

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: LED PROJECTOR

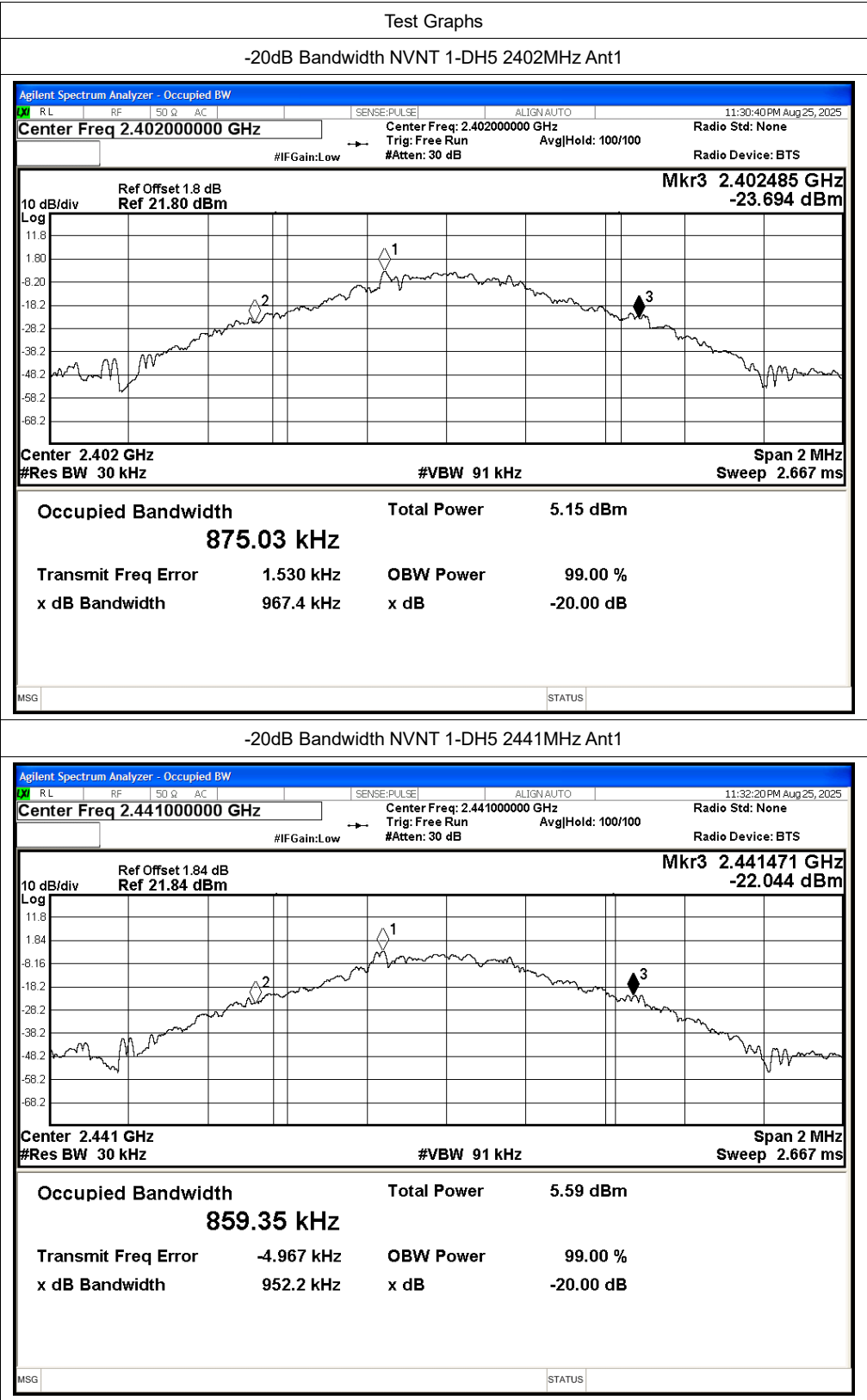
Test Model: Gimbal N6 Pro

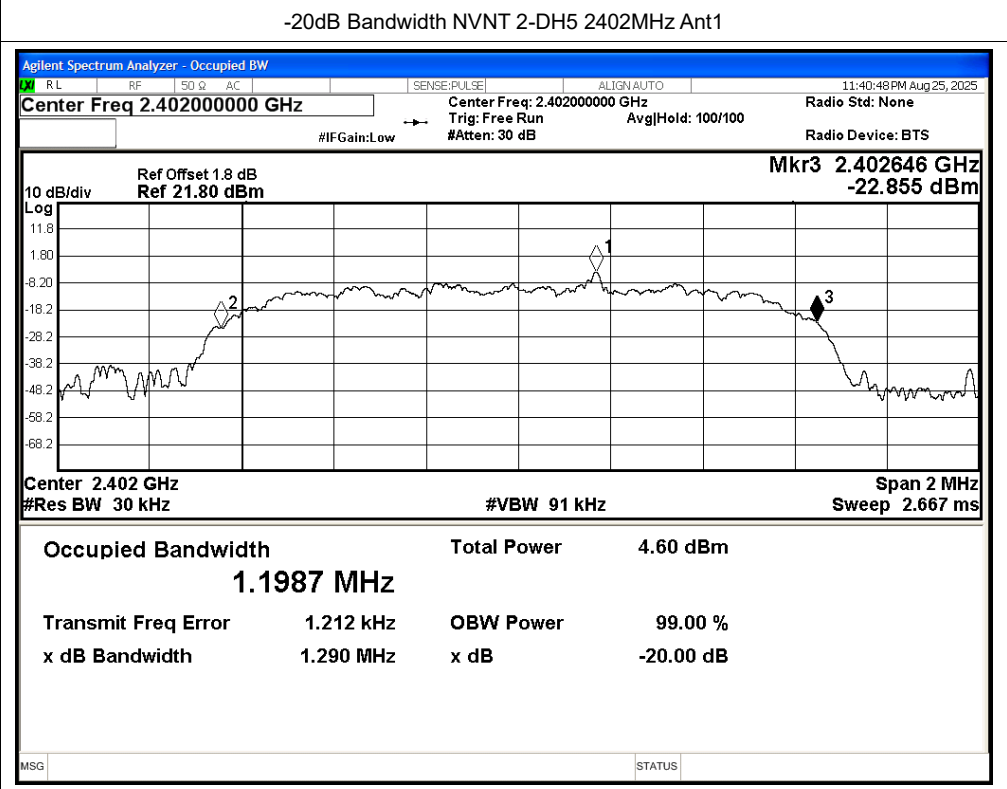
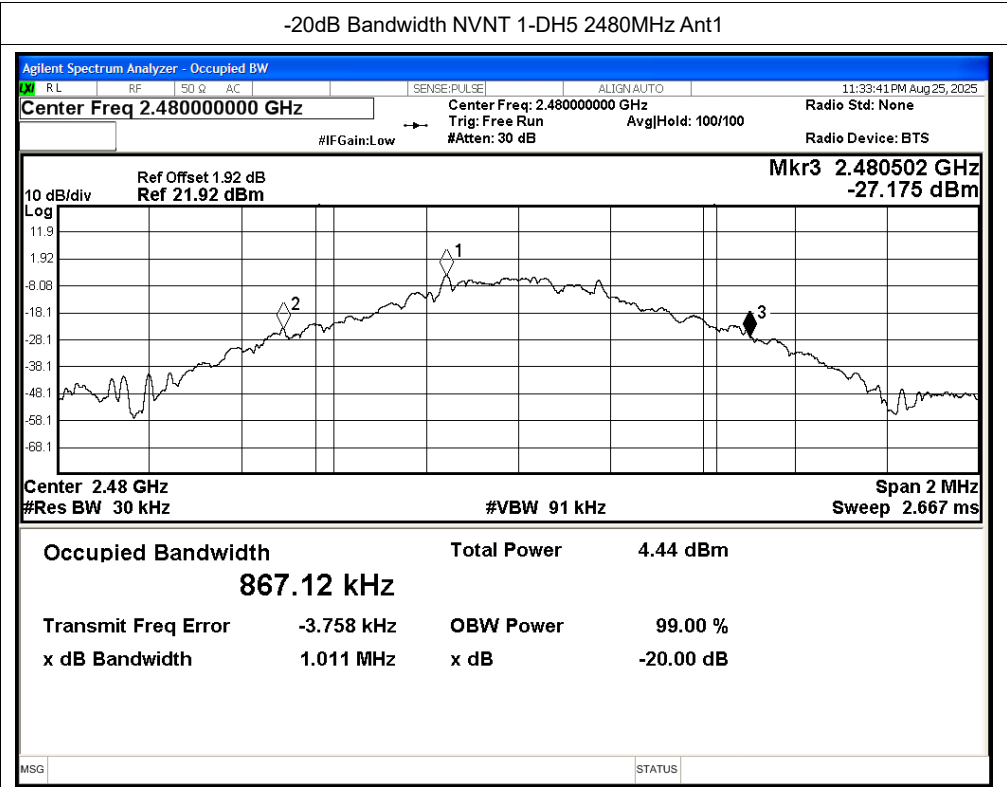
Environmental Conditions

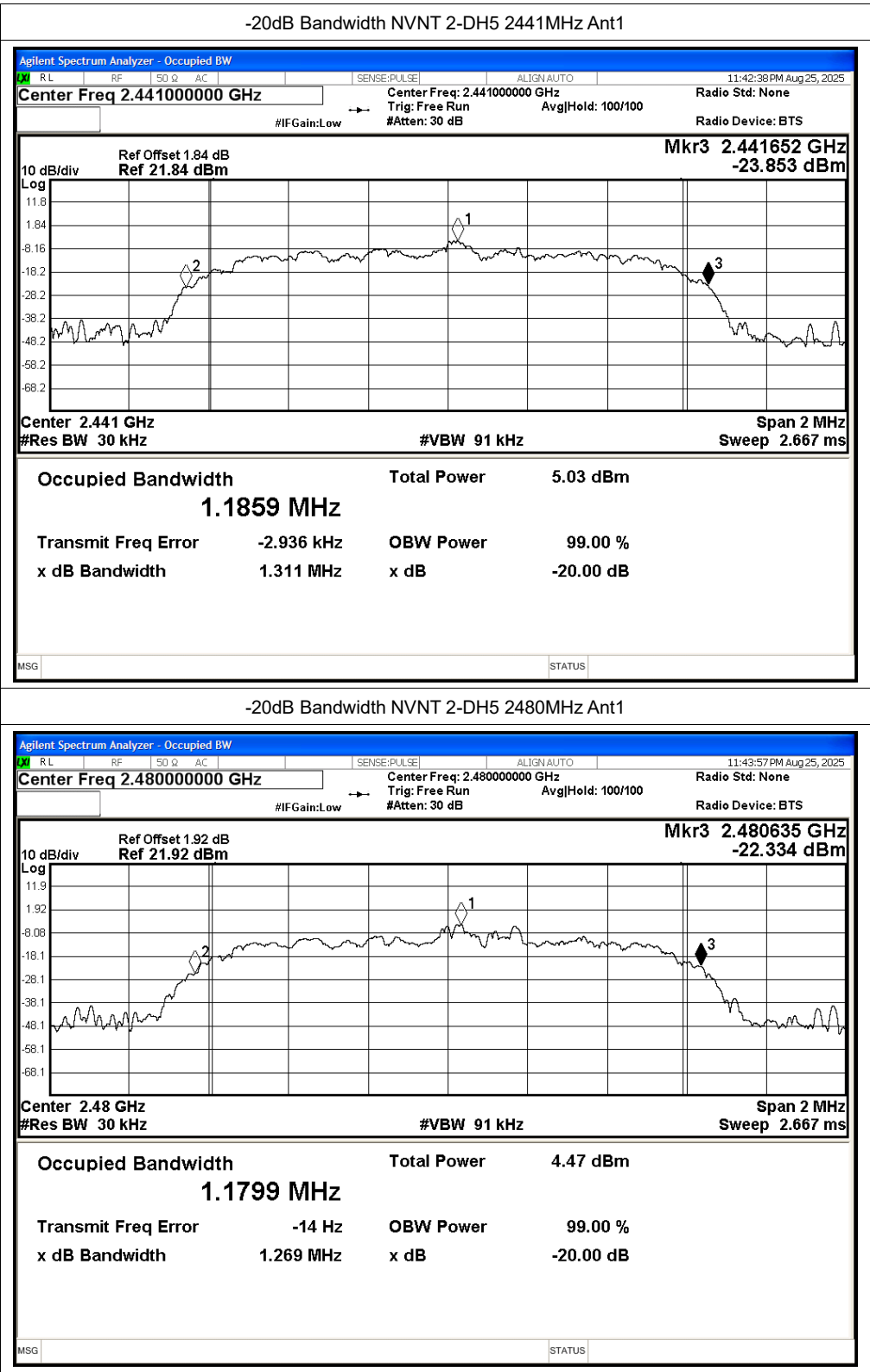
Temperature:	23.8°C
Relative Humidity:	52.9%
ATM Pressure:	100.0 kPa
Test Engineer:	Suichao Lai
Supervised by:	Yan Chen

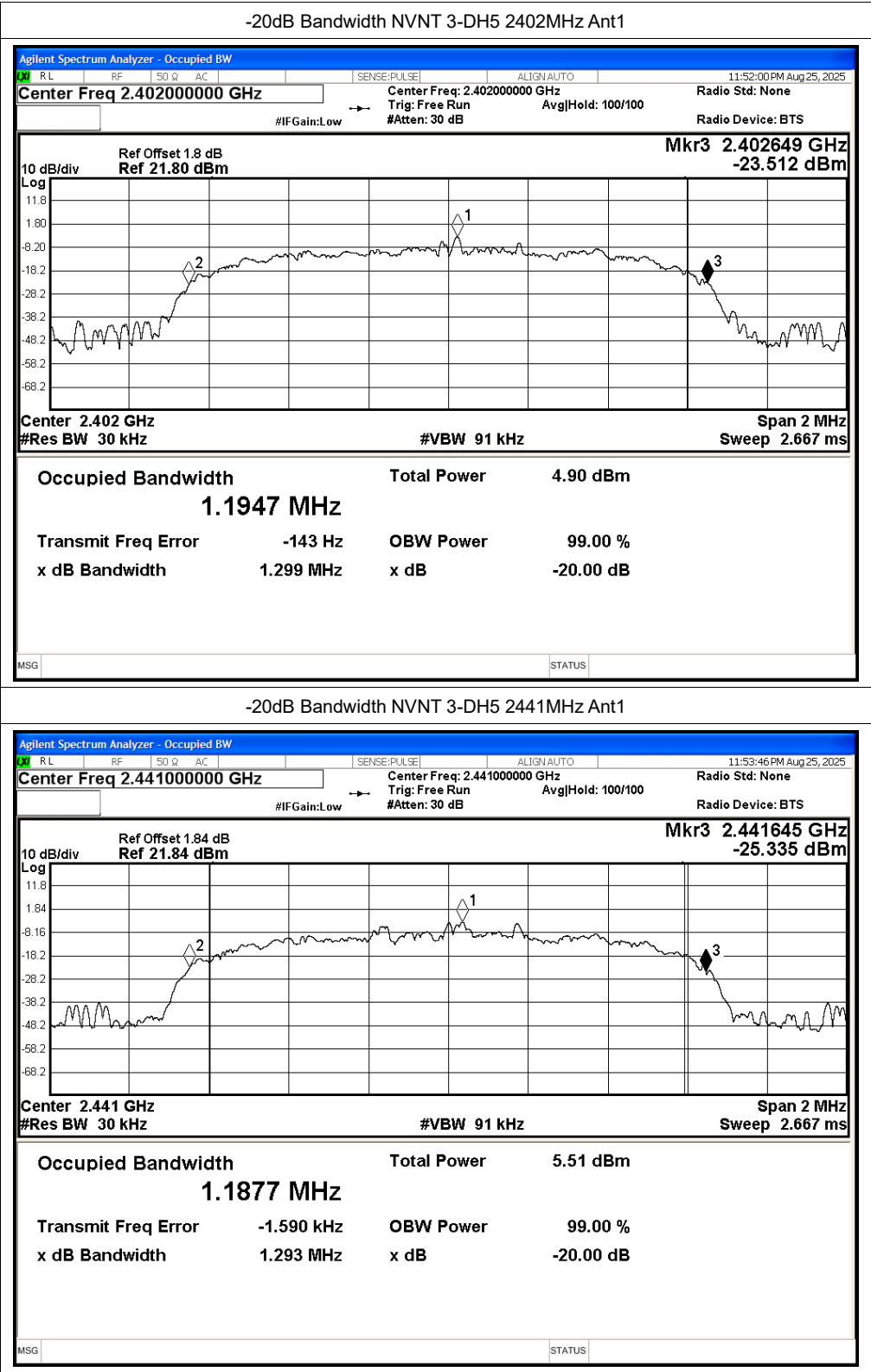
A.1 -20dB Bandwidth

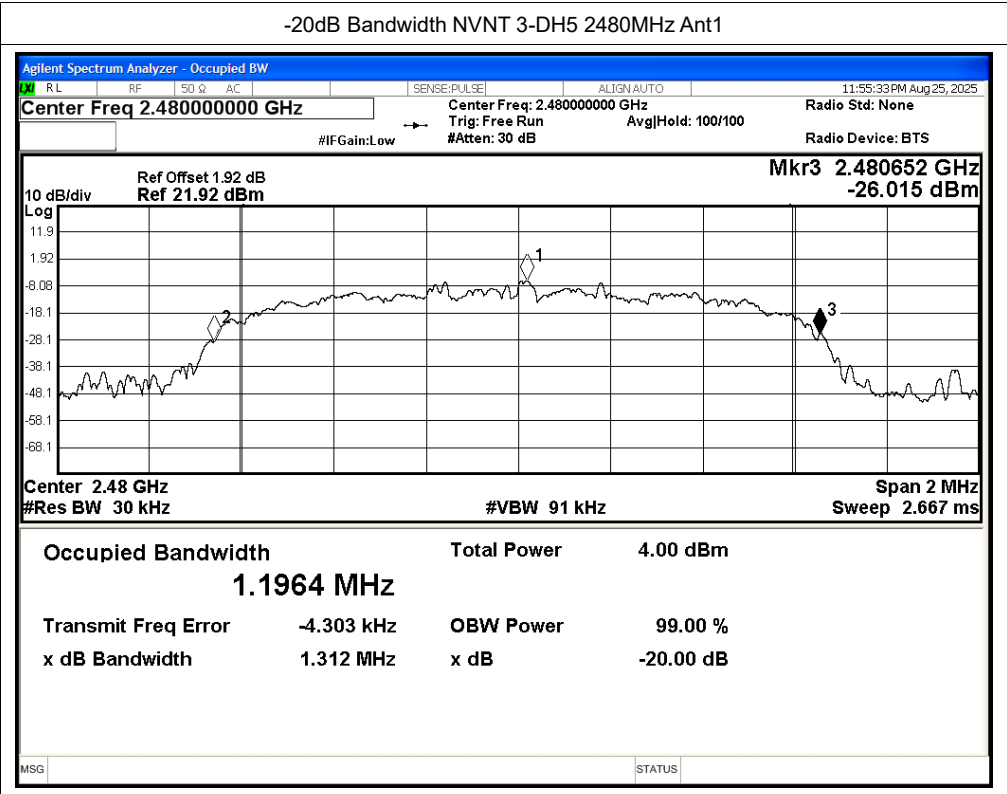
Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.967	N/A	Pass
NVNT	1-DH5	2441	Ant1	0.952	N/A	Pass
NVNT	1-DH5	2480	Ant1	1.011	N/A	Pass
NVNT	2-DH5	2402	Ant1	1.29	N/A	Pass
NVNT	2-DH5	2441	Ant1	1.311	N/A	Pass
NVNT	2-DH5	2480	Ant1	1.269	N/A	Pass
NVNT	3-DH5	2402	Ant1	1.299	N/A	Pass
NVNT	3-DH5	2441	Ant1	1.293	N/A	Pass
NVNT	3-DH5	2480	Ant1	1.312	N/A	Pass









