



Appendix C_Test Data

for 2.4GWIFI

Conducted Measurement

Product Name: All-in-One WorkStation

Trade Mark: AUO Display Plus

Test Model: GA27QTA01.X

Environmental Conditions

Temperature:	24° C
Relative Humidity:	51%
ATM Pressure:	100.0 kPa
Test Engineer:	Simba Huang
Supervised by:	Seal Chen



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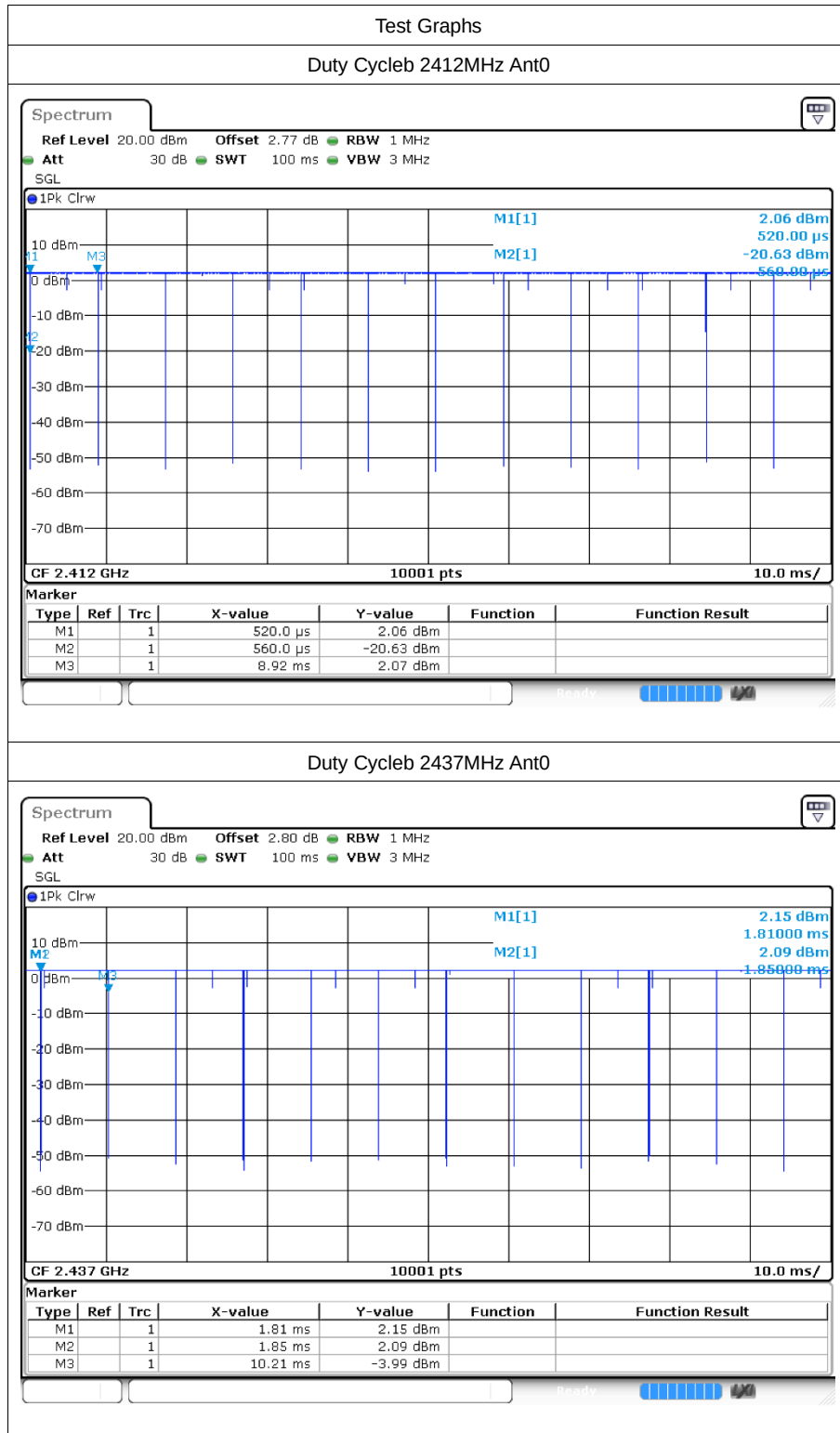
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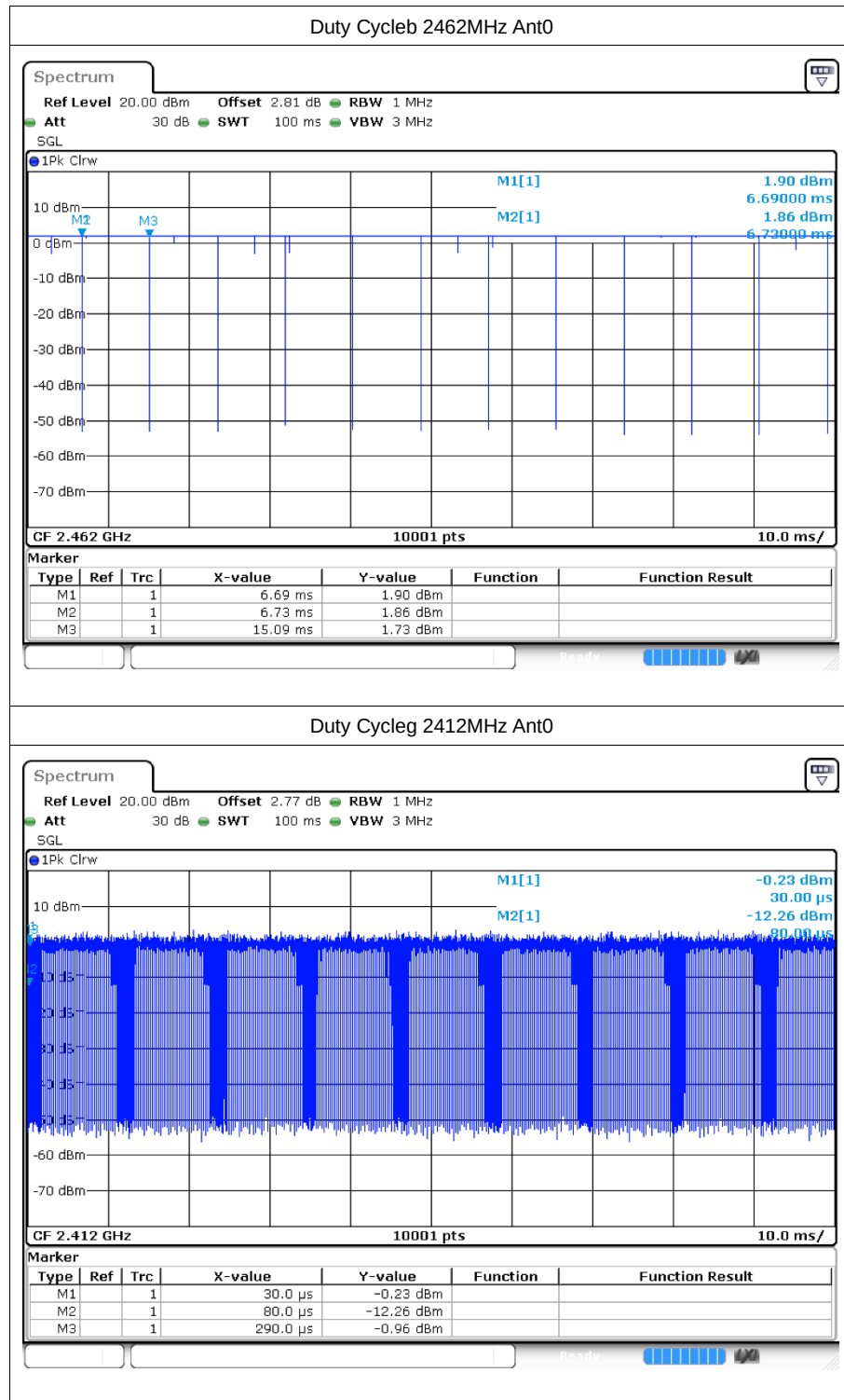
Duty Cycle

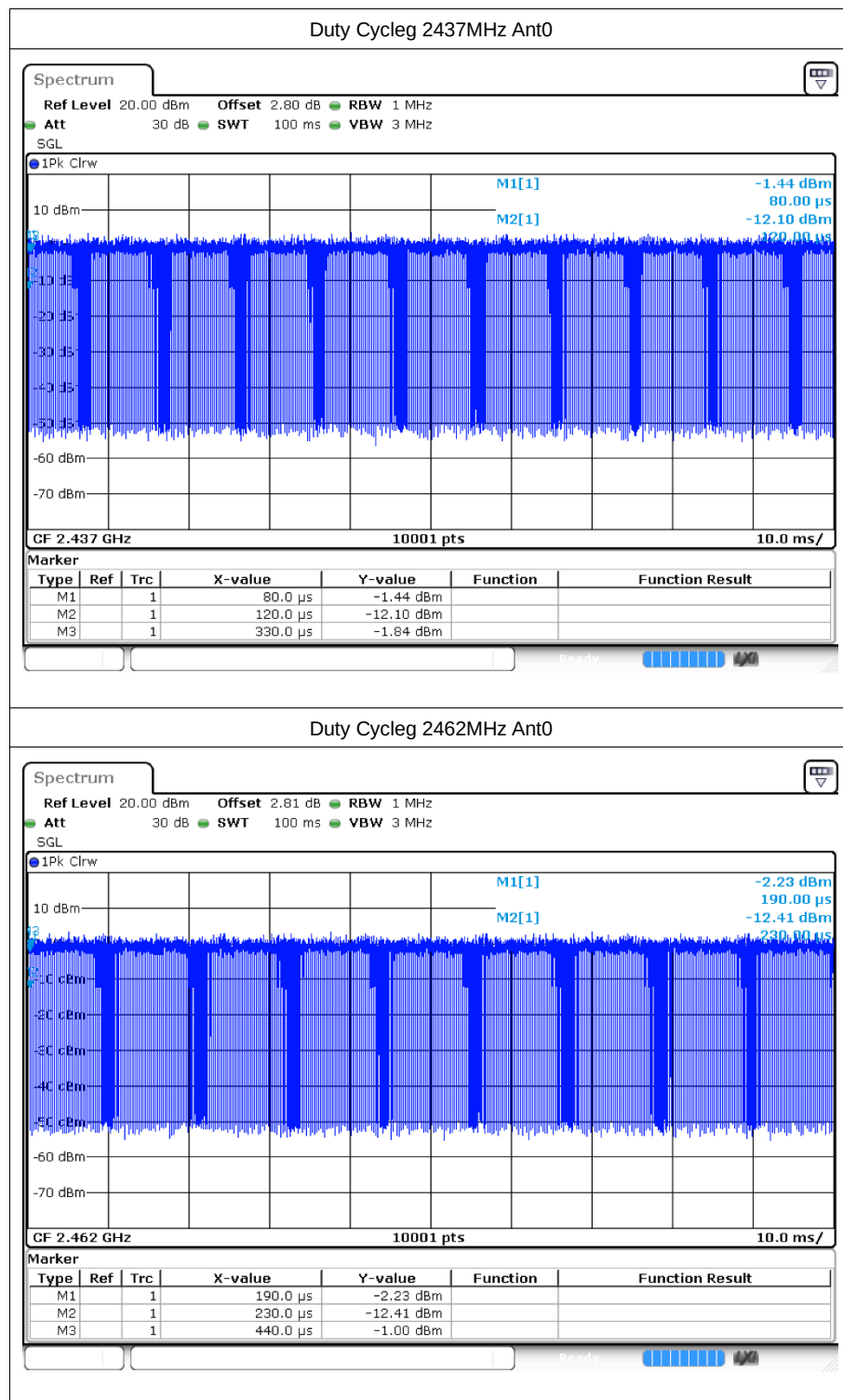
1.1 Test Result

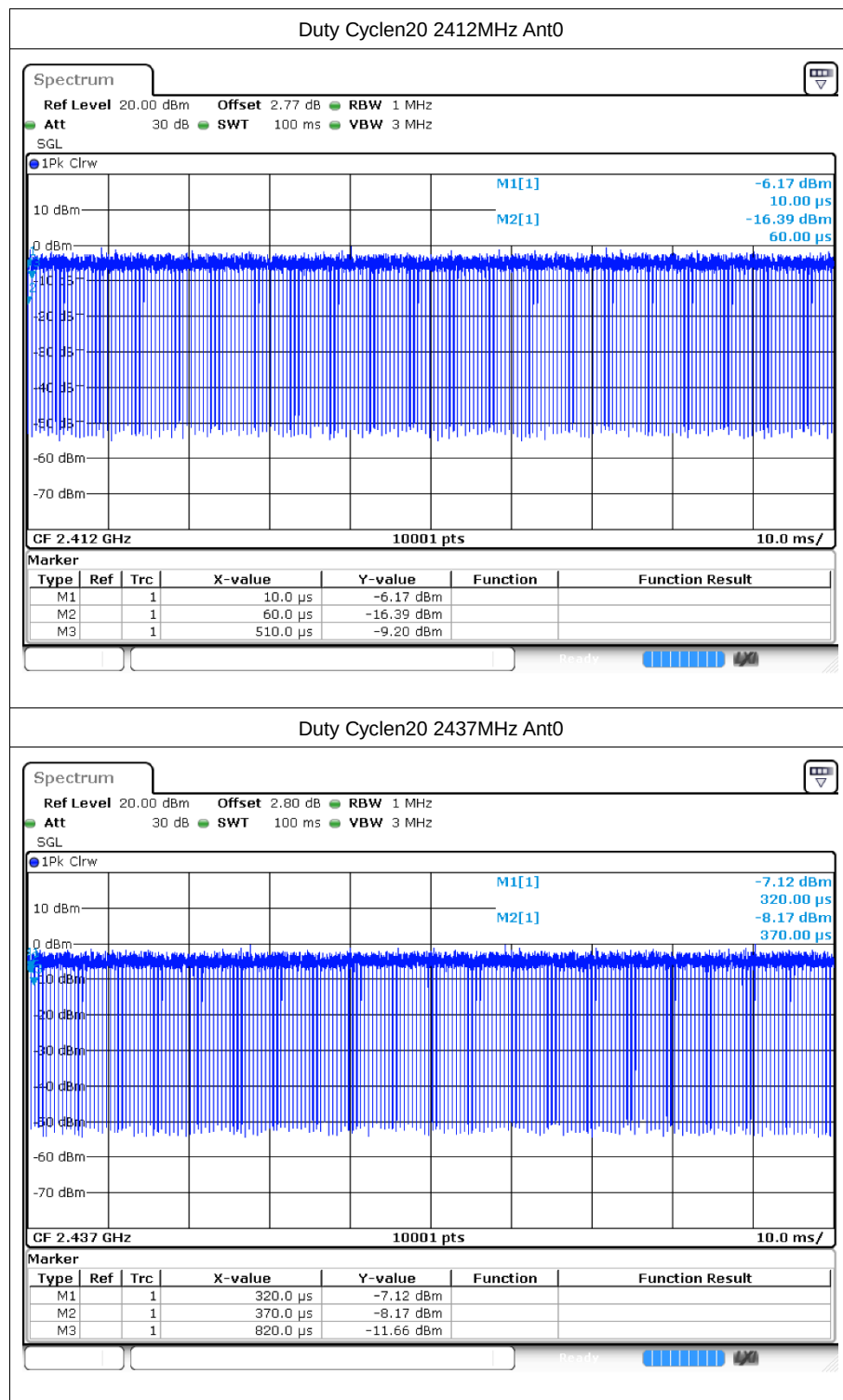
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	1/T (kHz)
b	2412	Ant0	99.6	0.12
b	2437	Ant0	99.6	0.12
b	2462	Ant0	99.61	0.12
g	2412	Ant0	99.6	0.12
g	2437	Ant0	99.6	0.12
g	2462	Ant0	99.61	0.12
n20	2412	Ant0	92.87	2.22
n20	2437	Ant0	92.86	2.22
n20	2462	Ant0	92.93	2.22
n40	2422	Ant0	92.88	2.27
n40	2437	Ant0	92.91	2.27
n40	2452	Ant0	92.86	2.22
ax20	2412	Ant0	86.91	4.35
ax20	2437	Ant0	86.82	4.35
ax20	2462	Ant0	86.96	4.35
ax40	2422	Ant0	86.9	4.35
ax40	2437	Ant0	86.92	4.35
ax40	2452	Ant0	86.88	4.35
b	2412	Ant1	99.6	0.12
b	2437	Ant1	99.6	0.12
b	2462	Ant1	99.6	0.12
g	2412	Ant1	99.6	0.12
g	2437	Ant1	99.6	0.12
g	2462	Ant1	99.6	0.12
n20	2412	Ant1	92.91	2.22
n20	2437	Ant1	92.92	2.27
n20	2462	Ant1	92.98	2.22
n40	2422	Ant1	92.95	2.27
n40	2437	Ant1	92.93	2.27
n40	2452	Ant1	92.91	2.22
ax20	2412	Ant1	87.11	4.55
ax20	2437	Ant1	86.92	4.35
ax20	2462	Ant1	86.84	4.35
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ax40	2437	Ant1	86.86	4.55
ax40	2452	Ant1	87.14	4.35

