



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Bao-ao Smart AI Toys Cute mouse1.0

Trade Mark: Bubbotparty

Test Model: BBAI-Bao-ao-01-25

Environmental Conditions

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



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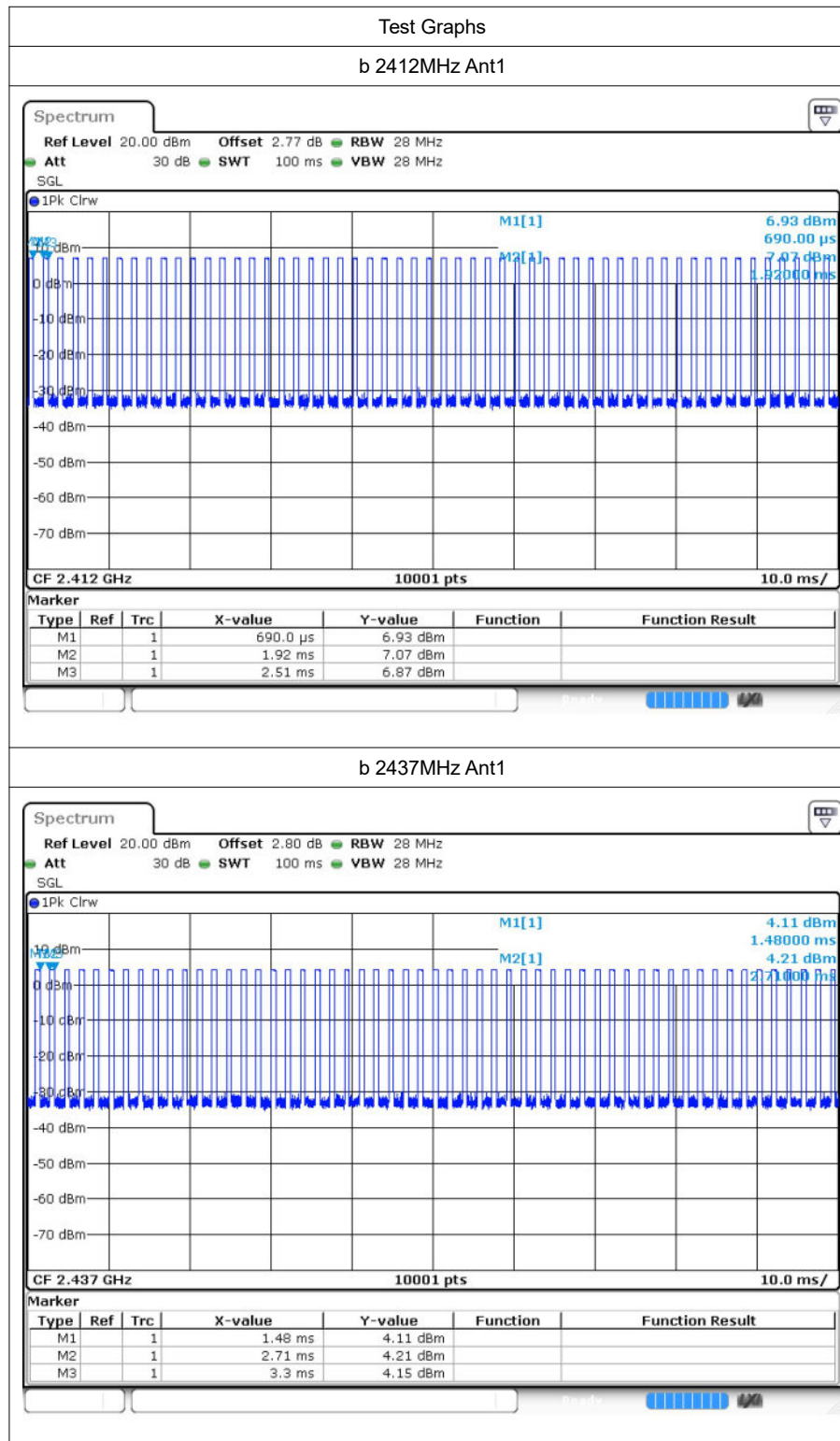


1 Duty Cycle

1.1 Test Result

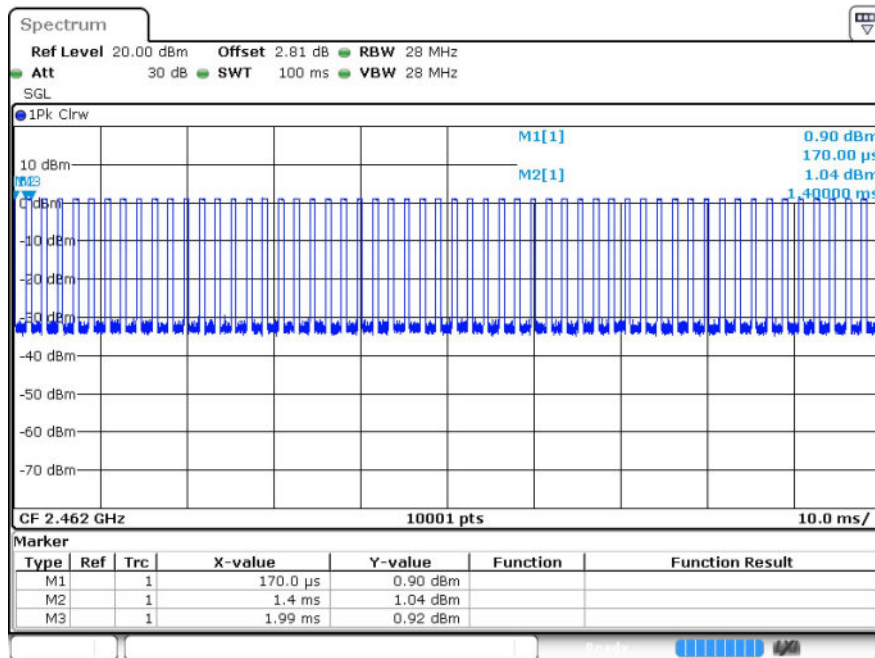
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor	1/T (kHz)
b	2412	Ant1	33.15	4.8	1.69
b	2437	Ant1	33.12	4.8	1.69
b	2462	Ant1	33.13	4.8	1.69
g	2412	Ant1	32.94	4.82	1.69
g	2437	Ant1	32.7	4.85	1.69
g	2462	Ant1	32.68	4.86	1.69
n20	2412	Ant1	31.54	5.01	1.79
n20	2437	Ant1	31.83	4.97	1.79
n20	2462	Ant1	31.92	4.96	1.79
n40	2422	Ant1	32.64	4.86	1.72
n40	2437	Ant1	32.45	4.89	1.72
n40	2452	Ant1	32.61	4.87	1.72

