



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Carplay/Carplay dash camera

Trade Mark: N/A

Test Model: RC13

Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Simba Huang
Supervised by:	Seal Chen



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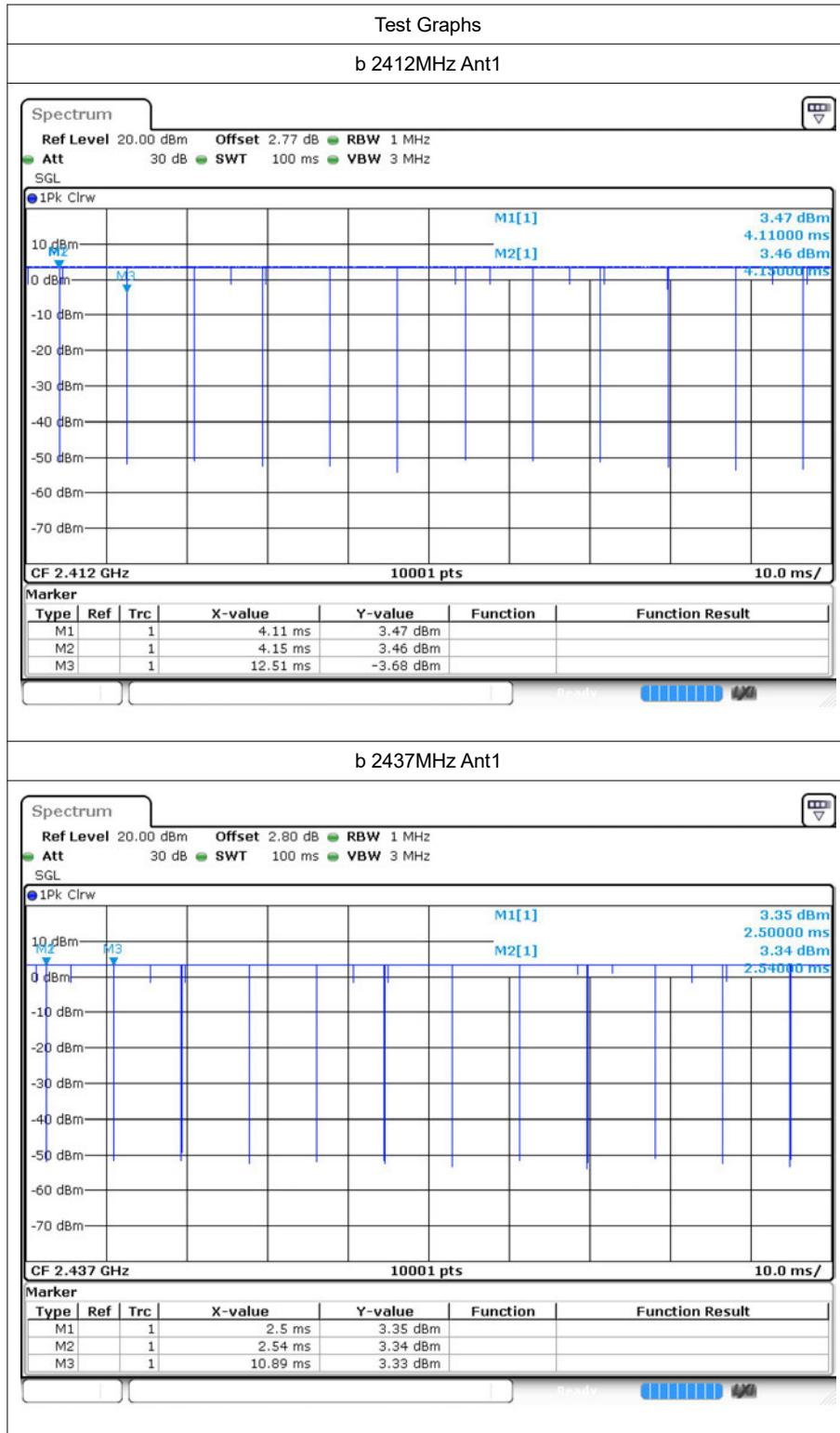


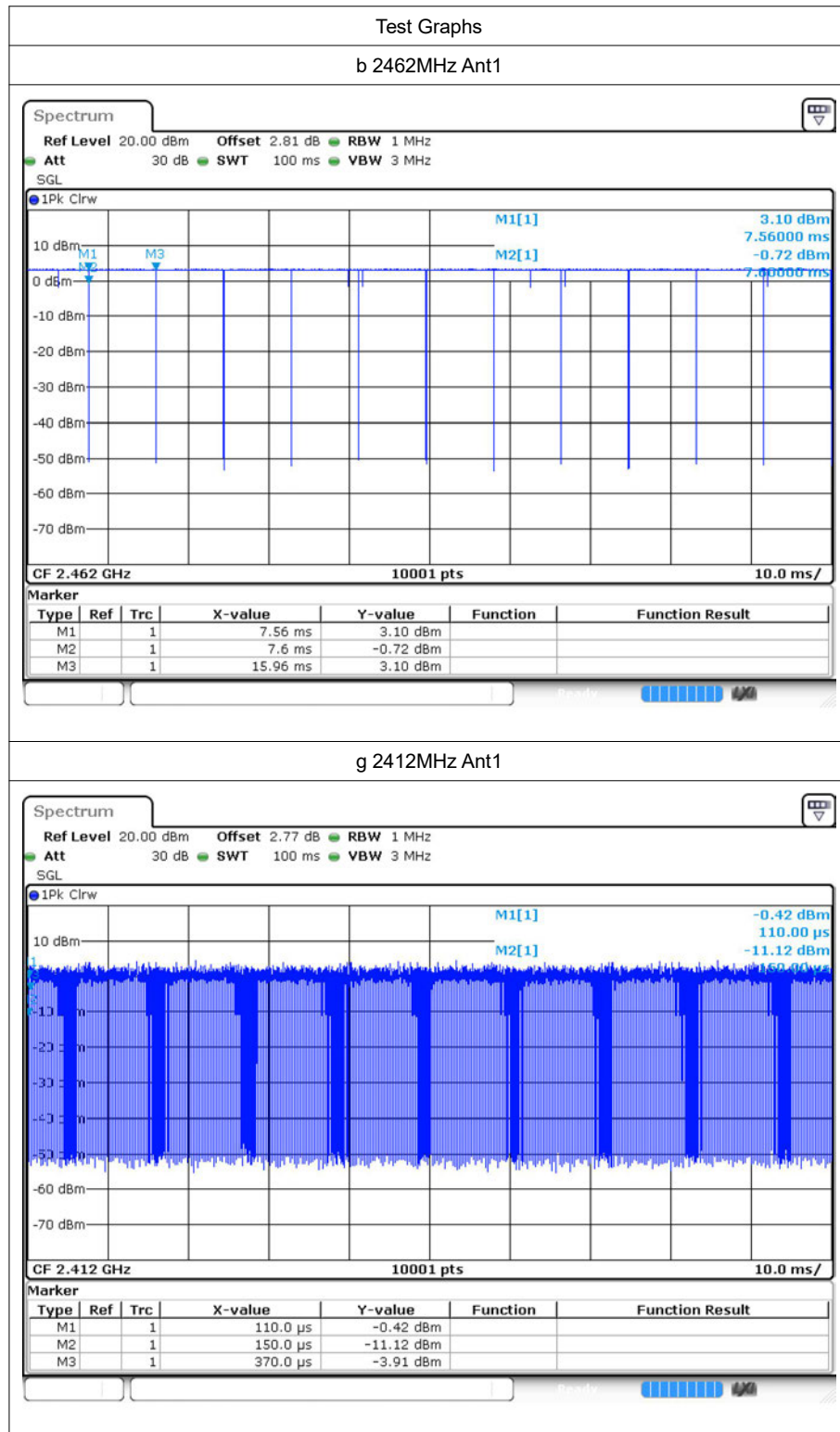
1 Duty Cycle

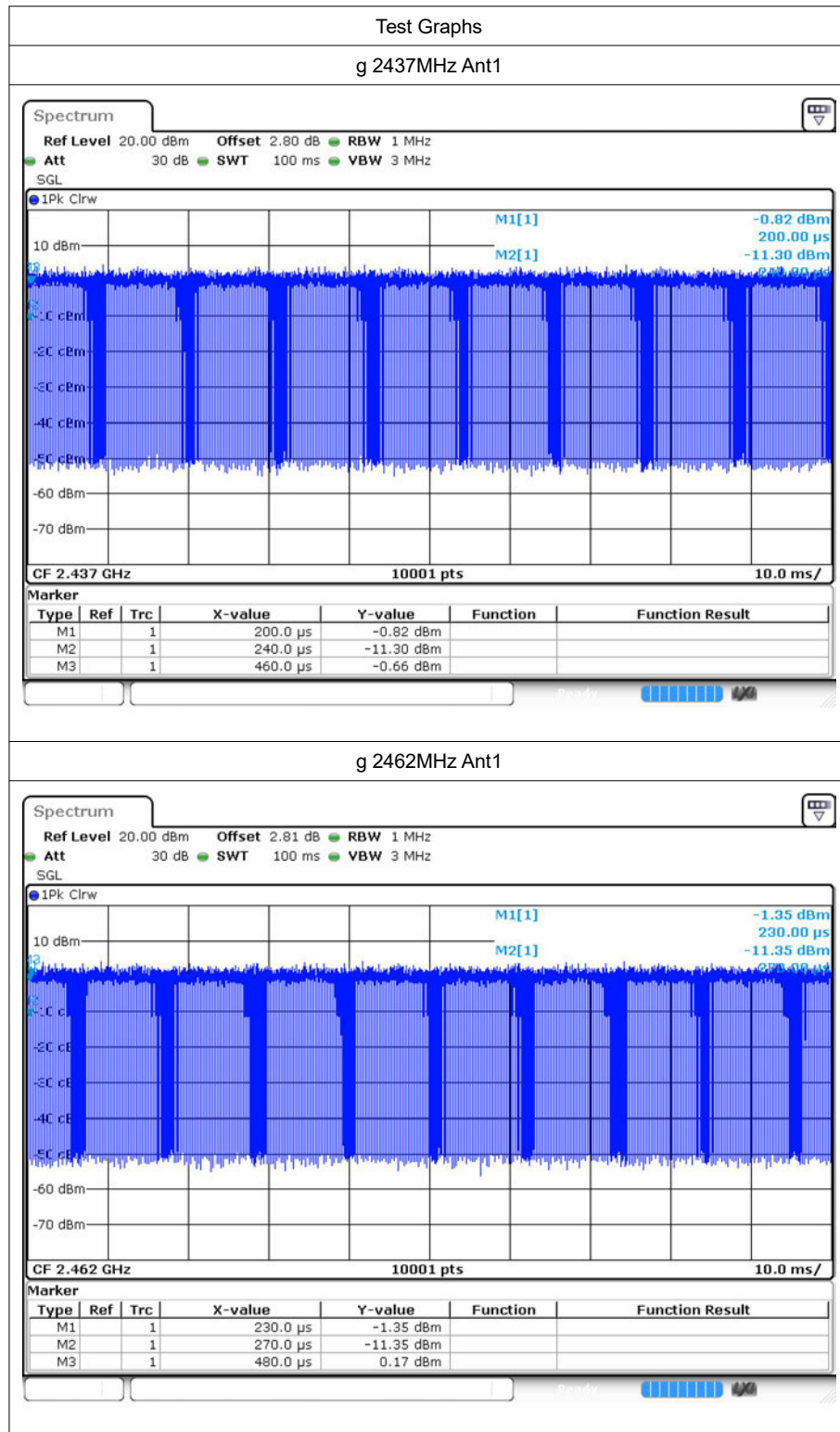
1.1 Test Result

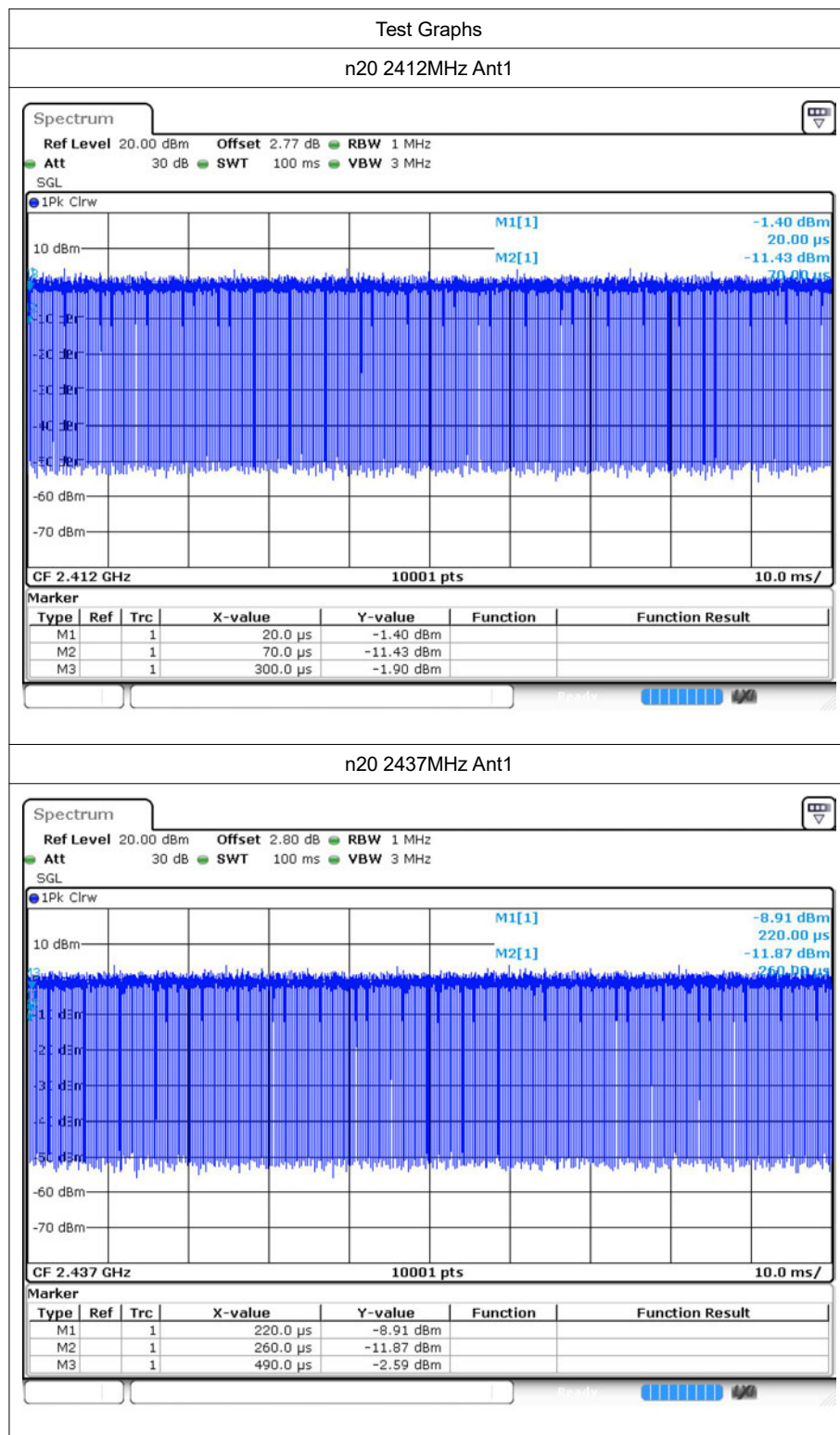
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	1/T (kHz)	Duty Cycle Factor (dB)
b	2412	Ant1	99.62	0.12	--
b	2437	Ant1	99.61	0.12	--
b	2462	Ant1	99.6	0.12	--
g	2412	Ant1	86.92	4.55	0.61
g	2437	Ant1	87.02	4.55	0.60
g	2462	Ant1	86.89	4.76	0.61
n20	2412	Ant1	87.54	4.35	0.58
n20	2437	Ant1	87.59	4.35	0.58
n20	2462	Ant1	87.56	4.35	0.58

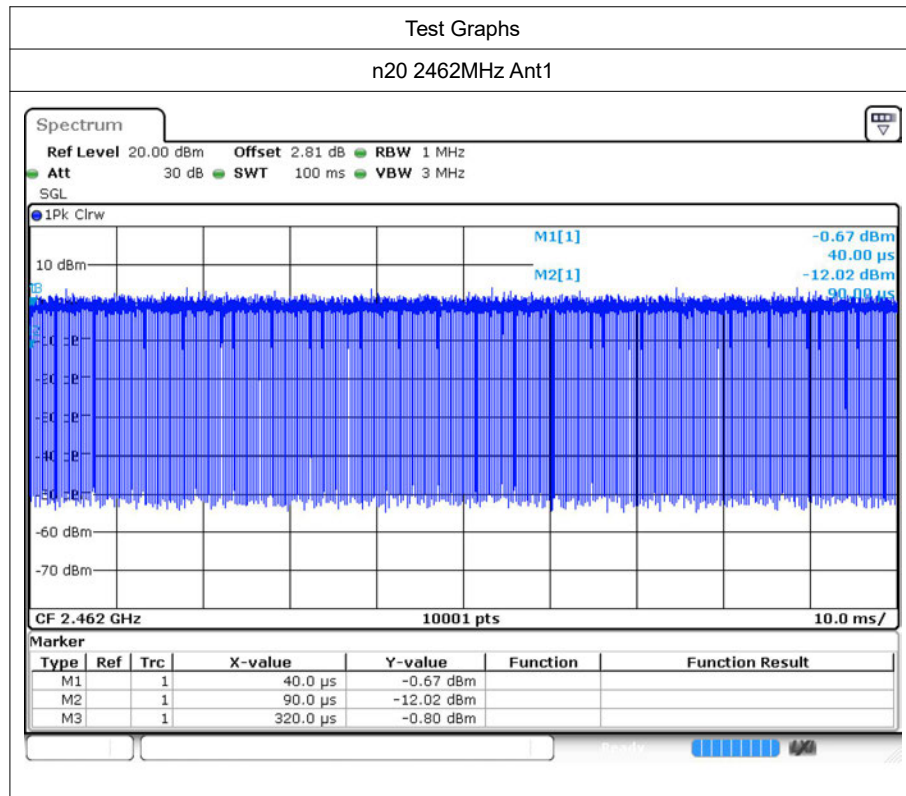
1.2 Test Graphs













2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant1	13.98	30	Pass
b	2437	Ant1	13.8	30	Pass
b	2462	Ant1	13.66	30	Pass
g	2412	Ant1	13.65	30	Pass
g	2437	Ant1	13.61	30	Pass
g	2462	Ant1	13.45	30	Pass
n20	2412	Ant1	13.07	30	Pass
n20	2437	Ant1	12.89	30	Pass
n20	2462	Ant1	12.79	30	Pass

