

Appendix A

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Dash camera

Test Model: W6

Environmental Conditions

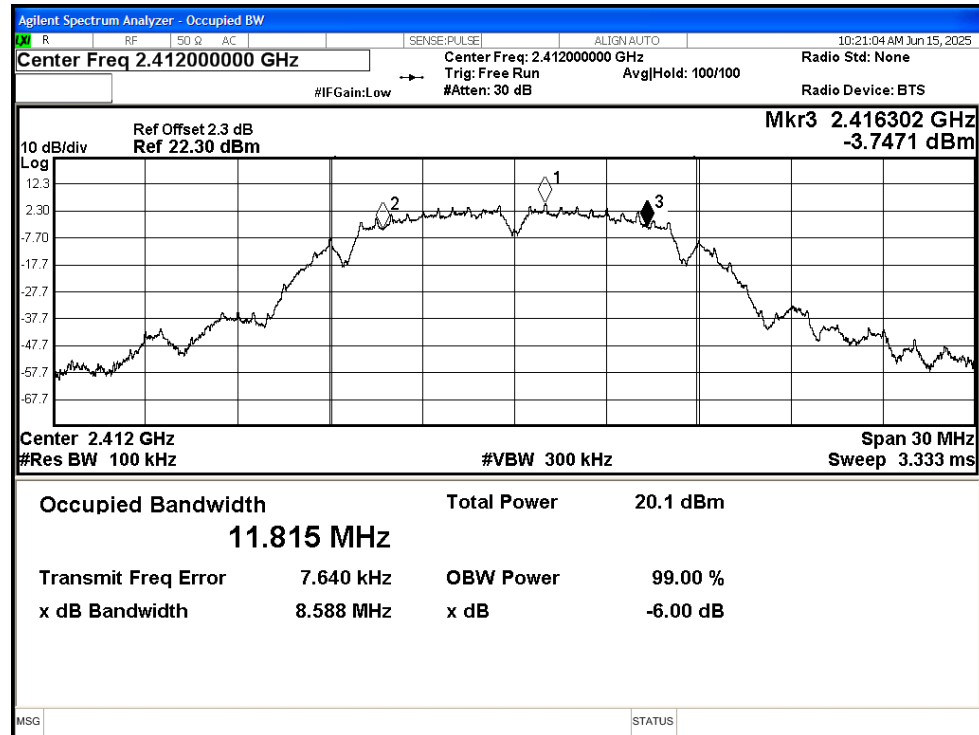
Temperature:	23.8°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Can Kun
Supervised by:	Nick Peng

A.1 -6dB Bandwidth

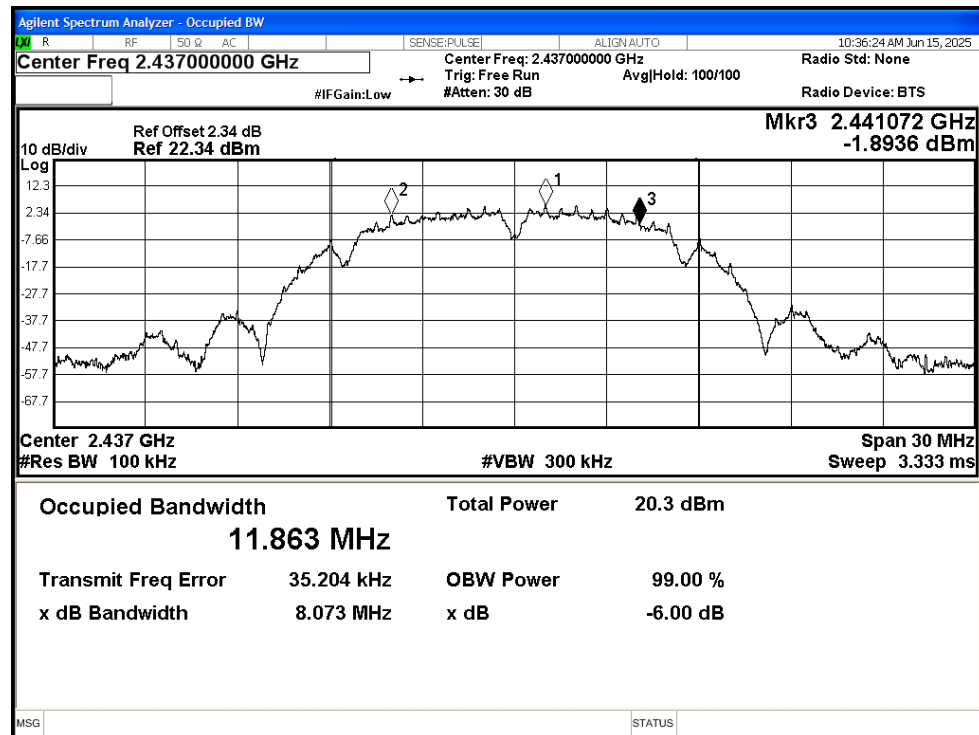
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	8.588	≥ 0.5	Pass
NVNT	b	2437	Ant1	8.073	≥ 0.5	Pass
NVNT	b	2462	Ant1	8.08	≥ 0.5	Pass
NVNT	g	2412	Ant1	16.327	≥ 0.5	Pass
NVNT	g	2437	Ant1	16.336	≥ 0.5	Pass
NVNT	g	2462	Ant1	16.292	≥ 0.5	Pass
NVNT	n20	2412	Ant1	16.612	≥ 0.5	Pass
NVNT	n20	2437	Ant1	17.389	≥ 0.5	Pass
NVNT	n20	2462	Ant1	17.262	≥ 0.5	Pass

