



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Table Lamp

Trade Mark: N/A

Test Model: S550

Environmental Conditions

Temperature:	22.6° C
Relative Humidity:	43.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Simba Huang
Supervised by:	Seal Chen



Contents

	Page
COVER PAGE	
1 Duty Cycle	3
1.1 Test Result.....	3
1.2 Test Graphs	4
2 Maximum Conducted Output Power	9
2.1 Test Result.....	9
3 -6dB Bandwidth	10
3.1 Test Result.....	10
3.2 Test Graphs	11
4 Maximum Power Spectral Density Level	16
4.1 Test Result.....	16
4.2 Test Graphs	17
5 Band Edge.....	22
5.1 Test Result.....	22
5.2 Test Graphs	23
6 Conducted RF Spurious Emission.....	29
6.1 Test Result.....	29
6.2 Test Graphs	30
7 Restrict Band	39
7.1 Test Result.....	39
7.2 Test Graphs	41



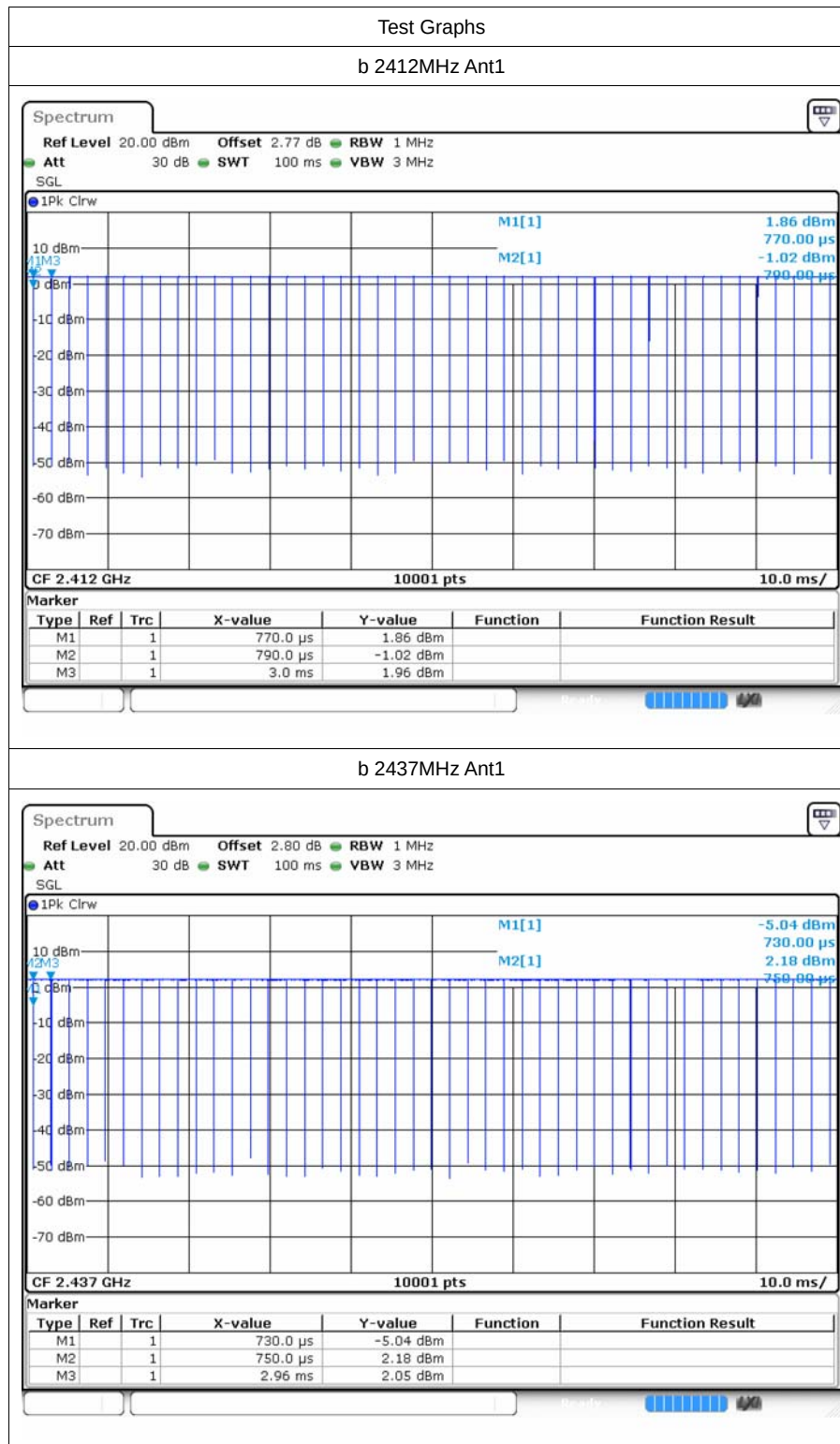
1 Duty Cycle

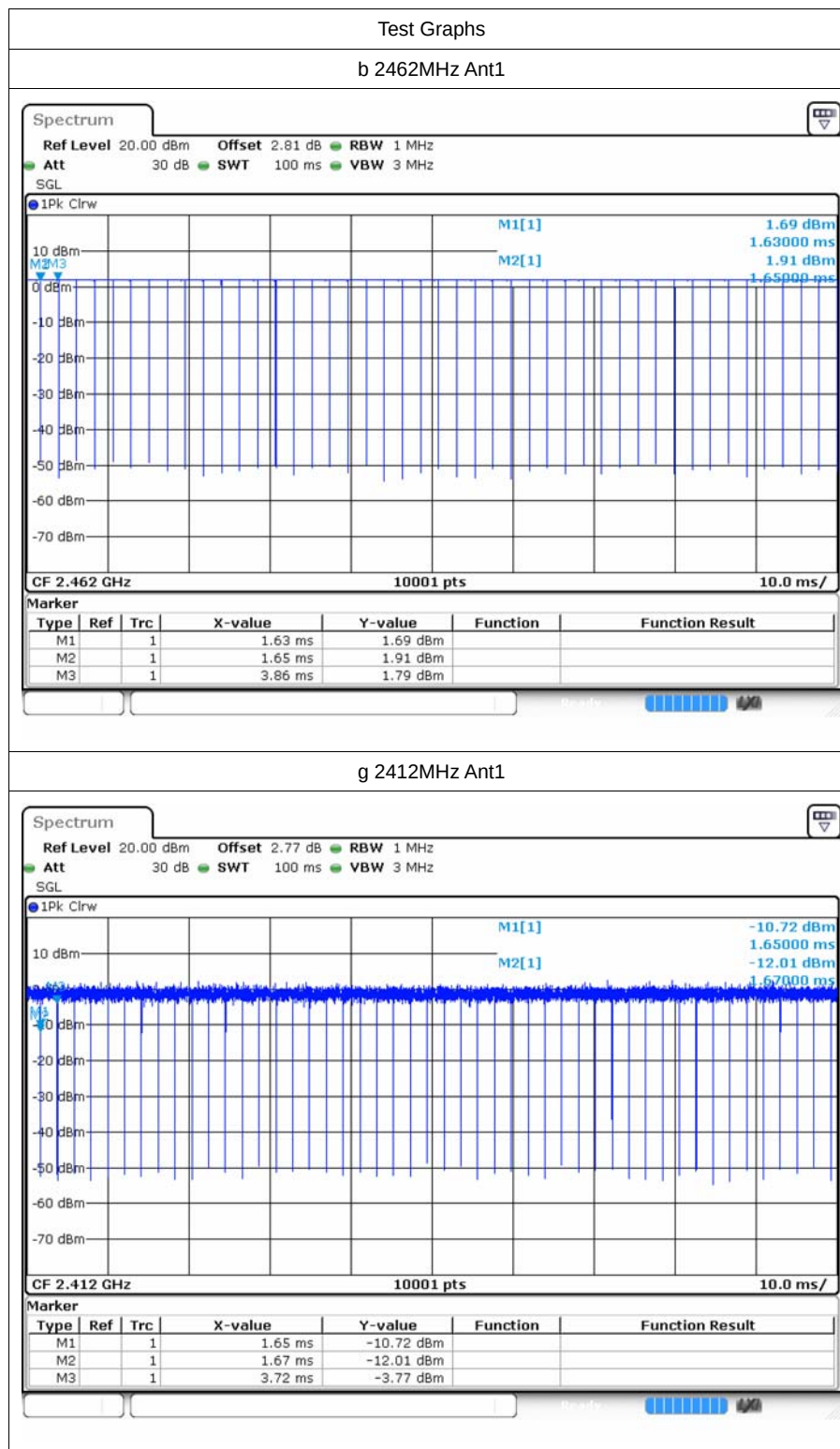
1.1 Test Result

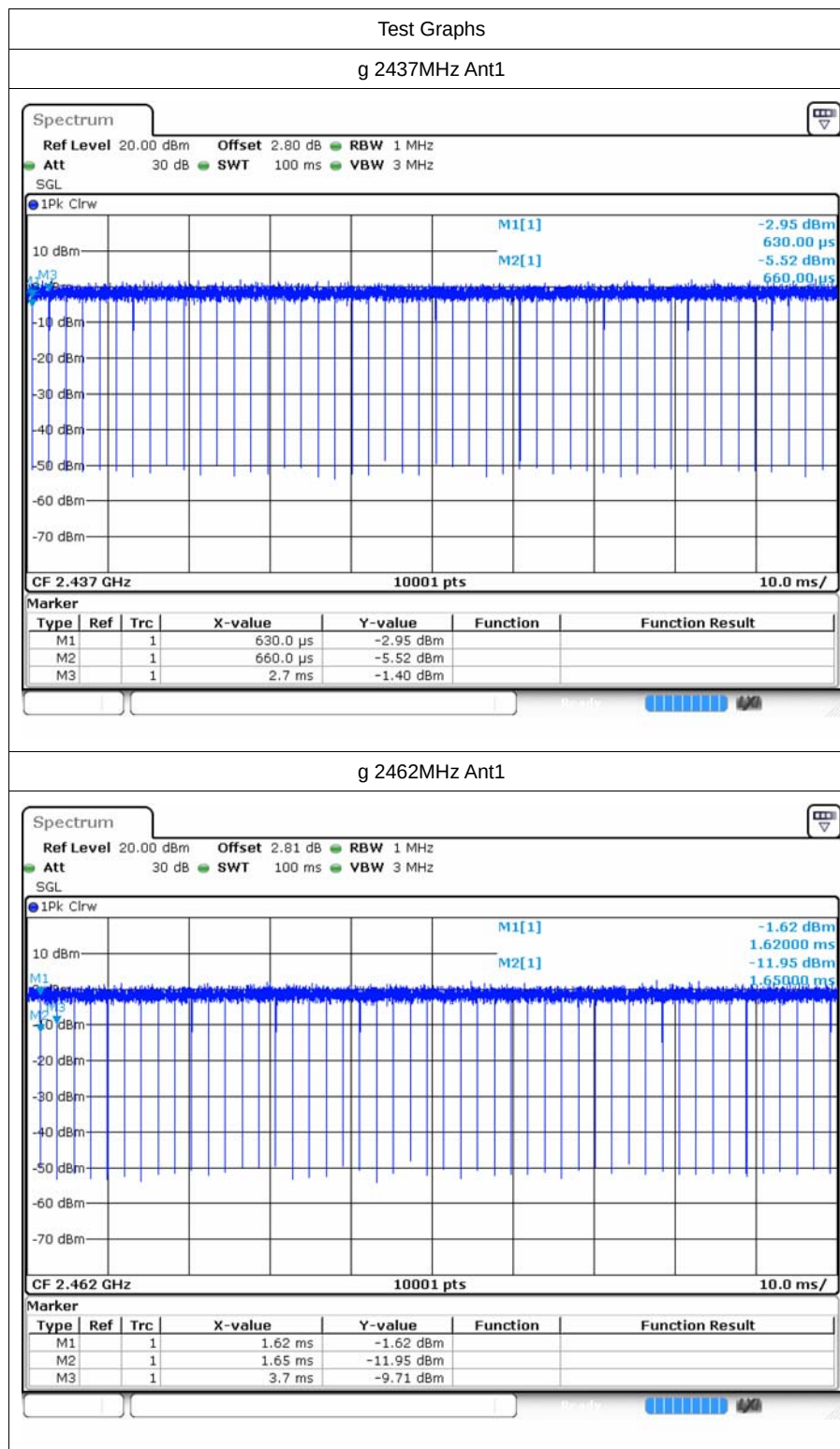
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	1/T (kHz)
b	2412	Ant1	99.33	0.45
b	2437	Ant1	99.33	0.45
b	2462	Ant1	99.33	0.45
g	2412	Ant1	99.22	0.49
g	2437	Ant1	99.19	0.49
g	2462	Ant1	99.21	0.49
n20	2412	Ant1	99.17	0.53
n20	2437	Ant1	99.17	0.52
n20	2462	Ant1	99.18	0.52



1.2 Test Graphs

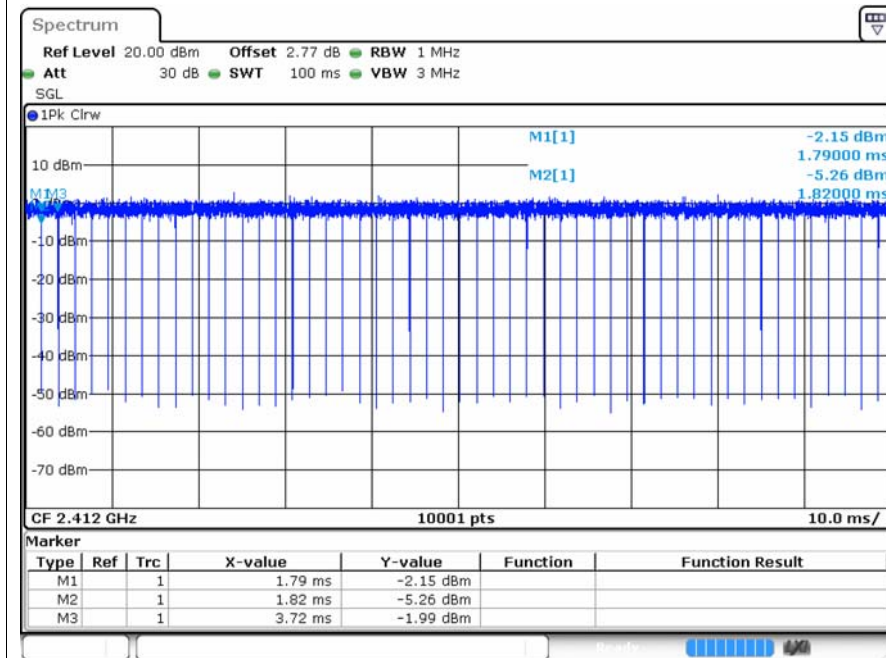




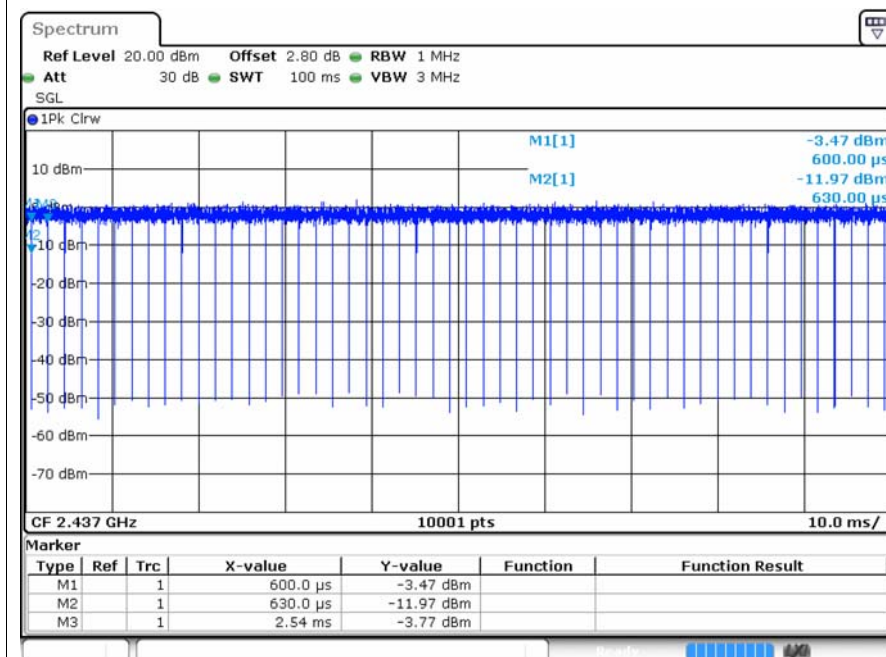


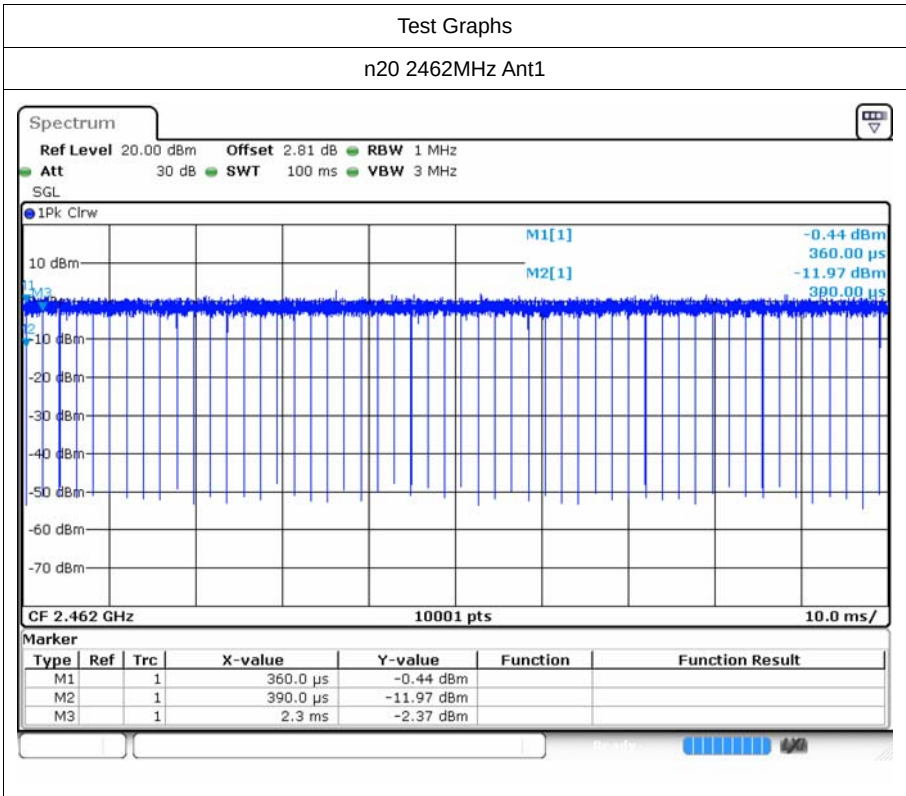
Test Graphs

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	14.93	30	Pass
b	2437	Ant1	15.05	30	Pass
b	2462	Ant1	13.8	30	Pass
g	2412	Ant1	13.68	30	Pass
g	2437	Ant1	13.27	30	Pass
g	2462	Ant1	13.63	30	Pass
n20	2412	Ant1	13.69	30	Pass
n20	2437	Ant1	13.22	30	Pass
n20	2462	Ant1	13.58	30	Pass

