



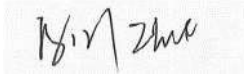
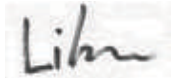
Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: AMPLIFIER

Test Model: P3201BT

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	 Bill Zhu
Supervised by:	 Li Huan



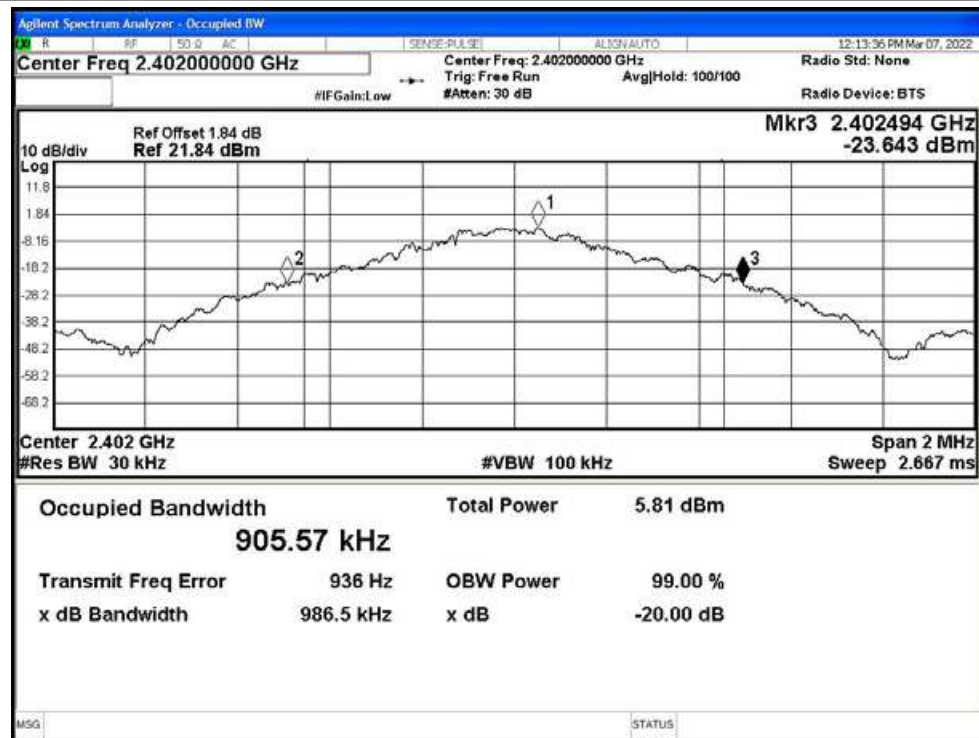
A.1 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.986	---	Pass
NVNT	1-DH5	2441	Ant1	0.983	---	Pass
NVNT	1-DH5	2480	Ant1	1.021	---	Pass
NVNT	2-DH5	2402	Ant1	1.29	---	Pass
NVNT	2-DH5	2441	Ant1	1.277	---	Pass
NVNT	2-DH5	2480	Ant1	1.277	---	Pass
NVNT	3-DH5	2402	Ant1	1.299	---	Pass
NVNT	3-DH5	2441	Ant1	1.296	---	Pass
NVNT	3-DH5	2480	Ant1	1.3	---	Pass



Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

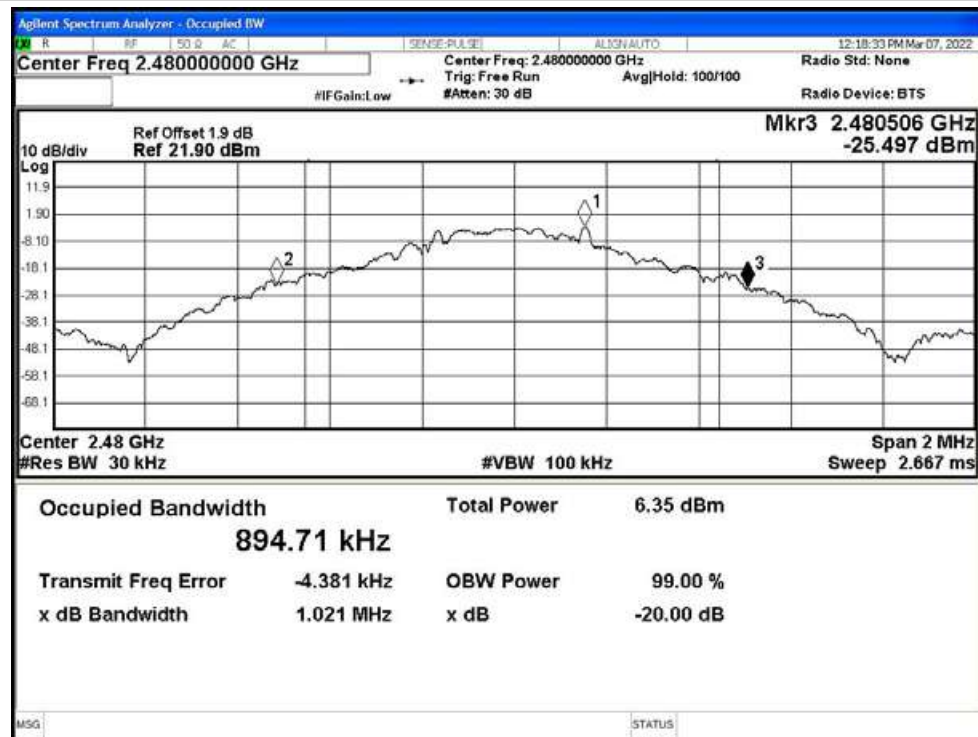


-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1





-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1

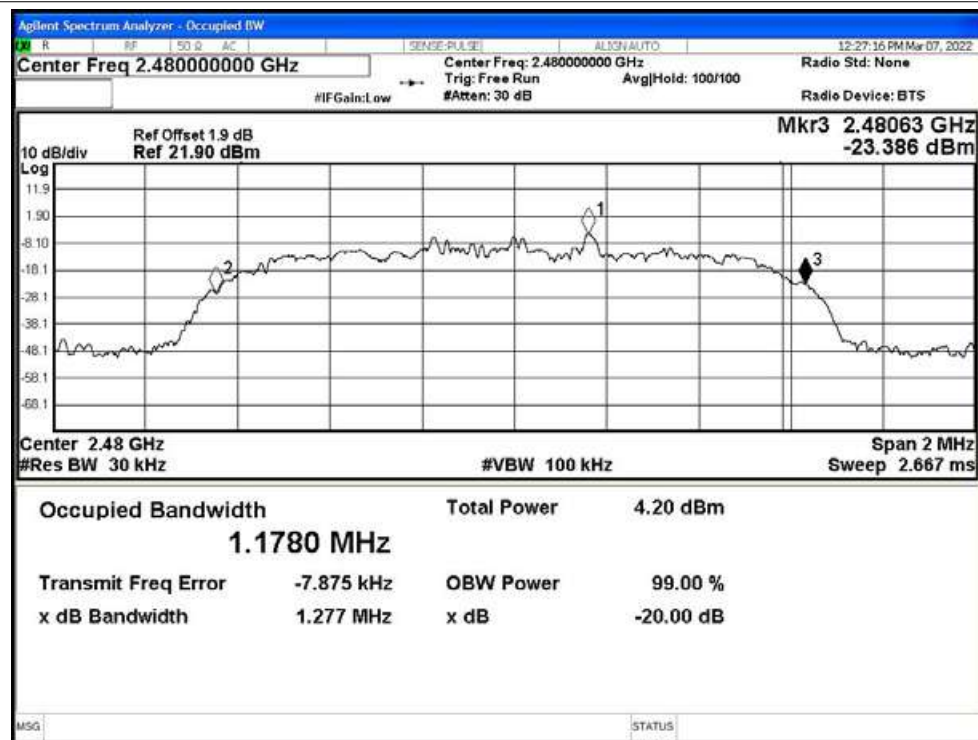




-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1

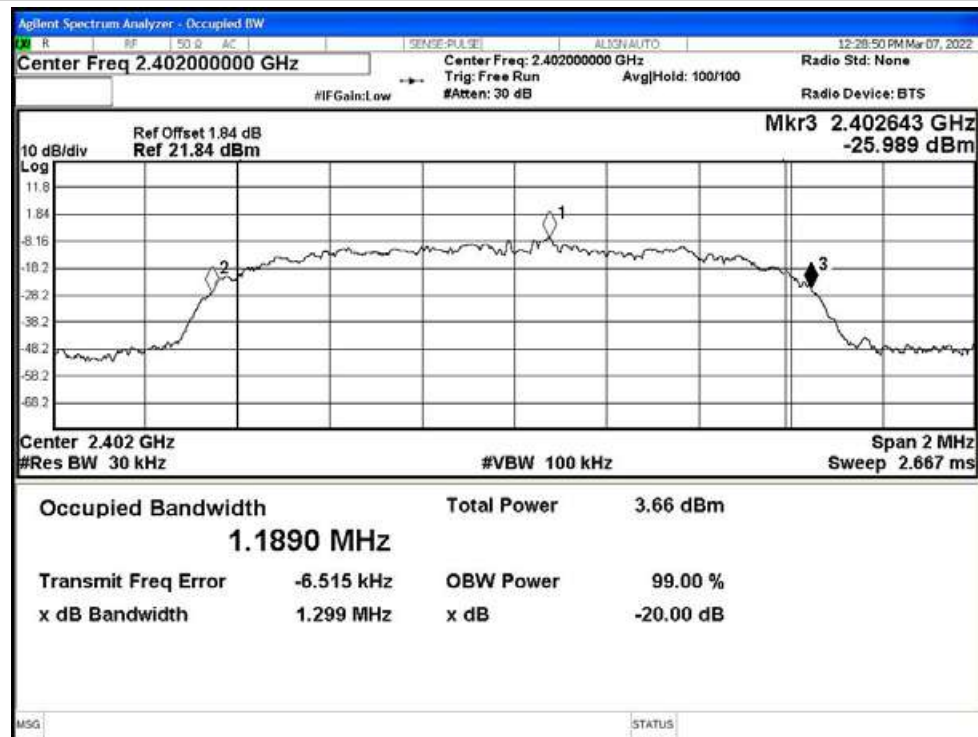


-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

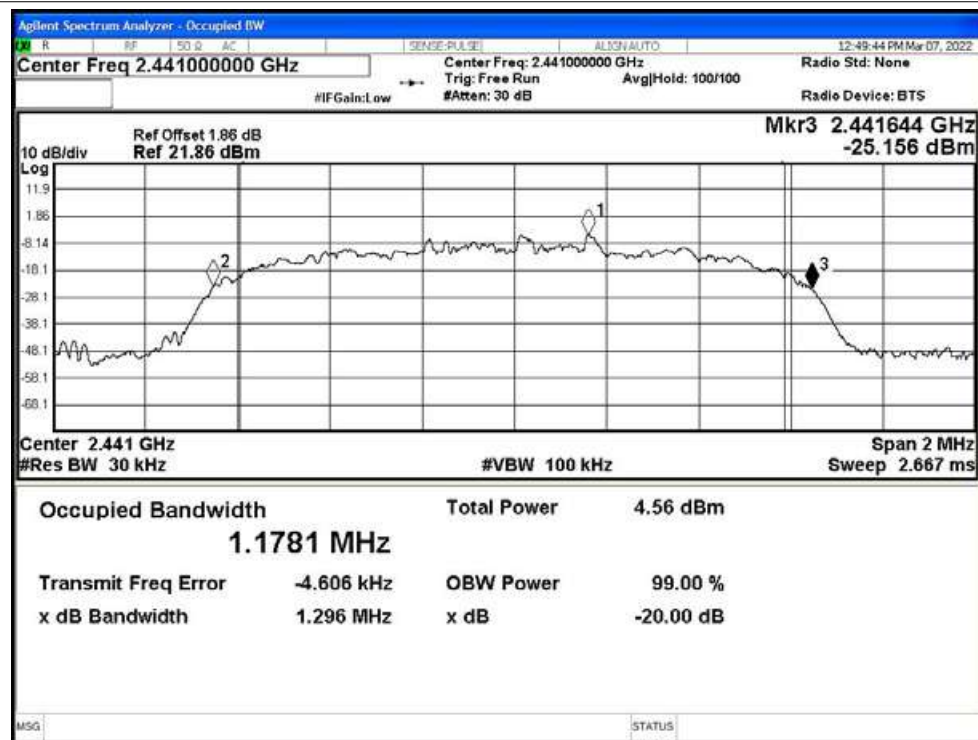




-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1

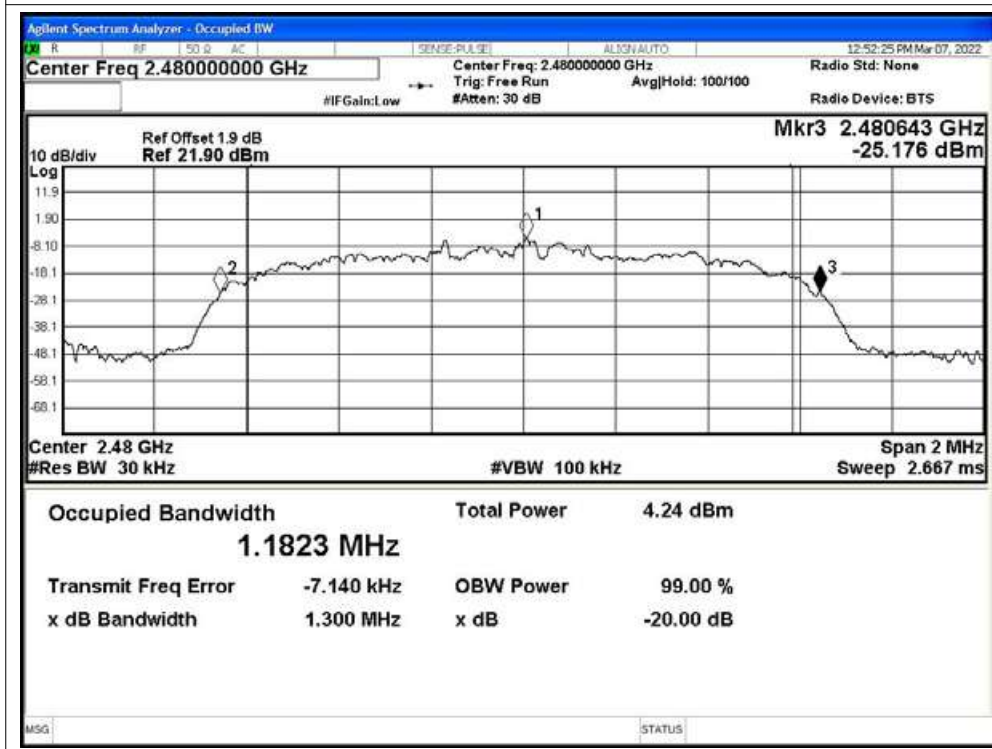


-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1





-20dB Bandwidth NVNT 3-DH5 2480MHz Ant1





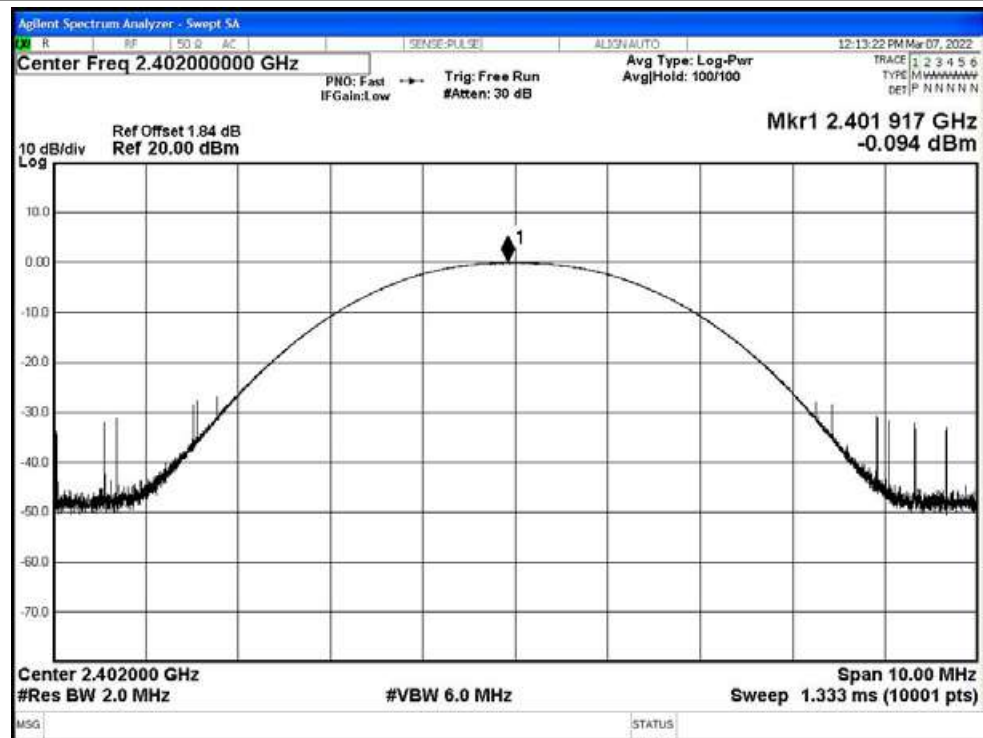
A.2 Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-0.09	≤20.97	Pass
NVNT	1-DH5	2441	Ant1	0.27	≤20.97	Pass
NVNT	1-DH5	2480	Ant1	-0.13	≤20.97	Pass
NVNT	2-DH5	2402	Ant1	-0.31	≤20.97	Pass
NVNT	2-DH5	2441	Ant1	-0.03	≤20.97	Pass
NVNT	2-DH5	2480	Ant1	-0.33	≤20.97	Pass
NVNT	3-DH5	2402	Ant1	-0.26	≤20.97	Pass
NVNT	3-DH5	2441	Ant1	0.14	≤20.97	Pass
NVNT	3-DH5	2480	Ant1	-0.22	≤20.97	Pass

