



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Rugged Tablet

Trade Mark: CENAVA

Test Model: A10ST

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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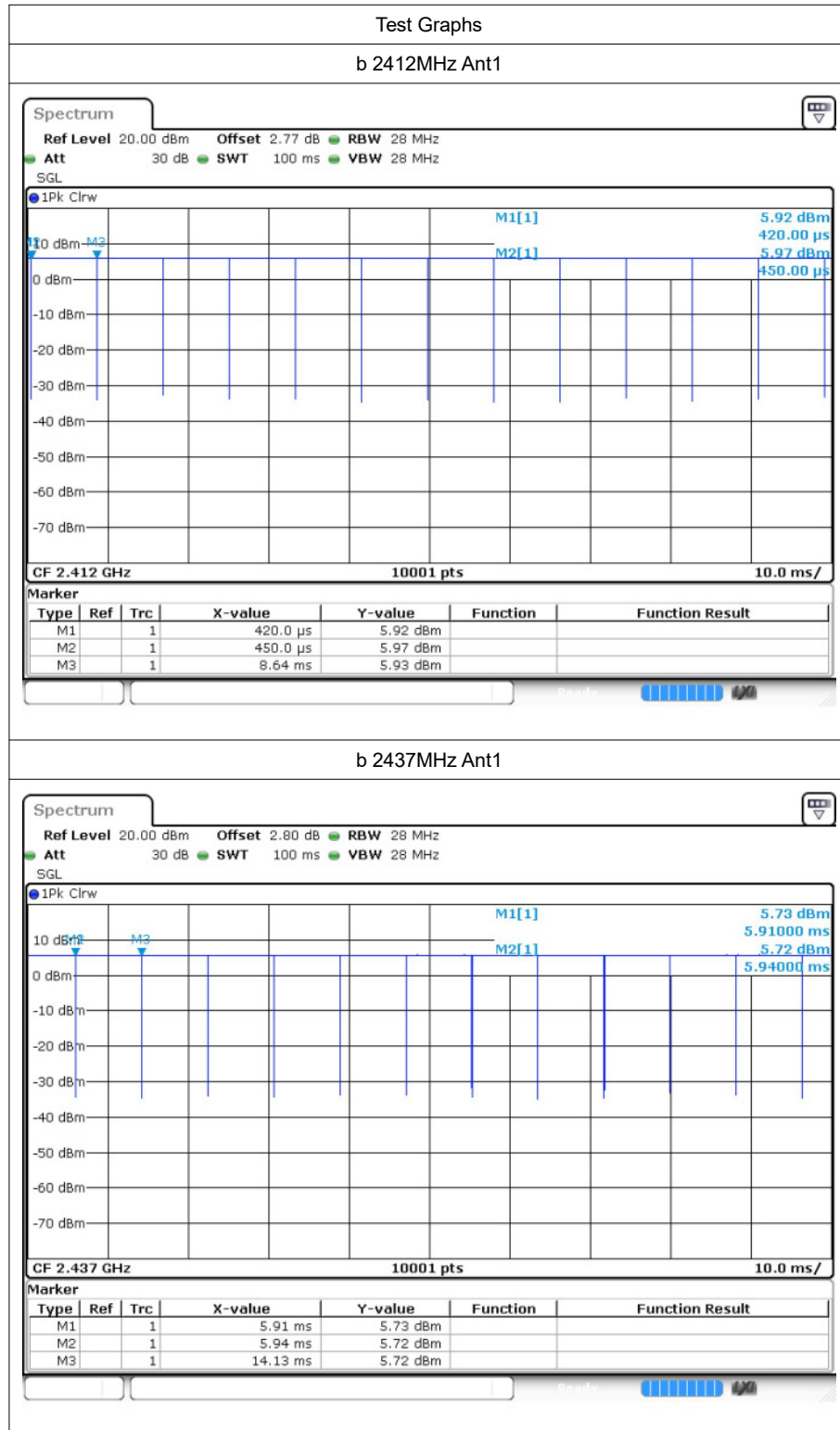


