



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Wifi smart clock

Trade Mark: onlywell

Test Model: 1206

Environmental Conditions

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



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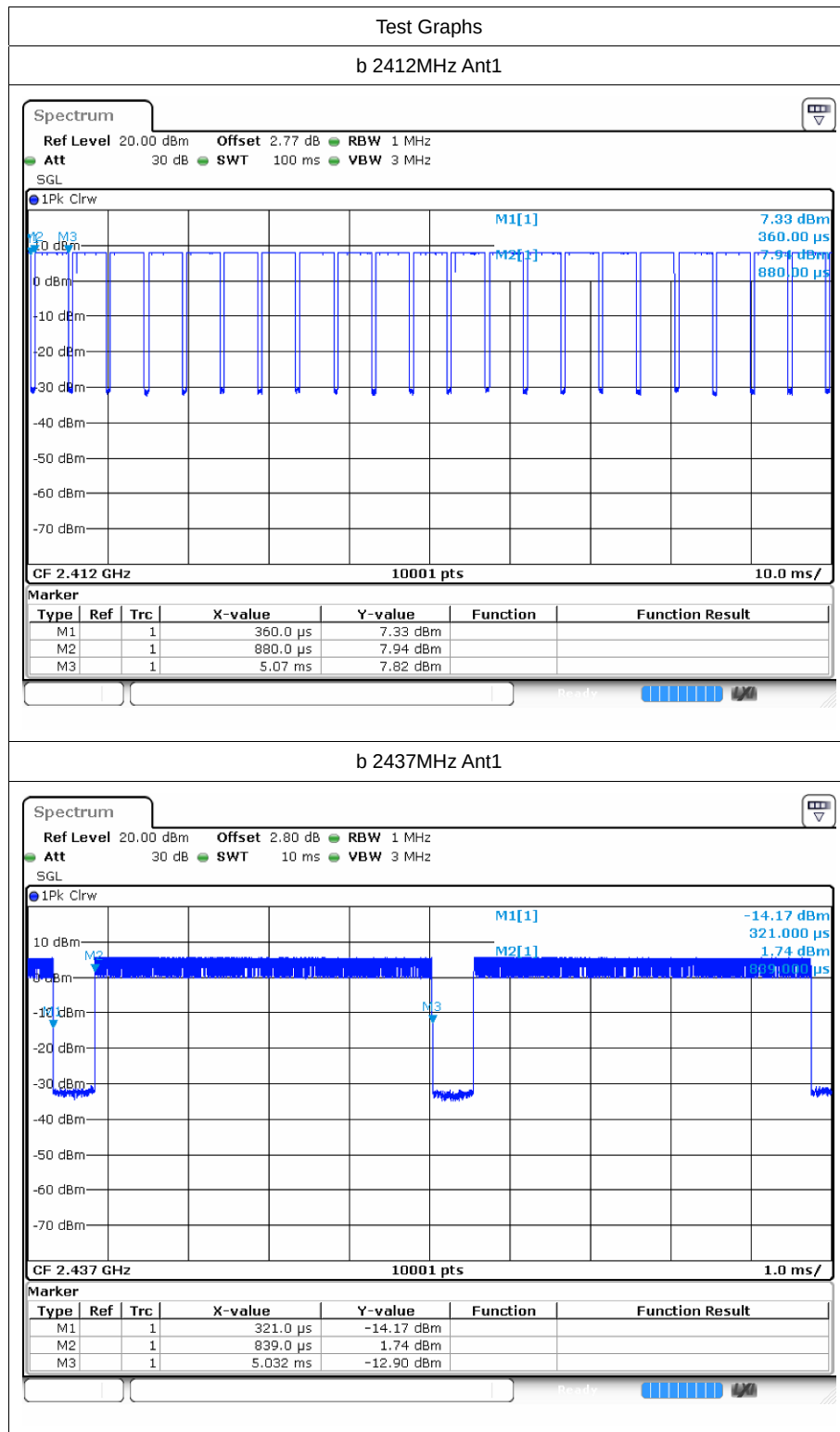


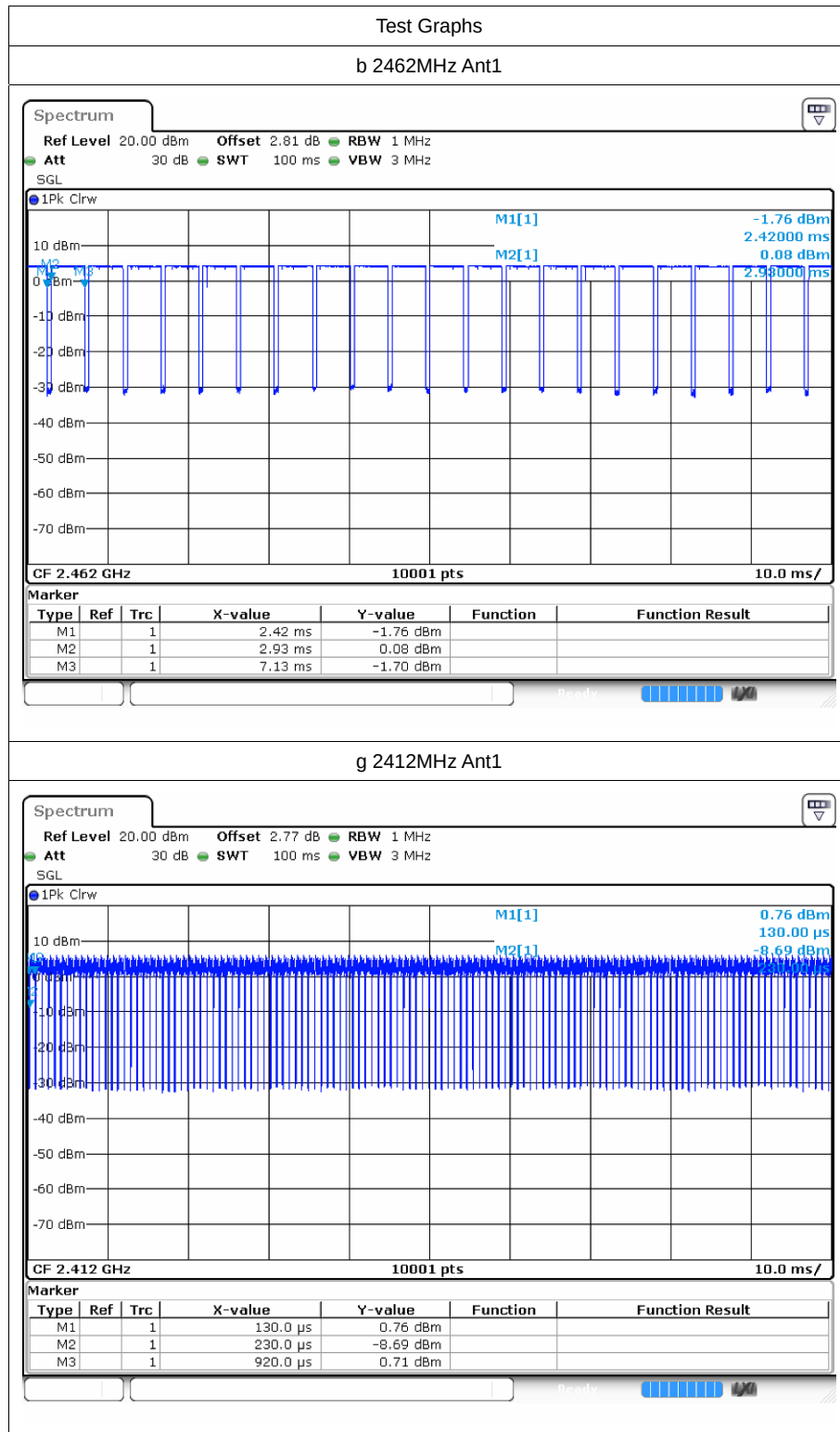
1 Duty Cycle

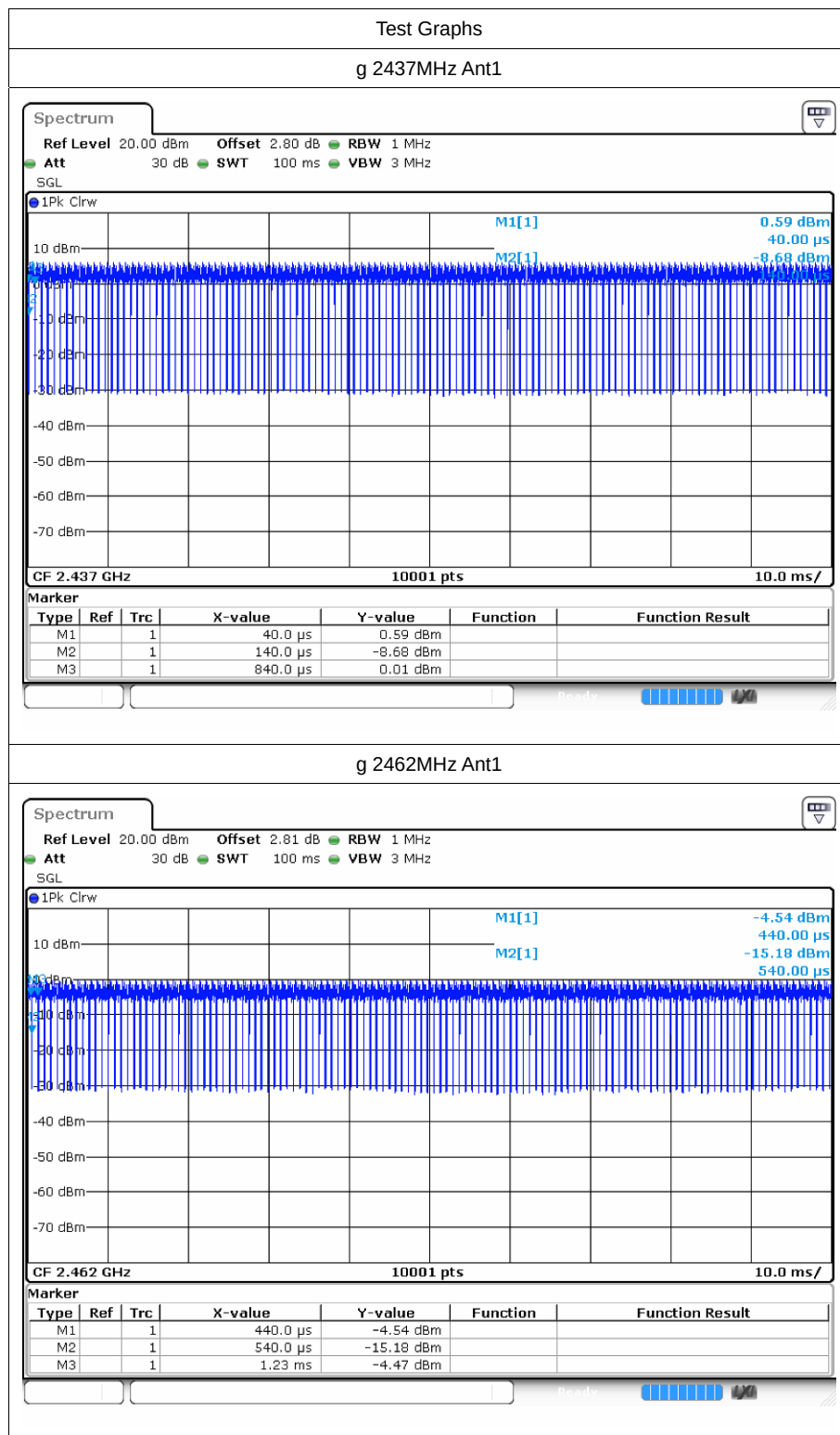
1.1 Test Result

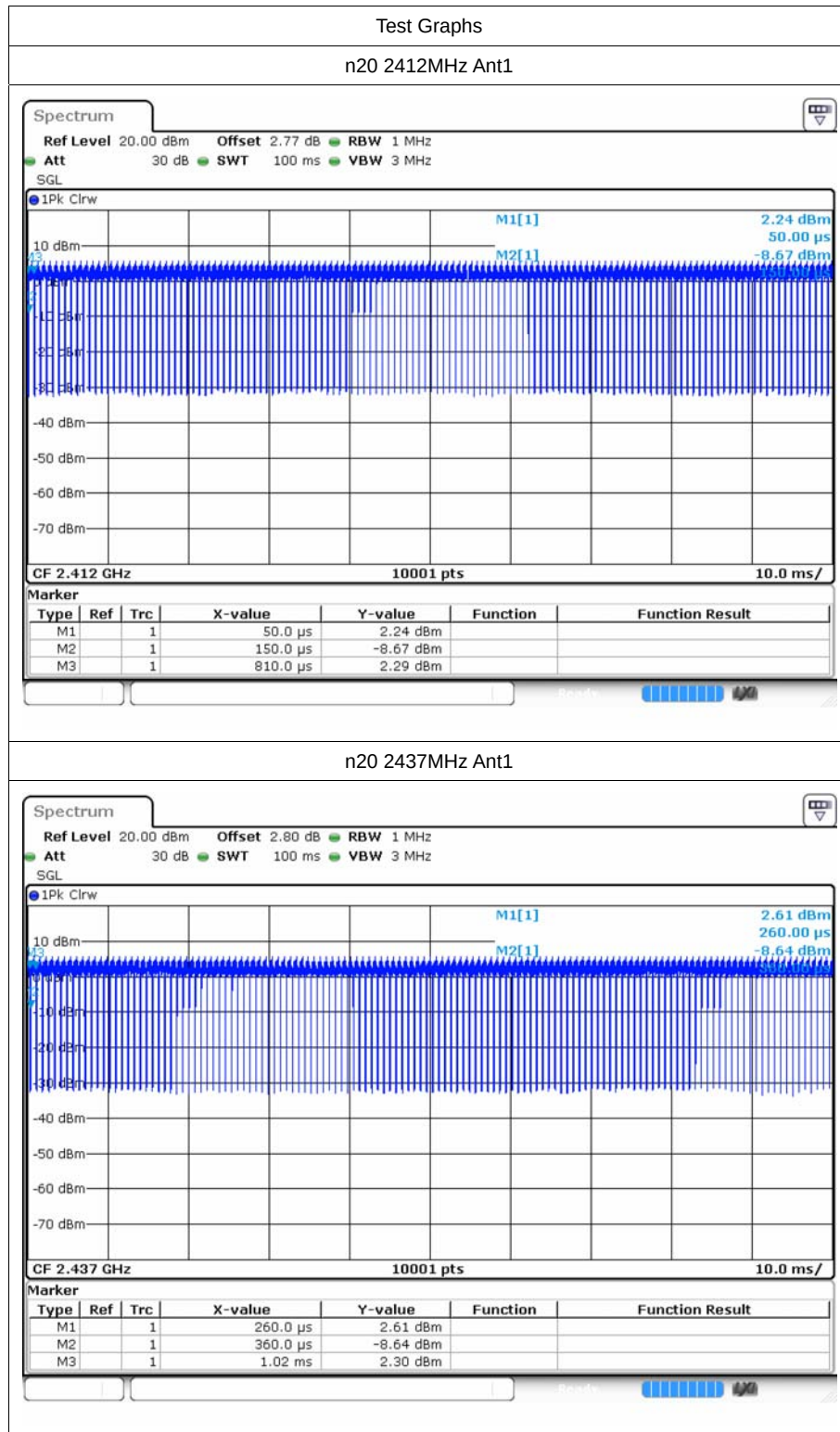
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	1/T (kHz)
b	2412	Ant1	88.83	0.24
b	2437	Ant1	87.09	0.24
b	2462	Ant1	89.35	0.24
g	2412	Ant1	88.99	1.45
g	2437	Ant1	88.64	1.43
g	2462	Ant1	88.41	1.45
n20	2412	Ant1	88.09	1.52
n20	2437	Ant1	88.03	1.52
n20	2462	Ant1	87.86	1.52

