



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Trail Camera

Trade Mark: N/A

Test Model: HR13

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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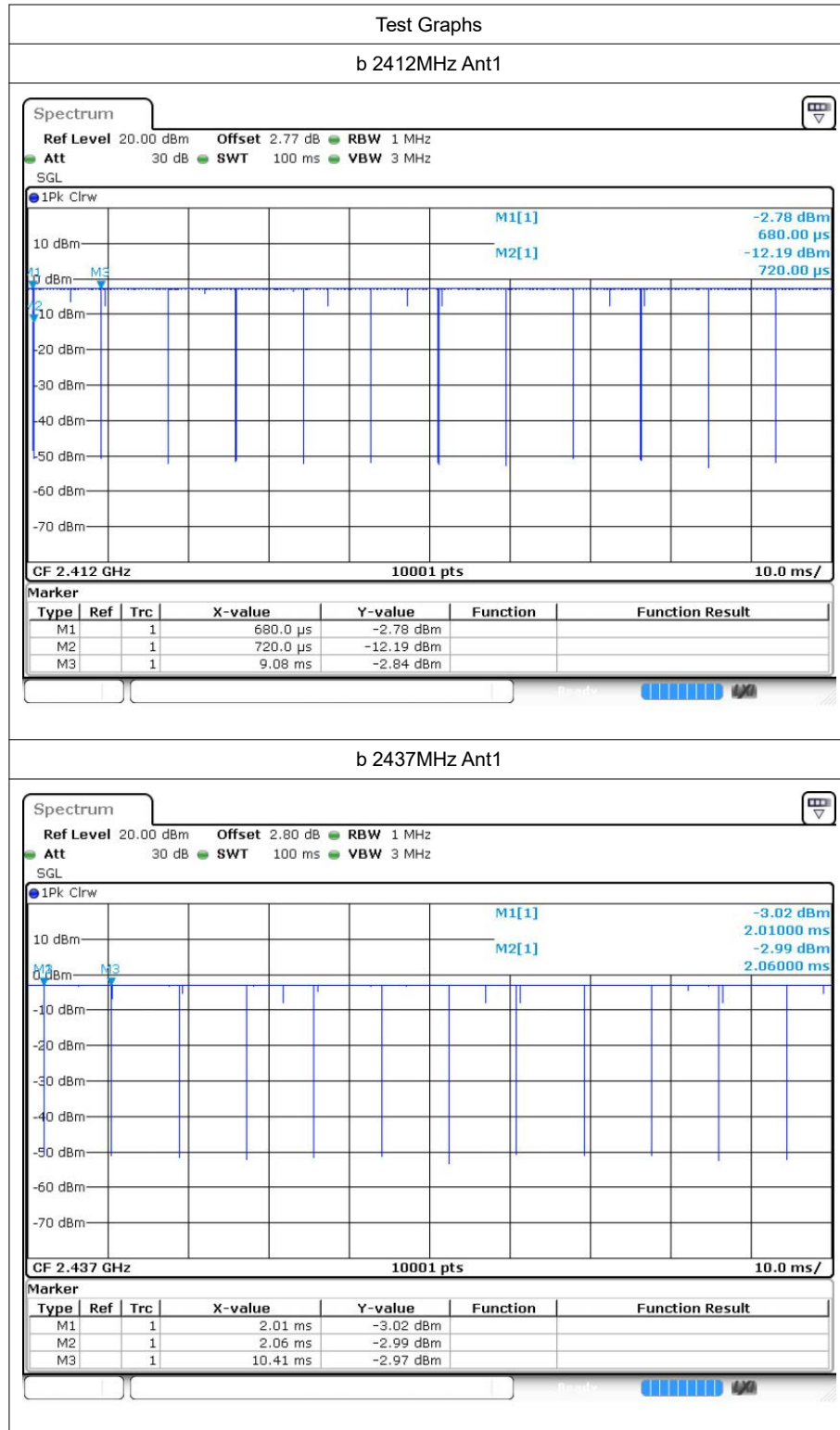


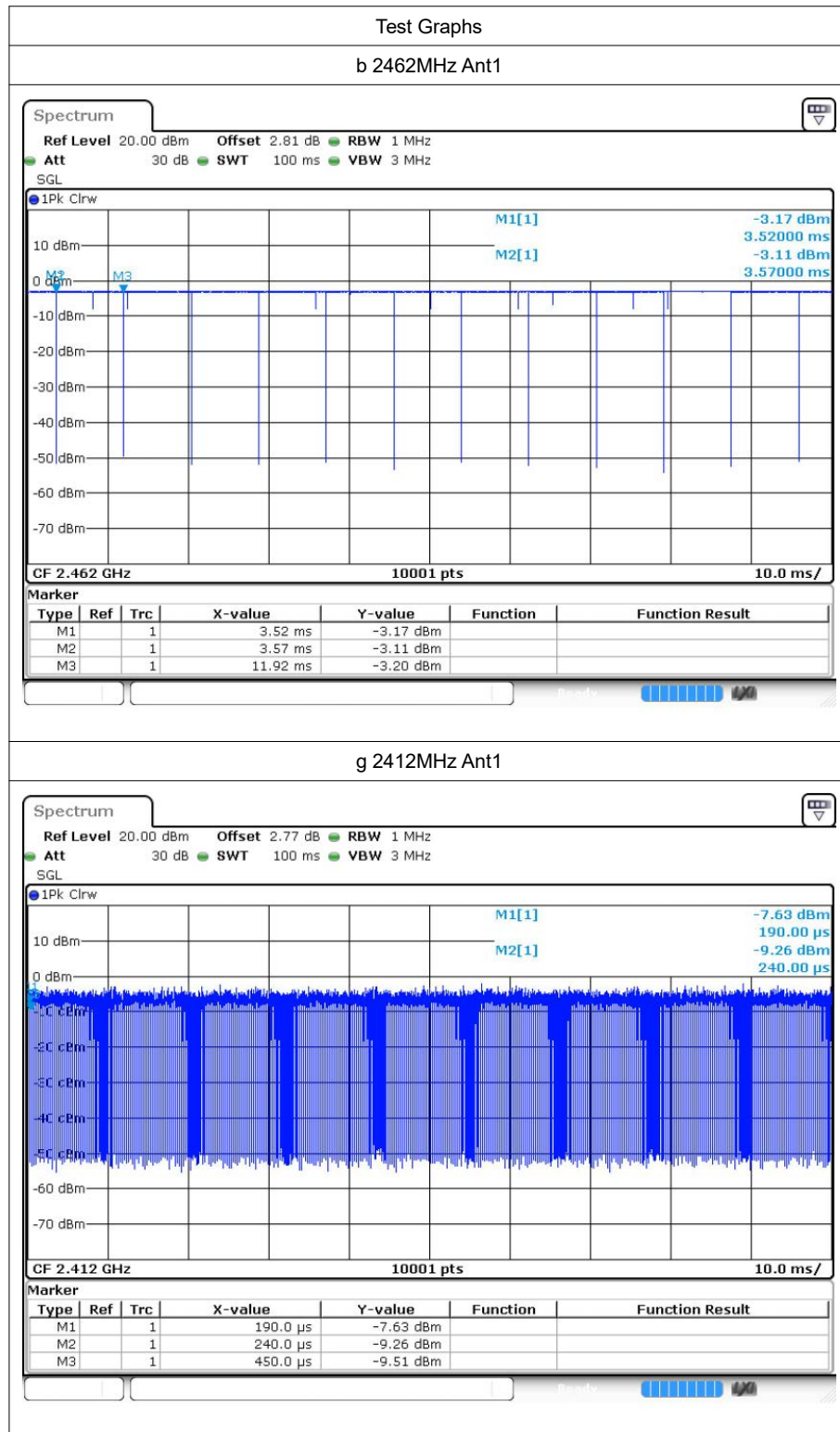
1 Duty Cycle

1.1 Test Result

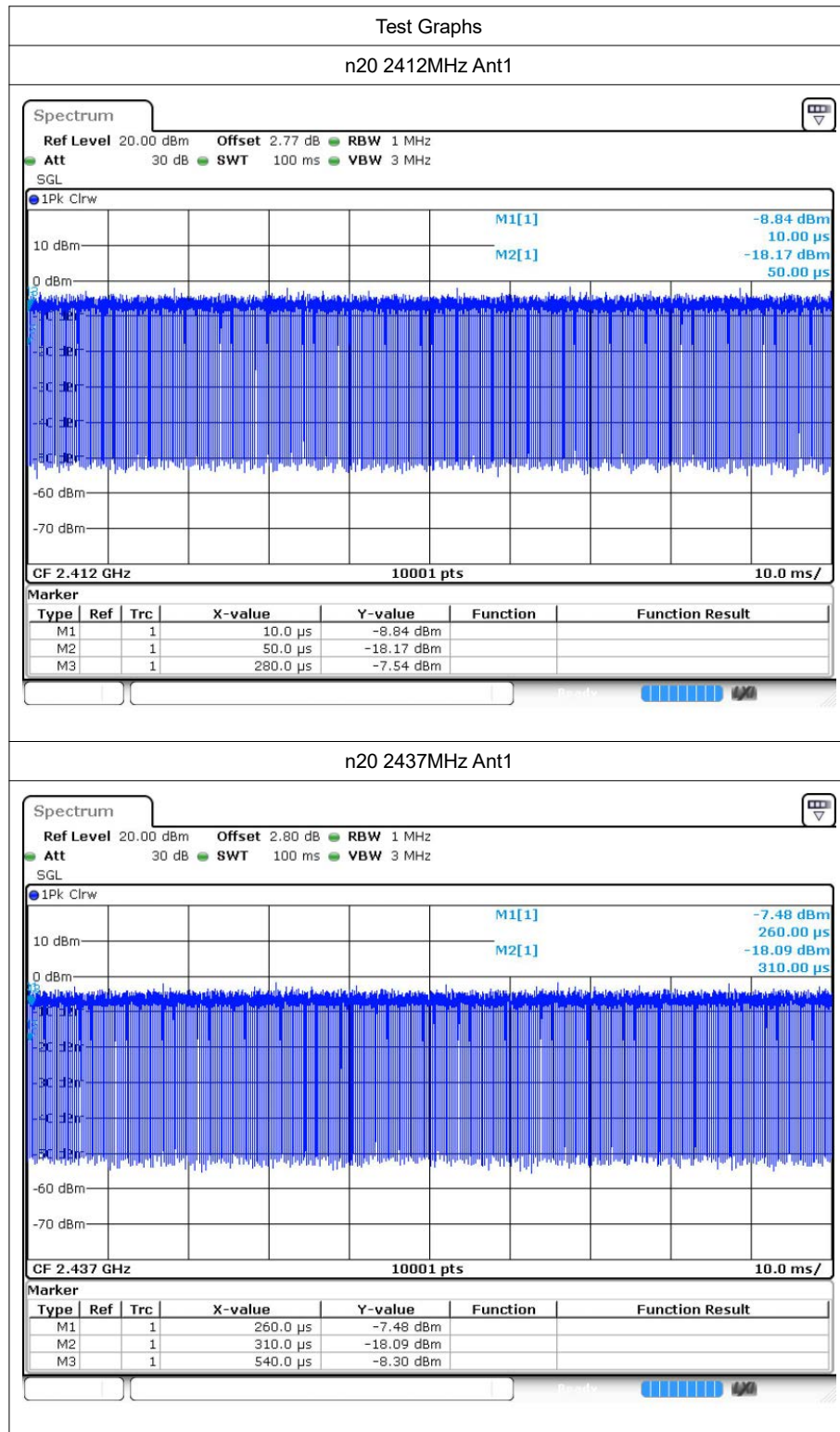
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor	1/T (kHz)
b	2412	Ant1	99.61	0.02	0.12
b	2437	Ant1	99.59	0.02	0.12
b	2462	Ant1	99.59	0.02	0.12
g	2412	Ant1	86.9	0.61	4.76
g	2437	Ant1	86.89	0.61	4.76
g	2462	Ant1	86.93	0.61	4.55
n20	2412	Ant1	87.48	0.58	4.35
n20	2437	Ant1	87.43	0.58	4.35
n20	2462	Ant1	87.5	0.58	4.35

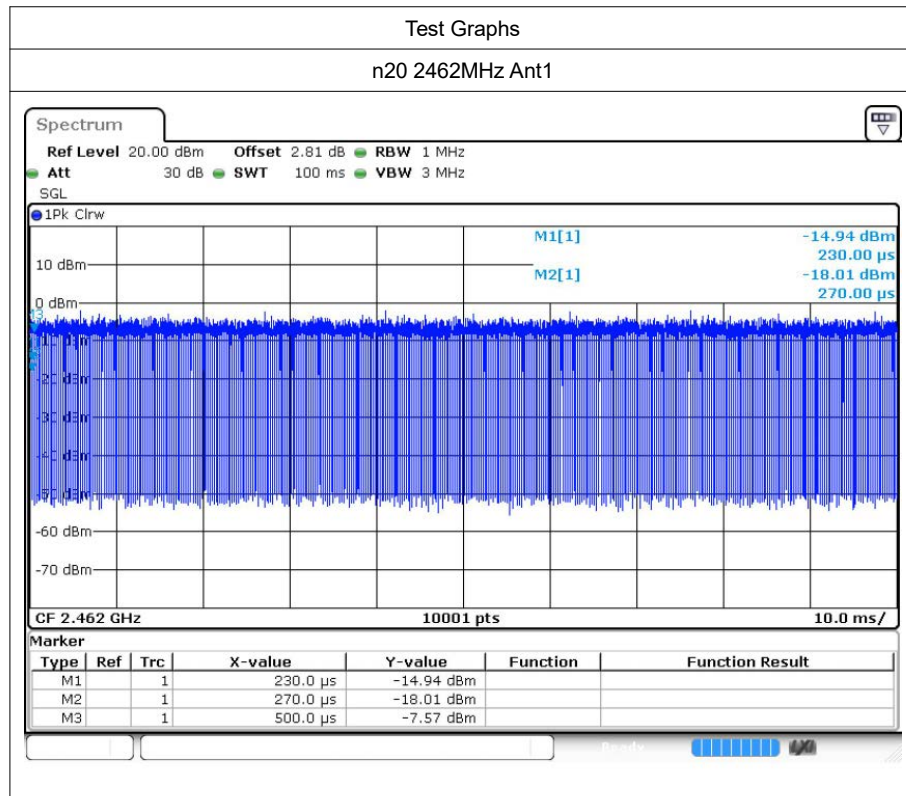
1.2 Test Graphs











2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant1	7.55	30	Pass
b	2437	Ant1	7.39	30	Pass
b	2462	Ant1	7.46	30	Pass
g	2412	Ant1	7	30	Pass
g	2437	Ant1	6.76	30	Pass
g	2462	Ant1	6.98	30	Pass
n20	2412	Ant1	6.89	30	Pass
n20	2437	Ant1	6.94	30	Pass
n20	2462	Ant1	6.79	30	Pass

