



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Carplay dash camera

Trade Mark: MIROIR

Test Model: M1003-7

Environmental Conditions

Temperature:	24.9℃
Relative Humidity:	52.6%
ATM Pressure:	101Kpa
Test Engineer:	Emiya lin
Supervised by:	Simba Haung



Contents

	Page
COVER PAGE	
1 Duty Cycle	3
1.1 Test Result	3
1.2 Test Graphs	4
2 Maximum Conducted Output Power	9
2.1 Test Result	9
3 -6dB Bandwidth	10
3.1 Test Result	10
3.2 Test Graphs	11
4 Maximum Power Spectral Density Level	16
4.1 Test Result	16
4.2 Test Graphs	17
5 Band Edge	22
5.1 Test Result	22
5.2 Test Graphs	23
6 Conducted RF Spurious Emission	29
6.1 Test Result	29
6.2 Test Graphs	30
7 Restrict Band	39
7.1 Test Result	39
7.2 Test Graphs	41

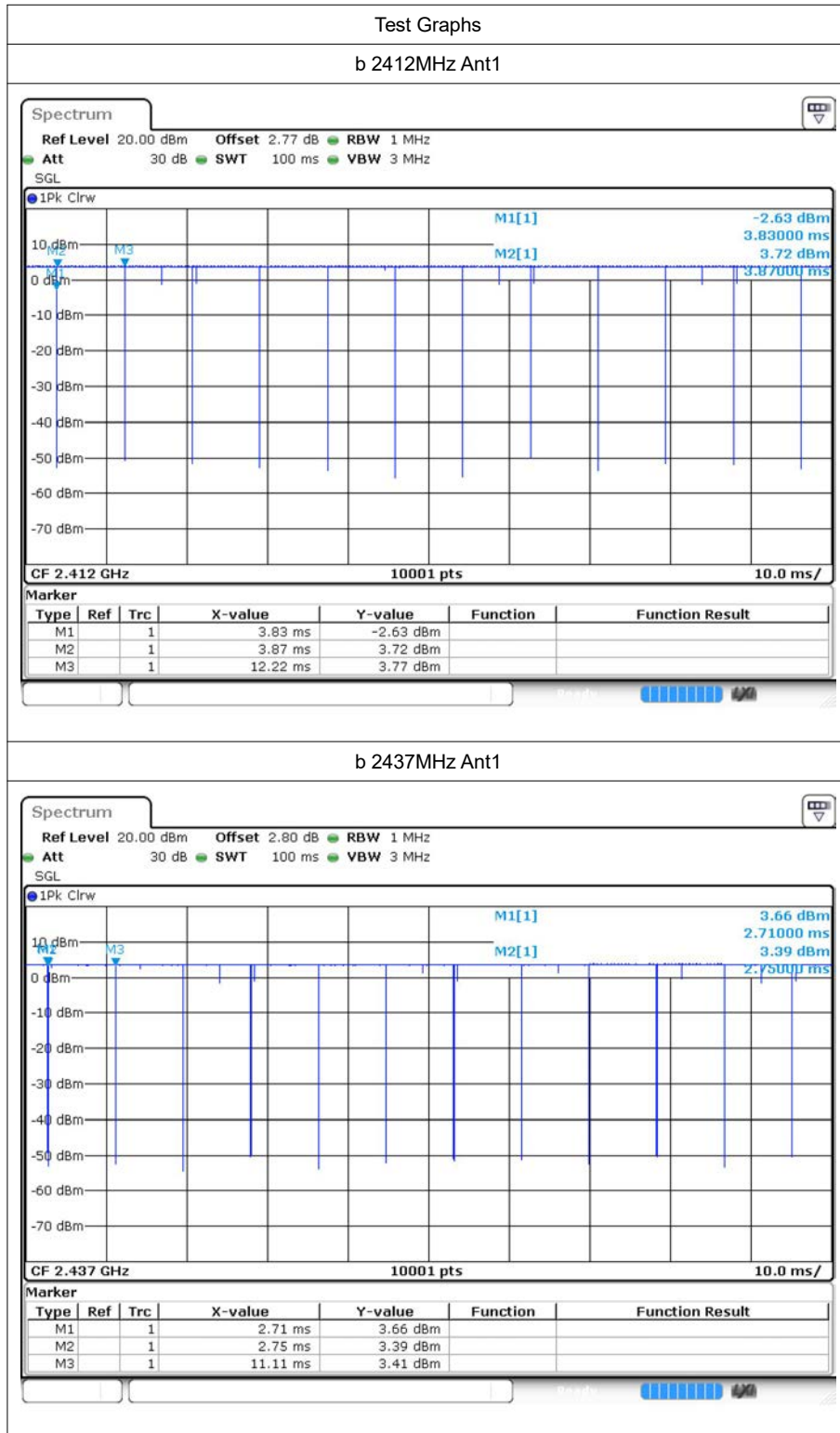


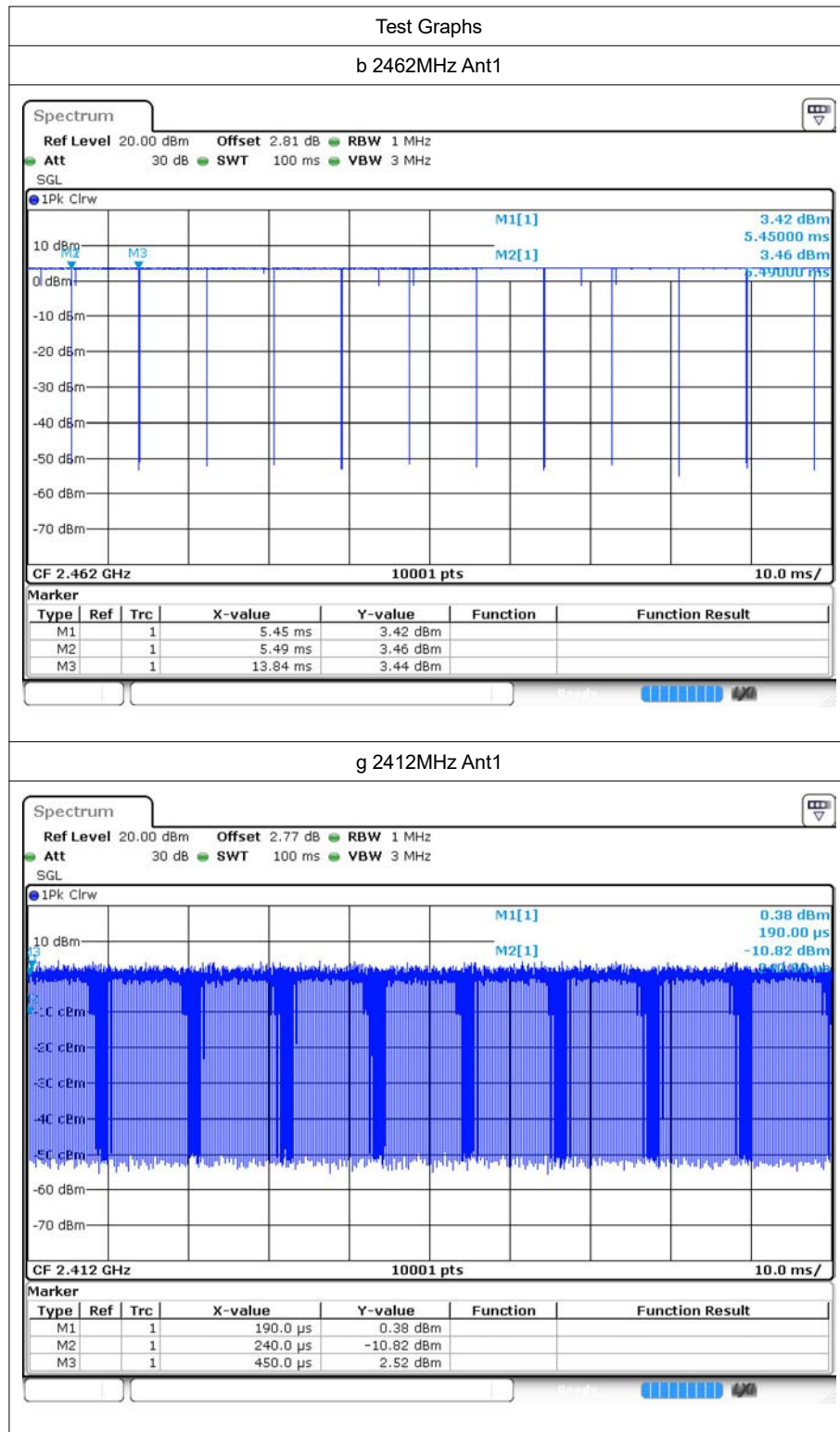
1 Duty Cycle

1.1 Test Result

Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor	1/T (kHz)
b	2412	Ant1	99.59	0.02	0.12
b	2437	Ant1	99.61	0.02	0.12
b	2462	Ant1	99.6	0.02	0.12
g	2412	Ant1	86.96	0.61	4.76
g	2437	Ant1	86.94	0.61	4.76
g	2462	Ant1	86.86	0.61	4.76
n20	2412	Ant1	87.59	0.58	4.35
n20	2437	Ant1	87.61	0.57	4.35
n20	2462	Ant1	87.59	0.58	4.35

