



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: S13-WiFi Gun Safe

Trade Mark: N/A

Test Model: S13-FW

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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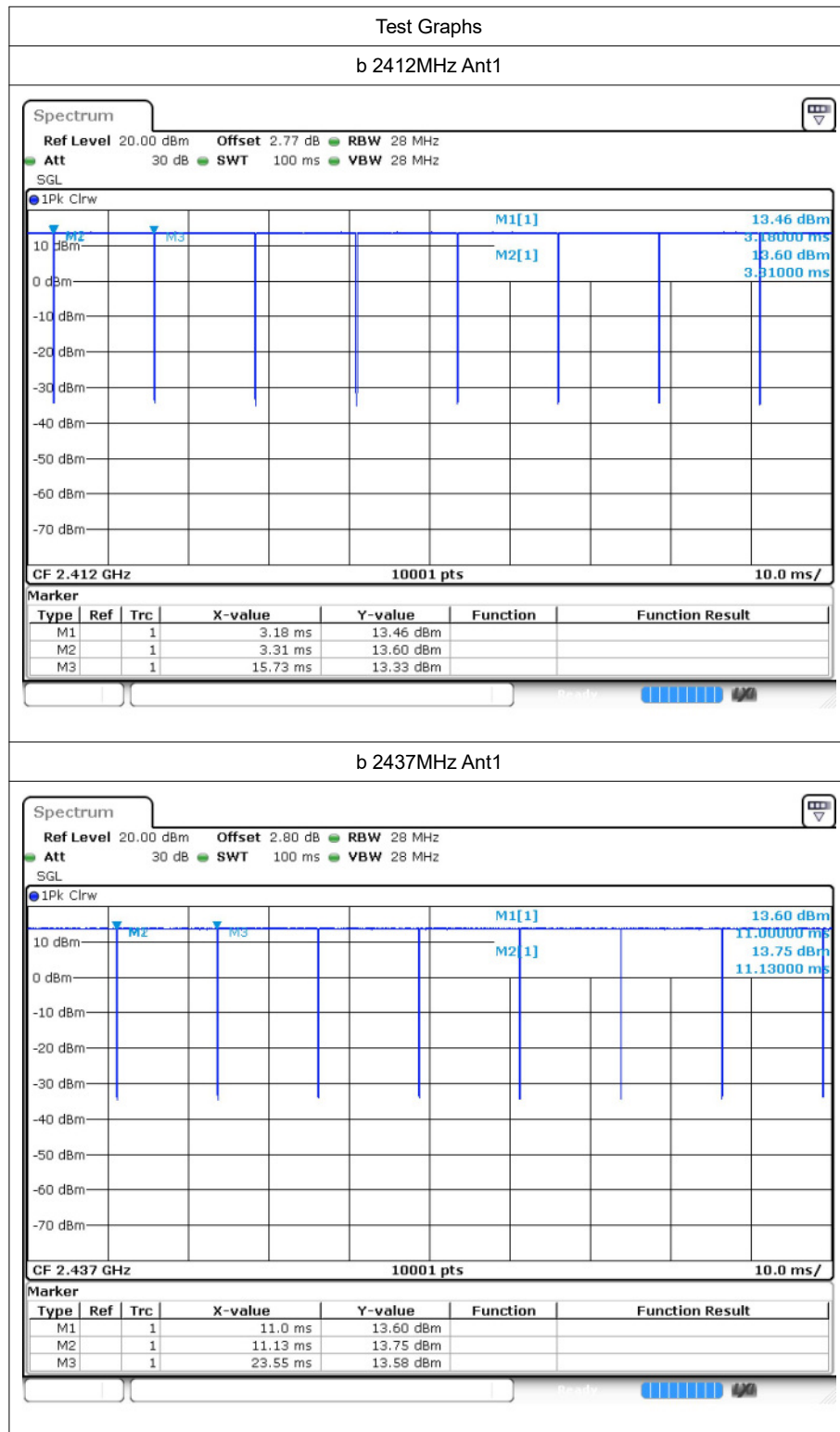


