

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: TABLET PC
Test Model: RubensTab T12

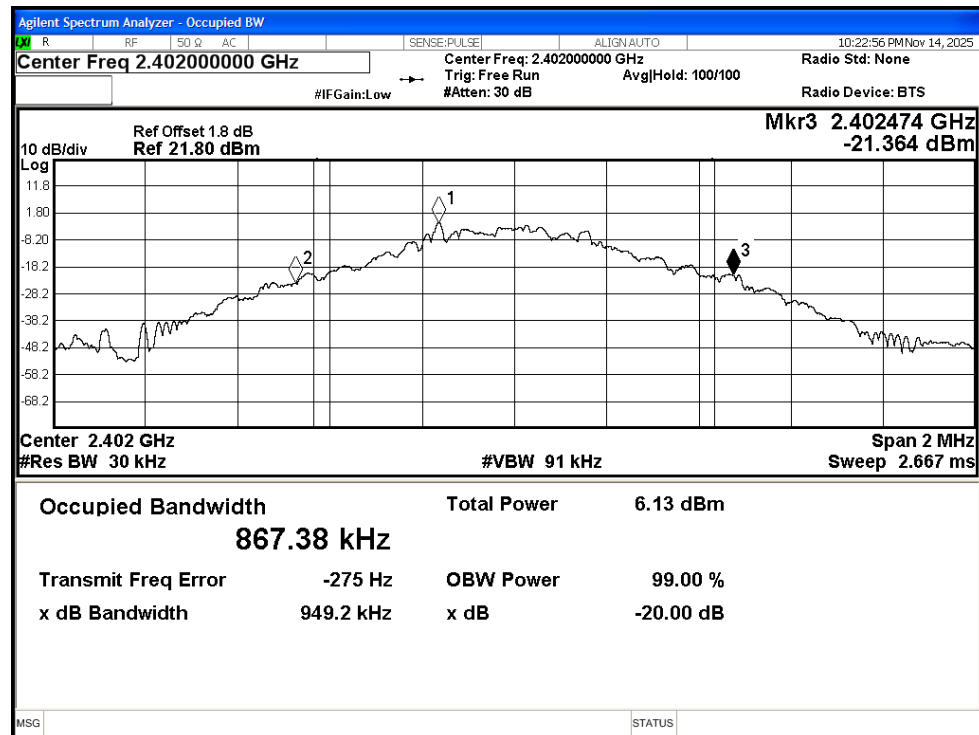
Environmental Conditions	
Temperature:	23.2°C
Relative Humidity:	54.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Suichao Lai
Supervised by:	Yan Chen

A.1 -20dB Bandwidth

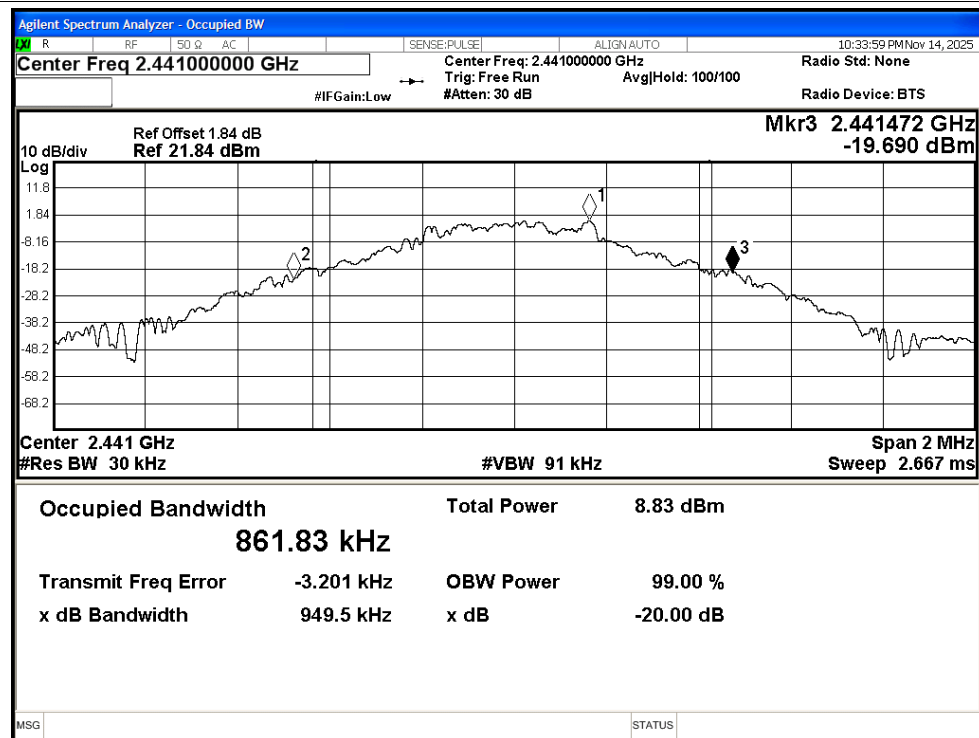
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.949	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.95	N/A	Pass
NVNT	1-DH5	2480	Ant1	1.01	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.33	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.285	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.329	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.291	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.305	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.291	N/A	Pass

Test Graphs

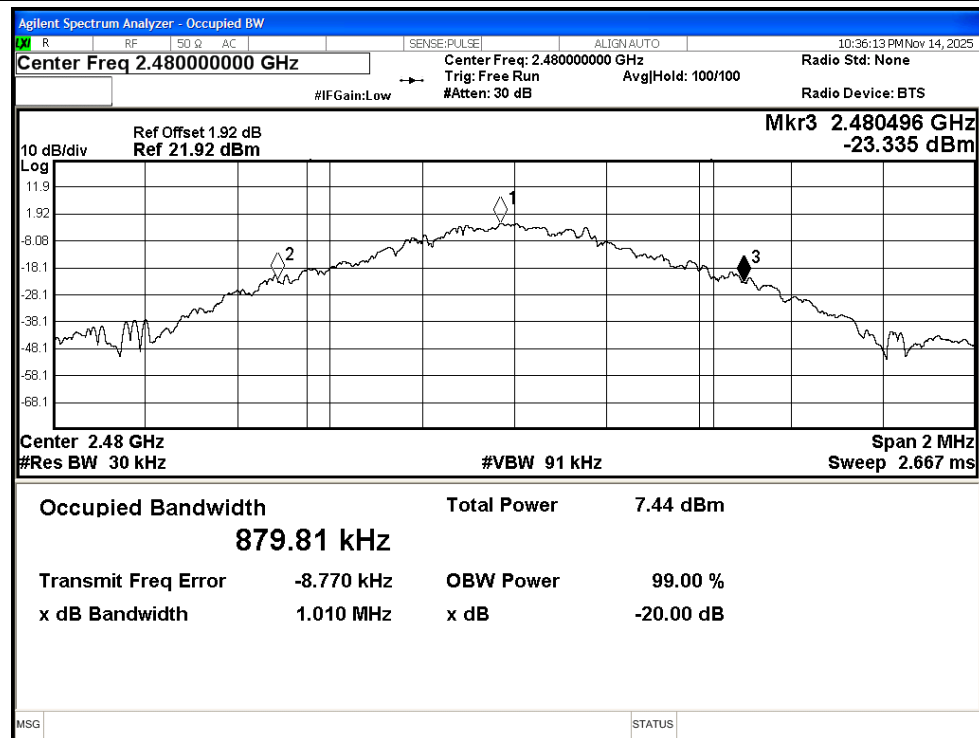
-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1



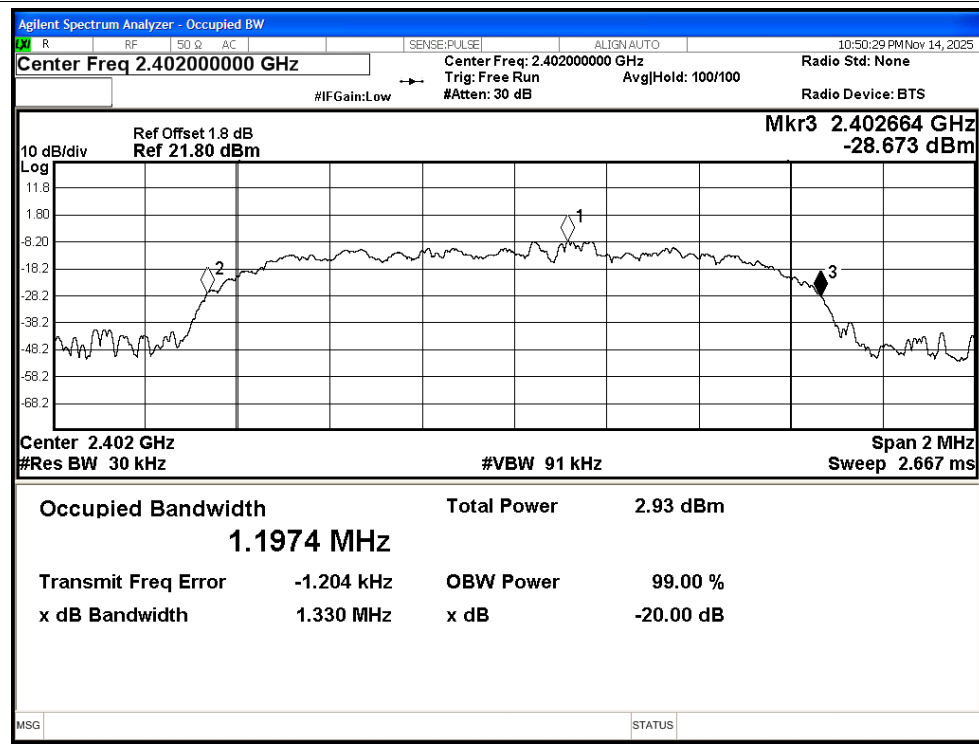
-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1



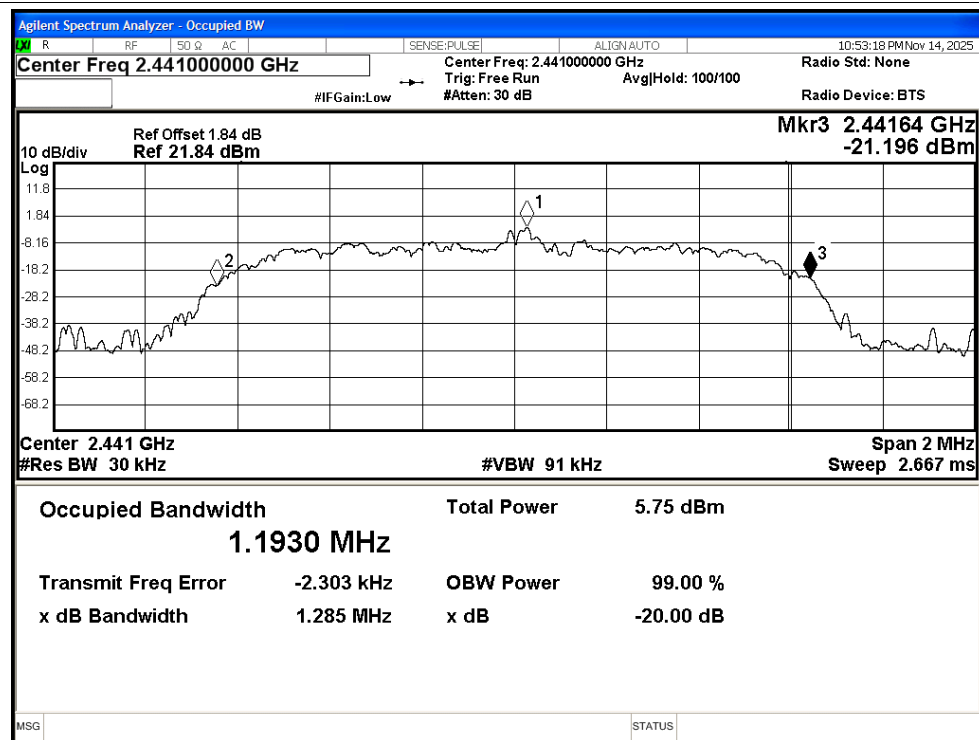
-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



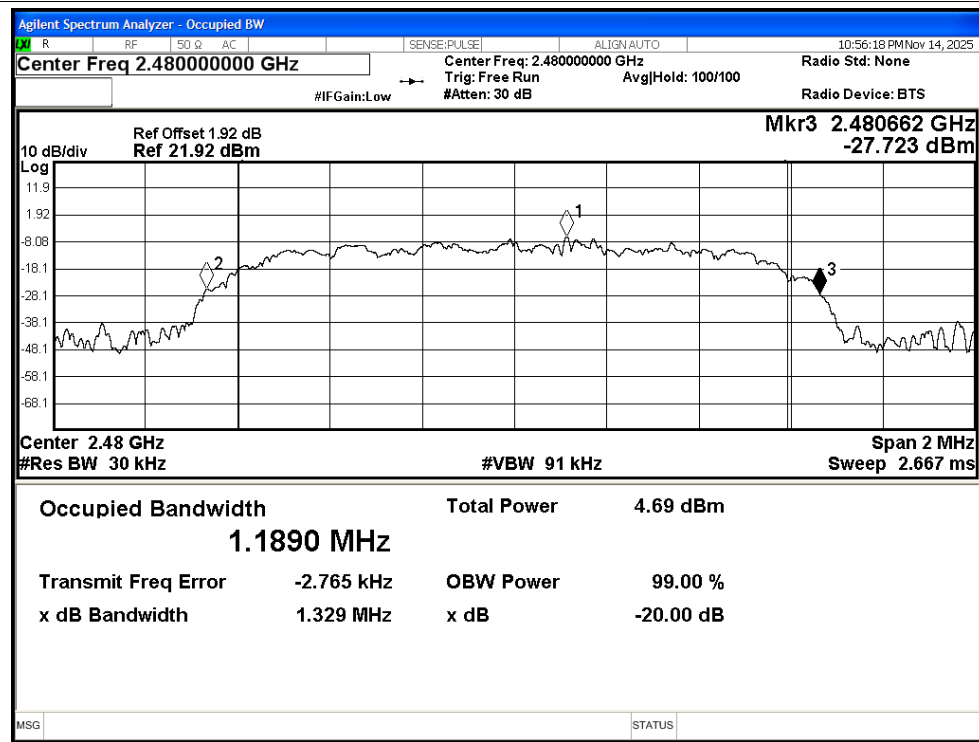
-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



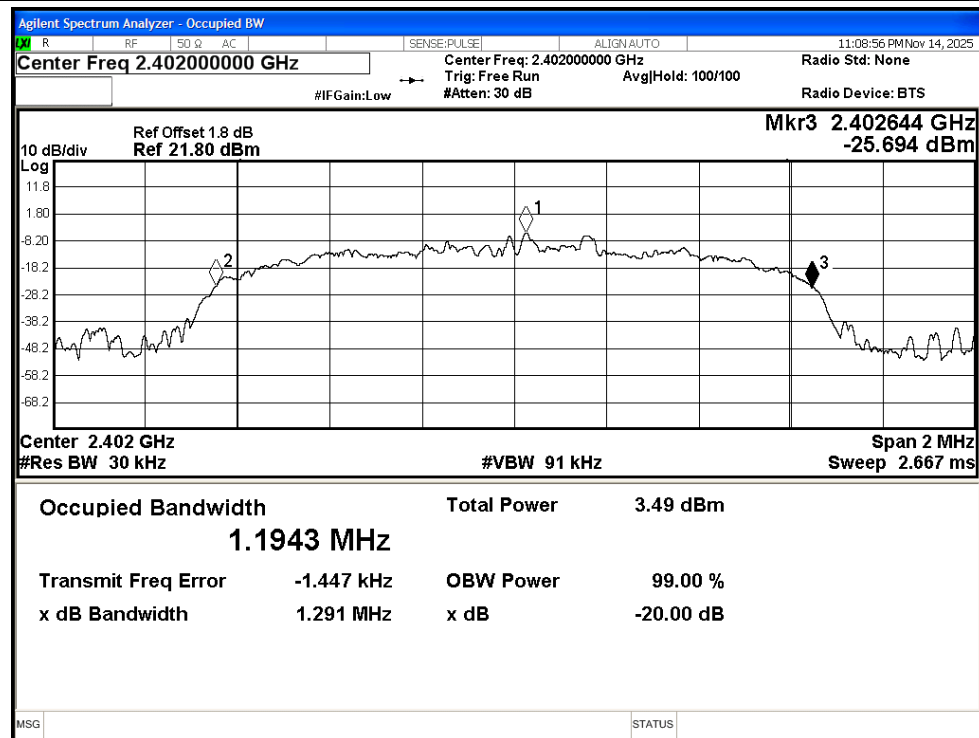
-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



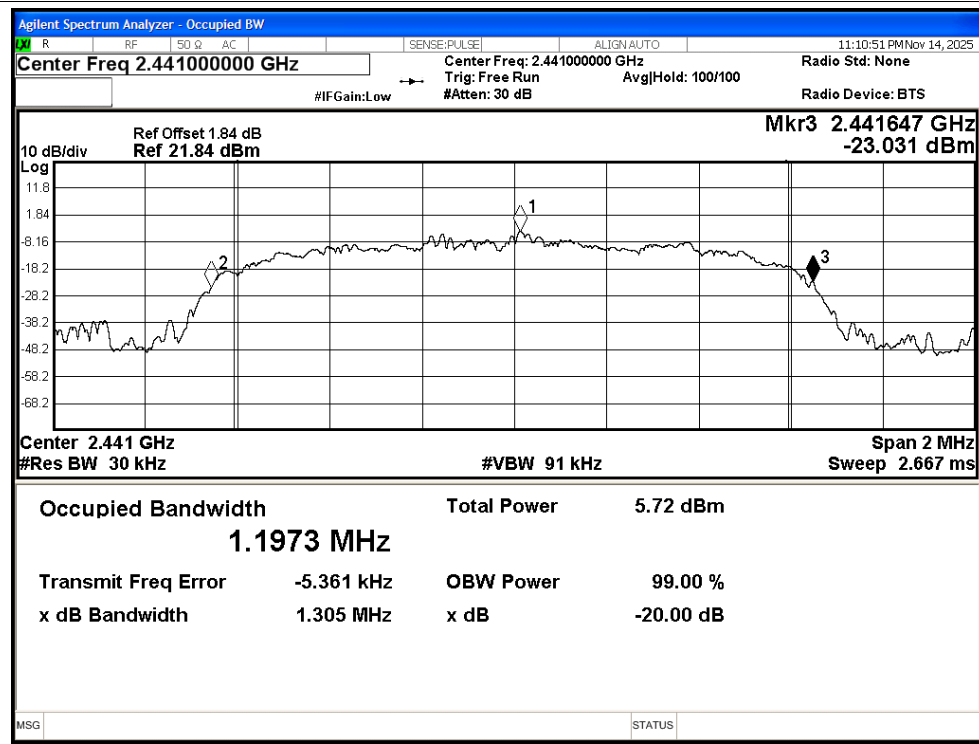
-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

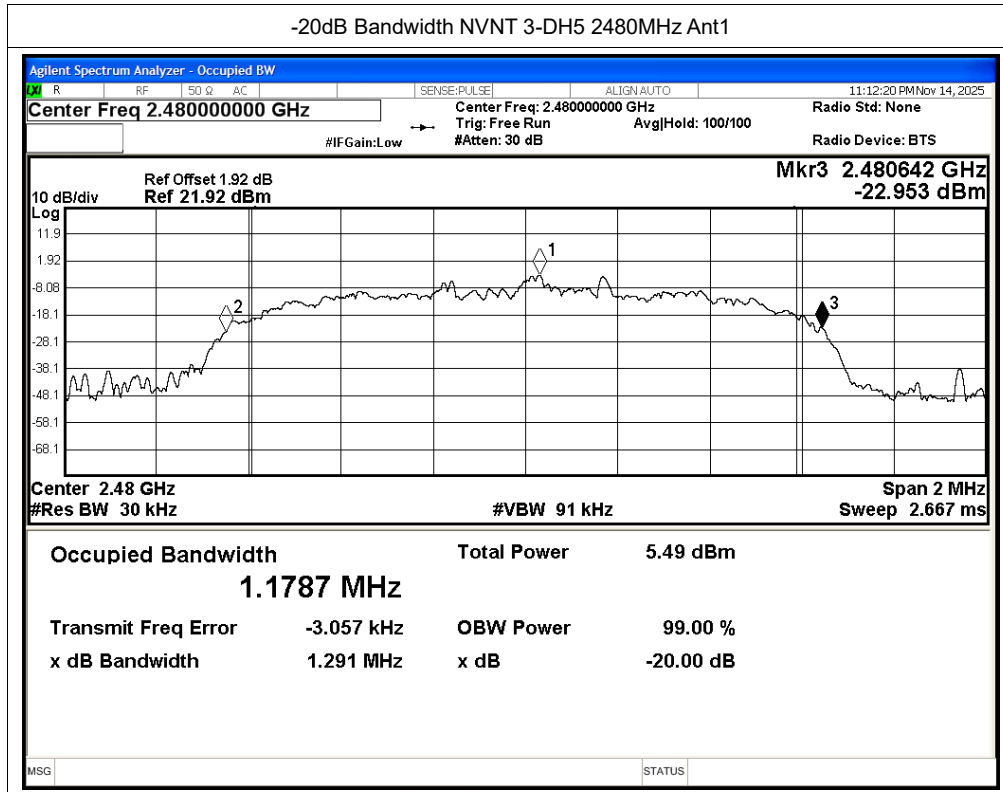


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1



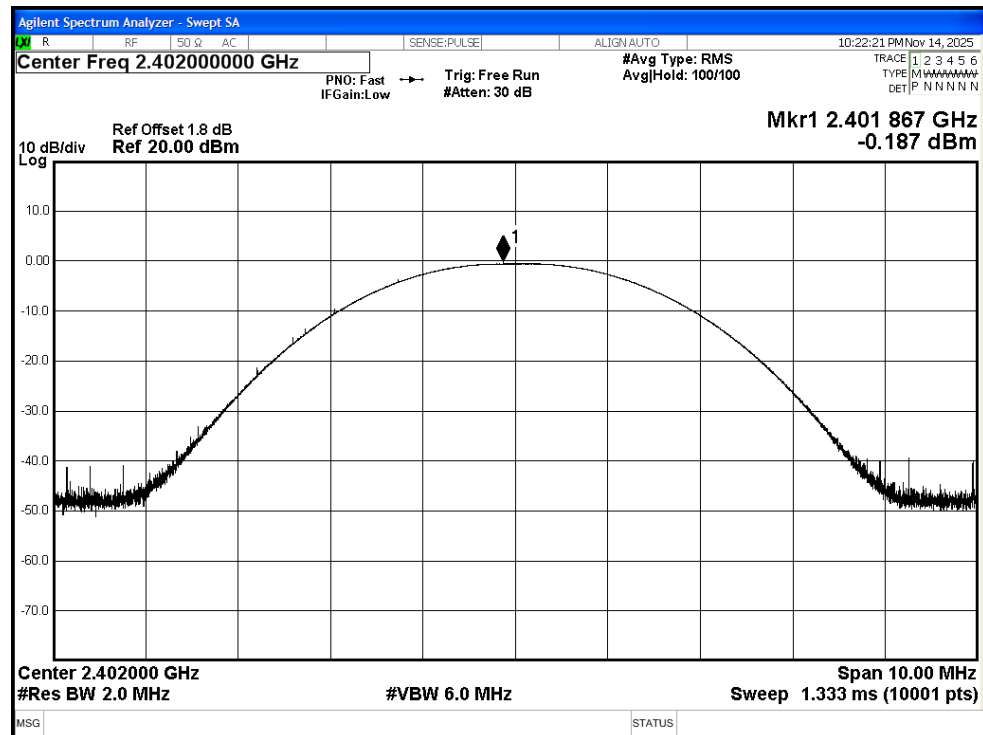


A.2 Maximum Peak Conducted Output Power

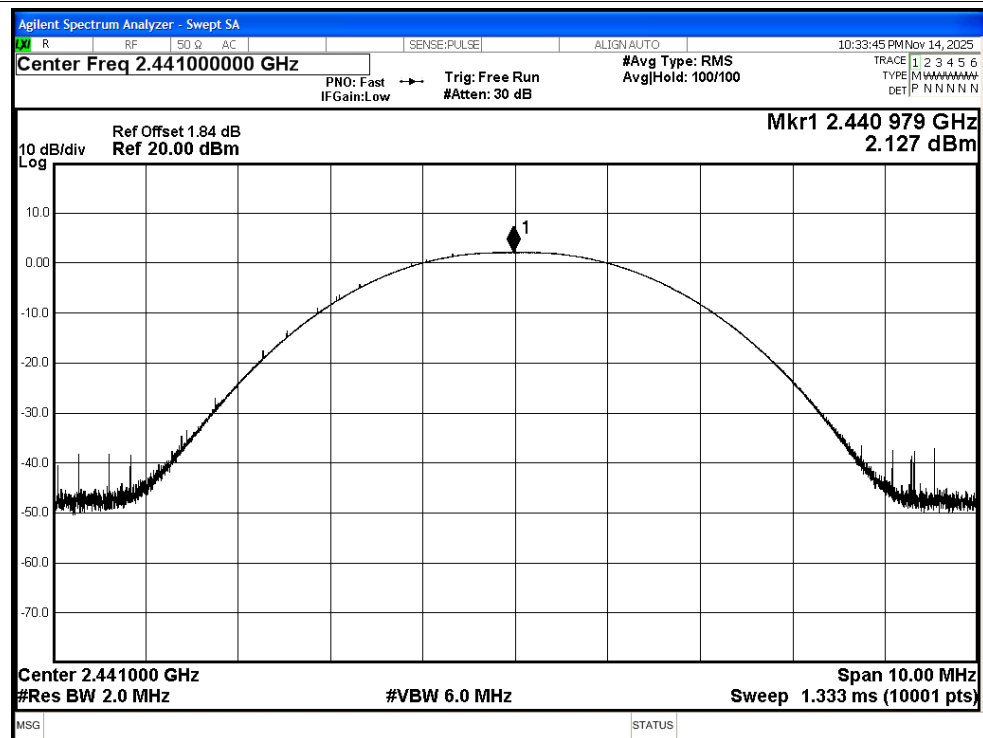
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-0.19	21	Pass
NVNT	1-DH5	2441	Ant1	2.13	21	Pass
NVNT	1-DH5	2480	Ant1	1.64	21	Pass
NVNT	2-DH5	2402	Ant1	-0.88	21	Pass
NVNT	2-DH5	2441	Ant1	1.83	21	Pass
NVNT	2-DH5	2480	Ant1	1.01	21	Pass
NVNT	3-DH5	2402	Ant1	-0.4	21	Pass
NVNT	3-DH5	2441	Ant1	1.89	21	Pass
NVNT	3-DH5	2480	Ant1	1.37	21	Pass

