



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Android touch advertising machine, intelligent display terminal (with computer and display functions)

Trade Mark: N/A

Test Model: XR101T

Environmental Conditions

Temperature:	25.5° C
Relative Humidity:	51.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Simba Huang
Supervised by:	Seal Chen



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

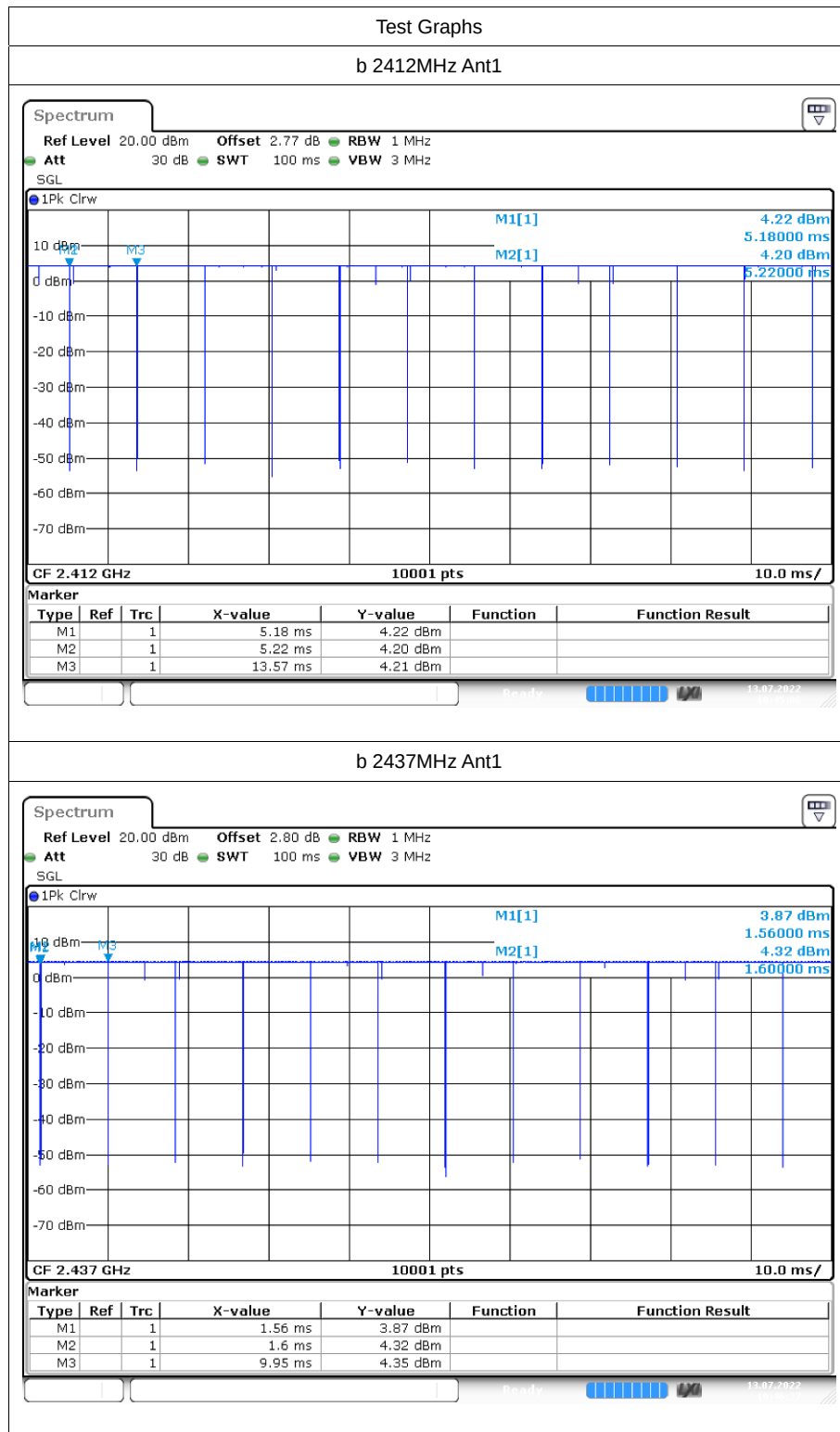


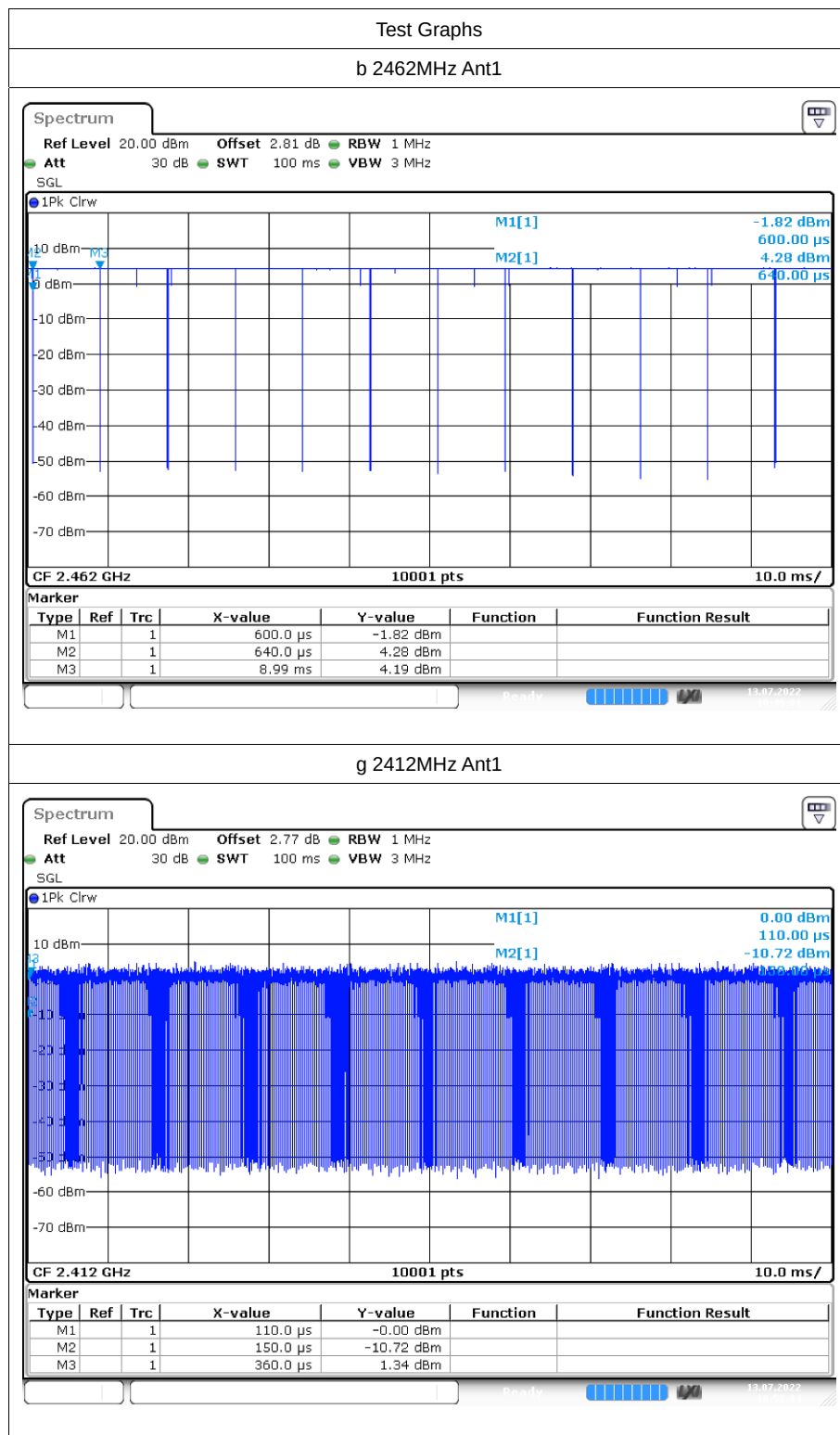
1 Duty Cycle

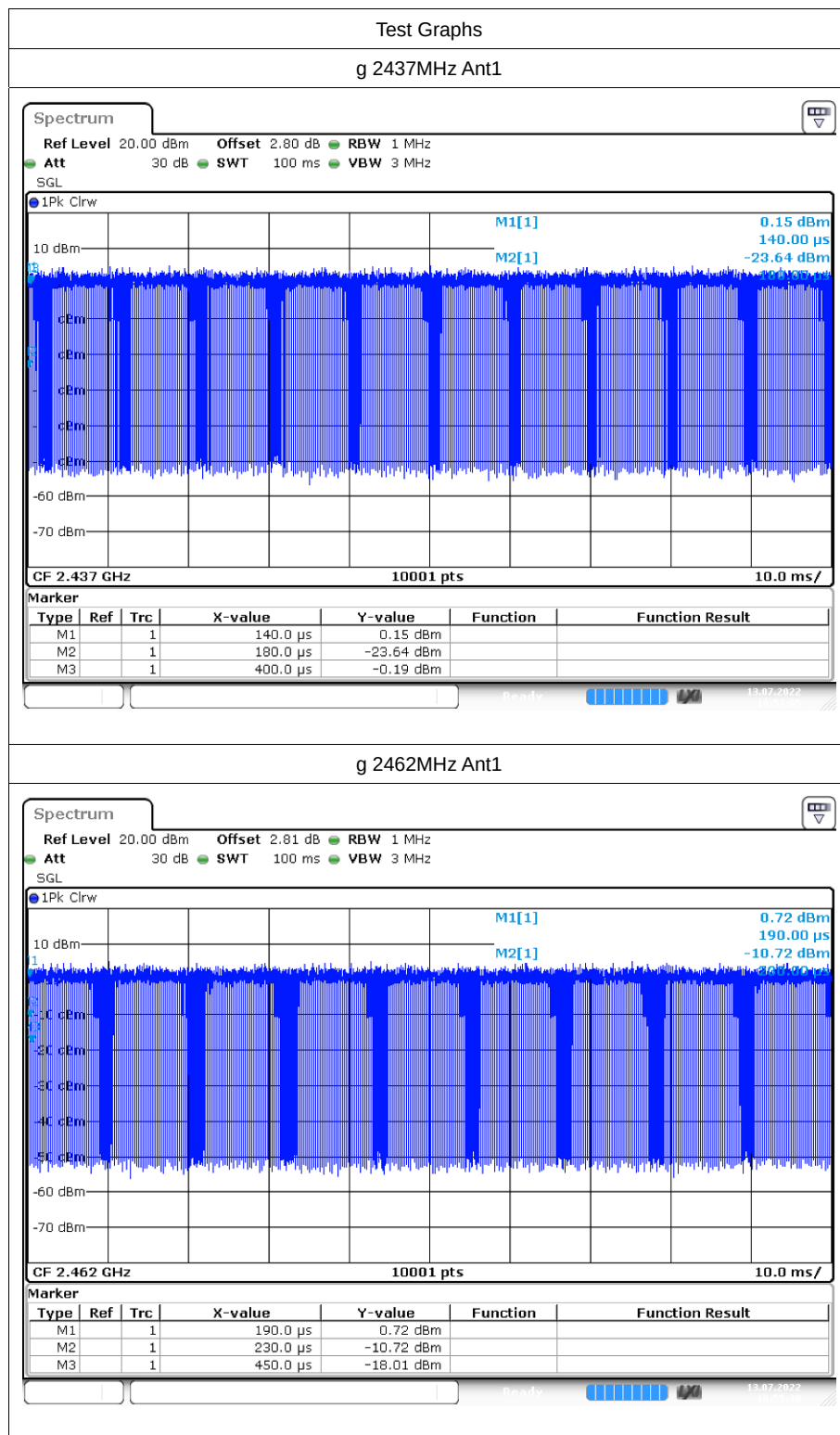
1.1 Test Result

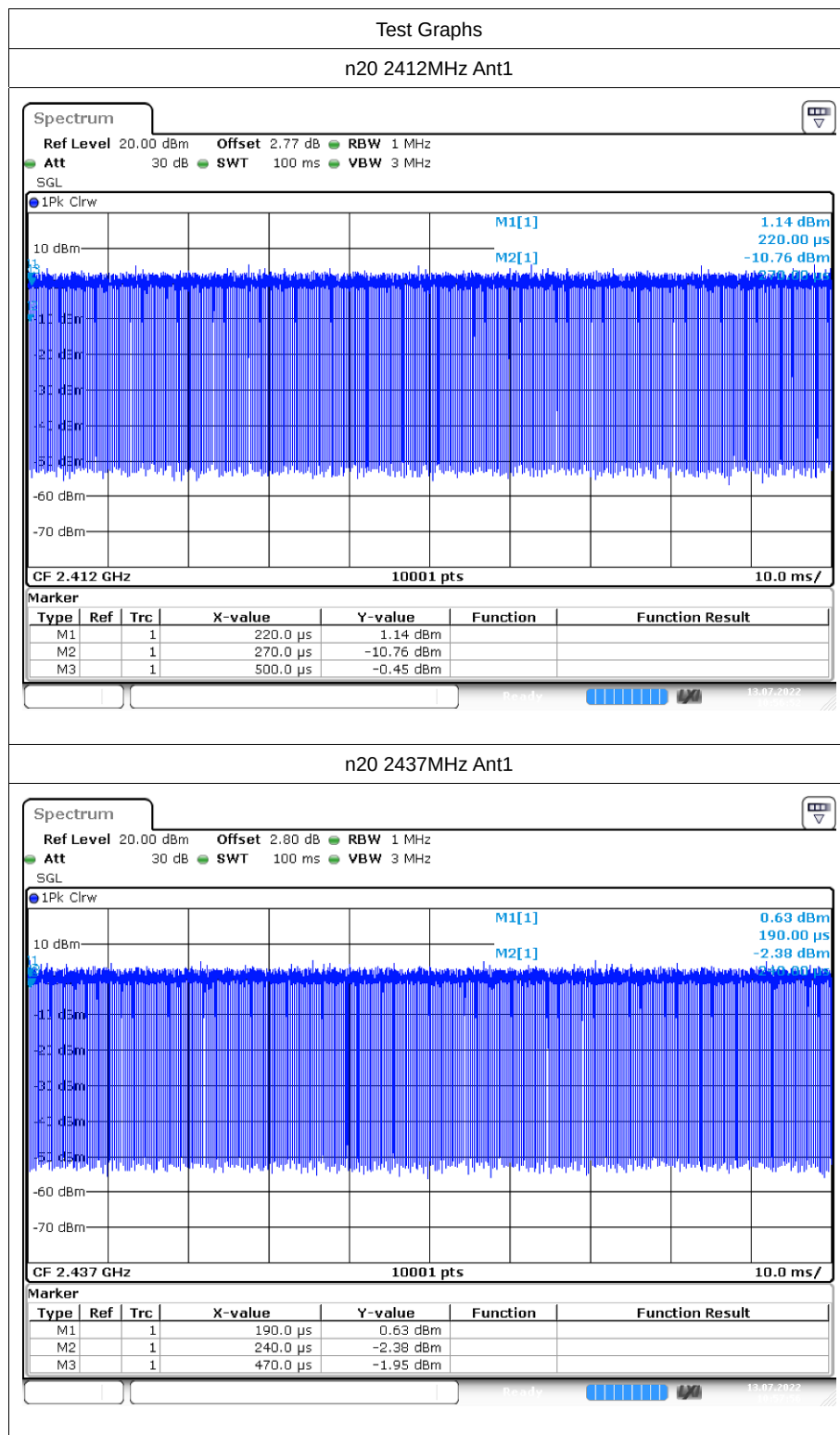
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	1/T (kHz)
b	2412	Ant1	99.6	0.12
b	2437	Ant1	99.61	0.12
b	2462	Ant1	99.59	0.12
g	2412	Ant1	86.93	4.76
g	2437	Ant1	86.8	4.55
g	2462	Ant1	87.04	4.55
n20	2412	Ant1	87.6	4.35