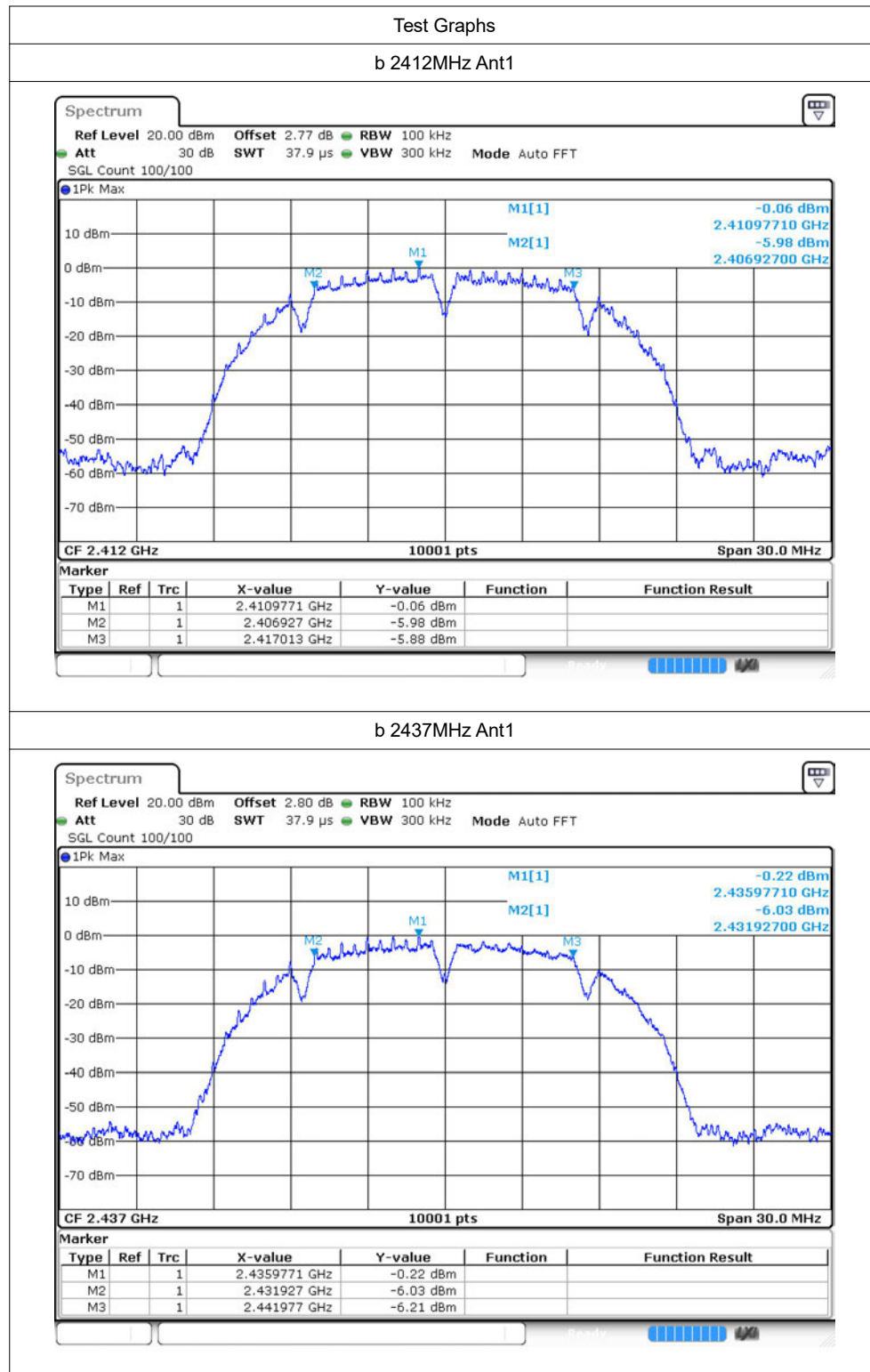


3 -6dB Bandwidth

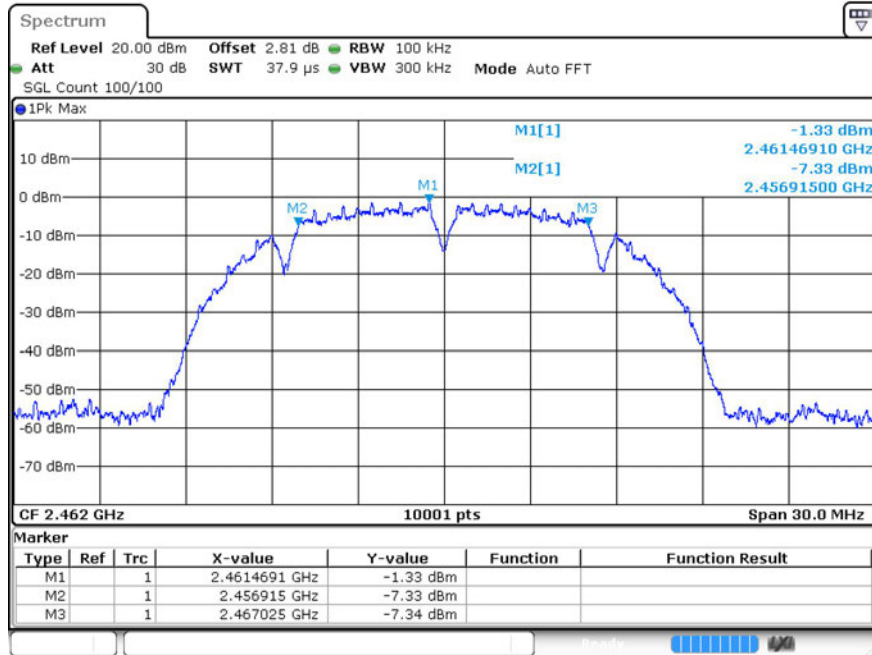
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	10.086	0.5	Pass
b	2437	Ant1	10.05	0.5	Pass
b	2462	Ant1	10.11	0.5	Pass
g	2412	Ant1	15.111	0.5	Pass
g	2437	Ant1	15.114	0.5	Pass
g	2462	Ant1	15.114	0.5	Pass
n20	2412	Ant1	15.12	0.5	Pass
n20	2437	Ant1	15.114	0.5	Pass
n20	2462	Ant1	15.111	0.5	Pass