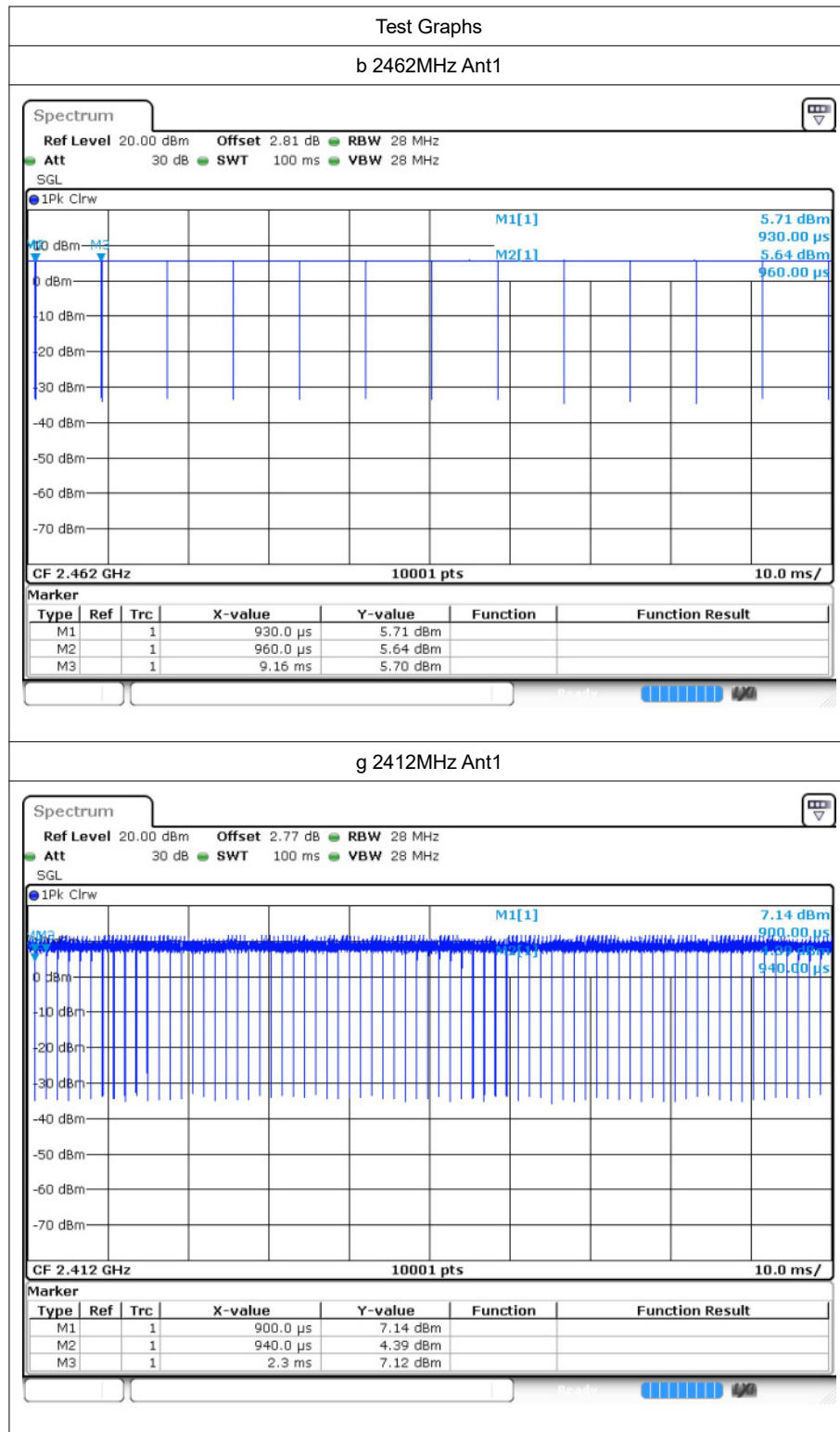
1 Duty Cycle

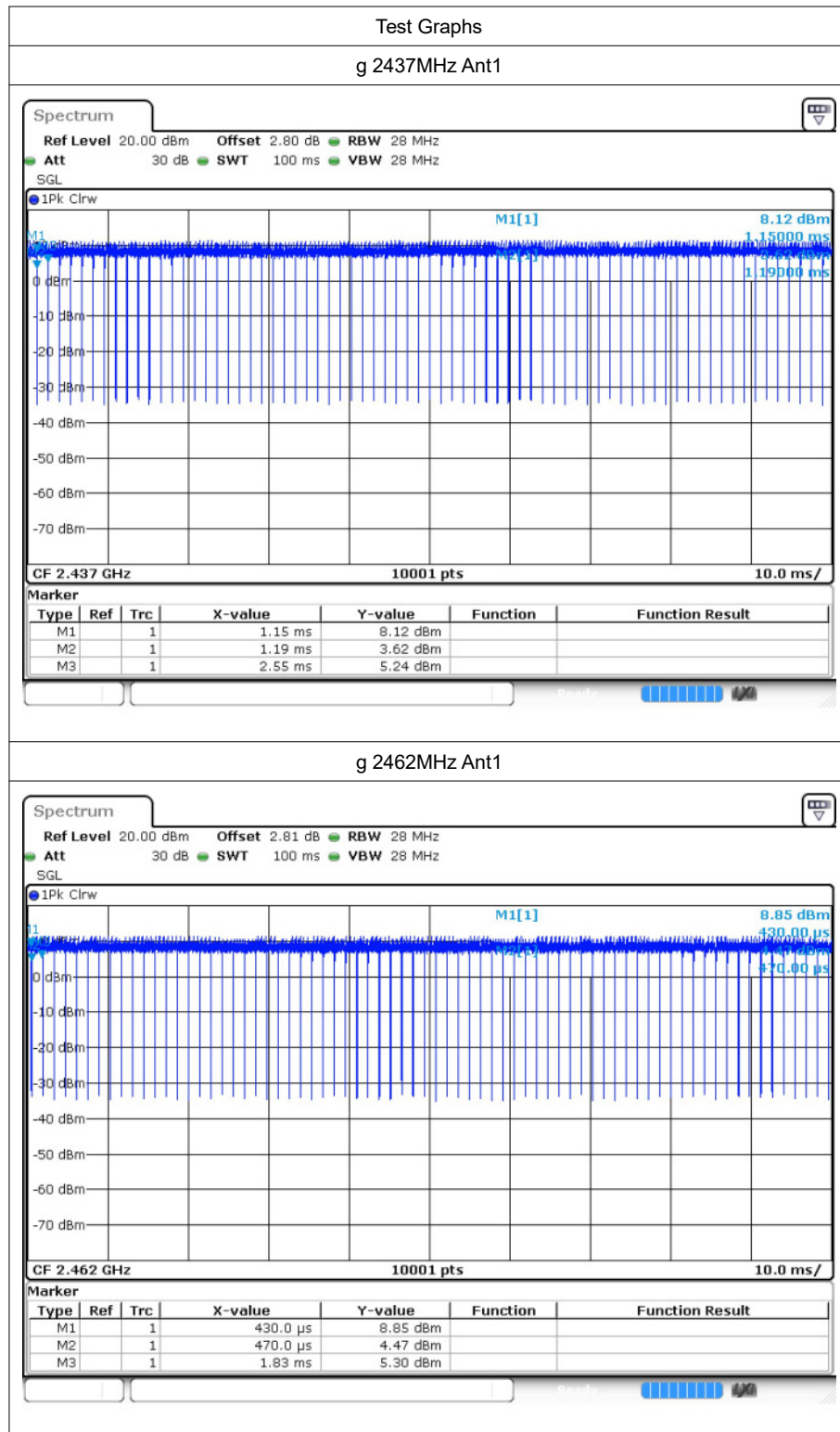
1.1 Test Result

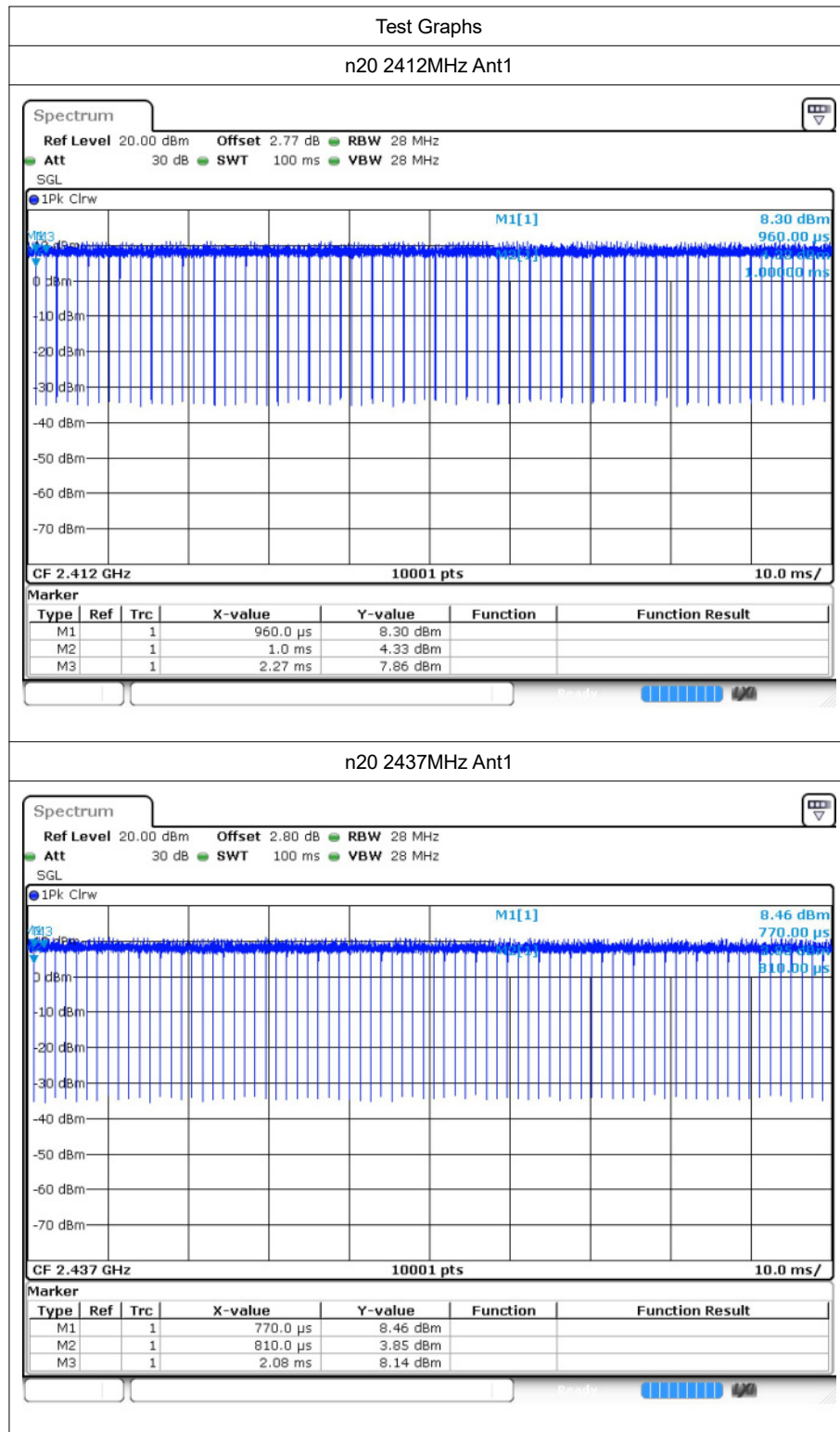
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor	1/T (kHz)
b	2412	Ant1	99.74	0.01	0.12
b	2437	Ant1	99.76	0.01	0.12
b	2462	Ant1	99.74	0.01	0.12
g	2412	Ant1	98.17	0.08	0.74
g	2437	Ant1	98.16	0.08	0.74
g	2462	Ant1	98.12	0.08	0.74
n20	2412	Ant1	98.02	0.09	0.79
n20	2437	Ant1	98.04	0.09	0.79
n20	2462	Ant1	98	0.09	0.78
n40	2422	Ant1	96.17	0.17	1.56
n40	2437	Ant1	96.19	0.17	1.56
n40	2452	Ant1	96.17	0.17	1.59