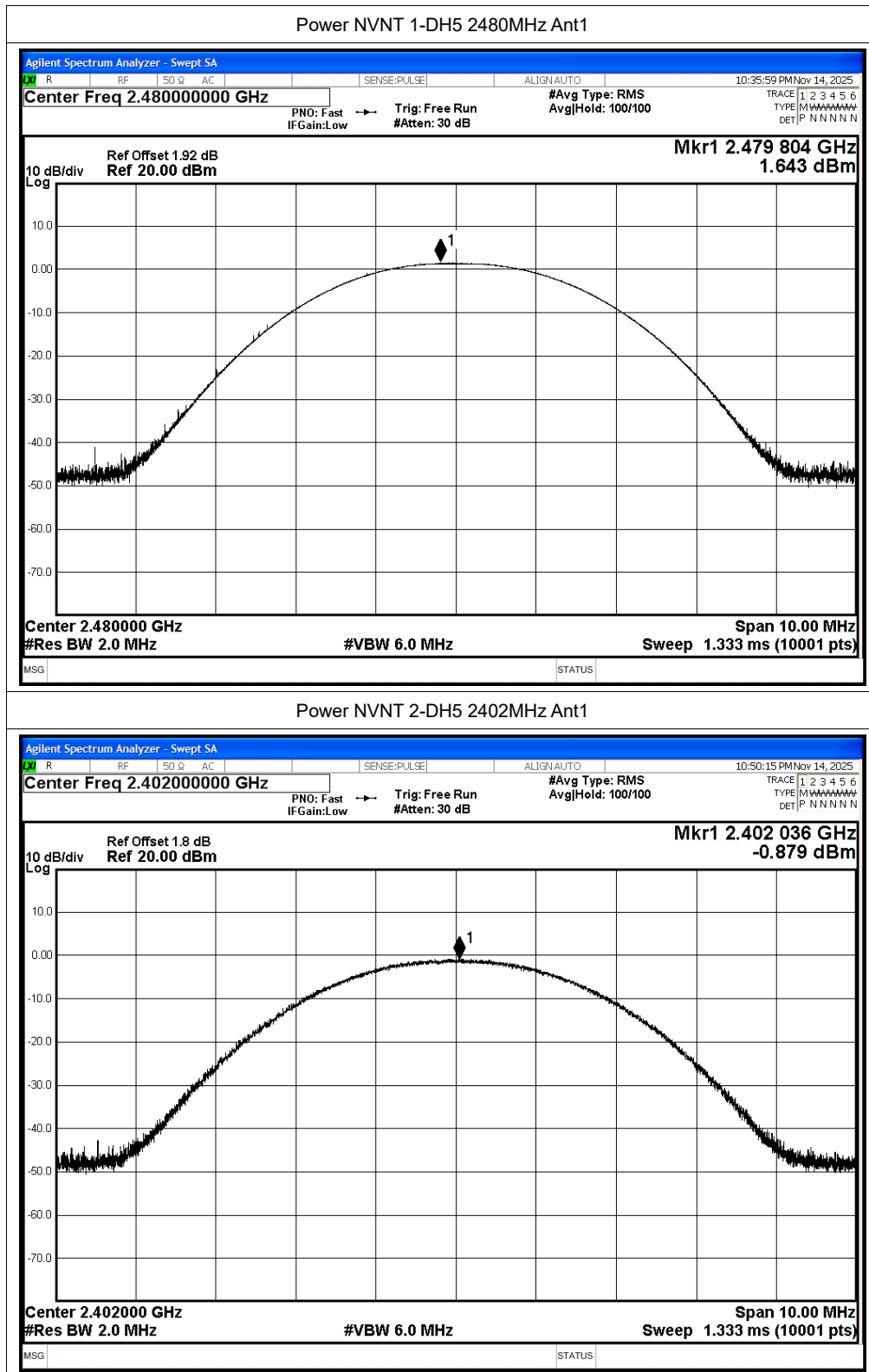
Test Graphs

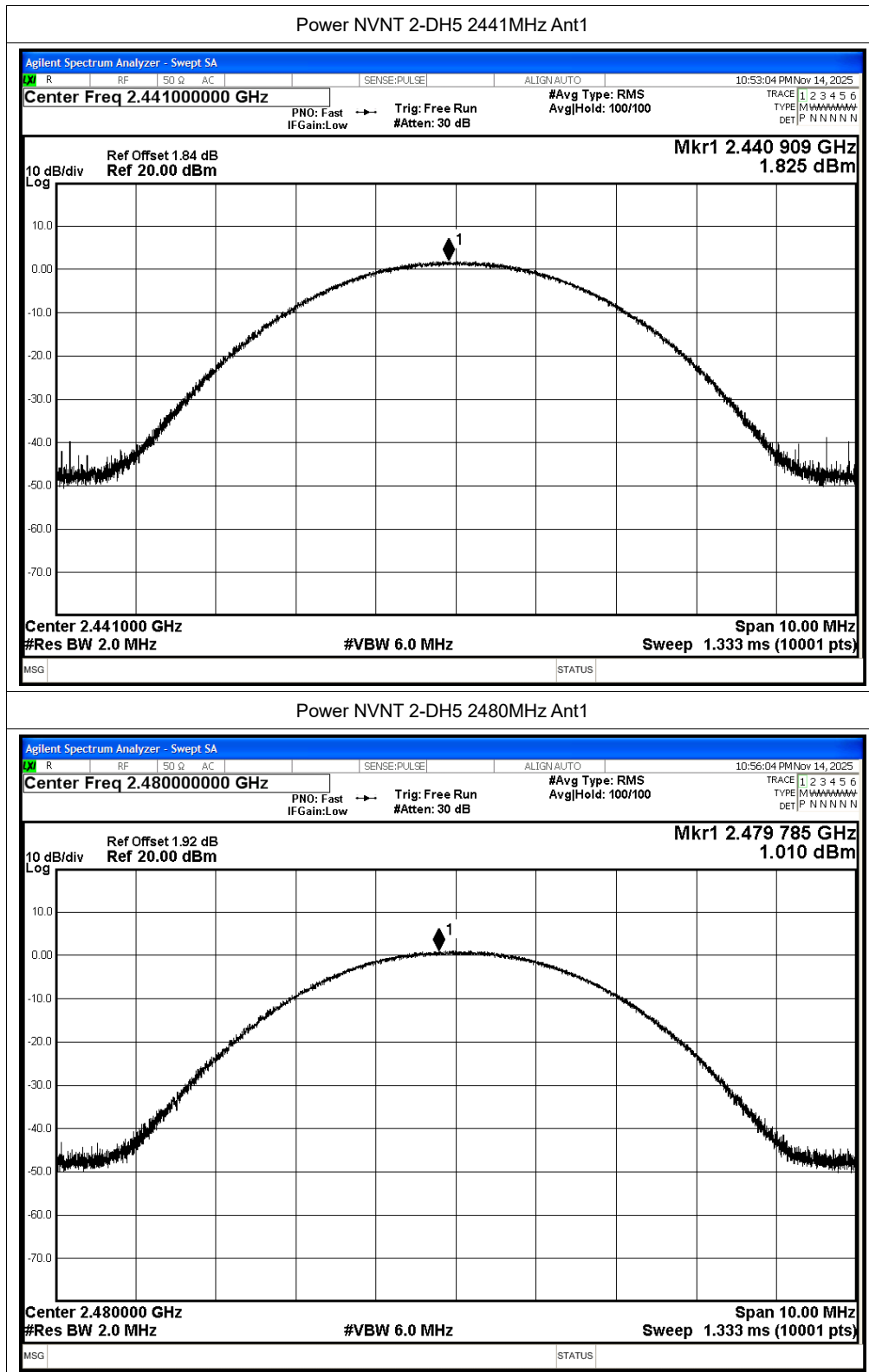
Power NVNT 1-DH5 2402MHz Ant1

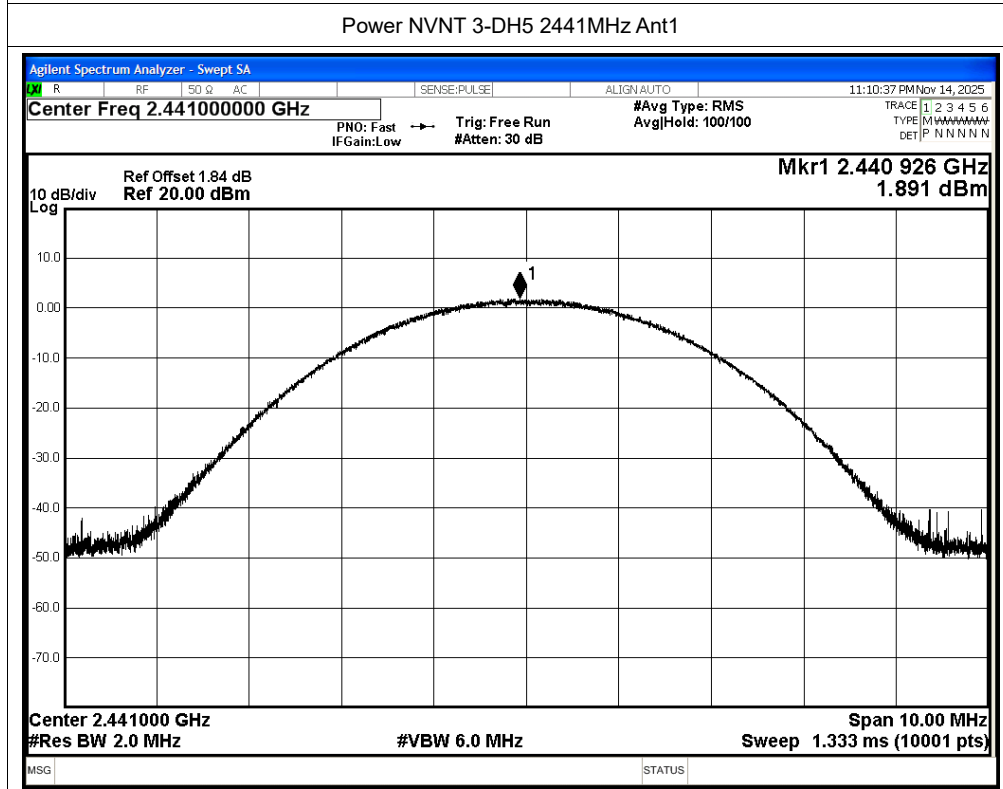
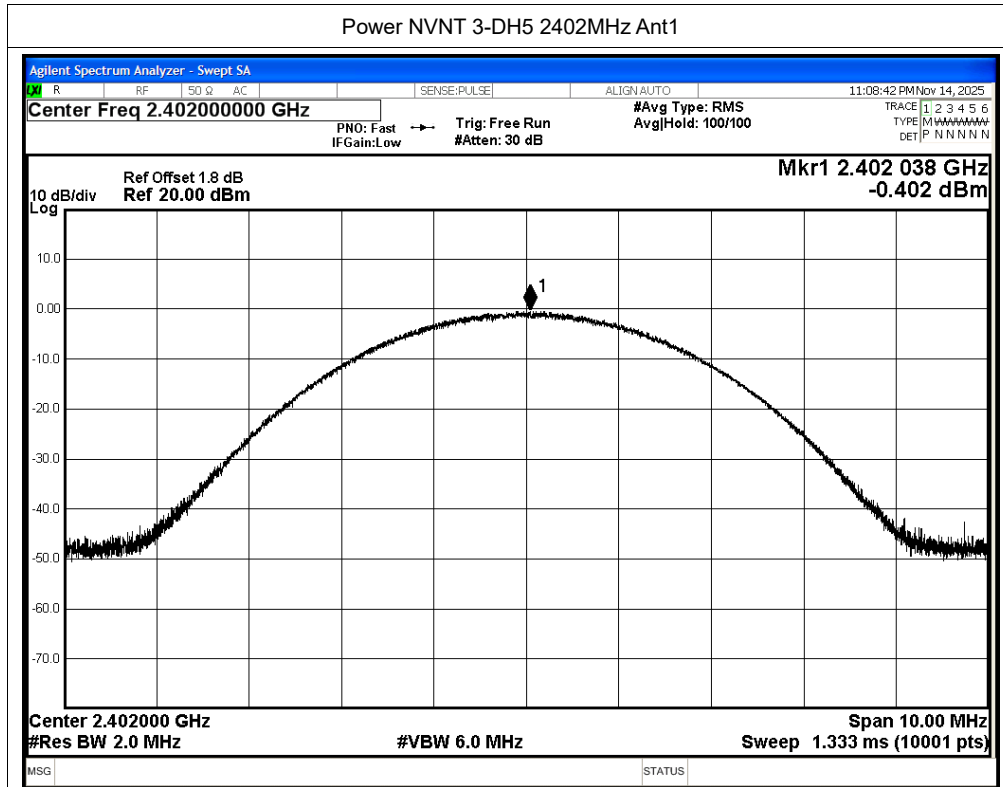


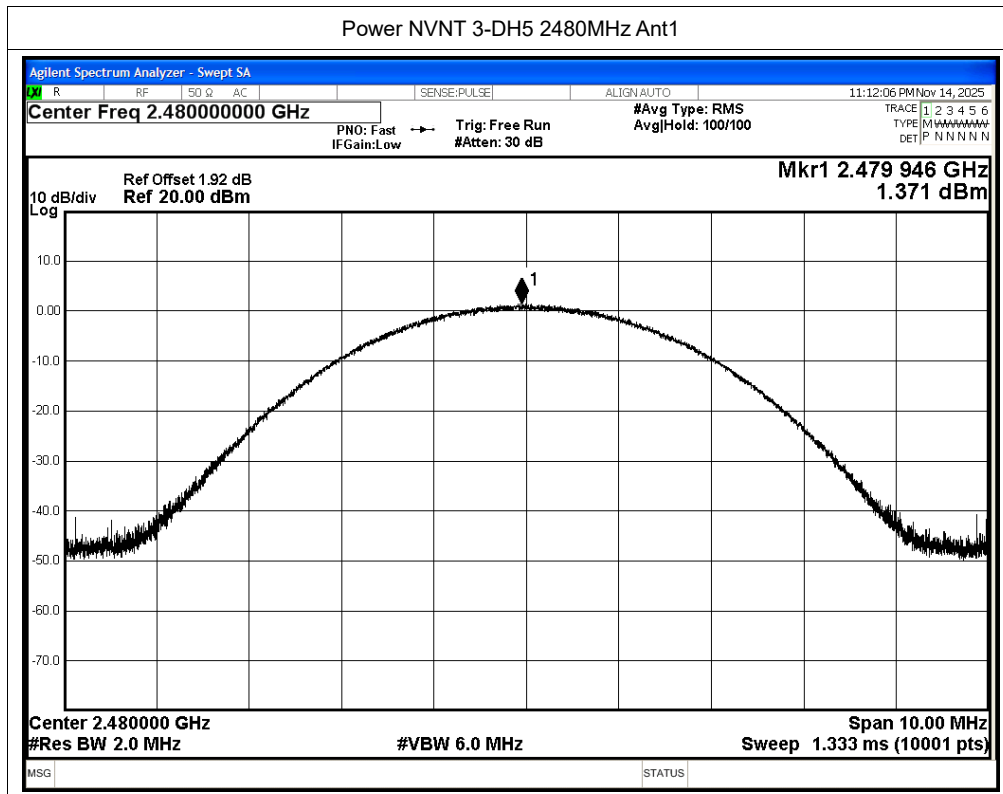
Power NVNT 1-DH5 2441MHz Ant1









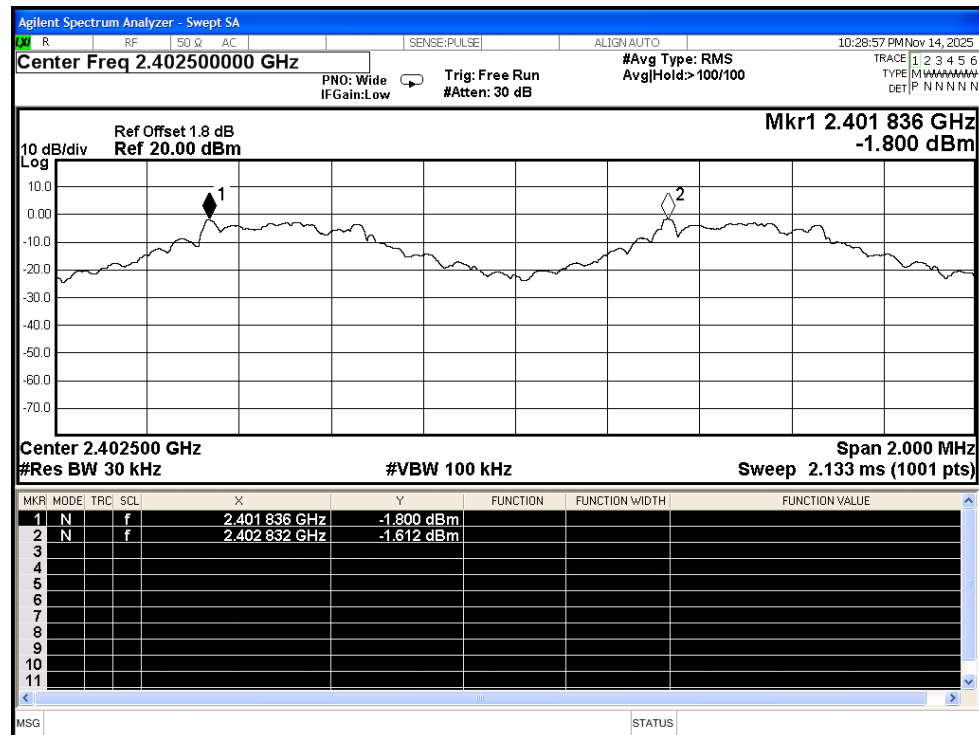


A.3 Carrier Frequencies Separation

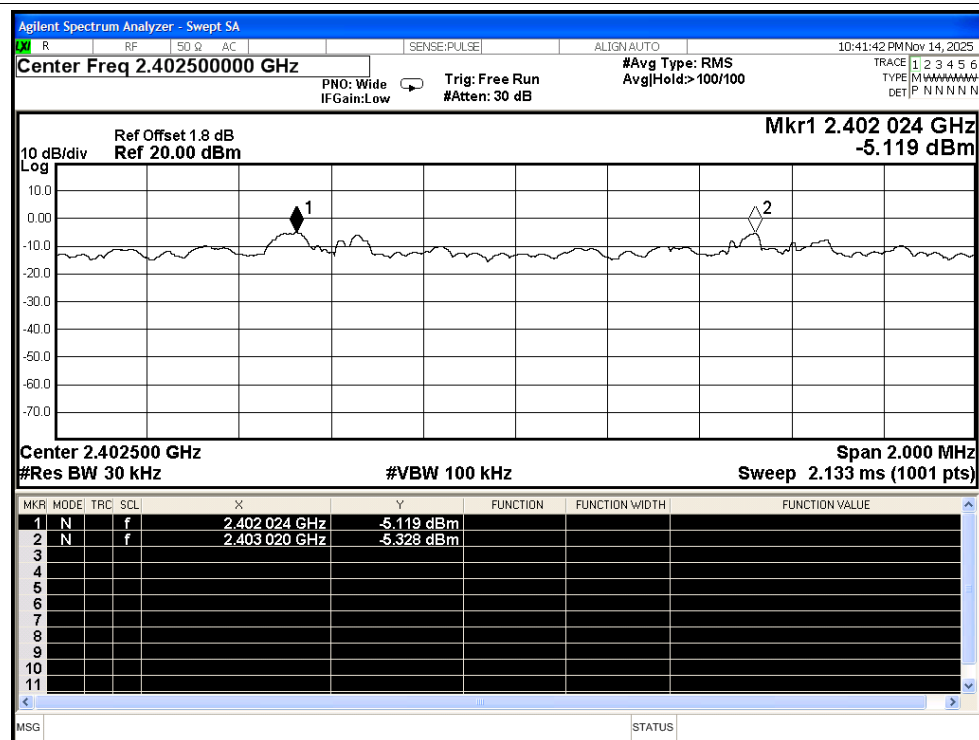
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.836	2402.832	0.996	0.673	Pass
NVNT	2-DH5	Ant1	2402.024	2403.02	0.996	0.887	Pass
NVNT	3-DH5	Ant1	2402.032	2403.028	0.996	0.870	Pass

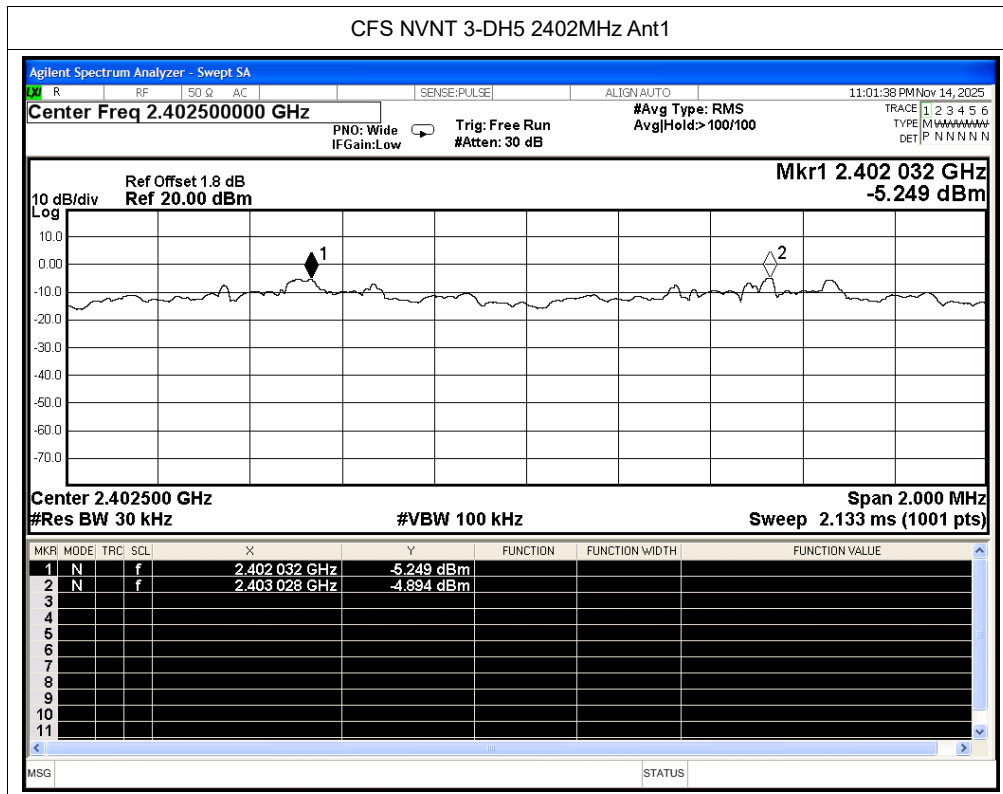
Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1



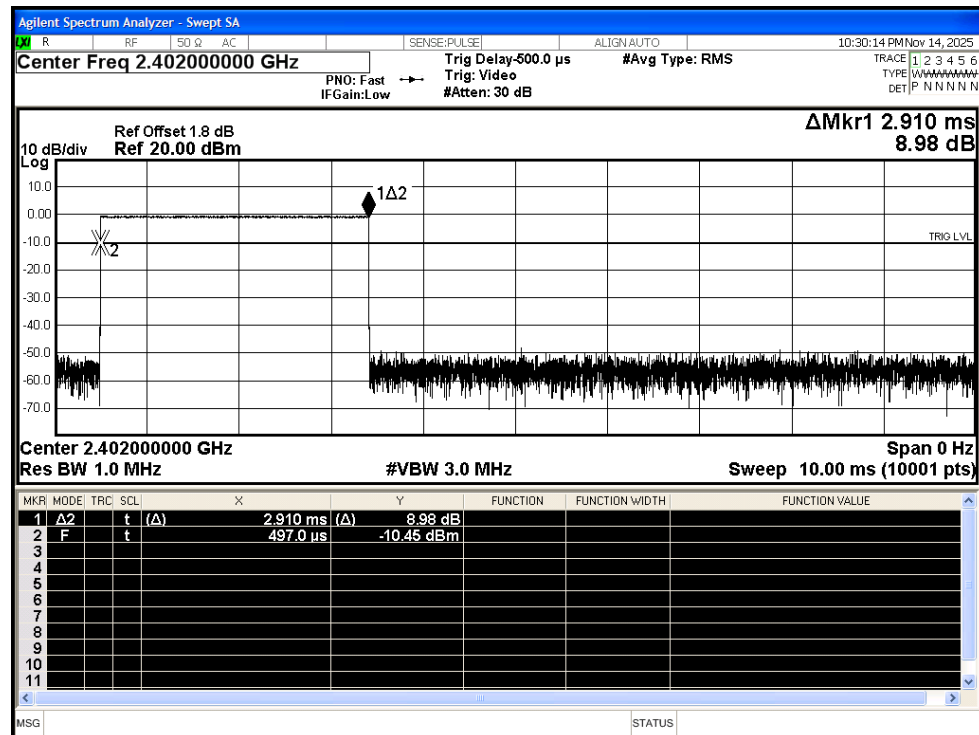


A.4 Dwell Time

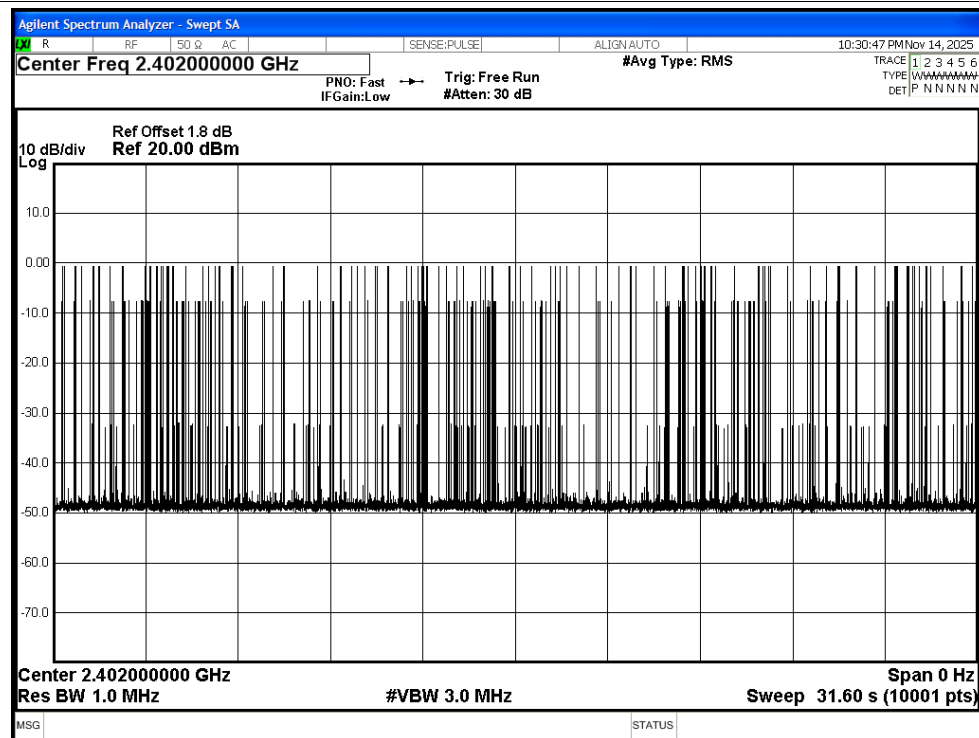
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.91	325.92	112	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.898	286.902	99	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.897	295.494	102	31600	400	Pass

