



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: PRESSURE BOOSTER FAN

Trade Mark: N/A

Test Model: ZY-410 WIFI

Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Emiya lin
Supervised by:	Simba Haung



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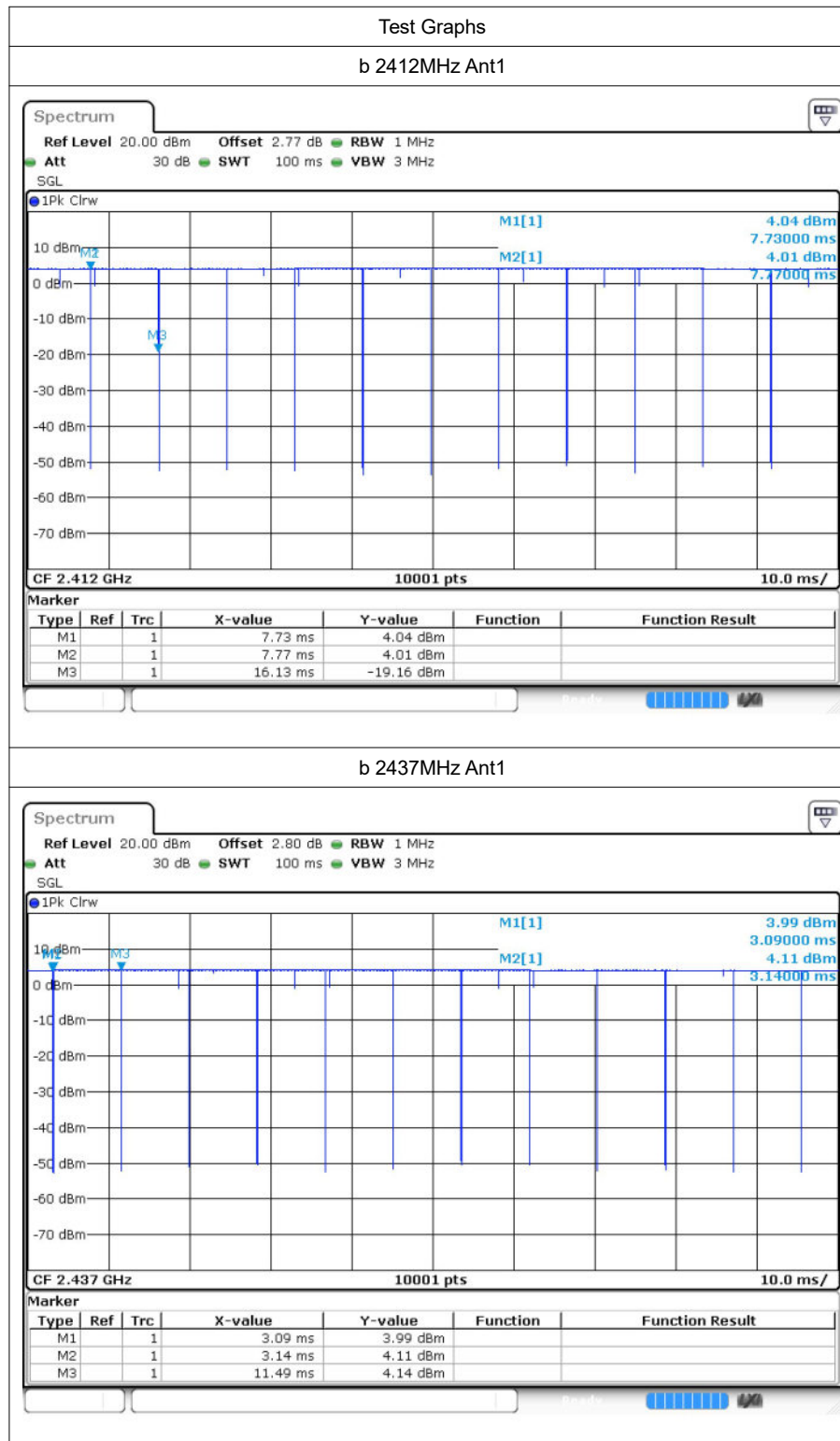


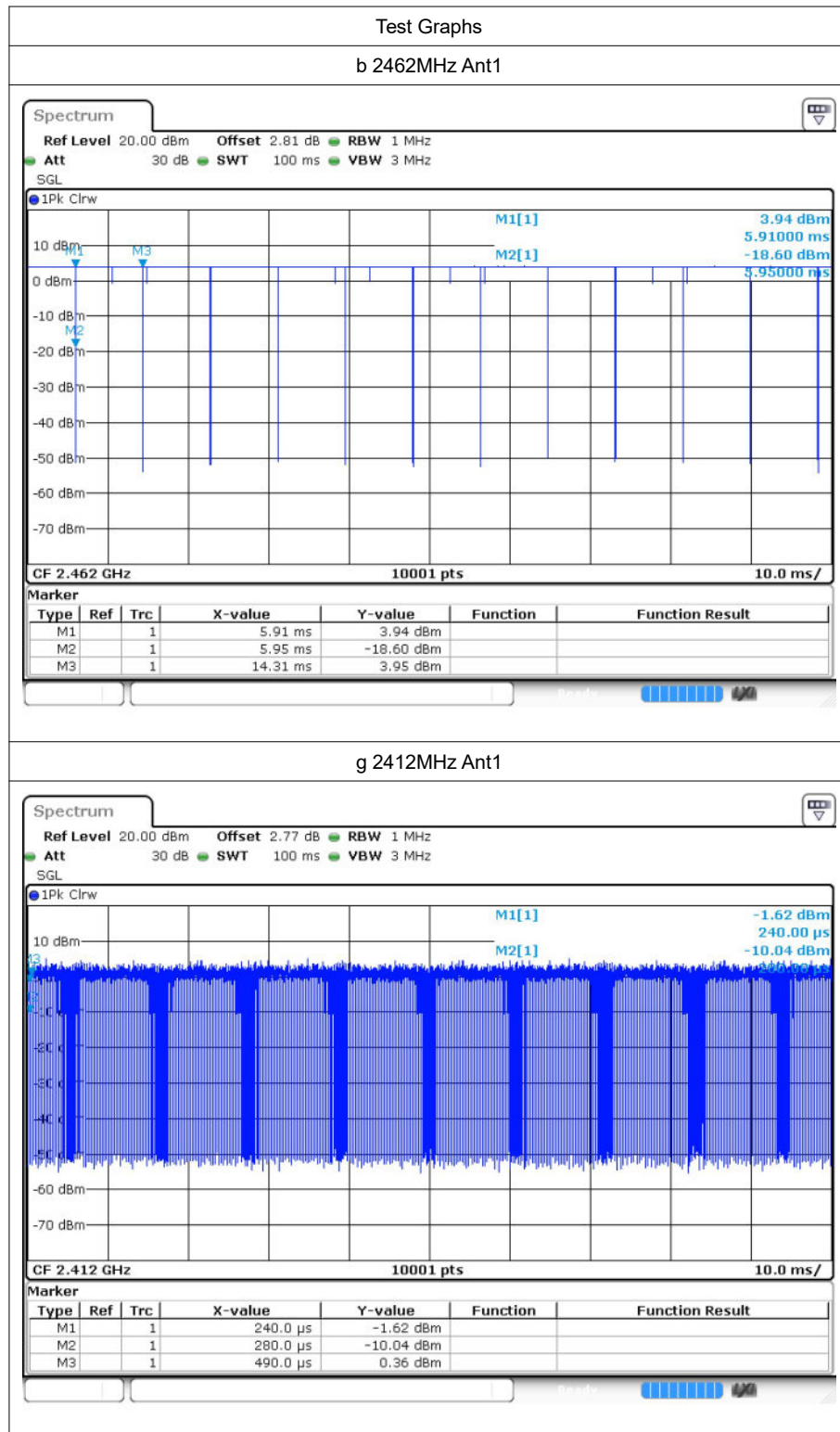
1 Duty Cycle

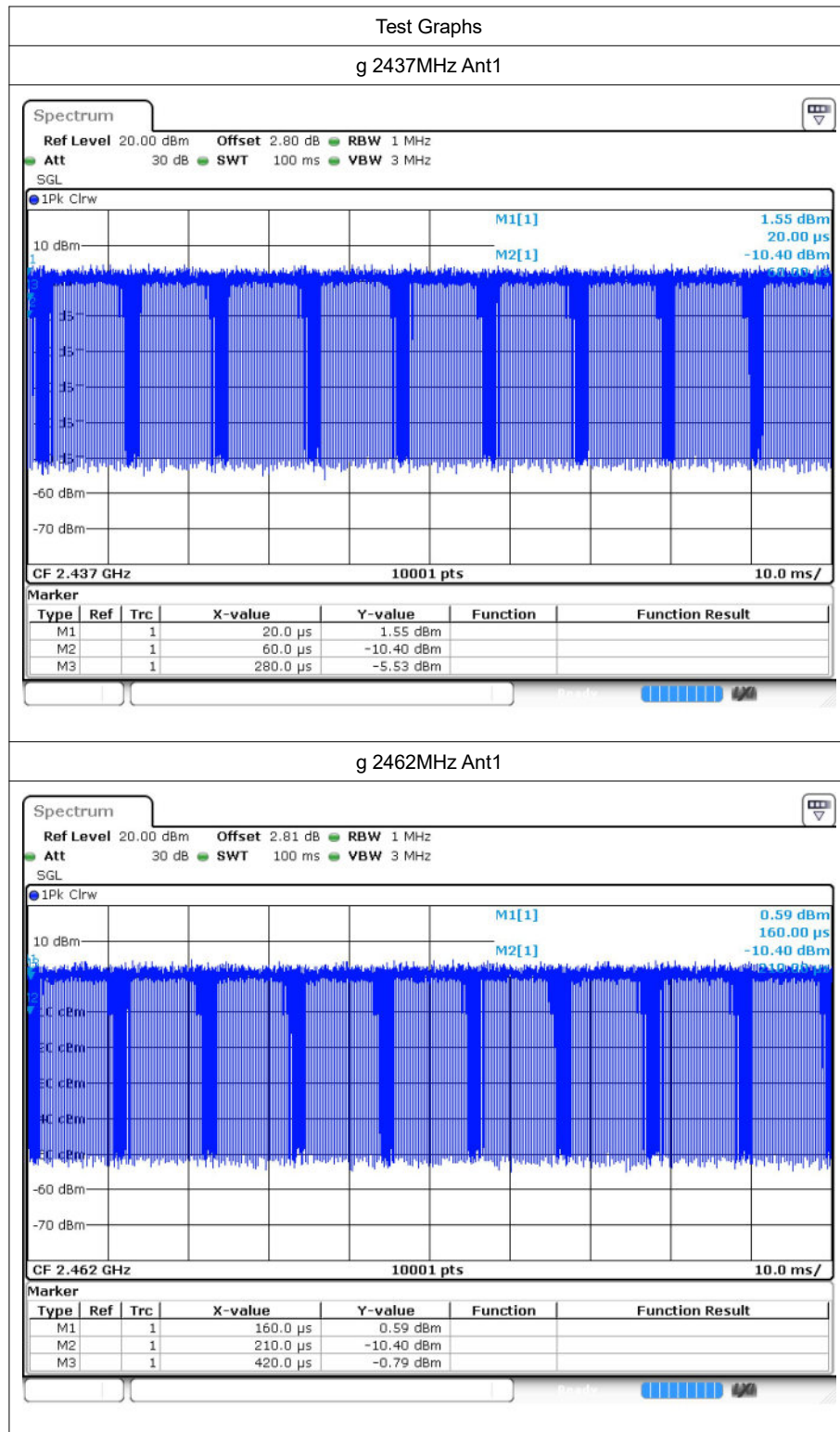
1.1 Test Result

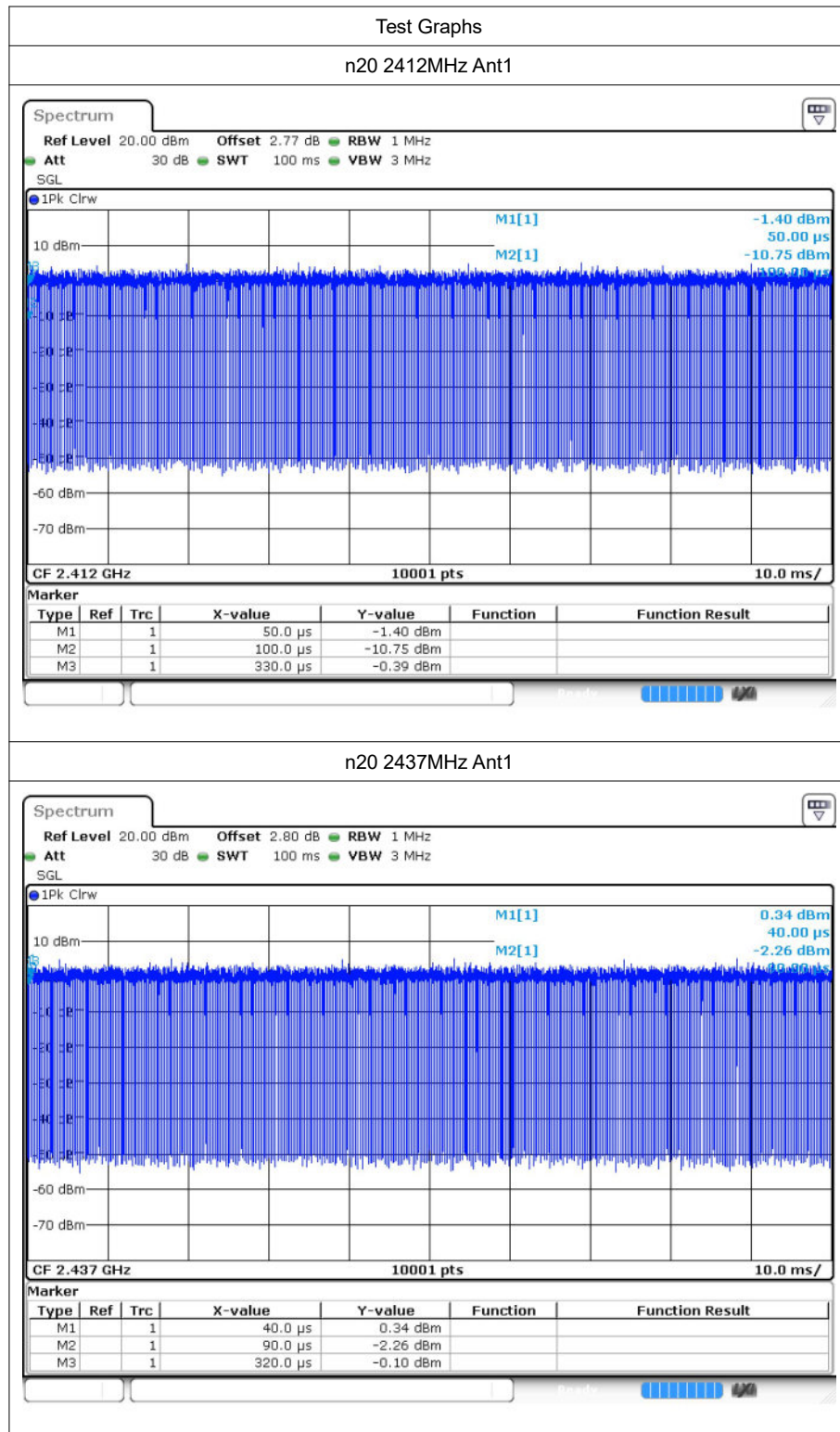
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor	1/T (kHz)
b	2412	Ant1	99.65	0.02	0.12
b	2437	Ant1	99.59	0.02	0.12
b	2462	Ant1	99.6	0.02	0.12
g	2412	Ant1	86.98	0.61	4.76
g	2437	Ant1	86.9	0.61	4.55
g	2462	Ant1	86.93	0.61	4.76
n20	2412	Ant1	87.61	0.57	4.35
n20	2437	Ant1	87.57	0.58	4.35
n20	2462	Ant1	87.59	0.58	4.35