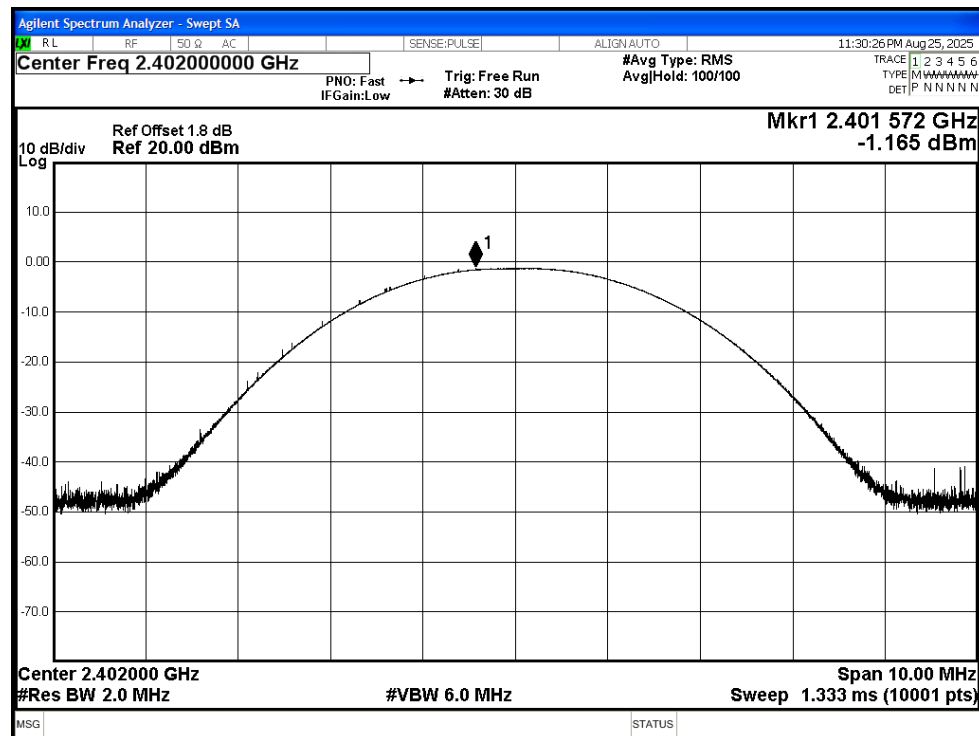


A.2 Maximum Peak Conducted Output Power

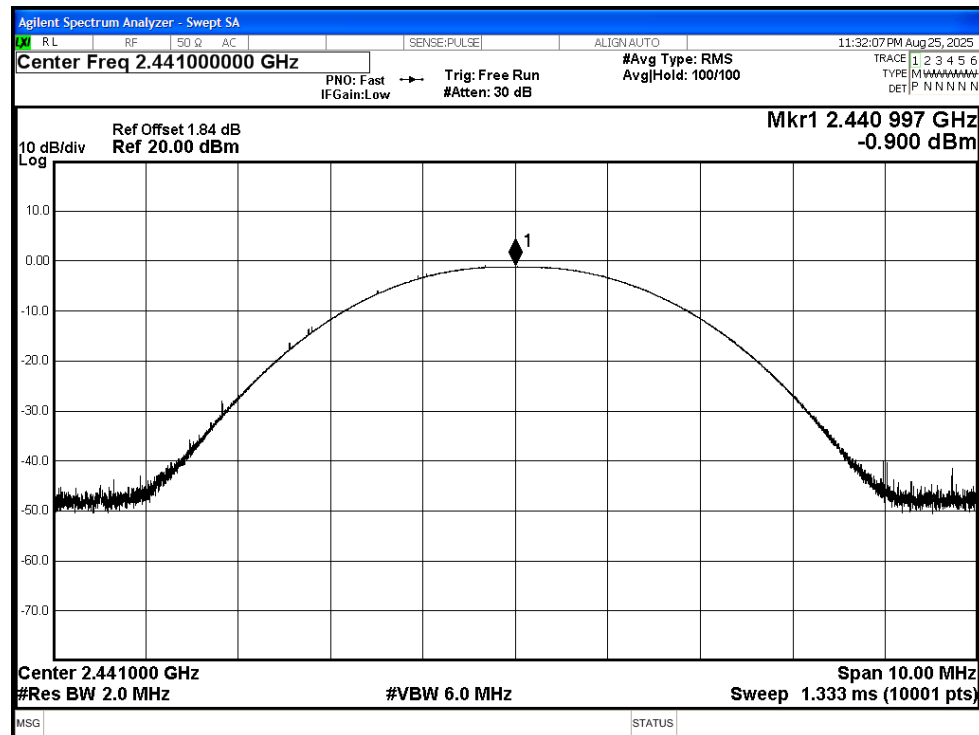
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	1-DH5	2402	Ant1	-1.17	21	Pass
NVNT	1-DH5	2441	Ant1	-0.9	21	Pass
NVNT	1-DH5	2480	Ant1	-1.95	21	Pass
NVNT	2-DH5	2402	Ant1	0.82	21	Pass
NVNT	2-DH5	2441	Ant1	0.99	21	Pass
NVNT	2-DH5	2480	Ant1	-0.09	21	Pass
NVNT	3-DH5	2402	Ant1	1.19	21	Pass
NVNT	3-DH5	2441	Ant1	1.39	21	Pass
NVNT	3-DH5	2480	Ant1	0.25	21	Pass