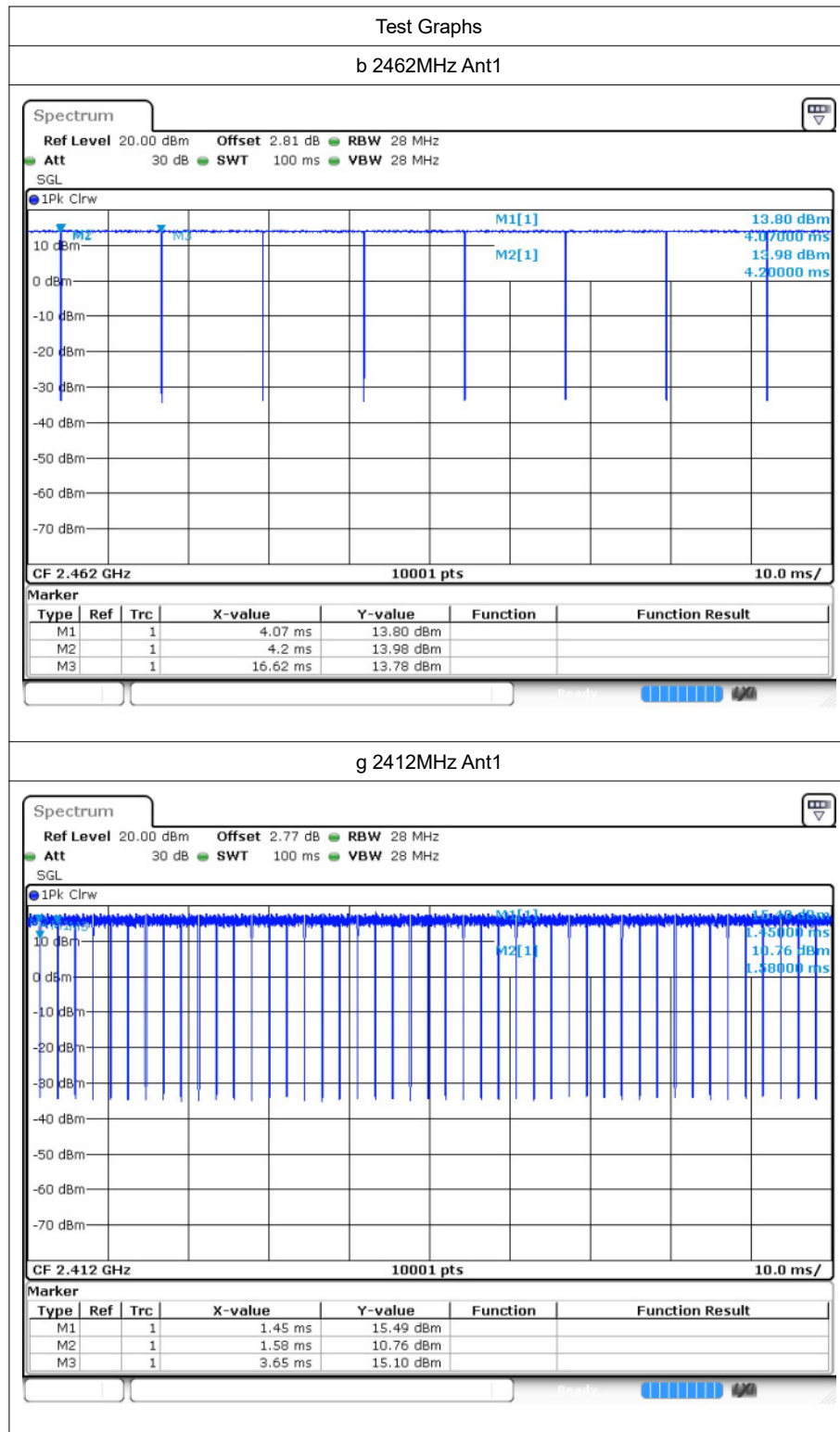
1 Duty Cycle

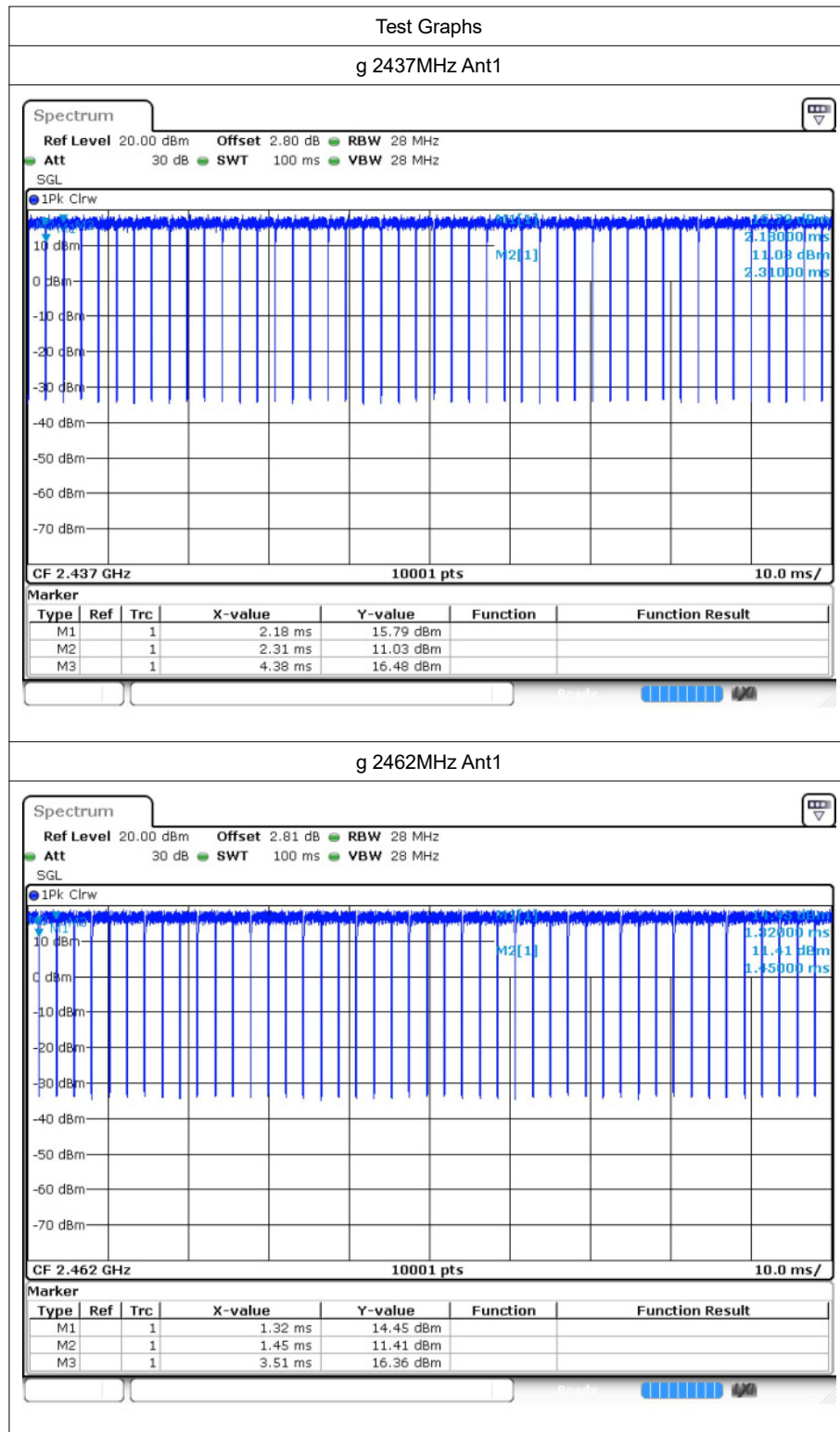
1.1 Test Result

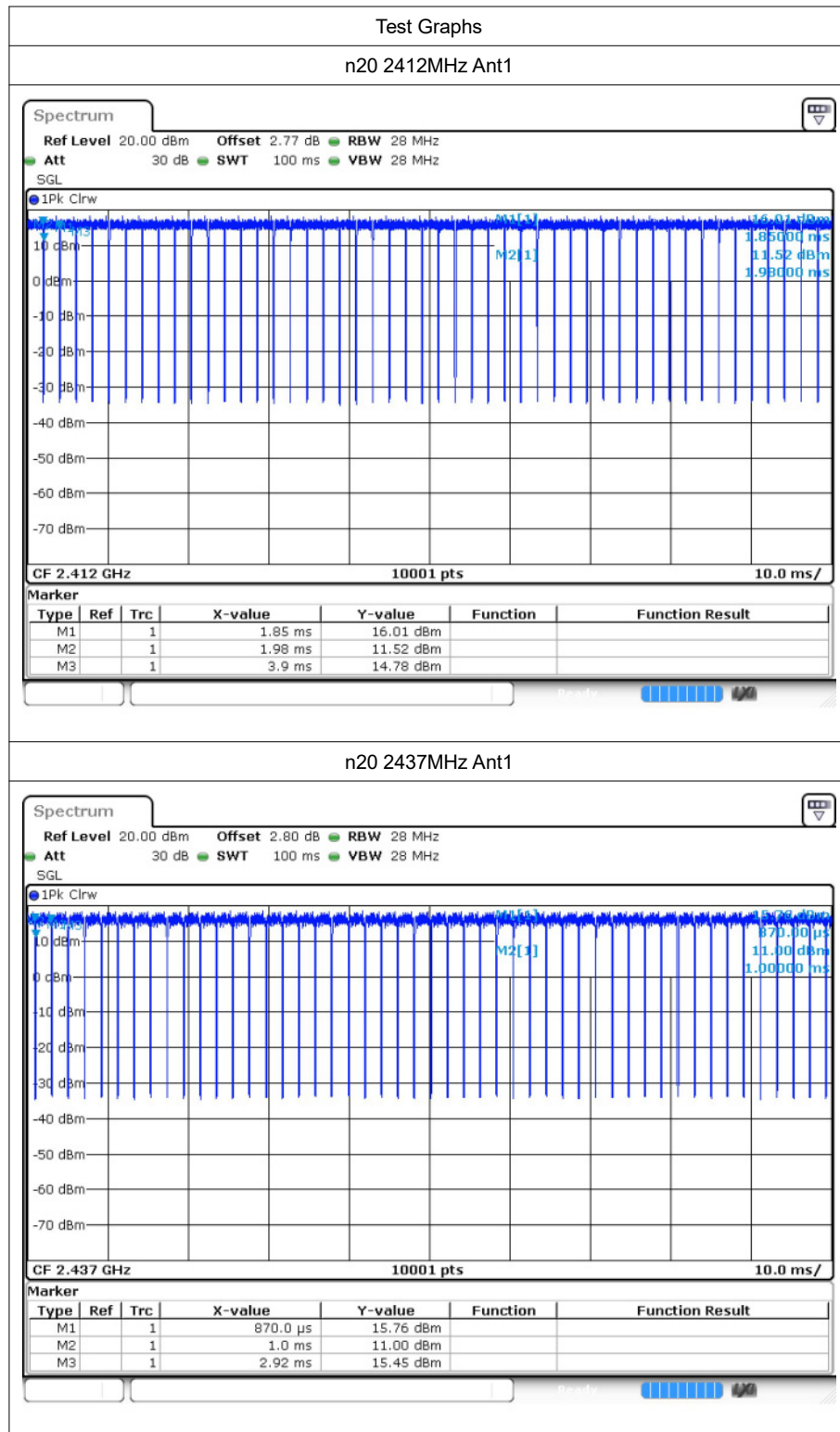
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor	1/T (kHz)
b	2412	Ant1	99.04	0.04	0.08
b	2437	Ant1	99.05	0.04	0.08
b	2462	Ant1	99.04	0.04	0.08
g	2412	Ant1	94.61	0.24	0.48
g	2437	Ant1	94.49	0.25	0.48
g	2462	Ant1	94.61	0.24	0.49
n20	2412	Ant1	94.31	0.25	0.52
n20	2437	Ant1	94.12	0.26	0.52
n20	2462	Ant1	94.24	0.26	0.52

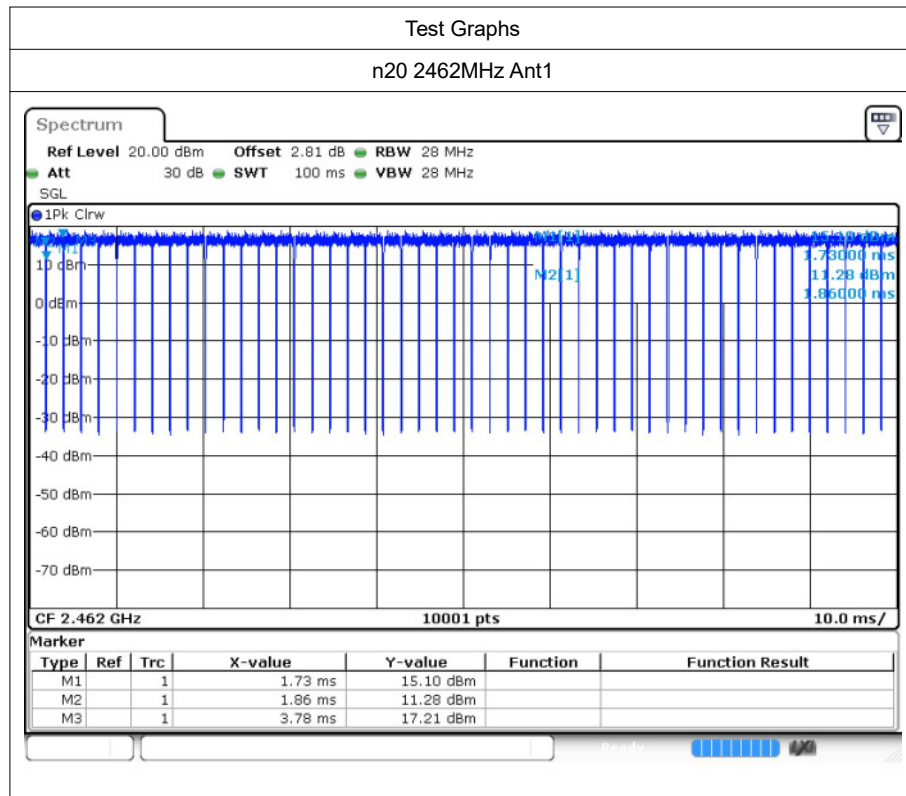
1.2 Test Graphs













2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant1	14.99	30	Pass
b	2437	Ant1	15.14	30	Pass
b	2462	Ant1	15.38	30	Pass
g	2412	Ant1	14.8	30	Pass
g	2437	Ant1	14.9	30	Pass
g	2462	Ant1	15.16	30	Pass
n20	2412	Ant1	14.72	30	Pass
n20	2437	Ant1	14.78	30	Pass
n20	2462	Ant1	15.09	30	Pass

