Table of Contents

FCC_BT(Part15.247) Test Data

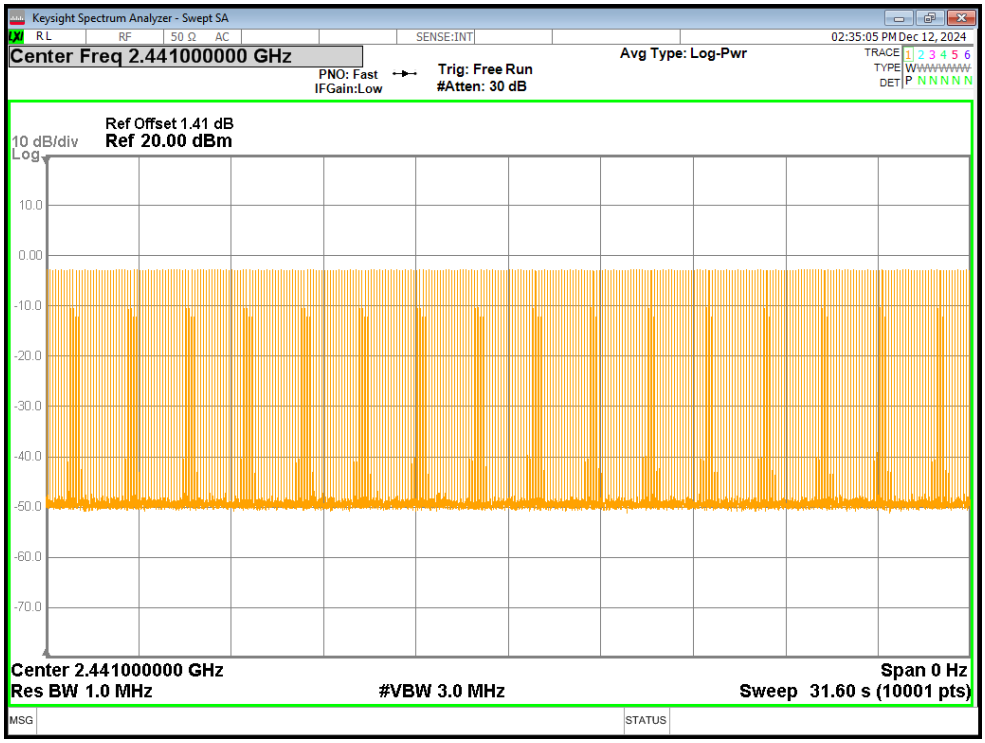
1.Dwell Time

Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
1-DH1	2441	0.354	112.926	319	31600	400	Pass
1-DH3	2441	1.62	259.2	160	31600	400	Pass
1-DH5	2441	2.867	303.902	106	31600	400	Pass
2-DH1	2441	0.365	116.435	319	31600	400	Pass
2-DH3	2441	1.63	260.8	160	31600	400	Pass
2-DH5	2441	2.877	307.839	107	31600	400	Pass
3-DH1	2441	0.362	115.478	319	31600	400	Pass
3-DH3	2441	1.63	259.17	159	31600	400	Pass
3-DH5	2441	2.882	308.374	107	31600	400	Pass

Test Graphs

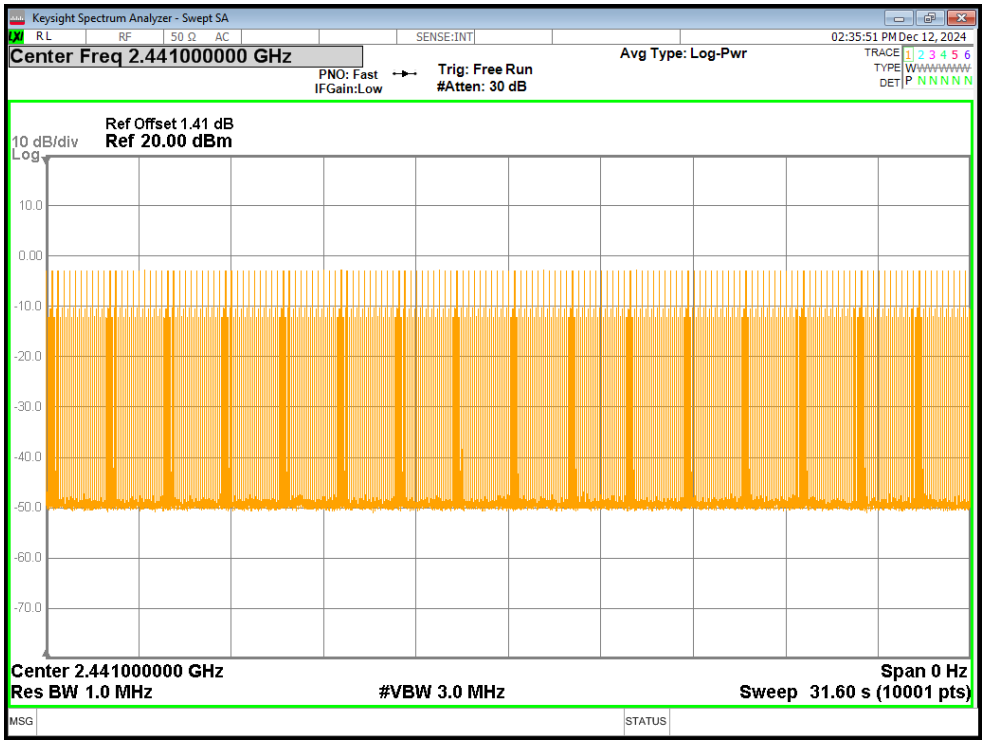
Dwell NVNT 1-DH1 2441MHz Ant1 One Burst

Dwell NVNT 1-DH1 2441MHz Ant1 Accumulated

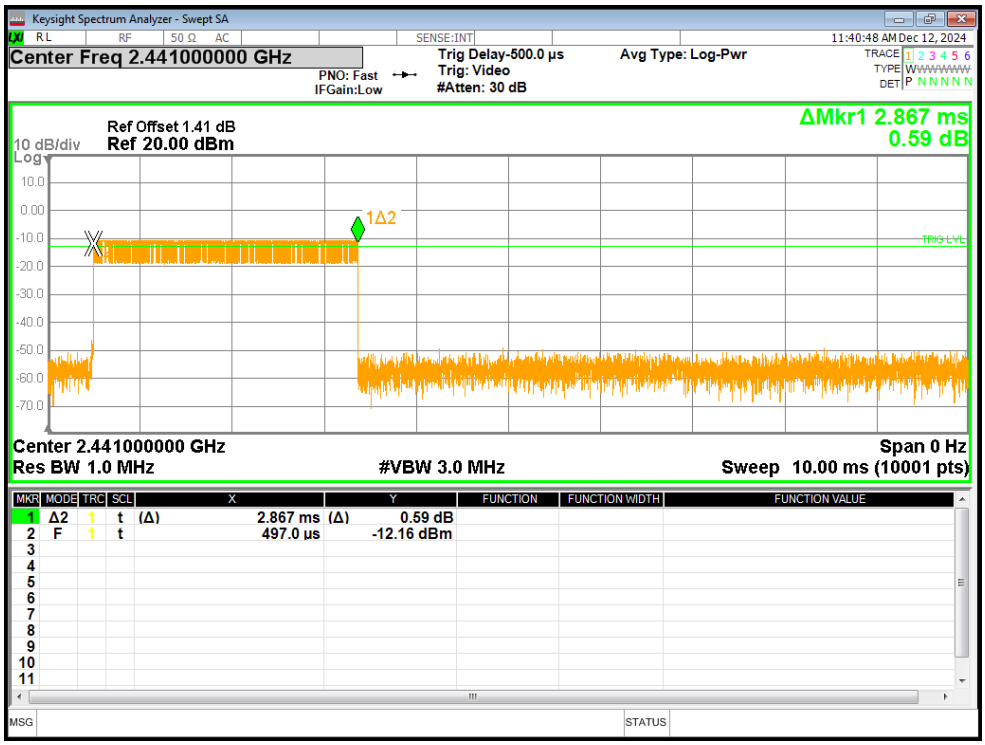


Dwell NVNT 1-DH3 2441MHz Ant1 One Burst

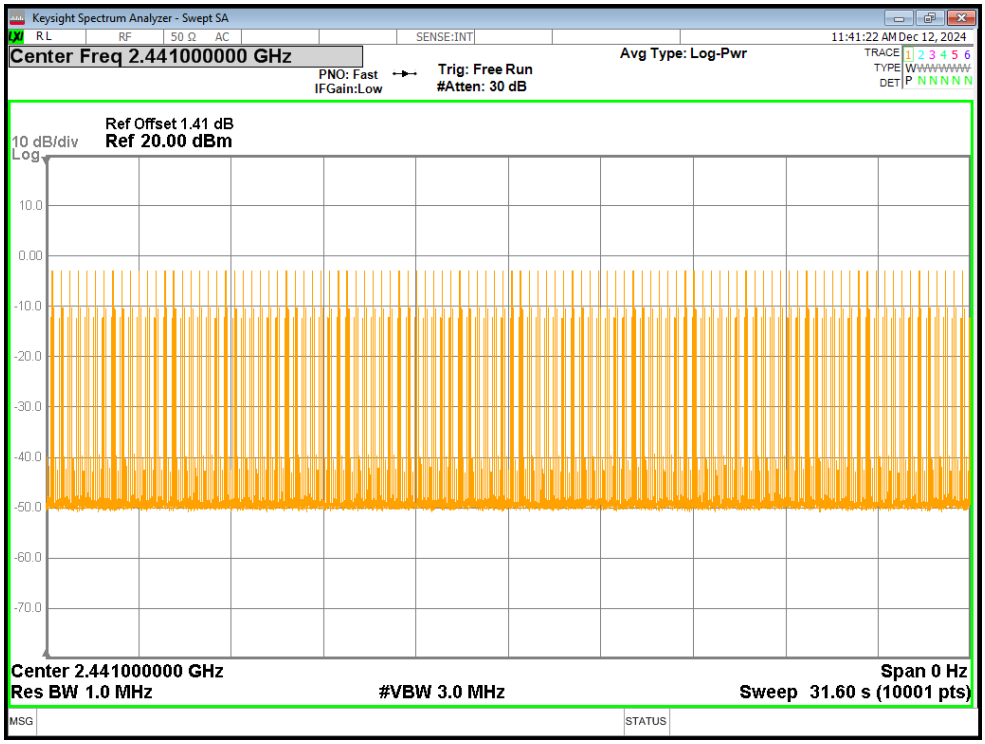
Dwell NVNT 1-DH3 2441MHz Ant1 Accumulated



Dwell NVNT 1-DH5 2441MHz Ant1 One Burst

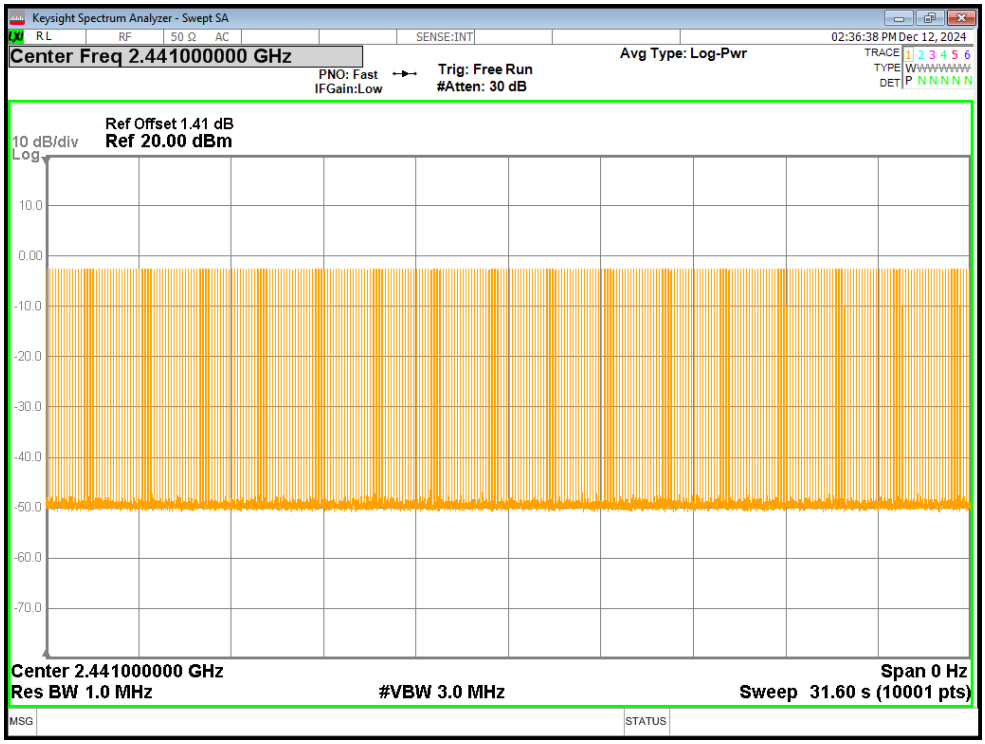


Dwell NVNT 1-DH5 2441MHz Ant1 Accumulated



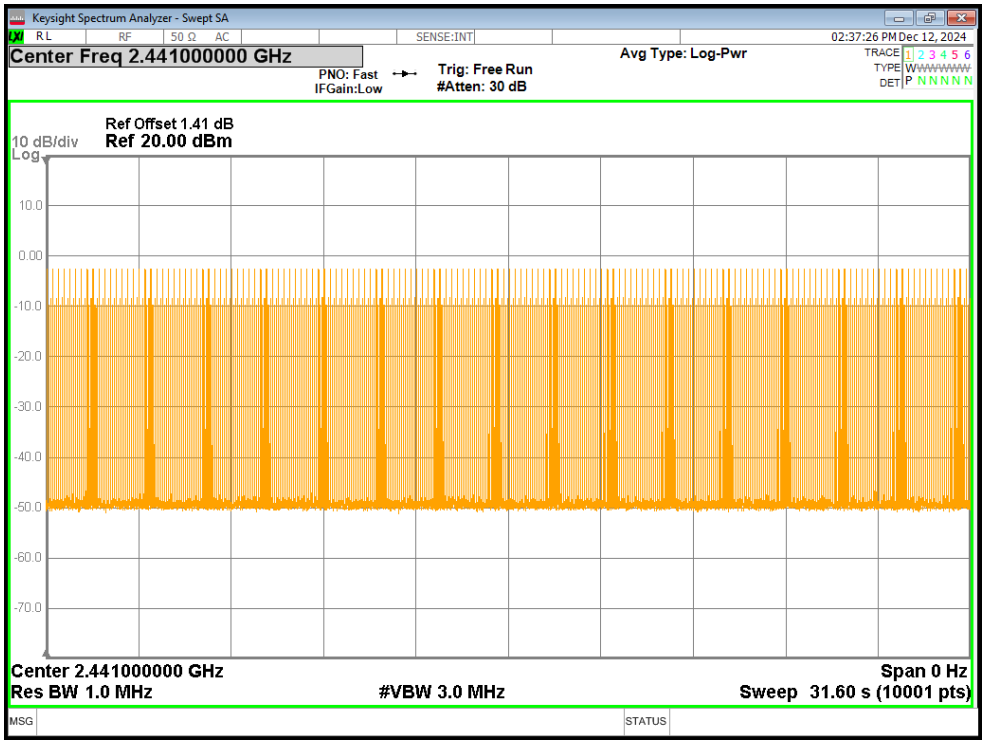
Dwell NVNT 2-DH1 2441MHz Ant1 One Burst

Dwell NVNT 2-DH1 2441MHz Ant1 Accumulated



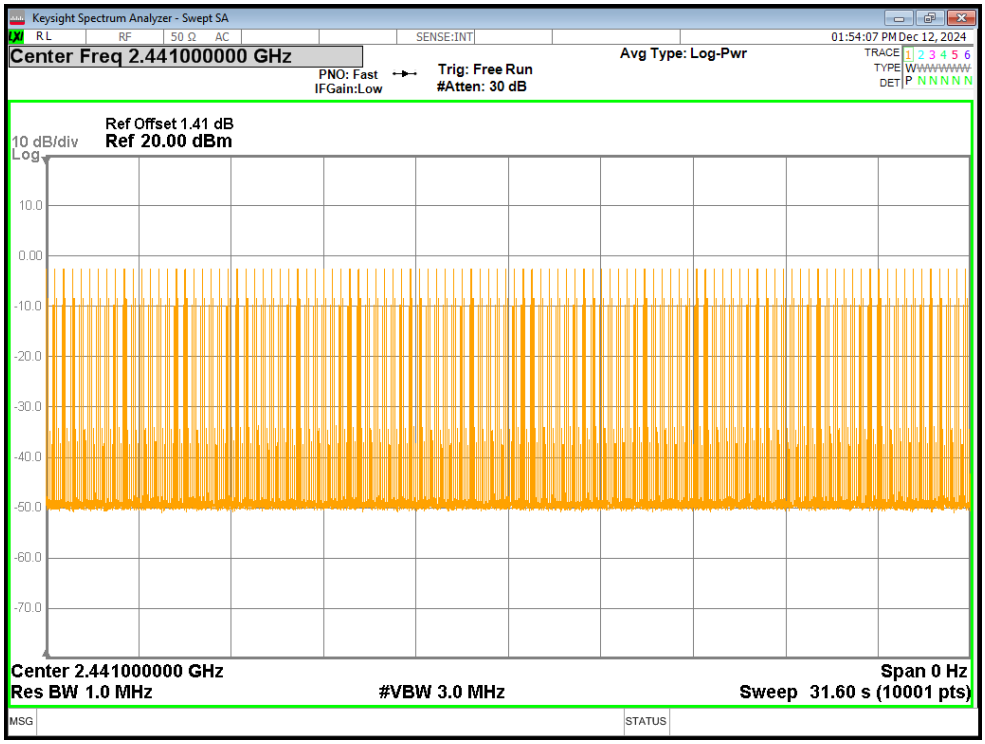
Dwell NVNT 2-DH3 2441MHz Ant1 One Burst

Dwell NVNT 2-DH3 2441MHz Ant1 Accumulated



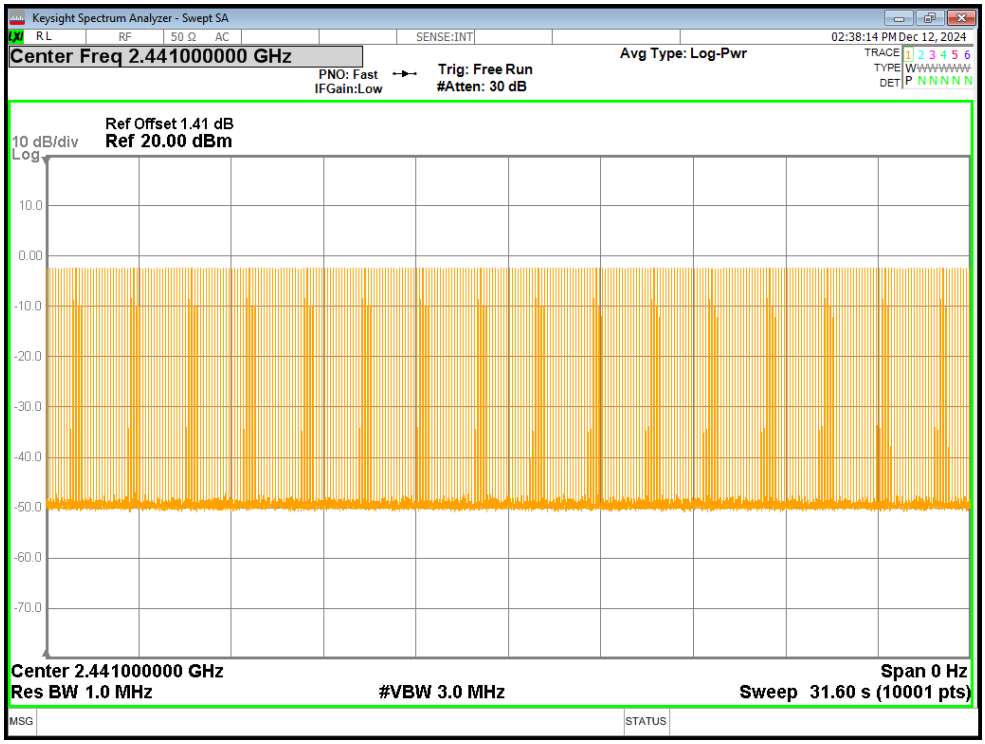
Dwell NVNT 2-DH5 2441MHz Ant1 One Burst

Dwell NVNT 2-DH5 2441MHz Ant1 Accumulated



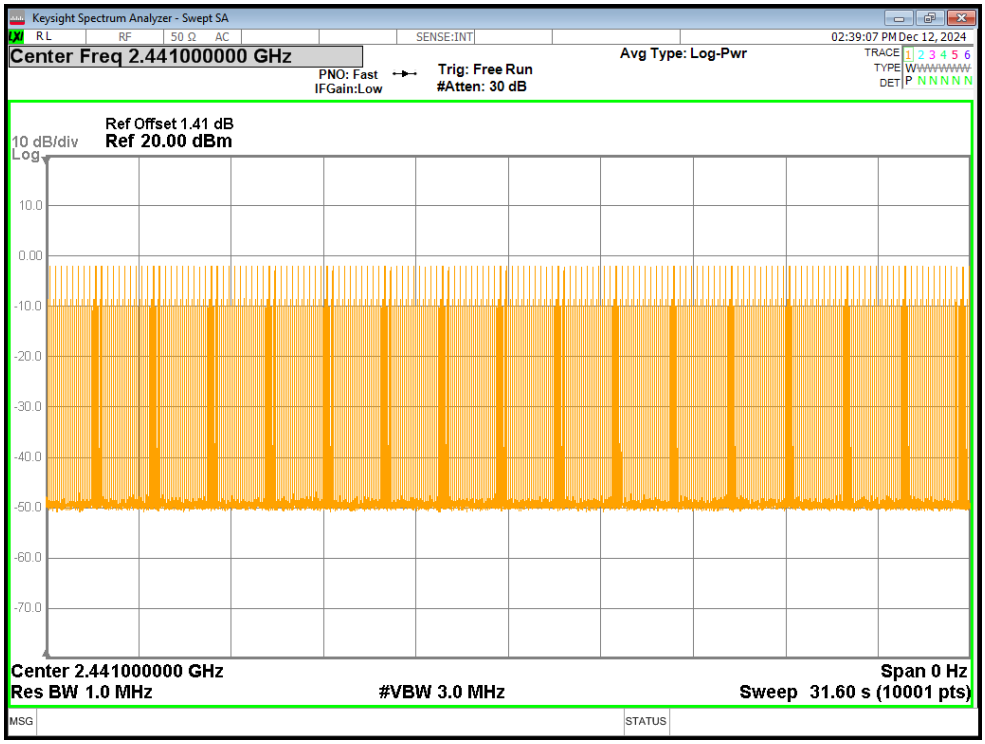
Dwell NVNT 3-DH1 2441MHz Ant1 One Burst

Dwell NVNT 3-DH1 2441MHz Ant1 Accumulated

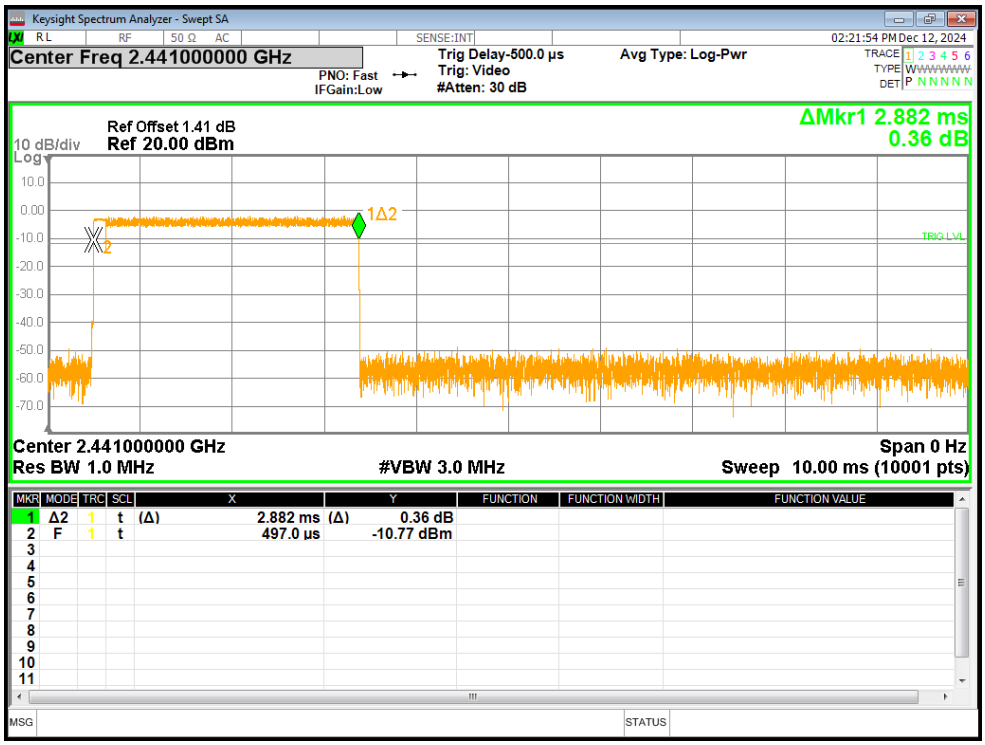


Dwell NVNT 3-DH3 2441MHz Ant1 One Burst

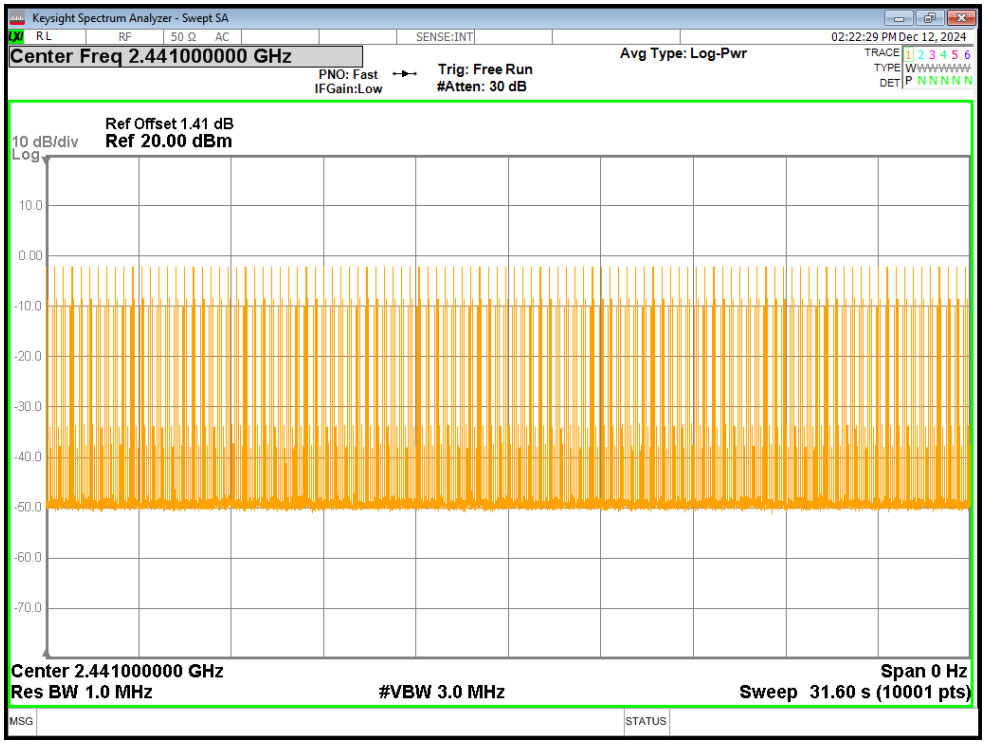
Dwell NVNT 3-DH3 2441MHz Ant1 Accumulated



