

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: Floodlight Camera

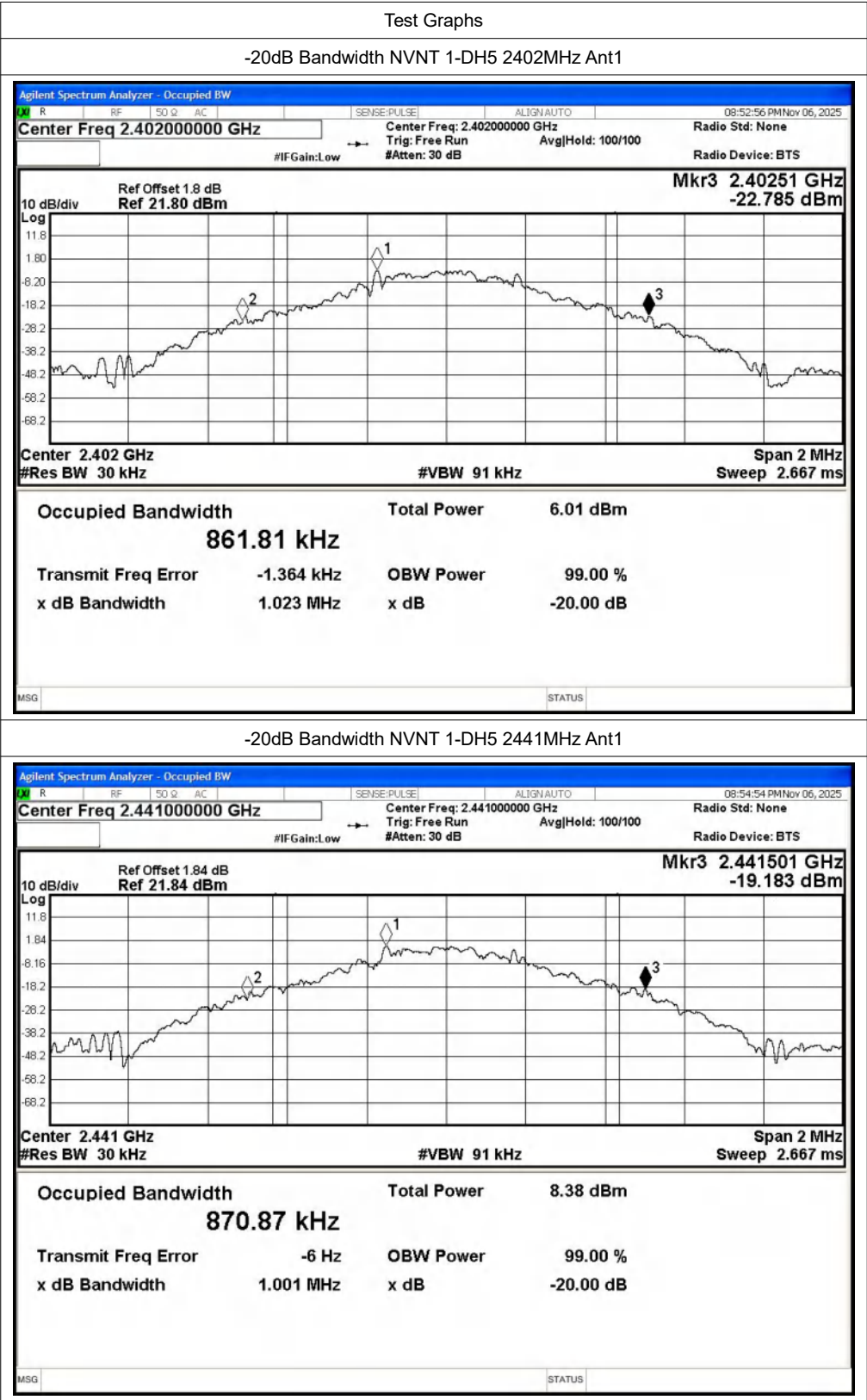
Test Model: BDB55SX-3

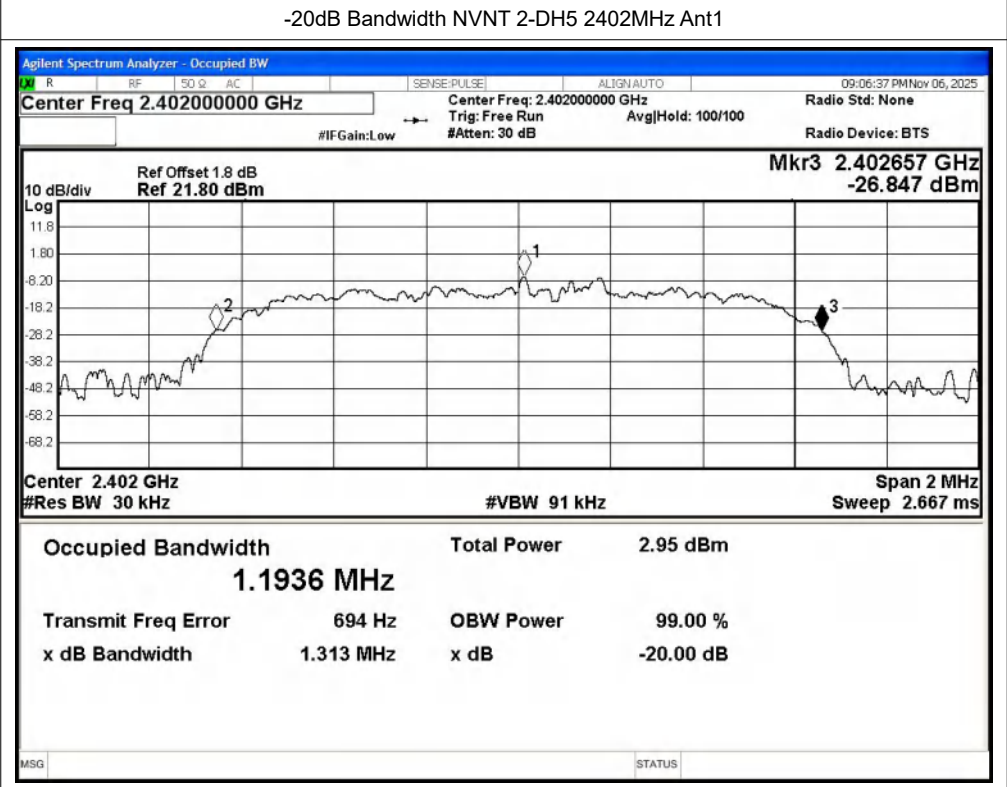
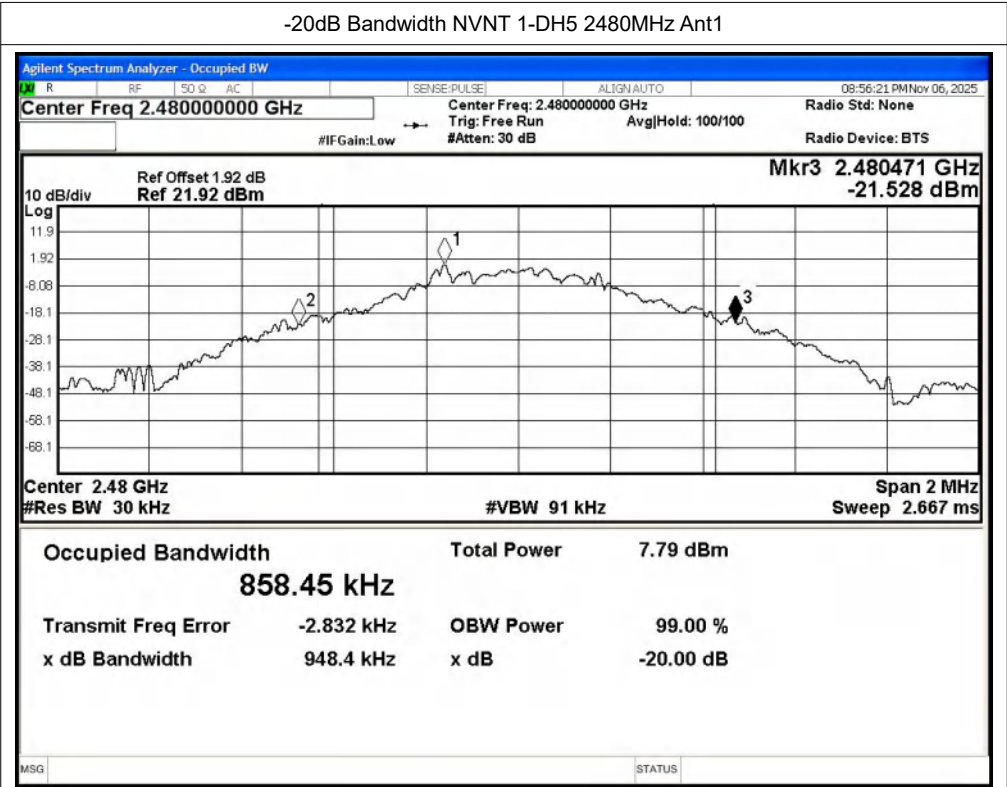
Environmental Conditions

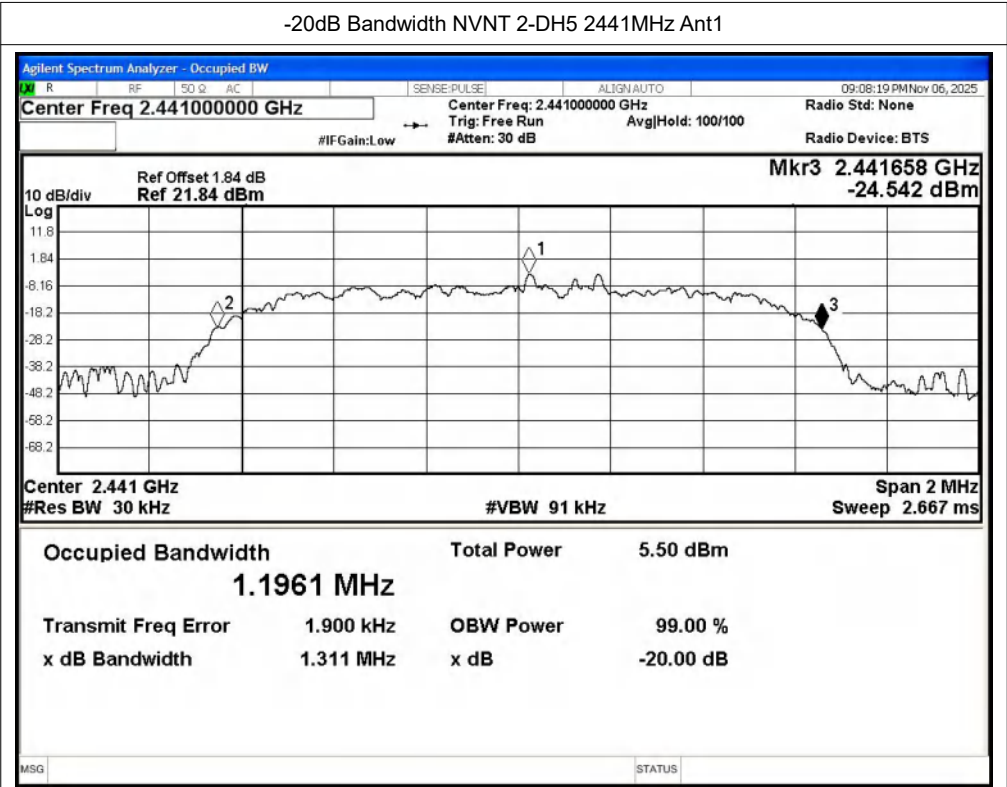
Temperature:	24.3°C
Relative Humidity:	53.8%
ATM Pressure:	100.0 kPa
Test Engineer:	Yongzhou Huang
Supervised by:	Fengliu Tang

A.1 -20dB Bandwidth

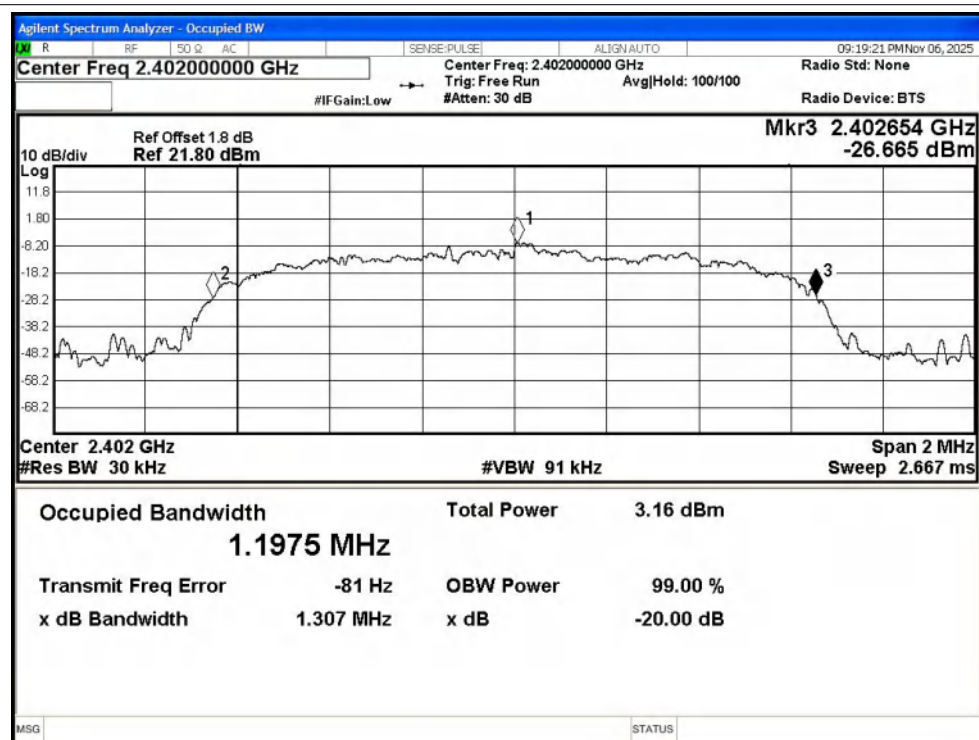
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	1.023	N/A	Pass
NVNT	1-DH5	2441	Ant1	1.001	N/A	Pass
NVNT	1-DH5	2480	Ant1	0.948	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.313	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.311	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.285	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.307	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.294	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.315	N/A	Pass



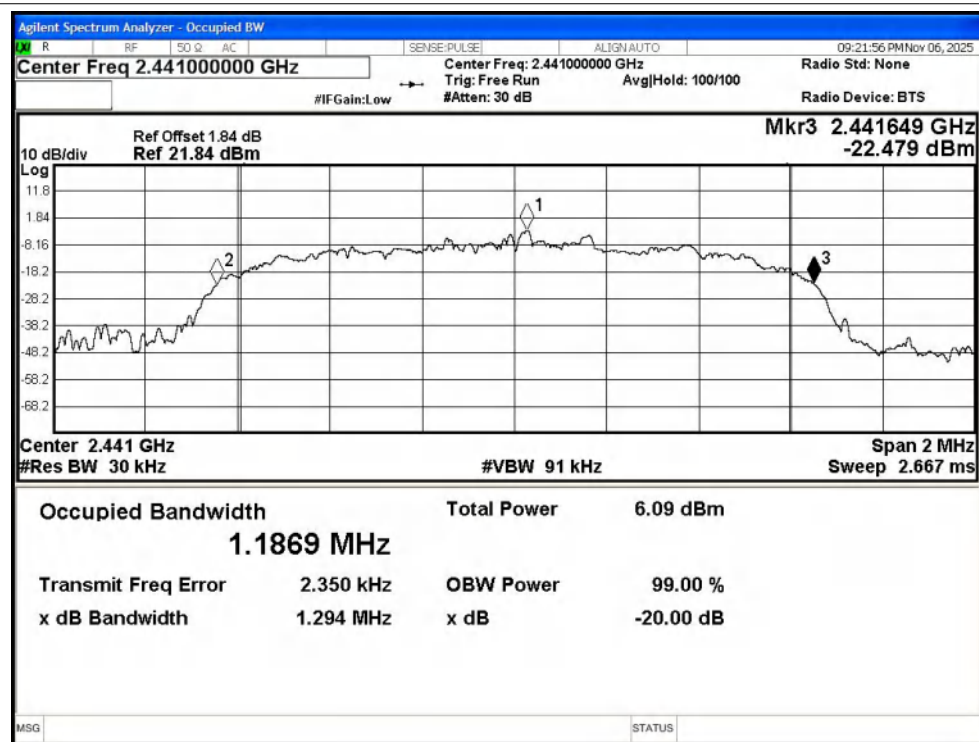


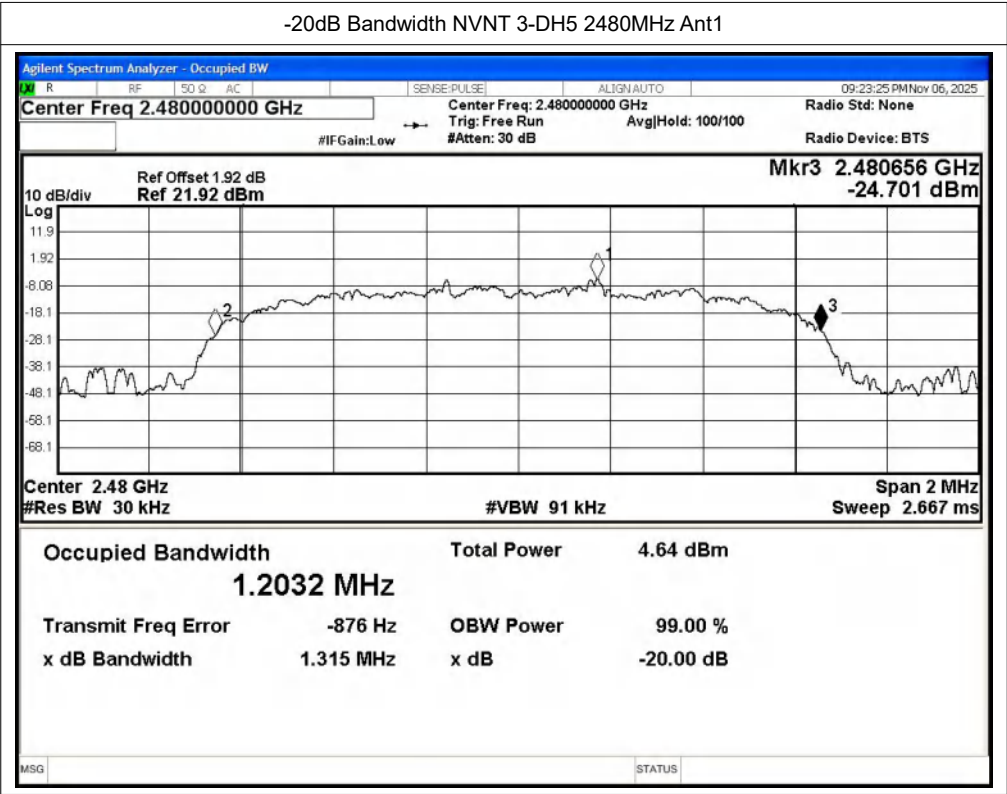


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1



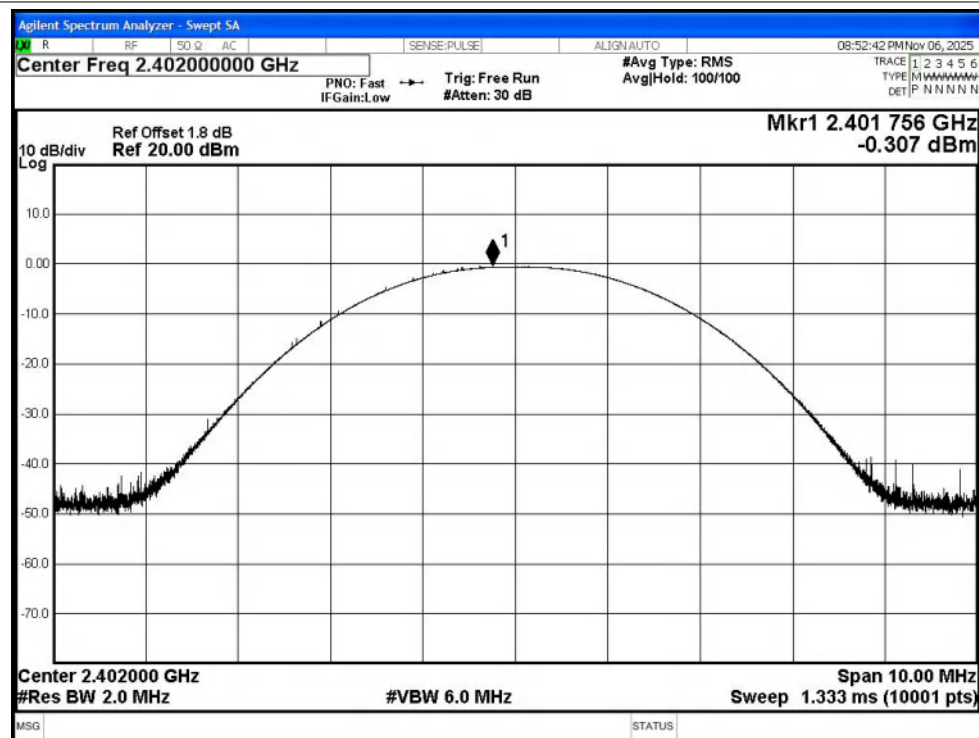


A.2 Maximum Peak Conducted Output Power

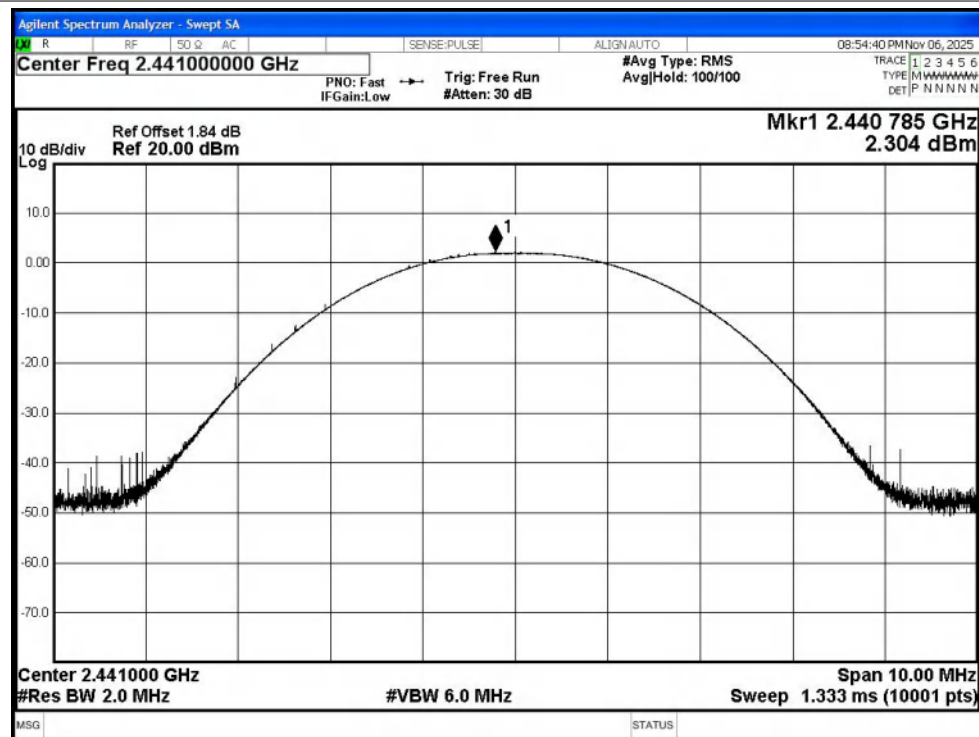
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-0.31	21	Pass
NVNT	1-DH5	2441	Ant1	2.30	21	Pass
NVNT	1-DH5	2480	Ant1	1.36	21	Pass
NVNT	2-DH5	2402	Ant1	-0.94	21	Pass
NVNT	2-DH5	2441	Ant1	1.54	21	Pass
NVNT	2-DH5	2480	Ant1	0.66	21	Pass
NVNT	3-DH5	2402	Ant1	-0.50	21	Pass
NVNT	3-DH5	2441	Ant1	1.97	21	Pass
NVNT	3-DH5	2480	Ant1	1.13	21	Pass

