Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Deep Care Isa Pro

Test Model: DC-G032025H00201

Environmental Conditions

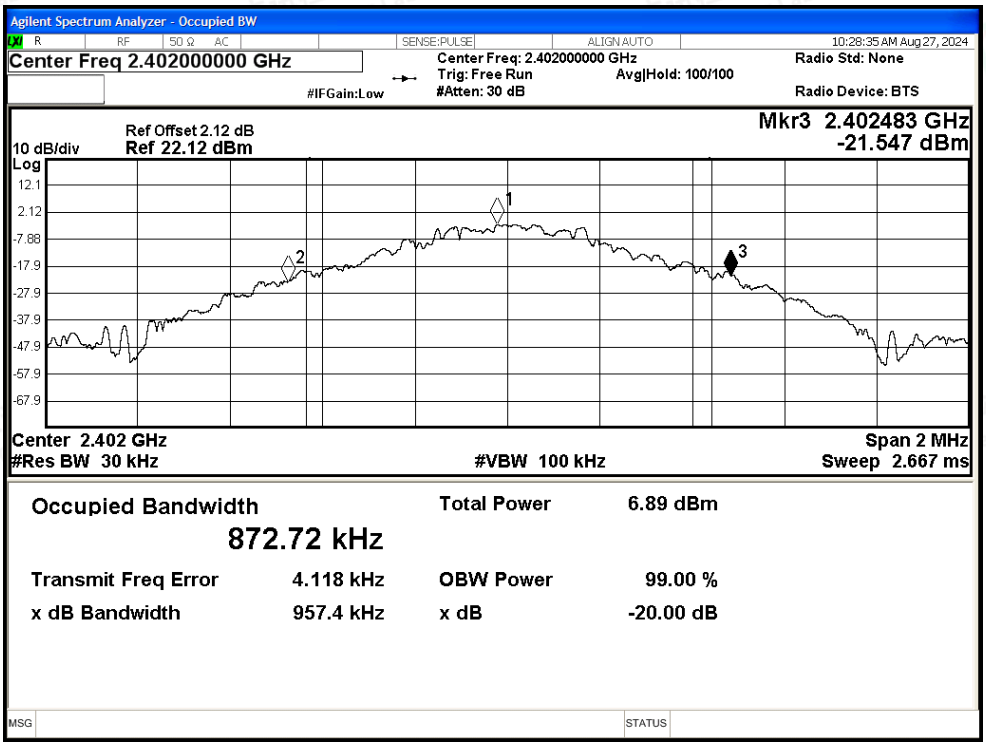
Temperature:	23.8° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Can Kun
Supervised by:	Nick Peng

A.1 -20dB Bandwidth

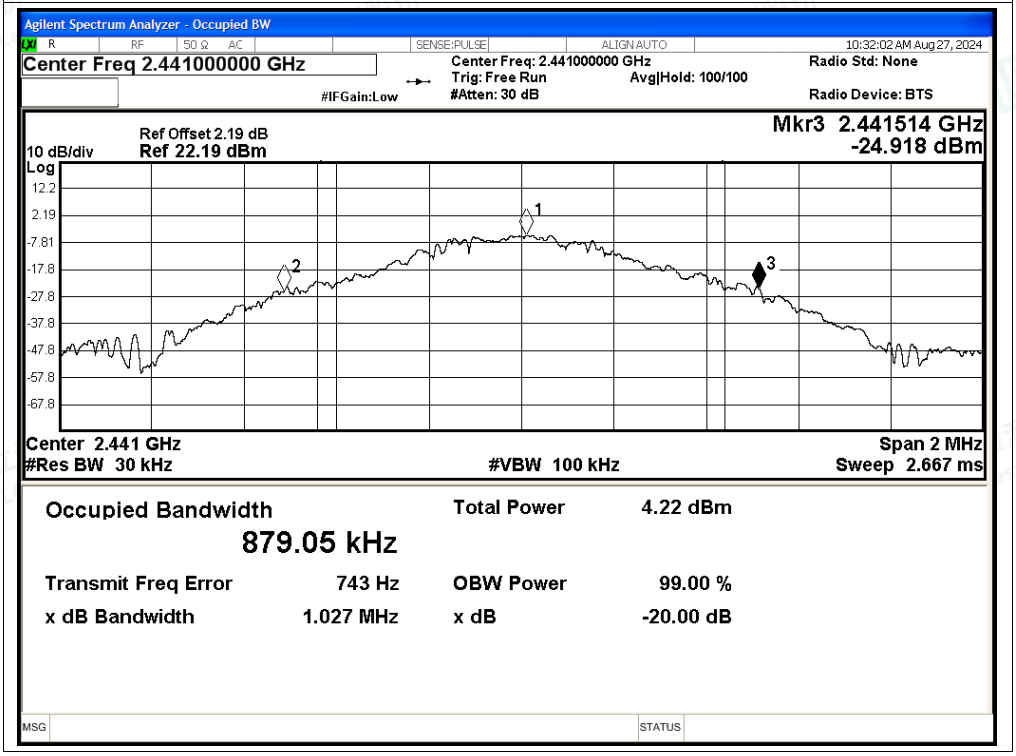
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.957	N/A	Pass
NVNT	1-DH5	2441	Ant1	1.027	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.956	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.32	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.284	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.287	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.303	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.289	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.301	N/A	Pass

Test Graphs

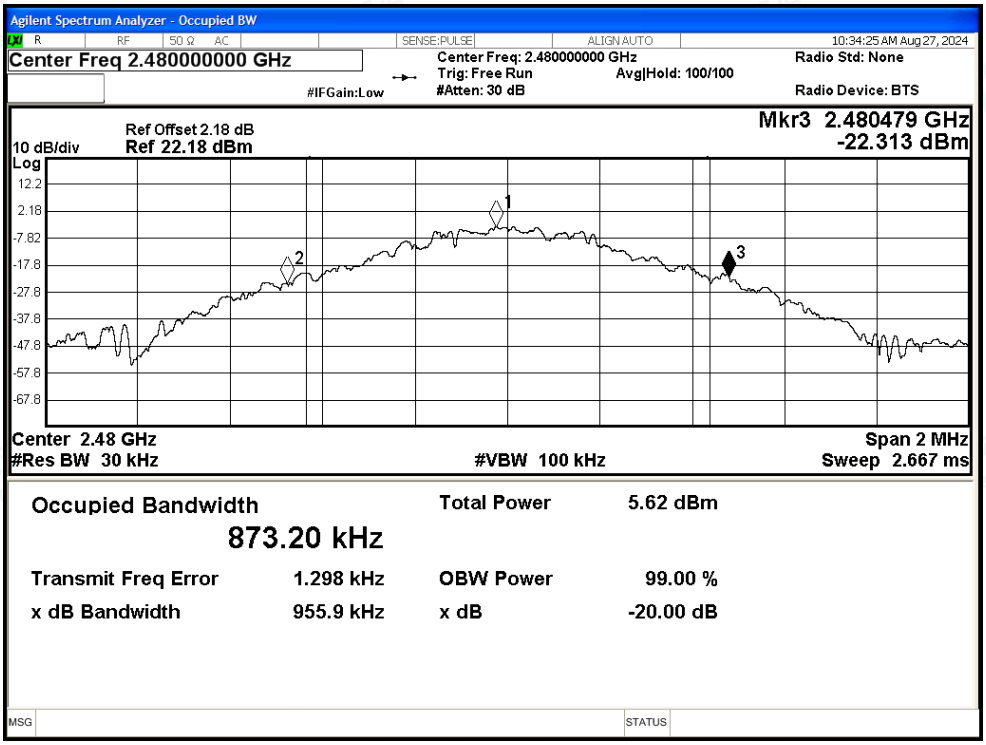
-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



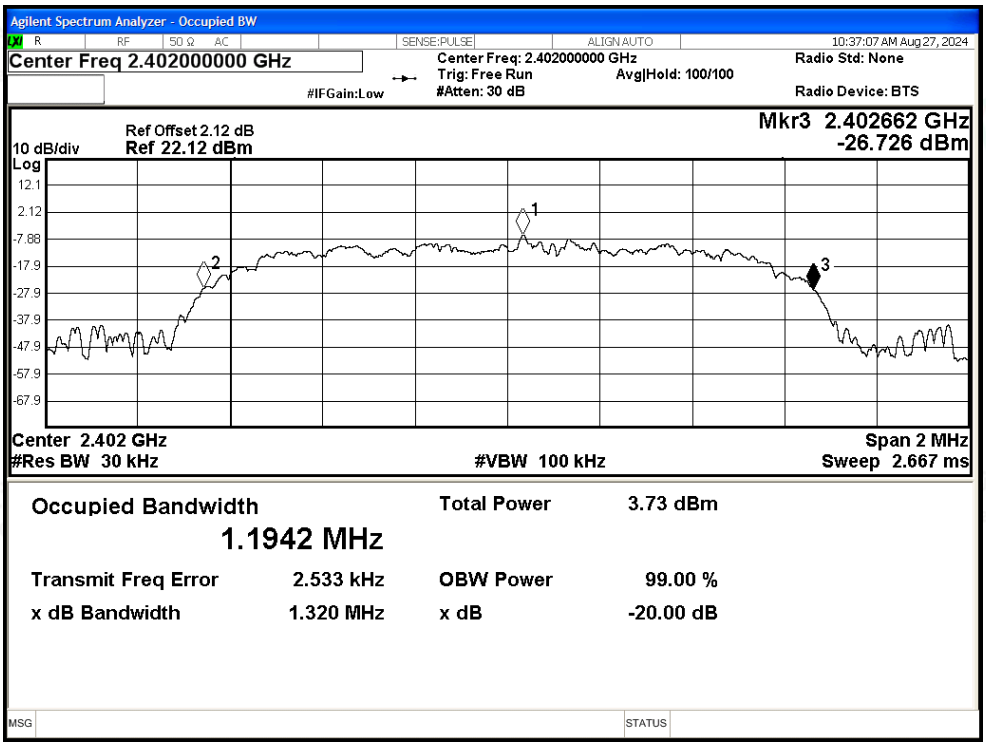
-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



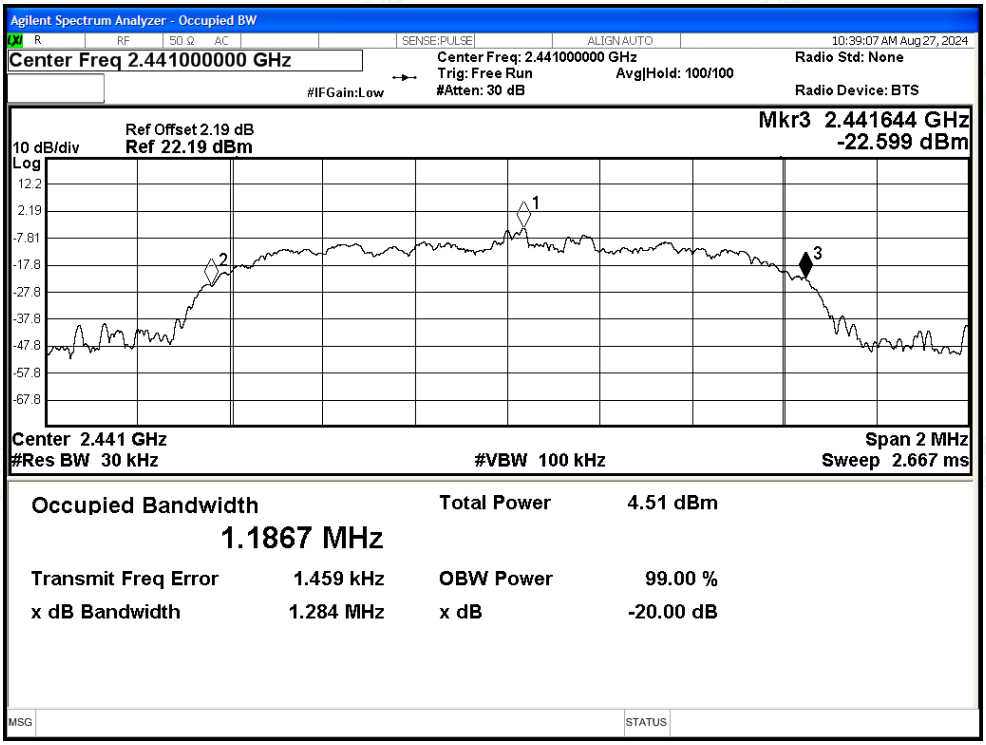
-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



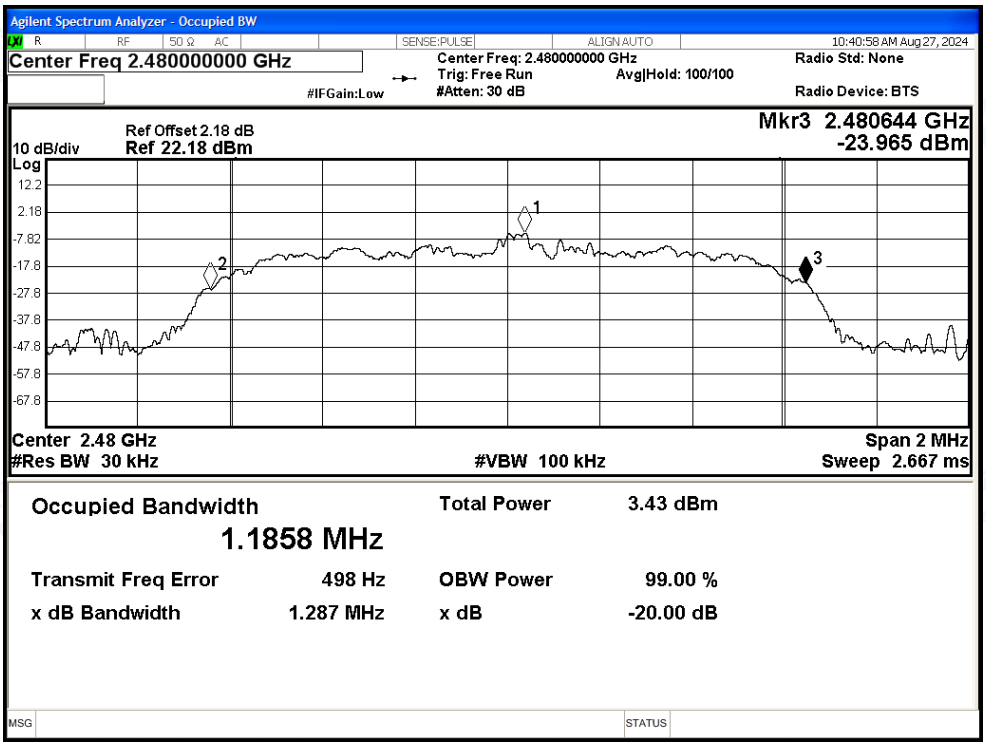
-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



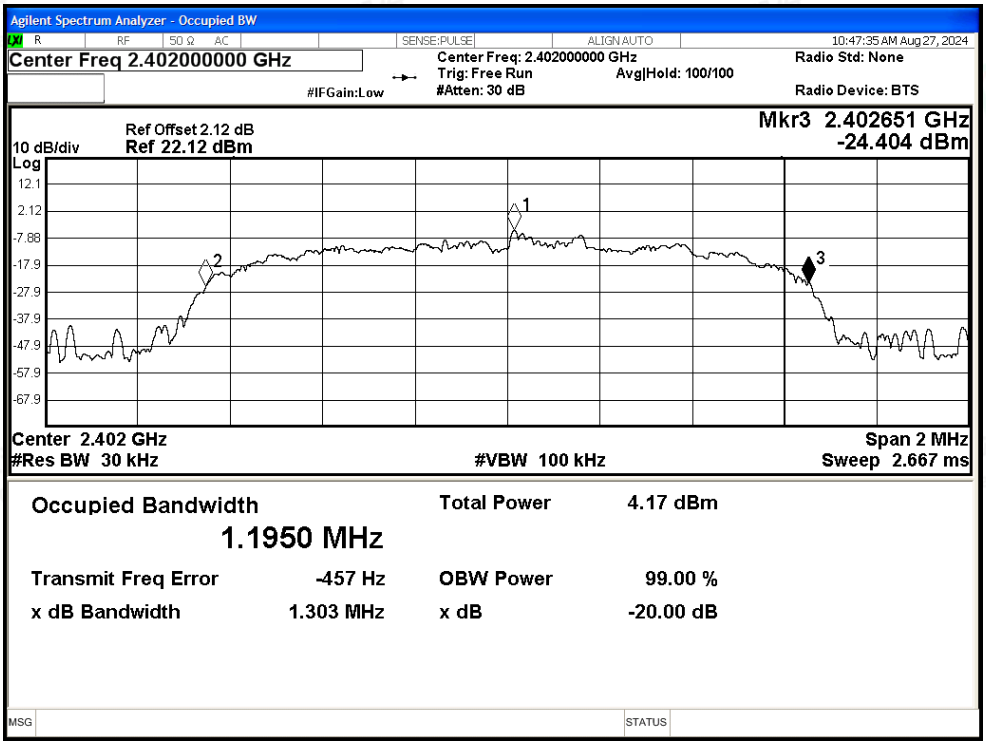
-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



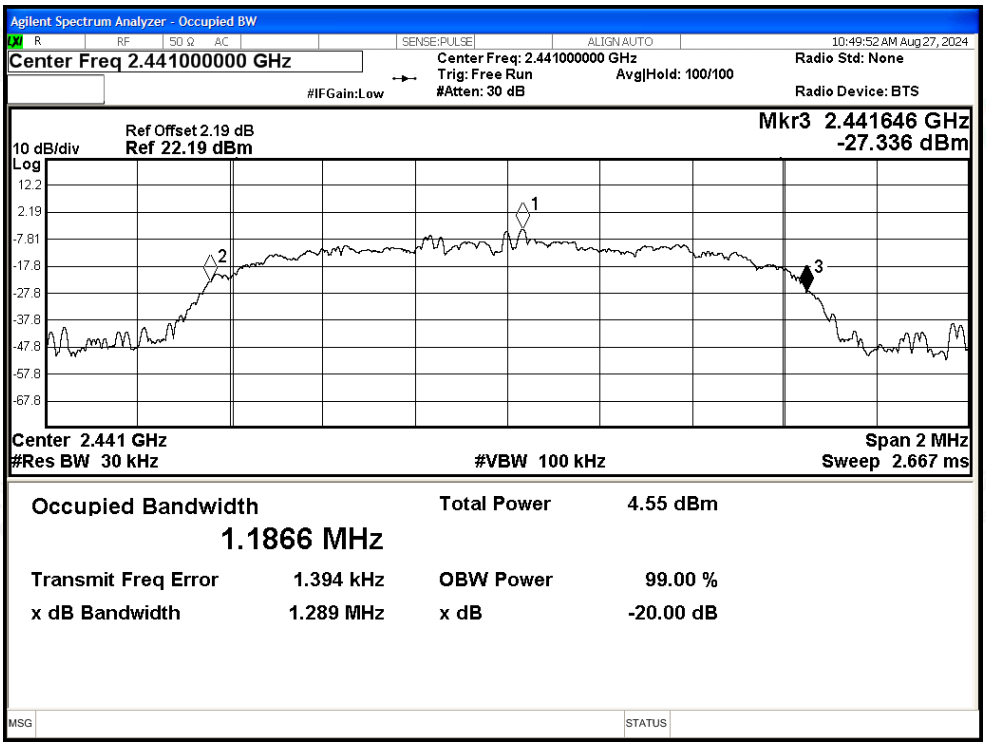
-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1



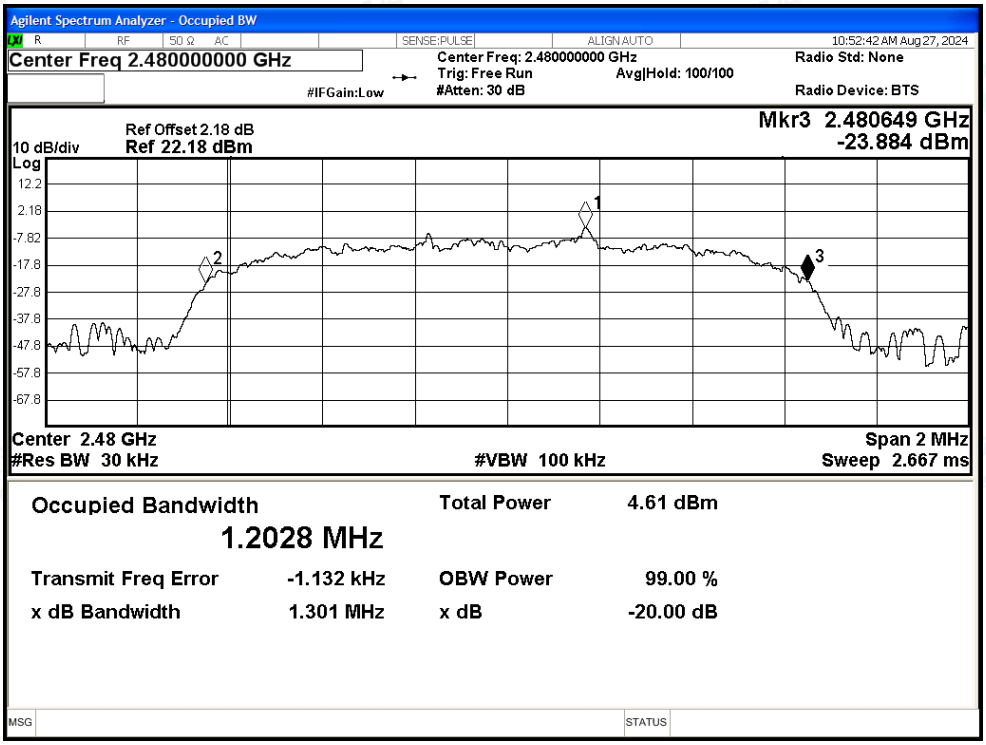
-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1

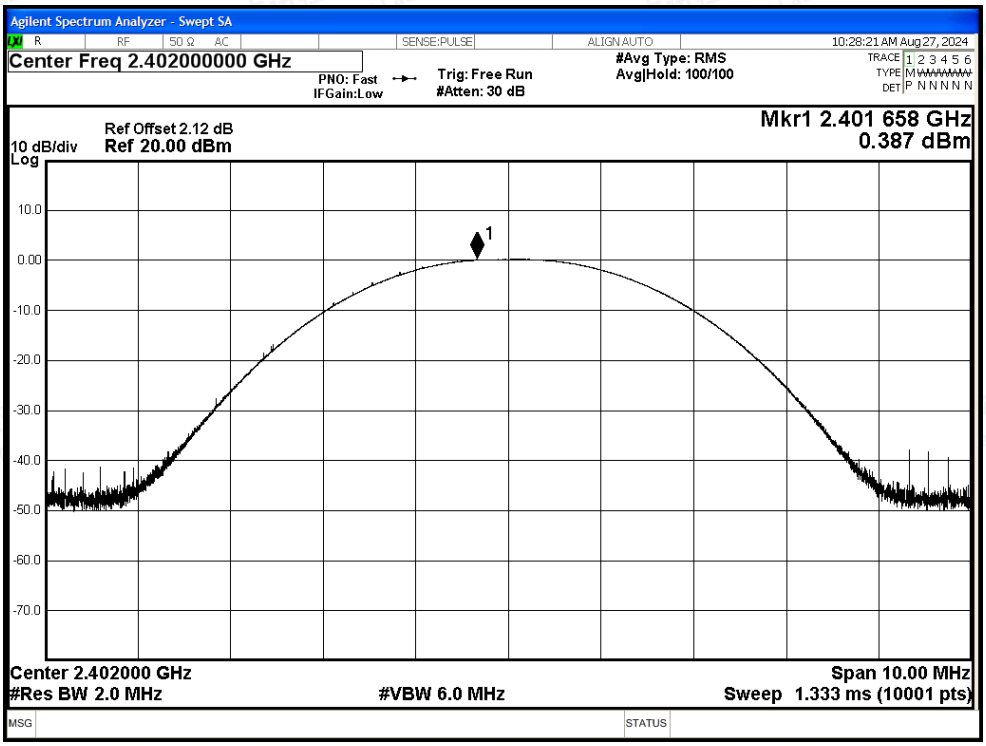


A.2 Maximum Peak Conducted Output Power

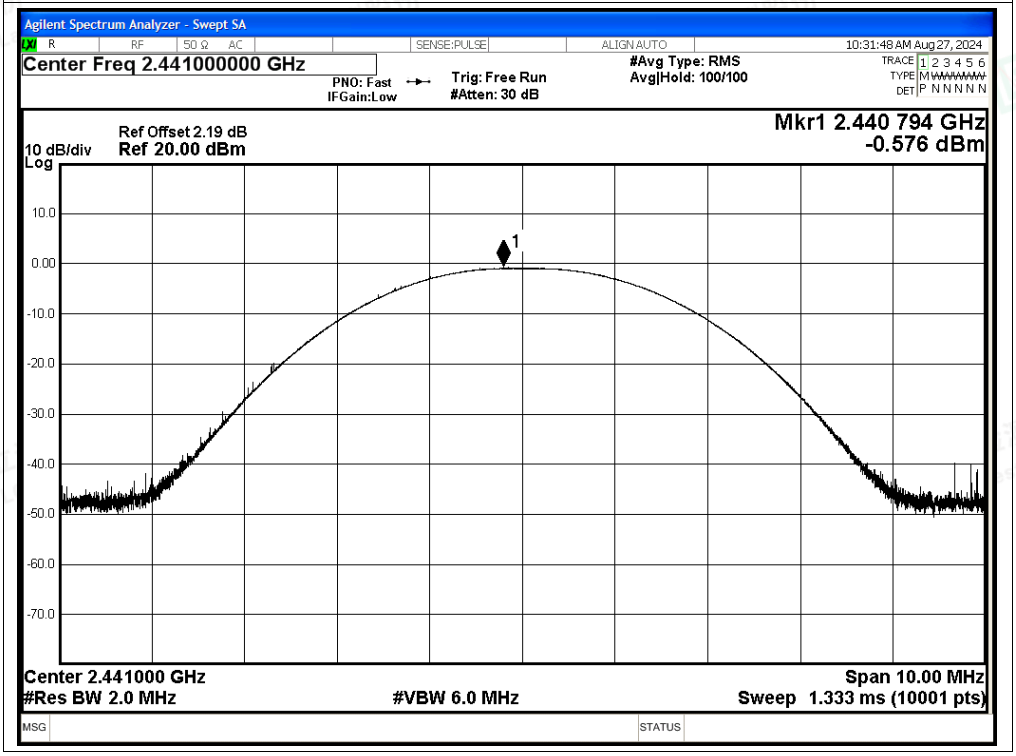
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	0.39	21	Pass
NVNT	1-DH5	2441	Ant1	-0.58	21	Pass
NVNT	1-DH5	2480	Ant1	-0.5	21	Pass
NVNT	2-DH5	2402	Ant1	0.08	21	Pass
NVNT	2-DH5	2441	Ant1	0.26	21	Pass
NVNT	2-DH5	2480	Ant1	-1	21	Pass
NVNT	3-DH5	2402	Ant1	0.25	21	Pass
NVNT	3-DH5	2441	Ant1	0.61	21	Pass
NVNT	3-DH5	2480	Ant1	0.69	21	Pass