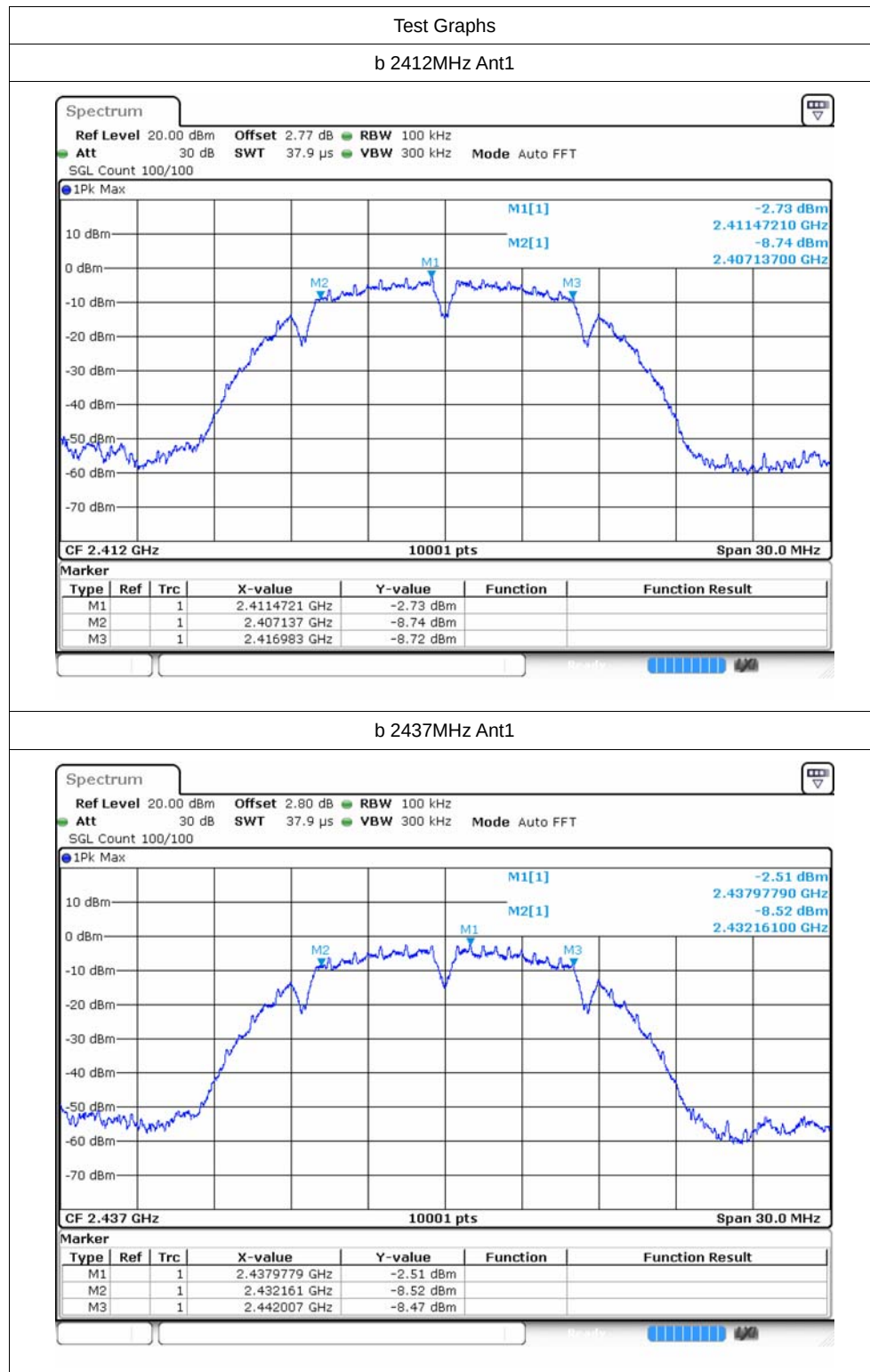


3 -6dB Bandwidth

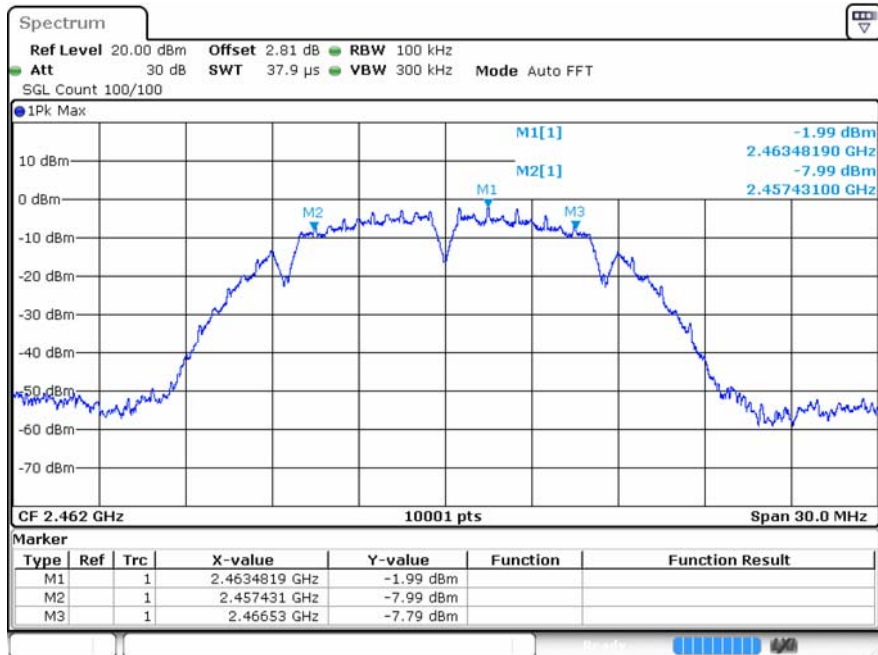
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	9.846	0.5	Pass
b	2437	Ant1	9.846	0.5	Pass
b	2462	Ant1	9.099	0.5	Pass
g	2412	Ant1	16.341	0.5	Pass
g	2437	Ant1	16.332	0.5	Pass
g	2462	Ant1	16.329	0.5	Pass
n20	2412	Ant1	15.111	0.5	Pass
n20	2437	Ant1	14.904	0.5	Pass
n20	2462	Ant1	17.178	0.5	Pass