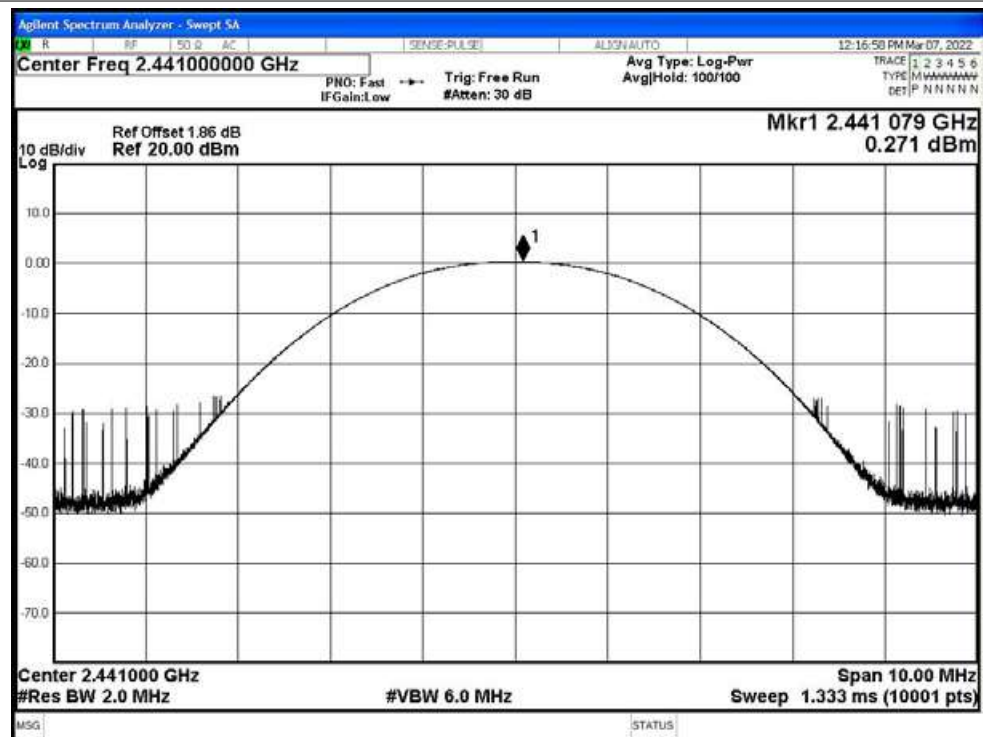


Test Graphs

Power NVNT 1-DH5 2402MHz Ant1

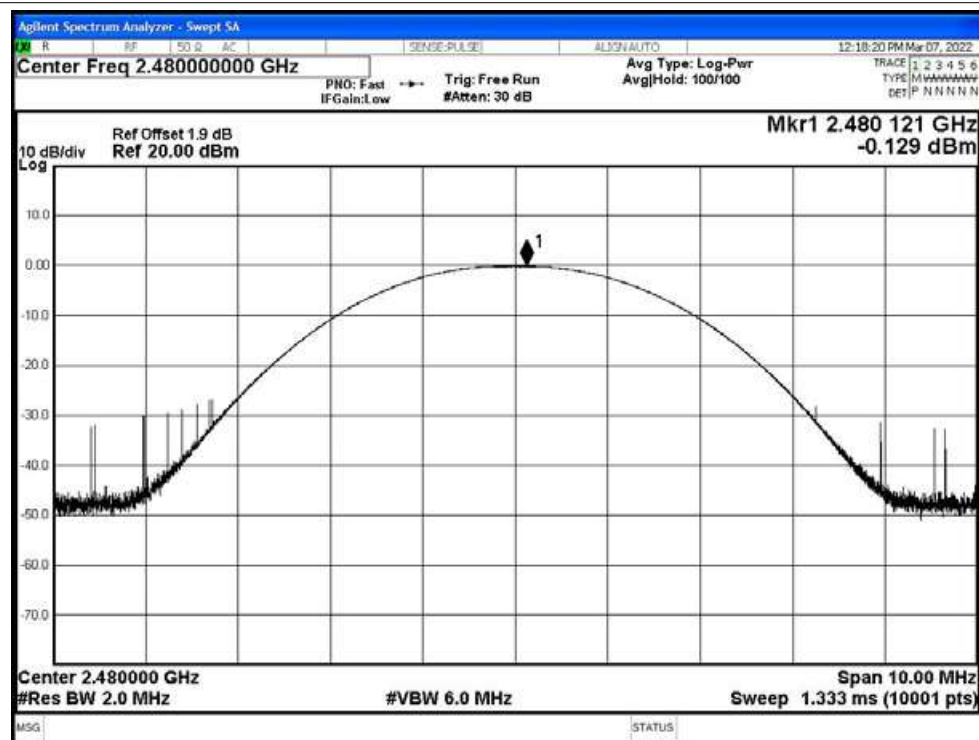


Power NVNT 1-DH5 2441MHz Ant1

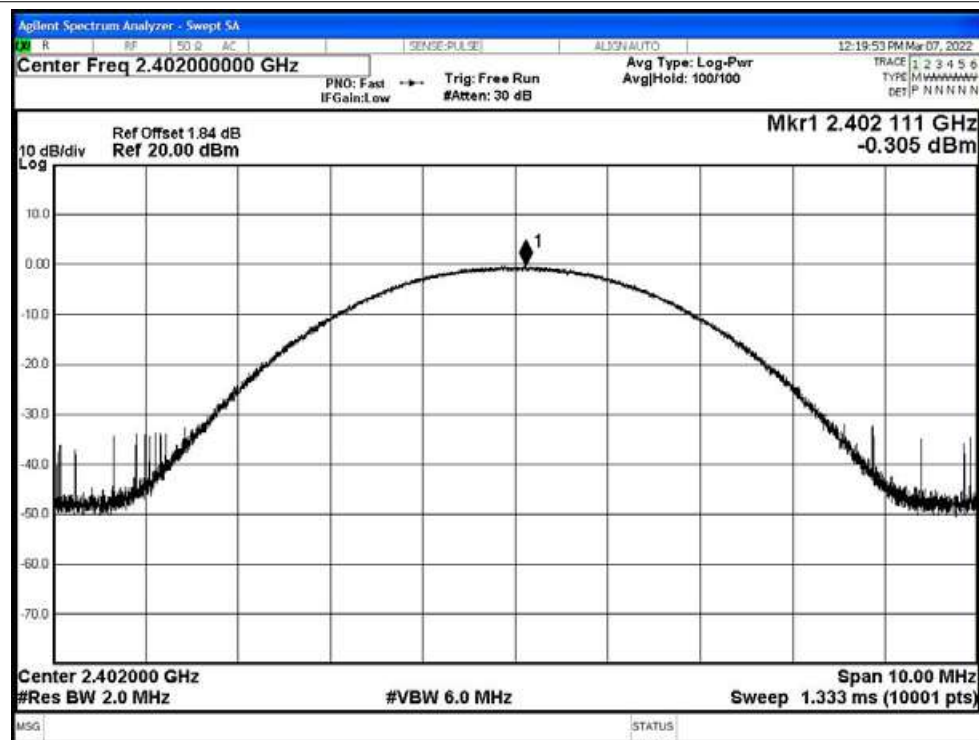




Power NVNT 1-DH5 2480MHz Ant1

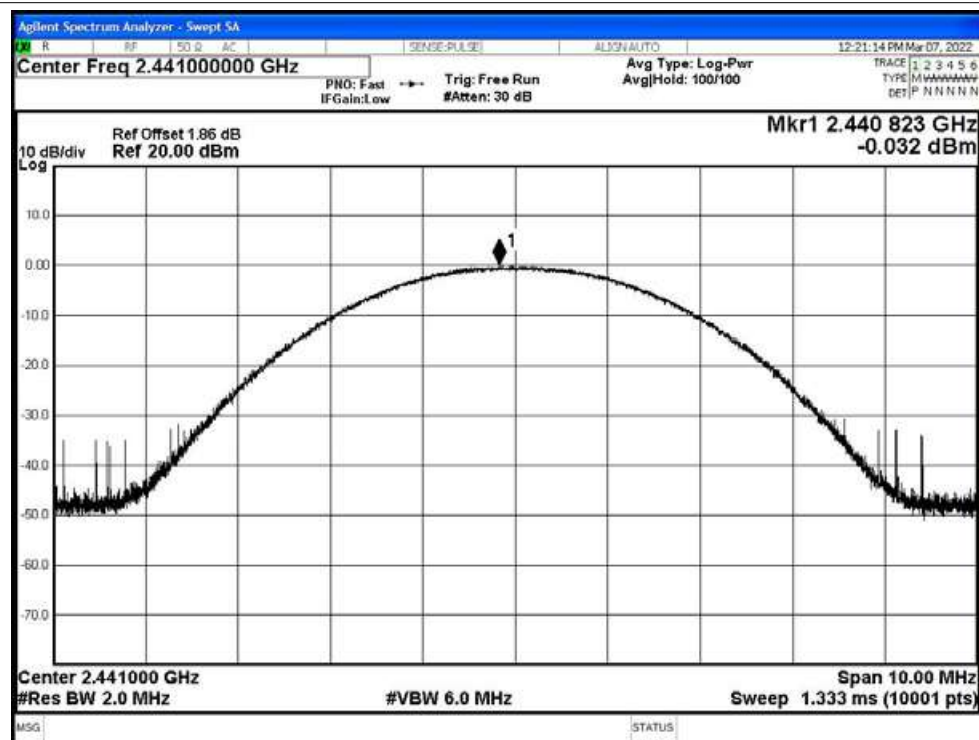


Power NVNT 2-DH5 2402MHz Ant1

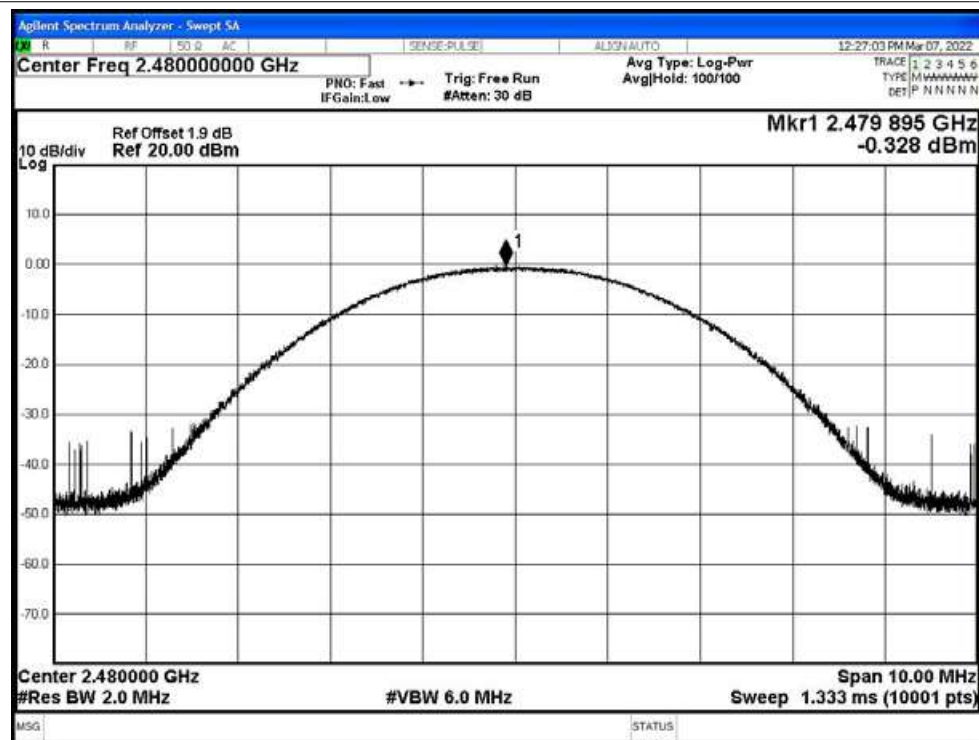




Power NVNT 2-DH5 2441MHz Ant1

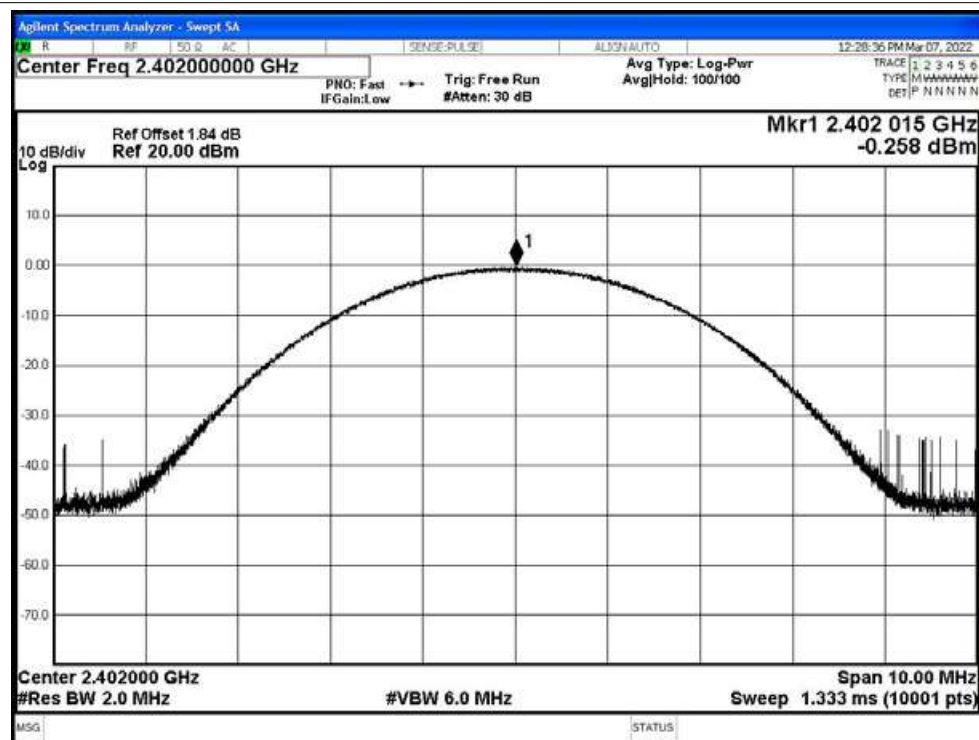


Power NVNT 2-DH5 2480MHz Ant1

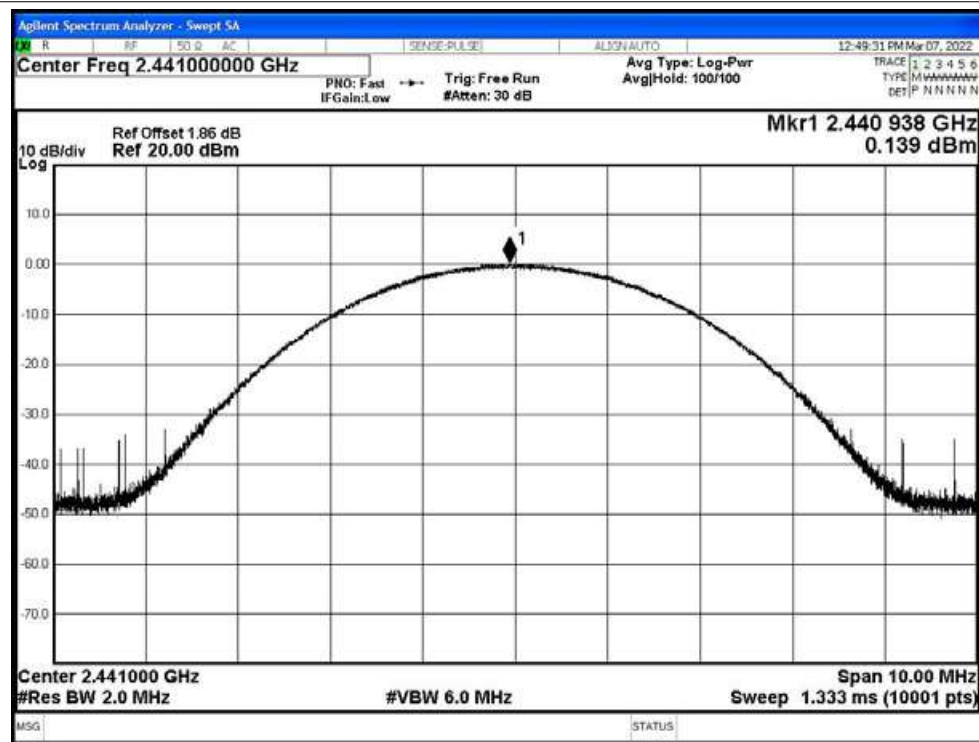




Power NVNT 3-DH5 2402MHz Ant1

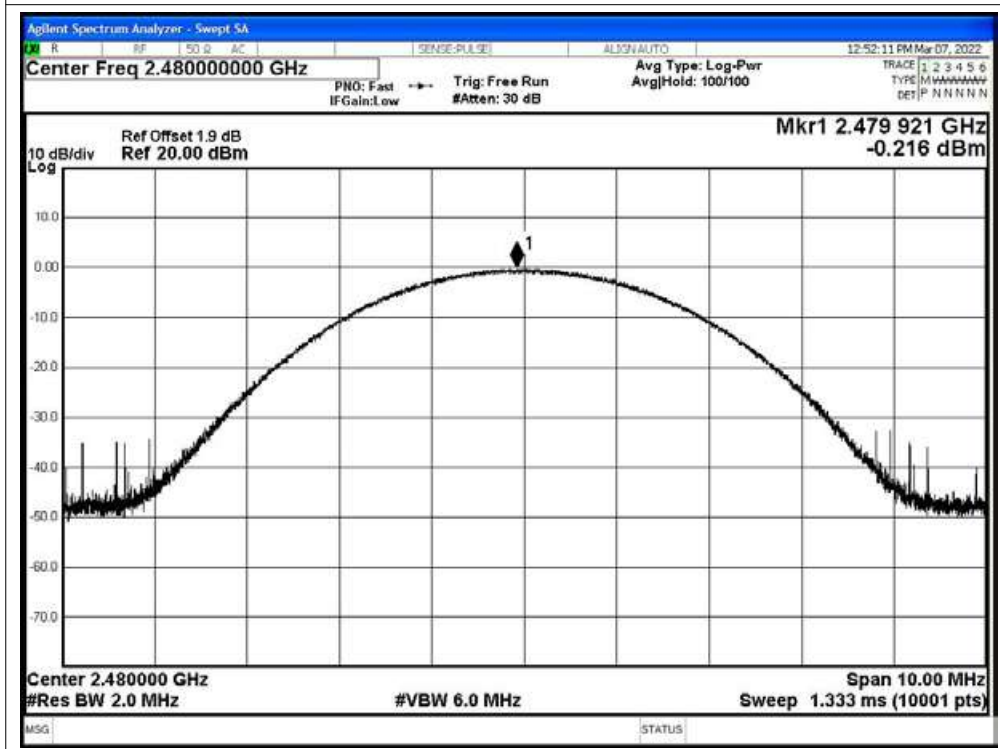


Power NVNT 3-DH5 2441MHz Ant1





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	2401.968	2402.992	1.024	≥ 0.657	Pass
NVNT	1-DH5	Ant1	2441.01	2442.008	0.998	≥ 0.655	Pass
NVNT	1-DH5	Ant1	2479.154	2480.006	0.852	≥ 0.681	Pass
NVNT	2-DH5	Ant1	2402.158	2403.162	1.004	≥ 0.86	Pass
NVNT	2-DH5	Ant1	2441.004	2442.158	1.154	≥ 0.851	Pass
NVNT	2-DH5	Ant1	2479.028	2480.166	1.138	≥ 0.851	Pass
NVNT	3-DH5	Ant1	2402.016	2403.008	0.992	≥ 0.866	Pass
NVNT	3-DH5	Ant1	2440.712	2442.146	1.434	≥ 0.864	Pass
NVNT	3-DH5	Ant1	2479.004	2480.15	1.146	≥ 0.867	Pass

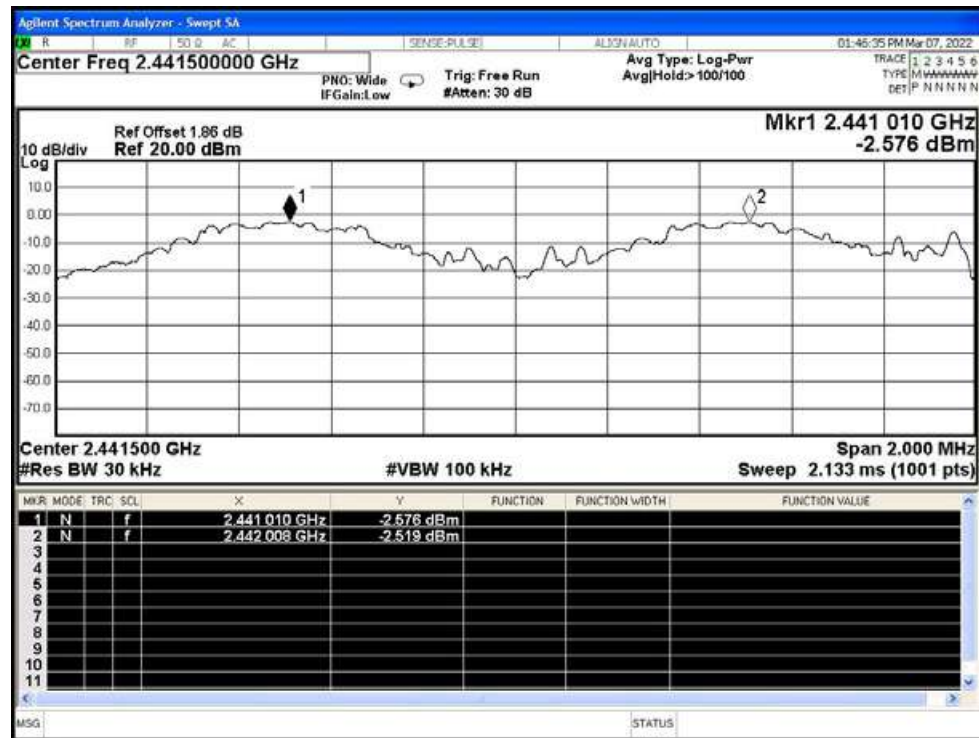


Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1

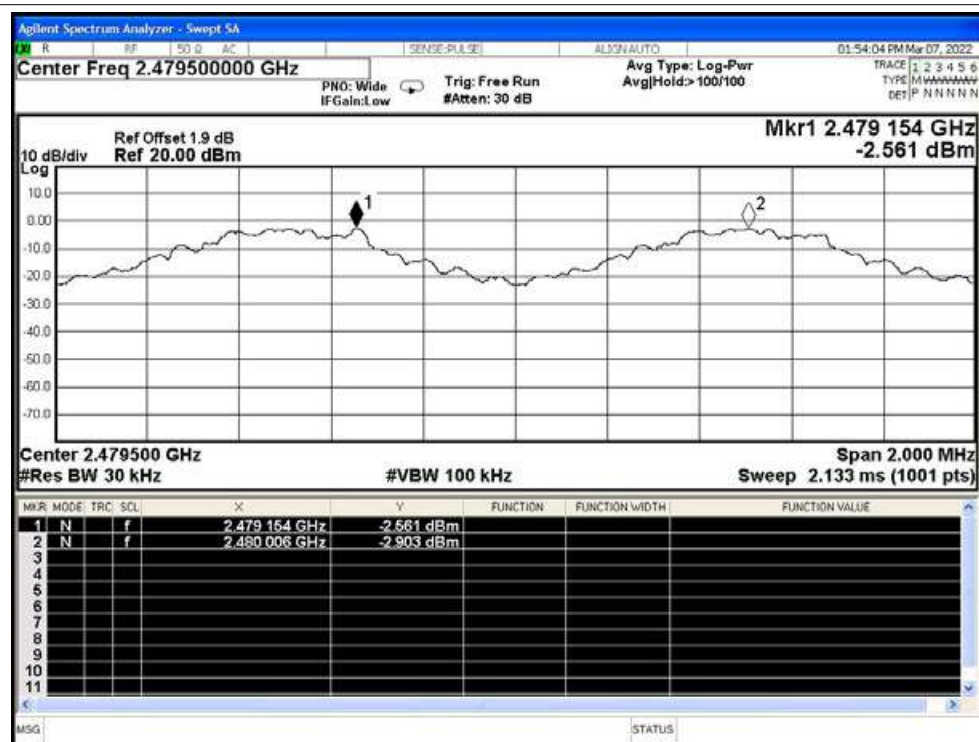


CFS NVNT 1-DH5 2441MHz Ant1

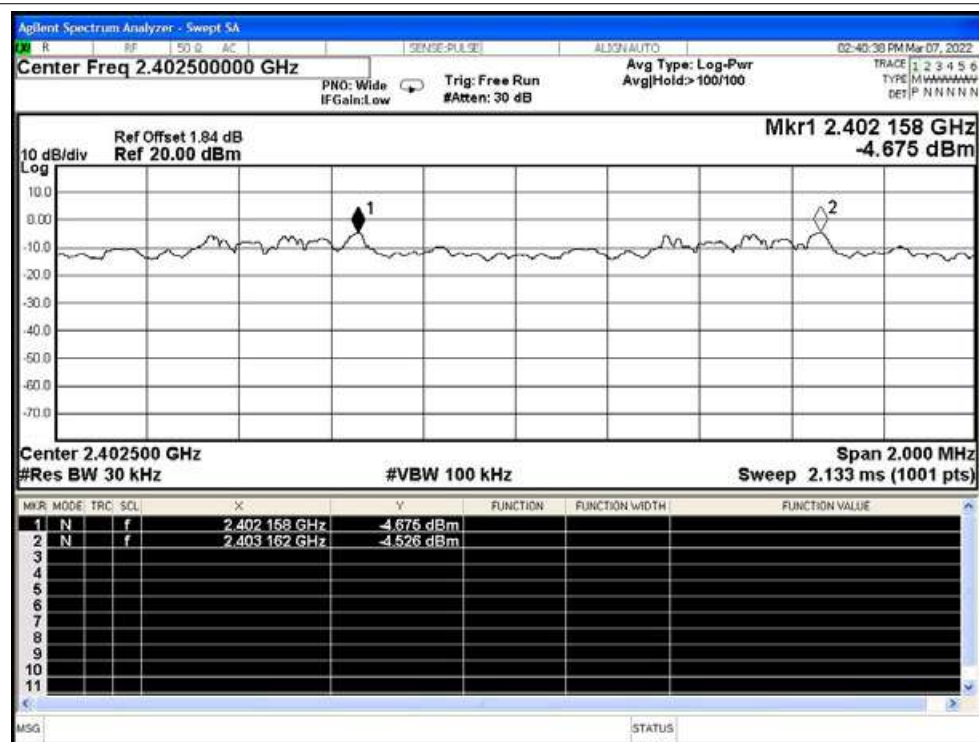




CFS NVNT 1-DH5 2480MHz Ant1

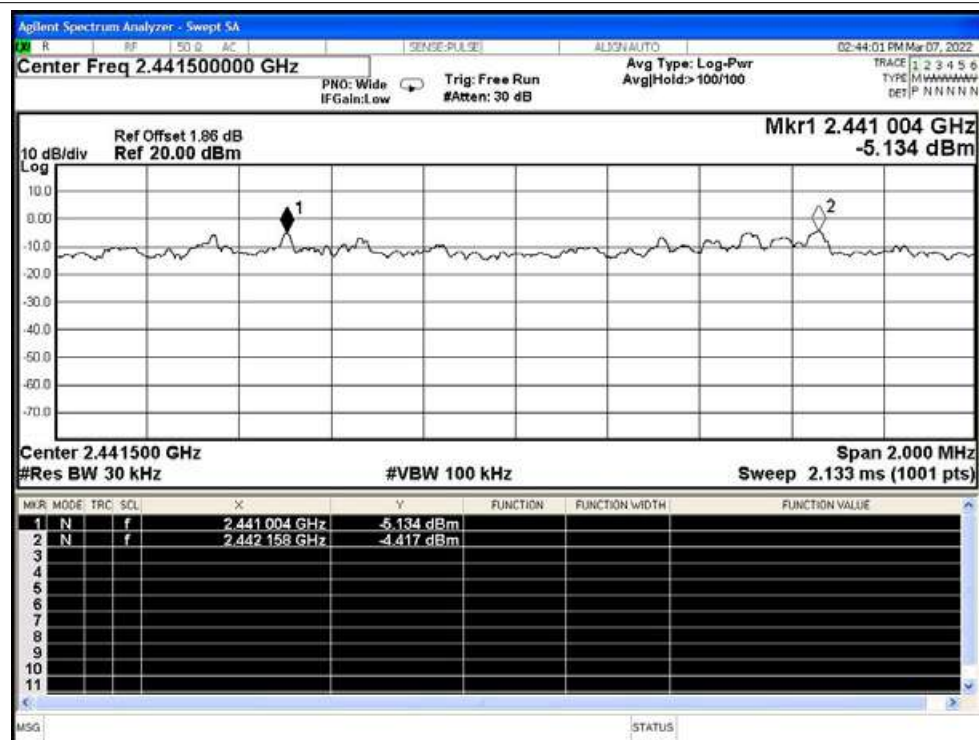


CFS NVNT 2-DH5 2402MHz Ant1

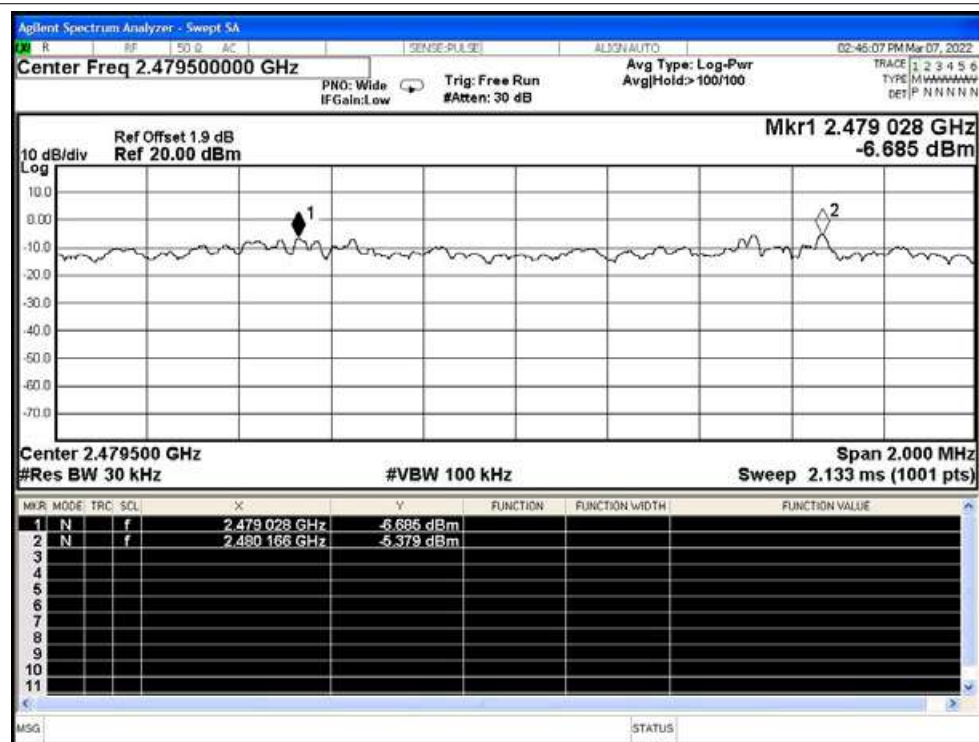




CFS NVNT 2-DH5 2441MHz Ant1

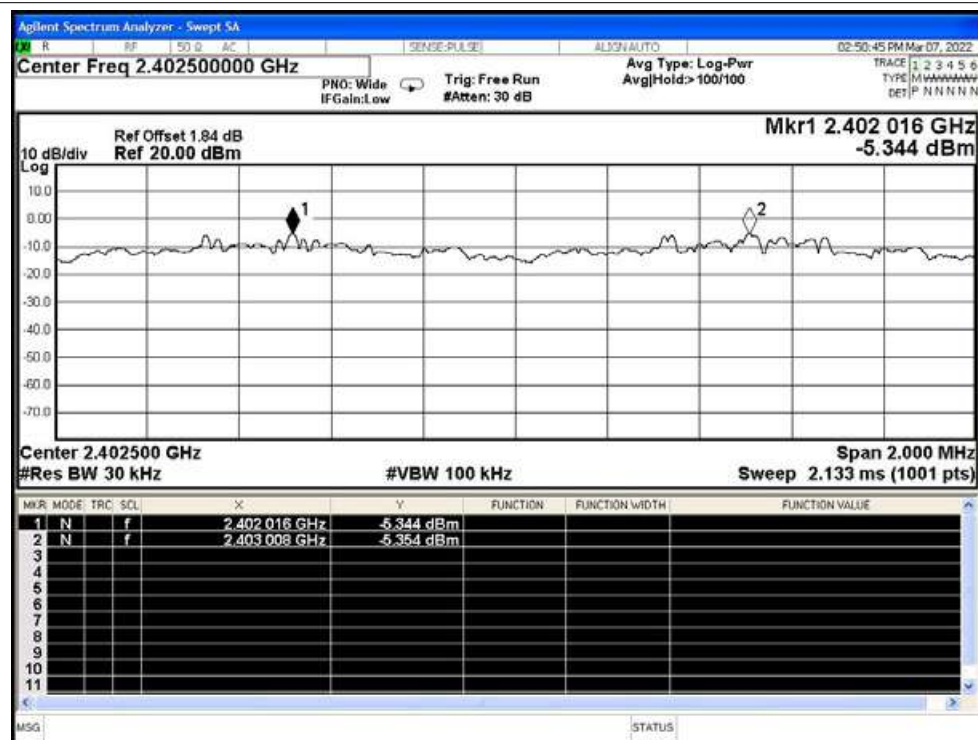


CFS NVNT 2-DH5 2480MHz Ant1

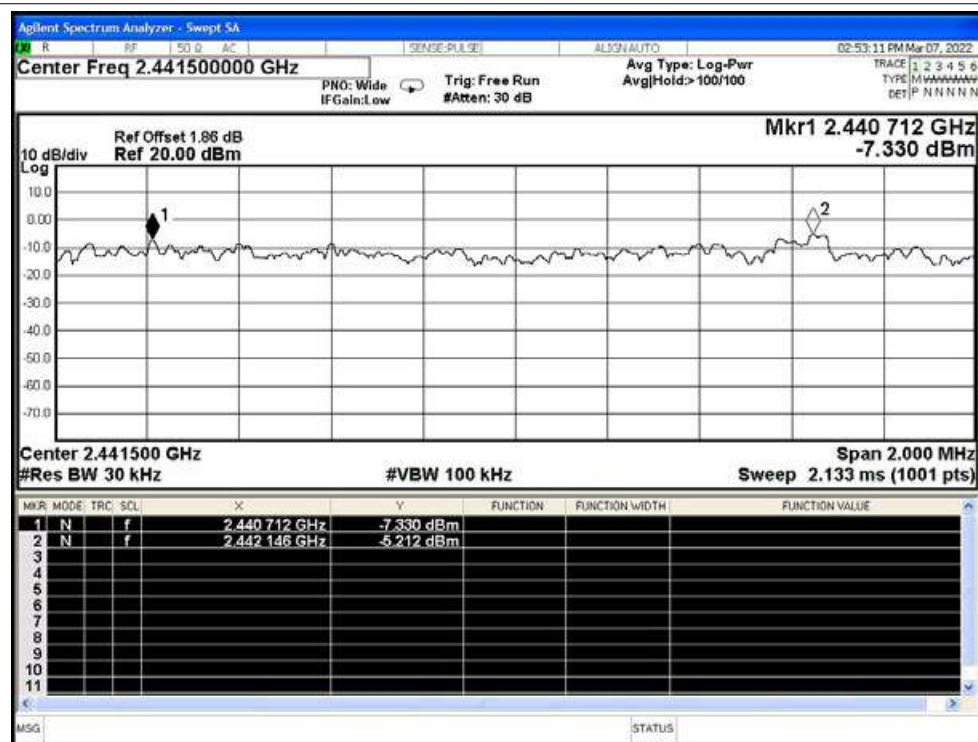




CFS NVNT 3-DH5 2402MHz Ant1

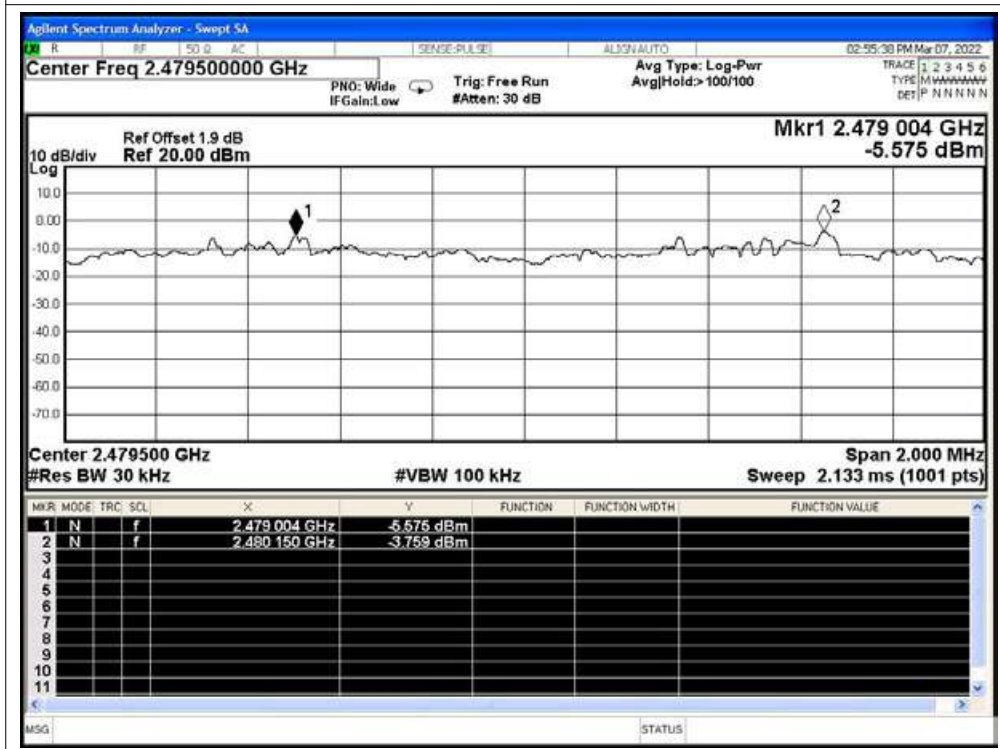


CFS NVNT 3-DH5 2441MHz Ant1





CFS NVNT 3-DH5 2480MHz Ant1





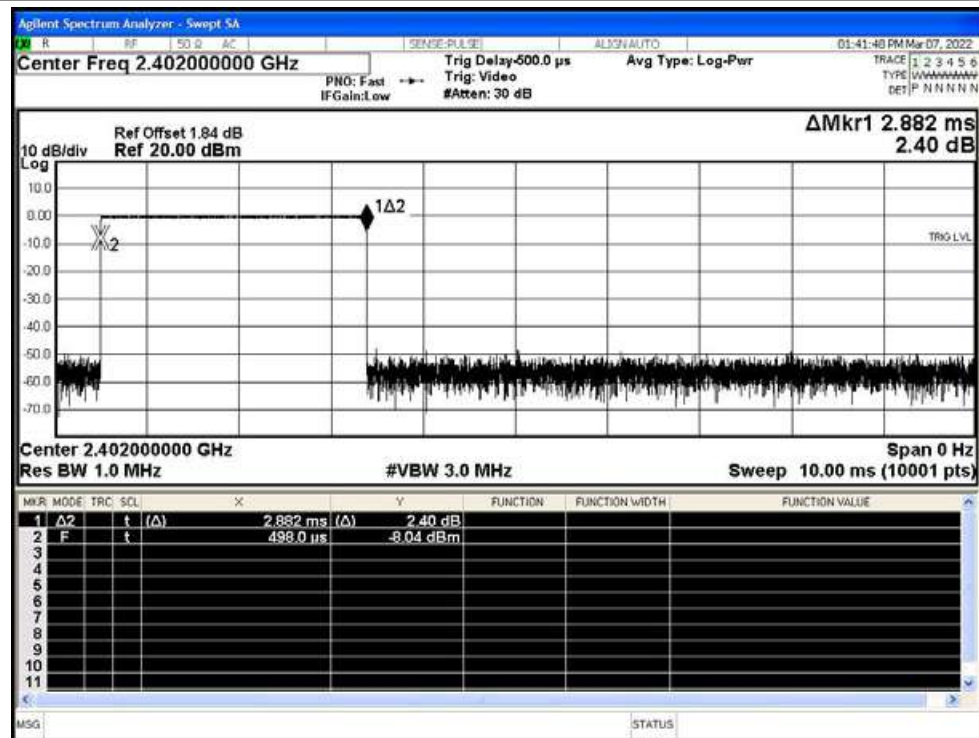
A.4 Dwell Time

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	2.882	317.02	110	31600	≤400	Pass
NVNT	1-DH5	2441	Ant1	2.882	342.958	119	31600	≤400	Pass
NVNT	1-DH5	2480	Ant1	2.882	291.082	101	31600	≤400	Pass
NVNT	2-DH5	2402	Ant1	2.885	317.35	110	31600	≤400	Pass
NVNT	2-DH5	2441	Ant1	2.882	325.666	113	31600	≤400	Pass
NVNT	2-DH5	2480	Ant1	2.885	300.04	104	31600	≤400	Pass
NVNT	3-DH5	2402	Ant1	2.886	300.144	104	31600	≤400	Pass
NVNT	3-DH5	2441	Ant1	2.884	320.124	111	31600	≤400	Pass
NVNT	3-DH5	2480	Ant1	2.884	314.356	109	31600	≤400	Pass