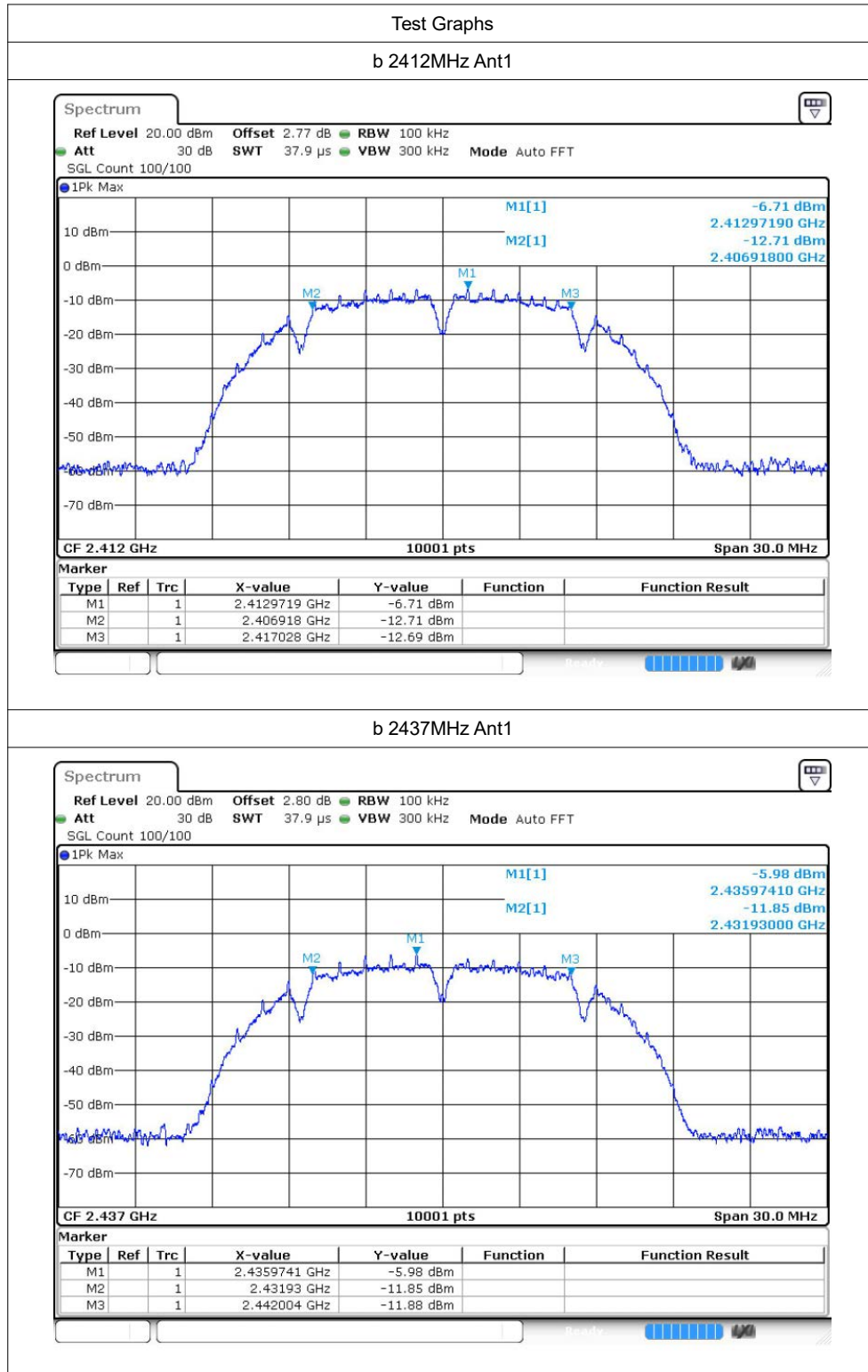


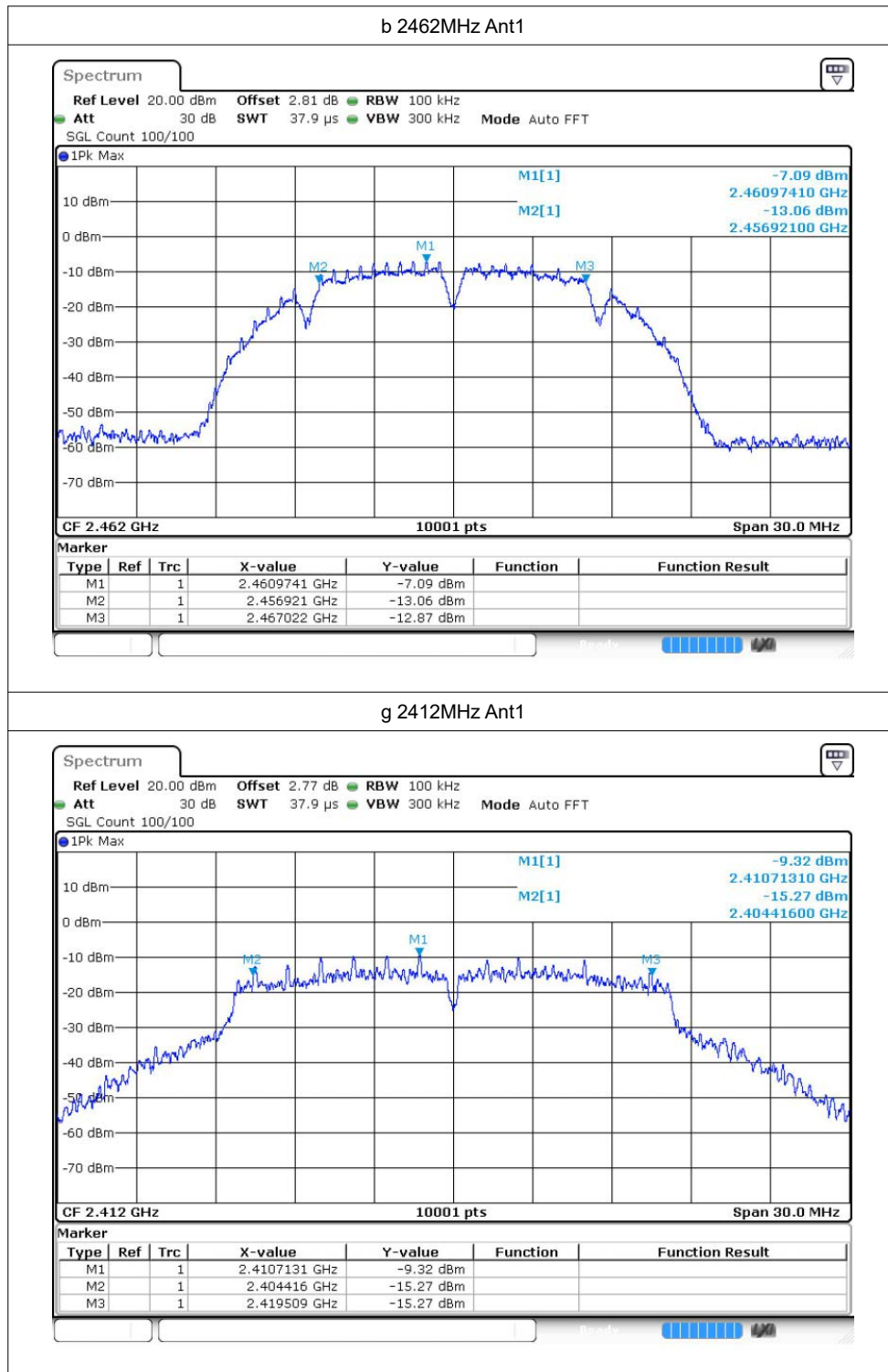
3 -6dB Bandwidth

3.1 Test Result

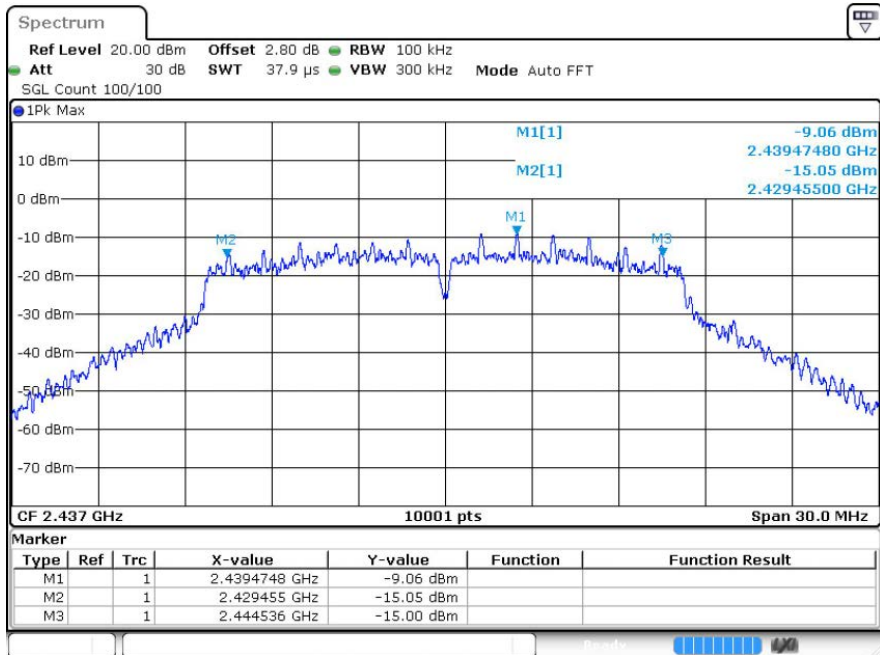
Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	10.11	0.5	Pass
b	2437	Ant1	10.074	0.5	Pass
b	2462	Ant1	10.101	0.5	Pass
g	2412	Ant1	15.093	0.5	Pass
g	2437	Ant1	15.081	0.5	Pass
g	2462	Ant1	15.105	0.5	Pass
n20	2412	Ant1	13.845	0.5	Pass
n20	2437	Ant1	15.12	0.5	Pass
n20	2462	Ant1	15.123	0.5	Pass