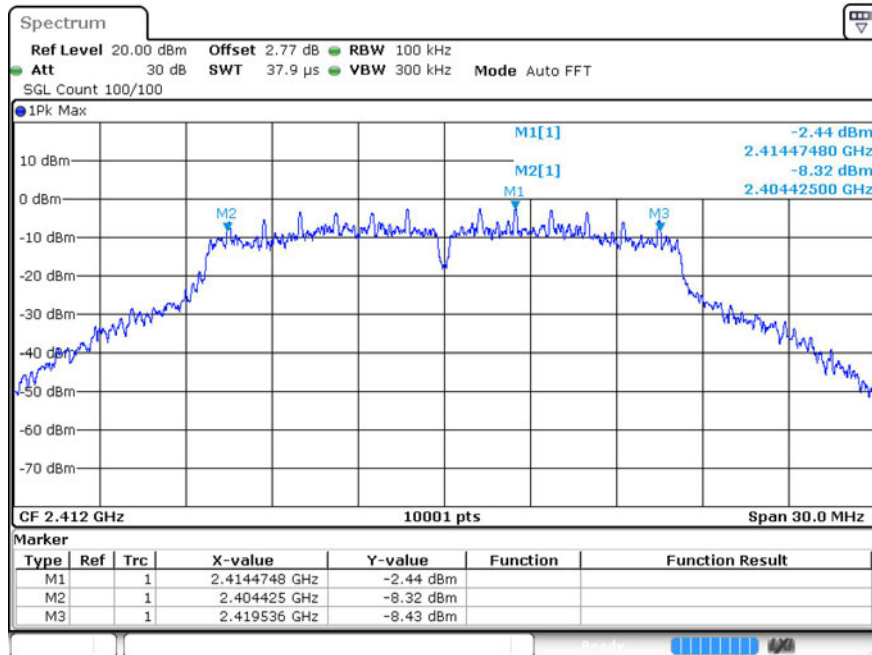
3.2 Test Graphs



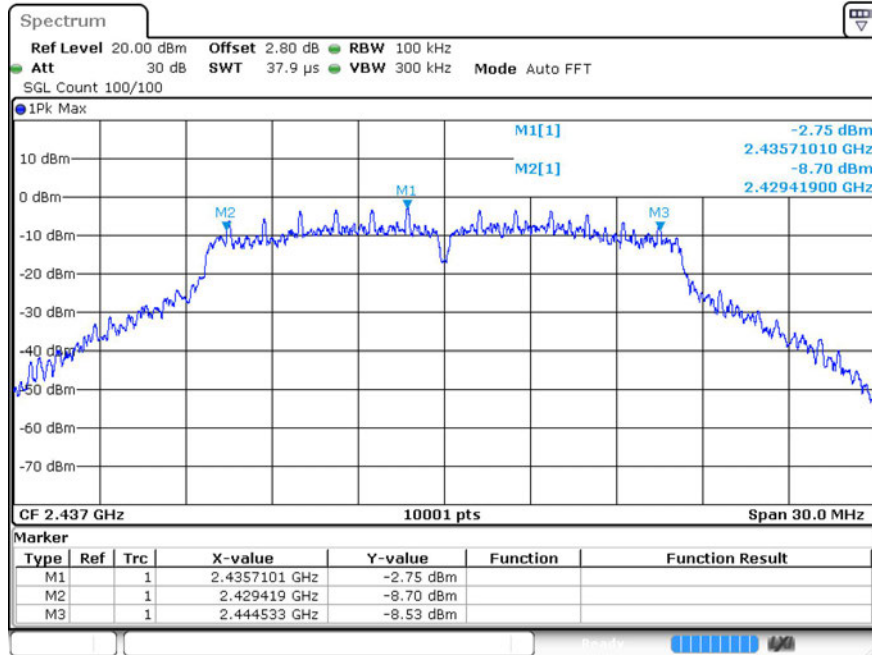
b 2462MHz Ant1



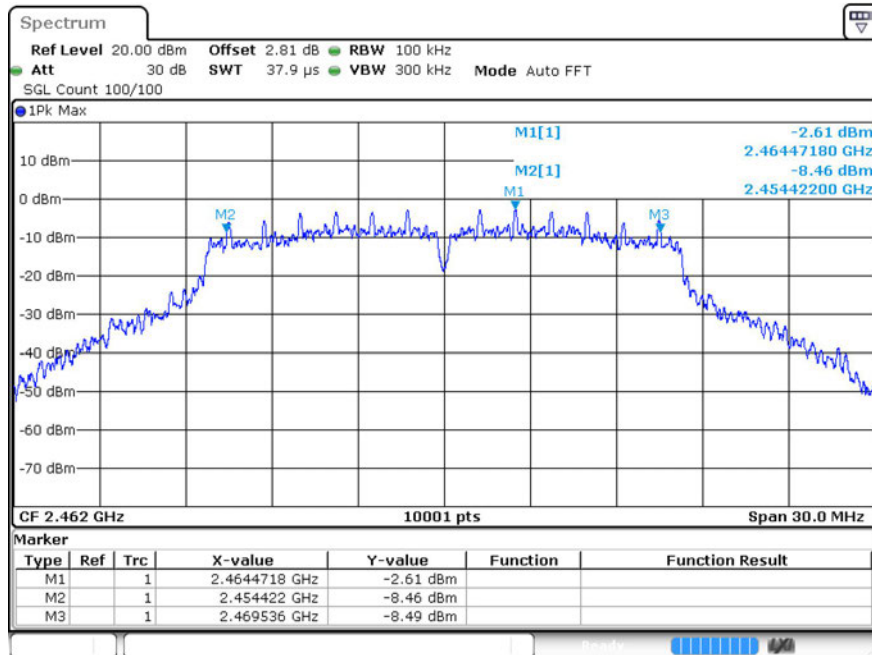
g 2412MHz Ant1



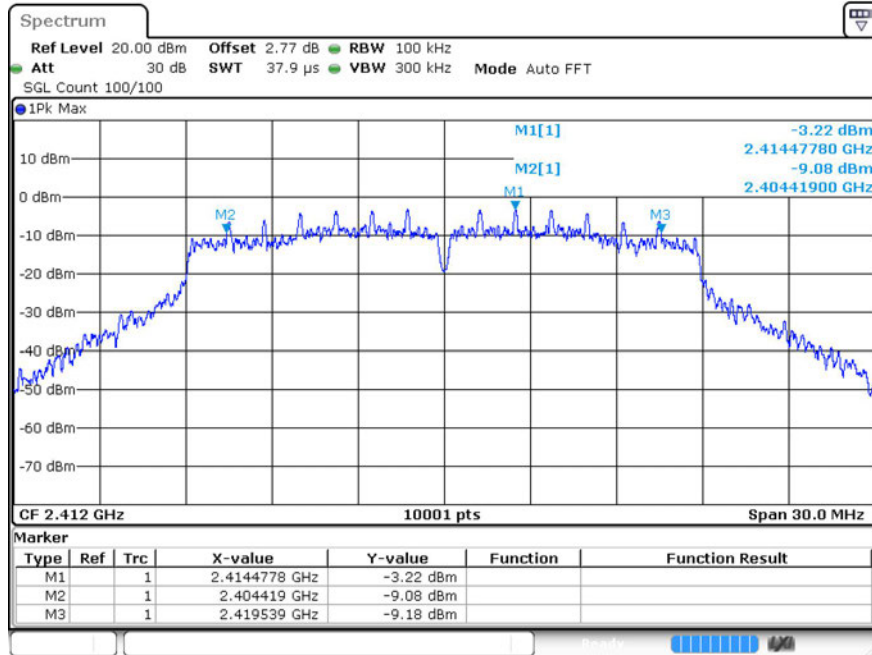
g 2437MHz Ant1



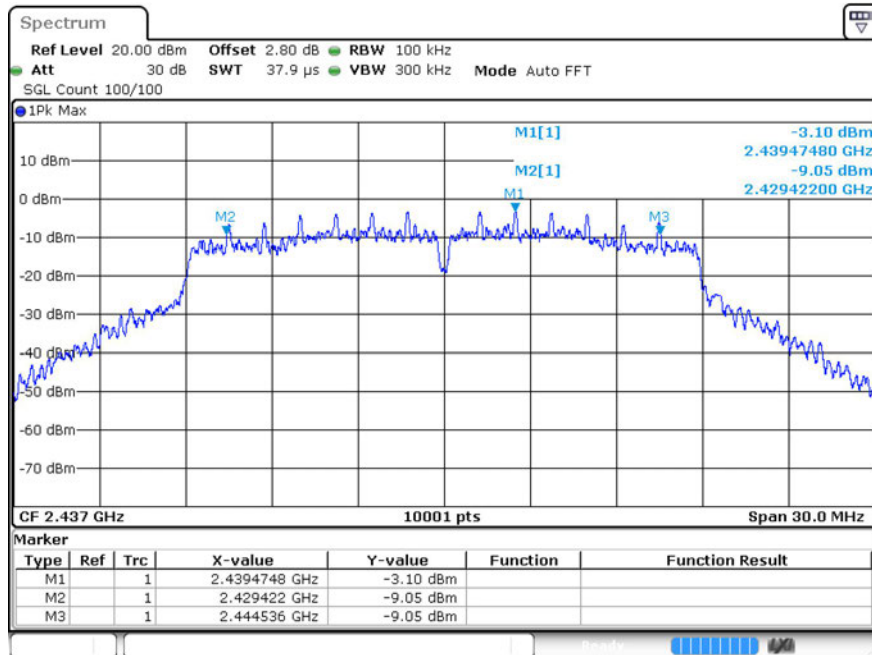
g 2462MHz Ant1

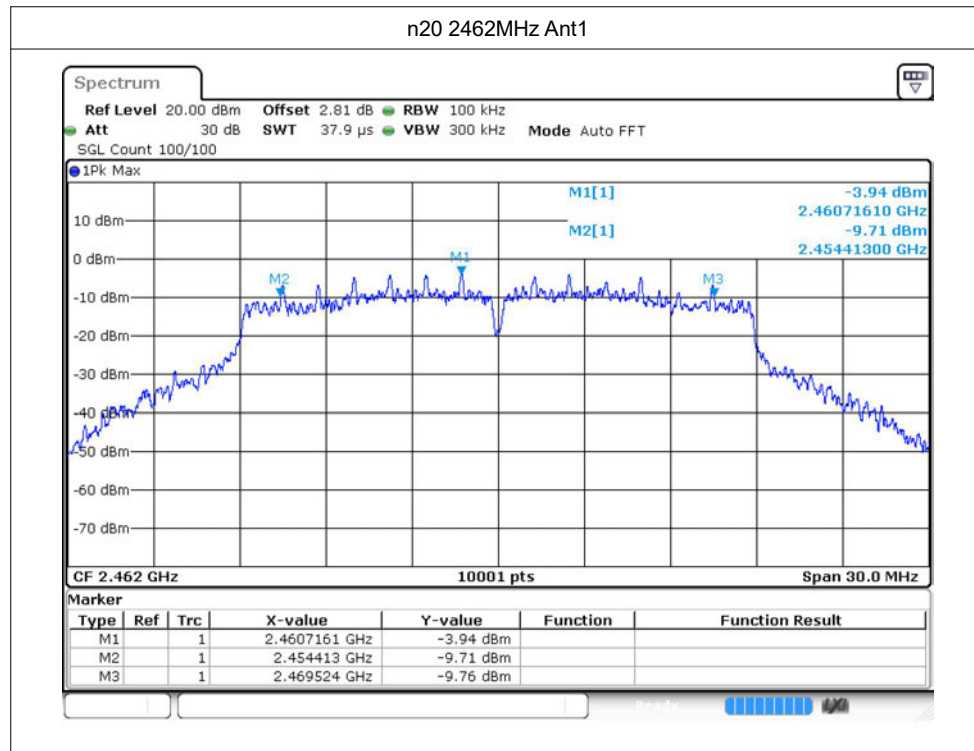


n20 2412MHz Ant1



n20 2437MHz Ant1



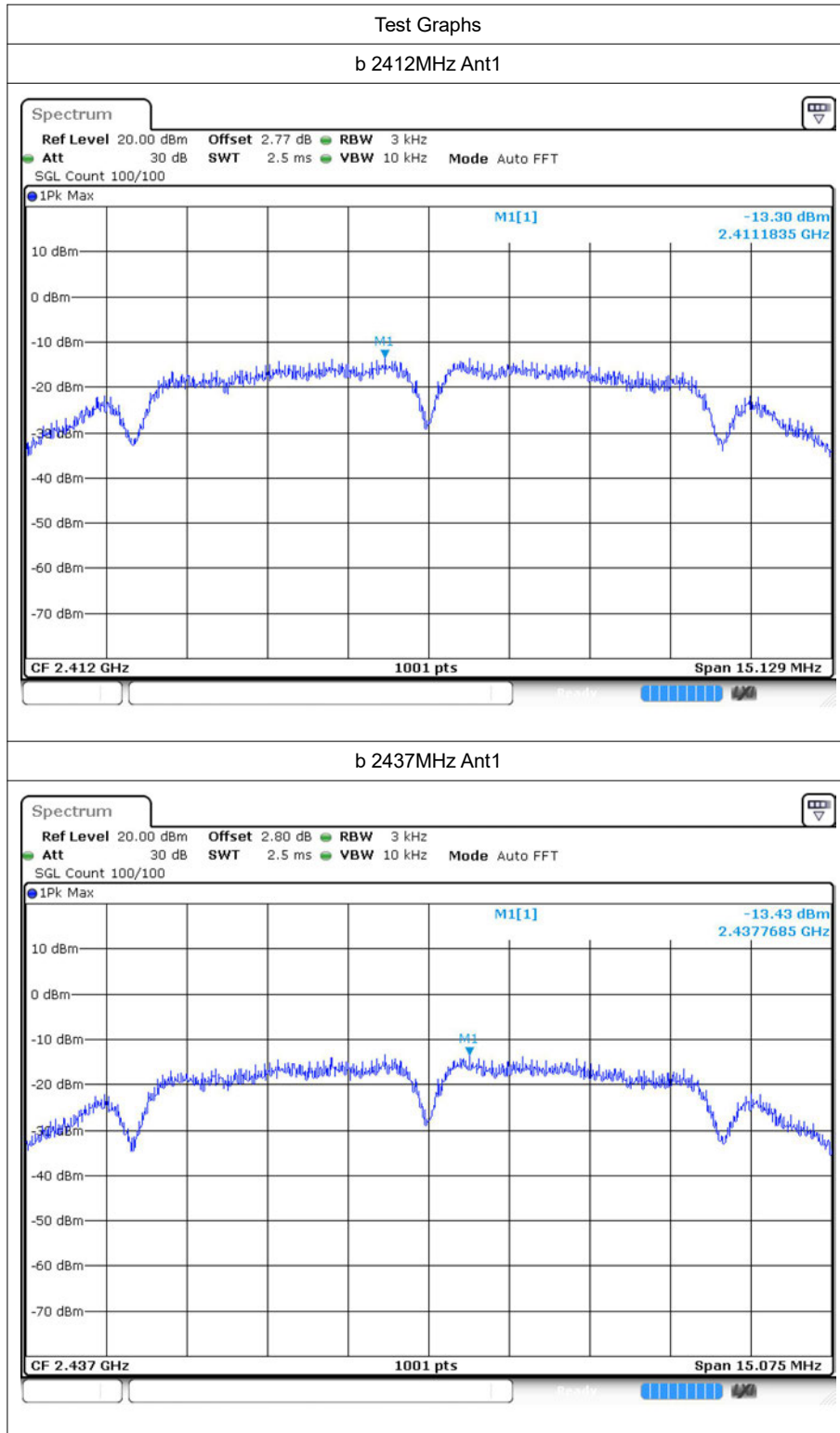


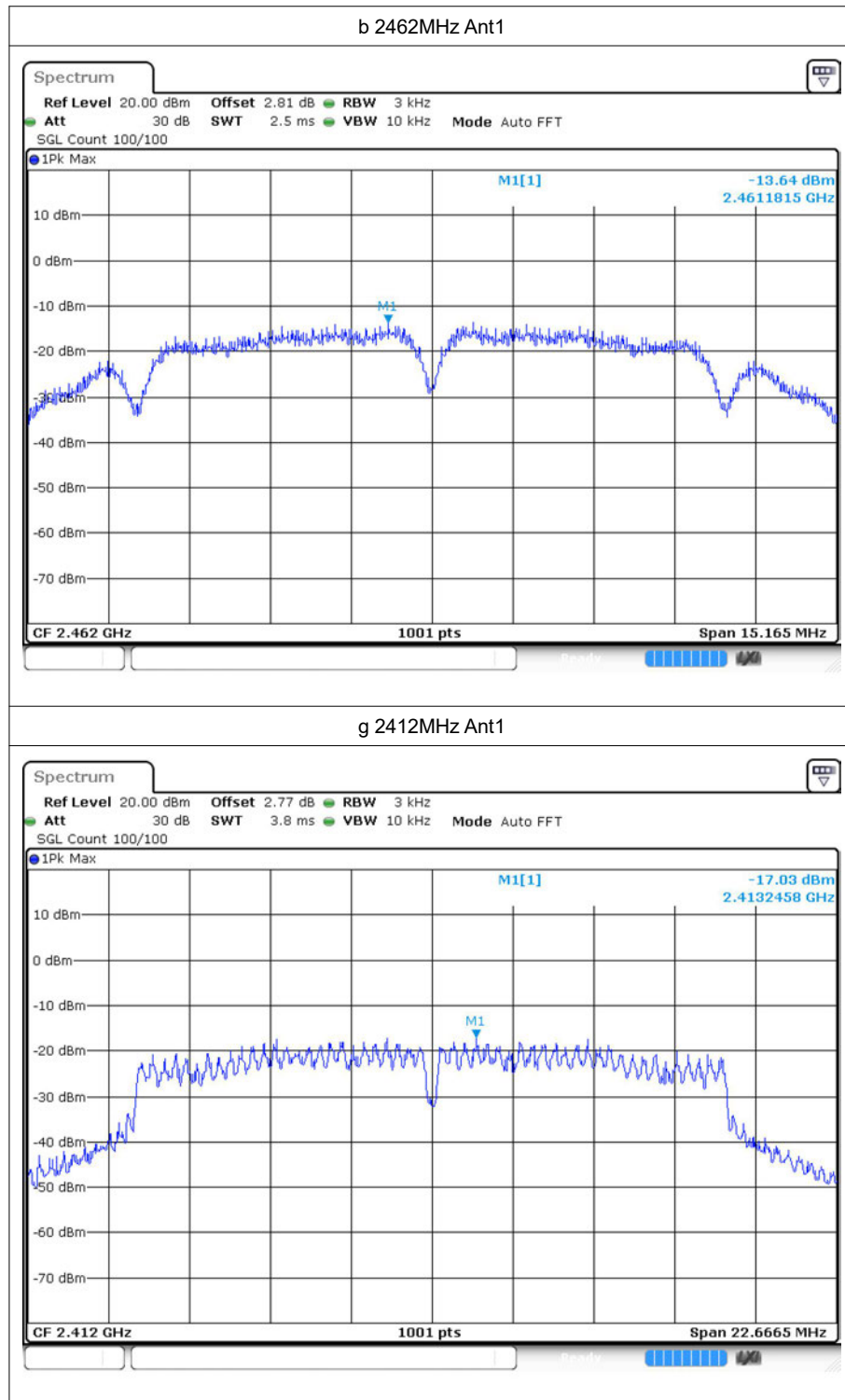
4 Maximum Power Spectral Density Level

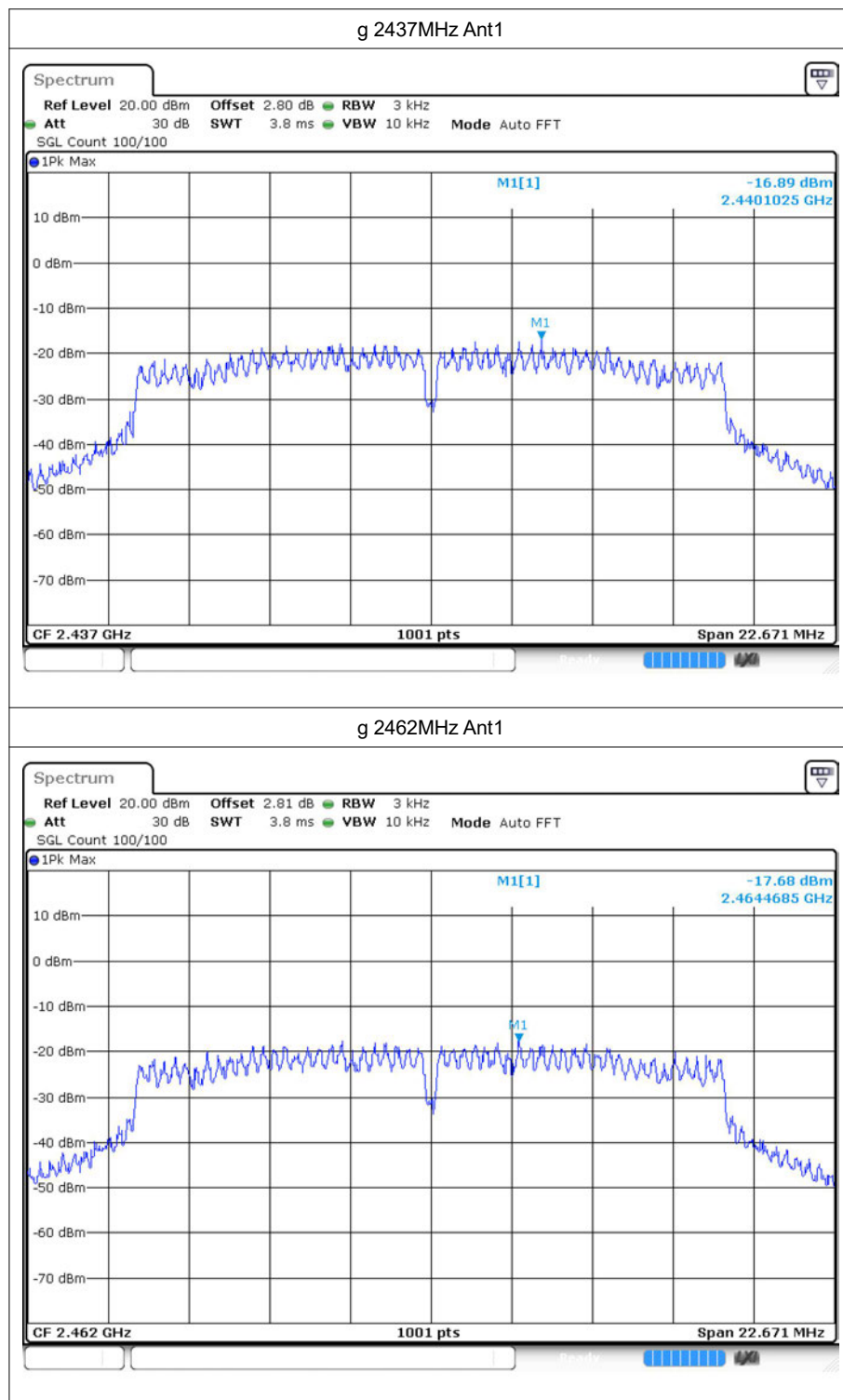
4.1 Test Result

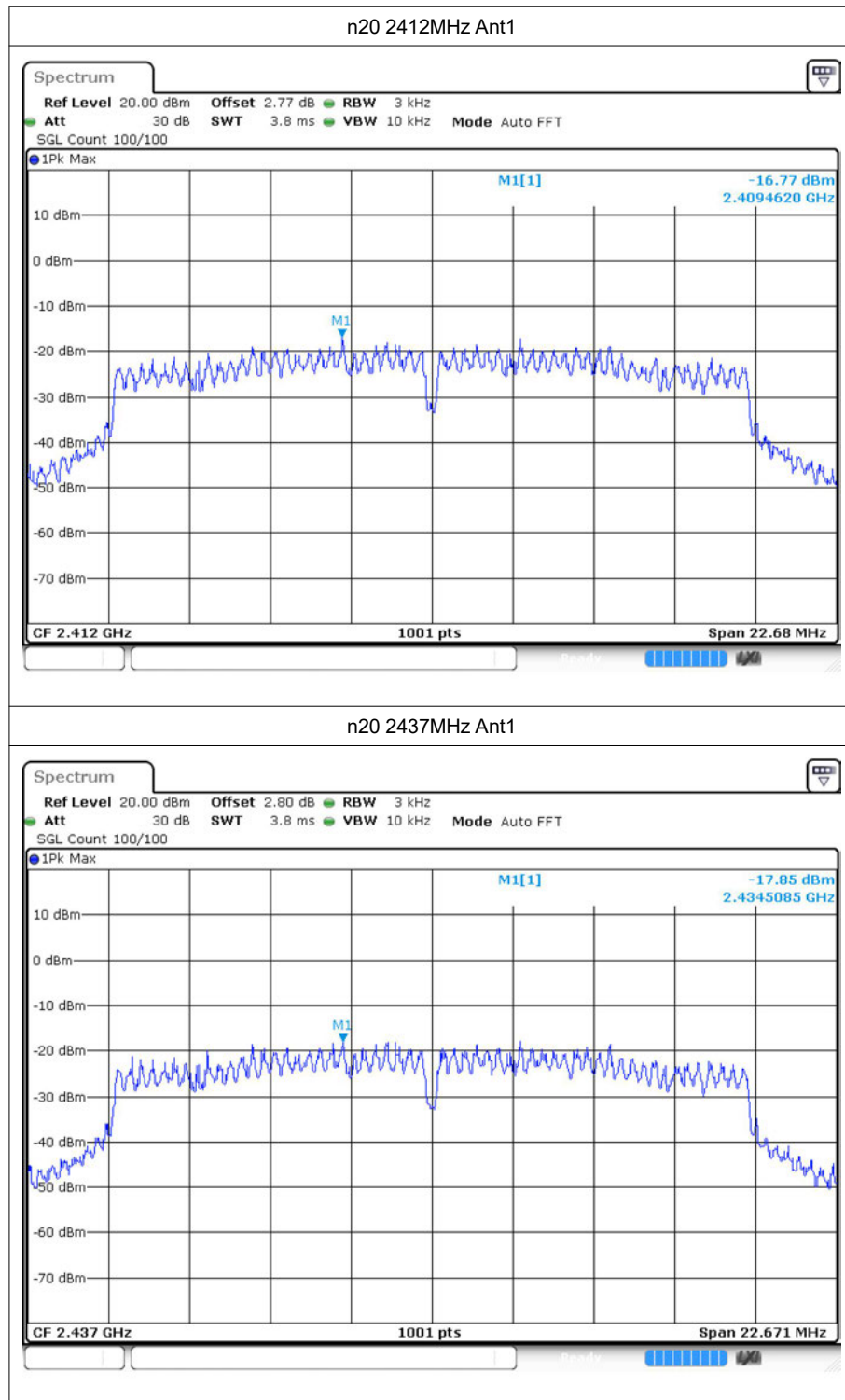
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
b	2412	Ant1	-13.3	≤ 8	Pass
b	2437	Ant1	-13.43	≤ 8	Pass
b	2462	Ant1	-13.64	≤ 8	Pass
g	2412	Ant1	-17.03	≤ 8	Pass
g	2437	Ant1	-16.89	≤ 8	Pass
g	2462	Ant1	-17.68	≤ 8	Pass
n20	2412	Ant1	-16.77	≤ 8	Pass
n20	2437	Ant1	-17.85	≤ 8	Pass
n20	2462	Ant1	-17.39	≤ 8	Pass

