



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: VIDEO WALKIE-TALKIE

Trade Mark: N/A

Test Model: JK200

Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
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

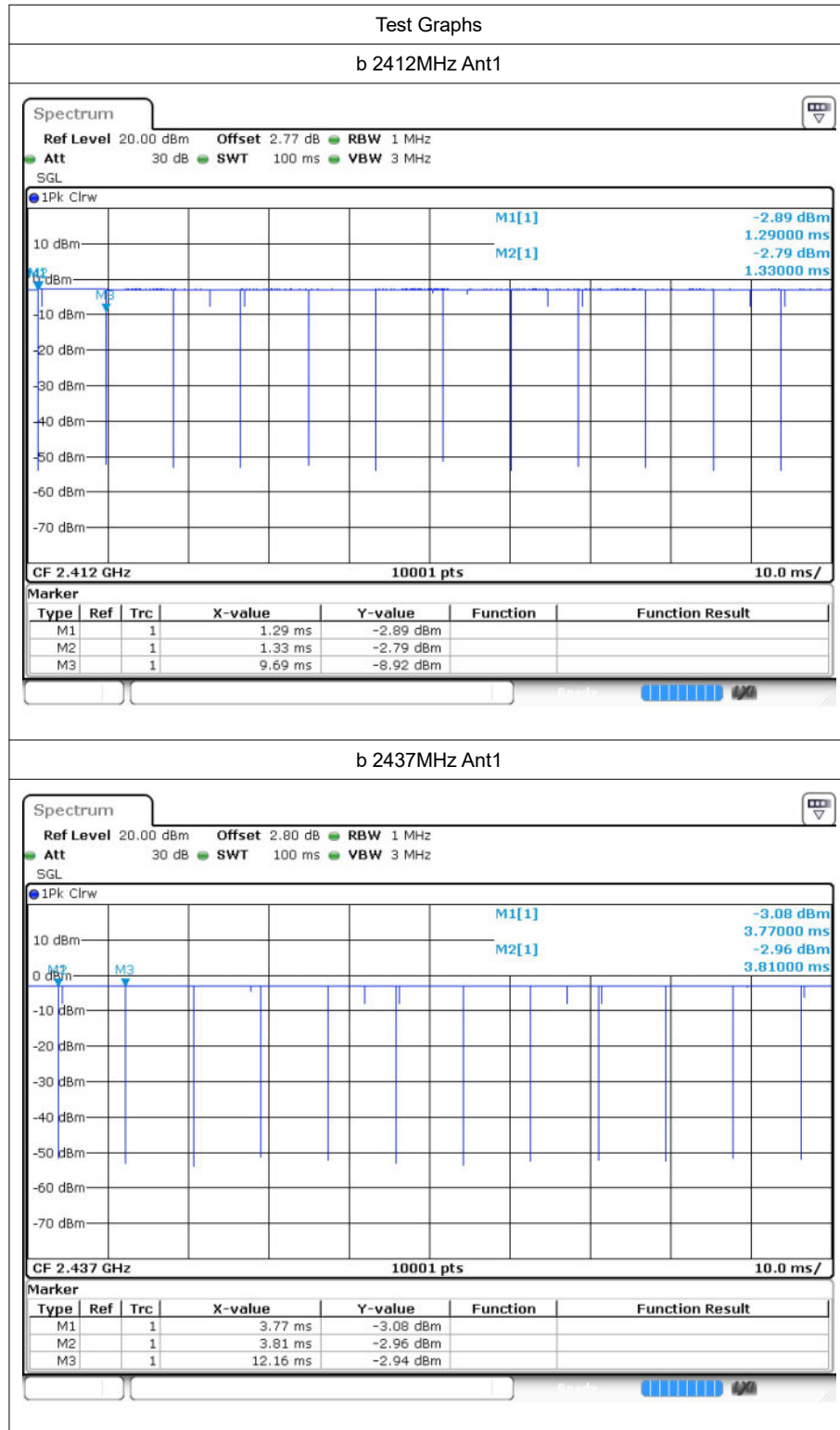


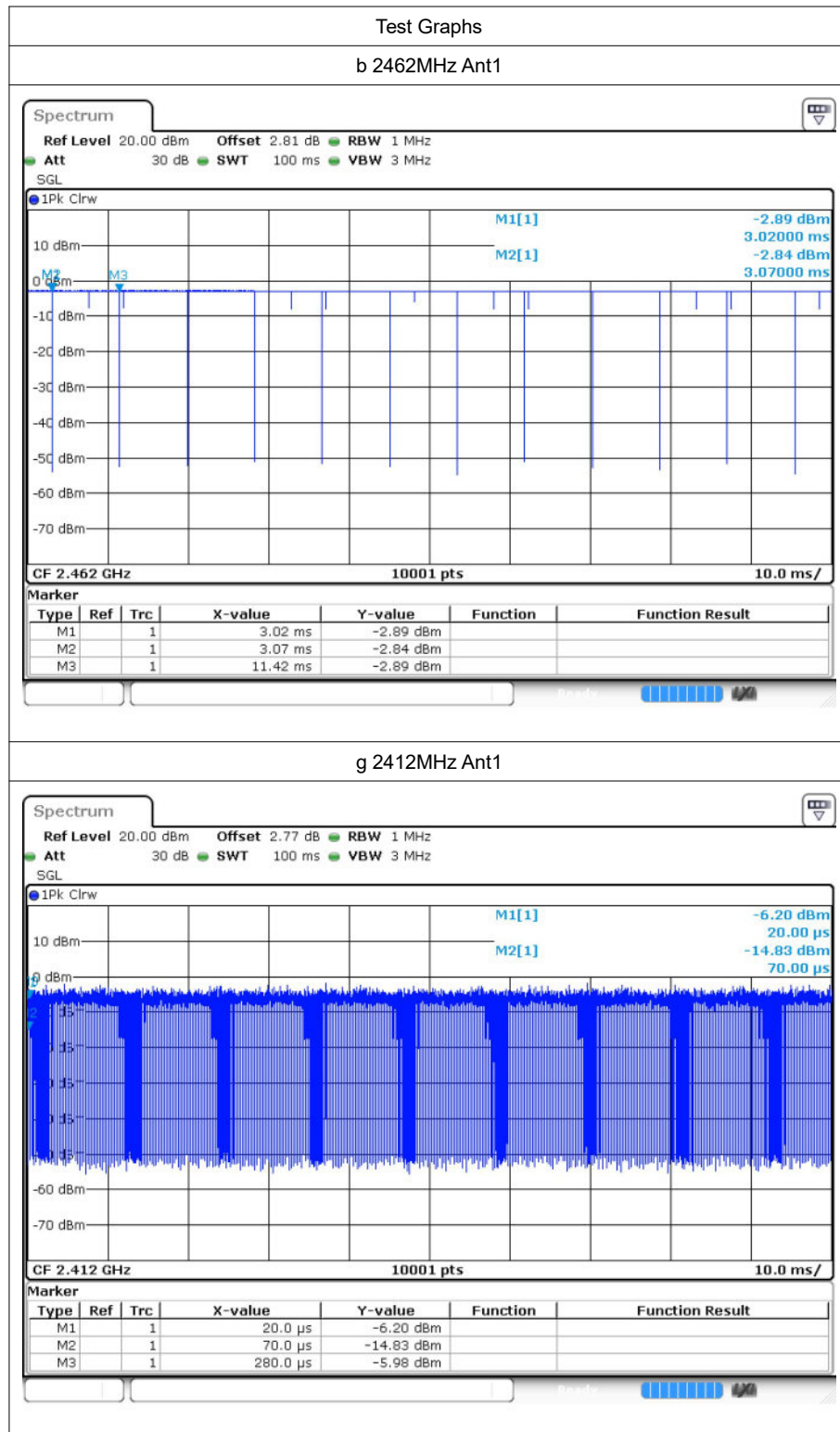
1 Duty Cycle

1.1 Test Result

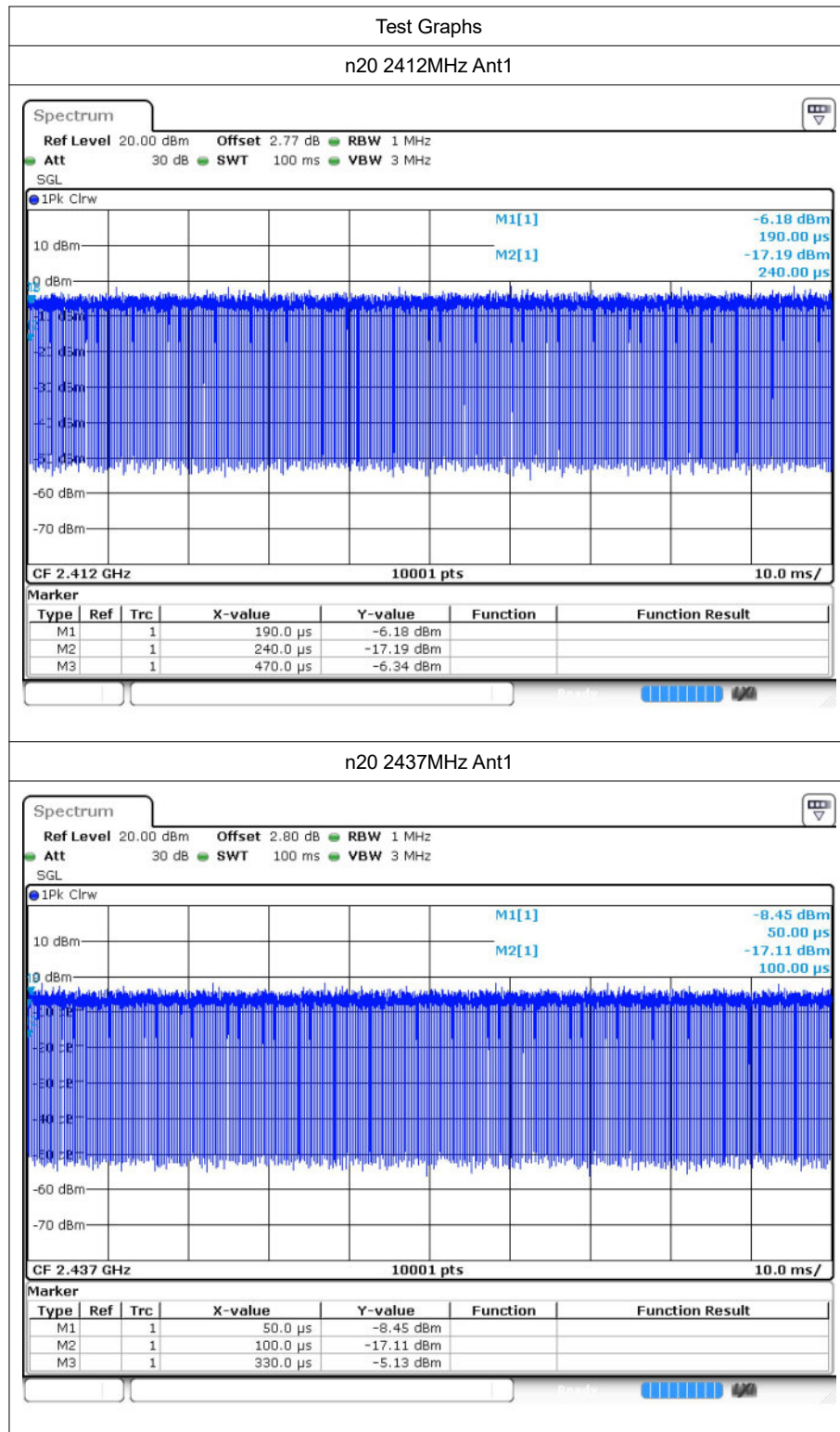
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor	1/T (kHz)
b	2412	Ant1	99.6	0.02	0.12
b	2437	Ant1	99.6	0.02	0.12
b	2462	Ant1	99.6	0.02	0.12
g	2412	Ant1	86.8	0.61	4.76
g	2437	Ant1	86.86	0.61	4.76
g	2462	Ant1	86.84	0.61	4.76
n20	2412	Ant1	87.52	0.58	4.35
n20	2437	Ant1	87.48	0.58	4.35
n20	2462	Ant1	87.48	0.58	4.35

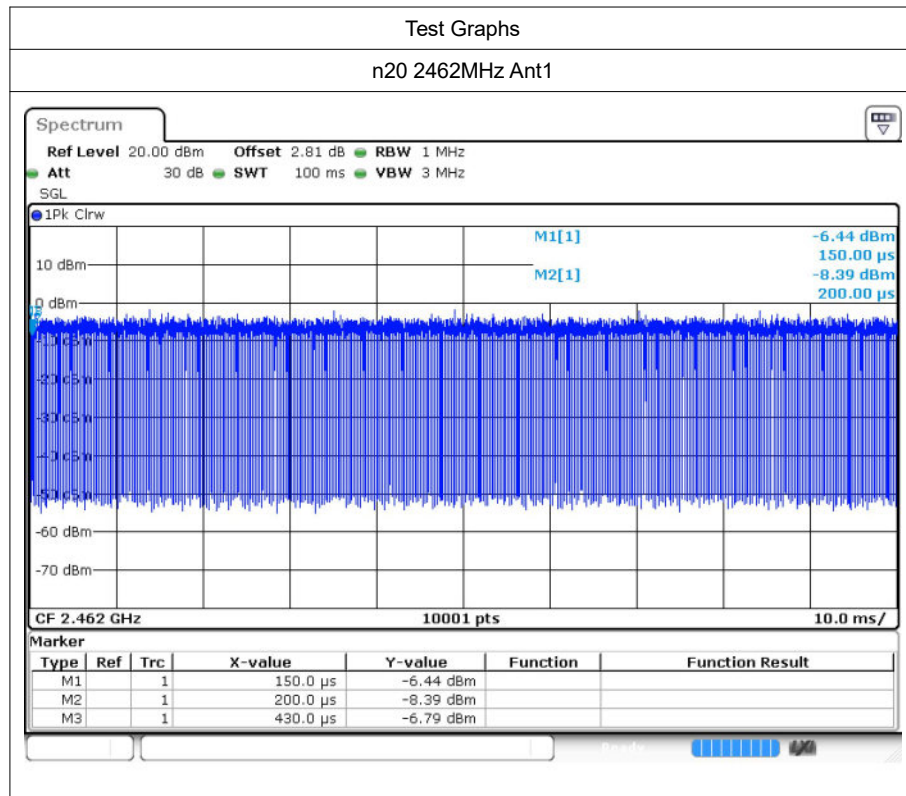
1.2 Test Graphs













2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant1	7.61	30	Pass
b	2437	Ant1	7.54	30	Pass
b	2462	Ant1	7.63	30	Pass
g	2412	Ant1	7.35	30	Pass
g	2437	Ant1	7.3	30	Pass
g	2462	Ant1	7.13	30	Pass
n20	2412	Ant1	7.13	30	Pass
n20	2437	Ant1	7.05	30	Pass
n20	2462	Ant1	7.27	30	Pass

