



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Magic kids video walkie-talkie

Trade Mark: N/A

Test Model: M1

Environmental Conditions

Temperature:	24.8° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Emiya Lin
Supervised by:	Simba Huang



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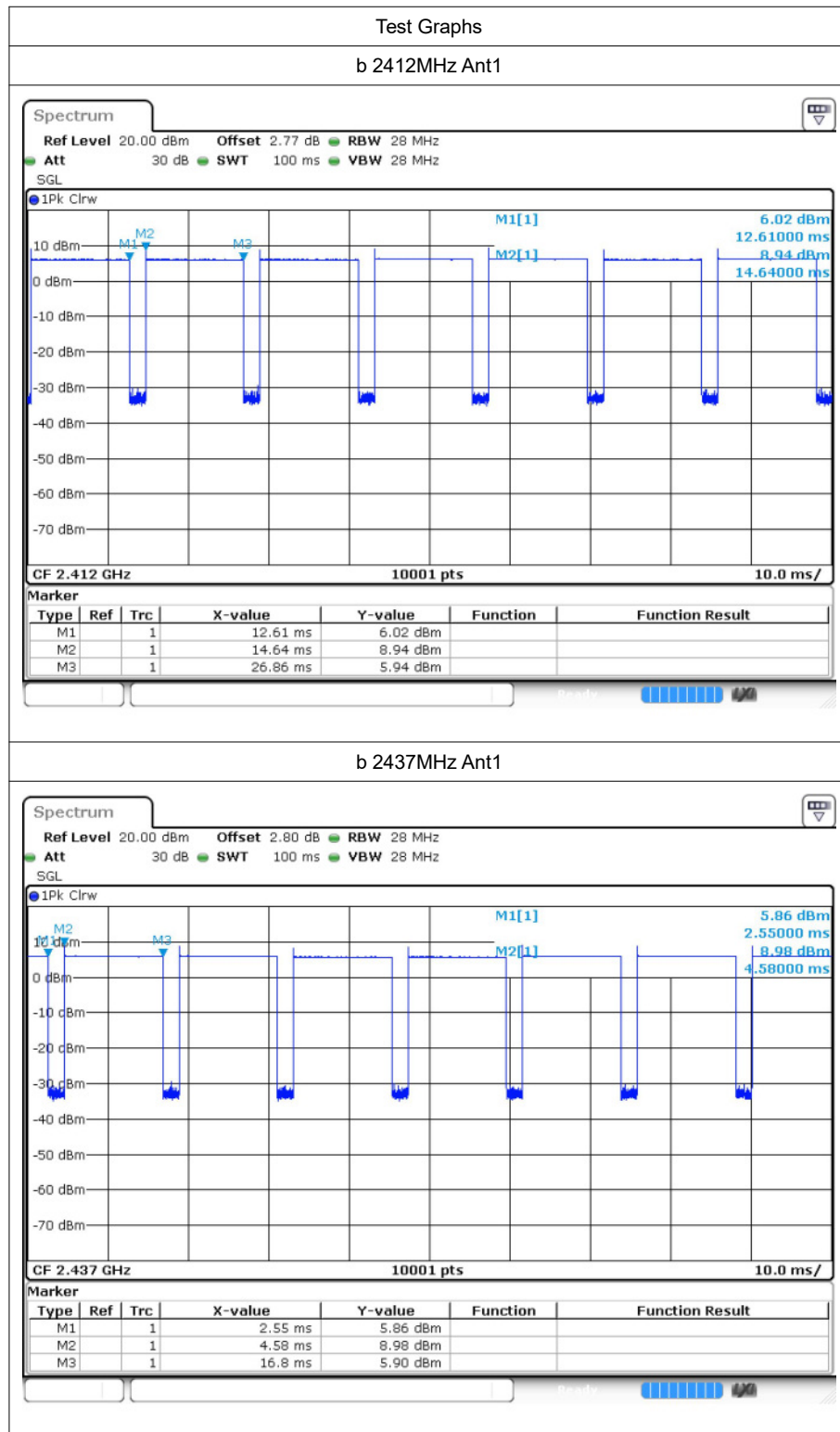


1 Duty Cycle

1.1 Test Result

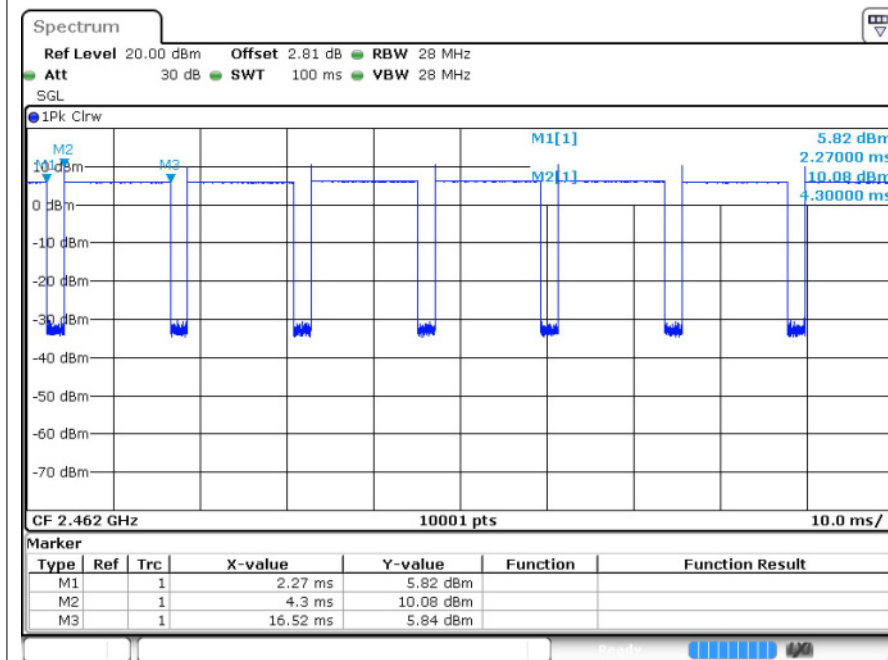
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor	1/T (kHz)
b	2412	Ant1	85.63	0.67	0.08
b	2437	Ant1	85.9	0.66	0.08
b	2462	Ant1	85.91	0.66	0.08
g	2412	Ant1	50.34	2.98	0.49
g	2437	Ant1	49.62	3.04	0.49
g	2462	Ant1	49.95	3.02	0.49
n20	2412	Ant1	49.33	3.07	0.53
n20	2437	Ant1	49.18	3.08	0.53
n20	2462	Ant1	47.97	3.19	0.53