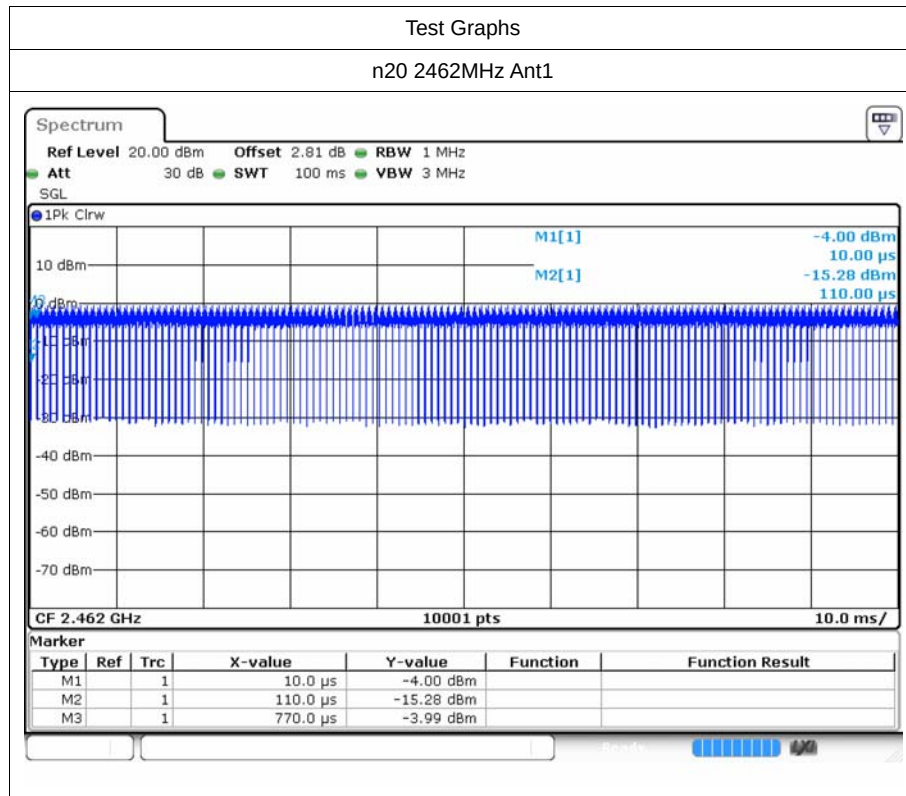
1.2 Test Graphs













2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant1	15.84	30	Pass
b	2437	Ant1	14.35	30	Pass
b	2462	Ant1	13.41	30	Pass
g	2412	Ant1	14.62	30	Pass
g	2437	Ant1	14.54	30	Pass
g	2462	Ant1	12.69	30	Pass
n20	2412	Ant1	14.36	30	Pass
n20	2437	Ant1	14.21	30	Pass
n20	2462	Ant1	12.77	30	Pass

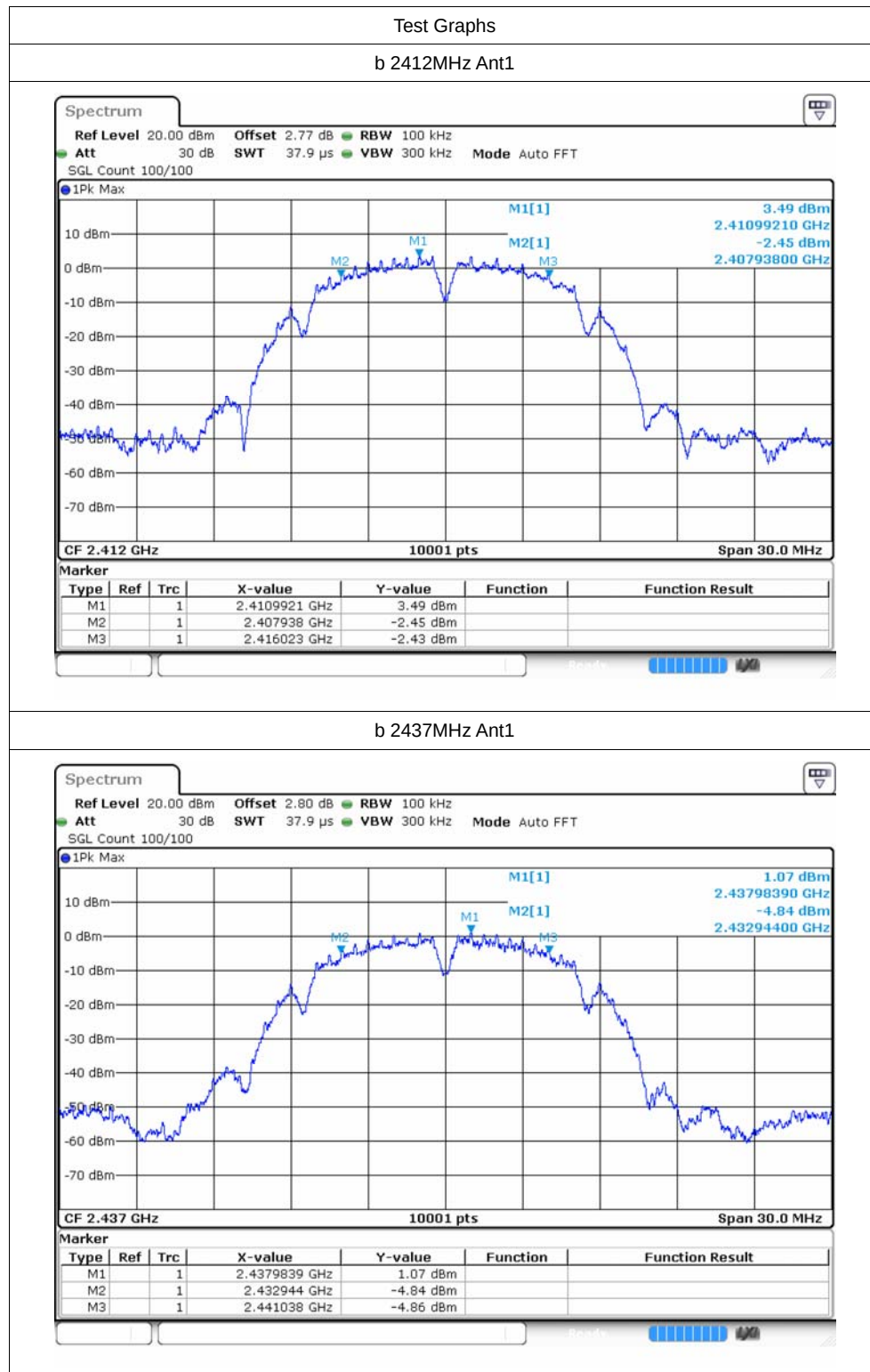


3 -6dB Bandwidth

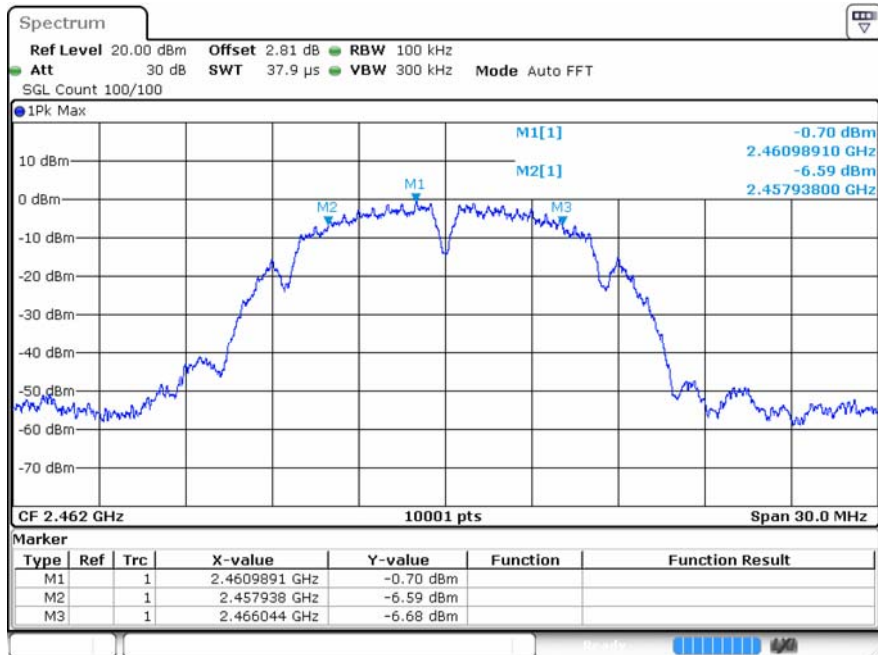
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	8.085	0.5	Pass
b	2437	Ant1	8.094	0.5	Pass
b	2462	Ant1	8.106	0.5	Pass
g	2412	Ant1	16.02	0.5	Pass
g	2437	Ant1	16.29	0.5	Pass
g	2462	Ant1	16.293	0.5	Pass
n20	2412	Ant1	15.465	0.5	Pass
n20	2437	Ant1	16.332	0.5	Pass
n20	2462	Ant1	16.299	0.5	Pass