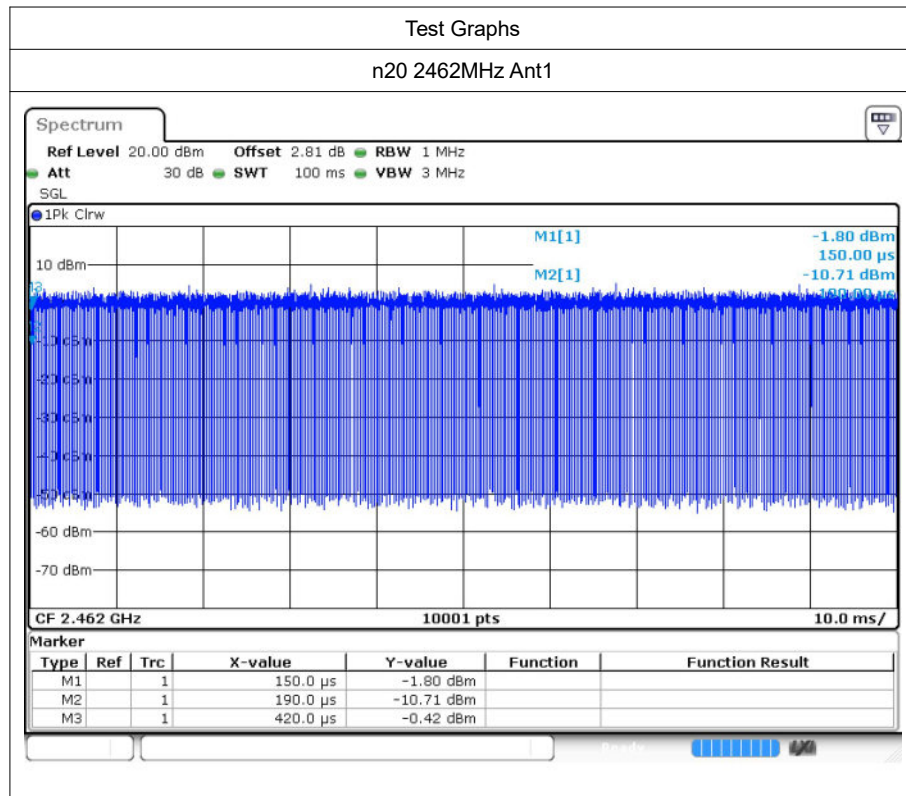
1.2 Test Graphs













2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant1	15.47	30	Pass
b	2437	Ant1	15.42	30	Pass
b	2462	Ant1	15.49	30	Pass
g	2412	Ant1	15.24	30	Pass
g	2437	Ant1	15.21	30	Pass
g	2462	Ant1	15.16	30	Pass
n20	2412	Ant1	14.90	30	Pass
n20	2437	Ant1	14.79	30	Pass
n20	2462	Ant1	14.85	30	Pass

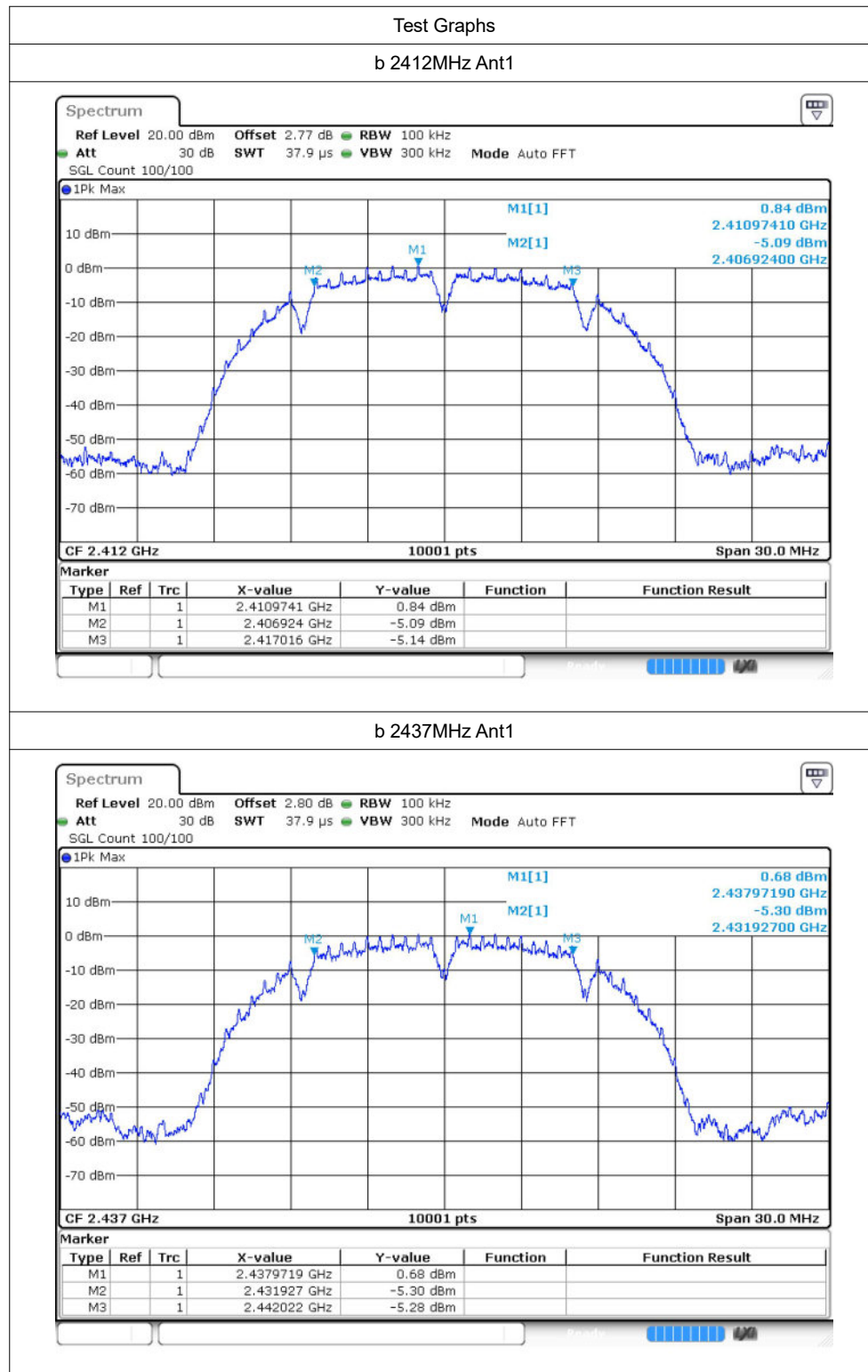


3 -6dB Bandwidth

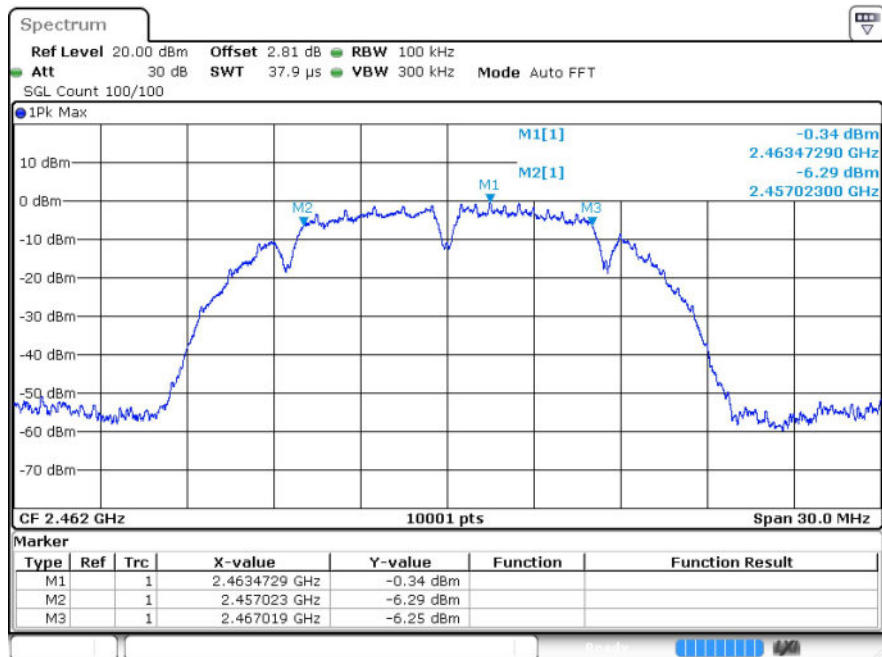
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	10.092	0.5	Pass
b	2437	Ant1	10.095	0.5	Pass
b	2462	Ant1	9.996	0.5	Pass
g	2412	Ant1	15.108	0.5	Pass
g	2437	Ant1	15.072	0.5	Pass
g	2462	Ant1	15.117	0.5	Pass
n20	2412	Ant1	15.117	0.5	Pass
n20	2437	Ant1	15.099	0.5	Pass
n20	2462	Ant1	15.12	0.5	Pass