1.2 Test Graphs

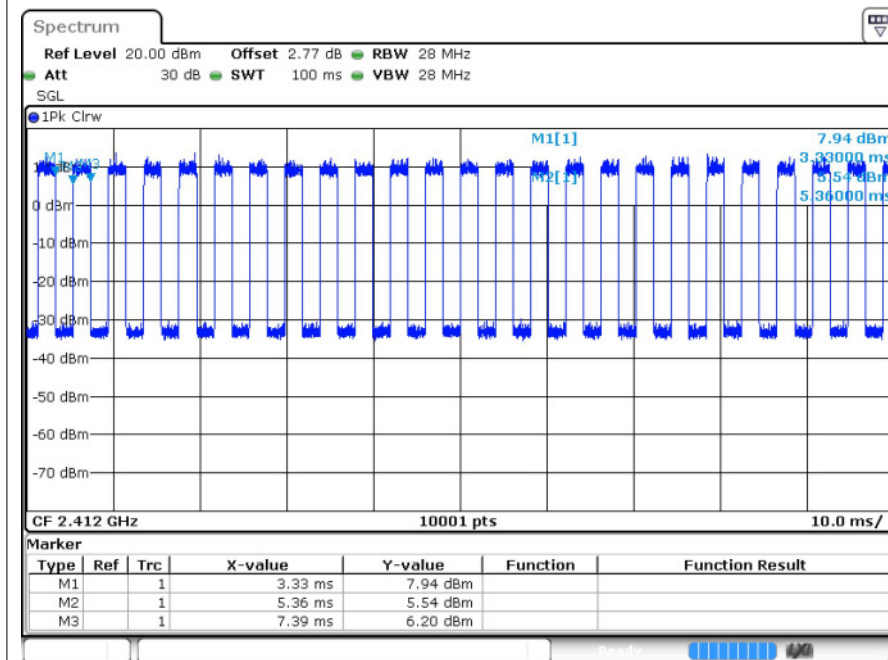


Test Graphs

b 2462MHz Ant1

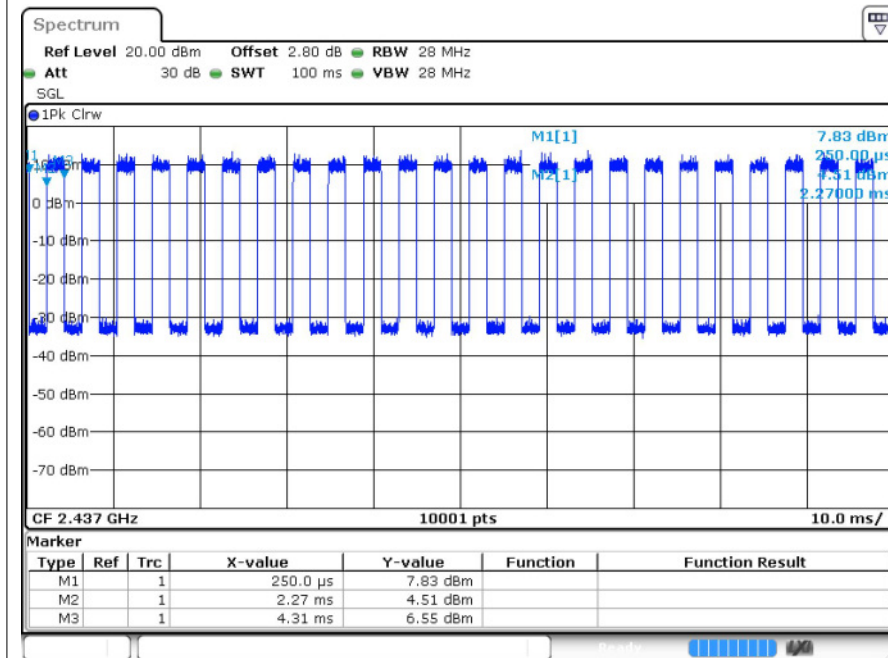


g 2412MHz Ant1

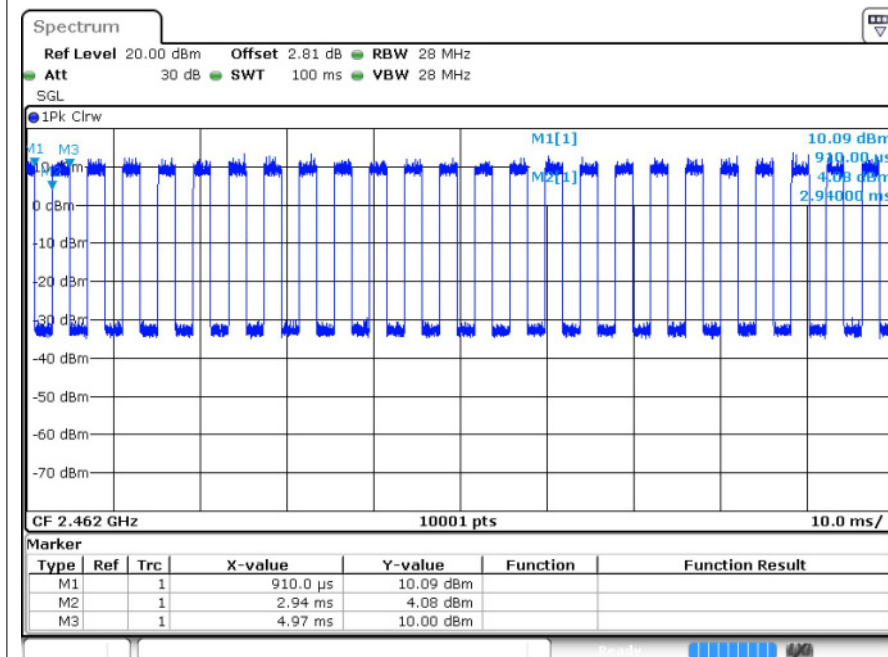


Test Graphs

g 2437MHz Ant1

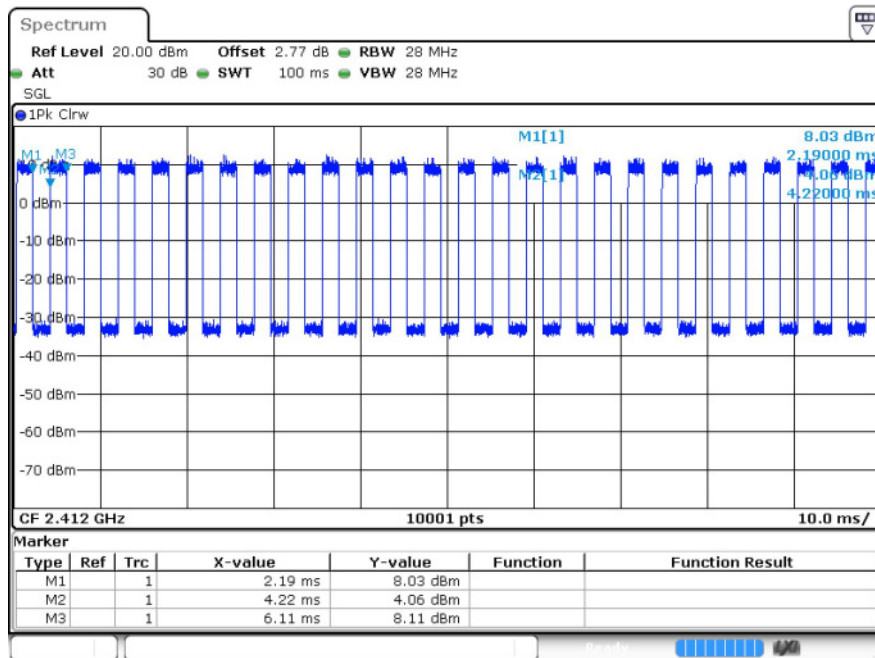


g 2462MHz Ant1

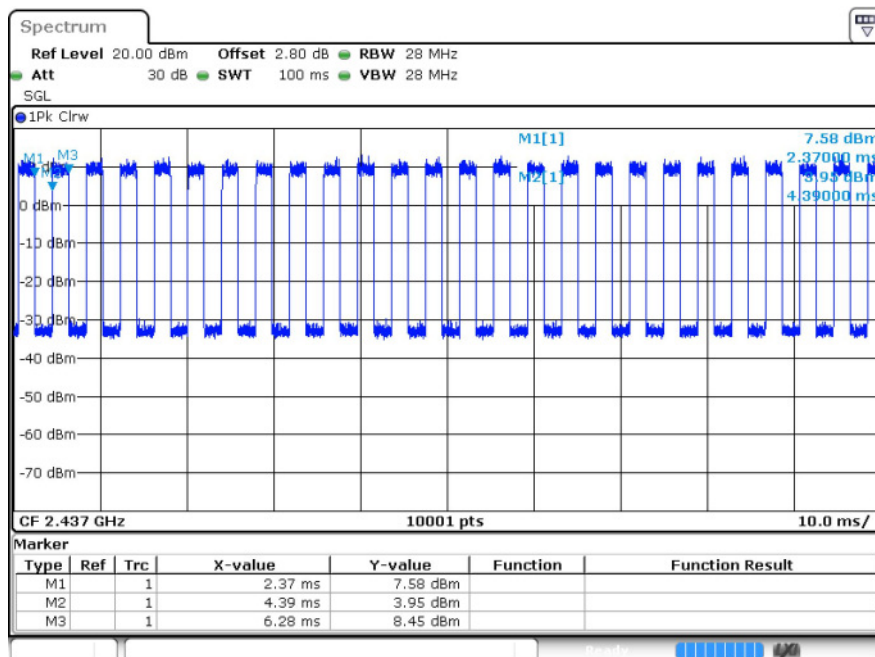


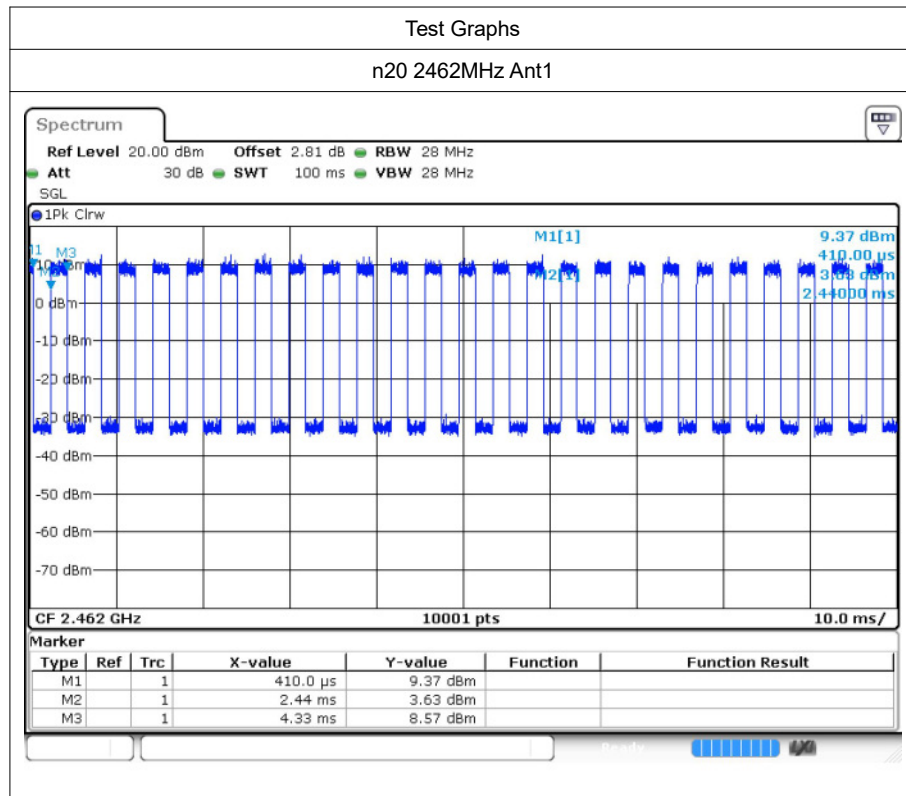
Test Graphs

n20 2412MHz Ant1



n20 2437MHz Ant1





2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant1	8.07	30	Pass
b	2437	Ant1	8.23	30	Pass
b	2462	Ant1	7.8	30	Pass
g	2412	Ant1	7.68	30	Pass
g	2437	Ant1	7.87	30	Pass
g	2462	Ant1	7.21	30	Pass
n20	2412	Ant1	7.52	30	Pass
n20	2437	Ant1	7.92	30	Pass
n20	2462	Ant1	7.12	30	Pass