Test Graphs

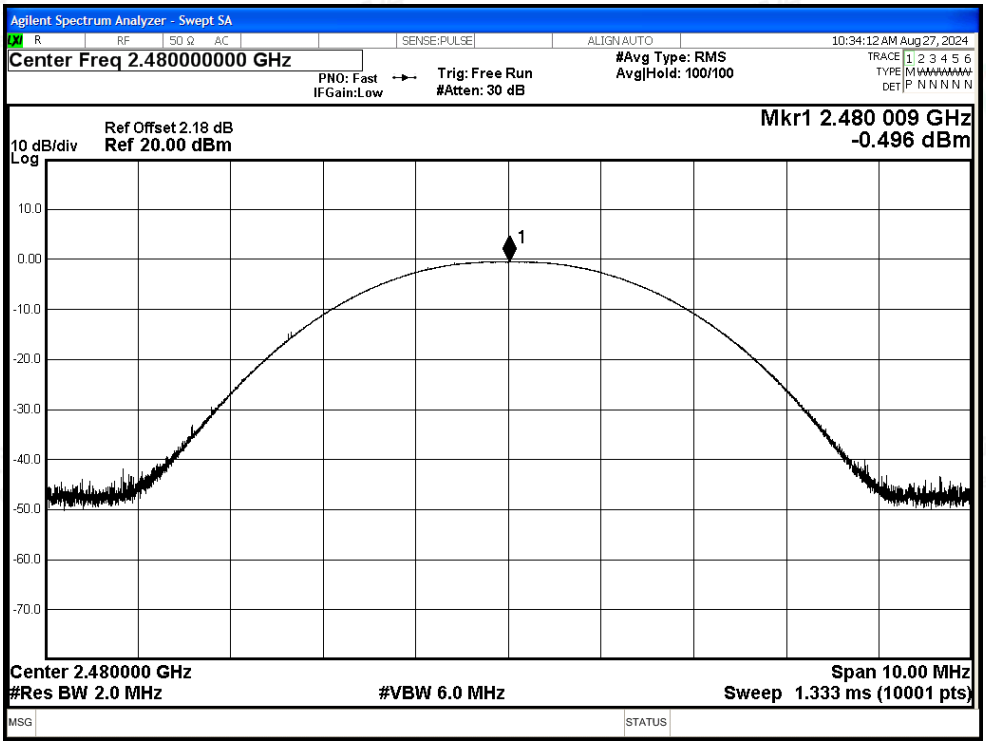
Power NVNT 1-DH5 2402MHz Ant1



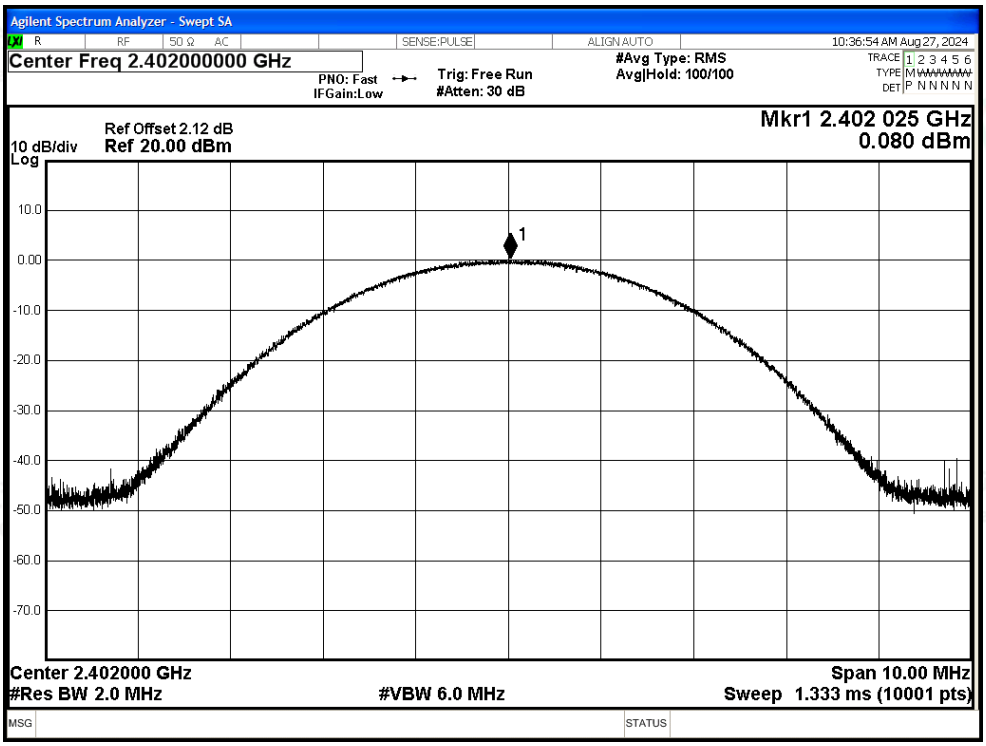
Power NVNT 1-DH5 2441MHz Ant1



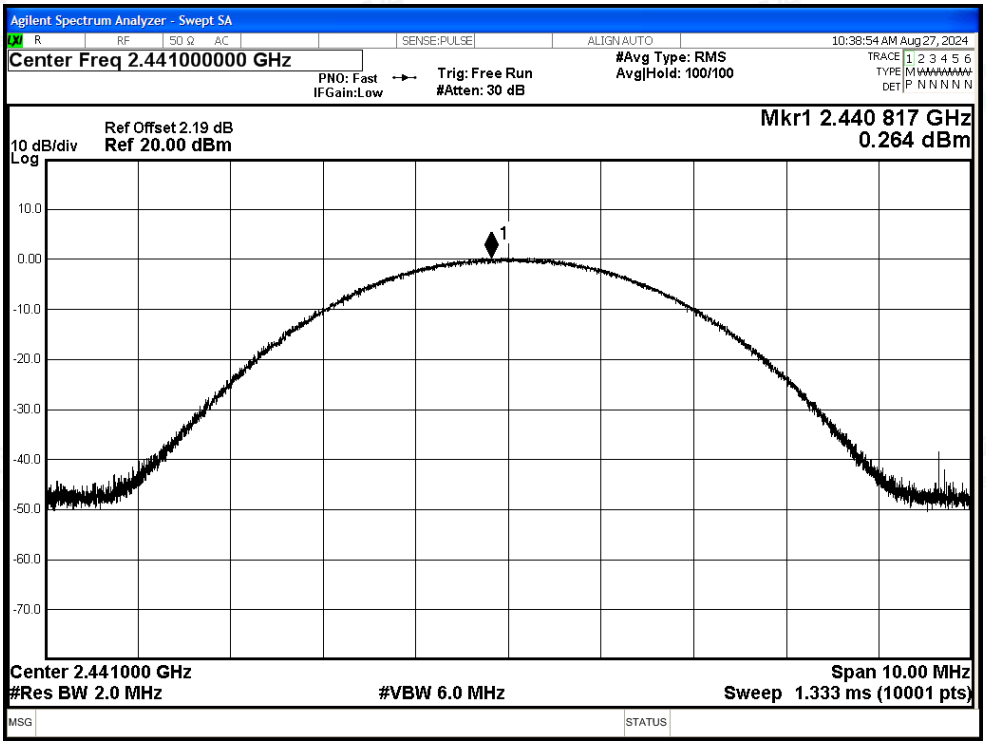
Power NVNT 1-DH5 2480MHz Ant1



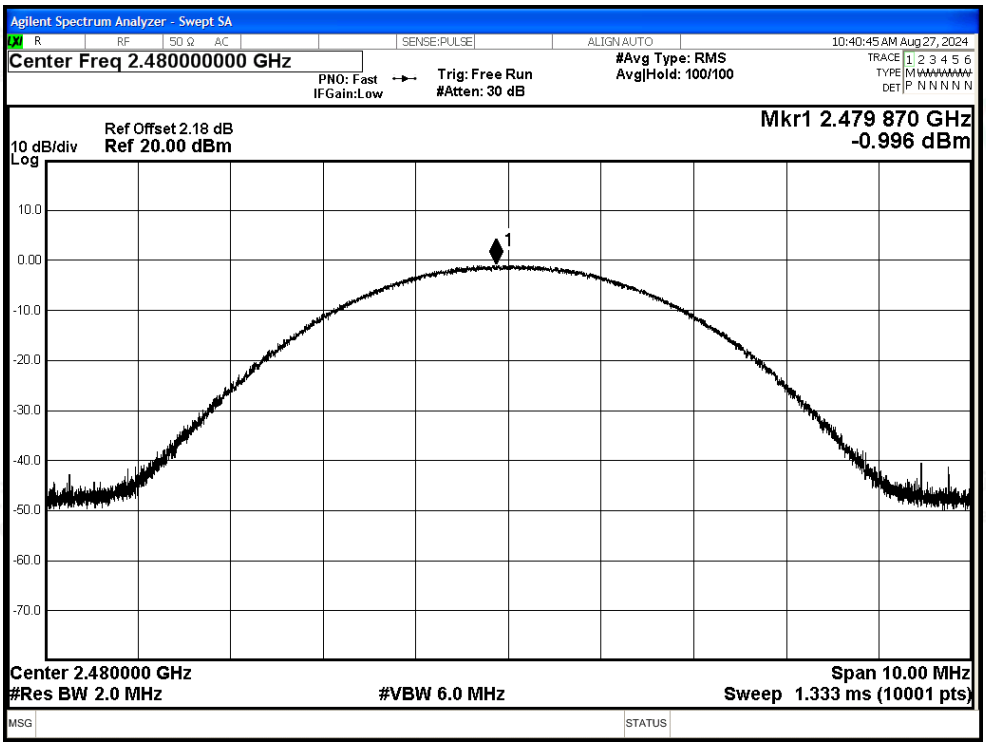
Power NVNT 2-DH5 2402MHz Ant1



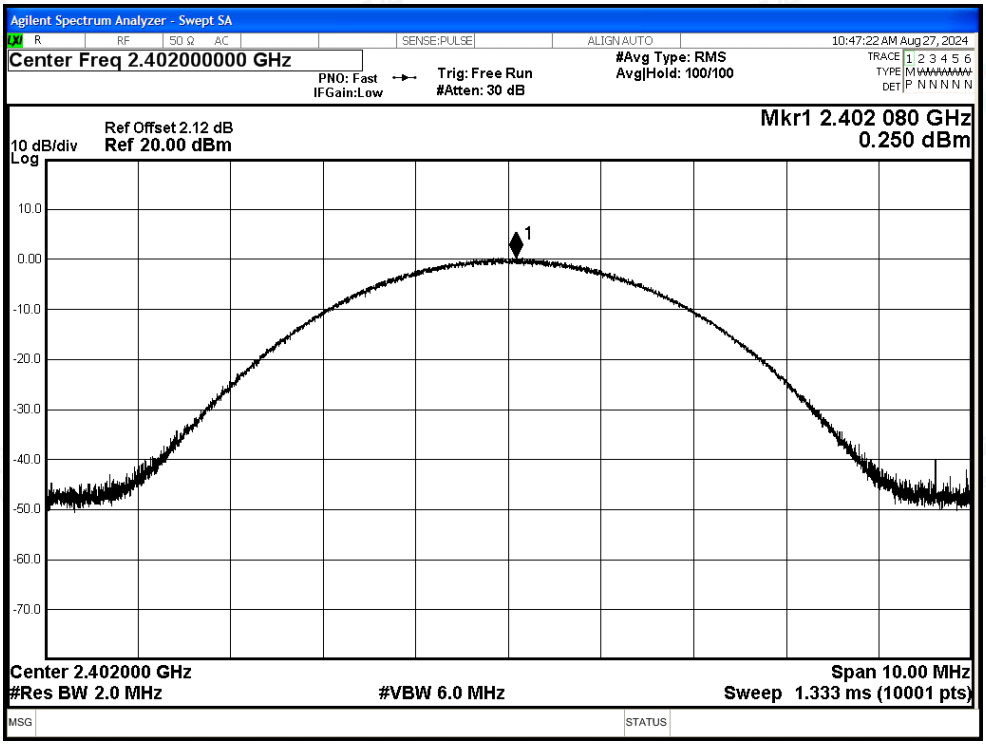
Power NVNT 2-DH5 2441MHz Ant1



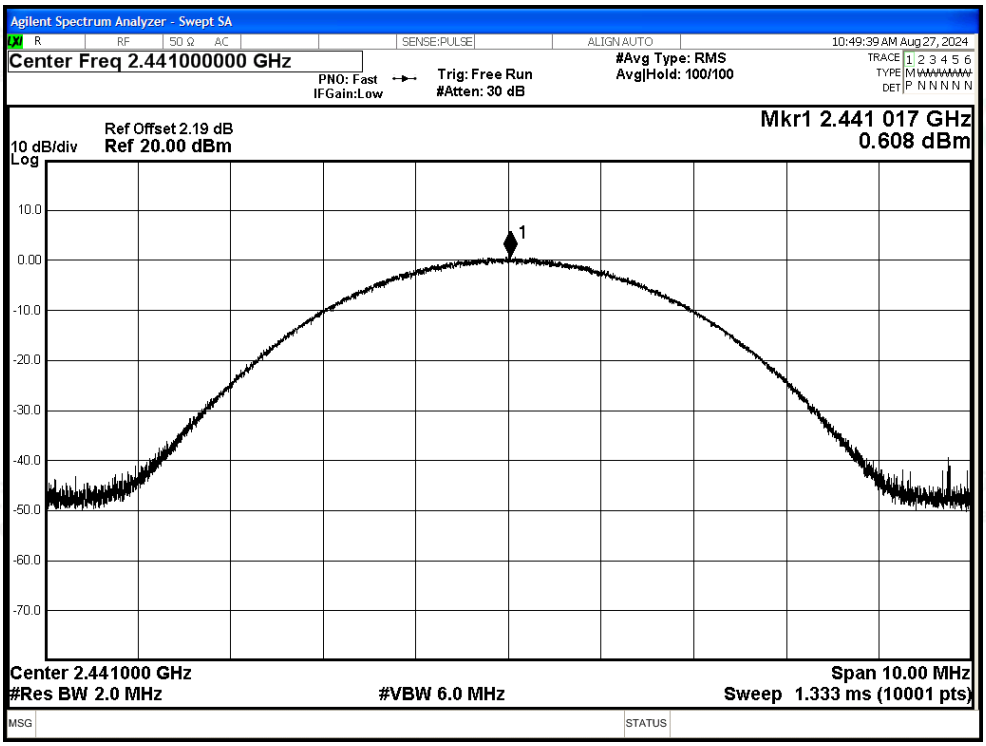
Power NVNT 2-DH5 2480MHz Ant1



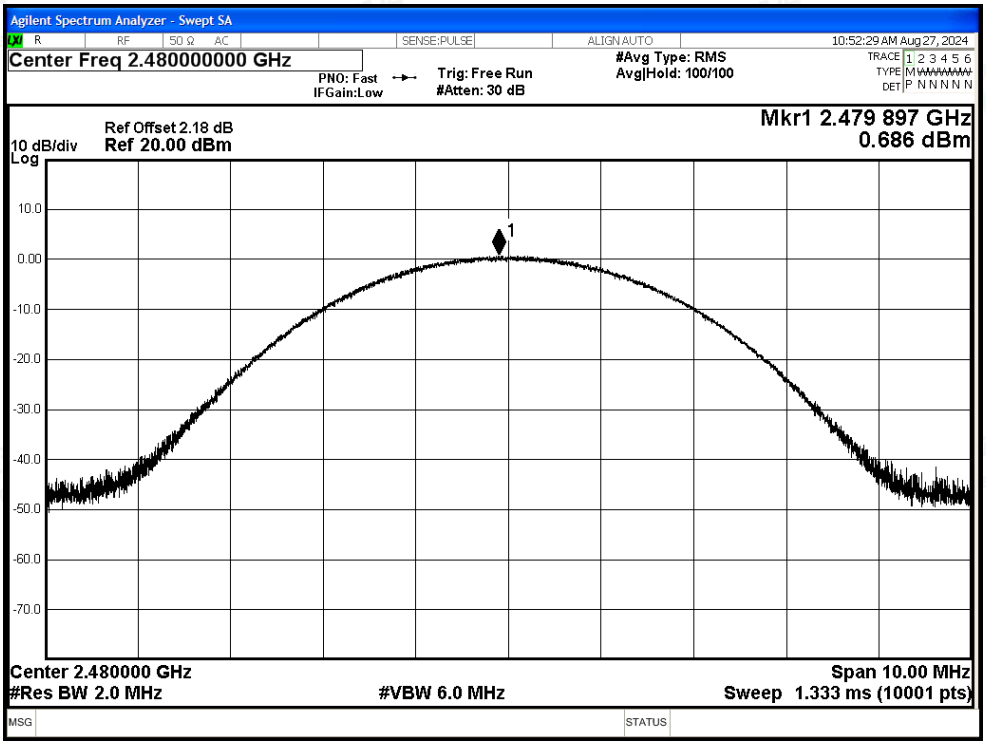
Power NVNT 3-DH5 2402MHz Ant1



Power NVNT 3-DH5 2441MHz Ant1



Power NVNT 3-DH5 2480MHz Ant1

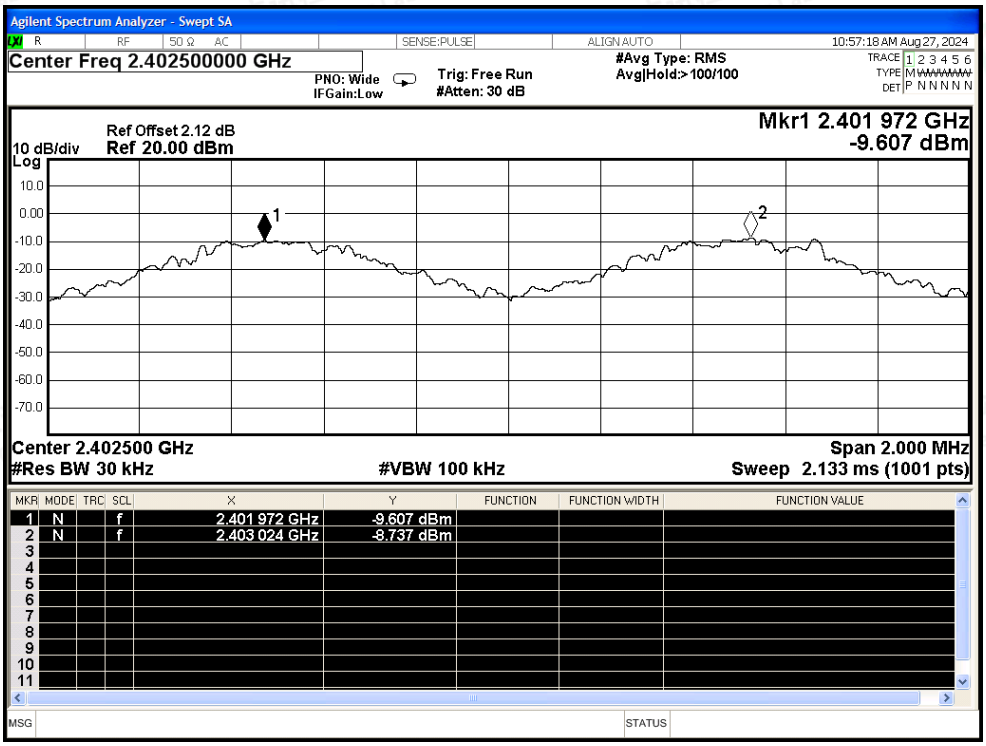


A.3 Carrier Frequencies Separation

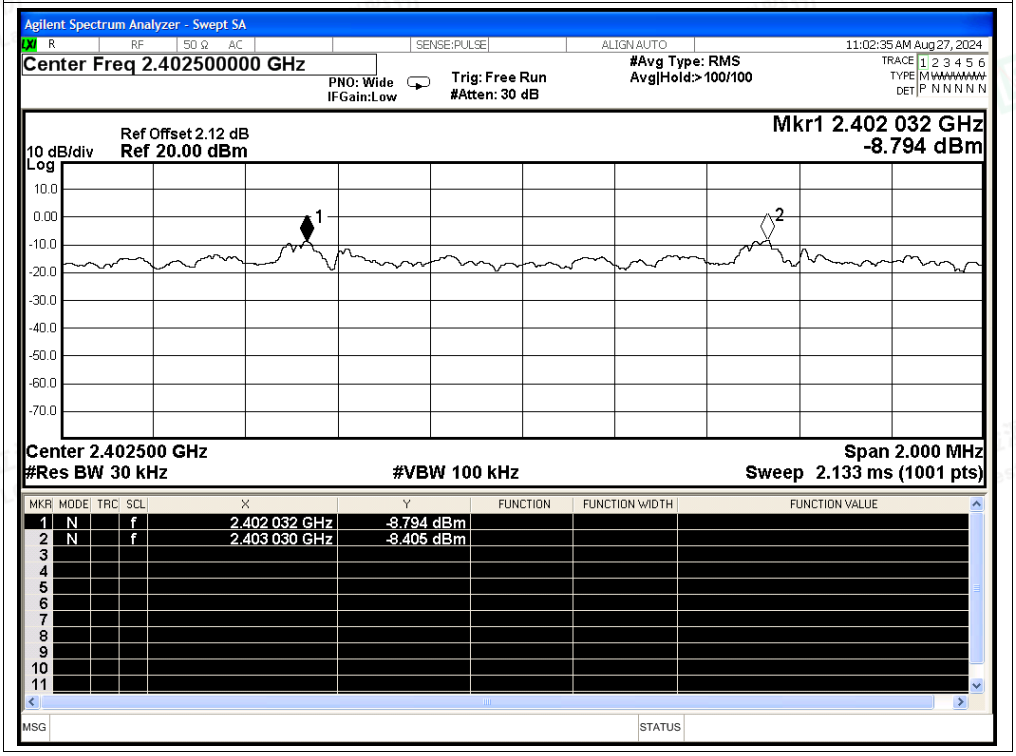
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.972	2403.024	1.052	0.638	Pass
NVNT	2-DH5	Ant1	2402.032	2403.03	0.998	0.88	Pass
NVNT	3-DH5	Ant1	2402.002	2403.026	1.024	0.869	Pass

Test Graphs

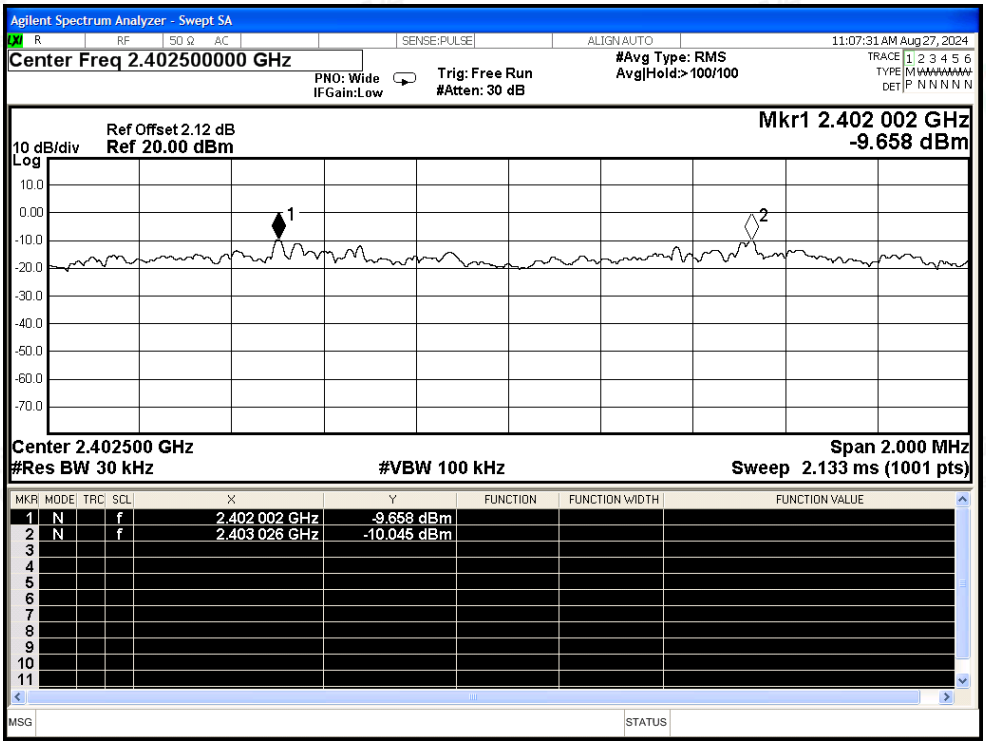
CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1



CFS NVNT 3-DH5 2402MHz Ant1

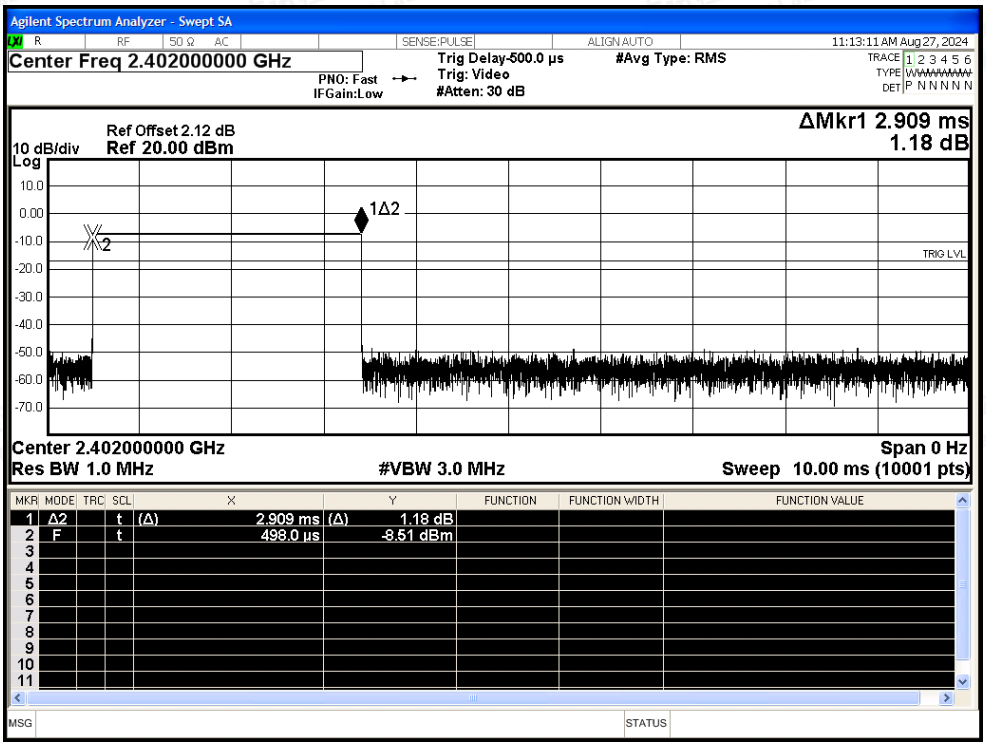


A.4 Dwell Time

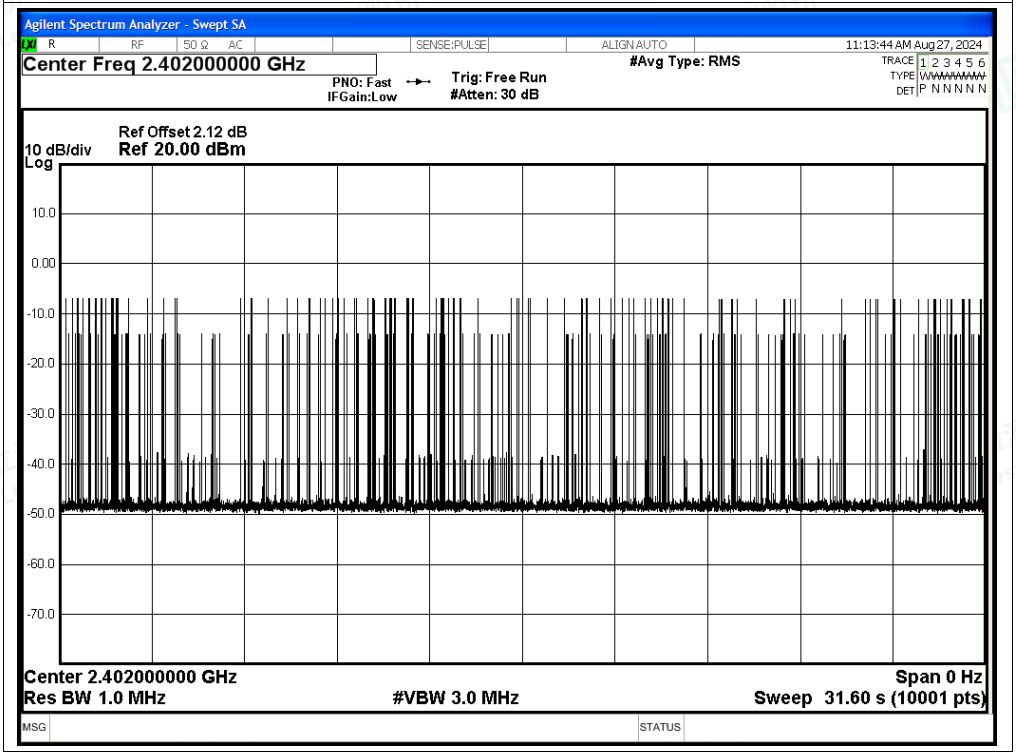
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.909	322.899	111	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.898	315.882	109	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.897	315.773	109	31600	400	Pass