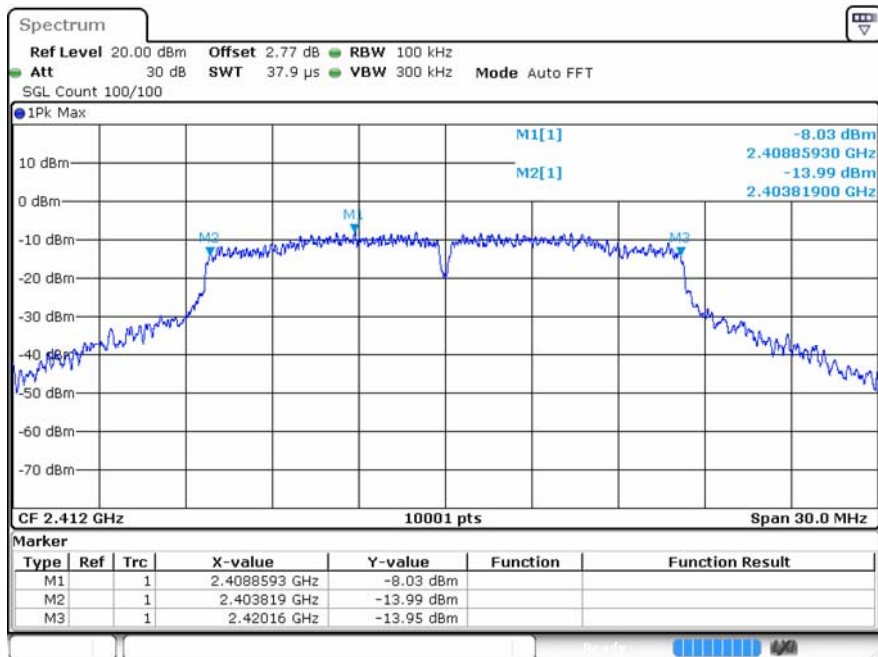
3.2 Test Graphs



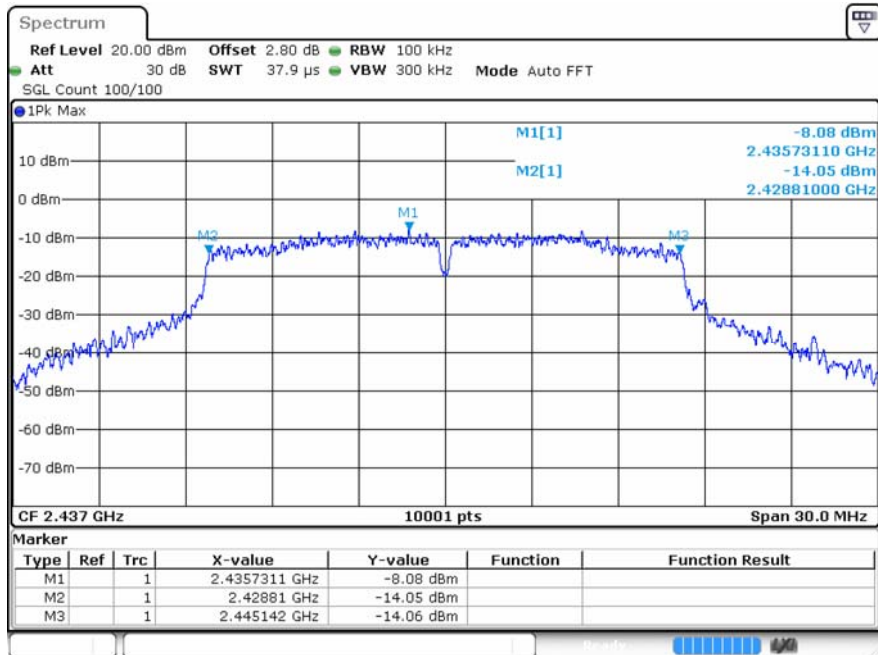
b 2462MHz Ant1



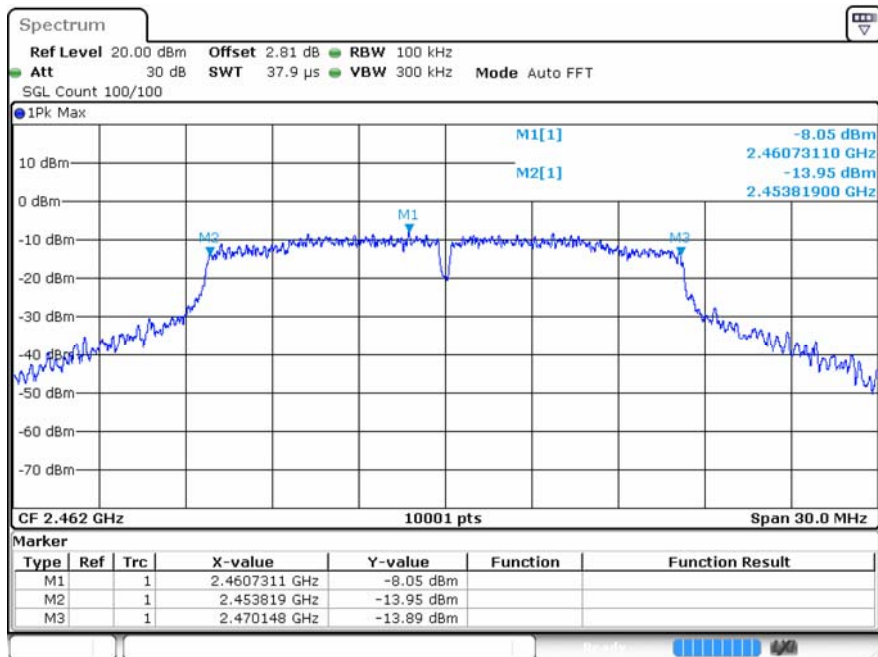
g 2412MHz Ant1

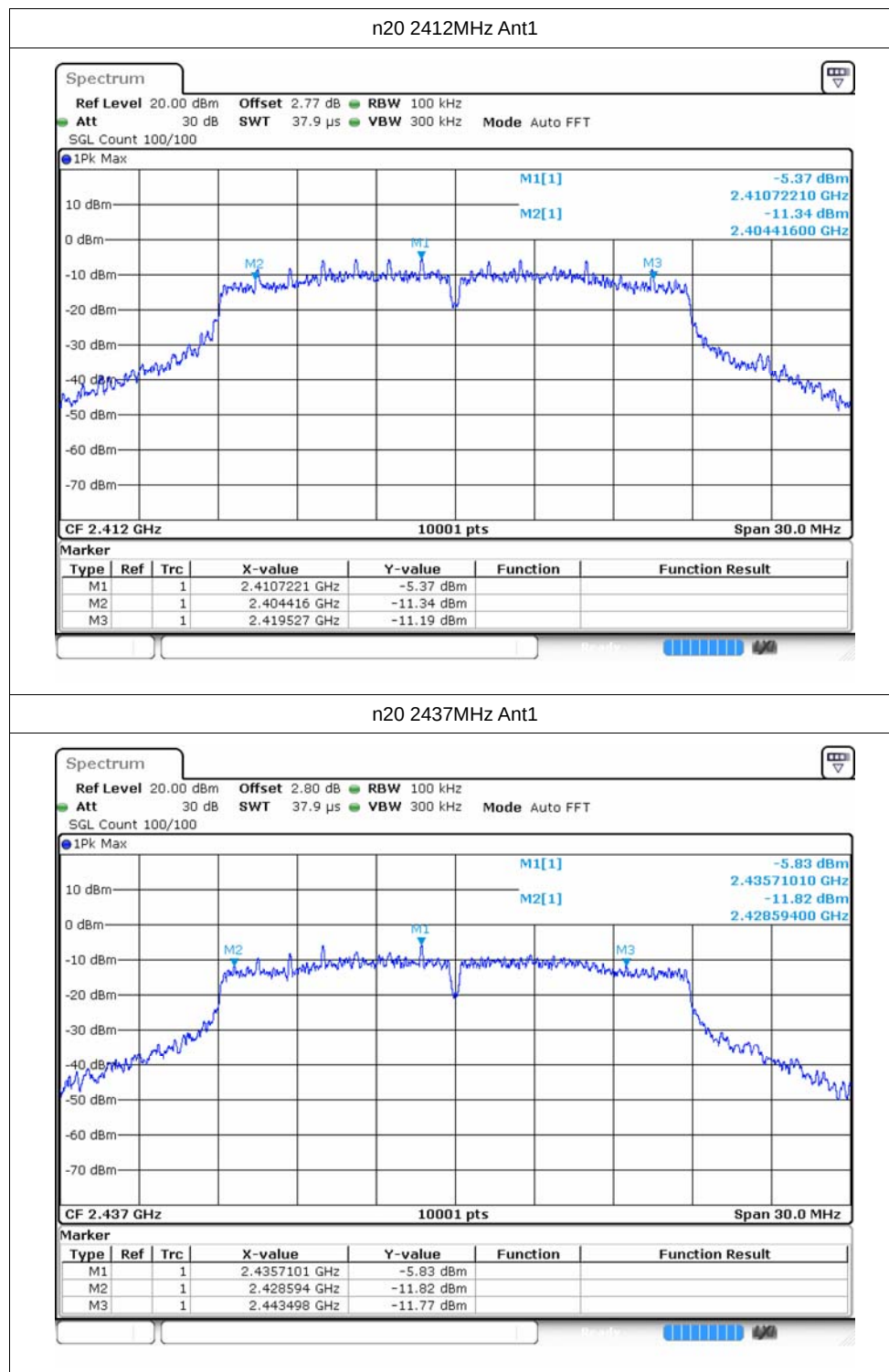


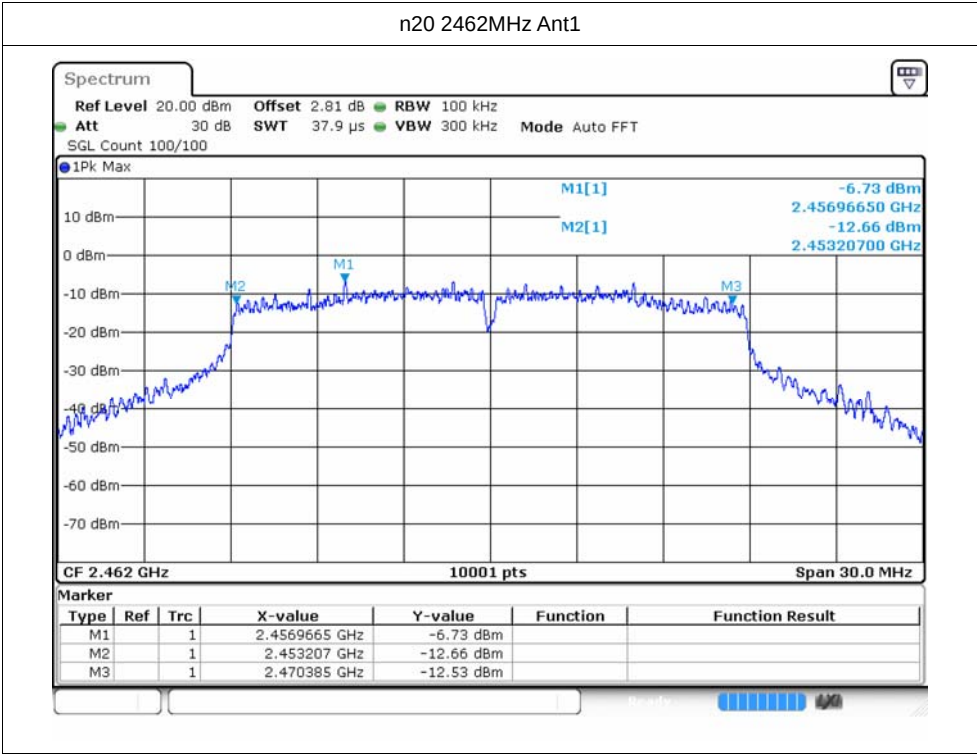
g 2437MHz Ant1



g 2462MHz Ant1





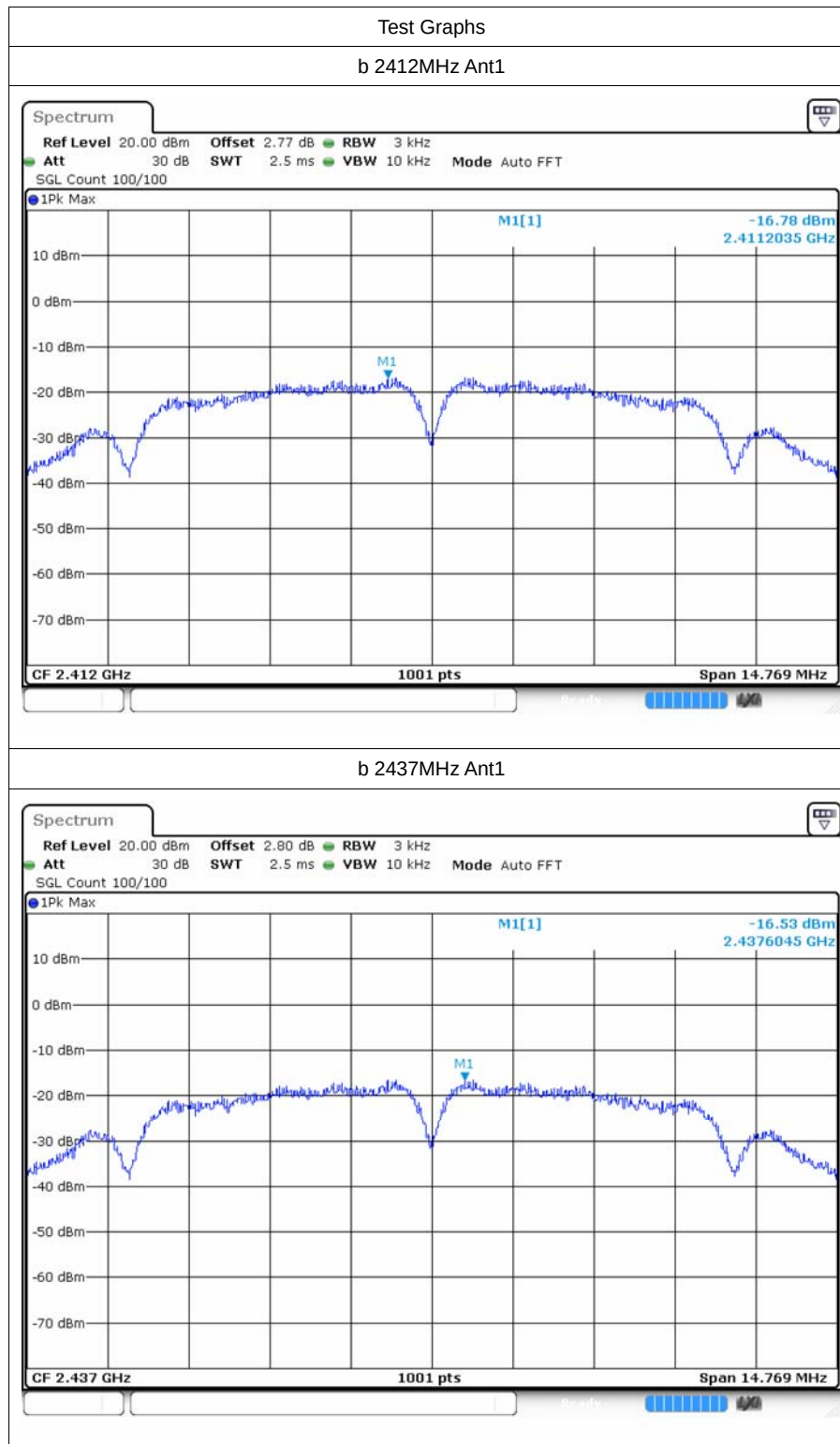


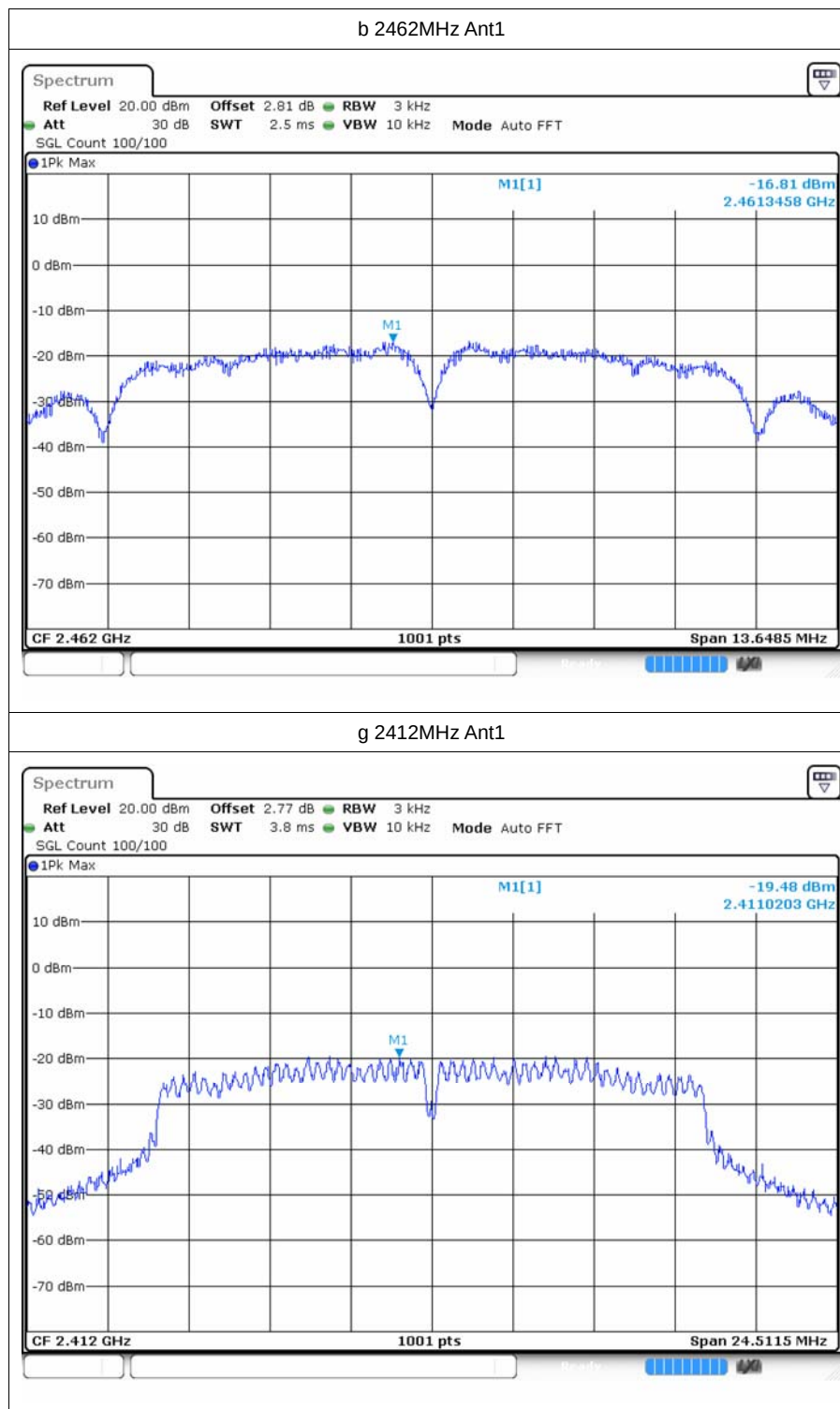
4 Maximum Power Spectral Density Level