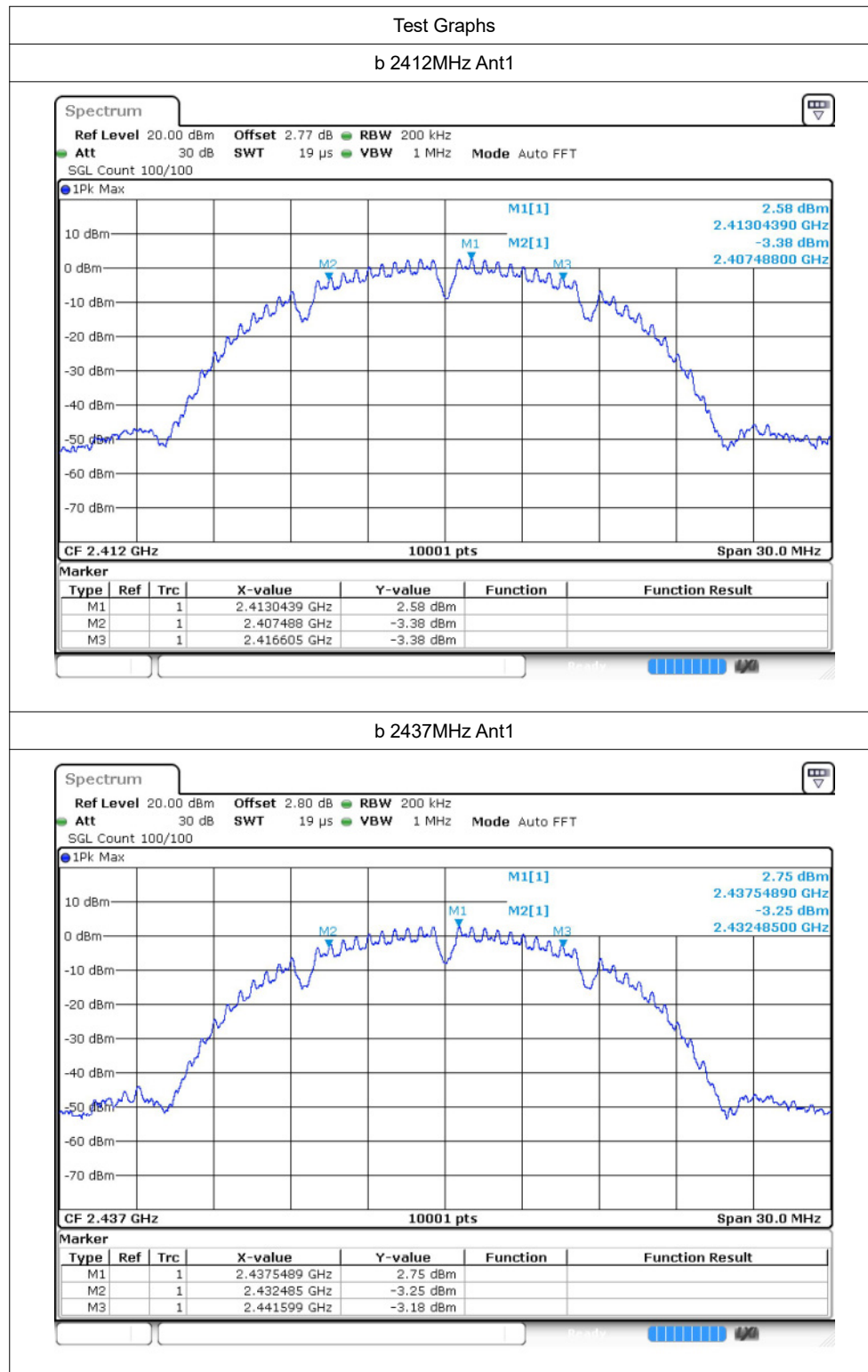


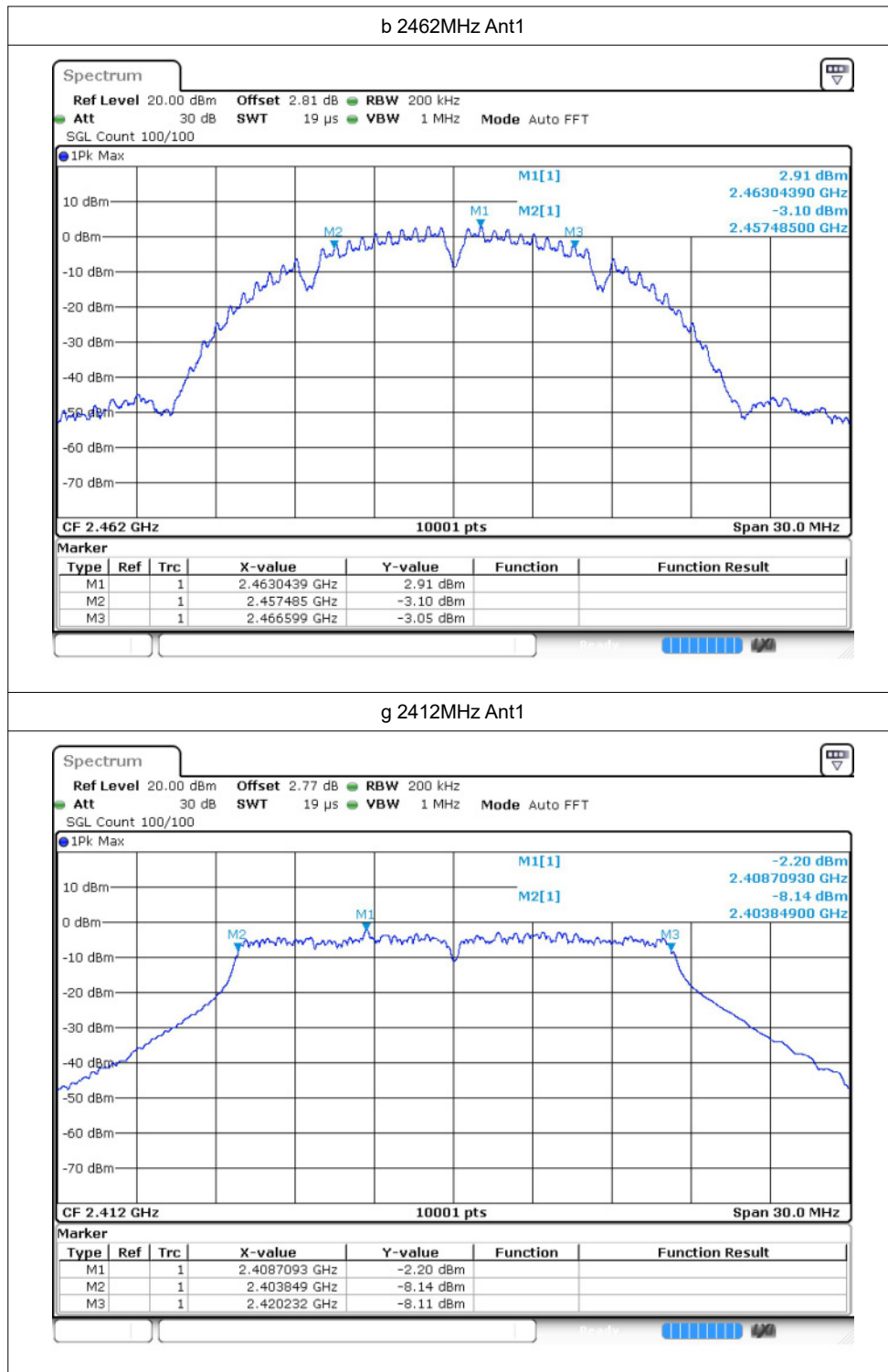
3 -6dB Bandwidth

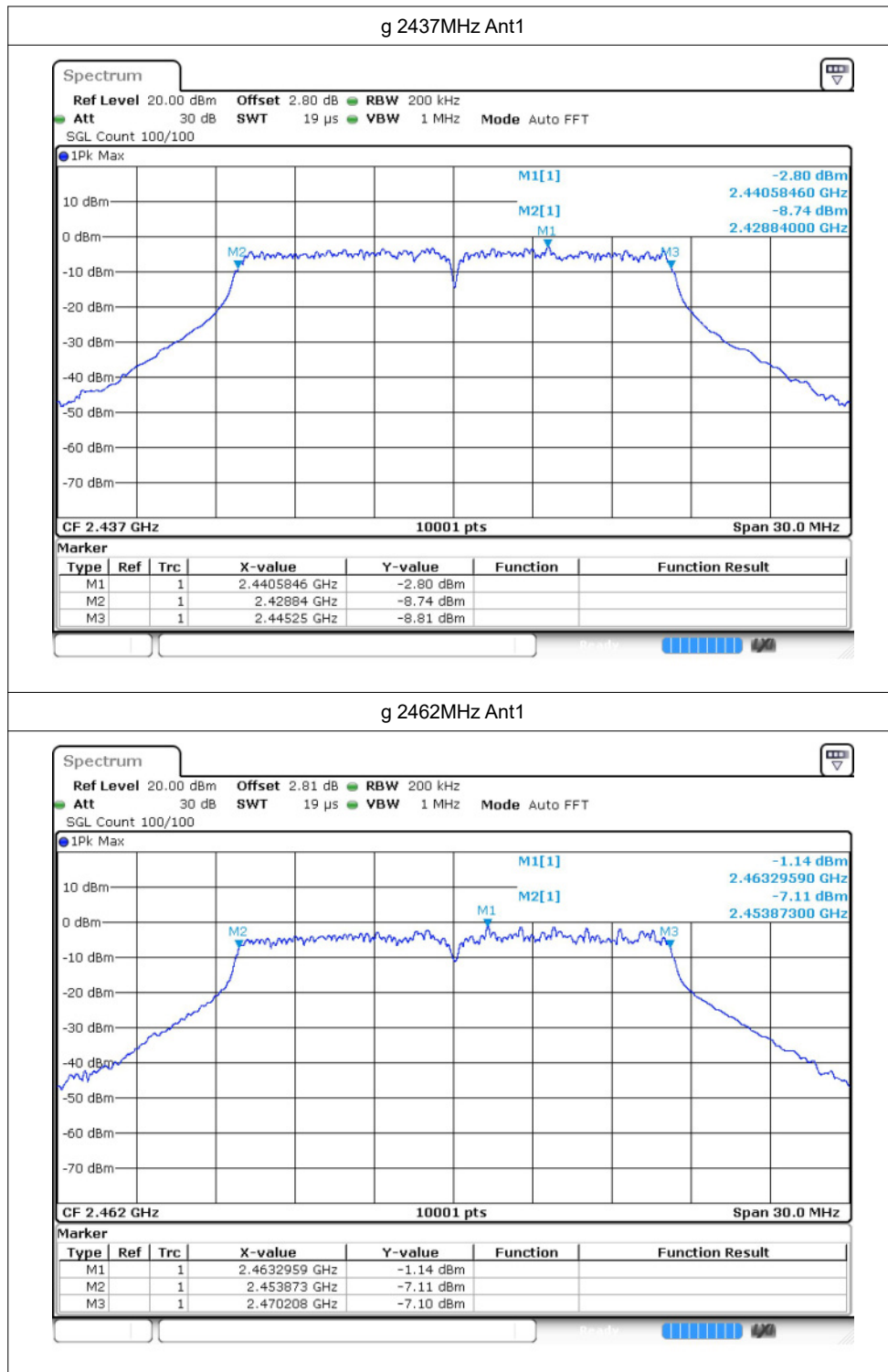
3.1 Test Result

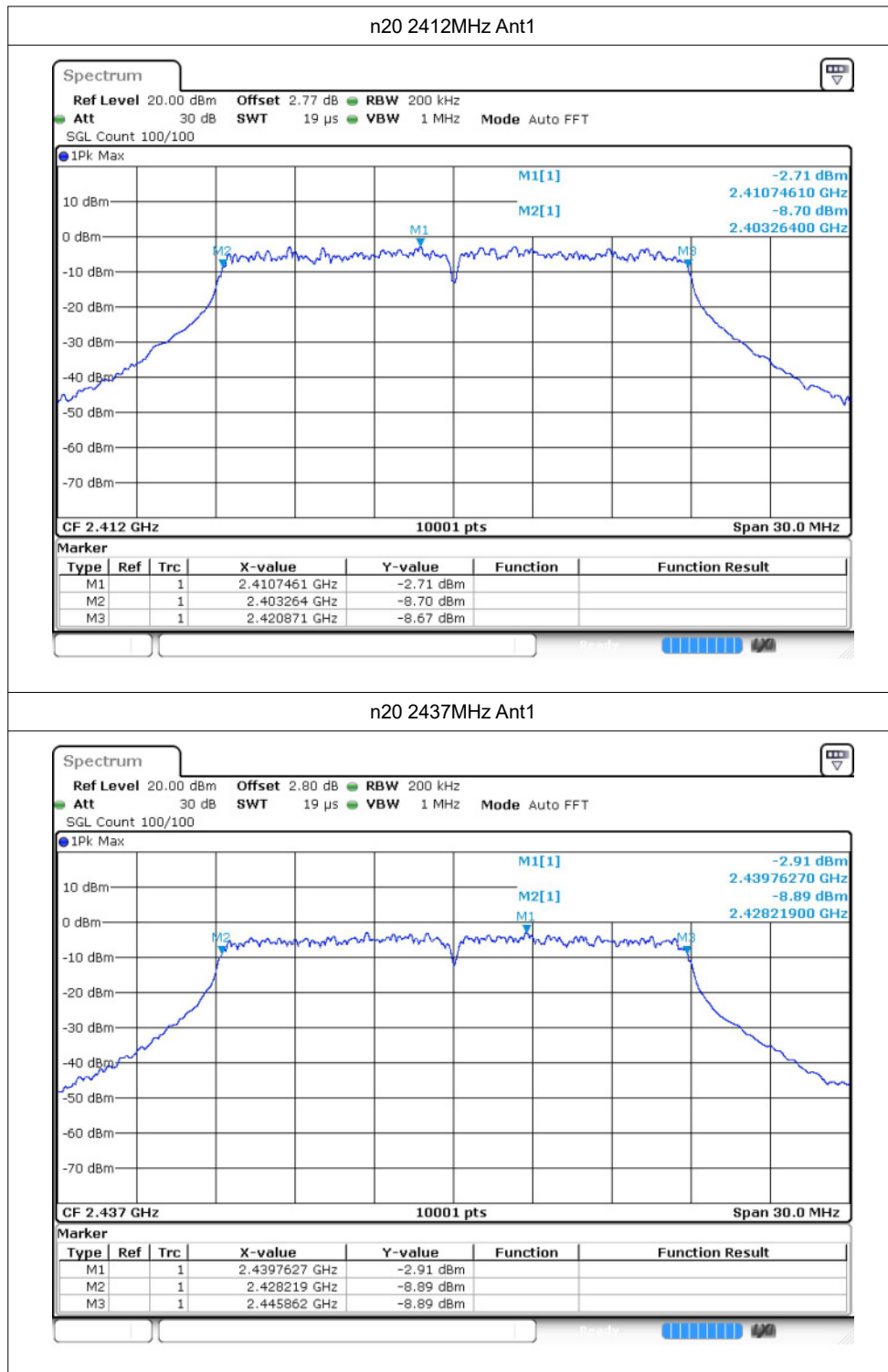
Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	9.117	0.5	Pass
b	2437	Ant1	9.114	0.5	Pass
b	2462	Ant1	9.114	0.5	Pass
g	2412	Ant1	16.383	0.5	Pass
g	2437	Ant1	16.41	0.5	Pass
g	2462	Ant1	16.335	0.5	Pass
n20	2412	Ant1	17.607	0.5	Pass
n20	2437	Ant1	17.643	0.5	Pass
n20	2462	Ant1	17.508	0.5	Pass