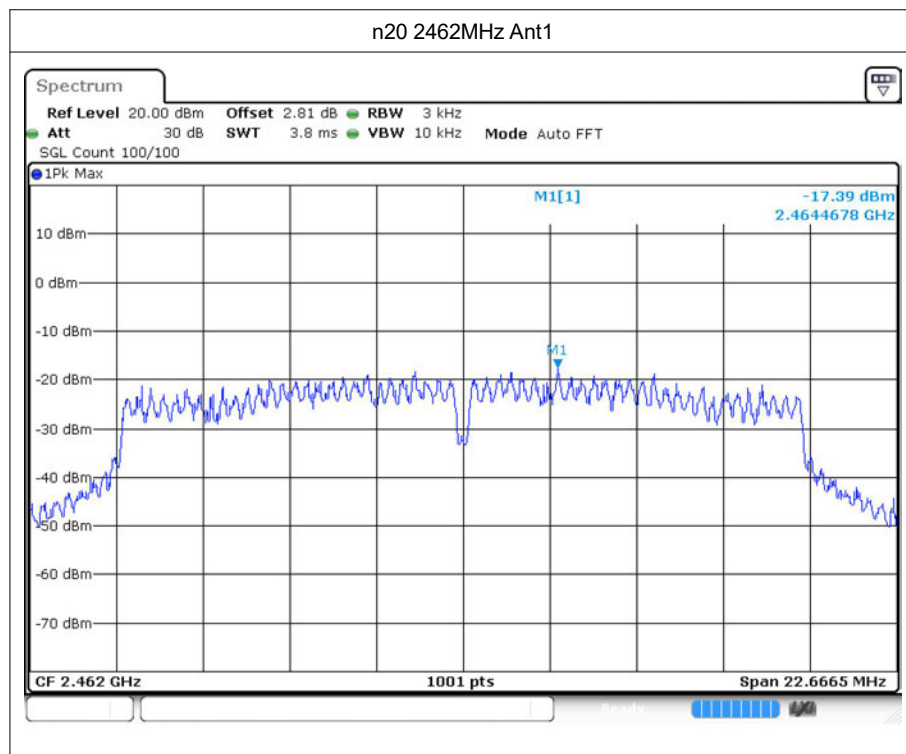
4.2 Test Graphs











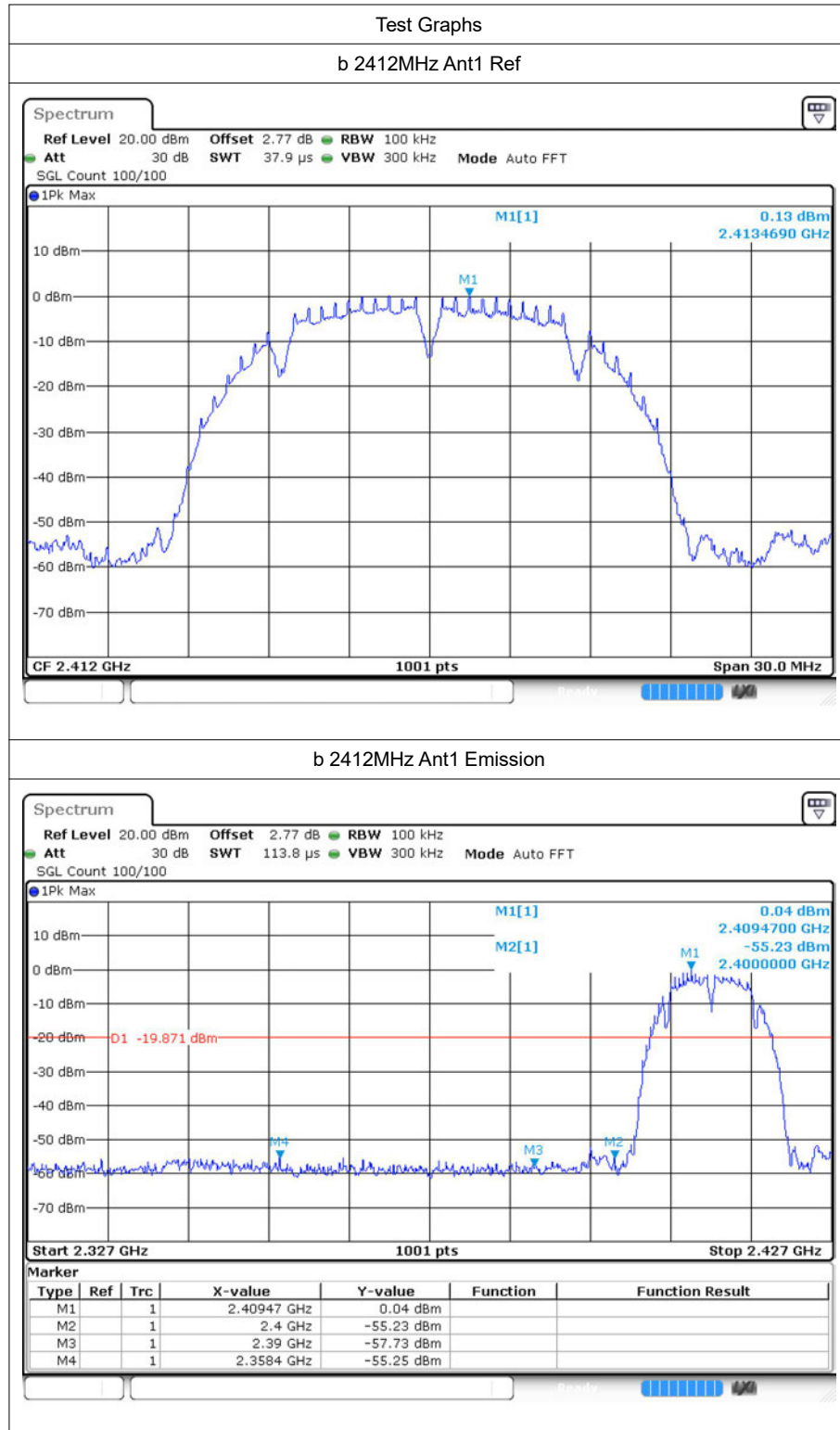


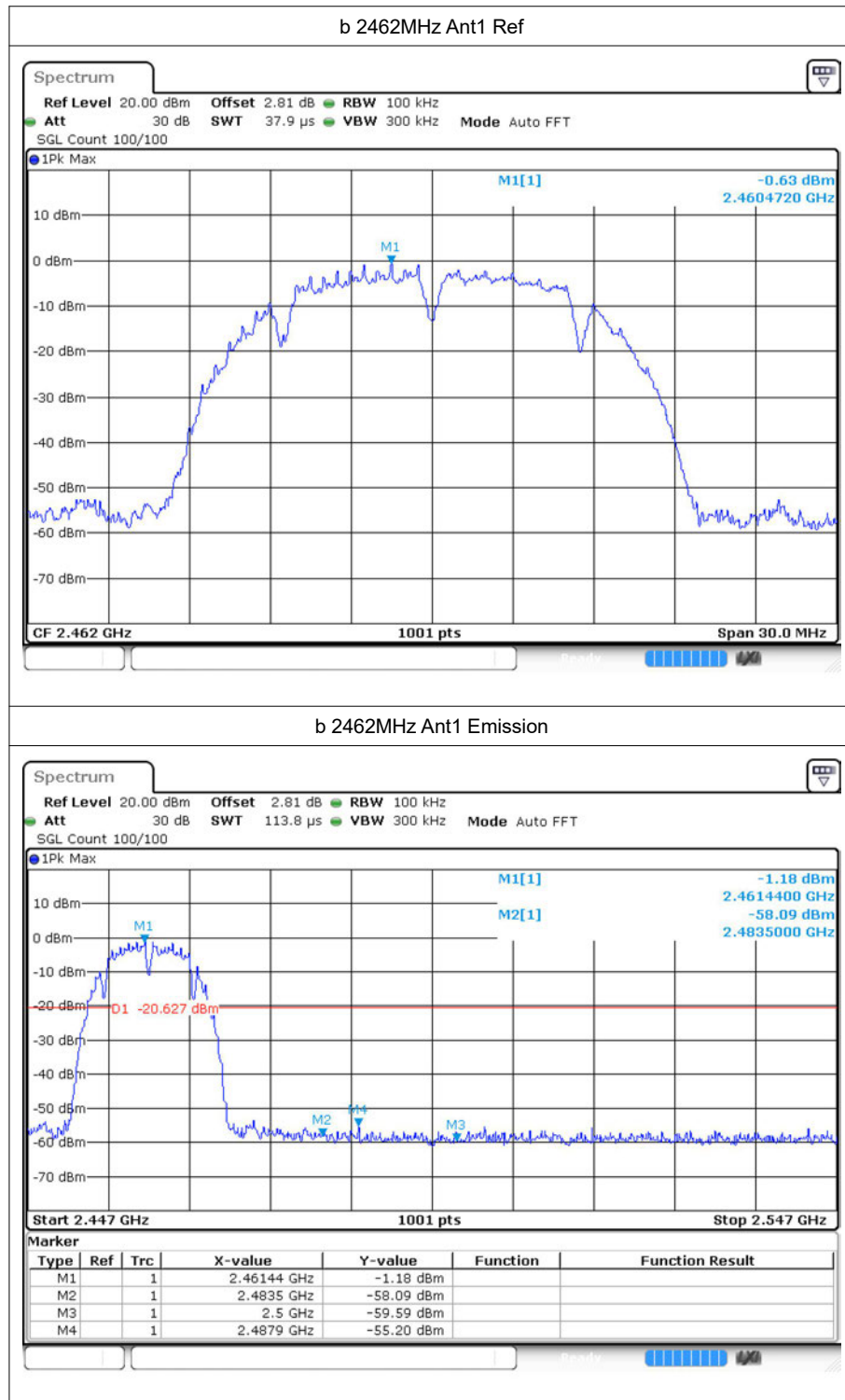
5 Band Edge

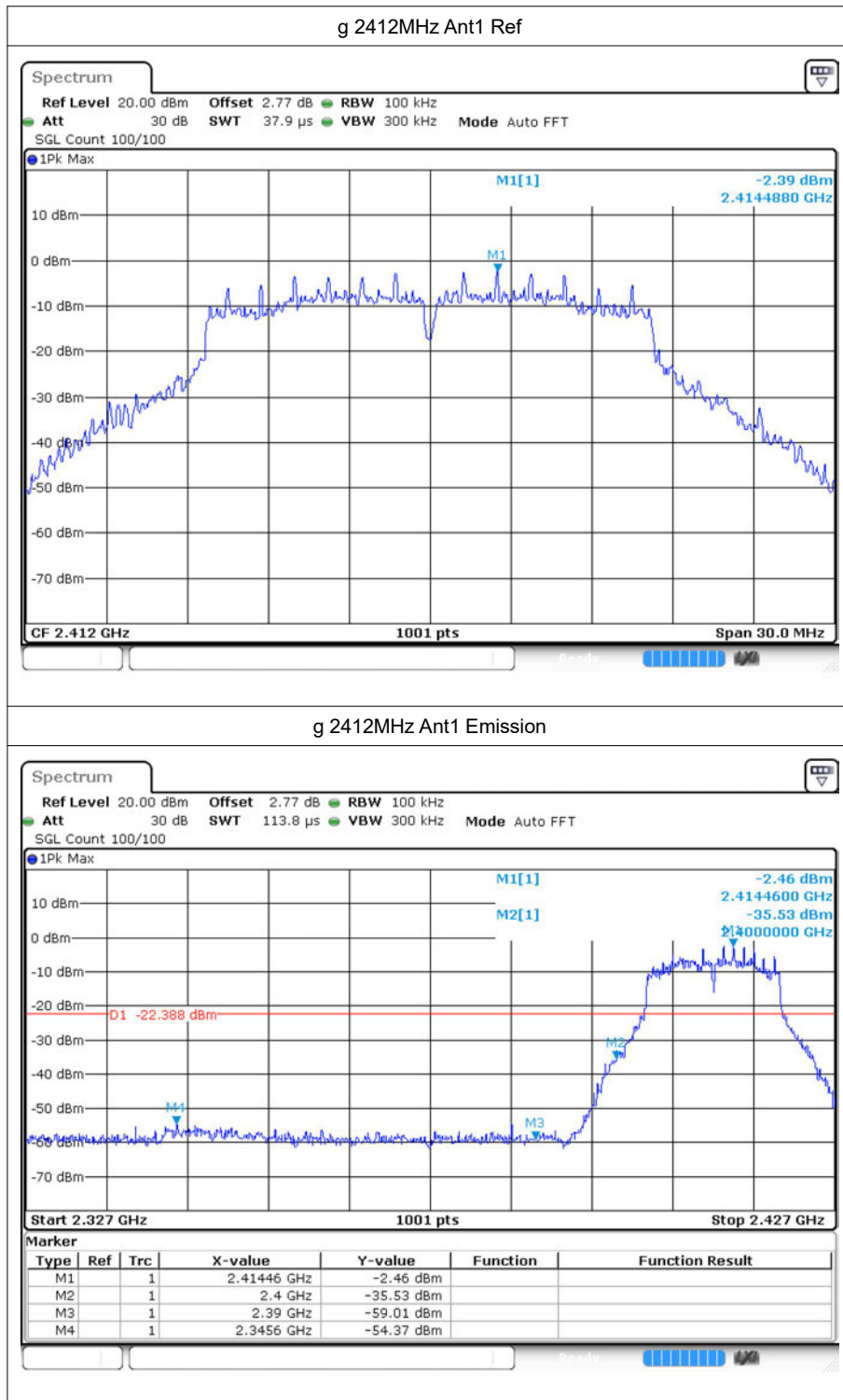
5.1 Test Result

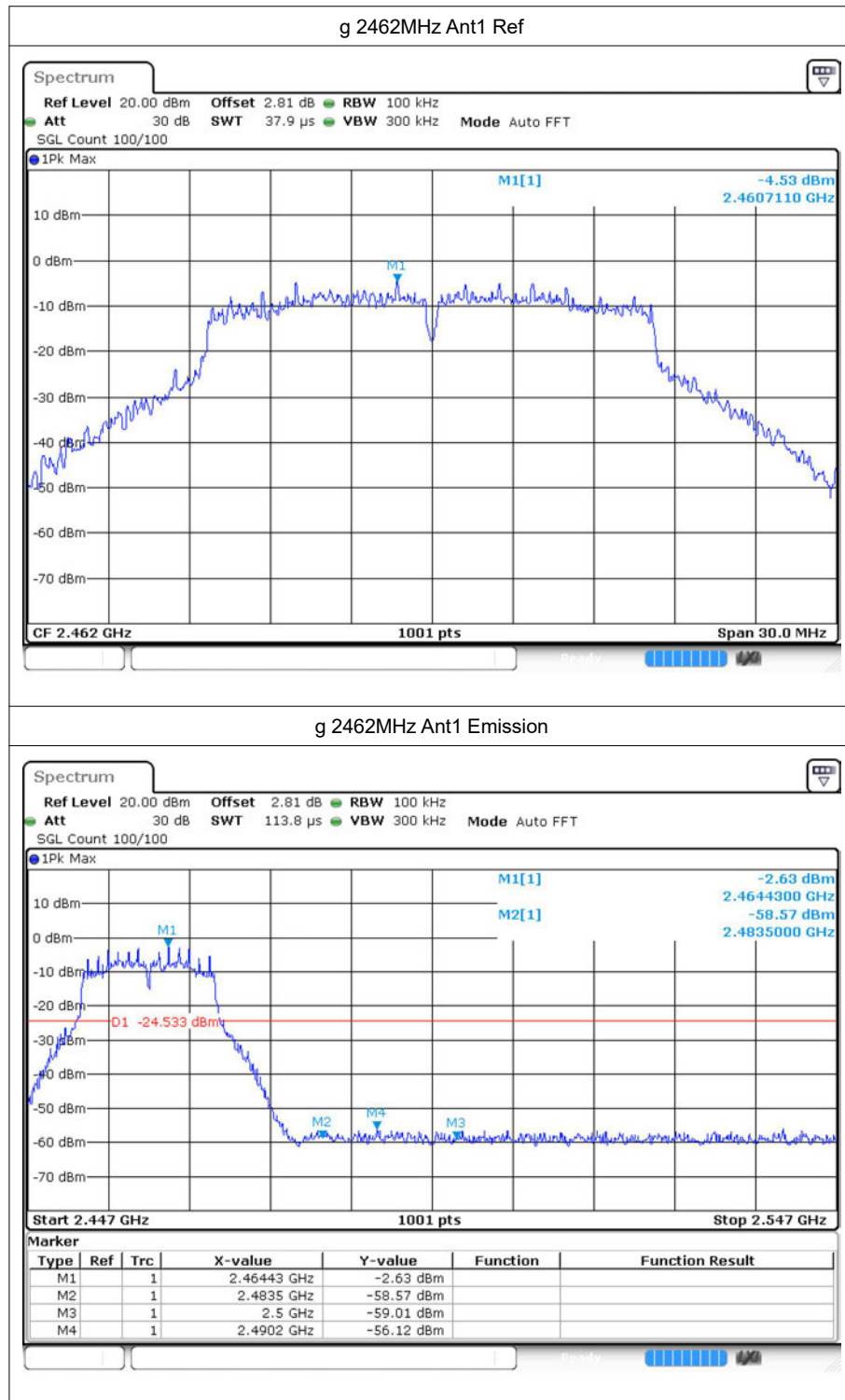
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-55.38	-20	Pass
b	2462	Ant1	-54.56	-20	Pass
g	2412	Ant1	-51.98	-20	Pass
g	2462	Ant1	-51.59	-20	Pass
n20	2412	Ant1	-51.65	-20	Pass
n20	2462	Ant1	-52.79	-20	Pass