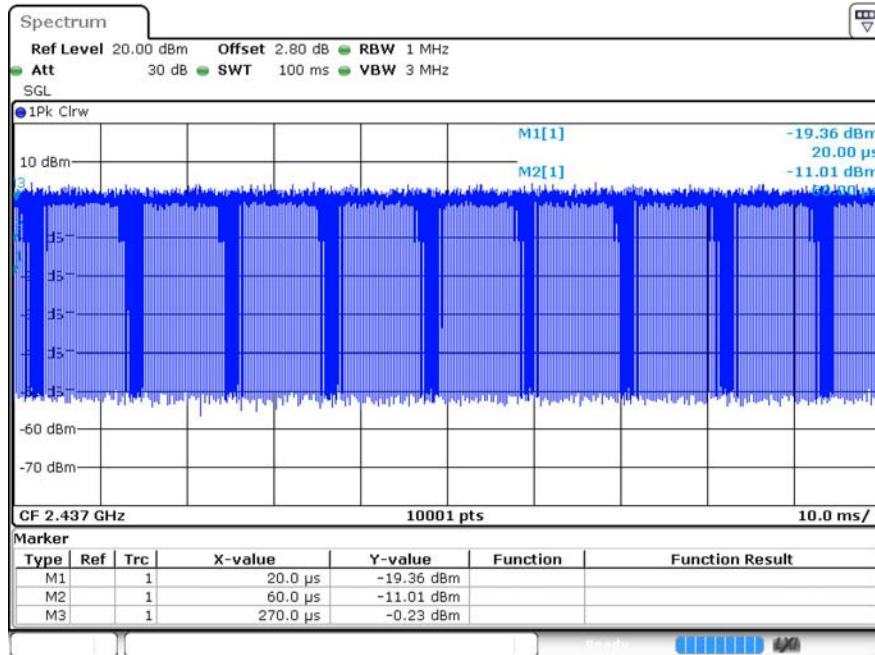
1.2 Test Graphs



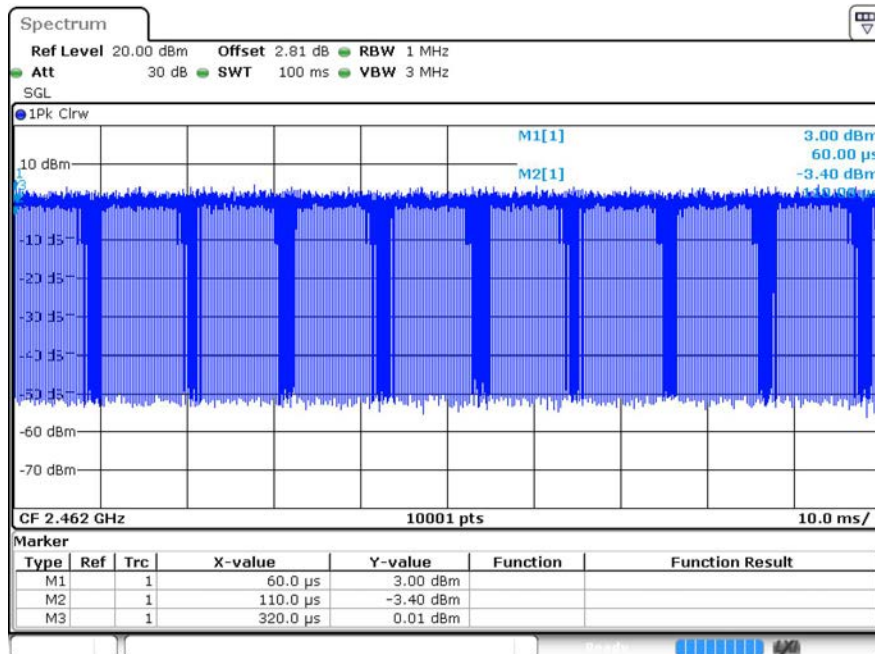


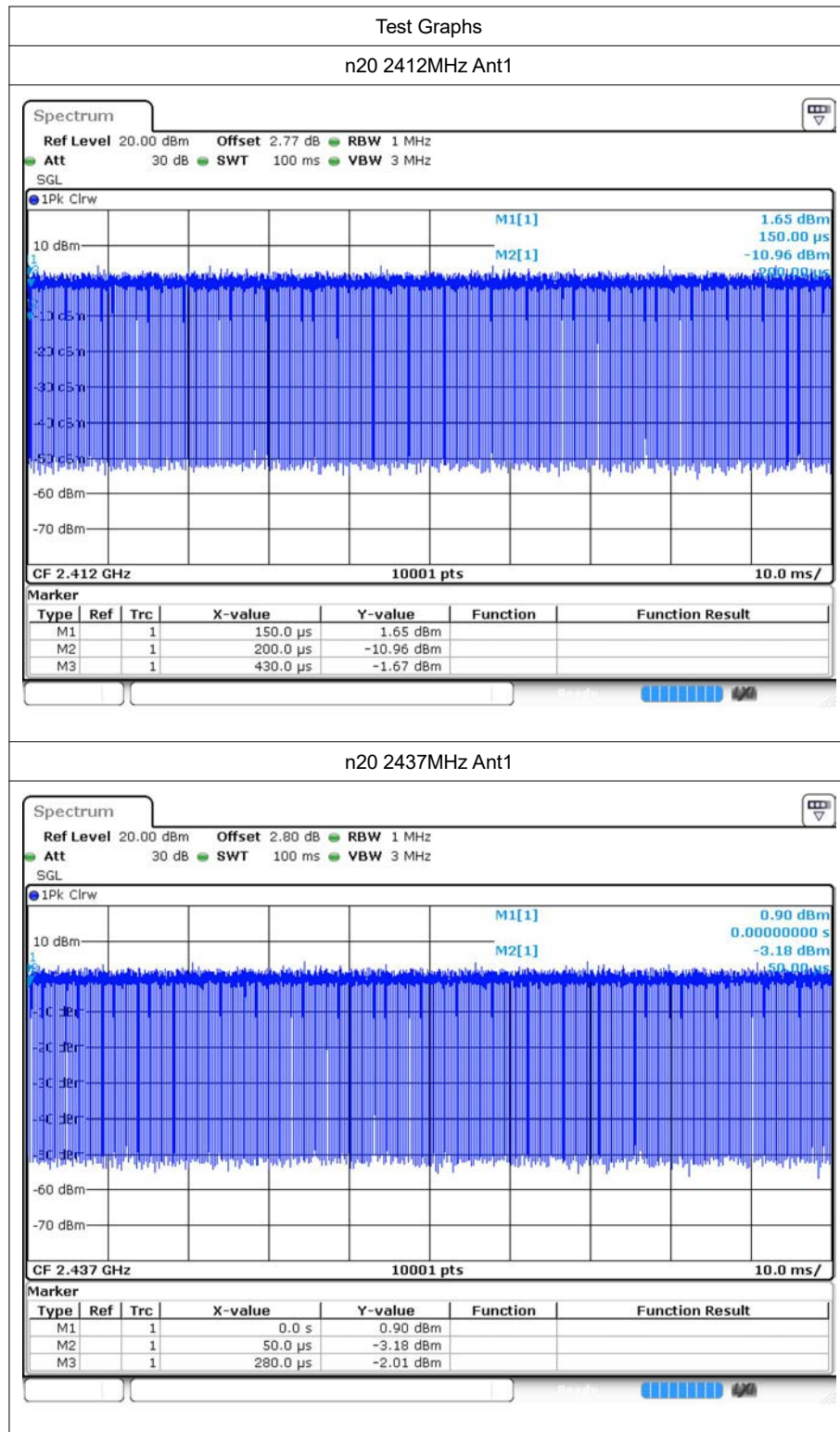
Test Graphs

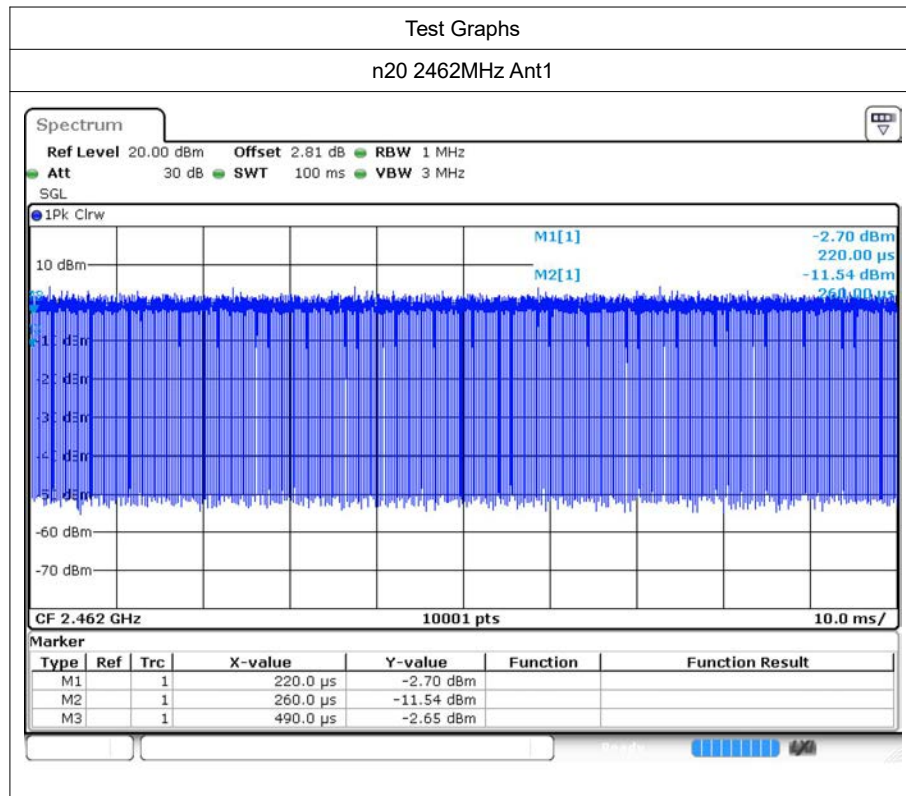
g 2437MHz Ant1



g 2462MHz Ant1









2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant1	14.16	30	Pass
b	2437	Ant1	14.01	30	Pass
b	2462	Ant1	14.02	30	Pass
g	2412	Ant1	13.84	30	Pass
g	2437	Ant1	13.64	30	Pass
g	2462	Ant1	13.68	30	Pass
n20	2412	Ant1	13.28	30	Pass
n20	2437	Ant1	13.2	30	Pass
n20	2462	Ant1	13.04	30	Pass

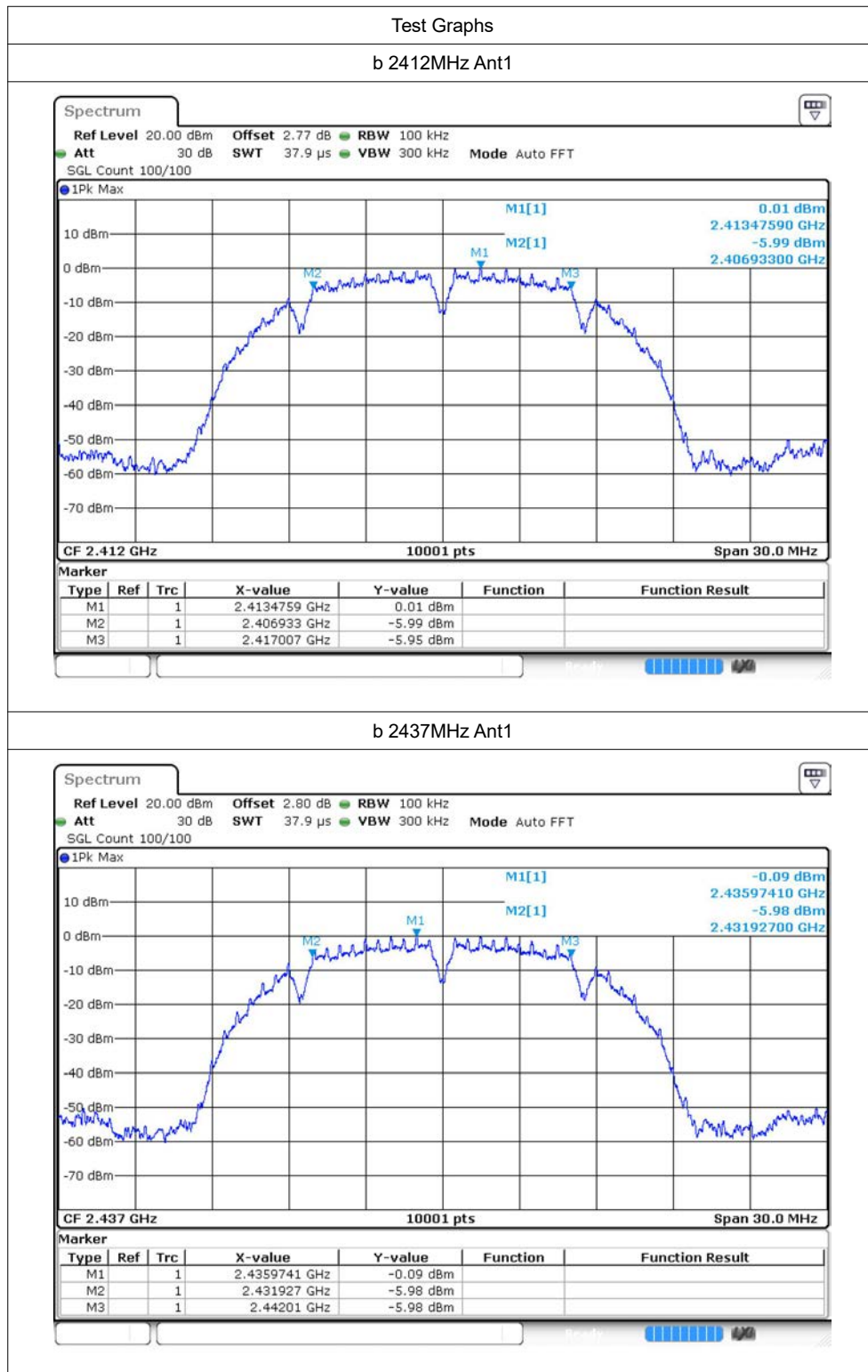


3 -6dB Bandwidth

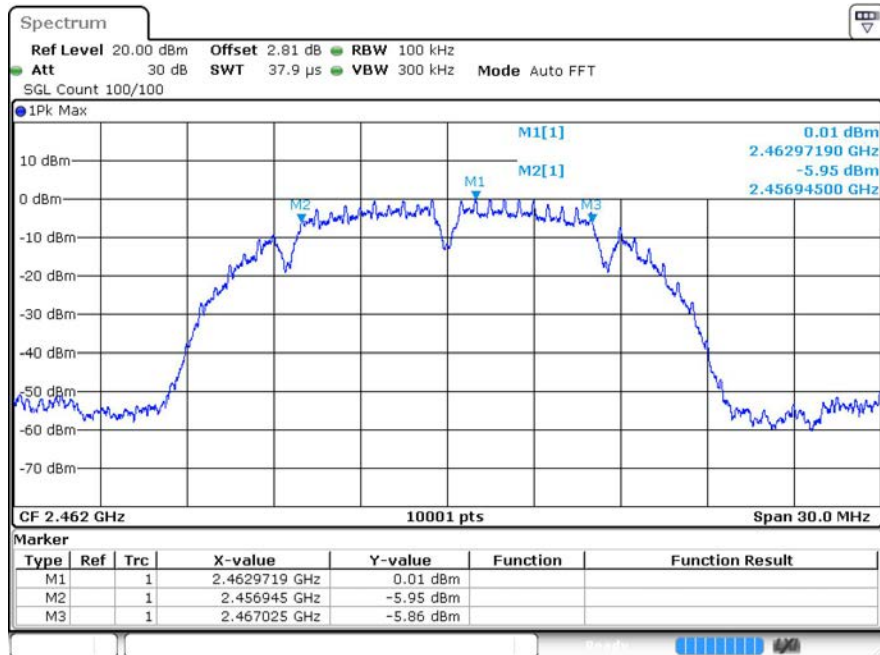
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	10.074	0.5	Pass
b	2437	Ant1	10.083	0.5	Pass
b	2462	Ant1	10.08	0.5	Pass
g	2412	Ant1	15.111	0.5	Pass
g	2437	Ant1	15.099	0.5	Pass
g	2462	Ant1	15.117	0.5	Pass
n20	2412	Ant1	15.105	0.5	Pass
n20	2437	Ant1	15.102	0.5	Pass
n20	2462	Ant1	15.111	0.5	Pass