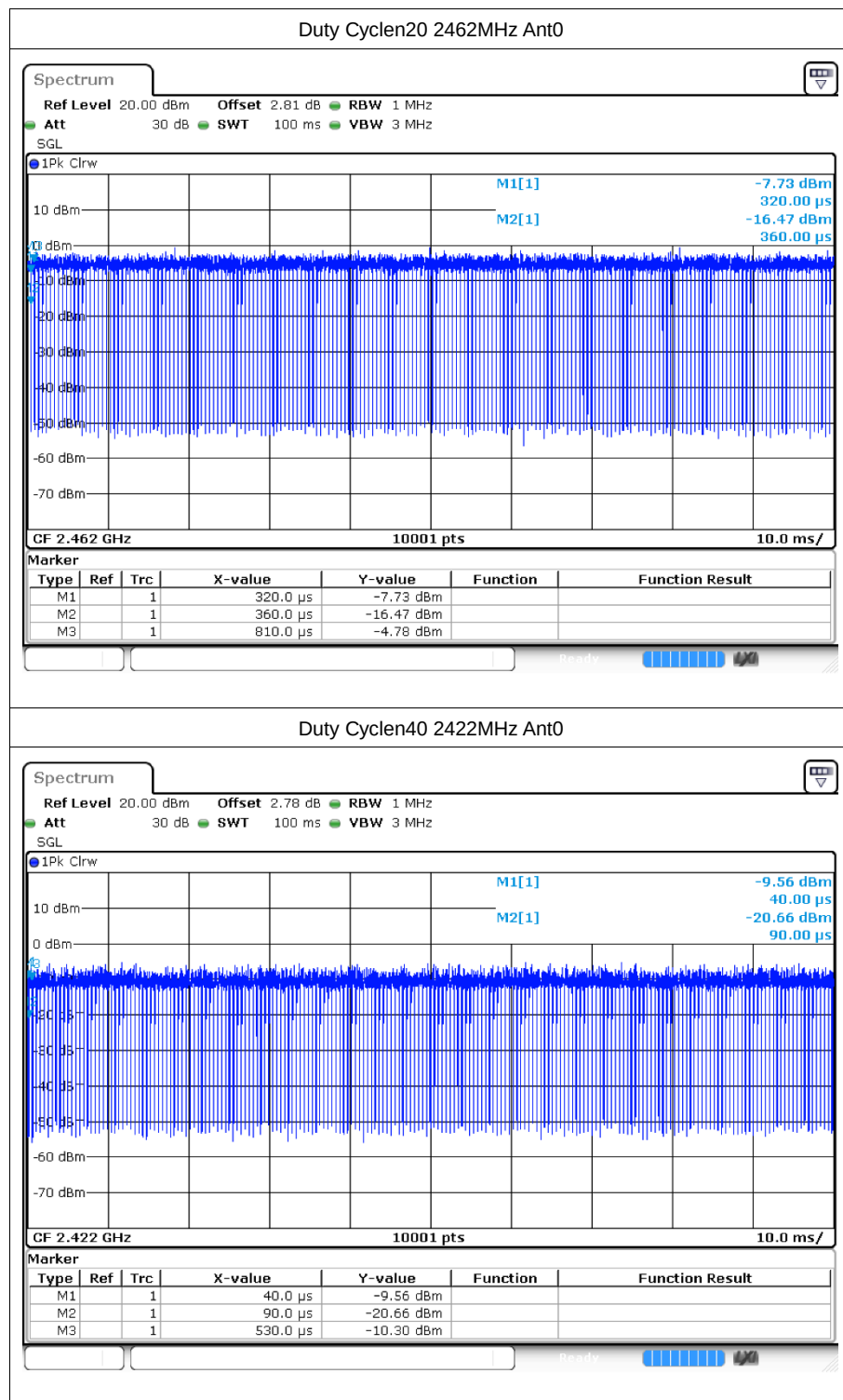
1.2 Test Graphs

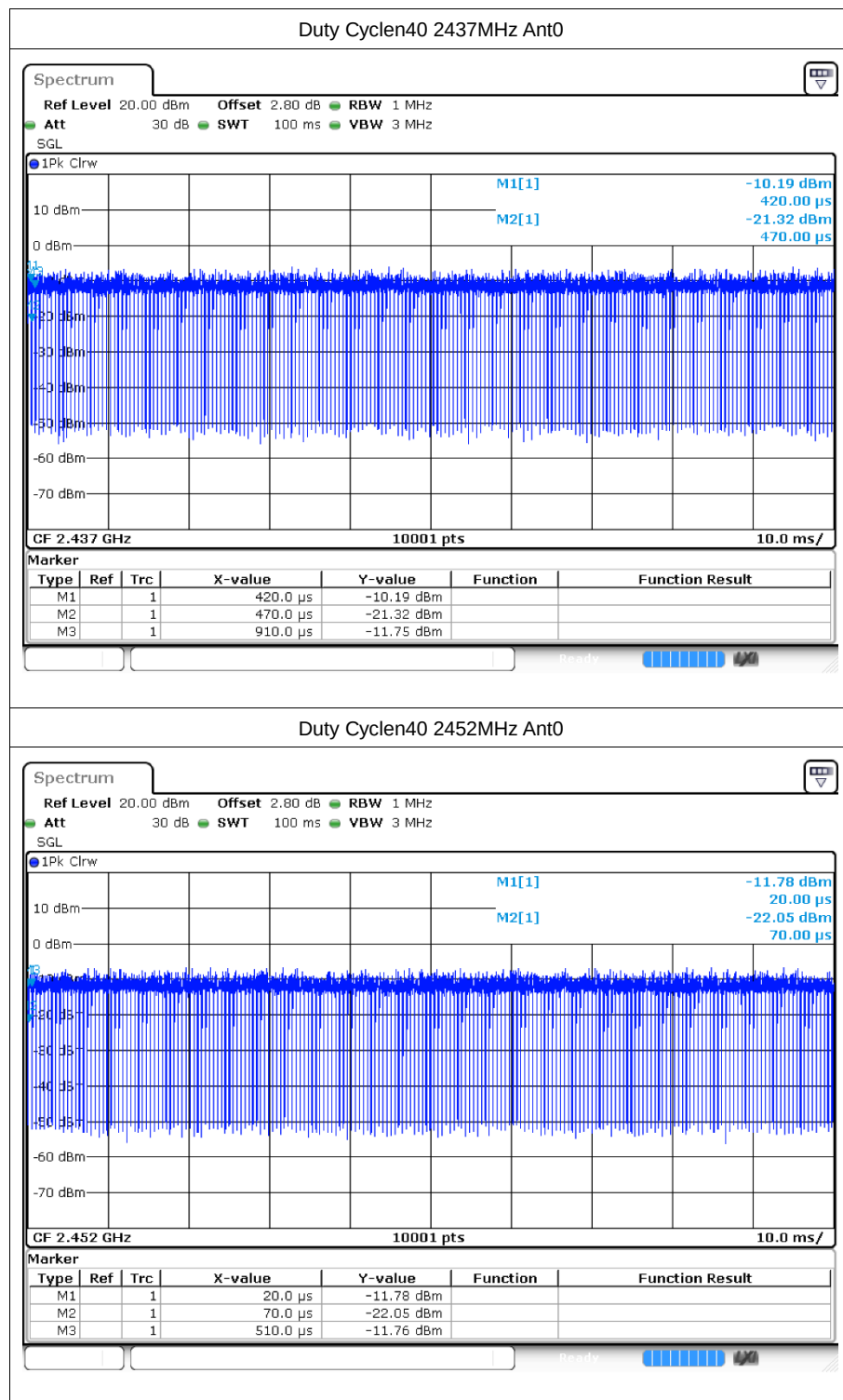






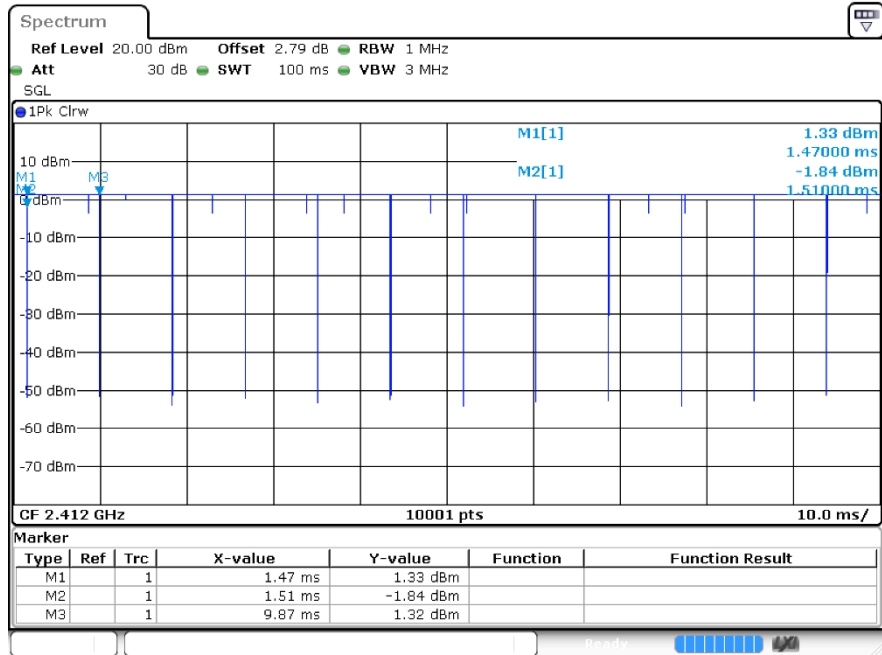




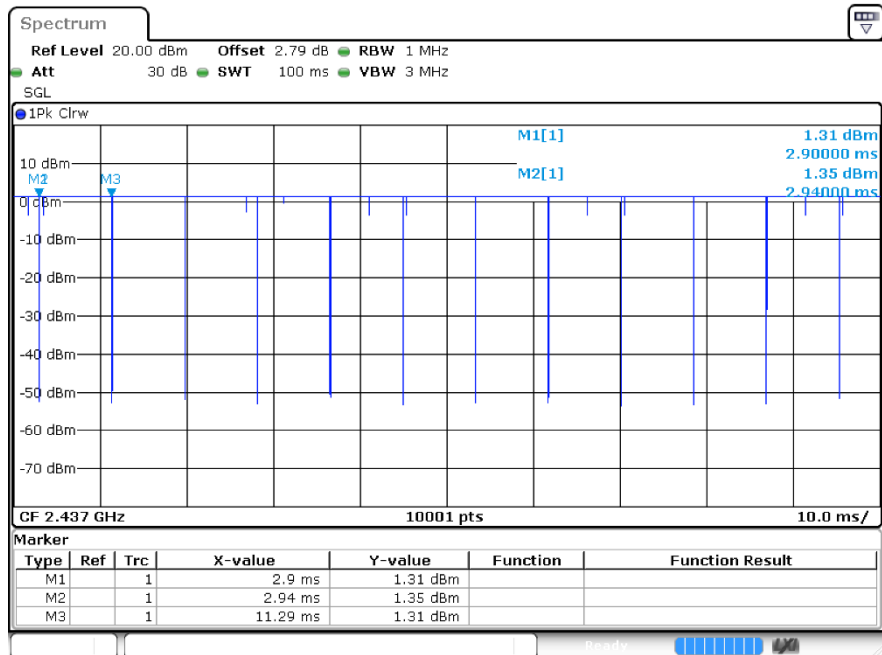


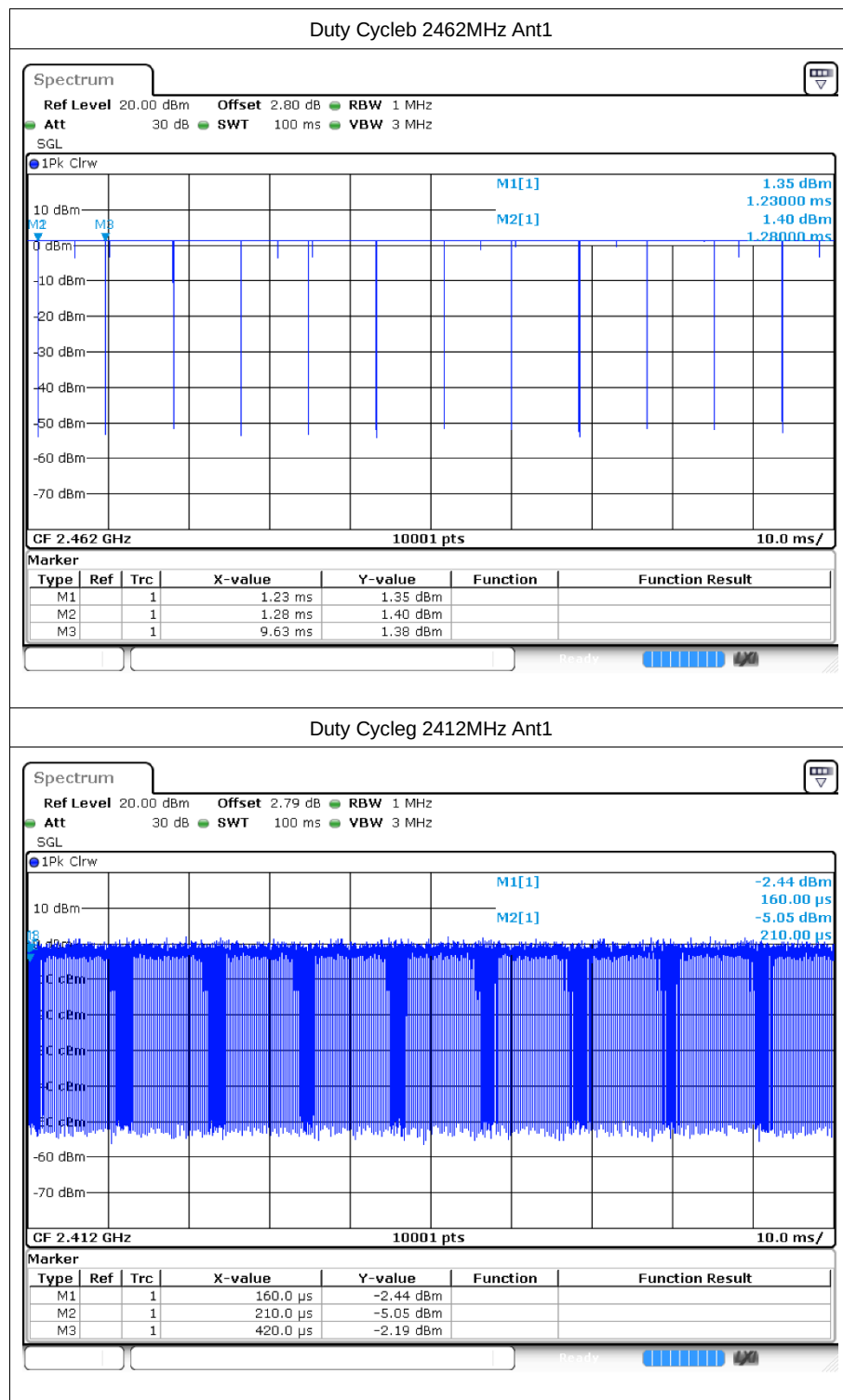
Test Graphs

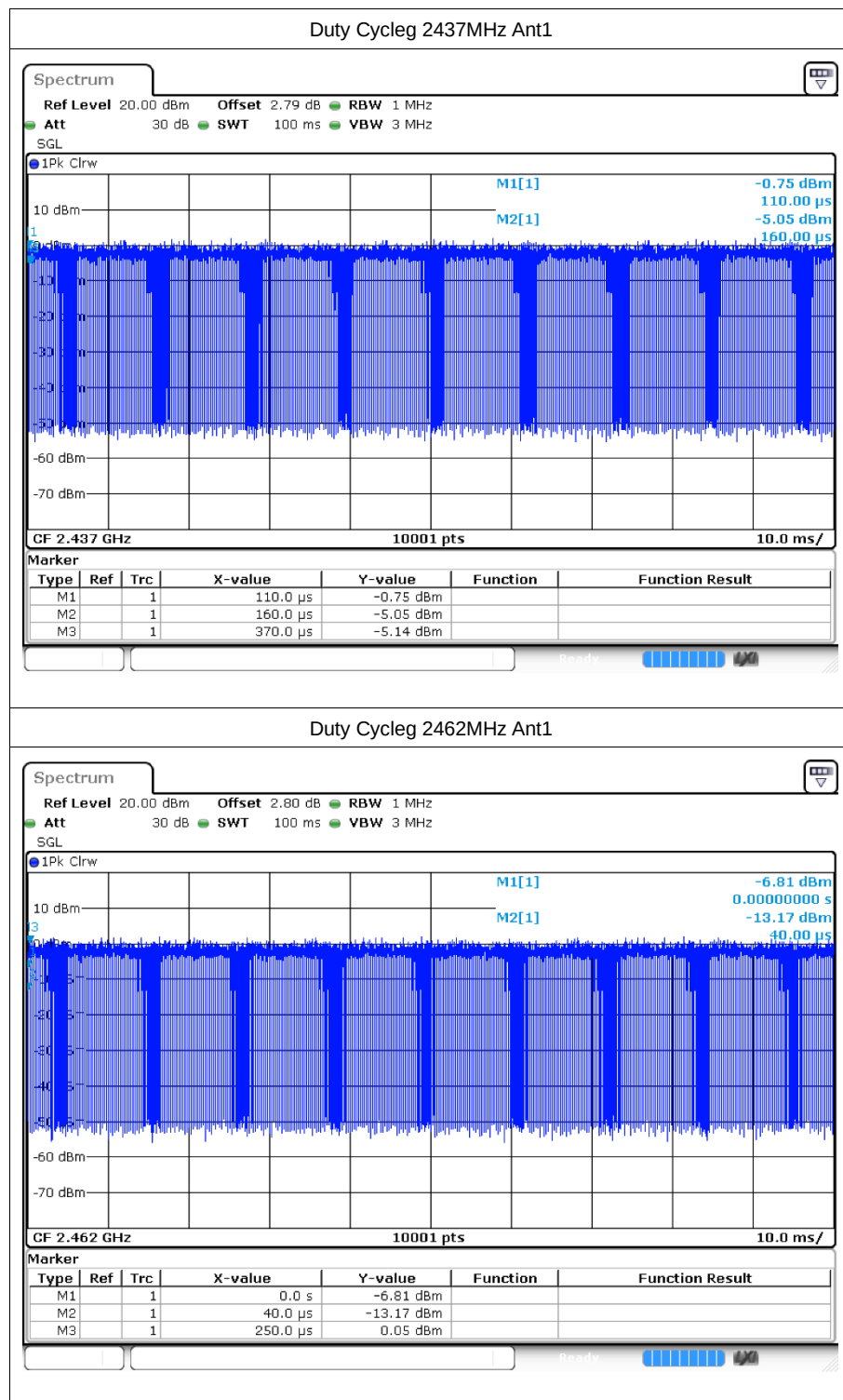
Duty Cycleb 2412MHz Ant1

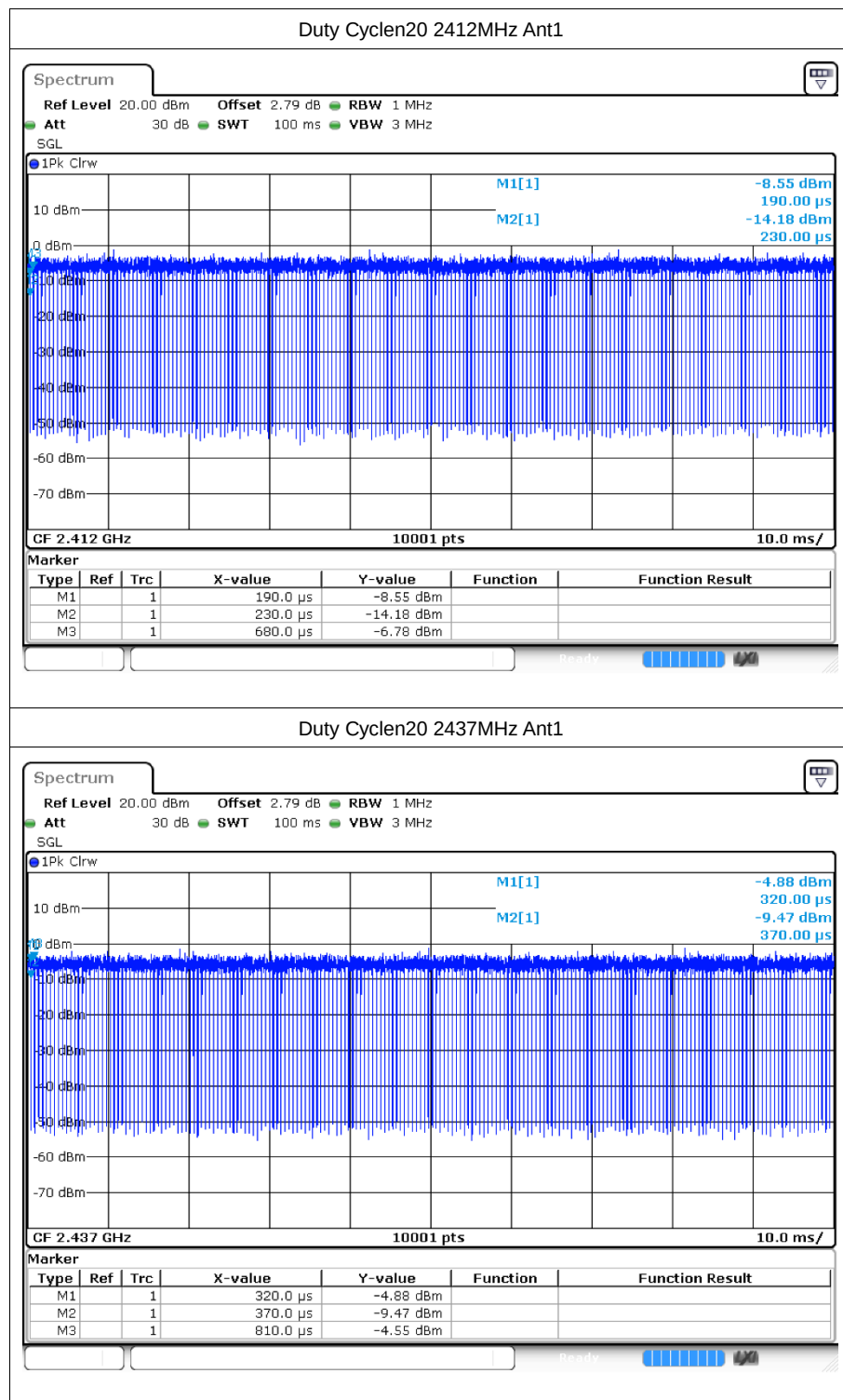


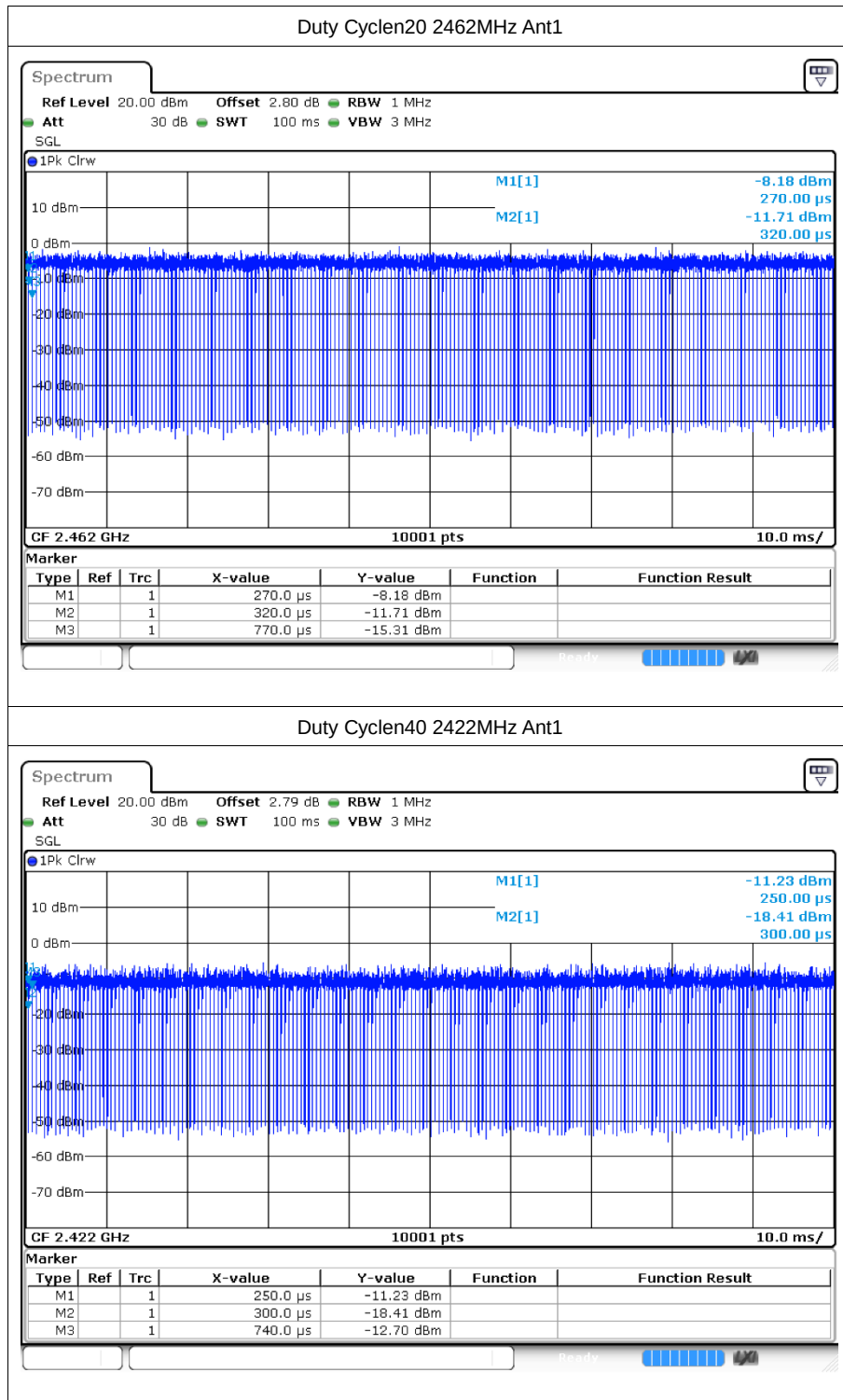
Duty Cycleb 2437MHz Ant1

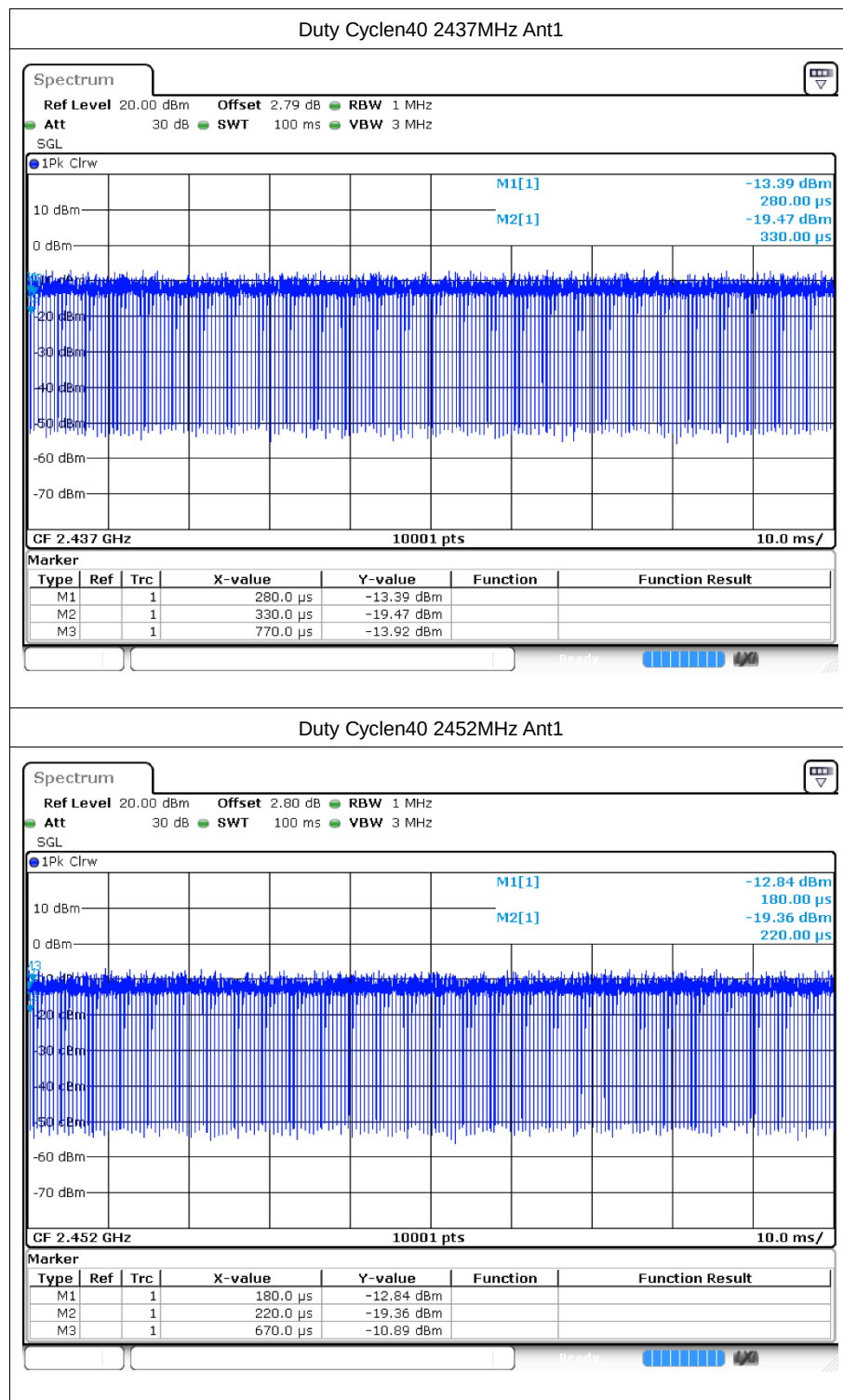


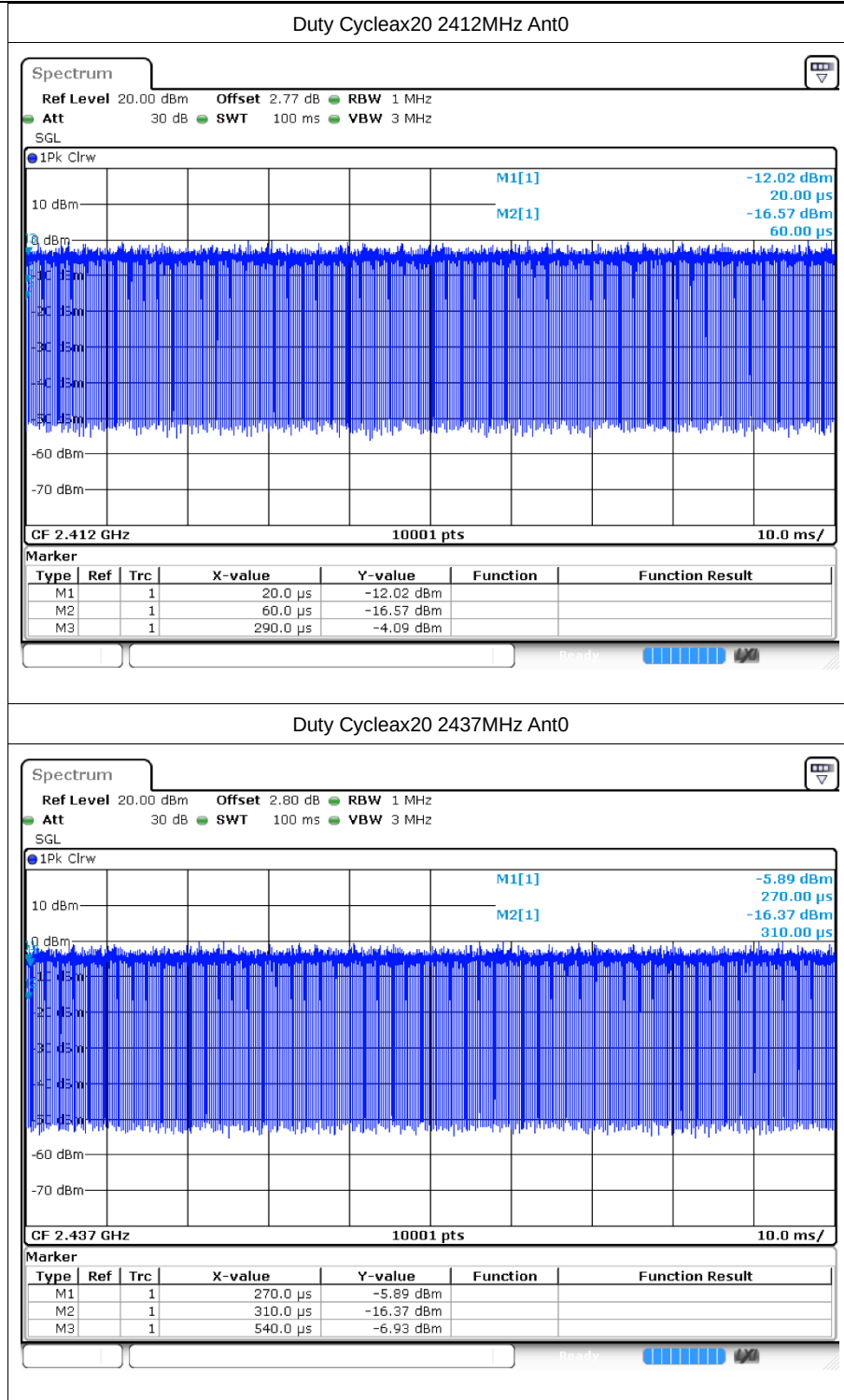


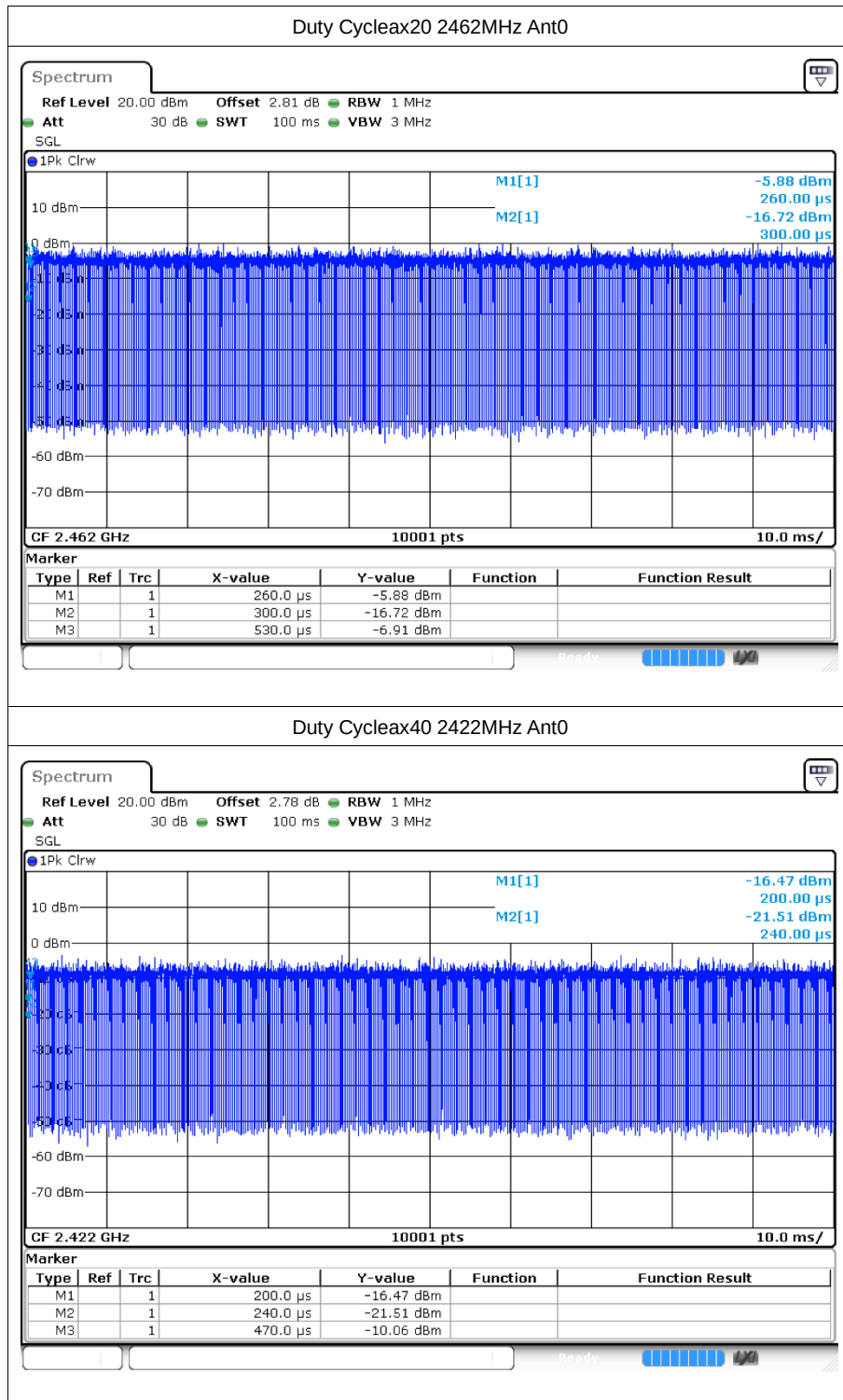


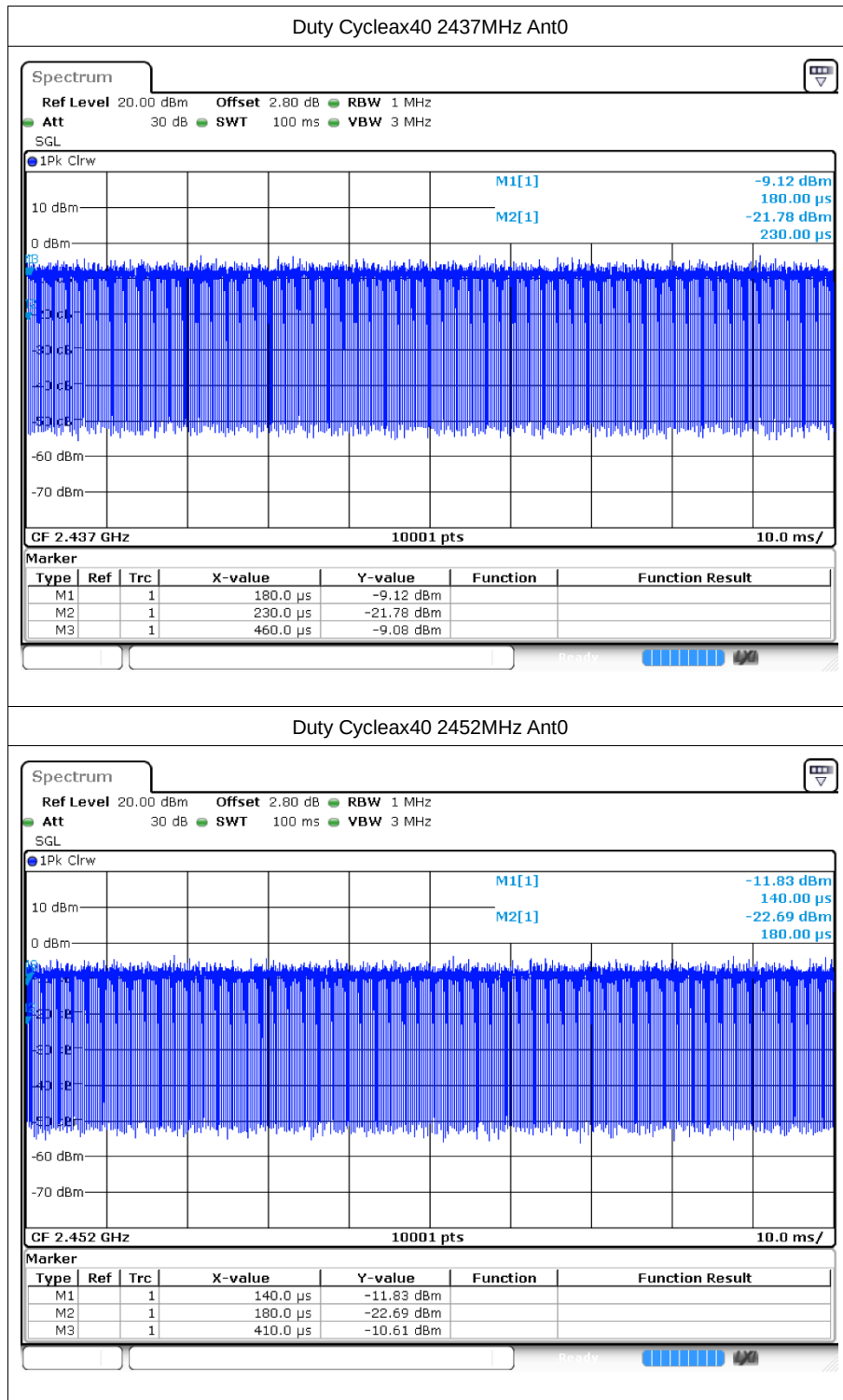












2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Ant.	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant0	12.57	30	Pass
b	2437	Ant0	12.64	30	Pass
b	2462	Ant0	12.4	30	Pass
b	2412	Ant1	11.85	30	Pass
b	2437	Ant1	11.85	30	Pass
b	2462	Ant1	10.92	30	Pass
g	2412	Ant0	12.77	30	Pass
g	2437	Ant0	12.72	30	Pass
g	2462	Ant0	12.44	30	Pass
g	2412	Ant1	11.26	30	Pass
g	2437	Ant1	11.3	30	Pass
g	2462	Ant1	11.1	30	Pass
n20	2412	Ant0	9.91	30	Pass
n20	2437	Ant0	9.74	30	Pass
n20	2462	Ant0	9.56	30	Pass
n20	2412	Ant1	9.01	30	Pass
n20	2437	Ant1	9.07	30	Pass
n20	2462	Ant1	8.82	30	Pass
n20	2412	Sum	12.49	30	Pass
n20	2437	Sum	12.43	30	Pass
n20	2462	Sum	12.22	30	Pass
n40	2422	Ant0	11.03	30	Pass
n40	2437	Ant0	10.14	30	Pass
n40	2452	Ant0	9.95	30	Pass
n40	2422	Ant1	10.55	30	Pass
n40	2437	Ant1	9.43	30	Pass
n40	2452	Ant1	9.25	30	Pass
n40	2422	Sum	13.81	30	Pass
n40	2437	Sum	12.81	30	Pass
n40	2452	Sum	12.62	30	Pass
ax20	2412	Ant0	9.7	30	Pass
ax20	2437	Ant0	10.02	30	Pass
ax20	2462	Ant0	9.68	30	Pass
ax20	2412	Ant1	8.98	30	Pass