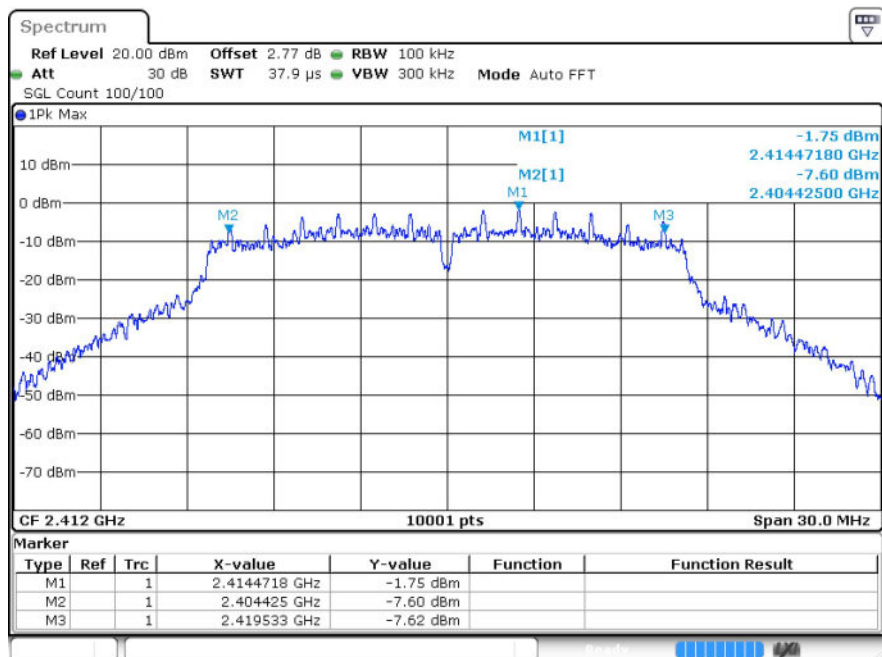
3.2 Test Graphs



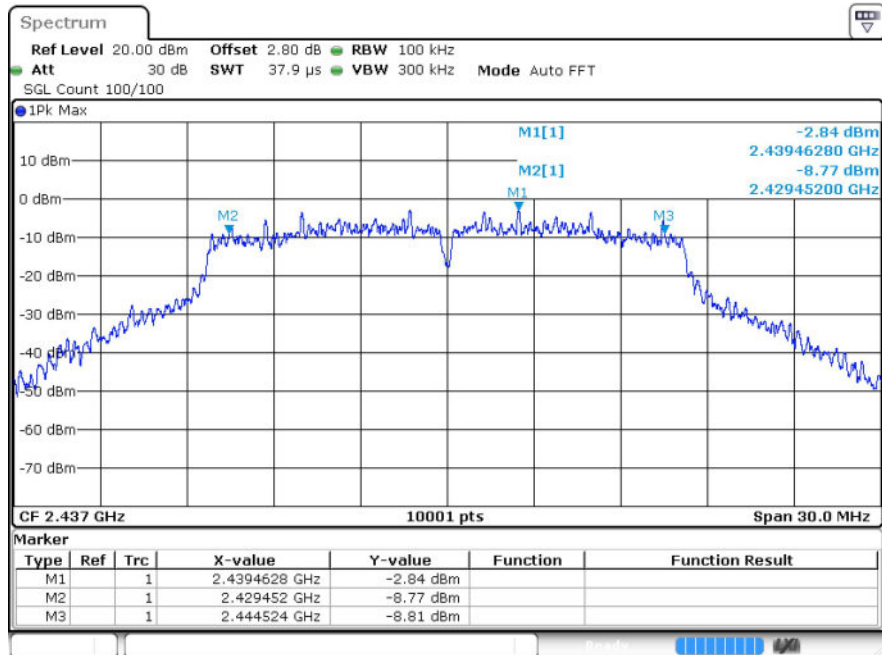
b 2462MHz Ant1



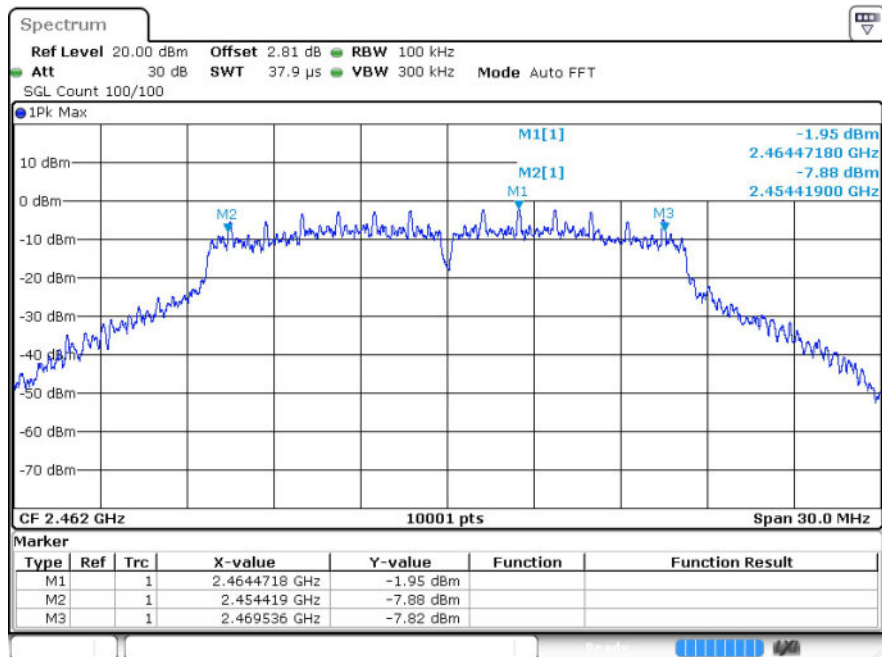
g 2412MHz Ant1



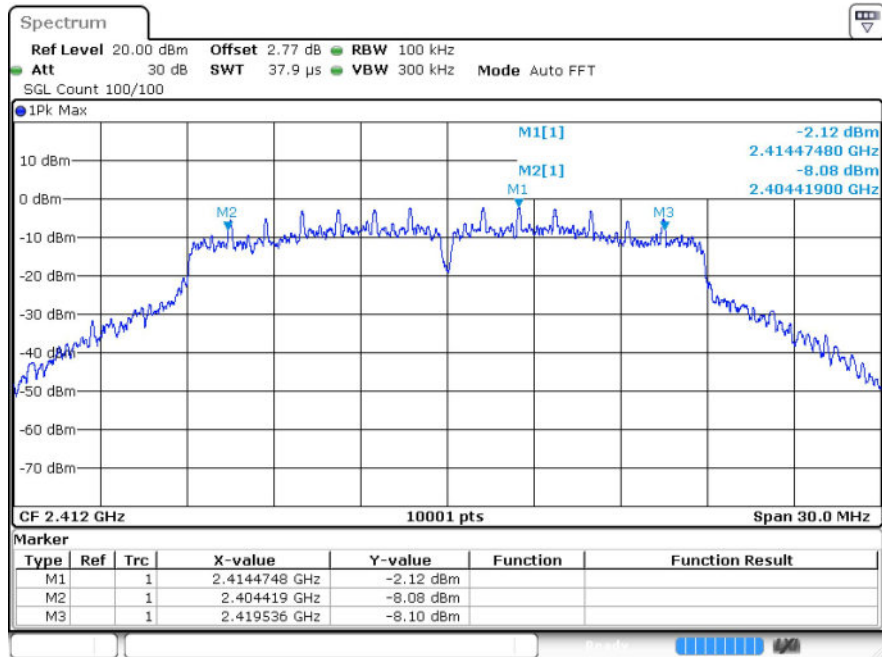
g 2437MHz Ant1



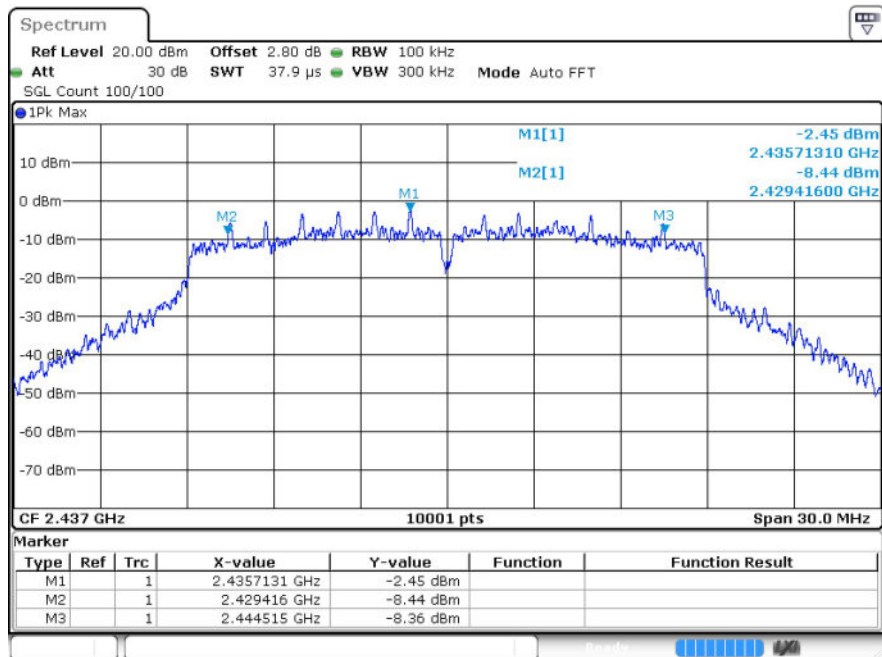
g 2462MHz Ant1

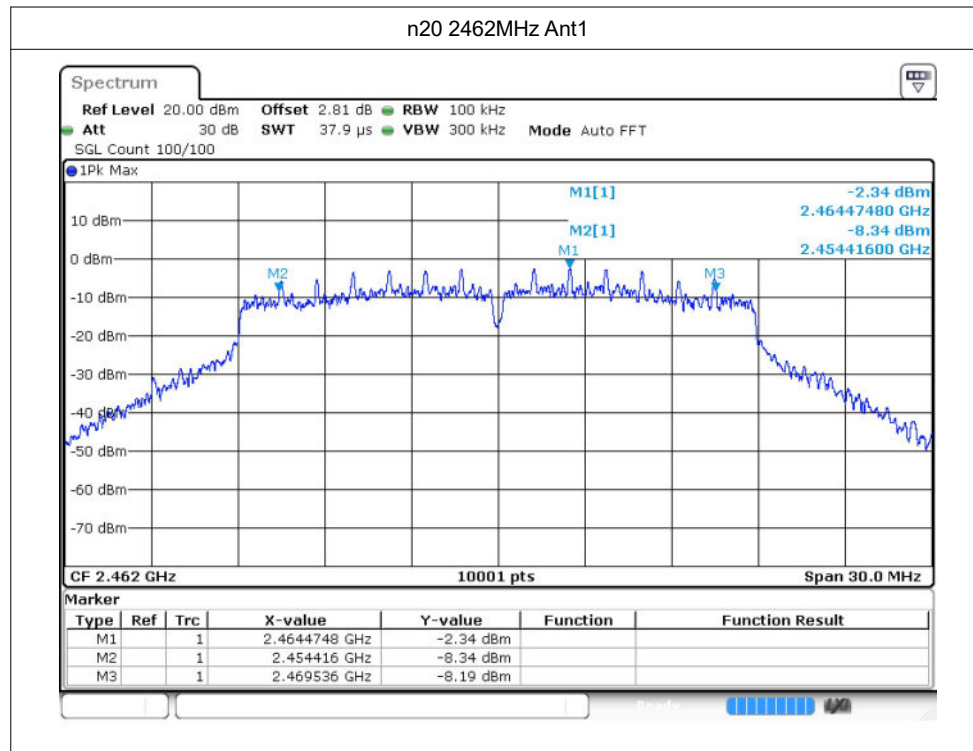


n20 2412MHz Ant1



n20 2437MHz Ant1



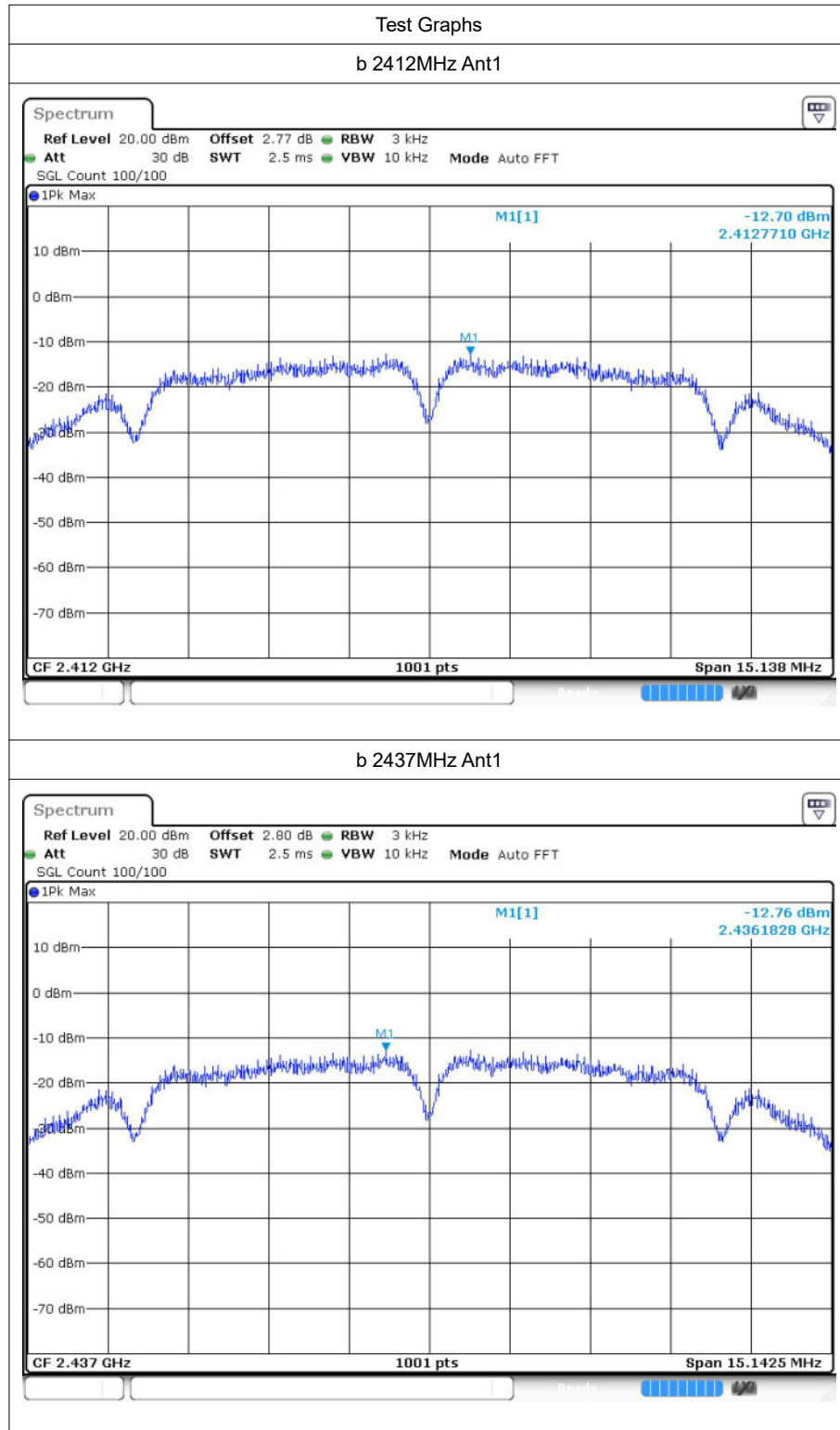


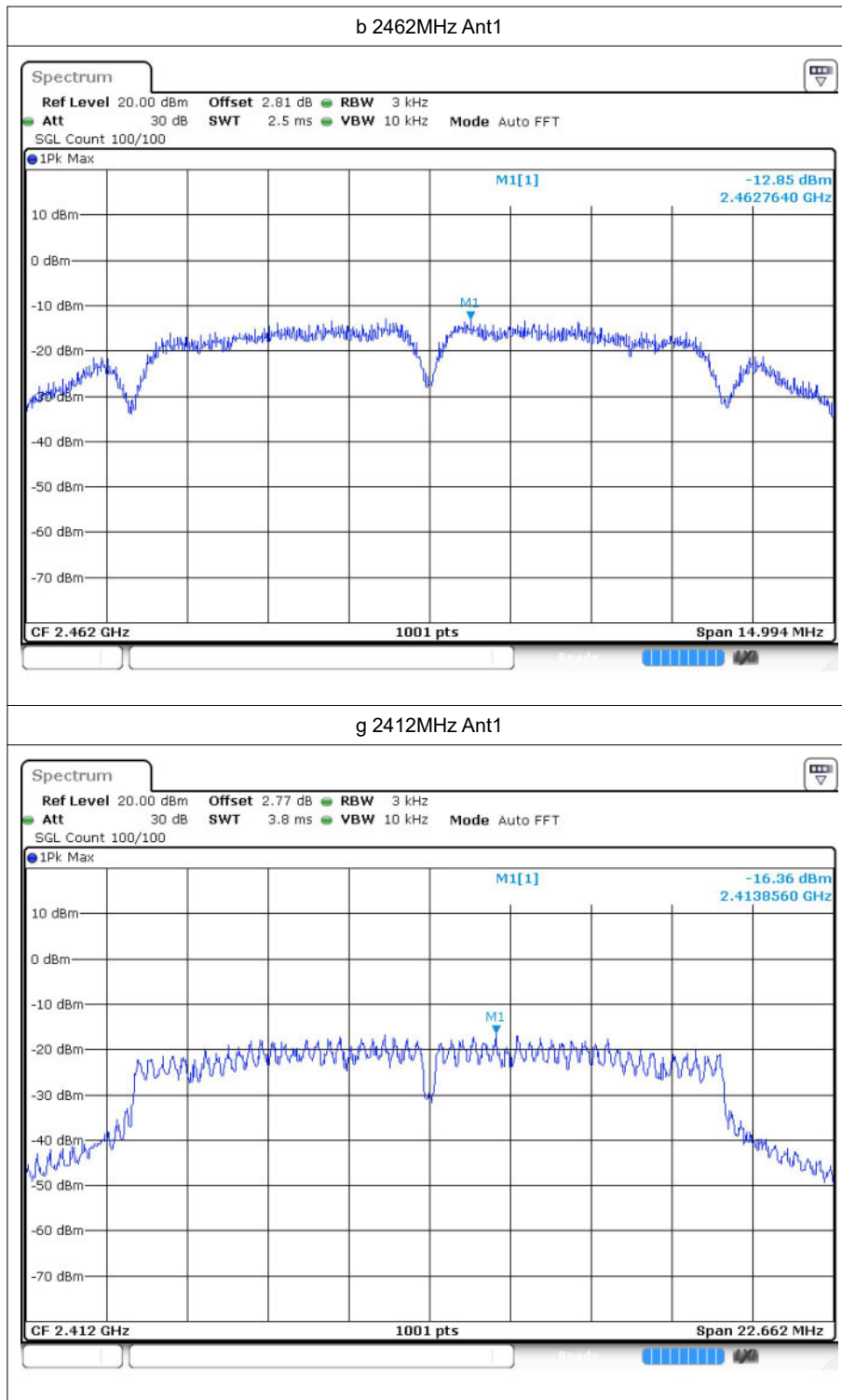
4 Maximum Power Spectral Density Level

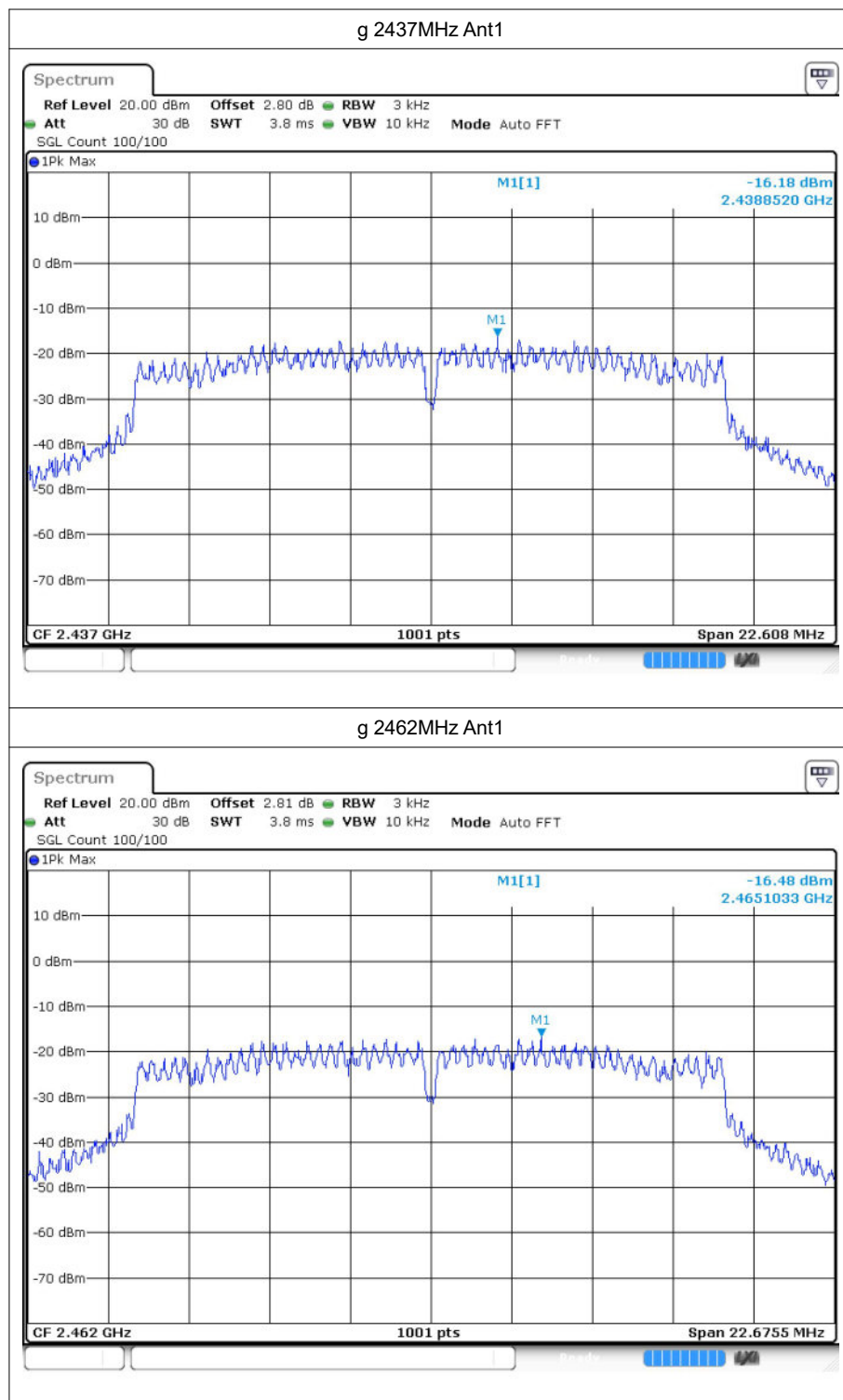
4.1 Test Result

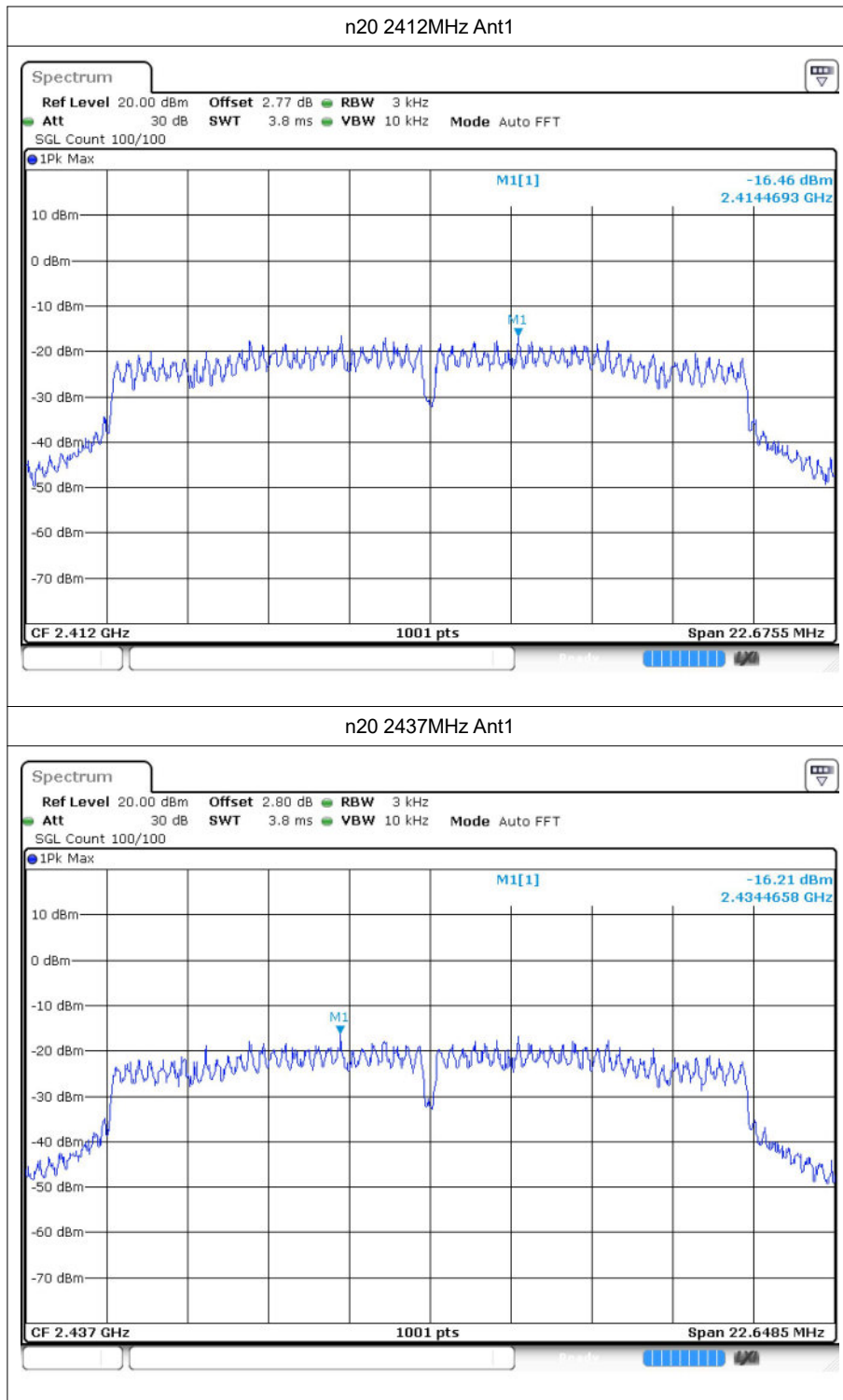
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
b	2412	Ant1	-12.7	≤ 8	Pass
b	2437	Ant1	-12.76	≤ 8	Pass
b	2462	Ant1	-12.85	≤ 8	Pass
g	2412	Ant1	-16.36	≤ 8	Pass
g	2437	Ant1	-16.18	≤ 8	Pass
g	2462	Ant1	-16.48	≤ 8	Pass
n20	2412	Ant1	-16.46	≤ 8	Pass
n20	2437	Ant1	-16.21	≤ 8	Pass
n20	2462	Ant1	-16.52	≤ 8	Pass