Dwell NVNT 3-DH5 2441MHz Ant1 One Burst



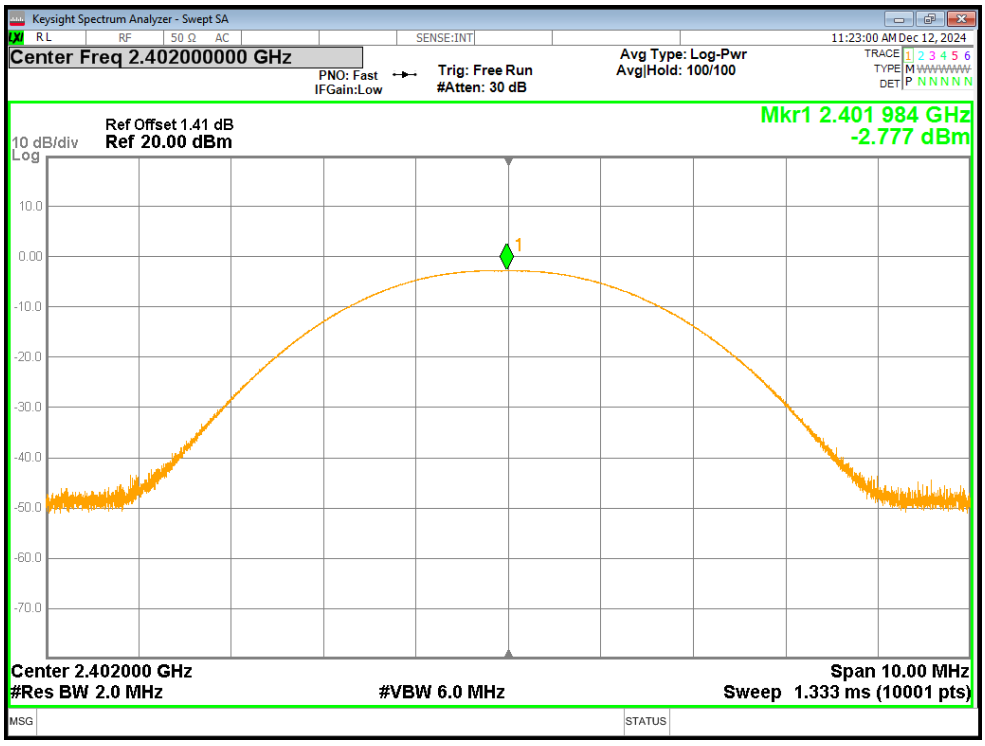
Dwell NVNT 3-DH5 2441MHz Ant1 Accumulated



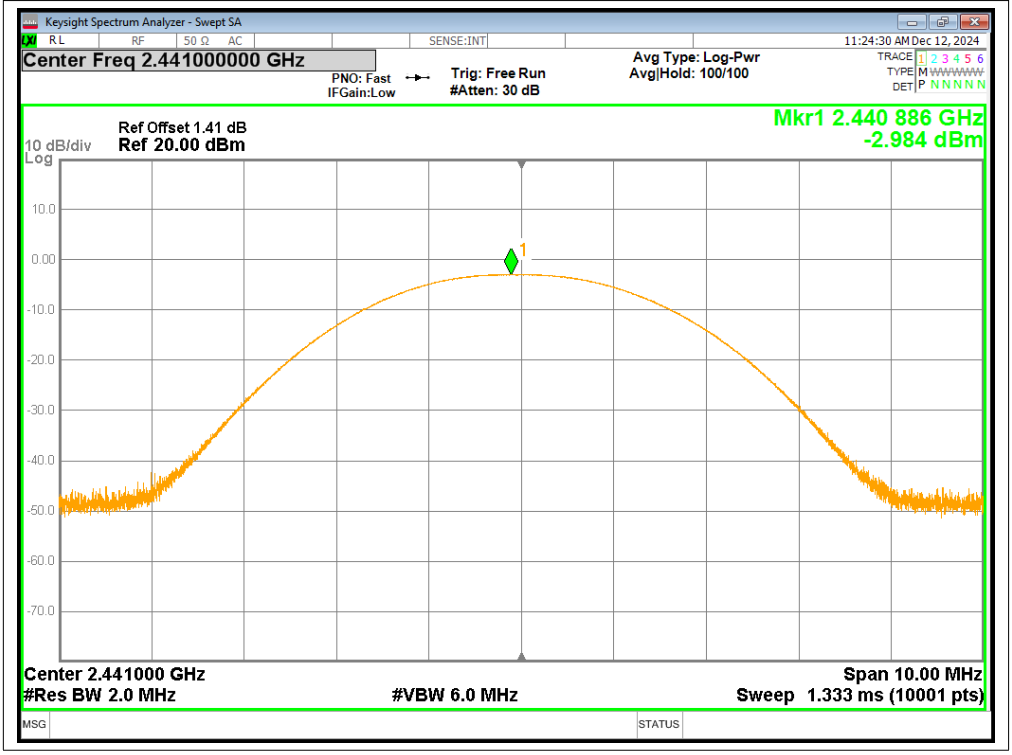
2.Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-2.78	21	Pass
NVNT	1-DH5	2441	Ant1	-2.98	21	Pass
NVNT	1-DH5	2480	Ant1	-4.02	21	Pass
NVNT	2-DH5	2402	Ant1	-2.1	21	Pass
NVNT	2-DH5	2441	Ant1	-2.24	21	Pass
NVNT	2-DH5	2480	Ant1	-3.21	21	Pass
NVNT	3-DH5	2402	Ant1	-1.55	21	Pass
NVNT	3-DH5	2441	Ant1	-1.65	21	Pass
NVNT	3-DH5	2480	Ant1	-2.68	21	Pass

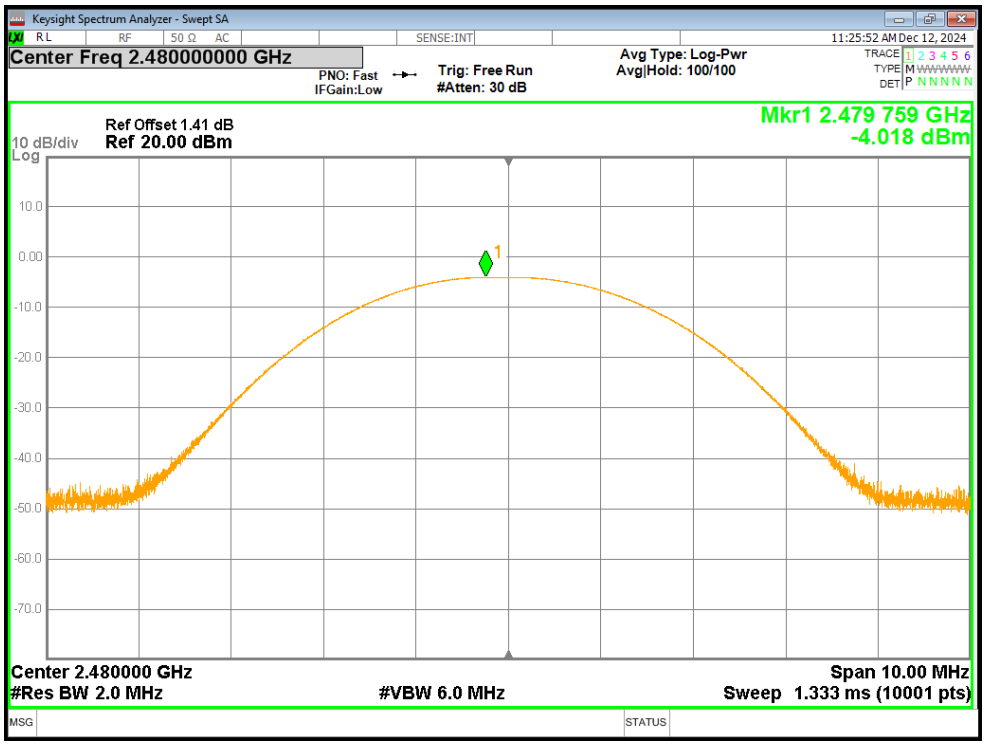
Test Graphs
Peak Power NVNT 1-DH5 2402MHz Ant1