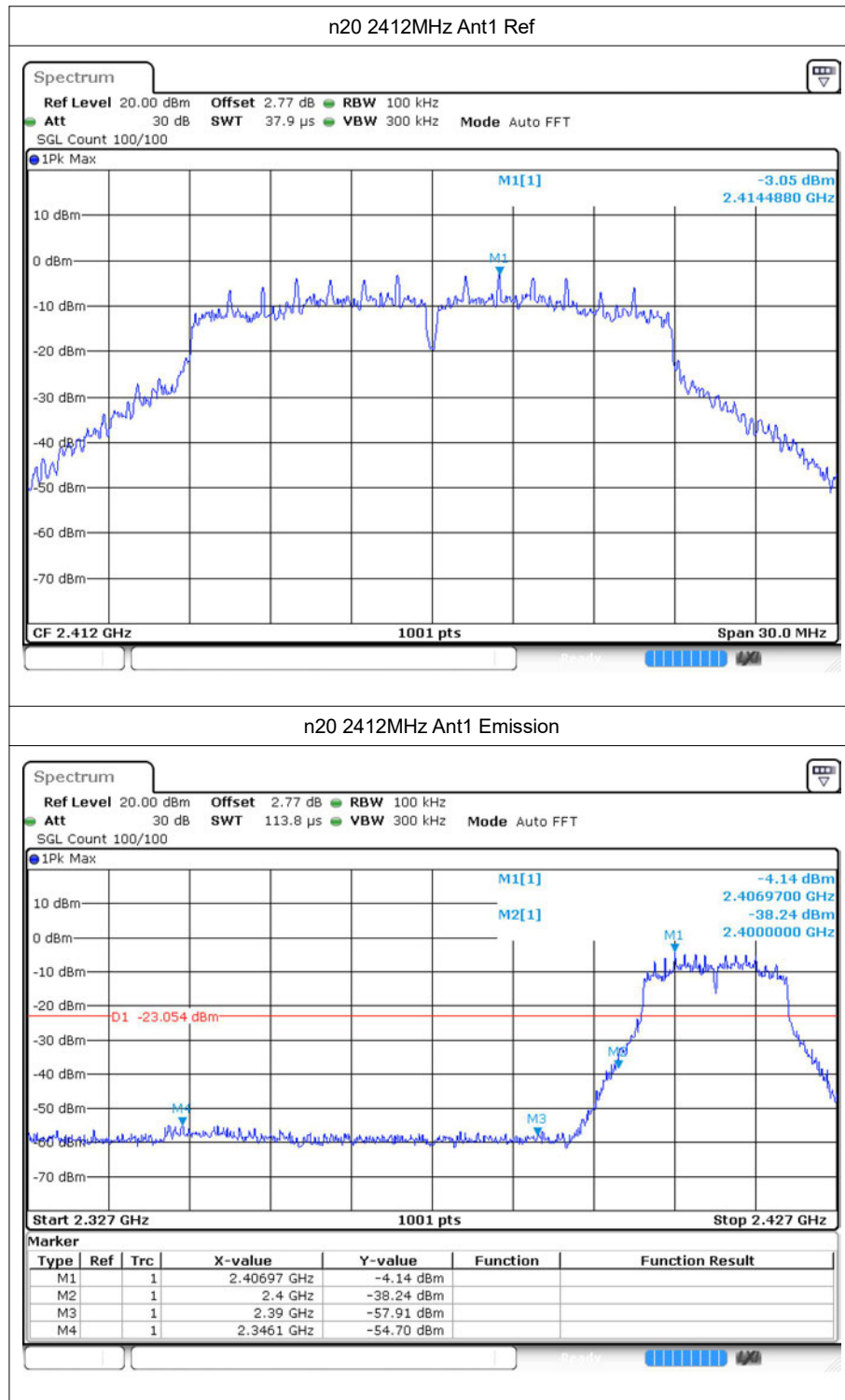
5.2 Test Graphs

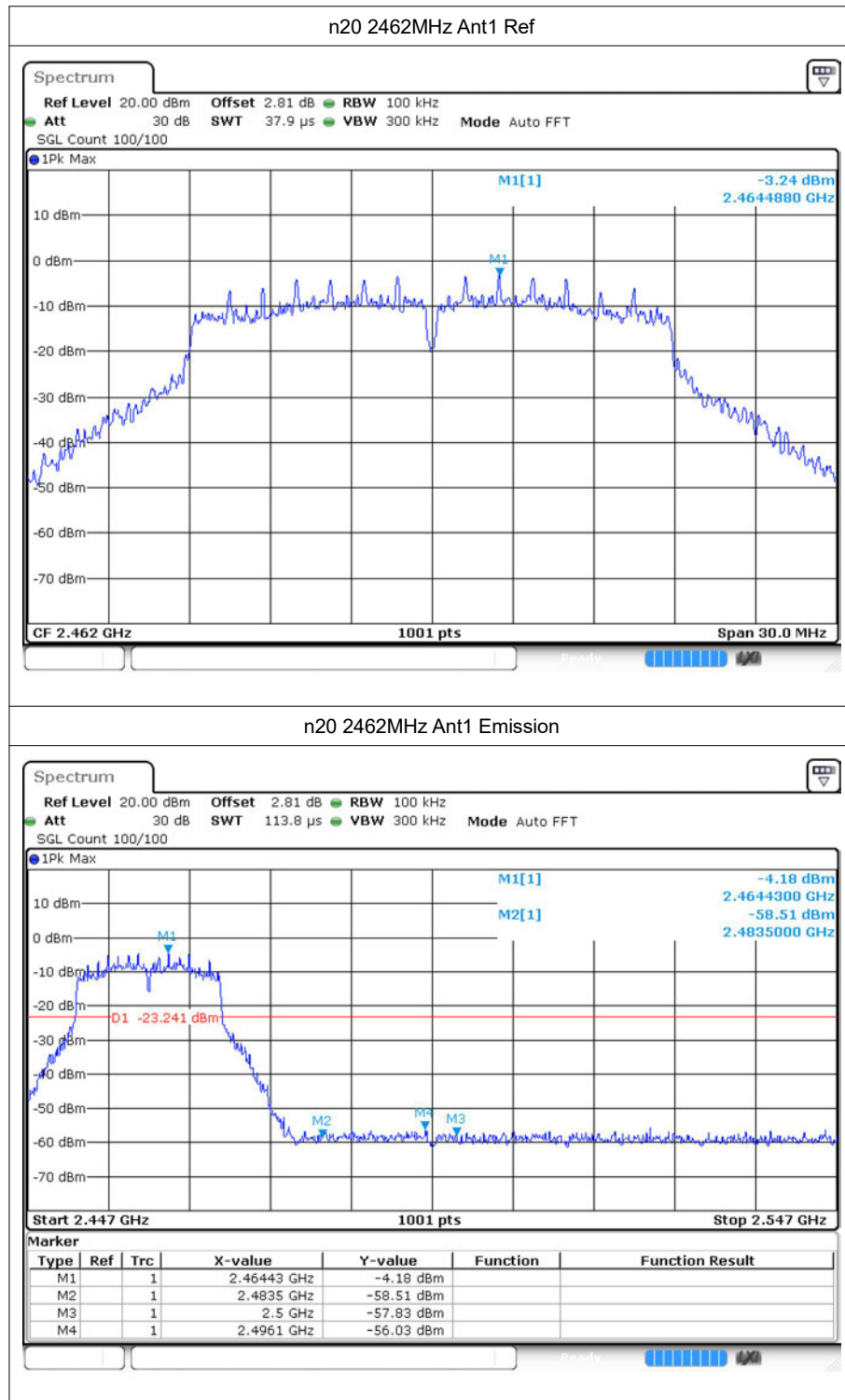












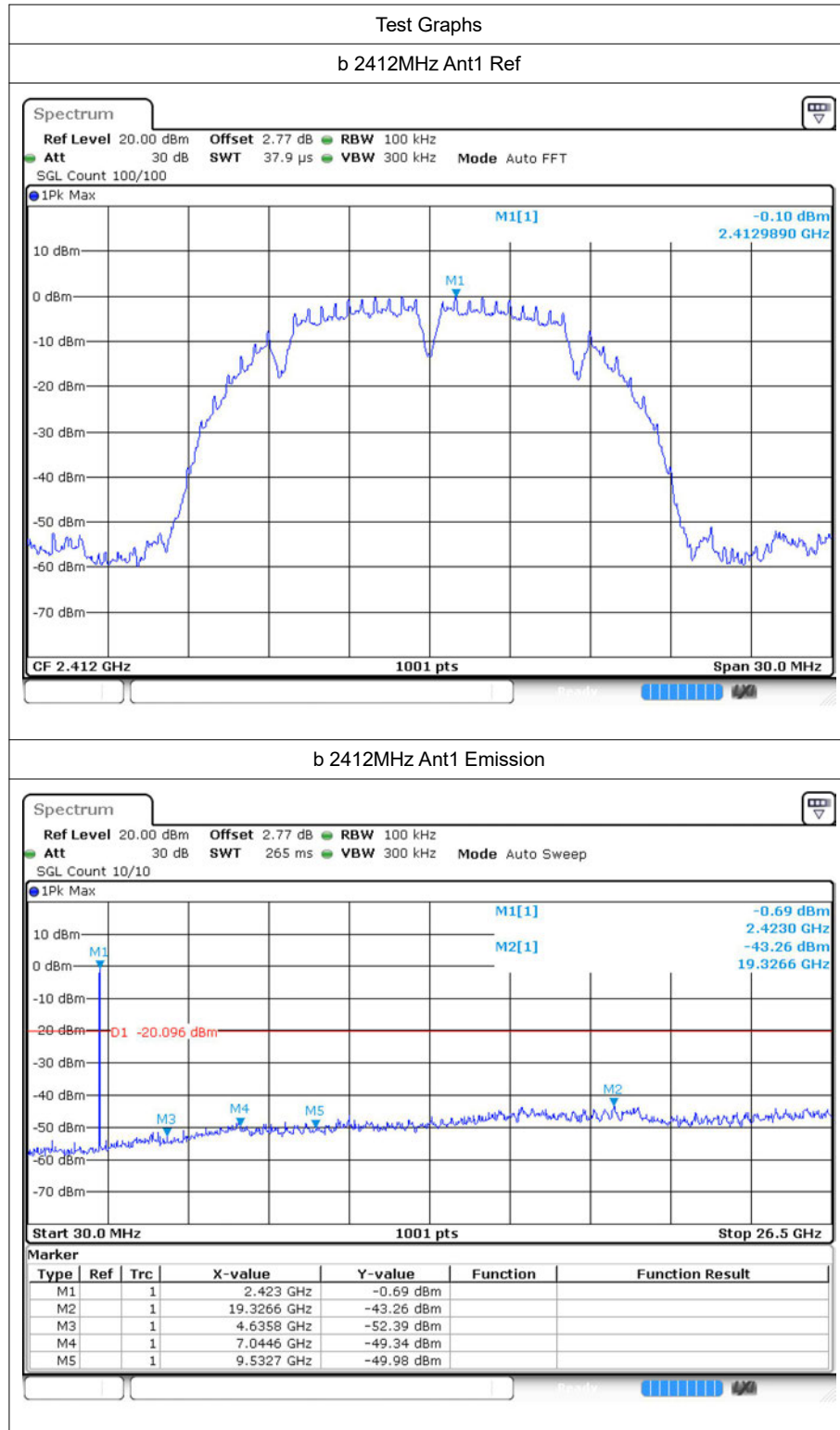


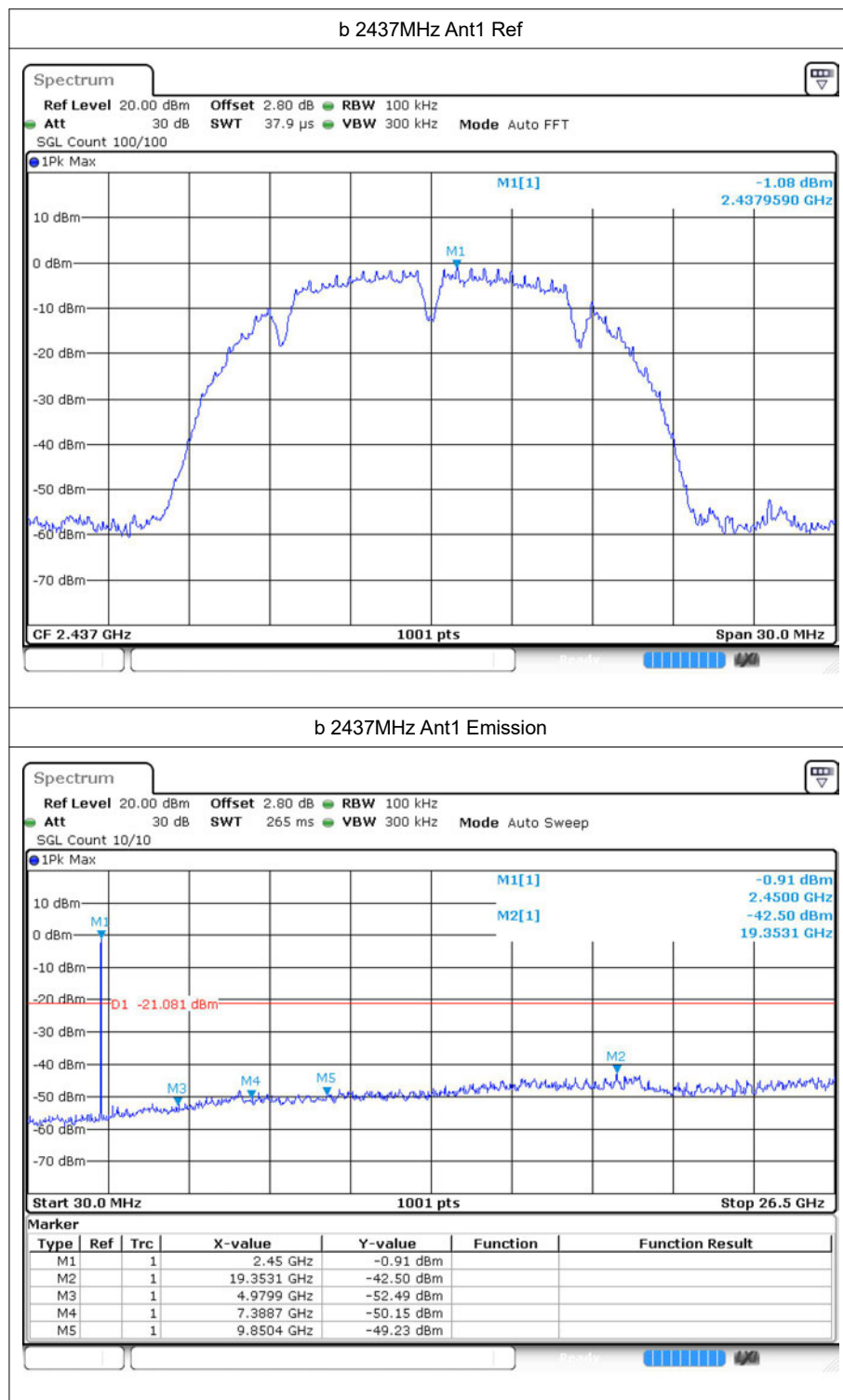
6 Conducted RF Spurious Emission

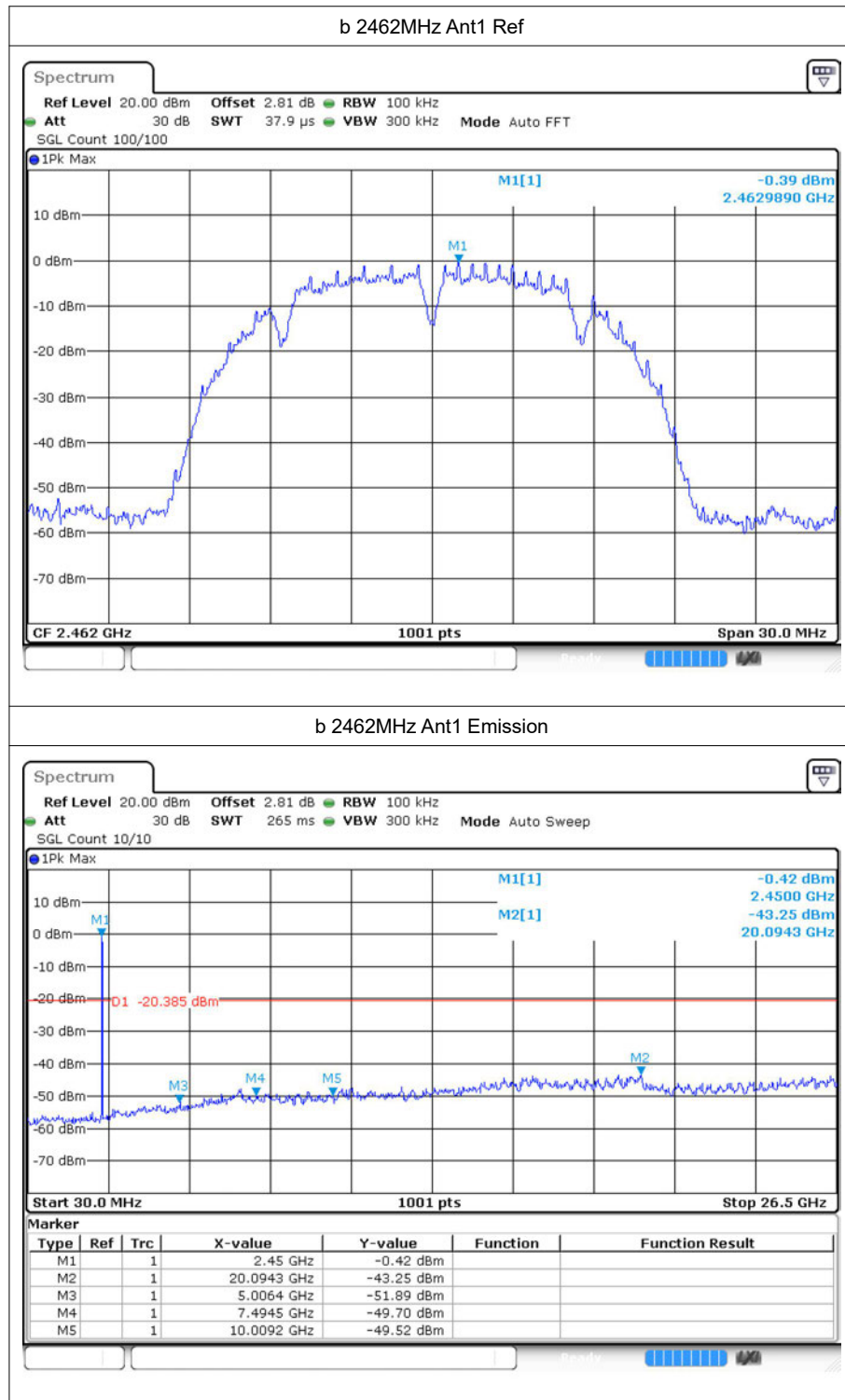
6.1 Test Result

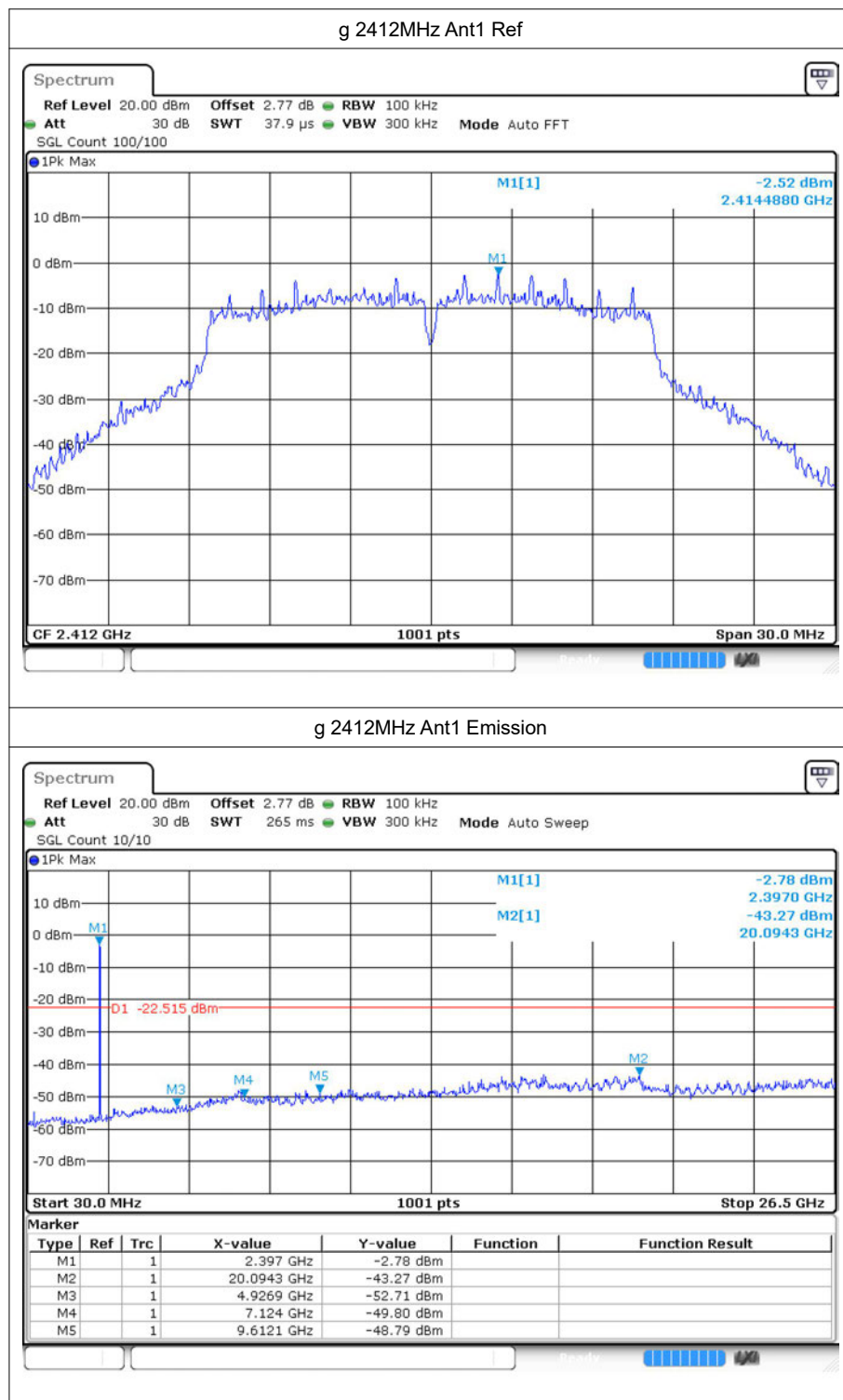
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-43.15	-20	Pass
b	2437	Ant1	-41.42	-20	Pass
b	2462	Ant1	-42.85	-20	Pass
g	2412	Ant1	-40.74	-20	Pass
g	2437	Ant1	-41.1	-20	Pass
g	2462	Ant1	-40.52	-20	Pass
n20	2412	Ant1	-38.78	-20	Pass
n20	2437	Ant1	-39.78	-20	Pass
n20	2462	Ant1	-39.54	-20	Pass