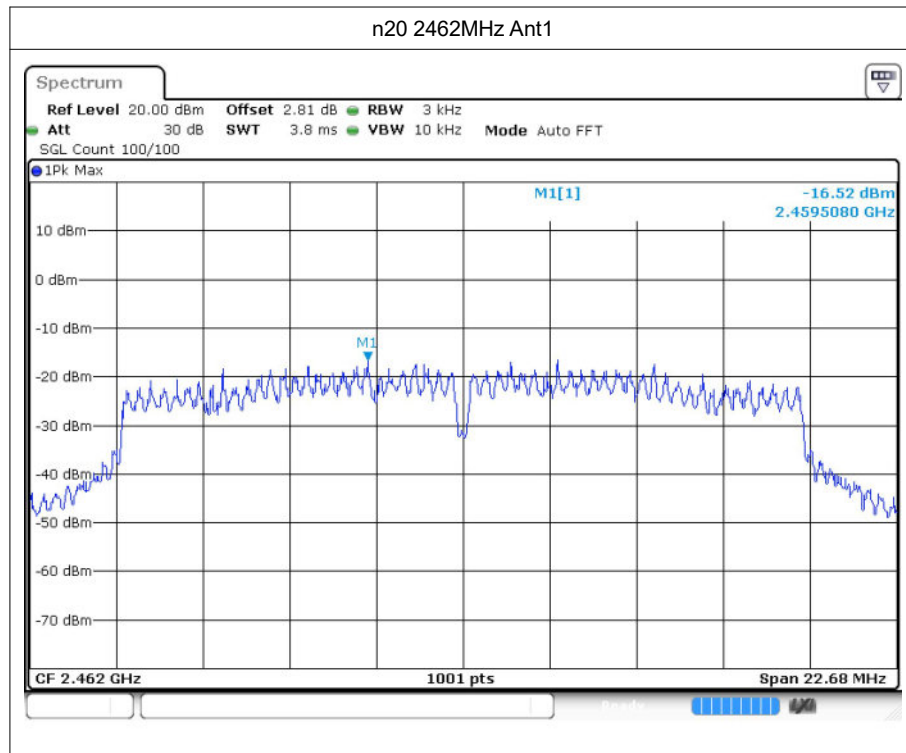
4.2 Test Graphs











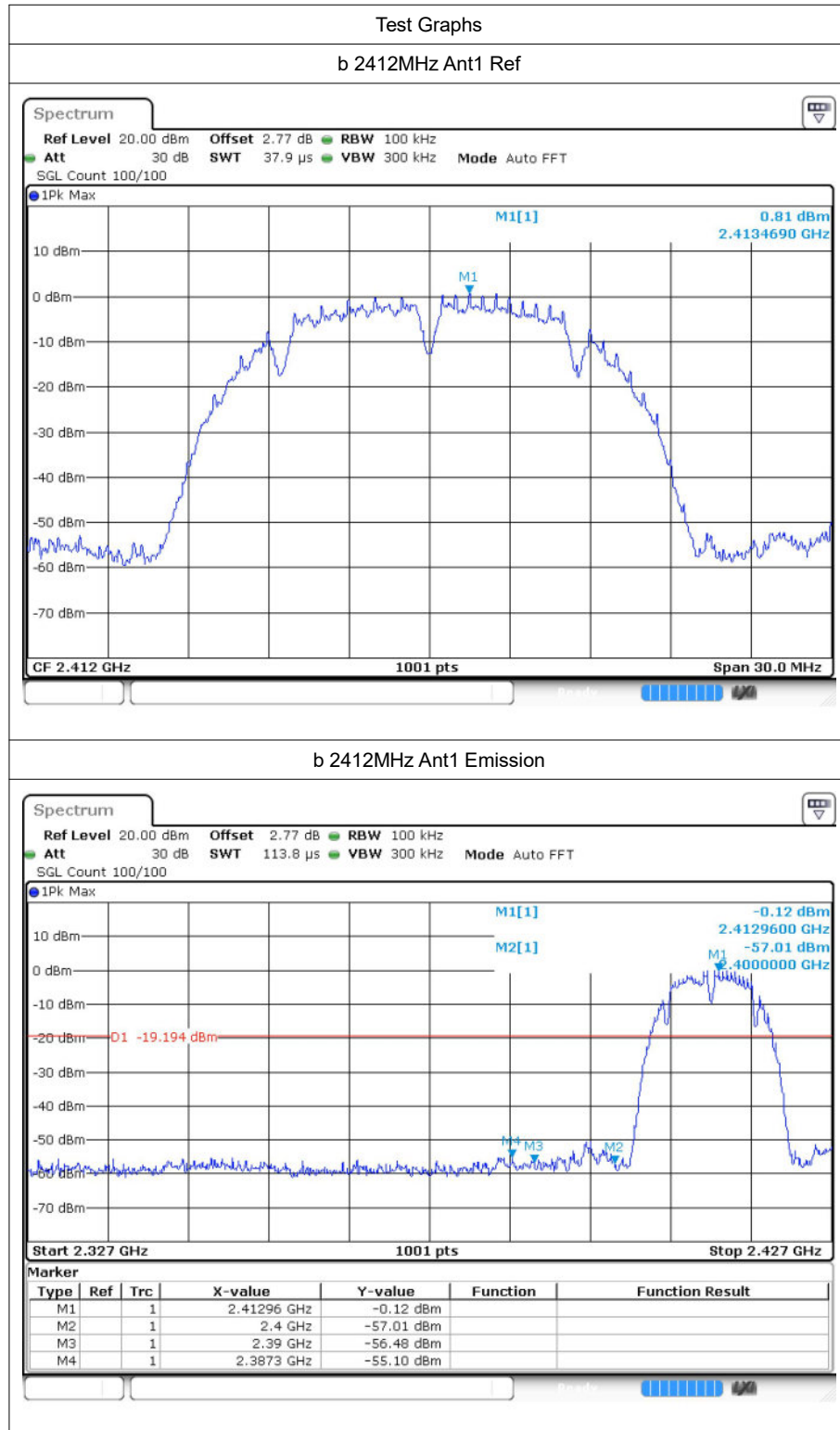


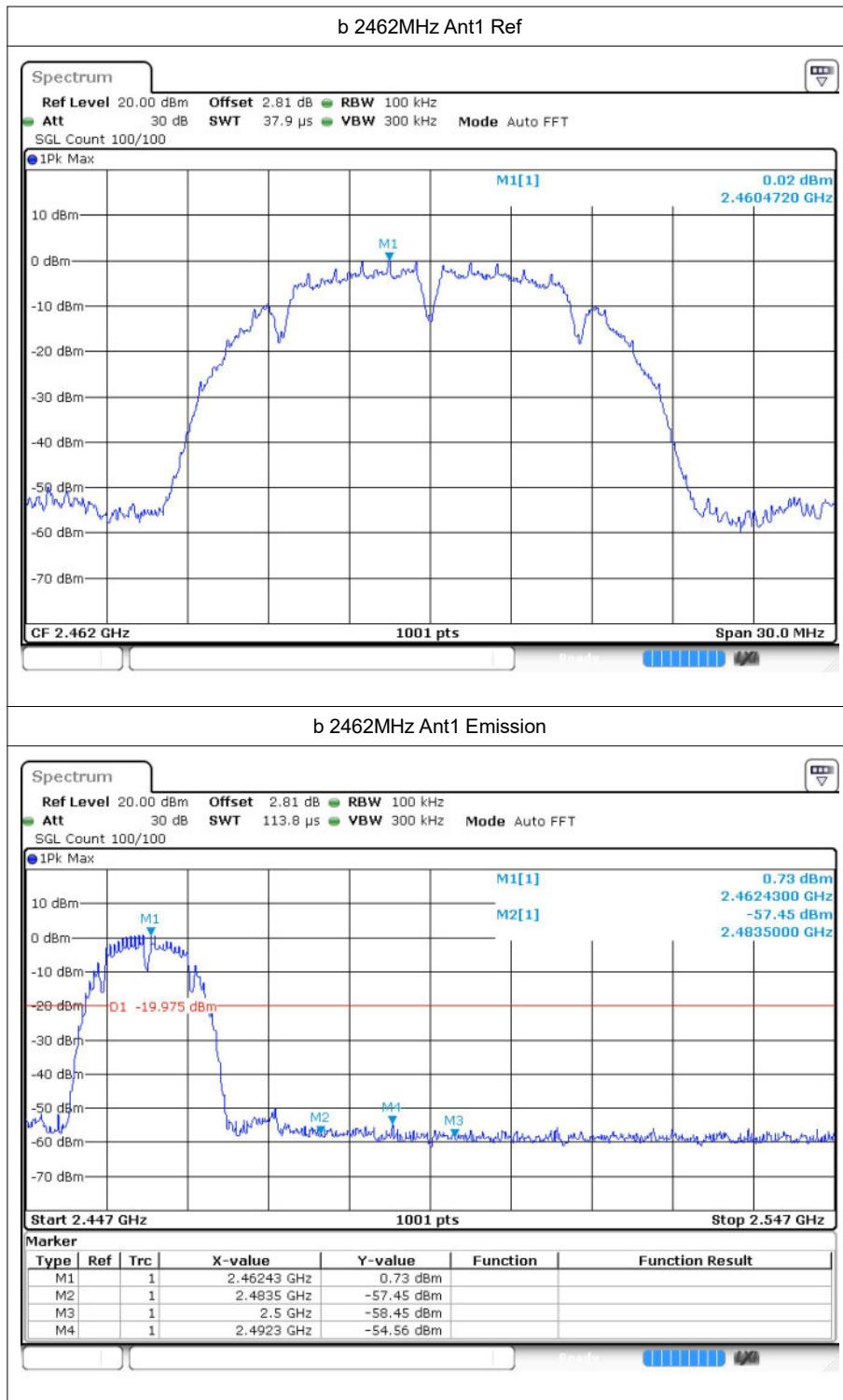
5 Band Edge

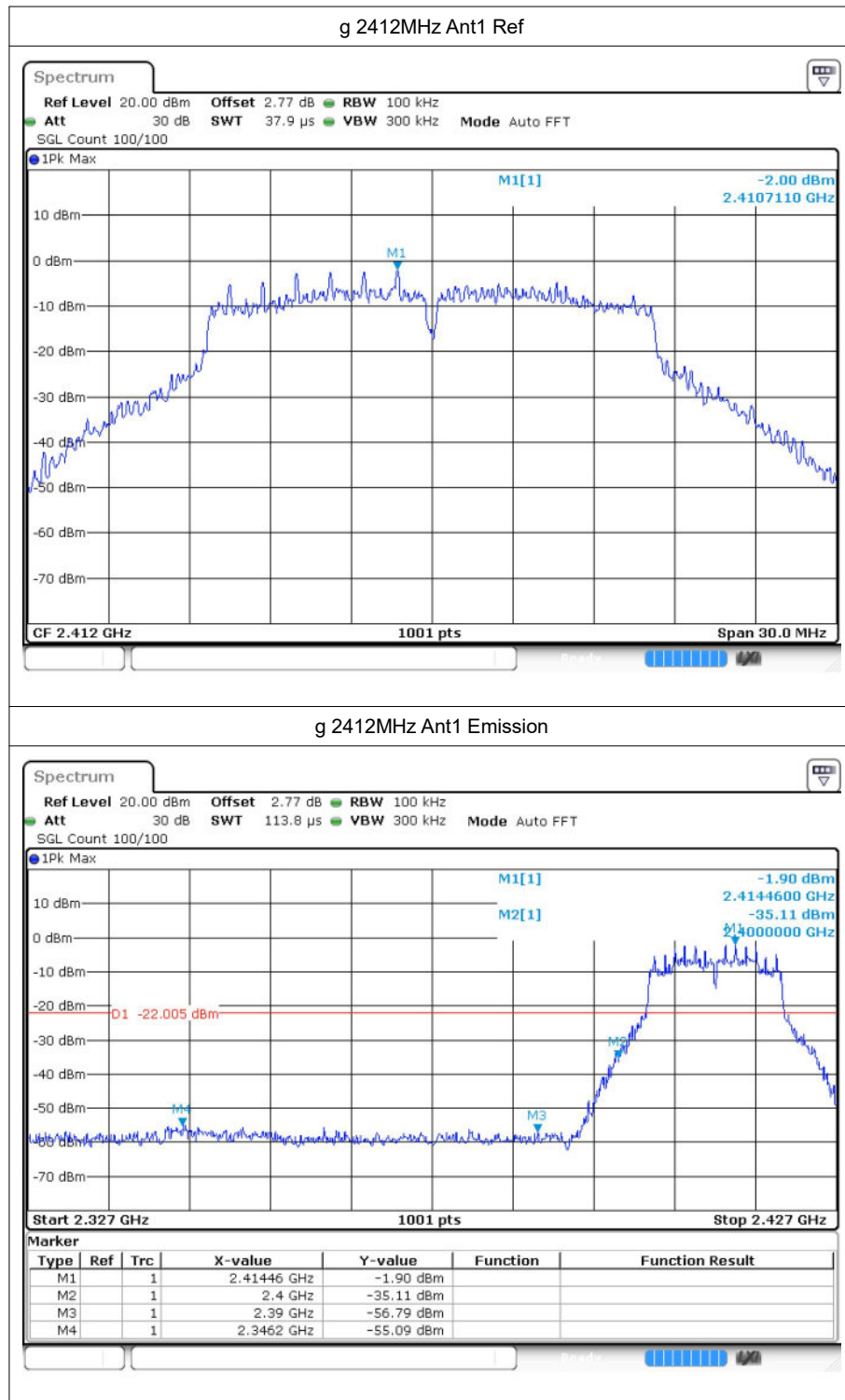
5.1 Test Result

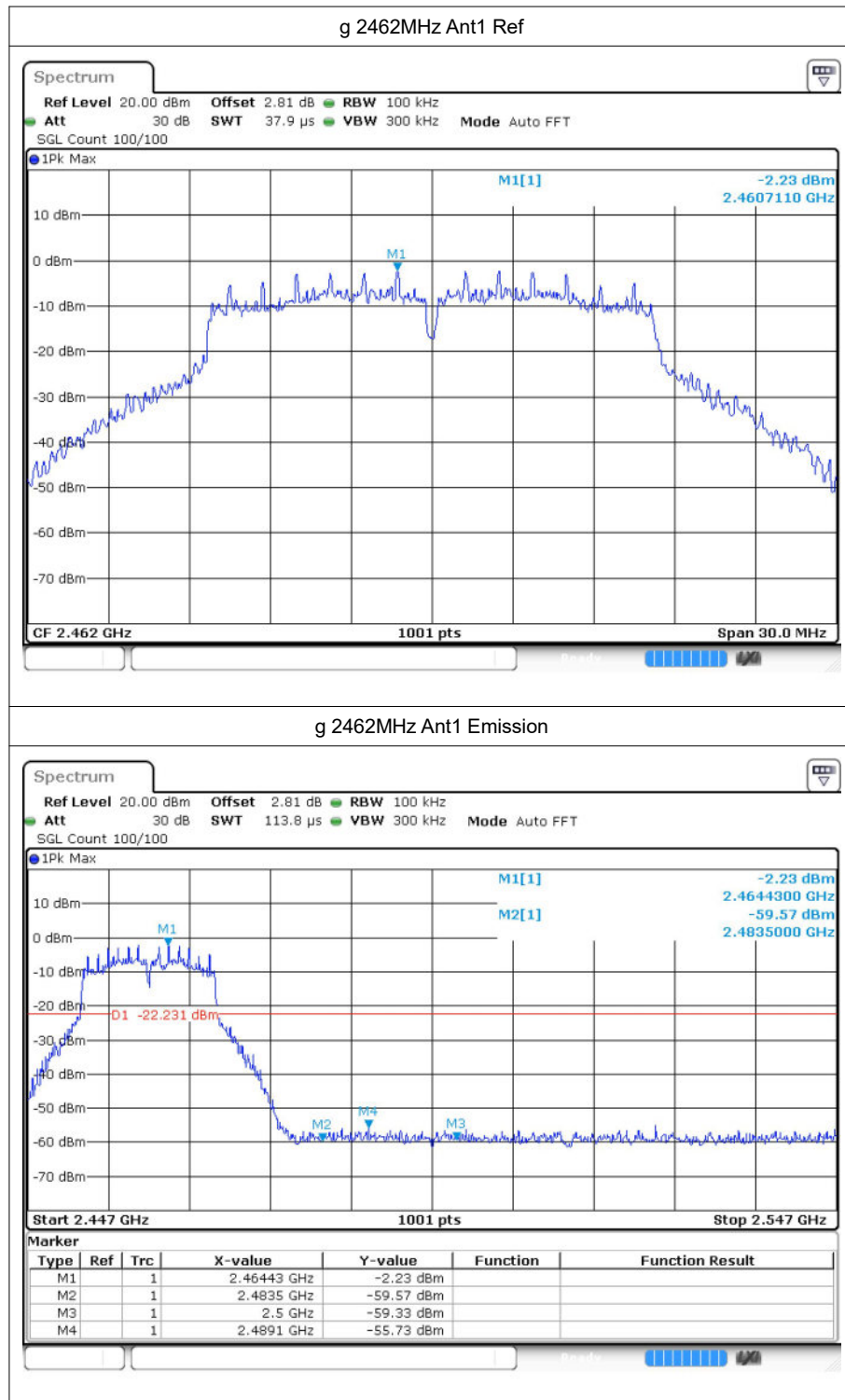
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-55.91	-20	Pass
b	2462	Ant1	-54.57	-20	Pass
g	2412	Ant1	-53.08	-20	Pass
g	2462	Ant1	-53.49	-20	Pass
n20	2412	Ant1	-51.96	-20	Pass
n20	2462	Ant1	-54.3	-20	Pass