Test Graphs

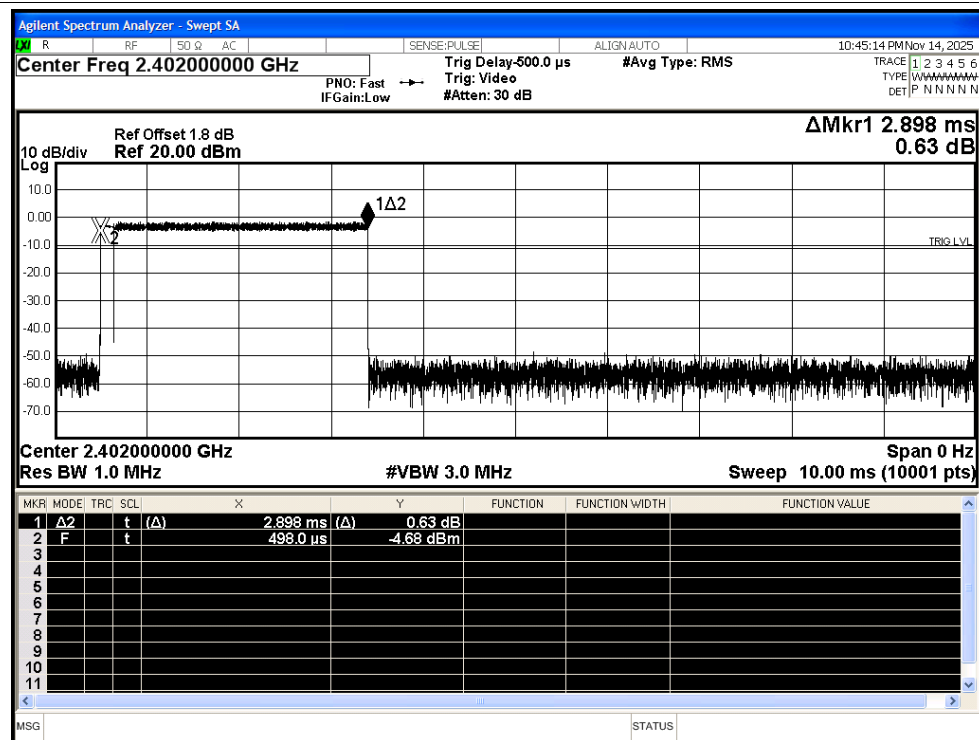
Dwell NVNT 1-DH5 2402MHz Ant1 One Burst



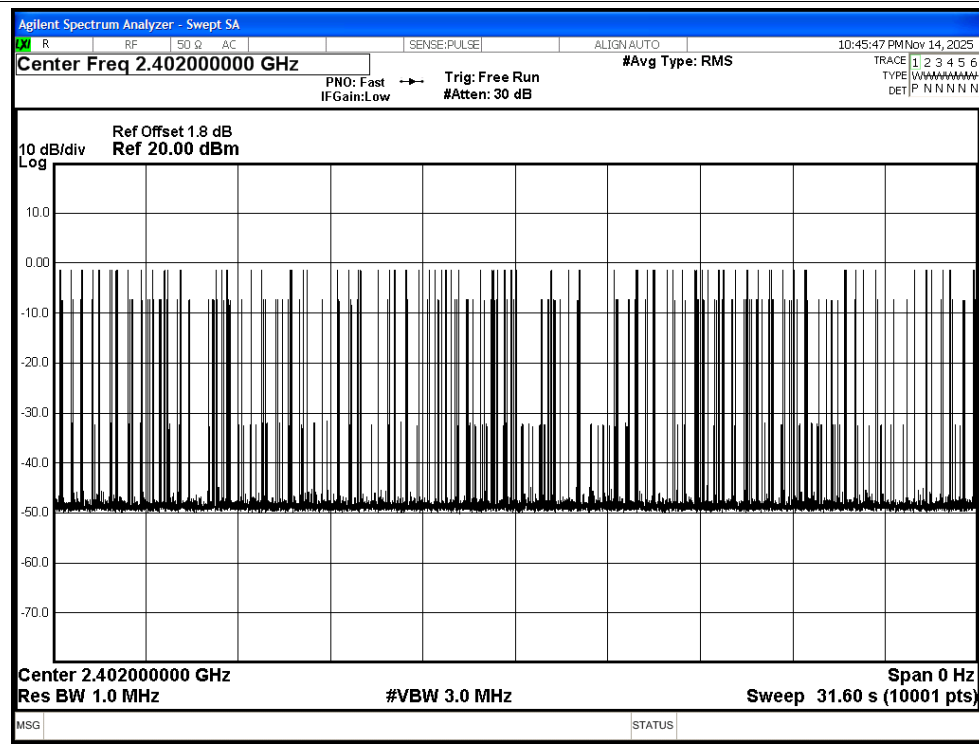
Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated



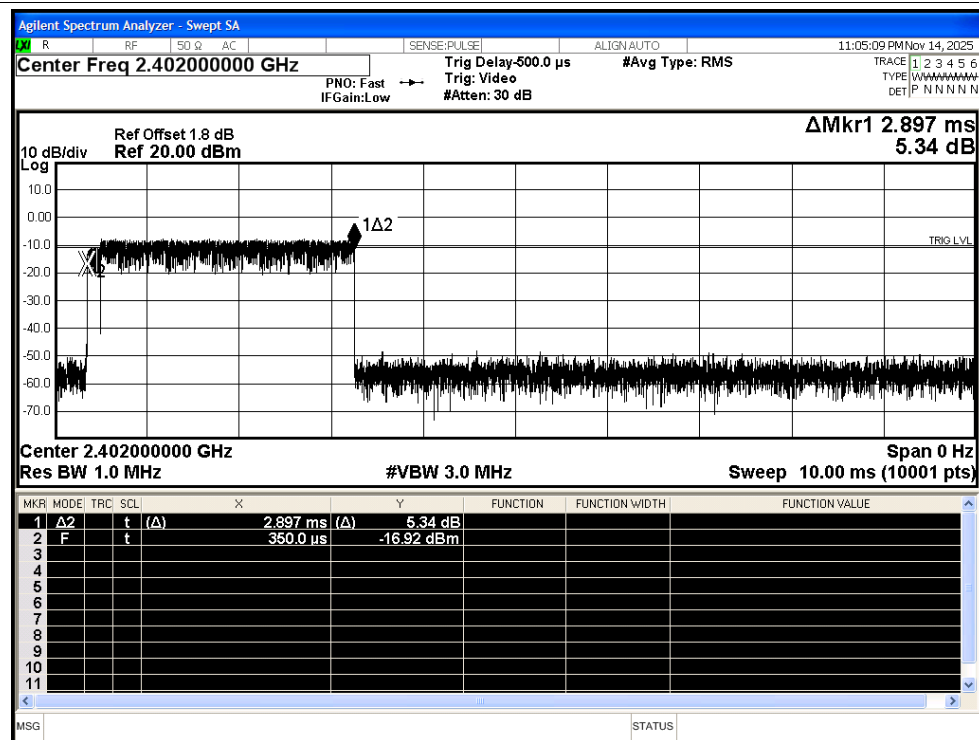
Dwell NVNT 2-DH5 2402MHz Ant1 One Burst



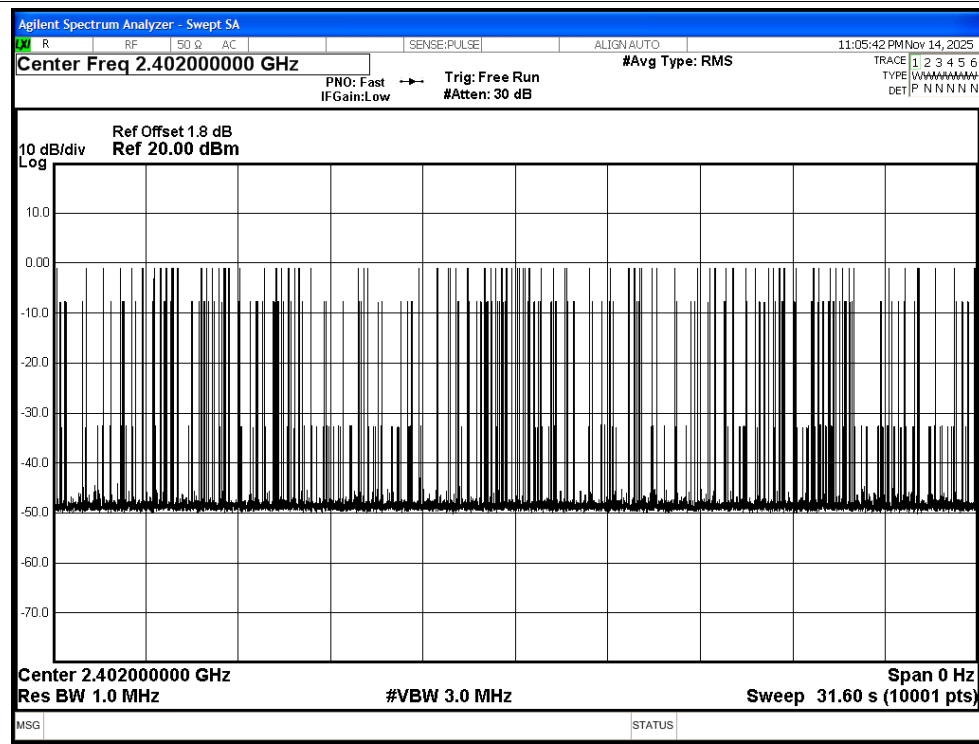
Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



Dwell NVNT 3-DH5 2402MHz Ant1 One Burst



Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated

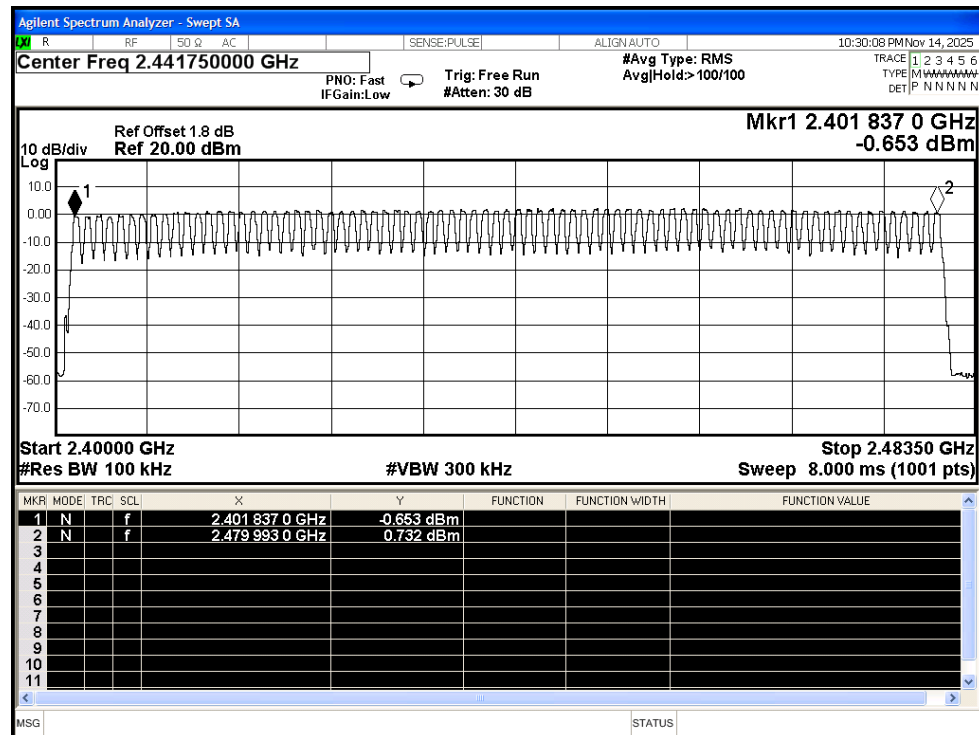


A.5 Number of Hopping Channel

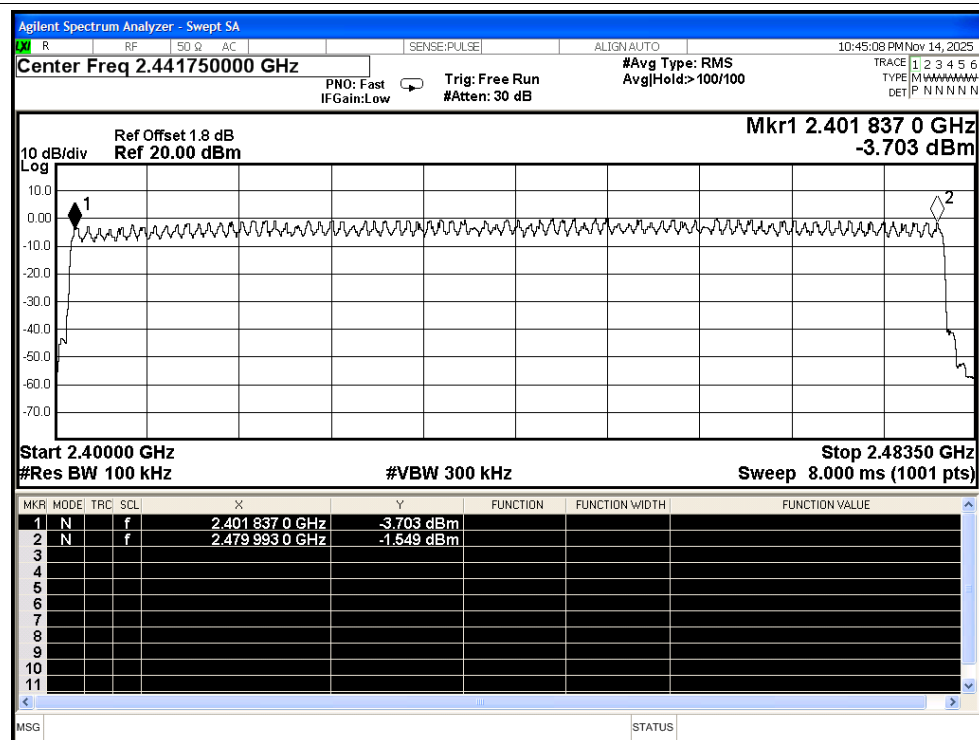
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass

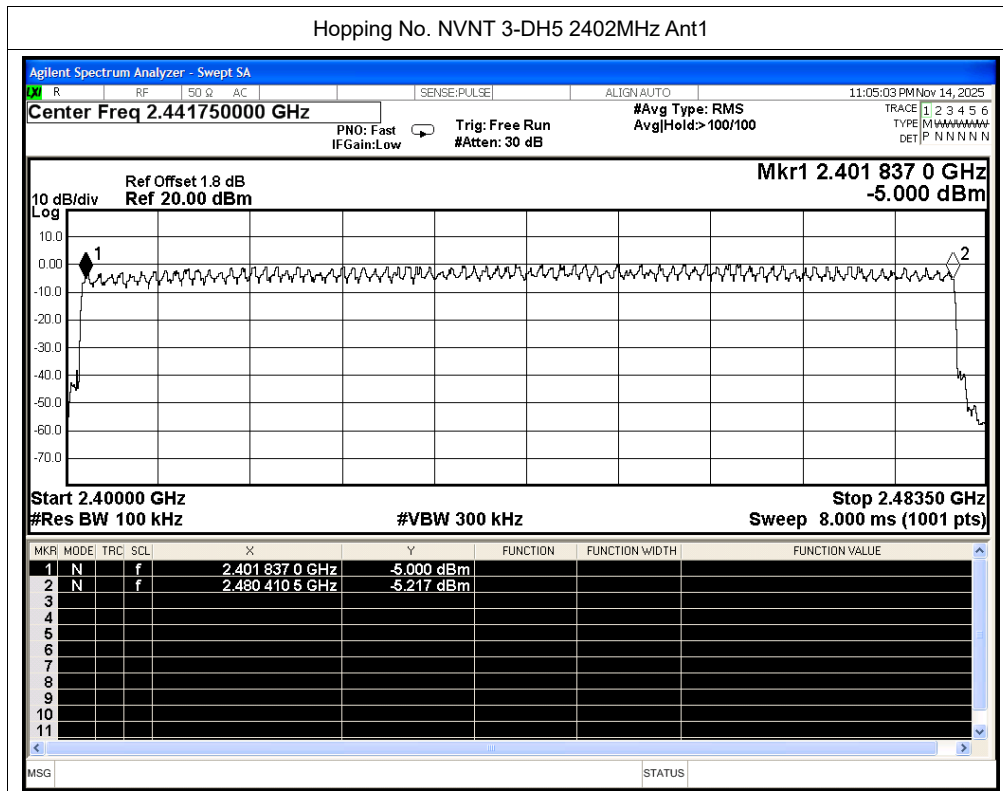
Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1



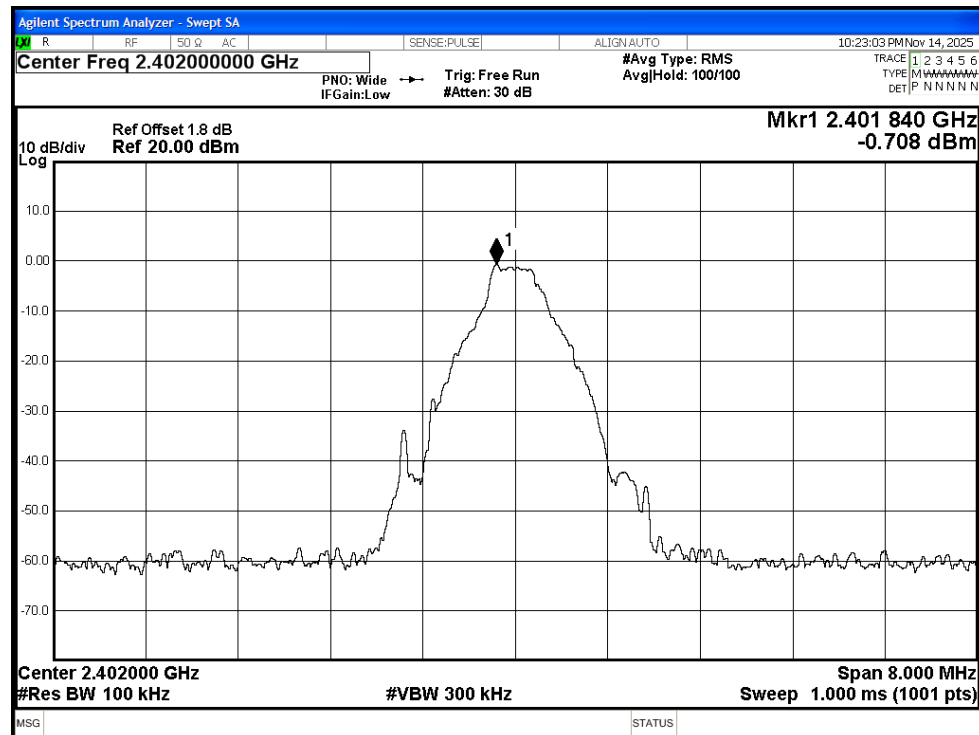


A.6 Band Edge

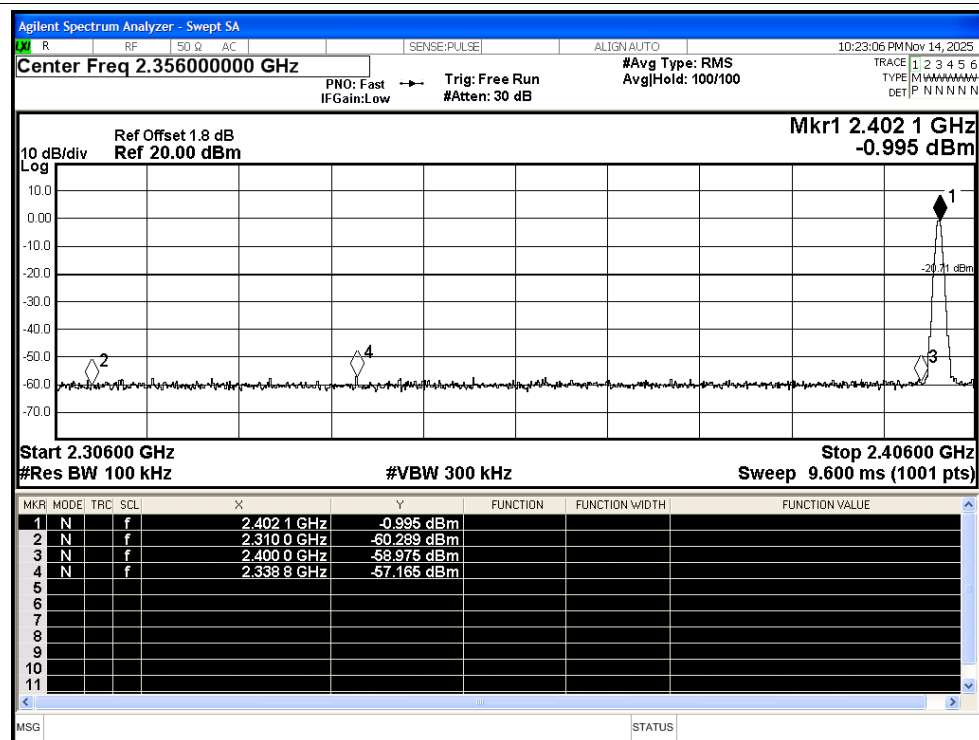
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-56.46	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-57.94	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-51.27	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-55.32	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-50.64	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-55.14	-20	Pass

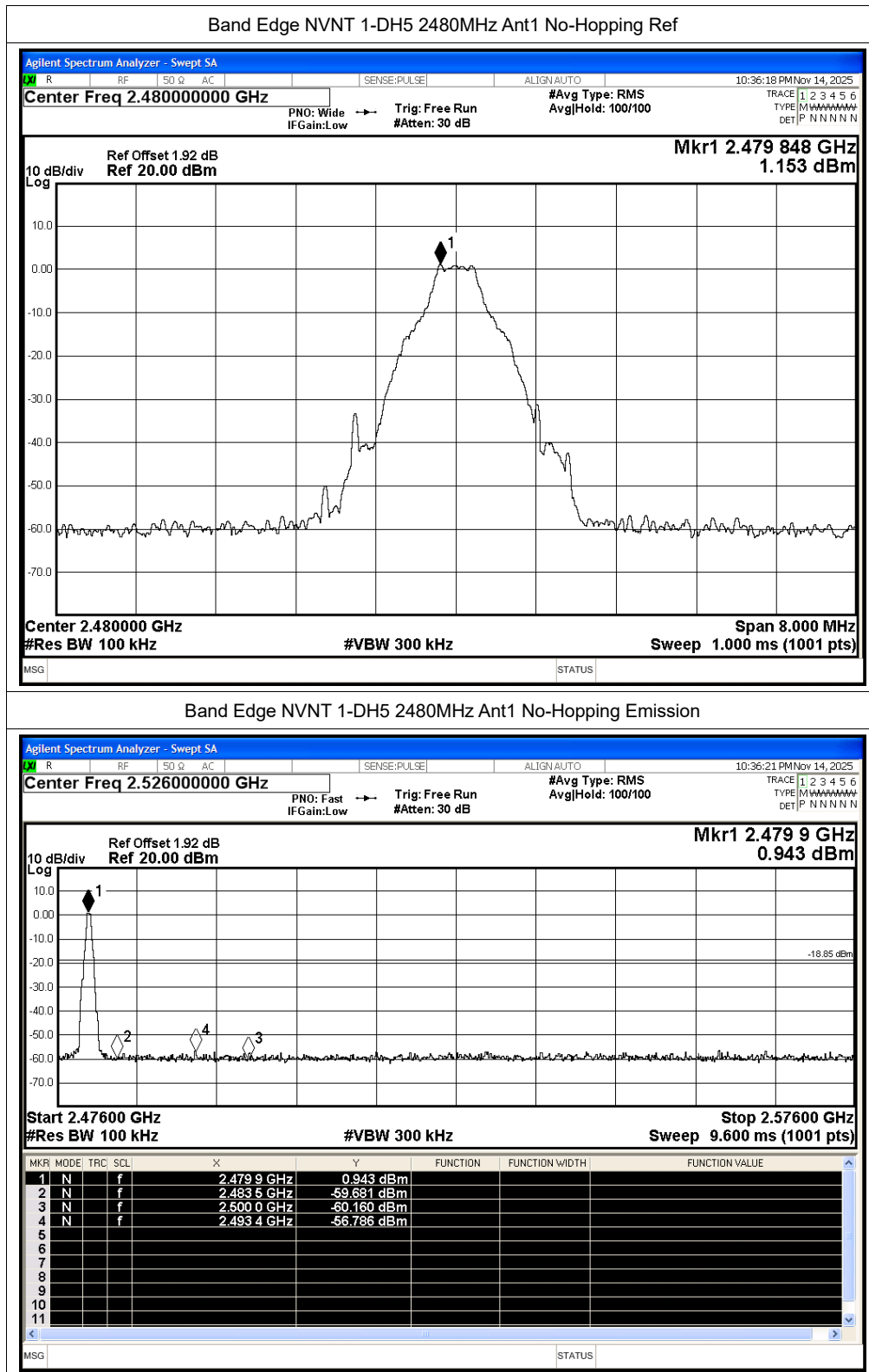
Test Graphs

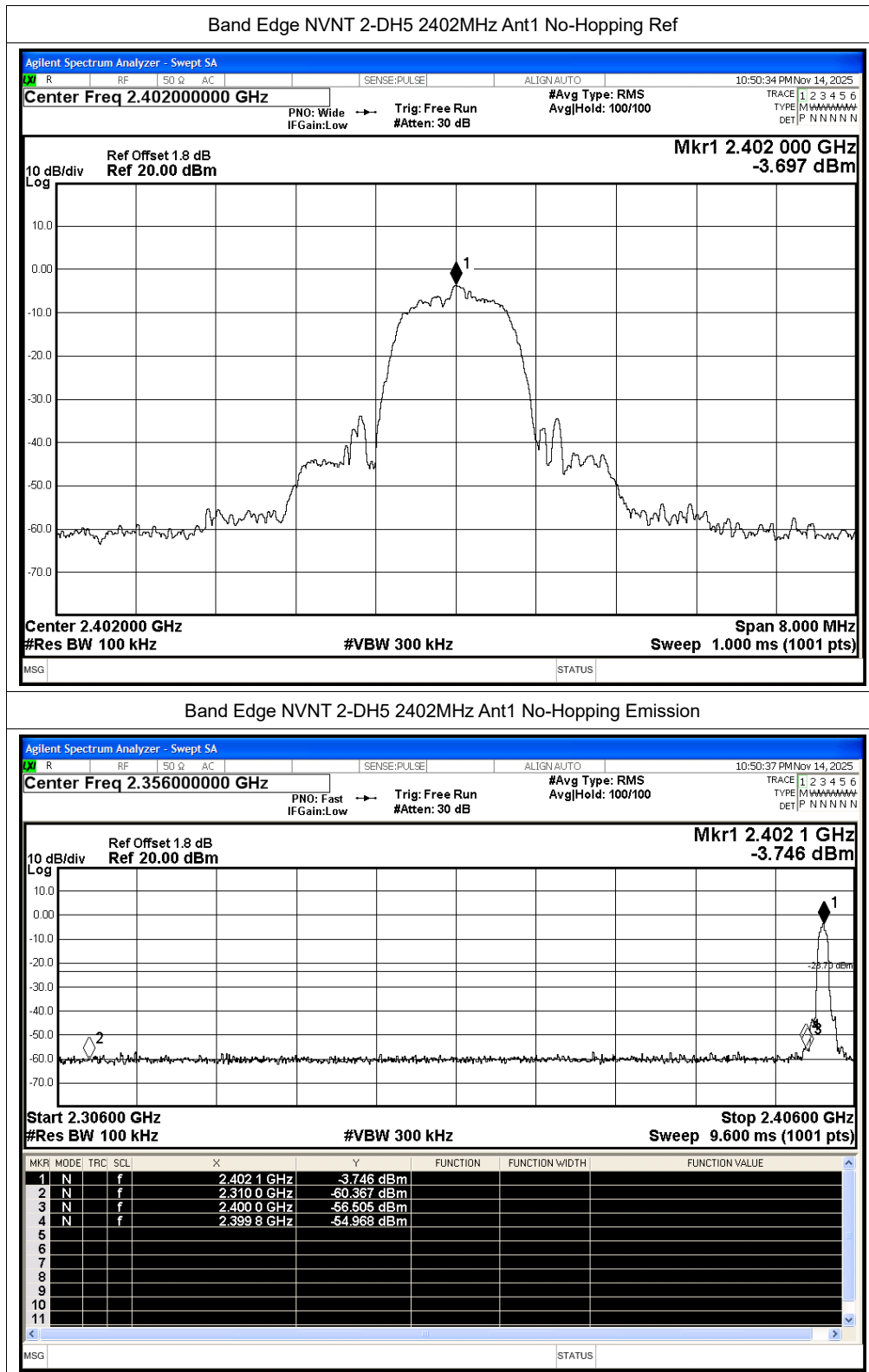
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Ref