n20	2437	Ant1	87.61	4.35
n20	2462	Ant1	87.57	4.35

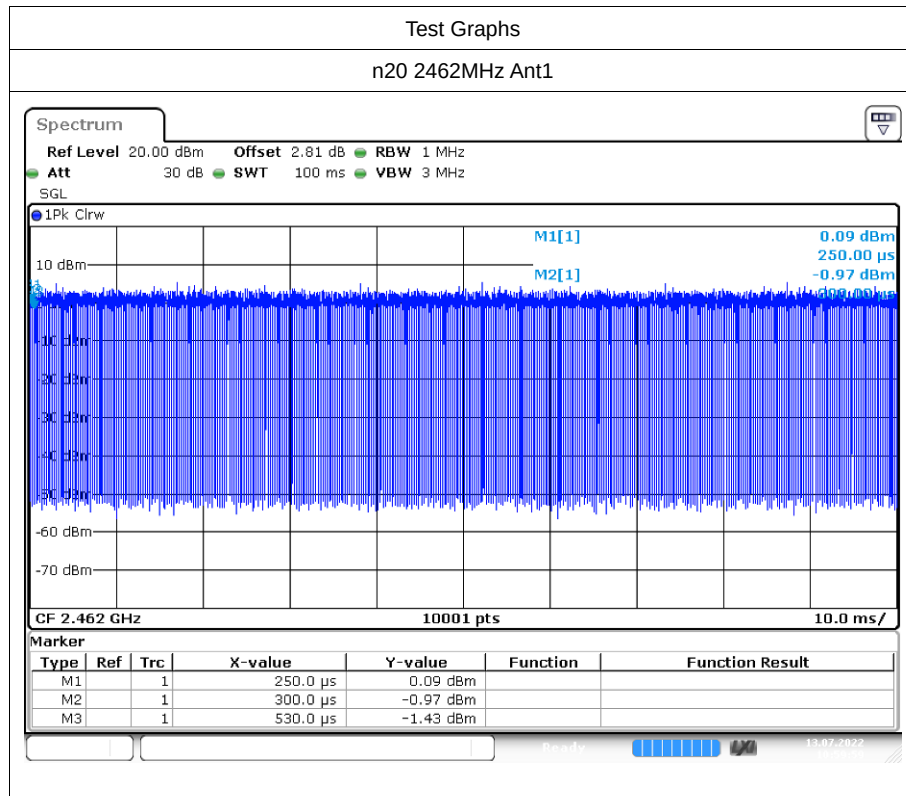
1.2 Test Graphs













2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant1	14.7	30	Pass
b	2437	Ant1	14.78	30	Pass
b	2462	Ant1	14.7	30	Pass
g	2412	Ant1	14.22	30	Pass
g	2437	Ant1	14.27	30	Pass
g	2462	Ant1	14.28	30	Pass
n20	2412	Ant1	14.21	30	Pass
n20	2437	Ant1	14.37	30	Pass
n20	2462	Ant1	14.25	30	Pass