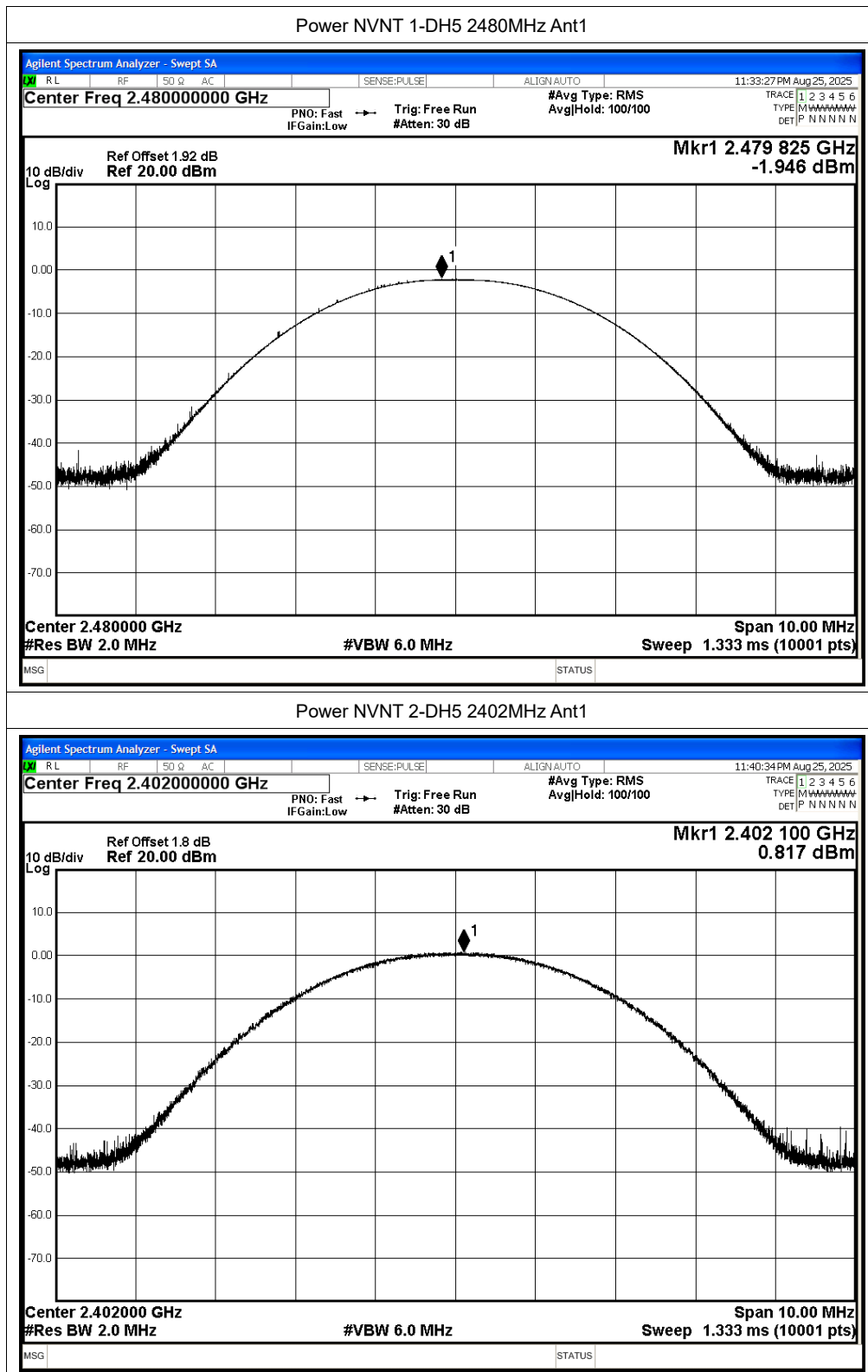
Test Graphs

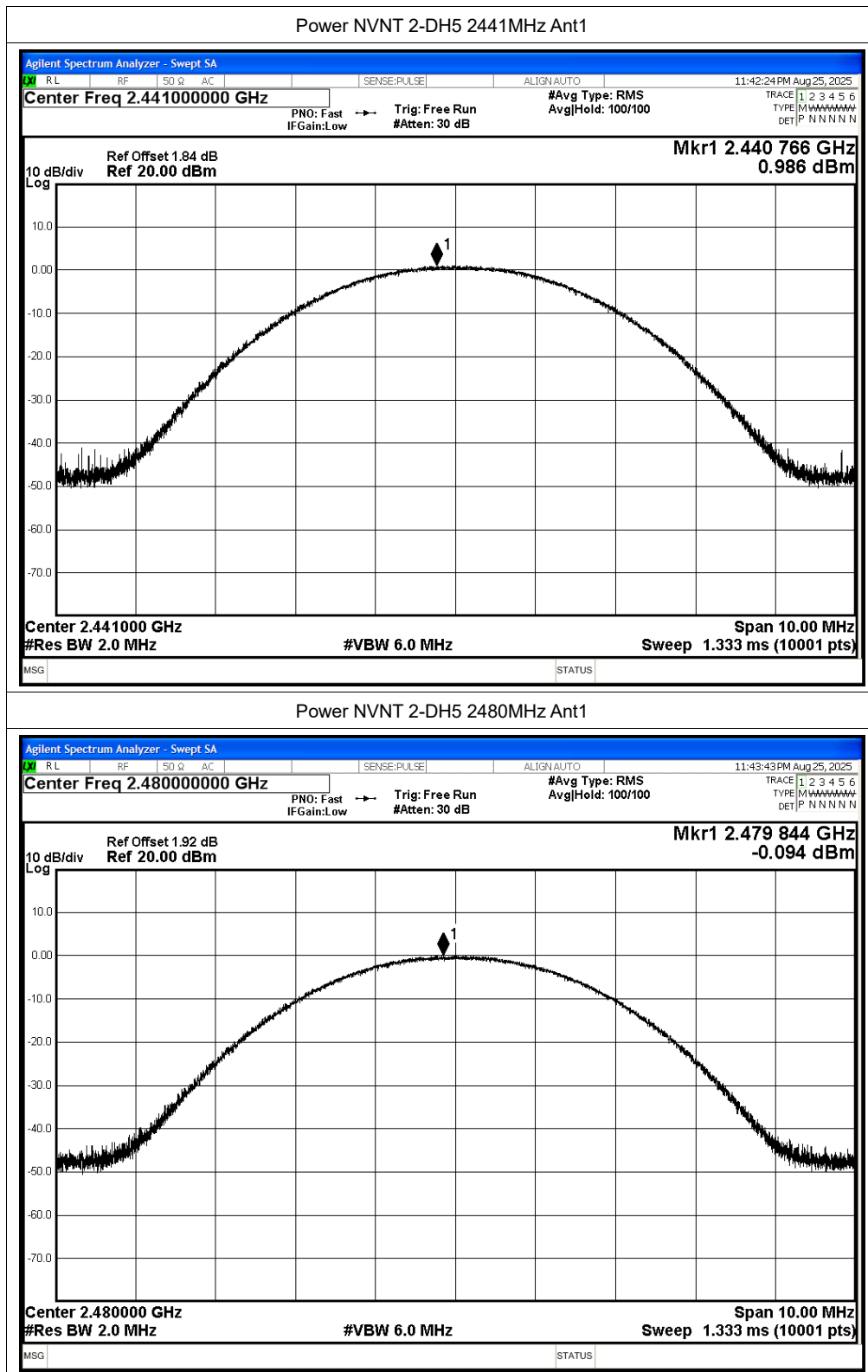
Power NVNT 1-DH5 2402MHz Ant1

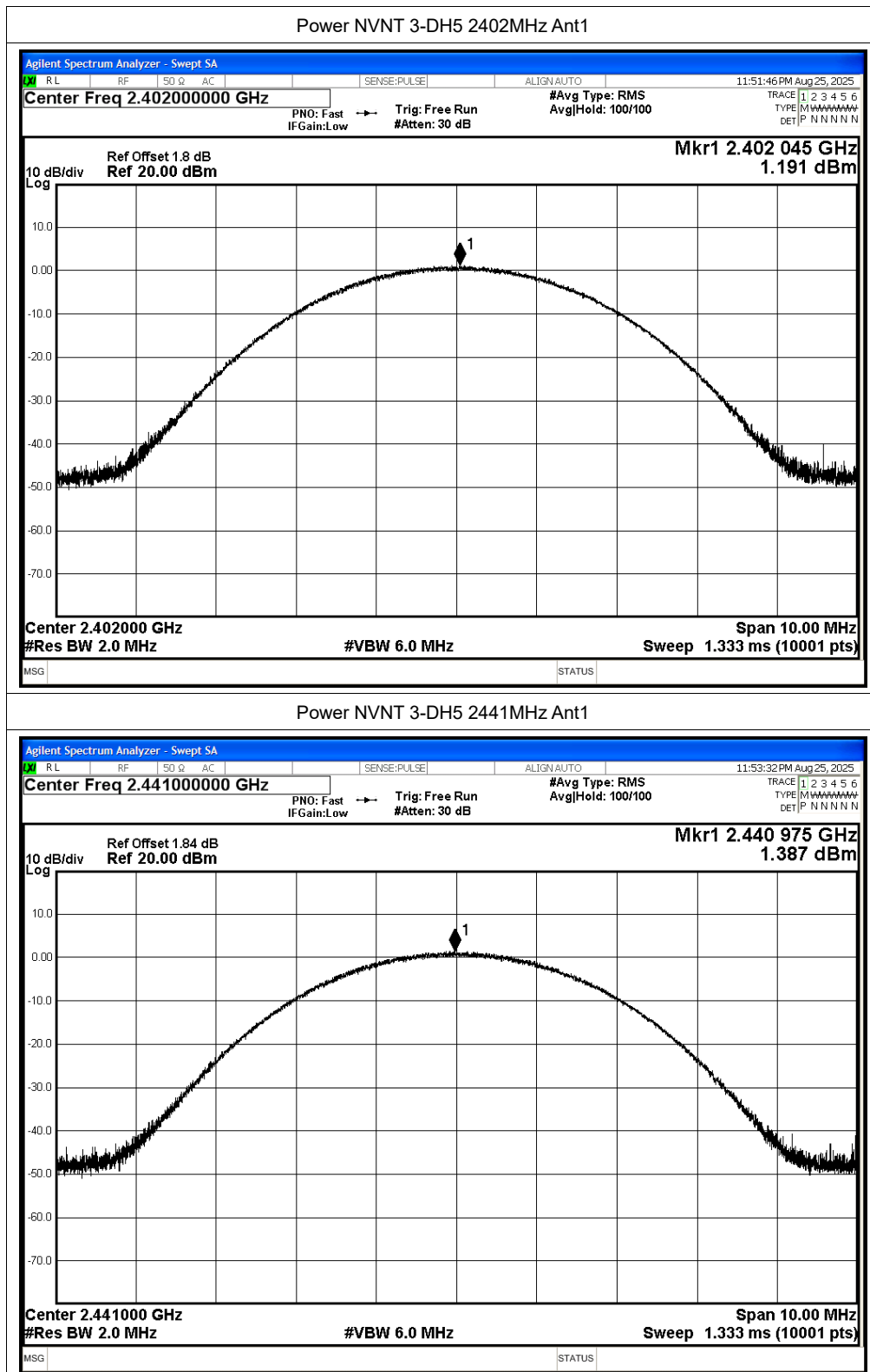


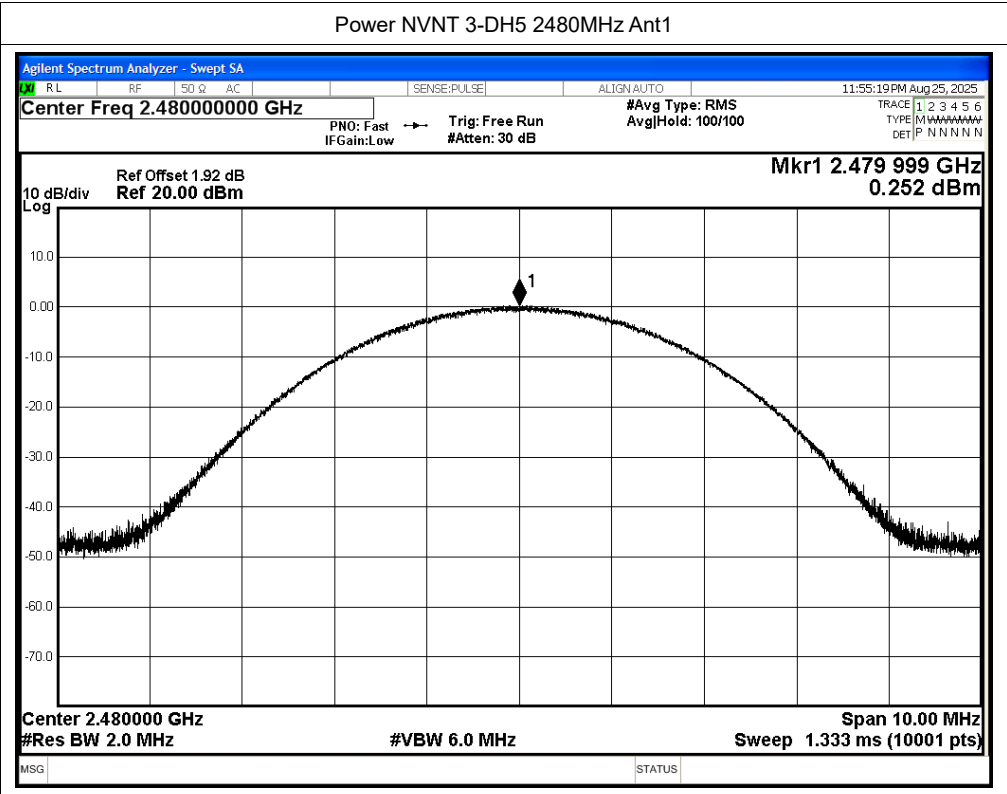
Power NVNT 1-DH5 2441MHz Ant1





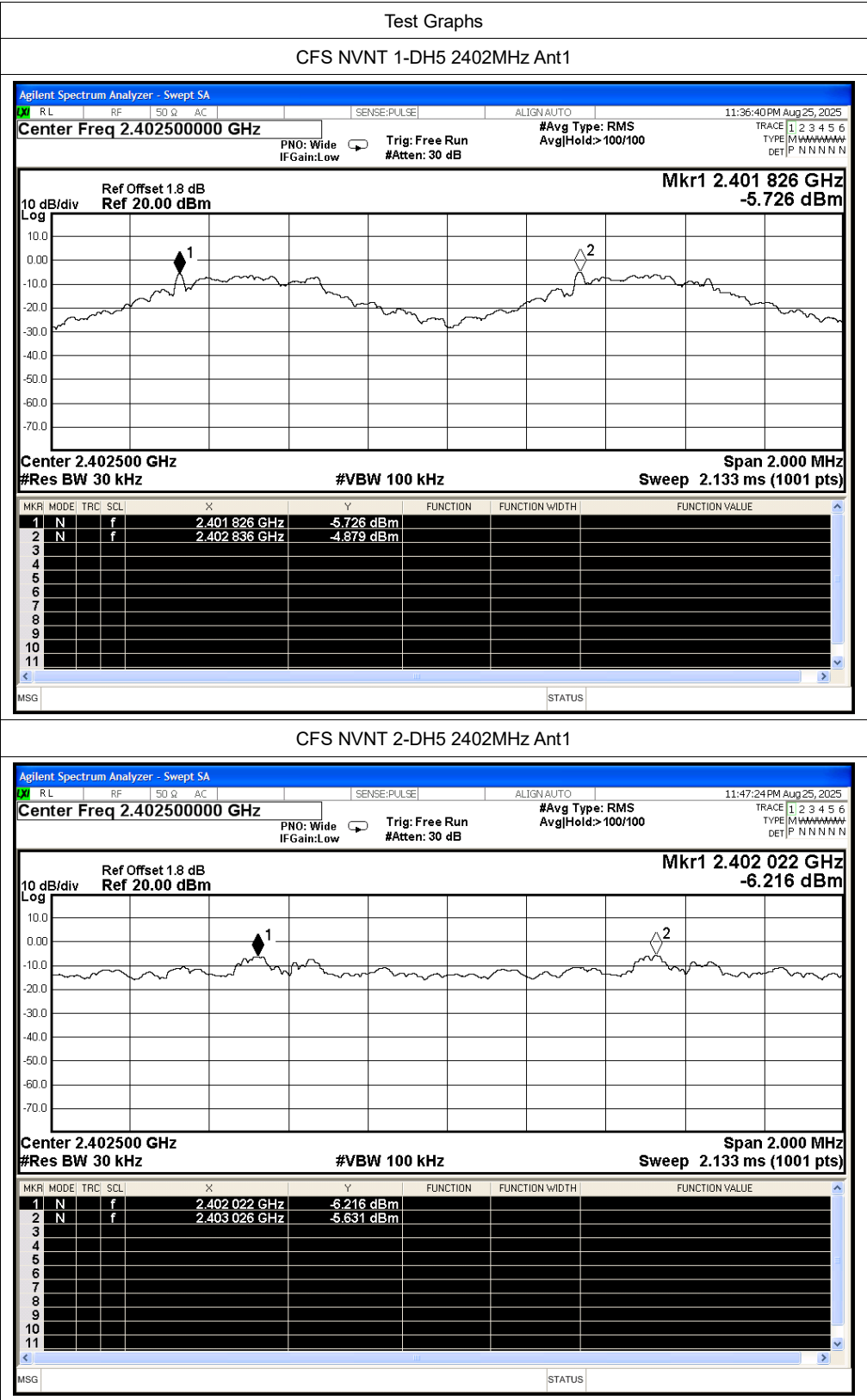


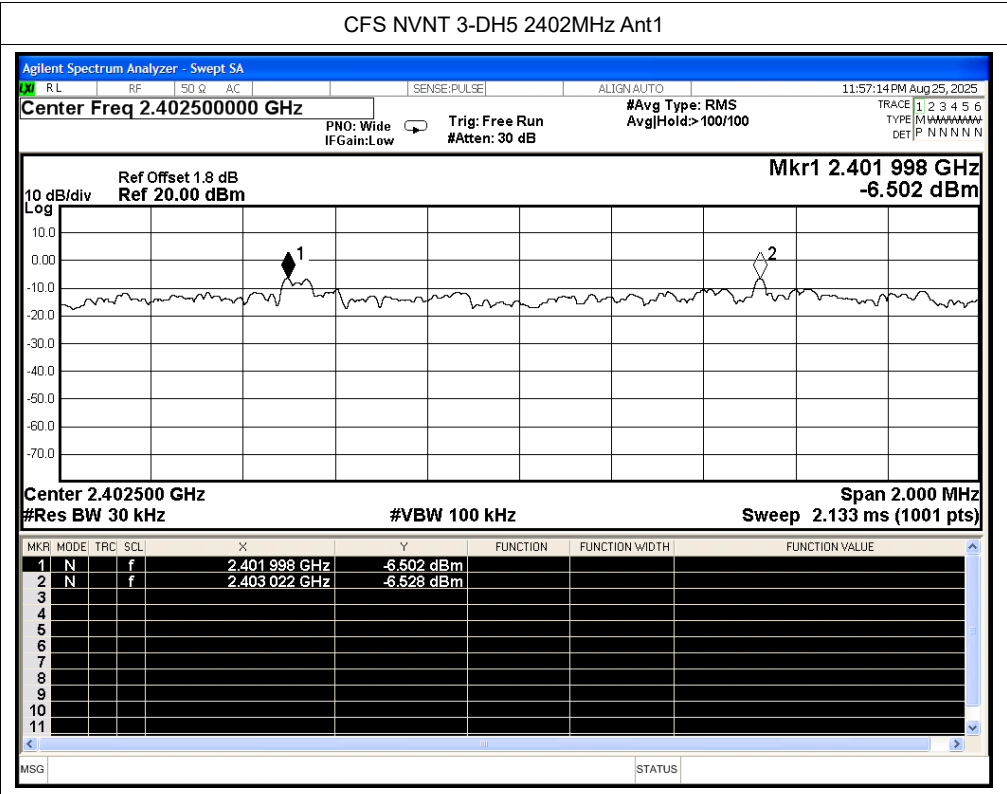




A.3 Carrier Frequencies Separation

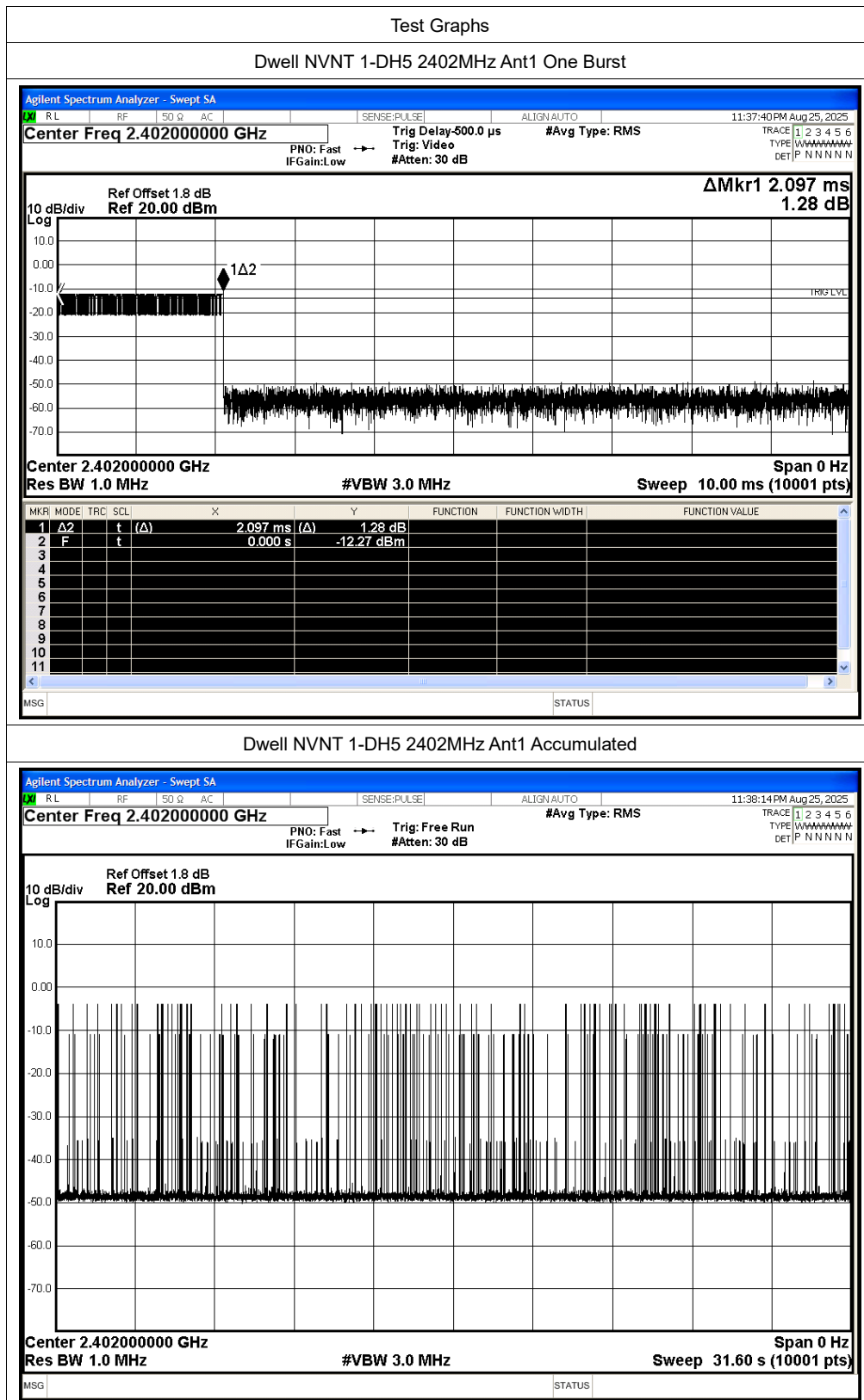
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2401.826	2402.836	1.01	0.674	Pass
NVNT	2-DH5	Ant1	2402.022	2403.026	1.004	0.874	Pass
NVNT	3-DH5	Ant1	2401.998	2403.022	1.024	0.875	Pass

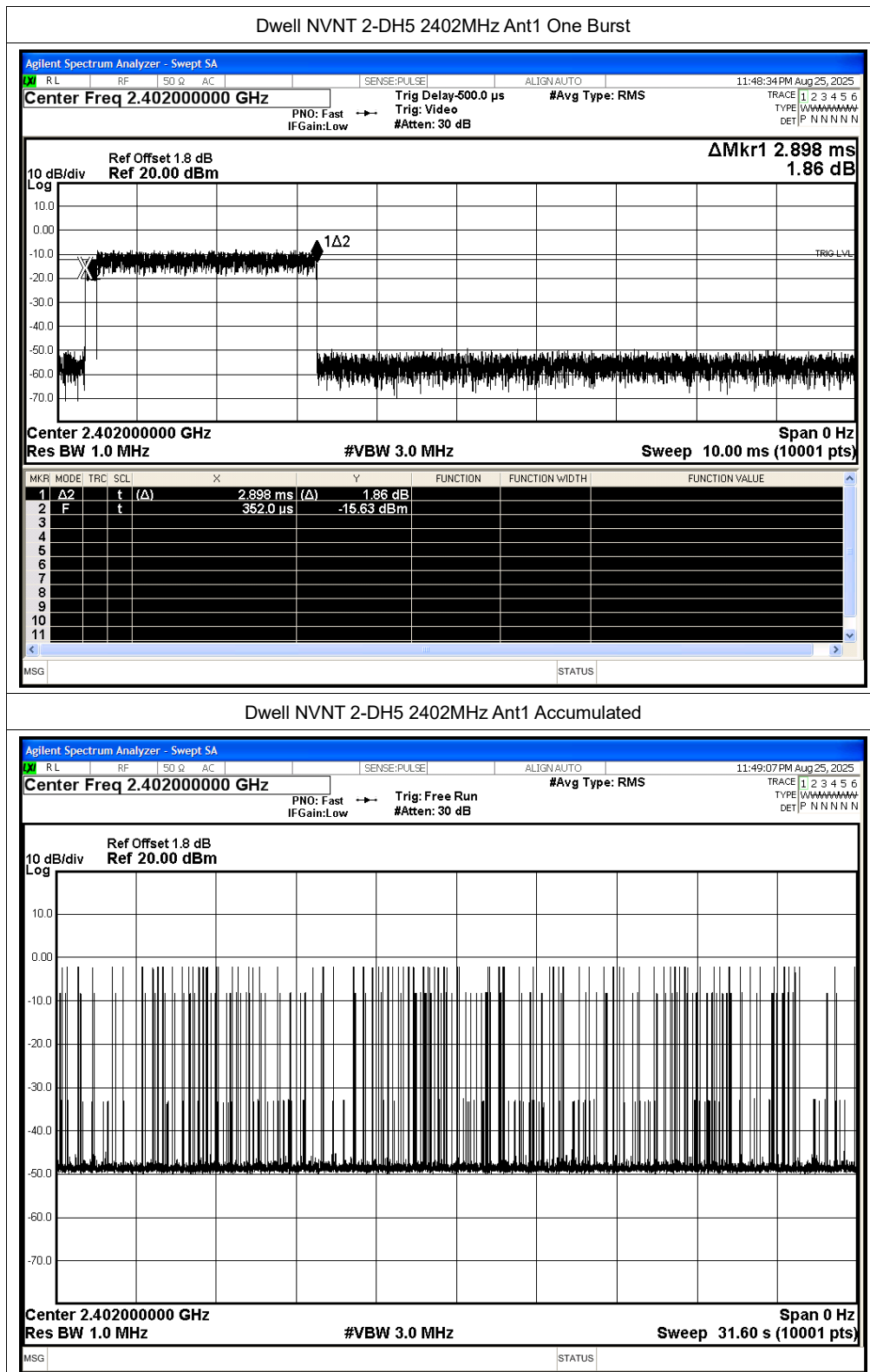


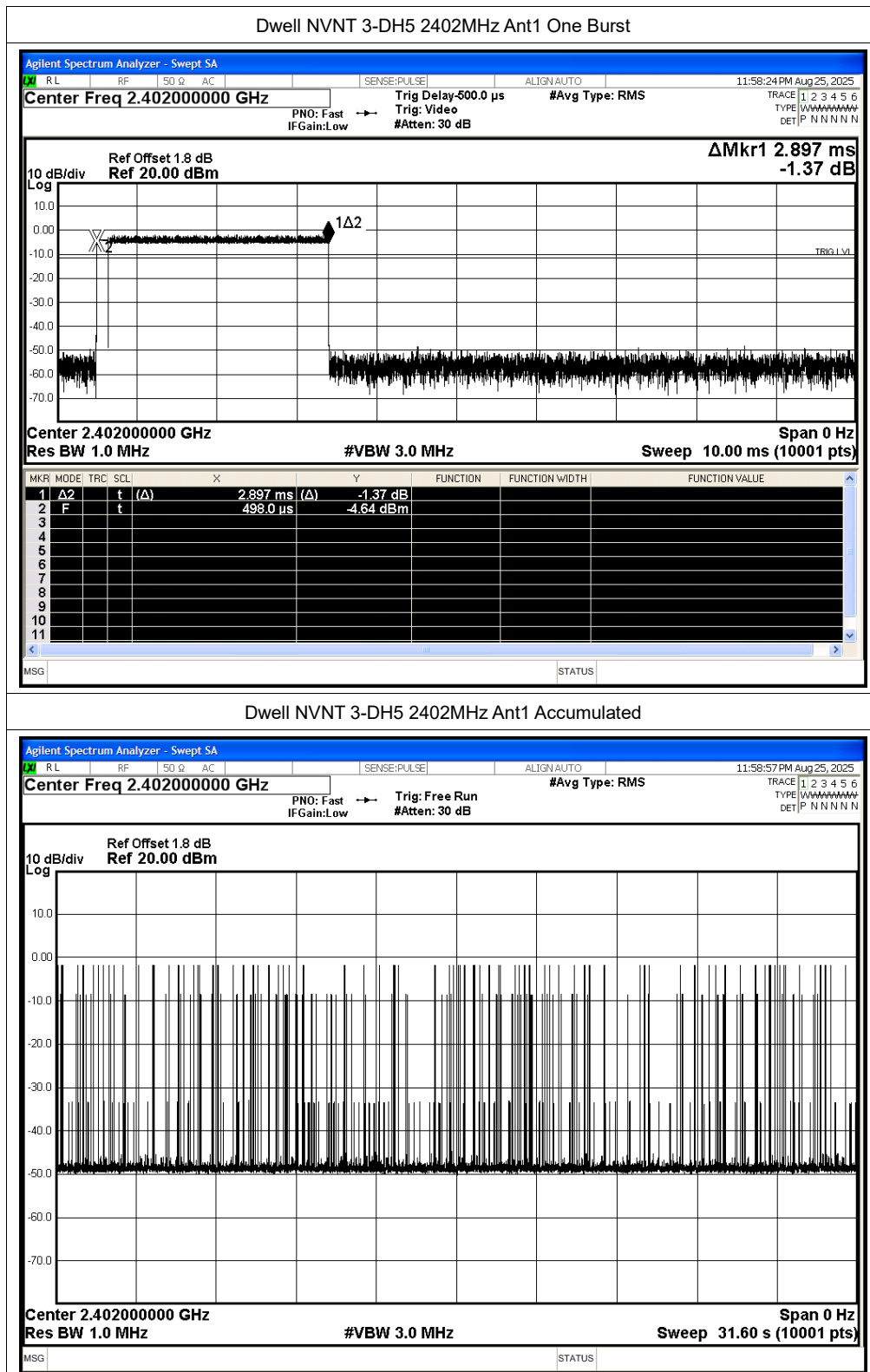


A.4 Dwell Time

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	2.097	213.894	102	31600	400	Pass
NVNT	2-DH5	2402	Ant1	2.898	310.086	107	31600	400	Pass
NVNT	3-DH5	2402	Ant1	2.897	283.906	98	31600	400	Pass