Test Graphs

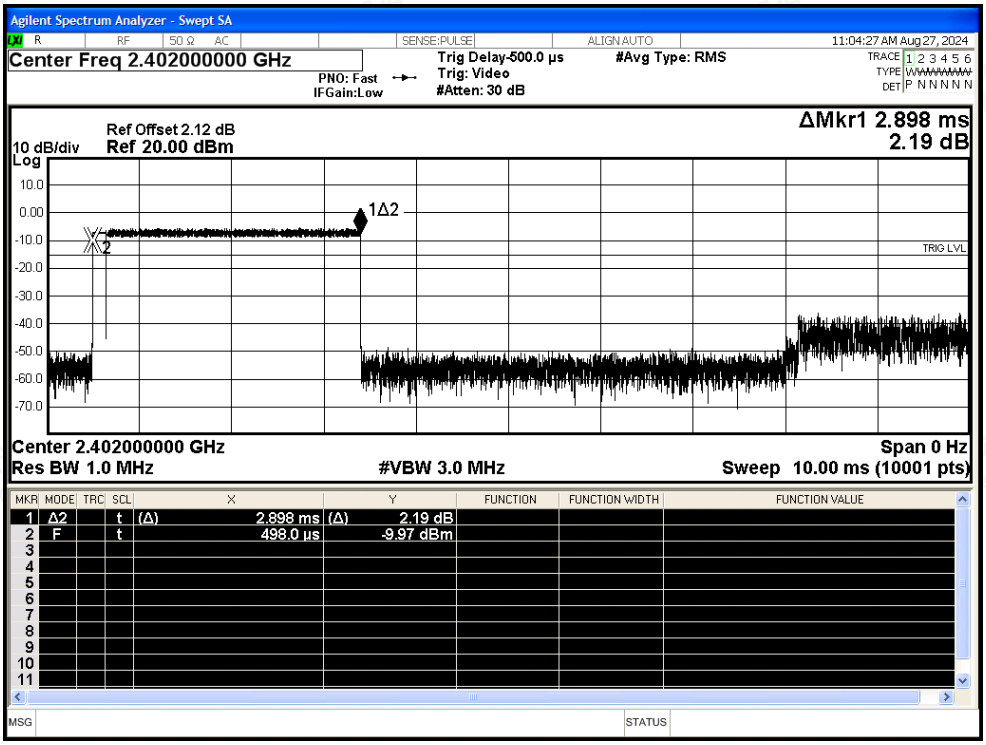
Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



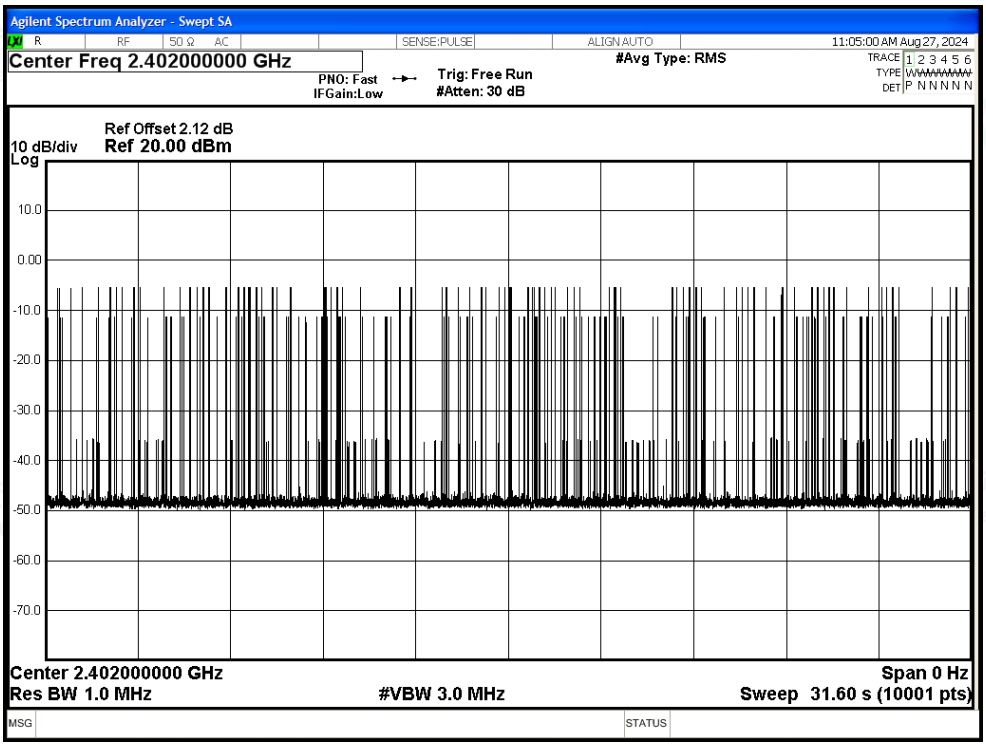
Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



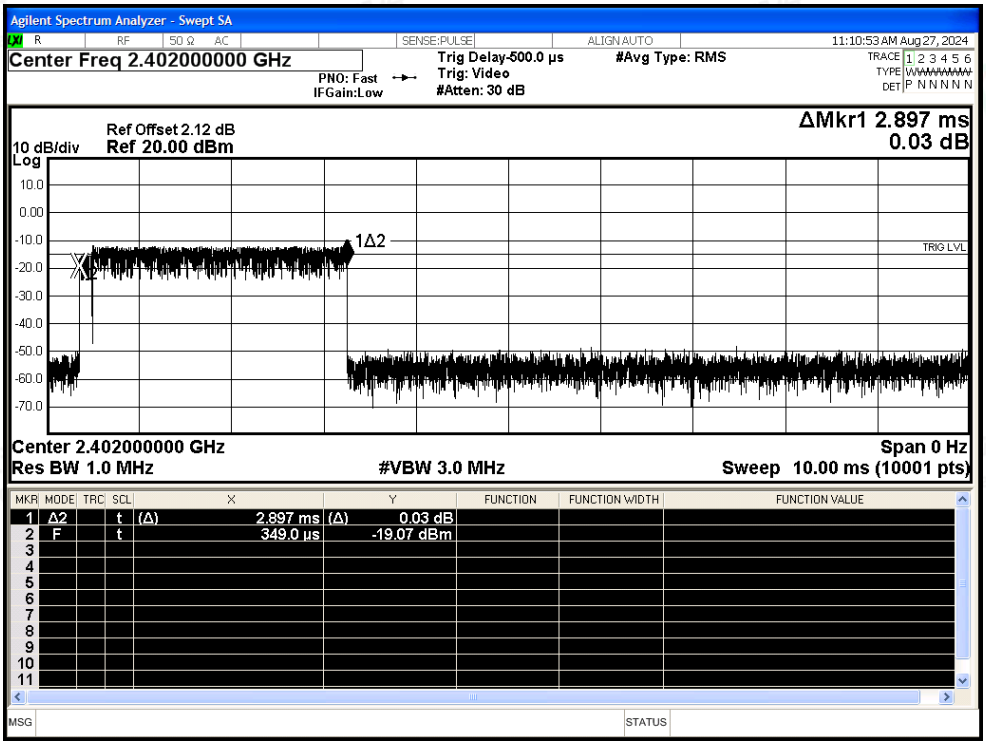
Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



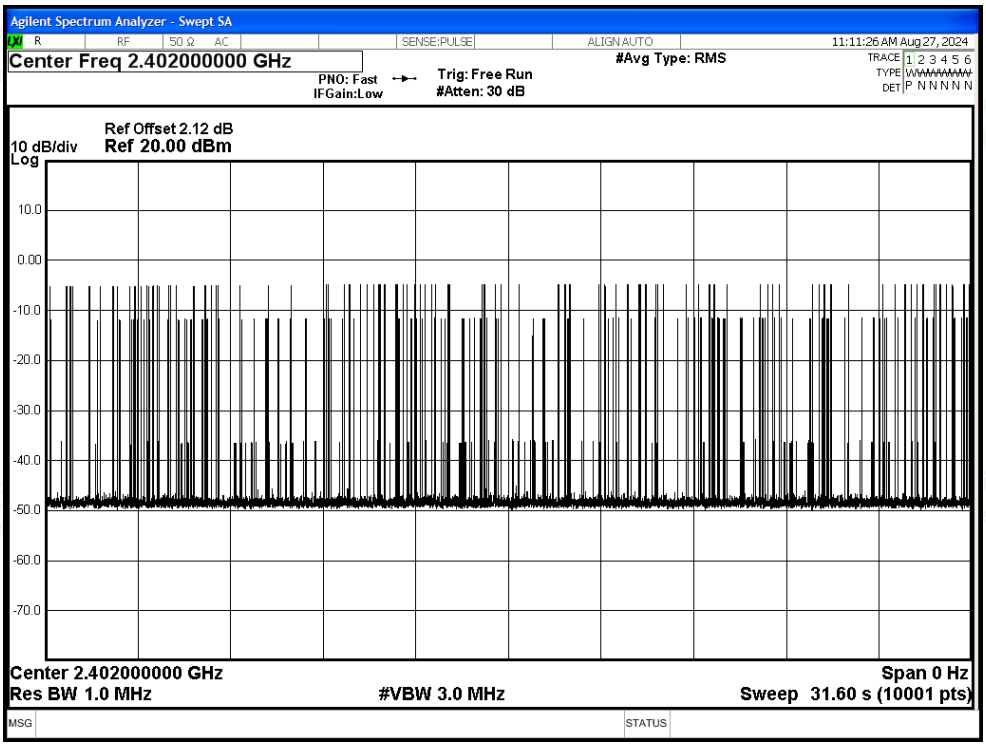
Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated

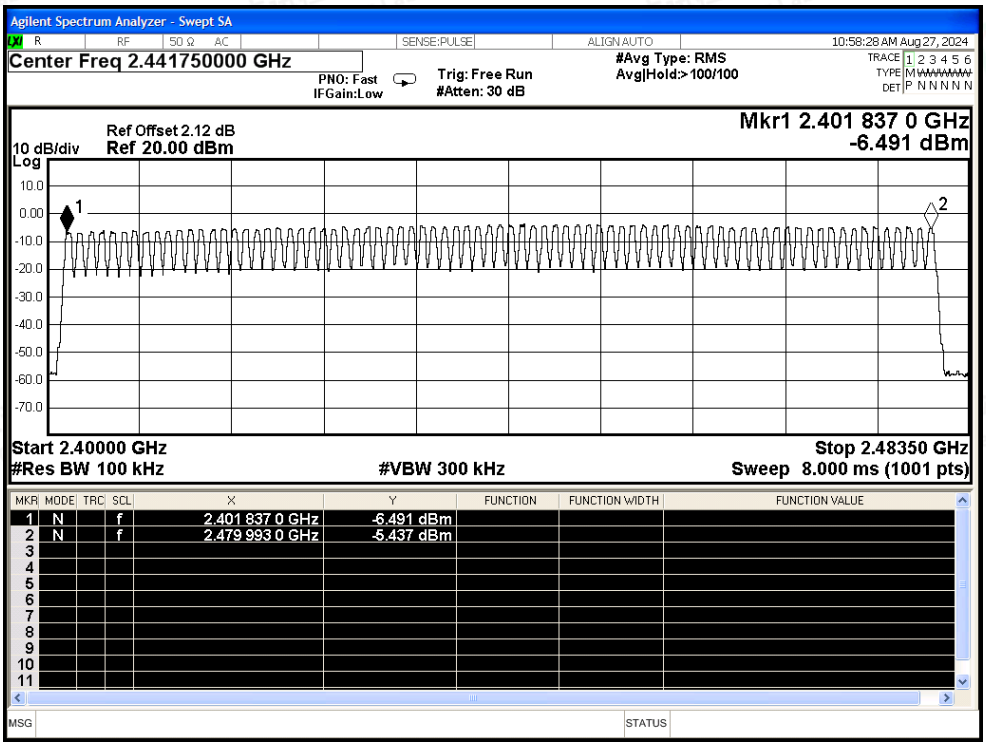


A.5 Number of Hopping Channel

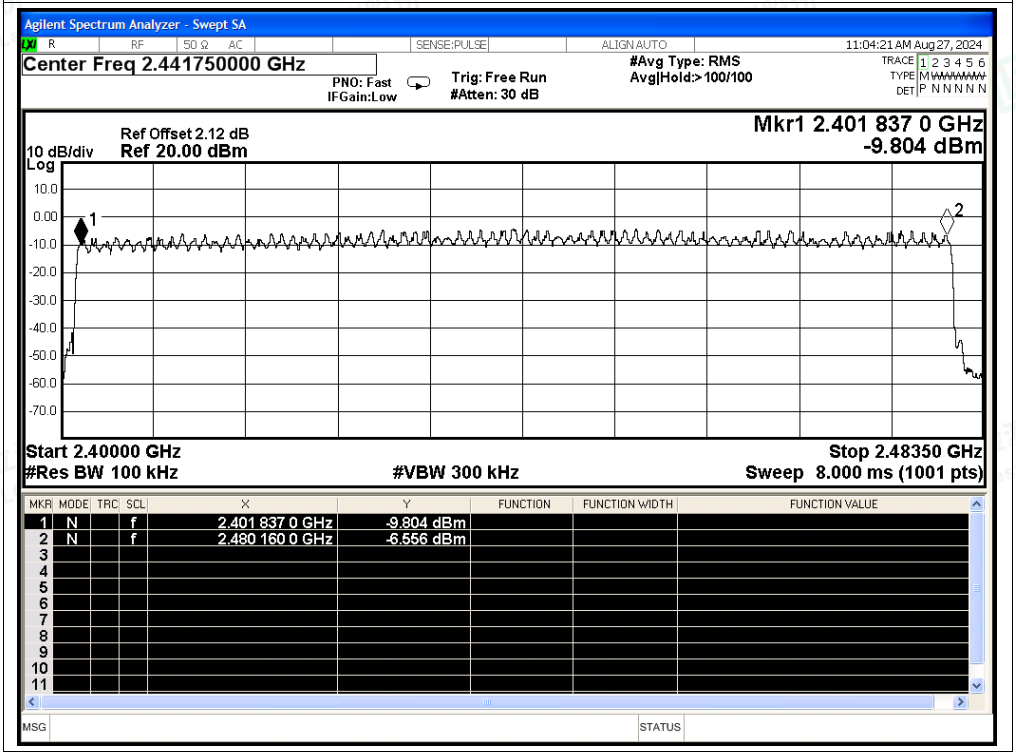
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass

Test Graphs

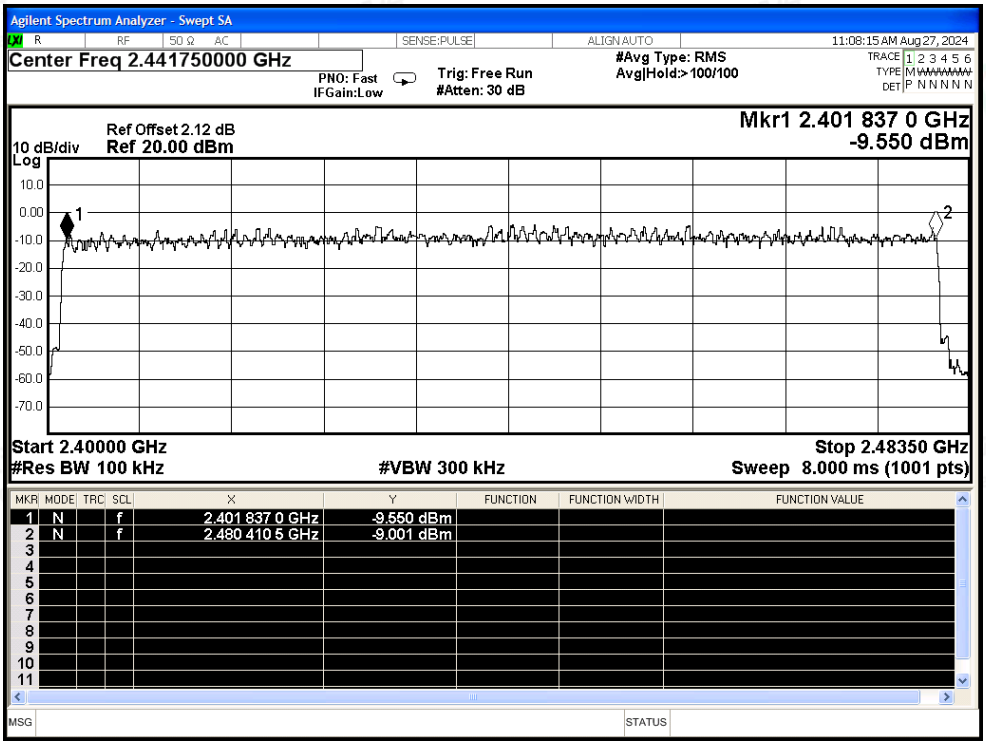
Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1



Hopping No. NVNT 3-DH5 2402MHz Ant1

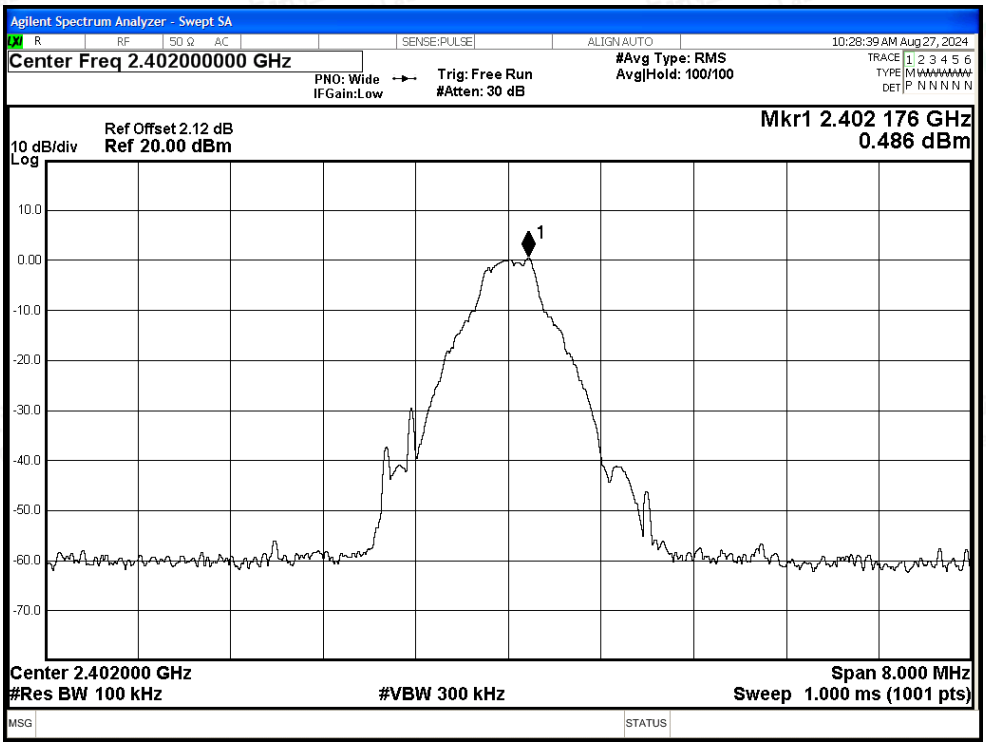


A.6 Band Edge

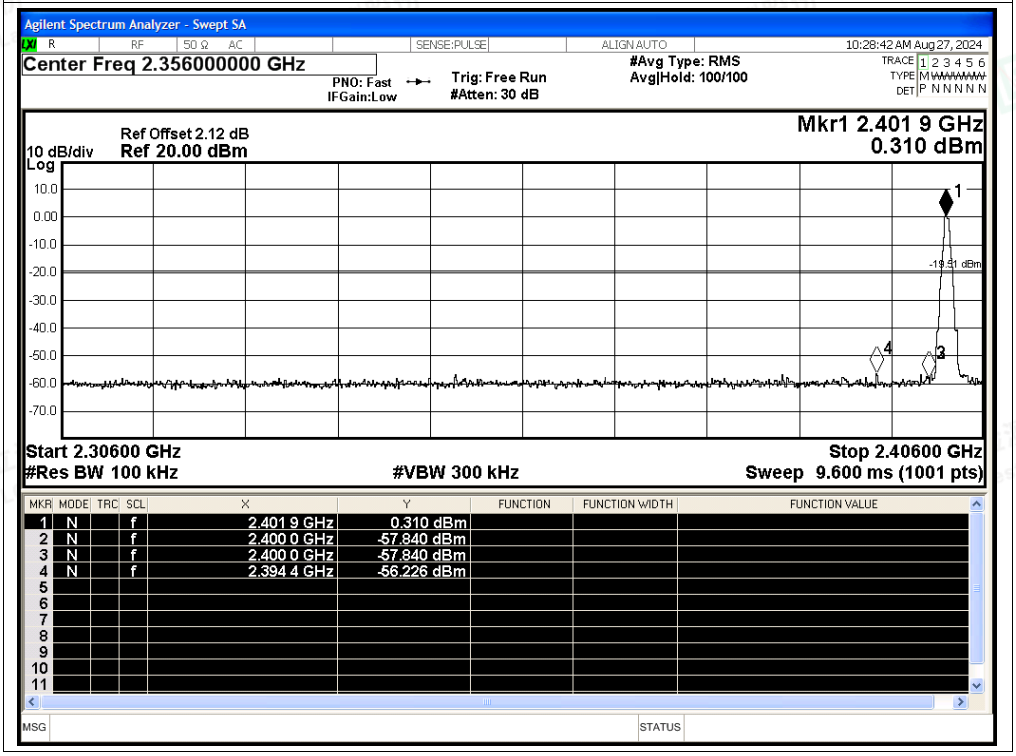
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-56.71	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-56	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-50.45	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-50.64	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-52.25	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-53.57	-20	Pass

Test Graphs

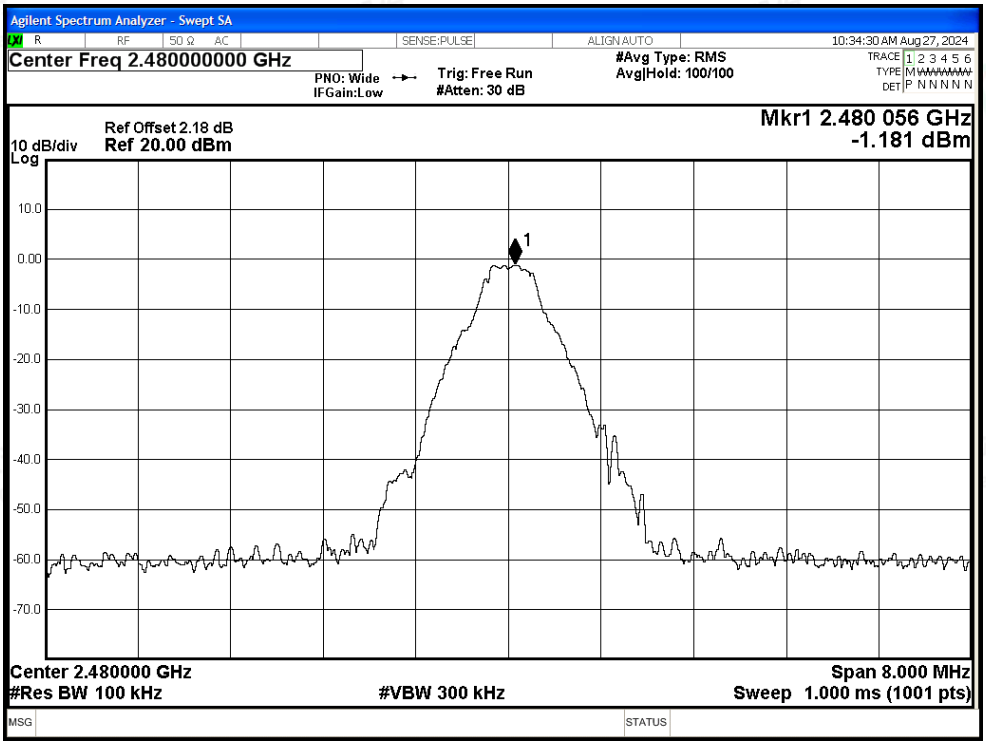
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



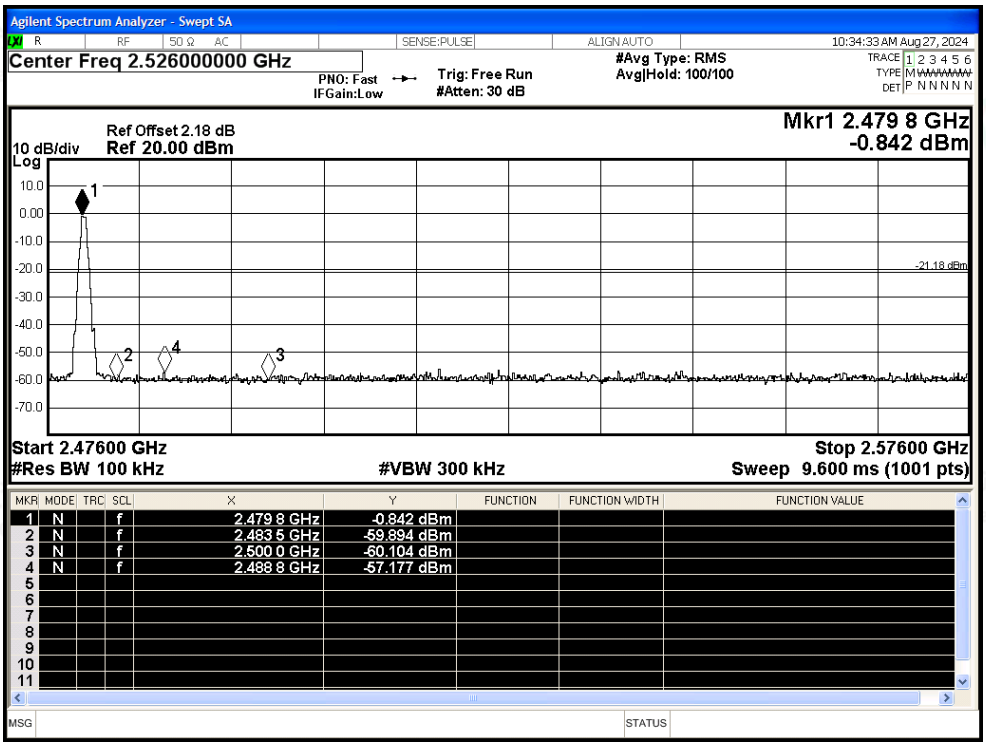
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



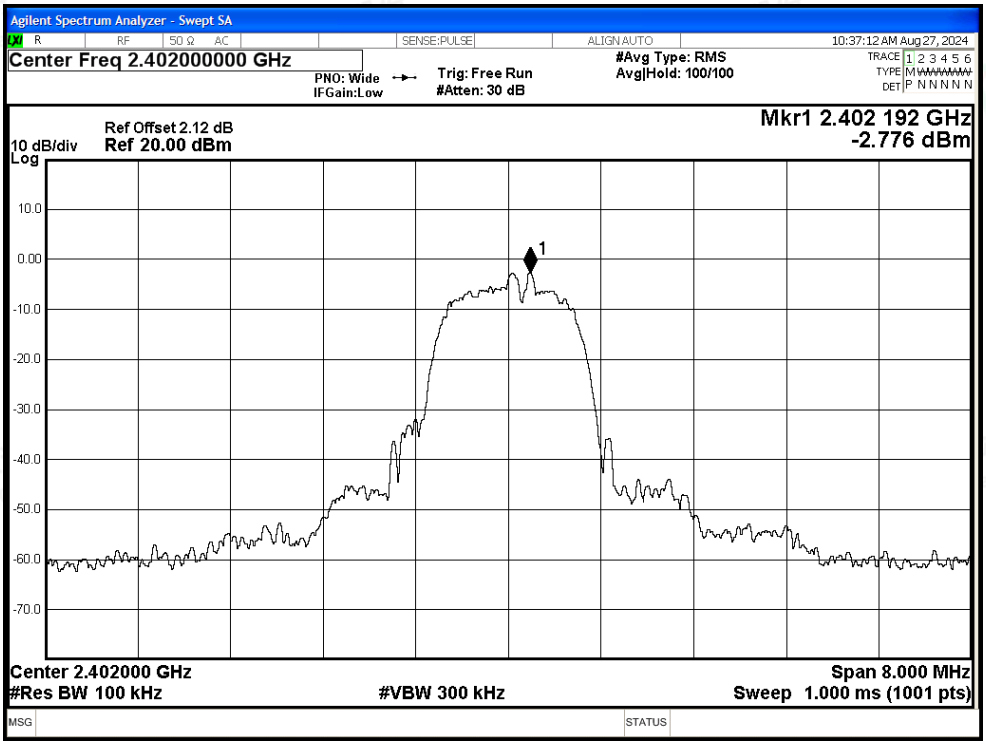
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref



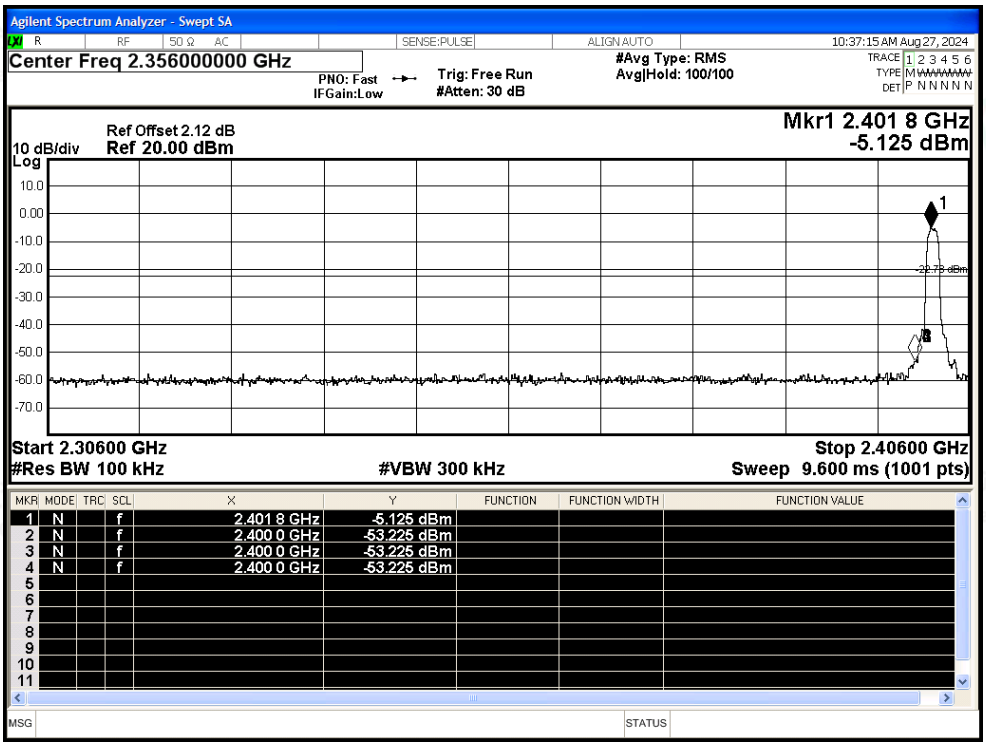
Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission



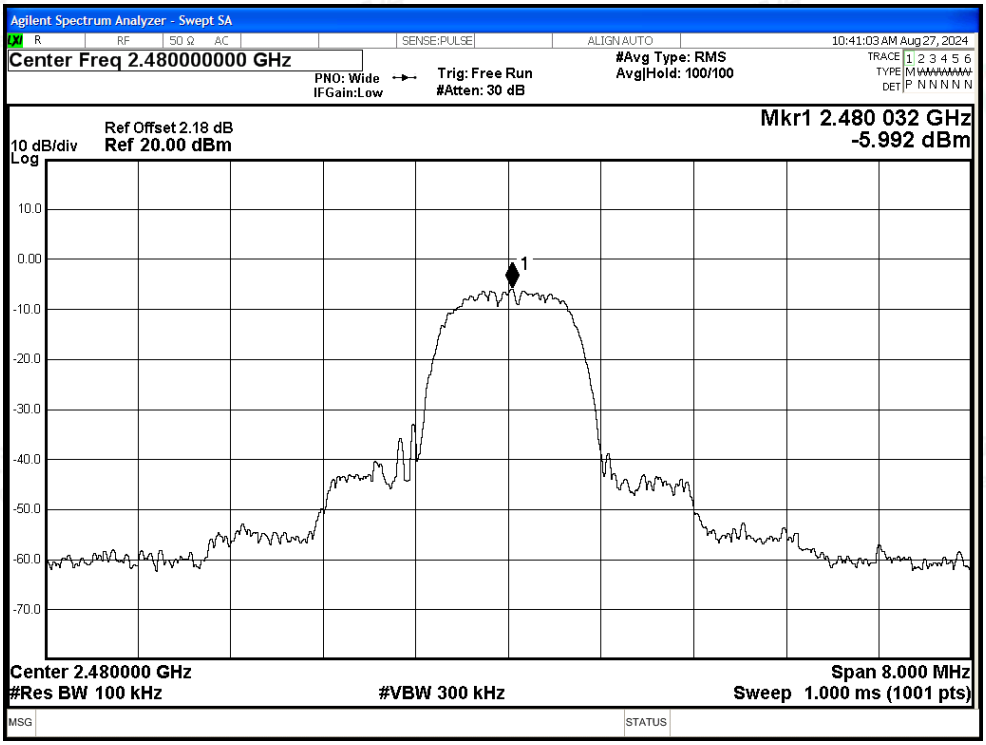
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref



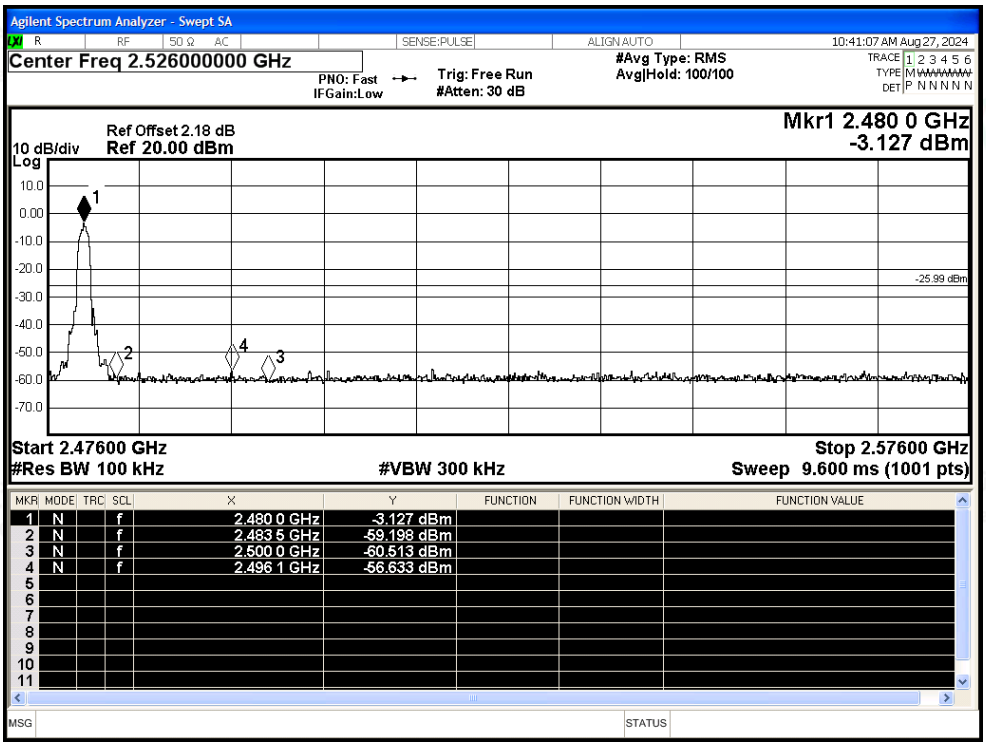
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission



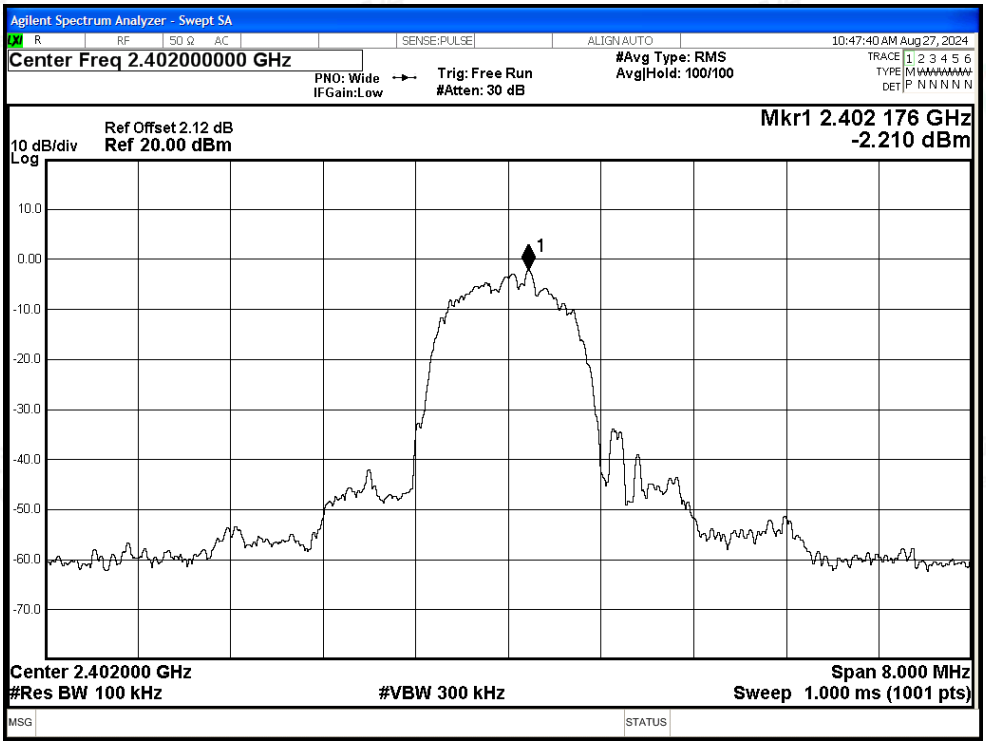
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



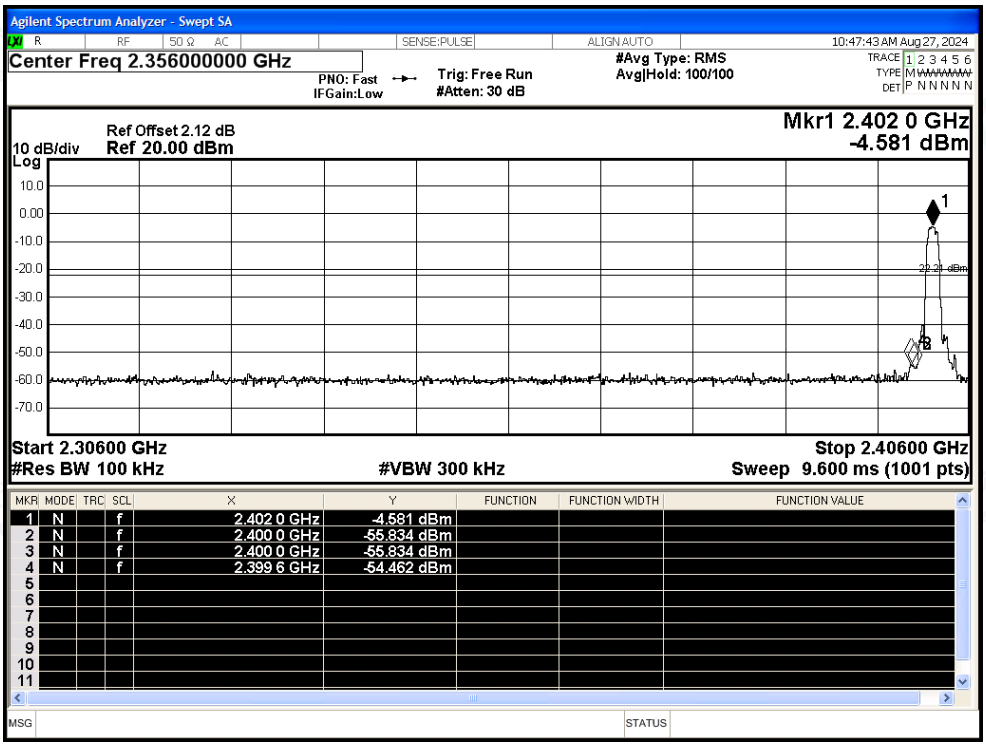
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission



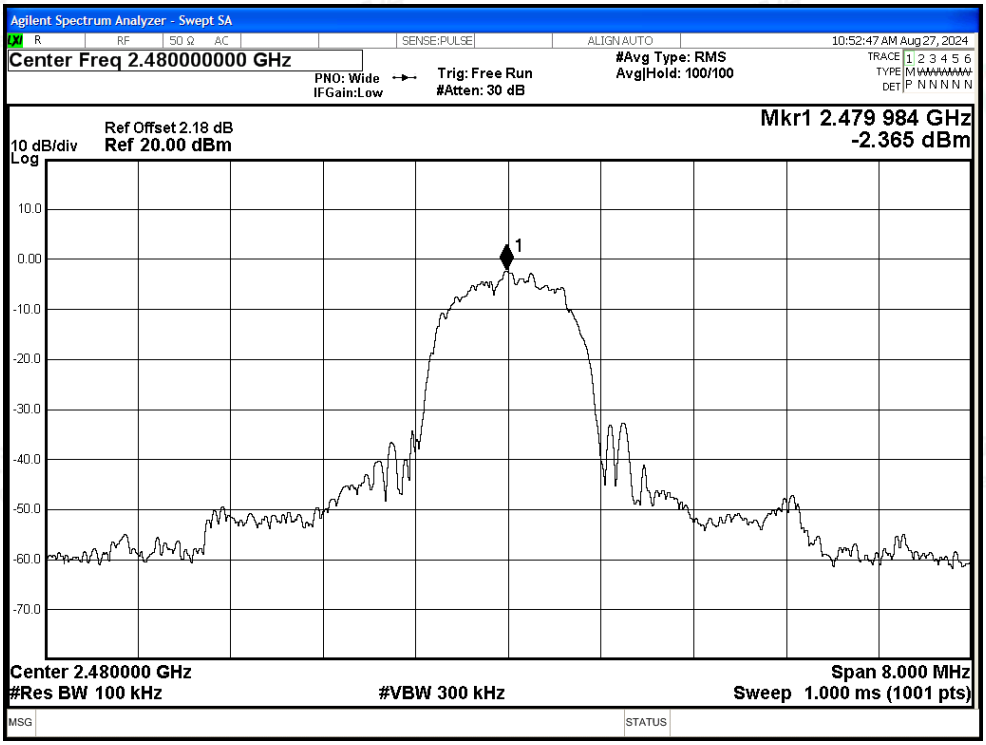
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref



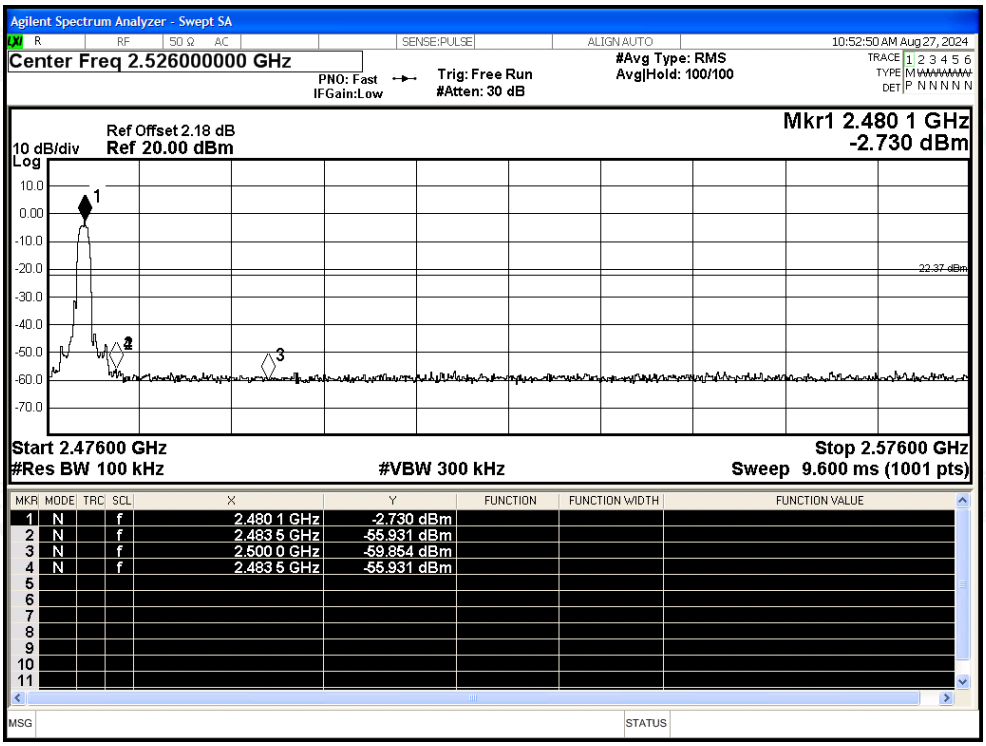
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission



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



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

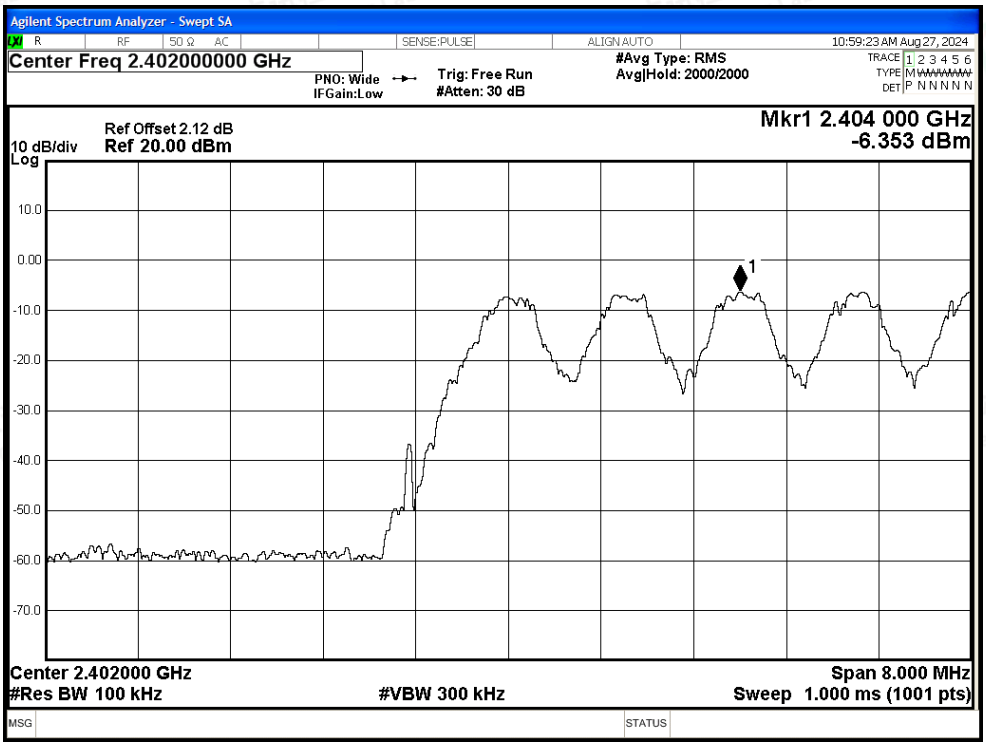


(Hopping)

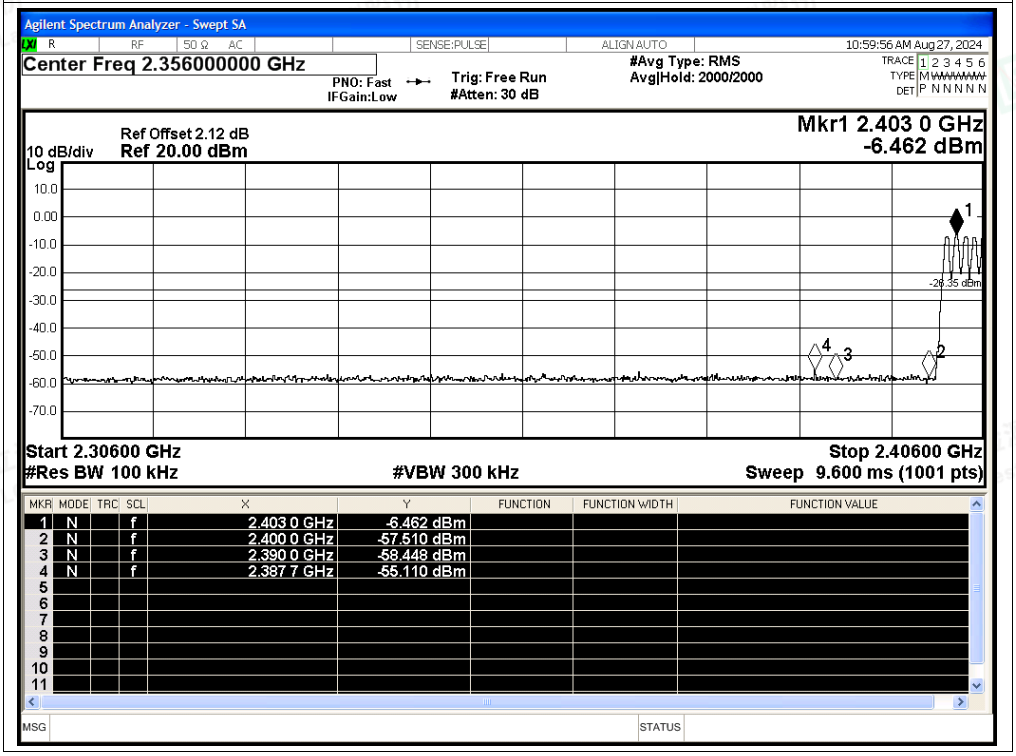
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-48.76	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-50.53	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-49.08	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-50.28	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-46.95	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-50.88	-20	Pass

Test Graphs

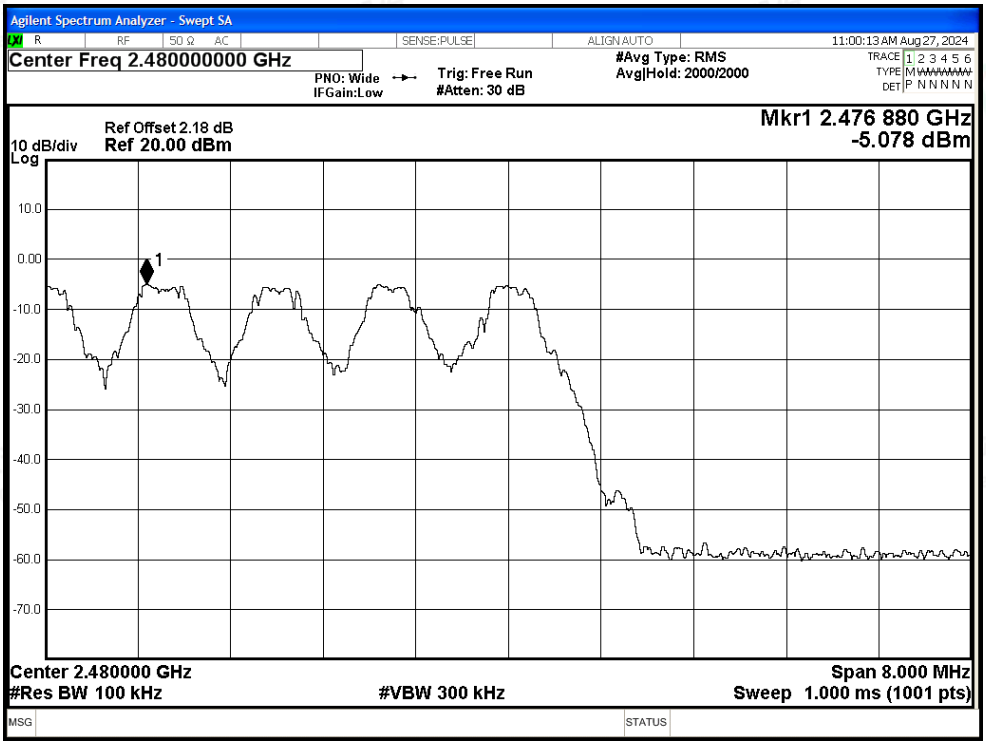
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref



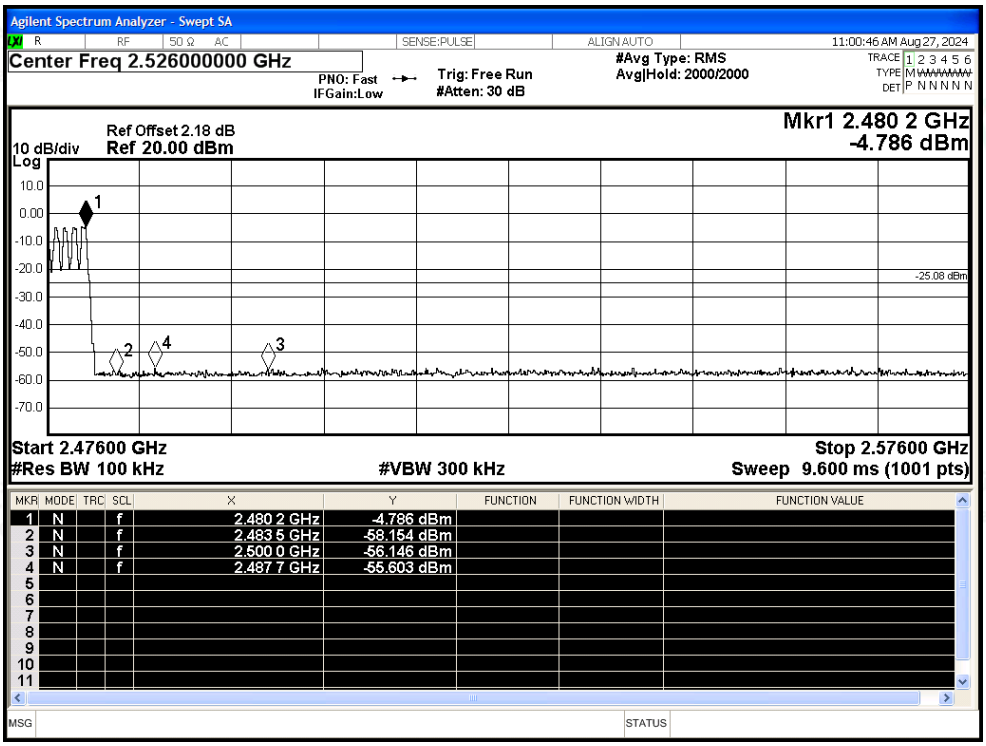
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission



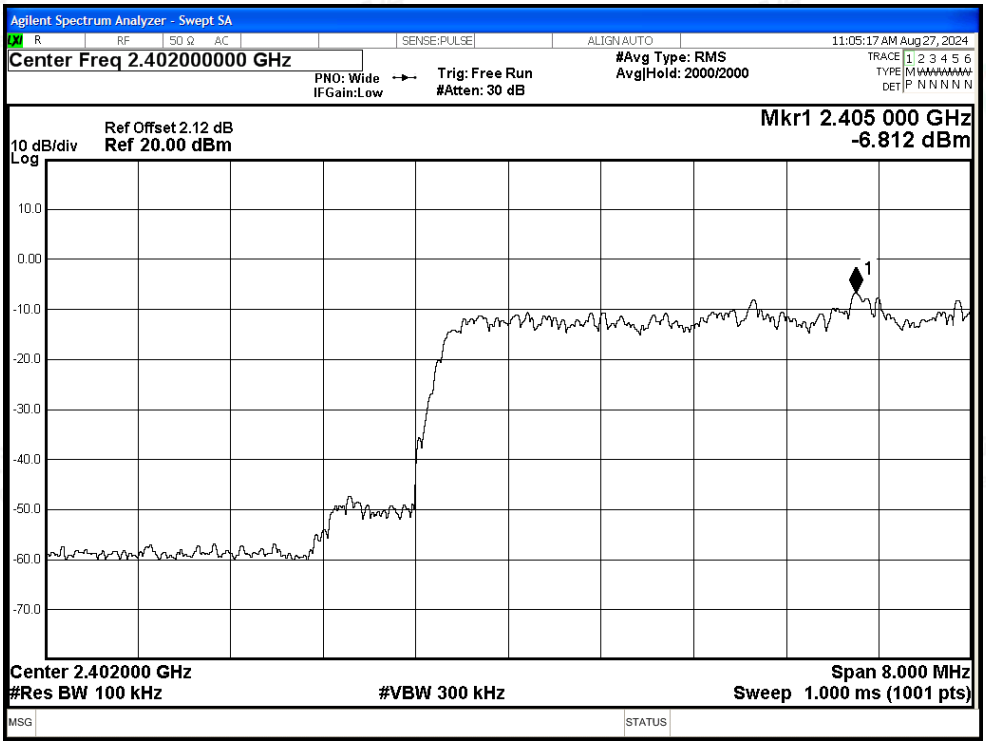
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref



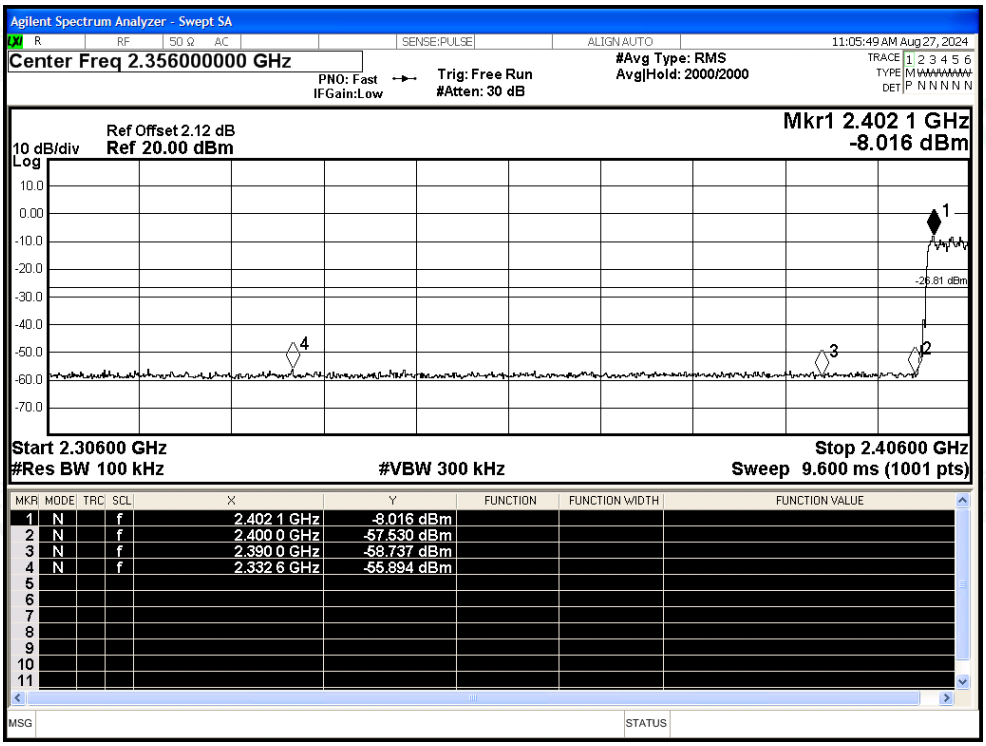
Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission



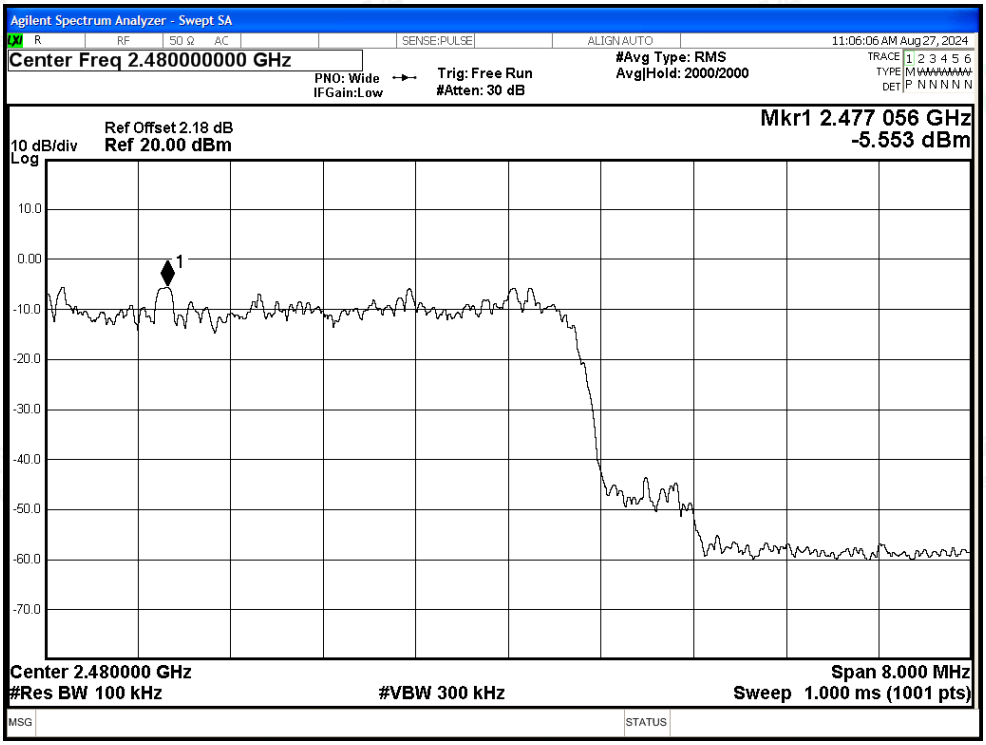
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref



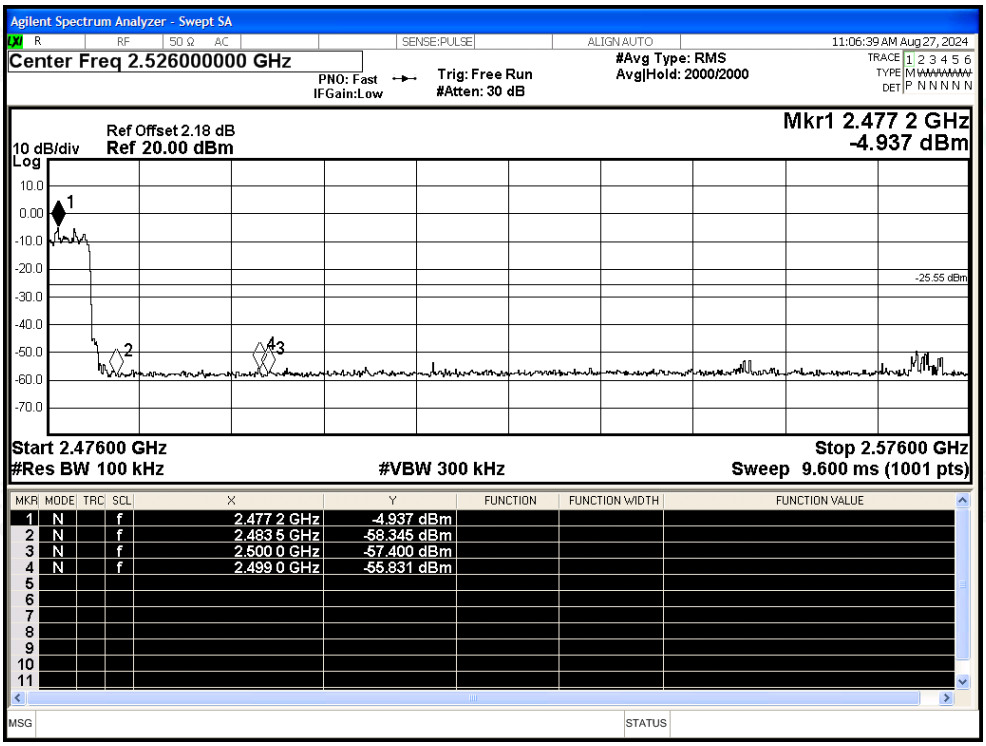
Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission



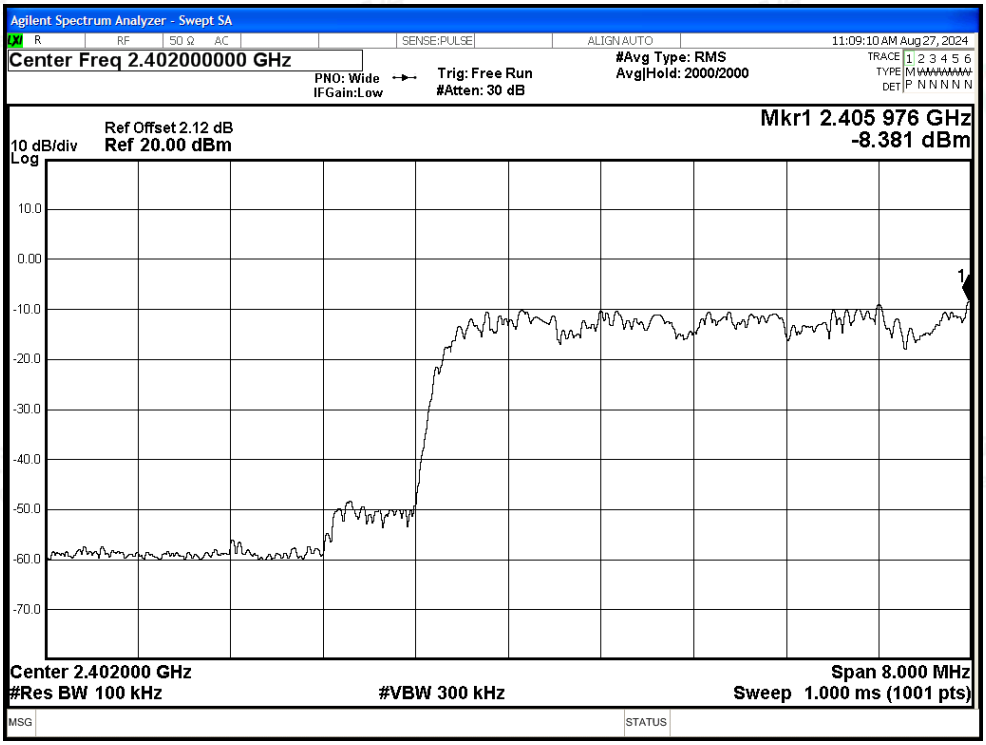
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref



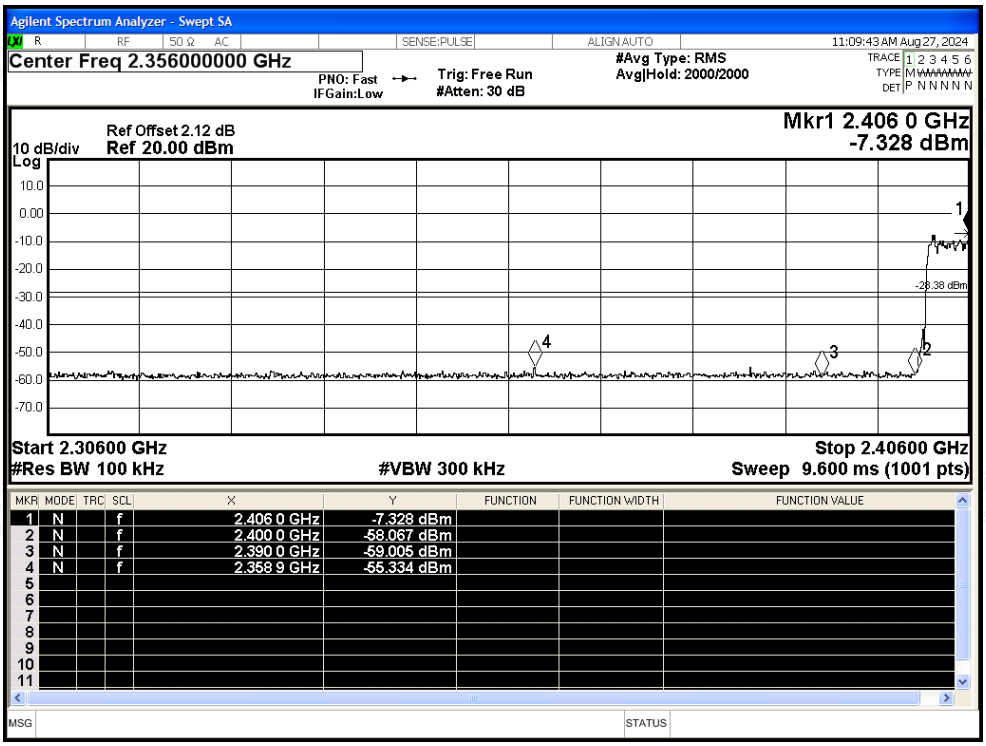
Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission



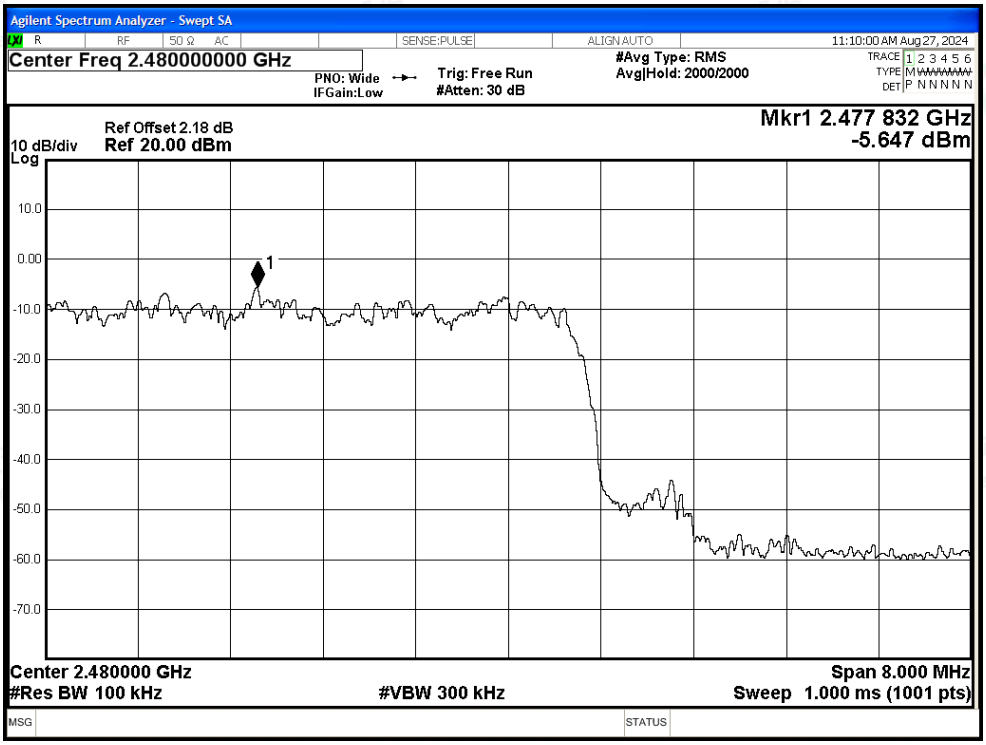
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref



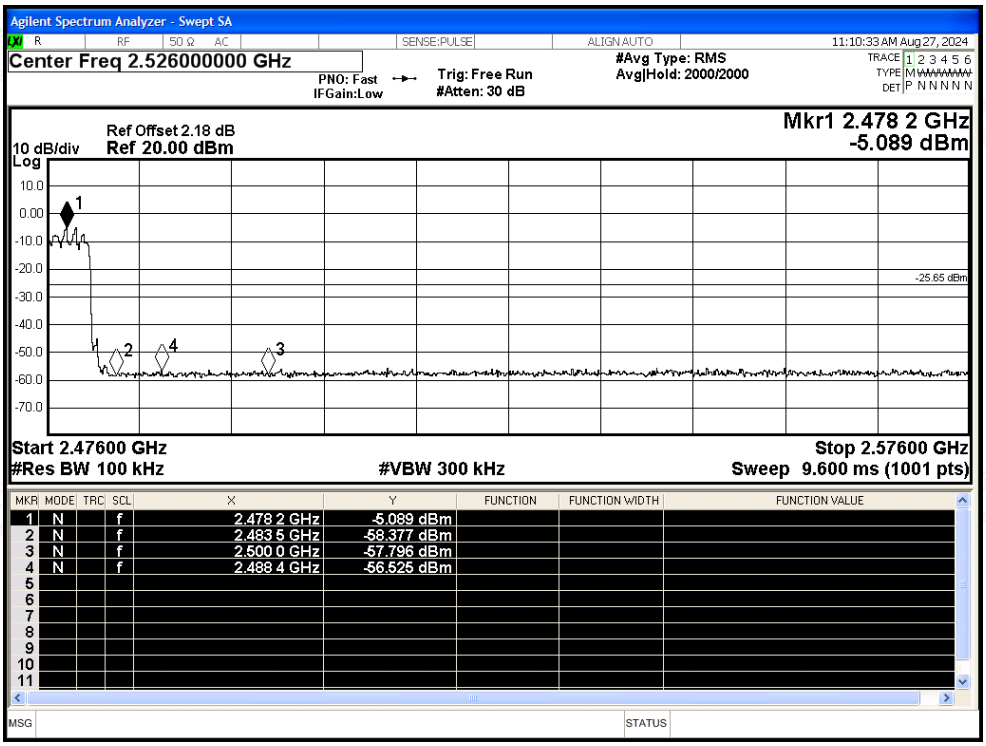
Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission



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



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

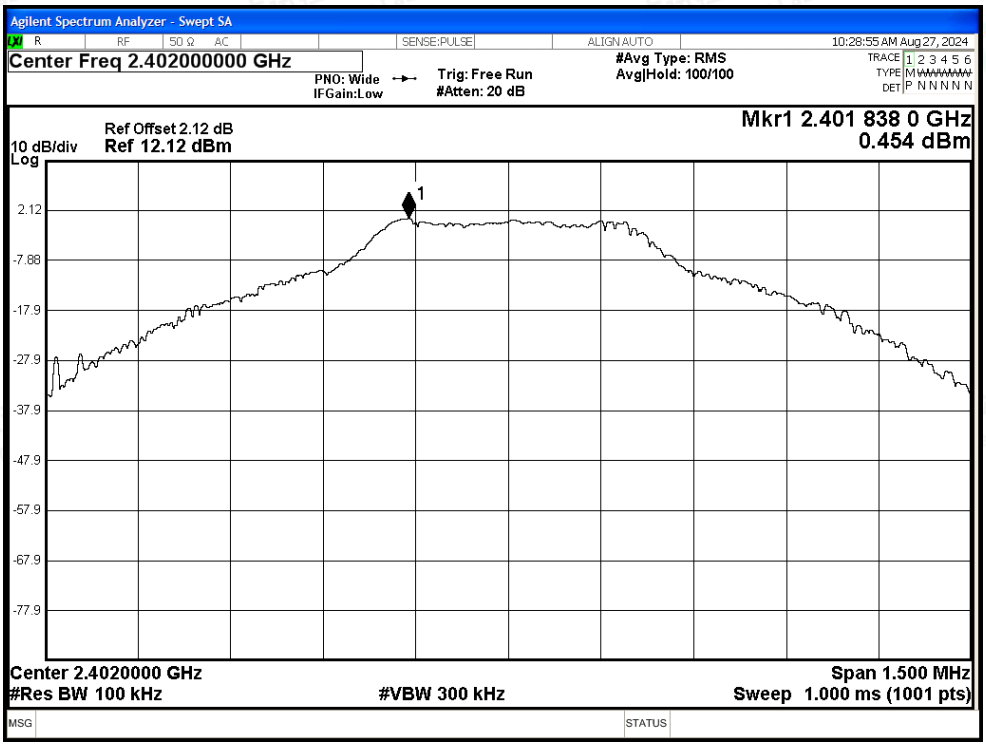


A.7 Conducted RF Spurious Emission

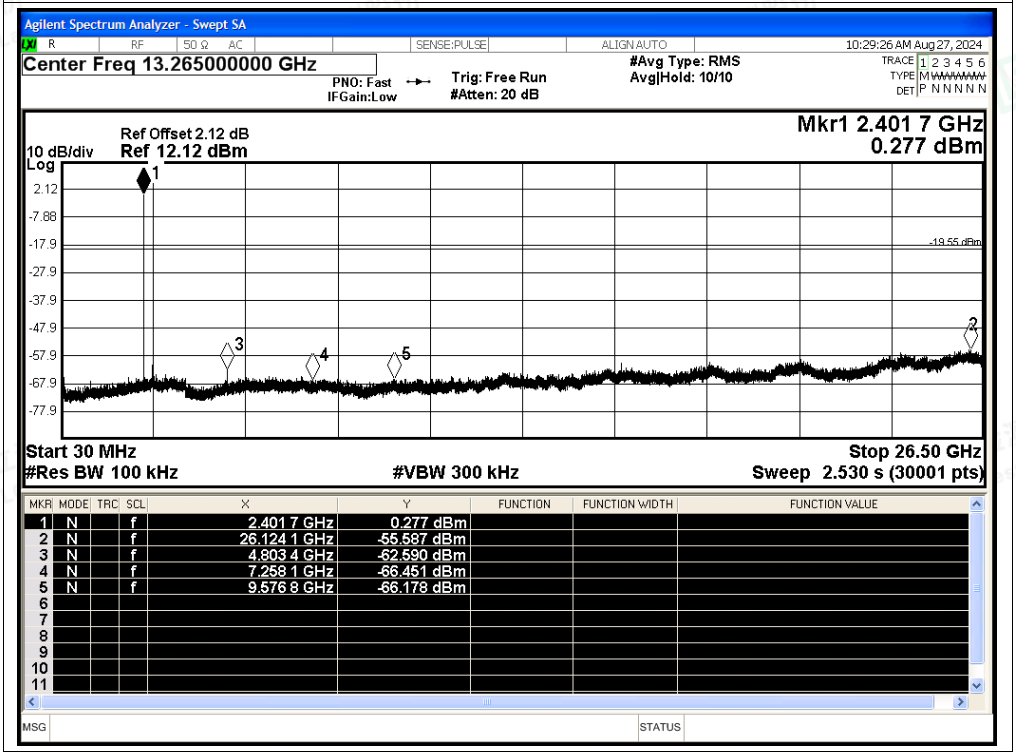
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-56.04	-20	Pass
NVNT	1-DH5	2441	Ant1	-52.78	-20	Pass
NVNT	1-DH5	2480	Ant1	-55.18	-20	Pass
NVNT	2-DH5	2402	Ant1	-52.91	-20	Pass
NVNT	2-DH5	2441	Ant1	-52.54	-20	Pass
NVNT	2-DH5	2480	Ant1	-52.46	-20	Pass
NVNT	3-DH5	2402	Ant1	-53.16	-20	Pass
NVNT	3-DH5	2441	Ant1	-52.91	-20	Pass
NVNT	3-DH5	2480	Ant1	-49.99	-20	Pass

Test Graphs

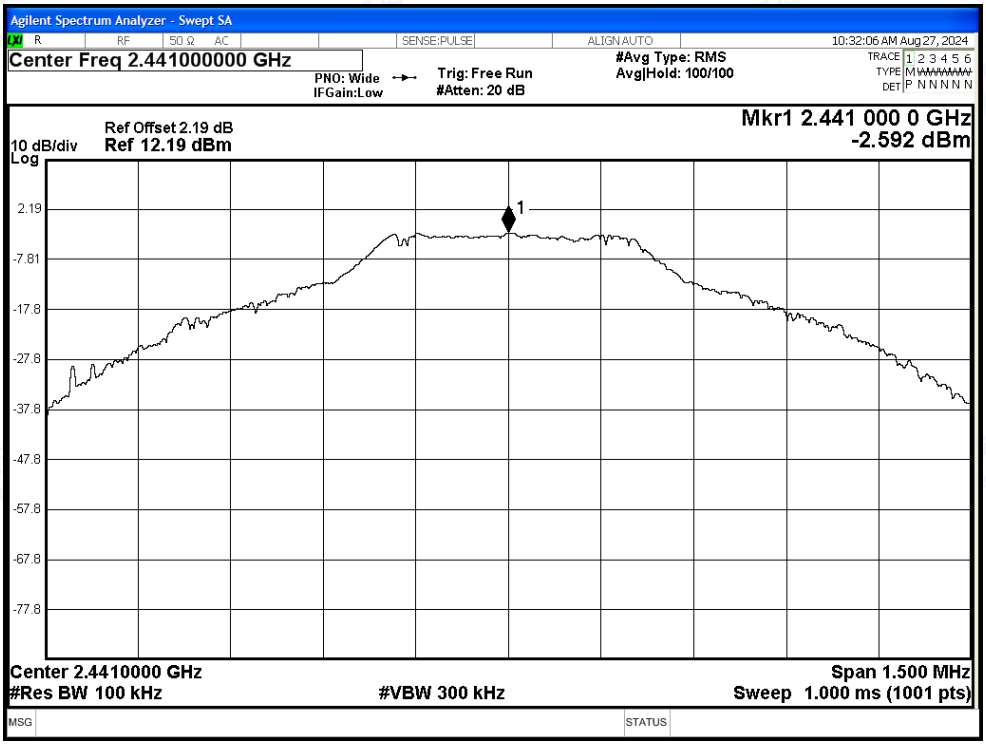
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



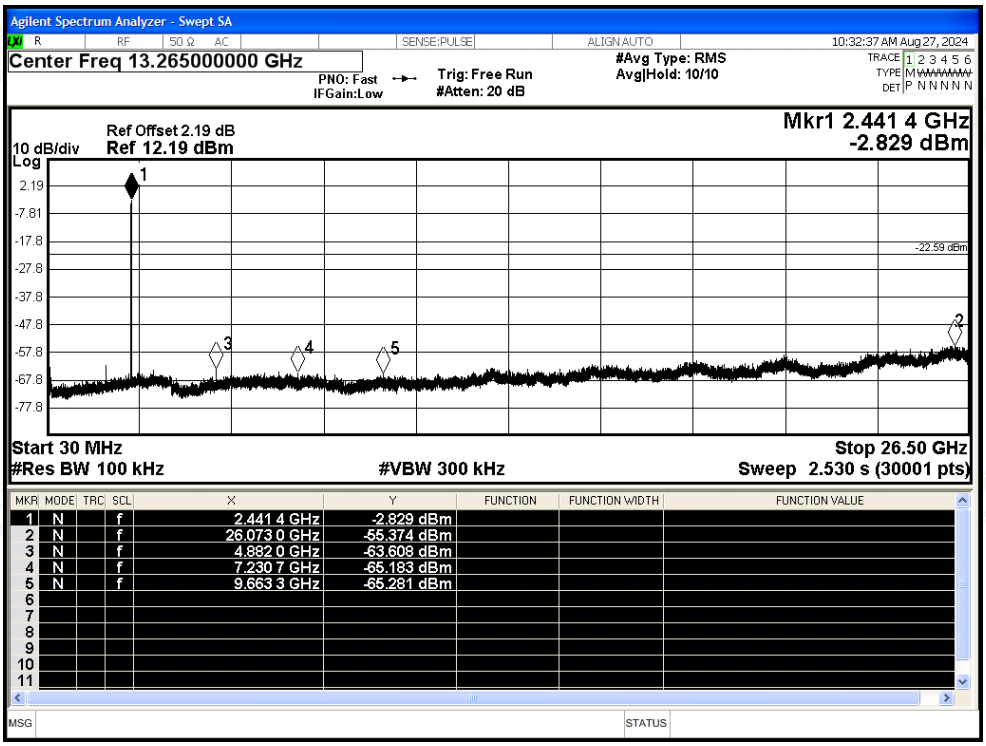
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