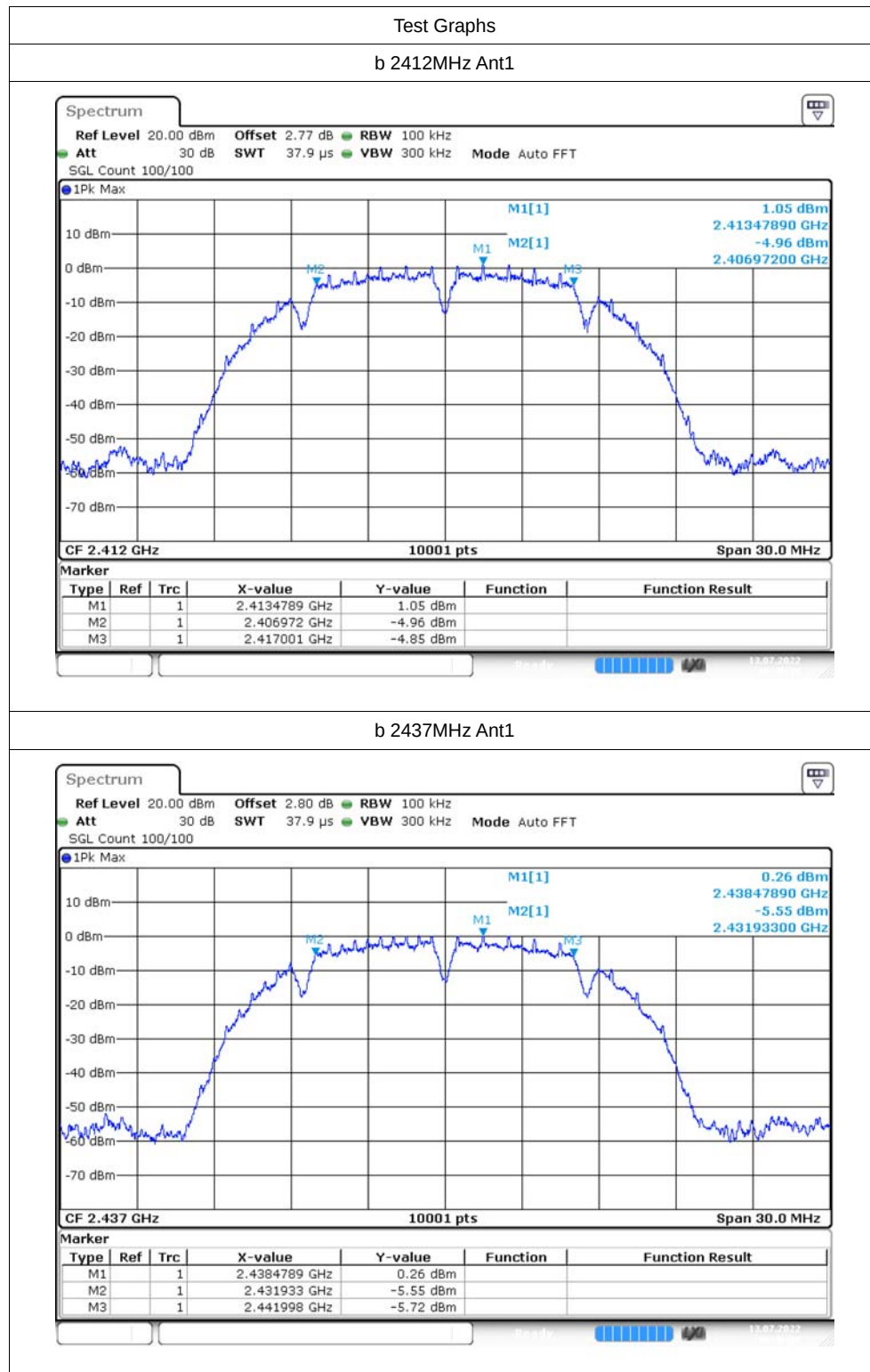


3 -6dB Bandwidth

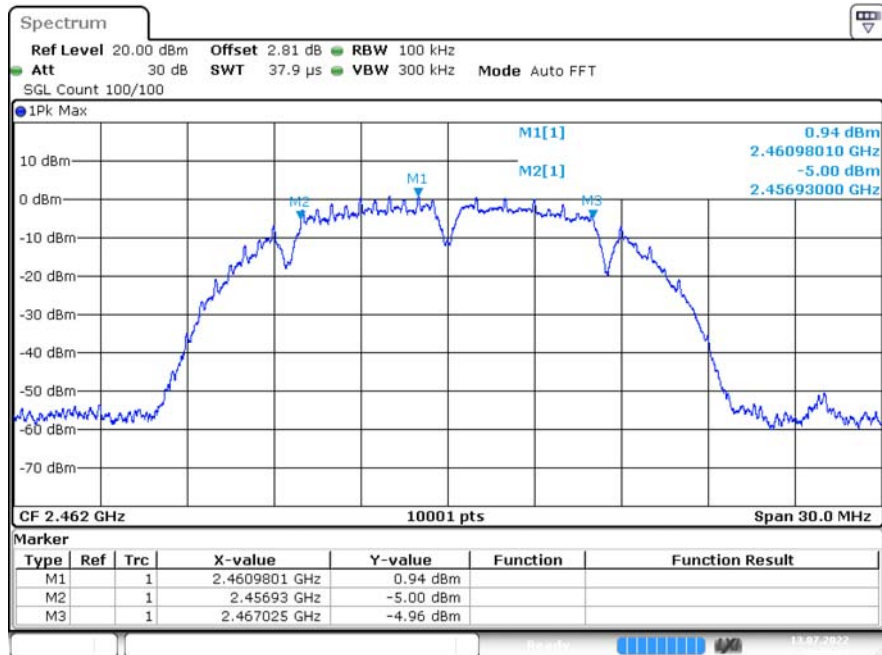
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	10.029	0.5	Pass
b	2437	Ant1	10.065	0.5	Pass
b	2462	Ant1	10.095	0.5	Pass
g	2412	Ant1	15.114	0.5	Pass
g	2437	Ant1	15.117	0.5	Pass
g	2462	Ant1	15.111	0.5	Pass
n20	2412	Ant1	15.123	0.5	Pass
n20	2437	Ant1	15.105	0.5	Pass
n20	2462	Ant1	15.099	0.5	Pass