3.2 Test Graphs

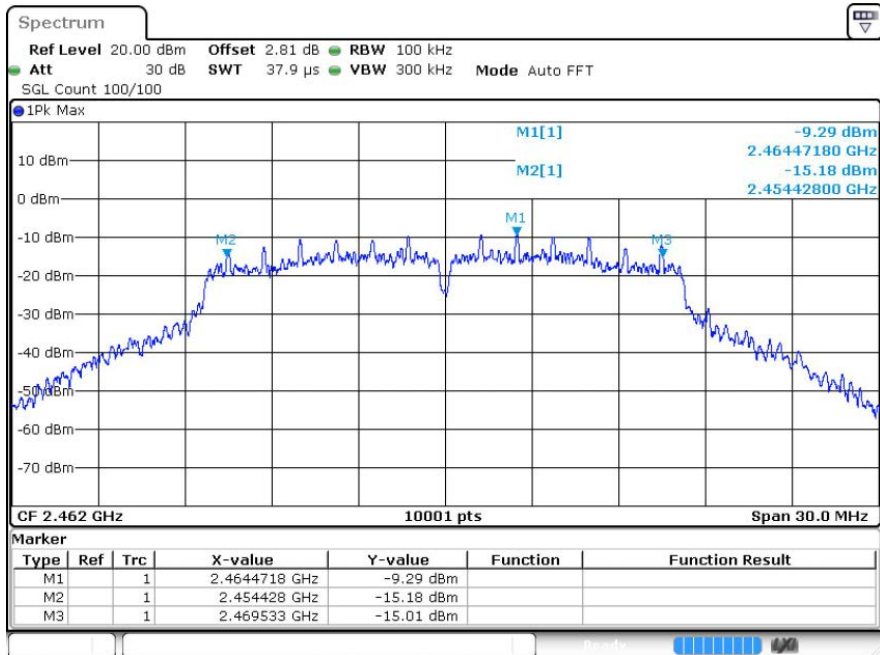


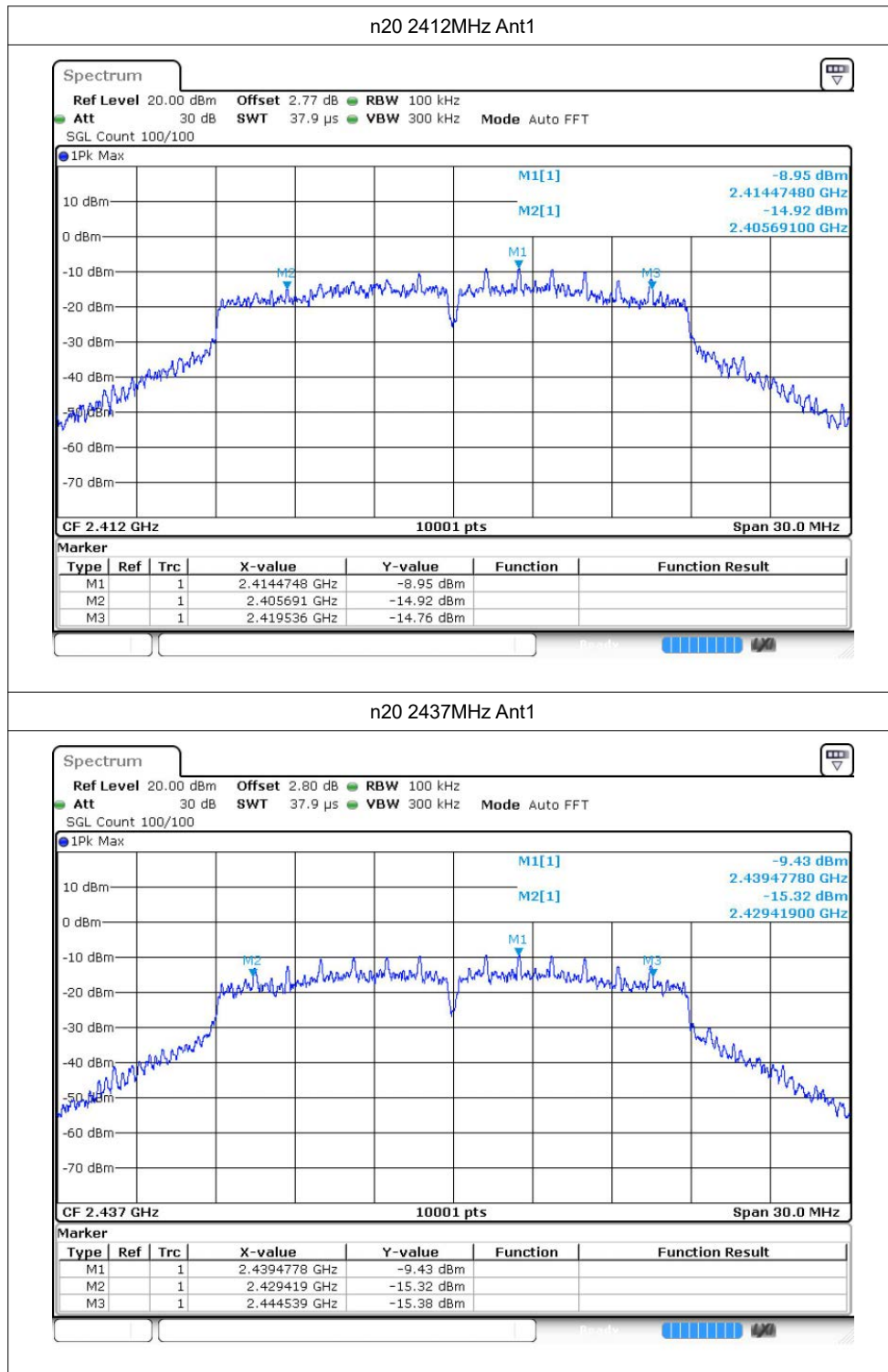


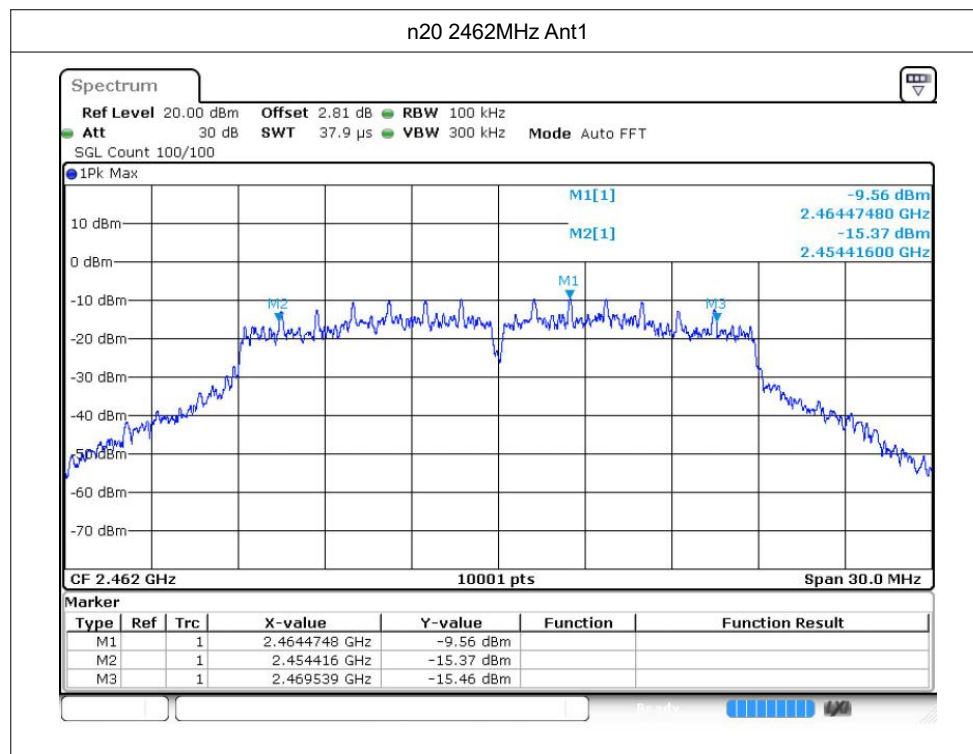
g 2437MHz Ant1



g 2462MHz Ant1





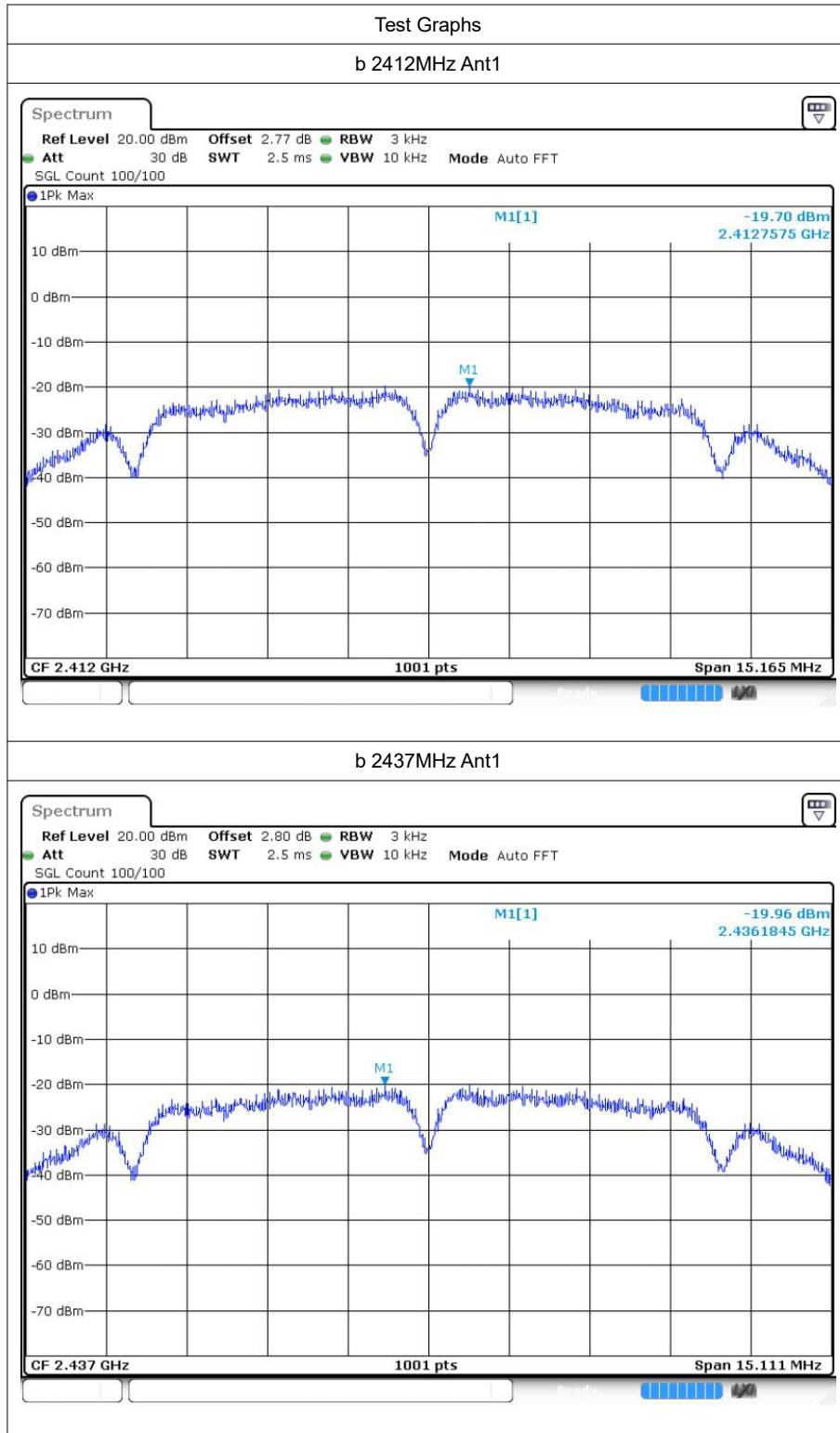


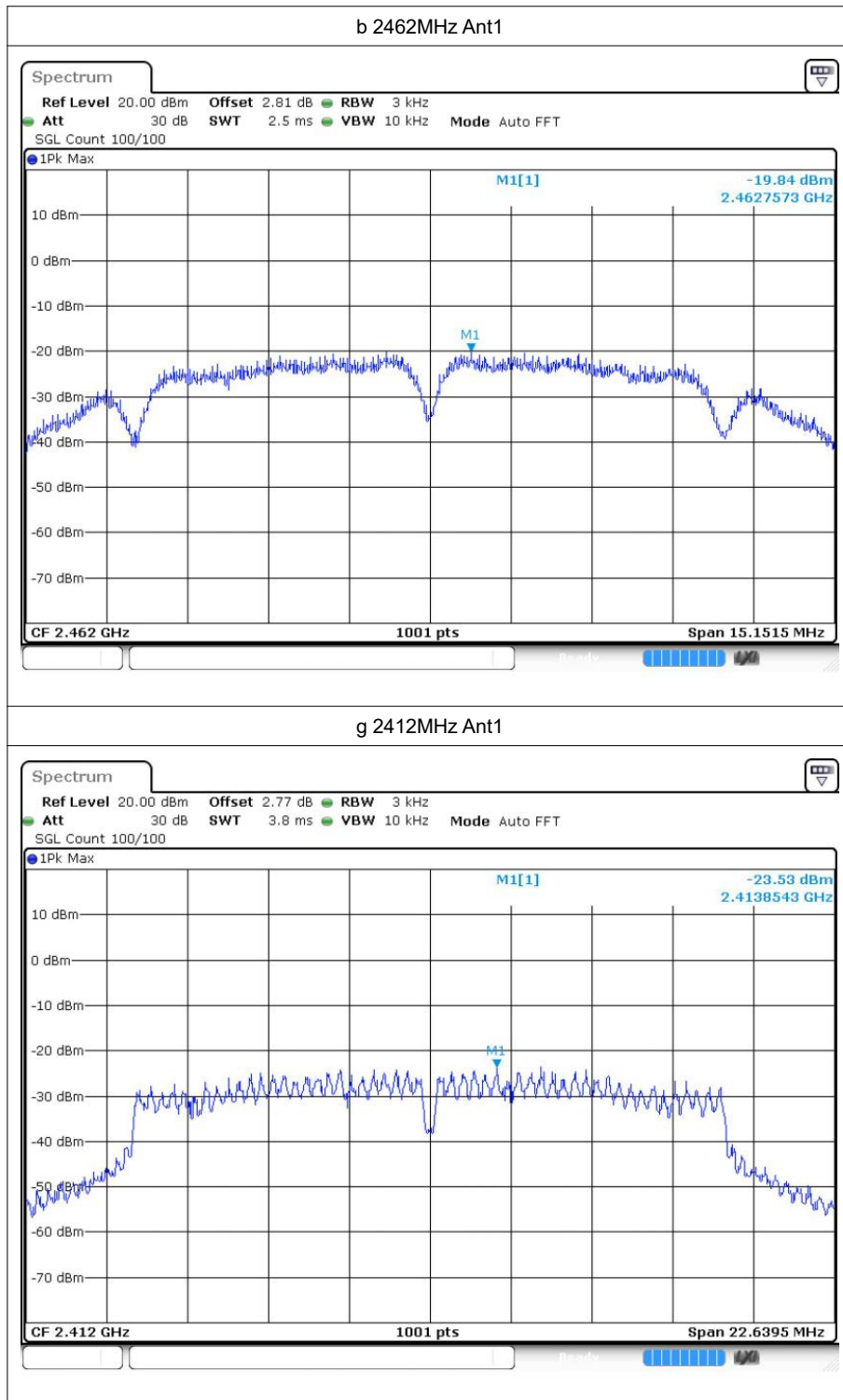
4 Maximum Power Spectral Density Level

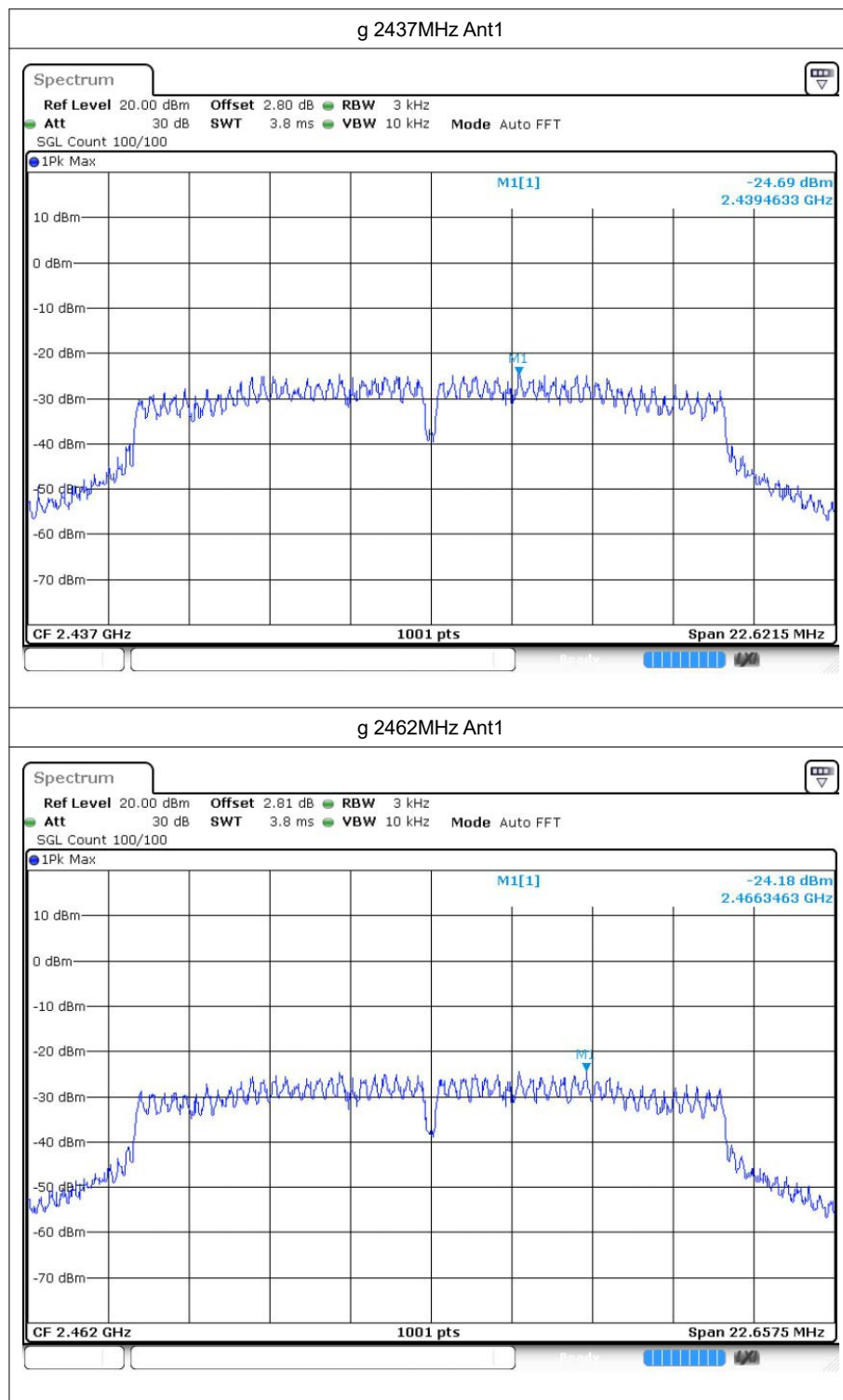
4.1 Test Result

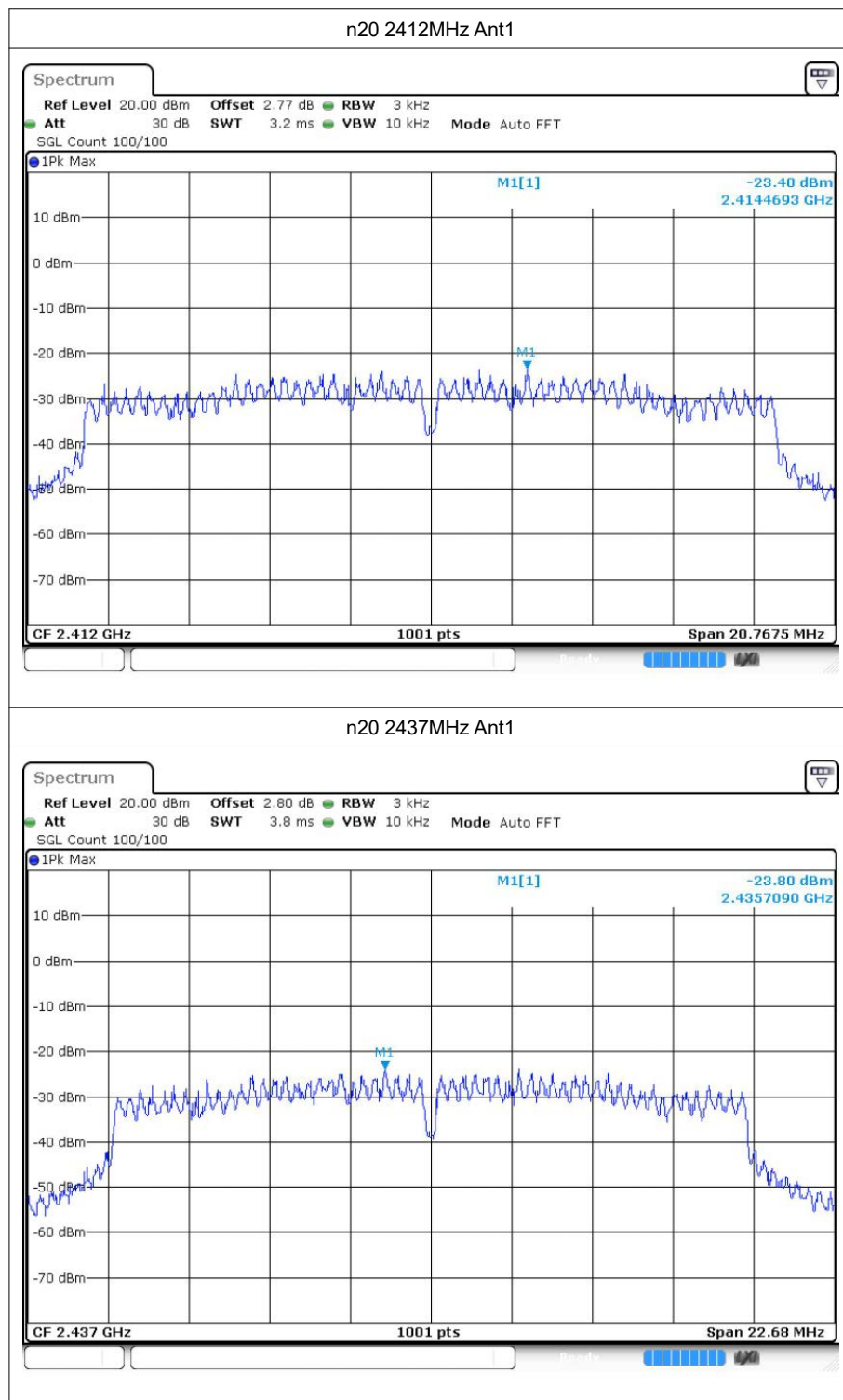
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
b	2412	Ant1	-19.7	≤ 8	Pass
b	2437	Ant1	-19.96	≤ 8	Pass
b	2462	Ant1	-19.84	≤ 8	Pass
g	2412	Ant1	-23.53	≤ 8	Pass
g	2437	Ant1	-24.69	≤ 8	Pass
g	2462	Ant1	-24.18	≤ 8	Pass
n20	2412	Ant1	-23.4	≤ 8	Pass
n20	2437	Ant1	-23.8	≤ 8	Pass
n20	2462	Ant1	-23.25	≤ 8	Pass

