



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Action Camera

Trade Mark: SJCAM

Test Model: C400

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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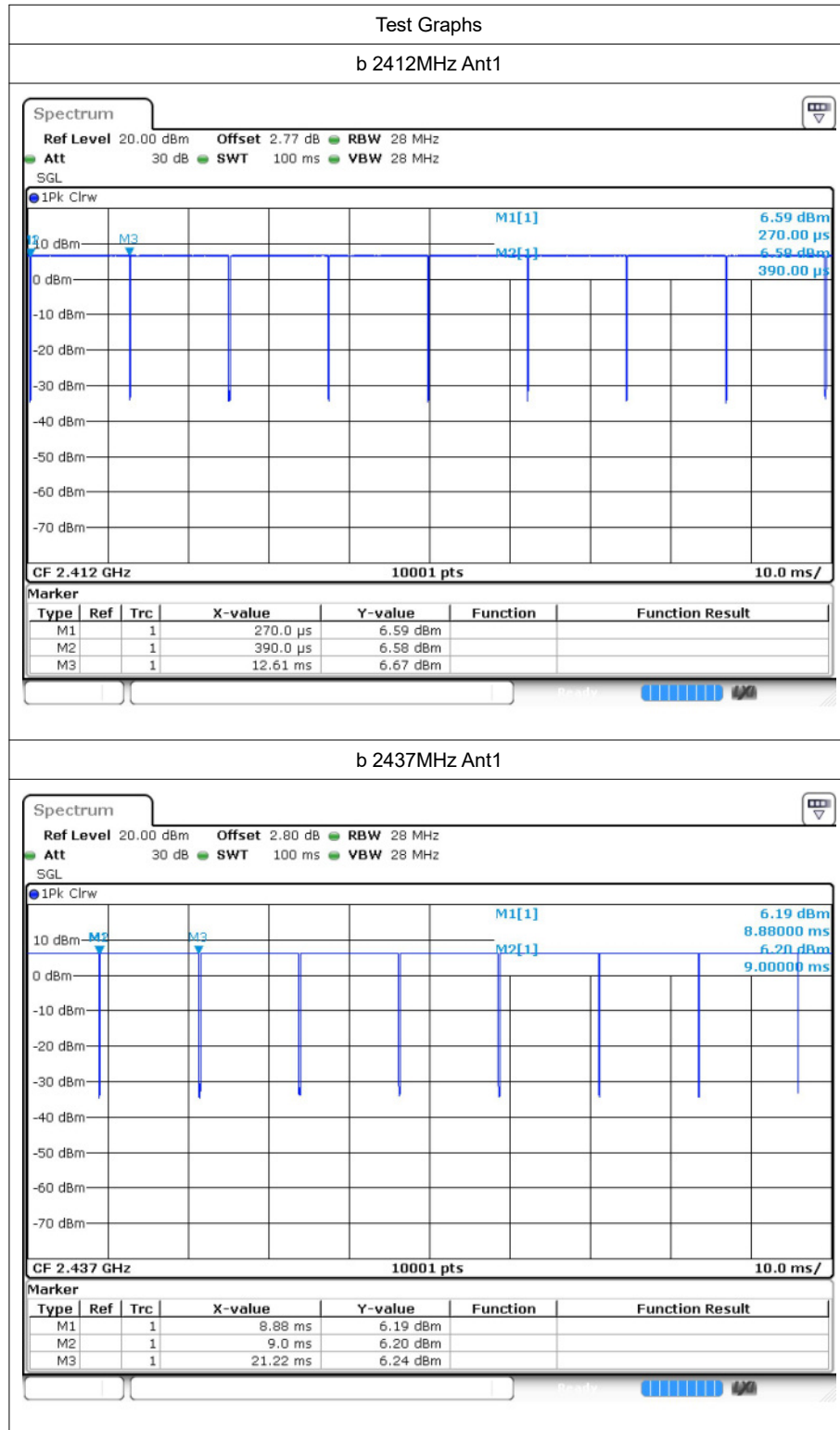


1 Duty Cycle

1.1 Test Result

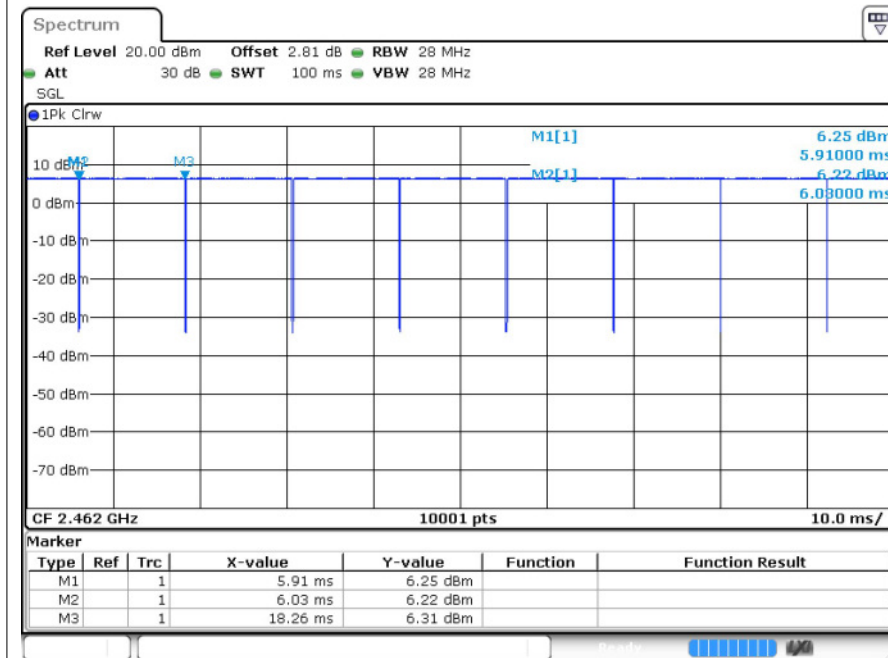
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor	1/T (kHz)
b	2412	Ant1	98.84	0.05	0.08
b	2437	Ant1	98.64	0.06	0.08
b	2462	Ant1	99.23	0.03	0.08
g	2412	Ant1	92.53	0.34	0.49
g	2437	Ant1	93.15	0.31	0.49
g	2462	Ant1	95.47	0.2	0.49
n20	2412	Ant1	92.22	0.35	0.53
n20	2437	Ant1	92.21	0.35	0.53
n20	2462	Ant1	93.95	0.27	0.53
n40	2422	Ant1	89.99	0.46	1.08
n40	2437	Ant1	83.08	0.8	1.08
n40	2452	Ant1	80.53	0.94	1.08
ax20	2412	Ant1	89.92	0.46	0.68
ax20	2437	Ant1	88.92	0.51	0.69
ax20	2462	Ant1	89.56	0.48	0.68
ax40	2422	Ant1	87.05	0.6	1.32
ax40	2437	Ant1	81.71	0.88	1.32
ax40	2452	Ant1	87.67	0.57	1.32

