



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: WiFi Camera

Trade Mark: HUNTVISION

Test Model: C31W

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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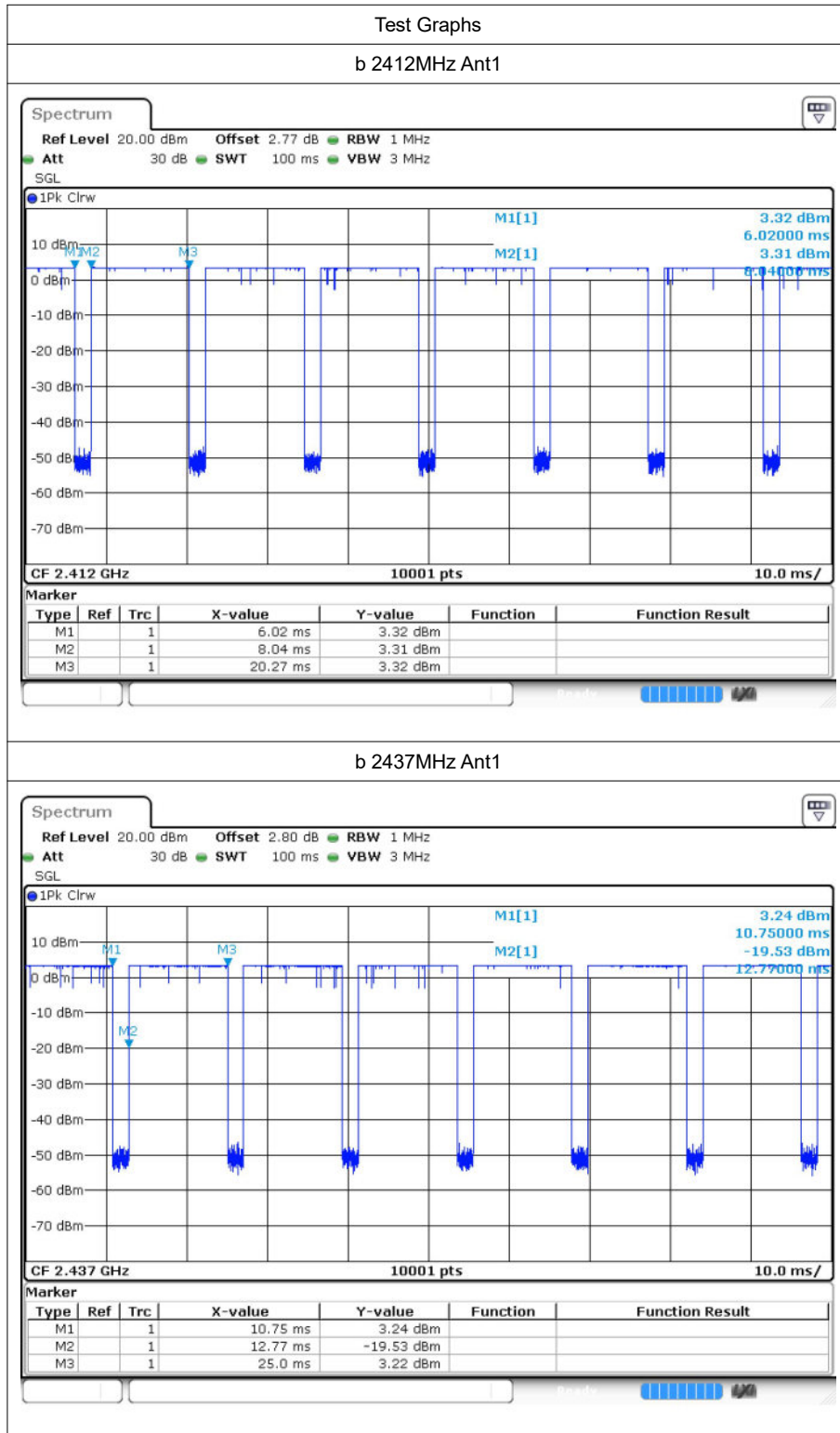


1 Duty Cycle

1.1 Test Result

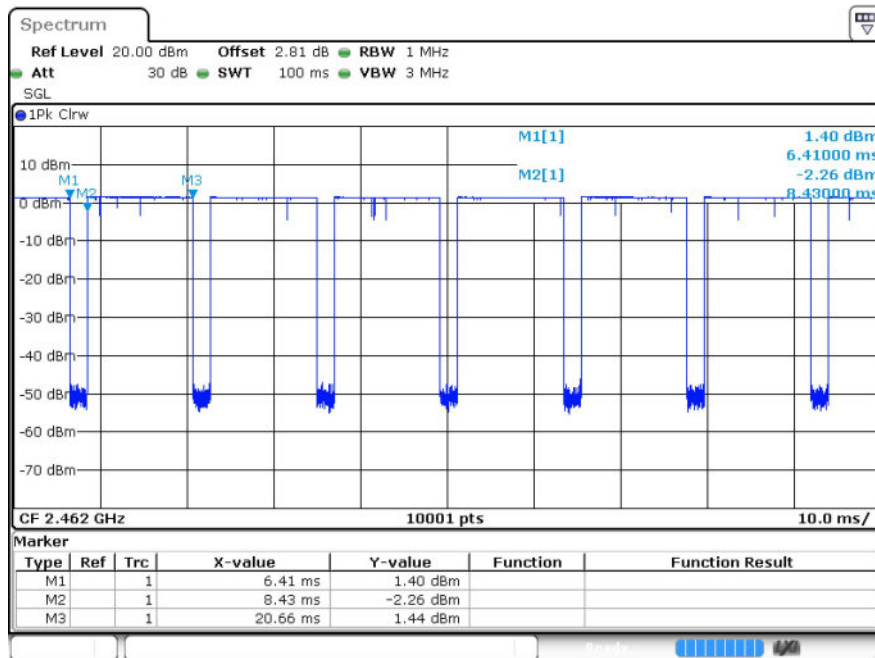
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor	1/T (kHz)
b	2412	Ant1	85.92	0.66	0.08
b	2437	Ant1	85.93	0.66	0.08
b	2462	Ant1	85.92	0.66	0.08
g	2412	Ant1	49.8	3.03	0.49
g	2437	Ant1	49.73	3.03	0.49
g	2462	Ant1	49.13	3.09	0.49
n20	2412	Ant1	48.44	3.15	0.53
n20	2437	Ant1	49.34	3.07	0.53
n20	2462	Ant1	47.88	3.2	0.53

1.2 Test Graphs

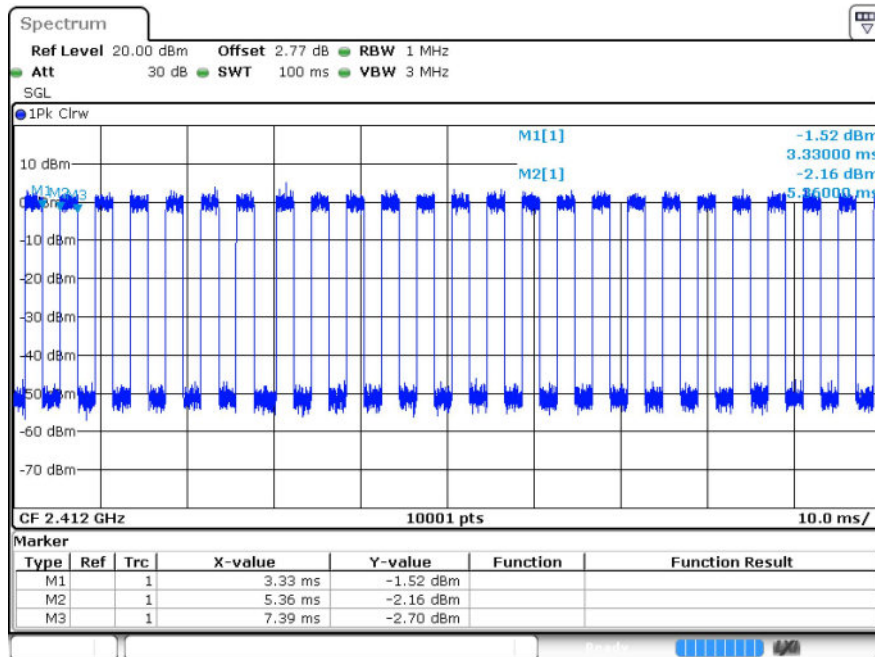


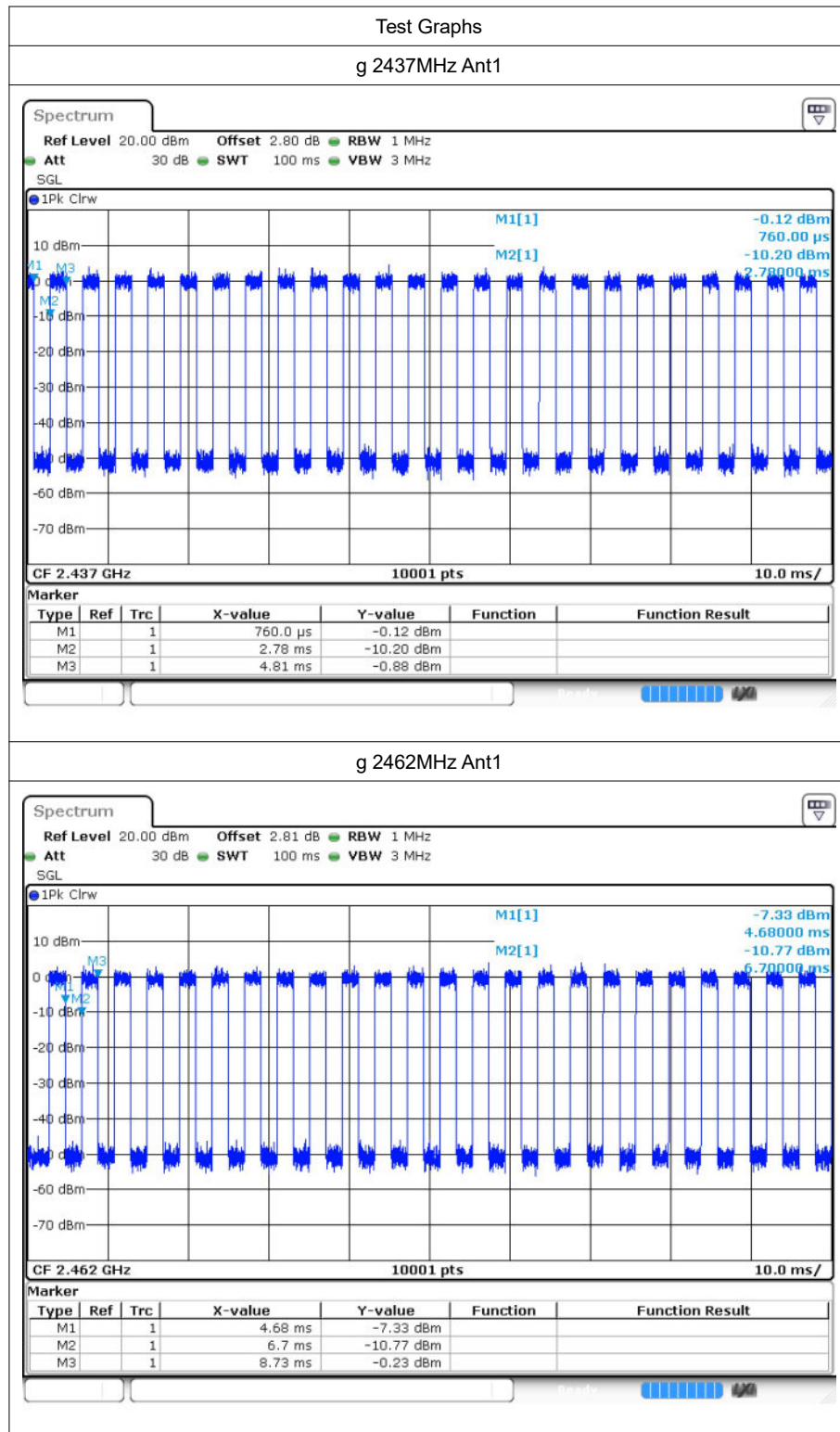
Test Graphs

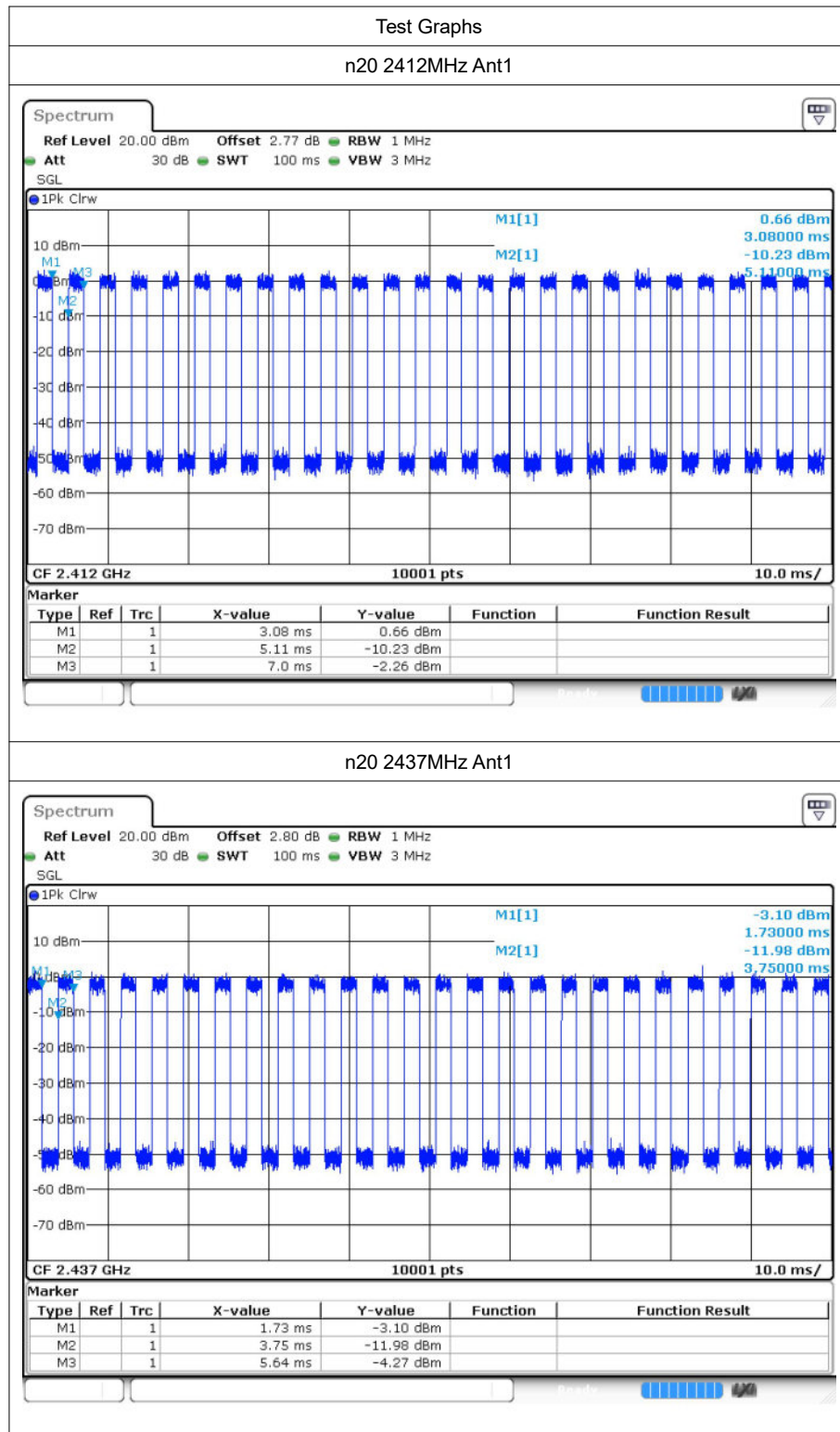
b 2462MHz Ant1

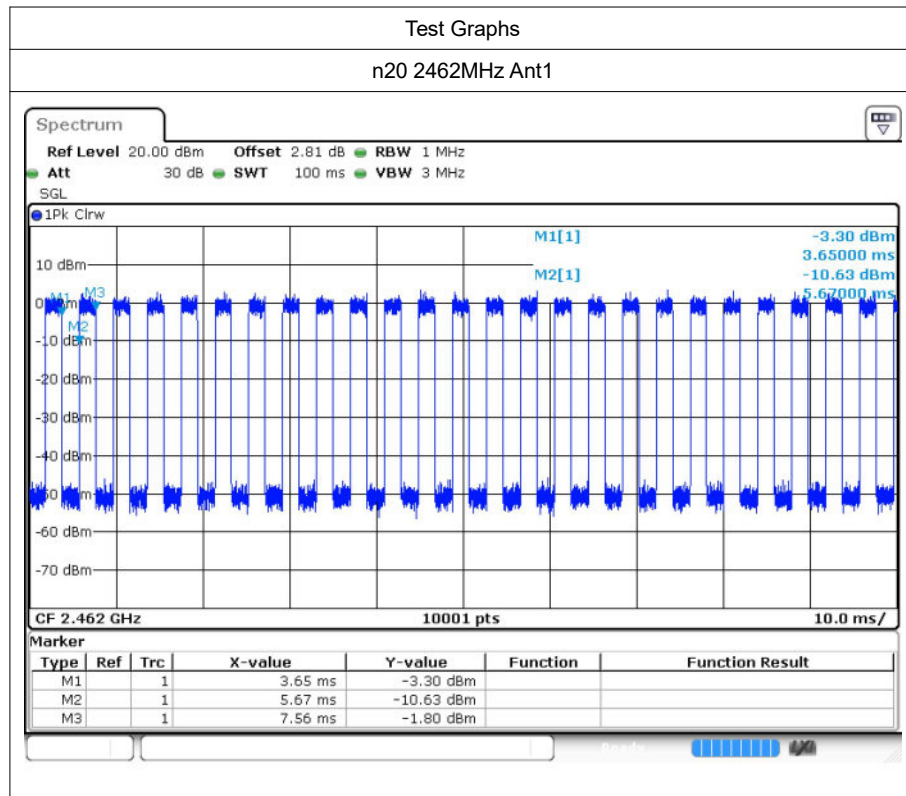


g 2412MHz Ant1









2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant1	13.66	30	Pass
b	2437	Ant1	13.48	30	Pass
b	2462	Ant1	12.97	30	Pass
g	2412	Ant1	13.06	30	Pass
g	2437	Ant1	12.93	30	Pass
g	2462	Ant1	12.49	30	Pass
n20	2412	Ant1	13.11	30	Pass
n20	2437	Ant1	13	30	Pass
n20	2462	Ant1	12.66	30	Pass