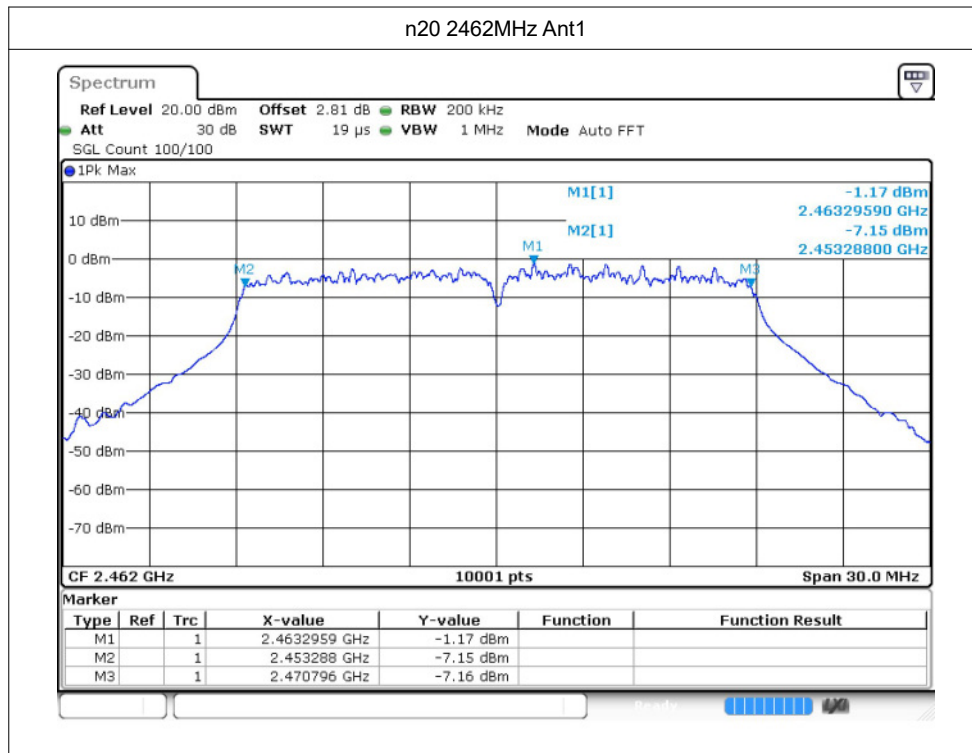
3.2 Test Graphs









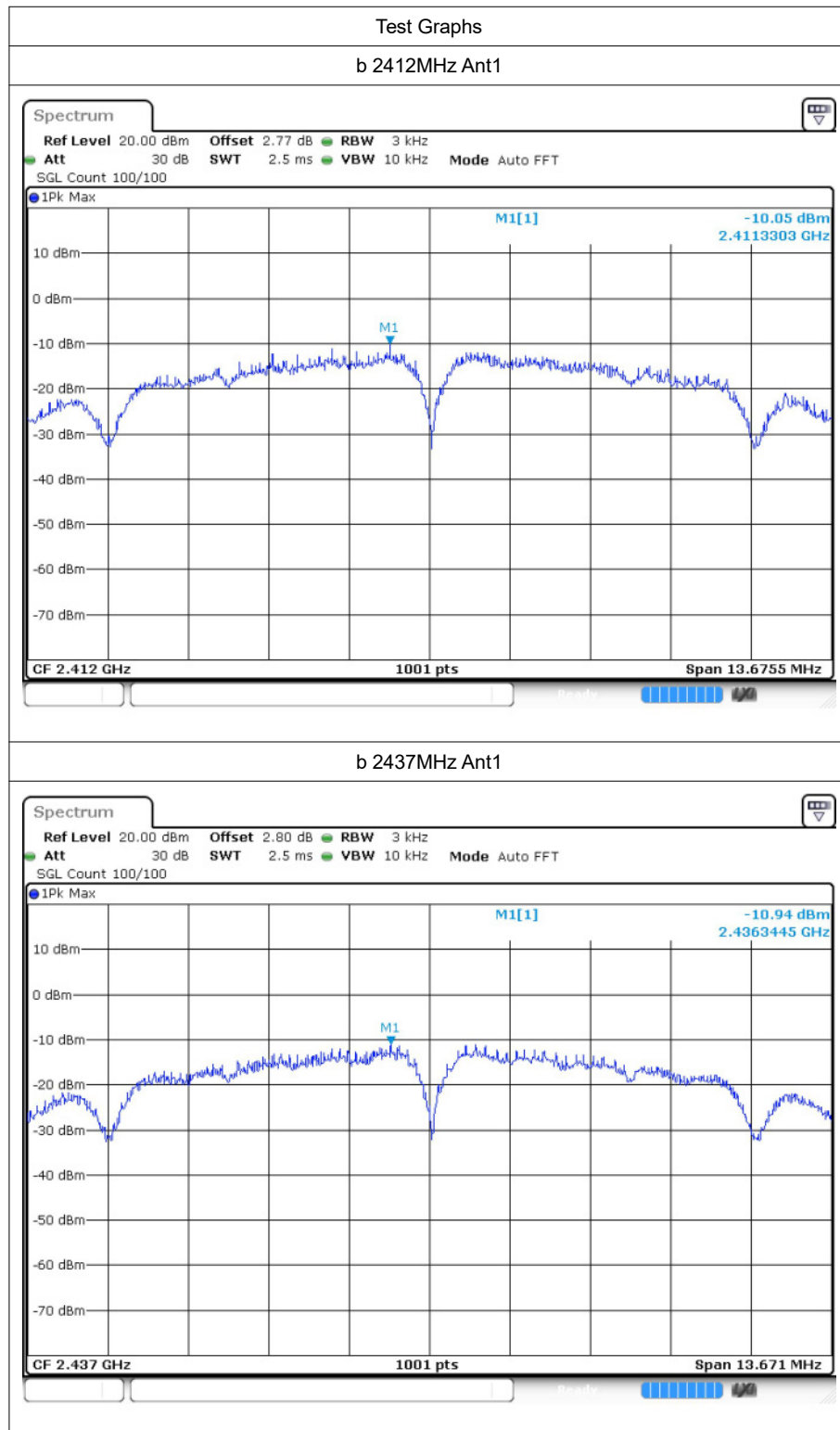


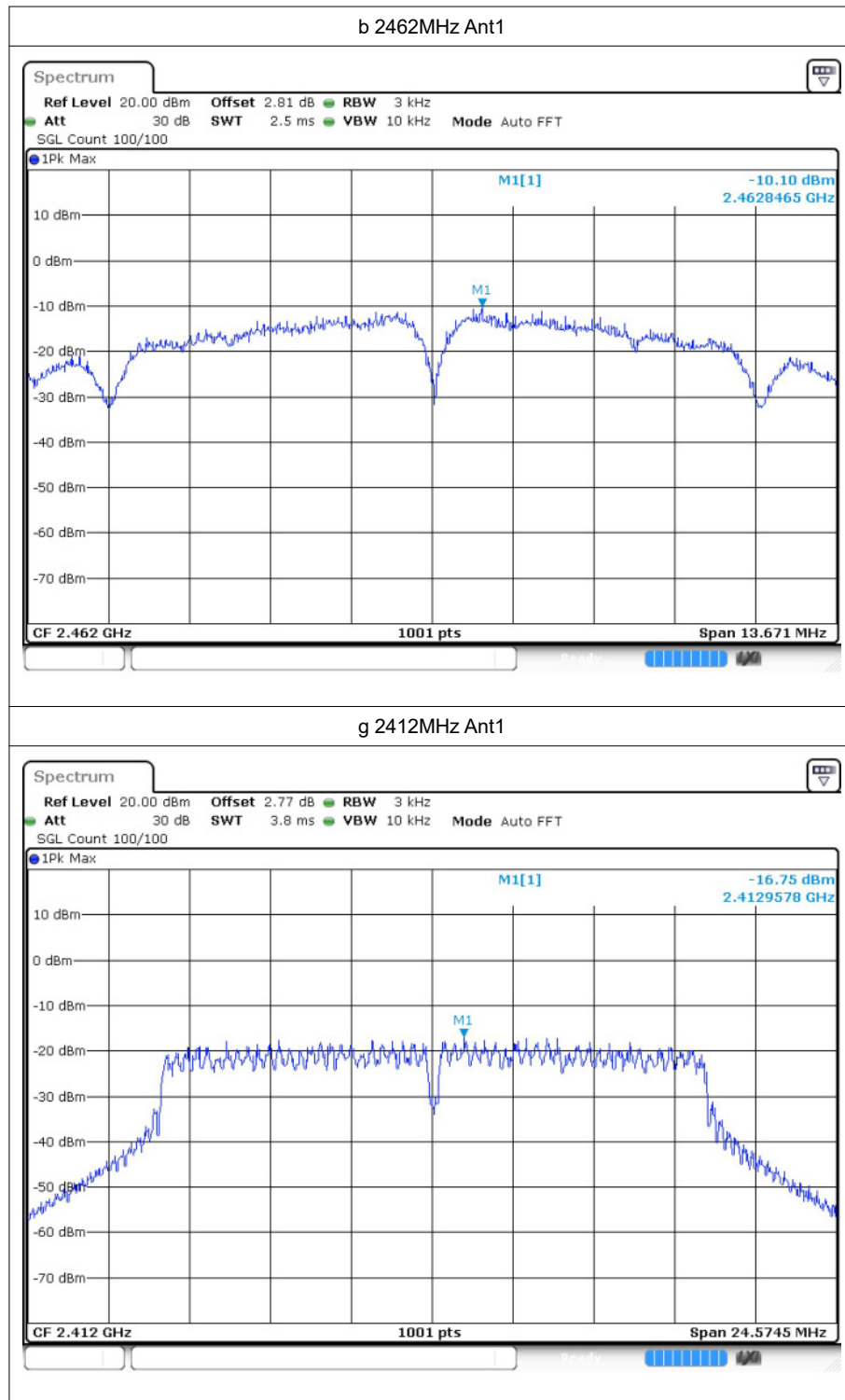
4 Maximum Power Spectral Density Level

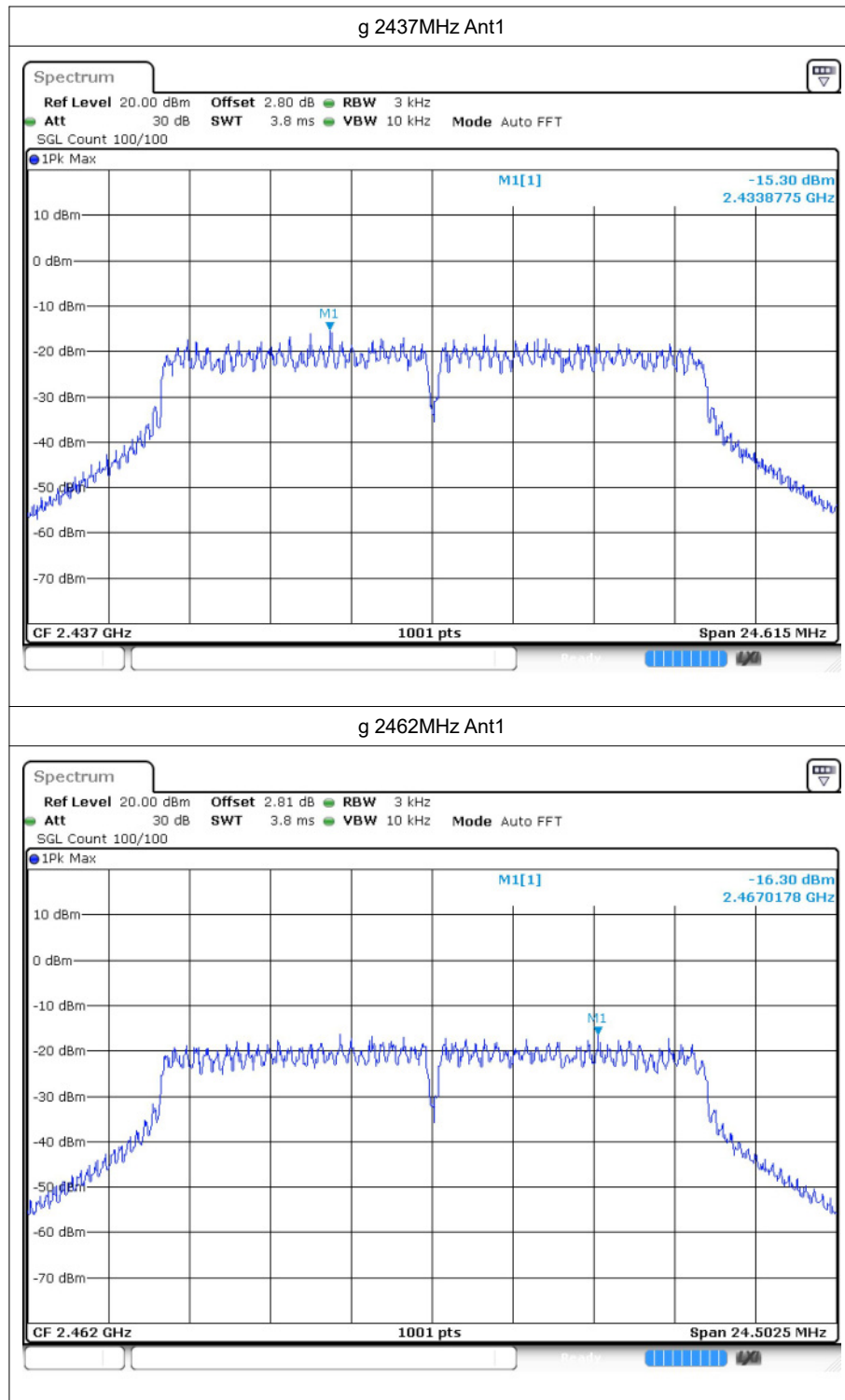
4.1 Test Result

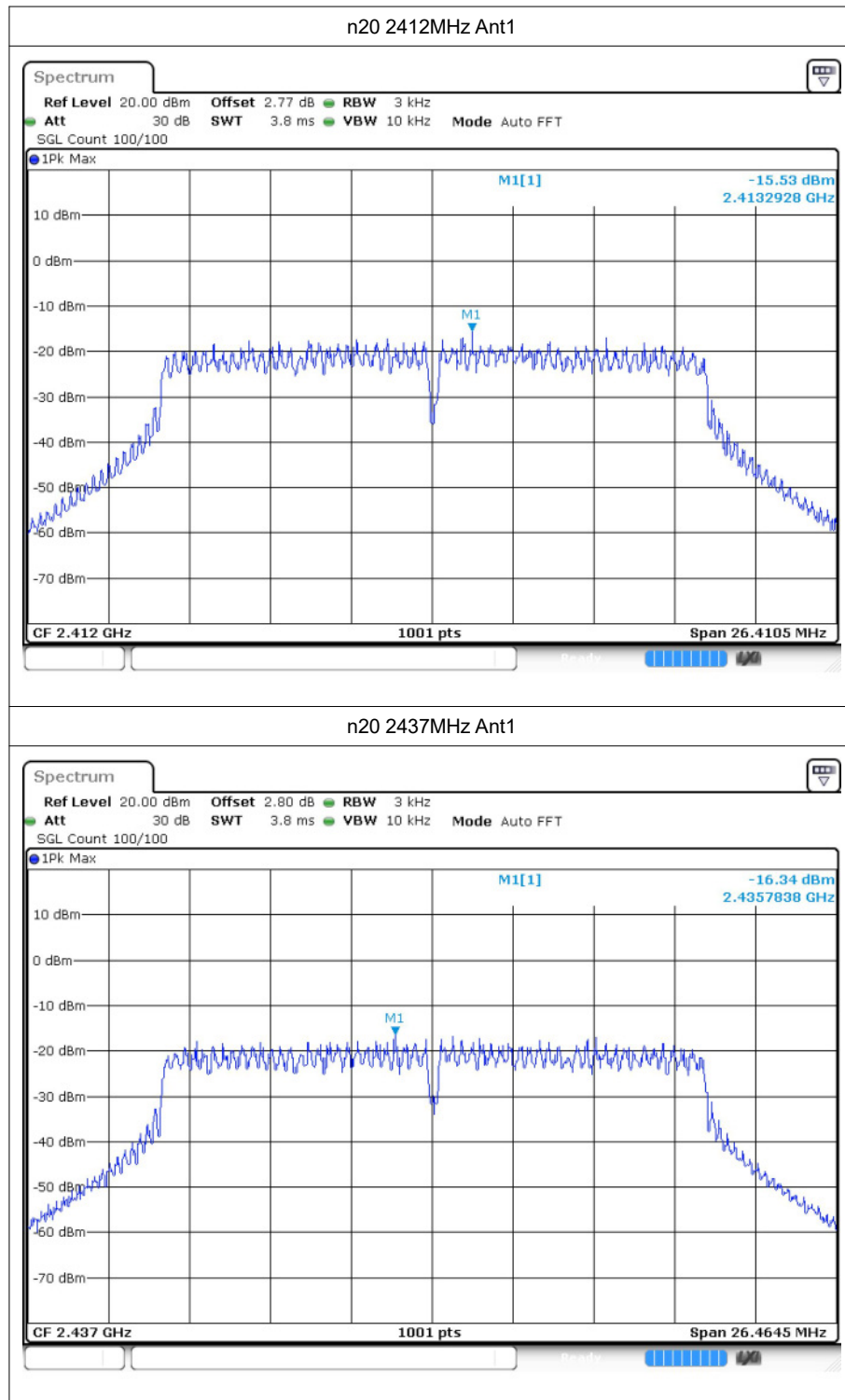
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
b	2412	Ant1	-10.05	≤8	Pass
b	2437	Ant1	-10.94	≤8	Pass
b	2462	Ant1	-10.1	≤8	Pass
g	2412	Ant1	-16.75	≤8	Pass
g	2437	Ant1	-15.3	≤8	Pass
g	2462	Ant1	-16.3	≤8	Pass
n20	2412	Ant1	-15.53	≤8	Pass
n20	2437	Ant1	-16.34	≤8	Pass
n20	2462	Ant1	-16.73	≤8	Pass