1.2 Test Graphs

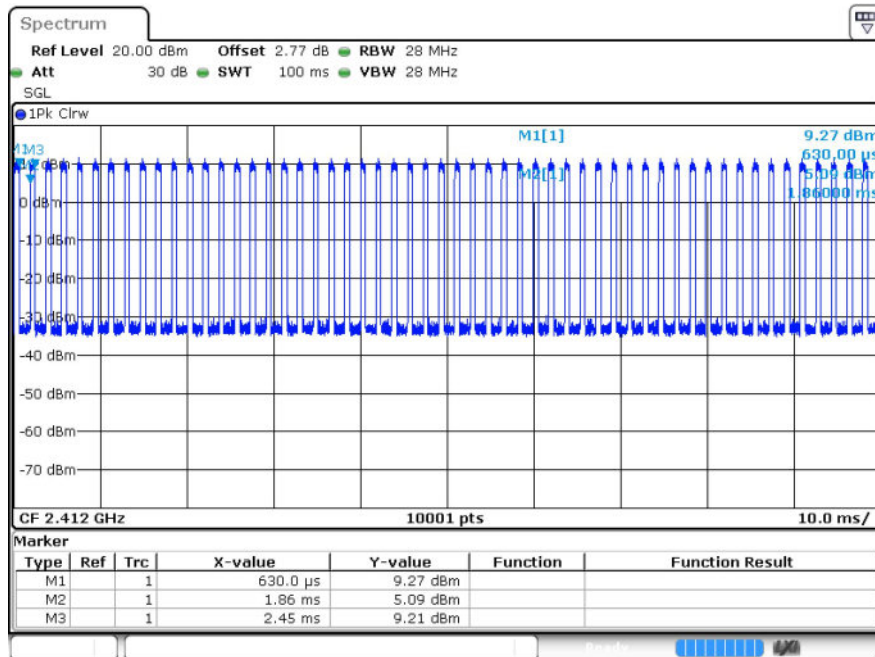


Test Graphs

b 2462MHz Ant1



g 2412MHz Ant1

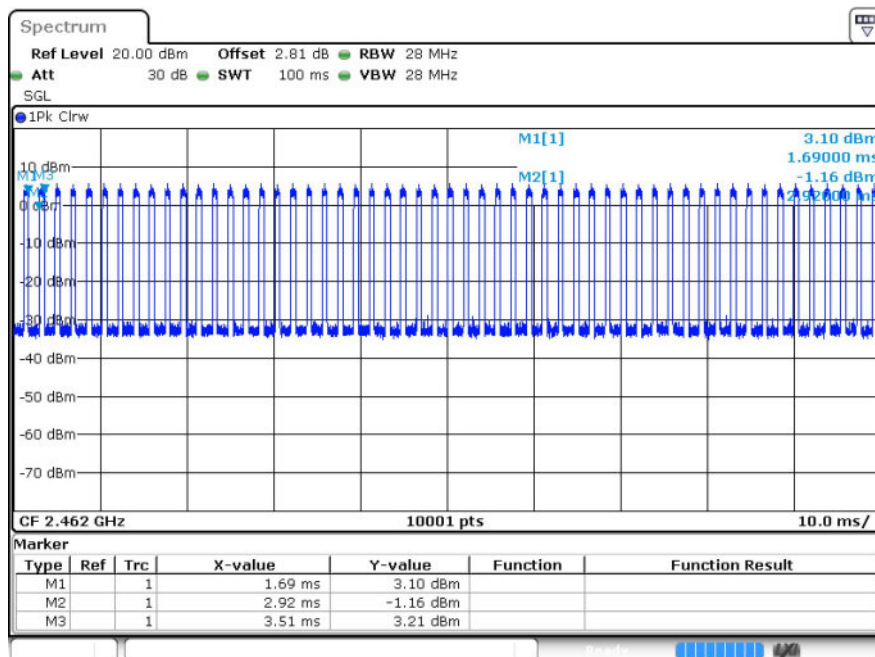


Test Graphs

g 2437MHz Ant1

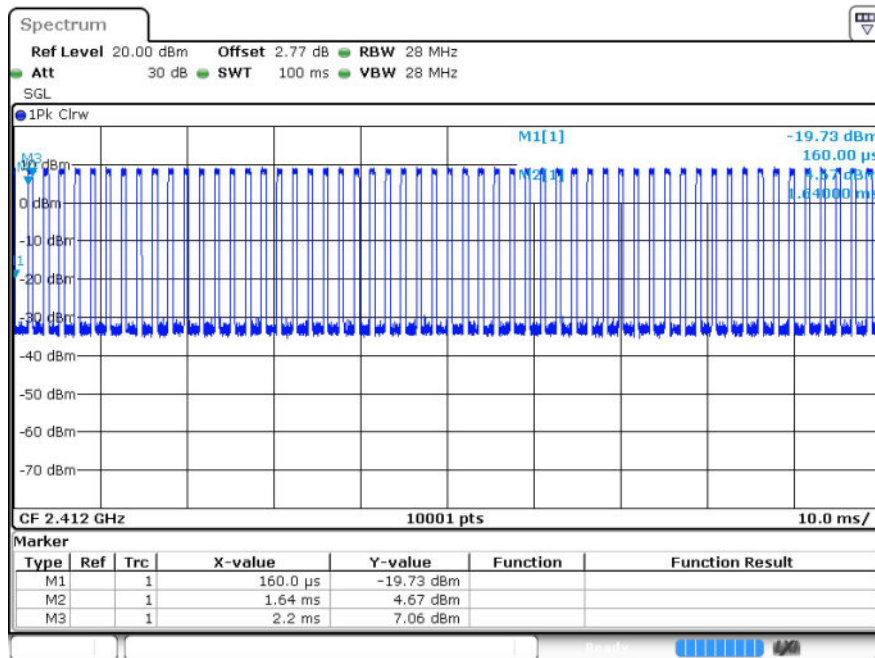


g 2462MHz Ant1

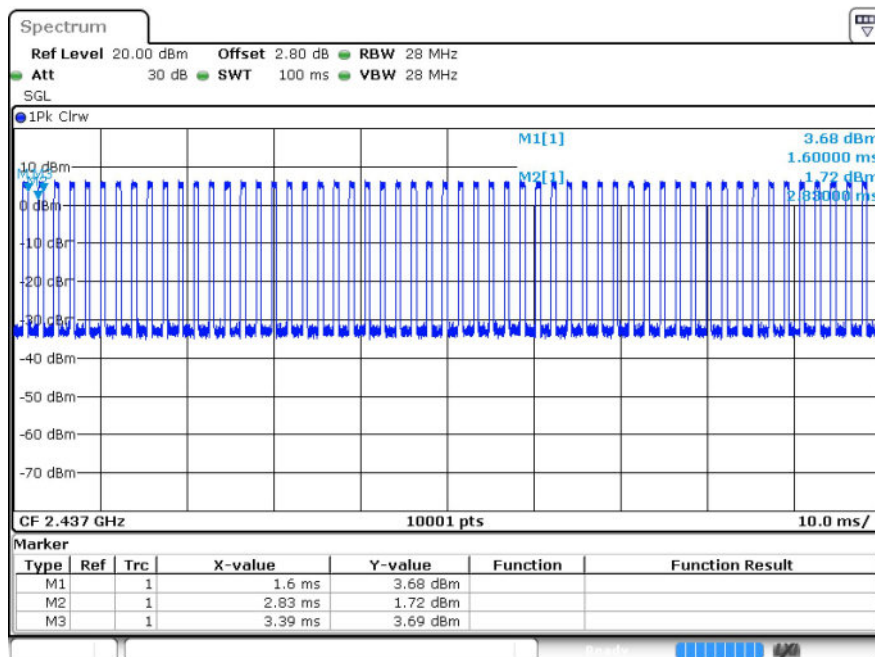


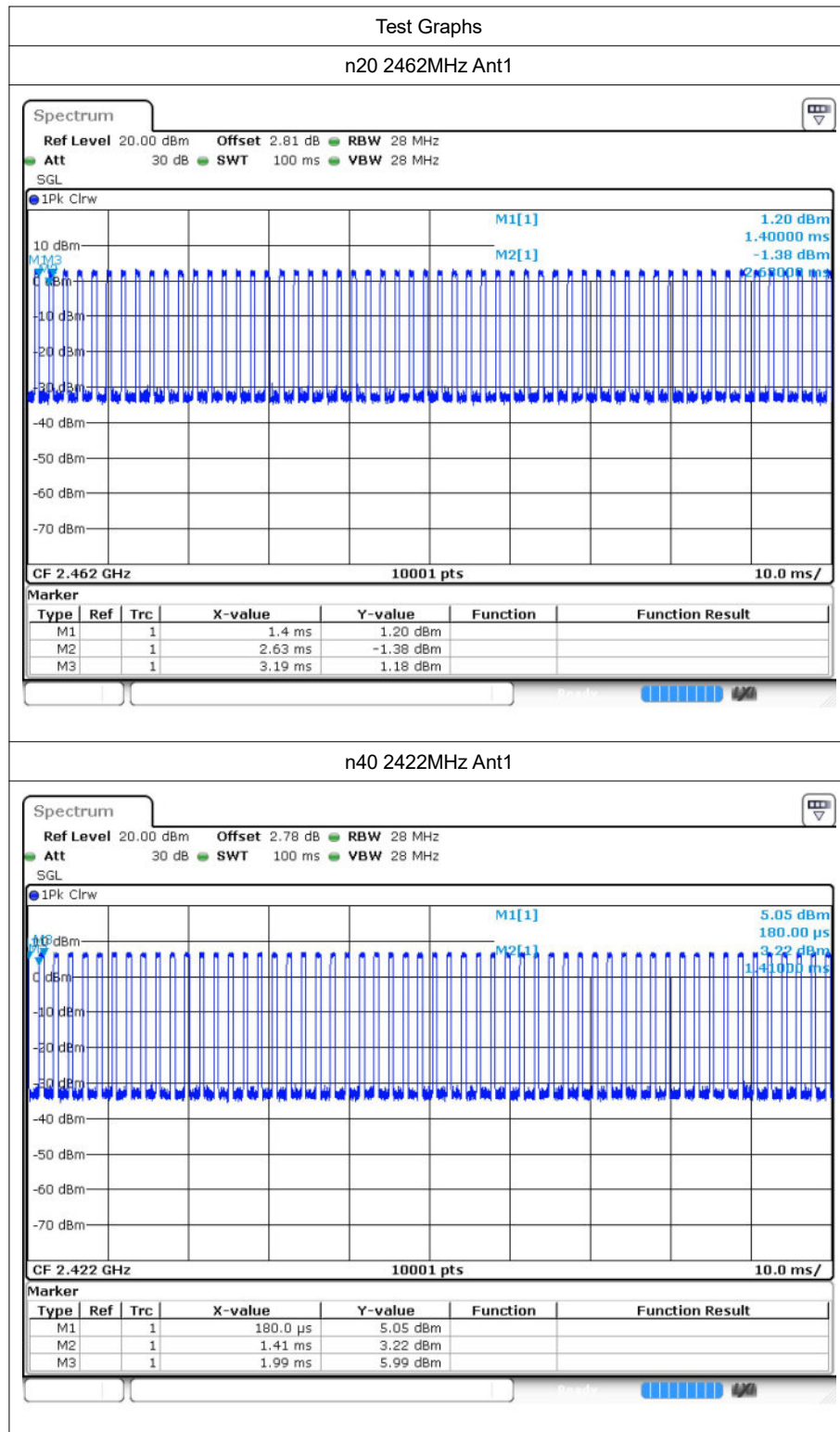
Test Graphs

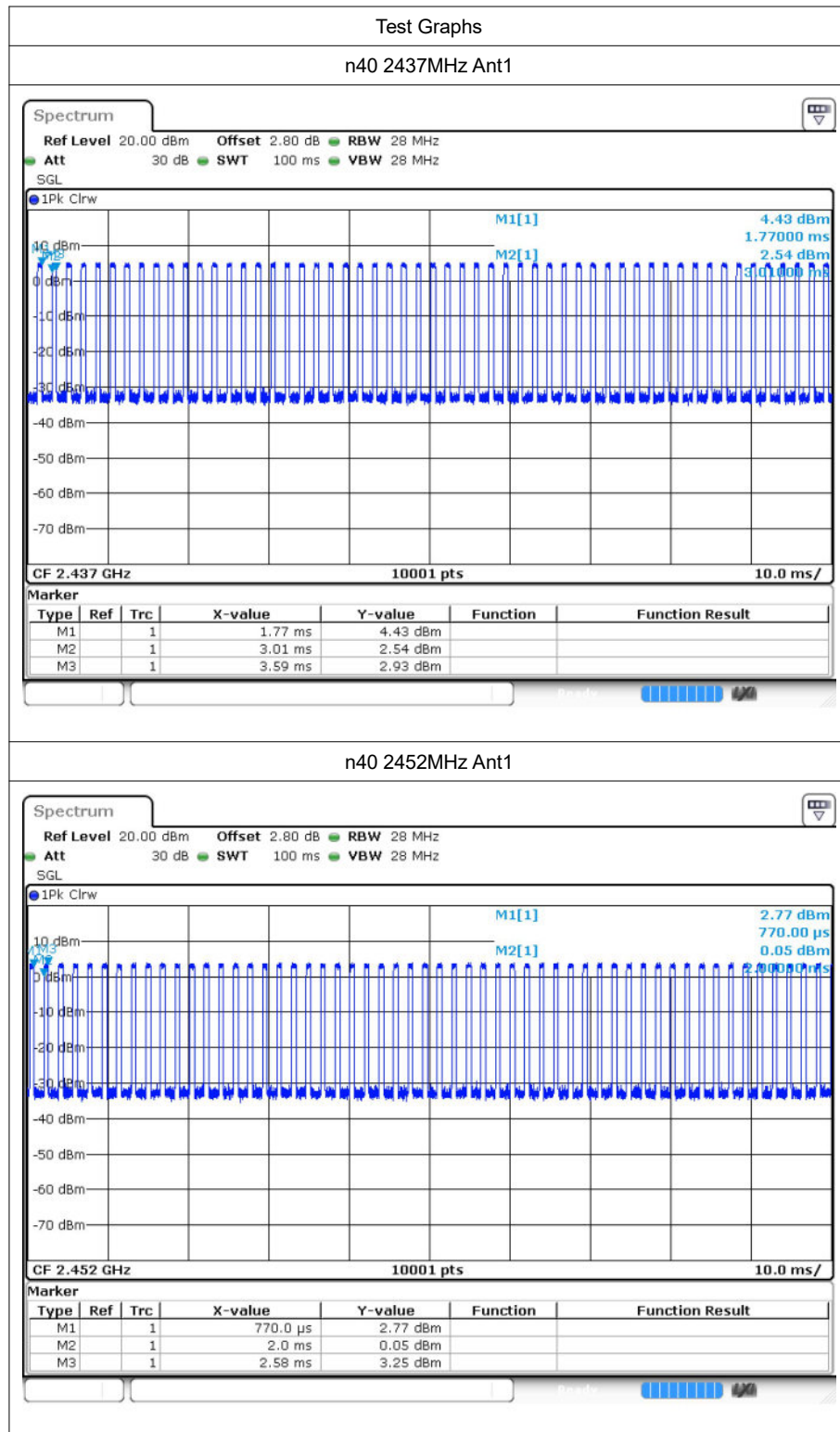
n20 2412MHz Ant1



n20 2437MHz Ant1







2 Maximum Conducted Output Power

2.1 Test Result

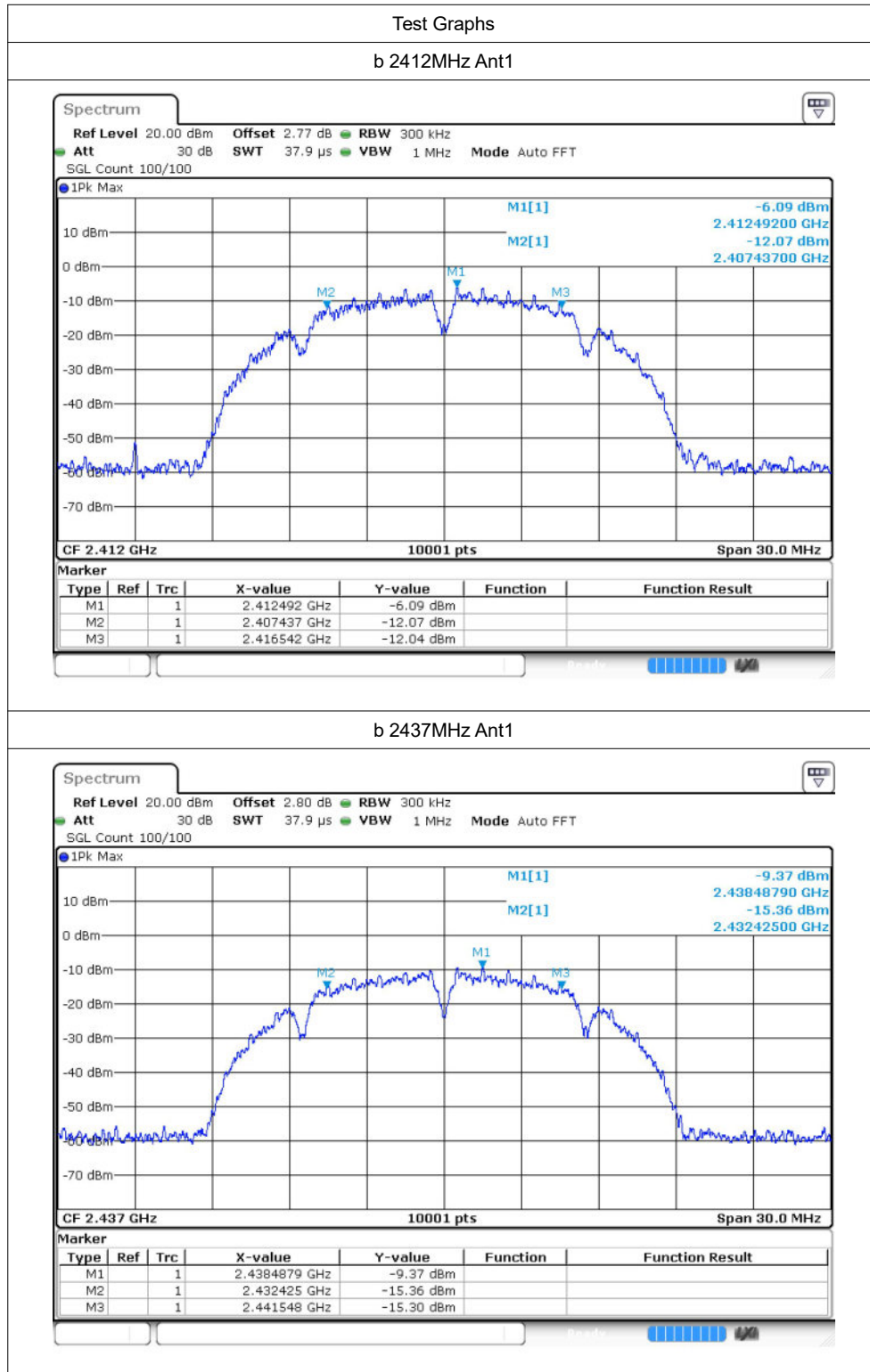
Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant1	7.82	30	Pass
b	2437	Ant1	4.92	30	Pass
b	2462	Ant1	1.68	30	Pass
g	2412	Ant1	7.49	30	Pass
g	2437	Ant1	4.62	30	Pass
g	2462	Ant1	1.2	30	Pass
n20	2412	Ant1	7.01	30	Pass
n20	2437	Ant1	3.99	30	Pass
n20	2462	Ant1	0.81	30	Pass
n40	2422	Ant1	6.91	30	Pass
n40	2437	Ant1	5.14	30	Pass
n40	2452	Ant1	3.65	30	Pass