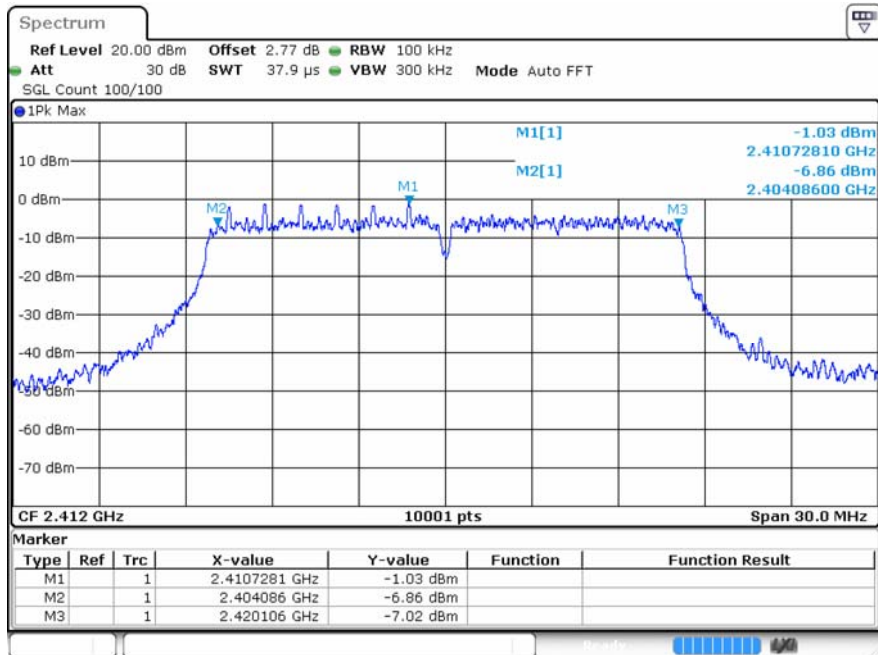
3.2 Test Graphs



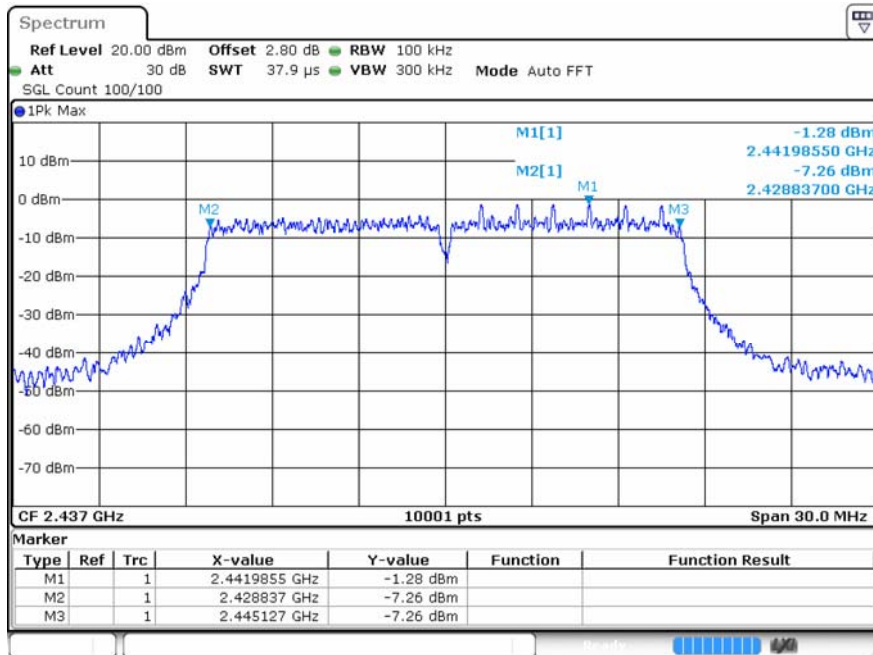
b 2462MHz Ant1



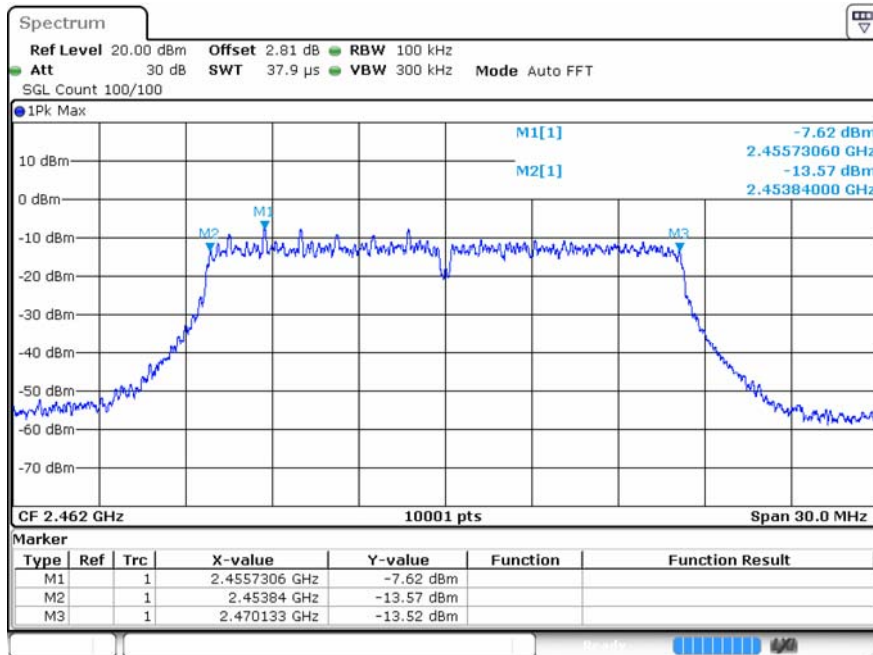
g 2412MHz Ant1

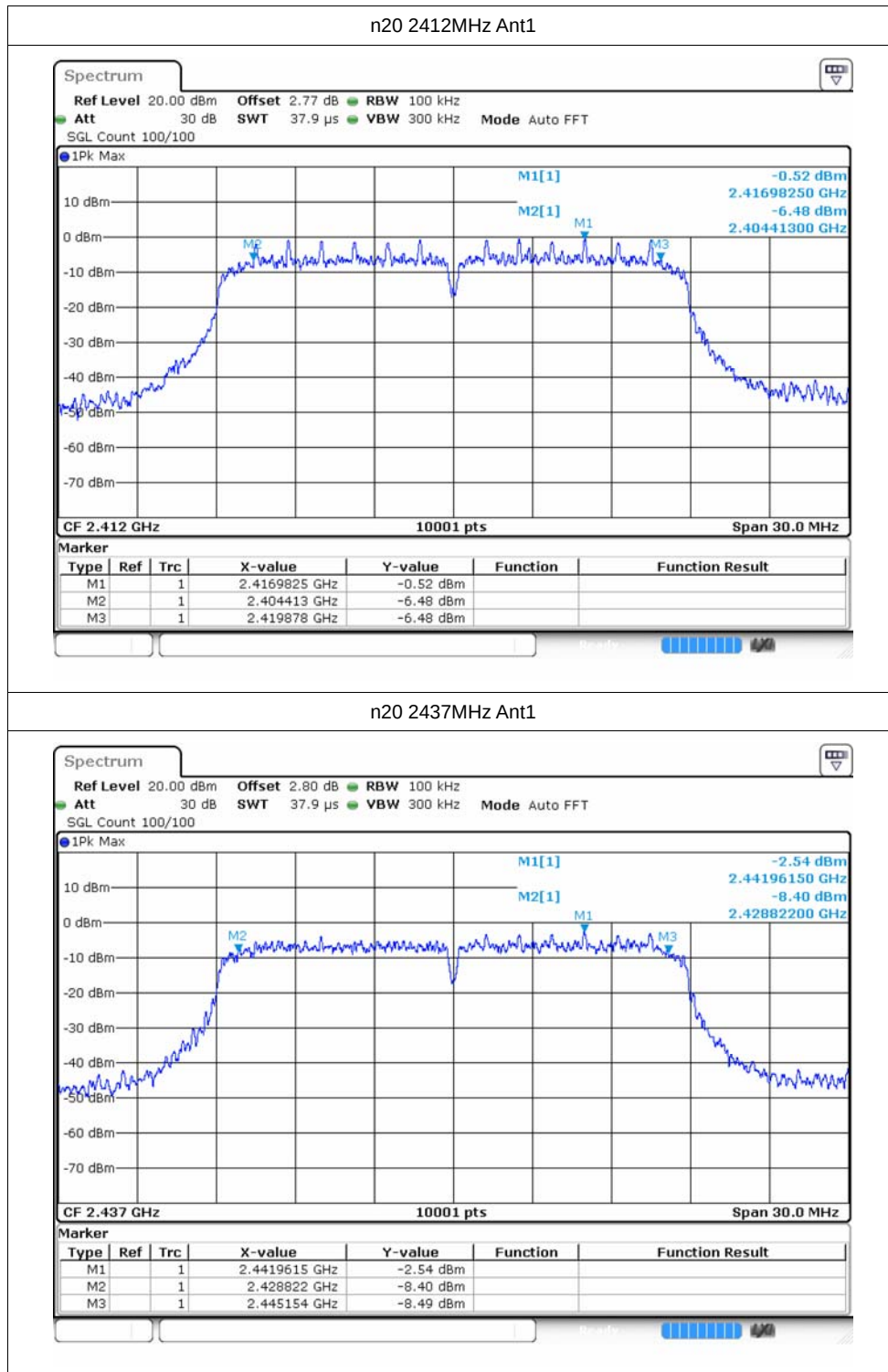


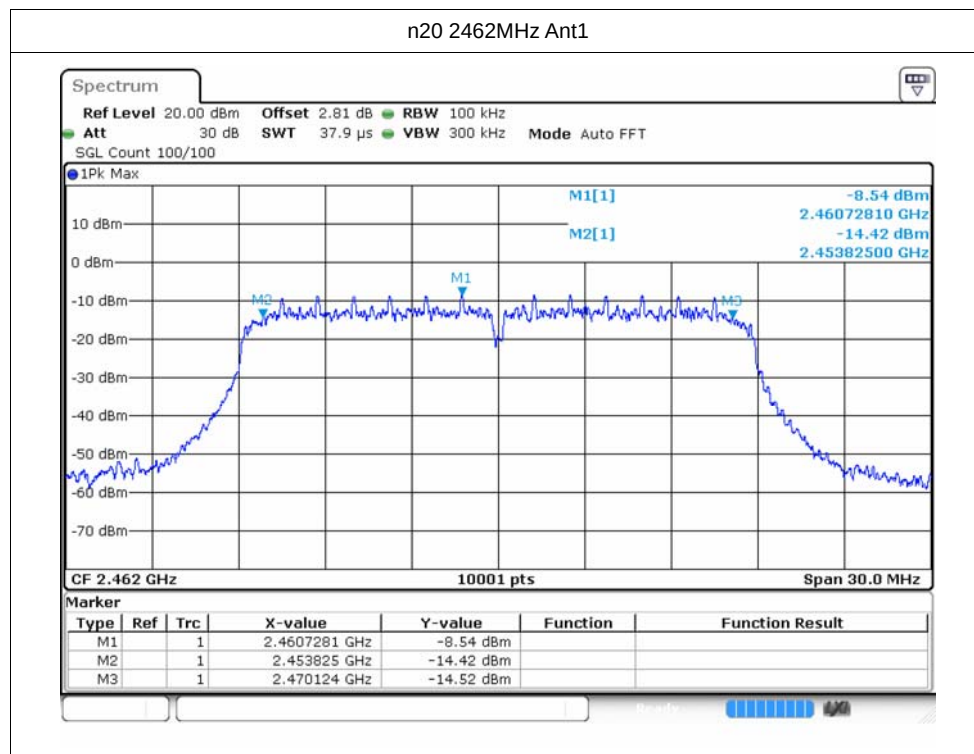
g 2437MHz Ant1



g 2462MHz Ant1





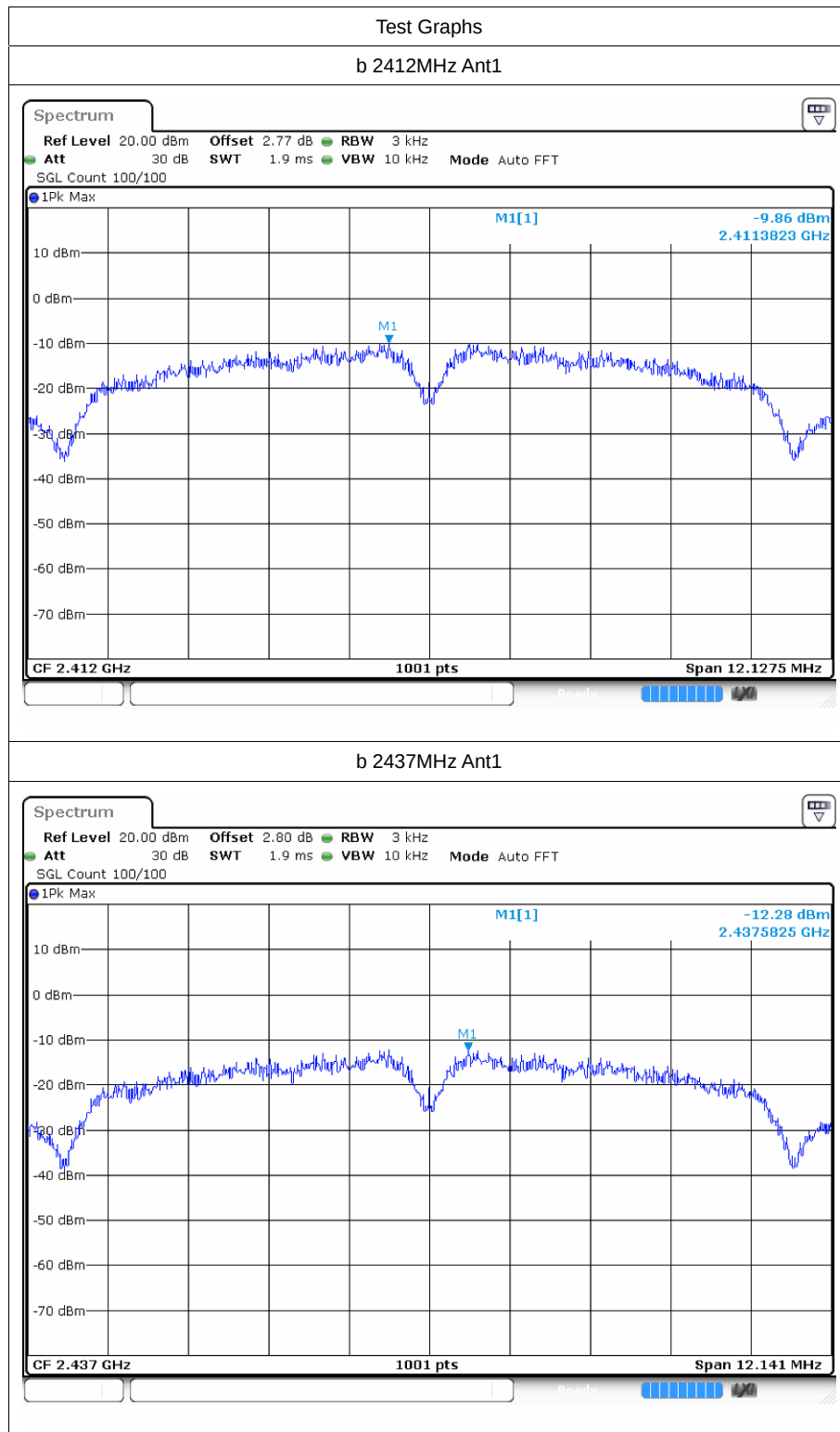


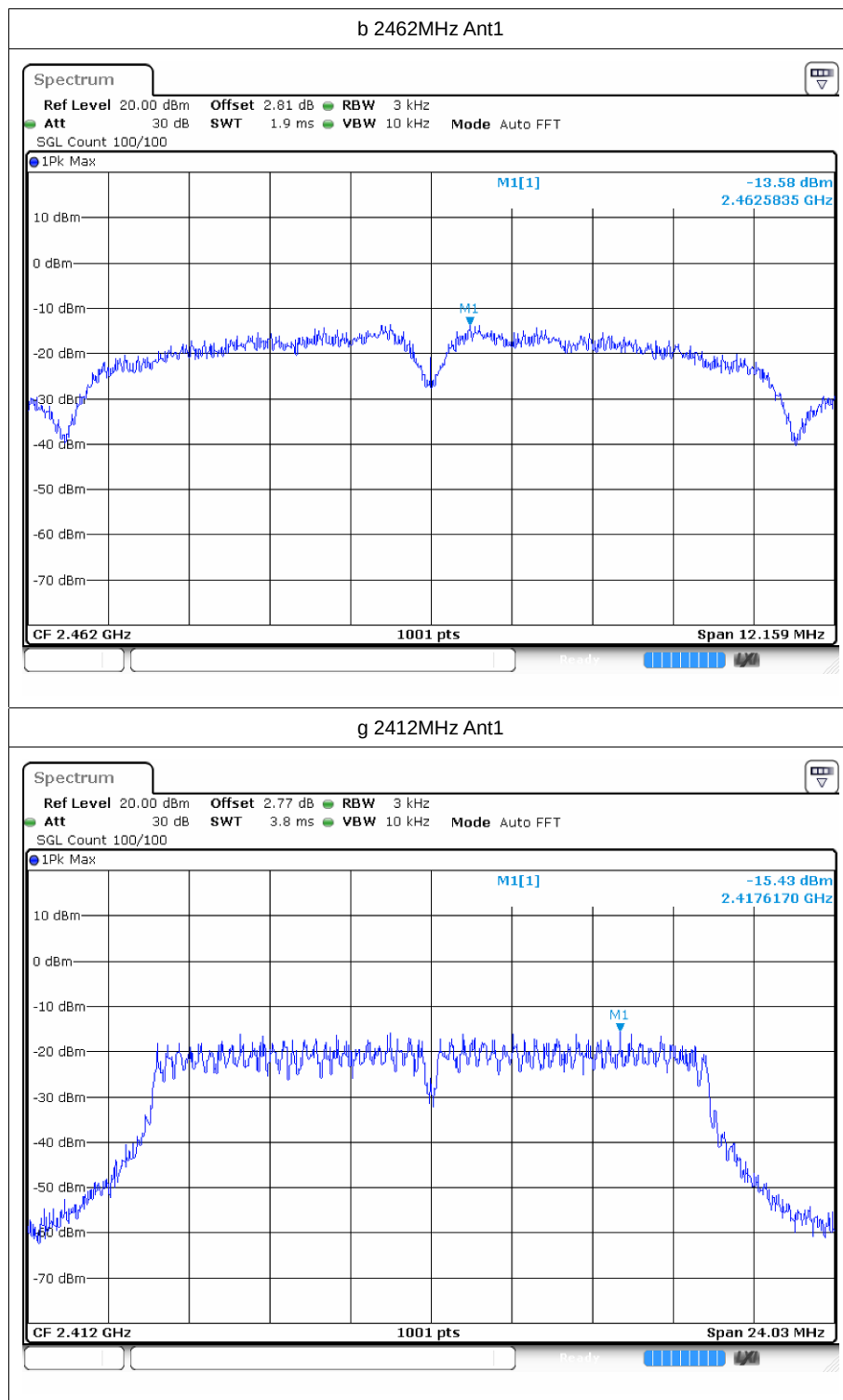
4 Maximum Power Spectral Density Level

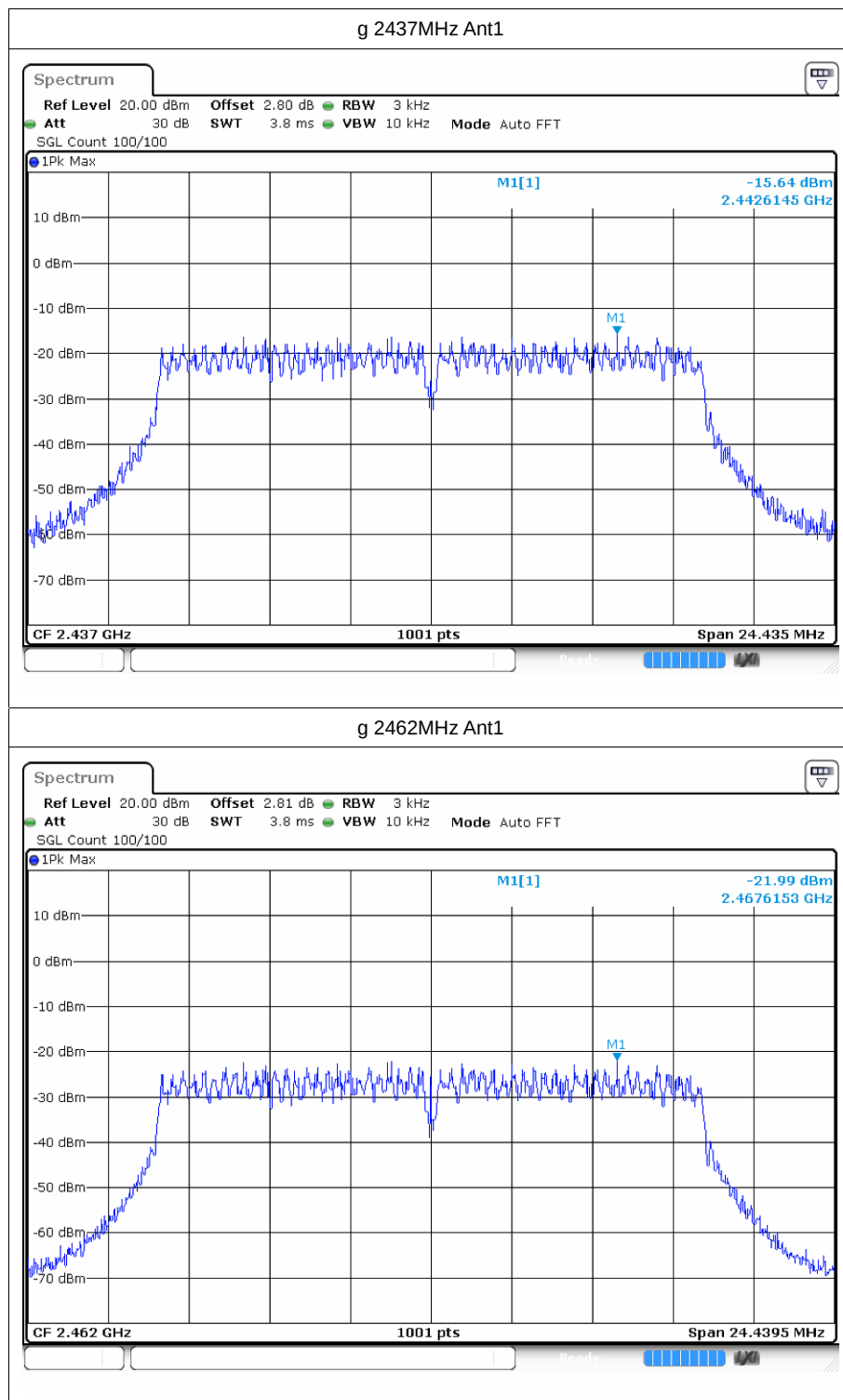
4.1 Test Result

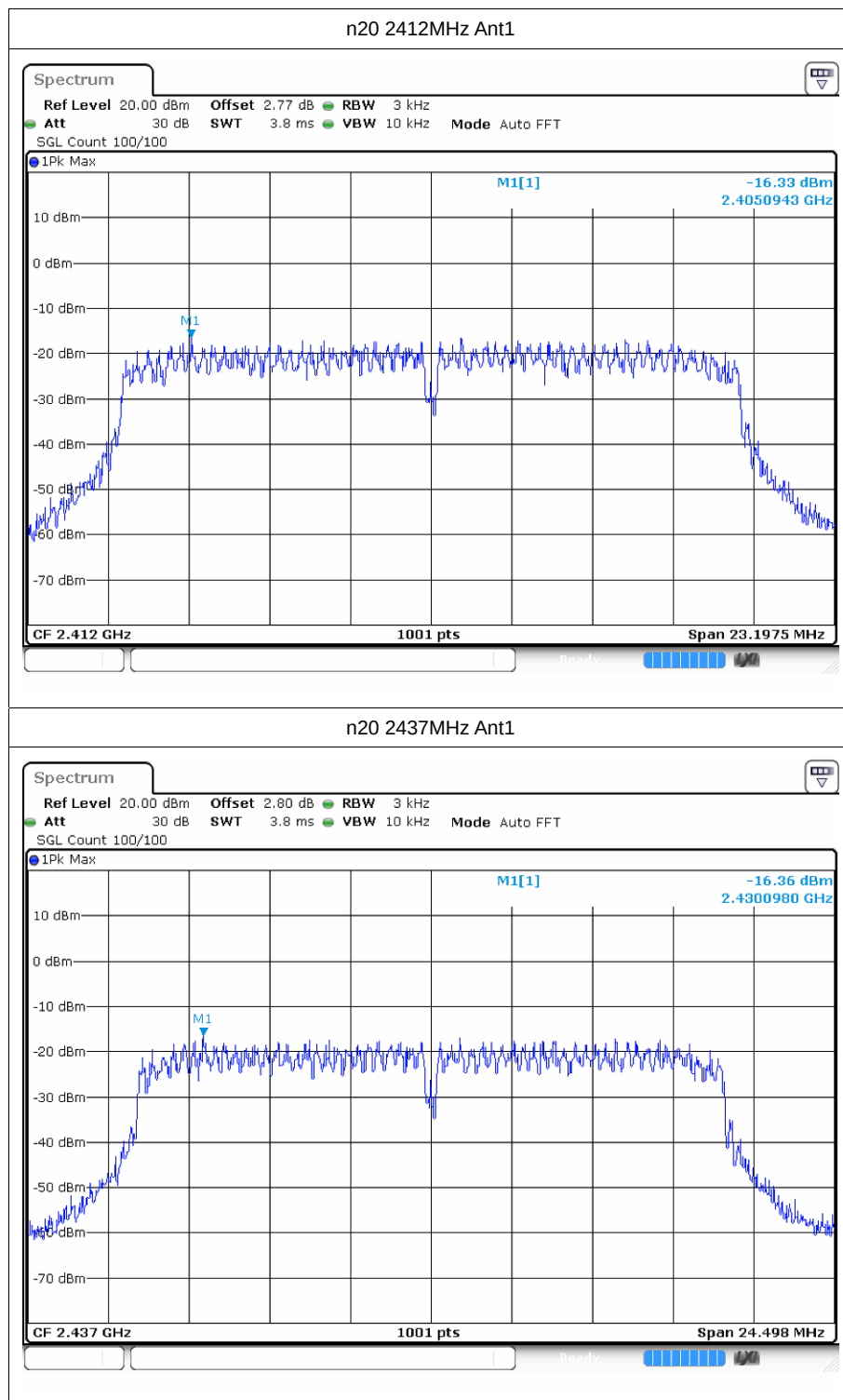
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
b	2412	Ant1	-9.86	≤ 8	Pass
b	2437	Ant1	-12.28	≤ 8	Pass
b	2462	Ant1	-13.58	≤ 8	Pass
g	2412	Ant1	-15.43	≤ 8	Pass
g	2437	Ant1	-15.64	≤ 8	Pass
g	2462	Ant1	-21.99	≤ 8	Pass
n20	2412	Ant1	-16.33	≤ 8	Pass
n20	2437	Ant1	-16.36	≤ 8	Pass
n20	2462	Ant1	-22.5	≤ 8	Pass