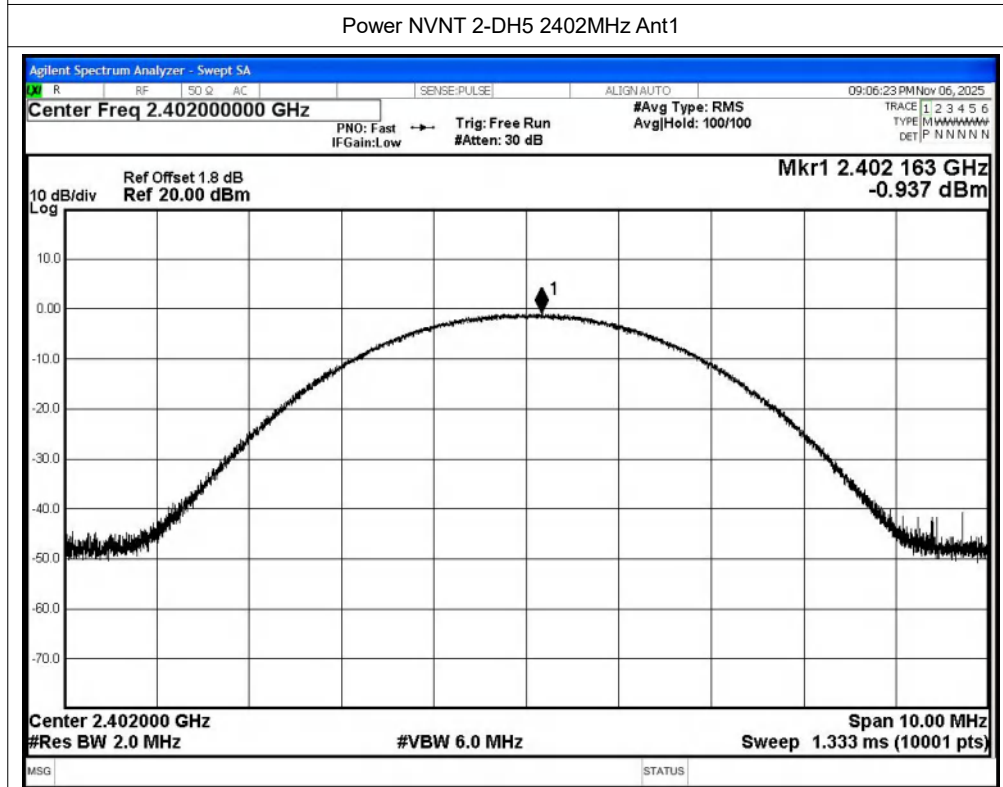
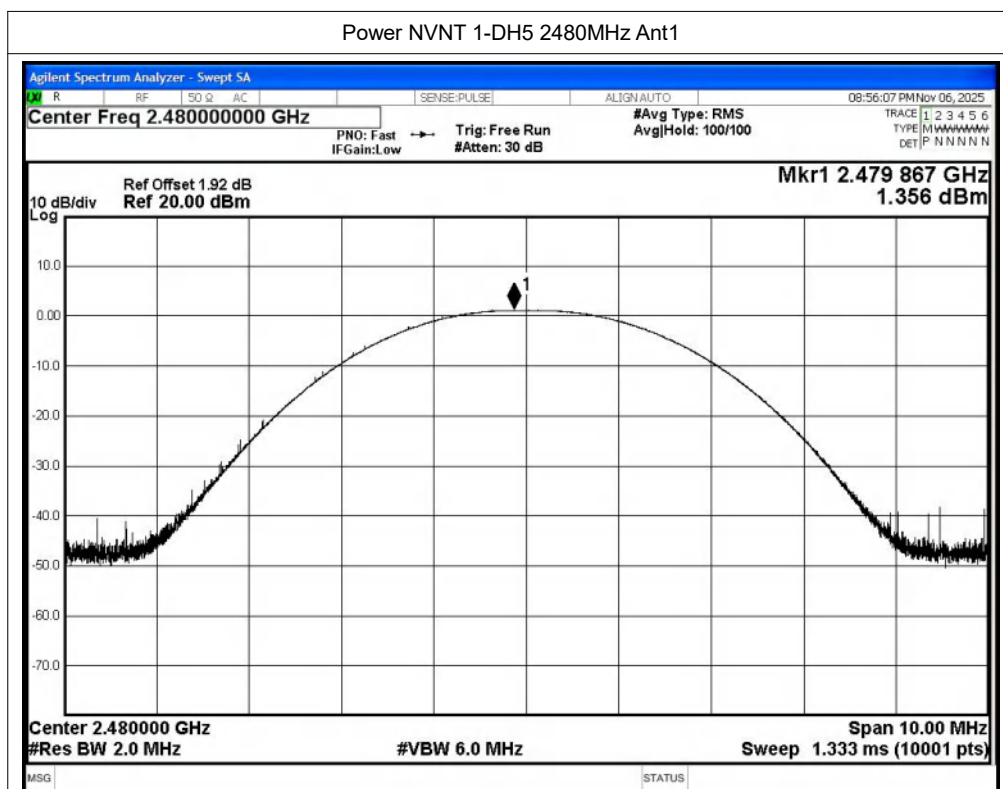
Test Graphs

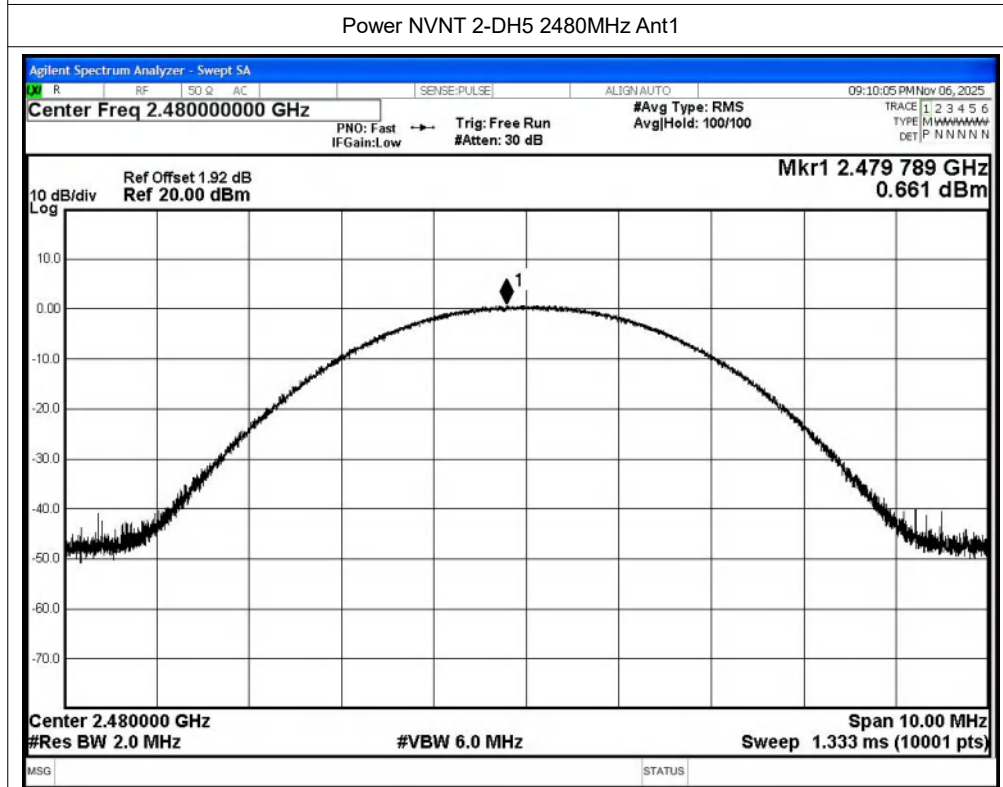
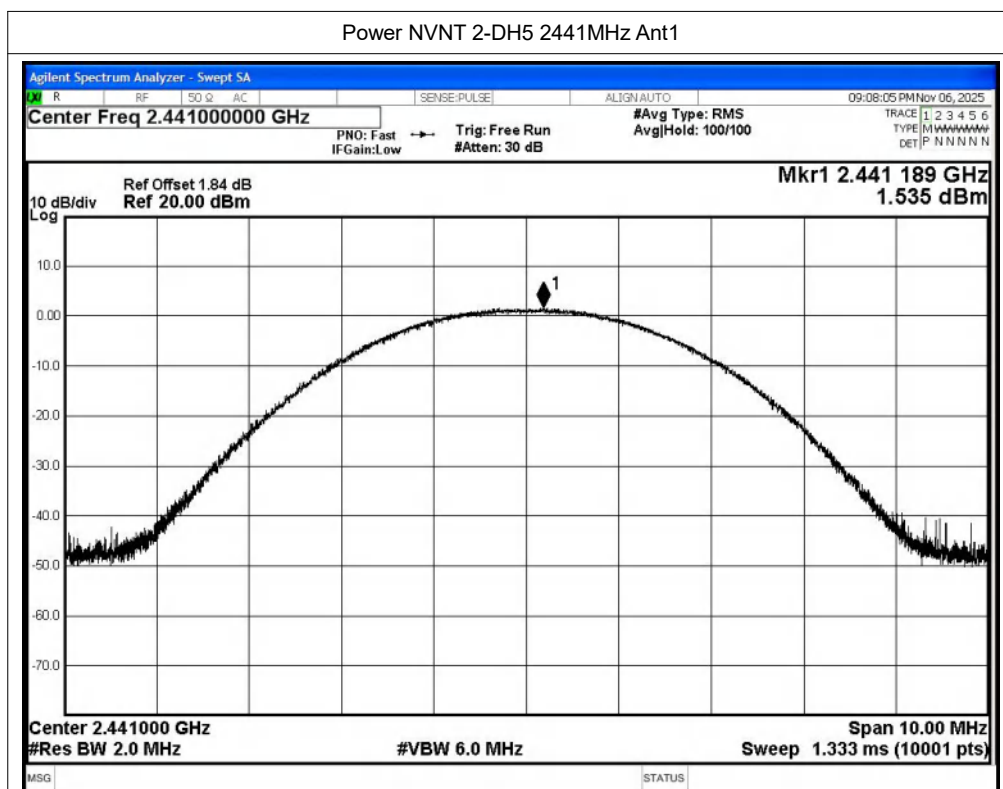
Power NVNT 1-DH5 2402MHz Ant1

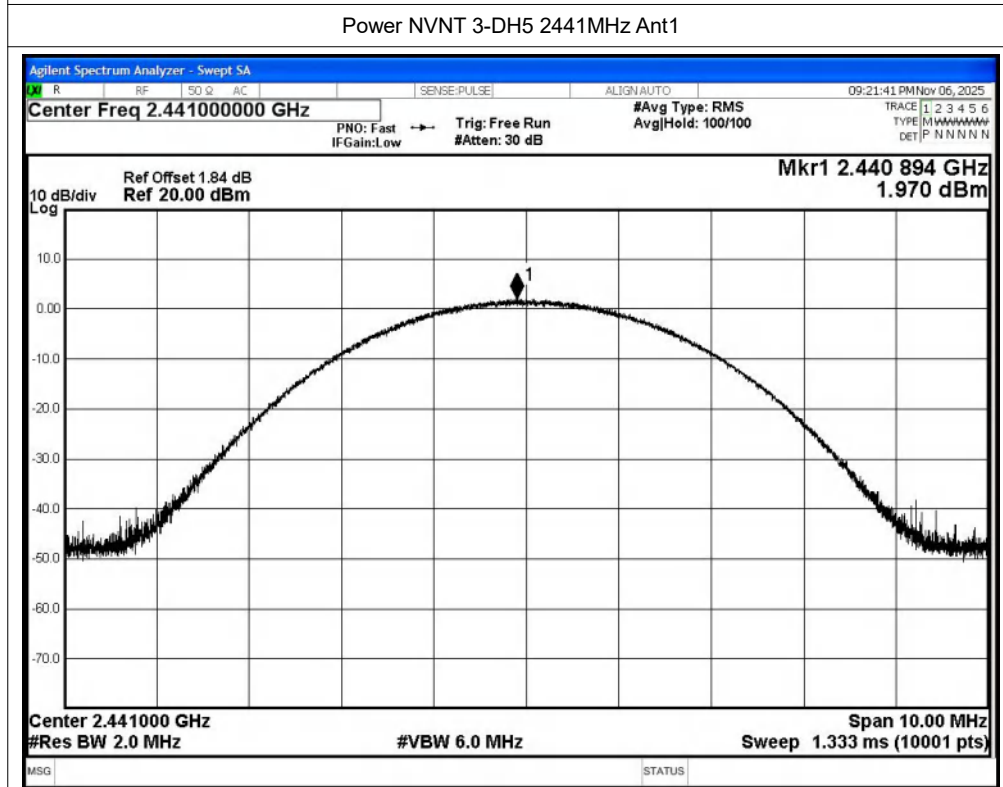
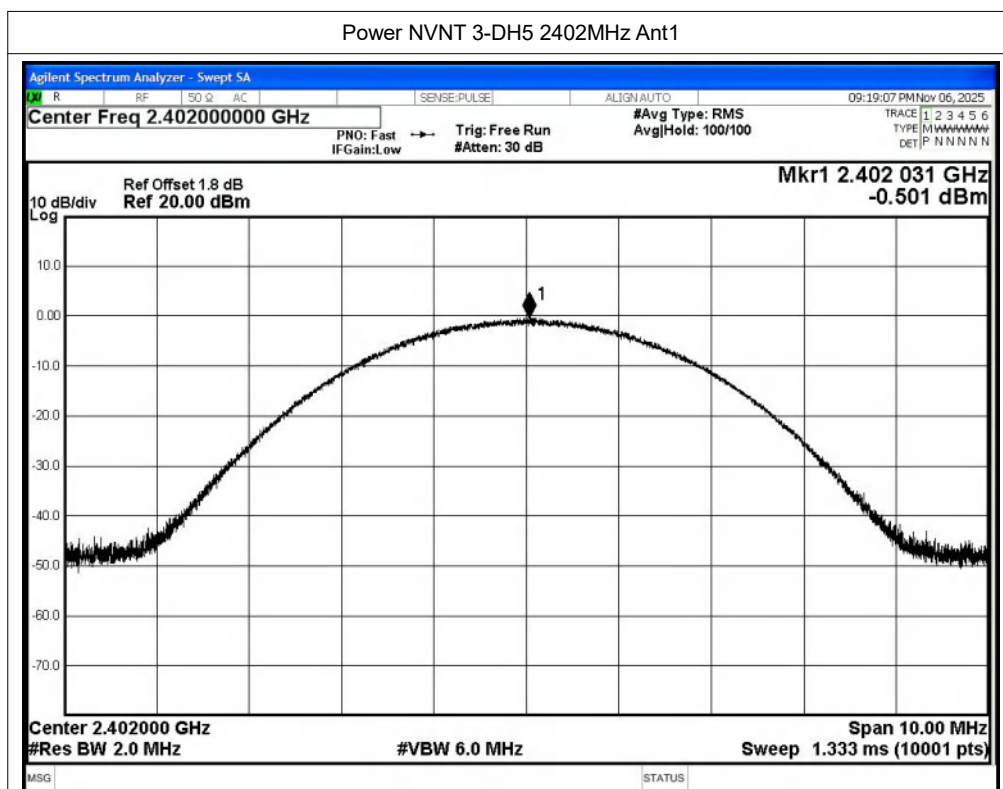


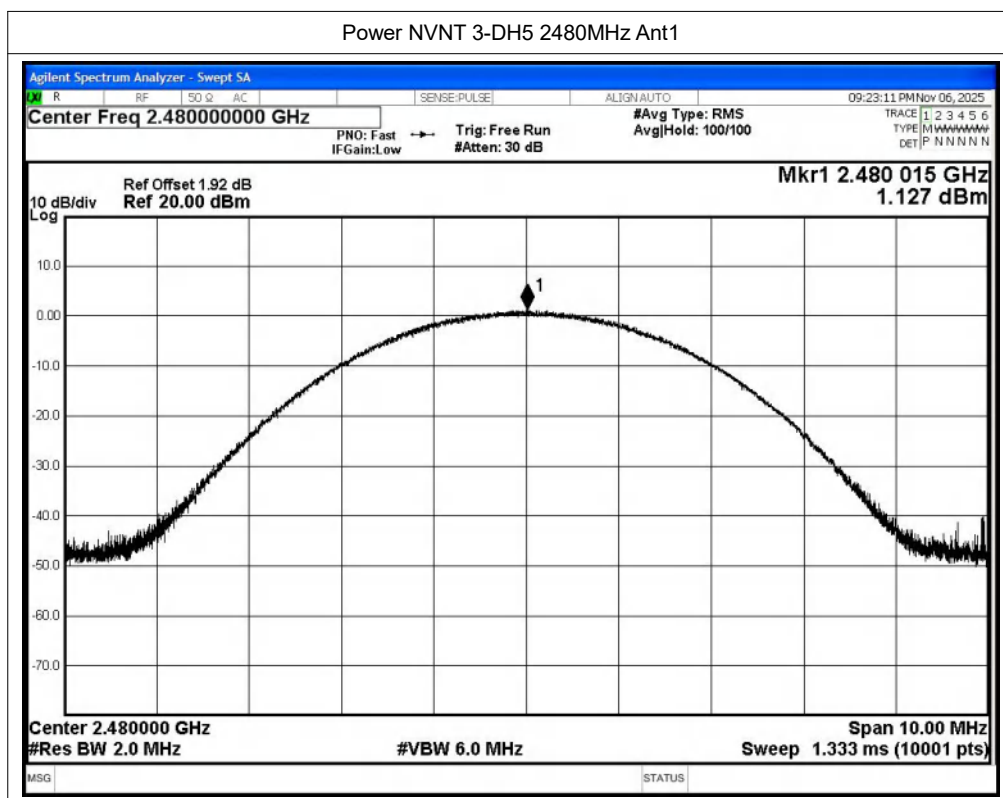
Power NVNT 1-DH5 2441MHz Ant1









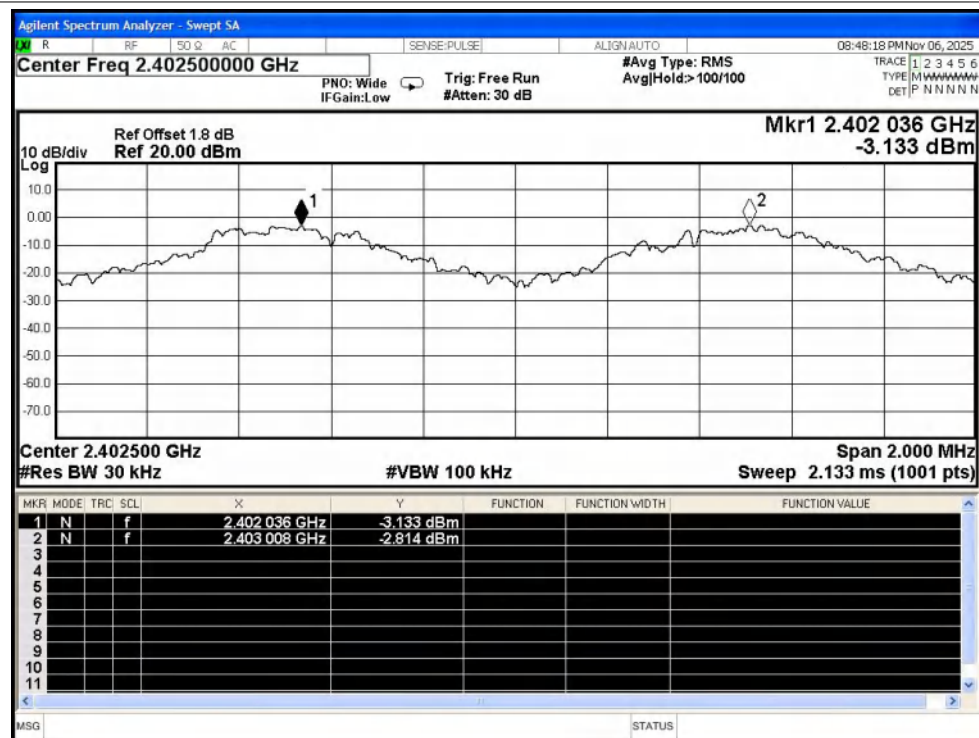


A.3 Carrier Frequencies Separation

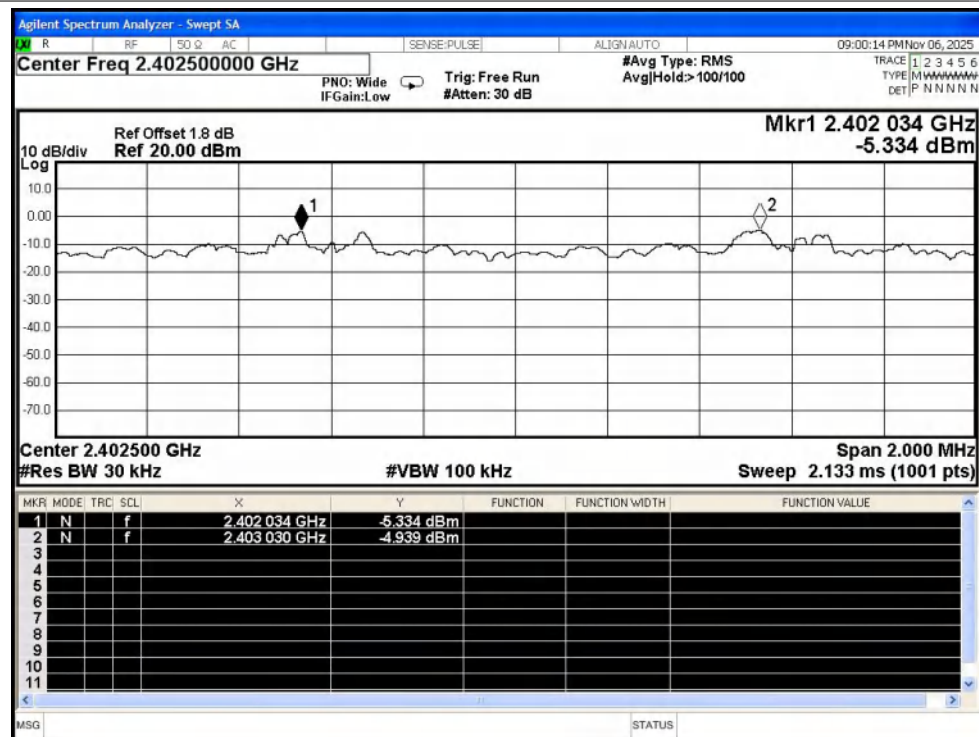
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.036	2403.008	0.972	0.025	Pass
NVNT	2-DH5	Ant1	2402.034	2403.03	0.996	0.025	Pass
NVNT	3-DH5	Ant1	2402.028	2403.03	1.002	0.025	Pass

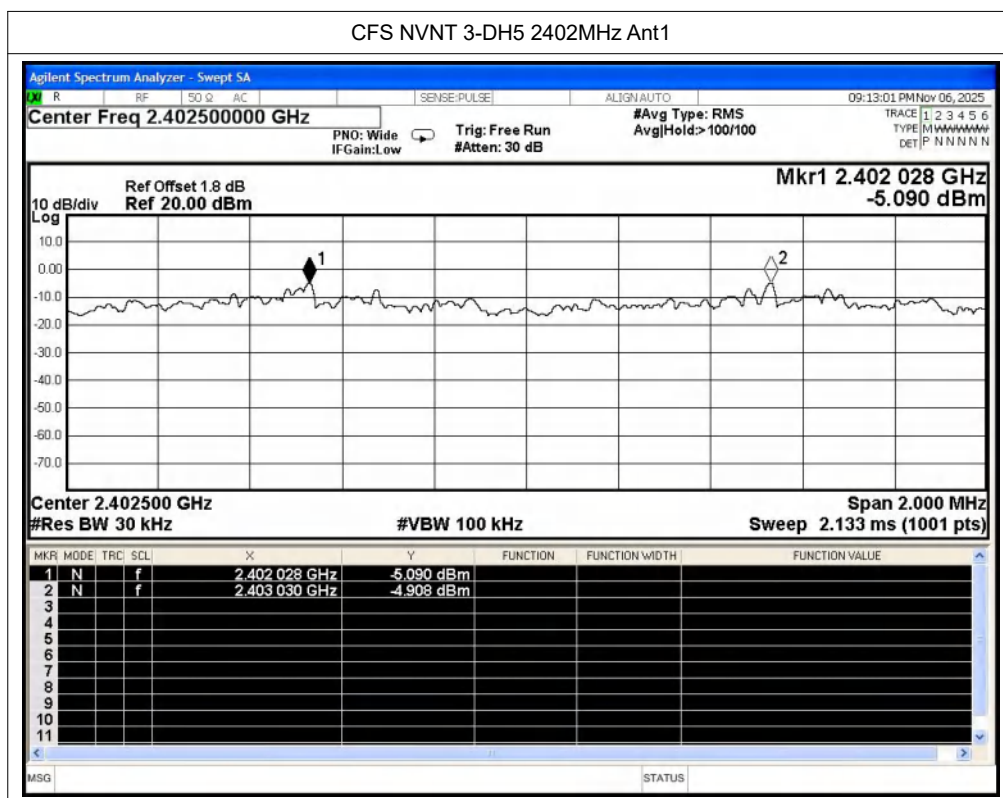
Test Graphs

CFS NVNT 1-DH5 2402MHz Ant1



CFS NVNT 2-DH5 2402MHz Ant1



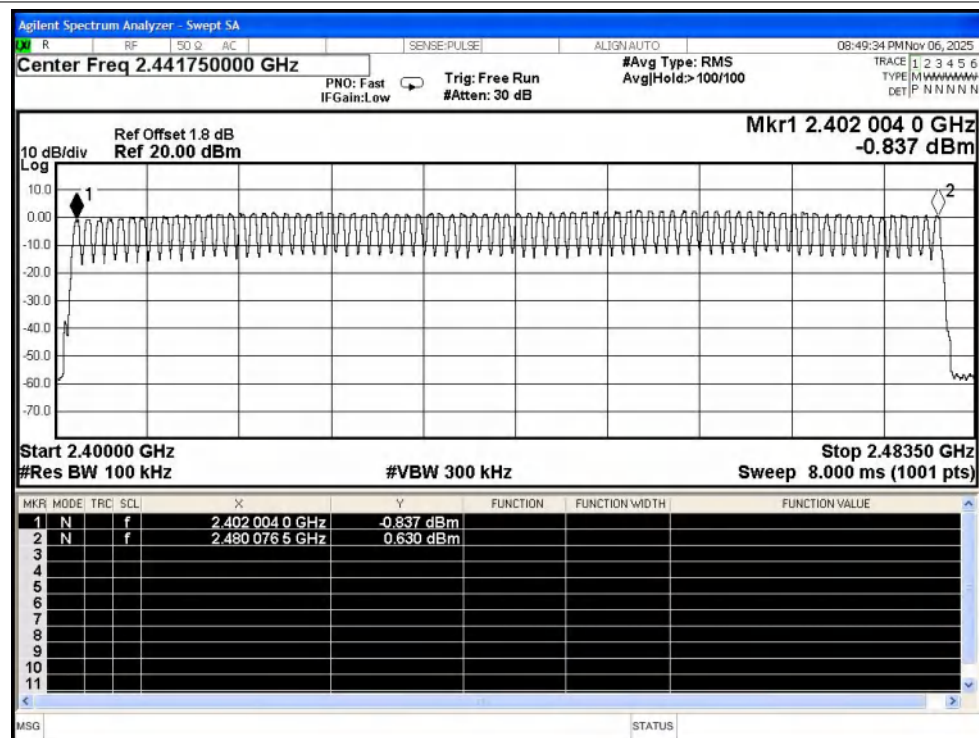


A.5 Number of Hopping Channel

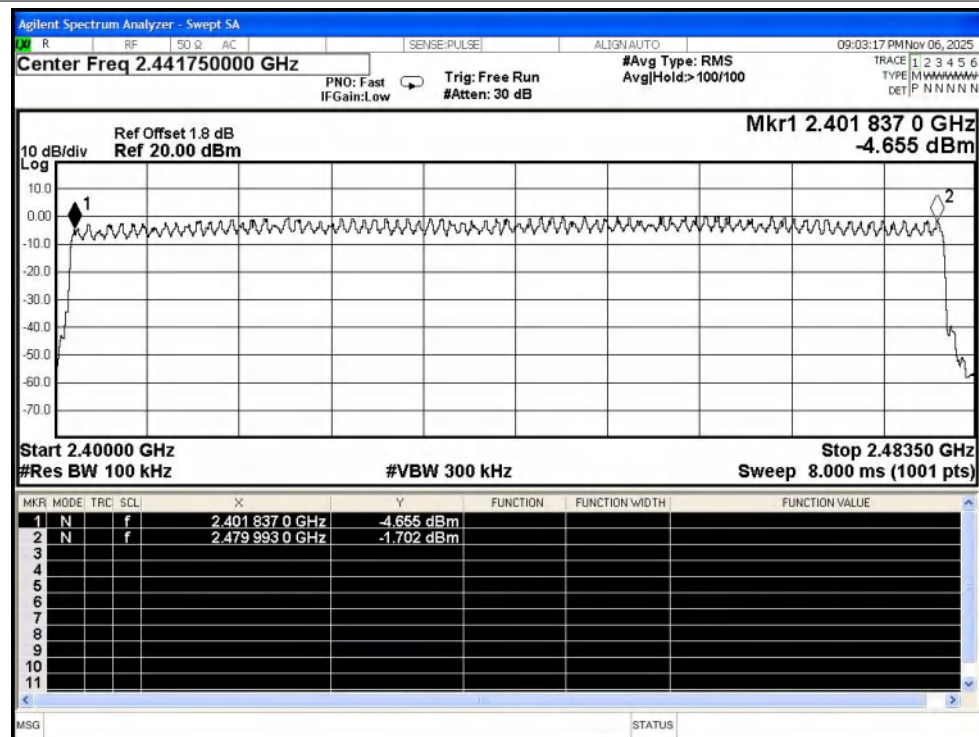
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass

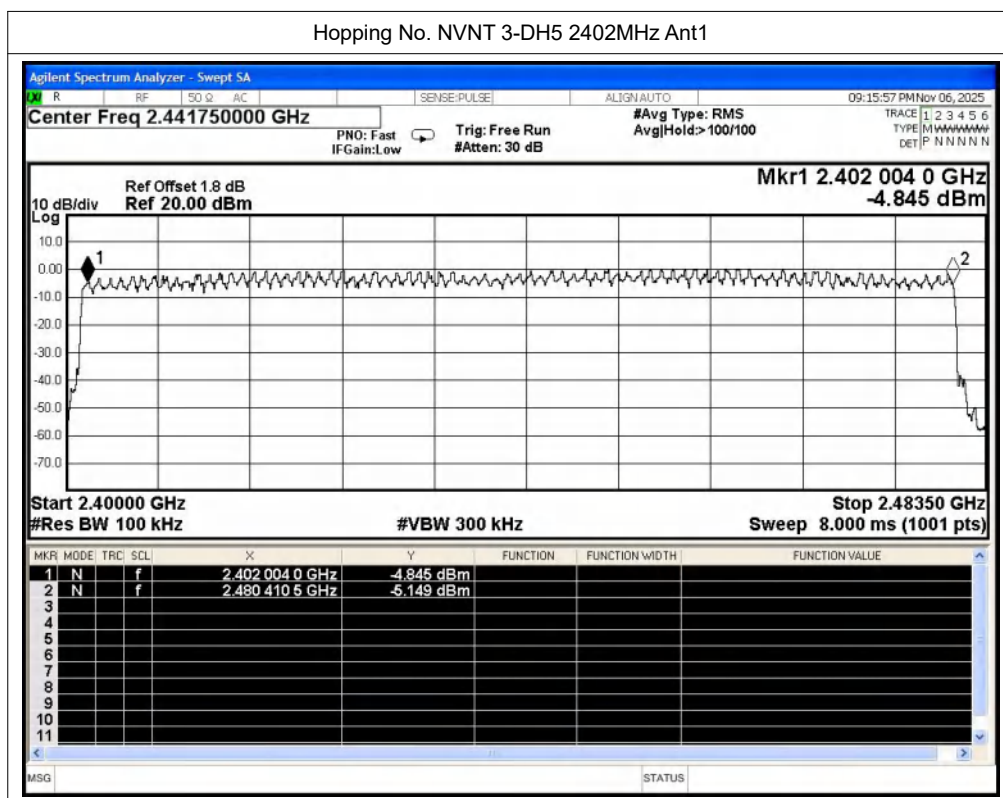
Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



Hopping No. NVNT 2-DH5 2402MHz Ant1



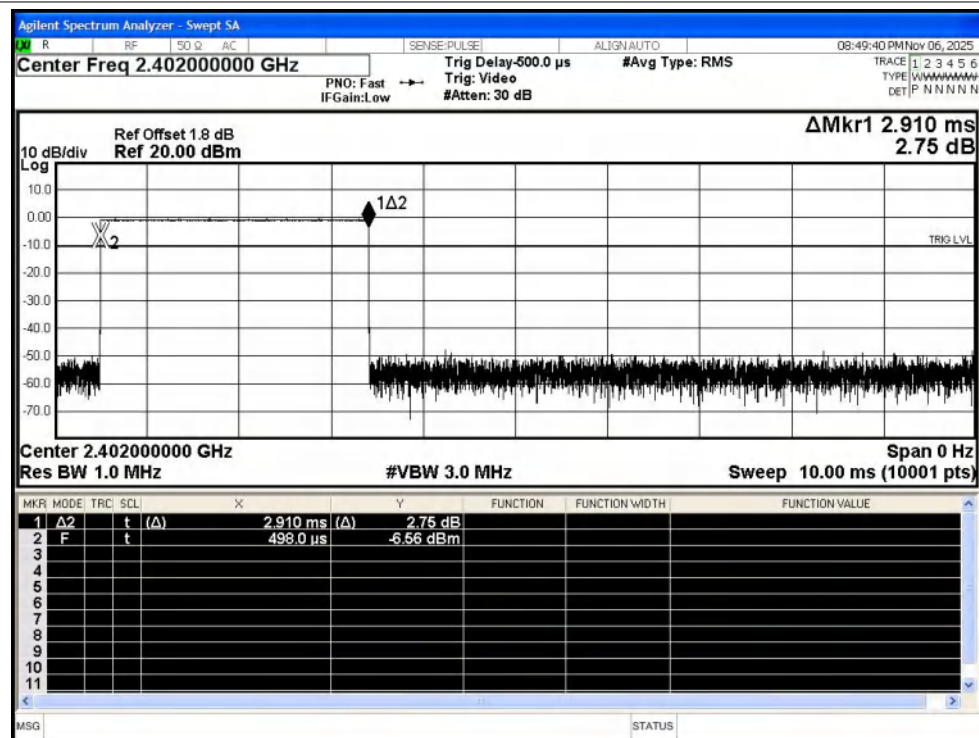


A.4 Dwell Time

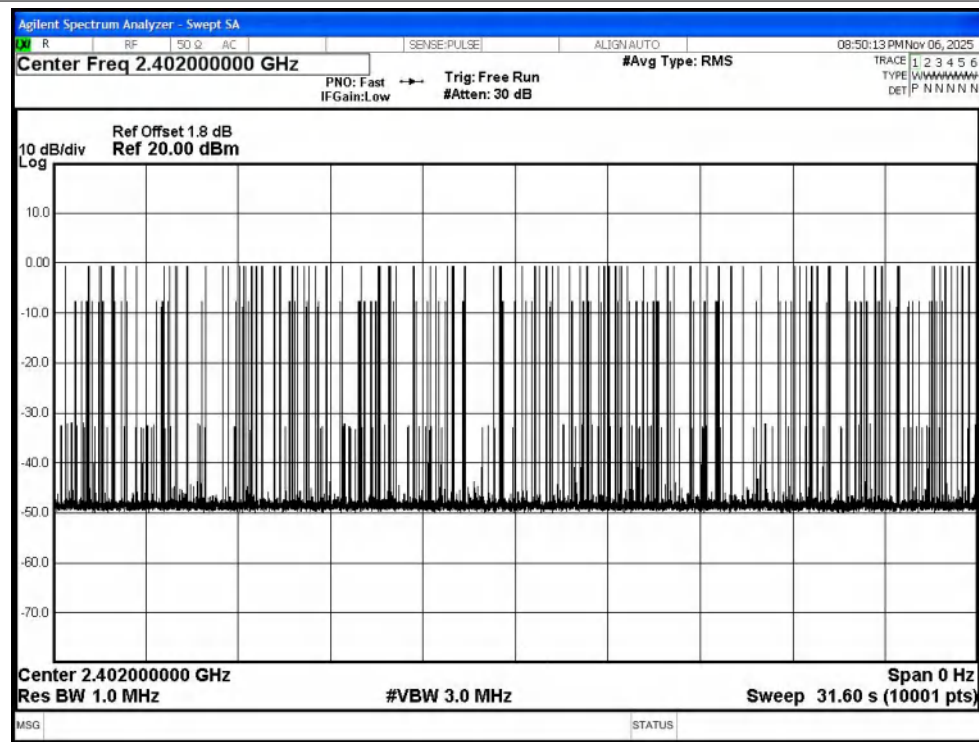
Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH5	2402	Ant1	2.91	328.83	113	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.898	307.188	106	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.897	318.67	110	31600	400	Pass

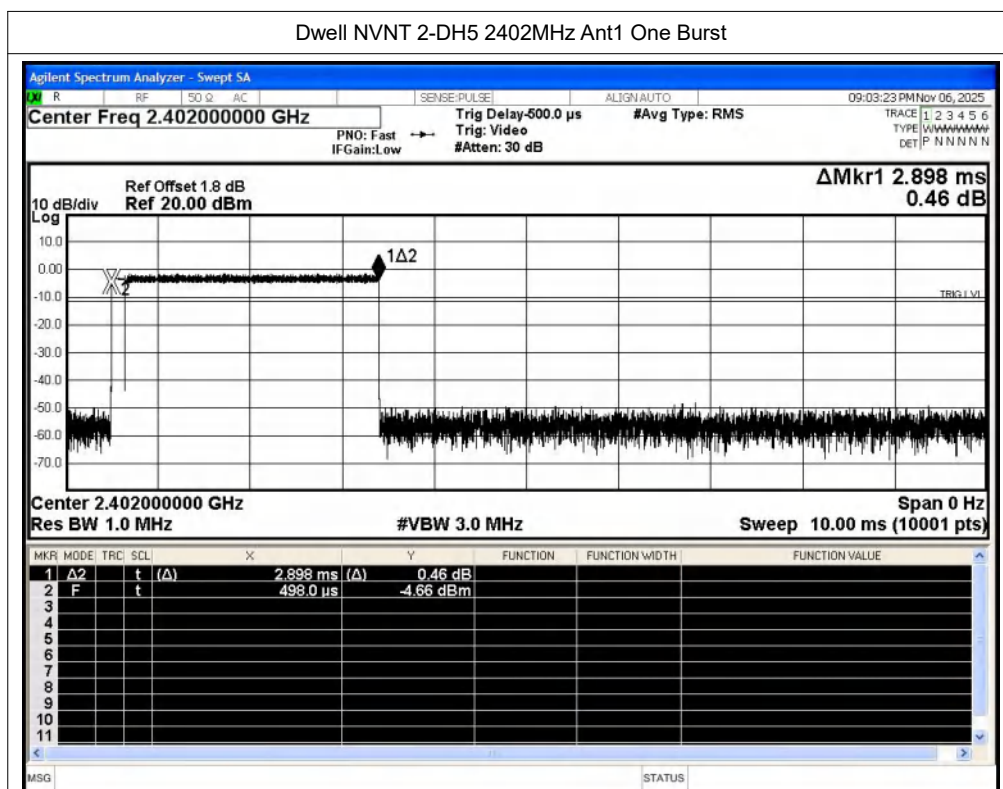
Test Graphs

Dwell NVNT 1-DH5 2402MHz Ant1 One Burst

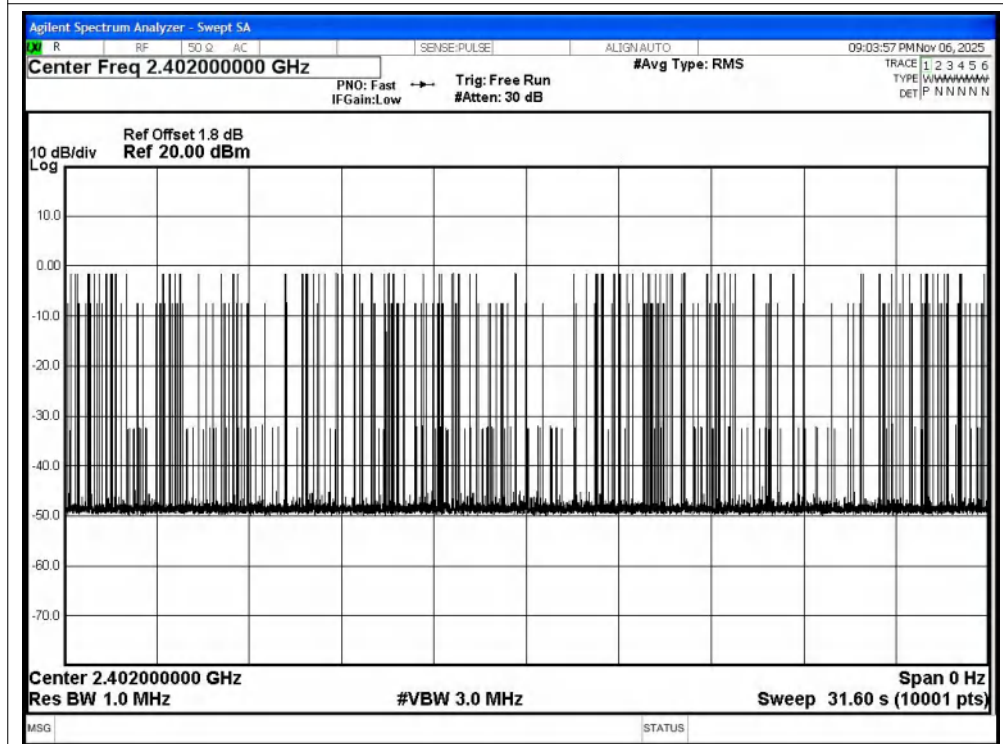


Dwell NVNT 1-DH5 2402MHz Ant1 Accumulated

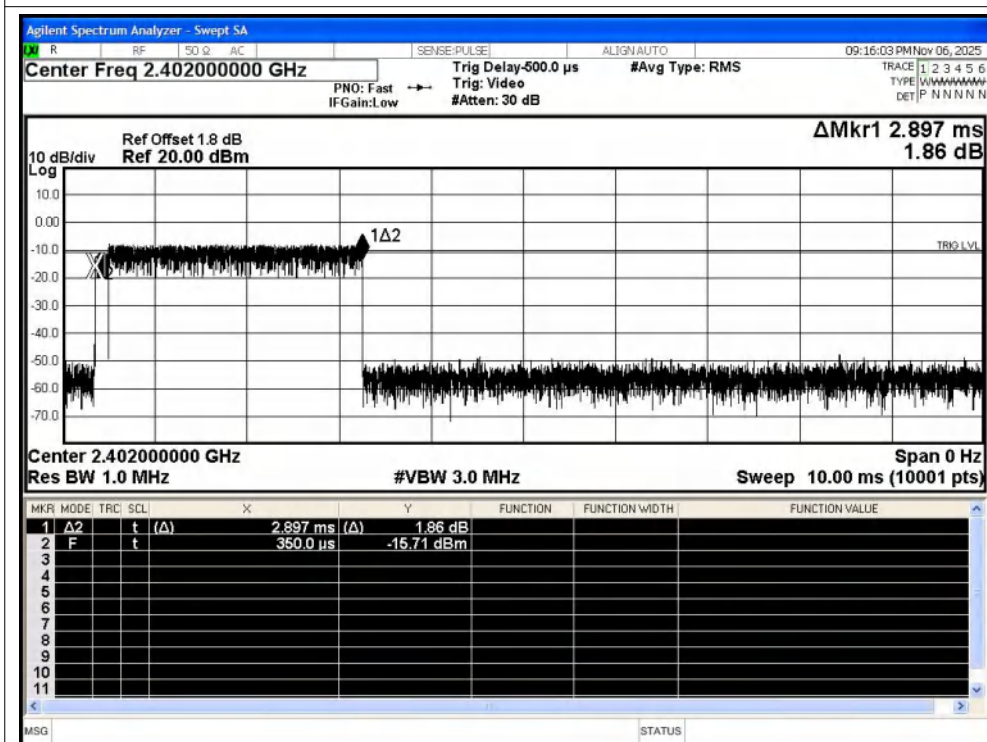




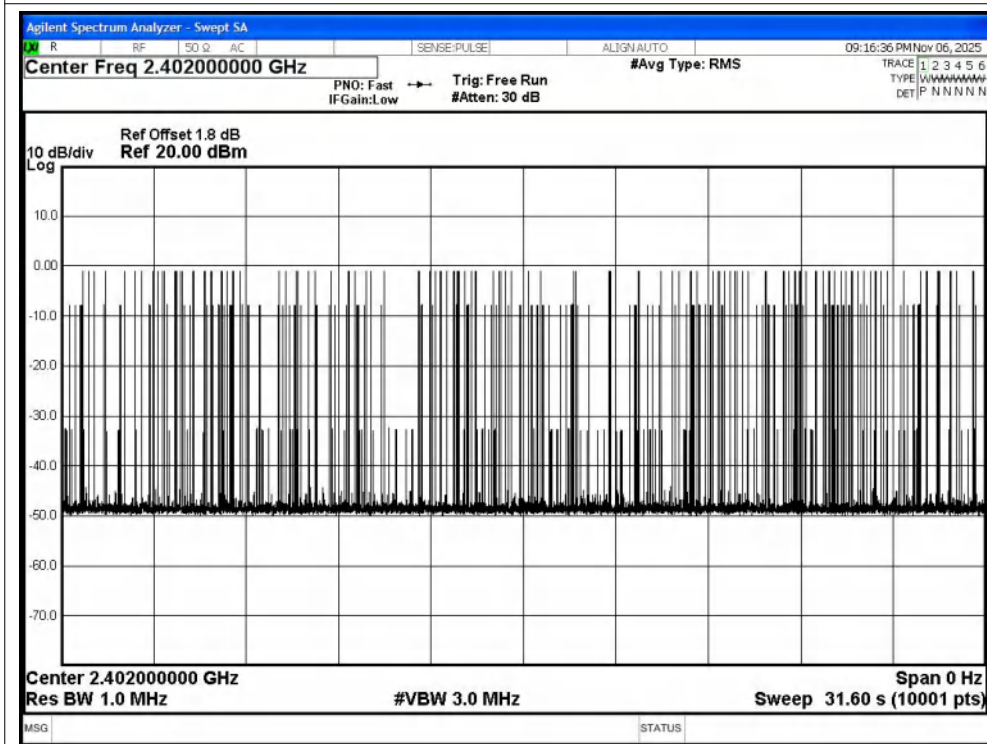
Dwell NVNT 2-DH5 2402MHz Ant1 Accumulated



Dwell NVNT 3-DH5 2402MHz Ant1 One Burst

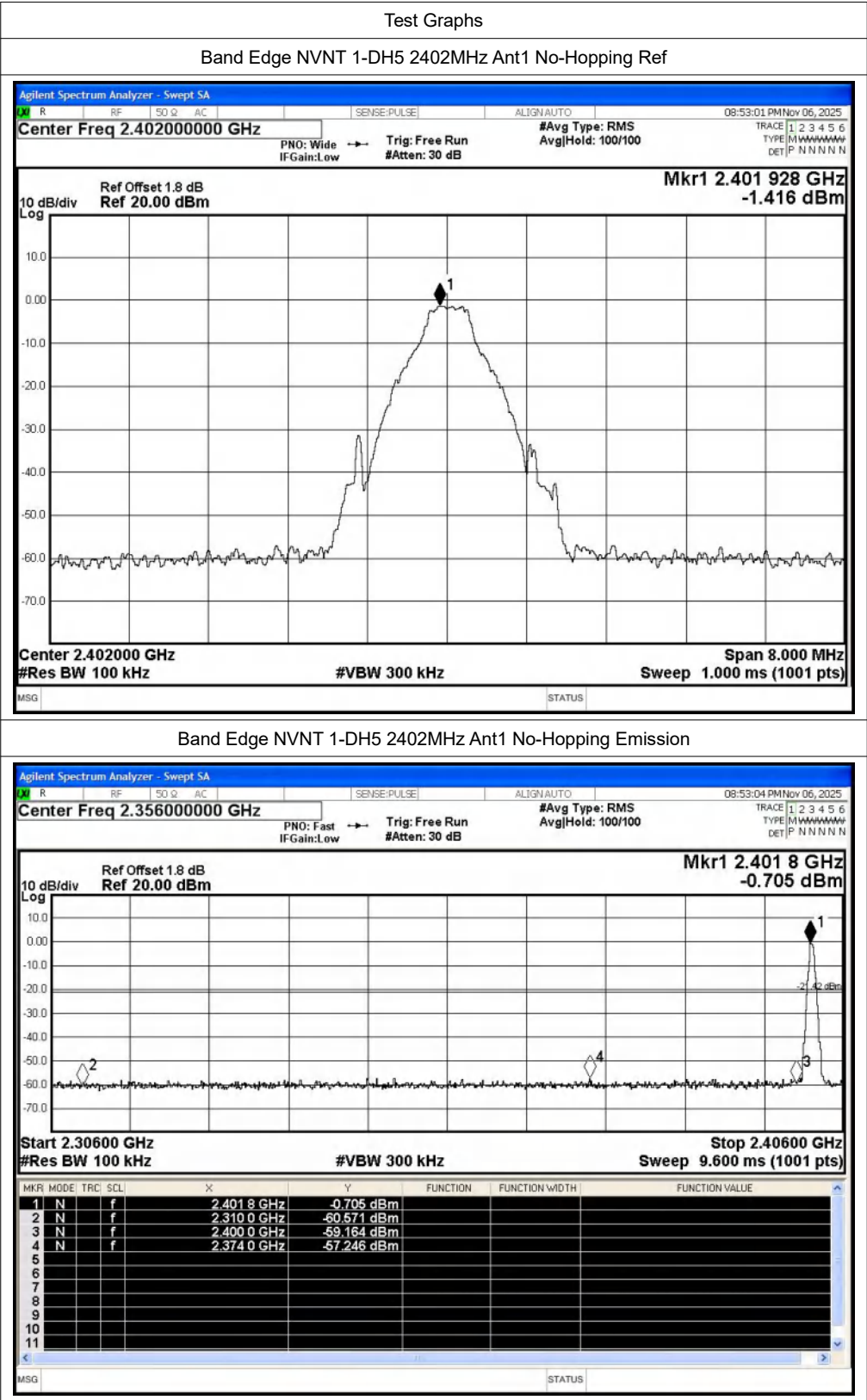


Dwell NVNT 3-DH5 2402MHz Ant1 Accumulated

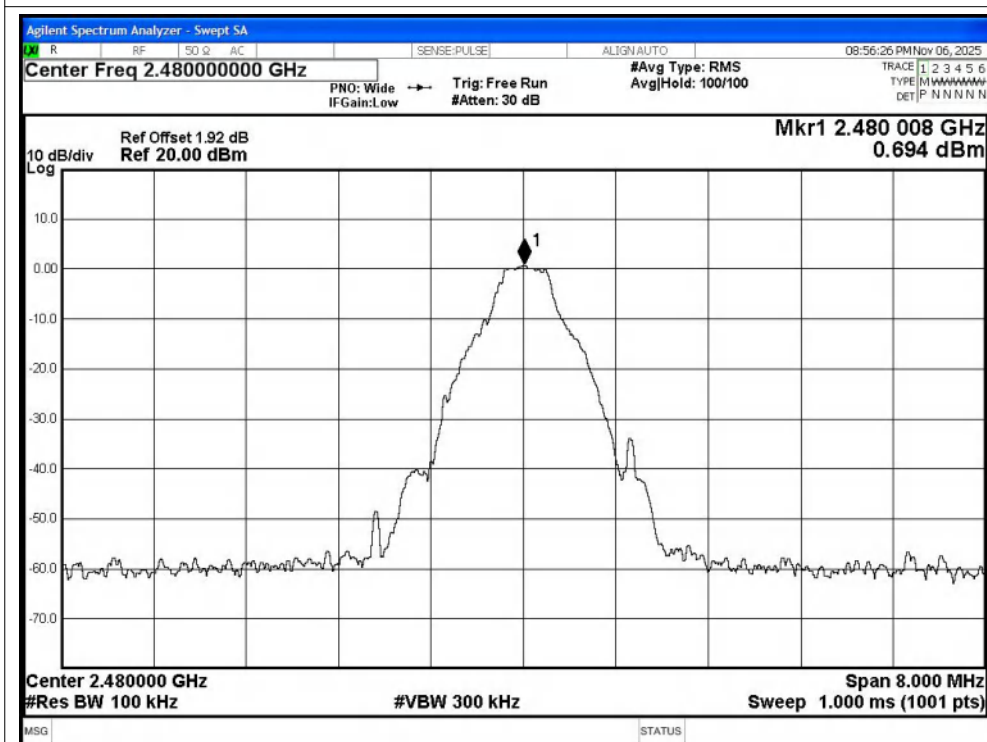


A.6 Band Edge

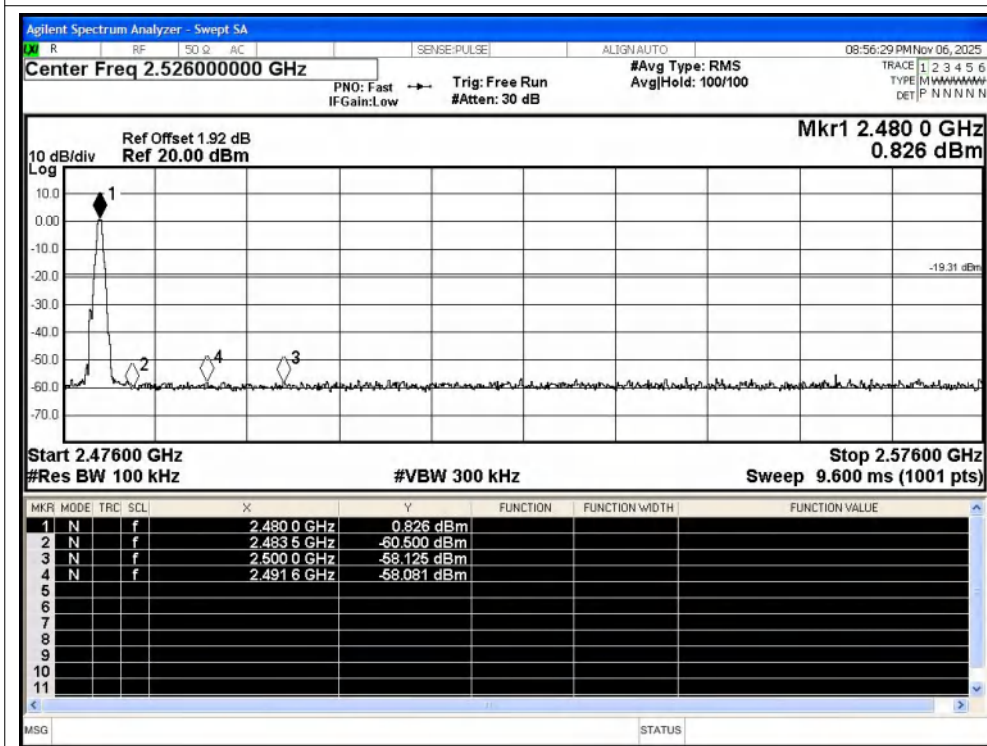
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-55.83	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-58.78	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-52.29	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-55.09	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-51.44	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-55.13	-20	Pass