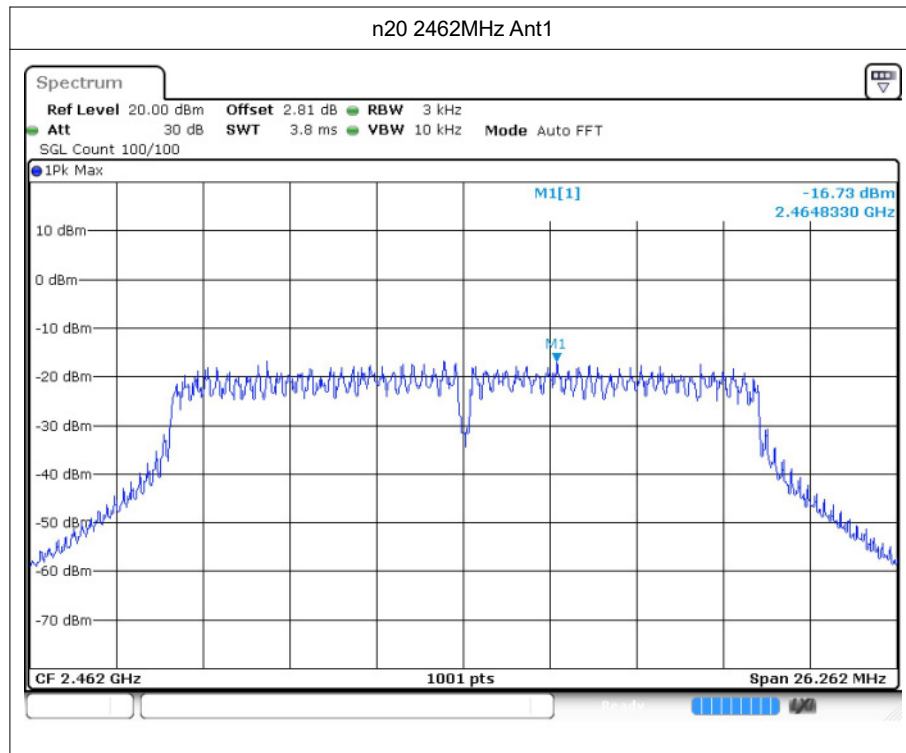
4.2 Test Graphs











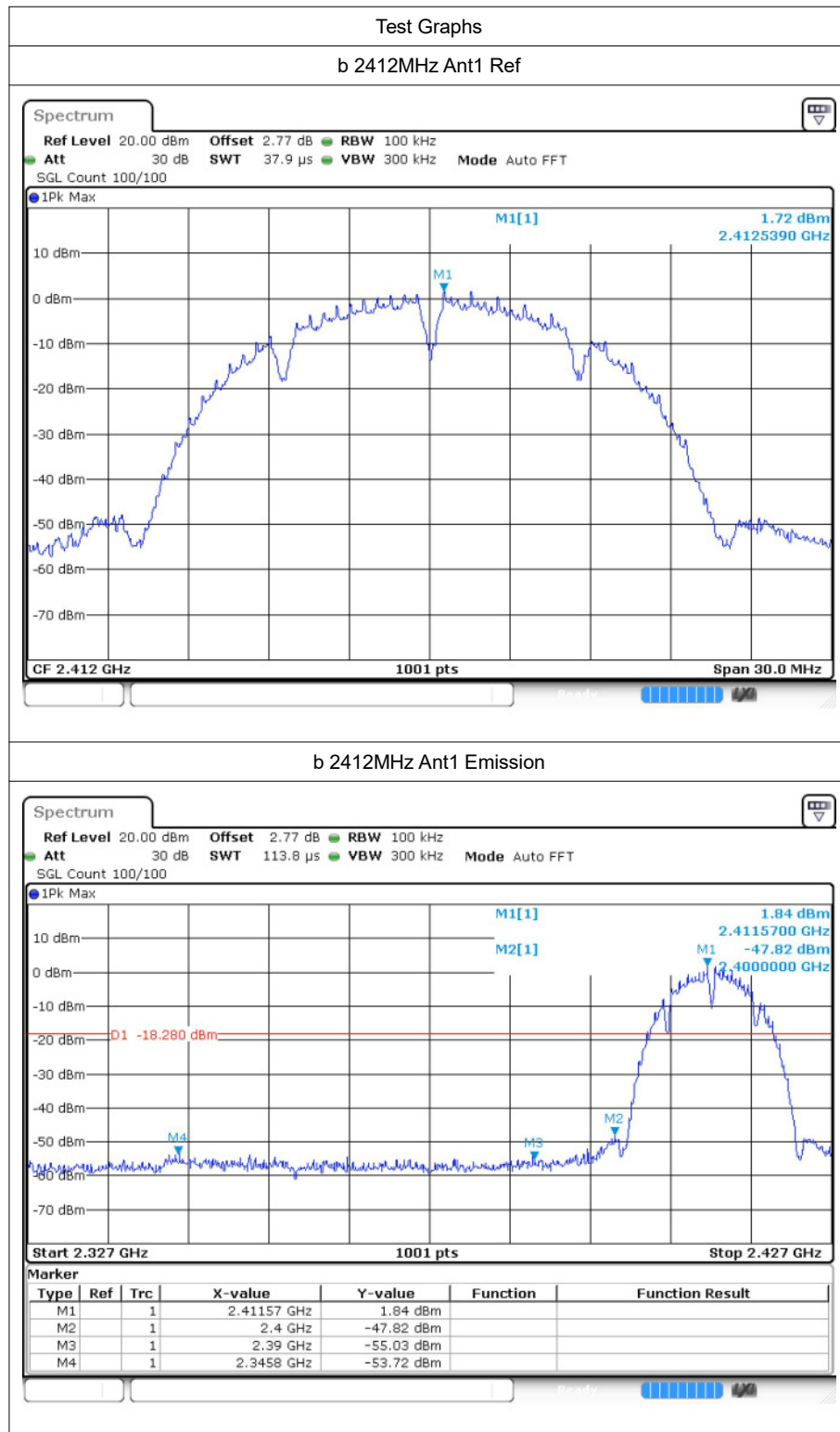


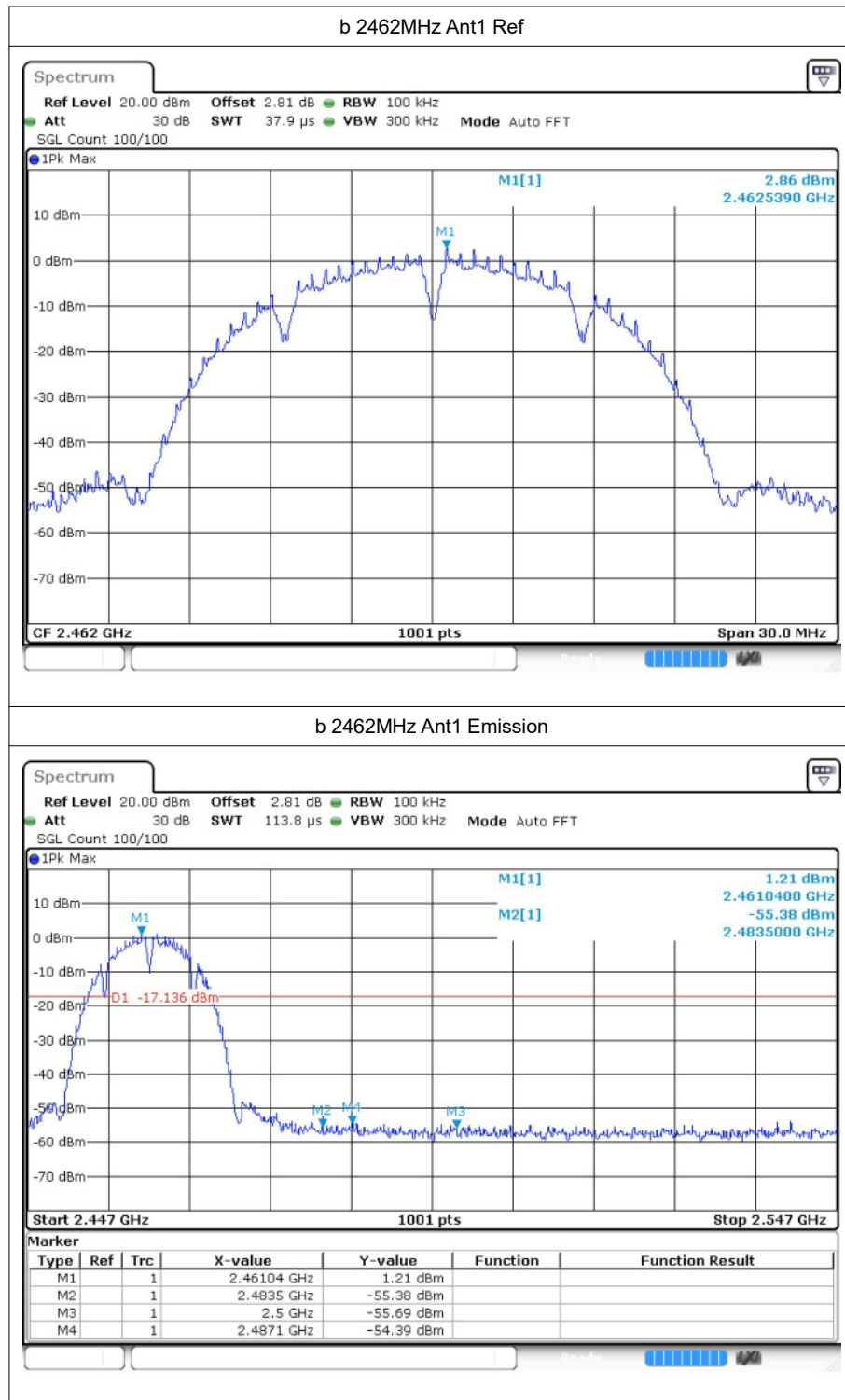
5 Band Edge

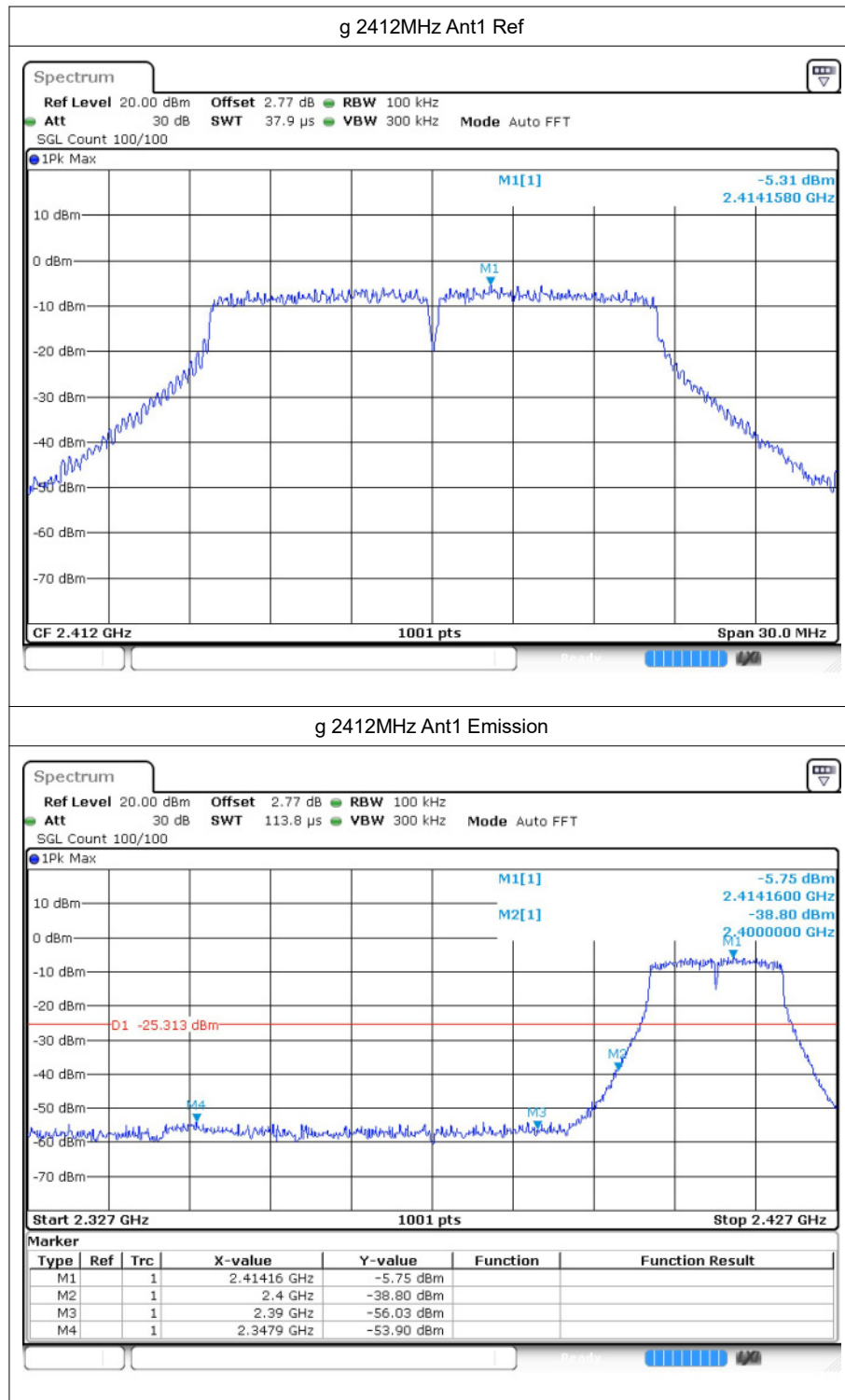
5.1 Test Result