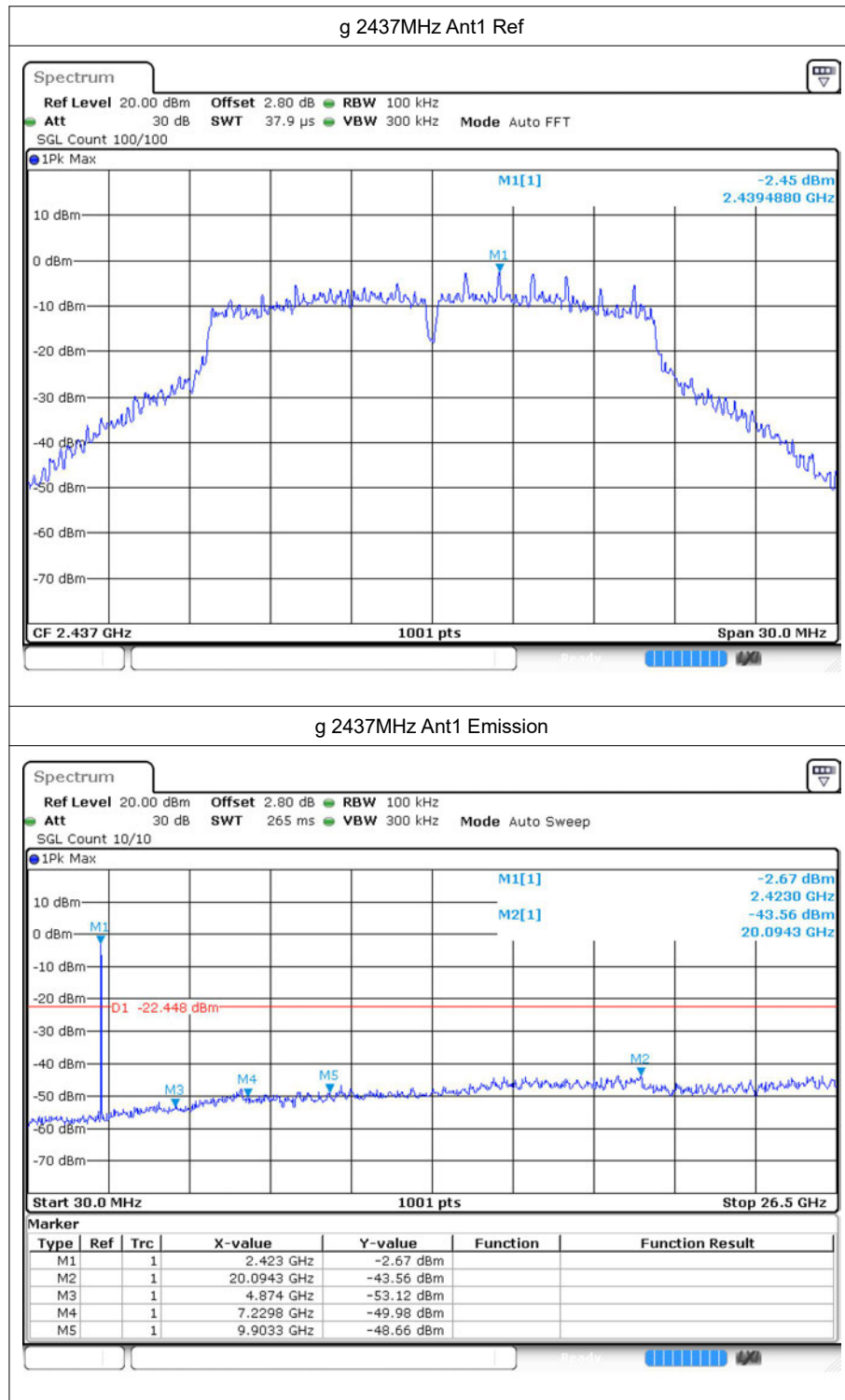
6.2 Test Graphs

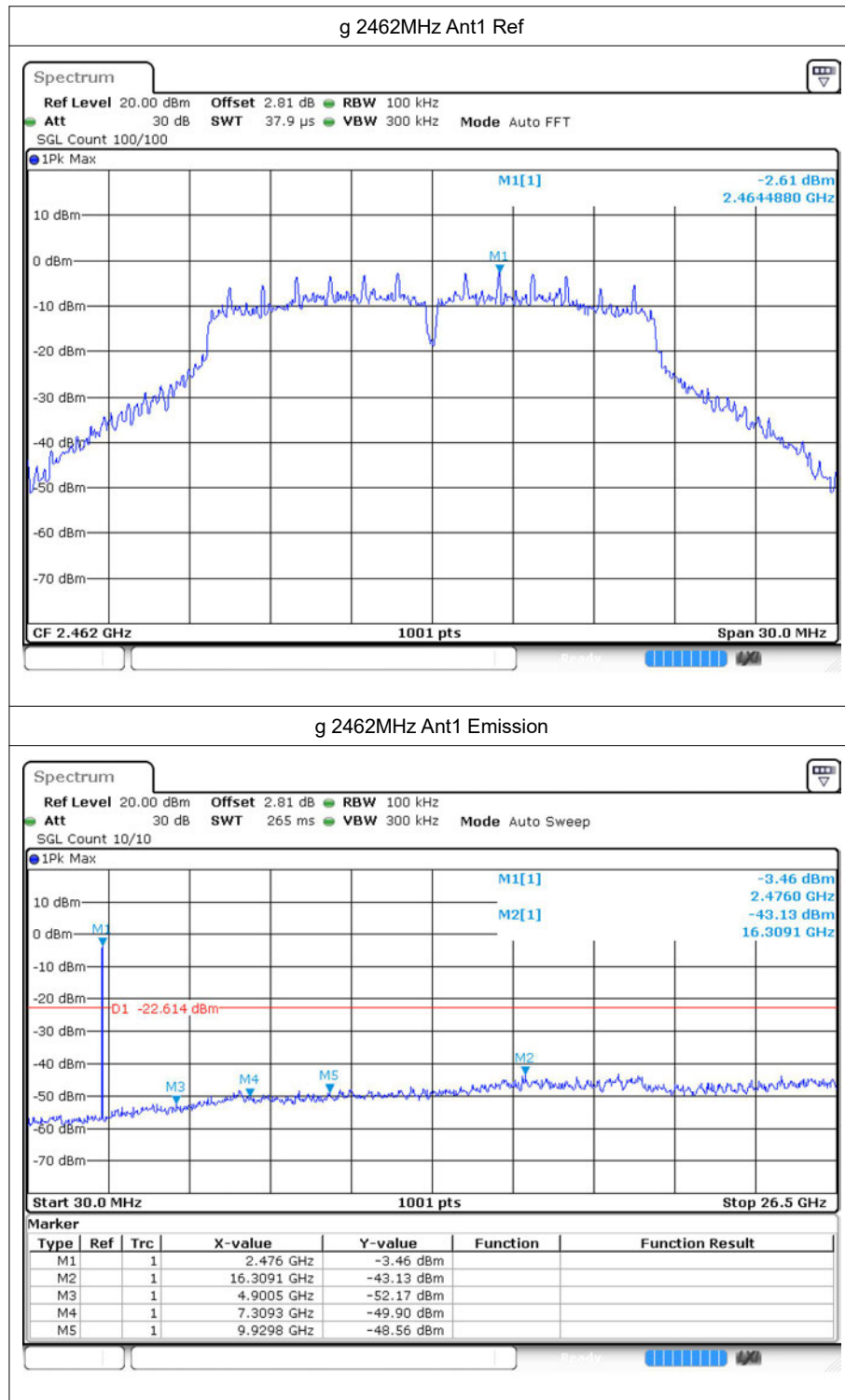


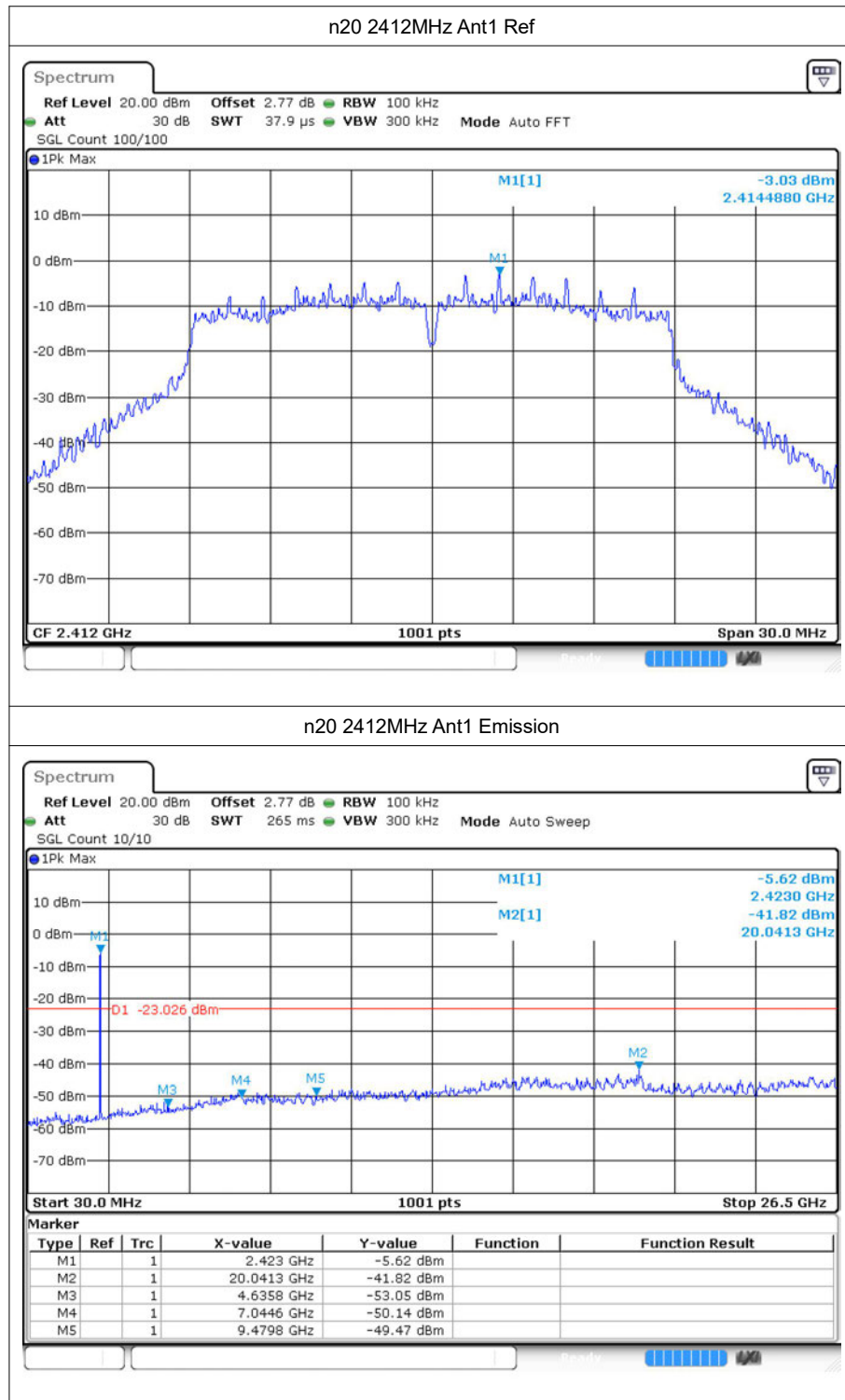


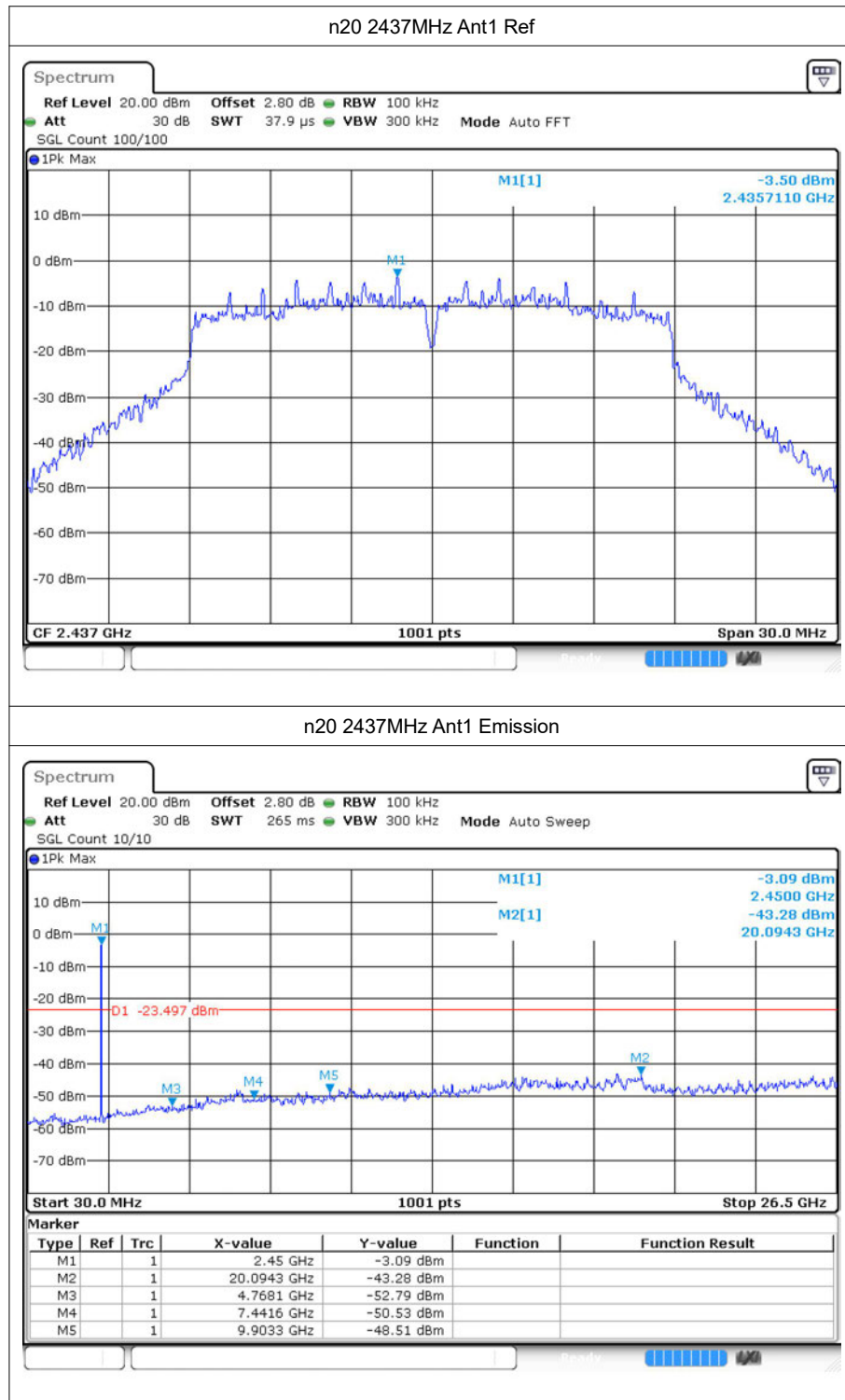


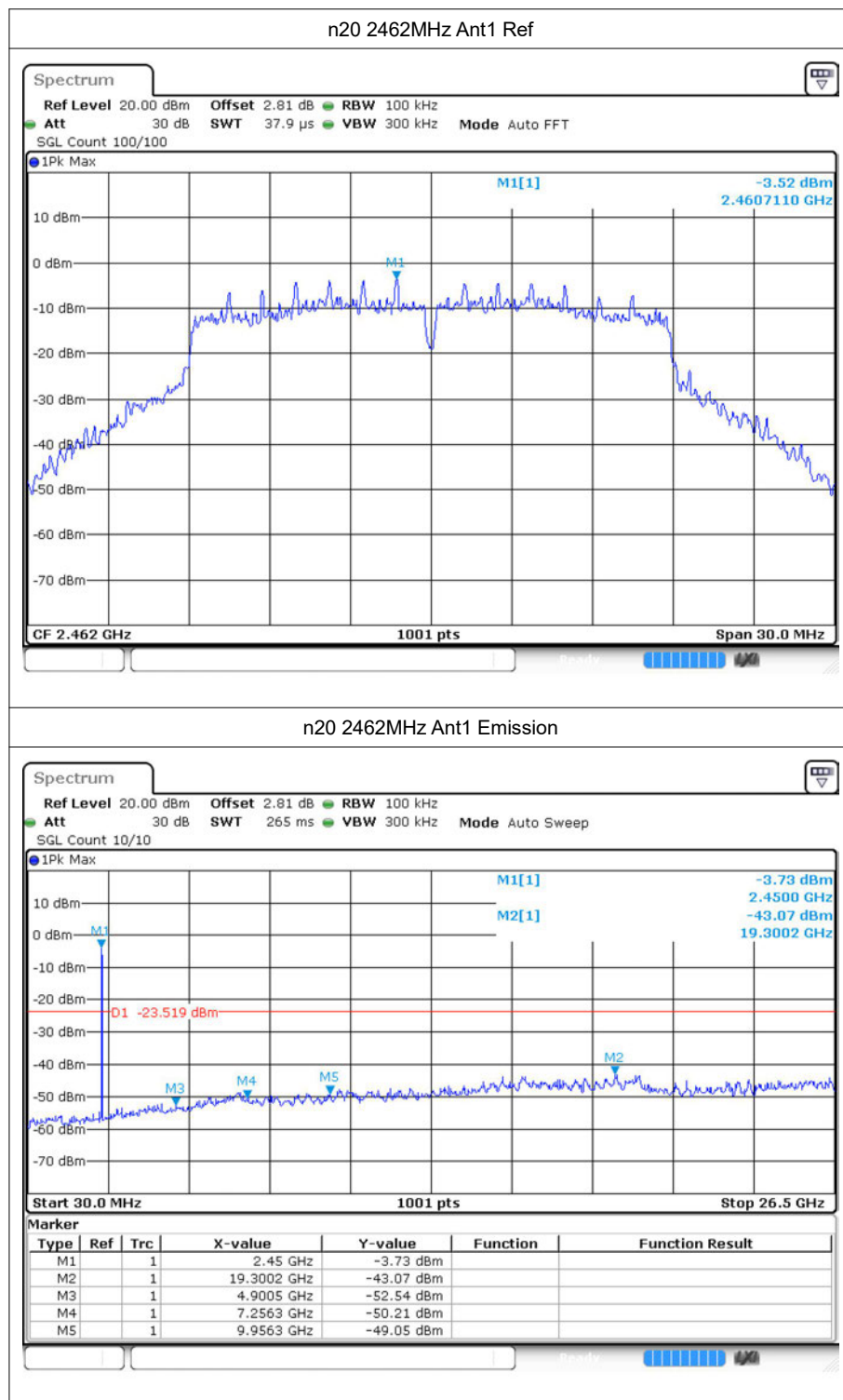














7 Restrict Band

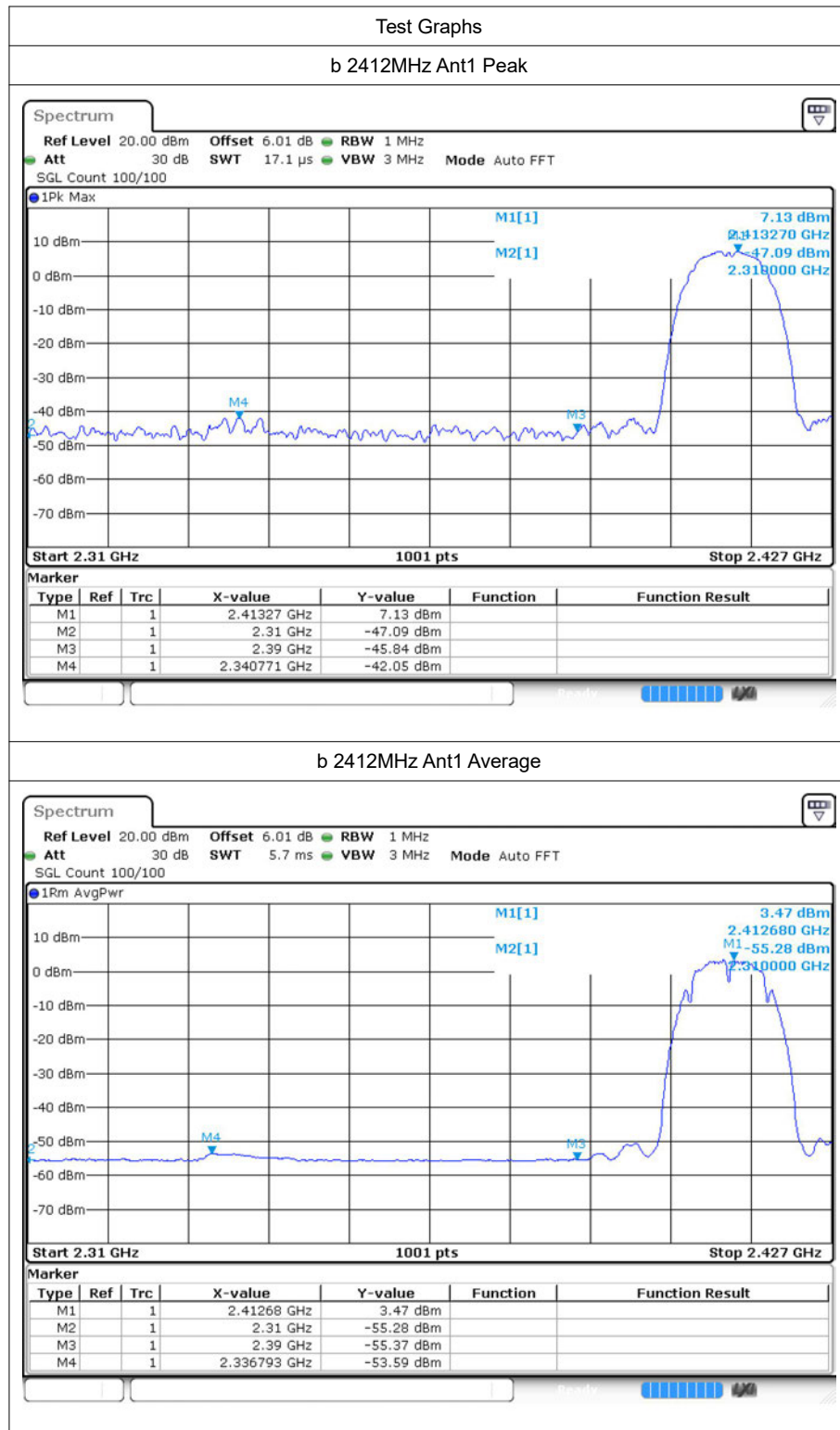
7.1 Test Result

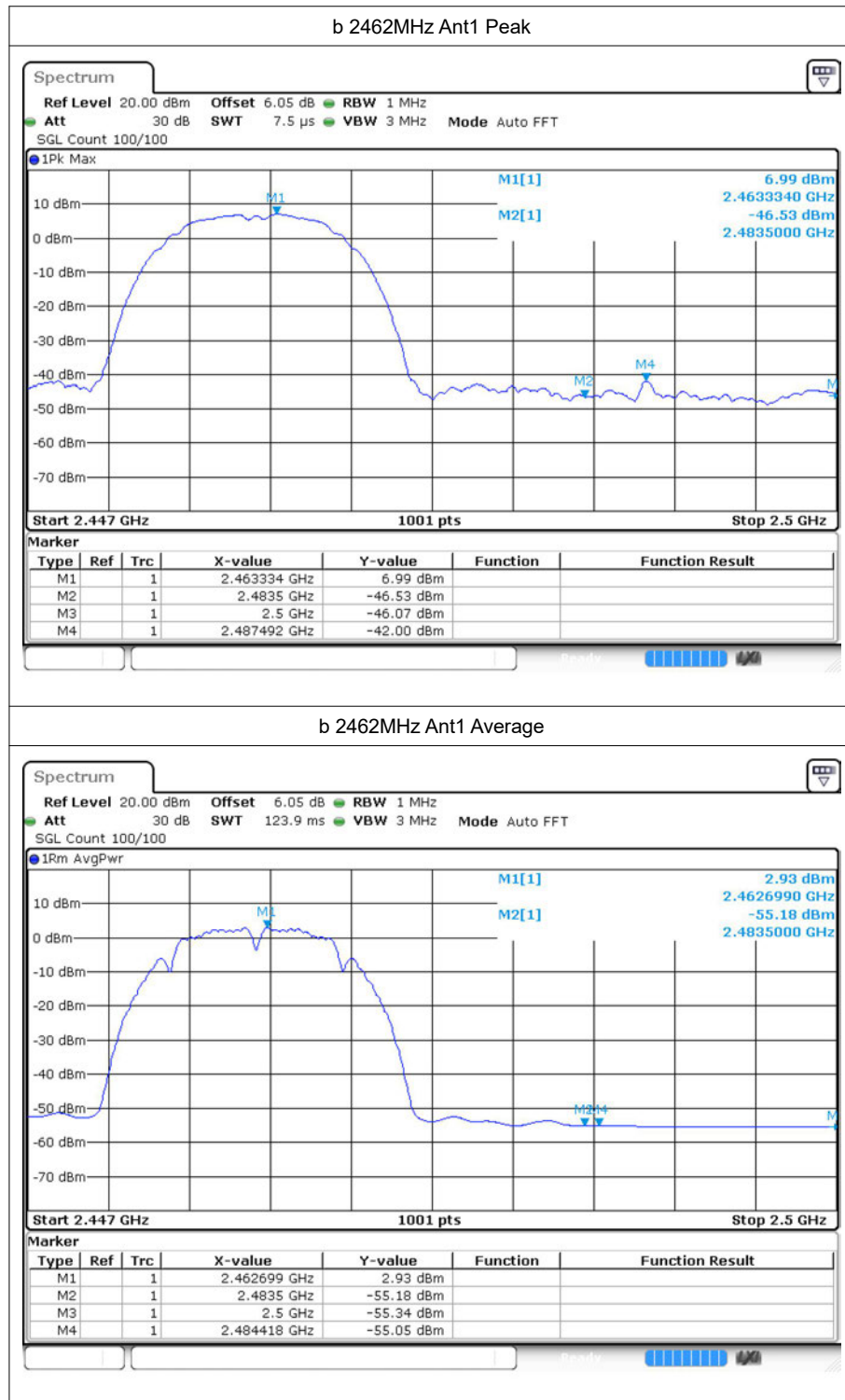
Mod e	Frequency (MHz)	Antenn a	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Cycle Factor (dB)	E (dBuV/m)	Detecto r	Limit (dBuV/m)	Verdic t
b	2412	Ant1	2310	-47.08	3.24	--	51.42	Peak	74	Pass
b	2412	Ant1	2310	-55.28	3.24	--	43.22	Average	54	Pass
b	2412	Ant1	2340.771	-42.04	3.24	--	56.46	Peak	74	Pass
b	2412	Ant1	2336.793	-53.58	3.24	--	44.92	Average	54	Pass
b	2412	Ant1	2390	-45.83	3.24	--	52.67	Peak	74	Pass
b	2412	Ant1	2390	-55.37	3.24	--	43.13	Average	54	Pass
b	2462	Ant1	2483.5	-46.52	3.24	--	51.98	Peak	74	Pass
b	2462	Ant1	2483.5	-55.17	3.24	--	43.33	Average	54	Pass
b	2462	Ant1	2487.492	-41.99	3.24	--	56.51	Peak	74	Pass
b	2462	Ant1	2484.418	-55.04	3.24	--	43.46	Average	54	Pass
b	2462	Ant1	2500	-46.07	3.24	--	52.43	Peak	74	Pass
b	2462	Ant1	2500	-55.34	3.24	--	43.16	Average	54	Pass