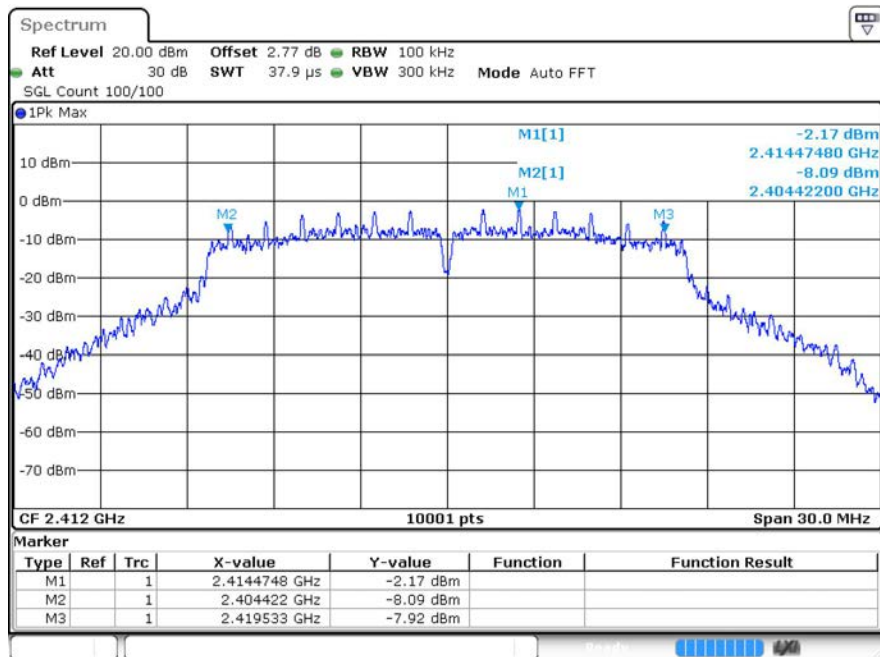
3.2 Test Graphs



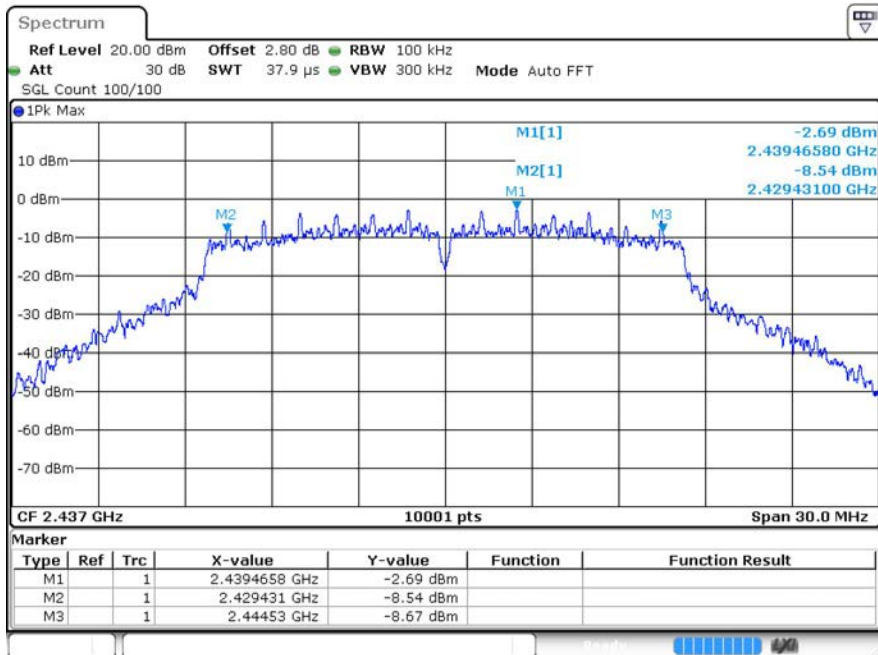
b 2462MHz Ant1



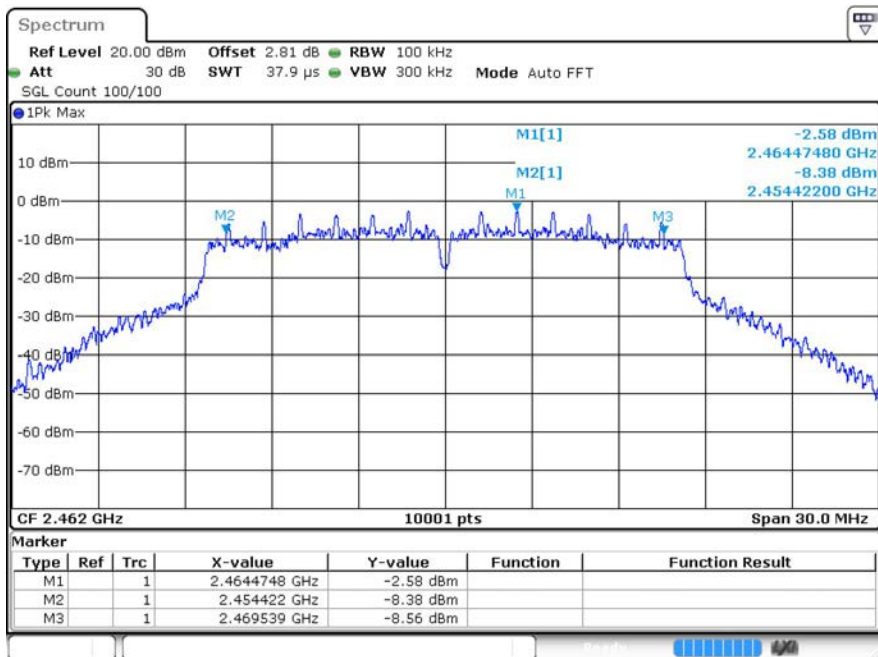
g 2412MHz Ant1

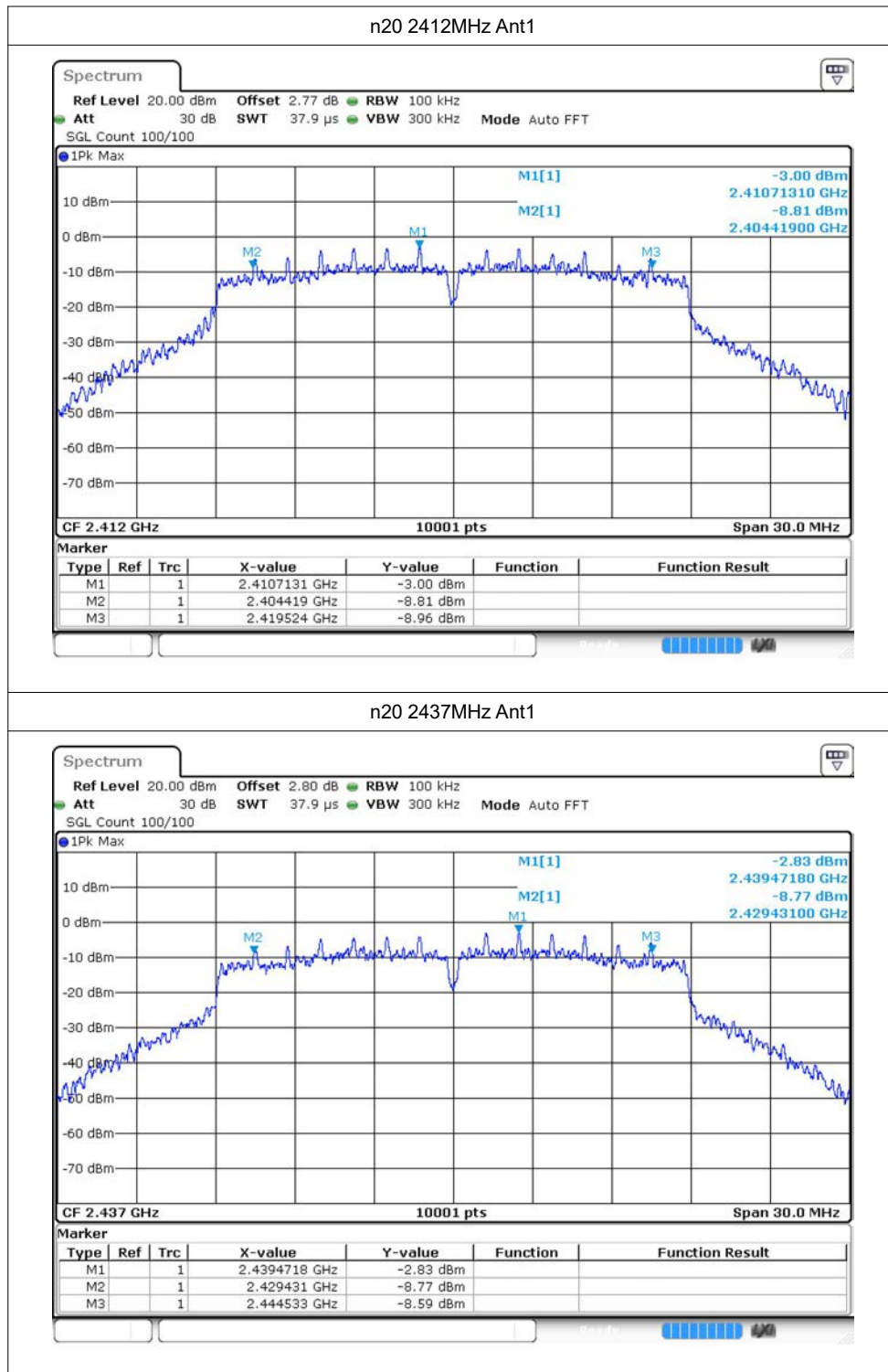


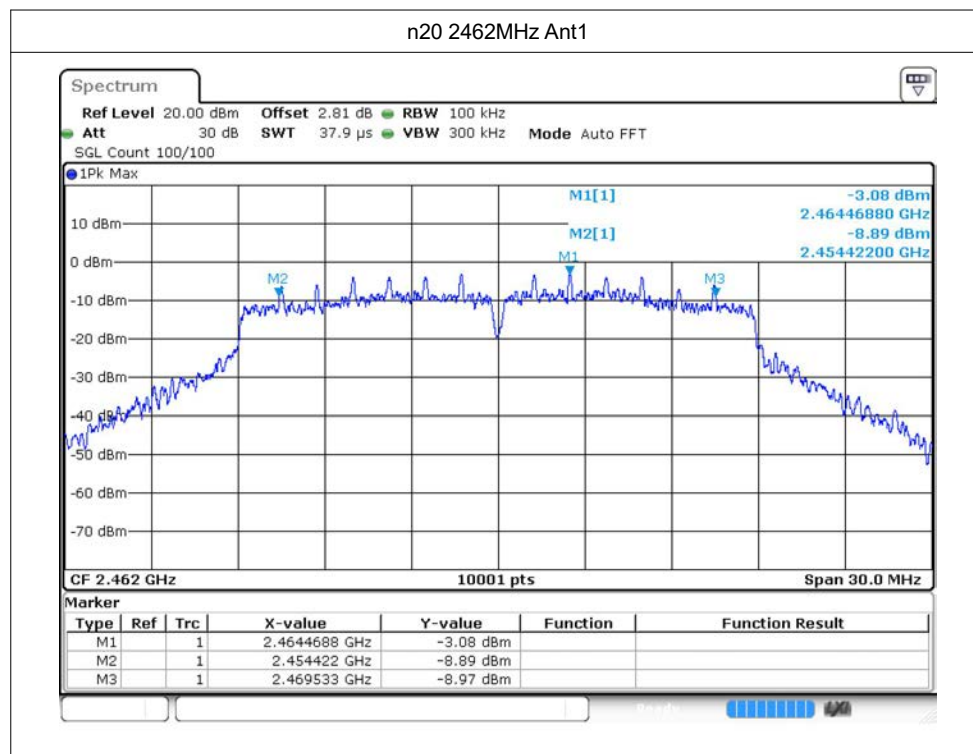
g 2437MHz Ant1



g 2462MHz Ant1





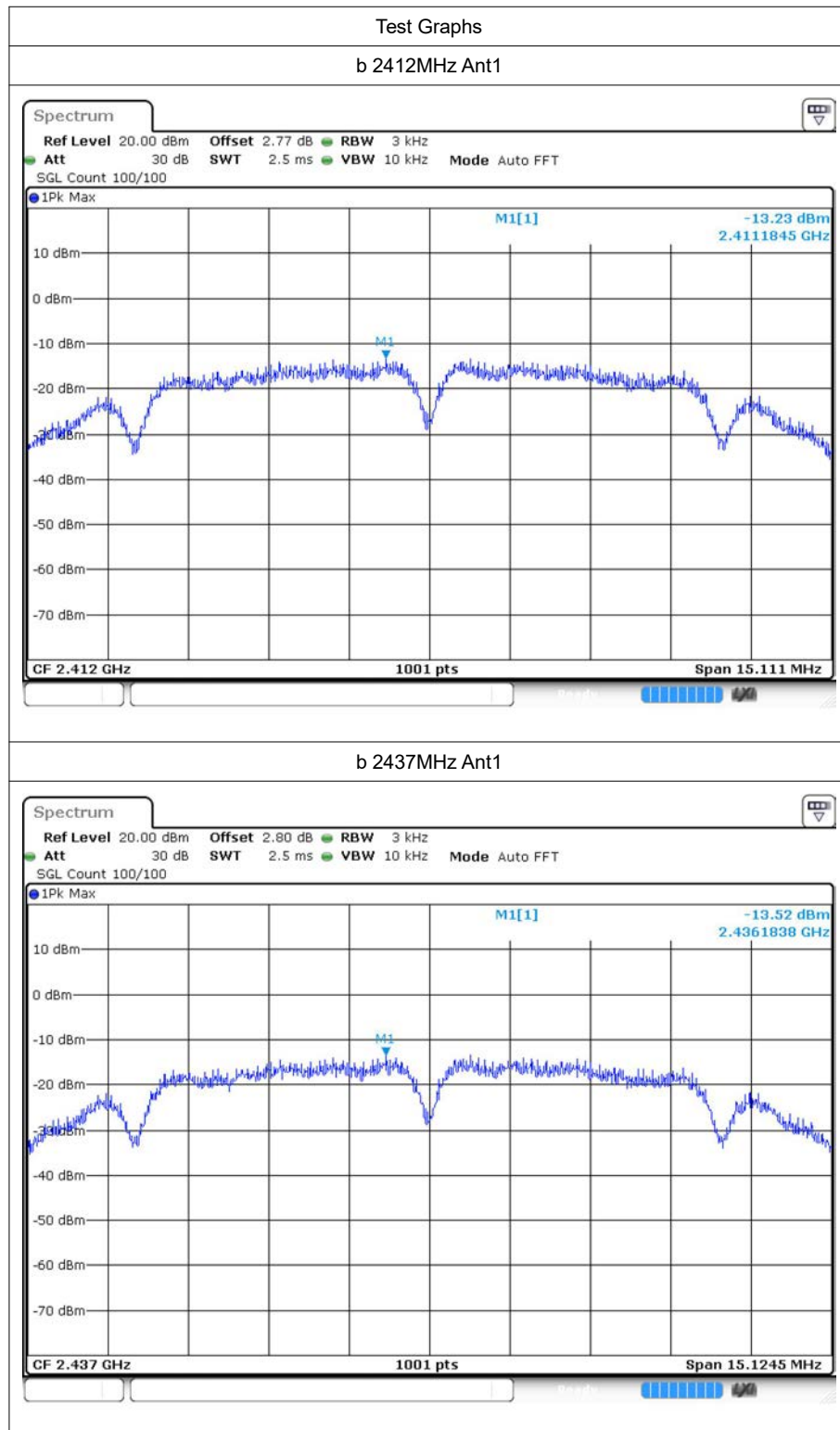


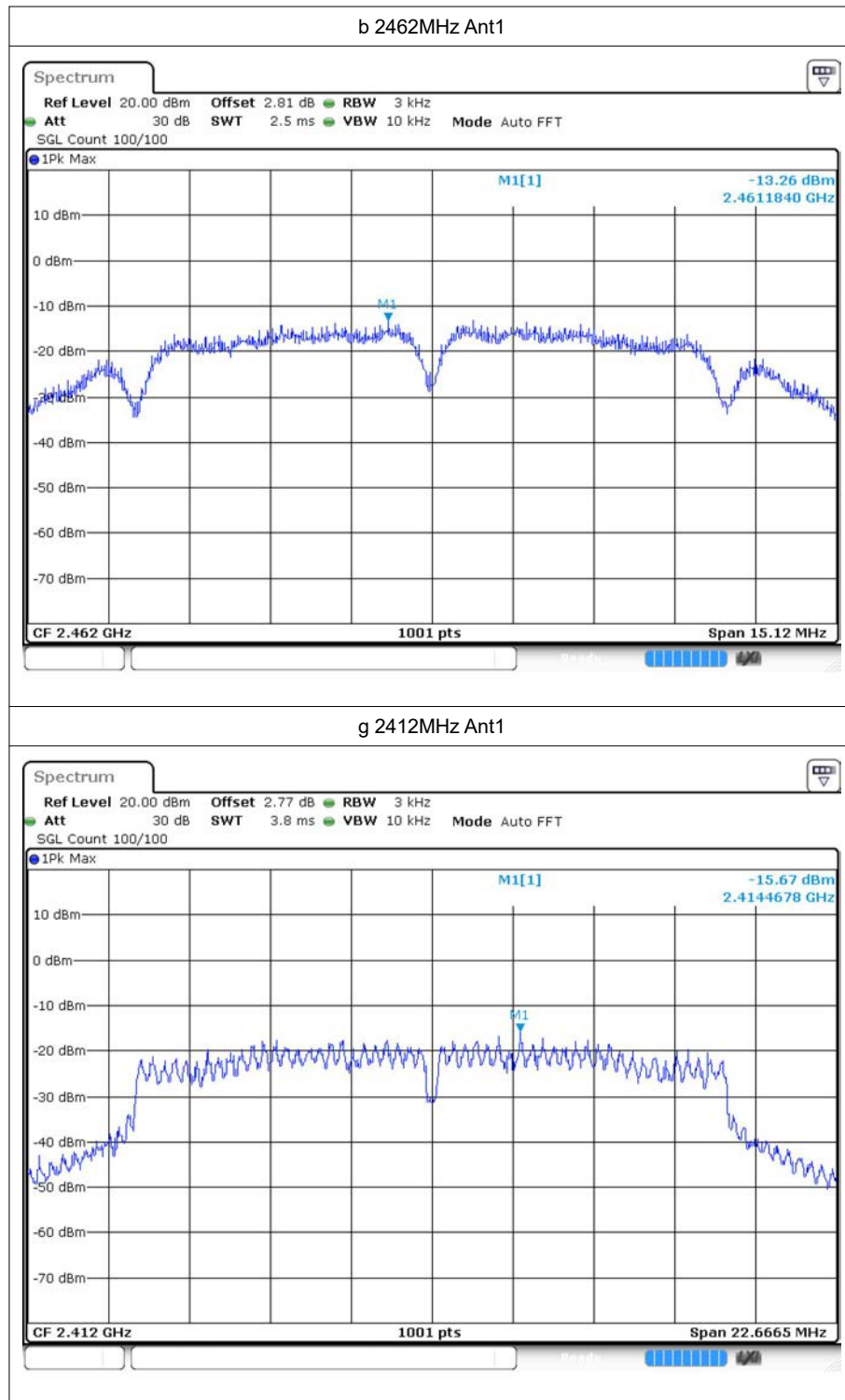
4 Maximum Power Spectral Density Level