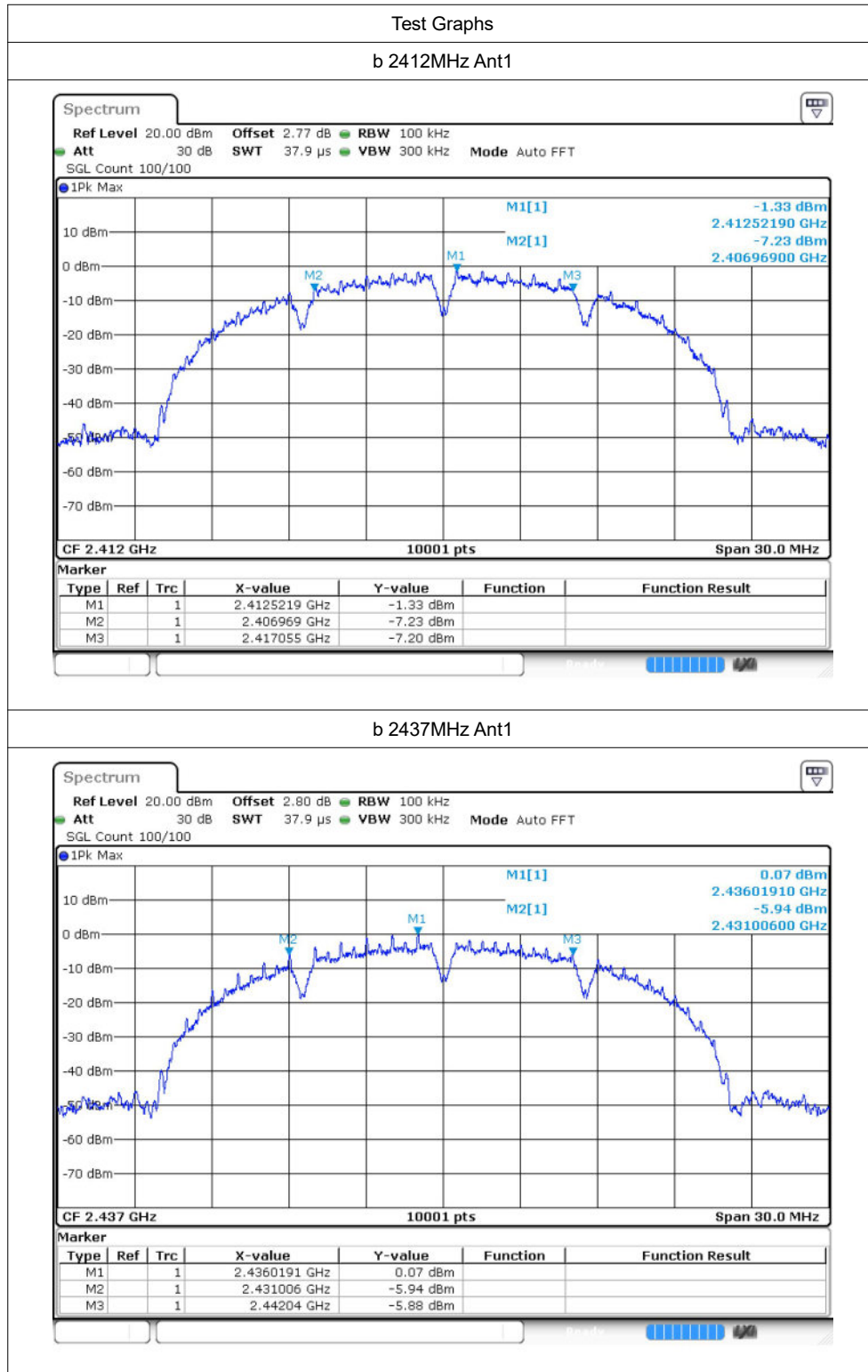


3 -6dB Bandwidth

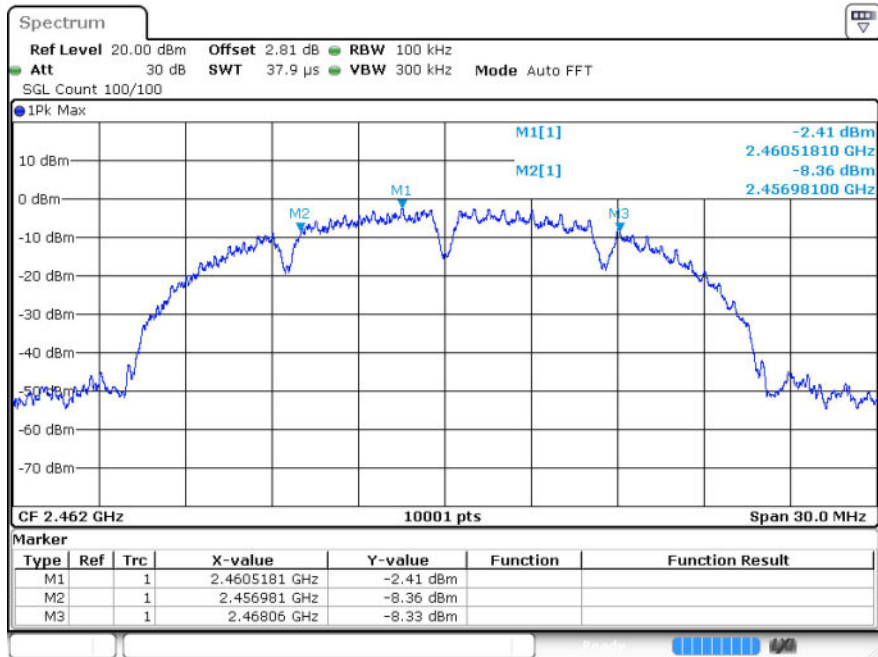
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	10.086	0.5	Pass
b	2437	Ant1	11.034	0.5	Pass
b	2462	Ant1	11.079	0.5	Pass
g	2412	Ant1	16.497	0.5	Pass
g	2437	Ant1	16.578	0.5	Pass
g	2462	Ant1	16.539	0.5	Pass
n20	2412	Ant1	17.619	0.5	Pass
n20	2437	Ant1	17.727	0.5	Pass
n20	2462	Ant1	17.751	0.5	Pass