g	2412	Ant1	2310	-43.3	3.24	--	55.2	Peak	74	Pass
g	2412	Ant1	2310	-54.3	3.24	0.61	44.81	Average	54	Pass
g	2412	Ant1	2340.303	-43.16	3.24	--	55.34	Peak	74	Pass
g	2412	Ant1	2337.612	-51.7	3.24	0.61	47.41	Average	54	Pass
g	2412	Ant1	2390	-47.85	3.24	--	52.67	Peak	74	Pass
g	2412	Ant1	2390	-54.38	3.24	0.61	44.73	Average	54	Pass
g	2462	Ant1	2483.5	-46.26	3.24	--	52.24	Peak	74	Pass
g	2462	Ant1	2483.5	-53.69	3.24	0.61	45.42	Average	54	Pass
g	2462	Ant1	2487.492	-43.43	3.24	--	55.07	Peak	74	Pass
g	2462	Ant1	2485.955	-53.47	3.24	0.61	45.64	Average	54	Pass
g	2462	Ant1	2500	-45.67	3.24	--	52.43	Peak	74	Pass
g	2462	Ant1	2500	-54.22	3.24	0.61	44.89	Average	54	Pass
n20	2412	Ant1	2310	-45.52	3.24	--	52.98	Peak	74	Pass
n20	2412	Ant1	2310	-54.03	3.24	0.58	45.05	Average	54	Pass
n20	2412	Ant1	2351.067	-42.36	3.24	--	56.14	Peak	74	Pass
n20	2412	Ant1	2337.144	-51.81	3.24	0.58	47.27	Average	54	Pass
n20	2412	Ant1	2390	-45.8	3.24	--	52.70	Peak	74	Pass
n20	2412	Ant1	2390	-54.29	3.24	0.58	44.79	Average	54	Pass
n20	2462	Ant1	2483.5	-45.21	3.24	--	53.29	Peak	74	Pass
n20	2462	Ant1	2483.5	-53.76	3.24	0.58	45.32	Average	54	Pass
n20	2462	Ant1	2489.241	-44.06	3.24	--	54.44	Peak	74	Pass