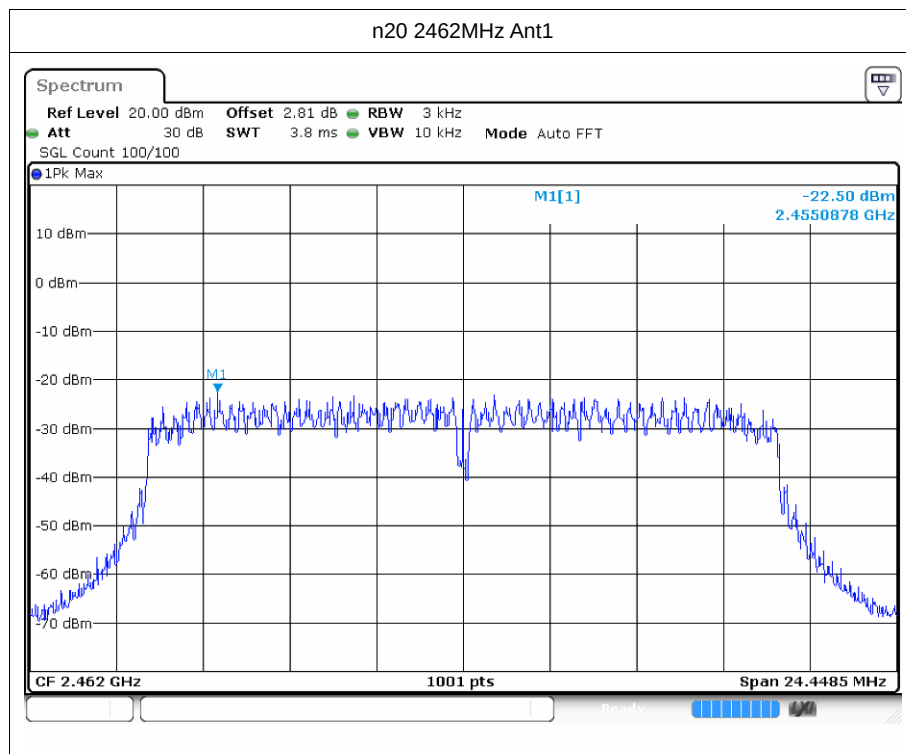
4.2 Test Graphs











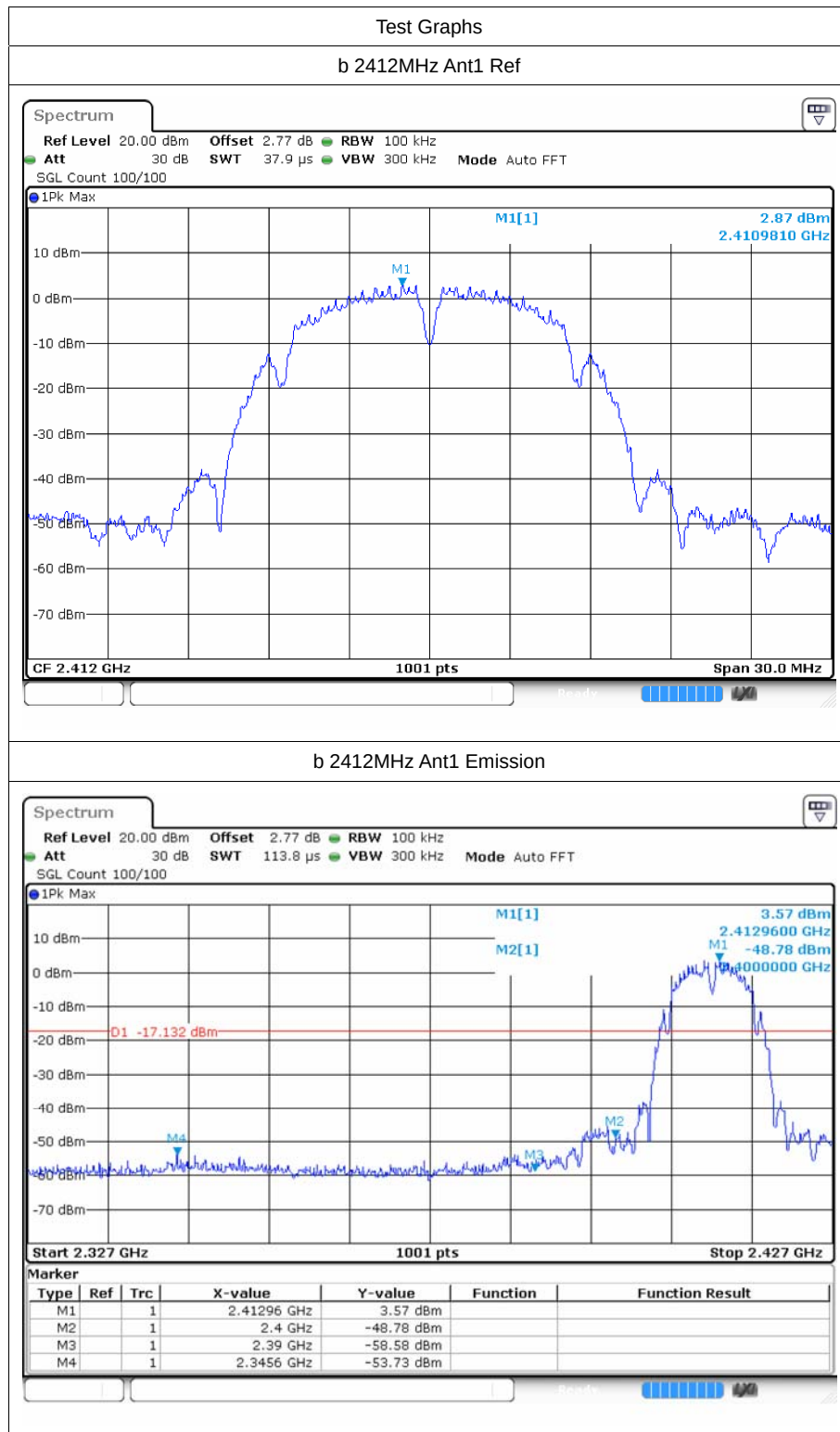


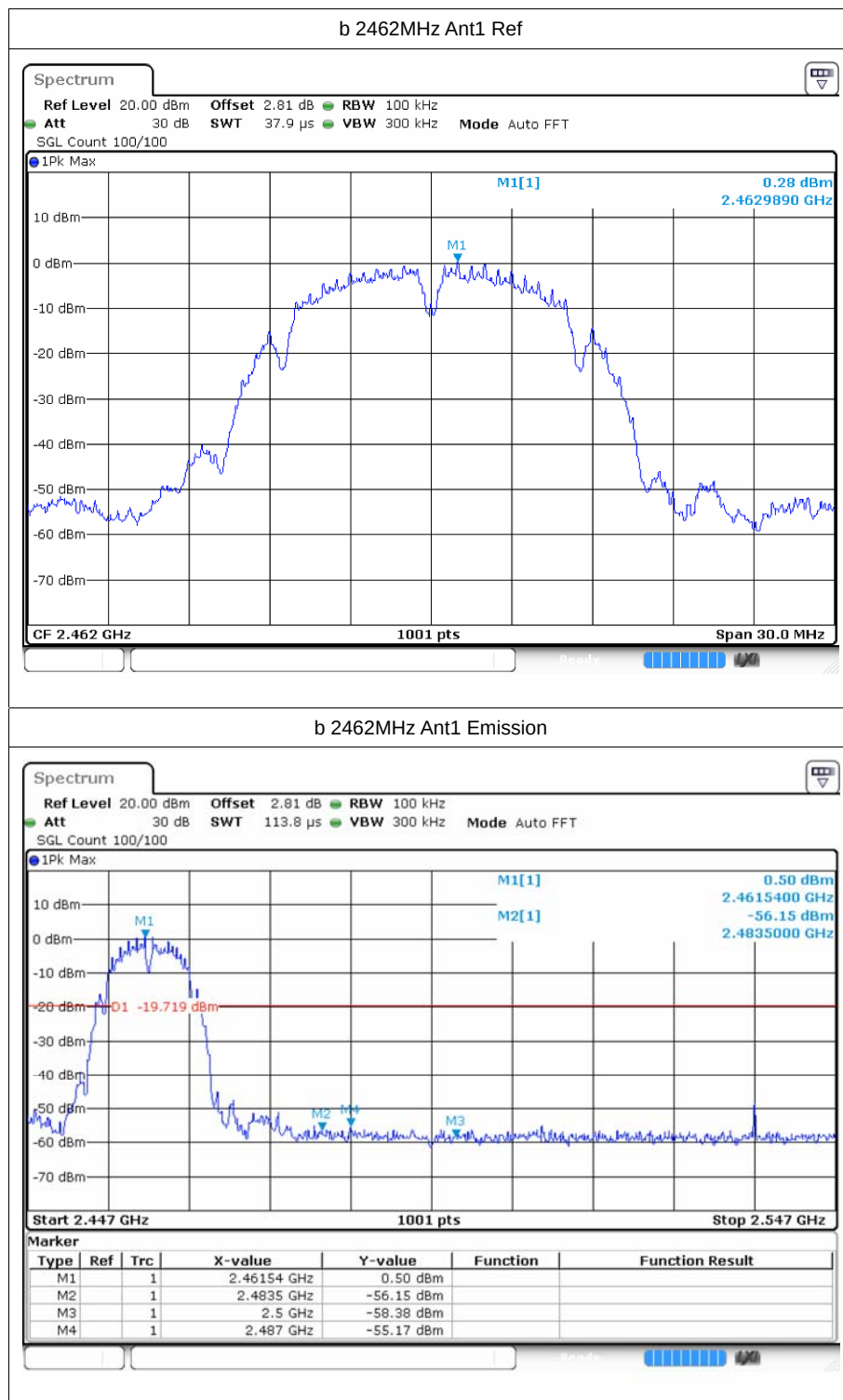
5 Band Edge

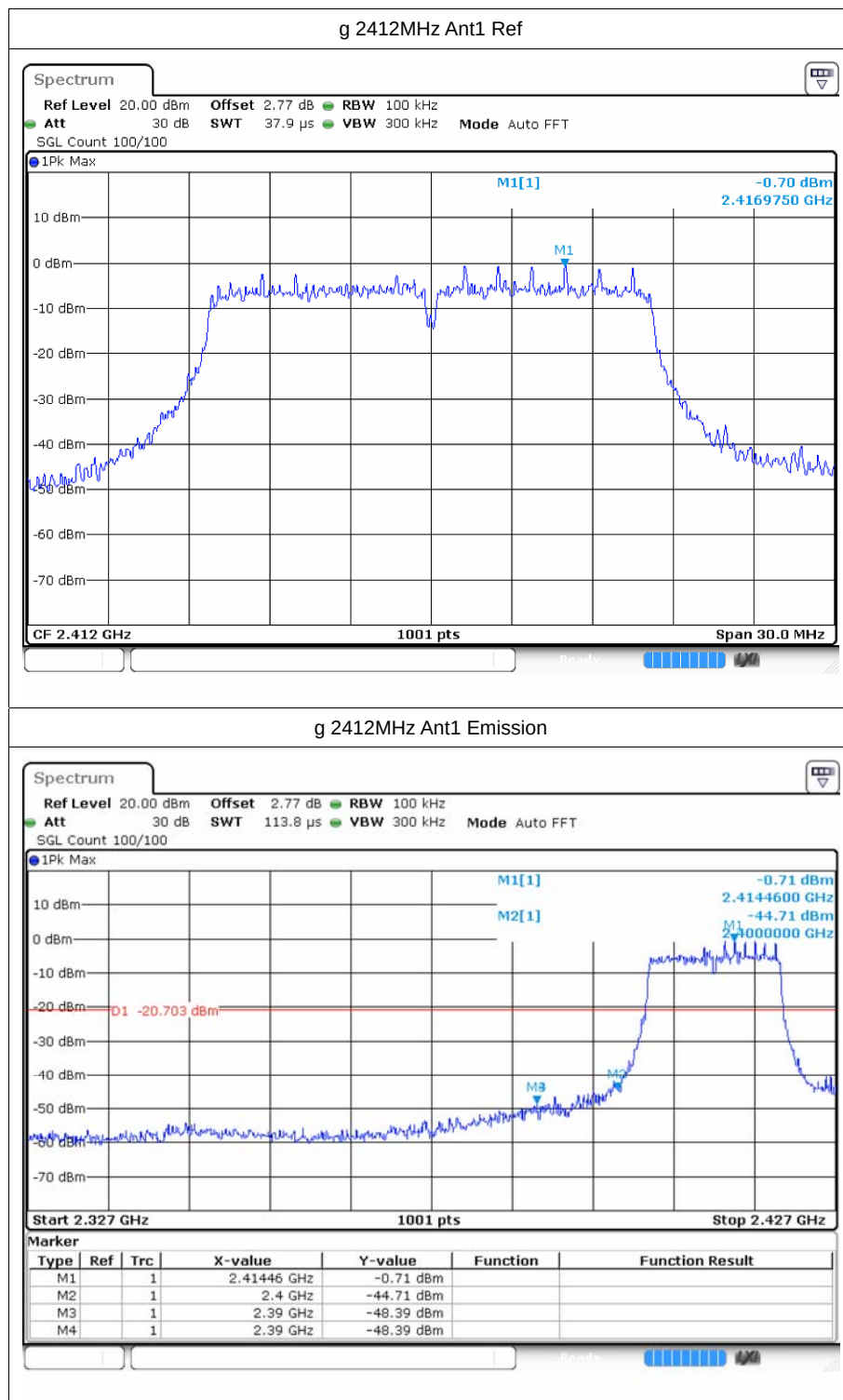
5.1 Test Result

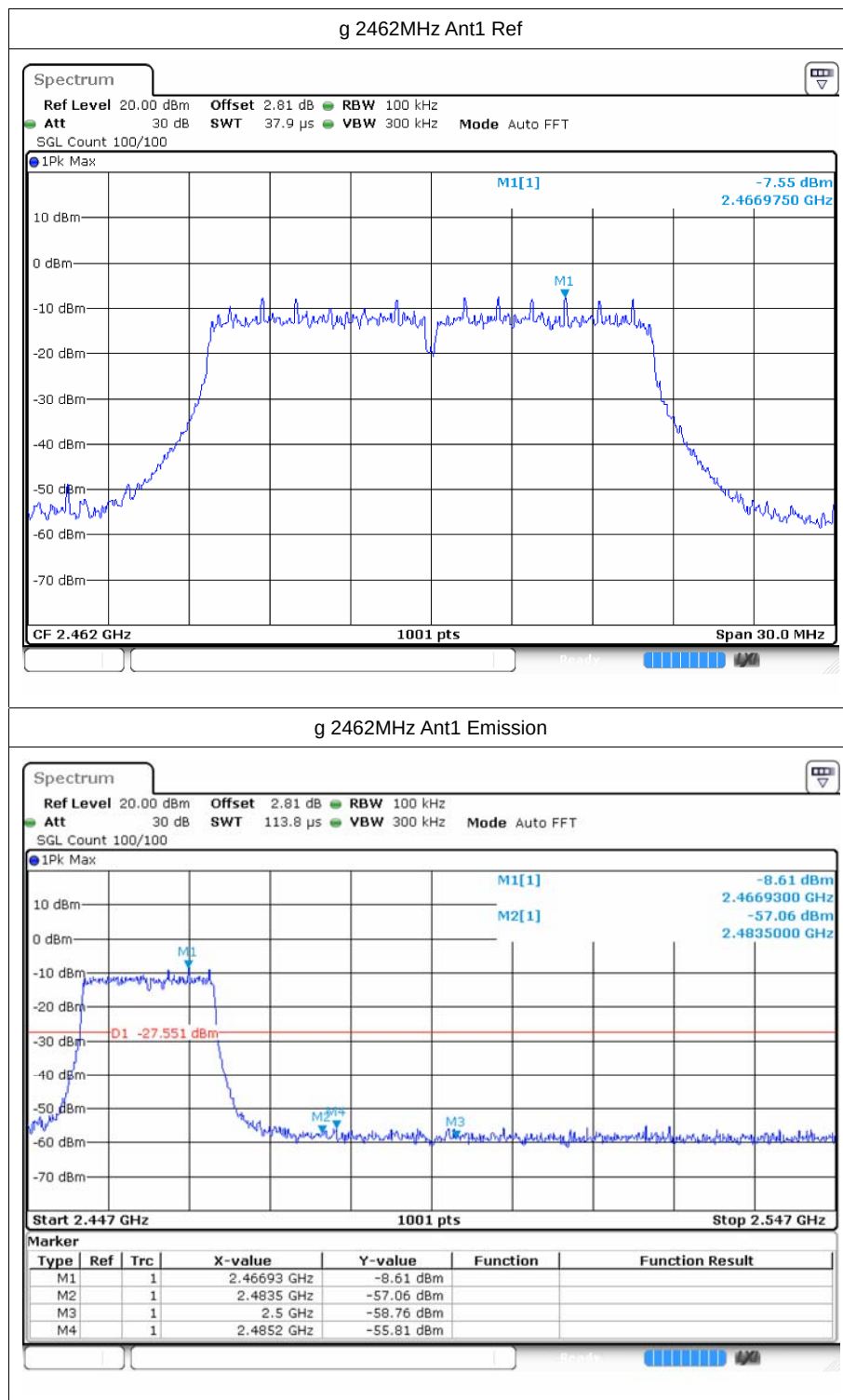
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-56.6	-20	-56.6
b	2462	Ant1	-55.45	-20	Pass
g	2412	Ant1	-47.68	-20	Pass
g	2462	Ant1	-48.26	-20	Pass
n20	2412	Ant1	-46.17	-20	Pass
n20	2462	Ant1	-47.47	-20	Pass