ax20	2437	Ant1	9.28	30	Pass
ax20	2462	Ant1	9	30	Pass
ax20	2412	Sum	12.54	30	Pass
ax20	2437	Sum	12.65	30	Pass
ax20	2462	Sum	12.46	30	Pass
ax40	2422	Ant0	10.21	30	Pass
ax40	2437	Ant0	9.94	30	Pass
ax40	2452	Ant0	9.99	30	Pass
ax40	2422	Ant1	9.49	30	Pass
ax40	2437	Ant1	9.37	30	Pass
ax40	2452	Ant1	9.24	30	Pass
ax40	2422	Sum	12.88	30	Pass
ax40	2437	Sum	12.67	30	Pass
ax40	2452	Sum	12.64	30	Pass

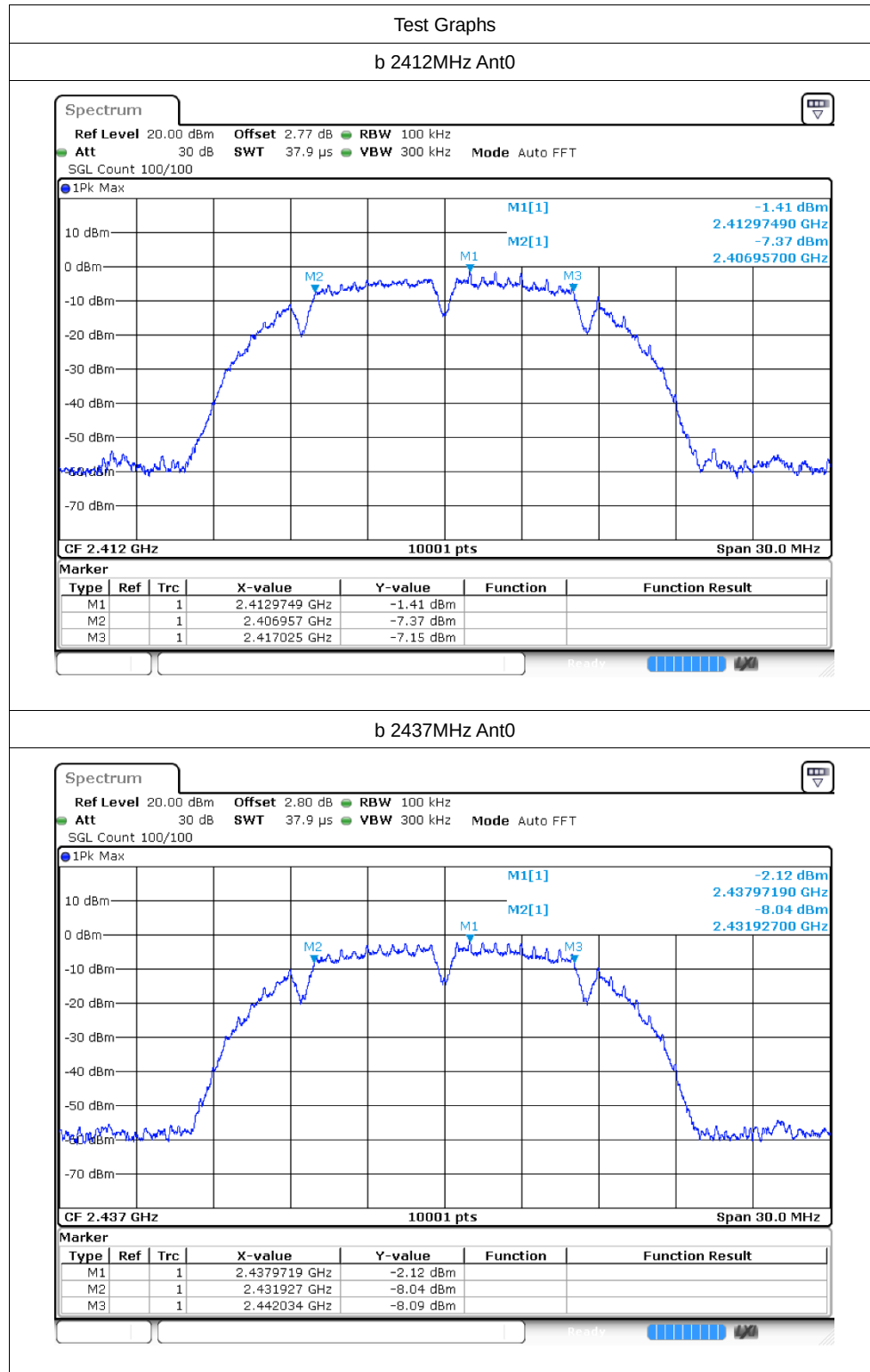


3 -6dB Bandwidth

3.1 Test Result

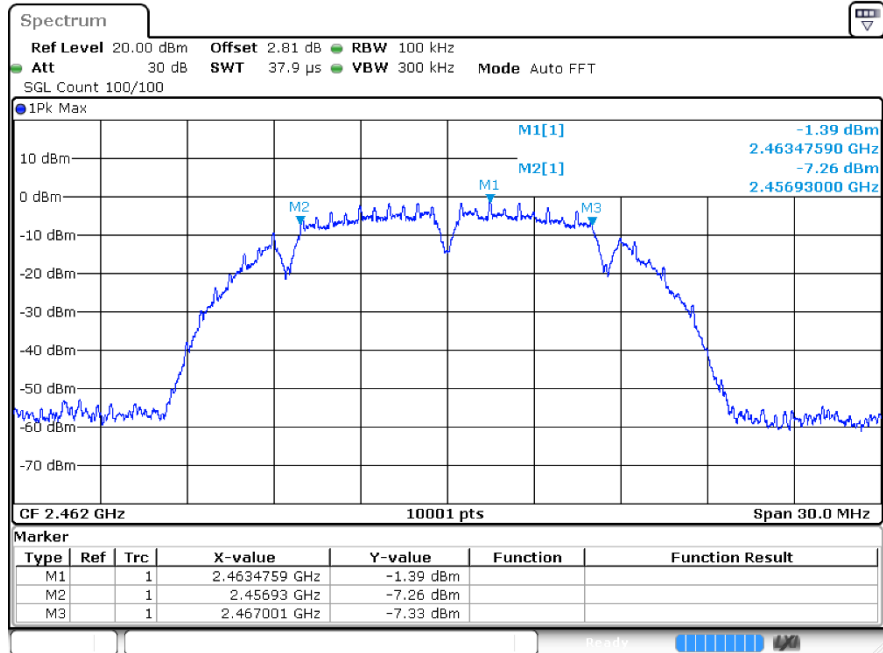
Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant0	10.068	0.5	Pass
b	2437	Ant0	10.107	0.5	Pass
b	2462	Ant0	10.071	0.5	Pass
g	2412	Ant0	15.117	0.5	Pass
g	2437	Ant0	15.105	0.5	Pass
g	2462	Ant0	15.105	0.5	Pass
n20	2412	Ant0	15.102	0.5	Pass
n20	2437	Ant0	15.258	0.5	Pass
n20	2462	Ant0	15.12	0.5	Pass
n40	2422	Ant0	35.052	0.5	Pass
n40	2437	Ant0	29.418	0.5	Pass
n40	2452	Ant0	35.076	0.5	Pass
ax20	2412	Ant0	16.41	0.5	Pass
ax20	2437	Ant0	15.114	0.5	Pass
ax20	2462	Ant0	15.138	0.5	Pass
ax40	2422	Ant0	35.13	0.5	Pass
ax40	2437	Ant0	35.01	0.5	Pass
ax40	2452	Ant0	35.298	0.5	Pass
b	2412	Ant1	10.089	0.5	Pass
b	2437	Ant1	10.059	0.5	Pass
b	2462	Ant1	10.092	0.5	Pass
g	2412	Ant1	15.108	0.5	Pass
g	2437	Ant1	15.099	0.5	Pass
g	2462	Ant1	15.111	0.5	Pass
n20	2412	Ant1	15.105	0.5	Pass
n20	2437	Ant1	15.081	0.5	Pass
n20	2462	Ant1	15.078	0.5	Pass
n40	2422	Ant1	35.028	0.5	Pass
n40	2437	Ant1	35.064	0.5	Pass
n40	2452	Ant1	30.15	0.5	Pass
ax20	2412	Ant1	15.141	0.5	Pass
ax20	2437	Ant1	15.126	0.5	Pass
ax20	2462	Ant1	15.15	0.5	Pass
ax40	2422	Ant1	31.272	0.5	Pass
ax40	2437	Ant1	35.064	0.5	Pass
ax40	2452	Ant1	35.04	0.5	Pass