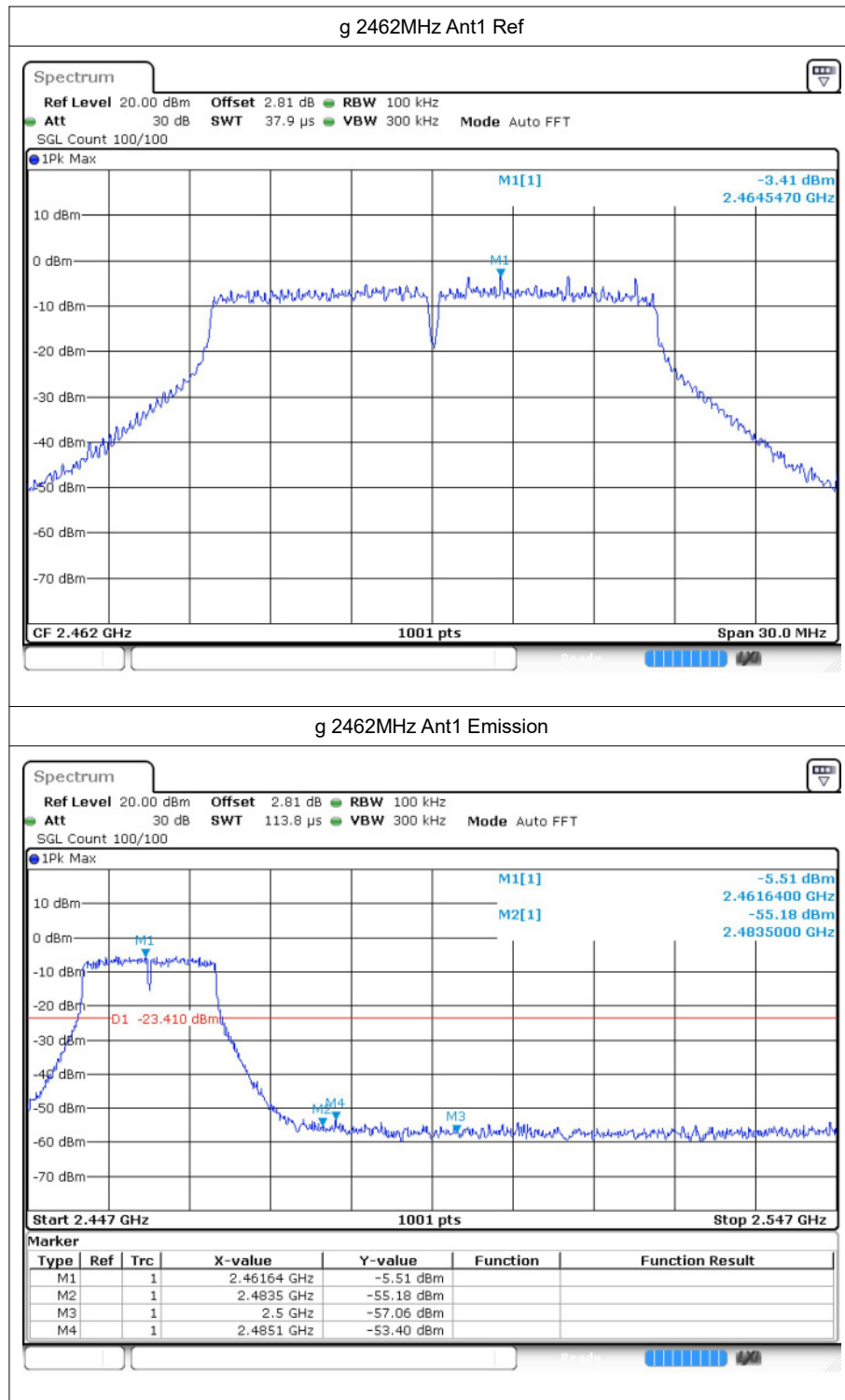
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-55.43	-20	Pass
b	2462	Ant1	-57.24	-20	Pass
g	2412	Ant1	-48.58	-20	Pass
g	2462	Ant1	-49.98	-20	Pass
n20	2412	Ant1	-50.43	-20	Pass
n20	2462	Ant1	-50.41	-20	Pass