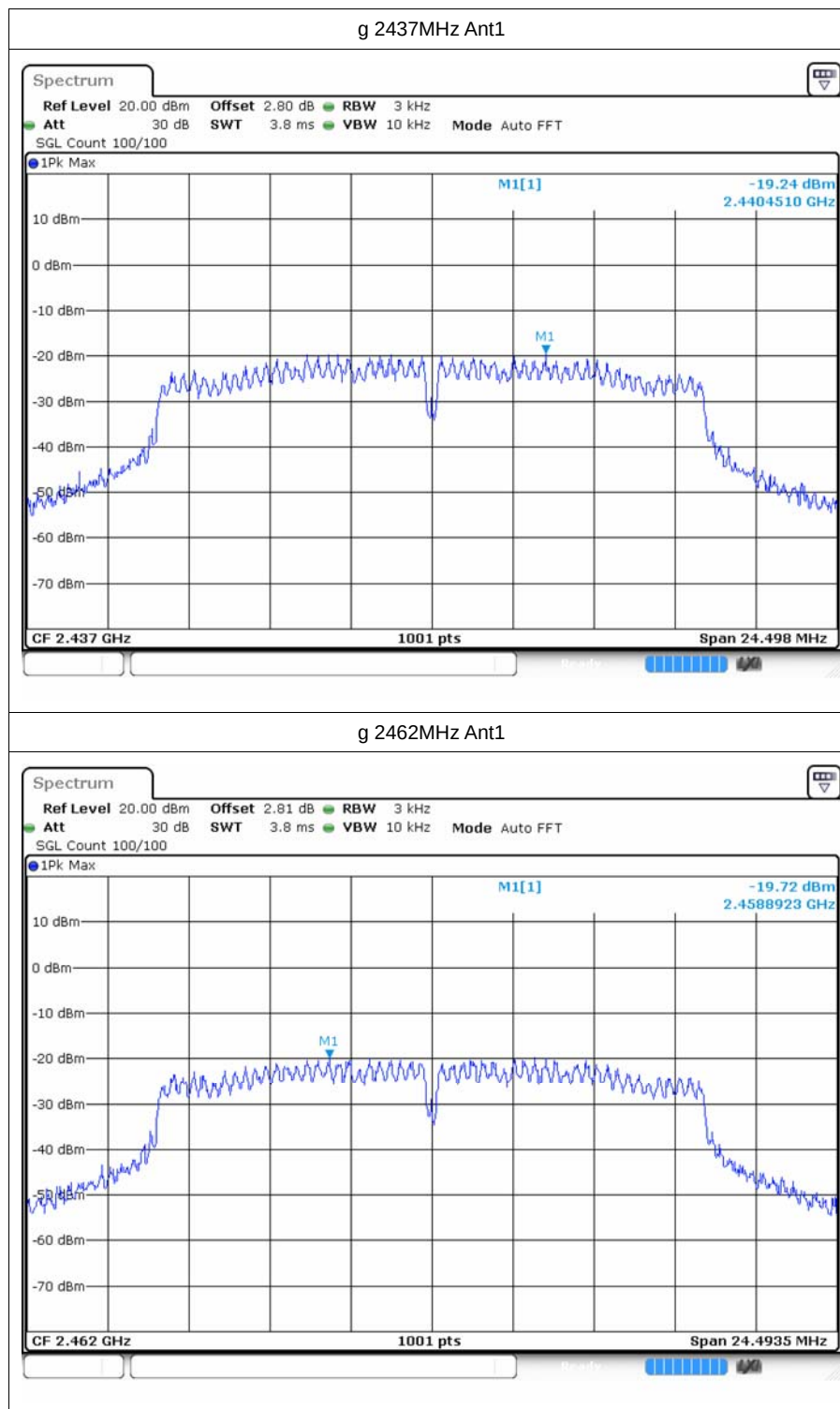
4.1 Test Result

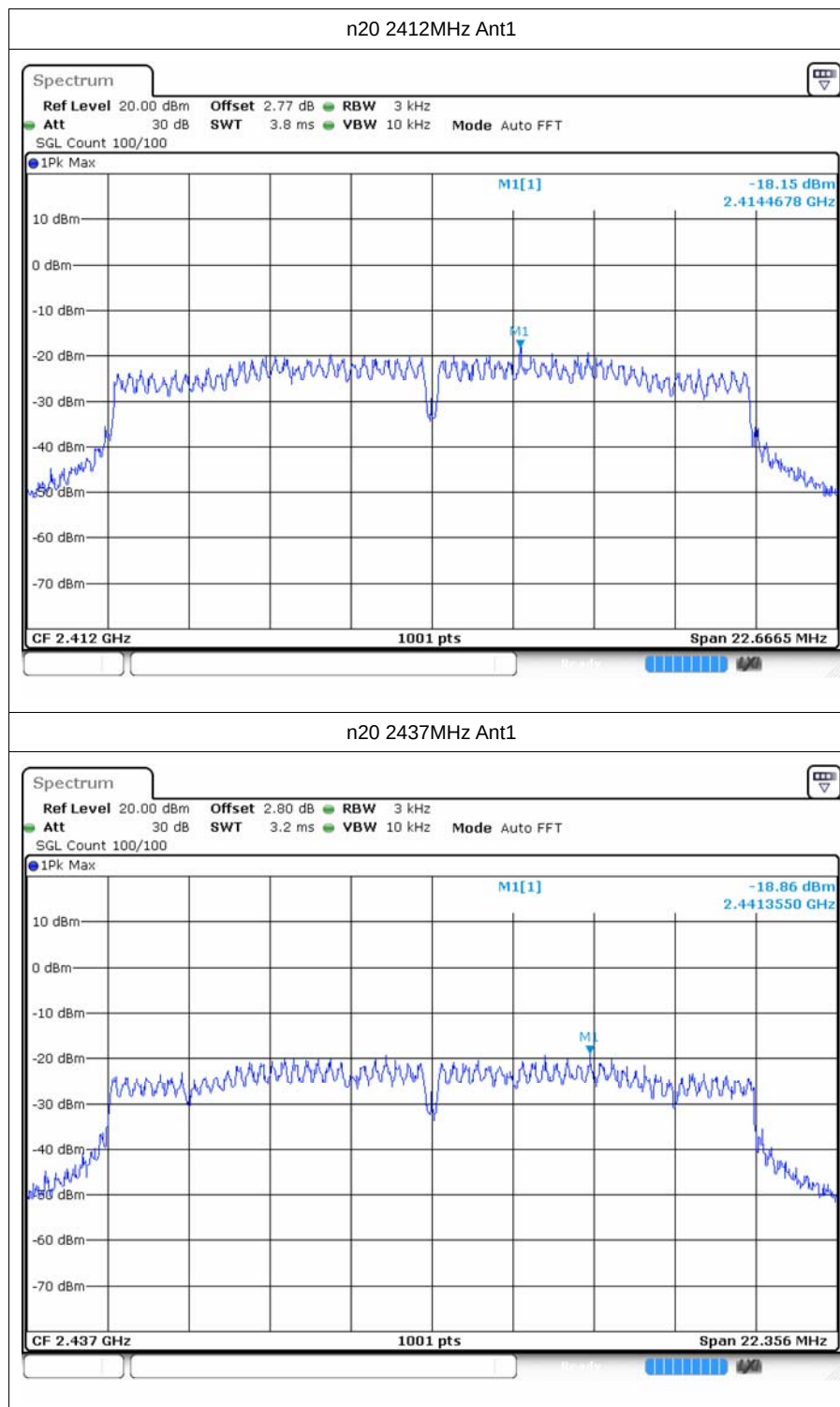
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
b	2412	Ant1	-16.78	≤ 8	Pass
b	2437	Ant1	-16.53	≤ 8	Pass
b	2462	Ant1	-16.81	≤ 8	Pass
g	2412	Ant1	-19.48	≤ 8	Pass
g	2437	Ant1	-19.24	≤ 8	Pass
g	2462	Ant1	-19.72	≤ 8	Pass
n20	2412	Ant1	-18.15	≤ 8	Pass
n20	2437	Ant1	-18.86	≤ 8	Pass
n20	2462	Ant1	-19.47	≤ 8	Pass