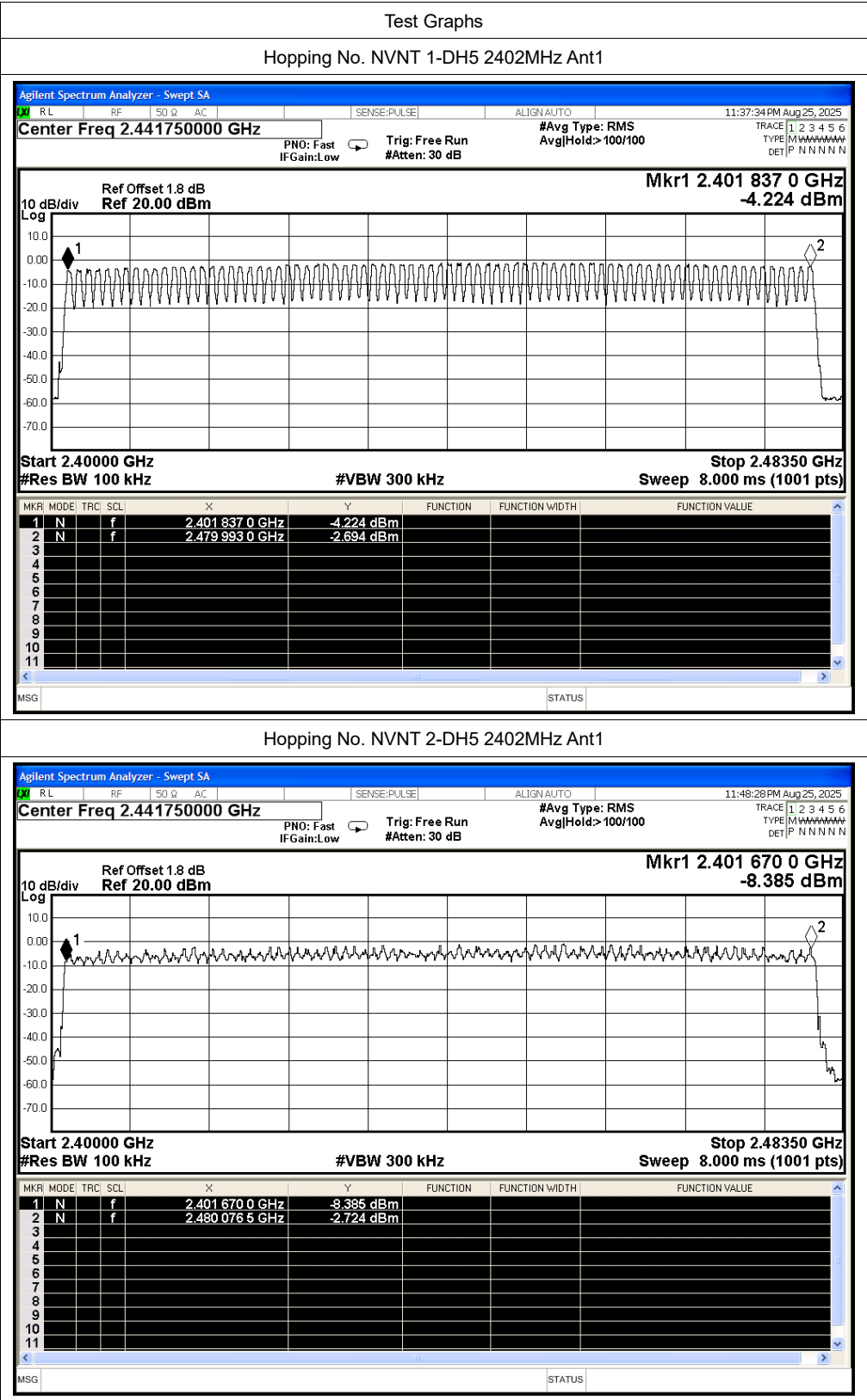


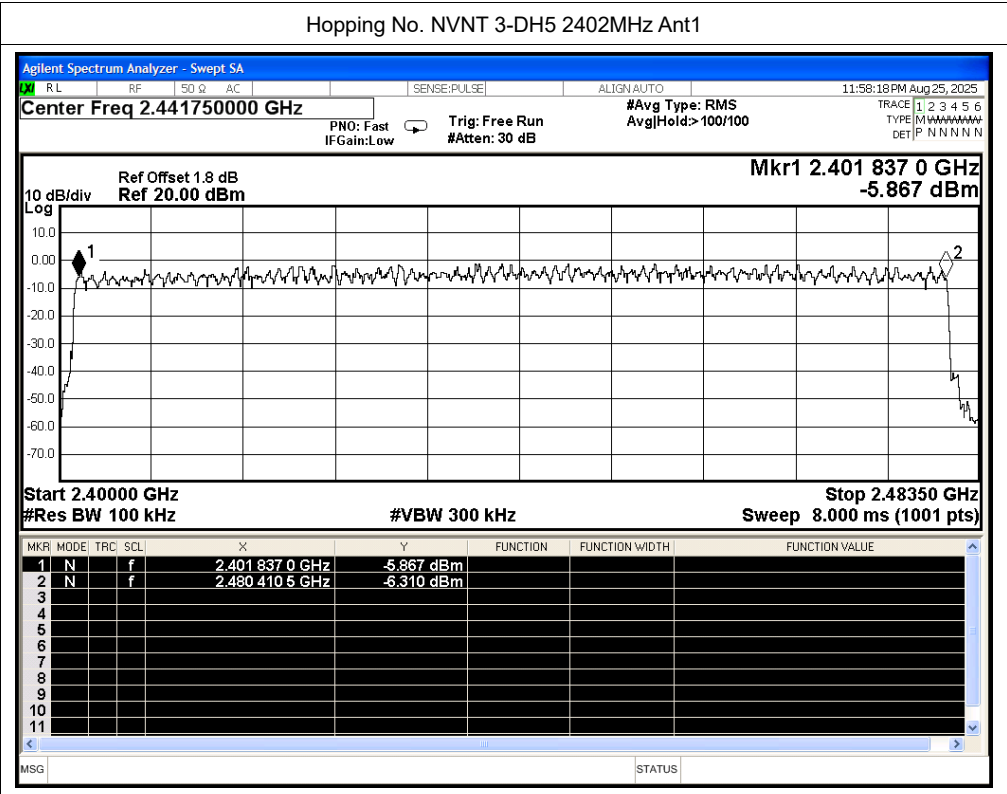




A.5 Number of Hopping Channel

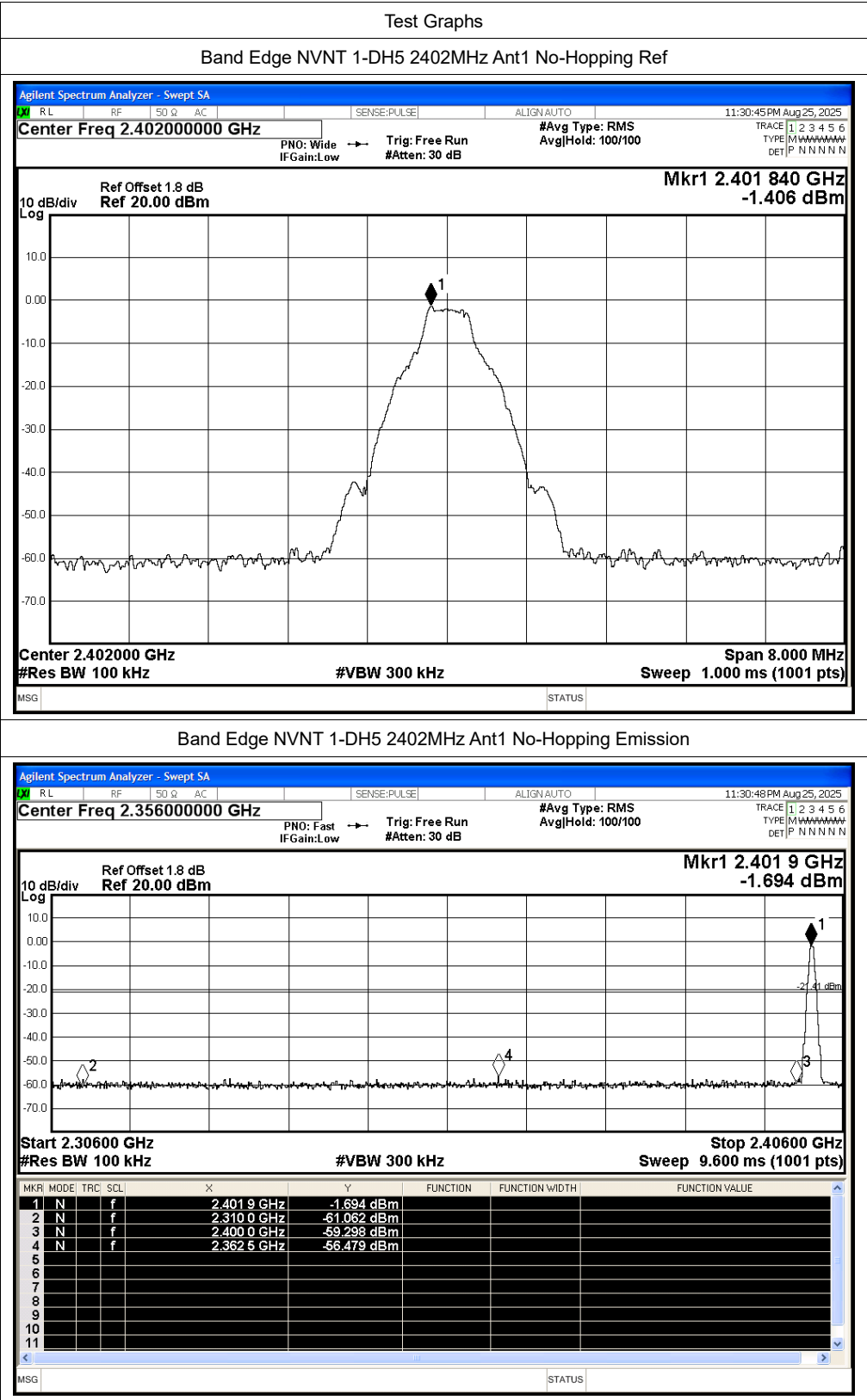
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass

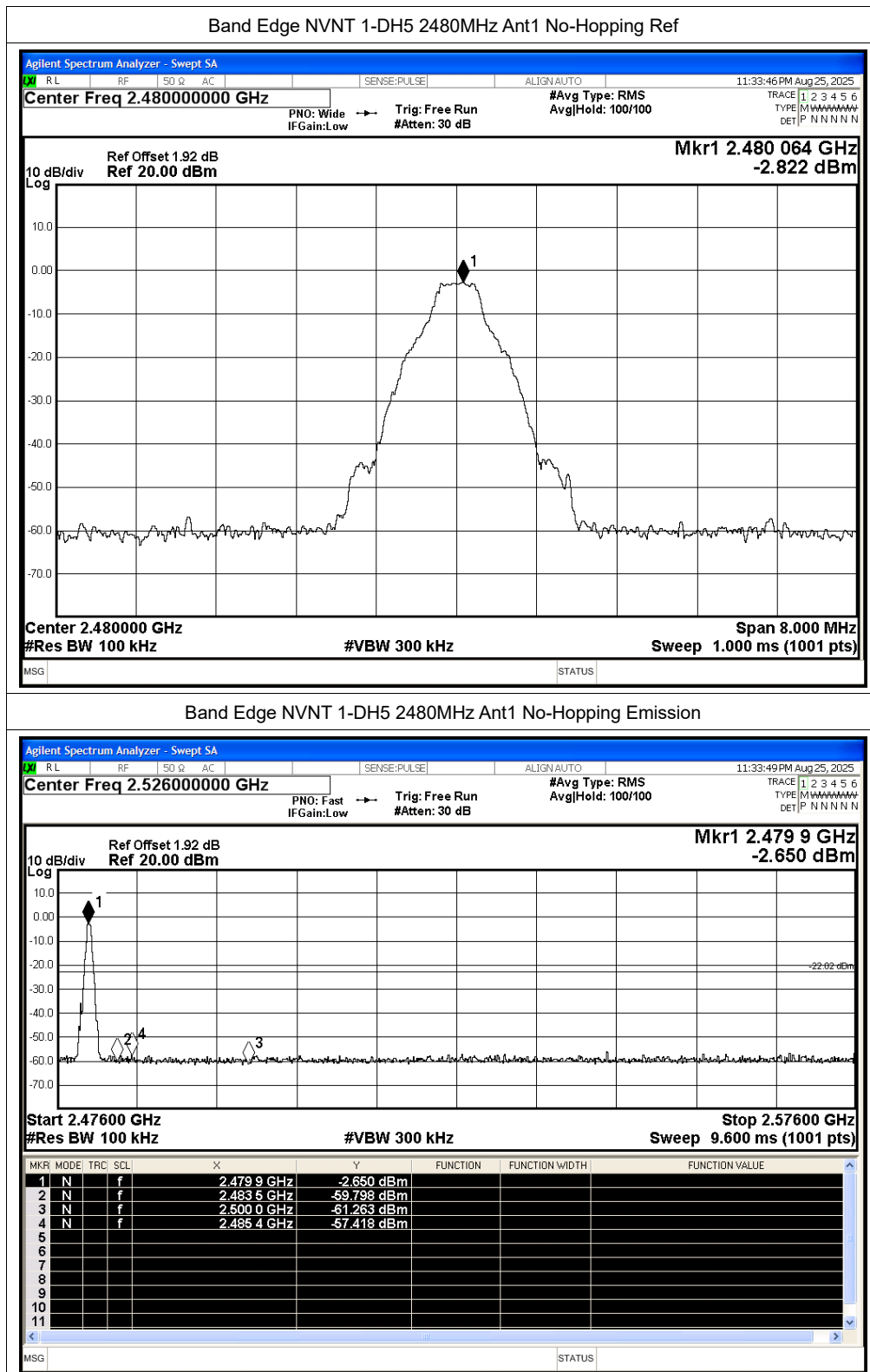


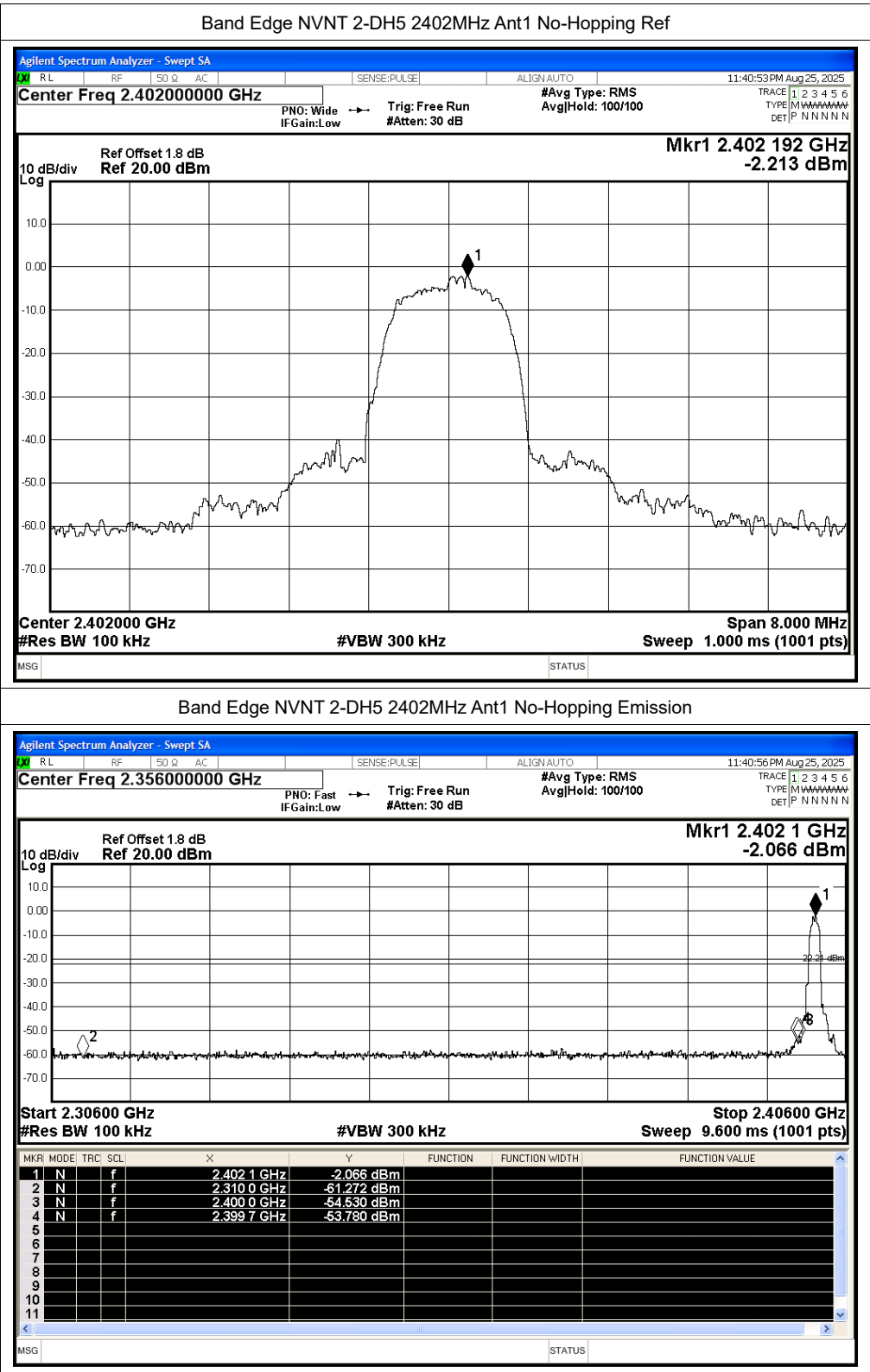


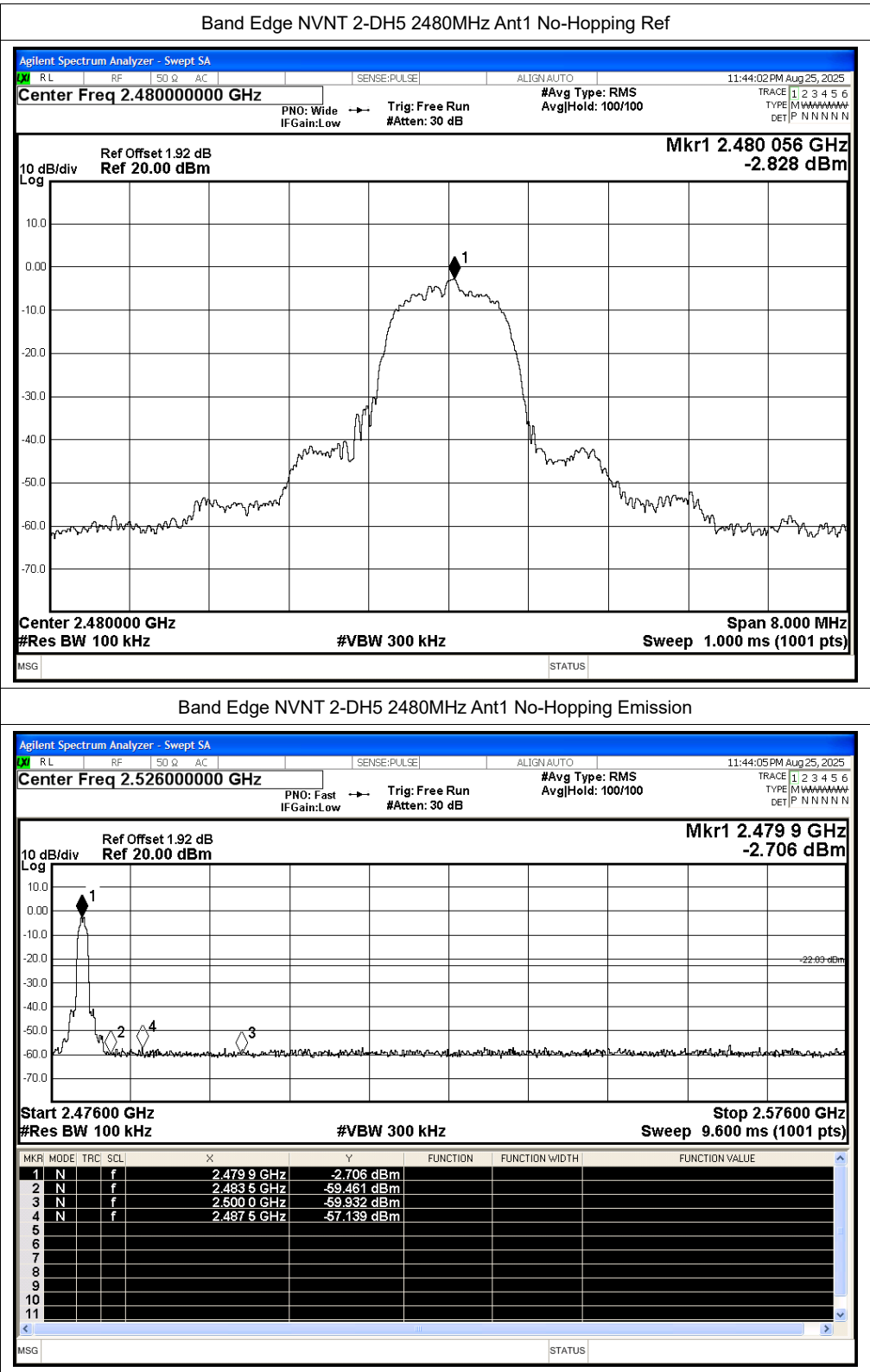
A.6 Band Edge

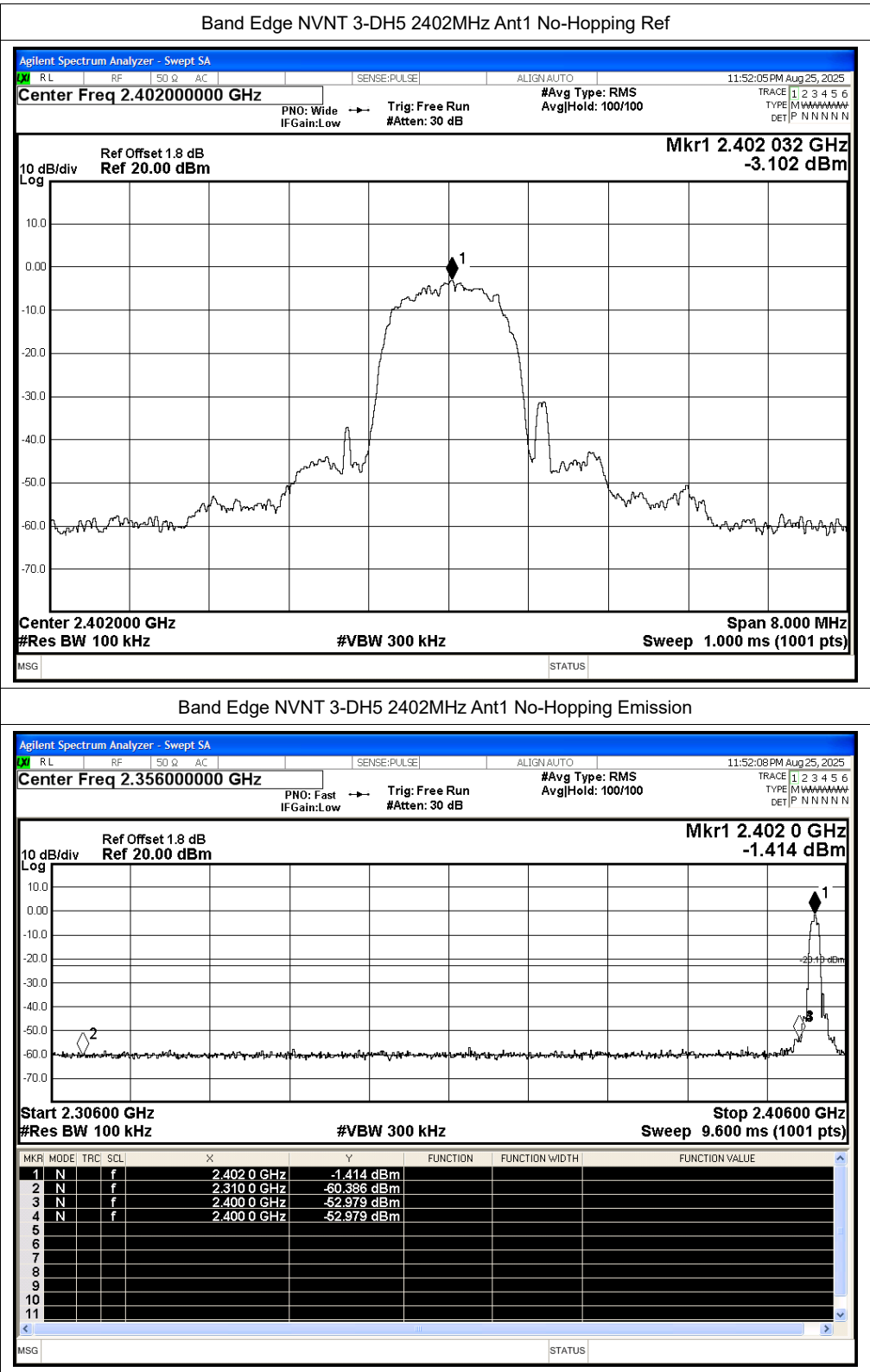
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-55.07	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-54.6	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-51.57	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-54.31	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-49.88	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-54.73	-20	Pass