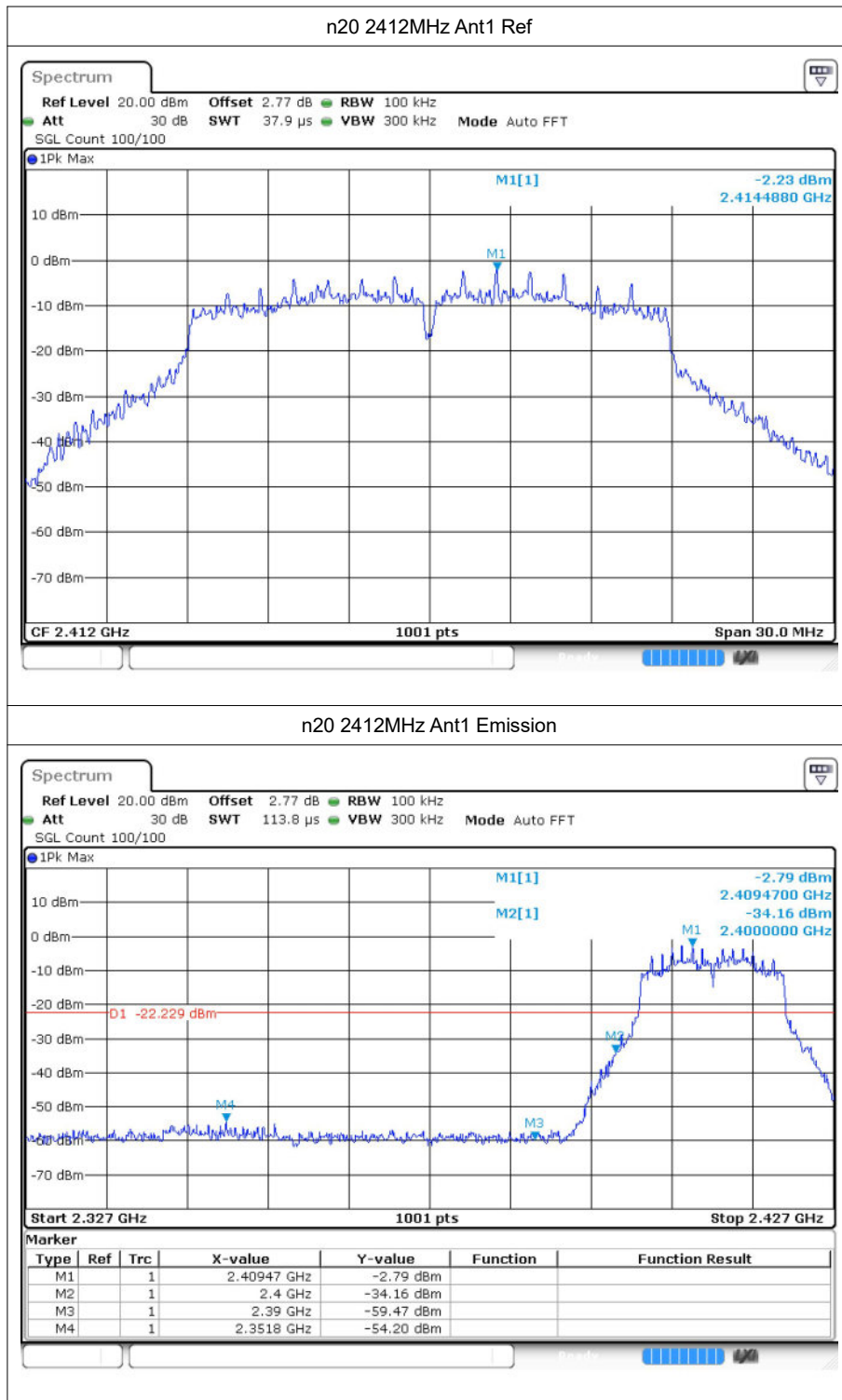
5.2 Test Graphs

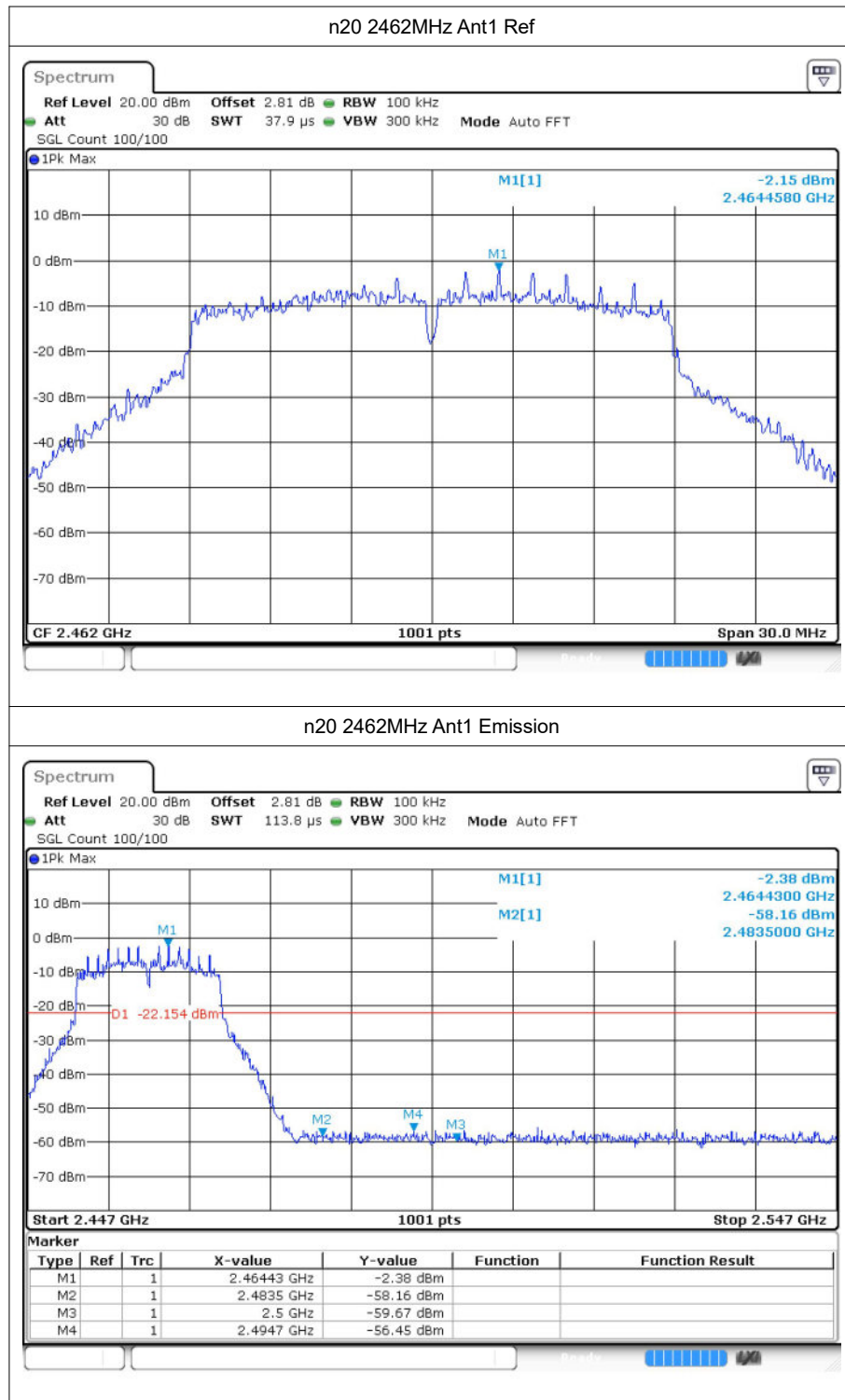












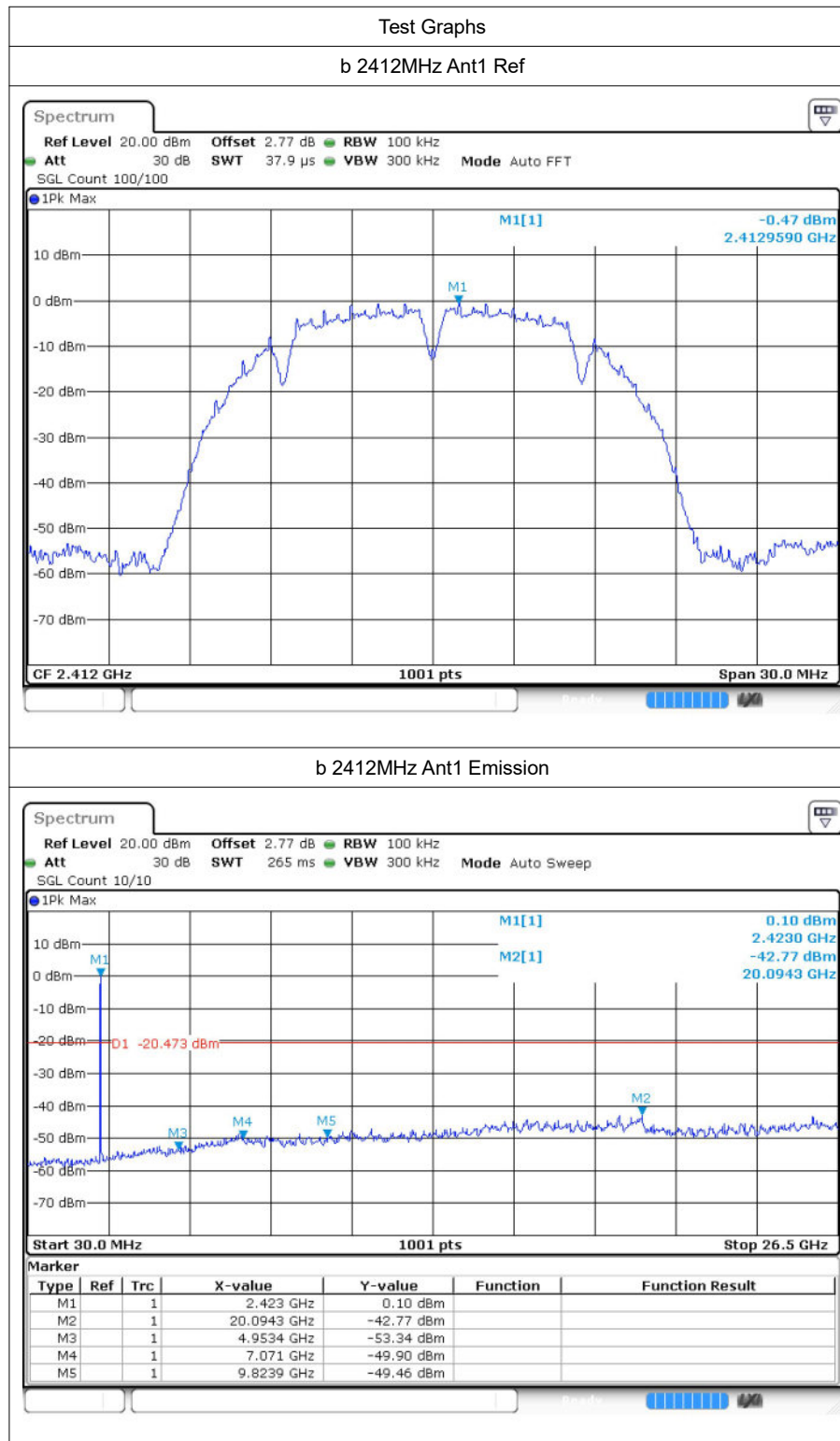


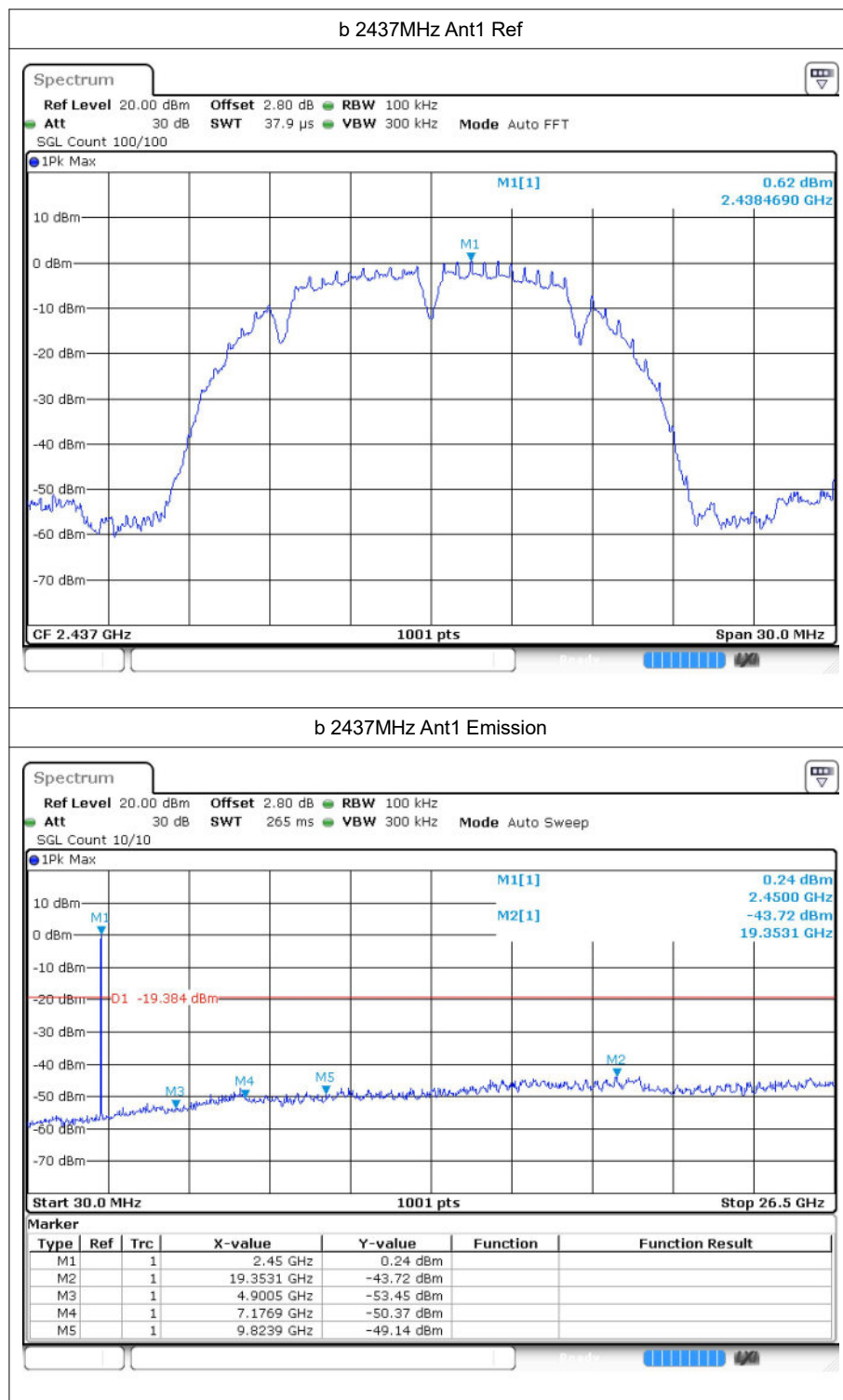
6 Conducted RF Spurious Emission

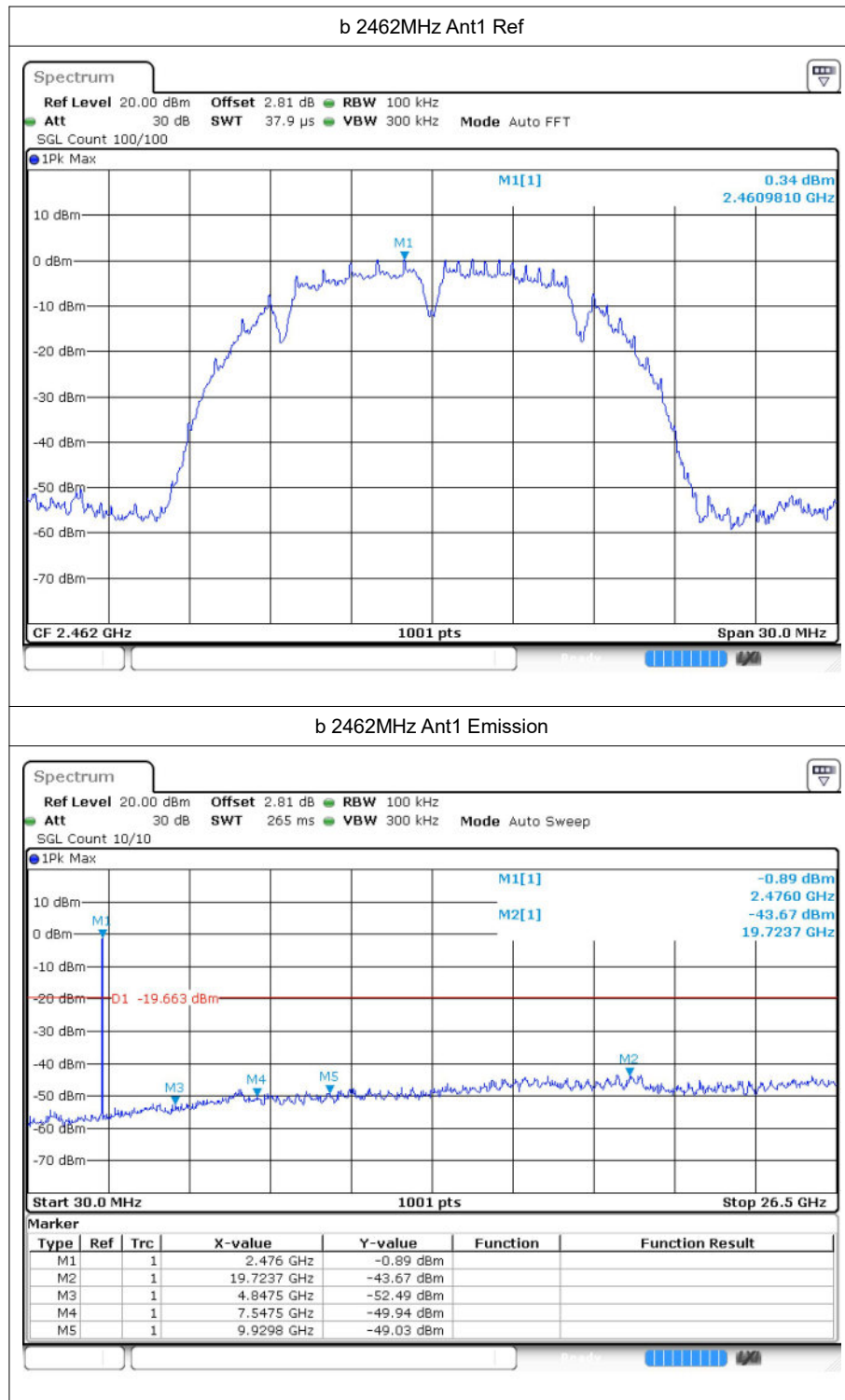
6.1 Test Result

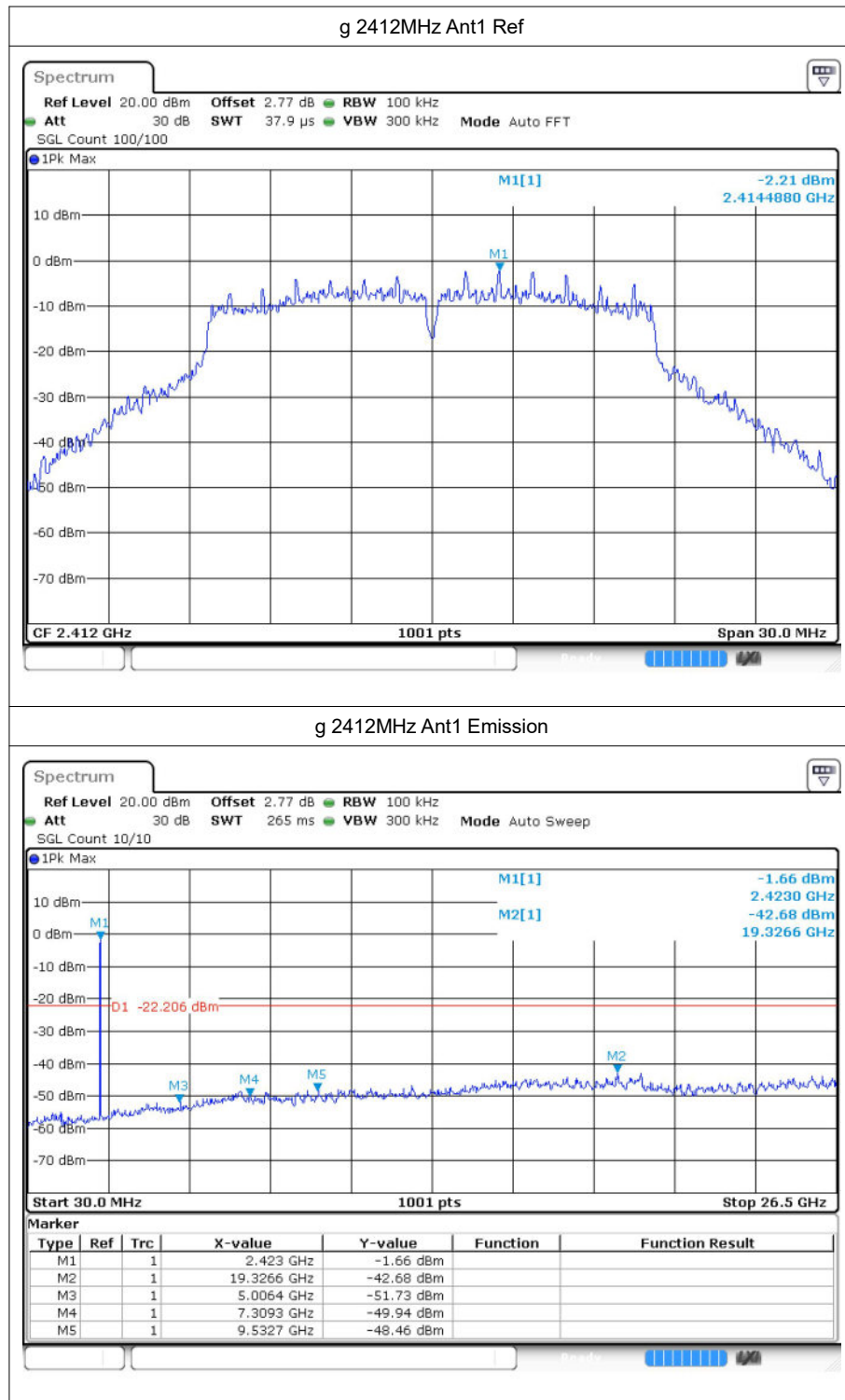
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-42.3	-20	Pass
b	2437	Ant1	-44.33	-20	Pass
b	2462	Ant1	-44	-20	Pass
g	2412	Ant1	-40.47	-20	Pass
g	2437	Ant1	-40.1	-20	Pass
g	2462	Ant1	-40.14	-20	Pass
n20	2412	Ant1	-40.42	-20	Pass
n20	2437	Ant1	-40.64	-20	Pass
n20	2462	Ant1	-40.78	-20	Pass