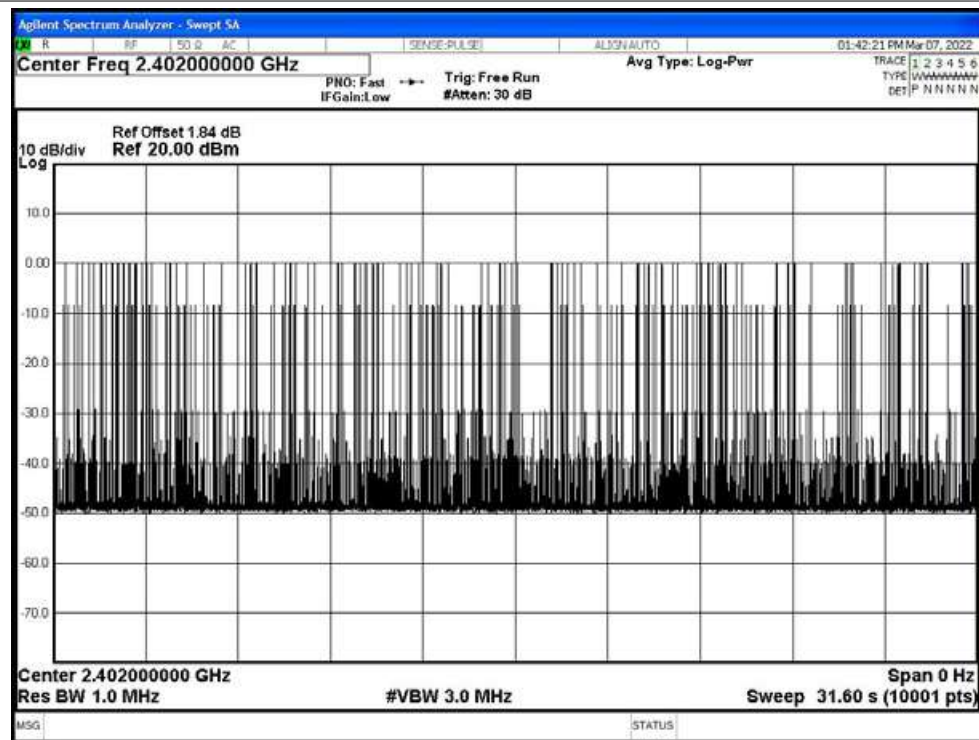


Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

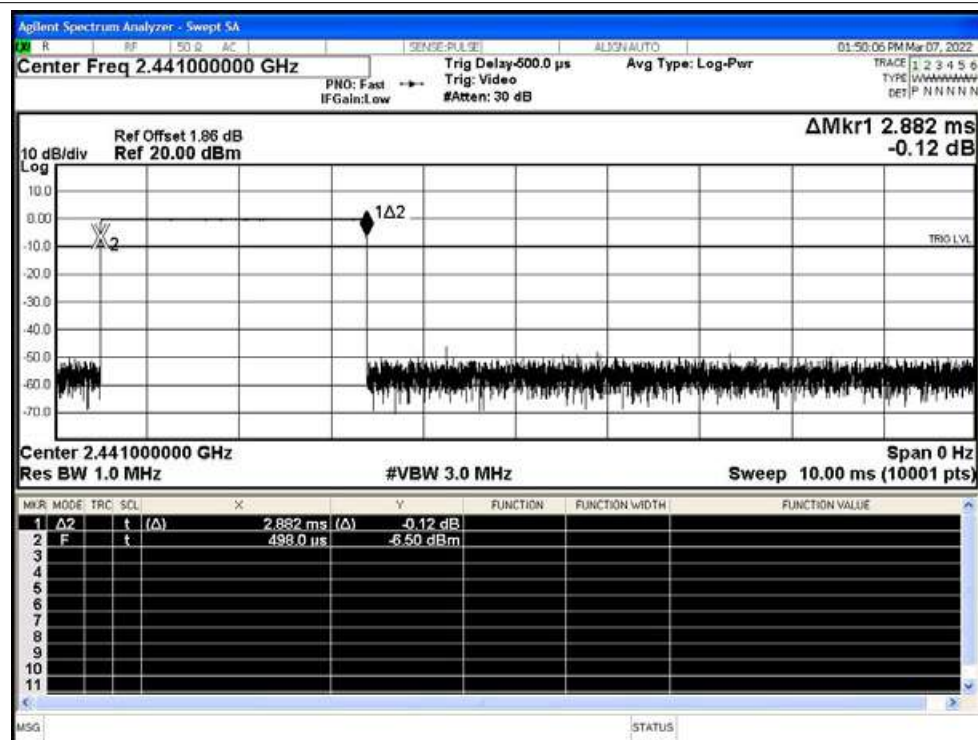


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

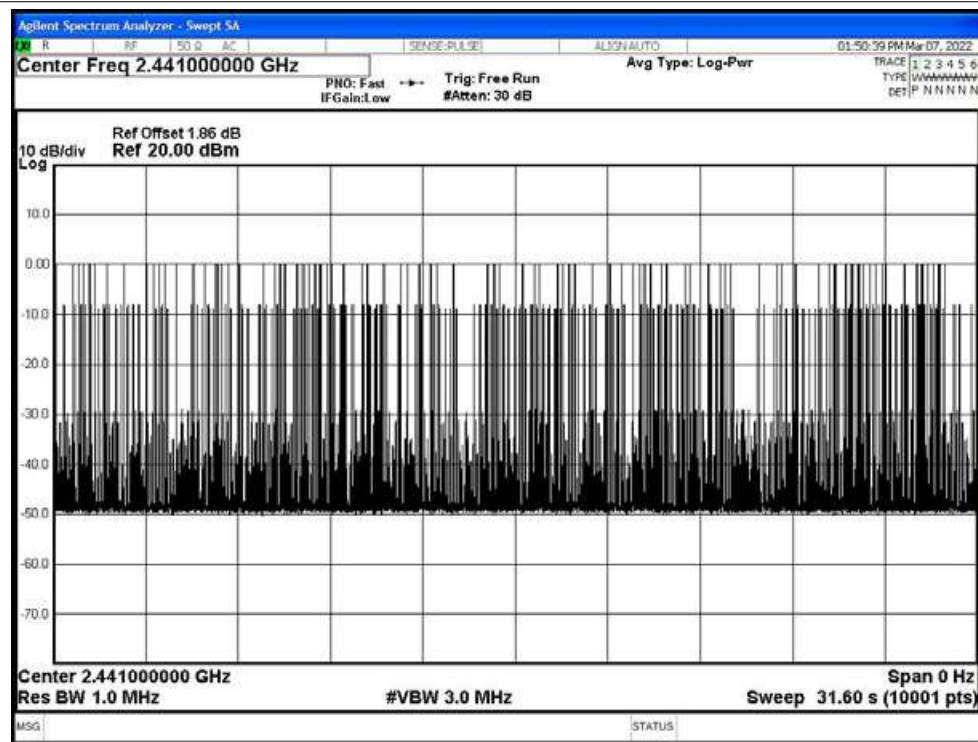




Dwell NVNT 1-DH5 2441MHz Ant1 One Burst

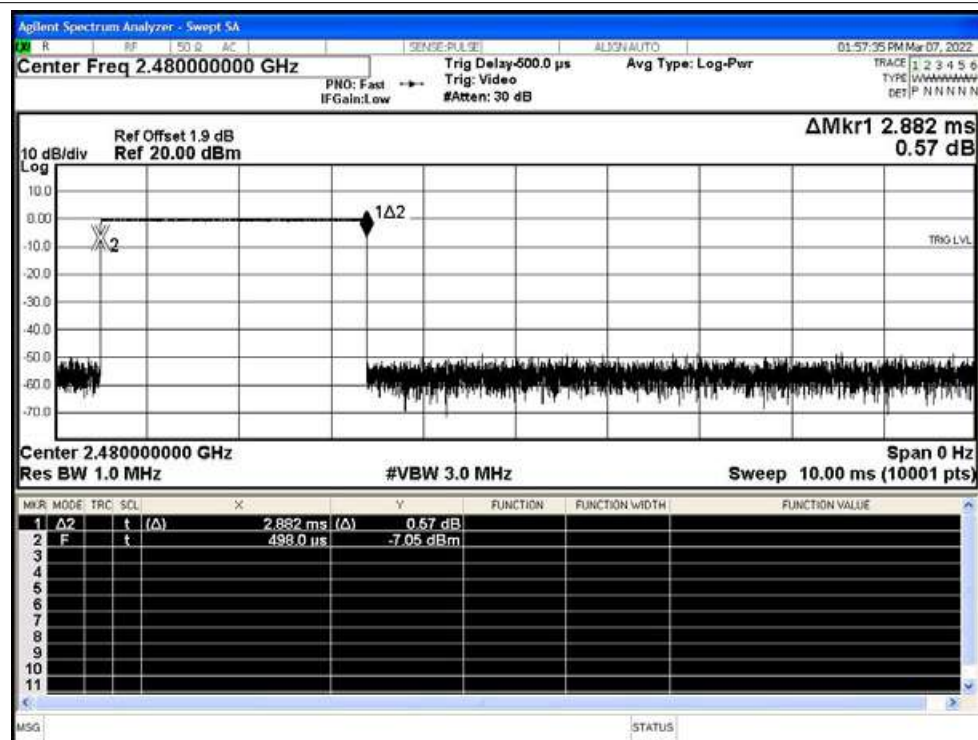


Dwell NVNT 1-DH5 2441MHz Ant1 Accumulated

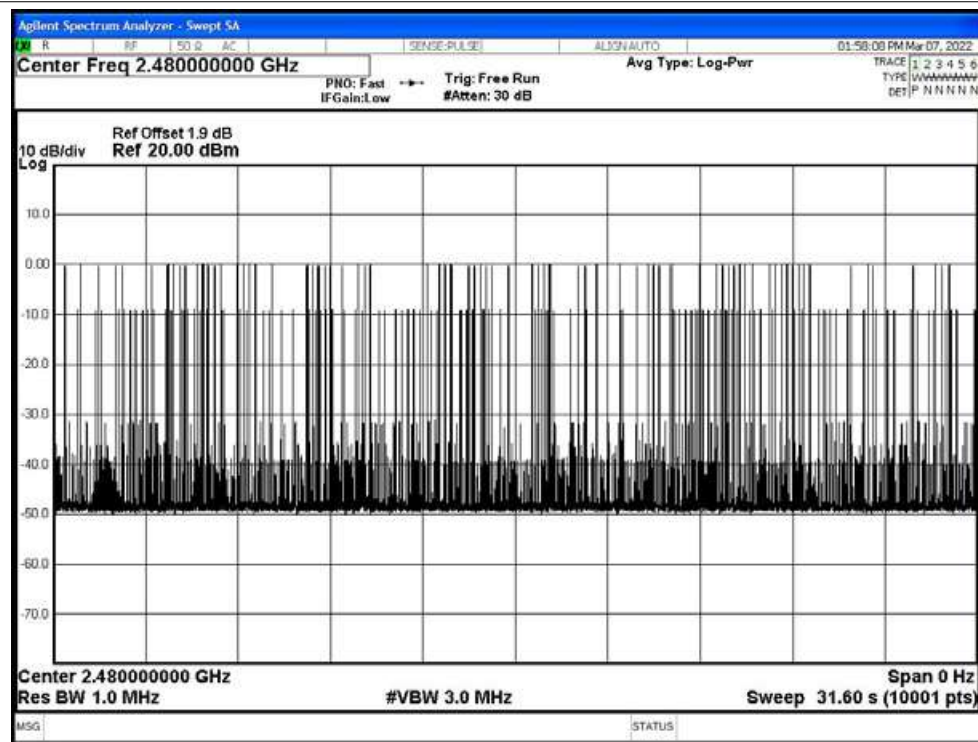




Dwell NVNT 1-DH5 2480MHz Ant1 One Burst

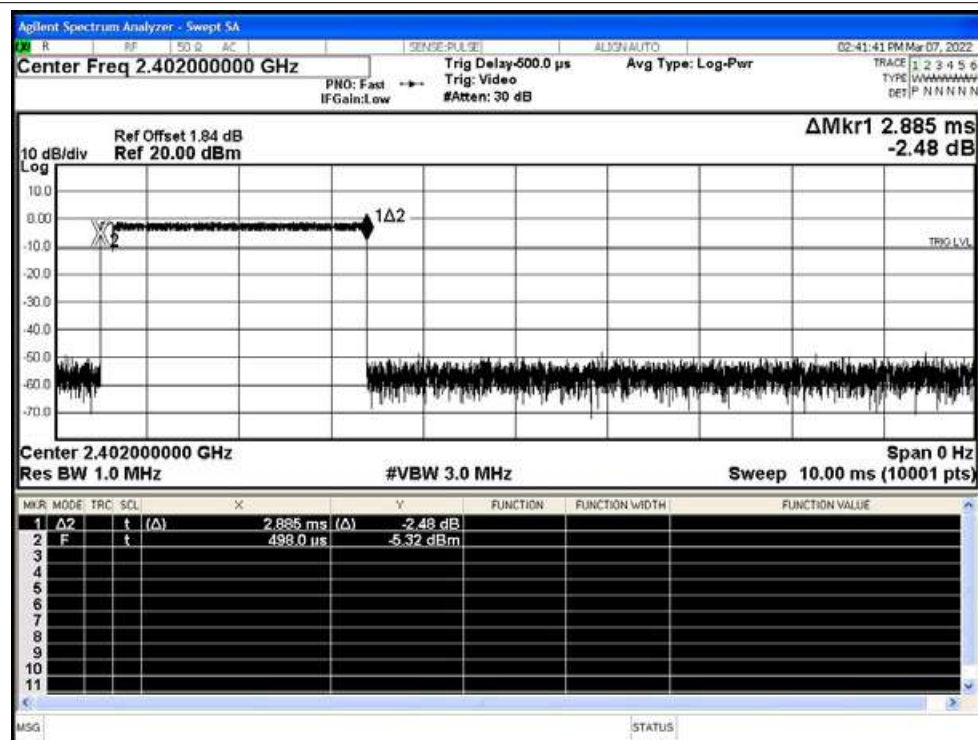


Dwell NVNT 1-DH5 2480MHz Ant1 Accumulated

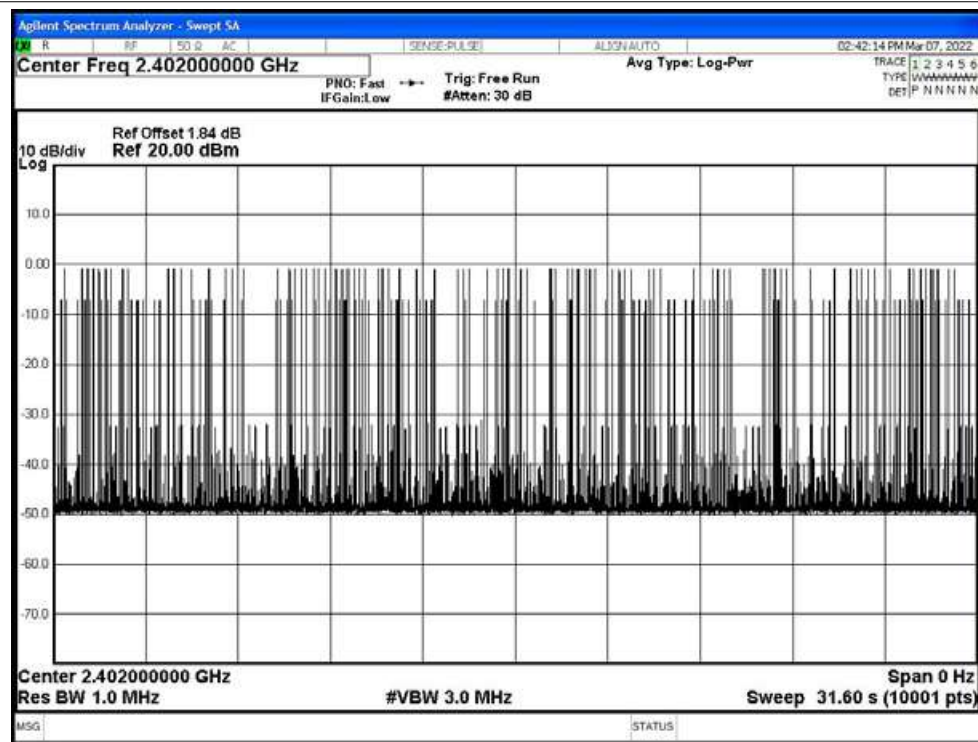




Dwell NVNT 2-DH5 2402MHz Ant1 One Burst

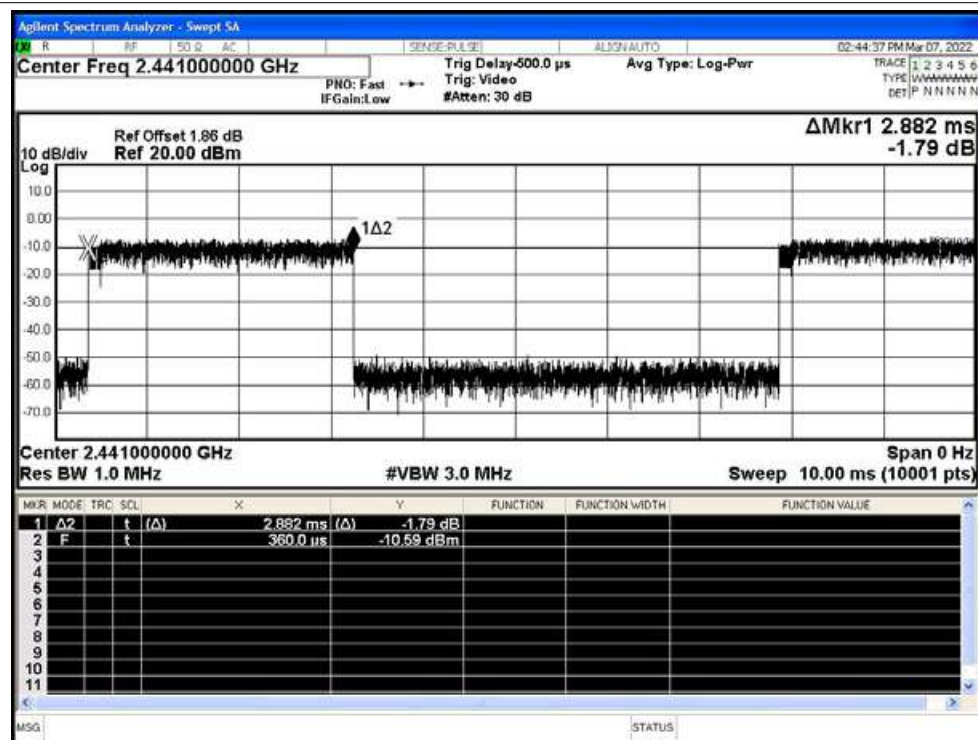


Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated

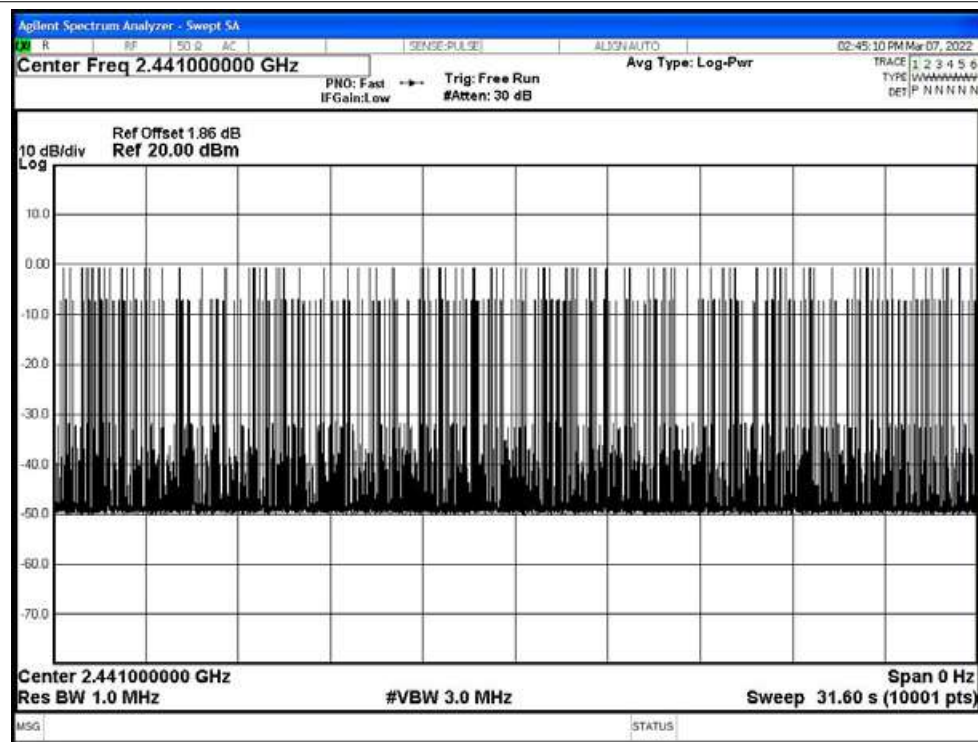




Dwell NVNT 2-DH5 2441MHz Ant1 One Burst

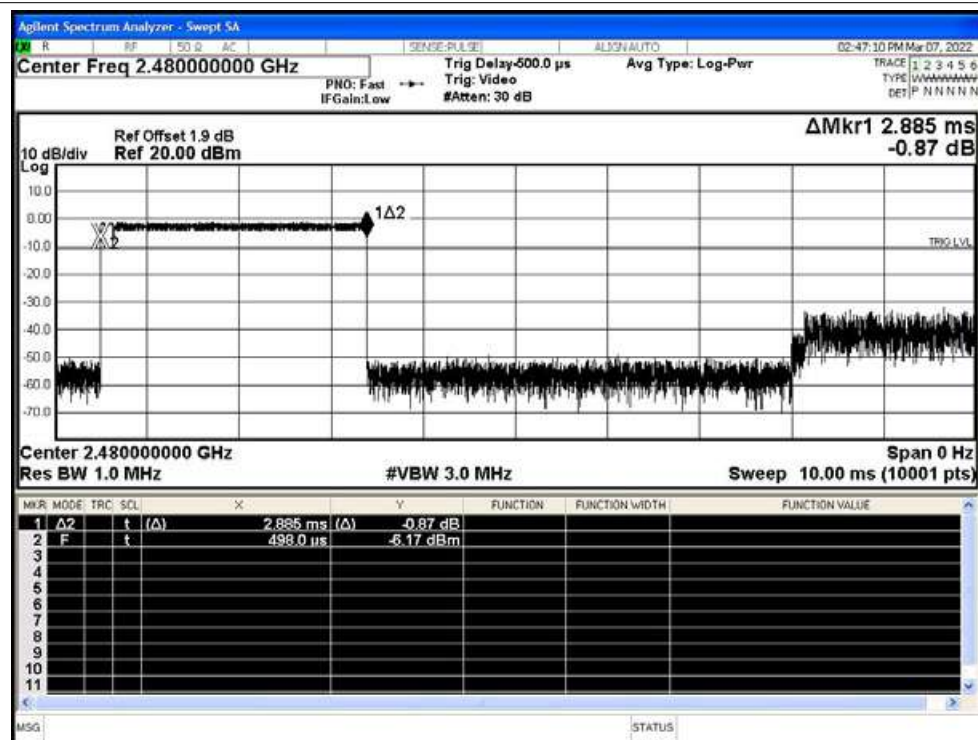


Dwell NVNT 2-DH5 2441MHz Ant1 Accumulated

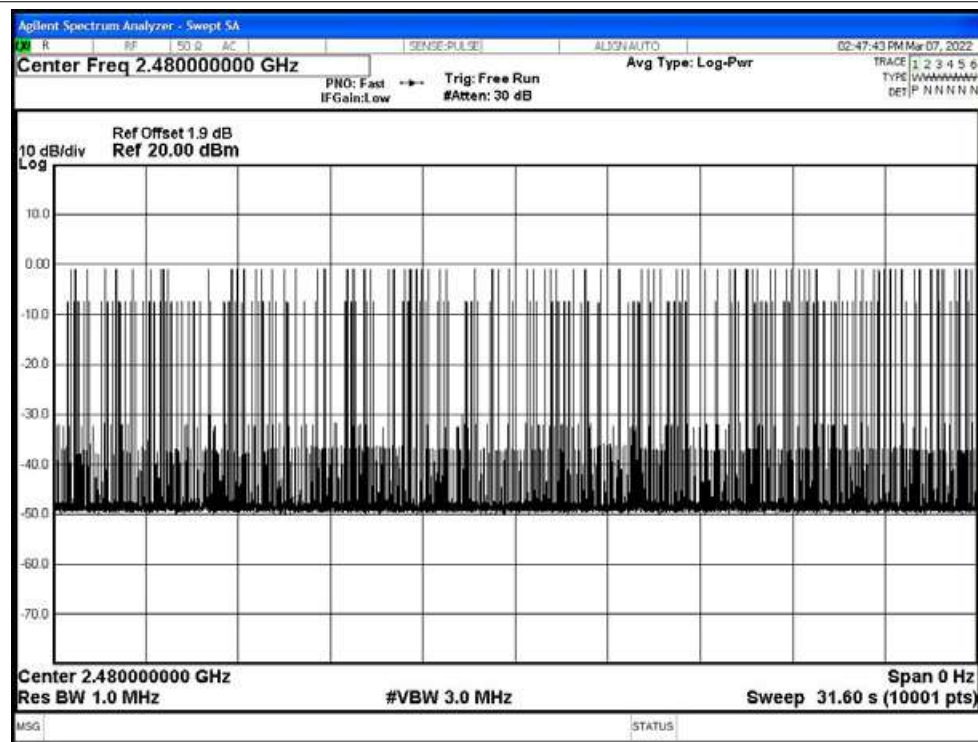




Dwell NVNT 2-DH5 2480MHz Ant1 One Burst

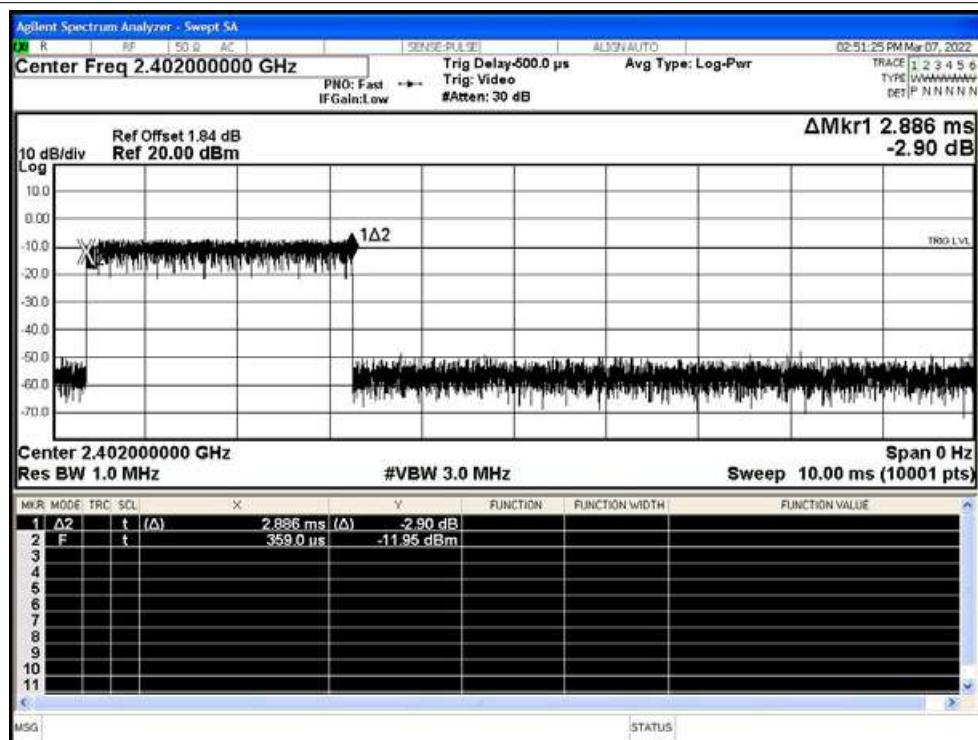


Dwell NVNT 2-DH5 2480MHz Ant1 Accumulated

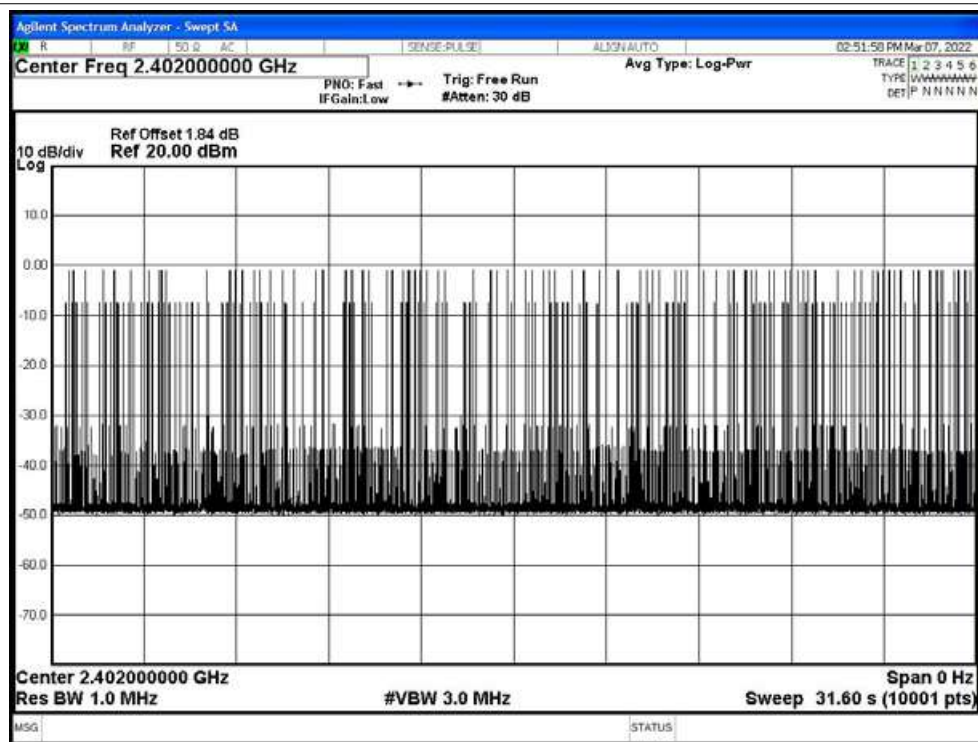




Dwell NVNT 3-DH5 2402MHz Ant1 One Burst

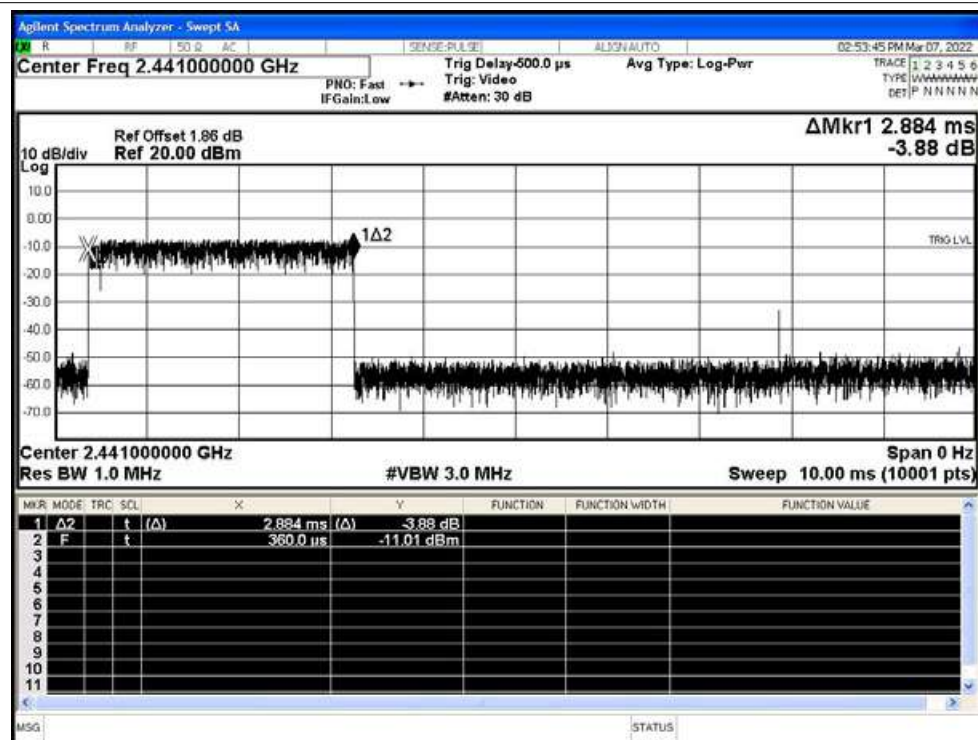


Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated

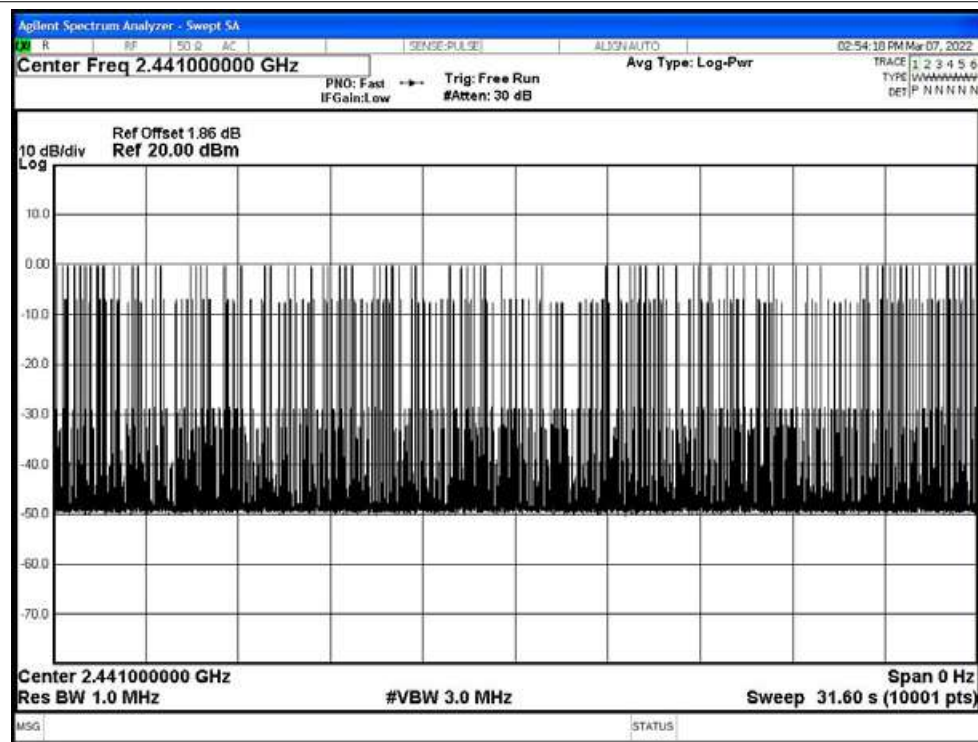




Dwell NVNT 3-DH5 2441MHz Ant1 One Burst

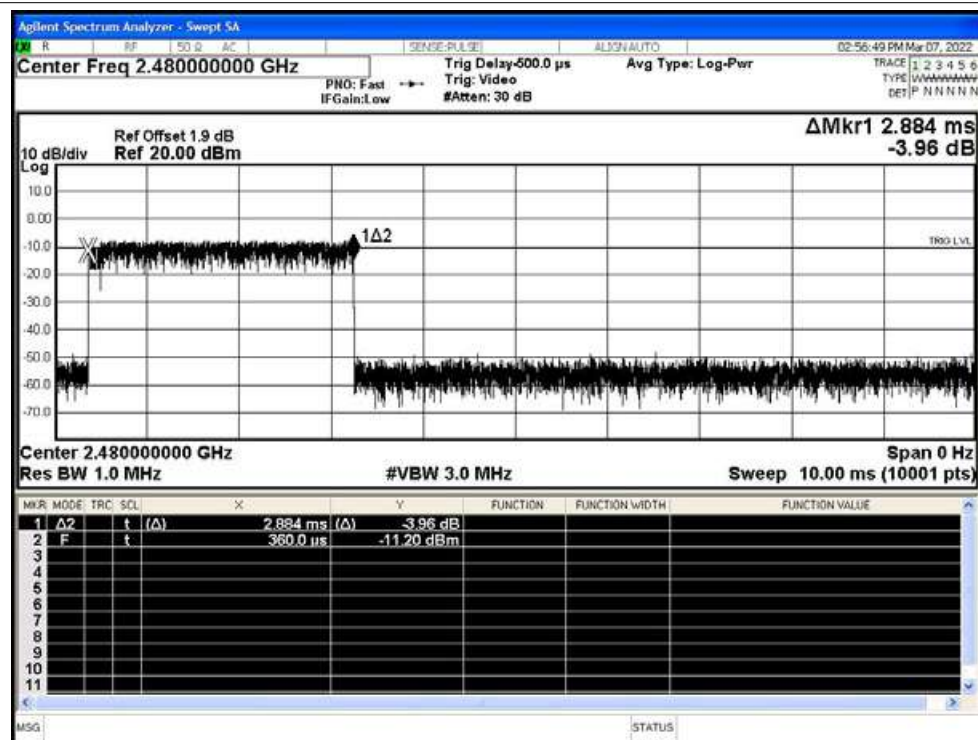