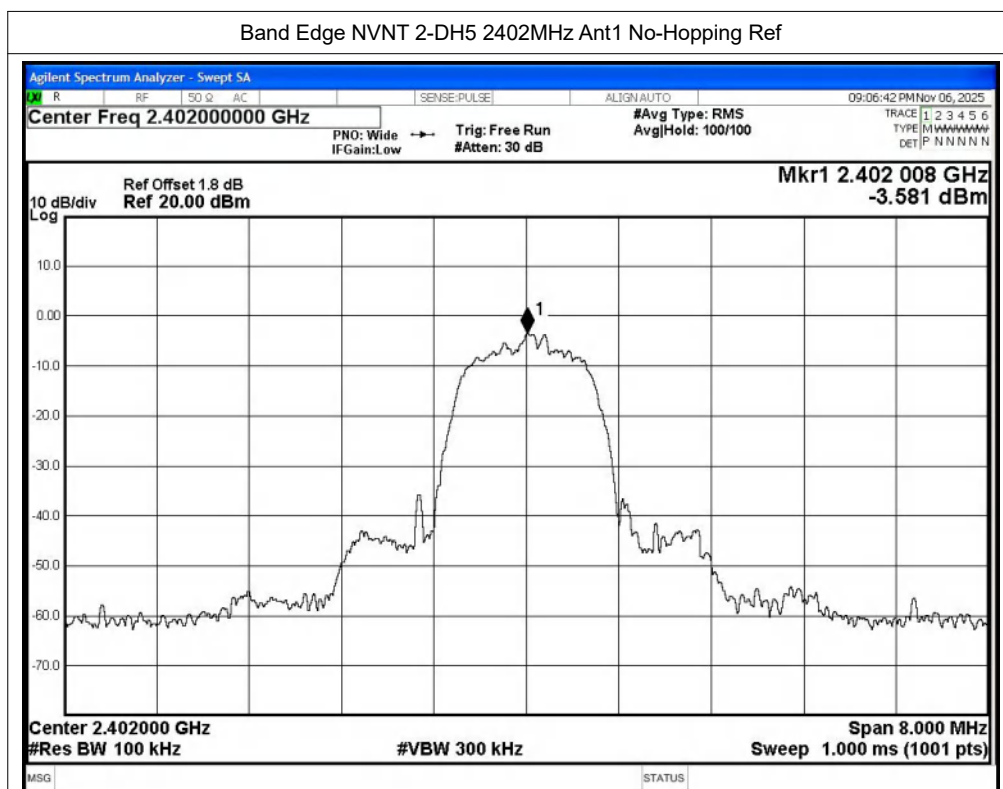


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

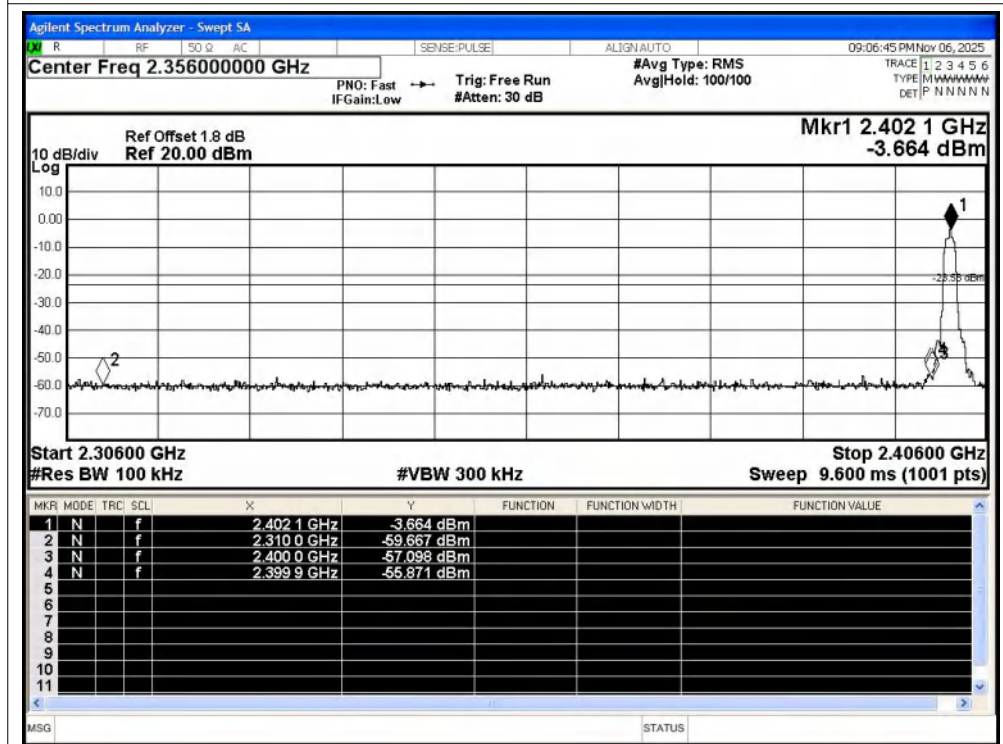


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

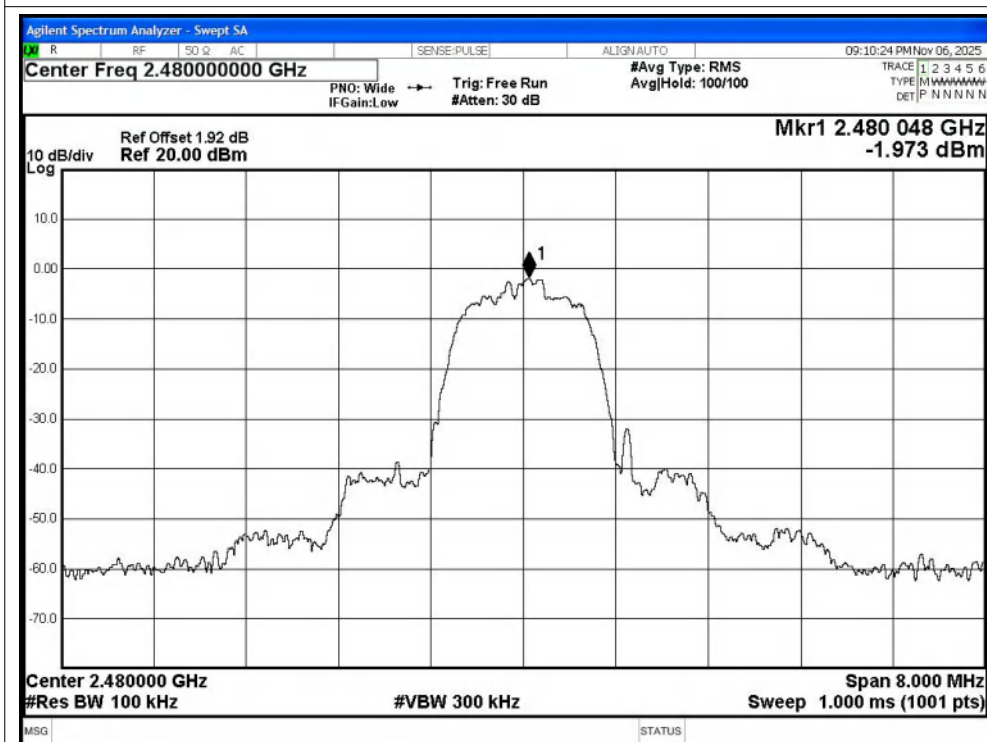




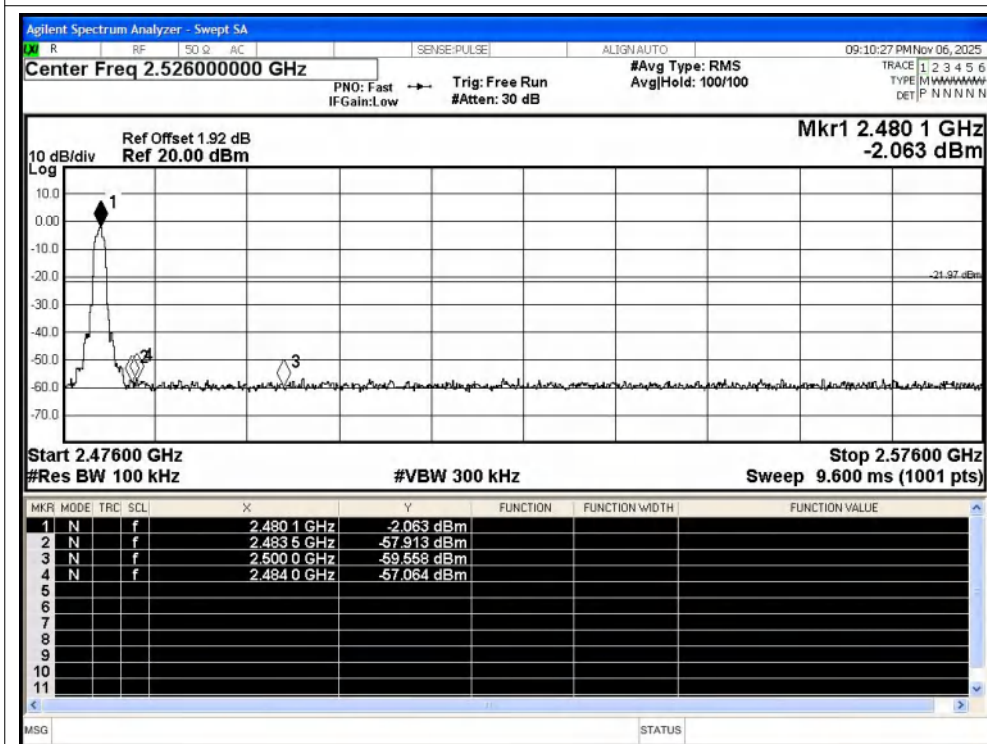
Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

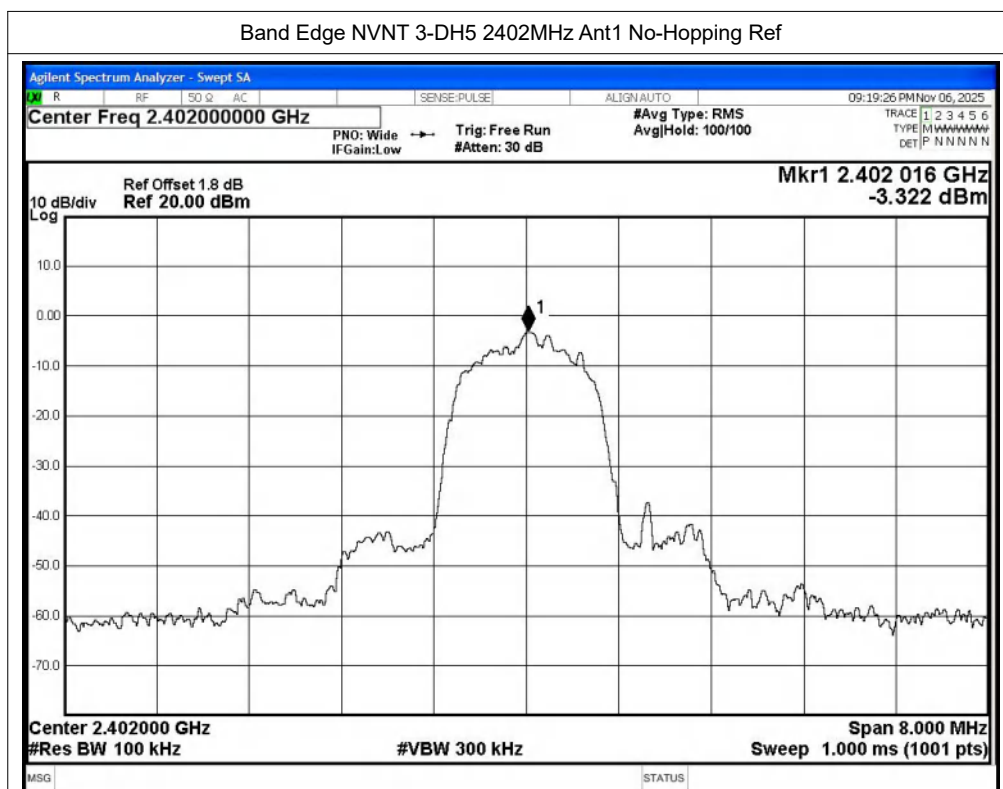


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

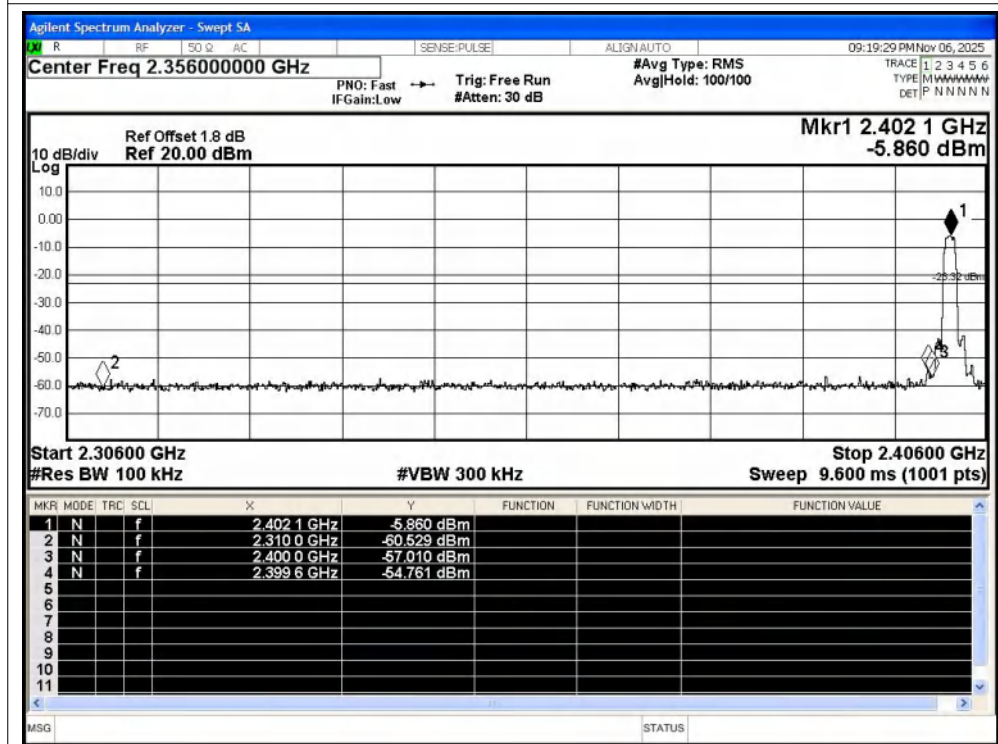


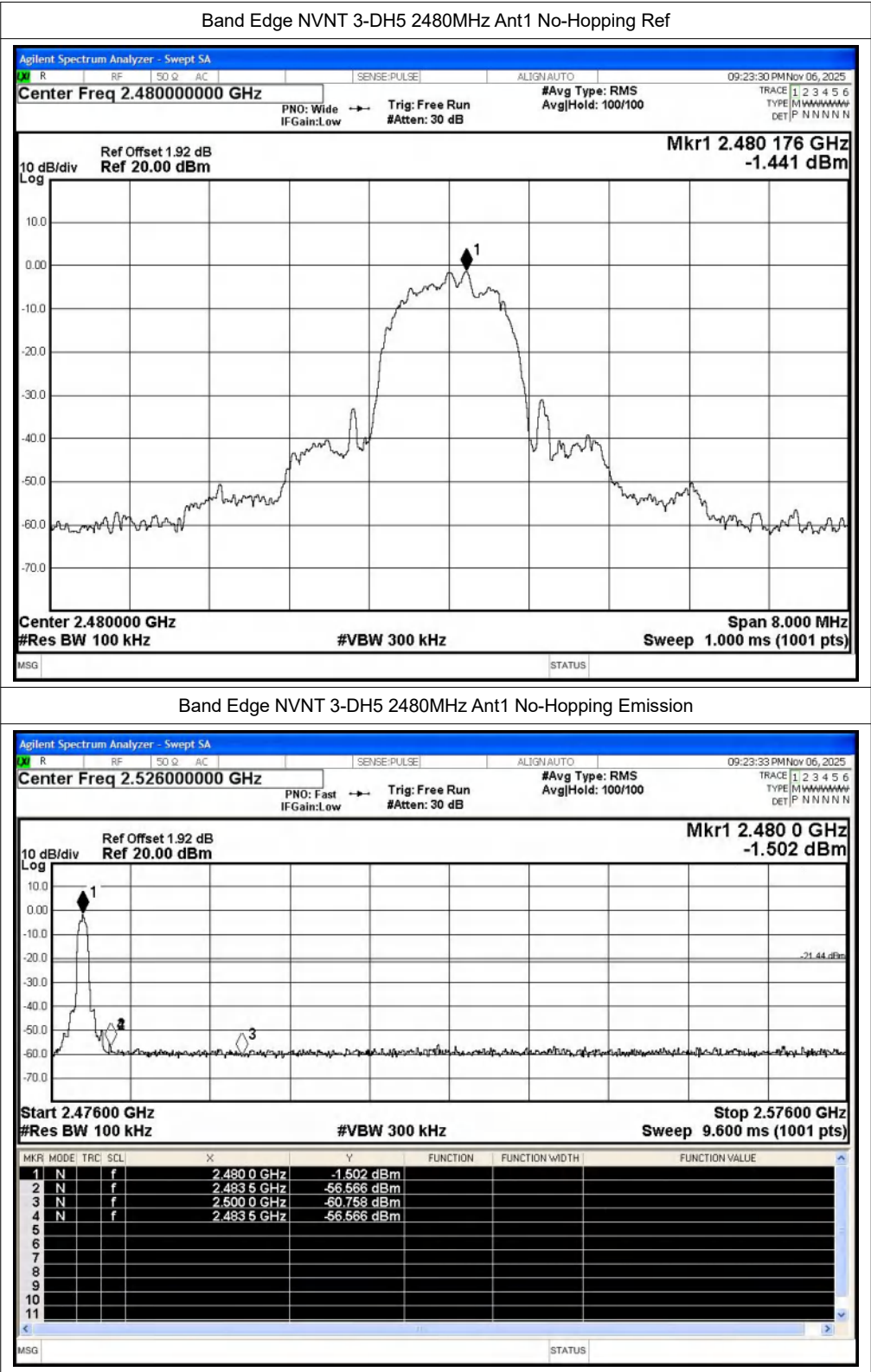
Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission





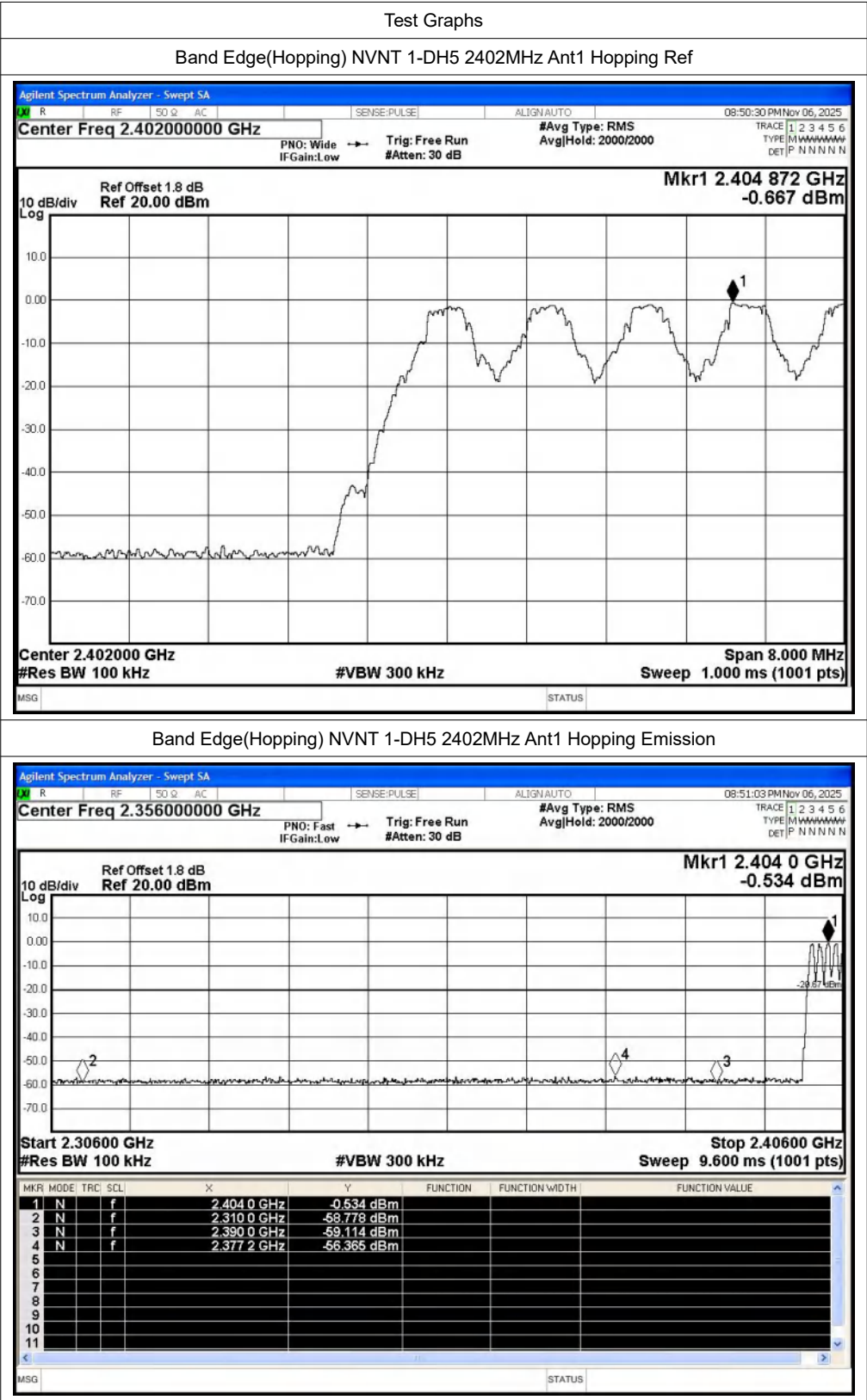
Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