3.2 Test Graphs

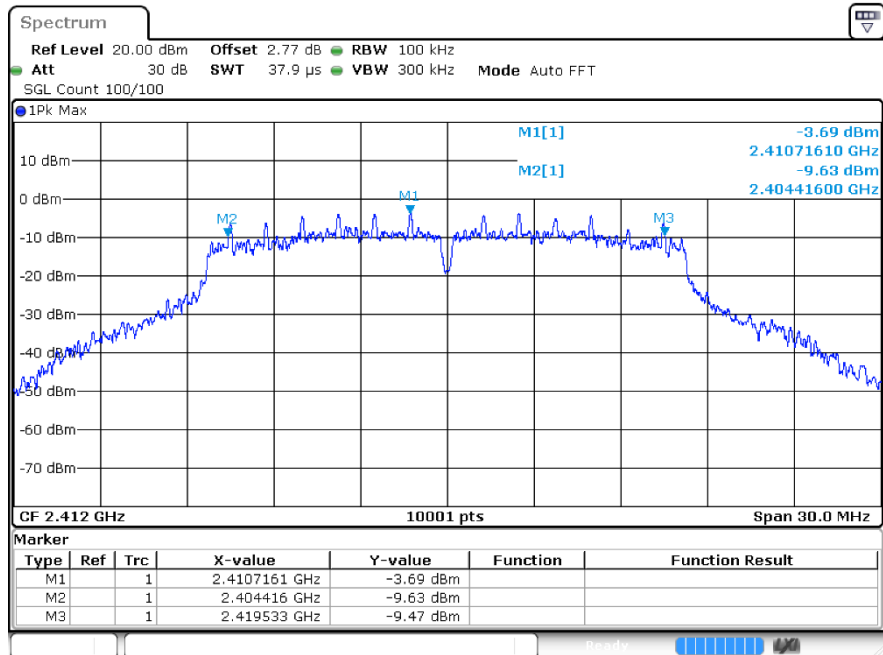




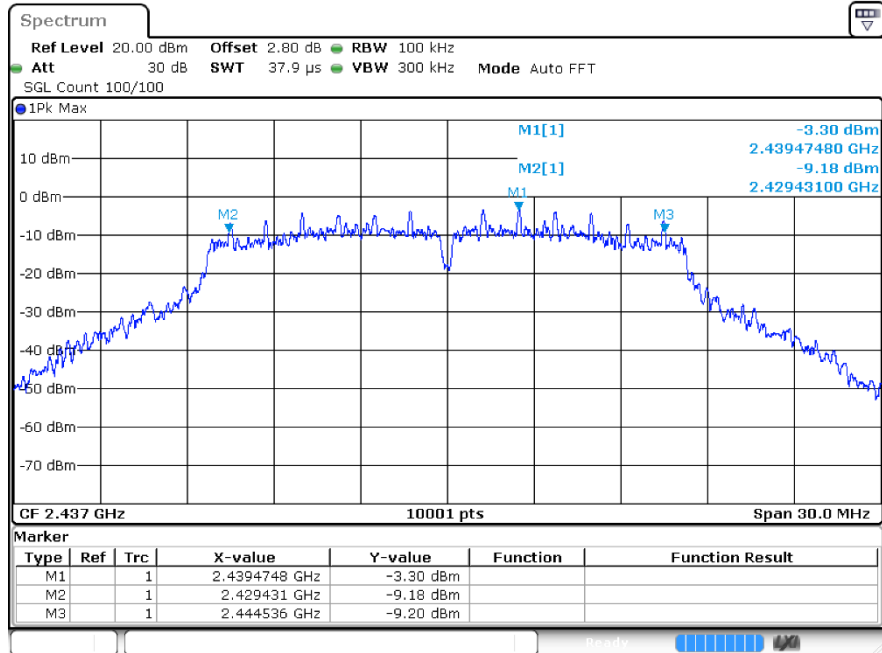
b 2462MHz Ant0



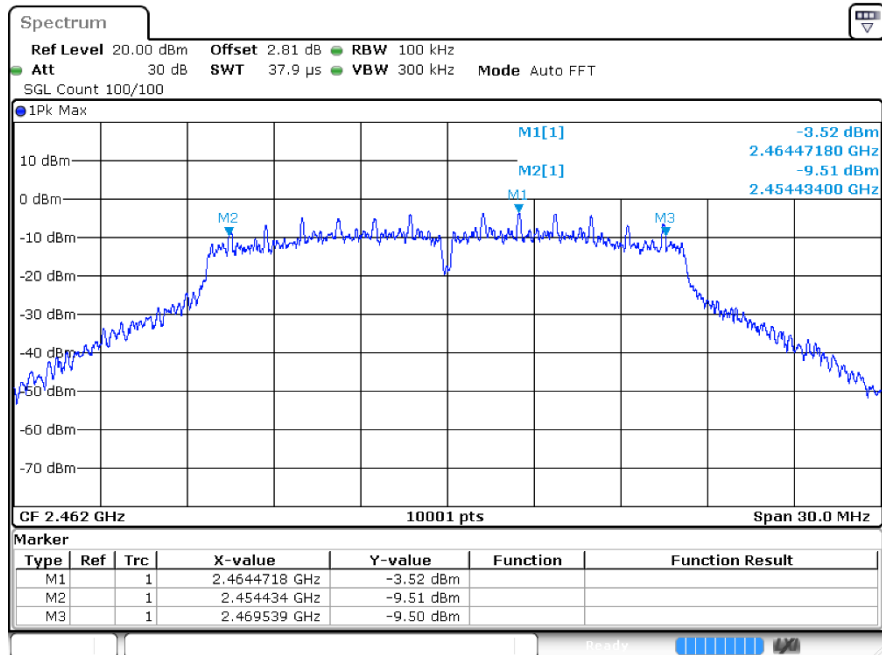
g 2412MHz Ant0

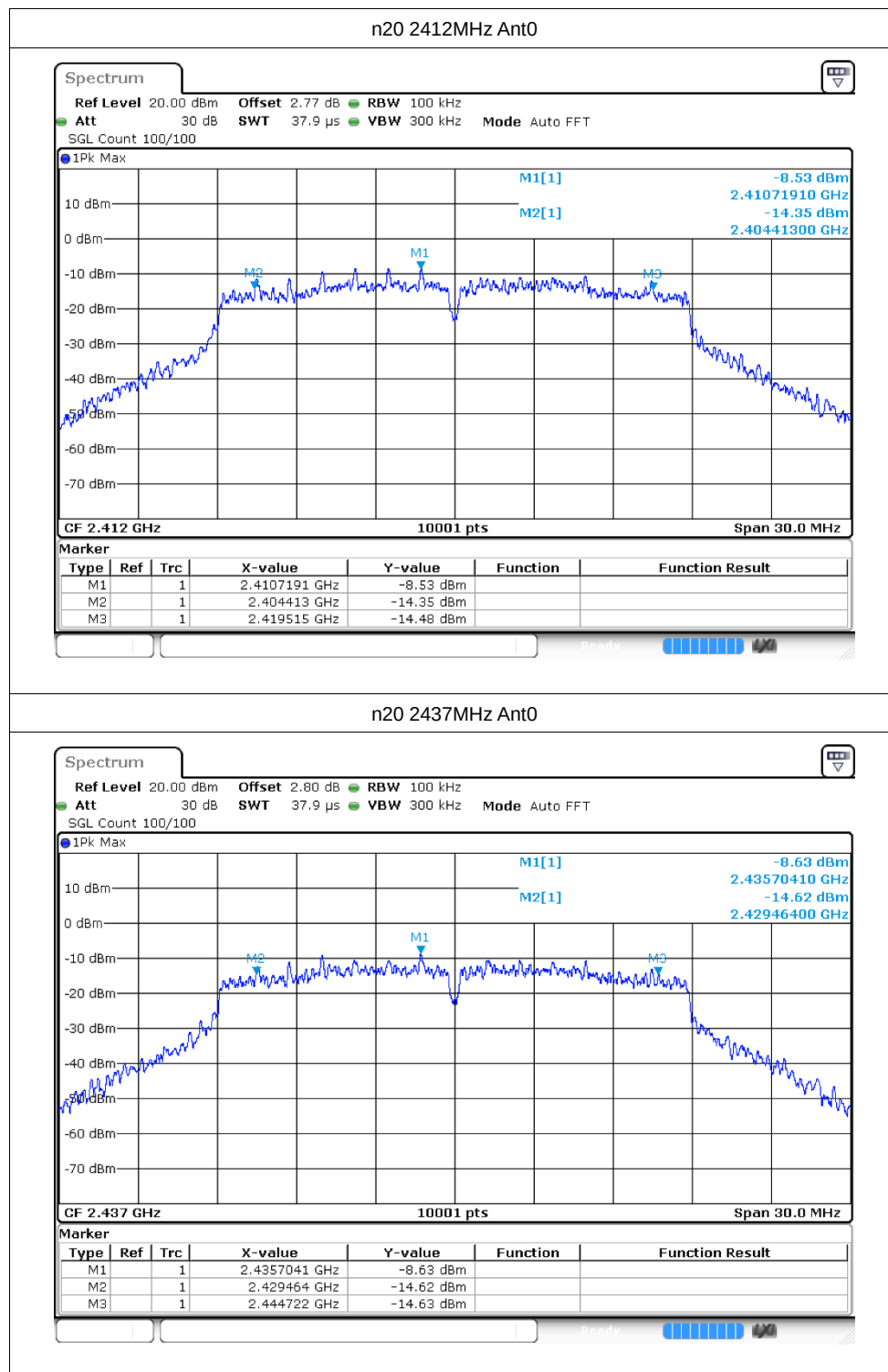


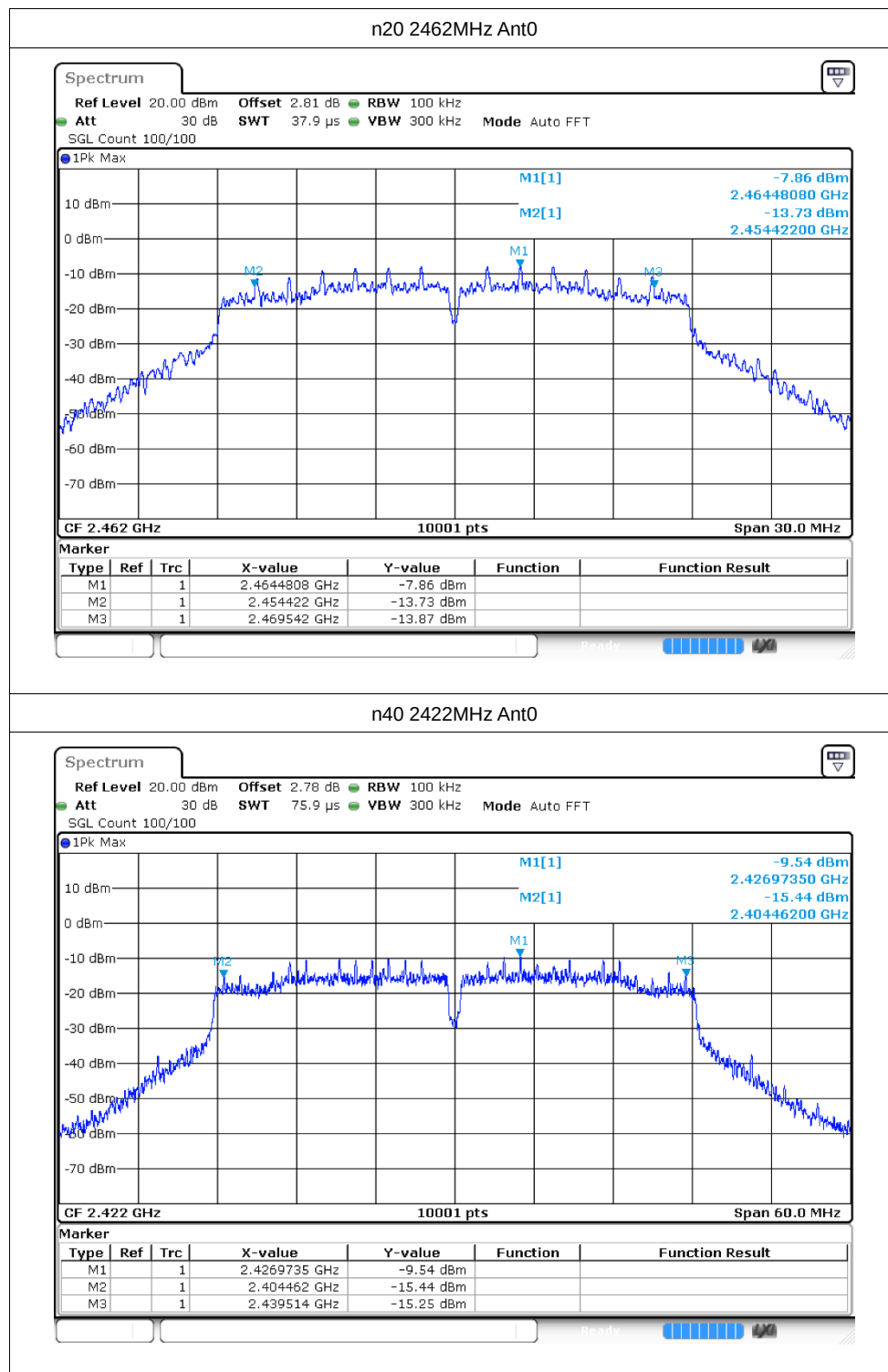
g 2437MHz Ant0

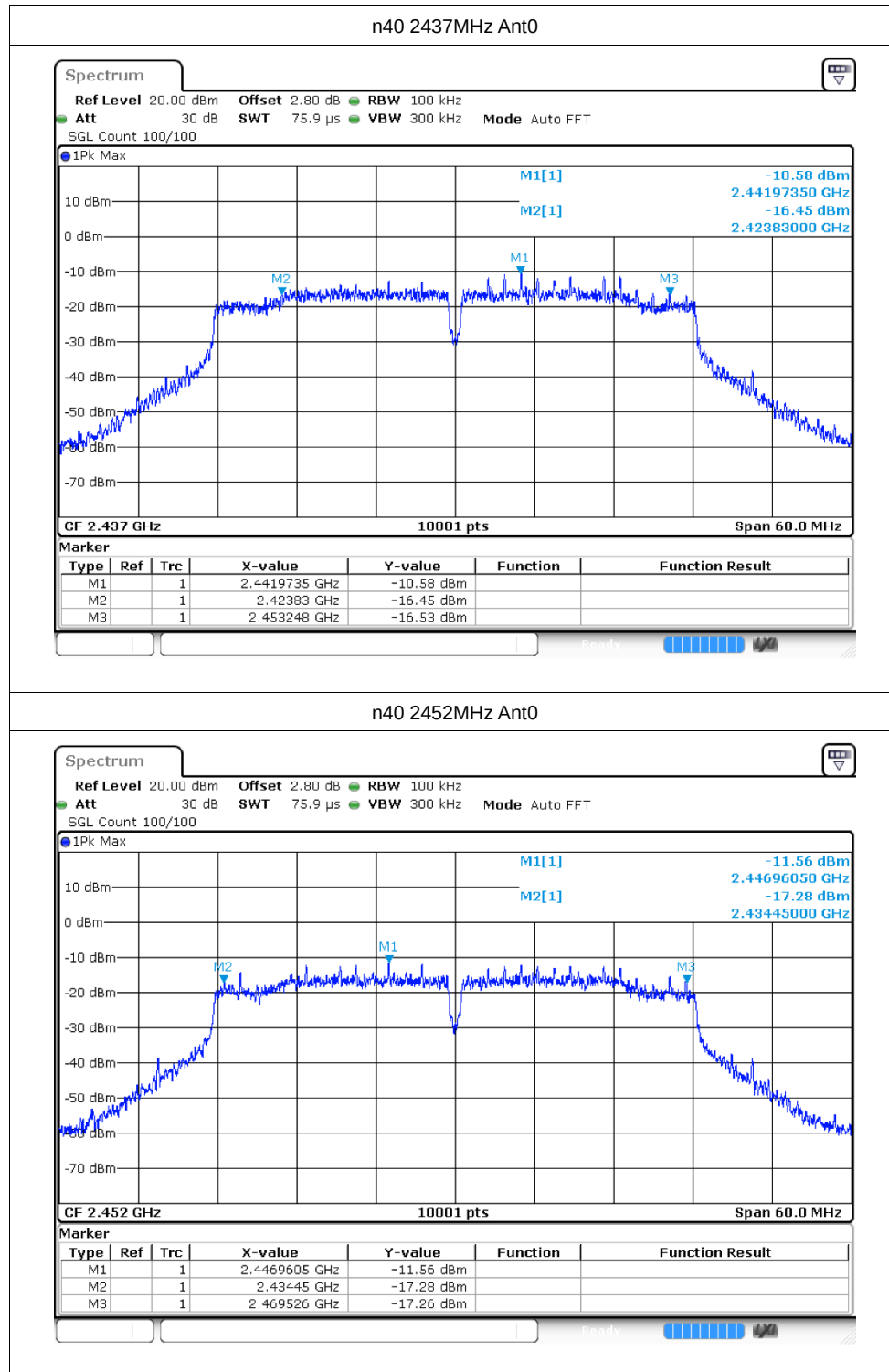


g 2462MHz Ant0

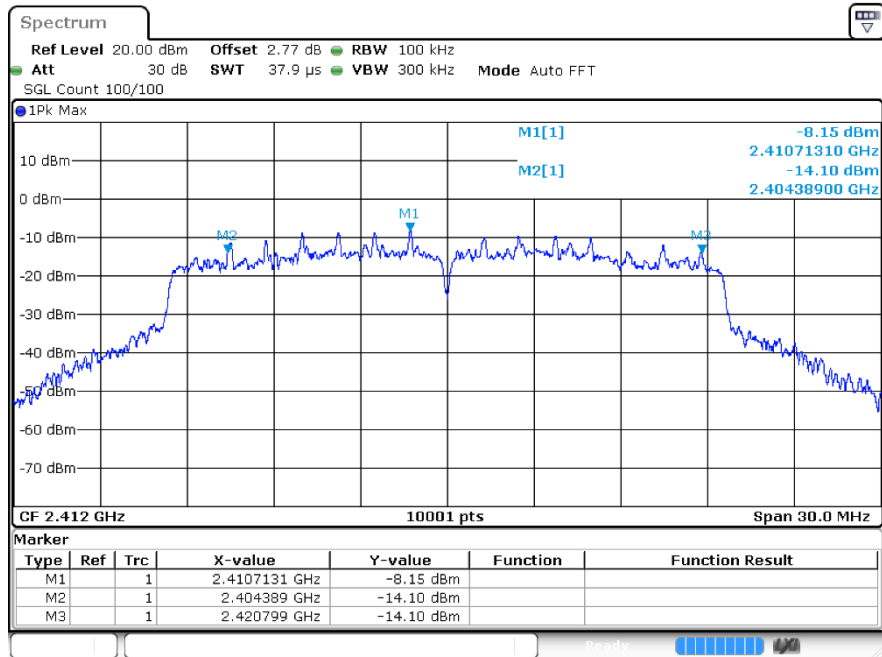




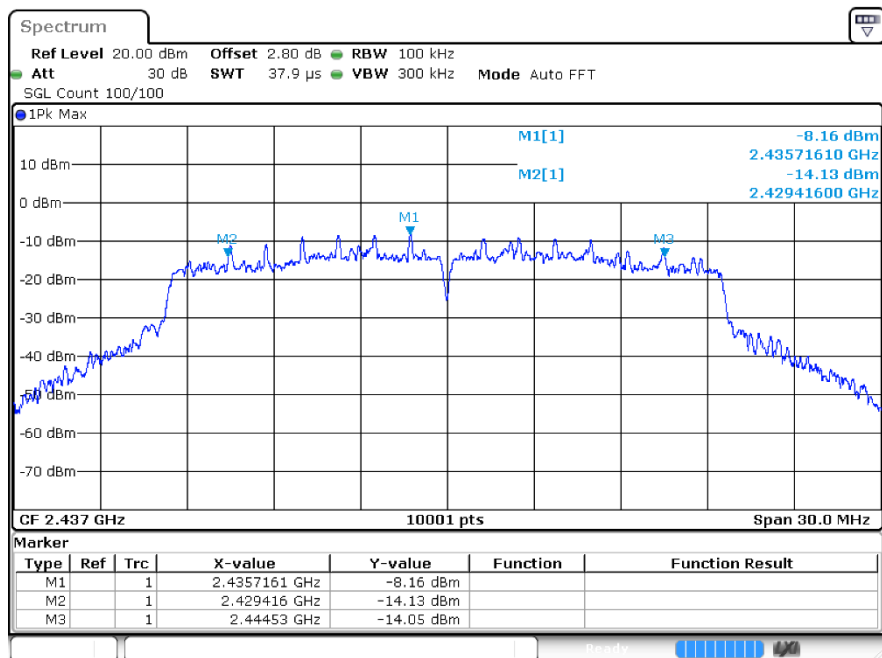


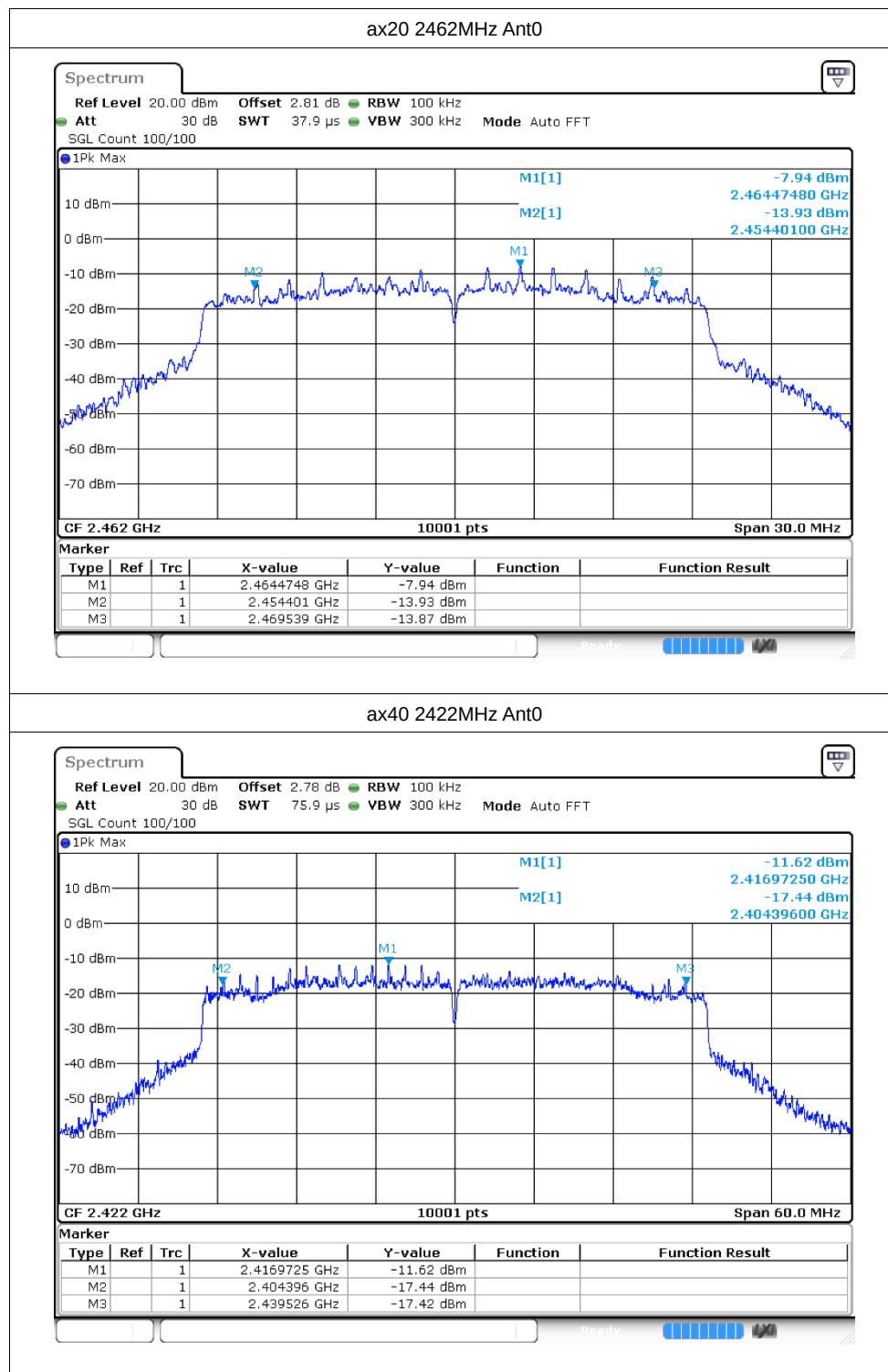


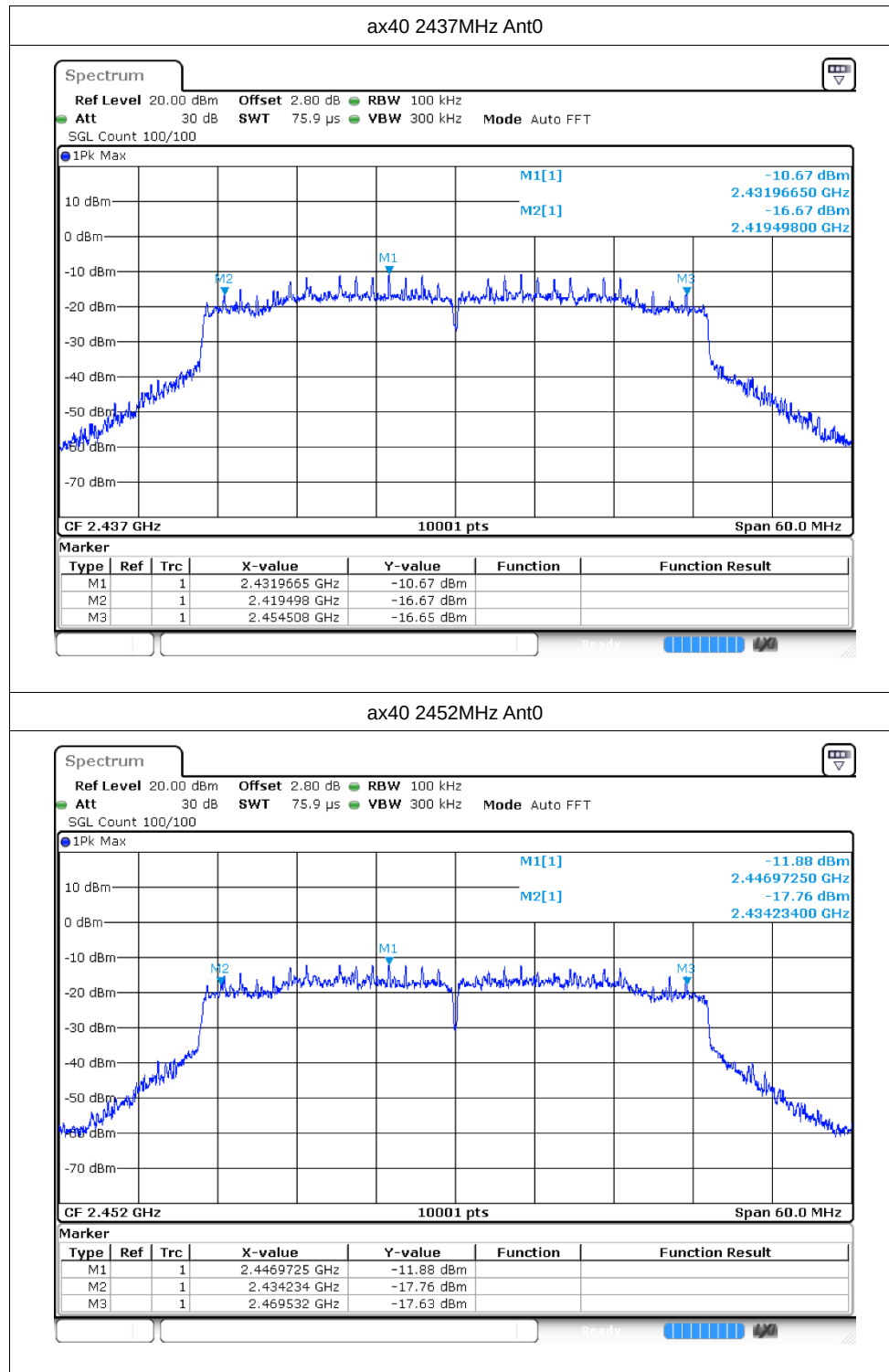
ax20 2412MHz Ant0



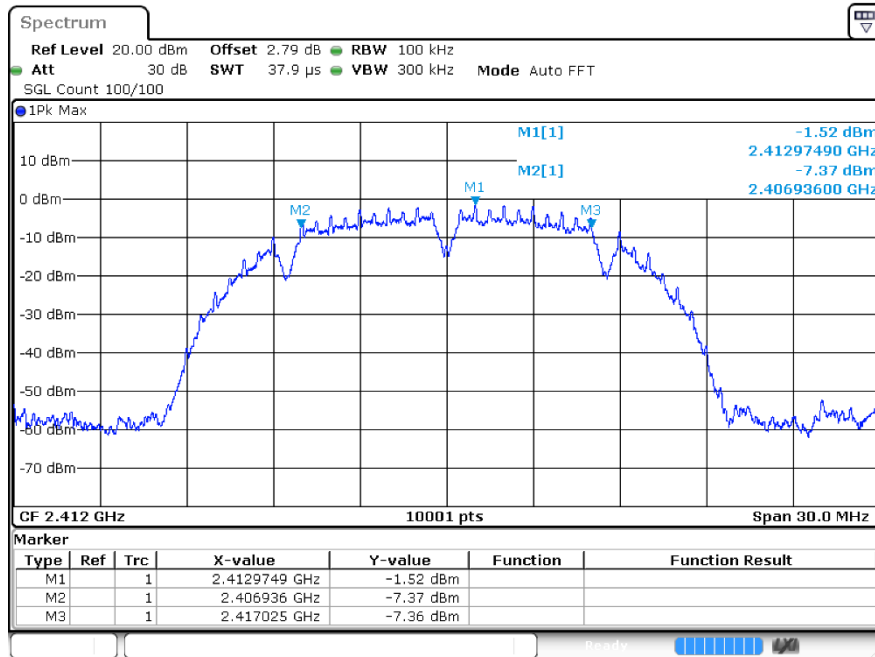
ax20 2437MHz Ant0



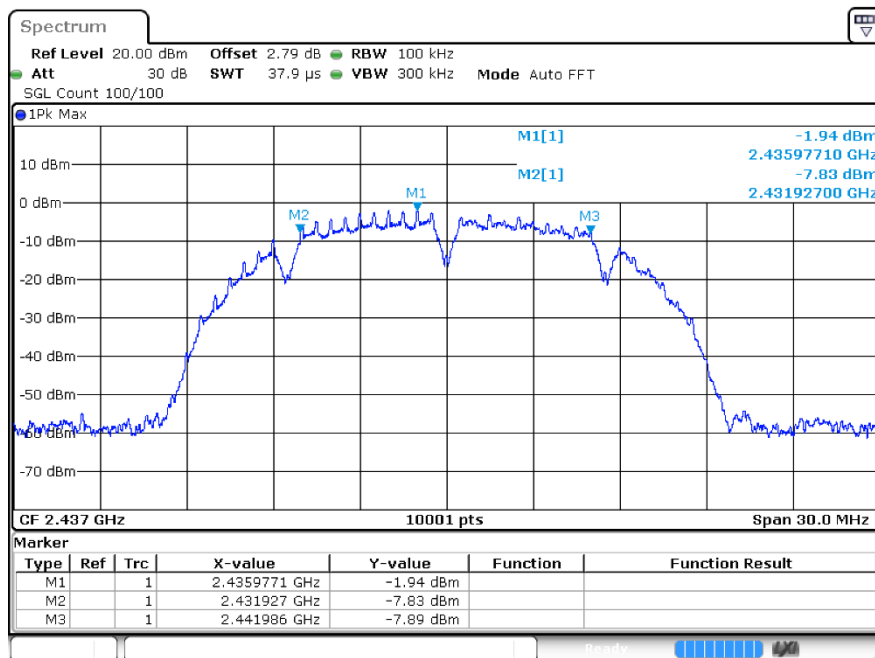


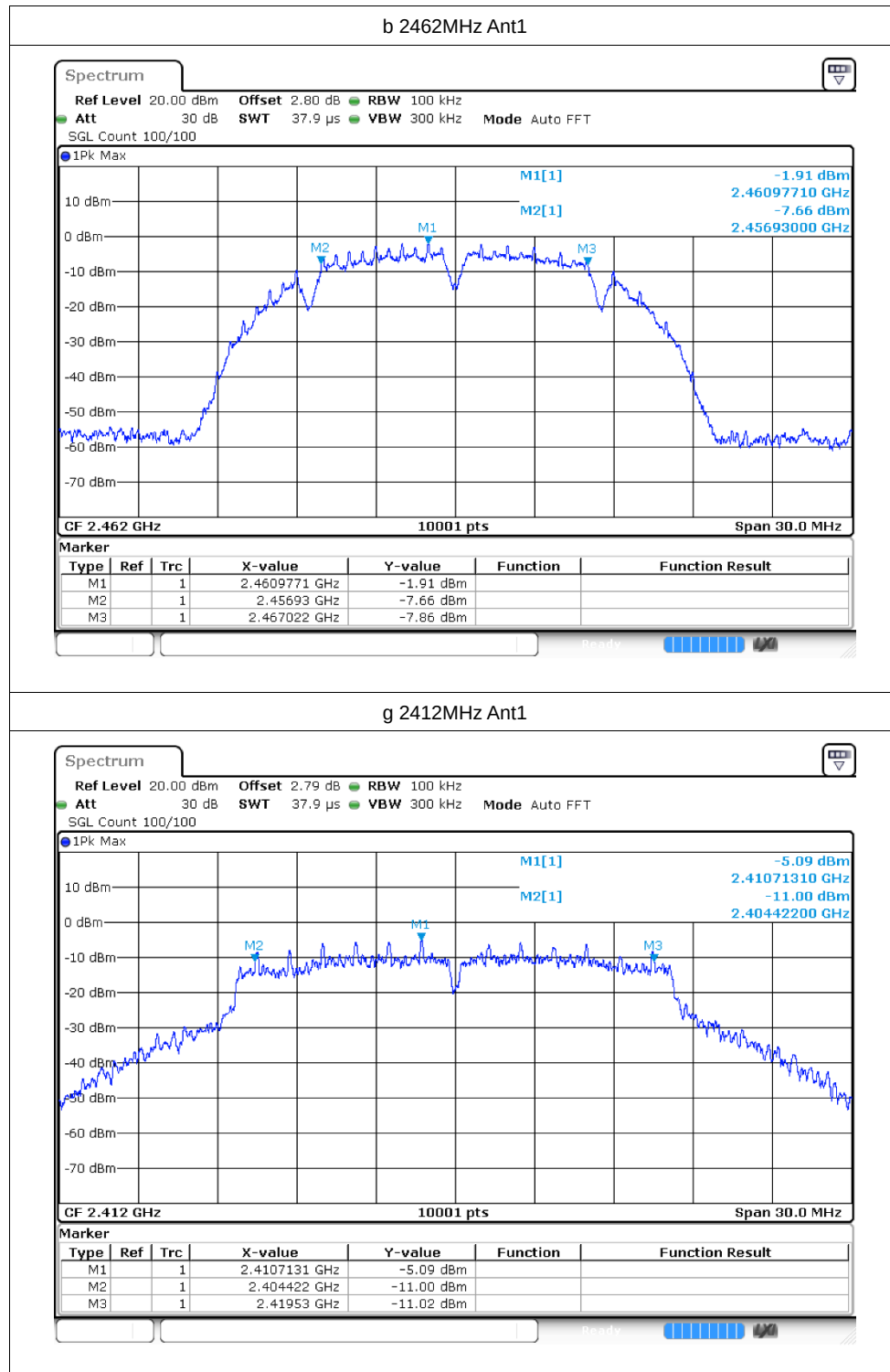


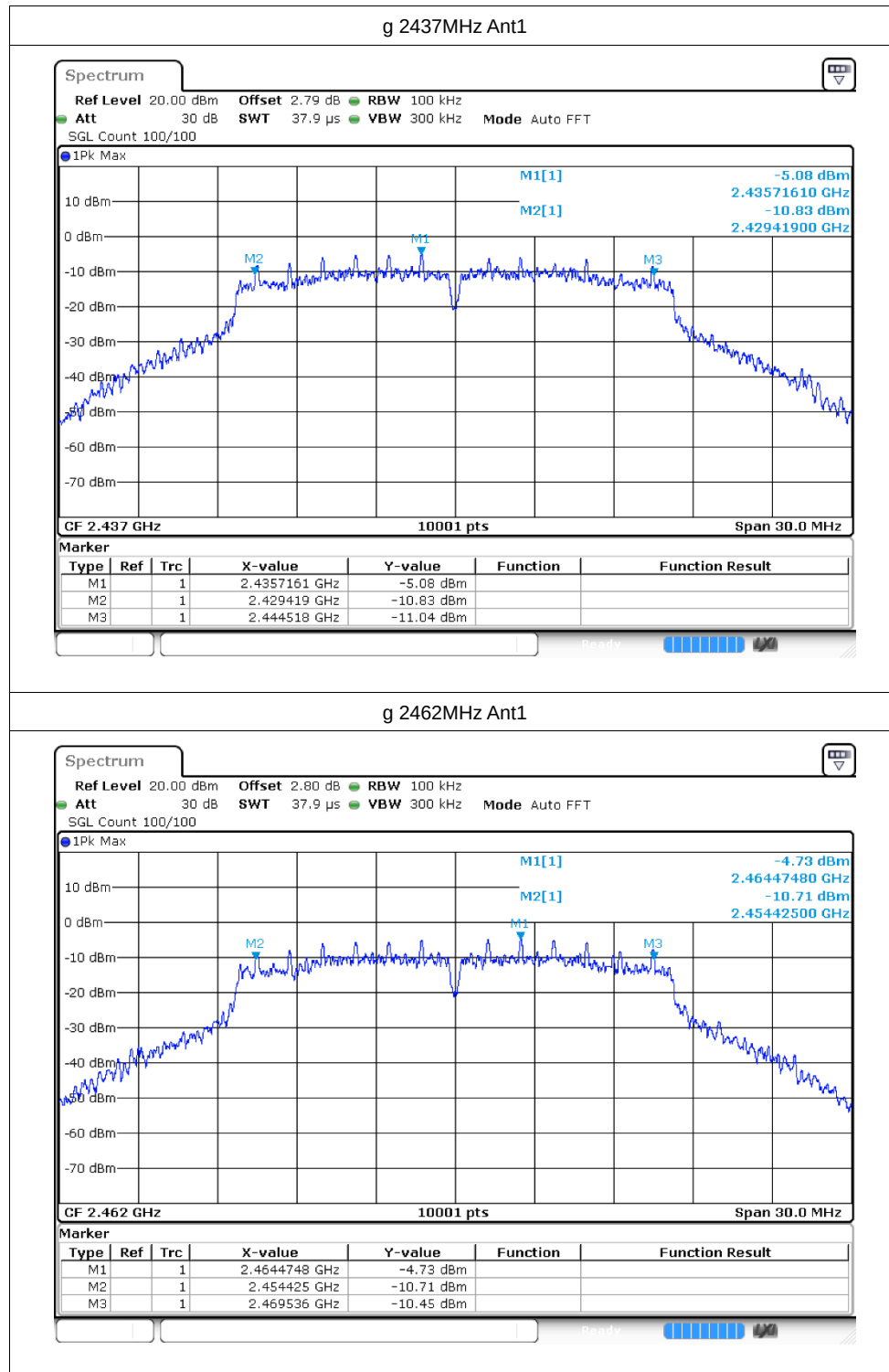
b 2412MHz Ant1

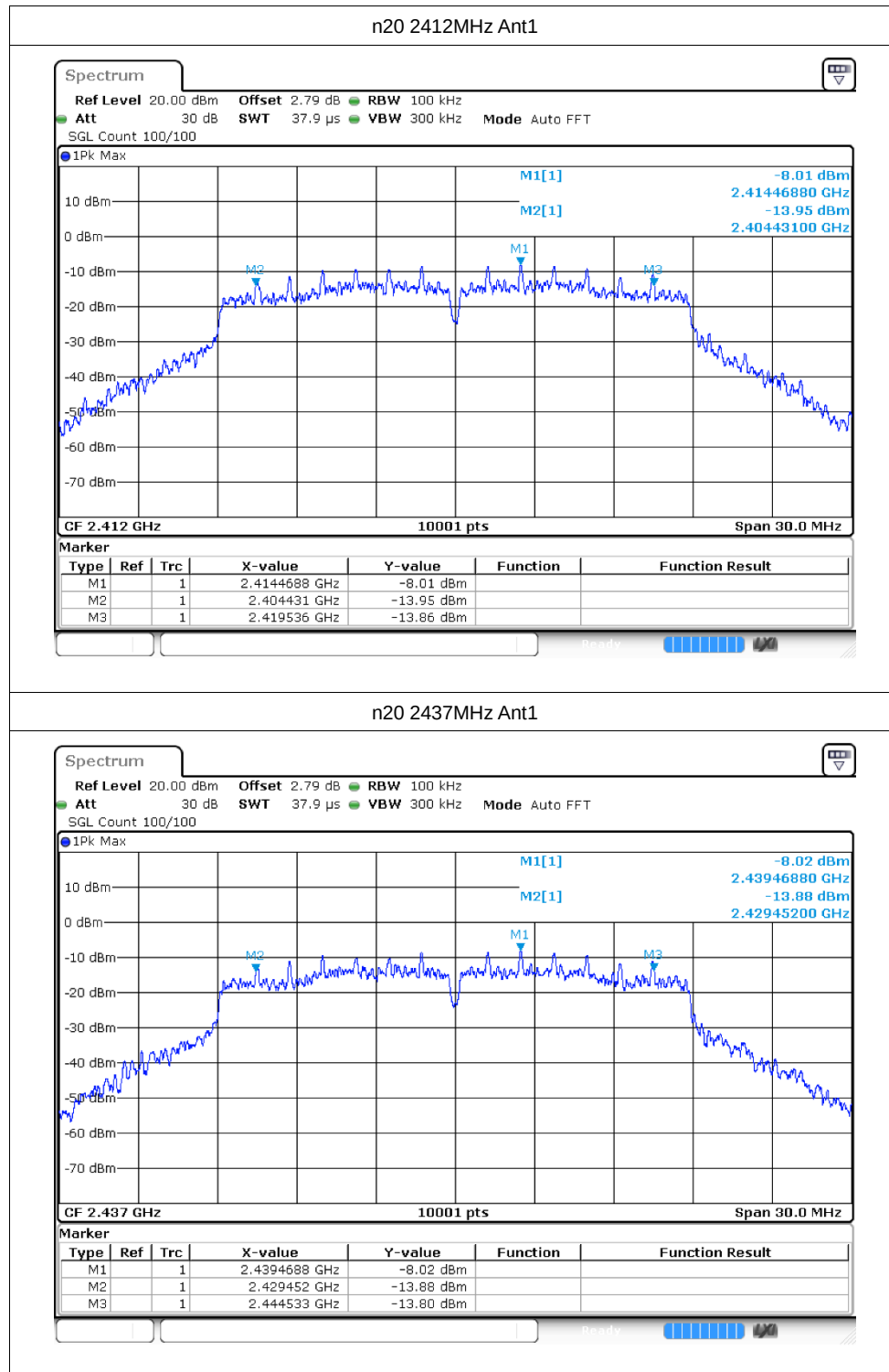


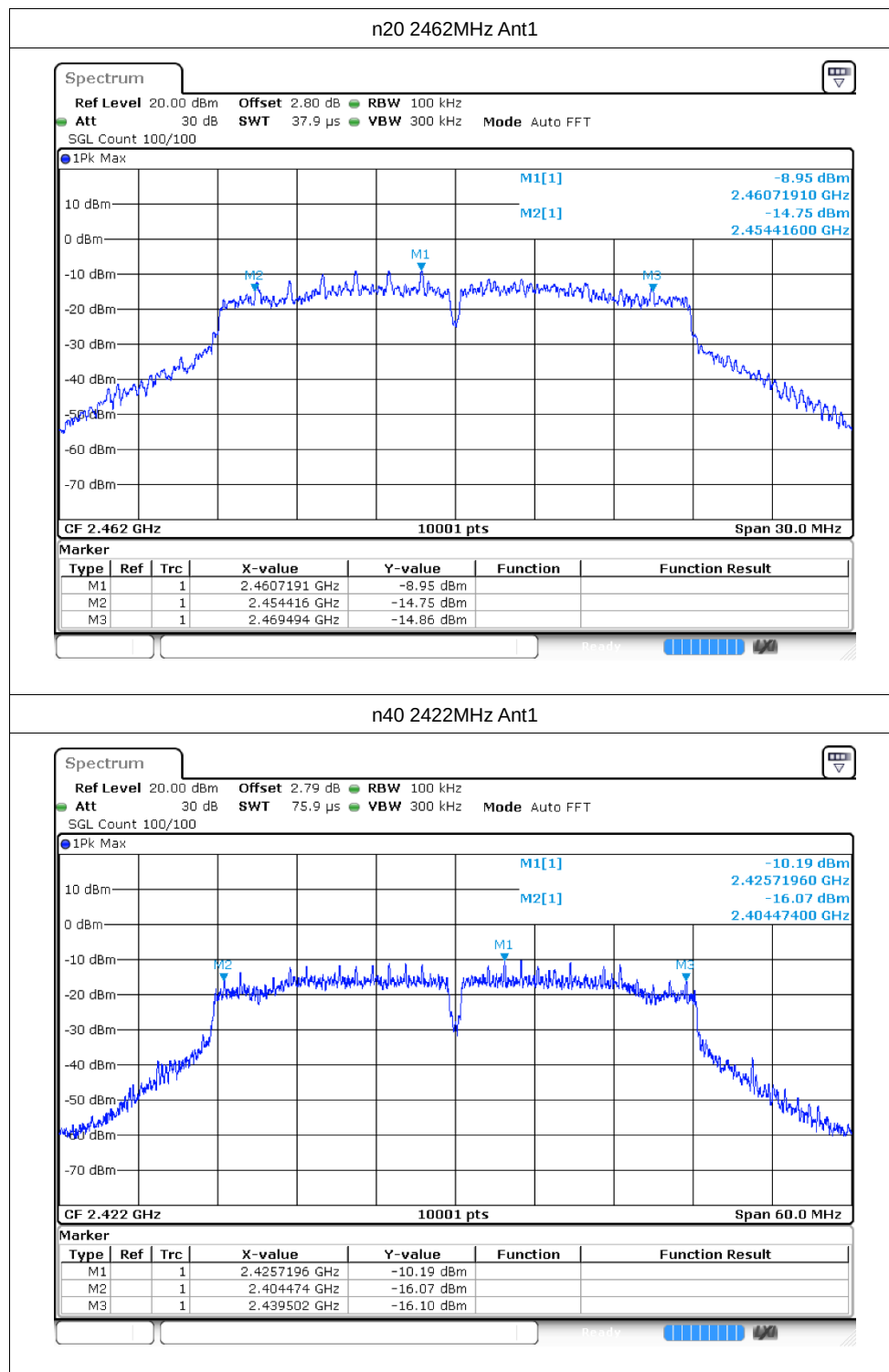