Dwell NVNT 3-DH5 2441MHz Ant1 Accumulated

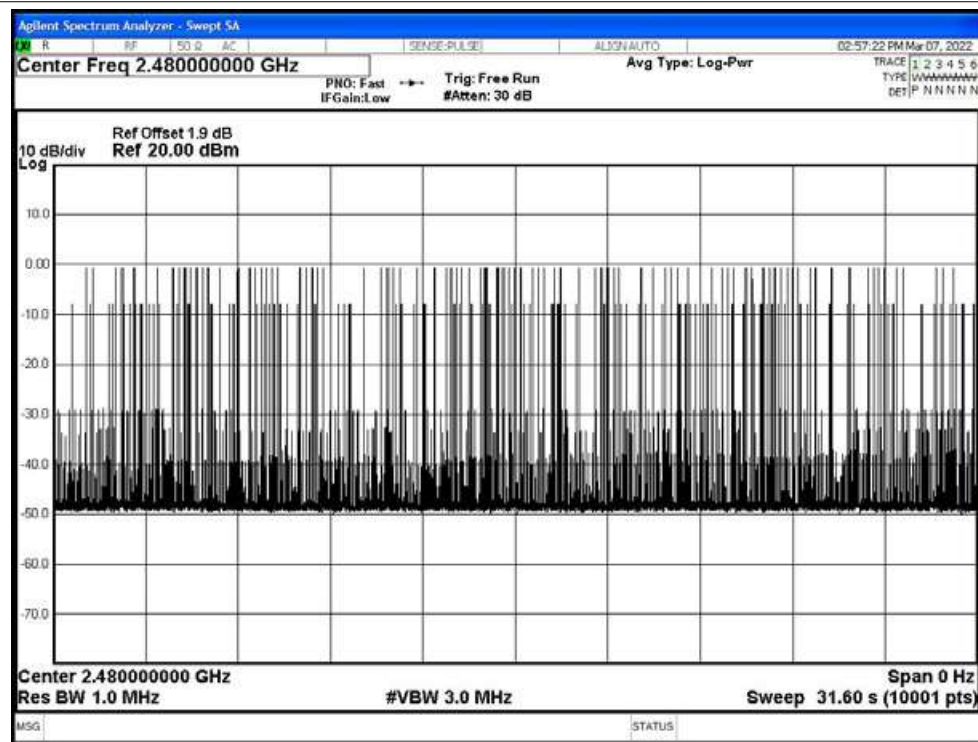




Dwell NVNT 3-DH5 2480MHz Ant1 One Burst



Dwell NVNT 3-DH5 2480MHz Ant1 Accumulated





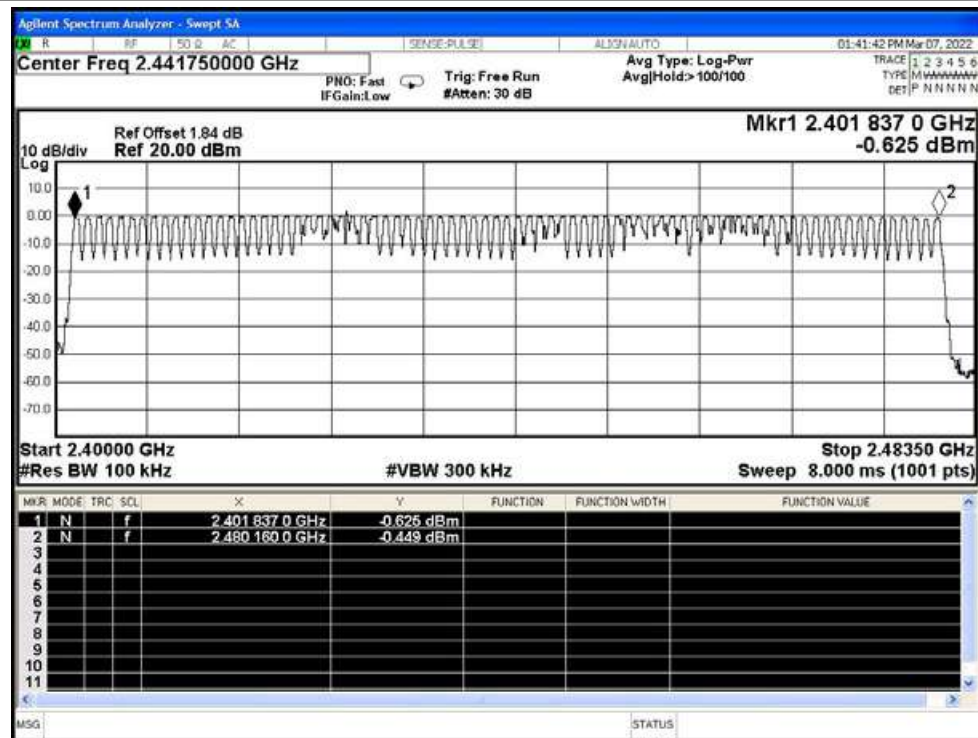
A.5 Number of Hopping Channel

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

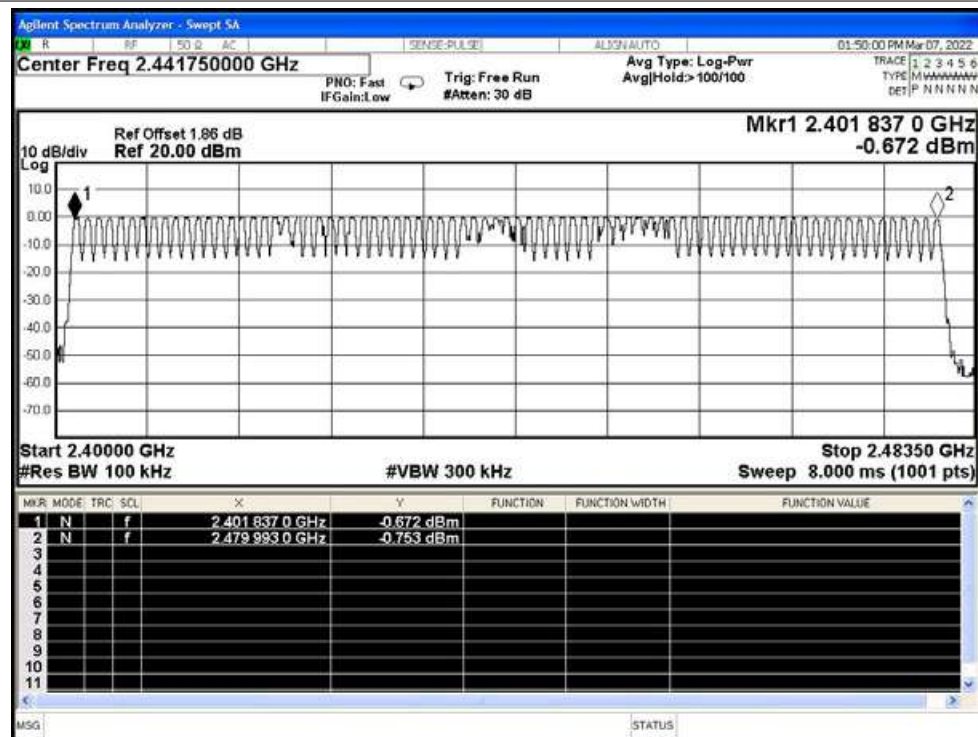


Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1

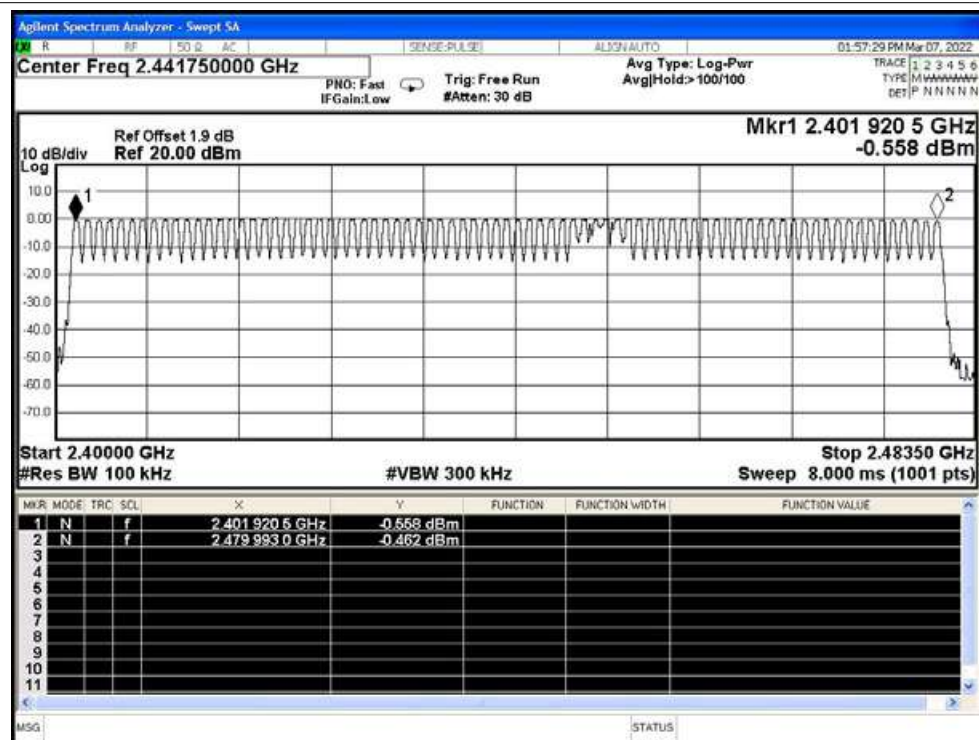


Hopping No. NVNT 1-DH5 2441MHz Ant1

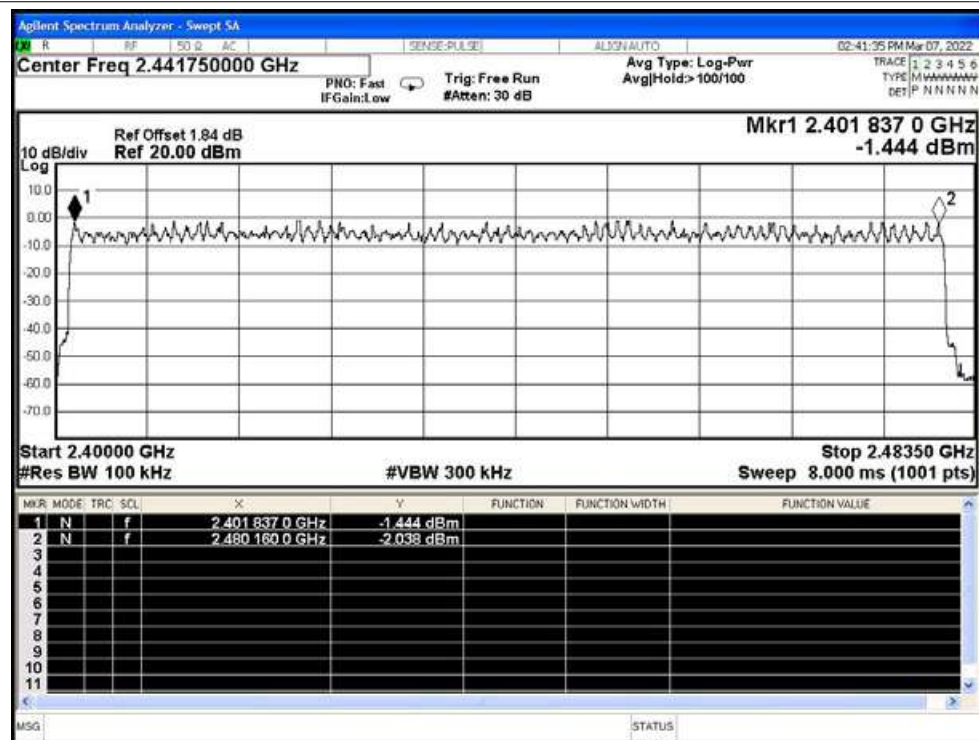




Hopping No. NVNT 1-DH5 2480MHz Ant1

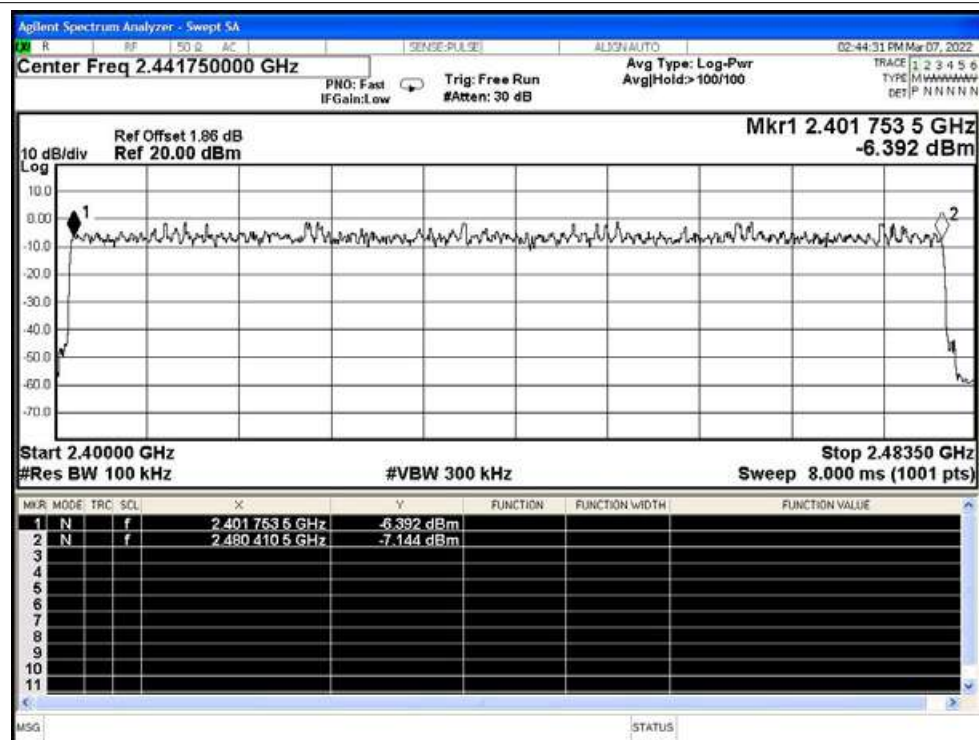


Hopping No. NVNT 2-DH5 2402MHz Ant1

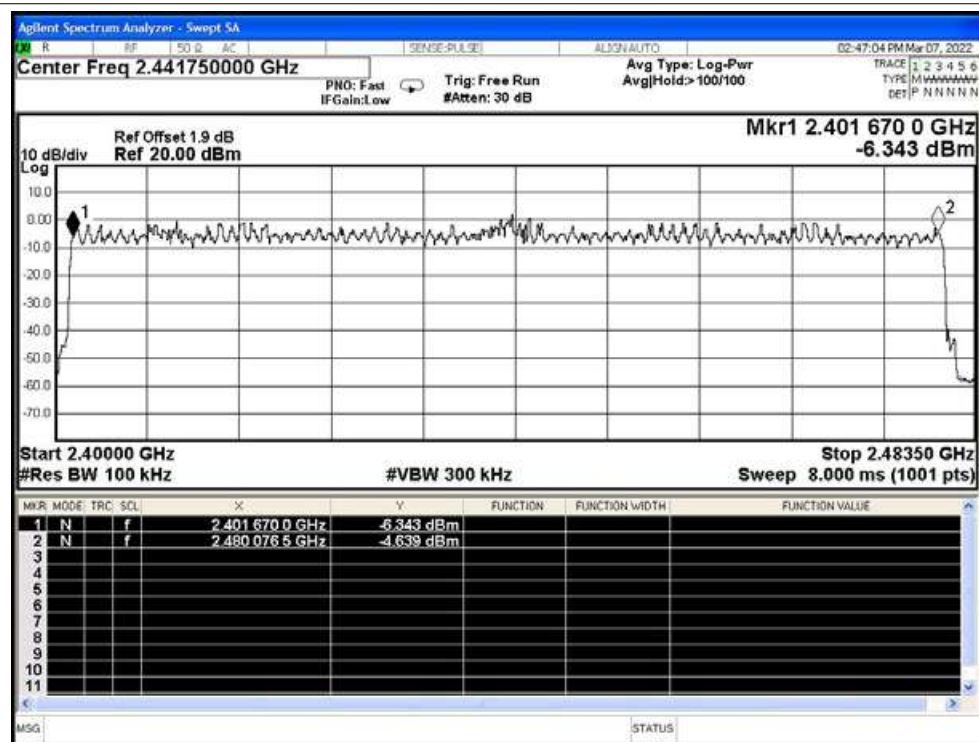




Hopping No. NVNT 2-DH5 2441MHz Ant1

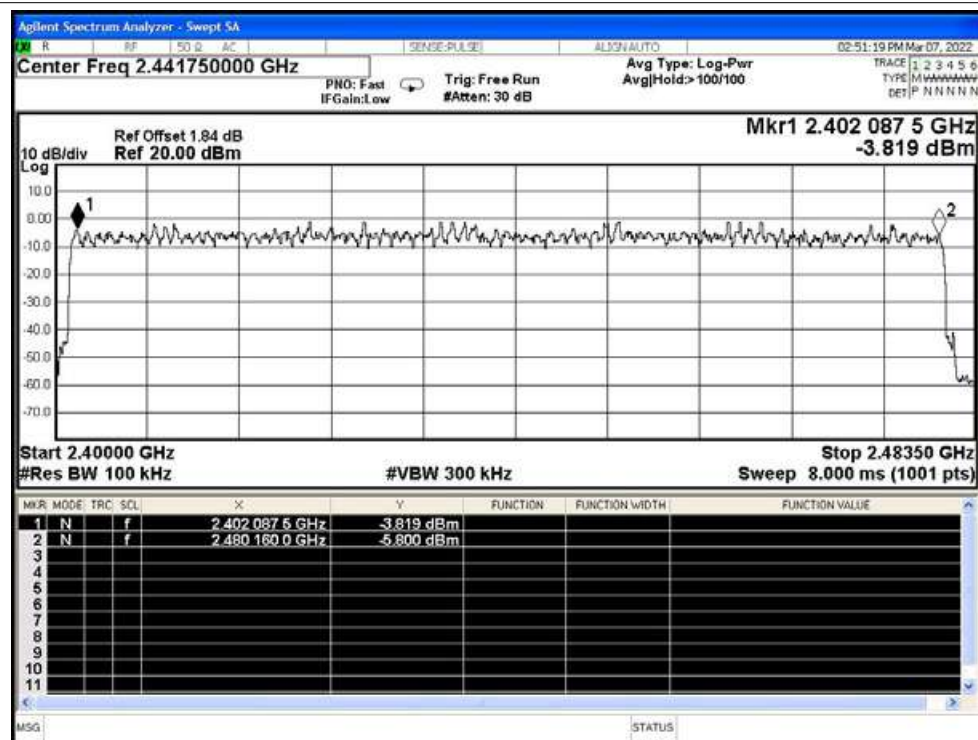


Hopping No. NVNT 2-DH5 2480MHz Ant1

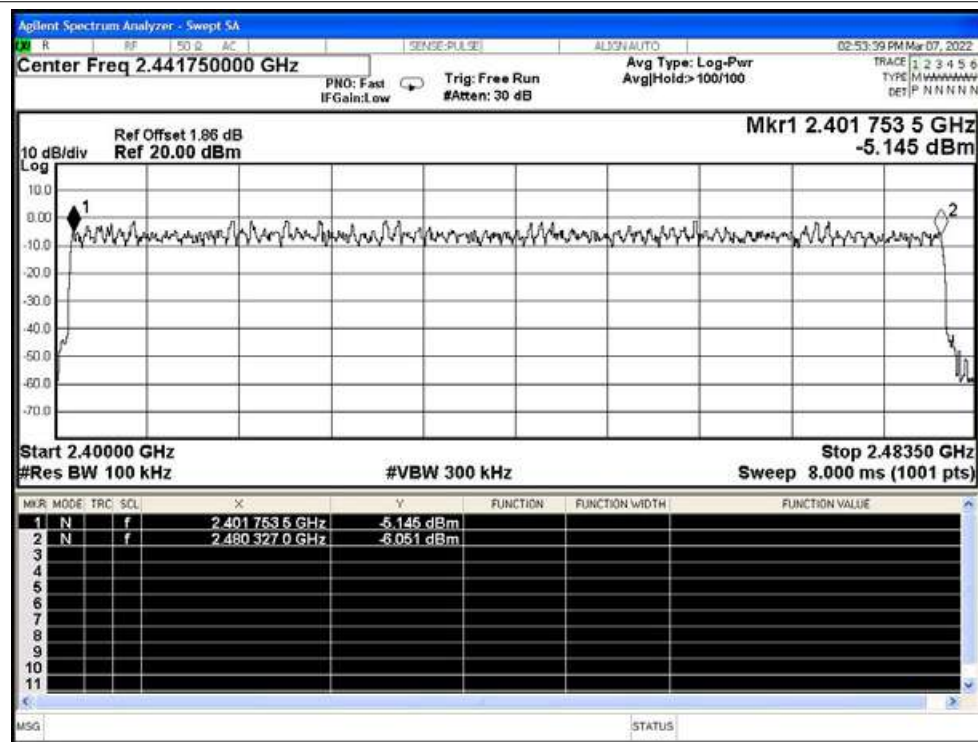




Hopping No. NVNT 3-DH5 2402MHz Ant1



Hopping No. NVNT 3-DH5 2441MHz Ant1





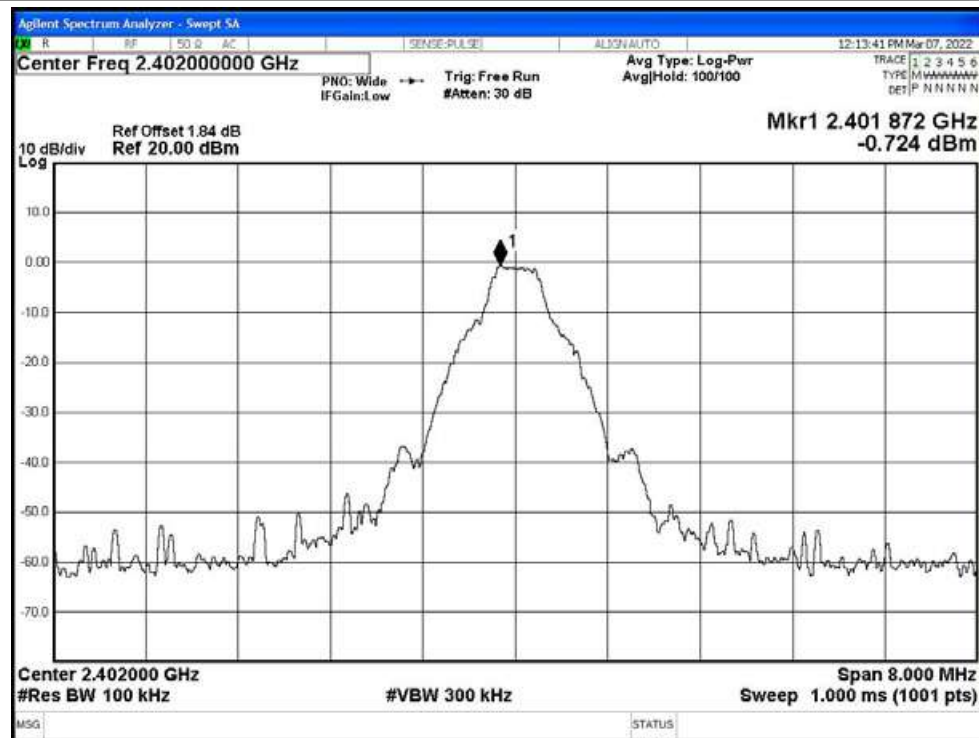
A.6 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-50.73	≤ -20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-56.58	≤ -20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-47.2	≤ -20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-53.29	≤ -20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-50.05	≤ -20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-54.85	≤ -20	Pass