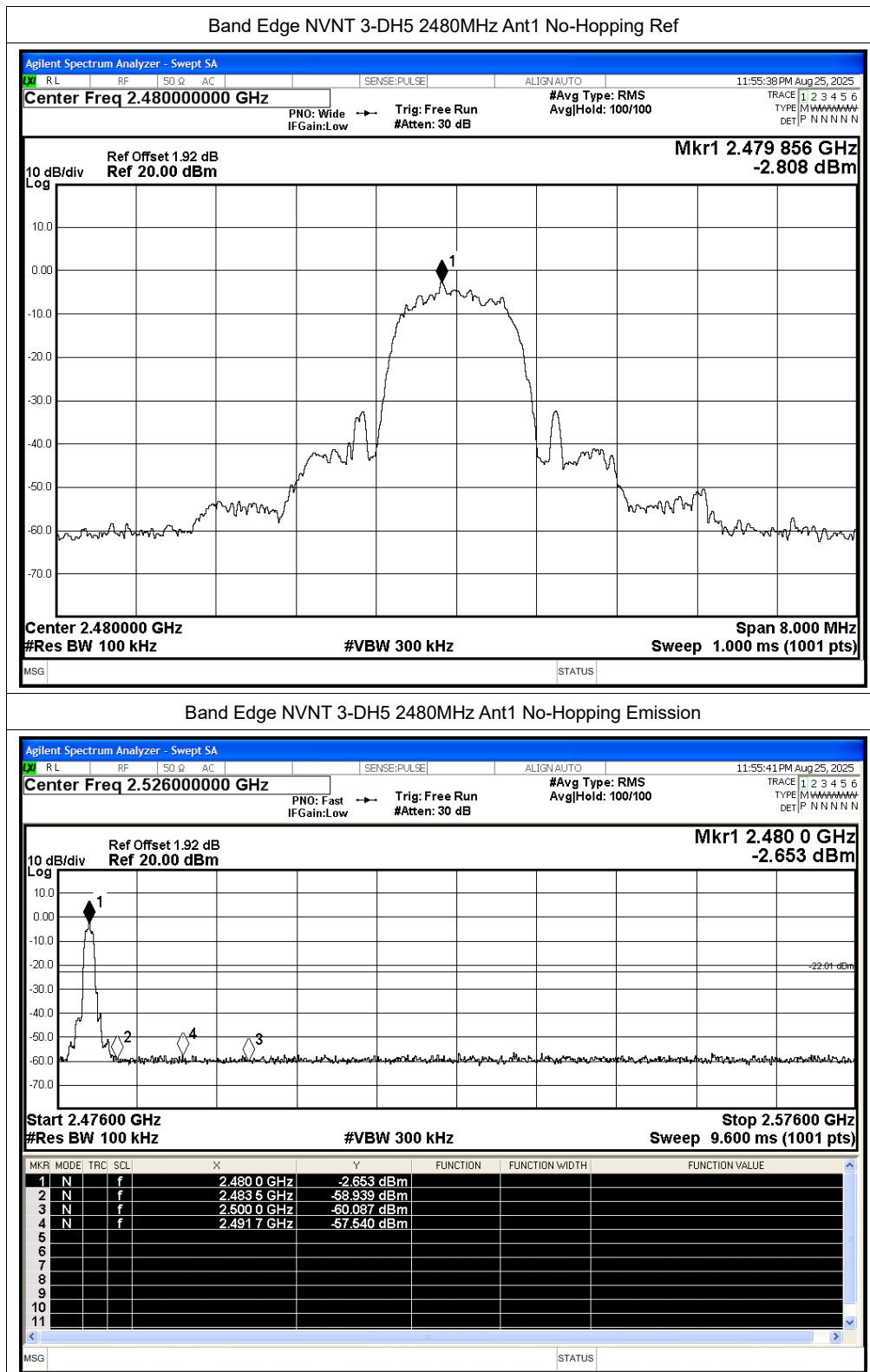






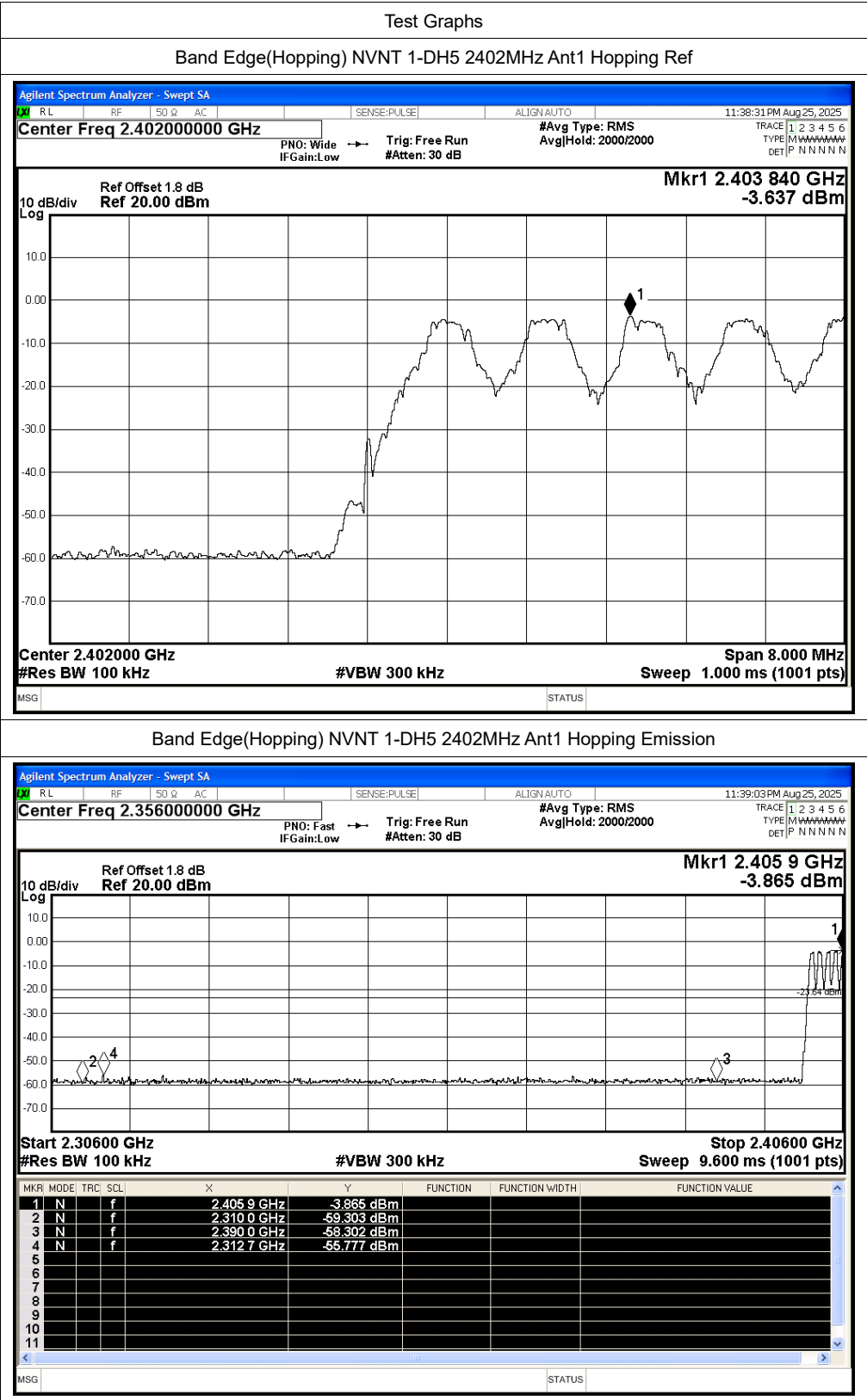


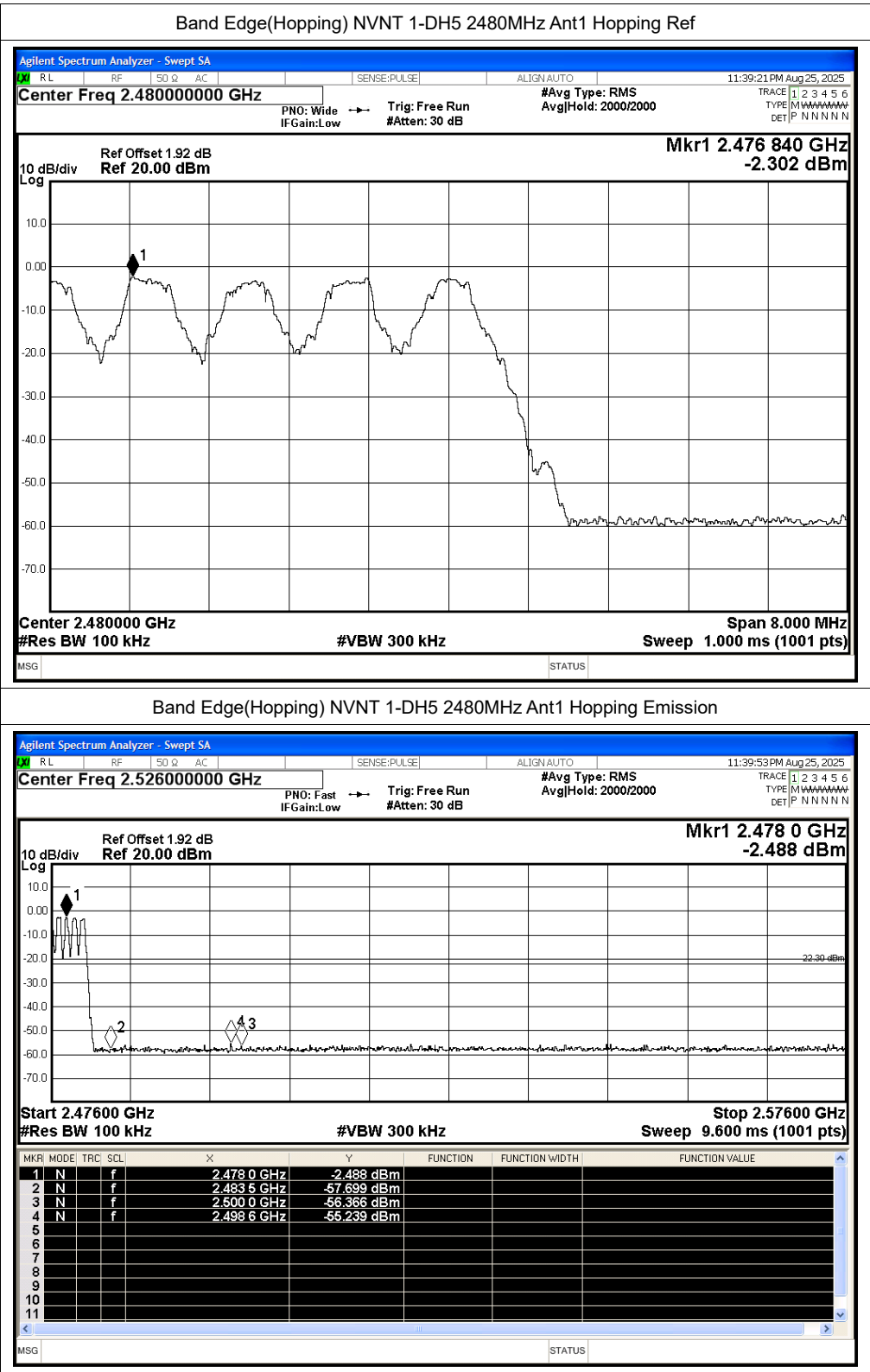


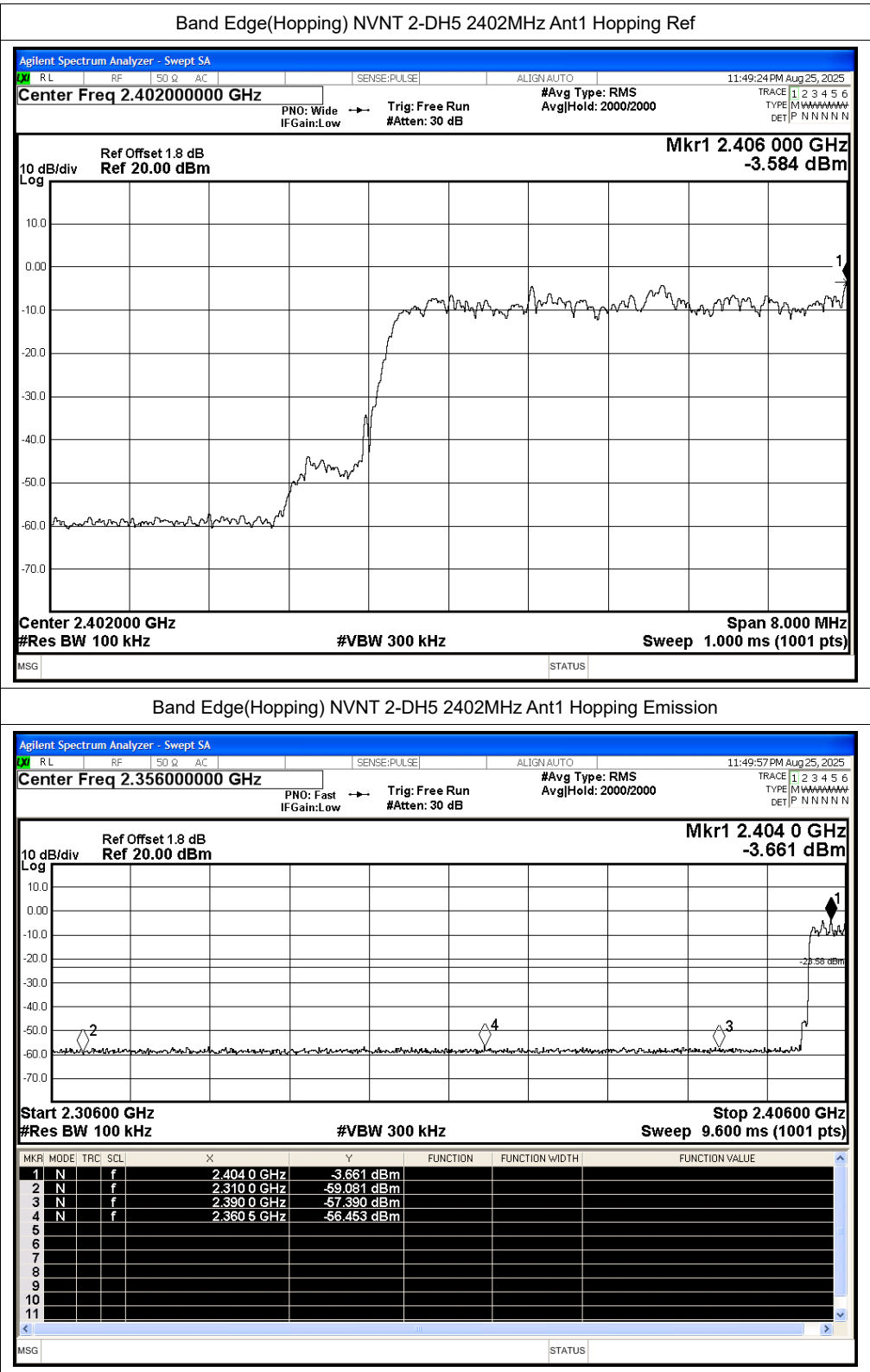


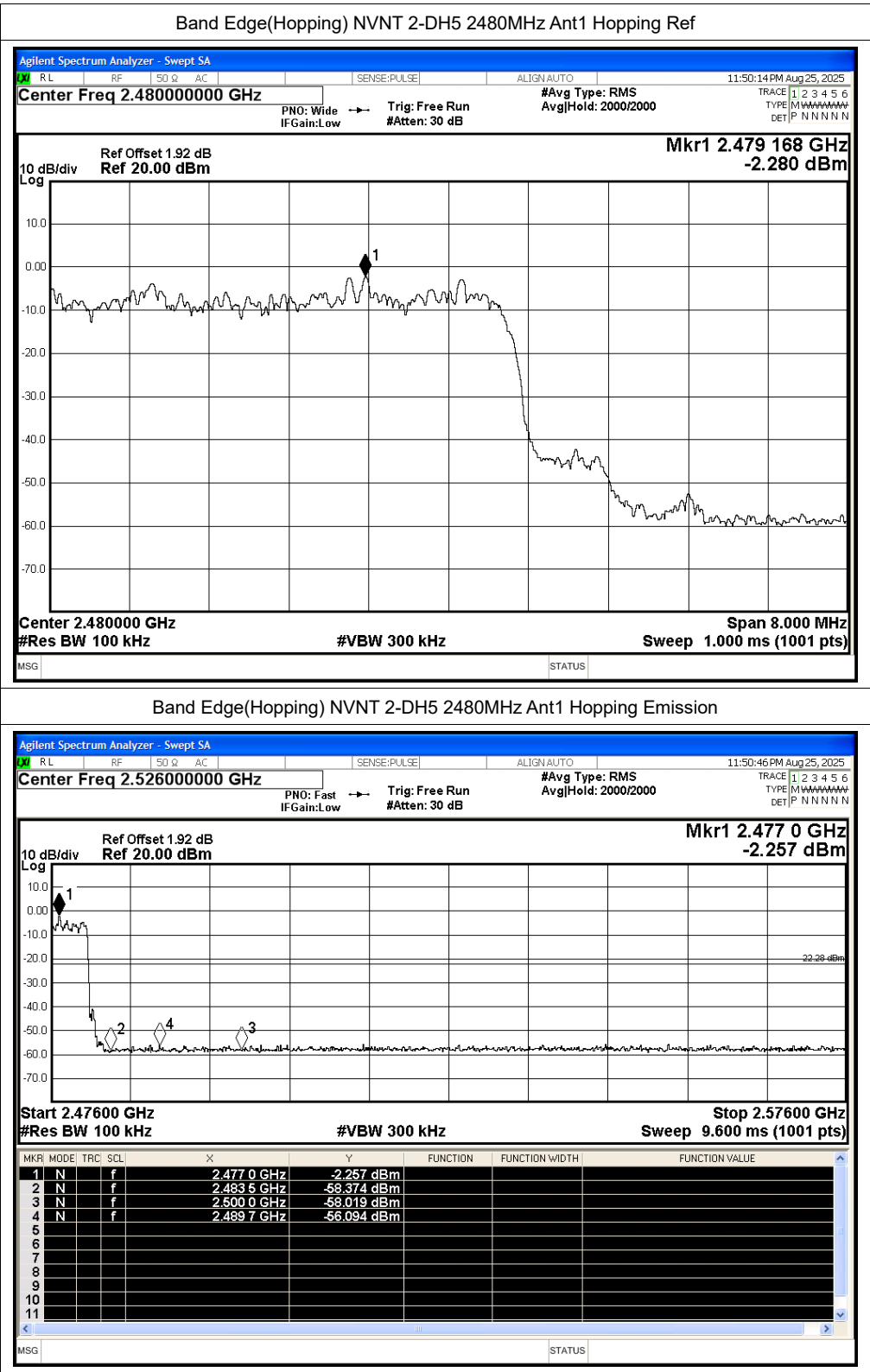
(Hopping)