b 2437MHz Ant1

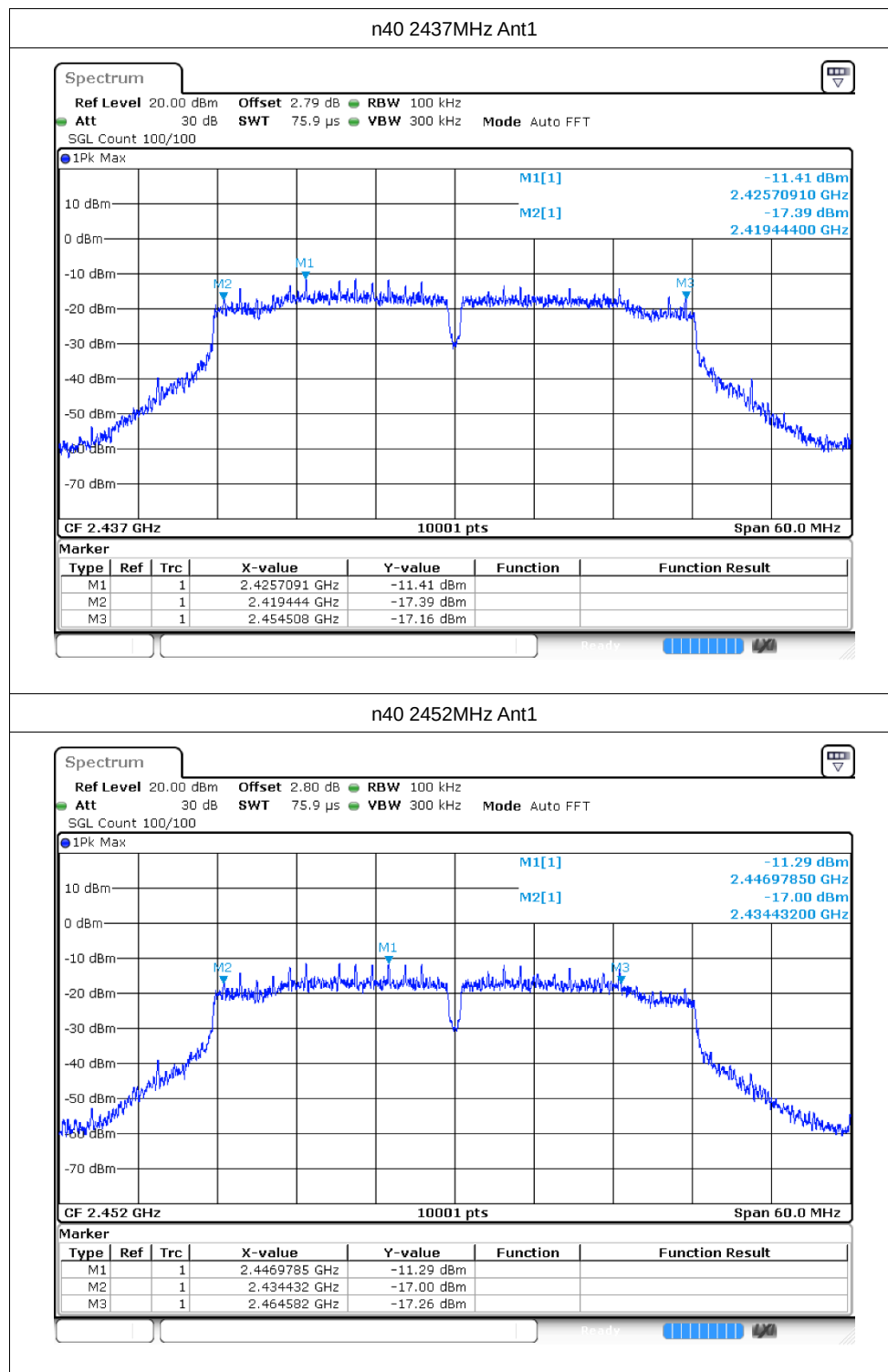




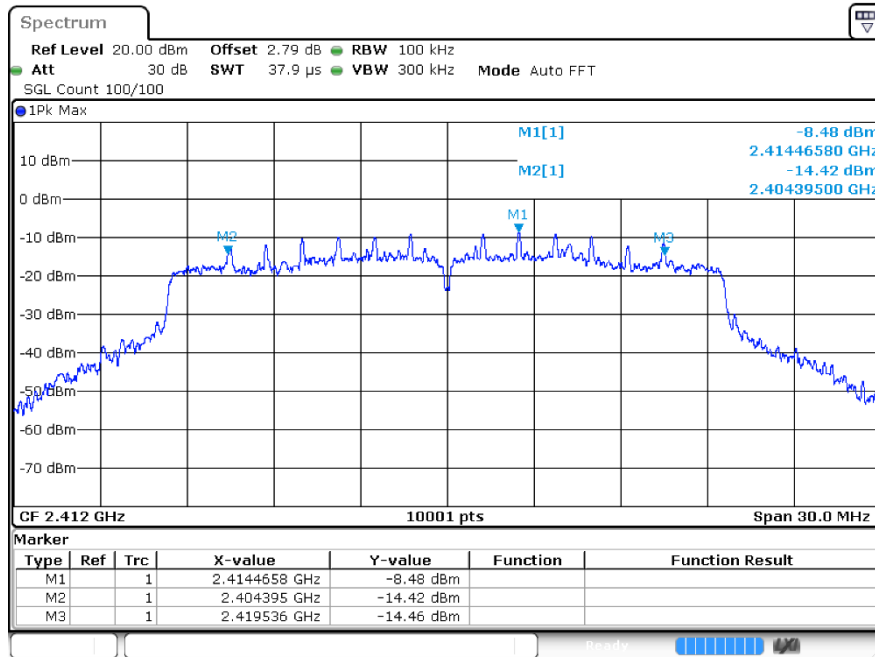




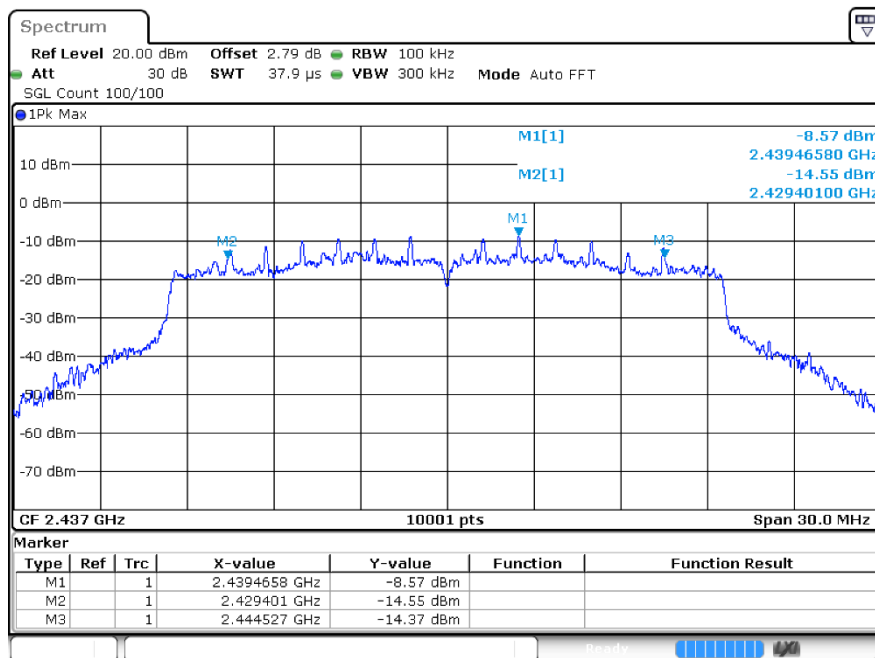


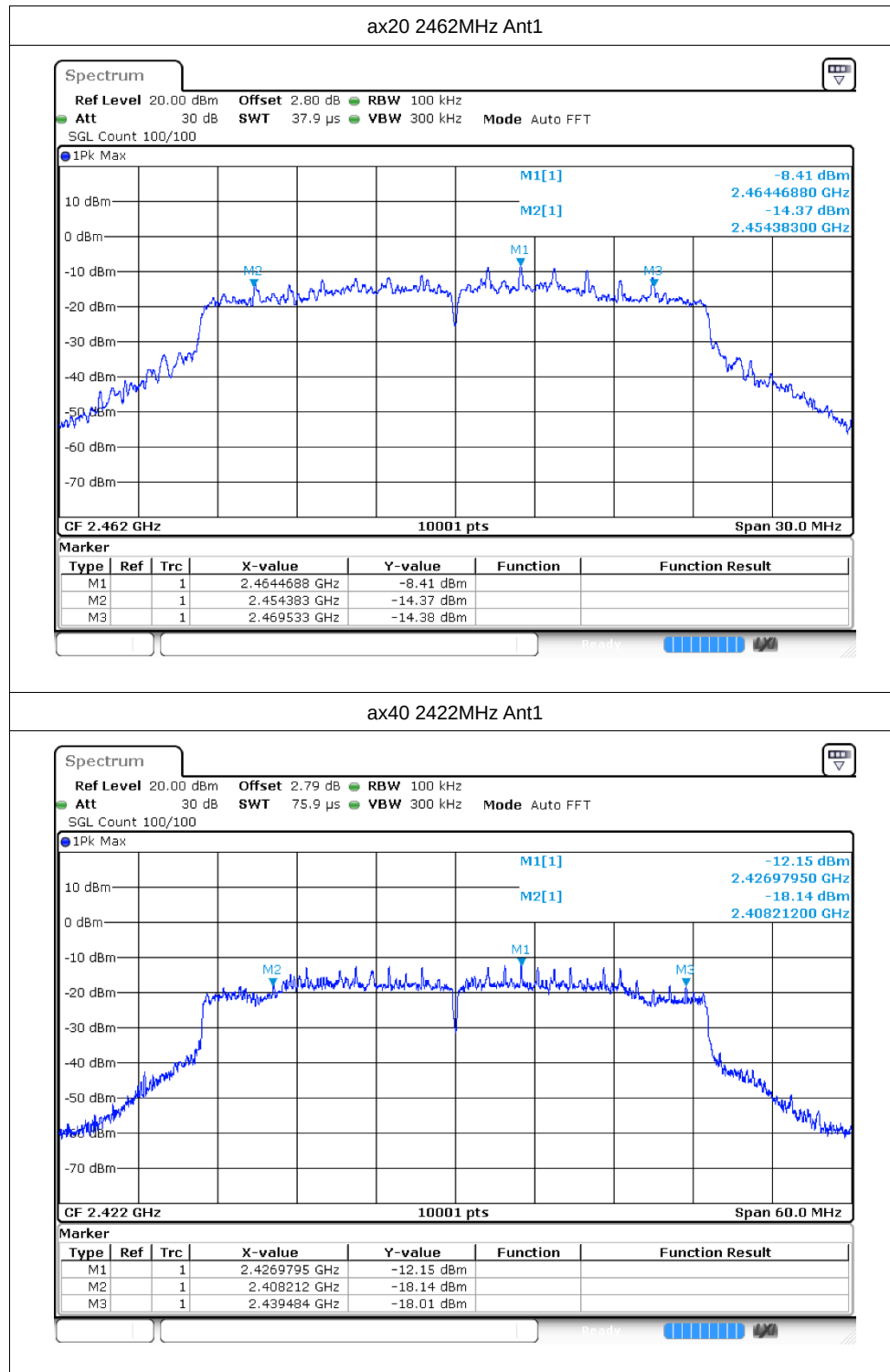


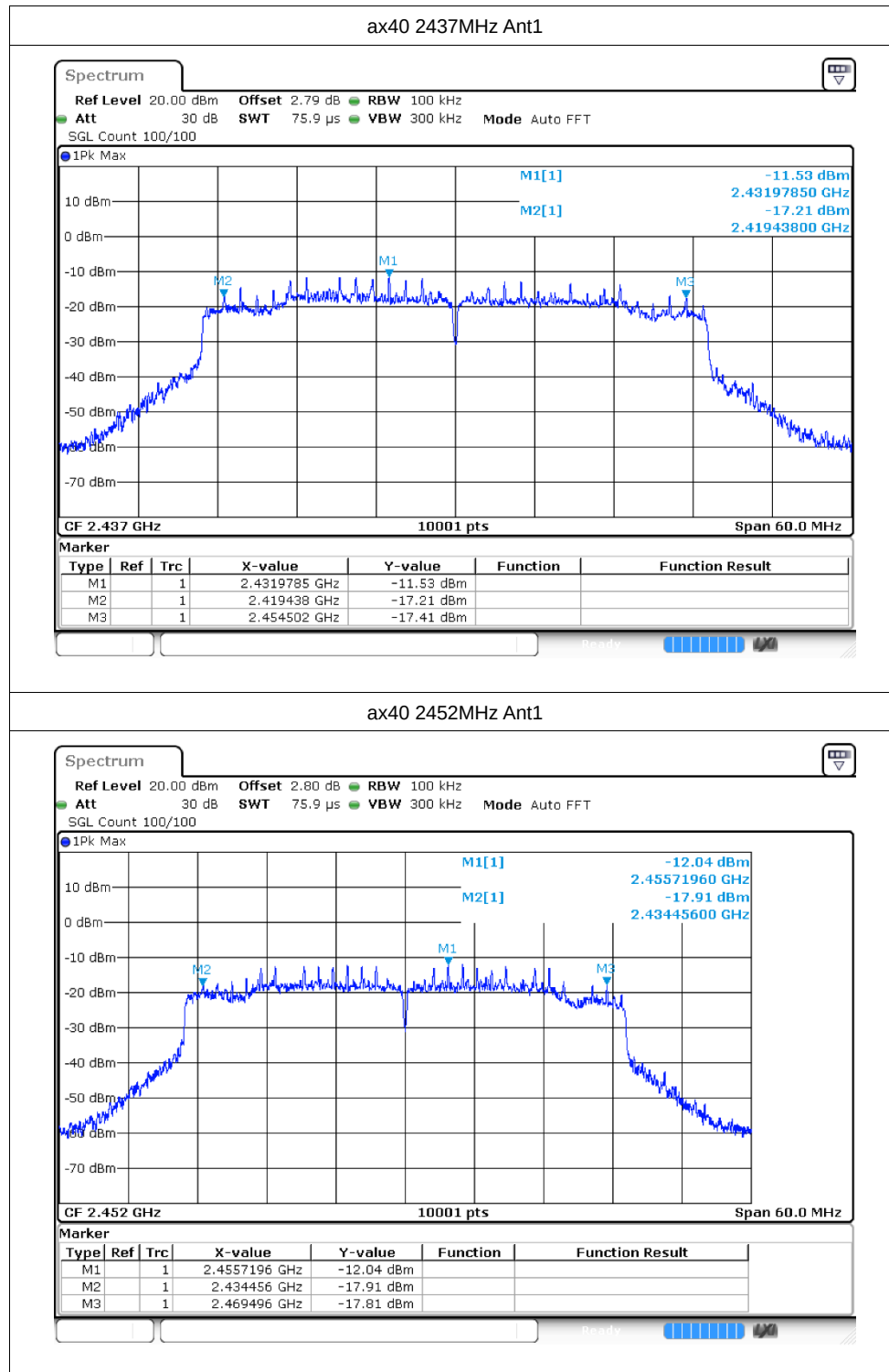
ax20 2412MHz Ant1



ax20 2437MHz Ant1







4 Maximum Power Spectral Density Level

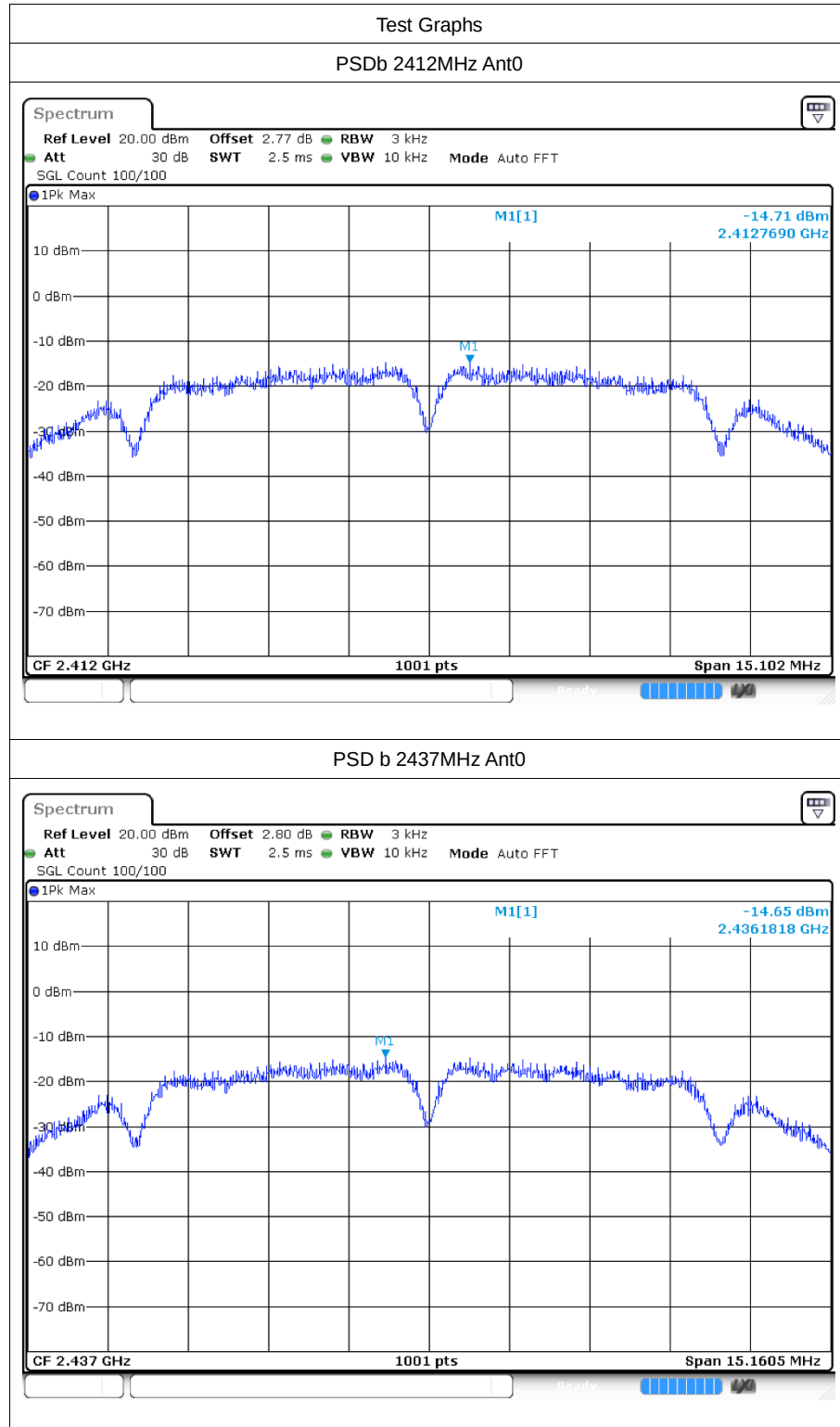
4.1 Test Result

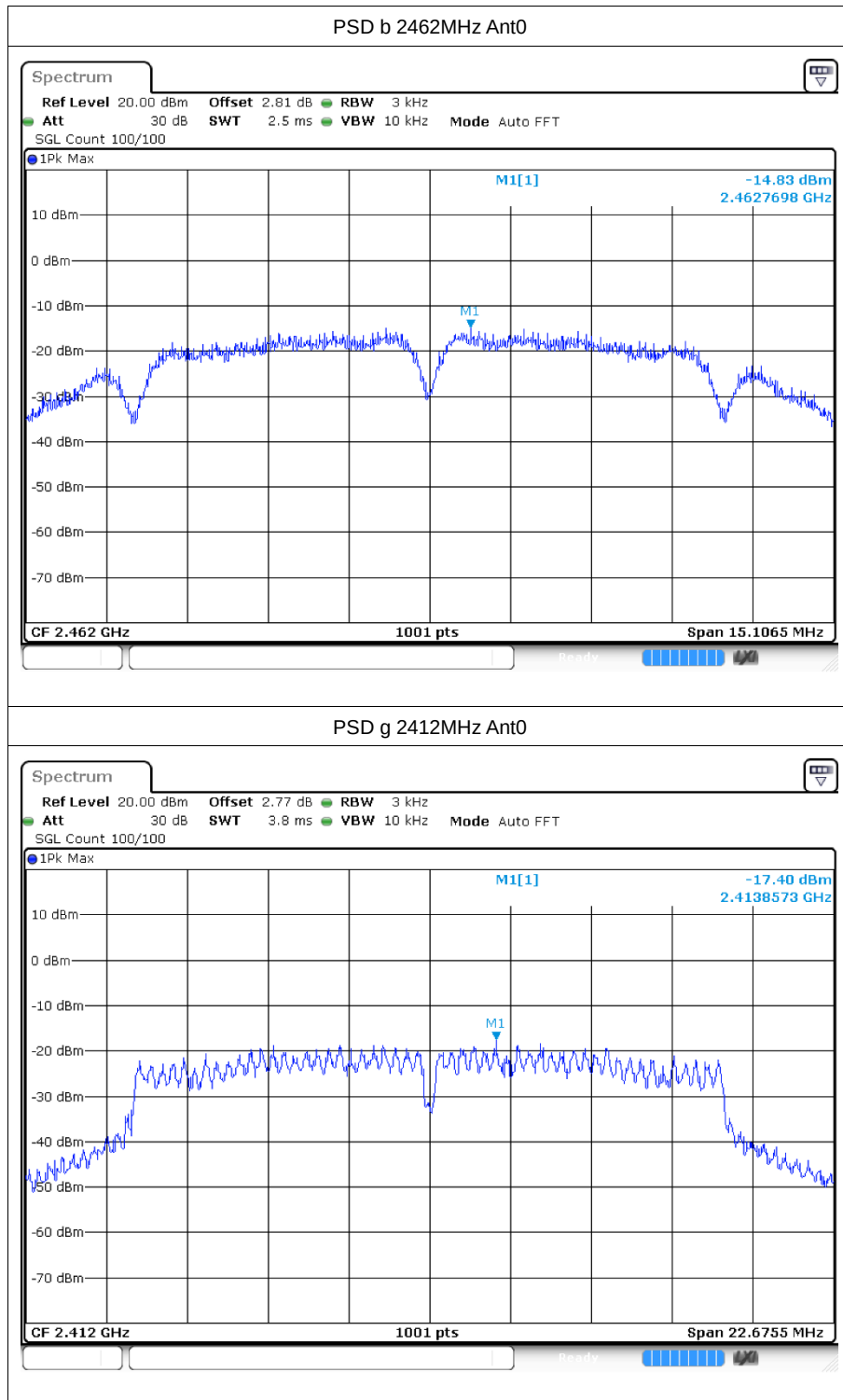
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
b	2412	Ant0	-14.71	≤8	Pass
b	2437	Ant0	-14.65	≤8	Pass
b	2462	Ant0	-14.83	≤8	Pass
g	2412	Ant0	-17.4	≤8	Pass
g	2437	Ant0	-17.4	≤8	Pass
g	2462	Ant0	-18.67	≤8	Pass
n20	2412	Ant0	-22.08	≤8	Pass
n20	2437	Ant0	-22.57	≤8	Pass
n20	2462	Ant0	-20.97	≤8	Pass
n40	2422	Ant0	-23.27	≤8	Pass
n40	2437	Ant0	-24.65	≤8	Pass