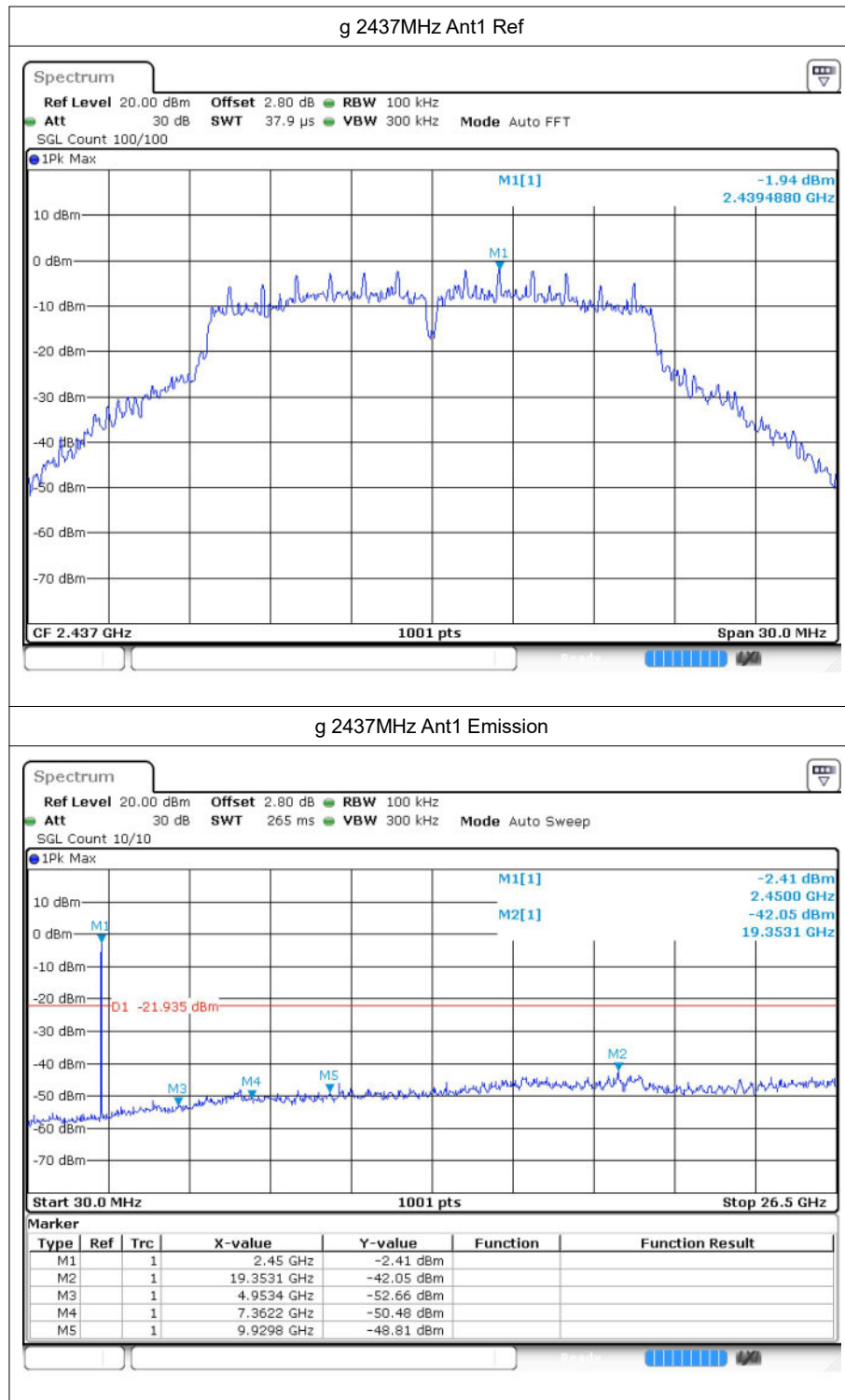
6.2 Test Graphs

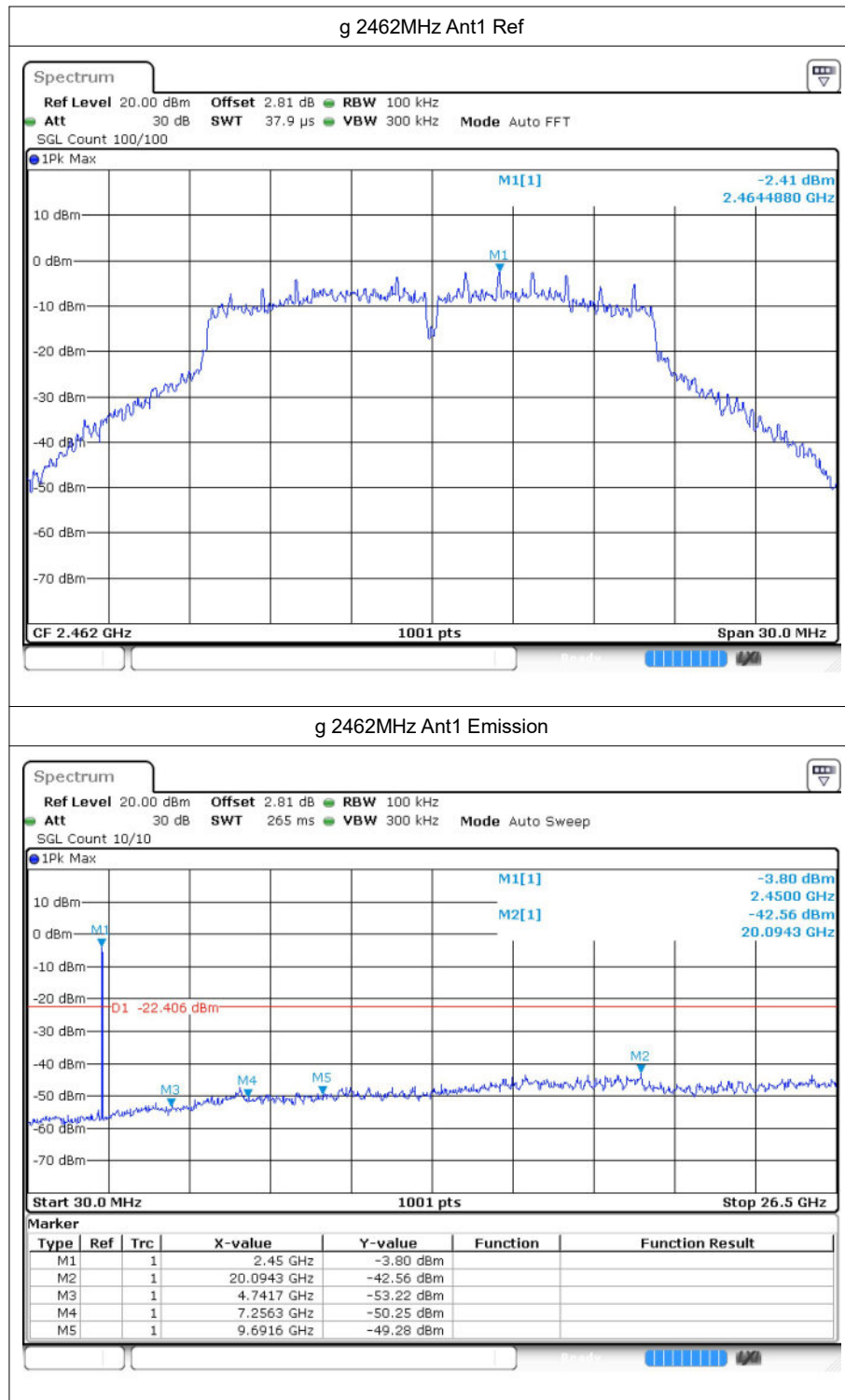


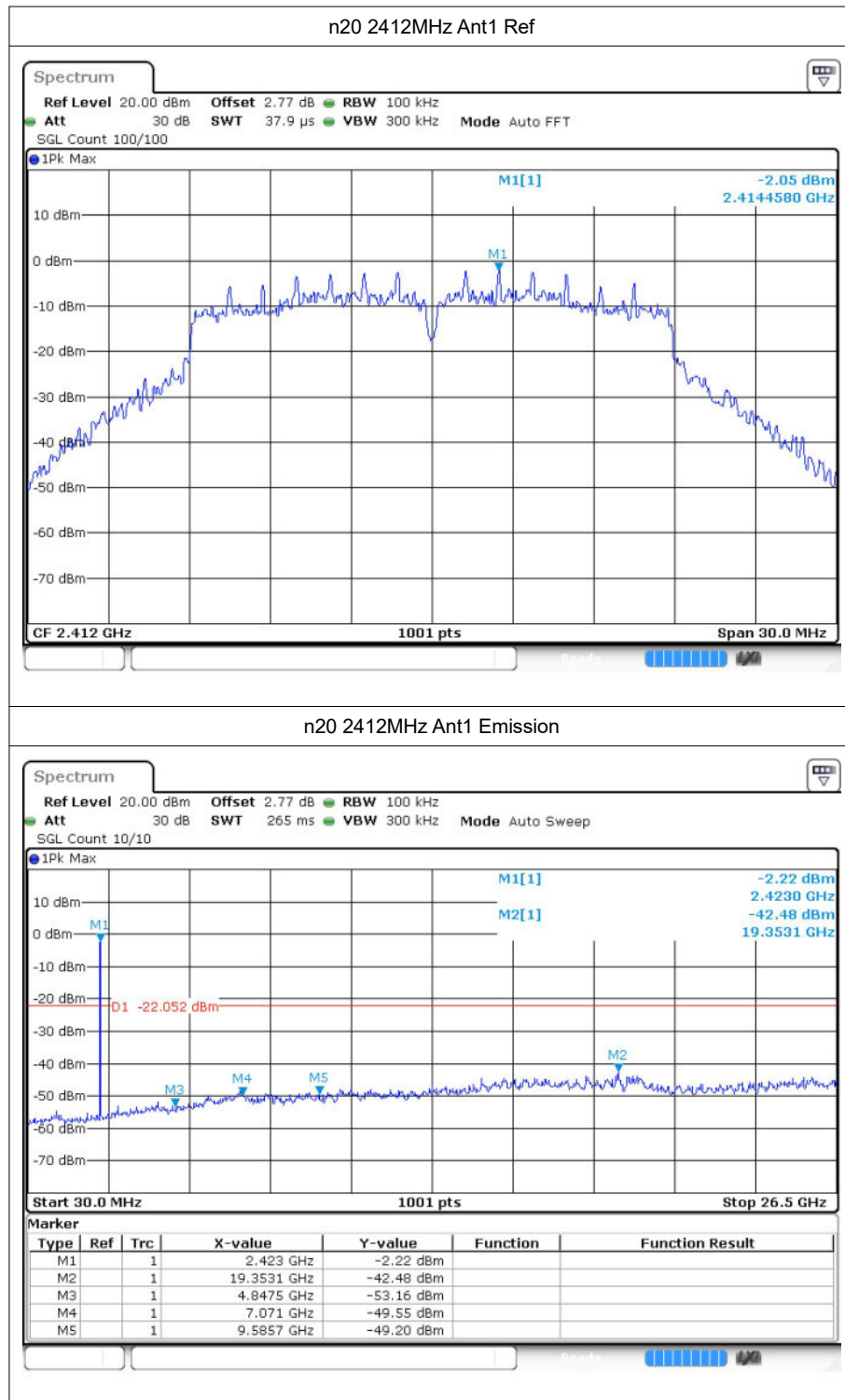


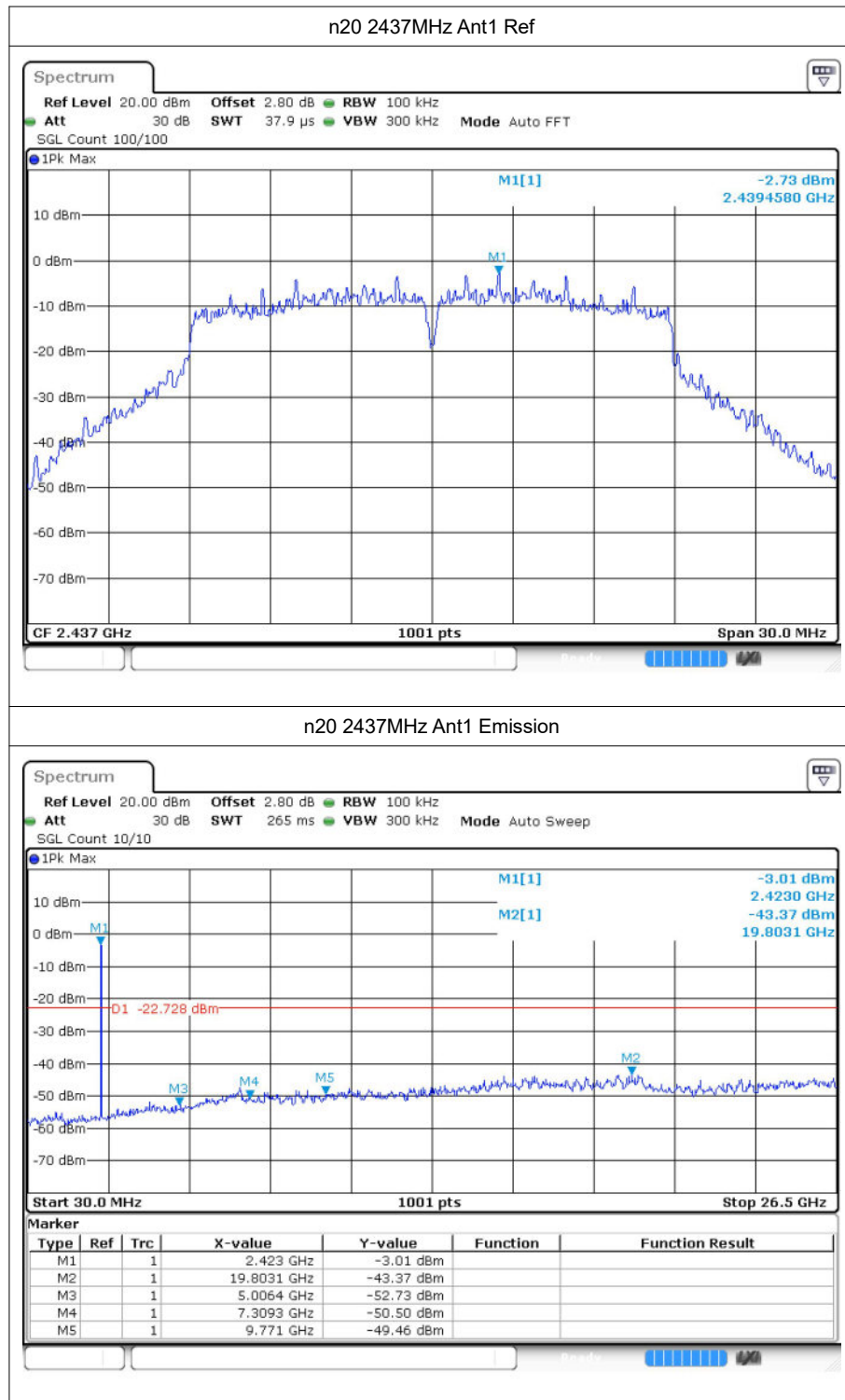


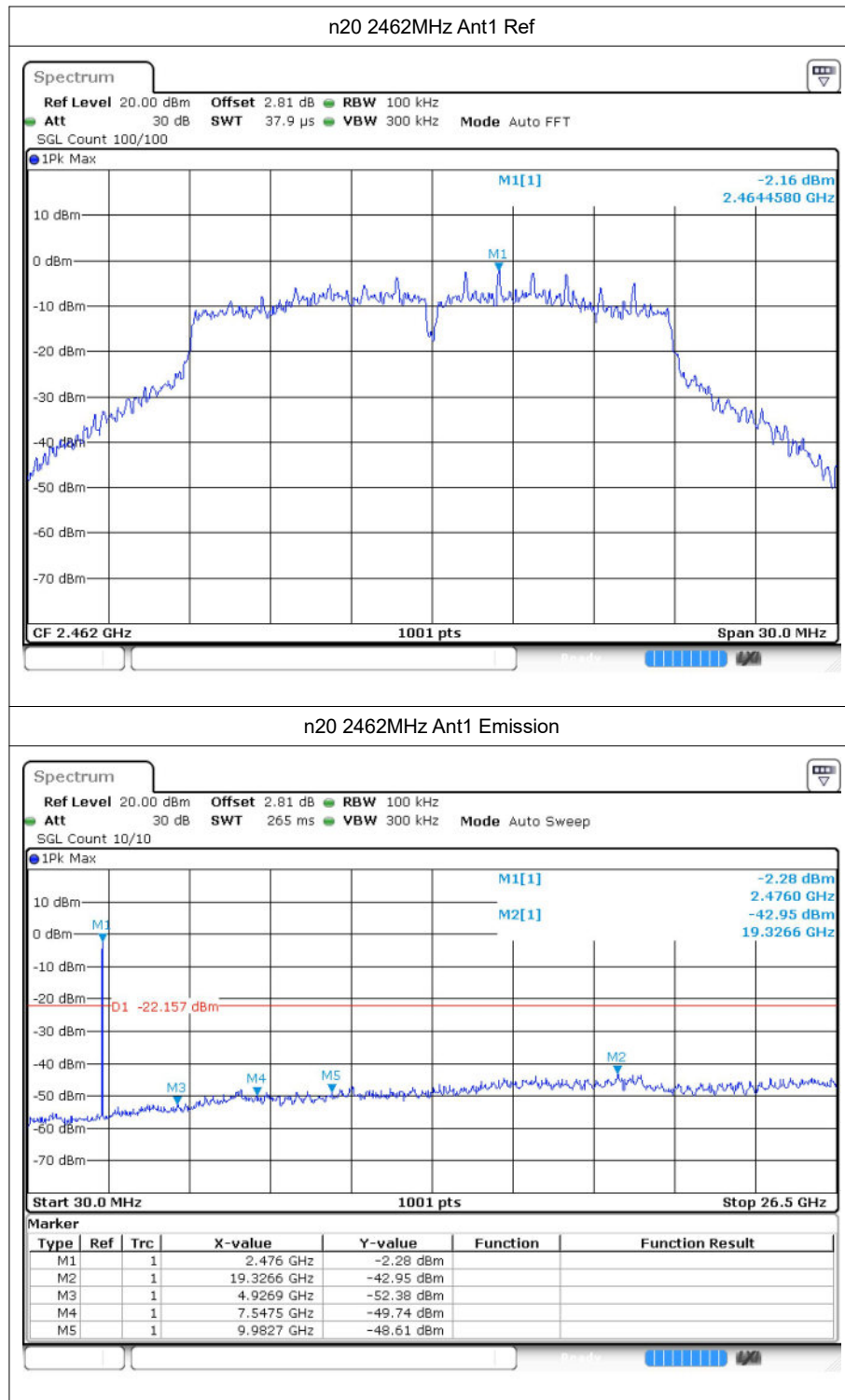














7 Restrict Band

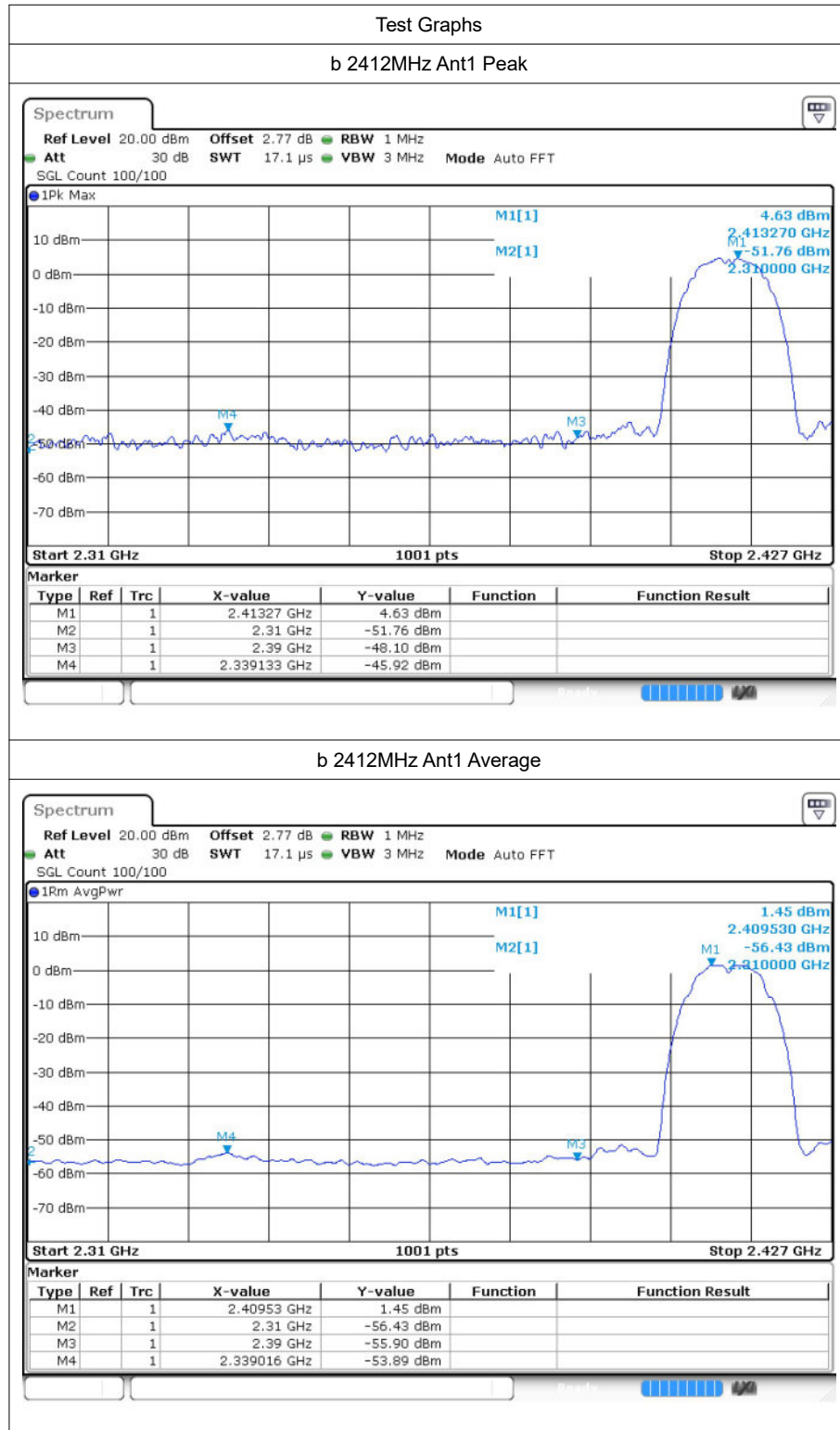
7.1 Test Result

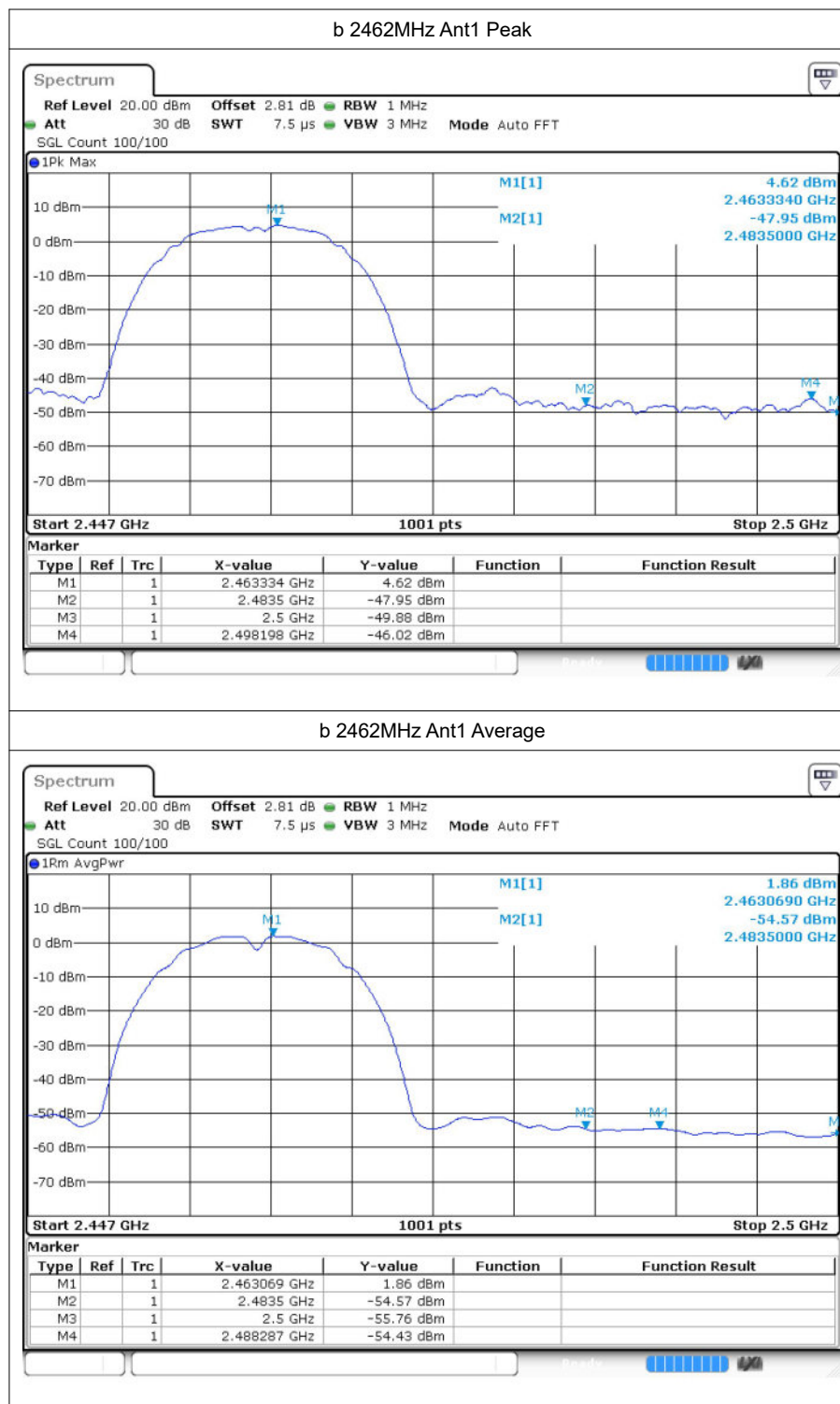
Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
b	2412	Ant1	2310	-51.76	2.54	-	46.04	Peak	74	Pass
b	2412	Ant1	2310	-56.43	2.54	0	41.37	Average	54	Pass
b	2412	Ant1	2339.133	-45.91	2.54	-	51.89	Peak	74	Pass
b	2412	Ant1	2339.016	-53.89	2.54	0	43.91	Average	54	Pass
b	2412	Ant1	2390	-48.1	2.54	-	49.7	Peak	74	Pass
b	2412	Ant1	2390	-55.9	2.54	0	41.9	Average	54	Pass
b	2462	Ant1	2483.5	-47.95	2.54	-	49.85	Peak	74	Pass
b	2462	Ant1	2483.5	-54.57	2.54	0	43.23	Average	54	Pass
b	2462	Ant1	2498.198	-46.02	2.54	-	51.78	Peak	74	Pass
b	2462	Ant1	2488.287	-54.42	2.54	0	43.38	Average	54	Pass
b	2462	Ant1	2500	-49.88	2.54	-	47.92	Peak	74	Pass
b	2462	Ant1	2500	-55.76	2.54	0	42.04	Average	54	Pass
g	2412	Ant1	2310	-48.4	2.54	-	49.4	Peak	74	Pass
g	2412	Ant1	2310	-57.23	2.54	0.61	41.18	Average	54	Pass