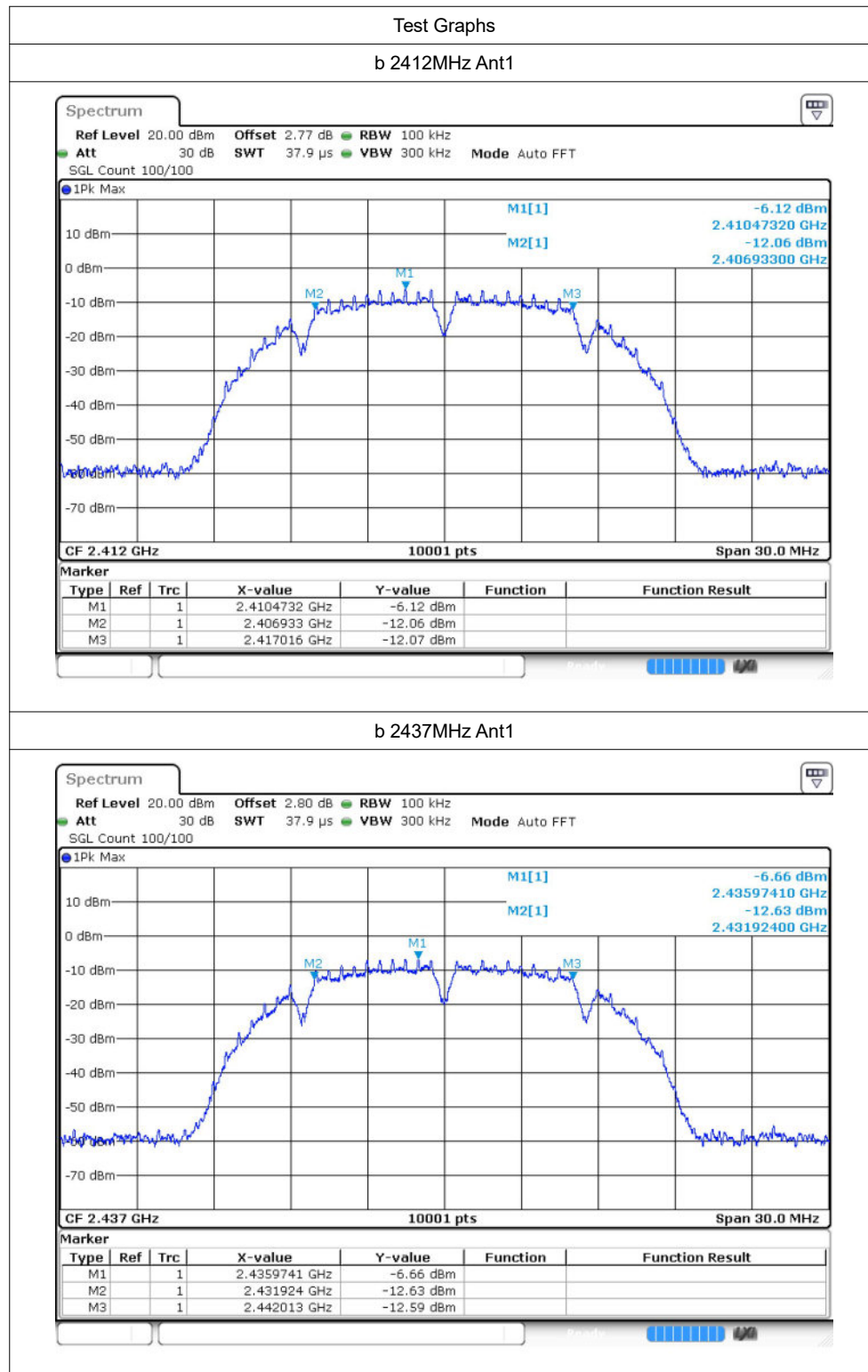


3 -6dB Bandwidth

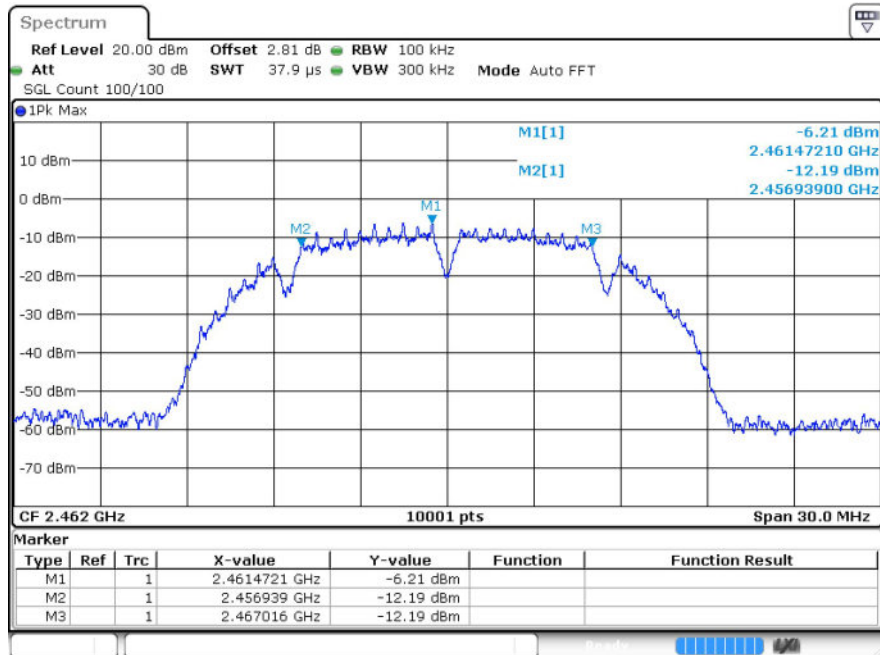
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	10.083	0.5	Pass
b	2437	Ant1	10.089	0.5	Pass
b	2462	Ant1	10.077	0.5	Pass
g	2412	Ant1	15.108	0.5	Pass
g	2437	Ant1	15.117	0.5	Pass
g	2462	Ant1	15.108	0.5	Pass
n20	2412	Ant1	15.108	0.5	Pass
n20	2437	Ant1	15.108	0.5	Pass
n20	2462	Ant1	15.024	0.5	Pass