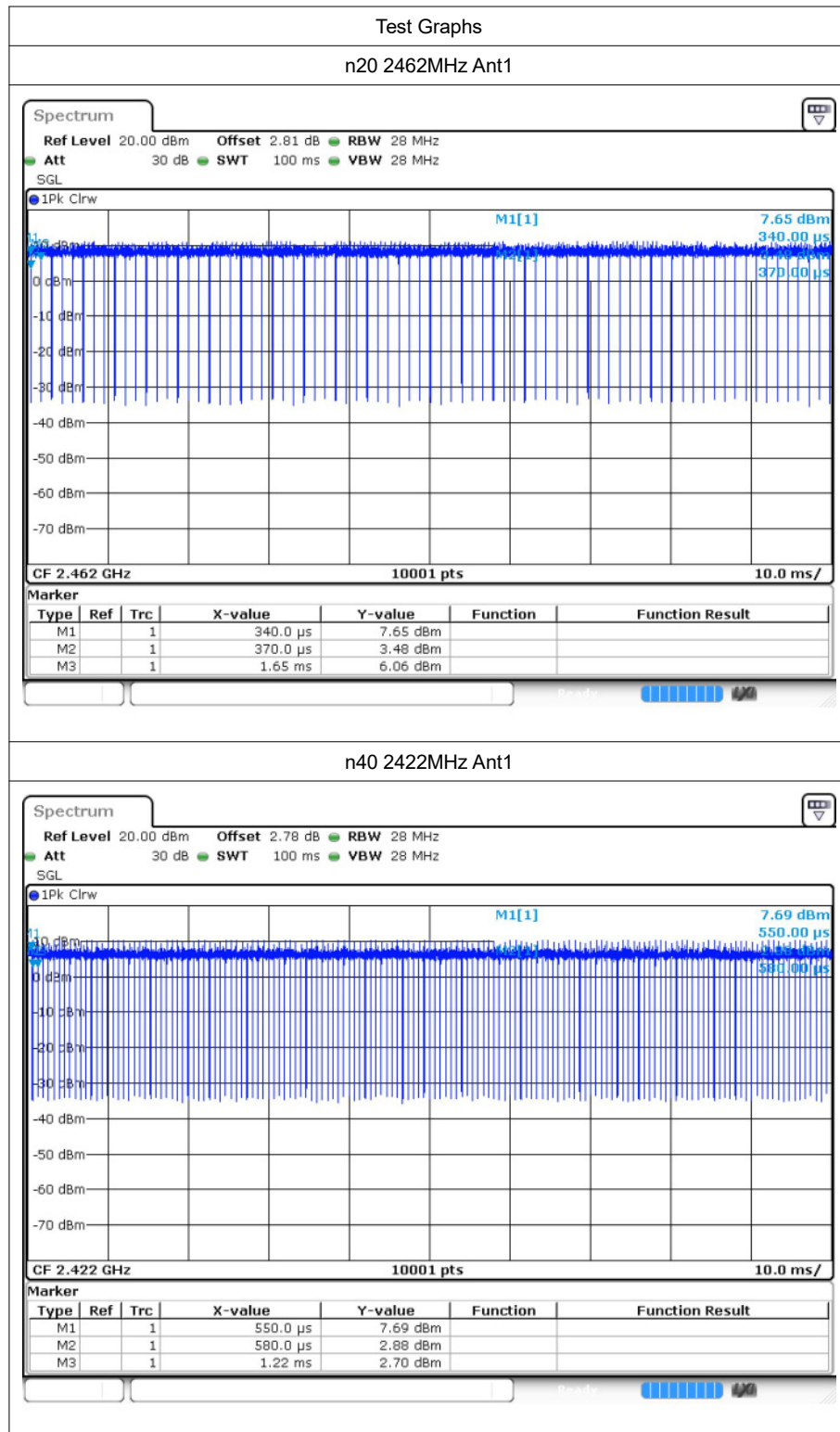
1.2 Test Graphs

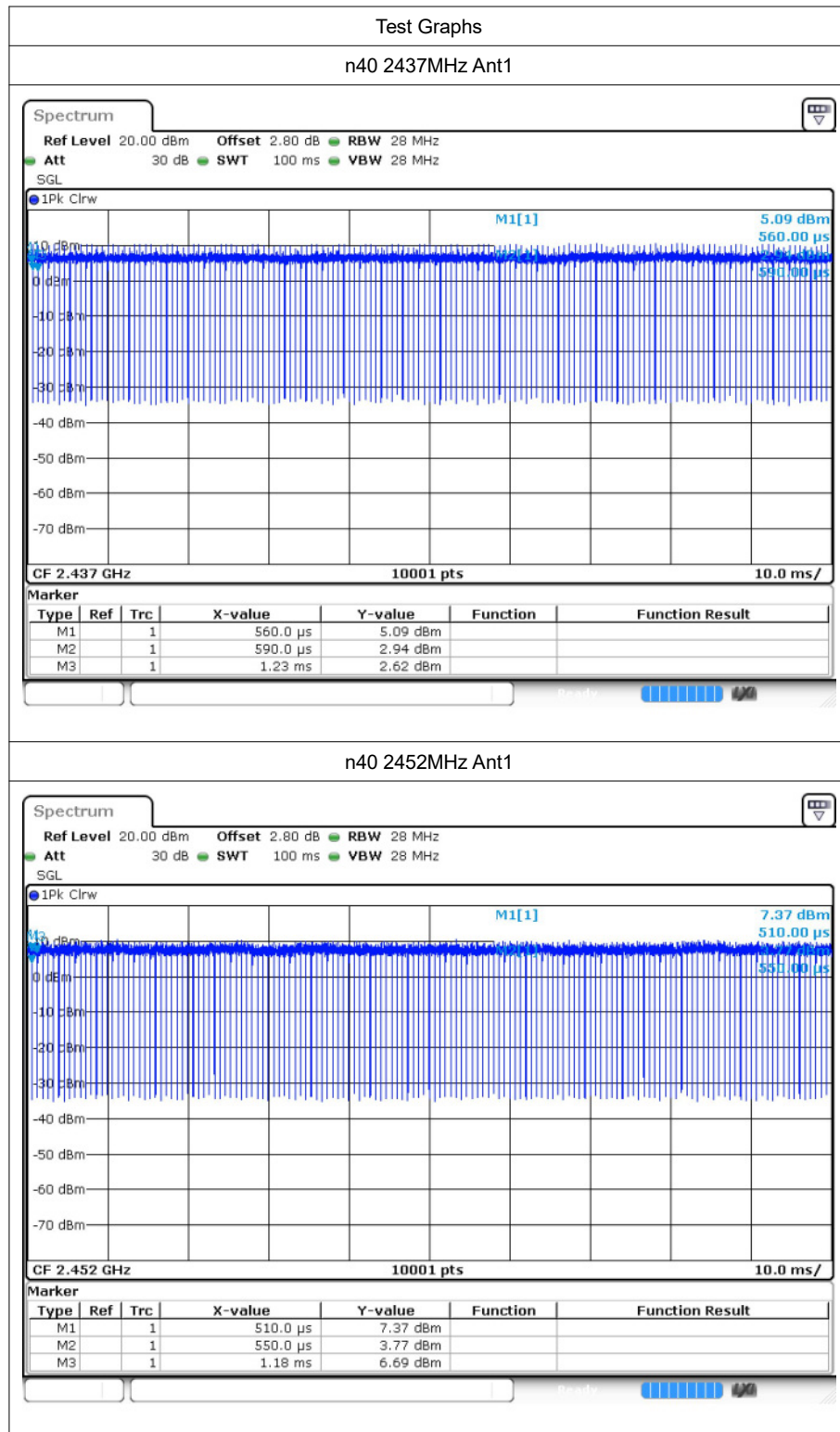












2 Maximum Conducted Output Power

2.1 Test Result

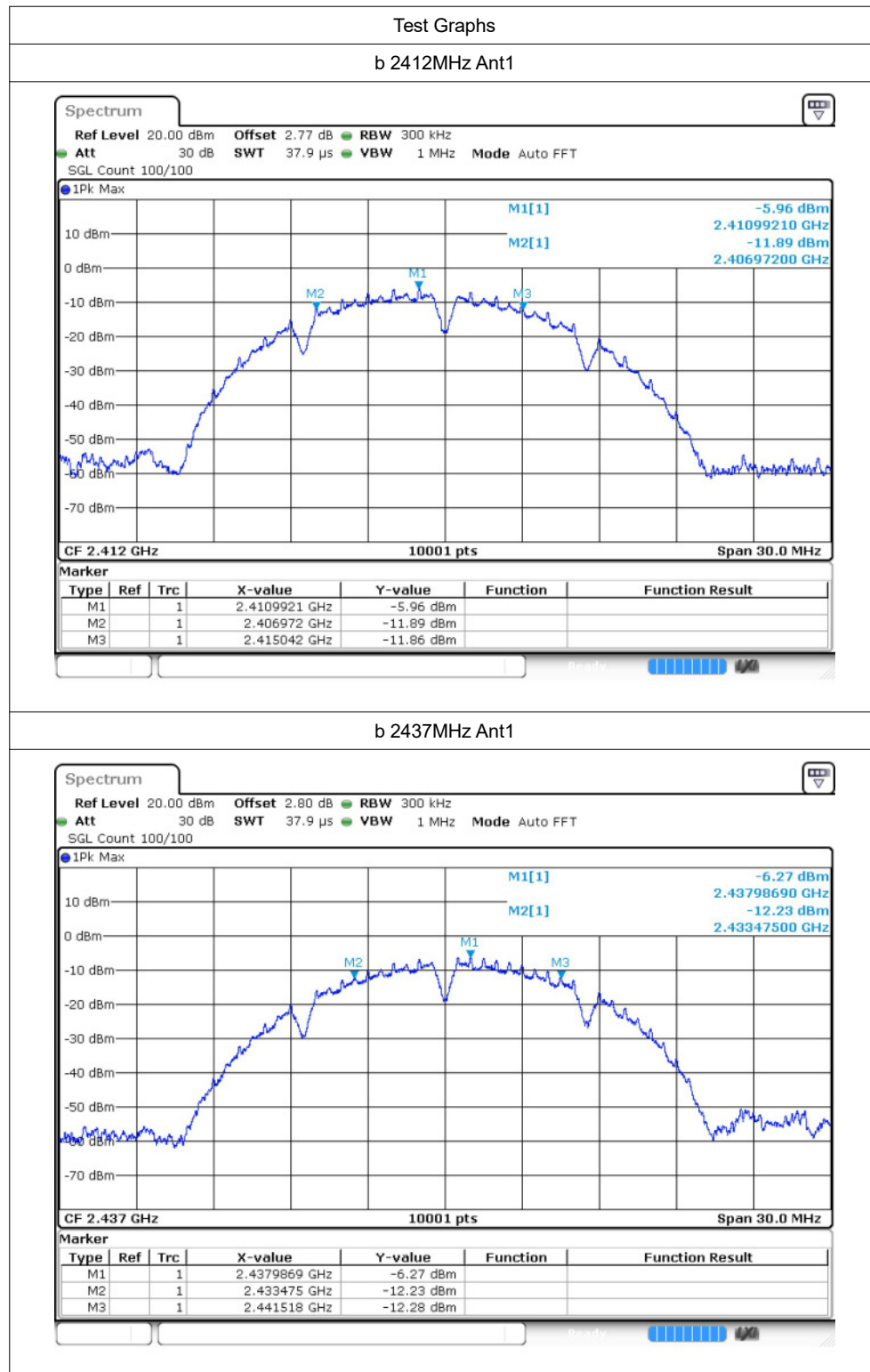
Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant1	7.7	30	Pass
b	2437	Ant1	7.28	30	Pass
b	2462	Ant1	7.36	30	Pass
g	2412	Ant1	7.31	30	Pass
g	2437	Ant1	7.36	30	Pass
g	2462	Ant1	7.28	30	Pass
n20	2412	Ant1	7.06	30	Pass
n20	2437	Ant1	7.14	30	Pass
n20	2462	Ant1	6.99	30	Pass
n40	2422	Ant1	7.19	30	Pass
n40	2437	Ant1	7.31	30	Pass
n40	2452	Ant1	7.77	30	Pass

3 -6dB Bandwidth

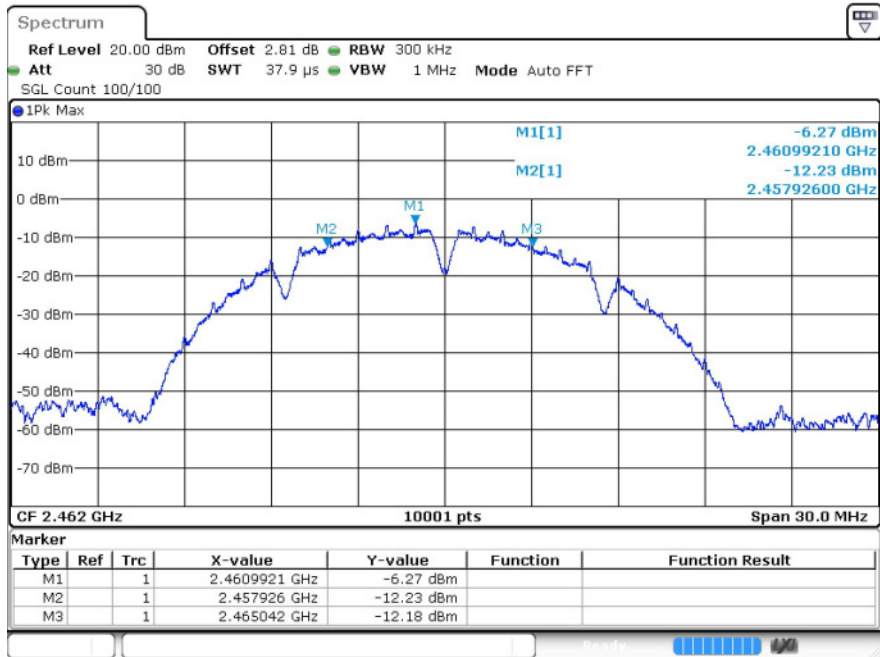
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	8.07	0.5	Pass
b	2437	Ant1	8.043	0.5	Pass
b	2462	Ant1	7.116	0.5	Pass
g	2412	Ant1	14.292	0.5	Pass
g	2437	Ant1	15.702	0.5	Pass
g	2462	Ant1	15.834	0.5	Pass
n20	2412	Ant1	12.591	0.5	Pass
n20	2437	Ant1	16.461	0.5	Pass
n20	2462	Ant1	16.434	0.5	Pass
n40	2422	Ant1	21.702	0.5	Pass
n40	2437	Ant1	22.56	0.5	Pass
n40	2452	Ant1	10.644	0.5	Pass