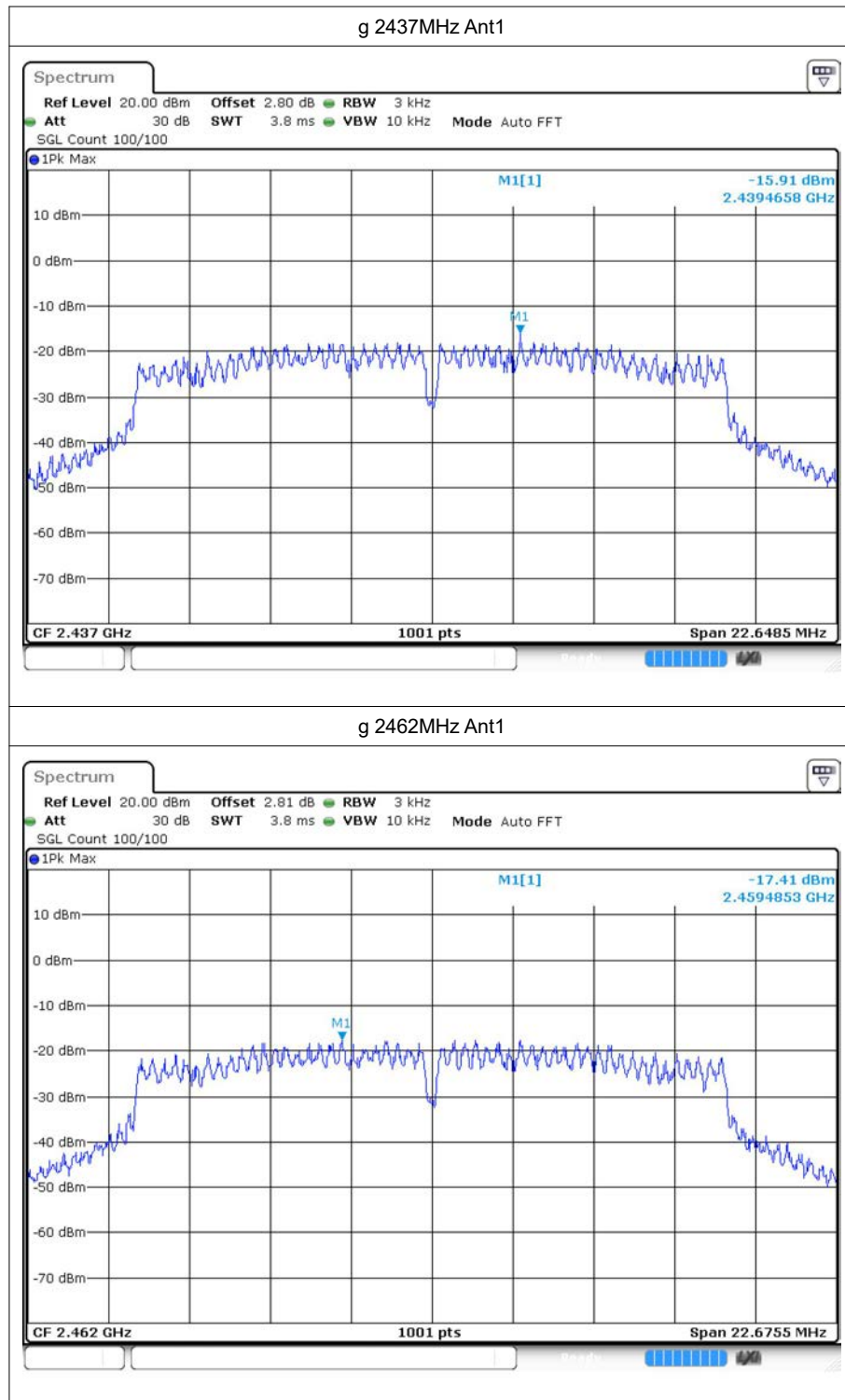
4.1 Test Result

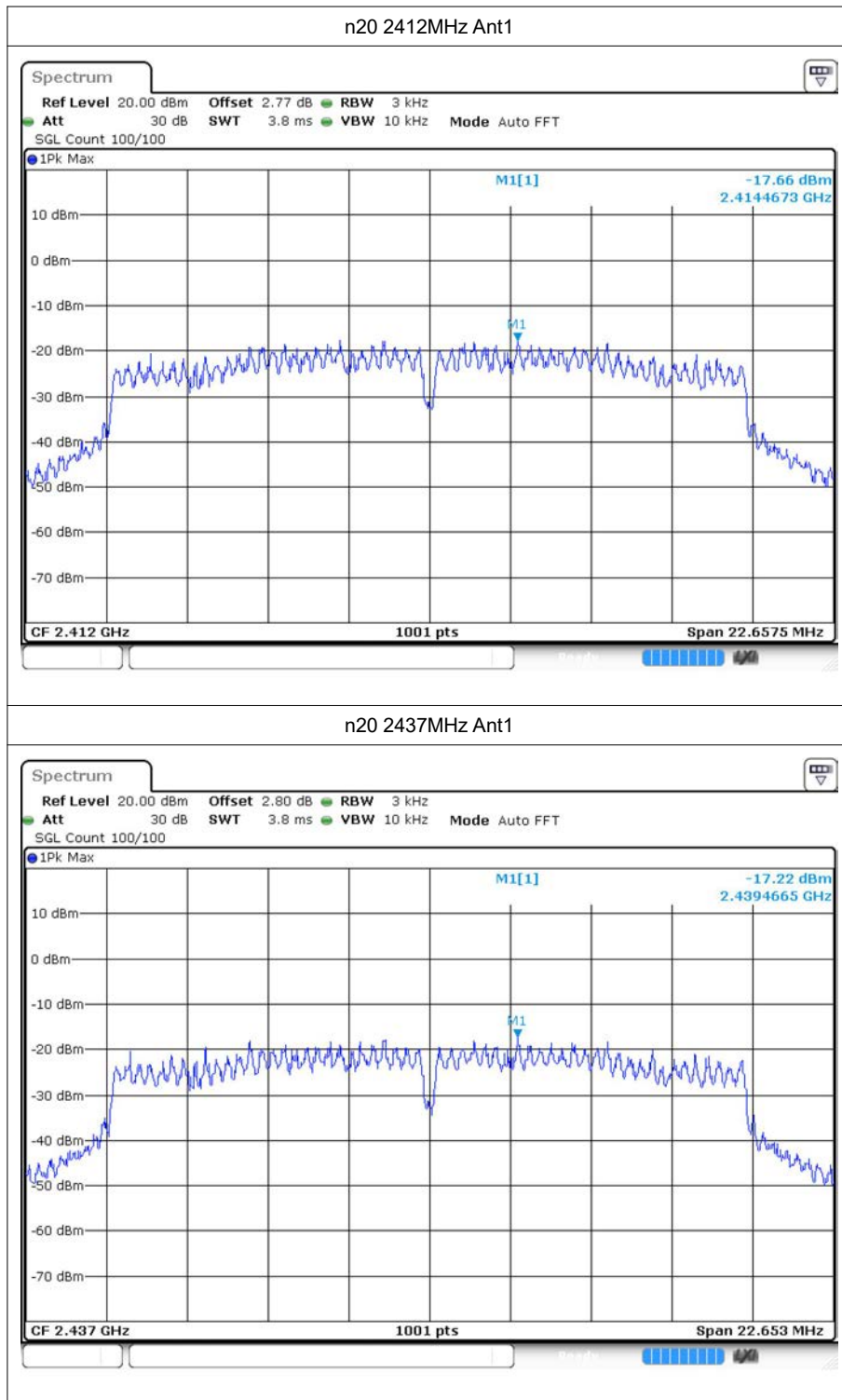
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
b	2412	Ant1	-13.23	≤ 8	Pass
b	2437	Ant1	-13.52	≤ 8	Pass
b	2462	Ant1	-13.26	≤ 8	Pass
g	2412	Ant1	-15.67	≤ 8	Pass
g	2437	Ant1	-15.91	≤ 8	Pass
g	2462	Ant1	-17.41	≤ 8	Pass
n20	2412	Ant1	-17.66	≤ 8	Pass
n20	2437	Ant1	-17.22	≤ 8	Pass
n20	2462	Ant1	-17.6	≤ 8	Pass