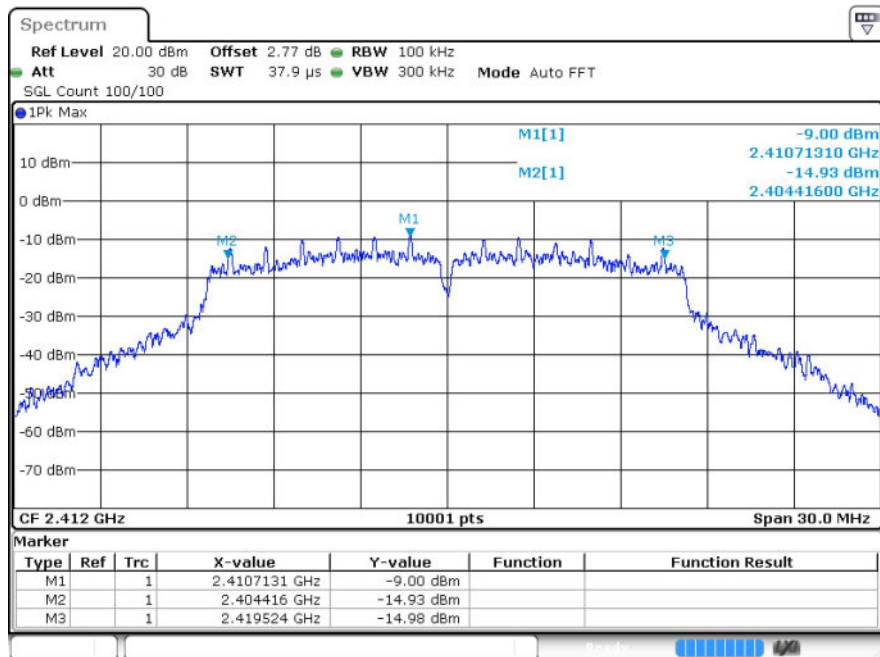
3.2 Test Graphs



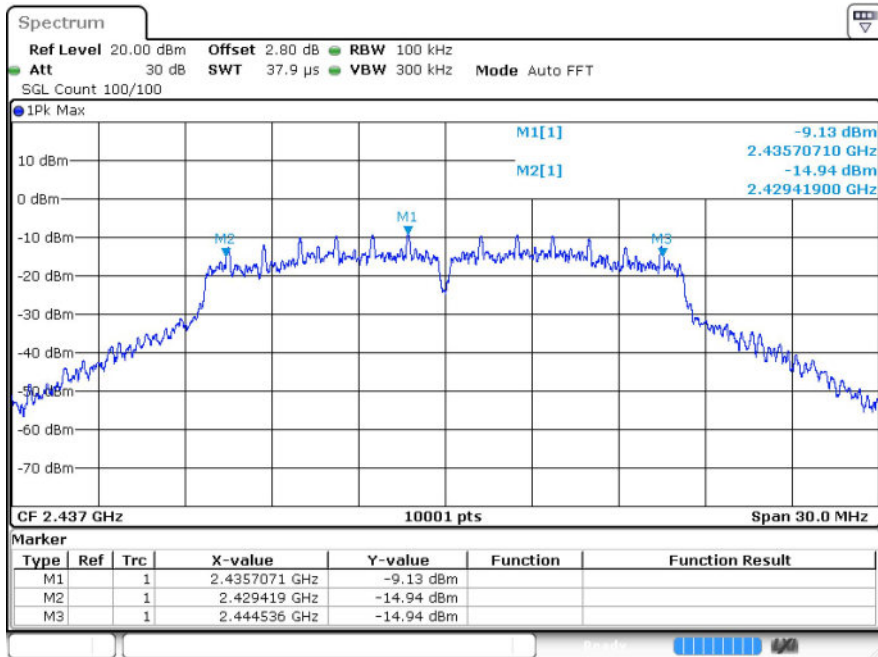
b 2462MHz Ant1



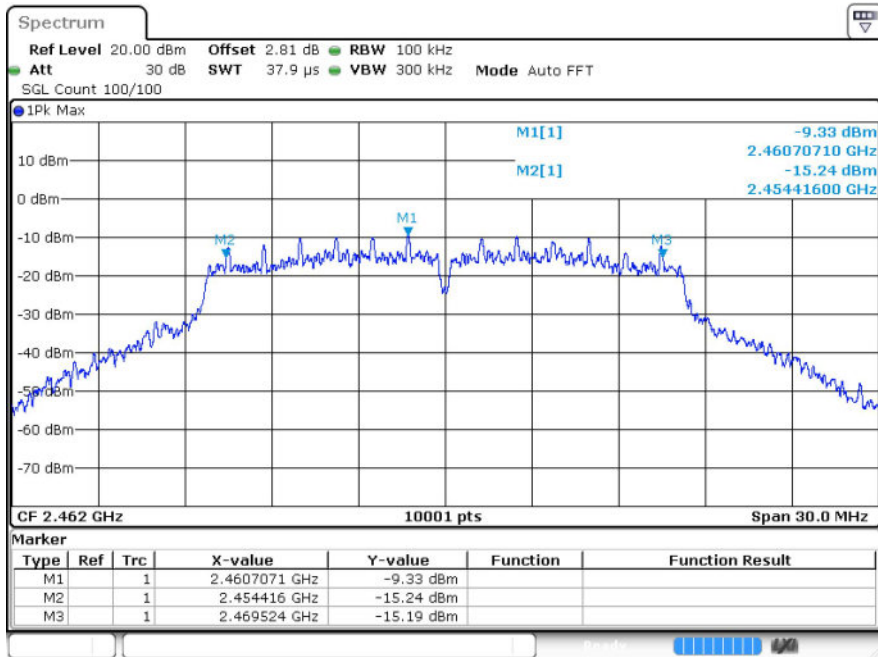
g 2412MHz Ant1



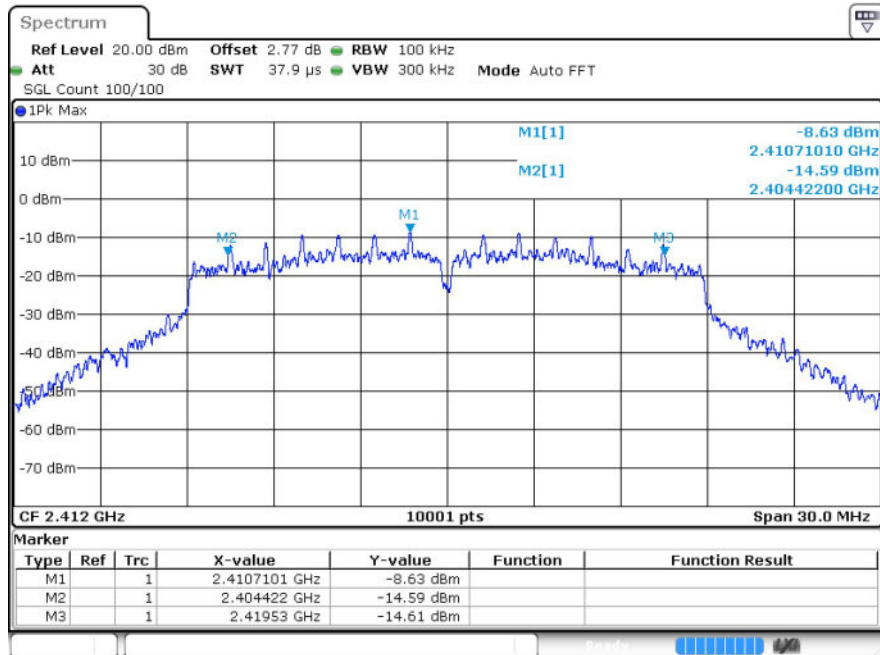
g 2437MHz Ant1



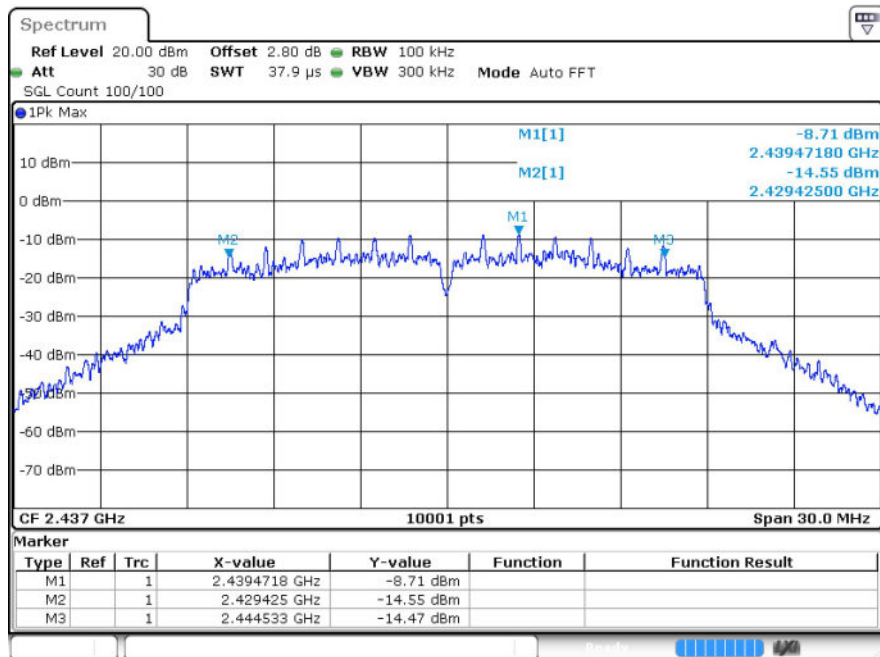
g 2462MHz Ant1

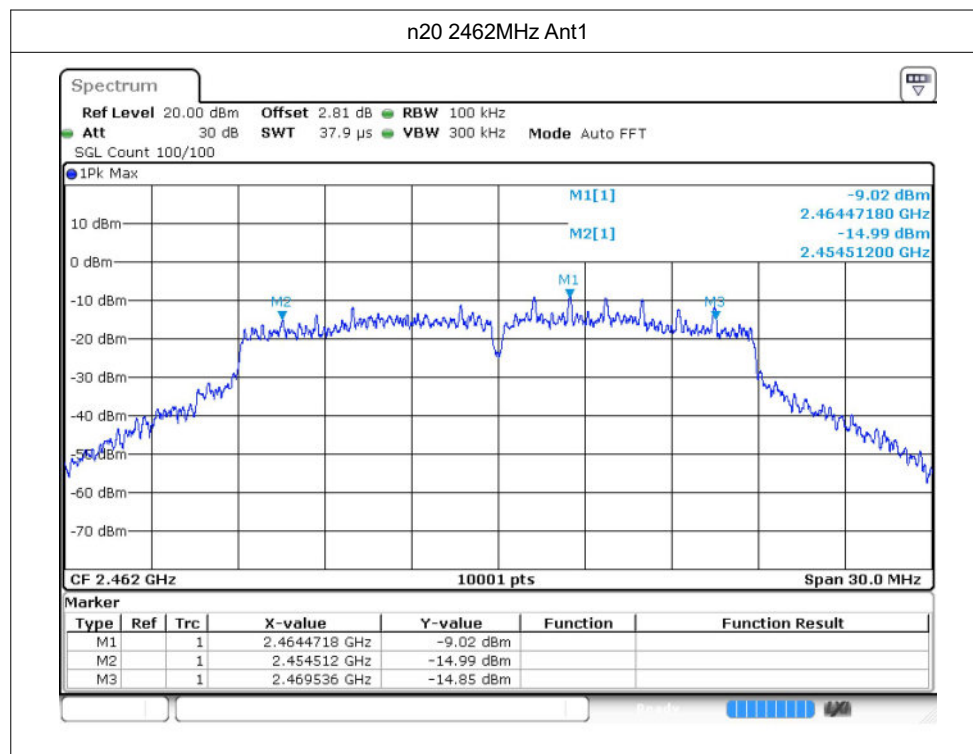


n20 2412MHz Ant1



n20 2437MHz Ant1



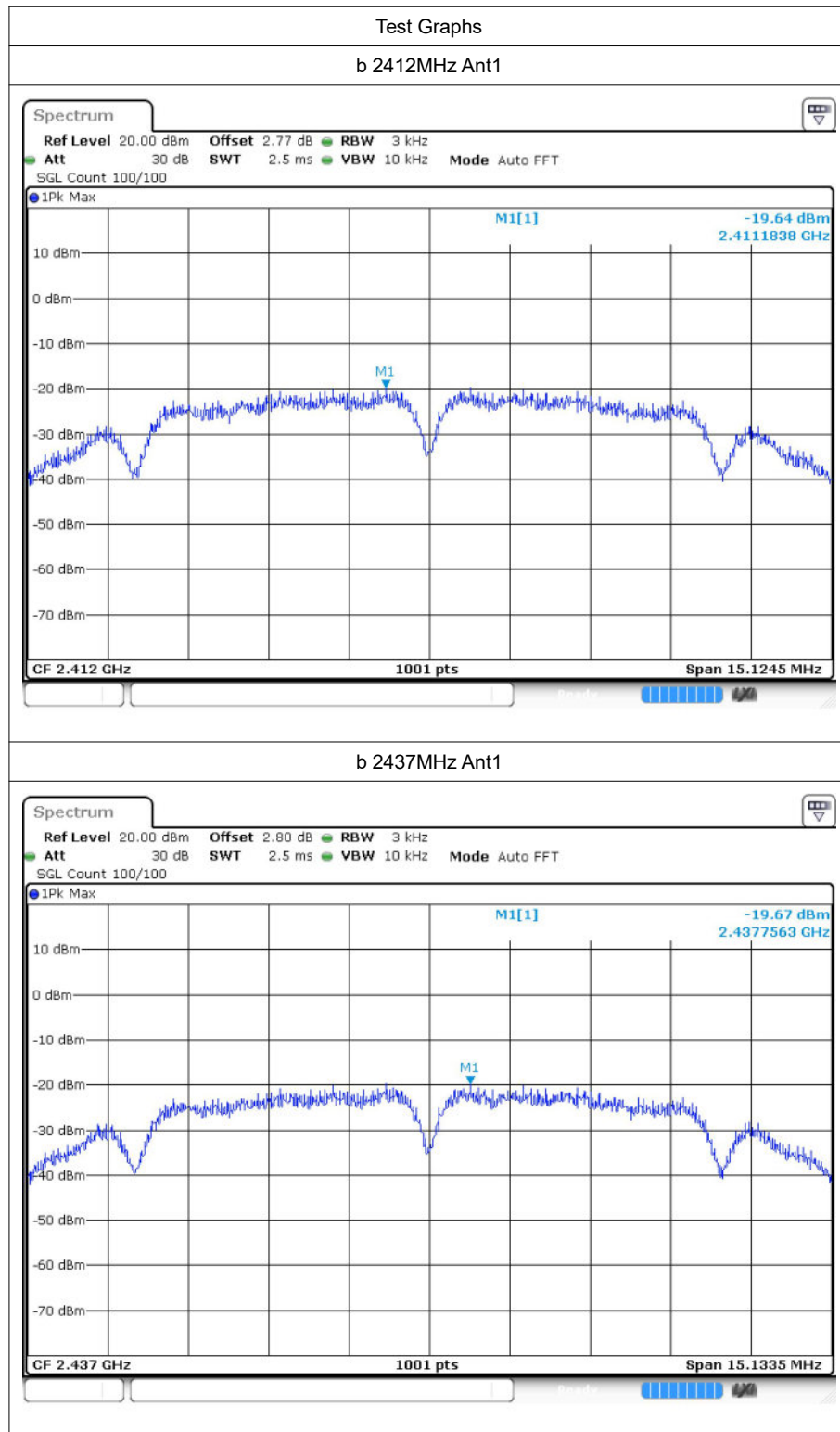


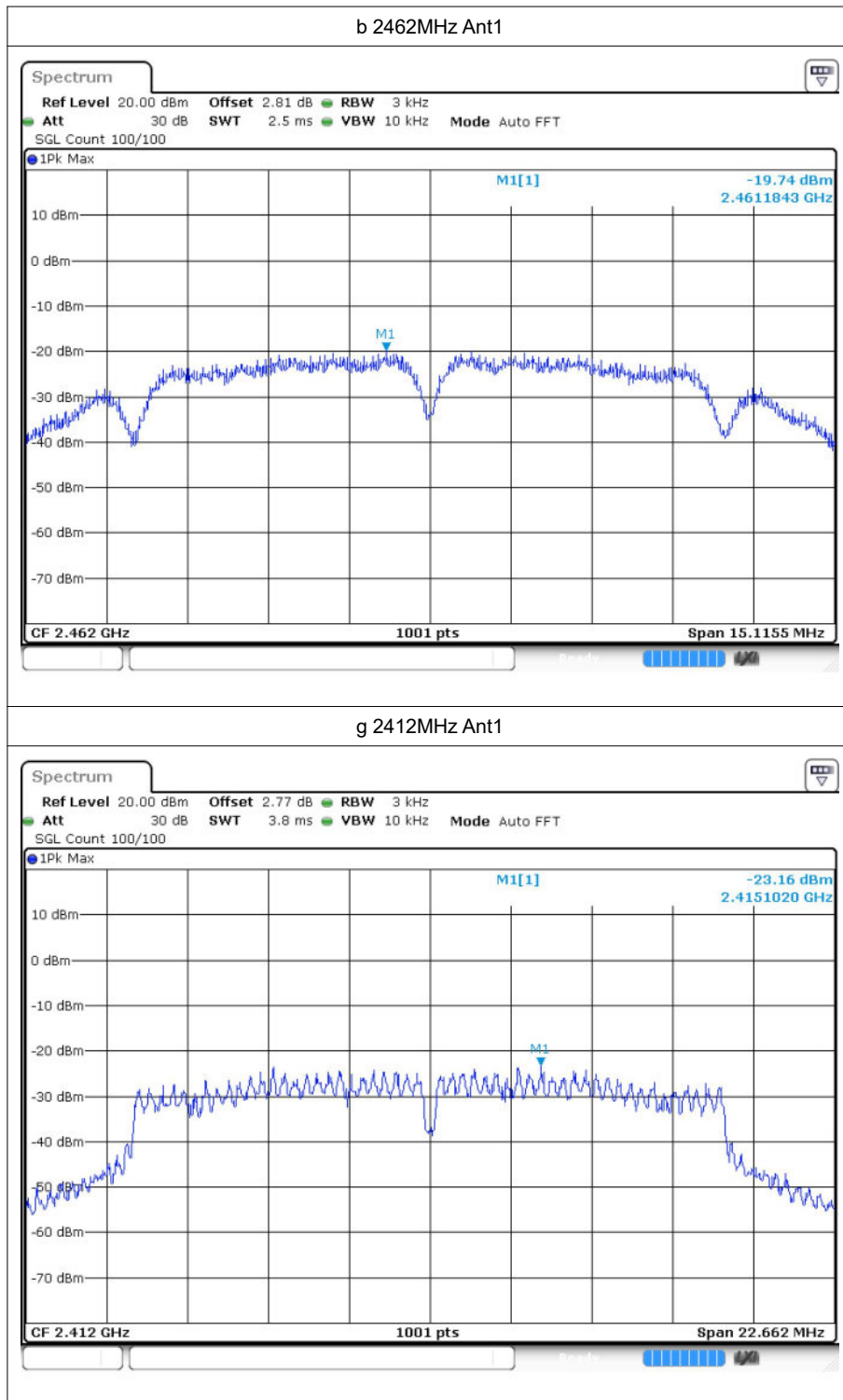
4 Maximum Power Spectral Density Level

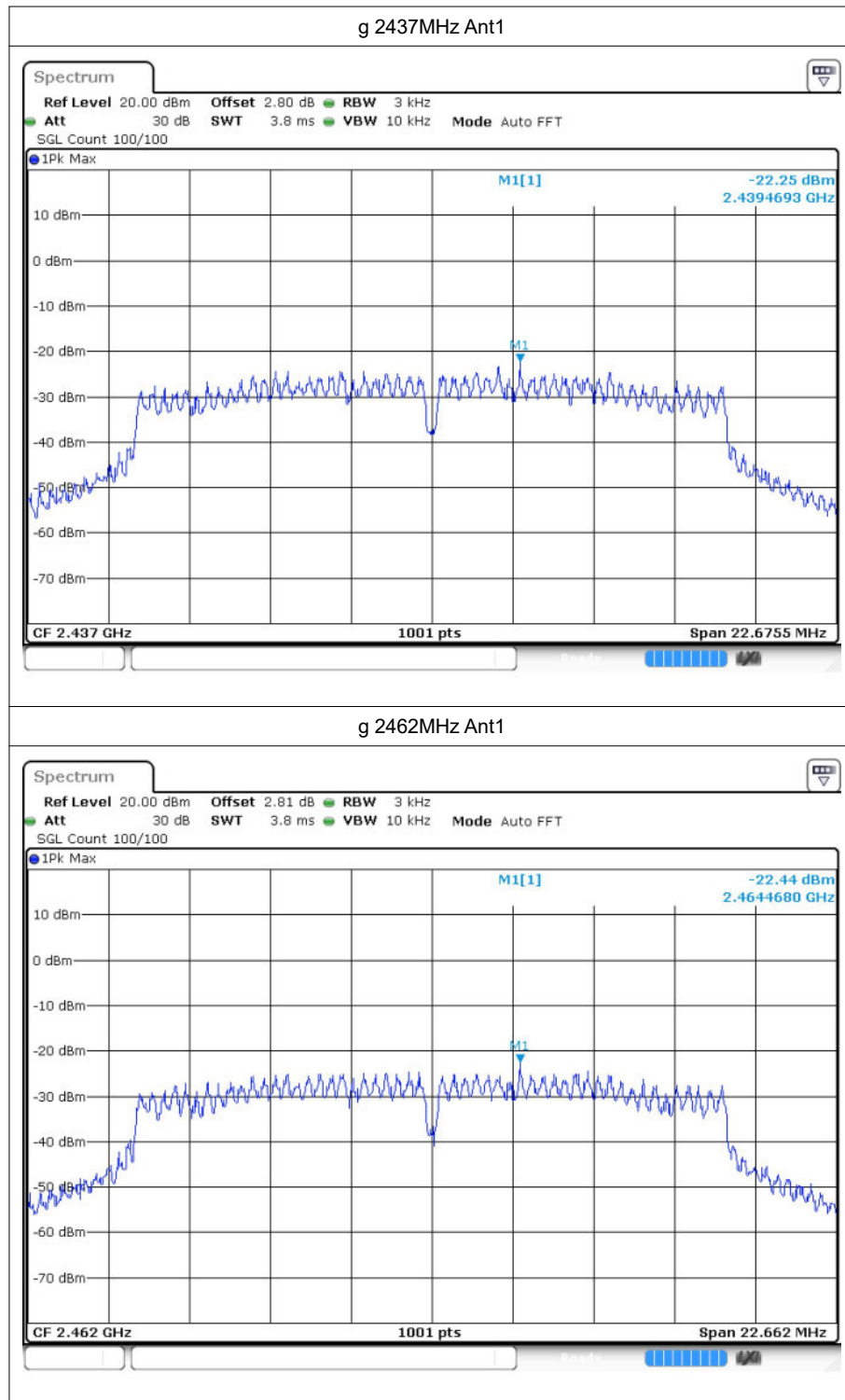
4.1 Test Result

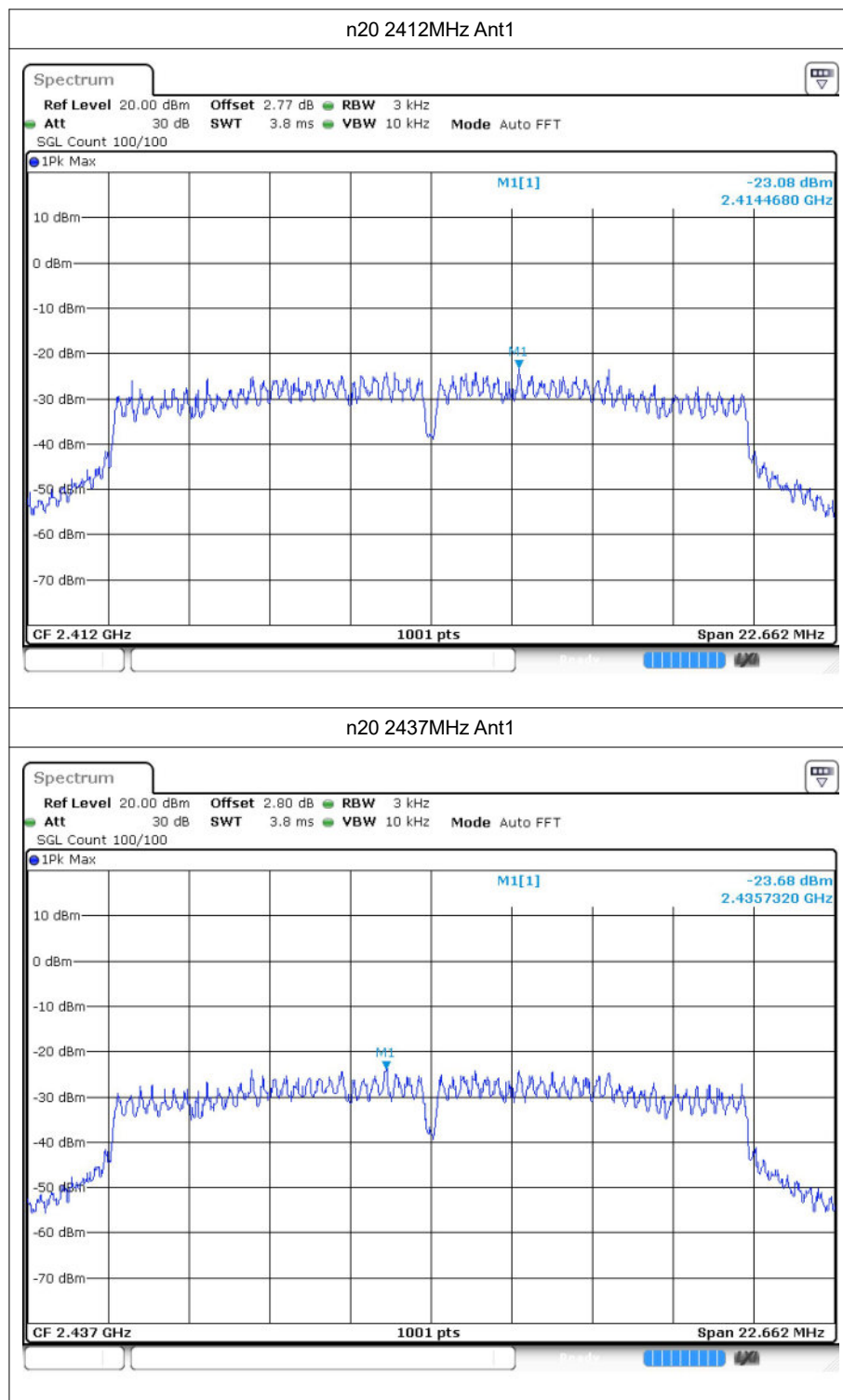
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
b	2412	Ant1	-19.64	≤8	Pass
b	2437	Ant1	-19.67	≤8	Pass
b	2462	Ant1	-19.74	≤8	Pass
g	2412	Ant1	-23.16	≤8	Pass
g	2437	Ant1	-22.25	≤8	Pass
g	2462	Ant1	-22.44	≤8	Pass
n20	2412	Ant1	-23.08	≤8	Pass
n20	2437	Ant1	-23.68	≤8	Pass
n20	2462	Ant1	-22.87	≤8	Pass