n40	2452	Ant0	-24.56	≤8	Pass
ax20	2412	Ant0	-8.08	≤8	Pass
ax20	2437	Ant0	-7.99	≤8	Pass
ax20	2462	Ant0	-7.89	≤8	Pass
ax40	2422	Ant0	-10.93	≤8	Pass
ax40	2437	Ant0	-10.85	≤8	Pass
ax40	2452	Ant0	-11.09	≤8	Pass
b	2412	Ant1	-15.37	≤8	Pass
b	2437	Ant1	-15.43	≤8	Pass
b	2462	Ant1	-15.41	≤8	Pass
g	2412	Ant1	-19.7	≤8	Pass
g	2437	Ant1	-19.92	≤8	Pass
g	2462	Ant1	-18.2	≤8	Pass
n20	2412	Ant1	-22.48	≤8	Pass
n20	2437	Ant1	-22.69	≤8	Pass
n20	2462	Ant1	-22.65	≤8	Pass
n40	2422	Ant1	-24.9	≤8	Pass
n40	2437	Ant1	-25.82	≤8	Pass
n40	2452	Ant1	-25.03	≤8	Pass
ax20	2412	Ant1	-9.58	≤8	Pass
ax20	2437	Ant1	-8.75	≤8	Pass
ax20	2462	Ant1	-8.6	≤8	Pass

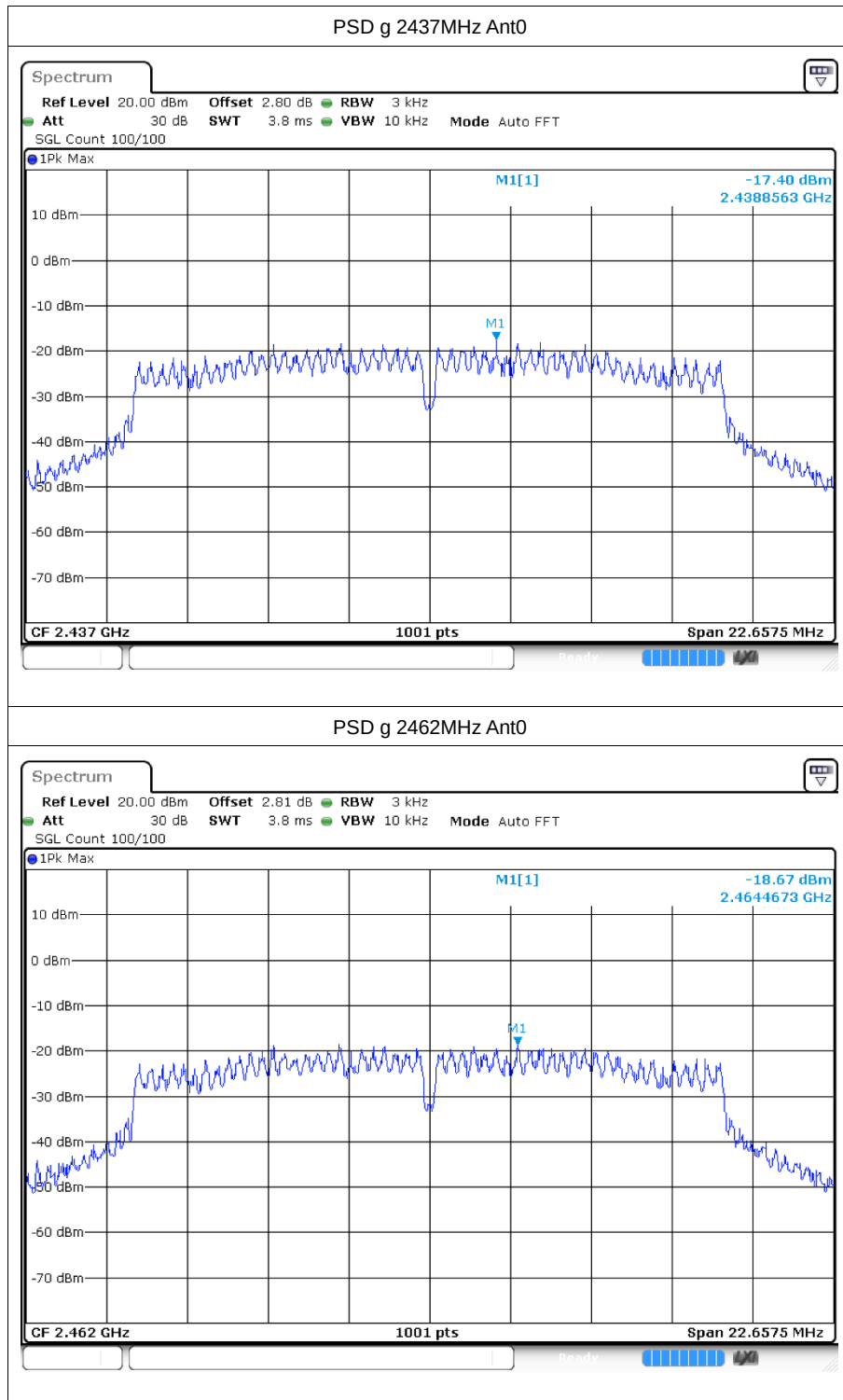


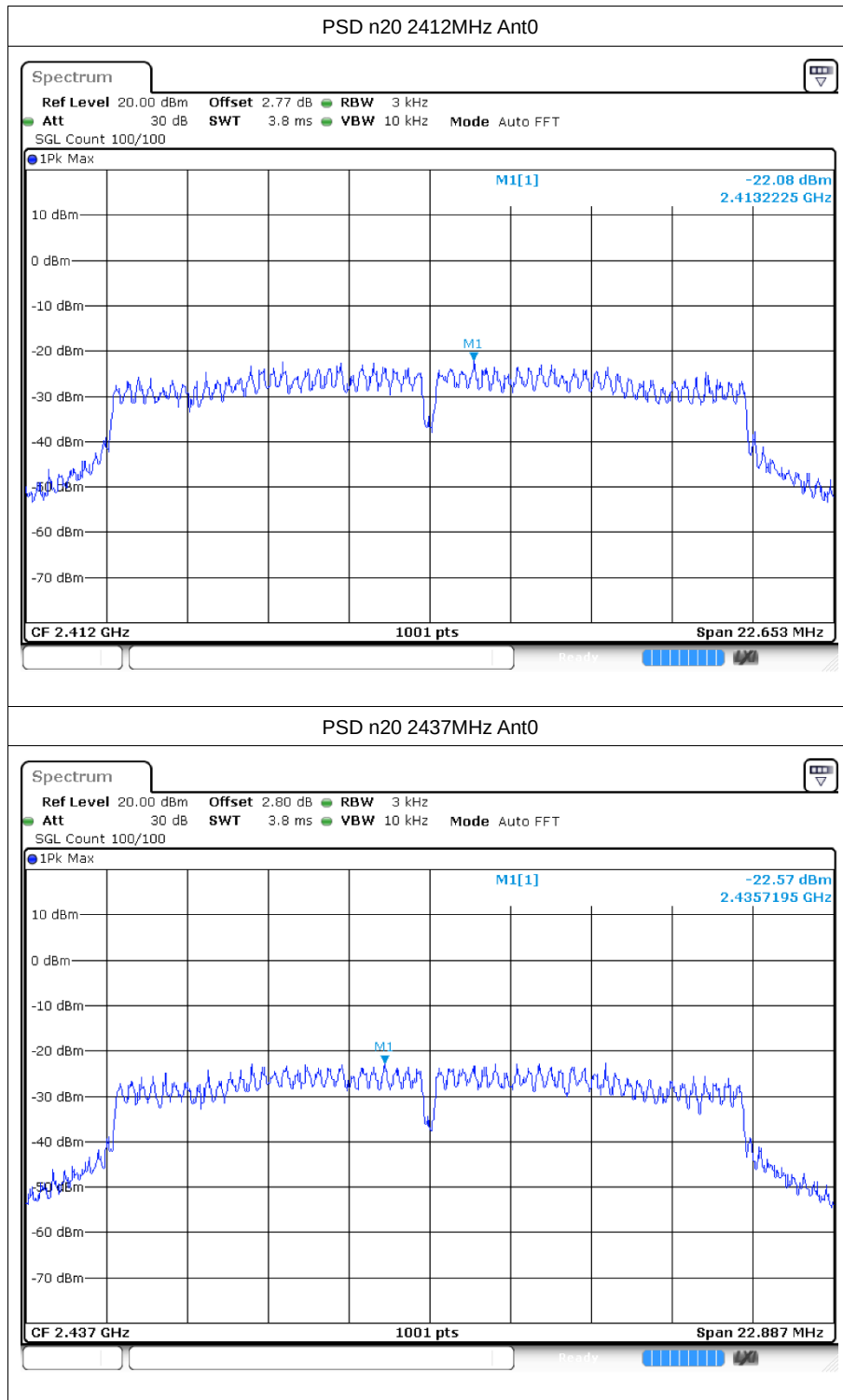
ax40	2422	Ant1	-11.77	≤ 8	Pass
ax40	2437	Ant1	-11.5	≤ 8	Pass
ax40	2452	Ant1	-12.05	≤ 8	Pass