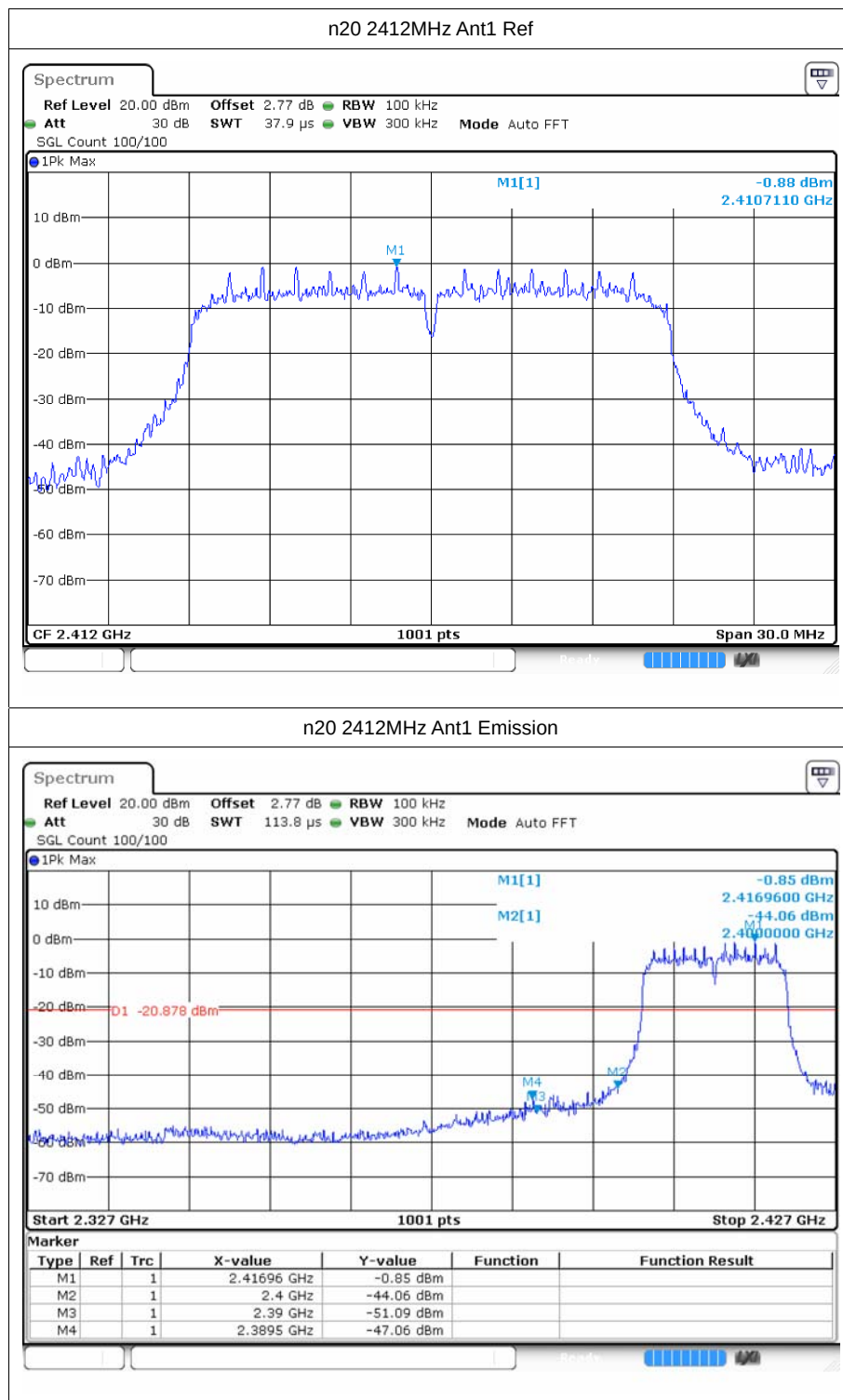
5.2 Test Graphs

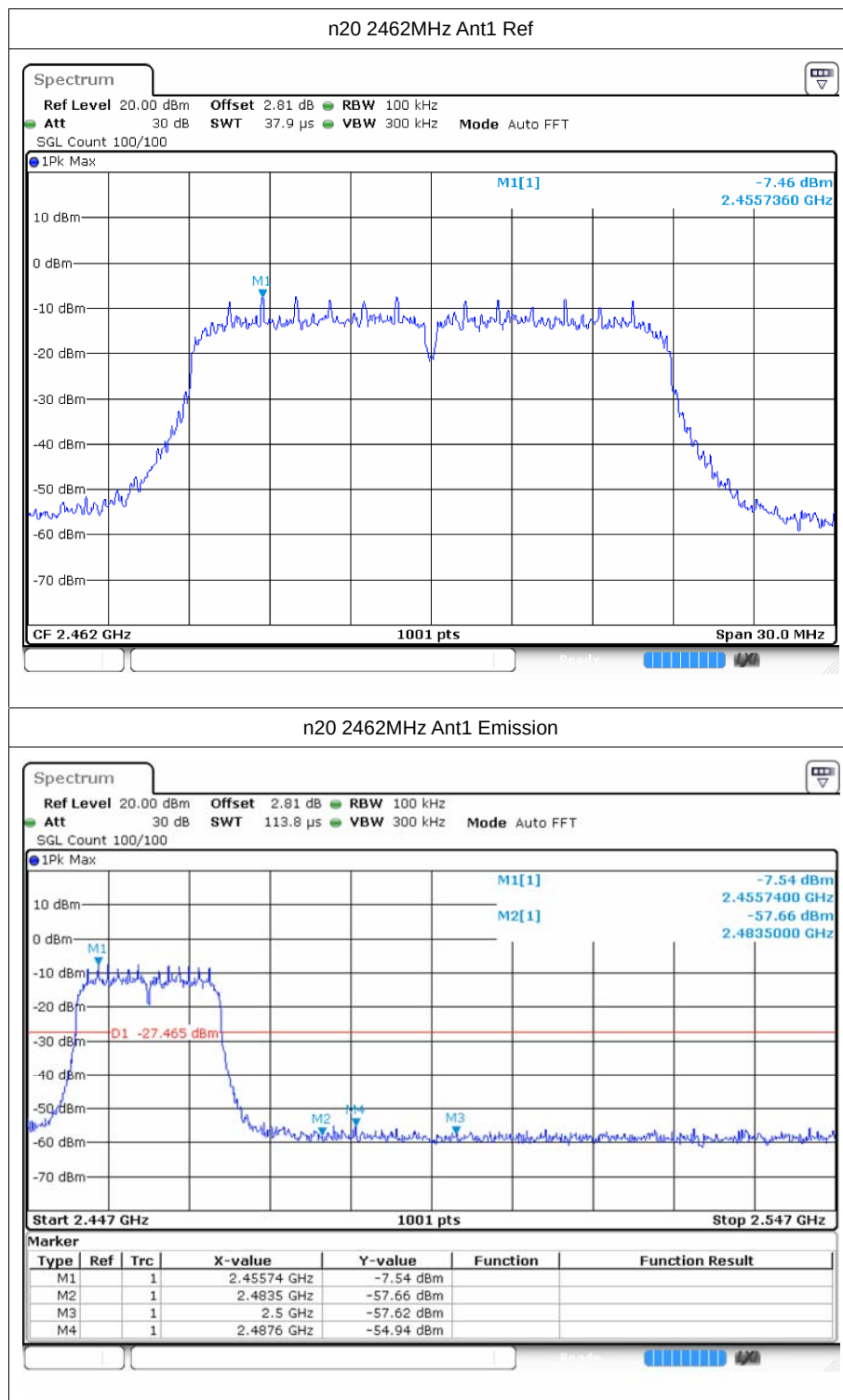












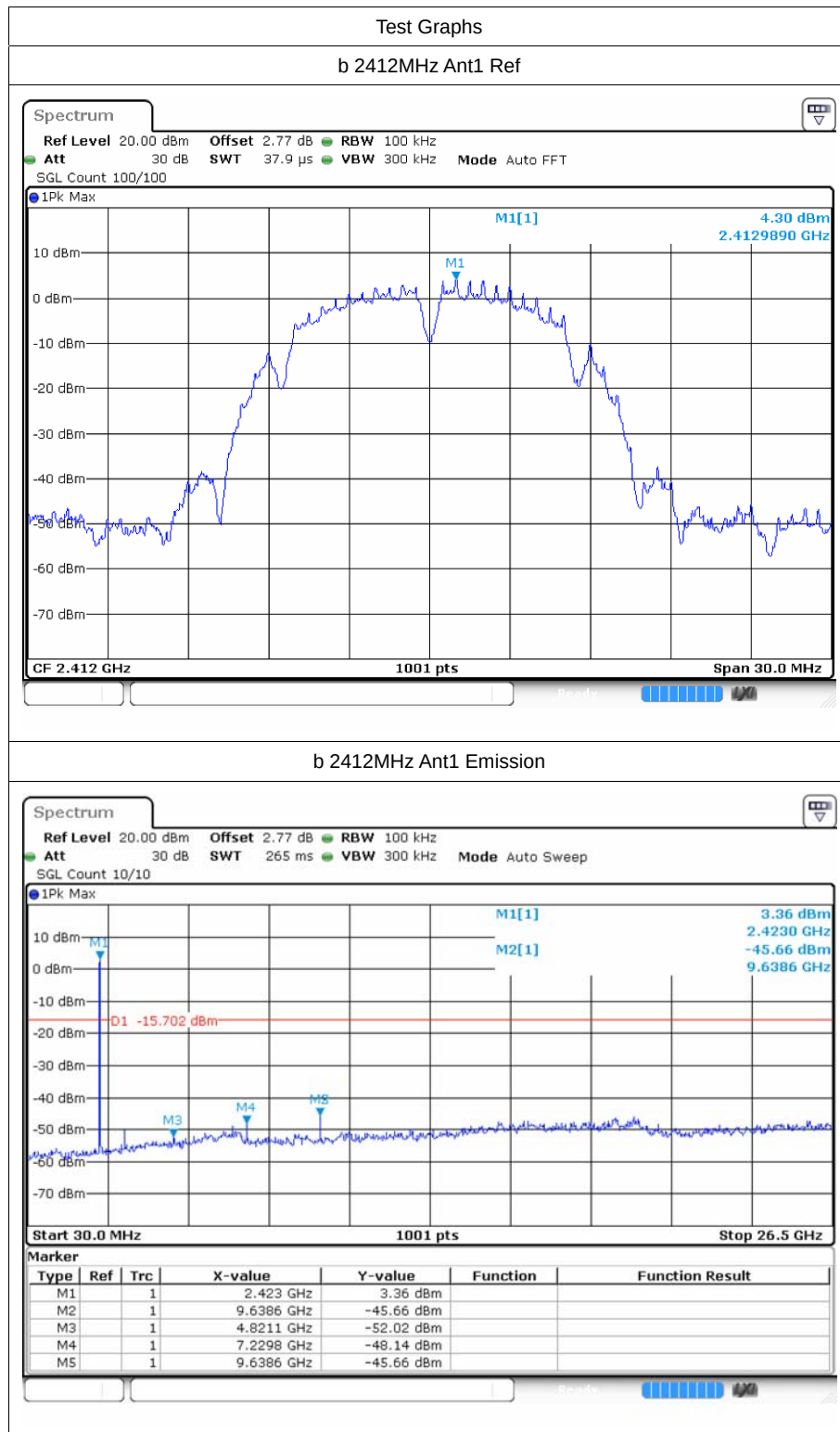


6 Conducted RF Spurious Emission

6.1 Test Result

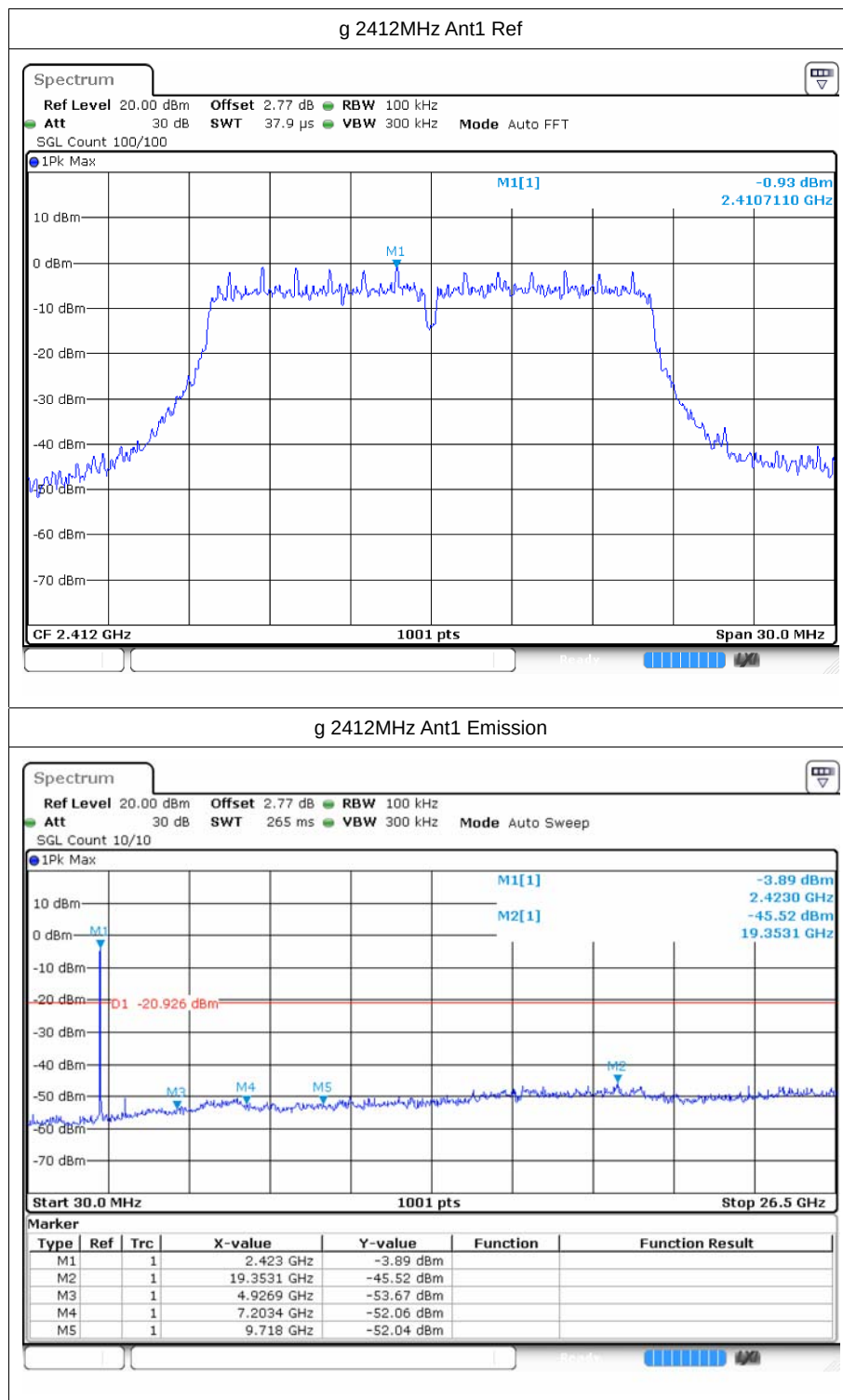
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-49.96	-20	Pass
b	2437	Ant1	-46.57	-20	Pass
b	2462	Ant1	-45.64	-20	Pass
g	2412	Ant1	-44.58	-20	Pass
g	2437	Ant1	-41.33	-20	Pass
g	2462	Ant1	-38.44	-20	Pass
n20	2412	Ant1	-44.28	-20	Pass
n20	2437	Ant1	-45.08	-20	Pass
n20	2462	Ant1	-38.84	-20	Pass