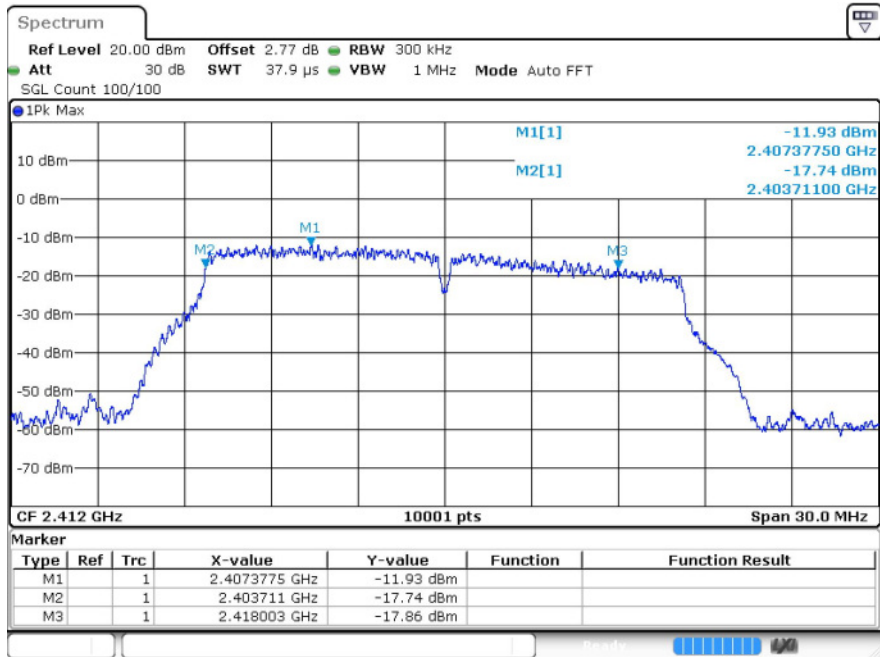
3.2 Test Graphs



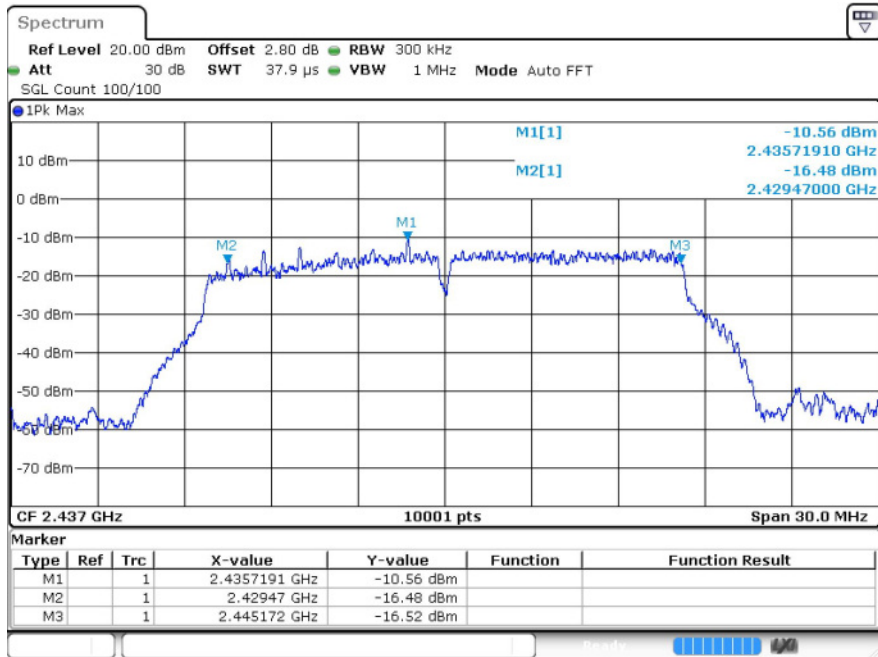
b 2462MHz Ant1



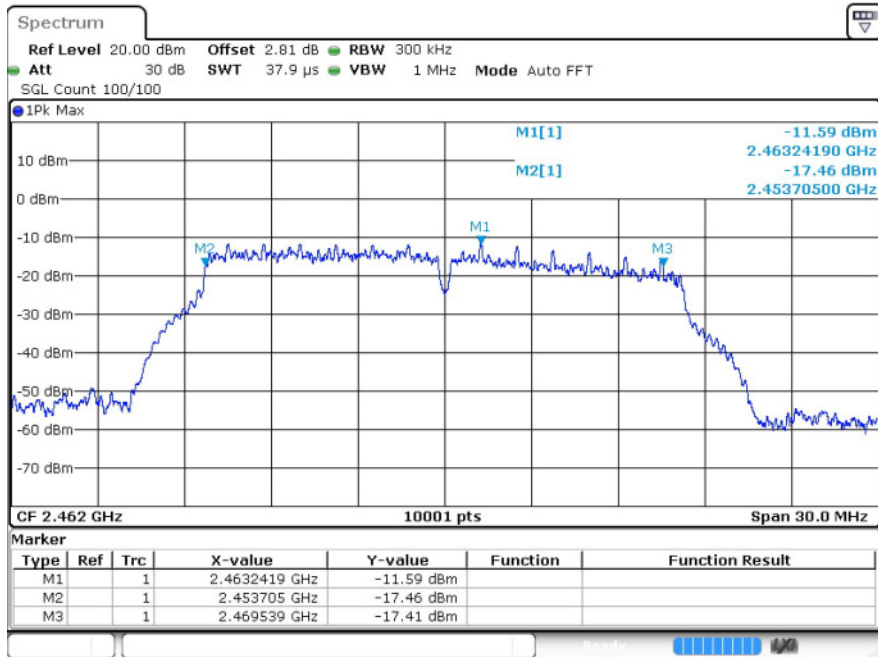
g 2412MHz Ant1

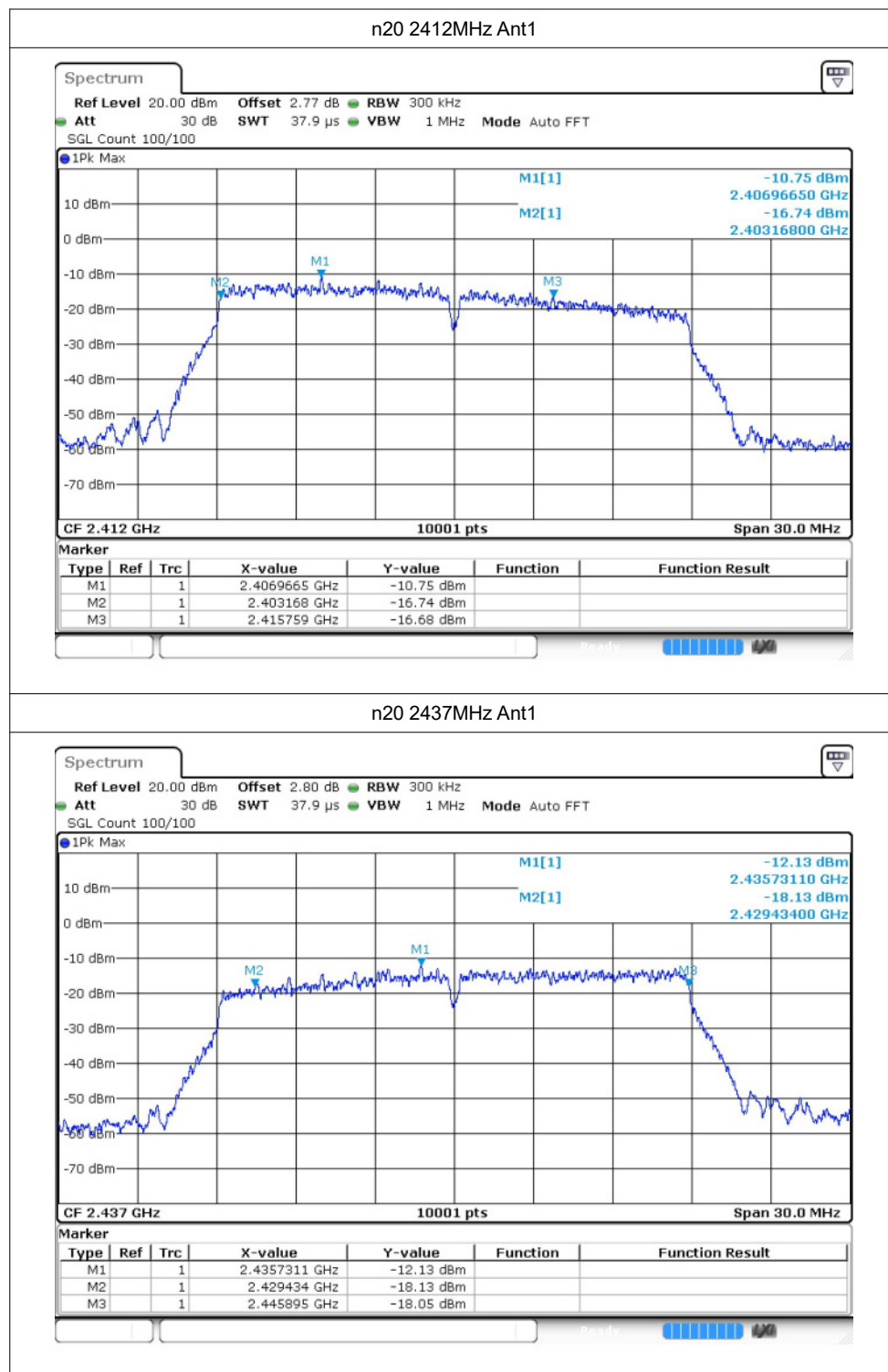


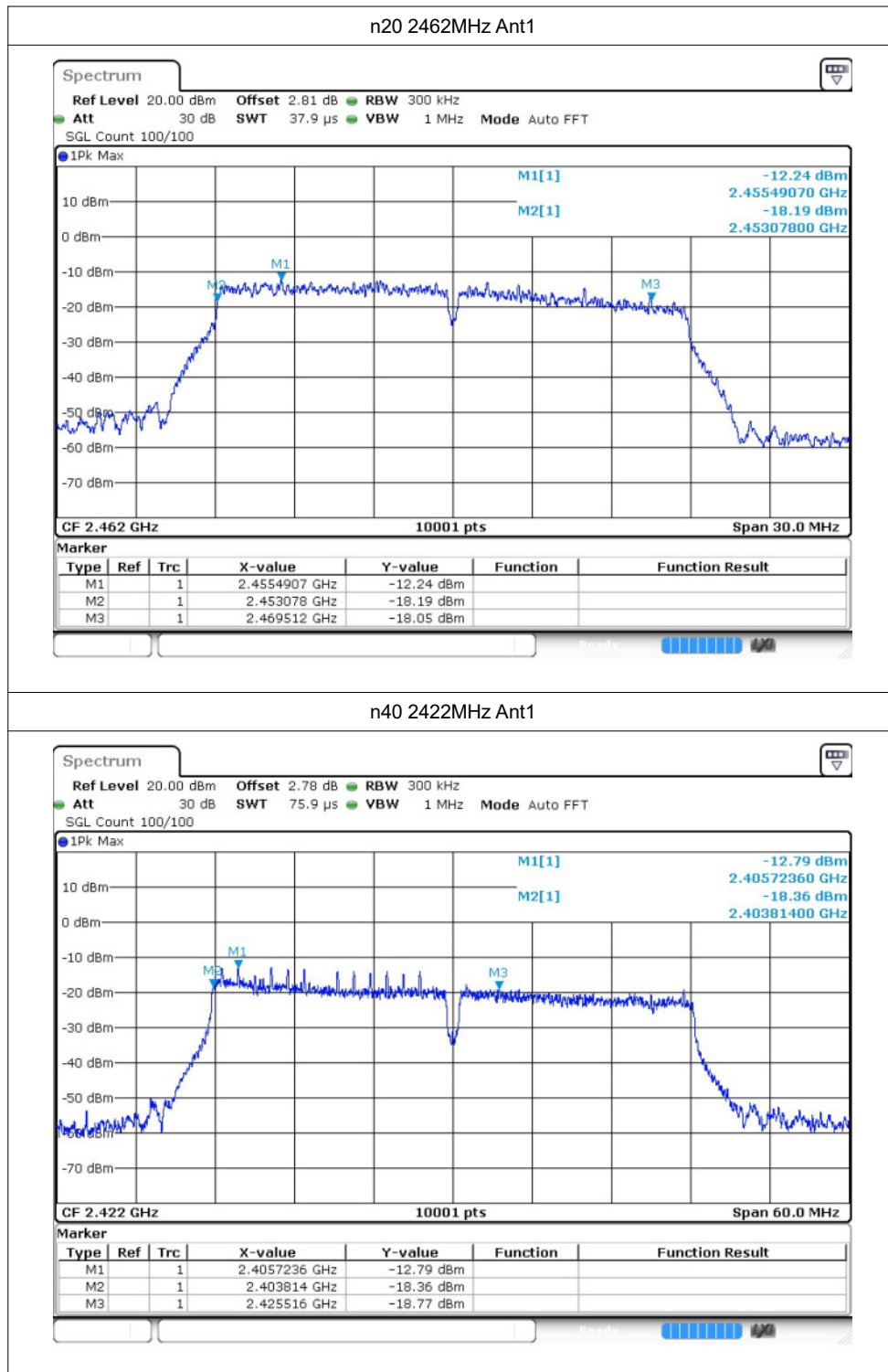
g 2437MHz Ant1

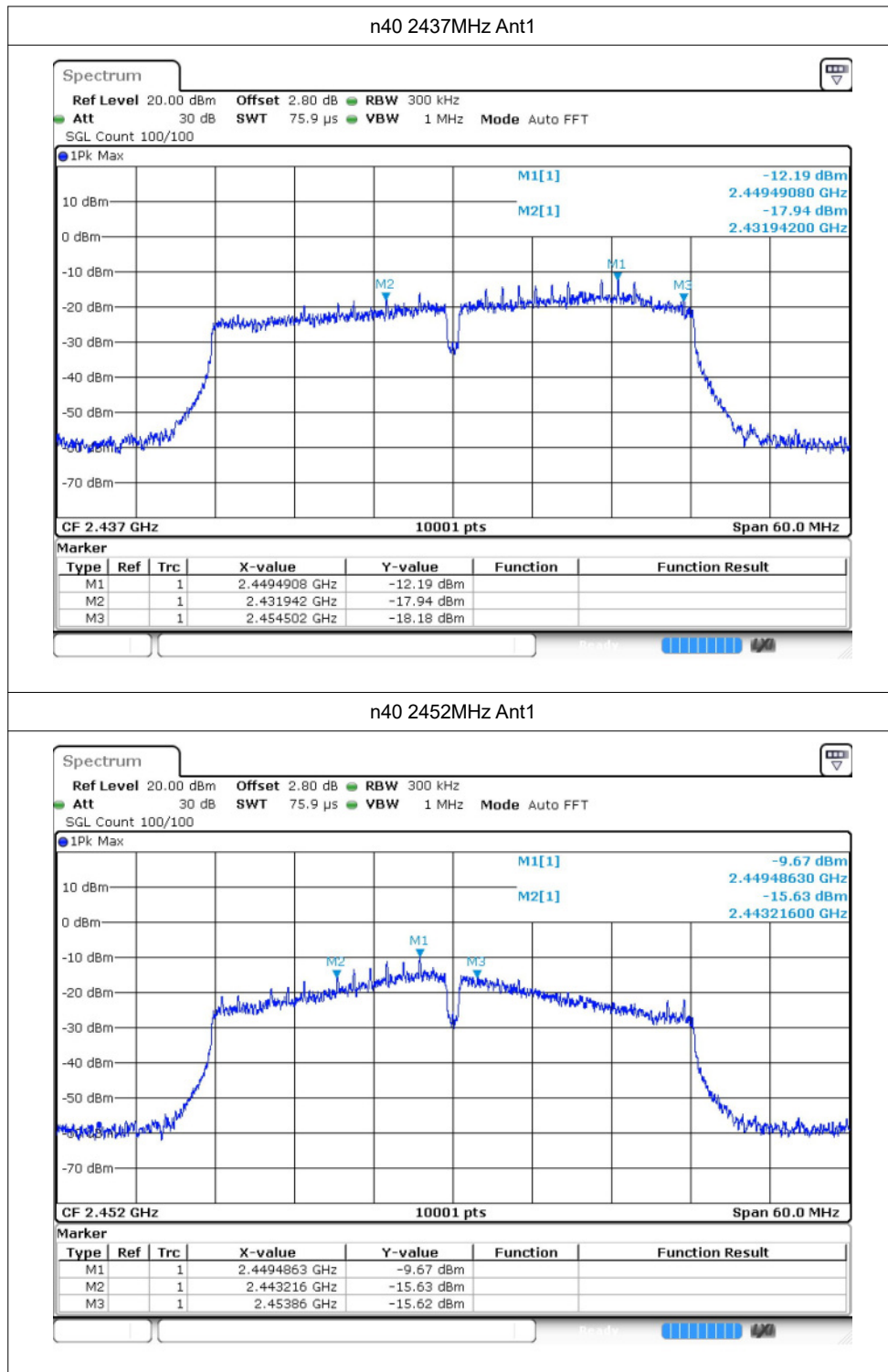


g 2462MHz Ant1







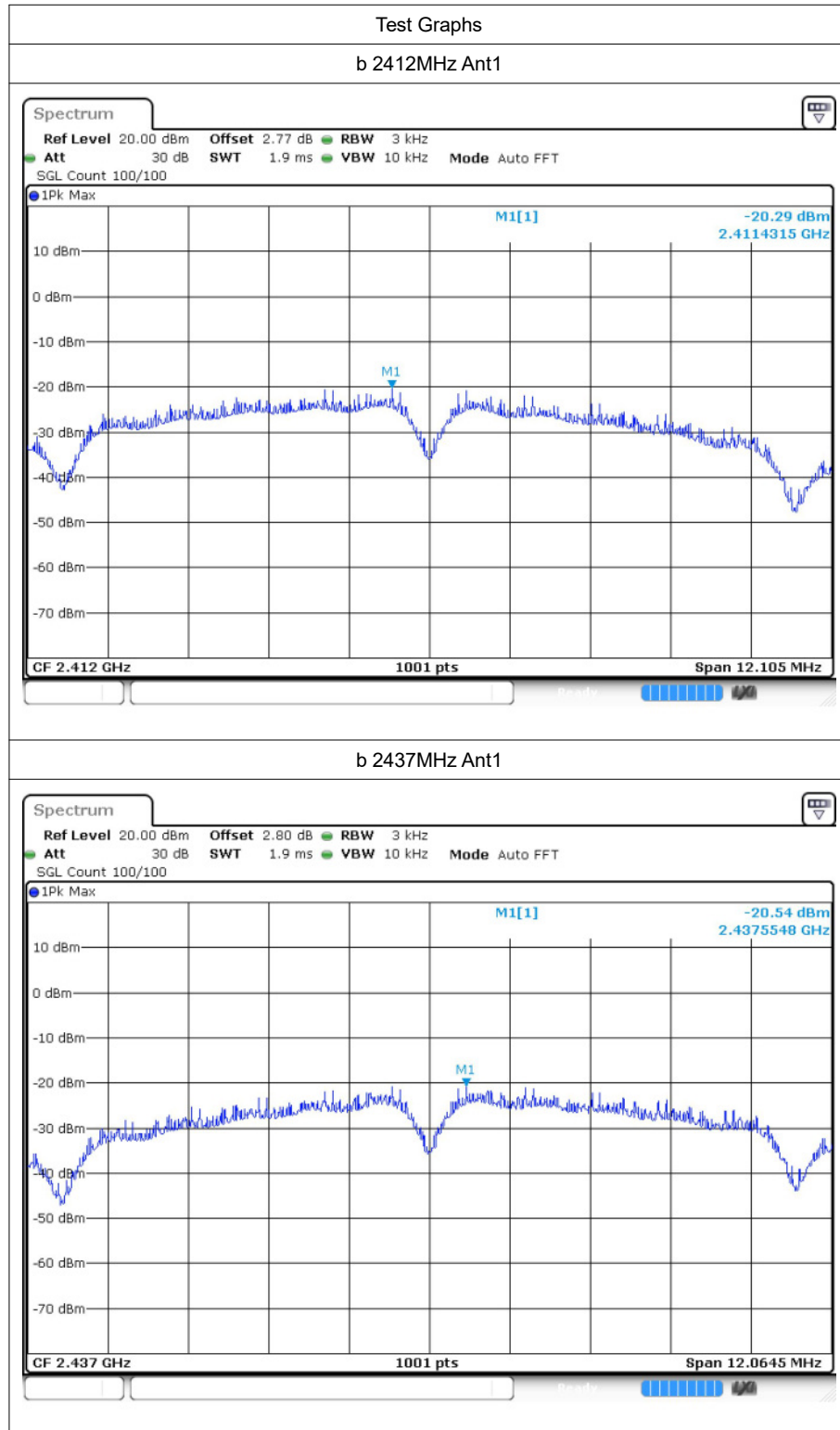


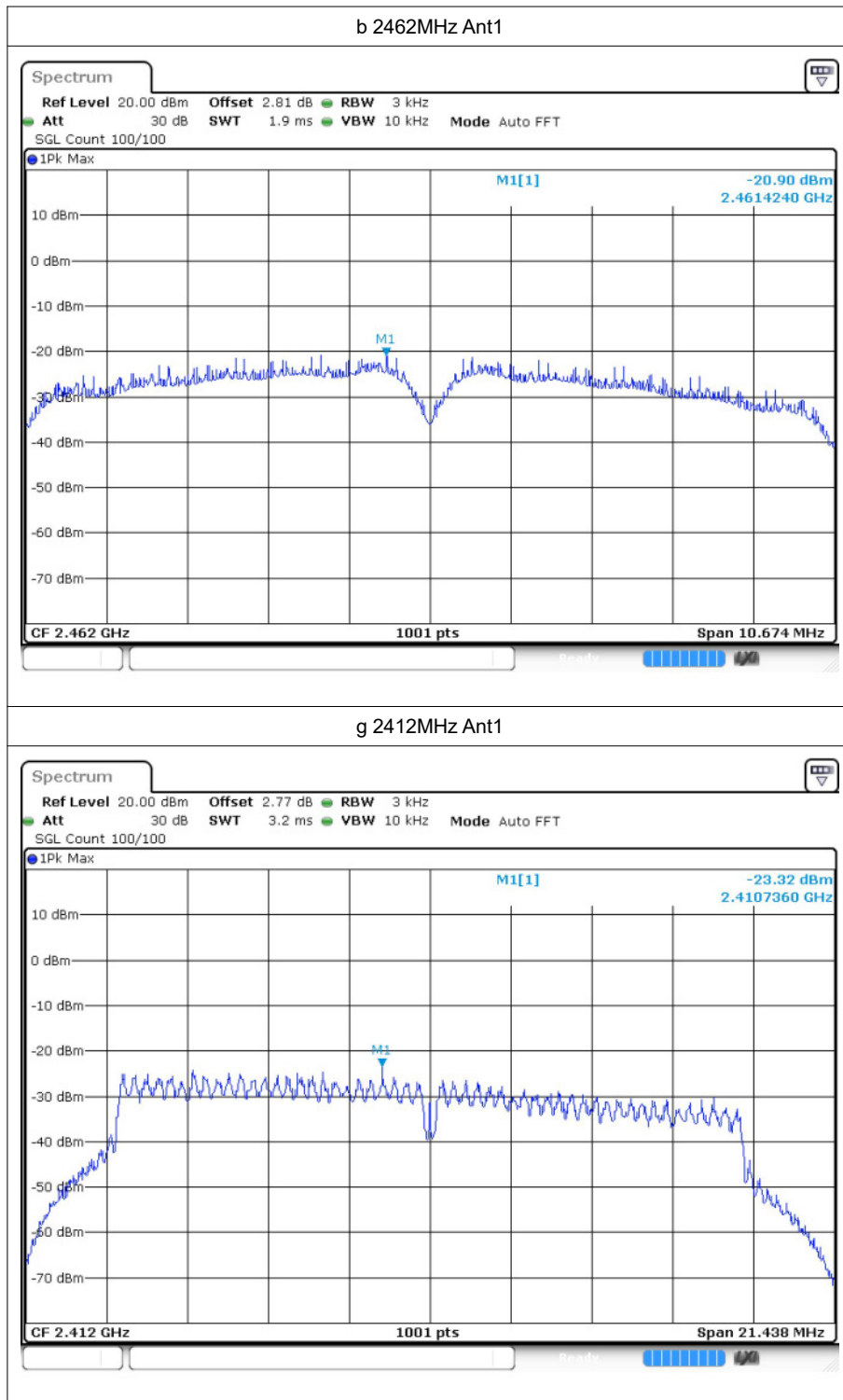
4 Maximum Power Spectral Density Level