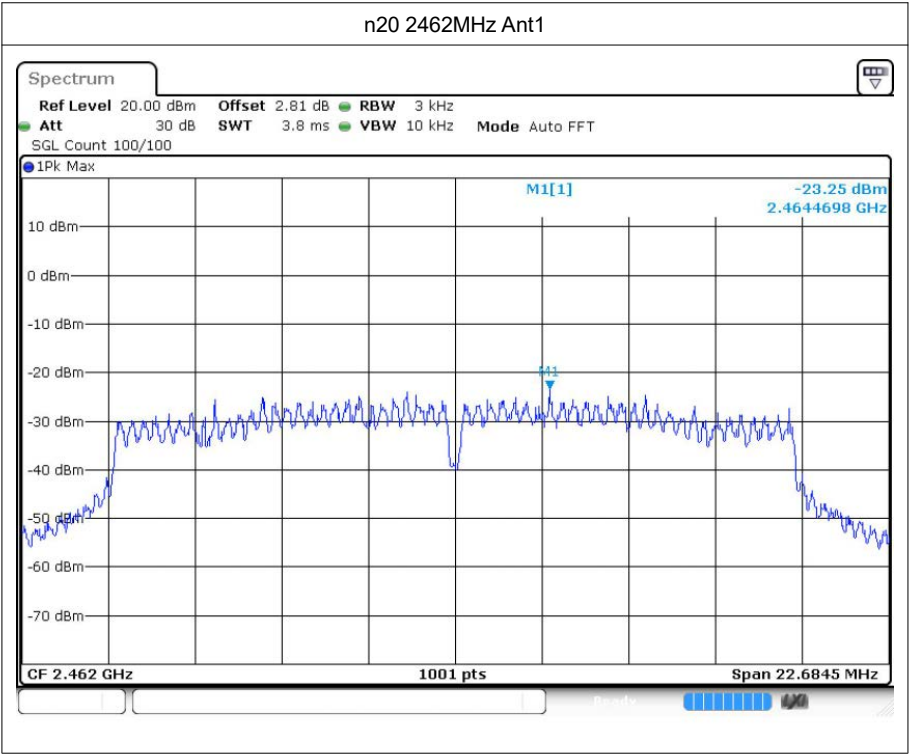
4.2 Test Graphs











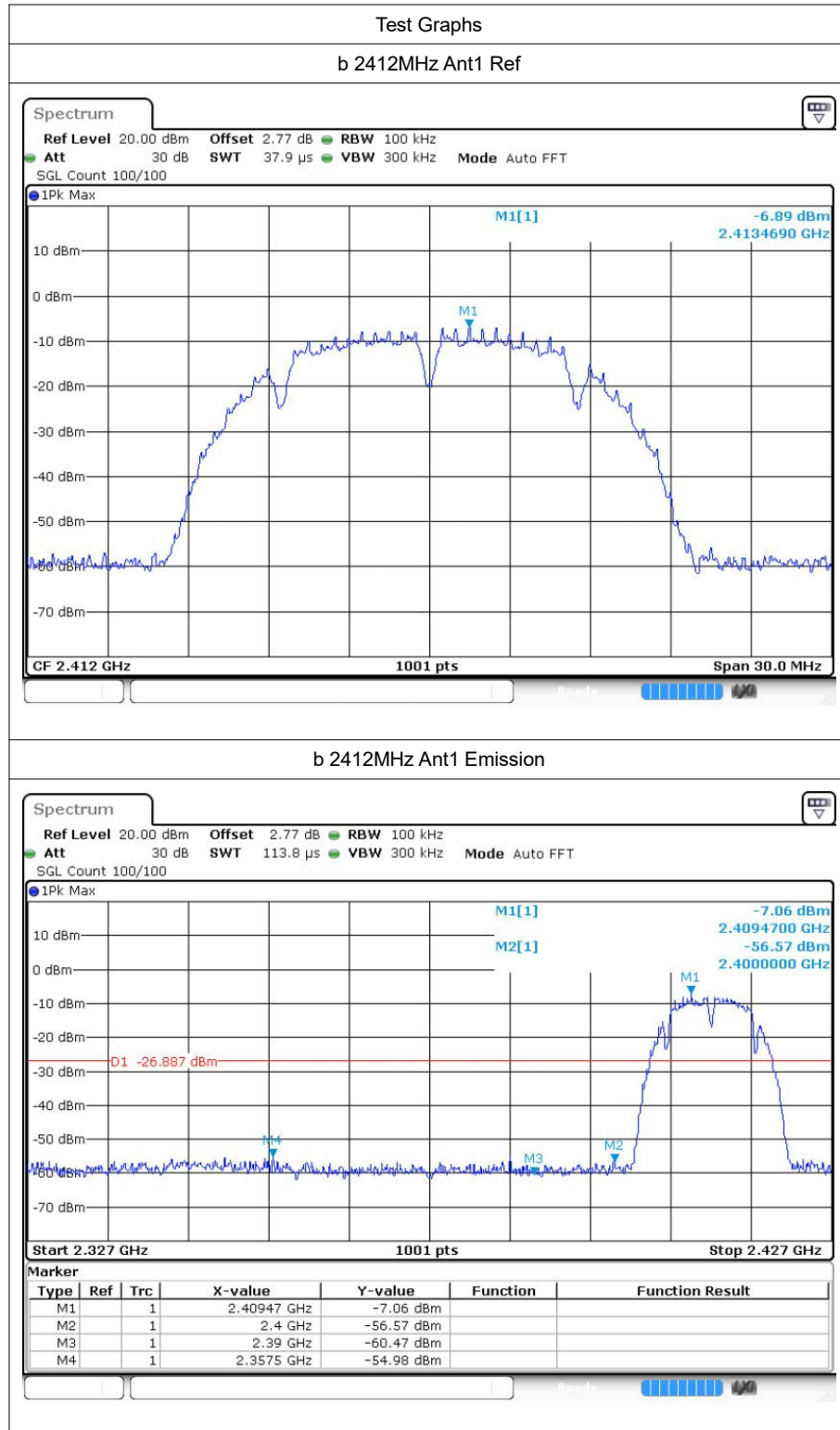


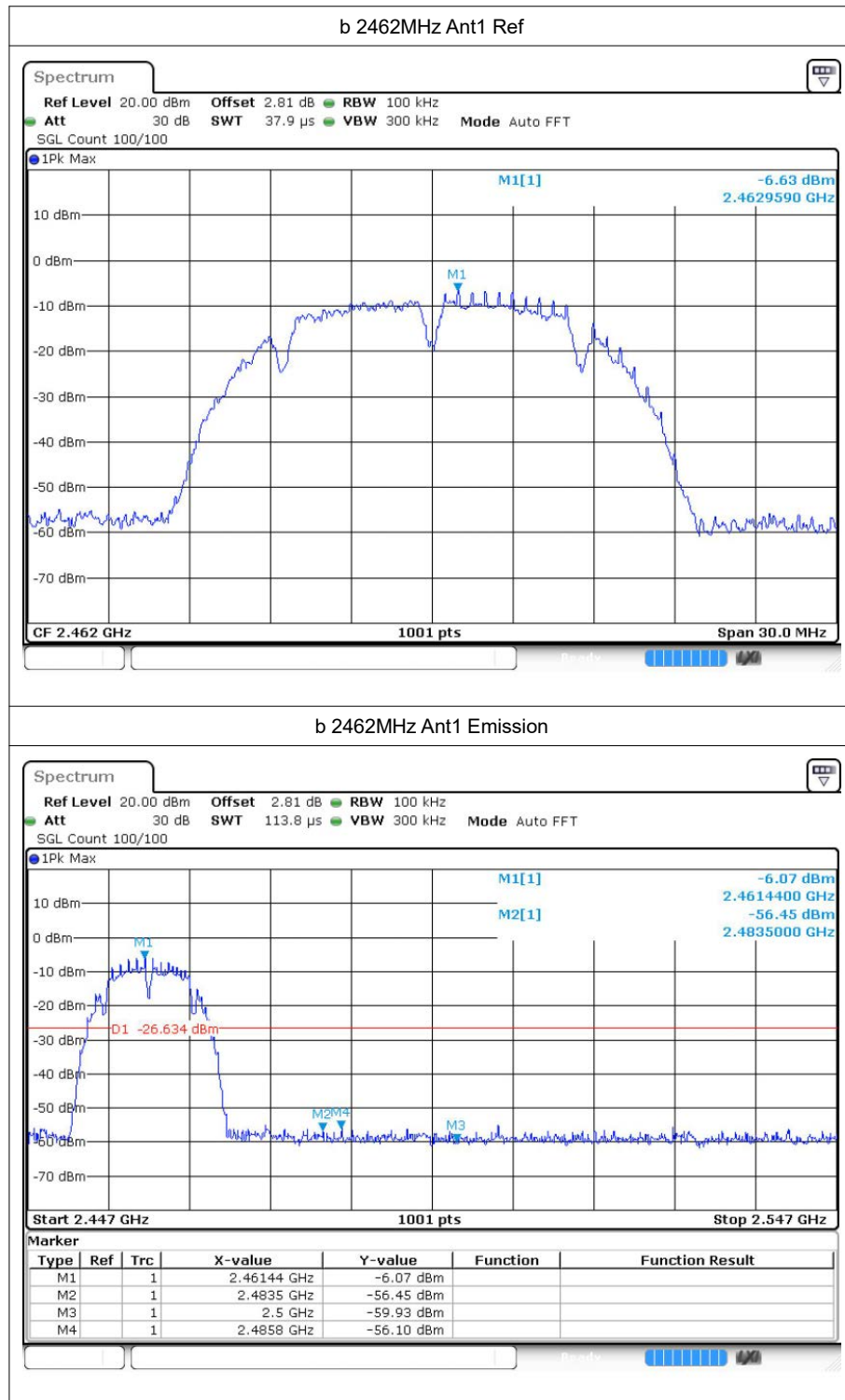
5 Band Edge

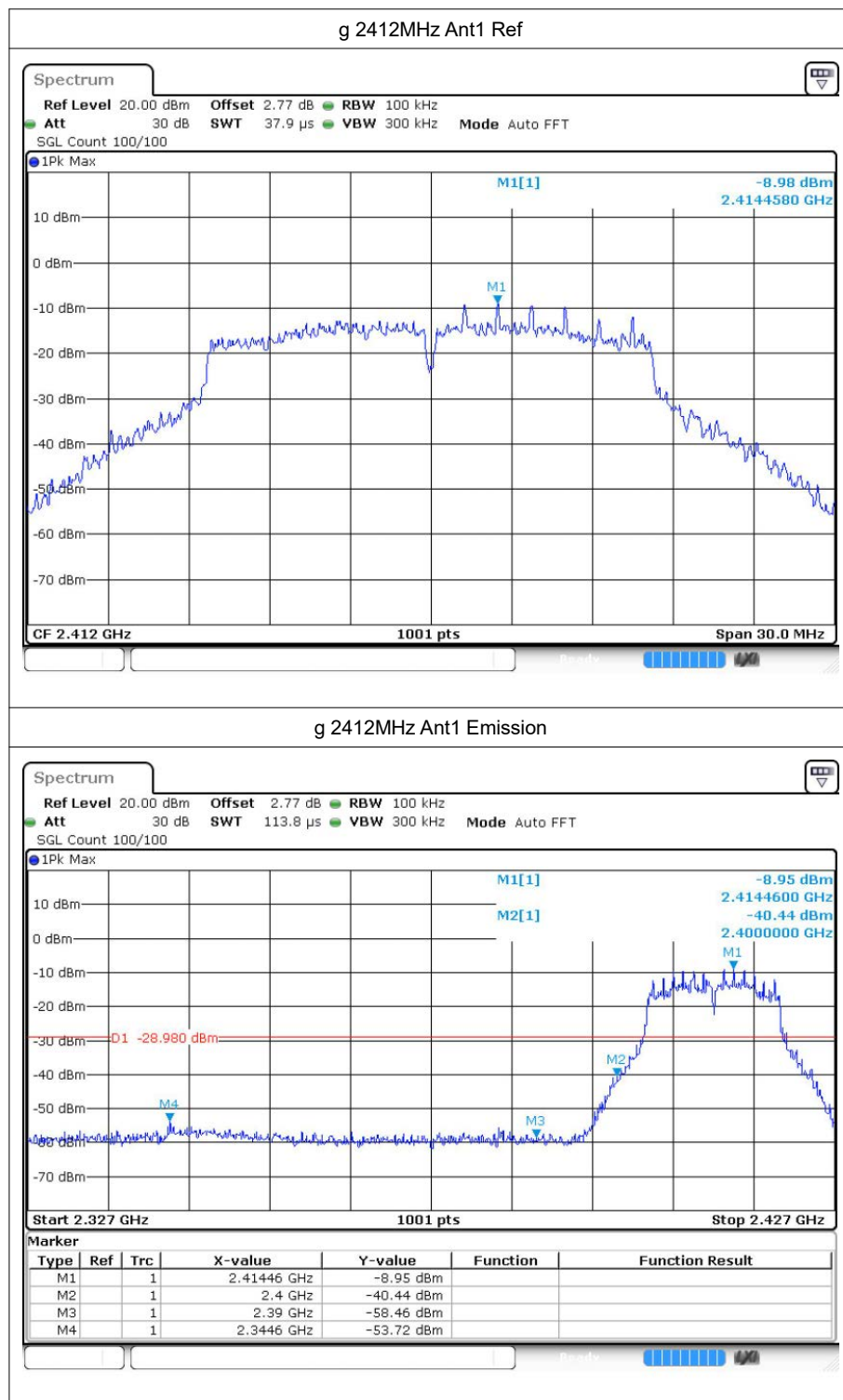
5.1 Test Result

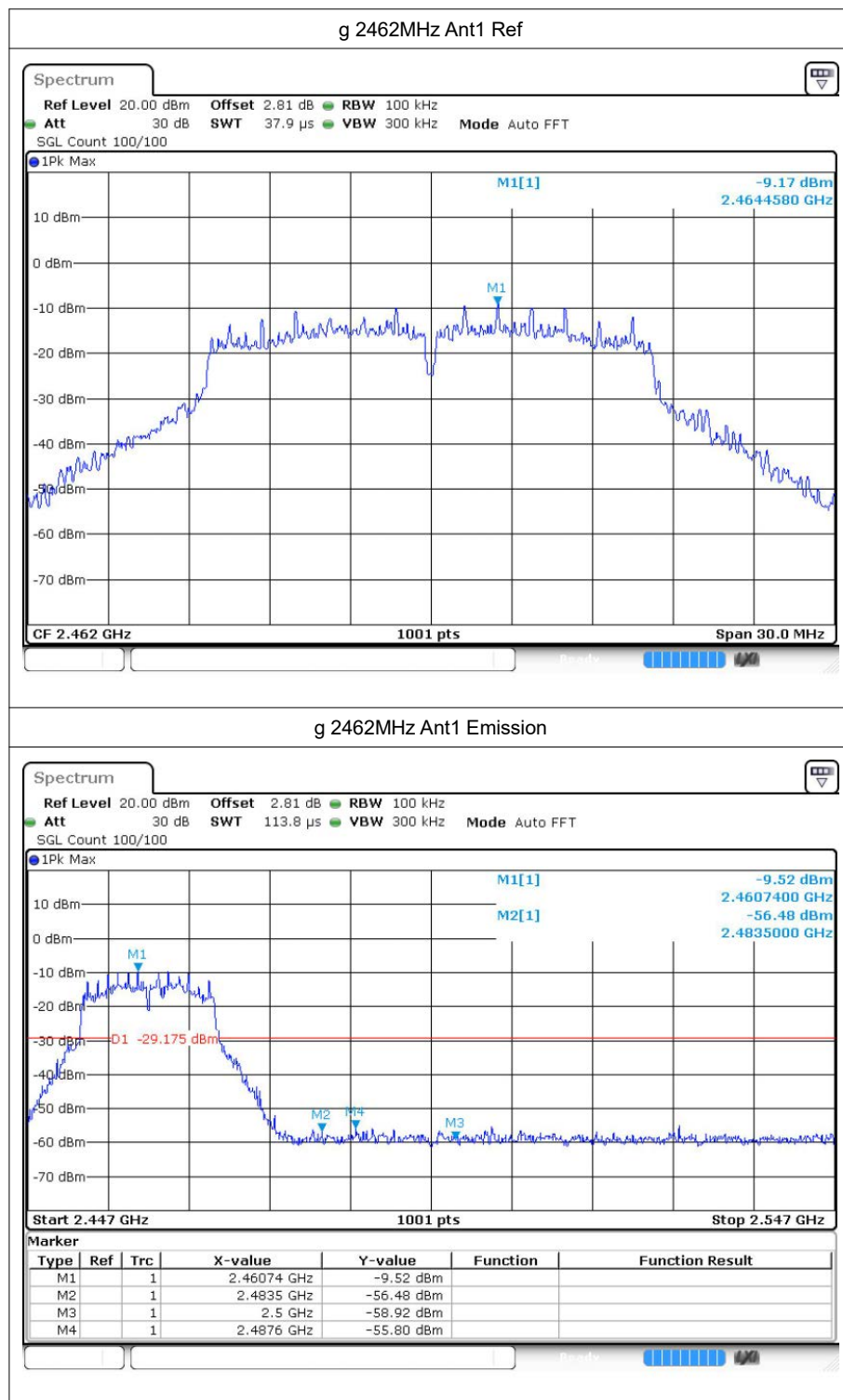
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-48.09	-20	Pass
b	2462	Ant1	-49.46	-20	Pass
g	2412	Ant1	-44.73	-20	Pass
g	2462	Ant1	-46.63	-20	Pass
n20	2412	Ant1	-45.51	-20	Pass
n20	2462	Ant1	-46.54	-20	Pass