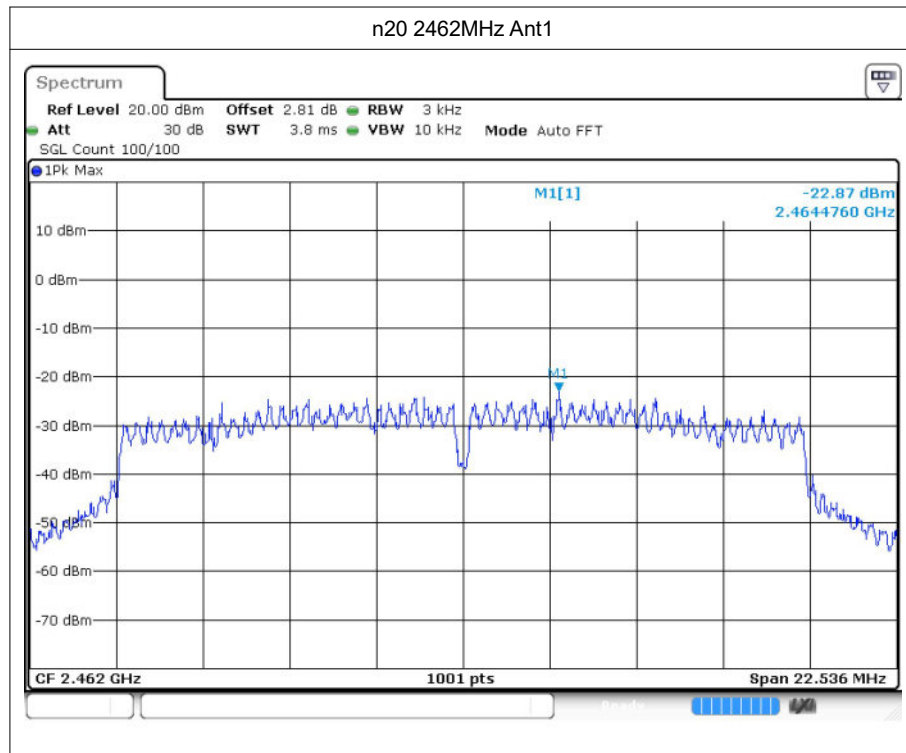
4.2 Test Graphs











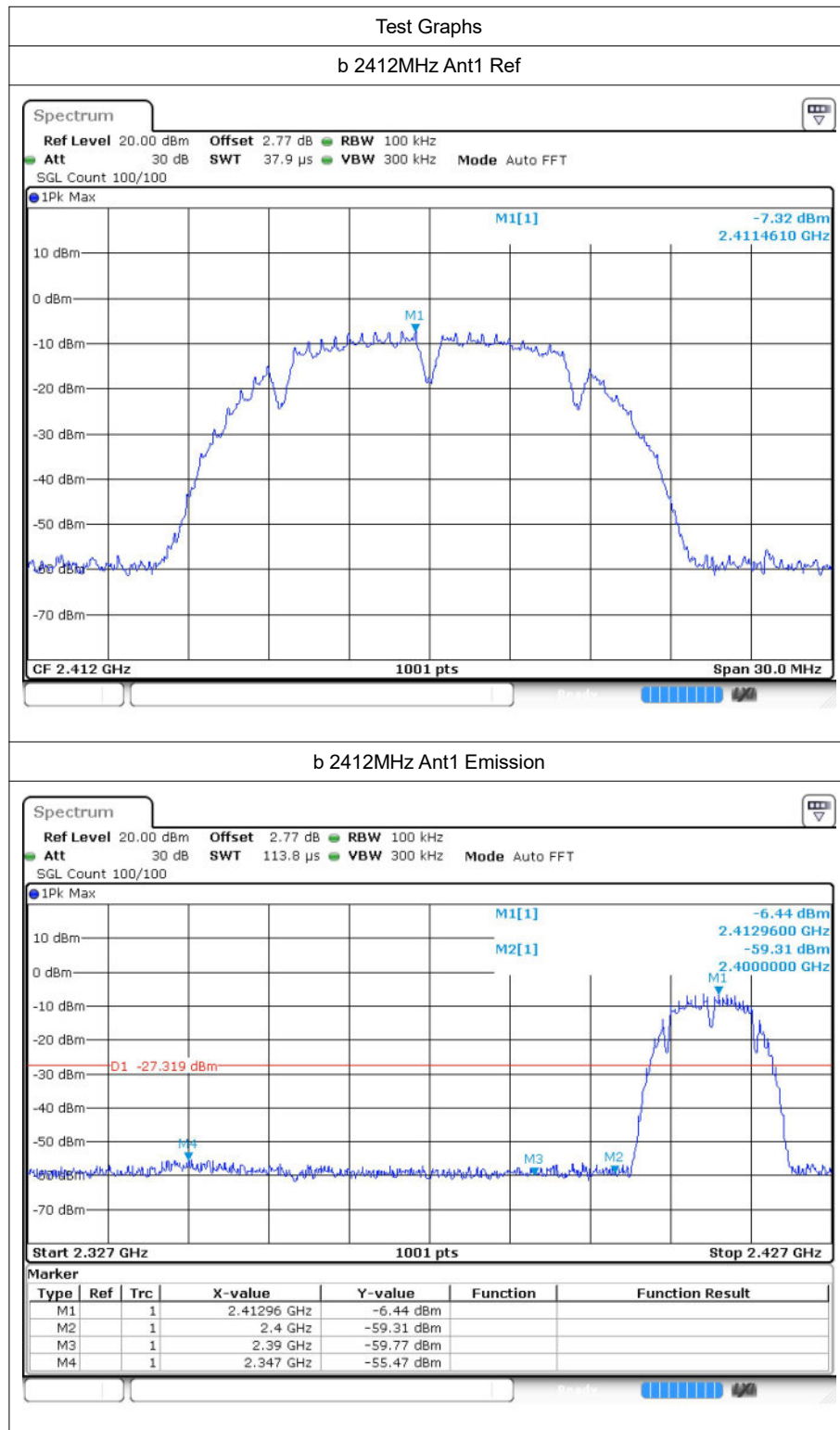


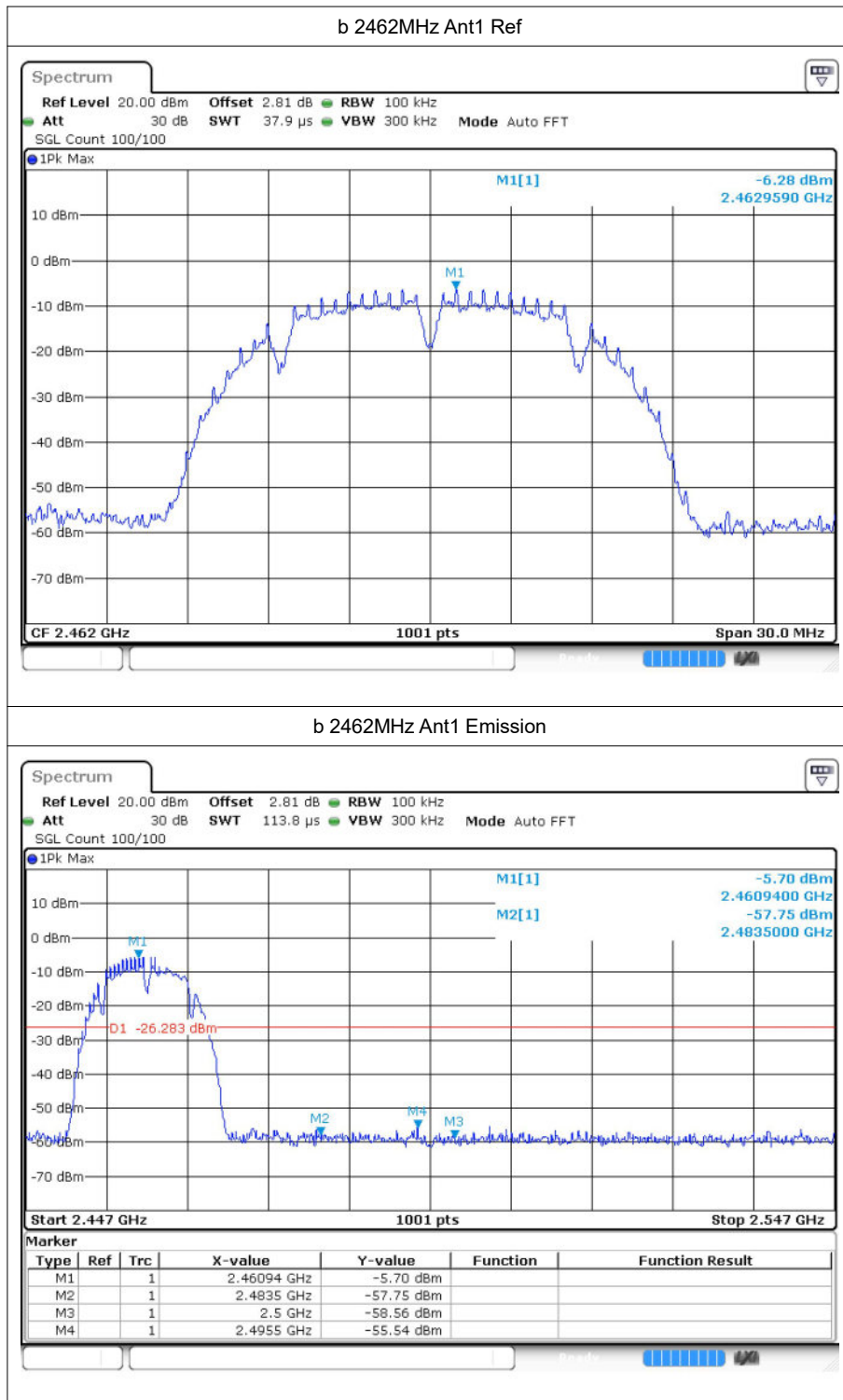
5 Band Edge

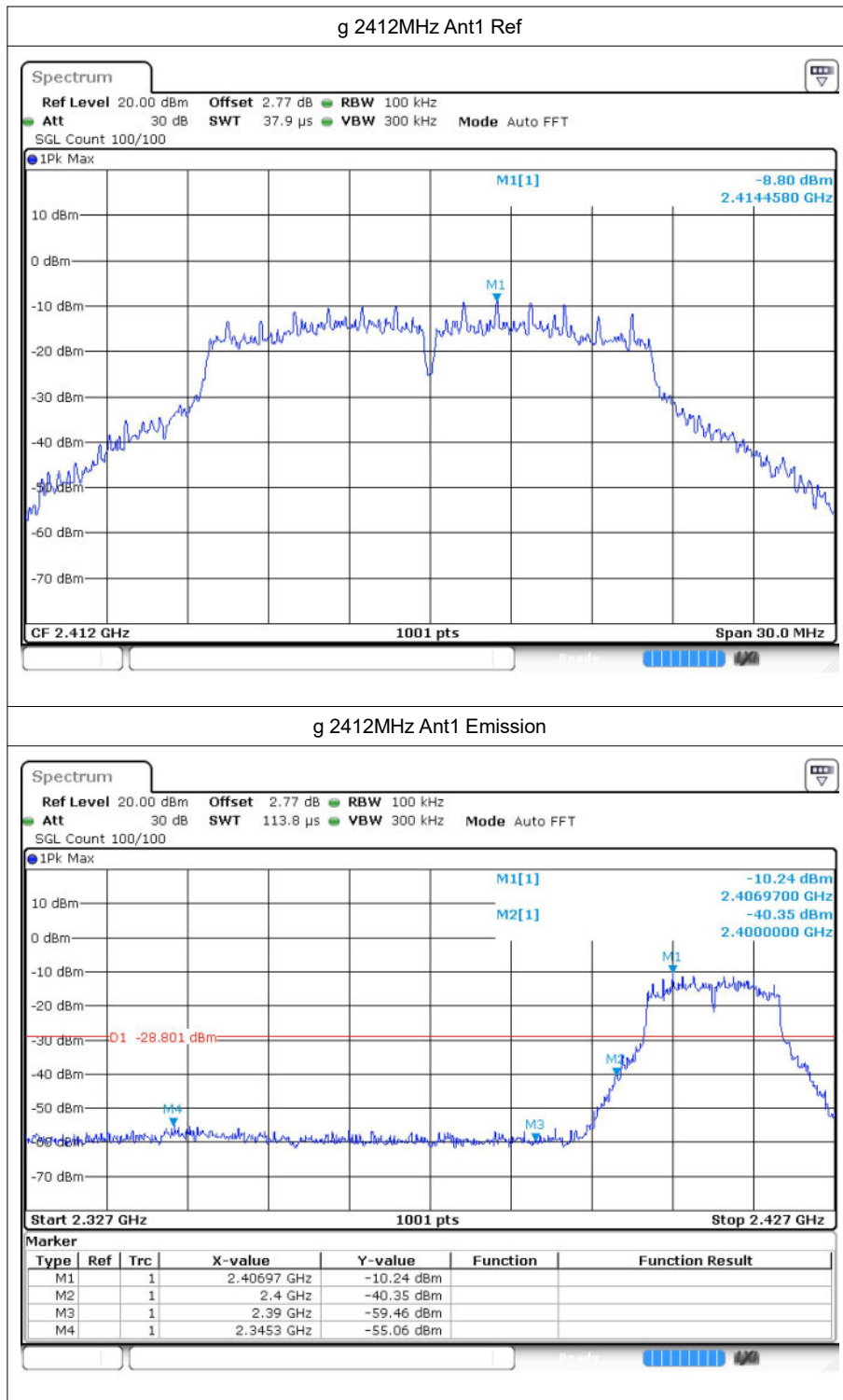
5.1 Test Result

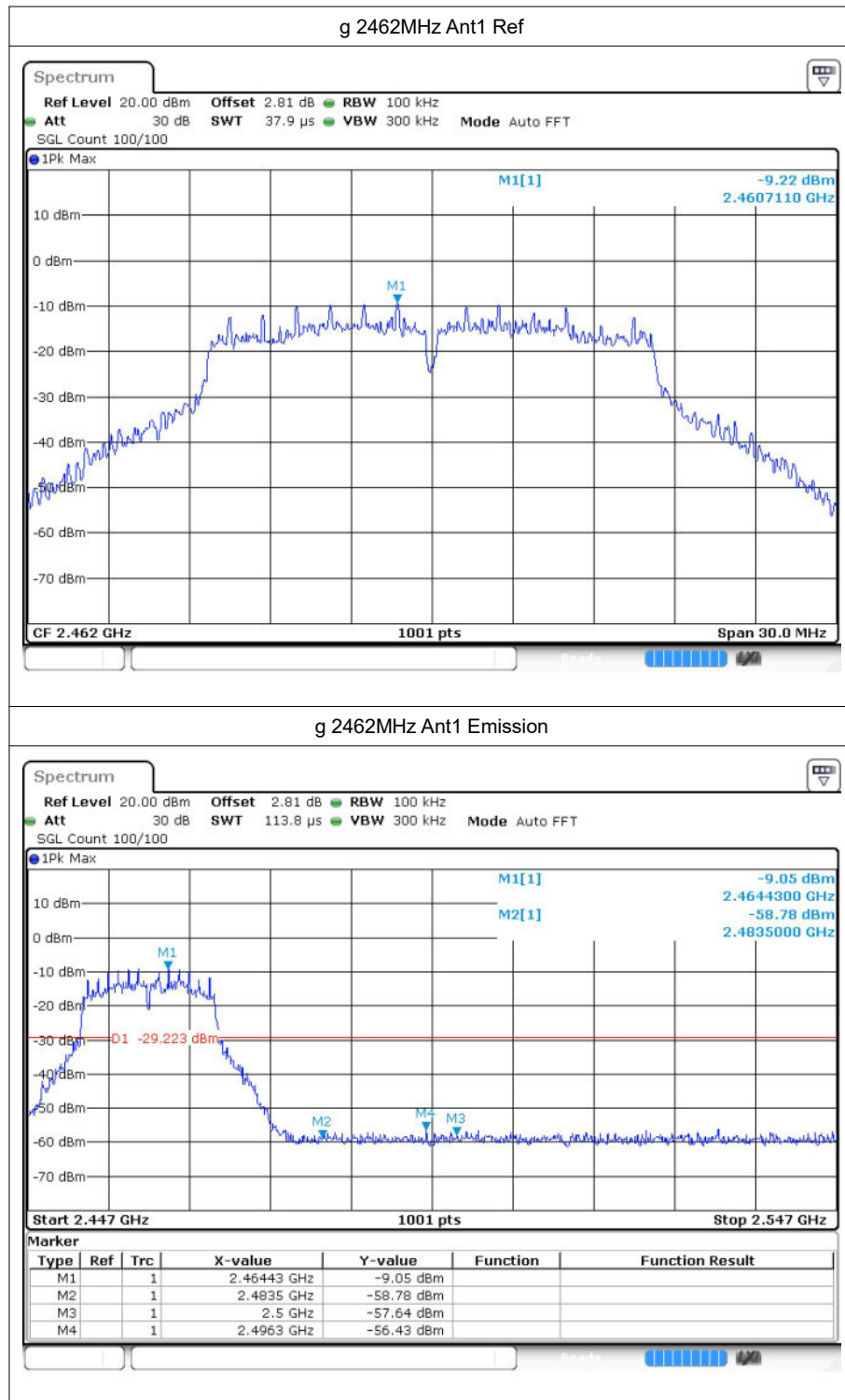
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-48.15	-20	Pass
b	2462	Ant1	-49.26	-20	Pass
g	2412	Ant1	-46.26	-20	Pass
g	2462	Ant1	-47.2	-20	Pass
n20	2412	Ant1	-45.22	-20	Pass
n20	2462	Ant1	-46.42	-20	Pass