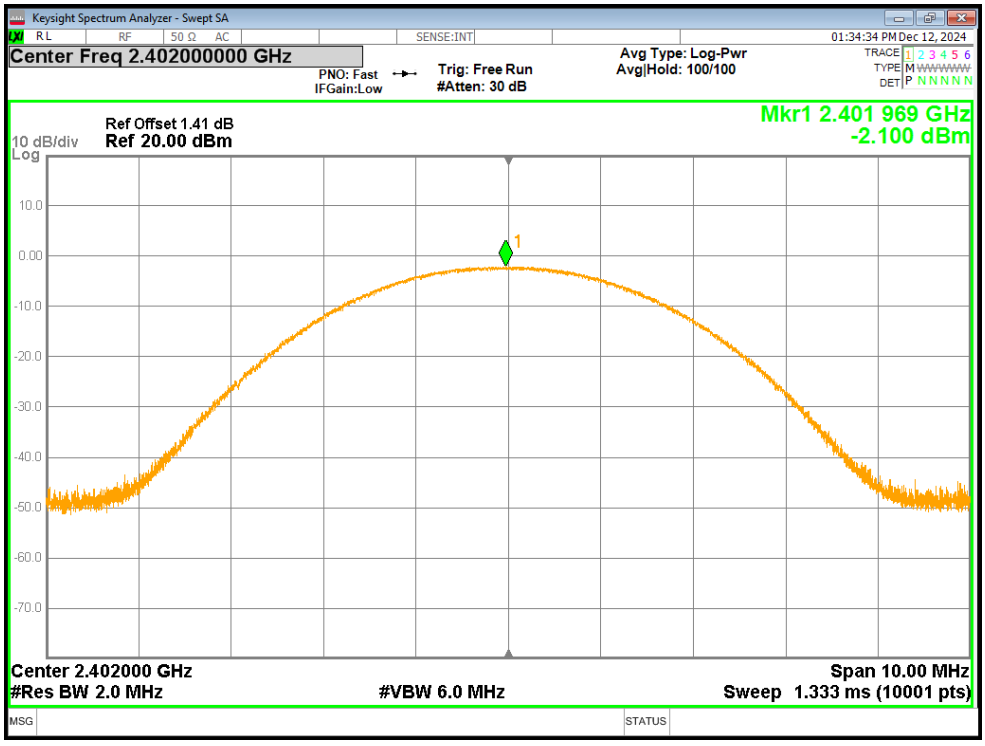
Peak Power NVNT 1-DH5 2441MHz Ant1



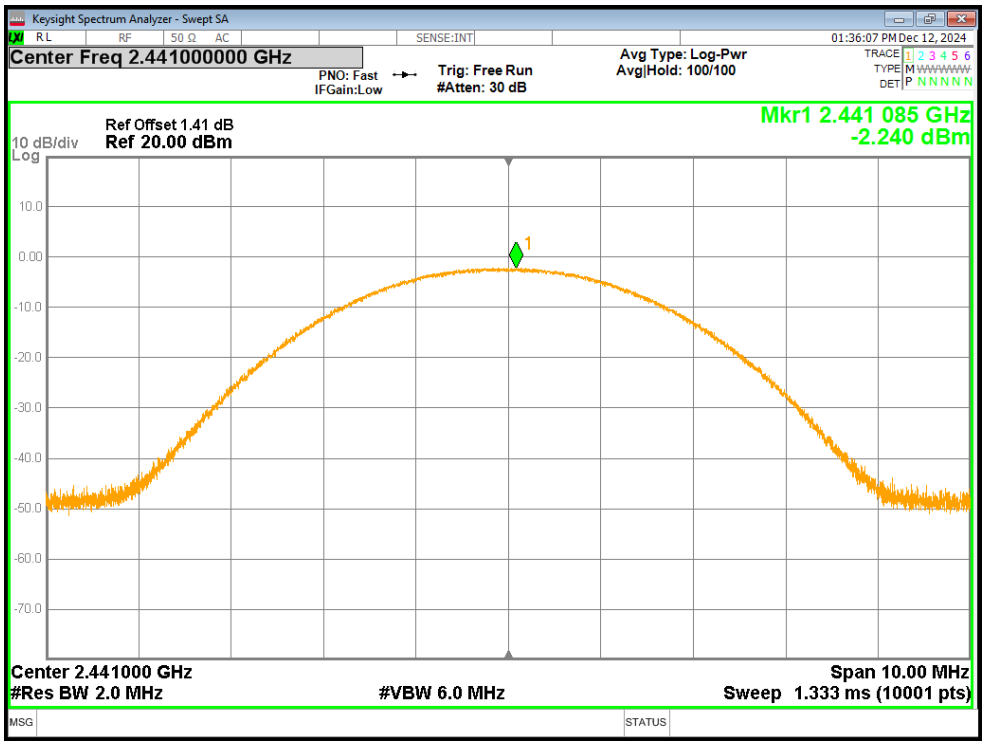
Peak Power NVNT 1-DH5 2480MHz Ant1



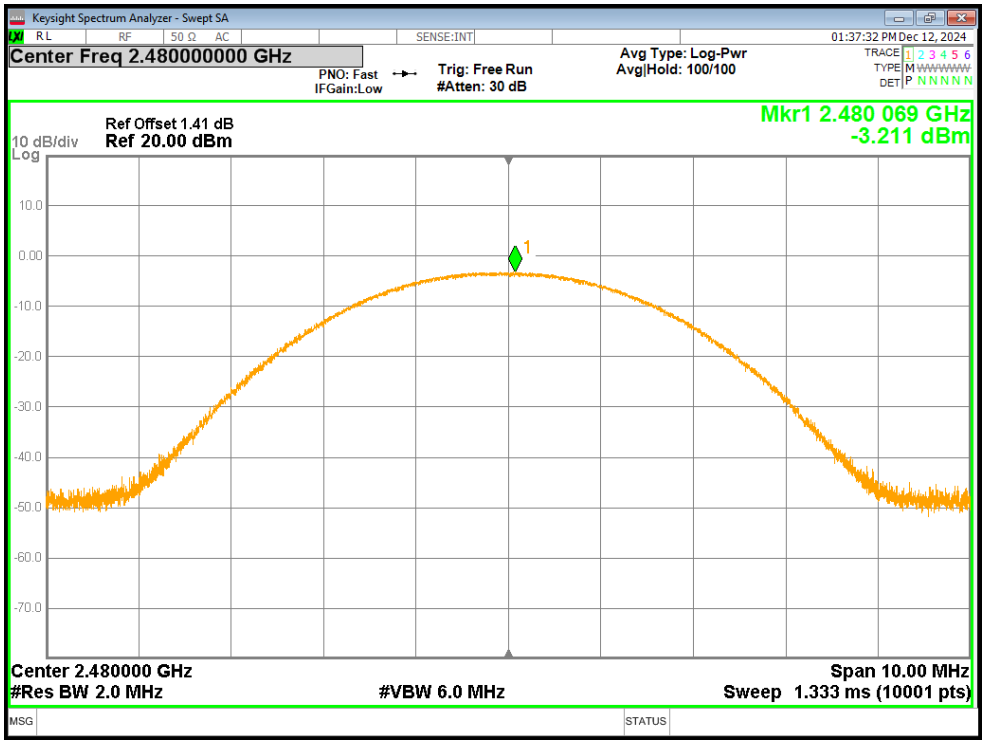
Peak Power NVNT 2-DH5 2402MHz Ant1



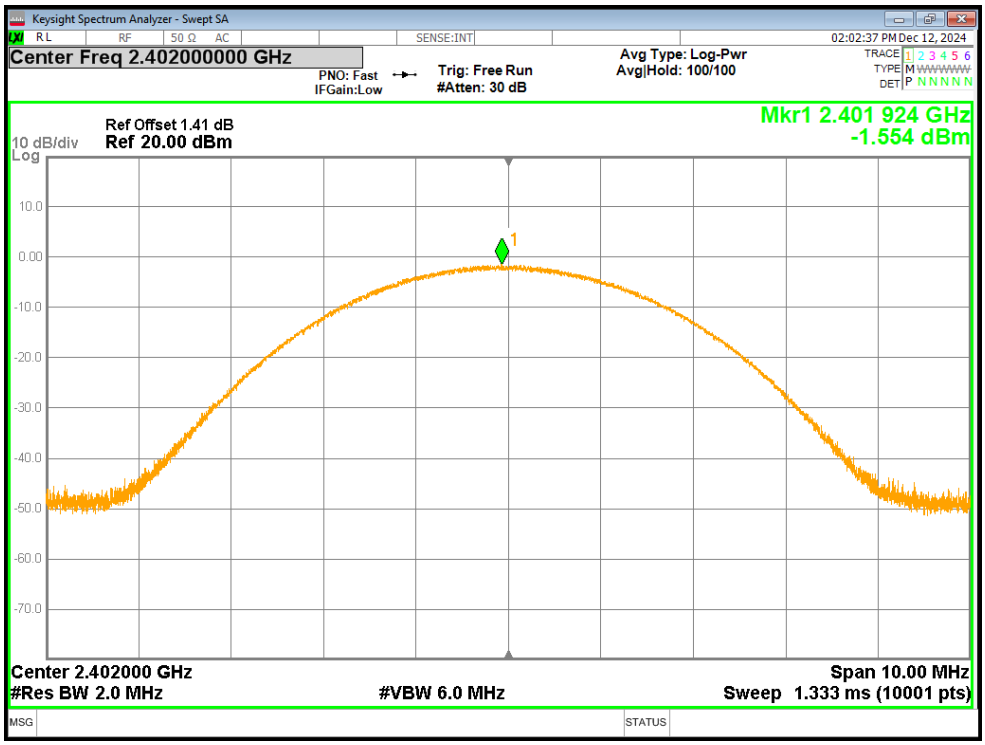
Peak Power NVNT 2-DH5 2441MHz Ant1



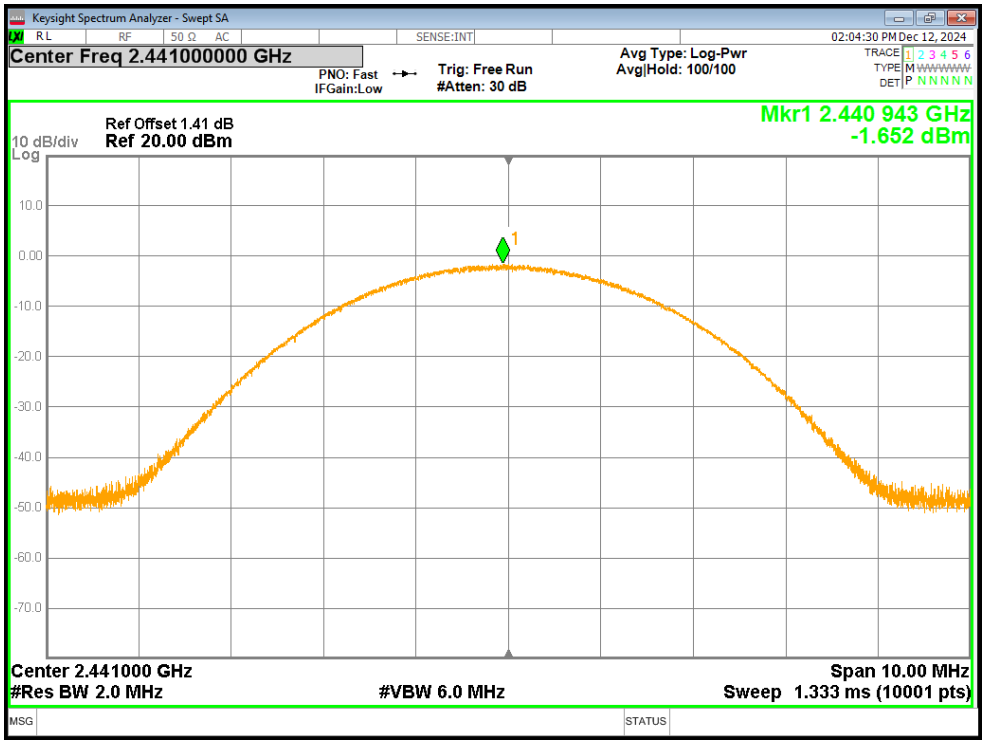
Peak Power NVNT 2-DH5 2480MHz Ant1



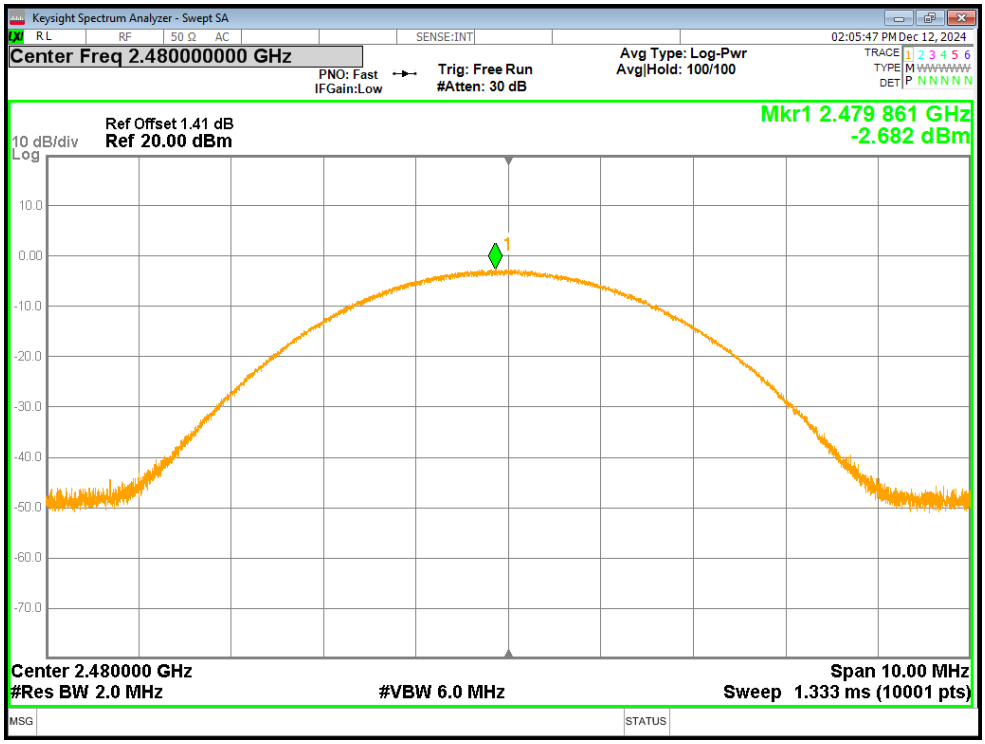
Peak Power NVNT 3-DH5 2402MHz Ant1



Peak Power NVNT 3-DH5 2441MHz Ant1



Peak Power NVNT 3-DH5 2480MHz Ant1

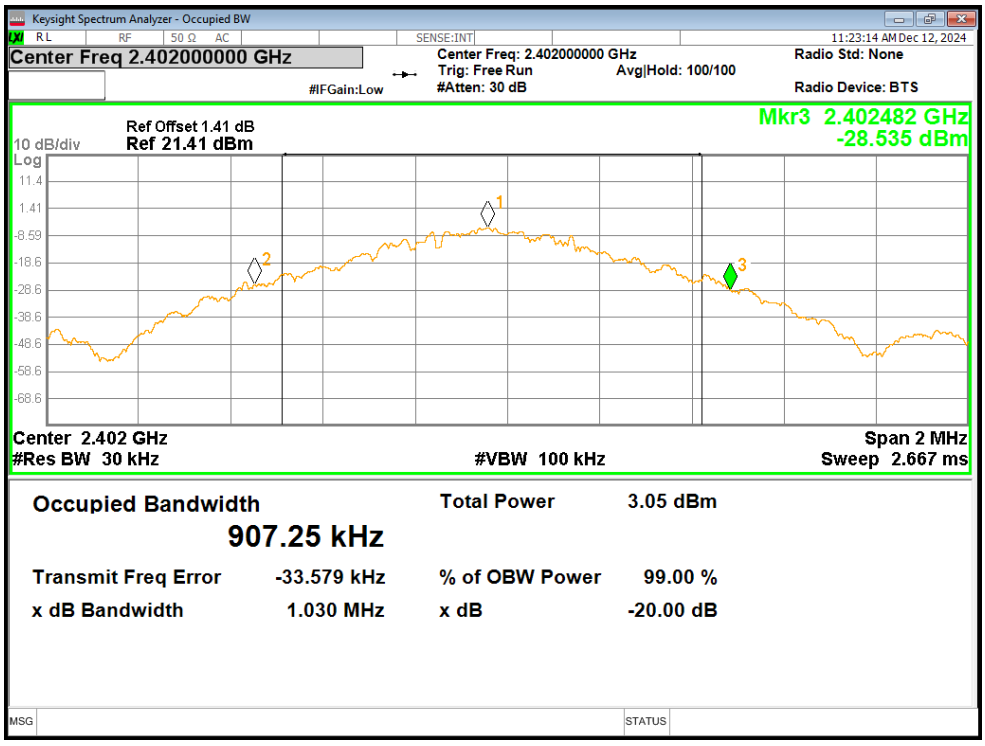


3.-20dB Bandwidth

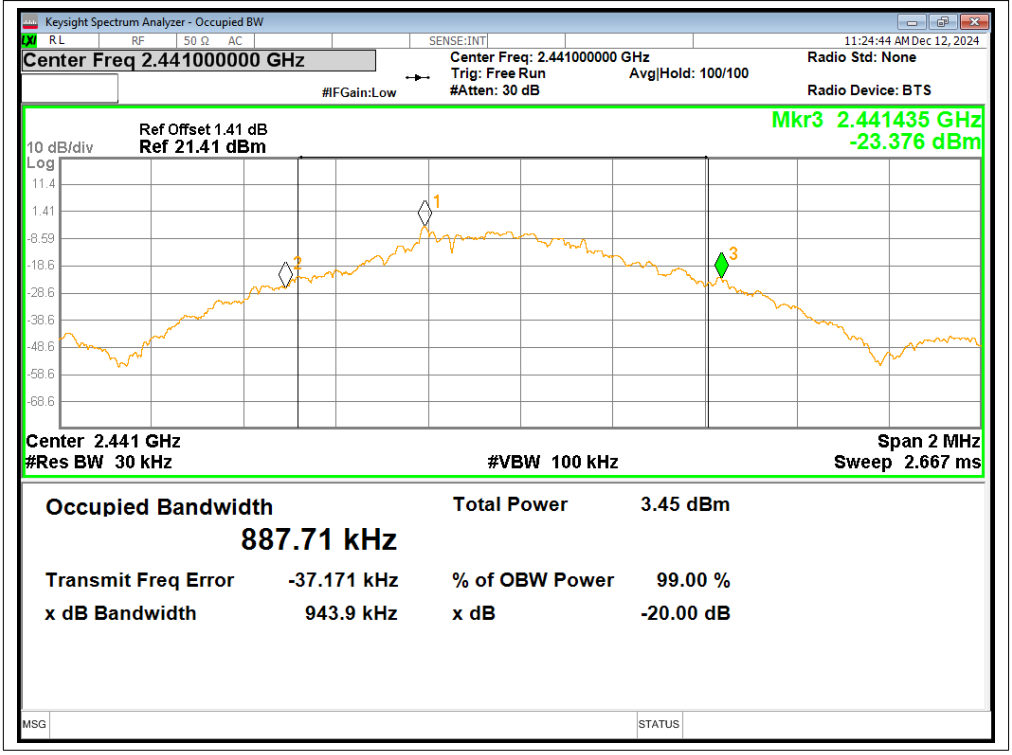
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	1.03	Pass
NVNT	1-DH5	2441	Ant1	0.944	Pass
NVNT	1-DH5	2480	Ant1	0.926	Pass
NVNT	2-DH5	2402	Ant1	1.317	Pass
NVNT	2-DH5	2441	Ant1	1.315	Pass
NVNT	2-DH5	2480	Ant1	1.29	Pass
NVNT	3-DH5	2402	Ant1	1.252	Pass
NVNT	3-DH5	2441	Ant1	1.25	Pass
NVNT	3-DH5	2480	Ant1	1.238	Pass

Test Graphs

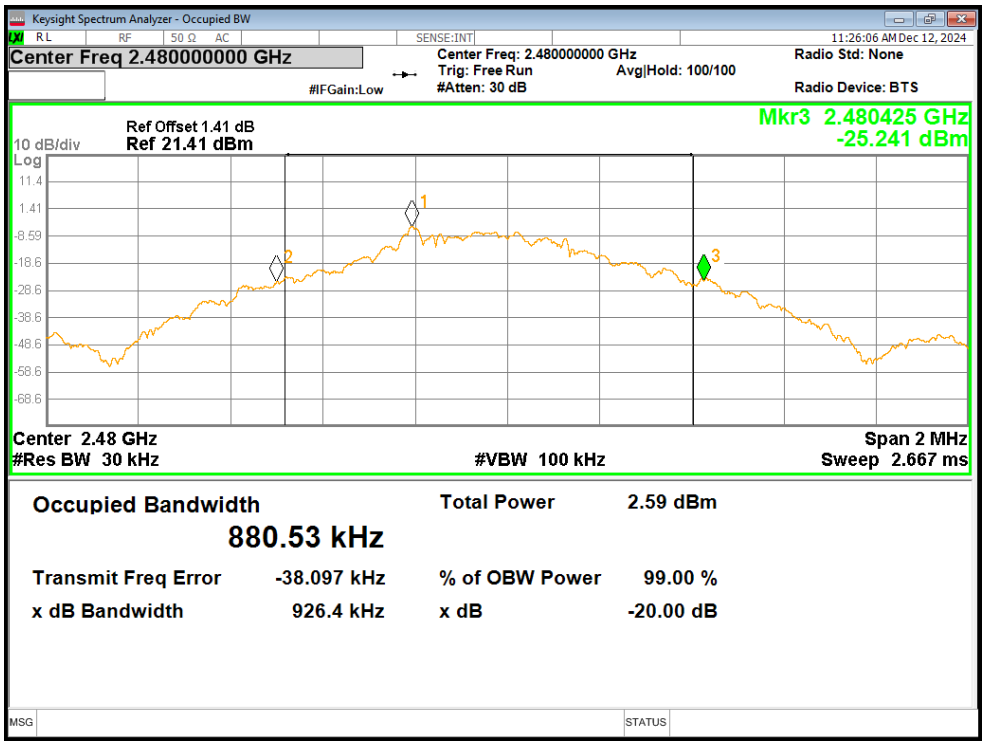
-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



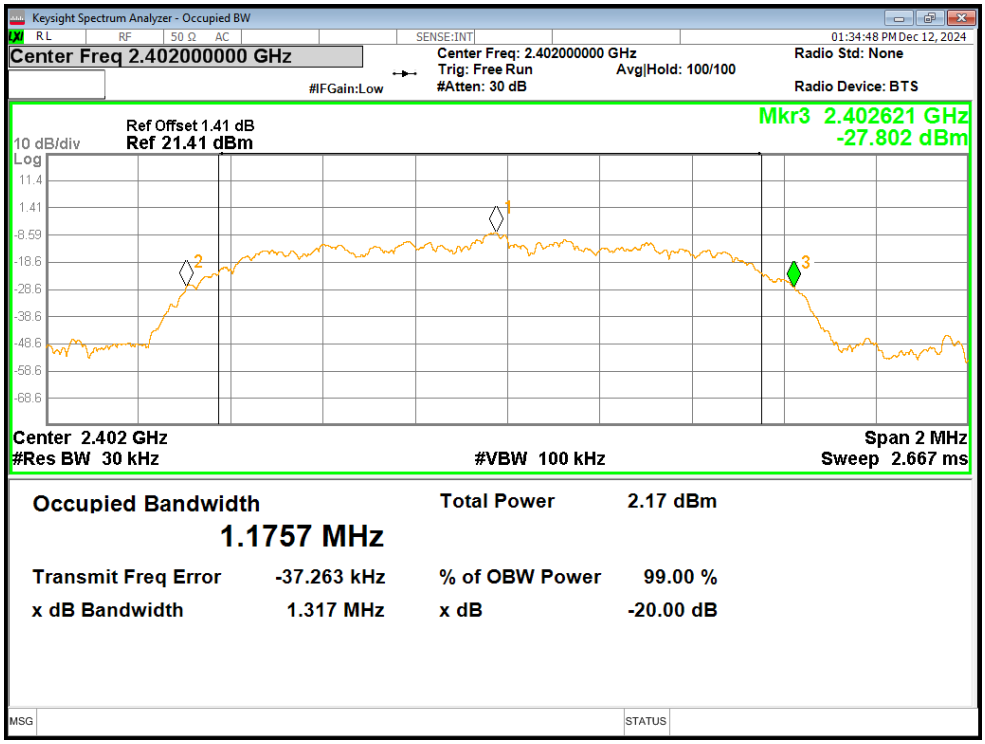
-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



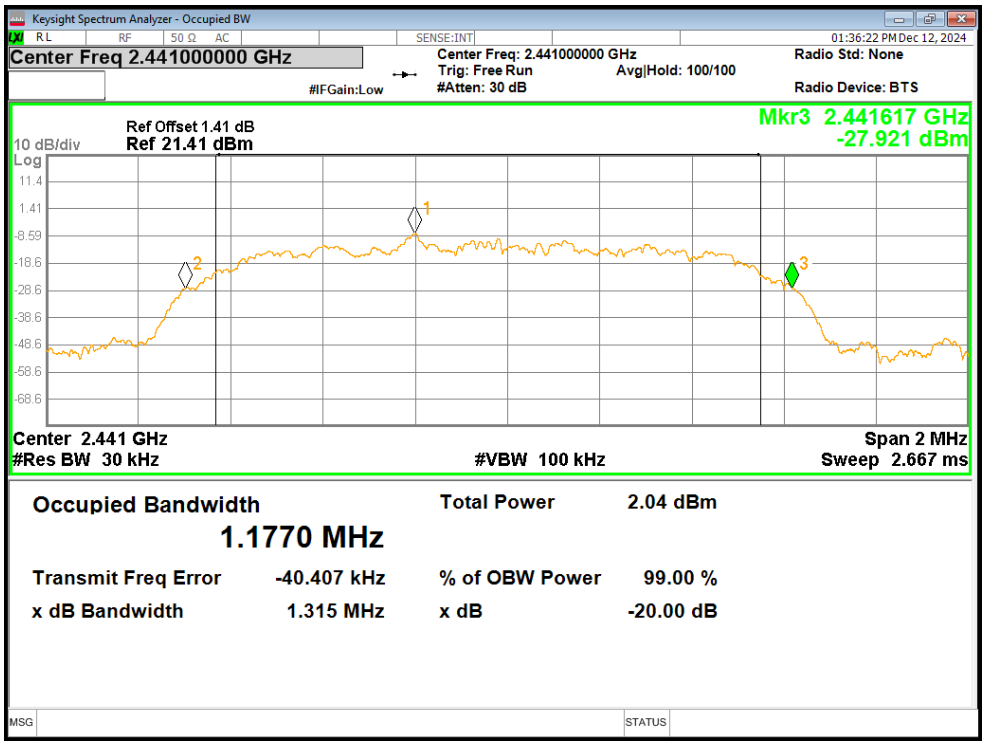
-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



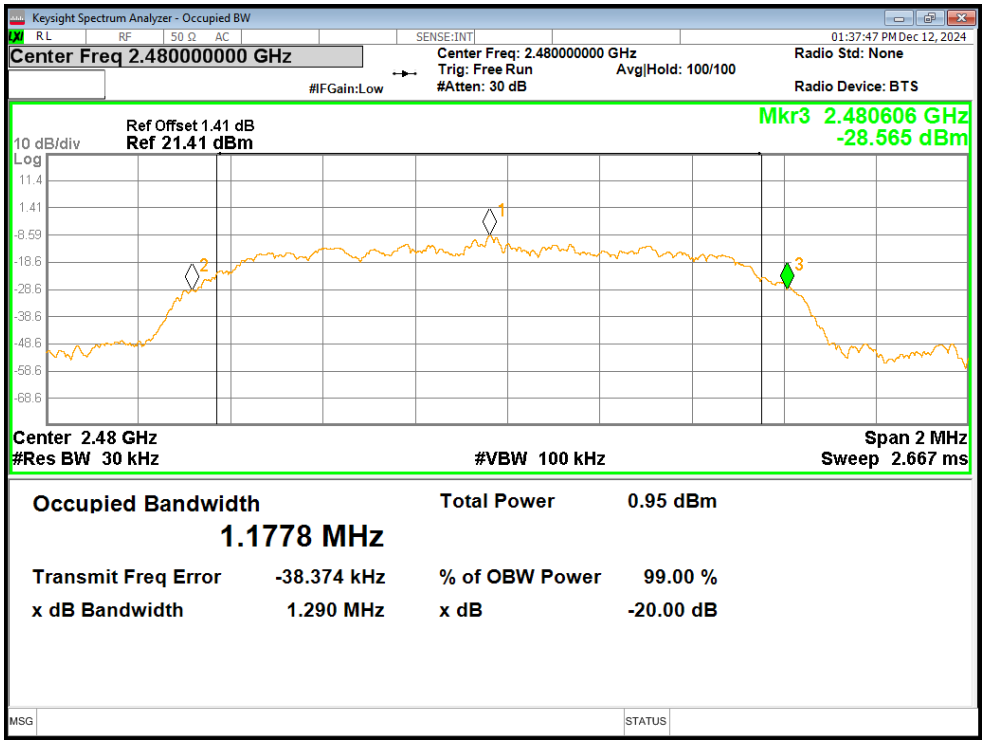
-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



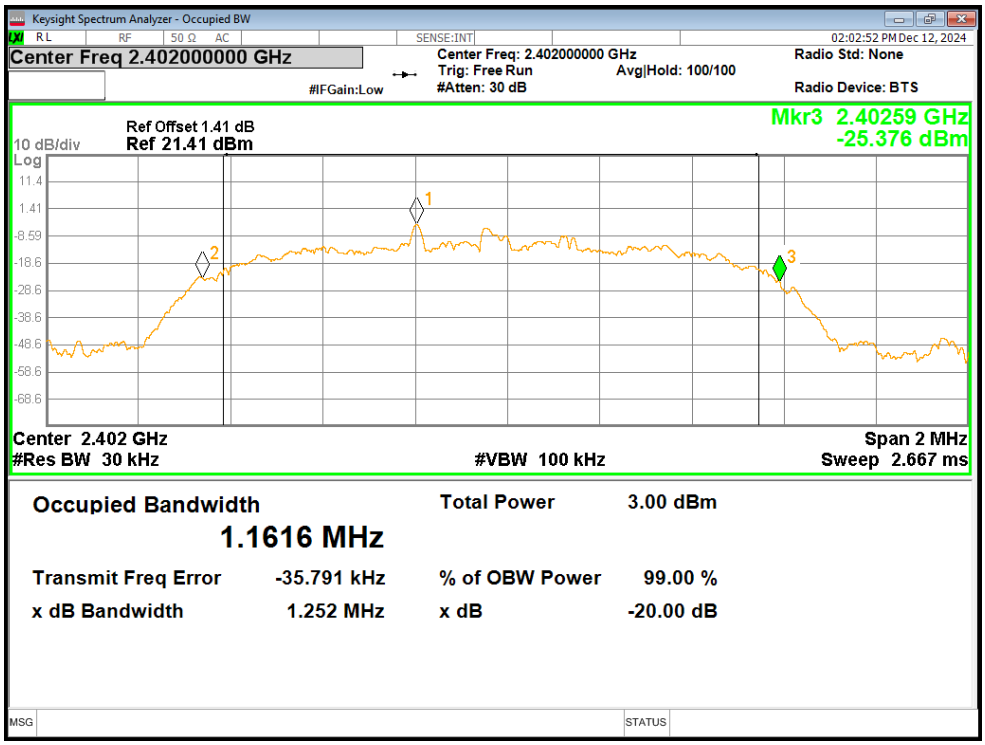
-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



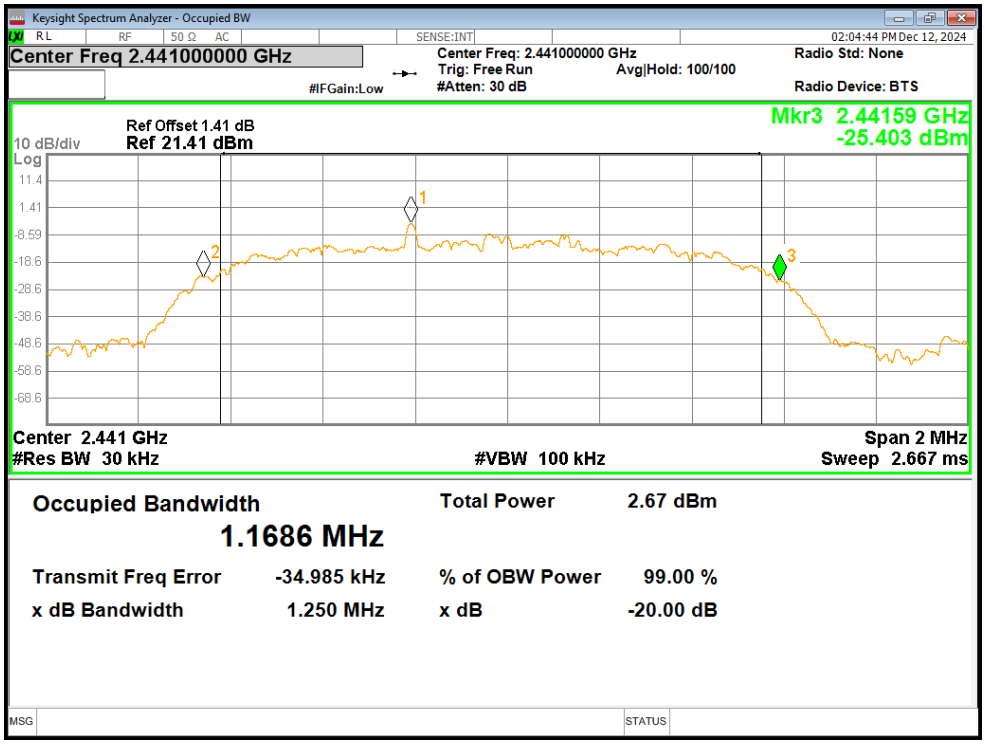
-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



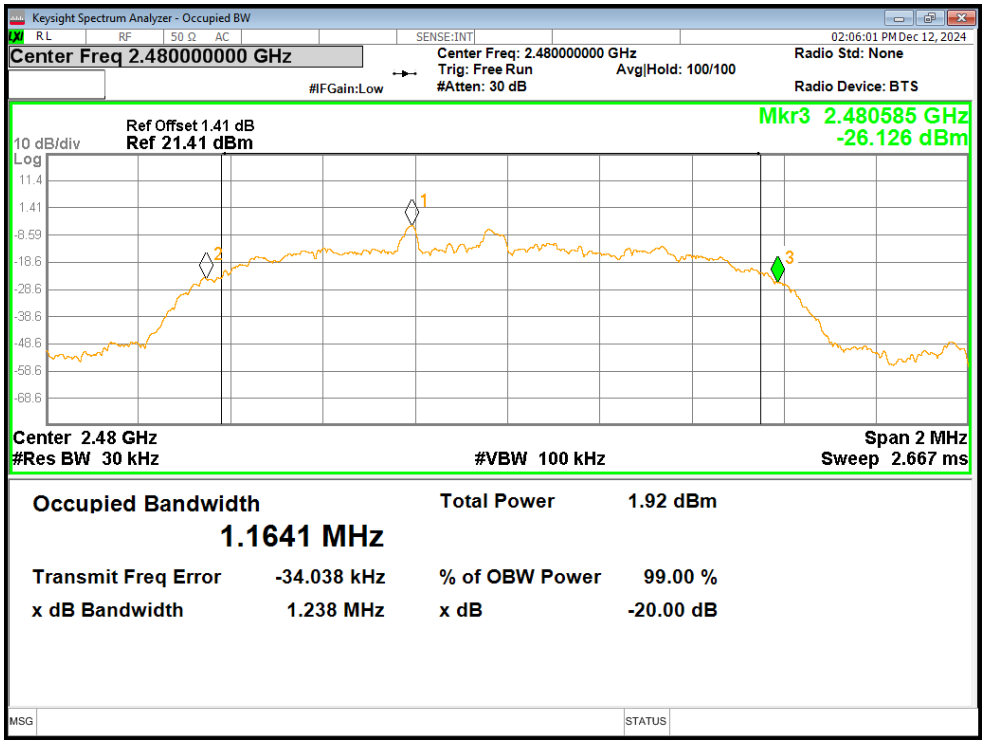
-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1



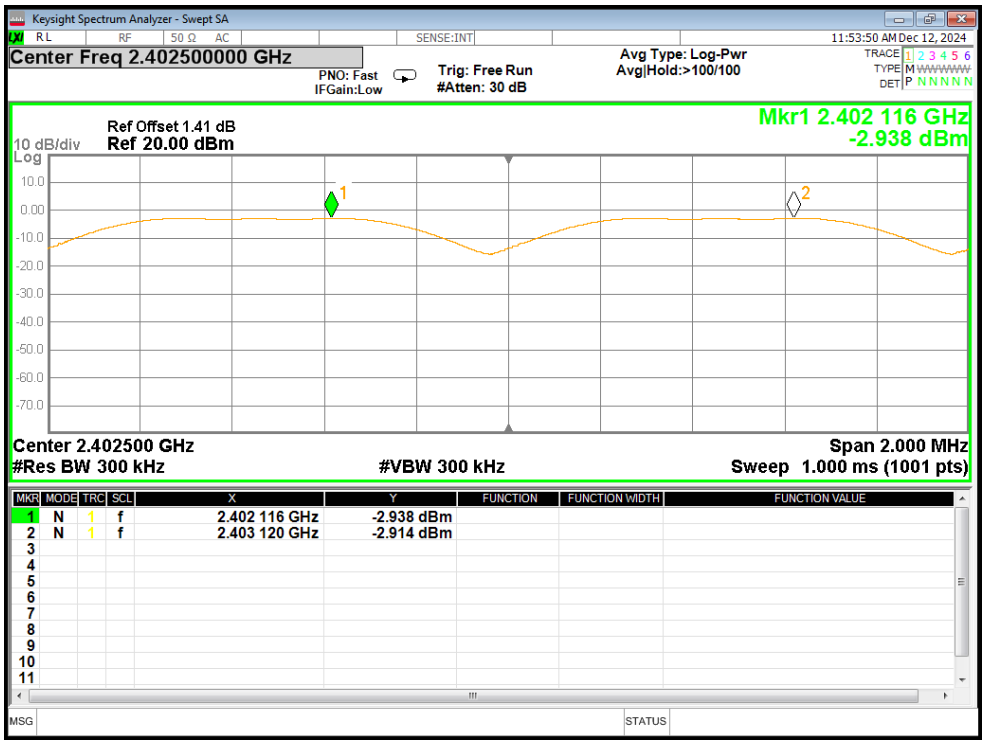
-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1