3 -6dB Bandwidth

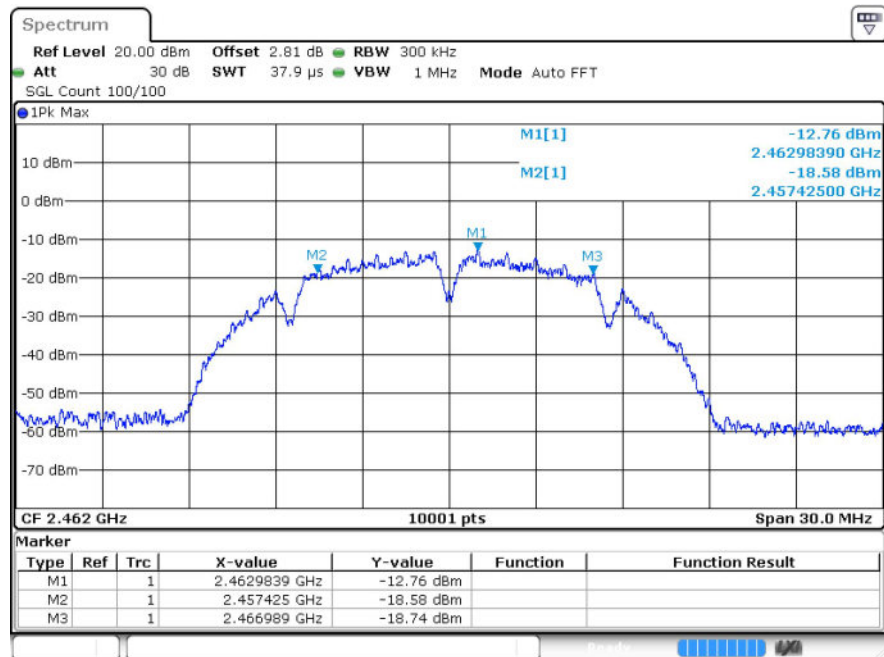
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	9.105	0.5	Pass
b	2437	Ant1	9.123	0.5	Pass
b	2462	Ant1	9.564	0.5	Pass
g	2412	Ant1	16.404	0.5	Pass
g	2437	Ant1	16.359	0.5	Pass
g	2462	Ant1	16.428	0.5	Pass
n20	2412	Ant1	15.36	0.5	Pass
n20	2437	Ant1	17.586	0.5	Pass
n20	2462	Ant1	15.972	0.5	Pass
n40	2422	Ant1	35.334	0.5	Pass
n40	2437	Ant1	35.658	0.5	Pass
n40	2452	Ant1	36.048	0.5	Pass