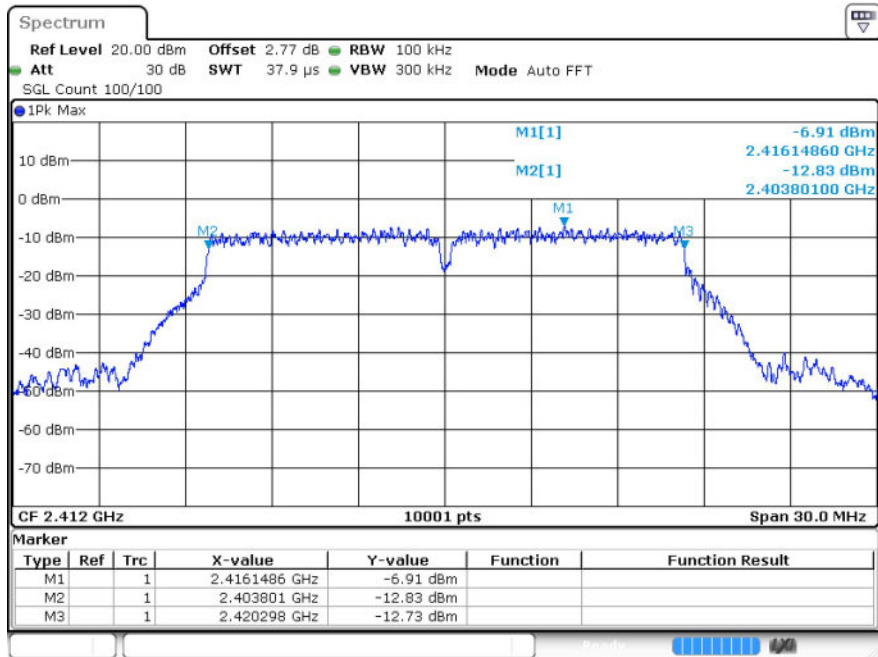
3.2 Test Graphs



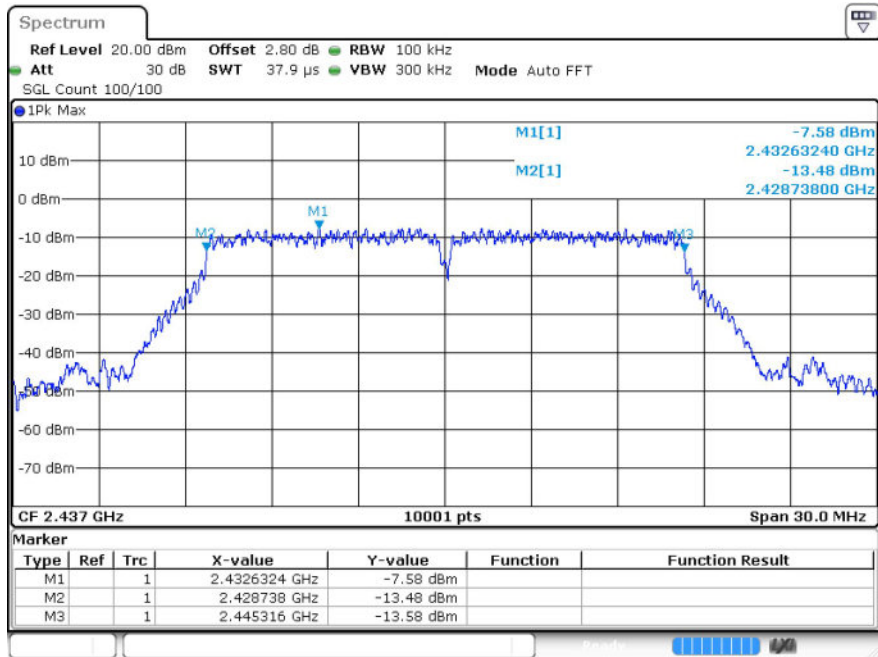
b 2462MHz Ant1



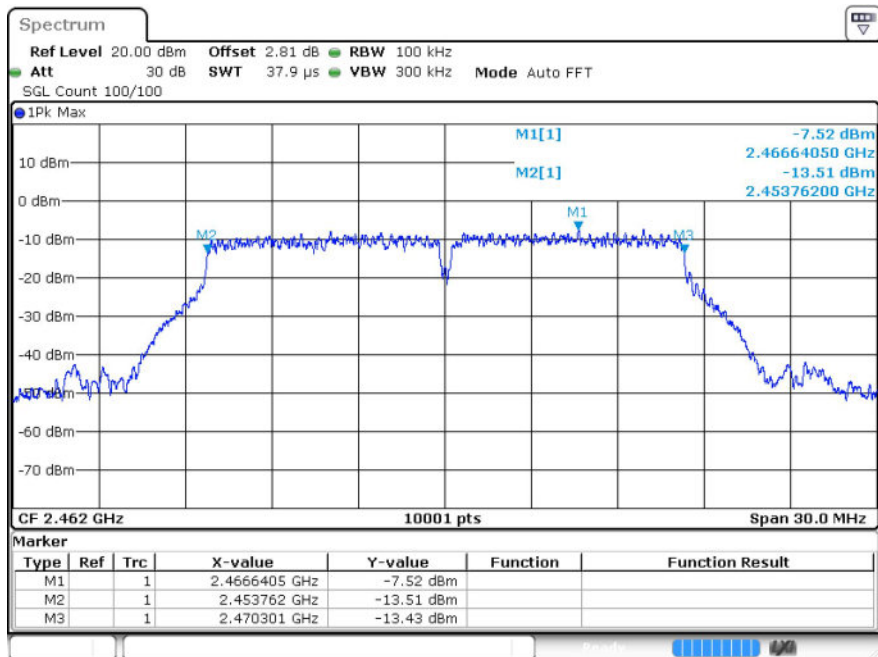
g 2412MHz Ant1

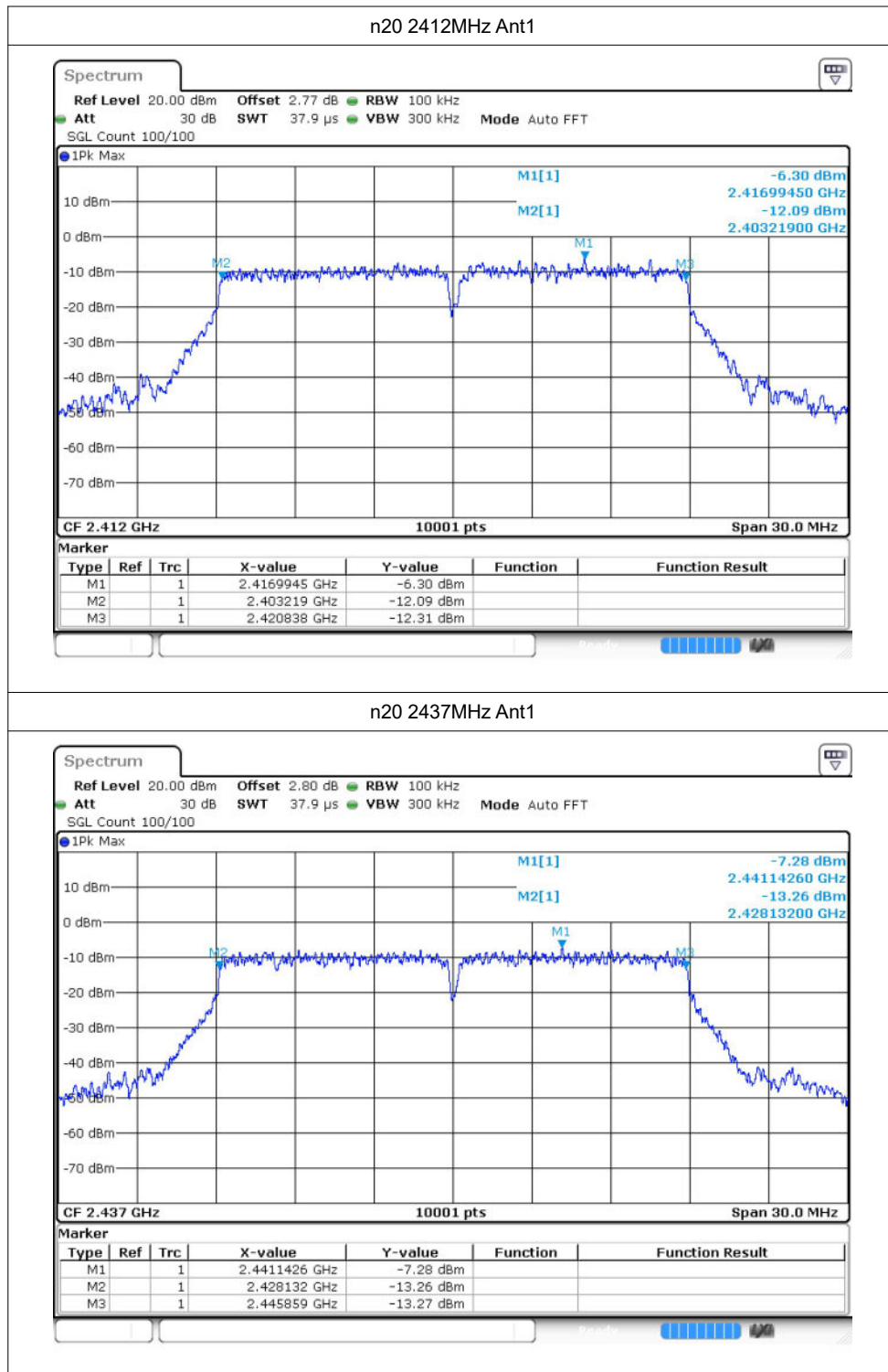


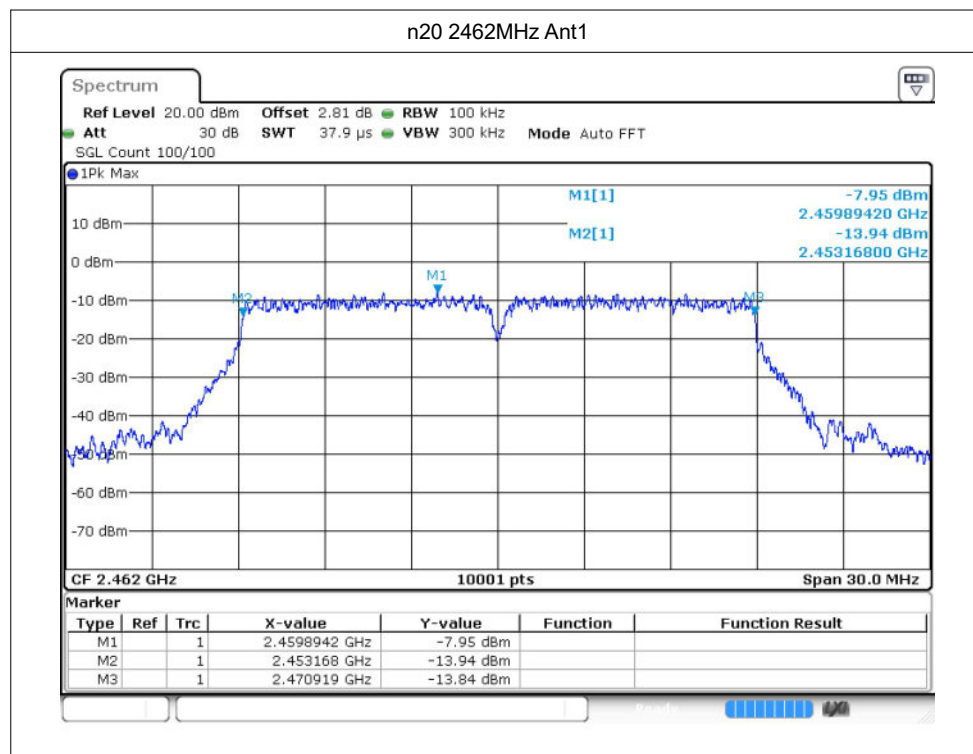
g 2437MHz Ant1



g 2462MHz Ant1





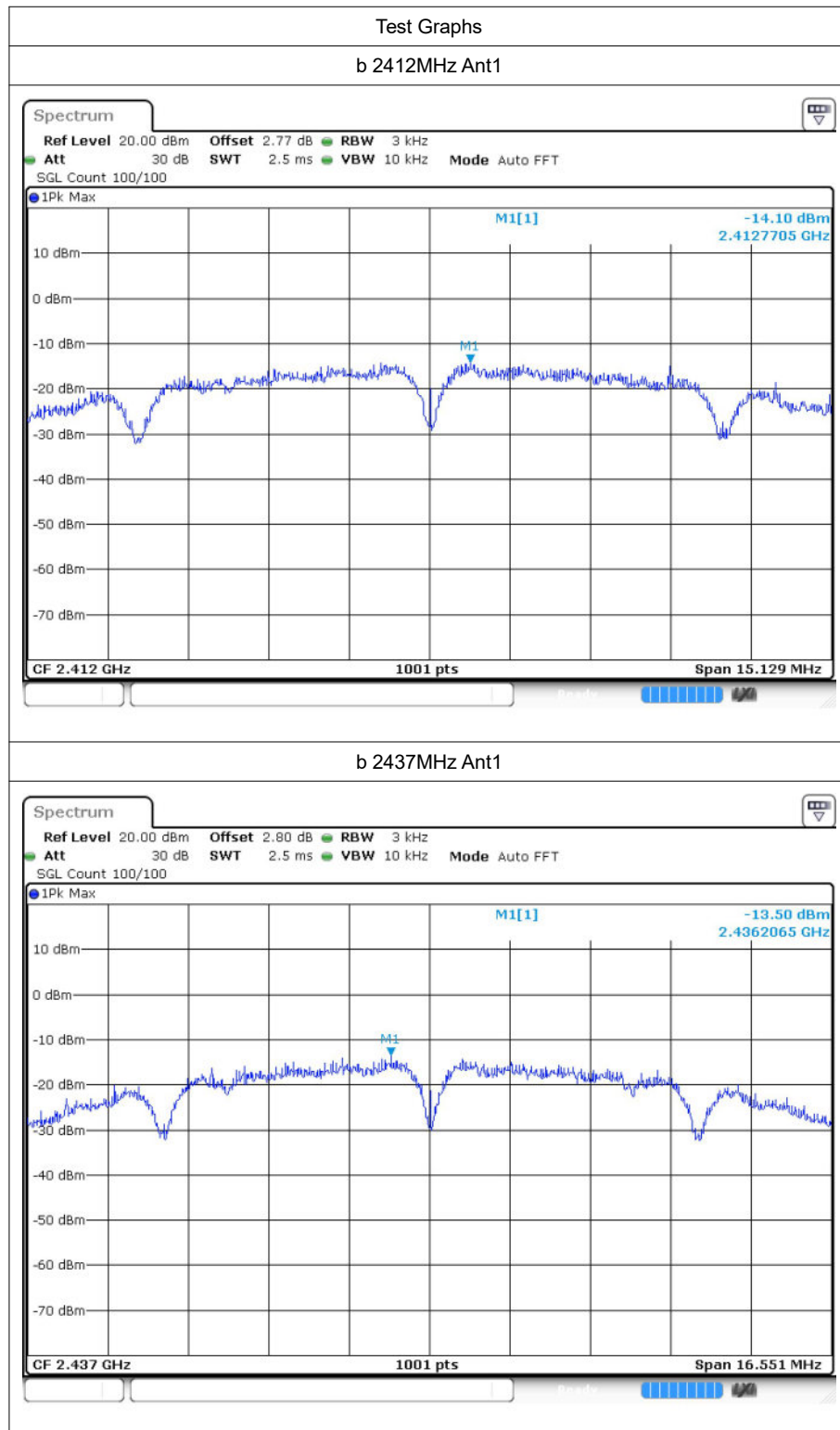


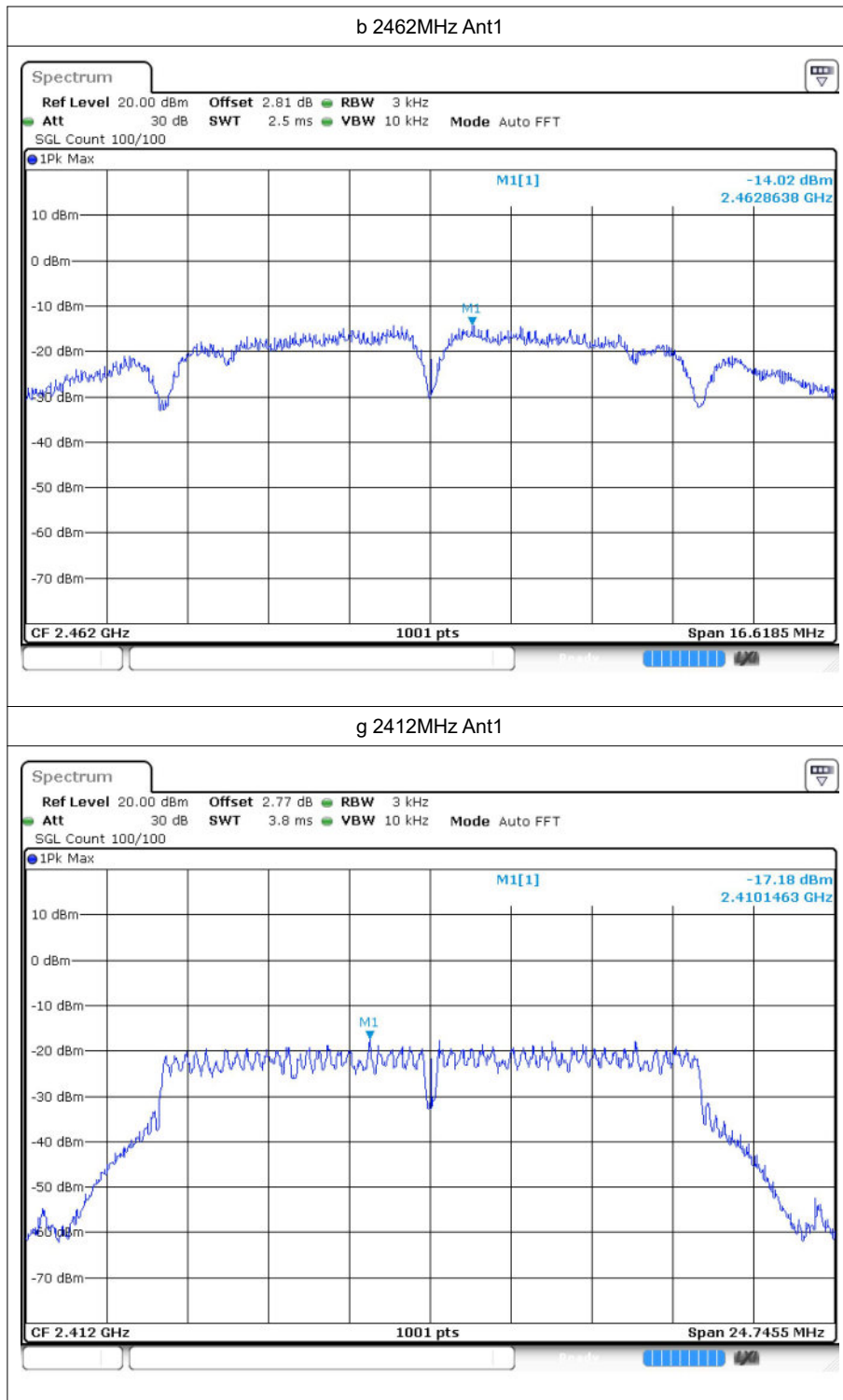
4 Maximum Power Spectral Density Level

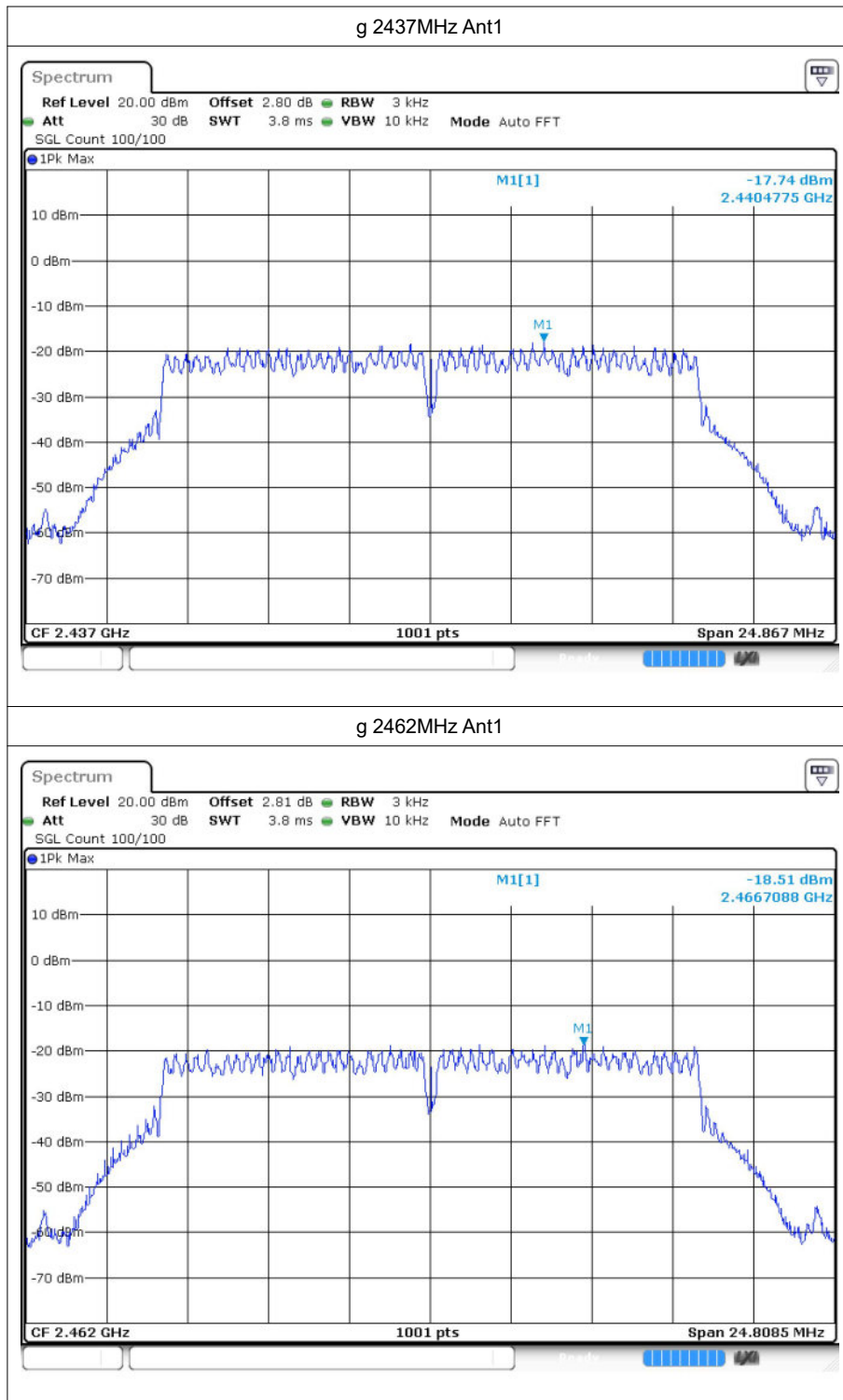
4.1 Test Result

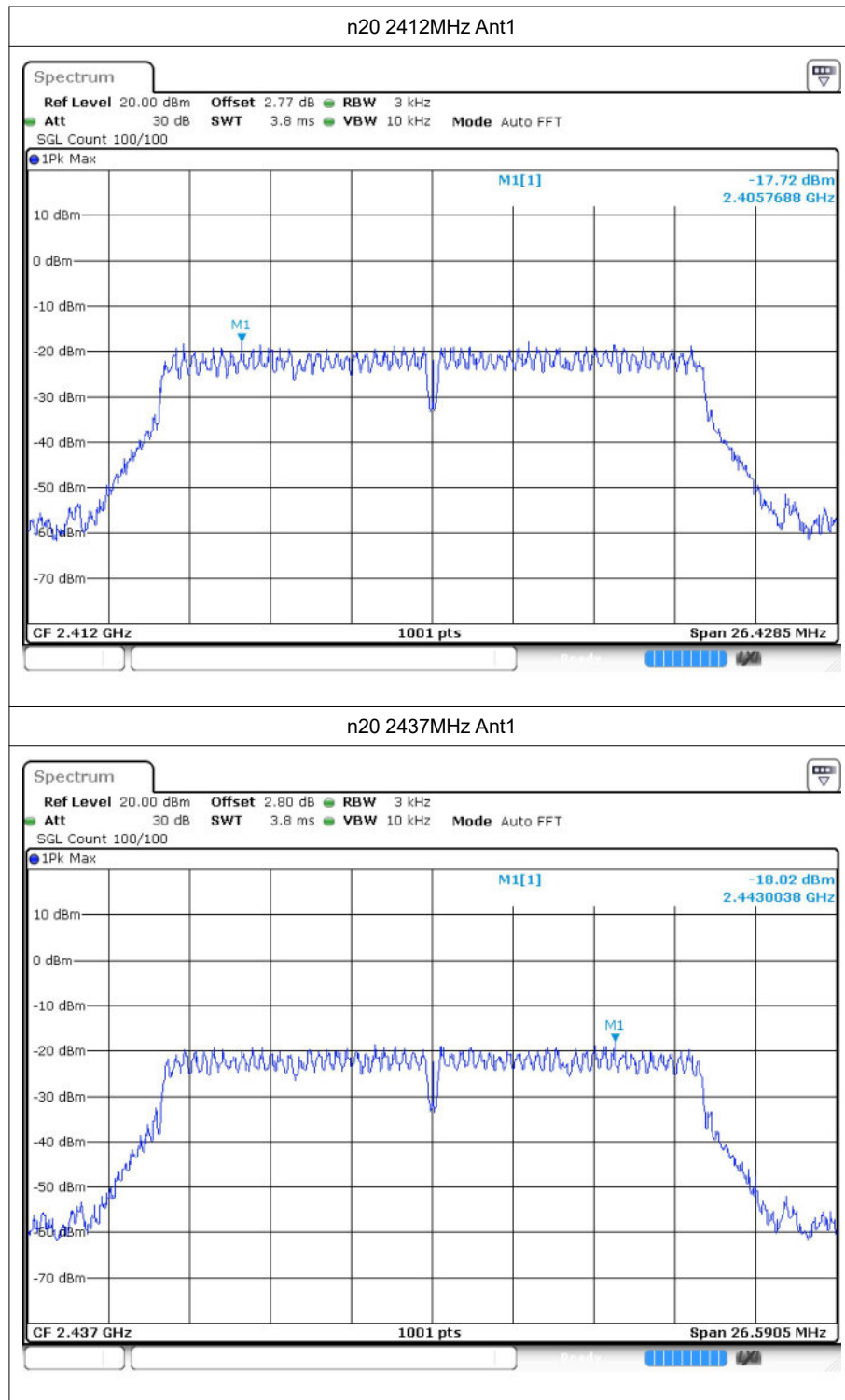
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
b	2412	Ant1	-14.1	≤ 8	Pass
b	2437	Ant1	-13.5	≤ 8	Pass
b	2462	Ant1	-14.02	≤ 8	Pass
g	2412	Ant1	-17.18	≤ 8	Pass
g	2437	Ant1	-17.74	≤ 8	Pass
g	2462	Ant1	-18.51	≤ 8	Pass
n20	2412	Ant1	-17.72	≤ 8	Pass
n20	2437	Ant1	-18.02	≤ 8	Pass
n20	2462	Ant1	-18.47	≤ 8	Pass