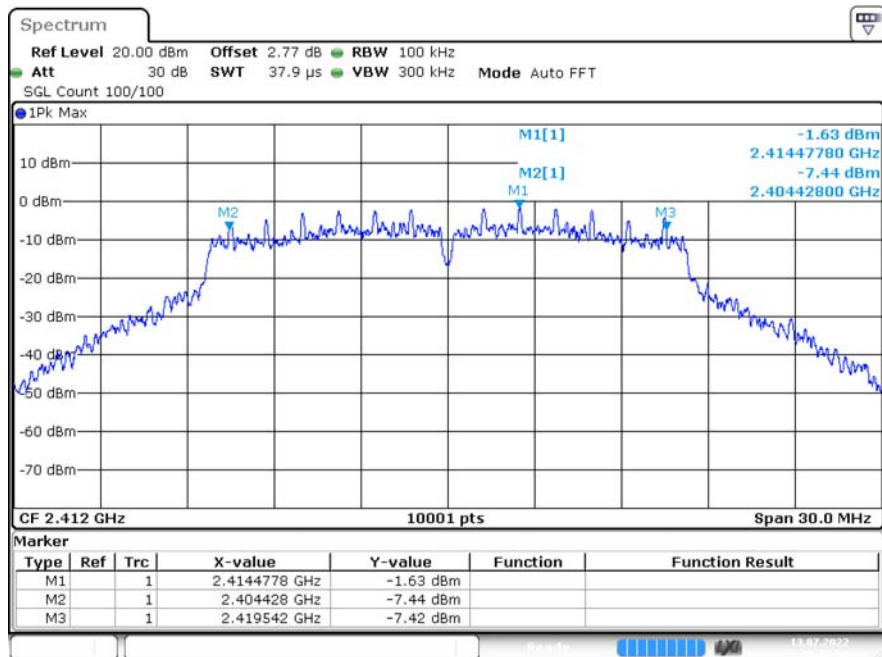
3.2 Test Graphs



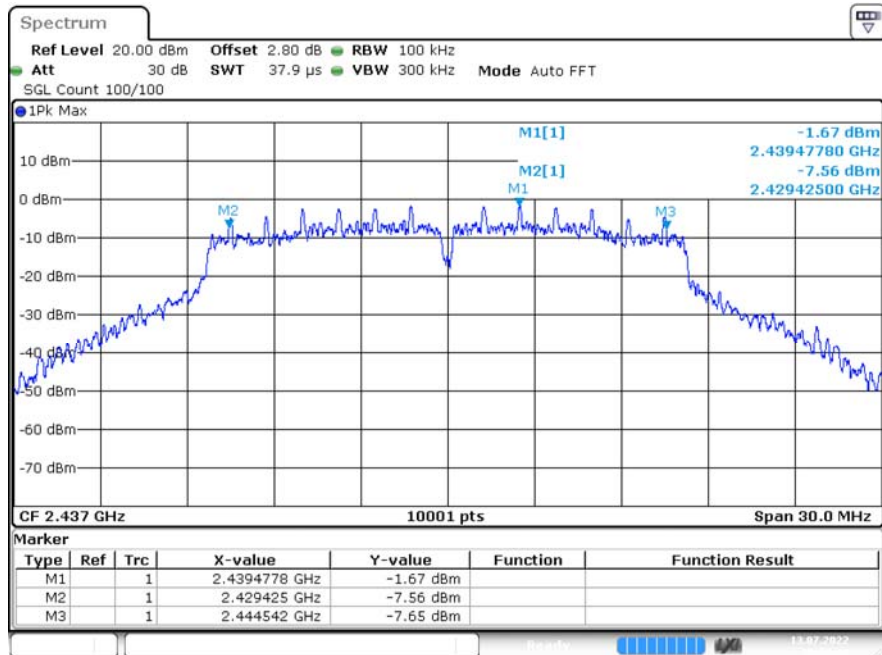
b 2462MHz Ant1



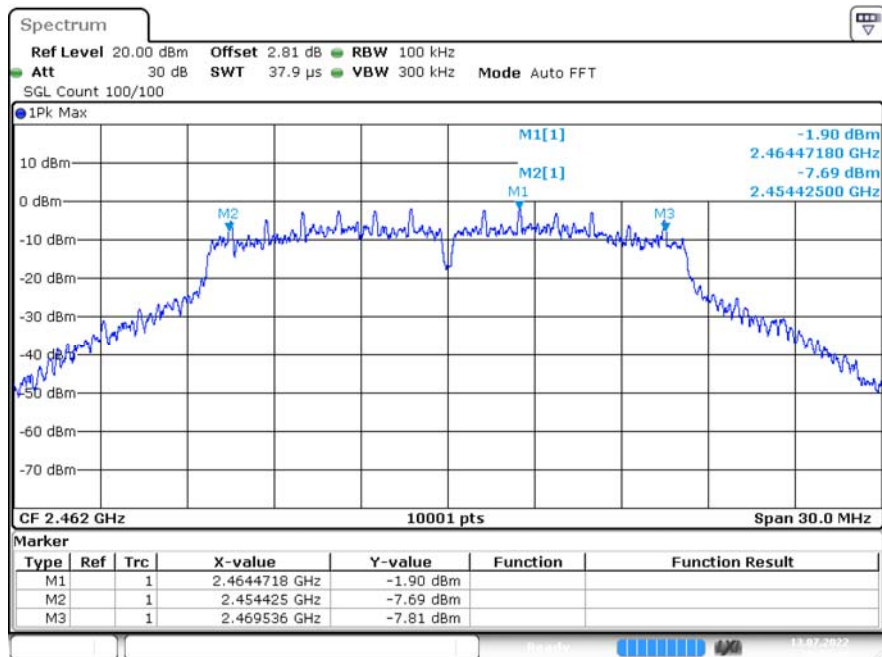
g 2412MHz Ant1



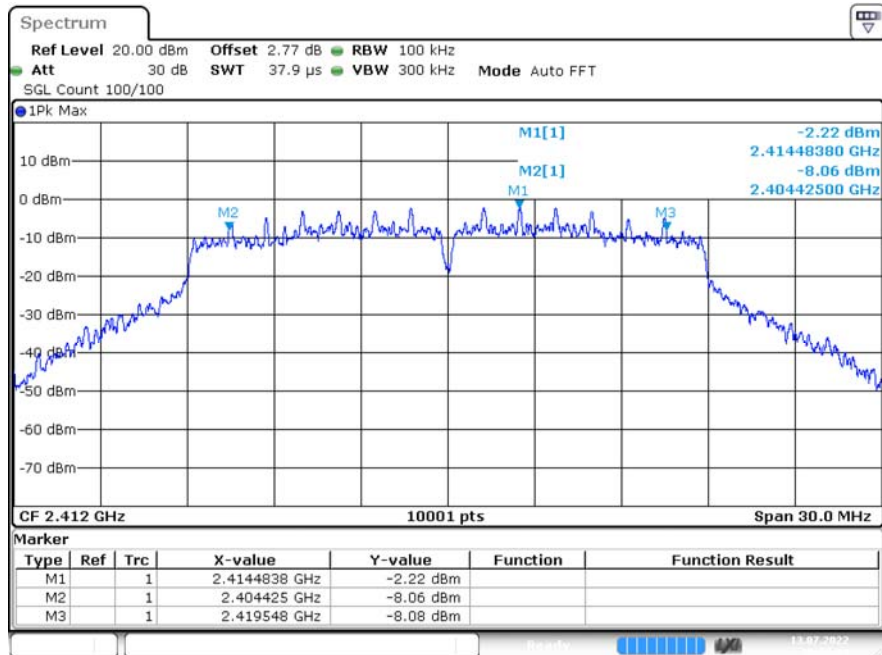
g 2437MHz Ant1