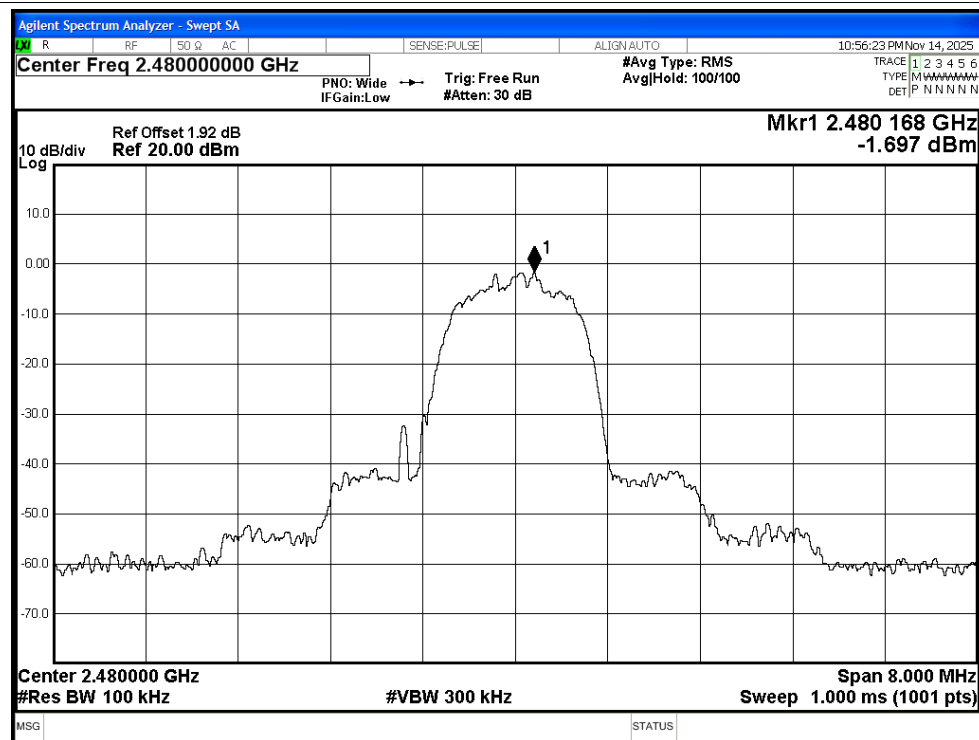
Band Edge NVNT 1-DH5 2402MHz Ant1 No-Hopping Emission



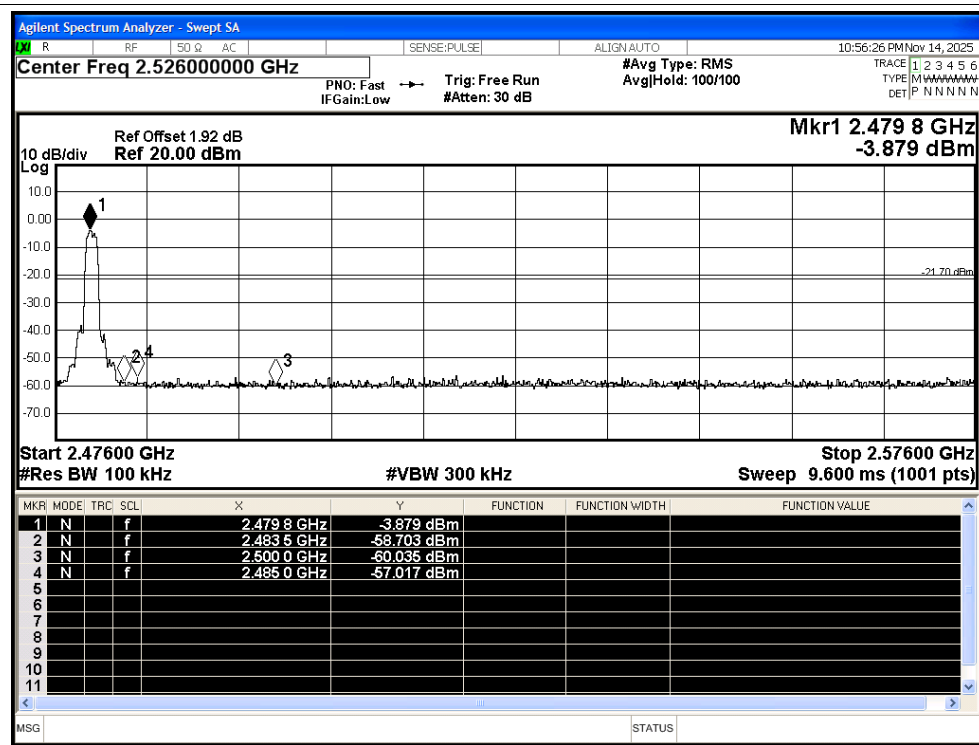


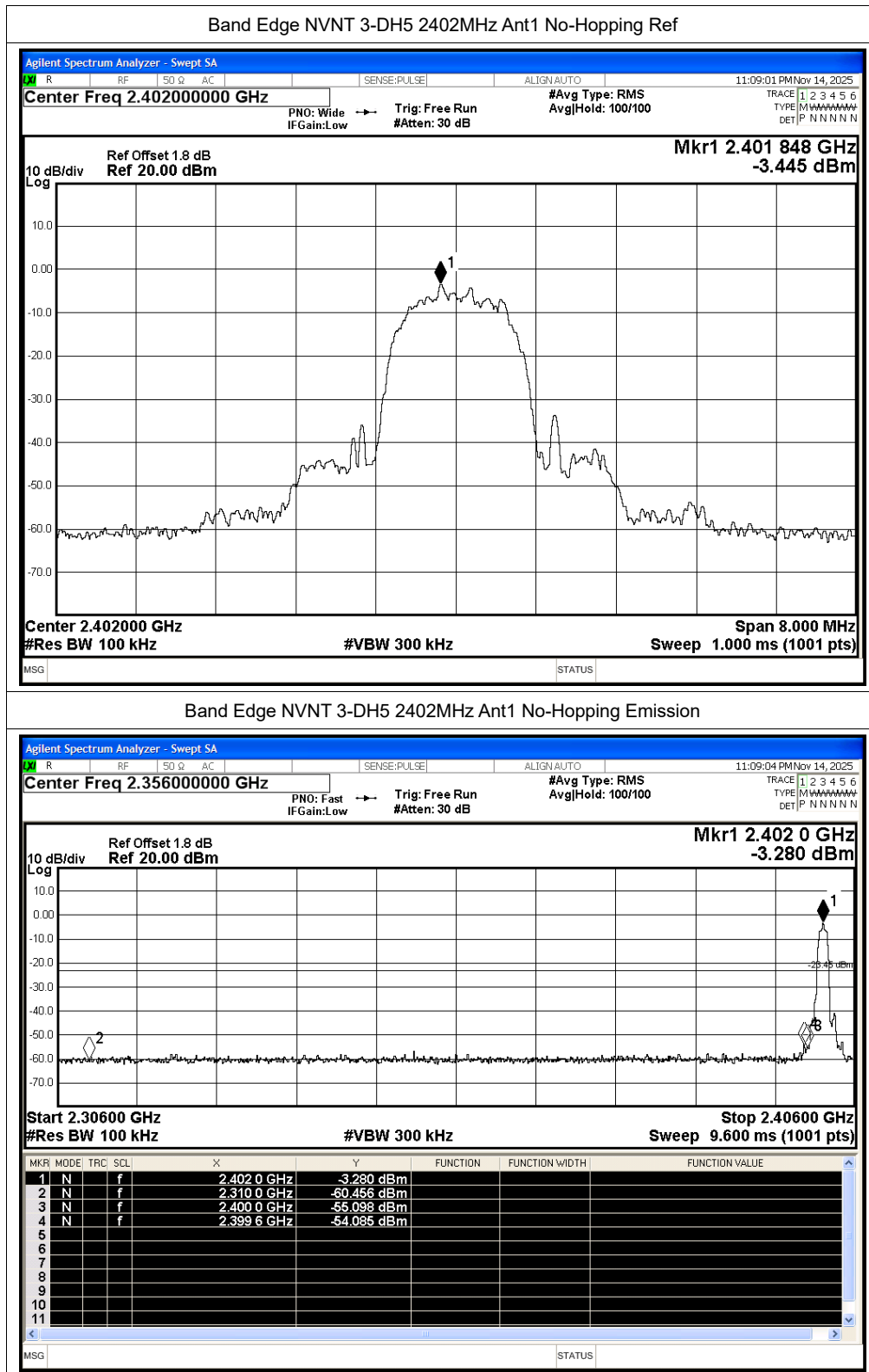


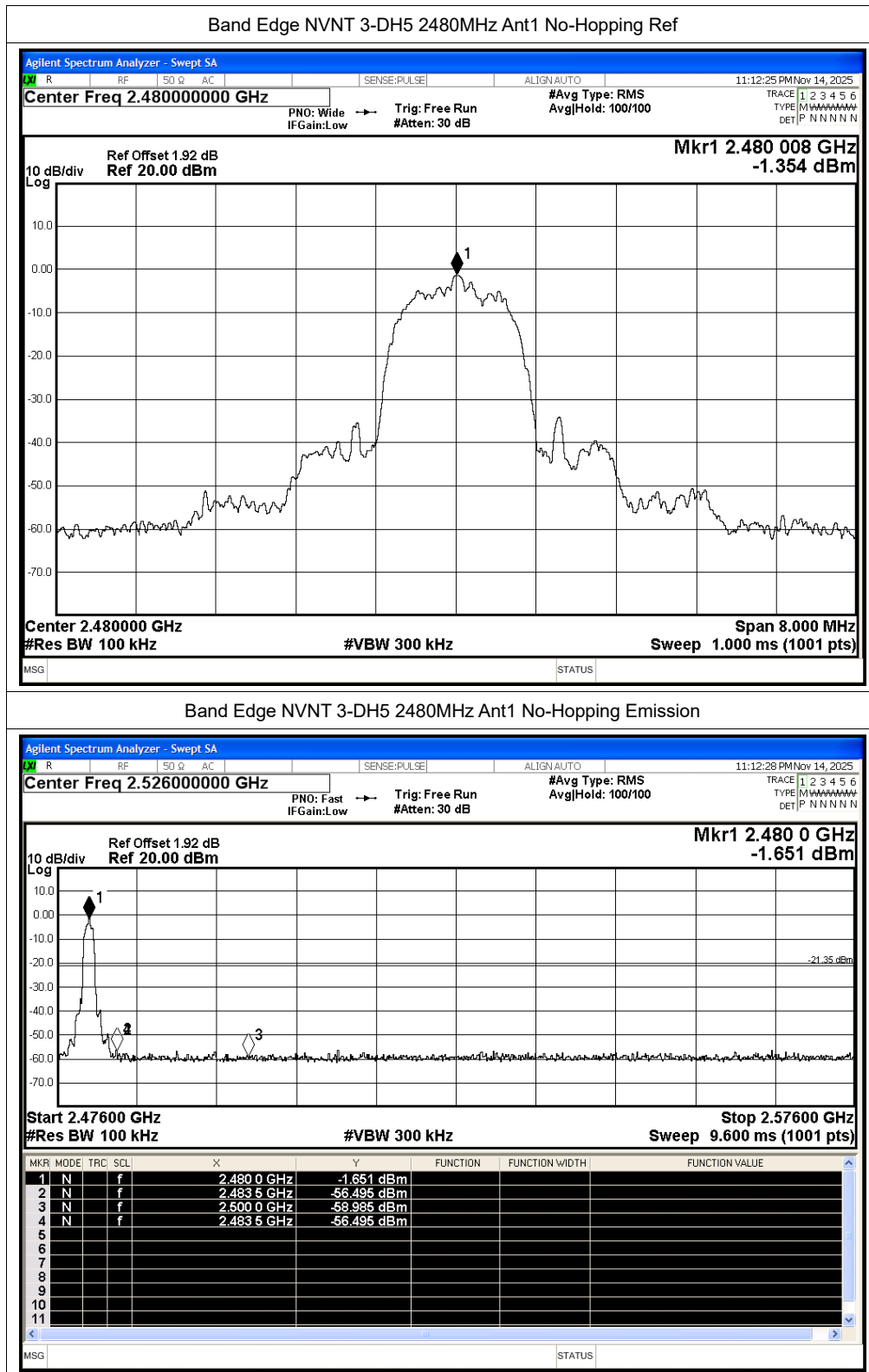
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref



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





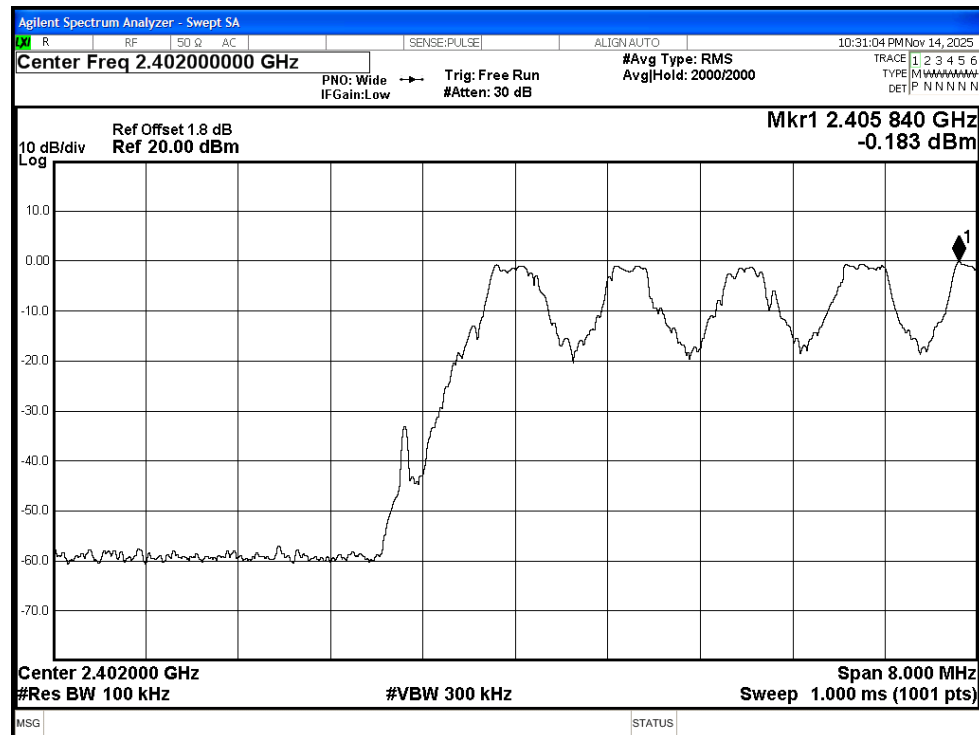


(Hopping)

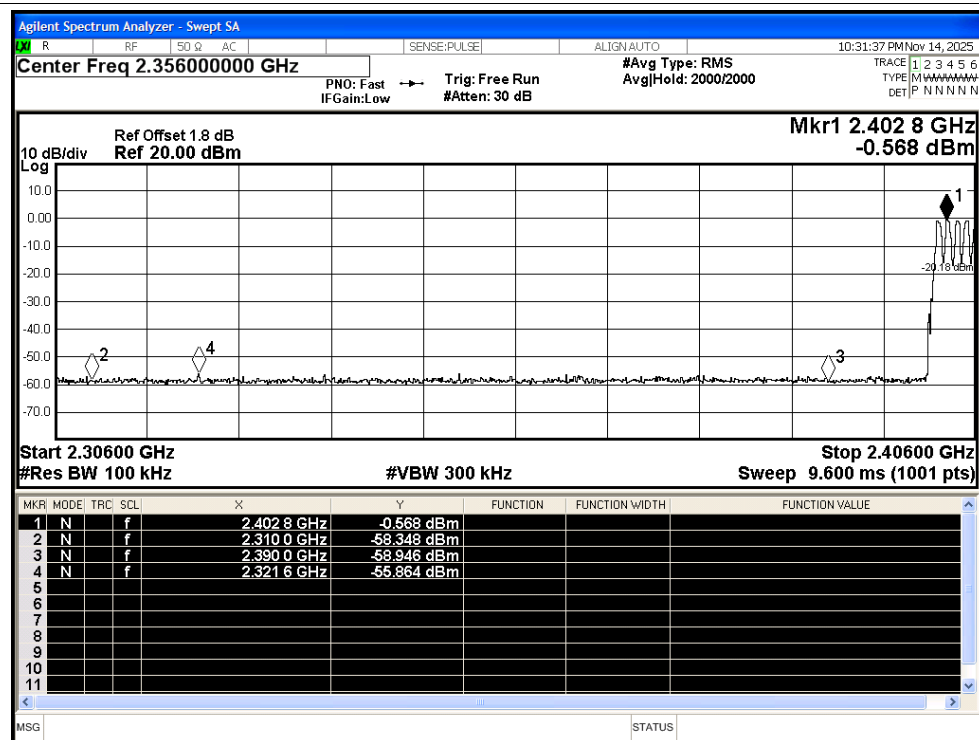
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-55.68	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-57.35	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-52.55	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-54.92	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-53.05	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-55.48	-20	Pass

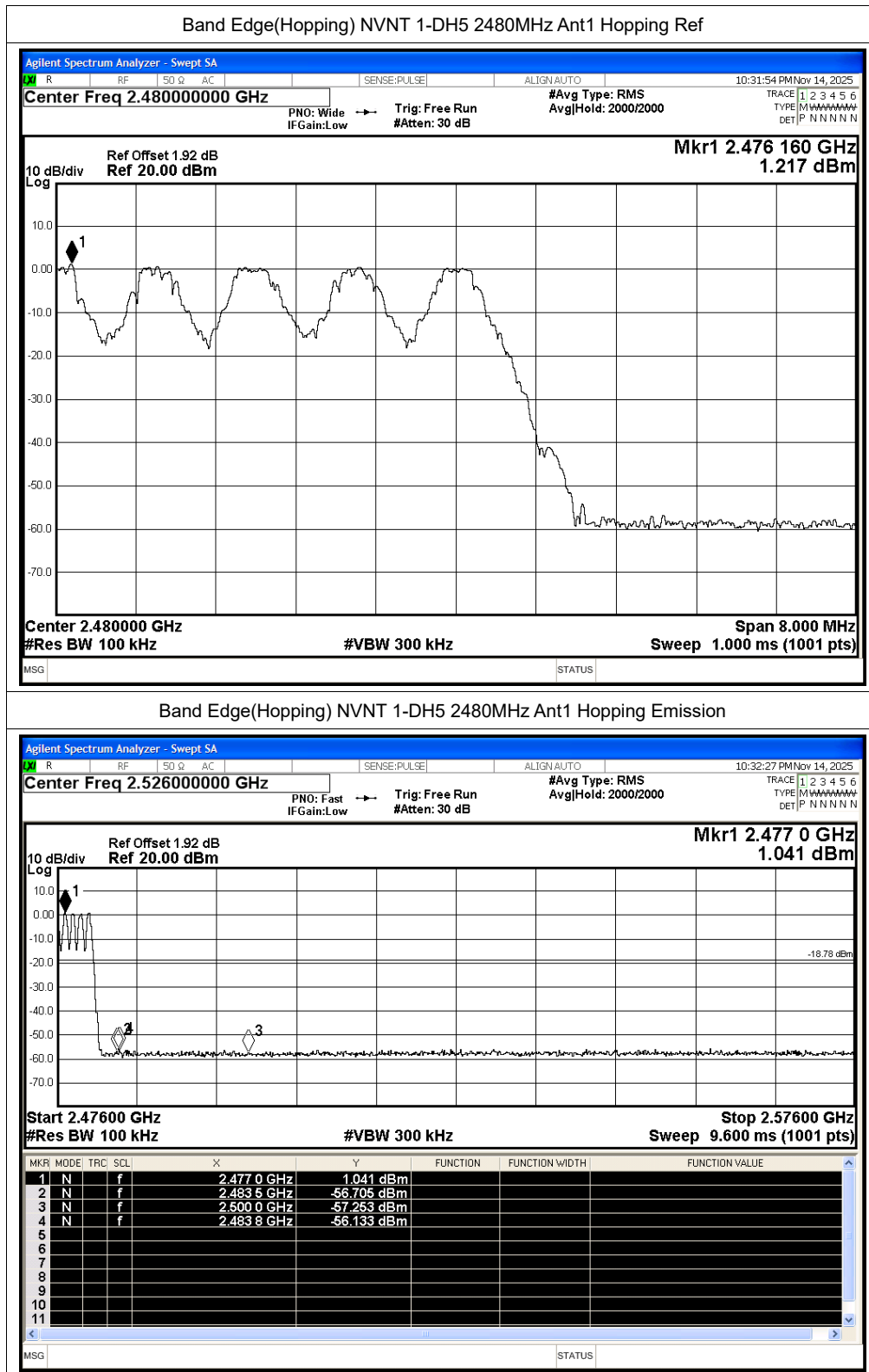
Test Graphs

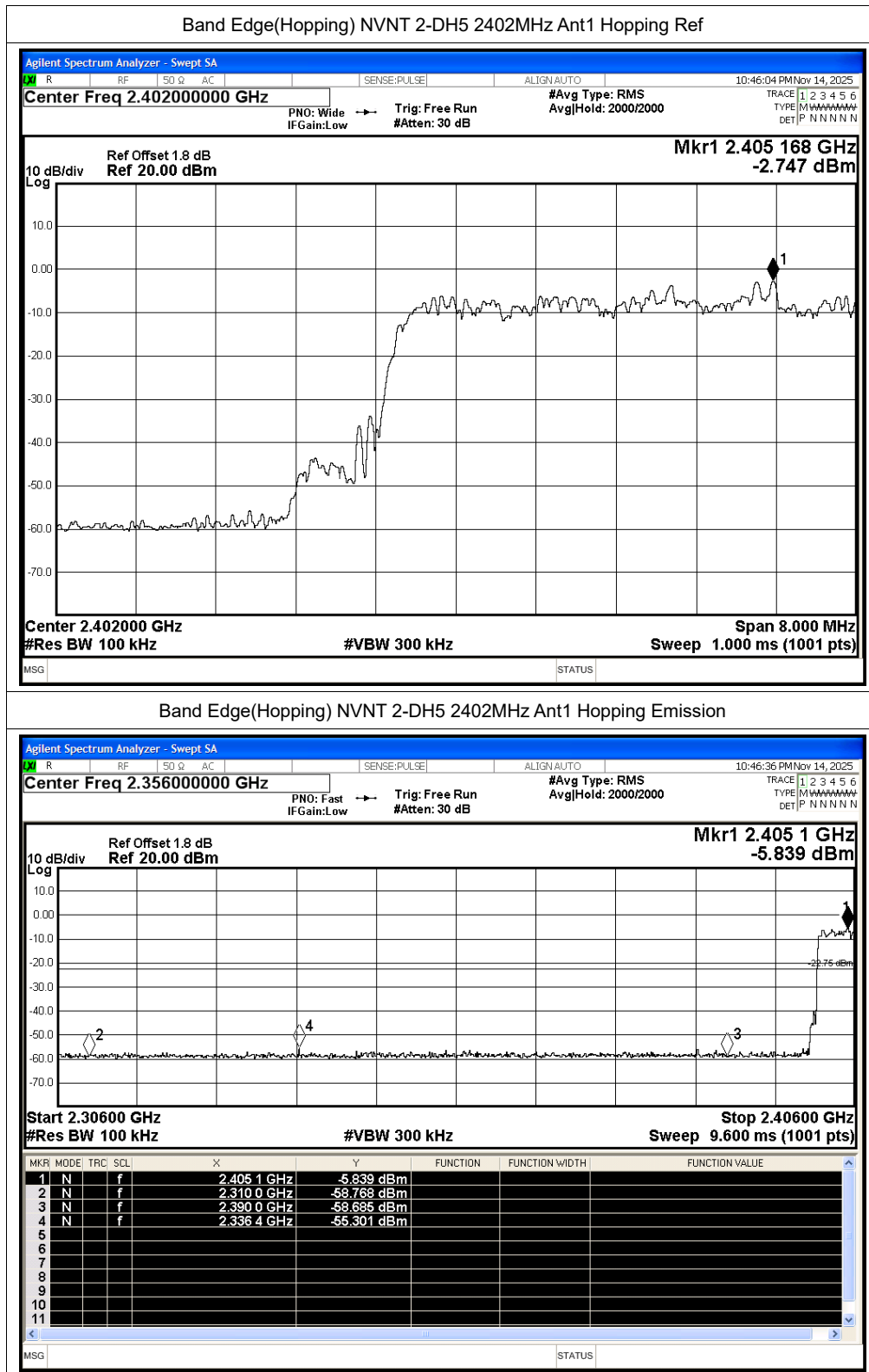
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Ref