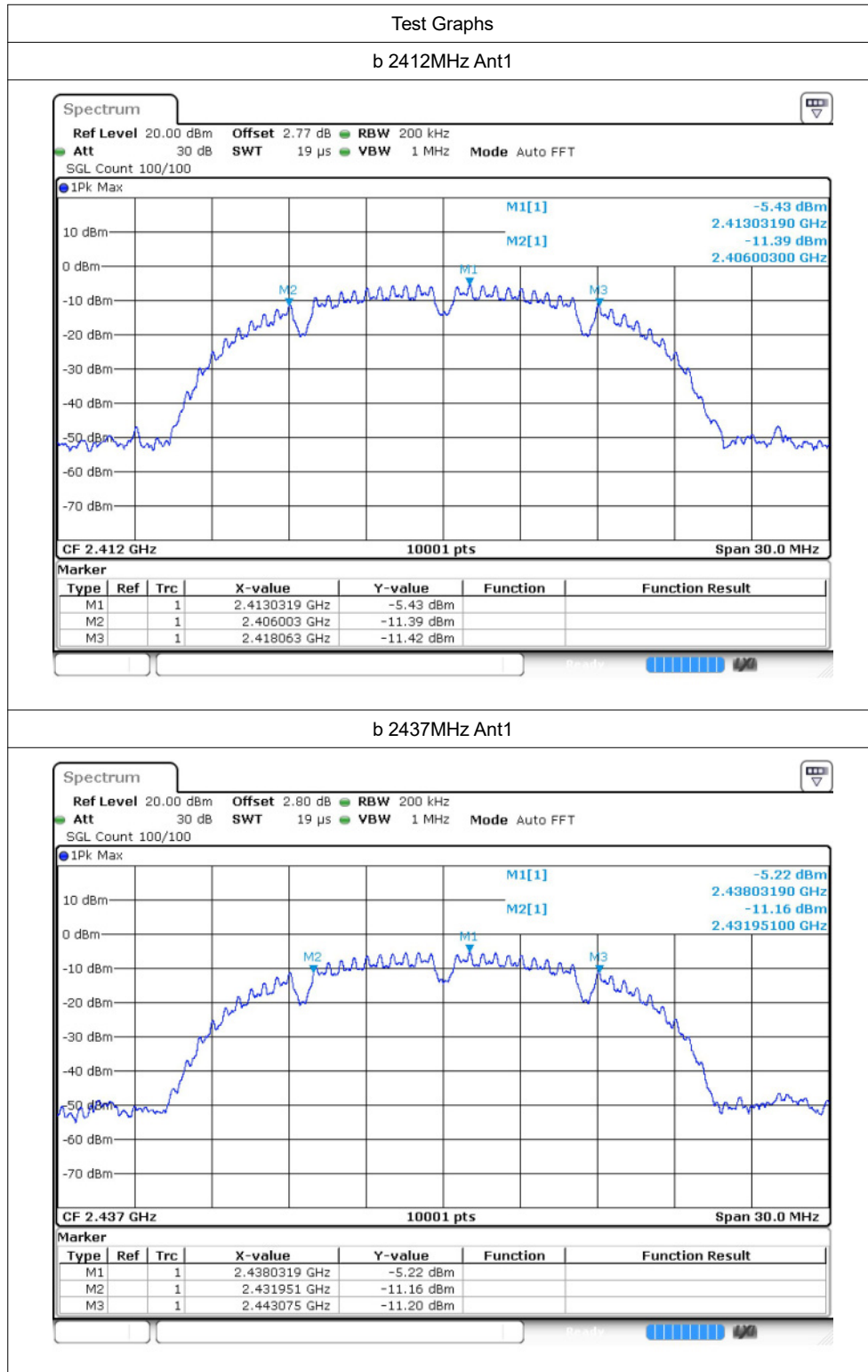


3 -6dB Bandwidth

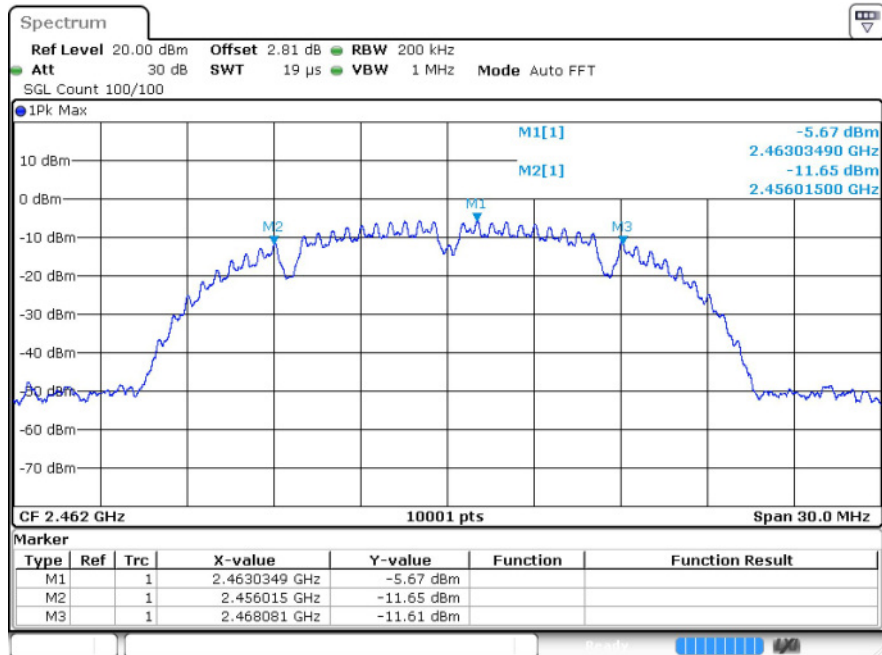
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	12.06	0.5	Pass
b	2437	Ant1	11.124	0.5	Pass
b	2462	Ant1	12.066	0.5	Pass
g	2412	Ant1	16.419	0.5	Pass
g	2437	Ant1	16.452	0.5	Pass
g	2462	Ant1	16.551	0.5	Pass
n20	2412	Ant1	17.622	0.5	Pass
n20	2437	Ant1	17.604	0.5	Pass
n20	2462	Ant1	17.607	0.5	Pass