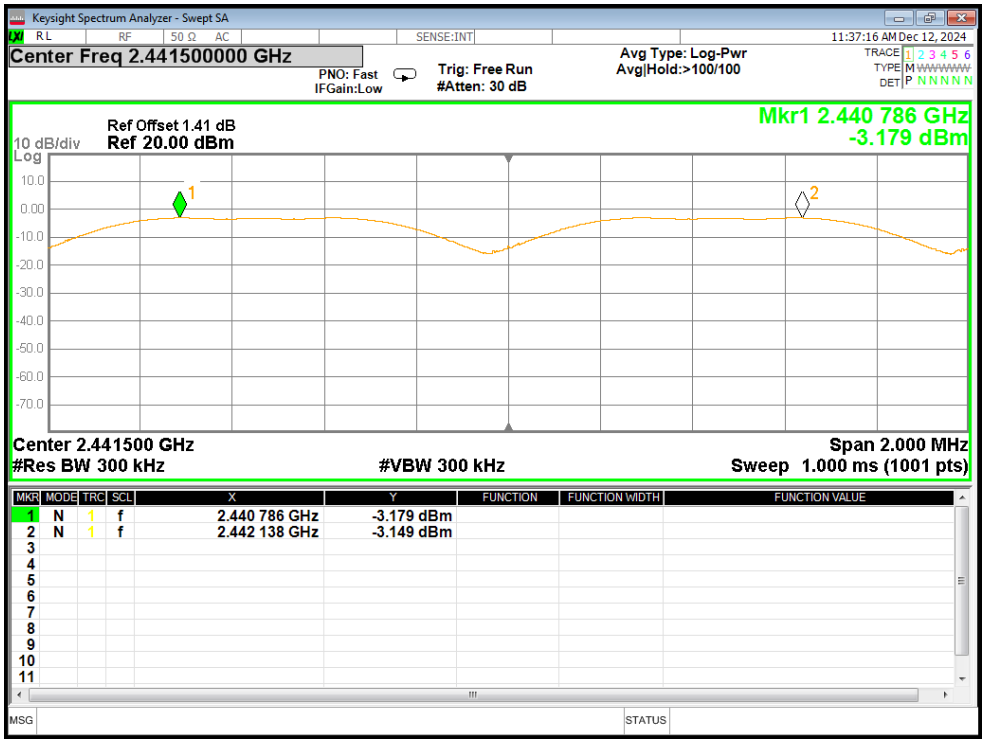
4.Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.116	2403.12	1.004	0.687	Pass
NVNT	1-DH5	Ant1	2440.786	2442.138	1.352	0.629	Pass
NVNT	1-DH5	Ant1	2479.12	2479.79	0.67	0.617	Pass
NVNT	2-DH5	Ant1	2402.128	2403.13	1.002	0.878	Pass
NVNT	2-DH5	Ant1	2440.786	2441.79	1.004	0.877	Pass
NVNT	2-DH5	Ant1	2478.784	2479.788	1.004	0.86	Pass
NVNT	3-DH5	Ant1	2401.796	2403.122	1.326	0.835	Pass
NVNT	3-DH5	Ant1	2440.794	2441.79	0.996	0.833	Pass
NVNT	3-DH5	Ant1	2478.958	2479.96	1.002	0.825	Pass