g	2412	Ant1	2337.027	-46.85	2.54	-	50.95	Peak	74	Pass
g	2412	Ant1	2336.793	-54.05	2.54	0.61	44.36	Average	54	Pass
g	2412	Ant1	2390	-49.84	2.54	-	49.7	Peak	74	Pass
g	2412	Ant1	2390	-56.54	2.54	0.61	41.87	Average	54	Pass
g	2462	Ant1	2483.5	-49.7	2.54	-	48.1	Peak	74	Pass
g	2462	Ant1	2483.5	-56.89	2.54	0.61	41.52	Average	54	Pass
g	2462	Ant1	2498.198	-46.58	2.54	-	51.22	Peak	74	Pass
g	2462	Ant1	2492.474	-55.56	2.54	0.61	42.85	Average	54	Pass
g	2462	Ant1	2500	-49.14	2.54	-	47.92	Peak	74	Pass
g	2462	Ant1	2500	-56.64	2.54	0.61	41.77	Average	54	Pass
n20	2412	Ant1	2310	-49.41	2.54	-	48.39	Peak	74	Pass
n20	2412	Ant1	2310	-56.35	2.54	0.57	42.02	Average	54	Pass
n20	2412	Ant1	2342.058	-45.88	2.54	-	51.92	Peak	74	Pass
n20	2412	Ant1	2337.027	-54.09	2.54	0.57	44.28	Average	54	Pass
n20	2412	Ant1	2390	-49.48	2.54	-	48.32	Peak	74	Pass
n20	2412	Ant1	2390	-56.04	2.54	0.57	42.33	Average	54	Pass
n20	2462	Ant1	2483.5	-50.29	2.54	-	47.51	Peak	74	Pass
n20	2462	Ant1	2483.5	-55.51	2.54	0.58	42.87	Average	54	Pass
n20	2462	Ant1	2490.089	-47.26	2.54	-	50.54	Peak	74	Pass
n20	2462	Ant1	2483.676	-55.45	2.54	0.58	42.93	Average	54	Pass