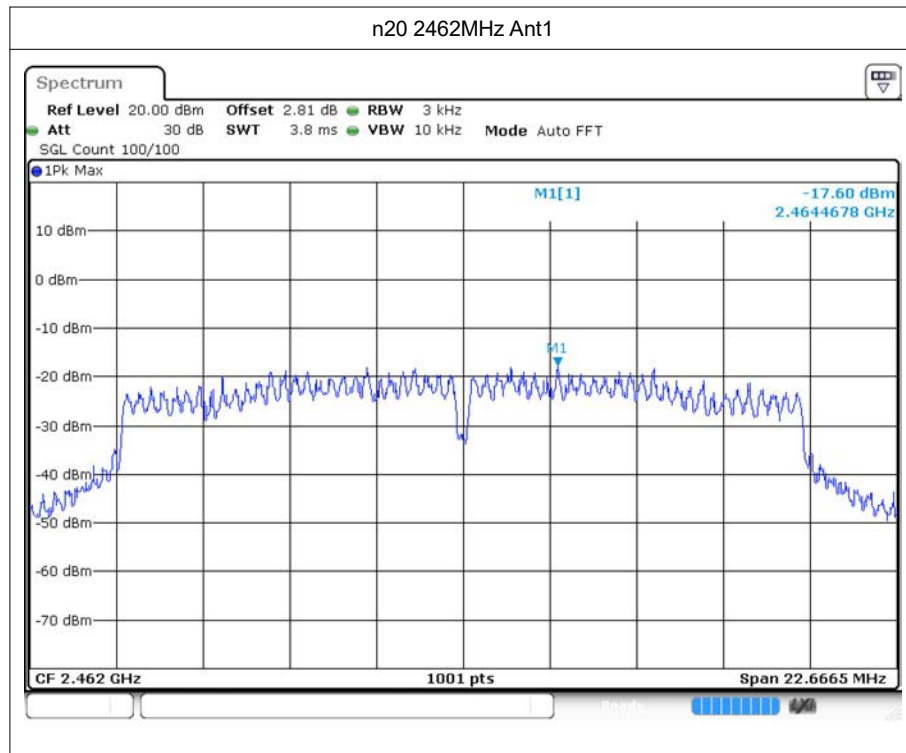
4.2 Test Graphs











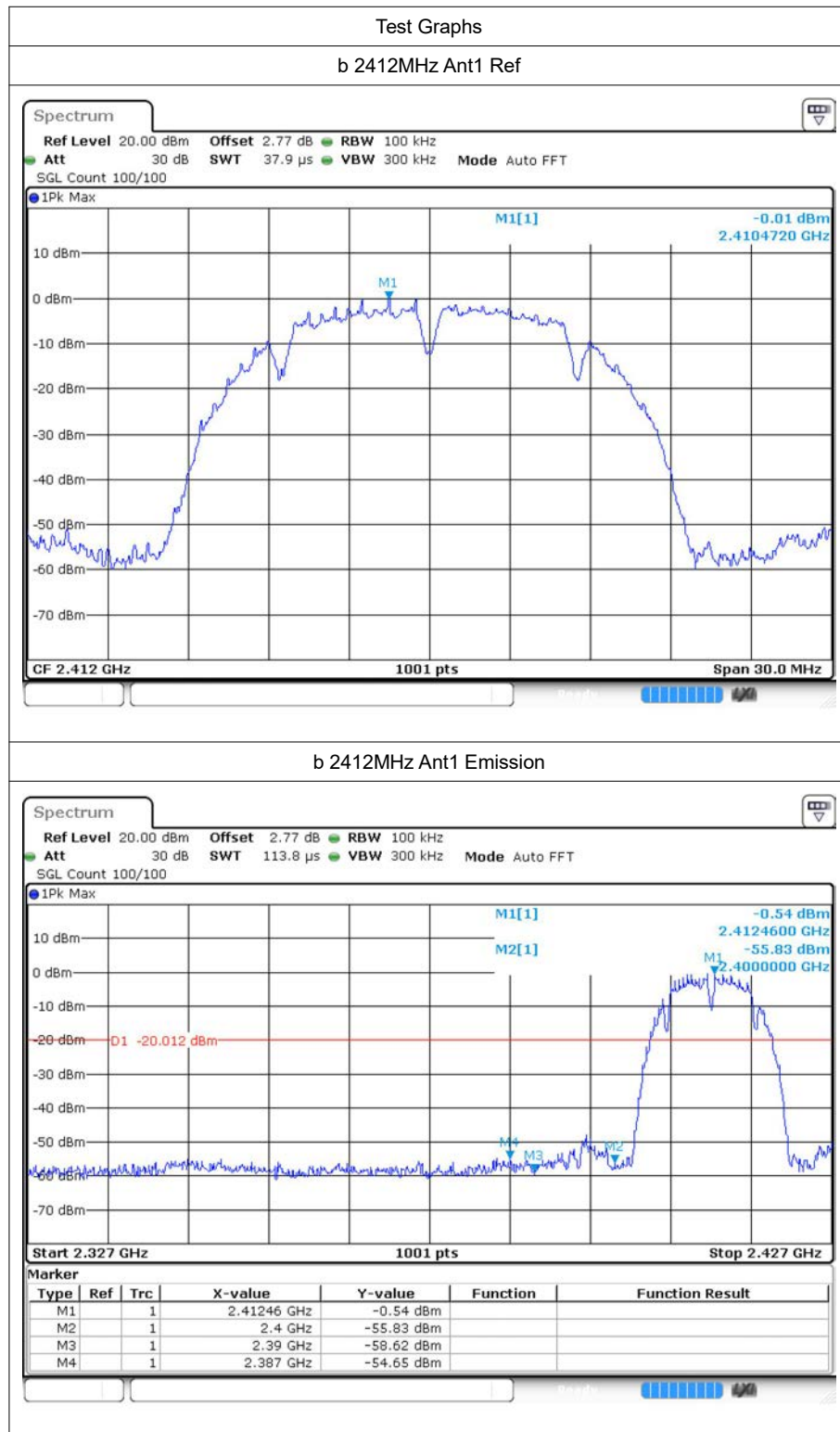


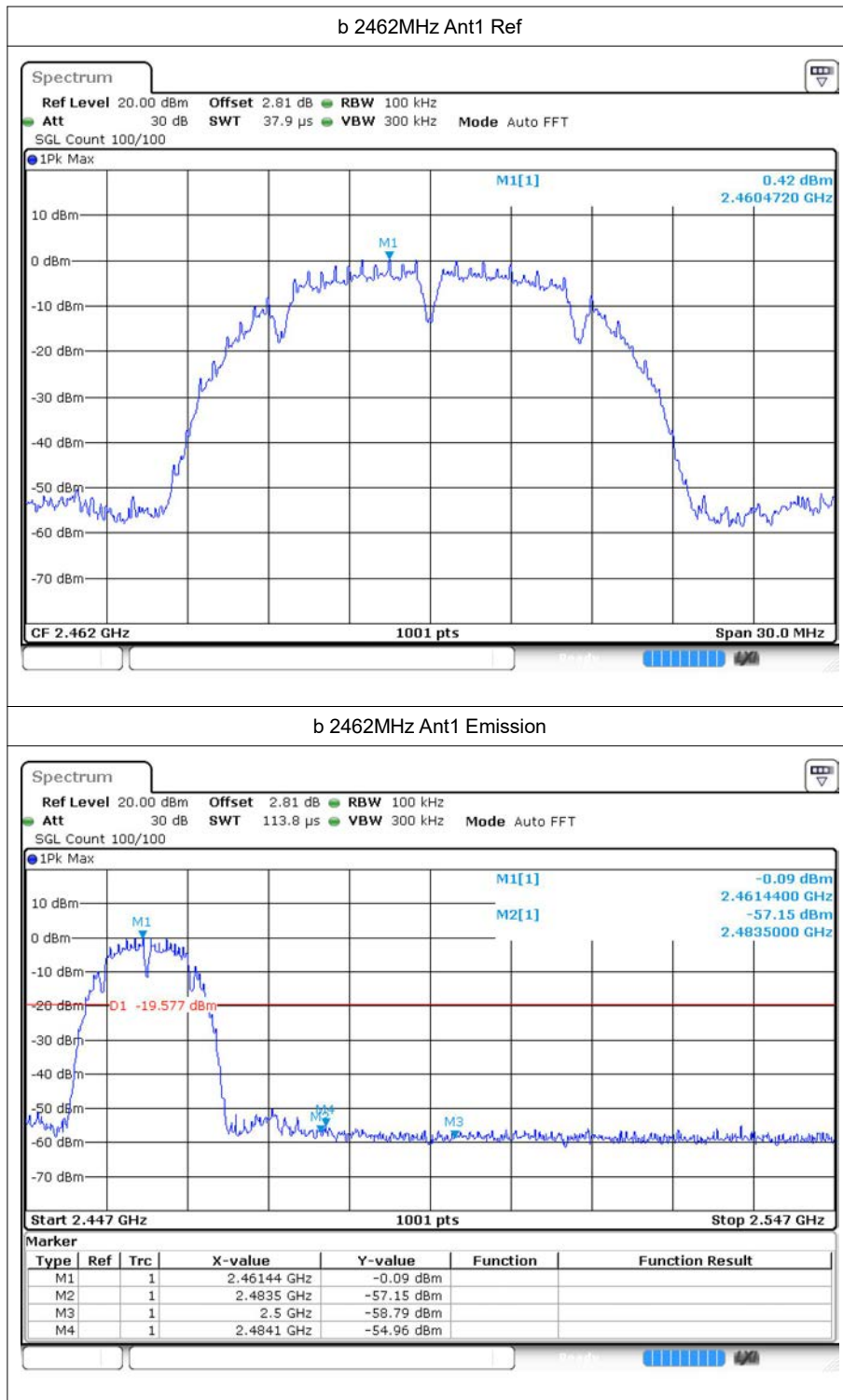
5 Band Edge

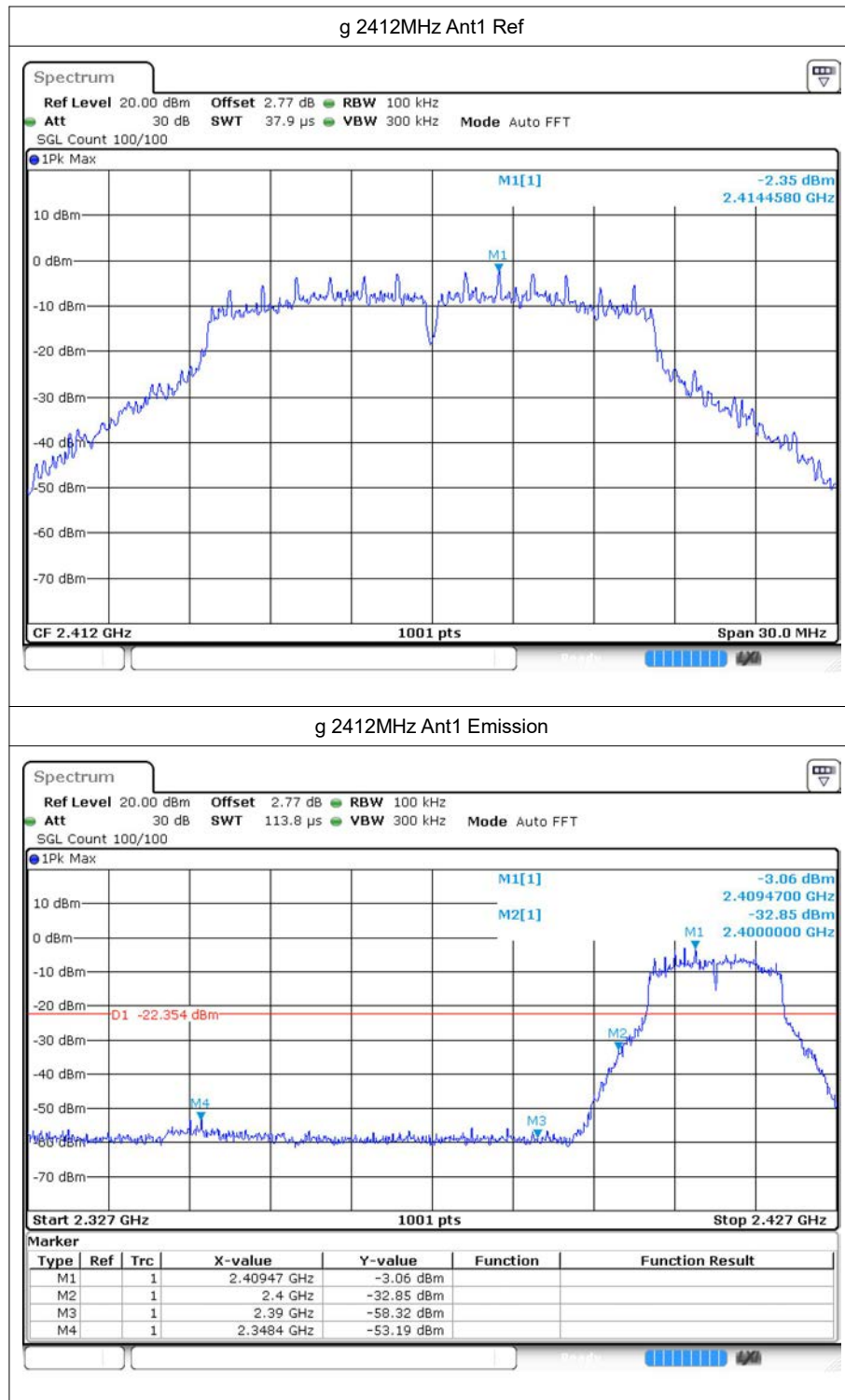
5.1 Test Result

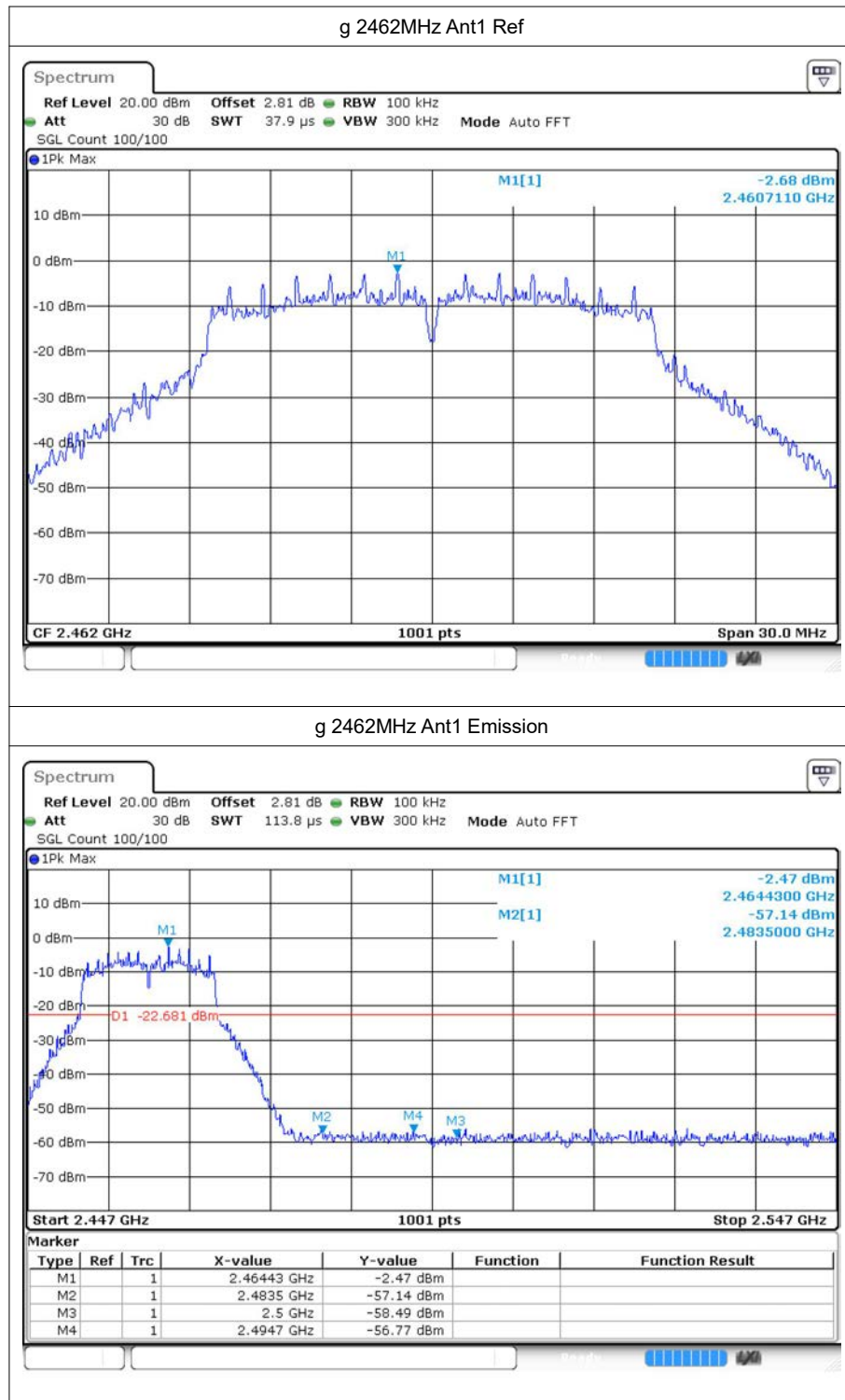
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-54.64	-20	Pass
b	2462	Ant1	-55.38	-20	Pass
g	2412	Ant1	-50.84	-20	Pass
g	2462	Ant1	-54.08	-20	Pass
n20	2412	Ant1	-52.27	-20	Pass
n20	2462	Ant1	-51.6	-20	Pass