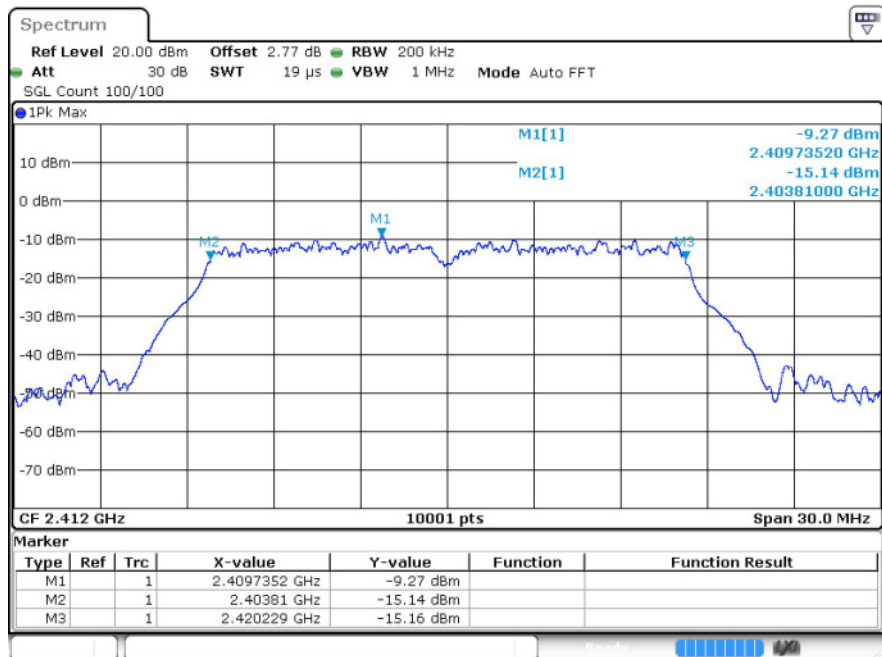
3.2 Test Graphs



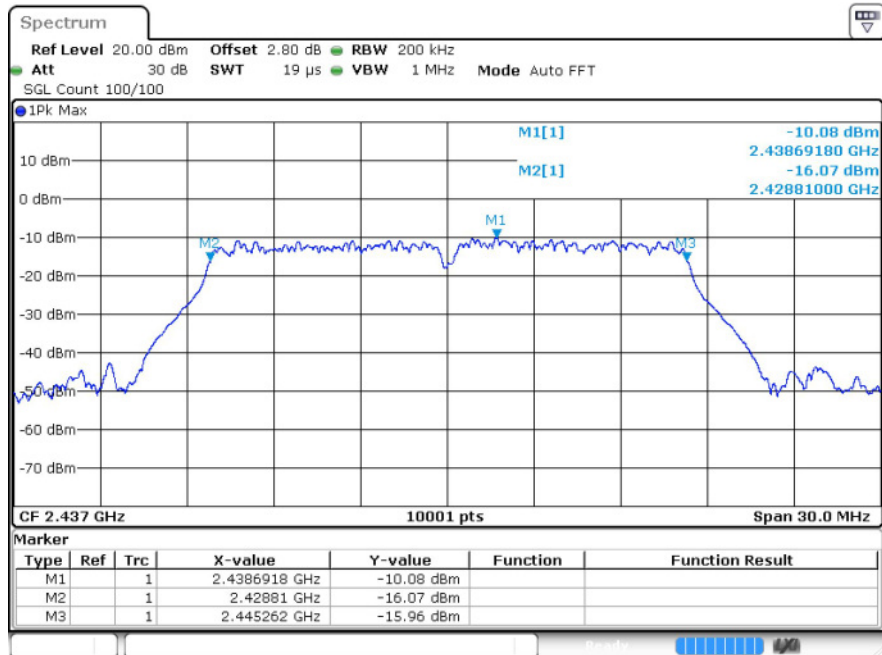
b 2462MHz Ant1



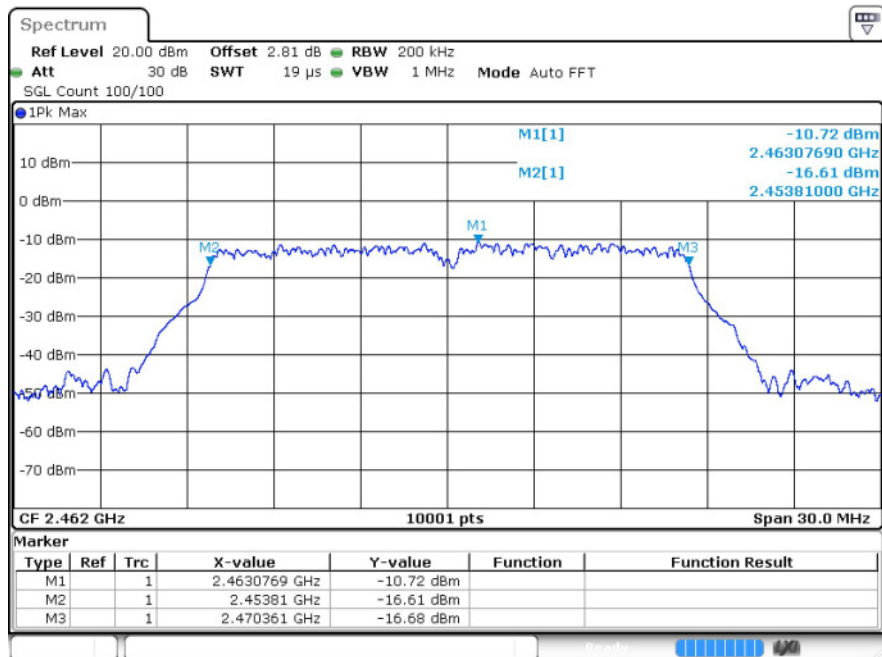
g 2412MHz Ant1



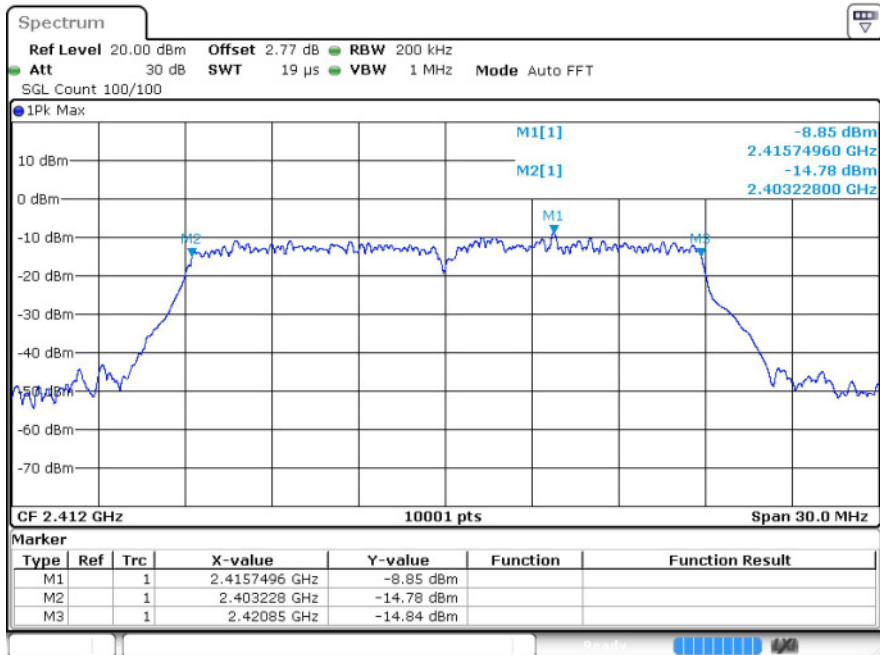
g 2437MHz Ant1



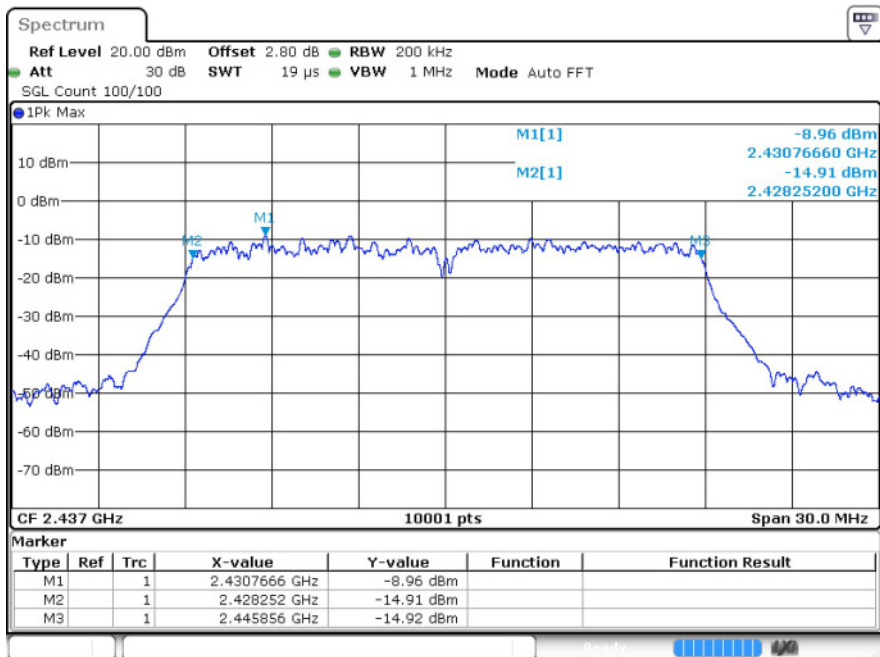
g 2462MHz Ant1