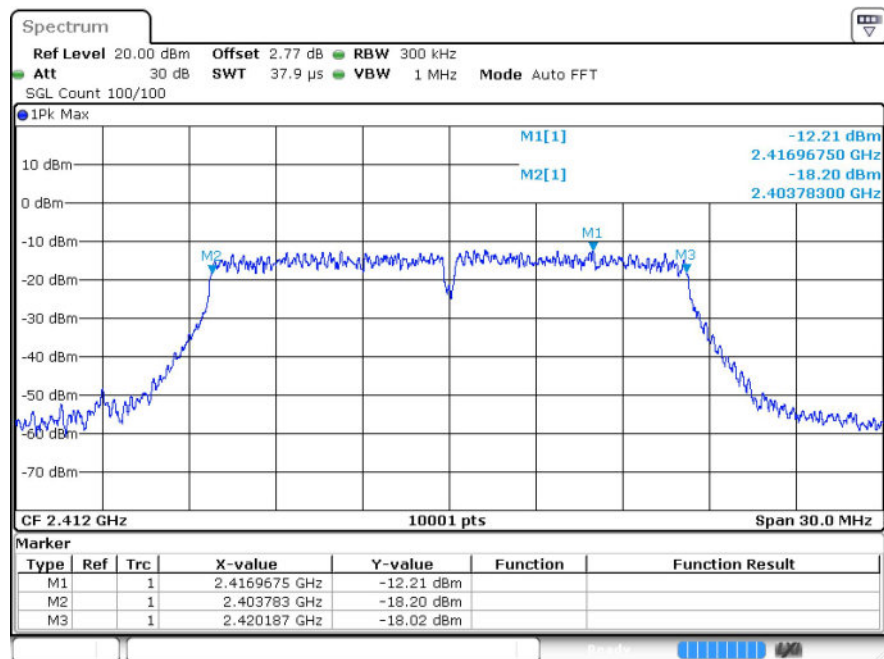
3.2 Test Graphs



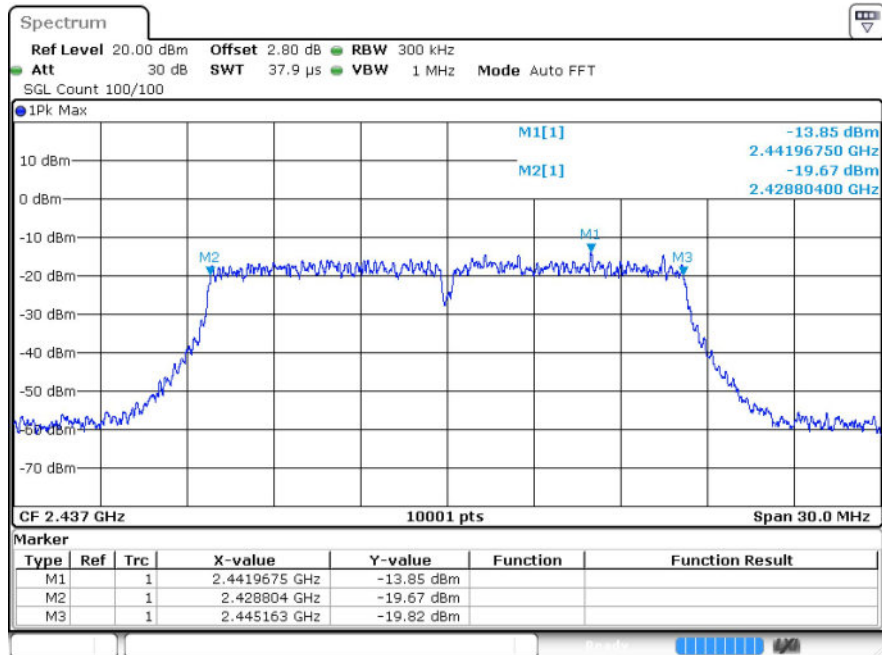
b 2462MHz Ant1



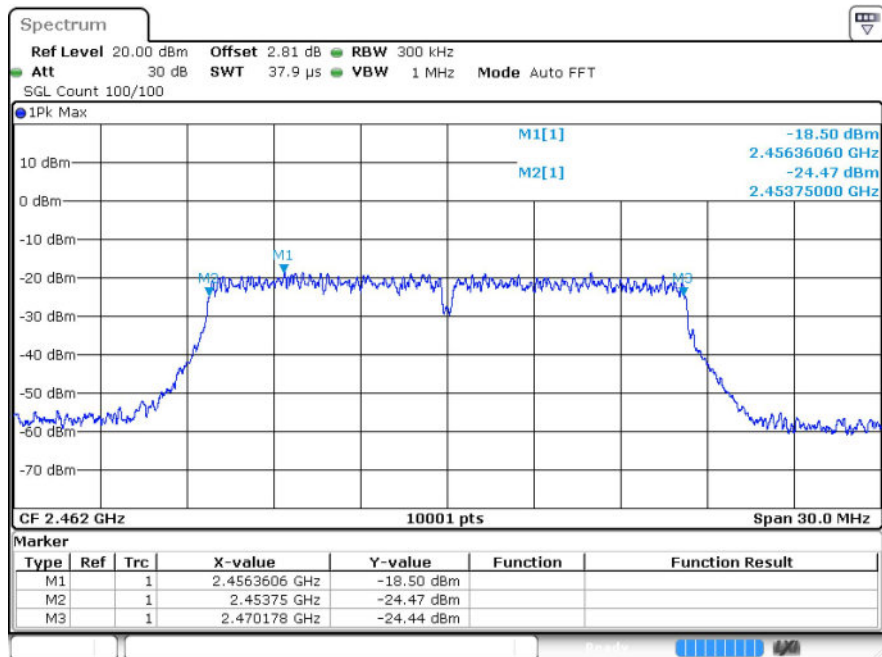
g 2412MHz Ant1

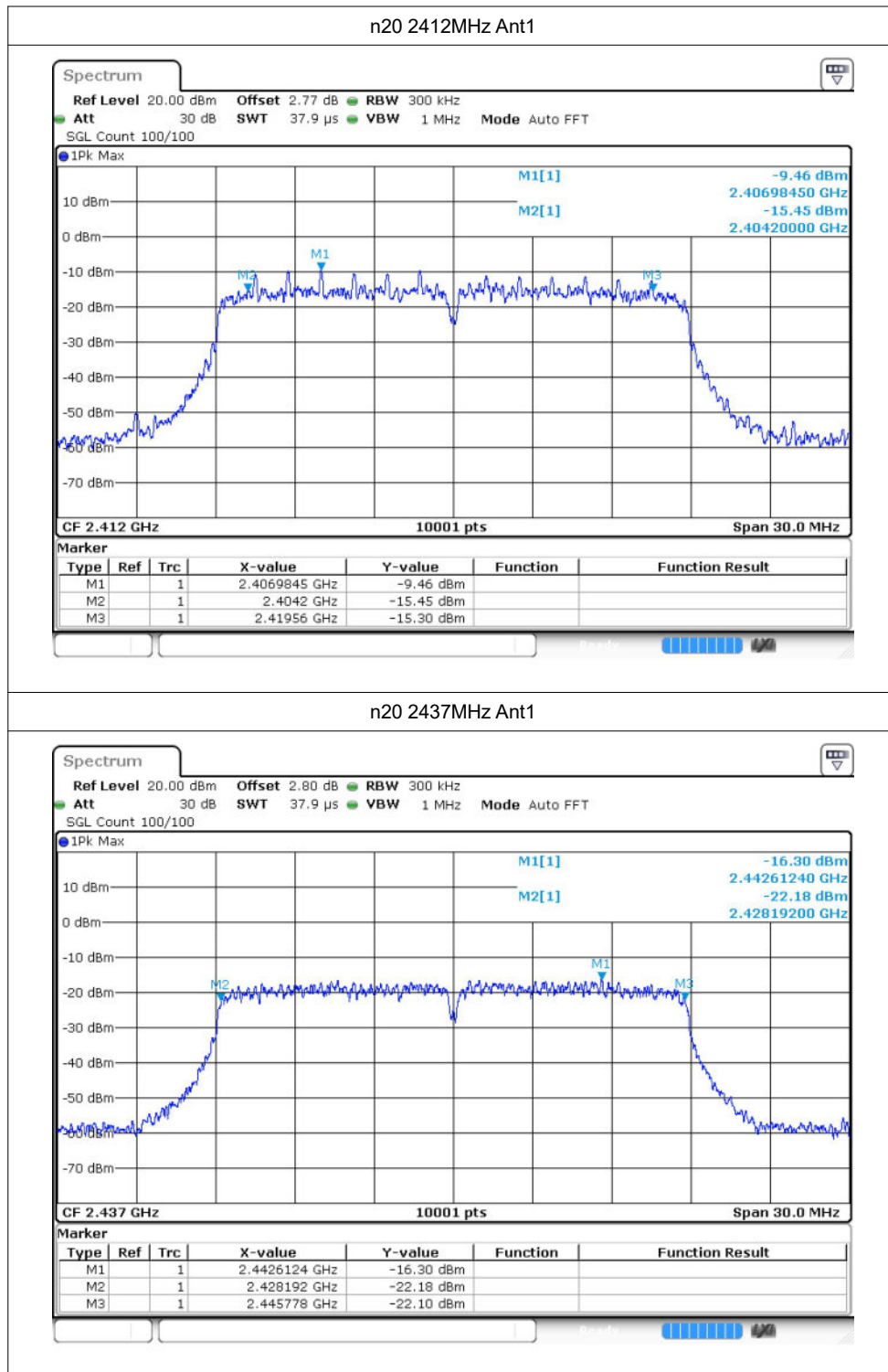


g 2437MHz Ant1

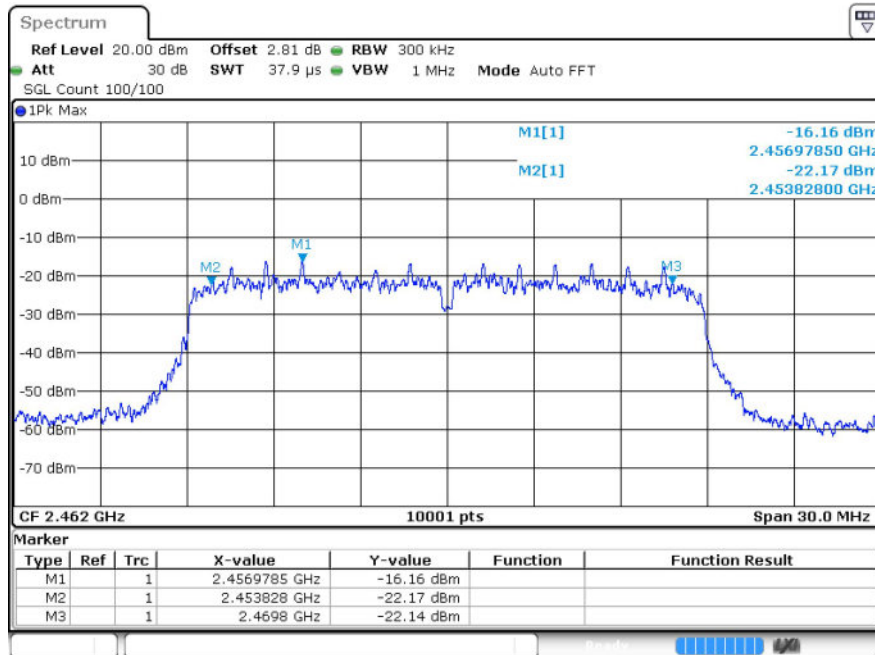


g 2462MHz Ant1

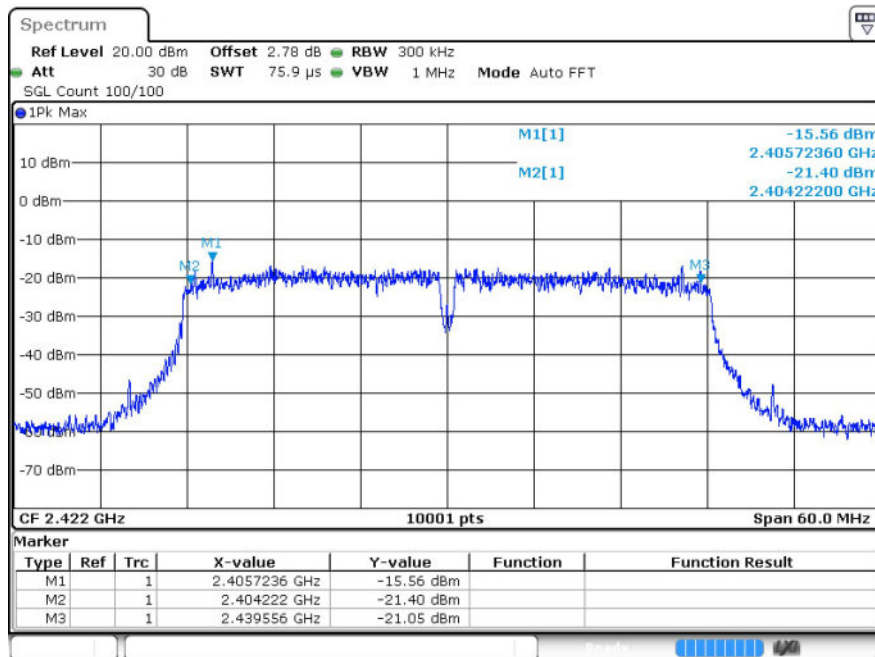




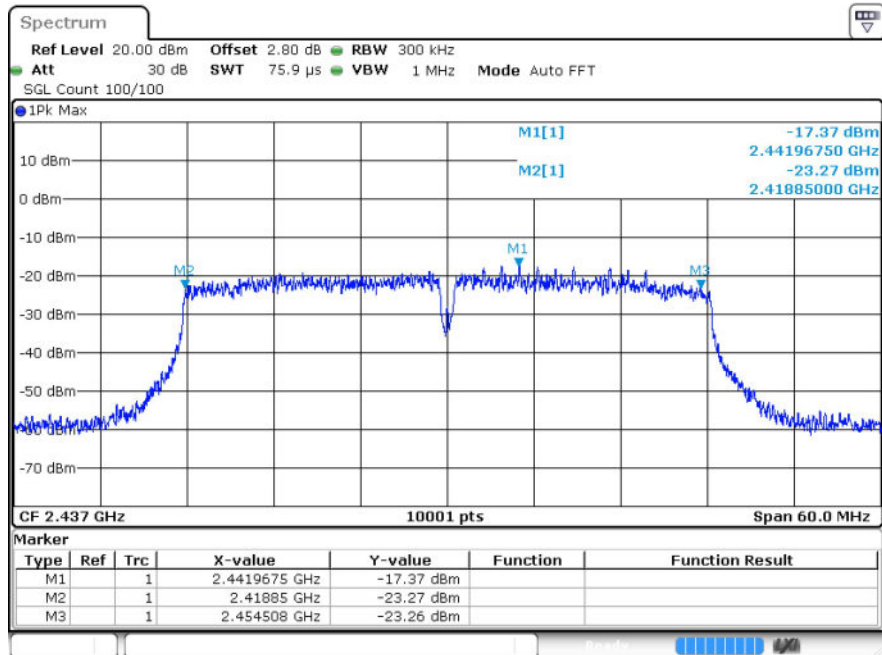
n20 2462MHz Ant1



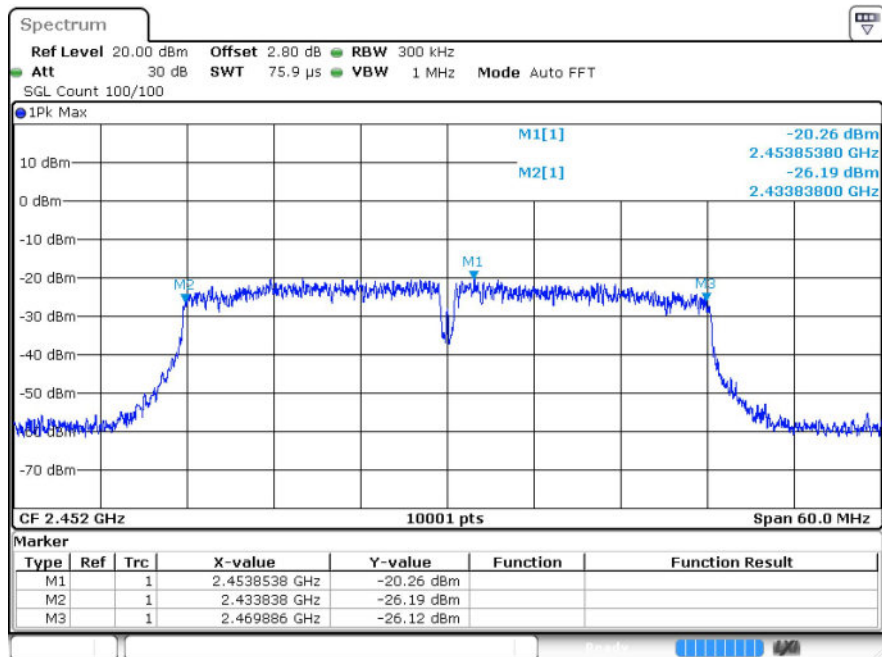
n40 2422MHz Ant1



n40 2437MHz Ant1



n40 2452MHz Ant1

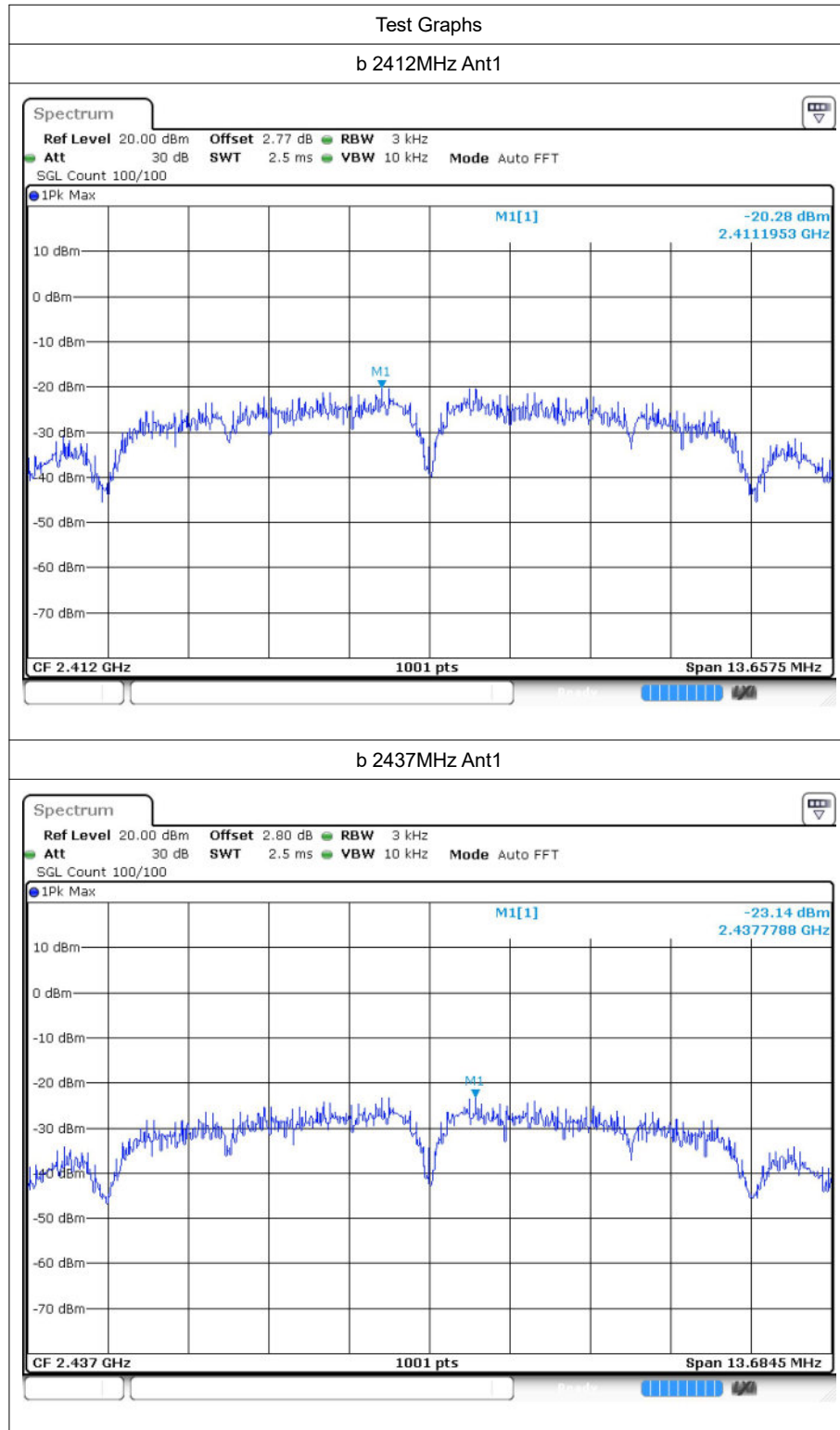