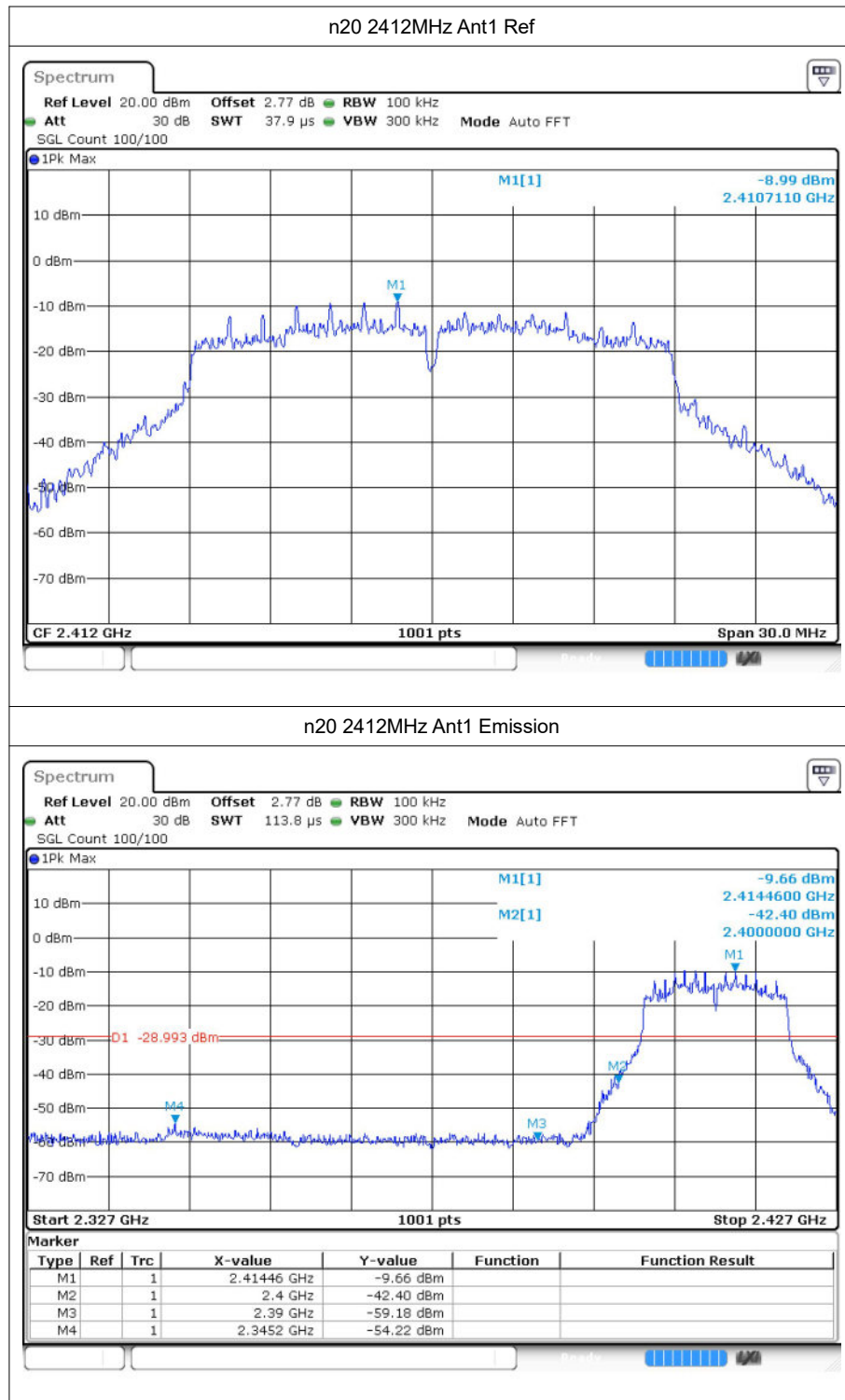
5.2 Test Graphs

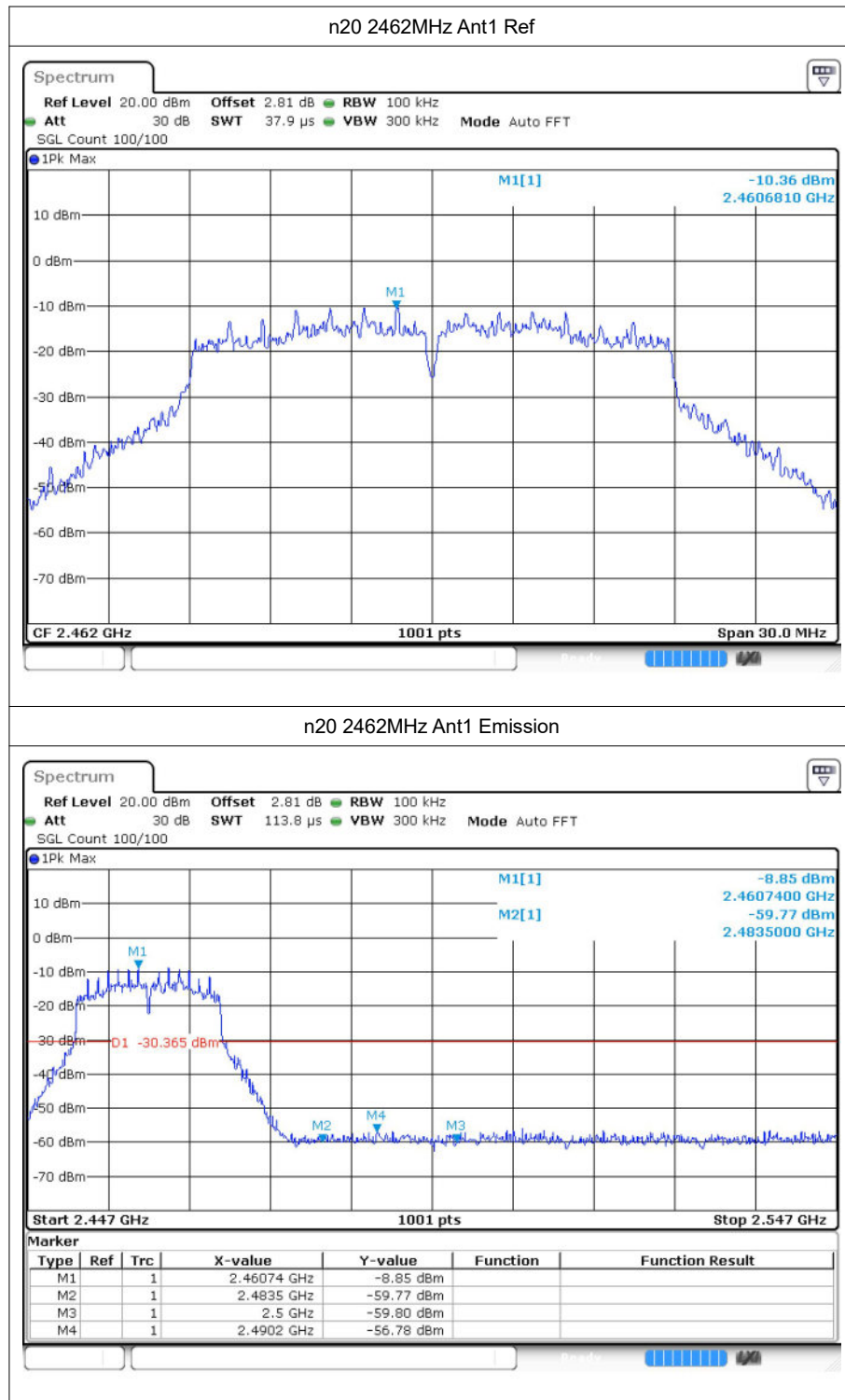












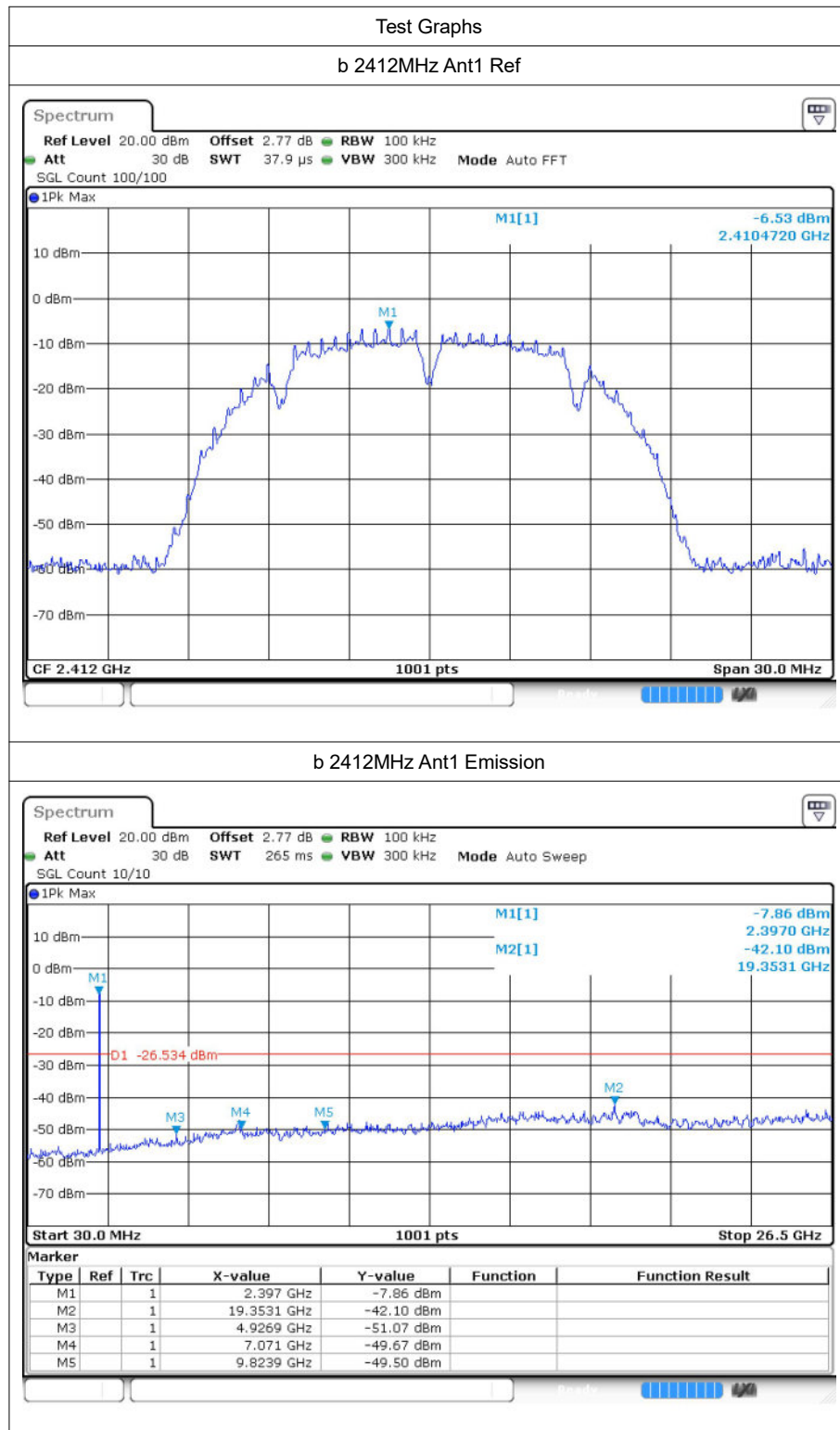


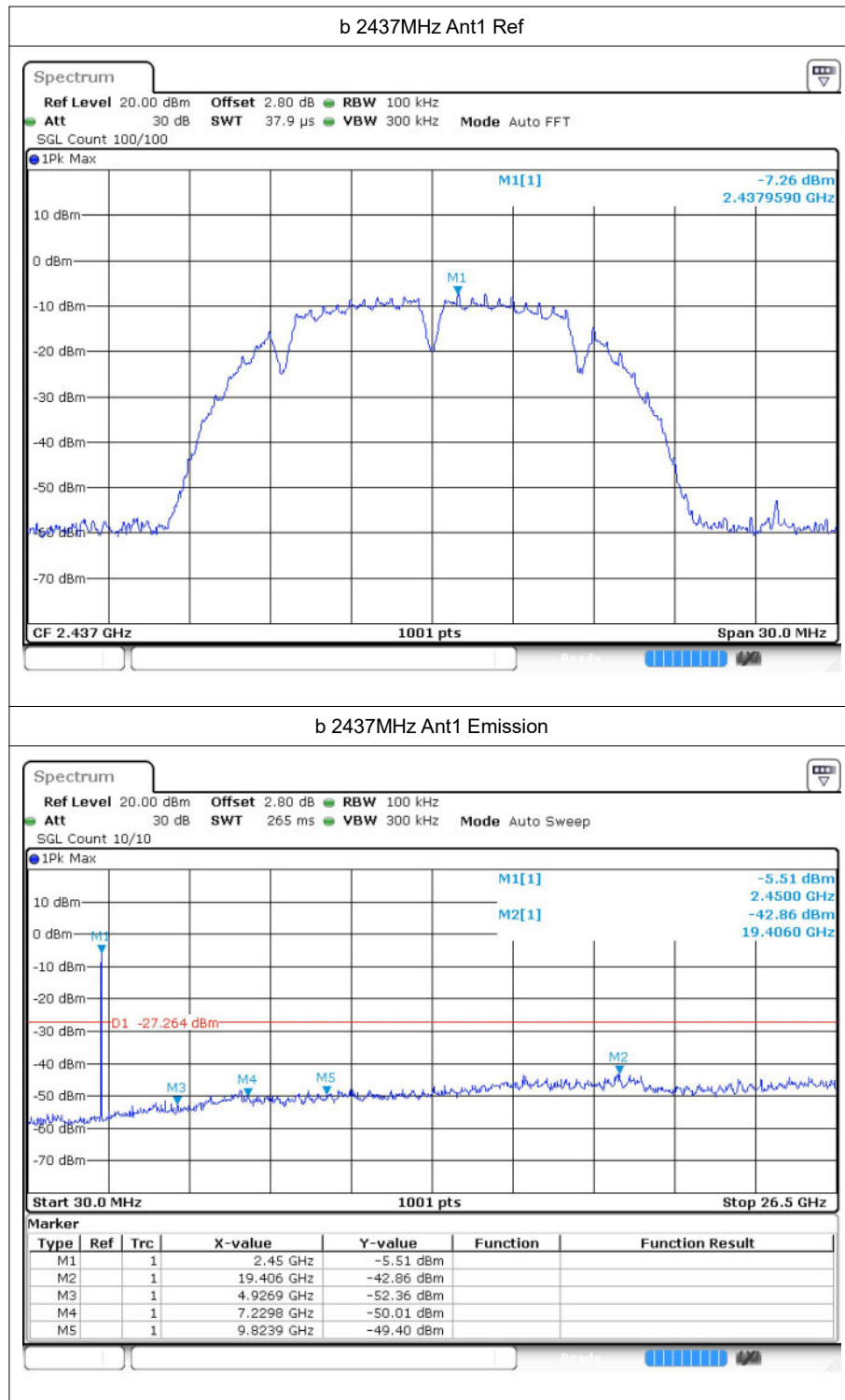
6 Conducted RF Spurious Emission

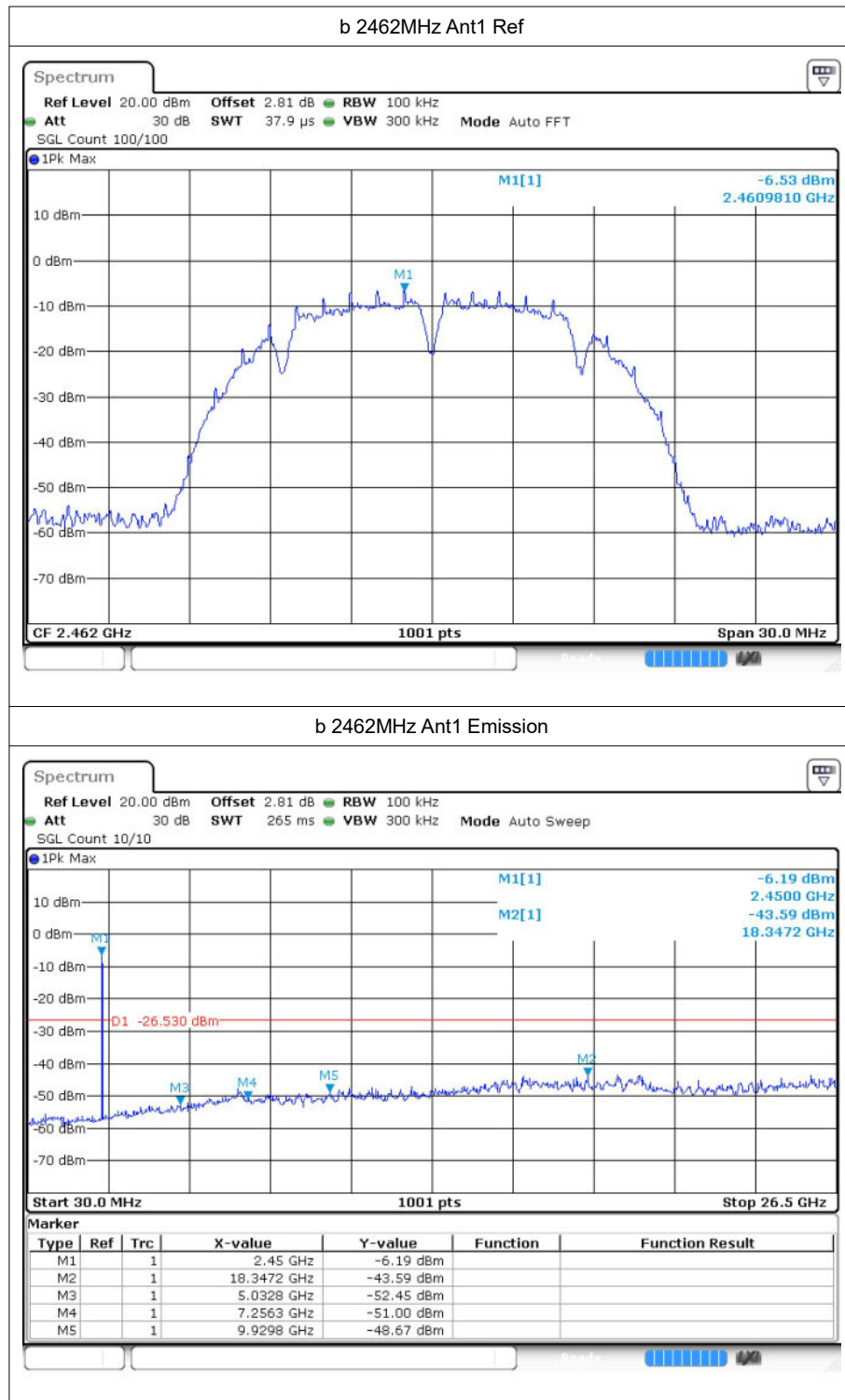
6.1 Test Result

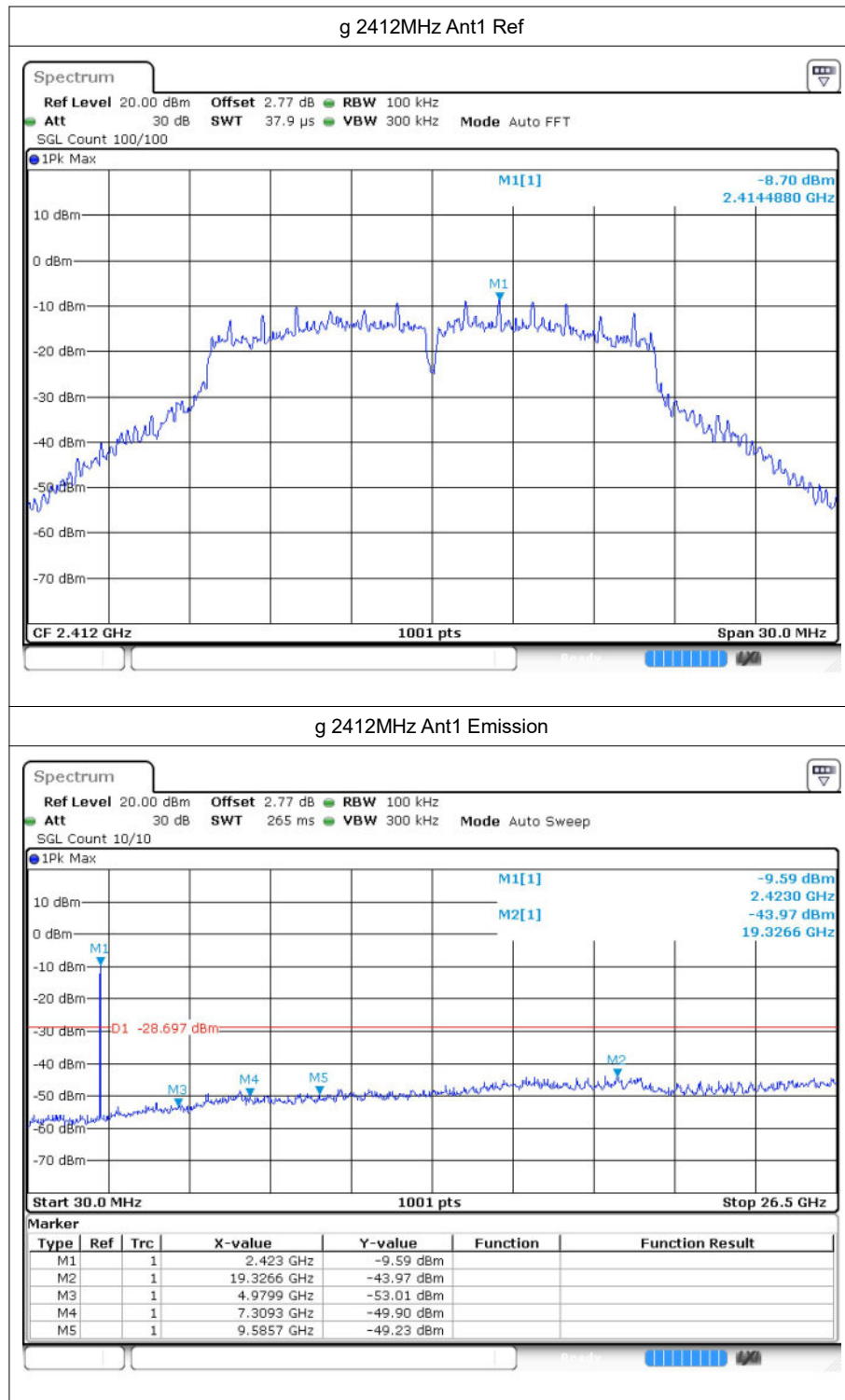
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-35.57	-20	Pass
b	2437	Ant1	-35.59	-20	Pass
b	2462	Ant1	-37.05	-20	Pass
g	2412	Ant1	-35.27	-20	Pass
g	2437	Ant1	-34.86	-20	Pass
g	2462	Ant1	-34.19	-20	Pass
n20	2412	Ant1	-34.44	-20	Pass
n20	2437	Ant1	-33.84	-20	Pass
n20	2462	Ant1	-34.01	-20	Pass