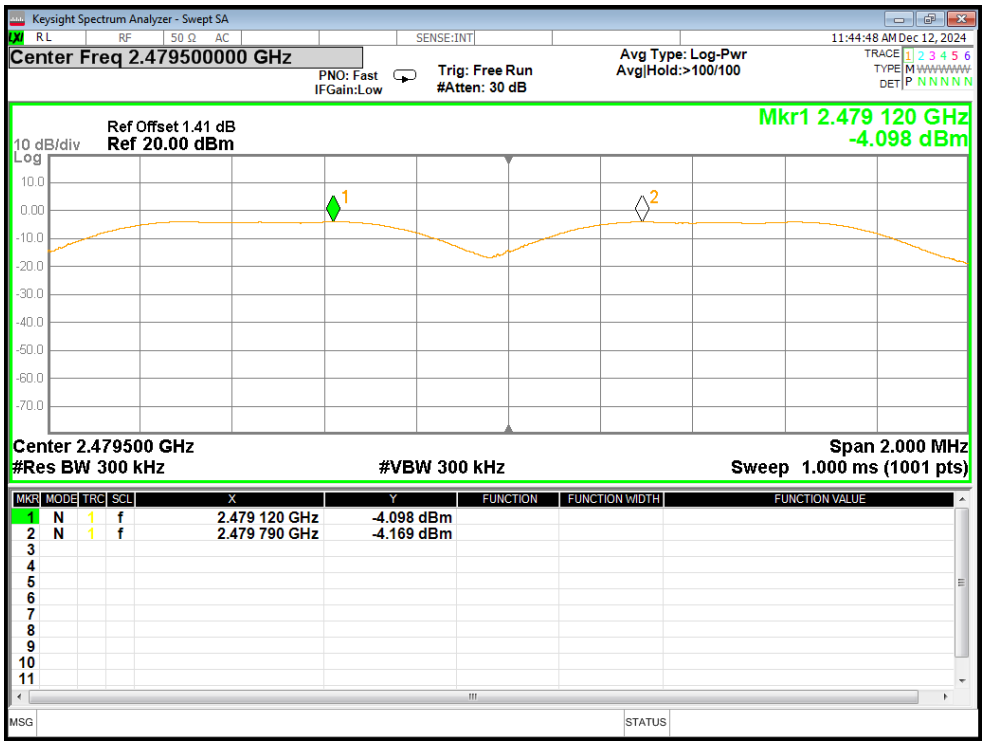
Test Graphs
CFS NVNT 1-DH5 2402MHz Ant1



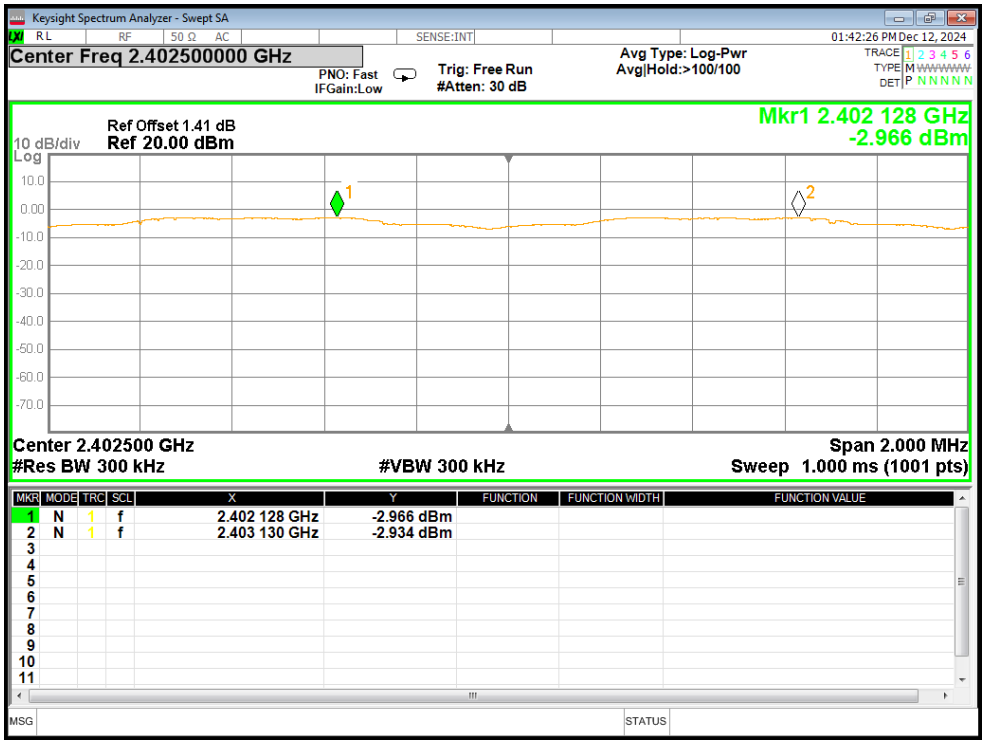
CFS NVNT 1-DH5 2441MHz Ant1



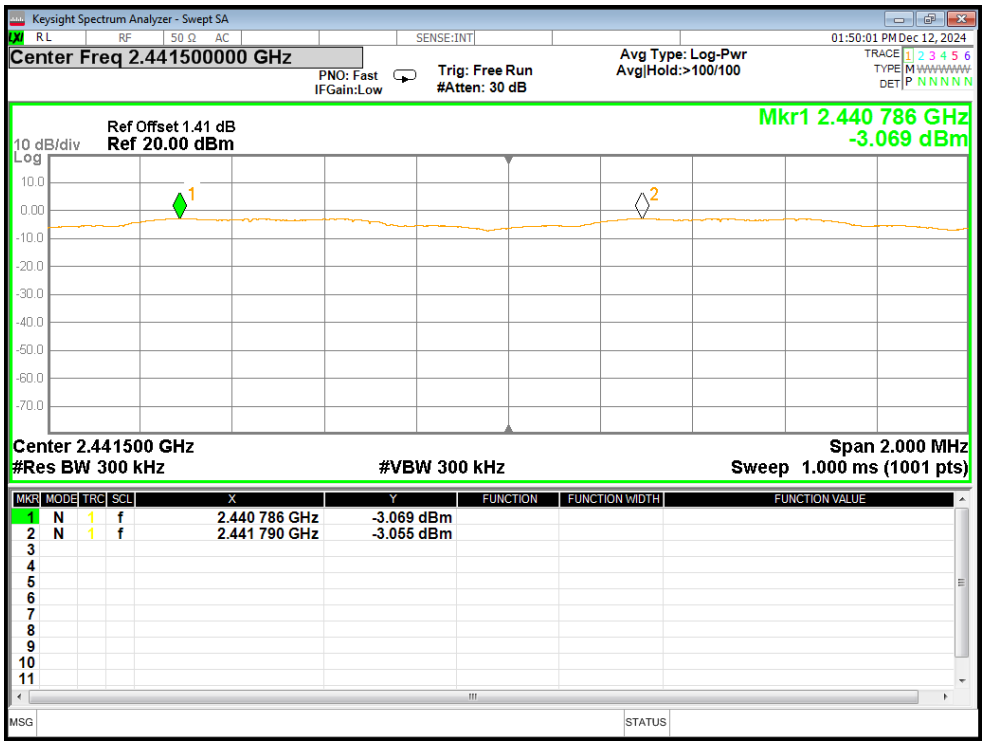
CFS NVNT 1-DH5 2480MHz Ant1



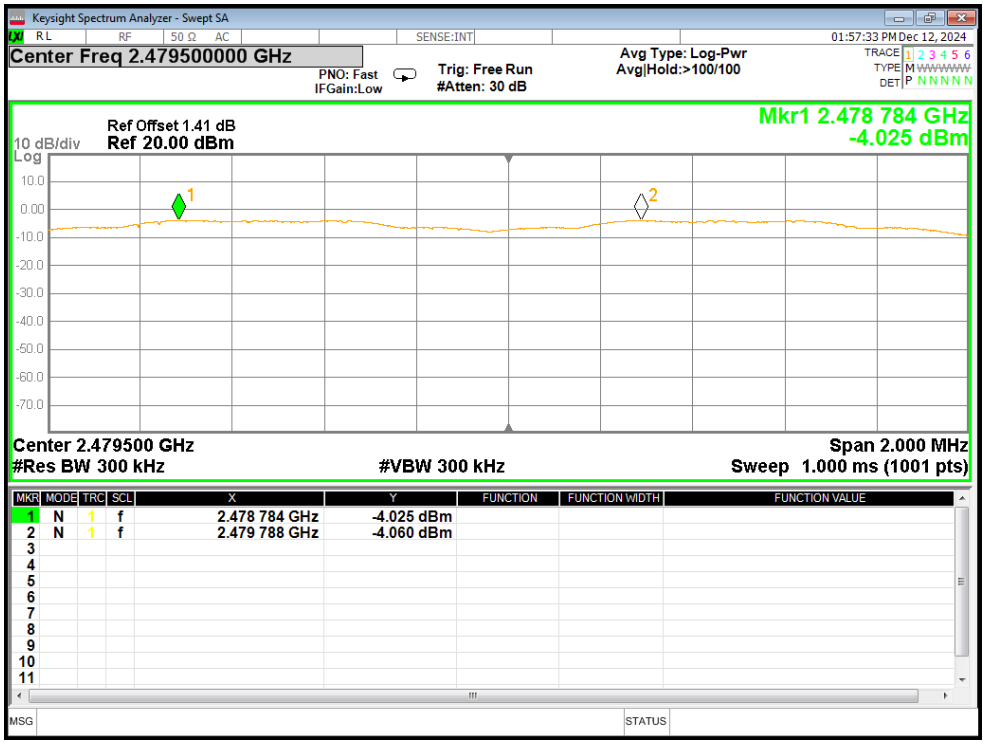
CFS NVNT 2-DH5 2402MHz Ant1



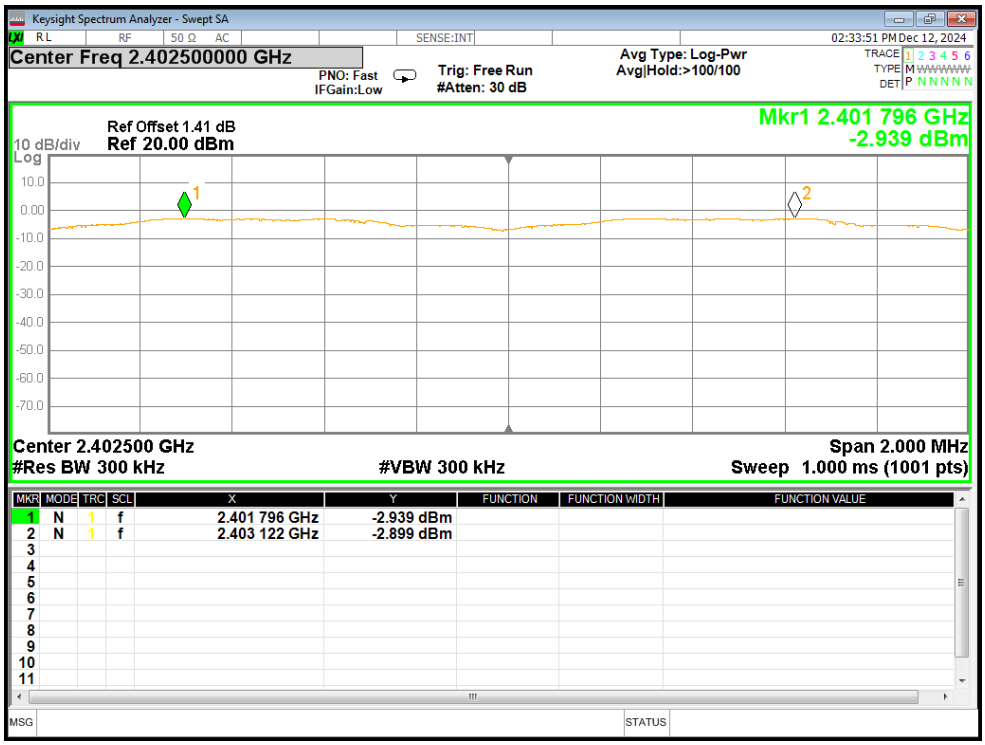
CFS NVNT 2-DH5 2441MHz Ant1



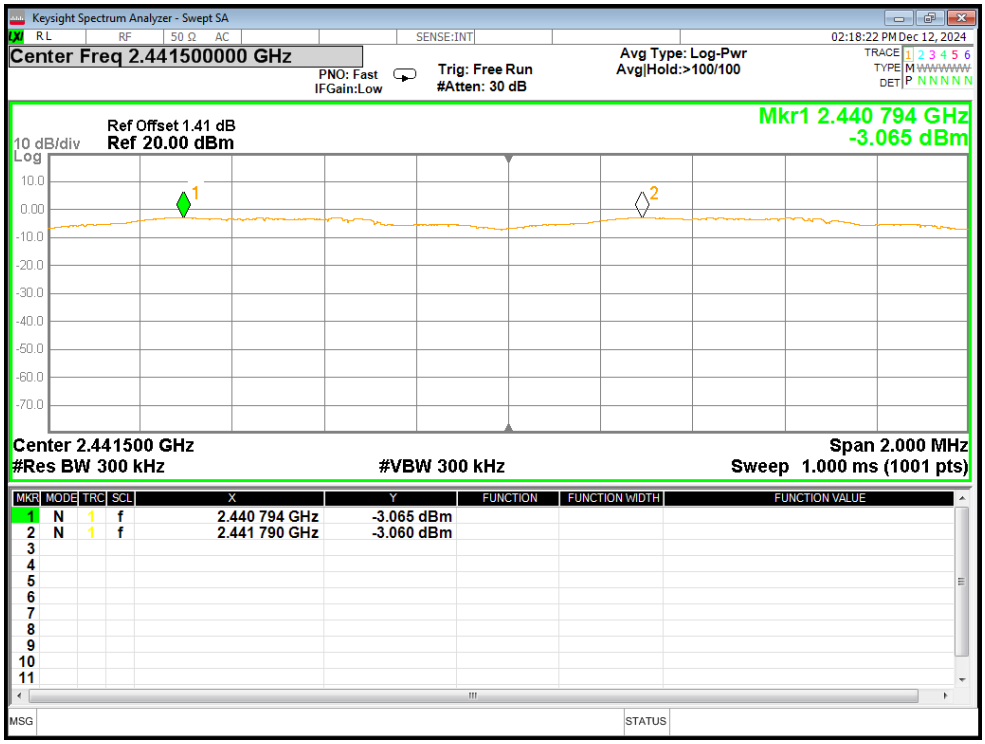
CFS NVNT 2-DH5 2480MHz Ant1



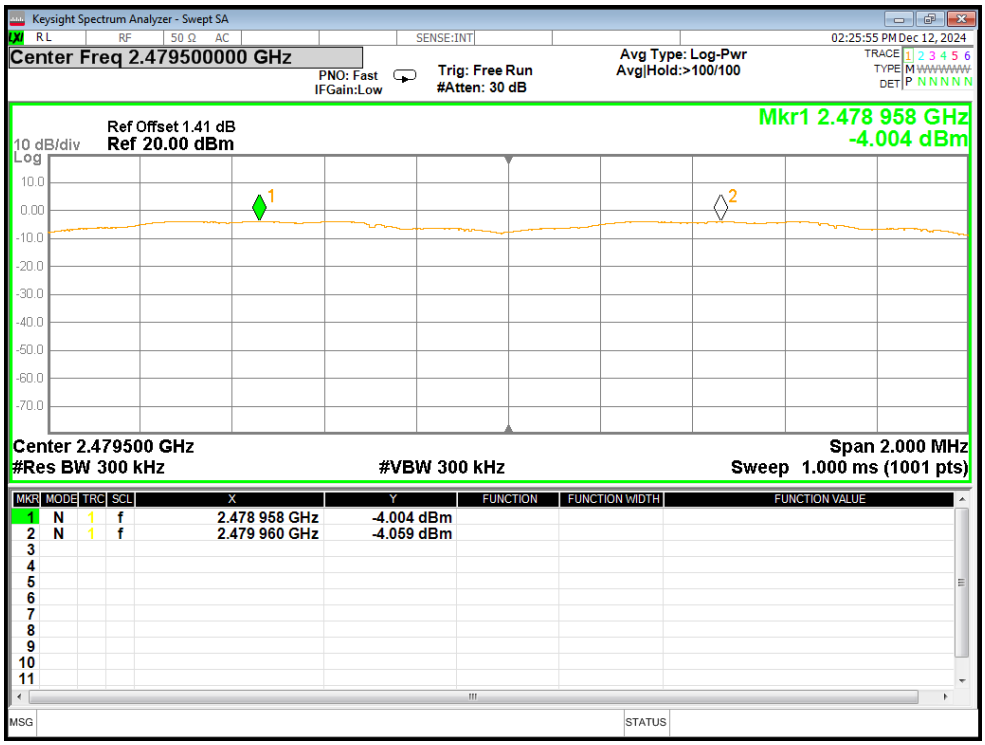
CFS NVNT 3-DH5 2402MHz Ant1



CFS NVNT 3-DH5 2441MHz Ant1



CFS NVNT 3-DH5 2480MHz Ant1

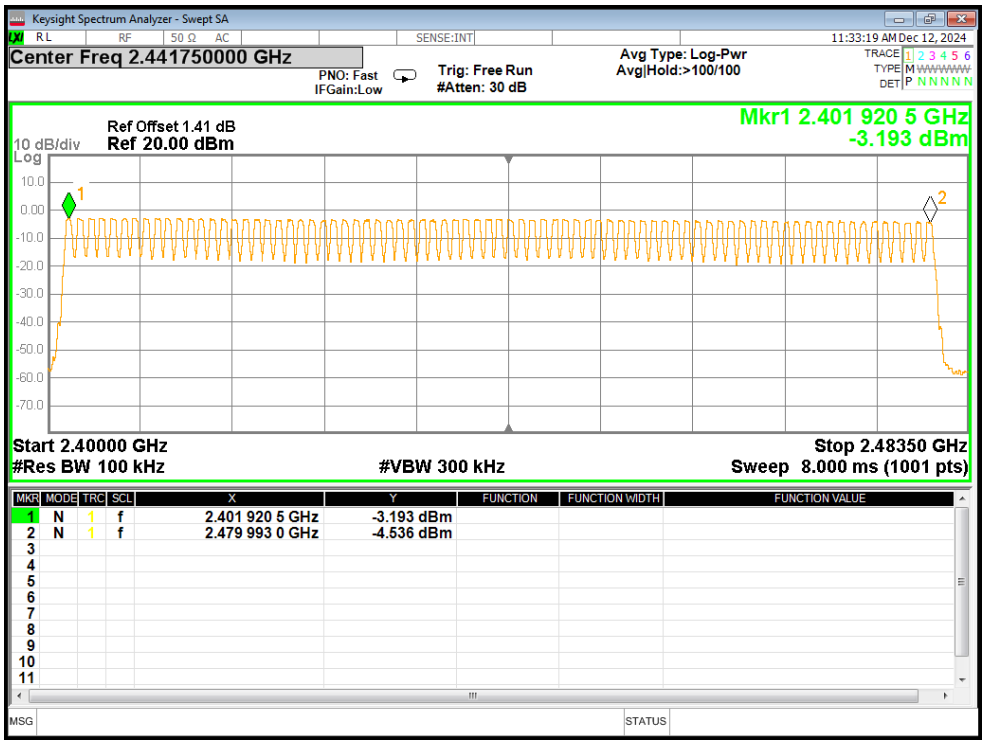


5.Number of Hopping Channel

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

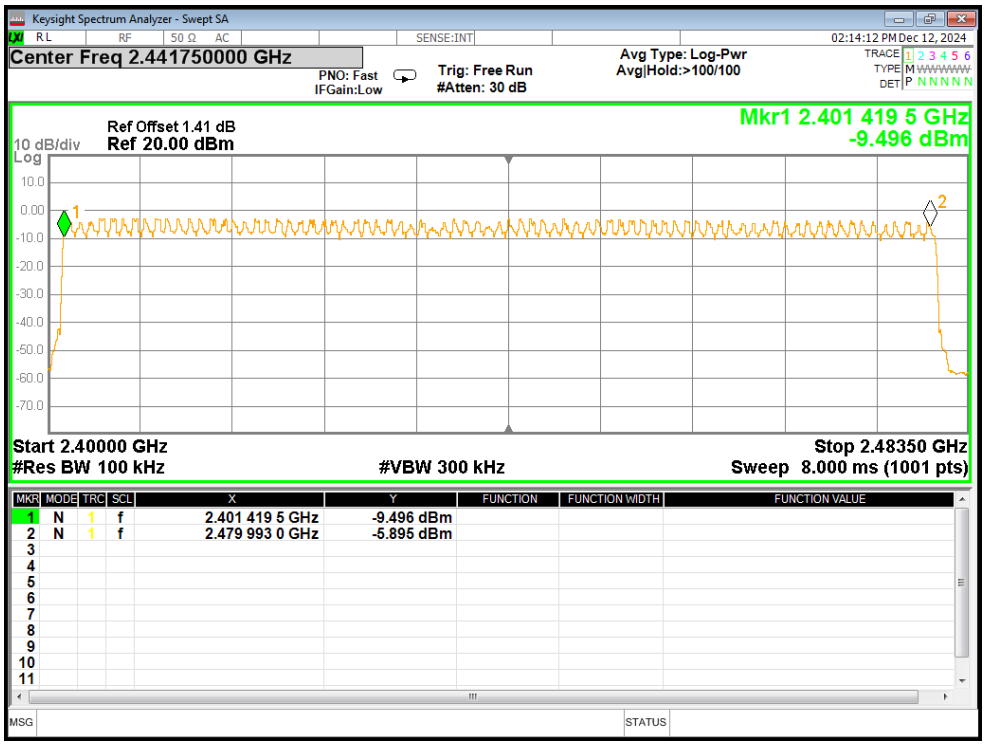
Test Graphs

Hopping No. NVNT 1-DH5 Ant1



Hopping No. NVNT 2-DH5 Ant1

Hopping No. NVNT 3-DH5 Ant1

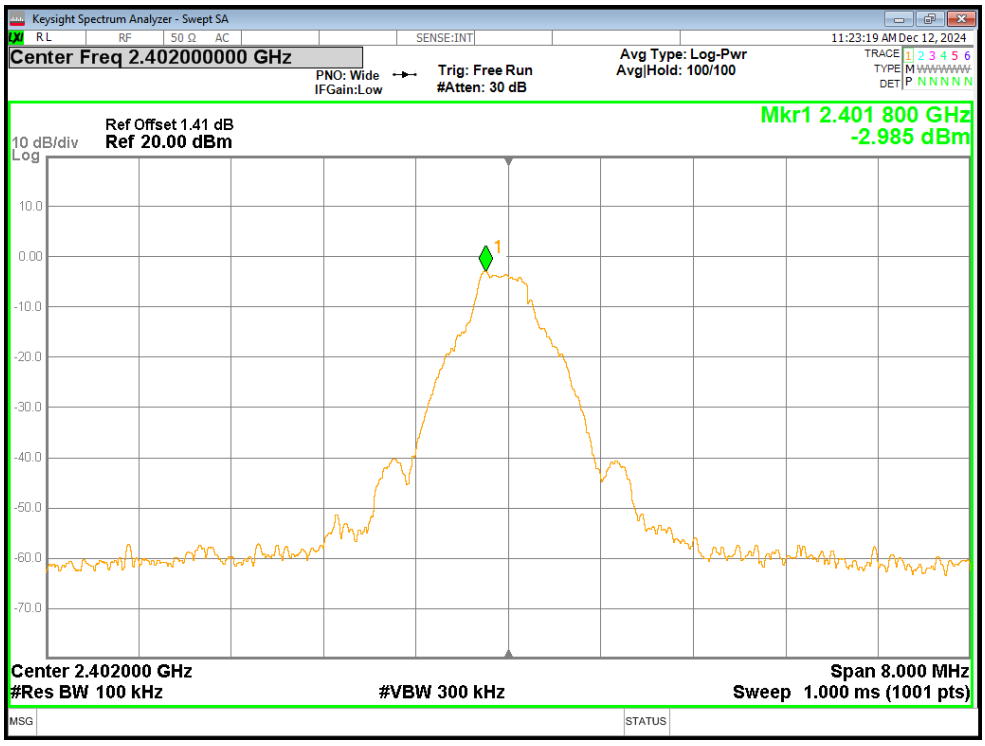


6.Band Edge

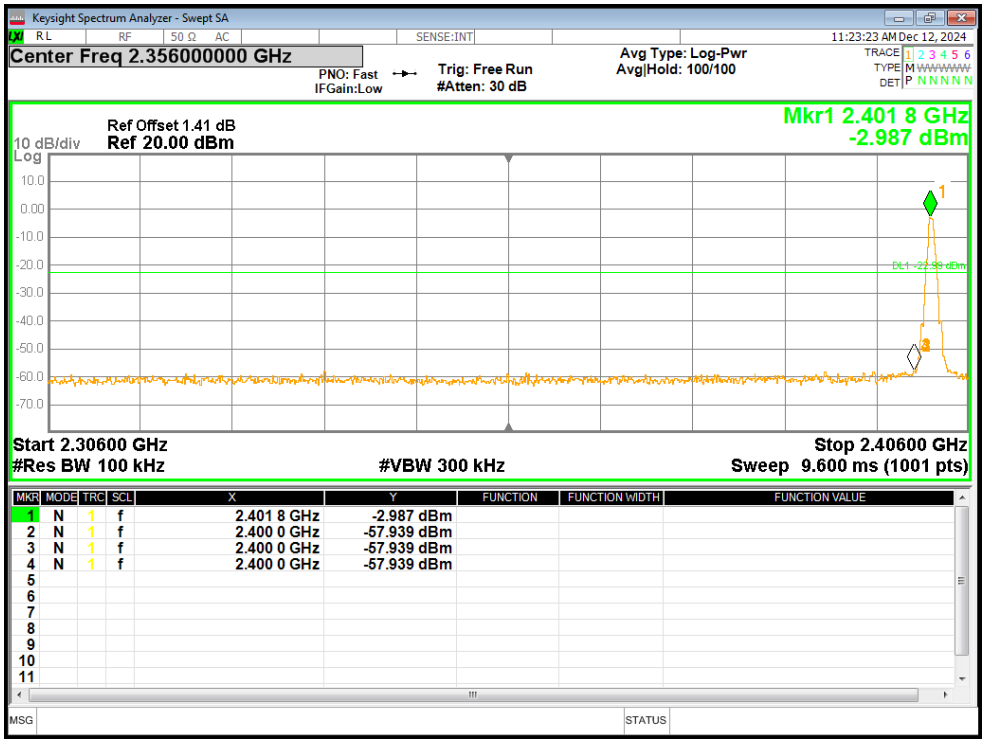
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-54.95	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-54.16	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-53.45	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-53.68	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-54.58	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-50.3	-20	Pass

Test Graphs

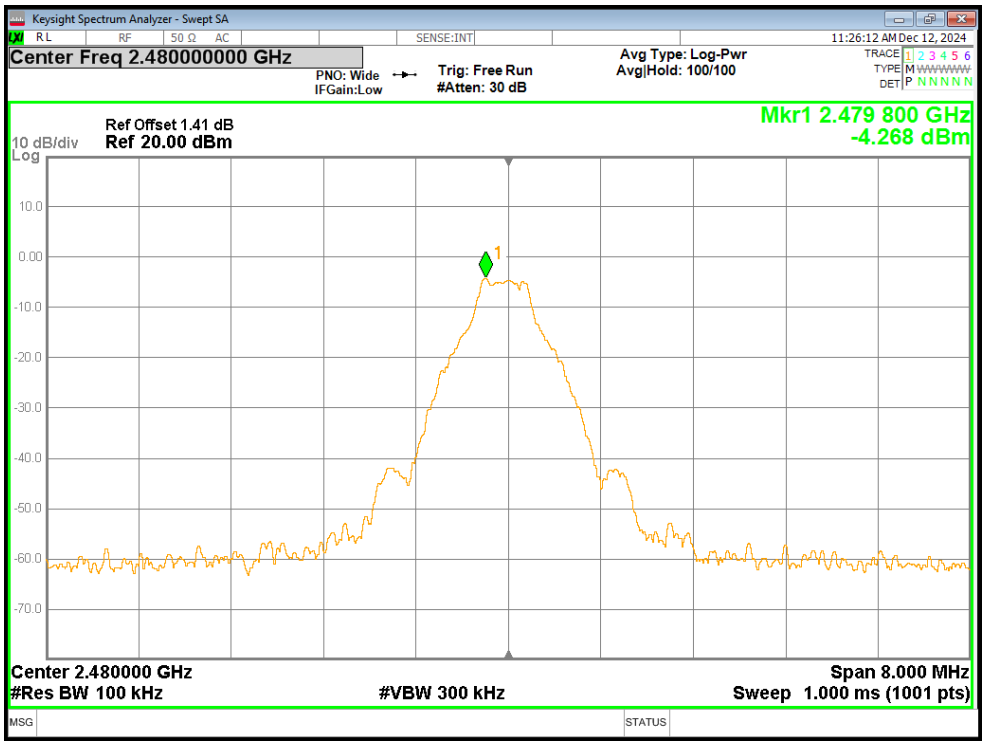
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



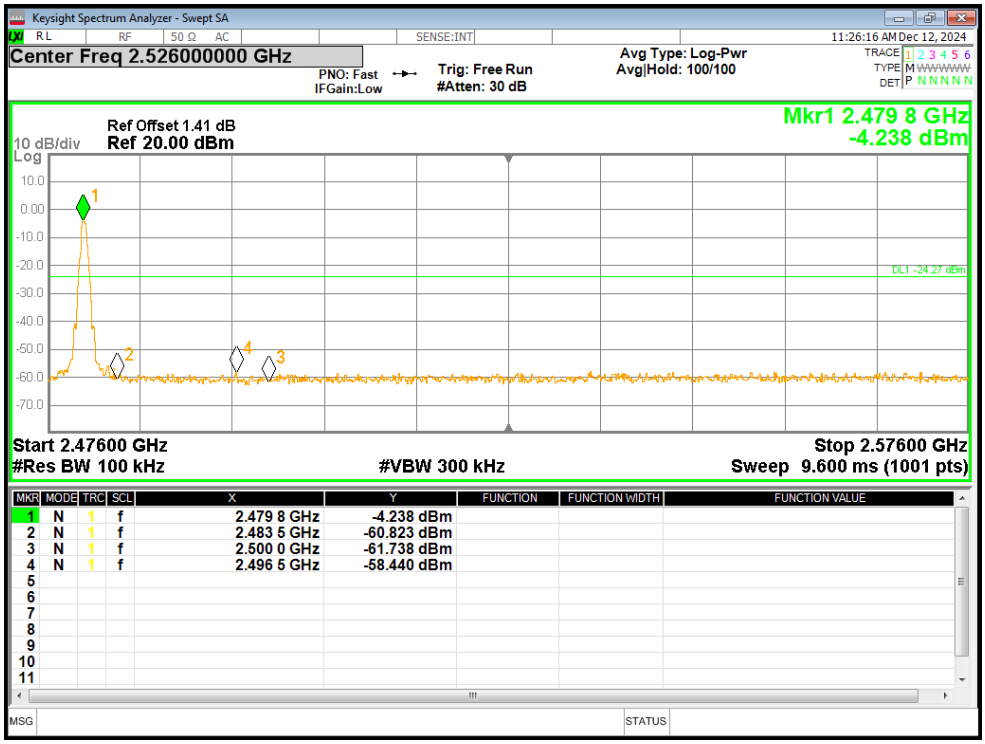
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



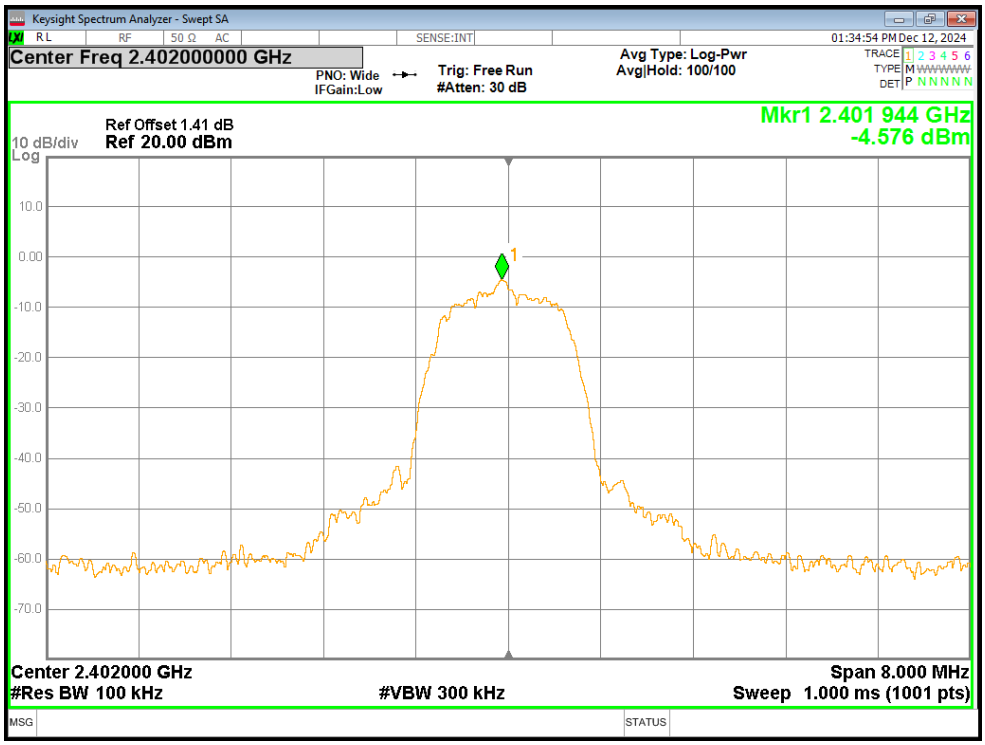
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



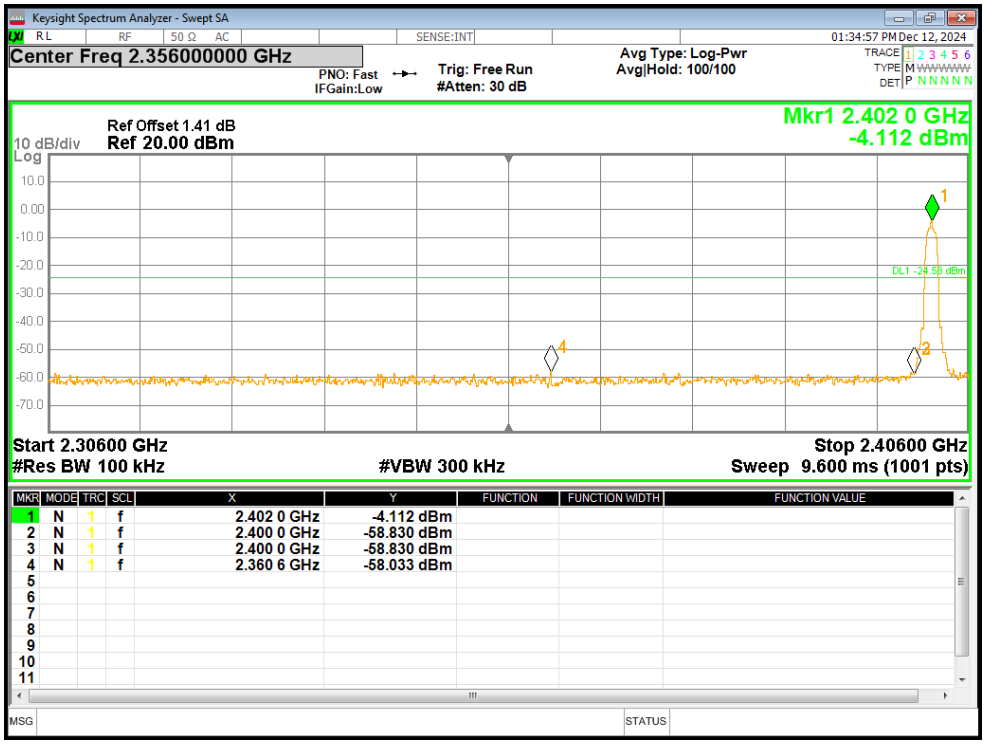
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission



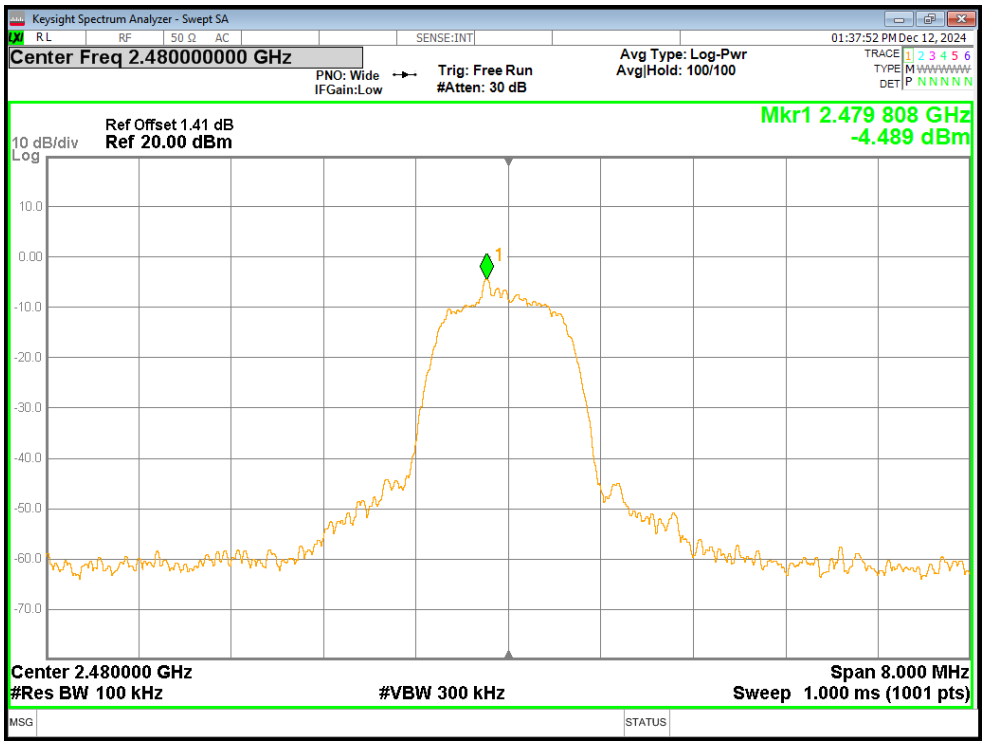
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



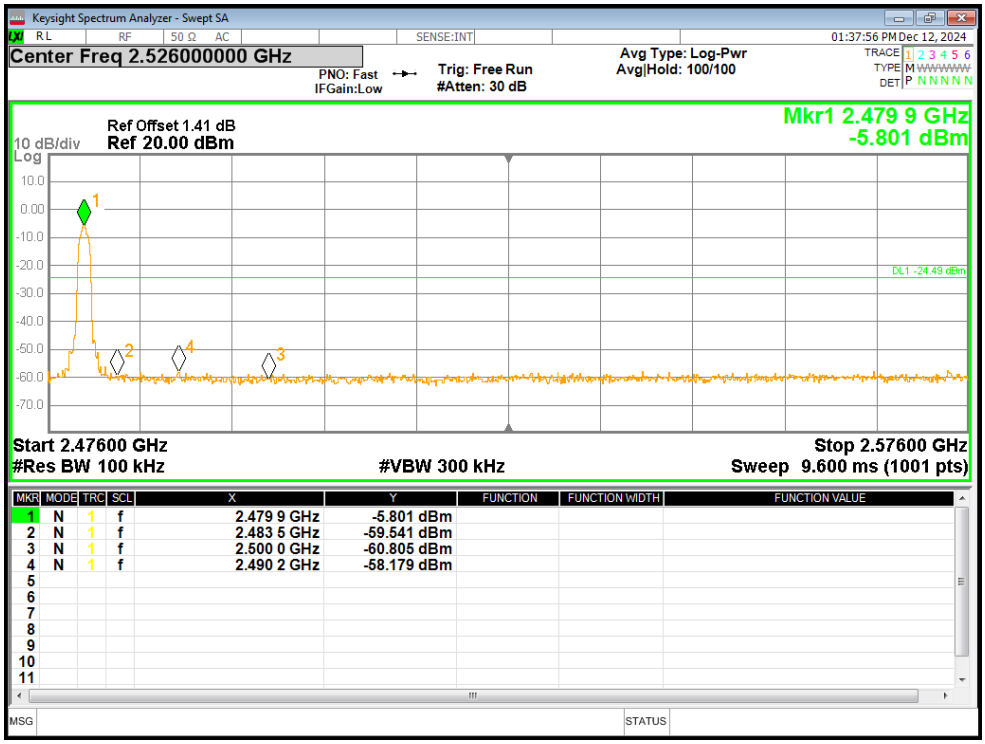
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



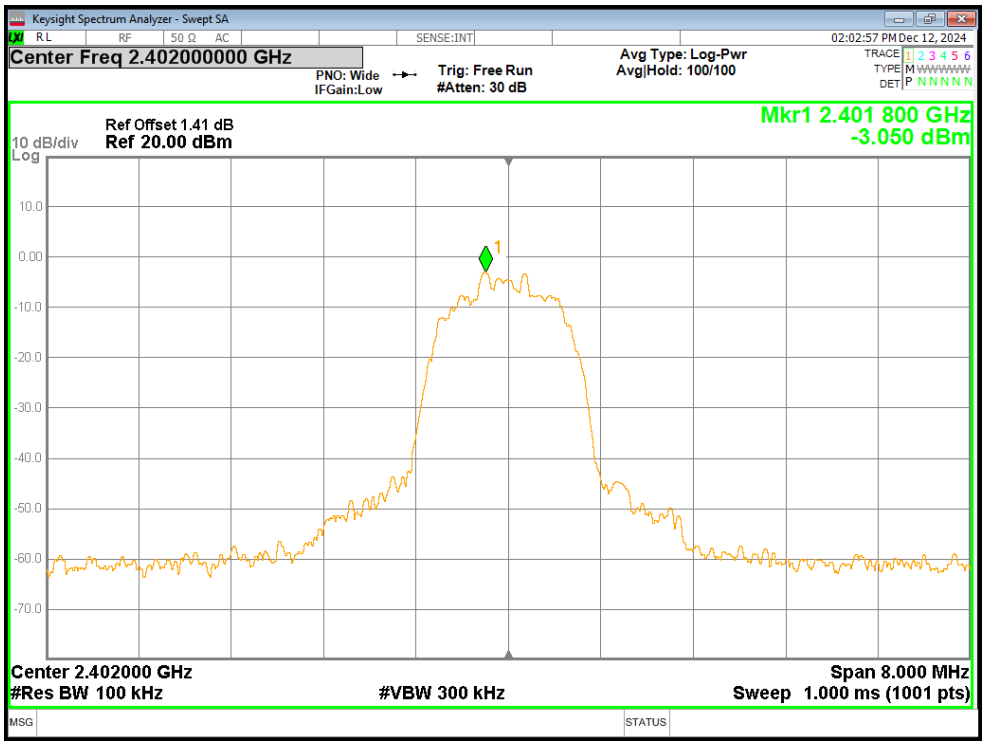
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



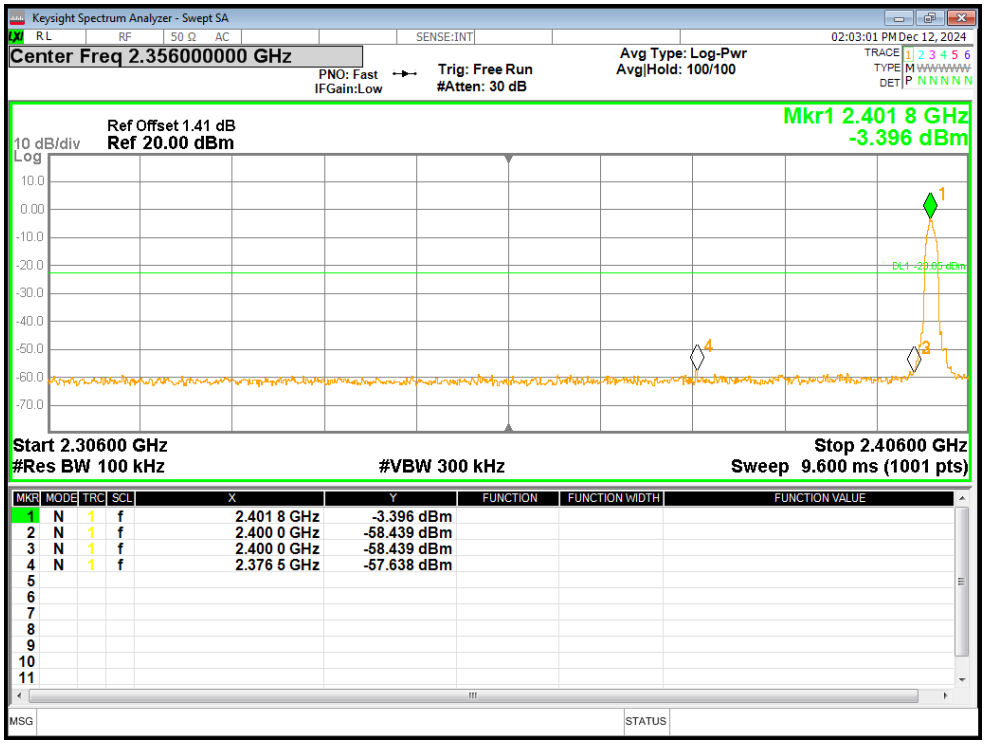
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