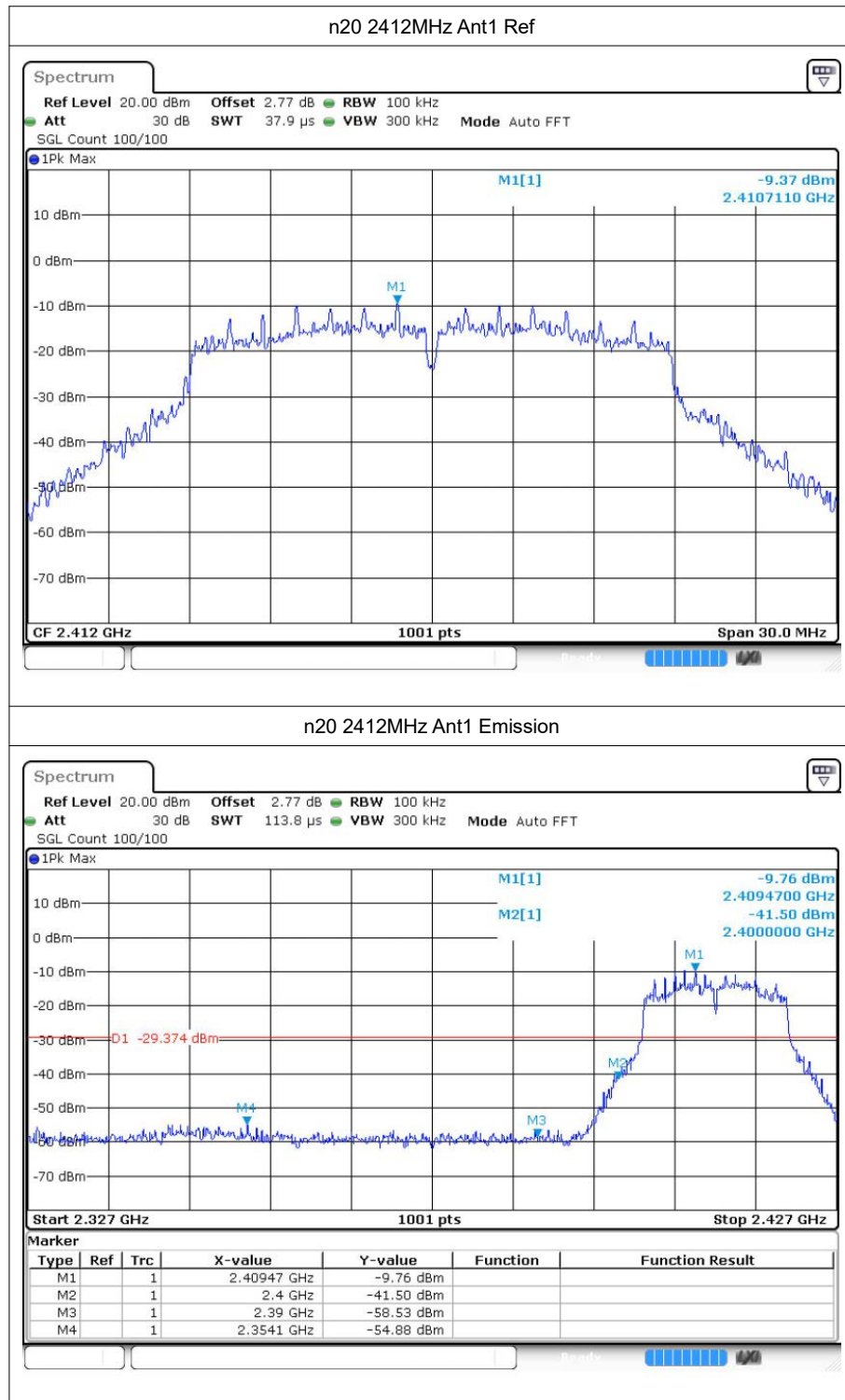
5.2 Test Graphs

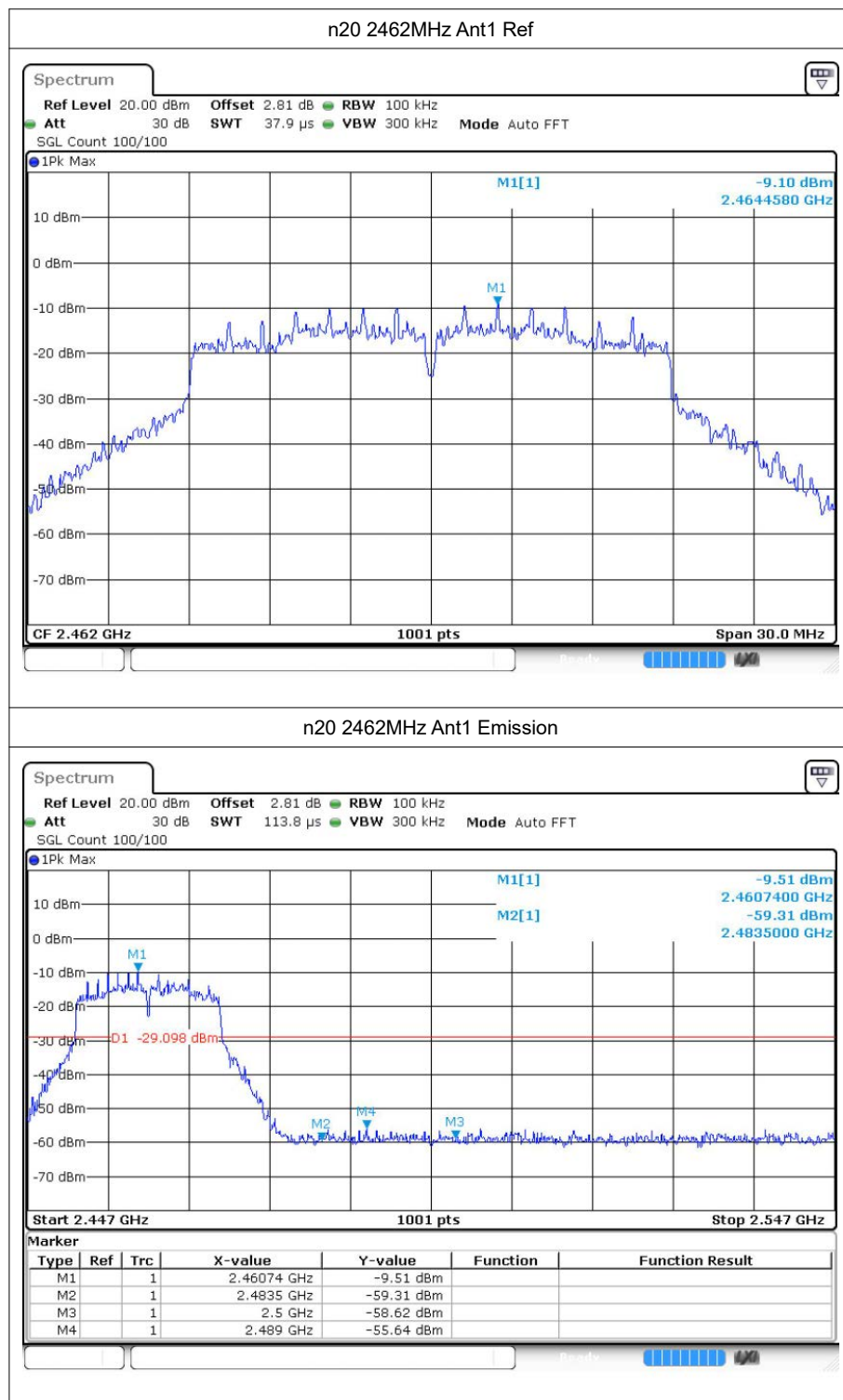










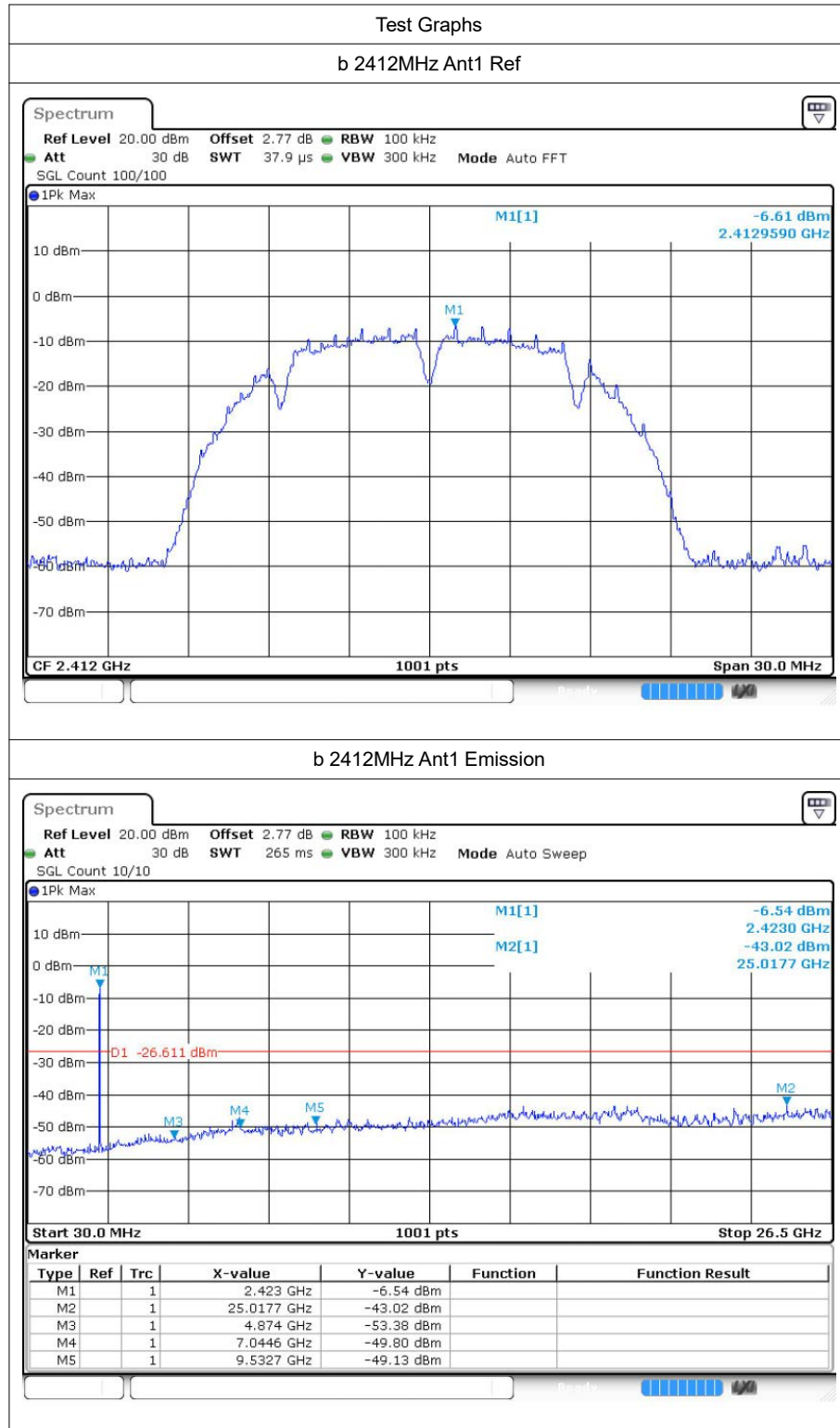


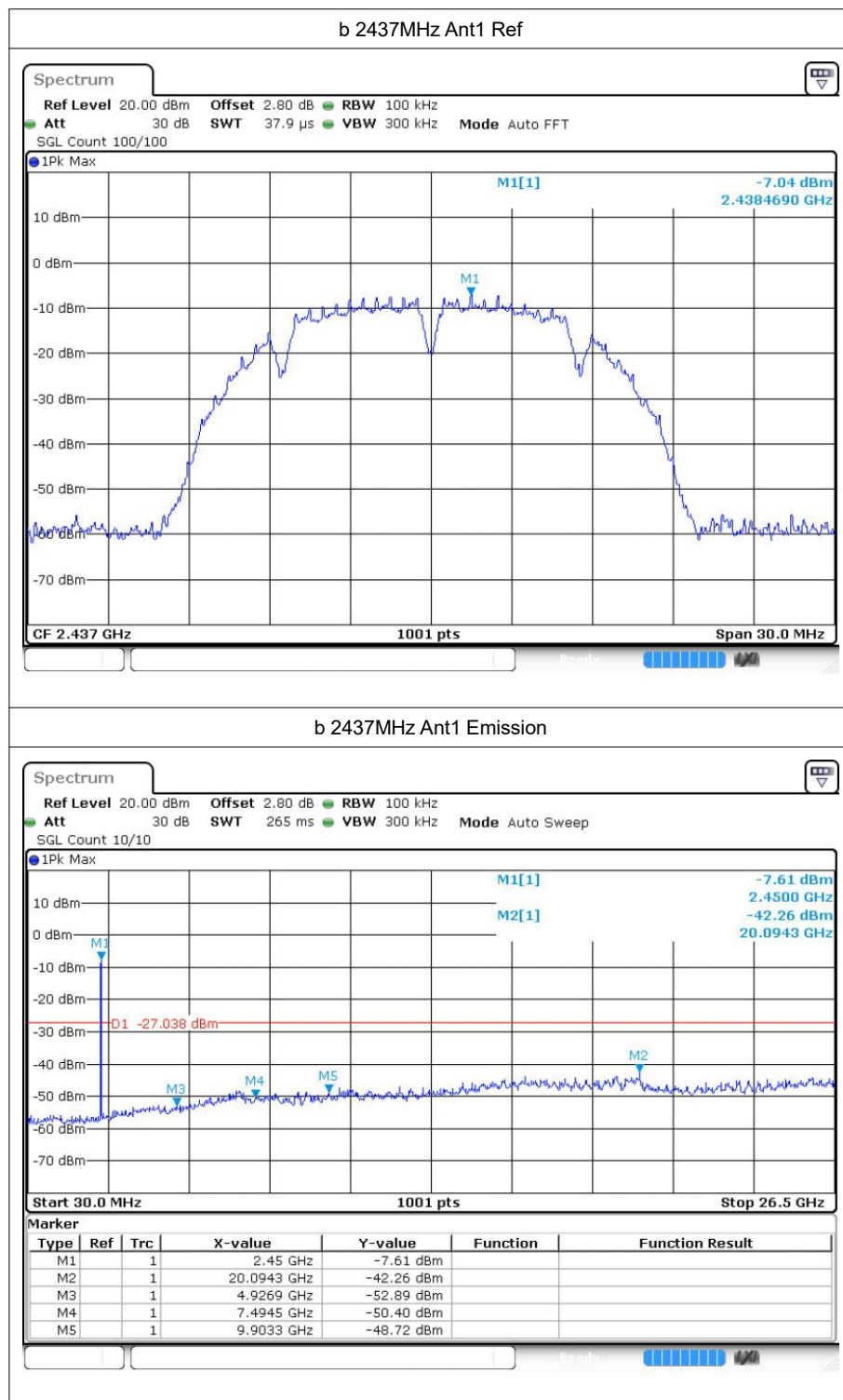
6 Conducted RF Spurious Emission

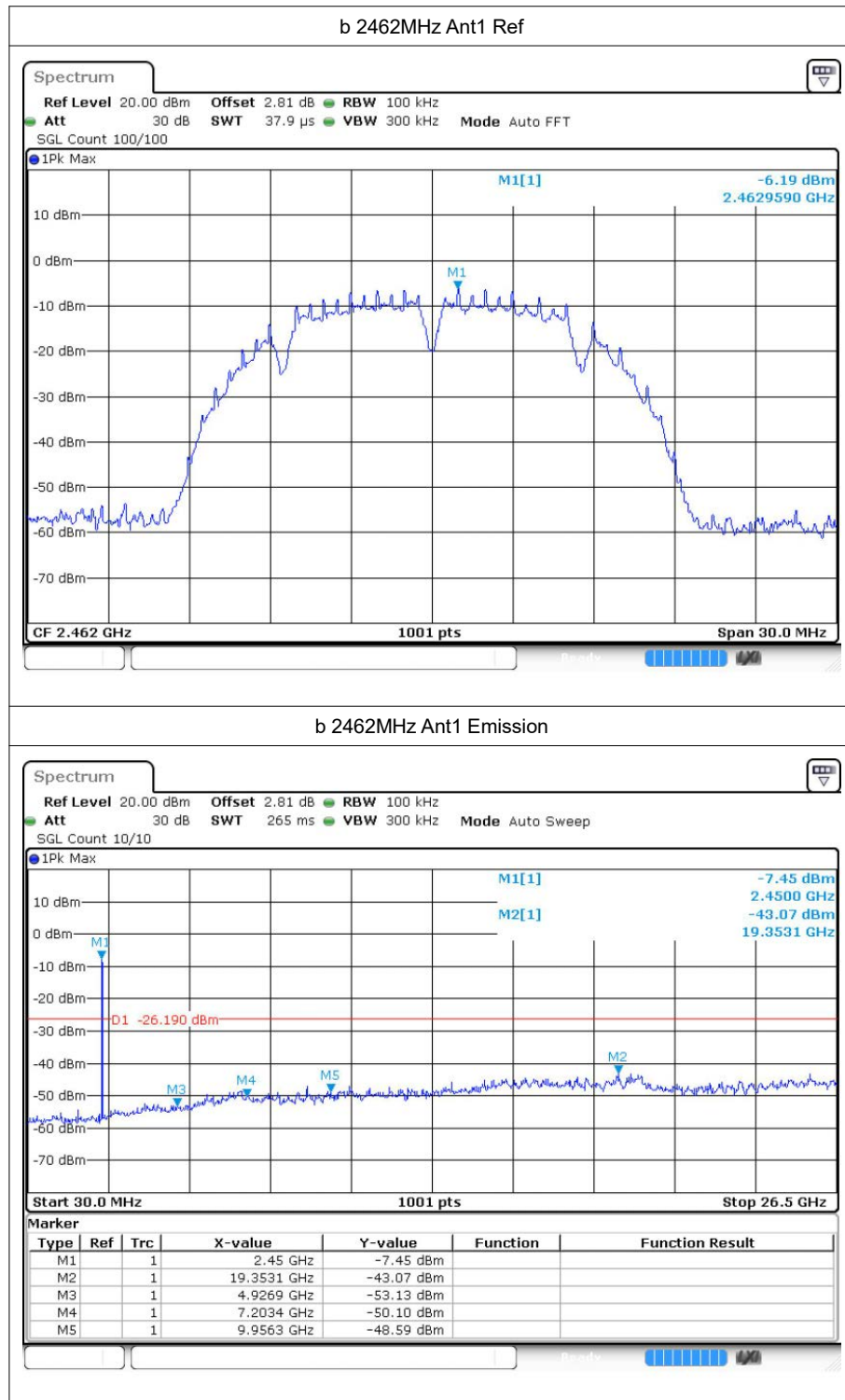
6.1 Test Result

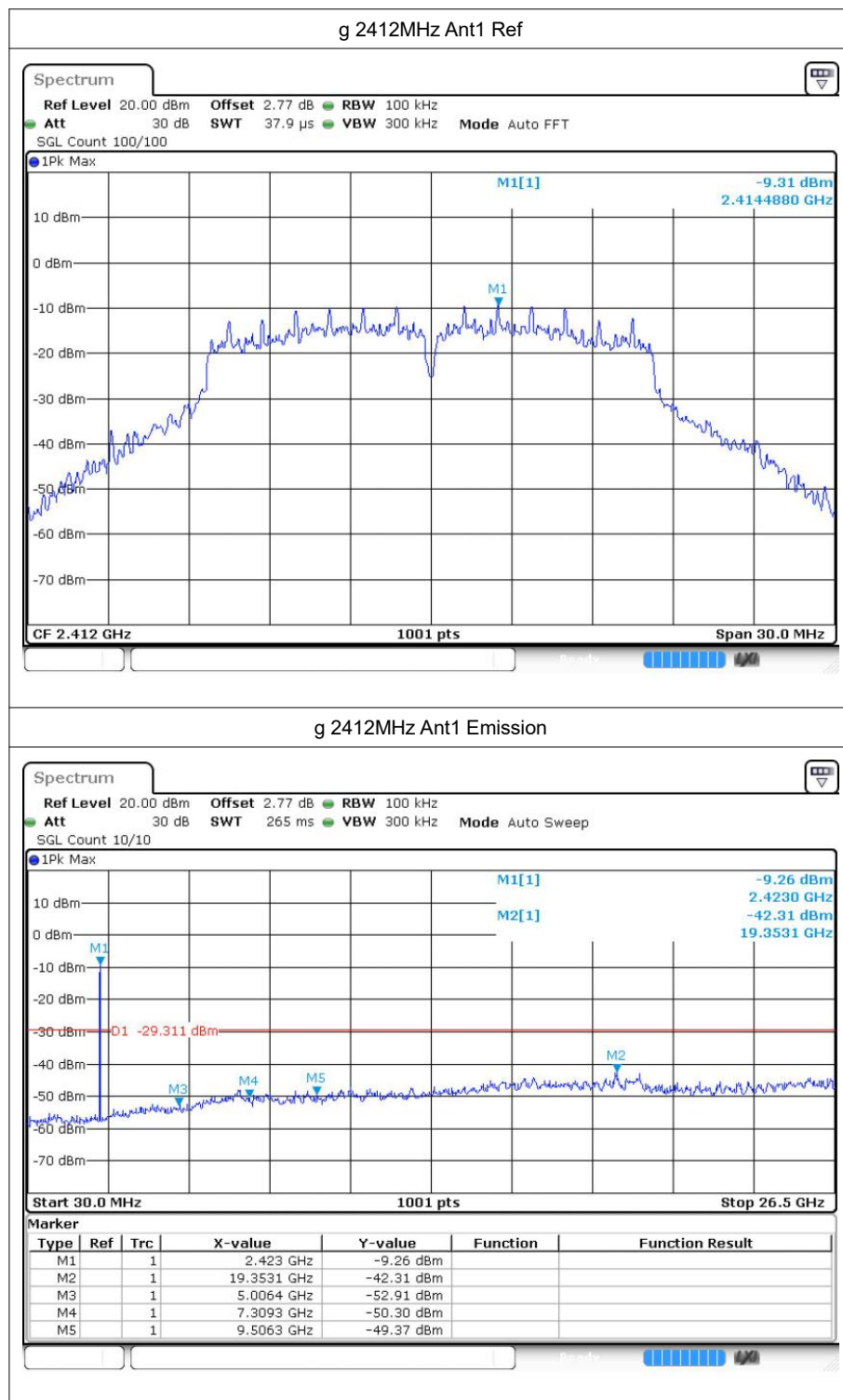
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-36.41	-20	Pass
b	2437	Ant1	-35.22	-20	Pass
b	2462	Ant1	-36.87	-20	Pass
g	2412	Ant1	-32.99	-20	Pass
g	2437	Ant1	-34.18	-20	Pass
g	2462	Ant1	-33.94	-20	Pass
n20	2412	Ant1	-34.27	-20	Pass
n20	2437	Ant1	-34.32	-20	Pass
n20	2462	Ant1	-33.85	-20	Pass