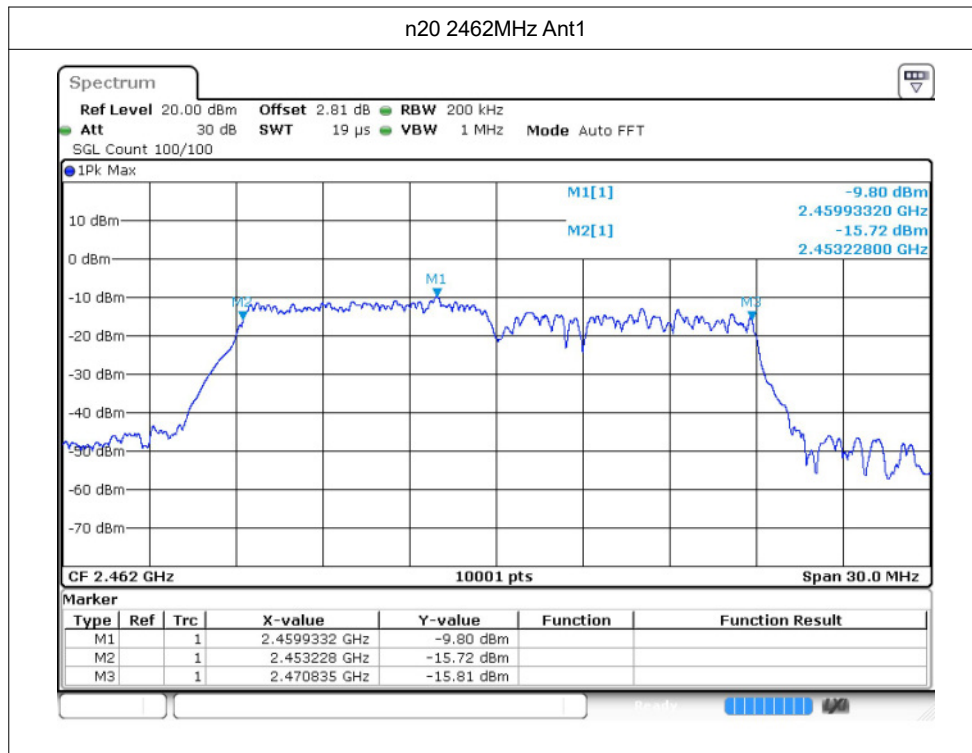


n20 2412MHz Ant1



n20 2437MHz Ant1



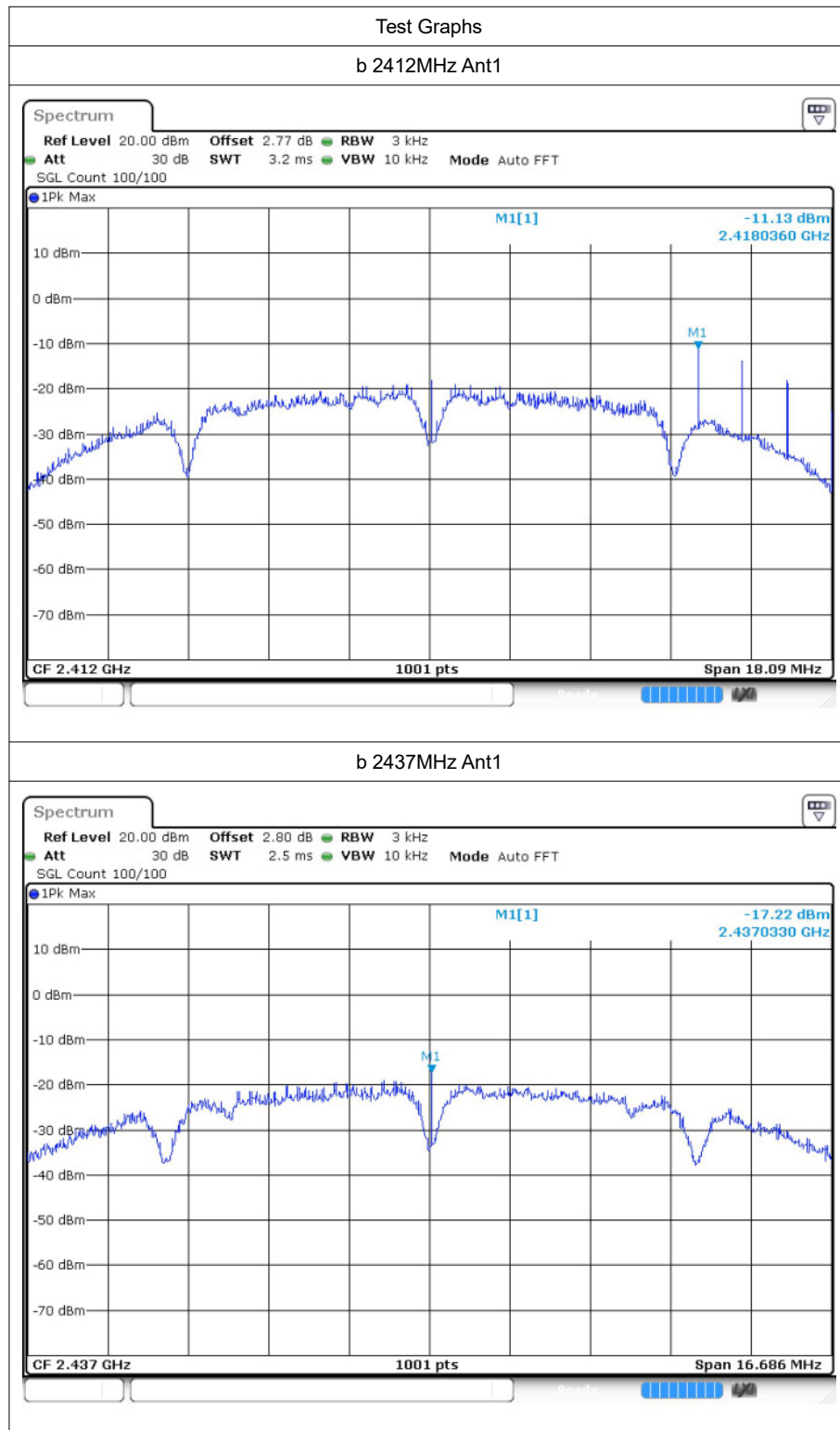


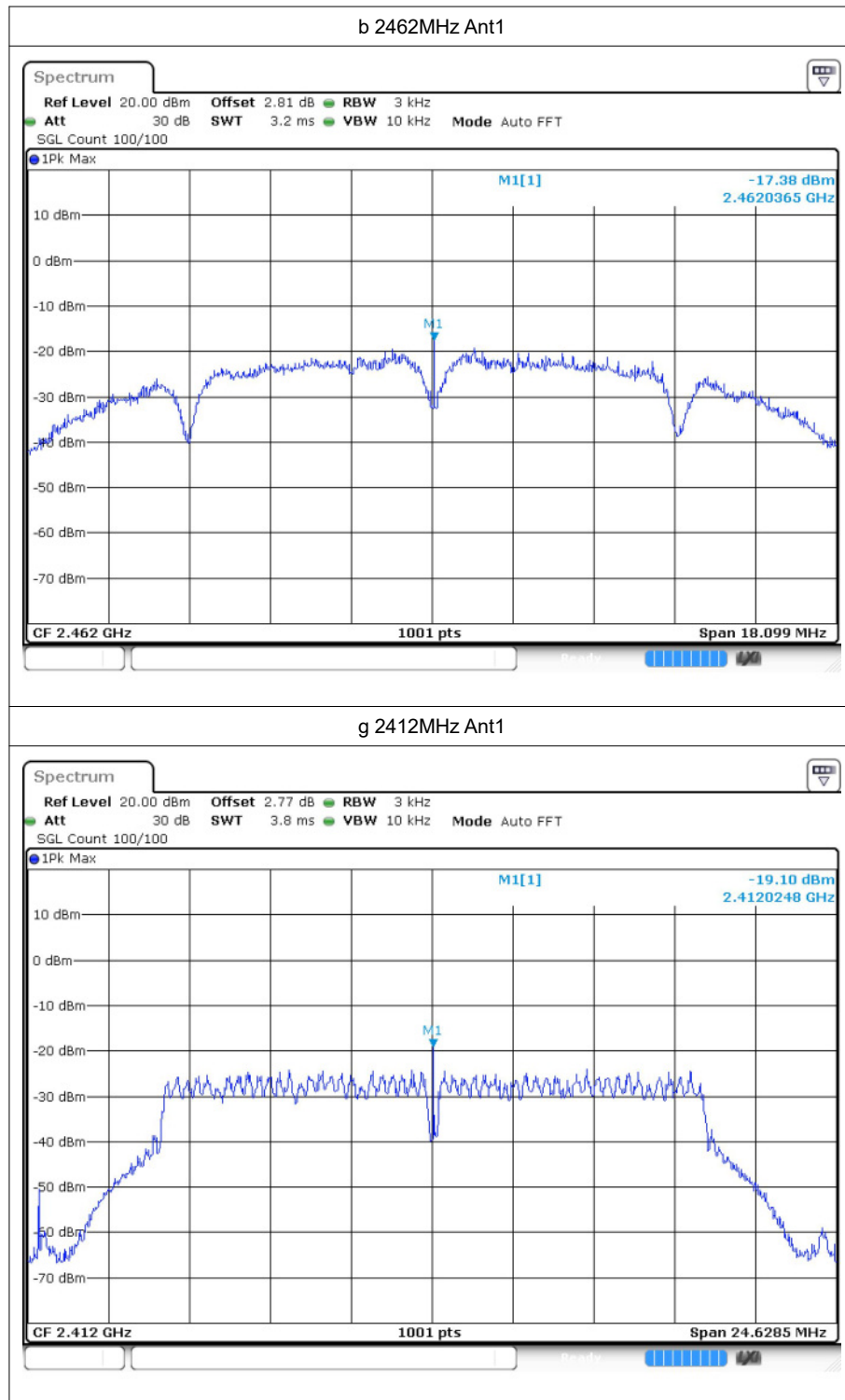
4 Maximum Power Spectral Density Level

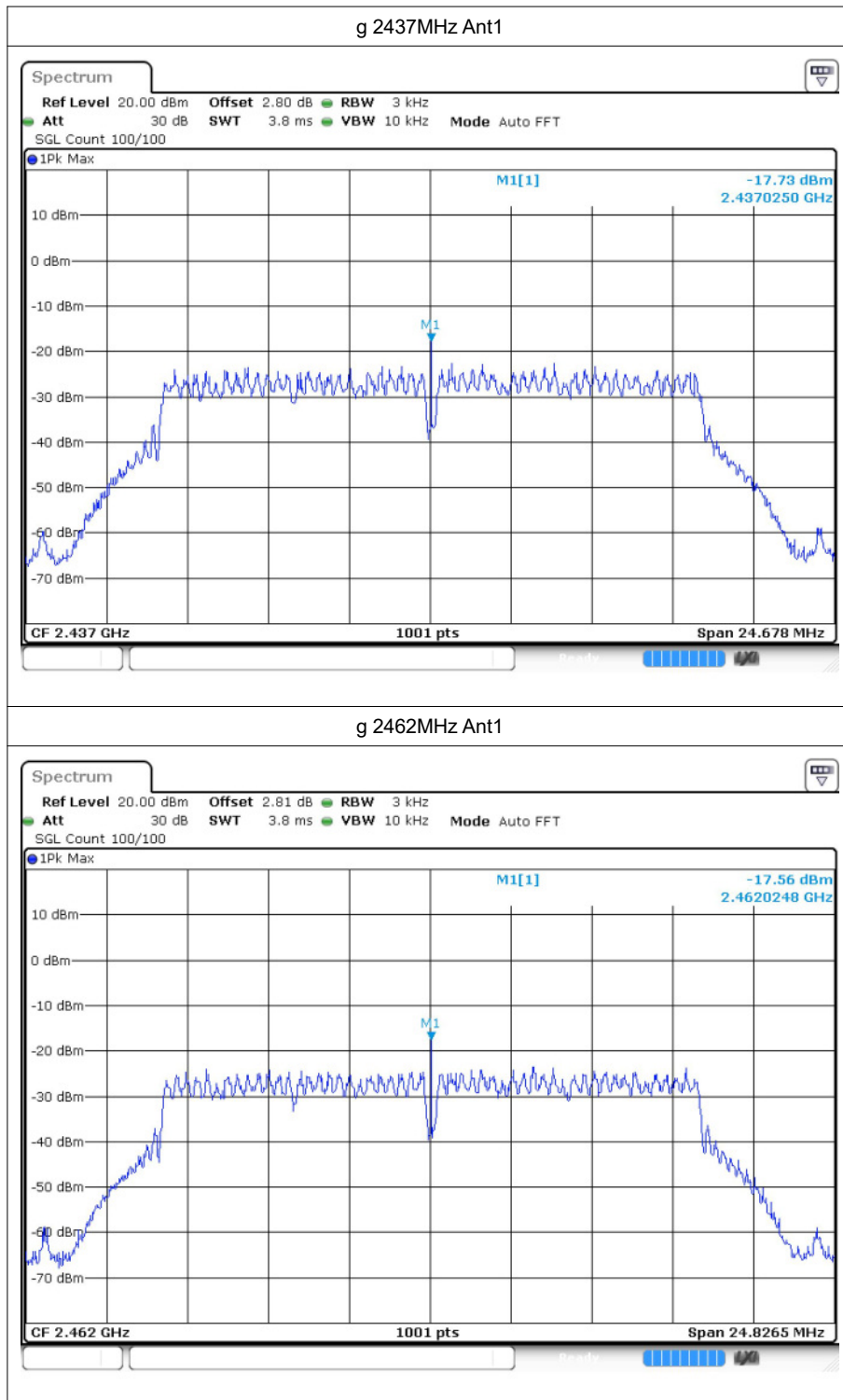
4.1 Test Result

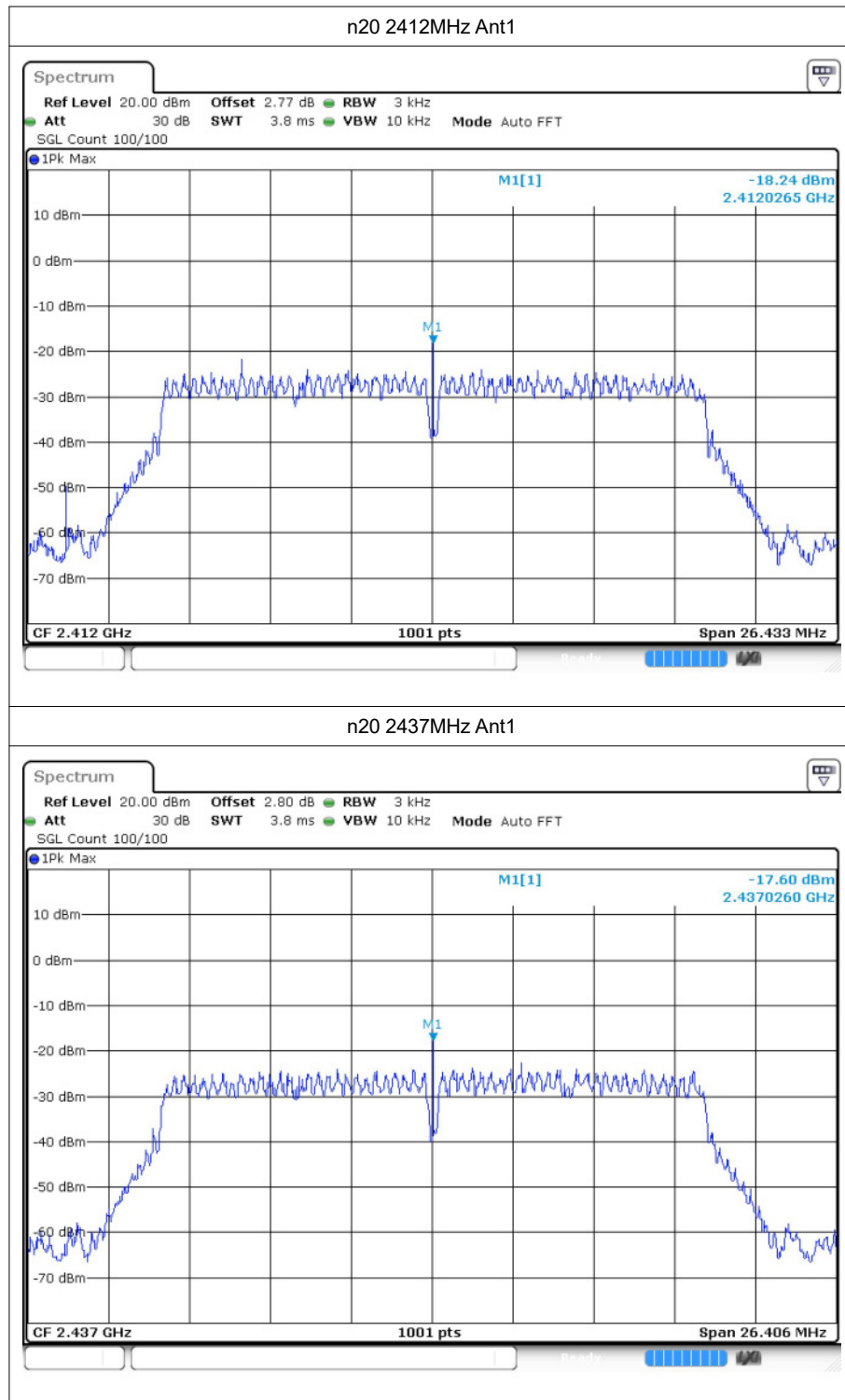
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
b	2412	Ant1	-11.13	≤8	Pass
b	2437	Ant1	-17.22	≤8	Pass
b	2462	Ant1	-17.38	≤8	Pass
g	2412	Ant1	-19.1	≤8	Pass
g	2437	Ant1	-17.73	≤8	Pass
g	2462	Ant1	-17.56	≤8	Pass
n20	2412	Ant1	-18.24	≤8	Pass
n20	2437	Ant1	-17.6	≤8	Pass
n20	2462	Ant1	-17.94	≤8	Pass