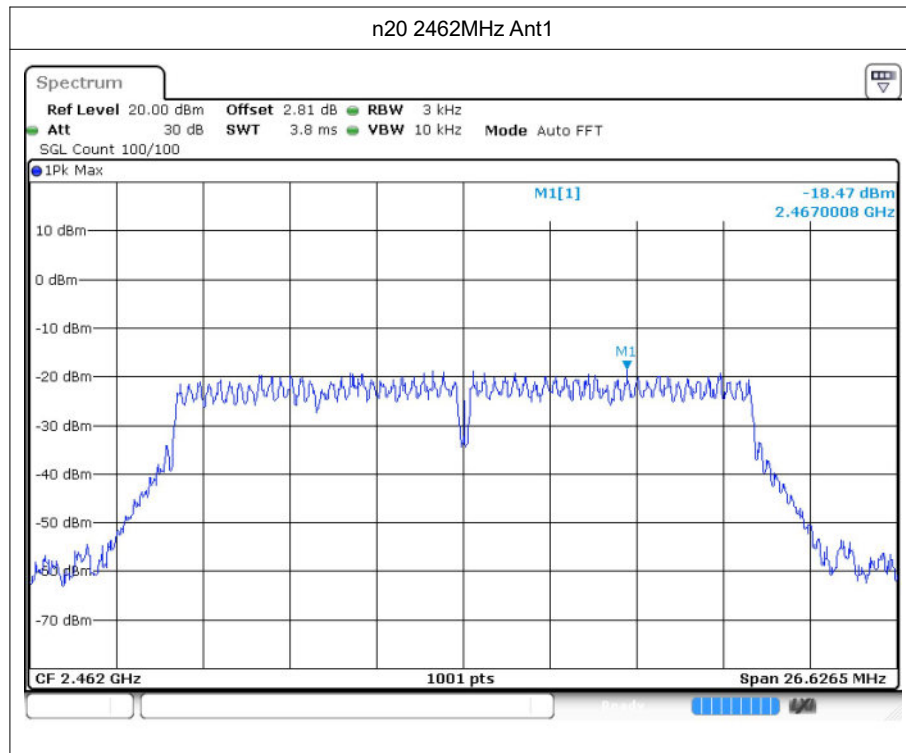
4.2 Test Graphs











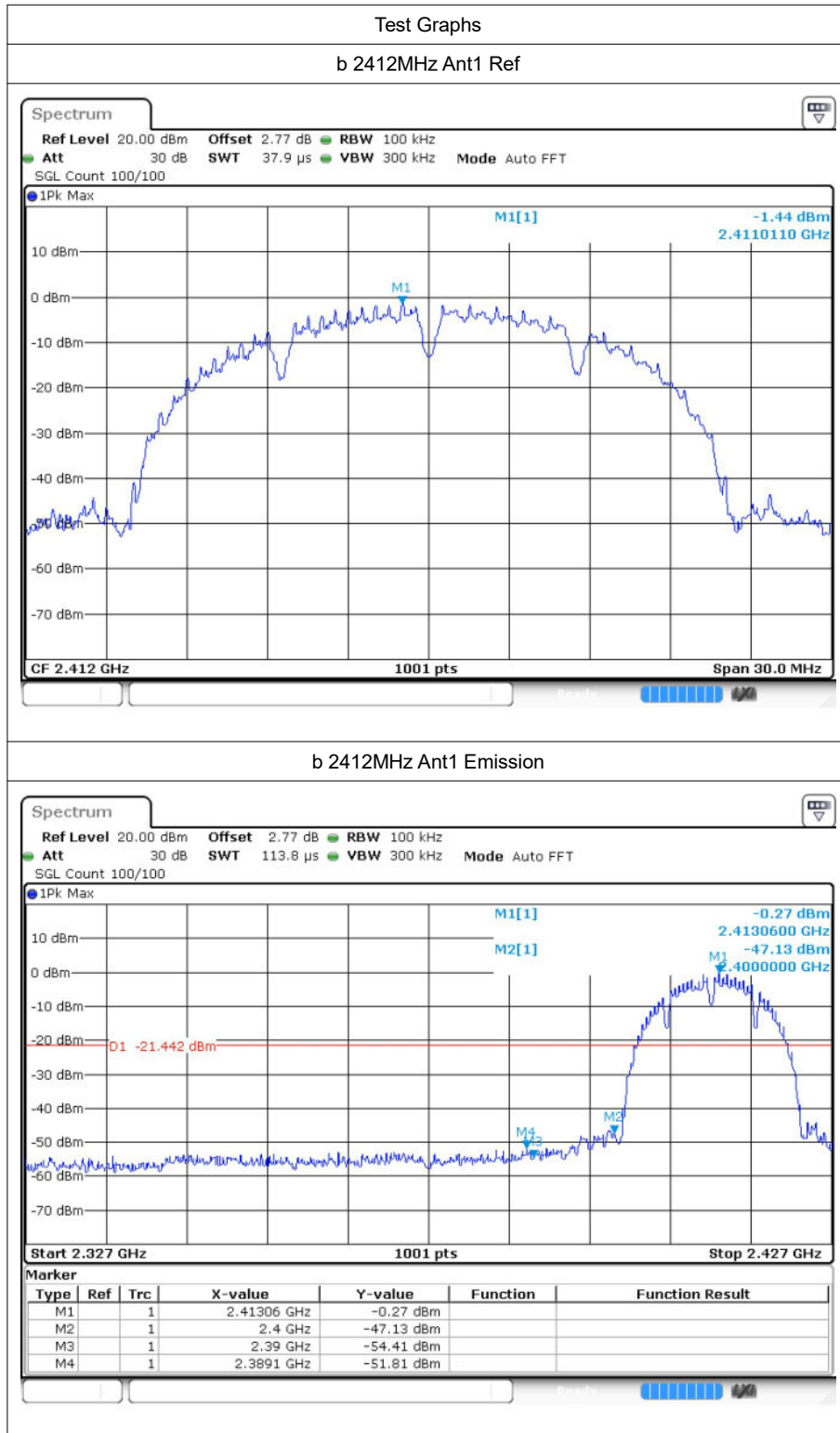


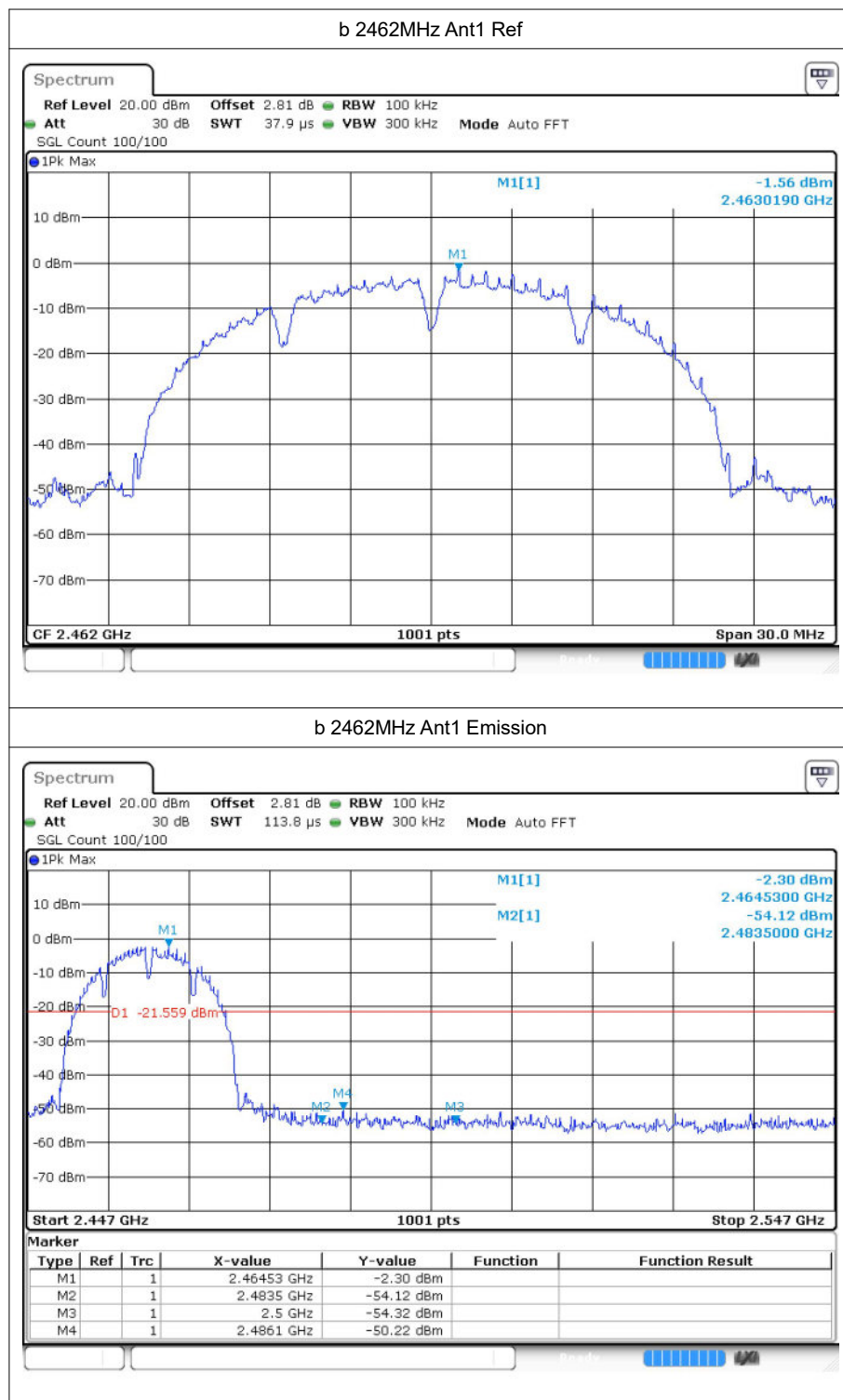
5 Band Edge

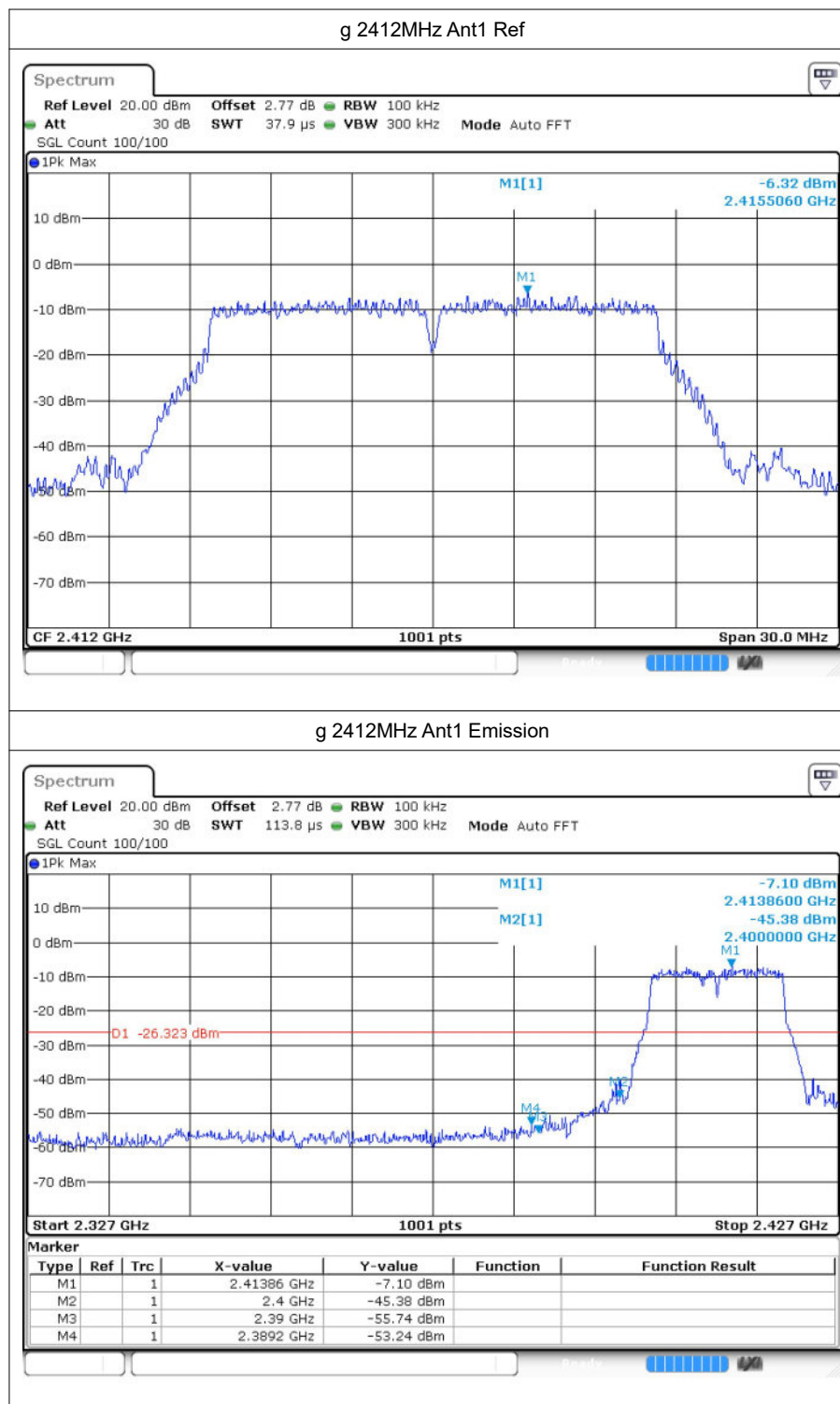
5.1 Test Result

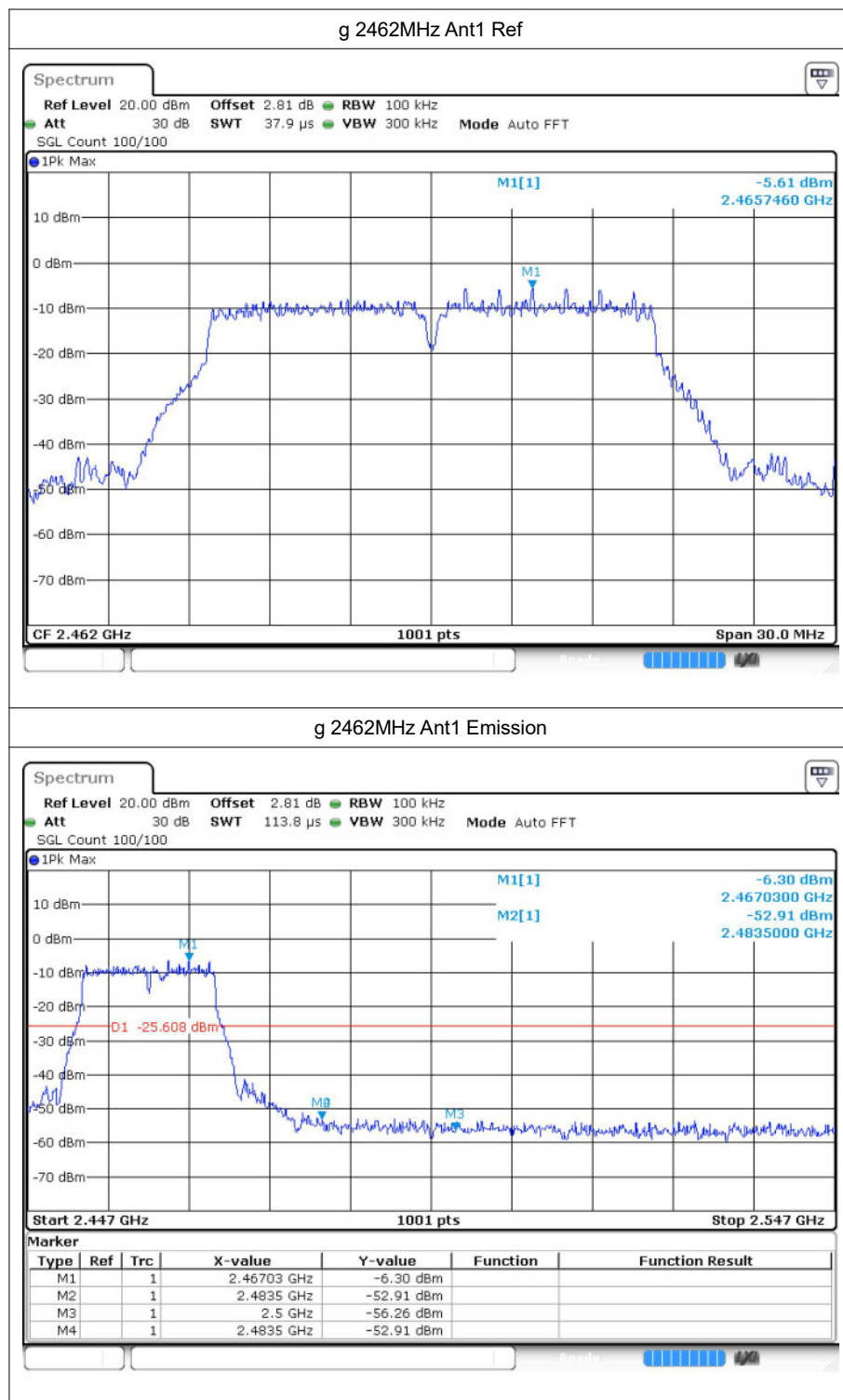
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-50.36	-20	Pass
b	2462	Ant1	-48.65	-20	Pass
g	2412	Ant1	-46.91	-20	Pass
g	2462	Ant1	-47.29	-20	Pass
n20	2412	Ant1	-45	-20	Pass
n20	2462	Ant1	-43.1	-20	Pass