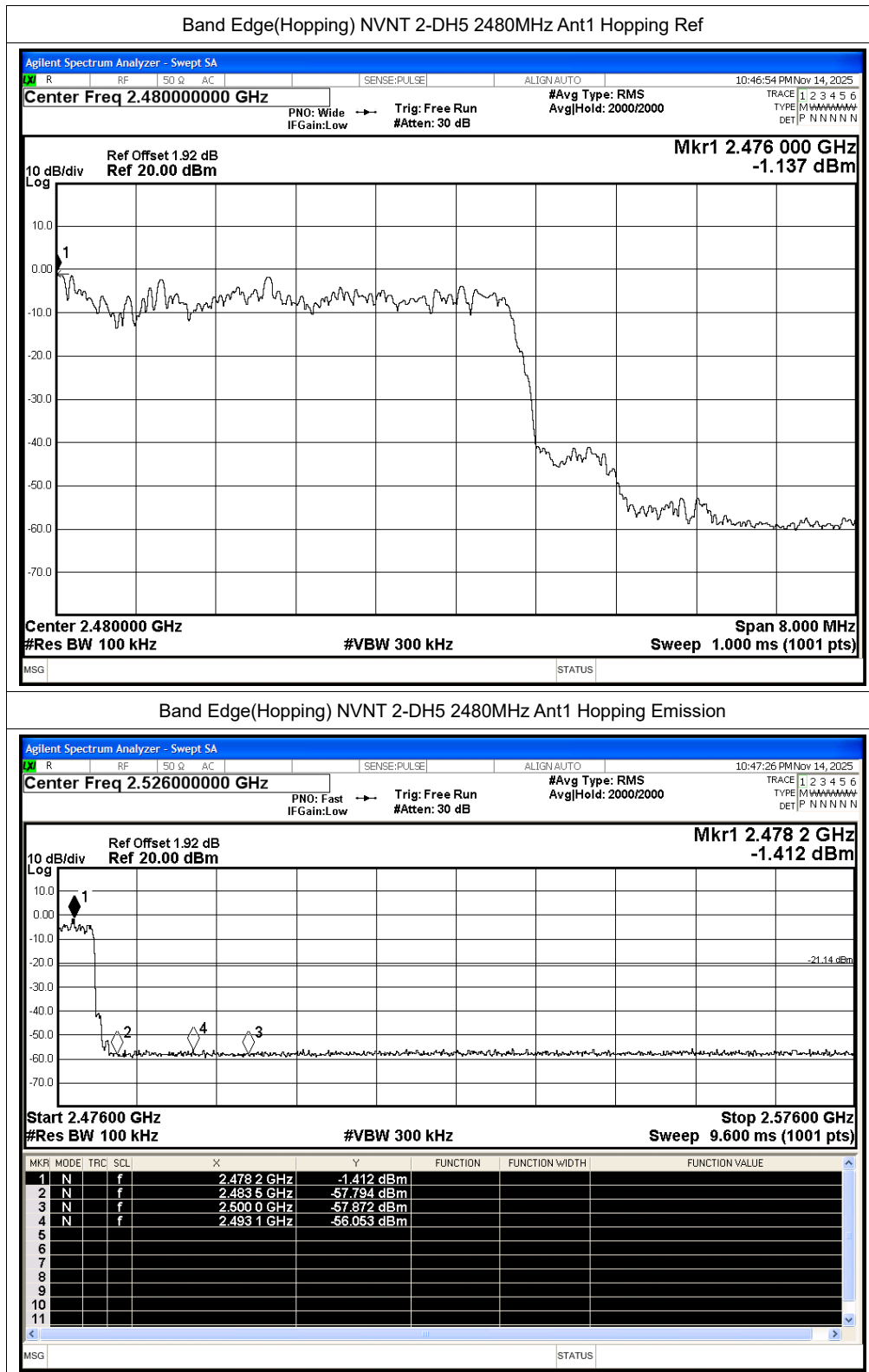


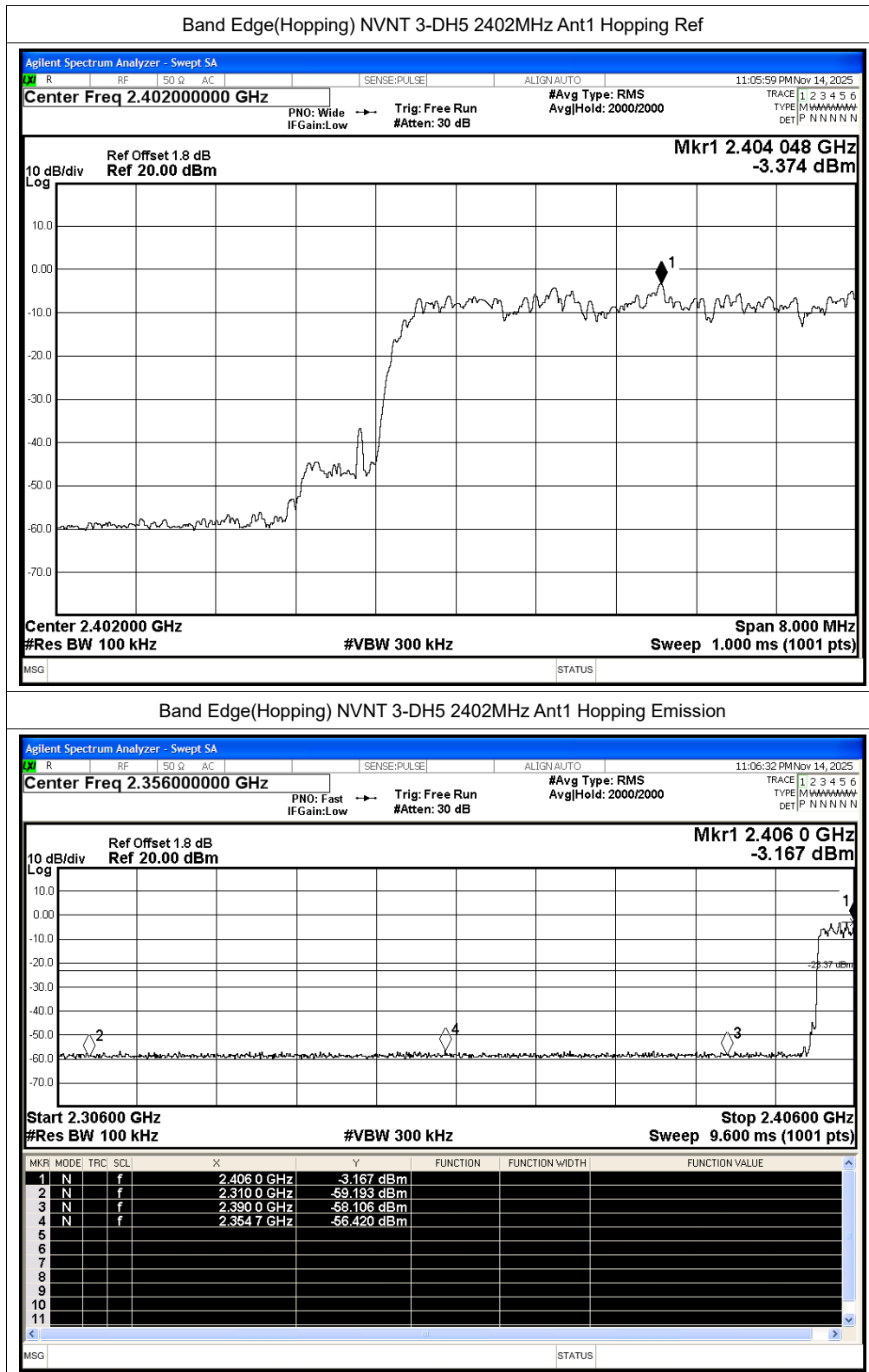
Band Edge(Hopping) NVNT 1-DH5 2402MHz Ant1 Hopping Emission

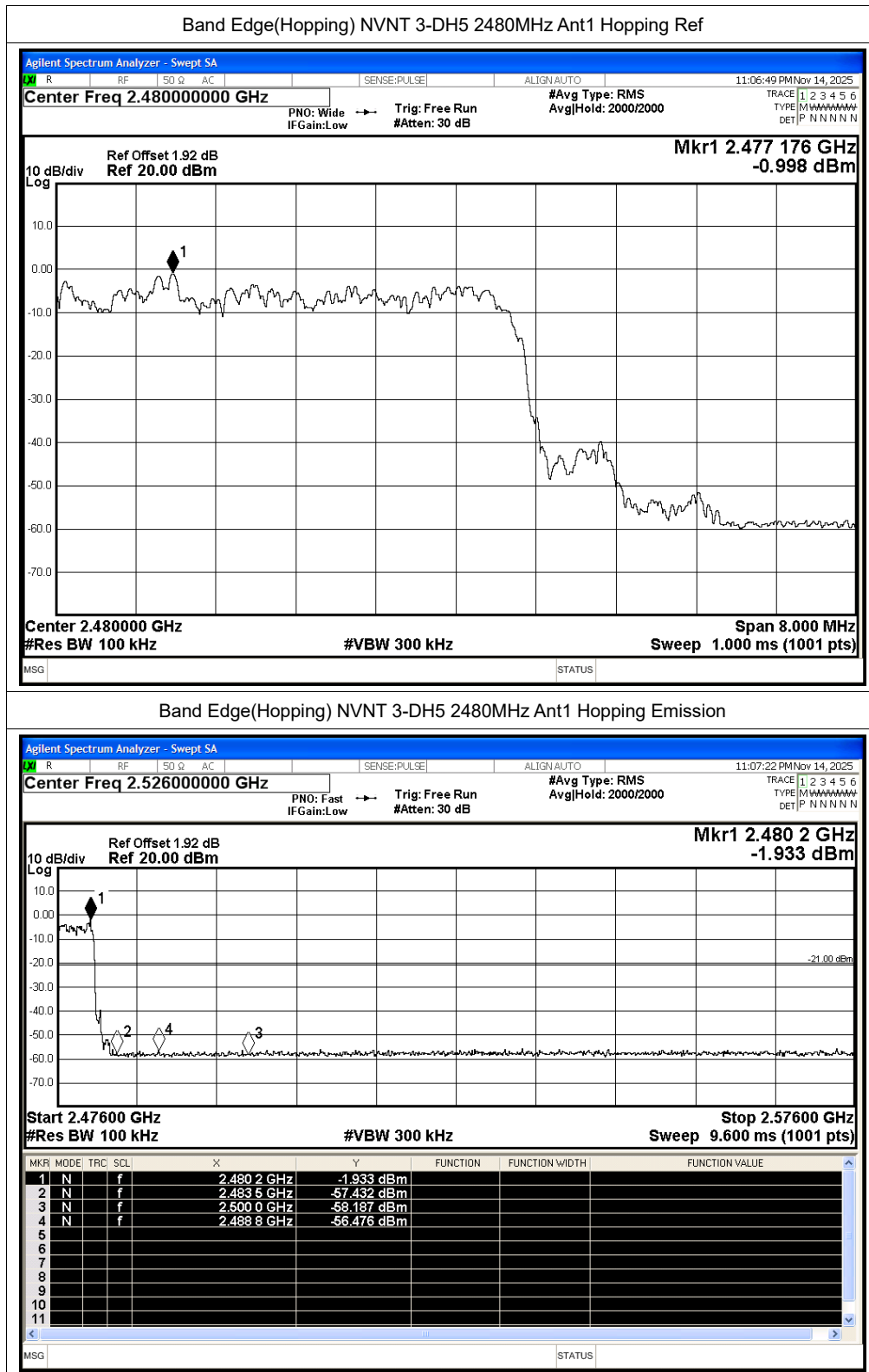










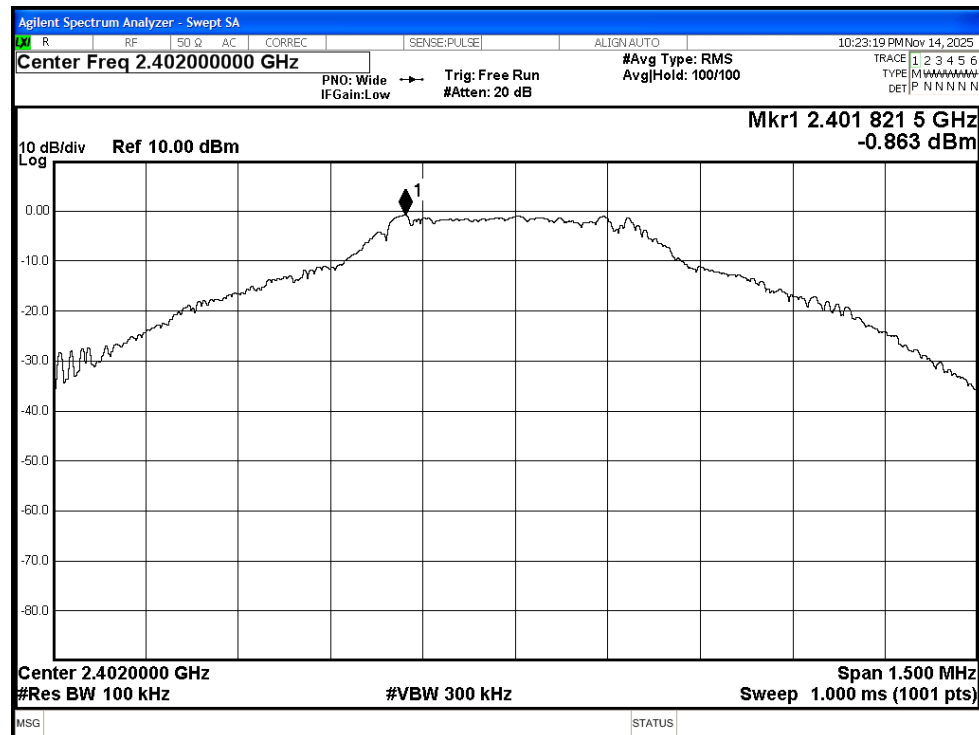


A.7 Conducted RF Spurious Emission

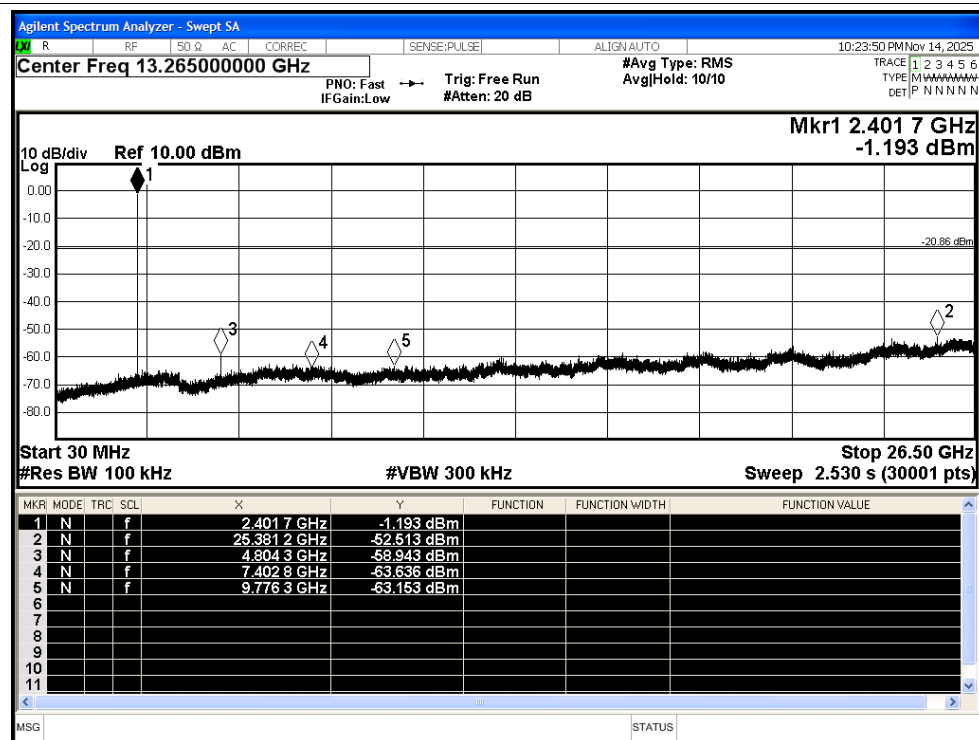
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-51.65	-20	Pass
NVNT	1-DH5	2441	Ant1	-55.05	-20	Pass
NVNT	1-DH5	2480	Ant1	-53.98	-20	Pass
NVNT	2-DH5	2402	Ant1	-49.09	-20	Pass
NVNT	2-DH5	2441	Ant1	-50.06	-20	Pass
NVNT	2-DH5	2480	Ant1	-51.18	-20	Pass
NVNT	3-DH5	2402	Ant1	-49.13	-20	Pass
NVNT	3-DH5	2441	Ant1	-51.71	-20	Pass
NVNT	3-DH5	2480	Ant1	-50.24	-20	Pass

Test Graphs

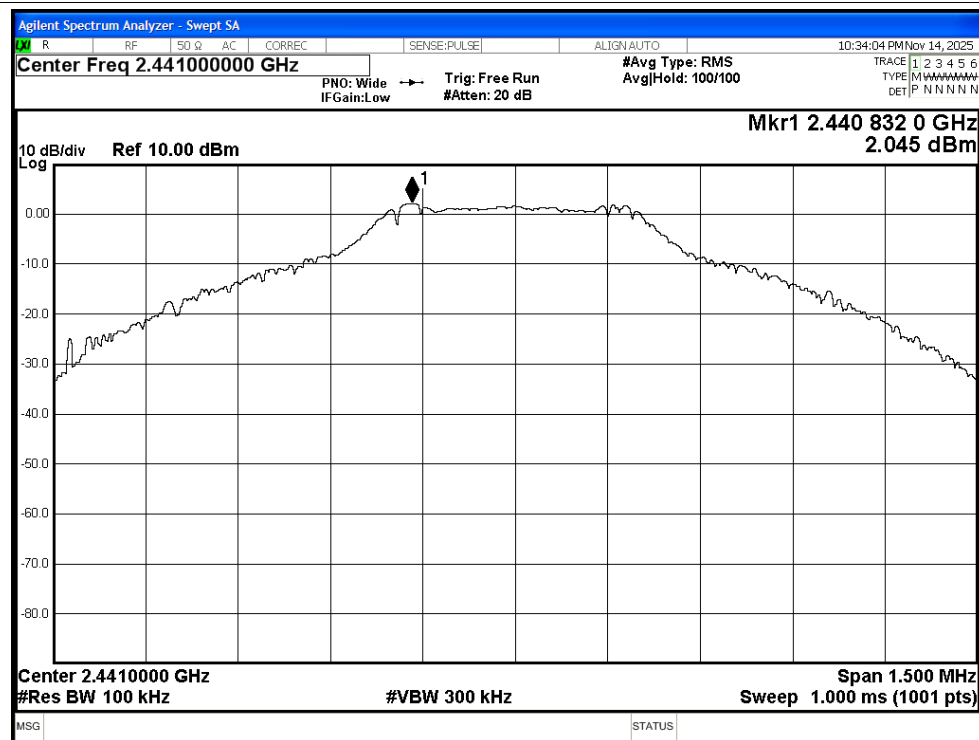
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



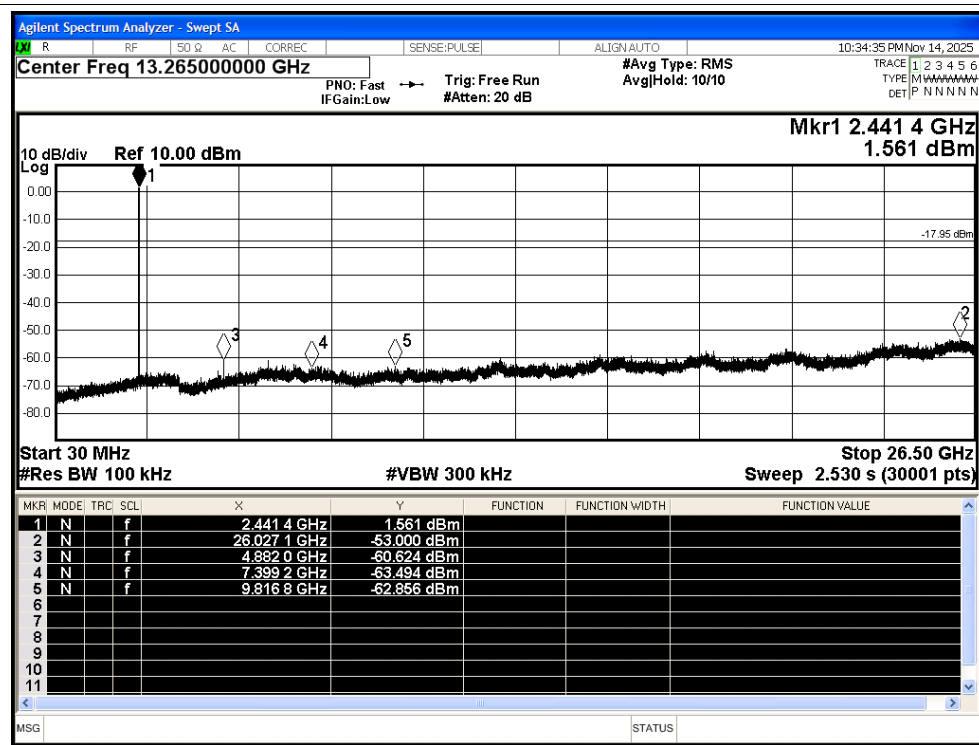
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



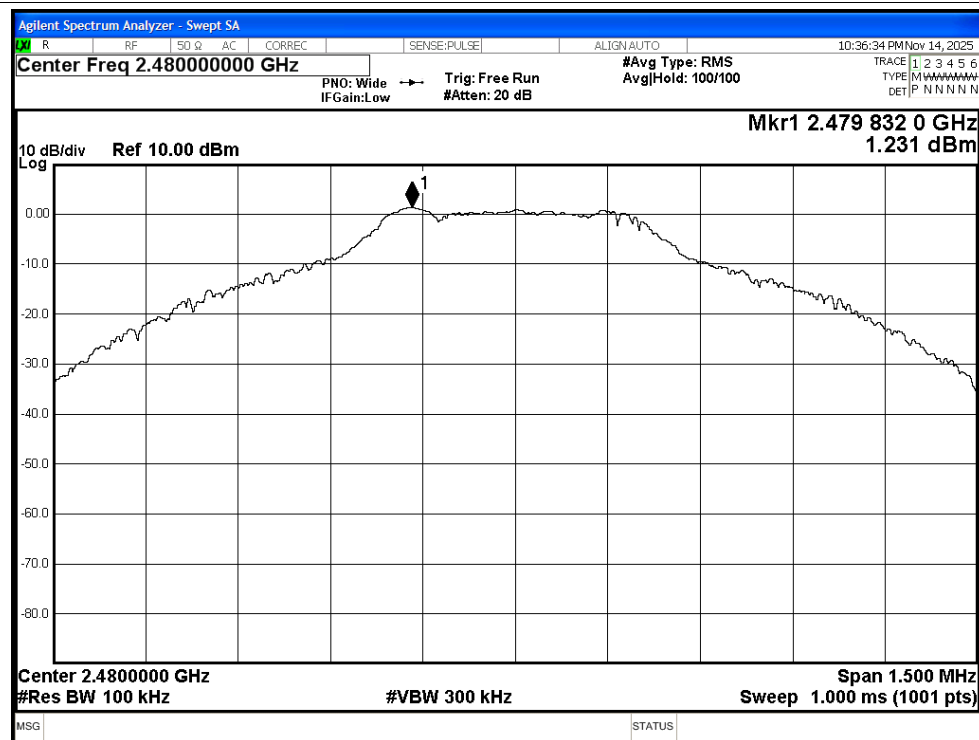
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