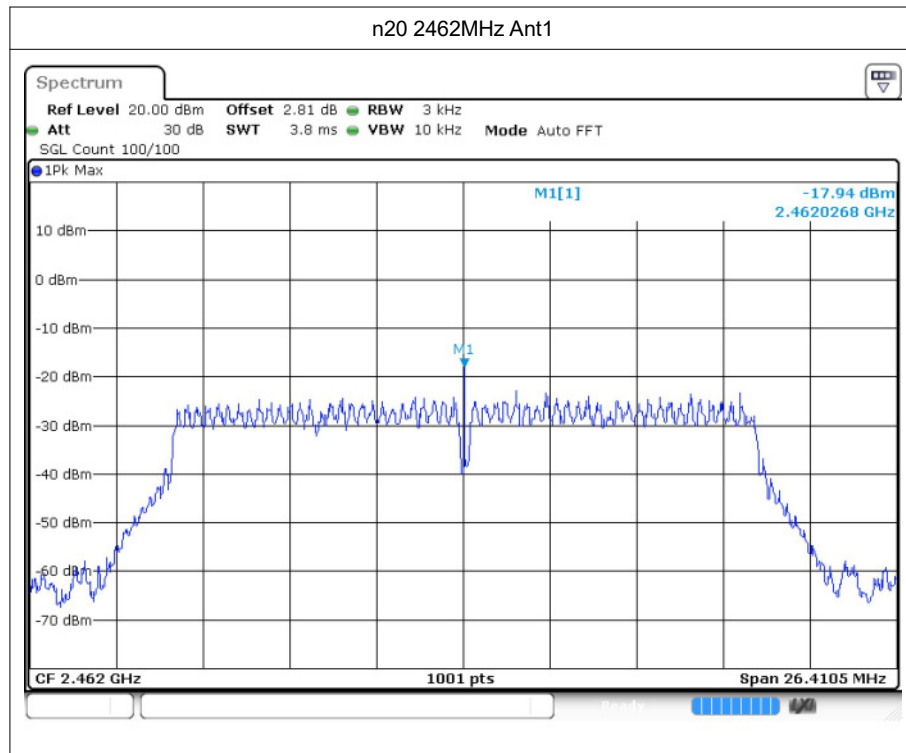
4.2 Test Graphs











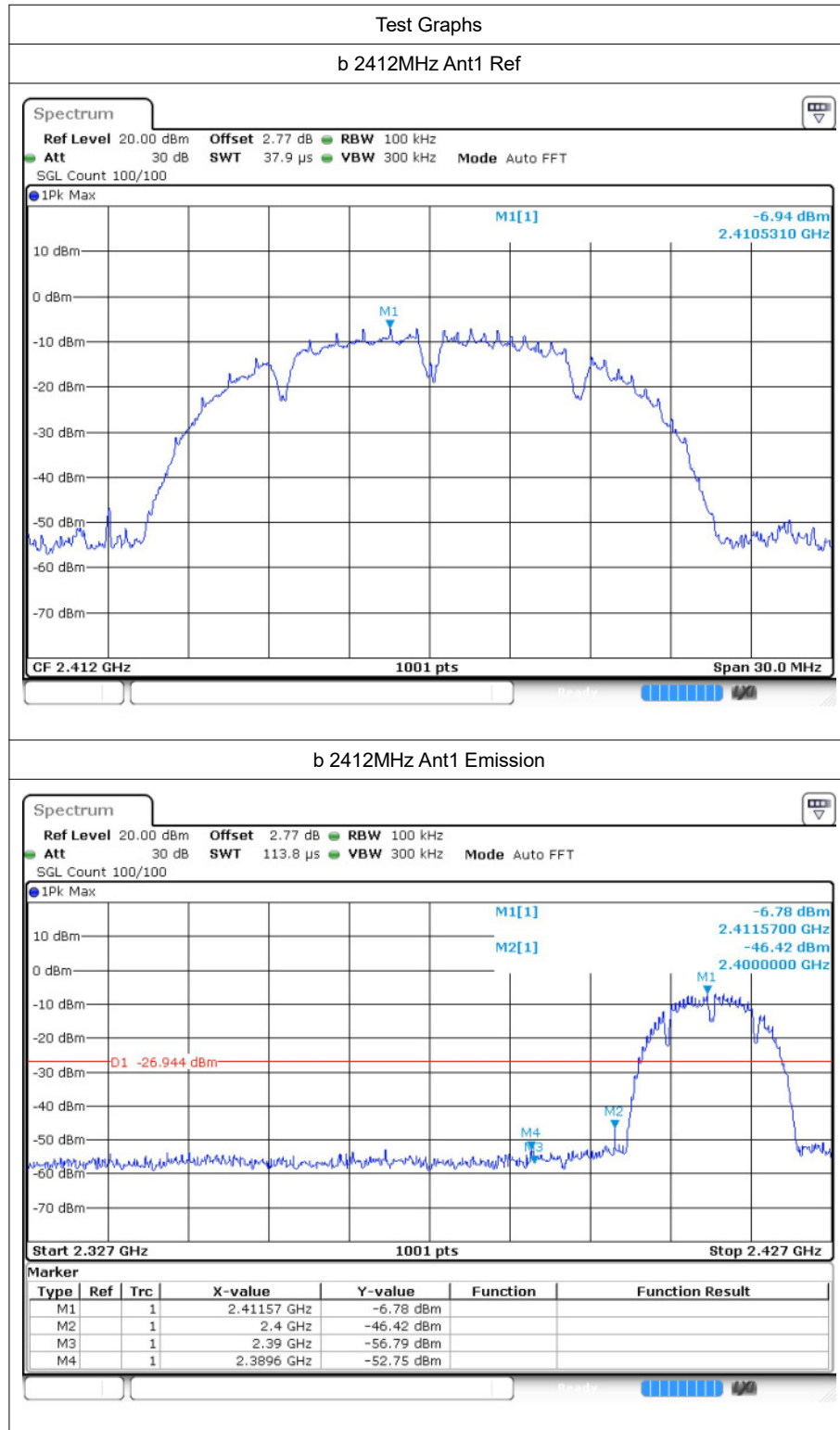


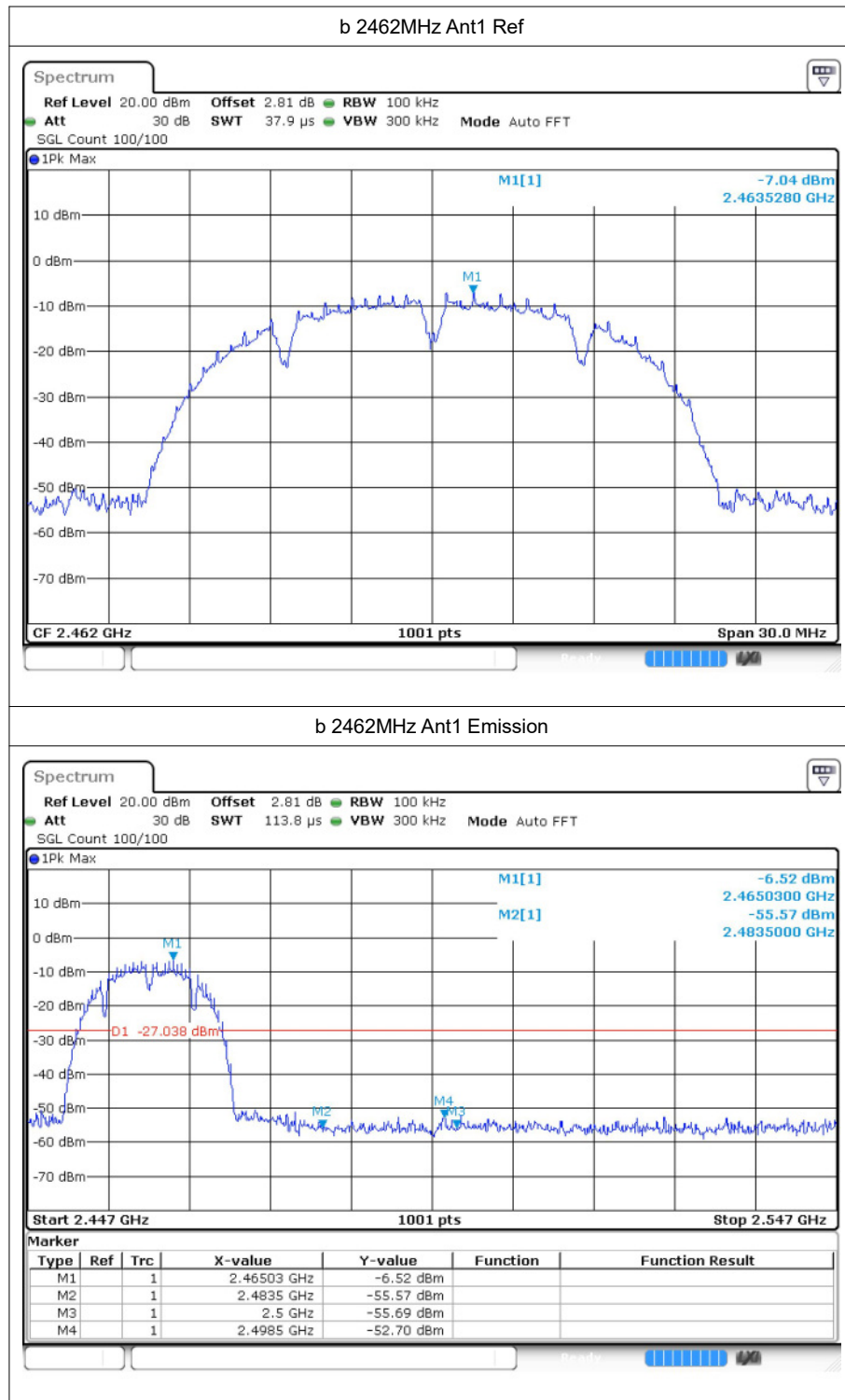
5 Band Edge

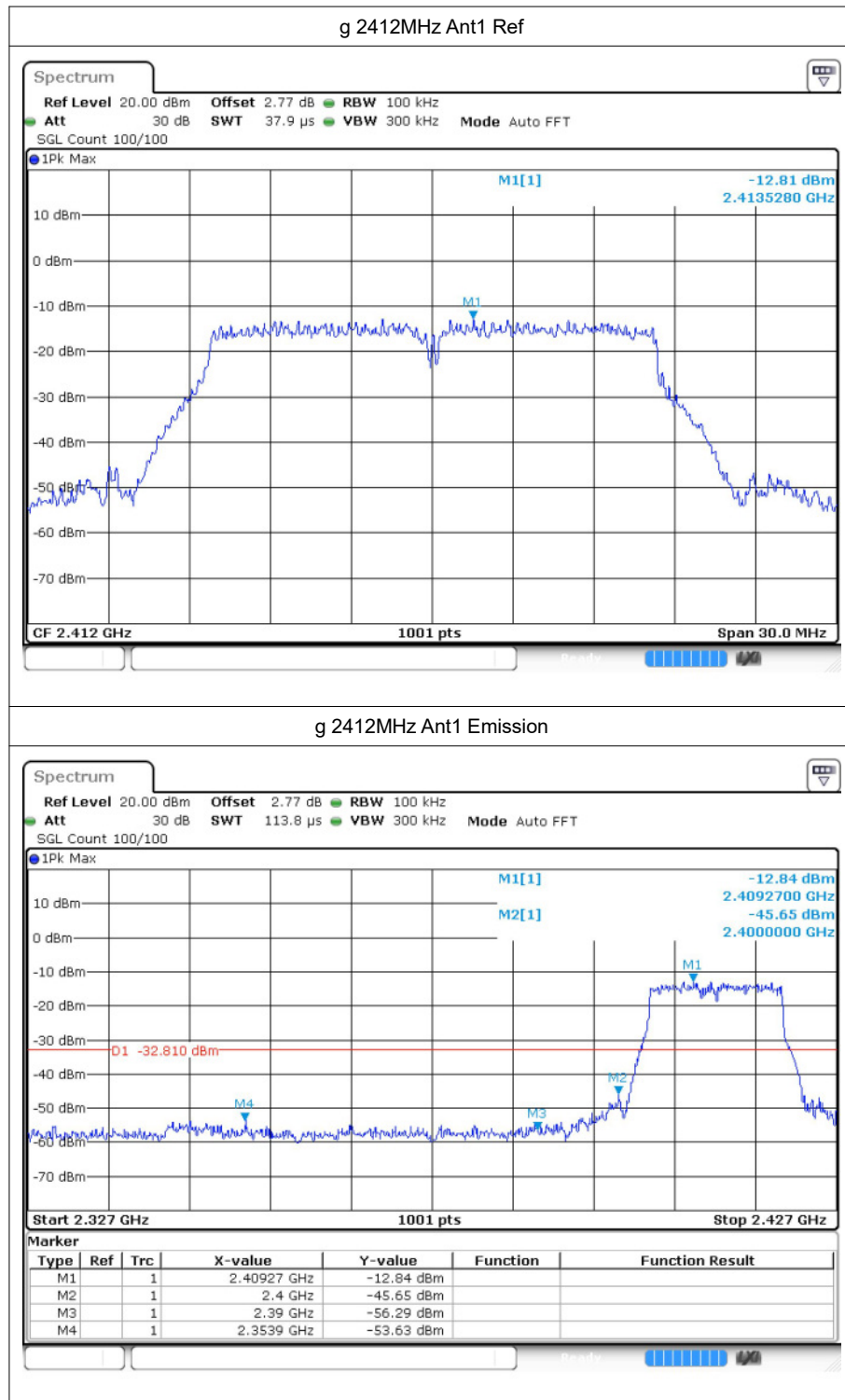
5.1 Test Result

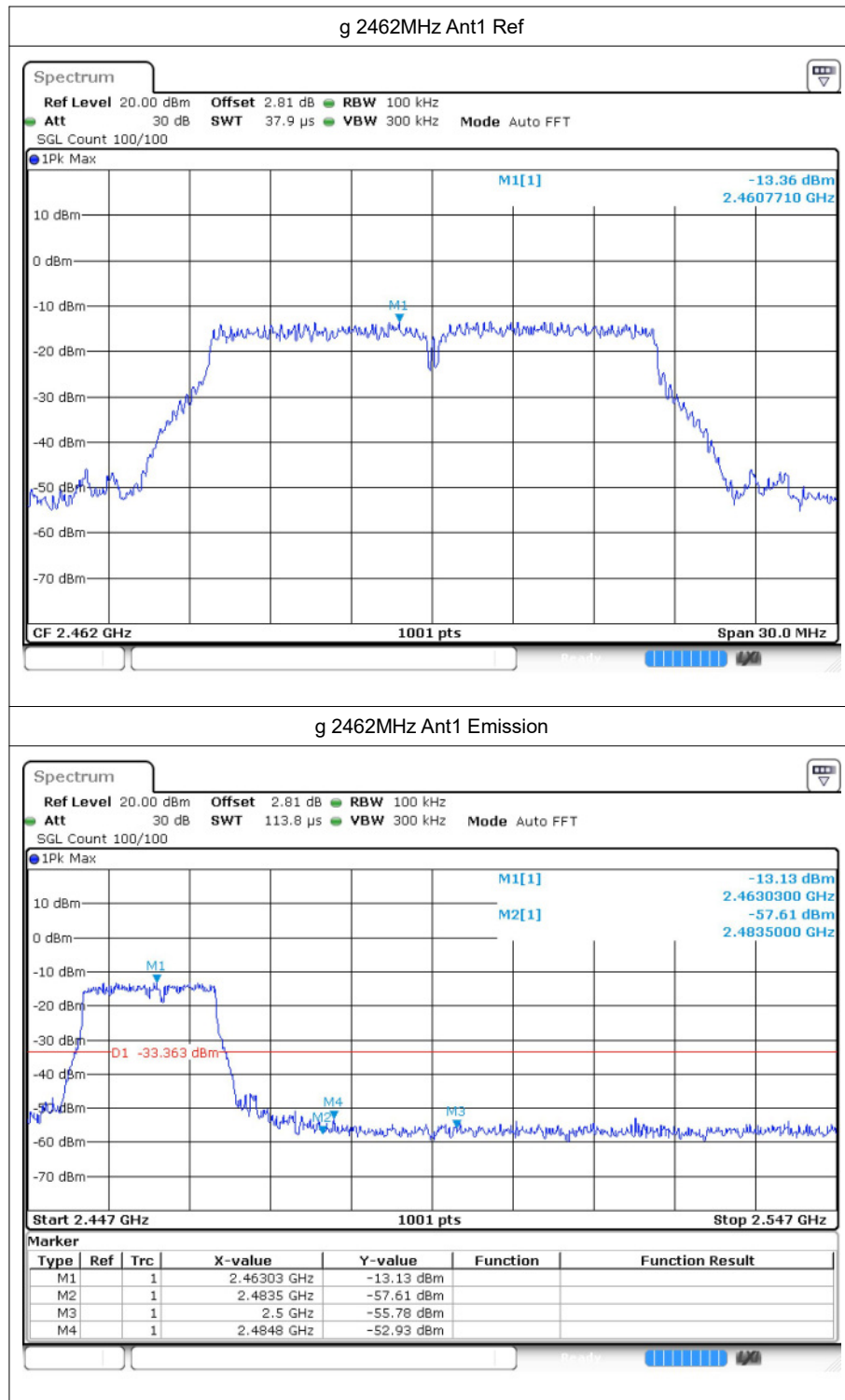
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-45.8	-20	Pass
b	2462	Ant1	-45.66	-20	Pass
g	2412	Ant1	-40.82	-20	Pass
g	2462	Ant1	-39.57	-20	Pass
n20	2412	Ant1	-41.28	-20	Pass
n20	2462	Ant1	-39.86	-20	Pass