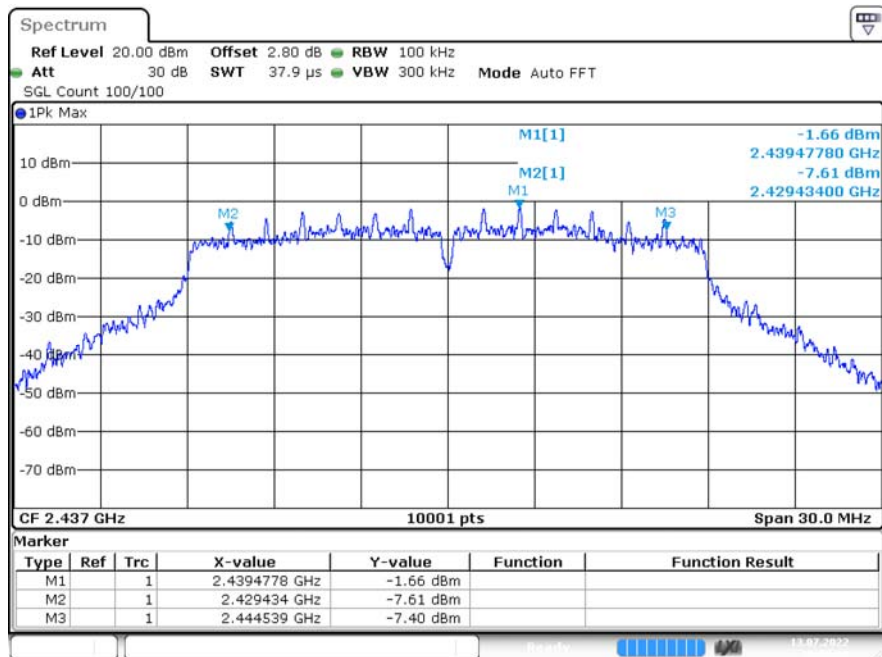
g 2462MHz Ant1

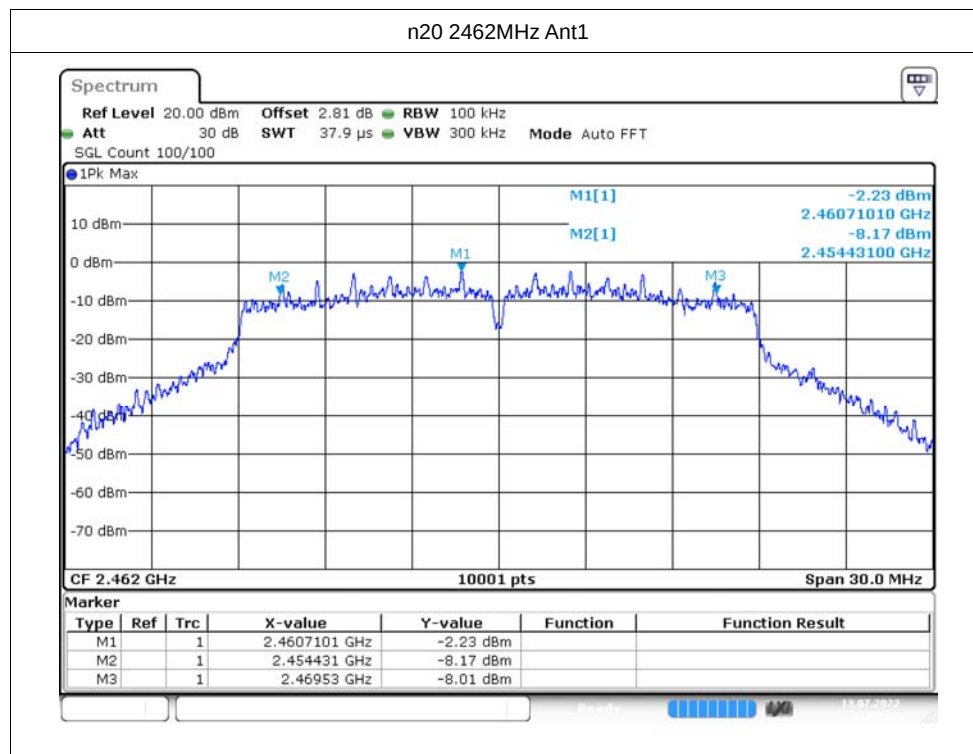


n20 2412MHz Ant1



n20 2437MHz Ant1



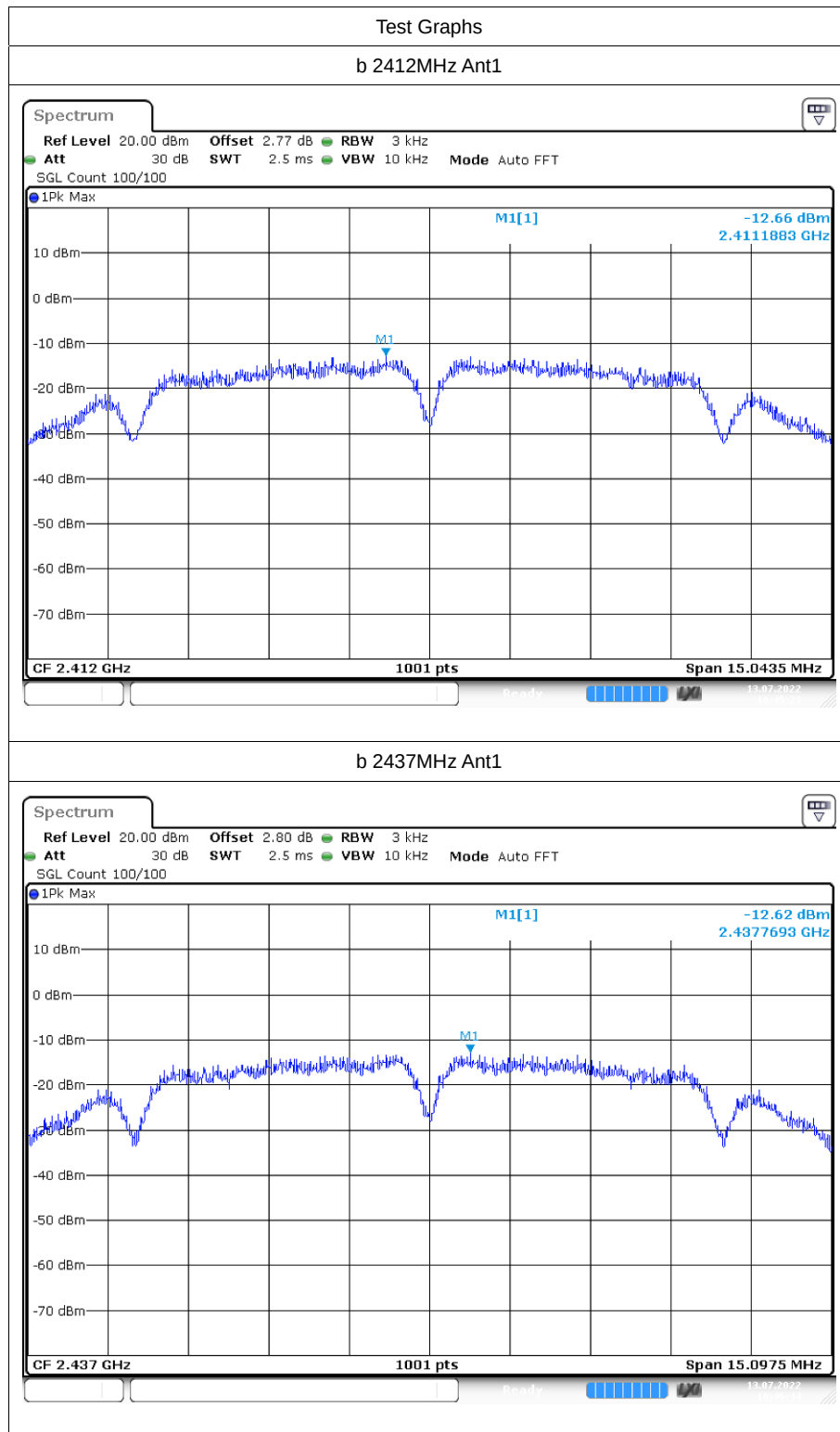


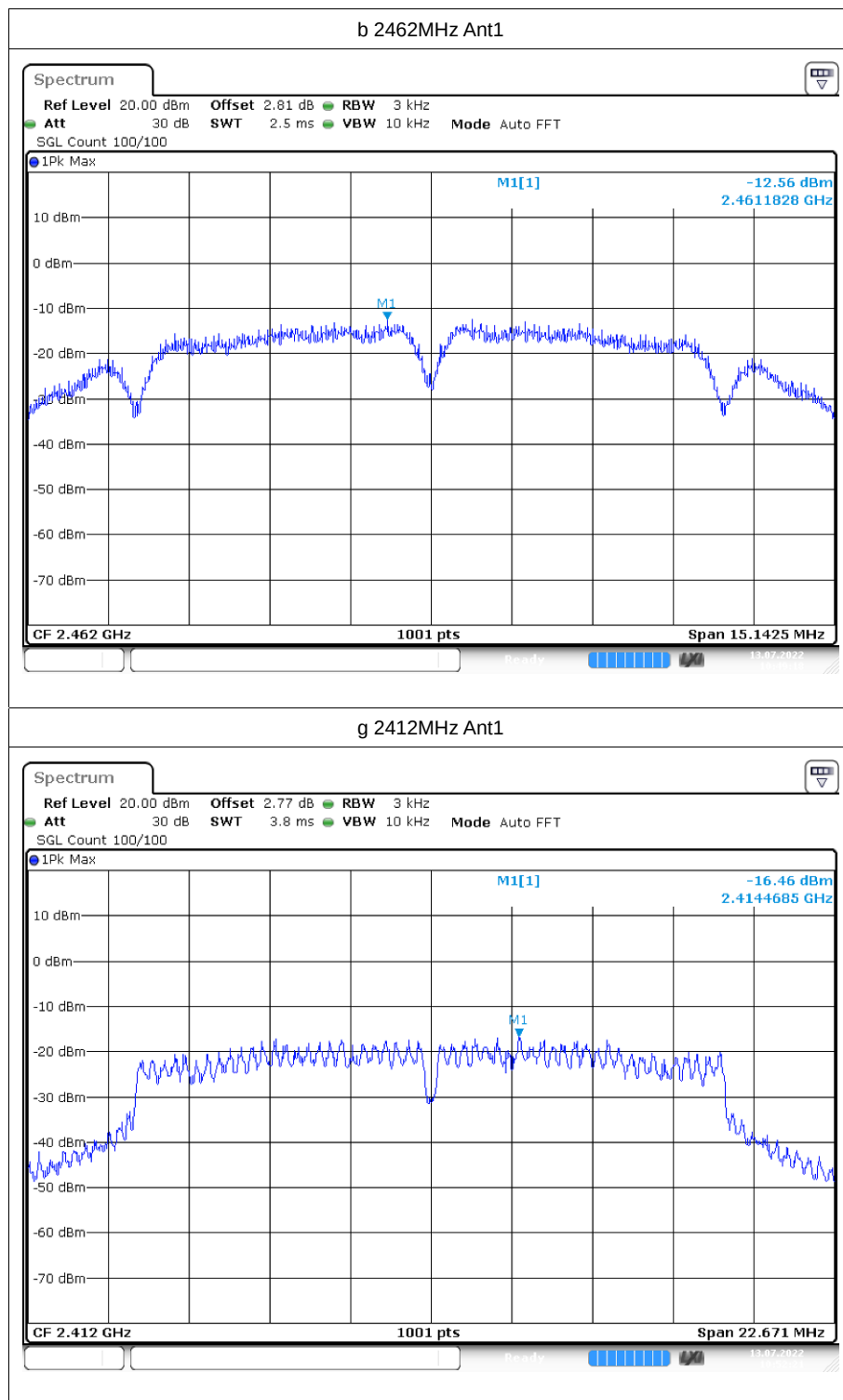
4 Maximum Power Spectral Density Level