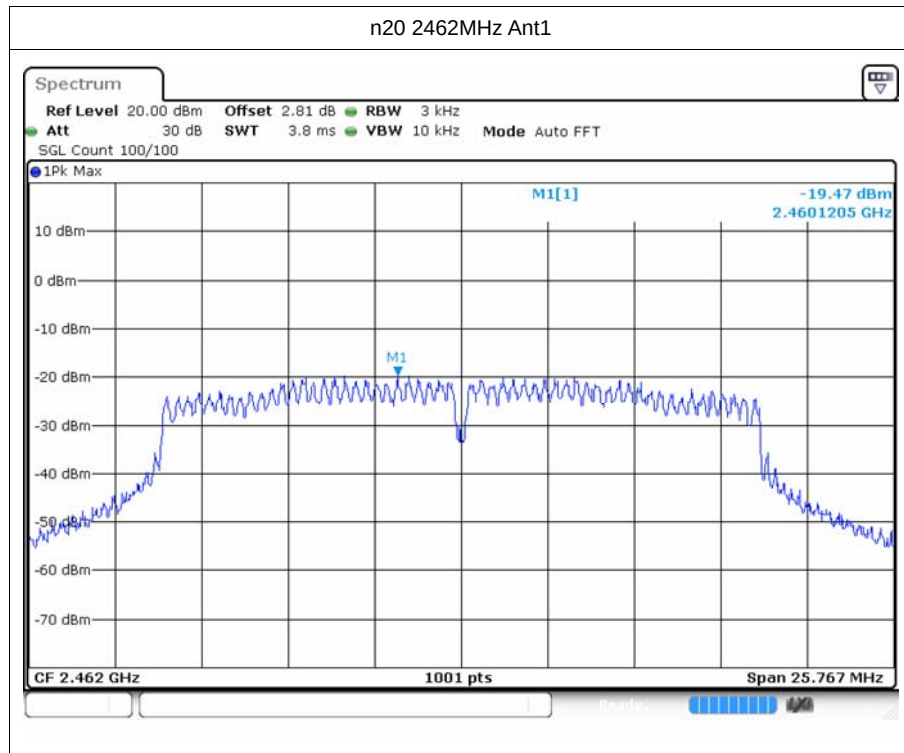
4.2 Test Graphs











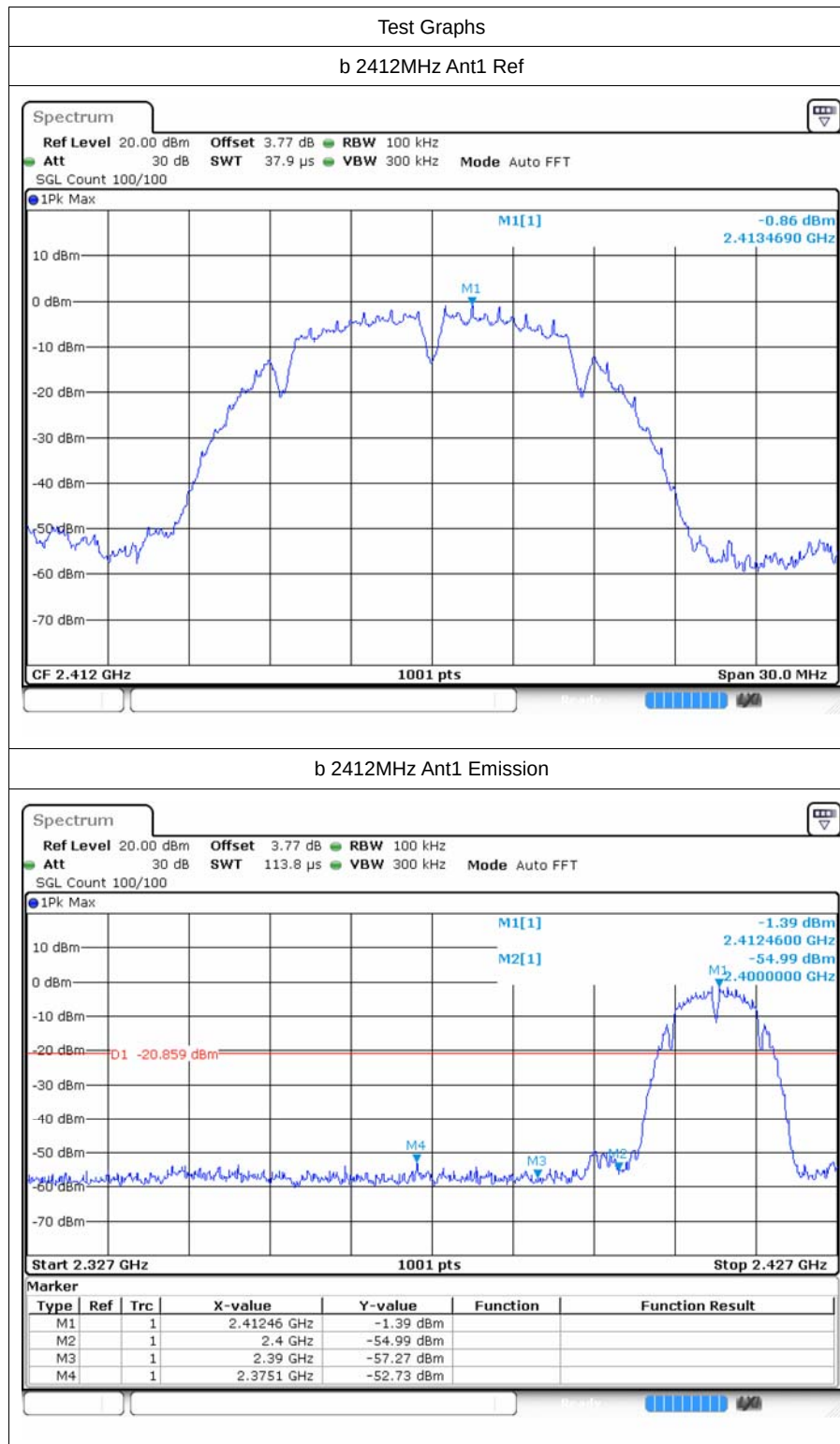


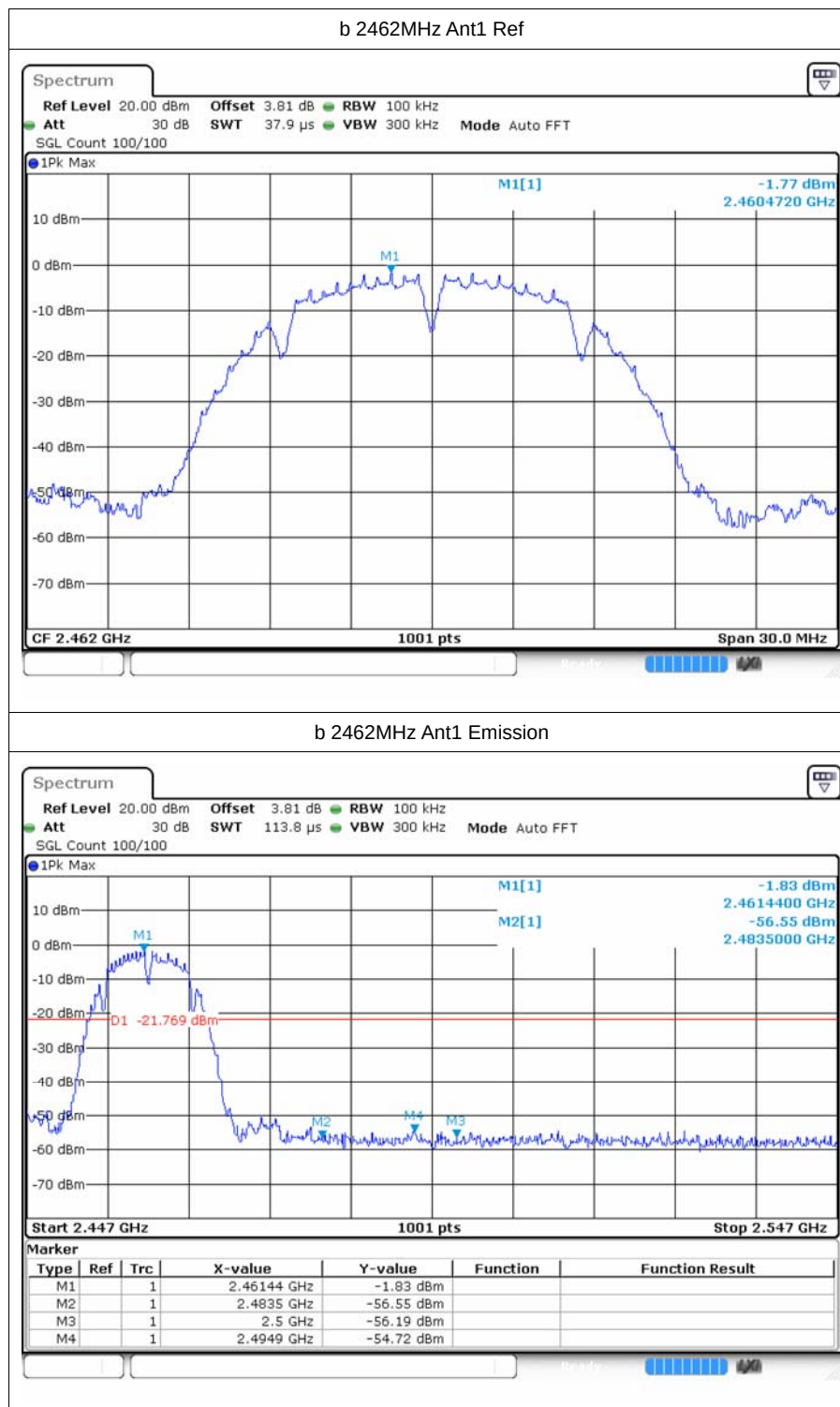
5 Band Edge

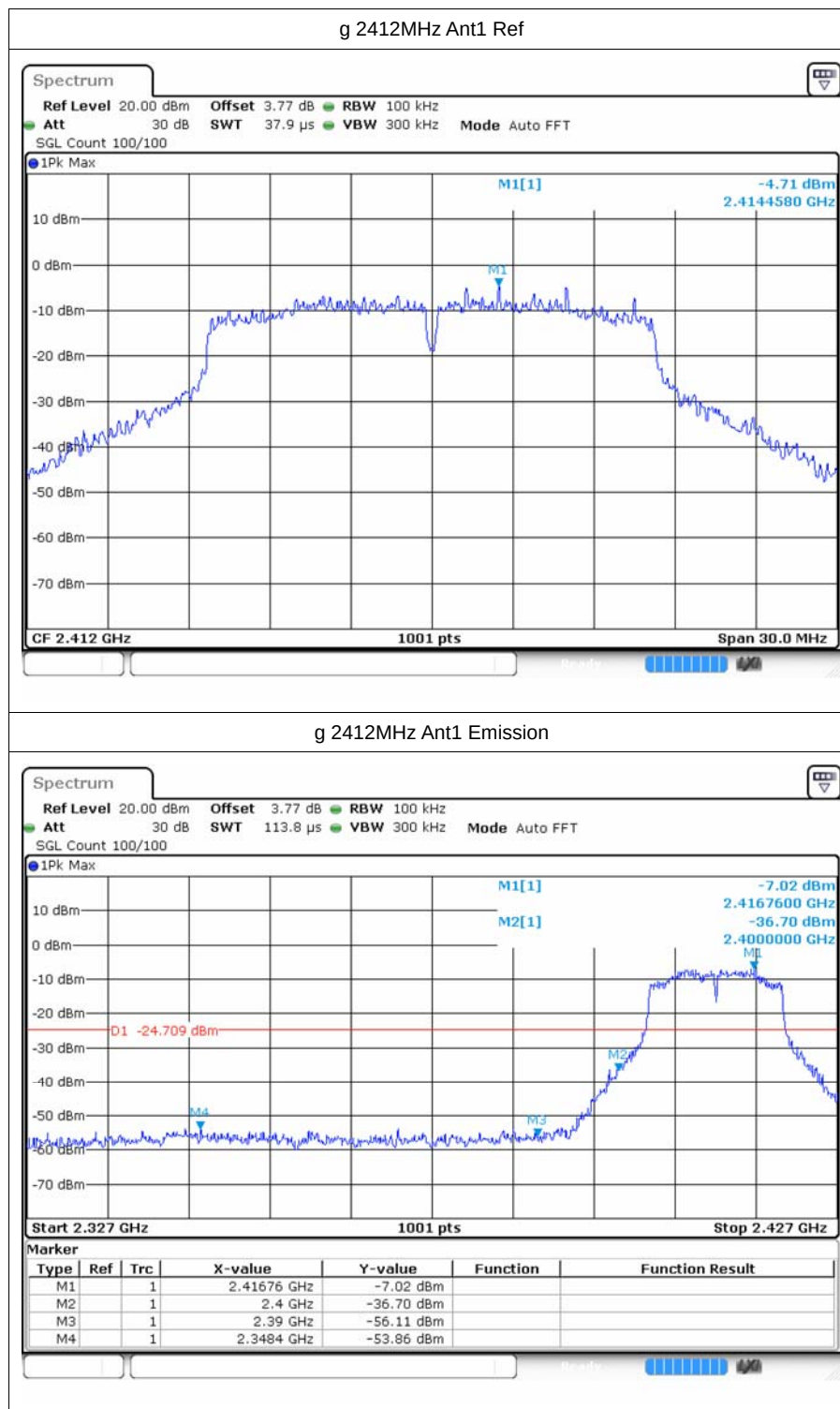
5.1 Test Result

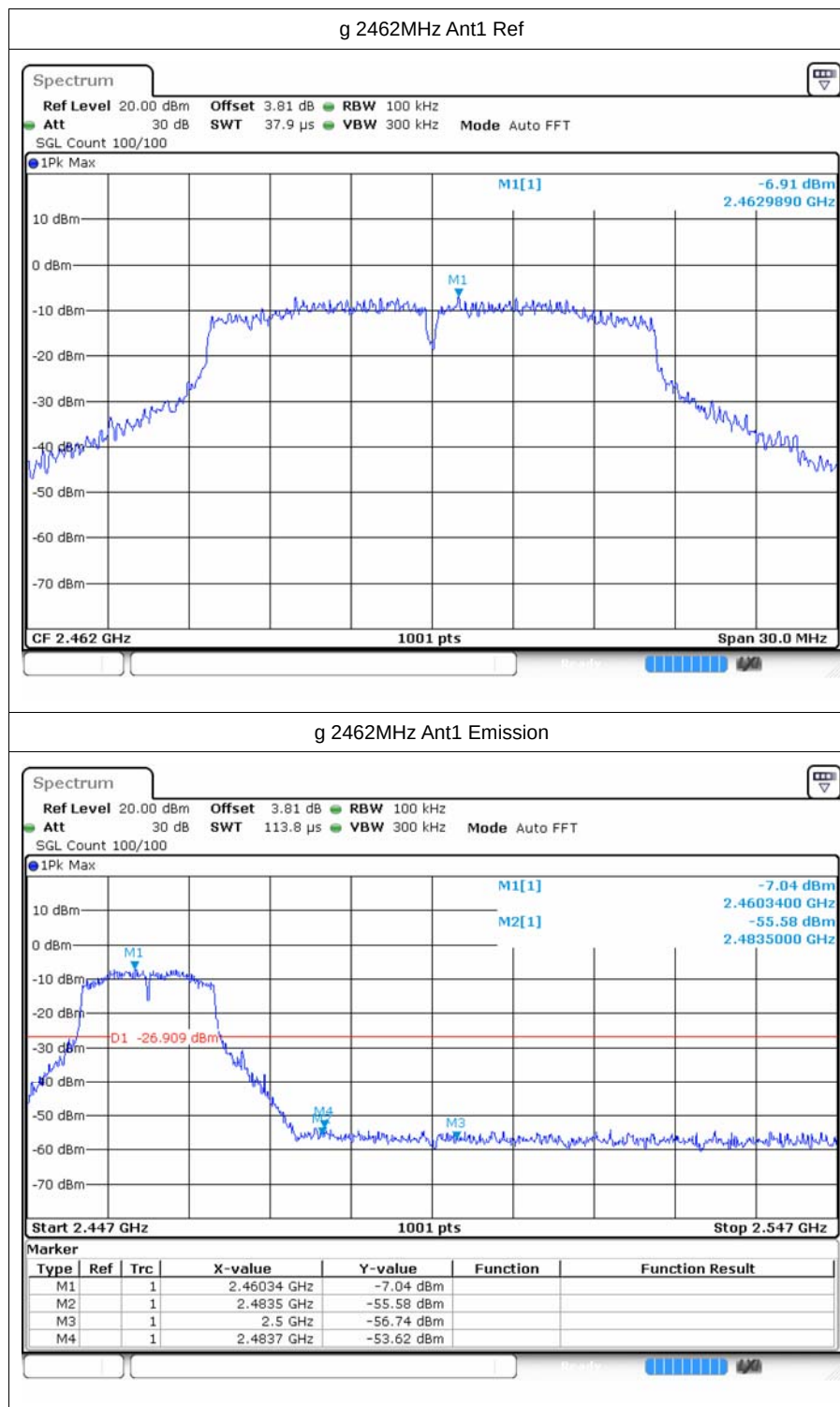
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-51.87	-20	Pass
b	2462	Ant1	-52.94	-20	Pass
g	2412	Ant1	-49.14	-20	Pass
g	2462	Ant1	-46.71	-20	Pass
n20	2412	Ant1	-46.82	-20	Pass
n20	2462	Ant1	-46.45	-20	Pass