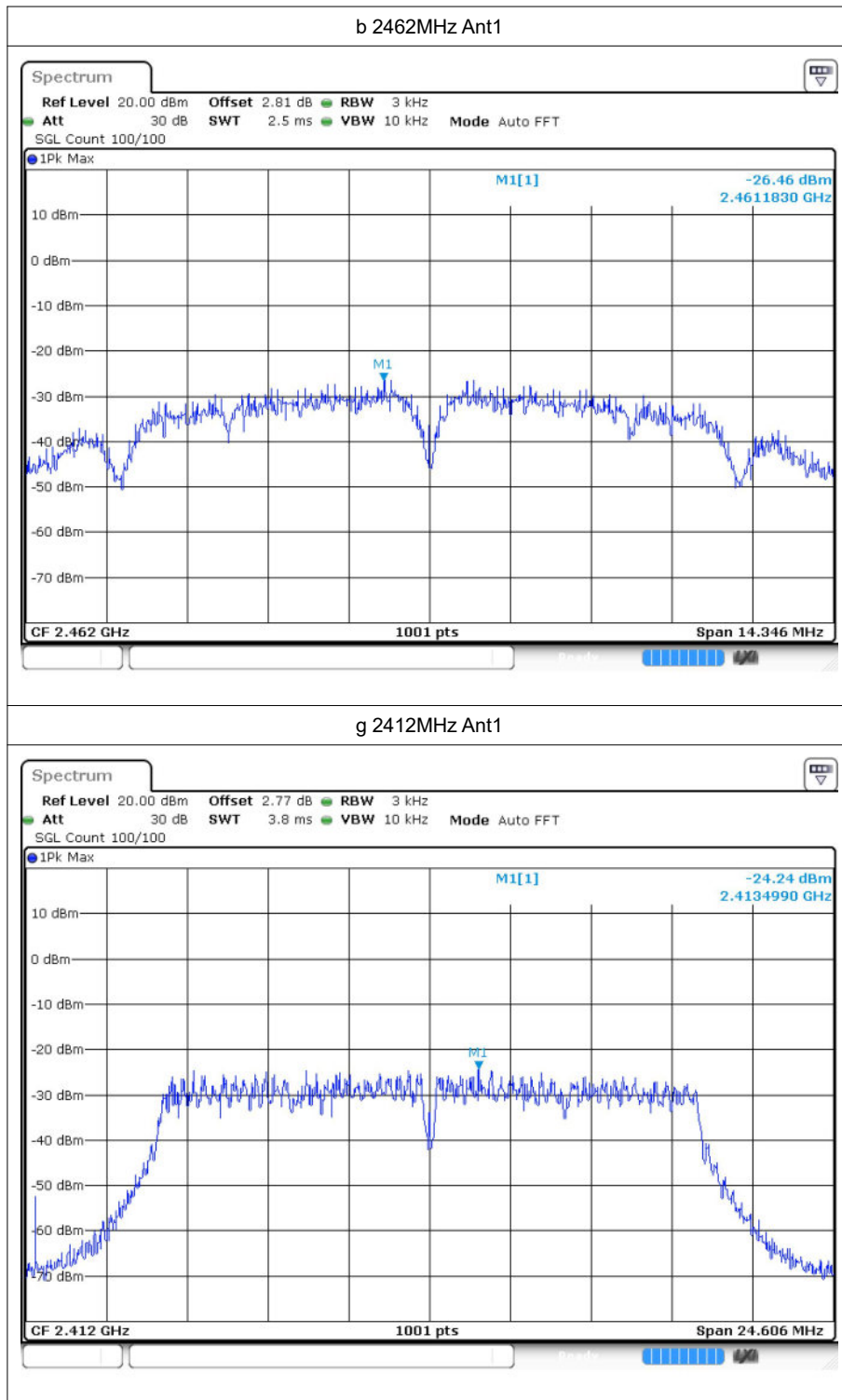
4 Maximum Power Spectral Density Level

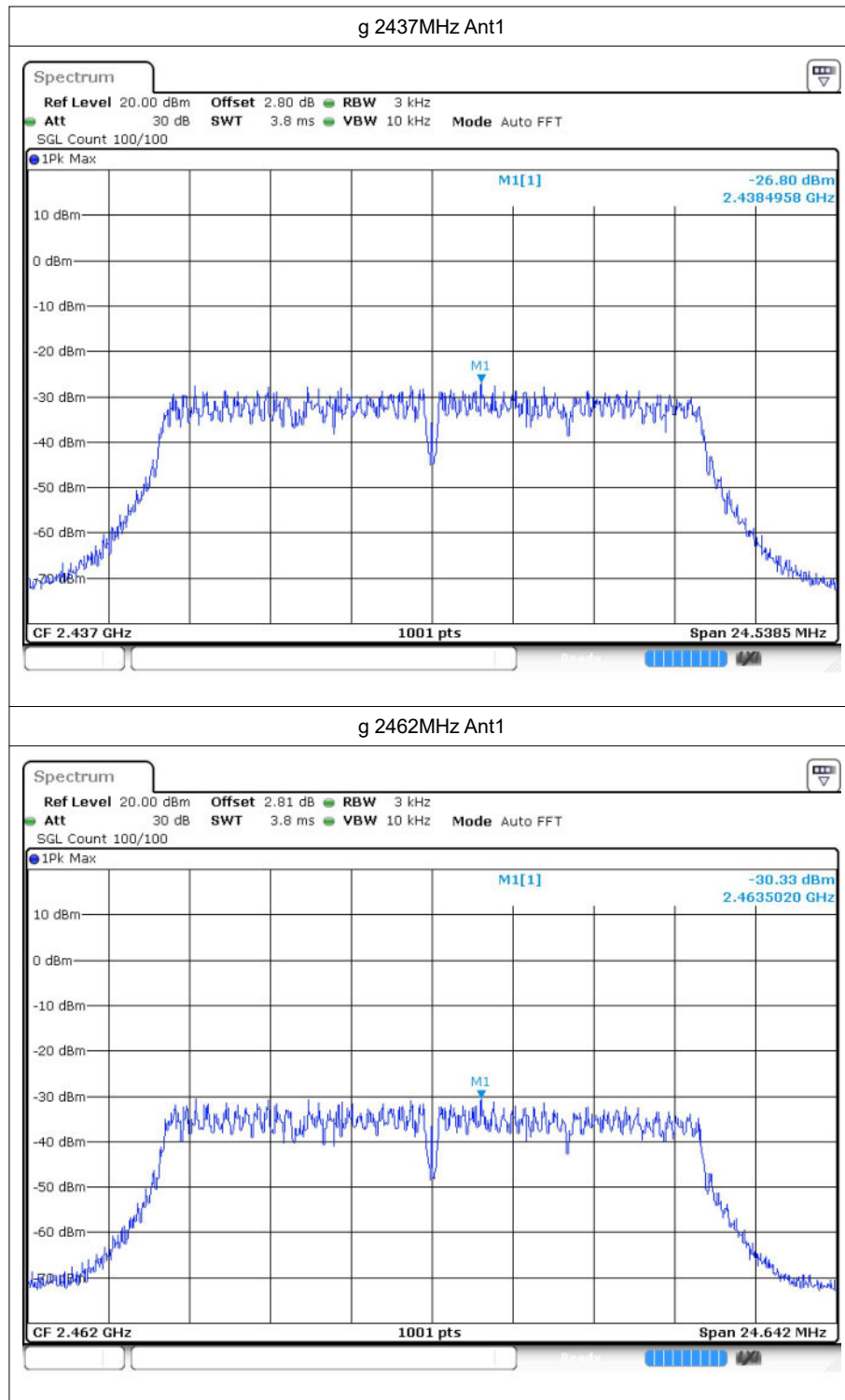
4.1 Test Result

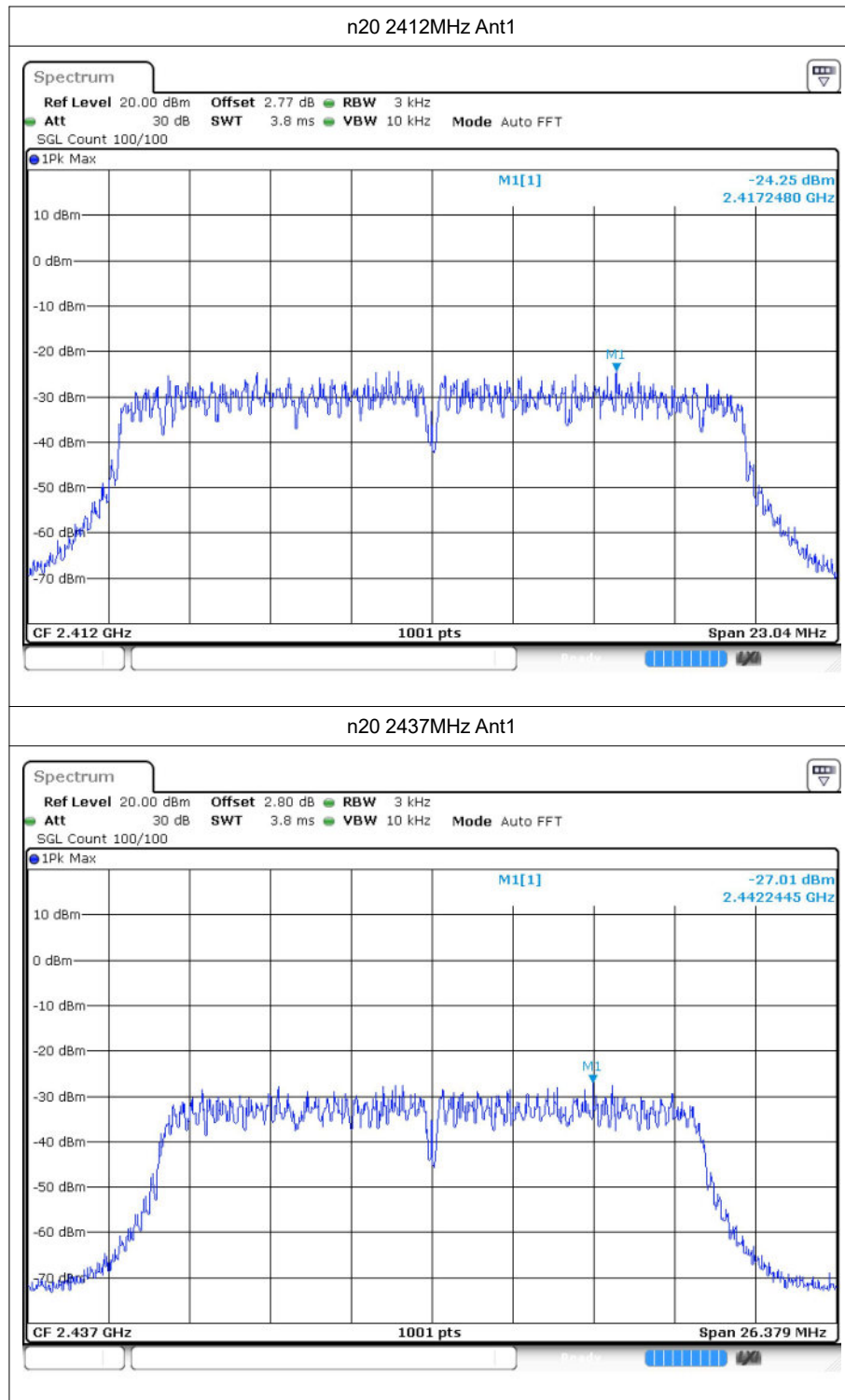
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
b	2412	Ant1	-20.28	≤8	Pass
b	2437	Ant1	-23.14	≤8	Pass
b	2462	Ant1	-26.46	≤8	Pass
g	2412	Ant1	-24.24	≤8	Pass
g	2437	Ant1	-26.8	≤8	Pass
g	2462	Ant1	-30.33	≤8	Pass
n20	2412	Ant1	-24.25	≤8	Pass
n20	2437	Ant1	-27.01	≤8	Pass
n20	2462	Ant1	-30.74	≤8	Pass
n40	2422	Ant1	-27.51	≤8	Pass
n40	2437	Ant1	-29.02	≤8	Pass
n40	2452	Ant1	-30.28	≤8	Pass