Test Graphs

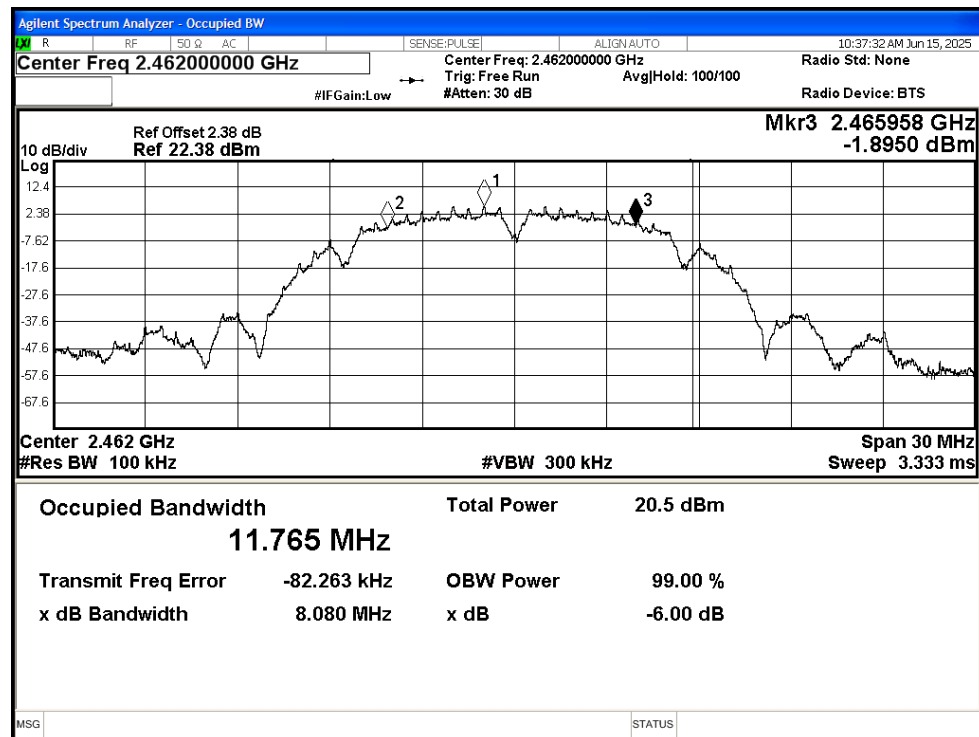
-6dB Bandwidth NVNT b 2412MHz Ant1



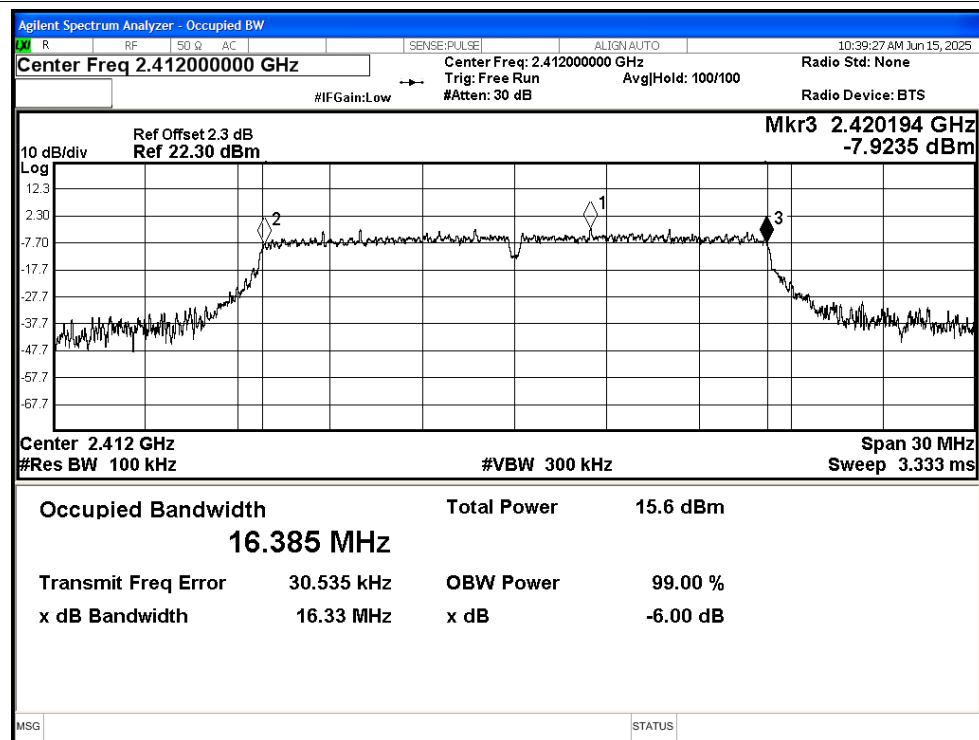
-6dB Bandwidth NVNT b 2437MHz Ant1



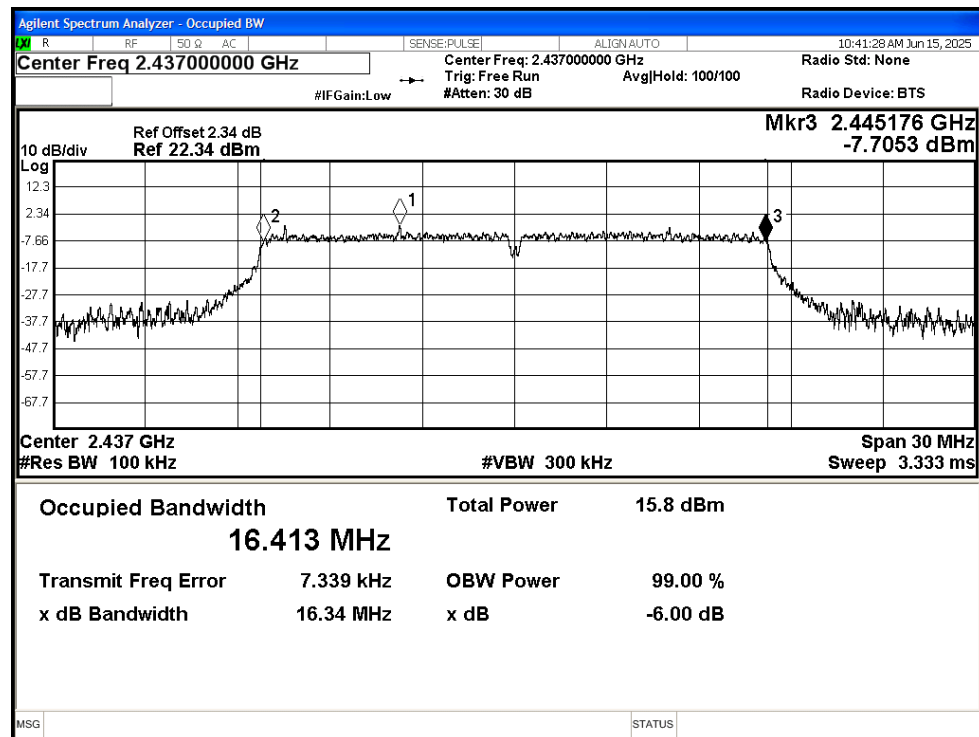
-6dB Bandwidth NVNT b 2462MHz Ant1



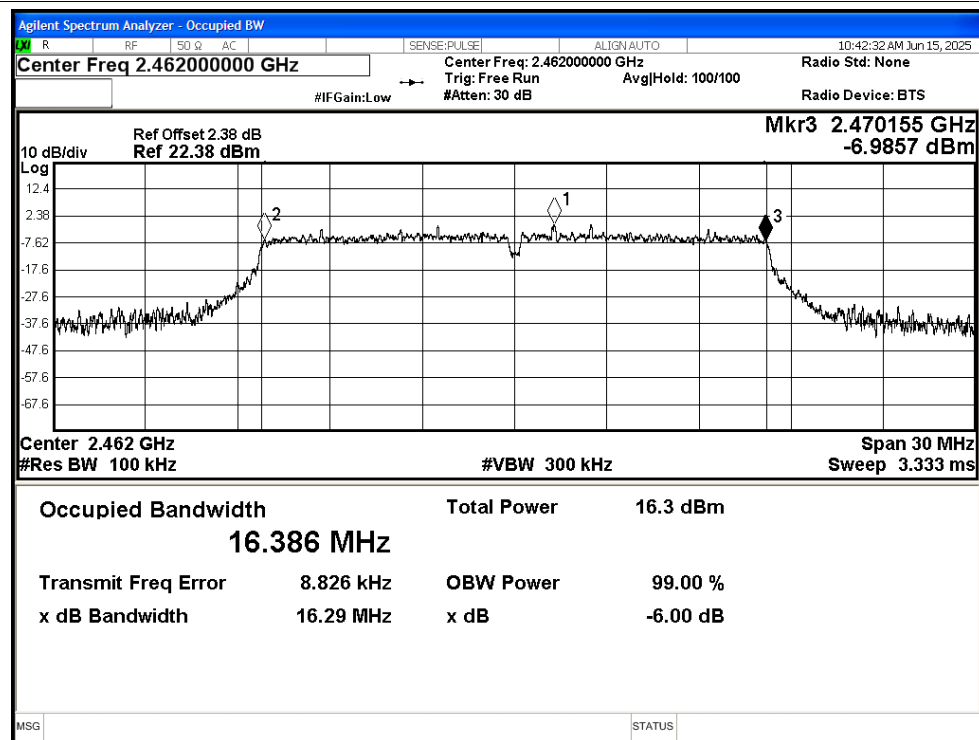
-6dB Bandwidth NVNT g 2412MHz Ant1



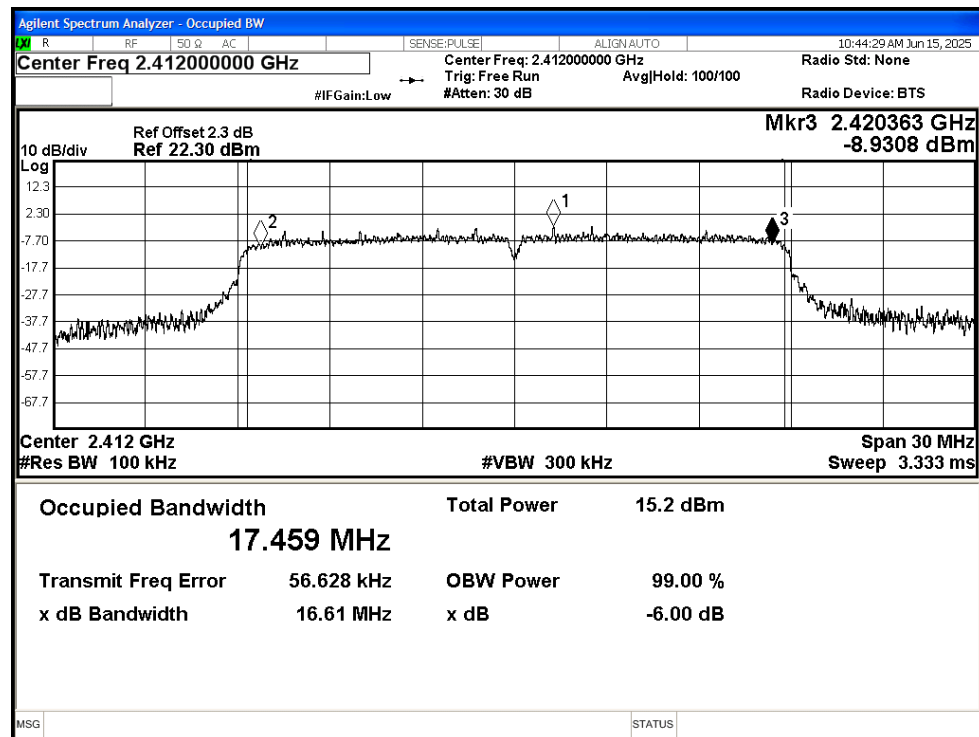
-6dB Bandwidth NVNT g 2437MHz Ant1



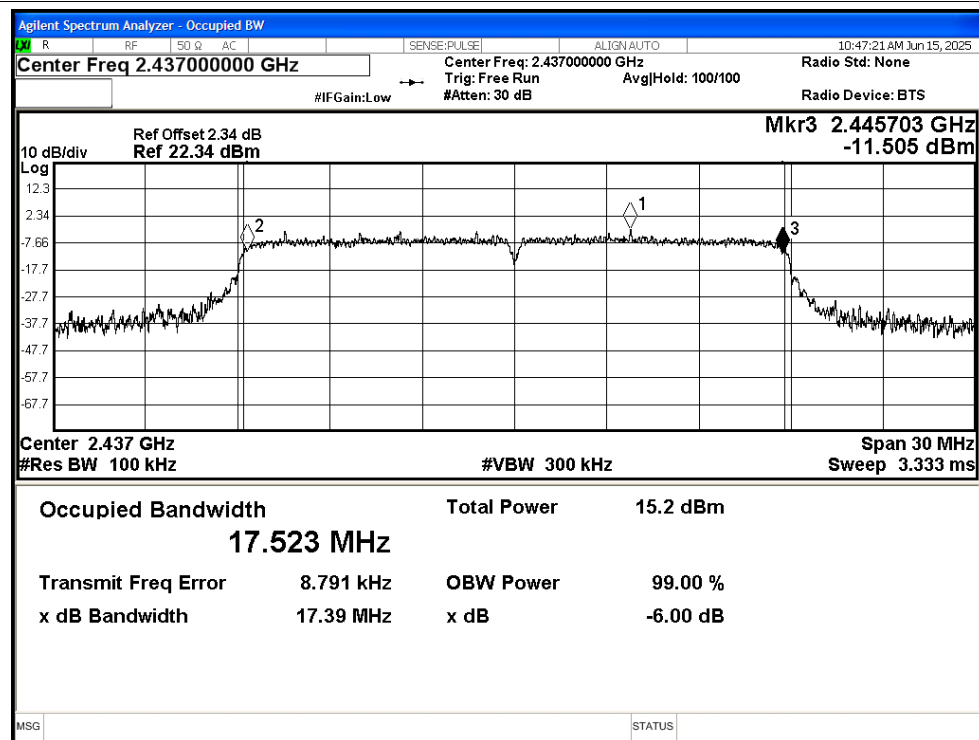
-6dB Bandwidth NVNT g 2462MHz Ant1

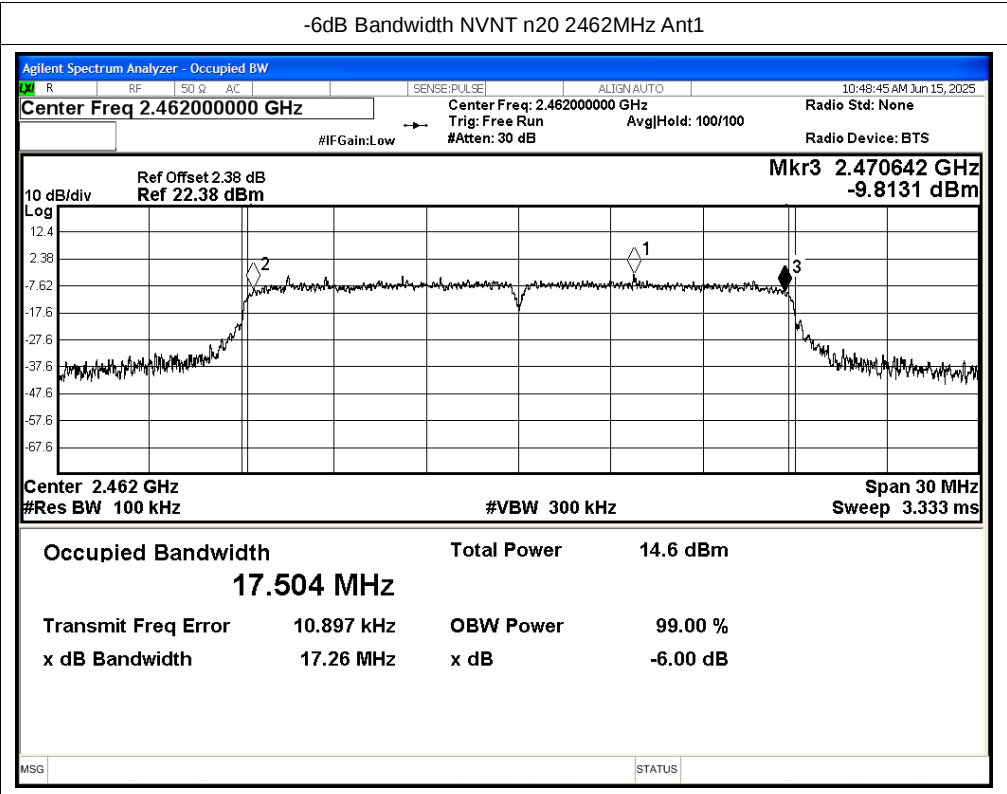


-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2437MHz Ant1





A.2 Maximum Peak Conducted Output Power

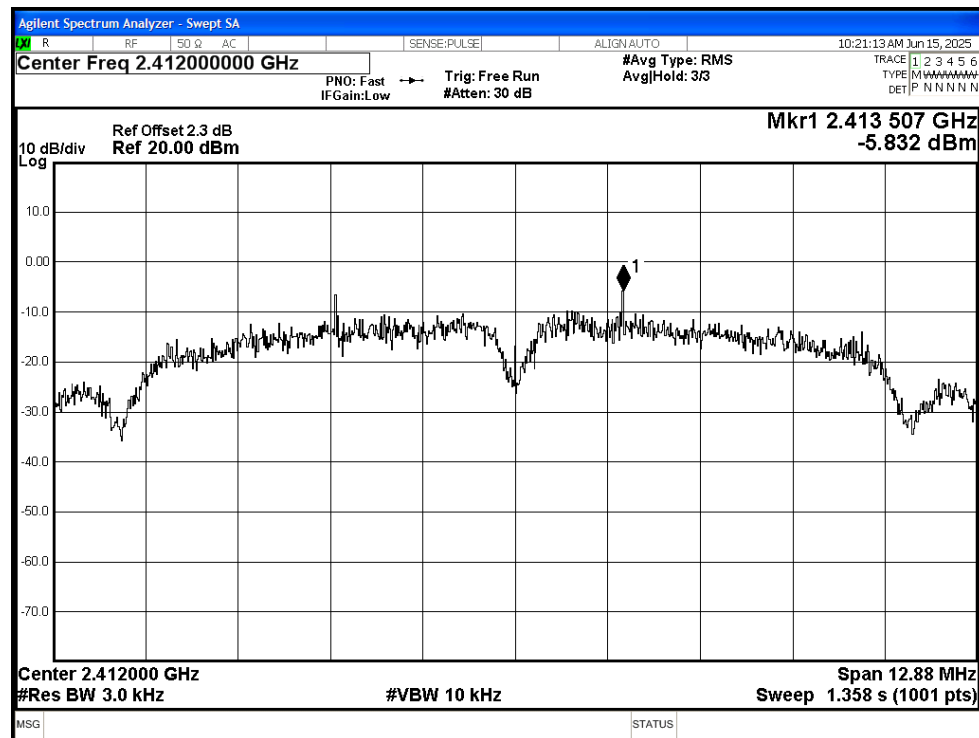
Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	15.22	30	Pass
NVNT	b	2437	Ant1	15.23	30	Pass
NVNT	b	2462	Ant1	15.43	30	Pass
NVNT	g	2412	Ant1	14.39	30	Pass
NVNT	g	2437	Ant1	14.71	30	Pass
NVNT	g	2462	Ant1	15	30	Pass
NVNT	n20	2412	Ant1	13.79	30	Pass
NVNT	n20	2437	Ant1	13.86	30	Pass
NVNT	n20	2462	Ant1	13.22	30	Pass

A.3 Maximum Power Spectral Density Level

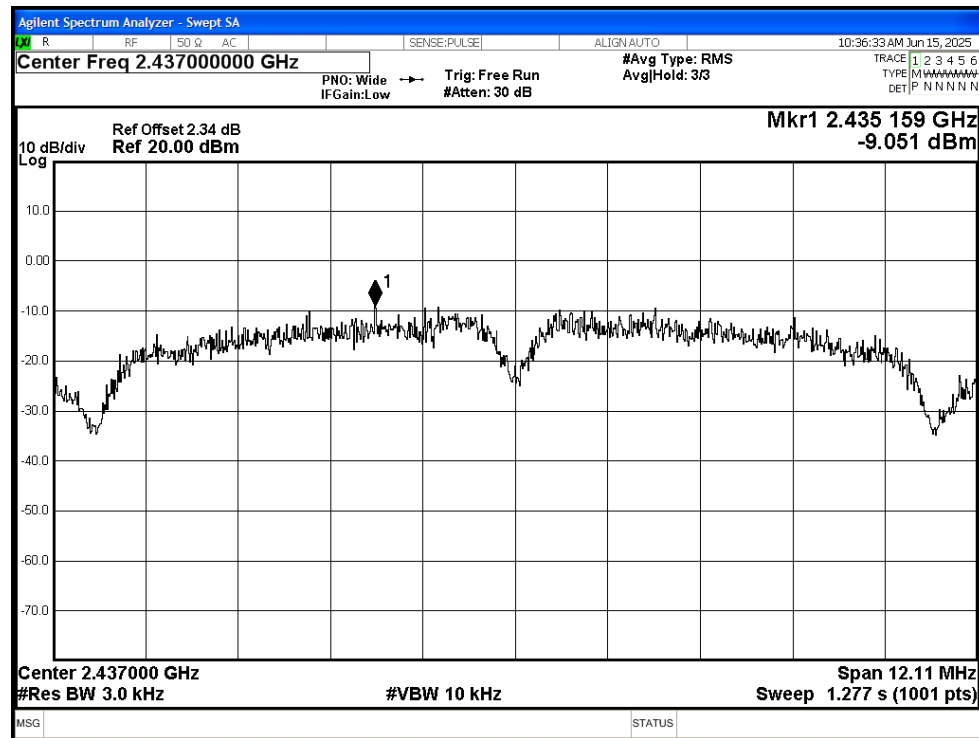
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-5.83	8	Pass
NVNT	b	2437	Ant1	-9.05	8	Pass
NVNT	b	2462	Ant1	-8.73	8	Pass
NVNT	g	2412	Ant1	-15.82	8	Pass
NVNT	g	2437	Ant1	-15.52	8	Pass
NVNT	g	2462	Ant1	-15.07	8	Pass
NVNT	n20	2412	Ant1	-15.8	8	Pass
NVNT	n20	2437	Ant1	-17.54	8	Pass
NVNT	n20	2462	Ant1	-18.09	8	Pass