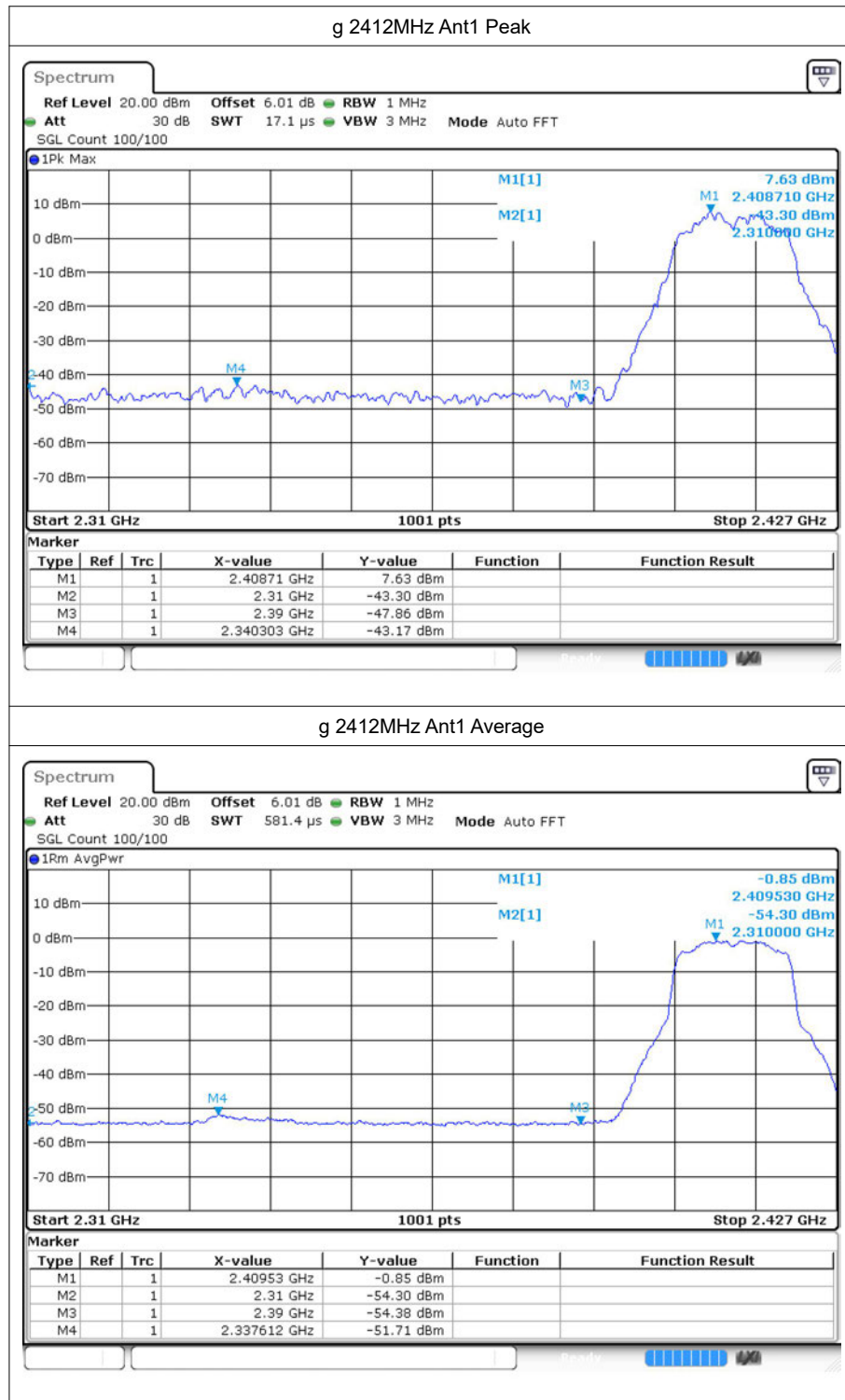


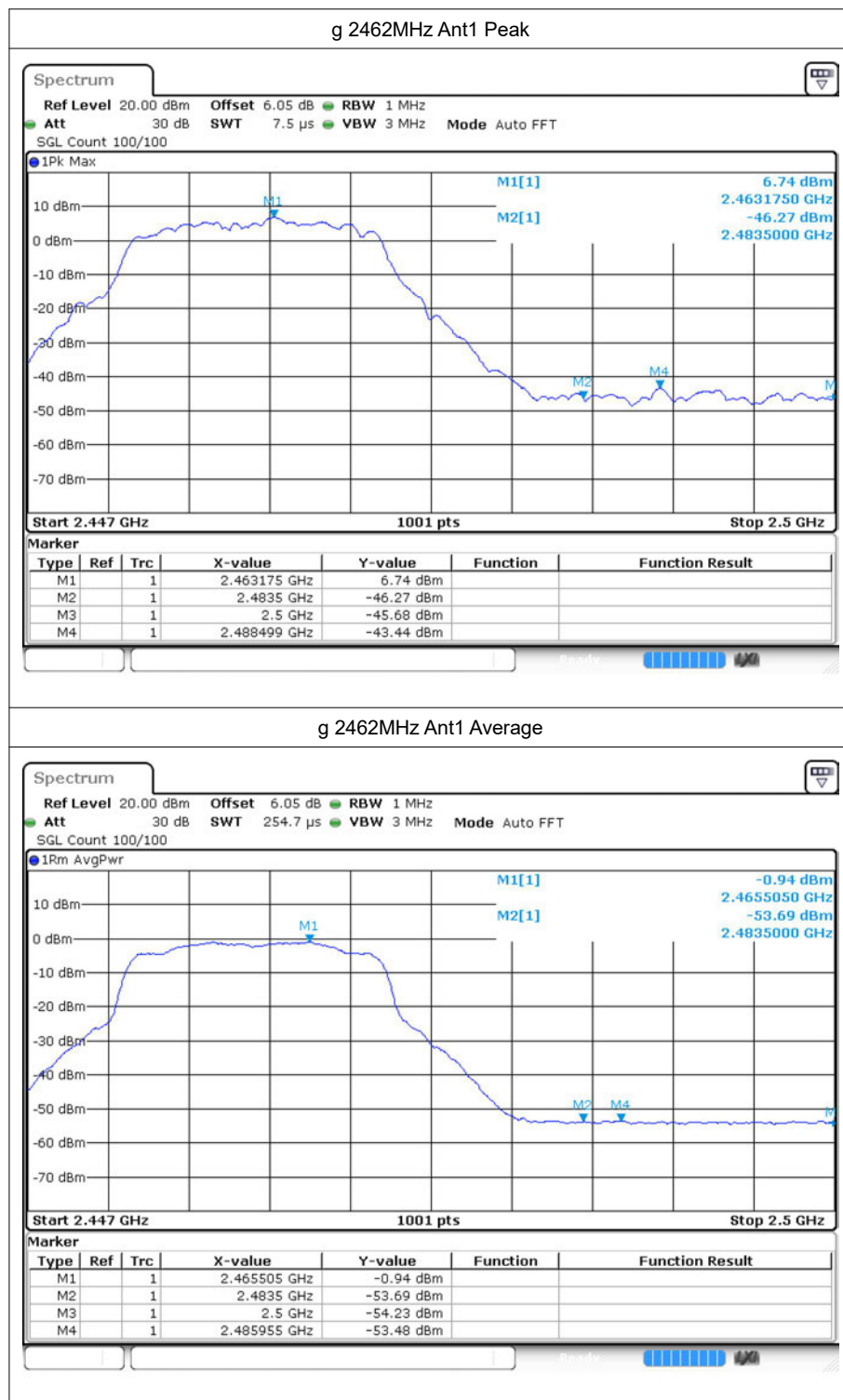
n20	2462	Ant1	2498.94	-53.07	3.24	0.58	46.01	Average	54	Pass
n20	2462	Ant1	2500	-45.36	3.24	--	53.14	Peak	74	Pass
n20	2462	Ant1	2500	-54.27	3.24	0.58	44.81	Average	54	Pass

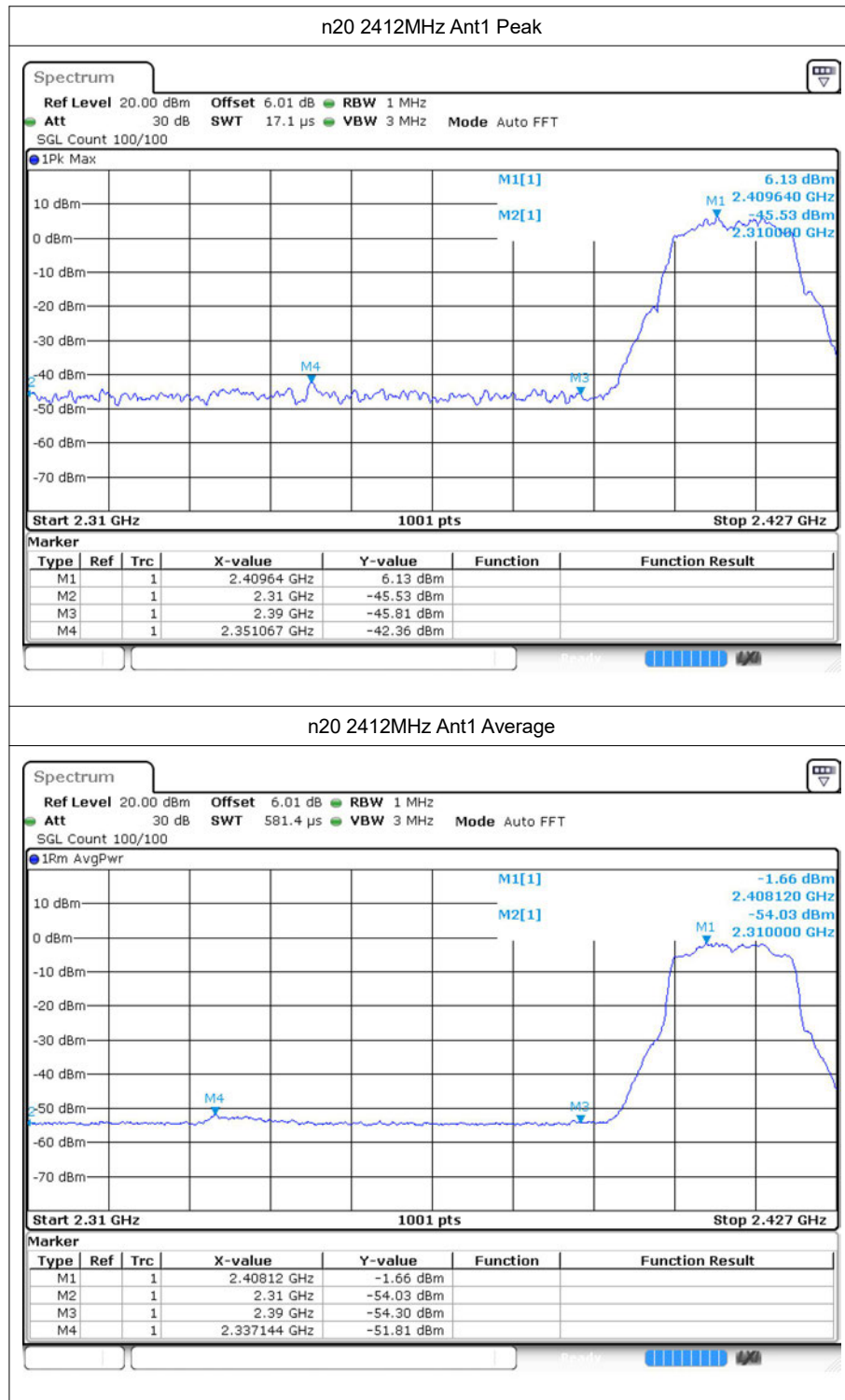
7.2 Test Graphs

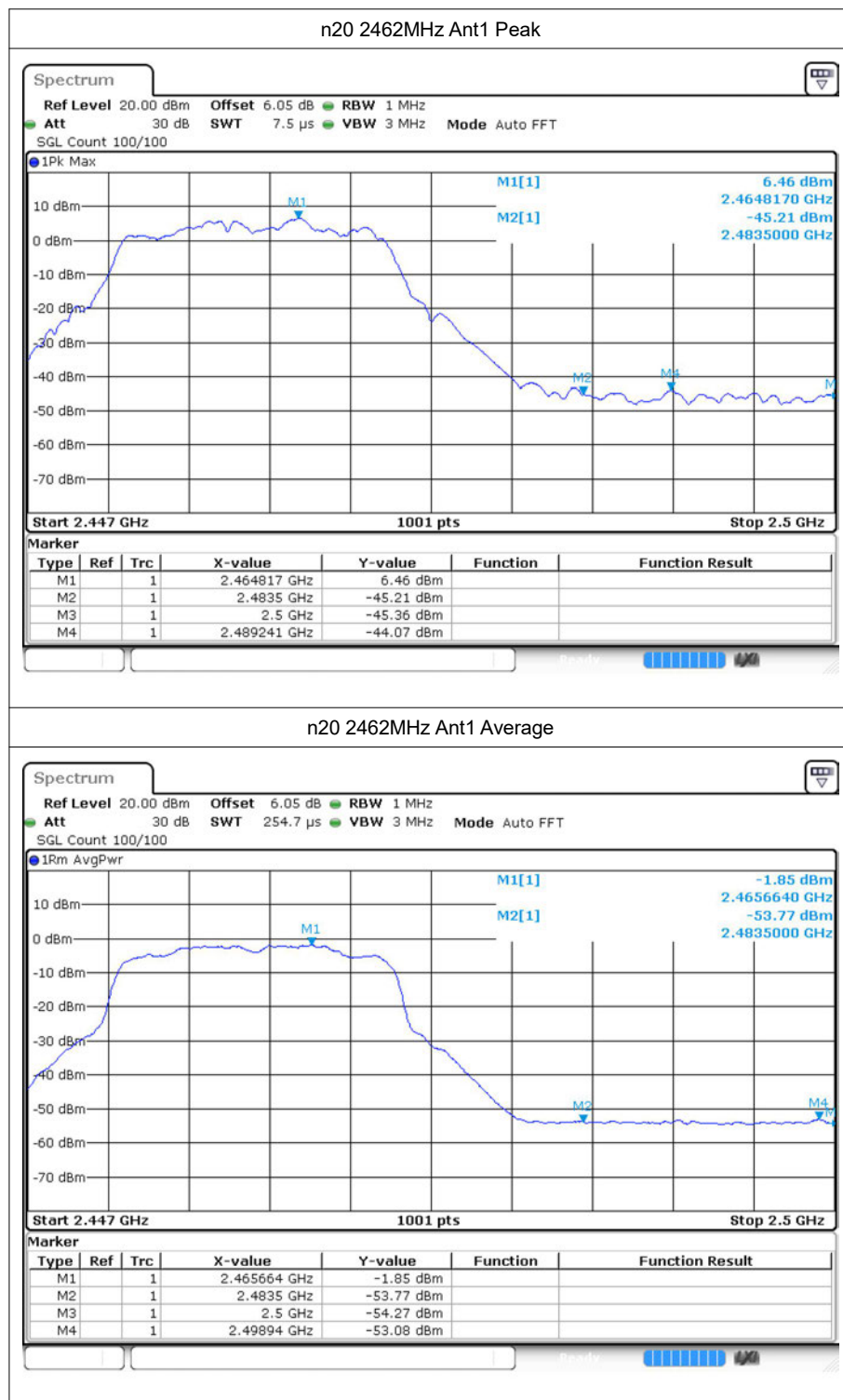












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