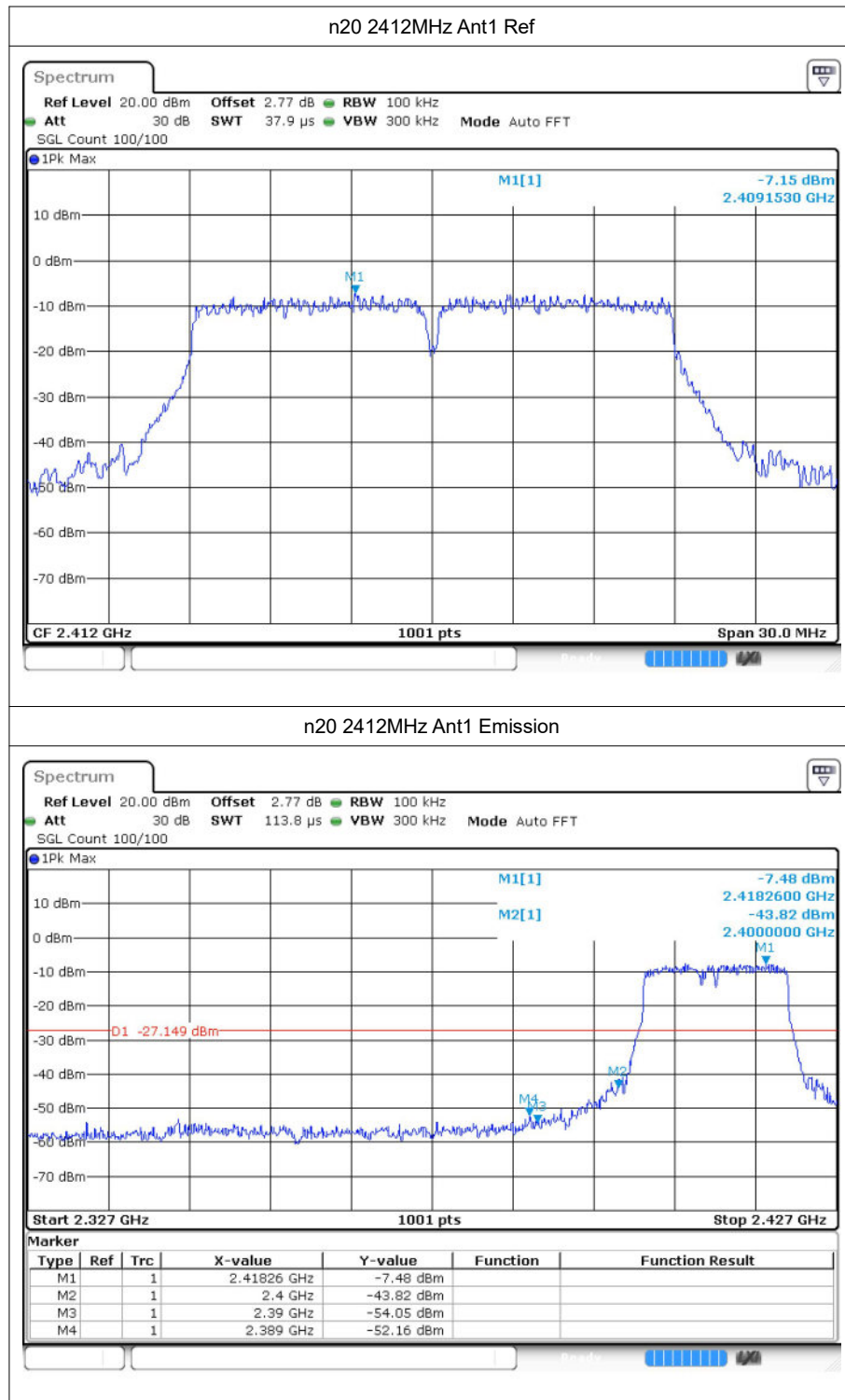
5.2 Test Graphs

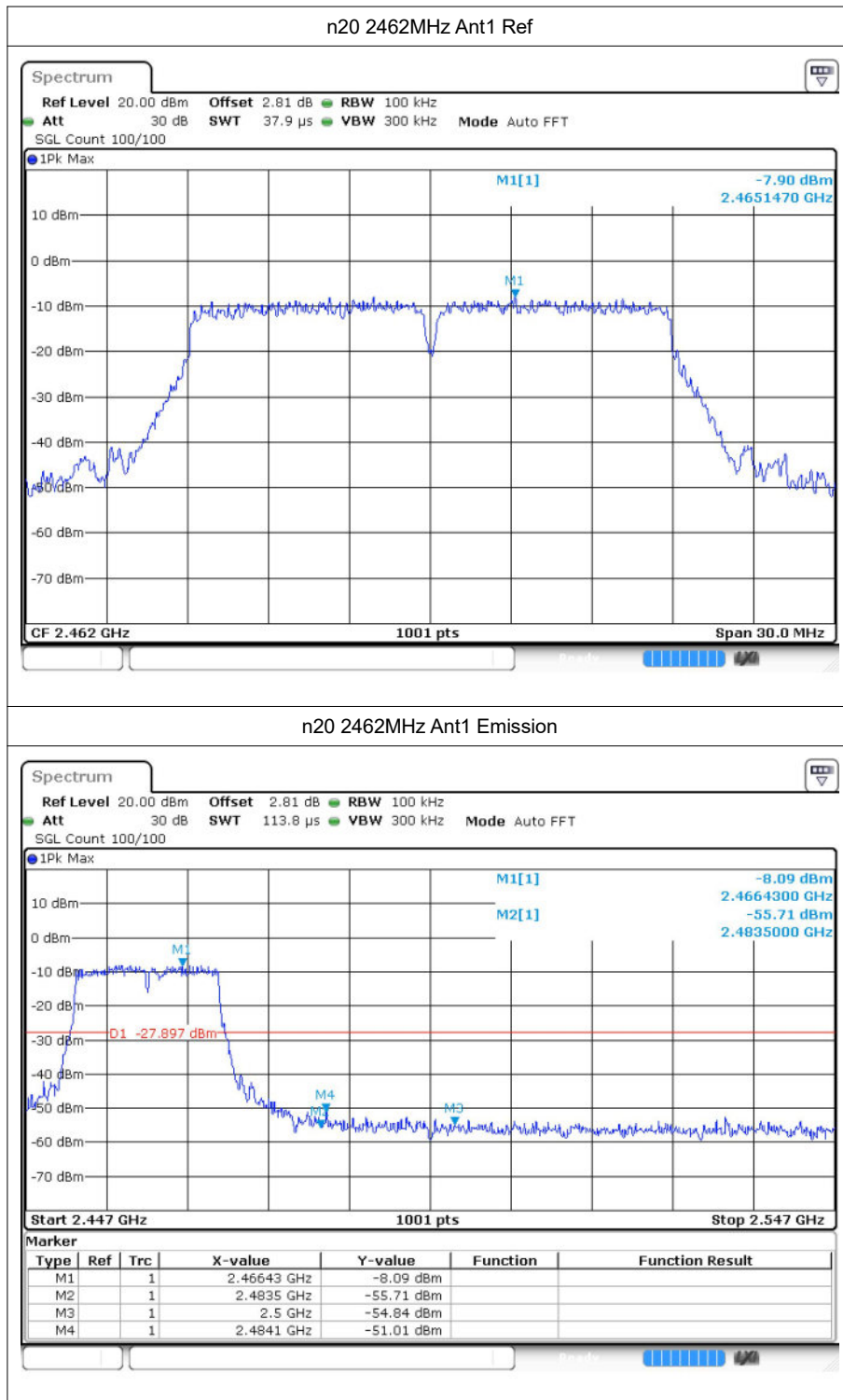












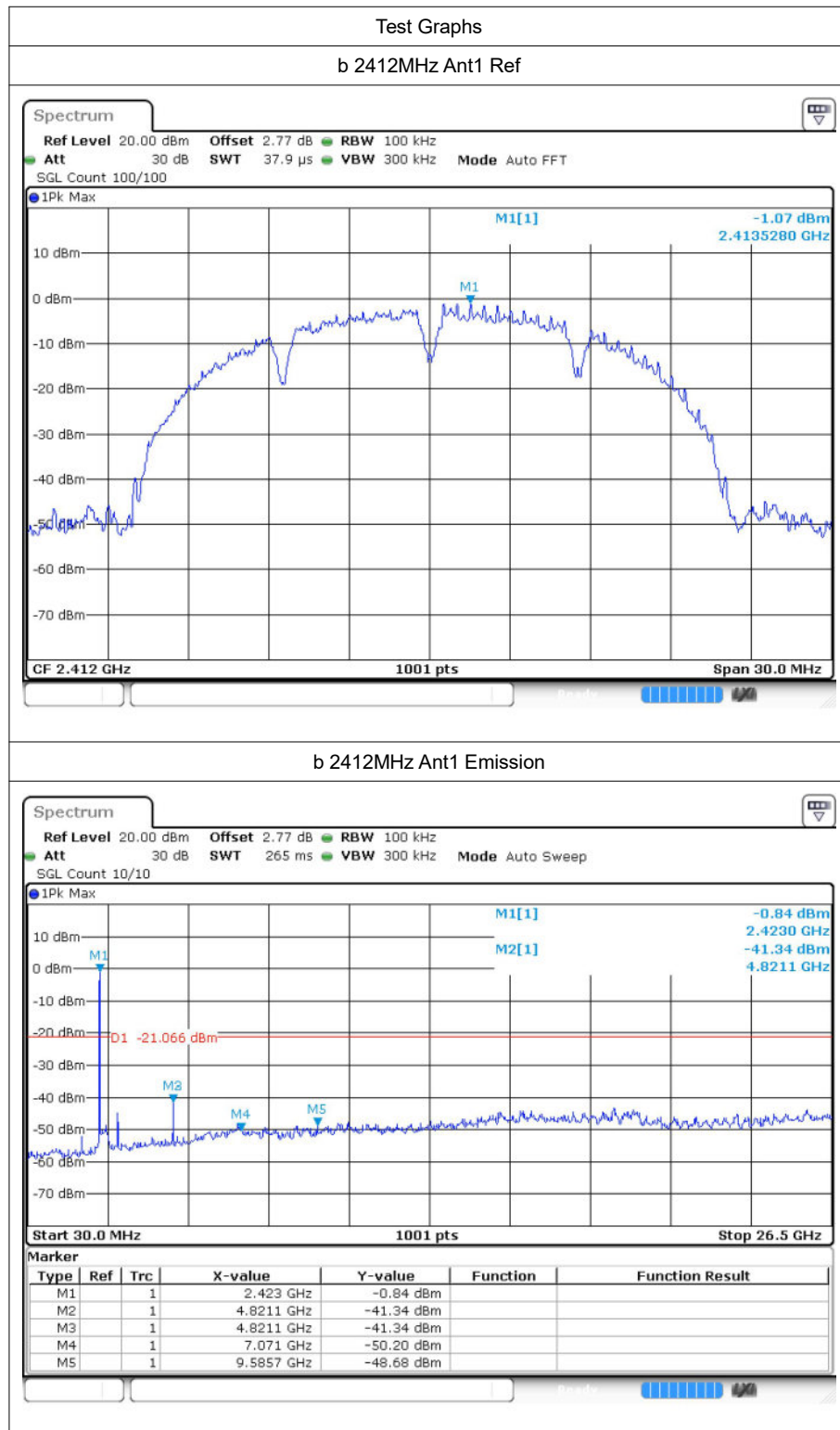


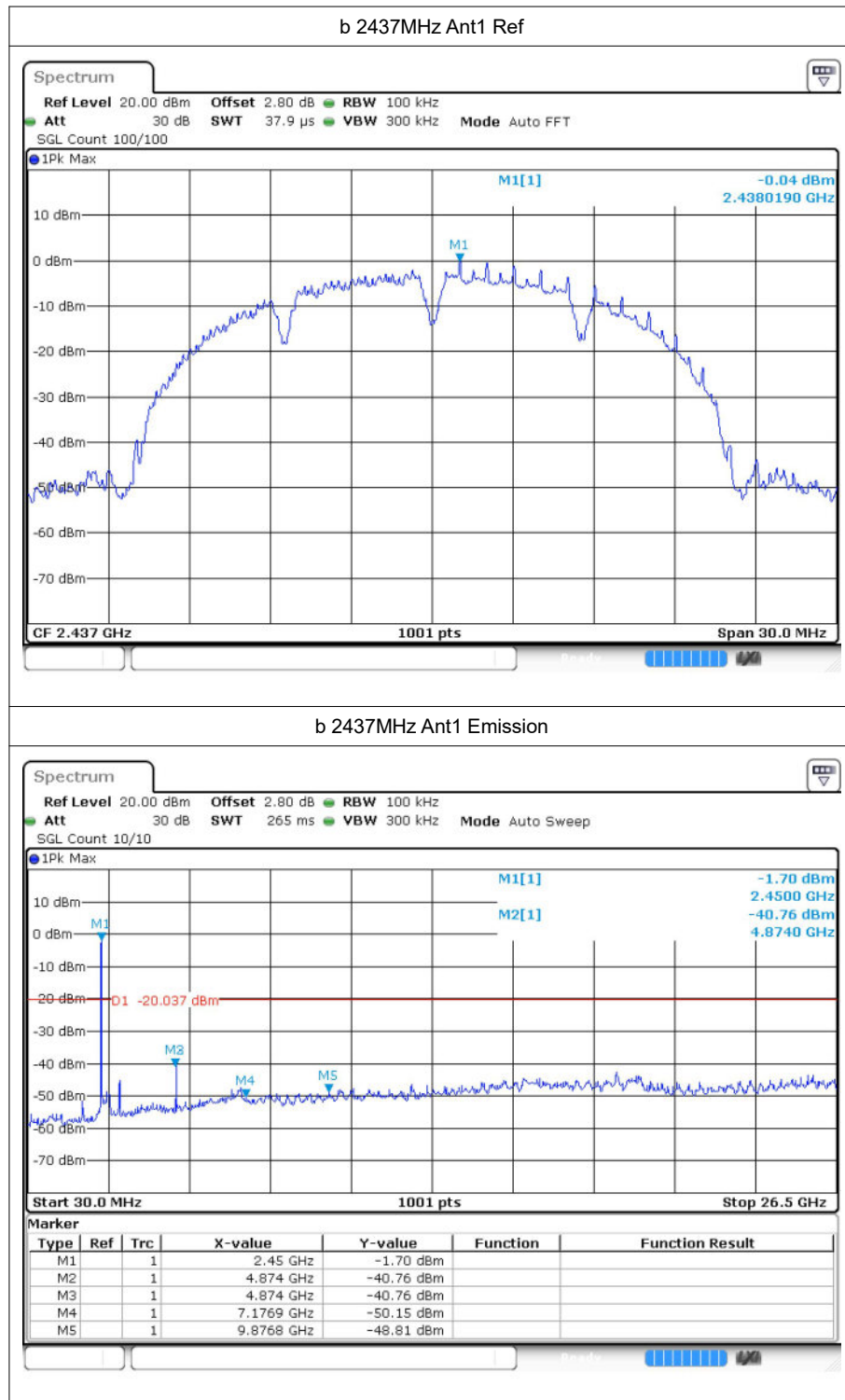
6 Conducted RF Spurious Emission

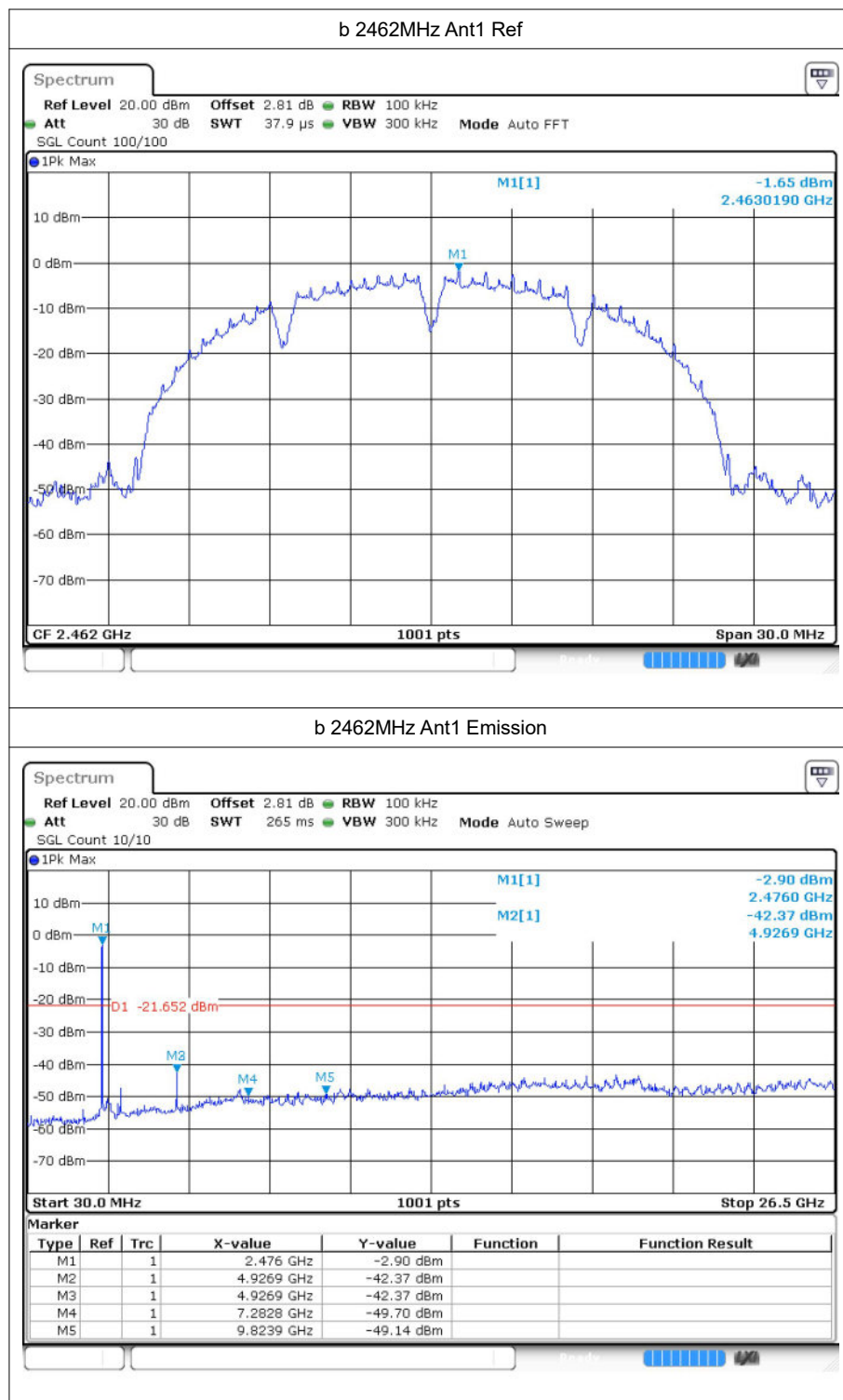
6.1 Test Result

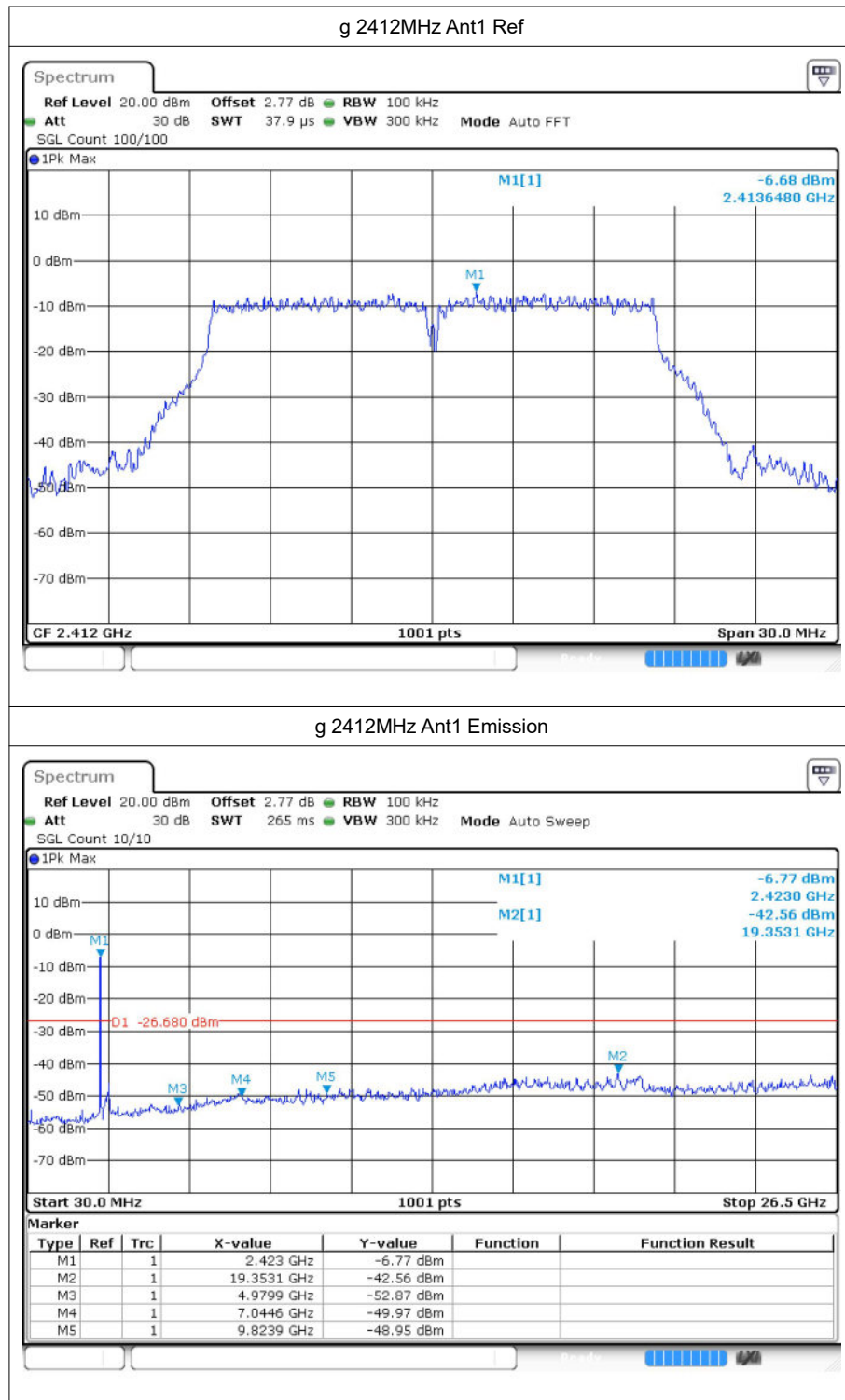
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-40.27	-20	Pass
b	2437	Ant1	-40.72	-20	Pass
b	2462	Ant1	-40.72	-20	Pass
g	2412	Ant1	-35.87	-20	Pass
g	2437	Ant1	-36.07	-20	Pass
g	2462	Ant1	-35.67	-20	Pass
n20	2412	Ant1	-35.36	-20	Pass
n20	2437	Ant1	-35.63	-20	Pass
n20	2462	Ant1	-36.23	-20	Pass