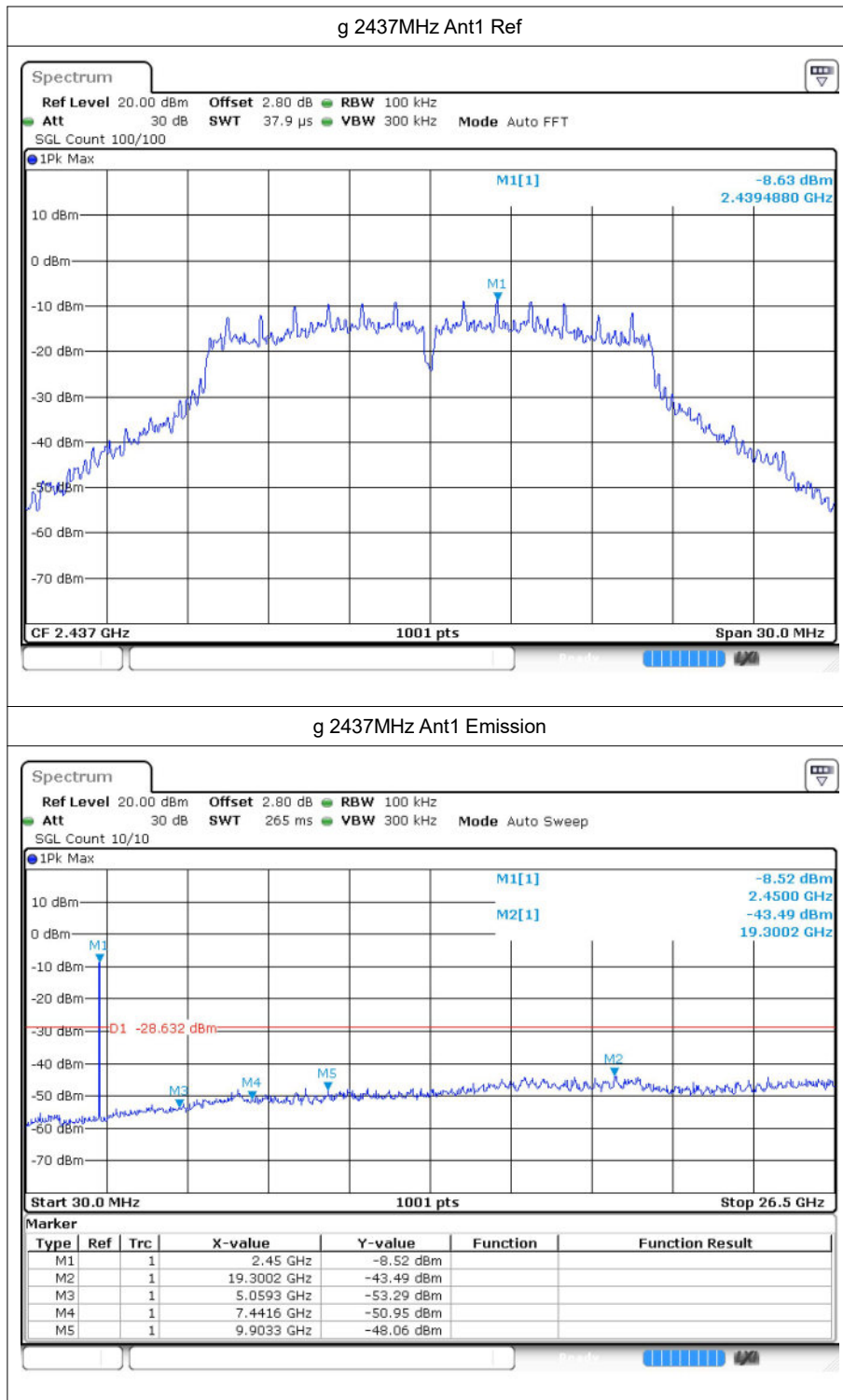
6.2 Test Graphs

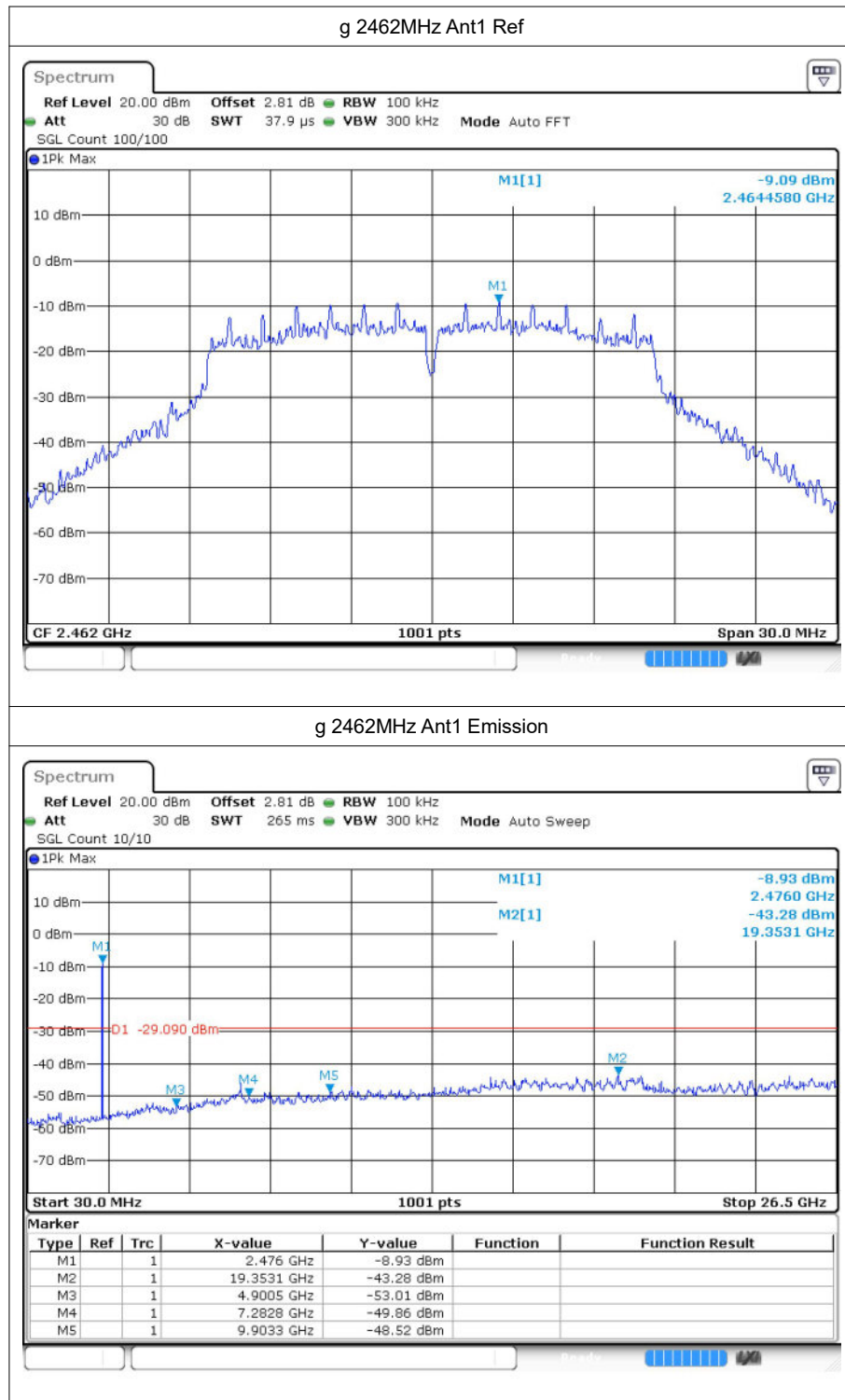


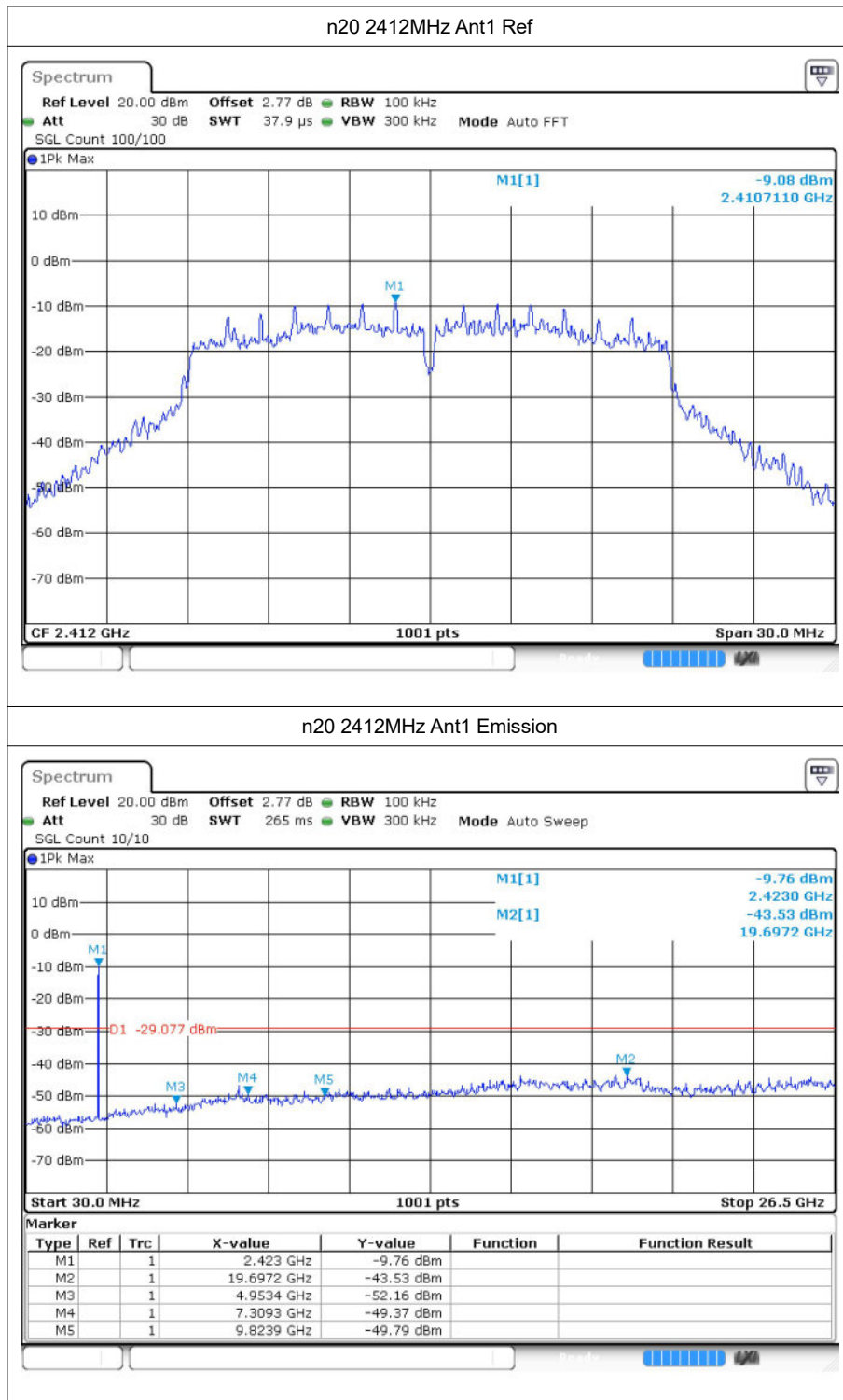


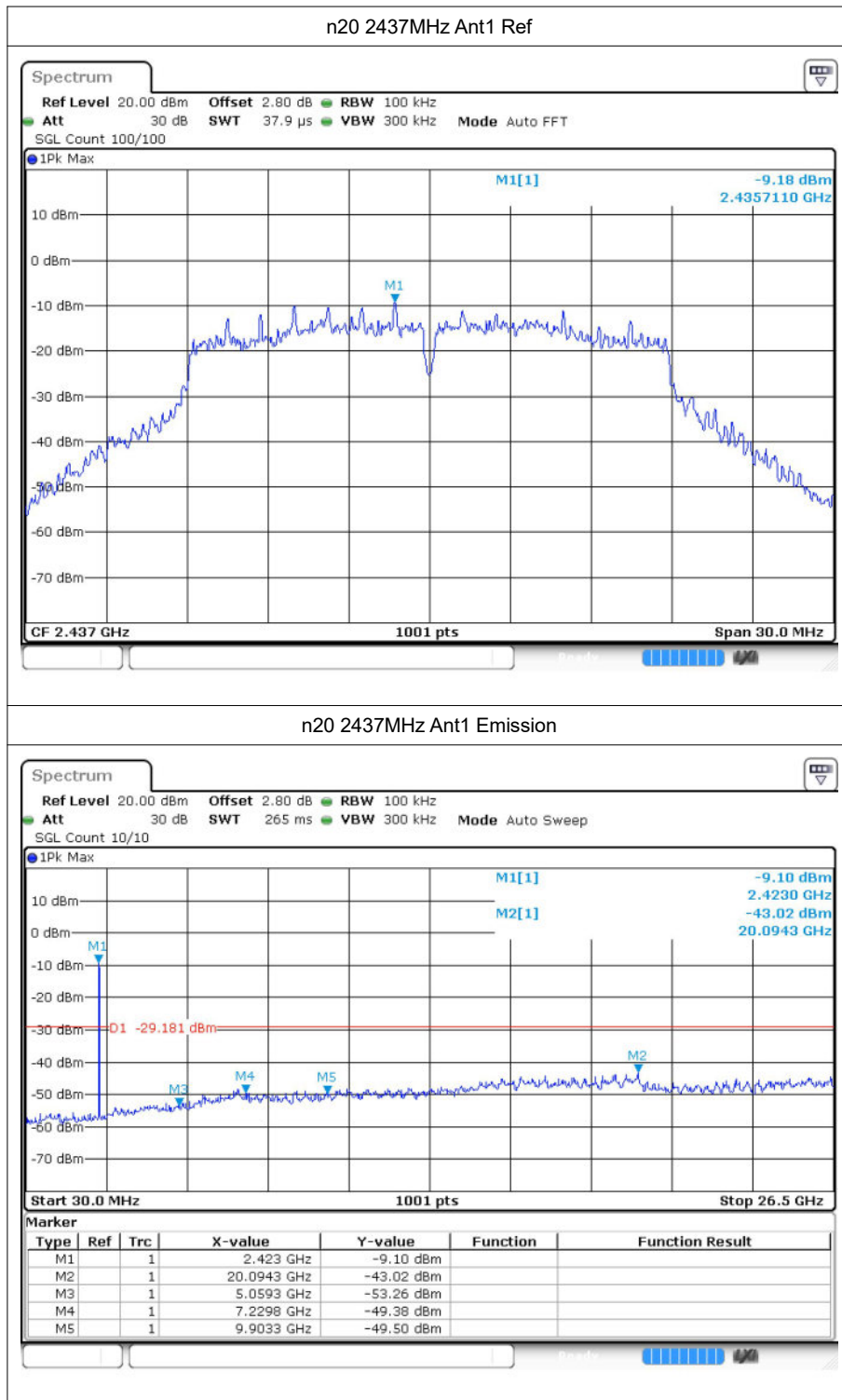


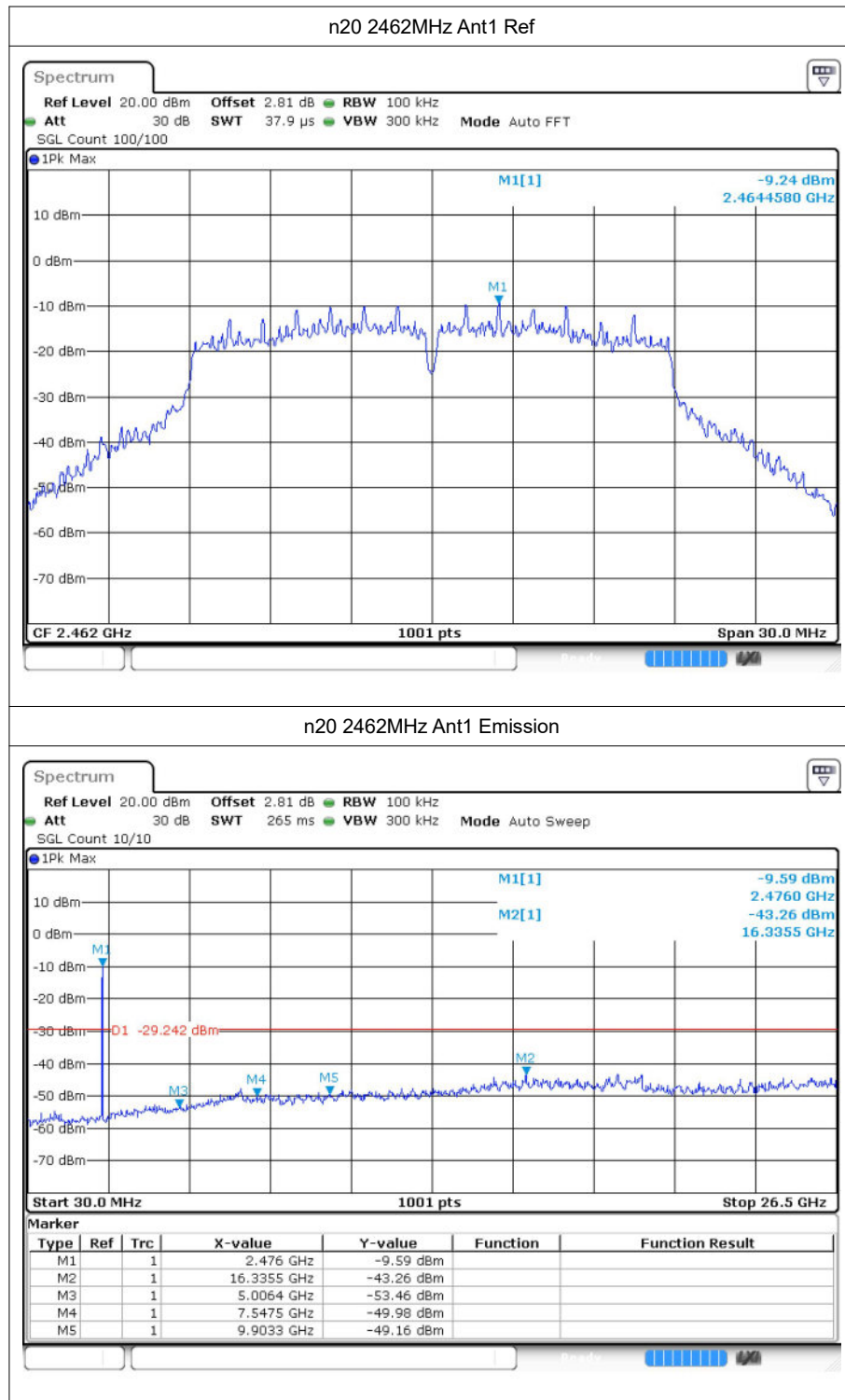














7 Restrict Band

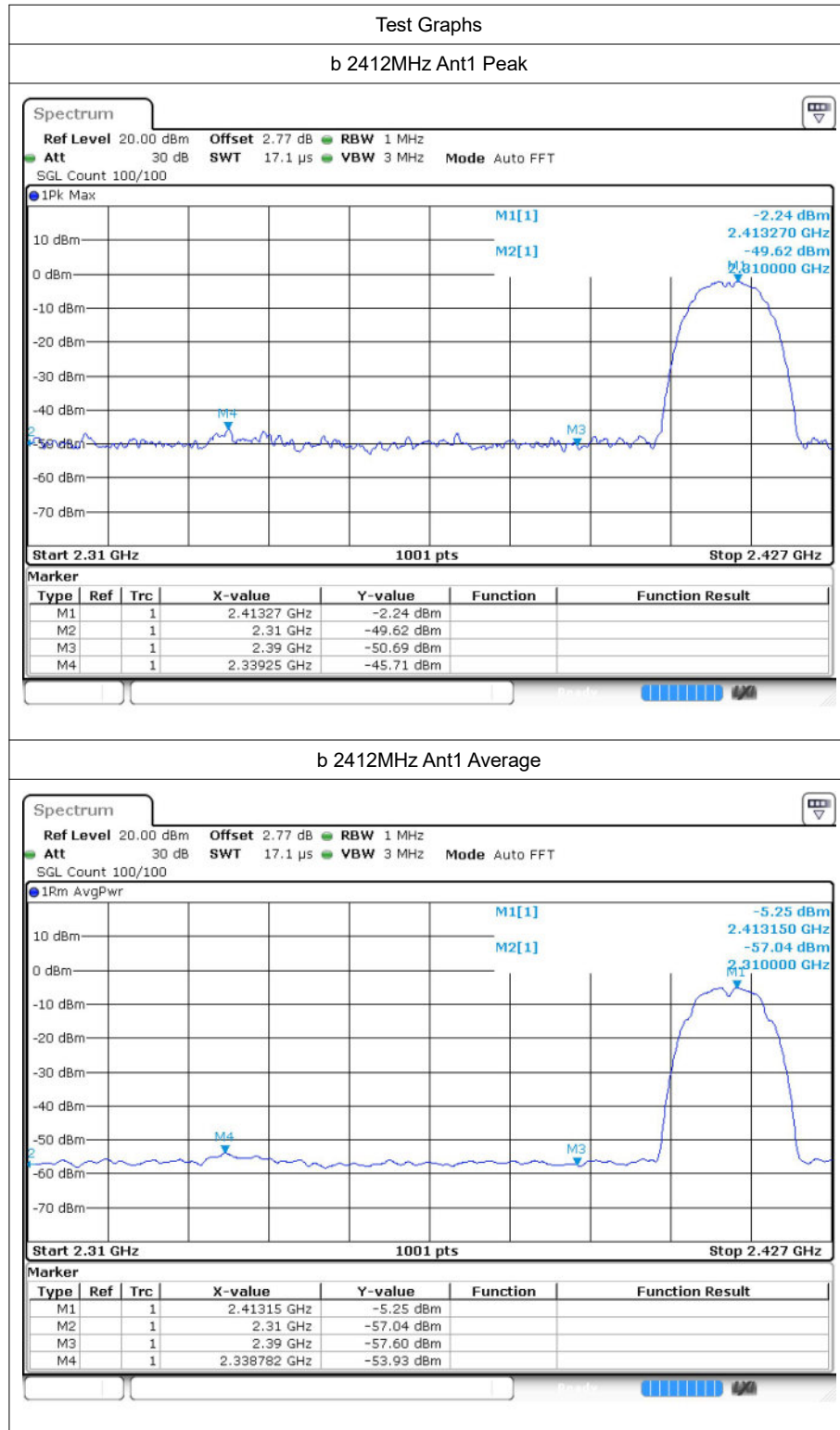
7.1 Test Result

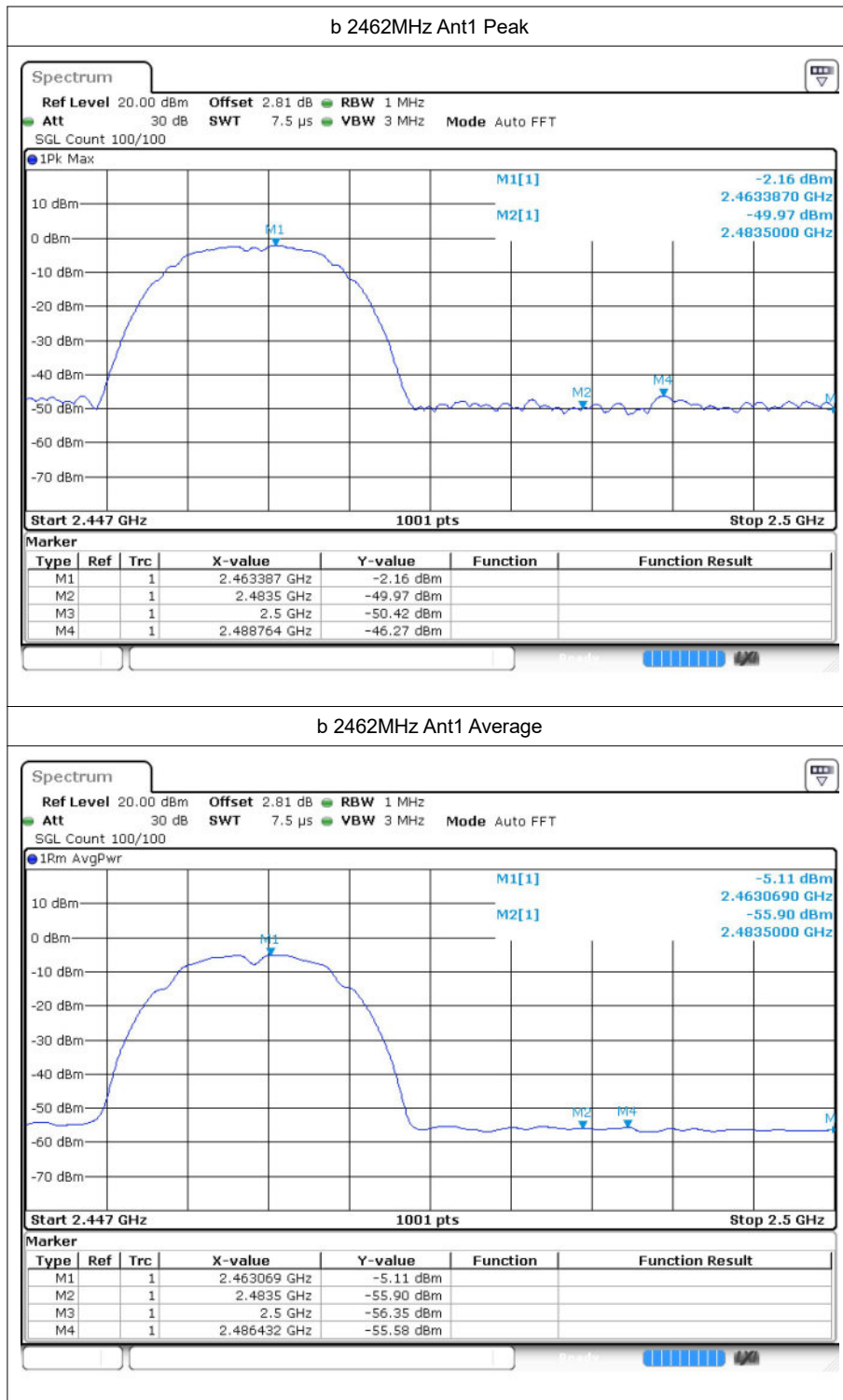
Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
b	2412	Ant1	2310	-49.62	2.62	-	48.23	Peak	74	Pass
b	2412	Ant1	2310	-57.04	2.62	0	40.81	Average	54	Pass
b	2412	Ant1	2339.25	-45.7	2.62	-	52.15	Peak	74	Pass
b	2412	Ant1	2338.782	-53.93	2.62	0	43.92	Average	54	Pass
b	2412	Ant1	2390	-50.69	2.62	-	47.16	Peak	74	Pass
b	2412	Ant1	2390	-57.6	2.62	0	40.25	Average	54	Pass
b	2462	Ant1	2483.5	-49.97	2.62	-	47.88	Peak	74	Pass
b	2462	Ant1	2483.5	-55.9	2.62	0	41.95	Average	54	Pass
b	2462	Ant1	2488.764	-46.27	2.62	-	51.58	Peak	74	Pass
b	2462	Ant1	2486.432	-55.57	2.62	0	42.28	Average	54	Pass
b	2462	Ant1	2500	-50.42	2.62	-	47.43	Peak	74	Pass
b	2462	Ant1	2500	-56.35	2.62	0	41.50	Average	54	Pass
g	2412	Ant1	2310	-46.76	2.62	-	51.09	Peak	74	Pass
g	2412	Ant1	2310	-56.85	2.62	0.61	41.61	Average	54	Pass