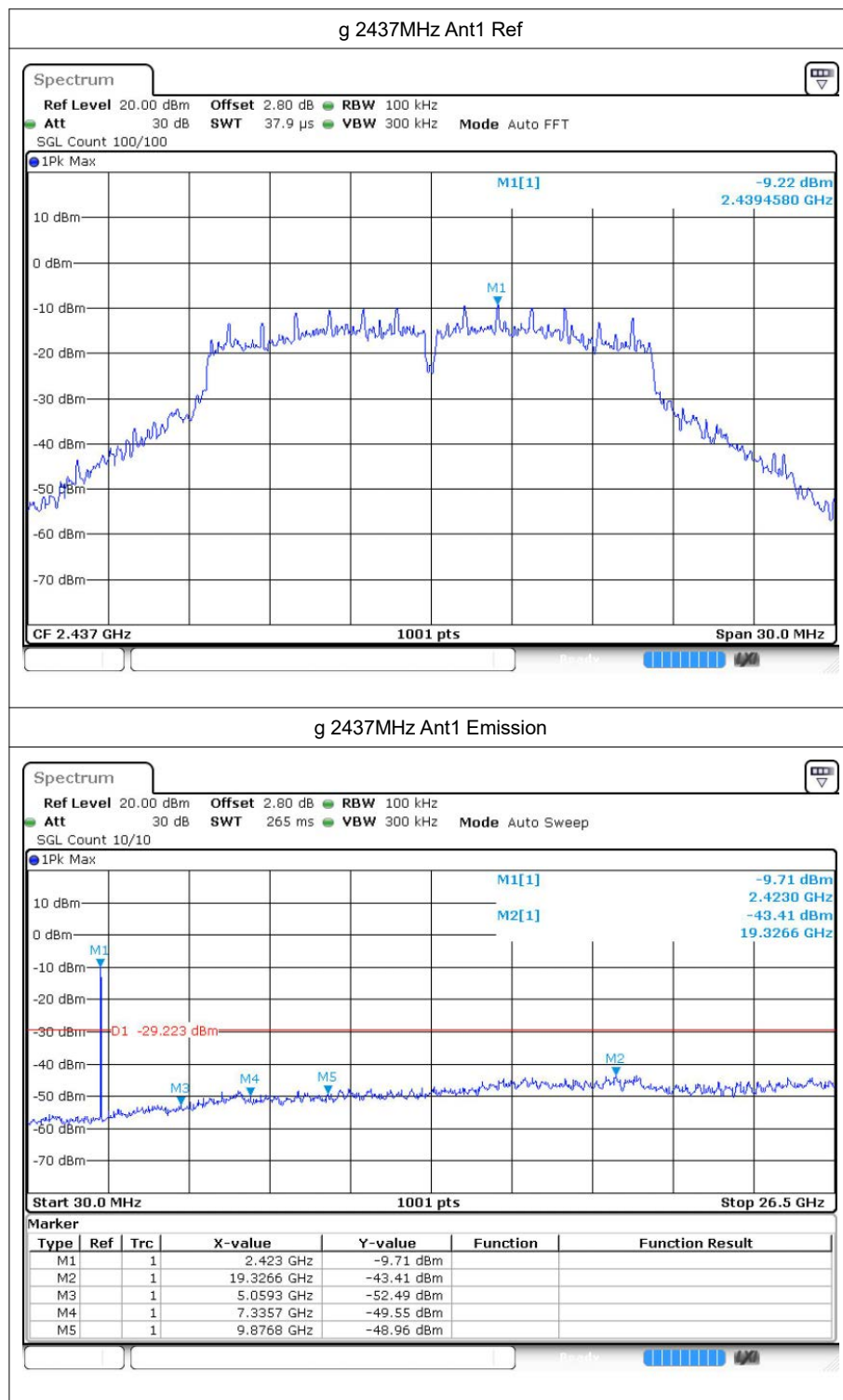
6.2 Test Graphs

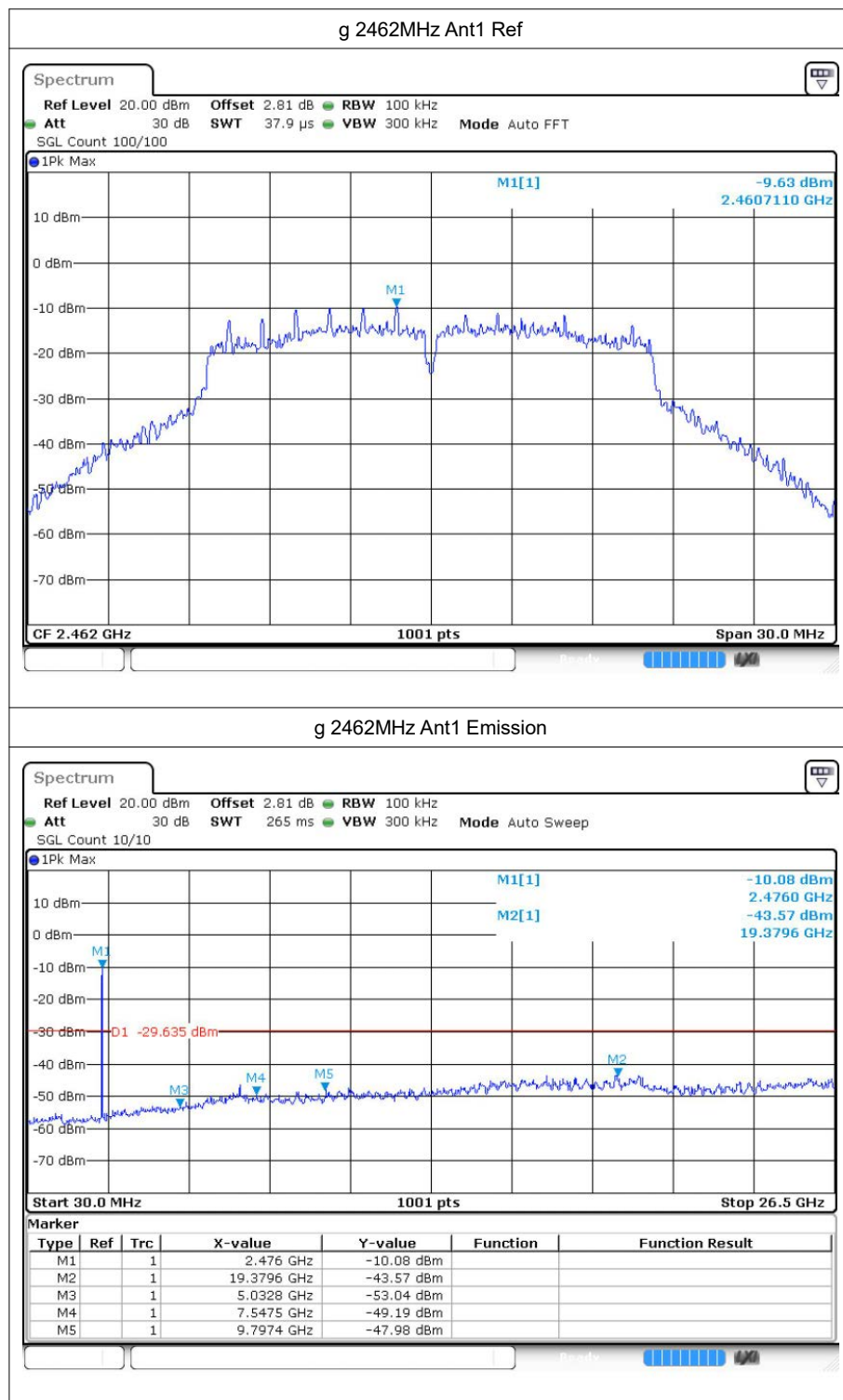


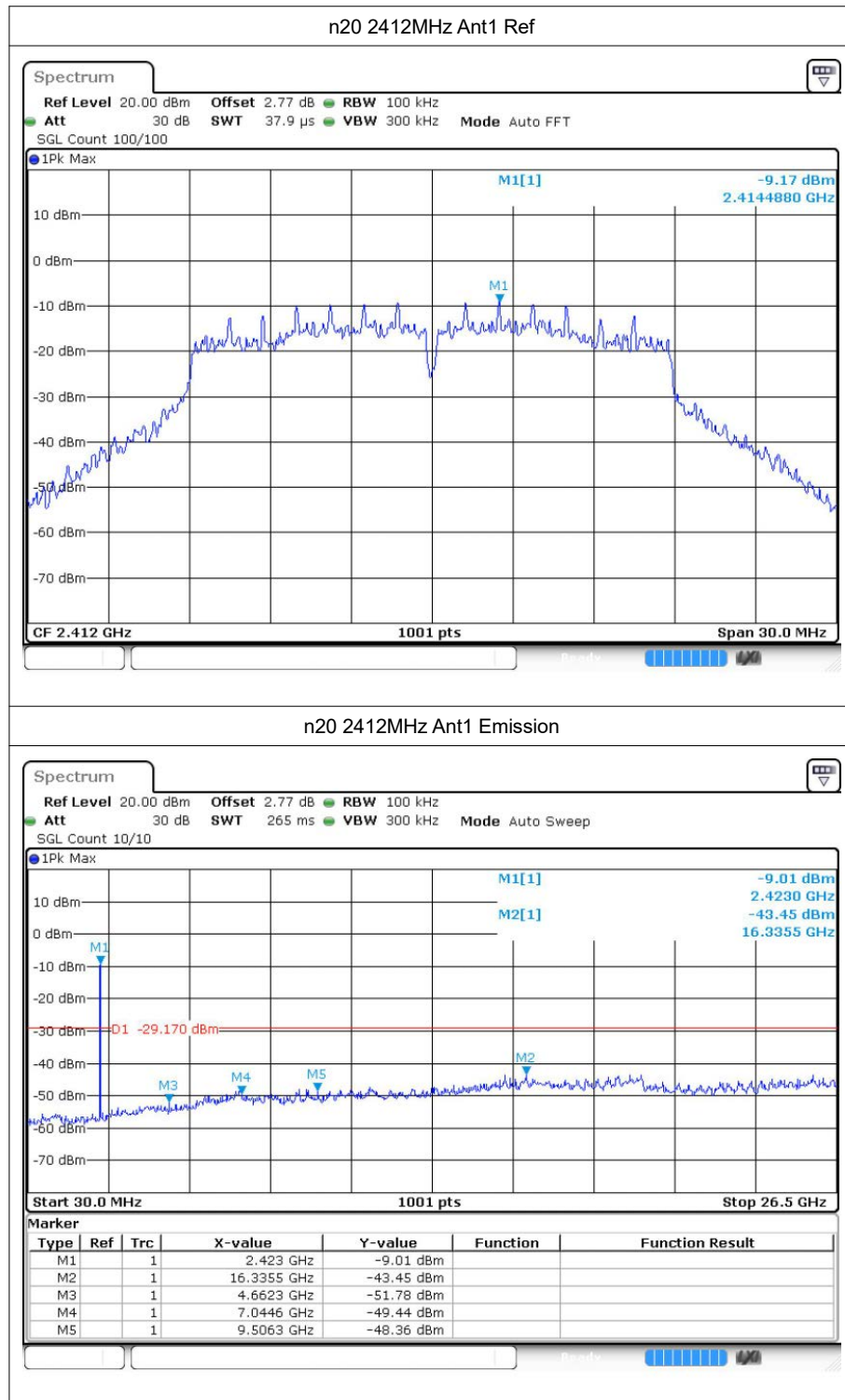


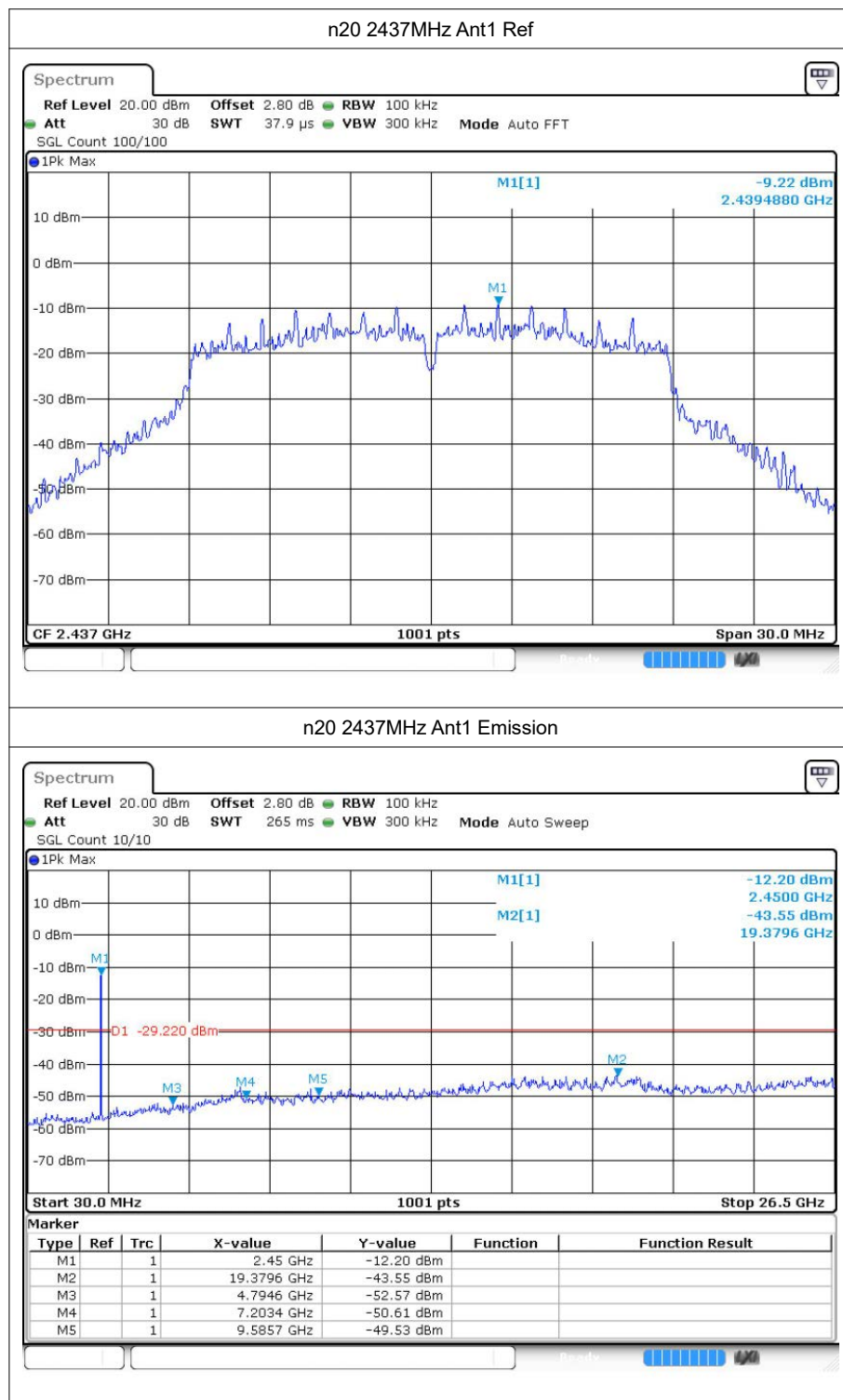


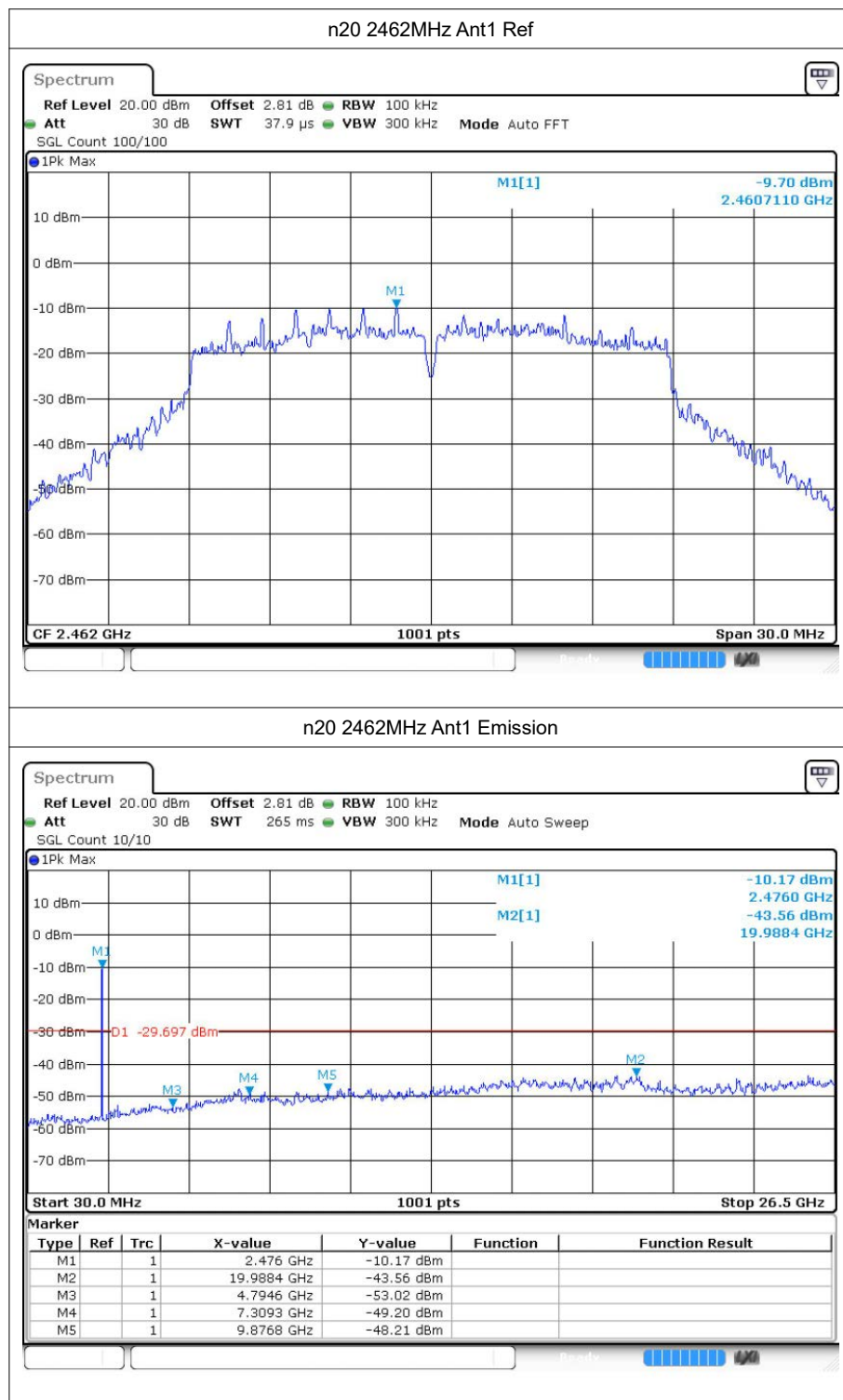














7 Restrict Band

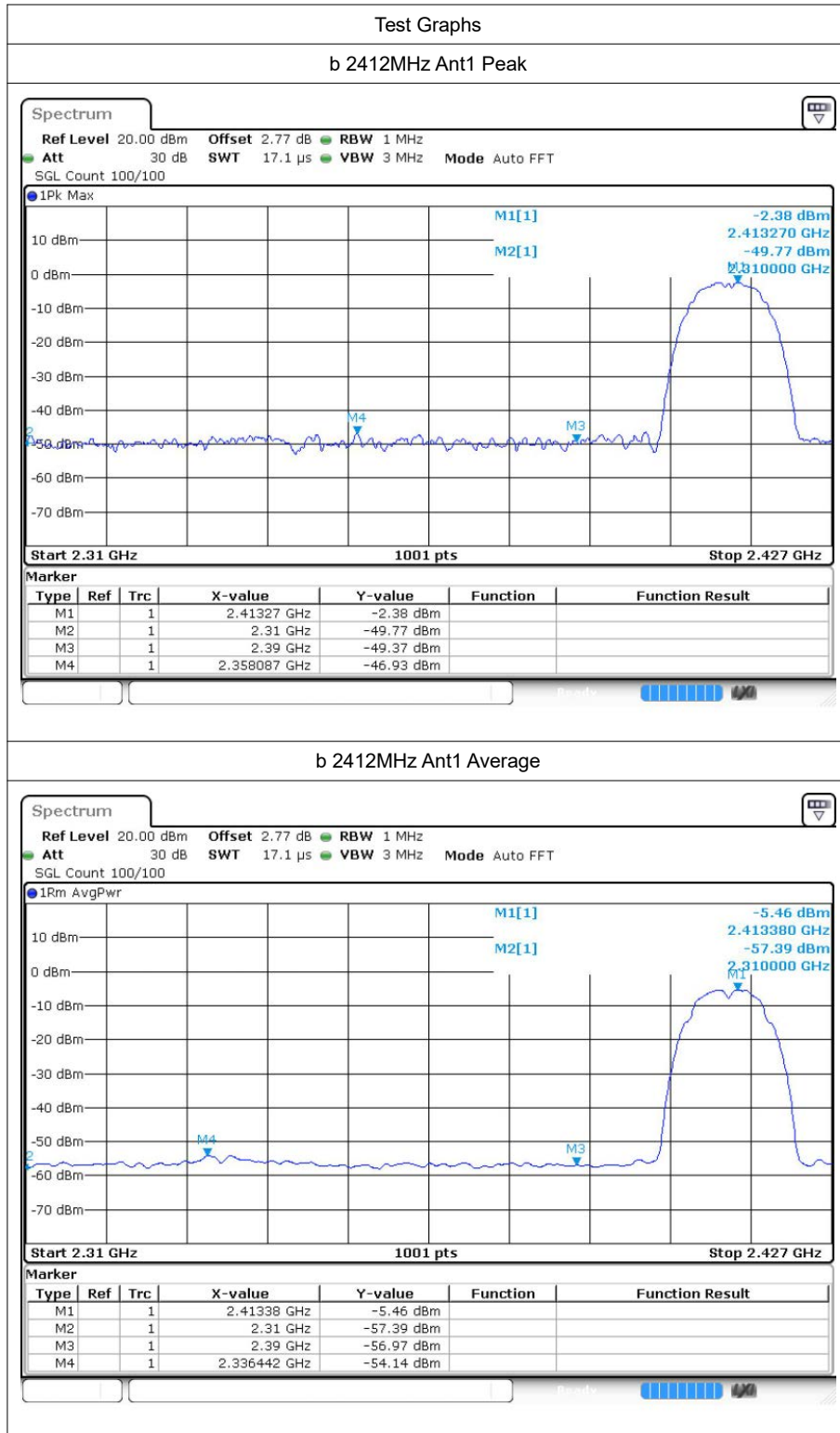
7.1 Test Result

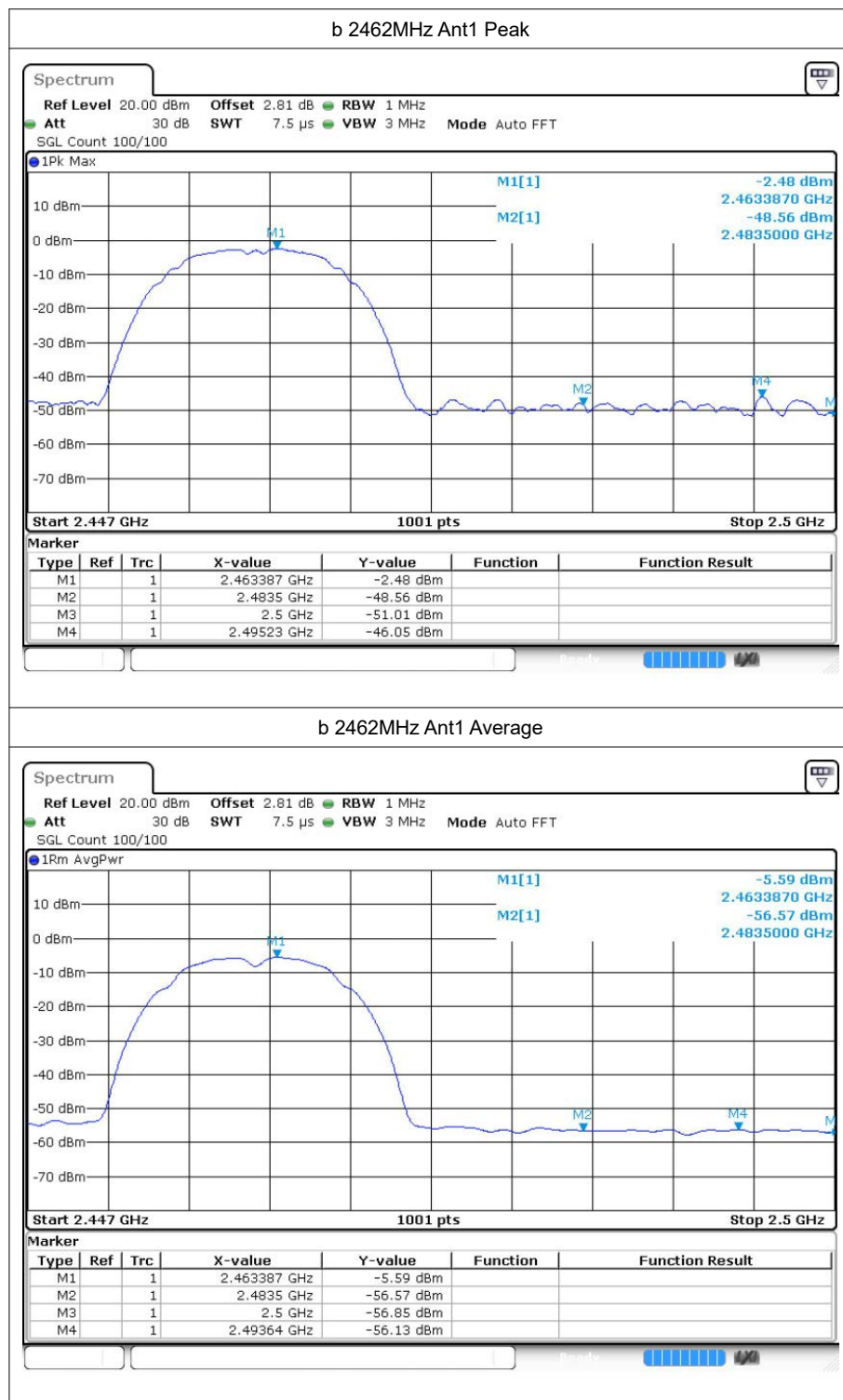
Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
b	2412	Ant1	2310	-49.77	2	-	47.49	Peak	74	Pass
b	2412	Ant1	2310	-57.39	2	0	39.87	Average	54	Pass
b	2412	Ant1	2358.087	-46.93	2	-	50.33	Peak	74	Pass
b	2412	Ant1	2336.442	-54.14	2	0	43.12	Average	54	Pass
b	2412	Ant1	2390	-49.37	2	-	47.89	Peak	74	Pass
b	2412	Ant1	2390	-56.97	2	0	40.29	Average	54	Pass
b	2462	Ant1	2483.5	-48.56	2	-	48.7	Peak	74	Pass
b	2462	Ant1	2483.5	-56.57	2	0	40.69	Average	54	Pass
b	2462	Ant1	2495.23	-46.04	2	-	51.22	Peak	74	Pass
b	2462	Ant1	2493.64	-56.12	2	0	41.14	Average	54	Pass
b	2462	Ant1	2500	-51.01	2	-	46.25	Peak	74	Pass
b	2462	Ant1	2500	-56.85	2	0	40.41	Average	54	Pass
g	2412	Ant1	2310	-50.29	2	-	46.97	Peak	74	Pass