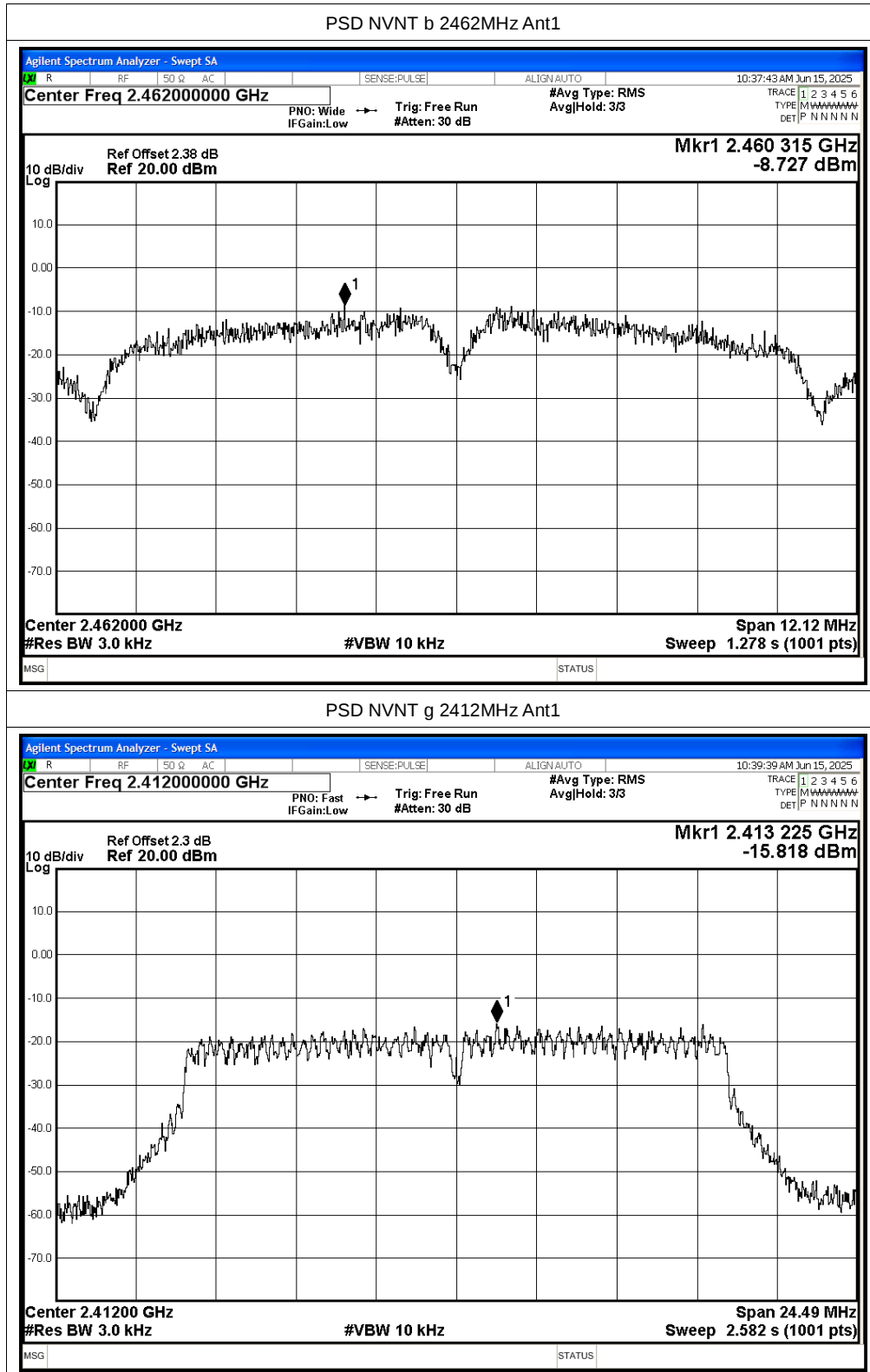
Test Graphs

PSD NVNT b 2412MHz Ant1

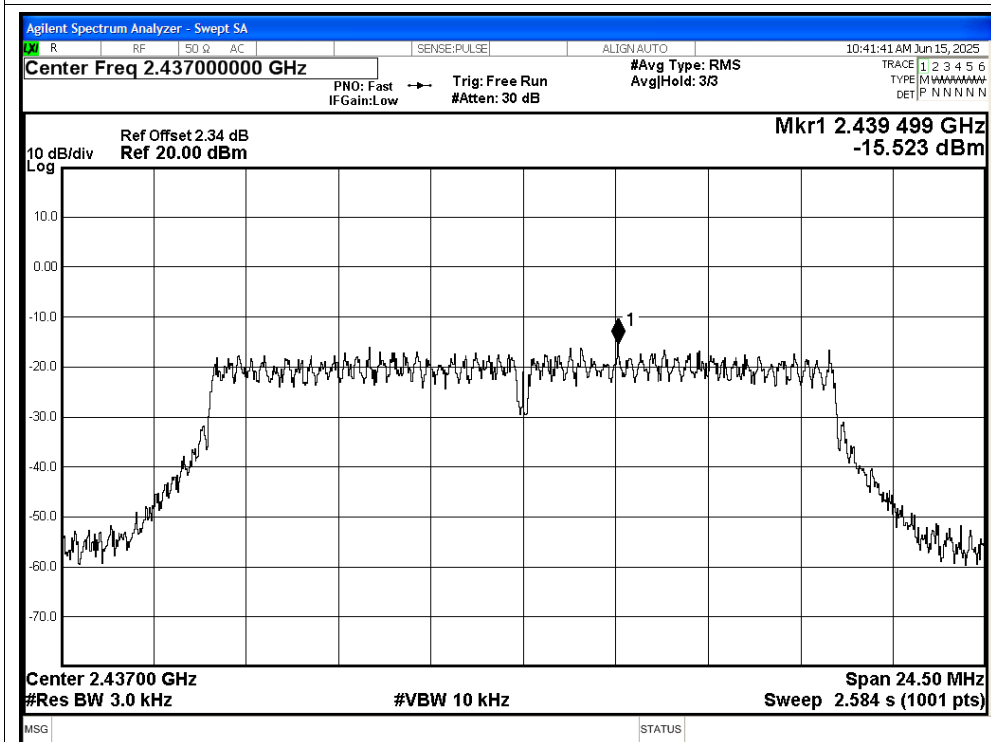


PSD NVNT b 2437MHz Ant1

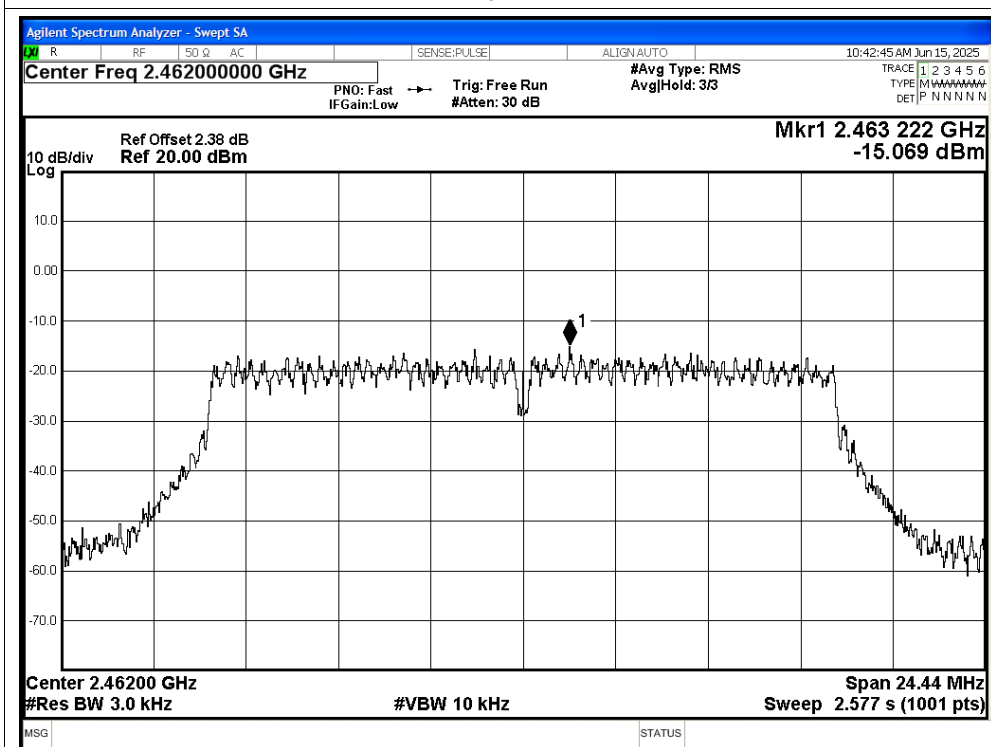


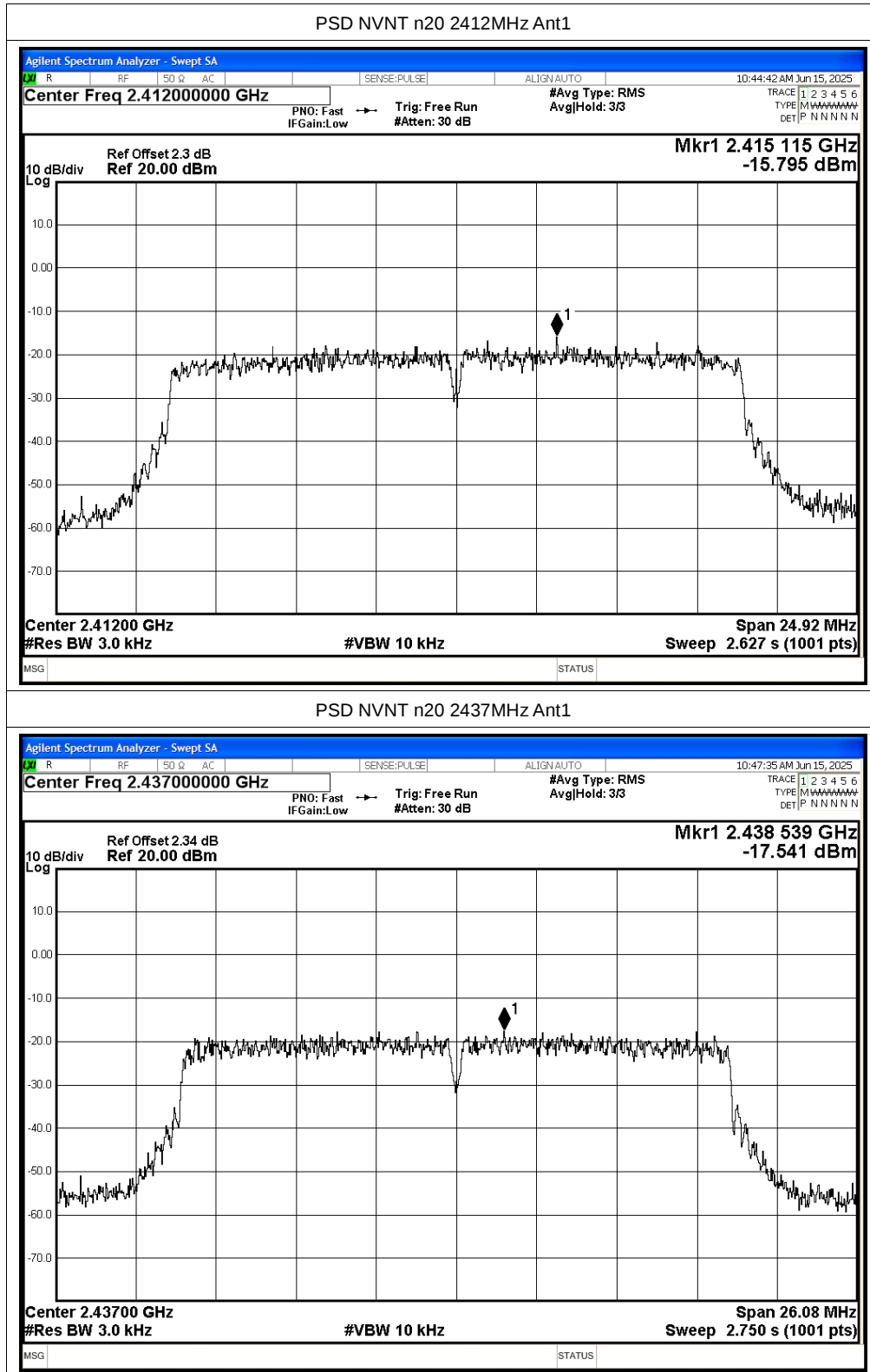


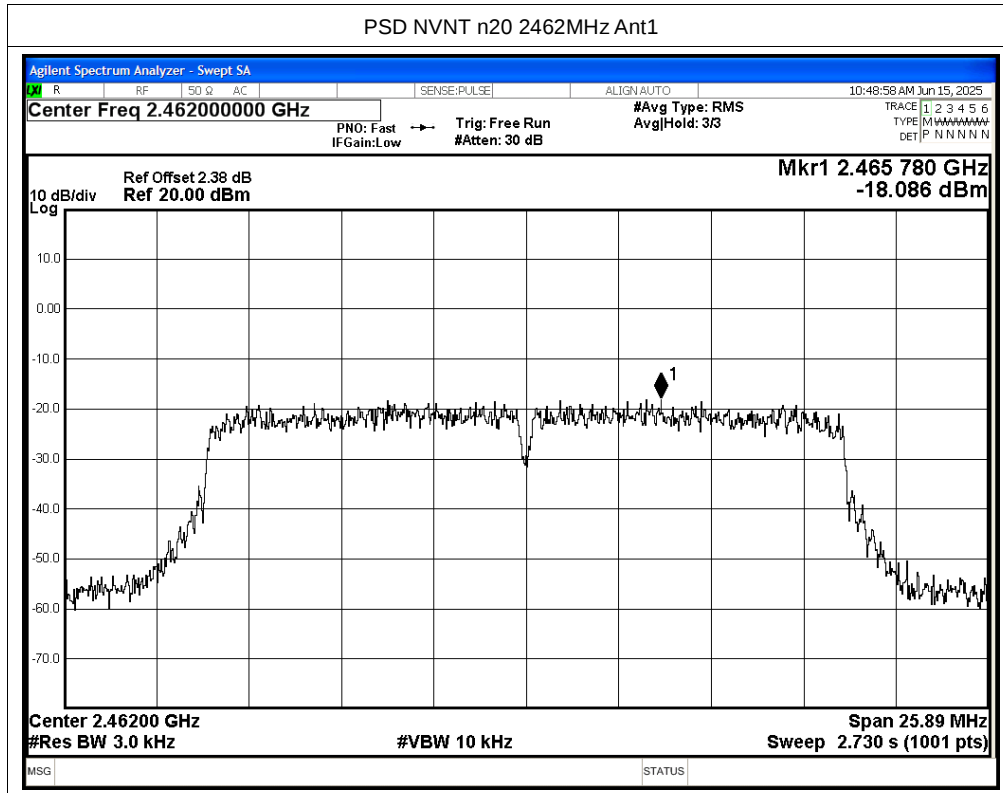
PSD NVNT g 2437MHz Ant1



PSD NVNT g 2462MHz Ant1

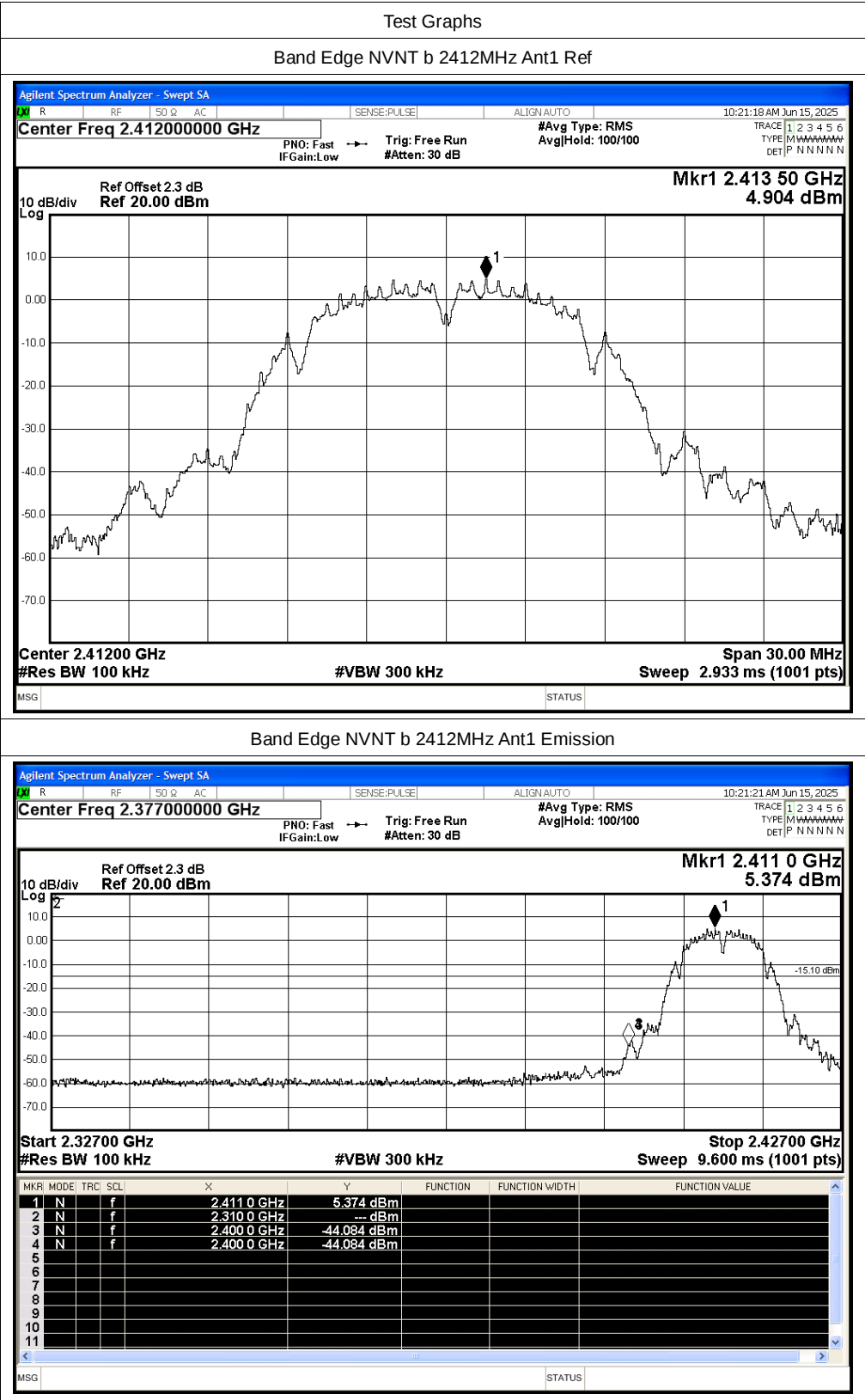




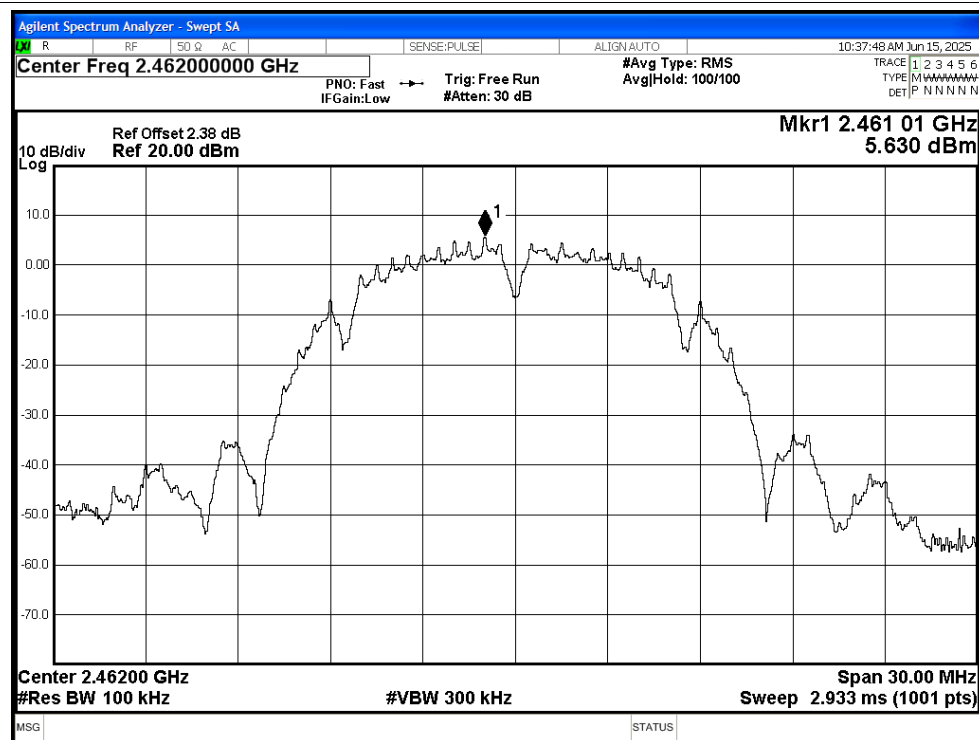


A.4 Band Edge

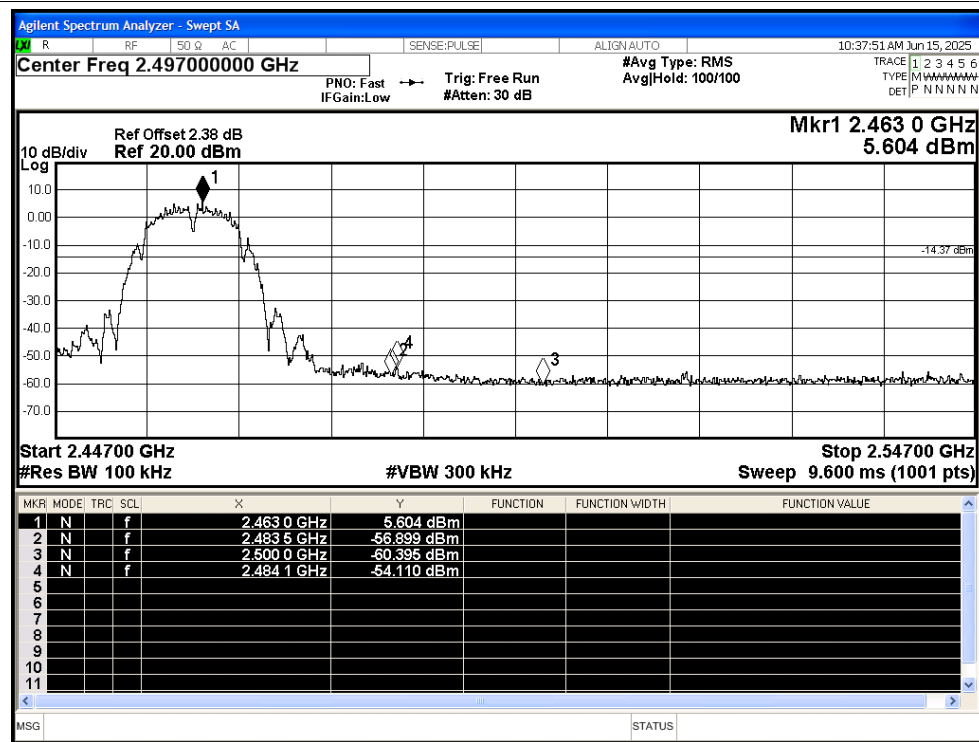
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-48.99	-20	Pass
NVNT	b	2462	Ant1	-59.74	-20	Pass
NVNT	g	2412	Ant1	-30.2	-20	Pass
NVNT	g	2462	Ant1	-43.35	-20	Pass
NVNT	n20	2412	Ant1	-34.24	-20	Pass
NVNT	n20	2462	Ant1	-41.44	-20	Pass