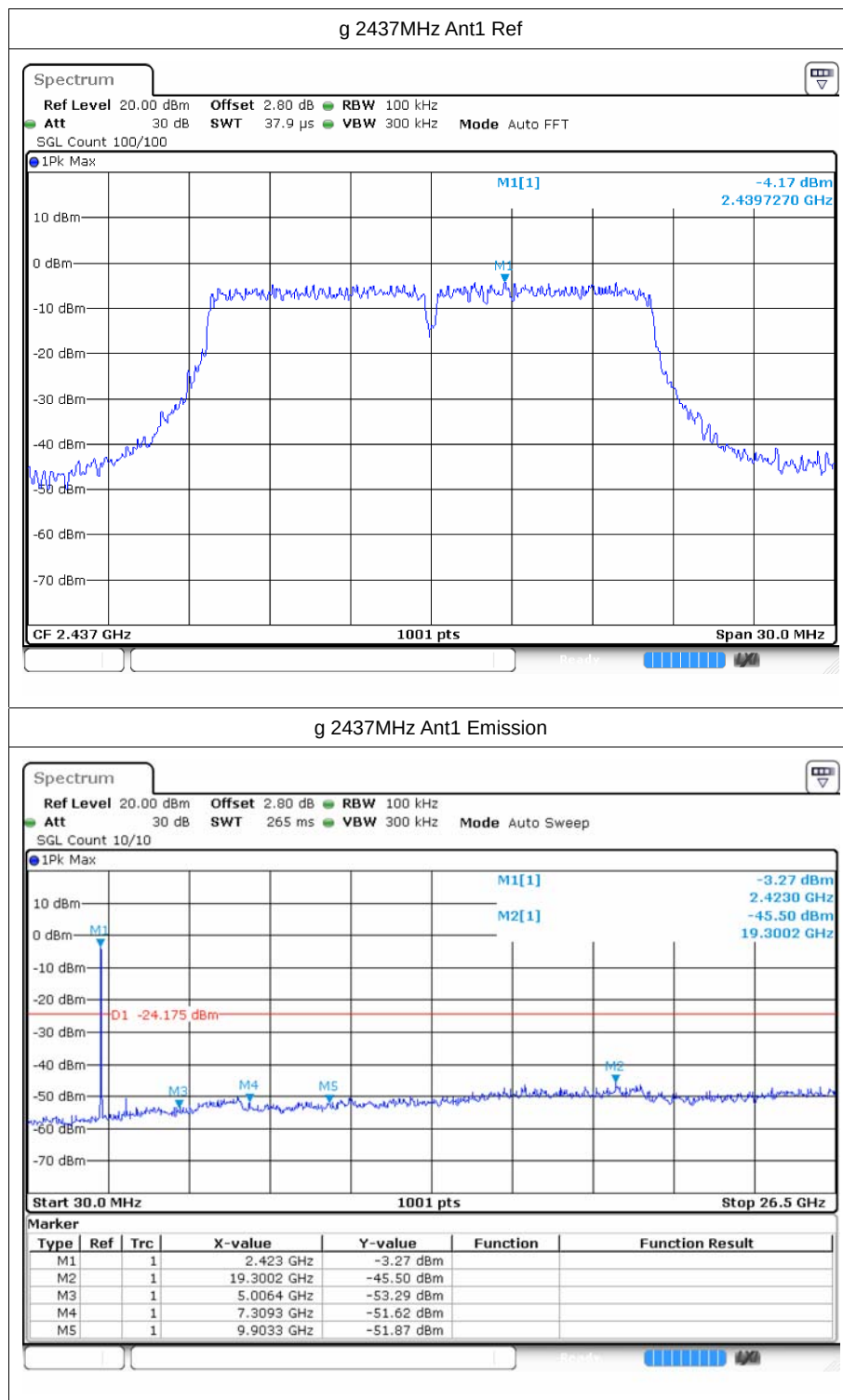
6.2 Test Graphs

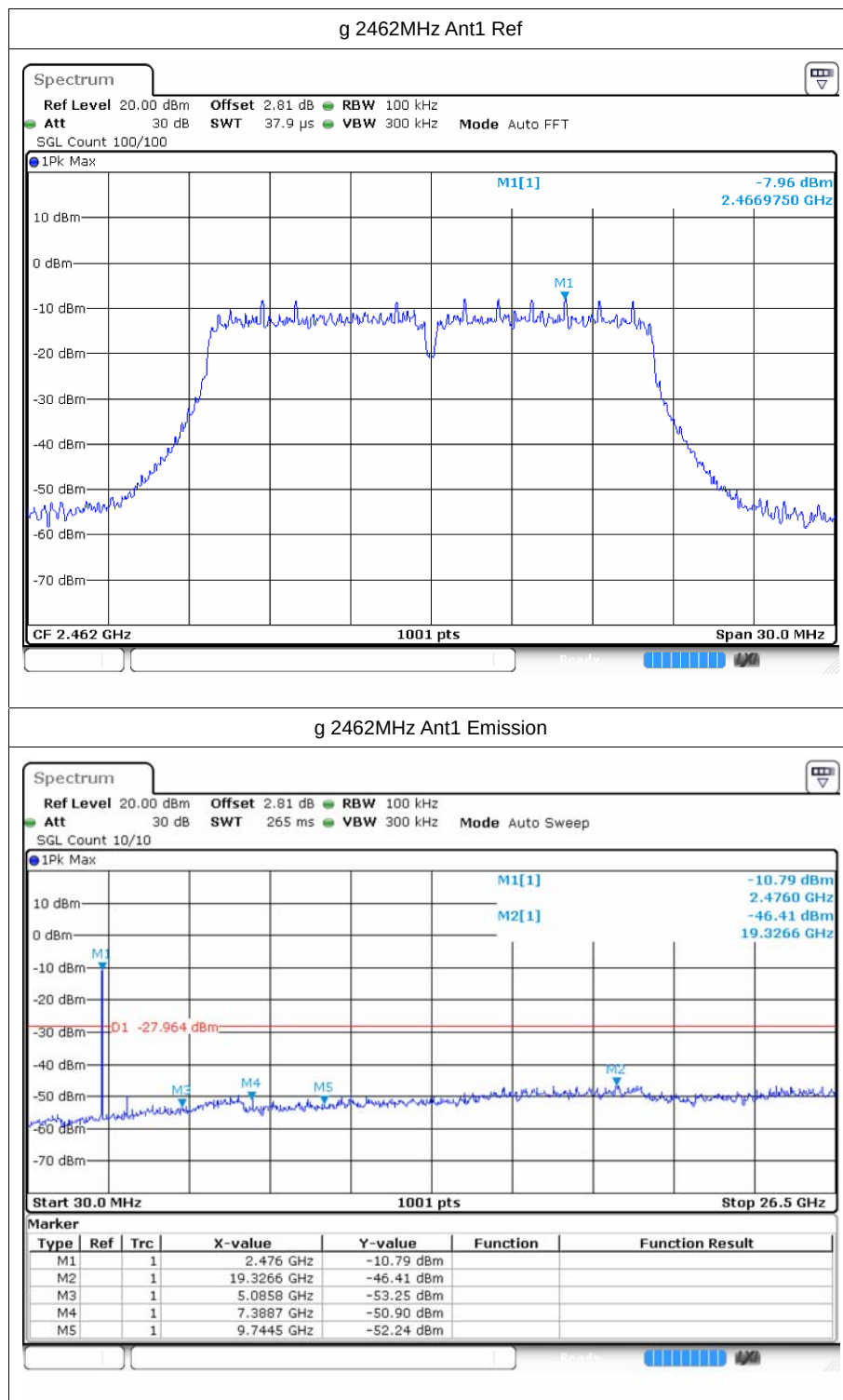


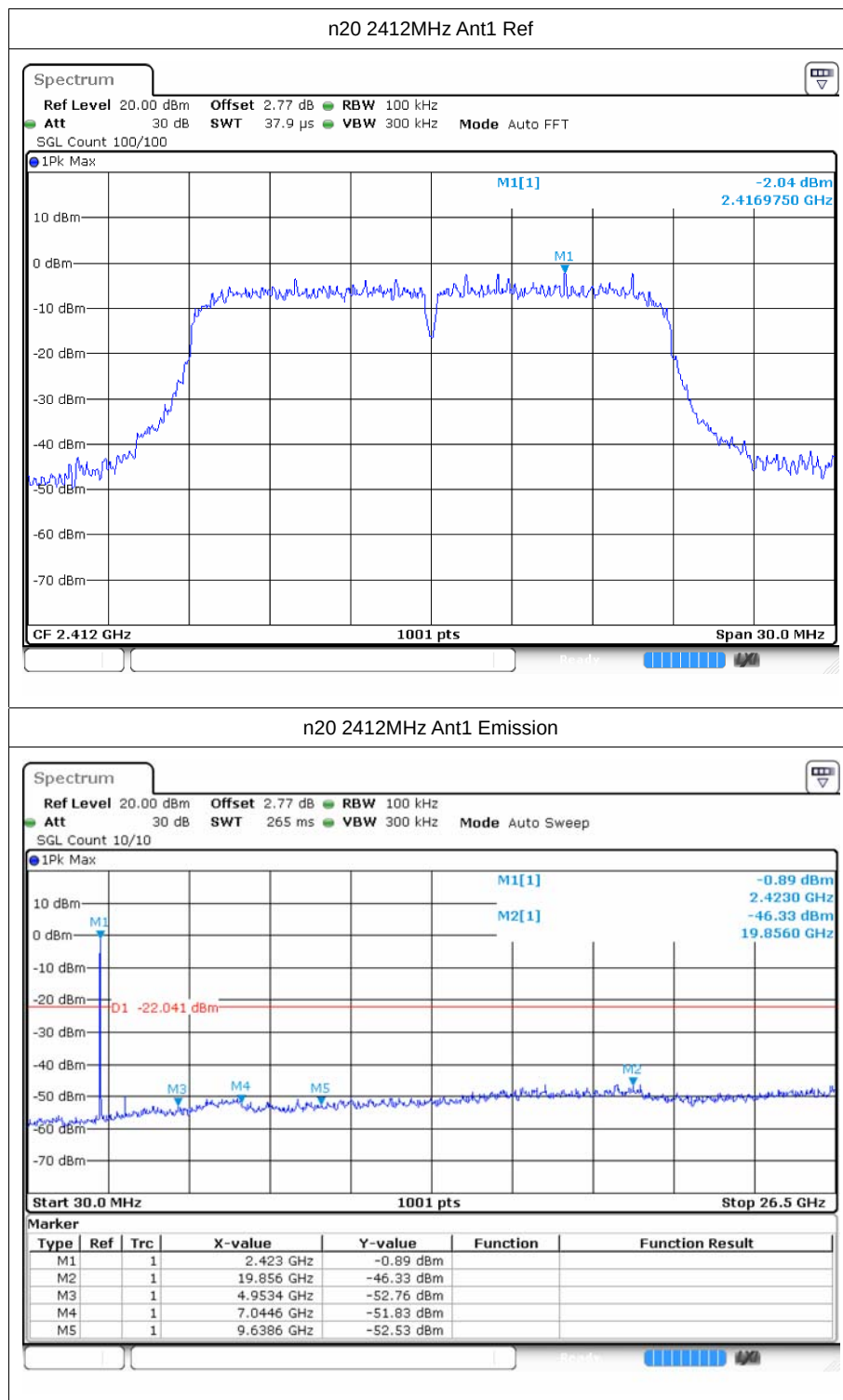


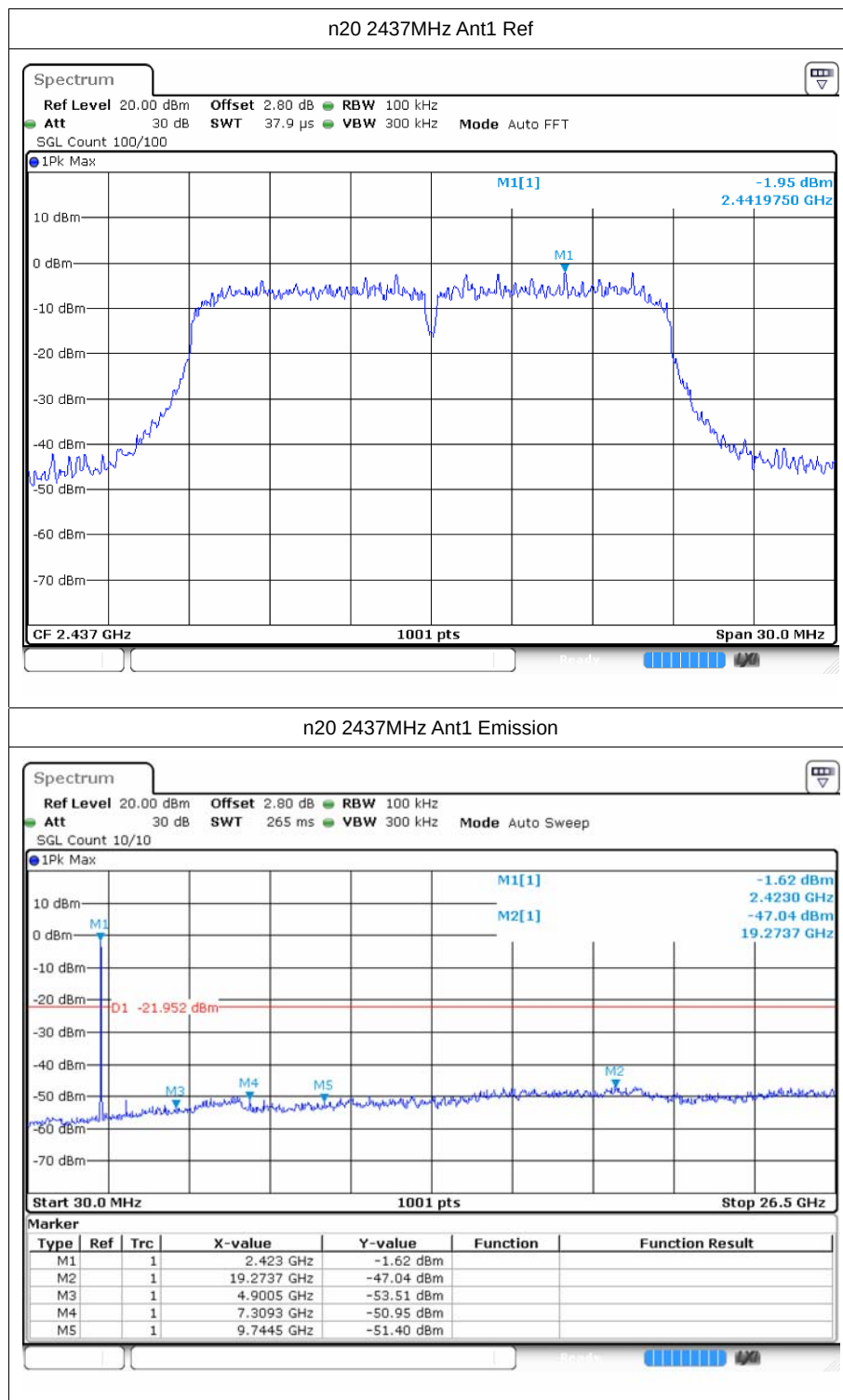


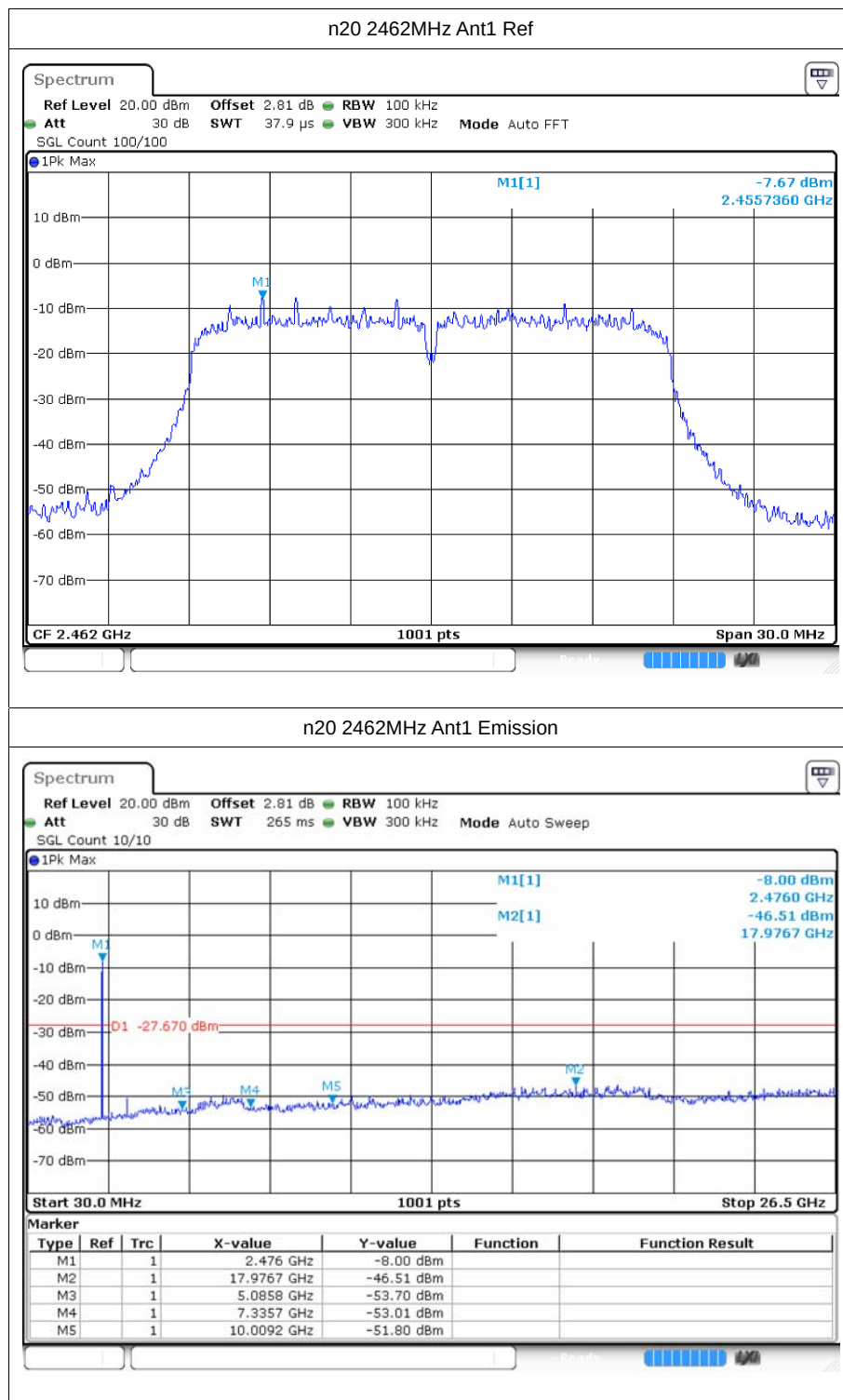














7 Restrict Band

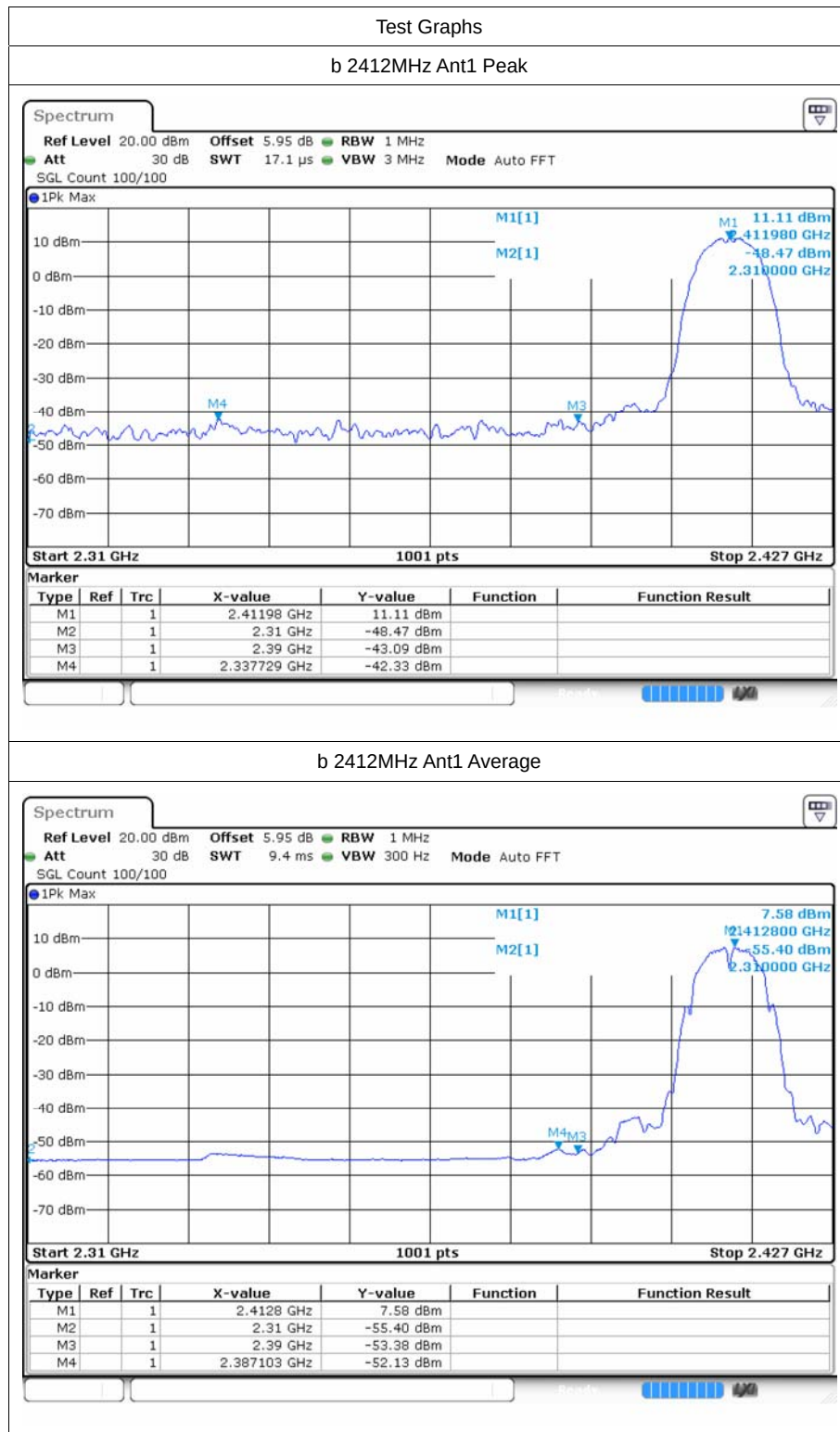
7.1 Test Result

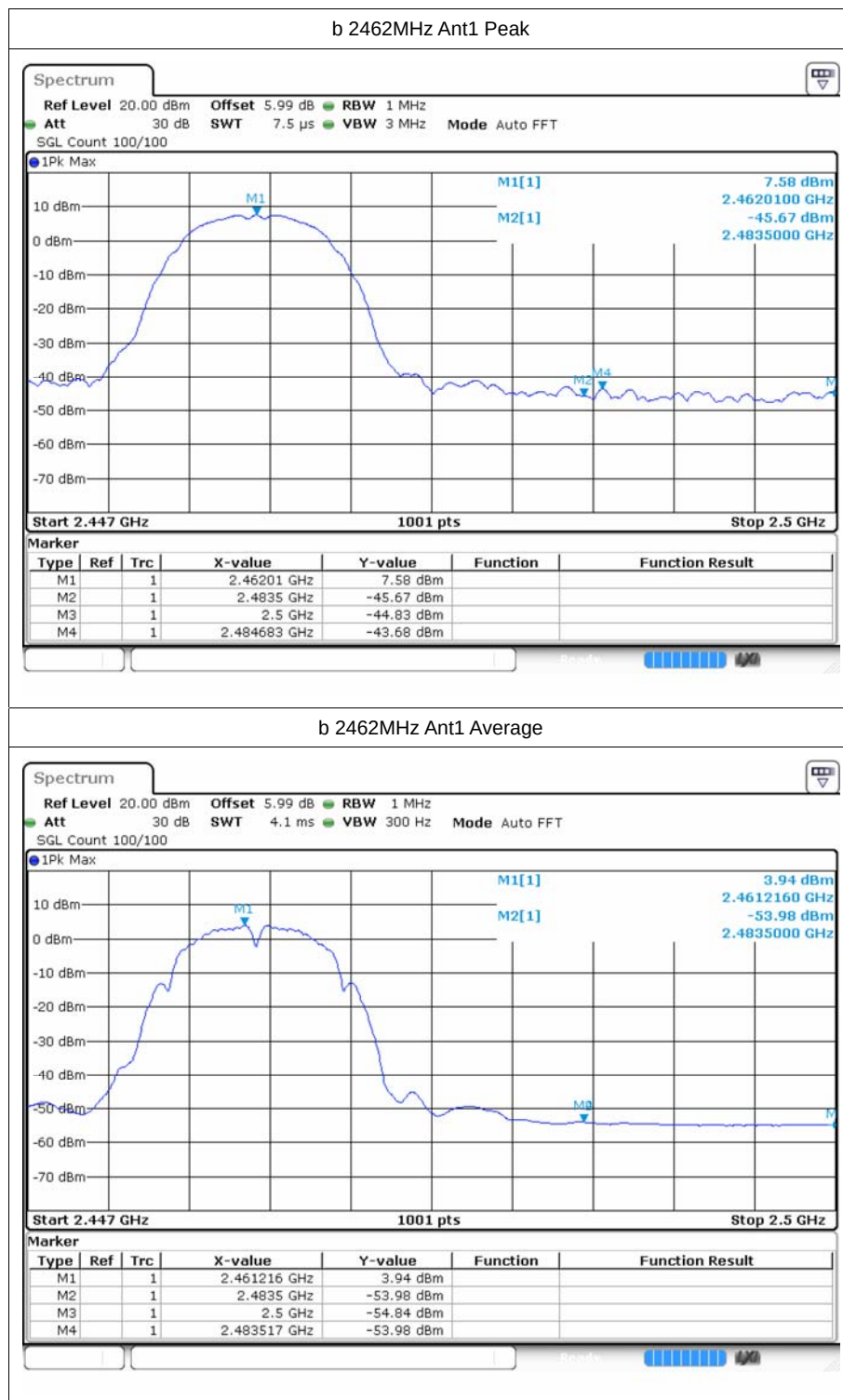
Mod e	Frequency (MHz)	Antenn a	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detecto r	Limit (dBuV/m)	Verdic t
b	2412	Ant1	2310	-48.46	2	48.77	Peak	74	Pass
b	2412	Ant1	2310	-55.4	2	41.83	Average	54	Pass
b	2412	Ant1	2337.729	-42.33	2	54.9	Peak	74	Pass
b	2412	Ant1	2387.103	-52.13	2	45.1	Average	54	Pass
b	2412	Ant1	2390	-43.09	2	54.14	Peak	74	Pass
b	2412	Ant1	2390	-53.38	2	43.85	Average	54	Pass
b	2462	Ant1	2483.5	-45.67	2	51.56	Peak	74	52.77
b	2462	Ant1	2483.5	-53.98	2	43.25	Average	54	Pass
b	2462	Ant1	2484.683	-43.68	2	53.55	Peak	74	Pass
b	2462	Ant1	2483.517	-53.98	2	43.25	Average	54	Pass
b	2462	Ant1	2500	-44.83	2	52.4	Peak	74	Pass
b	2462	Ant1	2500	-54.83	2	42.4	Average	54	Pass