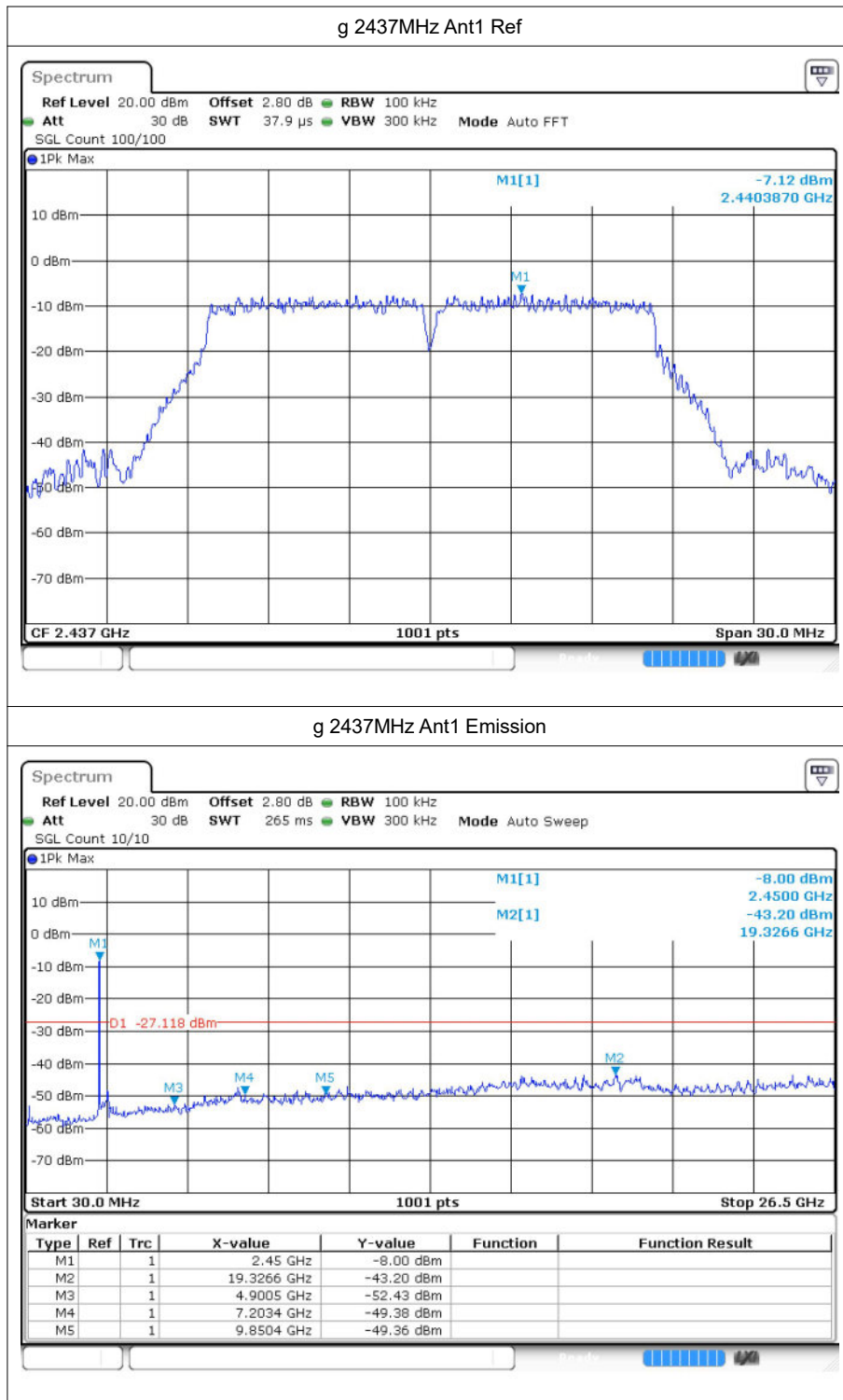
6.2 Test Graphs

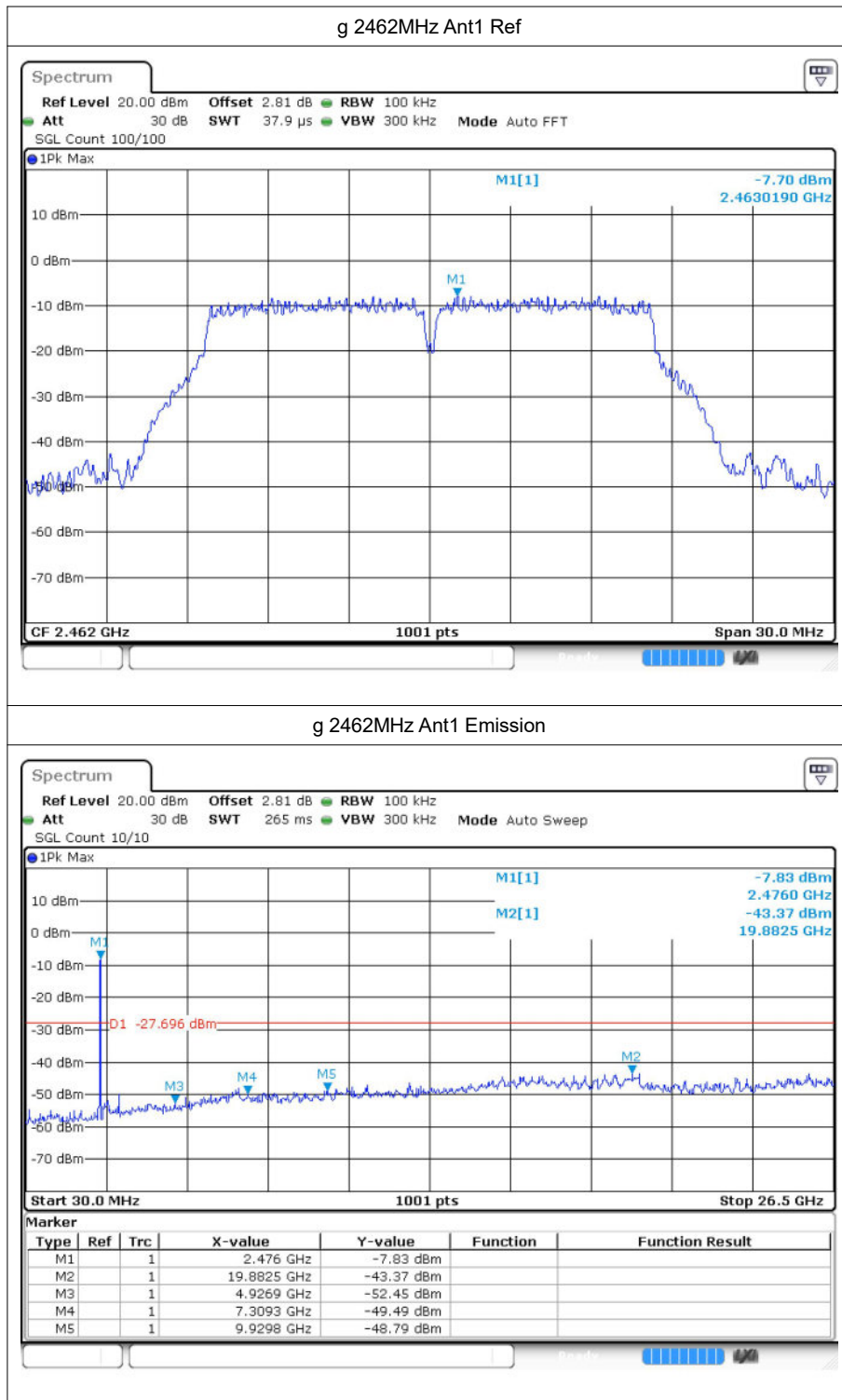


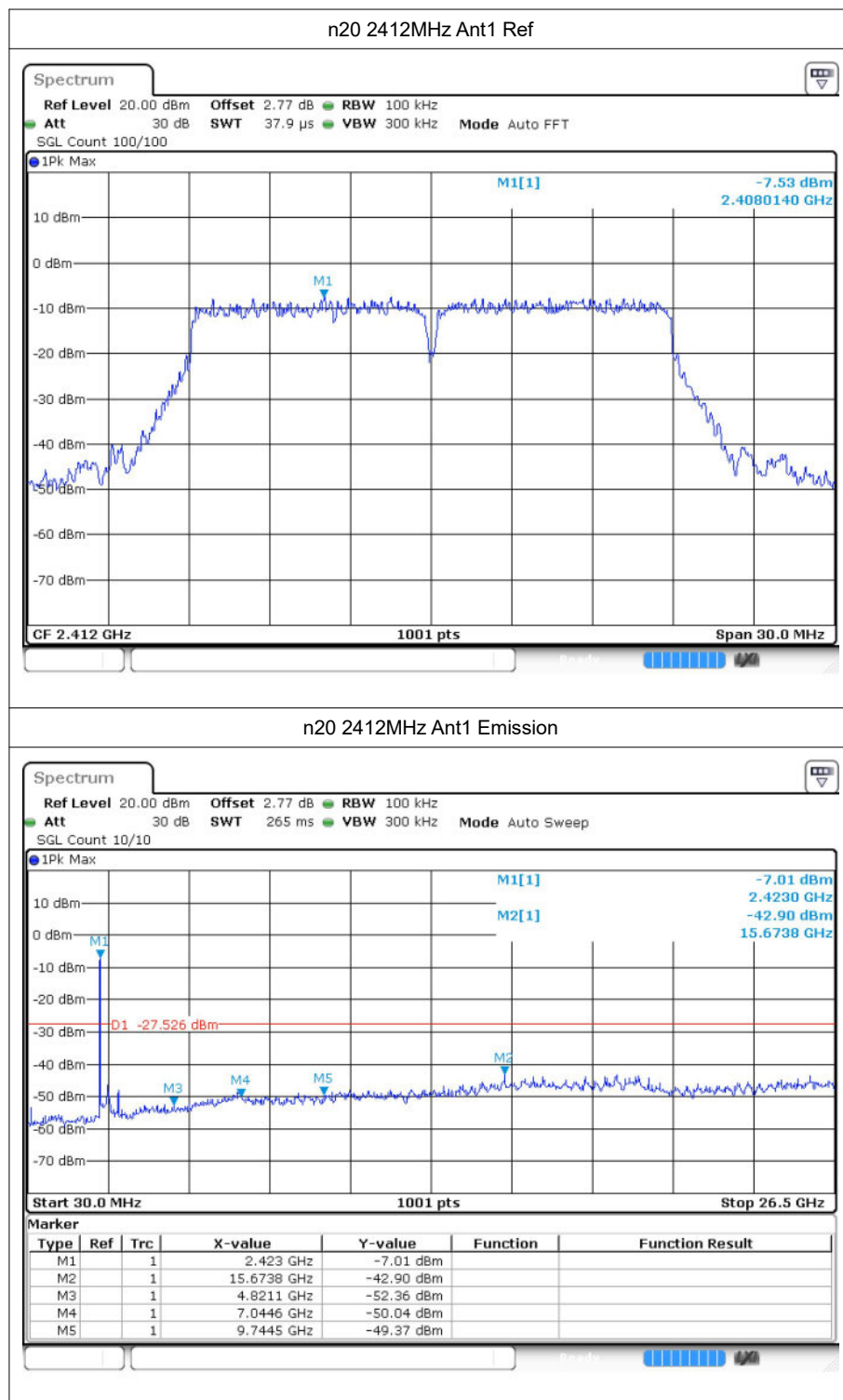


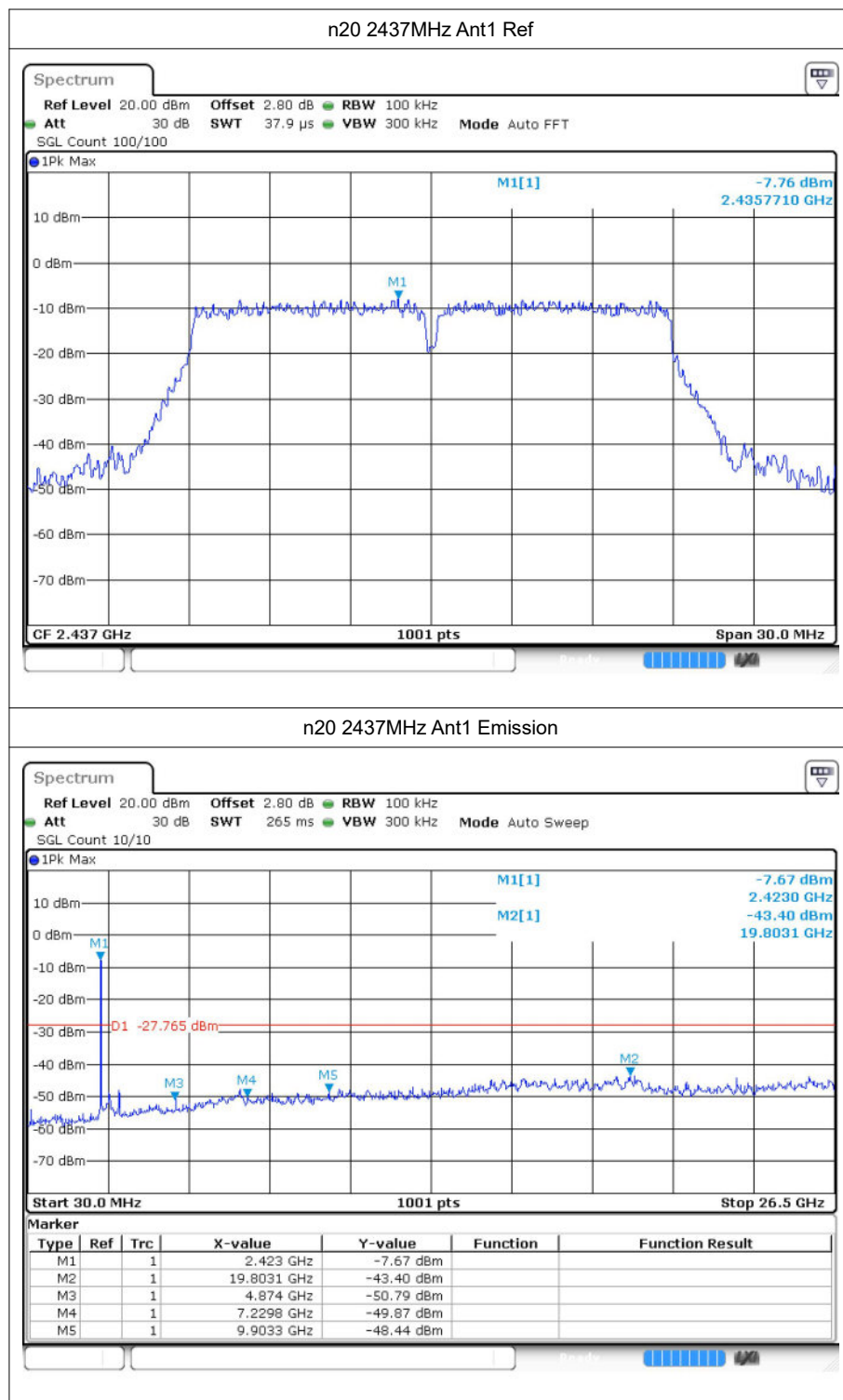


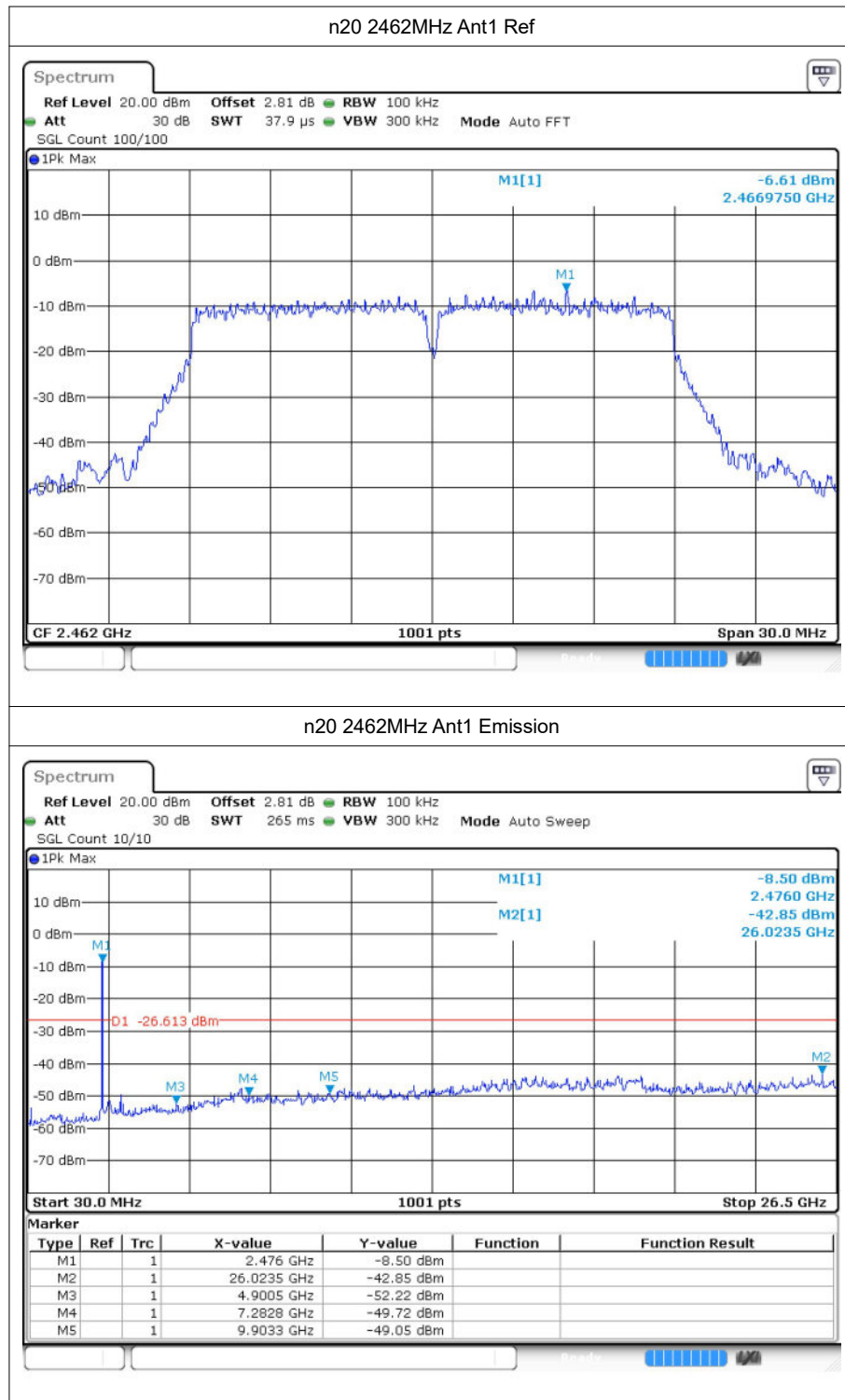














7 Restrict Band

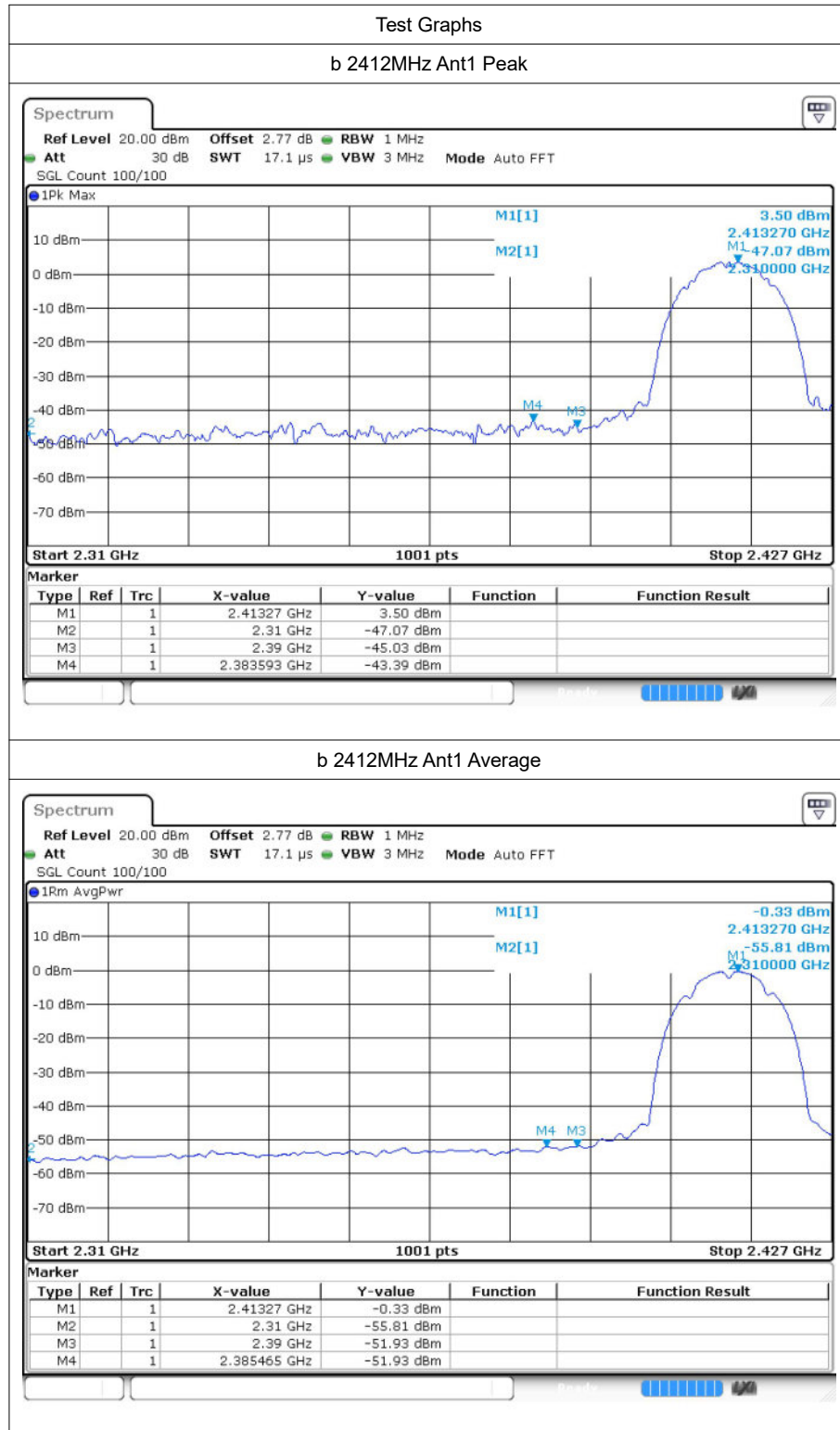
7.1 Test Result

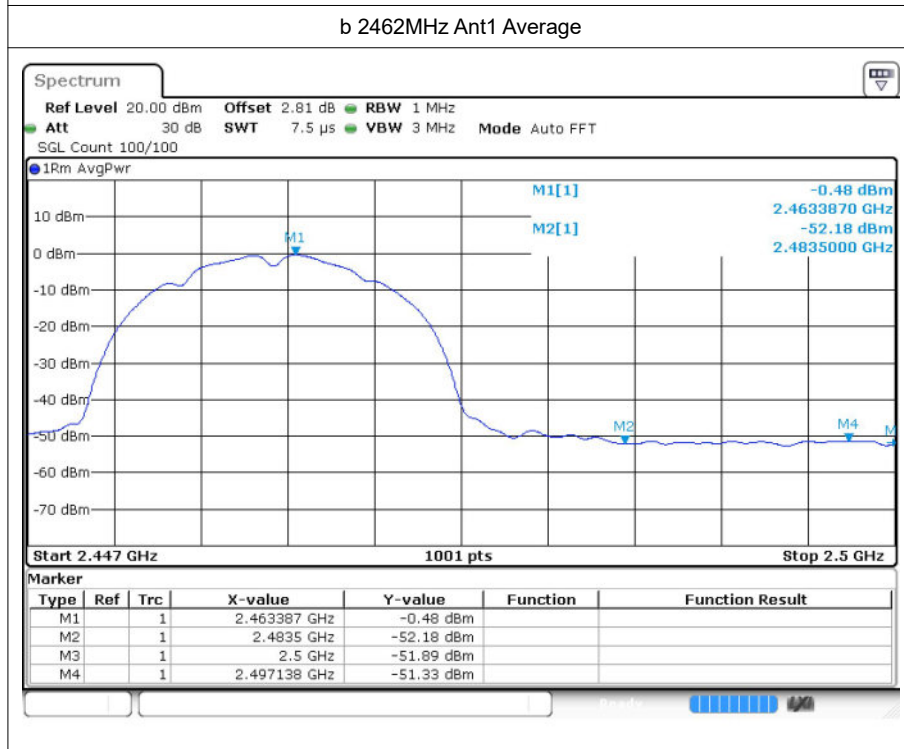
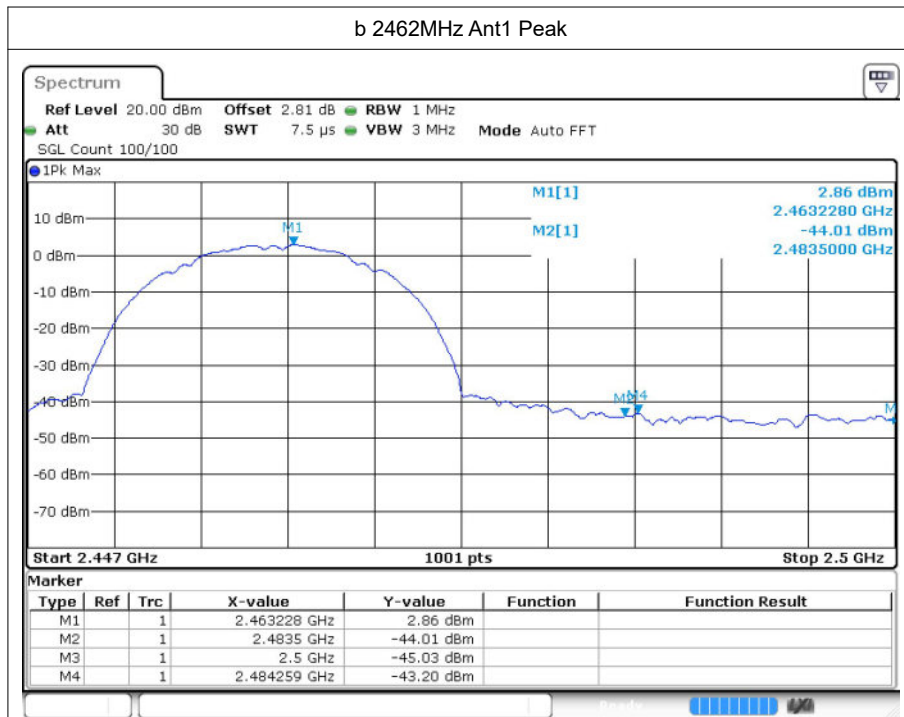
Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
b	2412	Ant1	2310	-47.07	2.69	-	50.85	Peak	74	Pass
b	2412	Ant1	2310	-55.81	2.69	0.66	42.77	Average	54	Pass
b	2412	Ant1	2383.593	-43.38	2.69	-	54.54	Peak	74	Pass
b	2412	Ant1	2385.465	-51.92	2.69	0.66	46.66	Average	54	Pass
b	2412	Ant1	2390	-45.03	2.69	-	52.89	Peak	74	Pass
b	2412	Ant1	2390	-51.93	2.69	0.66	46.65	Average	54	Pass
b	2462	Ant1	2483.5	-44.01	2.69	-	53.91	Peak	74	Pass
b	2462	Ant1	2483.5	-52.18	2.69	0.66	46.4	Average	54	Pass
b	2462	Ant1	2484.259	-43.19	2.69	-	54.73	Peak	74	Pass
b	2462	Ant1	2497.138	-51.32	2.69	0.66	47.26	Average	54	Pass
b	2462	Ant1	2500	-45.03	2.69	-	52.89	Peak	74	Pass
b	2462	Ant1	2500	-51.89	2.69	0.66	46.69	Average	54	Pass
g	2412	Ant1	2310	-49.31	2.69	-	48.61	Peak	74	Pass