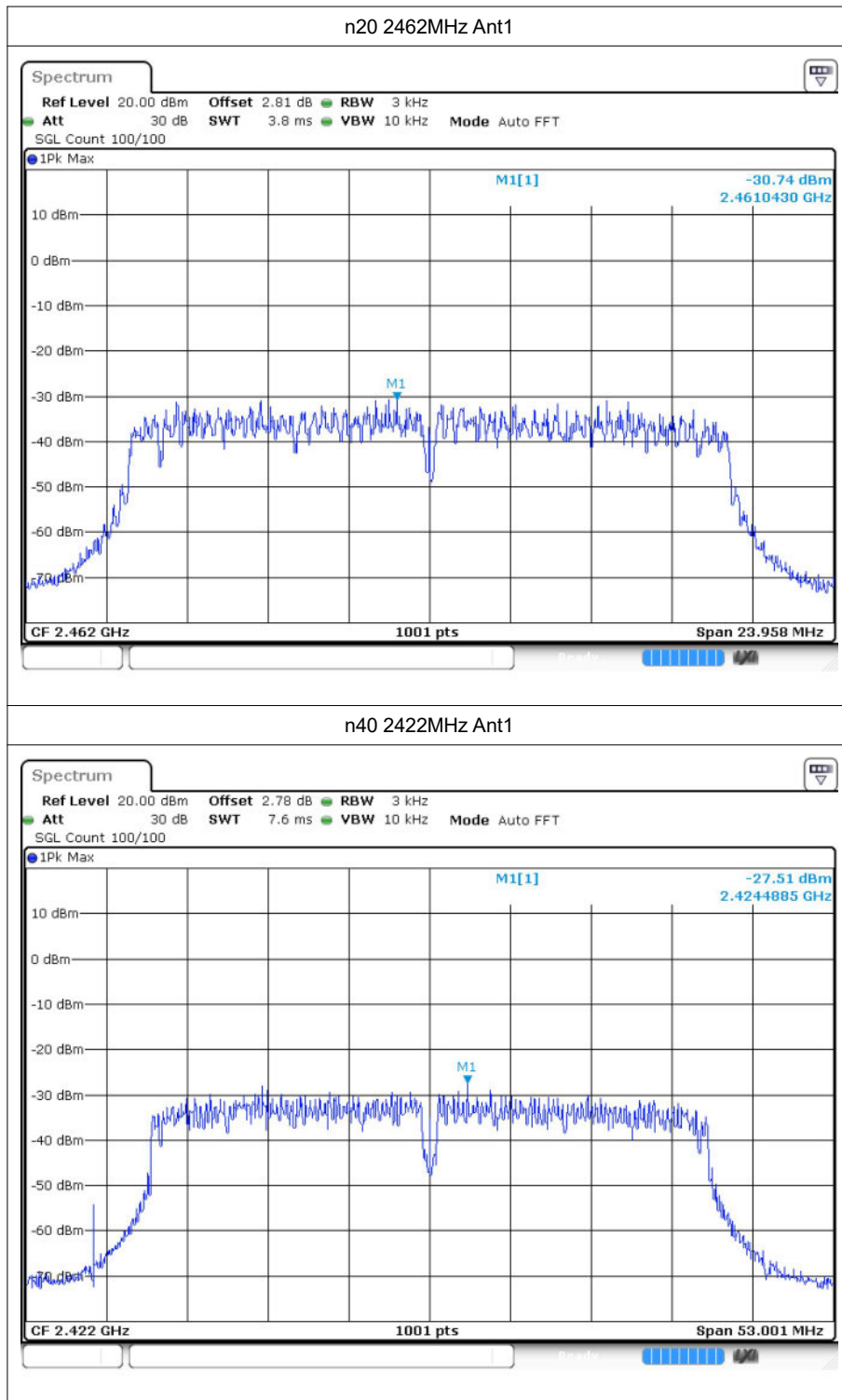
4.2 Test Graphs

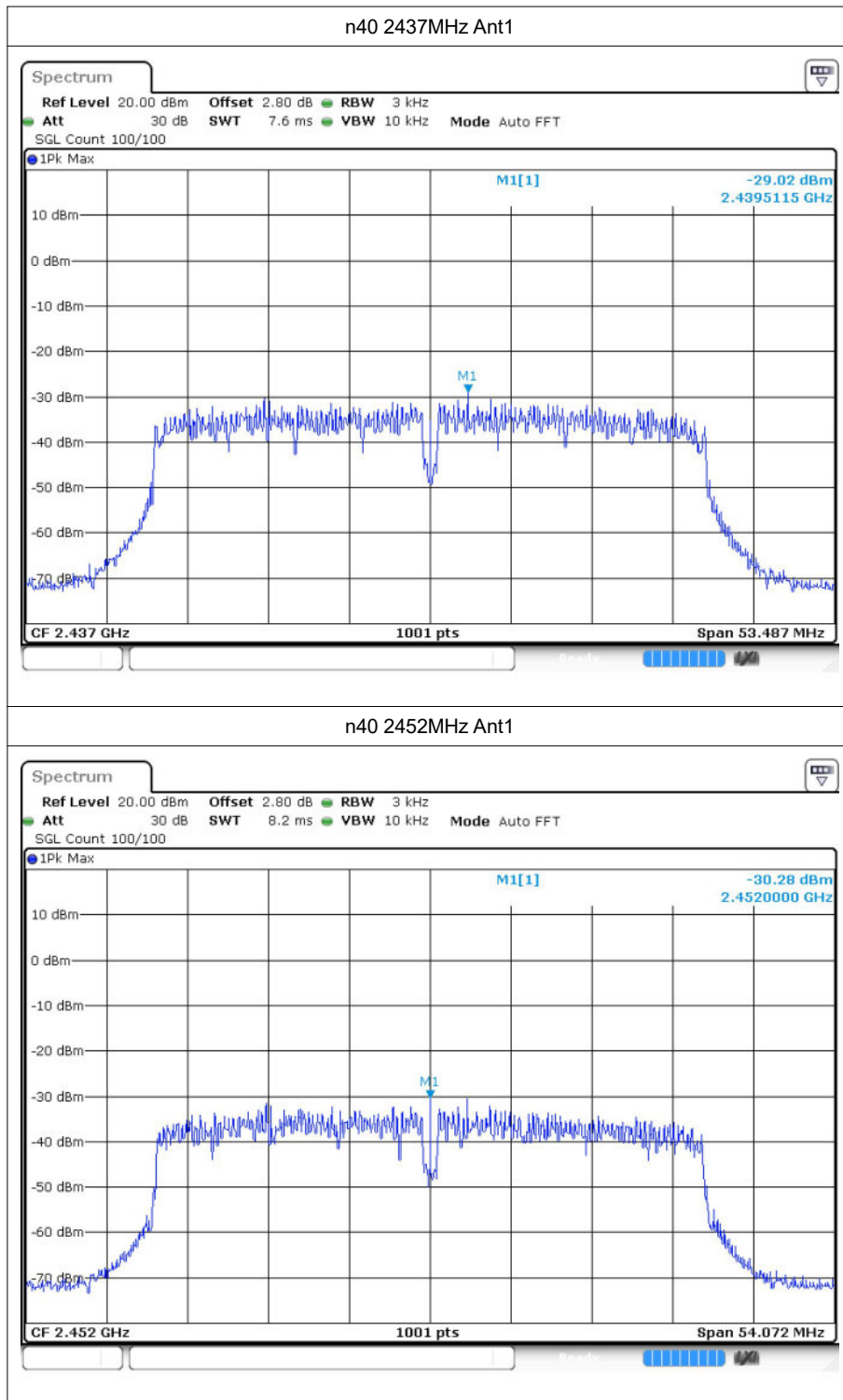












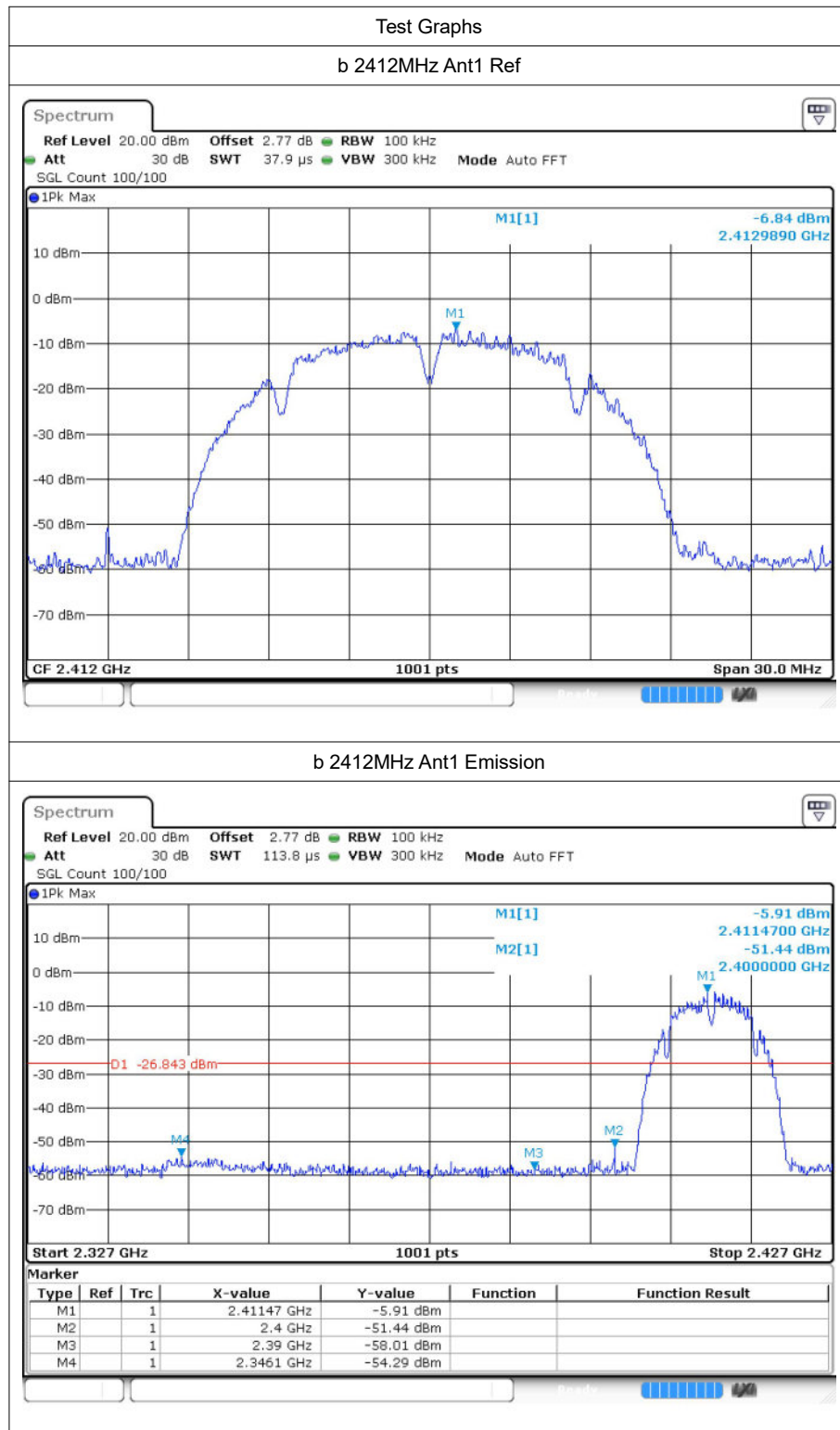


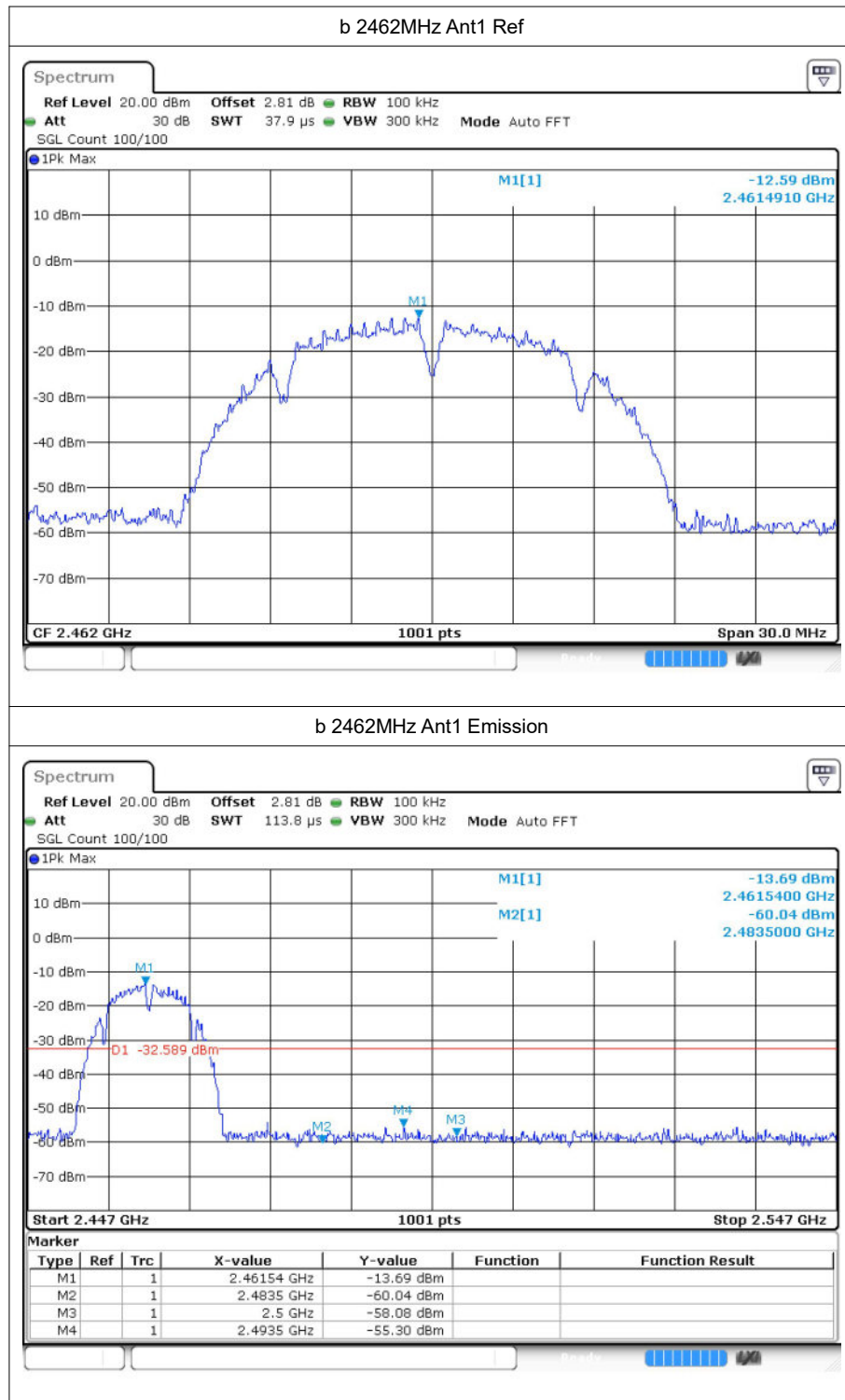
5 Band Edge

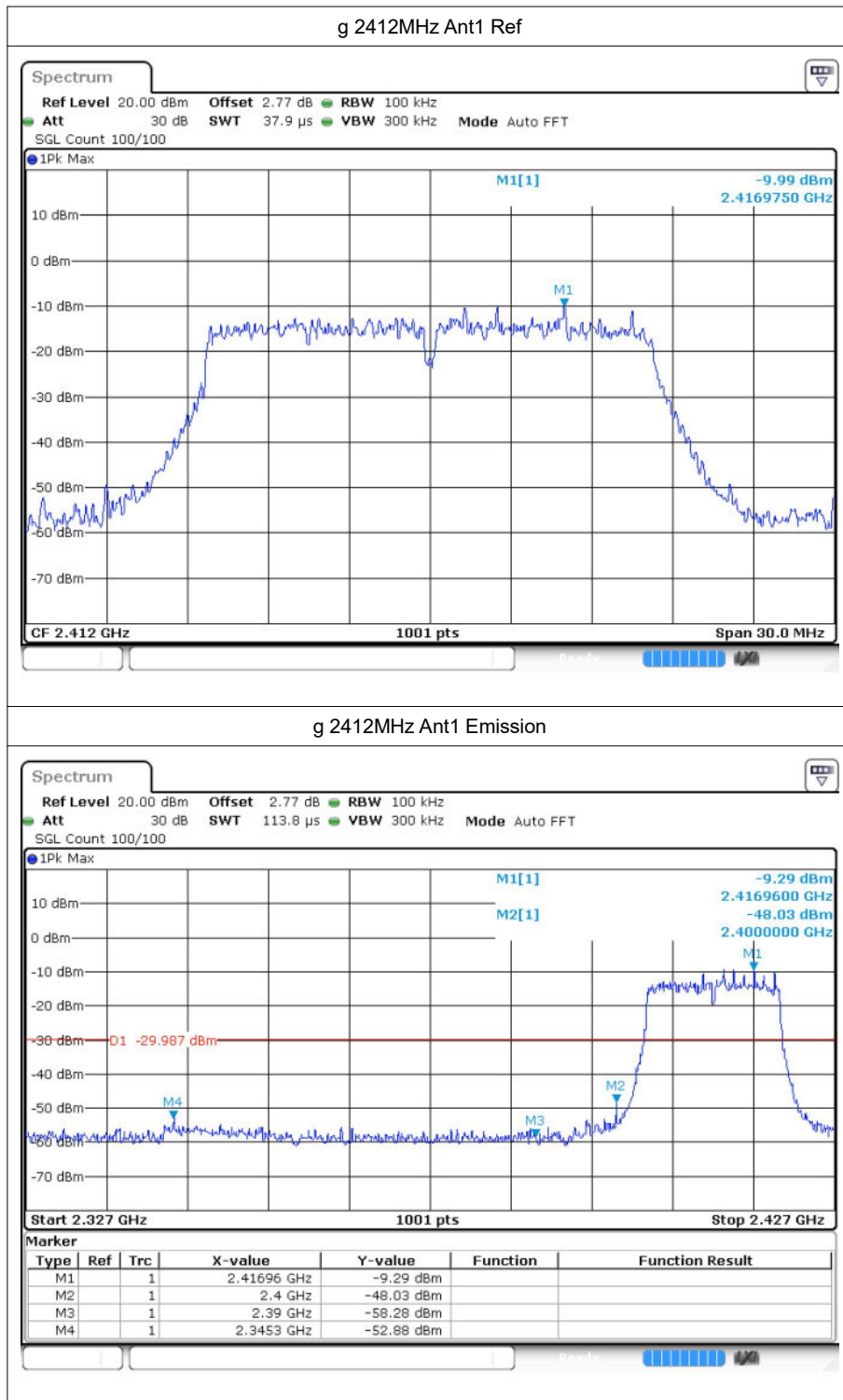
5.1 Test Result

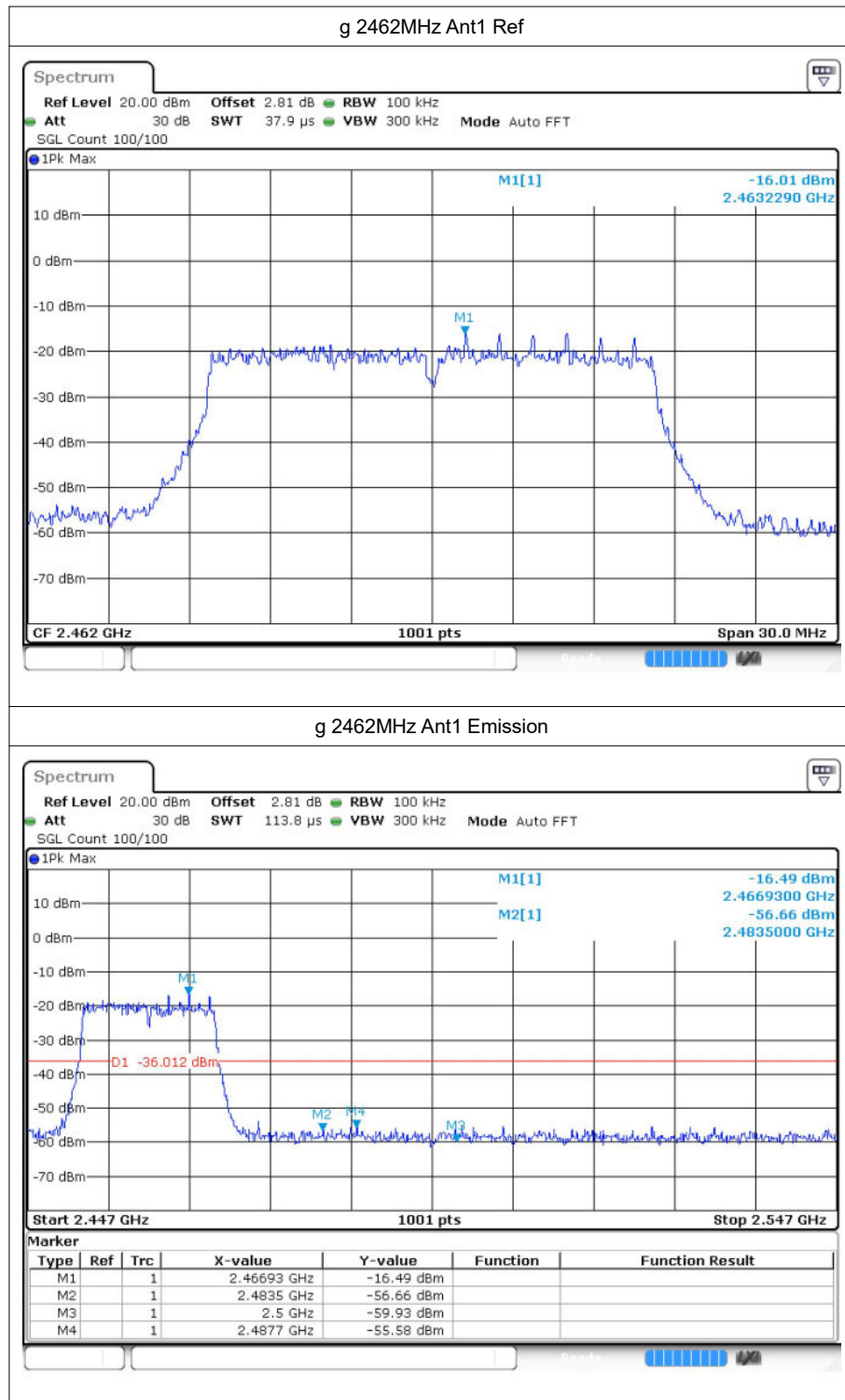
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-47.45	-20	Pass
b	2462	Ant1	-42.7	-20	Pass
g	2412	Ant1	-42.89	-20	Pass
g	2462	Ant1	-39.56	-20	Pass
n20	2412	Ant1	-40.08	-20	Pass
n20	2462	Ant1	-39.19	-20	Pass
n40	2422	Ant1	-40.03	-20	Pass
n40	2452	Ant1	-37.34	-20	Pass