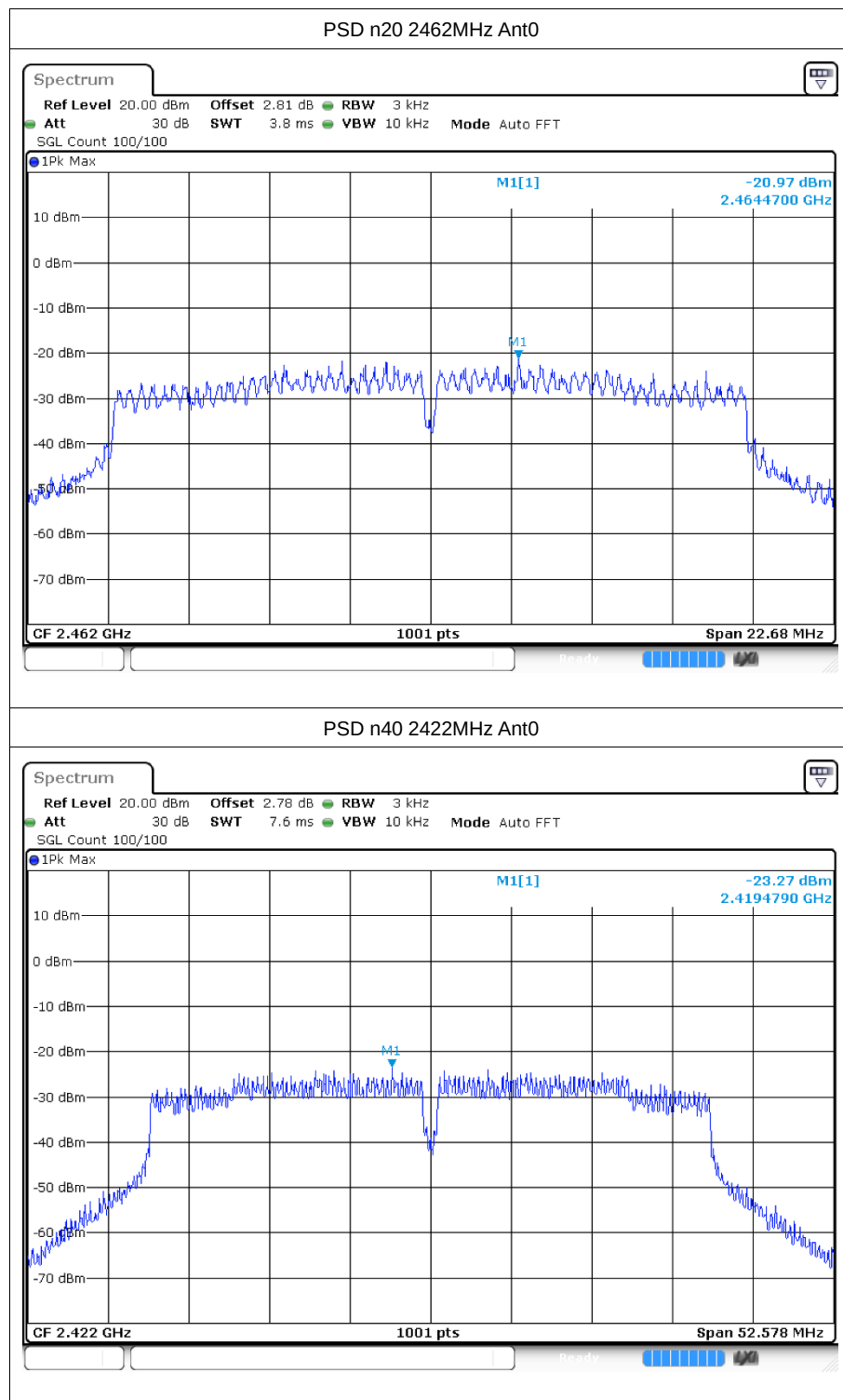
4.2 Test Graphs

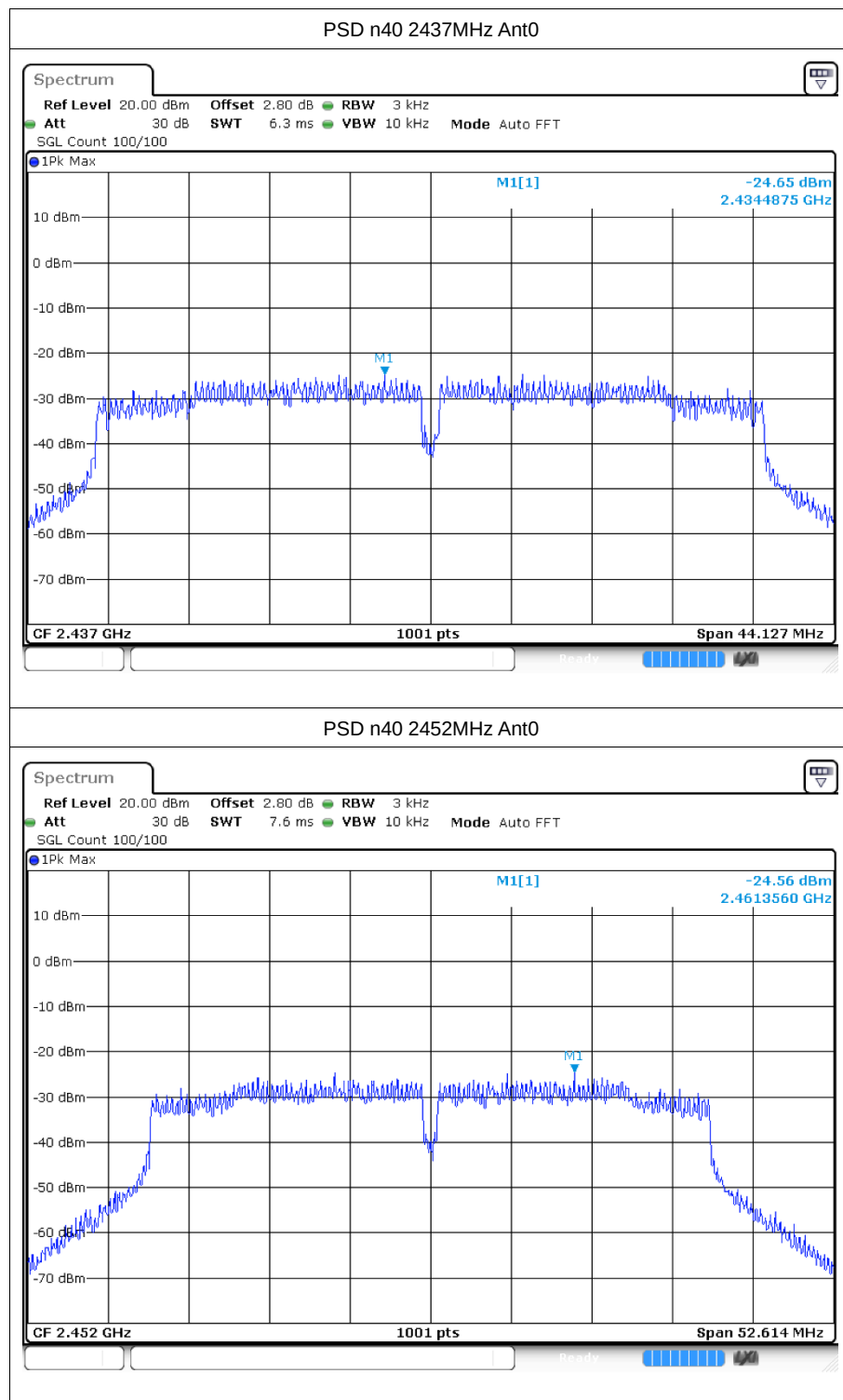




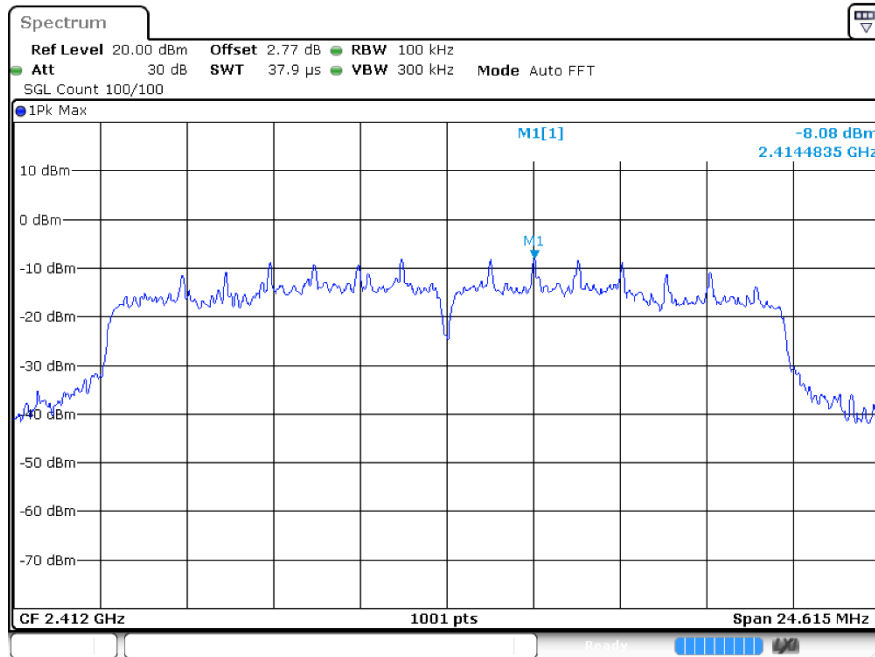




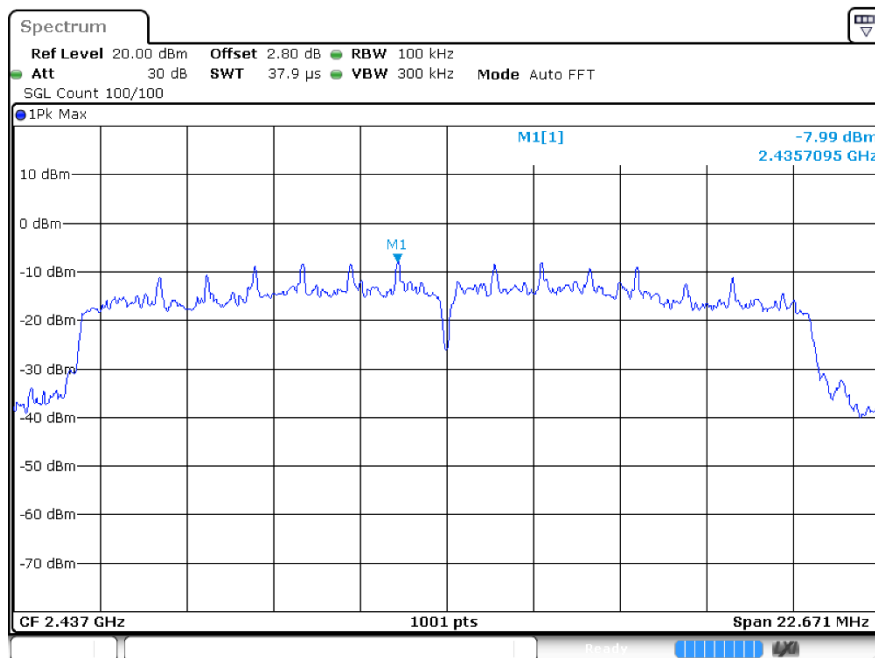


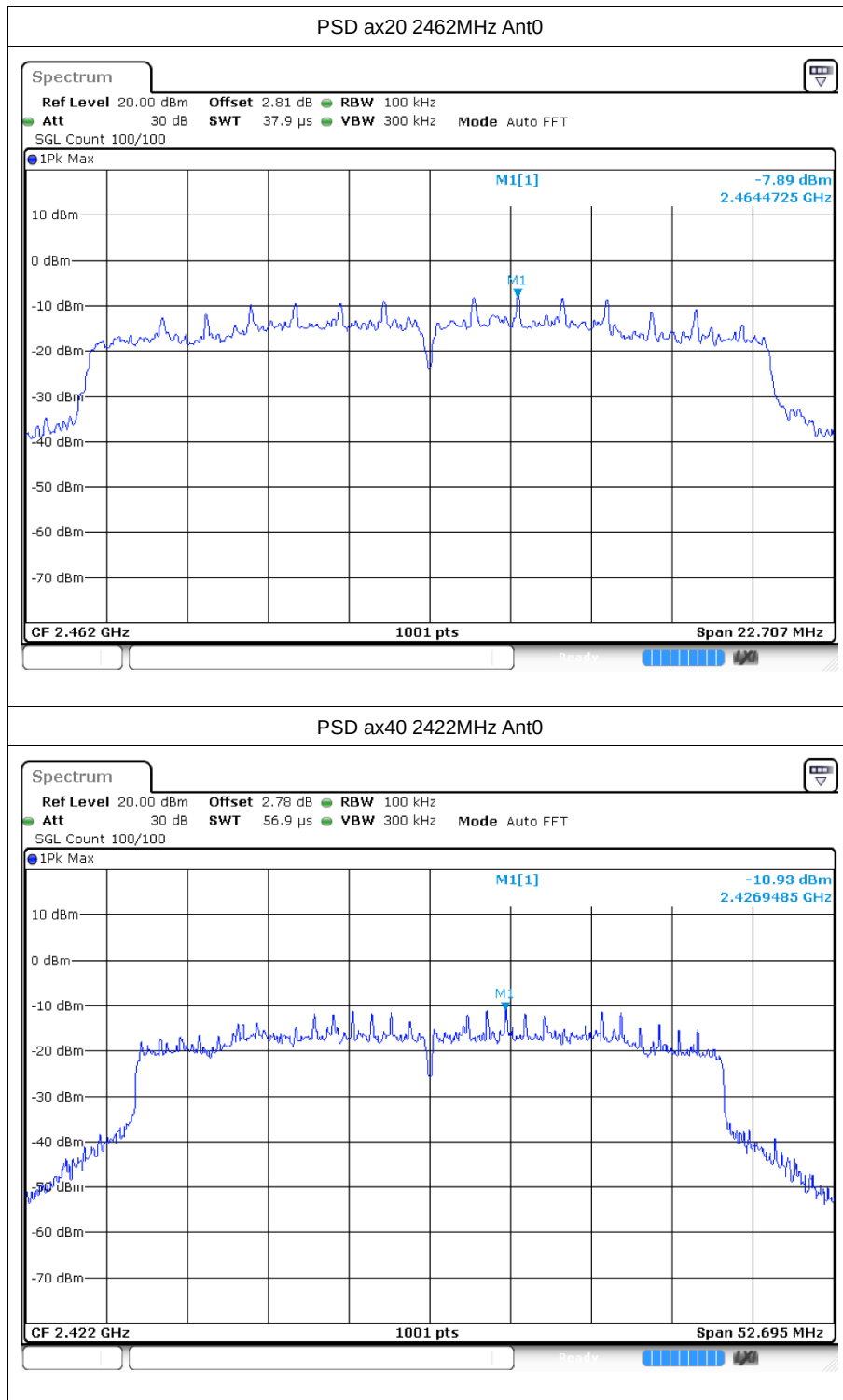


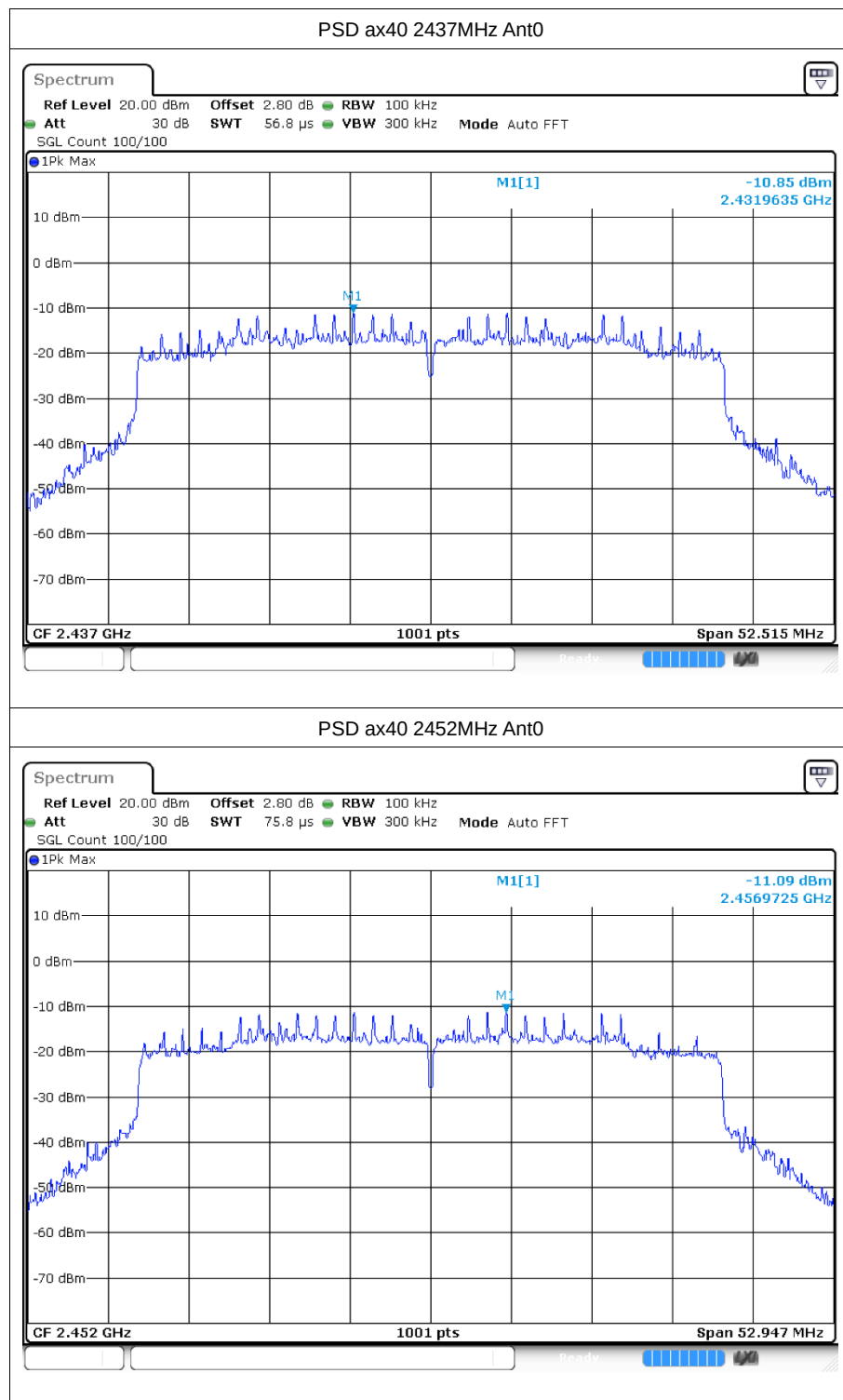
PSD ax20 2412MHz Ant0

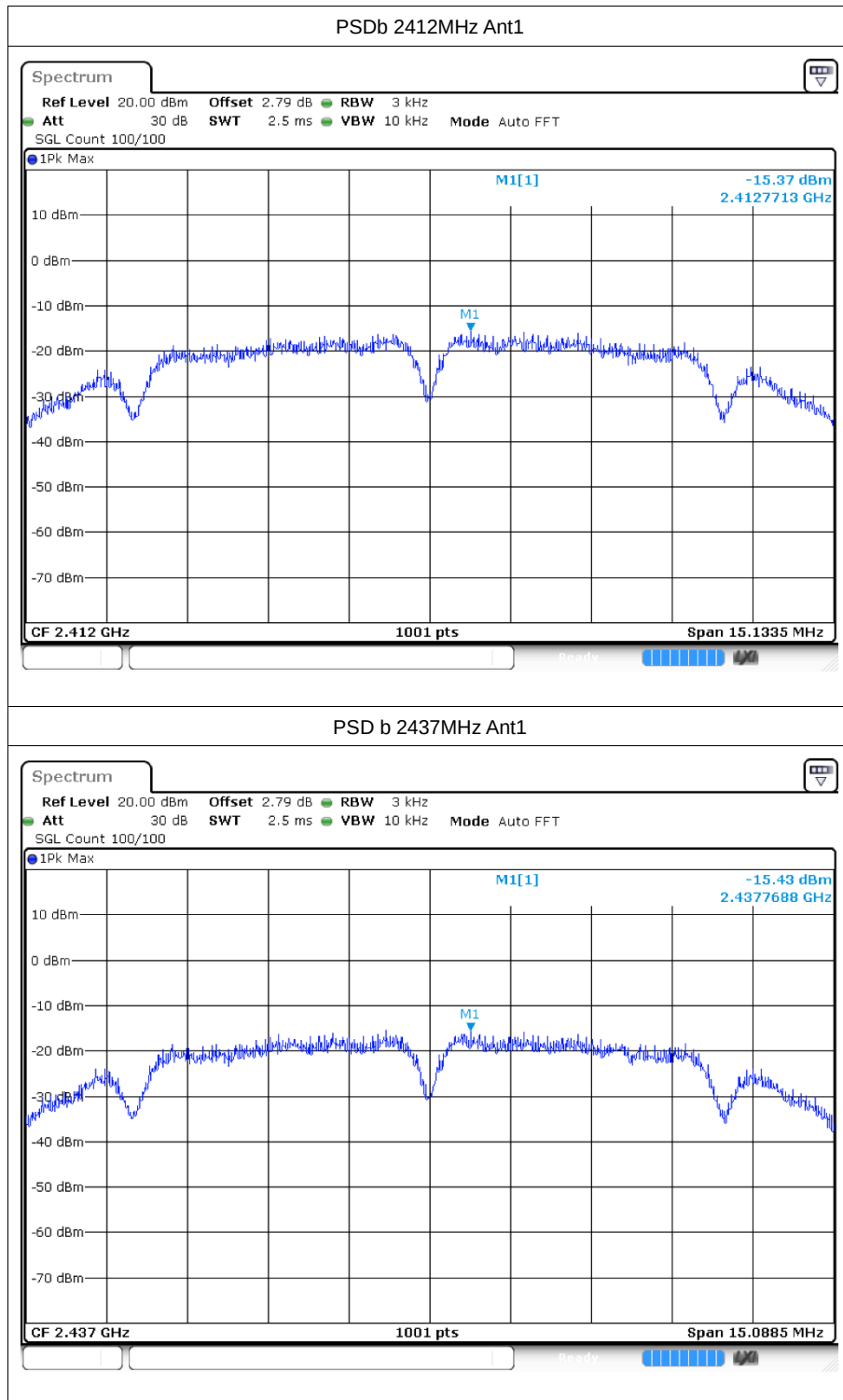


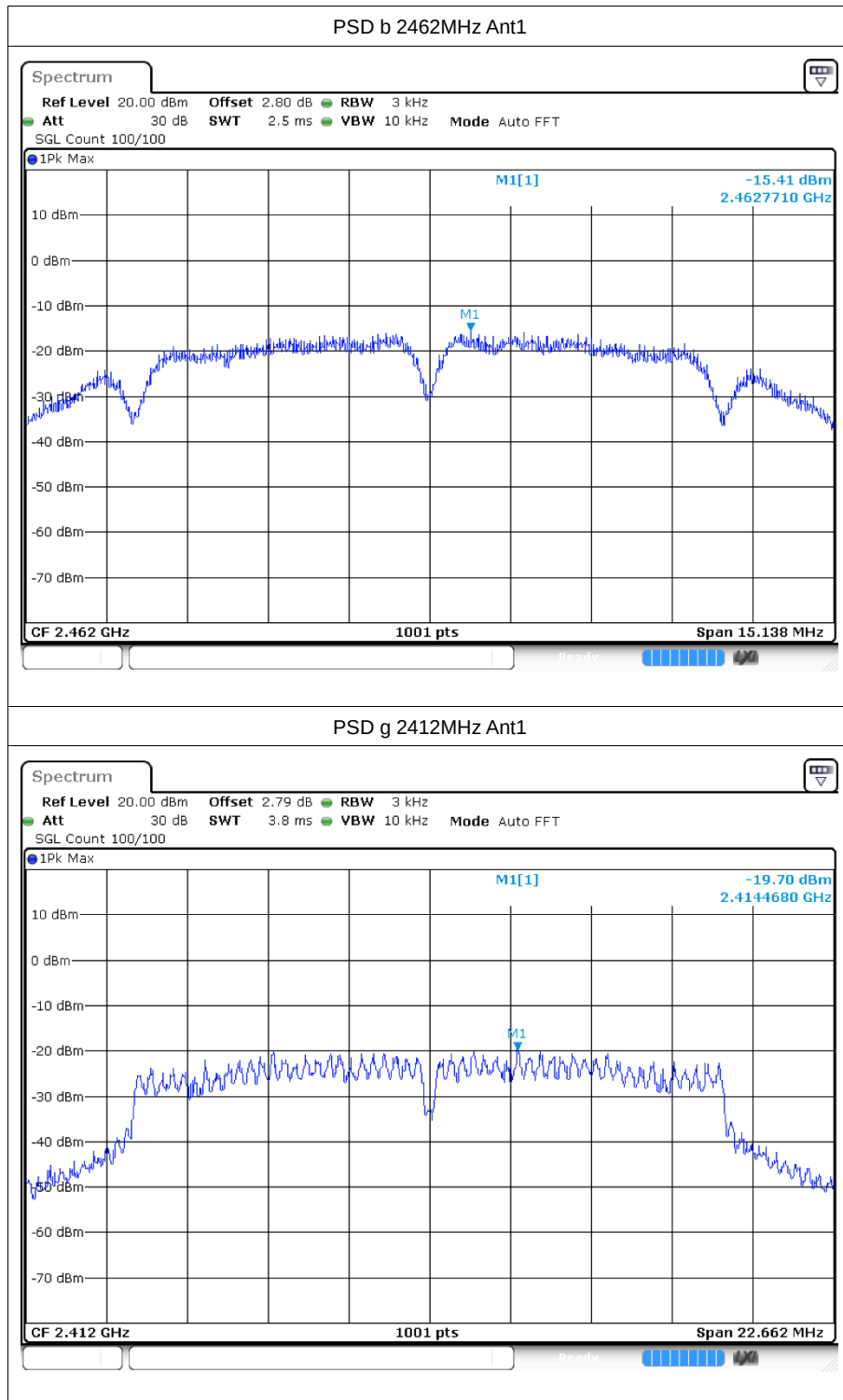
PSD ax20 2437MHz Ant0

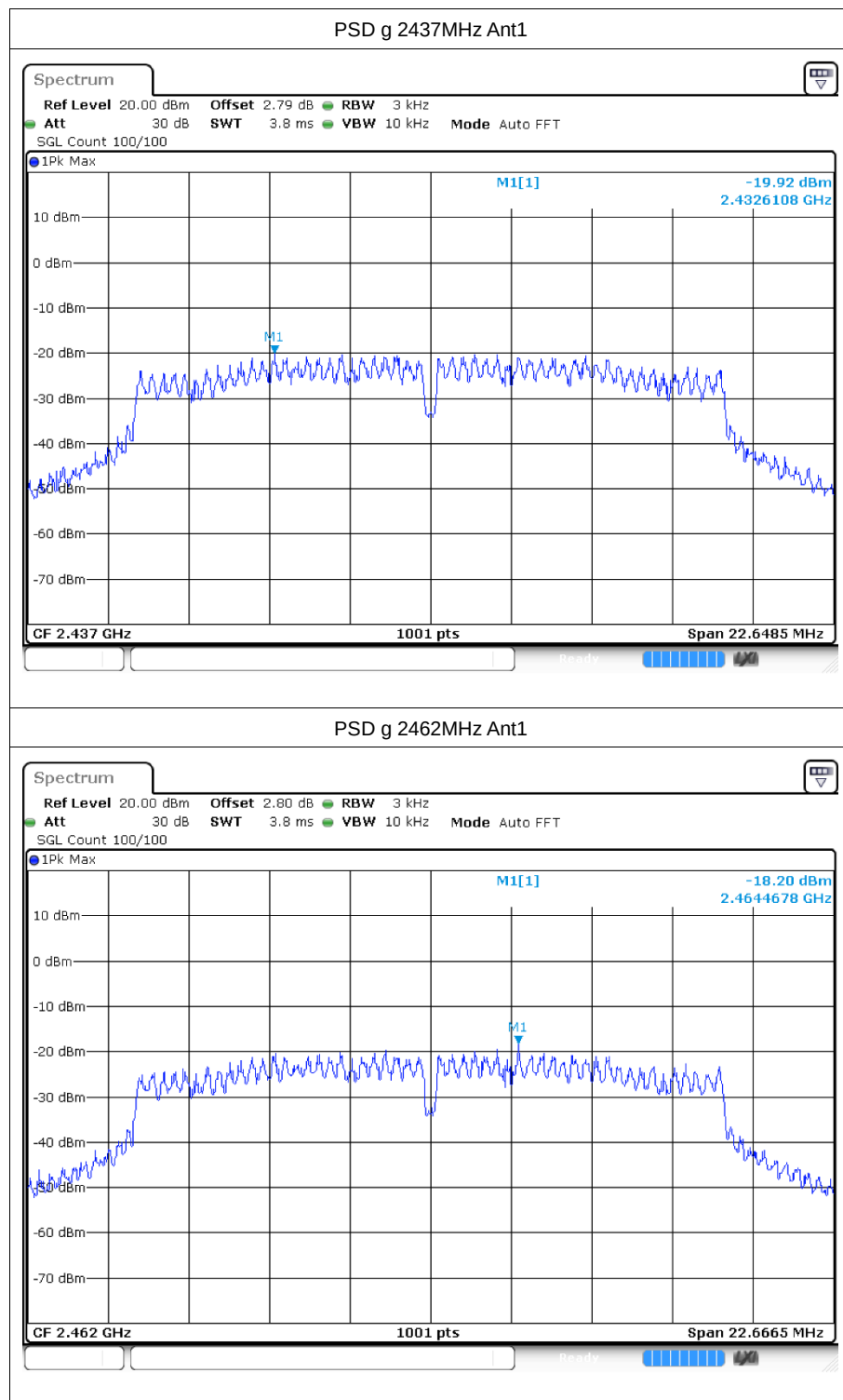


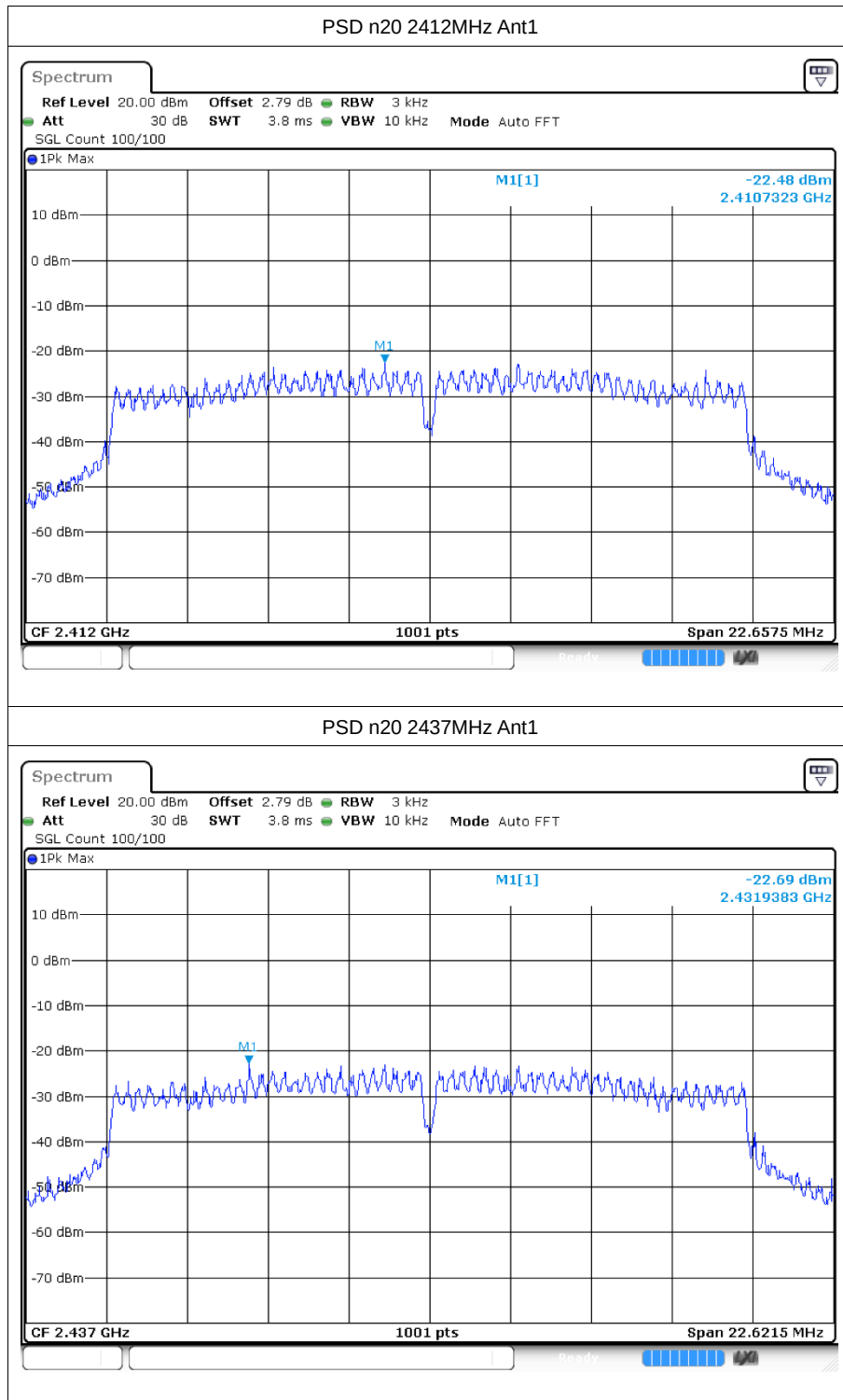


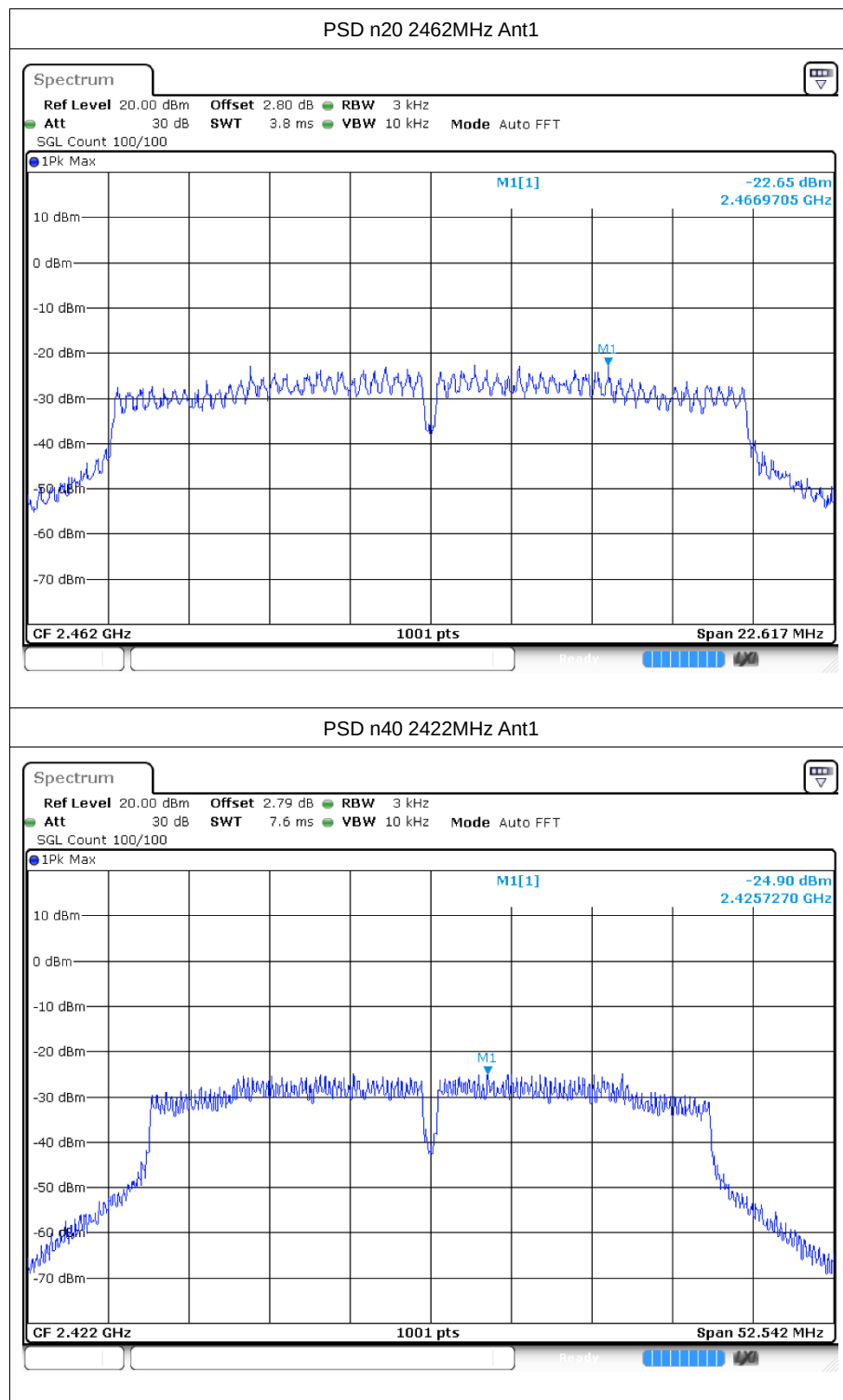


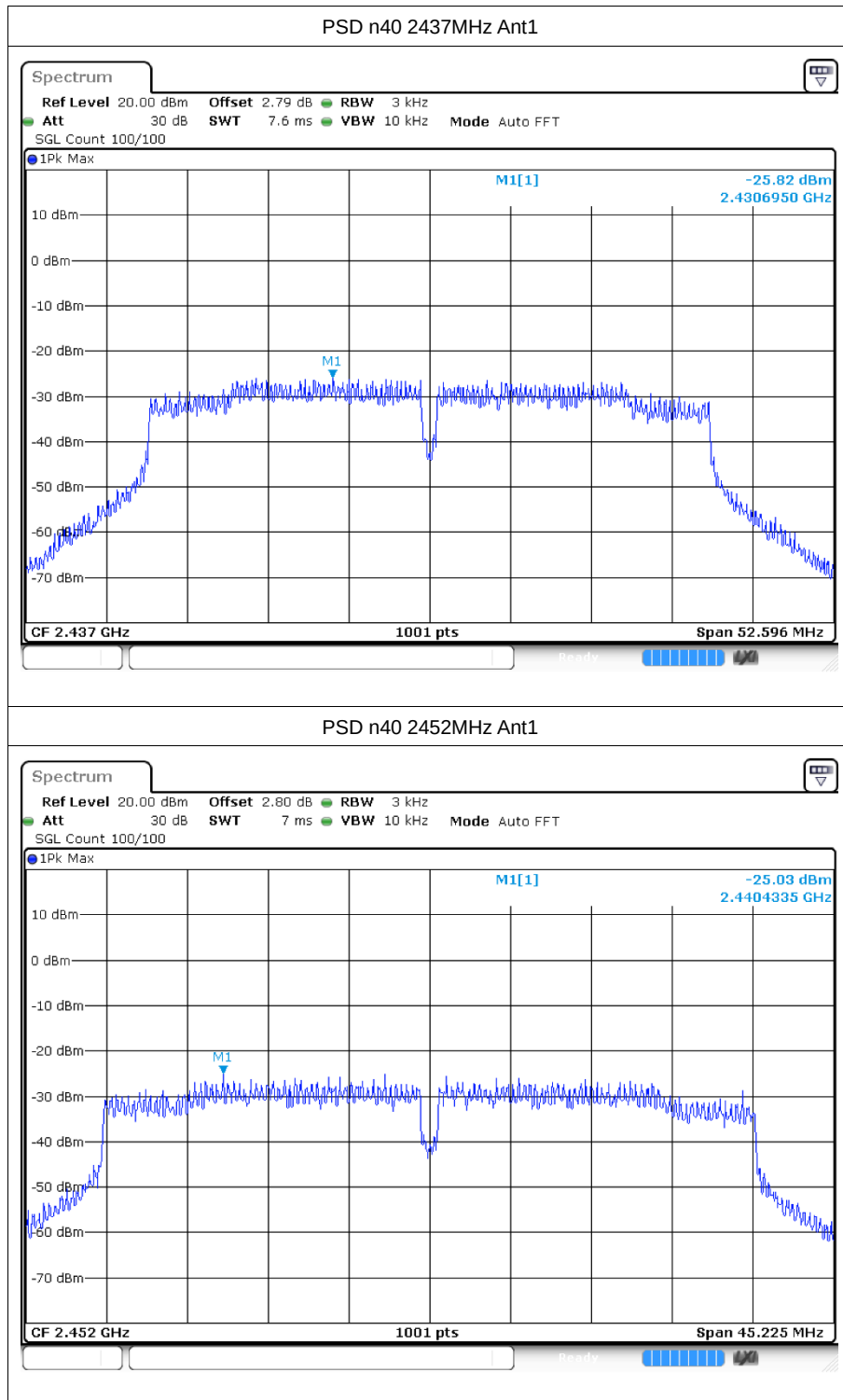




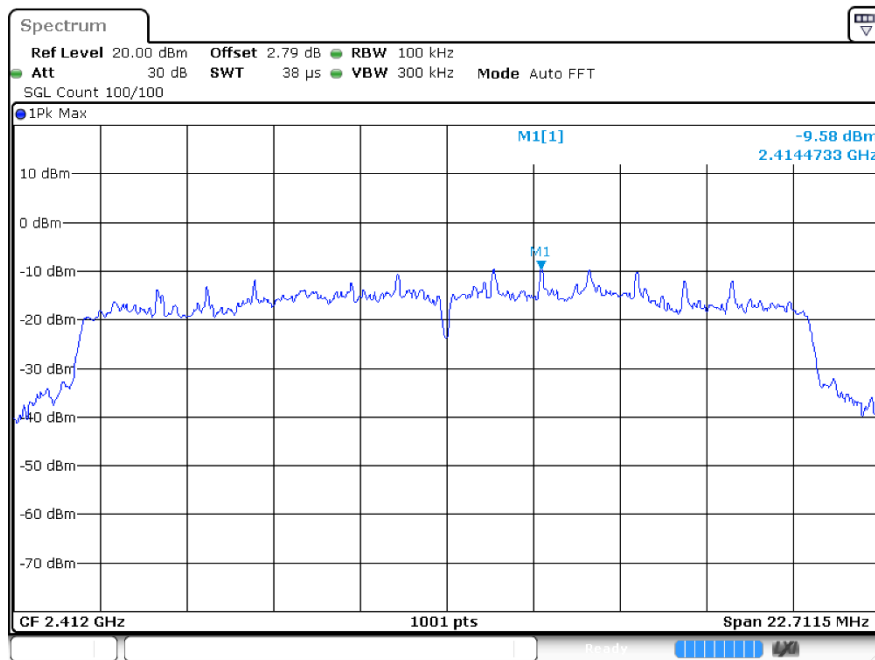




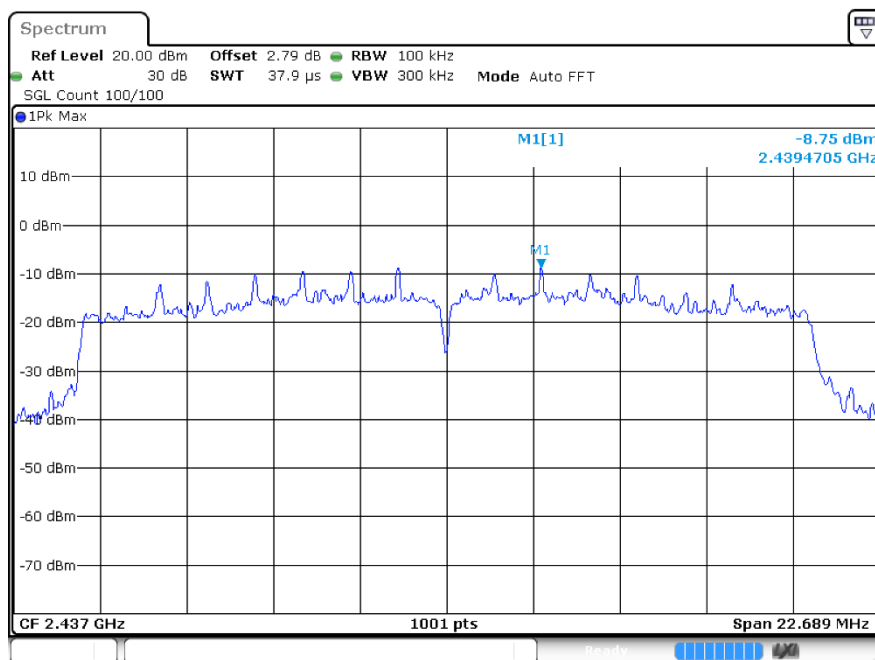


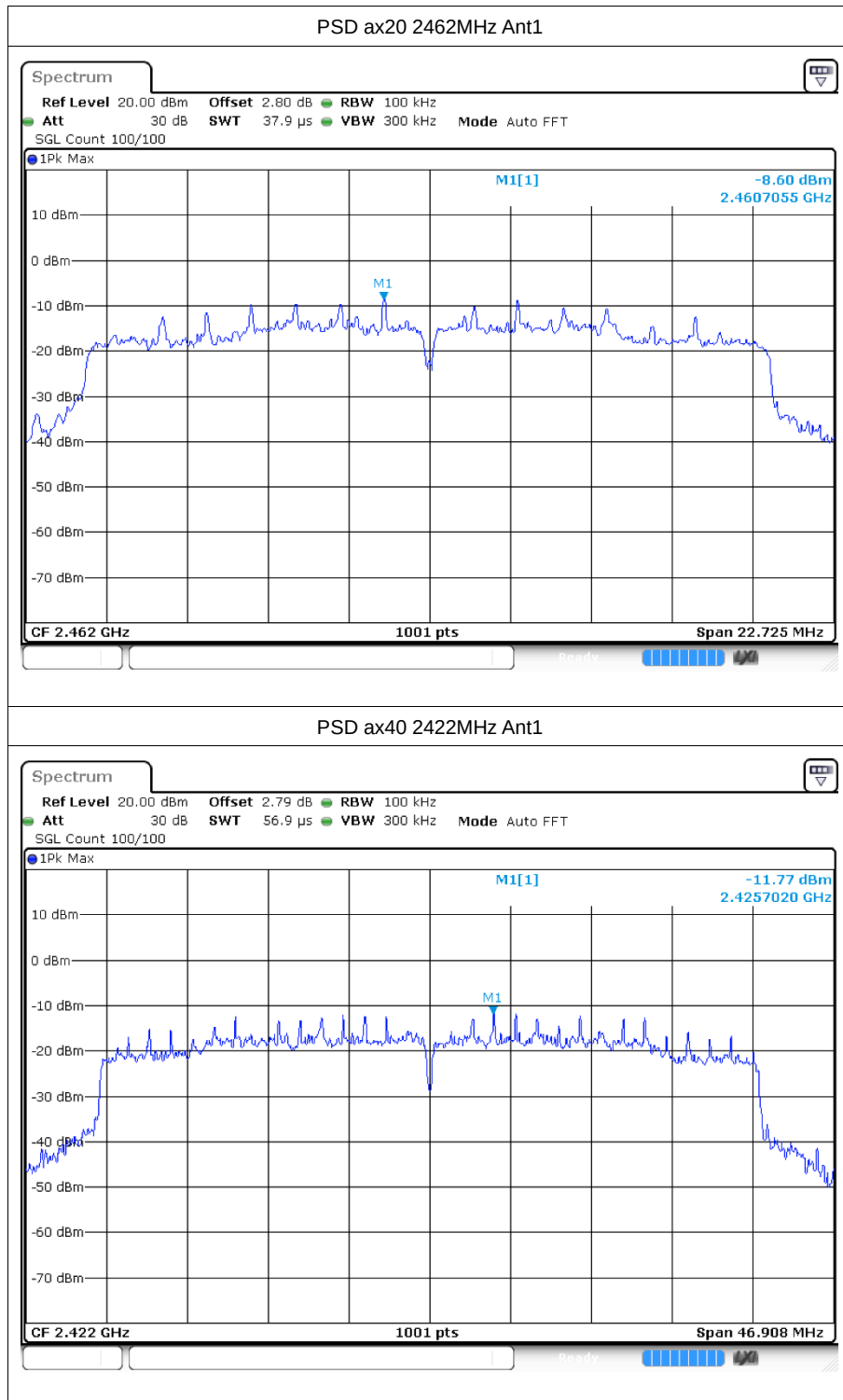


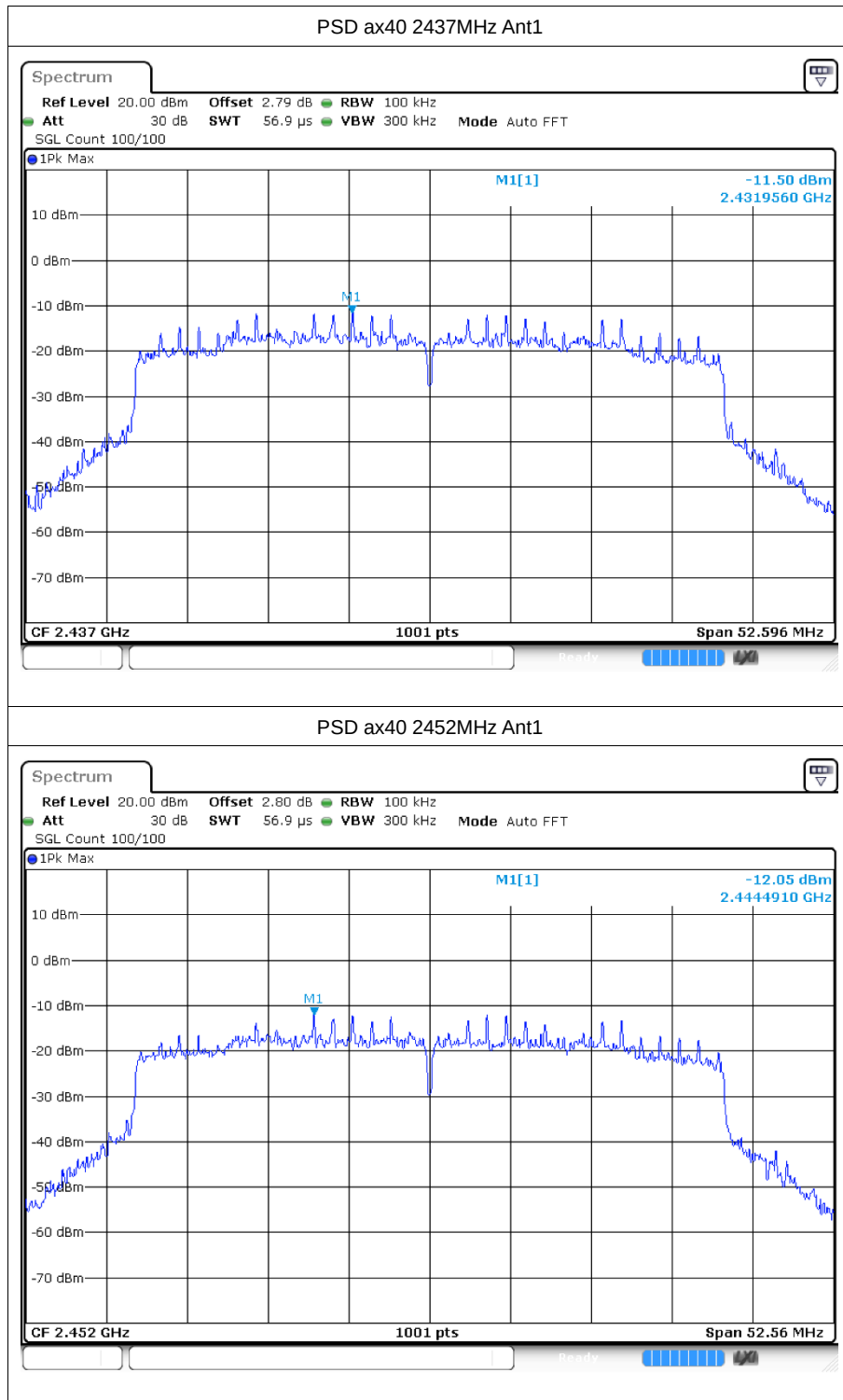
PSD ax20 2412MHz Ant1



PSD ax20 2437MHz Ant1