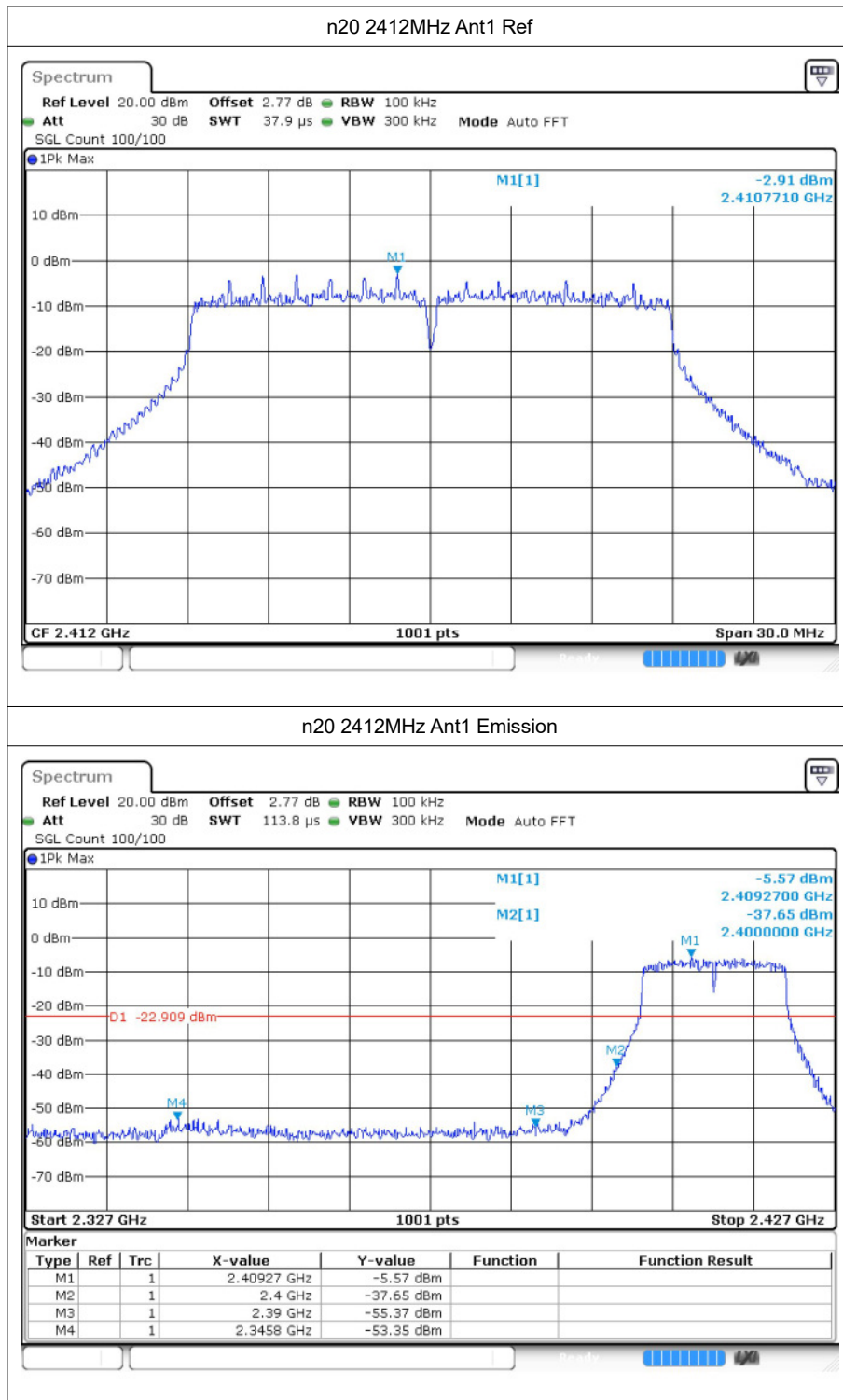
5.2 Test Graphs

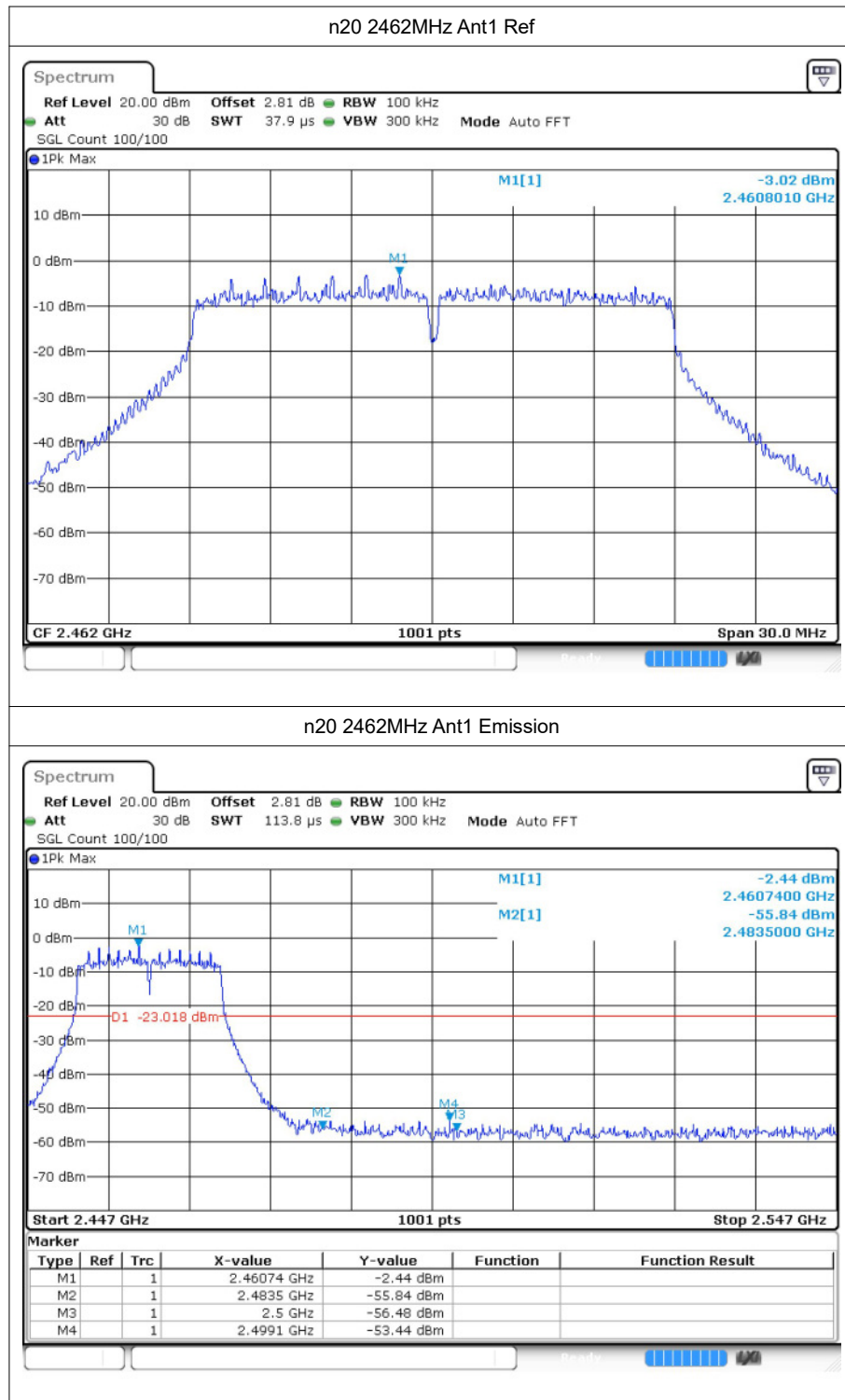












6 Conducted RF Spurious Emission

6.1 Test Result

Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-42.86	-20	Pass
b	2437	Ant1	-43.19	-20	Pass
b	2462	Ant1	-43.24	-20	Pass
g	2412	Ant1	-35.82	-20	Pass
g	2437	Ant1	-35.84	-20	Pass
g	2462	Ant1	-37.72	-20	Pass
n20	2412	Ant1	-39.07	-20	Pass
n20	2437	Ant1	-36.06	-20	Pass
n20	2462	Ant1	-38.57	-20	Pass

6.2 Test Graphs