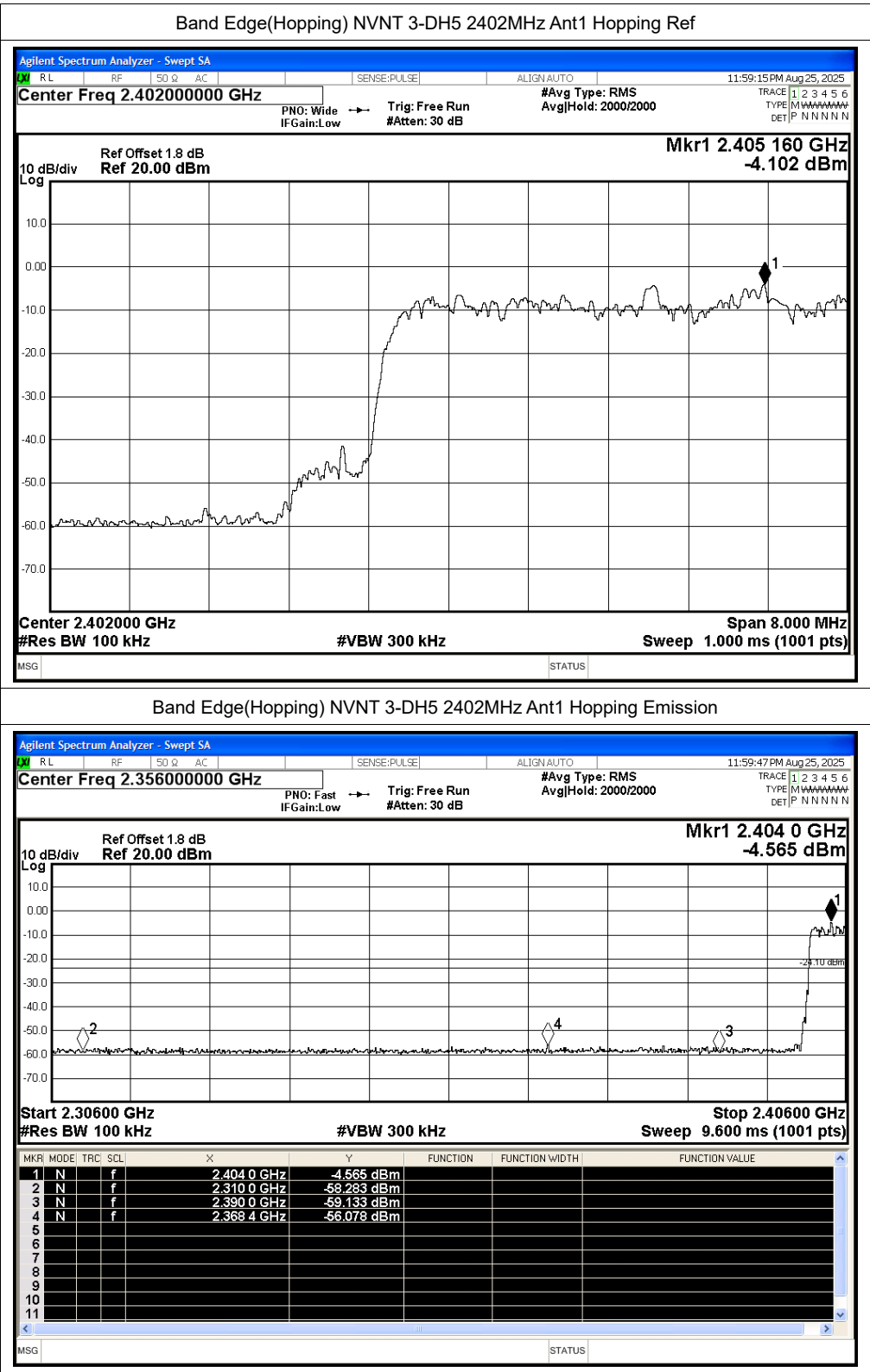
Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-52.14	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-52.94	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-52.87	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-53.81	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-51.98	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-53.73	-20	Pass