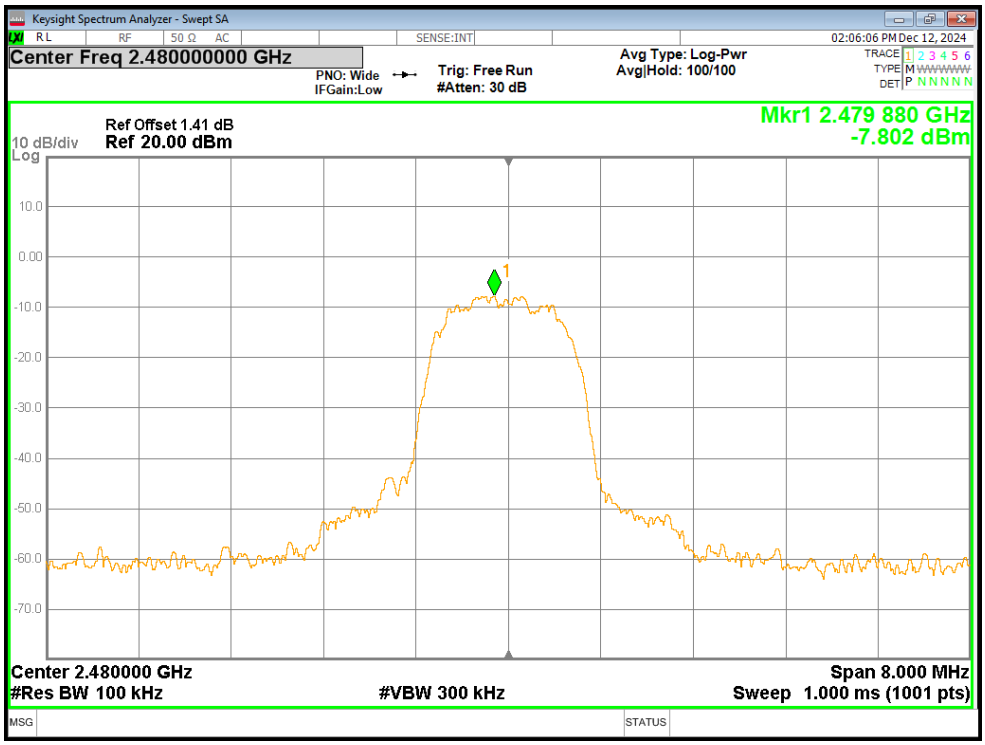
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



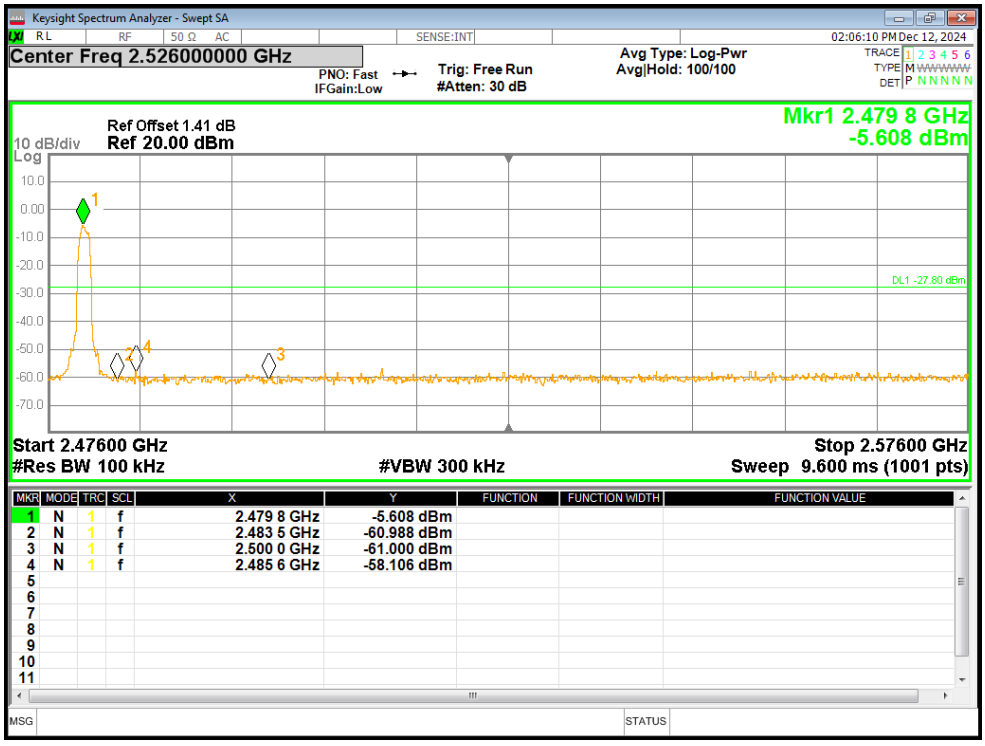
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission



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



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

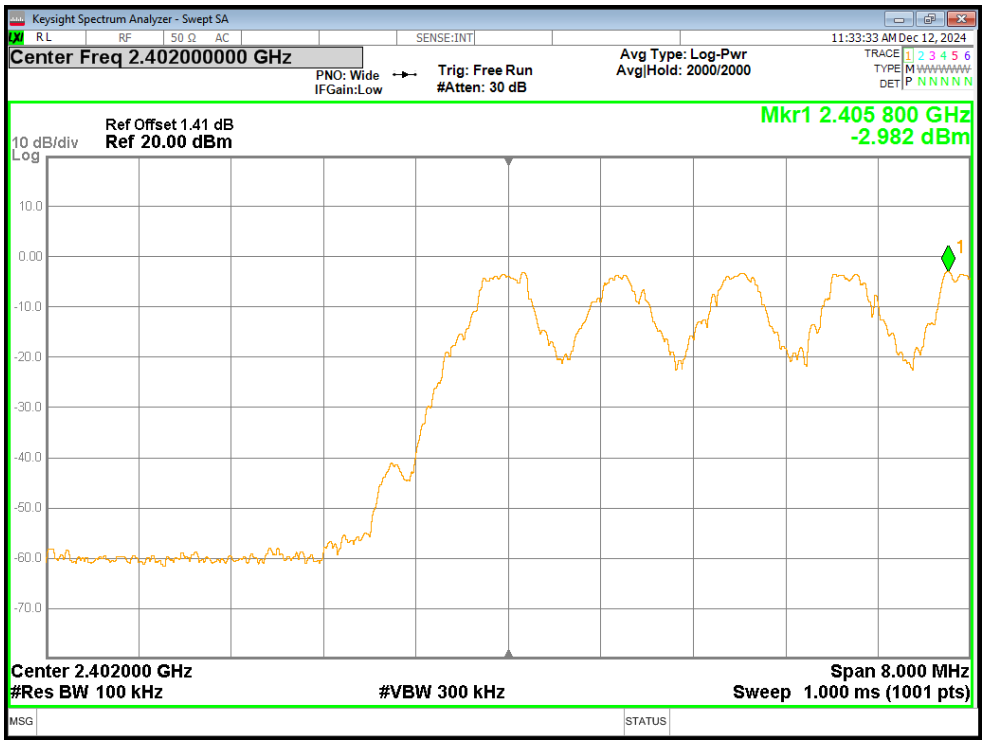


7.Band Edge(Hopping)

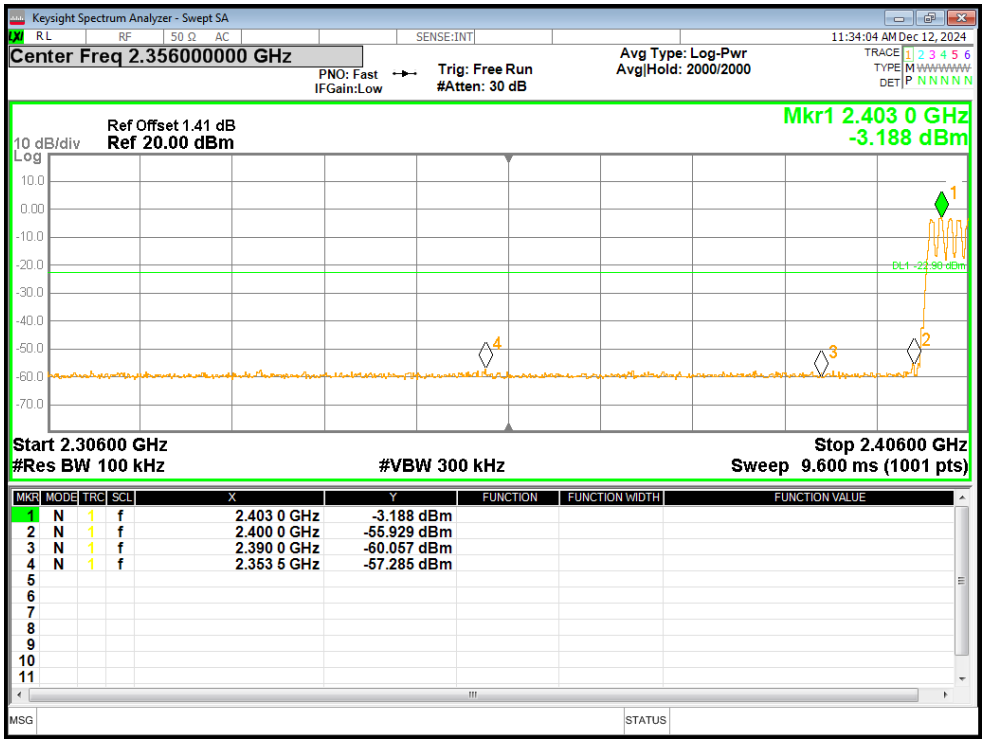
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-54.3	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-53.62	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-53.45	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-52.57	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-52.7	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-53.15	-20	Pass

Test Graphs

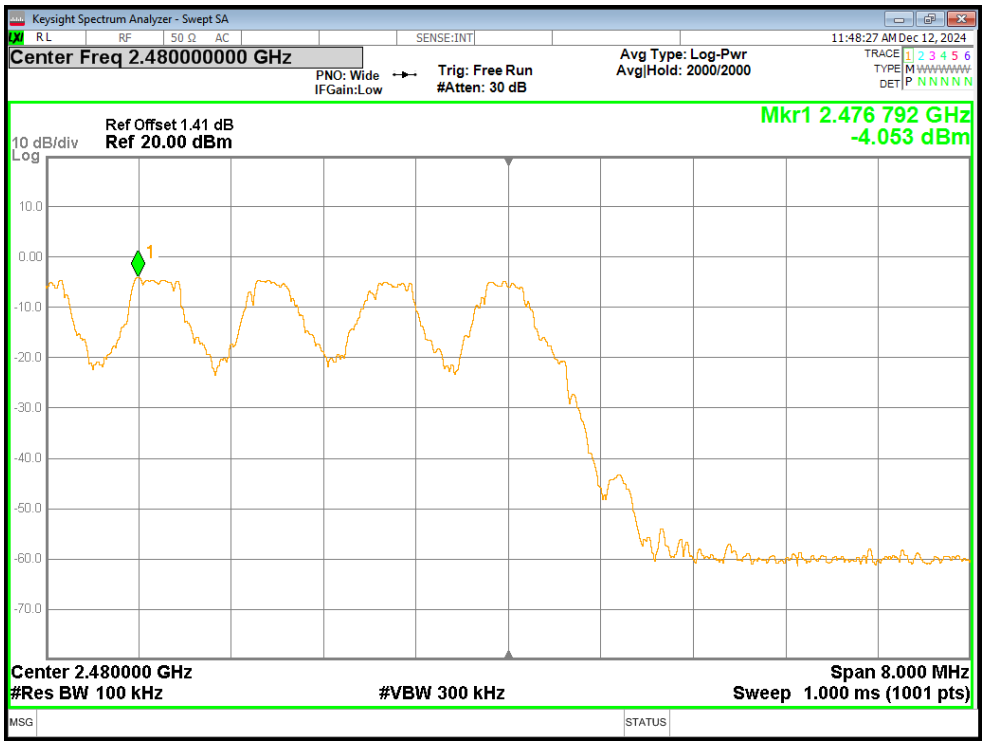
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref



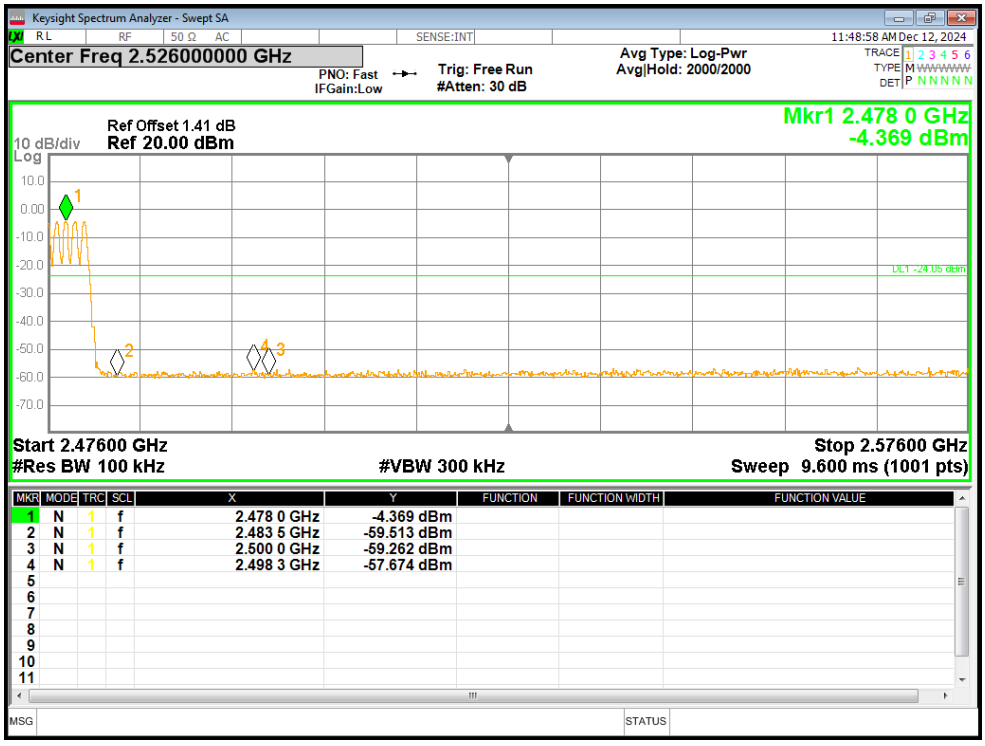
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



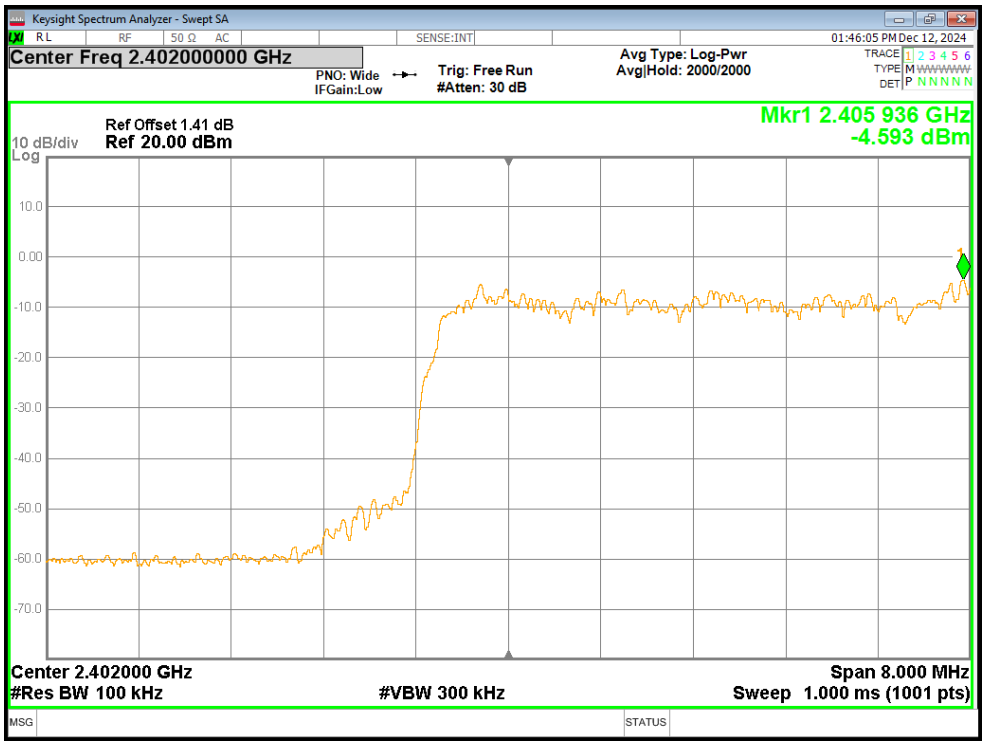
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



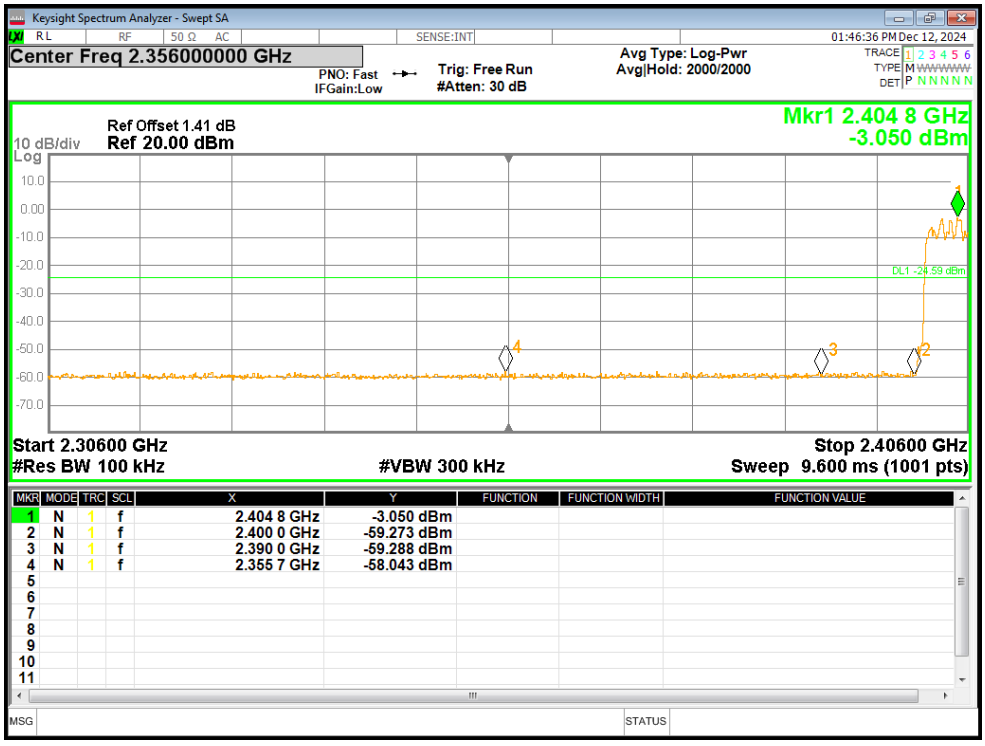
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



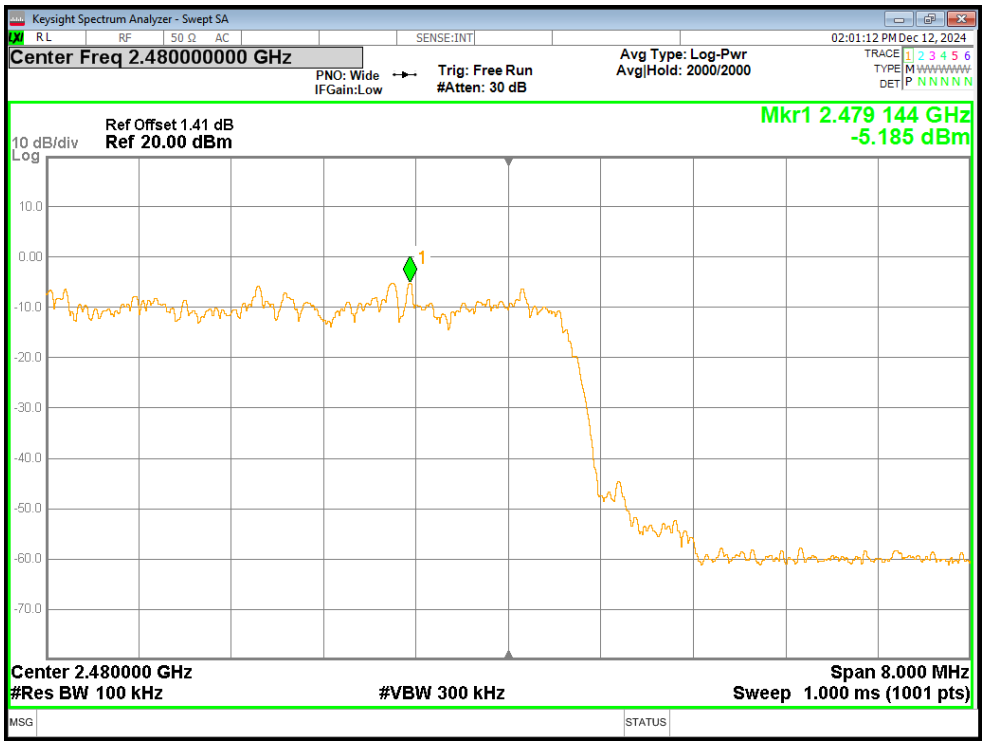
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



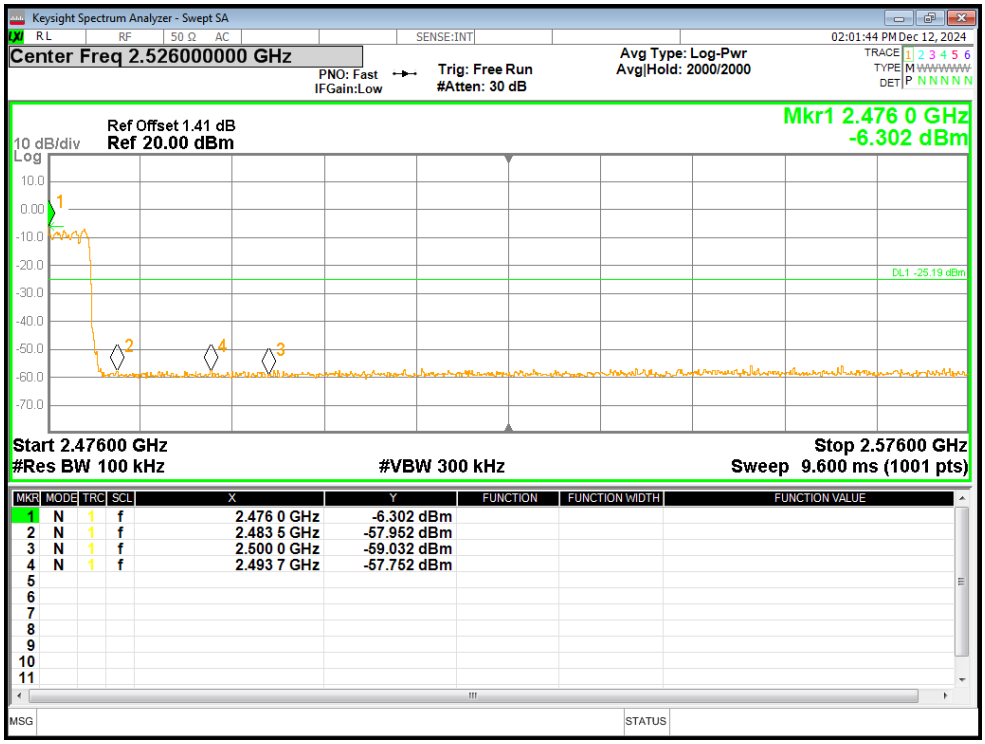
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission



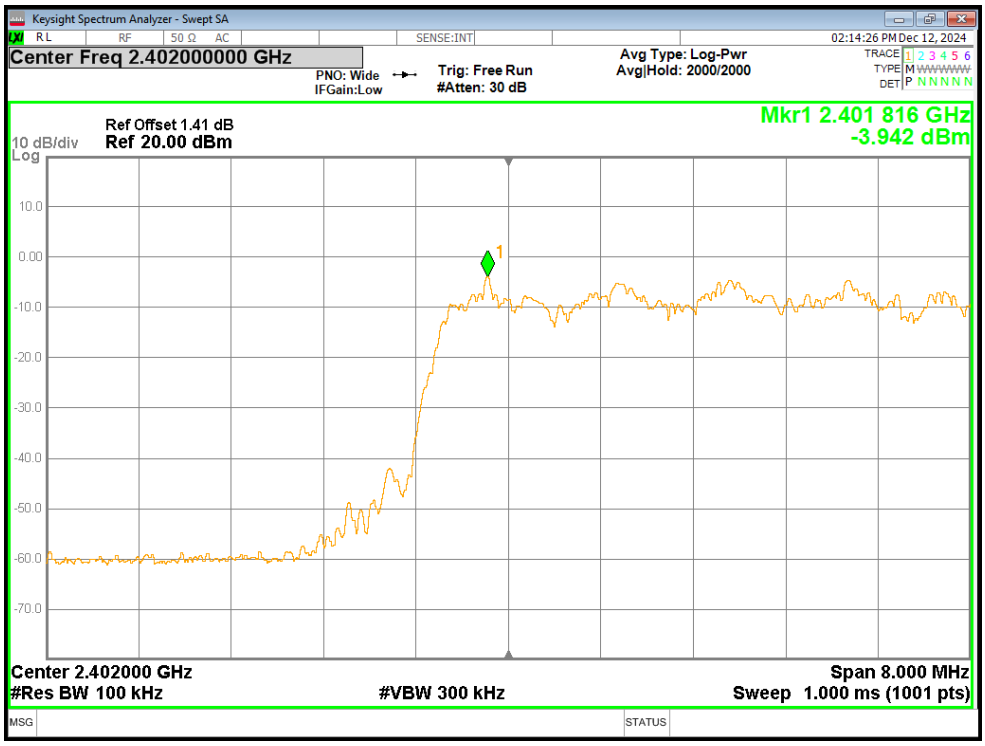
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