g	2412	Ant1	2310	-45.67	2	51.56	Peak	74	Pass
g	2412	Ant1	2310	-54.8	2	42.43	Average	54	Pass
g	2412	Ant1	2389.677	-31.85	2	65.38	Peak	74	Pass
g	2412	Ant1	2388.975	-48.37	2	48.86	Average	54	Pass
g	2412	Ant1	2390	-32.09	2	65.14	Peak	74	Pass
g	2412	Ant1	2390	-48.66	2	48.57	Average	54	Pass
g	2462	Ant1	2483.5	-47.25	2	49.98	Peak	74	Pass
g	2462	Ant1	2483.5	-53.96	2	43.27	Average	54	Pass
g	2462	Ant1	2484.683	-43.52	2	53.71	Peak	74	Pass
g	2462	Ant1	2486.114	-53.68	2	43.55	Average	54	Pass
g	2462	Ant1	2500	-46.46	2	50.77	Peak	74	Pass
g	2462	Ant1	2500	-54.15	2	43.08	Average	54	Pass
n20	2412	Ant1	2310	-45.48	2	51.75	Peak	74	Pass
n20	2412	Ant1	2310	-55.04	2	42.19	Average	54	Pass
n20	2412	Ant1	2387.337	-34.96	2	62.27	Peak	74	Pass
n20	2412	Ant1	2389.209	-48.29	2	48.94	Average	54	Pass
n20	2412	Ant1	2390	-35.98	2	61.25	Peak	74	Pass
n20	2412	Ant1	2390	-48.32	2	48.91	Average	54	Pass
n20	2462	Ant1	2483.5	-47.74	2	49.49	Peak	74	Pass
n20	2462	Ant1	2483.5	-53.66	2	43.57	Average	54	Pass
n20	2462	Ant1	2488.658	-42.73	2	54.5	Peak	74	Pass
n20	2462	Ant1	2485.584	-53.43	2	43.8	Average	54	Pass