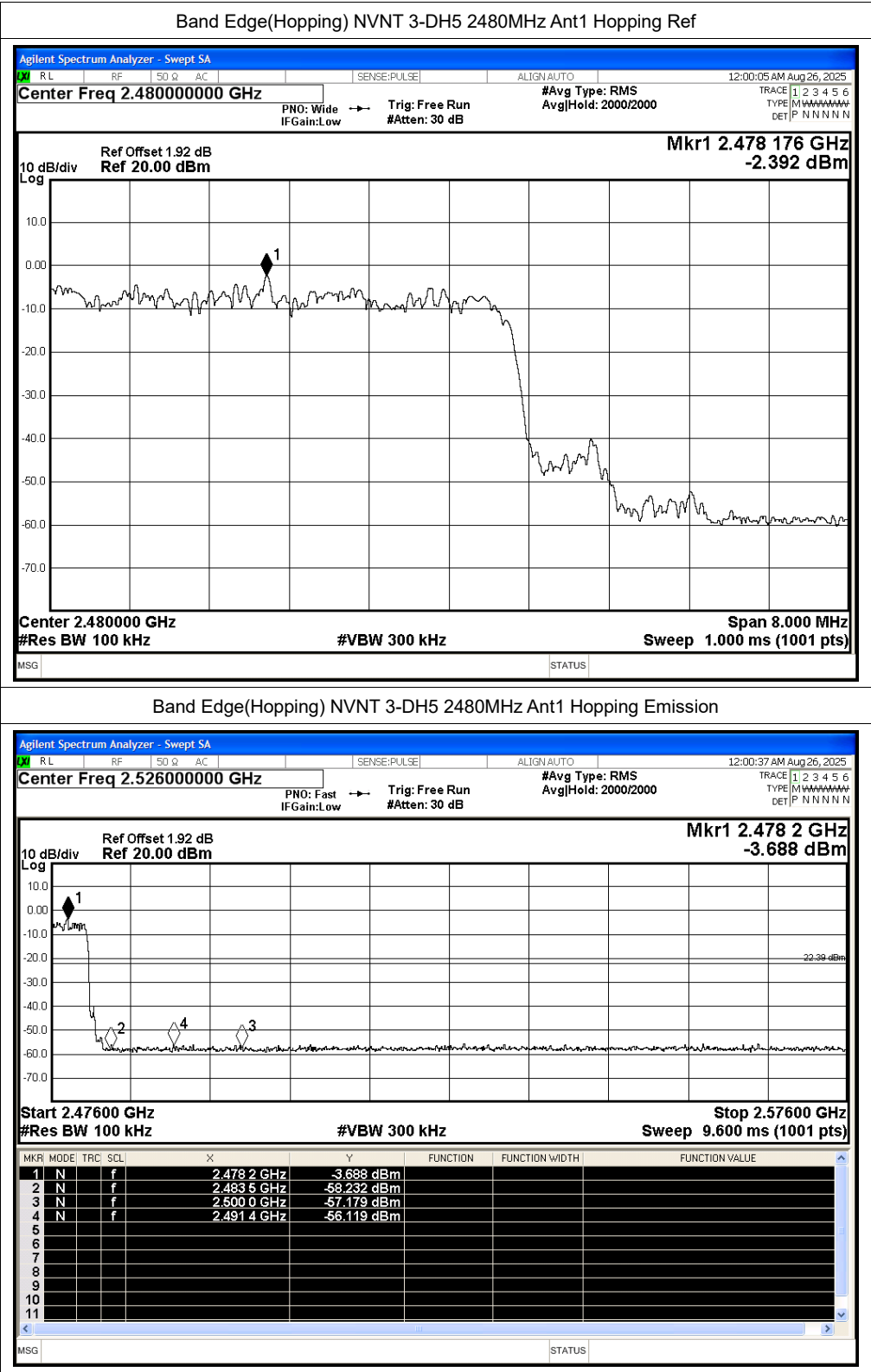






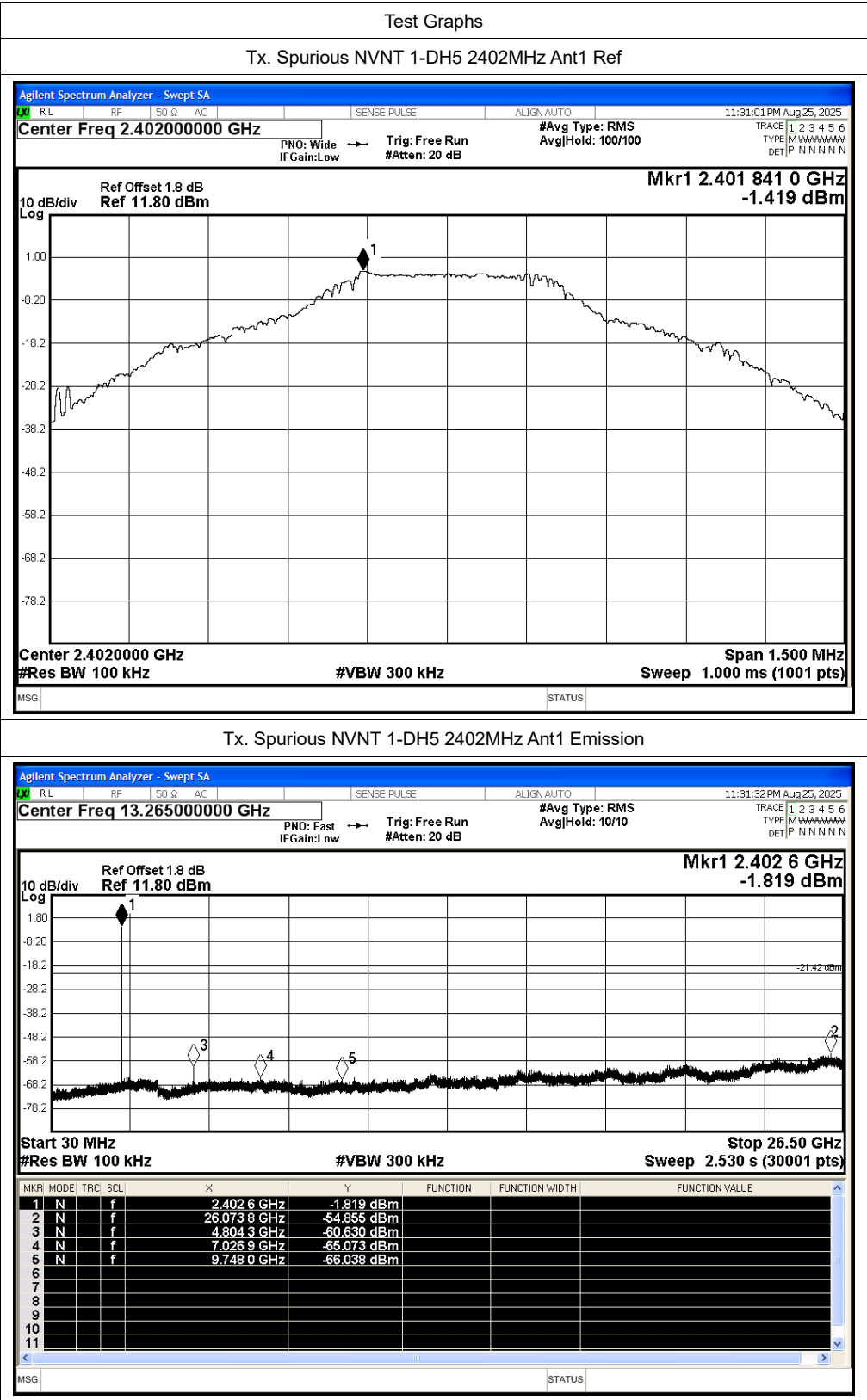


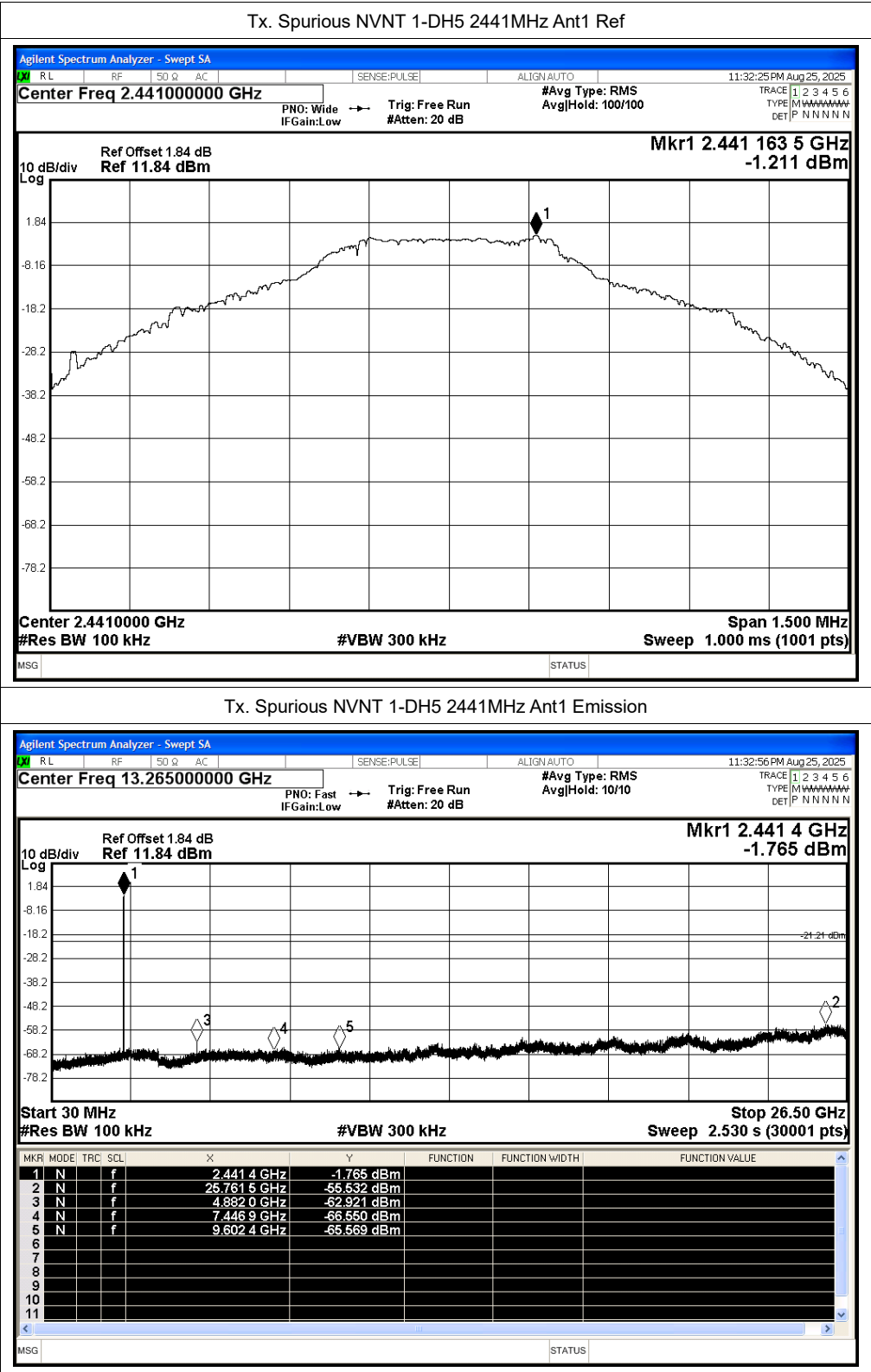


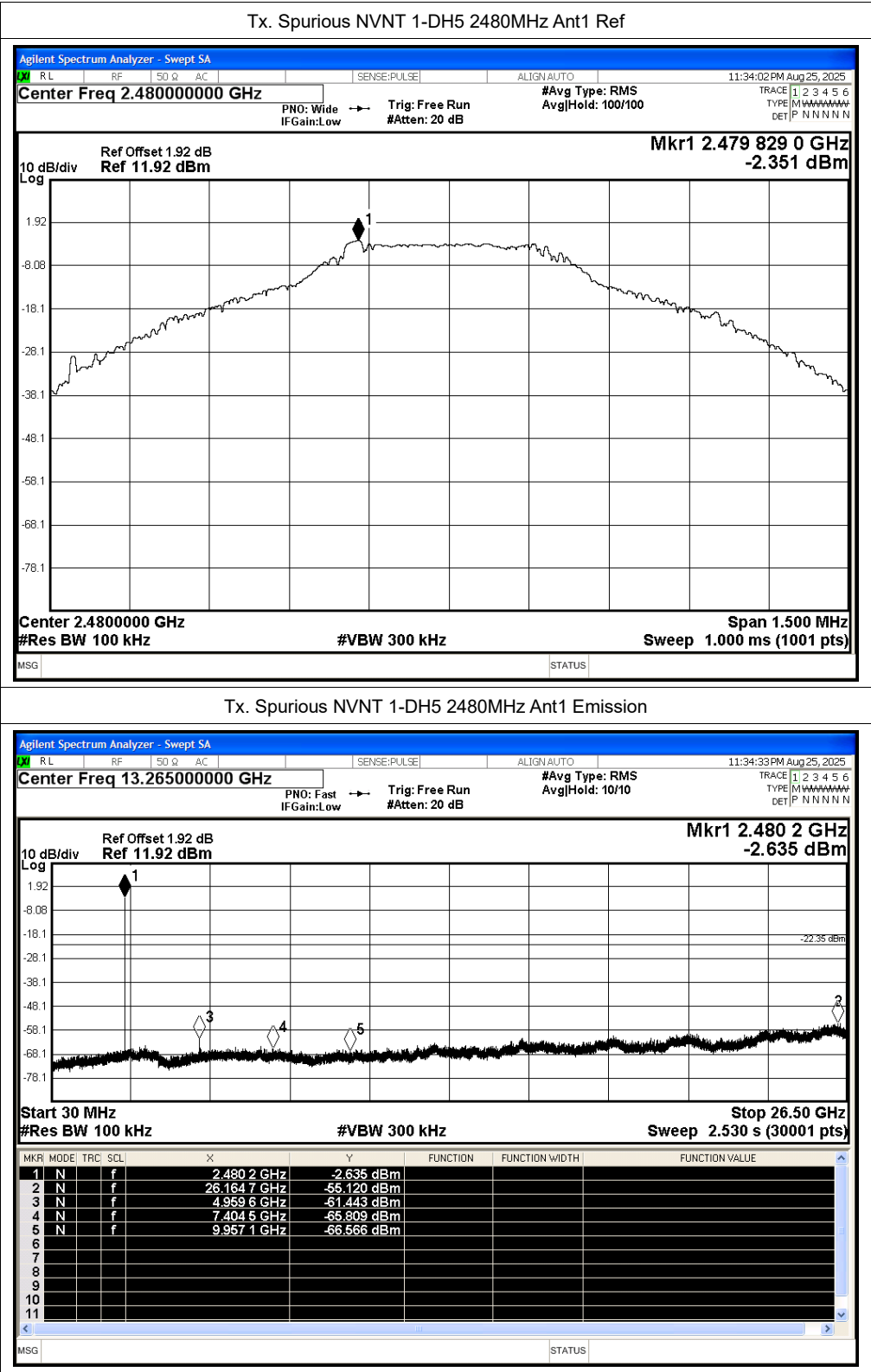


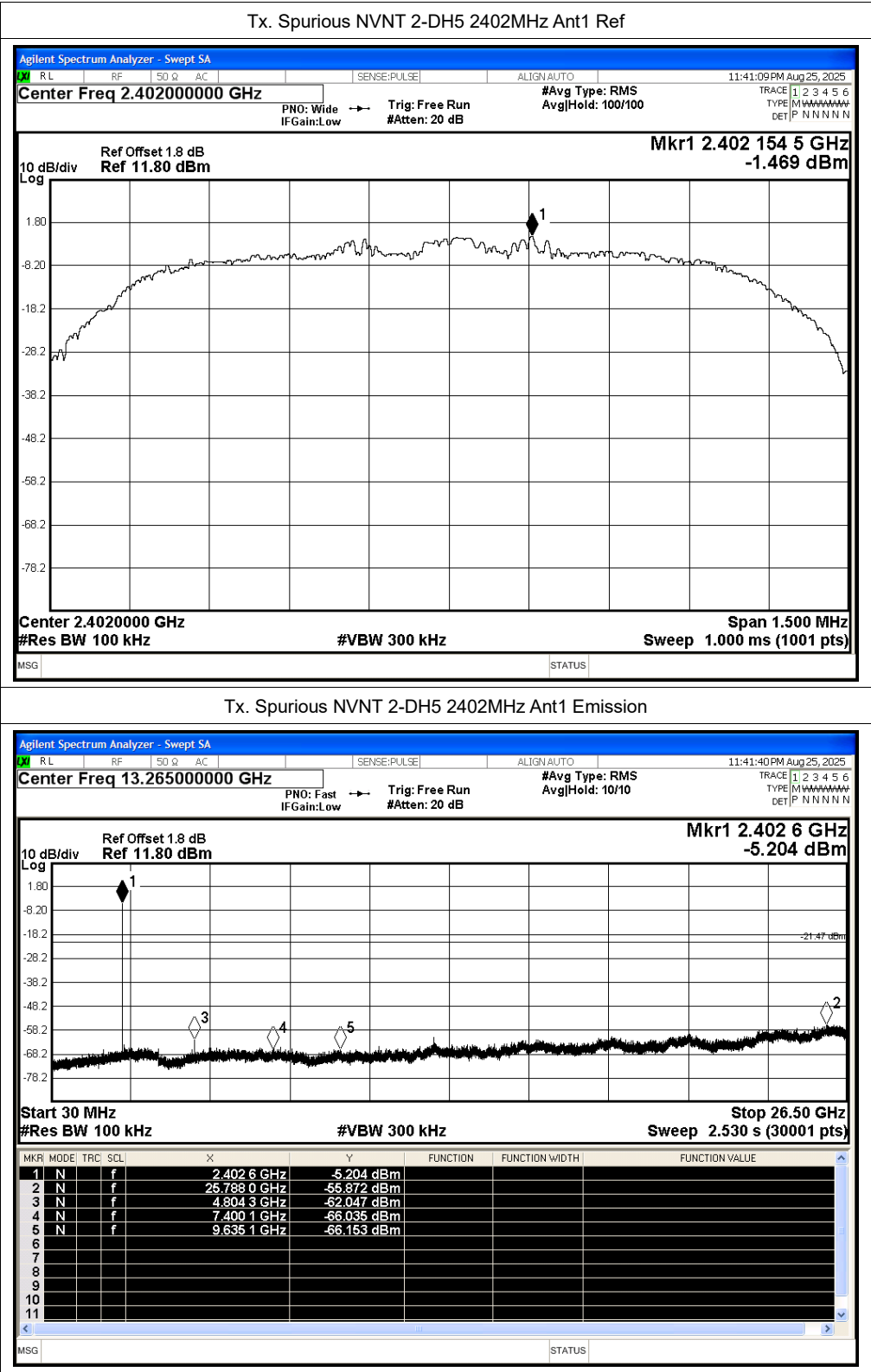
A.7 Conducted RF Spurious Emission

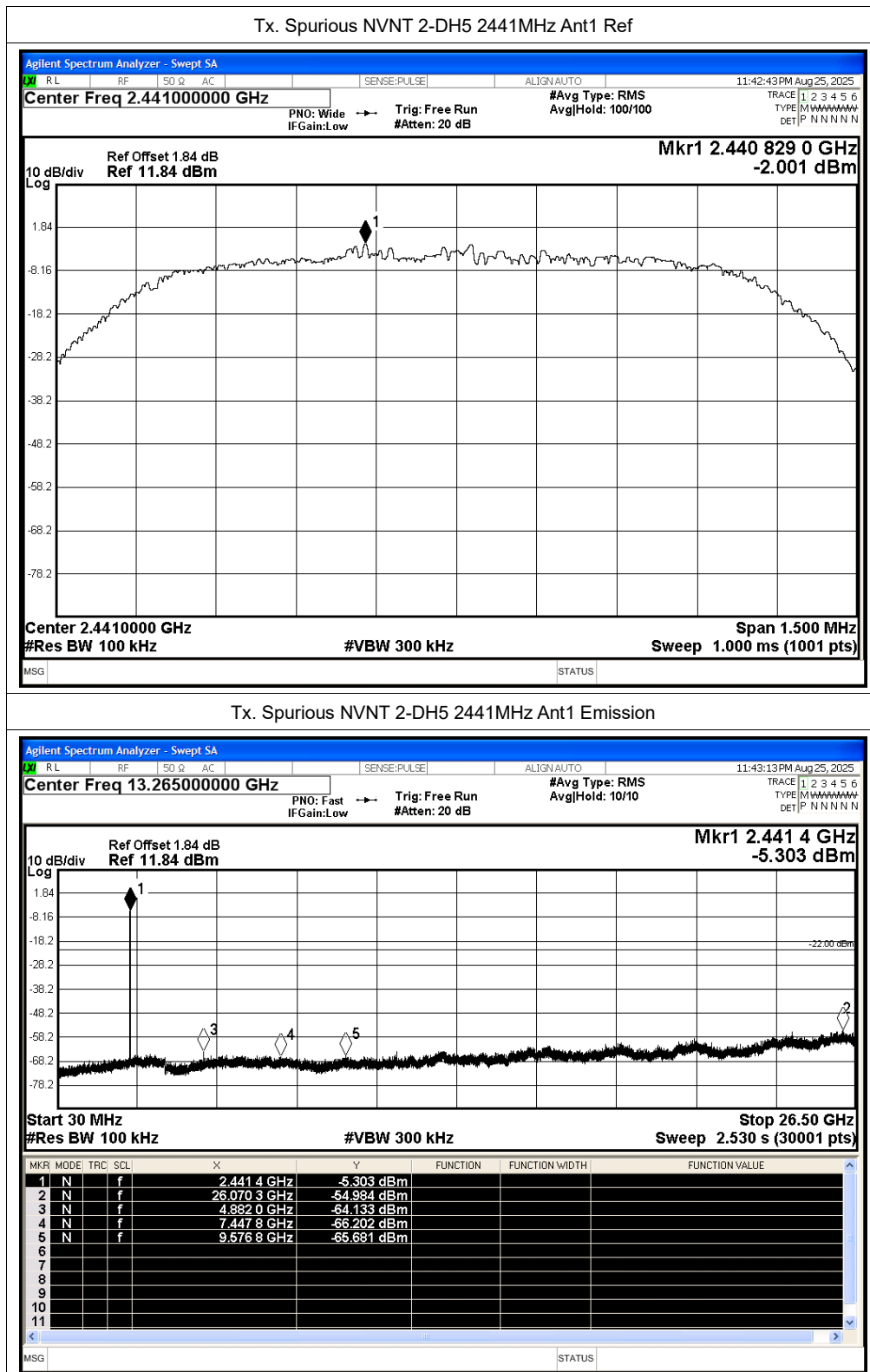
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-53.44	-20	Pass
NVNT	1-DH5	2441	Ant1	-54.32	-20	Pass
NVNT	1-DH5	2480	Ant1	-52.77	-20	Pass
NVNT	2-DH5	2402	Ant1	-54.4	-20	Pass
NVNT	2-DH5	2441	Ant1	-52.98	-20	Pass
NVNT	2-DH5	2480	Ant1	-52.55	-20	Pass
NVNT	3-DH5	2402	Ant1	-53.36	-20	Pass
NVNT	3-DH5	2441	Ant1	-54.04	-20	Pass
NVNT	3-DH5	2480	Ant1	-51.59	-20	Pass