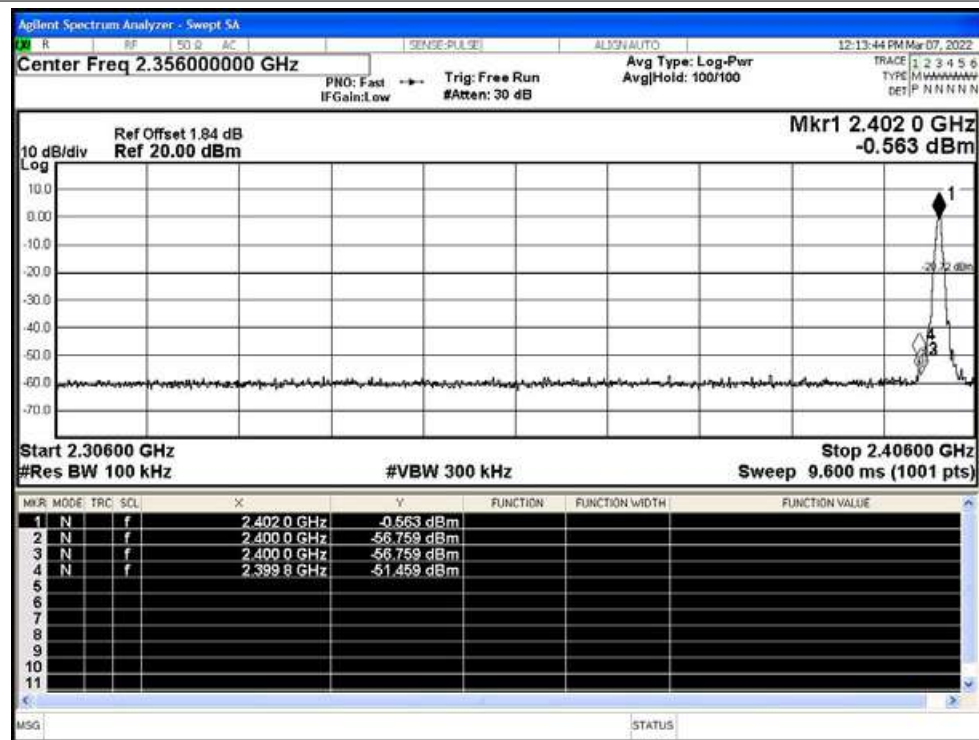


Test Graphs

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

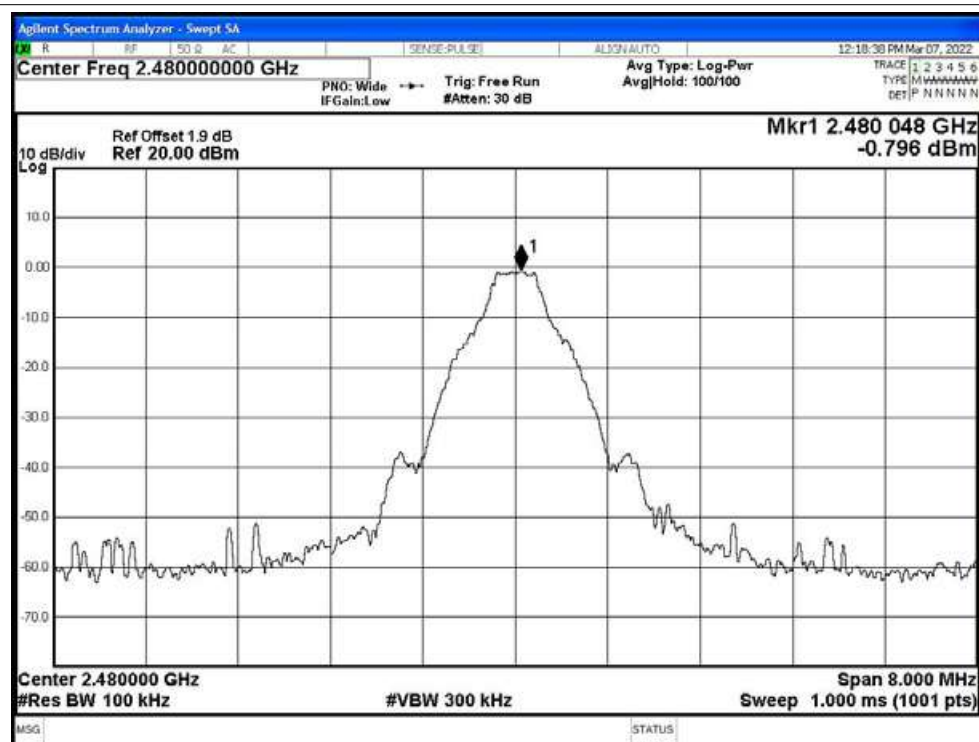


Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission

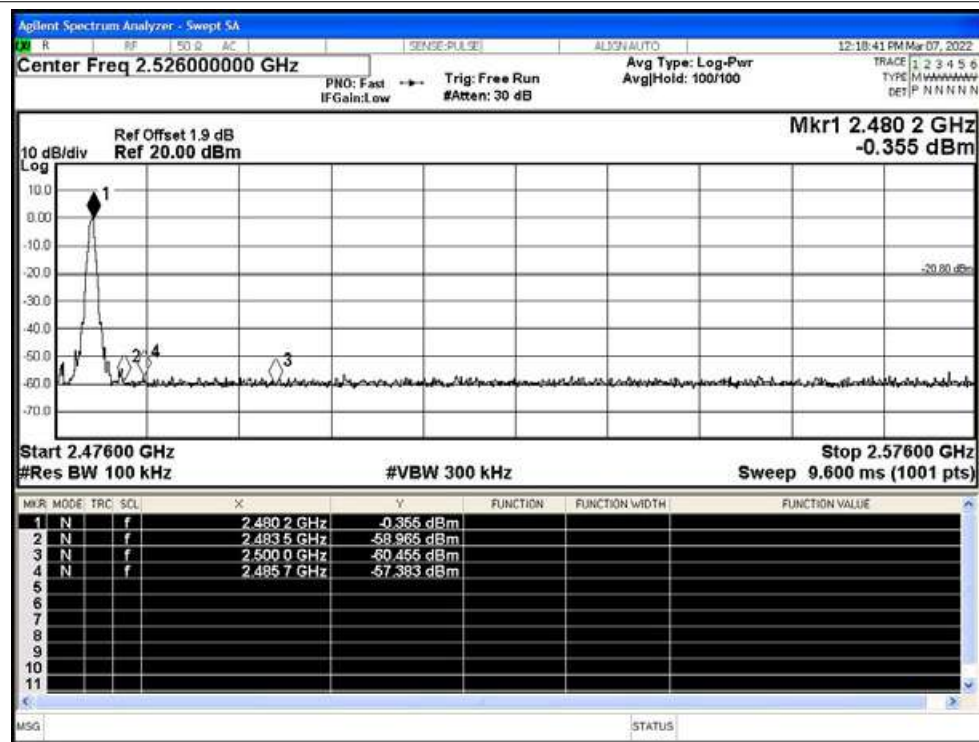




Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

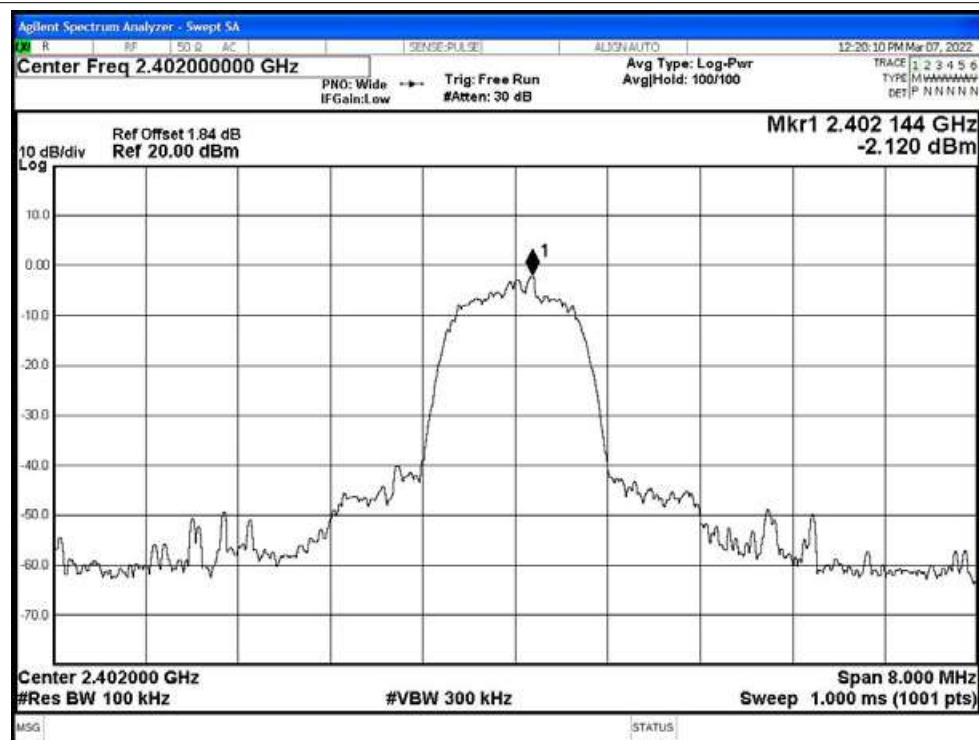


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

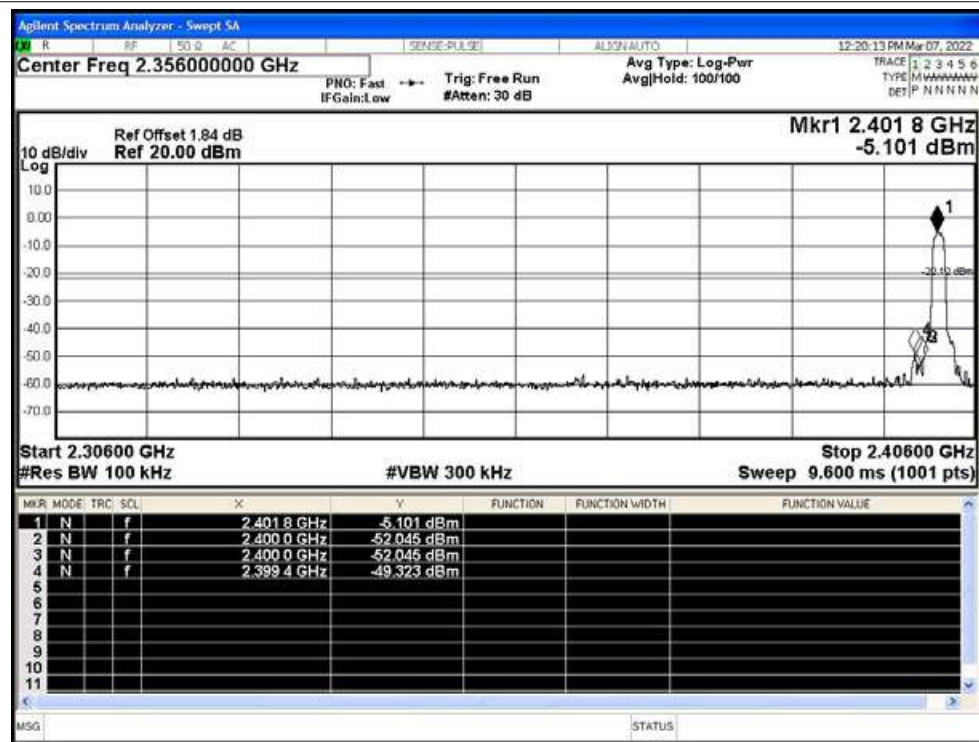




Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

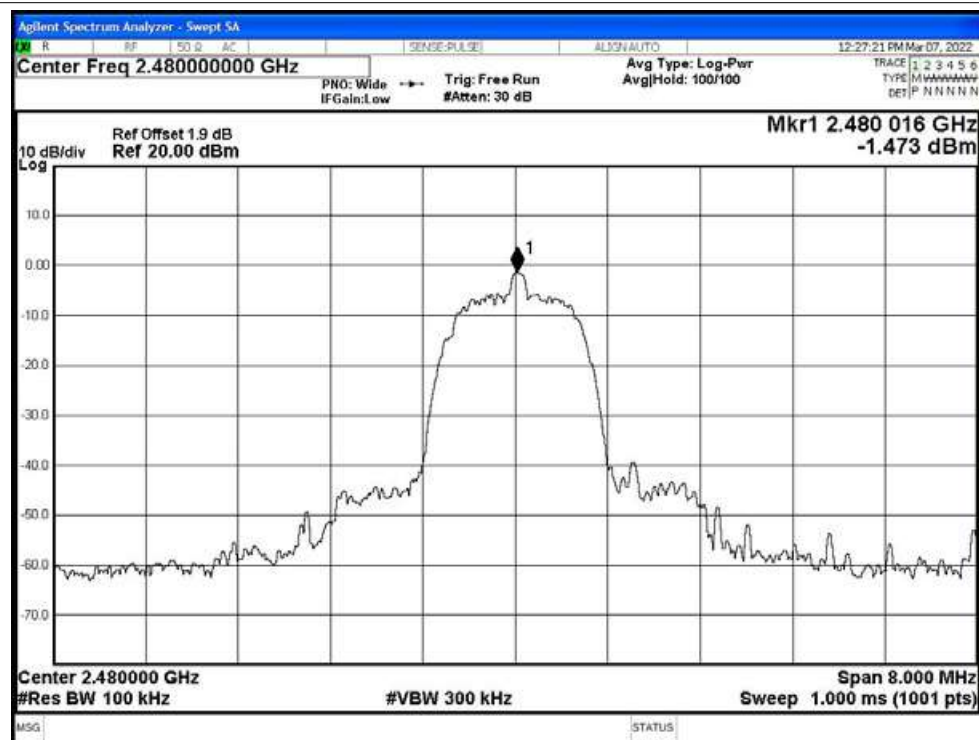


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

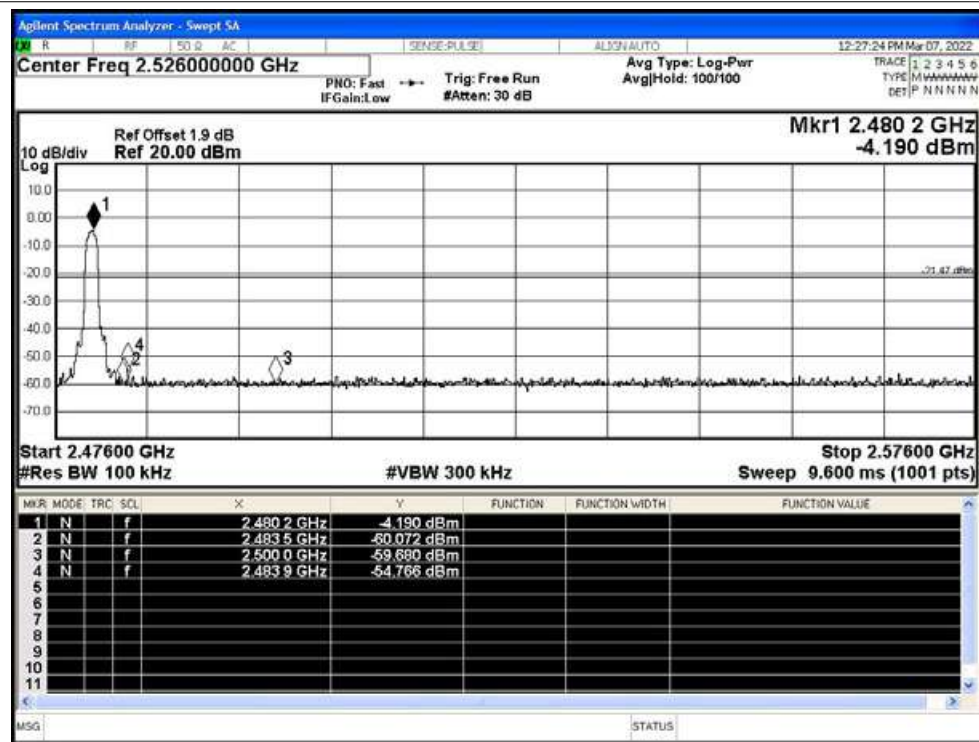




Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

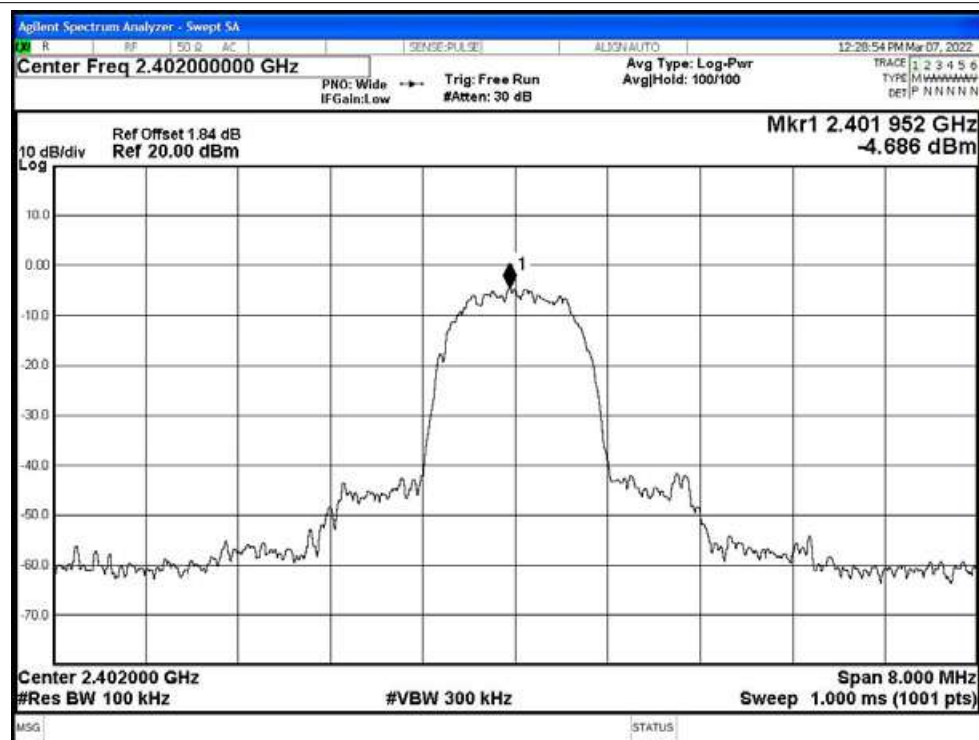


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

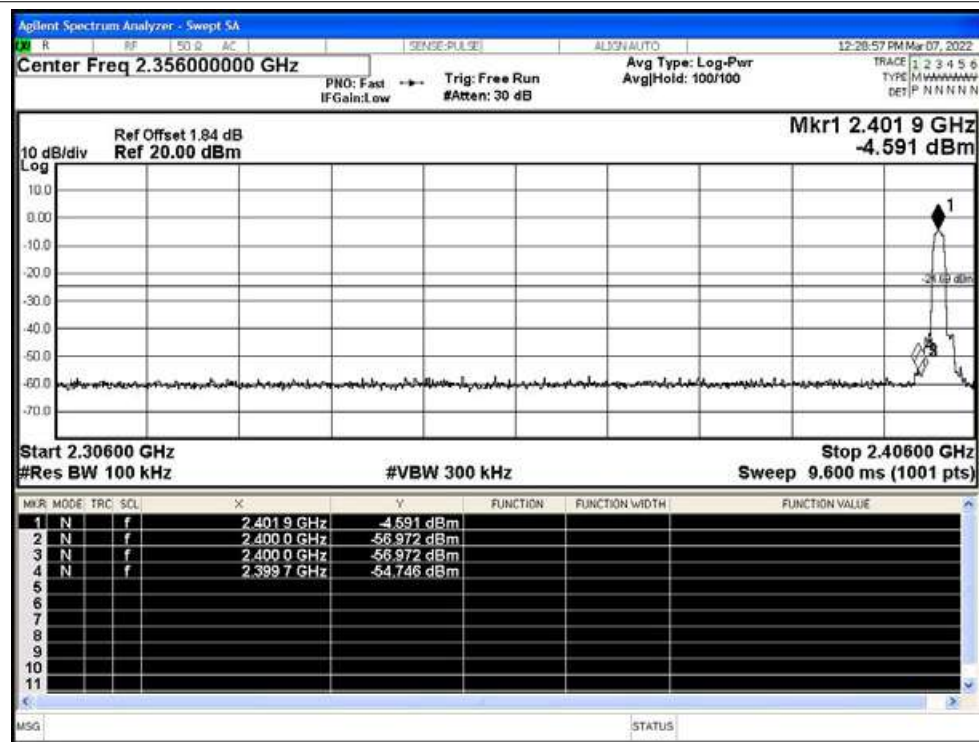




Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

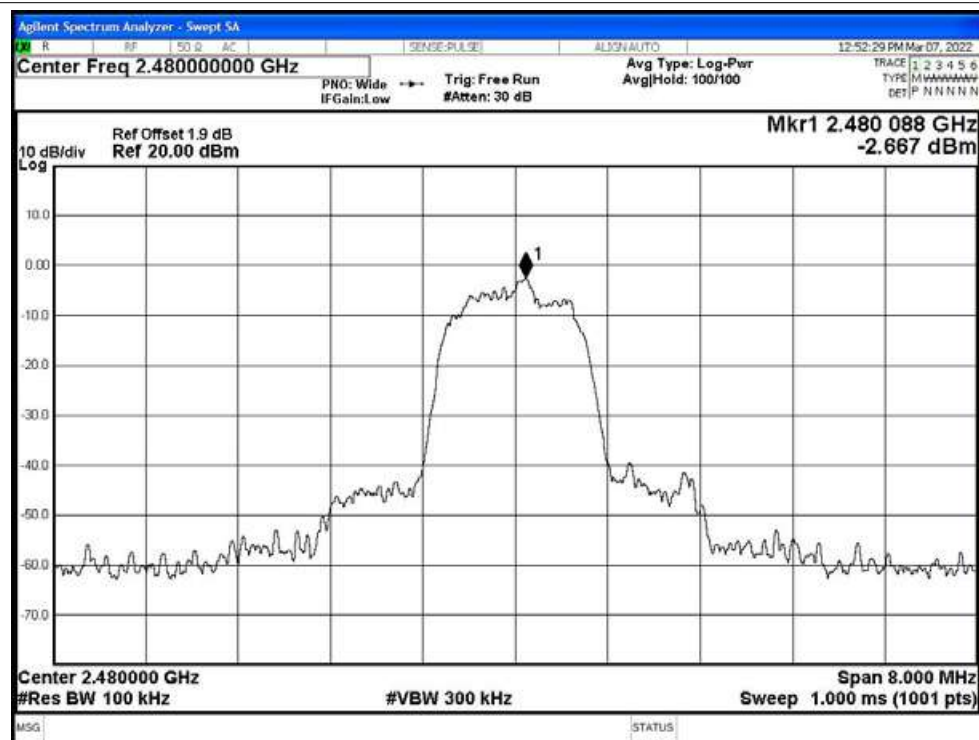


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

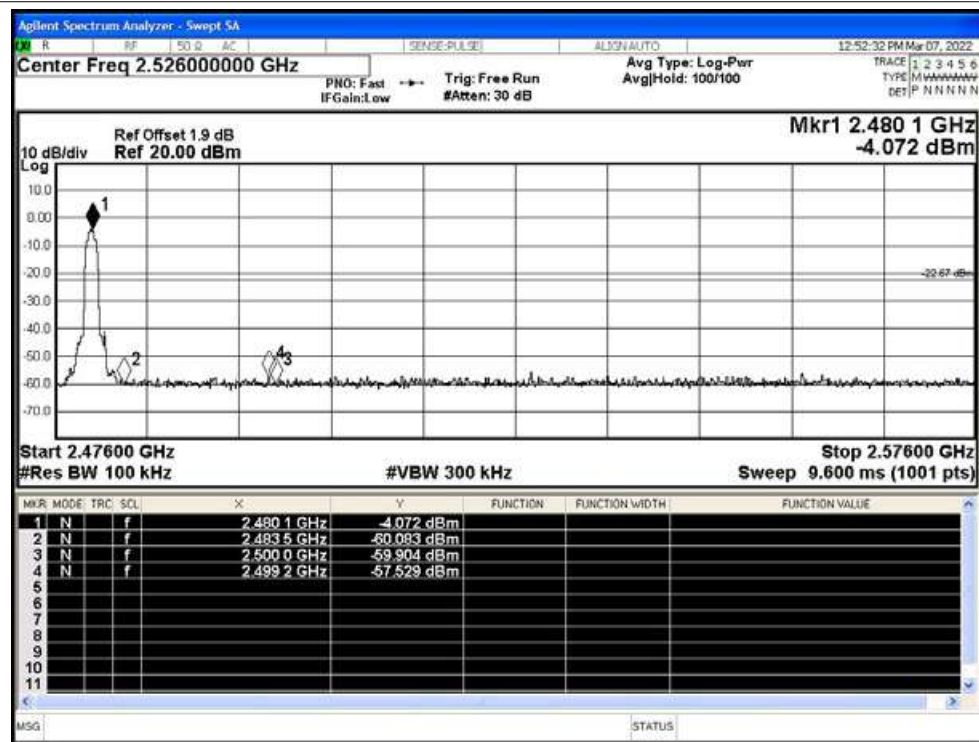




Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref



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





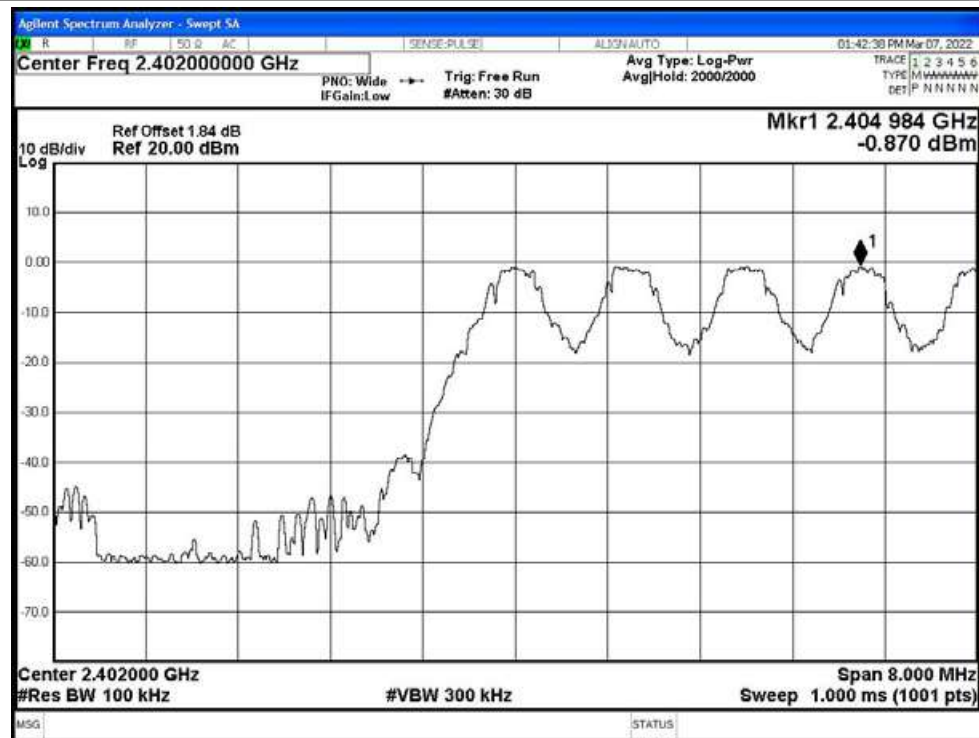
(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-55.15	≤ -20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-55.56	≤ -20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-53.76	≤ -20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-55.18	≤ -20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-54.05	≤ -20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-52.15	≤ -20	Pass

