



Appendix C

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Kids Smartwatch

Test Model: Kidzi

Environmental Conditions

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

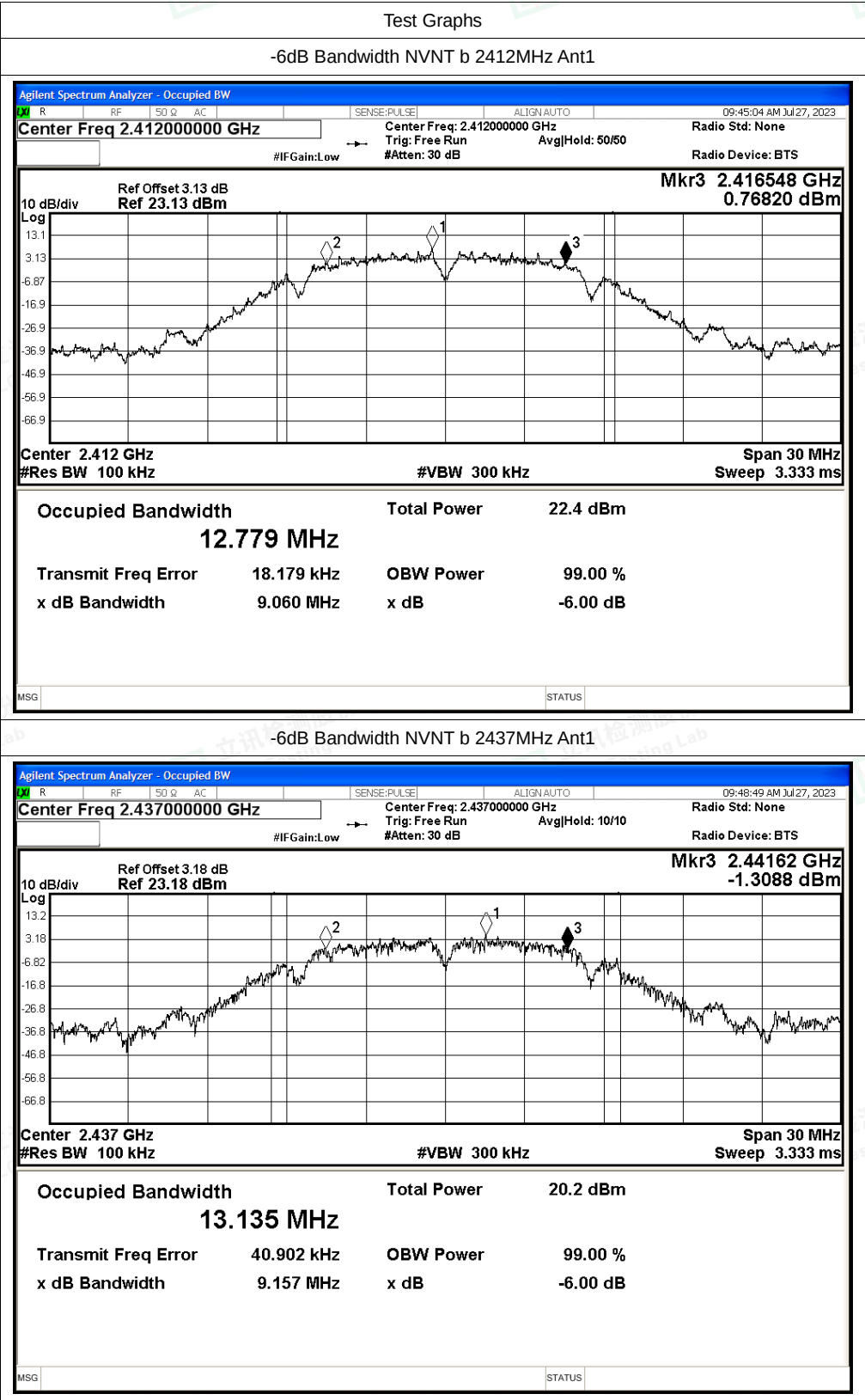


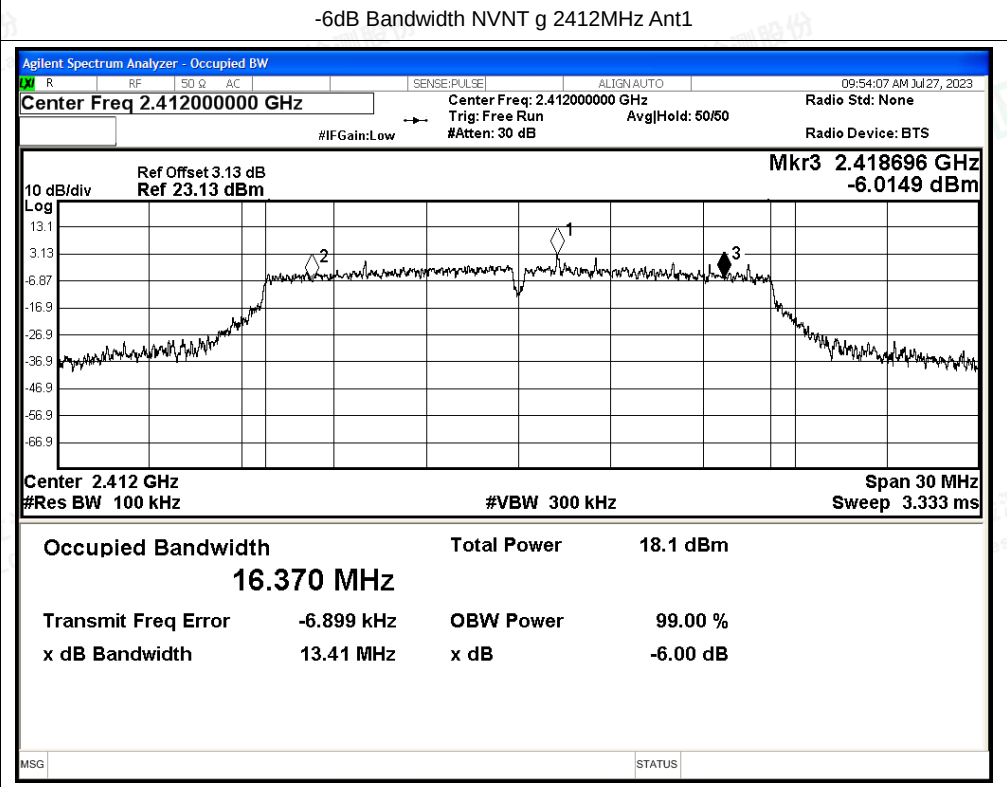
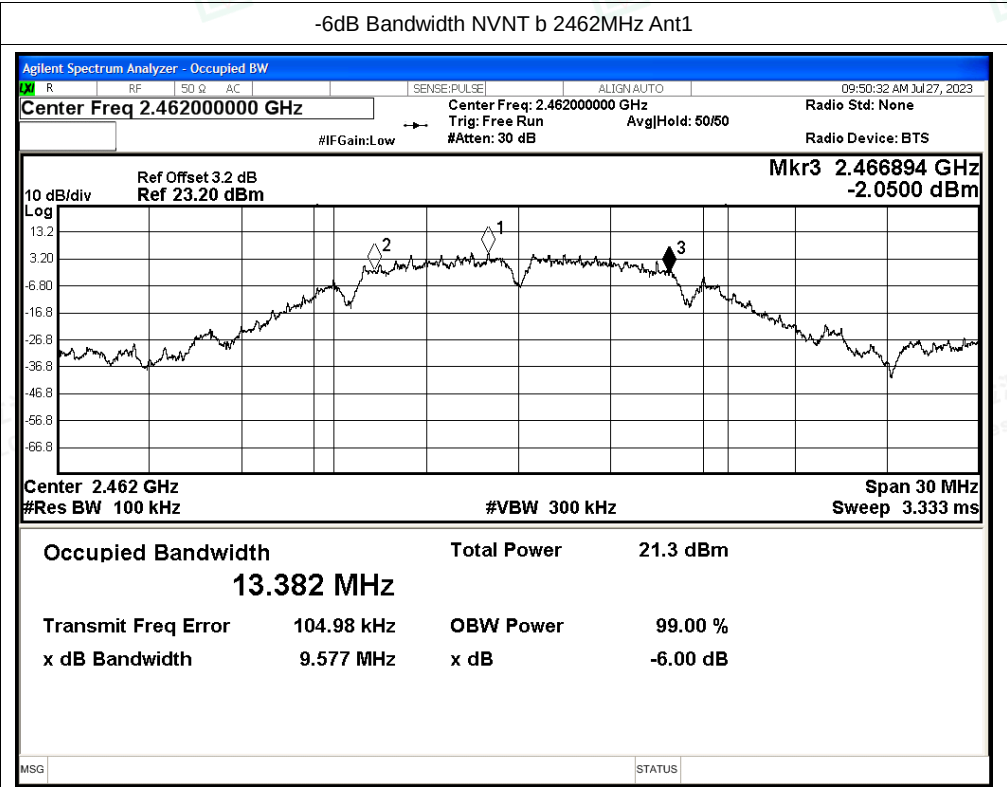


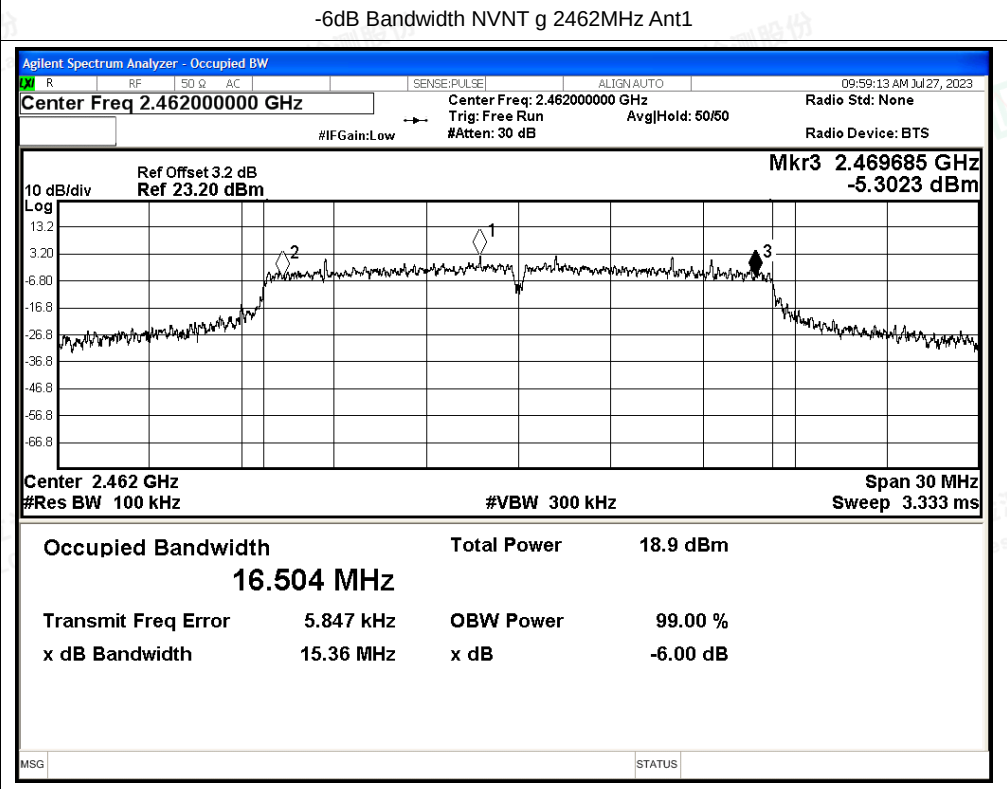
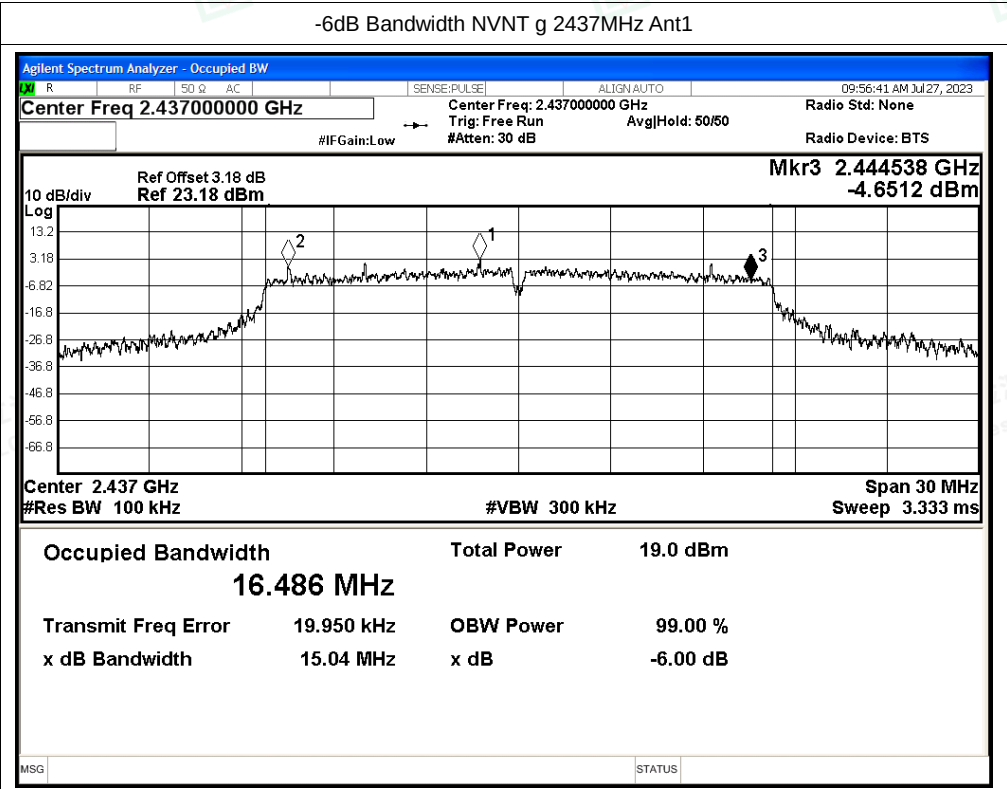
C.1 -6dB Bandwidth

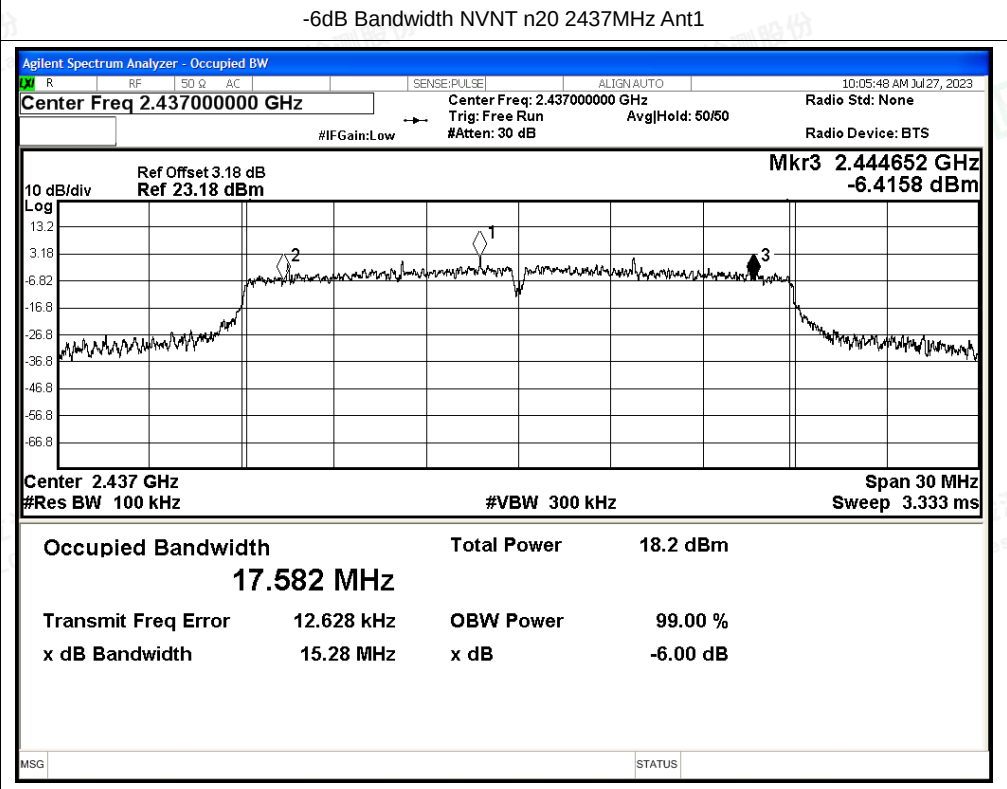
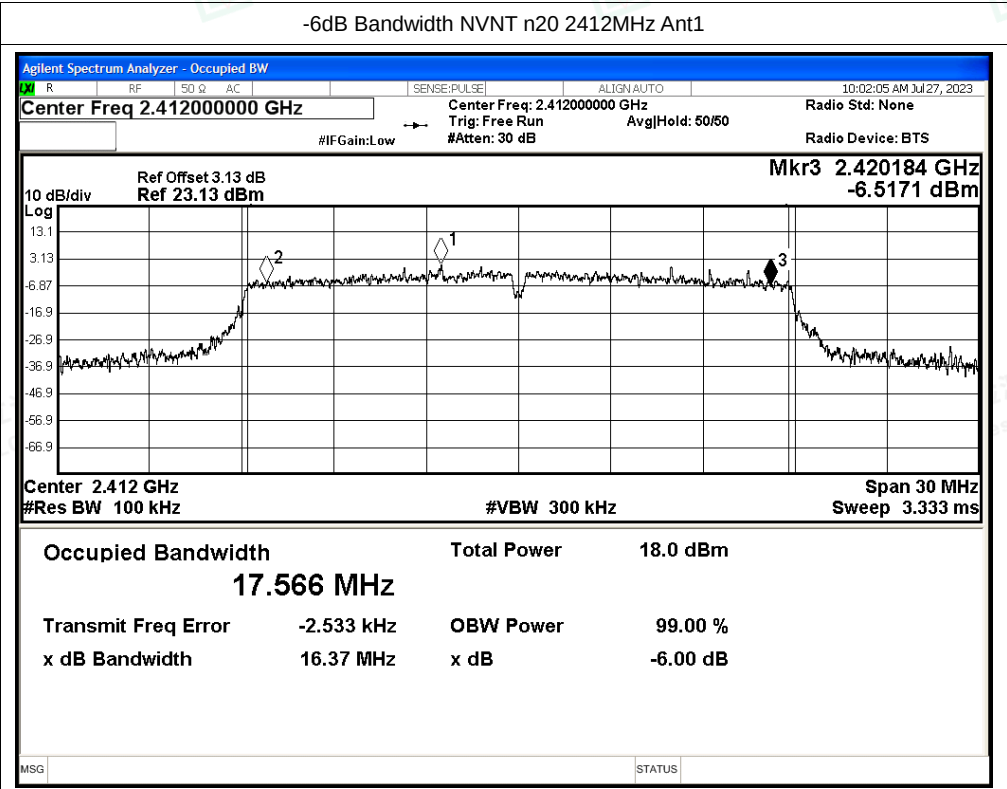
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.06	>=0.5	Pass
NVNT	b	2437	Ant1	9.157	>=0.5	Pass
NVNT	b	2462	Ant1	9.577	>=0.5	Pass
NVNT	g	2412	Ant1	13.406	>=0.5	Pass
NVNT	g	2437	Ant1	15.037	>=0.5	Pass
NVNT	g	2462	Ant1	15.358	>=0.5	Pass
NVNT	n20	2412	Ant1	16.372	>=0.5	Pass
NVNT	n20	2437	Ant1	15.279	>=0.5	Pass
NVNT	n20	2462	Ant1	15.701	>=0.5	Pass
NVNT	n40	2422	Ant1	35.08	>=0.5	Pass
NVNT	n40	2437	Ant1	32.598	>=0.5	Pass
NVNT	n40	2452	Ant1	35.032	>=0.5	Pass

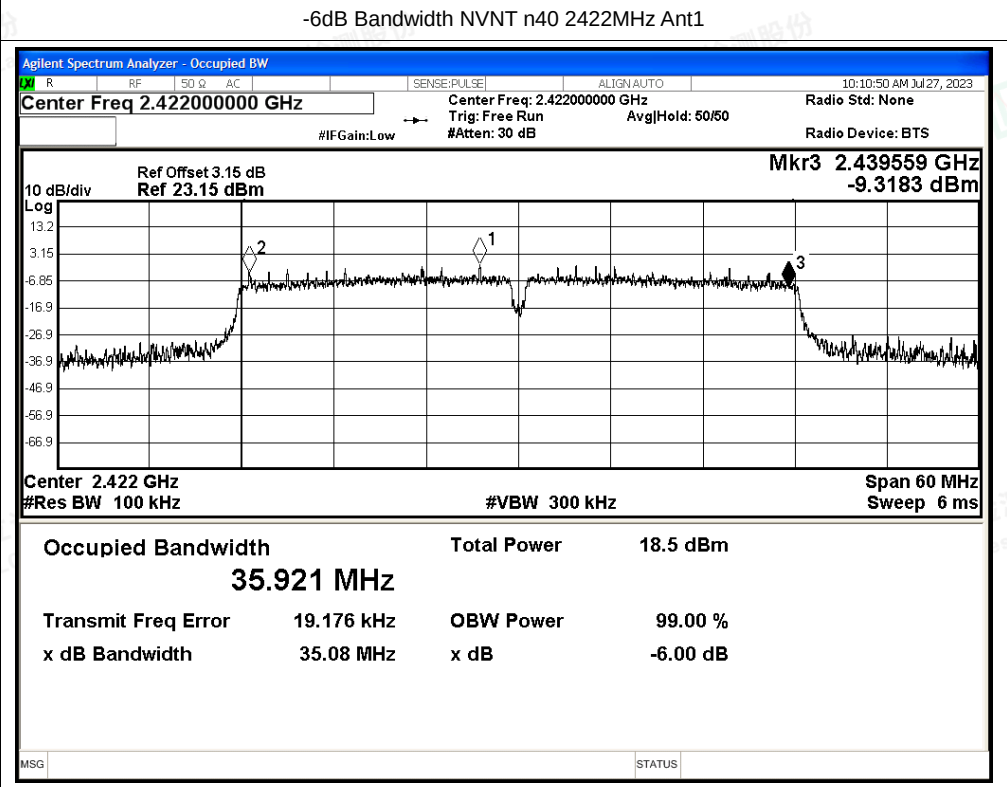
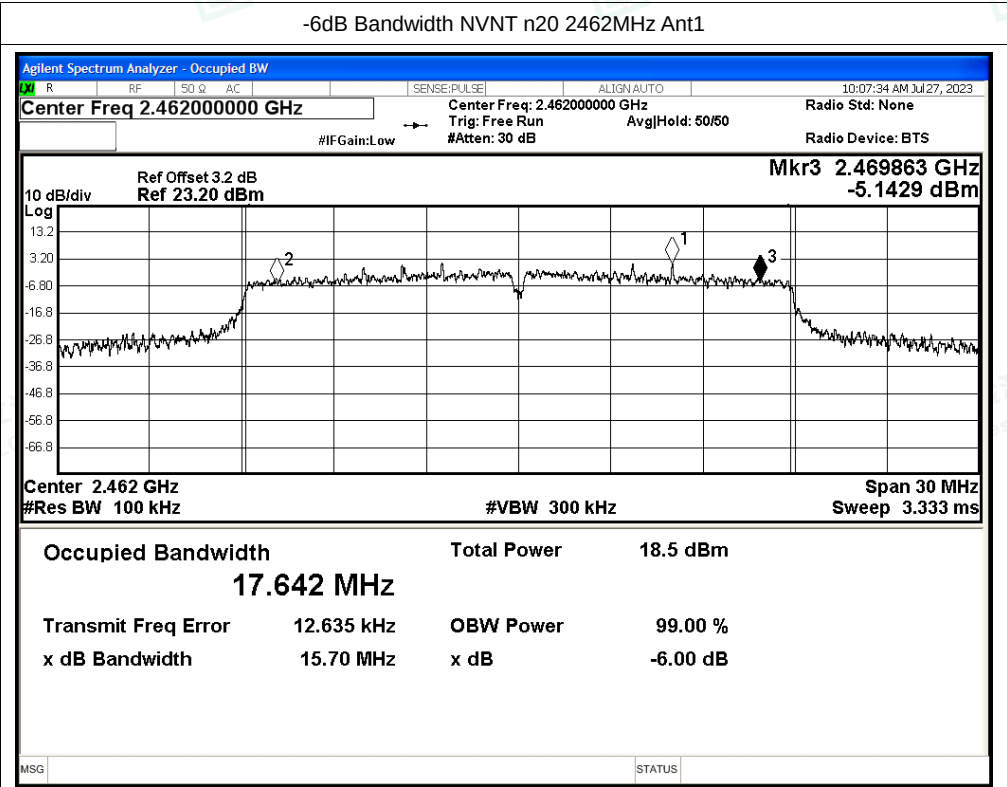


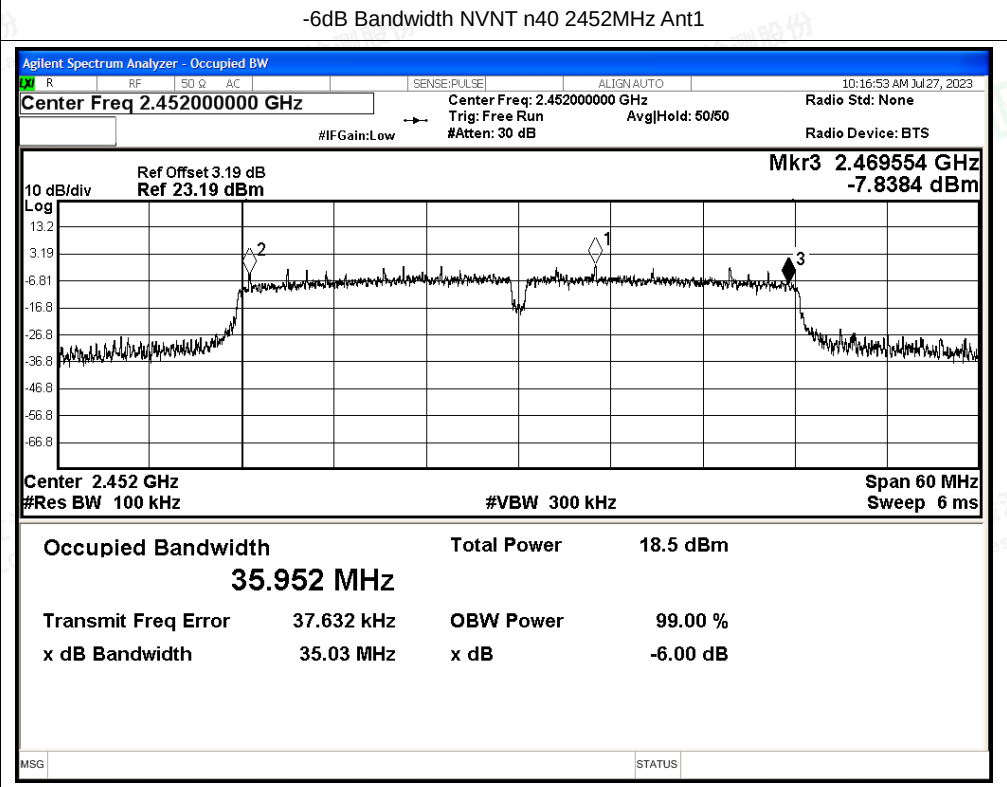
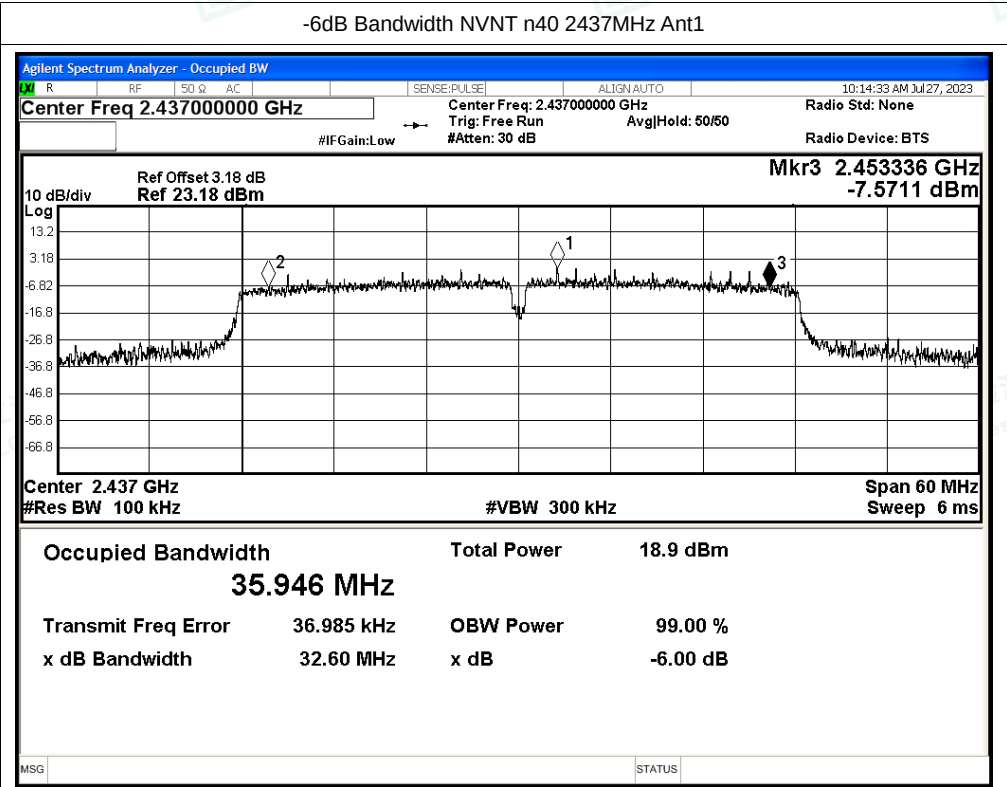














C.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	17.62	30	Pass
NVNT	b	2437	Ant1	17.14	30	Pass
NVNT	b	2462	Ant1	16.52	30	Pass
NVNT	g	2412	Ant1	15.52	30	Pass
NVNT	g	2437	Ant1	16.58	30	Pass
NVNT	g	2462	Ant1	16.23	30	Pass
NVNT	n20	2412	Ant1	15.54	30	Pass
NVNT	n20	2437	Ant1	15.69	30	Pass
NVNT	n20	2462	Ant1	17.40	30	Pass
NVNT	n40	2422	Ant1	15.64	30	Pass
NVNT	n40	2437	Ant1	16.12	30	Pass
NVNT	n40	2452	Ant1	15.71	30	Pass

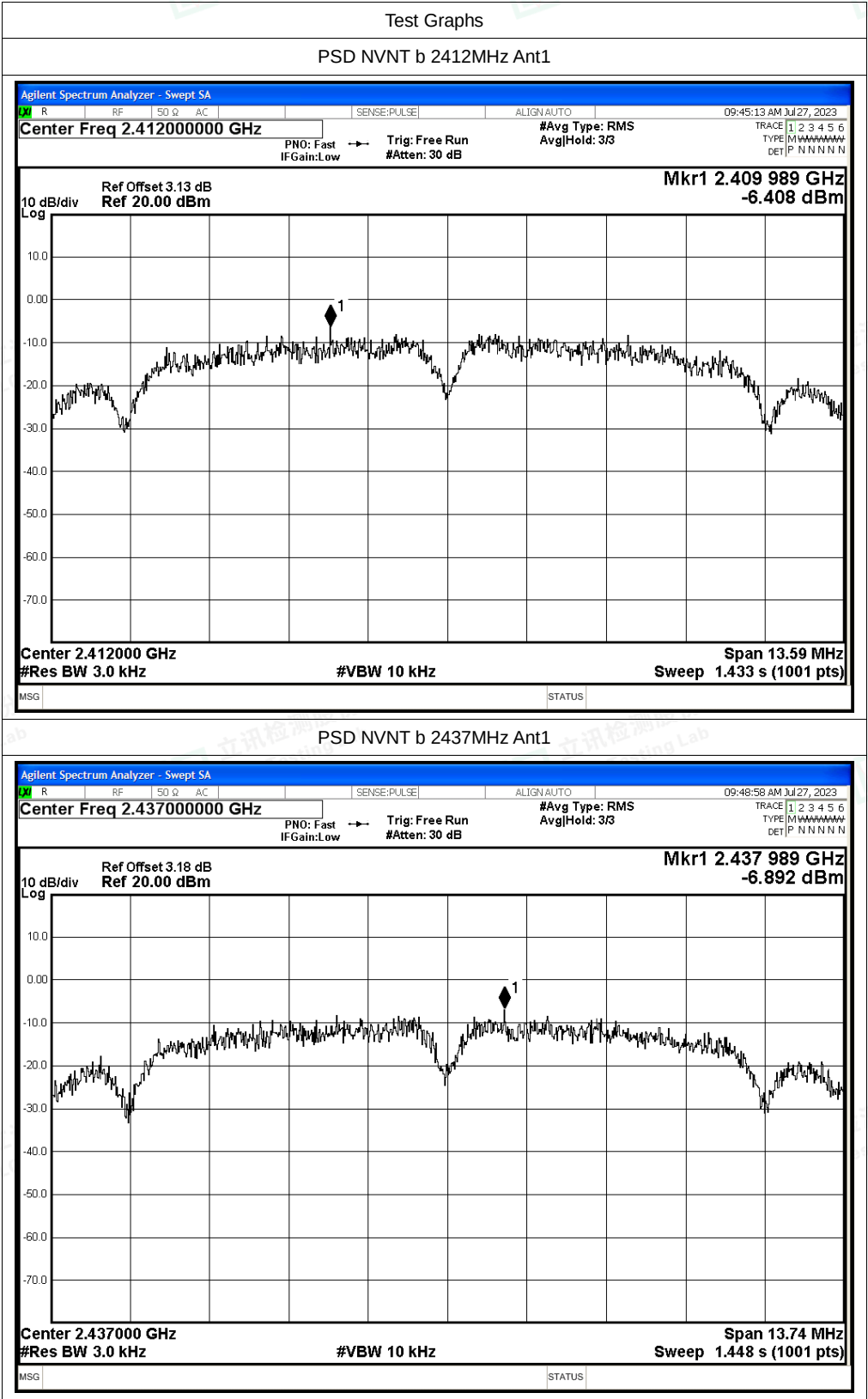


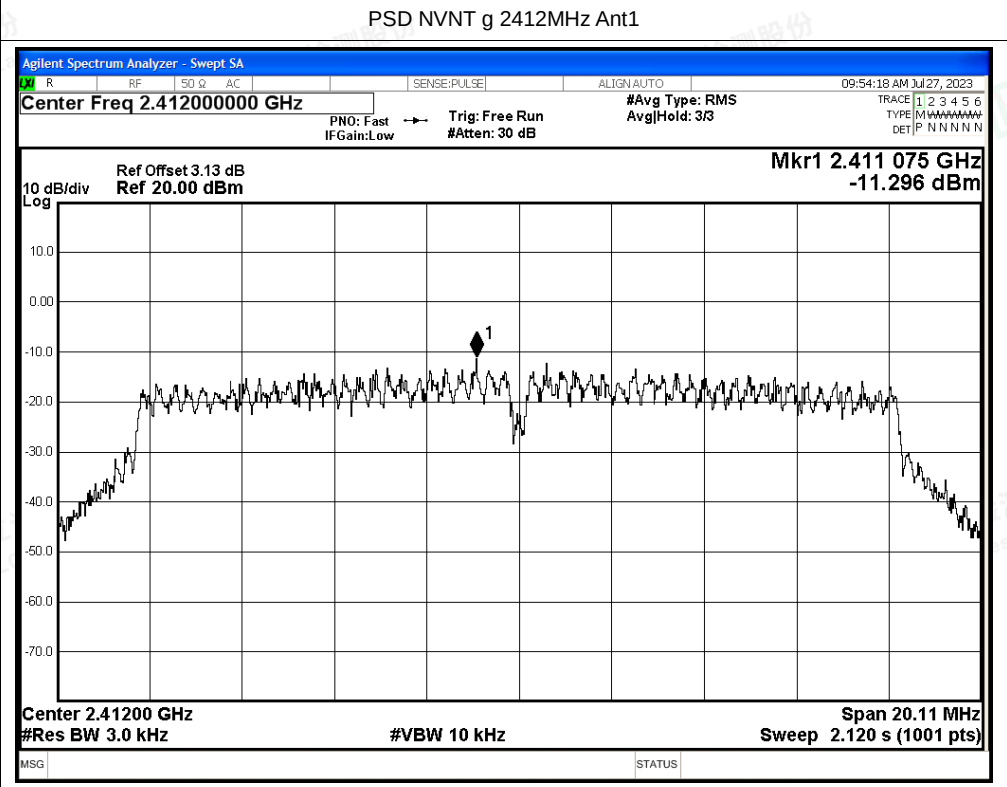
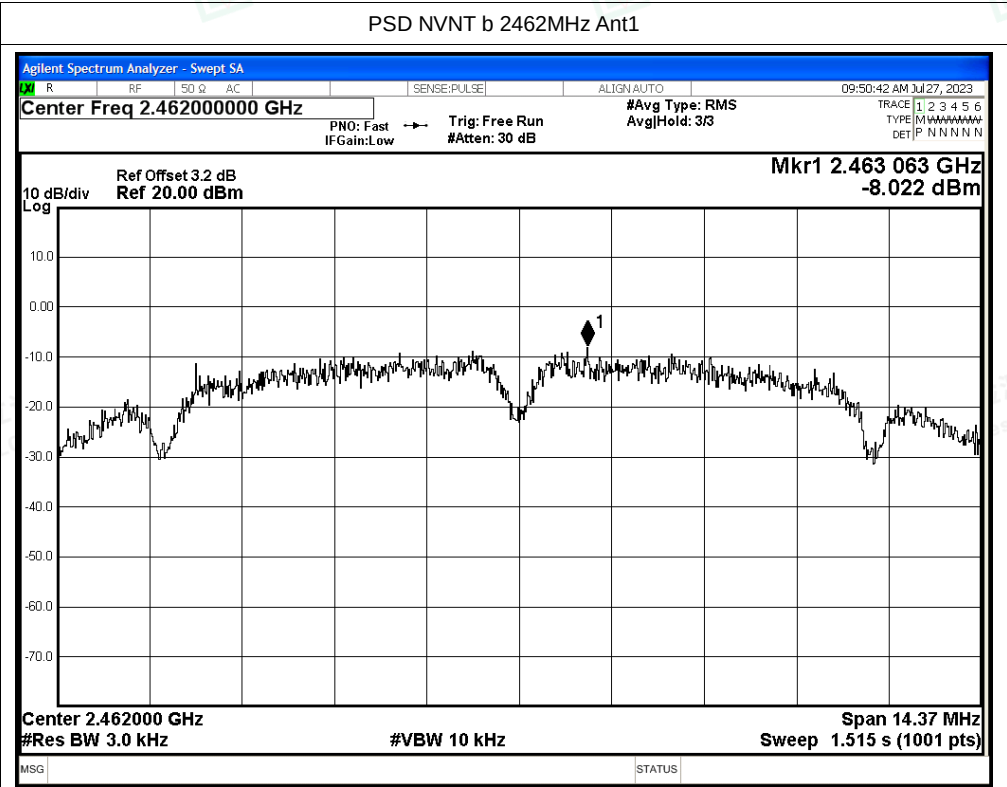


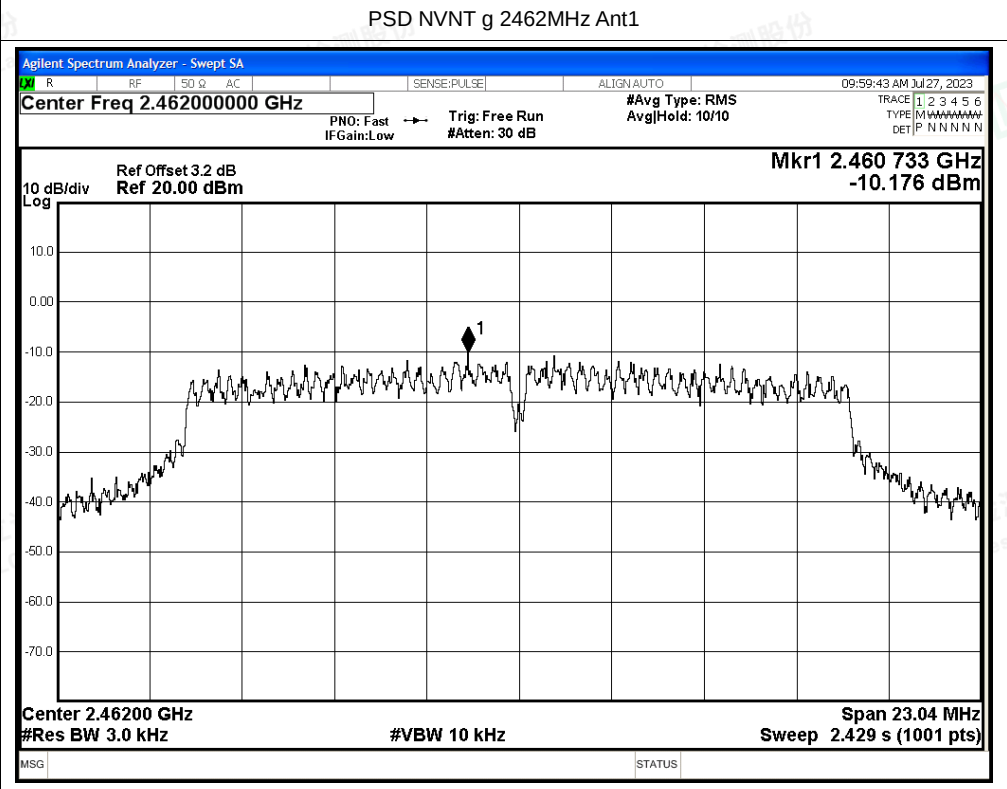
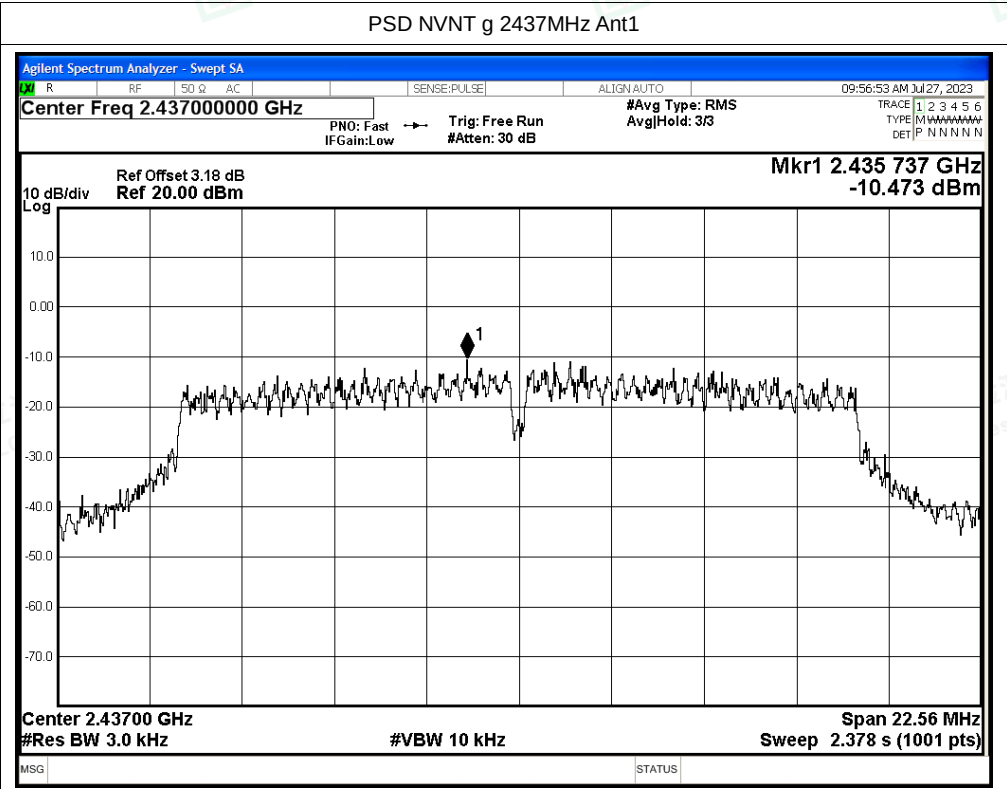
C.3 Maximum Power Spectral Density Level

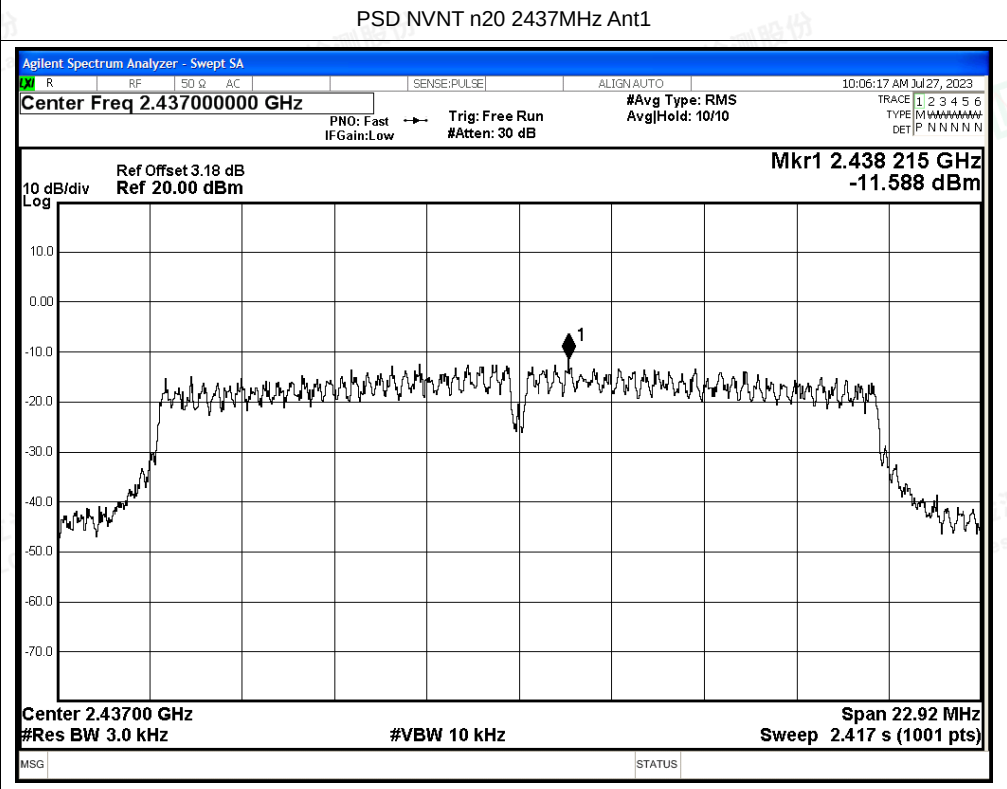
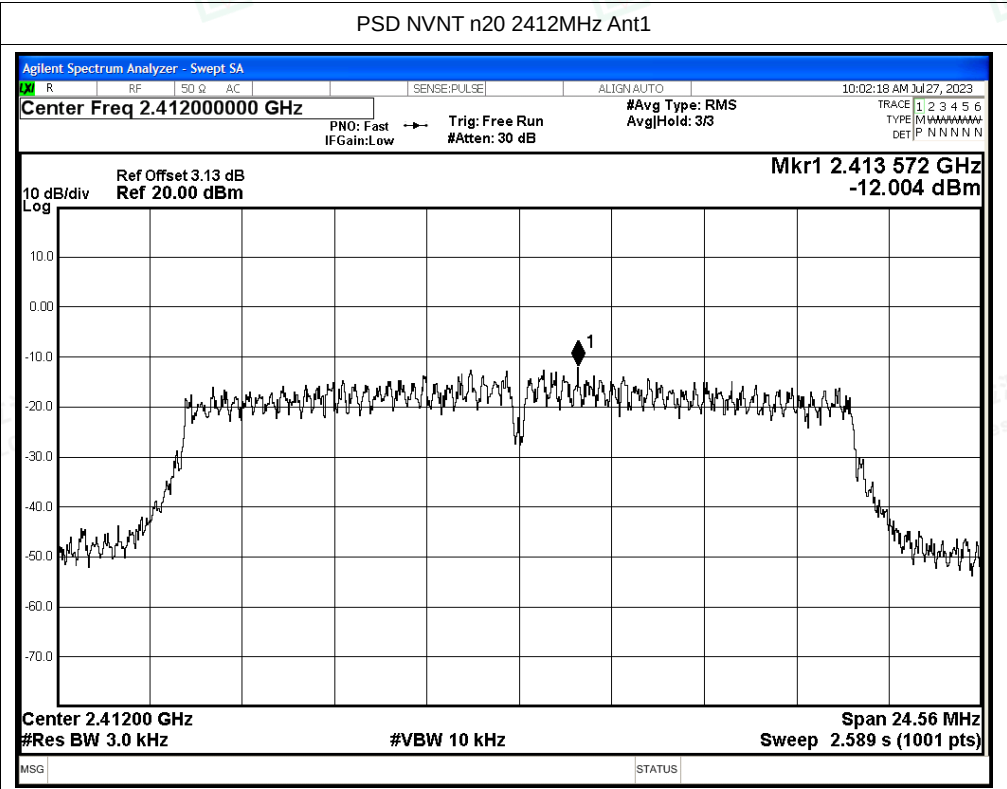
Condition	Mode	Frequency (MHz)	Antenna	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-6.41	8	Pass
NVNT	b	2437	Ant1	-6.89	8	Pass
NVNT	b	2462	Ant1	-8.02	8	Pass
NVNT	g	2412	Ant1	-11.3	8	Pass
NVNT	g	2437	Ant1	-10.47	8	Pass
NVNT	g	2462	Ant1	-10.18	8	Pass
NVNT	n20	2412	Ant1	-12	8	Pass
NVNT	n20	2437	Ant1	-11.59	8	Pass
NVNT	n20	2462	Ant1	-12.06	8	Pass
NVNT	n40	2422	Ant1	-15.43	8	Pass
NVNT	n40	2437	Ant1	-14.01	8	Pass
NVNT	n40	2452	Ant1	-15.17	8	Pass

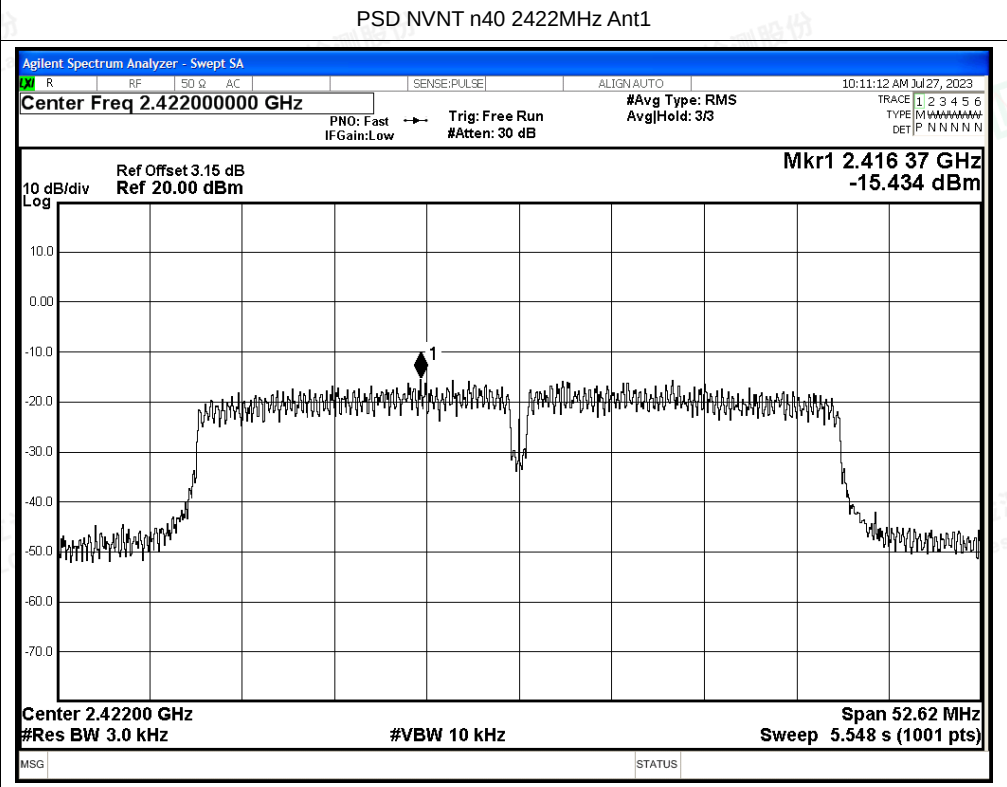
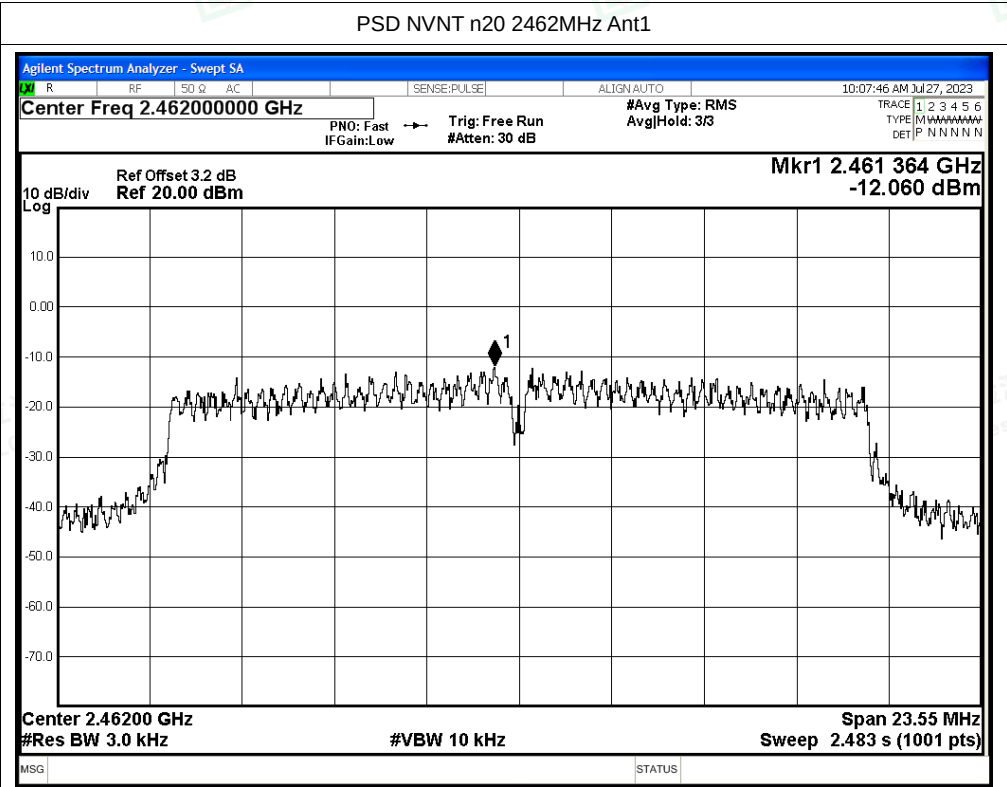


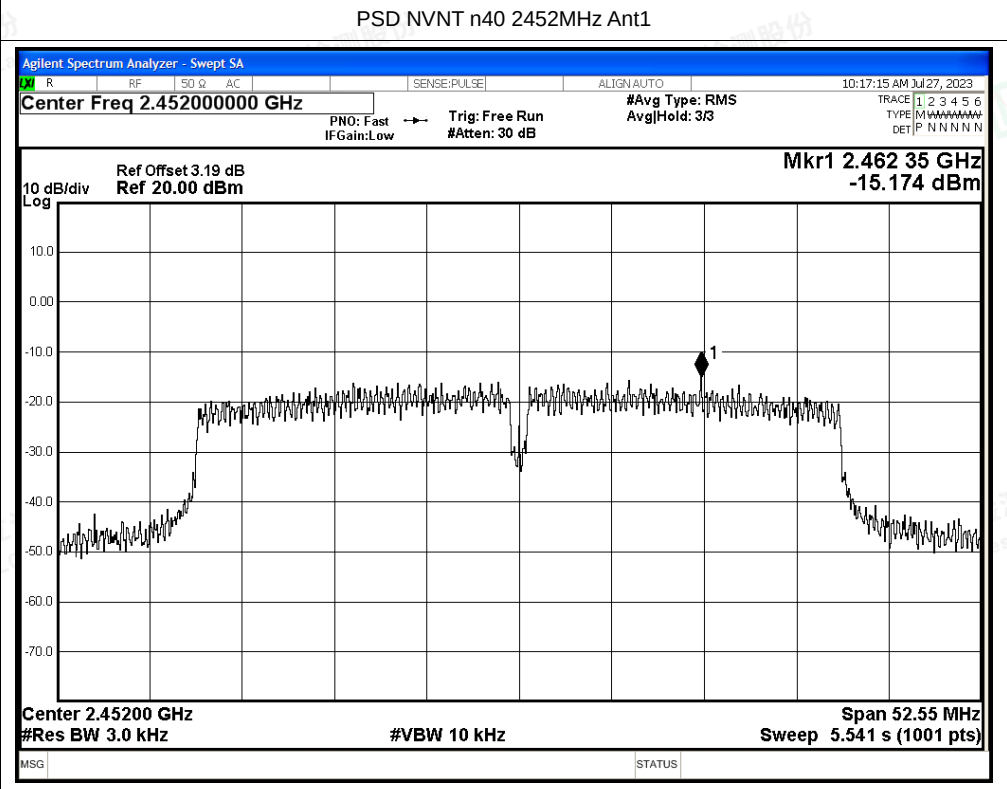
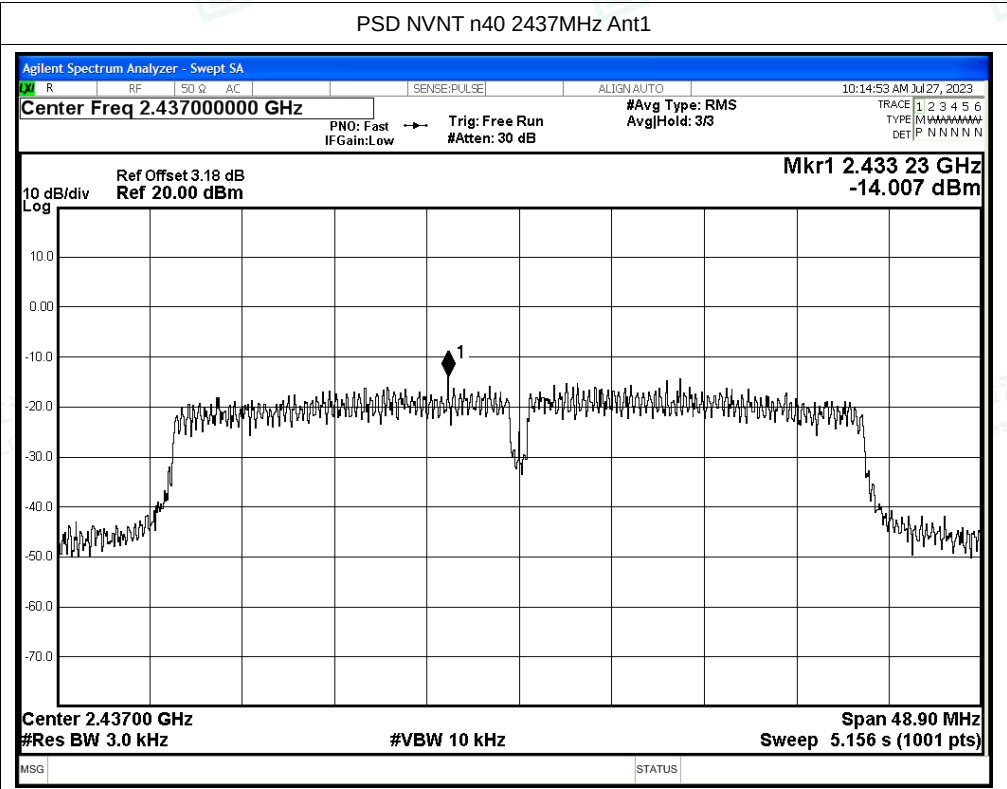










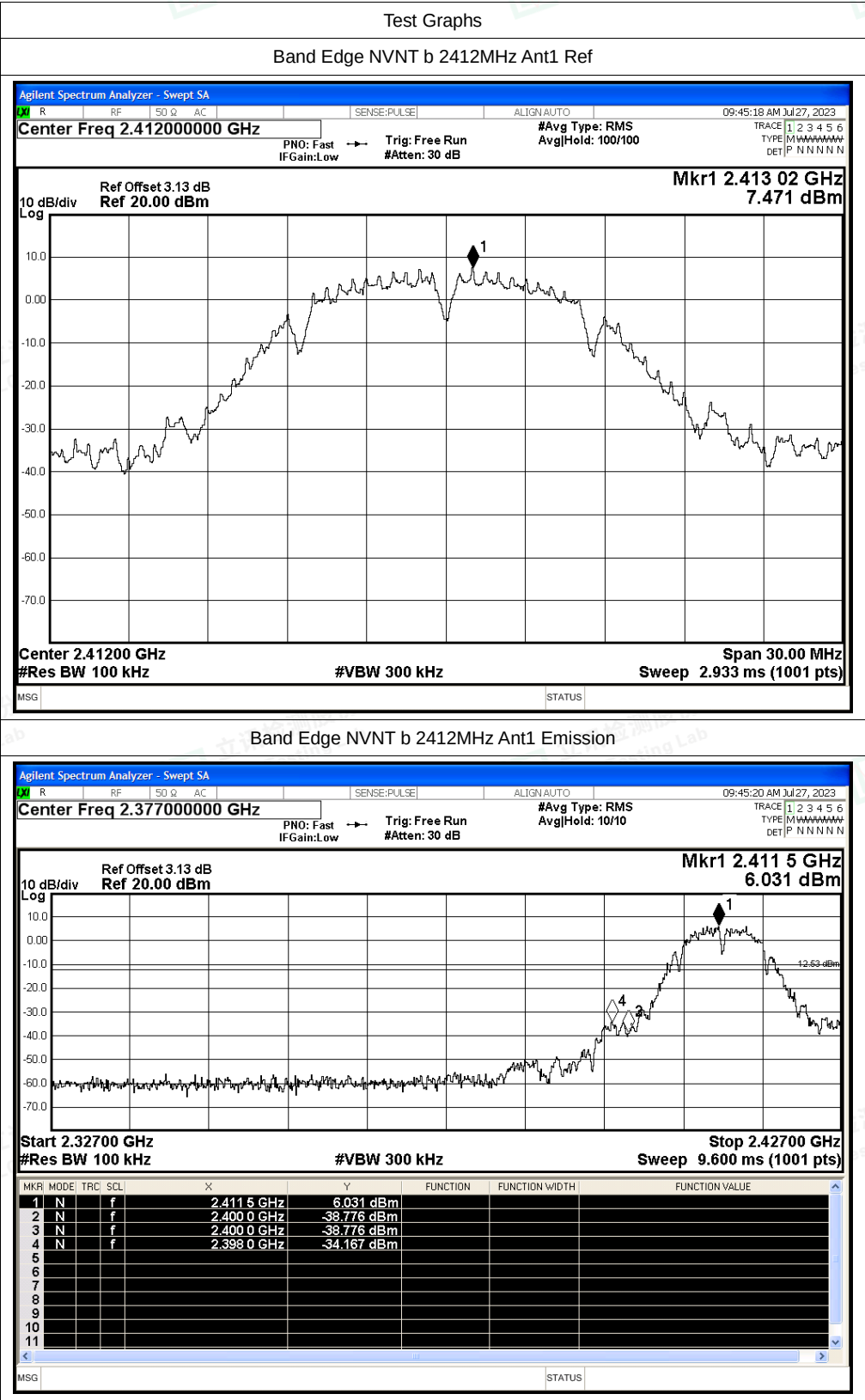


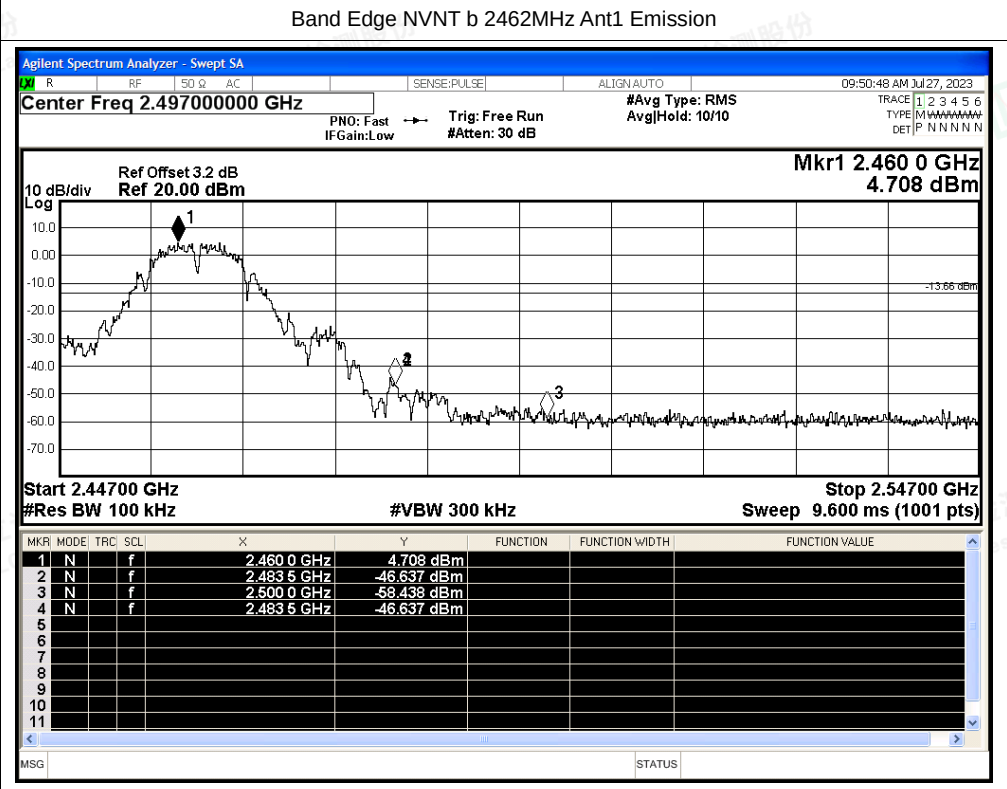
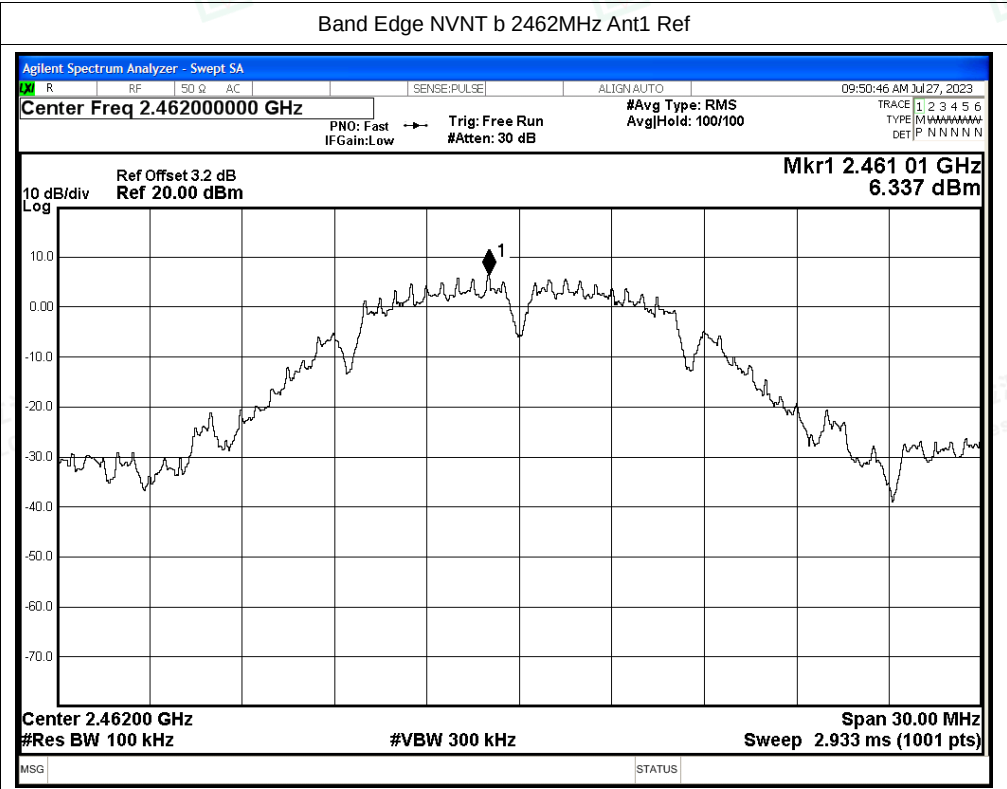


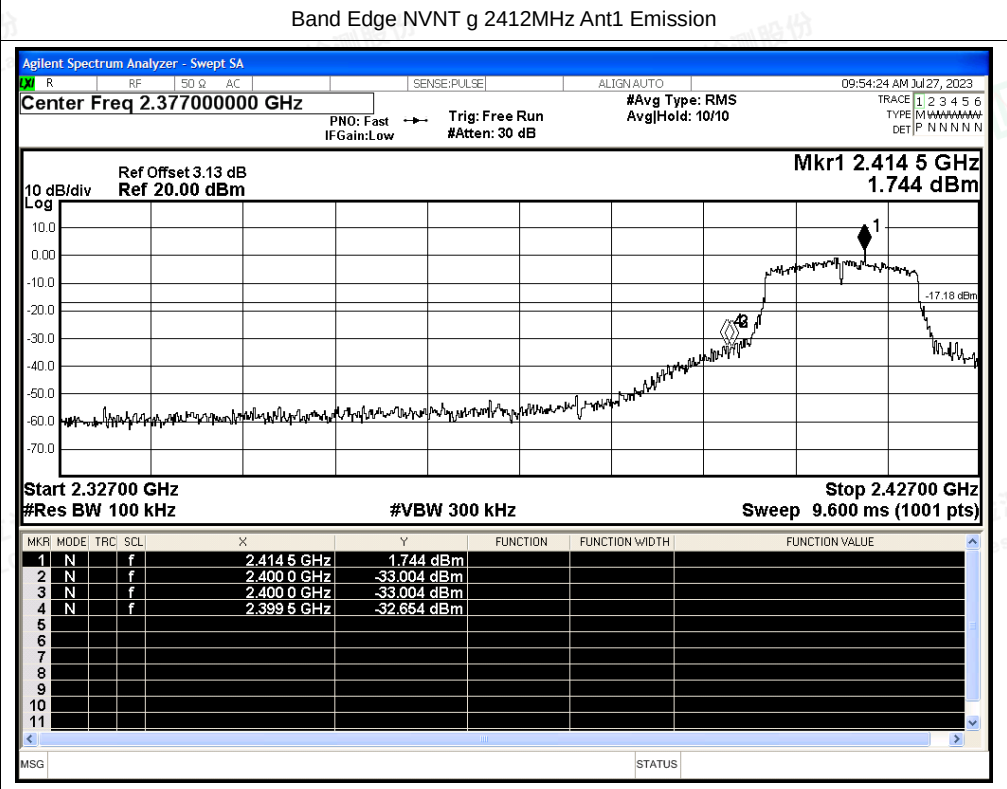
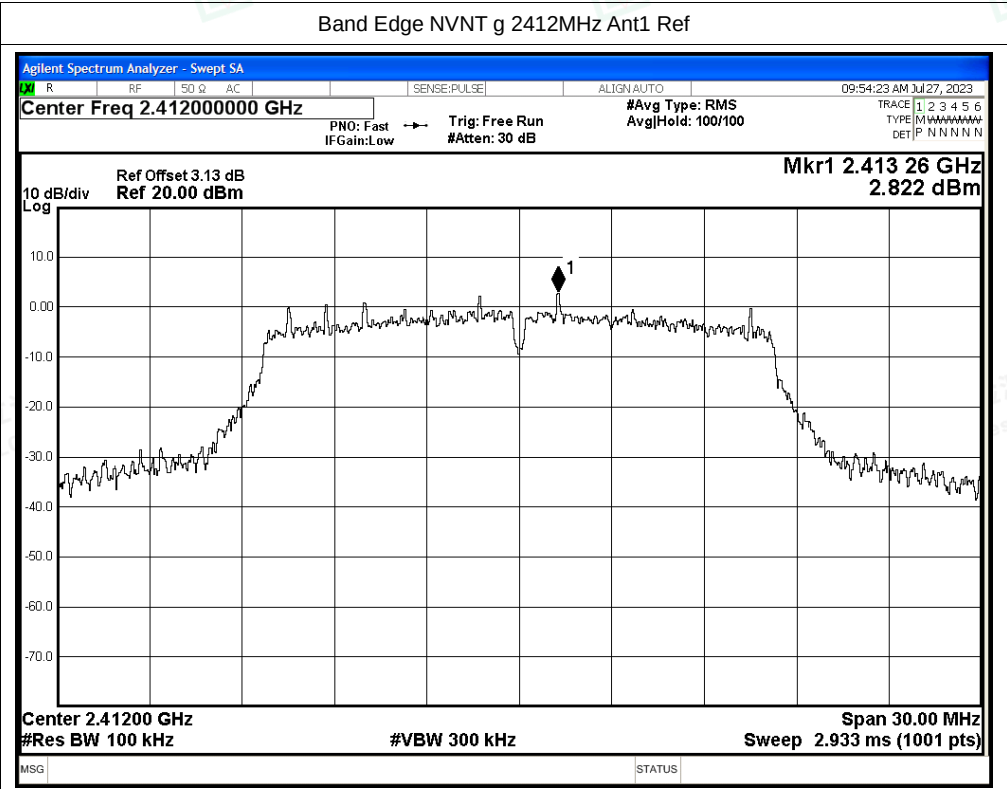
C.4 Band Edge

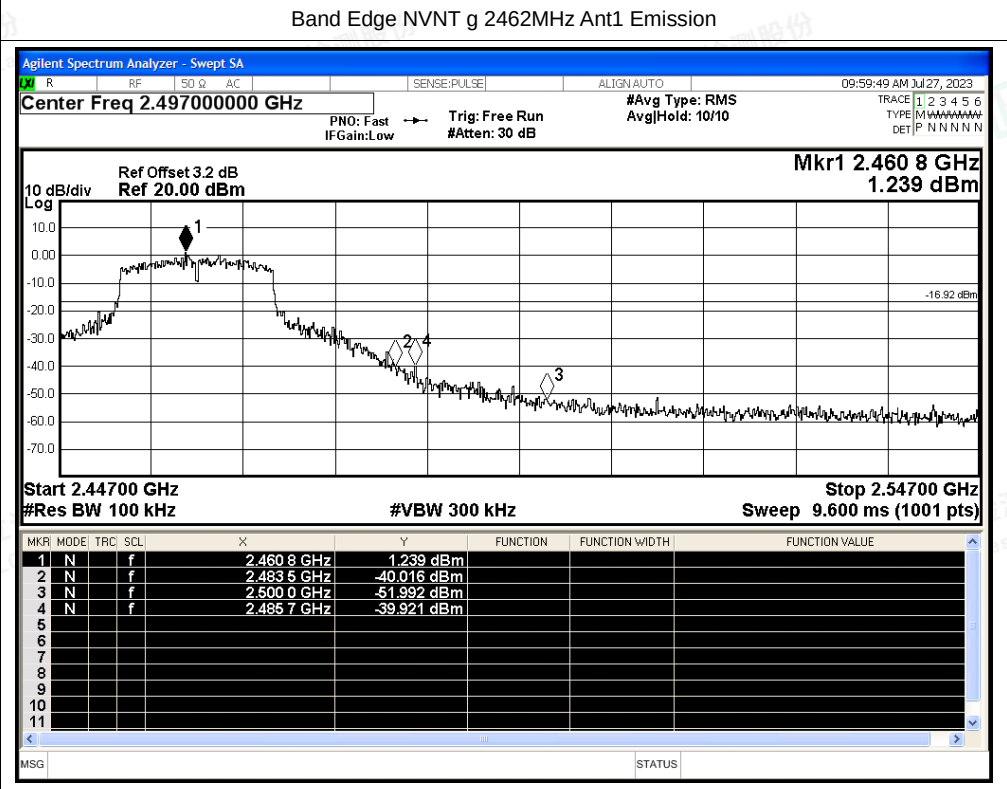
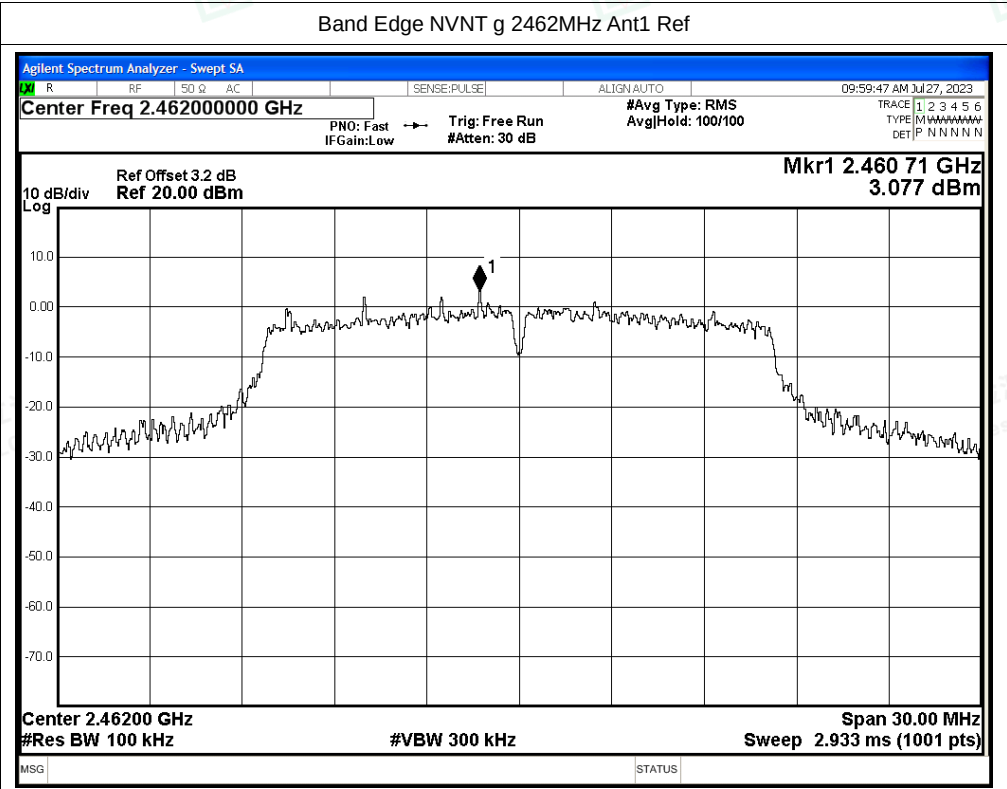
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-41.64	-20	Pass
NVNT	b	2462	Ant1	-52.97	-20	Pass
NVNT	g	2412	Ant1	-35.48	-20	Pass
NVNT	g	2462	Ant1	-43	-20	Pass
NVNT	n20	2412	Ant1	-34.14	-20	Pass
NVNT	n20	2462	Ant1	-39.33	-20	Pass
NVNT	n40	2422	Ant1	-30.14	-20	Pass
NVNT	n40	2452	Ant1	-30.06	-20	Pass

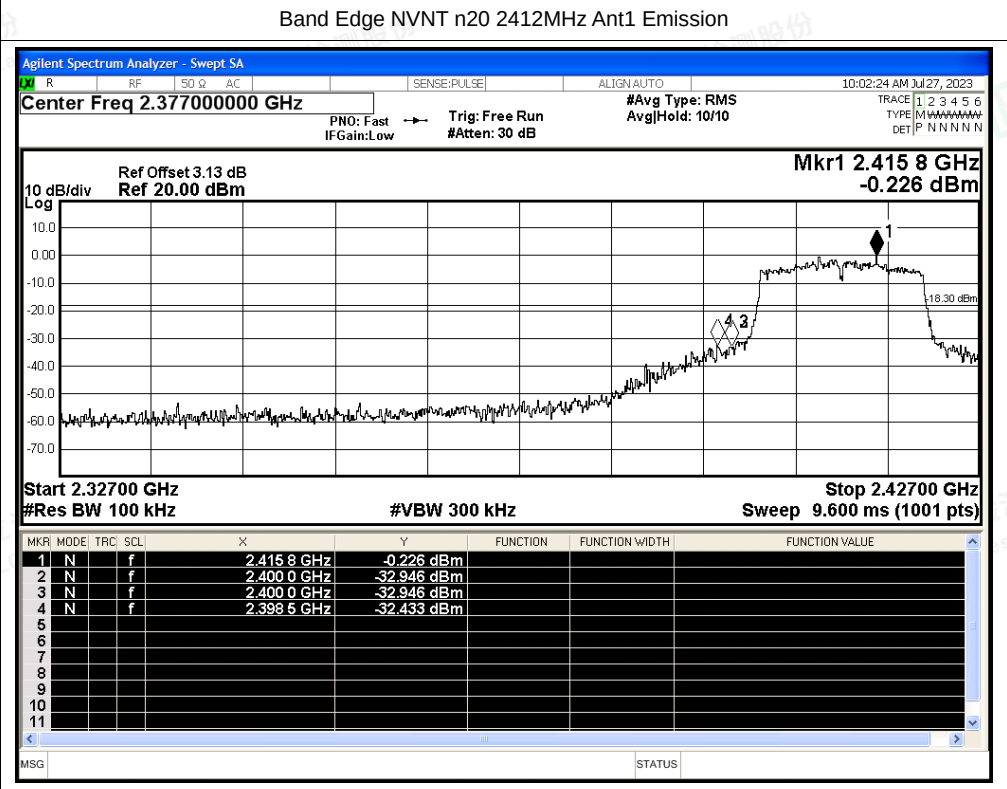
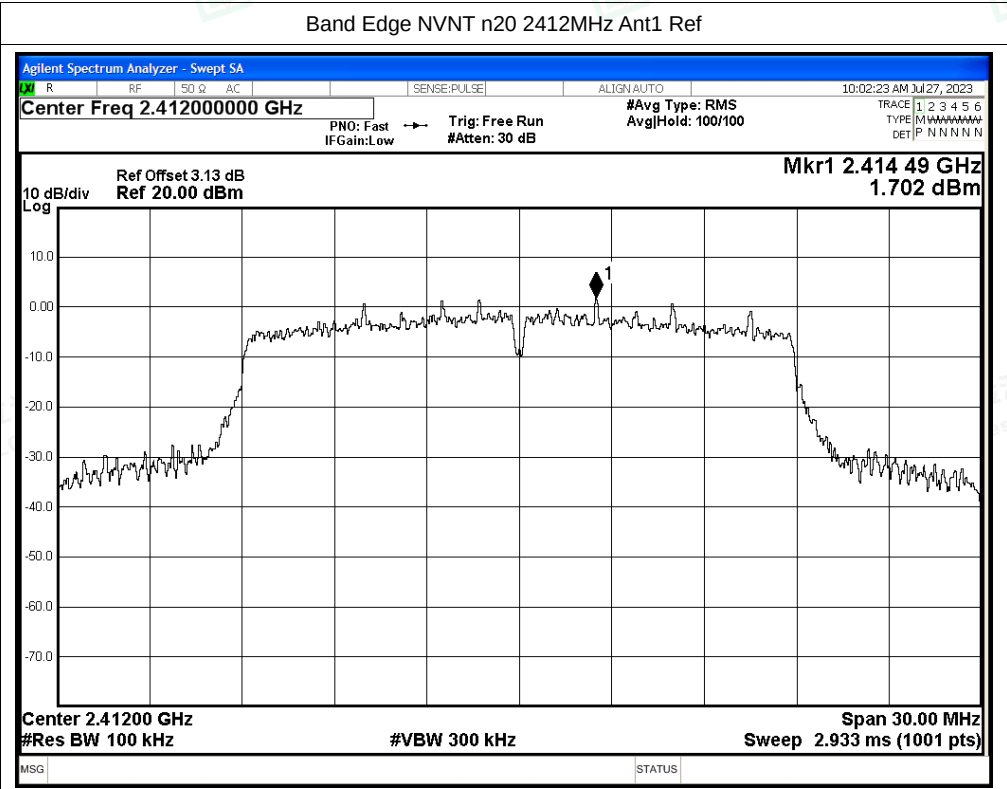


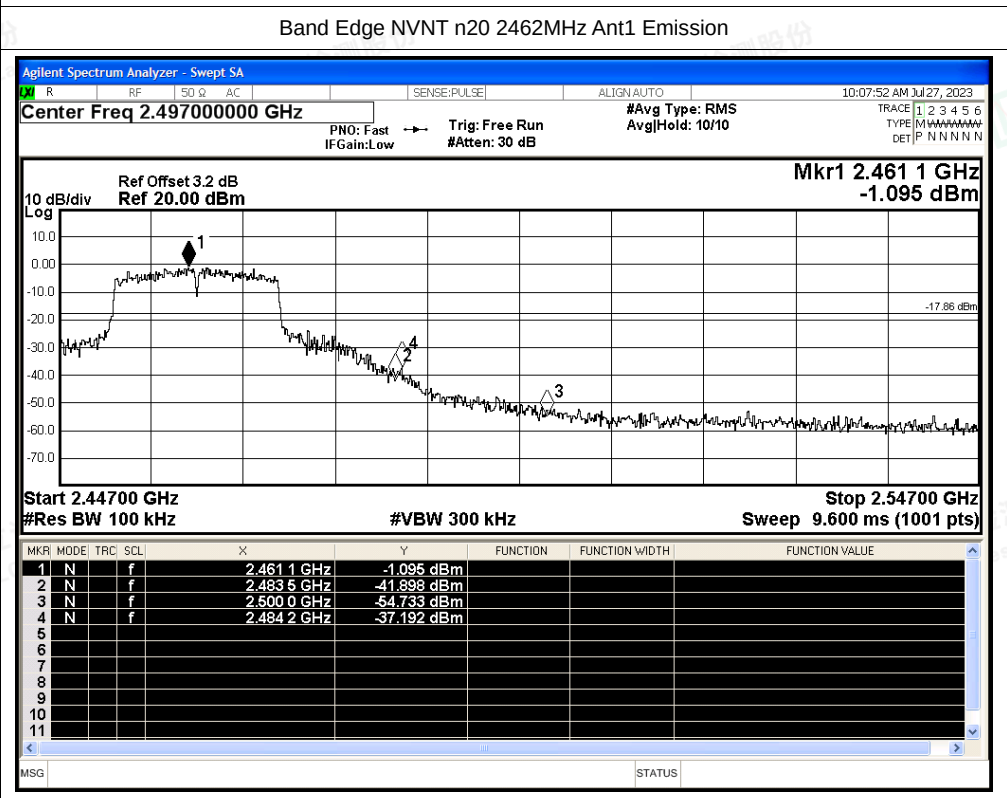
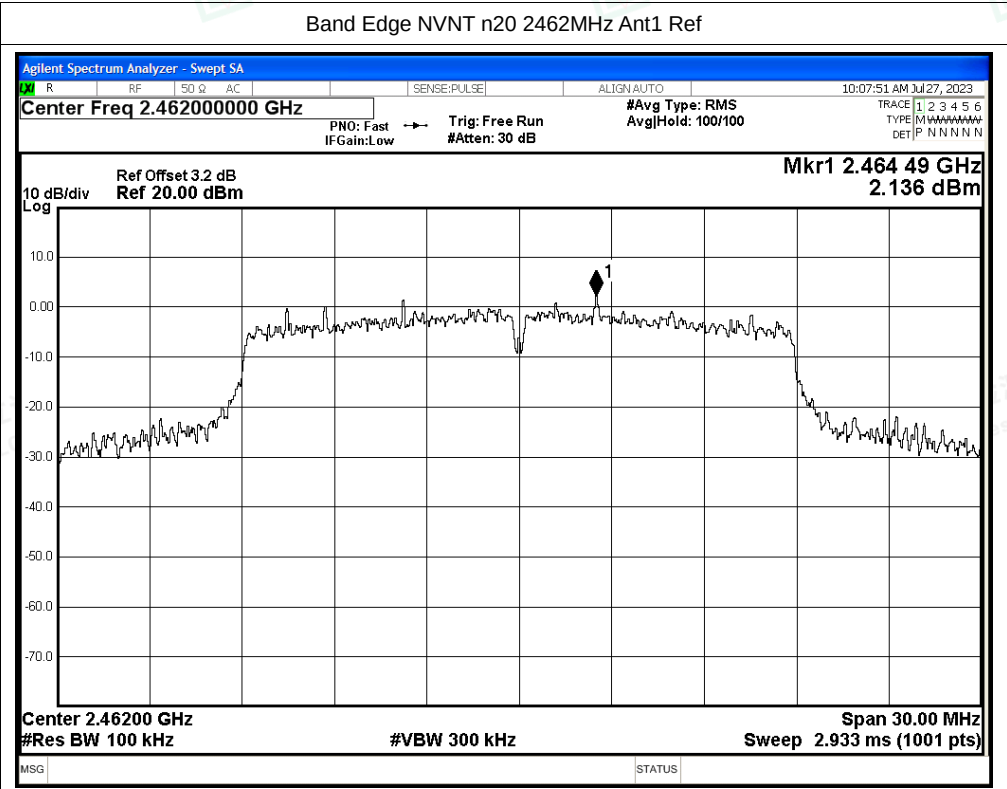


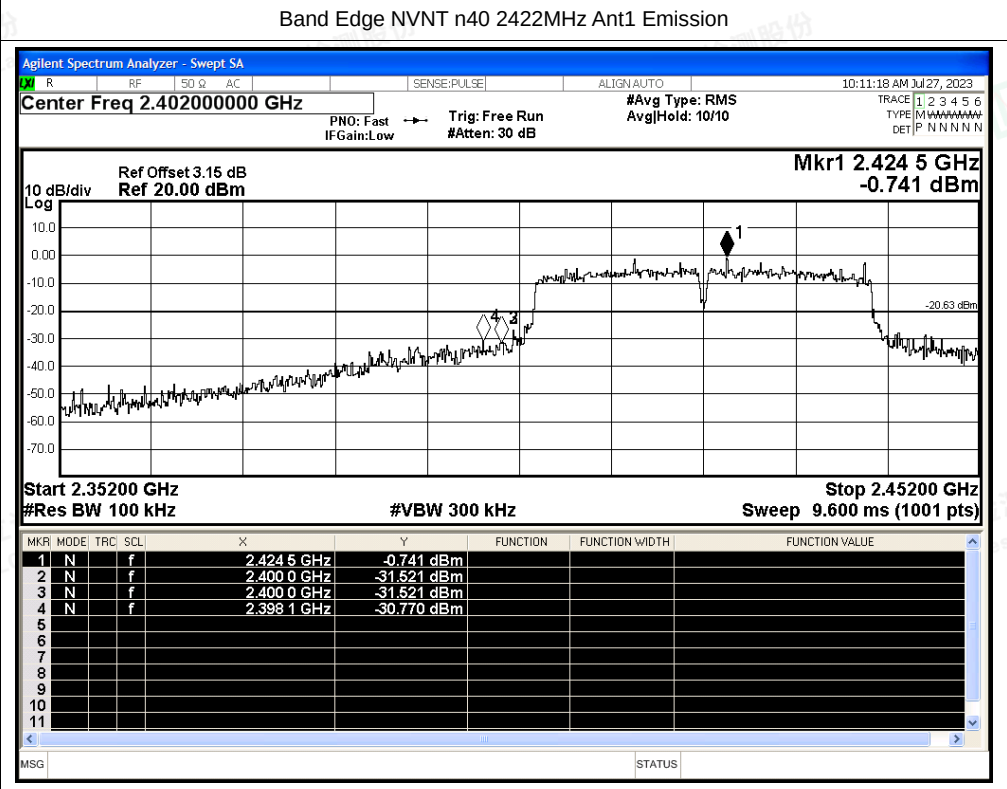
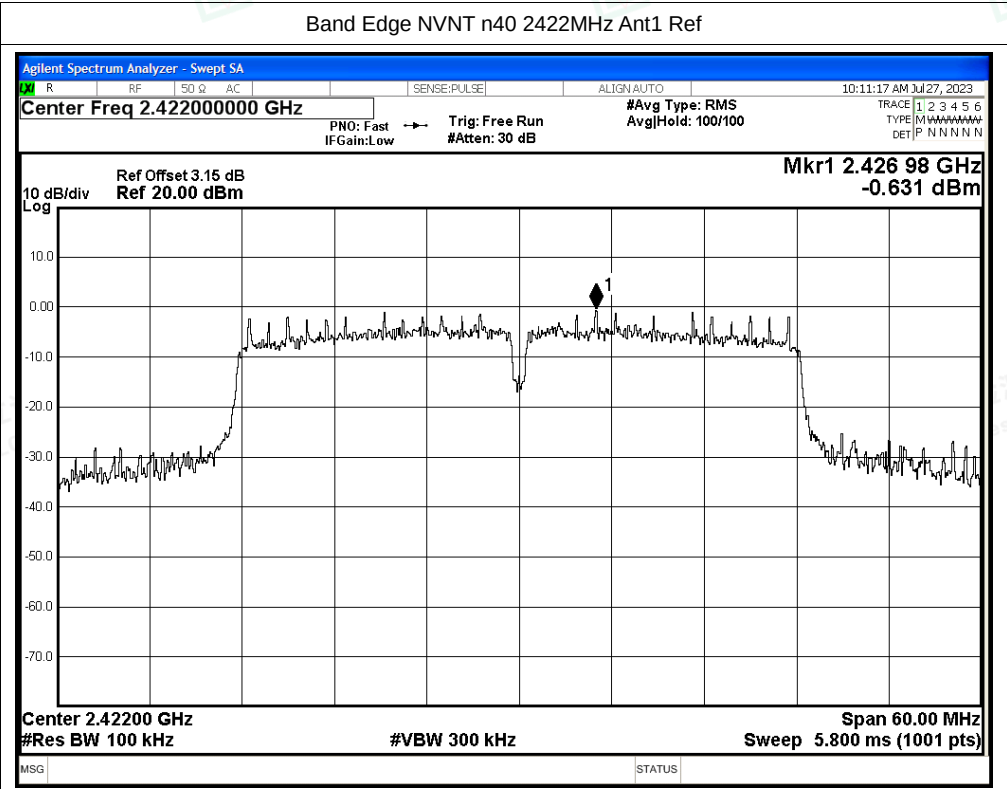


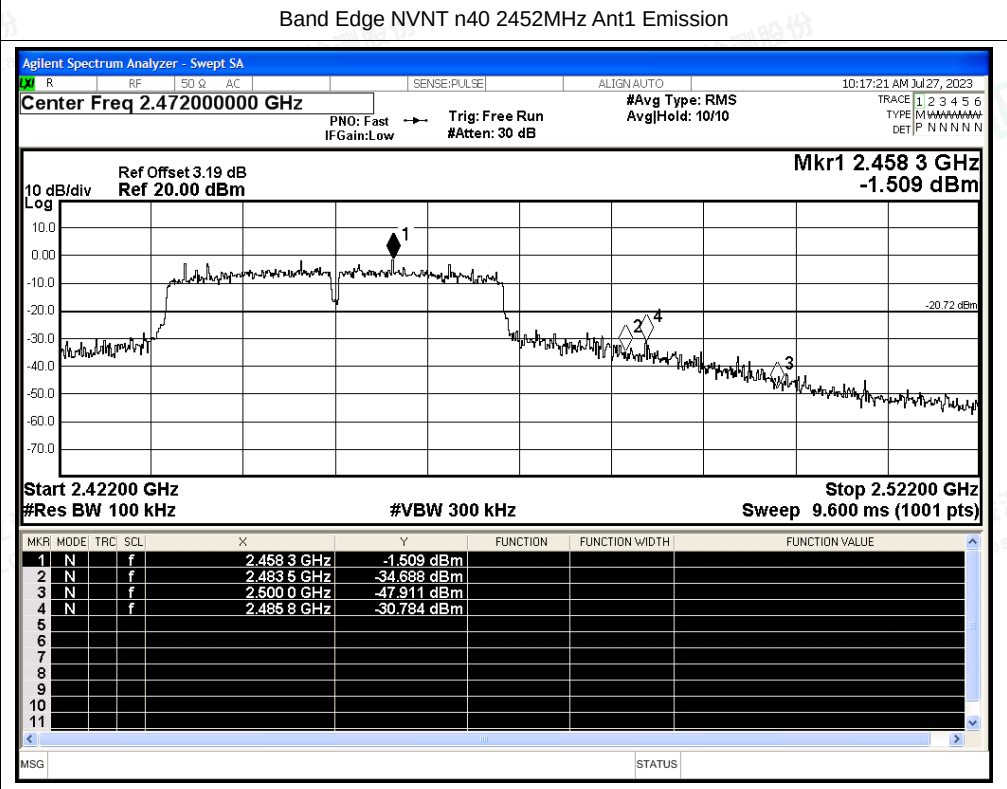
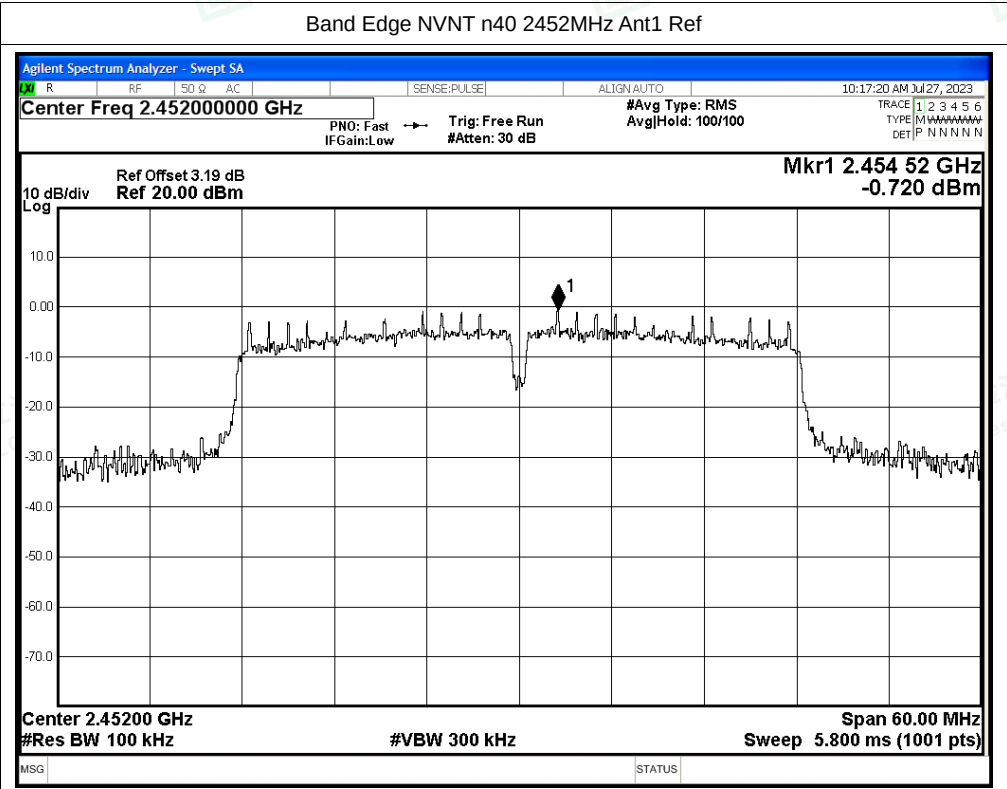










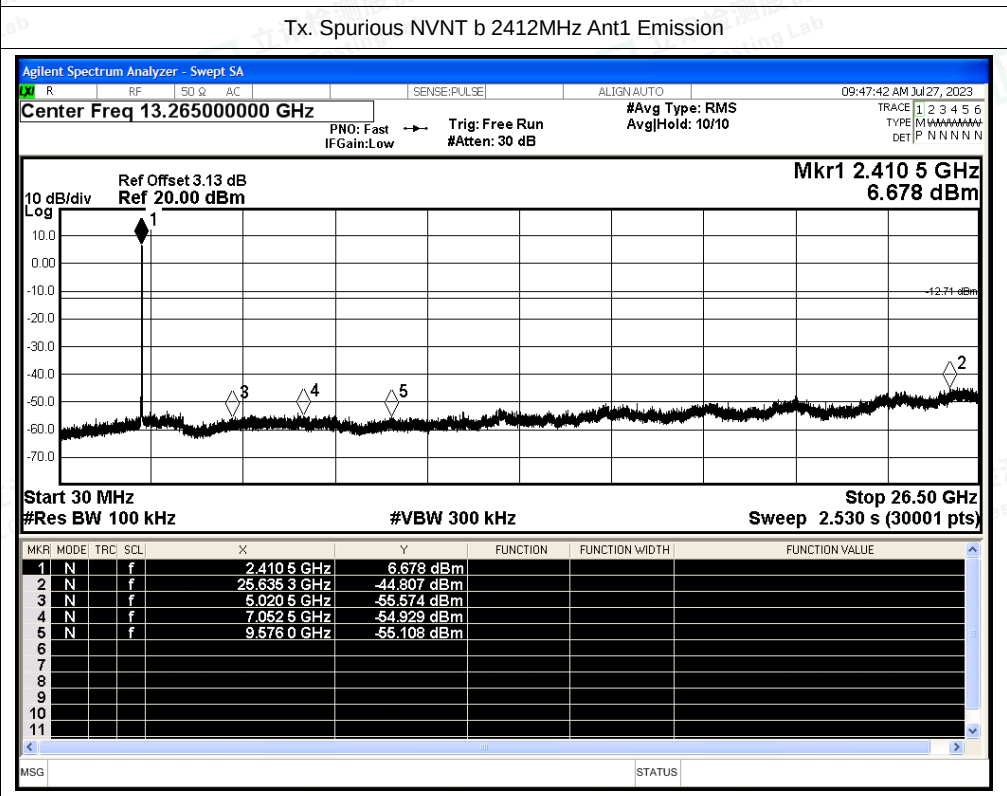
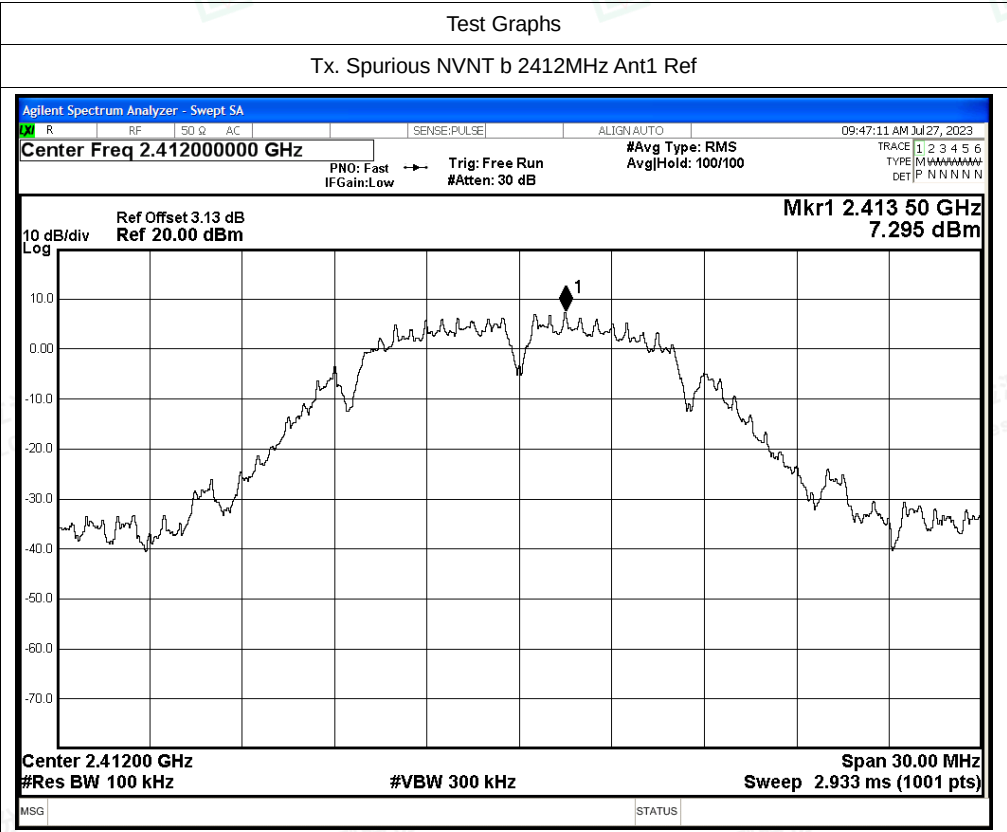


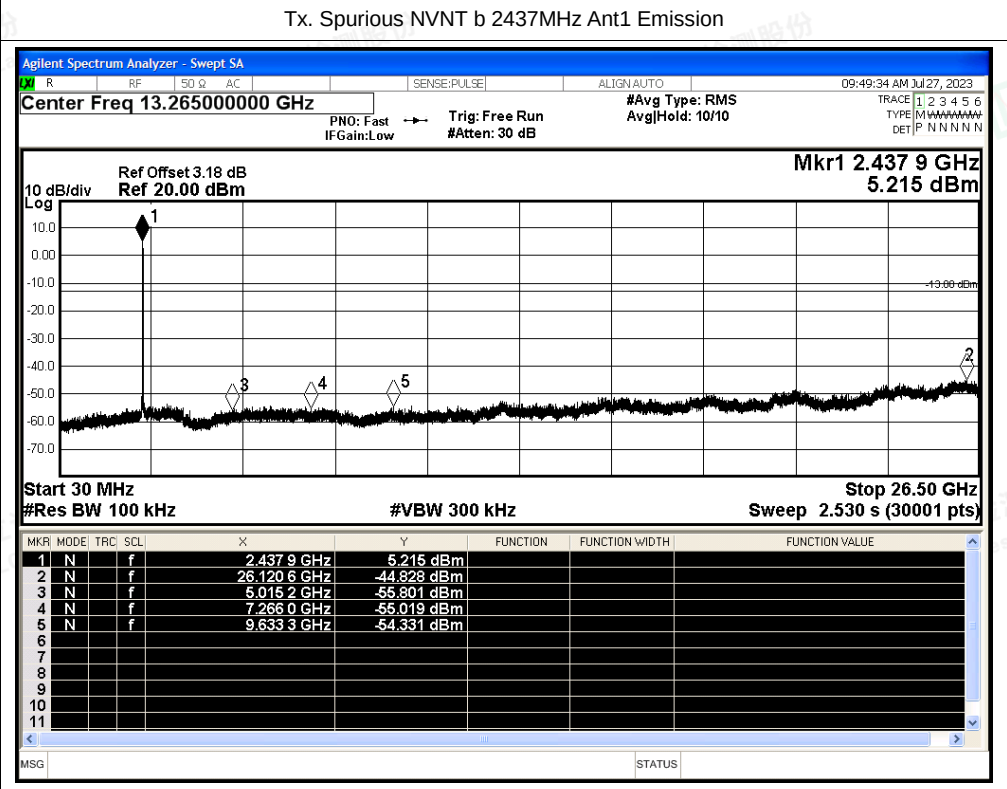
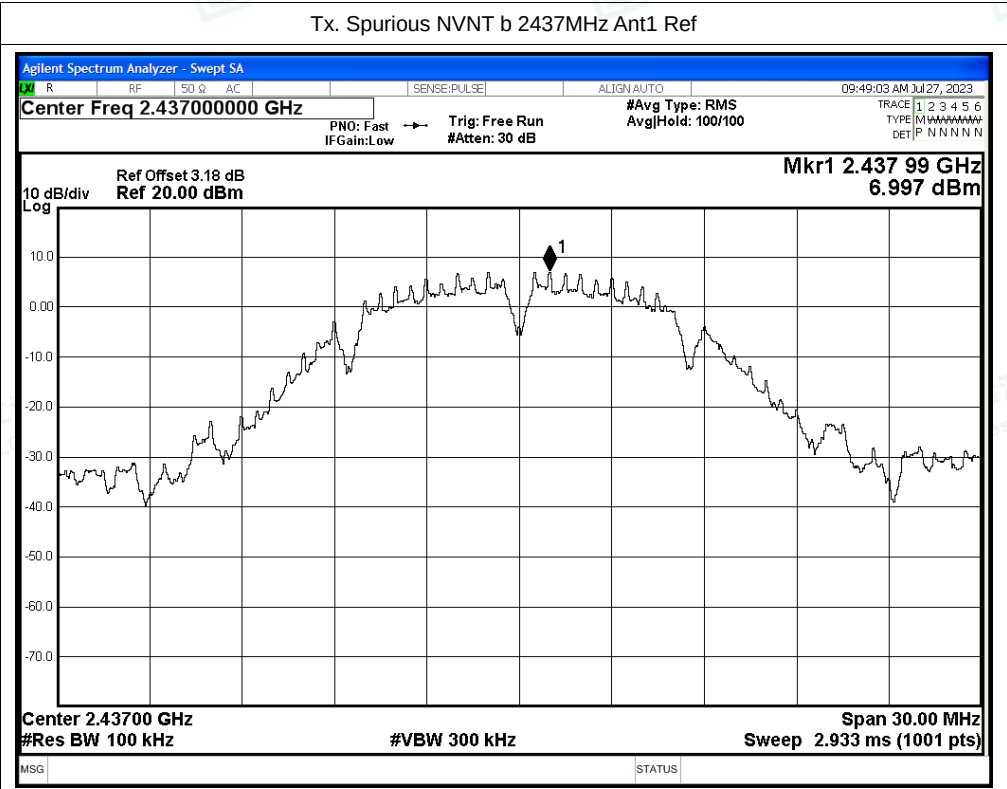


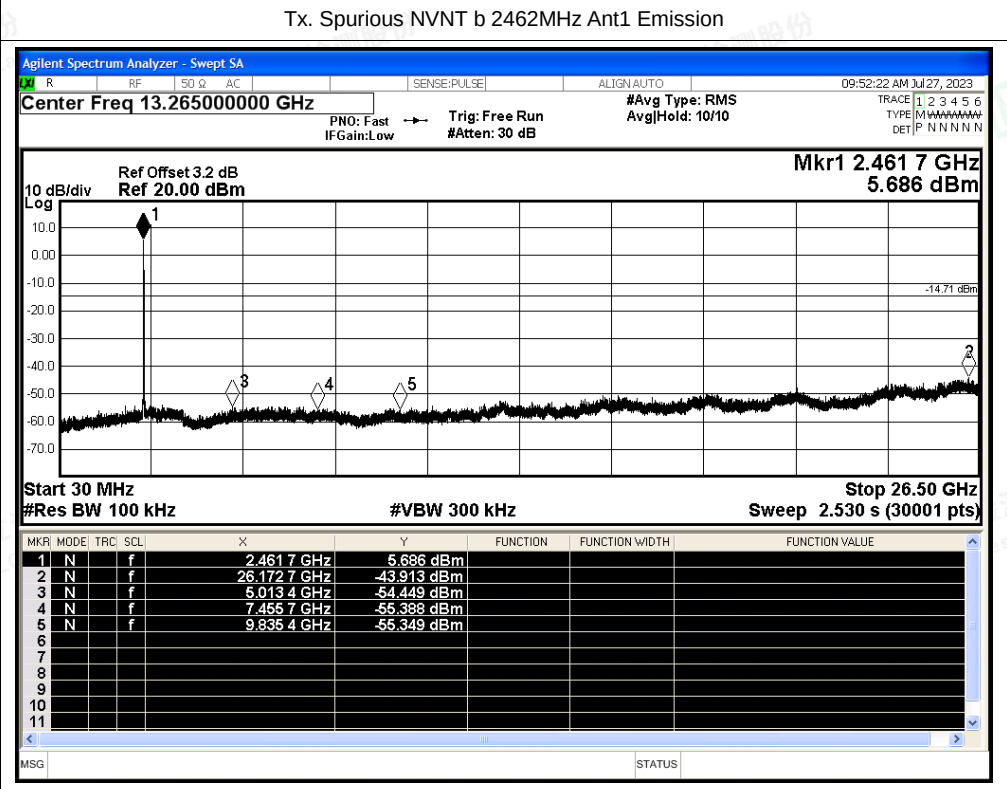
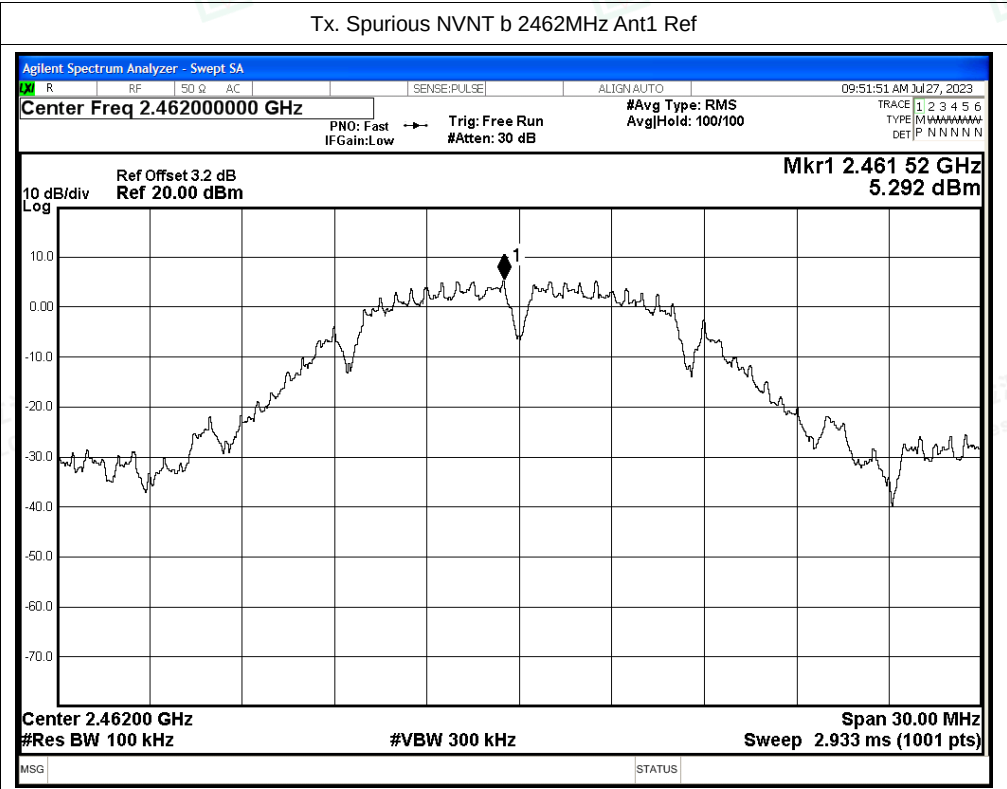
C.5 Conducted RF Spurious Emission

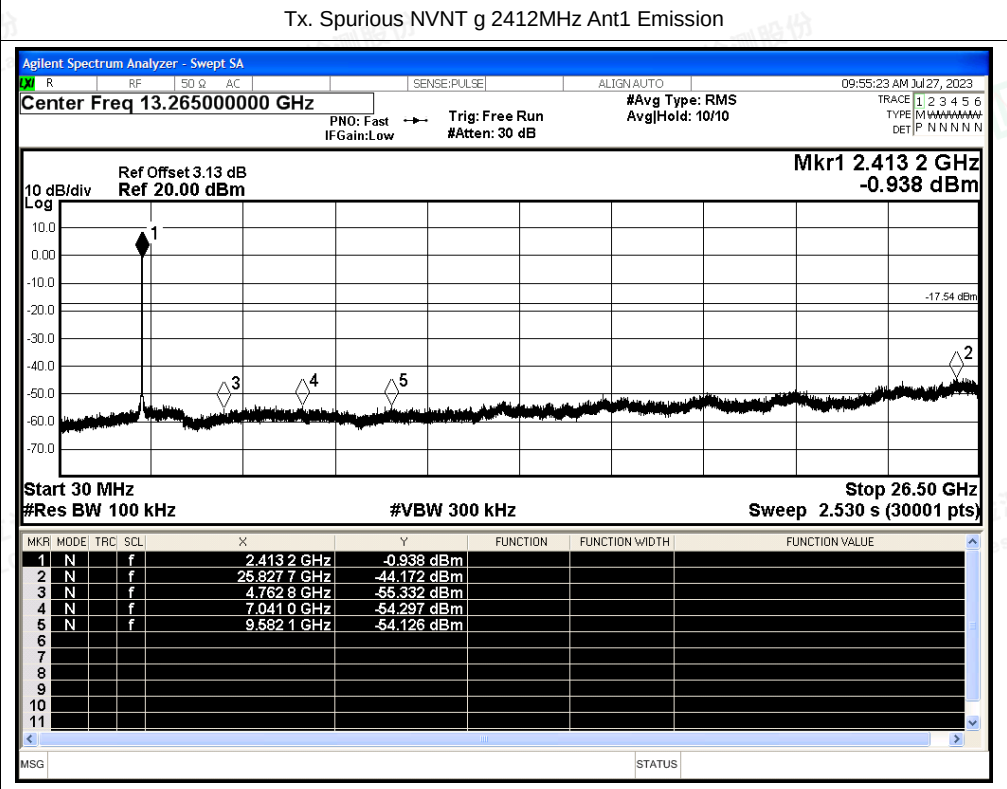
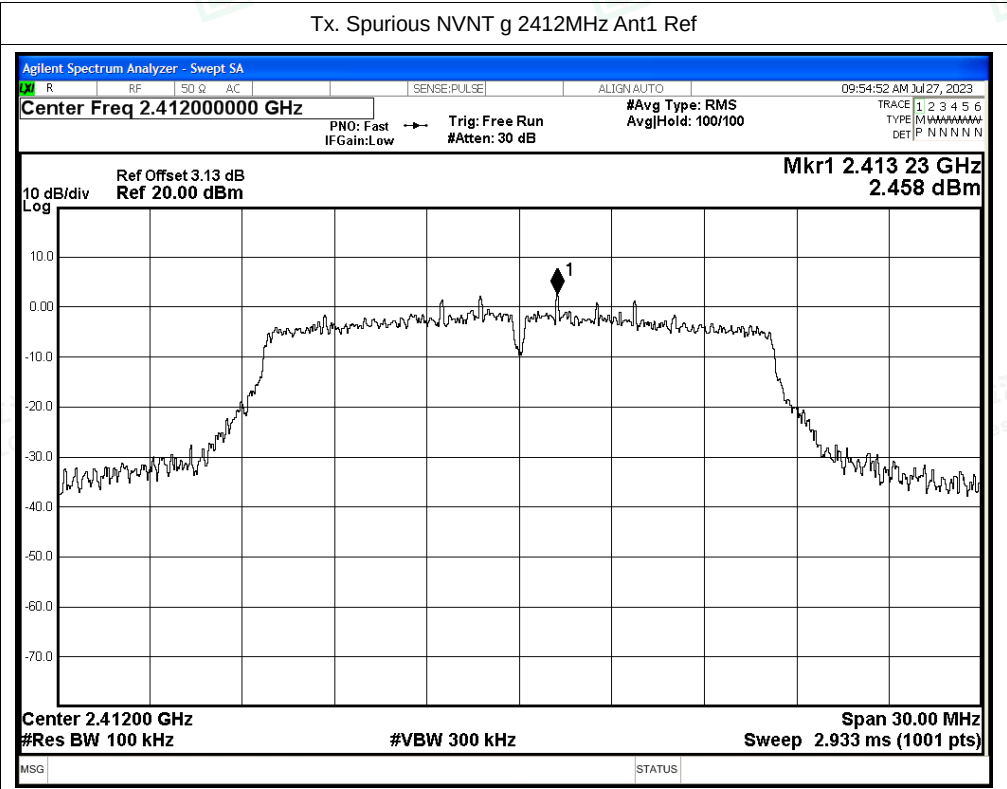
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-52.1	-20	Pass
NVNT	b	2437	Ant1	-51.83	-20	Pass
NVNT	b	2462	Ant1	-49.21	-20	Pass
NVNT	g	2412	Ant1	-46.63	-20	Pass
NVNT	g	2437	Ant1	-48.02	-20	Pass
NVNT	g	2462	Ant1	-47.08	-20	Pass
NVNT	n20	2412	Ant1	-46.76	-20	Pass
NVNT	n20	2437	Ant1	-46.68	-20	Pass
NVNT	n20	2462	Ant1	-46.18	-20	Pass
NVNT	n40	2422	Ant1	-44.02	-20	Pass
NVNT	n40	2437	Ant1	-43.31	-20	Pass
NVNT	n40	2452	Ant1	-43.24	-20	Pass

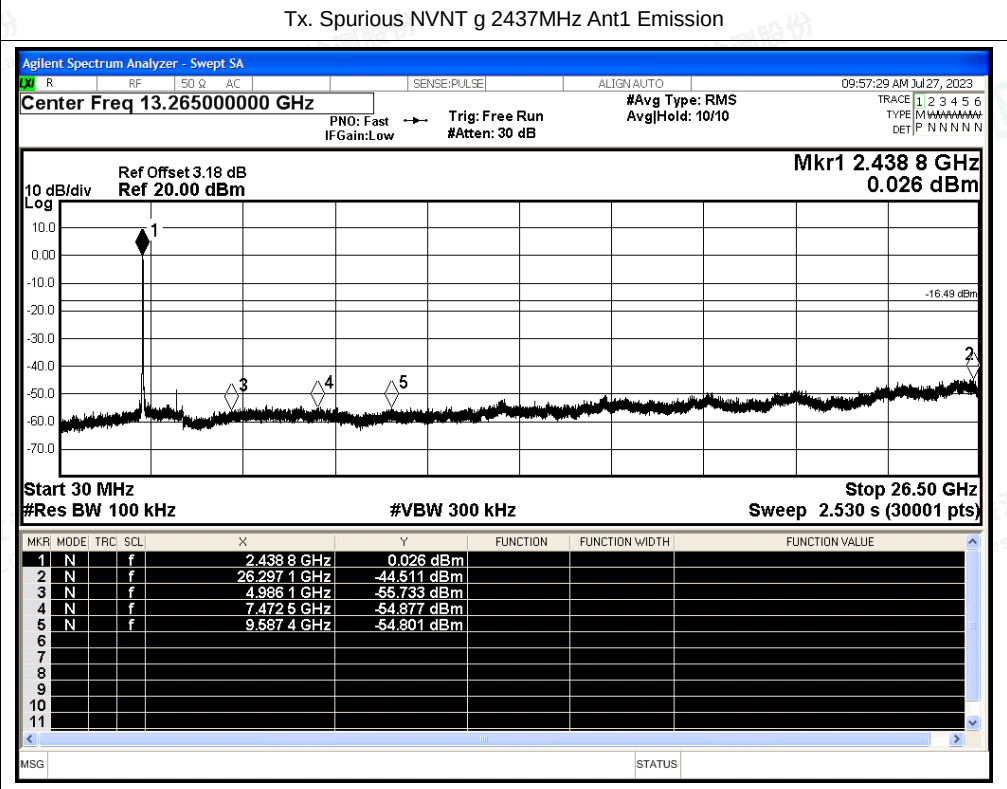
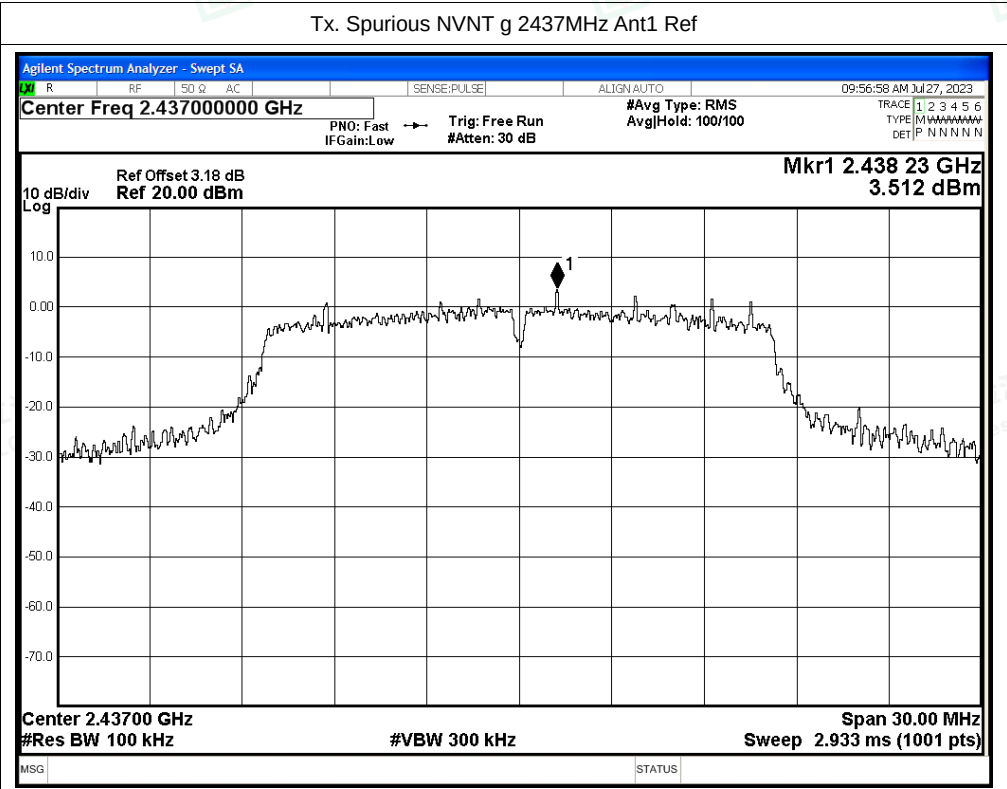


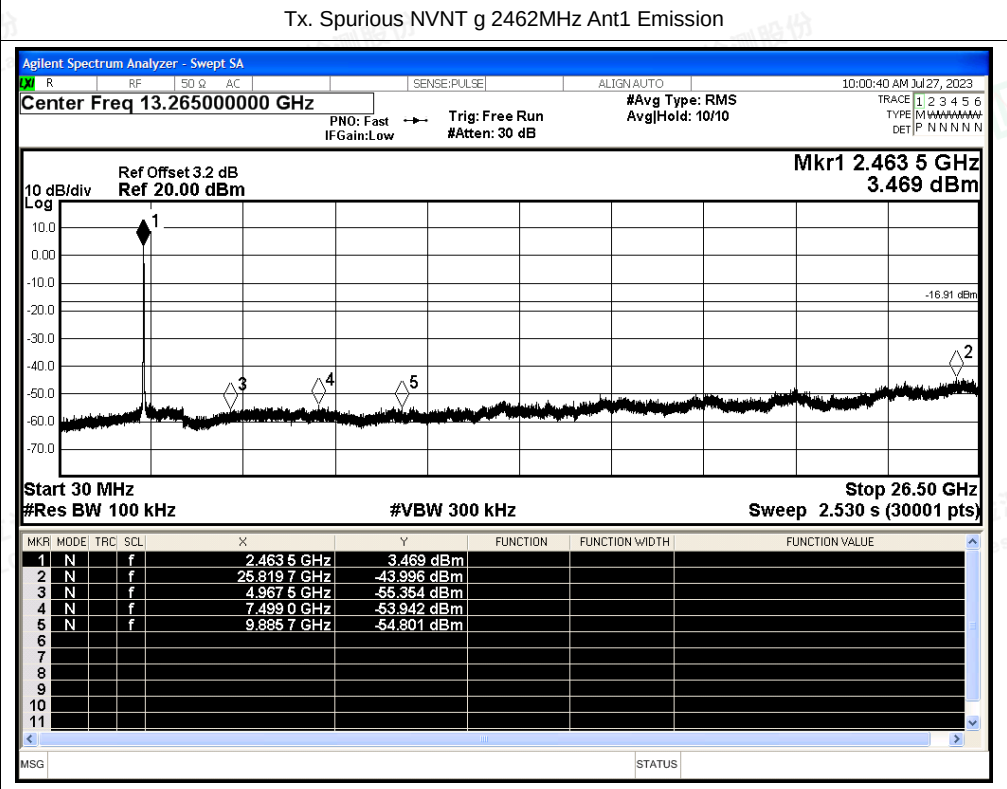
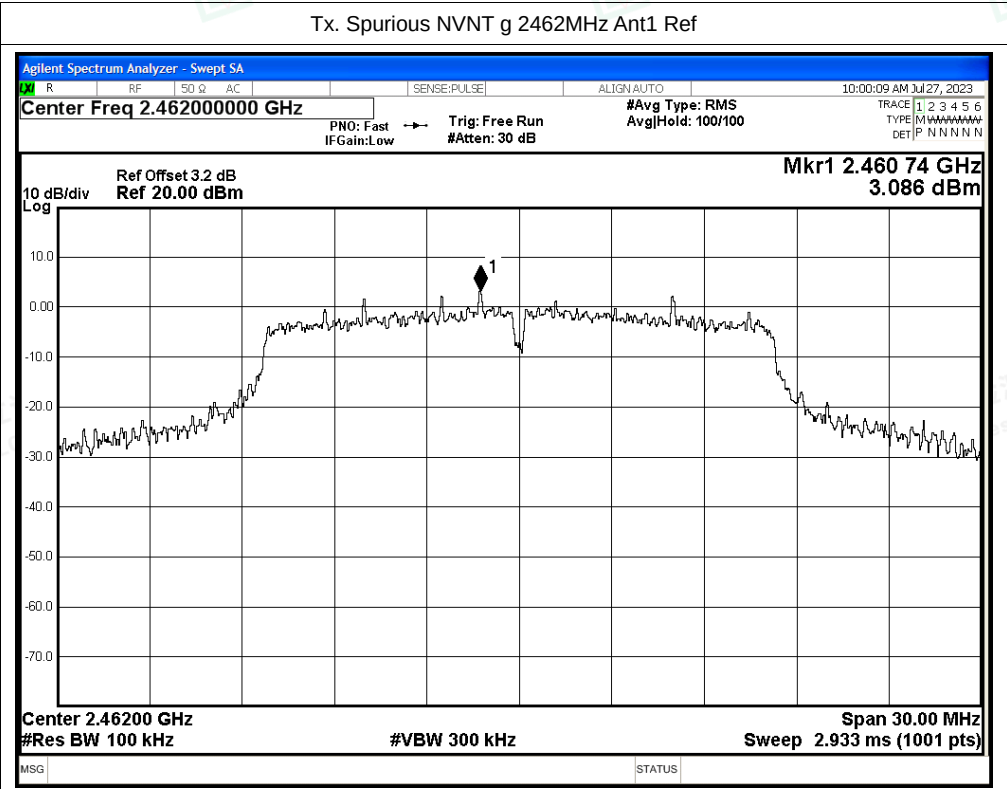


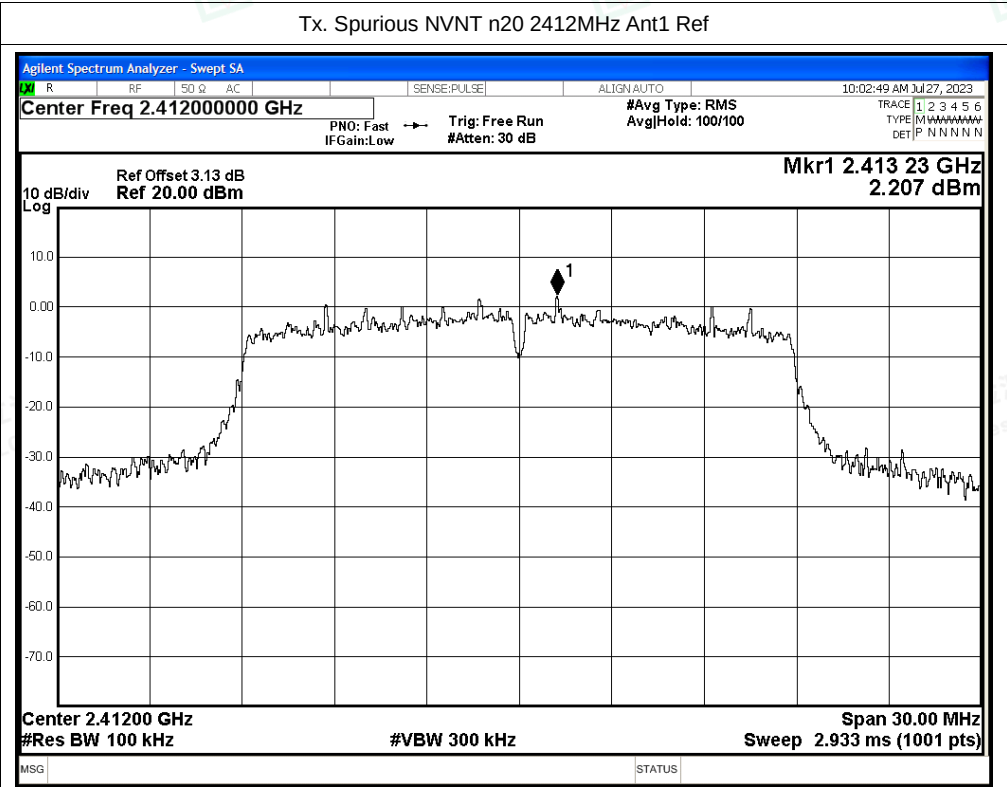




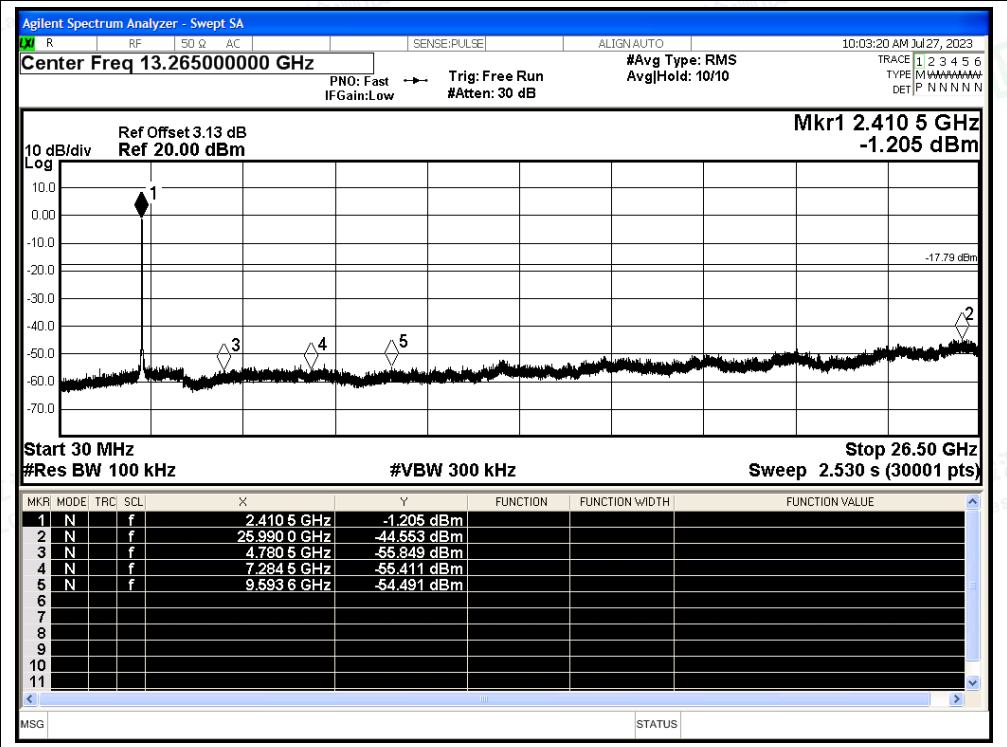


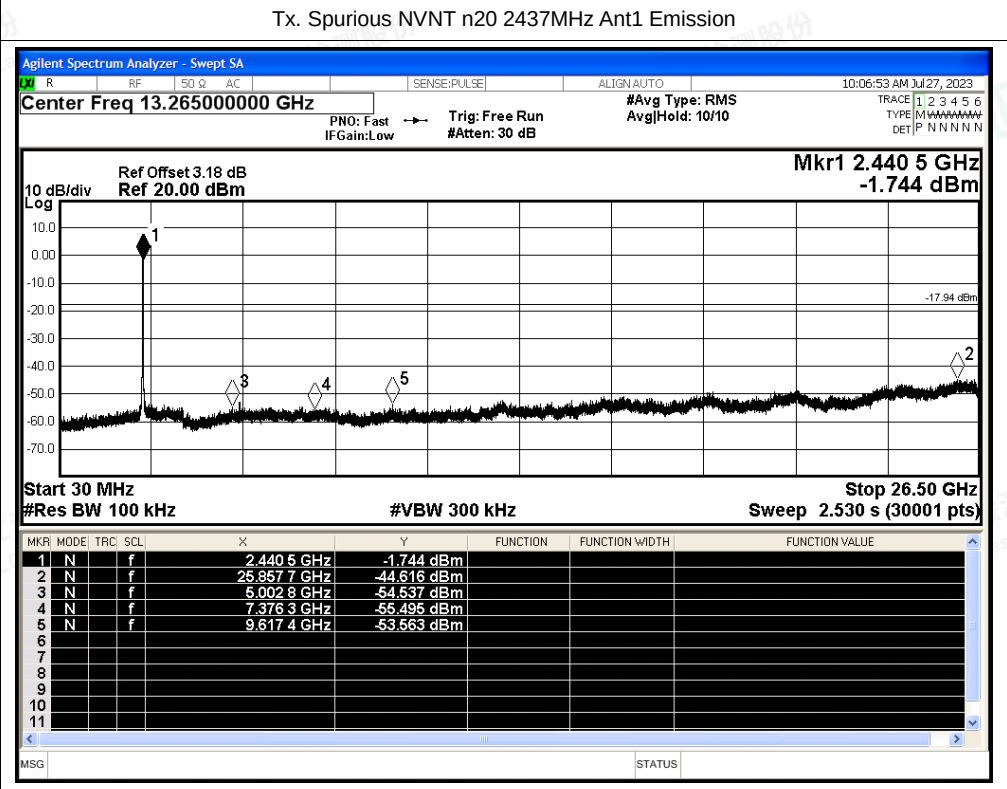
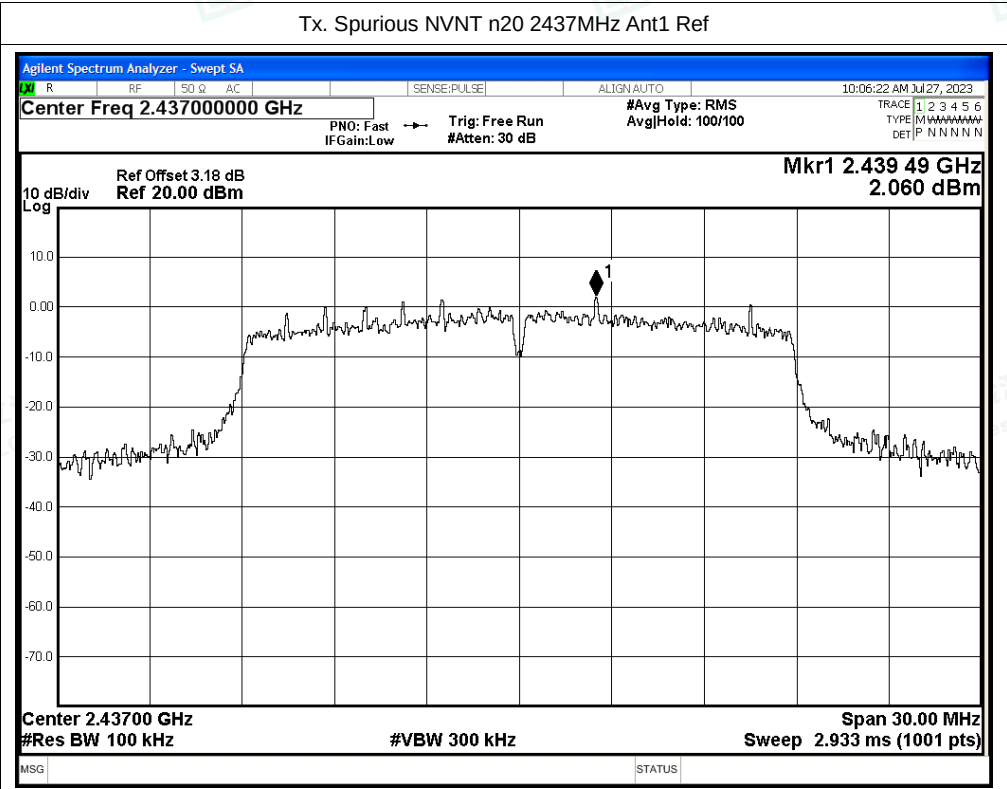


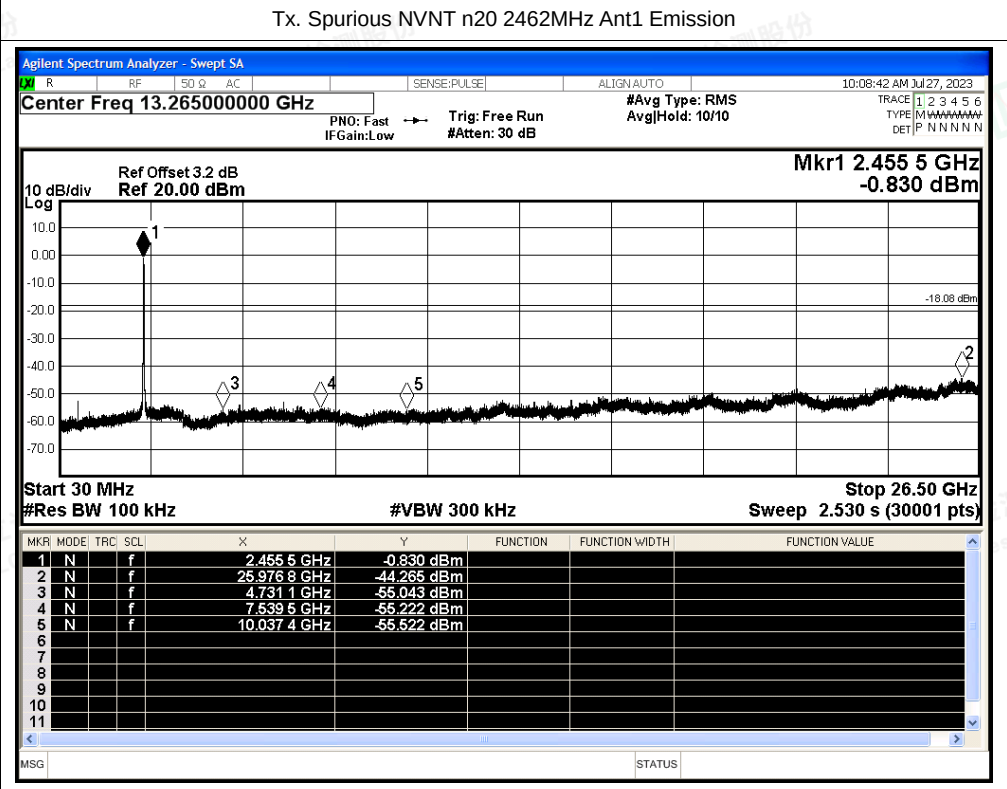
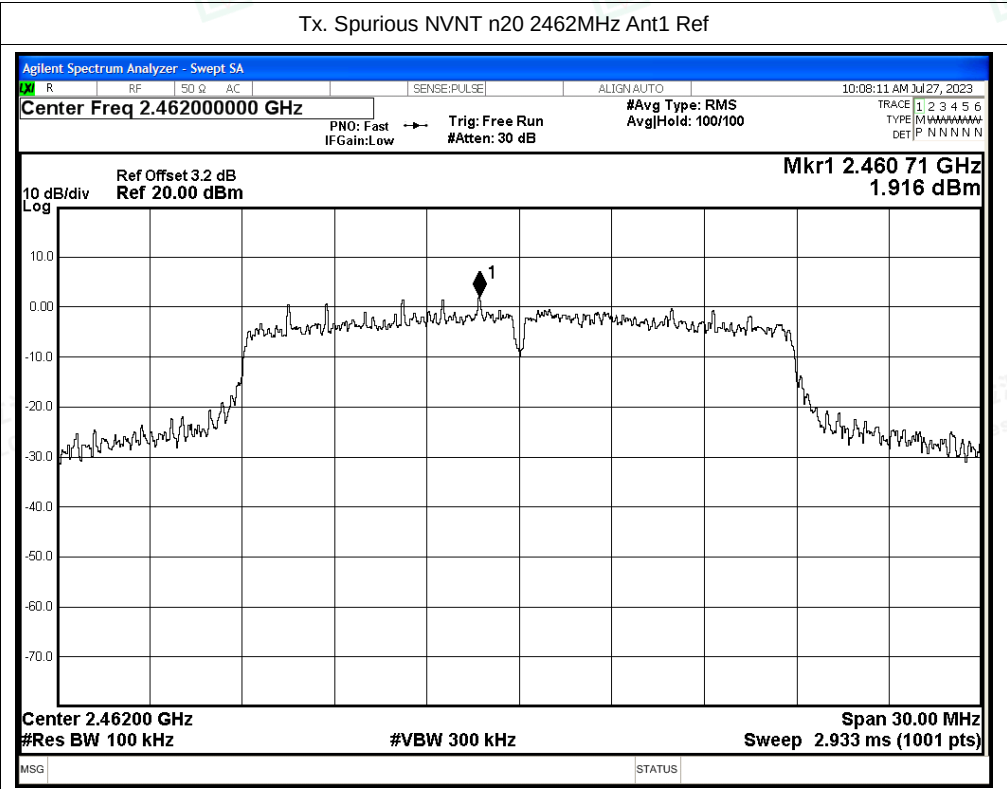


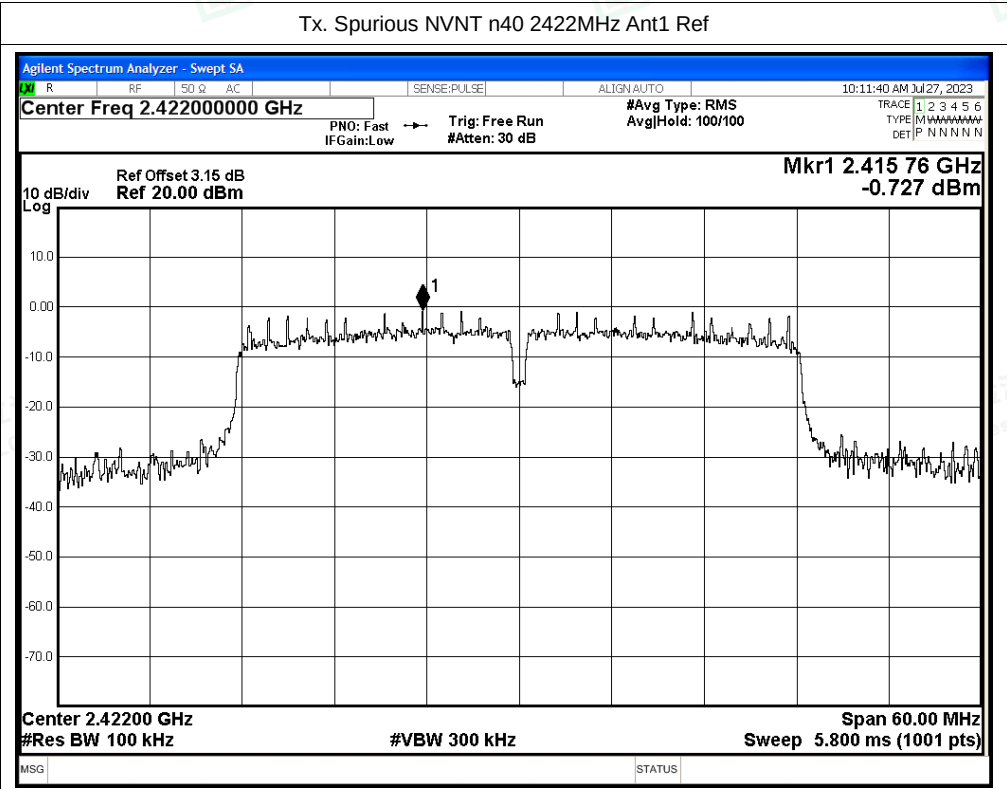


Tx. Spurious NVNT n20 2412MHz Ant1 Emission

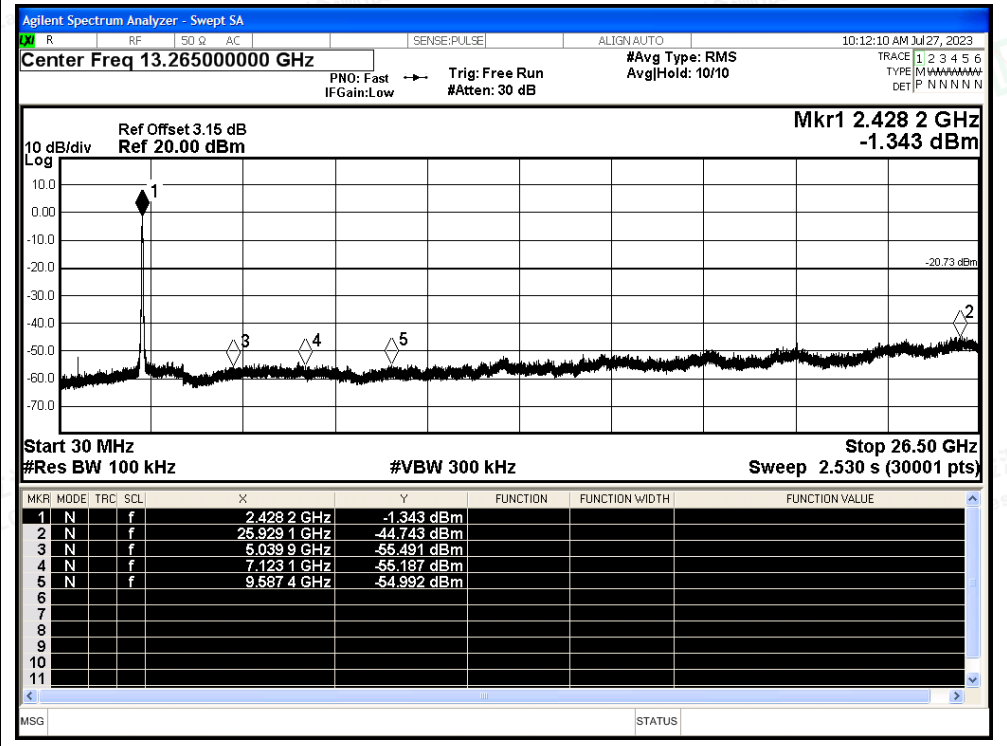


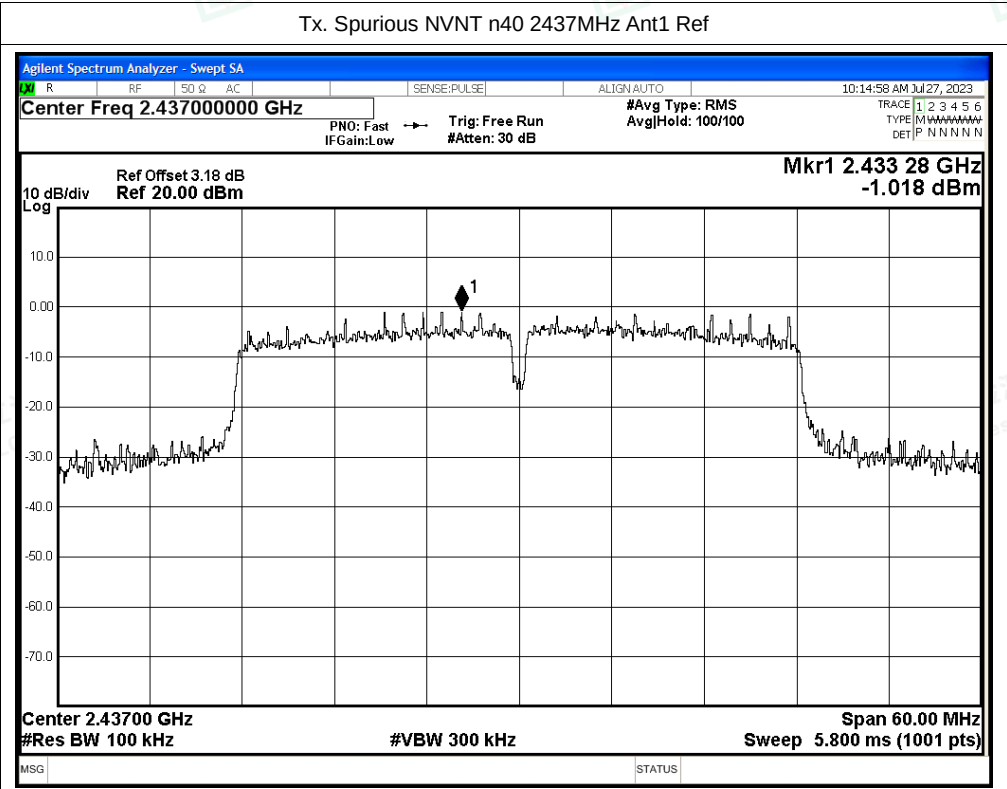




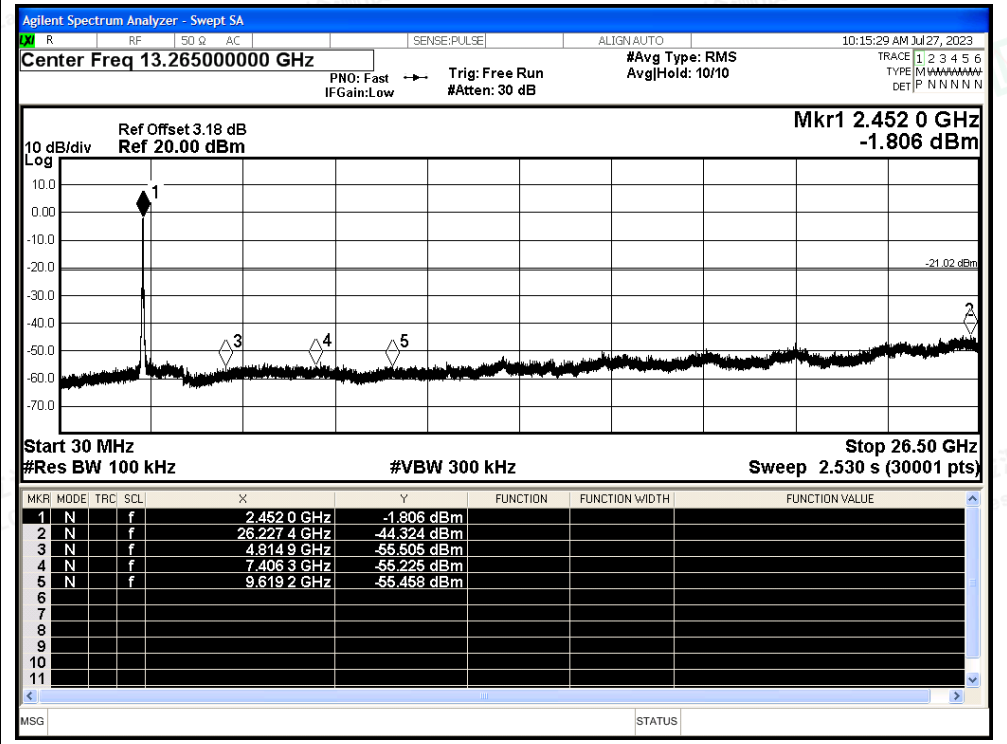


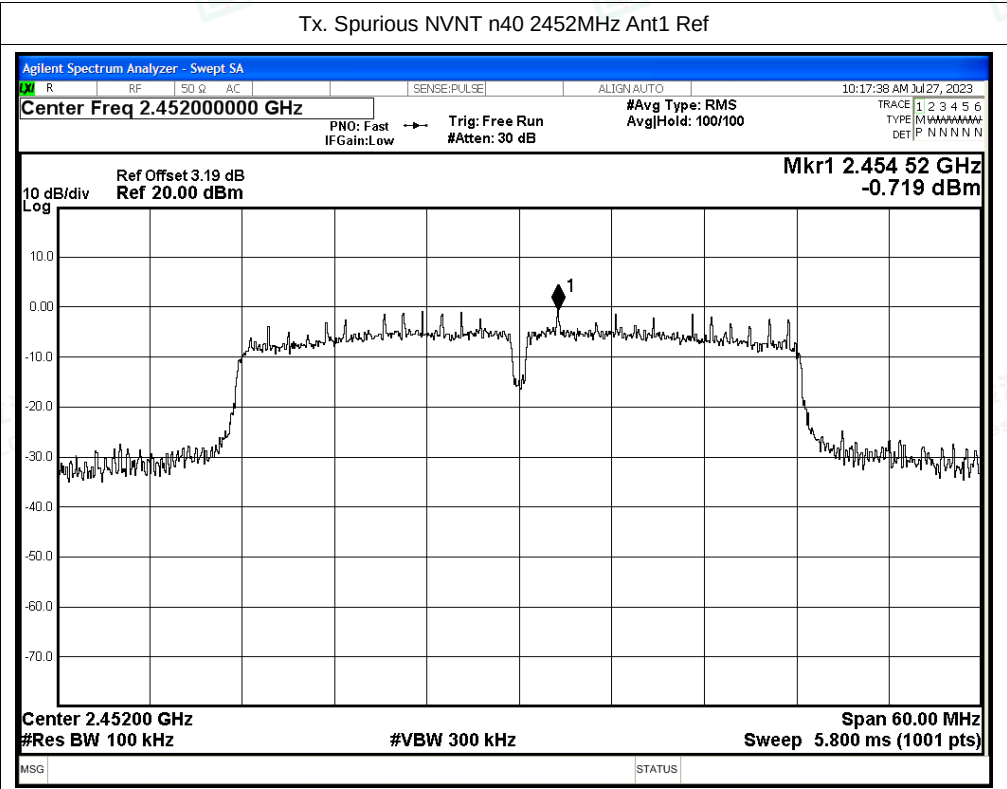
Tx. Spurious NVNT n40 2422MHz Ant1 Emission



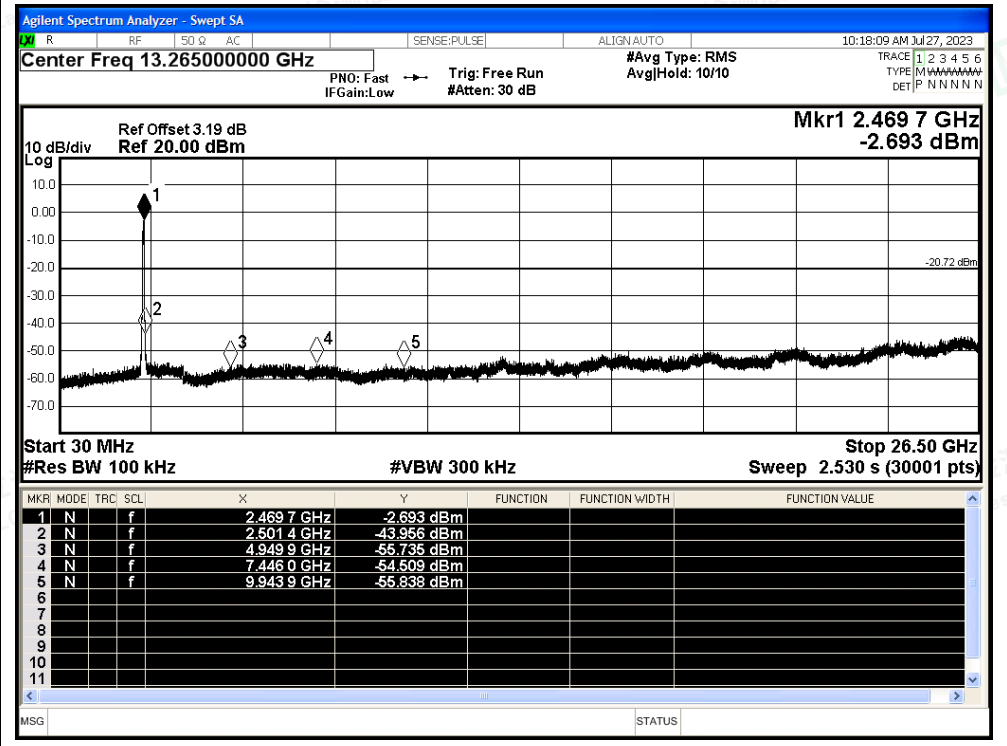


Tx. Spurious NVNT n40 2437MHz Ant1 Emission





Tx. Spurious NVNT n40 2452MHz Ant1 Emission

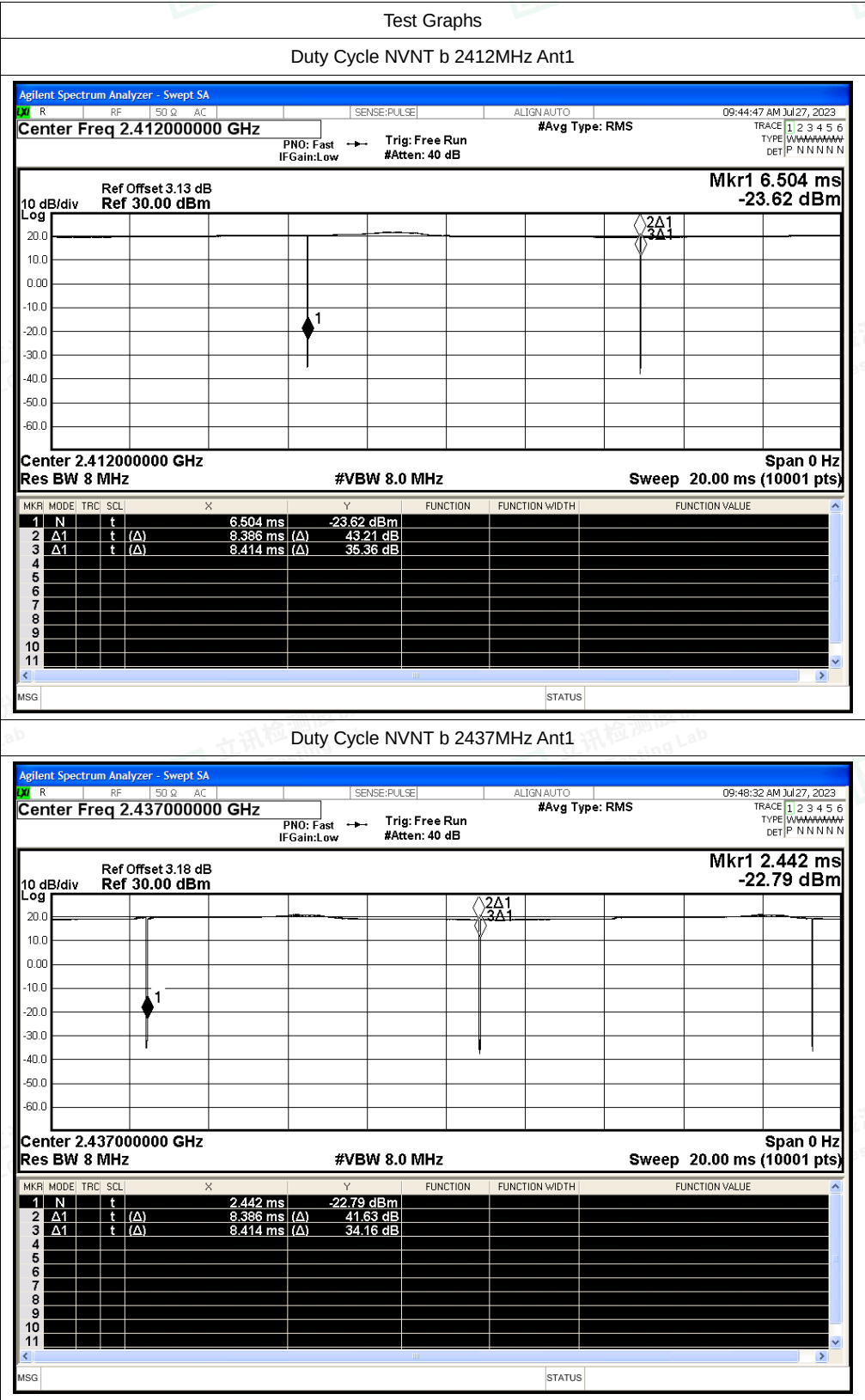


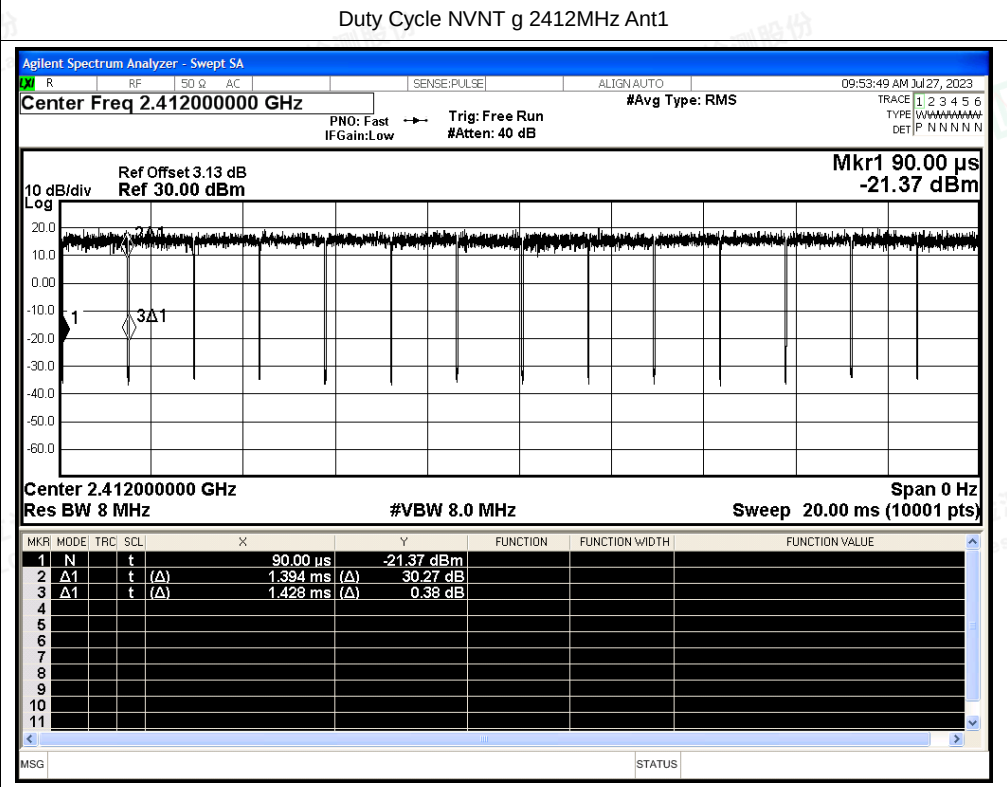
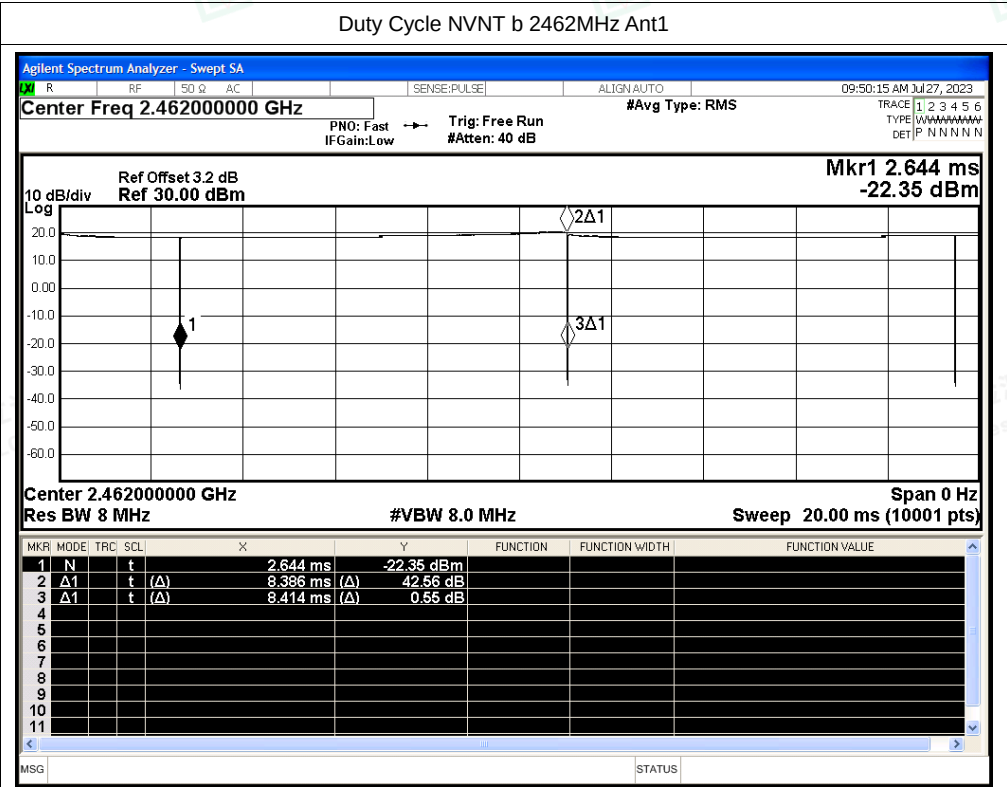


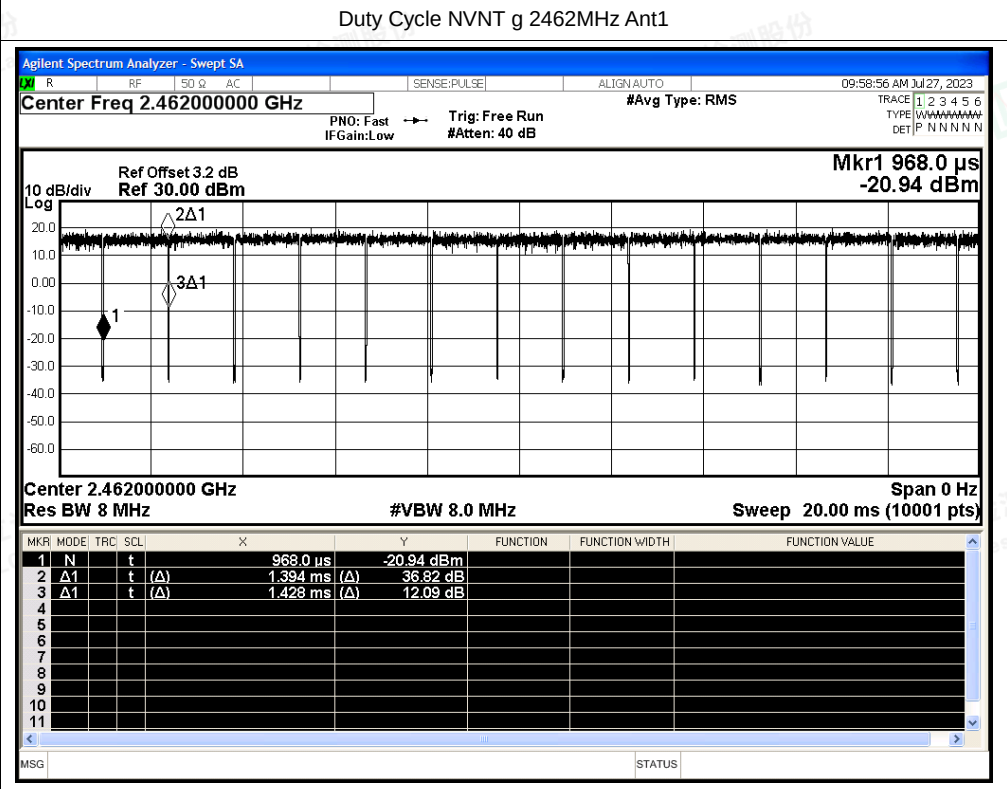
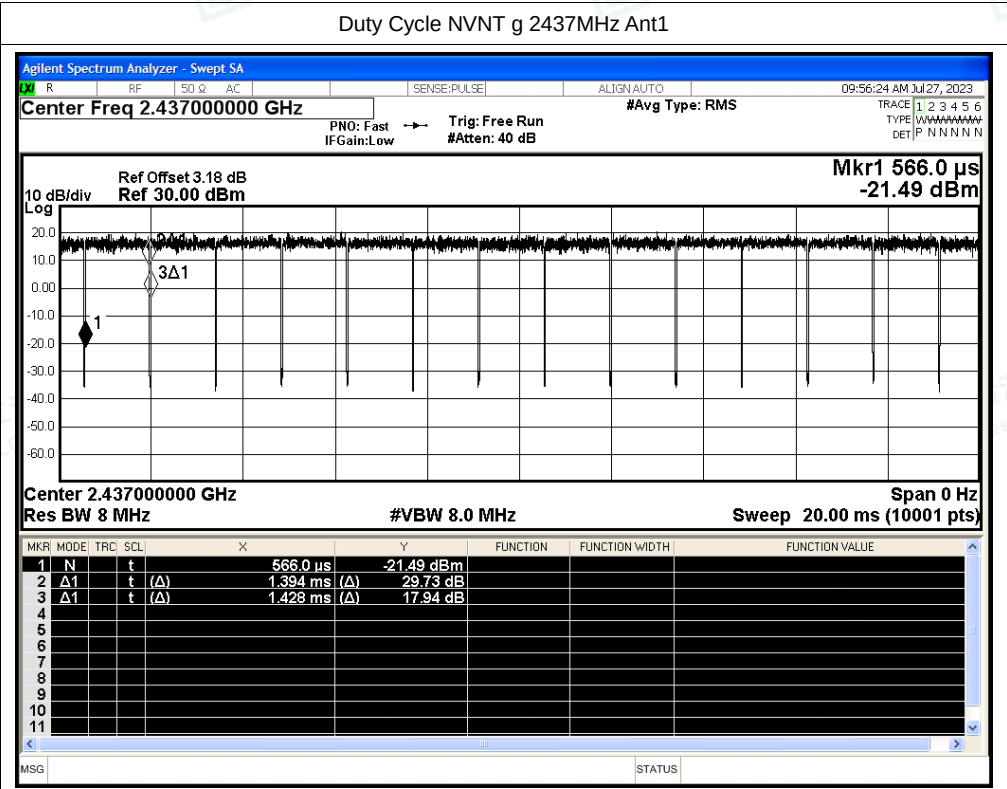
C.6 Duty Cycle

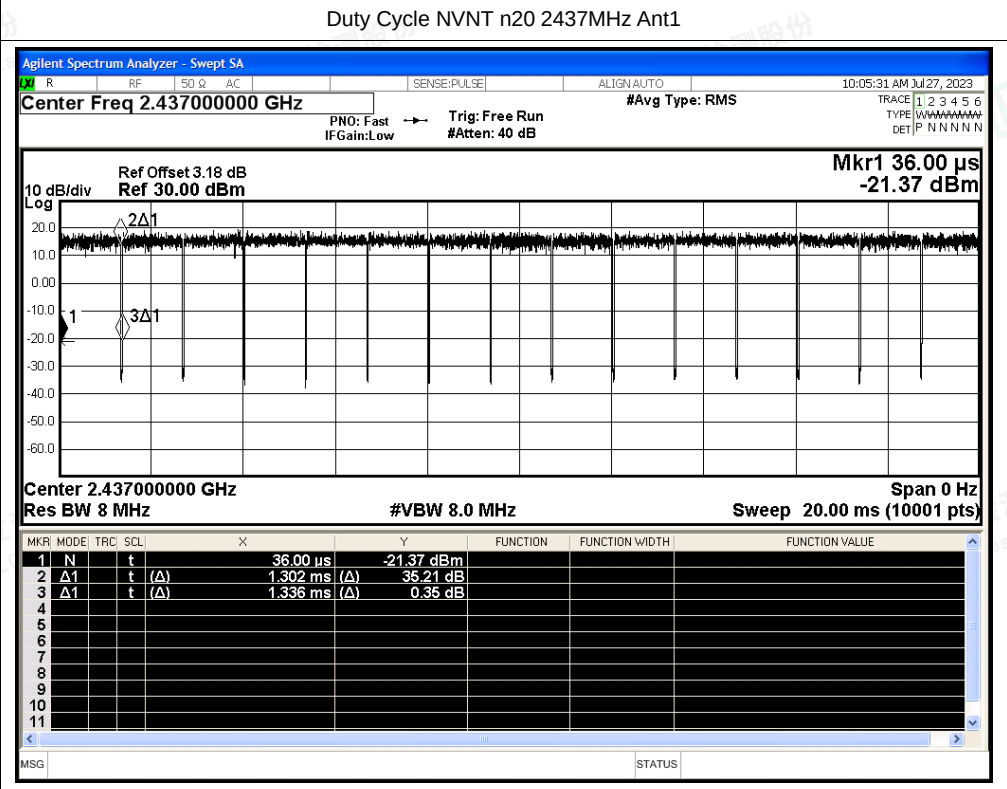
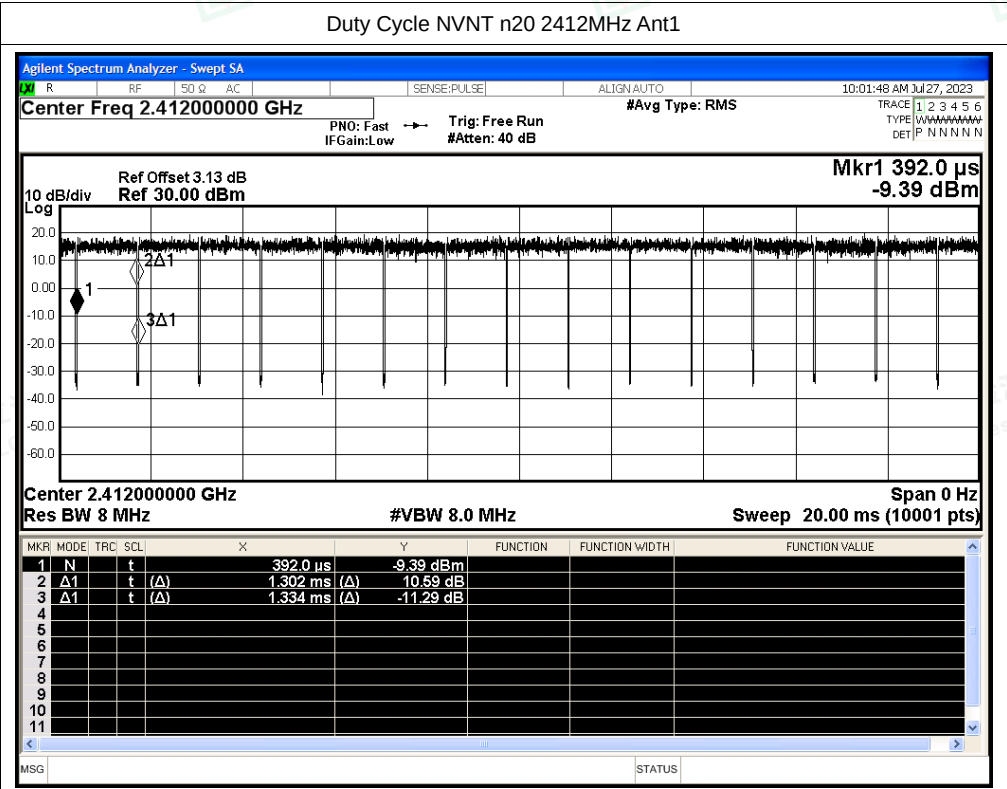
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.67	0	0.12
NVNT	b	2437	Ant1	99.67	0	0.12
NVNT	b	2462	Ant1	99.67	0	0.12
NVNT	g	2412	Ant1	97.62	0.1	0.72
NVNT	g	2437	Ant1	97.62	0.1	0.72
NVNT	g	2462	Ant1	97.62	0.1	0.72
NVNT	n20	2412	Ant1	97.6	0.11	0.77
NVNT	n20	2437	Ant1	97.46	0.11	0.77
NVNT	n20	2462	Ant1	97.46	0.11	0.77
NVNT	n40	2422	Ant1	95.03	0.22	1.54
NVNT	n40	2437	Ant1	95.31	0.21	1.54
NVNT	n40	2452	Ant1	95.31	0.21	1.54

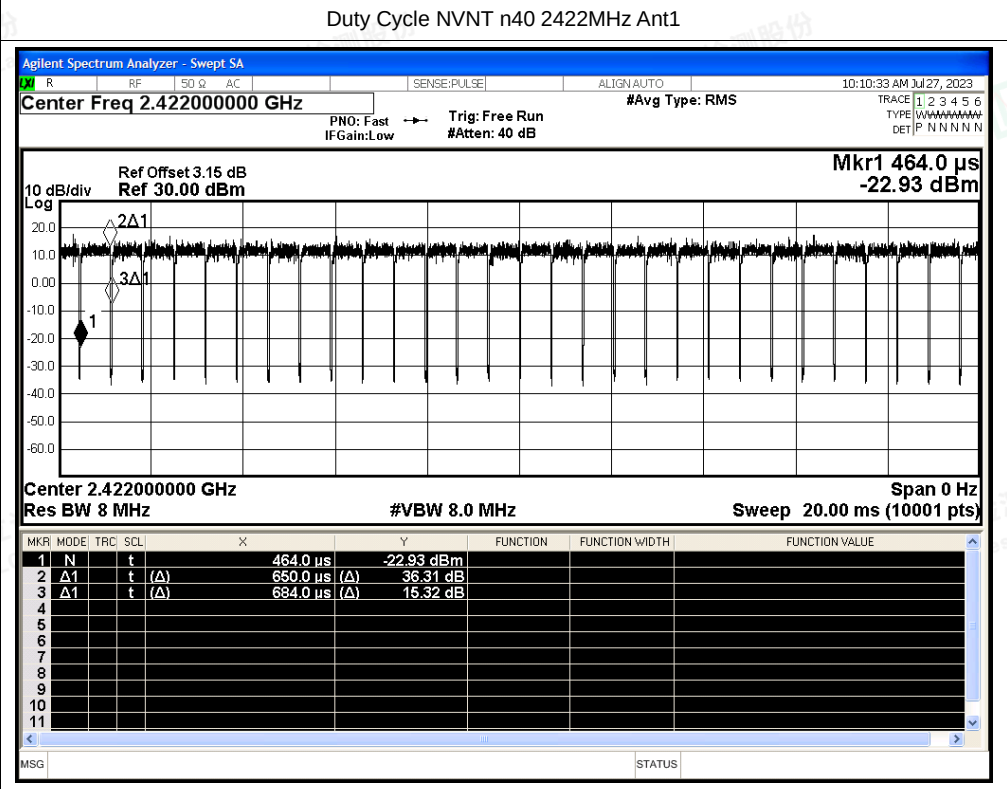
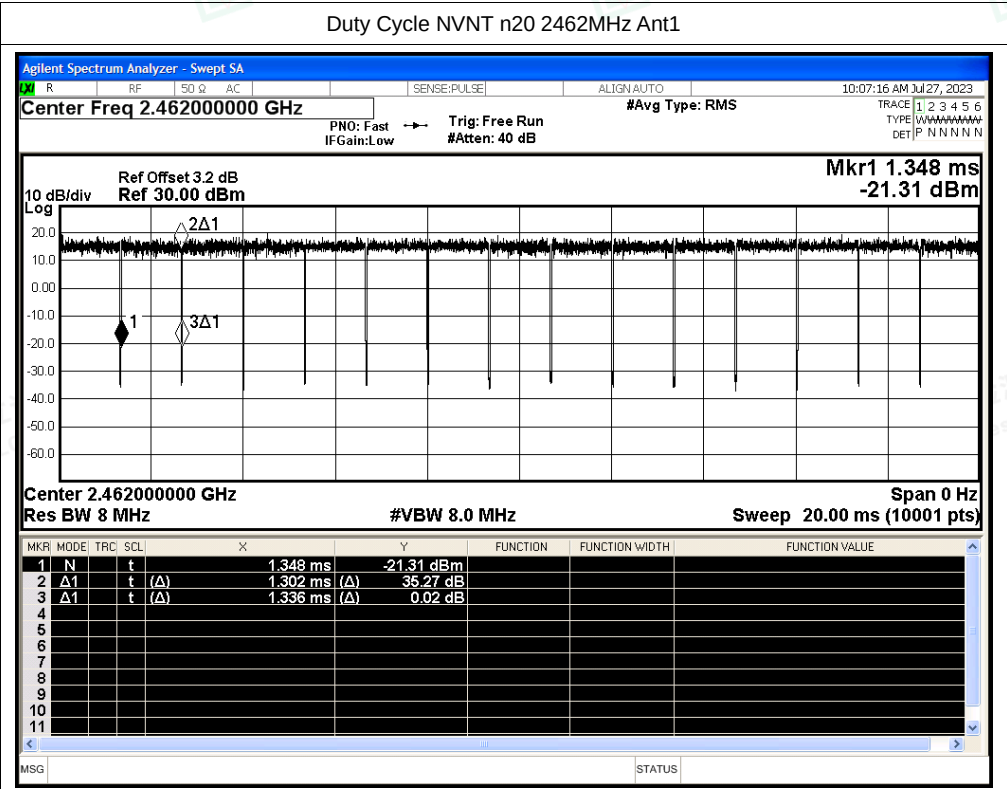


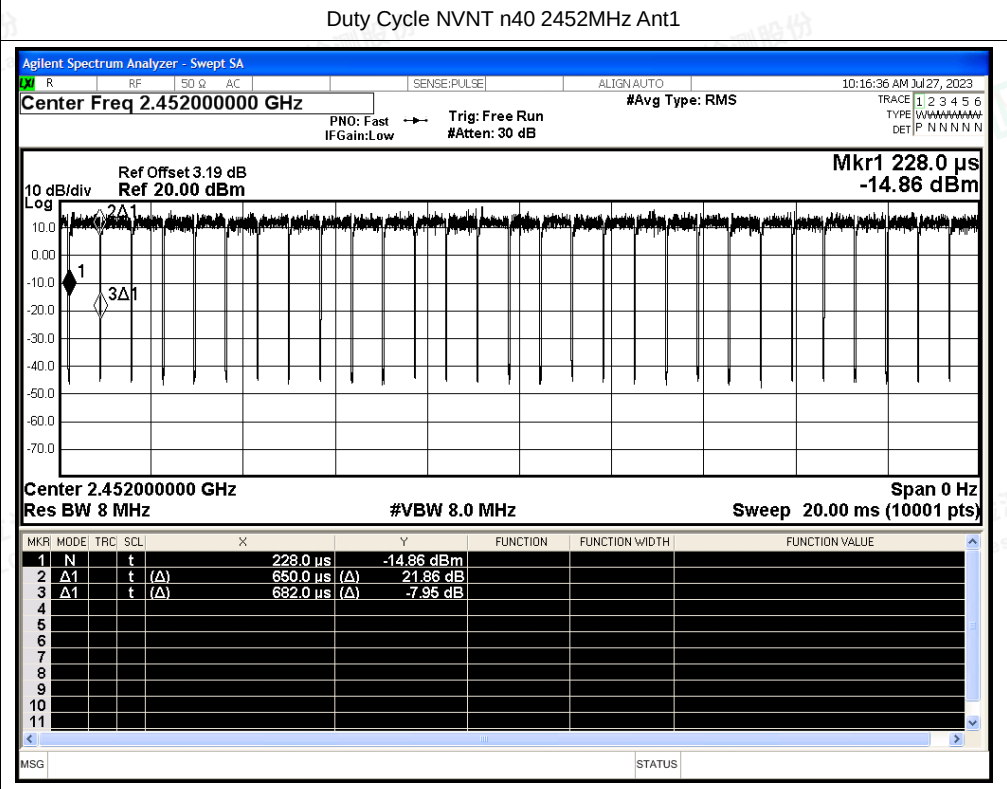
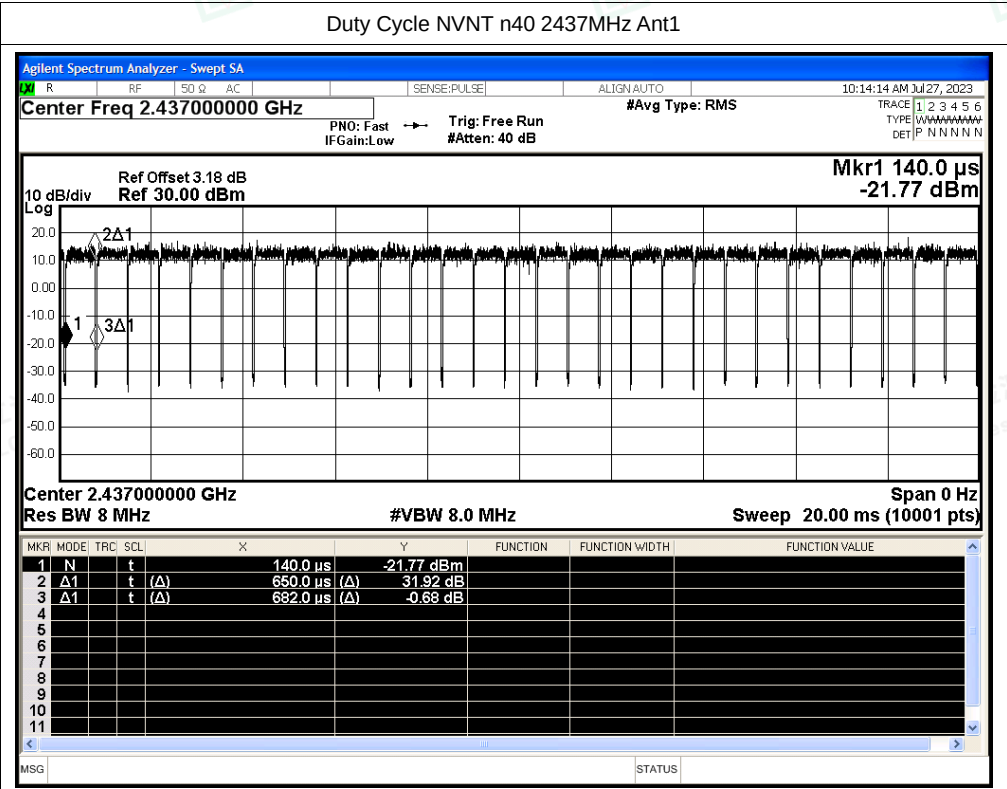














C.7 Restrict Band

Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	b	2412	Ant1	2310	-49.05	2	48.21	Peak	74	Pass
NVNT	b	2412	Ant1	2310	-56.88	2	40.38	Average	54	Pass
NVNT	b	2412	Ant1	2386.752	-40.98	2	56.28	Peak	74	Pass
NVNT	b	2412	Ant1	2386.986	-47.12	2	50.14	Average	54	Pass
NVNT	b	2412	Ant1	2390	-45.03	2	52.23	Peak	74	Pass
NVNT	b	2412	Ant1	2390	-50.94	2	46.32	Average	54	Pass
NVNT	b	2462	Ant1	2483.5	-48.99	2	48.27	Peak	74	Pass
NVNT	b	2462	Ant1	2483.5	-56.46	2	40.8	Average	54	Pass
NVNT	b	2462	Ant1	2499.523	-46.82	2	50.44	Peak	74	Pass
NVNT	b	2462	Ant1	2498.304	-56.34	2	40.92	Average	54	Pass
NVNT	b	2462	Ant1	2500	-48.62	2	48.64	Peak	74	Pass
NVNT	b	2462	Ant1	2500	-56.4	2	40.86	Average	54	Pass
NVNT	g	2412	Ant1	2310	-49.01	2	48.25	Peak	74	Pass
NVNT	g	2412	Ant1	2310	-55.8	2	41.46	Average	54	Pass
NVNT	g	2412	Ant1	2389.911	-30.76	2	66.5	Peak	74	Pass
NVNT	g	2412	Ant1	2389.911	-44.24	2	53.02	Average	54	Pass
NVNT	g	2412	Ant1	2390	-34.96	2	62.3	Peak	74	Pass
NVNT	g	2412	Ant1	2390	-44.22	2	53.04	Average	54	Pass
NVNT	g	2462	Ant1	2483.5	-49.17	2	48.09	Peak	74	Pass
NVNT	g	2462	Ant1	2483.5	-55.07	2	42.19	Average	54	Pass
NVNT	g	2462	Ant1	2485.425	-45.02	2	52.24	Peak	74	Pass
NVNT	g	2462	Ant1	2485.955	-54.96	2	42.3	Average	54	Pass
NVNT	g	2462	Ant1	2500	-47.18	2	50.08	Peak	74	Pass
NVNT	g	2462	Ant1	2500	-55.35	2	41.91	Average	54	Pass
NVNT	n20	2412	Ant1	2310	-50.34	2	46.92	Peak	74	Pass
NVNT	n20	2412	Ant1	2310	-56.66	2	40.6	Average	54	Pass
NVNT	n20	2412	Ant1	2352.588	-46.11	2	51.15	Peak	74	Pass
NVNT	n20	2412	Ant1	2388.624	-55.19	2	42.07	Average	54	Pass
NVNT	n20	2412	Ant1	2390	-47.36	2	49.9	Peak	74	Pass
NVNT	n20	2412	Ant1	2390	-55.22	2	42.04	Average	54	Pass
NVNT	n20	2462	Ant1	2483.5	-45.09	2	52.17	Peak	74	Pass
NVNT	n20	2462	Ant1	2483.5	-55	2	42.26	Average	54	Pass
NVNT	n20	2462	Ant1	2483.517	-45.09	2	52.17	Peak	74	Pass
NVNT	n20	2462	Ant1	2485.213	-54.76	2	42.5	Average	54	Pass
NVNT	n20	2462	Ant1	2500	-47.34	2	49.92	Peak	74	Pass
NVNT	n20	2462	Ant1	2500	-55.3	2	41.96	Average	54	Pass
NVNT	n40	2422	Ant1	2310	-49.46	2	47.8	Peak	74	Pass



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

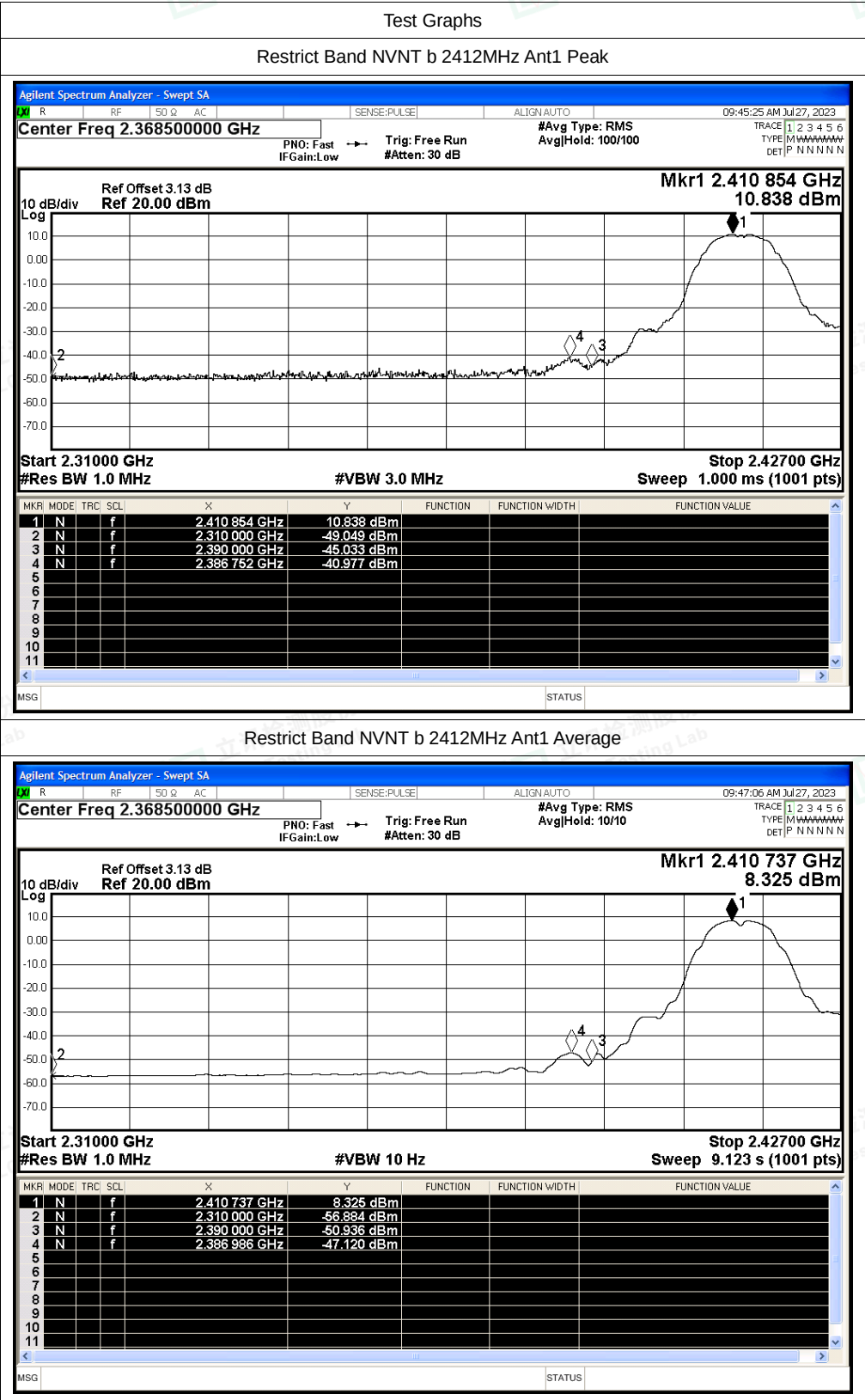
Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

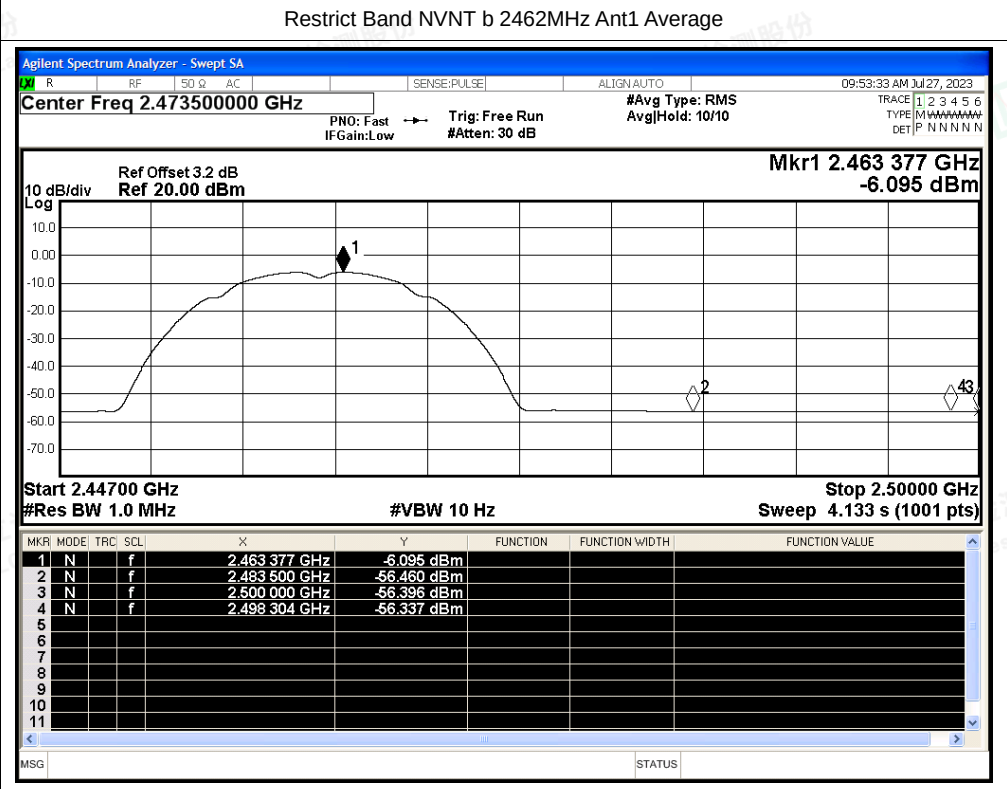
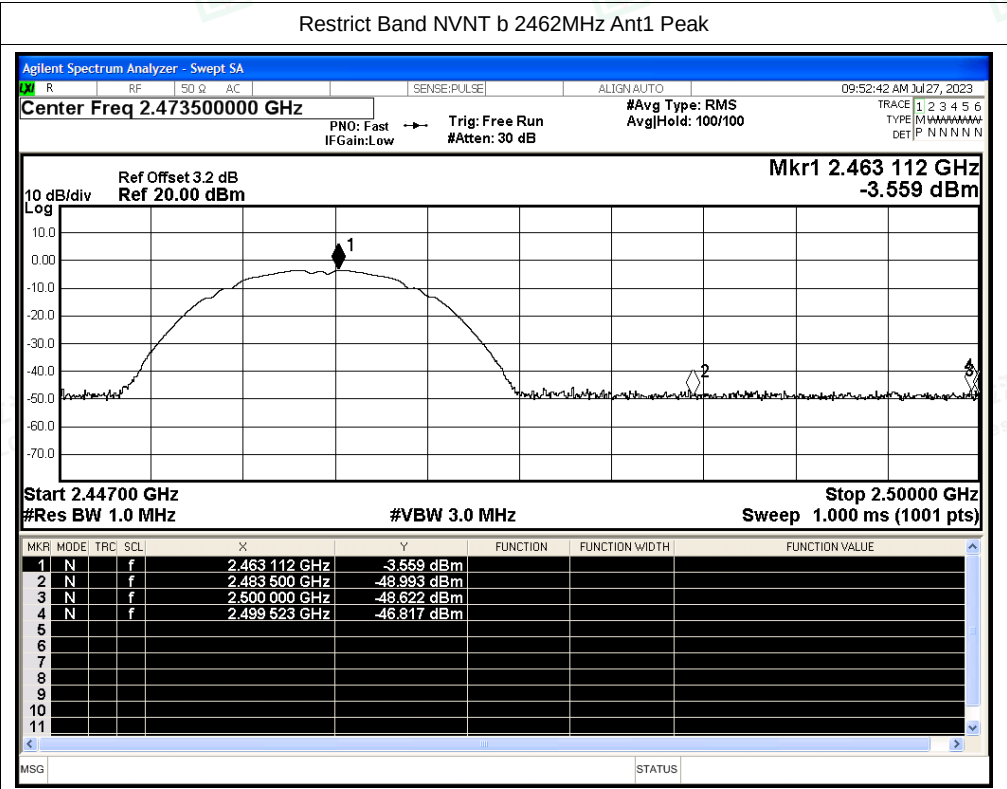
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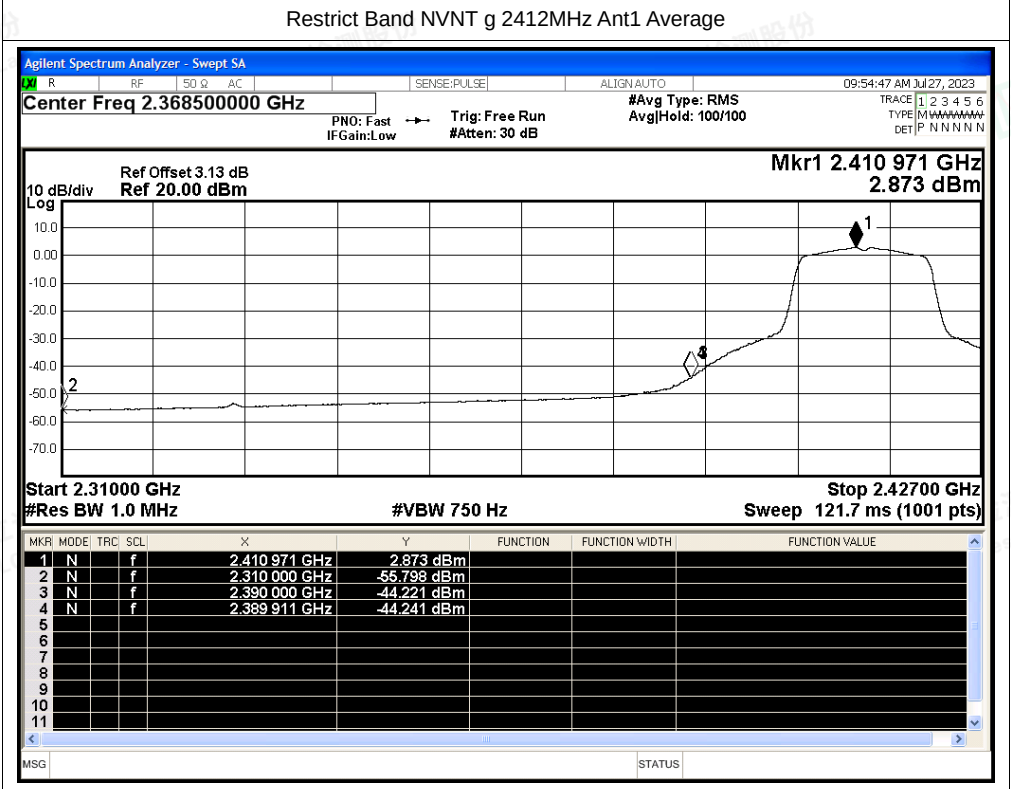
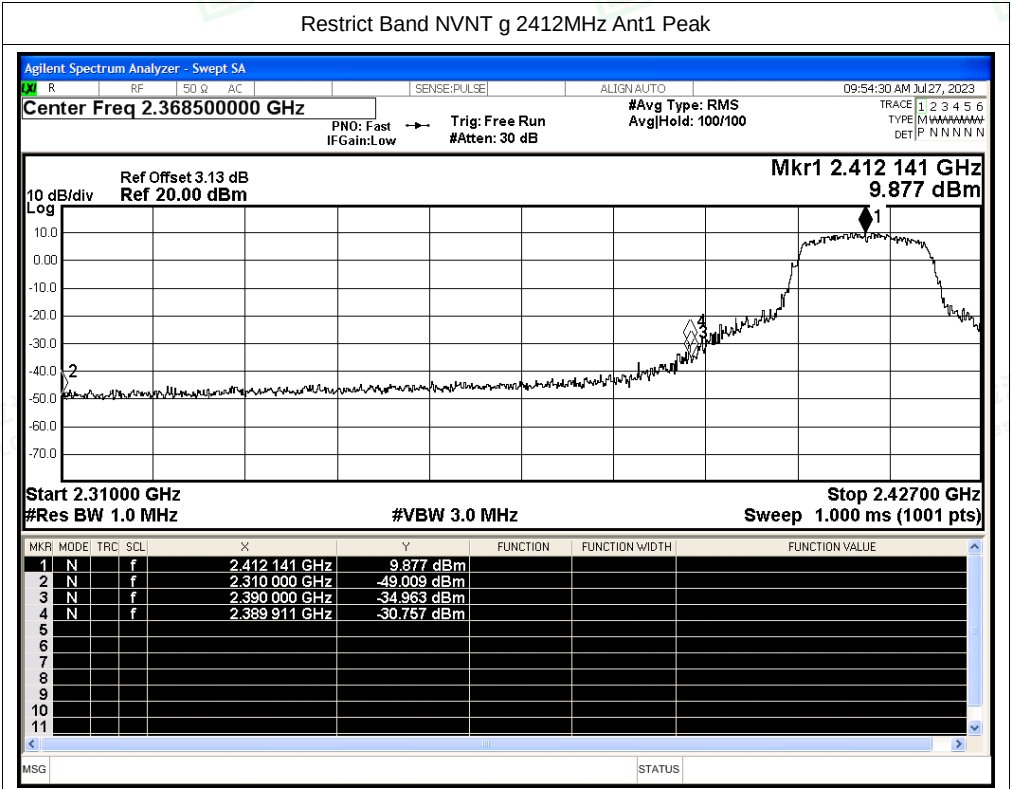


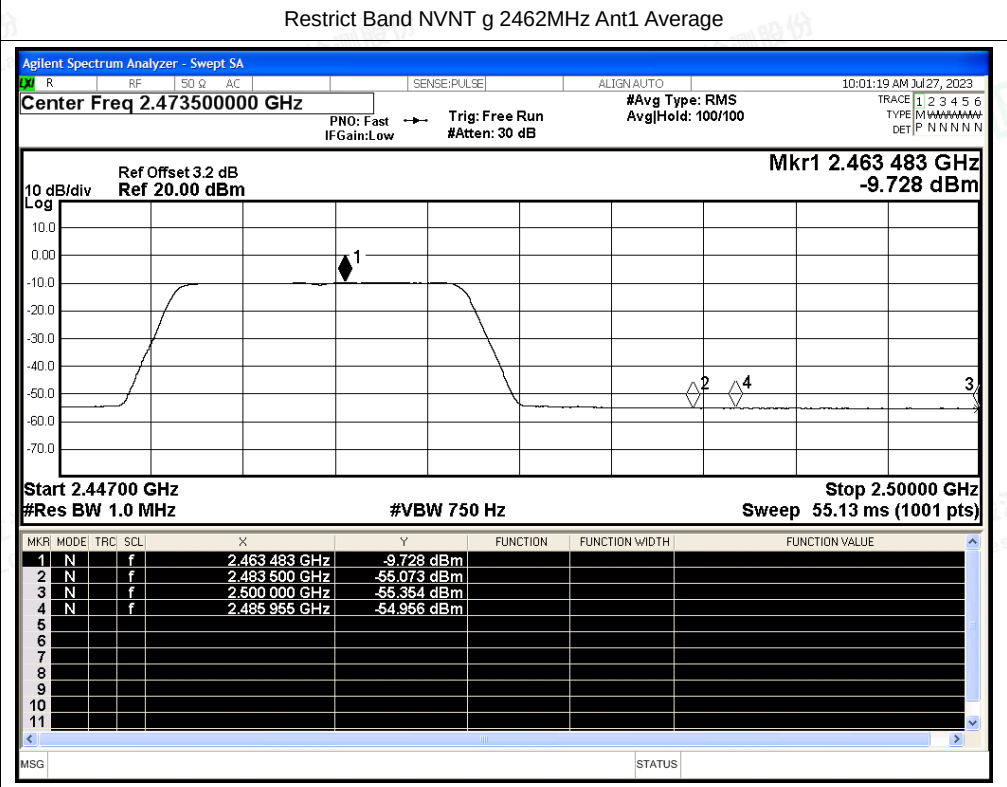
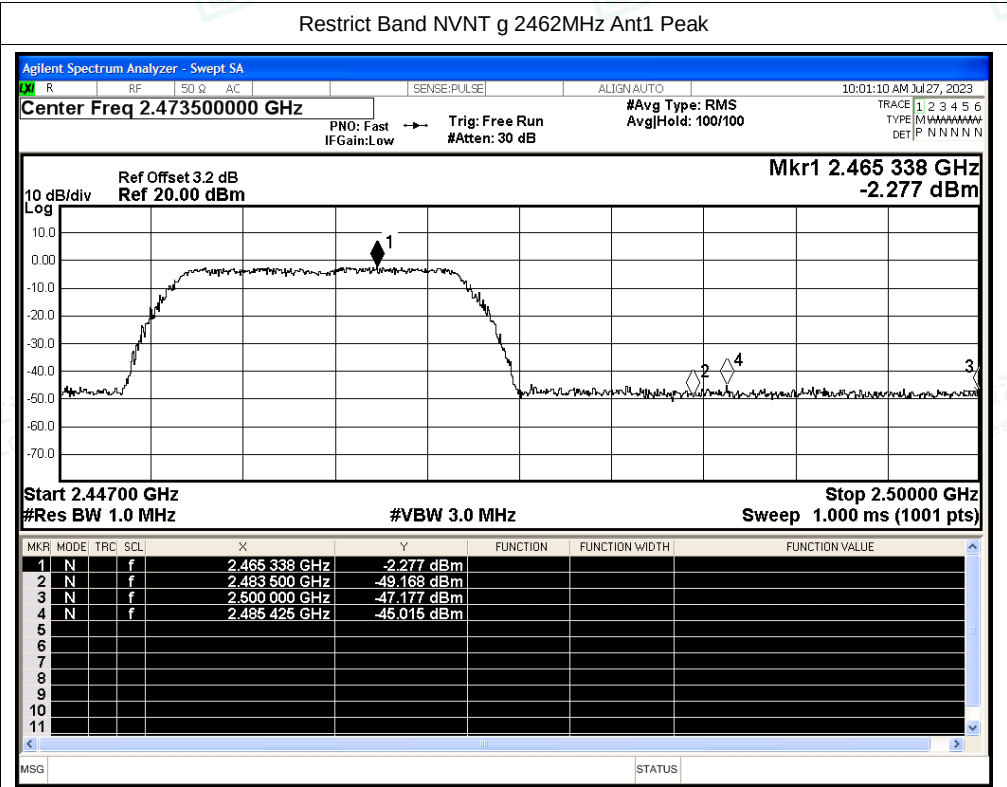
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NVNT	n40	2422	Ant1	2389.662	-54.57	2	42.69	Average	54	Pass
NVNT	n40	2422	Ant1	2390	-47.47	2	49.79	Peak	74	Pass
NVNT	n40	2422	Ant1	2390	-54.98	2	42.28	Average	54	Pass
NVNT	n40	2452	Ant1	2483.5	-44.92	2	52.34	Peak	74	Pass
NVNT	n40	2452	Ant1	2483.5	-54.53	2	42.73	Average	54	Pass
NVNT	n40	2452	Ant1	2486.038	-44.16	2	53.1	Peak	74	Pass
NVNT	n40	2452	Ant1	2488.534	-54.54	2	42.72	Average	54	Pass
NVNT	n40	2452	Ant1	2500	-48.8	2	48.46	Peak	74	Pass
NVNT	n40	2452	Ant1	2500	-55.04	2	42.22	Average	54	Pass

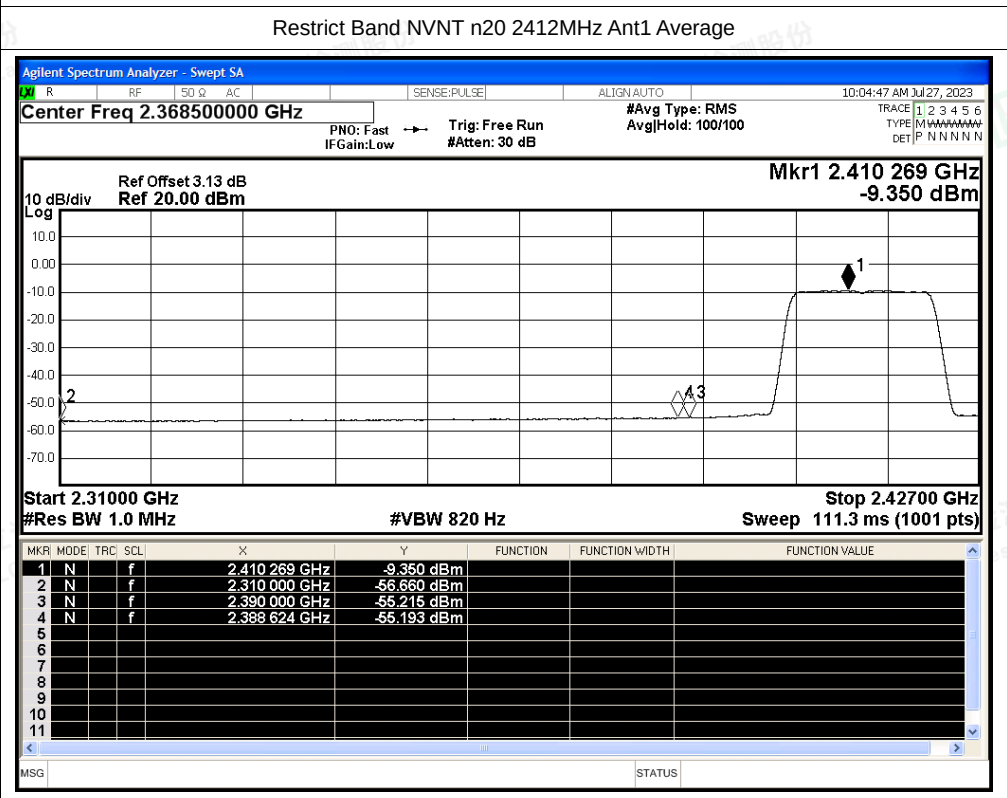
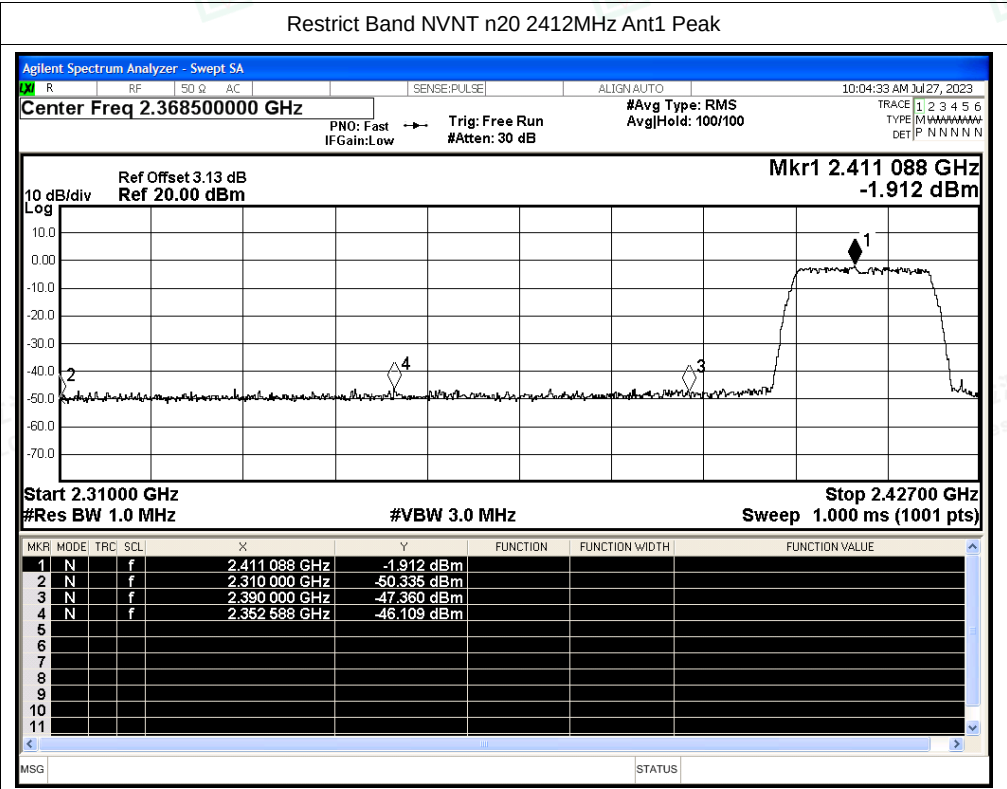


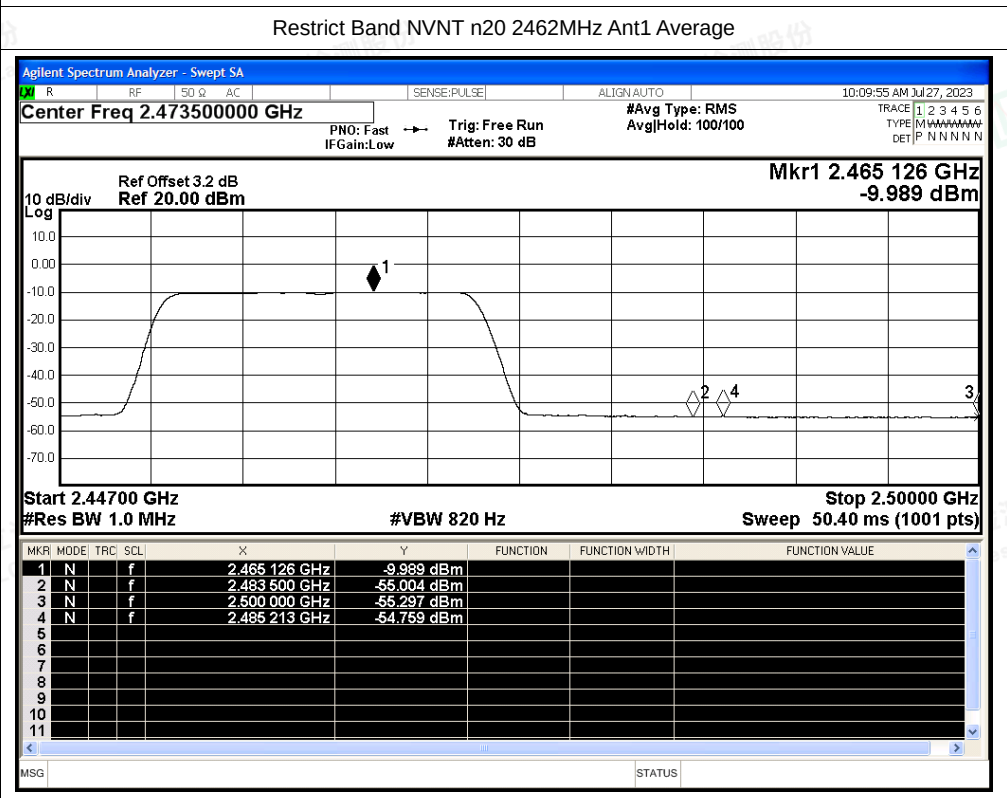
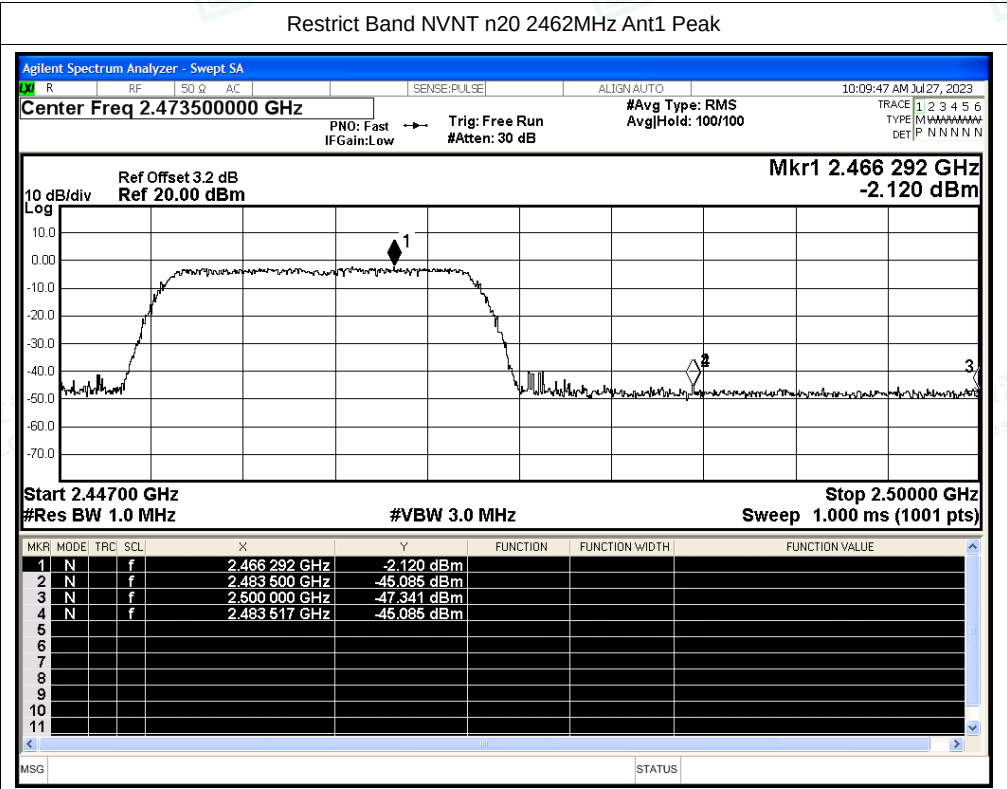


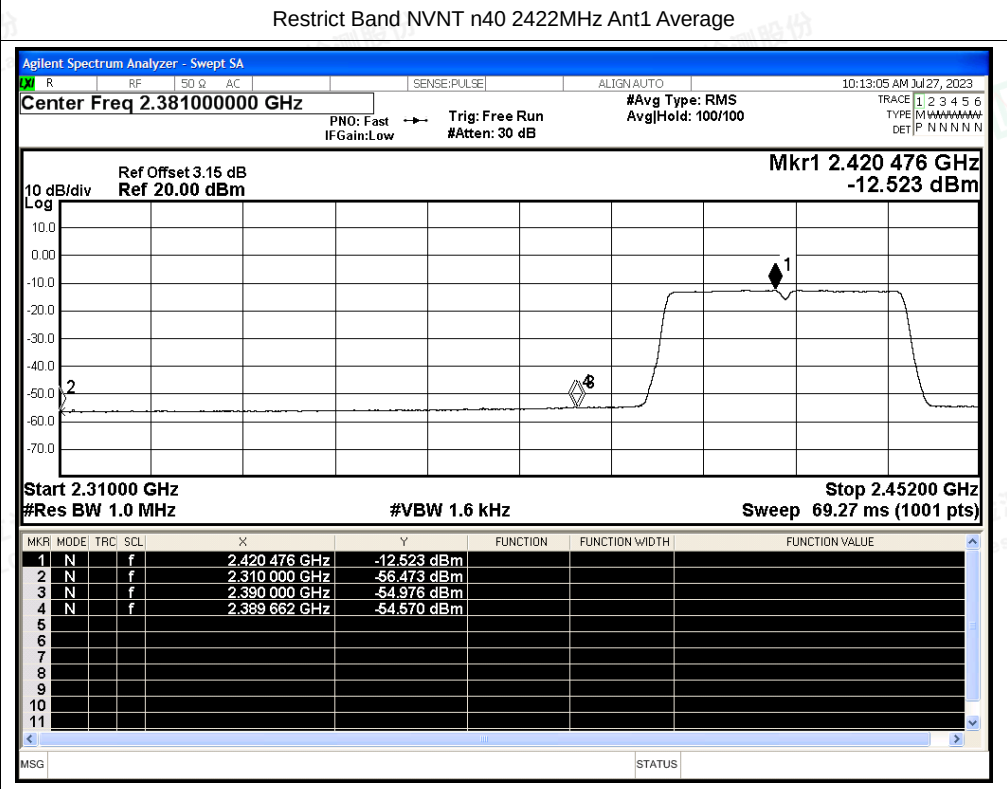
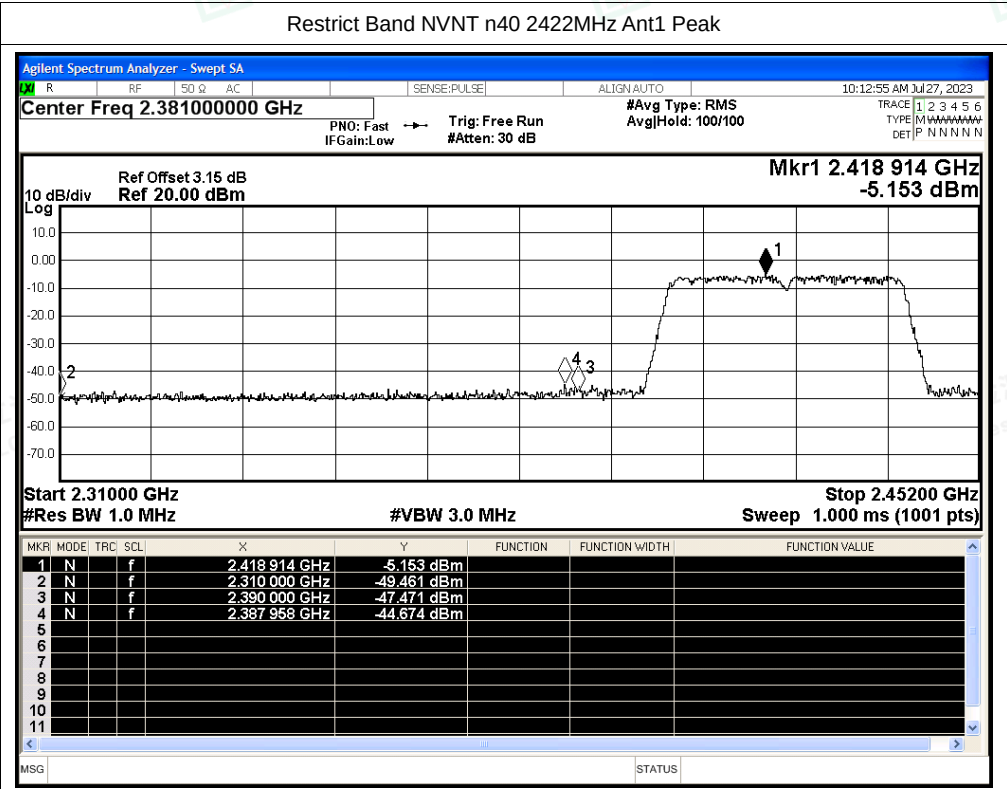


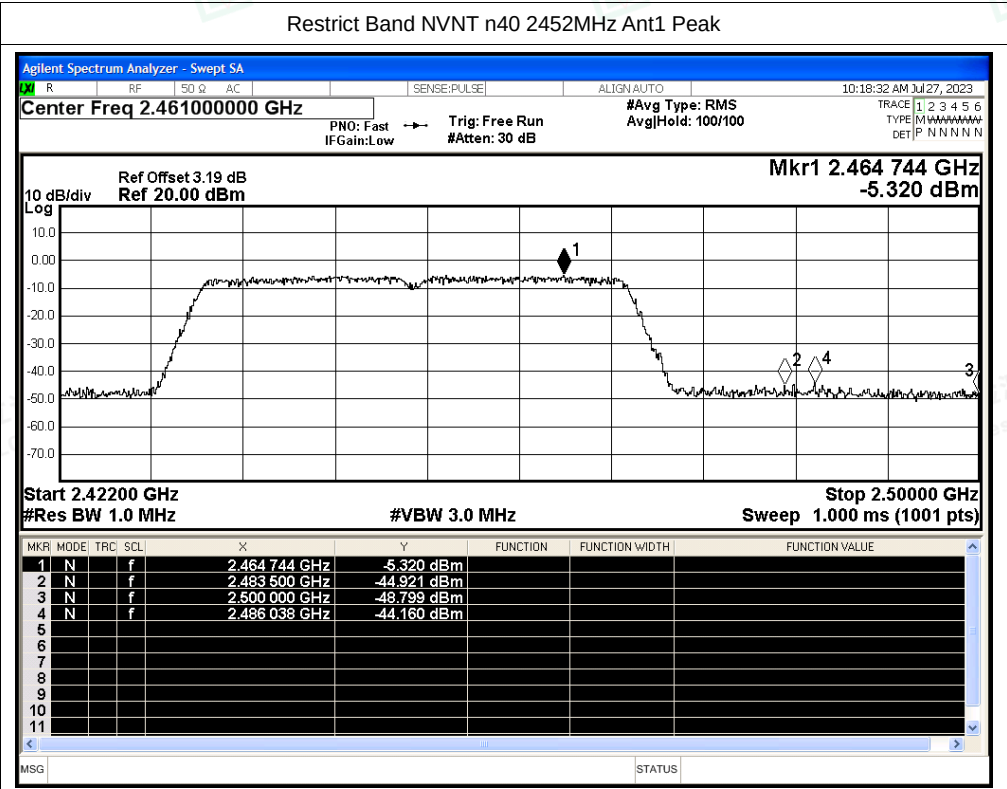












Restrict Band NVNT n40 2452MHz Ant1 Average