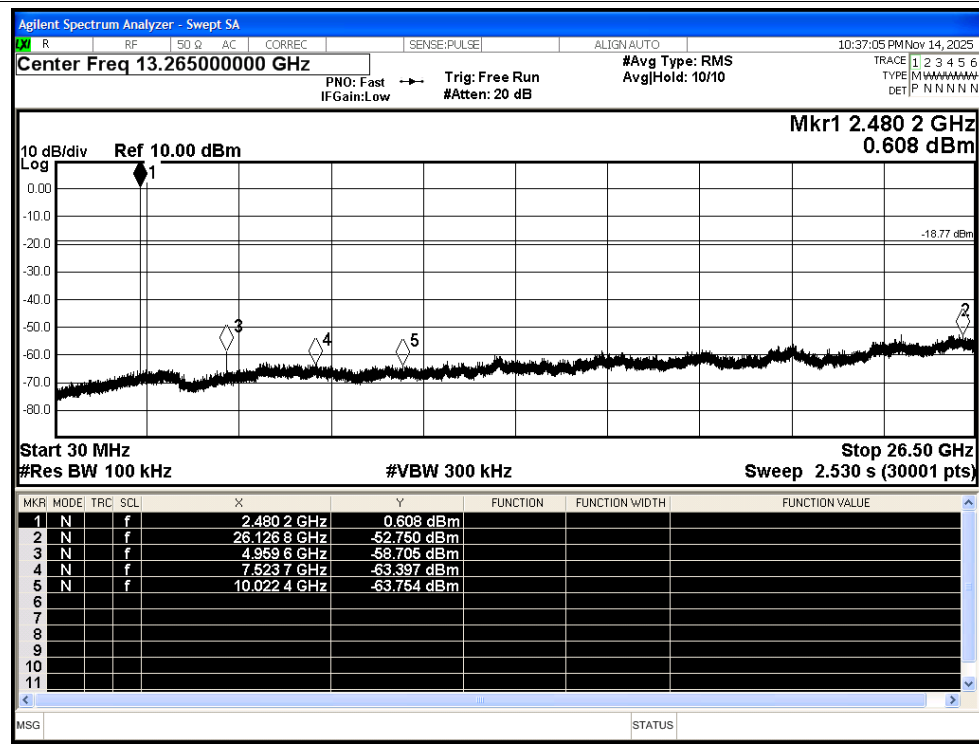
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



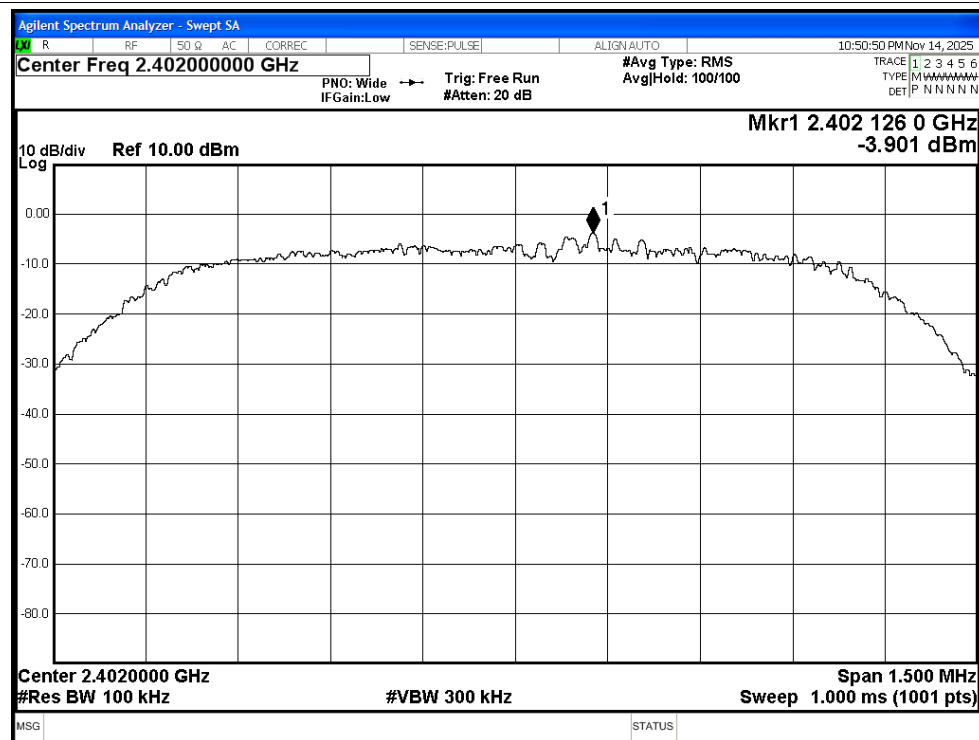
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



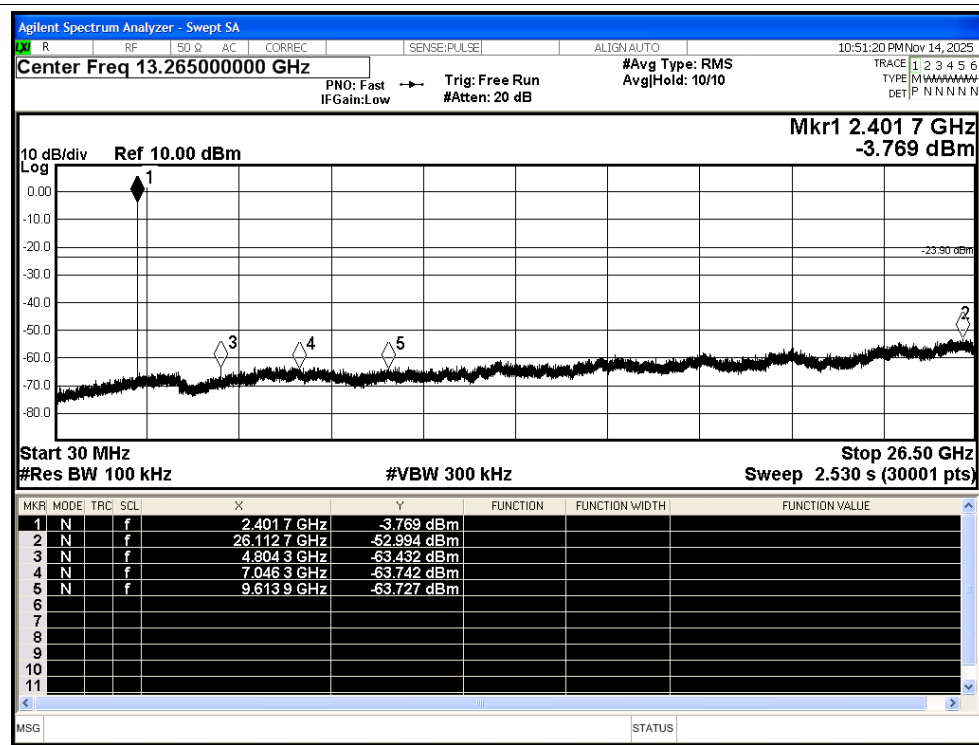
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



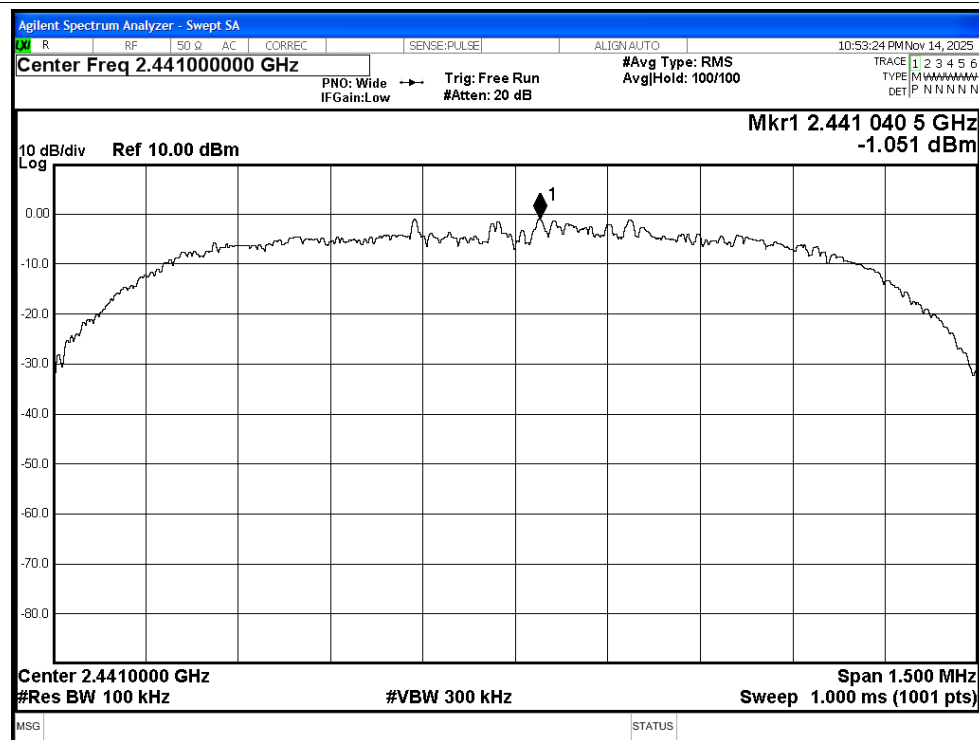
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



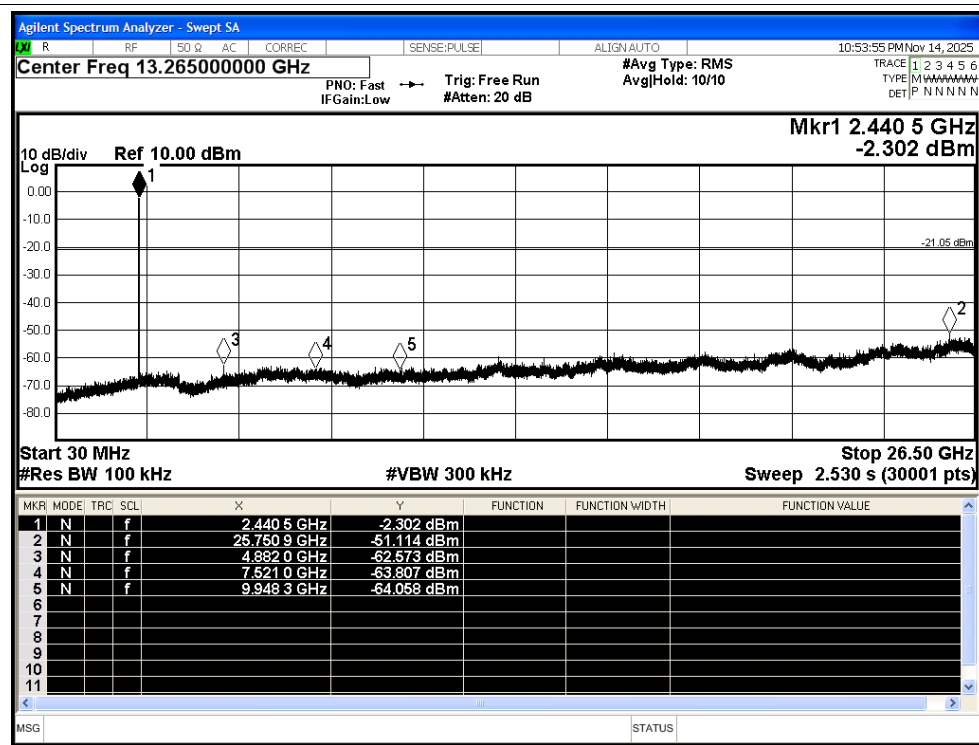
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



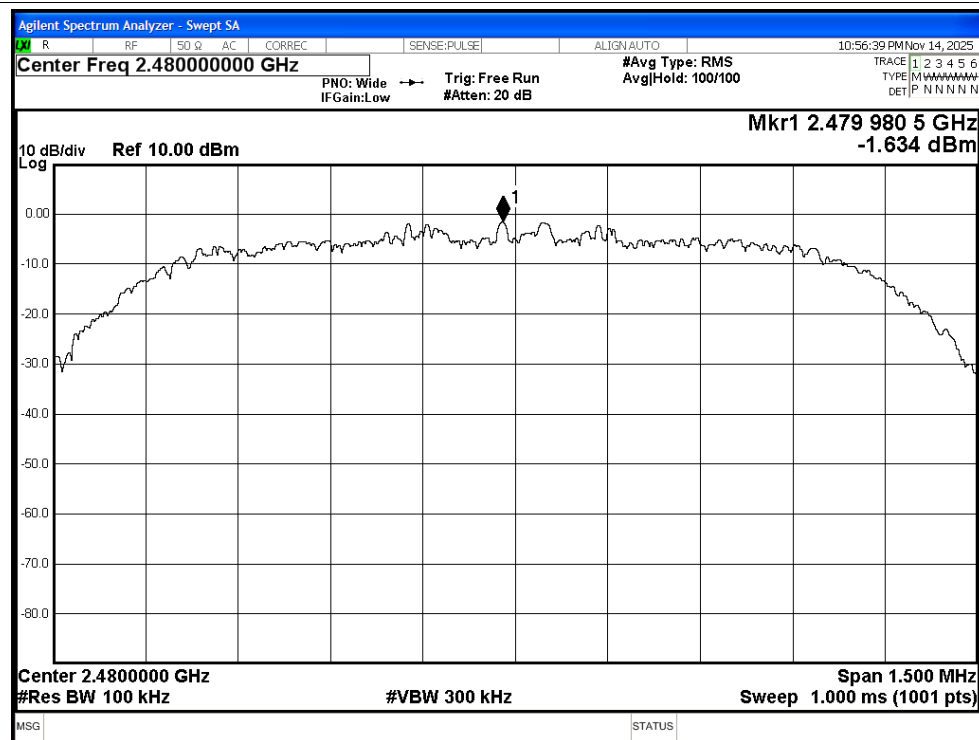
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



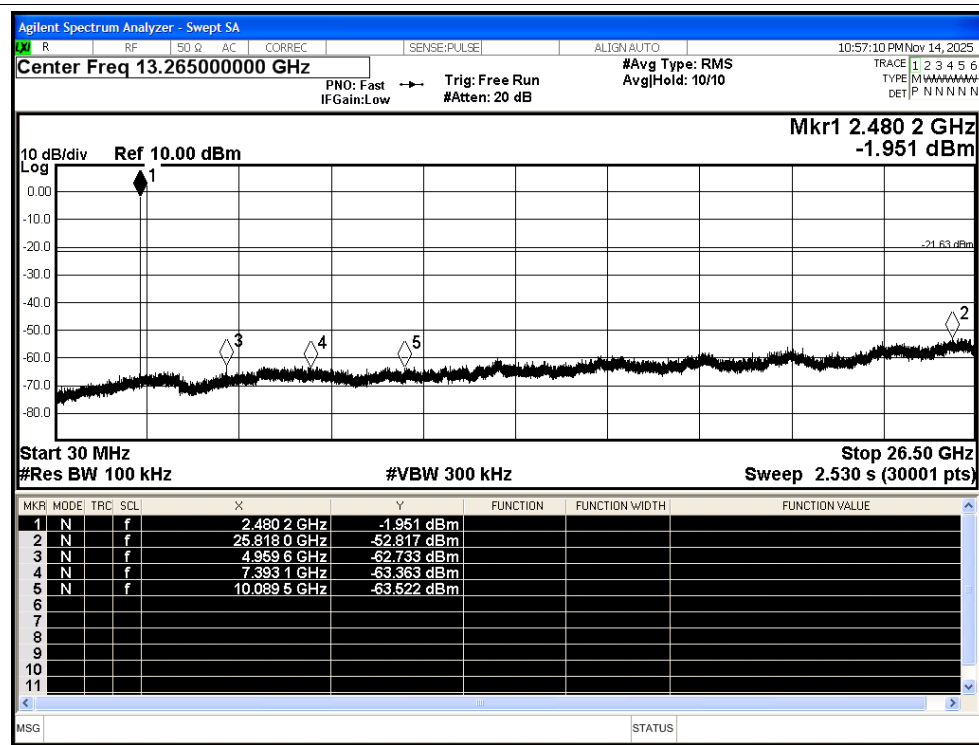
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



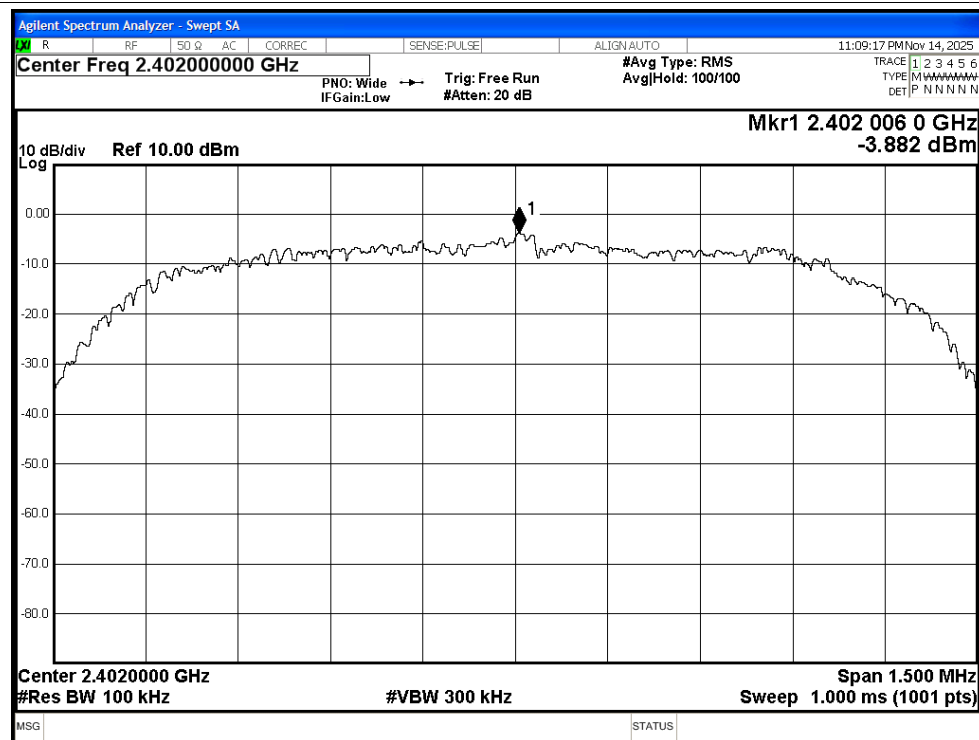
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



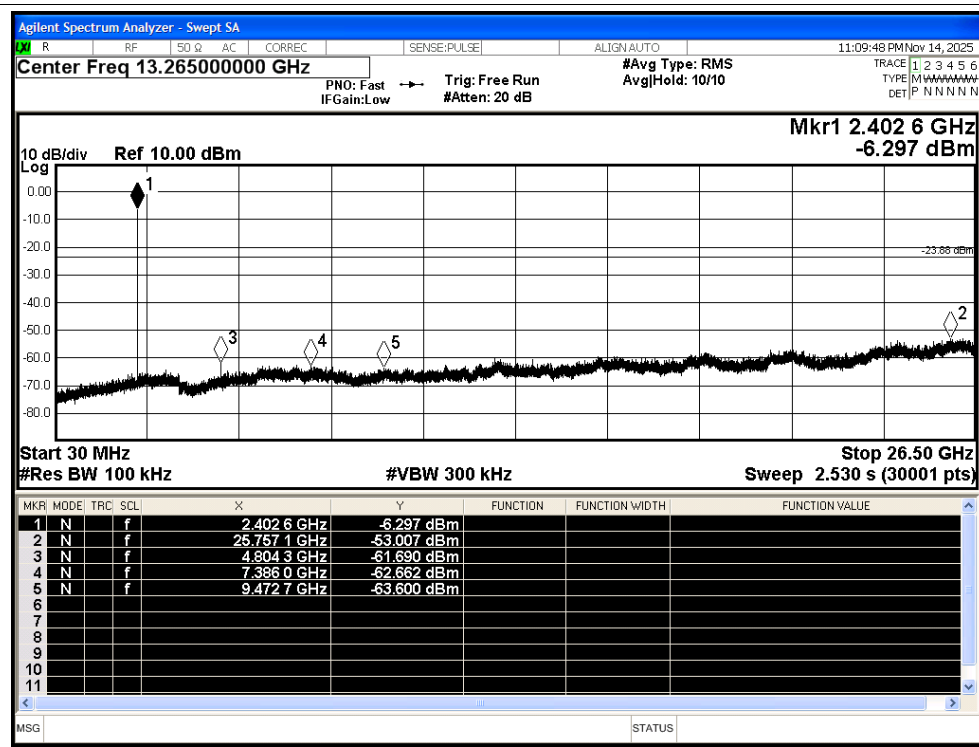
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



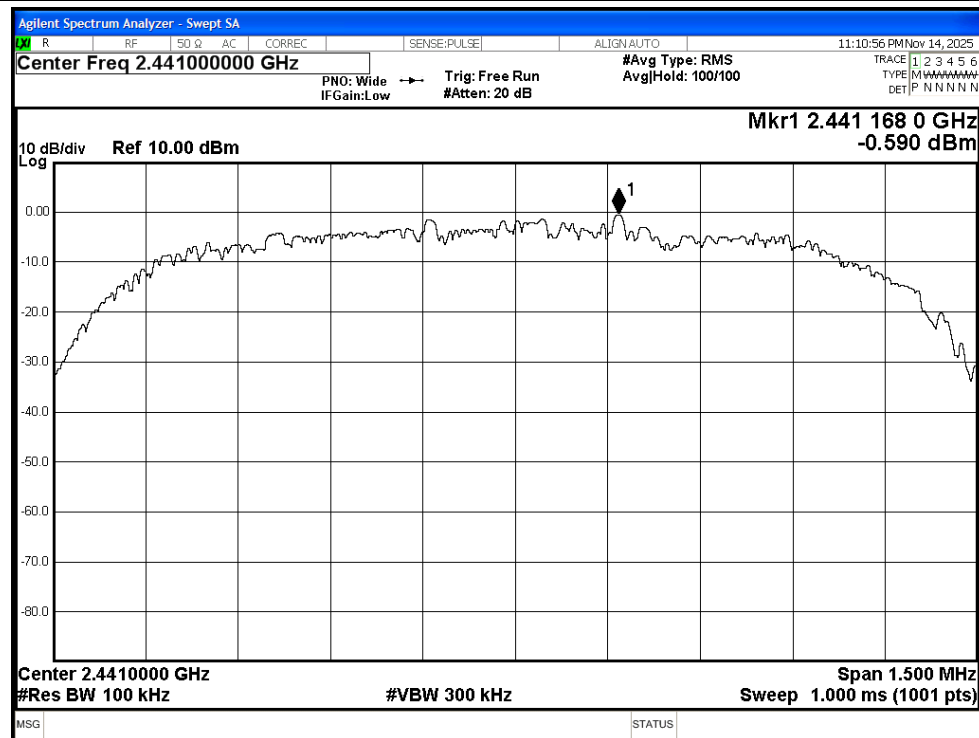
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



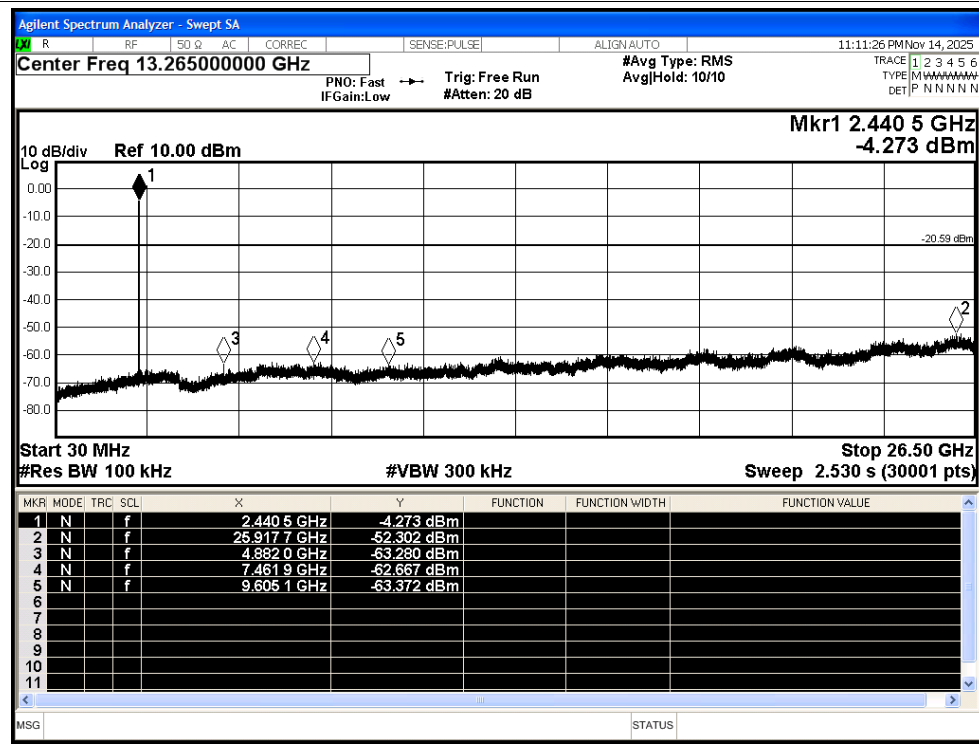
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



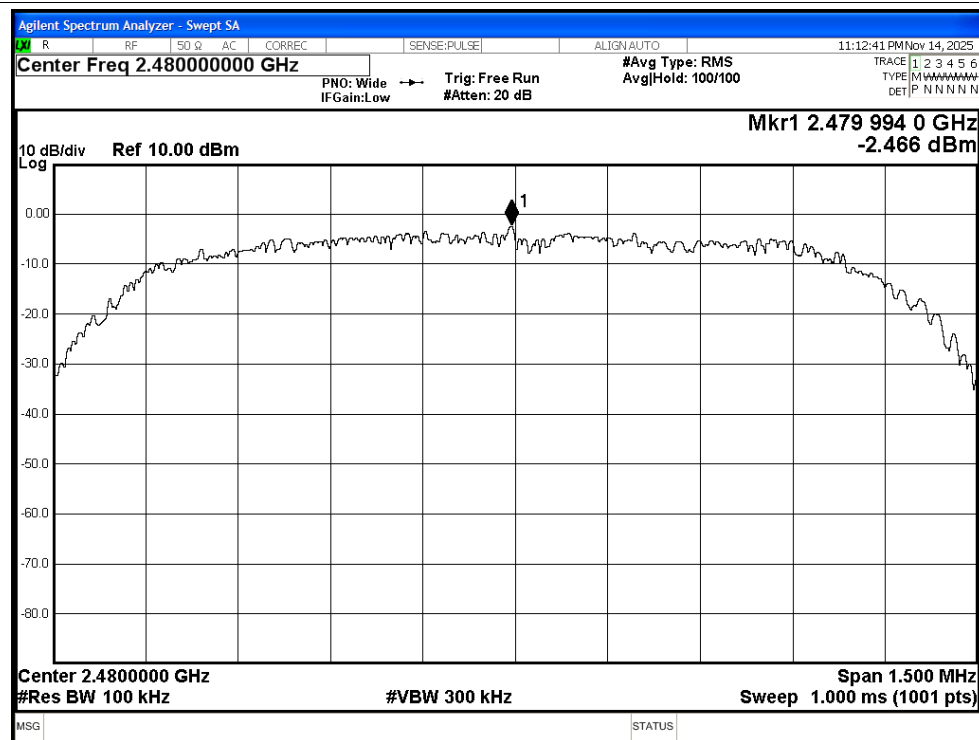
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