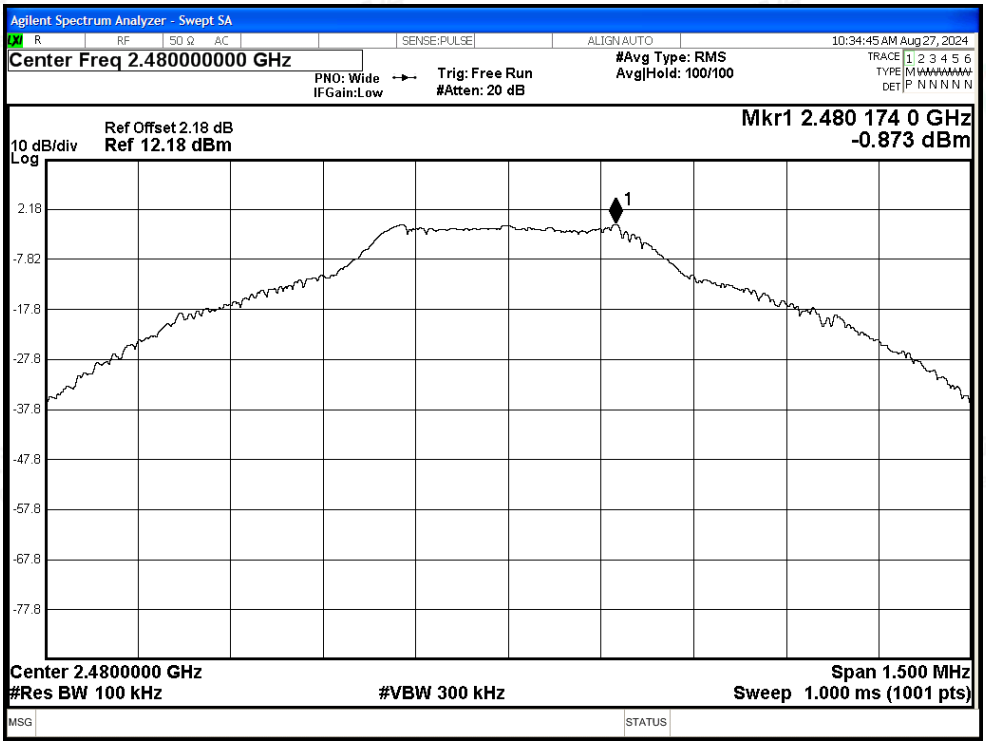
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



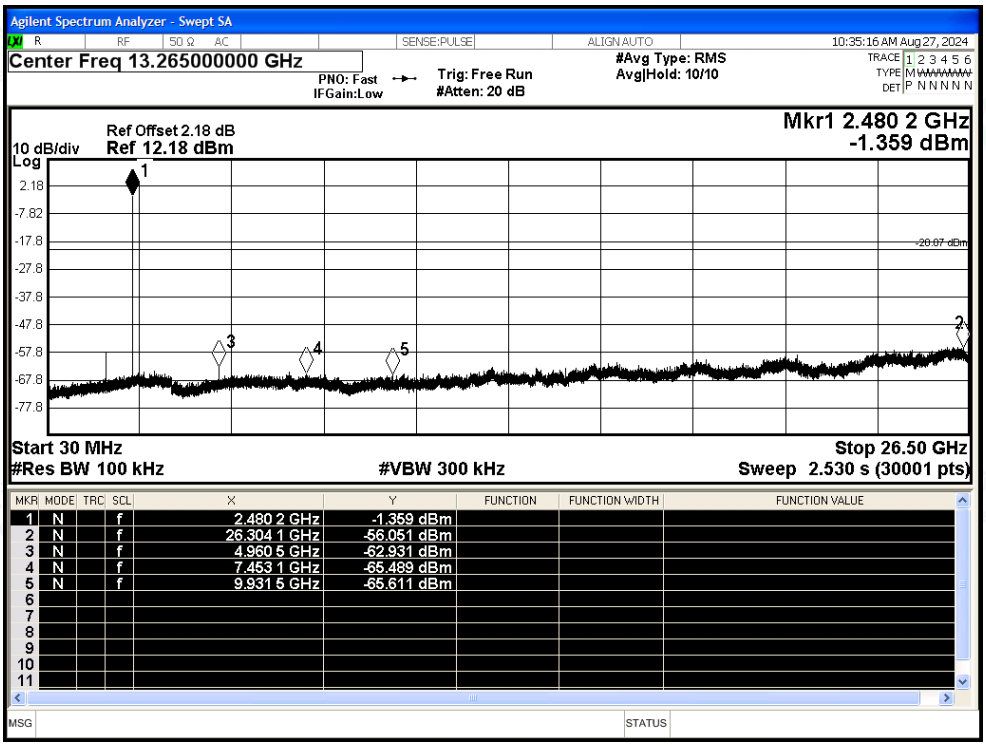
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



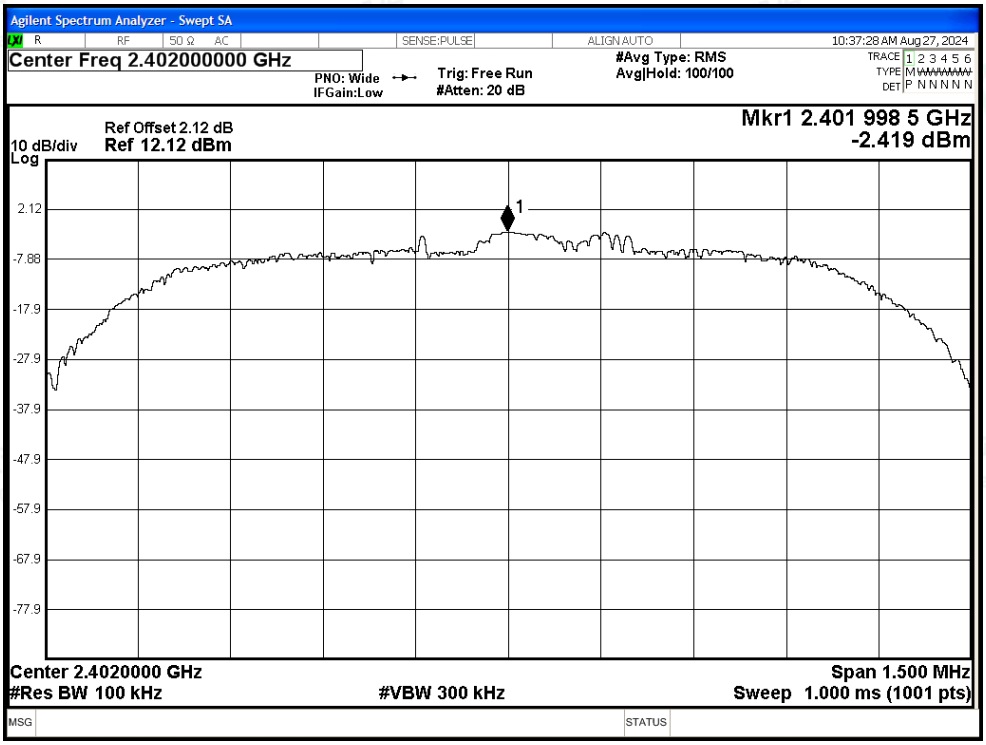
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



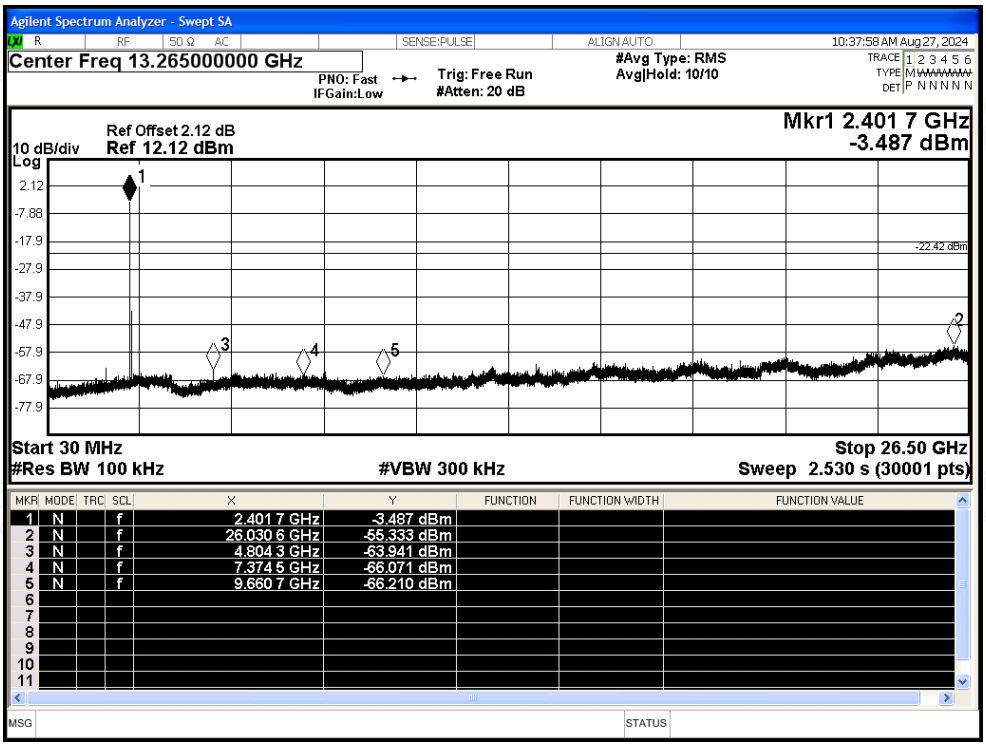
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



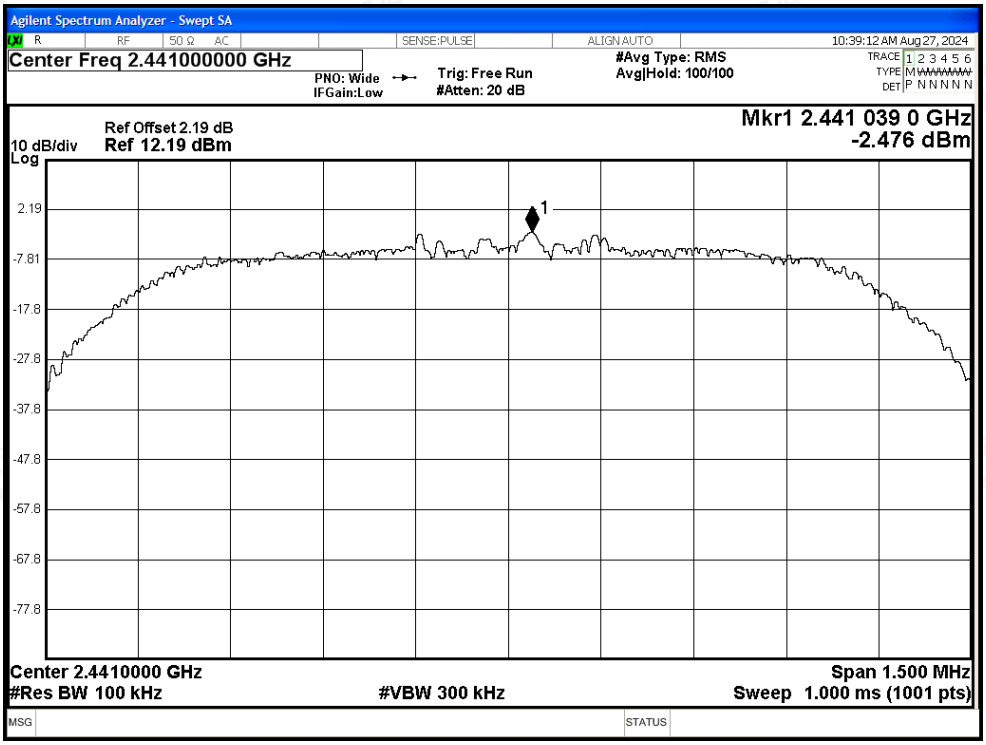
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



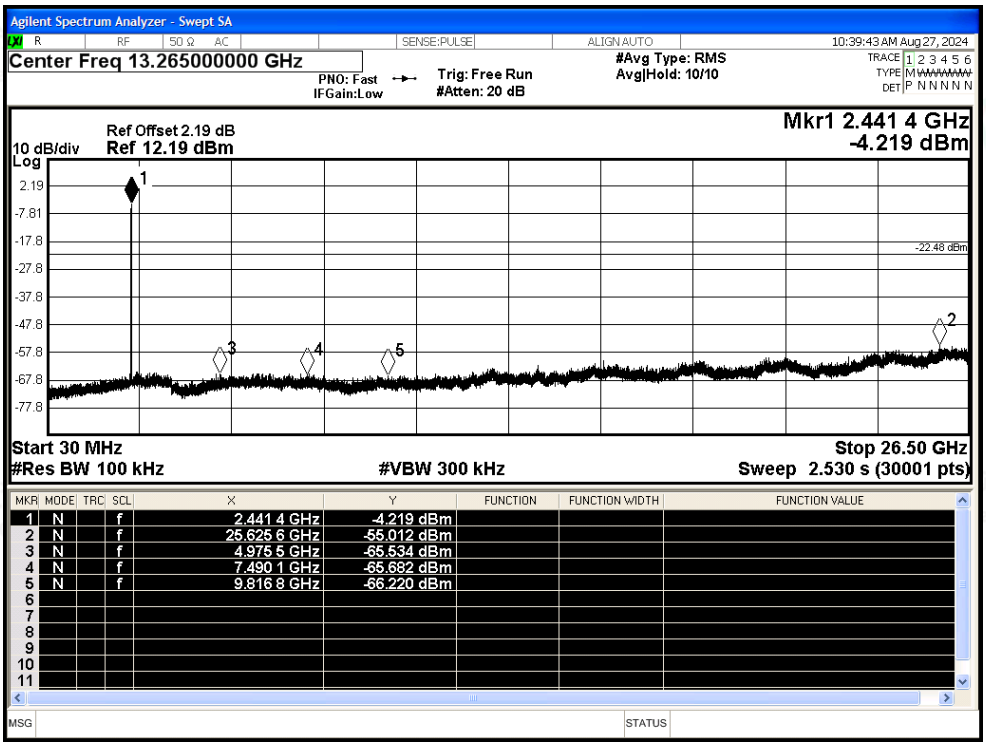
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



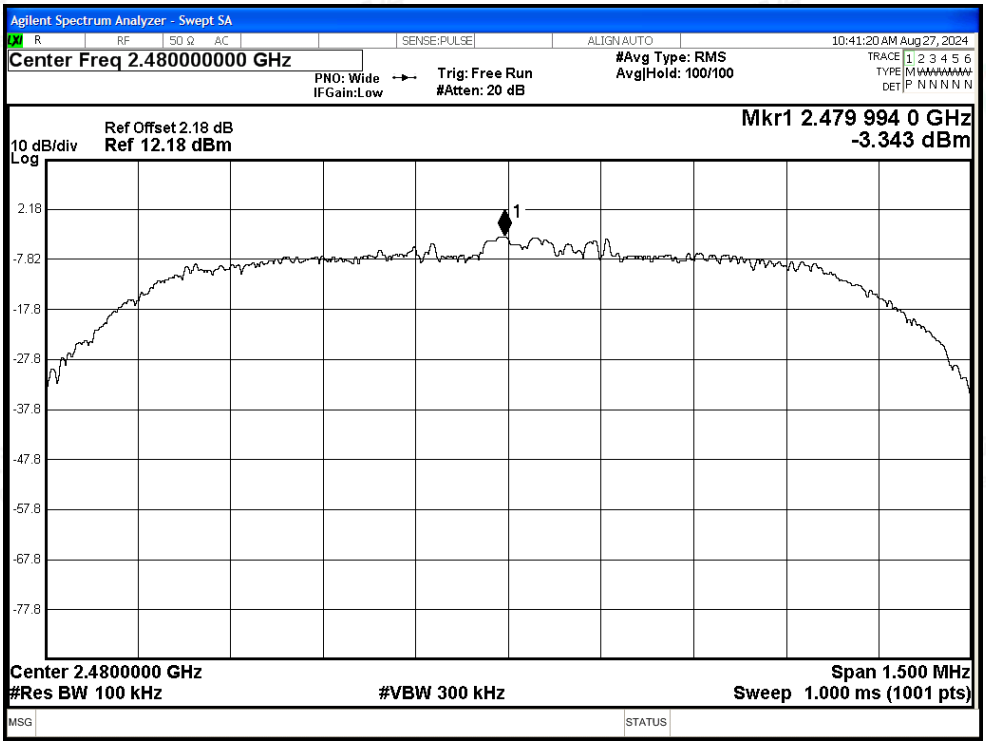
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



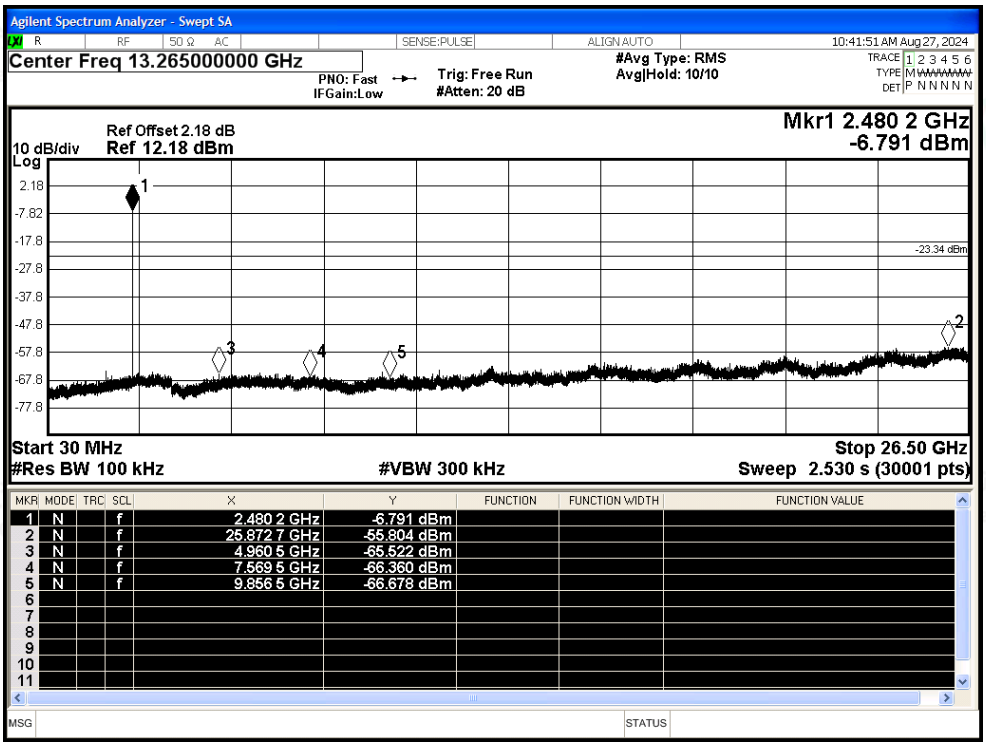
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



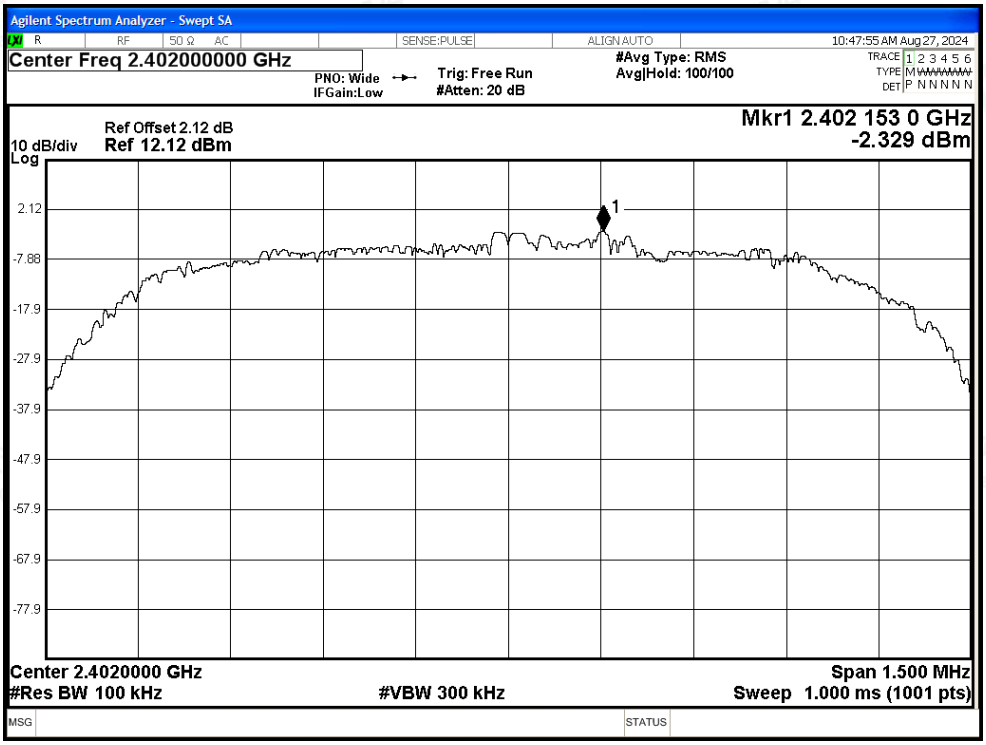
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



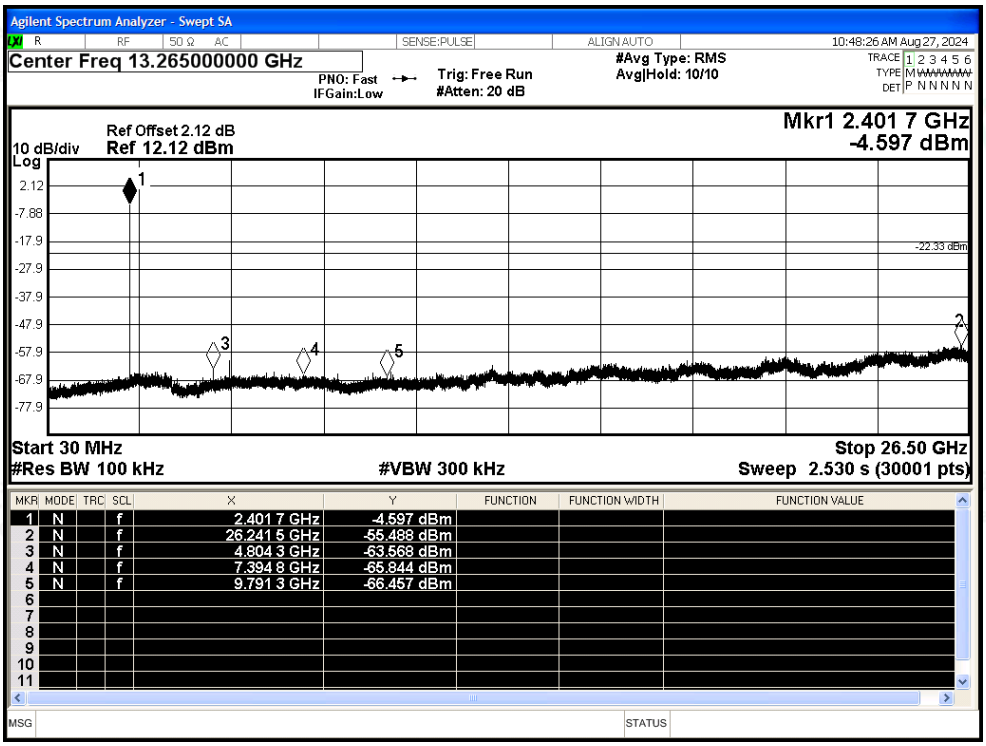
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref

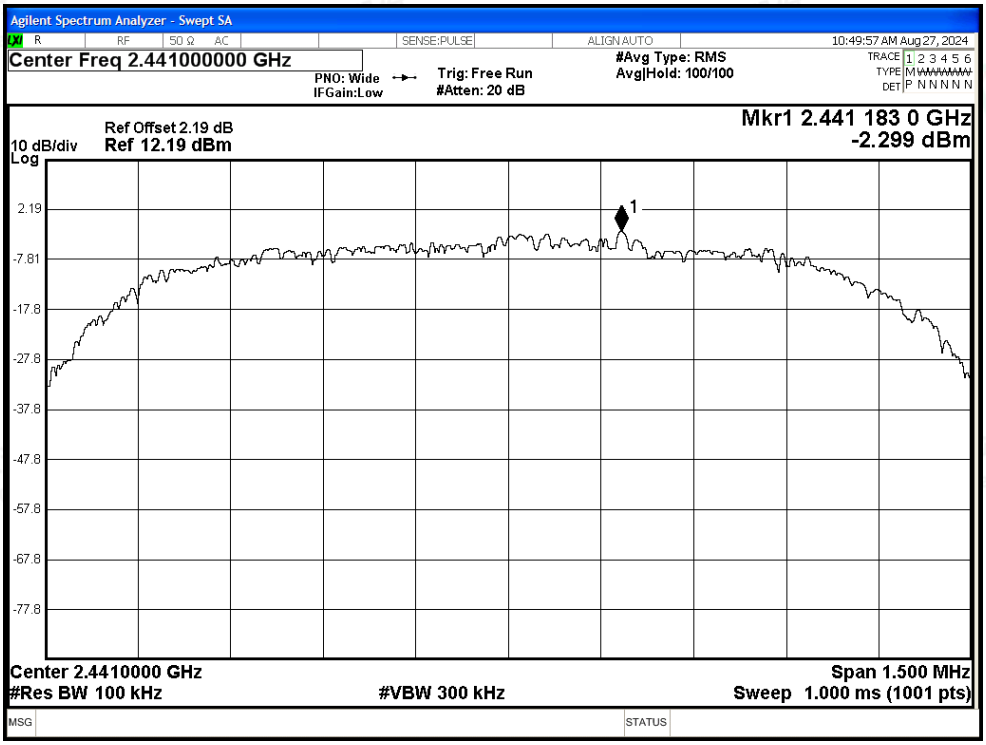


Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission

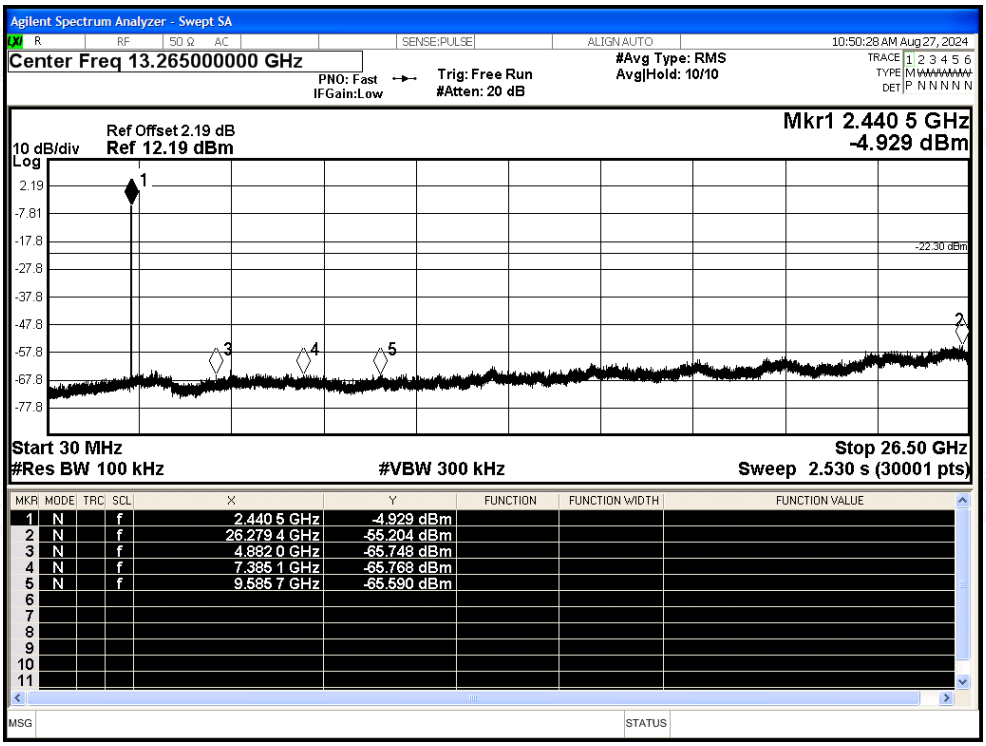


MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N		f	2.401 7 GHz	-4.597 dBm			
2	N		f	26.241 5 GHz	-55.488 dBm			
3	N		f	4.804 3 GHz	-63.568 dBm			
4	N		f	7.394 8 GHz	-65.844 dBm			
5	N		f	9.791 3 GHz	-66.457 dBm			
6								
7								
8								
9								
10								
11								