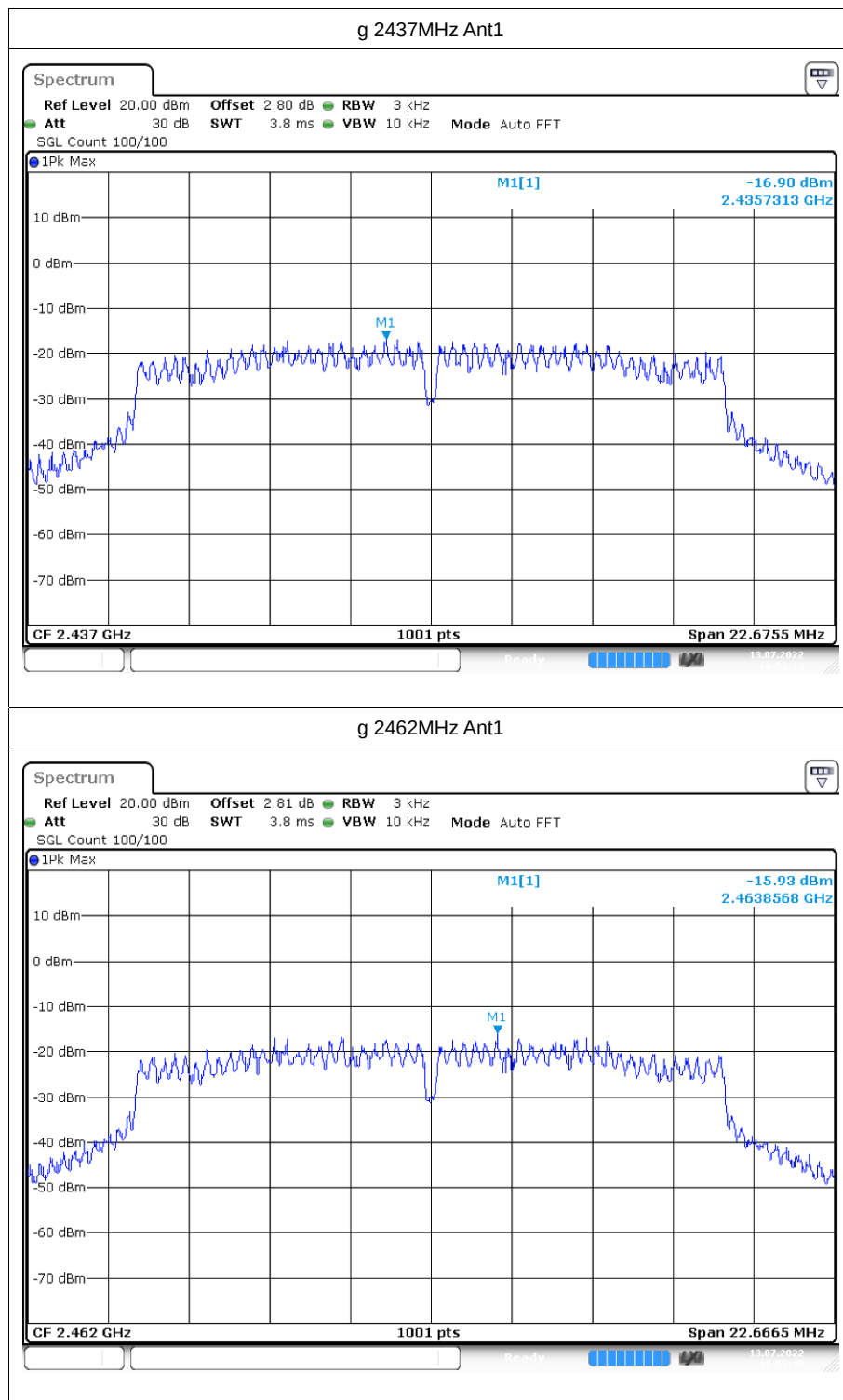
4.1 Test Result

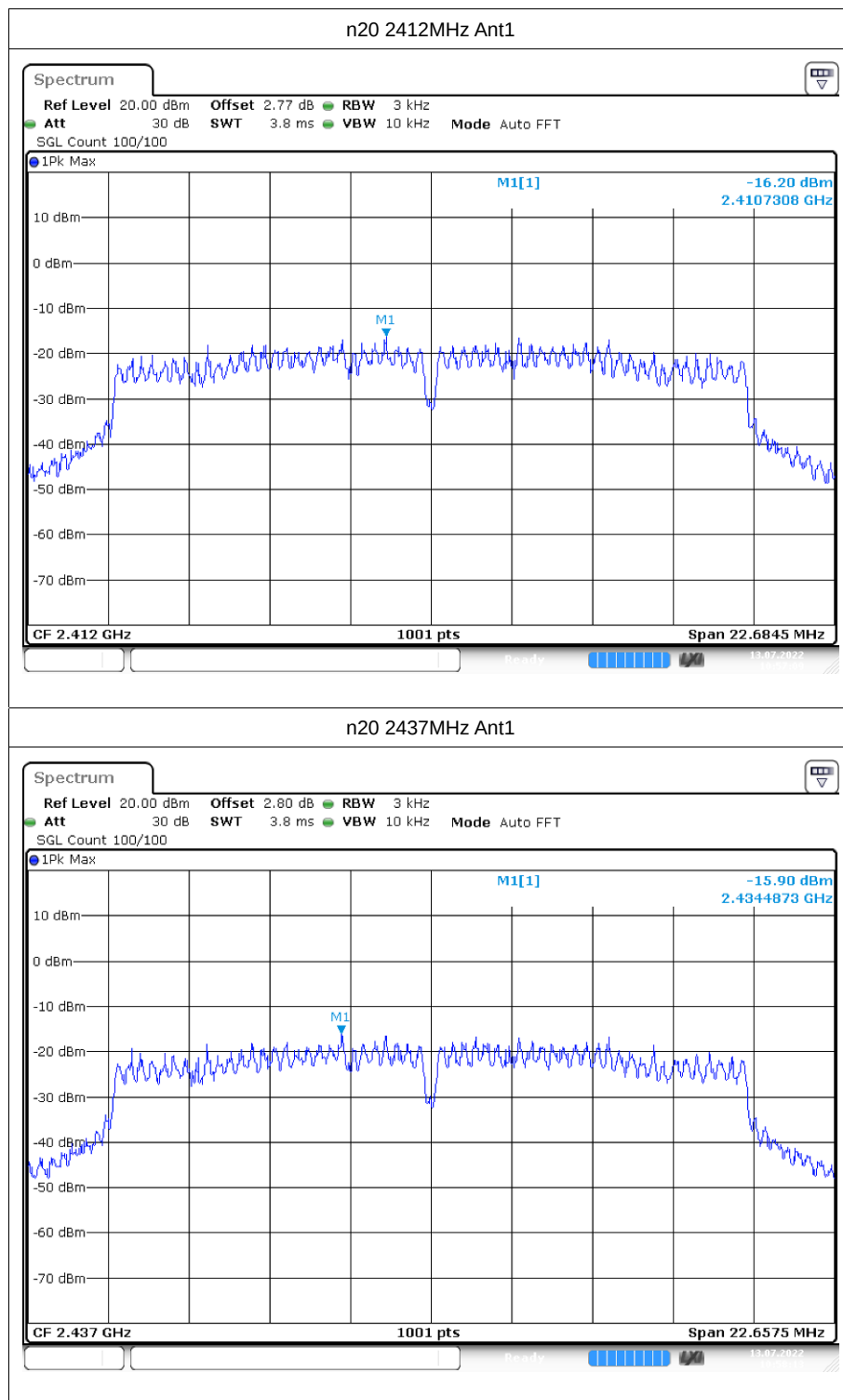
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
b	2412	Ant1	-12.66	≤ 8	Pass
b	2437	Ant1	-12.62	≤ 8	Pass
b	2462	Ant1	-12.56	≤ 8	Pass