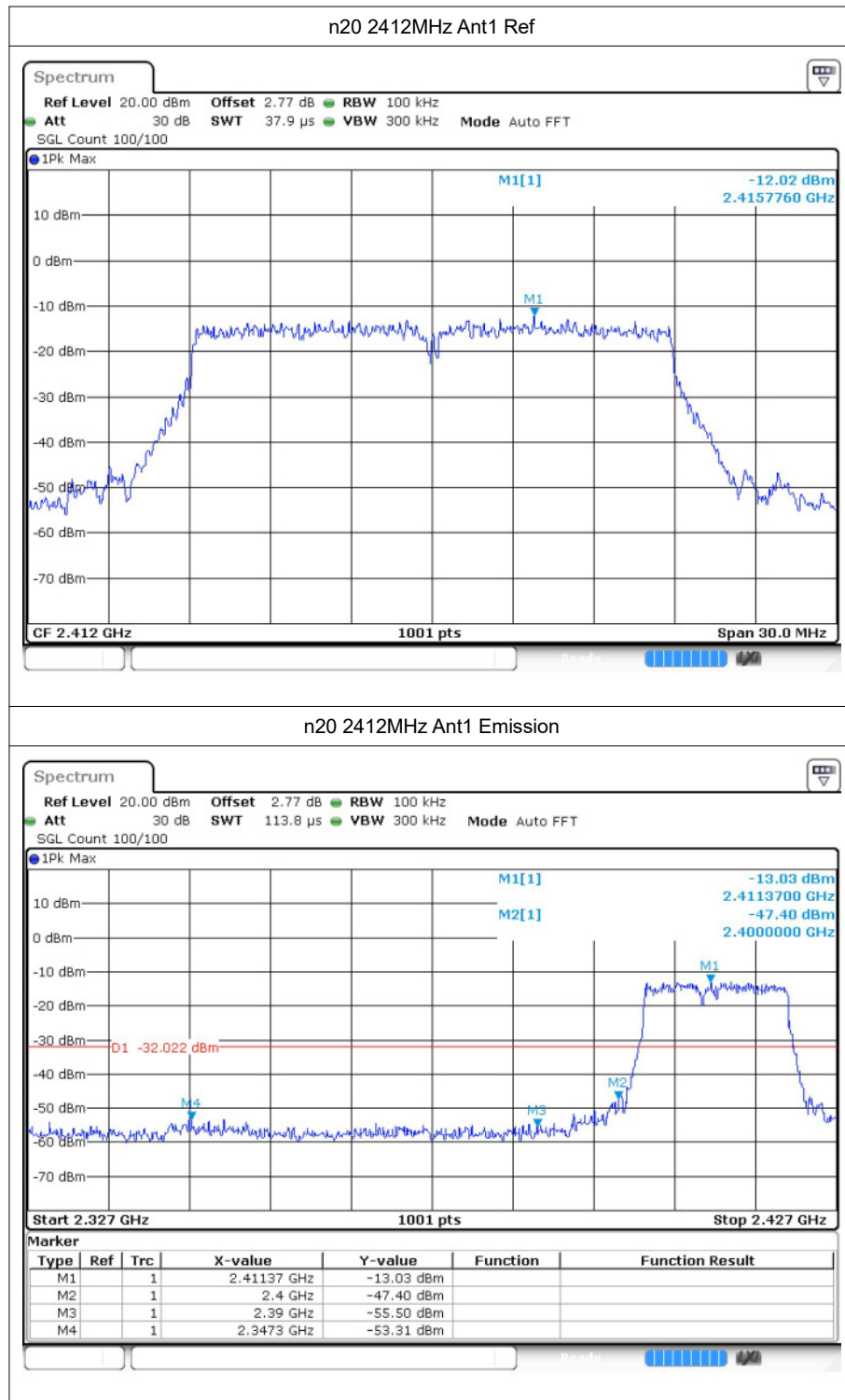
5.2 Test Graphs

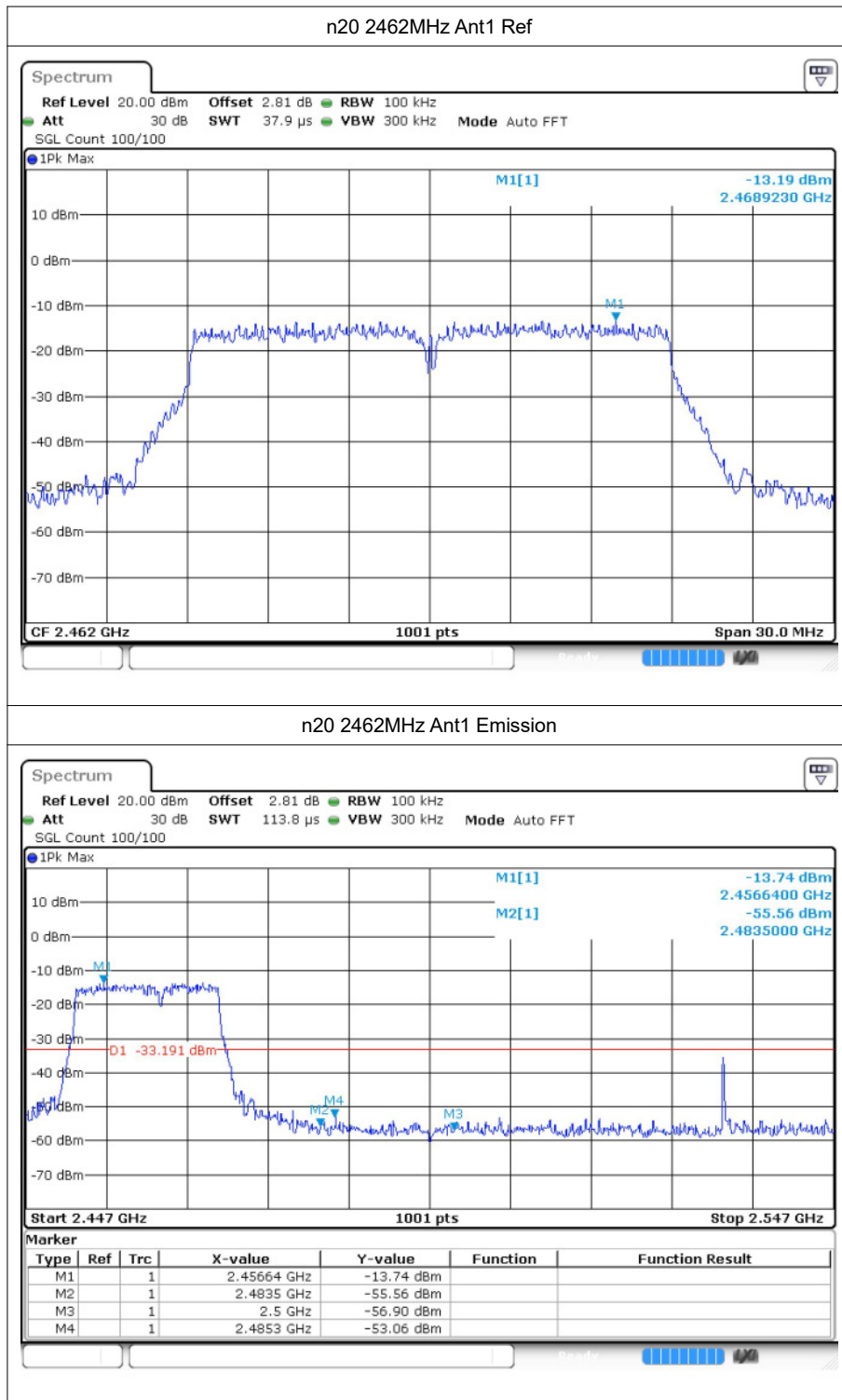














6 Conducted RF Spurious Emission

6.1 Test Result

Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-35.04	-20	Pass
b	2437	Ant1	-34.58	-20	Pass
b	2462	Ant1	-35.64	-20	Pass
g	2412	Ant1	-31.4	-20	Pass
g	2437	Ant1	-30.8	-20	Pass
g	2462	Ant1	-29.01	-20	Pass
n20	2412	Ant1	-30.51	-20	Pass
n20	2437	Ant1	-28.01	-20	Pass
n20	2462	Ant1	-28.75	-20	Pass

6.2 Test Graphs