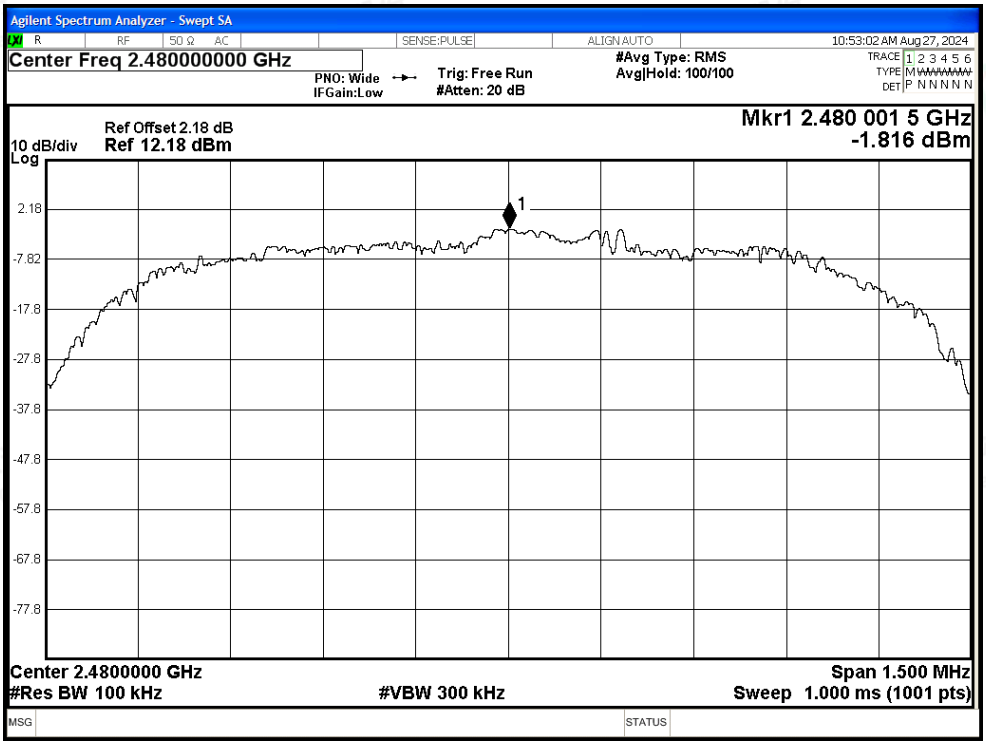
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



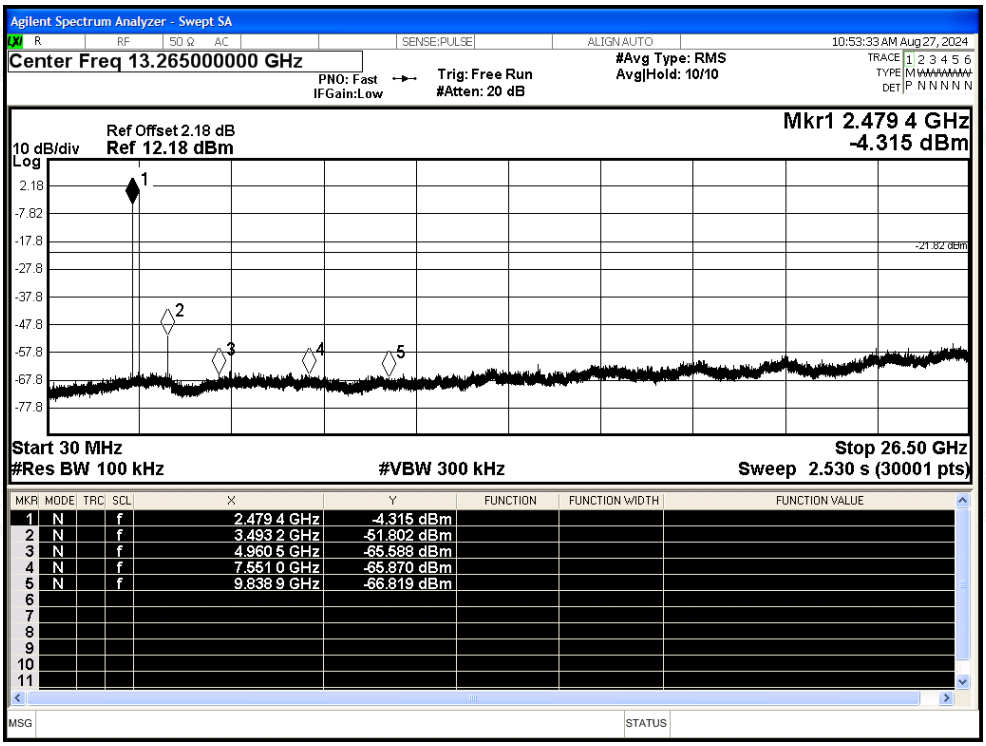
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission

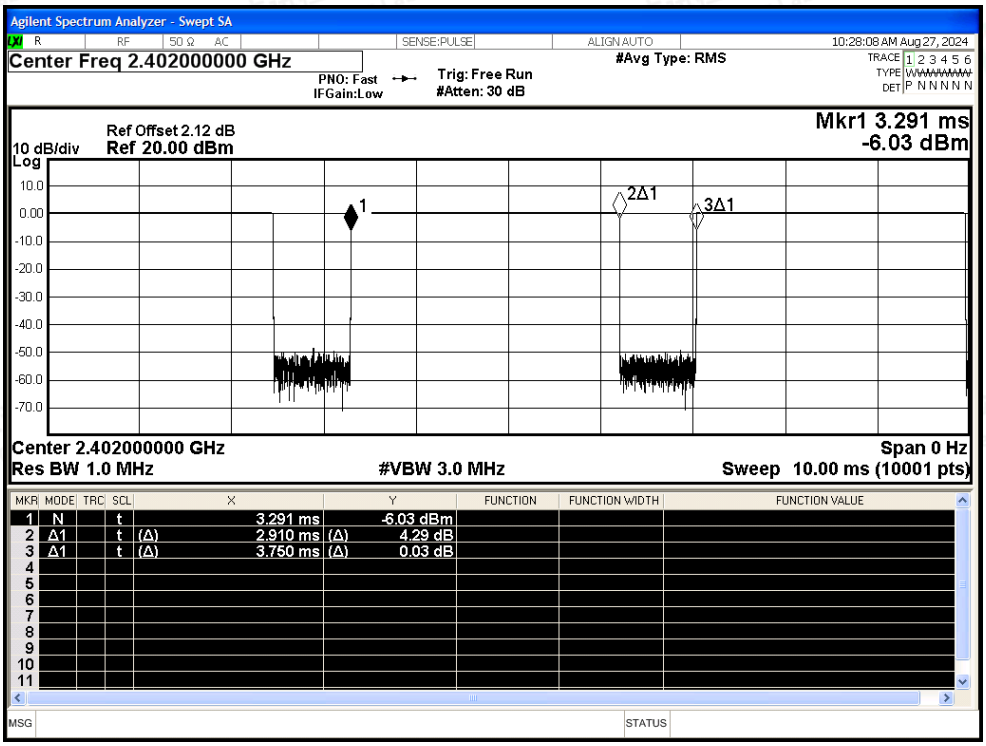


A.8 Duty Cycle

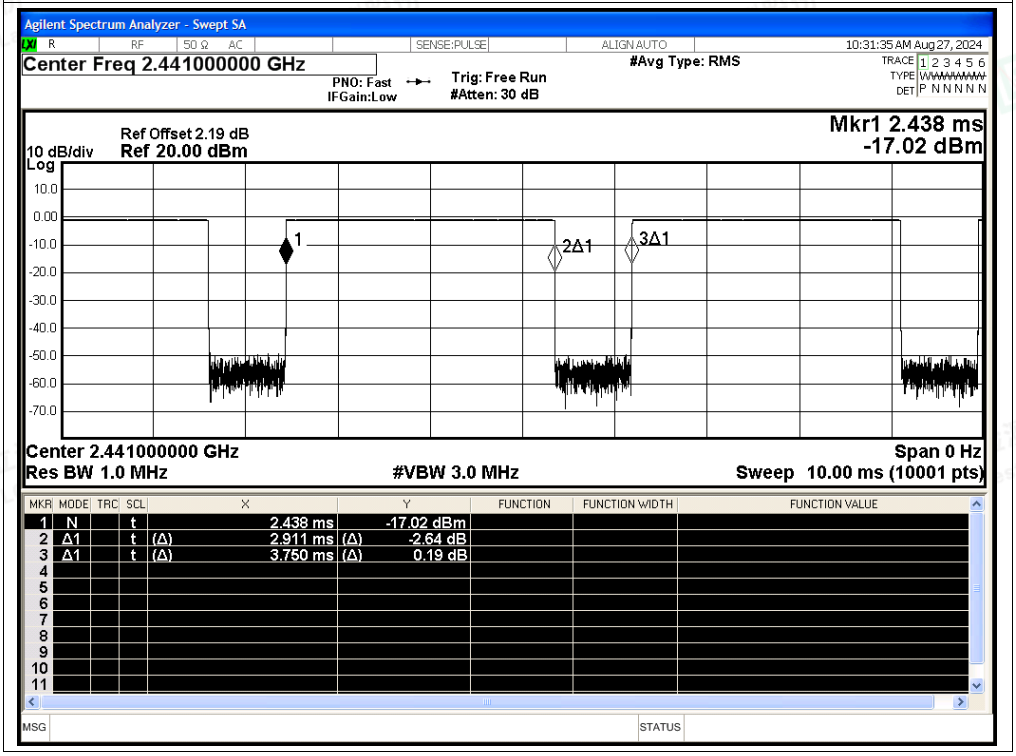
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	77.6	1.1	0.34
NVNT	1-DH5	2441	Ant1	77.63	1.1	0.34
NVNT	1-DH5	2480	Ant1	77.6	1.1	0.34
NVNT	2-DH5	2402	Ant1	77.28	1.12	0.35
NVNT	2-DH5	2441	Ant1	77.28	1.12	0.35
NVNT	2-DH5	2480	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2402	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2441	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2480	Ant1	77.28	1.12	0.35