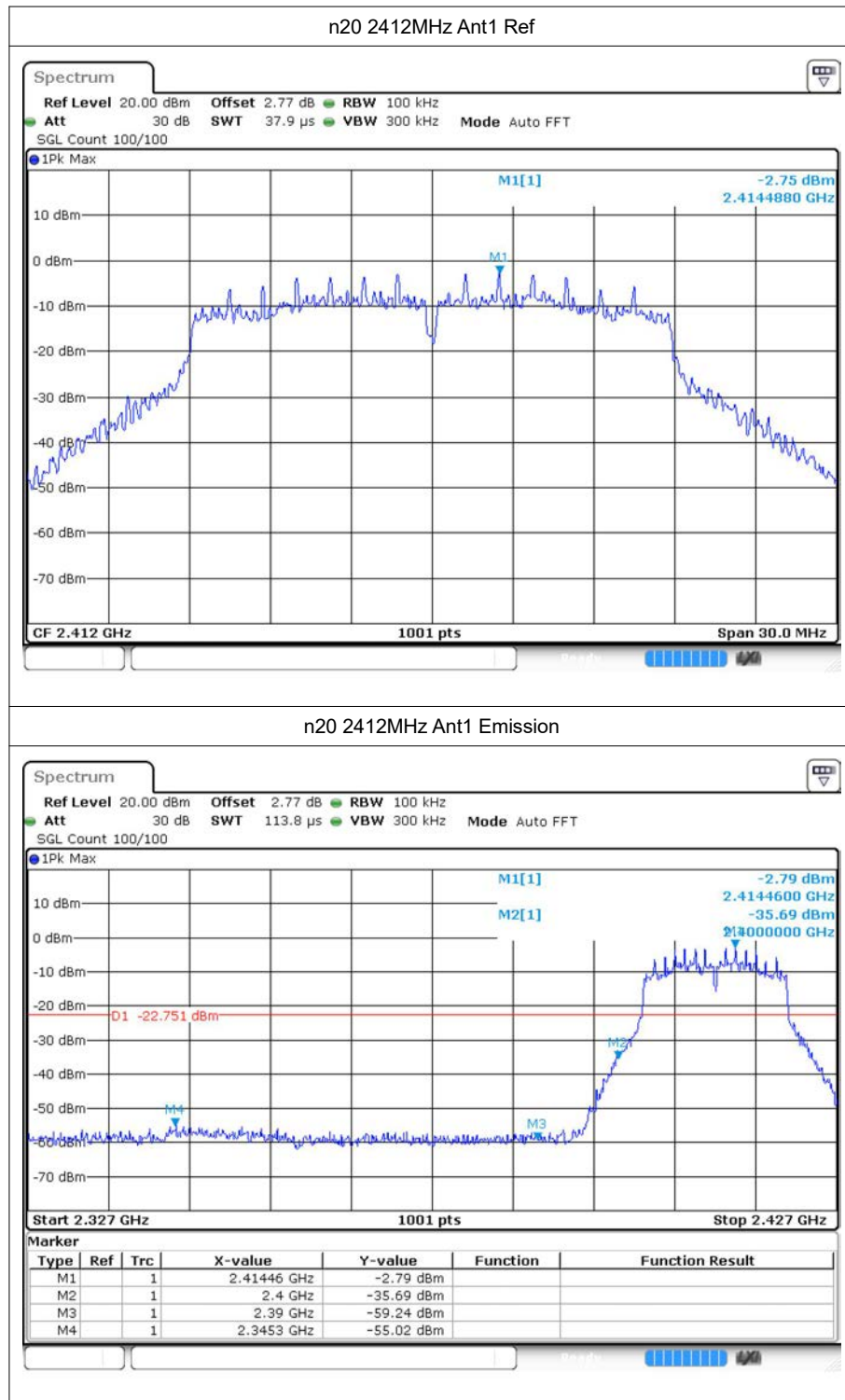
5.2 Test Graphs

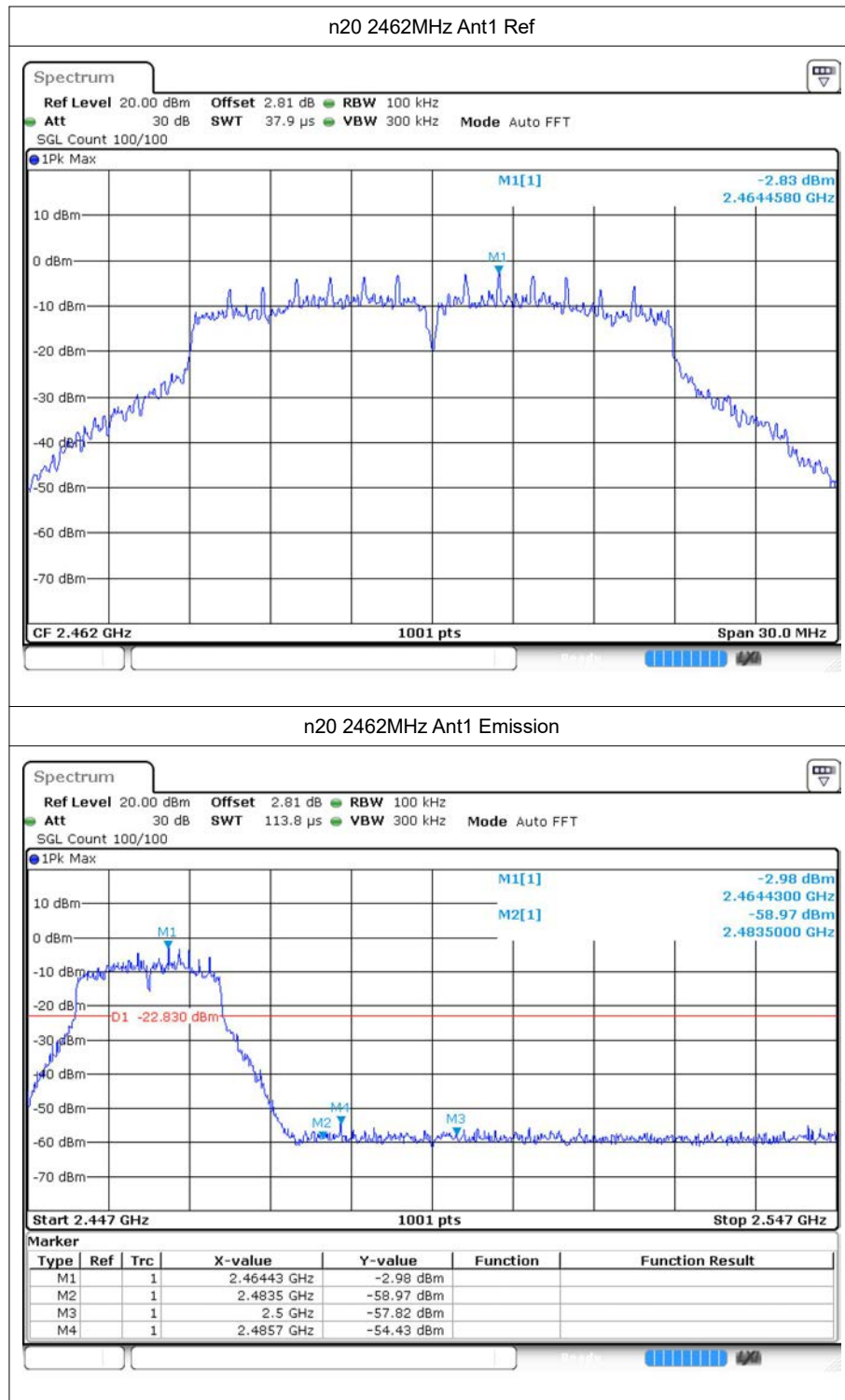












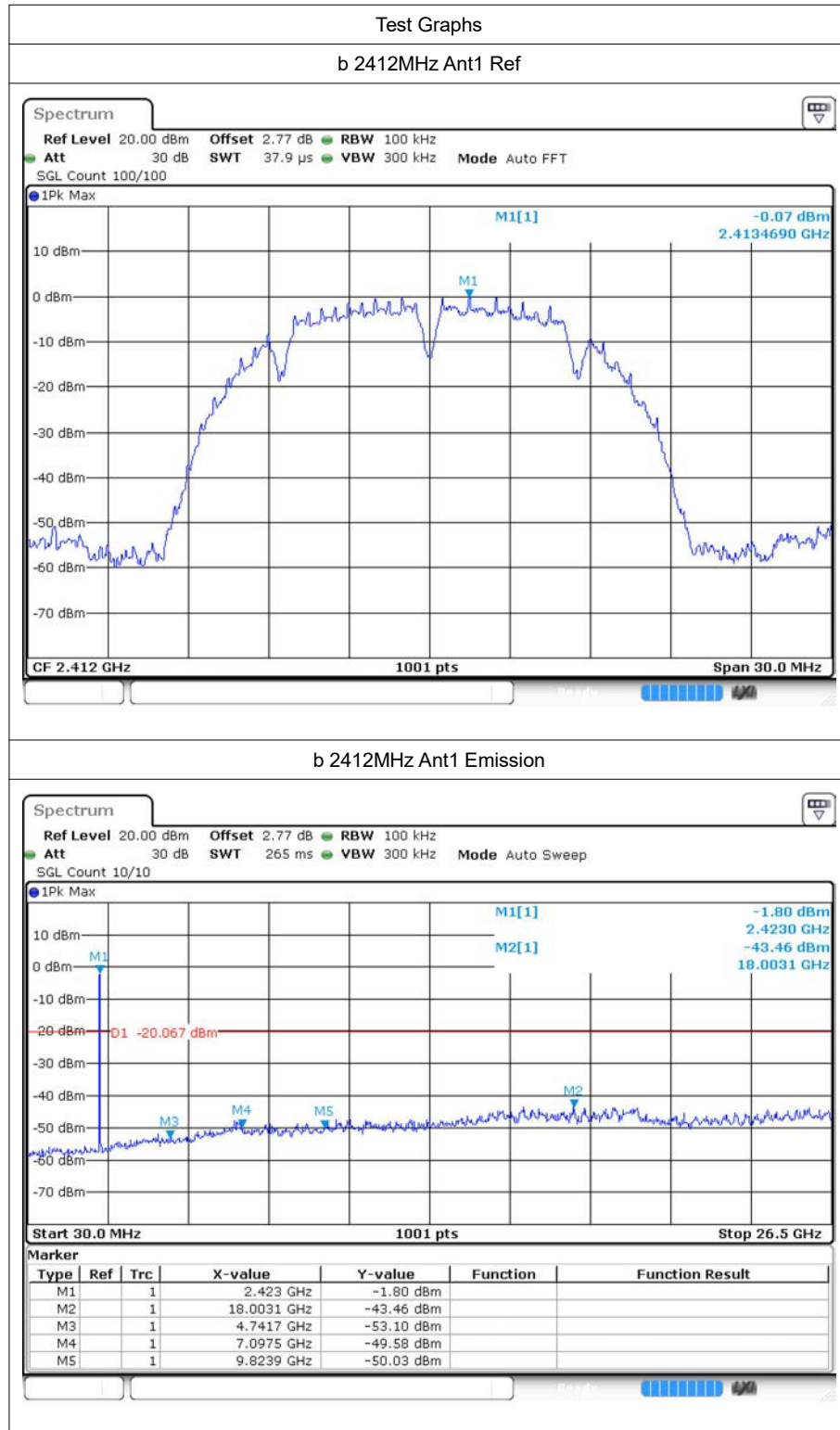


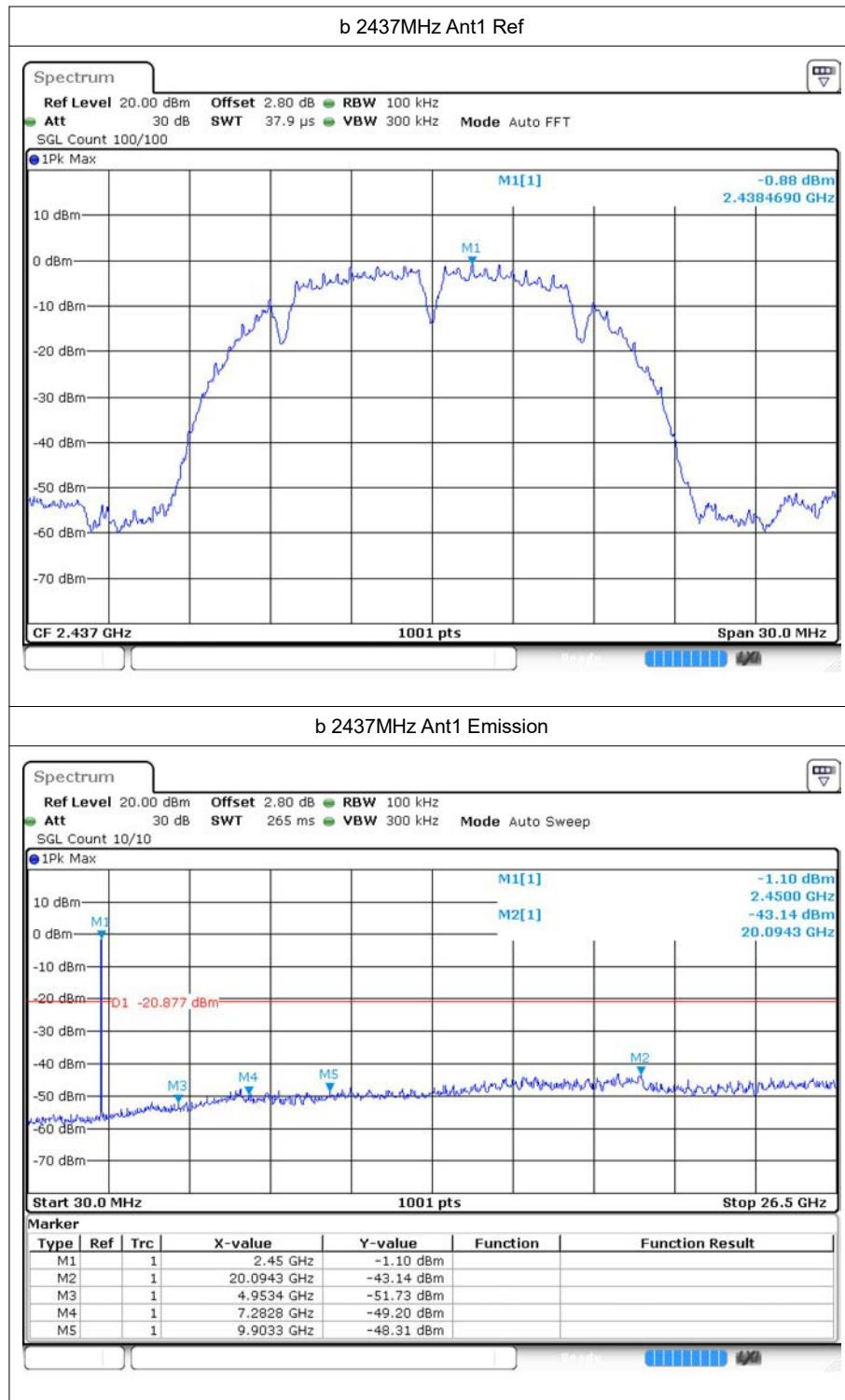
6 Conducted RF Spurious Emission

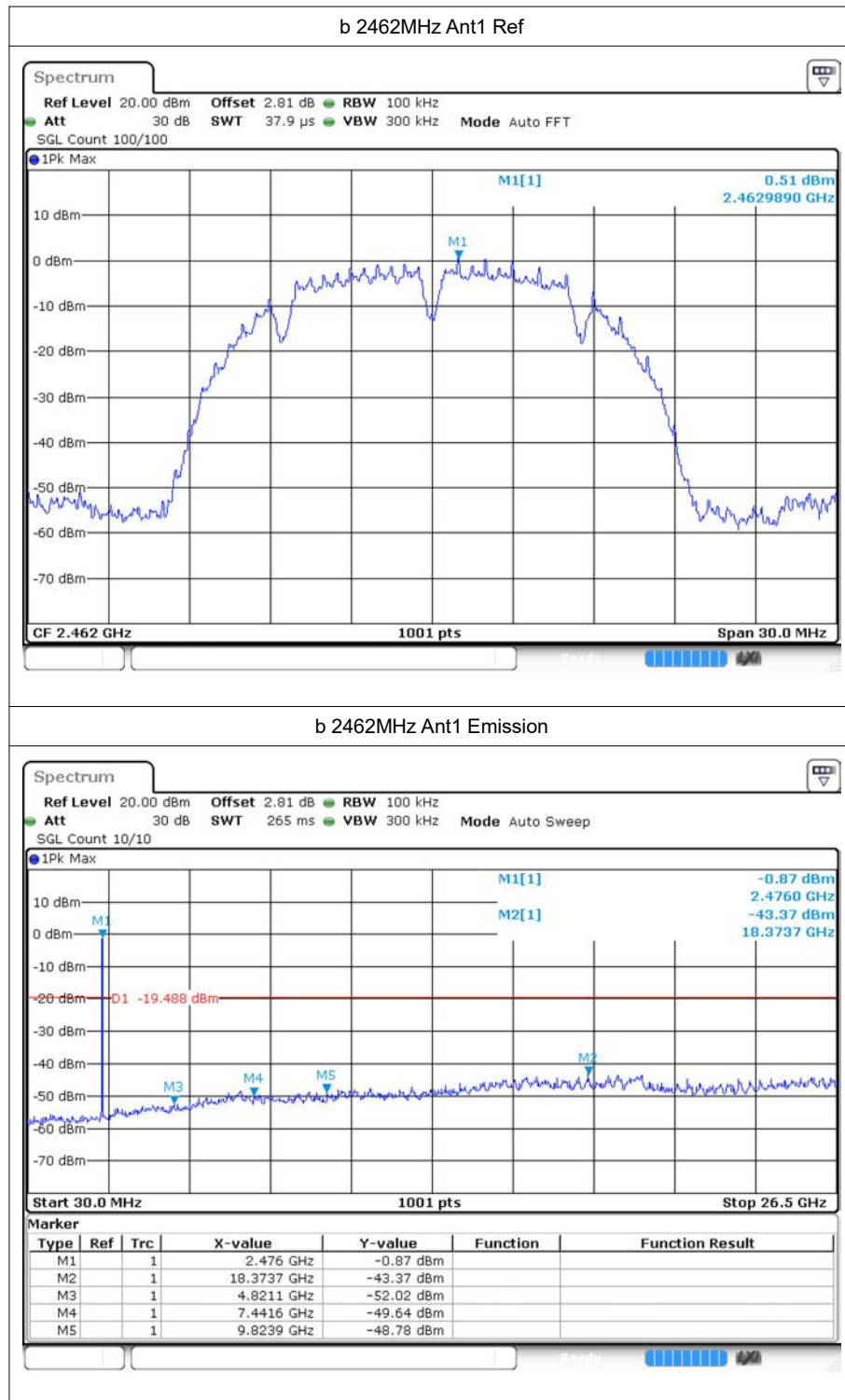
6.1 Test Result

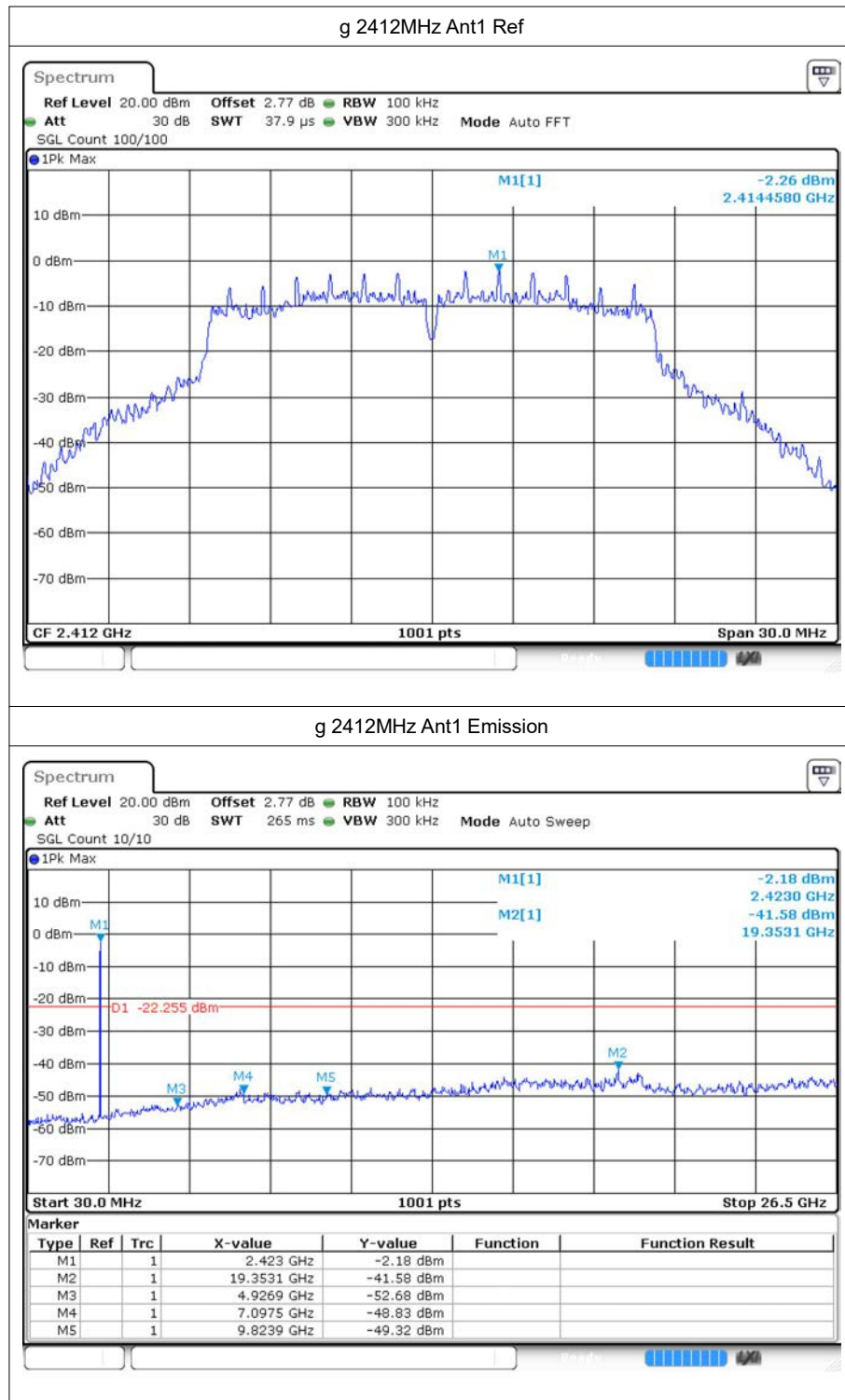
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-43.38	-20	Pass
b	2437	Ant1	-42.25	-20	Pass
b	2462	Ant1	-43.87	-20	Pass
g	2412	Ant1	-39.31	-20	Pass
g	2437	Ant1	-40.94	-20	Pass
g	2462	Ant1	-40.75	-20	Pass
n20	2412	Ant1	-40.32	-20	Pass
n20	2437	Ant1	-40.22	-20	Pass
n20	2462	Ant1	-39.22	-20	Pass

