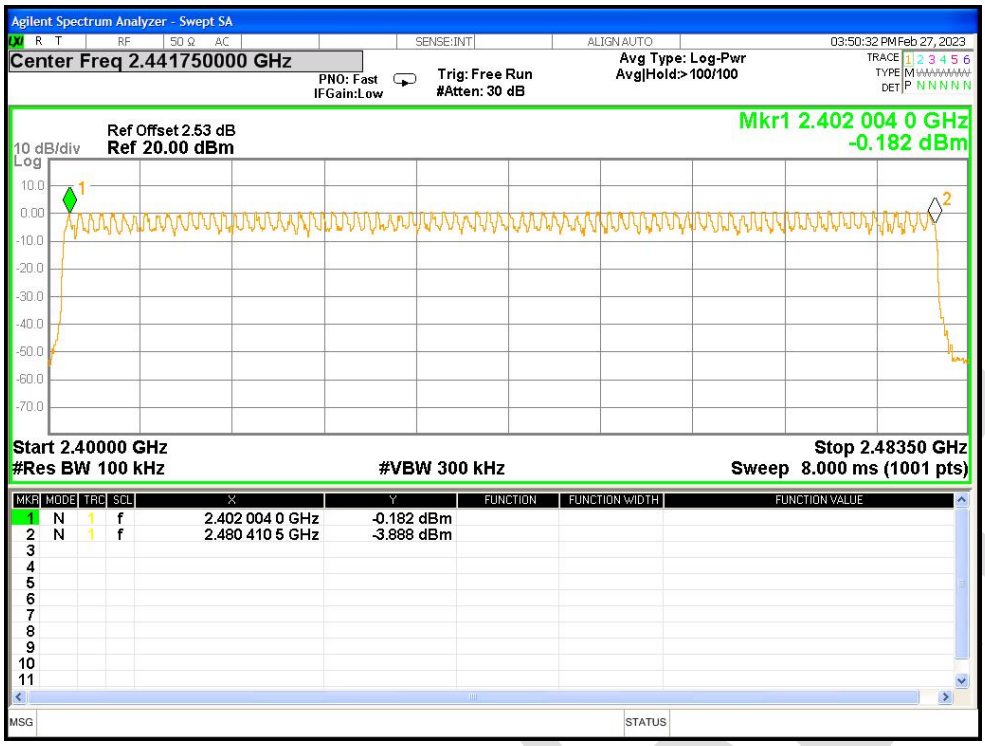
21.8 NUMBER OF HOPPING CHANNEL

Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass

Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.441750000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
03:50:32 PM Feb 27, 2023
Ref Offset 2.53 dB
10 dB/div
Ref 20.00 dBm
Log
Mkr1 2.402 004 0 GHz
-0.182 dBm
Start 2.40000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.48350 GHz
Sweep 8.000 ms (1001 pts)
1 N 1 f 2.402 004 0 GHz -0.182 dBm
2 N 1 f 2.480 410 5 GHz -3.888 dBm

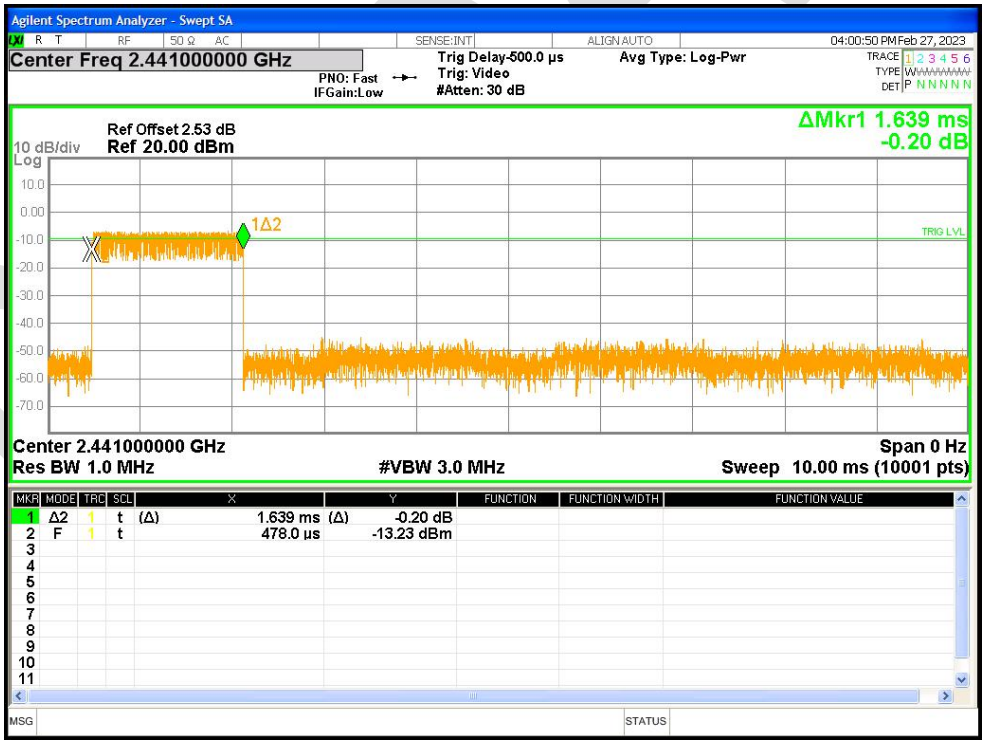
21.9 DWELL TIME

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	0.383	121.411	317	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.639	252.406	154	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.886	274.17	95	31600	400	Pass
NVNT	2-DH1	2441	Ant1	0.392	123.872	316	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.891	358.484	124	31600	400	Pass

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