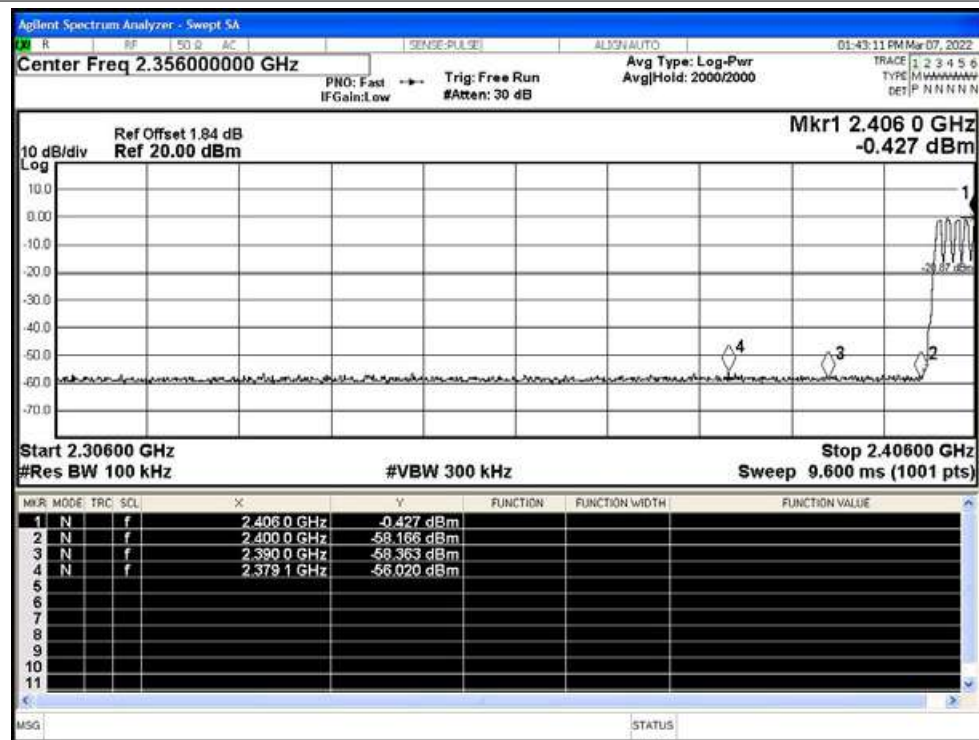


Test Graphs

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

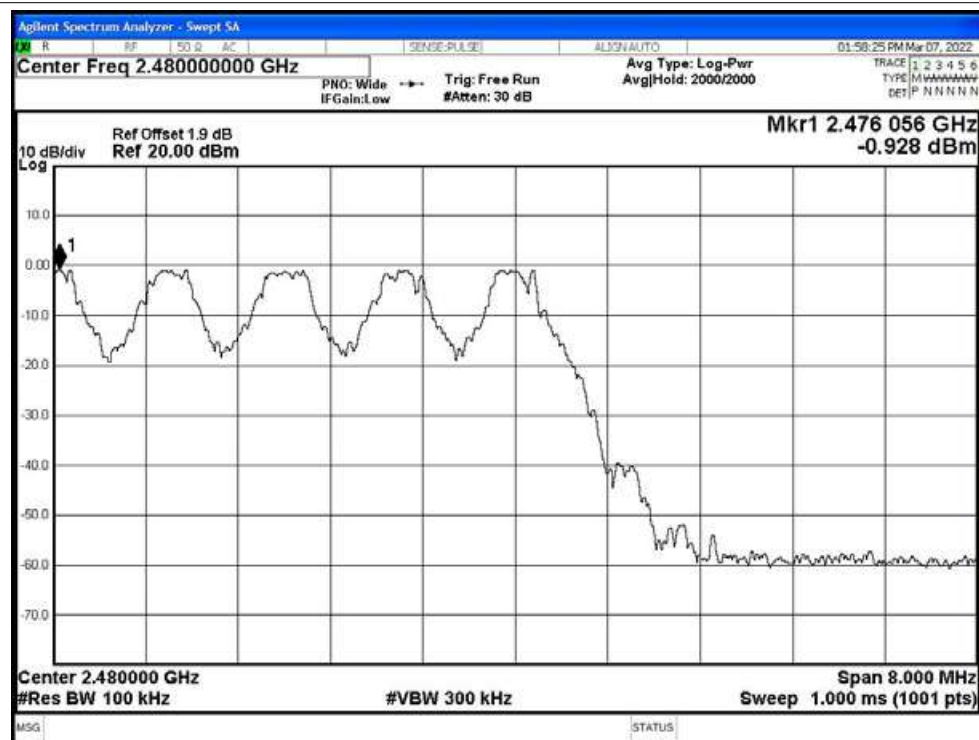


Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

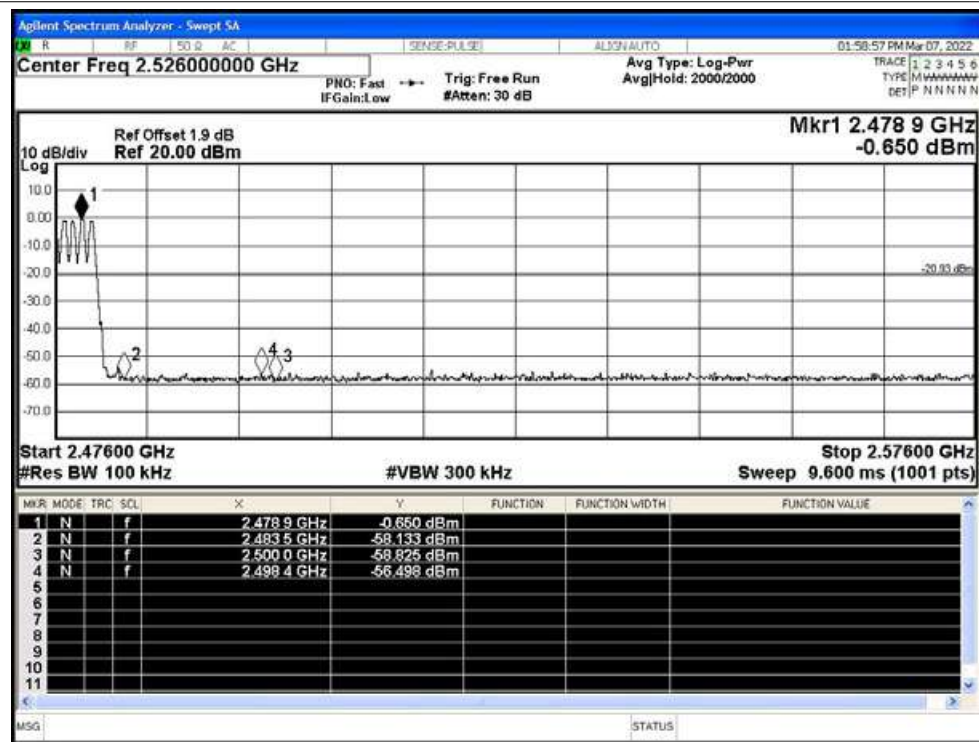




Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref

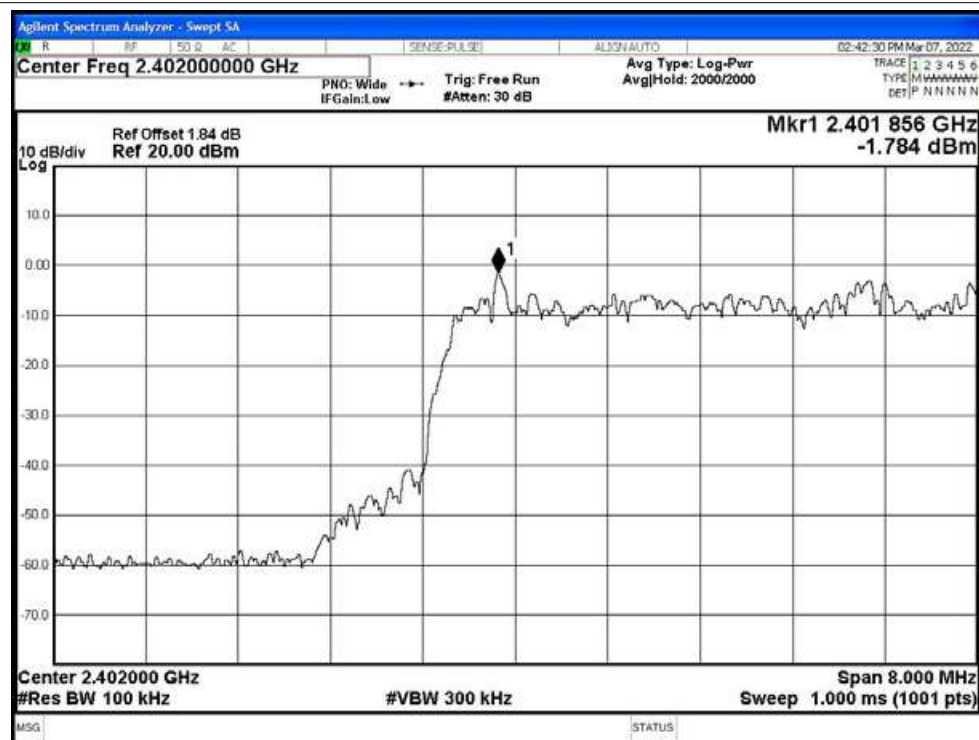


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

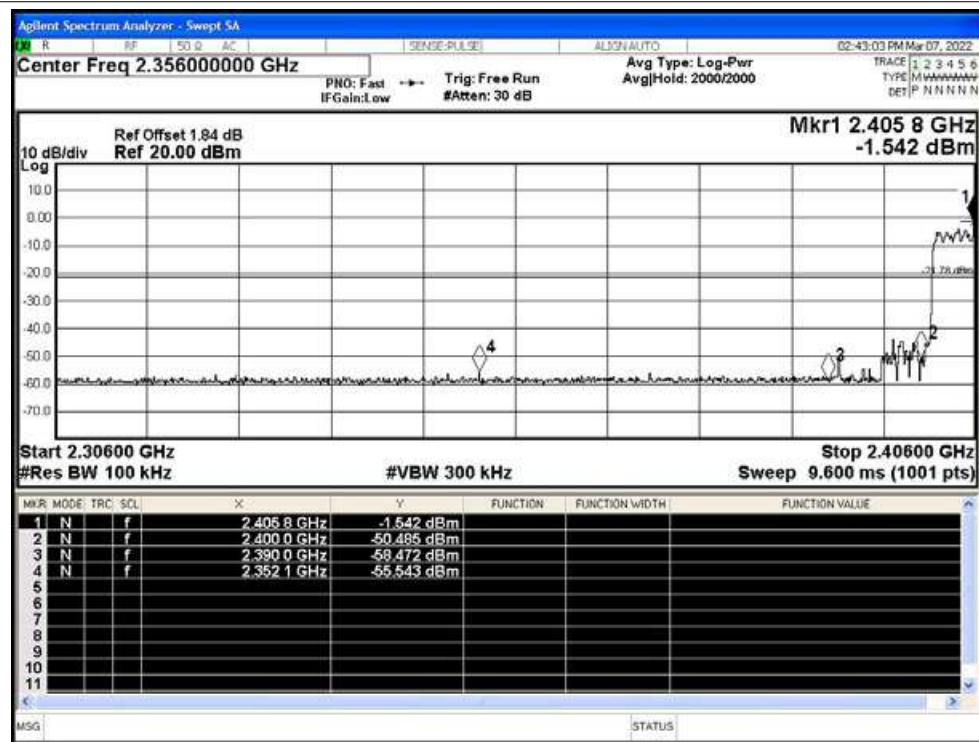




Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

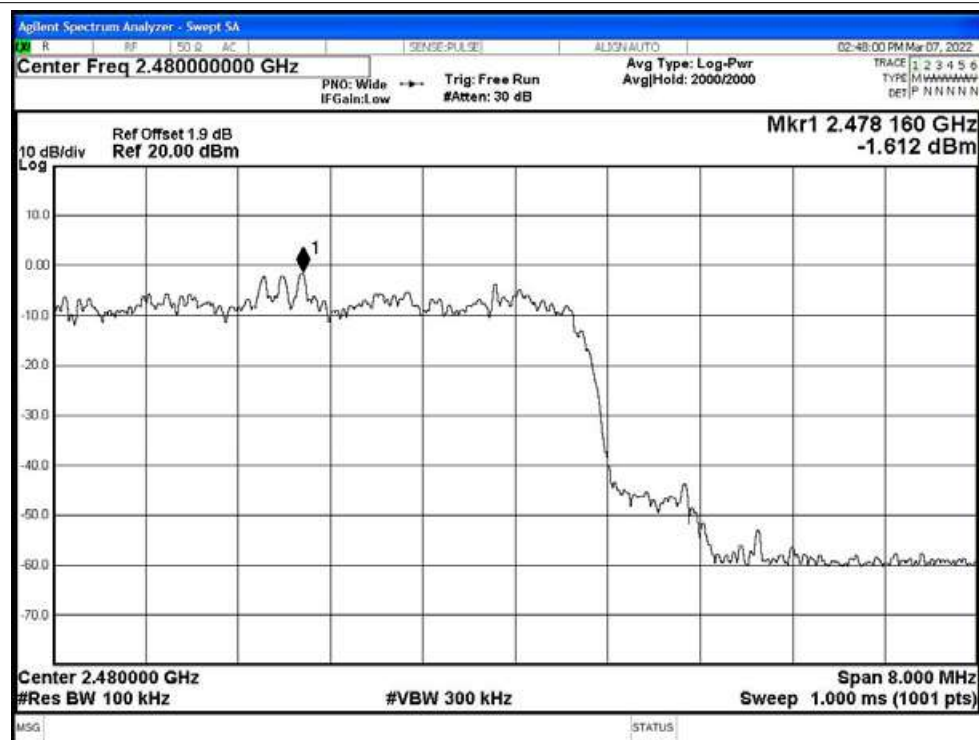


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

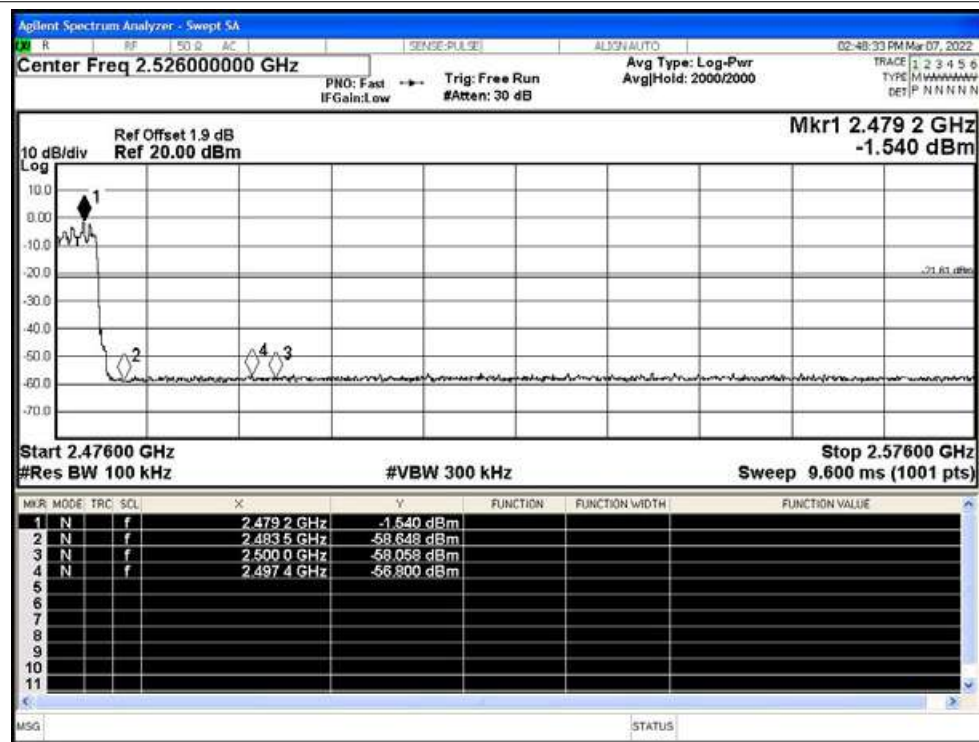




Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref

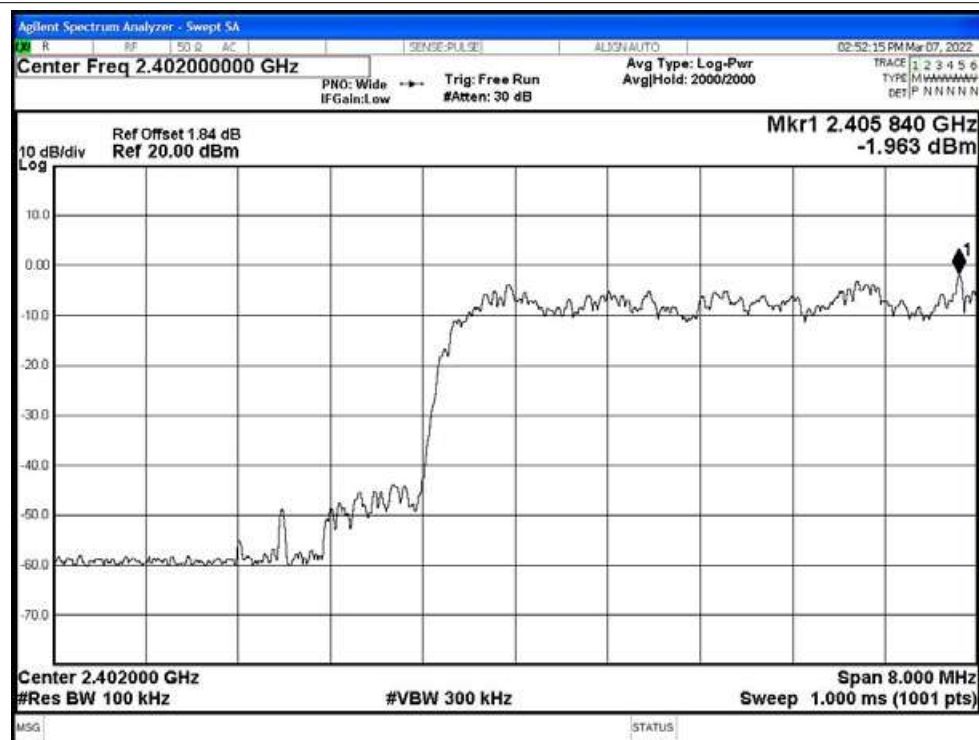


Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission

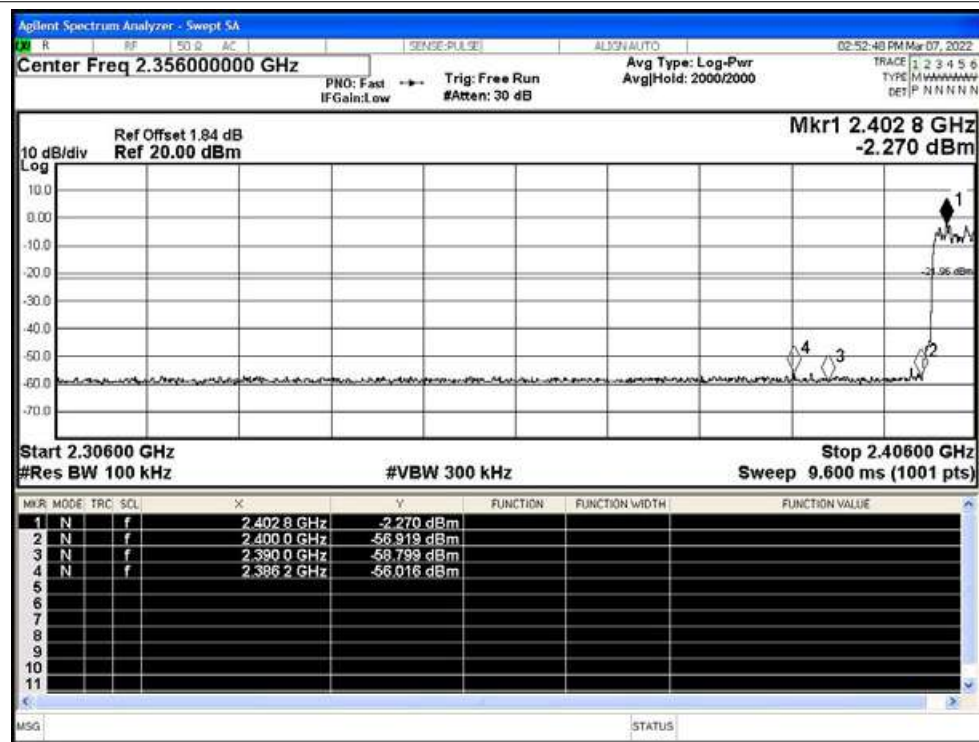




Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref

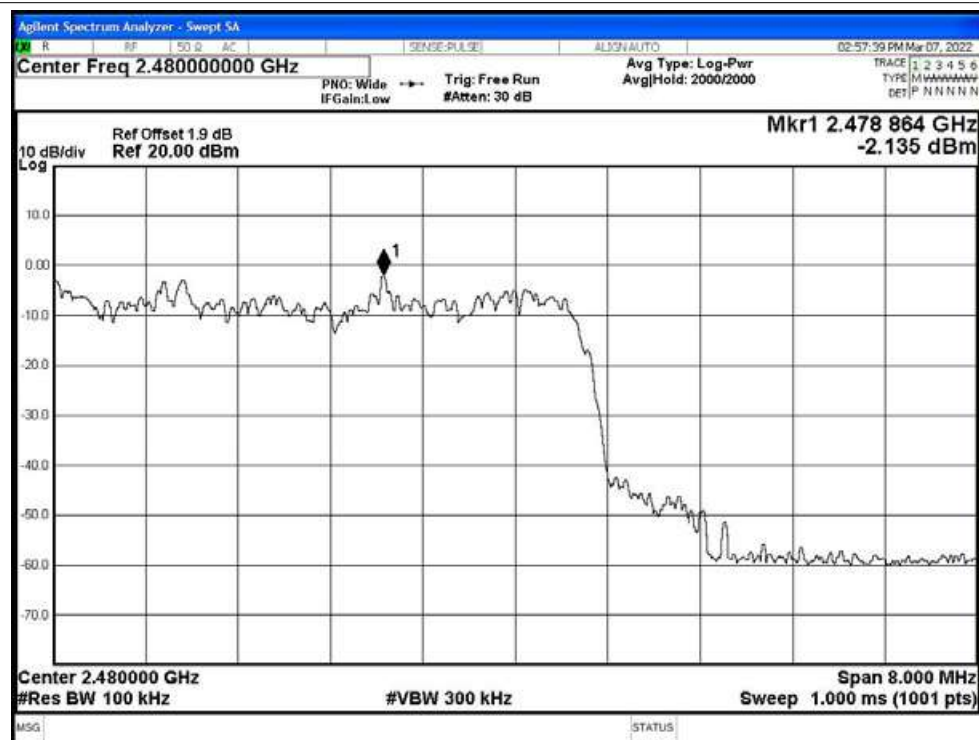


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

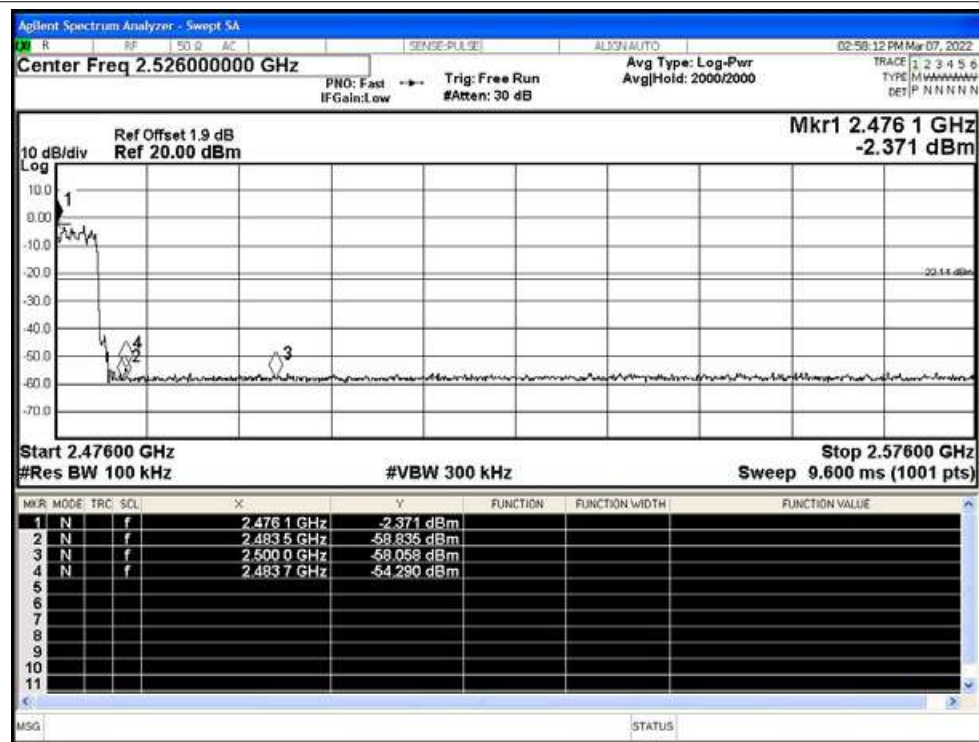




Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref



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





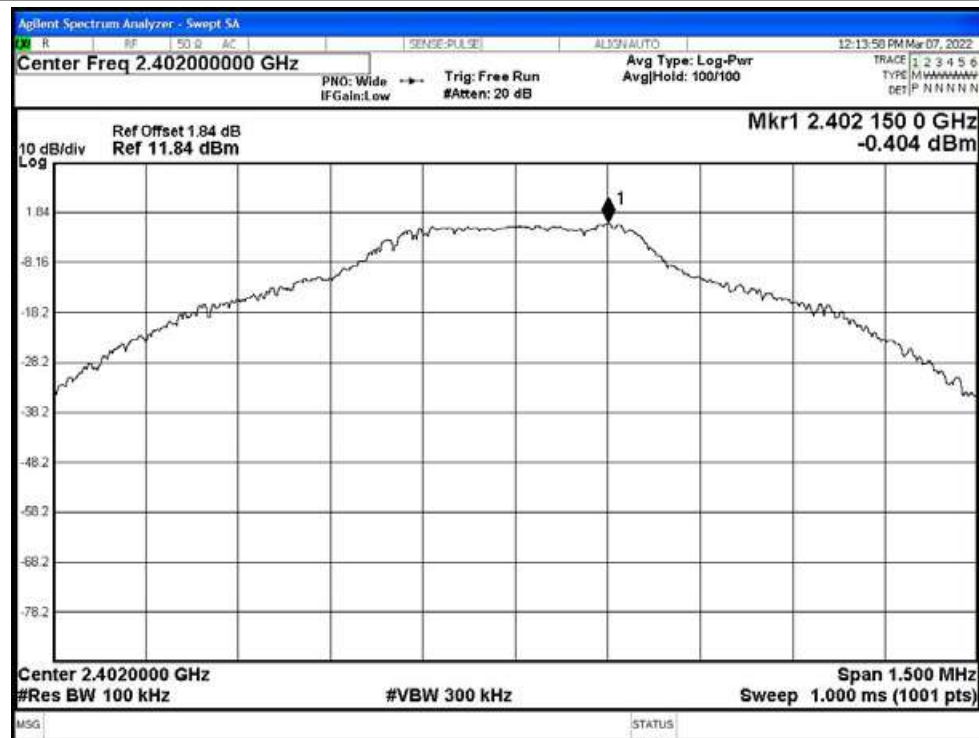
A.7 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-55.86	≤ -20	Pass
NVNT	1-DH5	2441	Ant1	-55.3	≤ -20	Pass
NVNT	1-DH5	2480	Ant1	-54.9	≤ -20	Pass
NVNT	2-DH5	2402	Ant1	-53.4	≤ -20	Pass
NVNT	2-DH5	2441	Ant1	-52.83	≤ -20	Pass
NVNT	2-DH5	2480	Ant1	-32.91	≤ -20	Pass
NVNT	3-DH5	2402	Ant1	-48.38	≤ -20	Pass
NVNT	3-DH5	2441	Ant1	-44.05	≤ -20	Pass
NVNT	3-DH5	2480	Ant1	-49.47	≤ -20	Pass