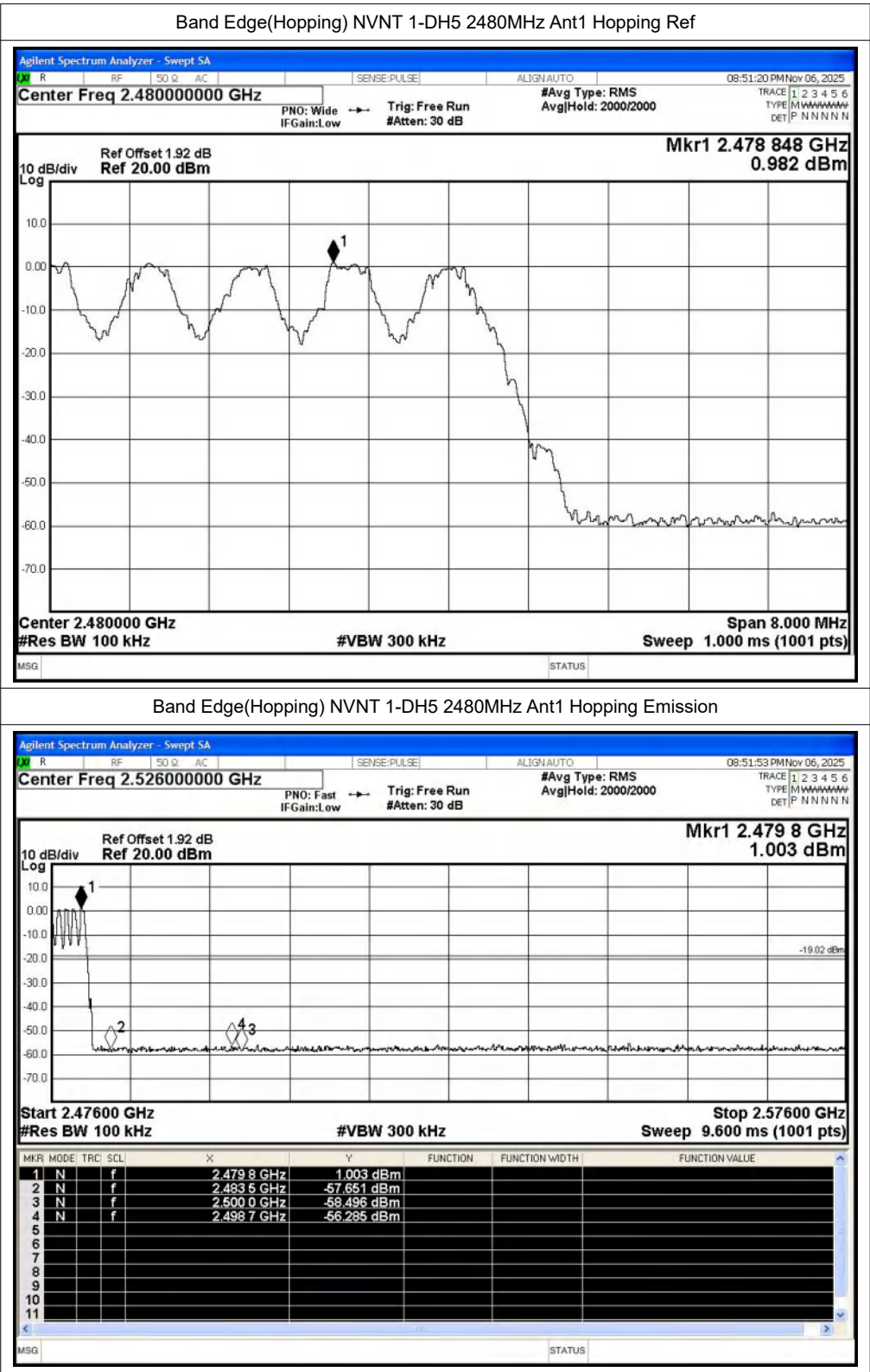


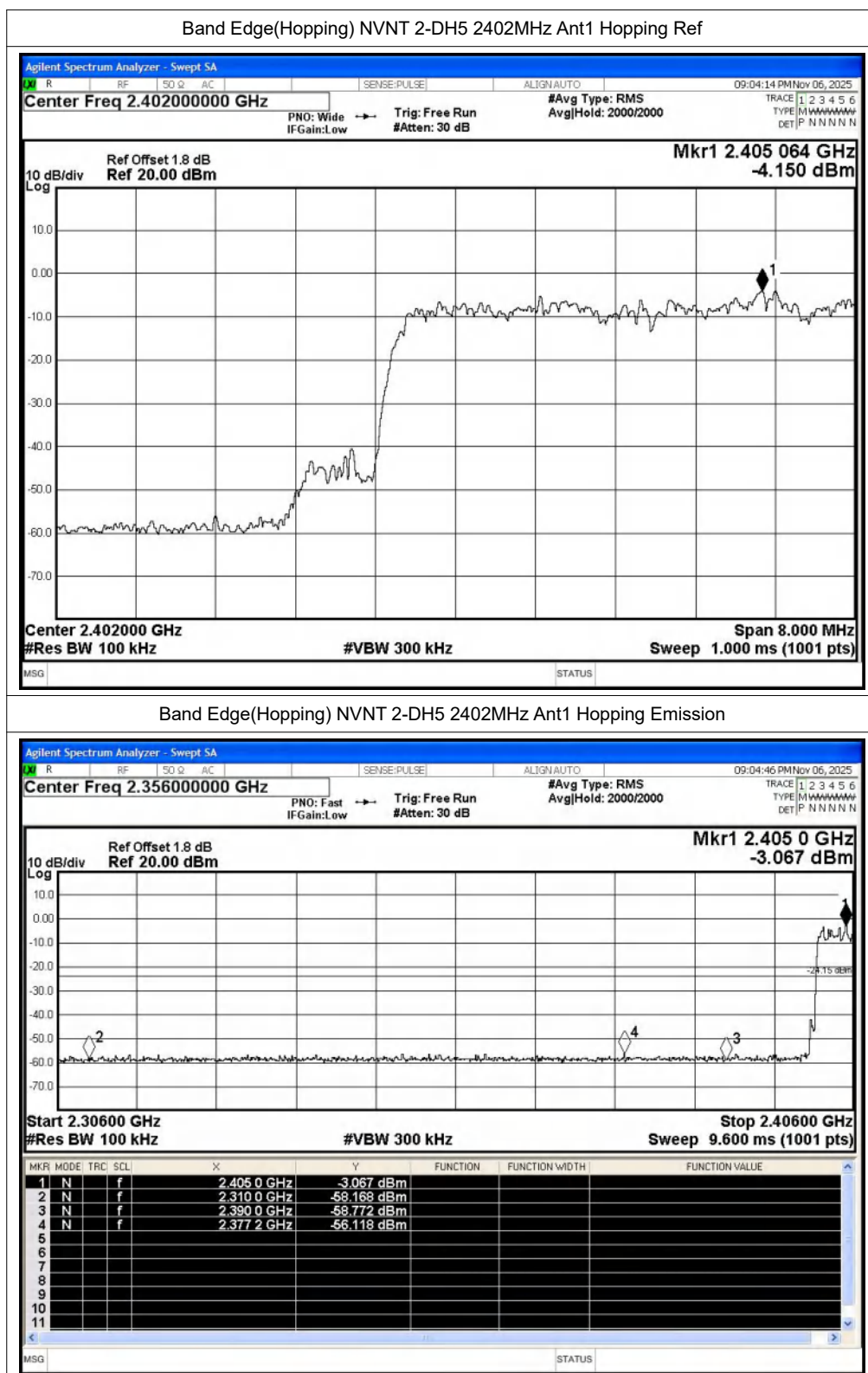


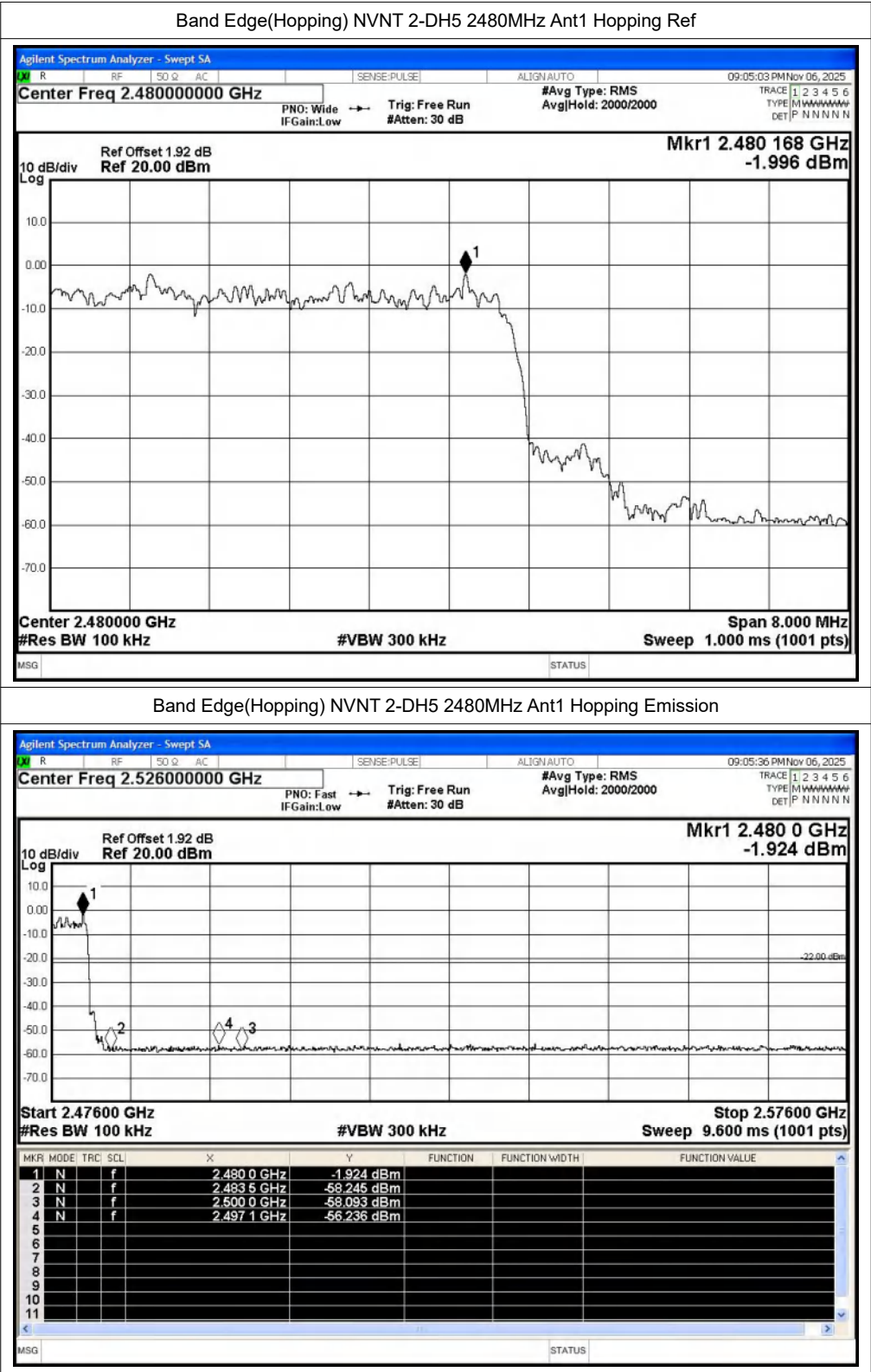
(Hopping)

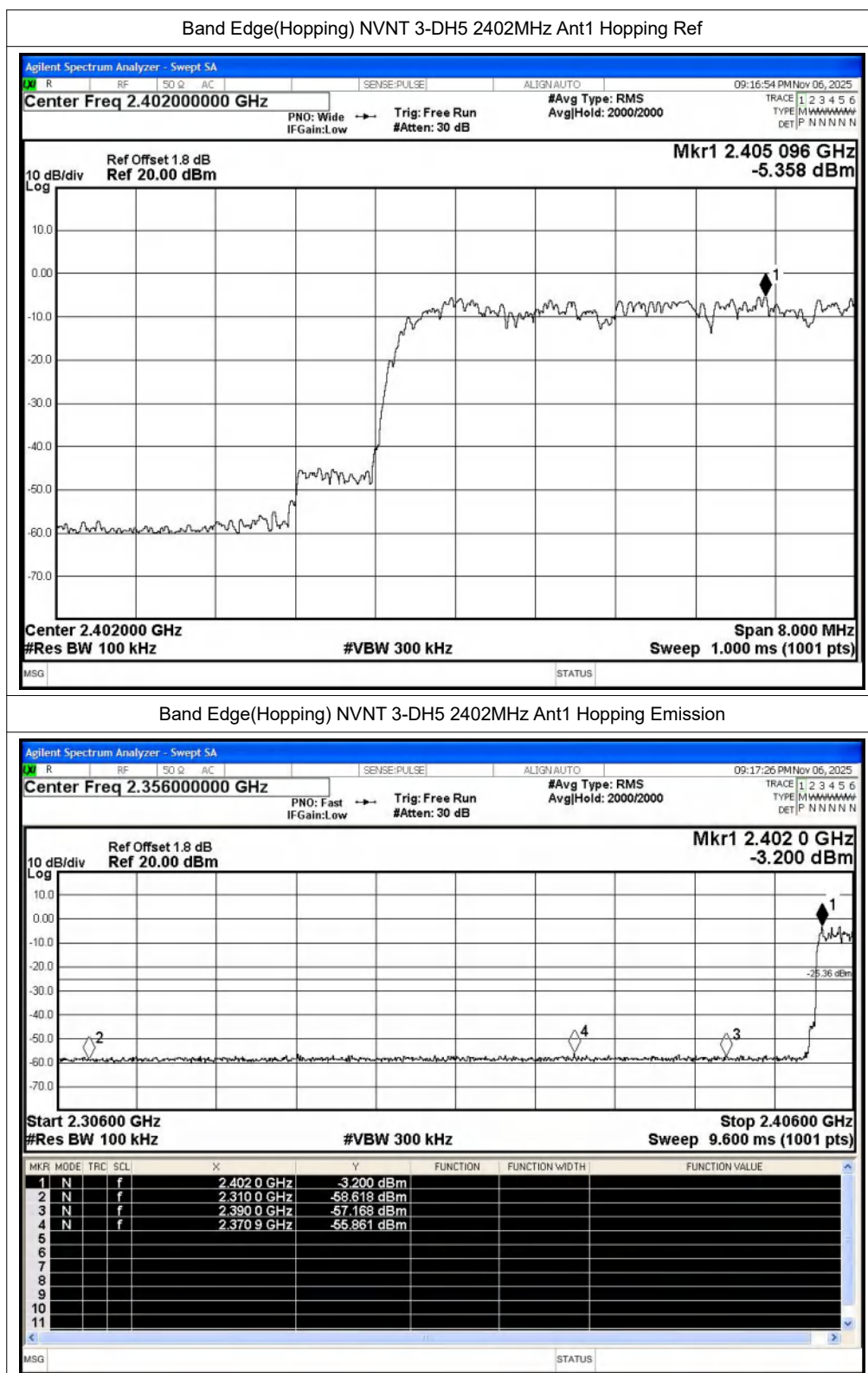
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-55.7	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-57.27	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-51.97	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-54.24	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-50.5	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-54.91	-20	Pass

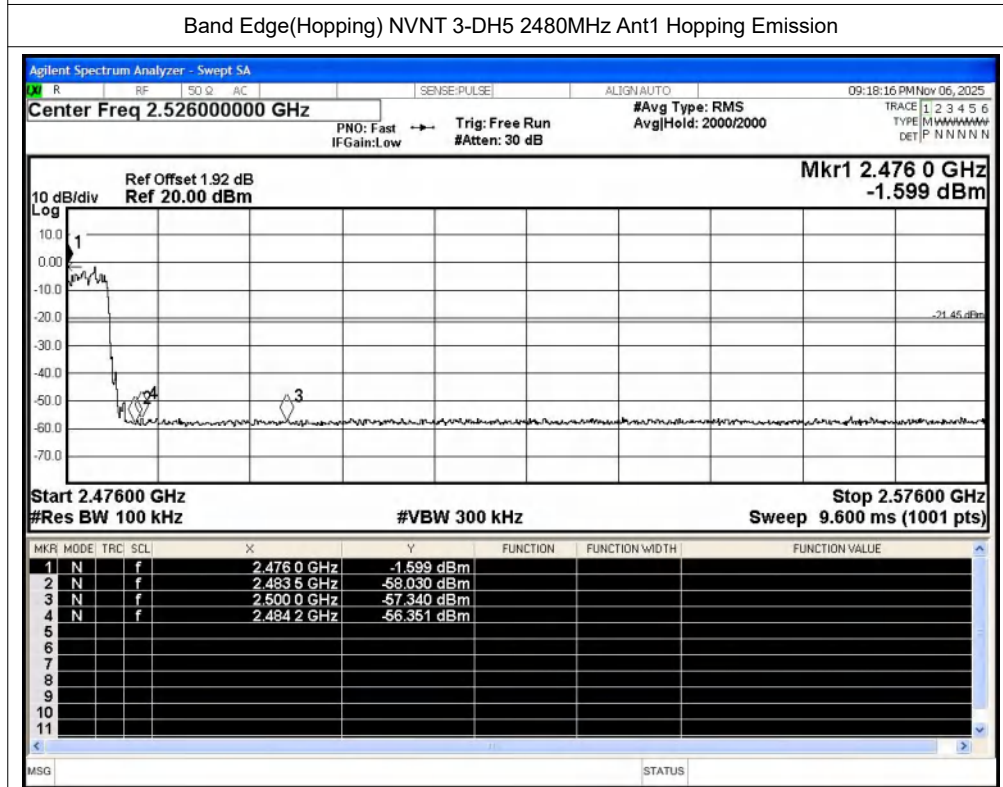
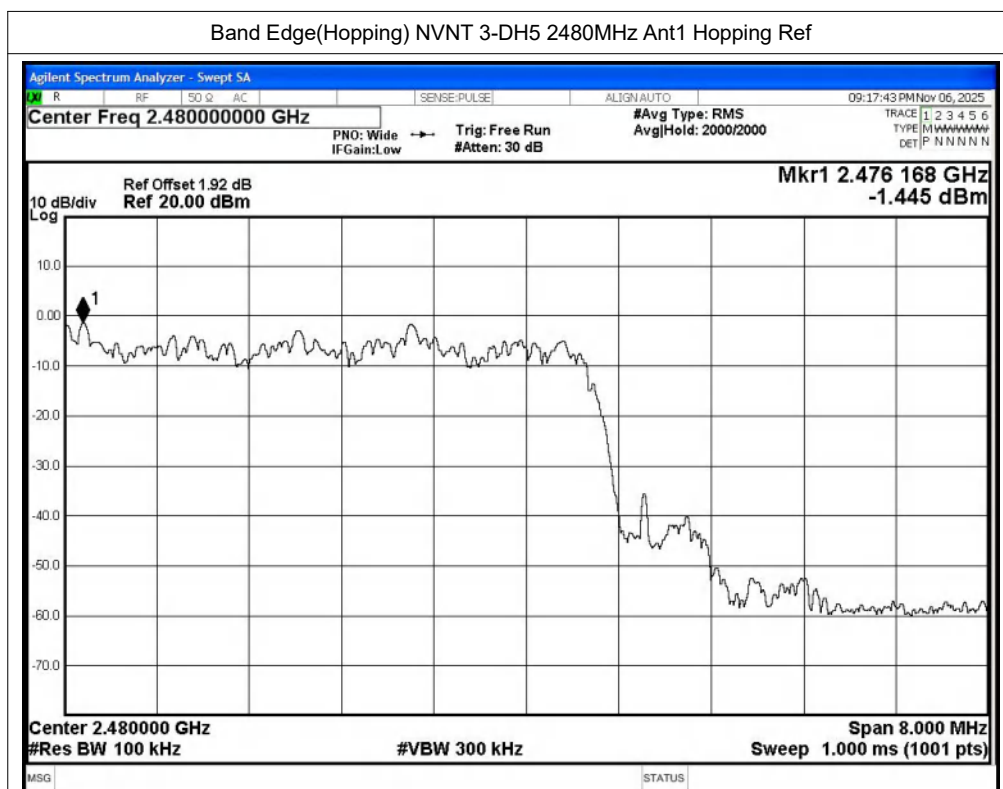






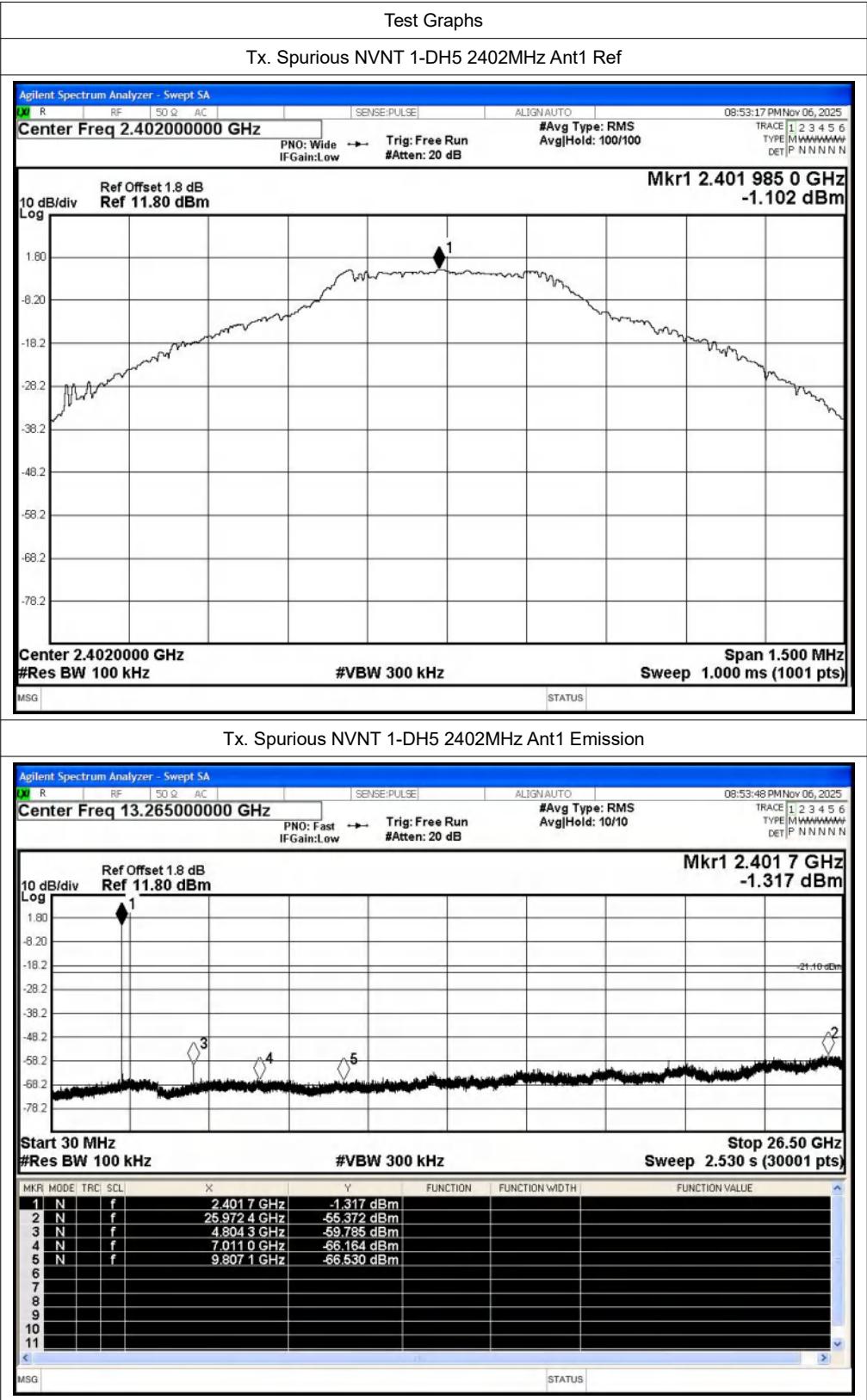




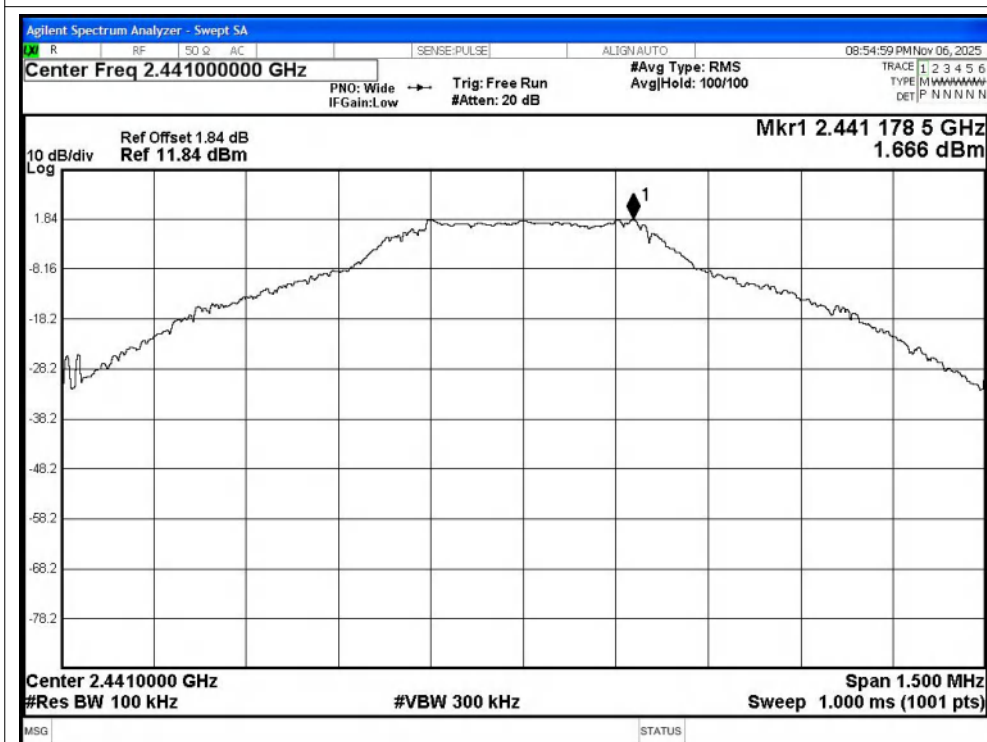


A.7 Conducted RF Spurious Emission

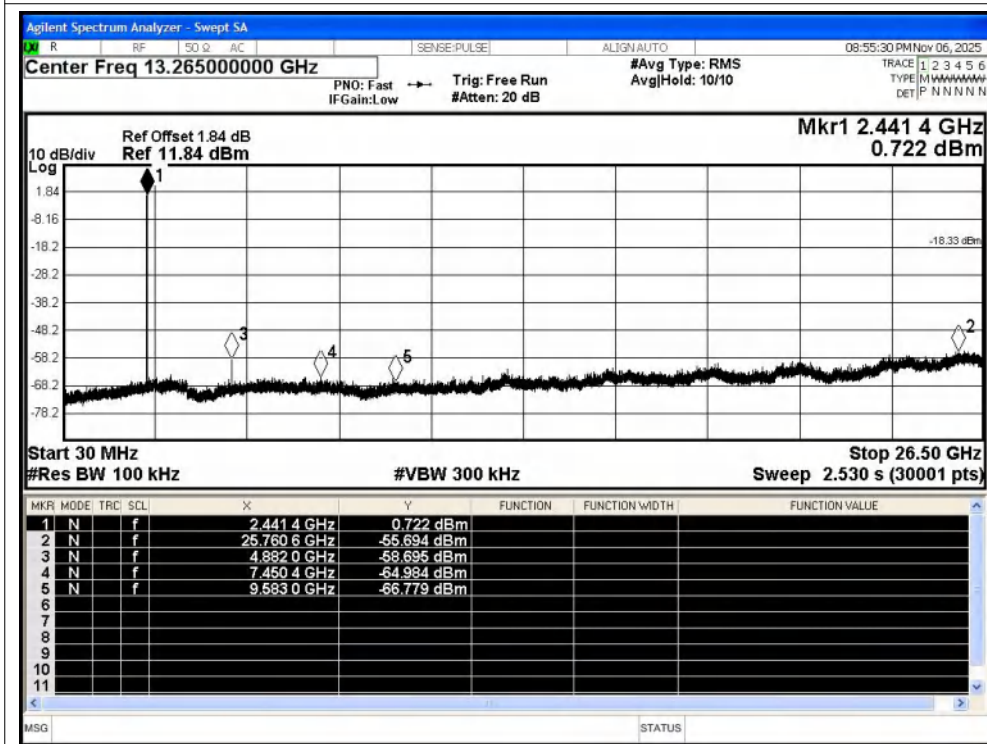
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-54.27	-20	Pass
NVNT	1-DH5	2441	Ant1	-57.36	-20	Pass
NVNT	1-DH5	2480	Ant1	-55.88	-20	Pass
NVNT	2-DH5	2402	Ant1	-51.89	-20	Pass
NVNT	2-DH5	2441	Ant1	-53.95	-20	Pass
NVNT	2-DH5	2480	Ant1	-53	-20	Pass
NVNT	3-DH5	2402	Ant1	-52.38	-20	Pass
NVNT	3-DH5	2441	Ant1	-53.26	-20	Pass
NVNT	3-DH5	2480	Ant1	-52.69	-20	Pass



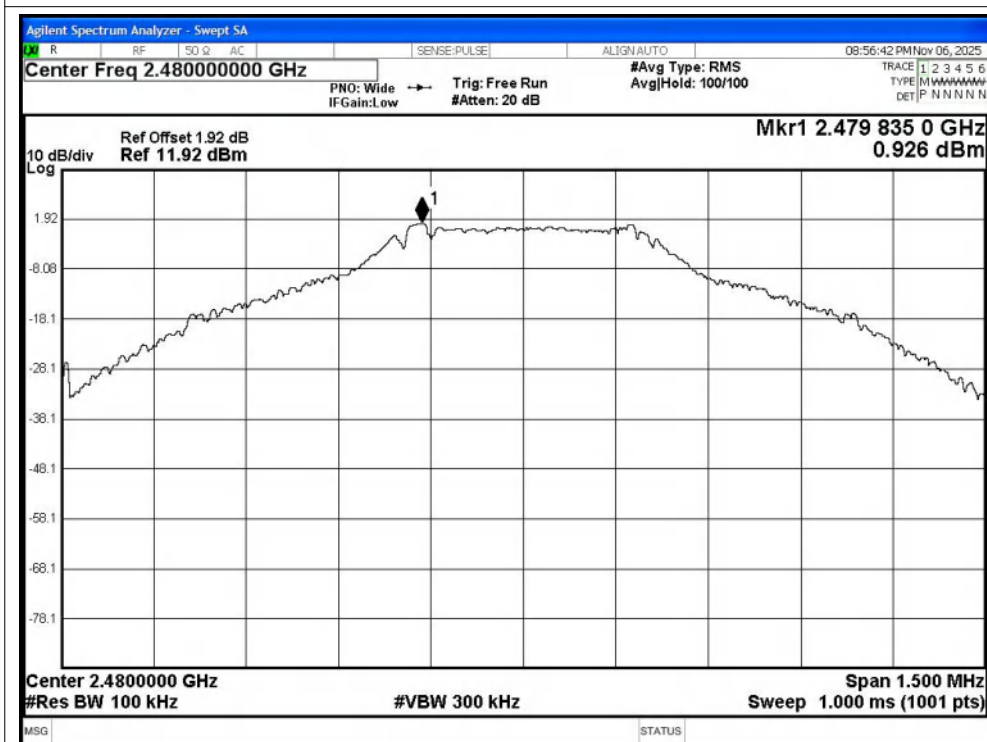
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