1.2 Test Graphs

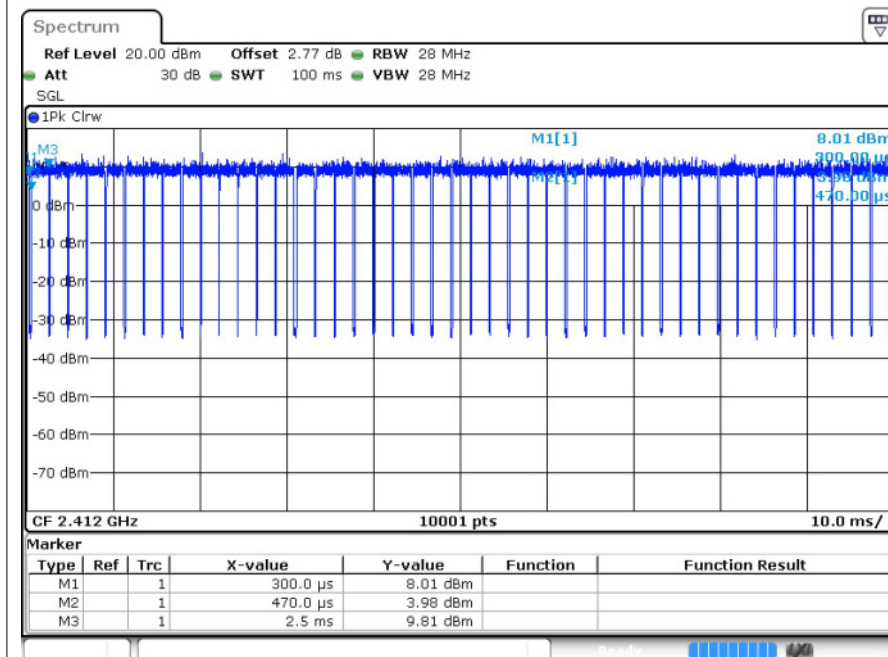


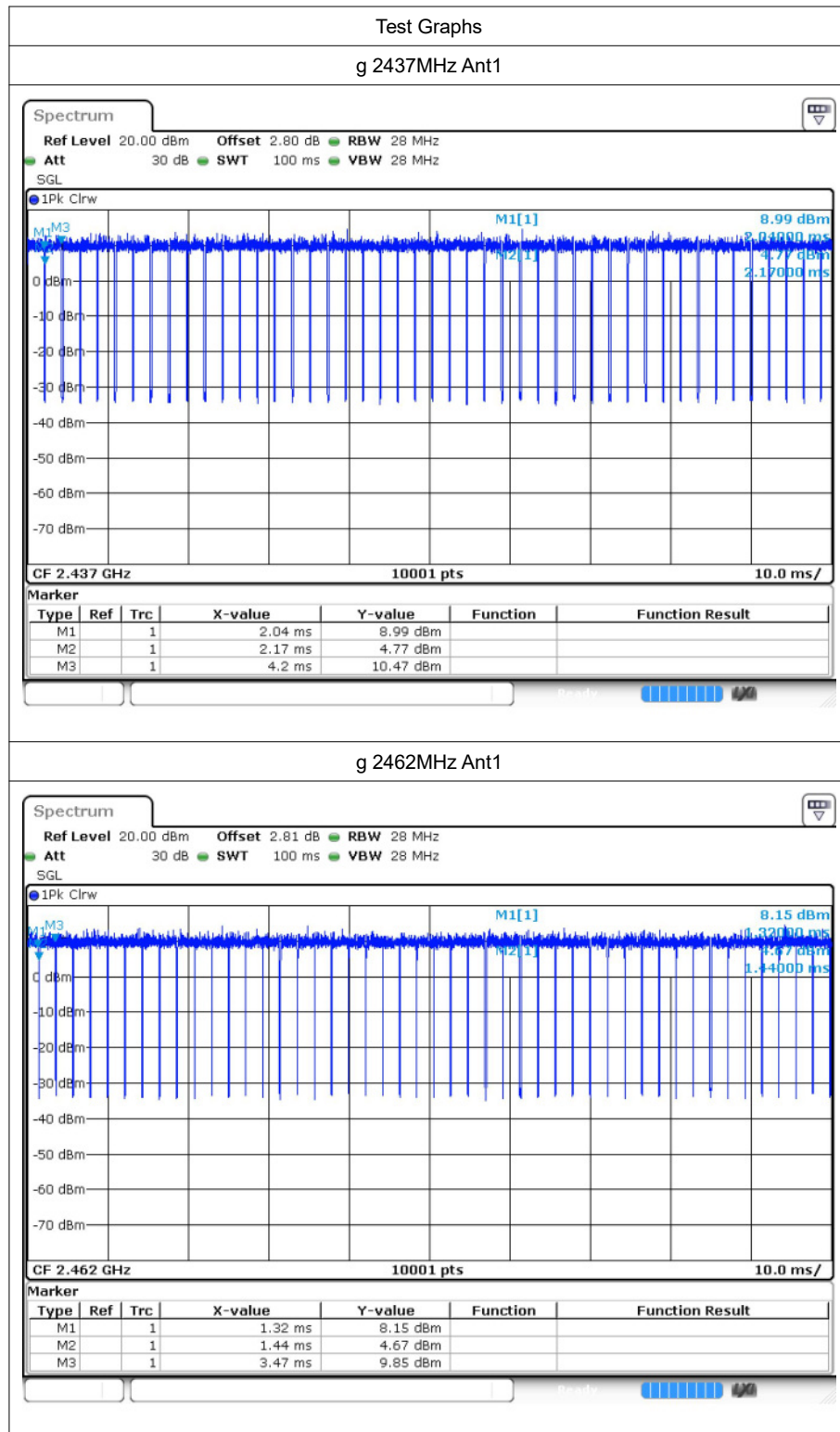
Test Graphs

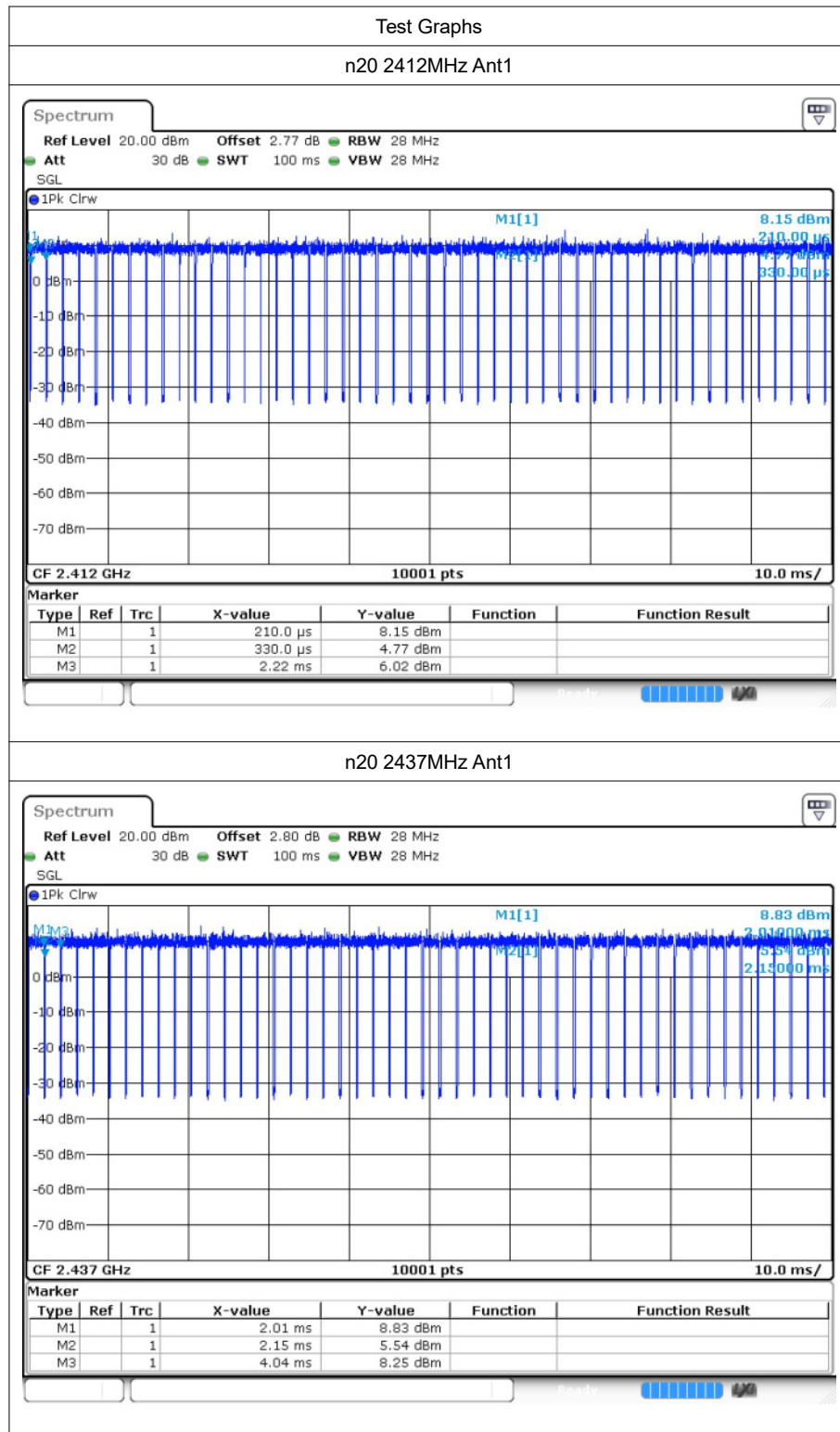
b 2462MHz Ant1

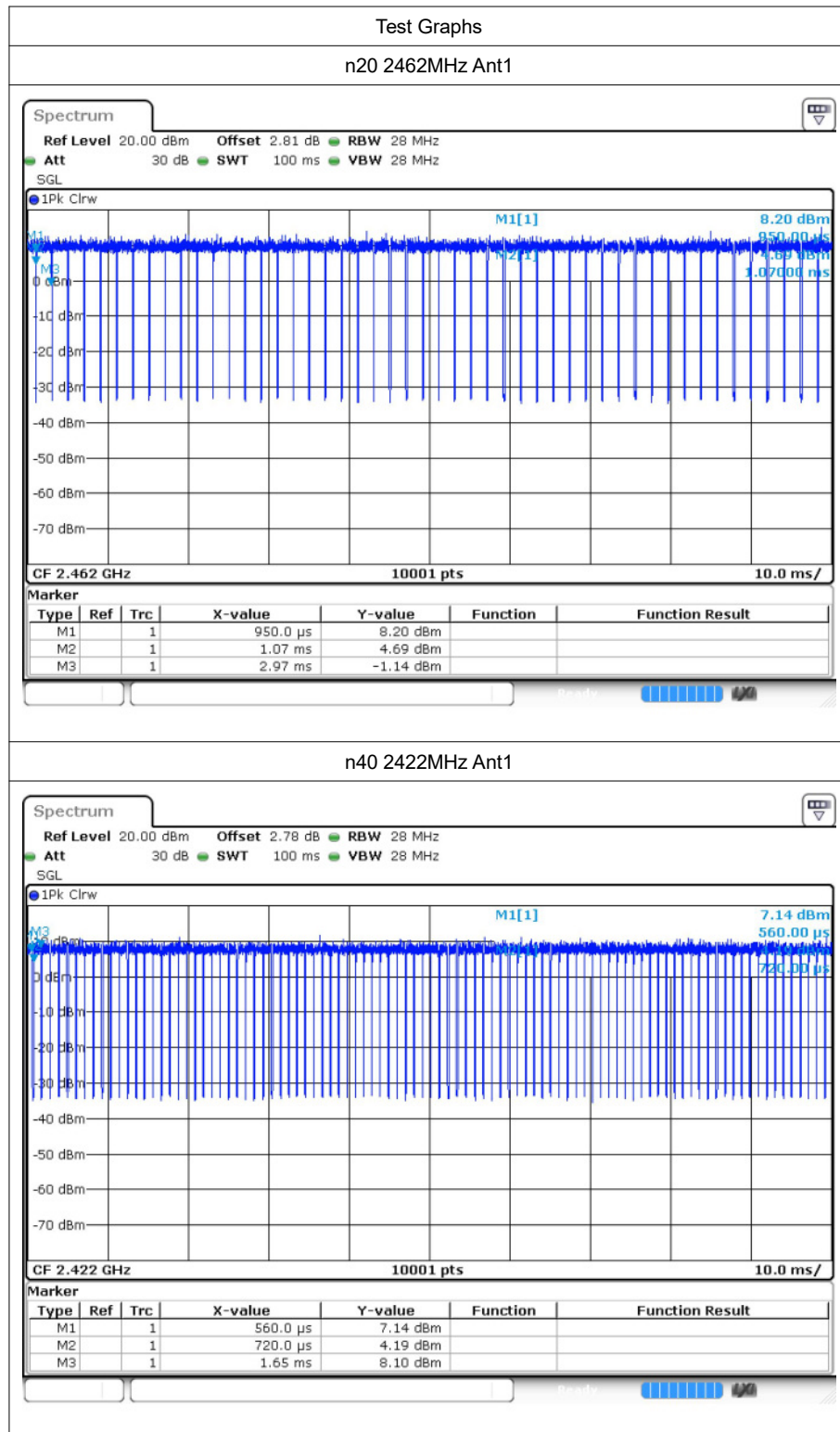


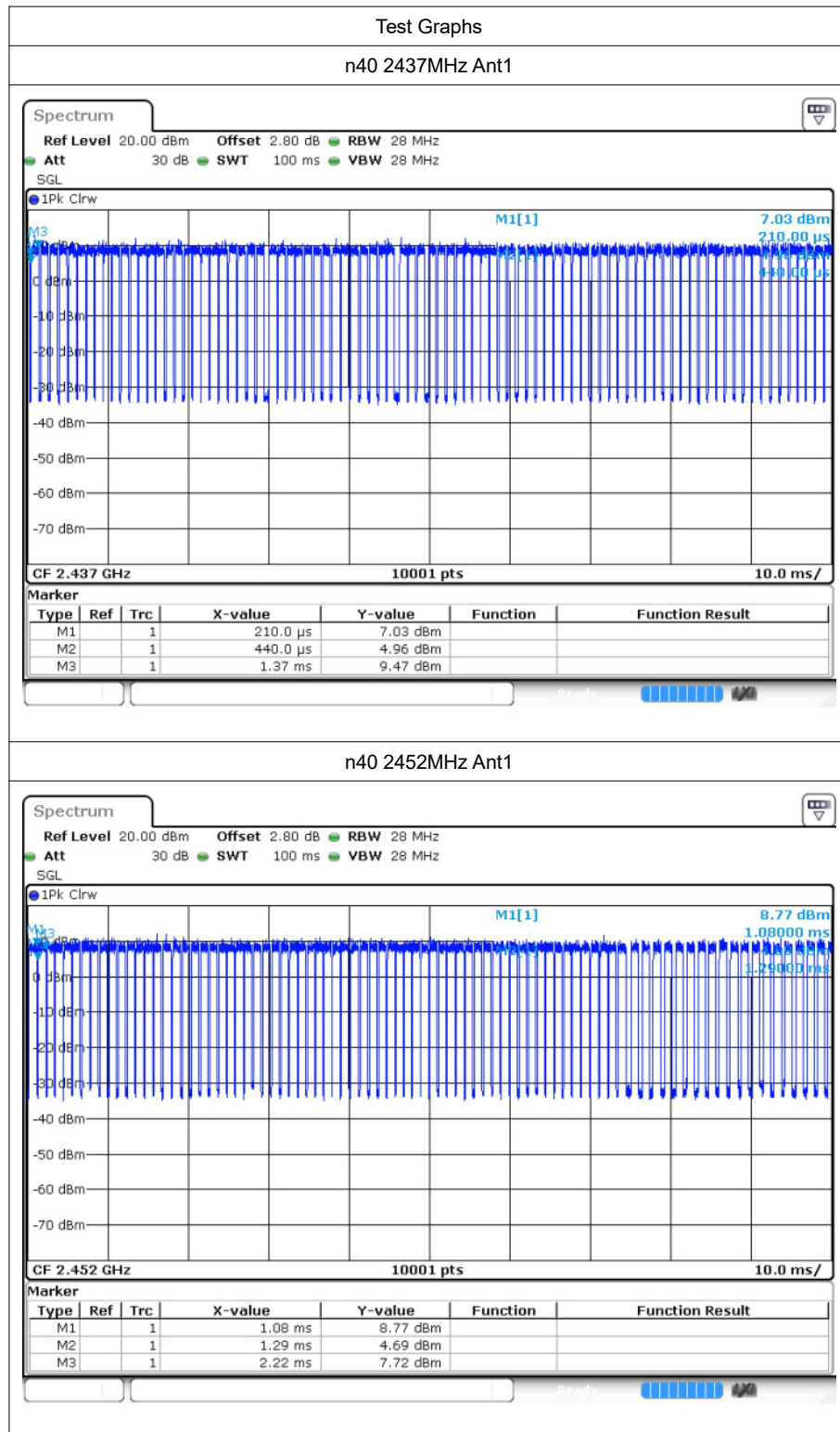
g 2412MHz Ant1

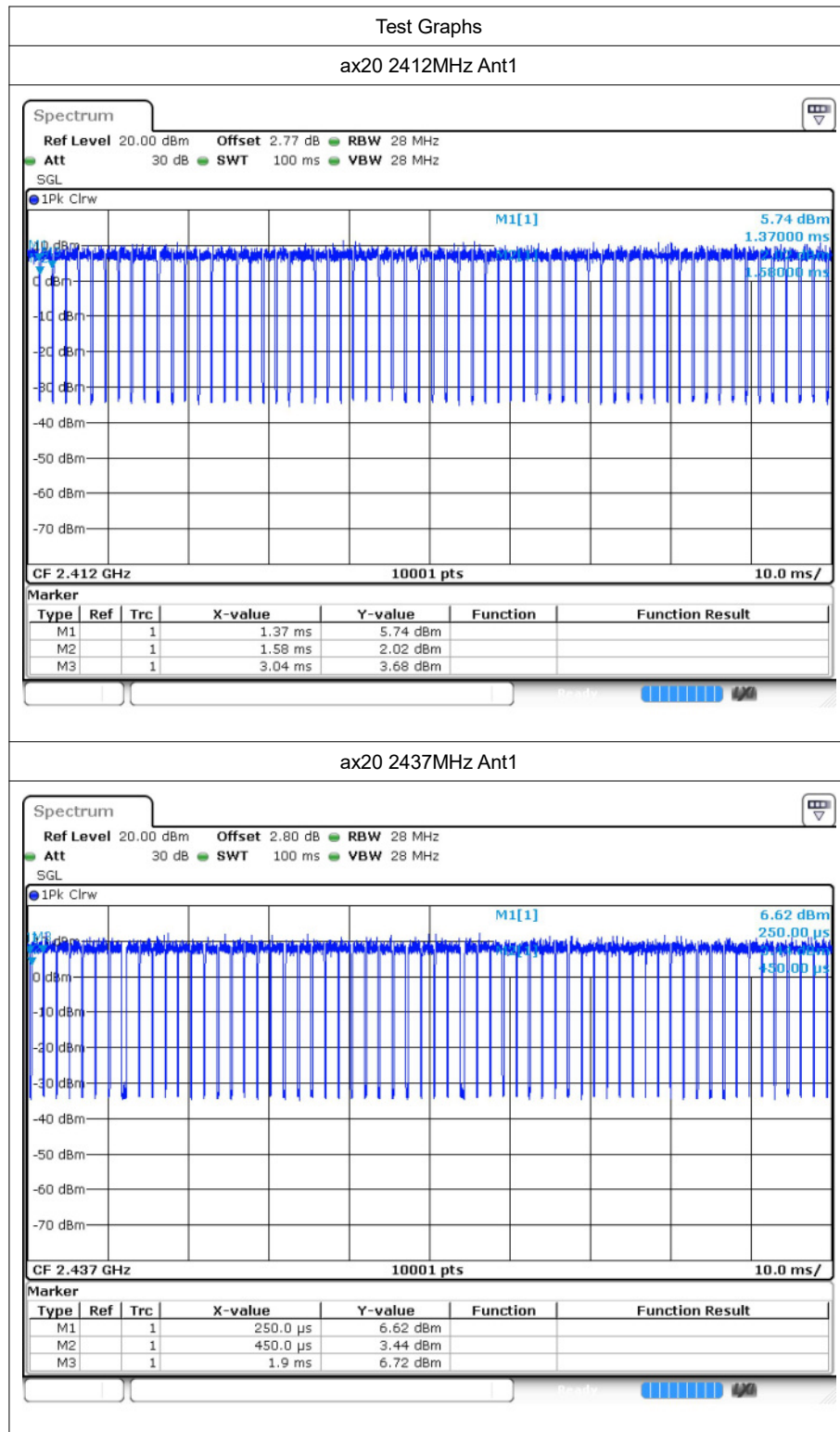


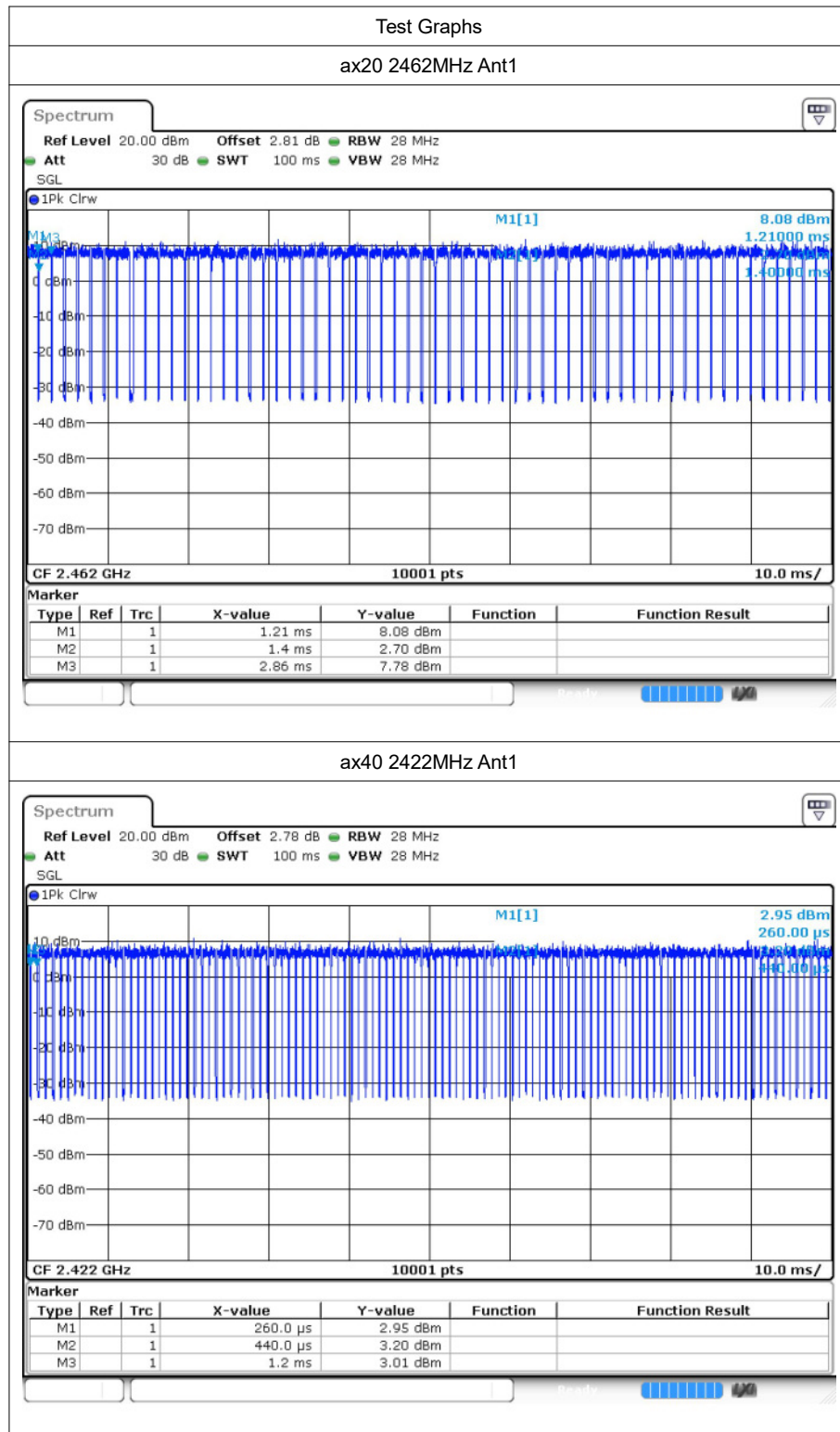


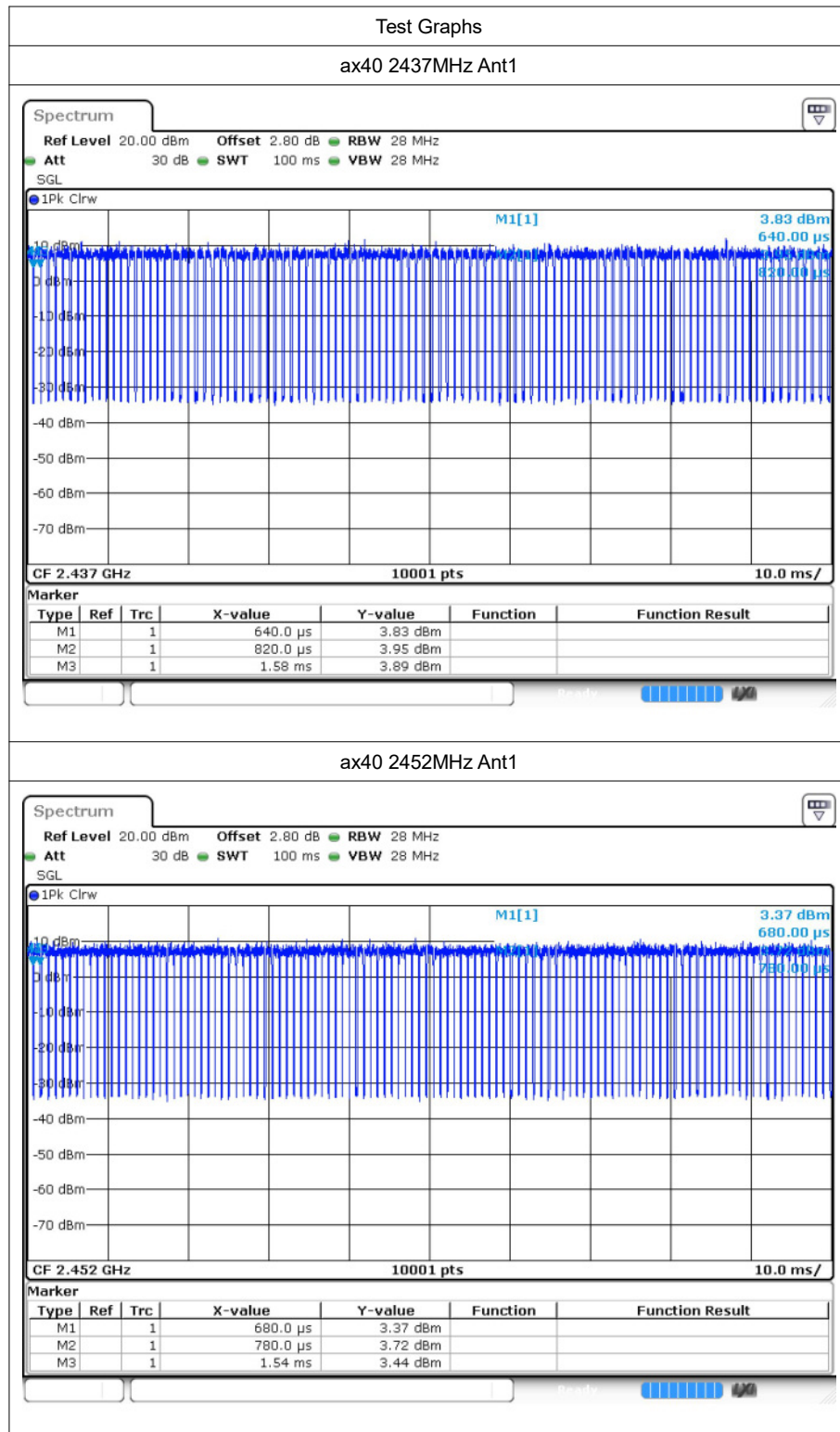