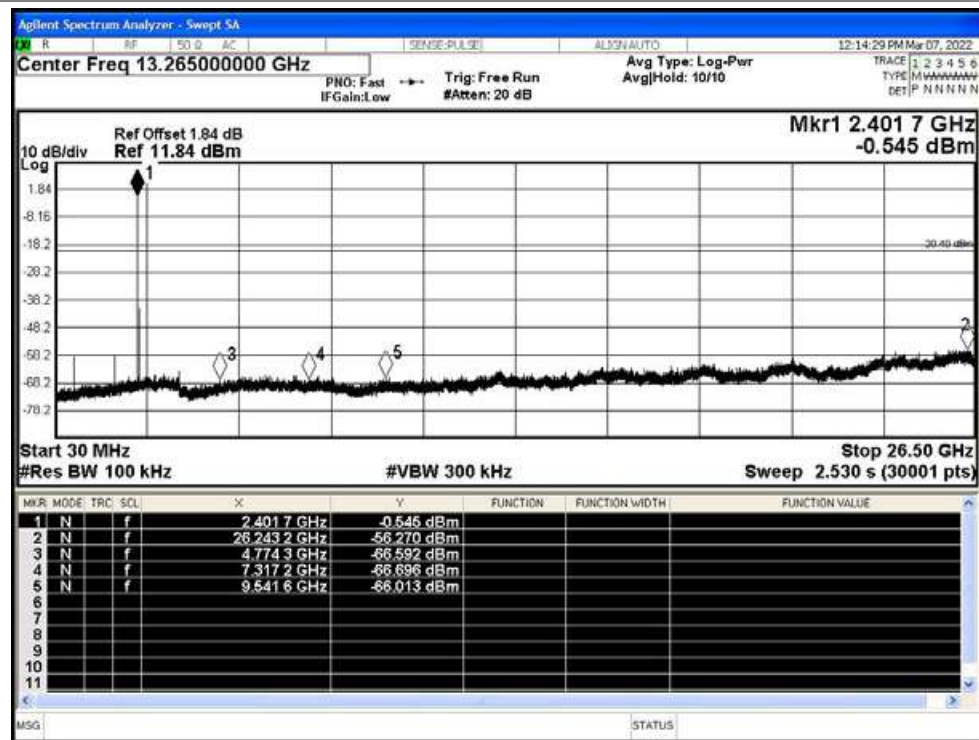


Test Graphs

Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission

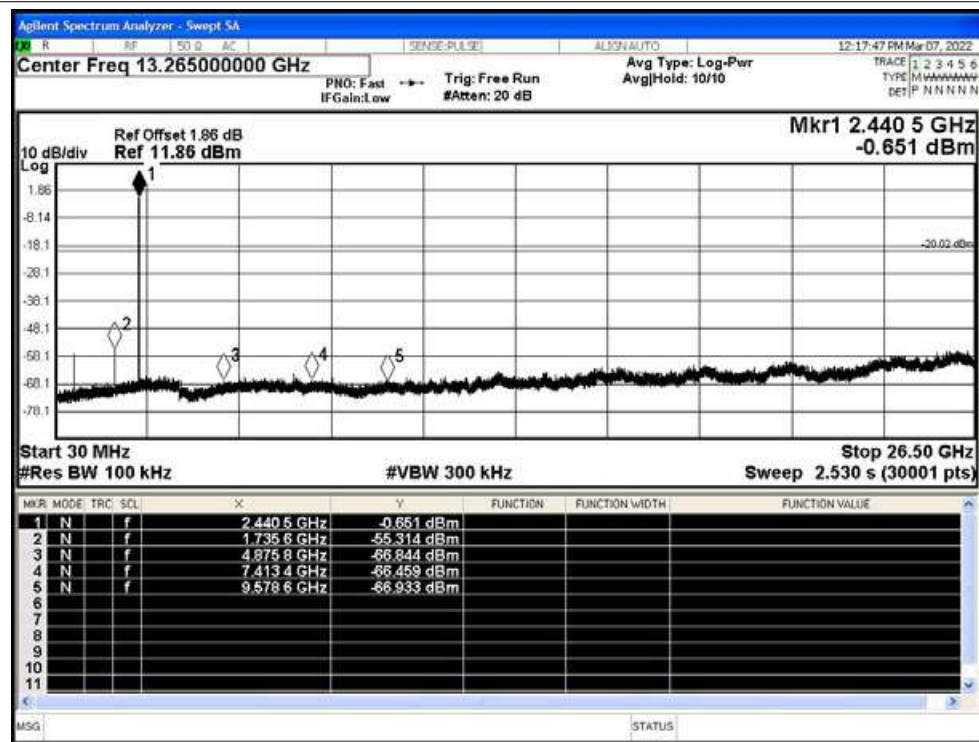




Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref

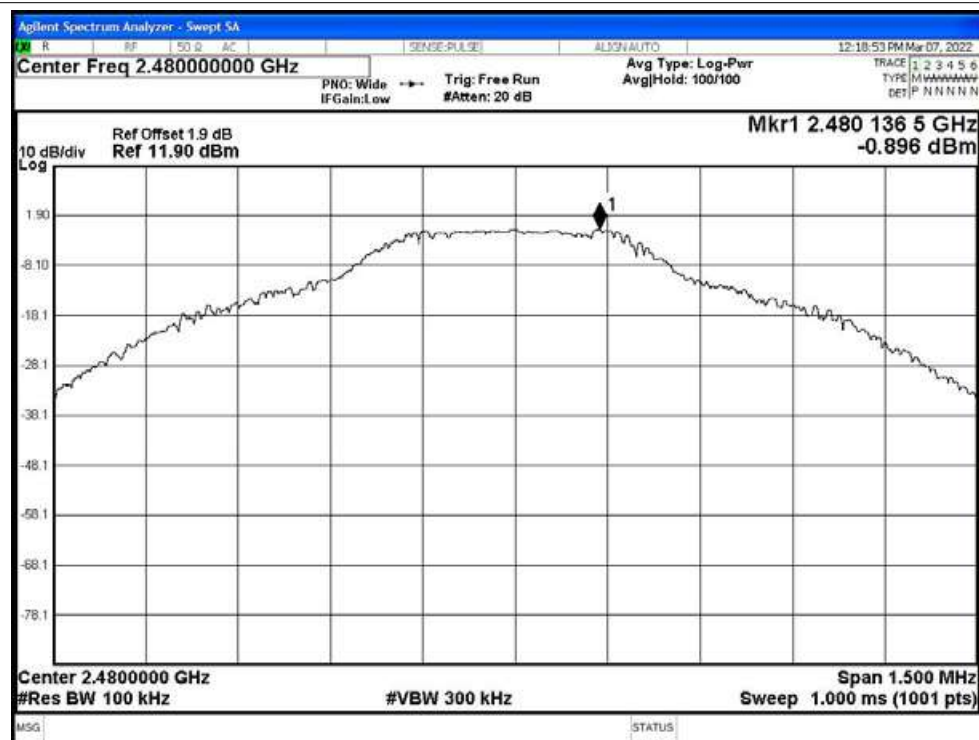


Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission

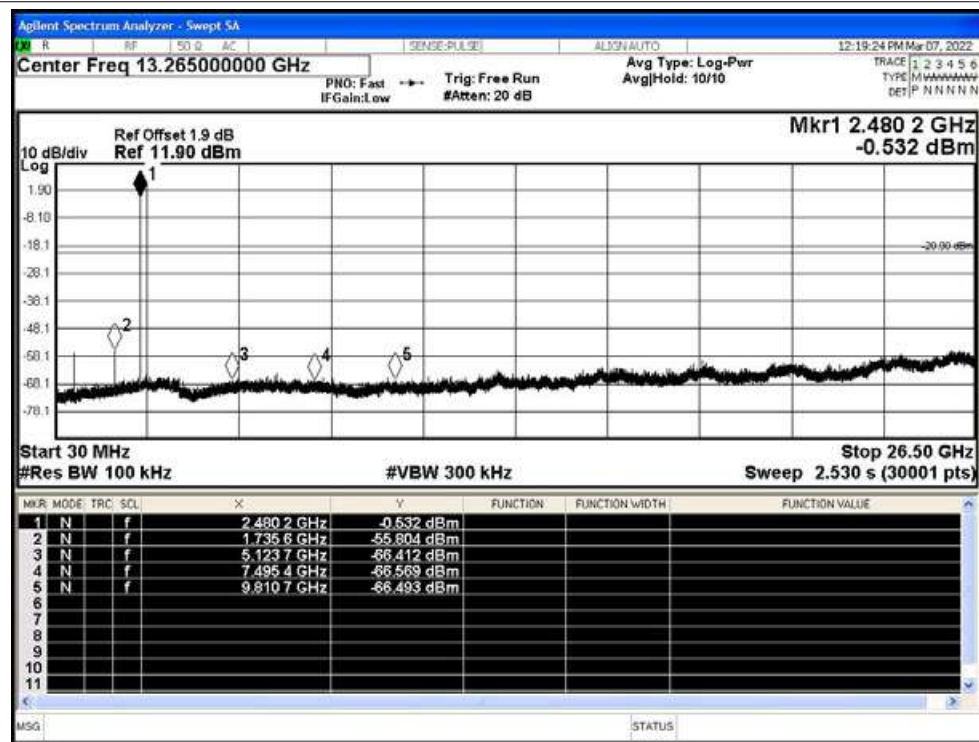




Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref

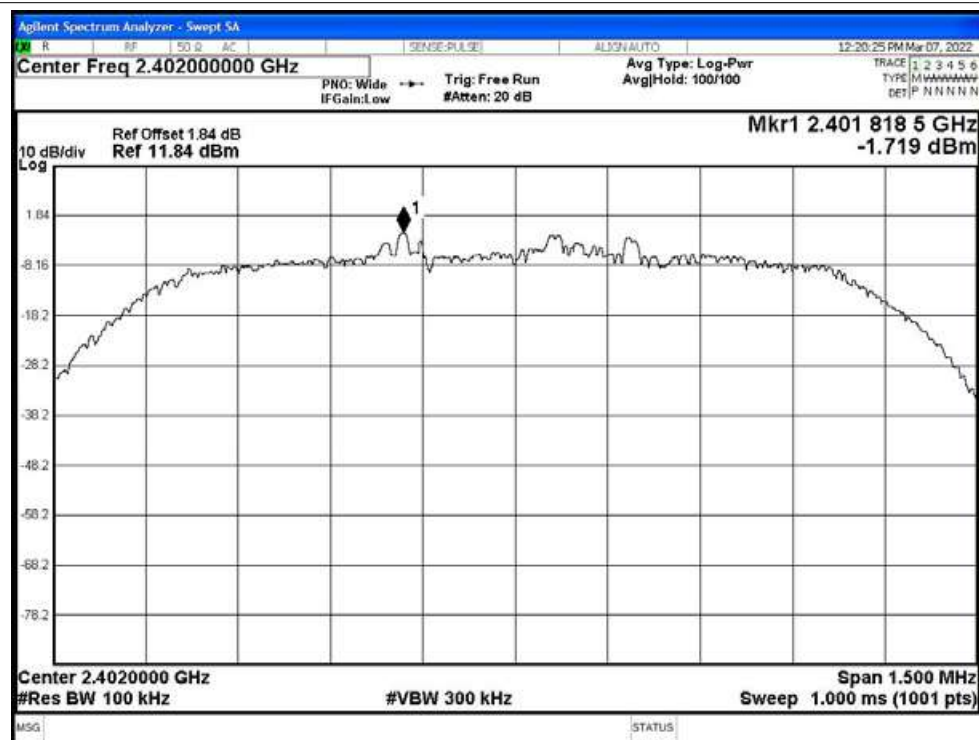


Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

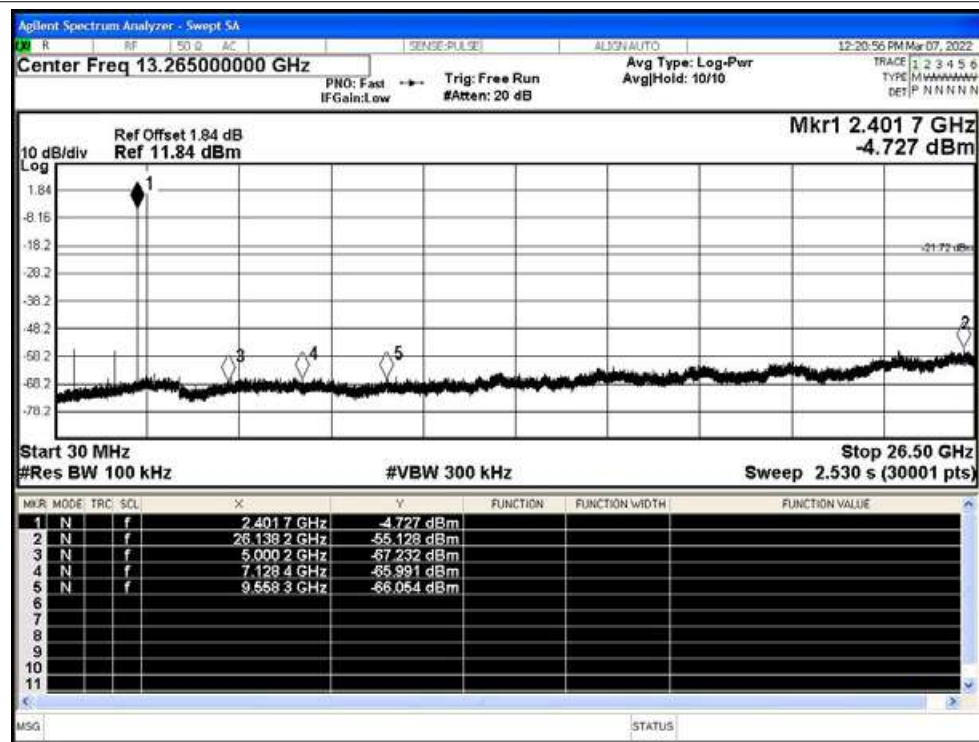




Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

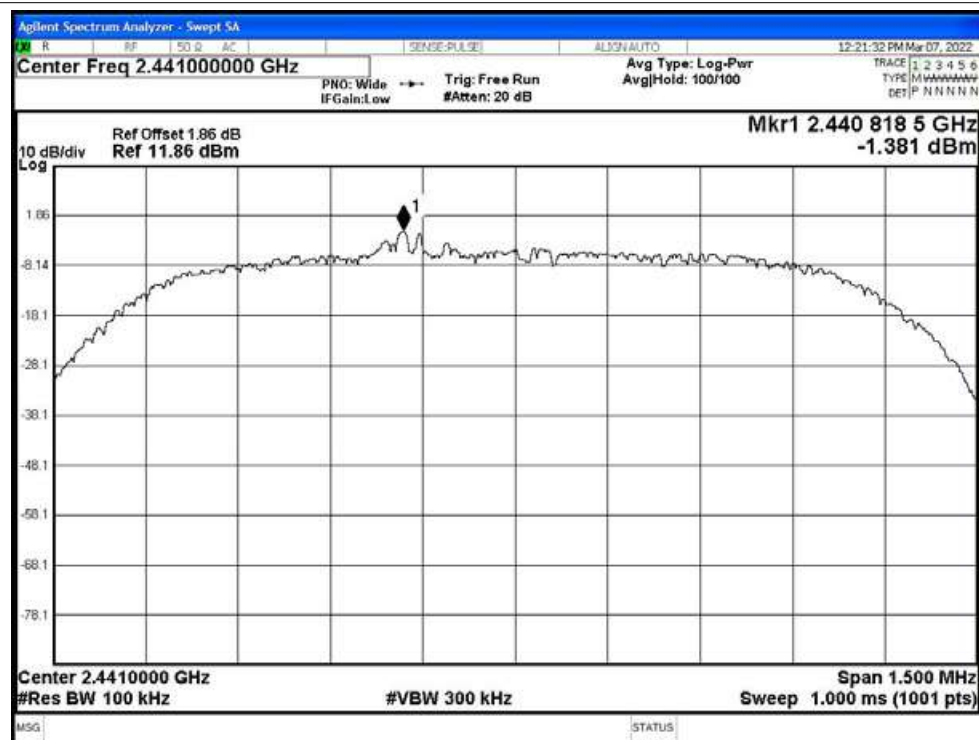


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

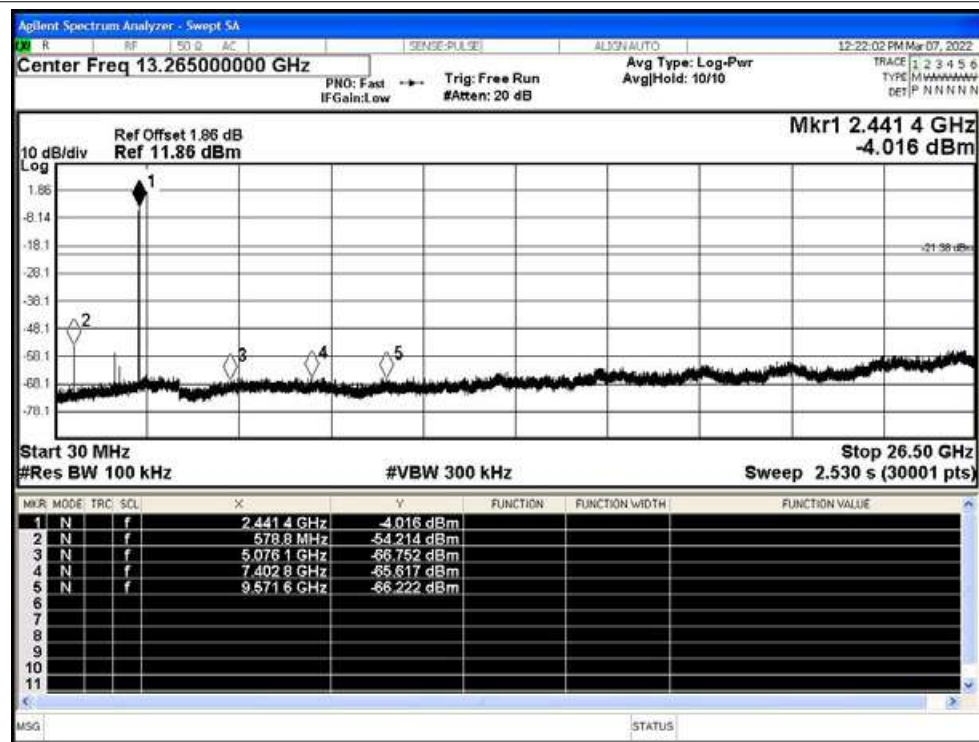




Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref

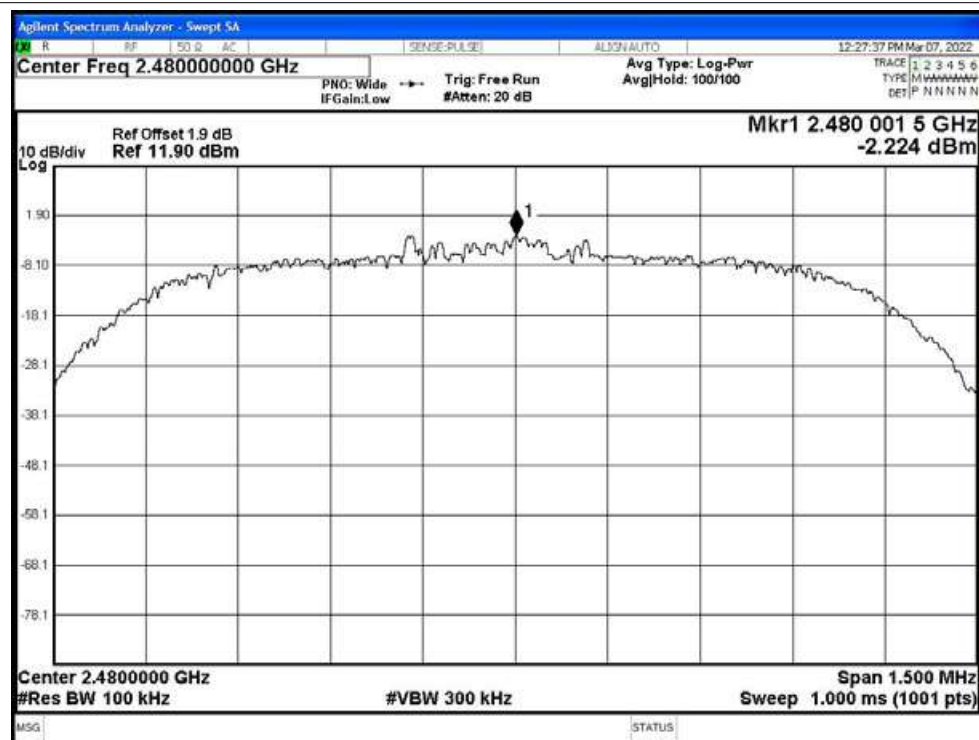


Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission

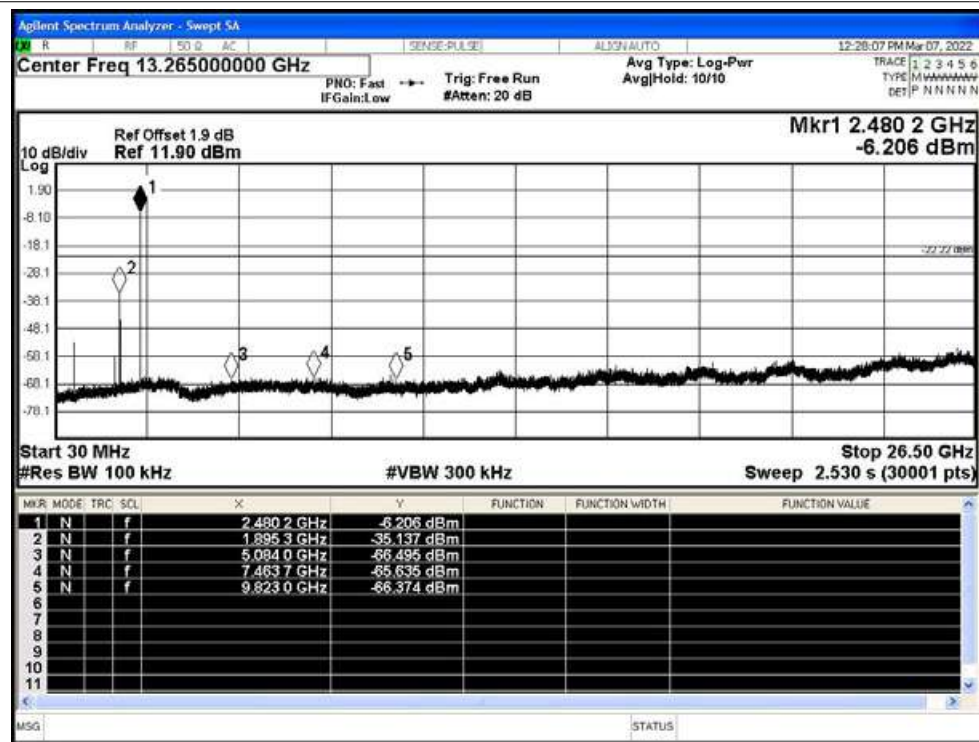




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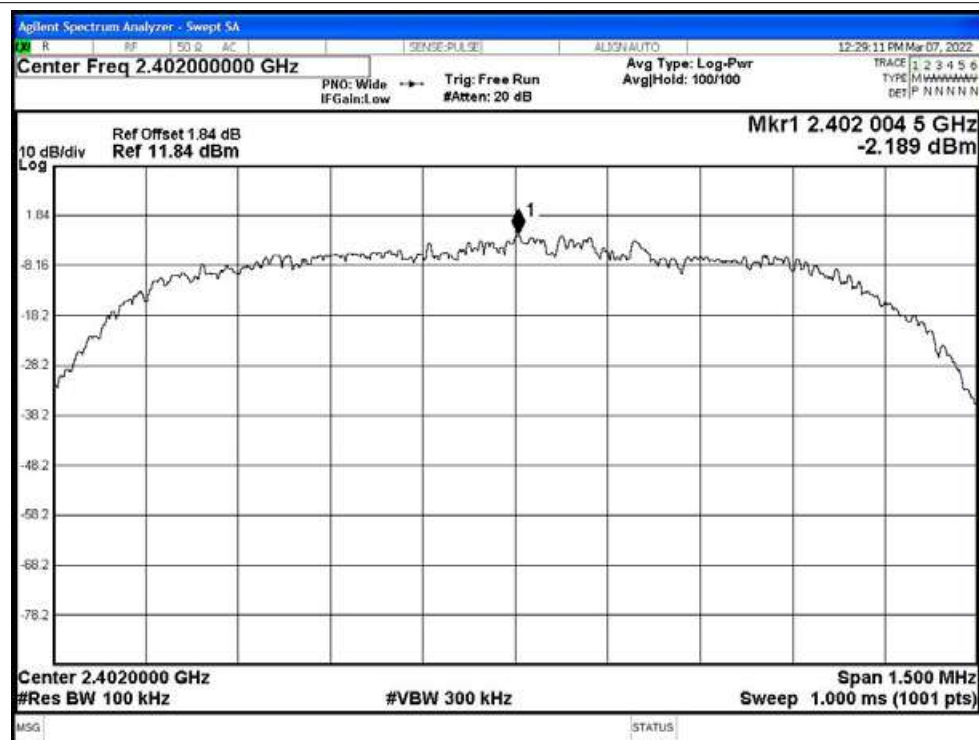


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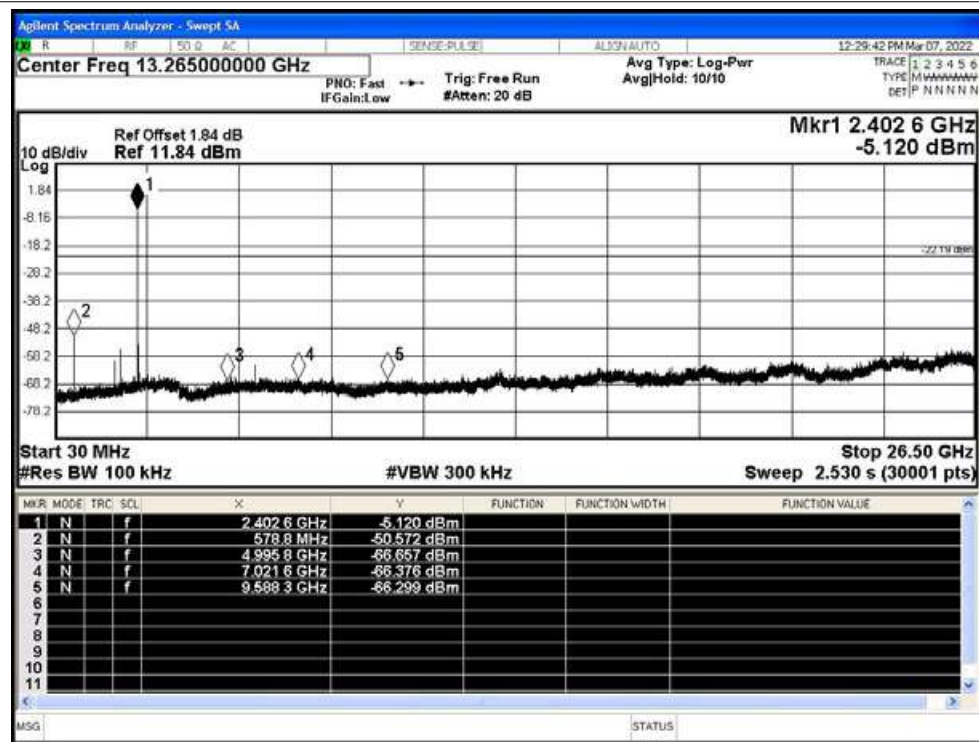




Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref

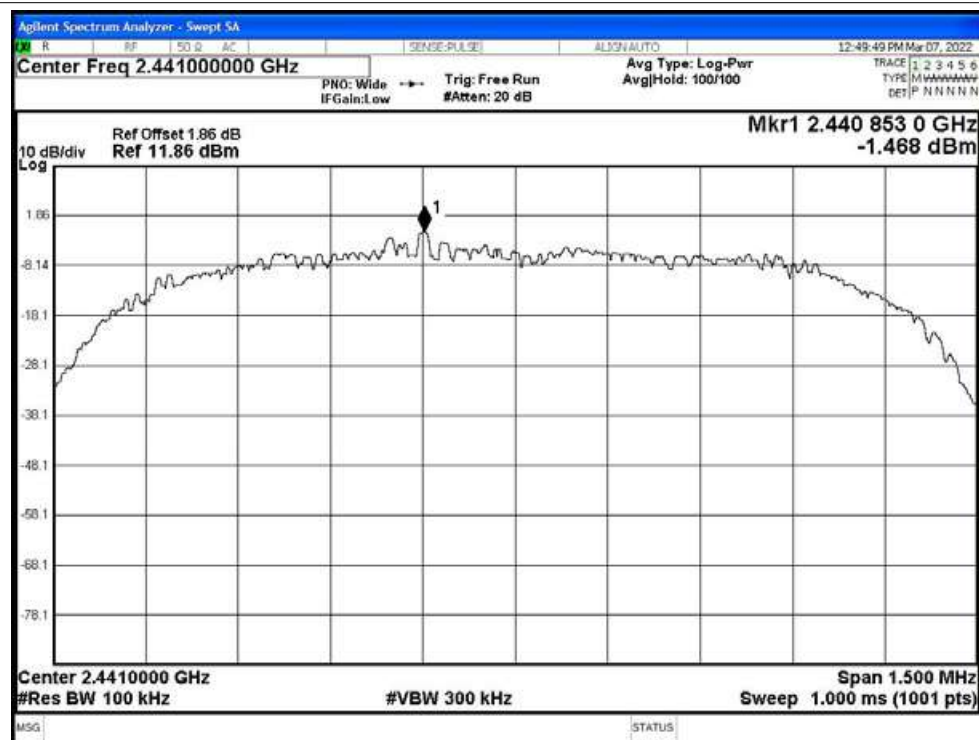


Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission

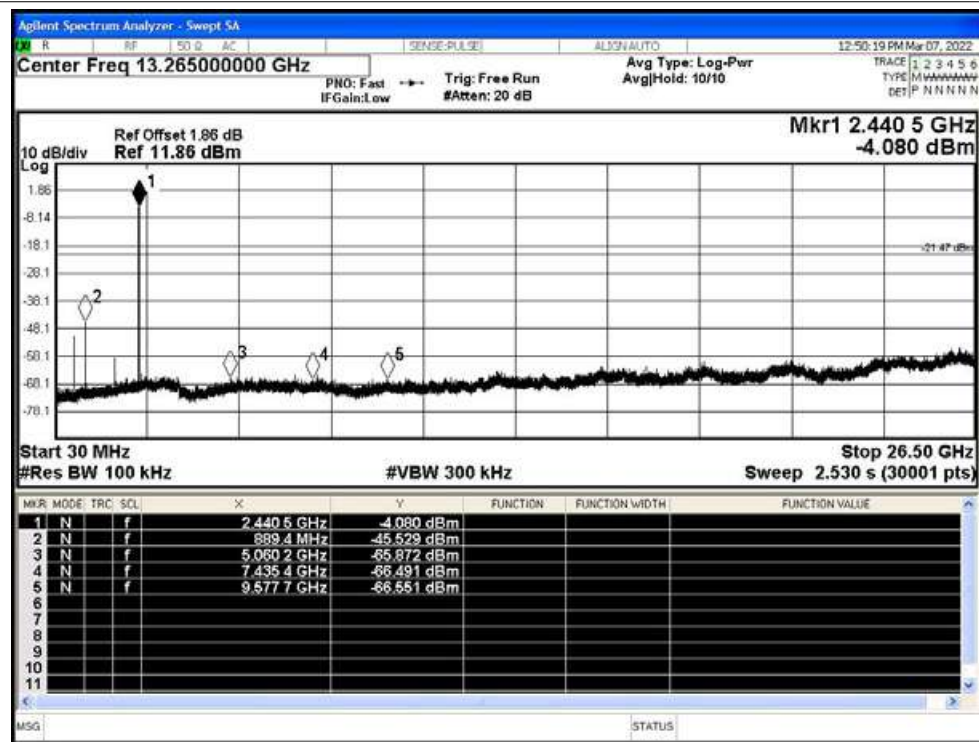




Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref

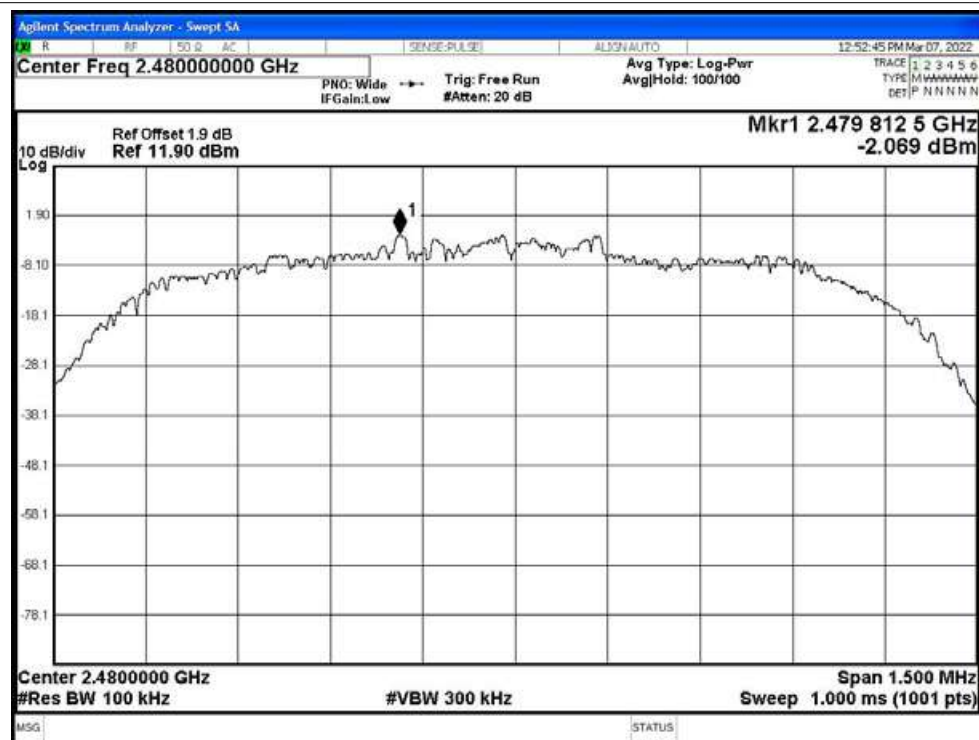


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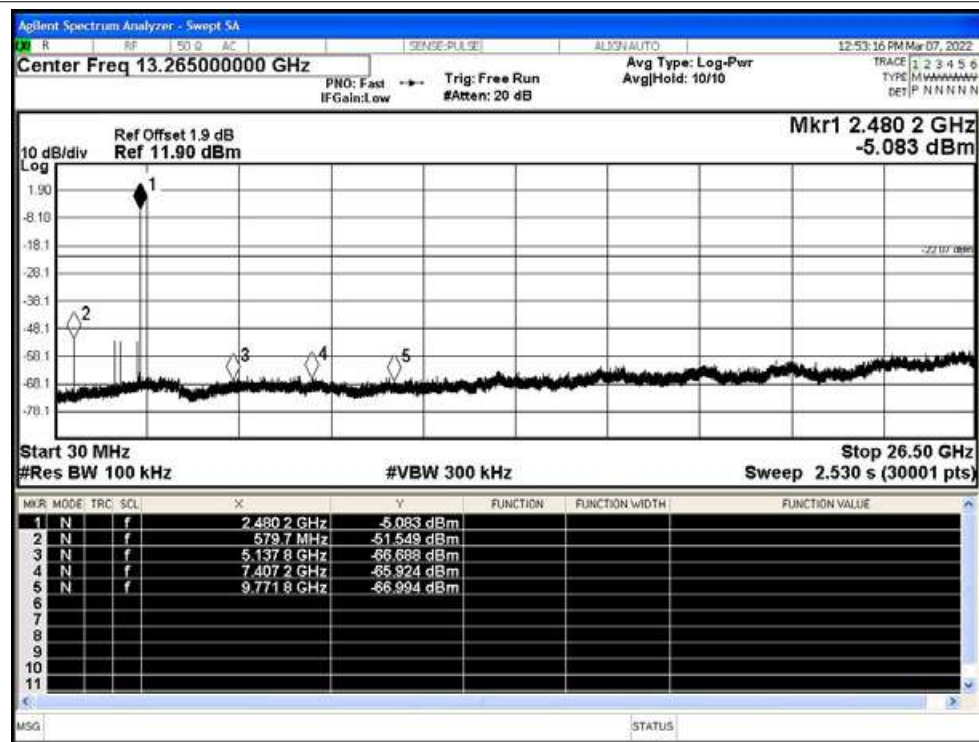




Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission





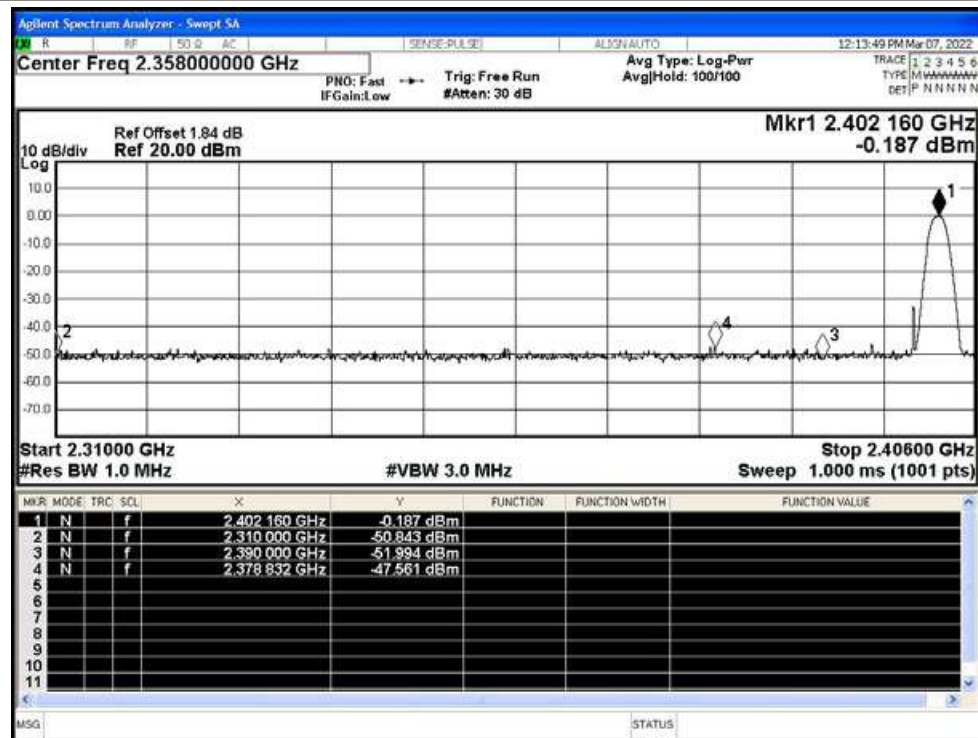
A.8 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-50.84	2	46.42	Peak	≤74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-60.69	2	36.57	Average	≤54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2378.832	-47.56	2	49.7	Peak	≤74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2380.272	-60.11	2	37.15	Average	≤54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.6	2	46.66	Peak	≤74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-60.31	2	36.95	Average	≤54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-48.87	2	48.39	Peak	≤74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-59.78	2	37.48	Average	≤54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.208	-36.88	2	60.38	Peak	≤74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.536	-59.75	2	37.51	Average	≤54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.77	2	47.49	Peak	≤74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-59.96	2	37.3	Average	≤54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.74	2	45.52	Peak	≤74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-60.51	2	36.75	Average	≤54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2326.608	-47.29	2	49.97	Peak	≤74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2389.104	-60.13	2	37.13	Average	≤54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-50.76	2	46.5	Peak	≤74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-60.31	2	36.95	Average	≤54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-48.37	2	48.89	Peak	≤74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-59.9	2	37.36	Average	≤54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2484.472	-39.38	2	57.88	Peak	≤74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.896	-59.54	2	37.72	Average	≤54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-48.57	2	48.69	Peak	≤74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-60	2	37.26	Average	≤54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-50.44	2	46.82	Peak	≤74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-60.58	2	36.68	Average	≤54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2325.744	-47.68	2	49.58	Peak	≤74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2379.792	-60.13	2	37.13	Average	≤54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-52.31	2	44.95	Peak	≤74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-60.18	2	37.08	Average	≤54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-50.37	2	46.89	Peak	≤74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-59.68	2	37.58	Average	≤54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2484.208	-40.34	2	56.92	Peak	≤74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.896	-59.59	2	37.67	Average	≤54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-50.06	2	47.2	Peak	≤74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-59.96	2	37.3	Average	≤54	Pass

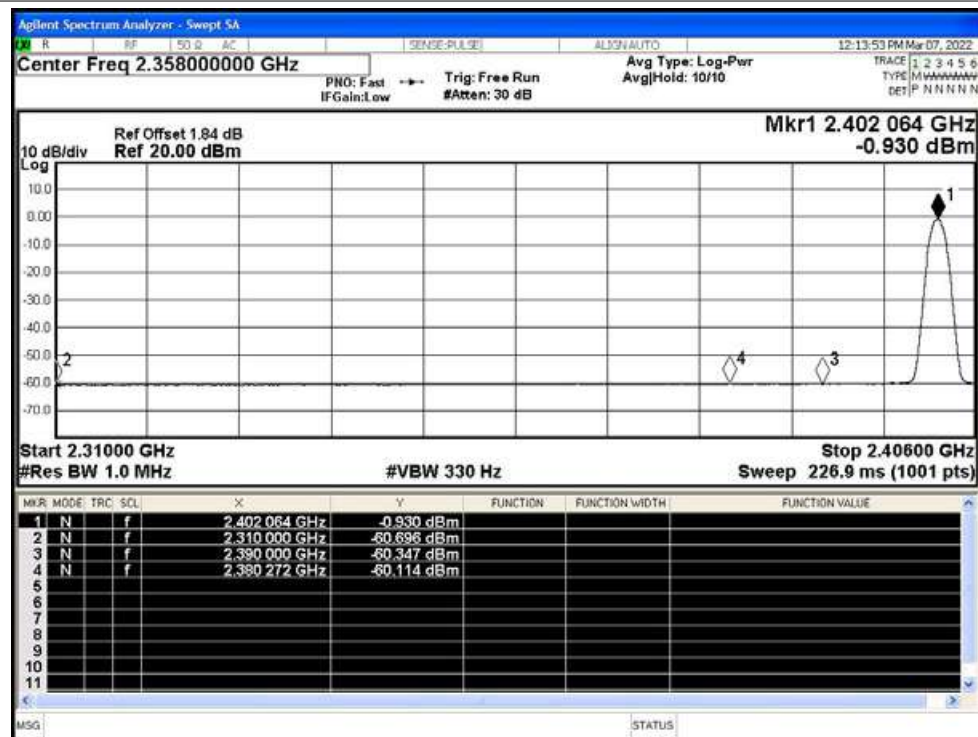


Test Graphs

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

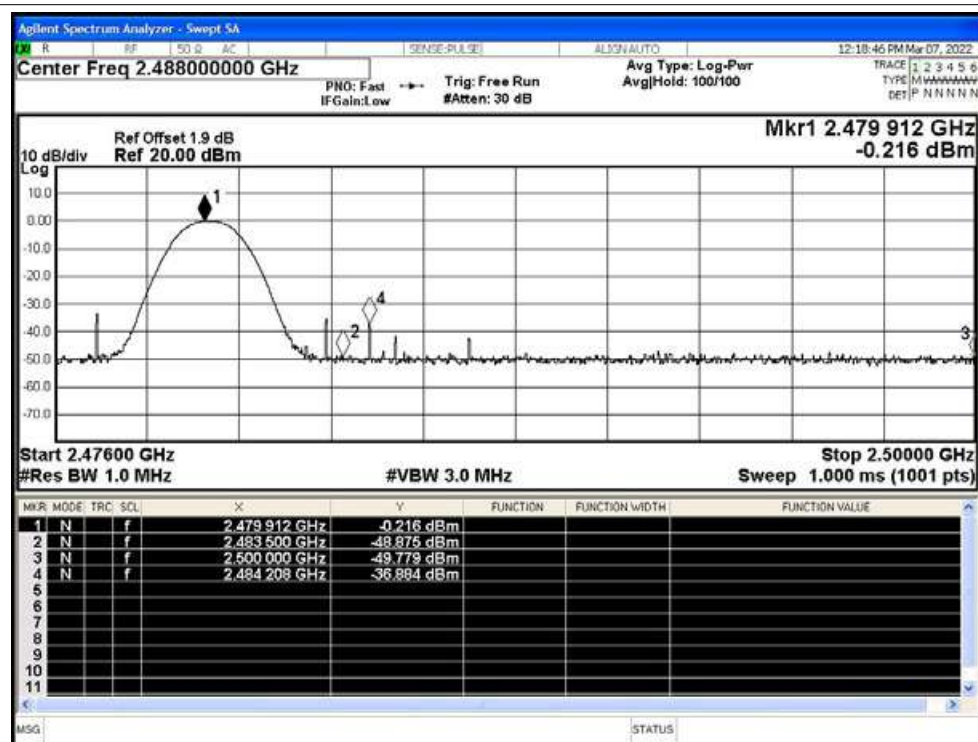


Restrict Band NVNT 1-DH5 2402MHz Ant1 No-Hopping Average

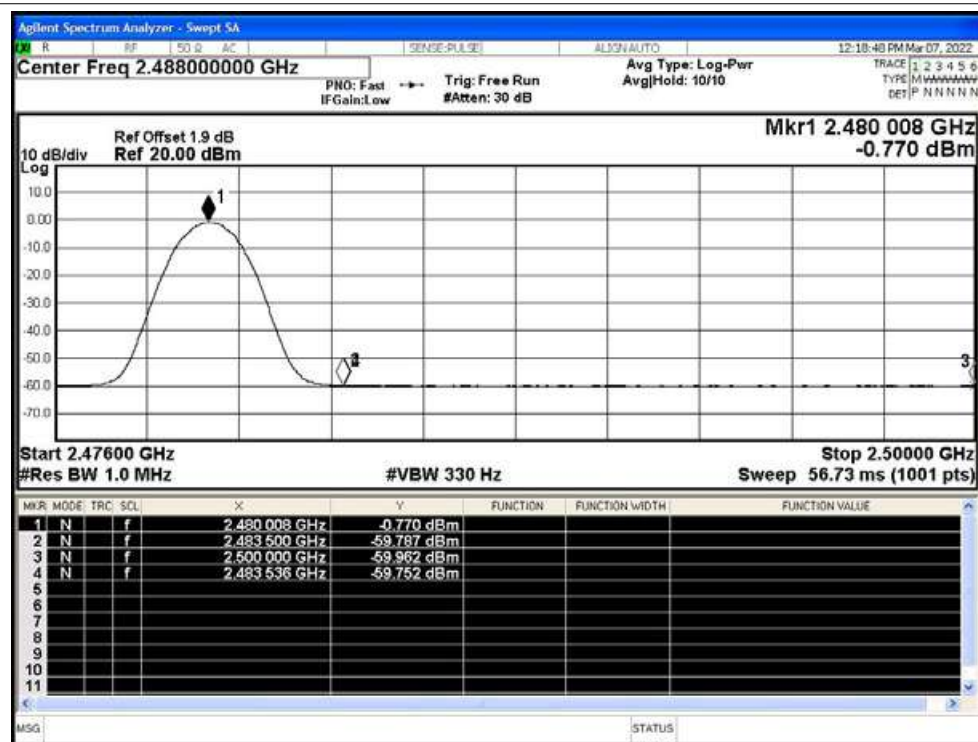




Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

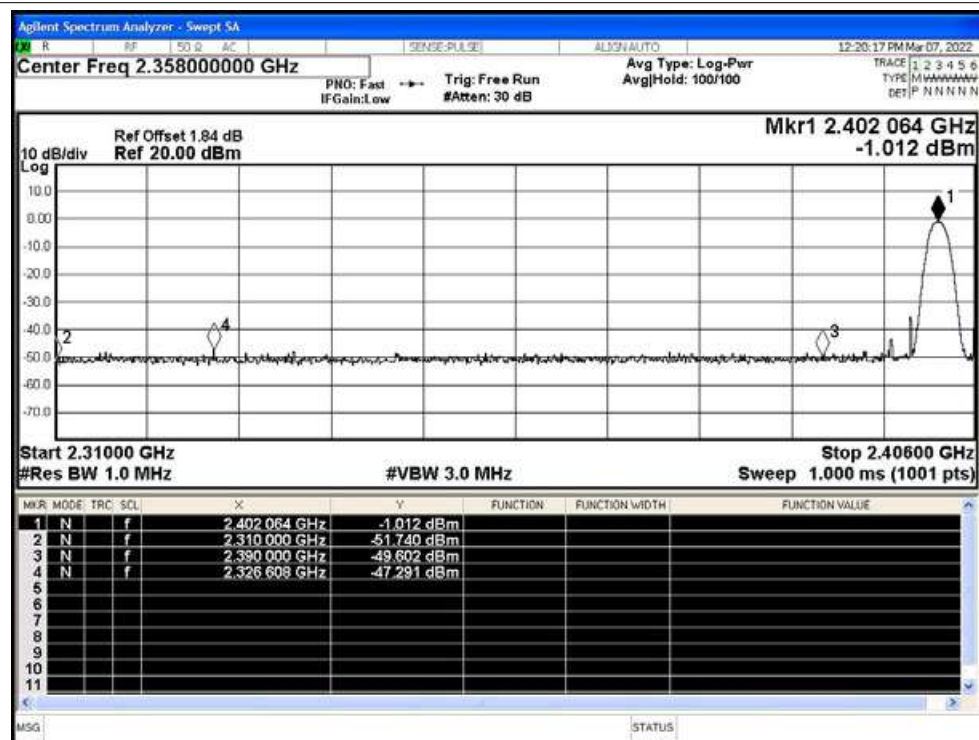


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

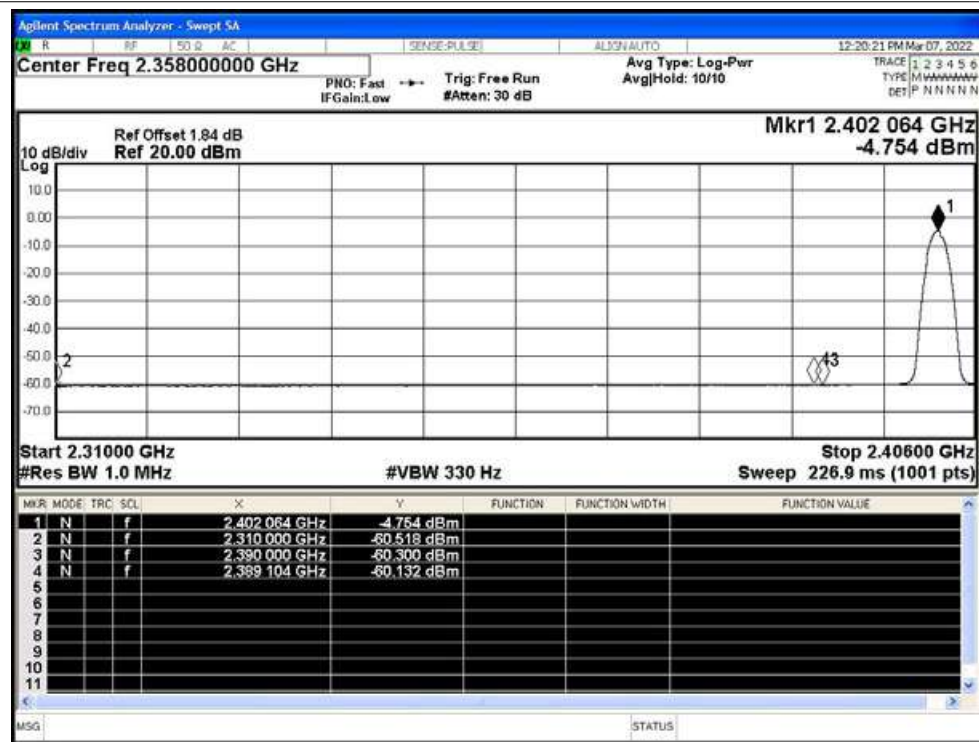




Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak

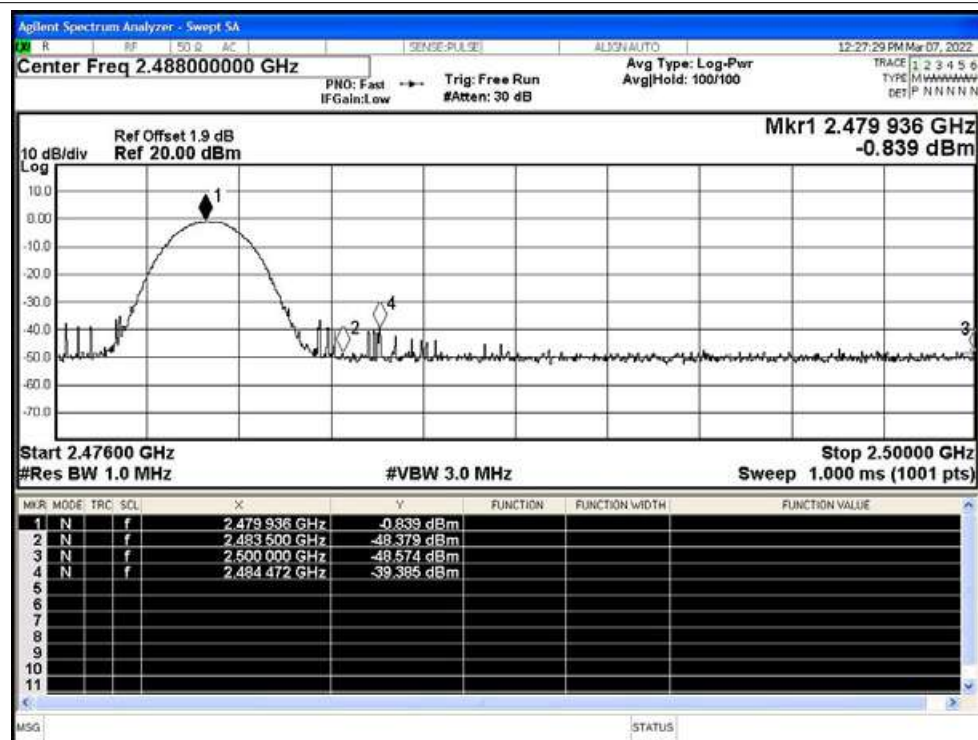


Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average

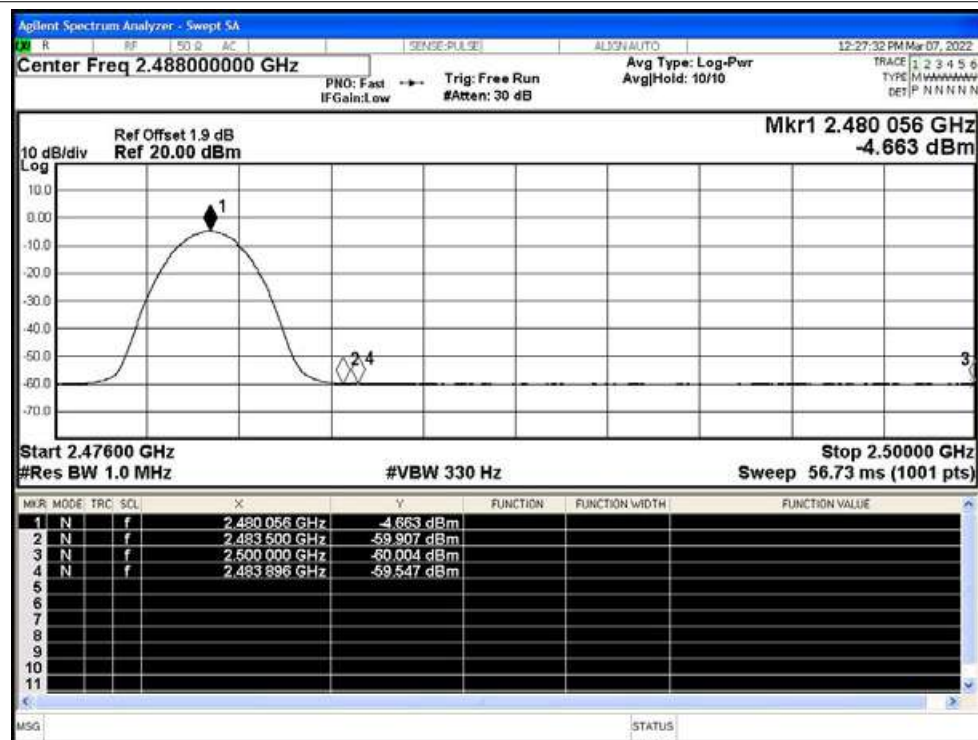




Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak

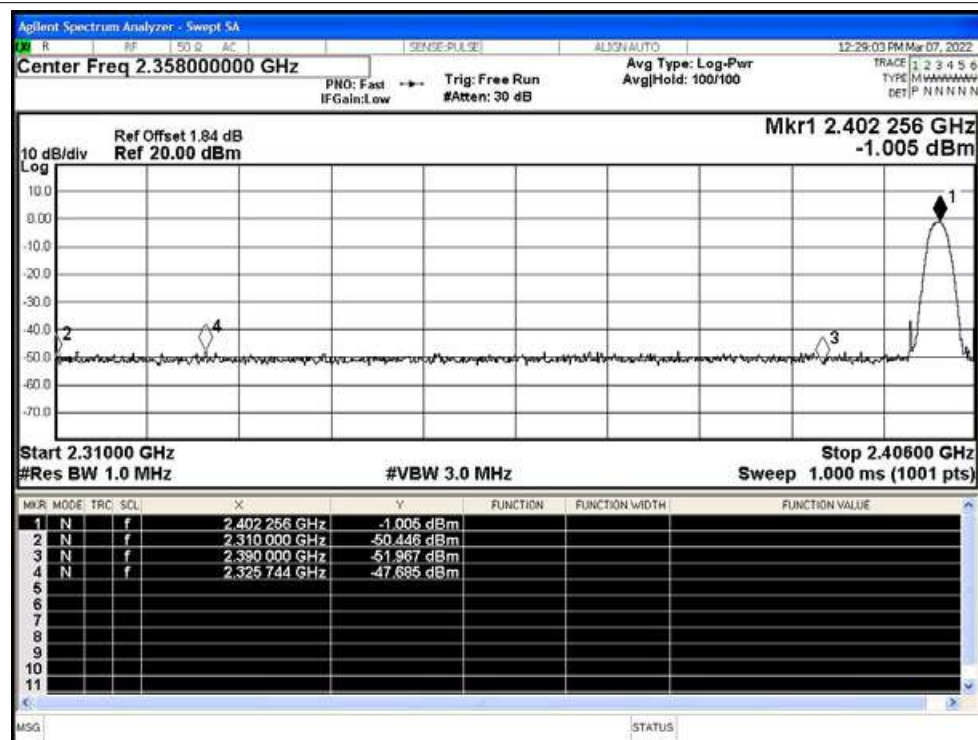


Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average

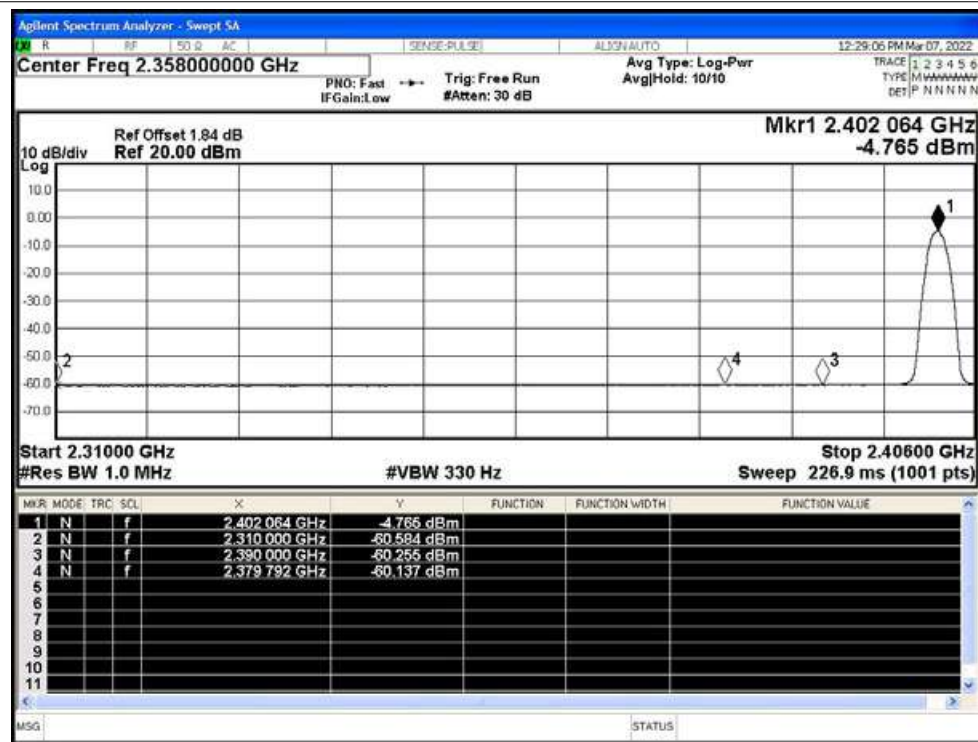




Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Peak

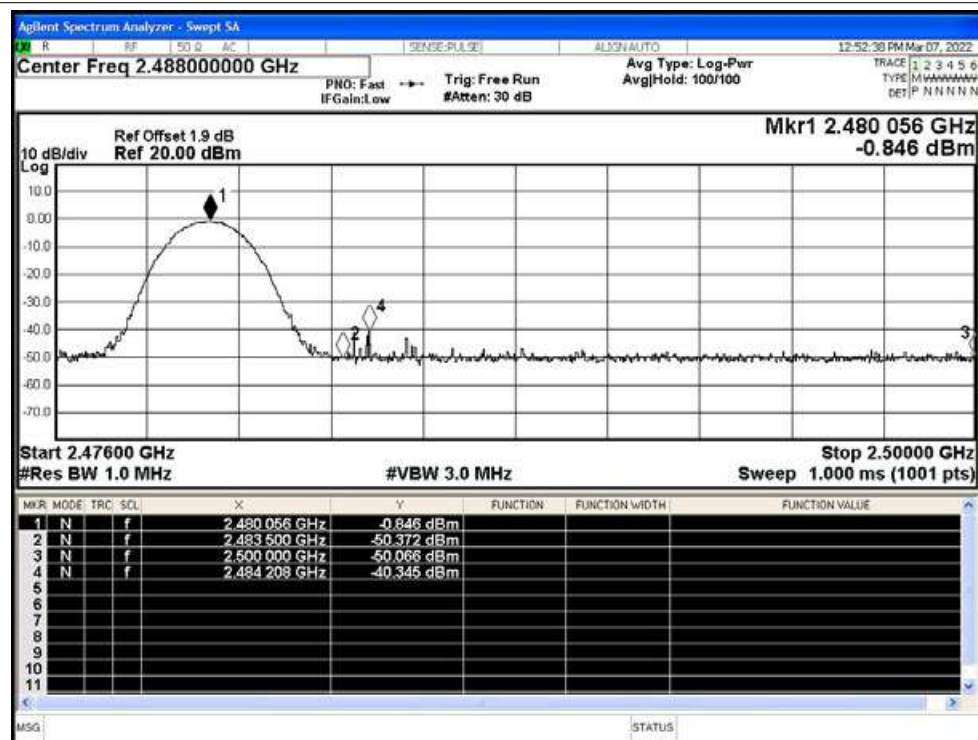


Restrict Band NVNT 3-DH5 2402MHz Ant1 No-Hopping Average





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



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