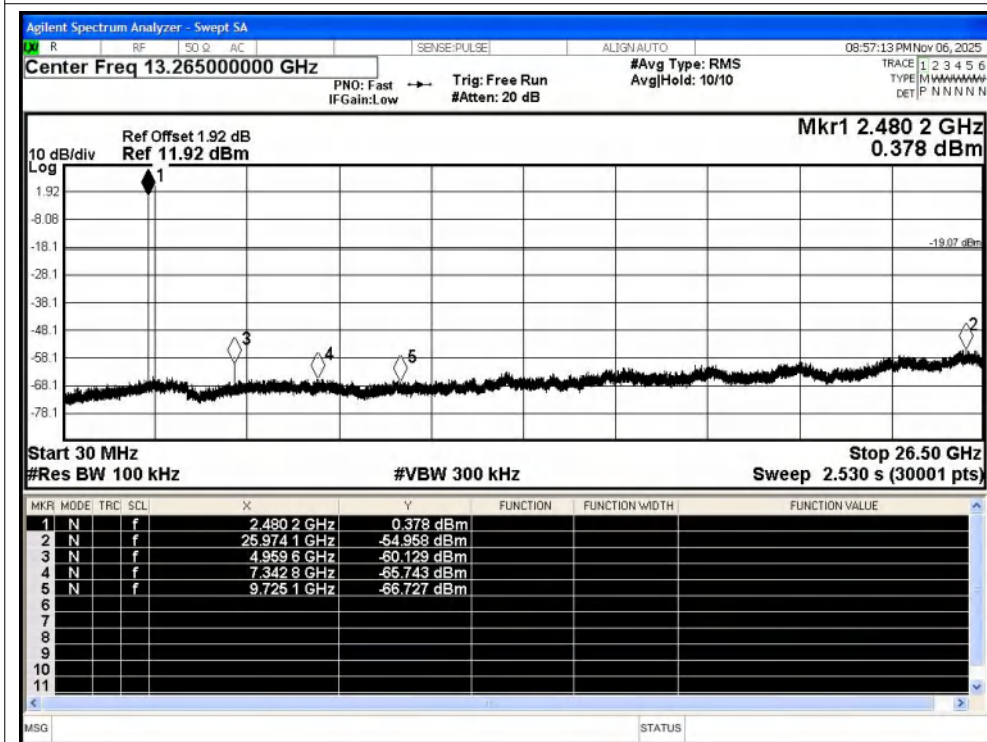
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



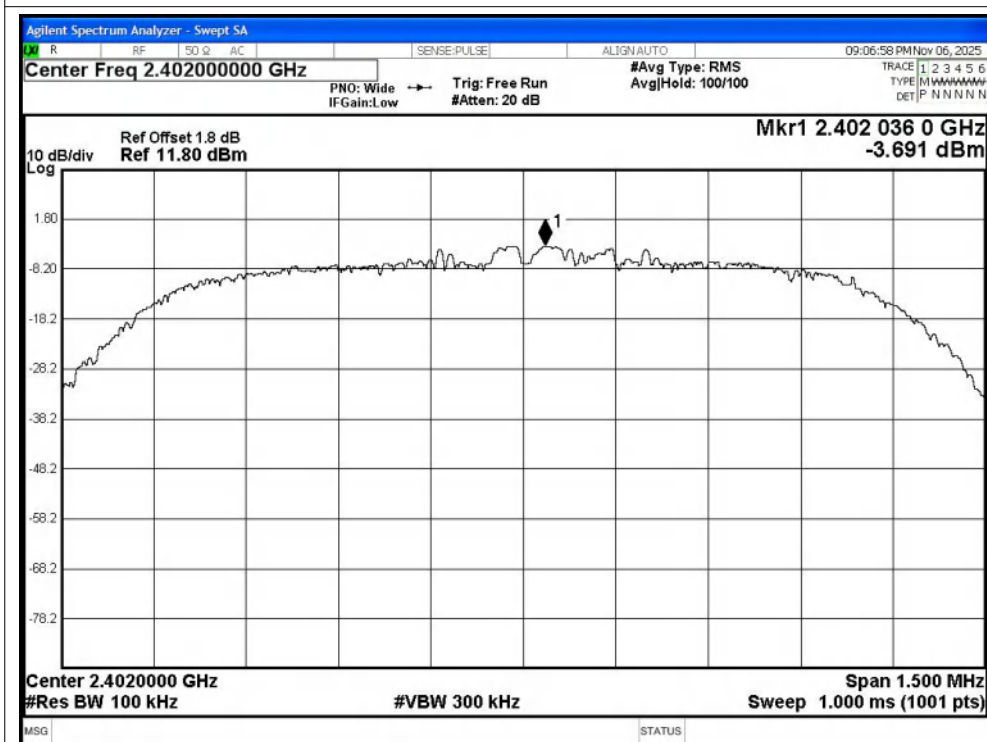
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



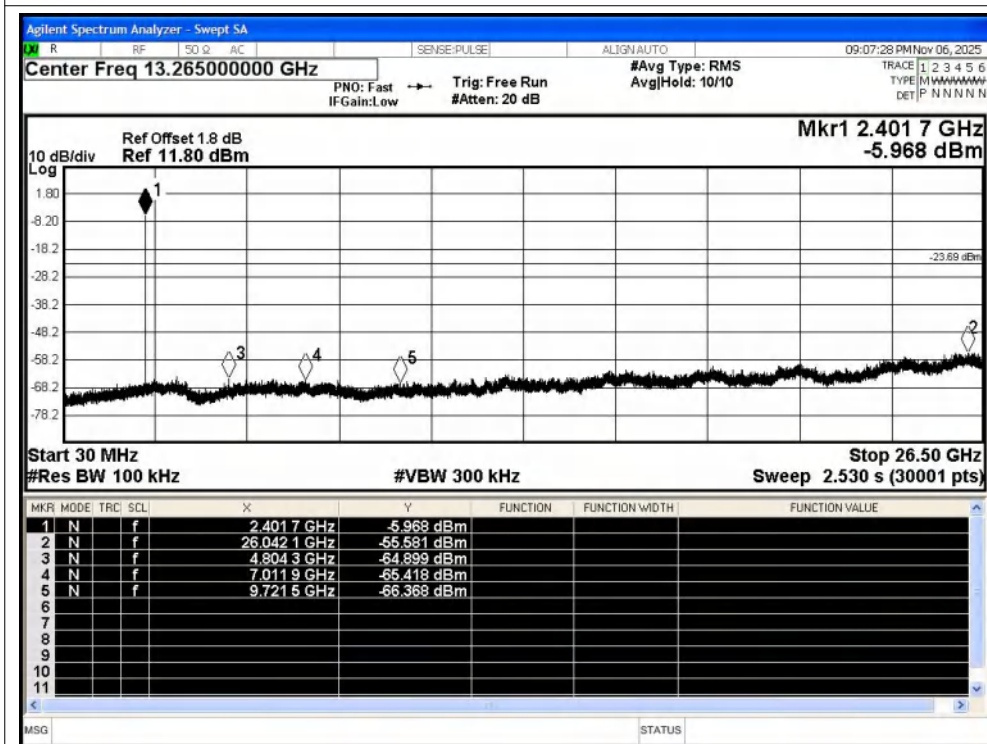
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission

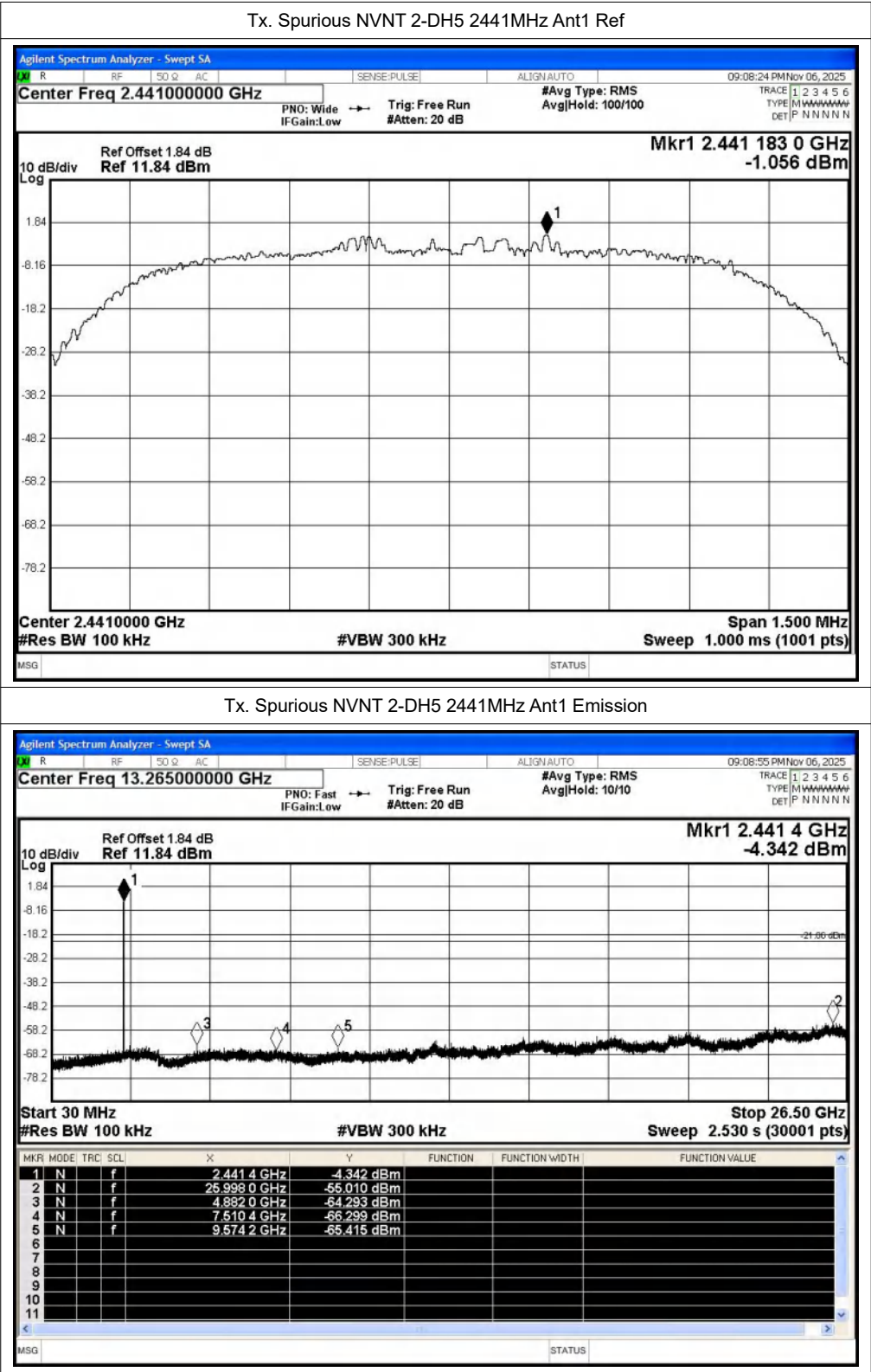


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref

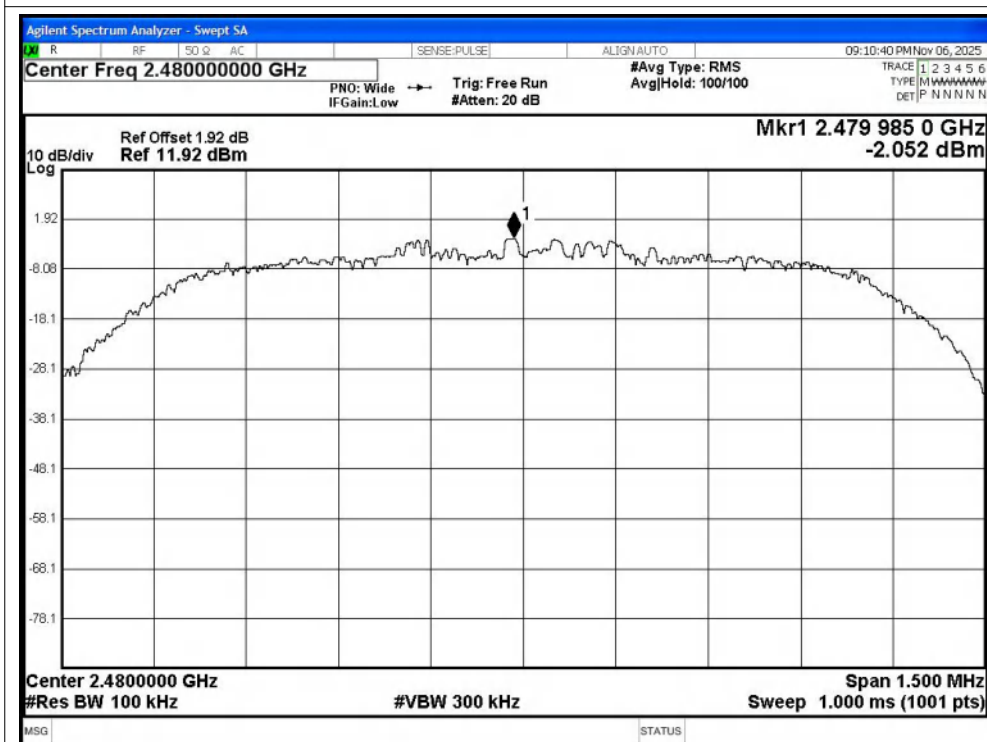


Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission

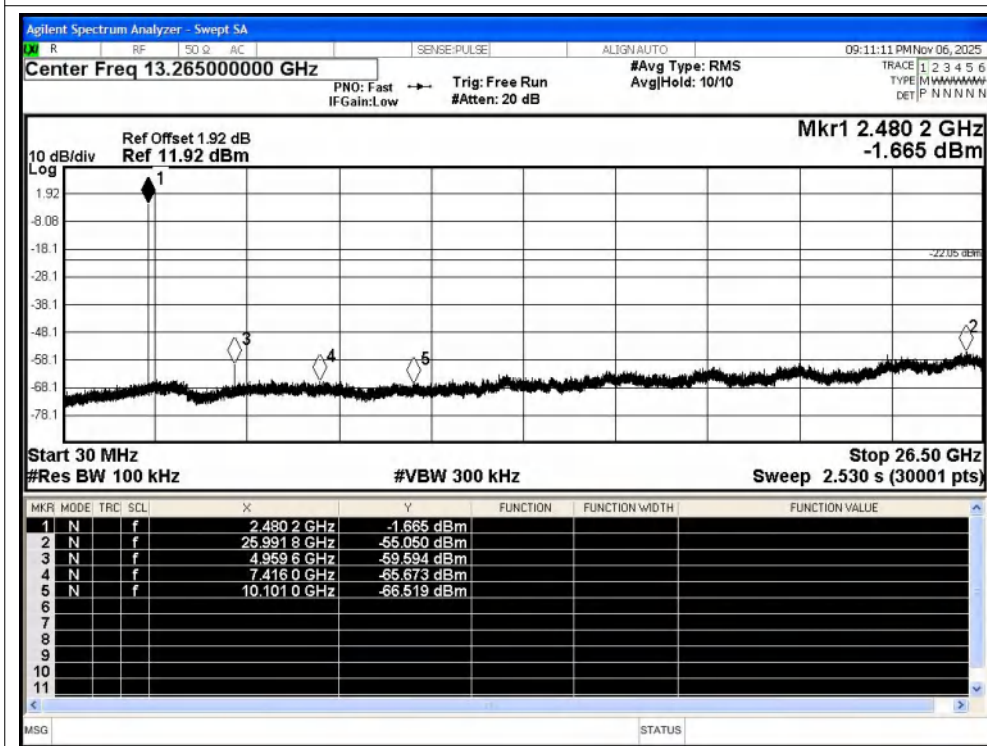




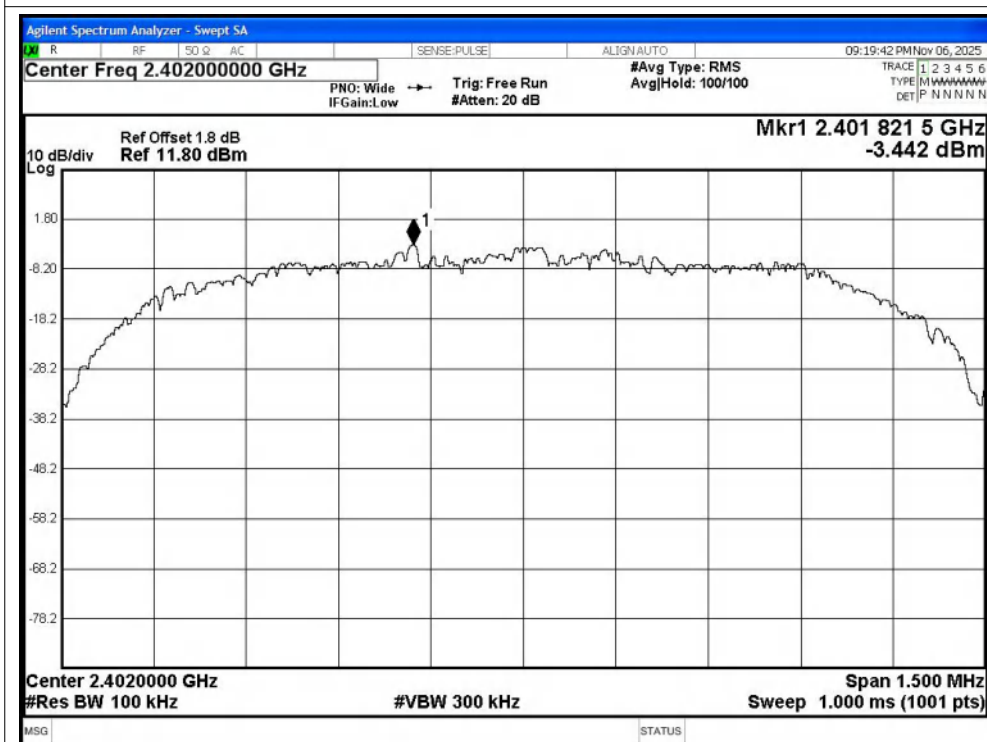
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



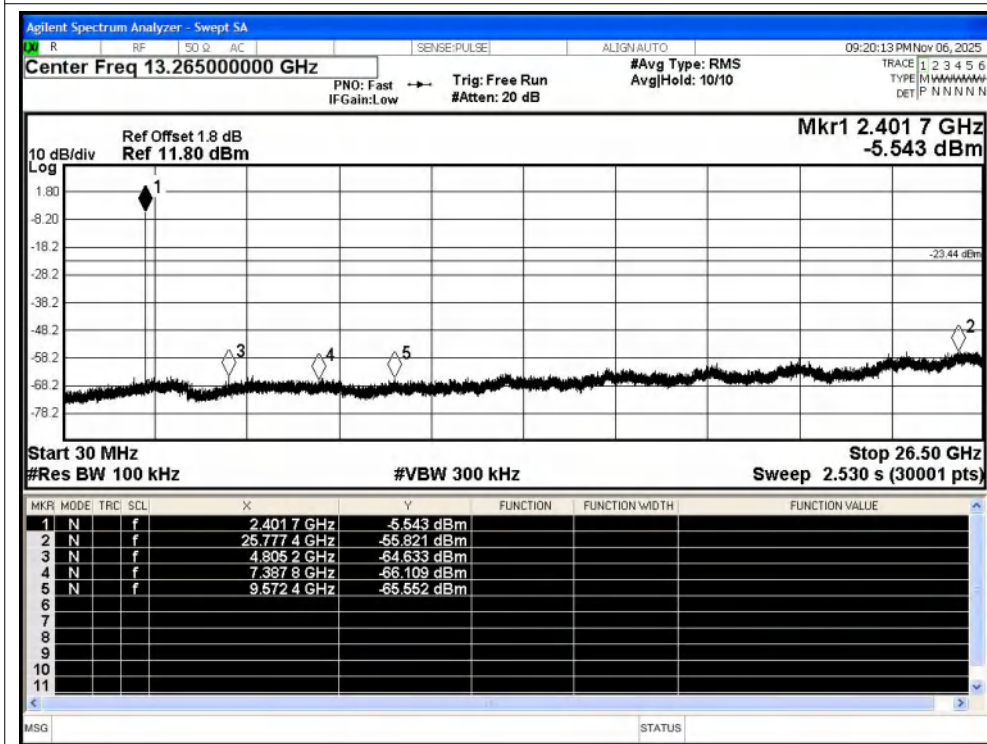
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



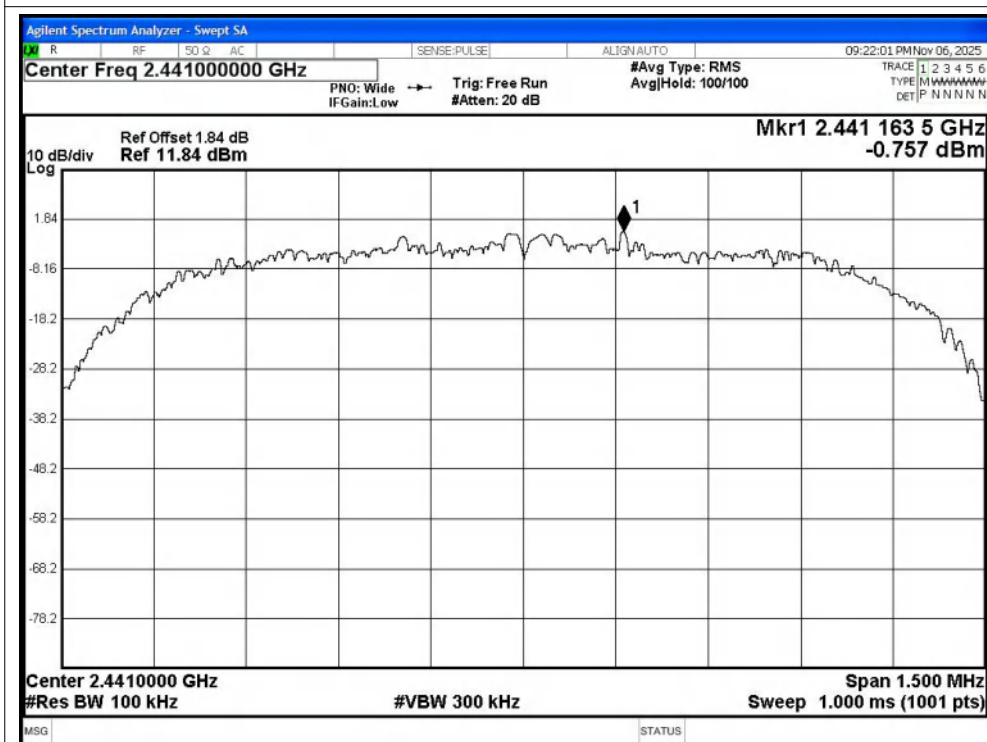
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



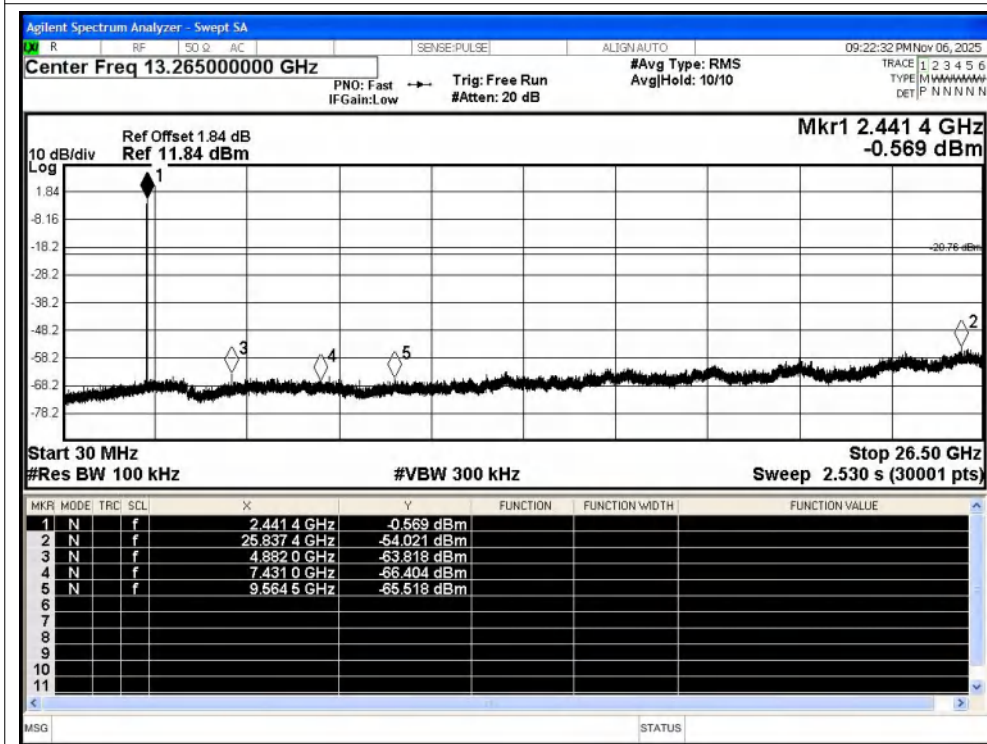
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