g	2412	Ant1	2310	-46.75	2.62	-	51.10	Peak	74	Pass
g	2412	Ant1	2337.495	-54.24	2.62	0.61	44.22	Average	54	Pass
g	2412	Ant1	2390	-48.38	2.62	-	49.47	Peak	74	Pass
g	2412	Ant1	2390	-57.07	2.62	0.61	41.39	Average	54	Pass
g	2462	Ant1	2483.5	-49.42	2.62	-	48.43	Peak	74	Pass
g	2462	Ant1	2483.5	-57.42	2.62	0.61	41.04	Average	54	Pass
g	2462	Ant1	2488.764	-46.65	2.62	-	51.20	Peak	74	Pass
g	2462	Ant1	2491.679	-55.47	2.62	0.61	42.99	Average	54	Pass
g	2462	Ant1	2500	-47.28	2.62	-	50.57	Peak	74	Pass
g	2462	Ant1	2500	-56.27	2.62	0.61	42.19	Average	54	Pass
n20	2412	Ant1	2310	-49.85	2.62	-	48.00	Peak	74	Pass
n20	2412	Ant1	2310	-56.21	2.62	0.58	42.22	Average	54	Pass
n20	2412	Ant1	2338.197	-45.93	2.62	-	51.92	Peak	74	Pass
n20	2412	Ant1	2340.888	-54.92	2.62	0.58	43.51	Average	54	Pass
n20	2412	Ant1	2390	-51.77	2.62	-	46.08	Peak	74	Pass
n20	2412	Ant1	2390	-56.99	2.62	0.58	41.44	Average	54	Pass
n20	2462	Ant1	2483.5	-50.46	2.62	-	47.39	Peak	74	Pass
n20	2462	Ant1	2483.5	-55.32	2.62	0.58	43.11	Average	54	Pass
n20	2462	Ant1	2498.198	-47.02	2.62	-	50.83	Peak	74	Pass
n20	2462	Ant1	2483.57	-55.31	2.62	0.58	43.12	Average	54	Pass