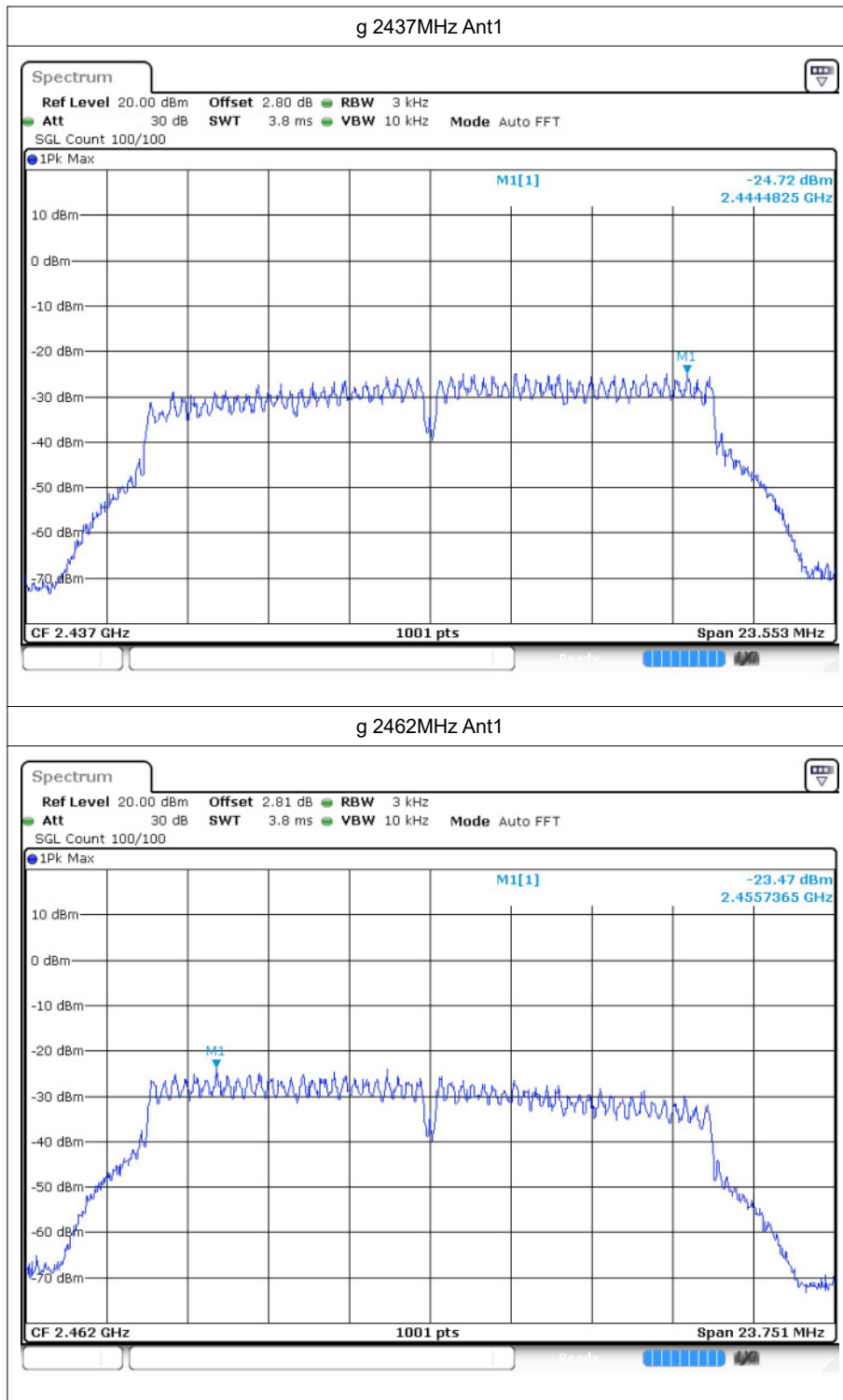
4.1 Test Result

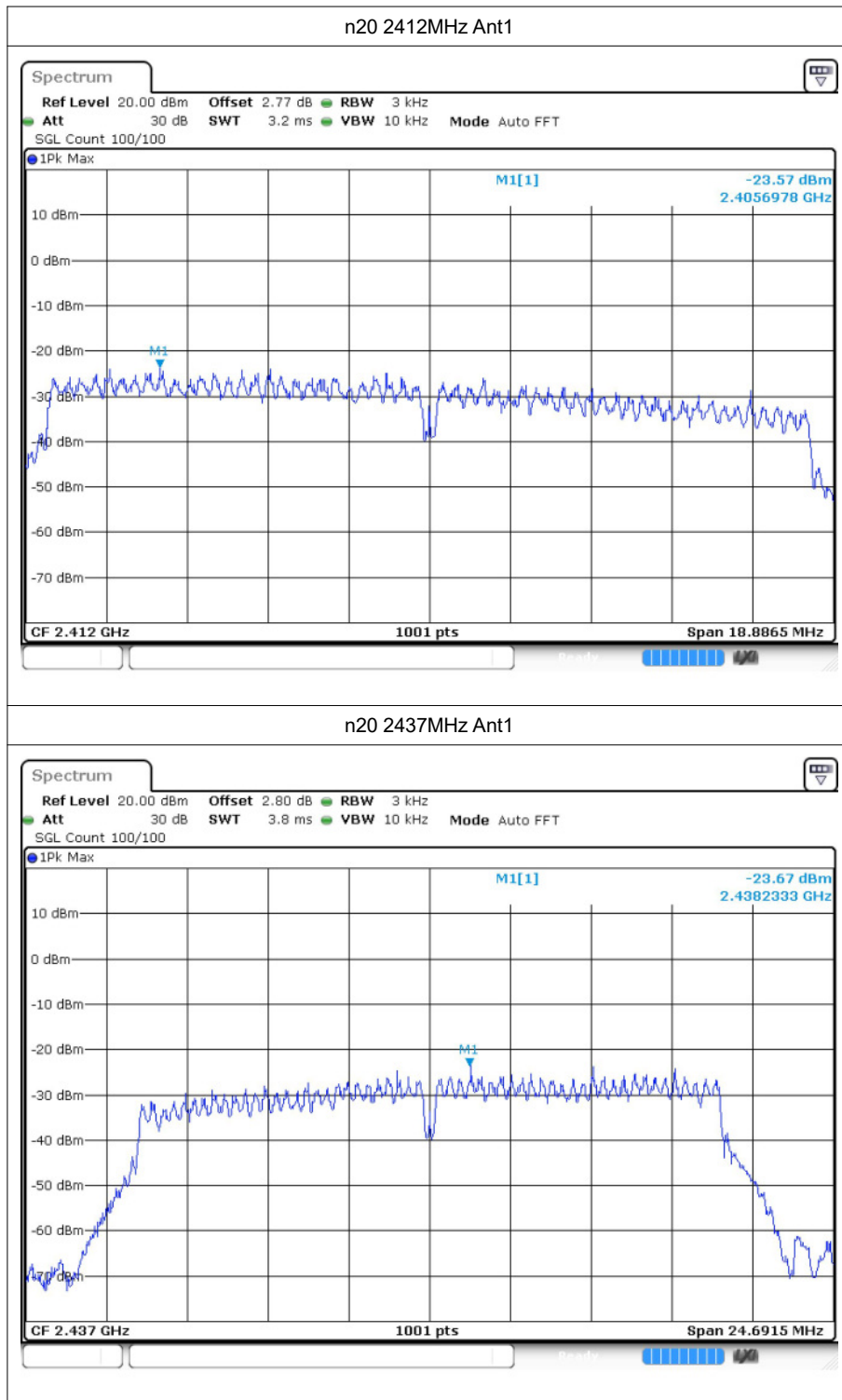
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
b	2412	Ant1	-20.29	≤8	Pass
b	2437	Ant1	-20.54	≤8	Pass
b	2462	Ant1	-20.9	≤8	Pass
g	2412	Ant1	-23.32	≤8	Pass
g	2437	Ant1	-24.72	≤8	Pass
g	2462	Ant1	-23.47	≤8	Pass
n20	2412	Ant1	-23.57	≤8	Pass
n20	2437	Ant1	-23.67	≤8	Pass
n20	2462	Ant1	-23.54	≤8	Pass
n40	2422	Ant1	-27.48	≤8	Pass
n40	2437	Ant1	-27.1	≤8	Pass
n40	2452	Ant1	-25	≤8	Pass