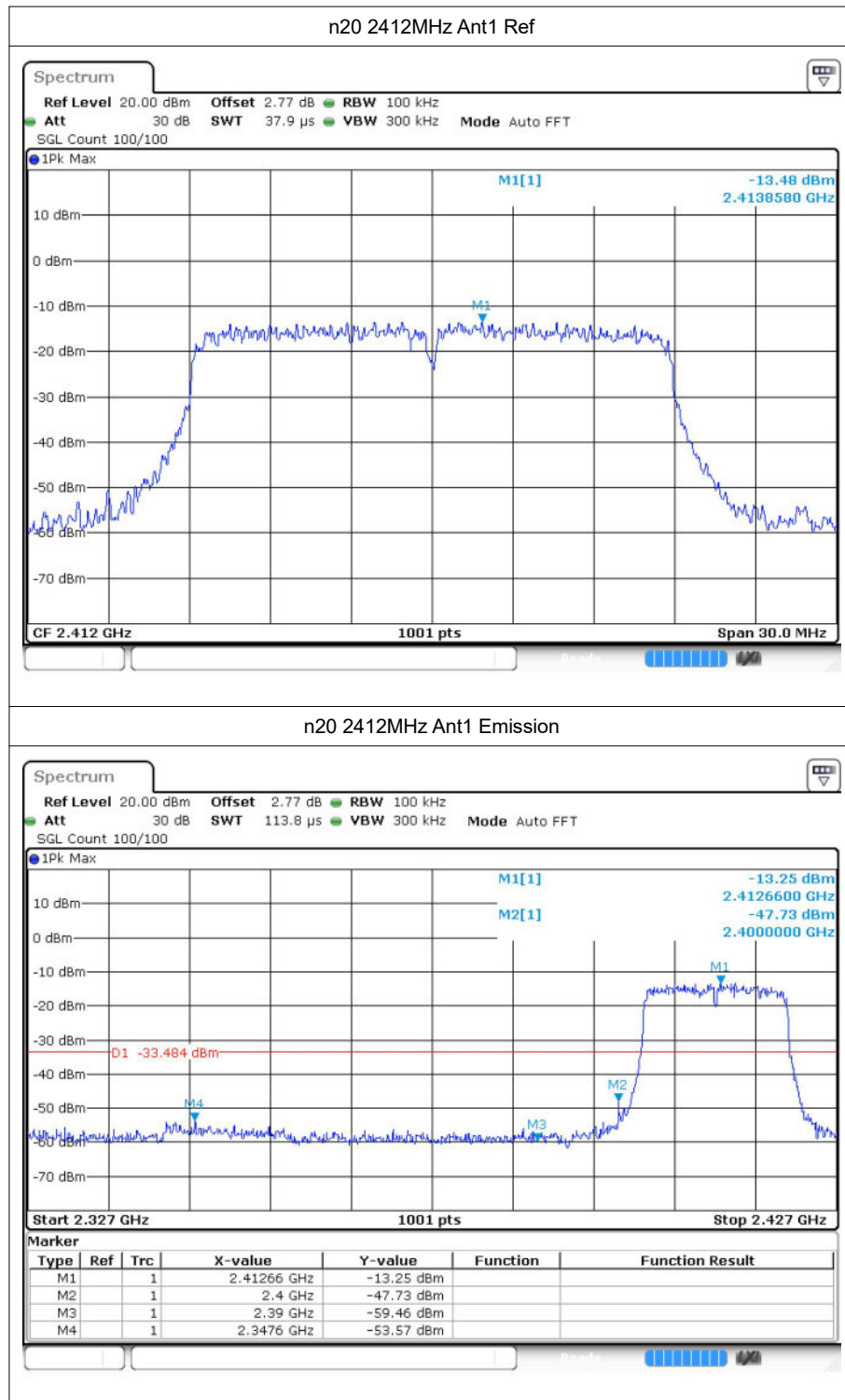
5.2 Test Graphs

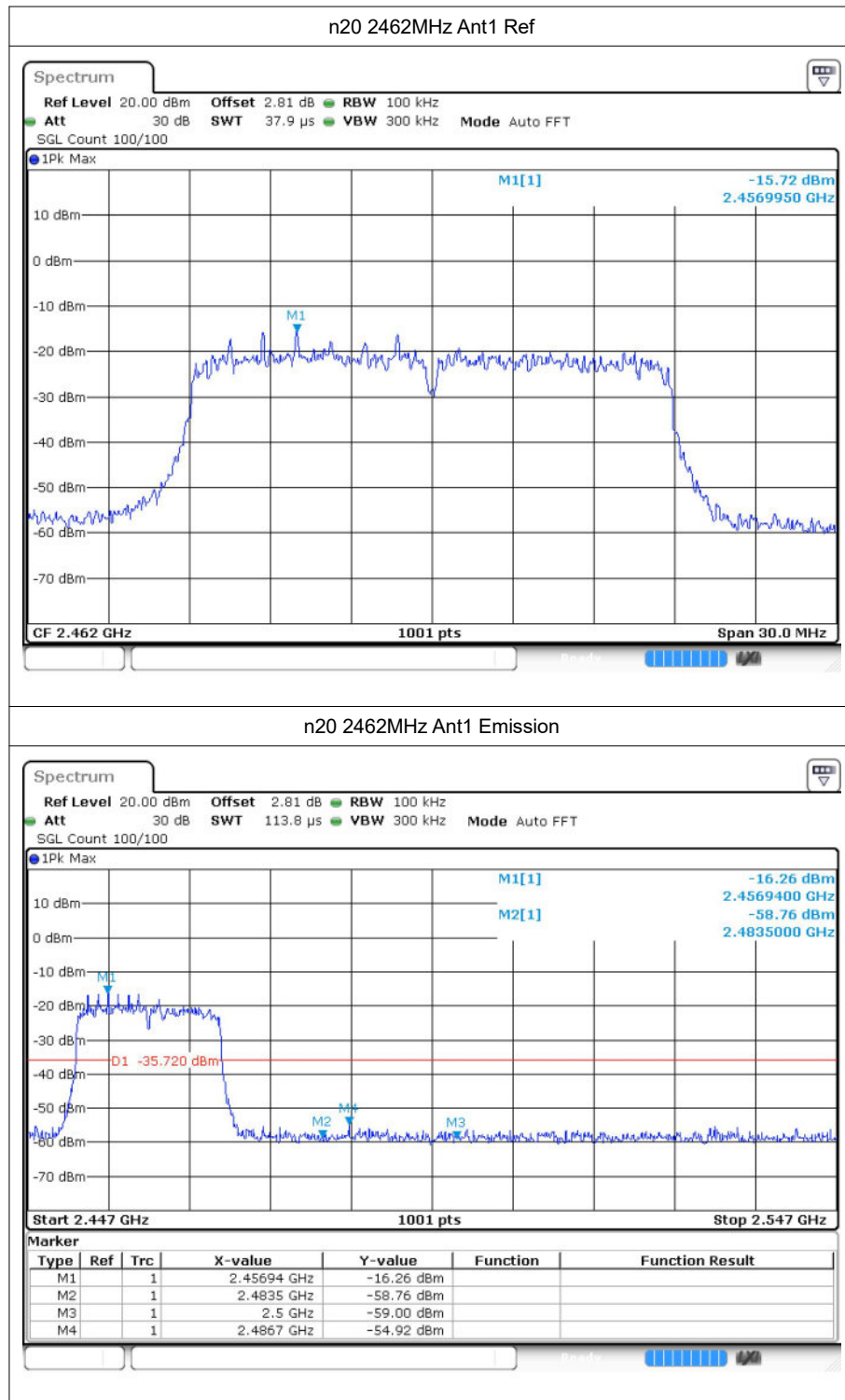


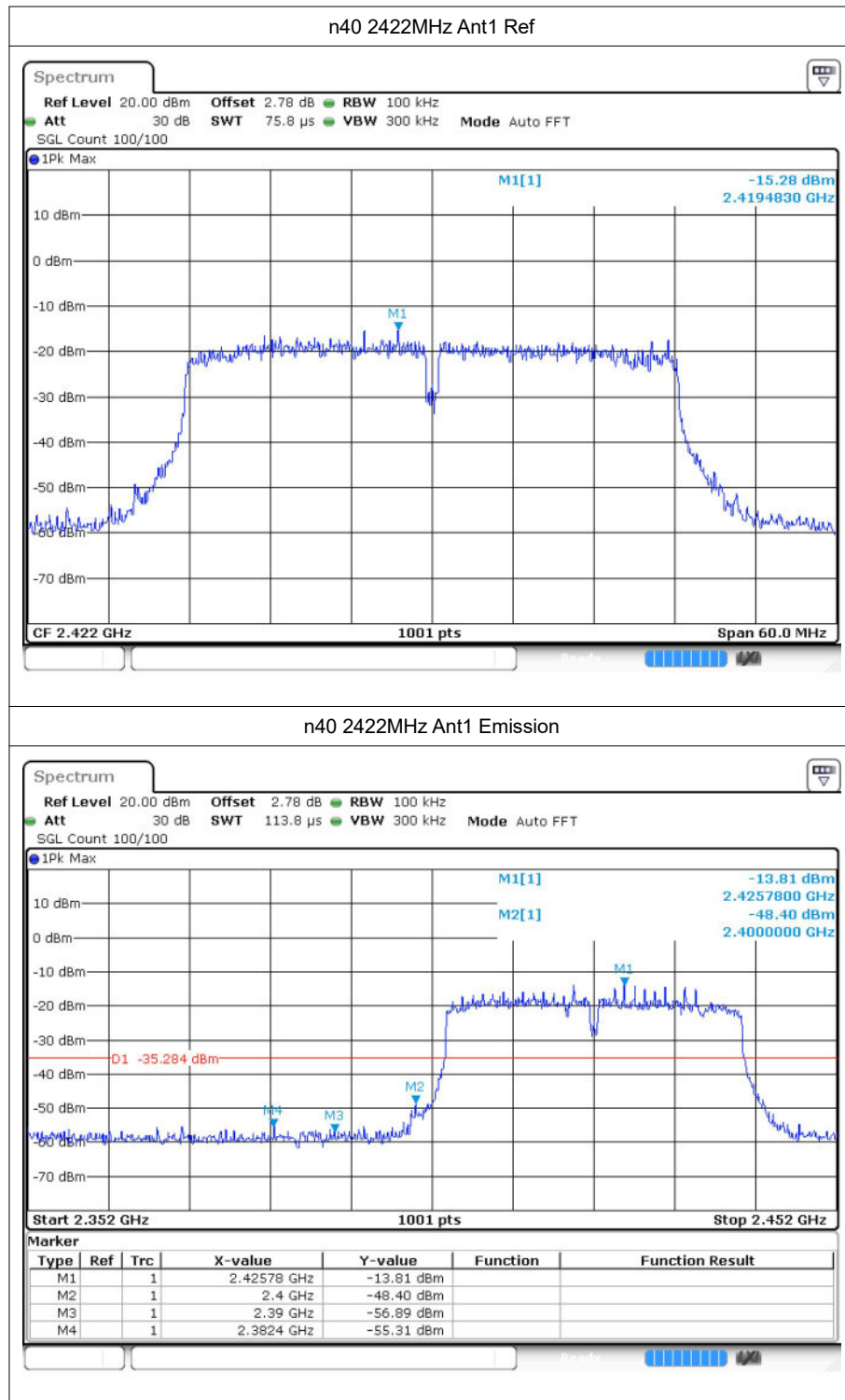


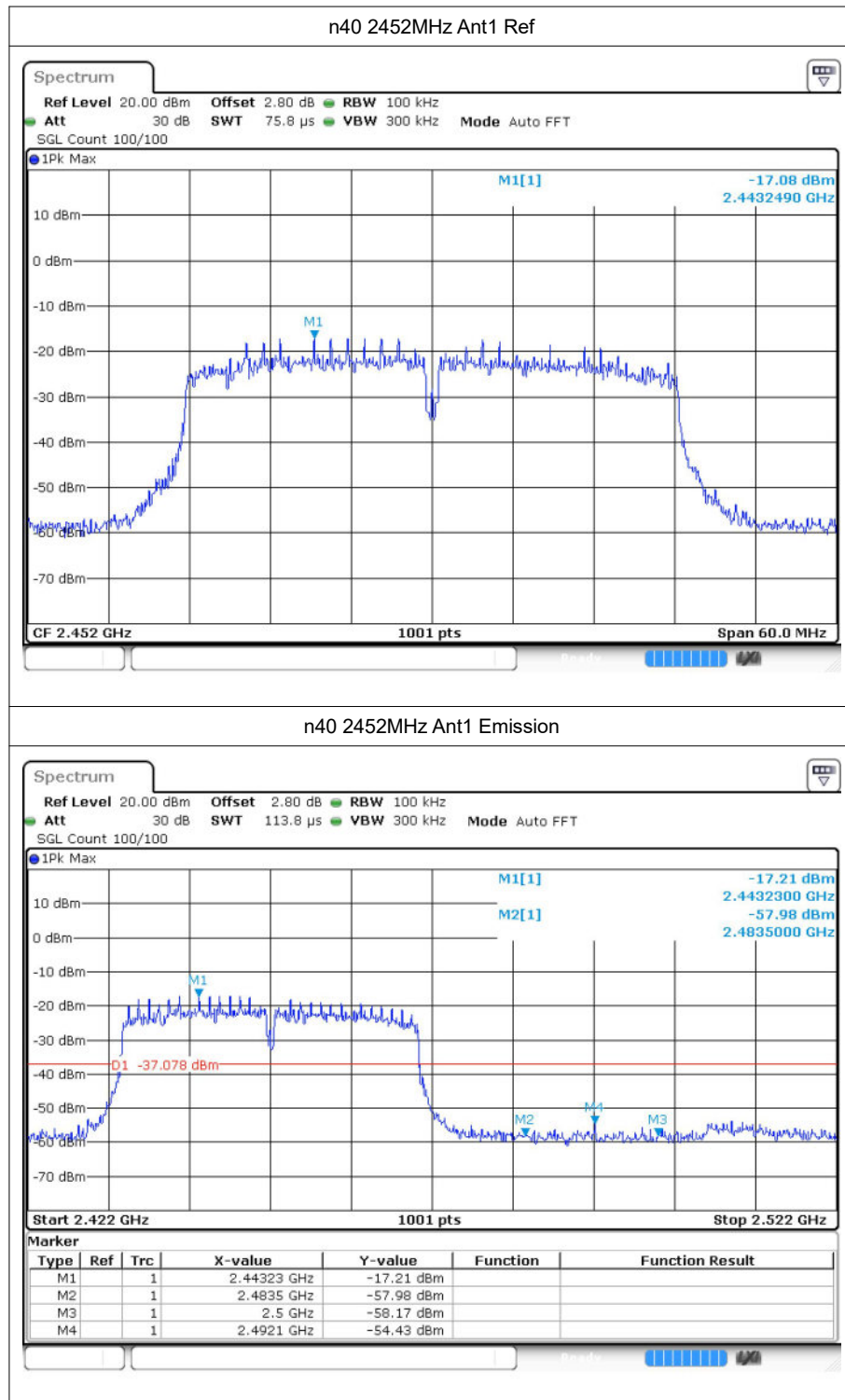












6 Conducted RF Spurious Emission

6.1 Test Result

Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-35.17	-20	Pass
b	2437	Ant1	-31.93	-20	Pass
b	2462	Ant1	-29.35	-20	Pass
g	2412	Ant1	-29.92	-20	Pass
g	2437	Ant1	-25.76	-20	Pass
g	2462	Ant1	-22.75	-20	Pass
n20	2412	Ant1	-31.89	-20	Pass
n20	2437	Ant1	-25.55	-20	Pass
n20	2462	Ant1	-23.41	-20	Pass
n40	2422	Ant1	-27.58	-20	Pass
n40	2437	Ant1	-25.52	-20	Pass
n40	2452	Ant1	-22.9	-20	Pass

6.2 Test Graphs