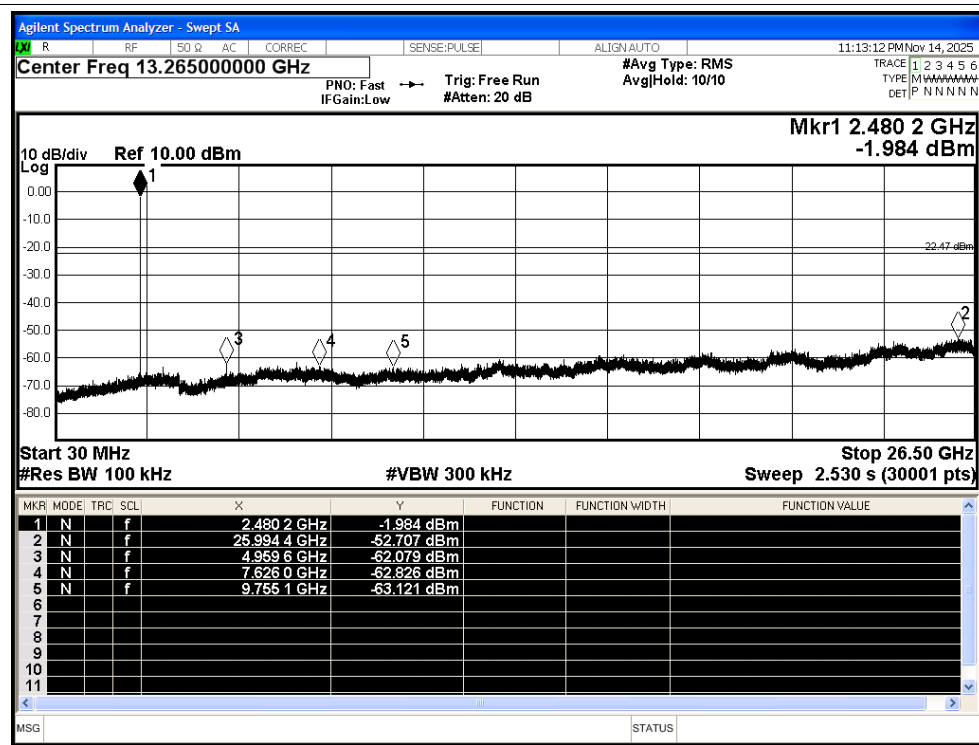
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission

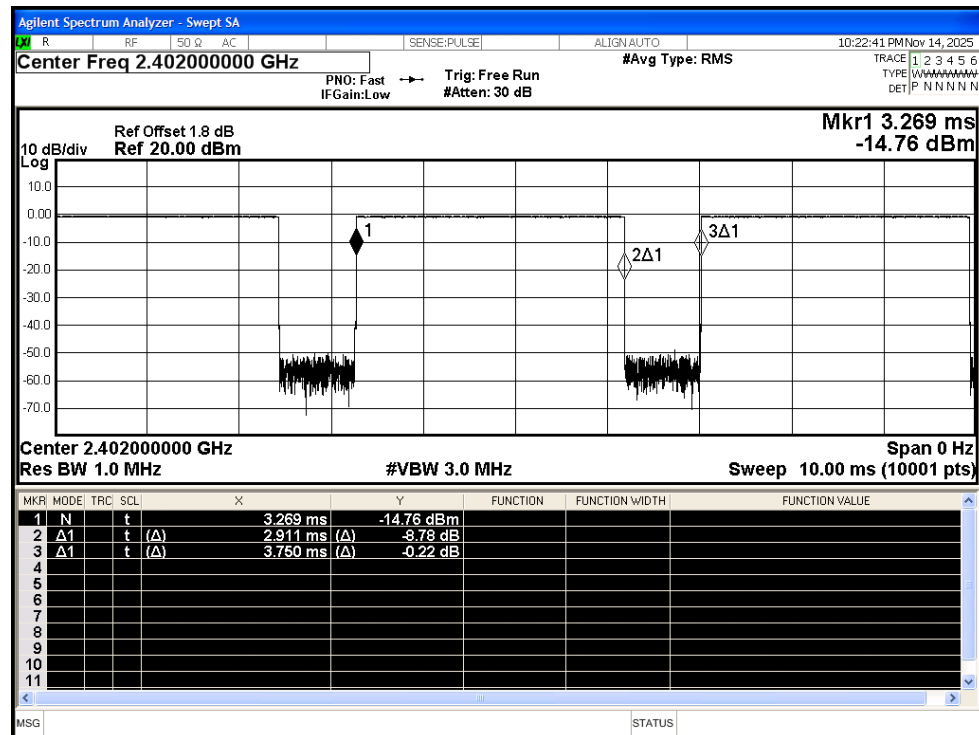


A.8 Duty Cycle

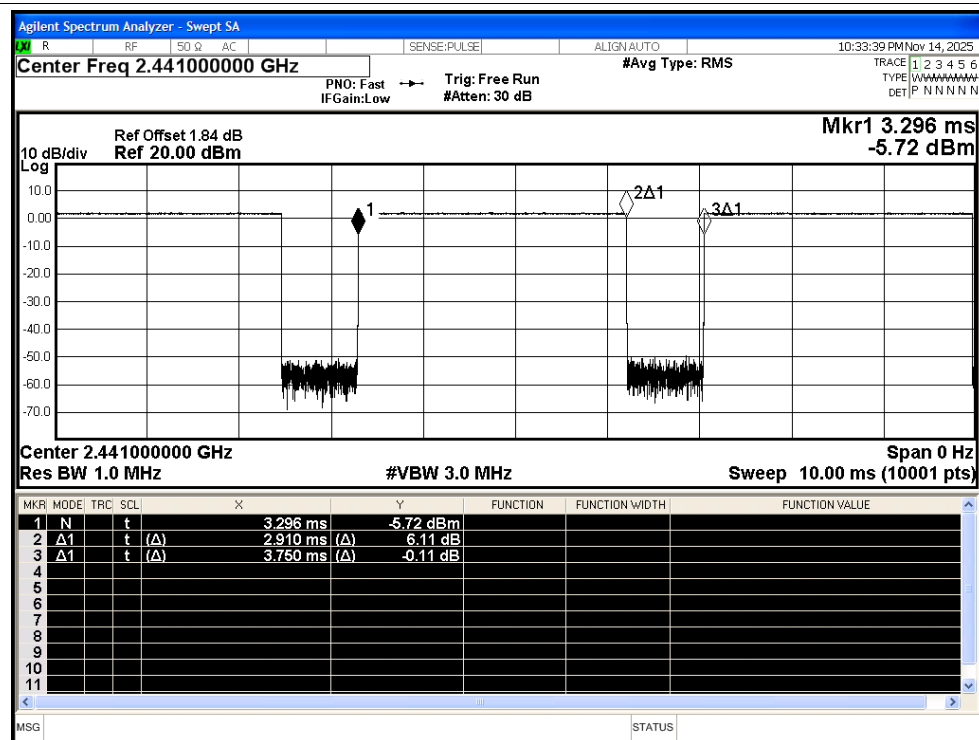
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	77.63	1.1	0.34
NVNT	1-DH5	2441	Ant1	77.6	1.1	0.34
NVNT	1-DH5	2480	Ant1	77.63	1.1	0.34
NVNT	2-DH5	2402	Ant1	77.28	1.12	0.35
NVNT	2-DH5	2441	Ant1	76.43	1.17	0.36
NVNT	2-DH5	2480	Ant1	97.22	0.12	7.14
NVNT	3-DH5	2402	Ant1	76.37	1.17	0.36
NVNT	3-DH5	2441	Ant1	77.28	1.12	0.35
NVNT	3-DH5	2480	Ant1	97.22	0.12	7.14

Test Graphs

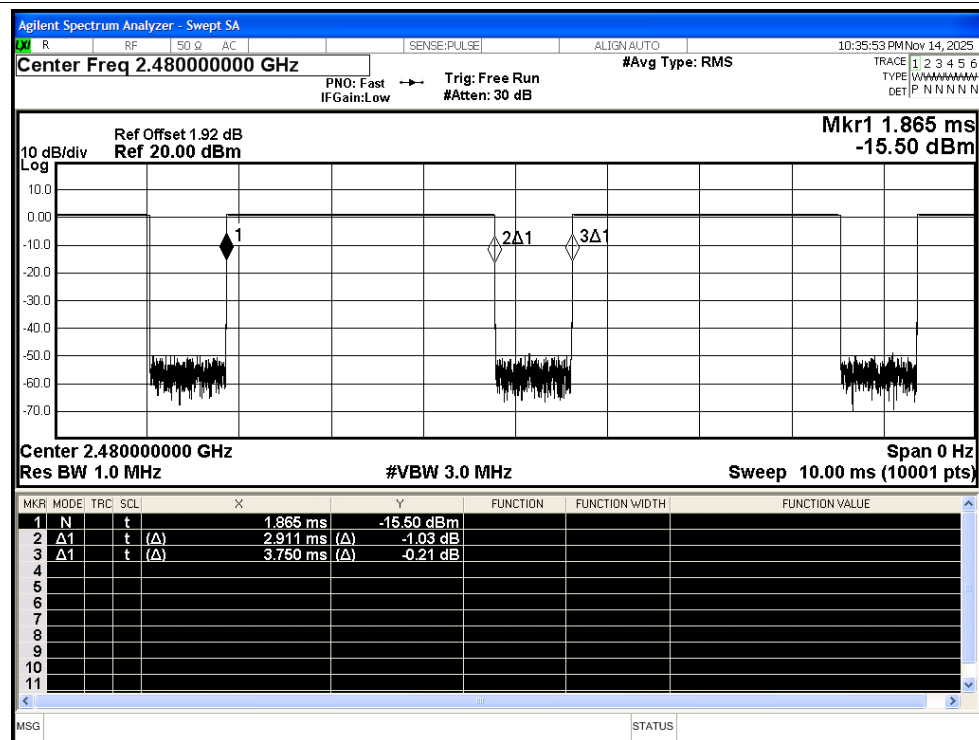
Duty Cycle NVNT 1-DH5 2402MHz Ant1



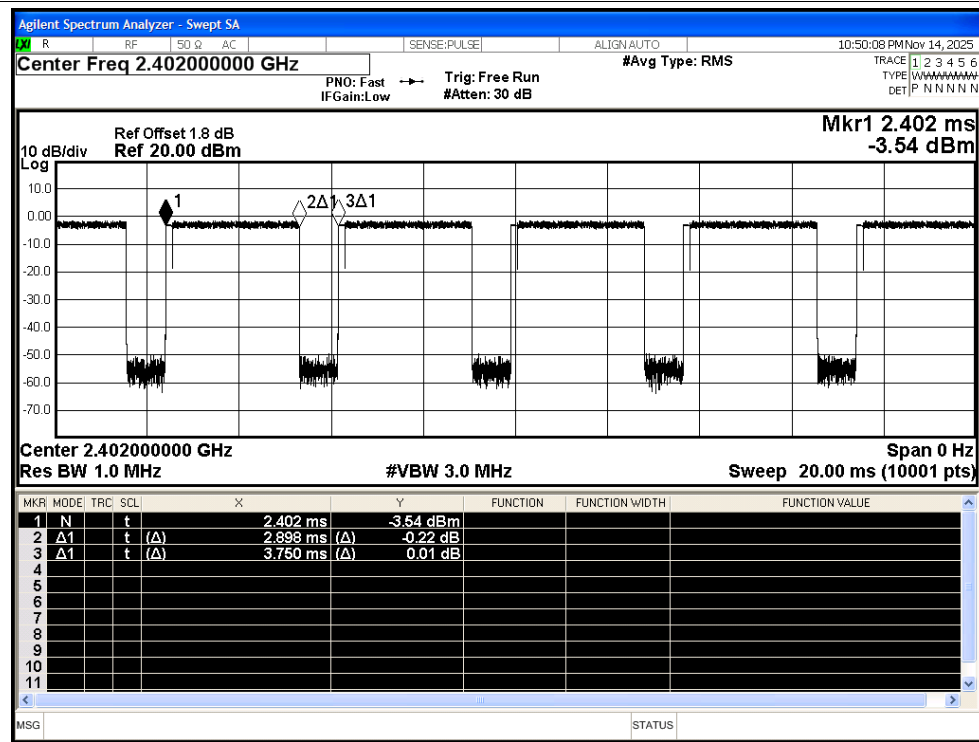
Duty Cycle NVNT 1-DH5 2441MHz Ant1



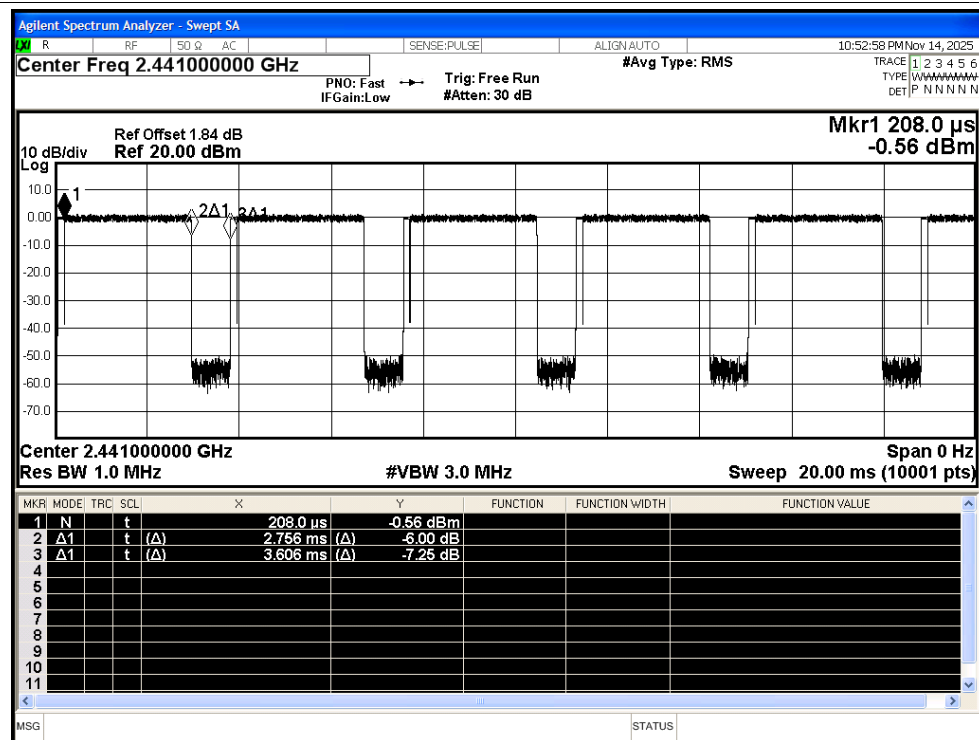
Duty Cycle NVNT 1-DH5 2480MHz Ant1



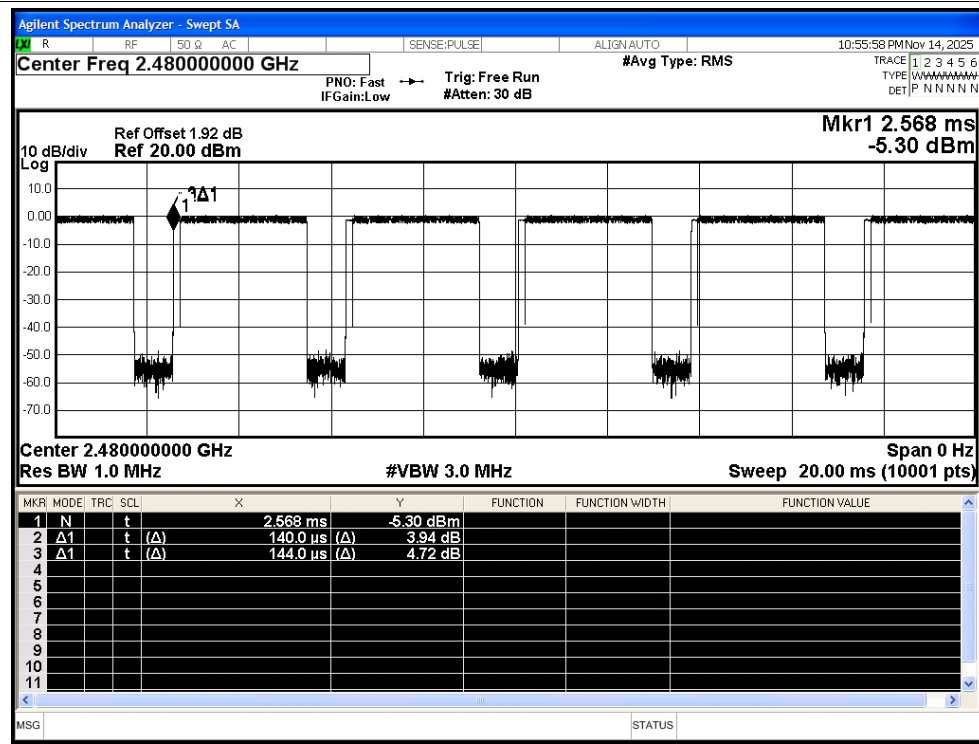
Duty Cycle NVNT 2-DH5 2402MHz Ant1



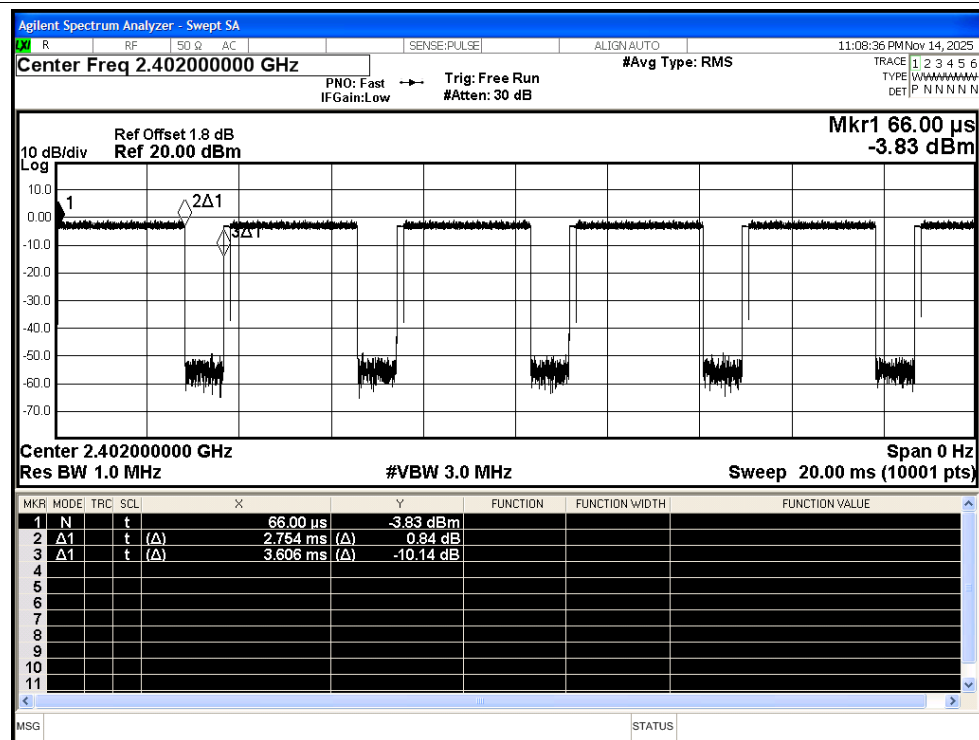
Duty Cycle NVNT 2-DH5 2441MHz Ant1



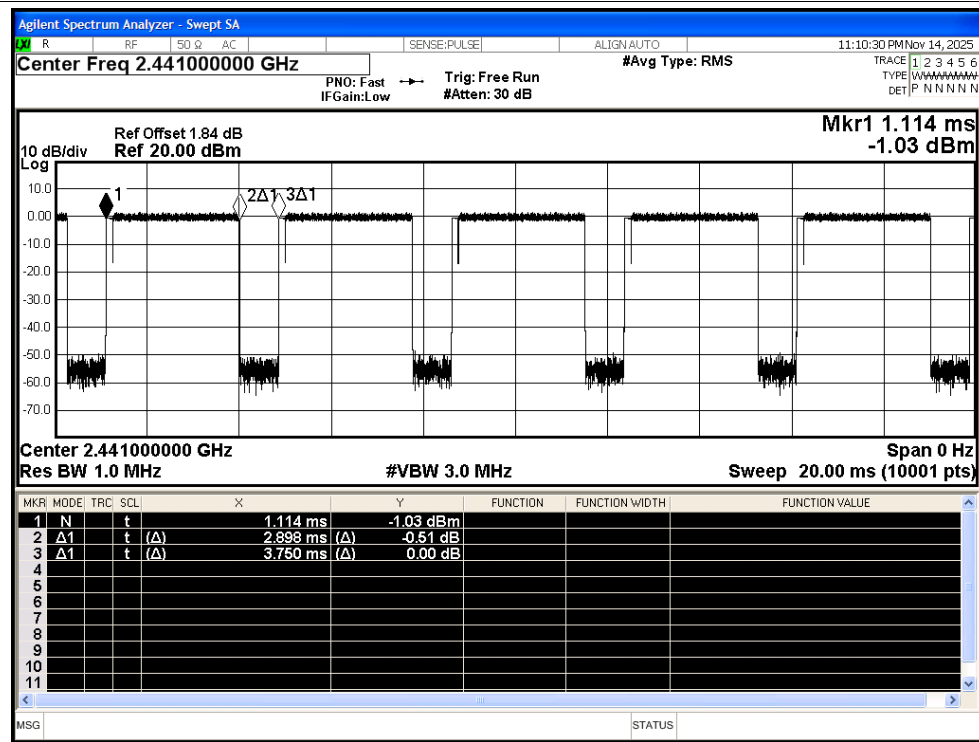
Duty Cycle NVNT 2-DH5 2480MHz Ant1

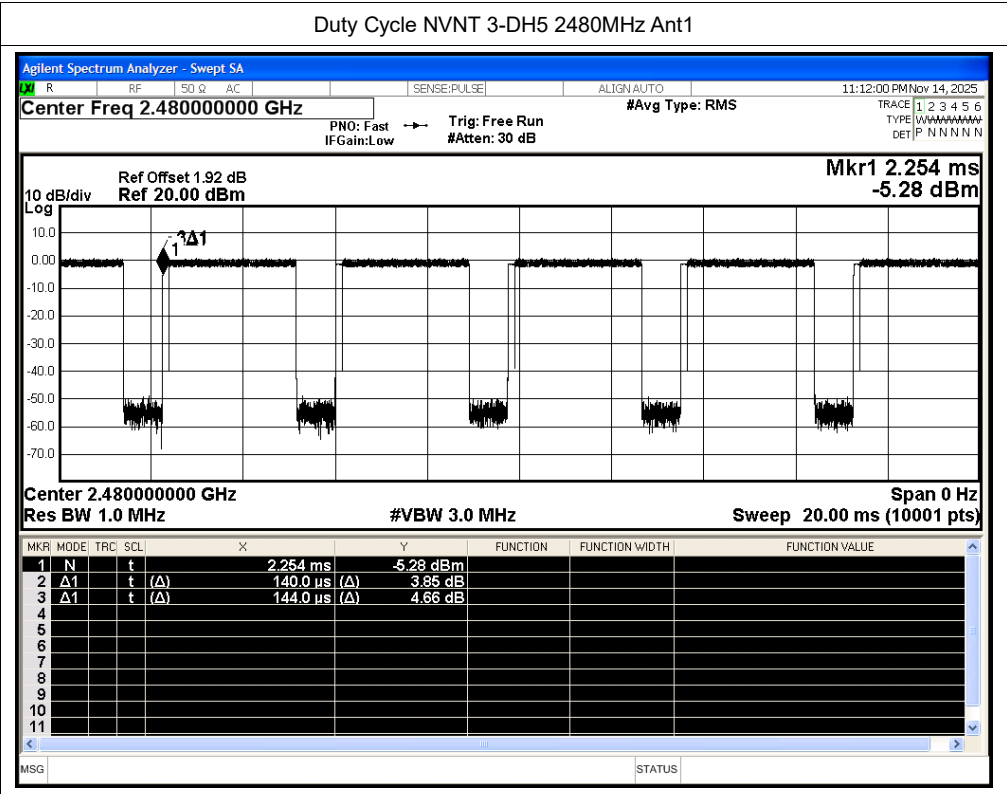


Duty Cycle NVNT 3-DH5 2402MHz Ant1



Duty Cycle NVNT 3-DH5 2441MHz Ant1

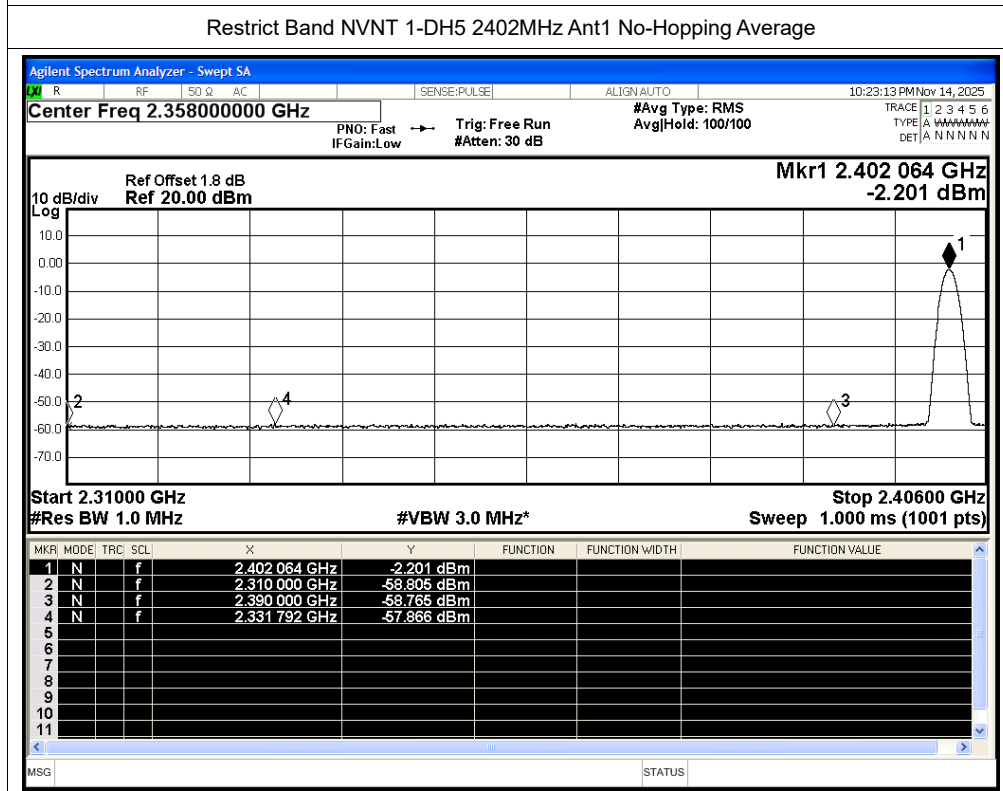
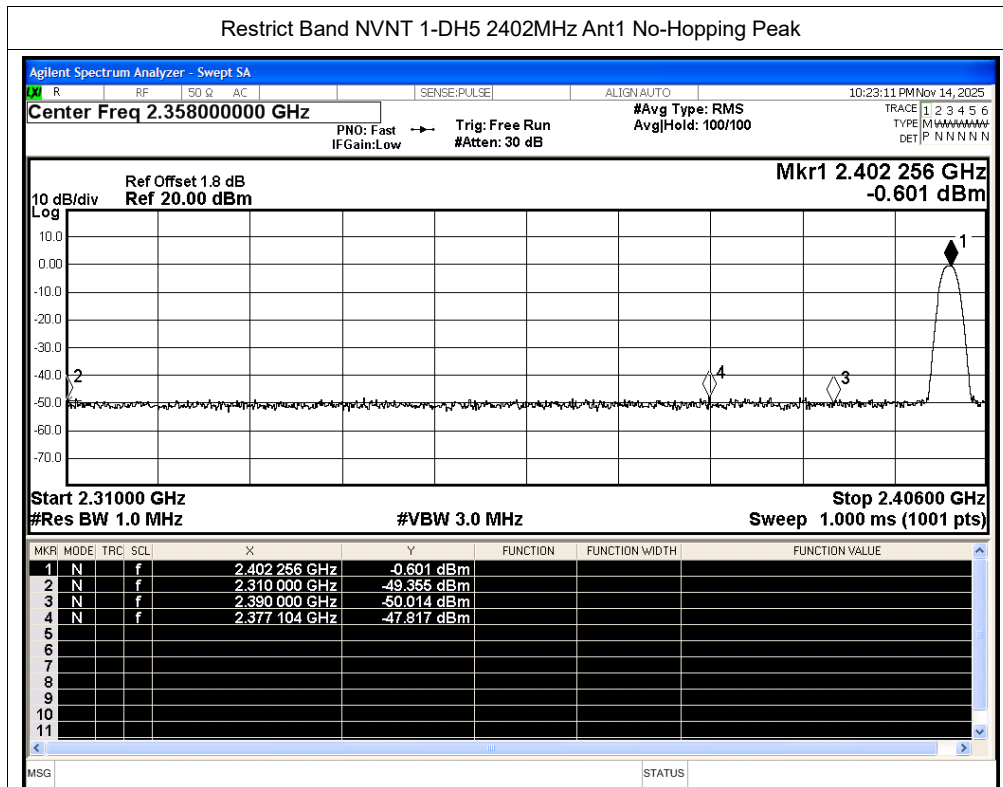