5 Band Edge

5.1 Test Result

Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant0	-53.89	-20	-53.89
b	2462	Ant0	-54.5	-20	Pass
g	2412	Ant0	-51.8	-20	Pass
g	2462	Ant0	-53.09	-20	Pass
n20	2412	Ant0	-47.18	-20	Pass
n20	2462	Ant0	-47.86	-20	Pass
n40	2422	Ant0	-44.76	-20	Pass
n40	2452	Ant0	-44.51	-20	Pass
ax20	2412	Ant0	-46.96	-20	Pass
ax20	2462	Ant0	-48.34	-20	Pass
ax40	2422	Ant0	-45.14	-20	Pass
ax40	2452	Ant0	-45.81	-20	Pass
b	2412	Ant1	-52.52	-20	-52.52
b	2462	Ant1	-54.07	-20	Pass
g	2412	Ant1	-48.86	-20	Pass
g	2462	Ant1	-51.17	-20	Pass
n20	2412	Ant1	-46.42	-20	Pass
n20	2462	Ant1	-47.9	-20	Pass
n40	2422	Ant1	-46.21	-20	Pass
n40	2452	Ant1	-44.68	-20	Pass
ax20	2412	Ant1	-45.58	-20	Pass
ax20	2462	Ant1	-46.99	-20	Pass
ax40	2422	Ant1	-44.76	-20	Pass
ax40	2452	Ant1	-43.82	-20	Pass

5.2 Test Graphs