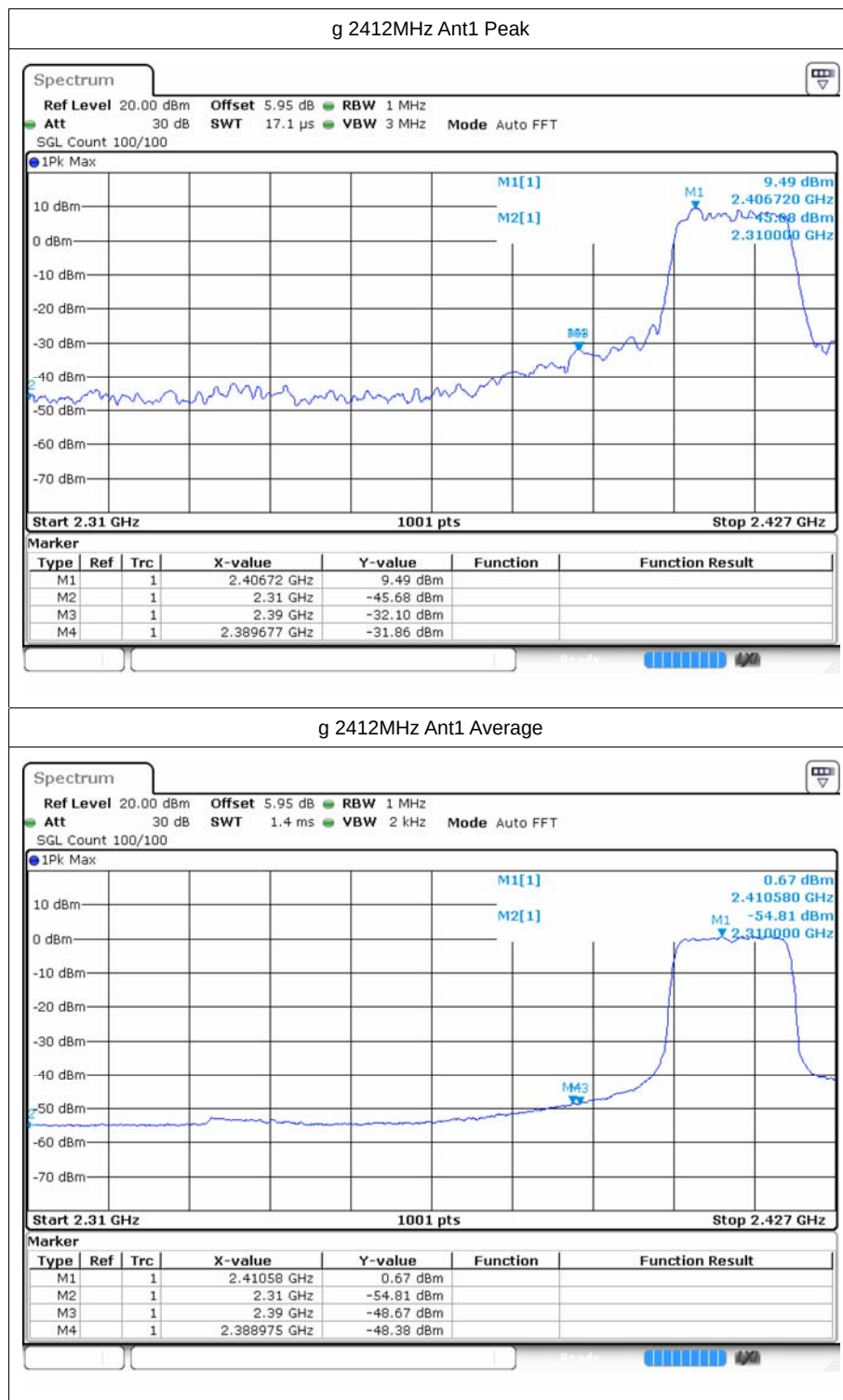


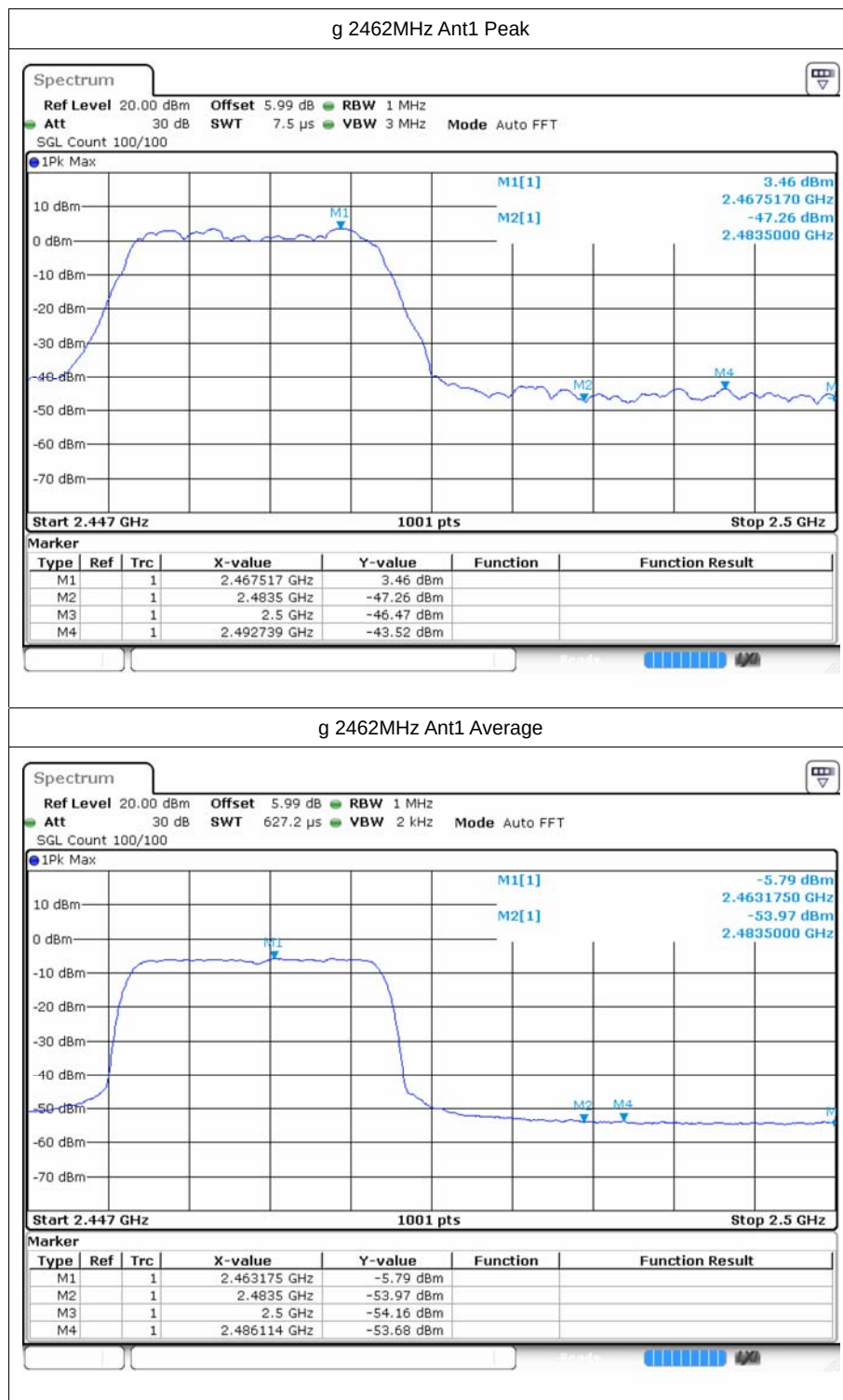
n20	2462	Ant1	2500	-45.82	2	51.41	Peak	74	Pass
n20	2462	Ant1	2500	-54.18	2	43.05	Average	54	Pass

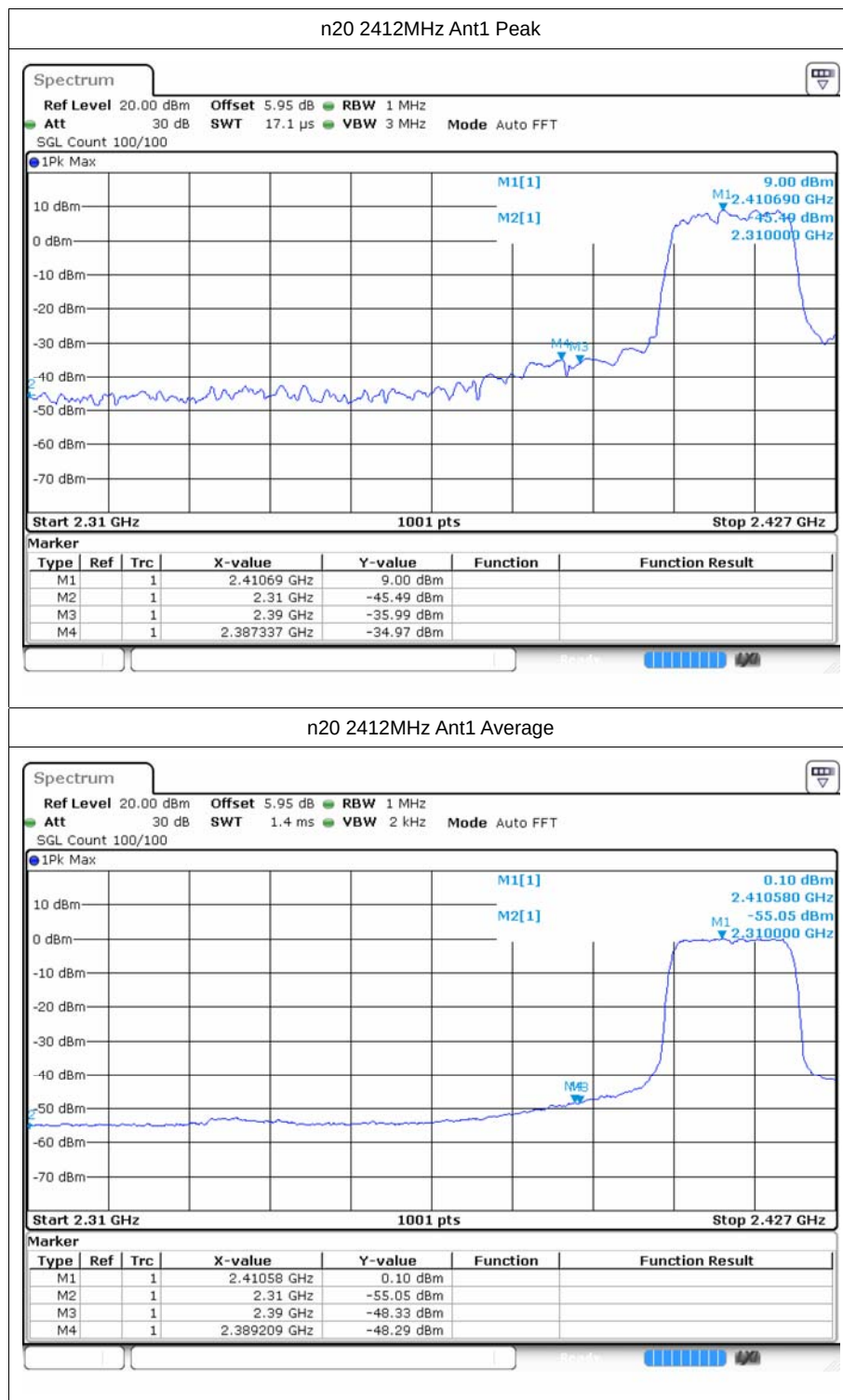
7.2 Test Graphs

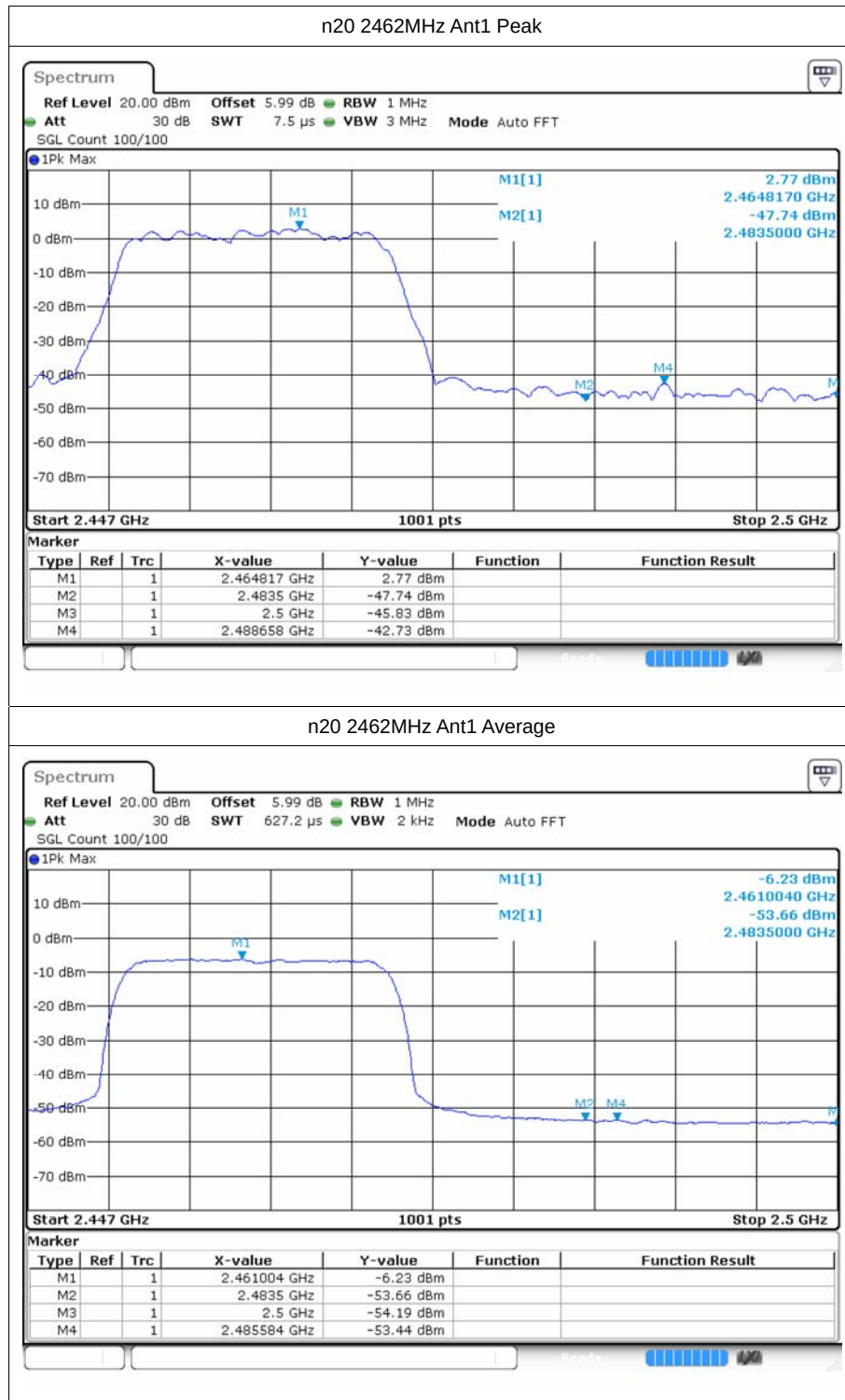












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