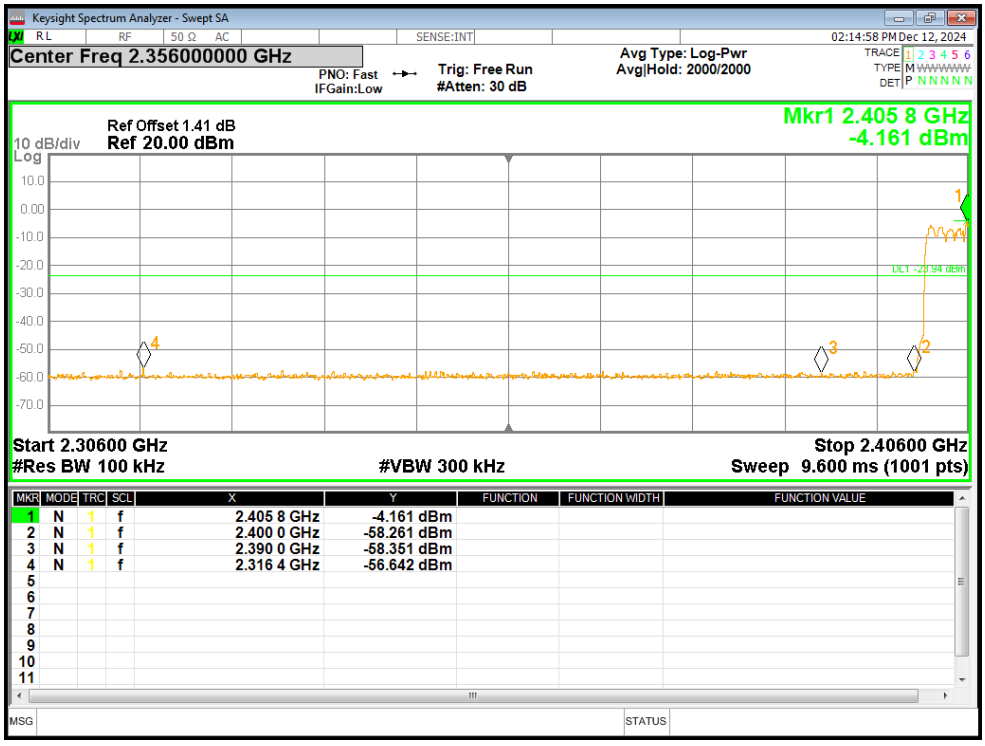
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission



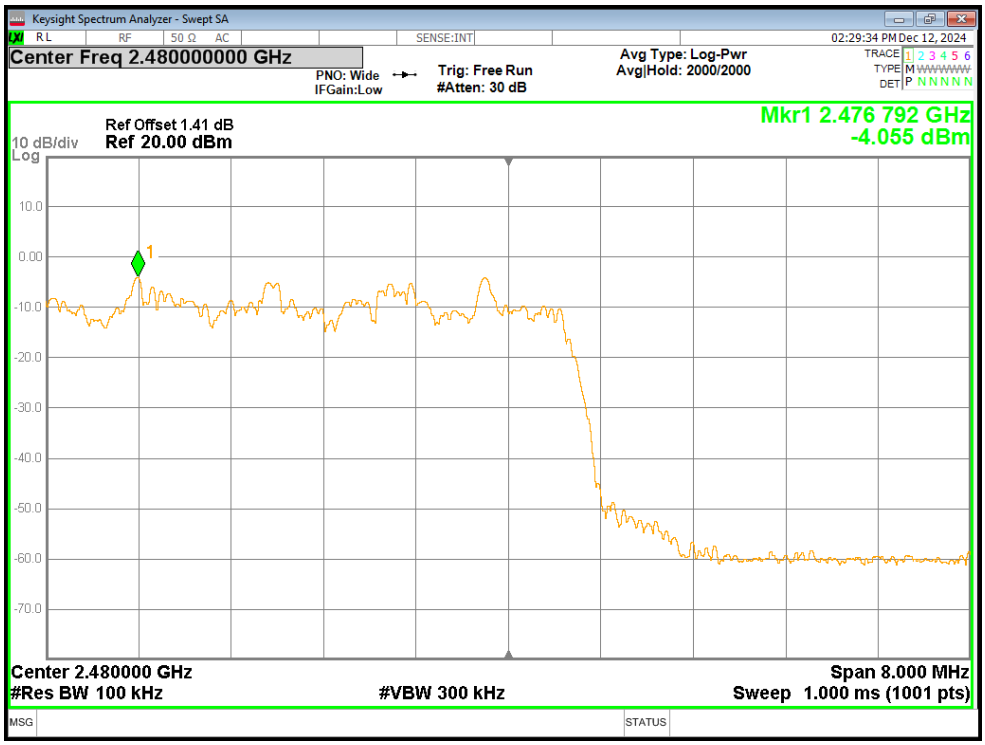
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



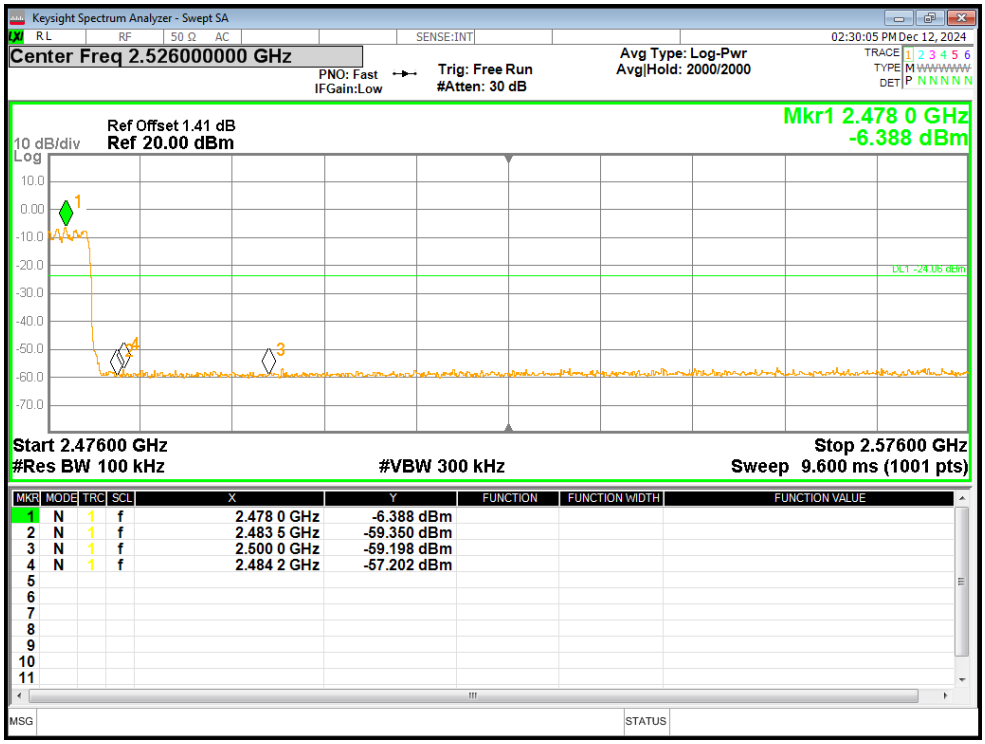
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission



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



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

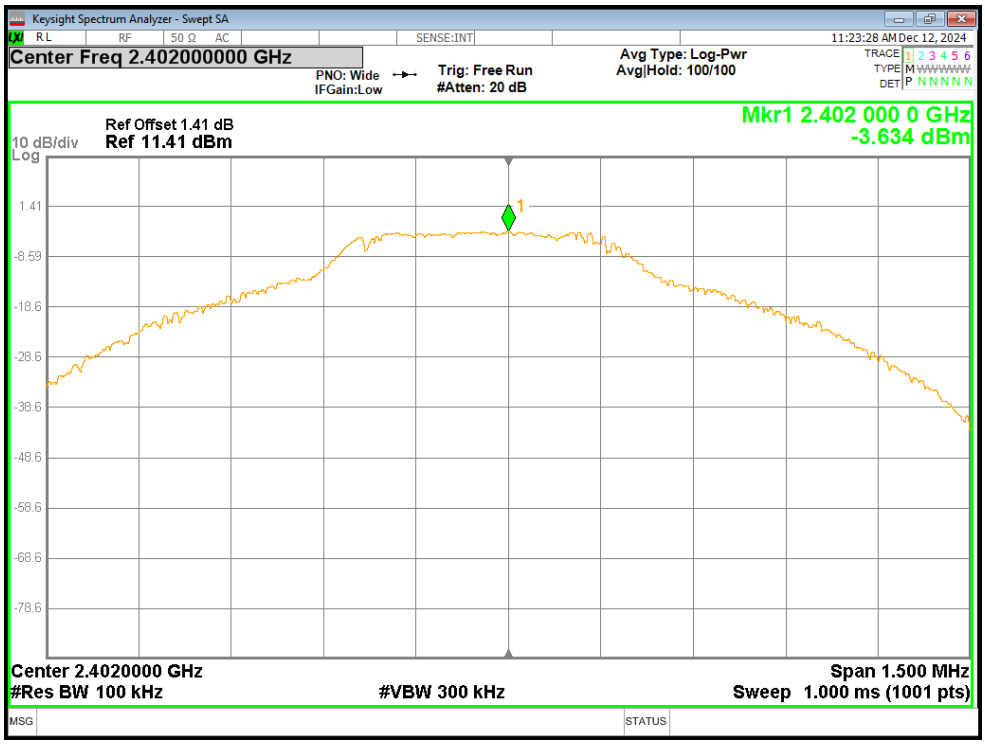


8.Conducted RF Spurious Emission

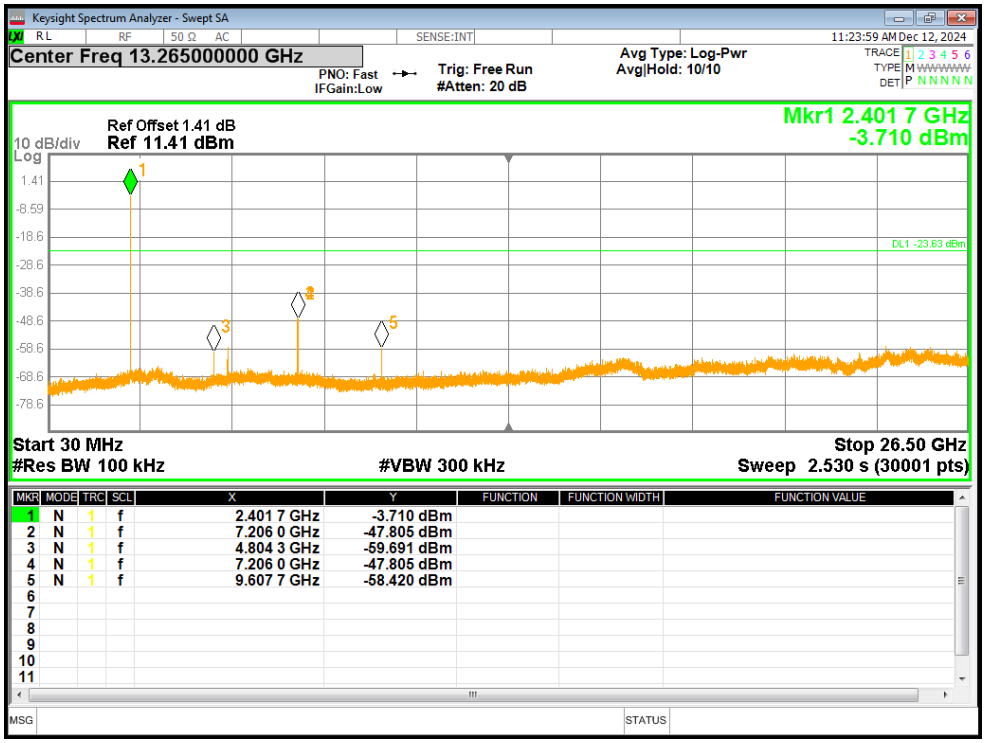
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-44.17	-20	Pass
NVNT	1-DH5	2441	Ant1	-47.53	-20	Pass
NVNT	1-DH5	2480	Ant1	-46.72	-20	Pass
NVNT	2-DH5	2402	Ant1	-28.76	-20	Pass
NVNT	2-DH5	2441	Ant1	-49.29	-20	Pass
NVNT	2-DH5	2480	Ant1	-45.92	-20	Pass
NVNT	3-DH5	2402	Ant1	-26.04	-20	Pass
NVNT	3-DH5	2441	Ant1	-50.21	-20	Pass
NVNT	3-DH5	2480	Ant1	-46.3	-20	Pass

Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref

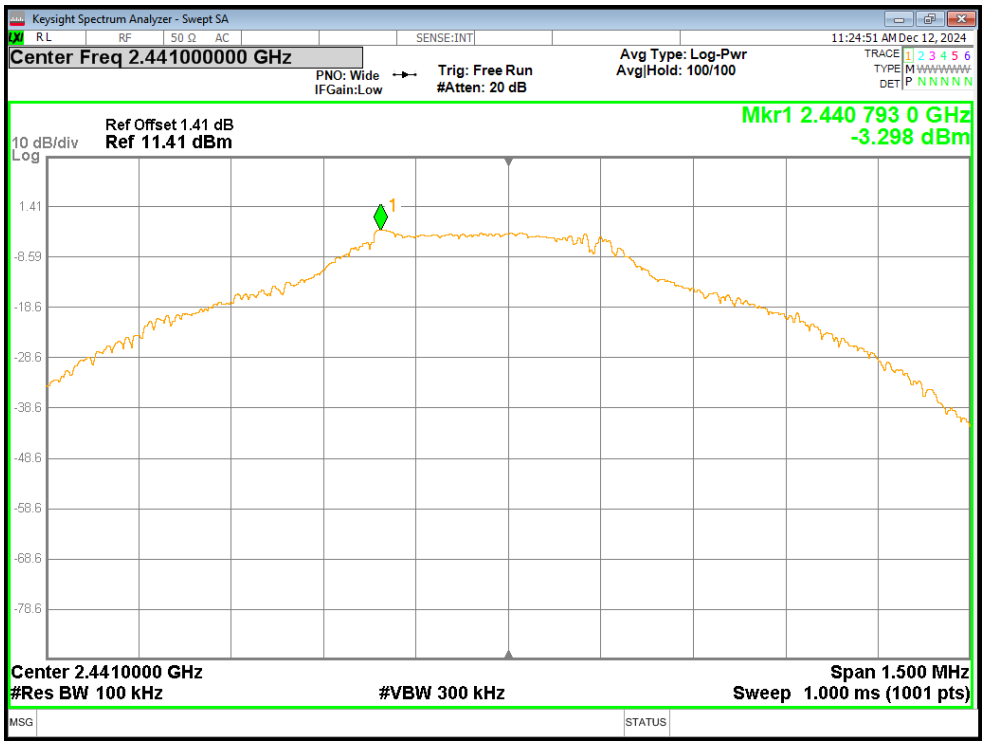


Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

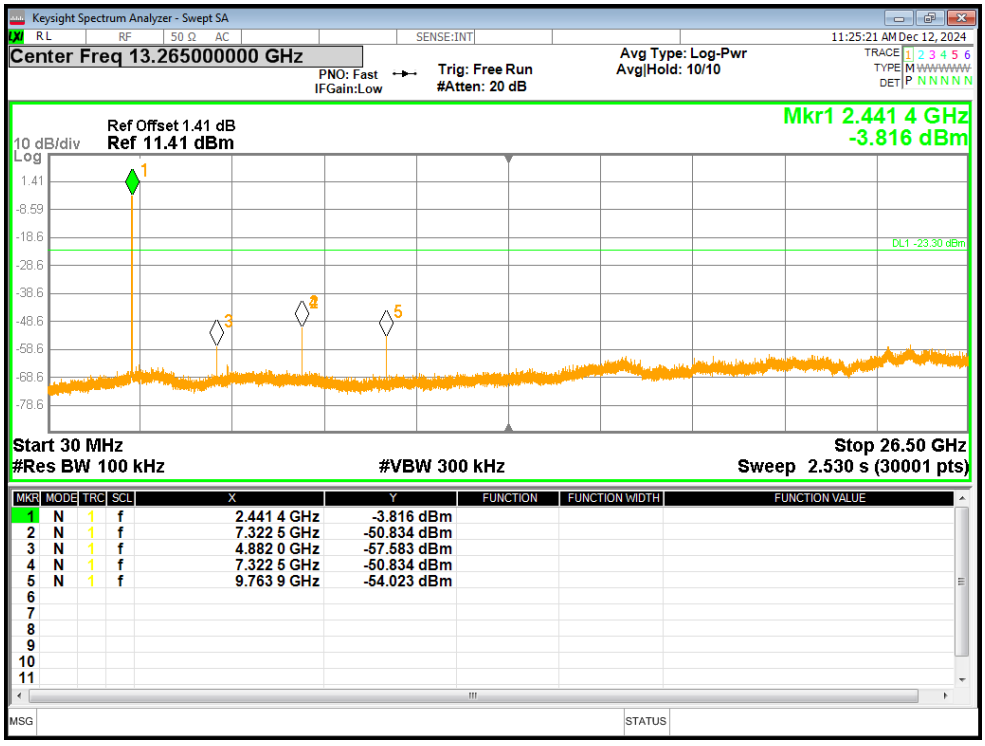


MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.401 7 GHz	-3.710 dBm			
2	N	1	f	7.206 0 GHz	-47.805 dBm			
3	N	1	f	4.804 3 GHz	-59.691 dBm			
4	N	1	f	7.206 0 GHz	-47.805 dBm			
5	N	1	f	9.607 7 GHz	-58.420 dBm			
6								
7								
8								
9								
10								
11								

Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

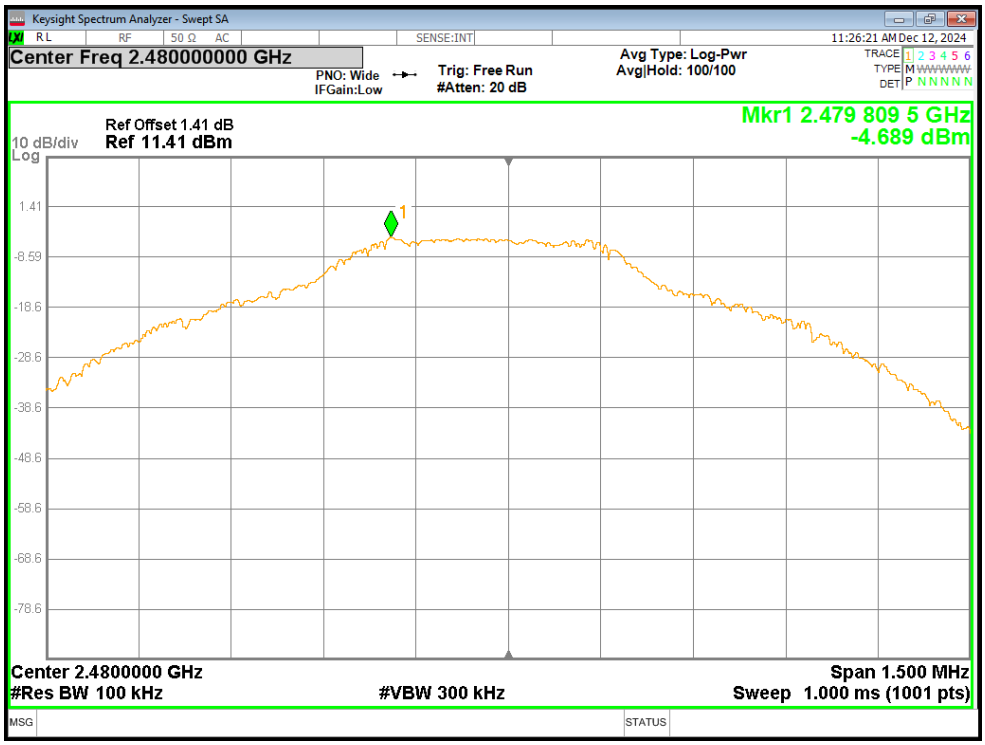


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

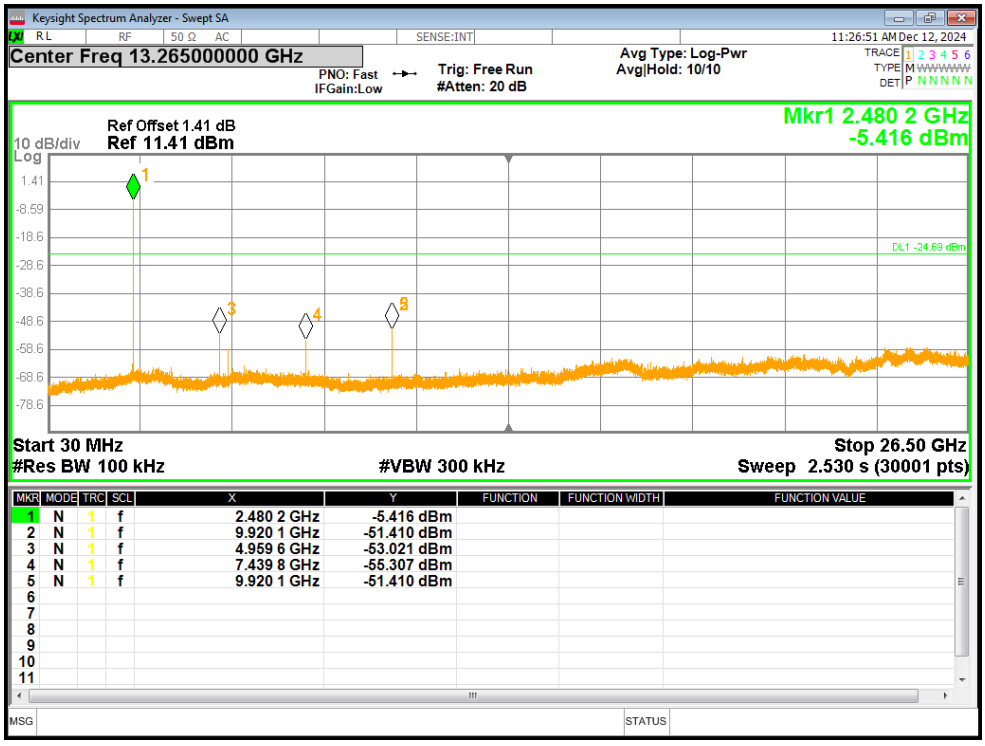


MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.441 4 GHz	-3.816 dBm			
2	N	1	f	7.322 5 GHz	-50.834 dBm			
3	N	1	f	4.882 0 GHz	-57.583 dBm			
4	N	1	f	7.322 5 GHz	-50.834 dBm			
5	N	1	f	9.763 9 GHz	-54.023 dBm			
6								
7								
8								
9								
10								
11								

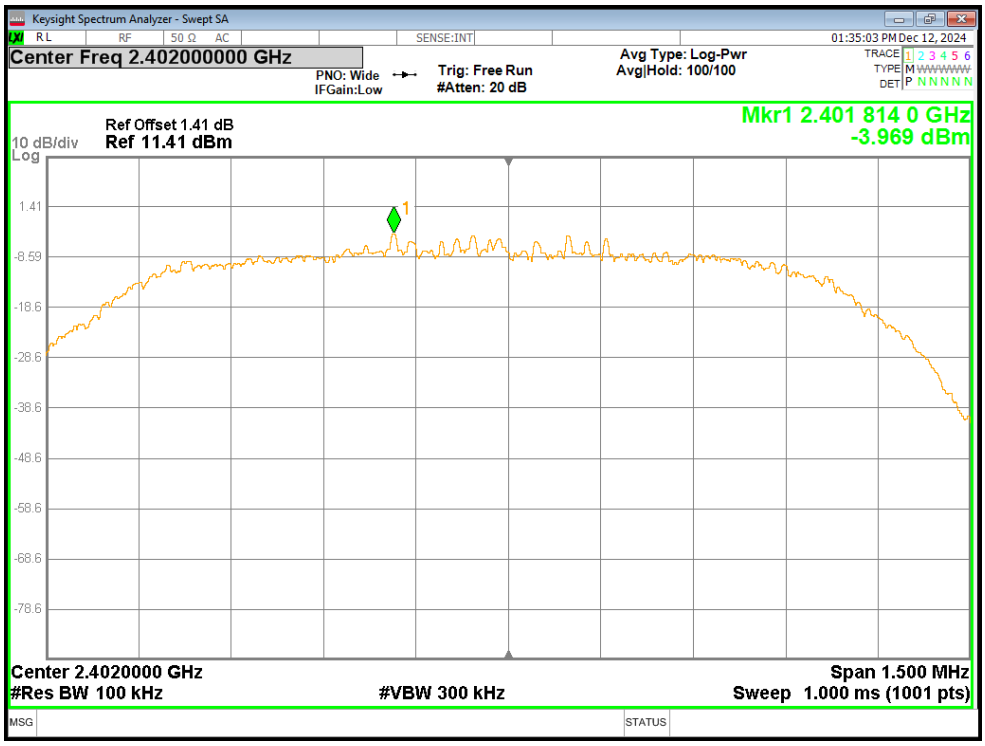
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