2 Maximum Conducted Output Power

2.1 Test Result

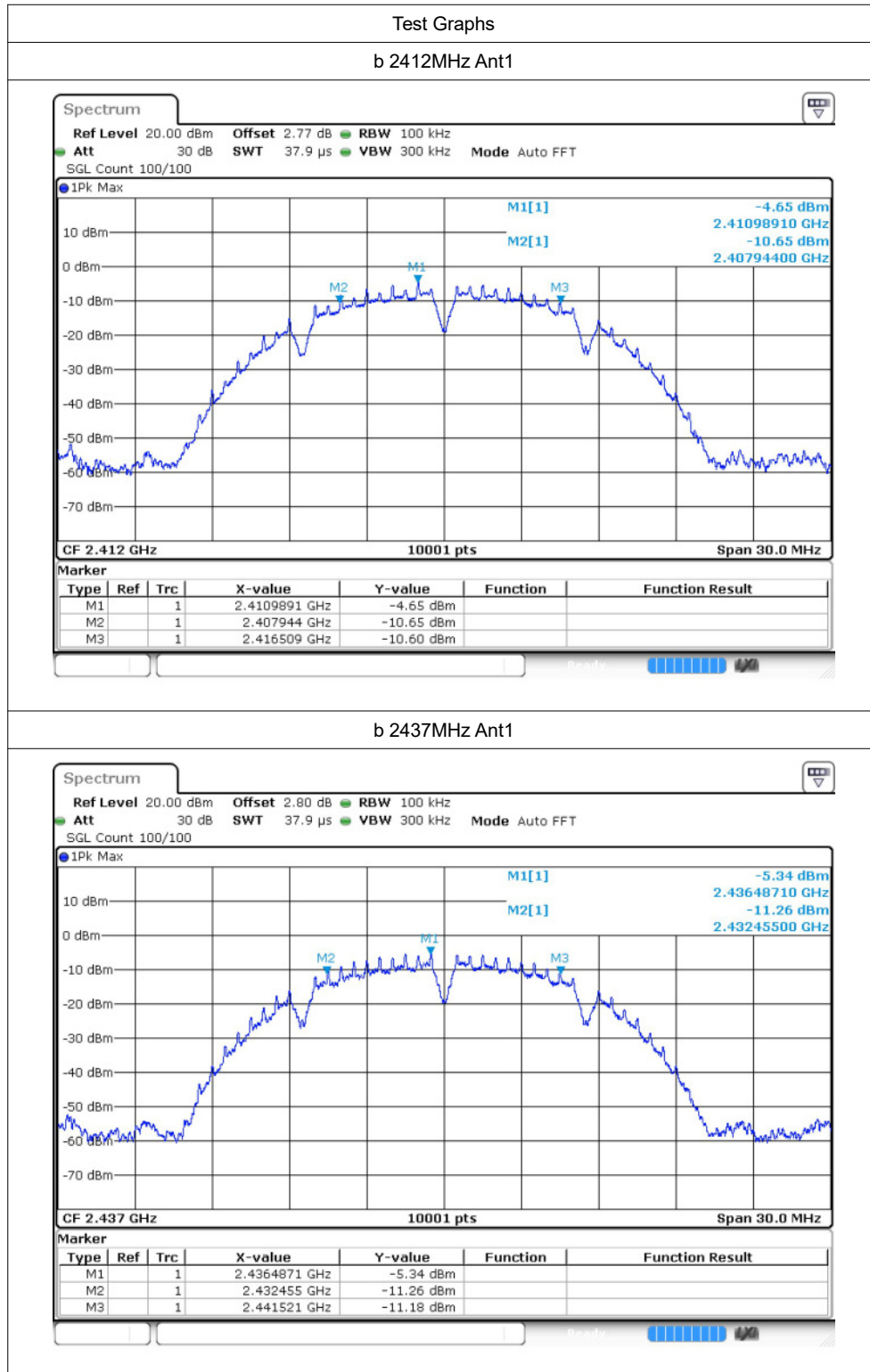
Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant1	8.02	30	Pass
b	2437	Ant1	7.51	30	Pass
b	2462	Ant1	7.63	30	Pass
g	2412	Ant1	7.98	30	Pass
g	2437	Ant1	8.7	30	Pass
g	2462	Ant1	8.66	30	Pass
n20	2412	Ant1	7.81	30	Pass
n20	2437	Ant1	8.7	30	Pass
n20	2462	Ant1	8.55	30	Pass
n40	2422	Ant1	8.32	30	Pass
n40	2437	Ant1	8.12	30	Pass