g	2412	Ant1	2310	-56.43	2	0.61	41.44	Average	54	Pass
g	2412	Ant1	2338.782	-46.68	2	-	50.58	Peak	74	Pass
g	2412	Ant1	2339.484	-54.45	2	0.61	43.42	Average	54	Pass
g	2412	Ant1	2390	-50.76	2	-	47.89	Peak	74	Pass
g	2412	Ant1	2390	-56.53	2	0.61	41.34	Average	54	Pass
g	2462	Ant1	2483.5	-49.36	2	-	47.9	Peak	74	Pass
g	2462	Ant1	2483.5	-56.11	2	0.61	41.76	Average	54	Pass
g	2462	Ant1	2495.23	-46.66	2	-	50.6	Peak	74	Pass
g	2462	Ant1	2492.739	-55.53	2	0.61	42.34	Average	54	Pass
g	2462	Ant1	2500	-51.79	2	-	46.25	Peak	74	Pass
g	2462	Ant1	2500	-55.95	2	0.61	41.92	Average	54	Pass
n20	2412	Ant1	2310	-48.66	2	-	48.6	Peak	74	Pass
n20	2412	Ant1	2310	-56.74	2	0.58	41.1	Average	54	Pass
n20	2412	Ant1	2336.91	-45.94	2	-	51.32	Peak	74	Pass
n20	2412	Ant1	2339.133	-54.09	2	0.58	43.75	Average	54	Pass
n20	2412	Ant1	2390	-50.58	2	-	46.68	Peak	74	Pass
n20	2412	Ant1	2390	-56.72	2	0.58	41.12	Average	54	Pass
n20	2462	Ant1	2483.5	-46.88	2	-	50.38	Peak	74	Pass
n20	2462	Ant1	2483.5	-56.3	2	0.58	41.54	Average	54	Pass
n20	2462	Ant1	2483.517	-46.87	2	-	50.39	Peak	74	Pass
n20	2462	Ant1	2490.619	-55.8	2	0.58	42.04	Average	54	Pass