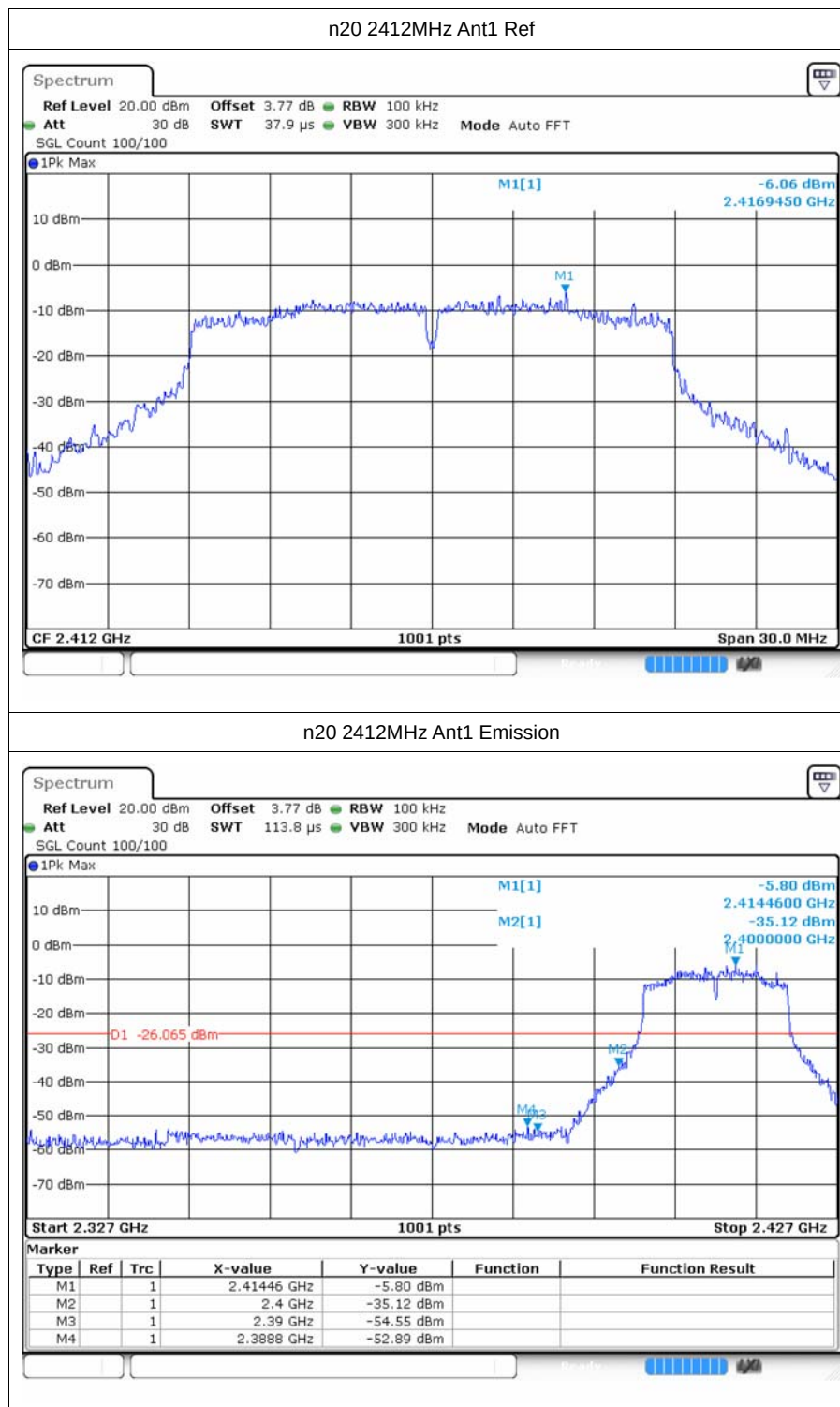
5.2 Test Graphs

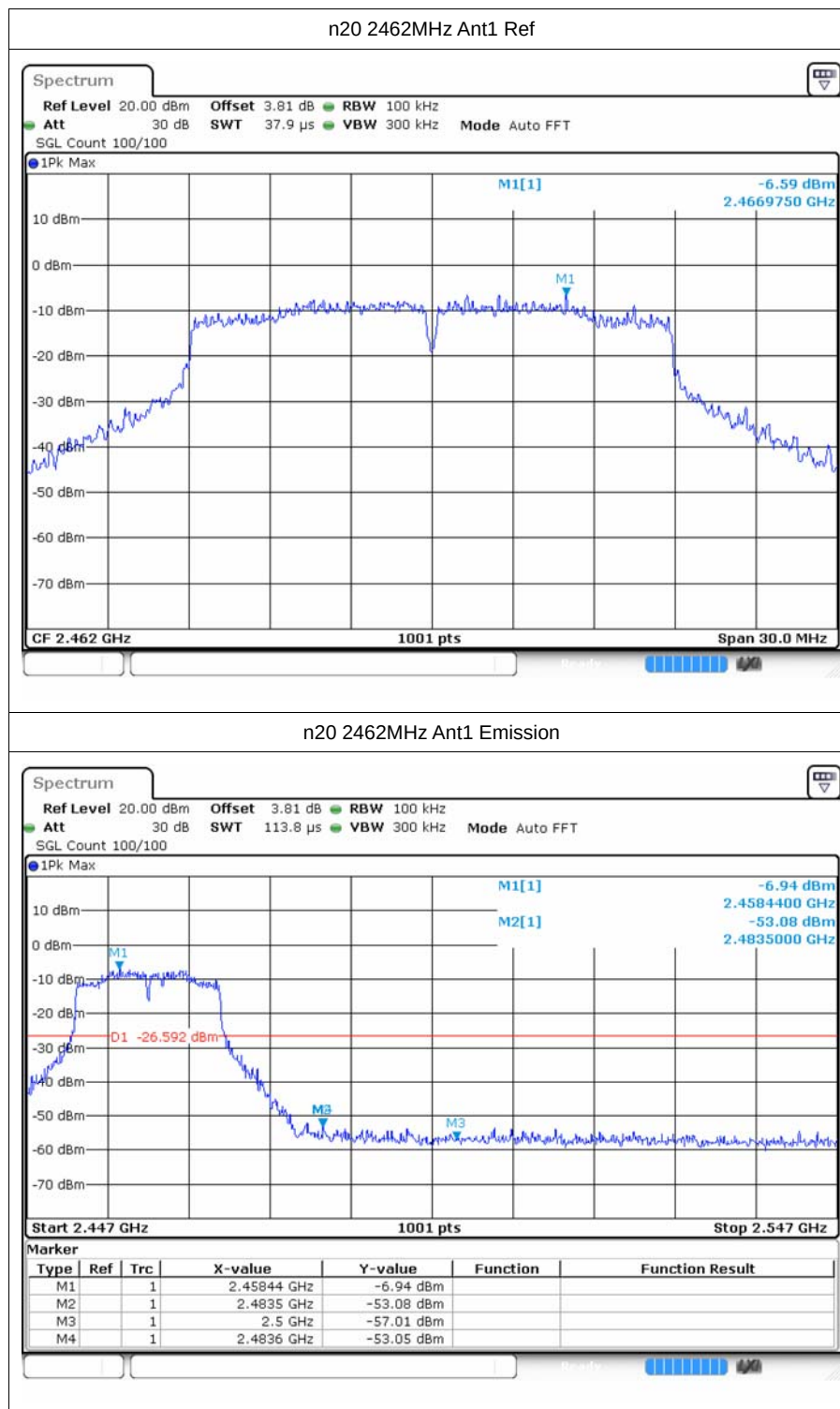












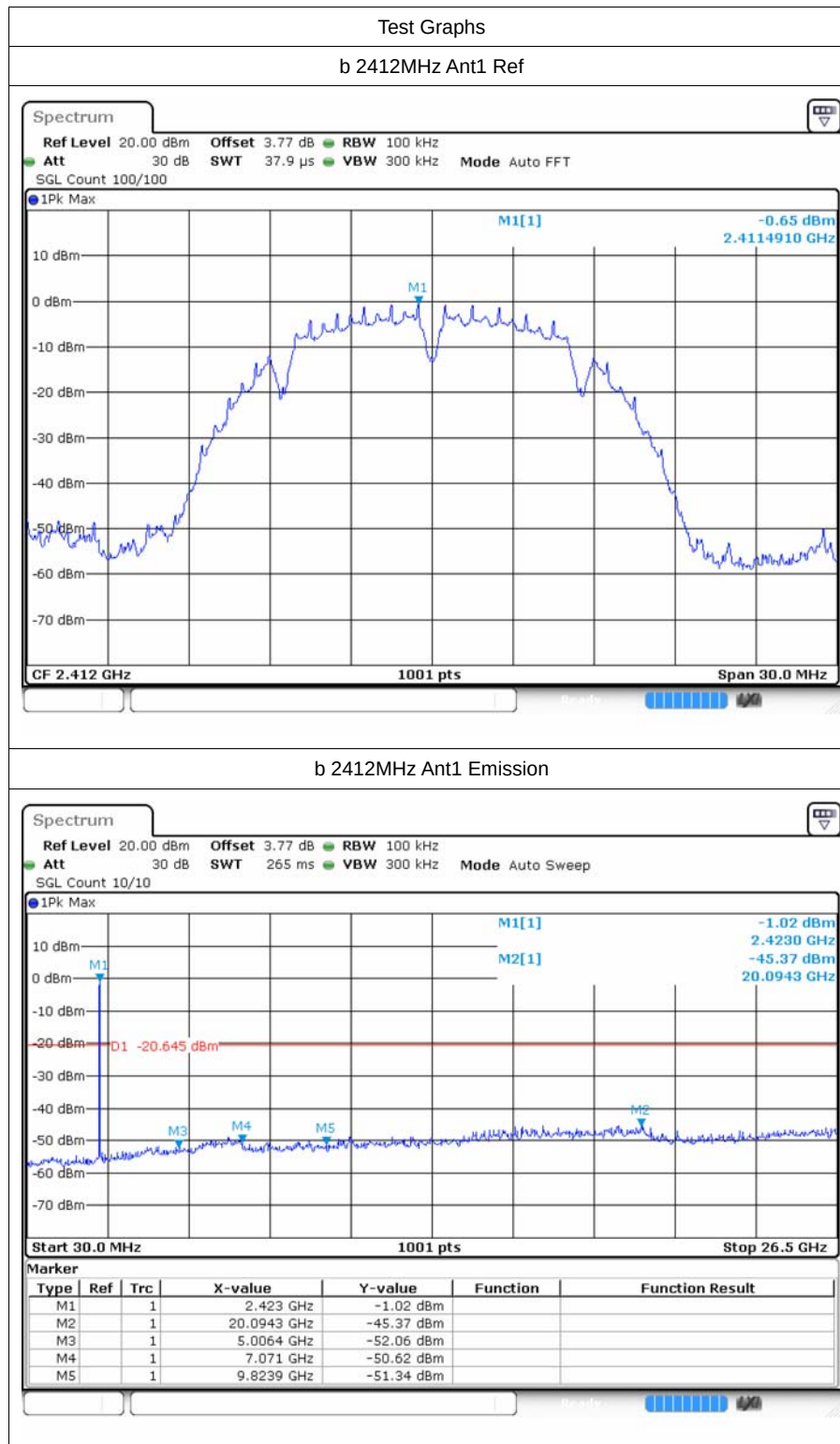


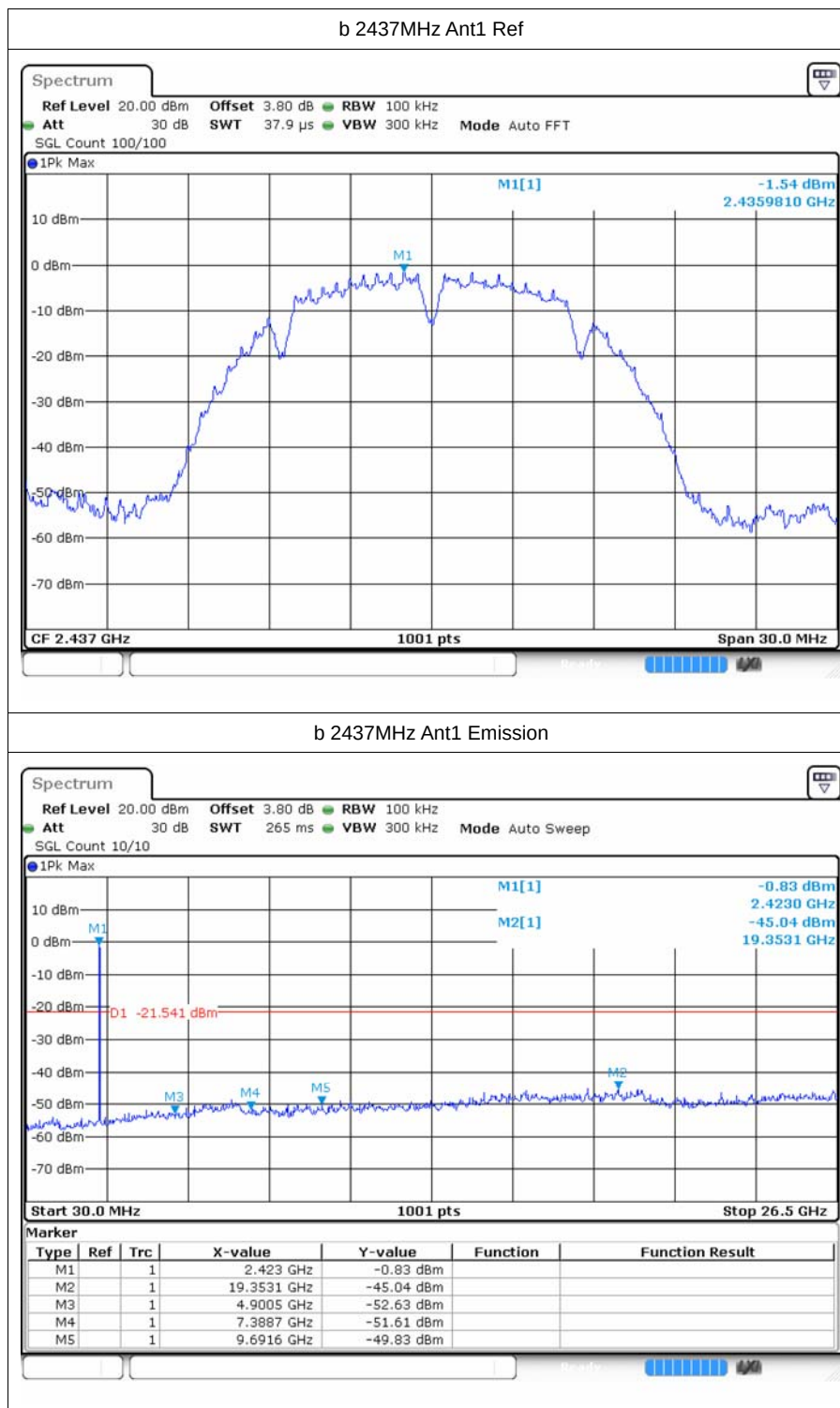
6 Conducted RF Spurious Emission

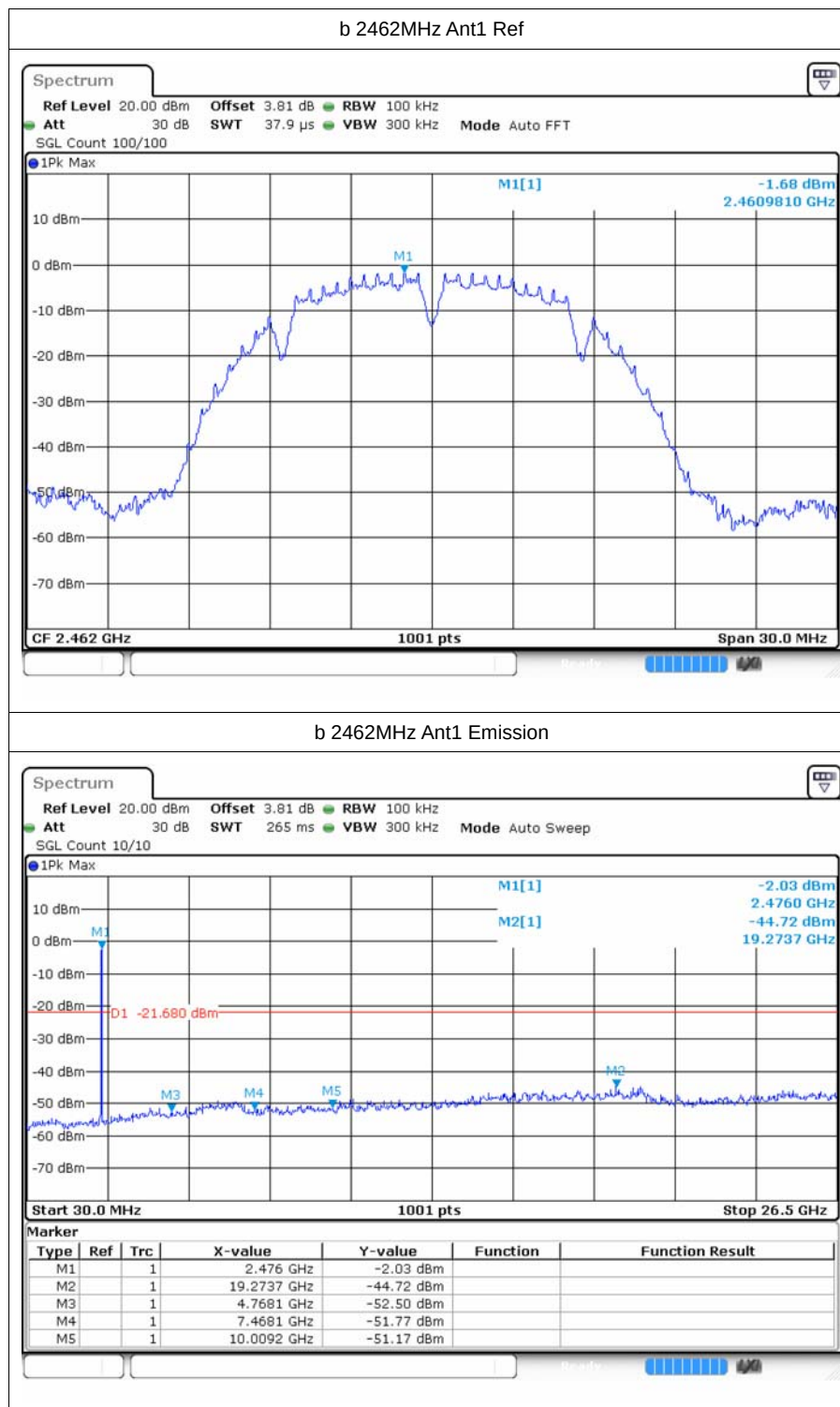
6.1 Test Result

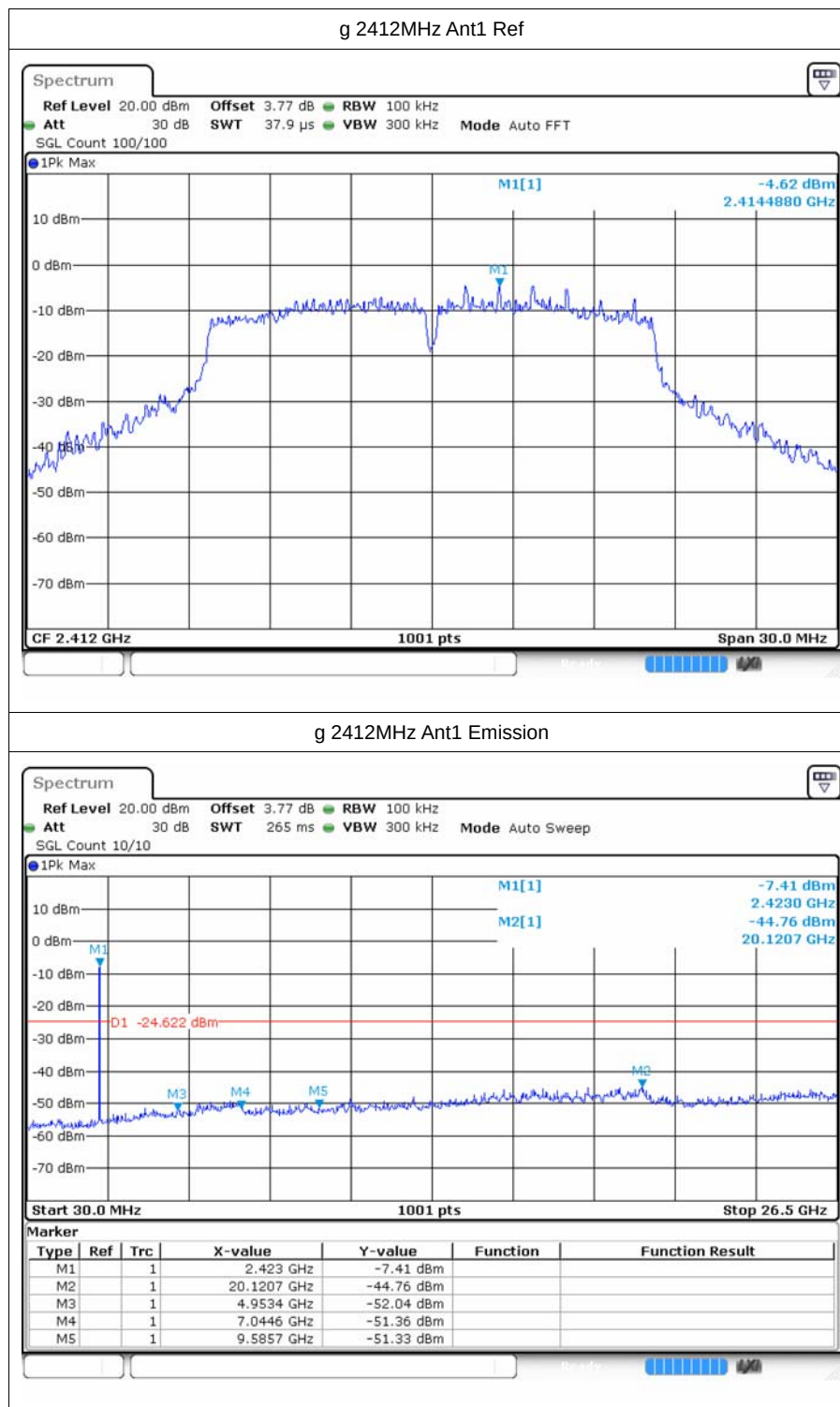
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-44.71	-20	Pass
b	2437	Ant1	-43.5	-20	Pass
b	2462	Ant1	-43.03	-20	Pass
g	2412	Ant1	-40.13	-20	Pass
g	2437	Ant1	-41.01	-20	Pass
g	2462	Ant1	-39.14	-20	Pass
n20	2412	Ant1	-38.08	-20	Pass
n20	2437	Ant1	-39.03	-20	Pass
n20	2462	Ant1	-37.62	-20	Pass