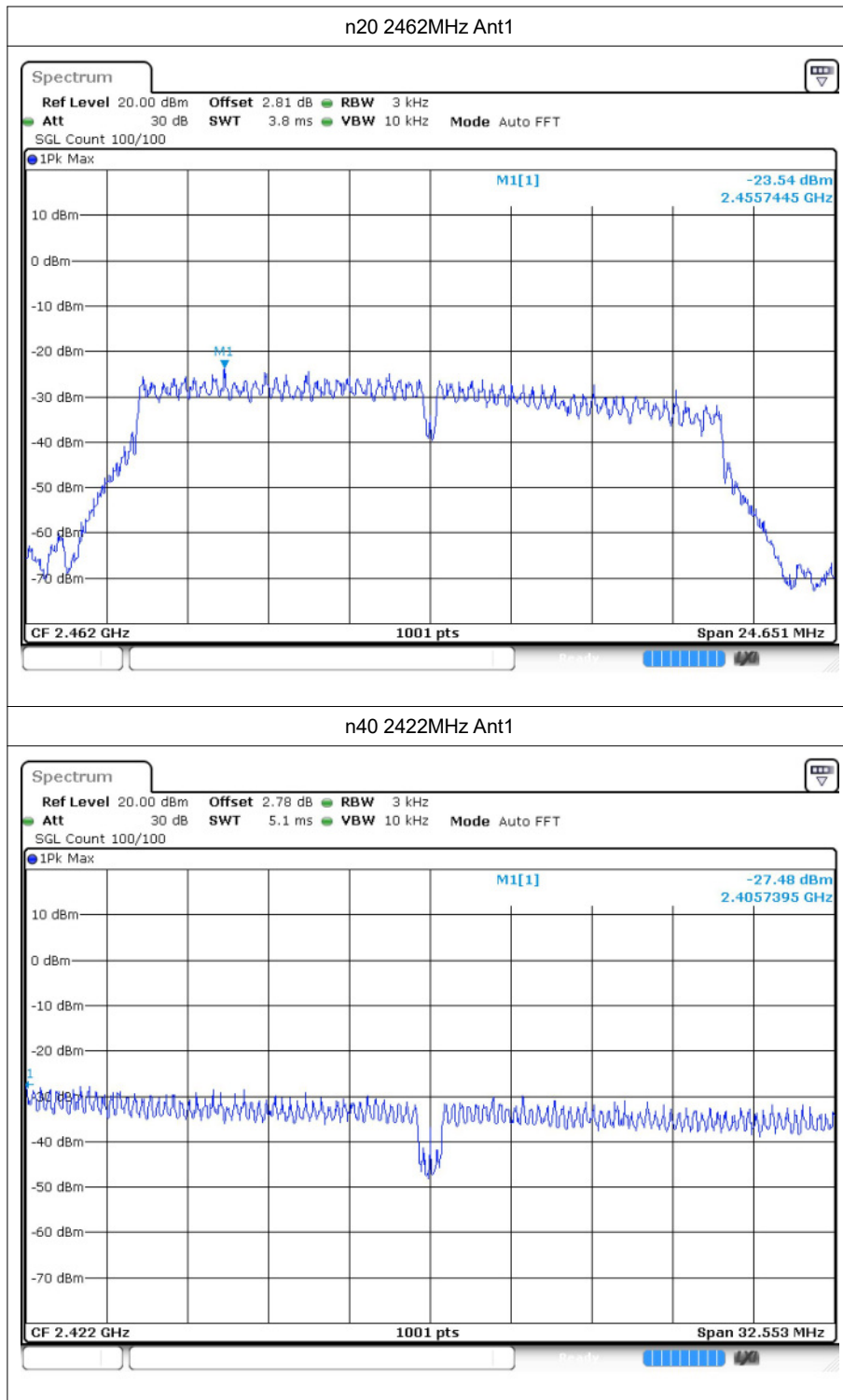
4.2 Test Graphs

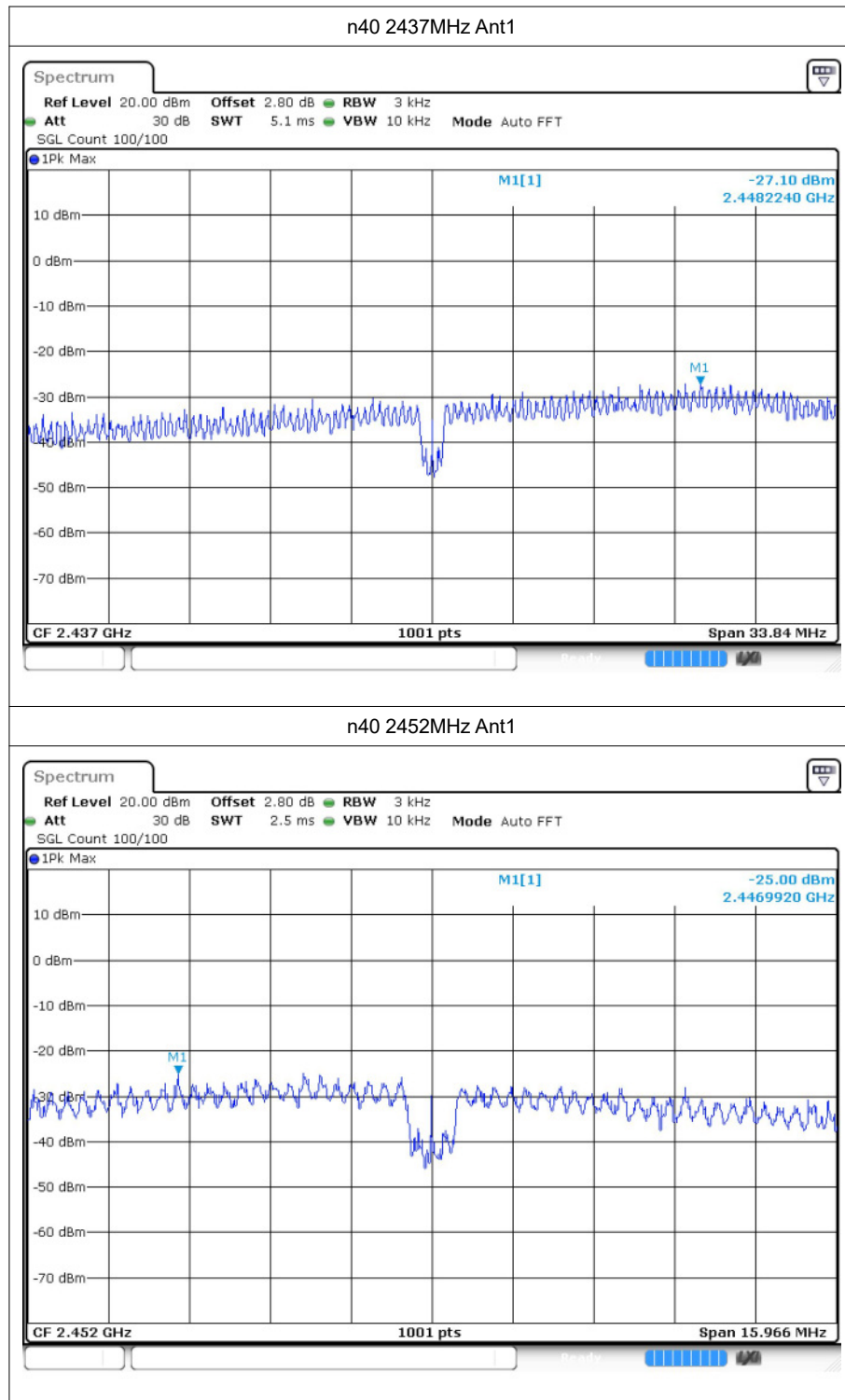












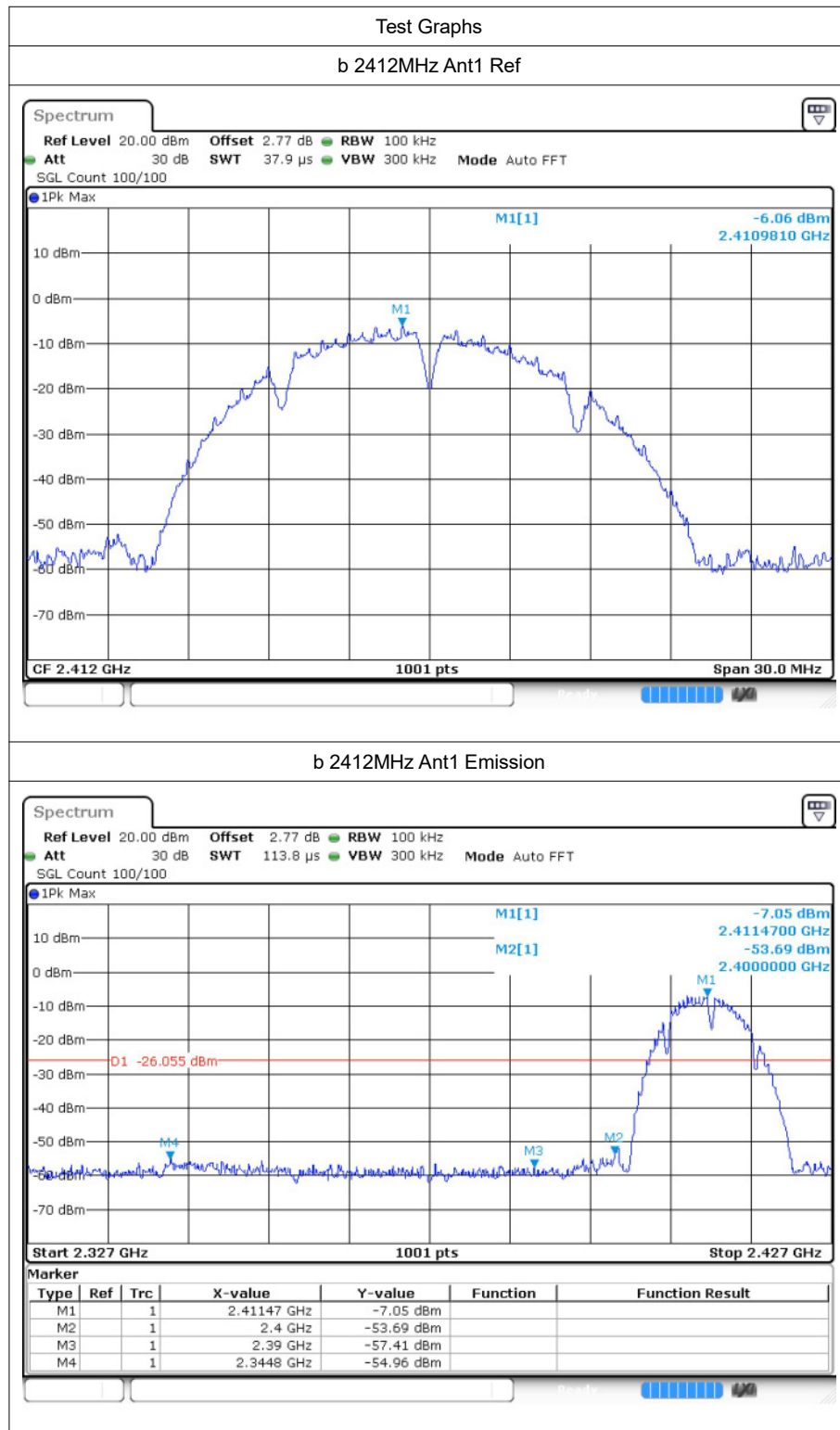


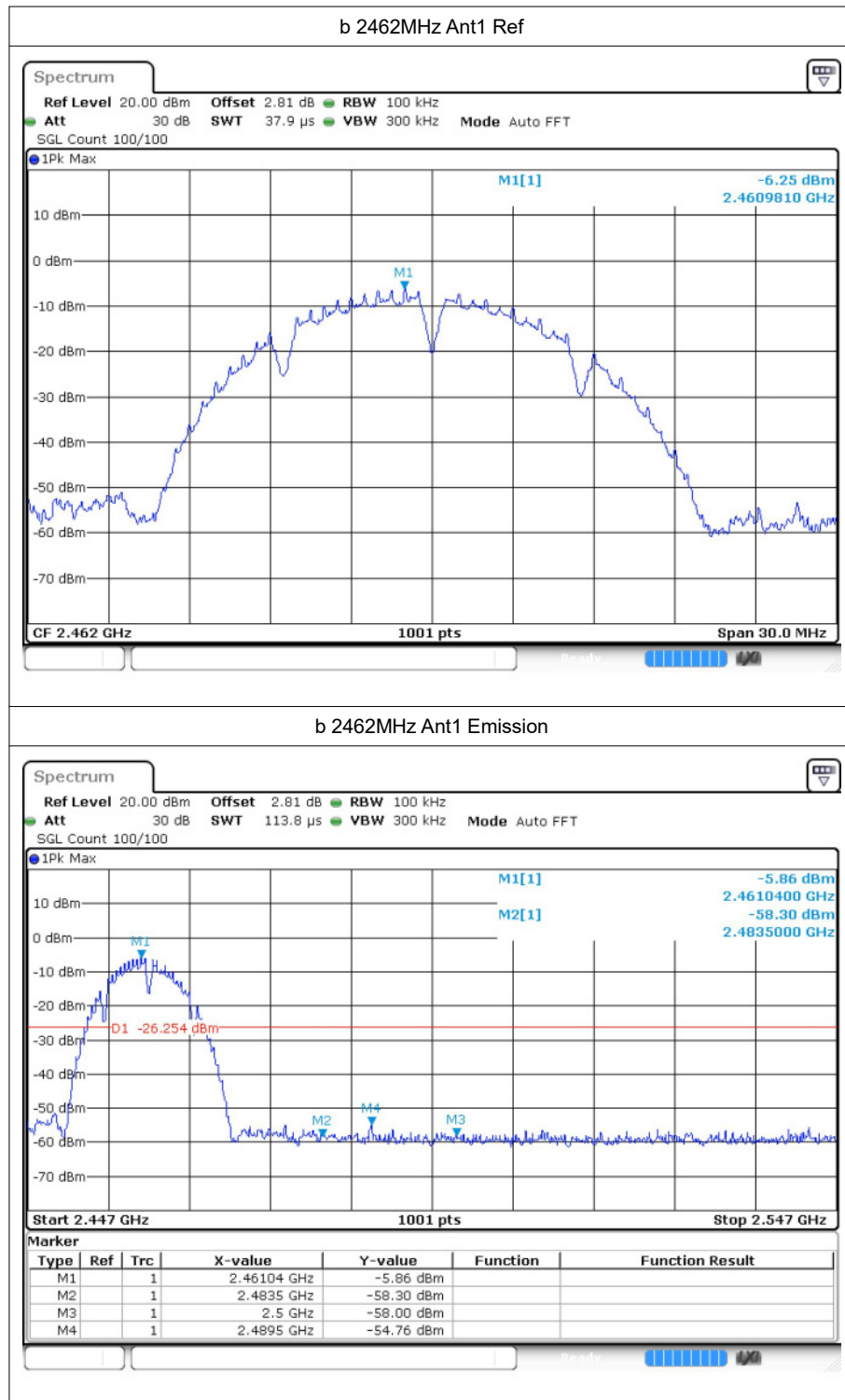
5 Band Edge

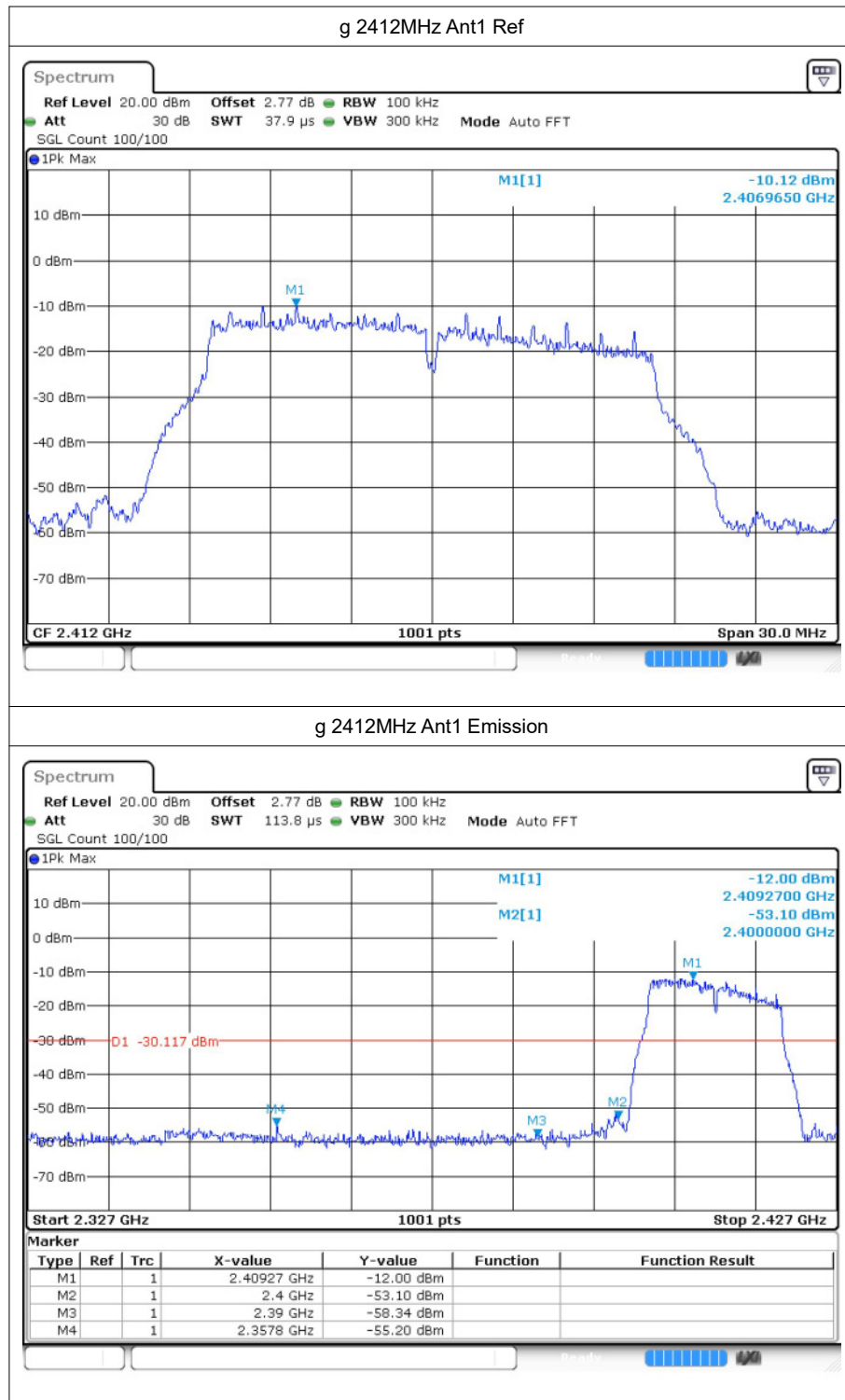
5.1 Test Result

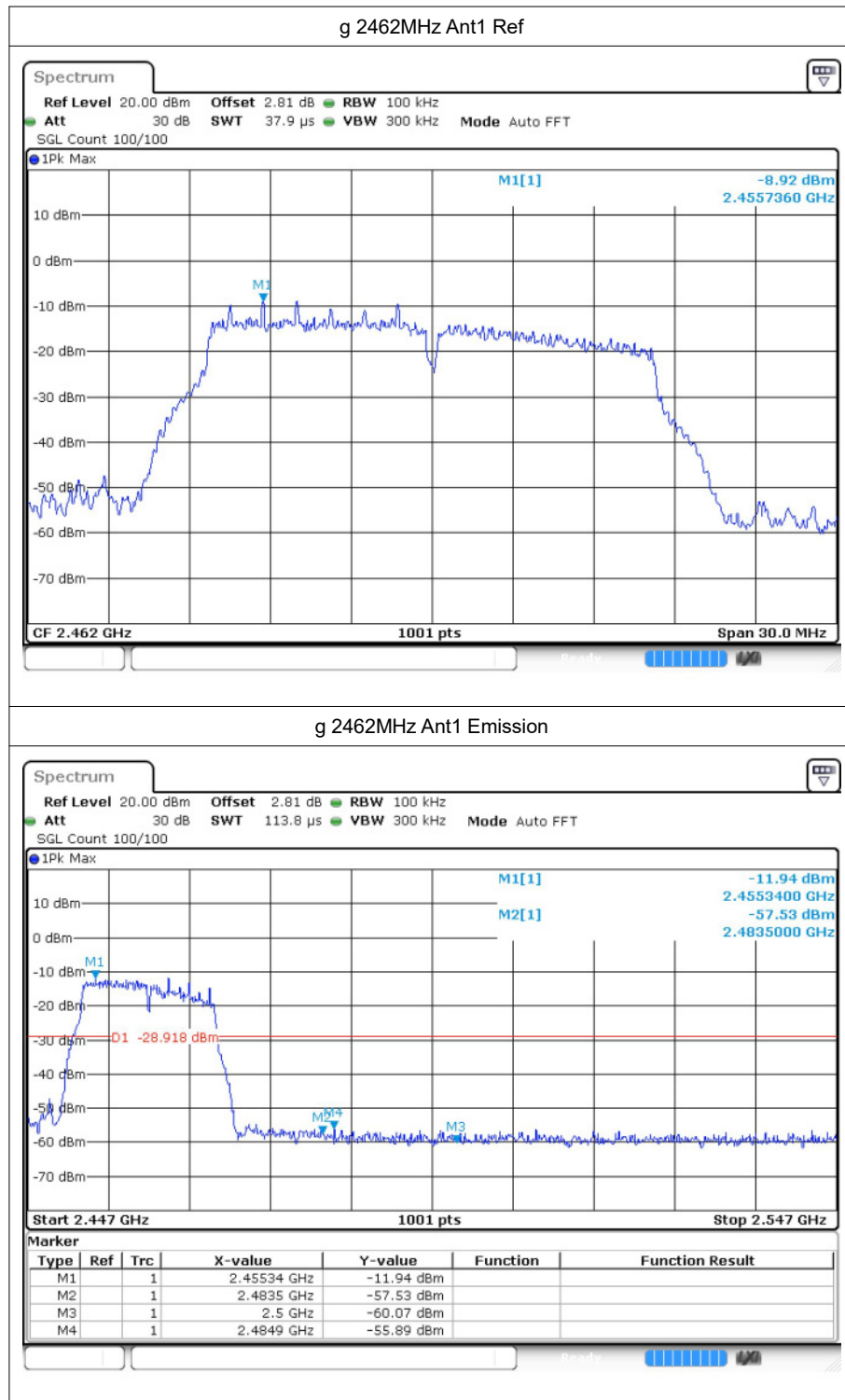
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-48.89	-20	Pass
b	2462	Ant1	-48.51	-20	Pass
g	2412	Ant1	-45.08	-20	Pass
g	2462	Ant1	-46.97	-20	Pass
n20	2412	Ant1	-42.52	-20	Pass
n20	2462	Ant1	-46.08	-20	Pass
n40	2422	Ant1	-40.97	-20	Pass
n40	2452	Ant1	-46.54	-20	Pass

