



Appendix B

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Smart Treadmill

Test Model: CT04

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Taylor Hu
Supervised by:	Ling Zhu





B.1 -6dB Bandwidth

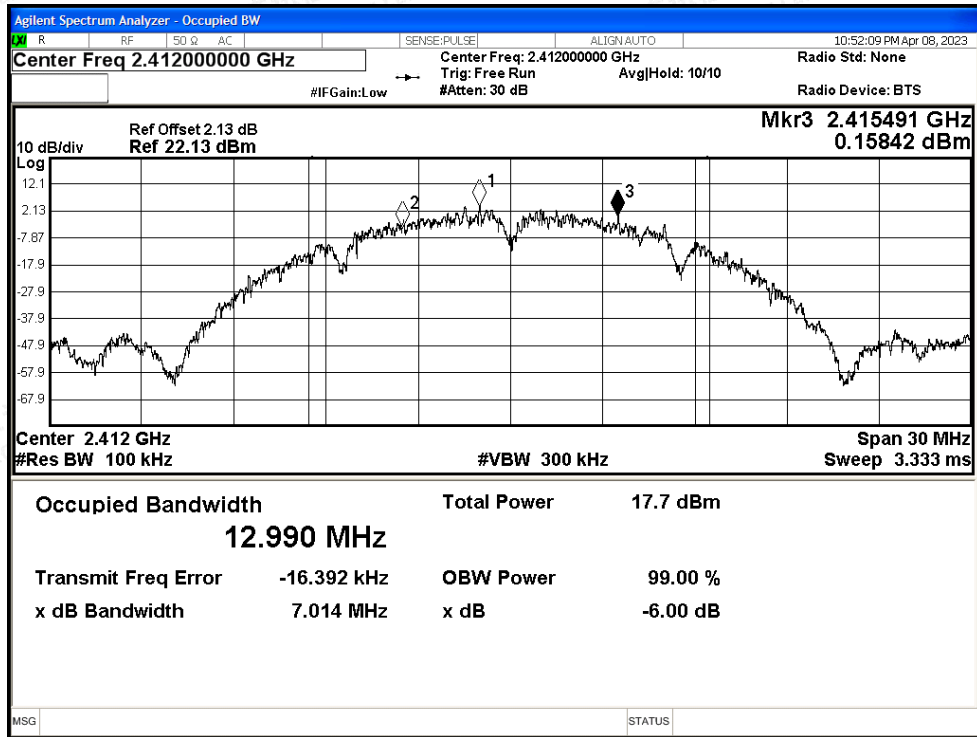
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	7.014	≥ 0.5	Pass
NVNT	b	2437	Ant1	8.513	≥ 0.5	Pass
NVNT	b	2462	Ant1	8.082	≥ 0.5	Pass
NVNT	g	2412	Ant1	16.365	≥ 0.5	Pass
NVNT	g	2437	Ant1	11.309	≥ 0.5	Pass
NVNT	g	2462	Ant1	16.054	≥ 0.5	Pass
NVNT	n20	2412	Ant1	17.554	≥ 0.5	Pass
NVNT	n20	2437	Ant1	16.92	≥ 0.5	Pass
NVNT	n20	2462	Ant1	14.72	≥ 0.5	Pass
NVNT	n40	2422	Ant1	35.138	≥ 0.5	Pass
NVNT	n40	2437	Ant1	35.09	≥ 0.5	Pass
NVNT	n40	2452	Ant1	35.109	≥ 0.5	Pass



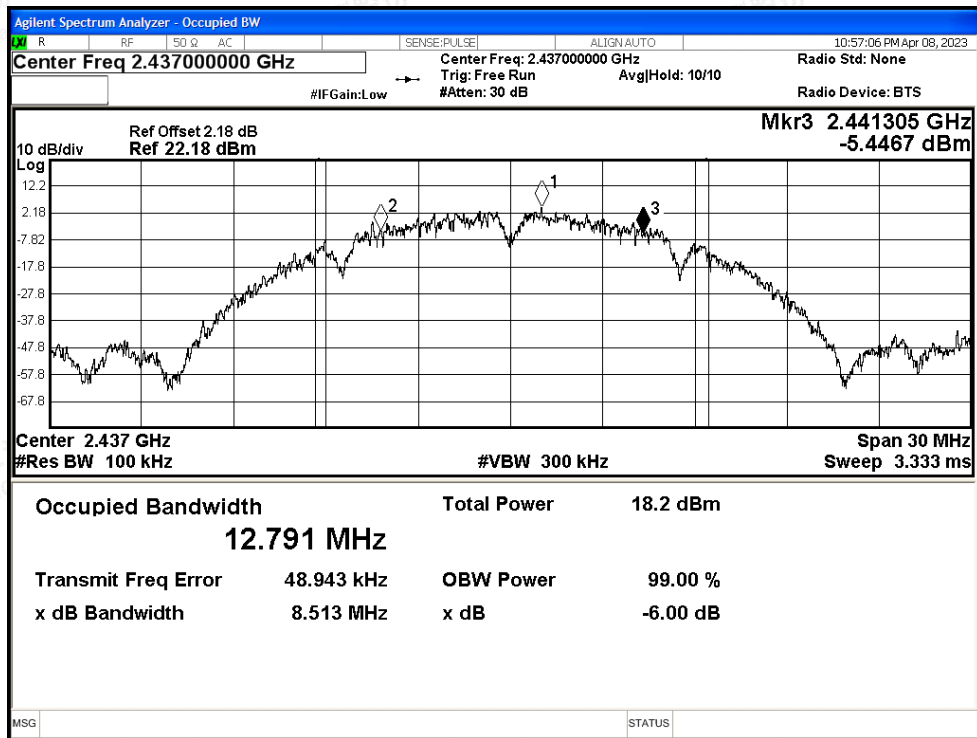


Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1

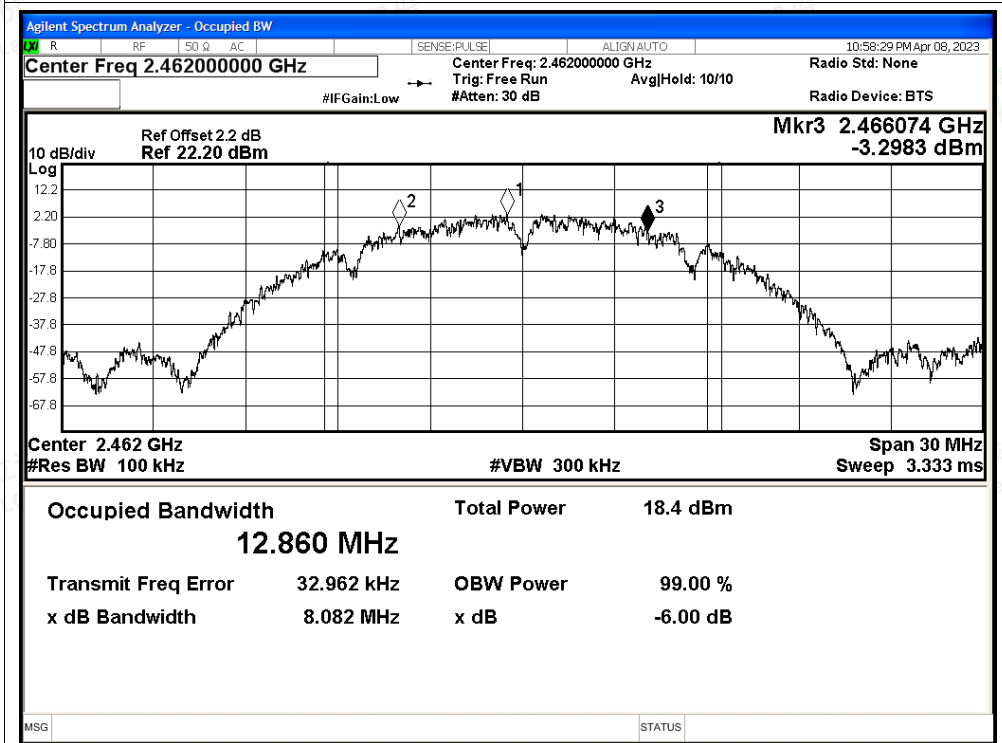


-6dB Bandwidth NVNT b 2437MHz Ant1

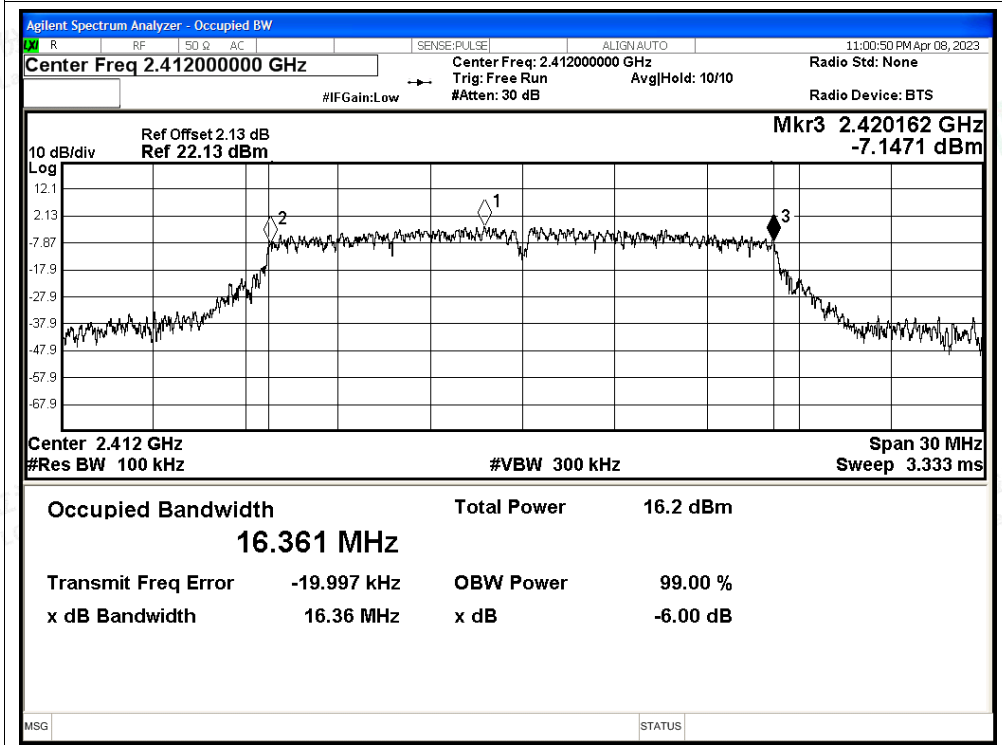


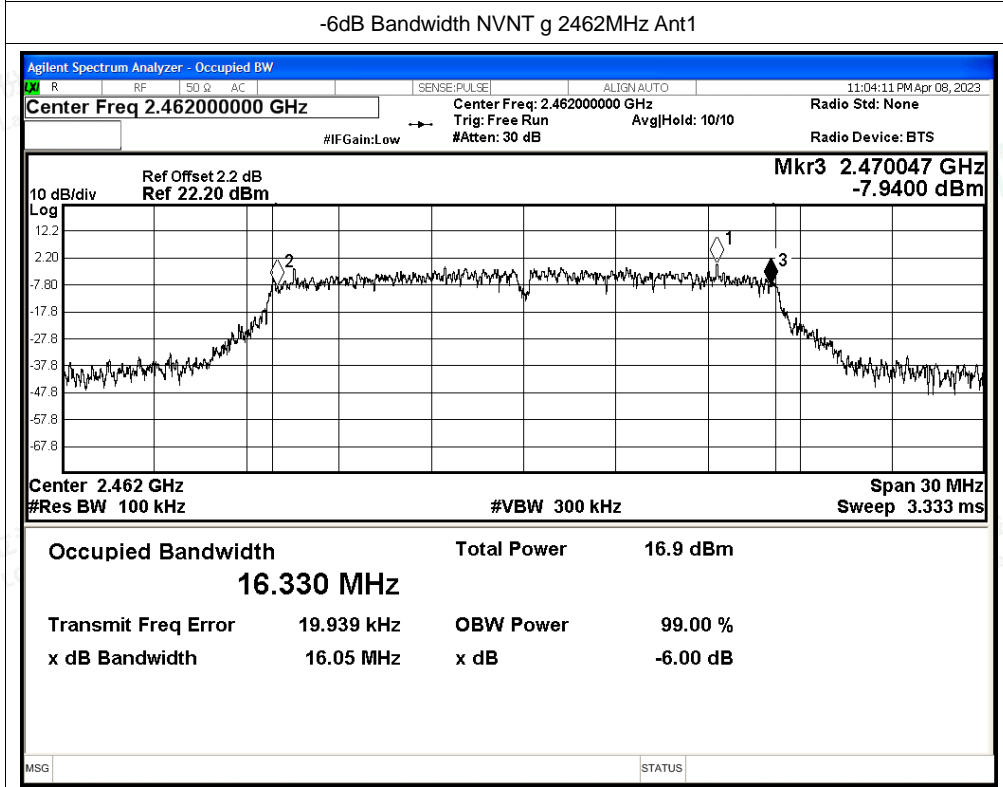
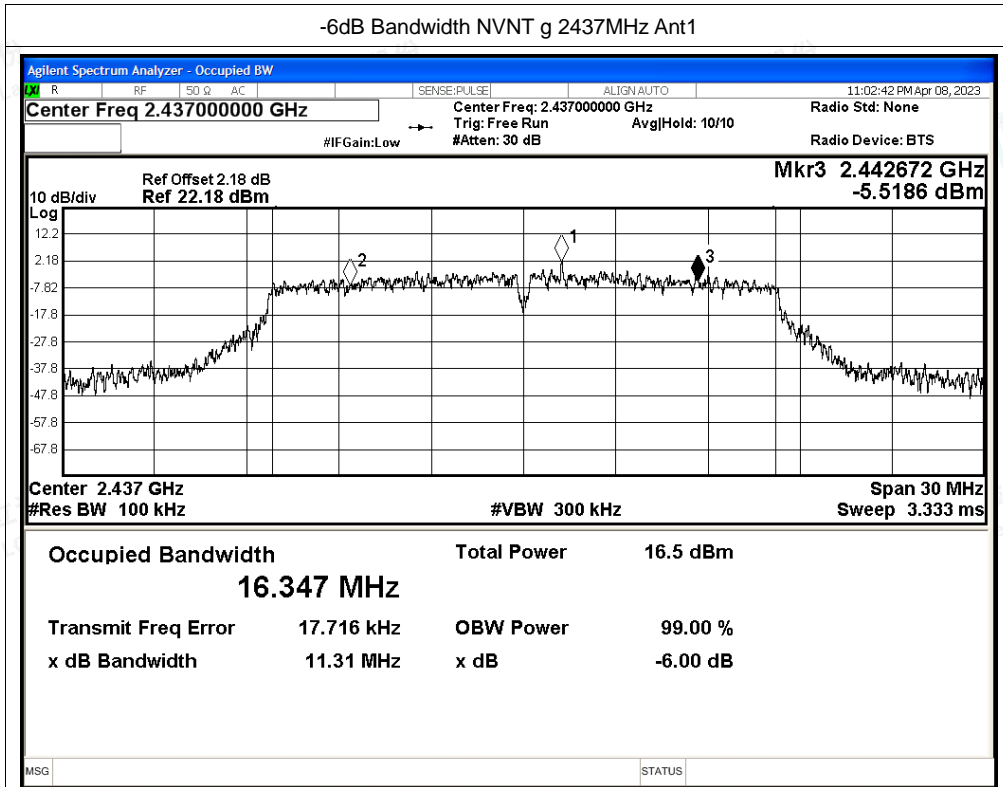


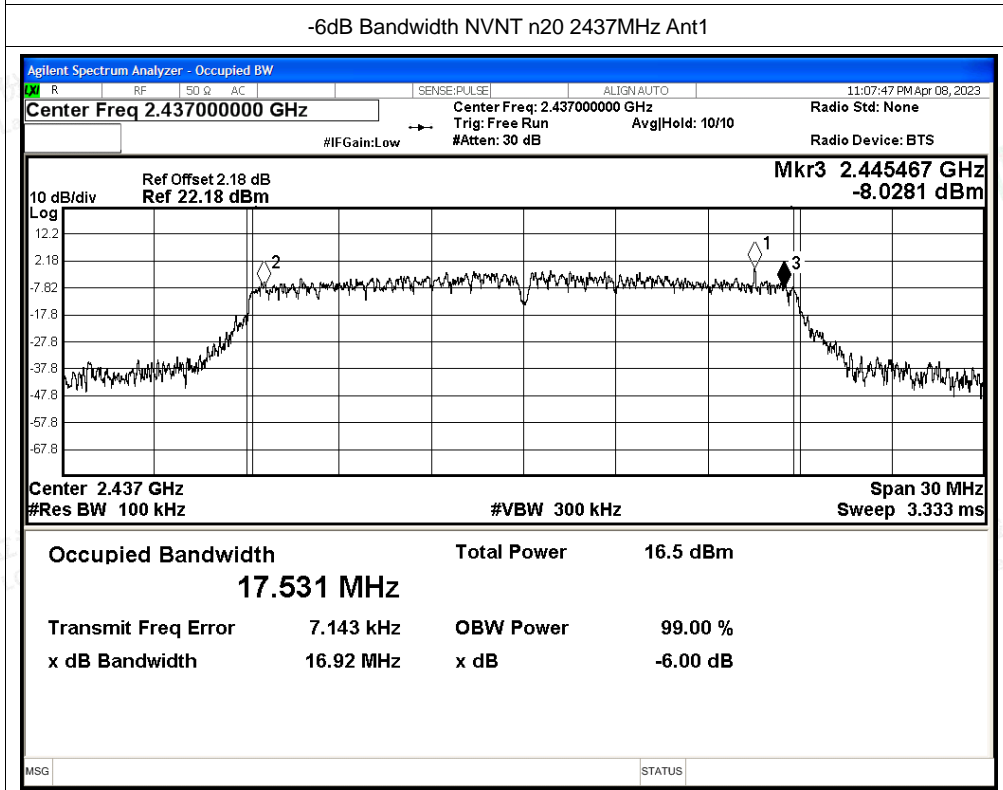
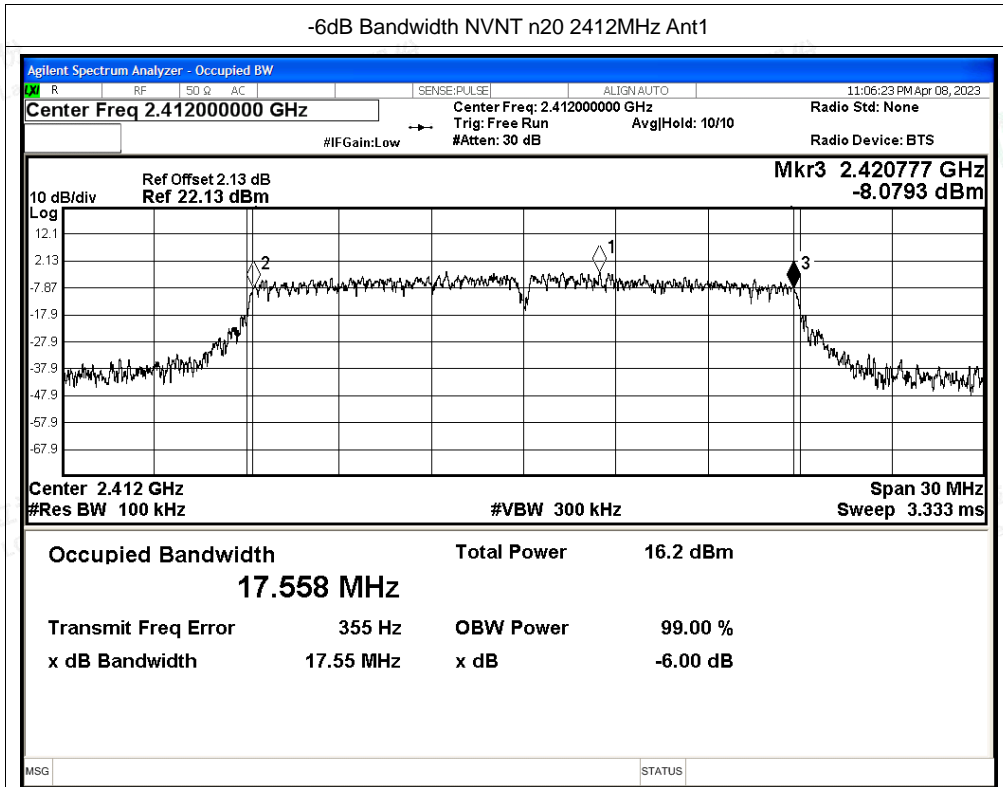
-6dB Bandwidth NVNT b 2462MHz Ant1

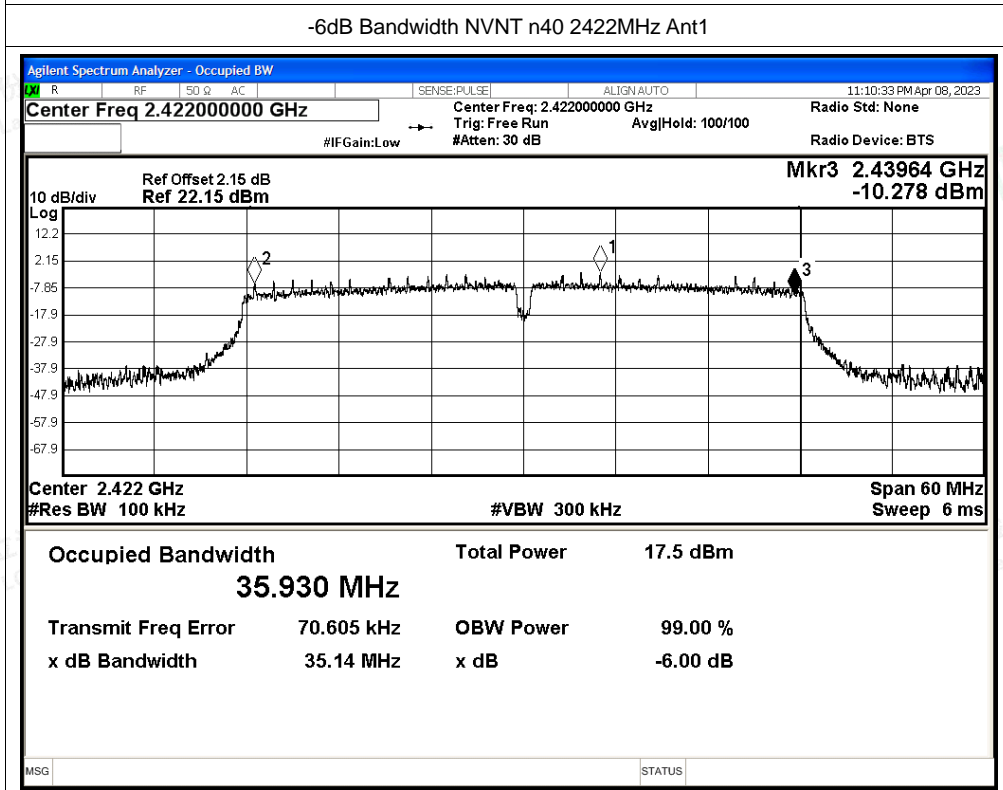
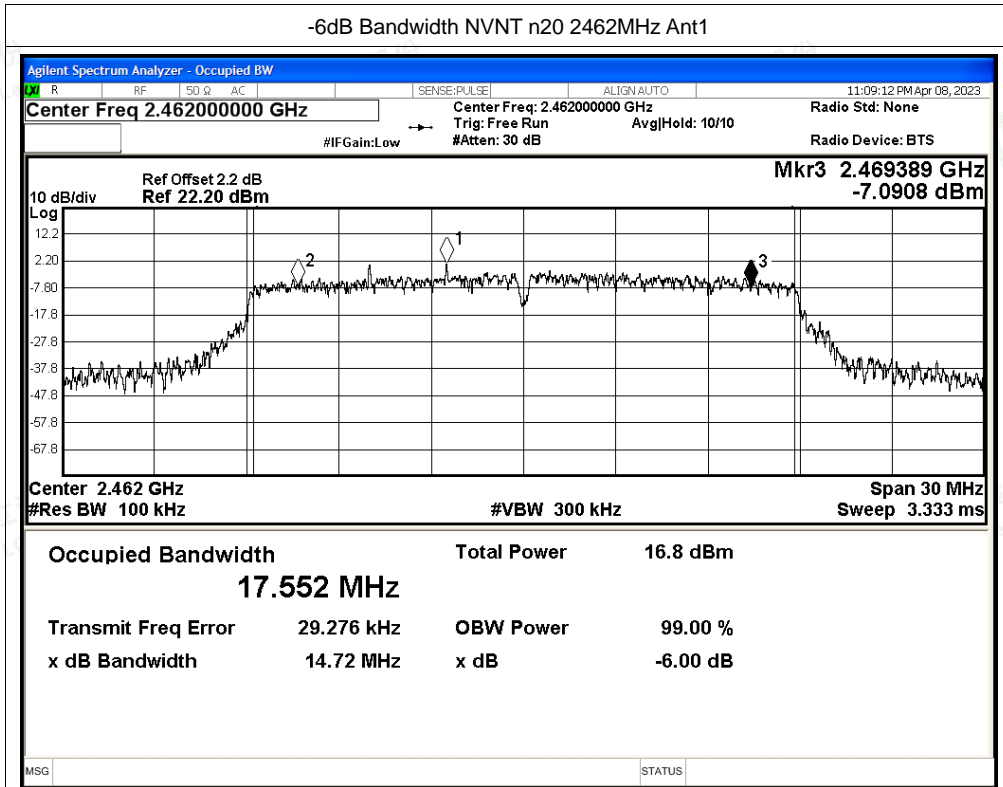


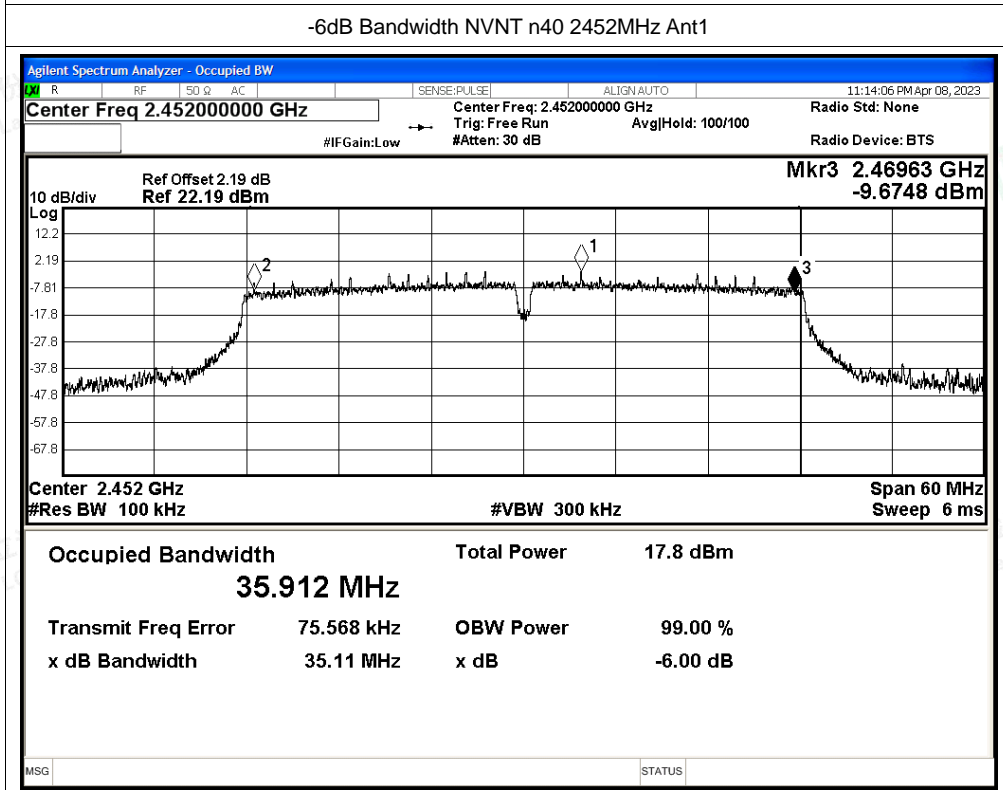
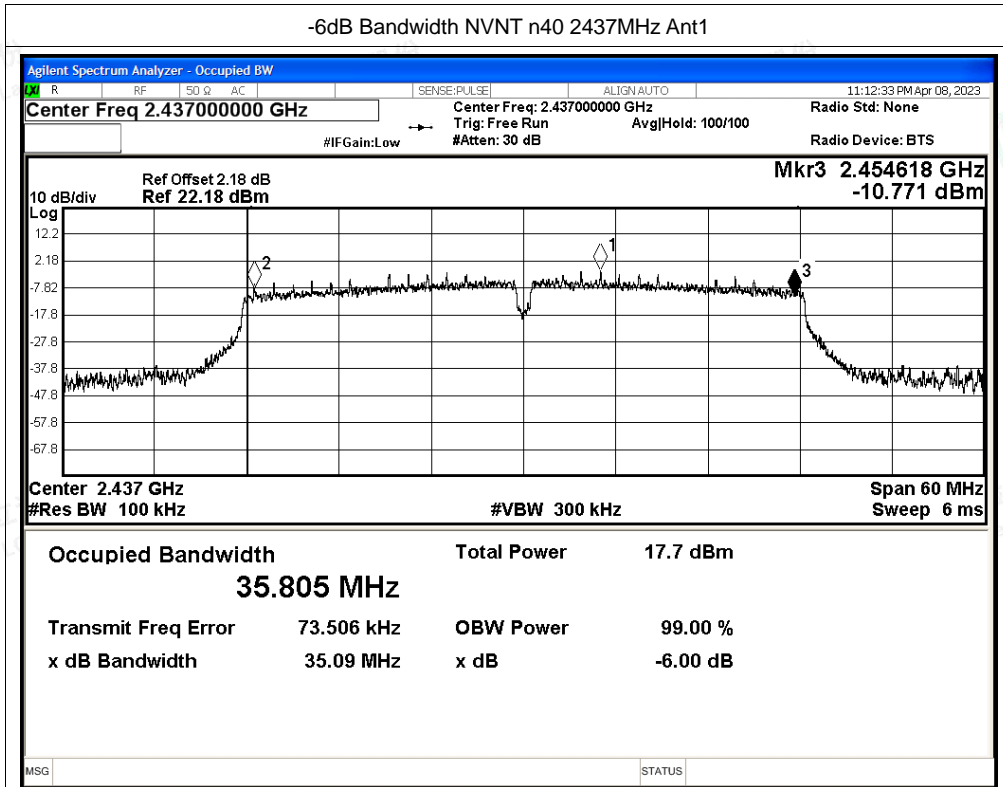
-6dB Bandwidth NVNT g 2412MHz Ant1













B.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	14.27	30	Pass
NVNT	b	2437	Ant1	14.71	30	Pass
NVNT	b	2462	Ant1	14.93	30	Pass
NVNT	g	2412	Ant1	15.08	30	Pass
NVNT	g	2437	Ant1	15.24	30	Pass
NVNT	g	2462	Ant1	15.4	30	Pass
NVNT	n20	2412	Ant1	15.01	30	Pass
NVNT	n20	2437	Ant1	15.09	30	Pass
NVNT	n20	2462	Ant1	17.11	30	Pass
NVNT	n40	2422	Ant1	15.93	30	Pass
NVNT	n40	2437	Ant1	16.14	30	Pass
NVNT	n40	2452	Ant1	16.23	30	Pass





B.3 Maximum Power Spectral Density Level

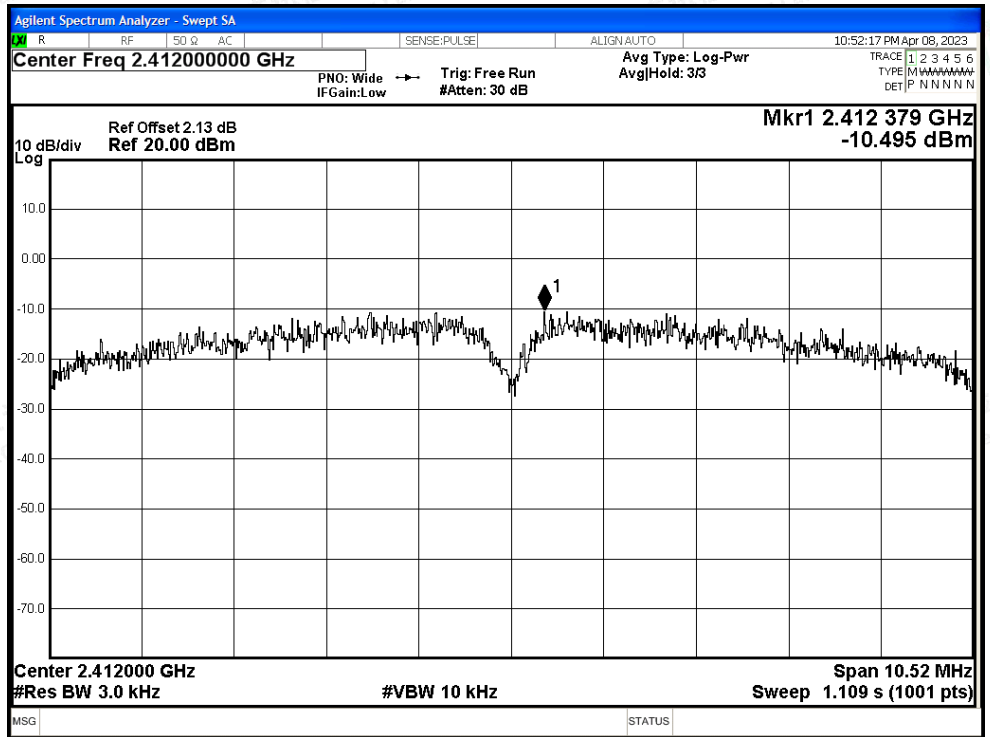
Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-10.5	8	Pass
NVNT	b	2437	Ant1	-8	8	Pass
NVNT	b	2462	Ant1	-9.39	8	Pass
NVNT	g	2412	Ant1	-12.44	8	Pass
NVNT	g	2437	Ant1	-11.78	8	Pass
NVNT	g	2462	Ant1	-11.65	8	Pass
NVNT	n20	2412	Ant1	-12.5	8	Pass
NVNT	n20	2437	Ant1	-12.14	8	Pass
NVNT	n20	2462	Ant1	-12.69	8	Pass
NVNT	n40	2422	Ant1	-16.56	8	Pass
NVNT	n40	2437	Ant1	-16.35	8	Pass
NVNT	n40	2452	Ant1	-15.76	8	Pass



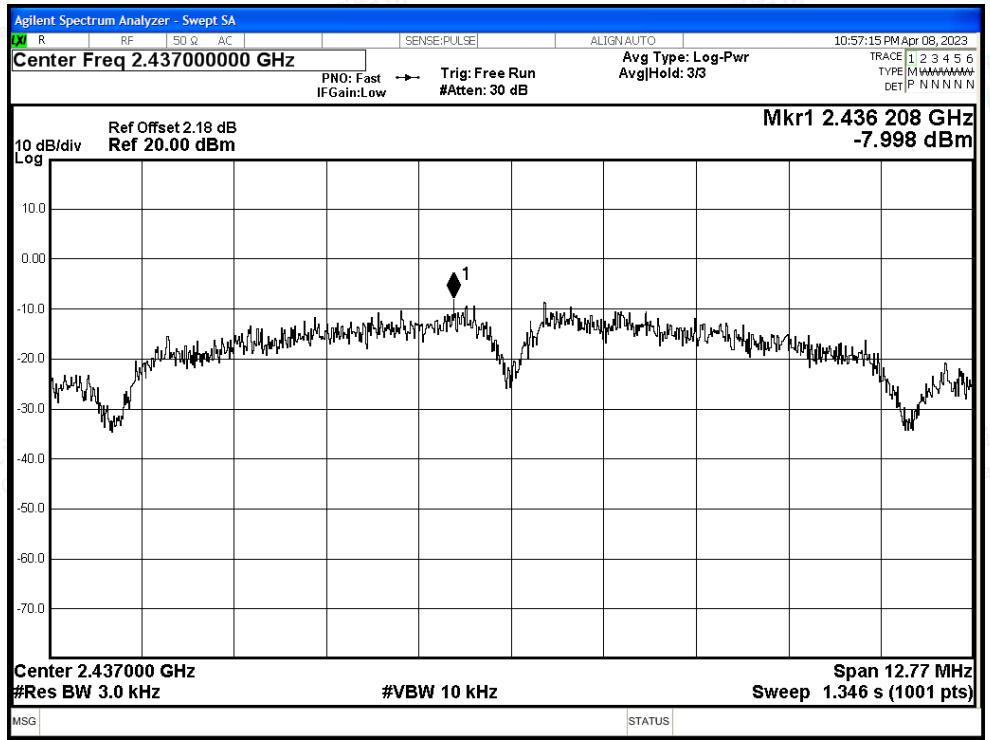


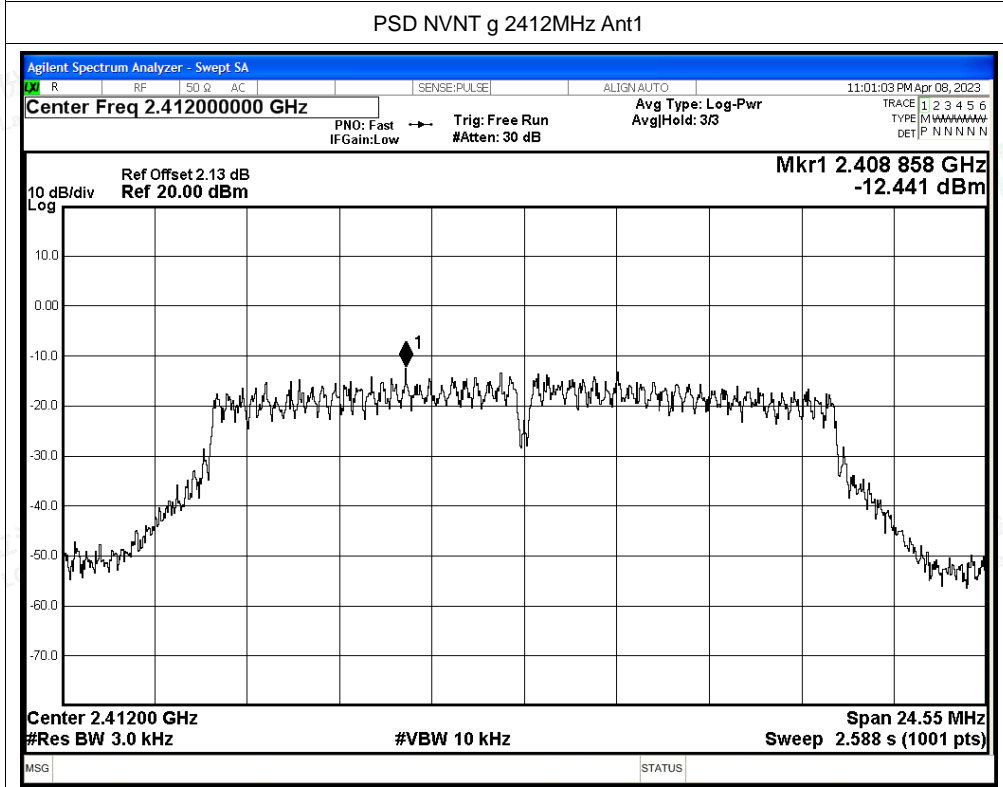
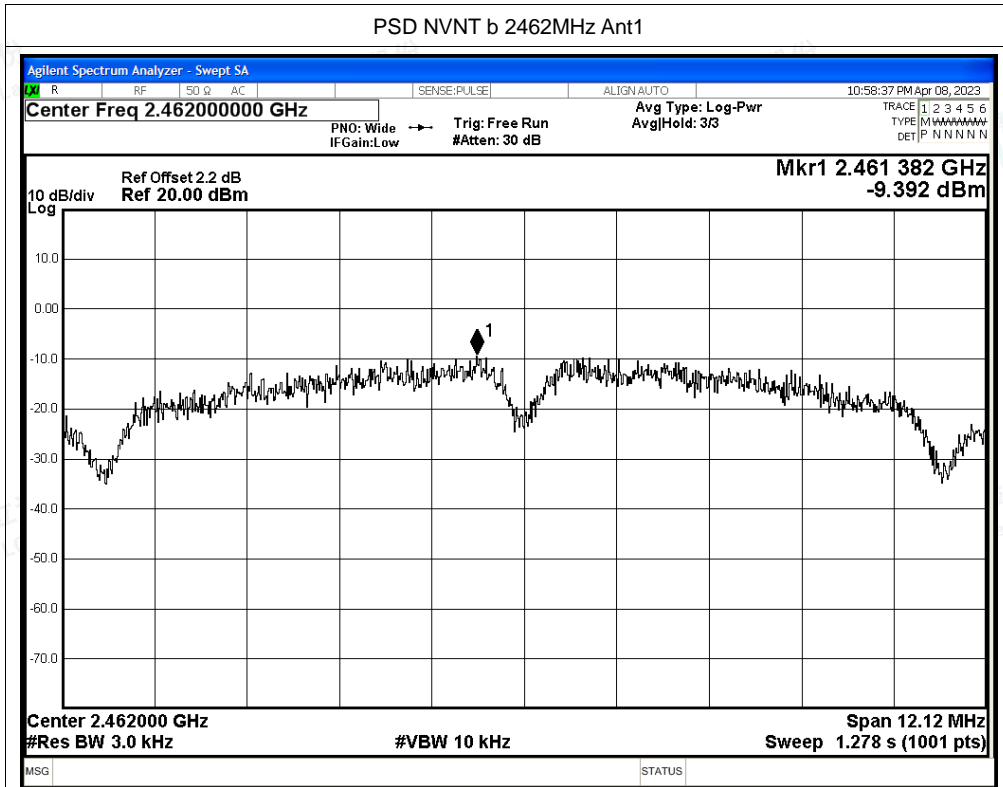
Test Graphs

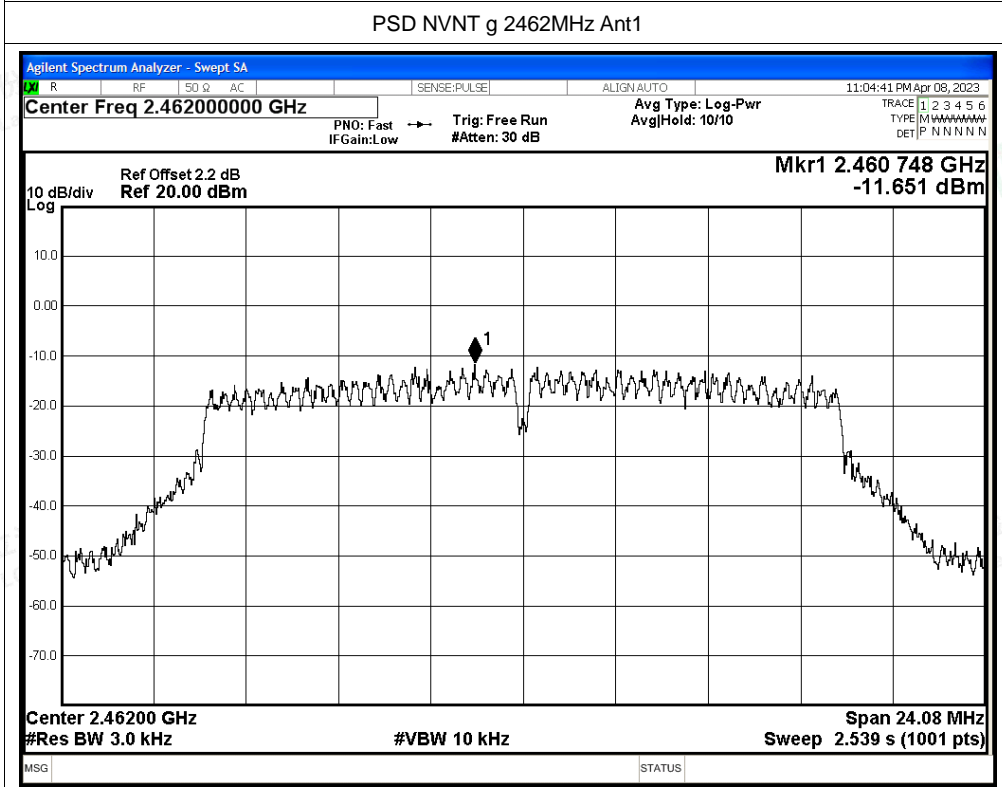
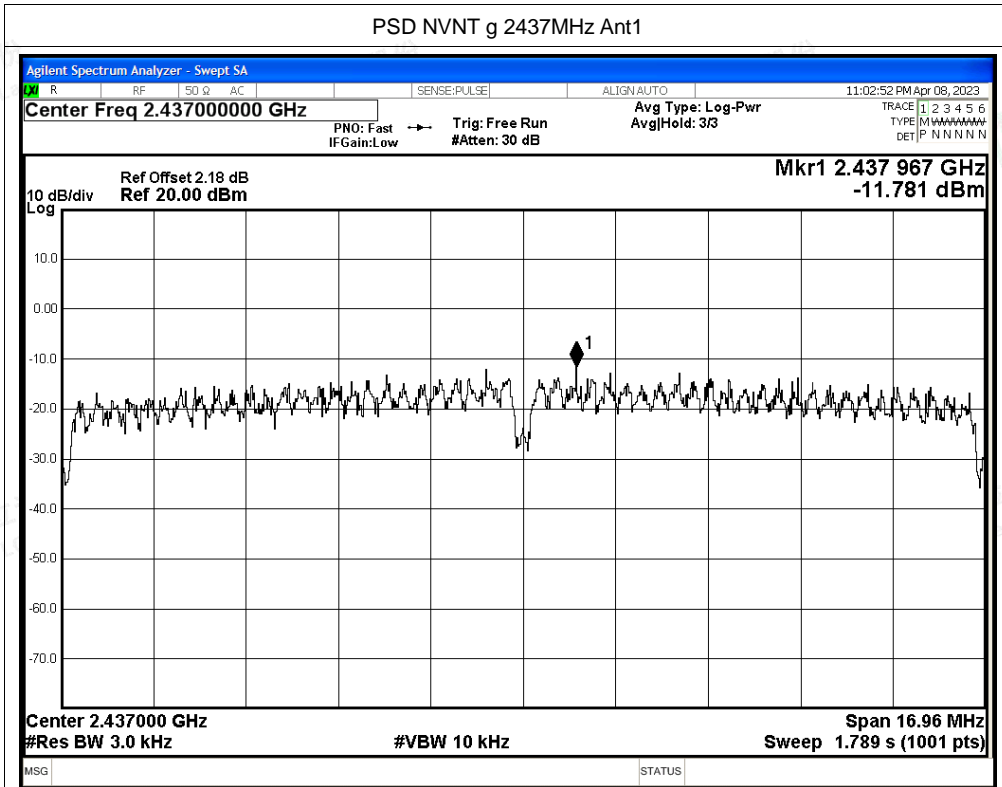
PSD NVNT b 2412MHz Ant1

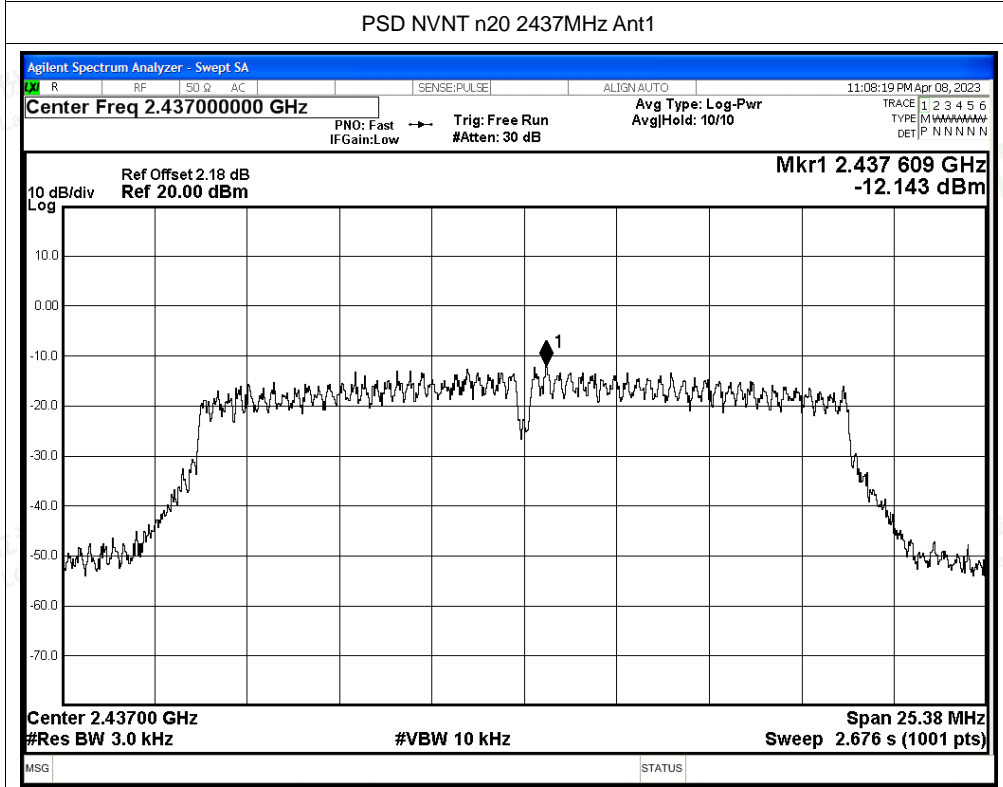
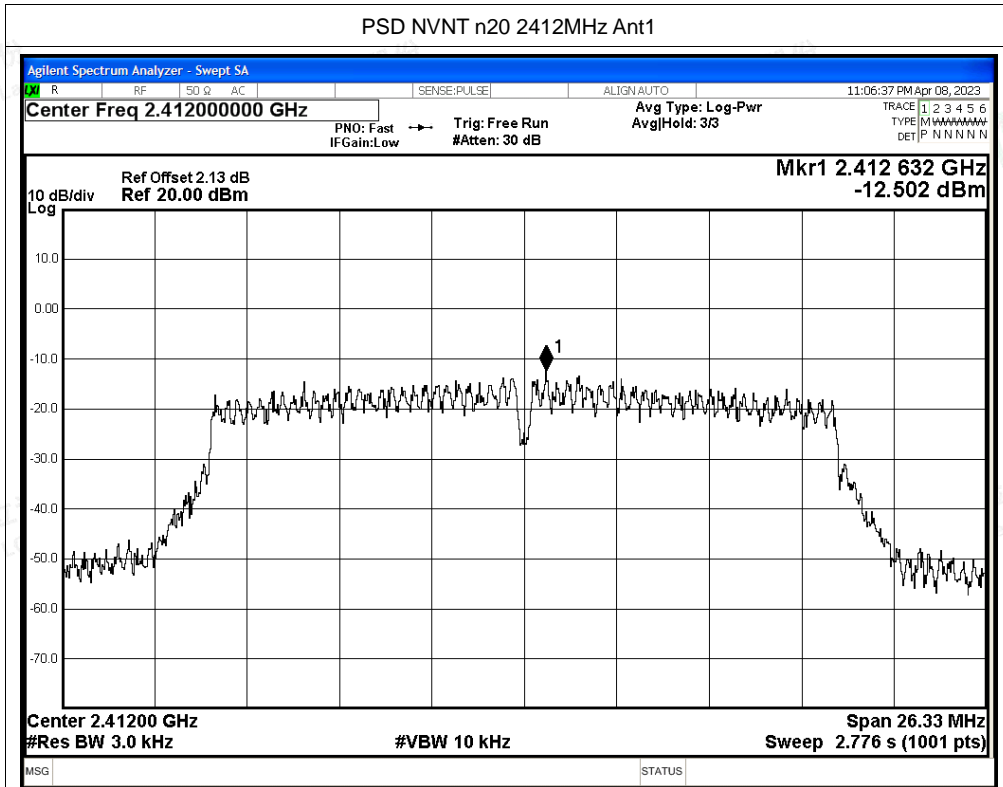


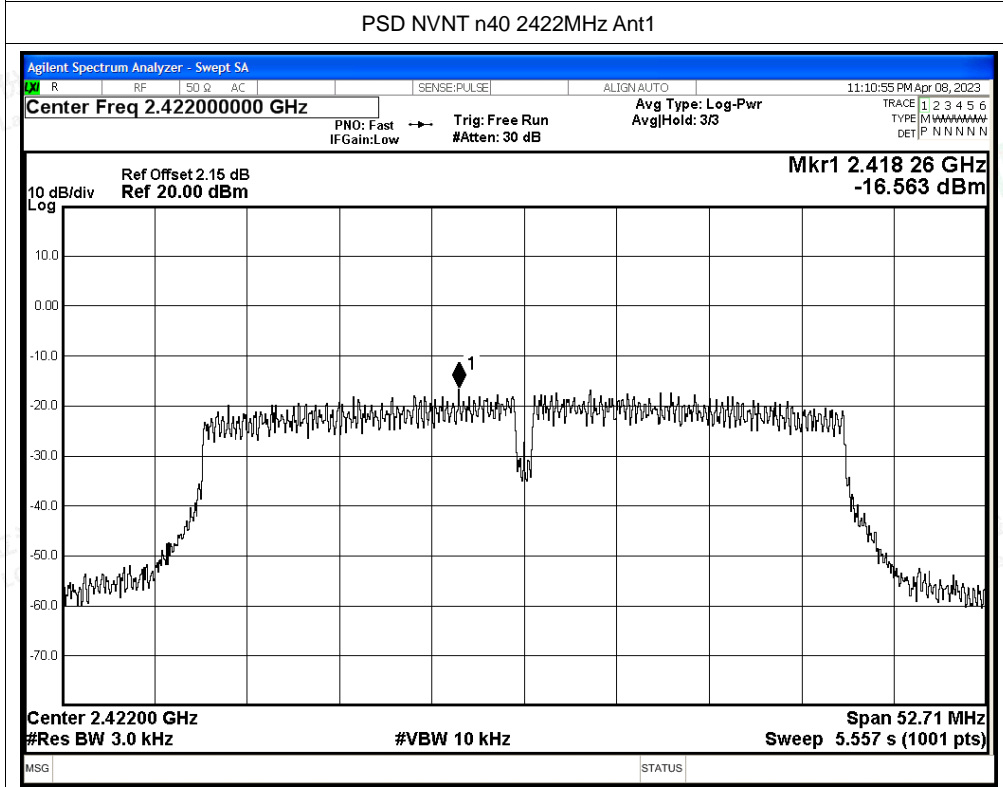
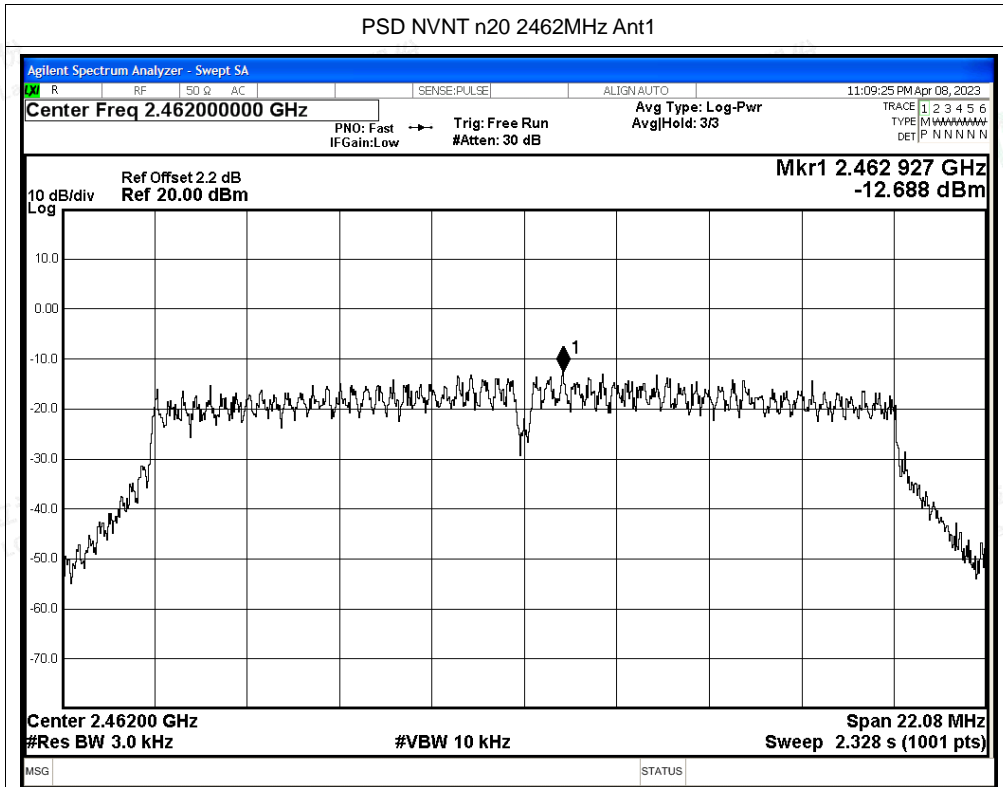
PSD NVNT b 2437MHz Ant1

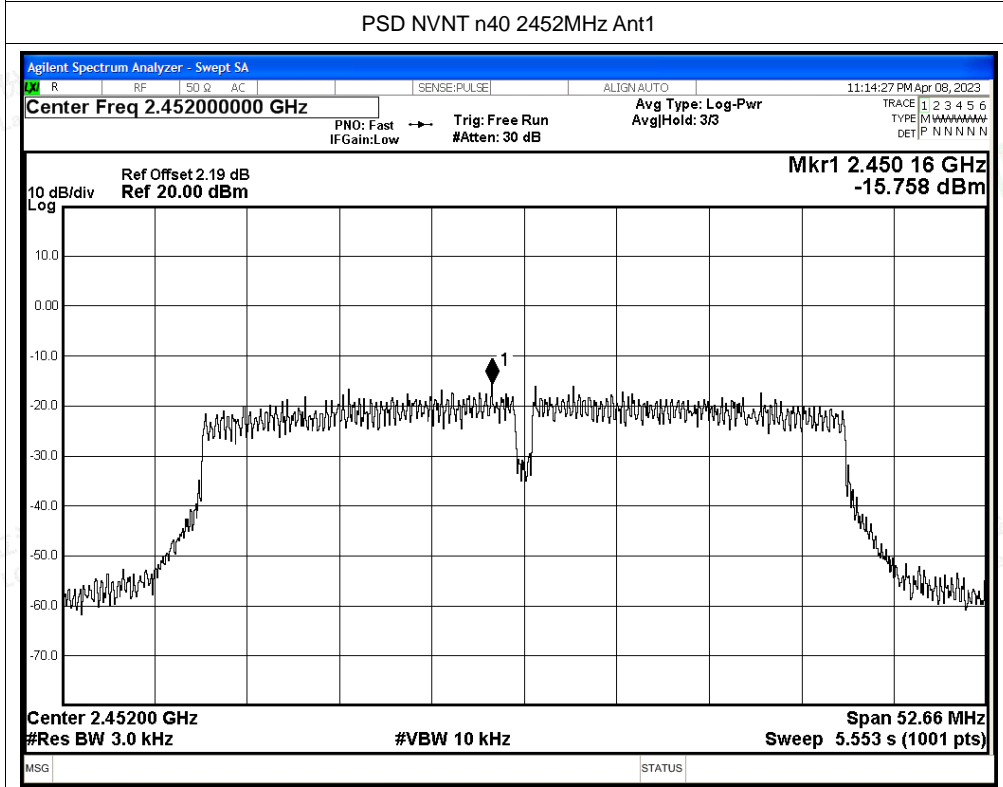
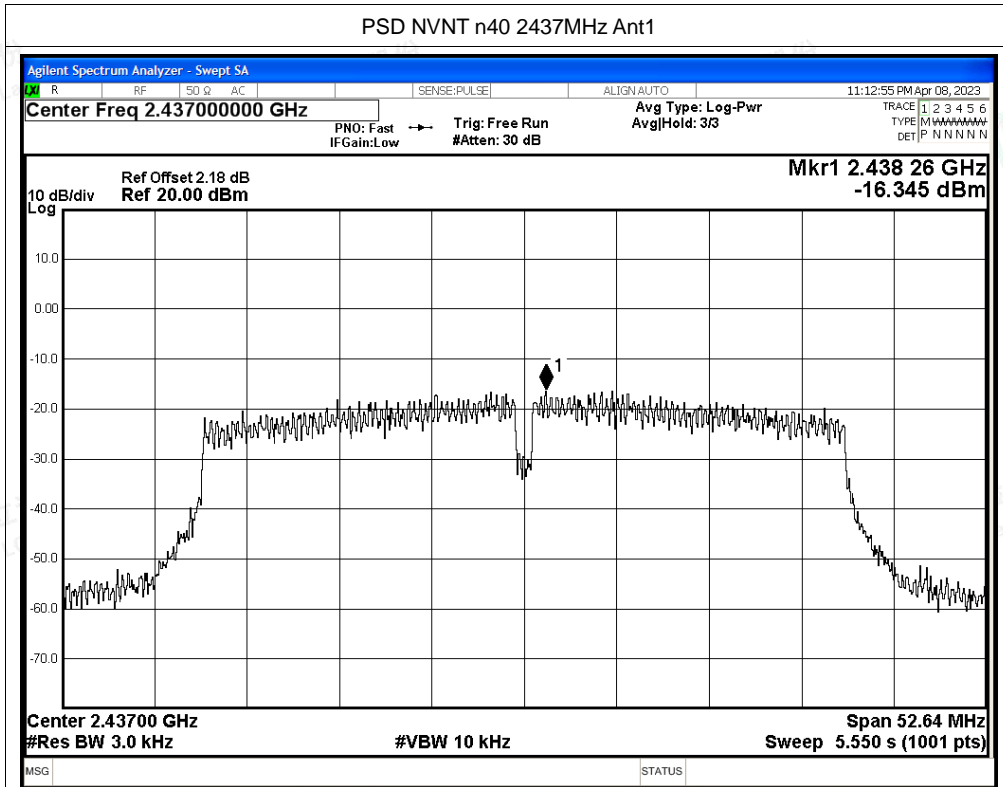














B.4 Band Edge

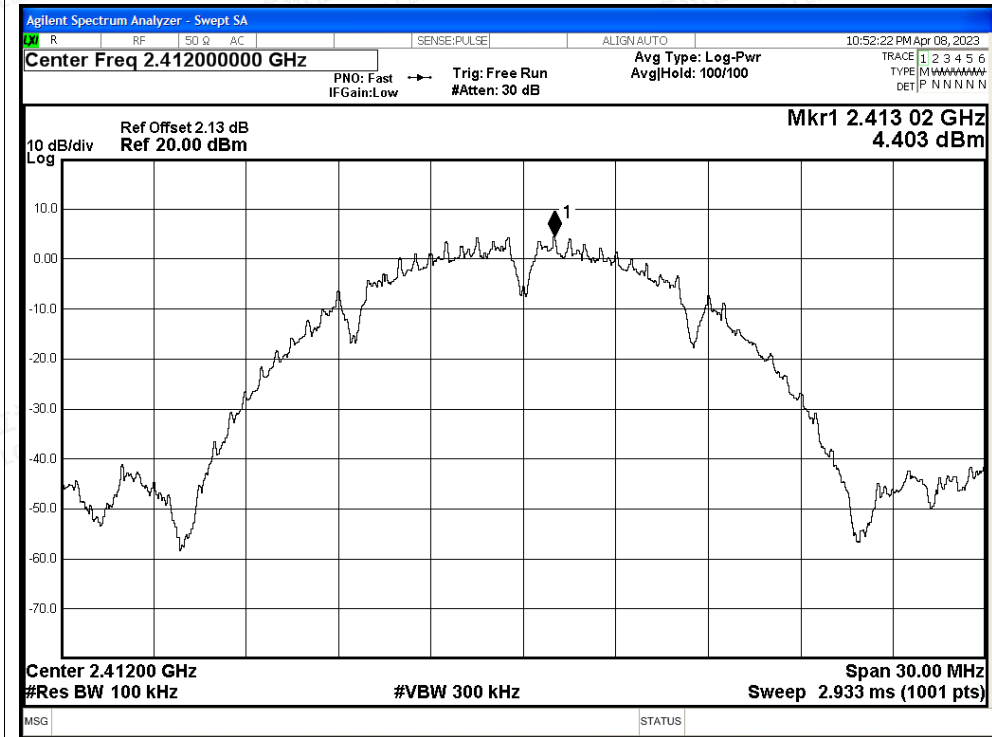
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-46.52	-20	Pass
NVNT	b	2462	Ant1	-60.09	-20	Pass
NVNT	g	2412	Ant1	-35.37	-20	Pass
NVNT	g	2462	Ant1	-51.49	-20	Pass
NVNT	n20	2412	Ant1	-35.4	-20	Pass
NVNT	n20	2462	Ant1	-51.42	-20	Pass
NVNT	n40	2422	Ant1	-34.26	-20	Pass
NVNT	n40	2452	Ant1	-37.43	-20	Pass



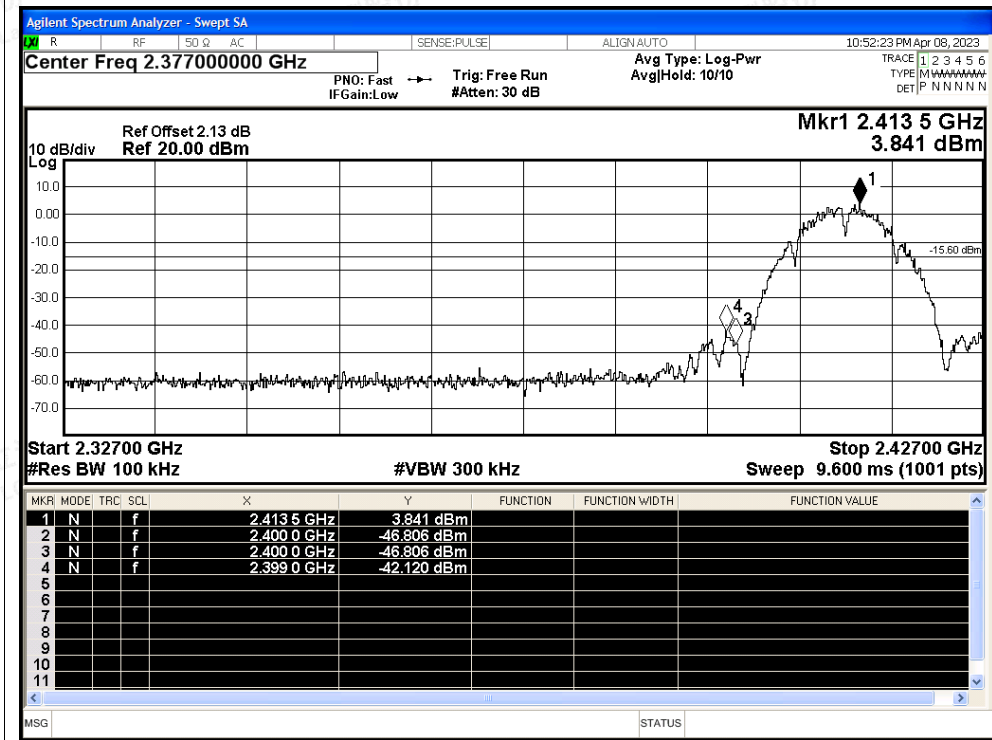


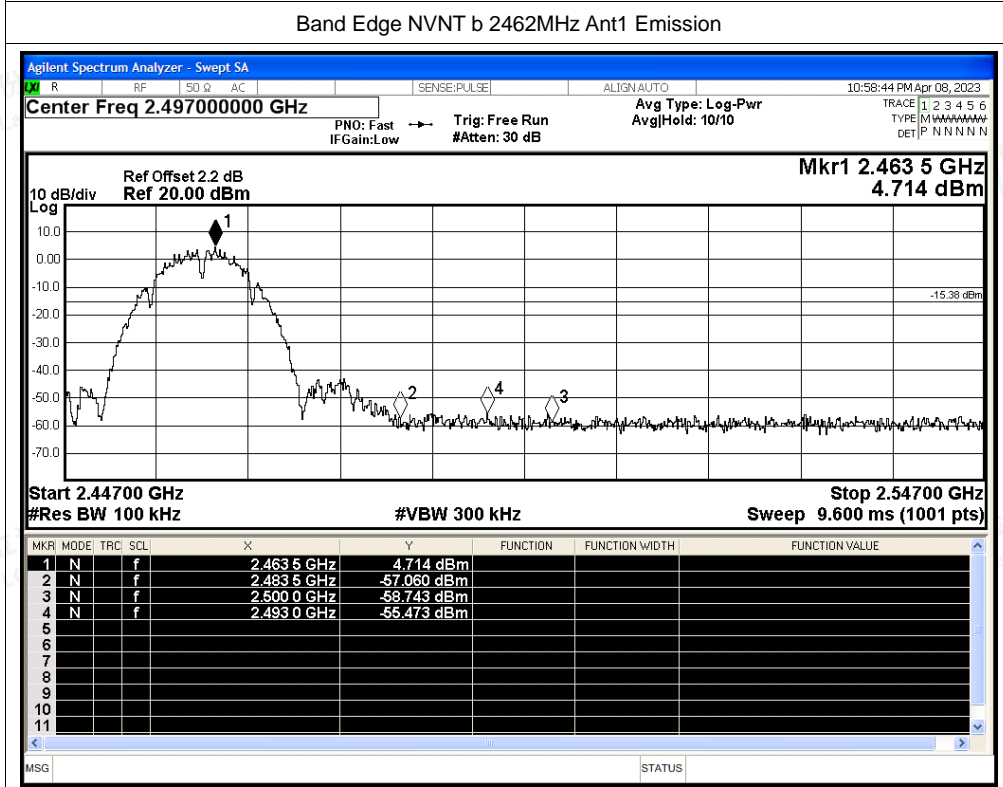
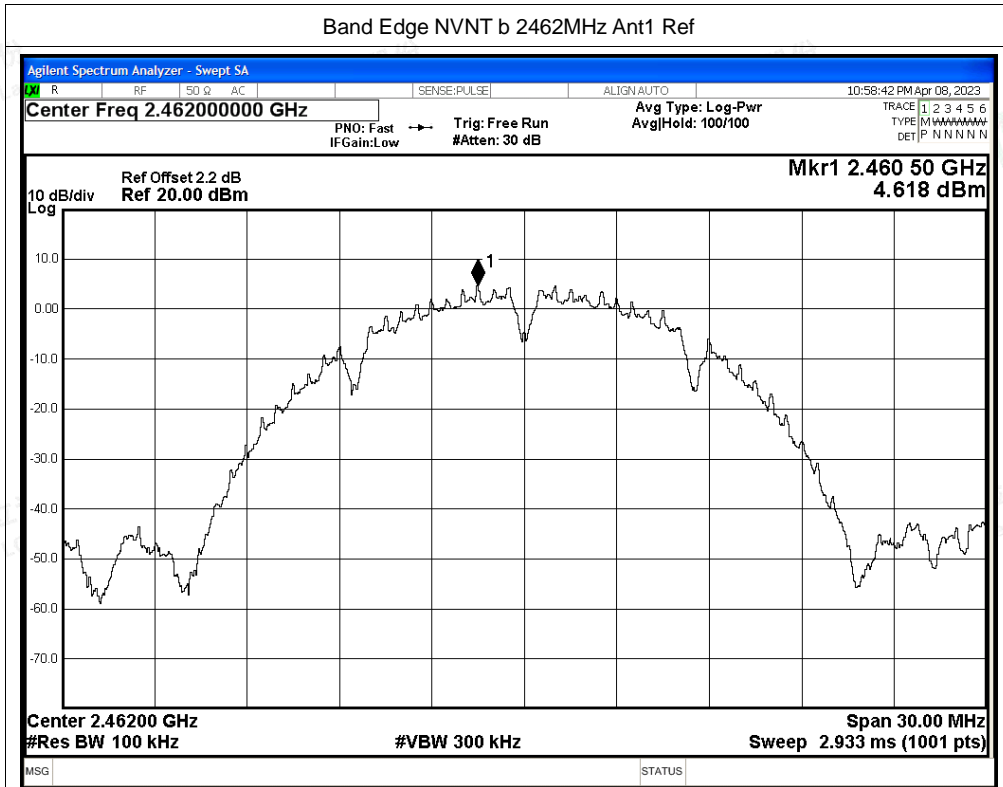
Test Graphs

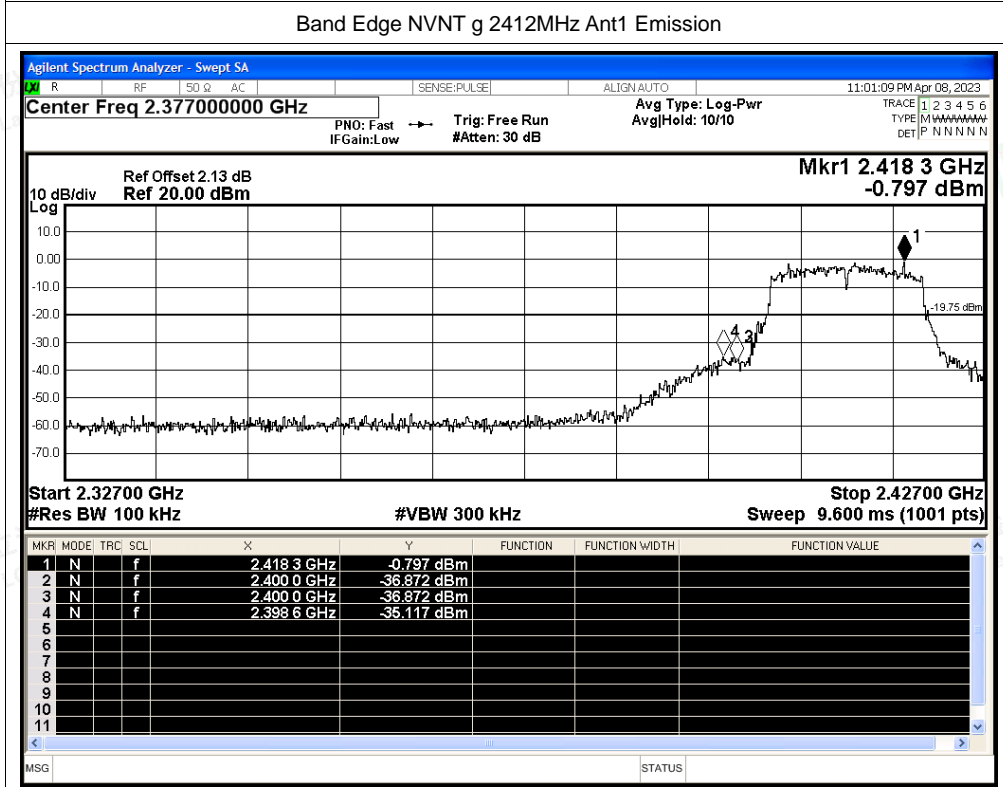
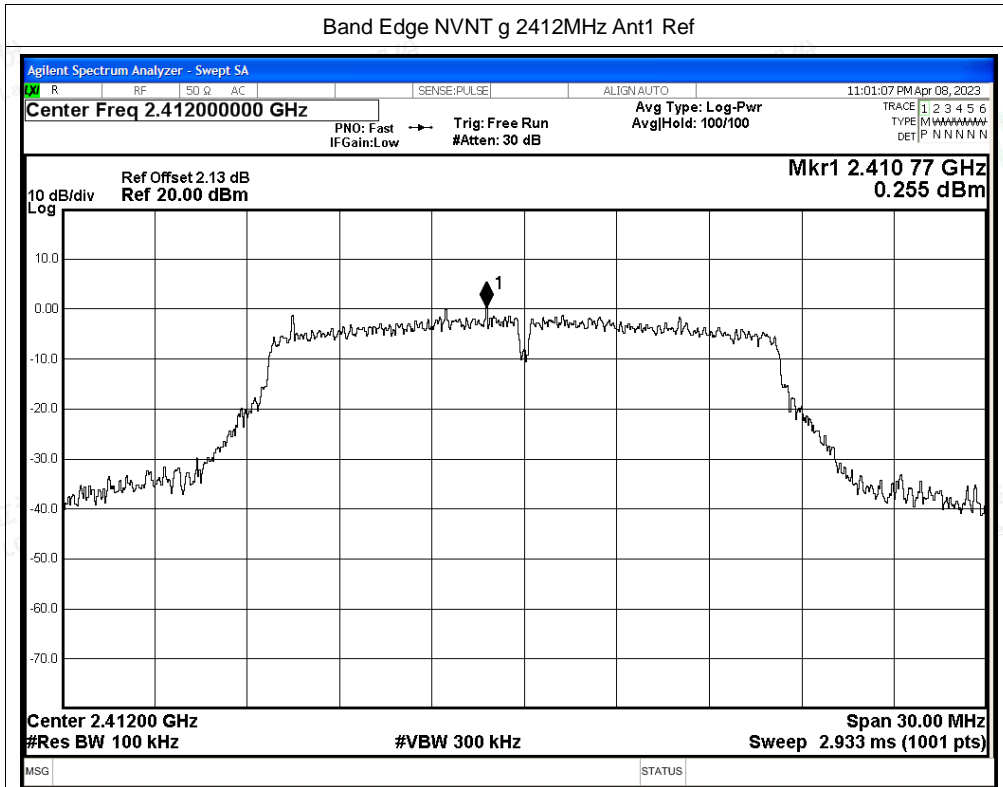
Band Edge NVNT b 2412MHz Ant1 Ref



Band Edge NVNT b 2412MHz Ant1 Emission

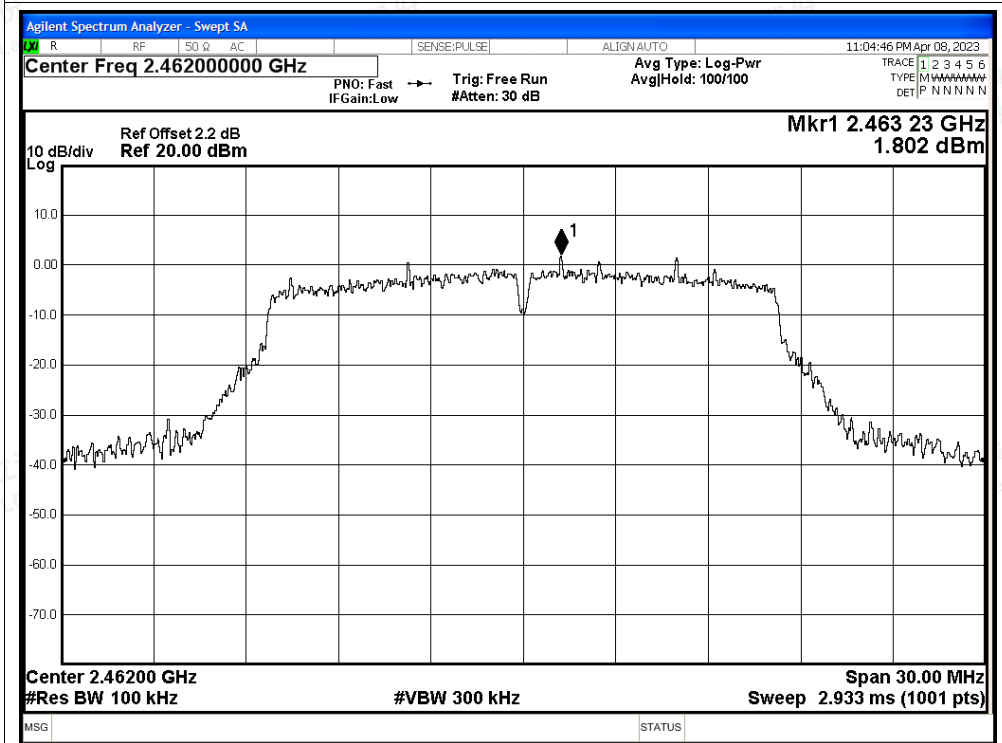




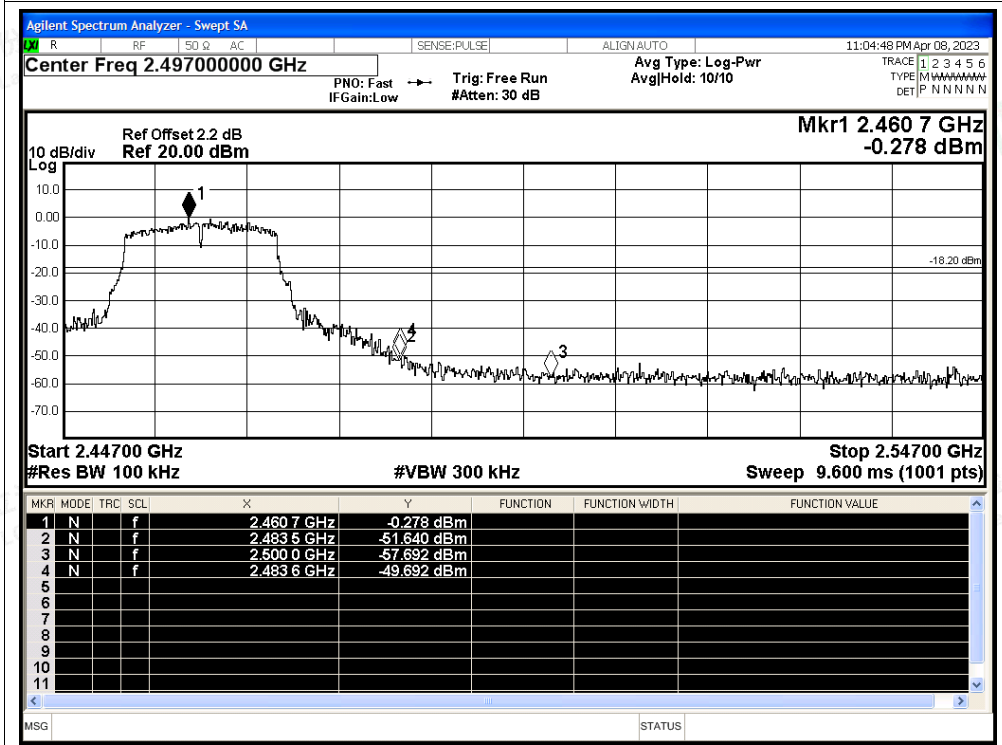


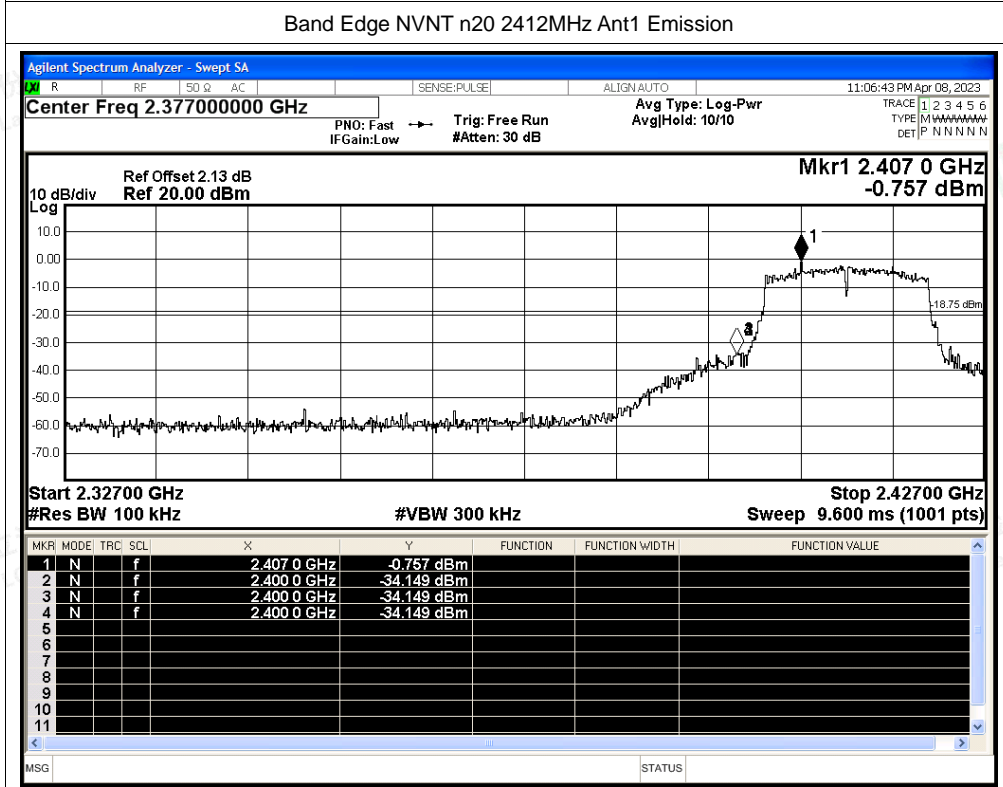
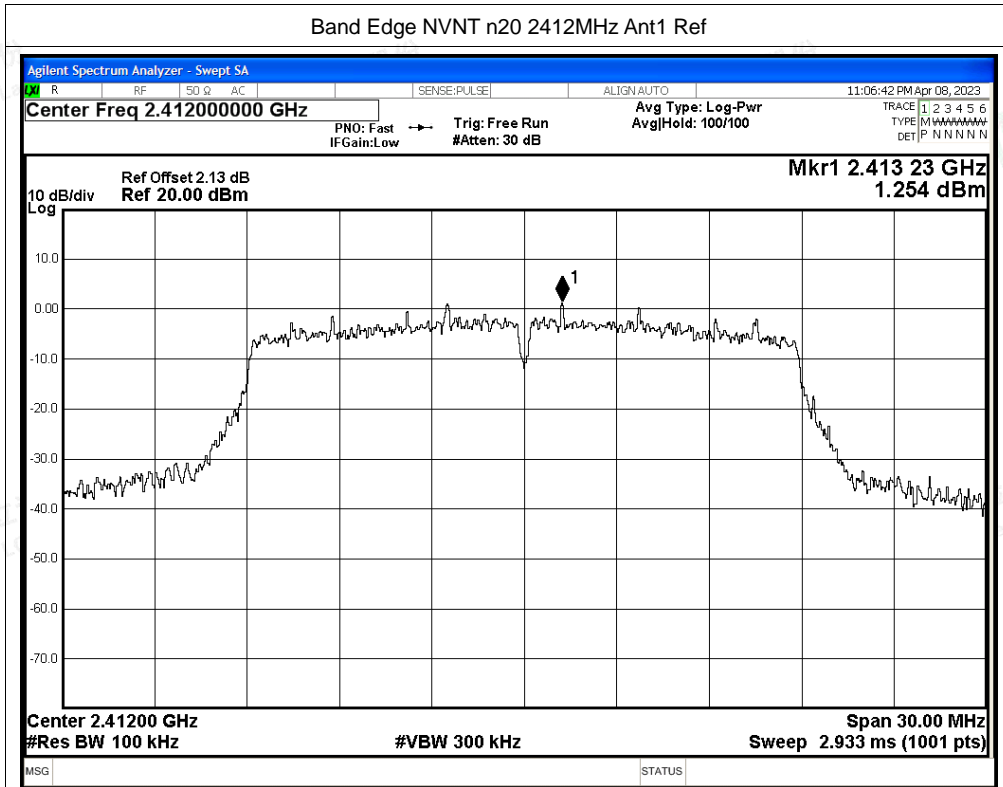


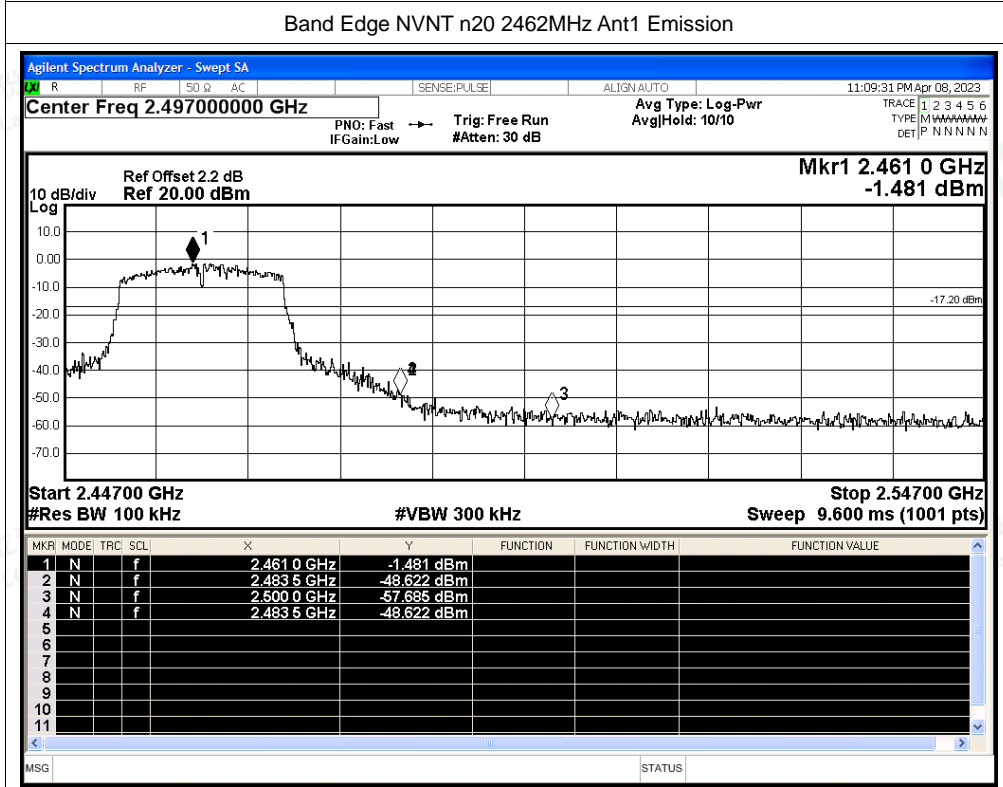
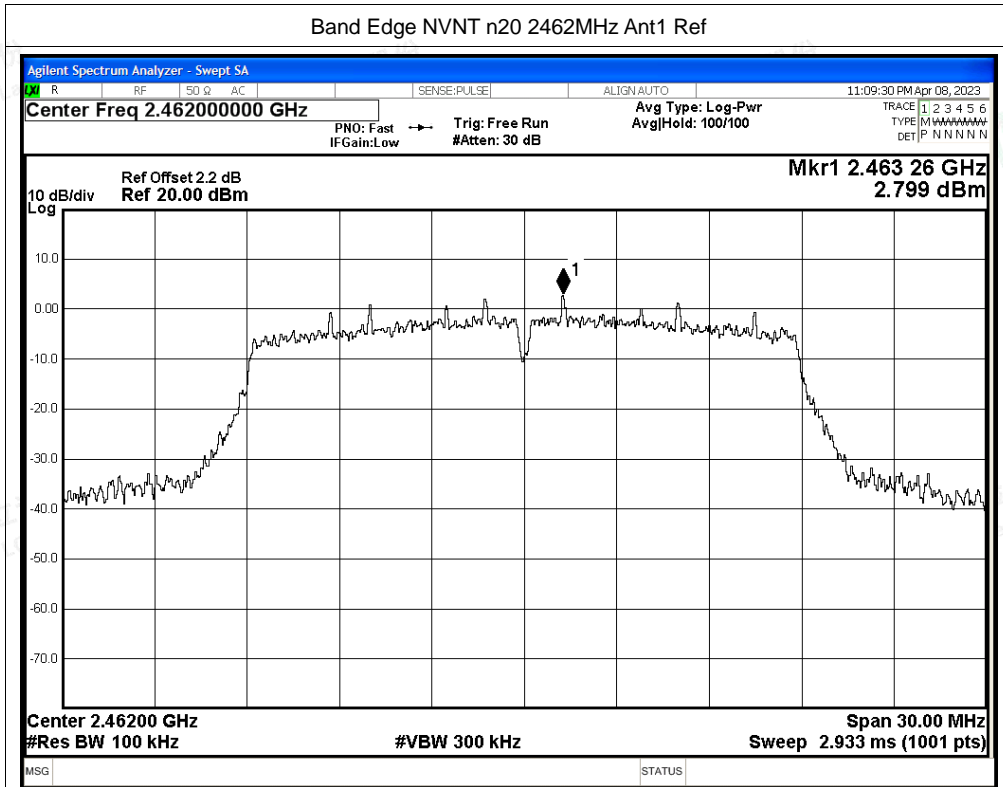
Band Edge NVNT g 2462MHz Ant1 Ref

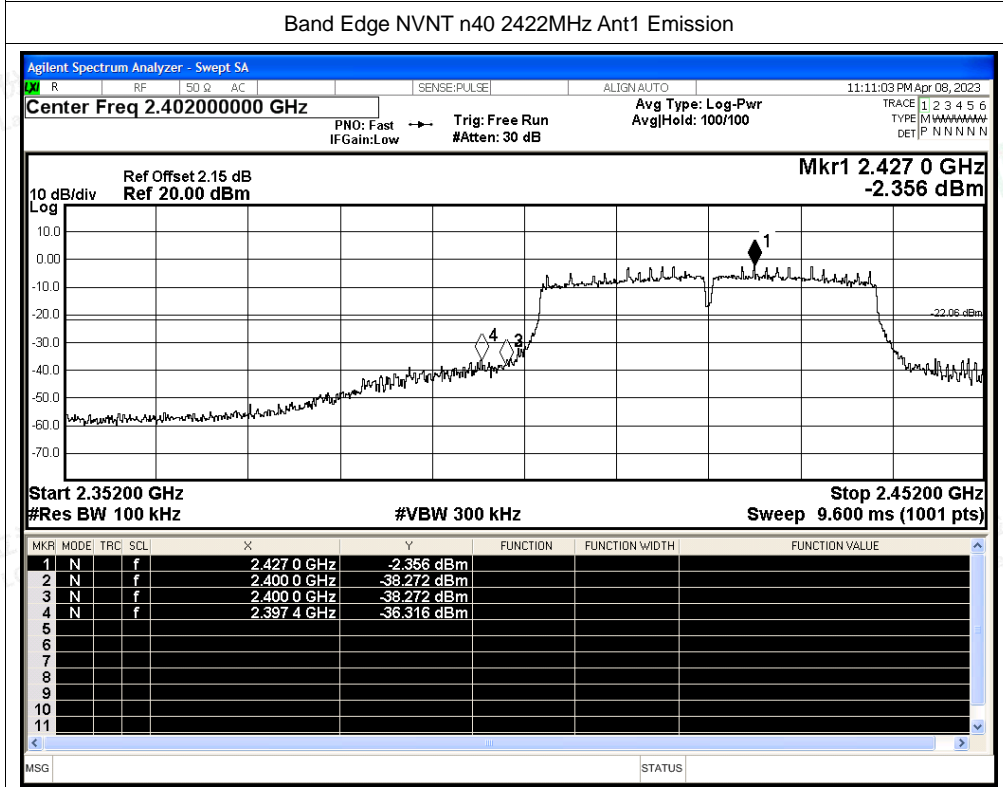
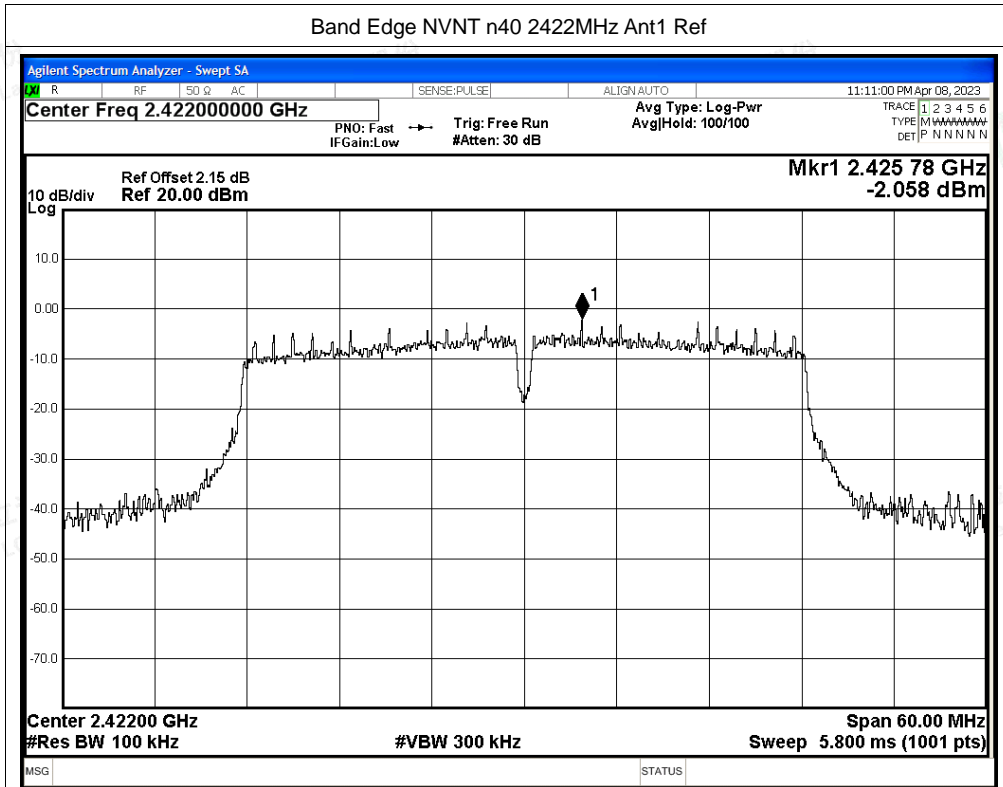


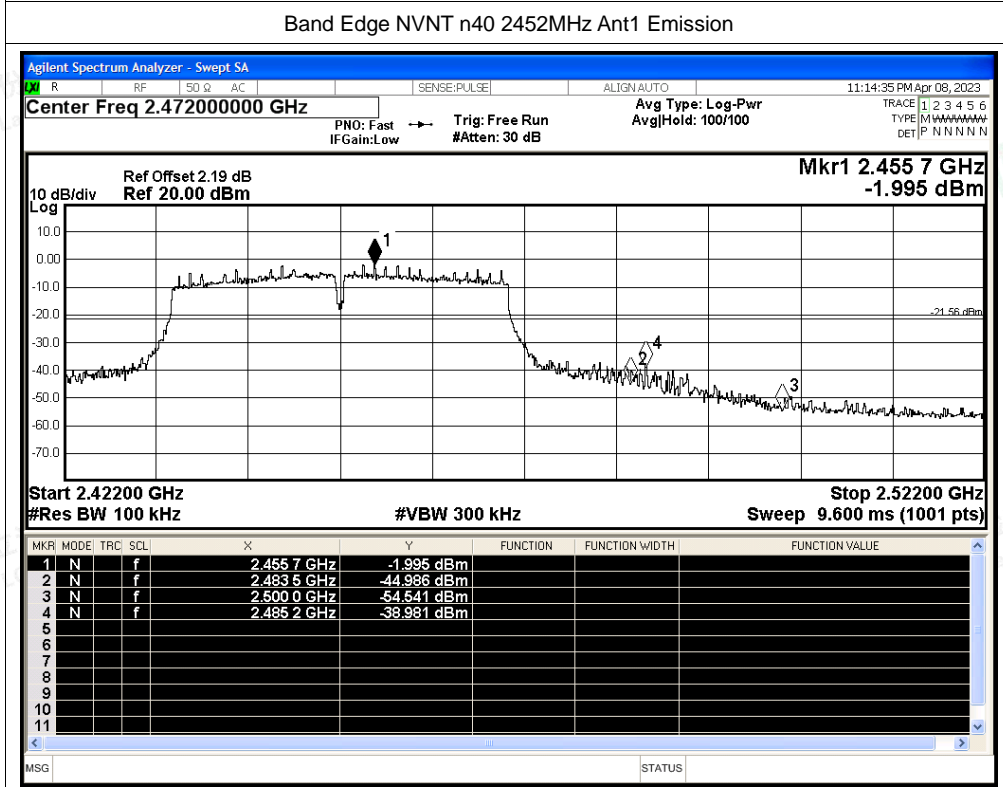
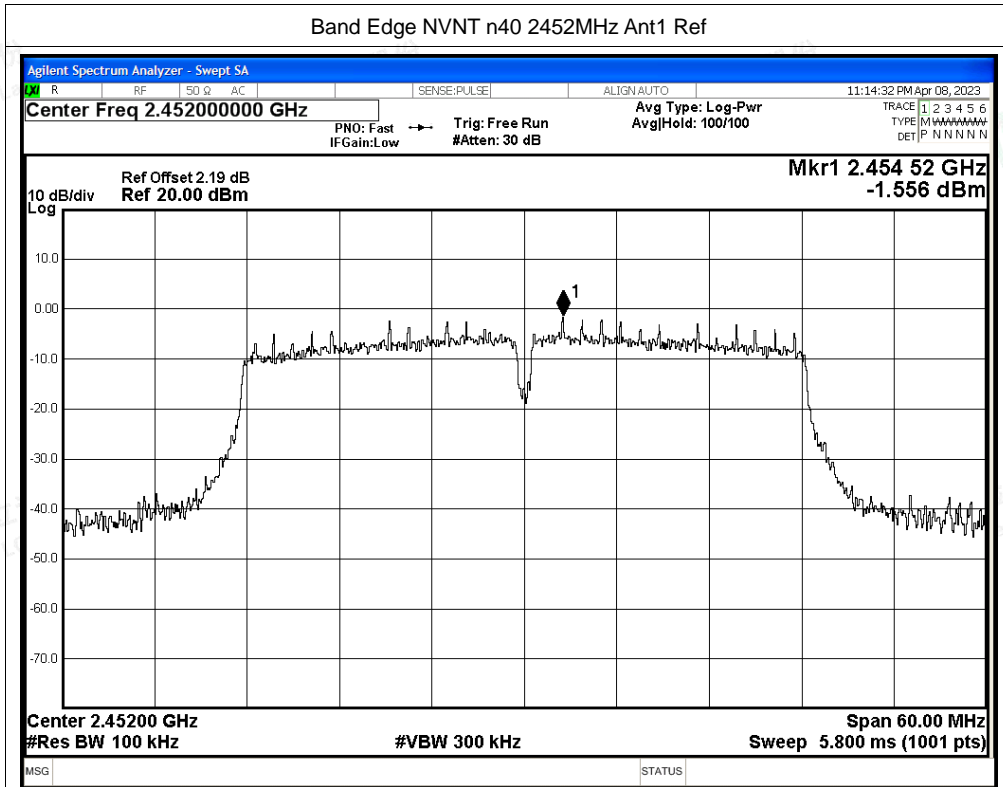
Band Edge NVNT g 2462MHz Ant1 Emission













B.5 Conducted RF Spurious Emission

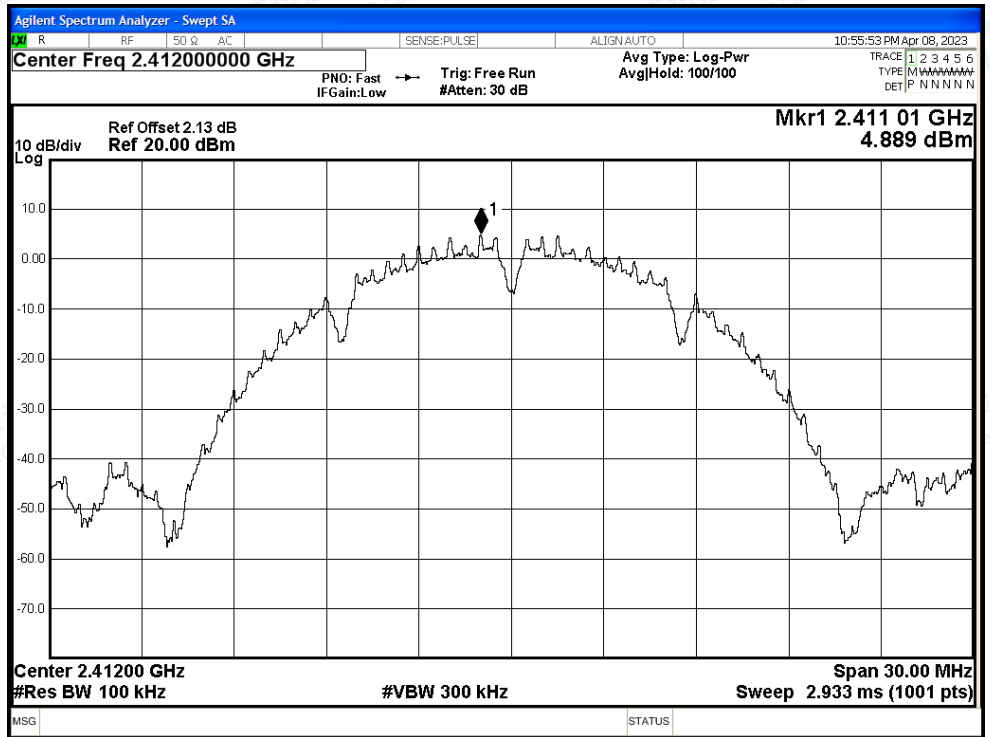
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-50.15	-20	Pass
NVNT	b	2437	Ant1	-49.39	-20	Pass
NVNT	b	2462	Ant1	-51.1	-20	Pass
NVNT	g	2412	Ant1	-46.37	-20	Pass
NVNT	g	2437	Ant1	-46.93	-20	Pass
NVNT	g	2462	Ant1	-47.48	-20	Pass
NVNT	n20	2412	Ant1	-46.37	-20	Pass
NVNT	n20	2437	Ant1	-46.74	-20	Pass
NVNT	n20	2462	Ant1	-47.64	-20	Pass
NVNT	n40	2422	Ant1	-43.33	-20	Pass
NVNT	n40	2437	Ant1	-44.37	-20	Pass
NVNT	n40	2452	Ant1	-43.02	-20	Pass



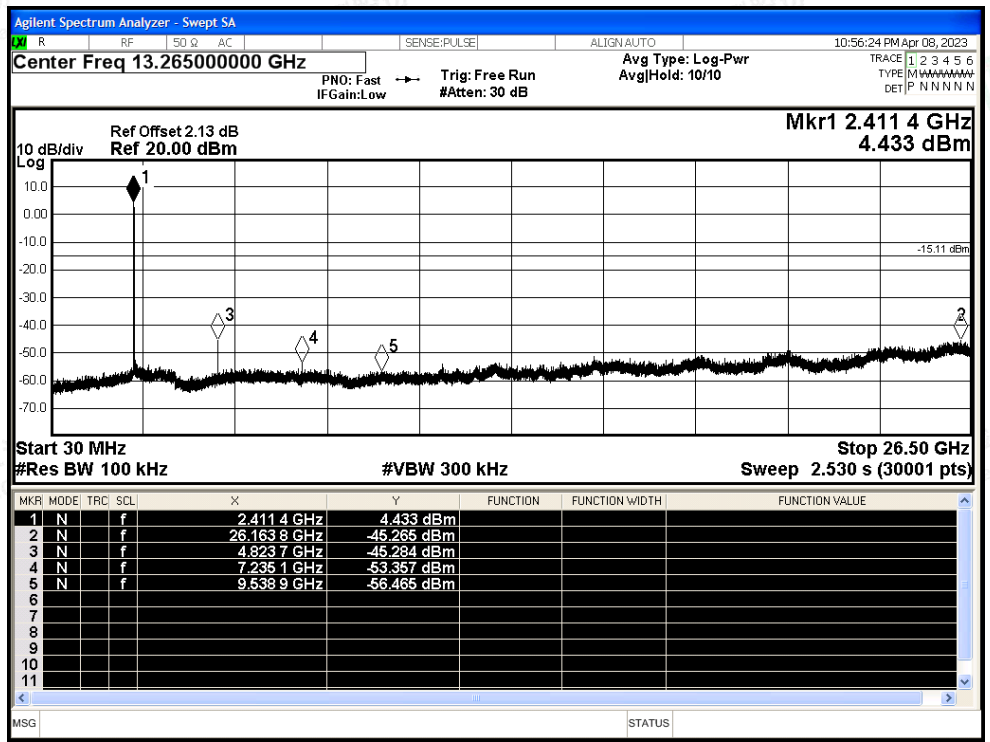


Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref

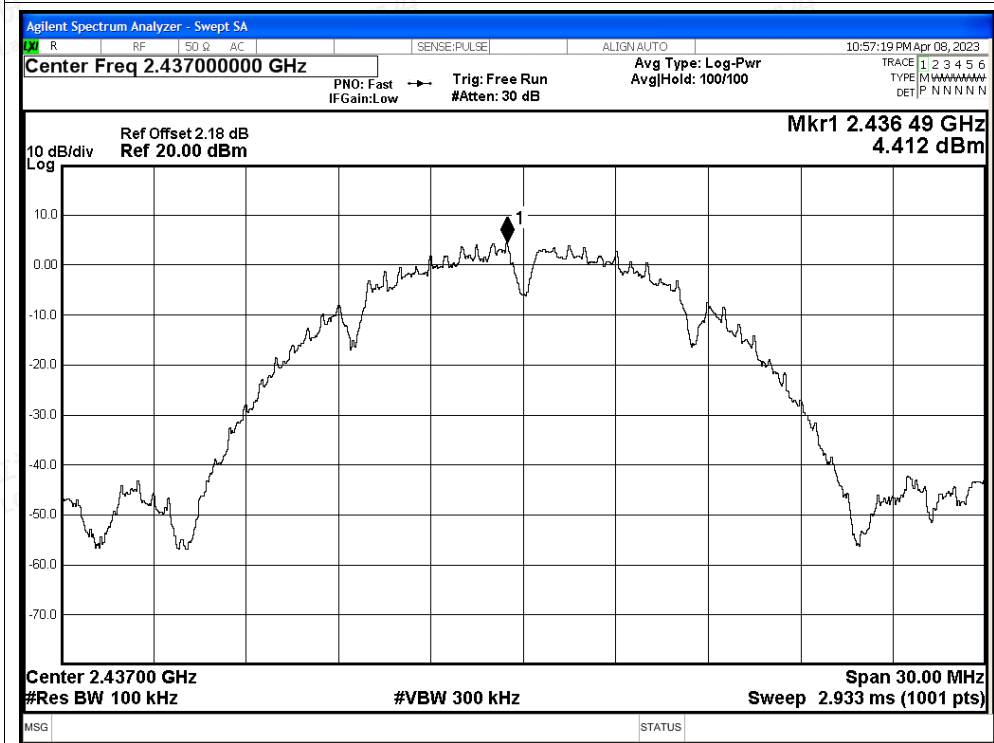


Tx. Spurious NVNT b 2412MHz Ant1 Emission

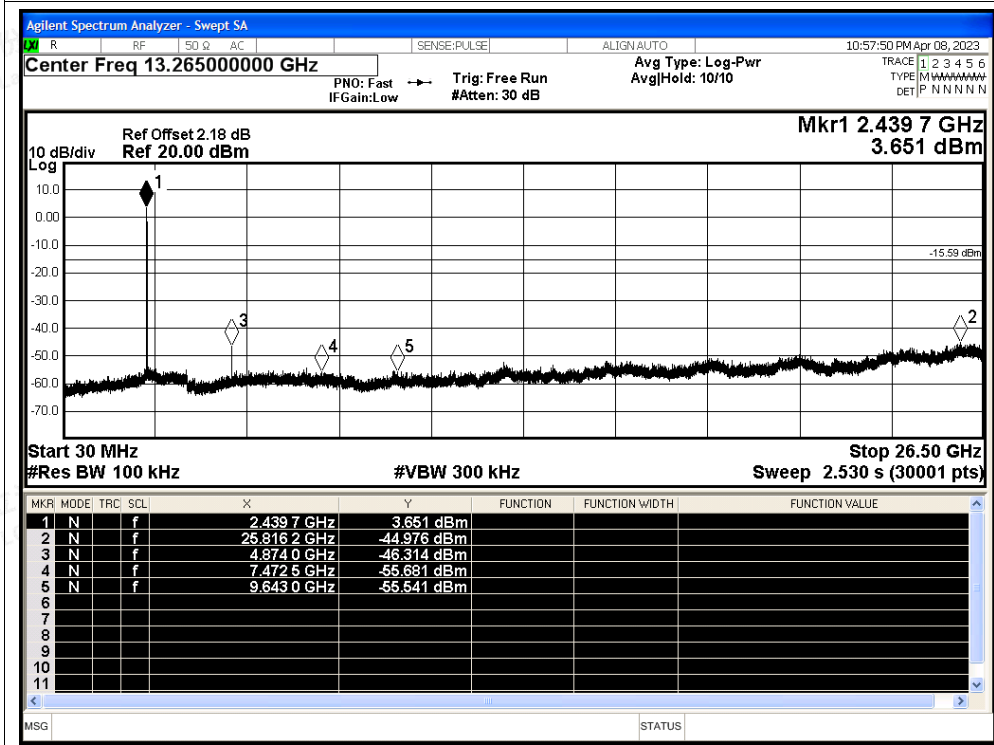




Tx. Spurious NVNT b 2437MHz Ant1 Ref

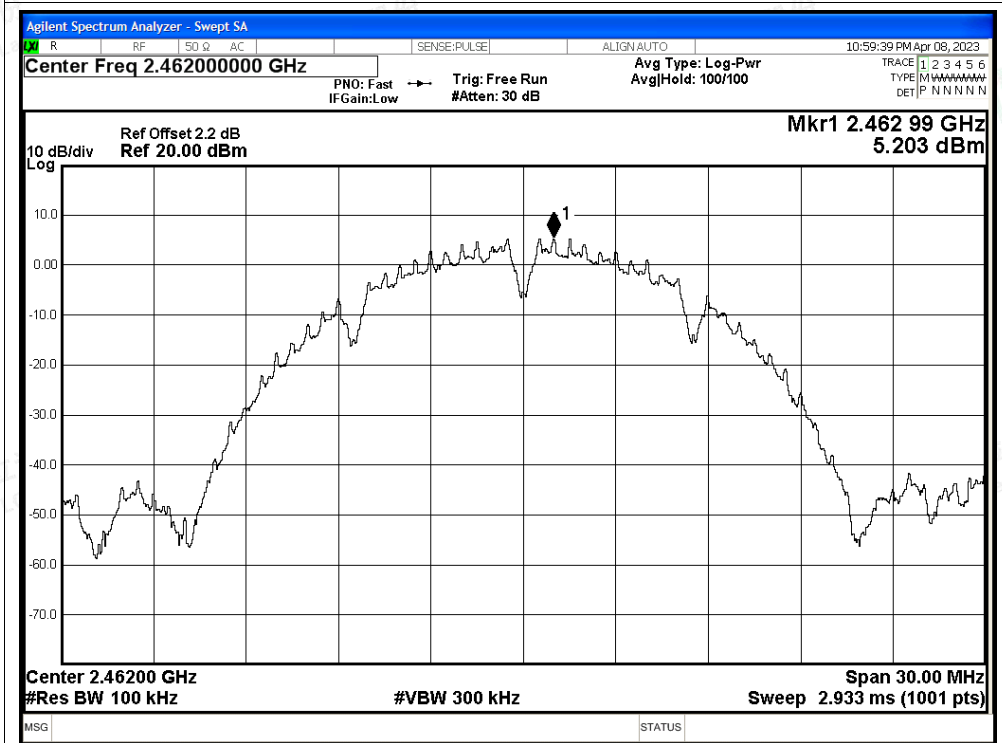


Tx. Spurious NVNT b 2437MHz Ant1 Emission

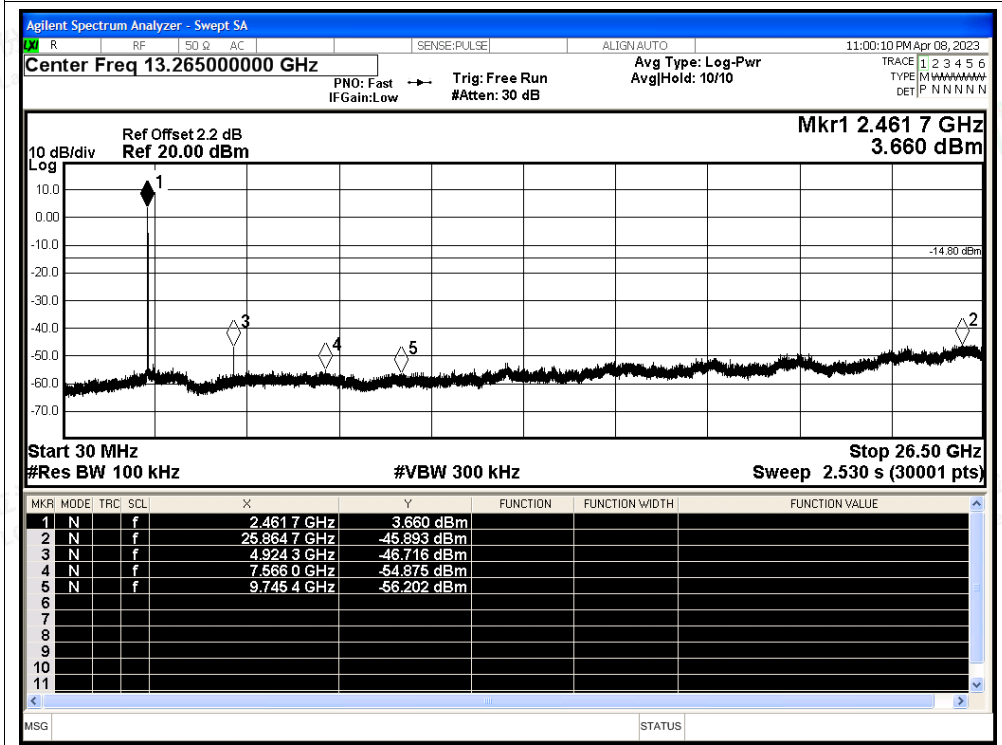




Tx. Spurious NVNT b 2462MHz Ant1 Ref

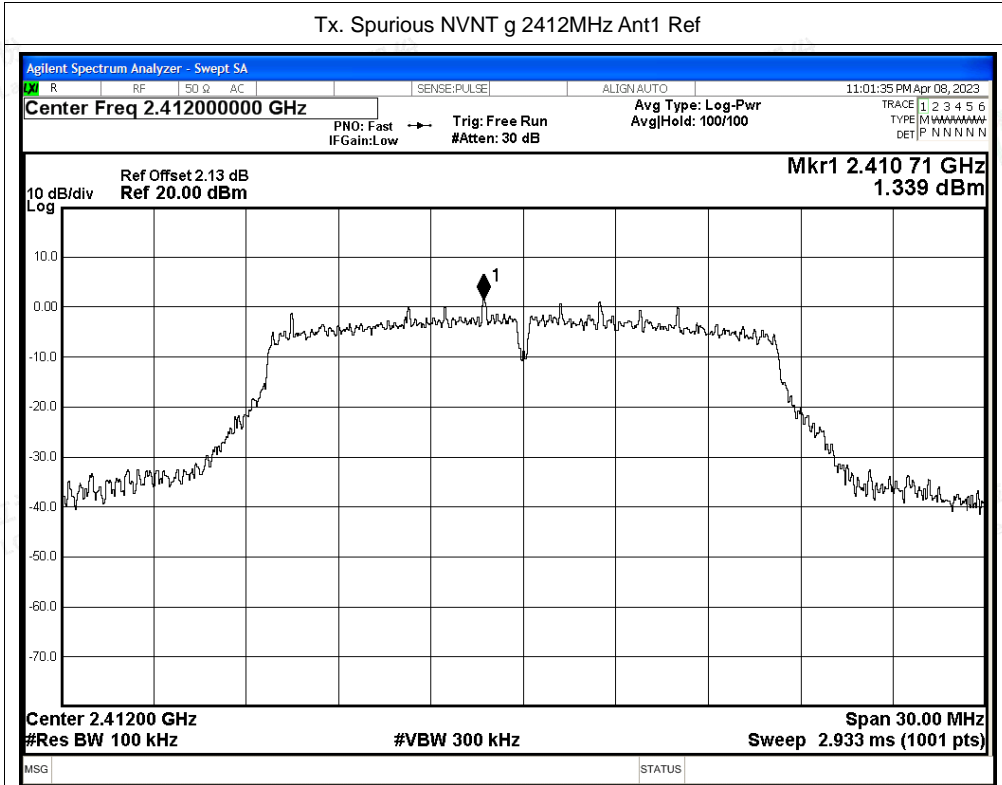


Tx. Spurious NVNT b 2462MHz Ant1 Emission





Tx. Spurious NVNT g 2412MHz Ant1 Ref



Tx. Spurious NVNT g 2412MHz Ant1 Emission