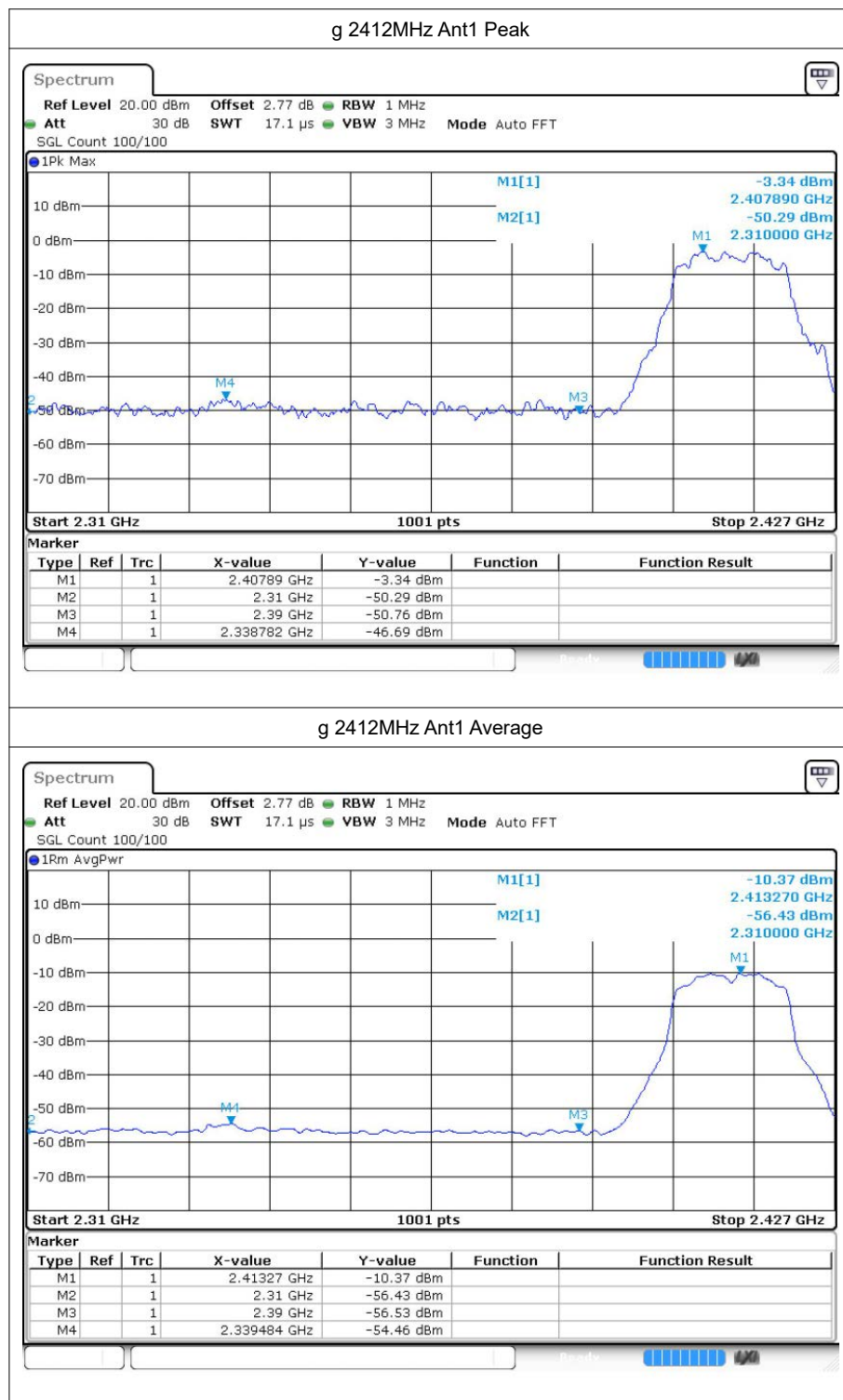


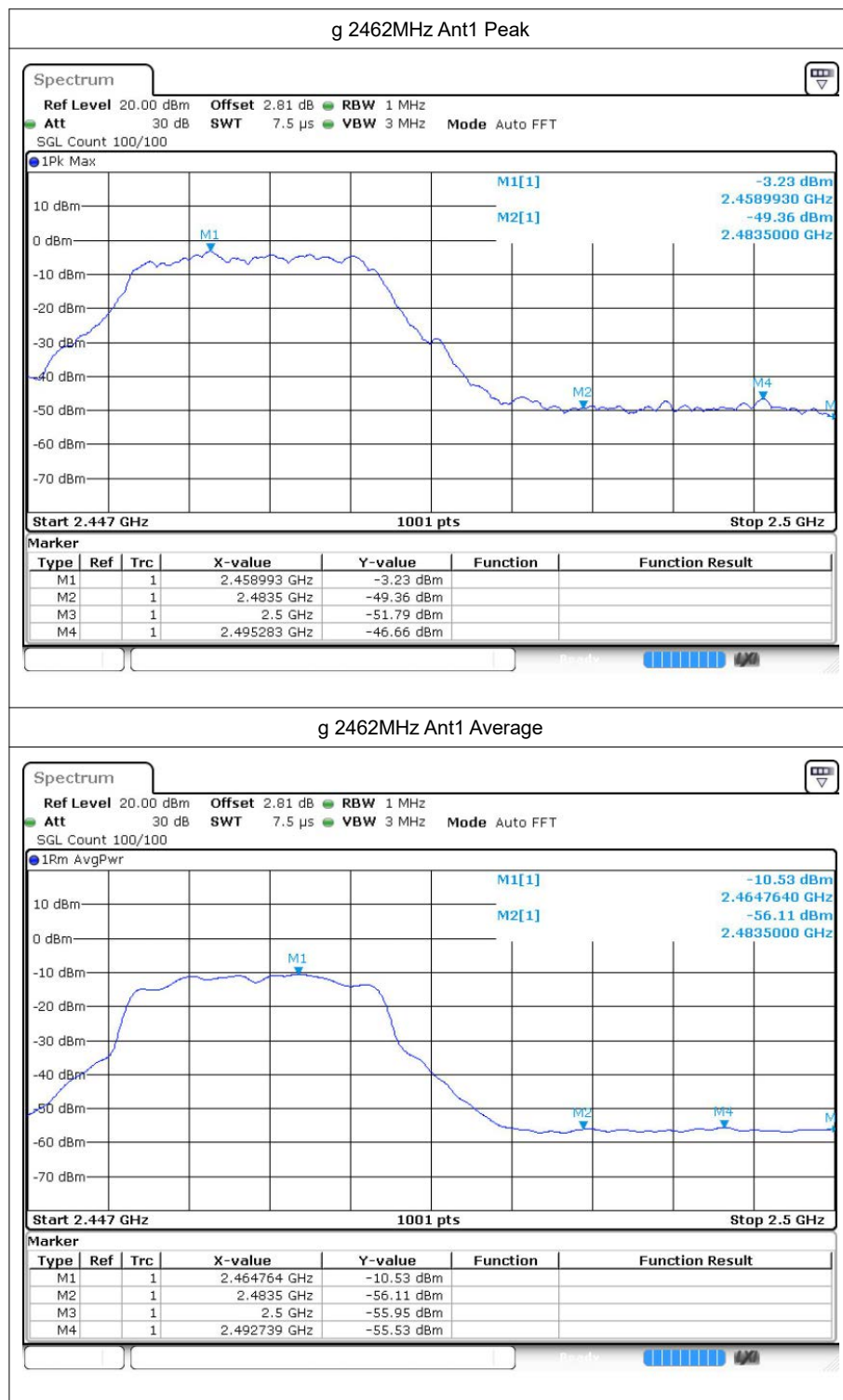
n20	2462	Ant1	2500	-48.75	2	-	48.51	Peak	74	Pass
n20	2462	Ant1	2500	-56.02	2	0.58	41.82	Average	54	Pass

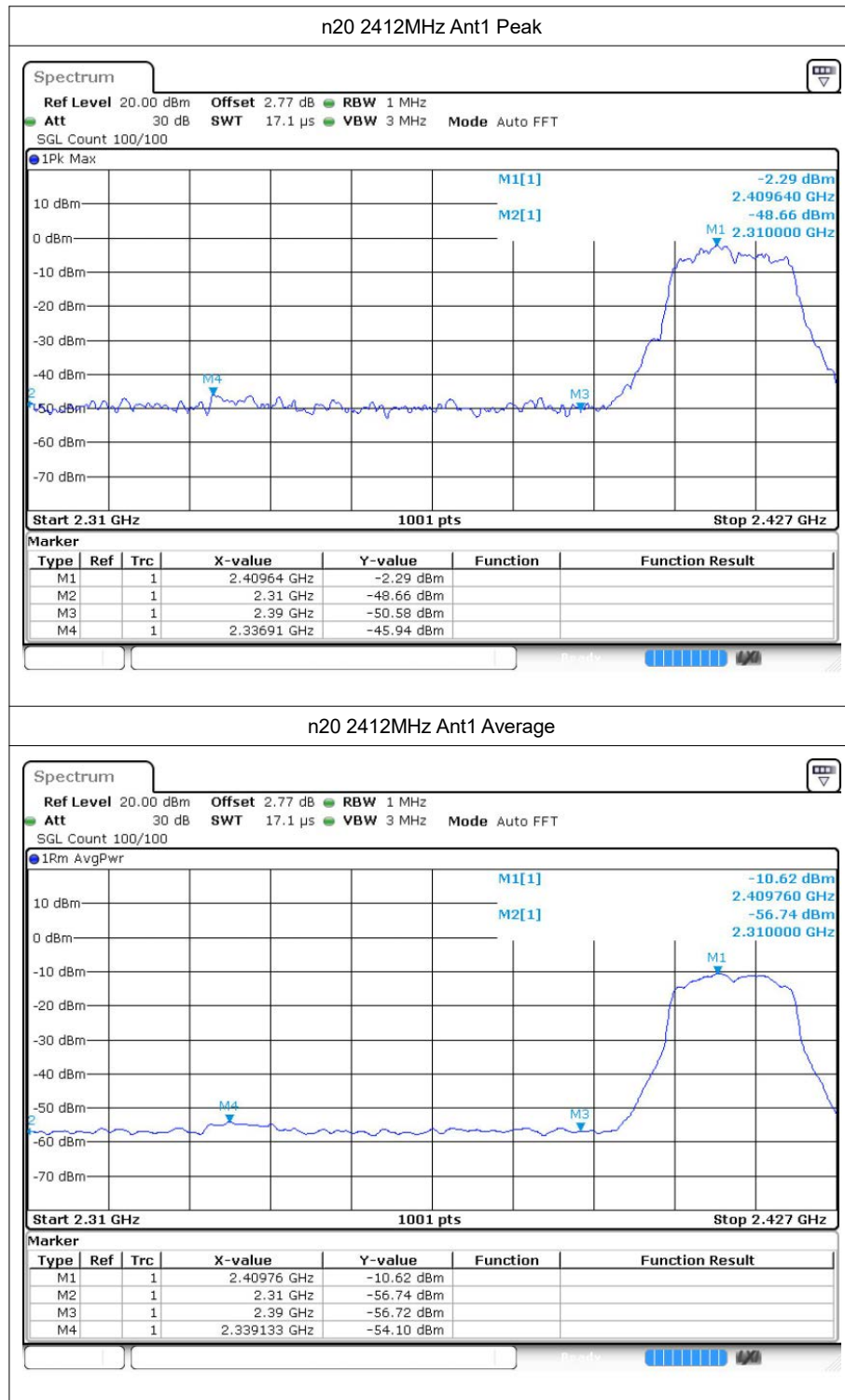
7.2 Test Graphs

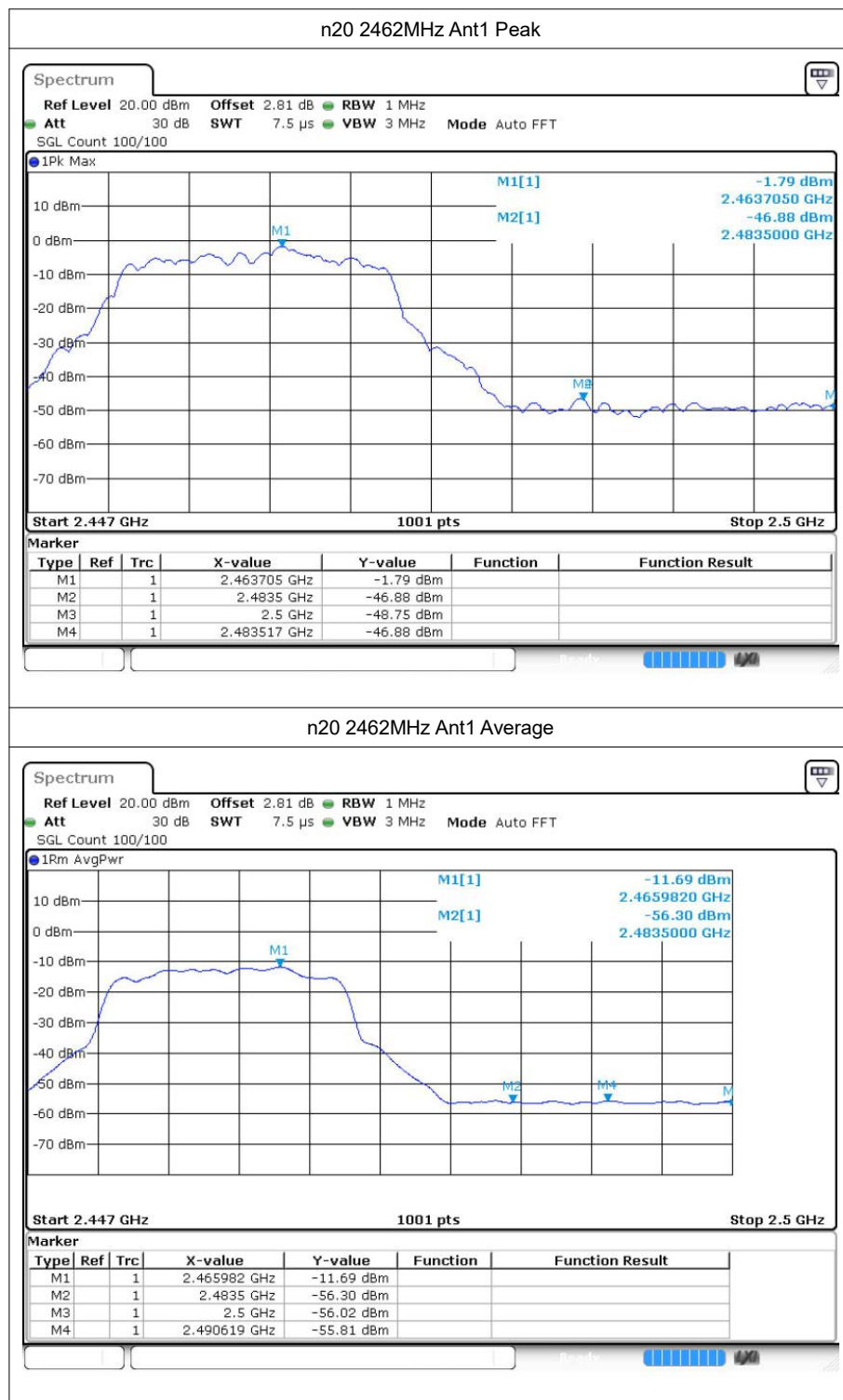












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