n40	2452	Ant1	8.83	30	Pass
ax20	2412	Ant1	7.85	30	Pass
ax20	2437	Ant1	8.62	30	Pass
ax20	2462	Ant1	8.52	30	Pass
ax40	2422	Ant1	7.89	30	Pass
ax40	2437	Ant1	8.68	30	Pass
ax40	2452	Ant1	8.44	30	Pass

3 -6dB Bandwidth

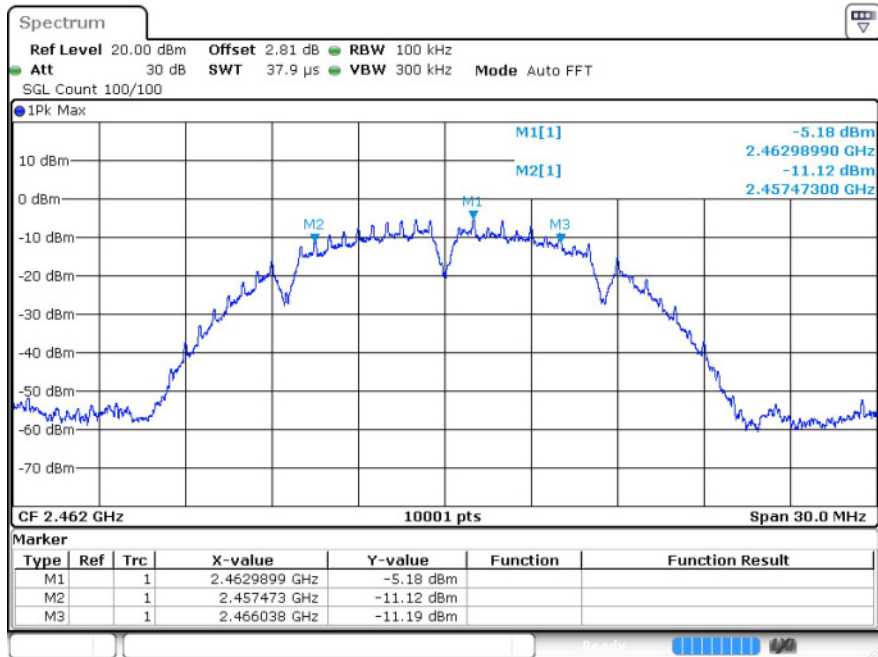
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	8.565	0.5	Pass
b	2437	Ant1	9.066	0.5	Pass
b	2462	Ant1	8.565	0.5	Pass
g	2412	Ant1	16.359	0.5	Pass
g	2437	Ant1	15.885	0.5	Pass
g	2462	Ant1	16.359	0.5	Pass
n20	2412	Ant1	17.598	0.5	Pass
n20	2437	Ant1	16.314	0.5	Pass
n20	2462	Ant1	17.604	0.5	Pass
n40	2422	Ant1	36.042	0.5	Pass
n40	2437	Ant1	35.46	0.5	Pass
n40	2452	Ant1	36.33	0.5	Pass
ax20	2412	Ant1	19.023	0.5	Pass
ax20	2437	Ant1	18.66	0.5	Pass
ax20	2462	Ant1	18.894	0.5	Pass
ax40	2422	Ant1	34.068	0.5	Pass
ax40	2437	Ant1	33.834	0.5	Pass
ax40	2452	Ant1	35.796	0.5	Pass