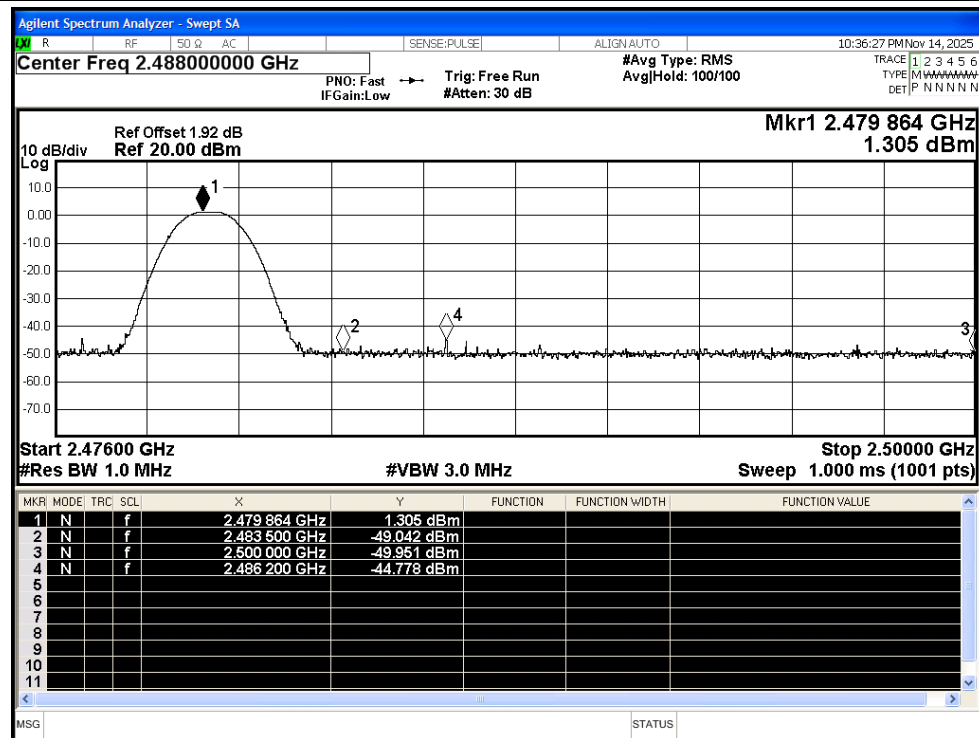
A.9 Restrict Band

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	-49.36	2	-	47.9	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-58.81	2	1.1	39.55	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2377.104	-47.82	2	-	49.44	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2331.792	-57.87	2	1.1	40.49	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.01	2	-	47.25	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-58.77	2	1.1	39.59	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-49.04	2	-	48.22	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-57.99	2	1.1	40.37	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2486.2	-44.78	2	-	52.48	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2497.84	-57.19	2	1.1	41.17	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-49.95	2	-	47.31	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-58.11	2	1.1	40.25	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-51.79	2	-	45.47	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	2351.088	-47.39	2	-	49.87	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2365.008	-58.03	2	1.12	40.35	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-51.29	2	-	45.97	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-58.44	2	1.12	39.94	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-48.54	2	-	48.72	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-58.07	2	0.12	39.31	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2484.736	-45.11	2	-	52.15	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.944	-57.11	2	0.12	40.27	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-51.57	2	-	45.69	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-57.85	2	0.12	39.53	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-51.46	2	-	45.8	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-58.94	2	1.17	39.49	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2380.848	-48.18	2	-	49.08	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2389.968	-57.84	2	1.17	40.59	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-51.38	2	-	45.88	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-57.84	2	1.17	40.59	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-49.83	2	-	47.43	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-57.94	2	0.12	39.44	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.68	-47.53	2	-	49.73	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2488.816	-57.3	2	0.12	40.08	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-50.42	2	-	46.84	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-58.19	2	0.12	39.19	Average	54	Pass

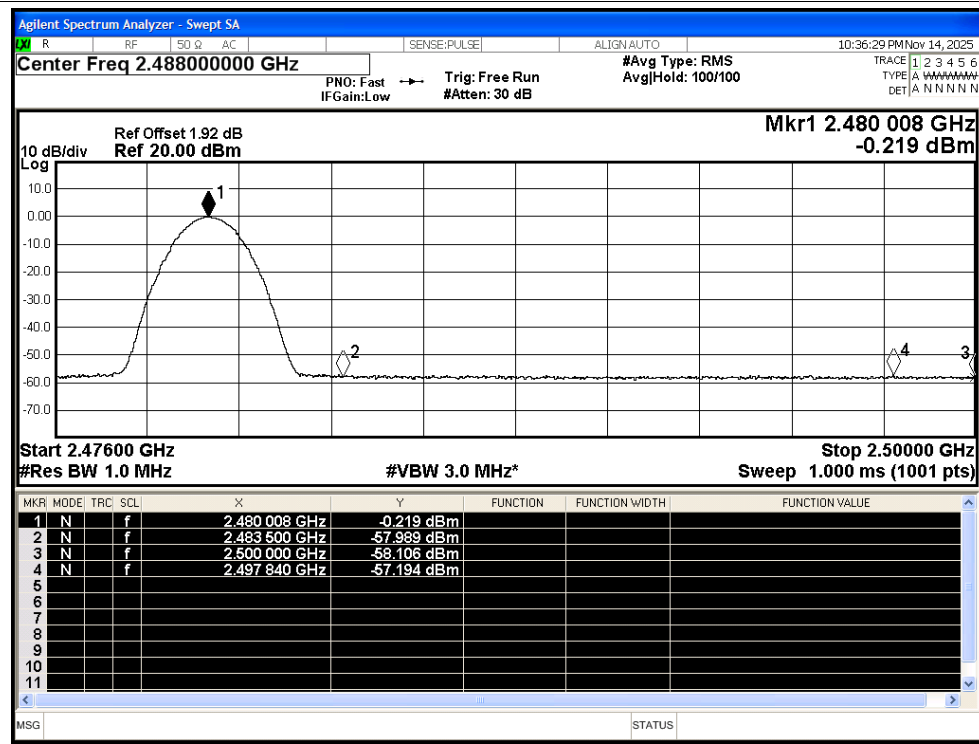
Test Graphs

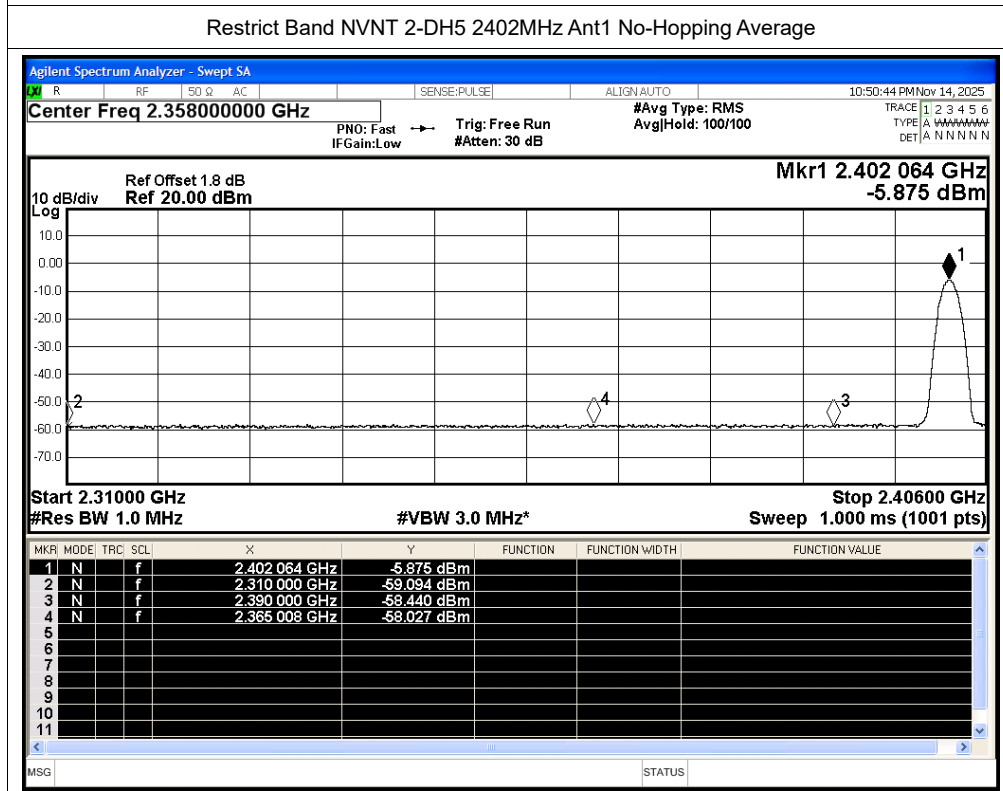
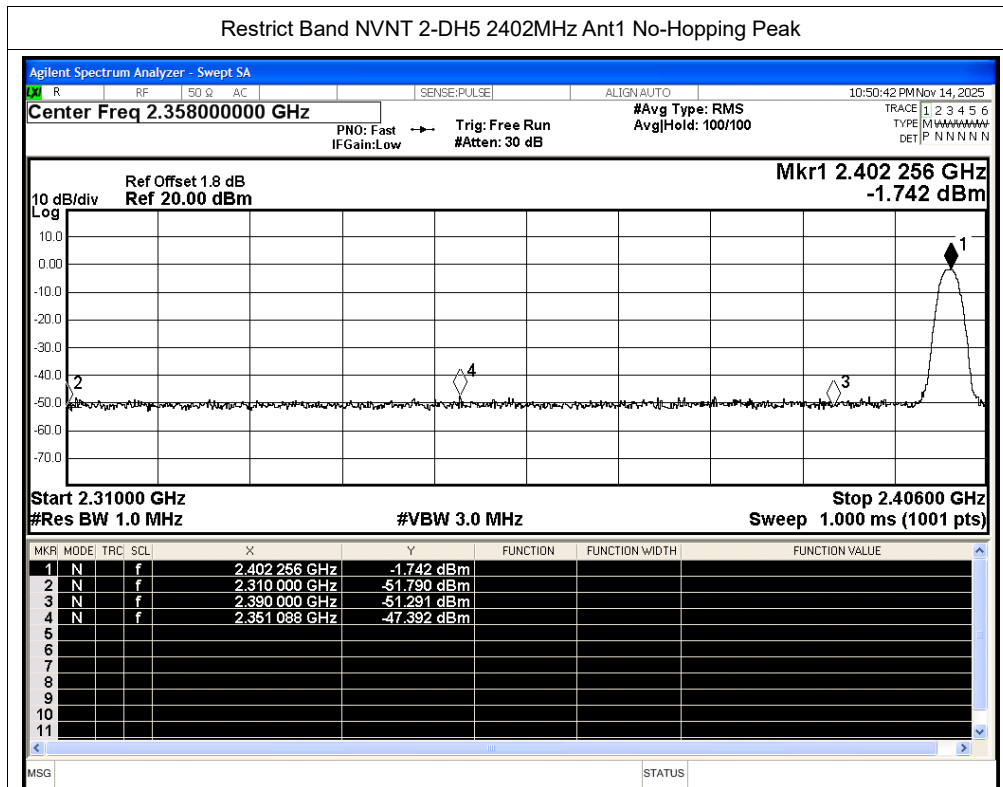


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak

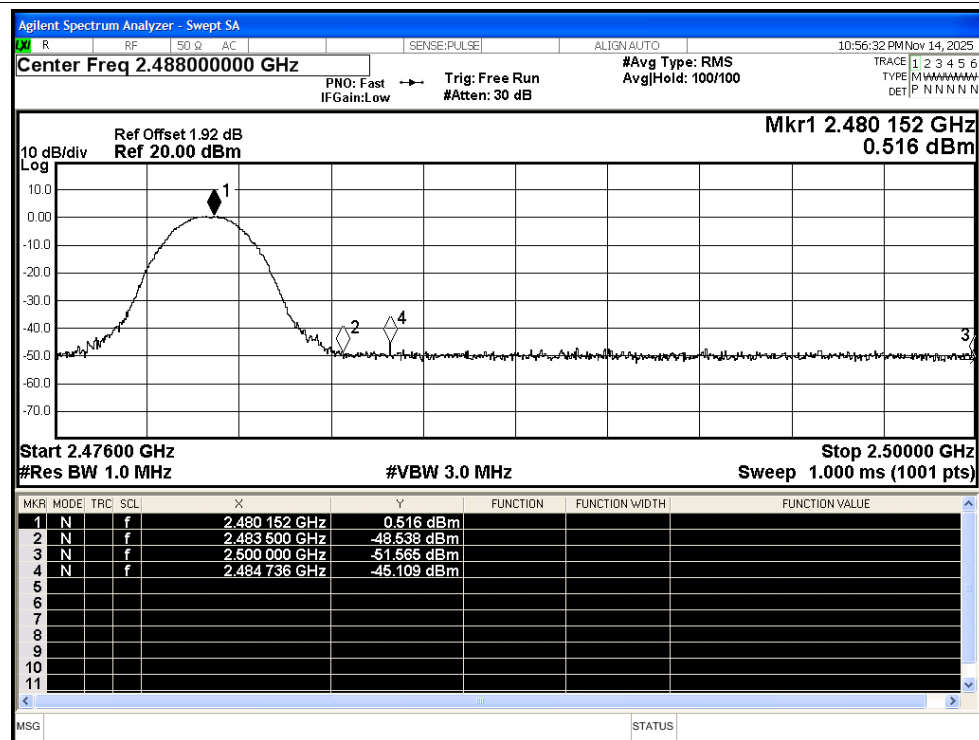


Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average

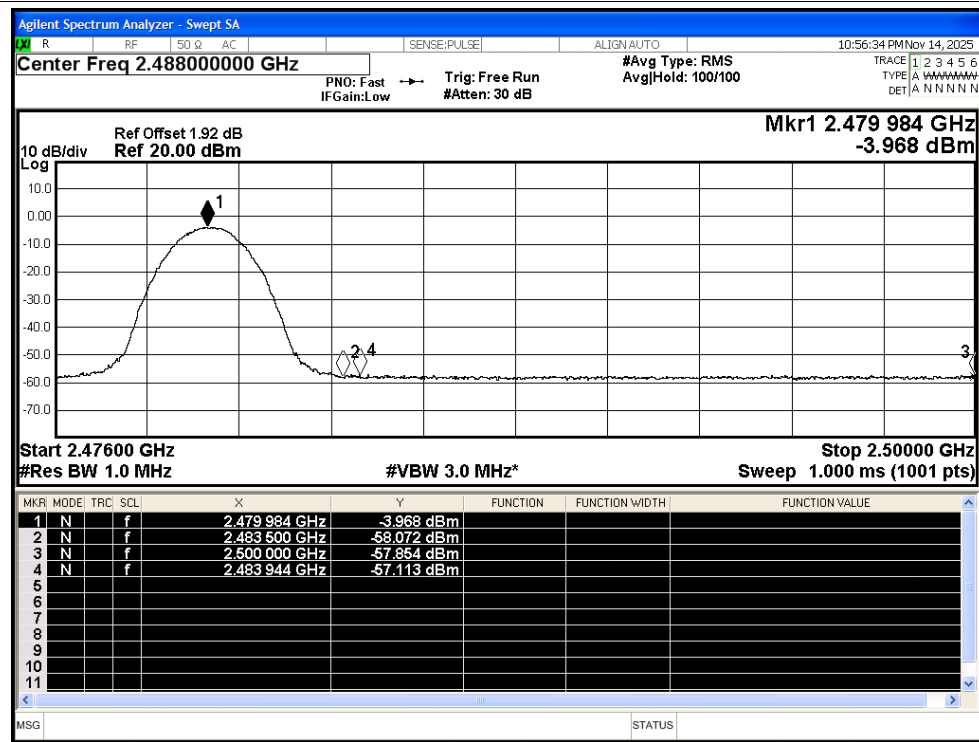


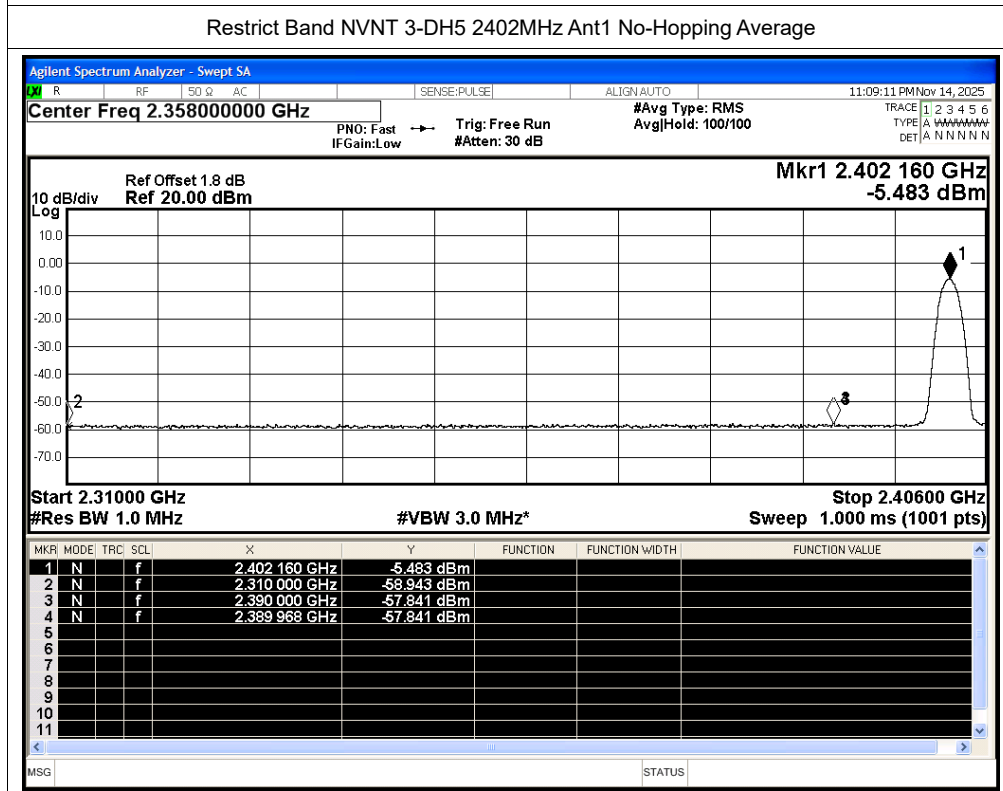
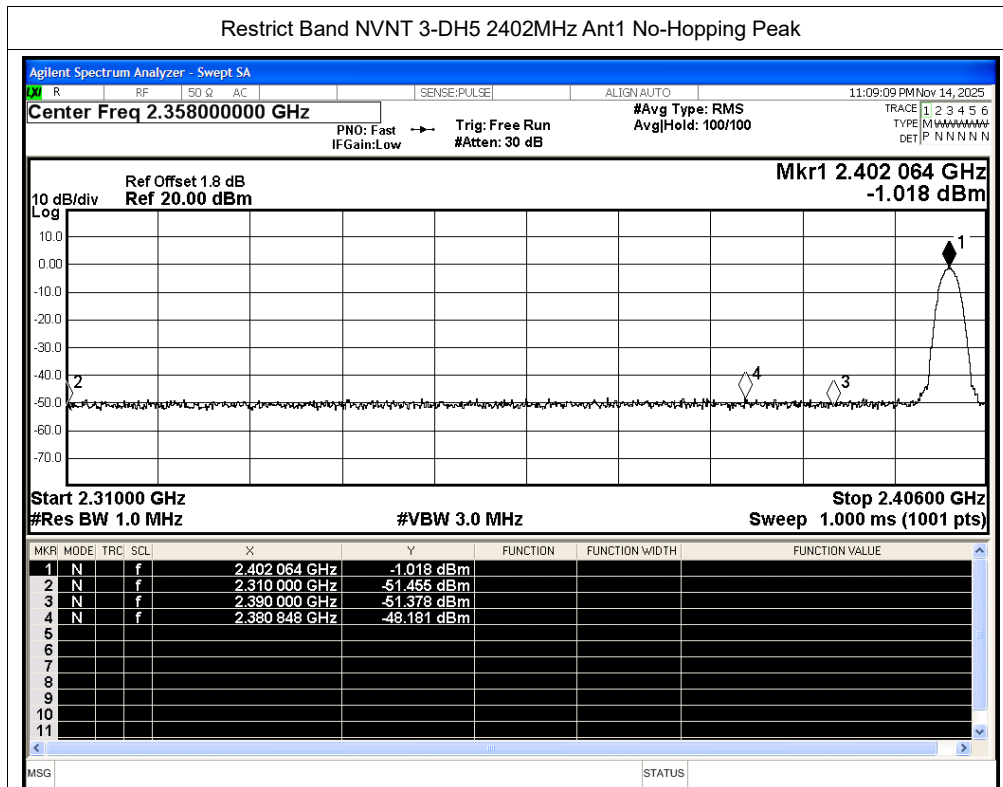


Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak

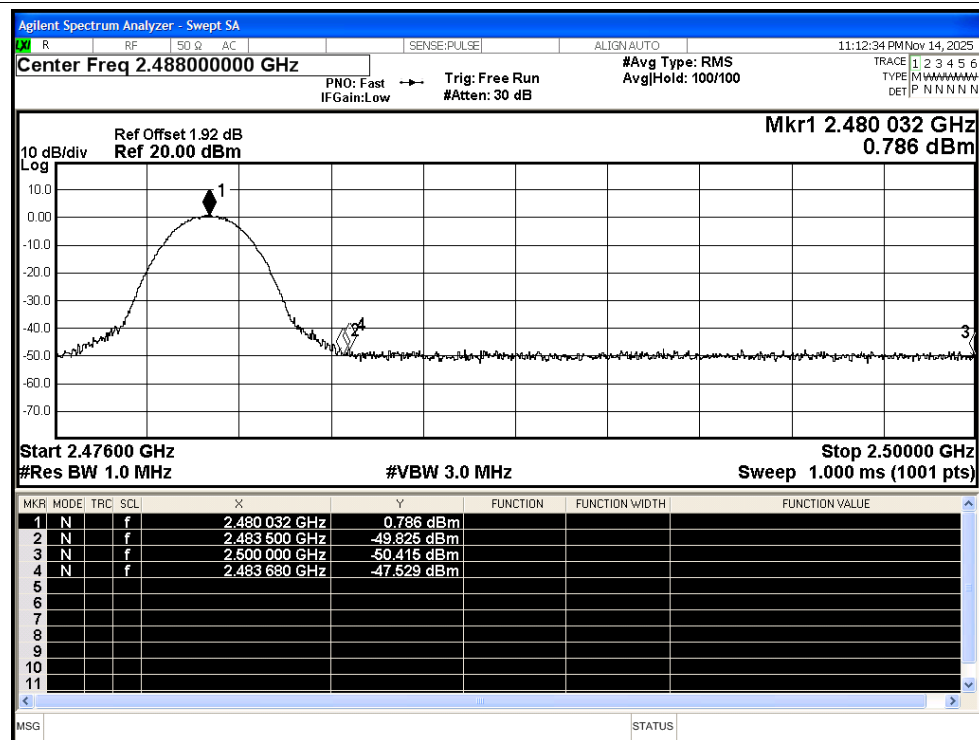


Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average





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



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