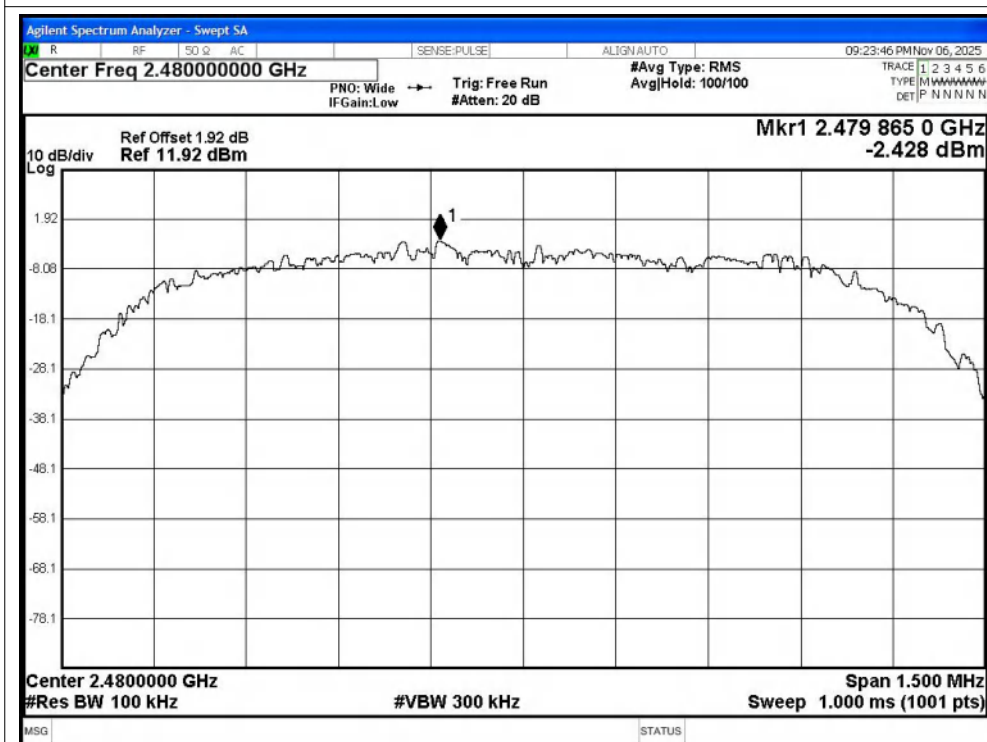
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



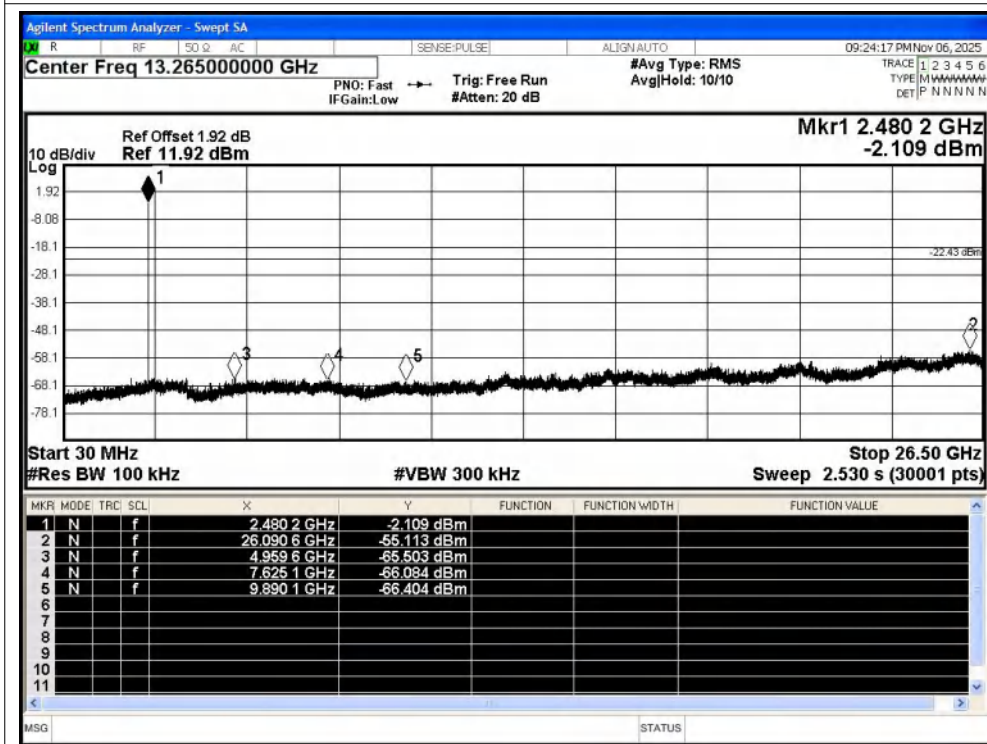
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission

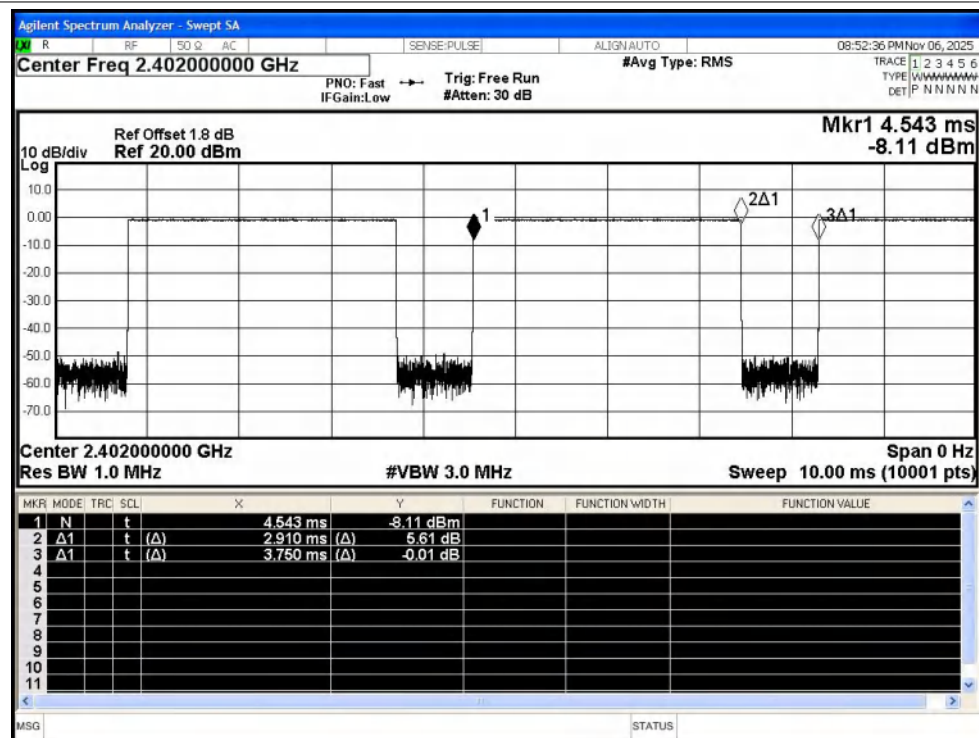


A.8 Duty Cycle

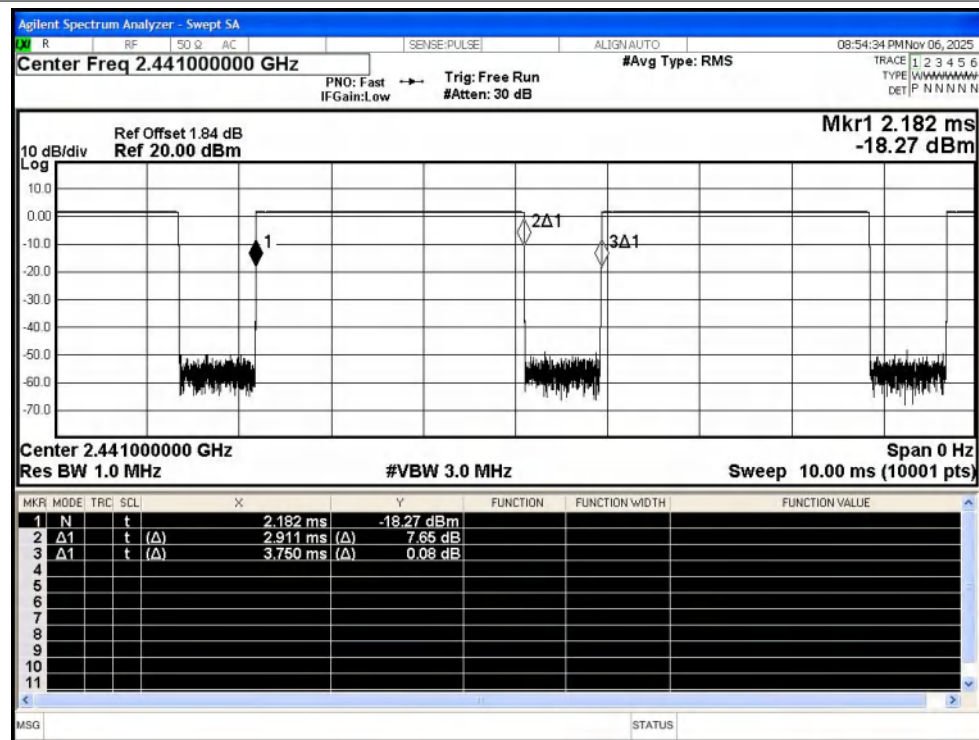
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	77.6	1.1	0.34
NVNT	1-DH5	2441	Ant1	77.63	1.1	0.34
NVNT	1-DH5	2480	Ant1	77.6	1.1	0.34
NVNT	2-DH5	2402	Ant1	97.22	0.12	7.14
NVNT	2-DH5	2441	Ant1	77.28	1.12	0.35
NVNT	2-DH5	2480	Ant1	97.22	0.12	7.14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