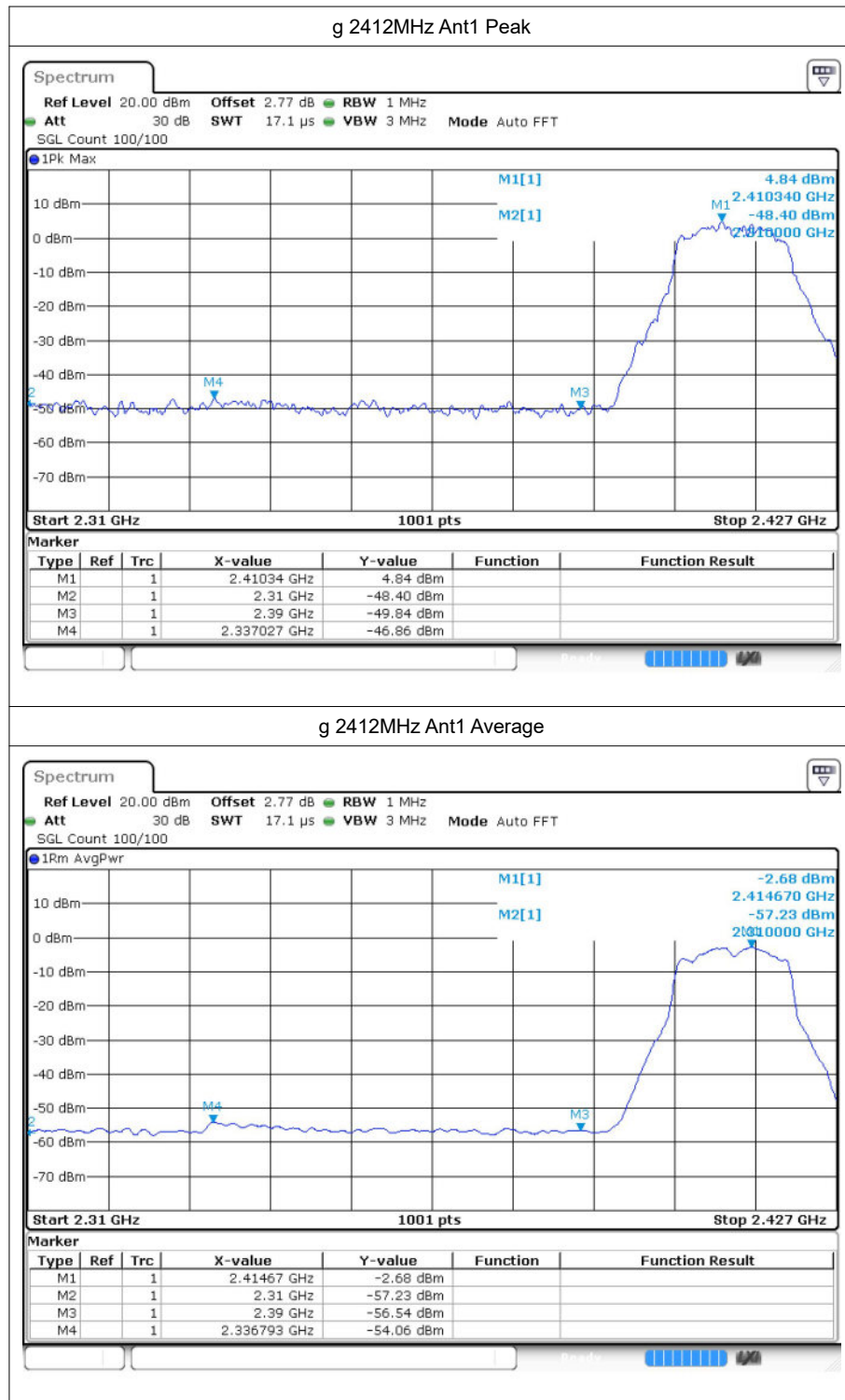


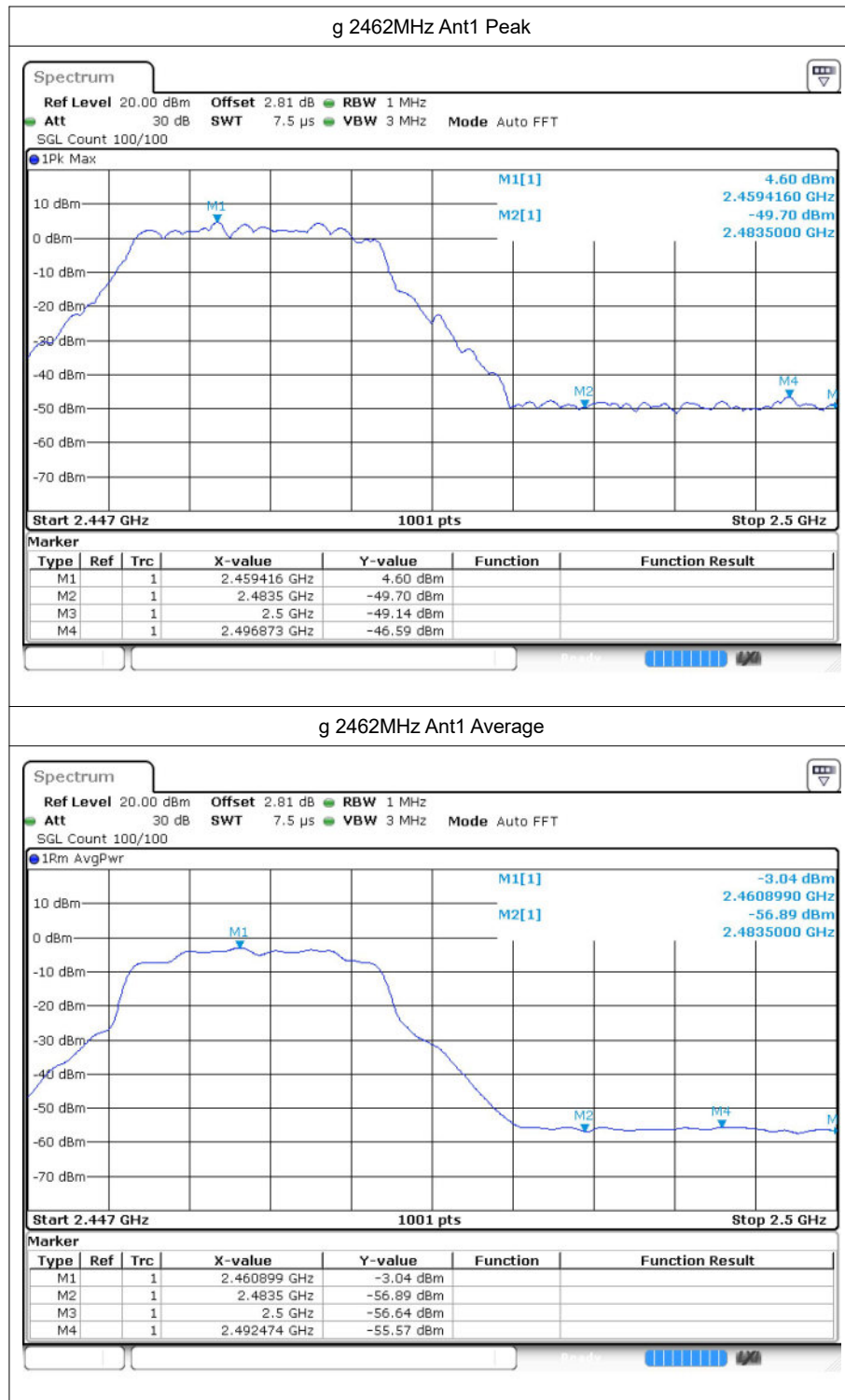
n20	2462	Ant1	2500	-49.48	2.54	-	48.32	Peak	74	Pass
n20	2462	Ant1	2500	-56.26	2.54	0.58	42.12	Average	54	Pass

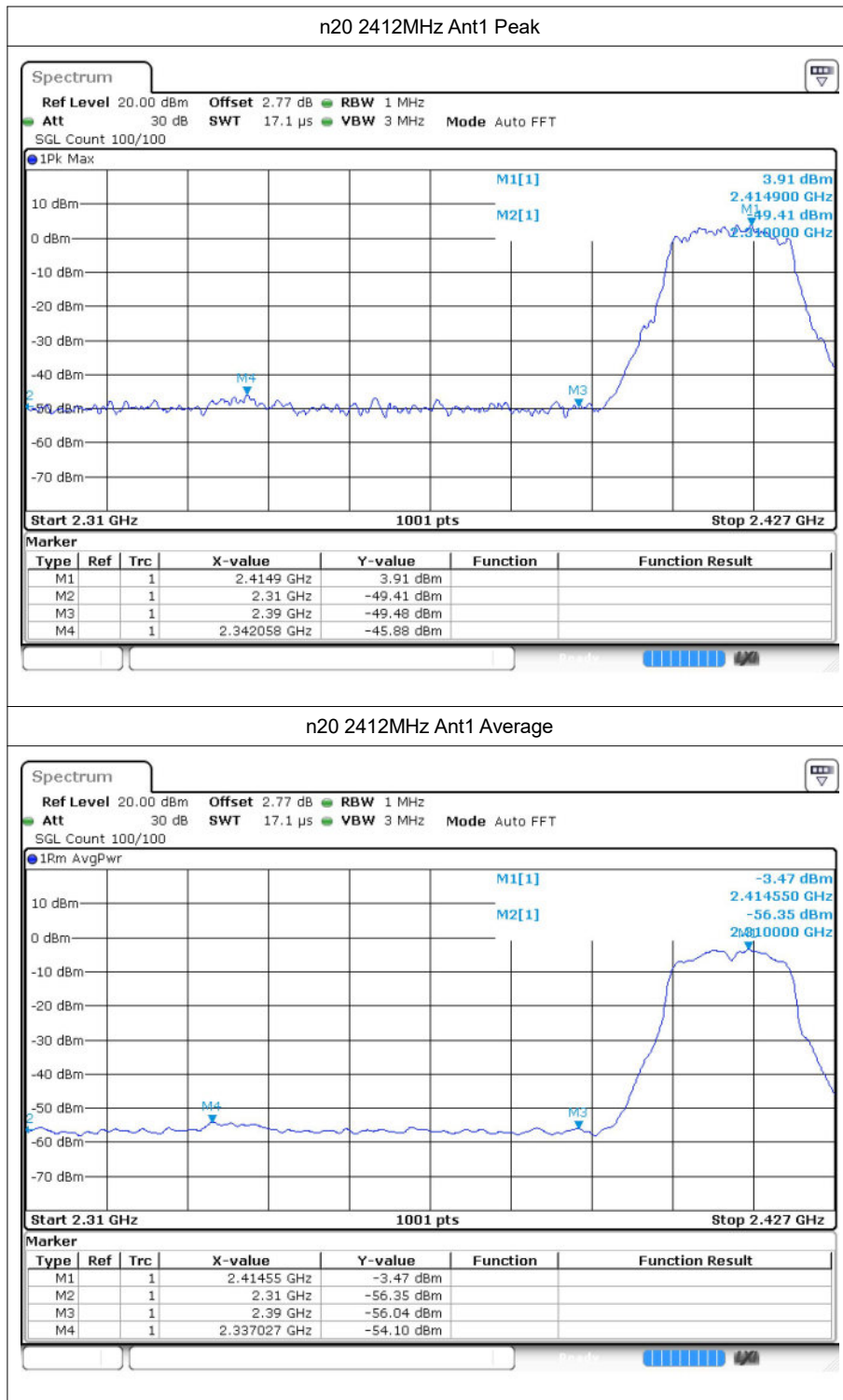
7.2 Test Graphs

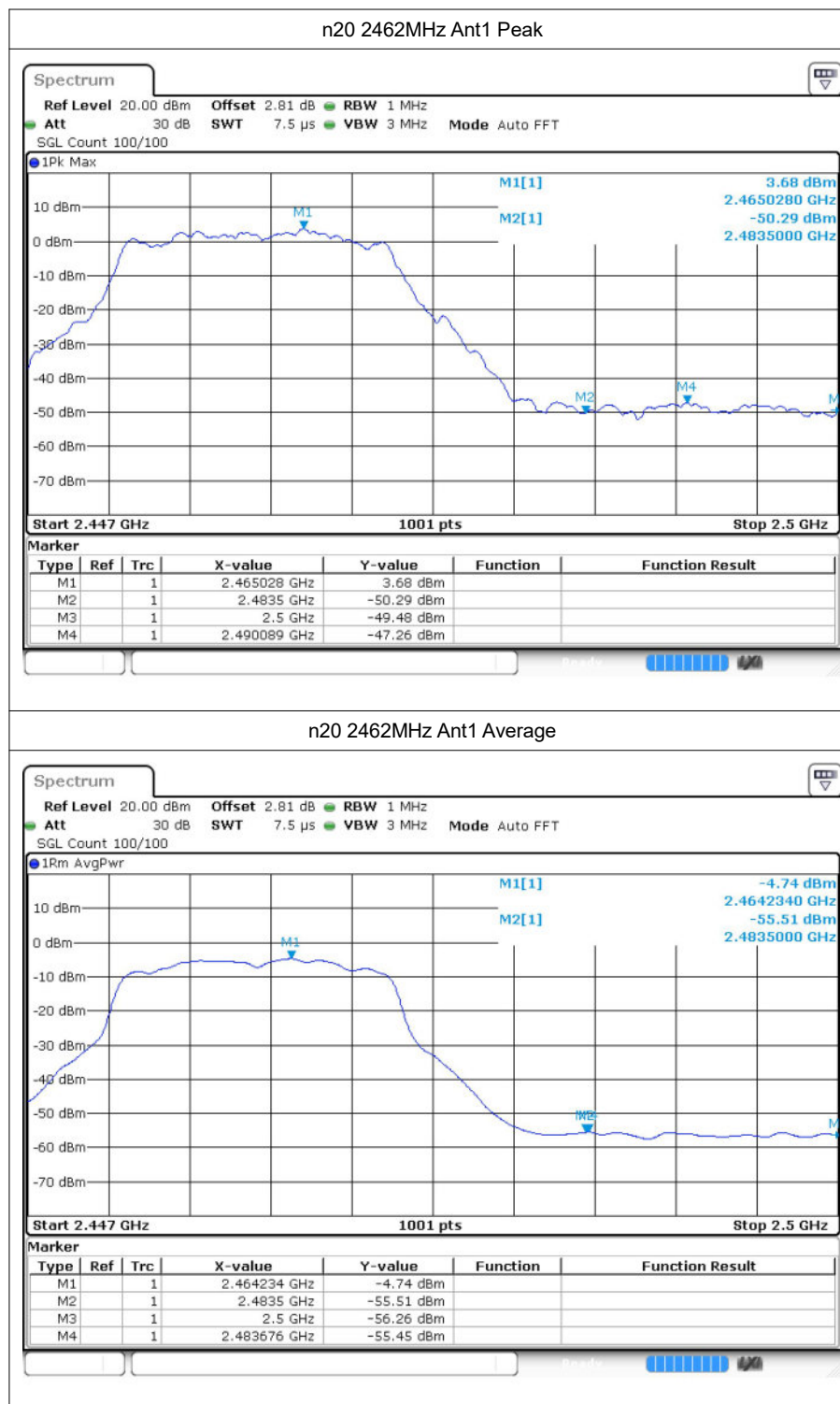












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