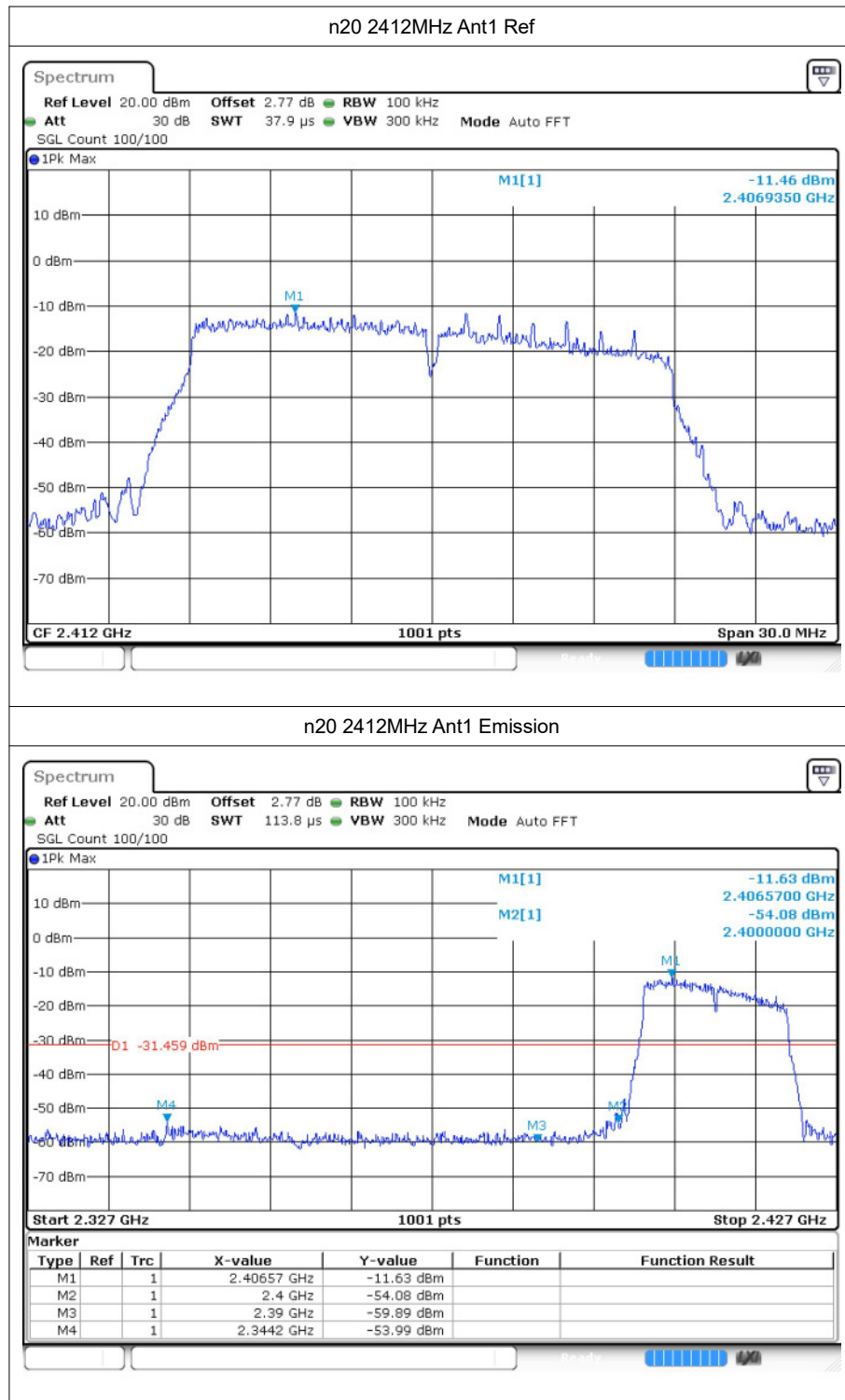
5.2 Test Graphs

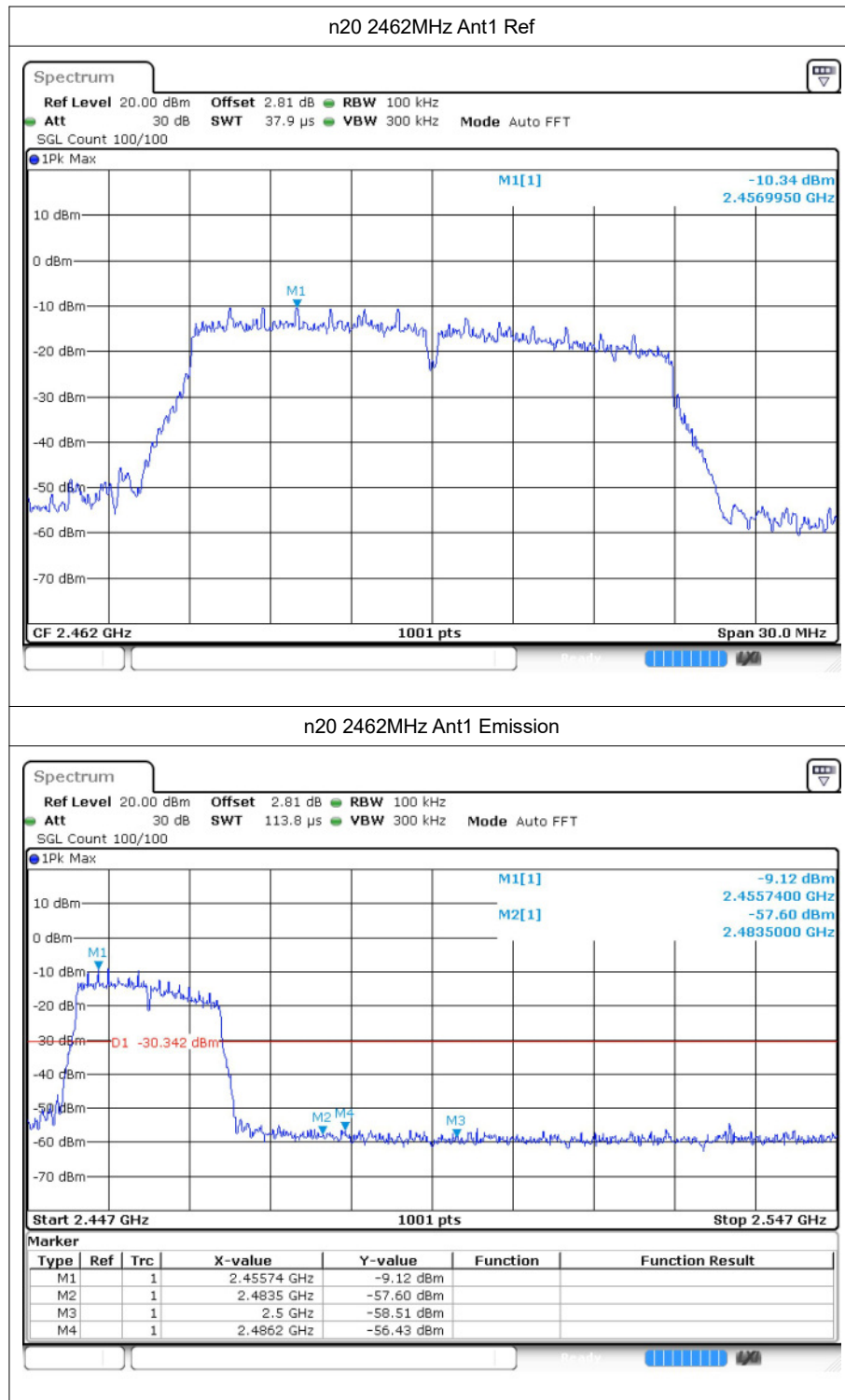


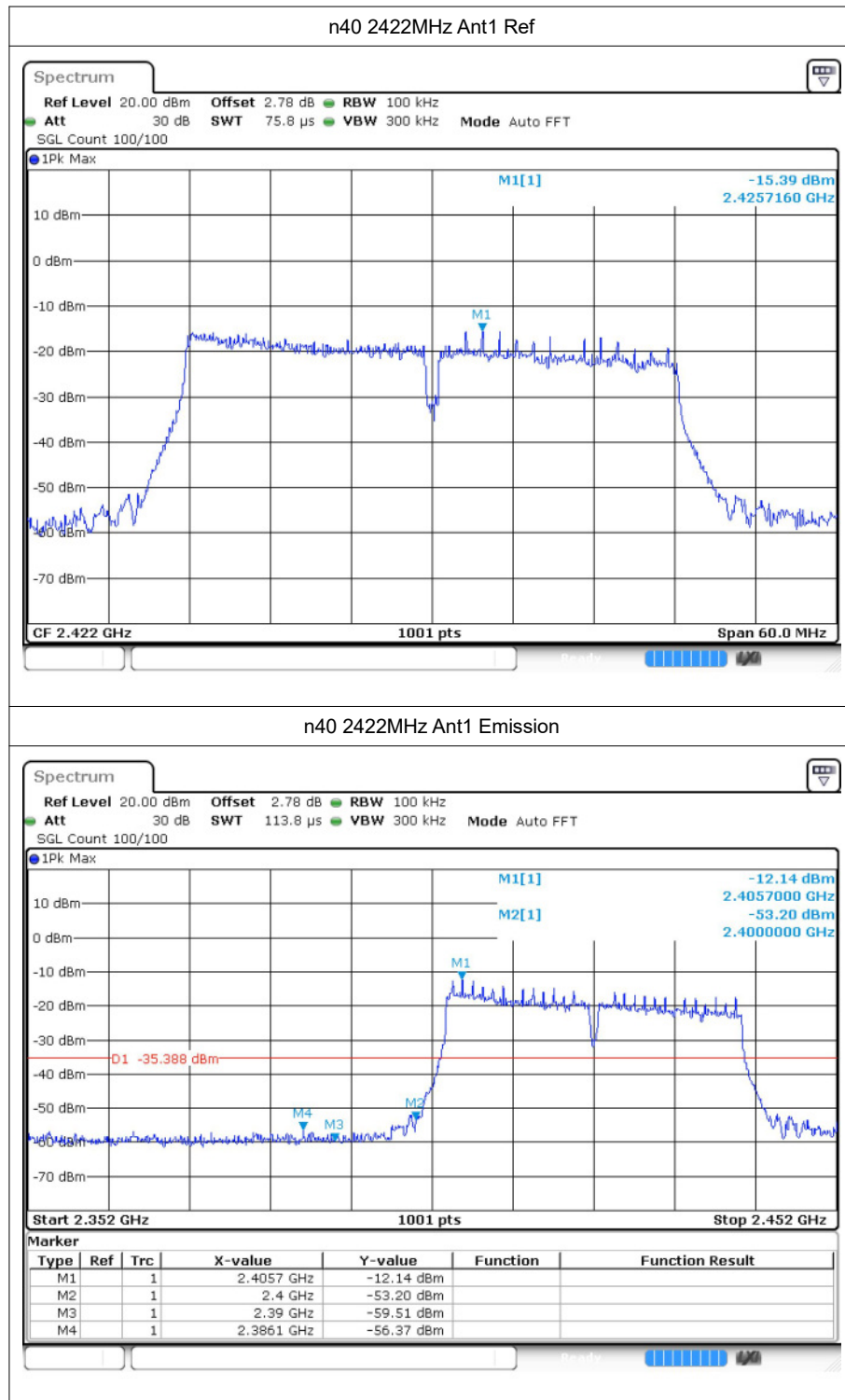


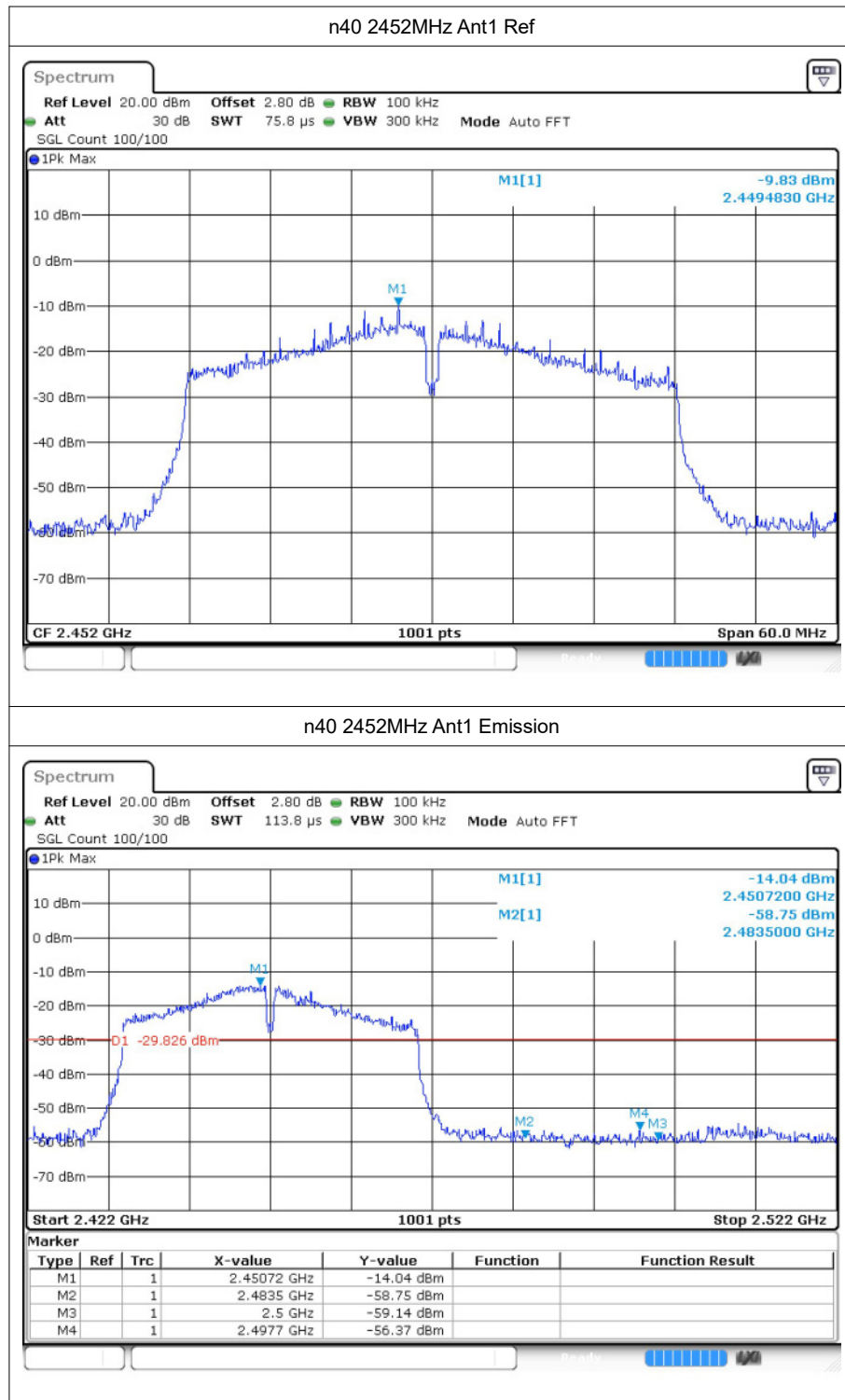












6 Conducted RF Spurious Emission

6.1 Test Result

Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-36.4	-20	Pass
b	2437	Ant1	-35.77	-20	Pass
b	2462	Ant1	-35.48	-20	Pass
g	2412	Ant1	-30.08	-20	Pass
g	2437	Ant1	-31.74	-20	Pass
g	2462	Ant1	-31.44	-20	Pass
n20	2412	Ant1	-20.81	-20	Pass
n20	2437	Ant1	-29.54	-20	Pass
n20	2462	Ant1	-32.63	-20	Pass
n40	2422	Ant1	-28.99	-20	Pass
n40	2437	Ant1	-30.62	-20	Pass
n40	2452	Ant1	-31.25	-20	Pass

6.2 Test Graphs