Test Graphs

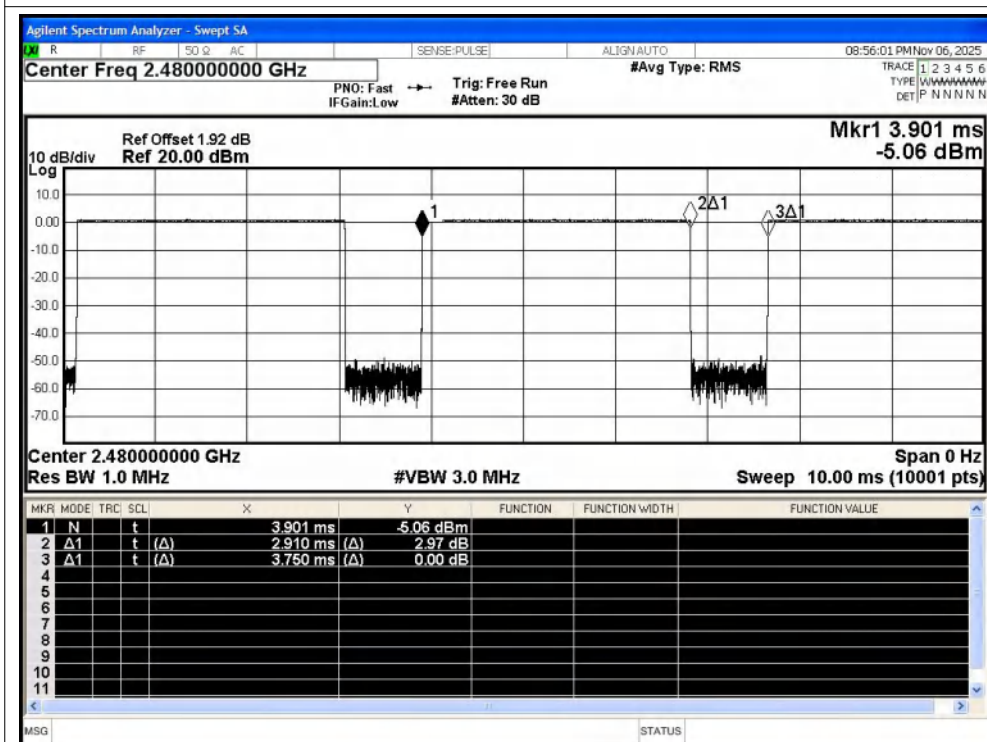
Duty Cycle NVNT 1-DH5 2402MHz Ant1



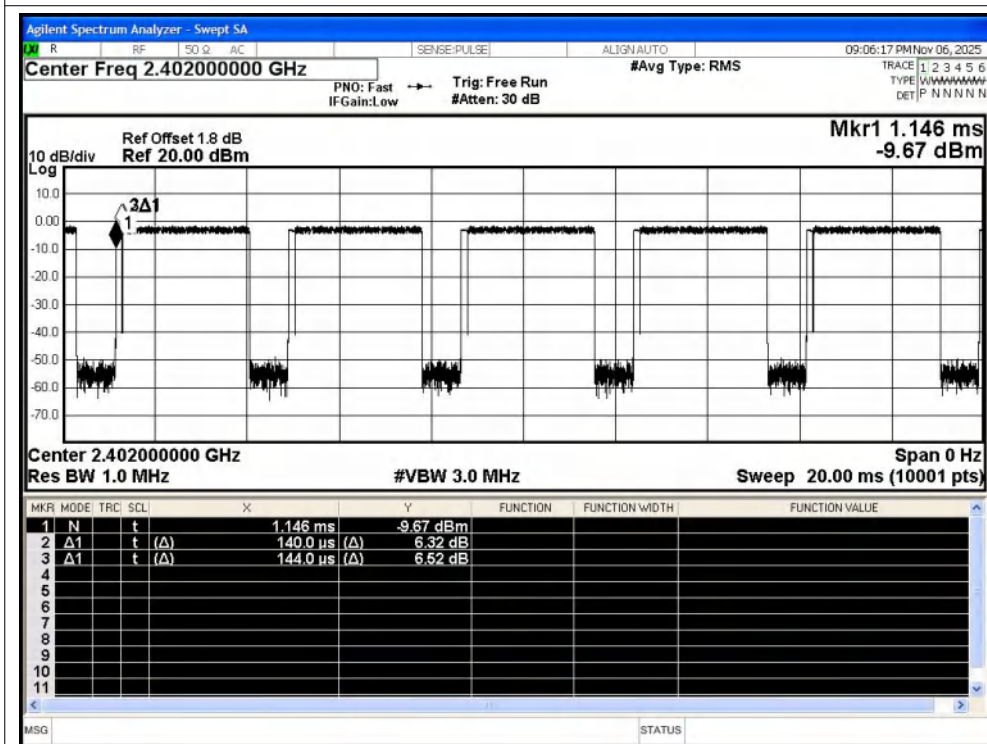
Duty Cycle NVNT 1-DH5 2441MHz Ant1



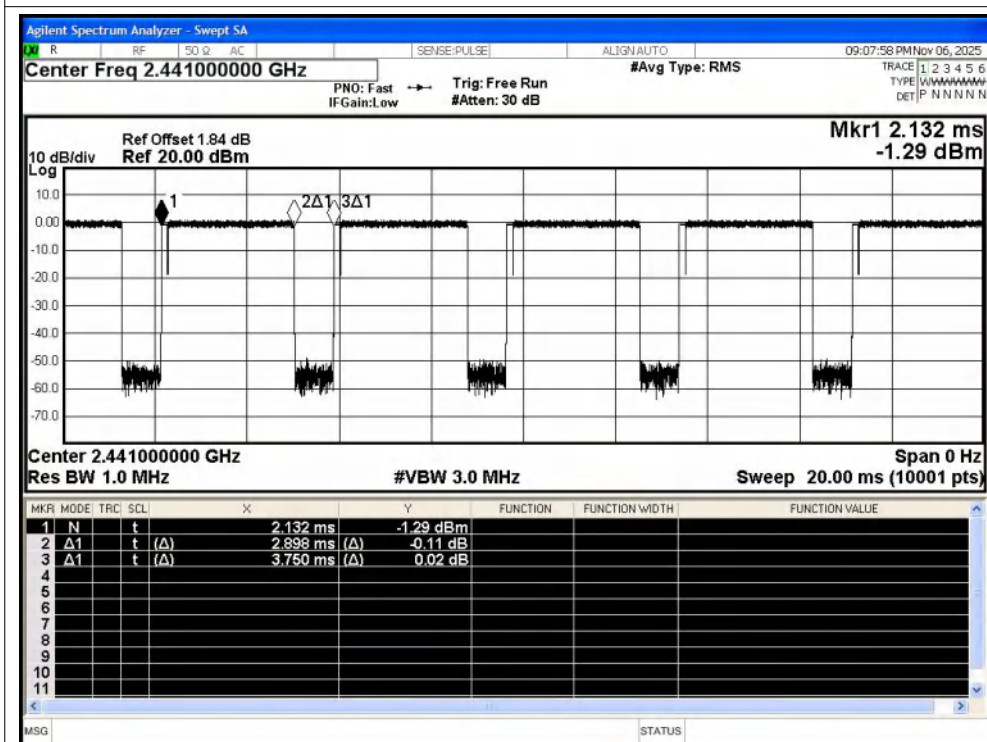
Duty Cycle NVNT 1-DH5 2480MHz Ant1



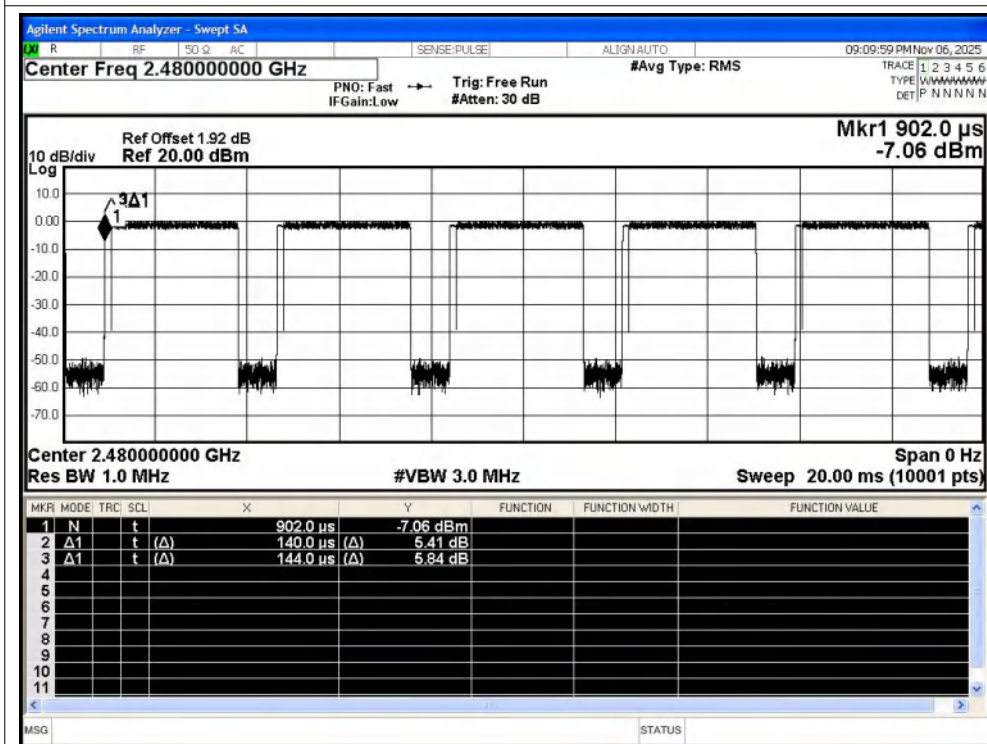
Duty Cycle NVNT 2-DH5 2402MHz Ant1



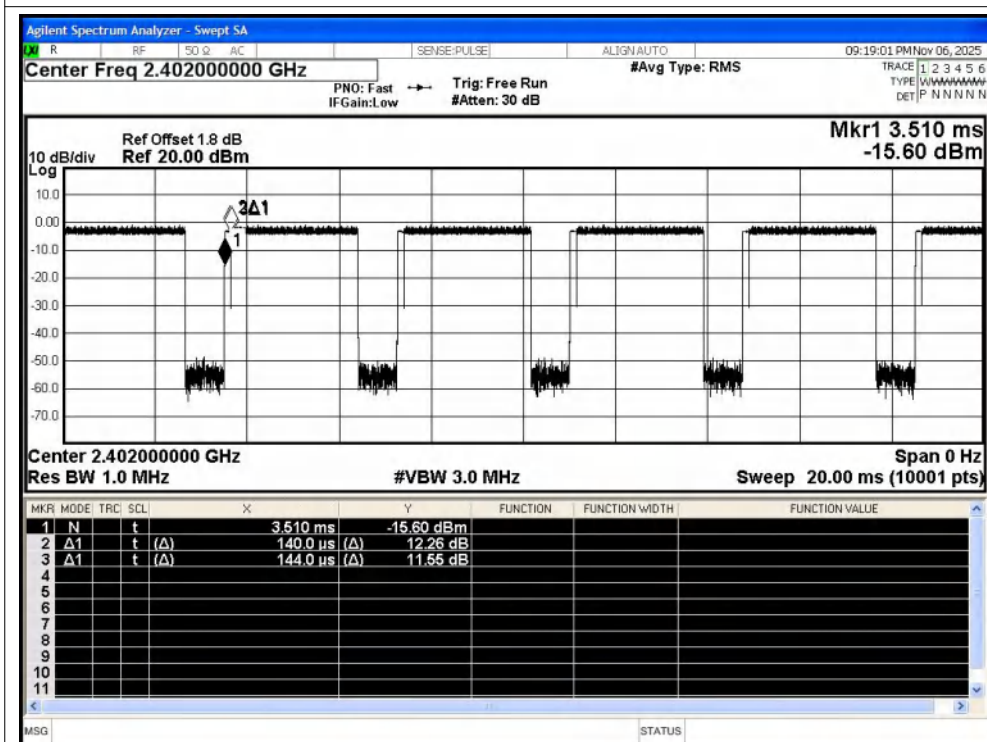
Duty Cycle NVNT 2-DH5 2441MHz Ant1



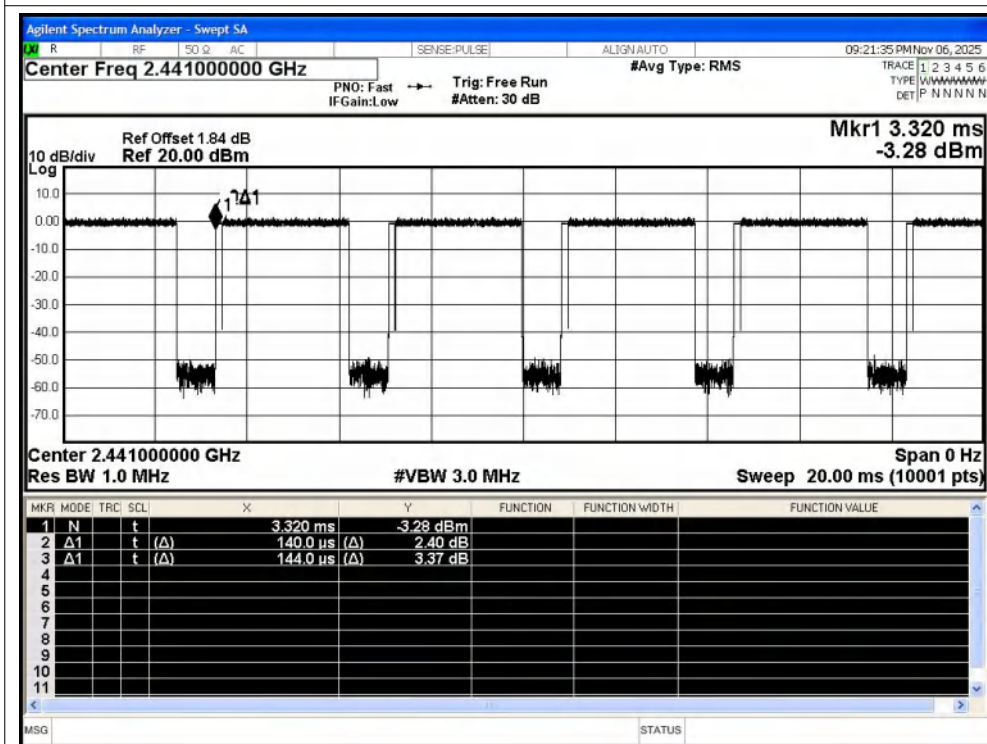
Duty Cycle NVNT 2-DH5 2480MHz Ant1

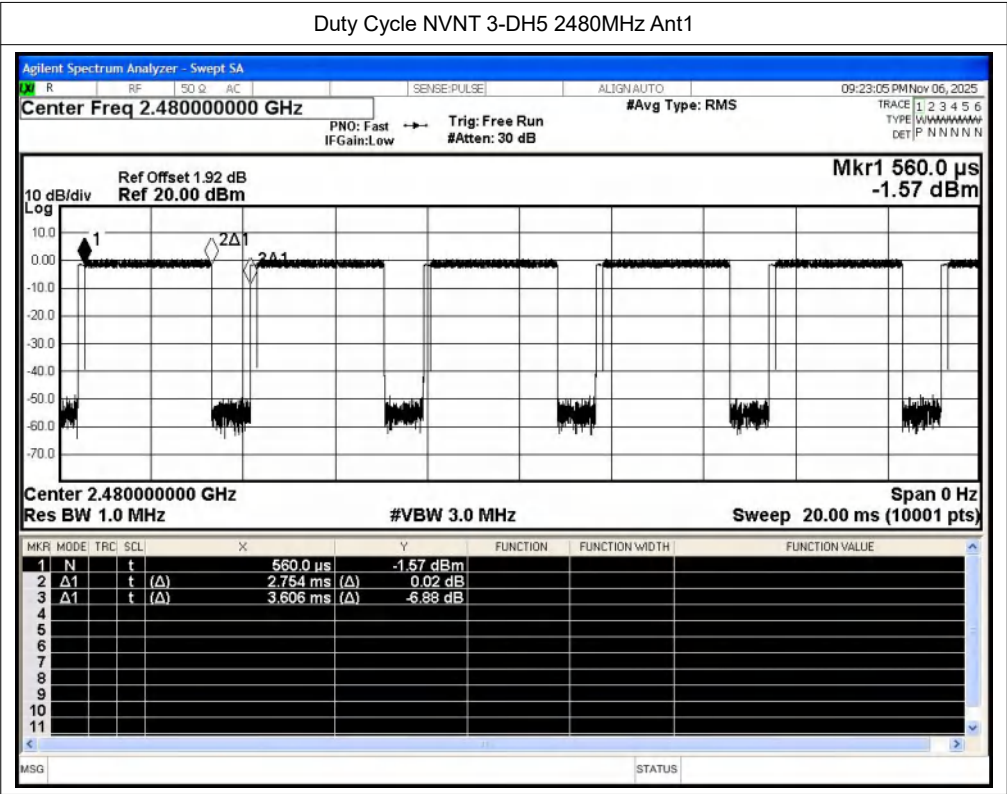


Duty Cycle NVNT 3-DH5 2402MHz Ant1



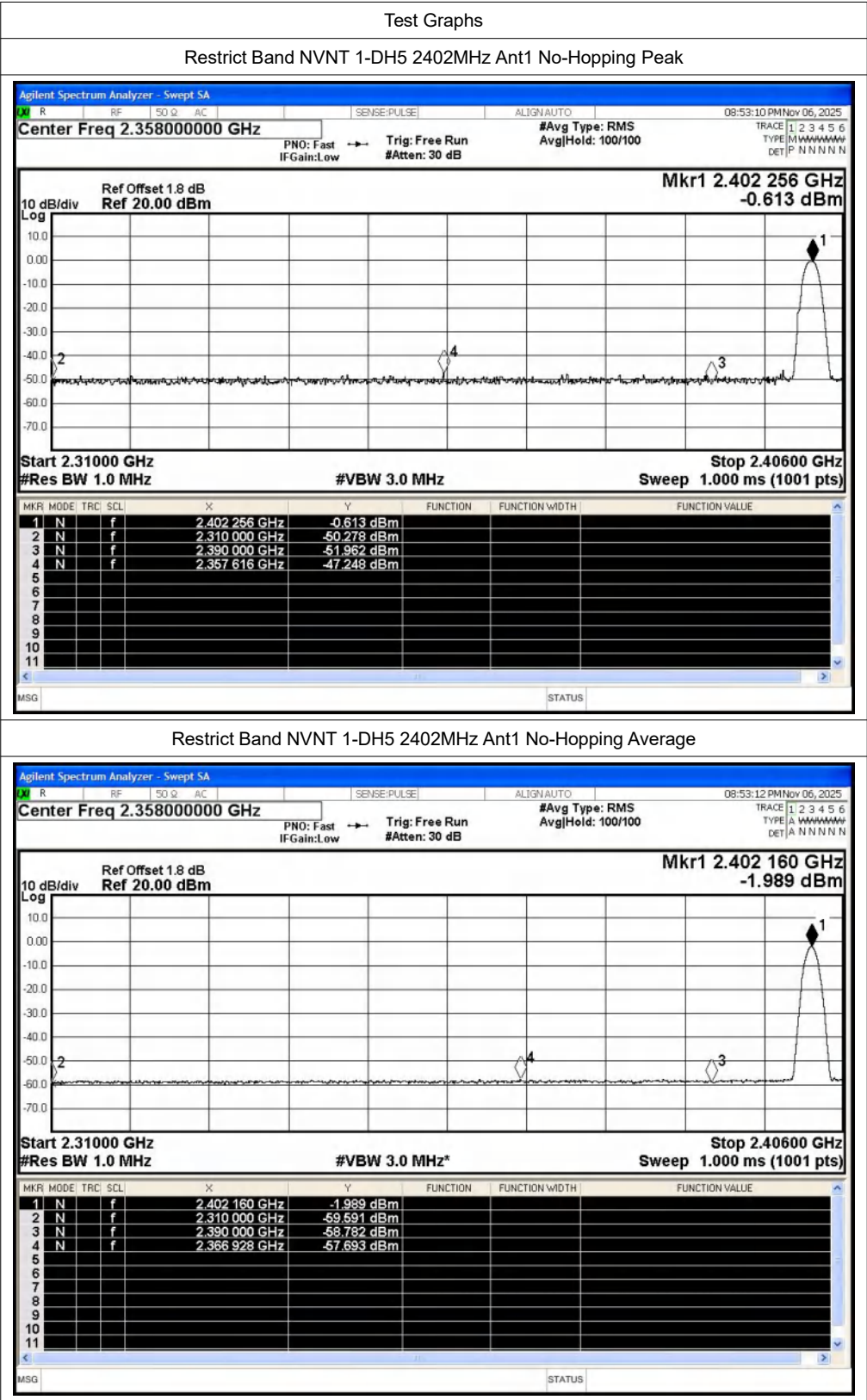
Duty Cycle NVNT 3-DH5 2441MHz Ant1



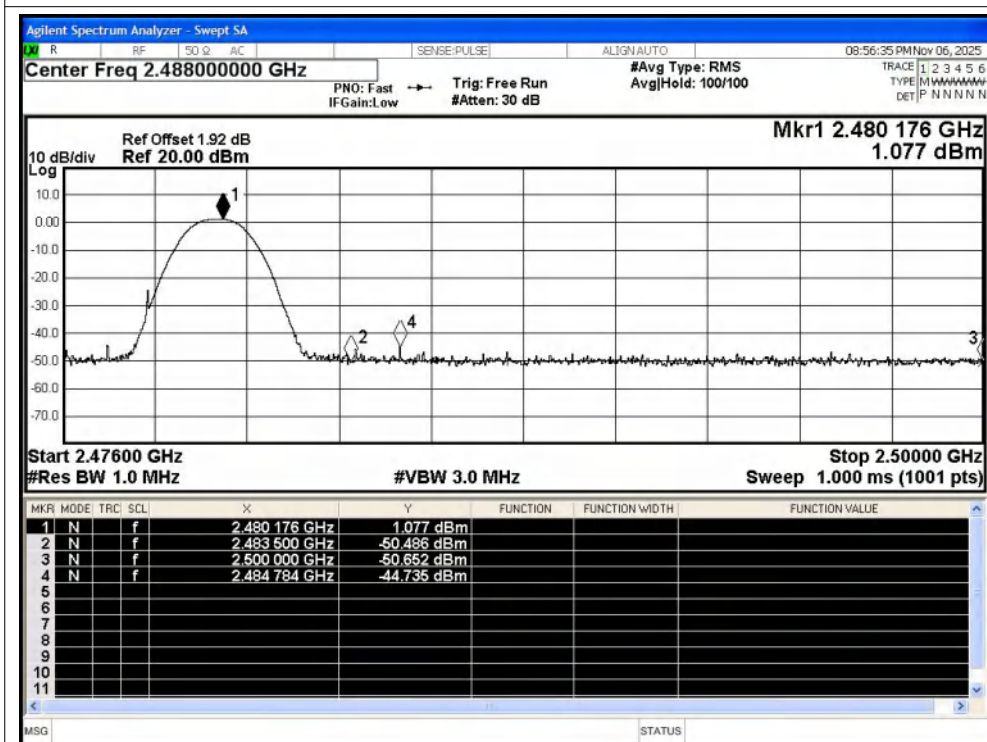


A.9 Restrict Band

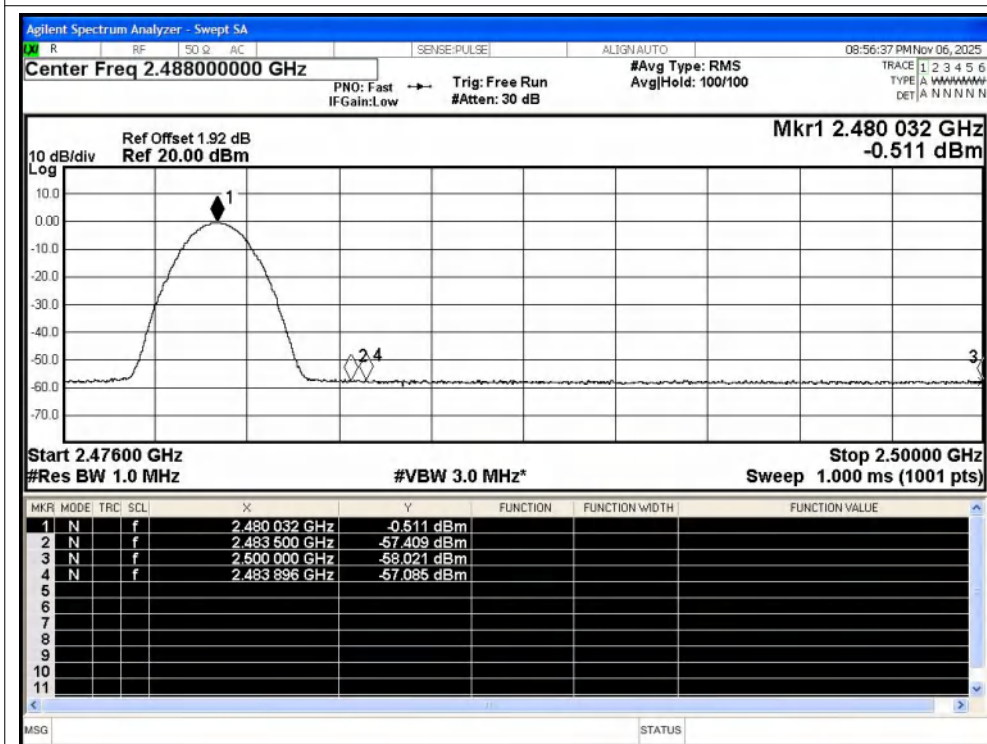
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-50.28	4.59	-	49.57	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-59.59	4.59	1.1	41.36	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2357.616	-47.25	4.59	-	52.60	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2366.928	-57.69	4.59	1.1	43.26	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-51.96	4.59	-	47.89	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-58.78	4.59	1.1	42.17	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-50.49	4.59	-	49.36	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-57.41	4.59	1.1	43.54	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2484.784	-44.74	4.59	-	55.11	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.896	-57.09	4.59	1.1	43.86	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.65	4.59	-	49.20	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-58.02	4.59	1.1	42.93	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.63	4.59	-	49.22	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-58.81	4.59	0.12	41.16	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2354.448	-47.97	4.59	-	51.88	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2356.272	-57.84	4.59	0.12	42.13	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-52.08	4.59	-	47.77	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-58.31	4.59	0.12	41.66	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-50.73	4.59	-	49.12	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-57.67	4.59	0.12	42.30	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2494.672	-47.14	4.59	-	52.71	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2496.112	-57.22	4.59	0.12	42.75	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-51.08	4.59	-	48.77	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-58.06	4.59	0.12	41.91	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-50.29	4.59	-	49.56	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-58.94	4.59	0.12	41.03	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2343.024	-46.39	4.59	-	53.46	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2373.36	-57.85	4.59	0.12	42.12	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-50.7	4.59	-	49.15	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-58.71	4.59	0.12	41.26	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-49.43	4.59	-	50.42	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-57.4	4.59	1.17	43.62	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2484.328	-45.45	4.59	-	54.40	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2486.512	-57.28	4.59	1.17	43.74	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-50.52	4.59	-	49.33	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-57.37	4.59	1.17	43.65	Average	54	Pass



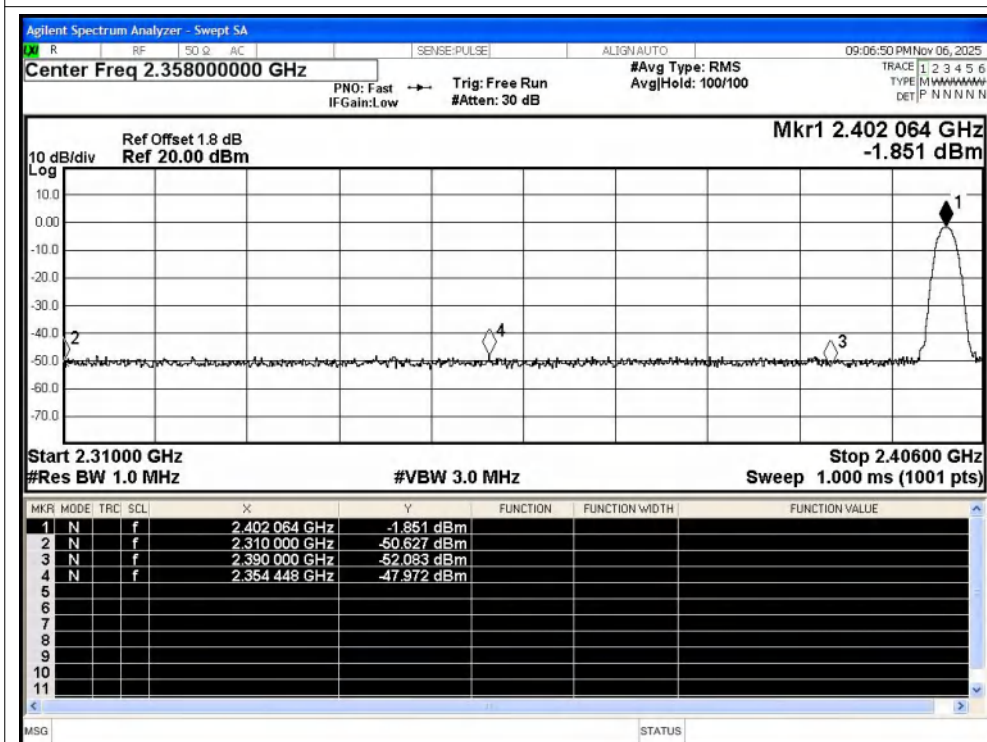
Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Peak



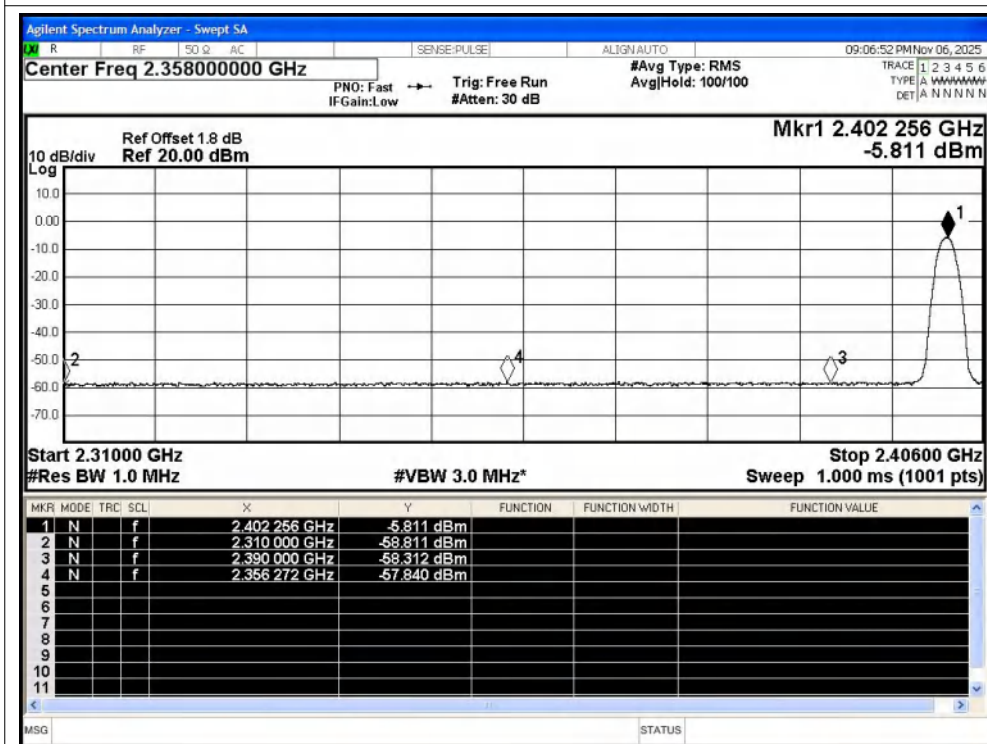
Restrict Band NVNT 1-DH5 2480MHz Ant1 No-Hopping Average



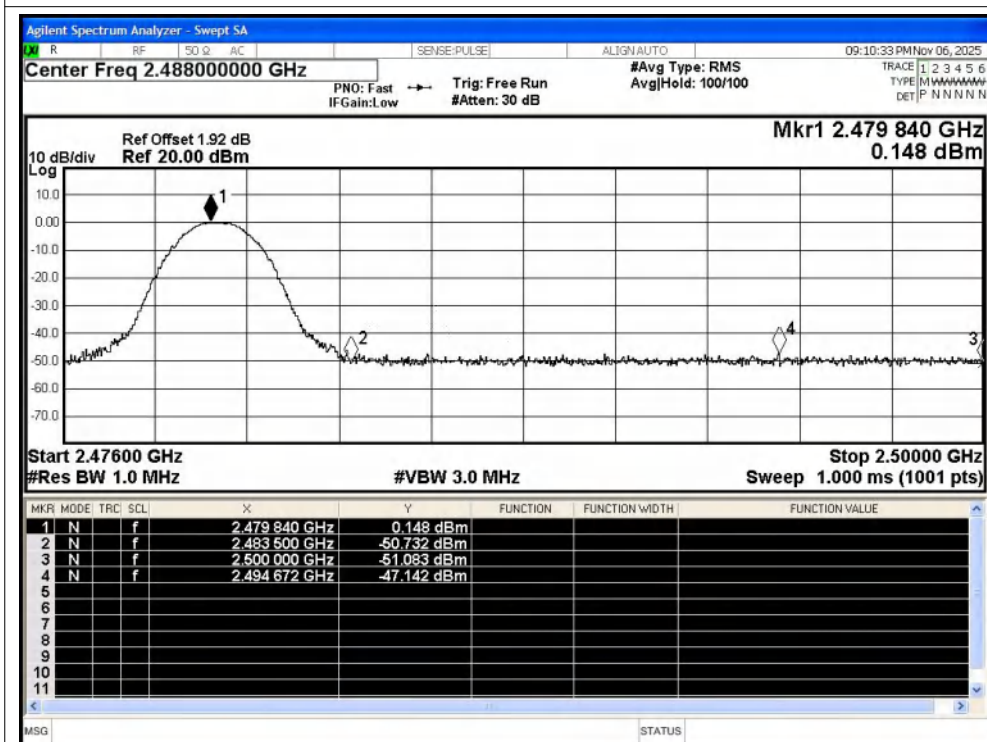
Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Peak



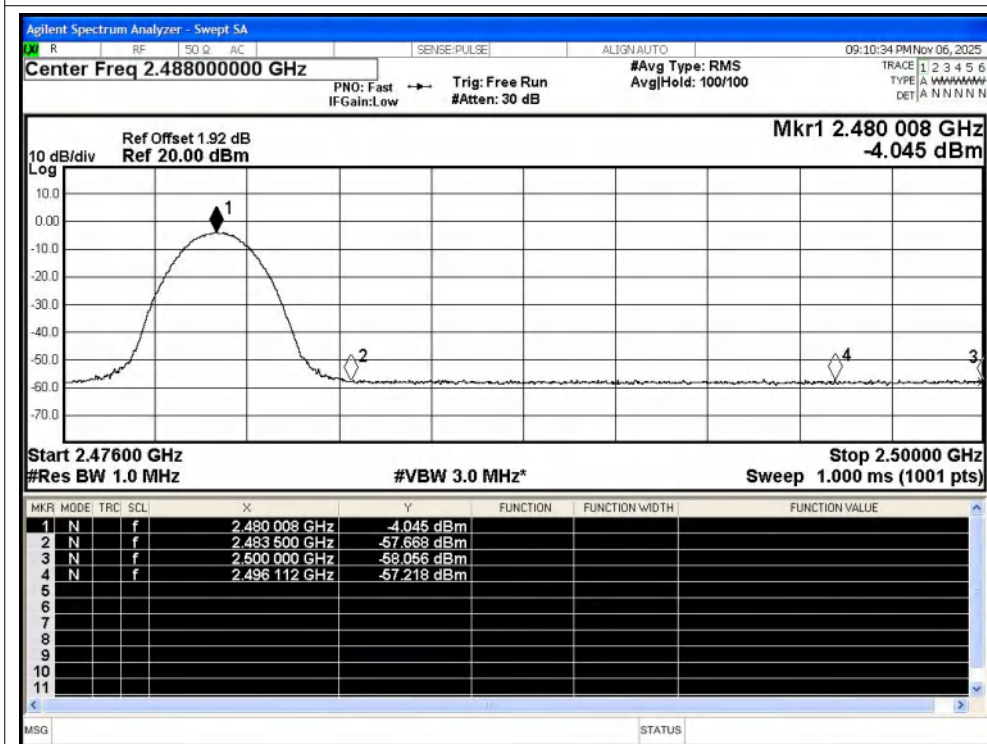
Restrict Band NVNT 2-DH5 2402MHz Ant1 No-Hopping Average

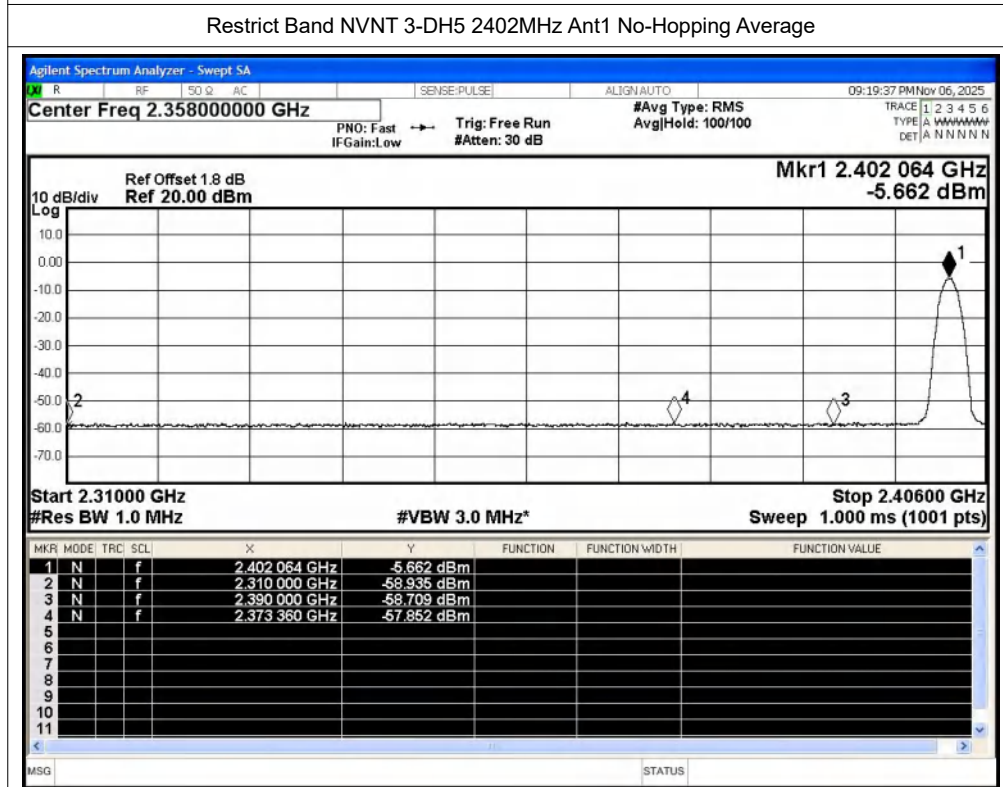
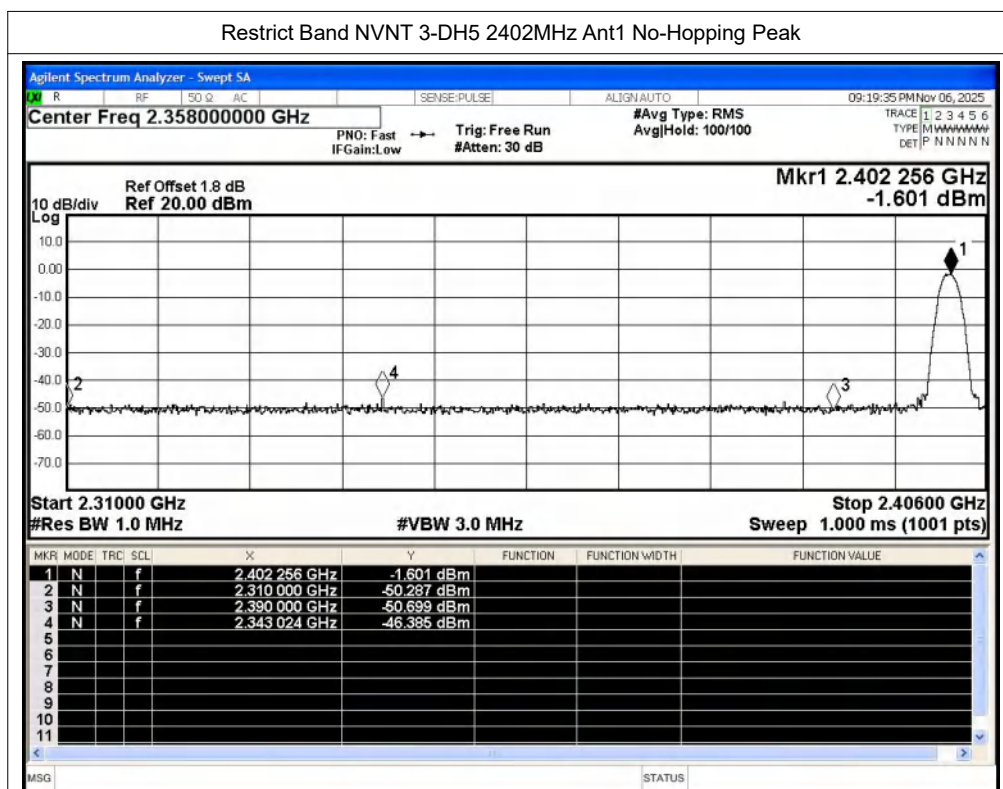


Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Peak

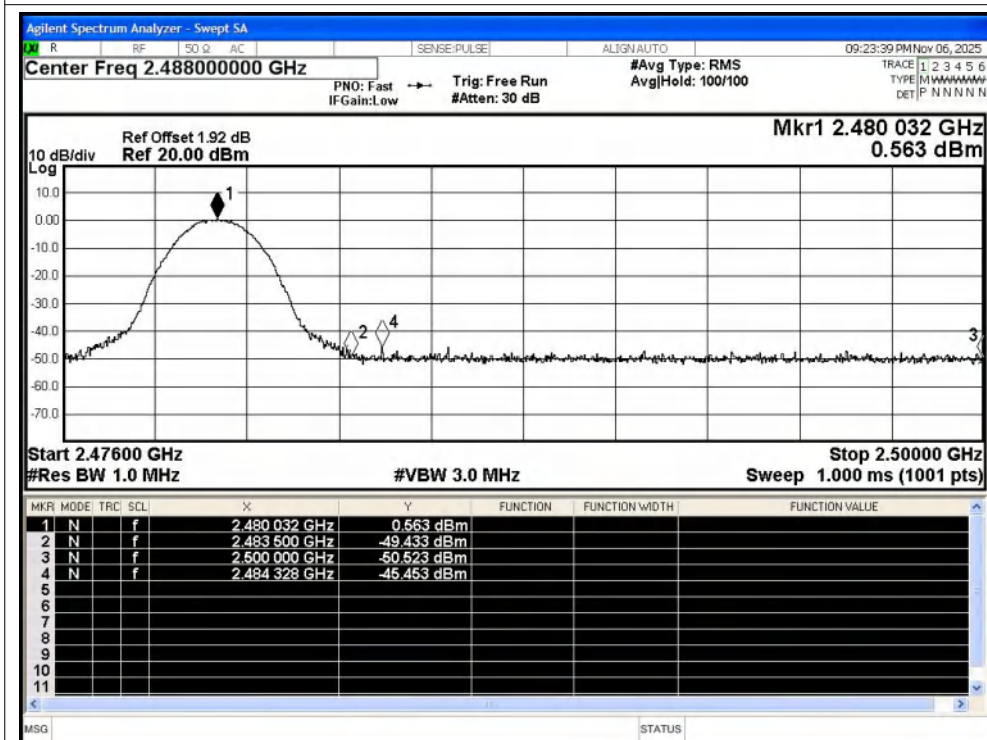


Restrict Band NVNT 2-DH5 2480MHz Ant1 No-Hopping Average





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



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