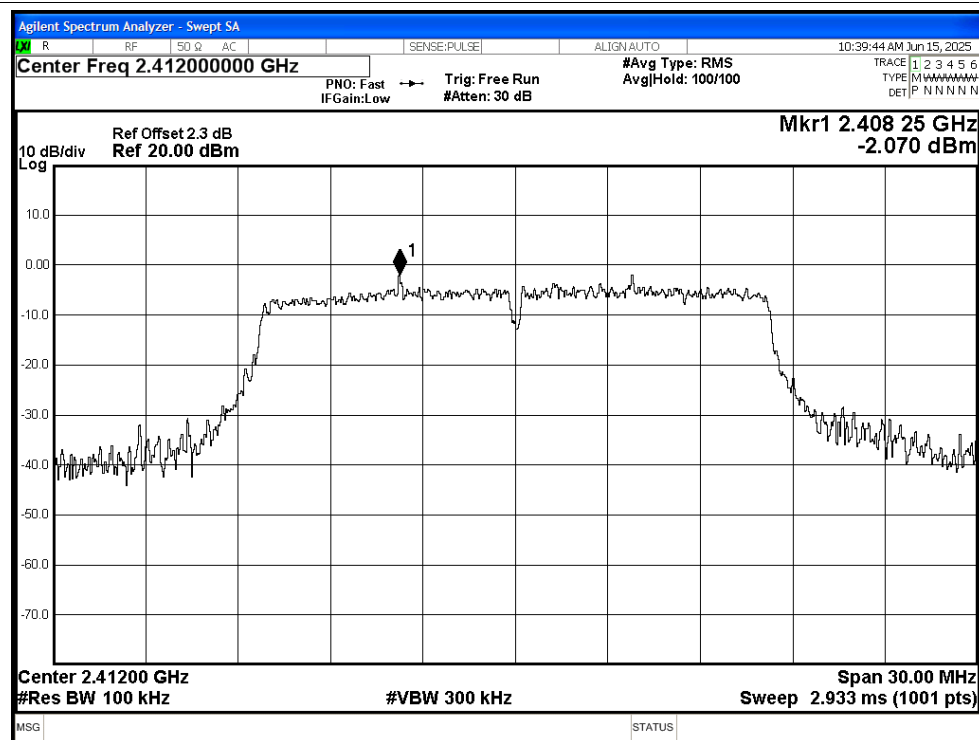
Band Edge NVNT b 2462MHz Ant1 Ref



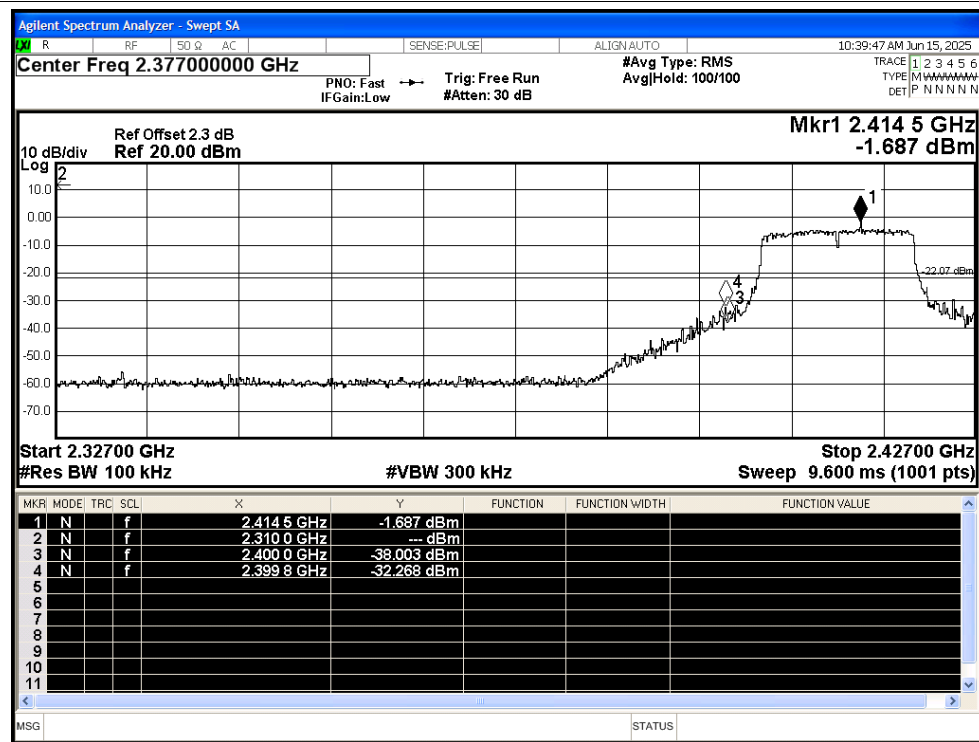
Band Edge NVNT b 2462MHz Ant1 Emission



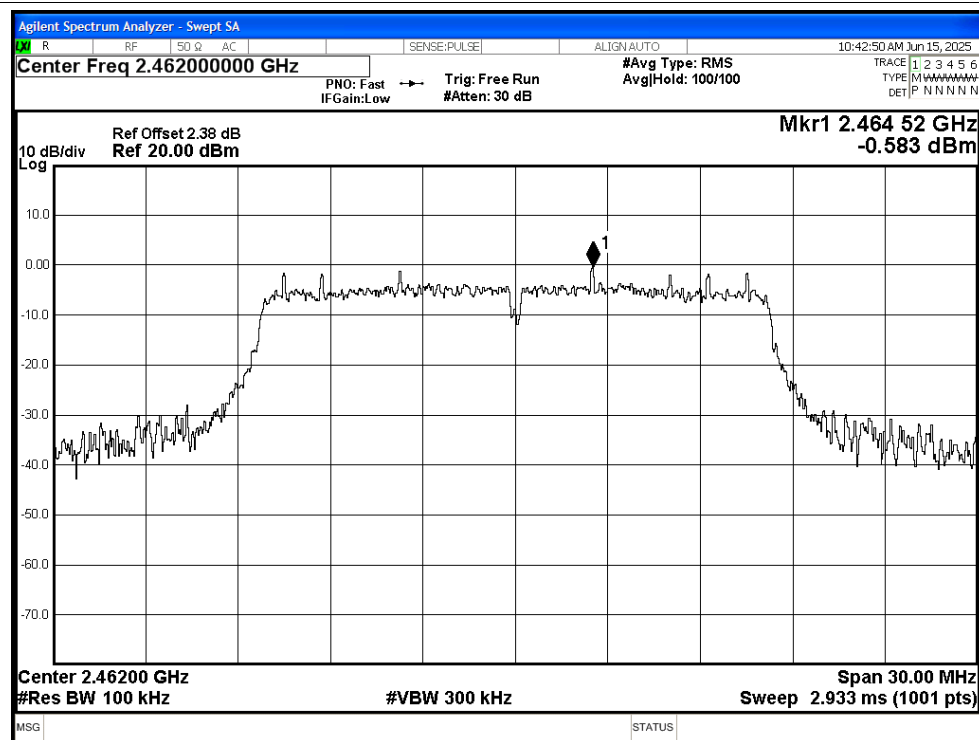
Band Edge NVNT g 2412MHz Ant1 Ref



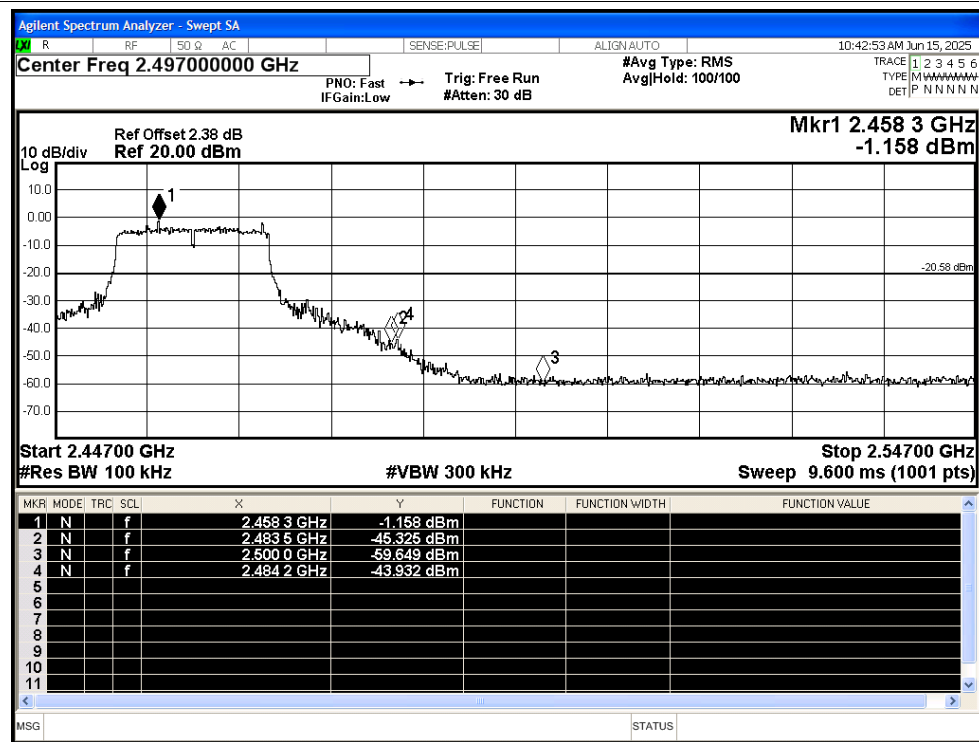
Band Edge NVNT g 2412MHz Ant1 Emission



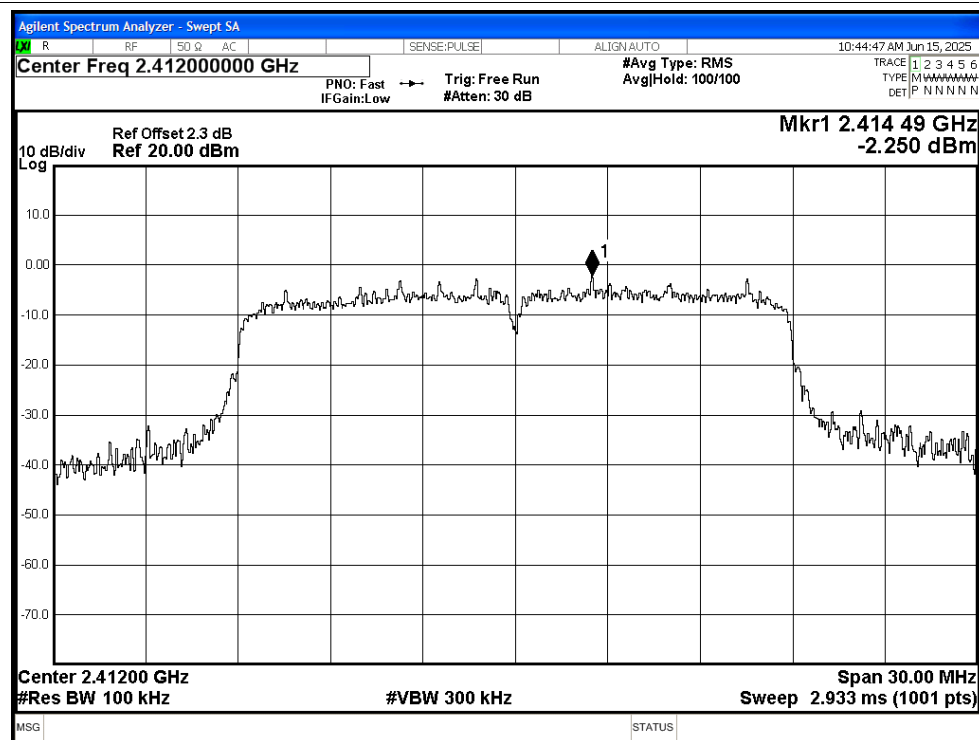
Band Edge NVNT g 2462MHz Ant1 Ref



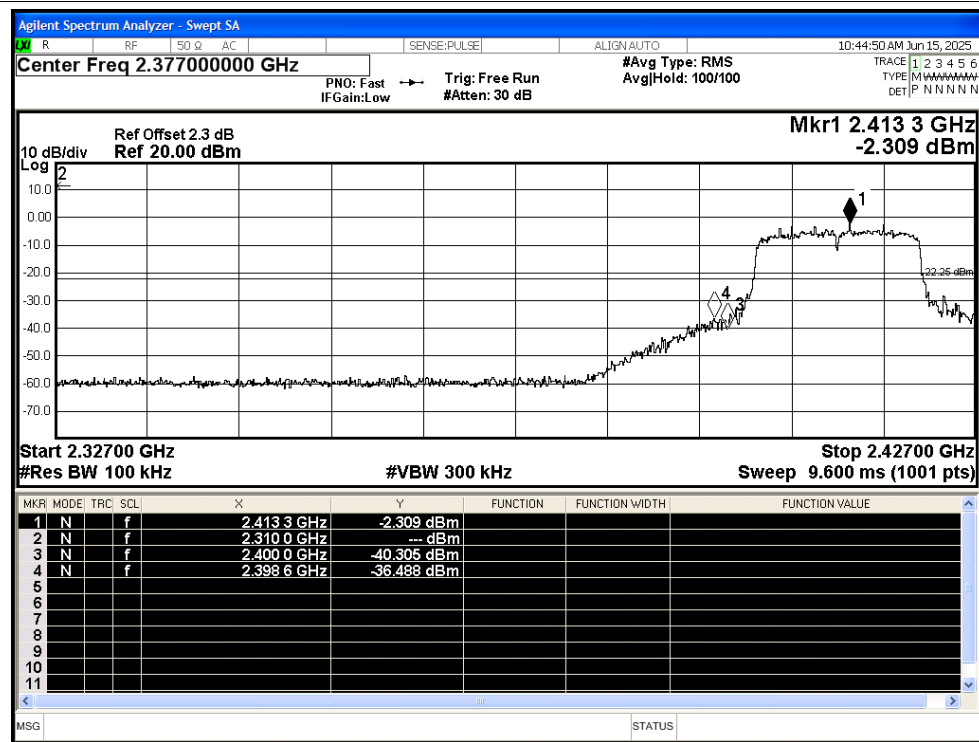
Band Edge NVNT g 2462MHz Ant1 Emission

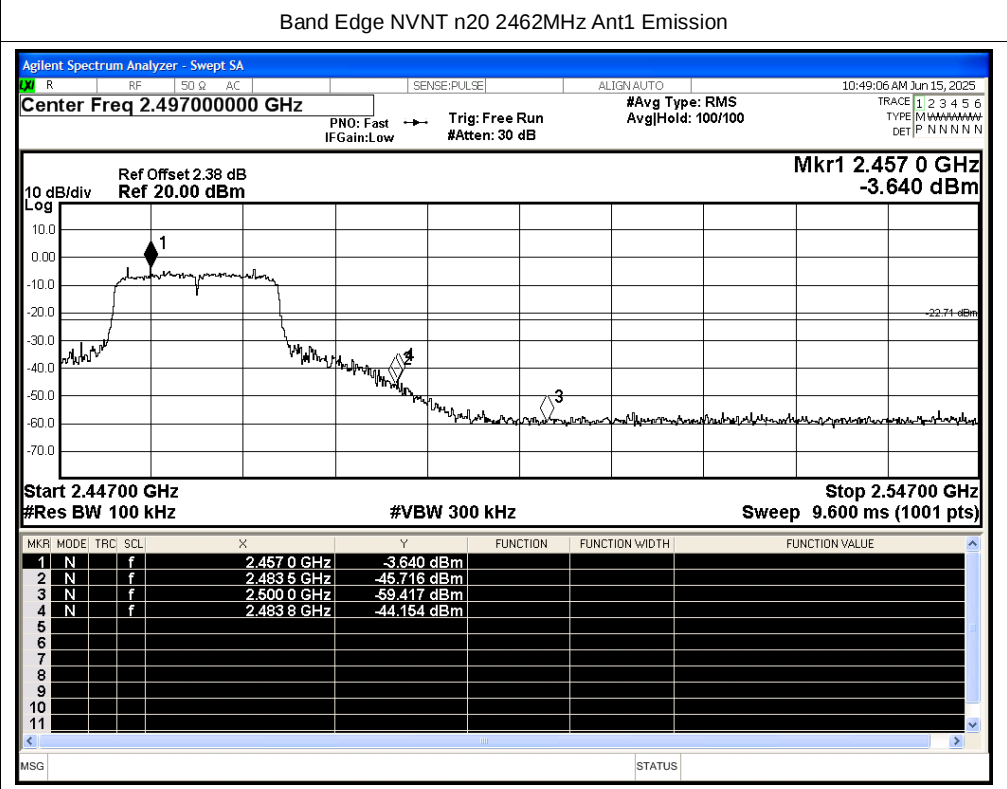
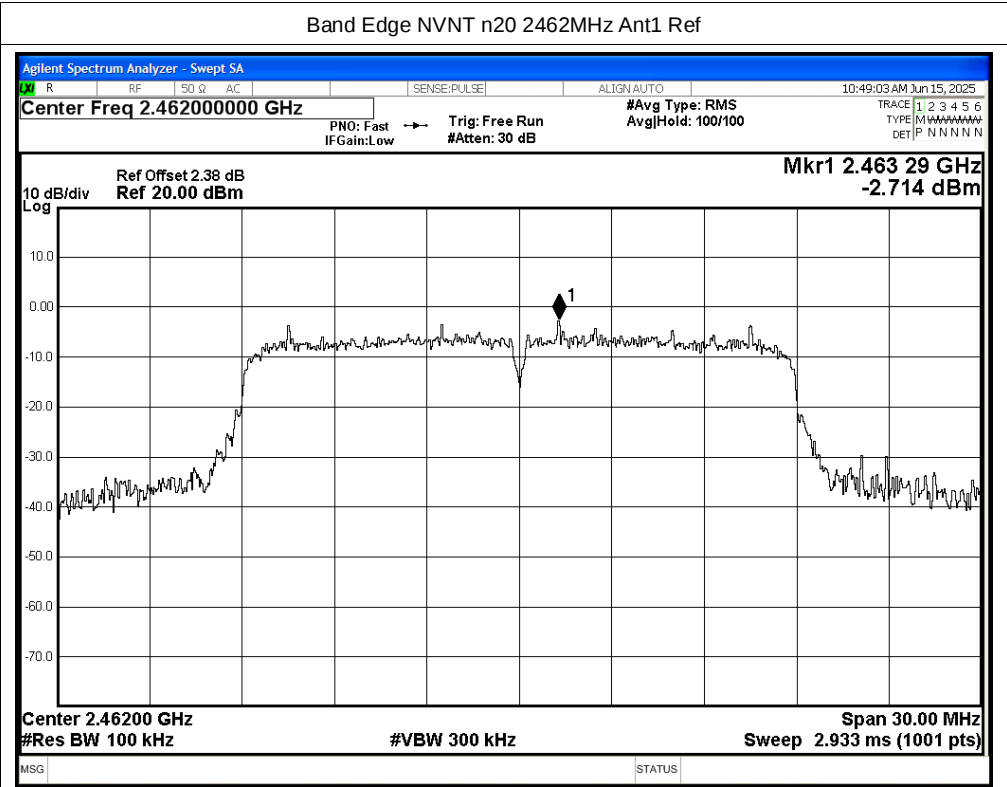


Band Edge NVNT n20 2412MHz Ant1 Ref



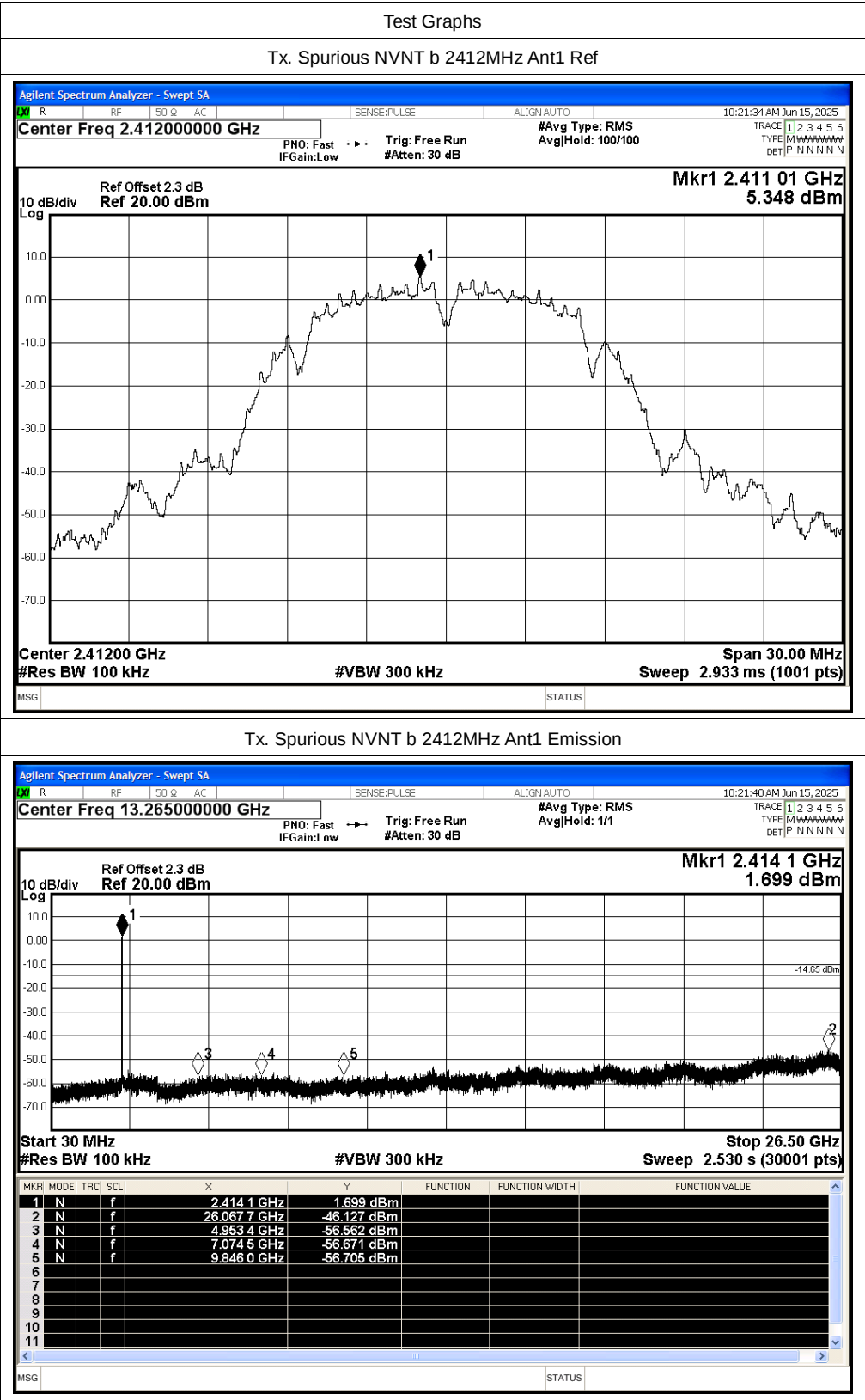
Band Edge NVNT n20 2412MHz Ant1 Emission



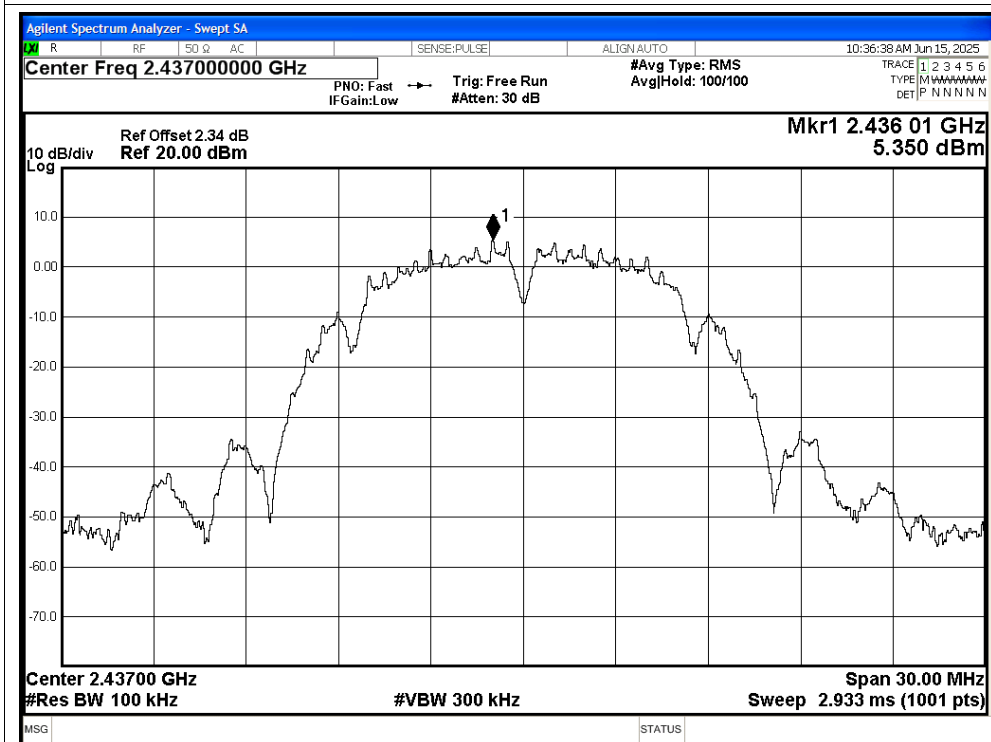


A.5 Conducted RF Spurious Emission

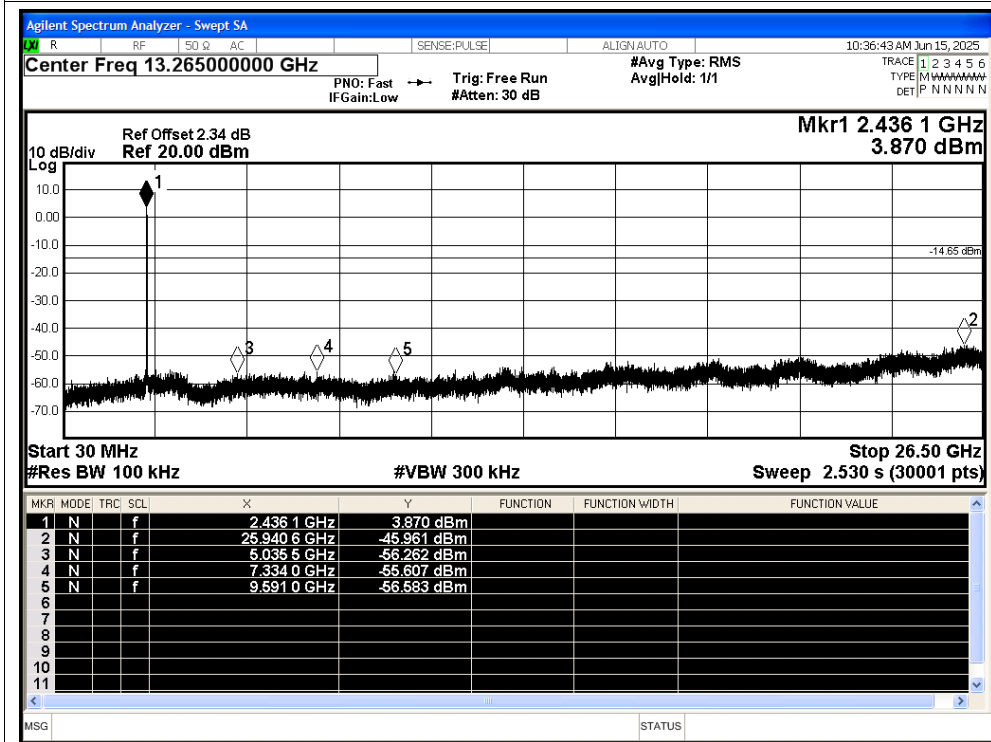
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-51.48	-20	Pass
NVNT	b	2437	Ant1	-51.31	-20	Pass
NVNT	b	2462	Ant1	-51.03	-20	Pass
NVNT	g	2412	Ant1	-45.54	-20	Pass
NVNT	g	2437	Ant1	-44.04	-20	Pass
NVNT	g	2462	Ant1	-45.12	-20	Pass
NVNT	n20	2412	Ant1	-44.14	-20	Pass
NVNT	n20	2437	Ant1	-43.29	-20	Pass
NVNT	n20	2462	Ant1	-41.68	-20	Pass



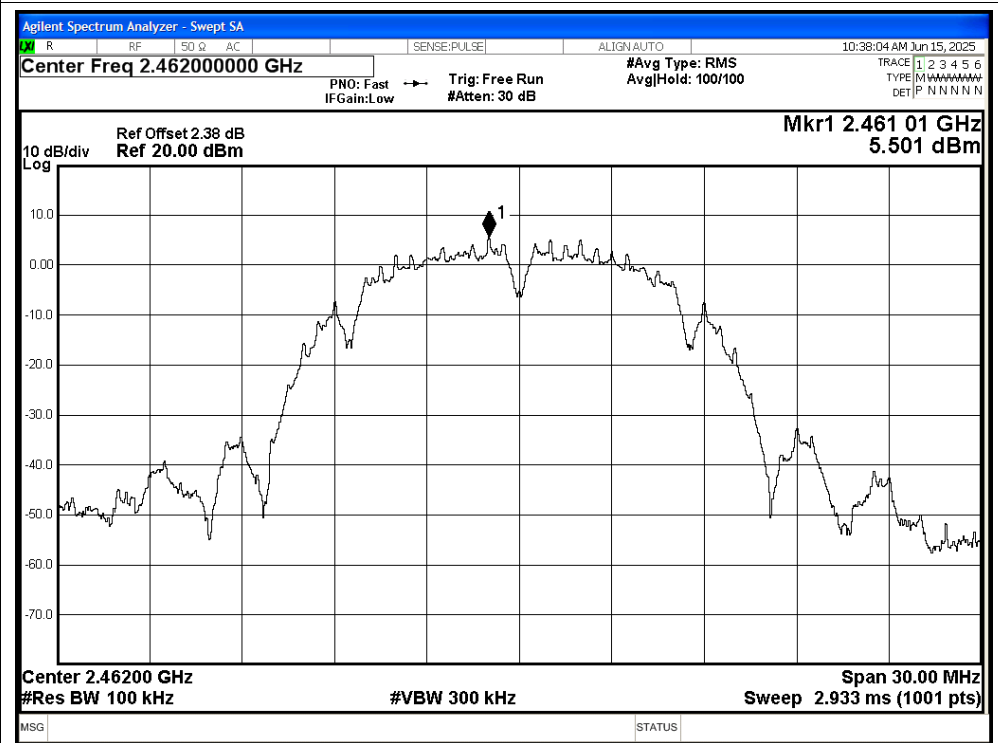
Tx. Spurious NVNT b 2437MHz Ant1 Ref



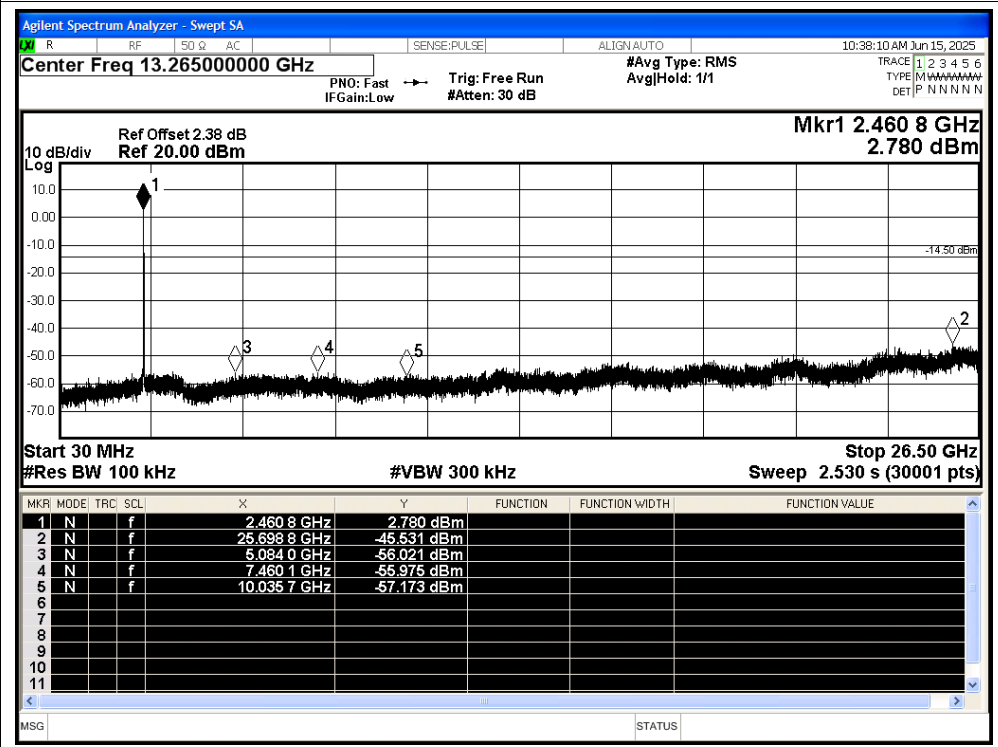
Tx. Spurious NVNT b 2437MHz Ant1 Emission

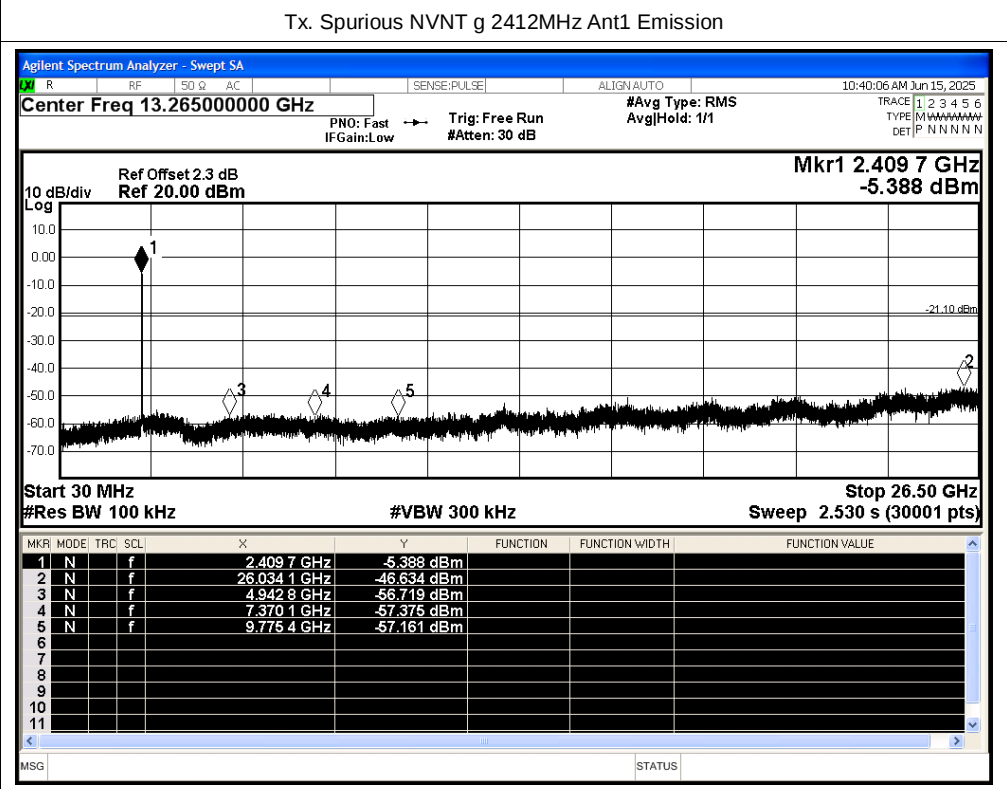
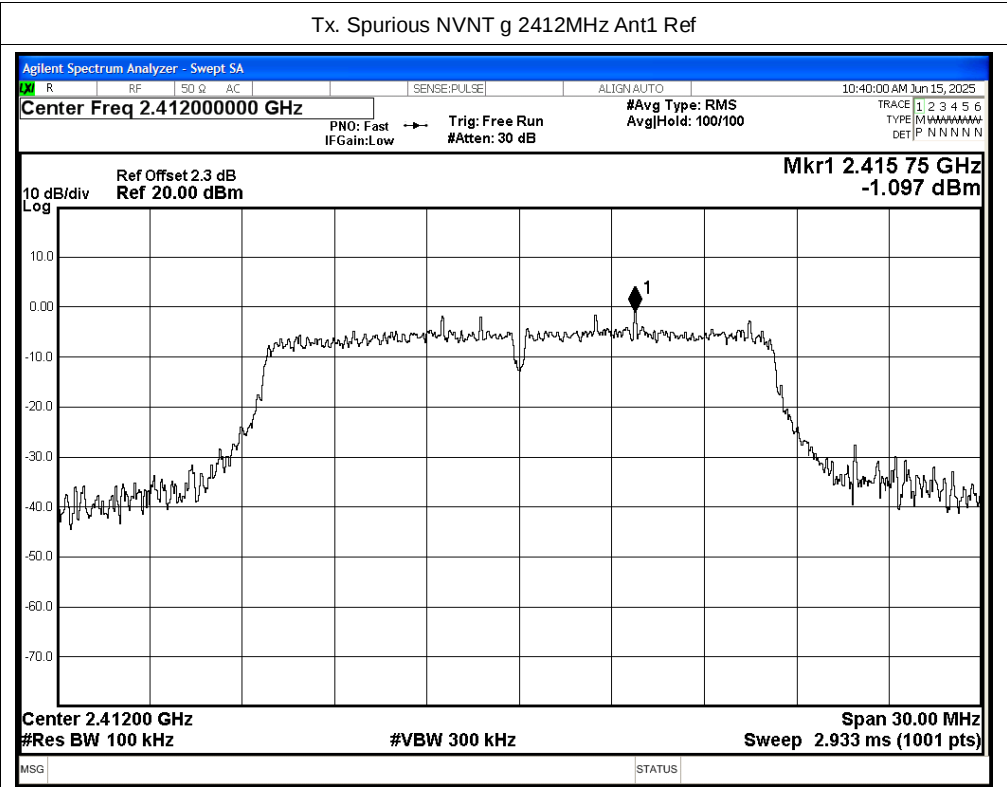


Tx. Spurious NVNT b 2462MHz Ant1 Ref

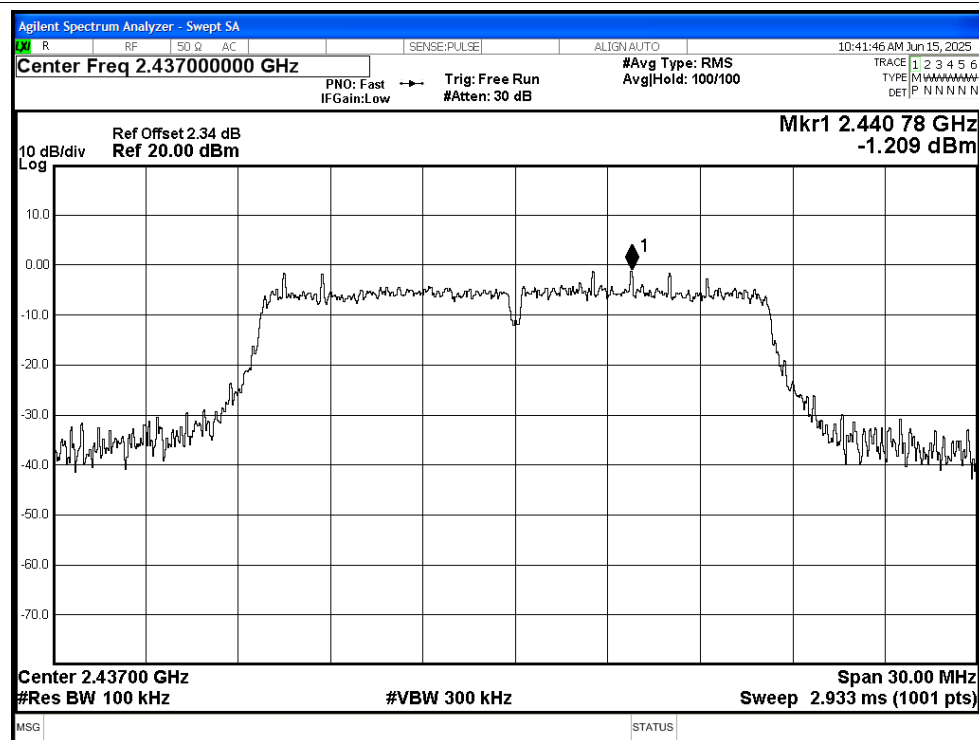


Tx. Spurious NVNT b 2462MHz Ant1 Emission

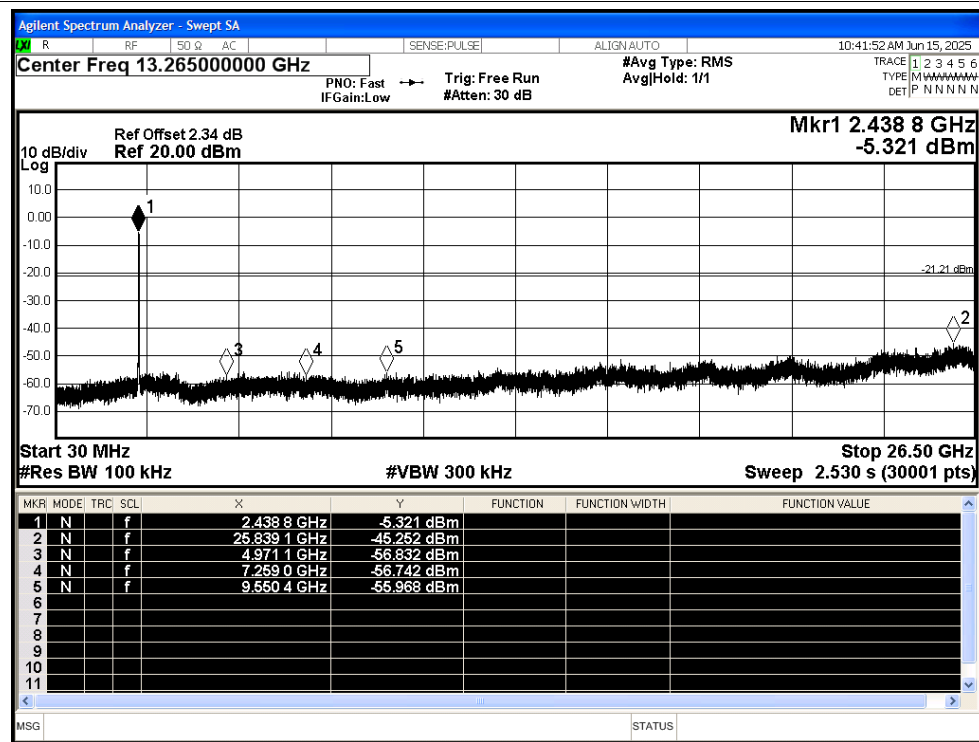




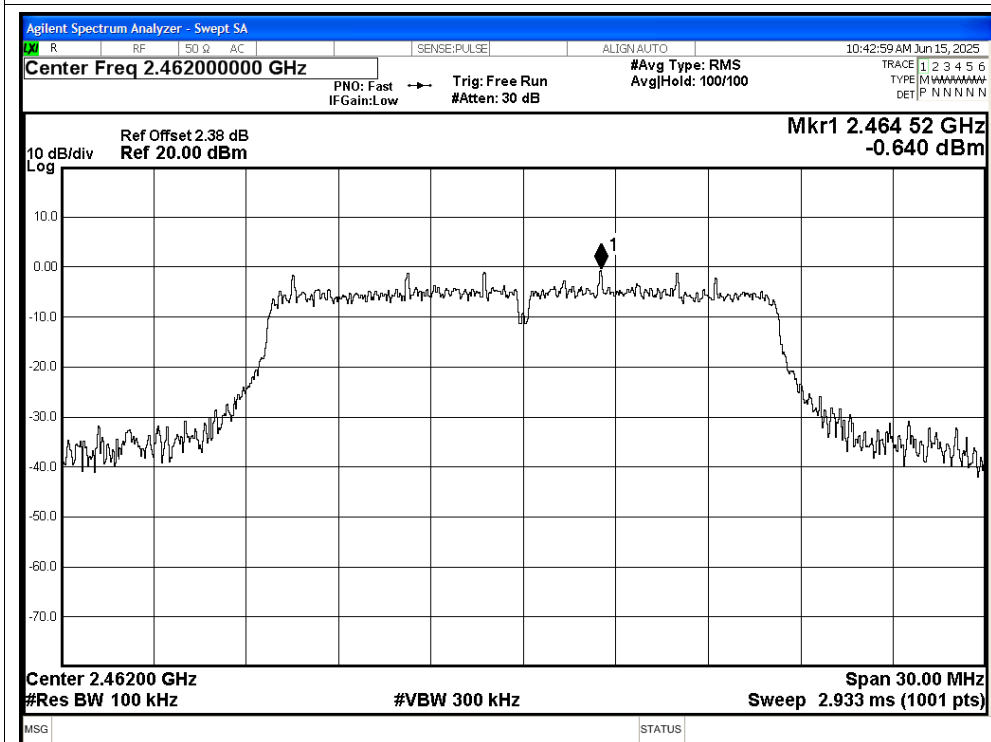
Tx. Spurious NVNT g 2437MHz Ant1 Ref



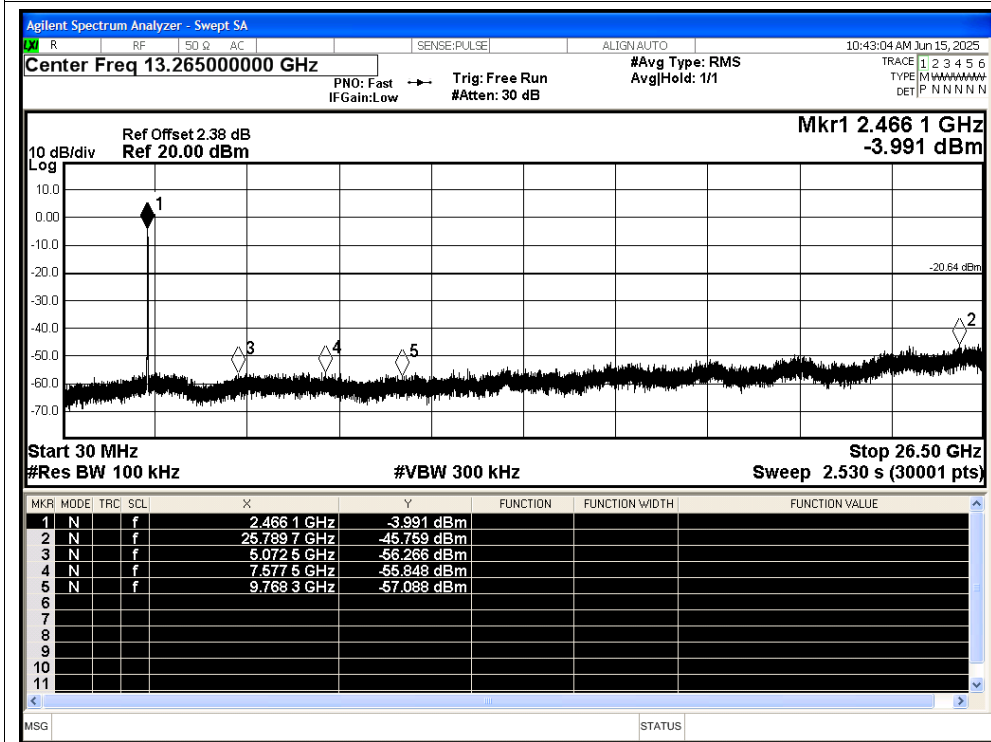
Tx. Spurious NVNT g 2437MHz Ant1 Emission



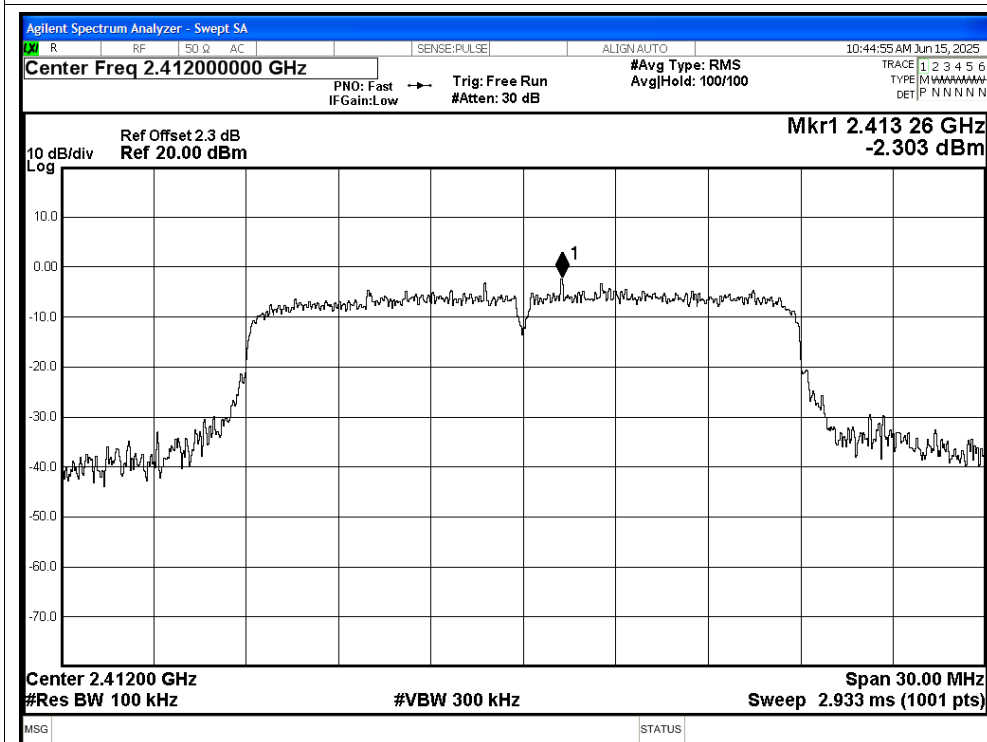
Tx. Spurious NVNT g 2462MHz Ant1 Ref



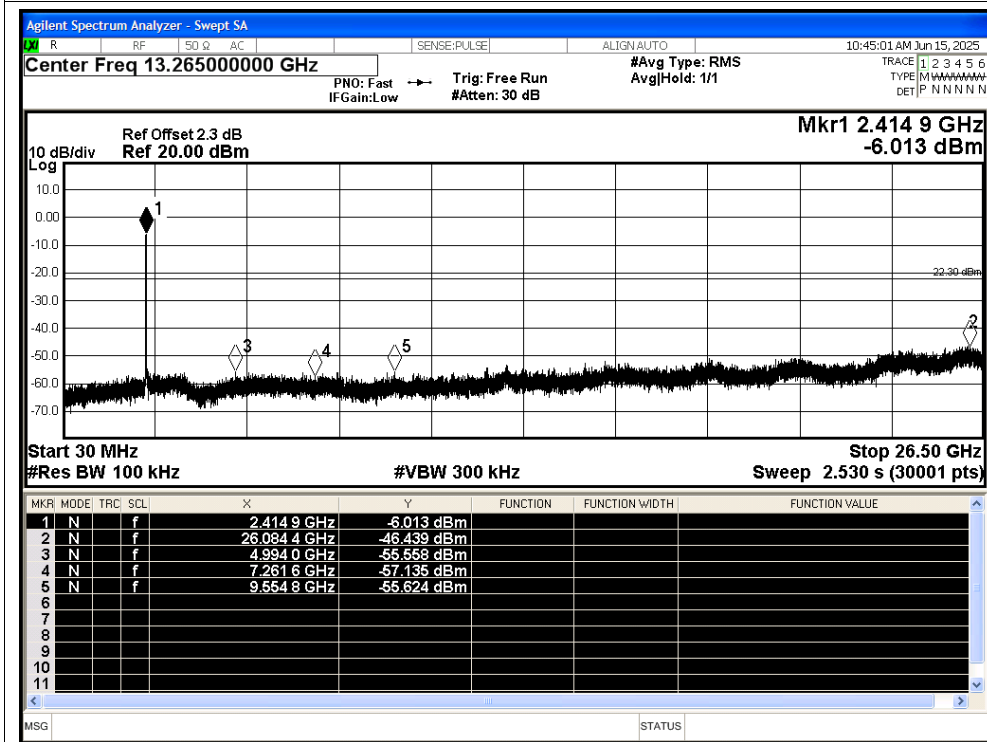
Tx. Spurious NVNT g 2462MHz Ant1 Emission



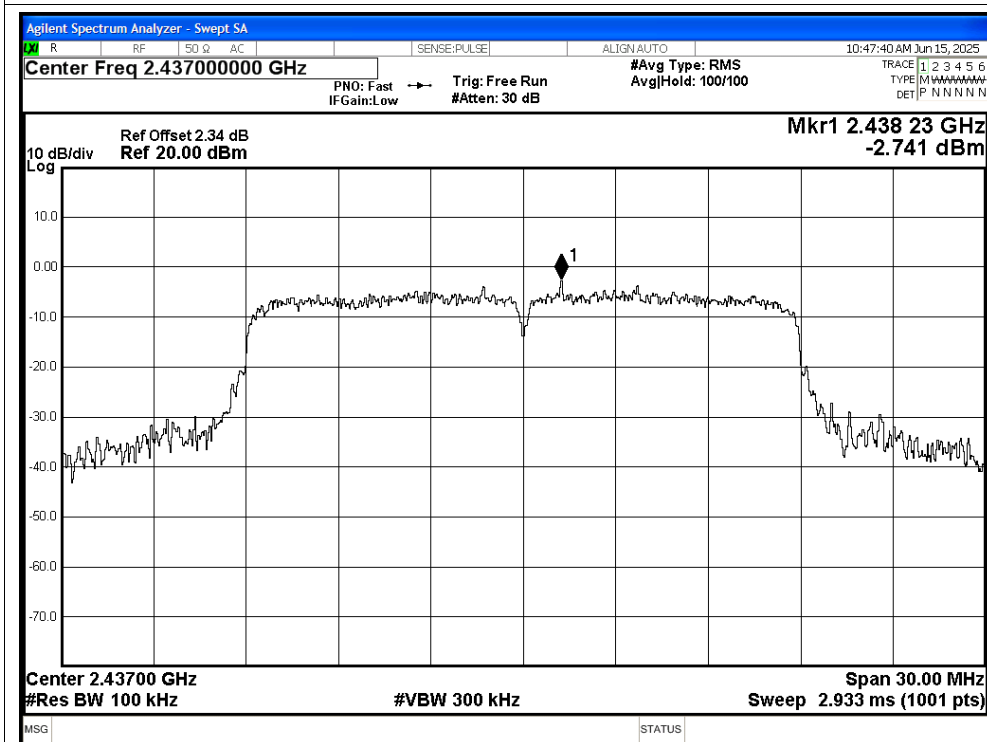
Tx. Spurious NVNT n20 2412MHz Ant1 Ref



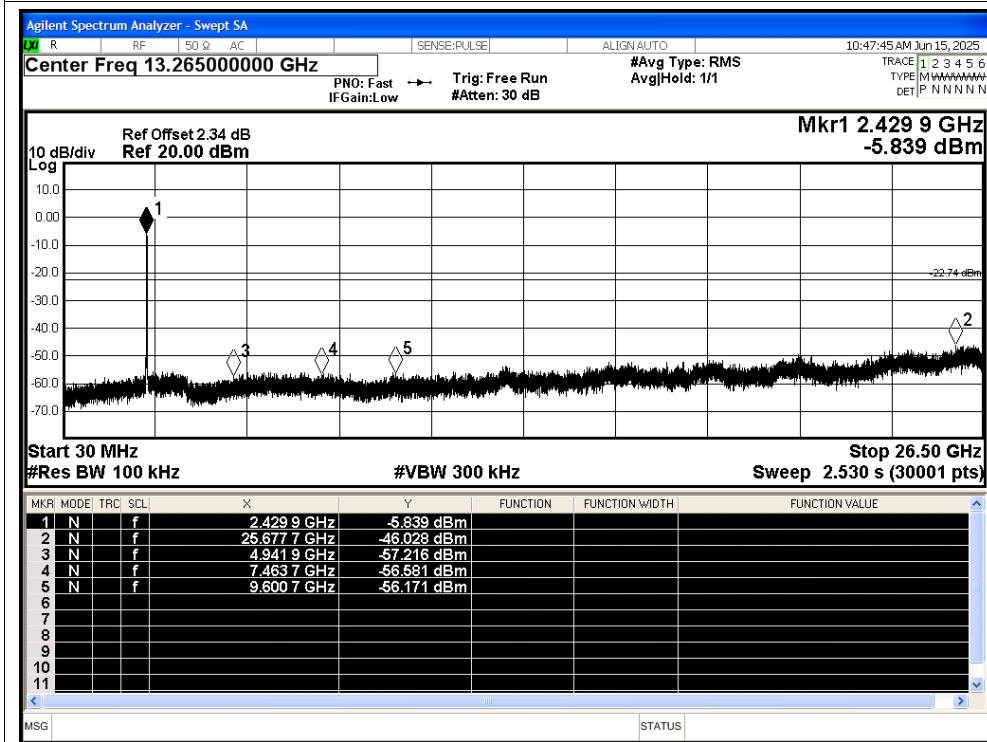
Tx. Spurious NVNT n20 2412MHz Ant1 Emission



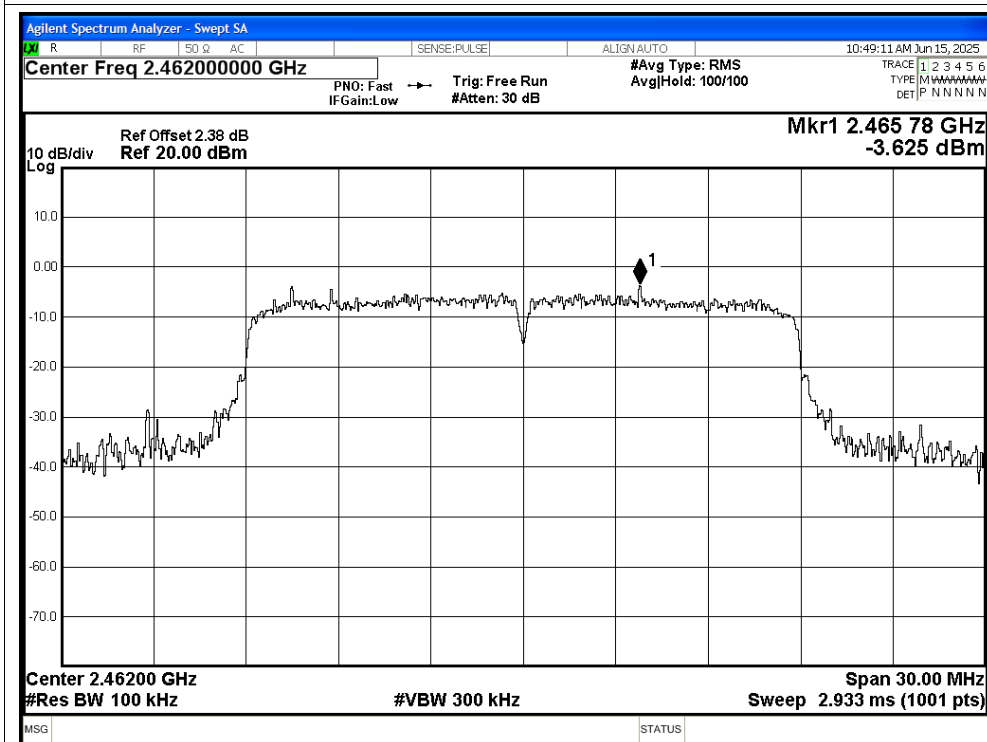
Tx. Spurious NVNT n20 2437MHz Ant1 Ref



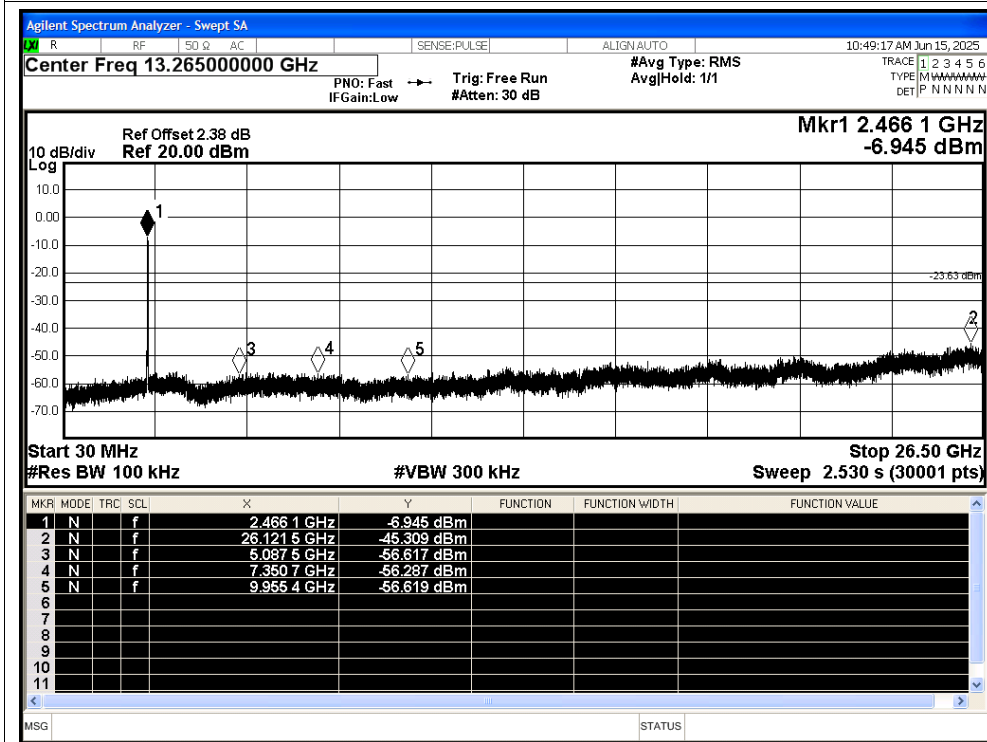
Tx. Spurious NVNT n20 2437MHz Ant1 Emission



Tx. Spurious NVNT n20 2462MHz Ant1 Ref



Tx. Spurious NVNT n20 2462MHz Ant1 Emission

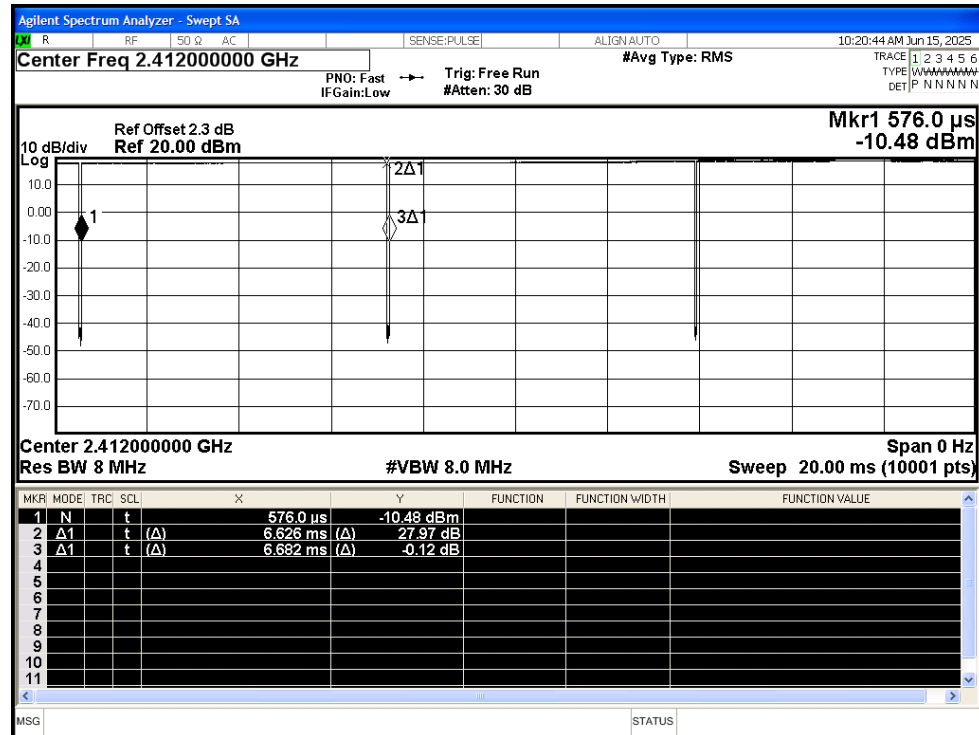


A.6 Duty Cycle

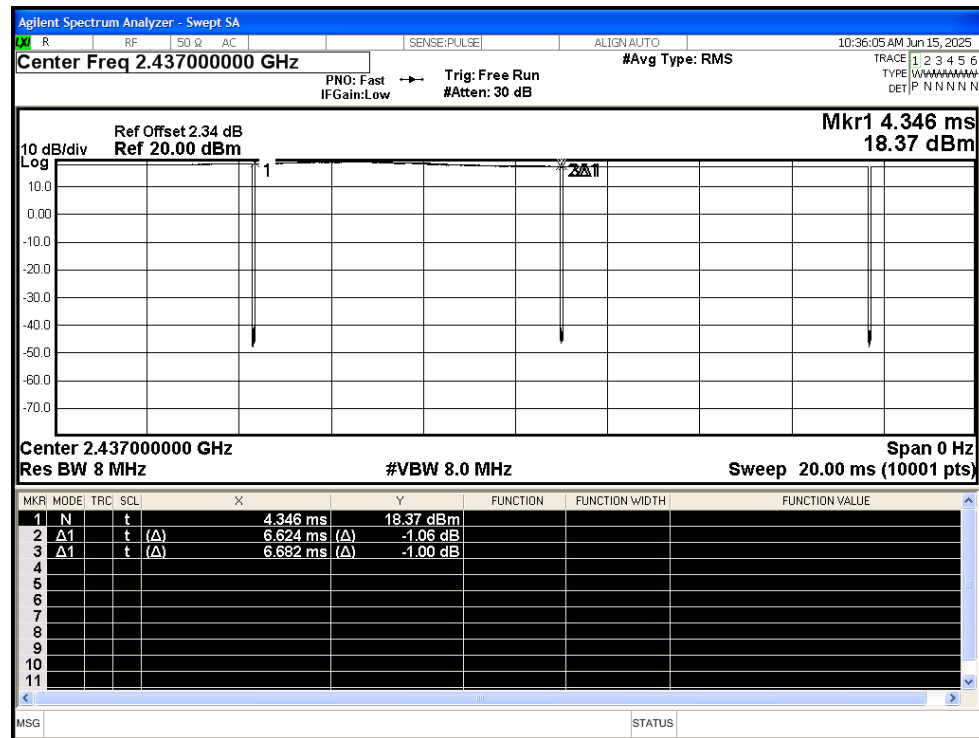
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.16	0	0.15
NVNT	b	2437	Ant1	99.13	0	0.15
NVNT	b	2462	Ant1	99.13	0	0.15
NVNT	g	2412	Ant1	97.75	0.1	0.37
NVNT	g	2437	Ant1	97.75	0.1	0.37
NVNT	g	2462	Ant1	97.75	0.1	0.37
NVNT	n20	2412	Ant1	97.33	0.12	0.44
NVNT	n20	2437	Ant1	97.33	0.12	0.44
NVNT	n20	2462	Ant1	97.25	0.12	0.44

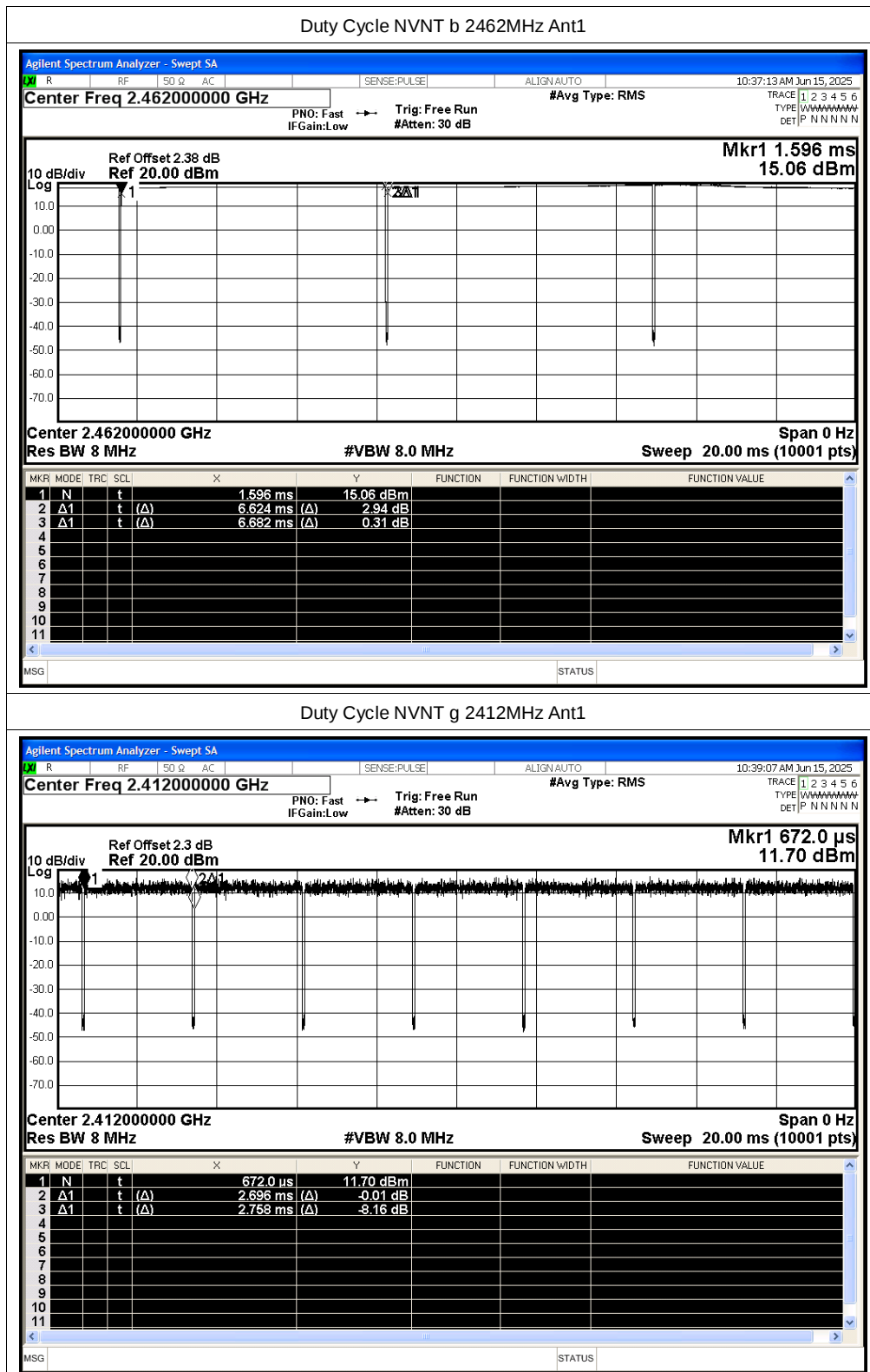
Test Graphs

Duty Cycle NVNT b 2412MHz Ant1

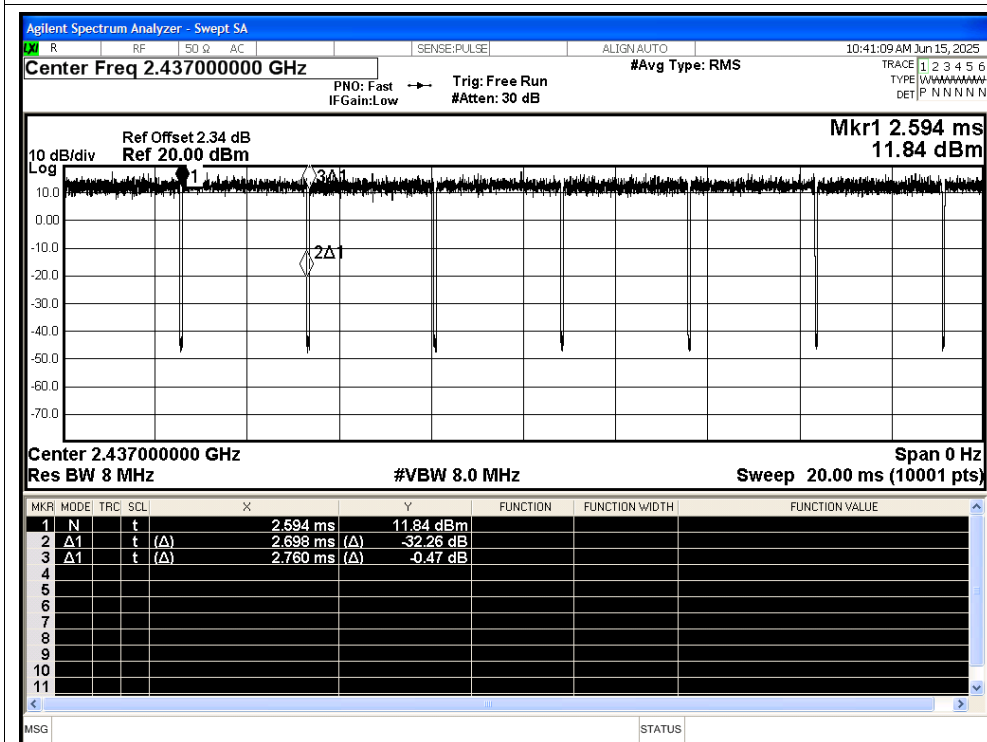


Duty Cycle NVNT b 2437MHz Ant1

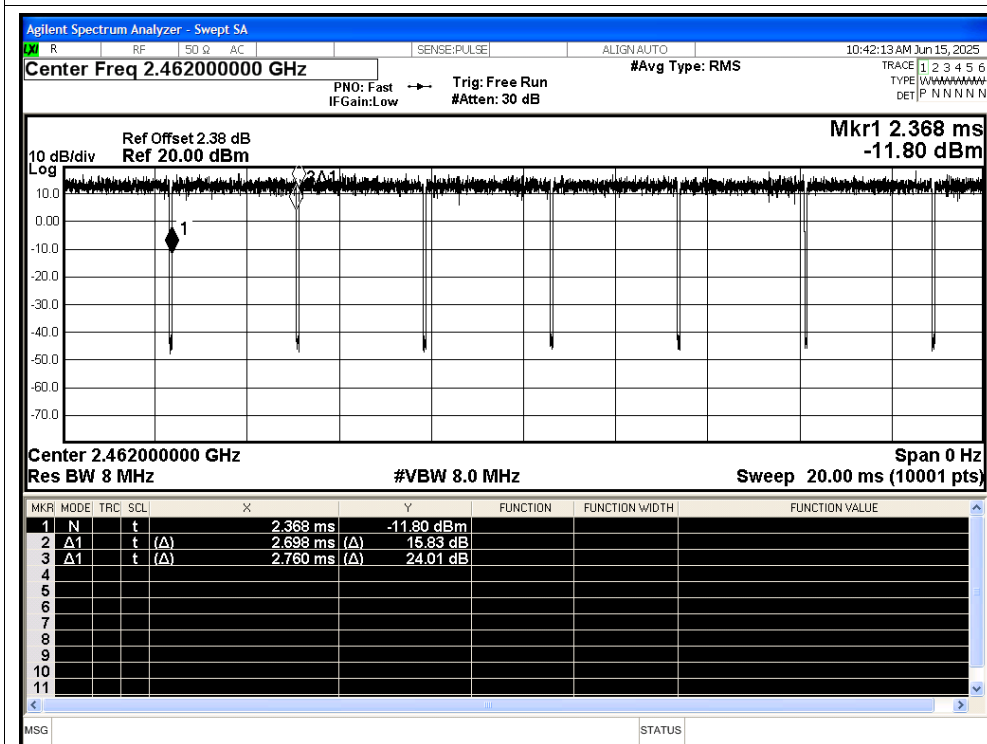


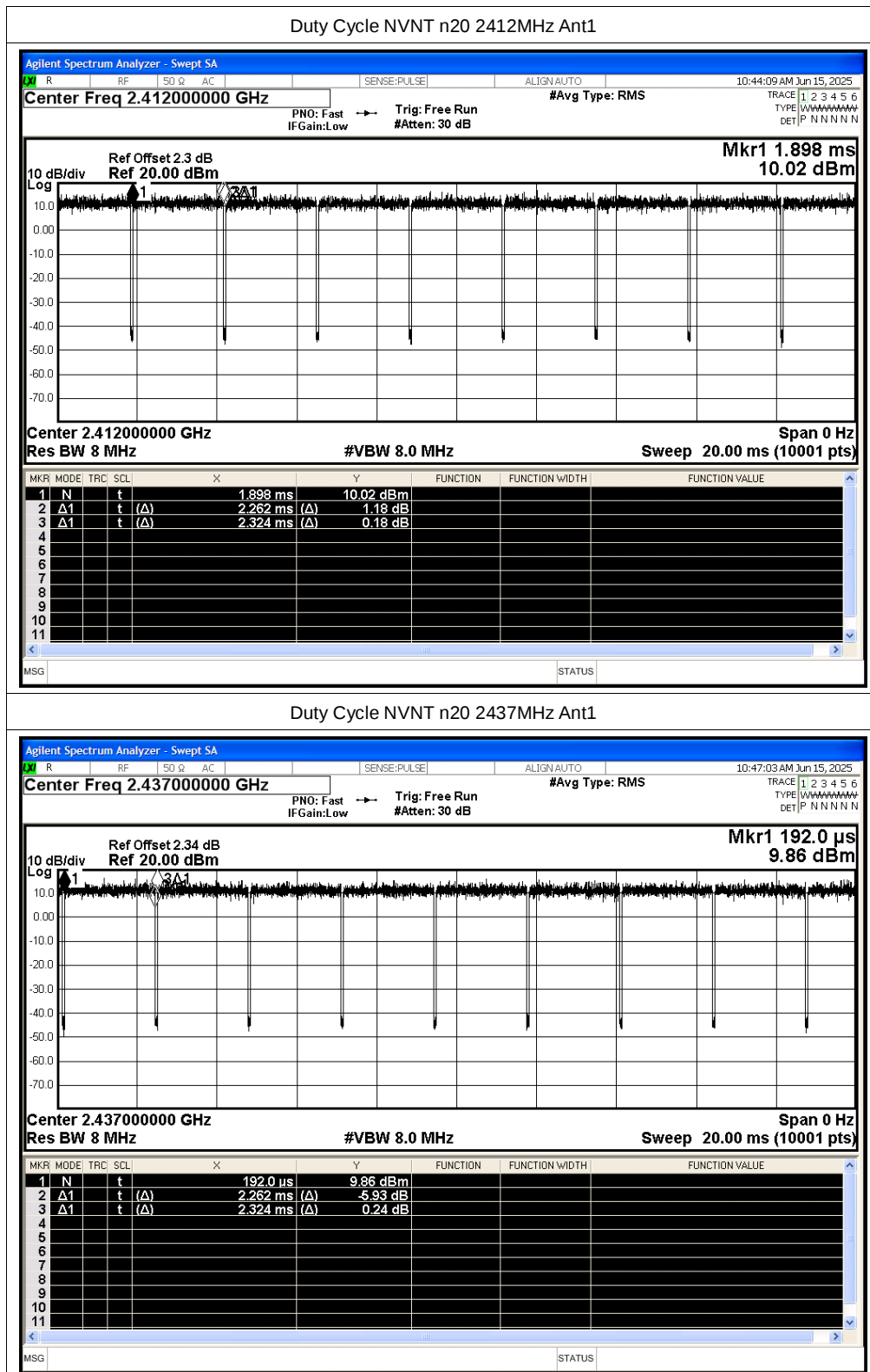


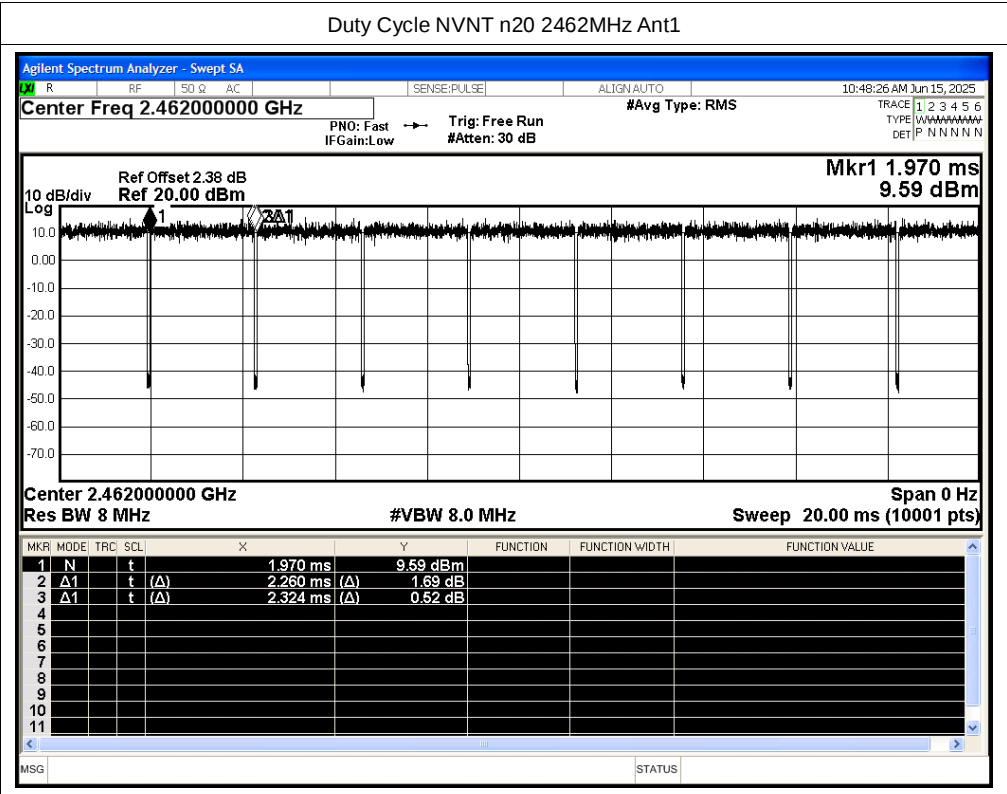
Duty Cycle NVNT g 2437MHz Ant1



Duty Cycle NVNT g 2462MHz Ant1

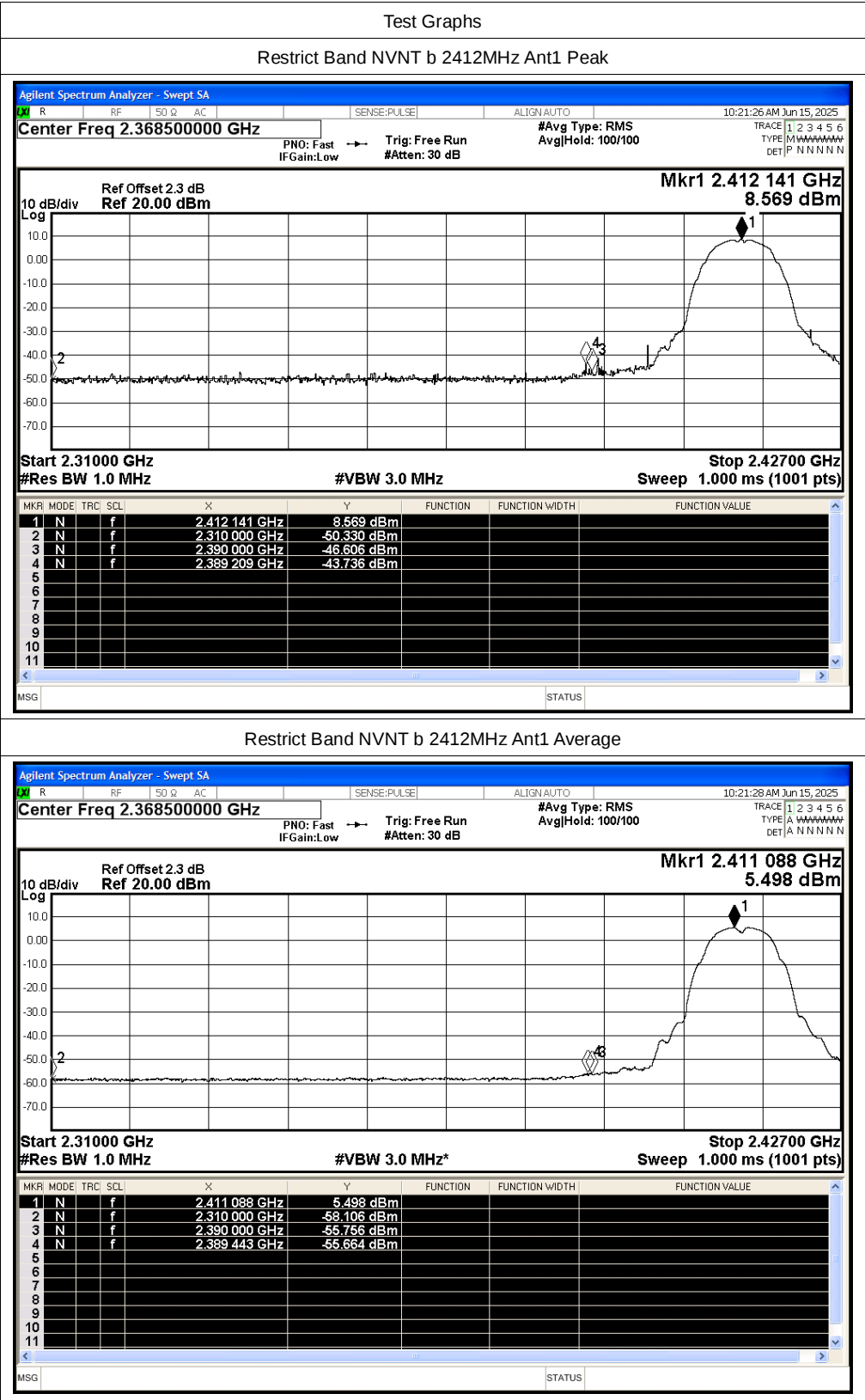




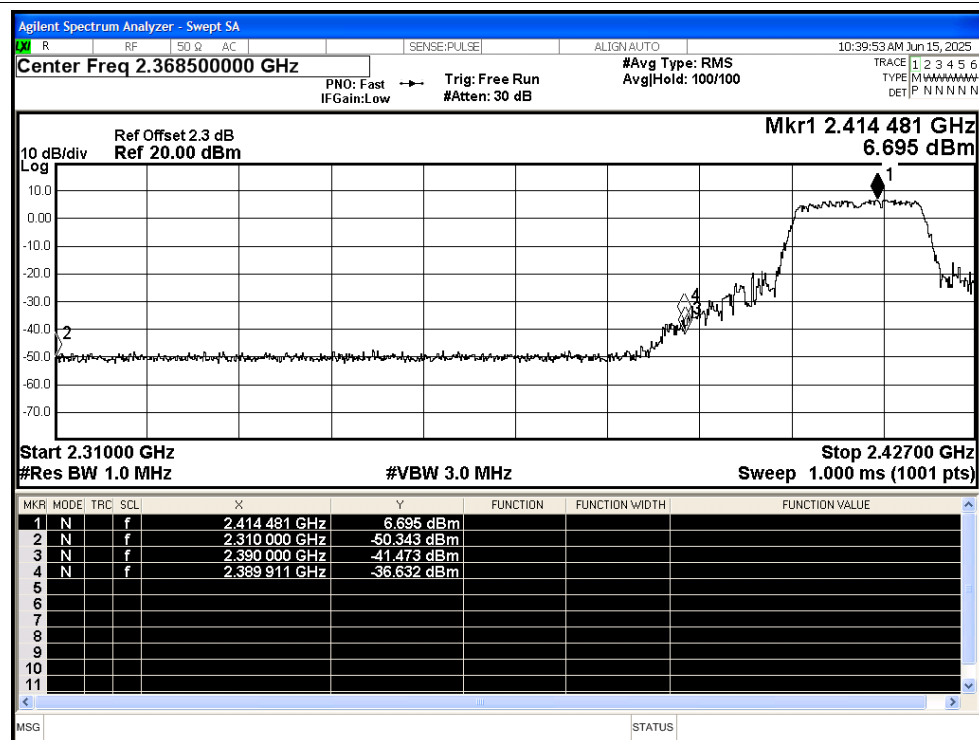


A.7 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor (dB)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	b	2412	Ant1	2310	-50.33	2	-	46.93	Peak	74	Pass
NVNT	b	2412	Ant1	2310	-58.11	2	0	39.15	Average	54	Pass
NVNT	b	2412	Ant1	2389.209	-43.74	2	-	53.52	Peak	74	Pass
NVNT	b	2412	Ant1	2389.443	-55.66	2	0	41.6	Average	54	Pass
NVNT	b	2412	Ant1	2390	-46.61	2	-	50.65	Peak	74	Pass
NVNT	b	2412	Ant1	2390	-55.76	2	0	41.5	Average	54	Pass
NVNT	b	2462	Ant1	2483.5	-47.19	2	-	50.07	Peak	74	Pass
NVNT	b	2462	Ant1	2483.5	-55.02	2	0	42.24	Average	54	Pass
NVNT	b	2462	Ant1	2487.015	-42.08	2	-	55.18	Peak	74	Pass
NVNT	b	2462	Ant1	2484.047	-54.57	2	0	42.69	Average	54	Pass
NVNT	b	2462	Ant1	2500	-49.47	2	-	47.79	Peak	74	Pass
NVNT	b	2462	Ant1	2500	-57.19	2	0	40.07	Average	54	Pass
NVNT	g	2412	Ant1	2310	-50.34	2	-	46.92	Peak	74	Pass
NVNT	g	2412	Ant1	2310	-58.31	2	0.1	39.05	Average	54	Pass
NVNT	g	2412	Ant1	2389.911	-36.63	2	-	60.63	Peak	74	Pass
NVNT	g	2412	Ant1	2389.326	-52.44	2	0.1	44.92	Average	54	Pass
NVNT	g	2412	Ant1	2390	-41.47	2	-	55.79	Peak	74	Pass
NVNT	g	2412	Ant1	2390	-52.09	2	0.1	45.27	Average	54	Pass
NVNT	g	2462	Ant1	2483.5	-44.26	2	-	53	Peak	74	Pass
NVNT	g	2462	Ant1	2483.5	-56.81	2	0.1	40.55	Average	54	Pass
NVNT	g	2462	Ant1	2484.895	-40.9	2	-	56.36	Peak	74	Pass
NVNT	g	2462	Ant1	2483.782	-55.73	2	0.1	41.63	Average	54	Pass
NVNT	g	2462	Ant1	2500	-49.29	2	-	47.97	Peak	74	Pass
NVNT	g	2462	Ant1	2500	-58.12	2	0.1	39.24	Average	54	Pass
NVNT	n20	2412	Ant1	2310	-50.88	2	-	46.38	Peak	74	Pass
NVNT	n20	2412	Ant1	2310	-58.06	2	0.12	39.32	Average	54	Pass
NVNT	n20	2412	Ant1	2389.911	-42.08	2	-	55.18	Peak	74	Pass
NVNT	n20	2412	Ant1	2389.677	-56.25	2	0.12	41.13	Average	54	Pass
NVNT	n20	2412	Ant1	2390	-45.29	2	-	51.97	Peak	74	Pass
NVNT	n20	2412	Ant1	2390	-57.05	2	0.12	40.33	Average	54	Pass
NVNT	n20	2462	Ant1	2483.5	-44.14	2	-	53.12	Peak	74	Pass
NVNT	n20	2462	Ant1	2483.5	-55.67	2	0.12	41.71	Average	54	Pass
NVNT	n20	2462	Ant1	2483.941	-40.3	2	-	56.96	Peak	74	Pass
NVNT	n20	2462	Ant1	2483.57	-54.15	2	0.12	43.23	Average	54	Pass
NVNT	n20	2462	Ant1	2500	-49.44	2	-	47.82	Peak	74	Pass
NVNT	n20	2462	Ant1	2500	-57.81	2	0.12	39.57	Average	54	Pass



Restrict Band NVNT g 2412MHz Ant1 Peak



Restrict Band NVNT g 2412MHz Ant1 Average