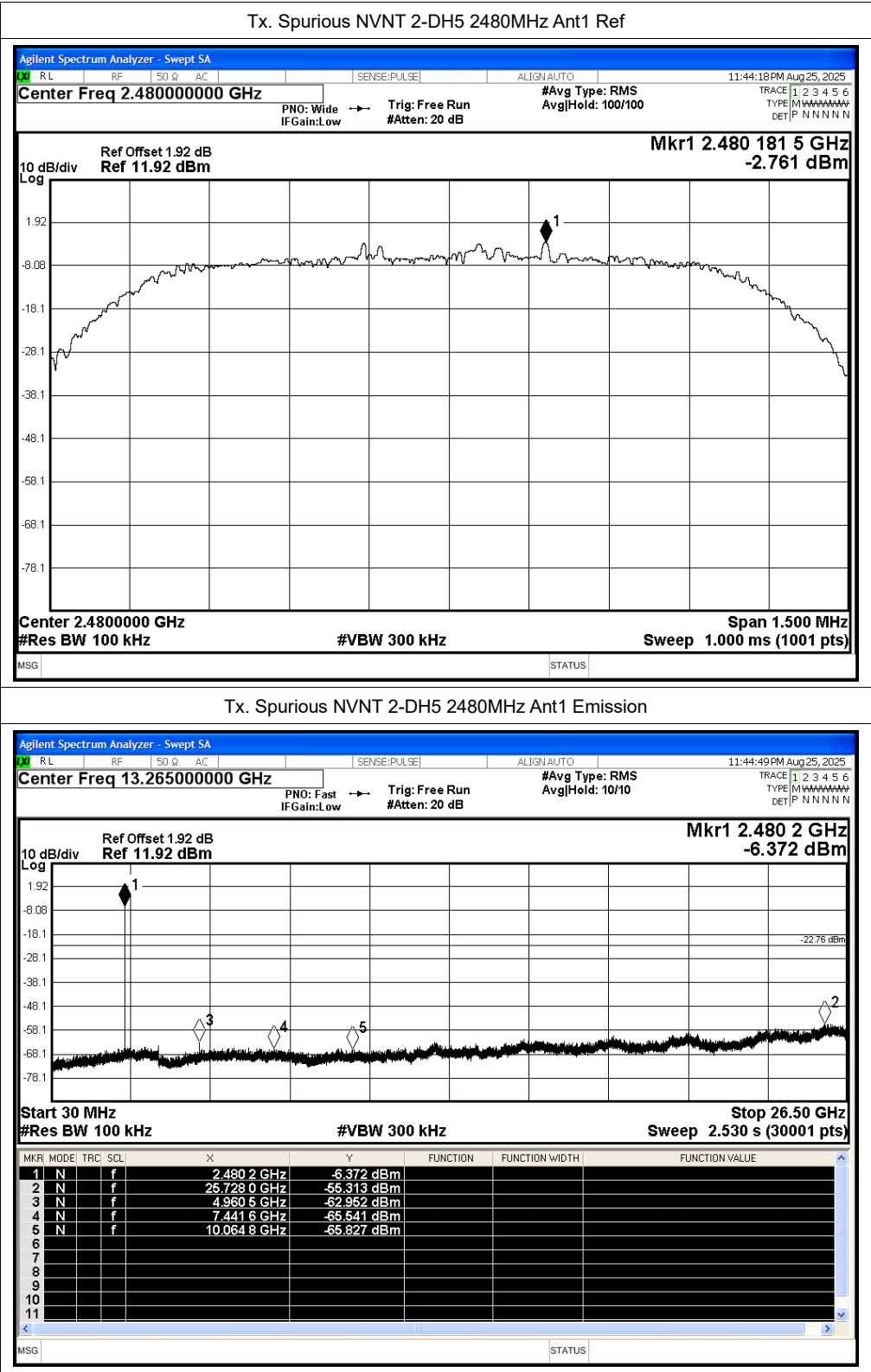


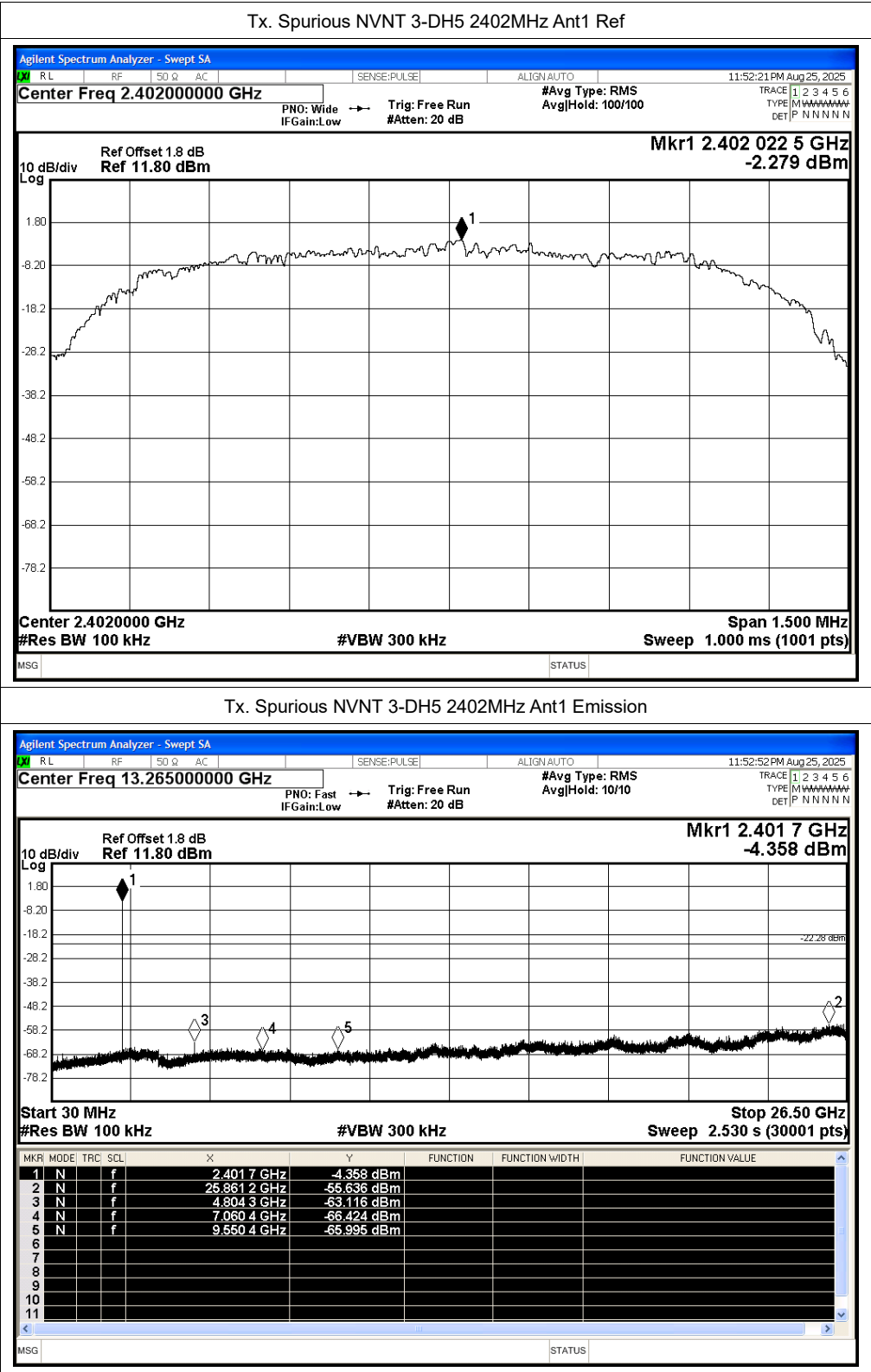


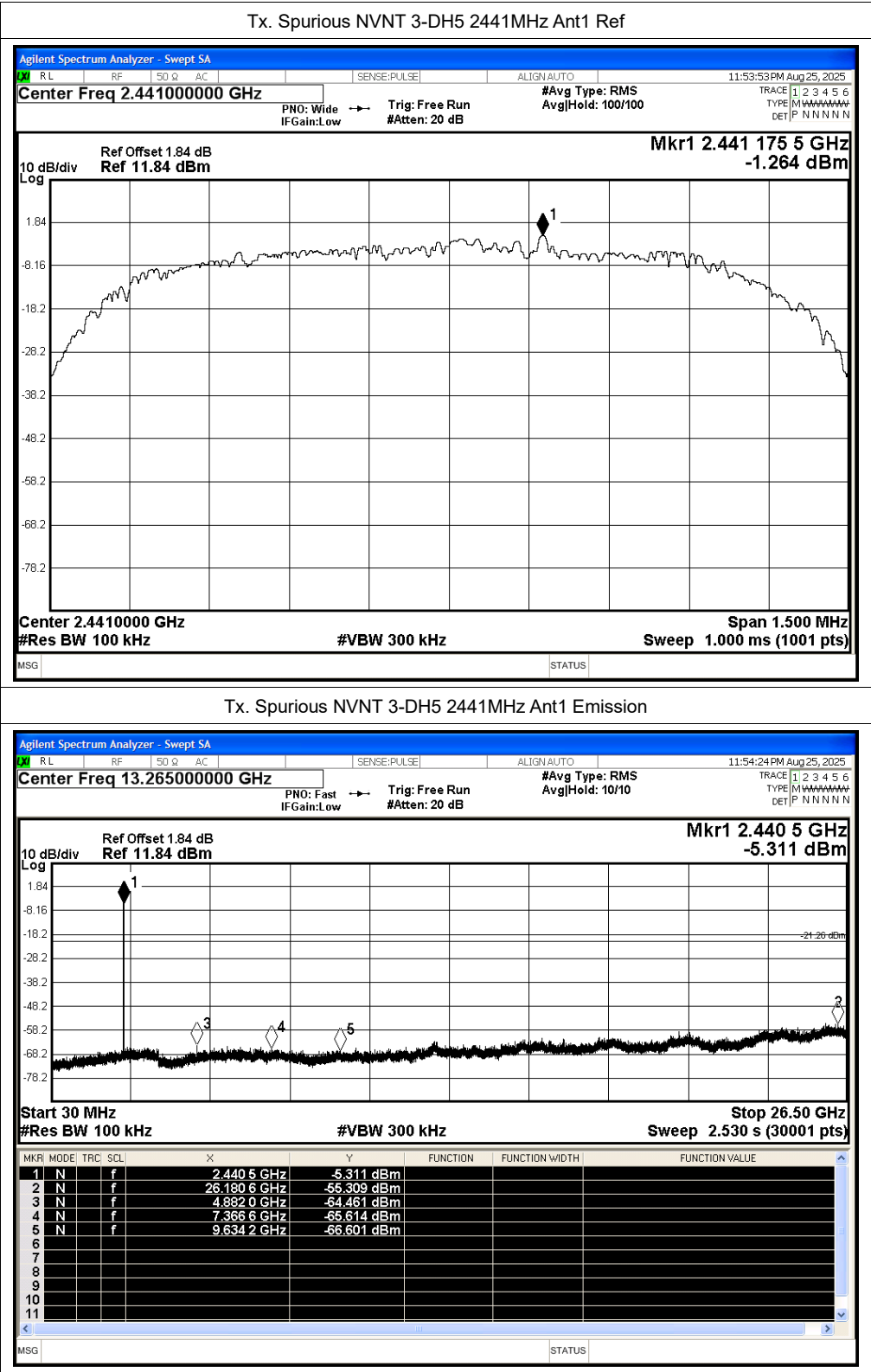


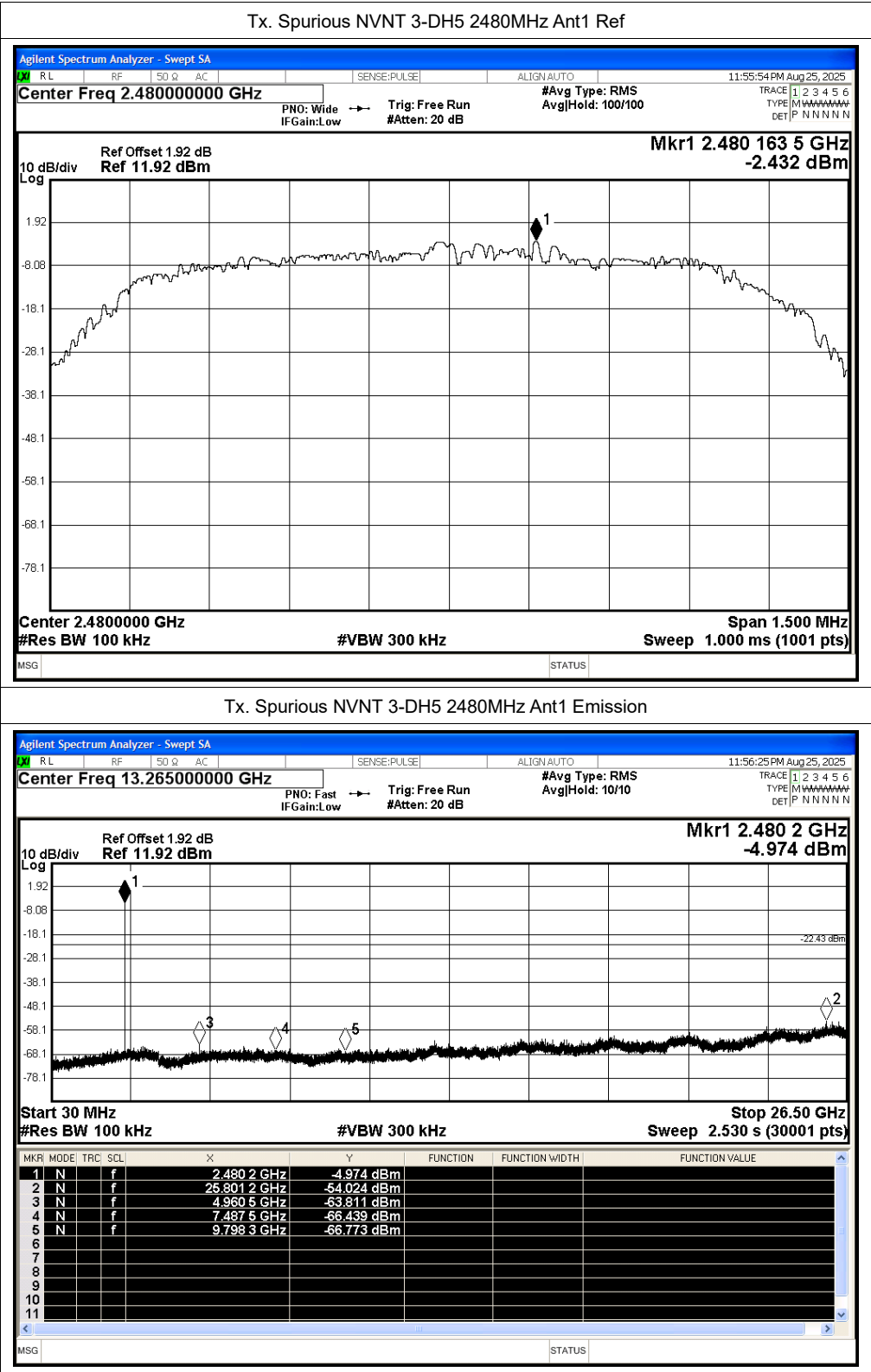






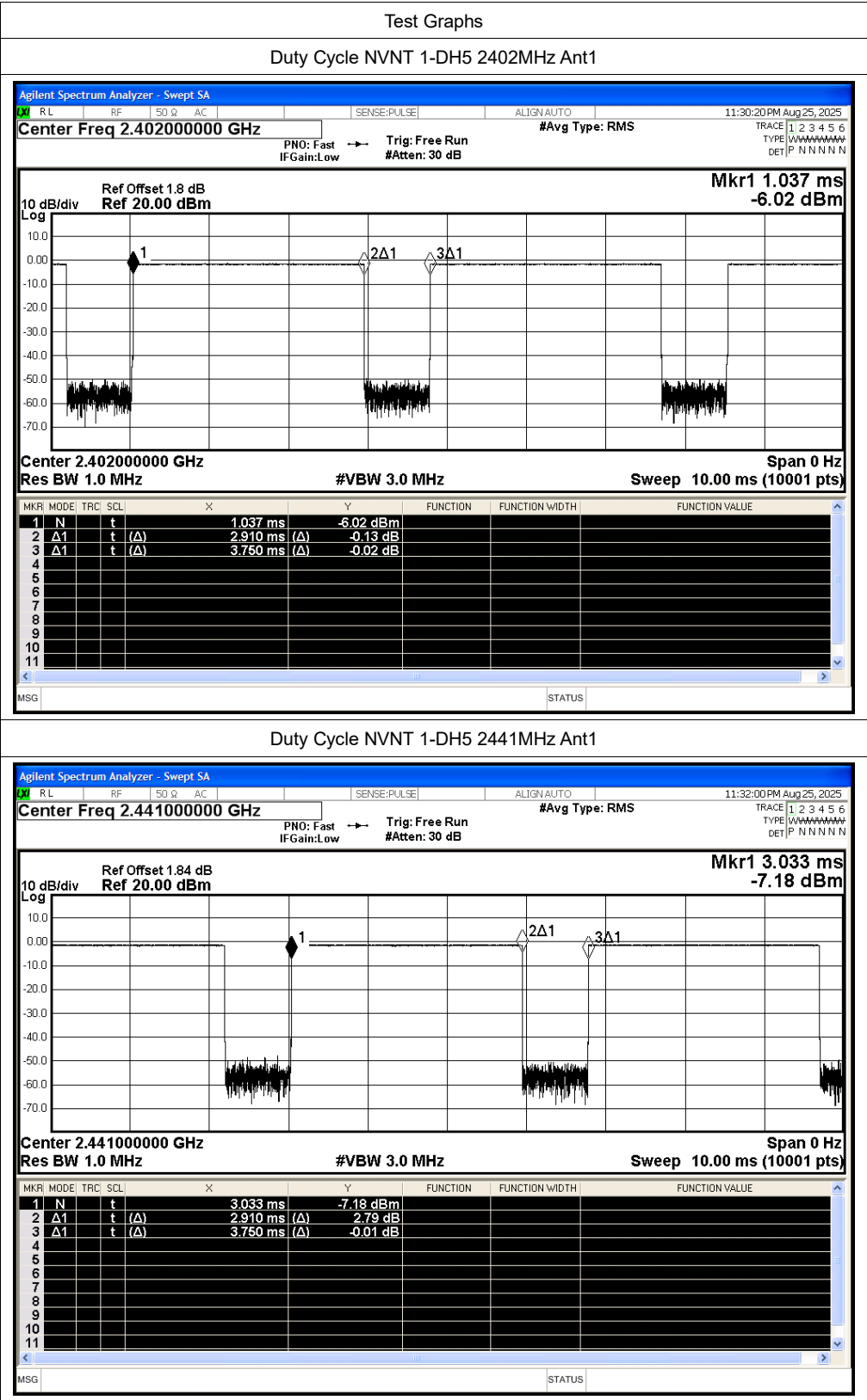


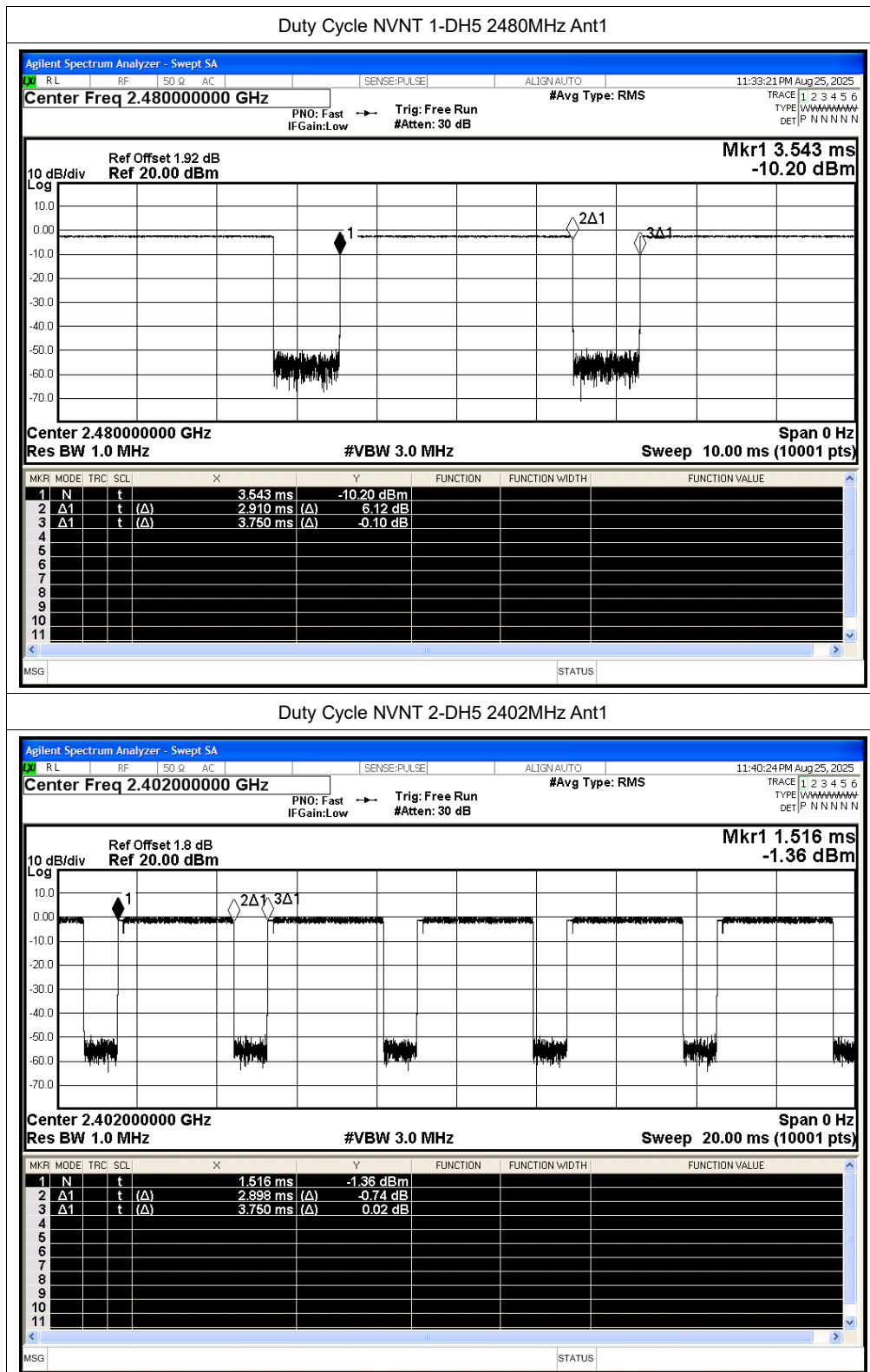


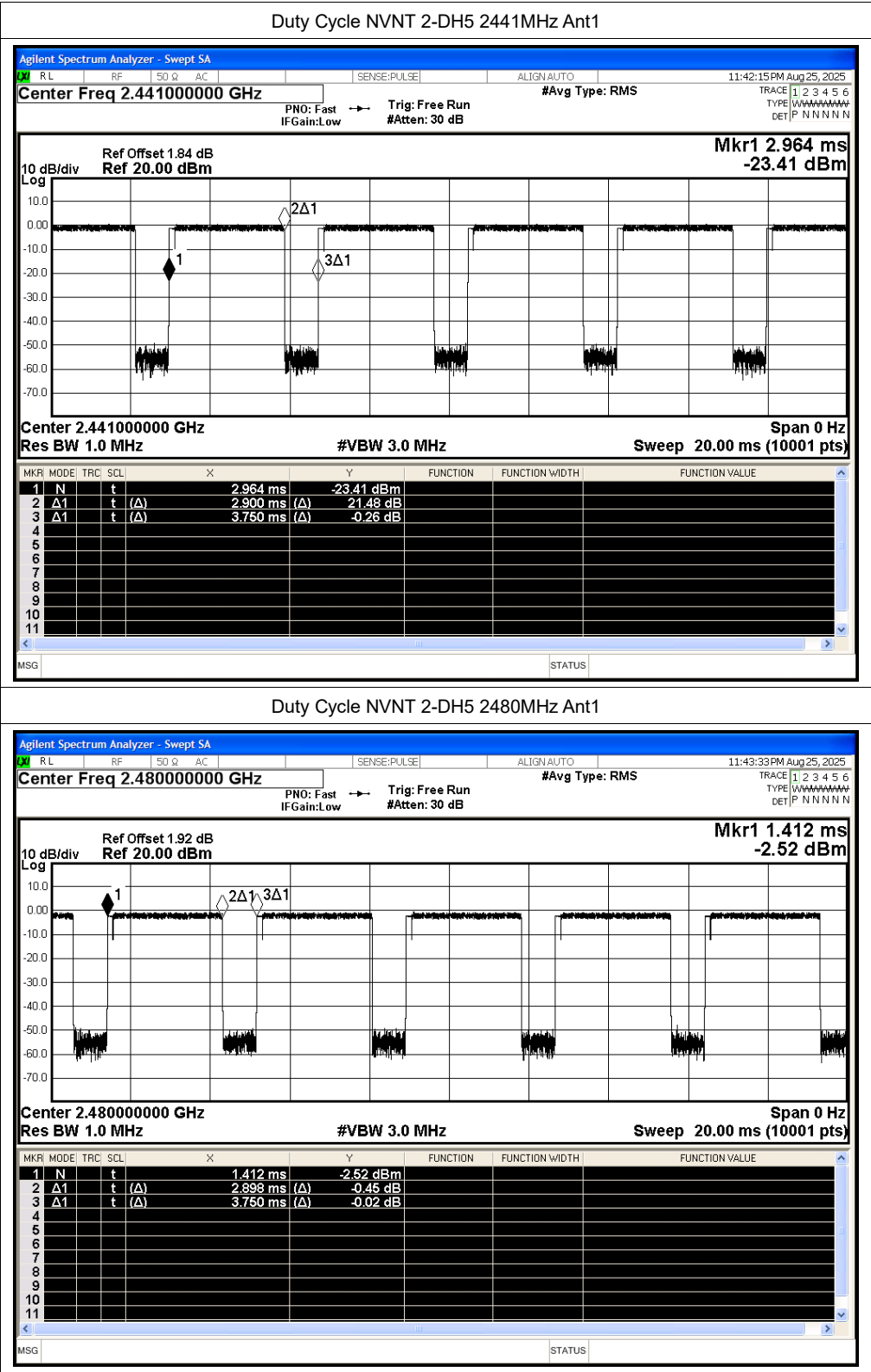


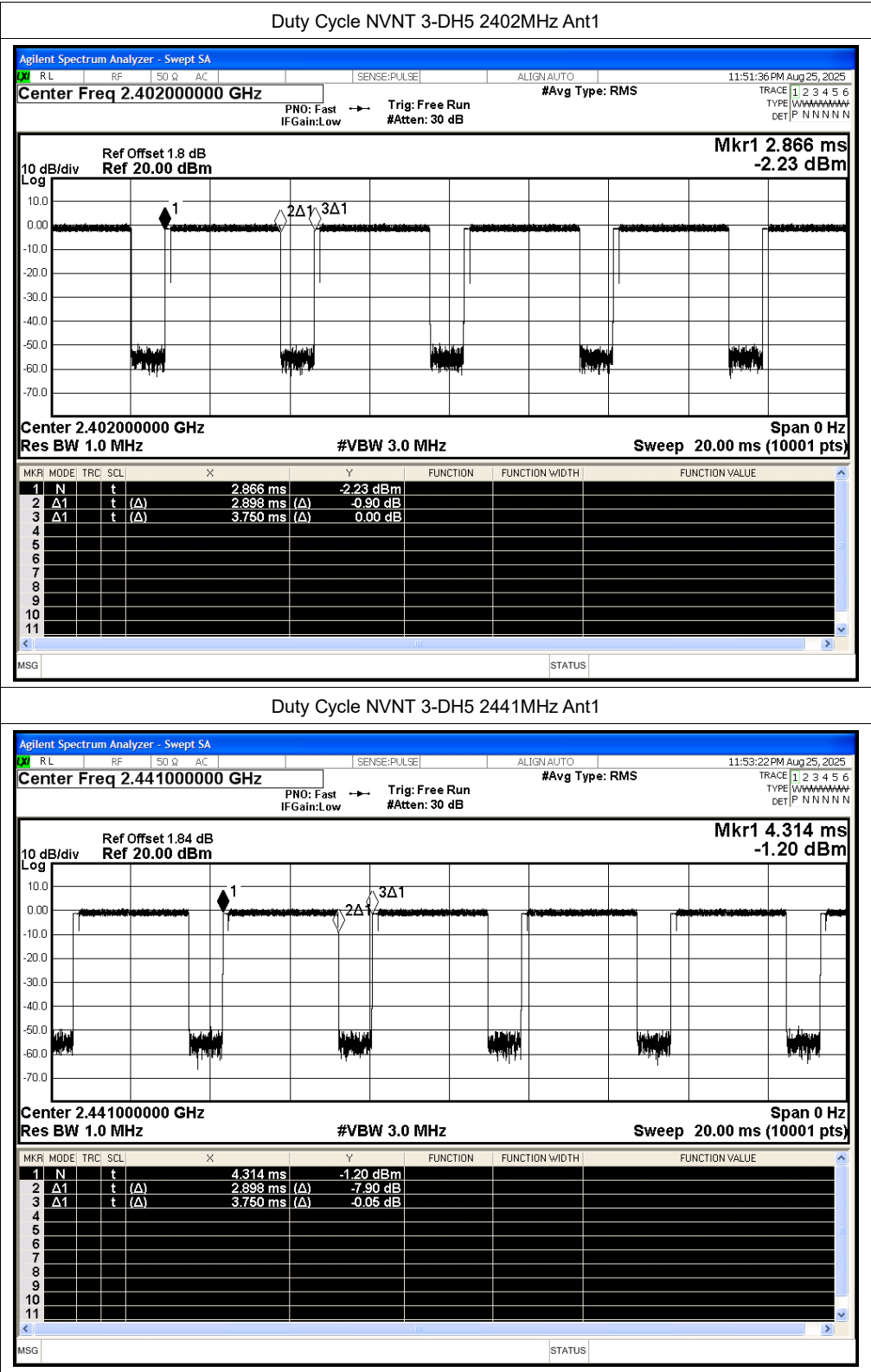
A.8 Duty Cycle

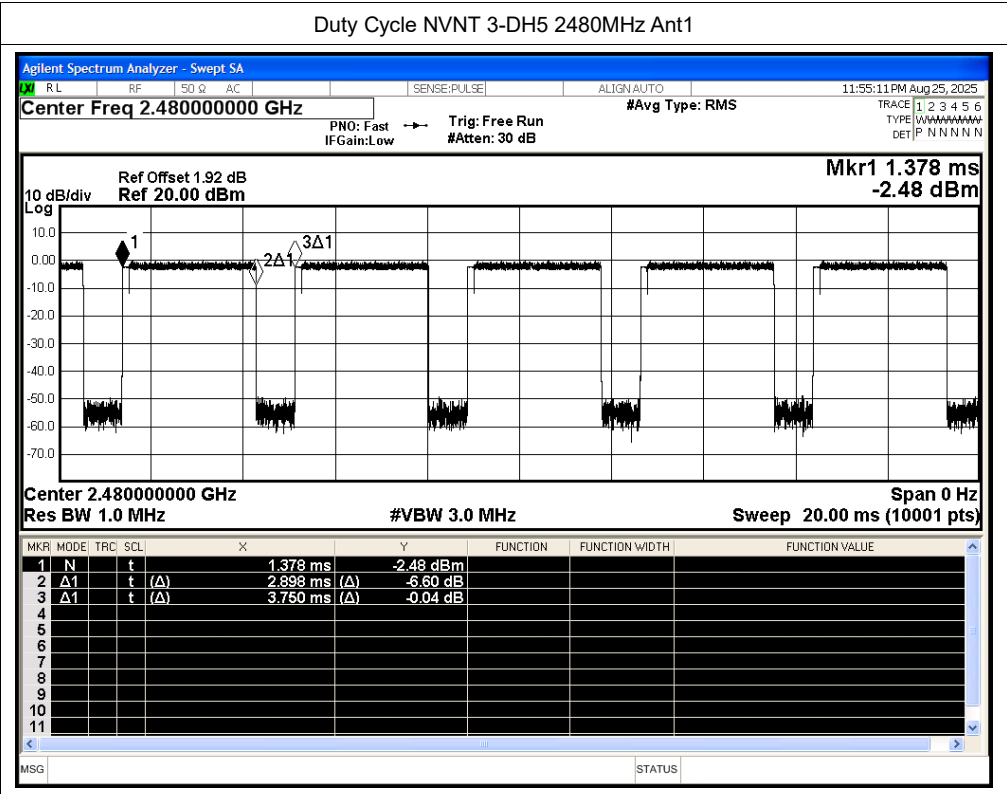
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	1-DH5	2402	Ant1	77.6	1.1	0.34
NVNT	1-DH5	2441	Ant1	77.6	1.1	0.34
NVNT	1-DH5	2480	Ant1	77.6	1.1	0.34
NVNT	2-DH5	2402	Ant1	77.28	1.12	0.35
NVNT	2-DH5	2441	Ant1	77.33	1.12	0.34
NVNT	2-DH5	2480	Ant1	77.28	1.12	0.35
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











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	-51.39	2.67	-	46.54	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2310	-59.04	2.67	1.1	39.99	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2375.376	-48.22	2.67	-	49.71	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2338.704	-57.78	2.67	1.1	41.25	Average	54	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-50.8	2.67	-	47.13	Peak	74	Pass
NVNT	1-DH5	2402	Ant1	No-Hopping	2390	-58.07	2.67	1.1	40.96	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-48.69	2.67	-	49.24	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2483.5	-57.89	2.67	1.1	41.14	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2497.528	-47.47	2.67	-	50.46	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2494	-57.39	2.67	1.1	41.64	Average	54	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-50.07	2.67	-	47.86	Peak	74	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	2500	-58.13	2.67	1.1	40.90	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-50.09	2.67	-	47.84	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2310	-58.66	2.67	1.12	40.39	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2363.568	-46.82	2.67	-	51.11	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2373.744	-57.73	2.67	1.12	41.32	Average	54	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-48.8	2.67	-	49.13	Peak	74	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	2390	-58.81	2.67	1.12	40.24	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-48.16	2.67	-	49.77	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2483.5	-57.67	2.67	1.12	41.38	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2488.744	-45.97	2.67	-	51.96	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2484.328	-57.34	2.67	1.12	41.71	Average	54	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-49.31	2.67	-	48.62	Peak	74	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	2500	-58.36	2.67	1.12	40.69	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-52.12	2.67	-	45.81	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2310	-59.58	2.67	1.12	39.47	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2345.616	-47.53	2.67	-	50.40	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2380.272	-57.83	2.67	1.12	41.22	Average	54	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-51.55	2.67	-	46.38	Peak	74	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	2390	-58.71	2.67	1.12	40.34	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-49.33	2.67	-	48.60	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2483.5	-58.34	2.67	1.12	40.71	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2484.784	-46.92	2.67	-	51.01	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2485.792	-57.3	2.67	1.12	41.75	Average	54	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-49.49	2.67	-	48.44	Peak	74	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	2500	-58.39	2.67	1.12	40.66	Average	54	Pass