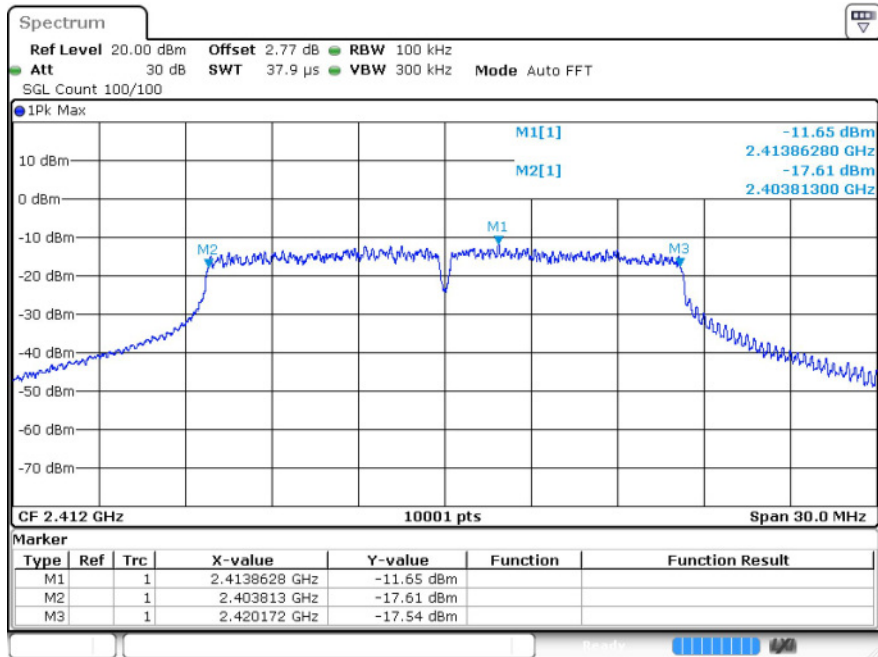
3.2 Test Graphs



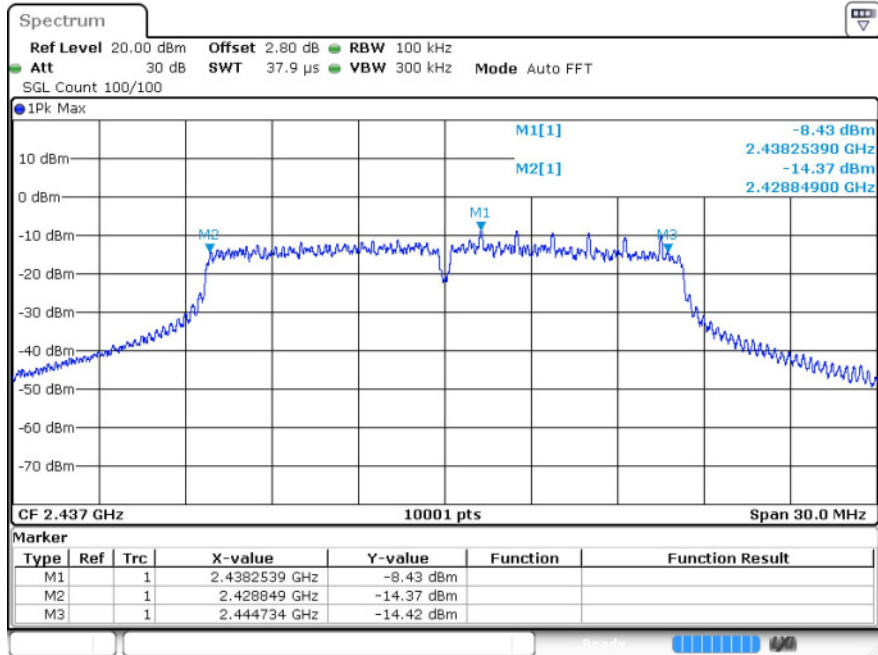
b 2462MHz Ant1



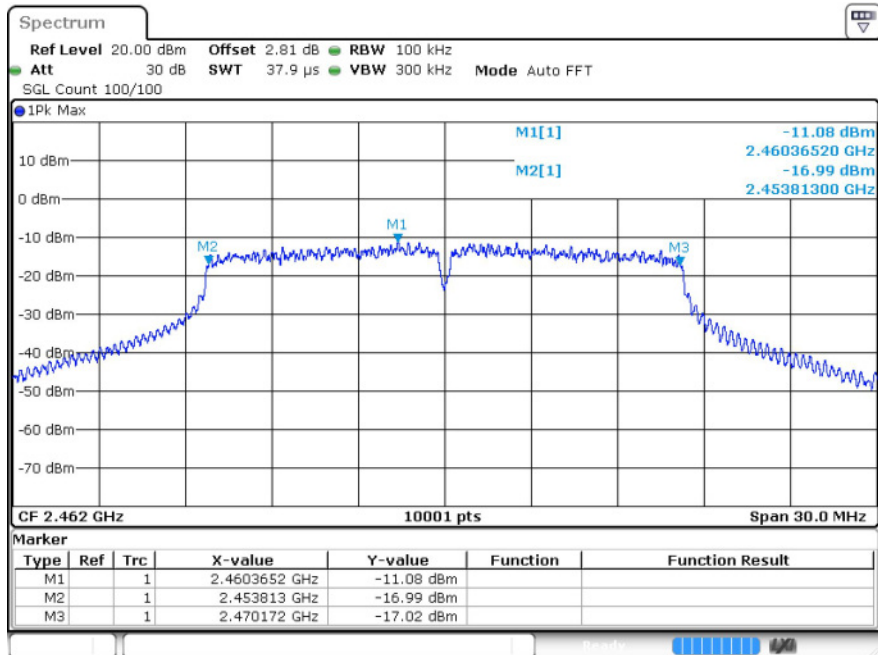
g 2412MHz Ant1

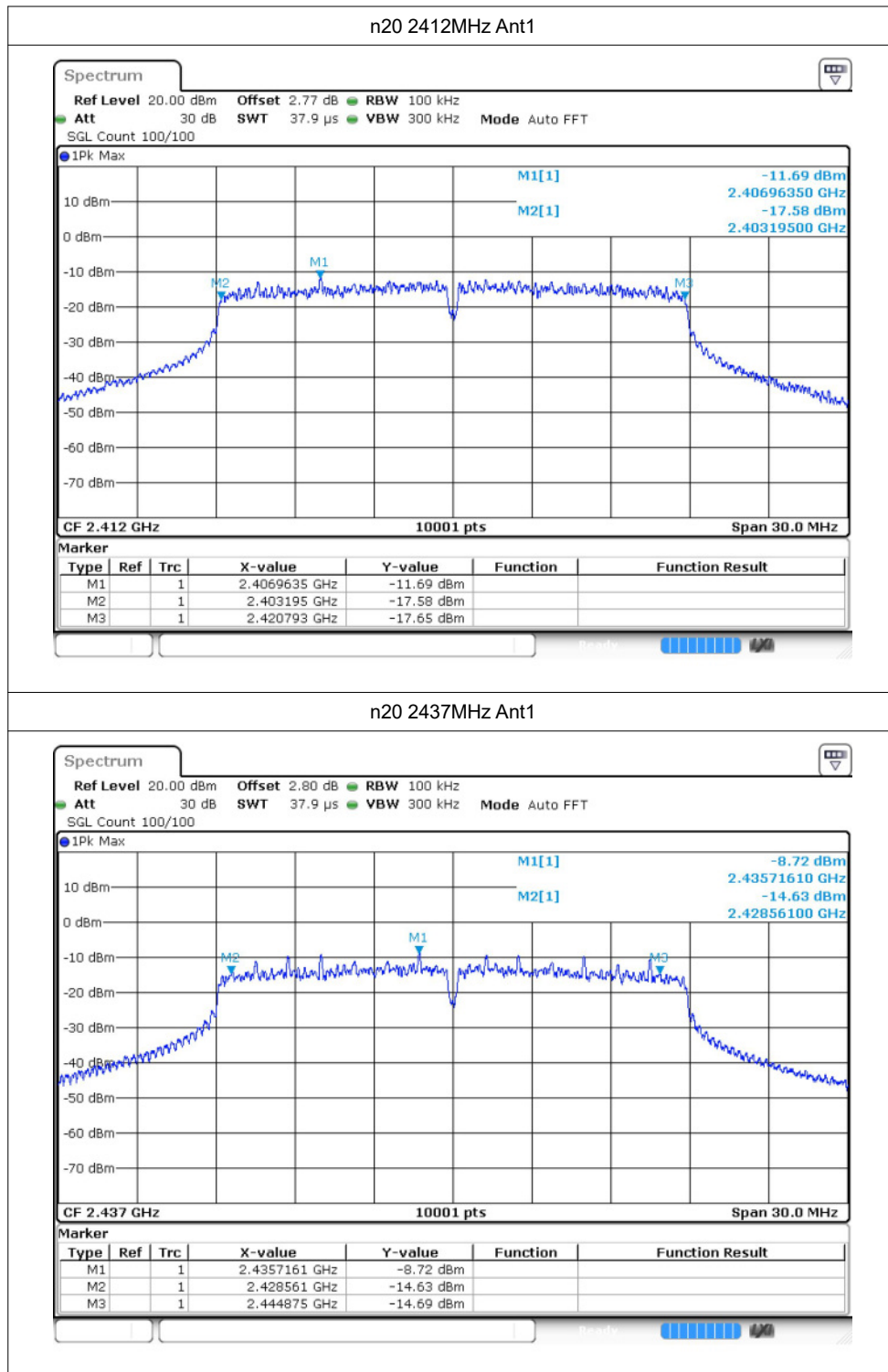


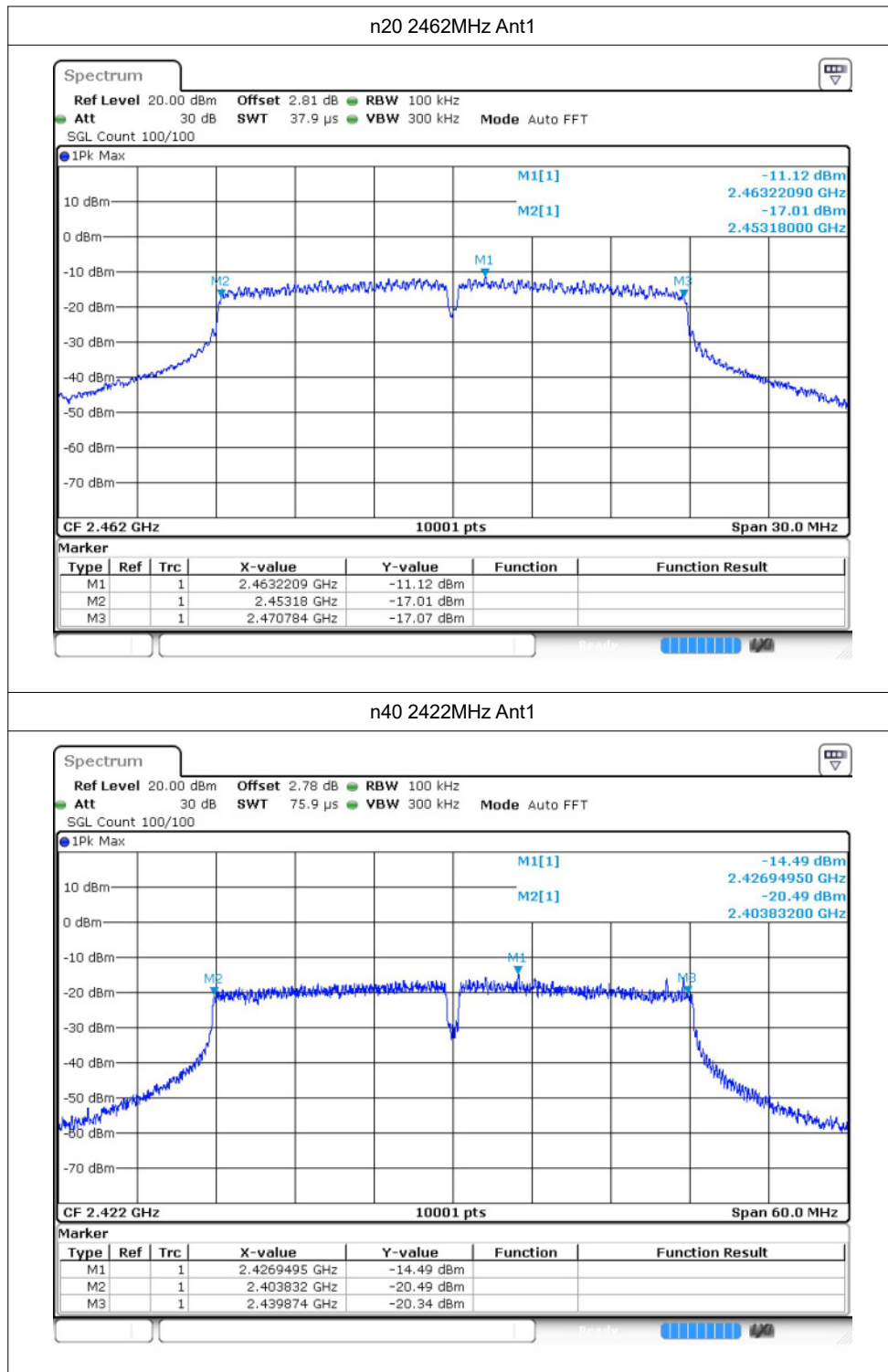
g 2437MHz Ant1



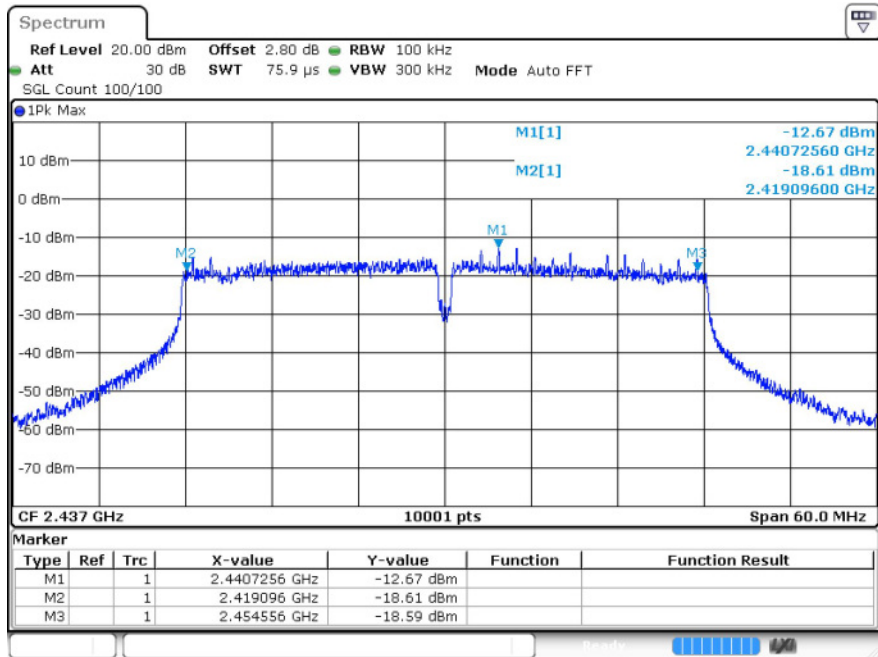
g 2462MHz Ant1



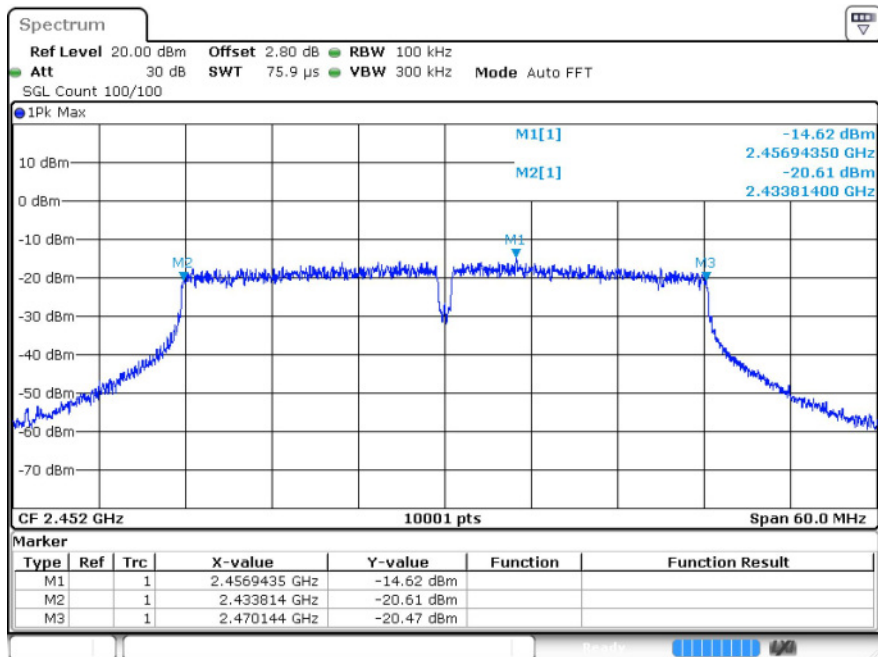




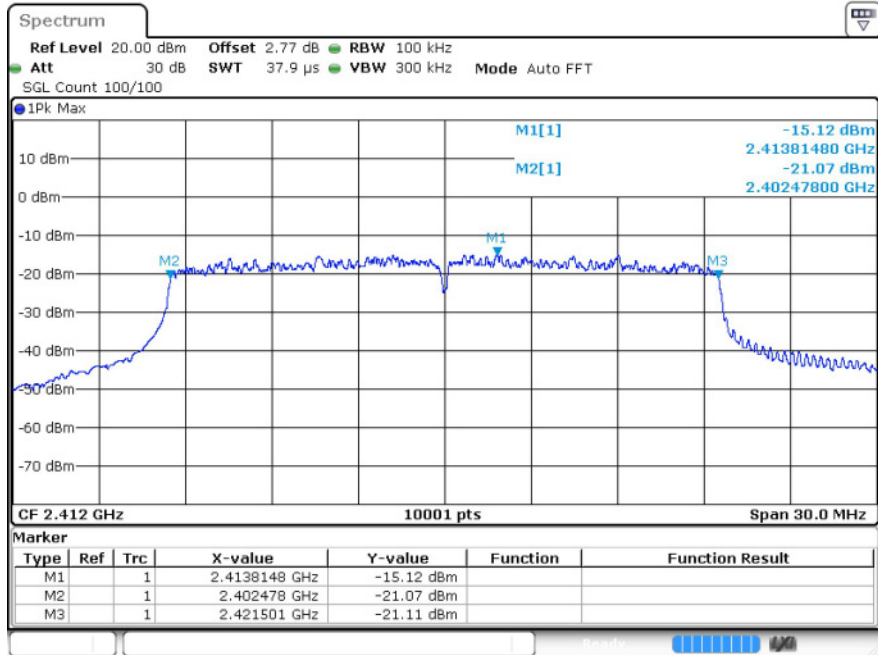