g	2412	Ant1	2310	-55.57	2.69	3.03	45.38	Average	54	Pass
g	2412	Ant1	2389.326	-44.45	2.69	-	53.47	Peak	74	Pass
g	2412	Ant1	2389.326	-53.77	2.69	3.03	47.18	Average	54	Pass
g	2412	Ant1	2390	-45.8	2.69	-	52.12	Peak	74	Pass
g	2412	Ant1	2390	-54.3	2.69	3.03	46.65	Average	54	Pass
g	2462	Ant1	2483.5	-46.08	2.69	-	51.84	Peak	74	Pass
g	2462	Ant1	2483.5	-53.16	2.69	3.09	47.85	Average	54	Pass
g	2462	Ant1	2484.259	-44.1	2.69	-	53.82	Peak	74	Pass
g	2462	Ant1	2483.835	-53.07	2.69	3.09	47.94	Average	54	Pass
g	2462	Ant1	2500	-46.57	2.69	-	51.35	Peak	74	Pass
g	2462	Ant1	2500	-53.7	2.69	3.09	47.31	Average	54	Pass
n20	2412	Ant1	2310	-50.47	2.69	-	47.45	Peak	74	Pass
n20	2412	Ant1	2310	-55.98	2.69	3.15	45.09	Average	54	Pass
n20	2412	Ant1	2388.624	-43.96	2.69	-	53.96	Peak	74	Pass
n20	2412	Ant1	2338.782	-53.28	2.69	3.15	47.79	Average	54	Pass
n20	2412	Ant1	2390	-45.77	2.69	-	52.15	Peak	74	Pass
n20	2412	Ant1	2390	-53.72	2.69	3.15	47.35	Average	54	Pass
n20	2462	Ant1	2483.5	-46.33	2.69	-	51.59	Peak	74	Pass
n20	2462	Ant1	2483.5	-53.43	2.69	3.2	47.69	Average	54	Pass
n20	2462	Ant1	2497.721	-44.04	2.69	-	53.88	Peak	74	Pass
n20	2462	Ant1	2484.365	-52.93	2.69	3.2	48.19	Average	54	Pass