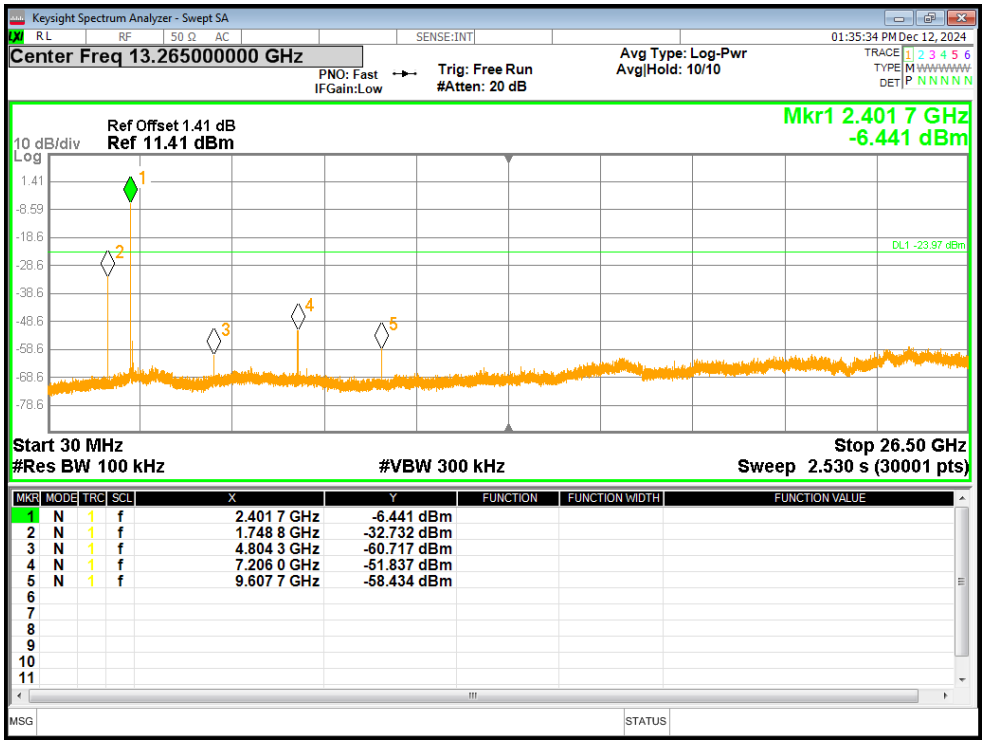
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



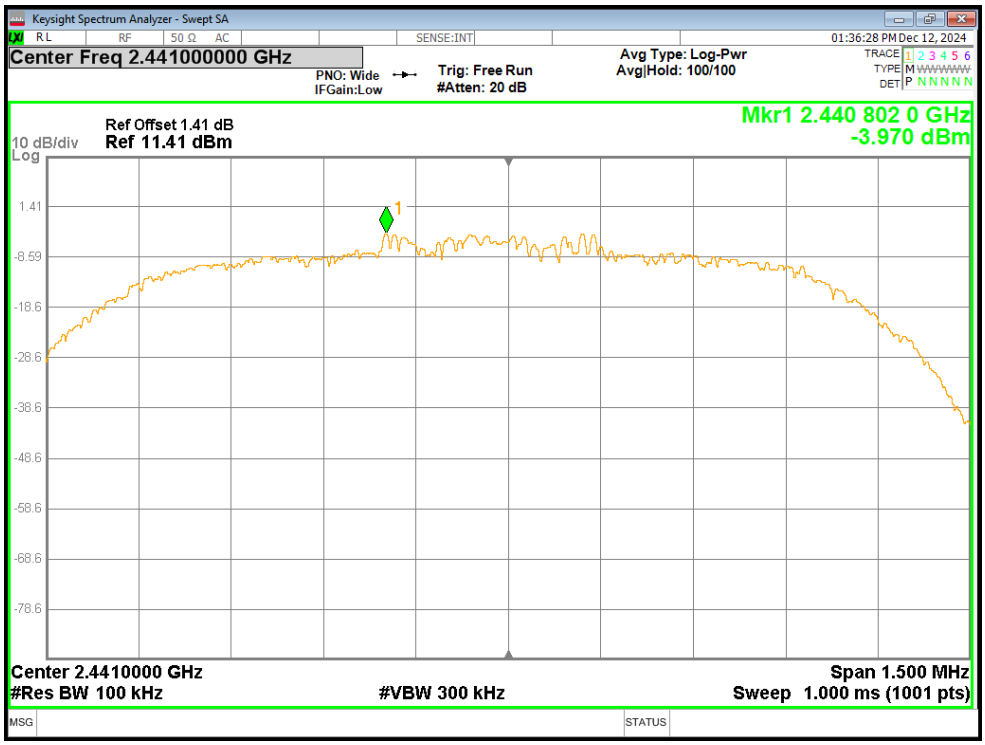
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



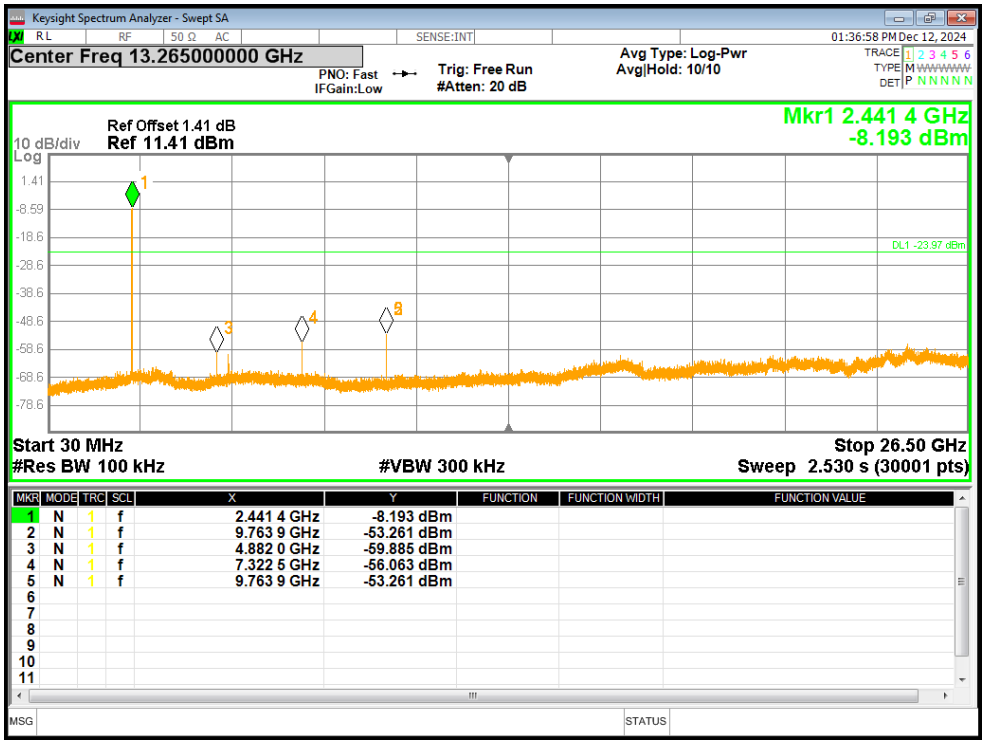
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



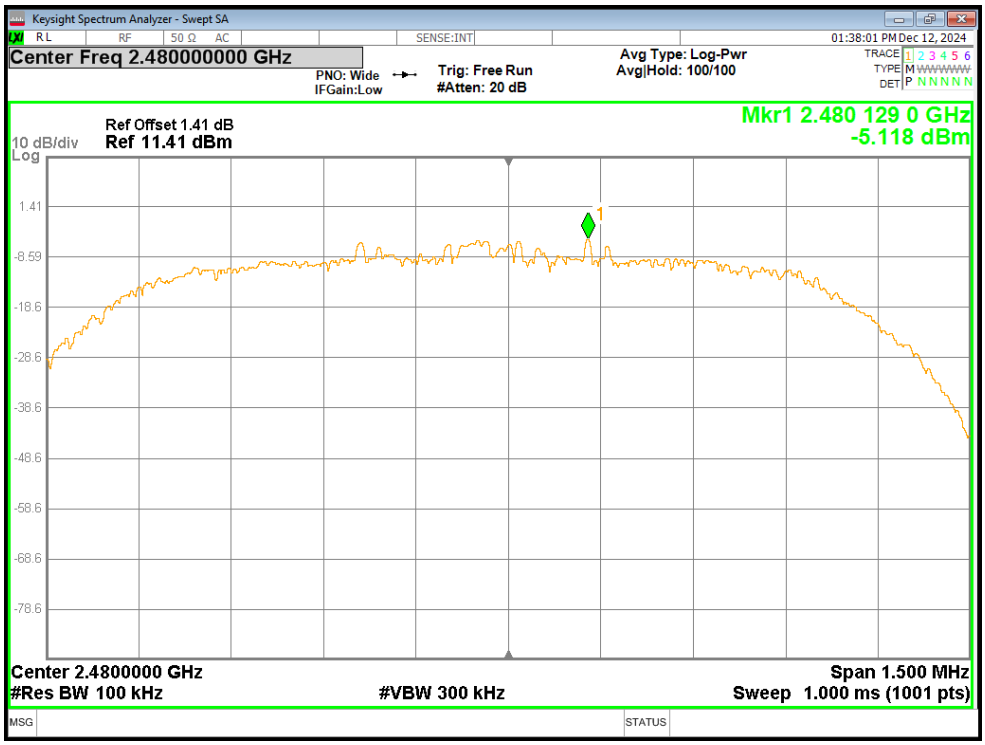
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



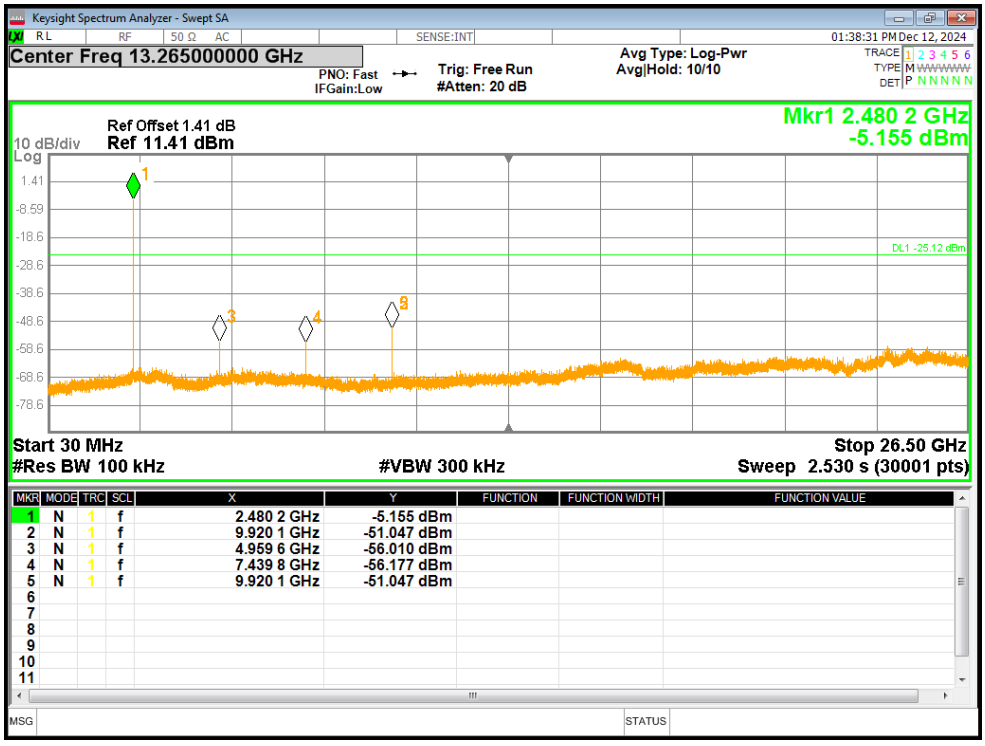
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref

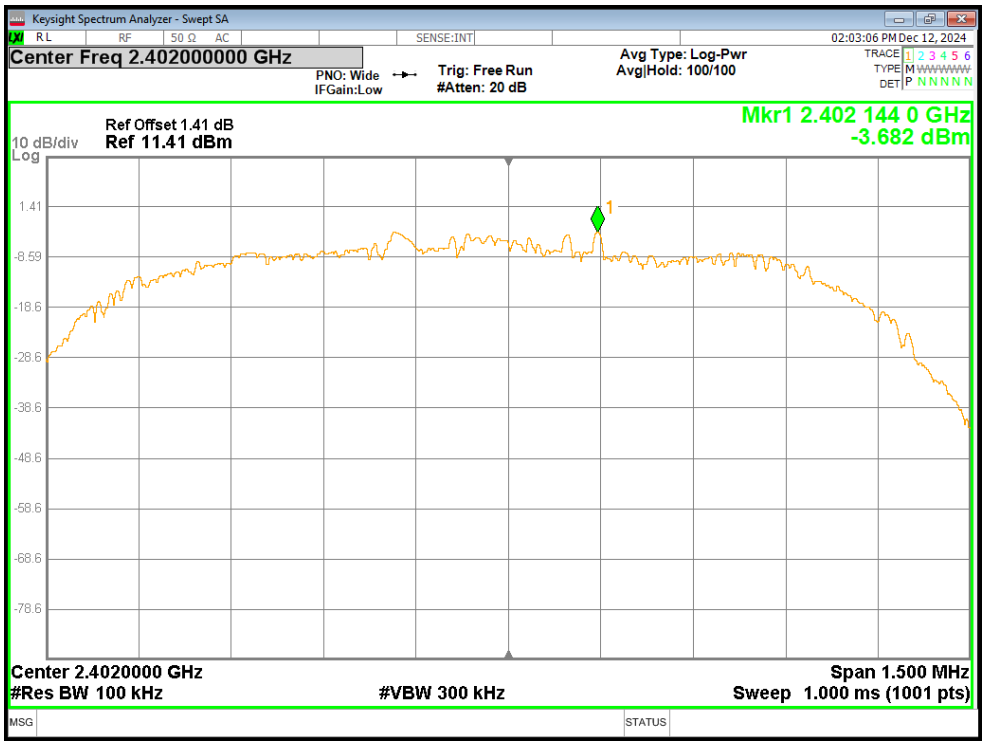


Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission

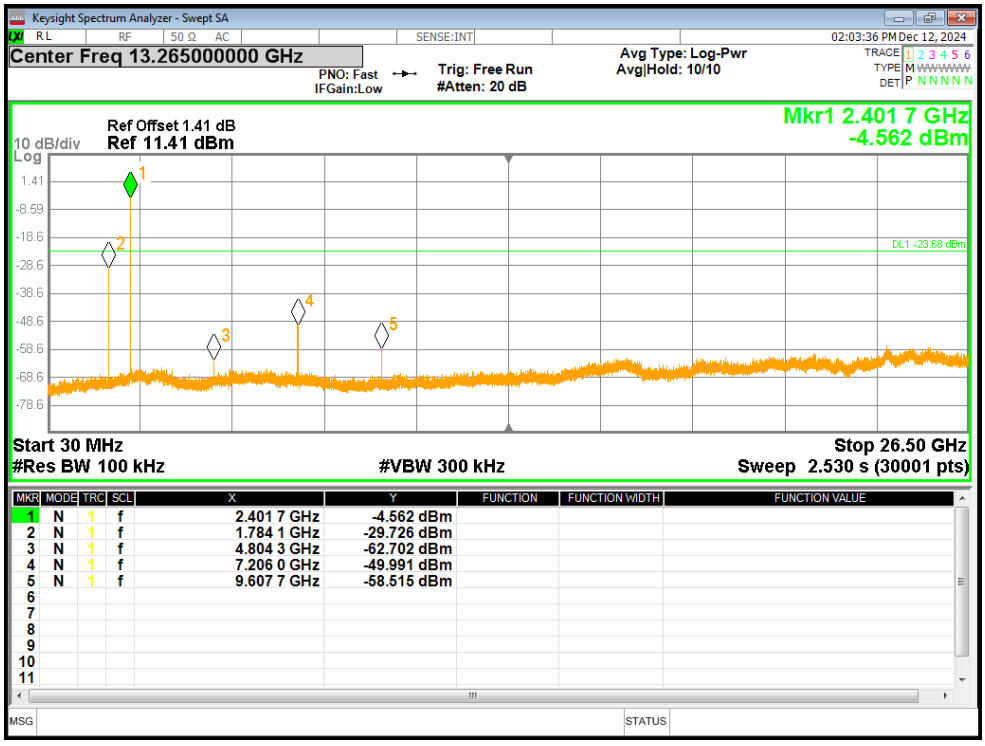


MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.480 2 GHz	-5.155 dBm			
2	N	1	f	9.920 1 GHz	-51.047 dBm			
3	N	1	f	4.959 6 GHz	-56.010 dBm			
4	N	1	f	7.439 8 GHz	-56.177 dBm			
5	N	1	f	9.920 1 GHz	-51.047 dBm			
6								
7								
8								
9								
10								
11								

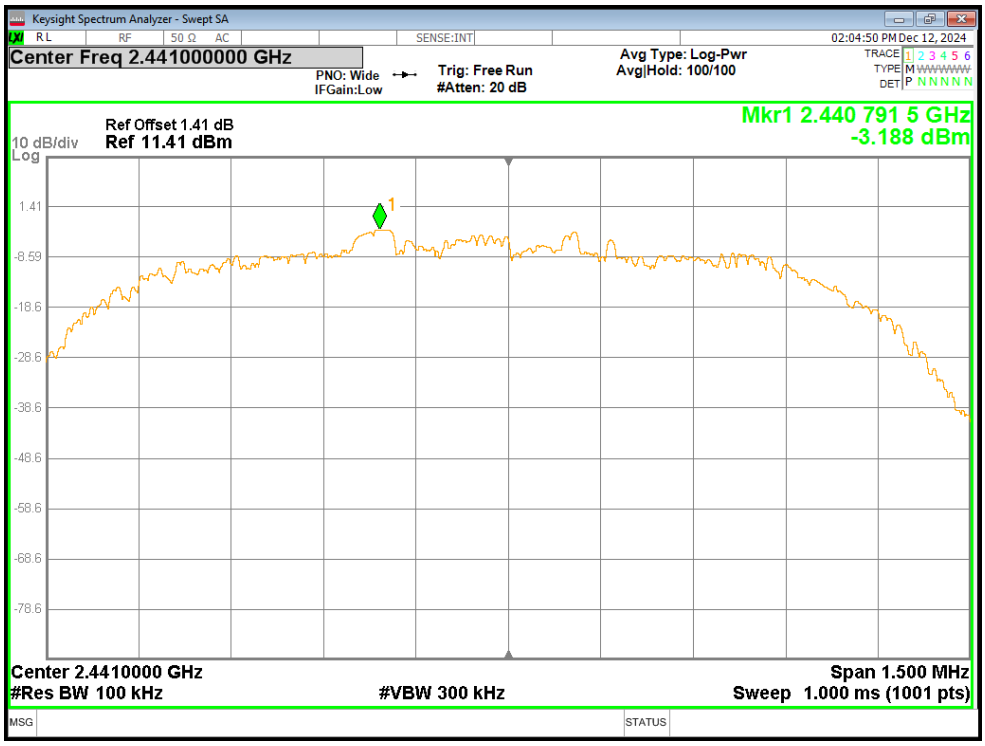
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



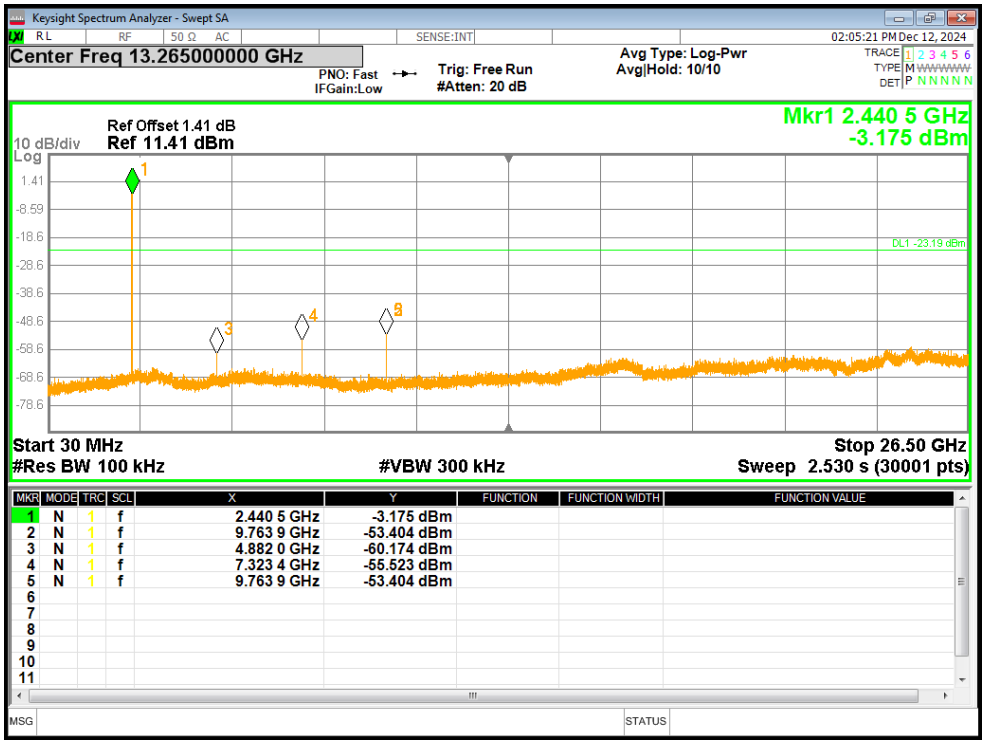
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
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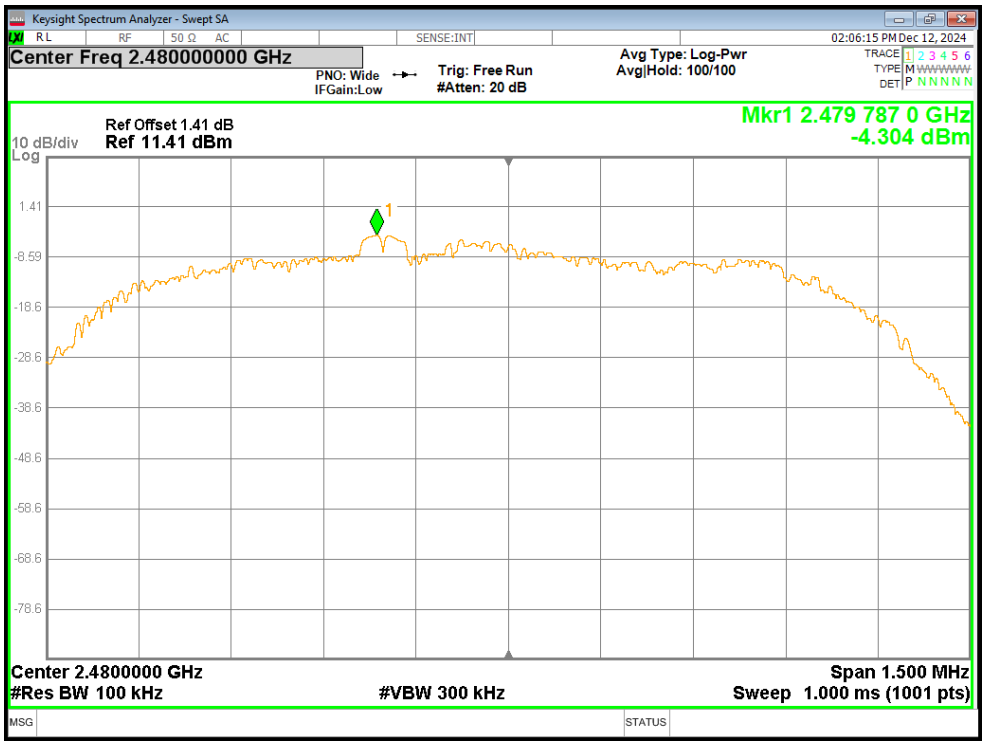
2	N	1	f	9.763 9 GHz	-53.404 dBm			
3	N	1	f	4.882 0 GHz	-60.174 dBm			
4	N	1	f	7.323 4 GHz	-55.523 dBm			
5	N	1	f	9.763 9 GHz	-53.404 dBm			
6								
7								
8								
9								
10								
11								

Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission