



Appendix A

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: All-in-one computer

Trade Mark: N/A

Test Model: ALL IN ONE PC

Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Emiya lin
Supervised by:	Simba Huang



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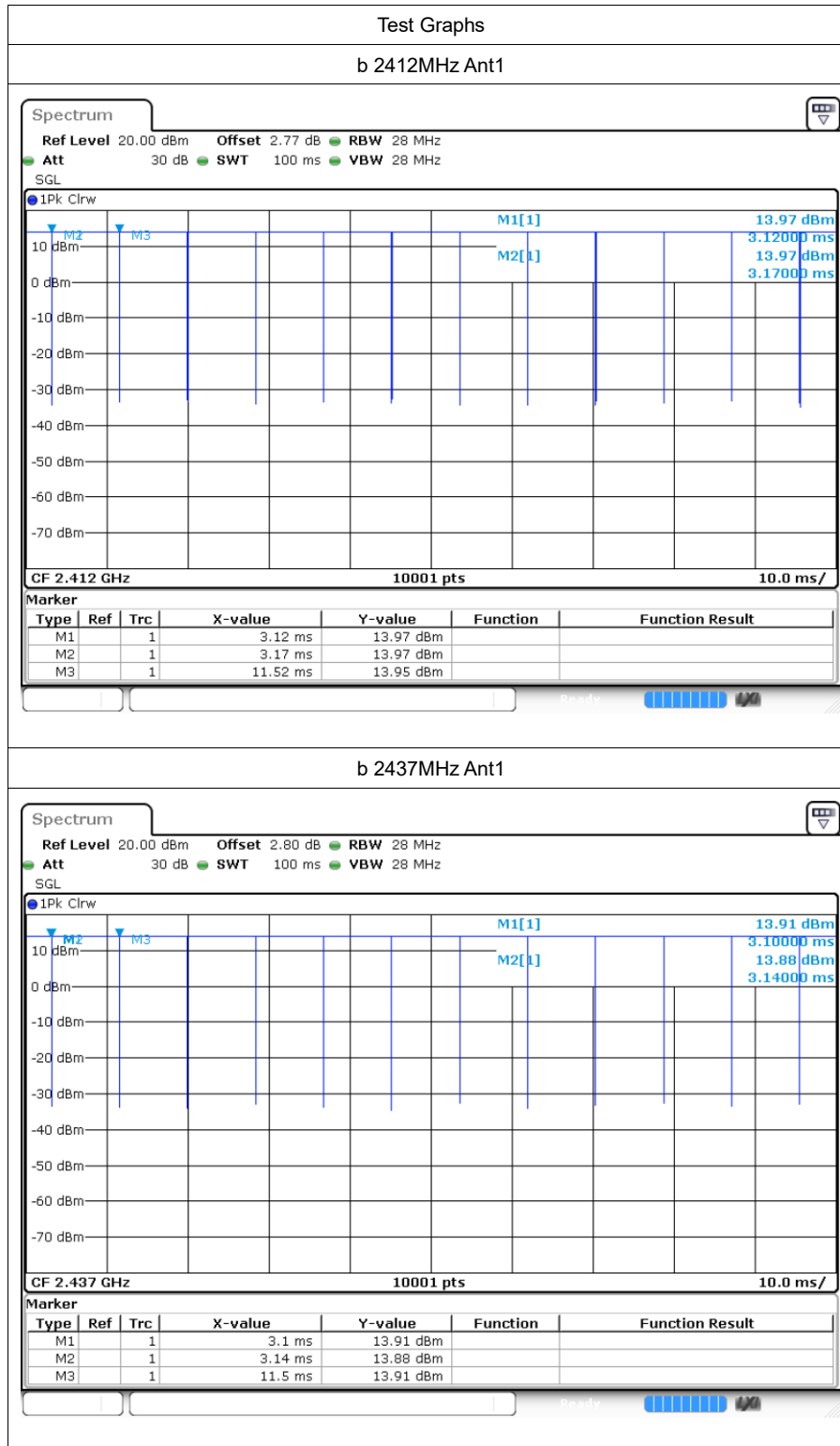
1 Duty Cycle

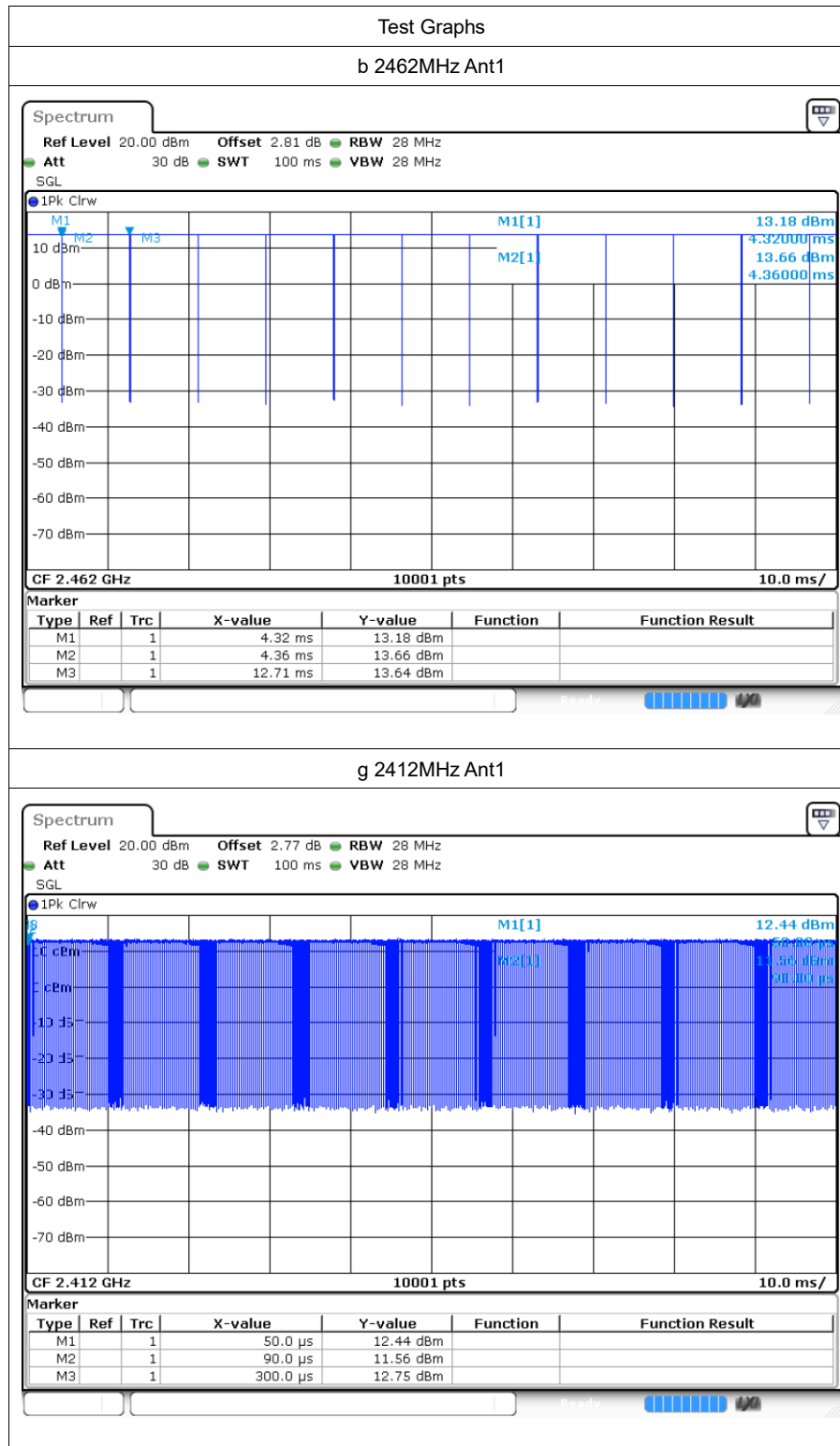
1.1 Test Result

Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor	1/T (kHz)
b	2412	Ant1	99.59	0.02	0.12
b	2437	Ant1	99.6	0.02	0.12
b	2462	Ant1	99.6	0.02	0.12
g	2412	Ant1	86.83	0.61	4.76
g	2437	Ant1	86.87	0.61	4.55
g	2462	Ant1	86.86	0.61	4.76
n20	2412	Ant1	87.53	0.58	4.35
n20	2437	Ant1	87.51	0.58	4.17
n20	2462	Ant1	87.5	0.58	4.17
n40	2422	Ant1	87.96	0.56	4.17
n40	2437	Ant1	87.95	0.56	4.17
n40	2452	Ant1	88.02	0.55	4

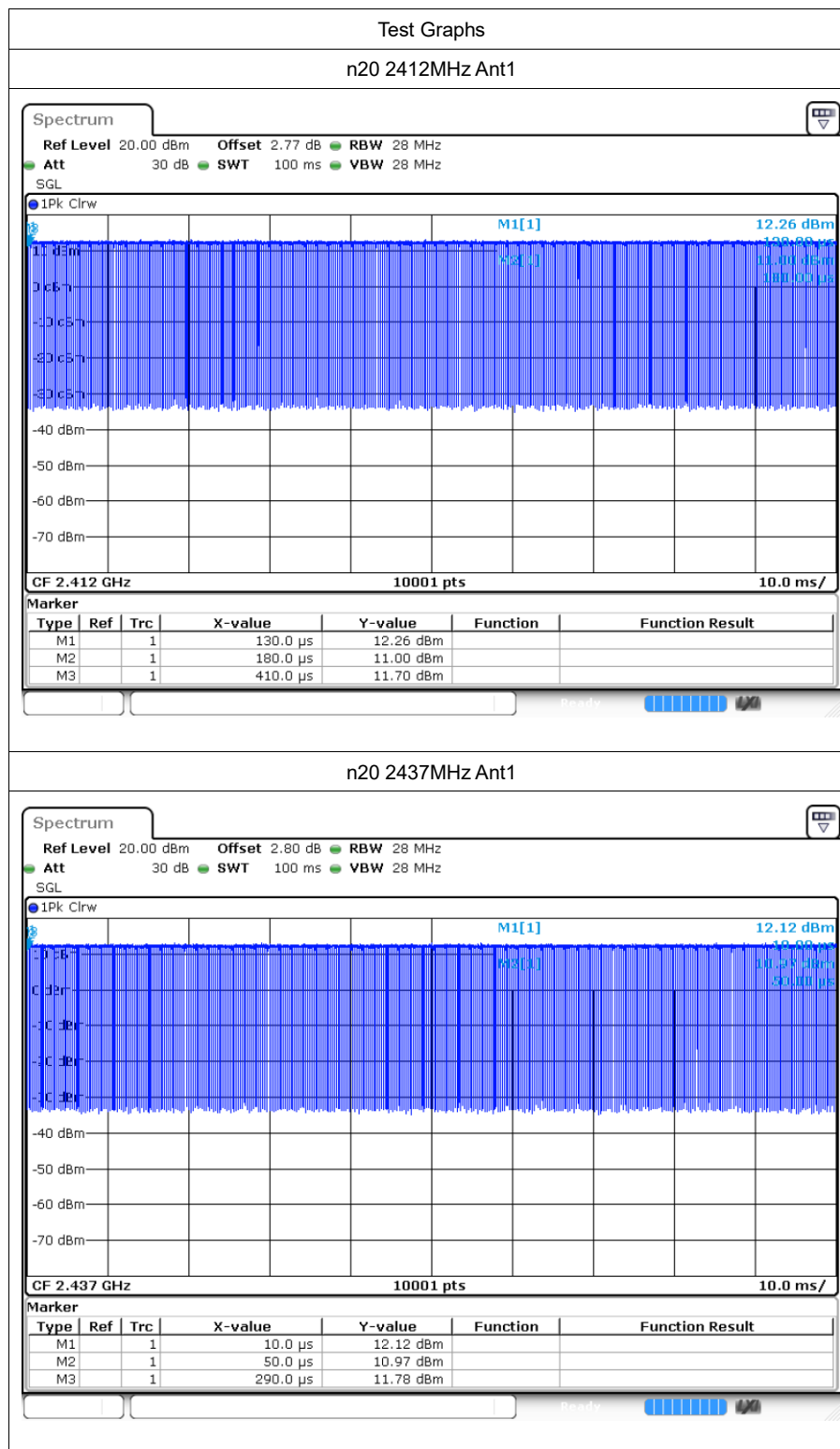
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor	1/T (kHz)
b	2412	Ant2	99.63	0.02	0.12
b	2437	Ant2	99.6	0.02	0.12
b	2462	Ant2	99.6	0.02	0.12
g	2412	Ant2	86.8	0.61	4.76
g	2437	Ant2	86.84	0.61	4.76
g	2462	Ant2	86.79	0.62	4.76
n20	2412	Ant2	87.49	0.58	4.17
n20	2437	Ant2	87.48	0.58	4.35
n20	2462	Ant2	87.51	0.58	4.35
n40	2422	Ant2	87.97	0.56	4.17
n40	2437	Ant2	87.98	0.56	4.17
n40	2452	Ant2	87.96	0.56	4.17

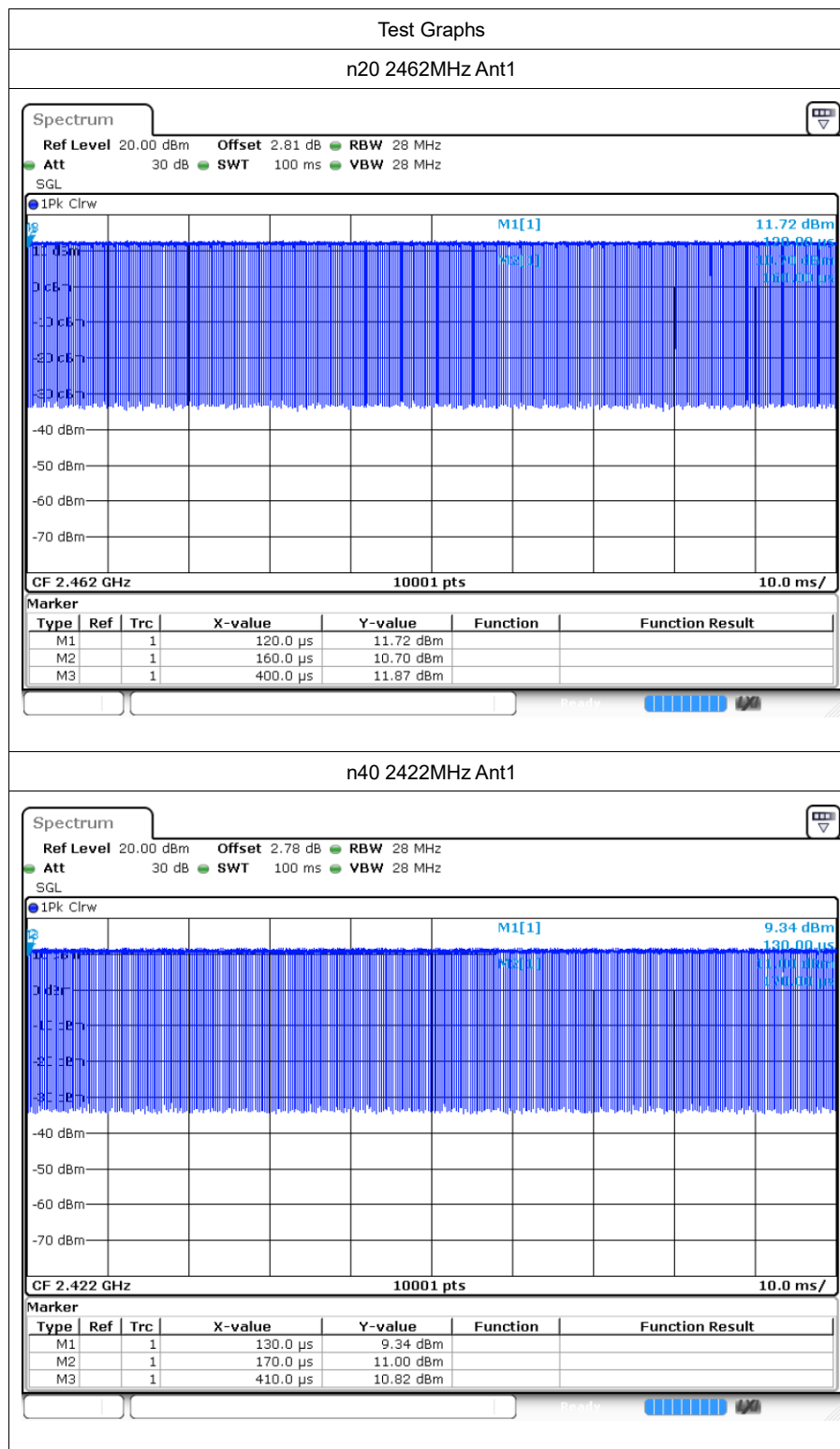
1.2 Test Graphs

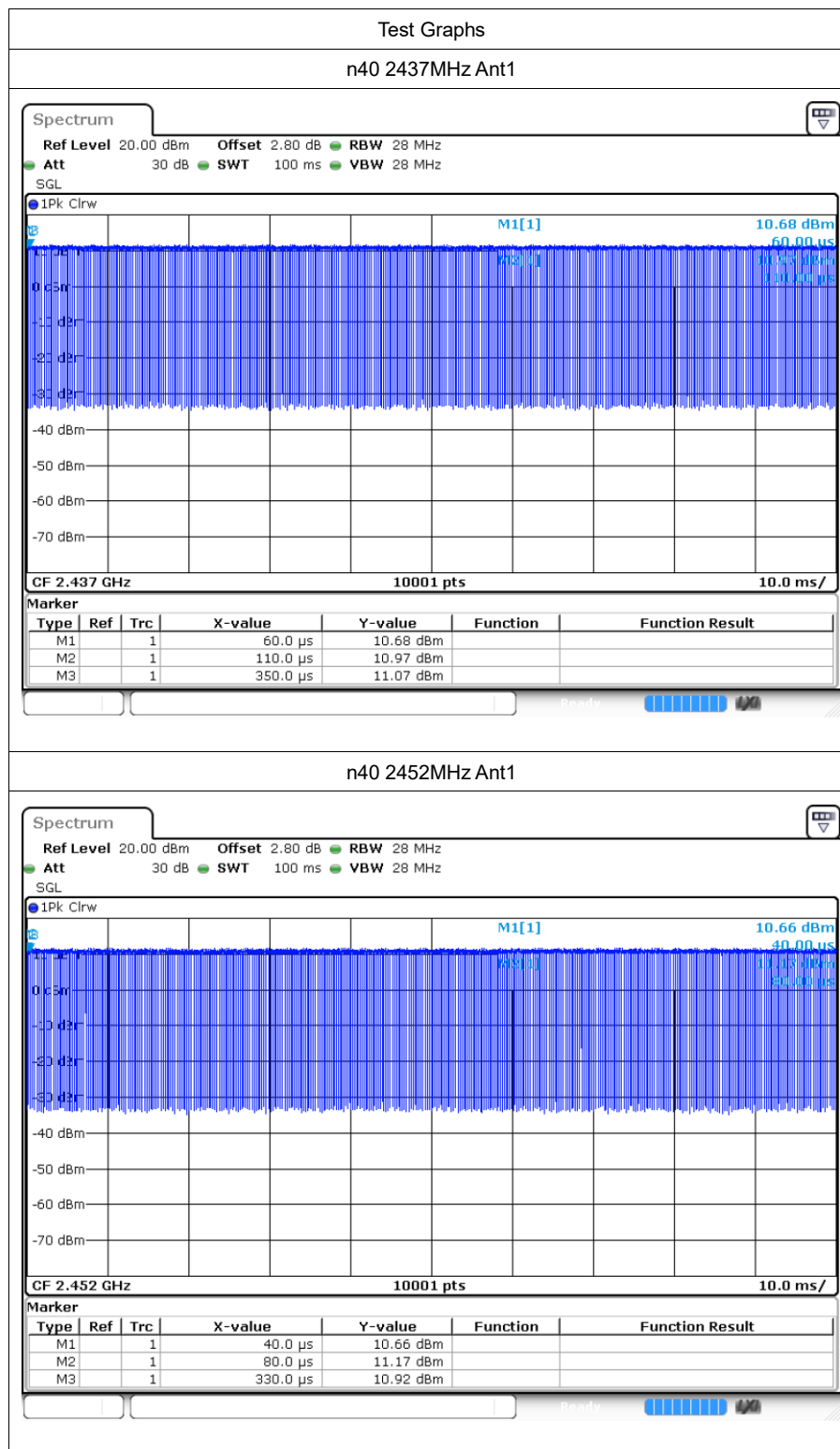


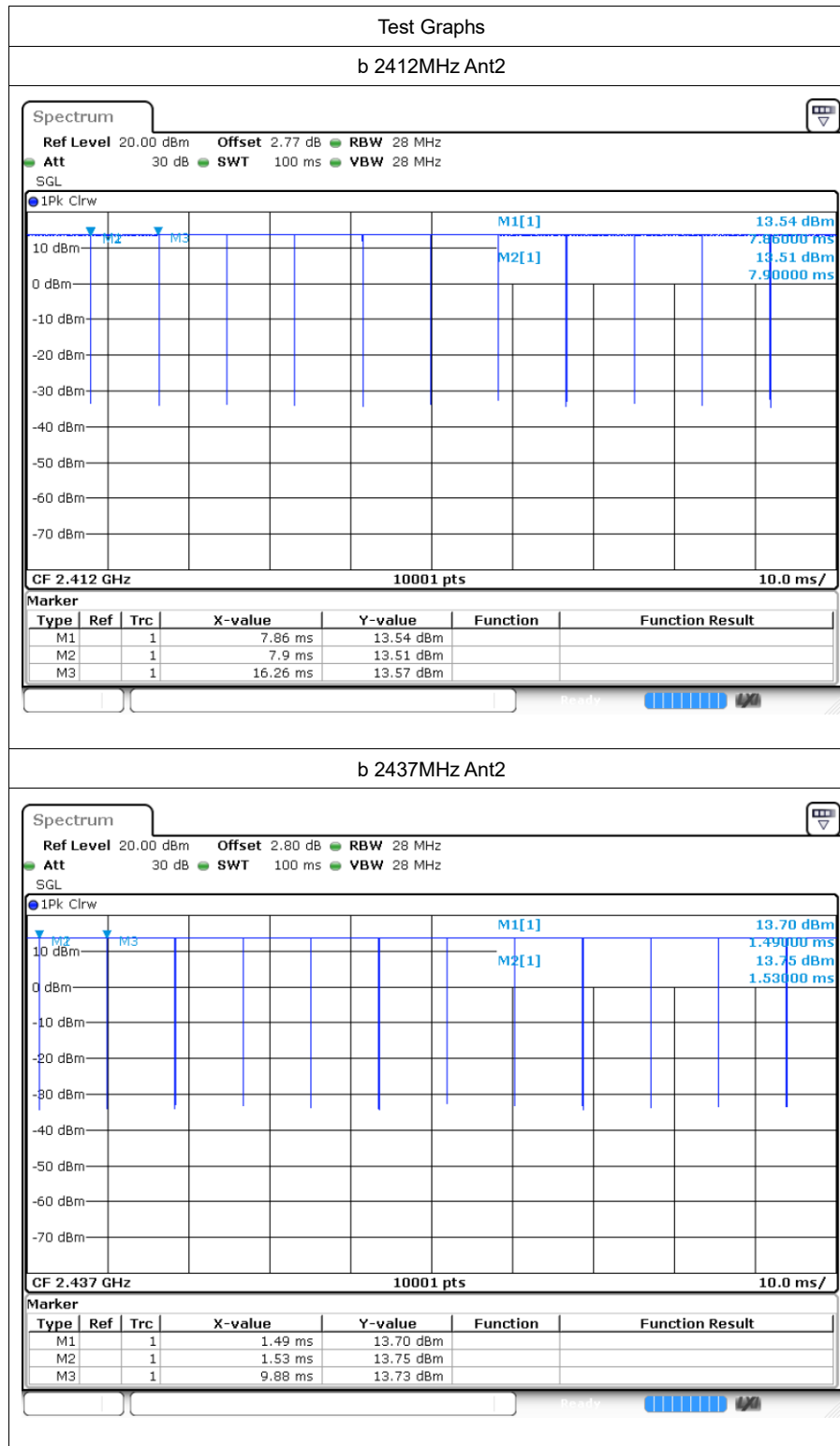


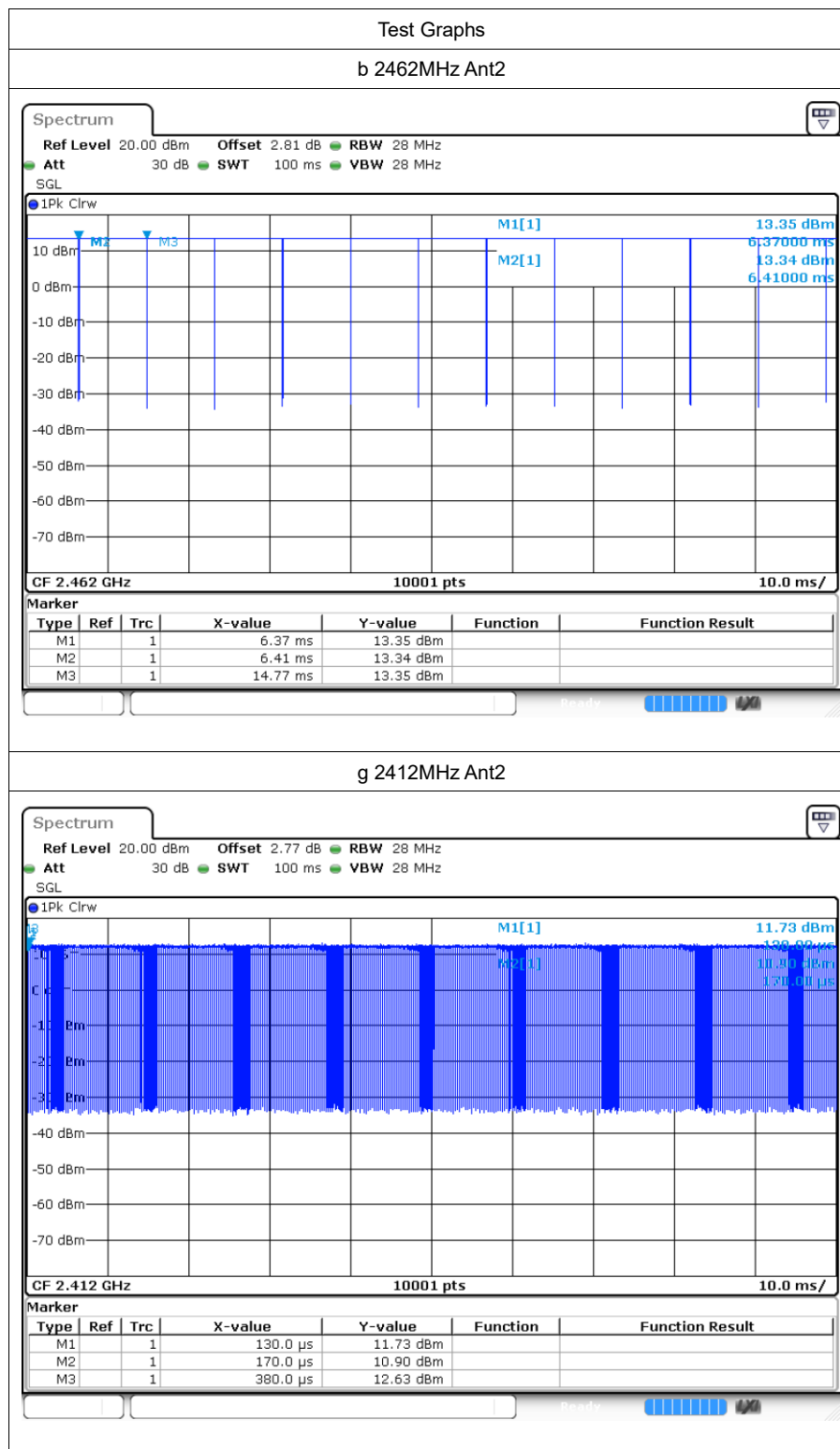


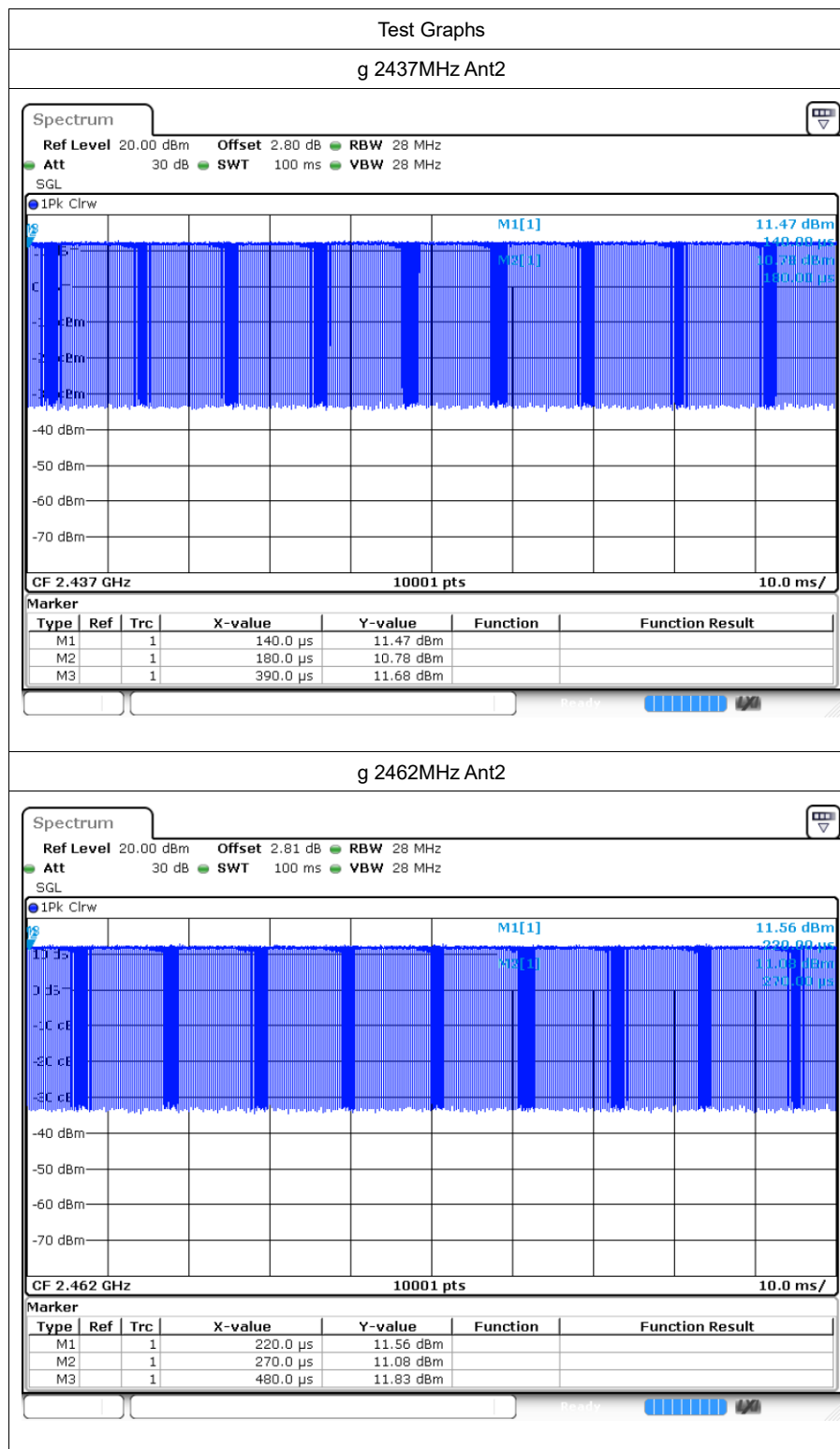


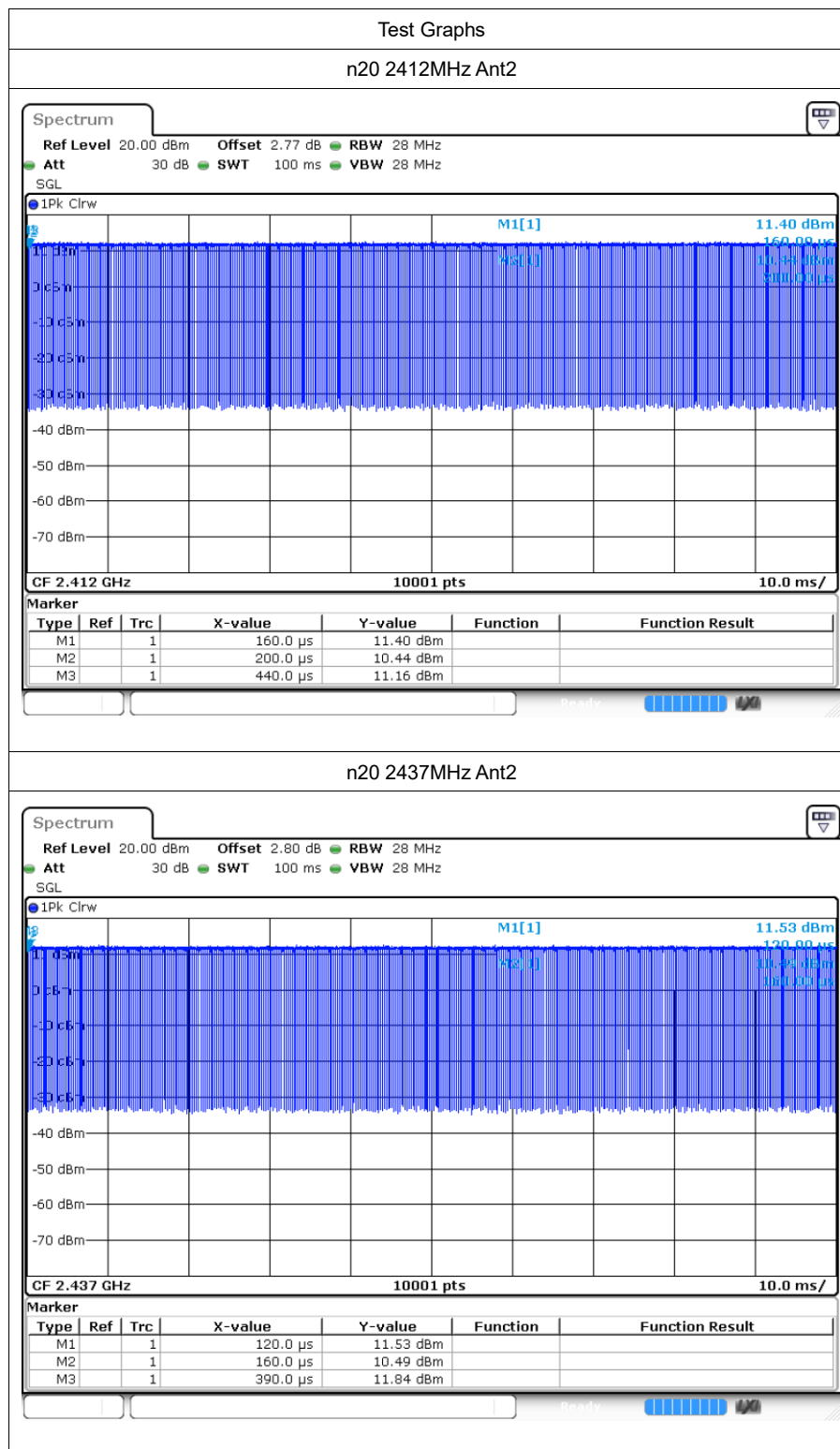


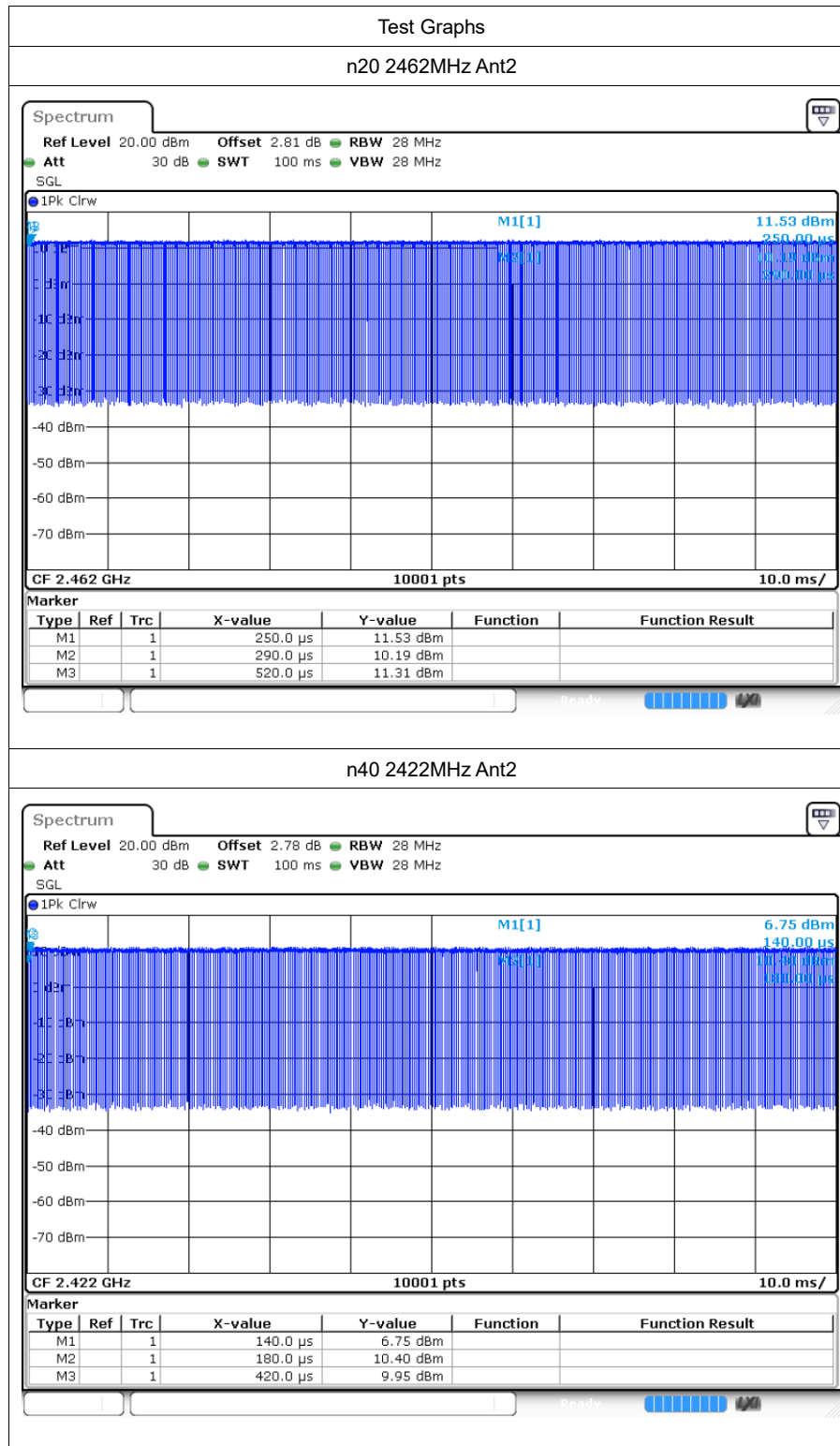


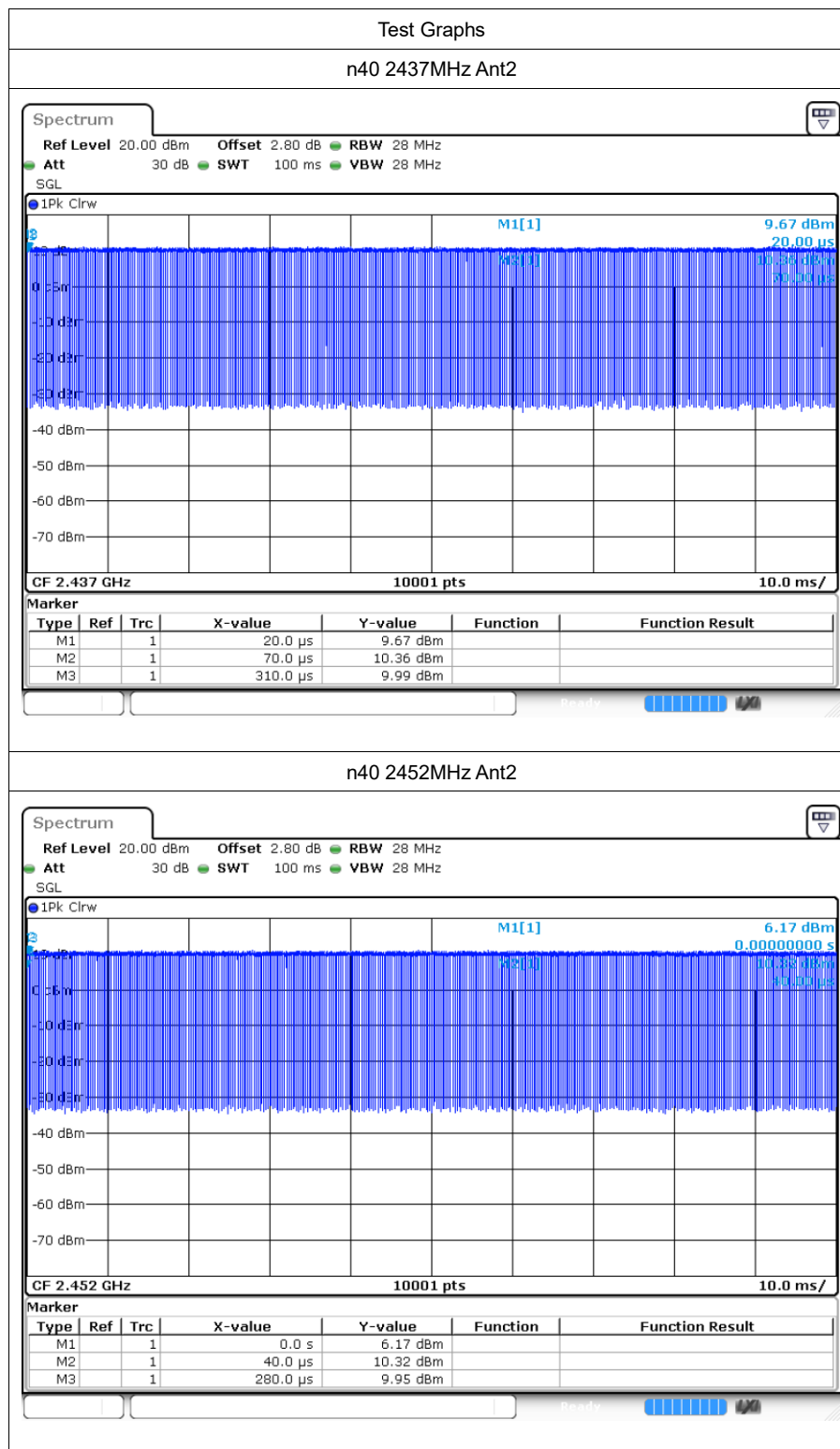














2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant1	15.1	30	Pass
b	2437	Ant1	14.94	30	Pass
b	2462	Ant1	14.75	30	Pass
g	2412	Ant1	14.66	30	Pass
g	2437	Ant1	14.57	30	Pass
g	2462	Ant1	14.38	30	Pass
n20	2412	Ant1	14.12	30	Pass
n20	2437	Ant1	14.07	30	Pass
n20	2462	Ant1	13.85	30	Pass
n40	2422	Ant1	14.27	30	Pass
n40	2437	Ant1	14.21	30	Pass
n40	2452	Ant1	14.2	30	Pass

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant2	14.75	30	Pass
b	2437	Ant2	14.76	30	Pass
b	2462	Ant2	14.42	30	Pass
g	2412	Ant2	13.85	30	Pass
g	2437	Ant2	13.87	30	Pass
g	2462	Ant2	13.68	30	Pass
n20	2412	Ant2	13.55	30	Pass
n20	2437	Ant2	13.51	30	Pass
n20	2462	Ant2	13.29	30	Pass
n40	2422	Ant2	13.56	30	Pass
n40	2437	Ant2	13.68	30	Pass
n40	2452	Ant2	13.42	30	Pass



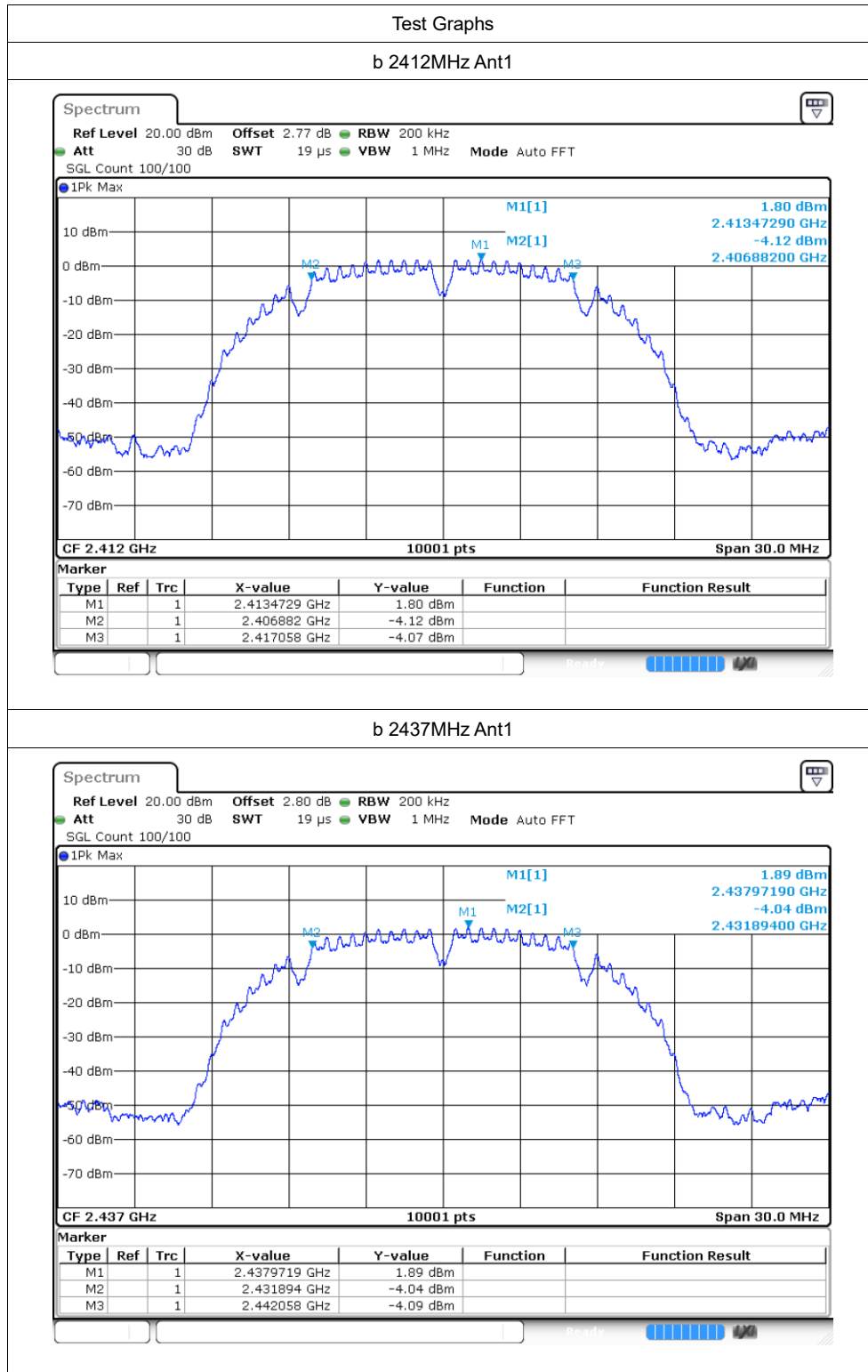
3 -6dB Bandwidth

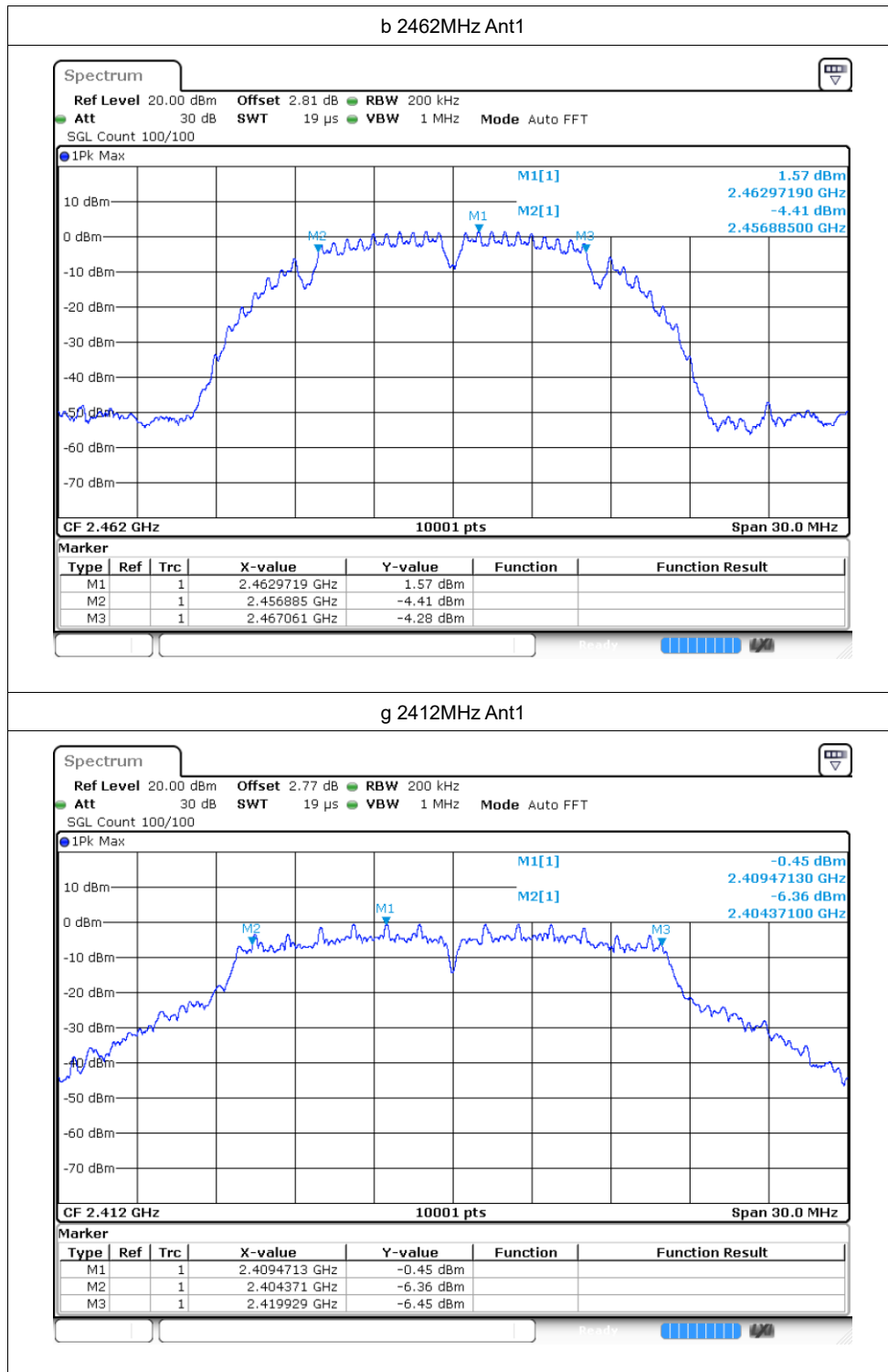
3.1 Test Result

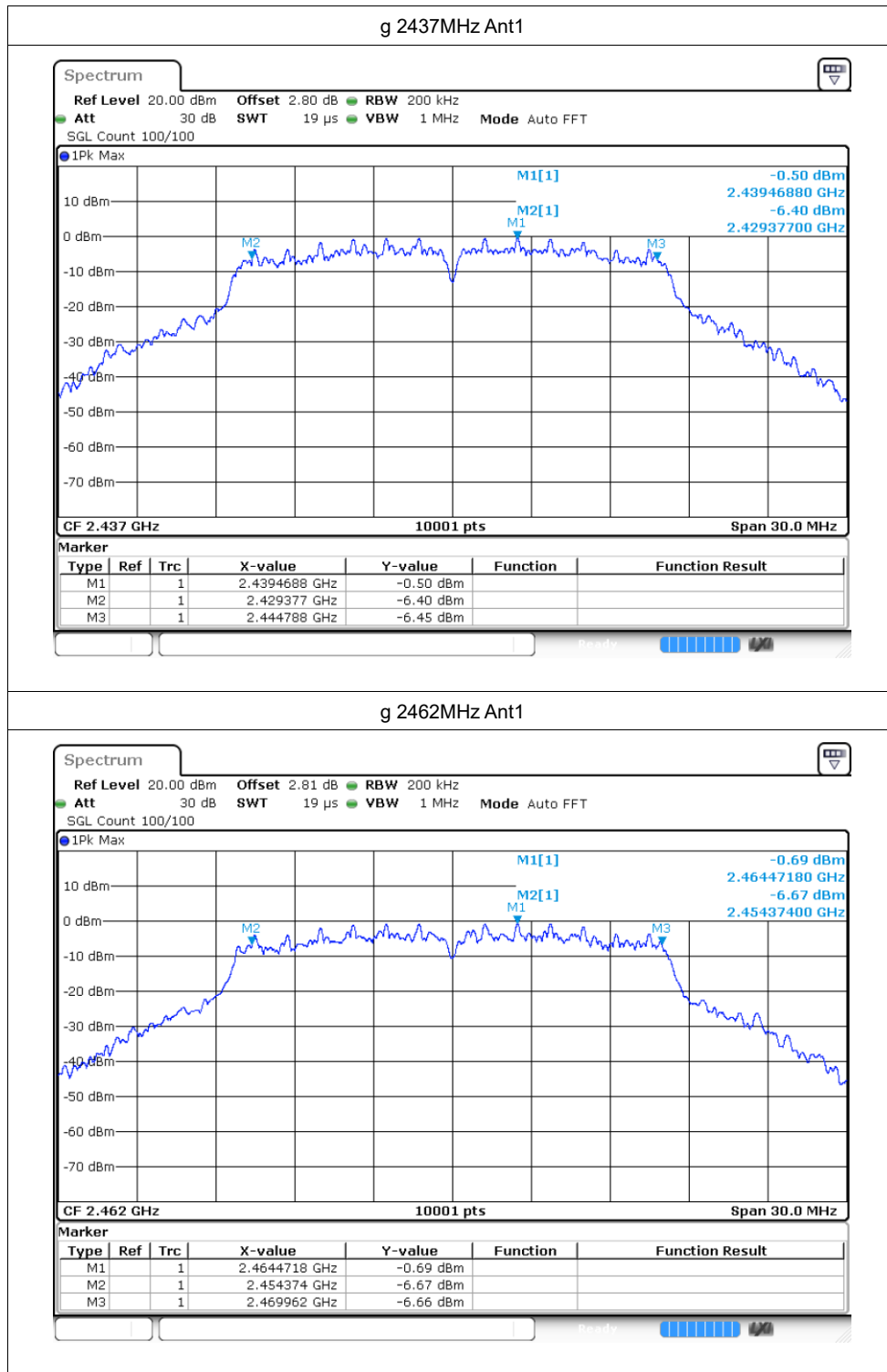
Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	10.176	0.5	Pass
b	2437	Ant1	10.164	0.5	Pass
b	2462	Ant1	10.176	0.5	Pass
g	2412	Ant1	15.558	0.5	Pass
g	2437	Ant1	15.411	0.5	Pass
g	2462	Ant1	15.588	0.5	Pass
n20	2412	Ant1	15.327	0.5	Pass
n20	2437	Ant1	15.138	0.5	Pass
n20	2462	Ant1	15.774	0.5	Pass
n40	2422	Ant1	34.794	0.5	Pass
n40	2437	Ant1	35.874	0.5	Pass
n40	2452	Ant1	35.97	0.5	Pass

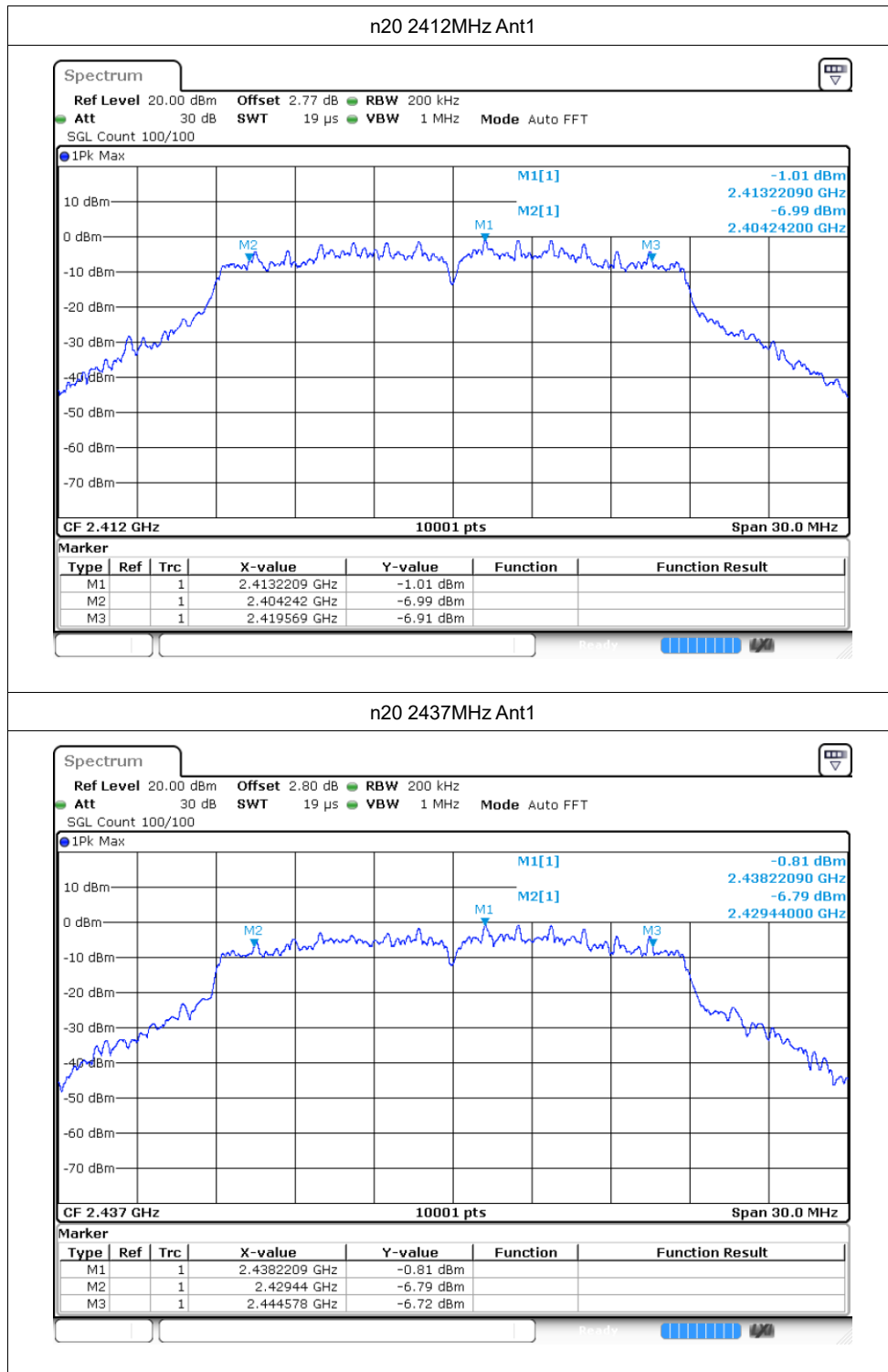
Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant2	10.173	0.5	Pass
b	2437	Ant2	10.167	0.5	Pass
b	2462	Ant2	10.173	0.5	Pass
g	2412	Ant2	15.726	0.5	Pass
g	2437	Ant2	15.558	0.5	Pass
g	2462	Ant2	15.348	0.5	Pass
n20	2412	Ant2	15.498	0.5	Pass
n20	2437	Ant2	16.782	0.5	Pass
n20	2462	Ant2	16.731	0.5	Pass
n40	2422	Ant2	35.748	0.5	Pass
n40	2437	Ant2	34.656	0.5	Pass
n40	2452	Ant2	35.97	0.5	Pass

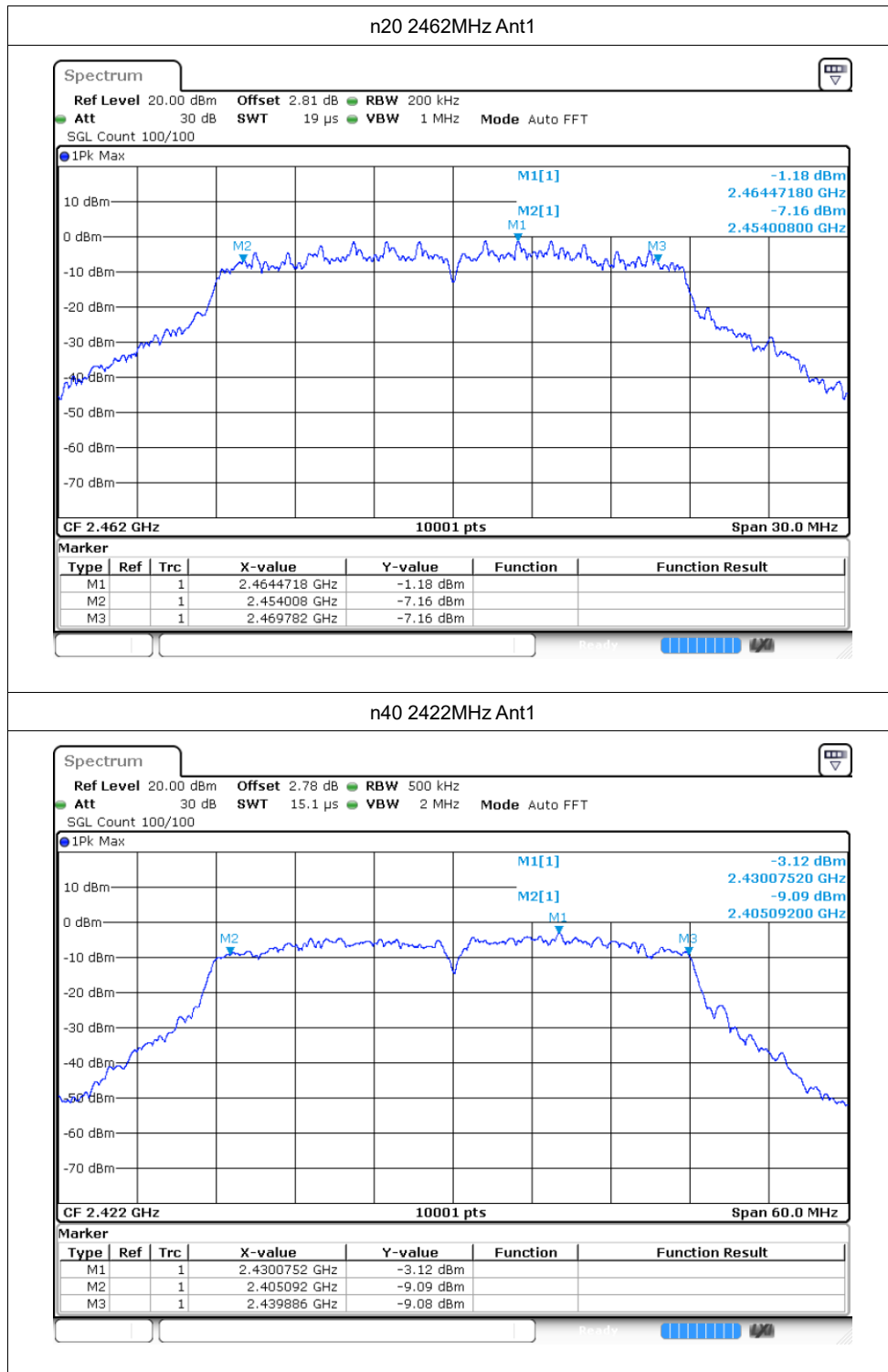
3.2 Test Graphs

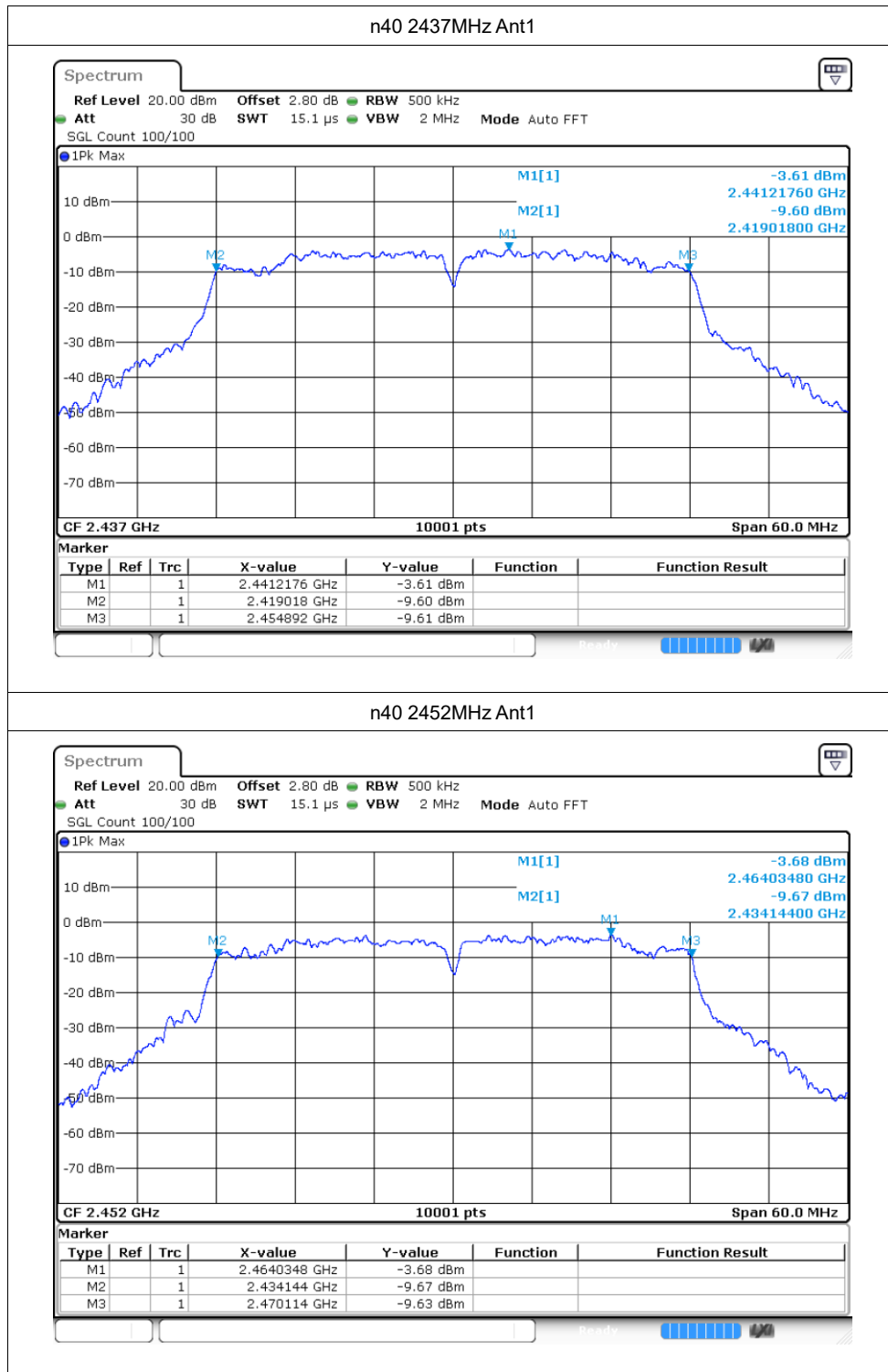






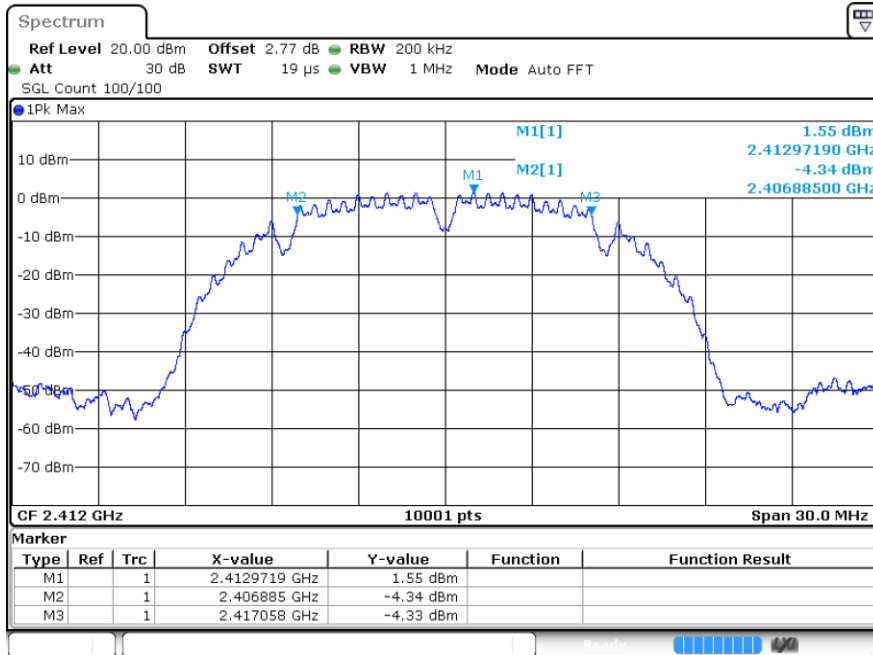




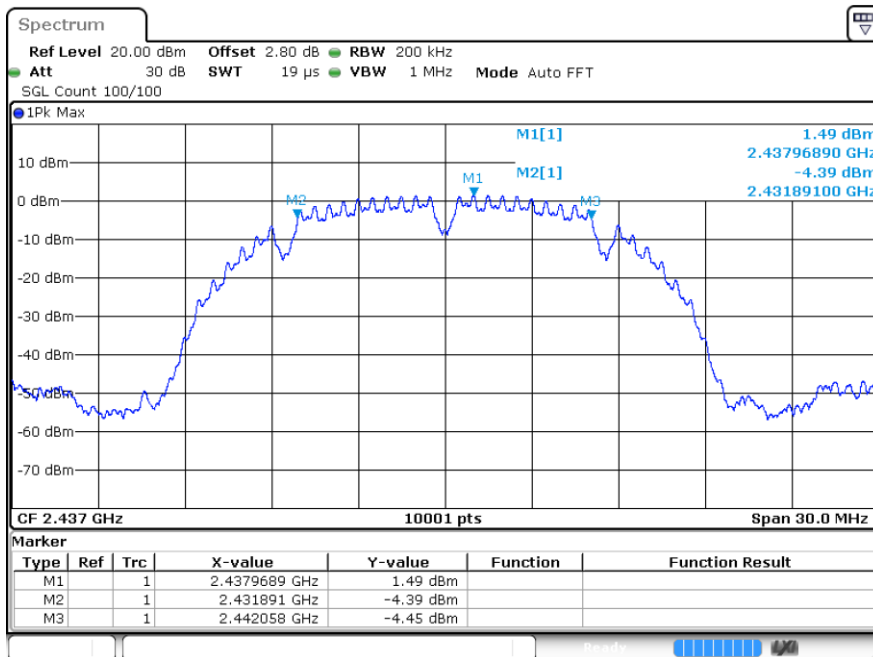


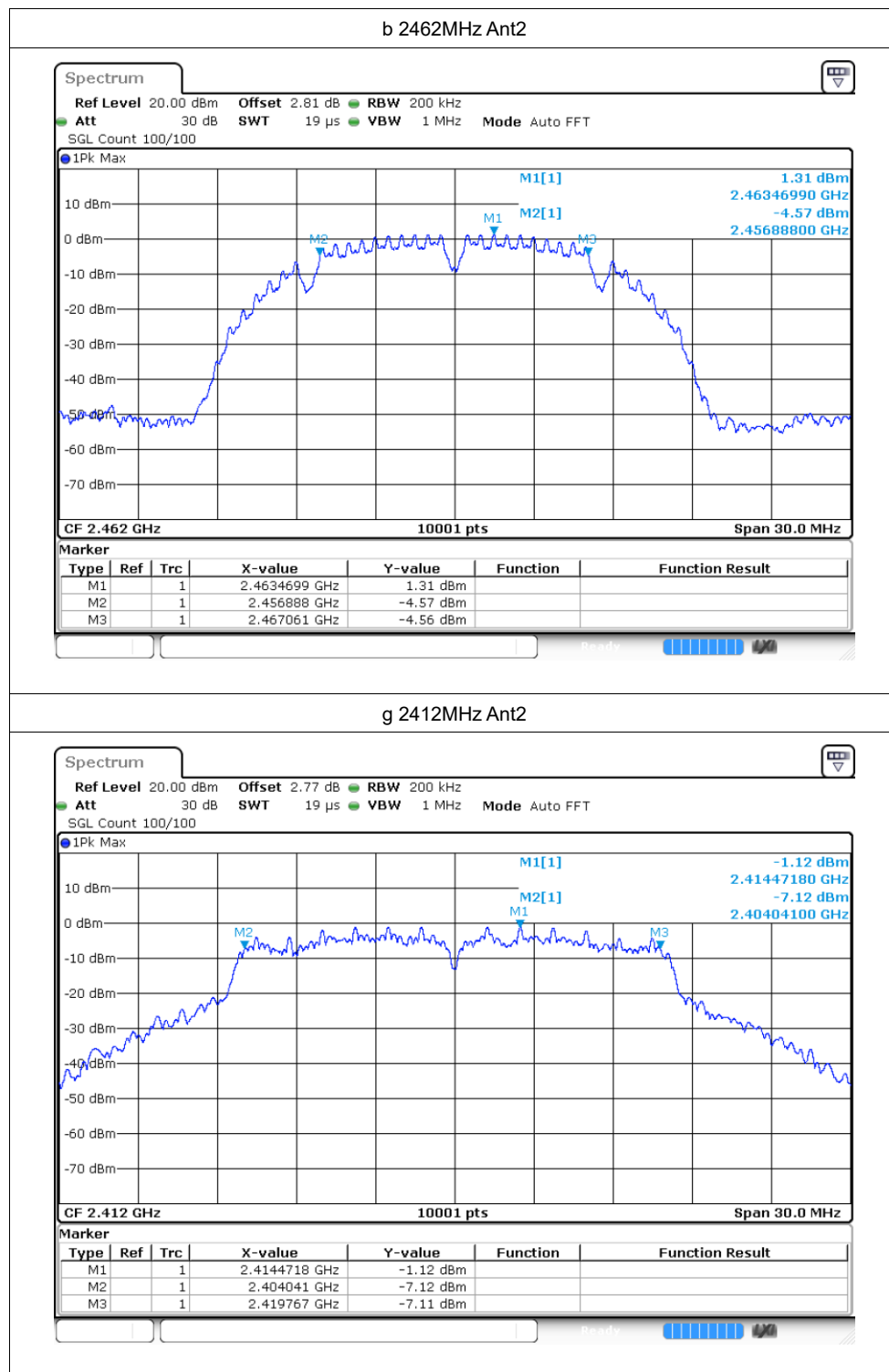
Test Graphs

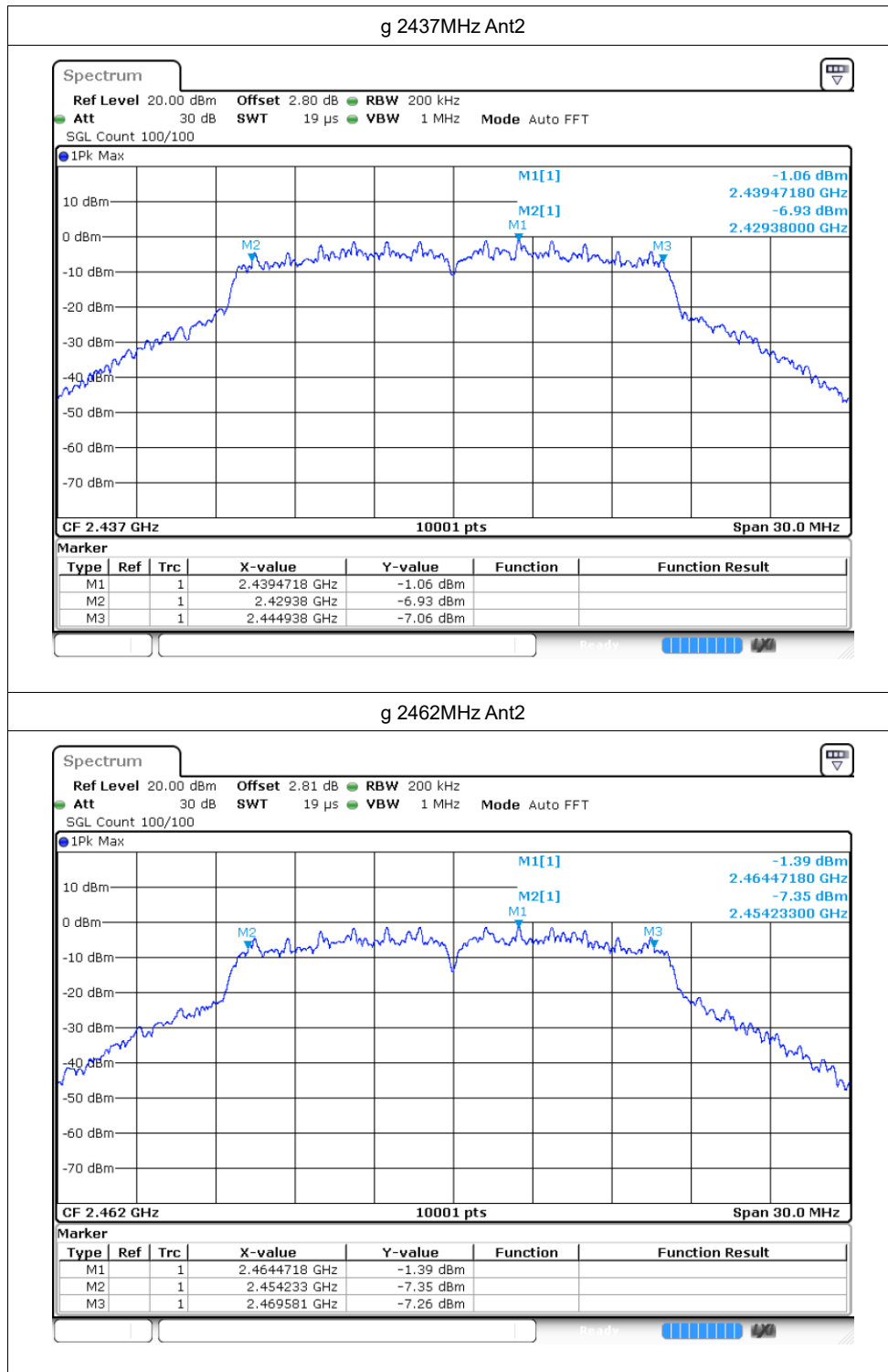
b 2412MHz Ant2

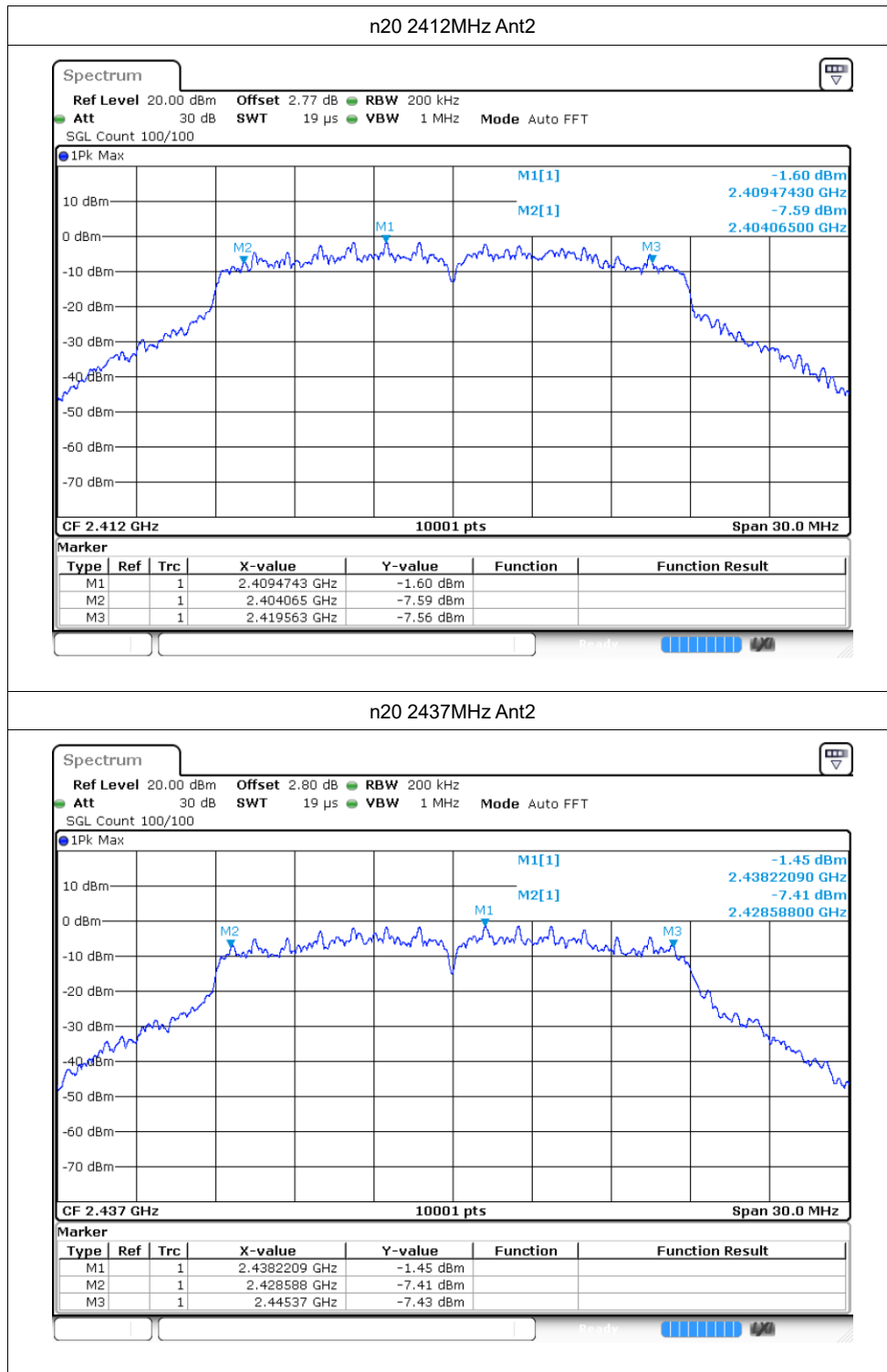


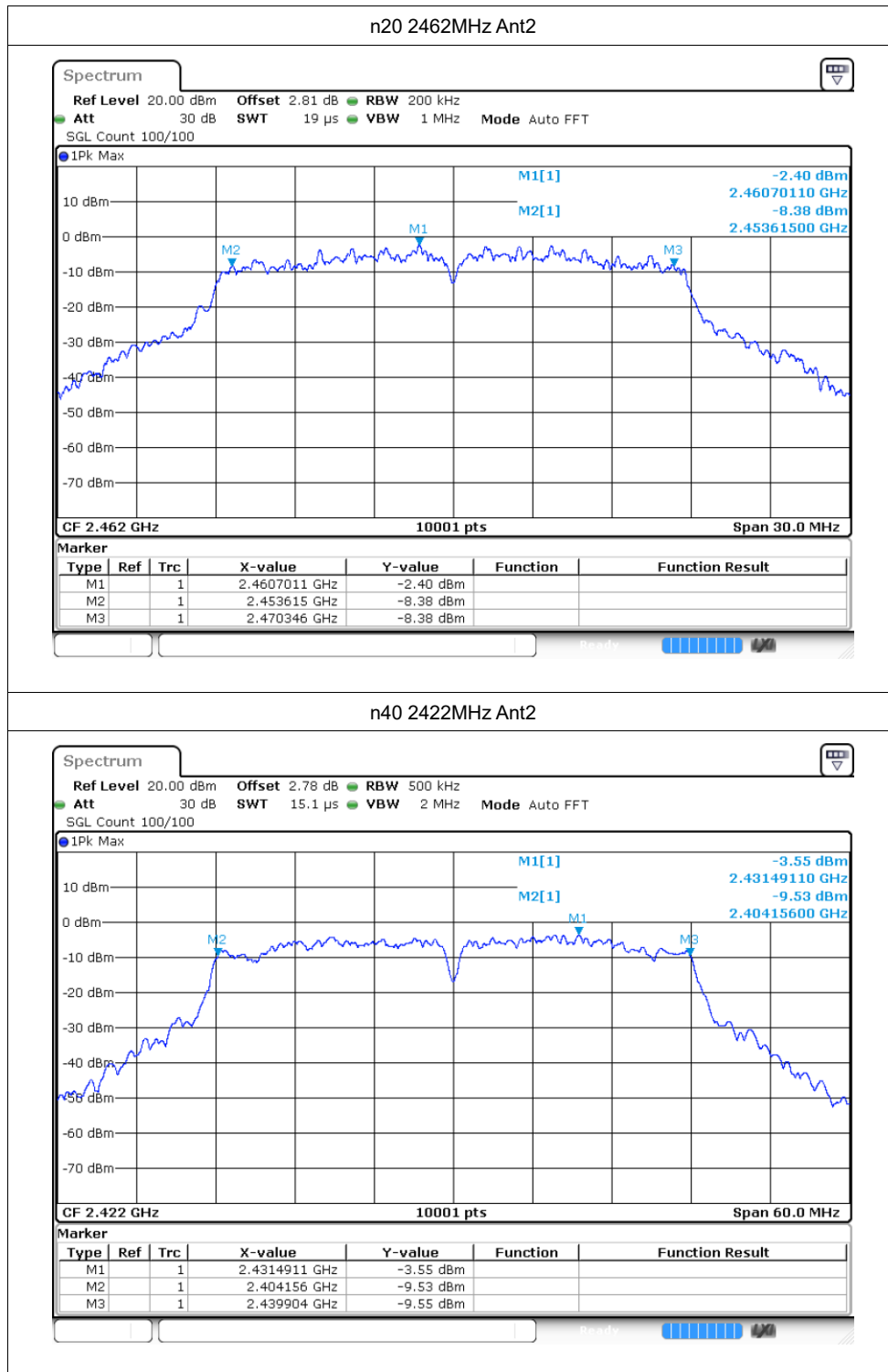
b 2437MHz Ant2

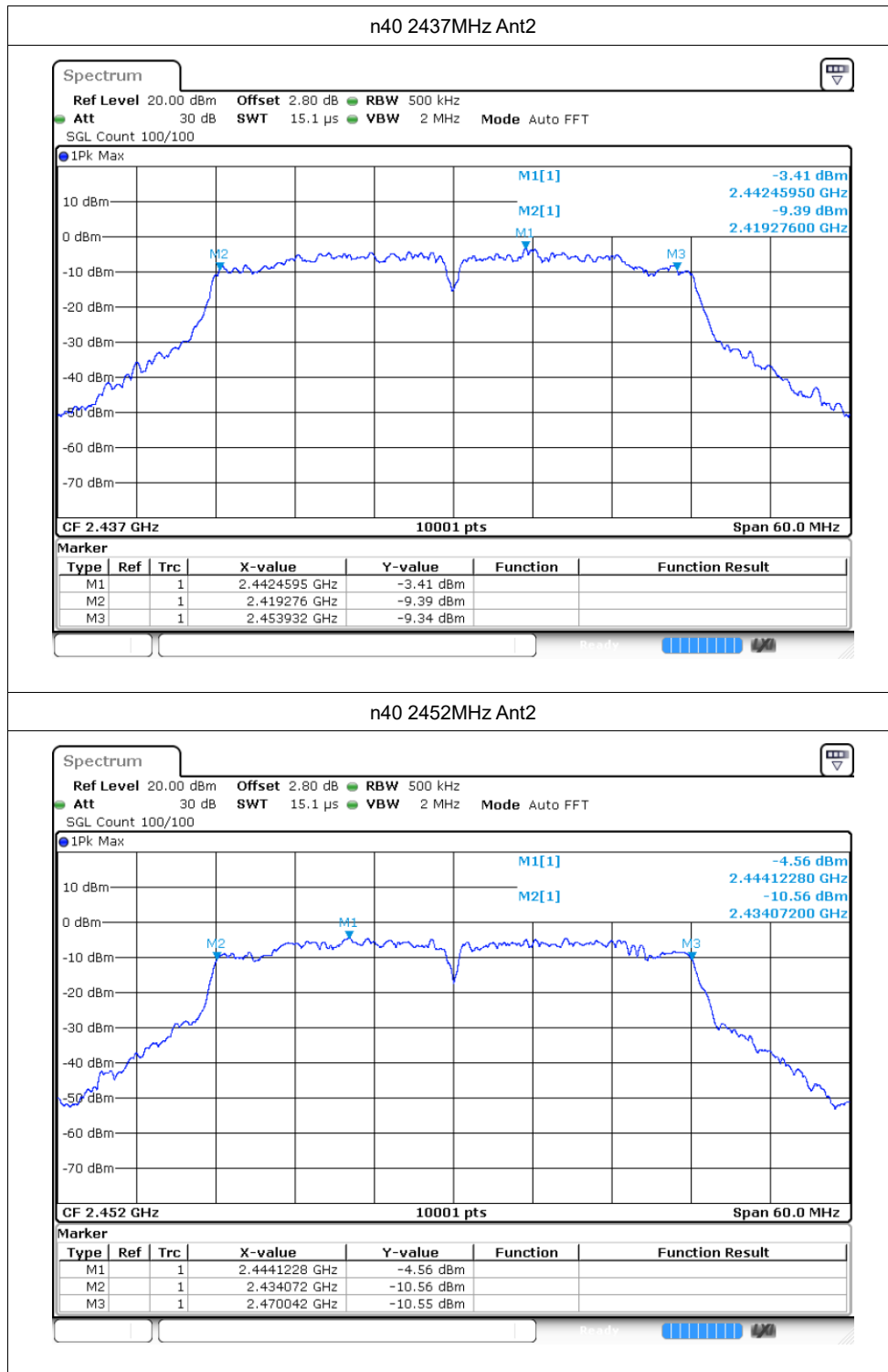












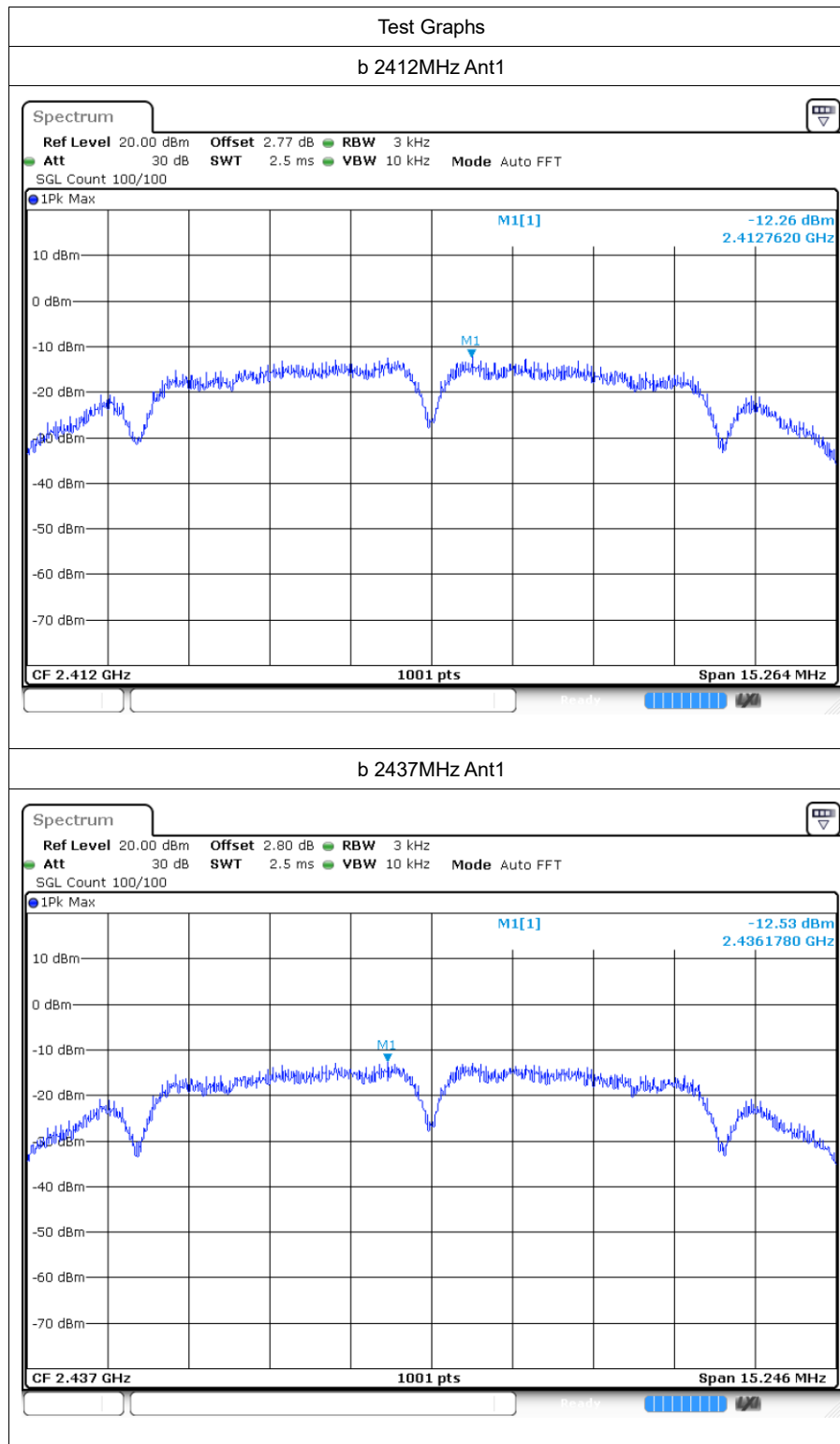
4 Maximum Power Spectral Density Level

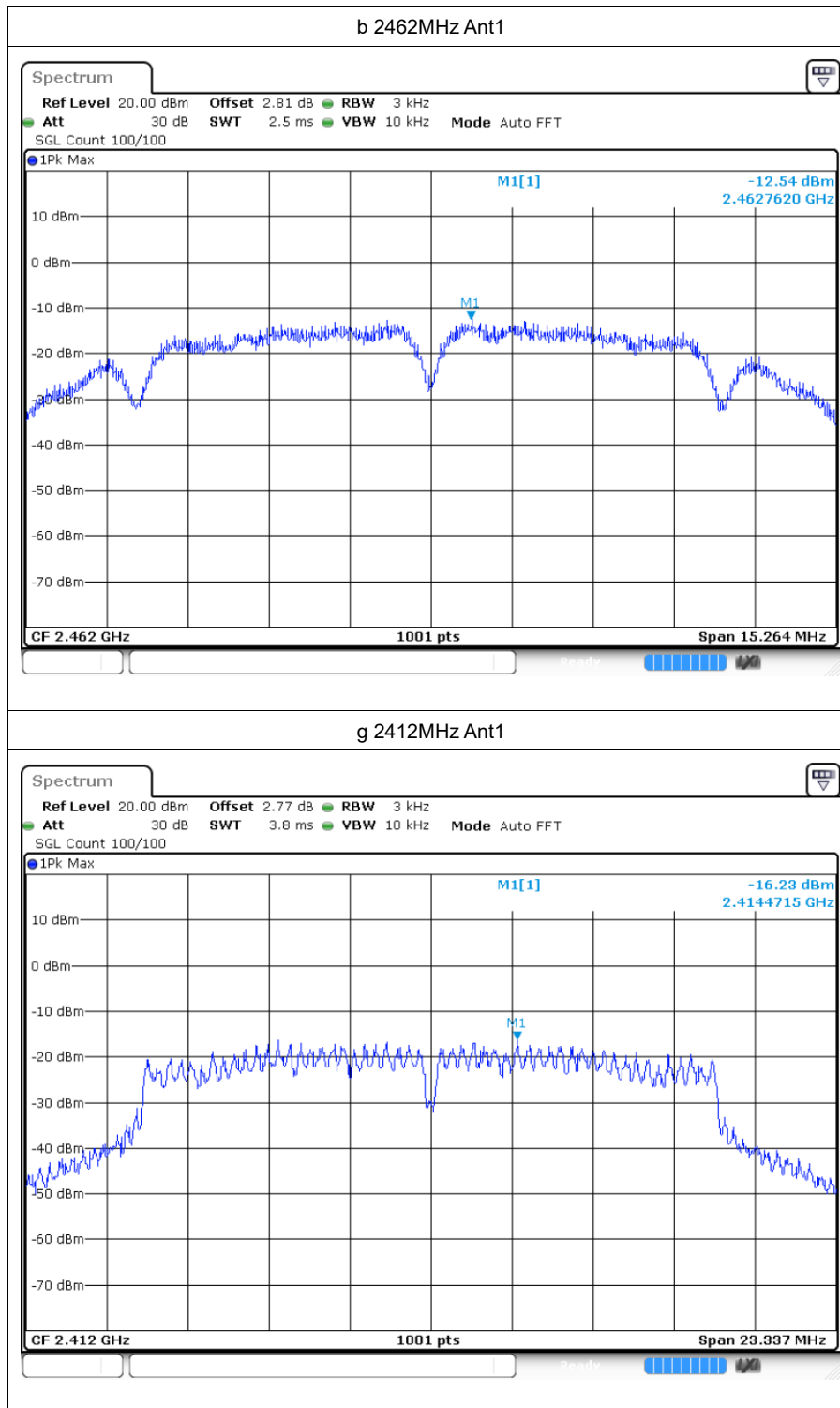
4.1 Test Result

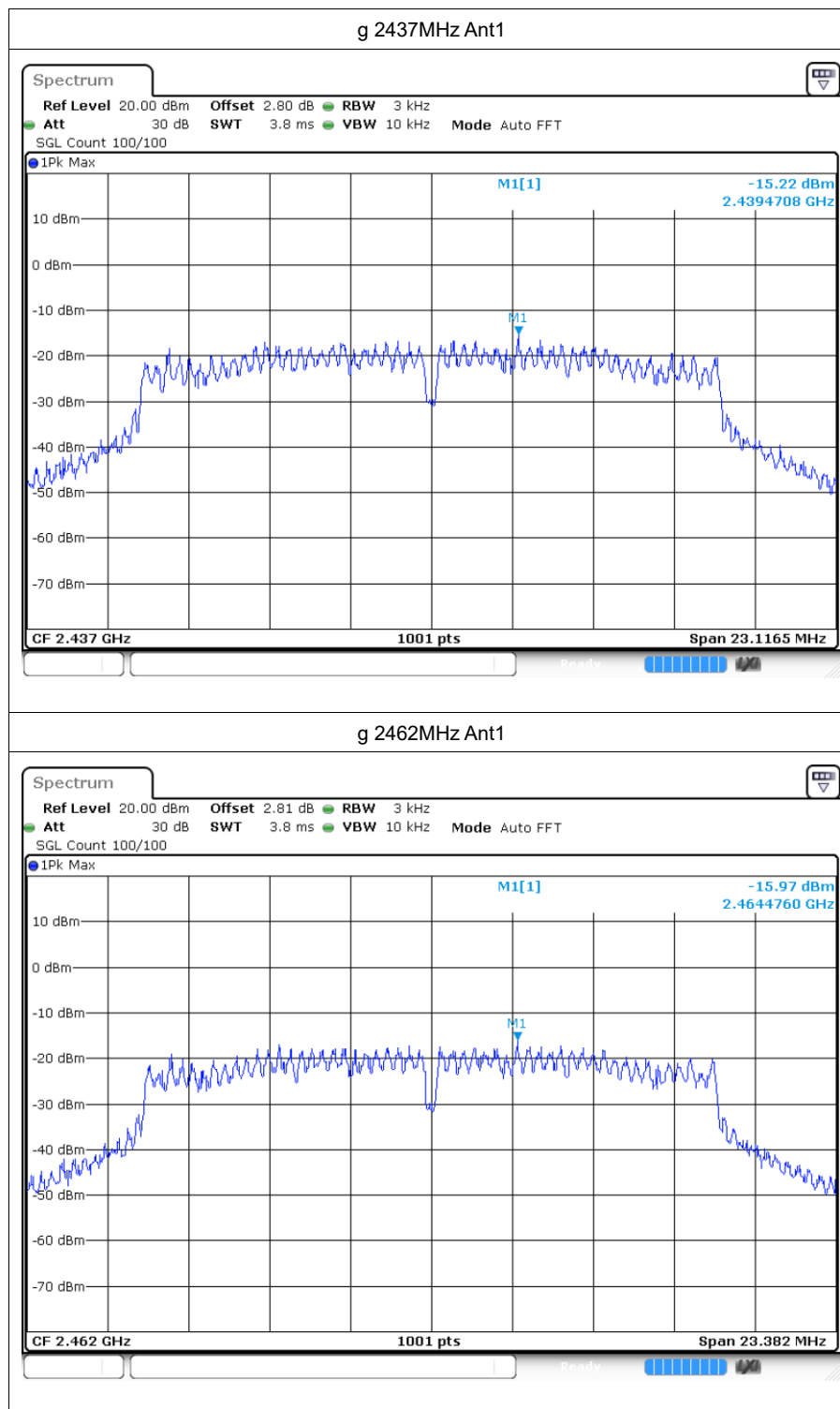
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
b	2412	Ant1	-12.26	≤8	Pass
b	2437	Ant1	-12.53	≤8	Pass
b	2462	Ant1	-12.54	≤8	Pass
g	2412	Ant1	-16.23	≤8	Pass
g	2437	Ant1	-15.22	≤8	Pass
g	2462	Ant1	-15.97	≤8	Pass
n20	2412	Ant1	-16.42	≤8	Pass
n20	2437	Ant1	-15.96	≤8	Pass
n20	2462	Ant1	-16.83	≤8	Pass
n40	2422	Ant1	-20.15	≤8	Pass
n40	2437	Ant1	-19.71	≤8	Pass
n40	2452	Ant1	-21.01	≤8	Pass

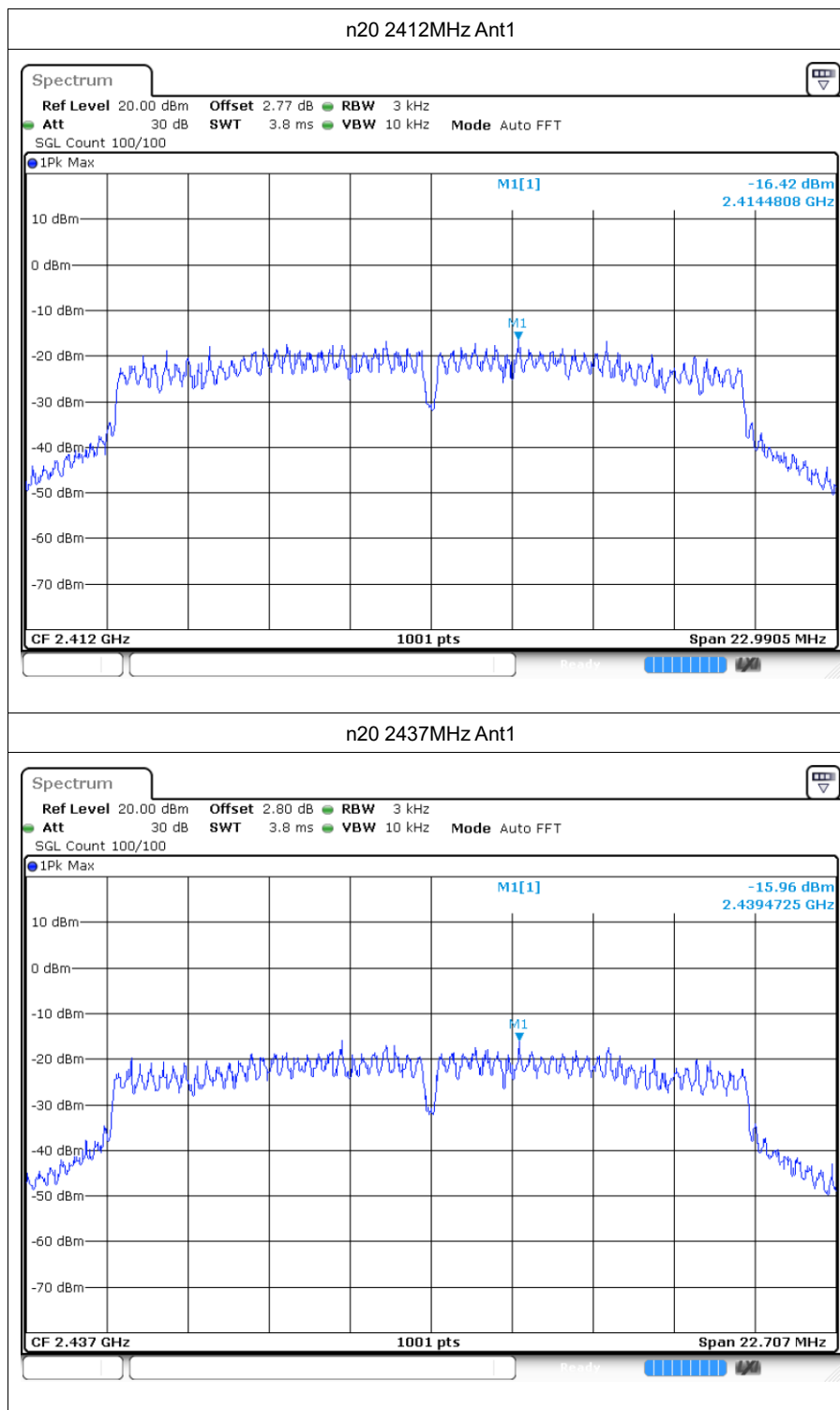
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
b	2412	Ant2	-13.43	≤8	Pass
b	2437	Ant2	-12.48	≤8	Pass
b	2462	Ant2	-13.1	≤8	Pass
g	2412	Ant2	-16.51	≤8	Pass
g	2437	Ant2	-17.12	≤8	Pass
g	2462	Ant2	-17.18	≤8	Pass
n20	2412	Ant2	-16.91	≤8	Pass
n20	2437	Ant2	-16.55	≤8	Pass
n20	2462	Ant2	-17.46	≤8	Pass
n40	2422	Ant2	-20.53	≤8	Pass
n40	2437	Ant2	-20.38	≤8	Pass
n40	2452	Ant2	-21.17	≤8	Pass

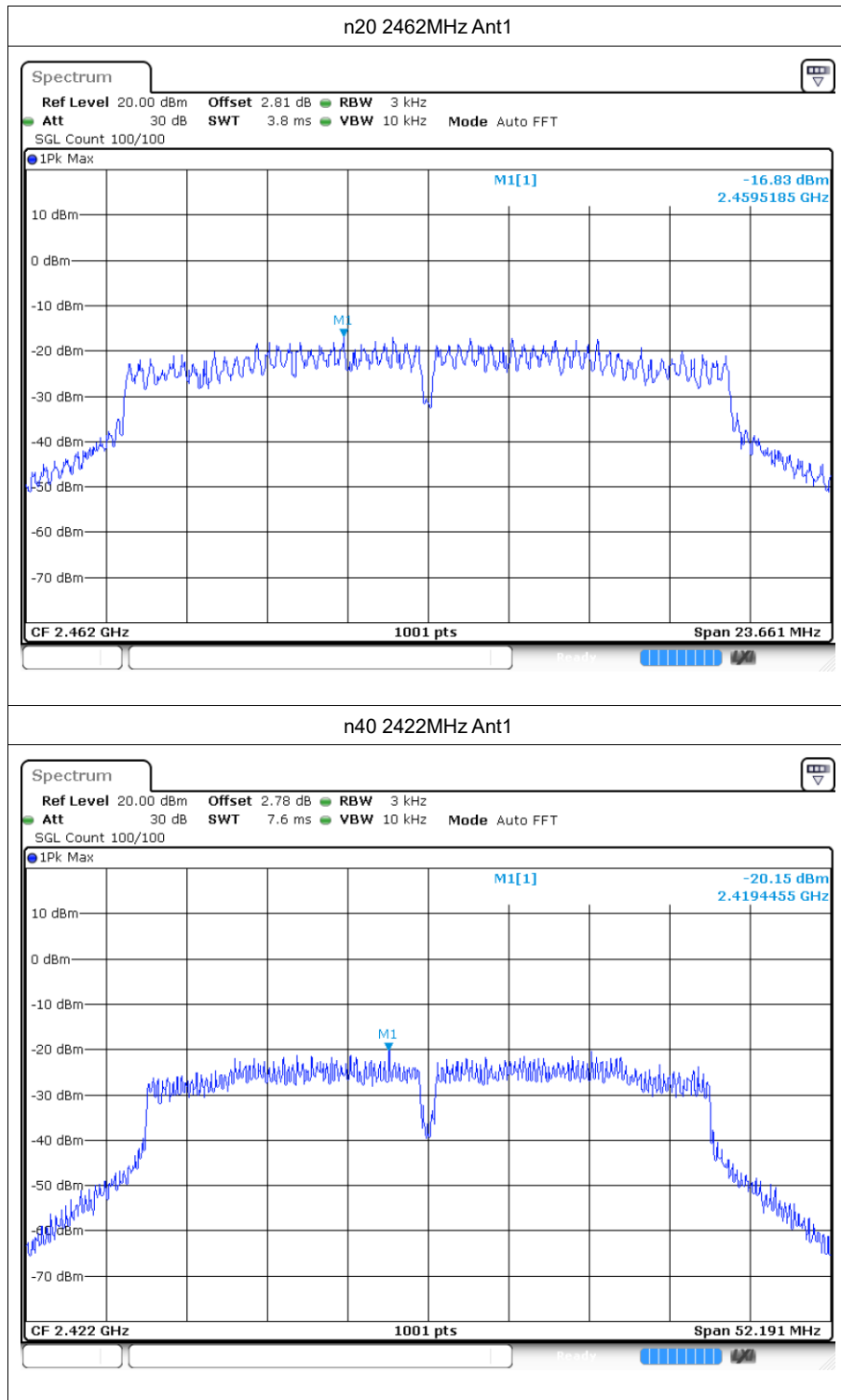
4.2 Test Graphs

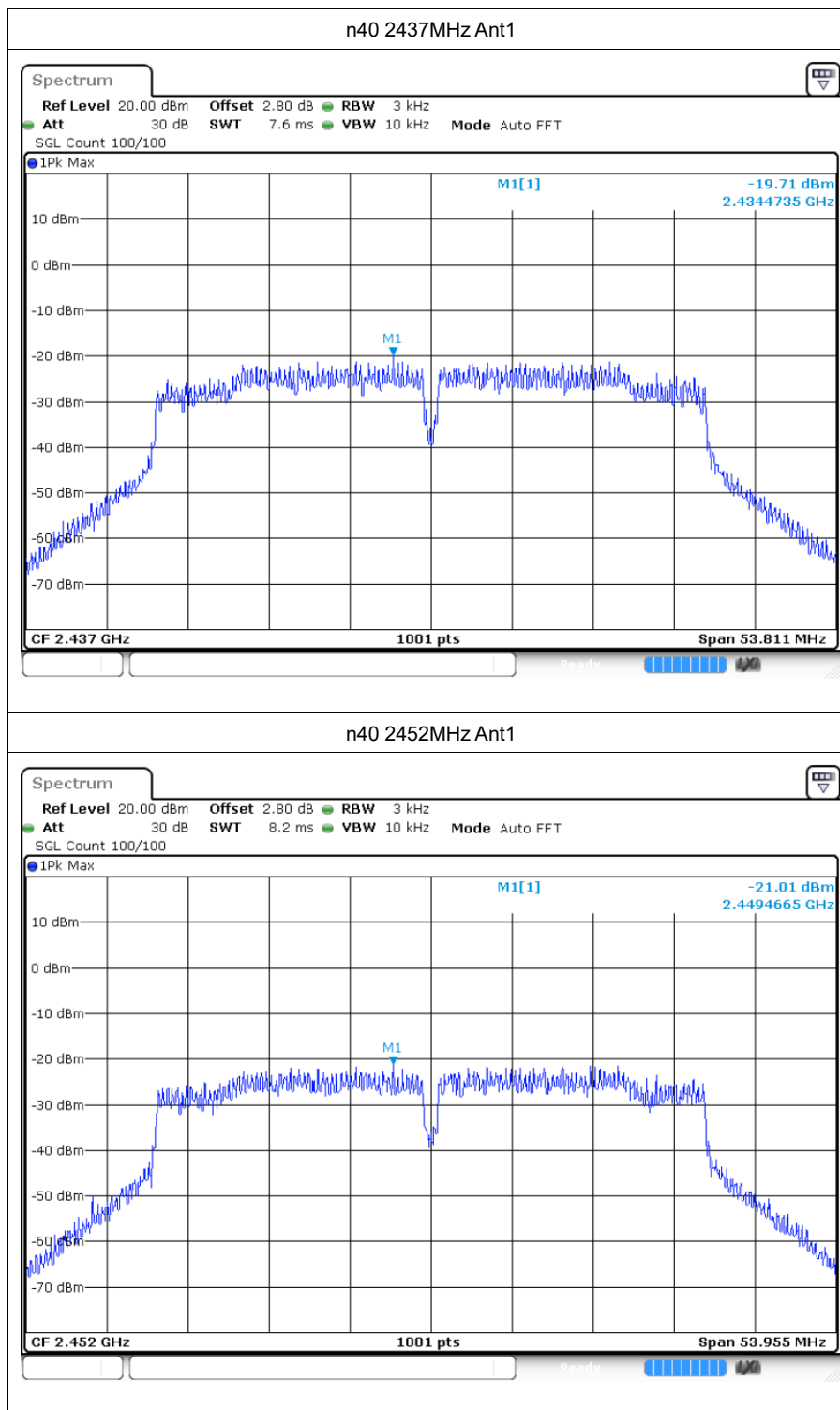


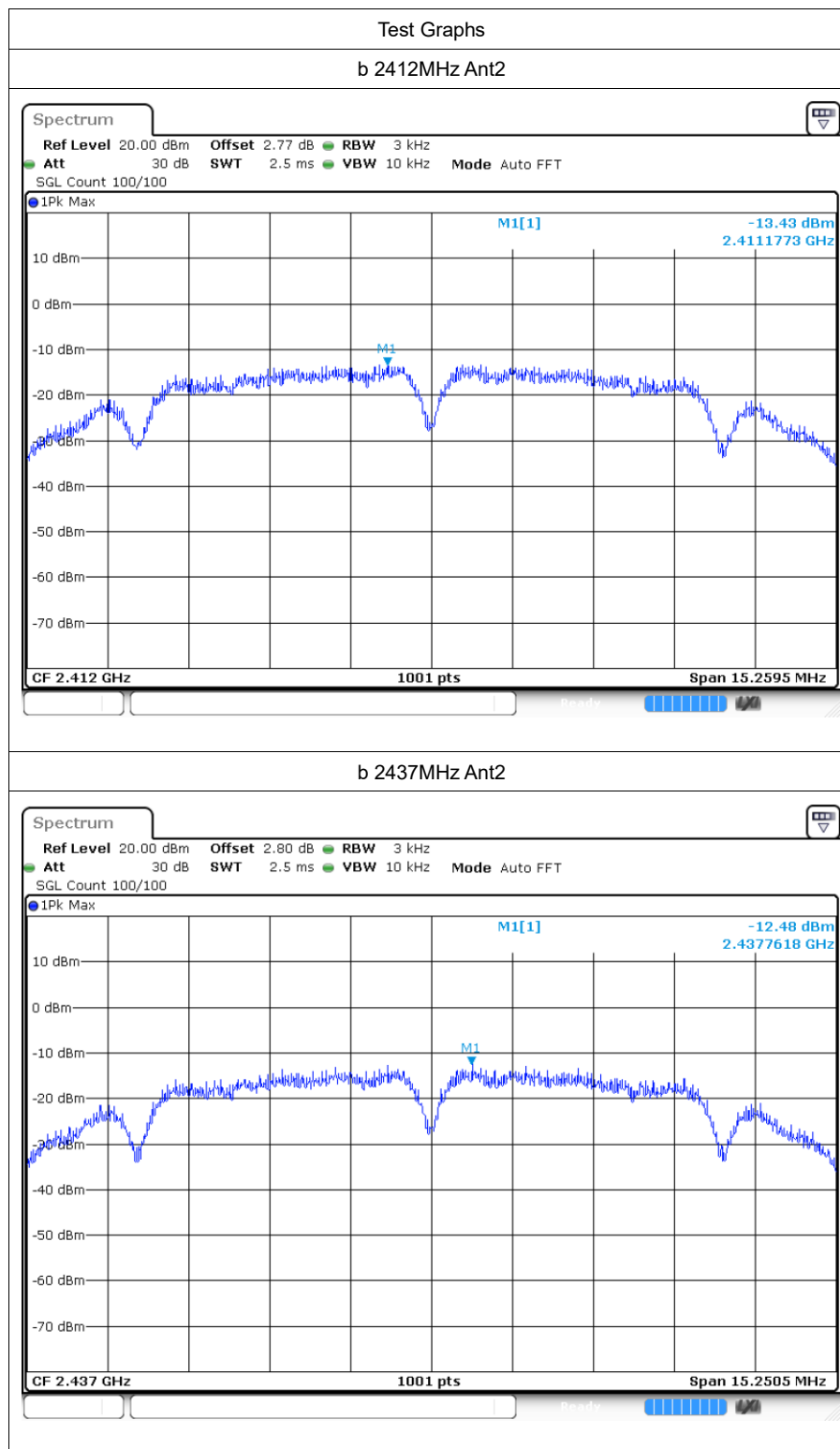


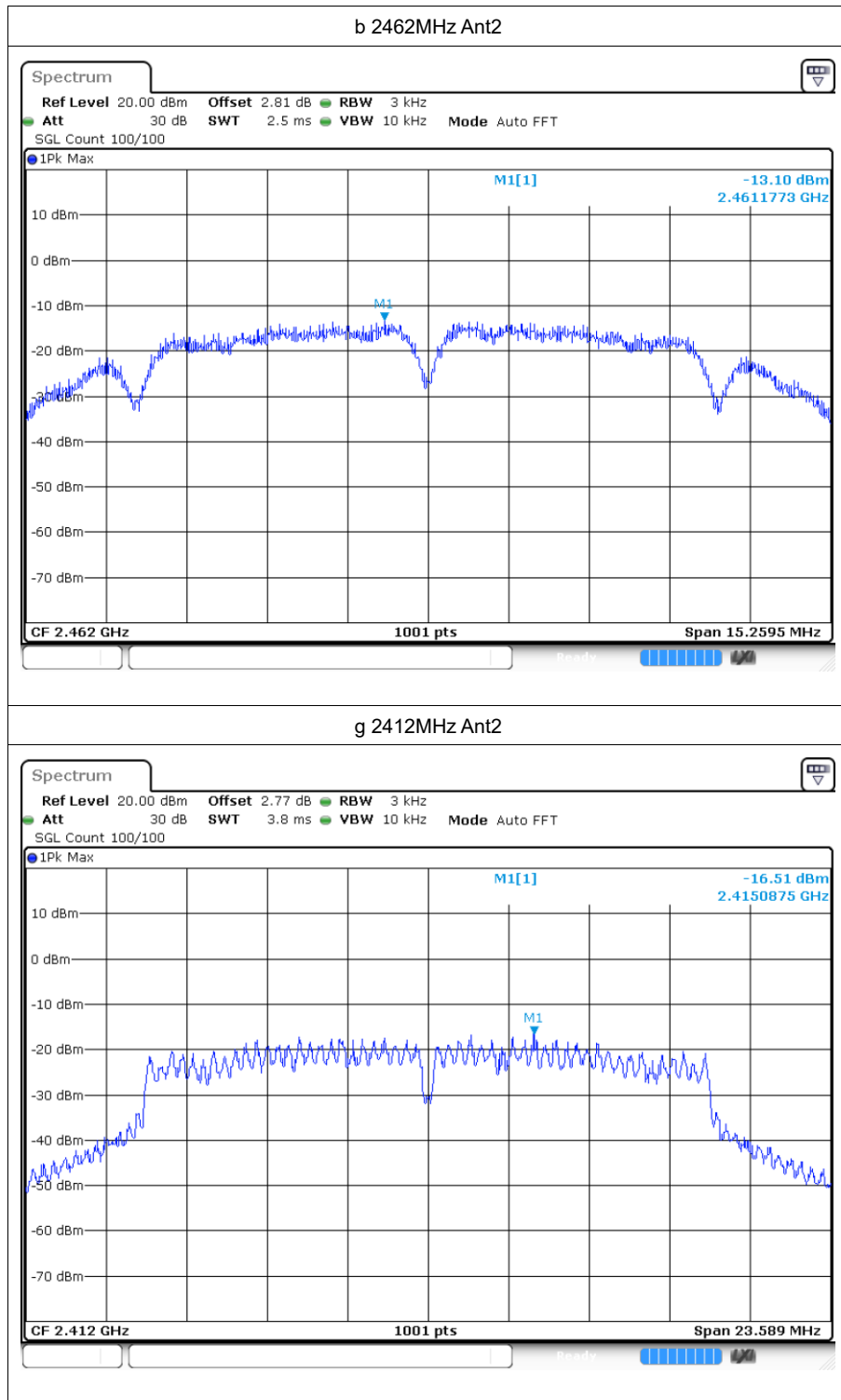


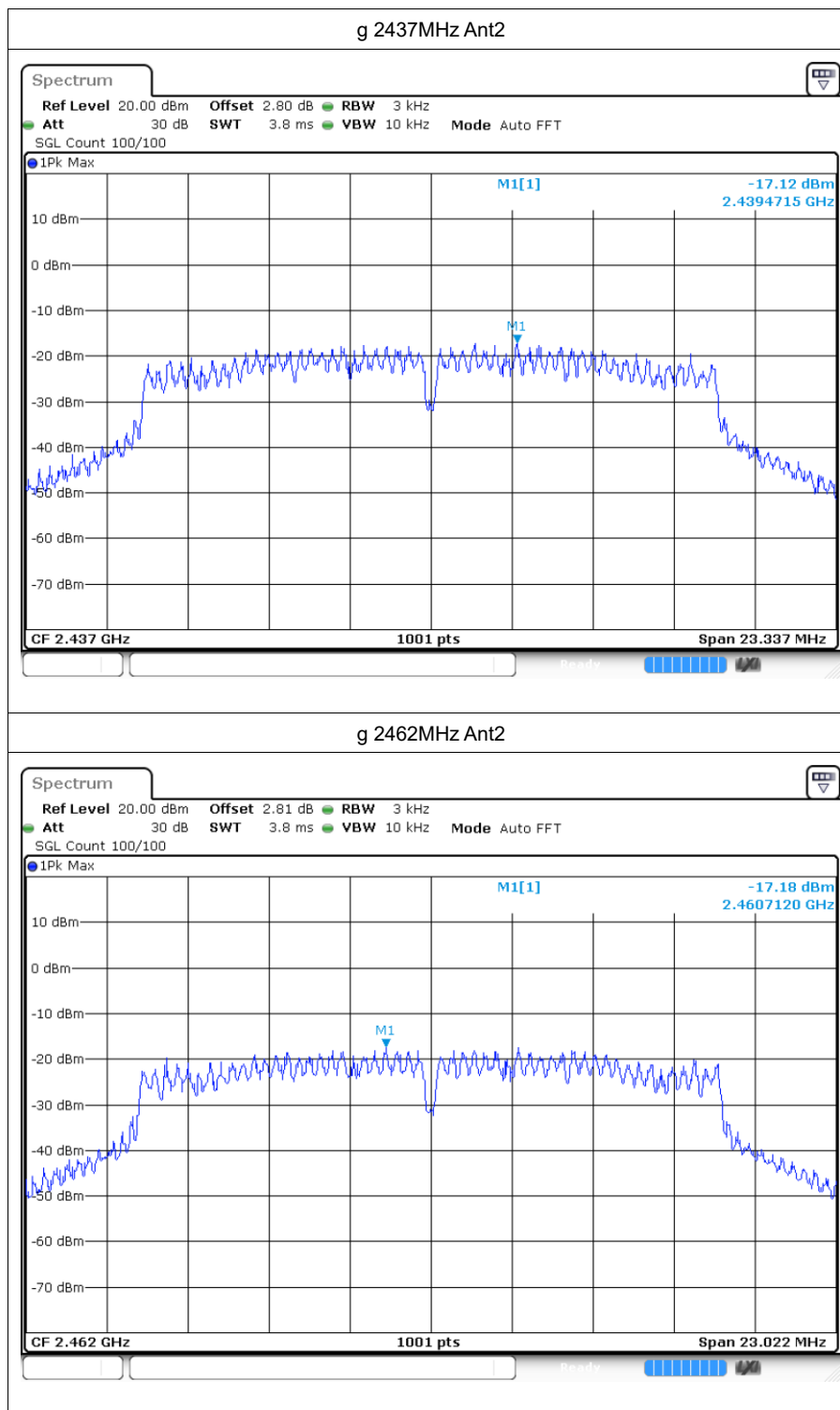


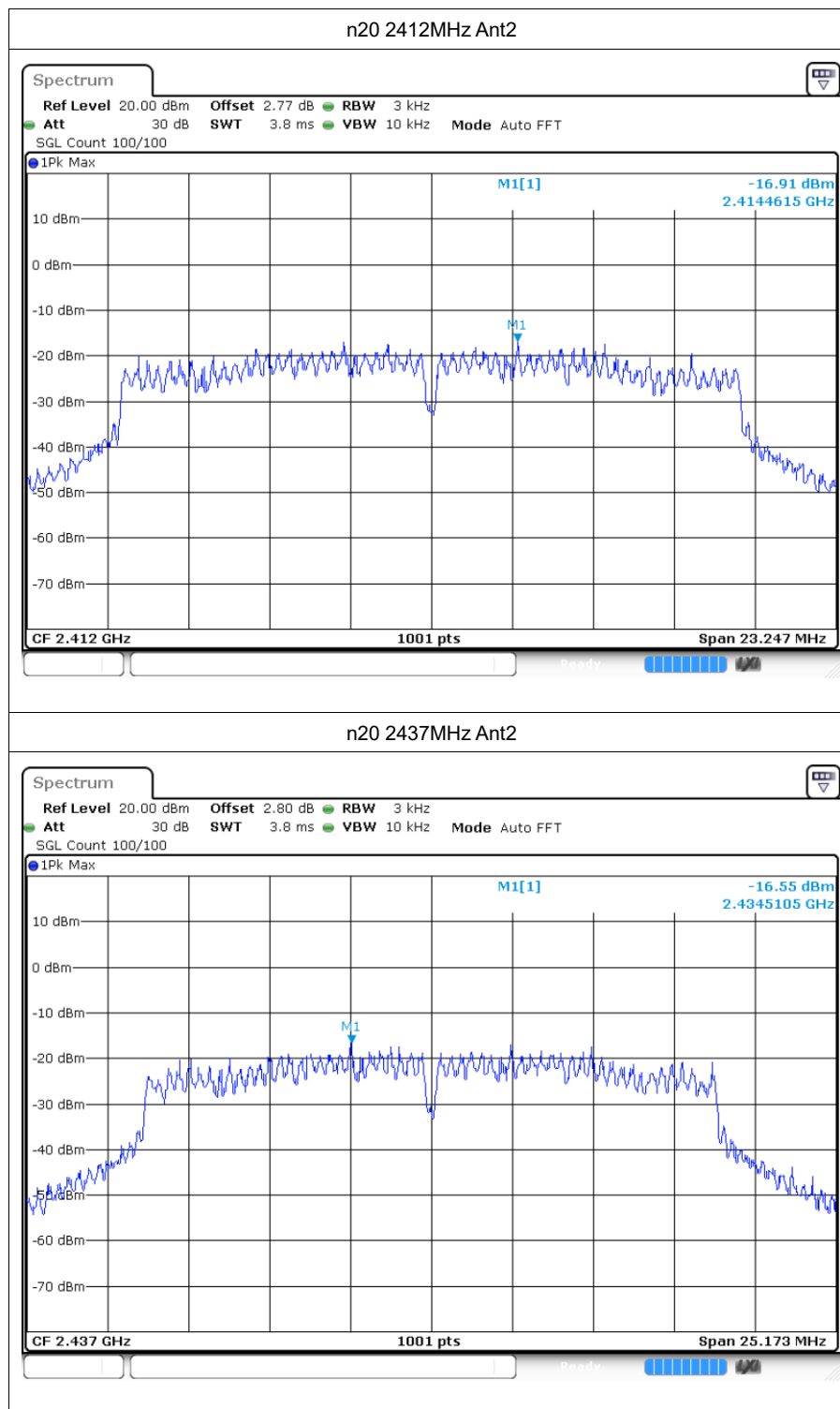


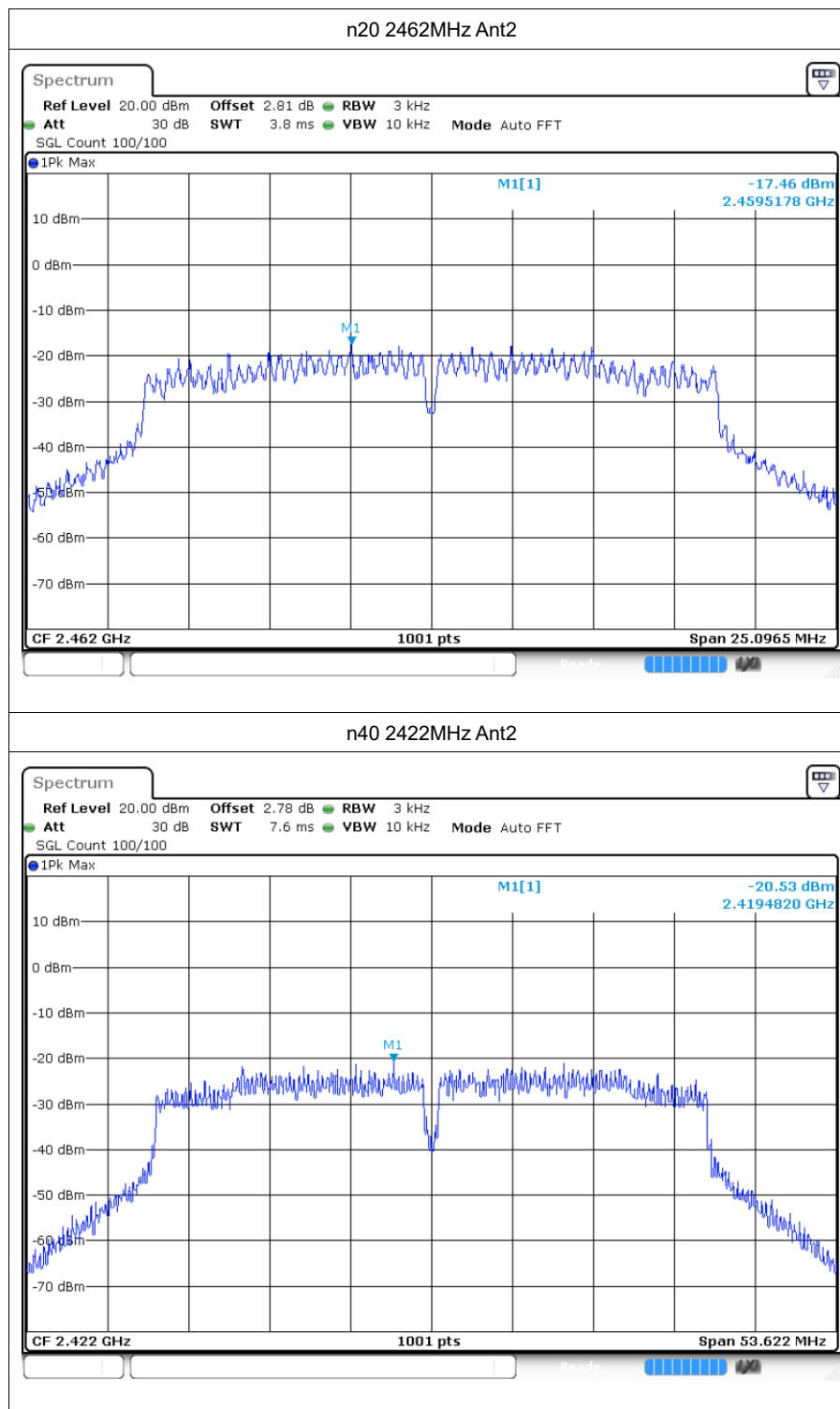


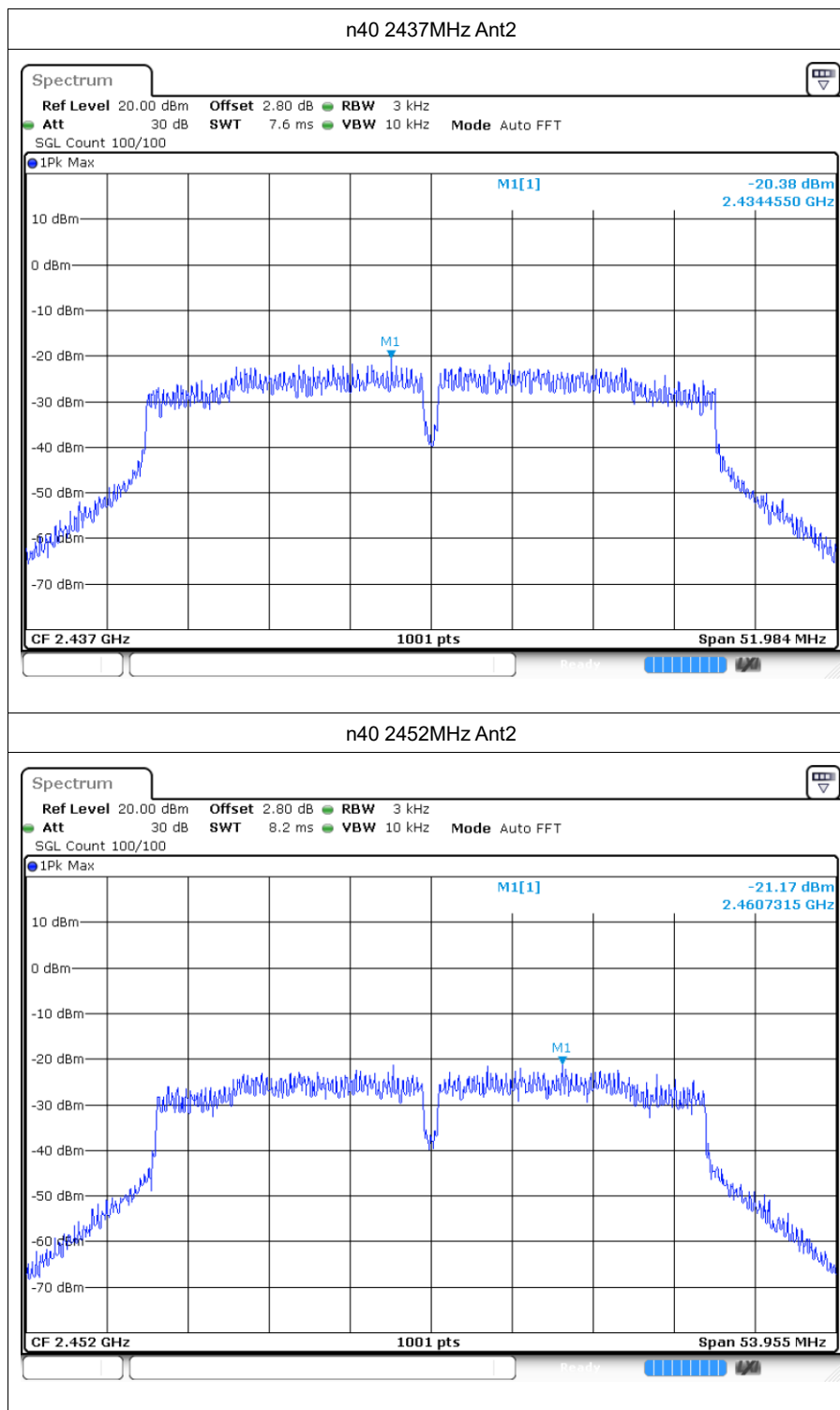












5 Band Edge

5.1 Test Result

Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-53.79	-20	Pass
b	2462	Ant1	-54.93	-20	Pass
g	2412	Ant1	-51.37	-20	Pass
g	2462	Ant1	-53.32	-20	Pass
n20	2412	Ant1	-52.35	-20	Pass
n20	2462	Ant1	-52.79	-20	Pass
n40	2422	Ant1	-49.31	-20	Pass
n40	2452	Ant1	-48.99	-20	Pass

Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant2	-54.28	-20	Pass
b	2462	Ant2	-53.37	-20	Pass
g	2412	Ant2	-51.89	-20	Pass
g	2462	Ant2	-53.28	-20	Pass
n20	2412	Ant2	-51.04	-20	Pass
n20	2462	Ant2	-52.31	-20	Pass
n40	2422	Ant2	-47.63	-20	Pass
n40	2452	Ant2	-47.61	-20	Pass

5.2 Test Graphs