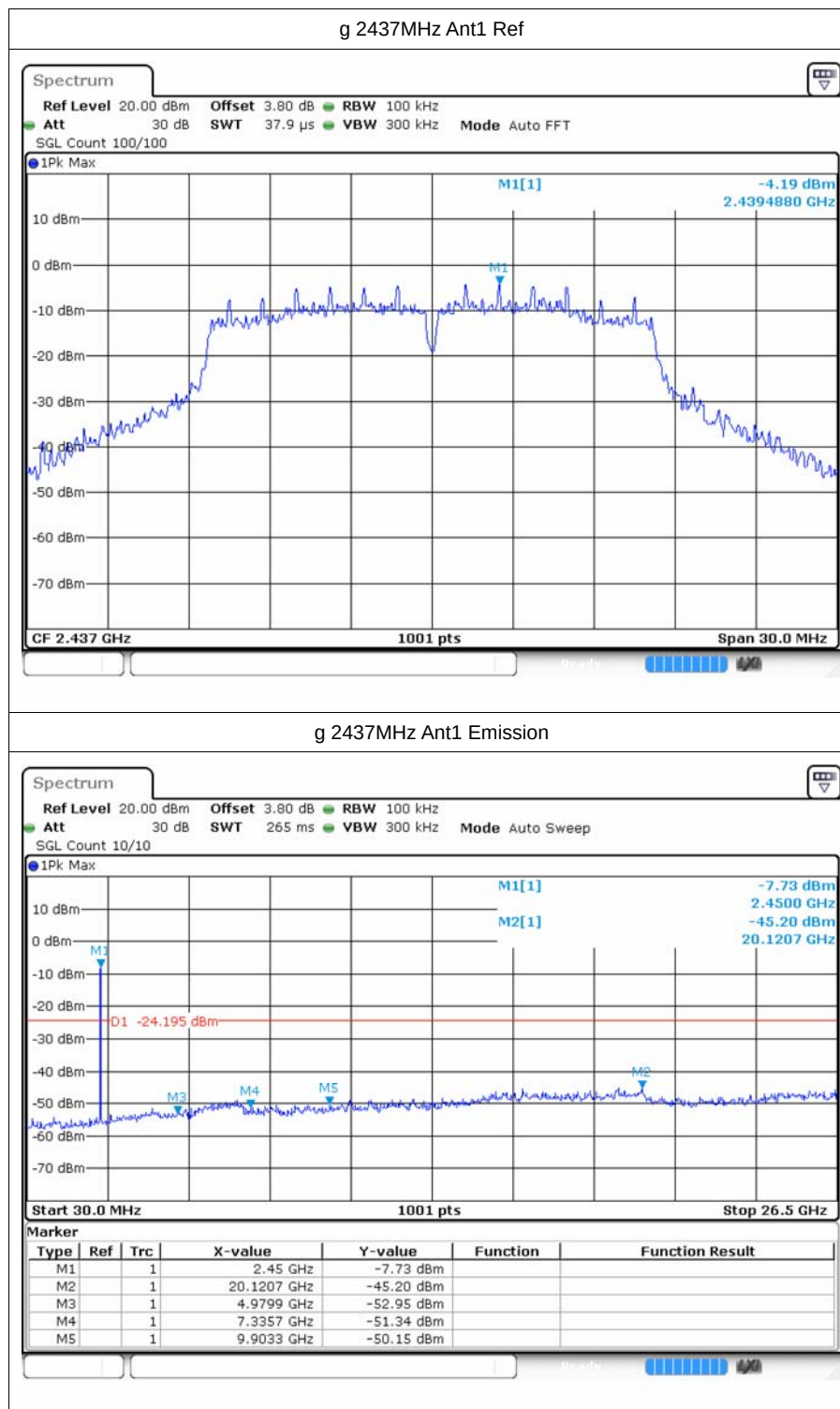
6.2 Test Graphs

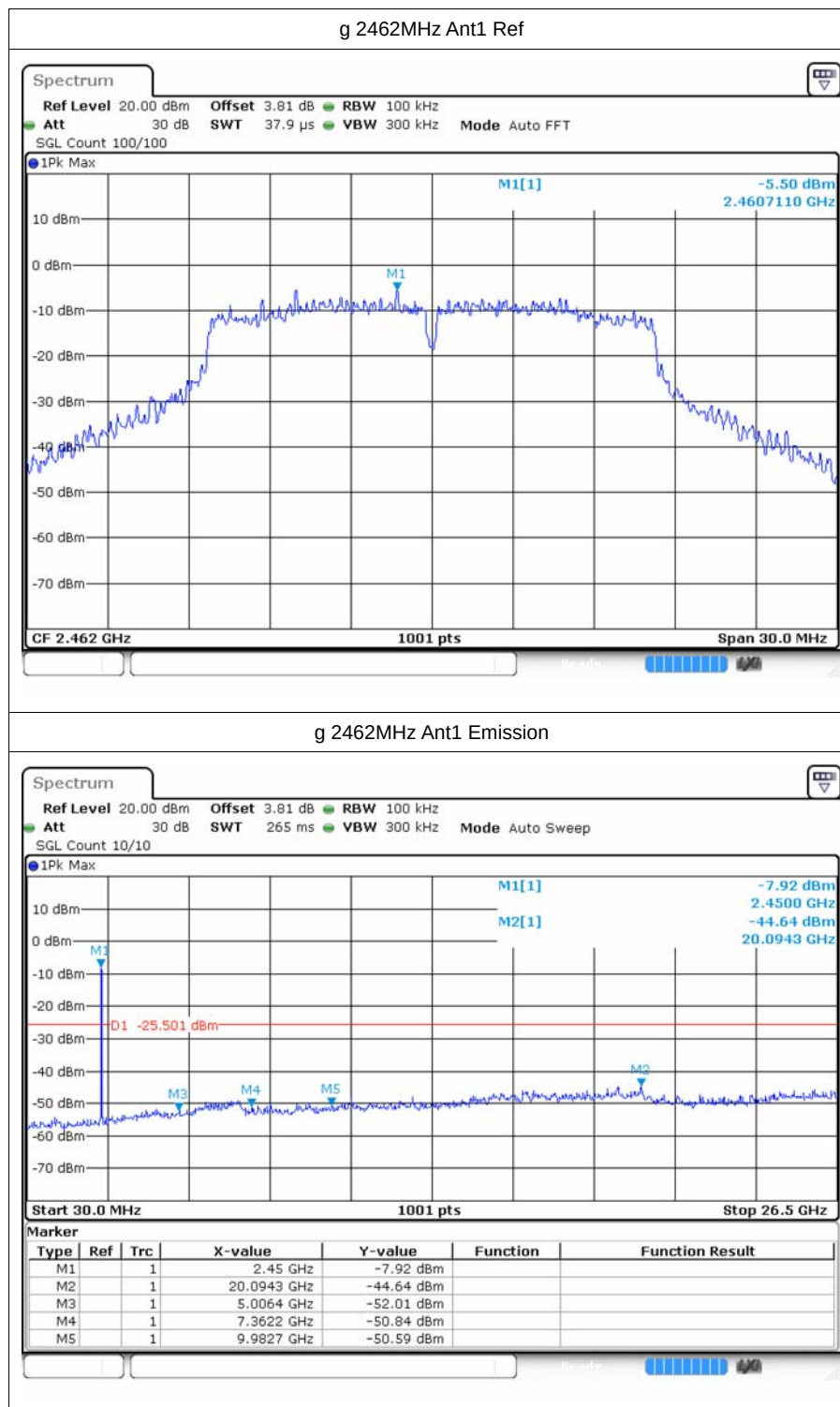


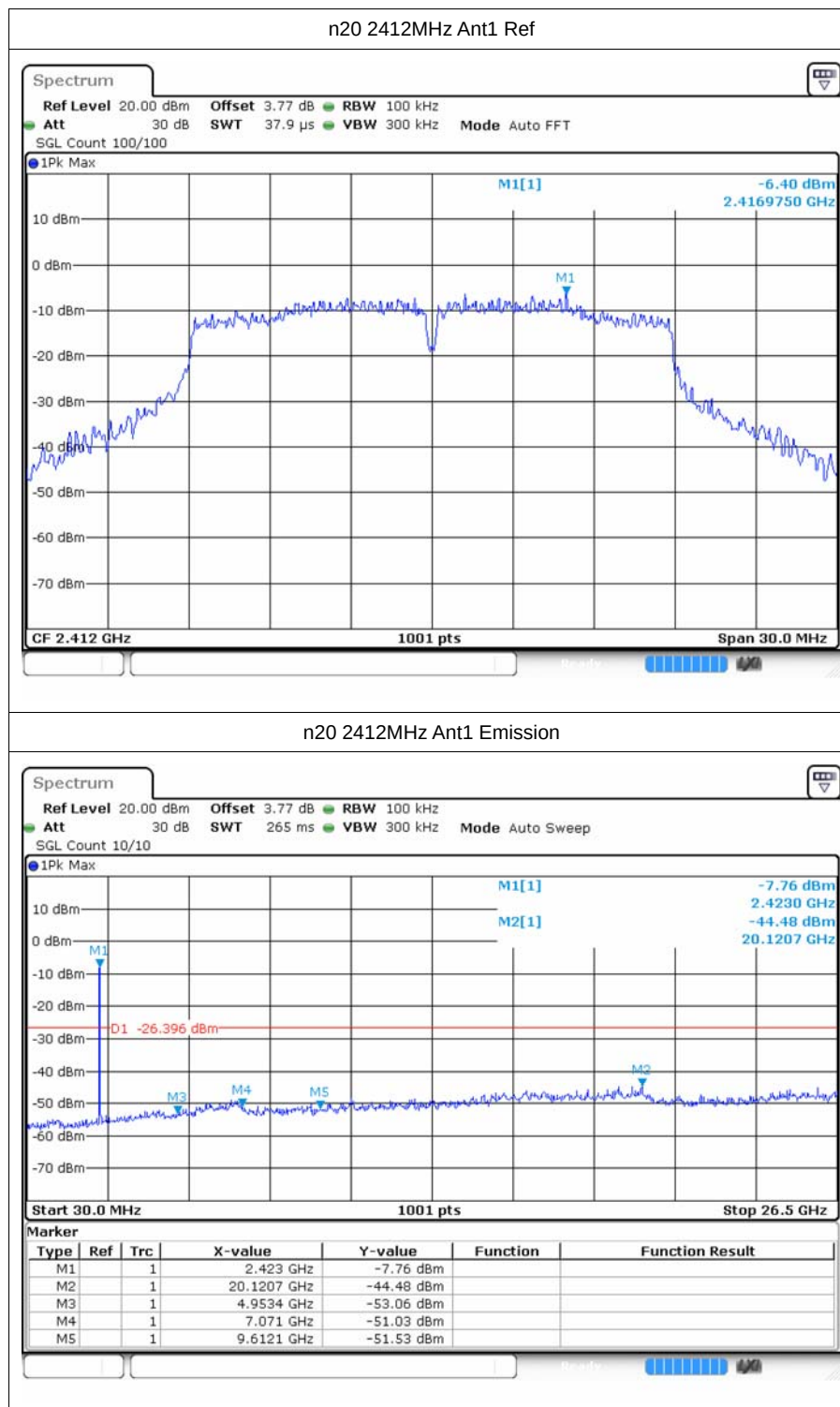


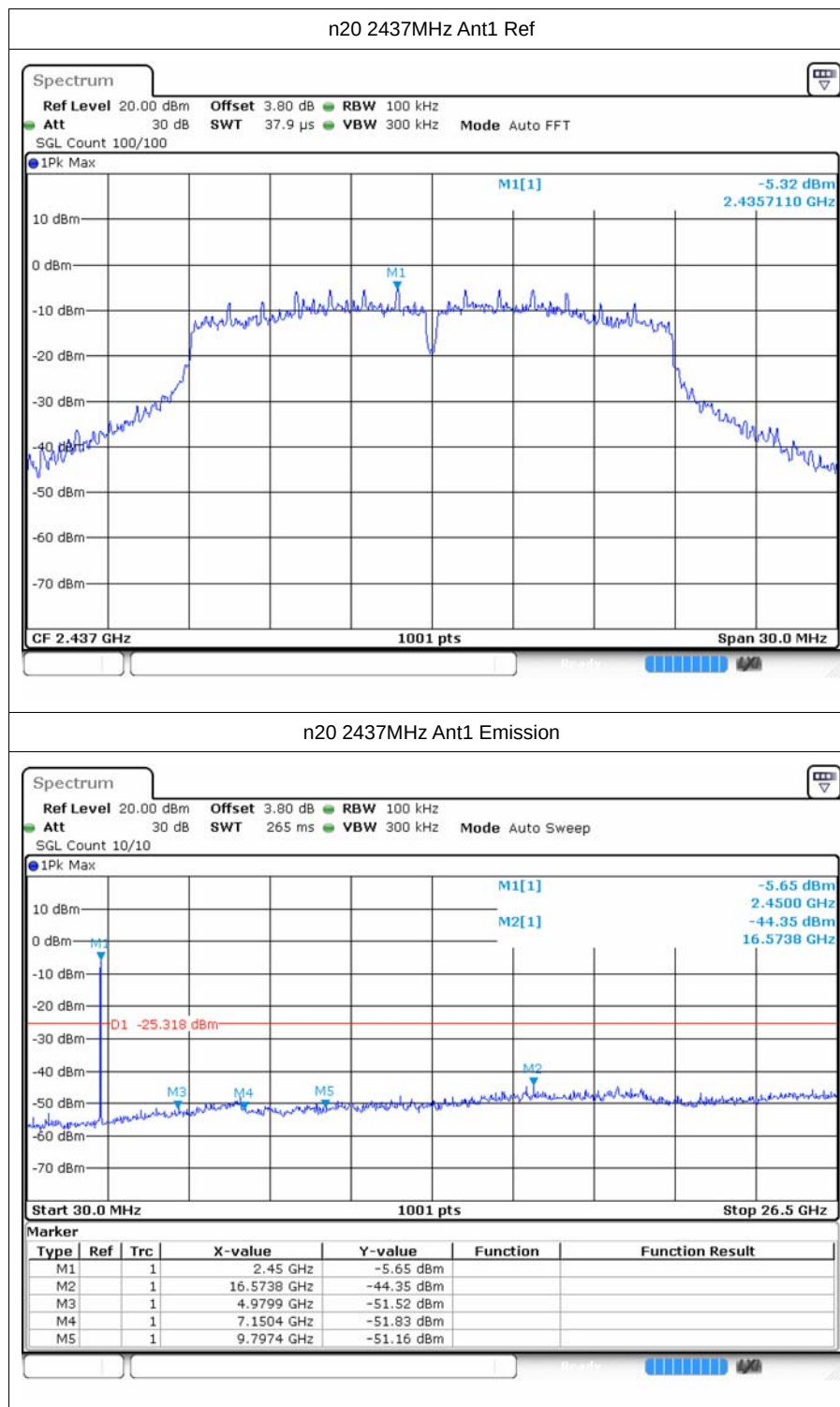


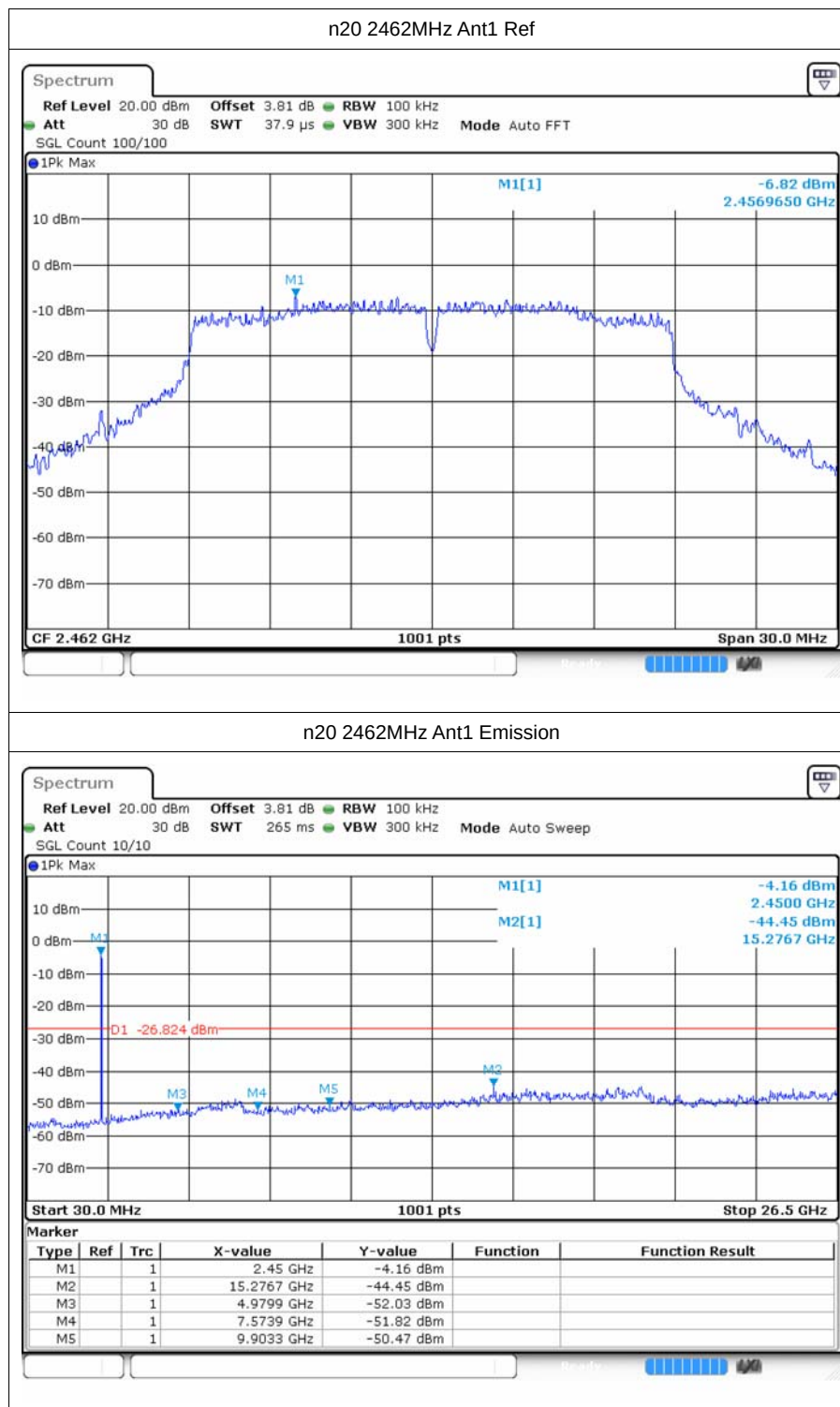














7 Restrict Band

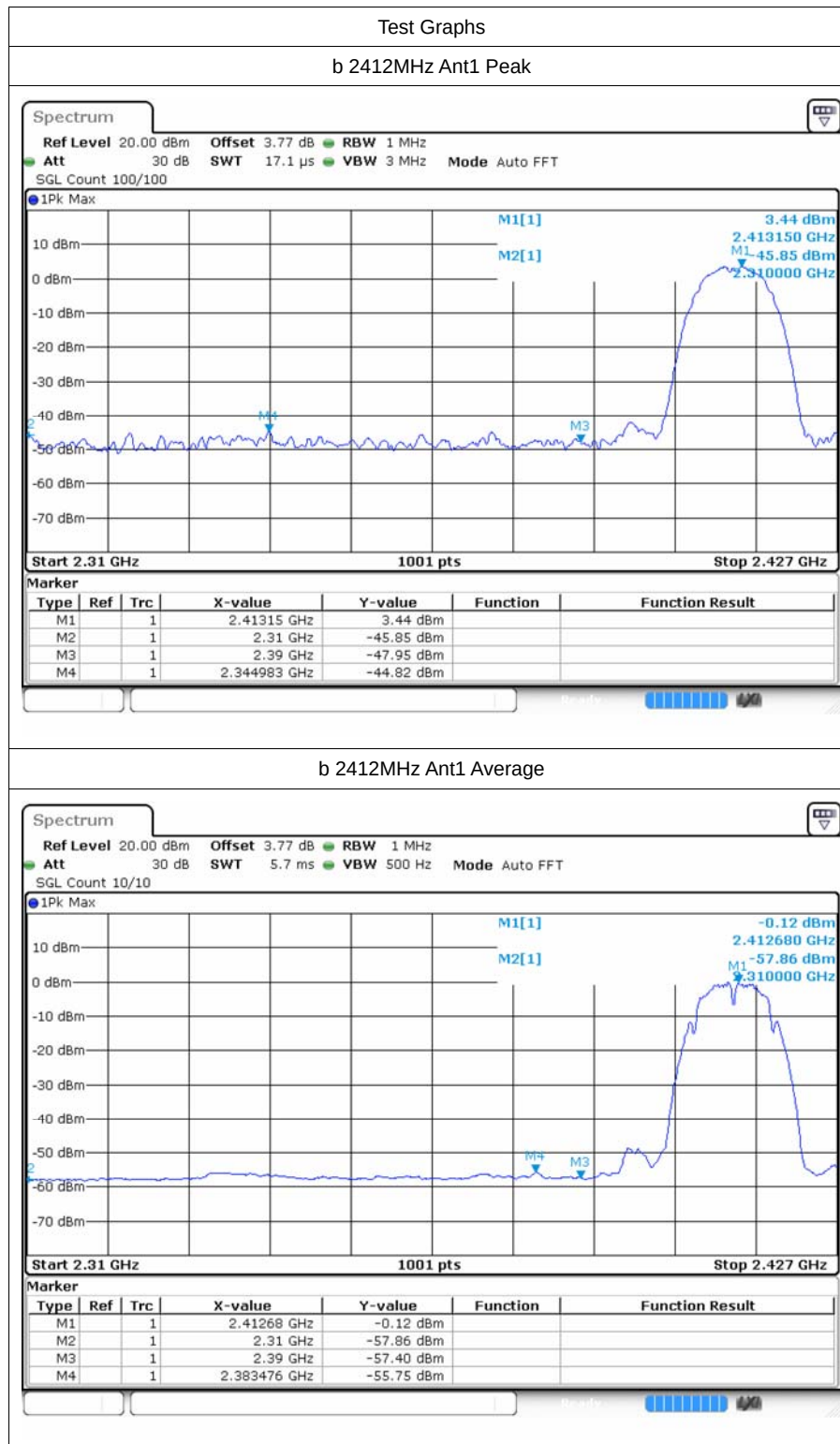
7.1 Test Result

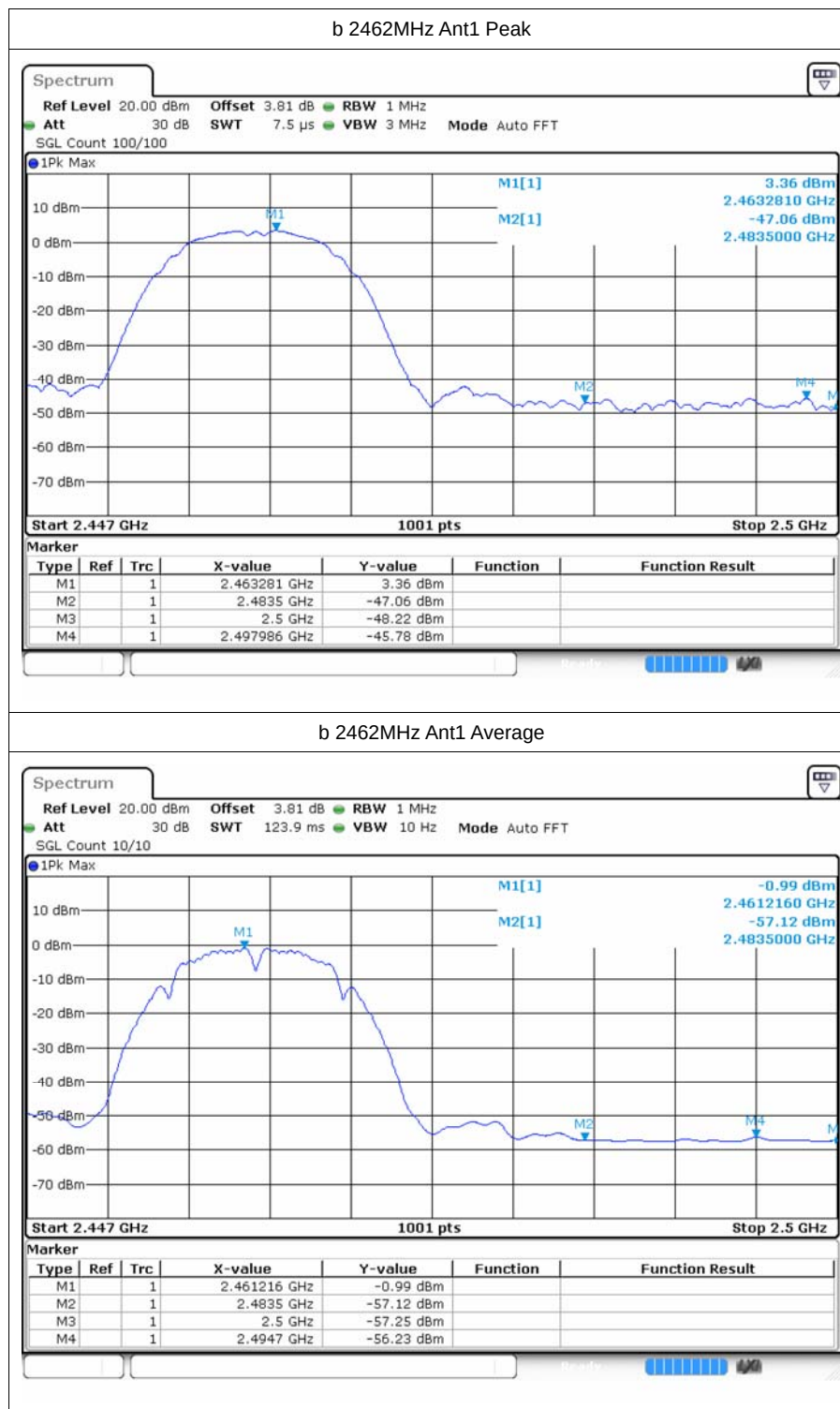
Mod e	Frequency (MHz)	Antenn a	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detecto r	Limit (dBuV/m)	Verdic t
b	2412	Ant1	2310	-45.84	2	51.42	Peak	74	Pass
b	2412	Ant1	2310	-57.85	2	39.41	Average	54	Pass
b	2412	Ant1	2344.983	-44.81	2	52.45	Peak	74	Pass
b	2412	Ant1	2383.476	-55.75	2	41.51	Average	54	Pass
b	2412	Ant1	2390	-47.95	2	49.31	Peak	74	Pass
b	2412	Ant1	2390	-57.4	2	39.86	Average	54	Pass
b	2462	Ant1	2483.5	-47.06	2	50.2	Peak	74	50.2
b	2462	Ant1	2483.5	-57.11	2	40.15	Average	54	Pass
b	2462	Ant1	2497.986	-45.77	2	51.49	Peak	74	Pass
b	2462	Ant1	2494.7	-56.23	2	41.03	Average	54	Pass
b	2462	Ant1	2500	-48.21	2	49.05	Peak	74	Pass
b	2462	Ant1	2500	-57.25	2	40.01	Average	54	Pass
g	2412	Ant1	2310	-49.08	2	48.18	Peak	74	Pass
g	2412	Ant1	2310	-58.05	2	39.21	Average	54	Pass
g	2412	Ant1	2384.295	-44.54	2	52.72	Peak	74	Pass
g	2412	Ant1	2336.676	-56.11	2	41.15	Average	54	Pass