n40 2437MHz Ant1



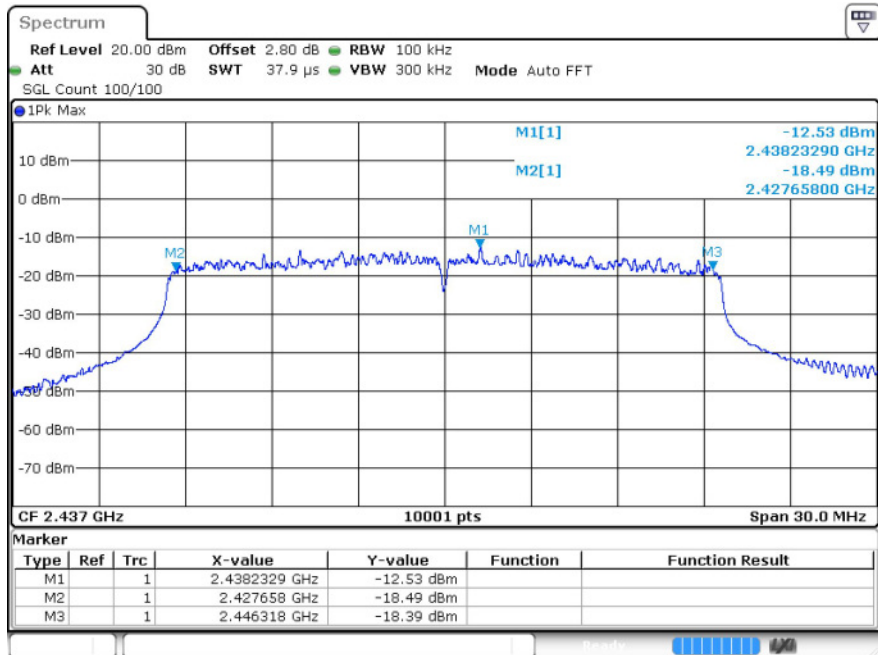
n40 2452MHz Ant1

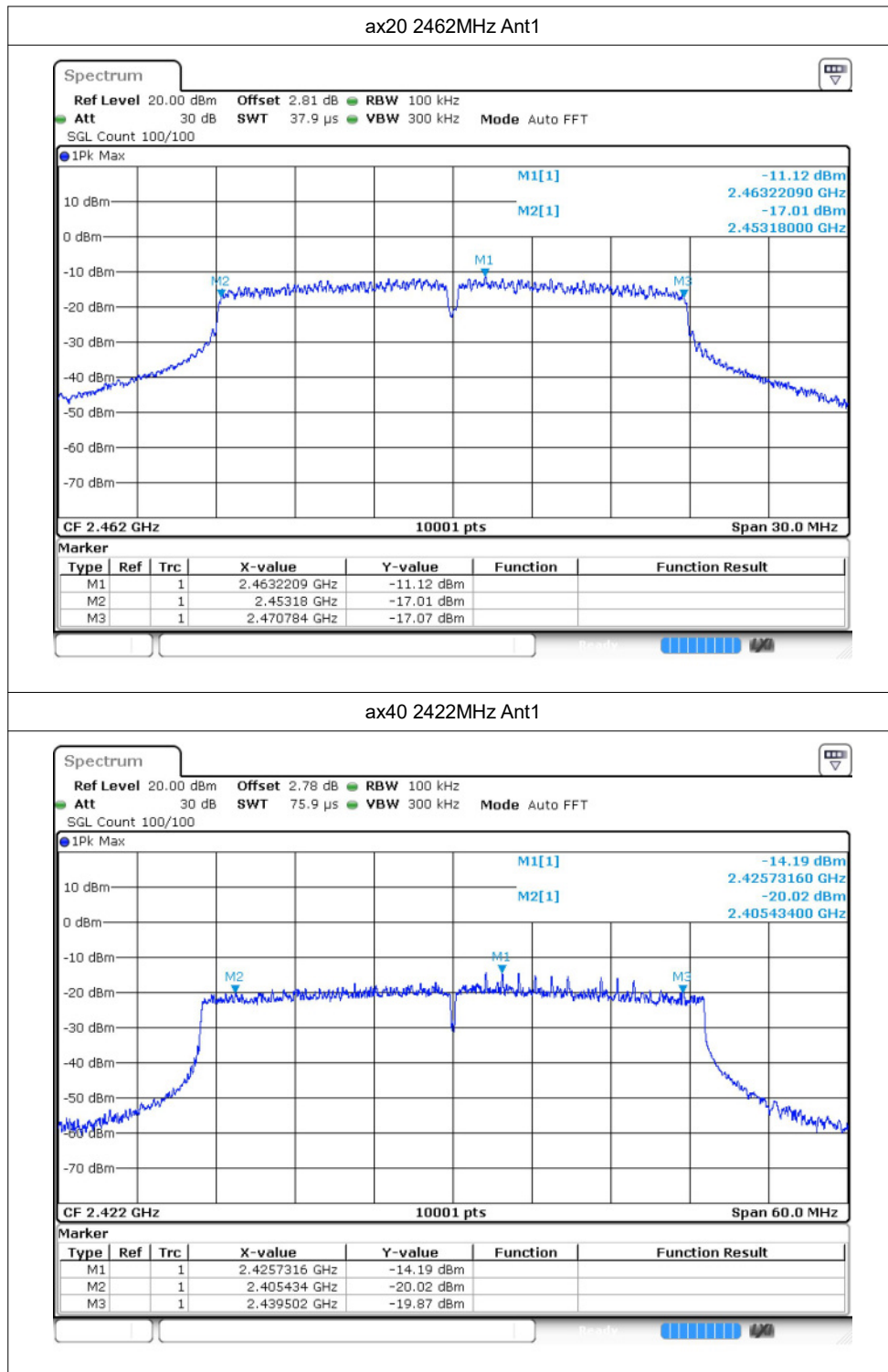


ax20 2412MHz Ant1

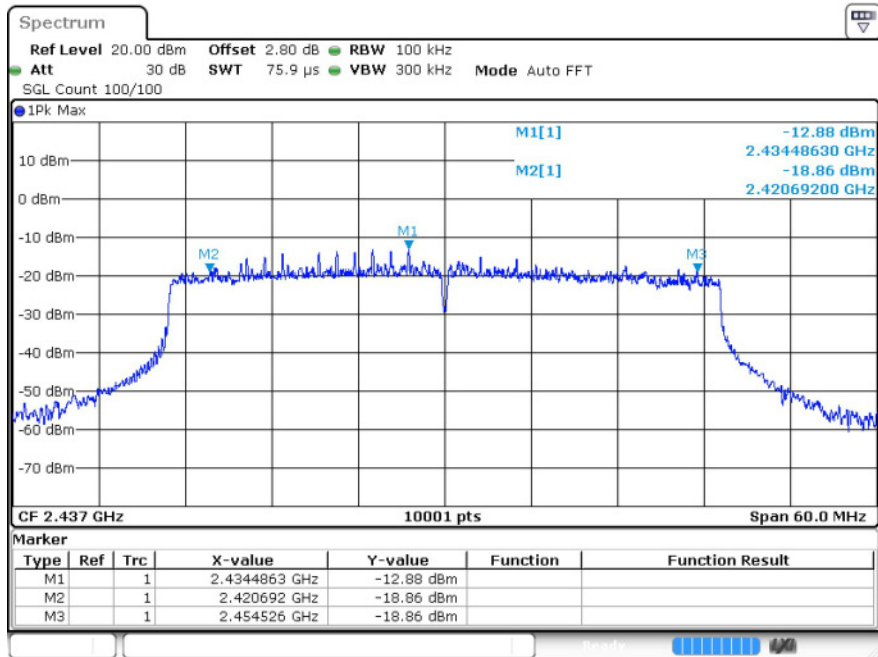


ax20 2437MHz Ant1

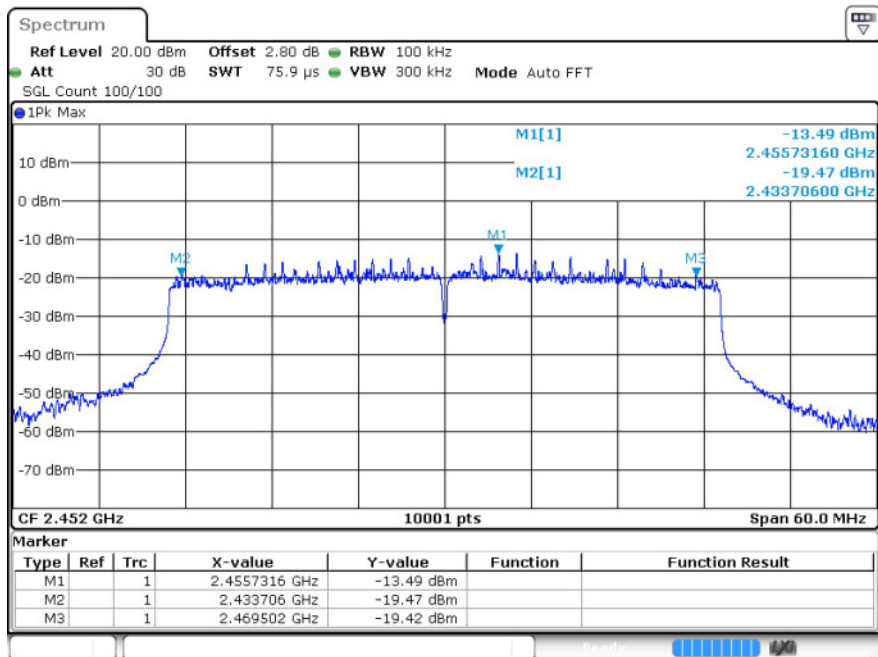




ax40 2437MHz Ant1



ax40 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	-18.98	≤8	Pass
b	2437	Ant1	-19	≤8	Pass
b	2462	Ant1	-18.76	≤8	Pass
g	2412	Ant1	-22.83	≤8	Pass
g	2437	Ant1	-21.96	≤8	Pass
g	2462	Ant1	-21.61	≤8	Pass
n20	2412	Ant1	-22.13	≤8	Pass
n20	2437	Ant1	-21.77	≤8	Pass
n20	2462	Ant1	-21.93	≤8	Pass
n40	2422	Ant1	-26.52	≤8	Pass
n40	2437	Ant1	-25.73	≤8	Pass
n40	2452	Ant1	-26.57	≤8	Pass
ax20	2412	Ant1	-13.47	≤8	Pass
ax20	2437	Ant1	-10.77	≤8	Pass
ax20	2462	Ant1	-11.58	≤8	Pass
ax40	2422	Ant1	-16.49	≤8	Pass
ax40	2437	Ant1	-13.08	≤8	Pass
ax40	2452	Ant1	-14.44	≤8	Pass

4.2 Test Graphs