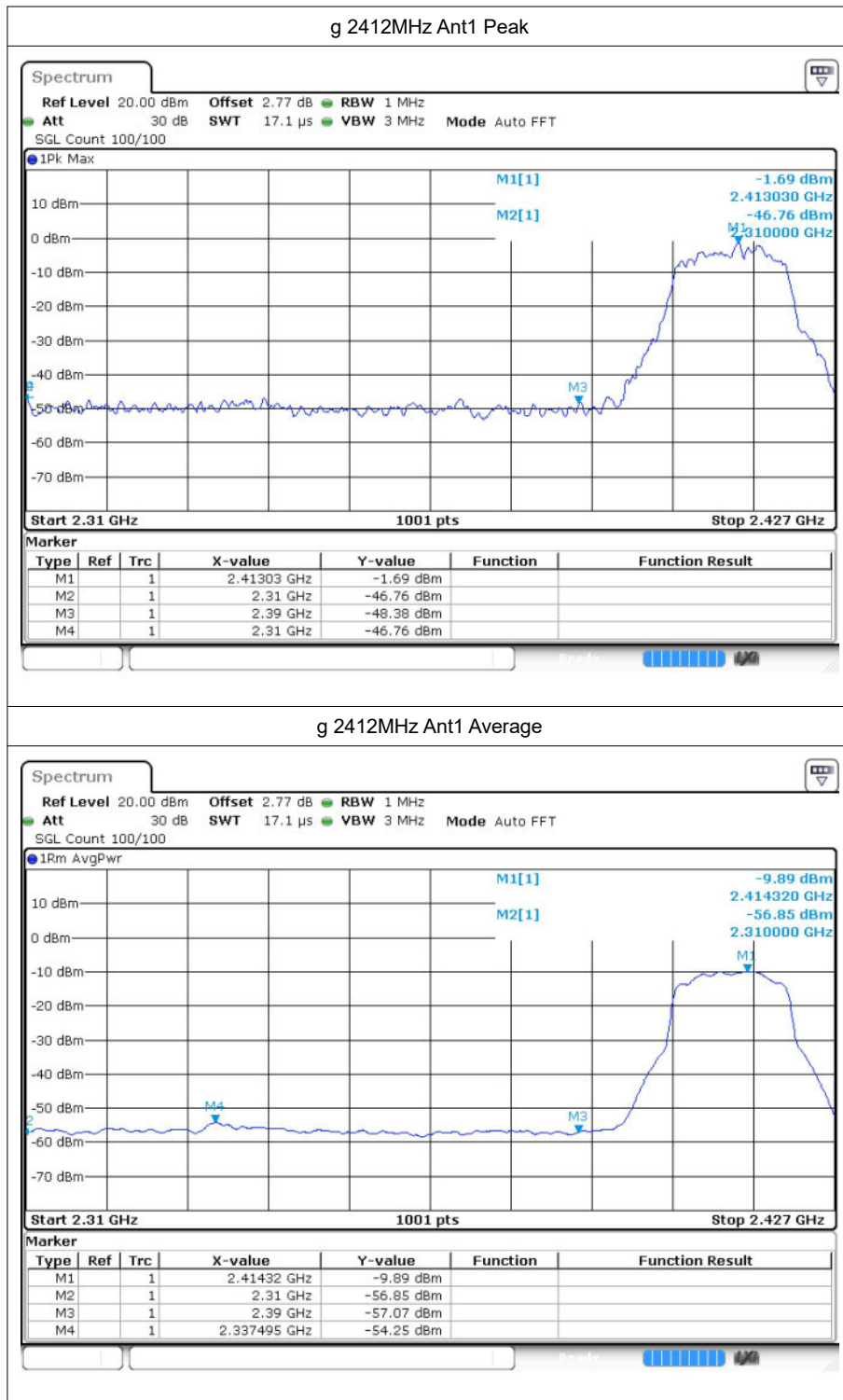


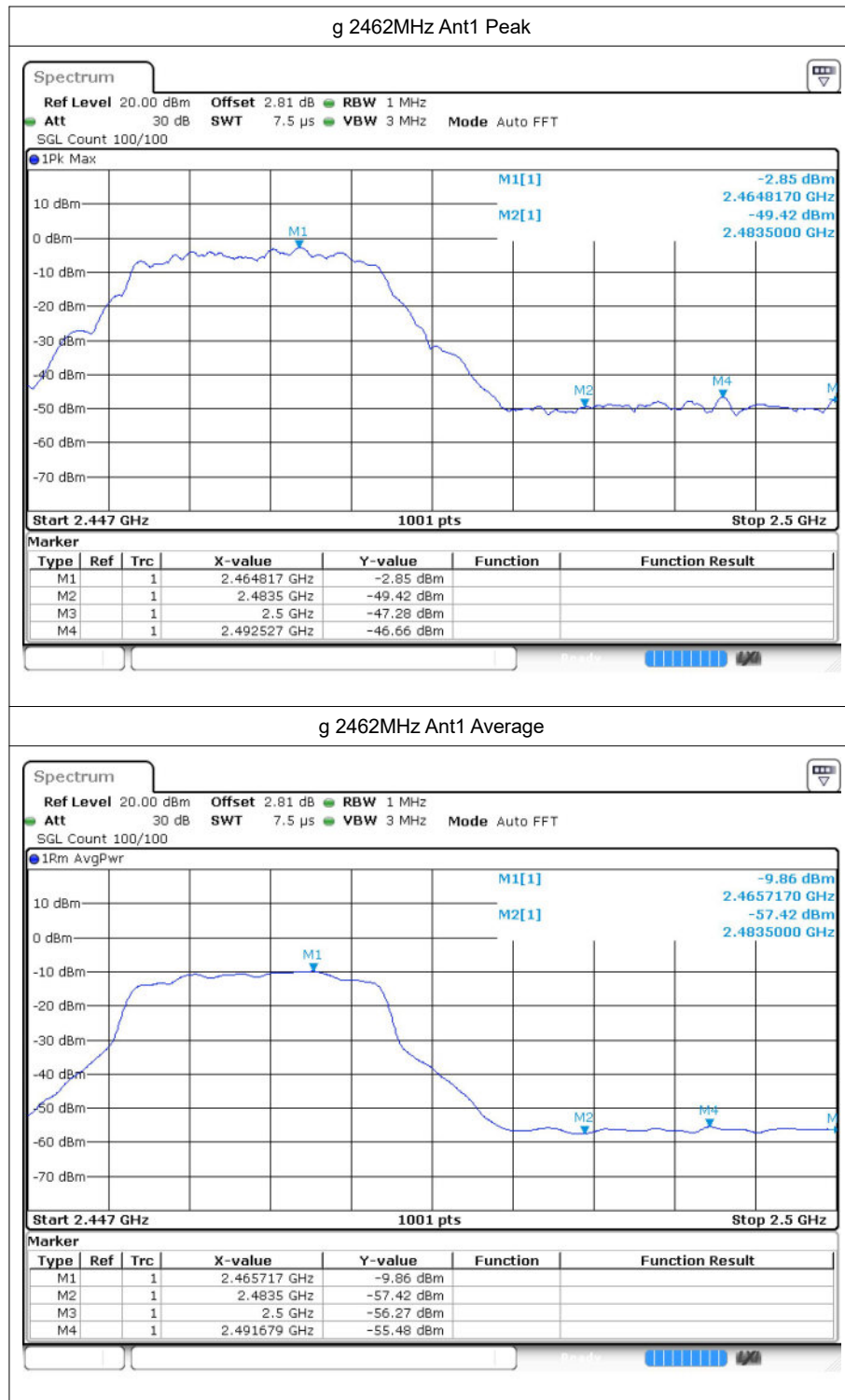
n20	2462	Ant1	2500	-49.26	2.62	-	48.59	Peak	74	Pass
n20	2462	Ant1	2500	-56.23	2.62	0.58	42.20	Average	54	Pass

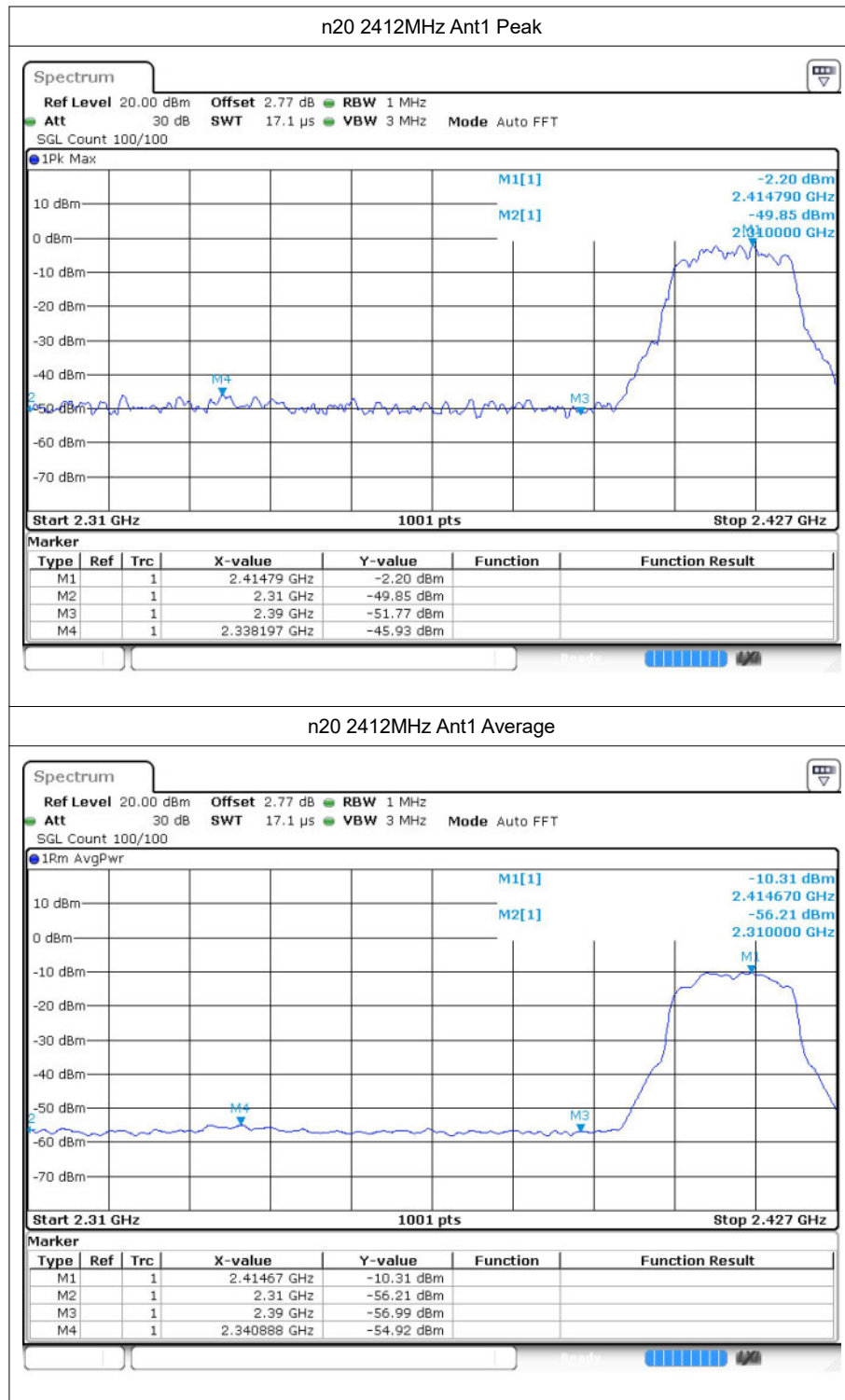
7.2 Test Graphs

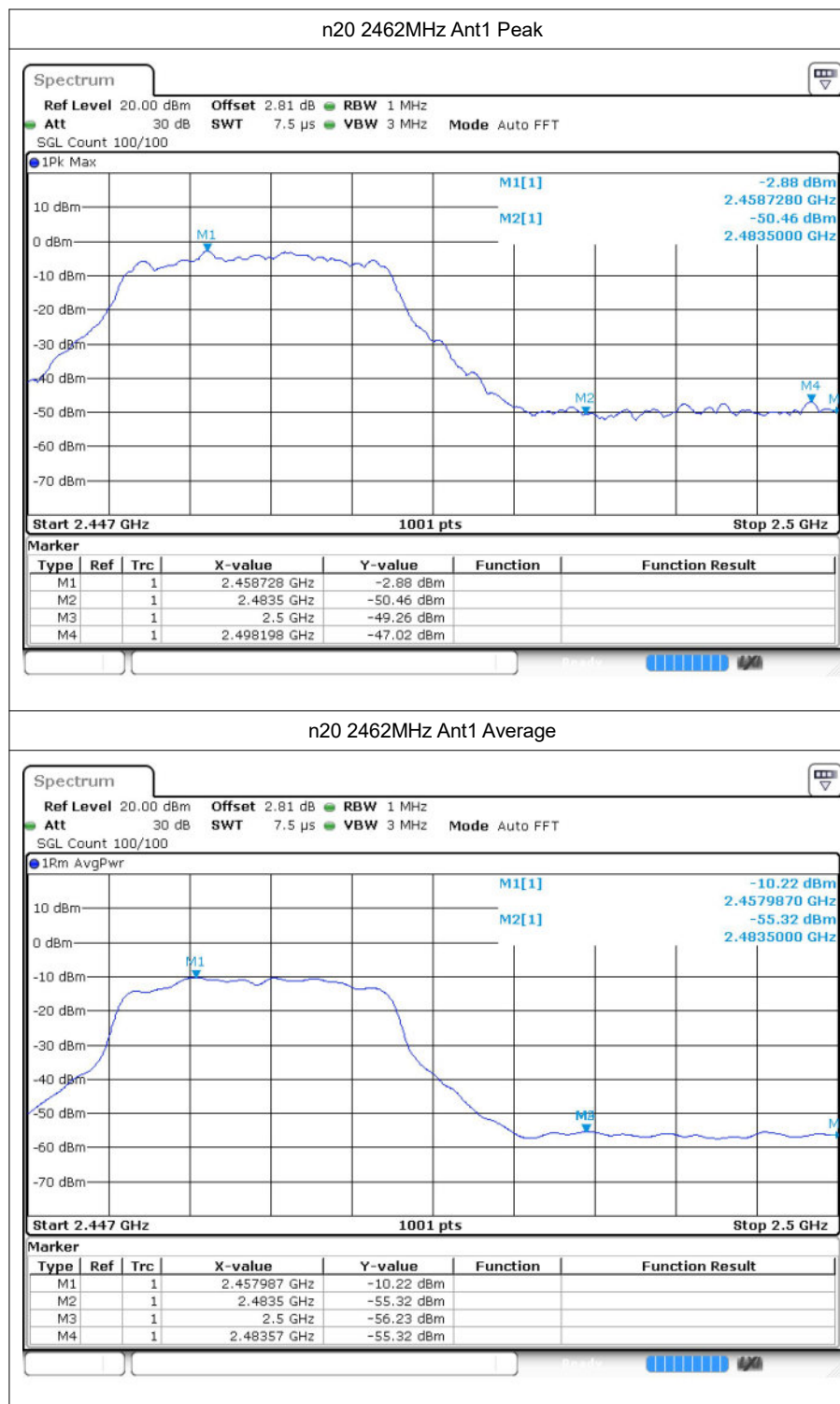












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