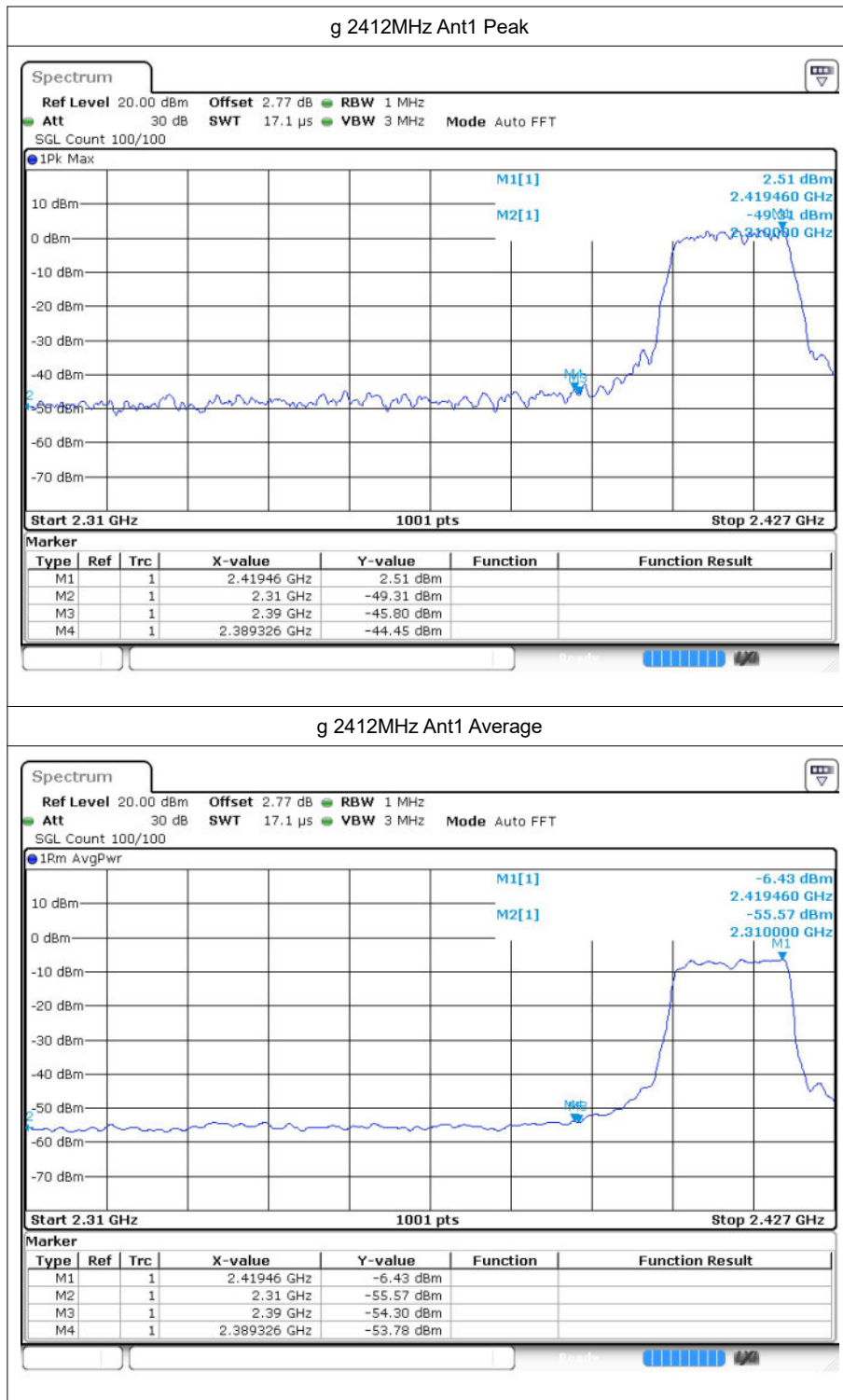


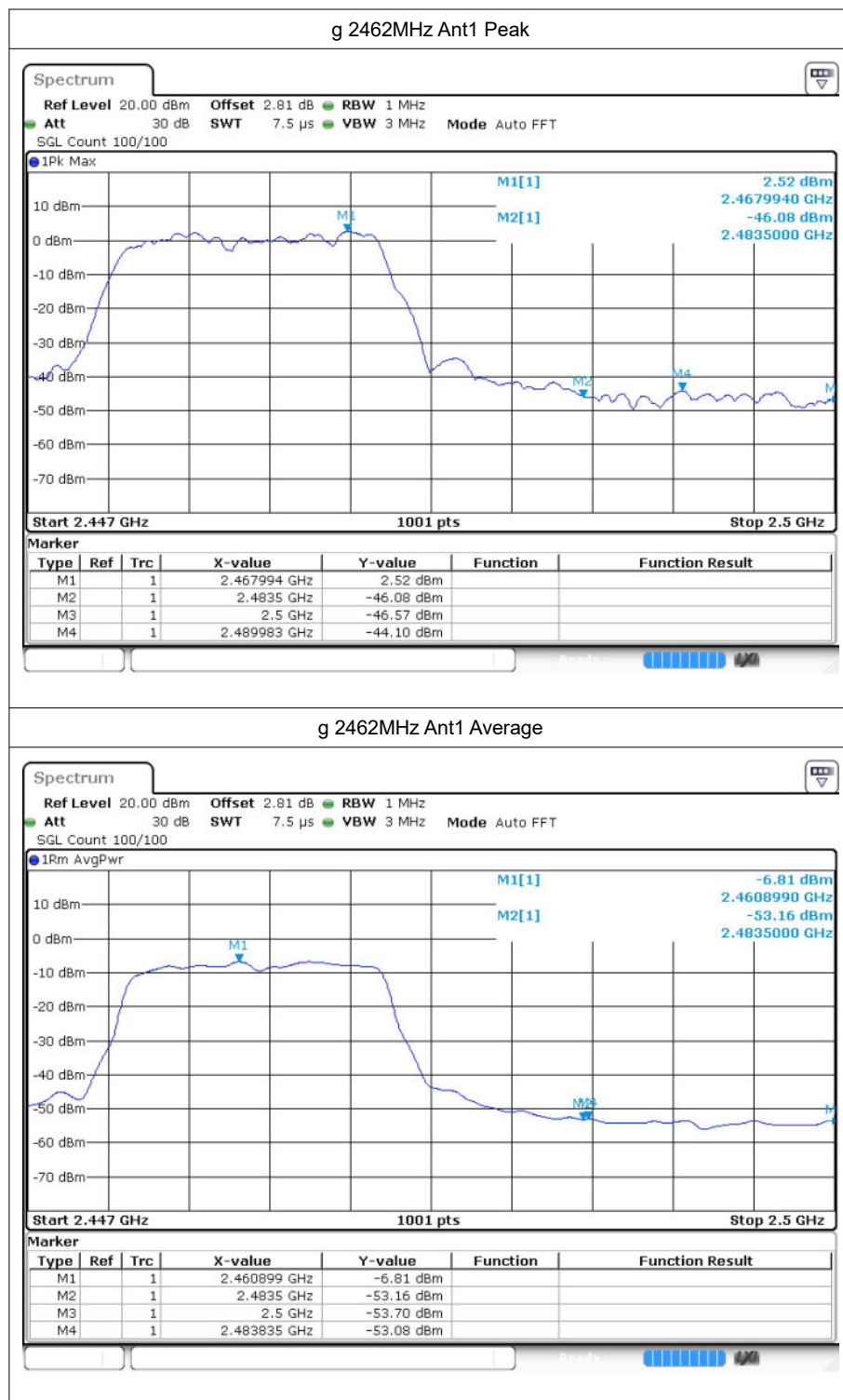
n20	2462	Ant1	2500	-44.42	2.69	-	53.5	Peak	74	Pass
n20	2462	Ant1	2500	-54.23	2.69	3.2	46.89	Average	54	Pass

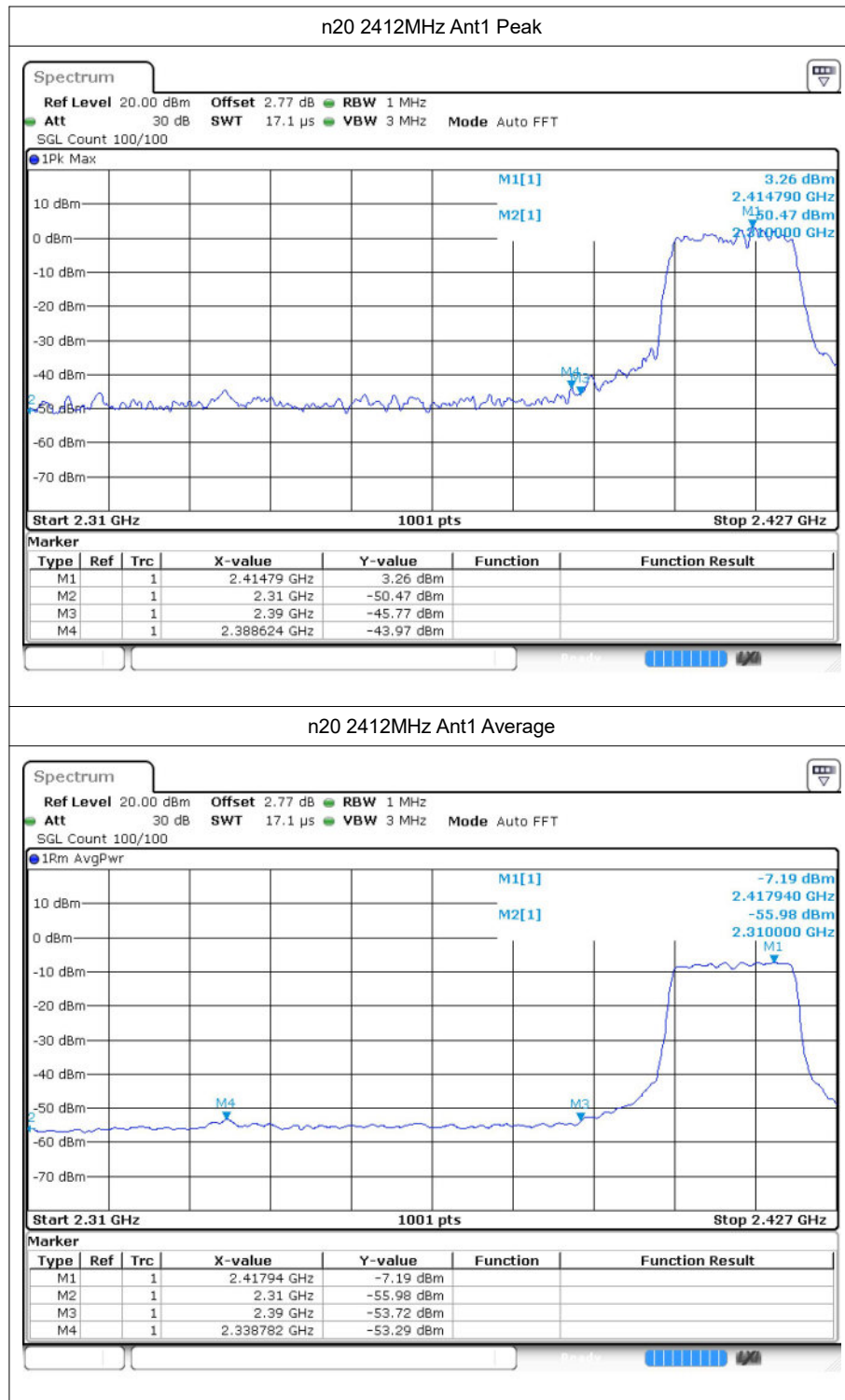
7.2 Test Graphs

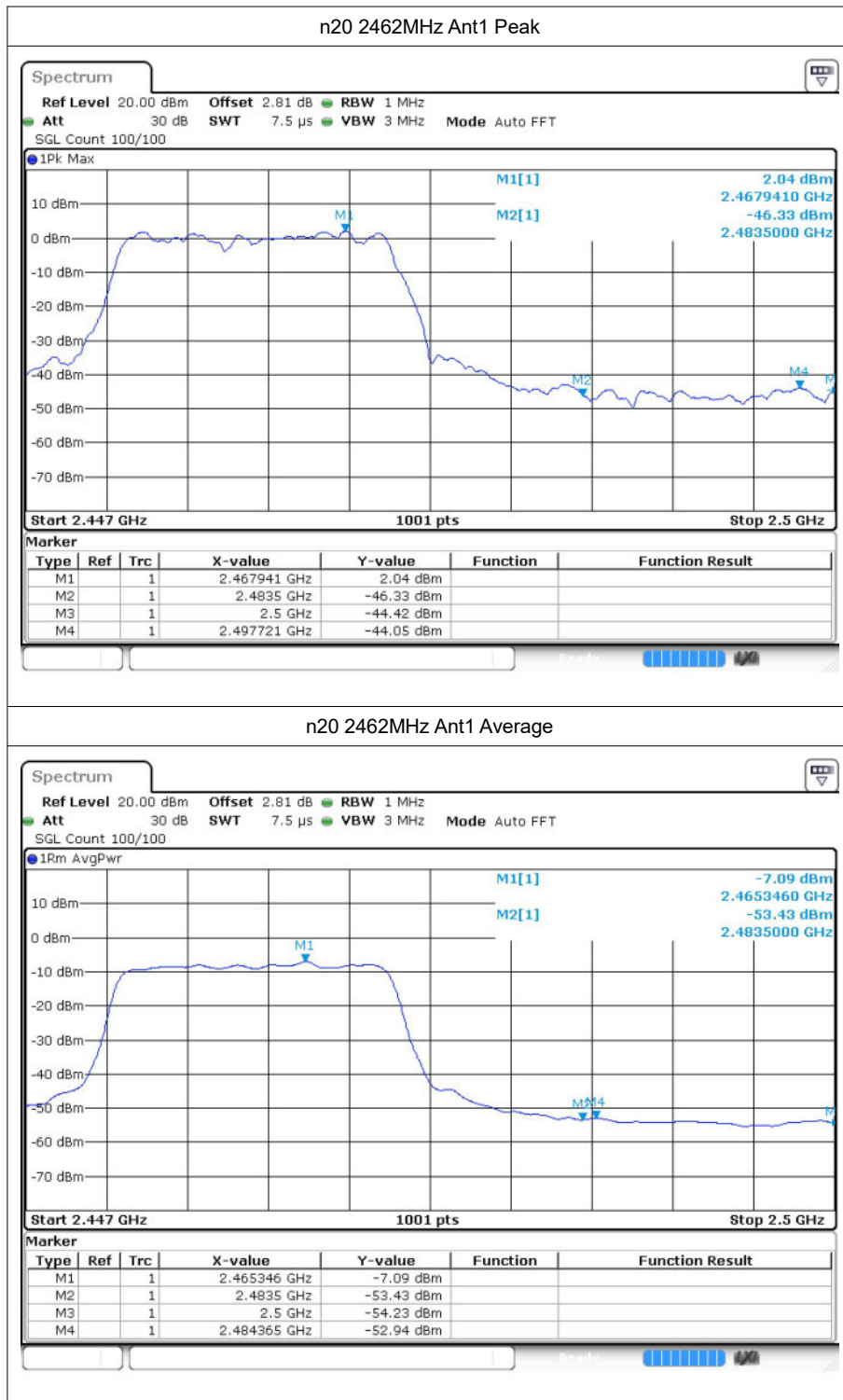












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