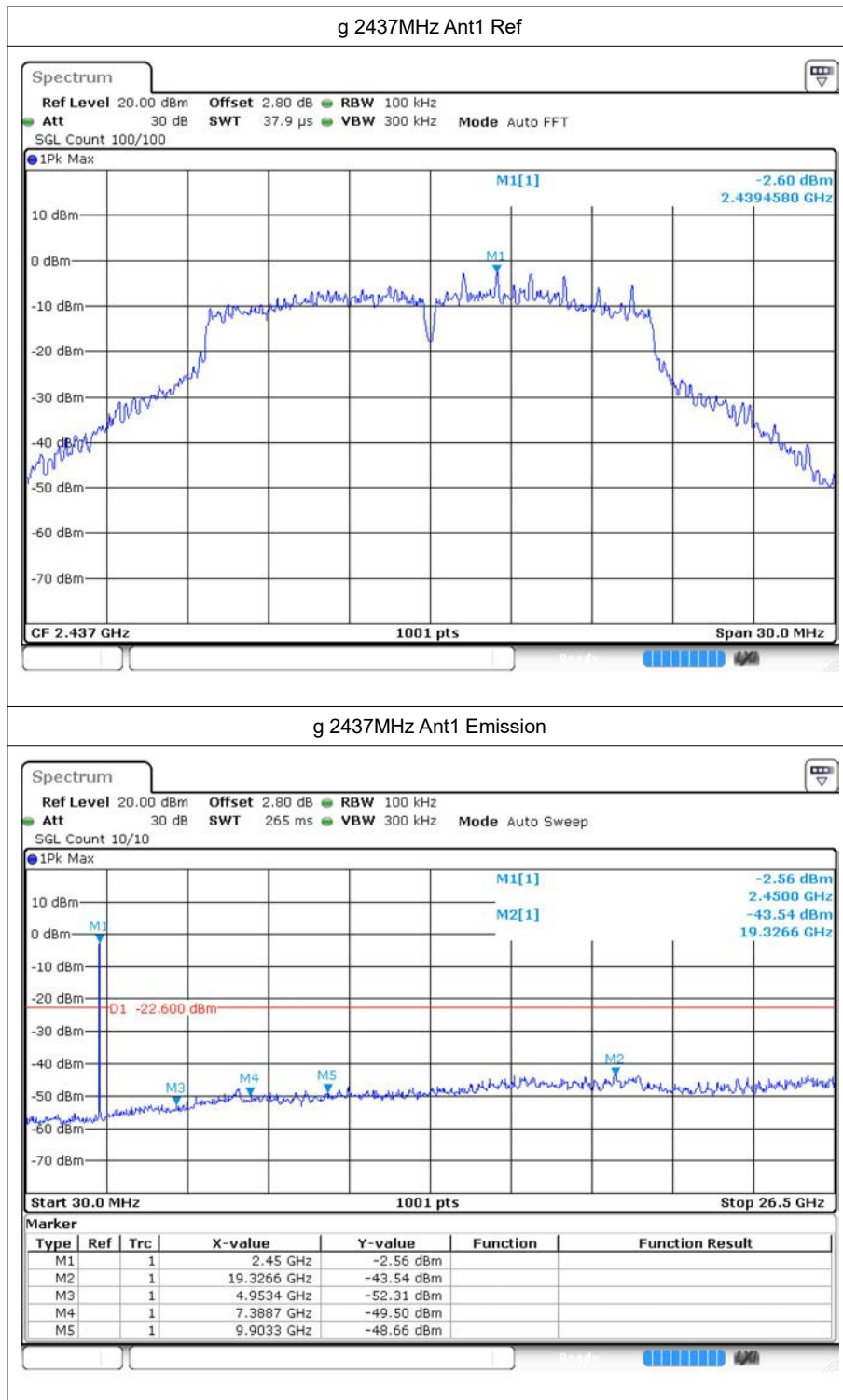
6.2 Test Graphs

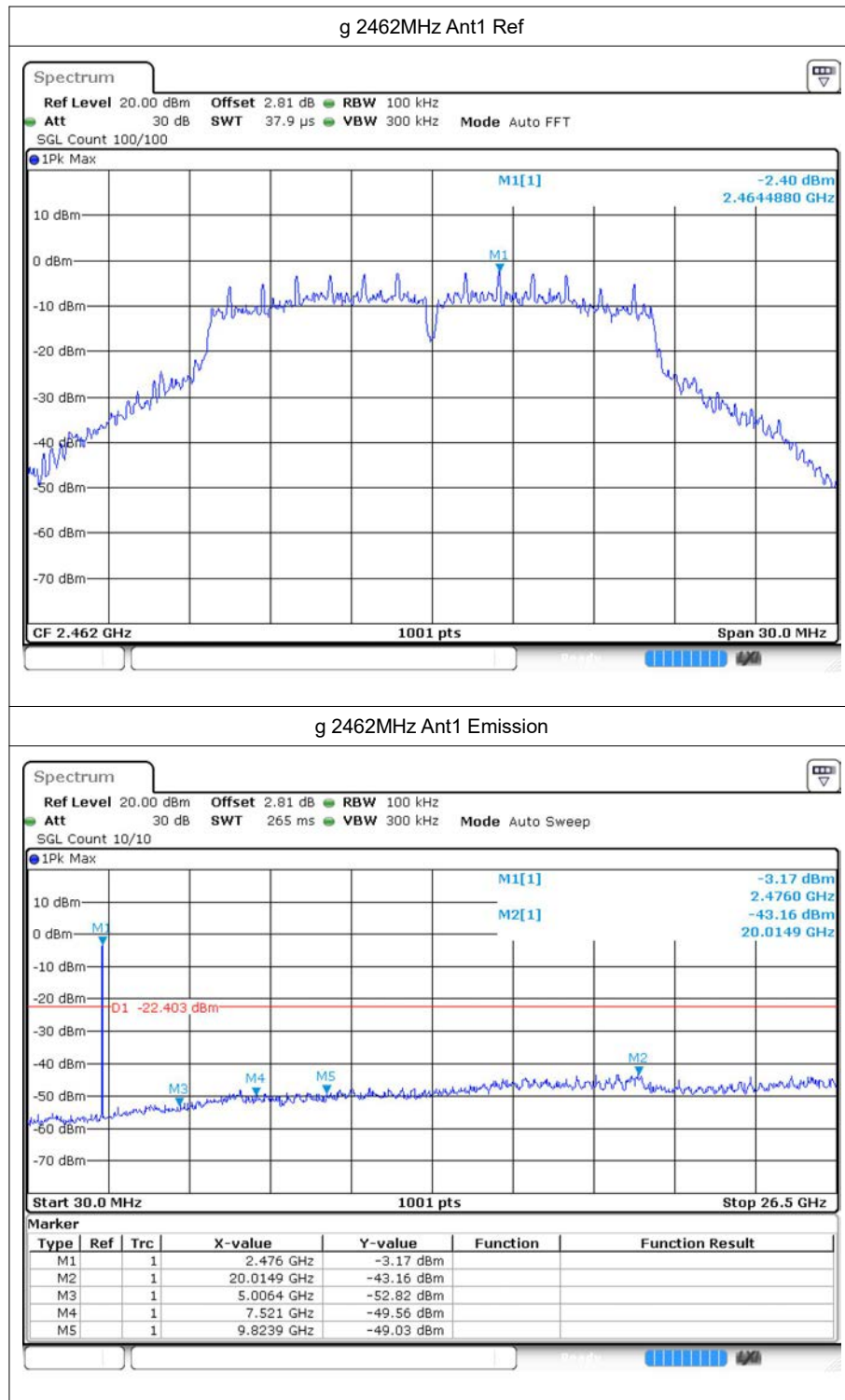


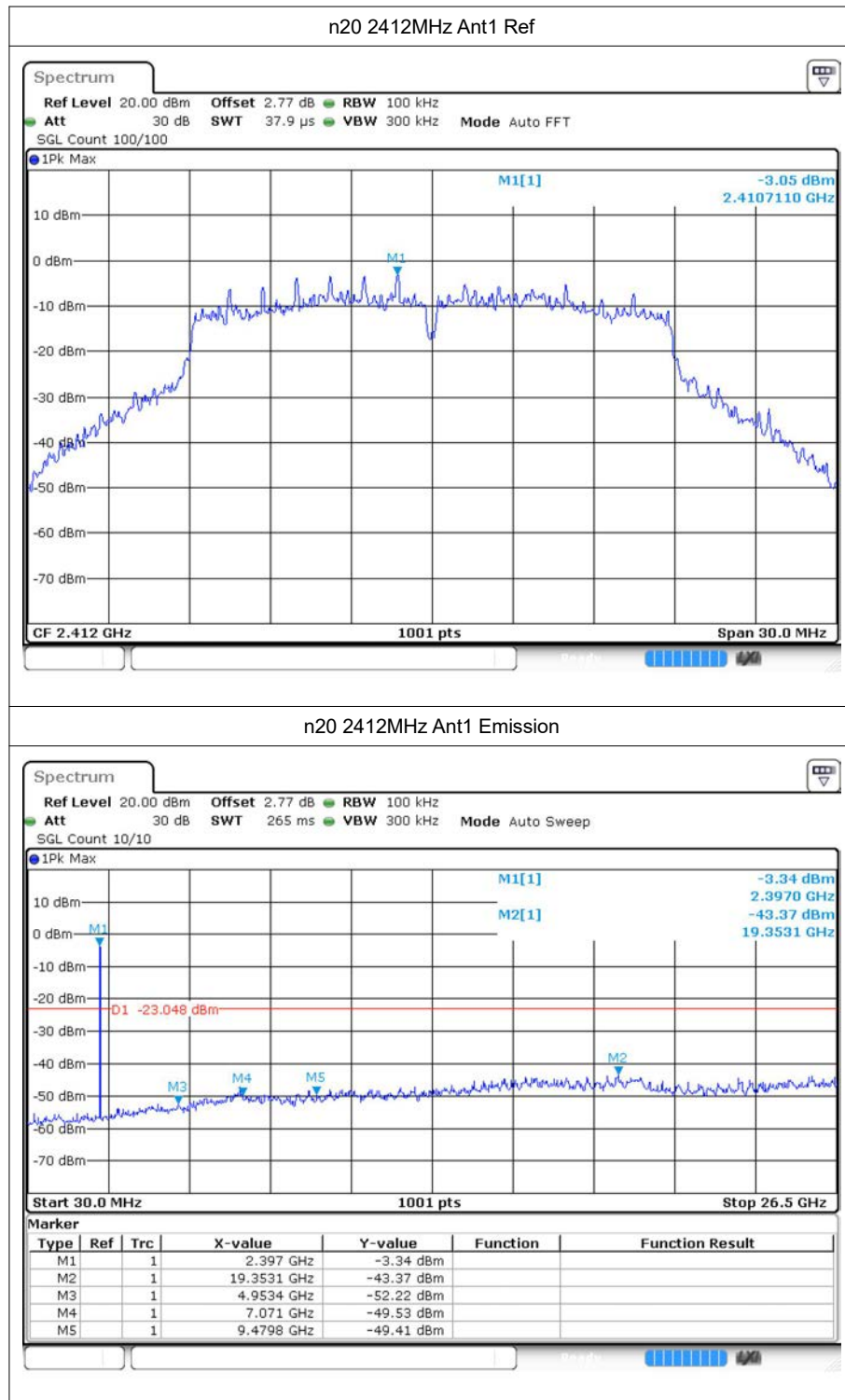


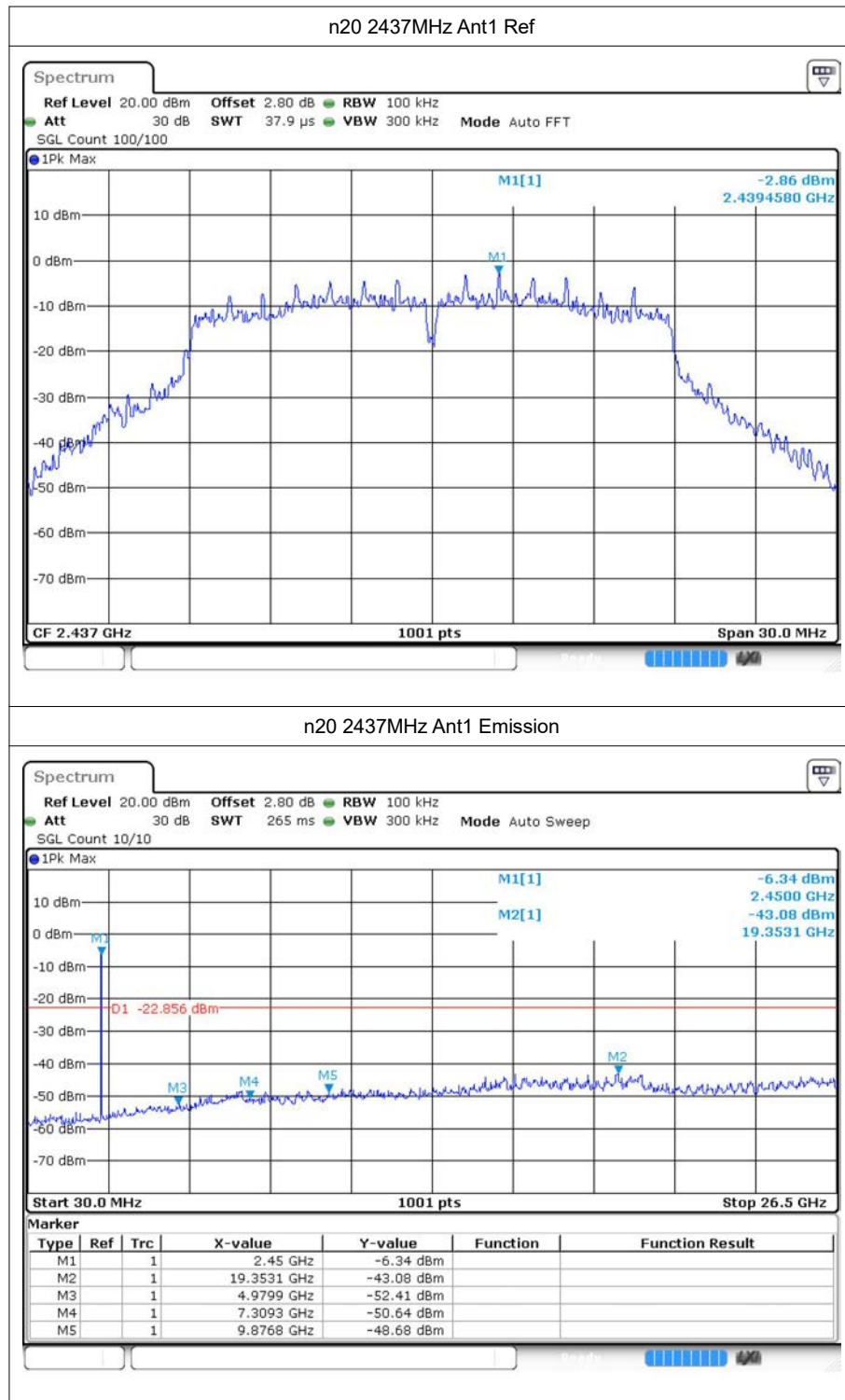


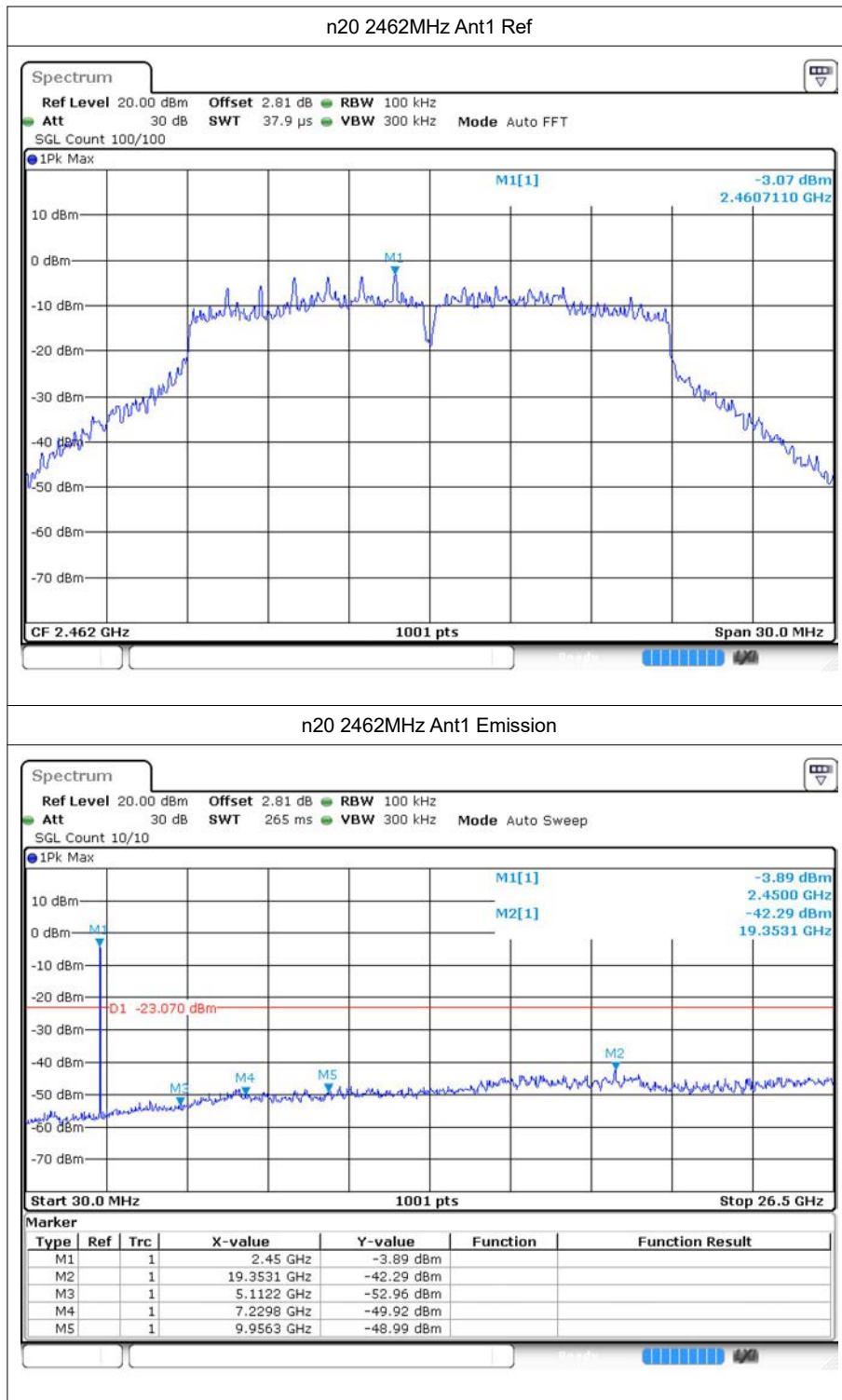














7 Restrict Band

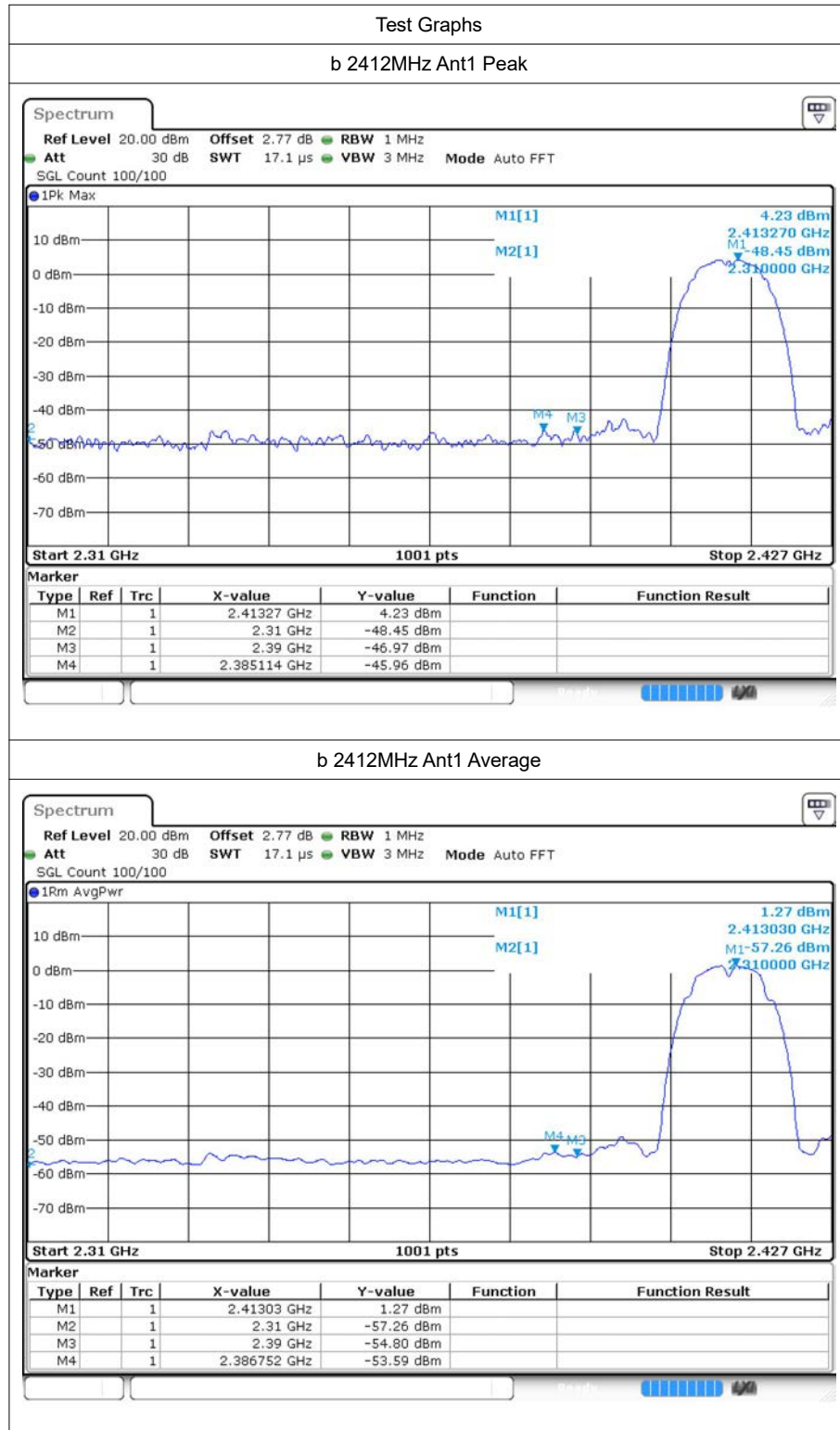
7.1 Test Result

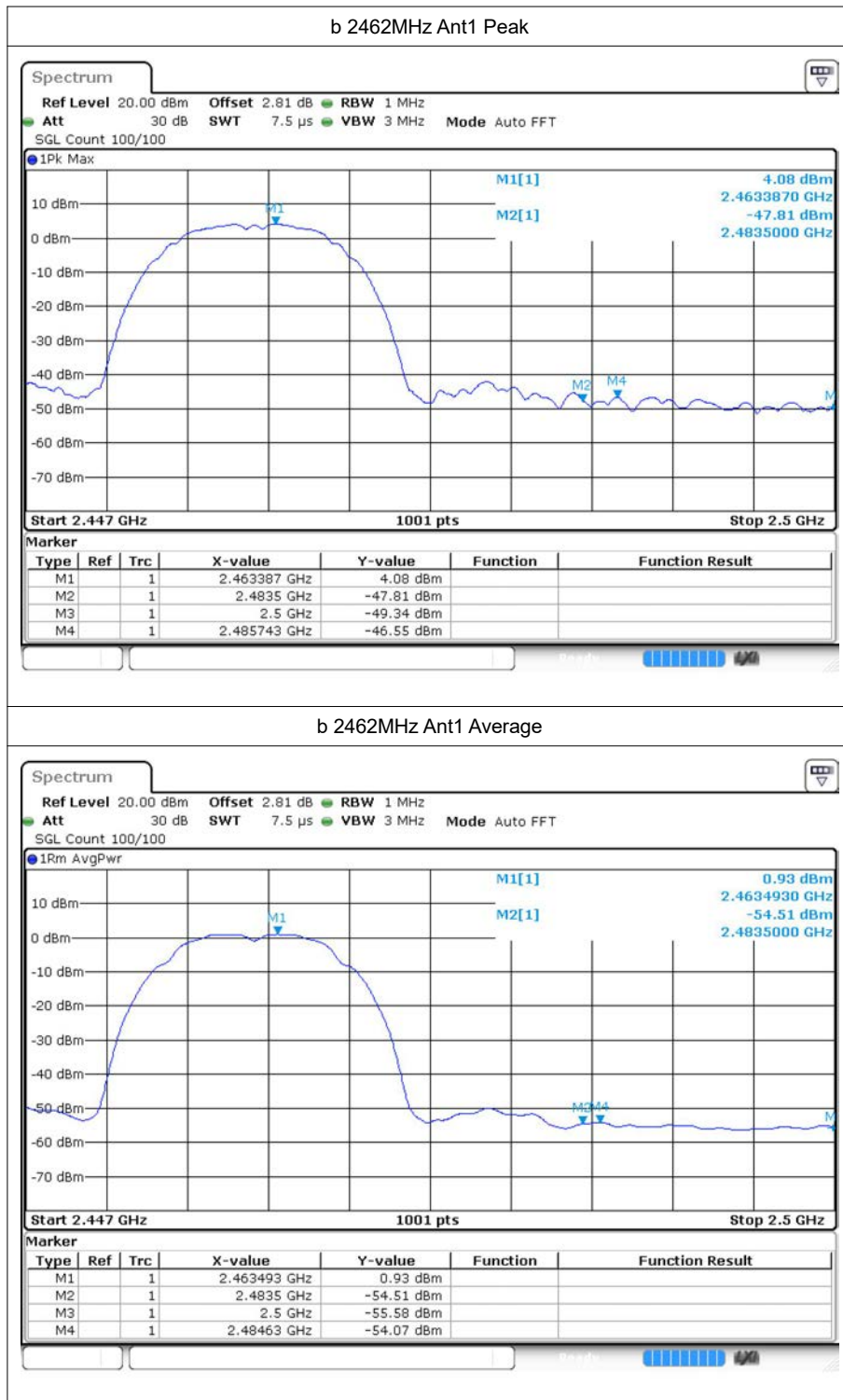
Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
b	2412	Ant1	2310	-48.45	3.35	-	50.16	Peak	74	Pass
b	2412	Ant1	2310	-57.26	3.35	0	41.35	Average	54	Pass
b	2412	Ant1	2385.114	-45.95	3.35	-	52.66	Peak	74	Pass
b	2412	Ant1	2386.752	-53.59	3.35	0	45.02	Average	54	Pass
b	2412	Ant1	2390	-46.97	3.35	-	51.64	Peak	74	Pass
b	2412	Ant1	2390	-54.8	3.35	0	43.81	Average	54	Pass
b	2462	Ant1	2483.5	-47.81	3.35	-	50.8	Peak	74	Pass
b	2462	Ant1	2483.5	-54.51	3.35	0	44.1	Average	54	Pass
b	2462	Ant1	2485.743	-46.54	3.35	-	52.07	Peak	74	Pass
b	2462	Ant1	2484.63	-54.06	3.35	0	44.55	Average	54	Pass
b	2462	Ant1	2500	-49.34	3.35	-	49.27	Peak	74	Pass
b	2462	Ant1	2500	-55.58	3.35	0	43.03	Average	54	Pass
g	2412	Ant1	2310	-48.63	3.35	-	49.98	Peak	74	Pass
g	2412	Ant1	2310	-56.77	3.35	0.61	42.45	Average	54	Pass
g	2412	Ant1	2337.963	-46.39	3.35	-	52.22	Peak	74	Pass
g	2412	Ant1	2337.261	-53.96	3.35	0.61	45.26	Average	54	Pass