Test Graphs

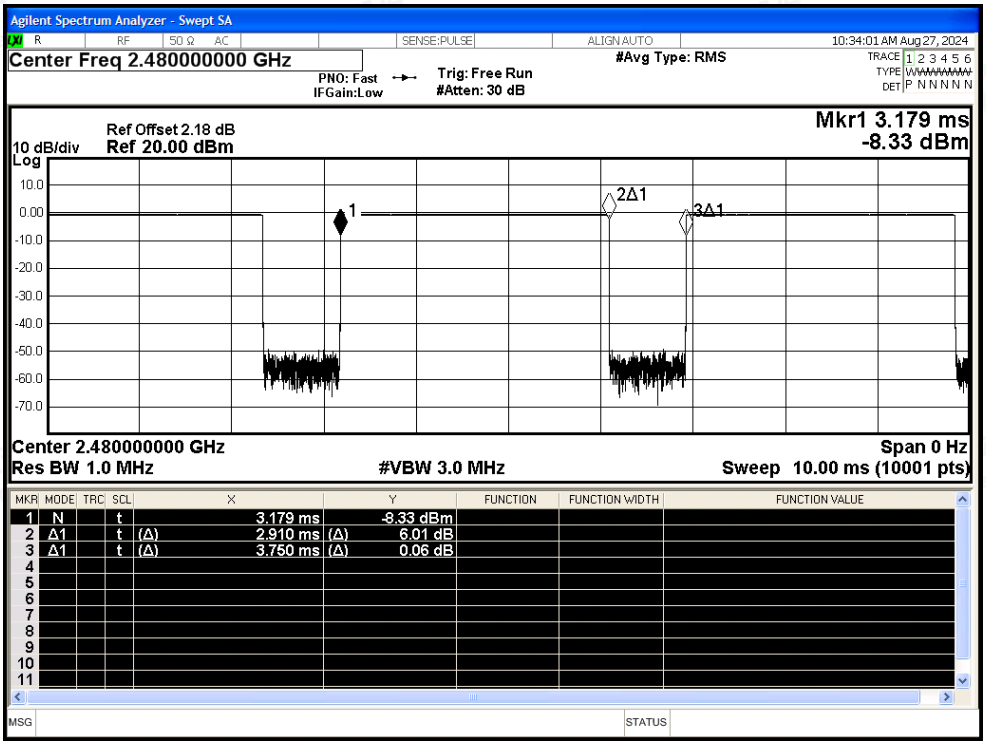
Duty Cycle NVNT 1-DH5 2402MHz Ant1



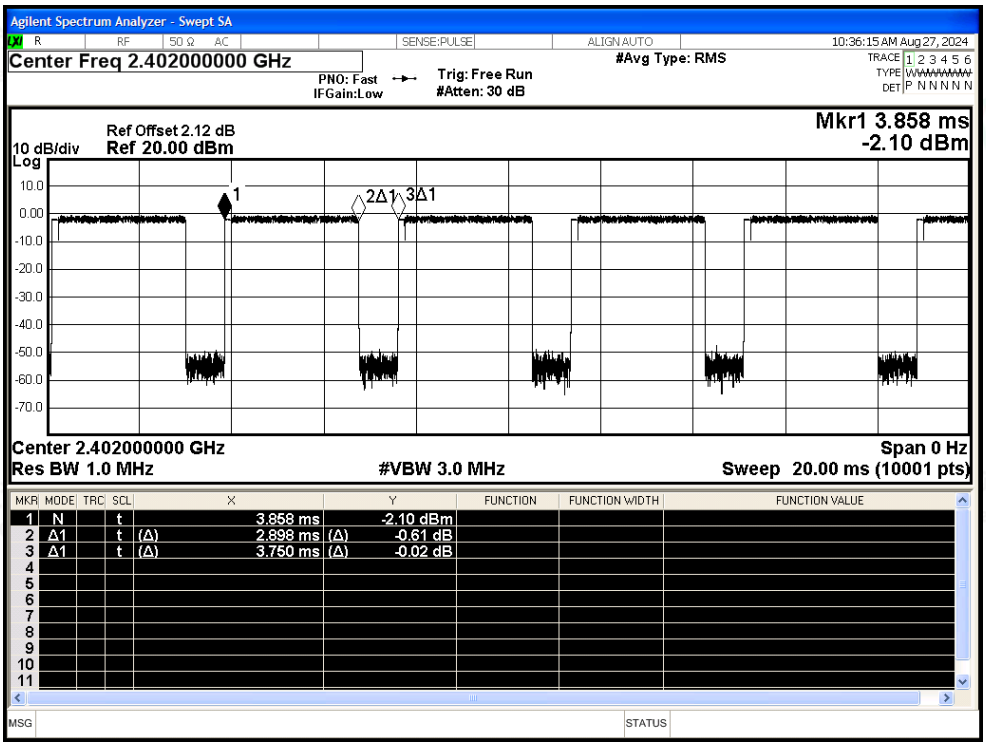
Duty Cycle NVNT 1-DH5 2441MHz Ant1



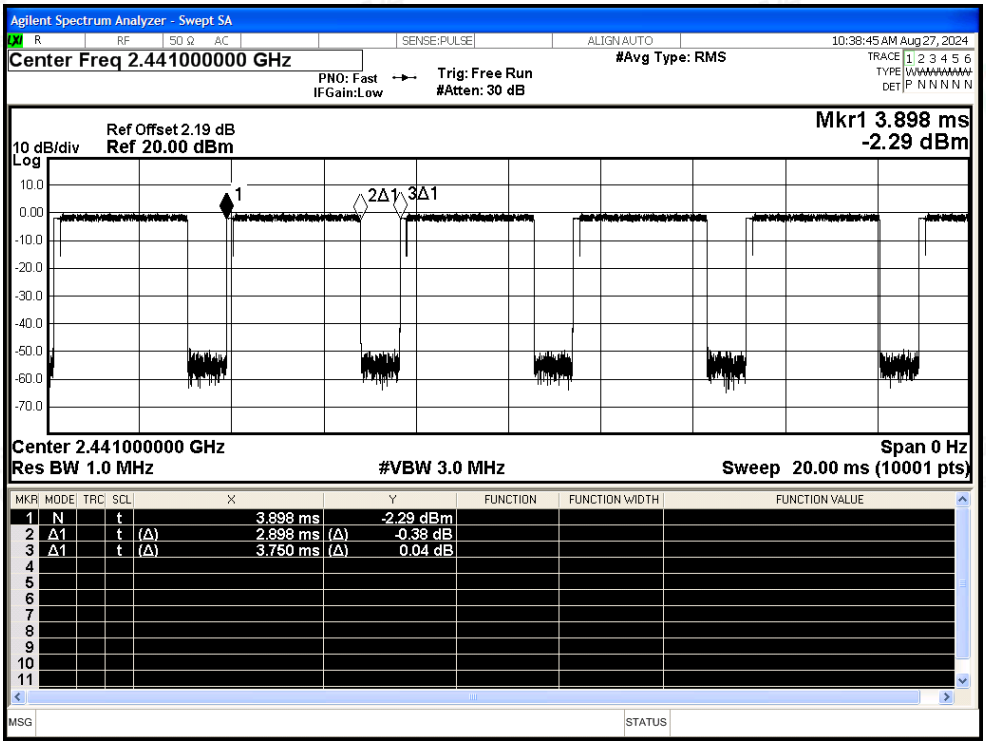
Duty Cycle NVNT 1-DH5 2480MHz Ant1



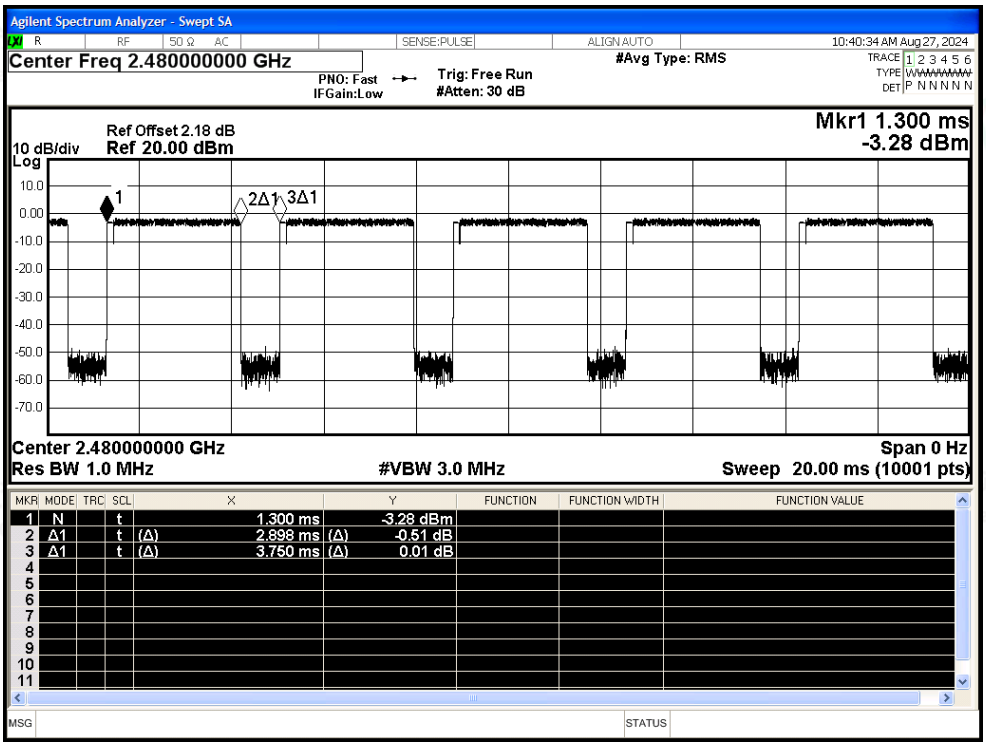
Duty Cycle NVNT 2-DH5 2402MHz Ant1



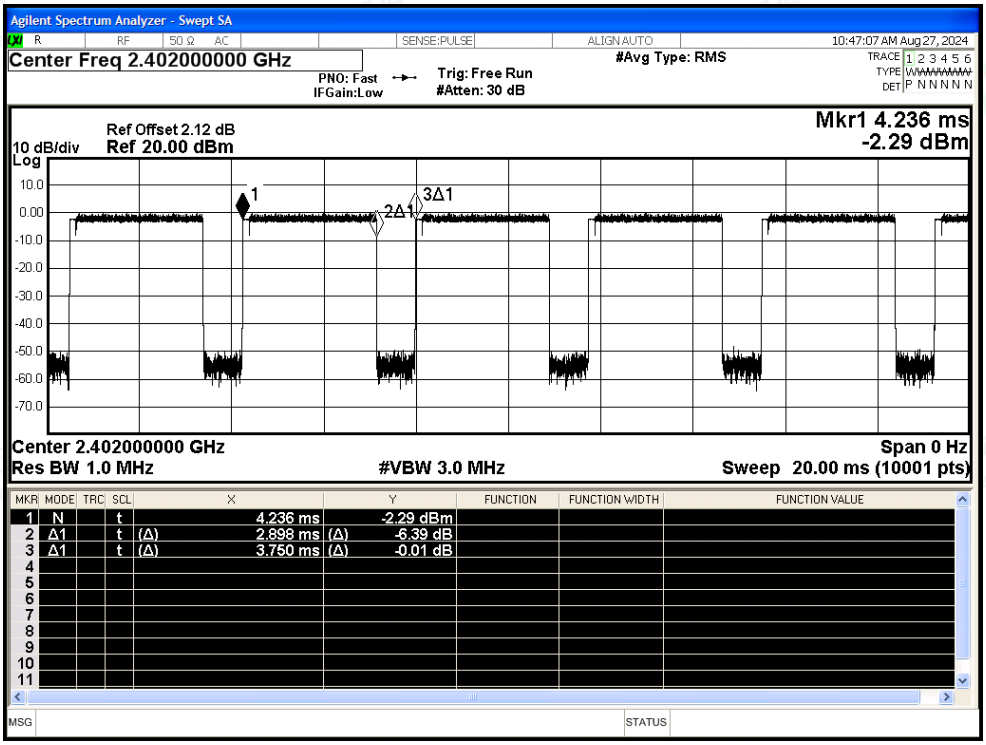
Duty Cycle NVNT 2-DH5 2441MHz Ant1



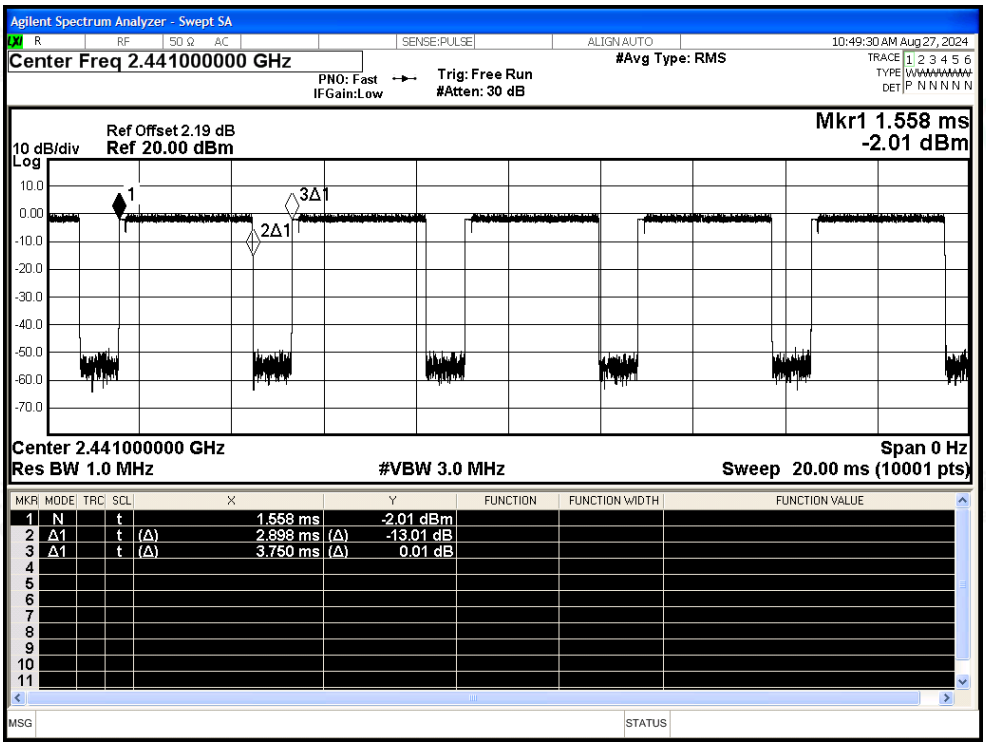
Duty Cycle NVNT 2-DH5 2480MHz Ant1



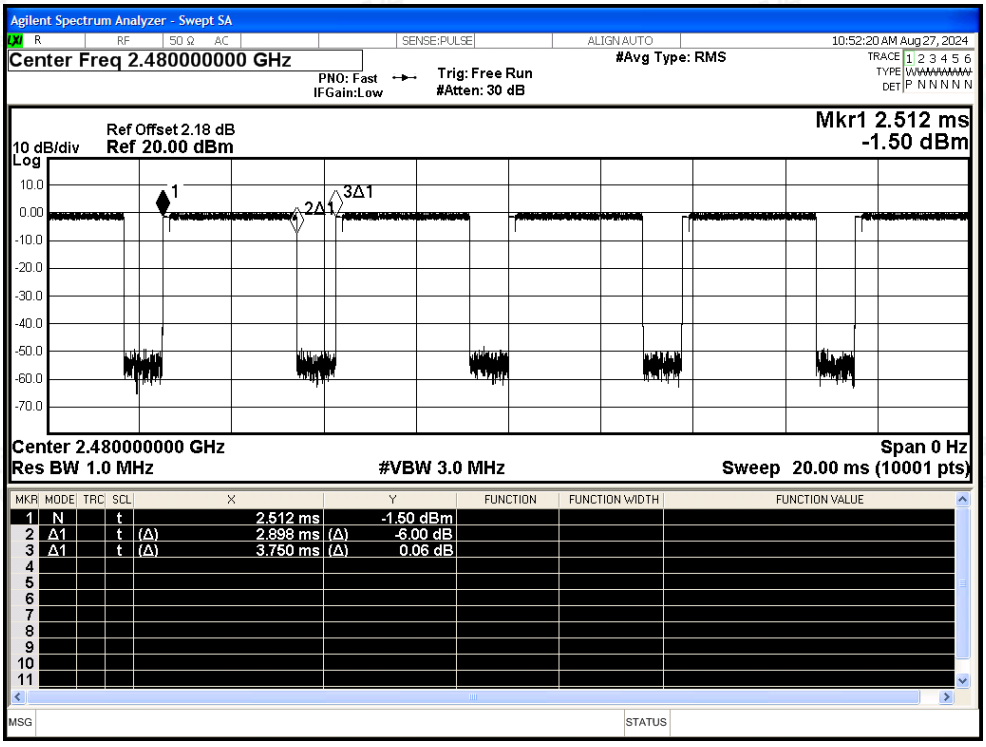
Duty Cycle NVNT 3-DH5 2402MHz Ant1



Duty Cycle NVNT 3-DH5 2441MHz Ant1



Duty Cycle NVNT 3-DH5 2480MHz Ant1

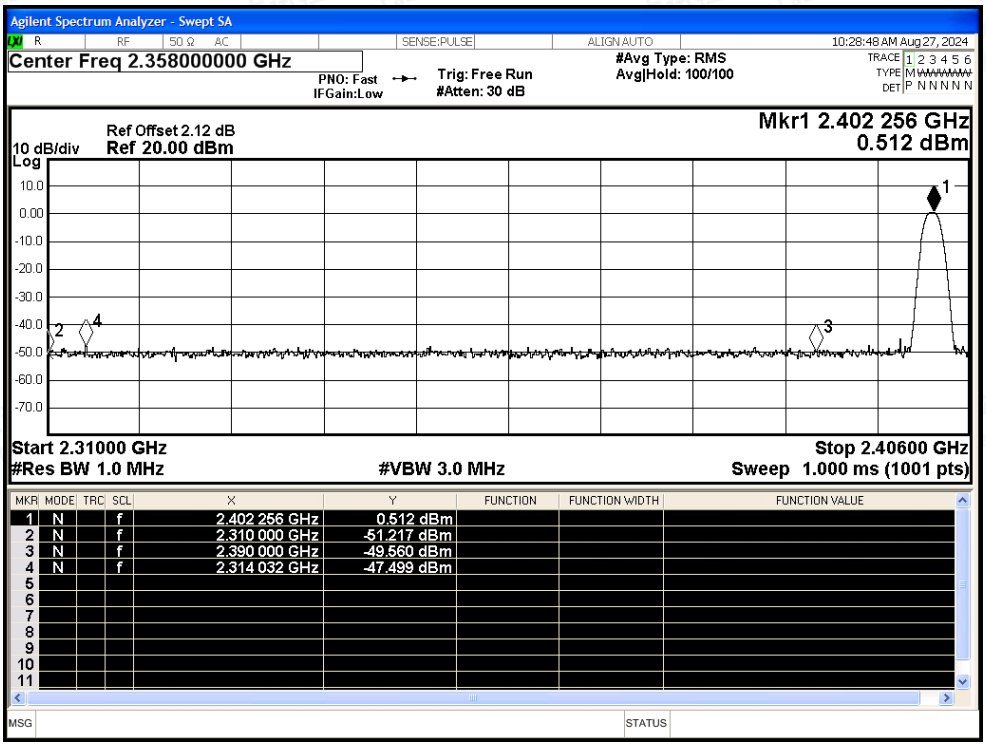


A.9 Restrict Band

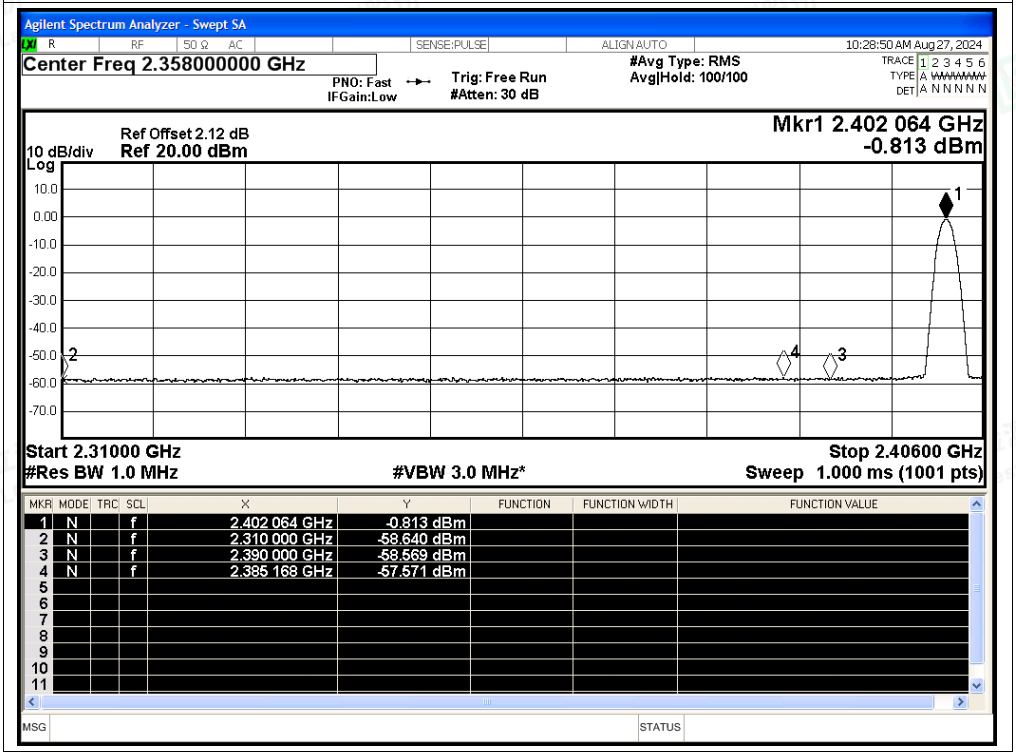
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-51.22	2	-	46.04	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-58.64	2	1.1	39.72	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2314.032	-47.5	2	-	49.76	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2385.168	-57.57	2	1.1	40.79	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-49.56	2	-	47.7	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-58.57	2	1.1	39.79	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.3	2	-	47.96	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-58.16	2	1.1	40.2	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.544	-44.31	2	-	52.95	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.944	-57.15	2	1.1	41.21	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.81	2	-	46.45	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-58.29	2	1.1	40.07	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.12	2	-	46.14	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-59.09	2	1.12	39.29	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2368.08	-48.21	2	-	49.05	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2372.4	-57.58	2	1.12	40.8	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-48.59	2	-	48.67	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-58.68	2	1.12	39.7	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-49.54	2	-	47.72	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-57.77	2	1.12	40.61	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2484.304	-46	2	-	51.26	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2498.92	-57.3	2	1.12	41.08	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-49.94	2	-	47.32	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-58.31	2	1.12	40.07	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-50.42	2	-	46.84	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-58.62	2	1.12	39.76	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2343.216	-46.8	2	-	50.46	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2354.064	-57.66	2	1.12	40.72	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.07	2	-	47.19	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-58.17	2	1.12	40.21	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-47.97	2	-	49.29	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-57.59	2	1.12	40.79	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.656	-44.95	2	-	52.31	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.704	-56.04	2	1.12	42.34	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-49.21	2	-	48.05	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.75	2	1.12	40.63	Average	54	Pass

Test Graphs

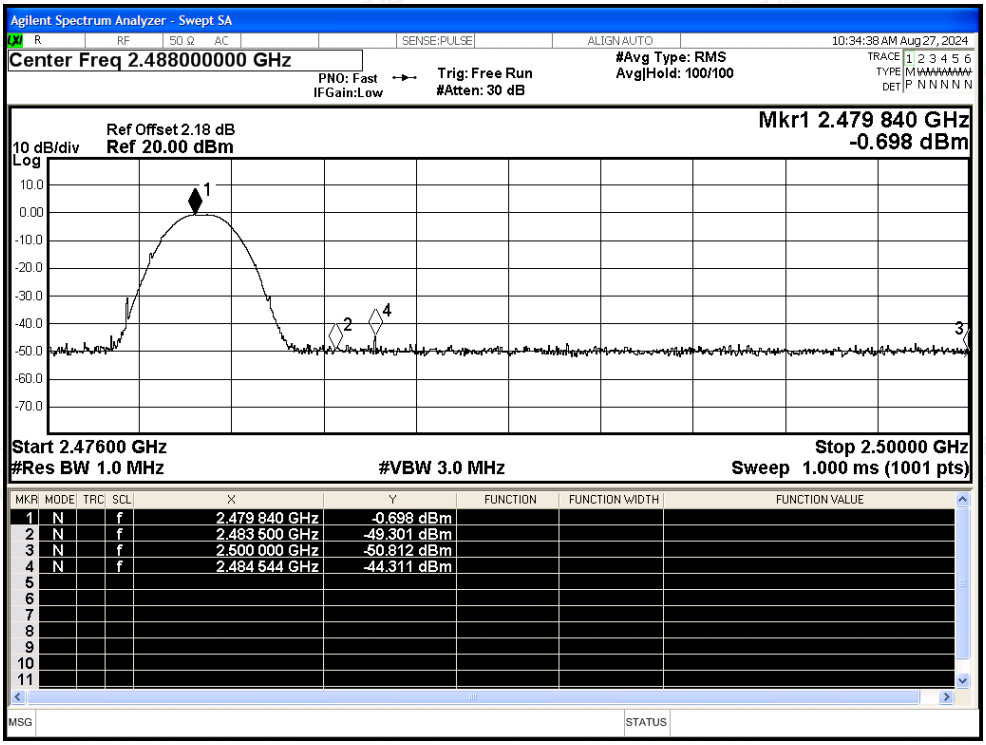
Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Peak



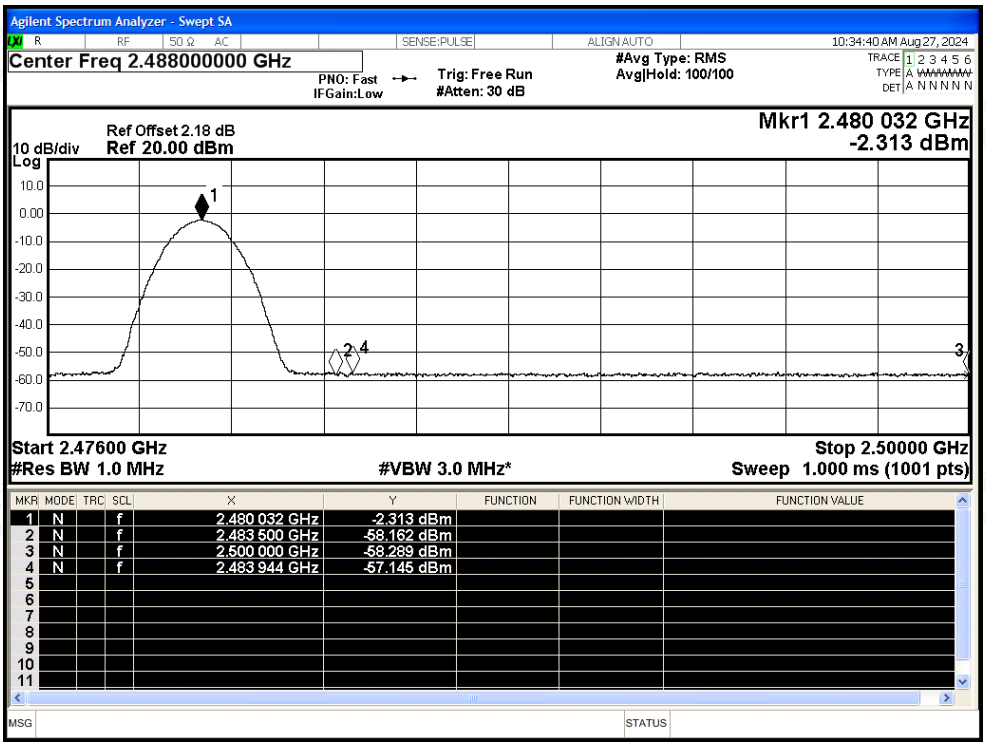
Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average



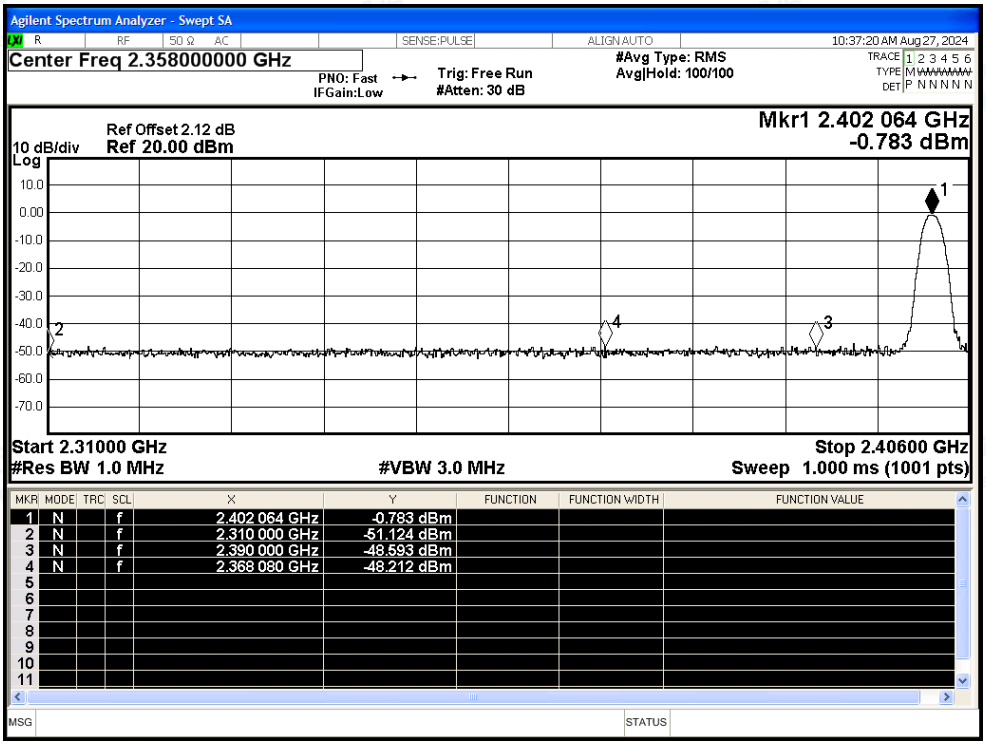
Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



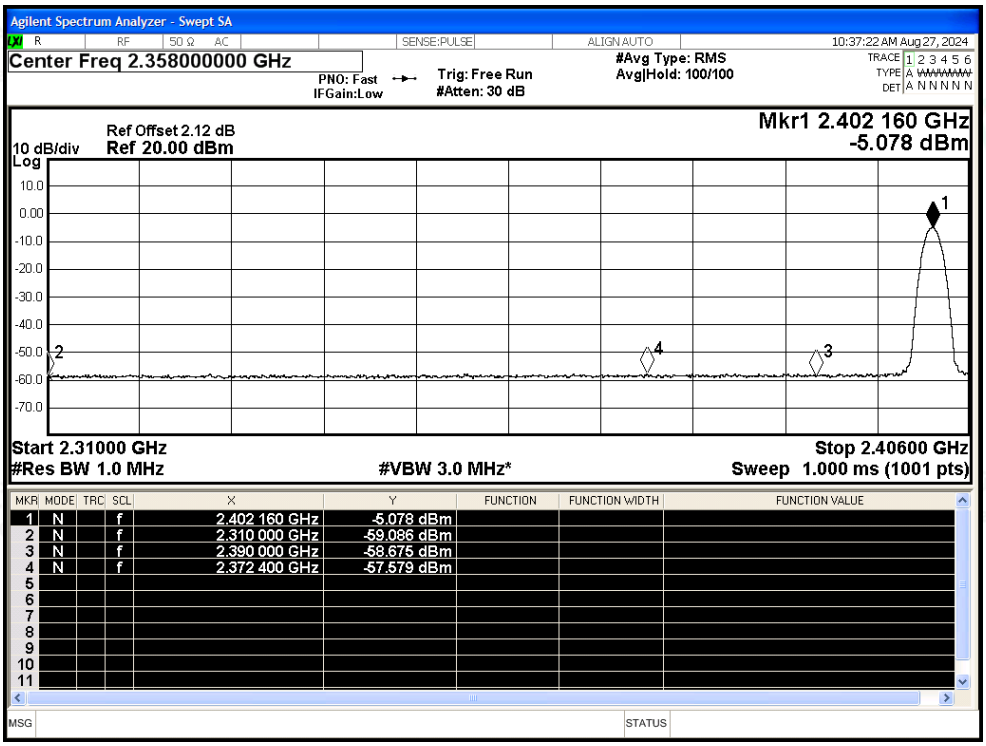
Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average



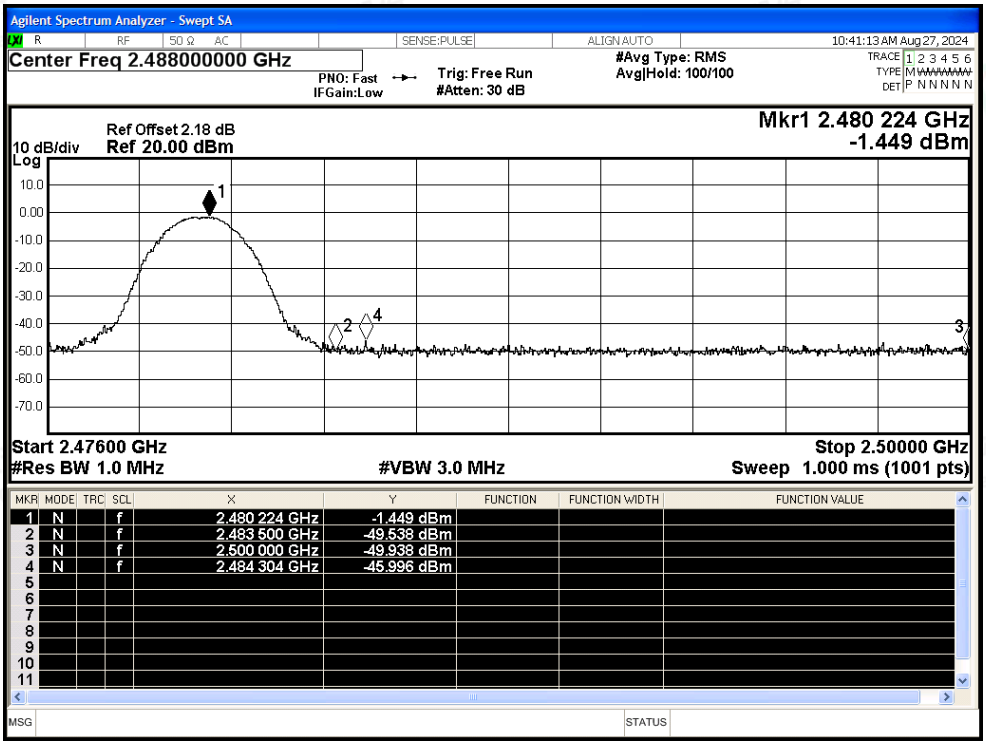
Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak



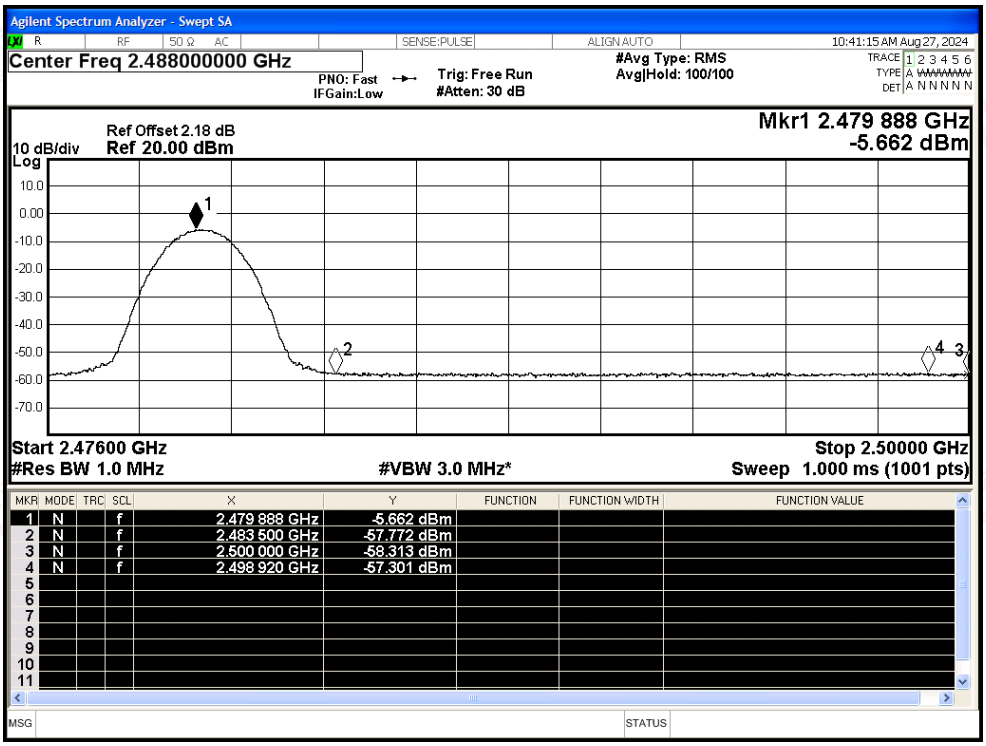
Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average



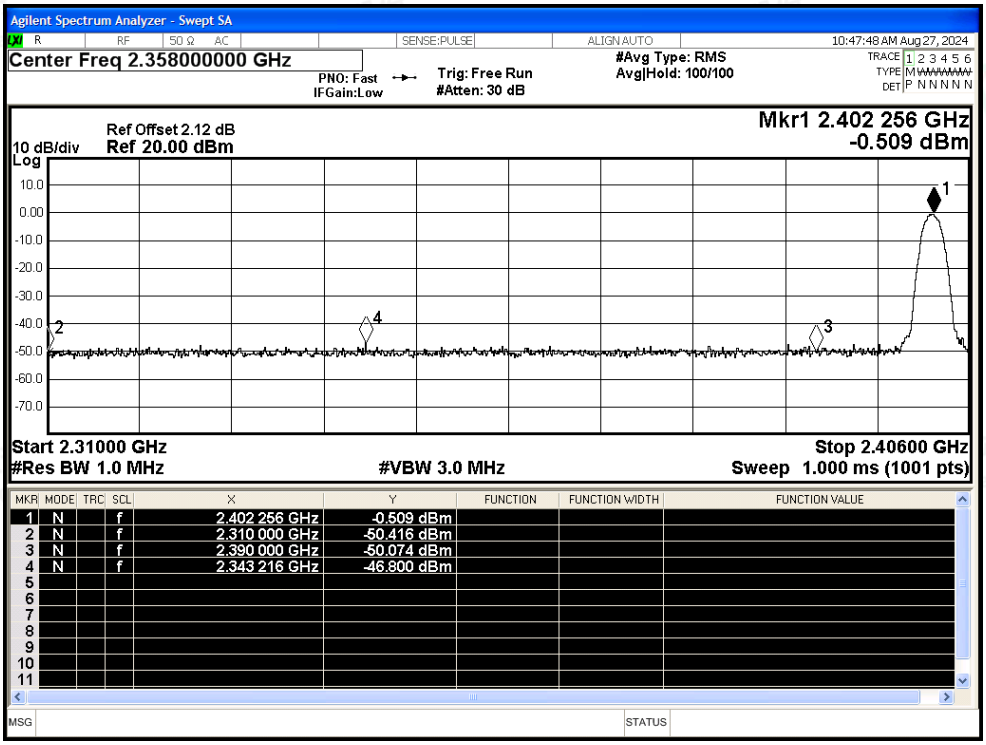
Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak



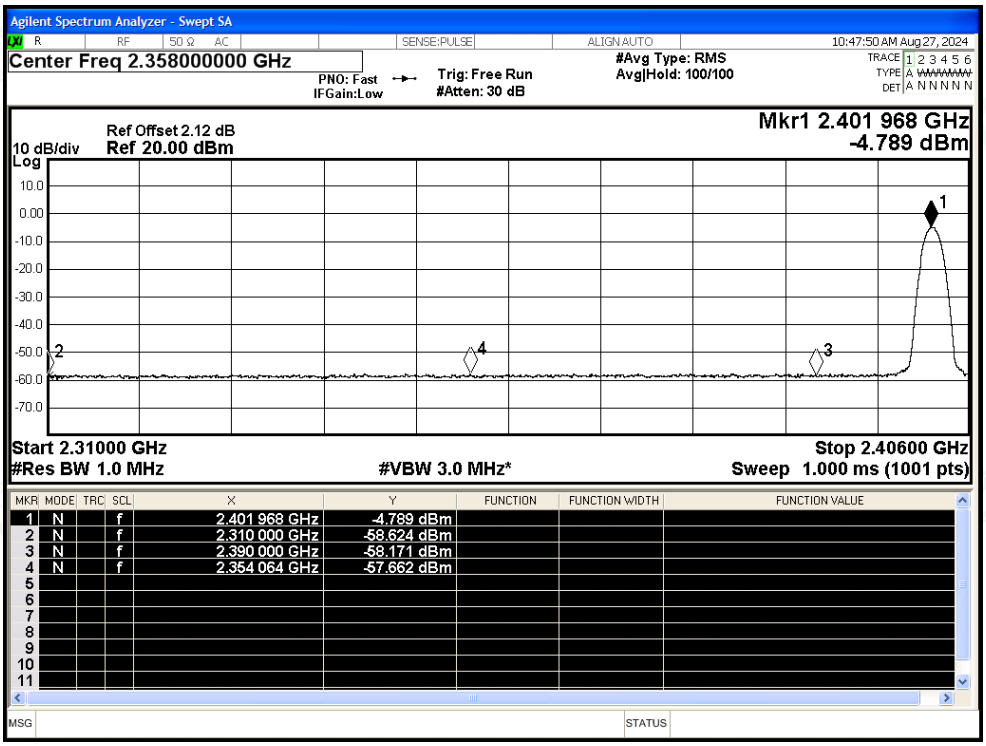
Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average



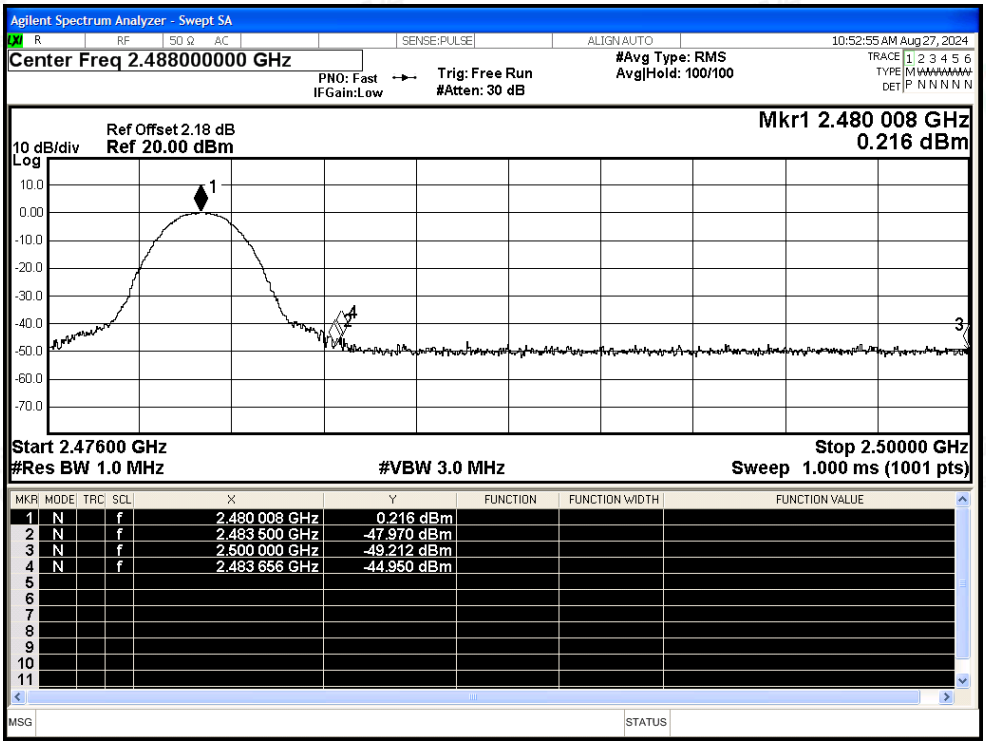
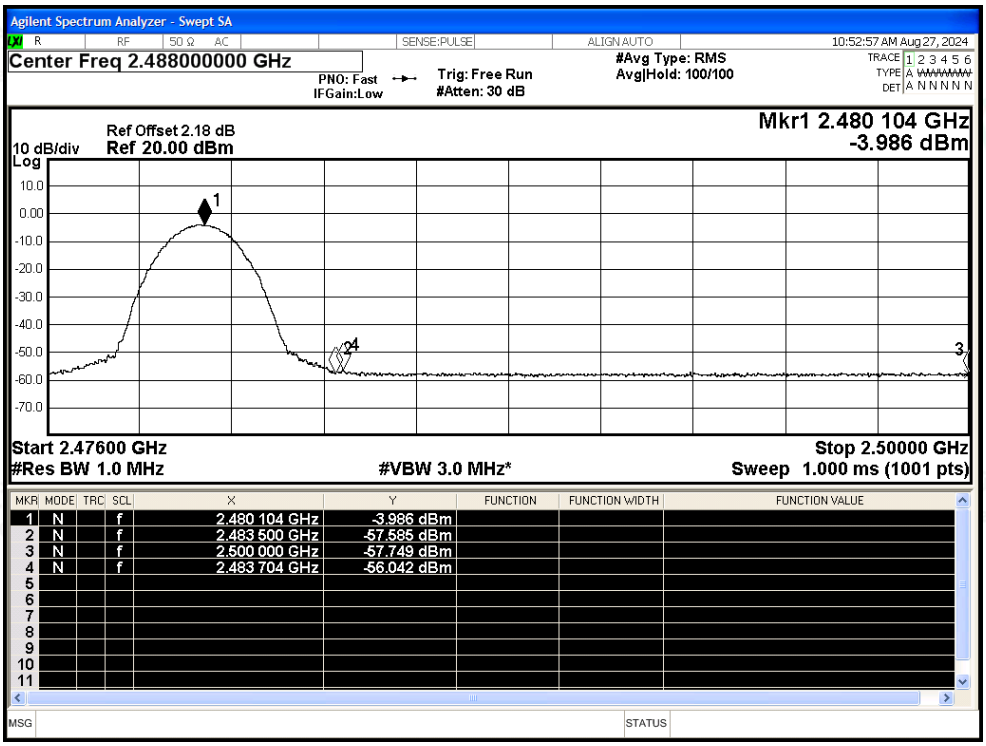
Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak



Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average



Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Peak



Restrict Band NVNT 3-DH5 2480MHz Ant1 No-Hopping Average