g	2412	Ant1	2390	-46.4	2	49.31	Peak	74	Pass
g	2412	Ant1	2390	-56.25	2	41.01	Average	54	Pass
g	2462	Ant1	2483.5	-47.3	2	49.96	Peak	74	Pass
g	2462	Ant1	2483.5	-56.13	2	41.13	Average	54	Pass
g	2462	Ant1	2497.986	-44.39	2	52.87	Peak	74	Pass
g	2462	Ant1	2483.517	-56.13	2	41.13	Average	54	Pass
g	2462	Ant1	2500	-46.52	2	49.05	Peak	74	Pass
g	2462	Ant1	2500	-56.87	2	40.39	Average	54	Pass
n20	2412	Ant1	2310	-47.24	2	50.02	Peak	74	Pass
n20	2412	Ant1	2310	-58.03	2	39.23	Average	54	Pass
n20	2412	Ant1	2382.072	-45.34	2	51.92	Peak	74	Pass
n20	2412	Ant1	2389.911	-55.99	2	41.27	Average	54	Pass
n20	2412	Ant1	2390	-45.84	2	51.42	Peak	74	Pass
n20	2412	Ant1	2390	-55.96	2	41.3	Average	54	Pass
n20	2462	Ant1	2483.5	-47.23	2	50.03	Peak	74	Pass
n20	2462	Ant1	2483.5	-55.87	2	41.39	Average	54	Pass
n20	2462	Ant1	2484.736	-45.57	2	51.69	Peak	74	Pass
n20	2462	Ant1	2483.517	-55.87	2	41.39	Average	54	Pass



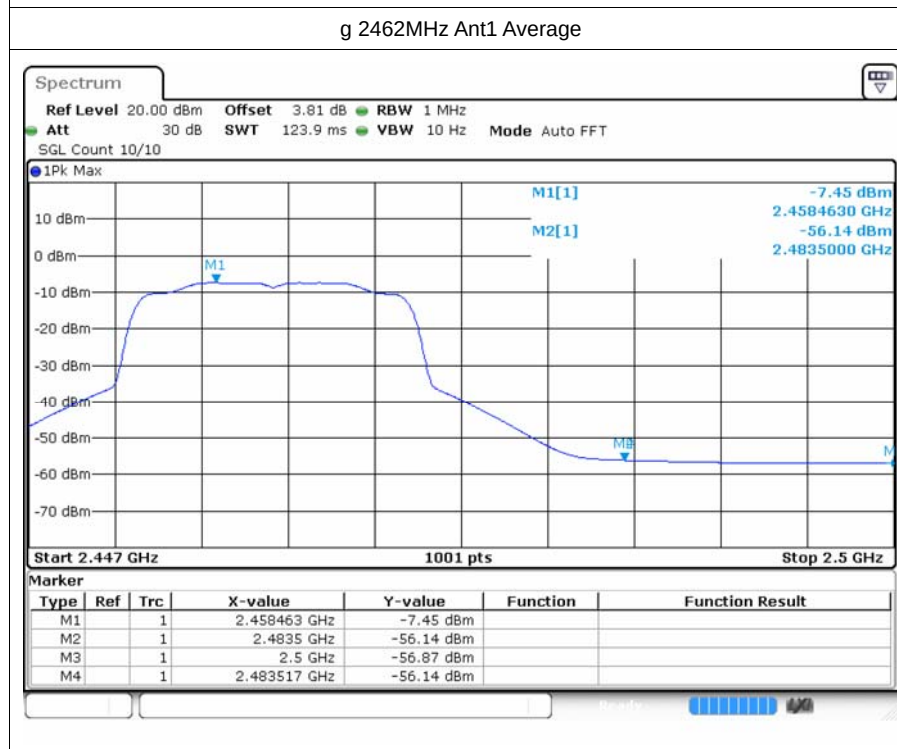
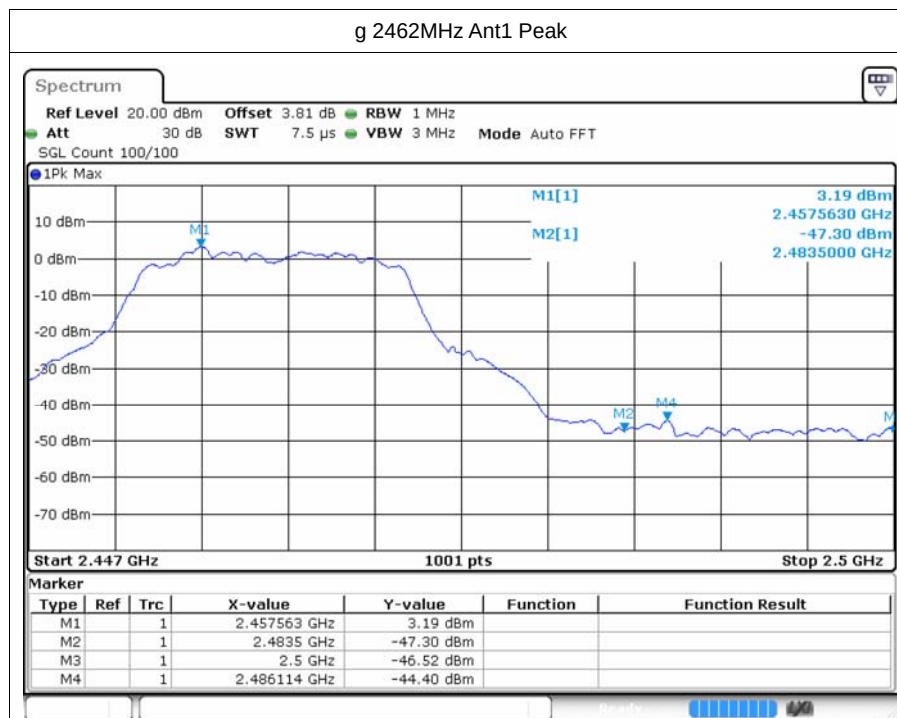
n20	2462	Ant1	2500	-48.79	2	48.47	Peak	74	Pass
n20	2462	Ant1	2500	-56.79	2	40.47	Average	54	Pass

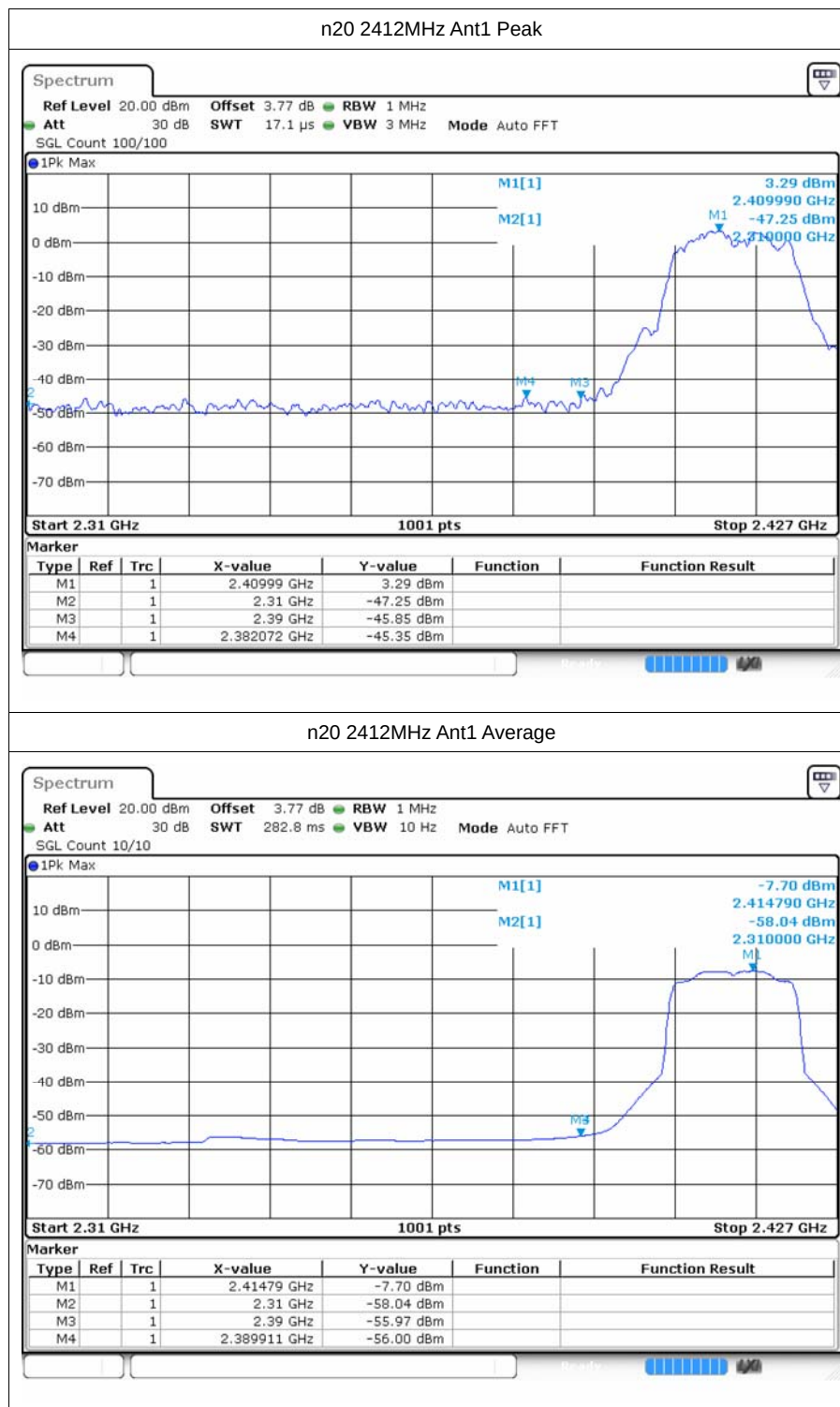
7.2 Test Graphs

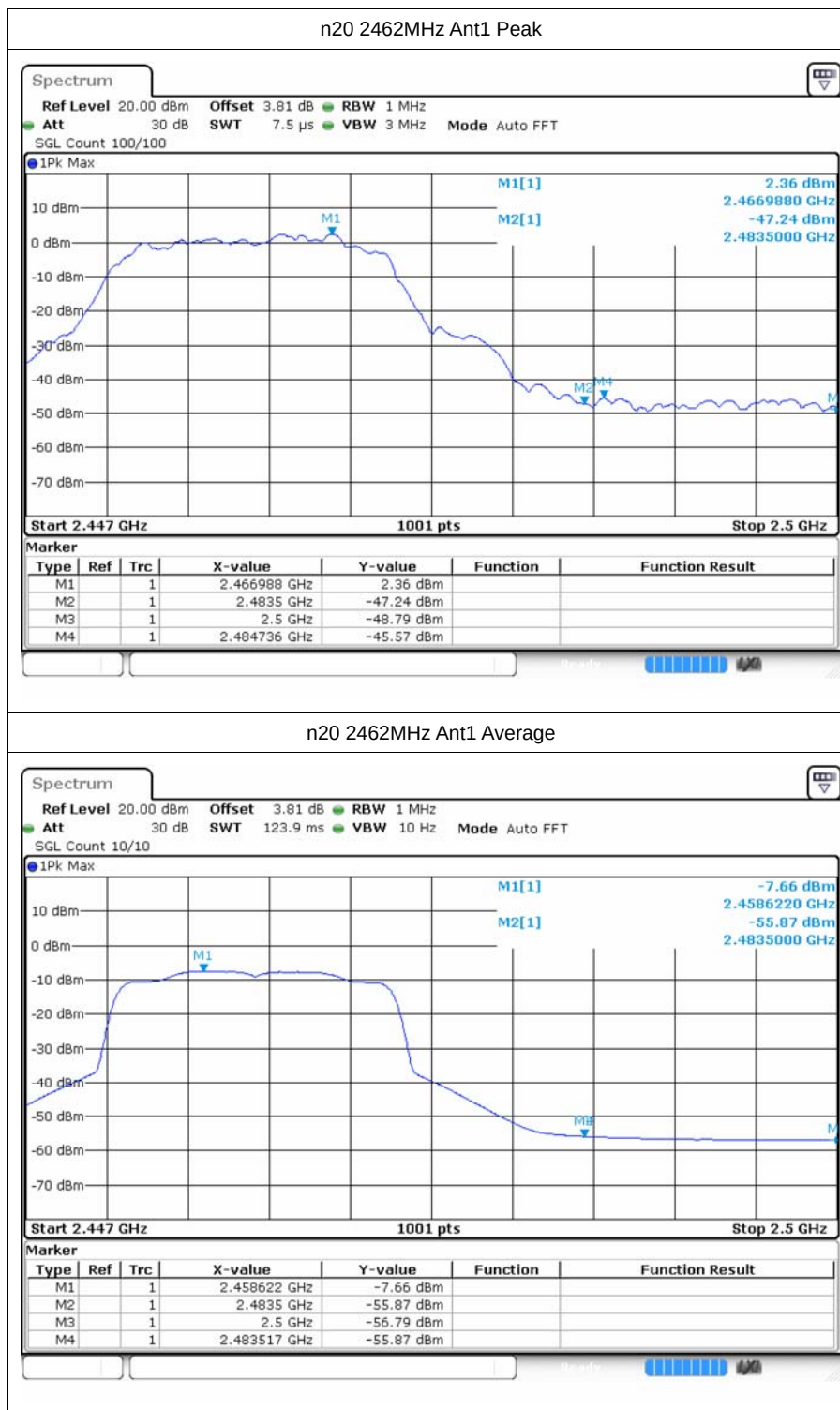












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