g	2412	Ant1	2390	-48.03	3.35	-	51.64	Peak	74	Pass
g	2412	Ant1	2390	-56.72	3.35	0.61	42.5	Average	54	Pass
g	2462	Ant1	2483.5	-50.75	3.35	-	47.86	Peak	74	Pass
g	2462	Ant1	2483.5	-56.65	3.35	0.61	42.57	Average	54	Pass
g	2462	Ant1	2485.743	-46.9	3.35	-	51.71	Peak	74	Pass
g	2462	Ant1	2485.16	-55.34	3.35	0.61	43.88	Average	54	Pass
g	2462	Ant1	2500	-50.48	3.35	-	49.27	Peak	74	Pass
g	2462	Ant1	2500	-56.02	3.35	0.61	43.2	Average	54	Pass
n20	2412	Ant1	2310	-49.06	3.35	-	49.55	Peak	74	Pass
n20	2412	Ant1	2310	-56.62	3.35	0.58	42.57	Average	54	Pass
n20	2412	Ant1	2348.025	-45.91	3.35	-	52.7	Peak	74	Pass
n20	2412	Ant1	2337.963	-54.32	3.35	0.58	44.87	Average	54	Pass
n20	2412	Ant1	2390	-48.69	3.35	-	49.92	Peak	74	Pass
n20	2412	Ant1	2390	-56.29	3.35	0.58	42.9	Average	54	Pass
n20	2462	Ant1	2483.5	-49.17	3.35	-	49.44	Peak	74	Pass
n20	2462	Ant1	2483.5	-56.94	3.35	0.58	42.25	Average	54	Pass
n20	2462	Ant1	2495.972	-46.8	3.35	-	51.81	Peak	74	Pass
n20	2462	Ant1	2484.842	-55.58	3.35	0.58	43.61	Average	54	Pass



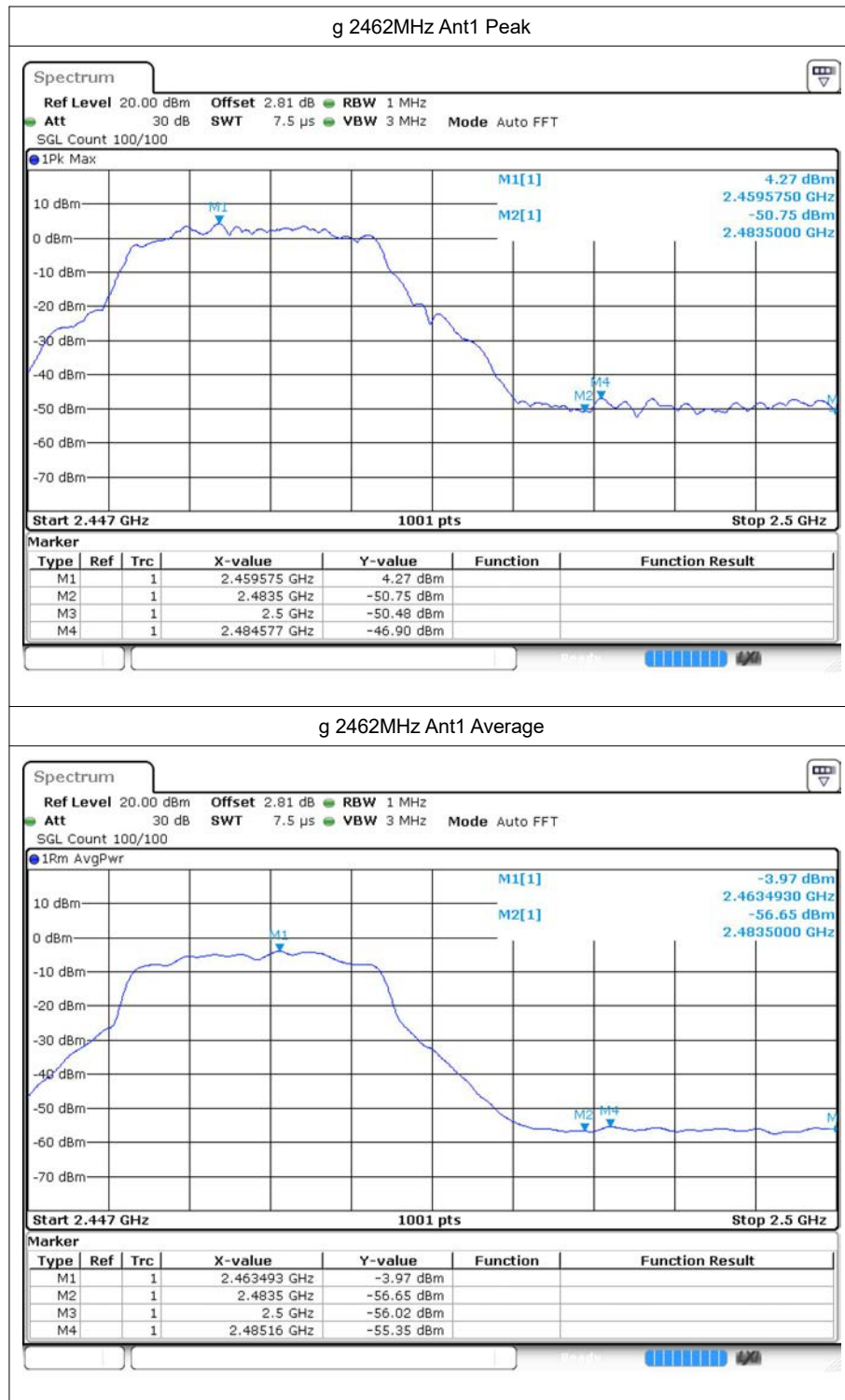
n20	2462	Ant1	2500	-49.77	3.35	-	48.84	Peak	74	Pass
n20	2462	Ant1	2500	-55.75	3.35	0.58	43.44	Average	54	Pass

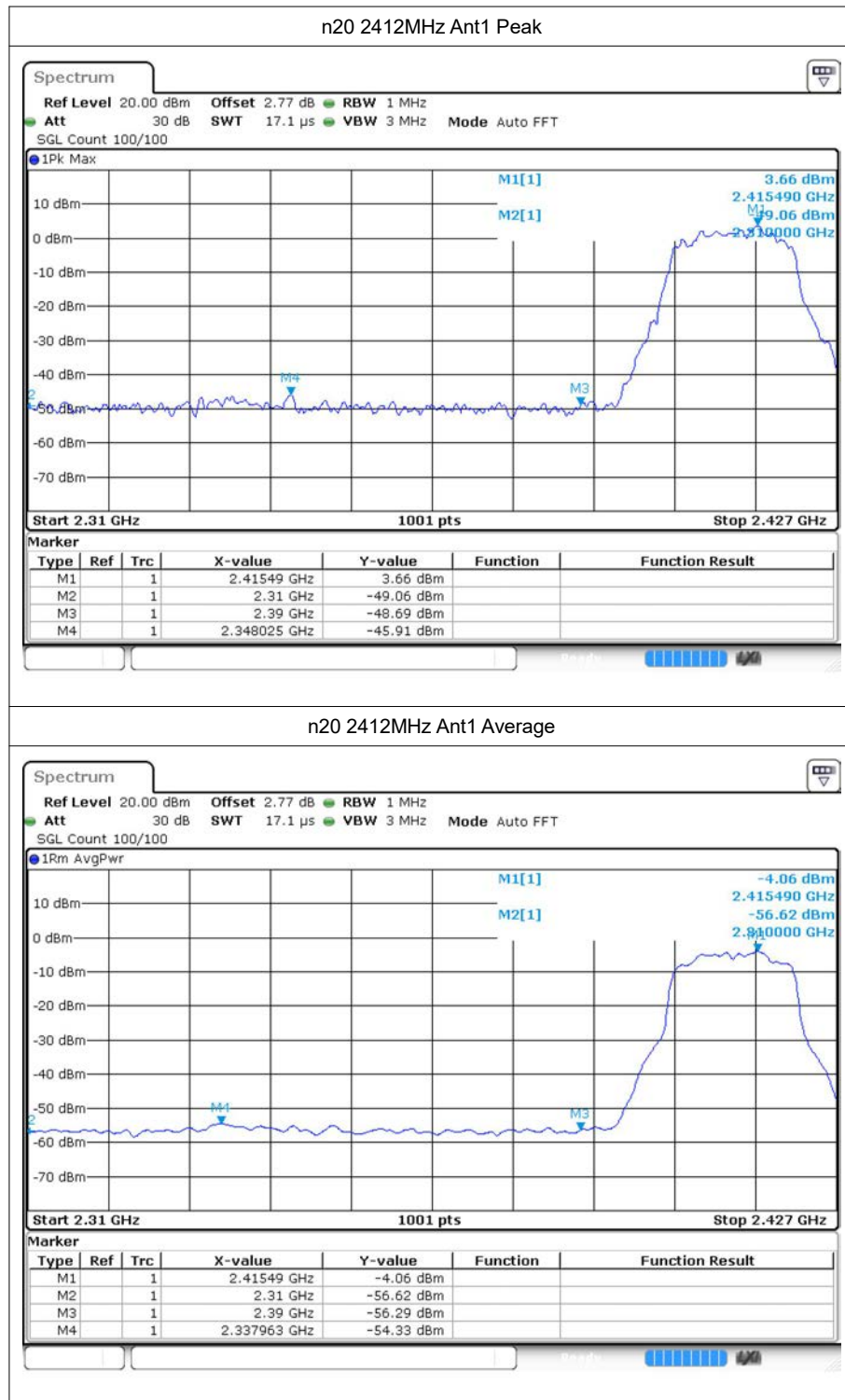
7.2 Test Graphs

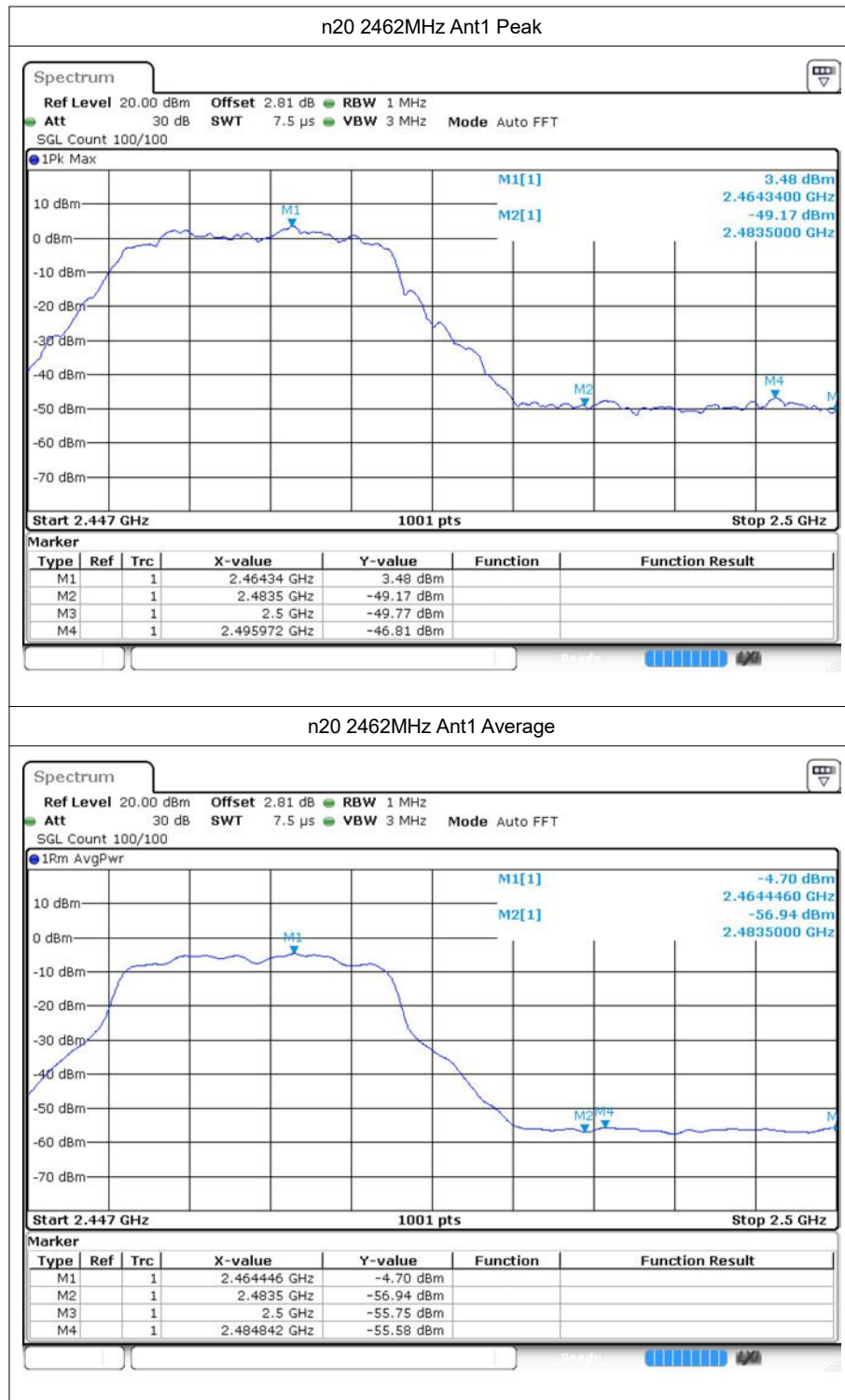












---The End---