g	2412	Ant1	-16.46	≤ 8	Pass
g	2437	Ant1	-16.9	≤ 8	Pass
g	2462	Ant1	-15.93	≤ 8	Pass
n20	2412	Ant1	-16.2	≤ 8	Pass
n20	2437	Ant1	-15.9	≤ 8	Pass
n20	2462	Ant1	-16.72	≤ 8	Pass

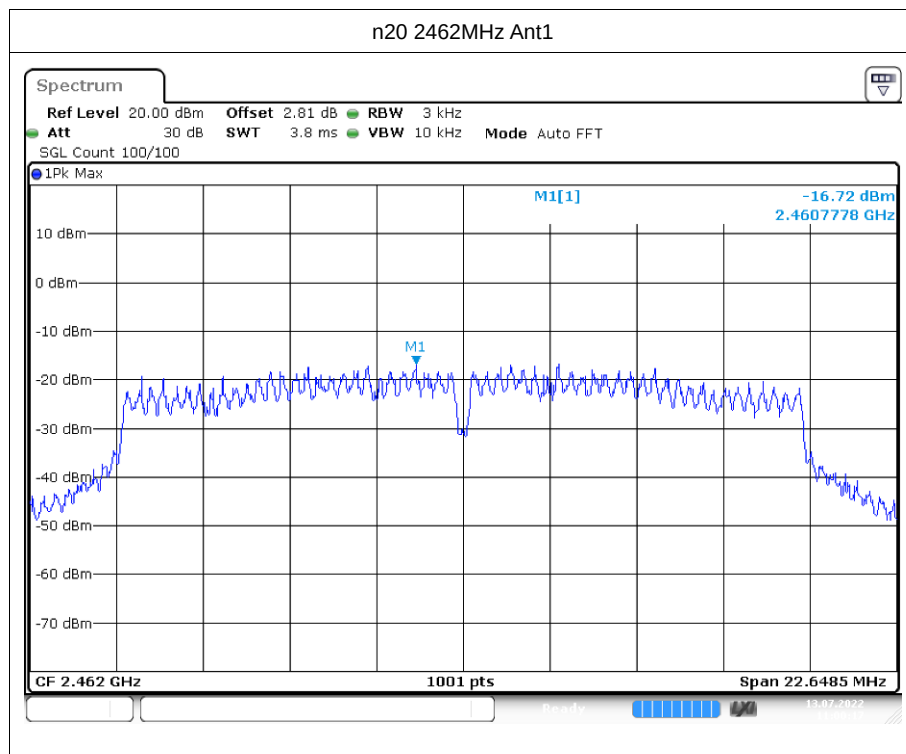
4.2 Test Graphs











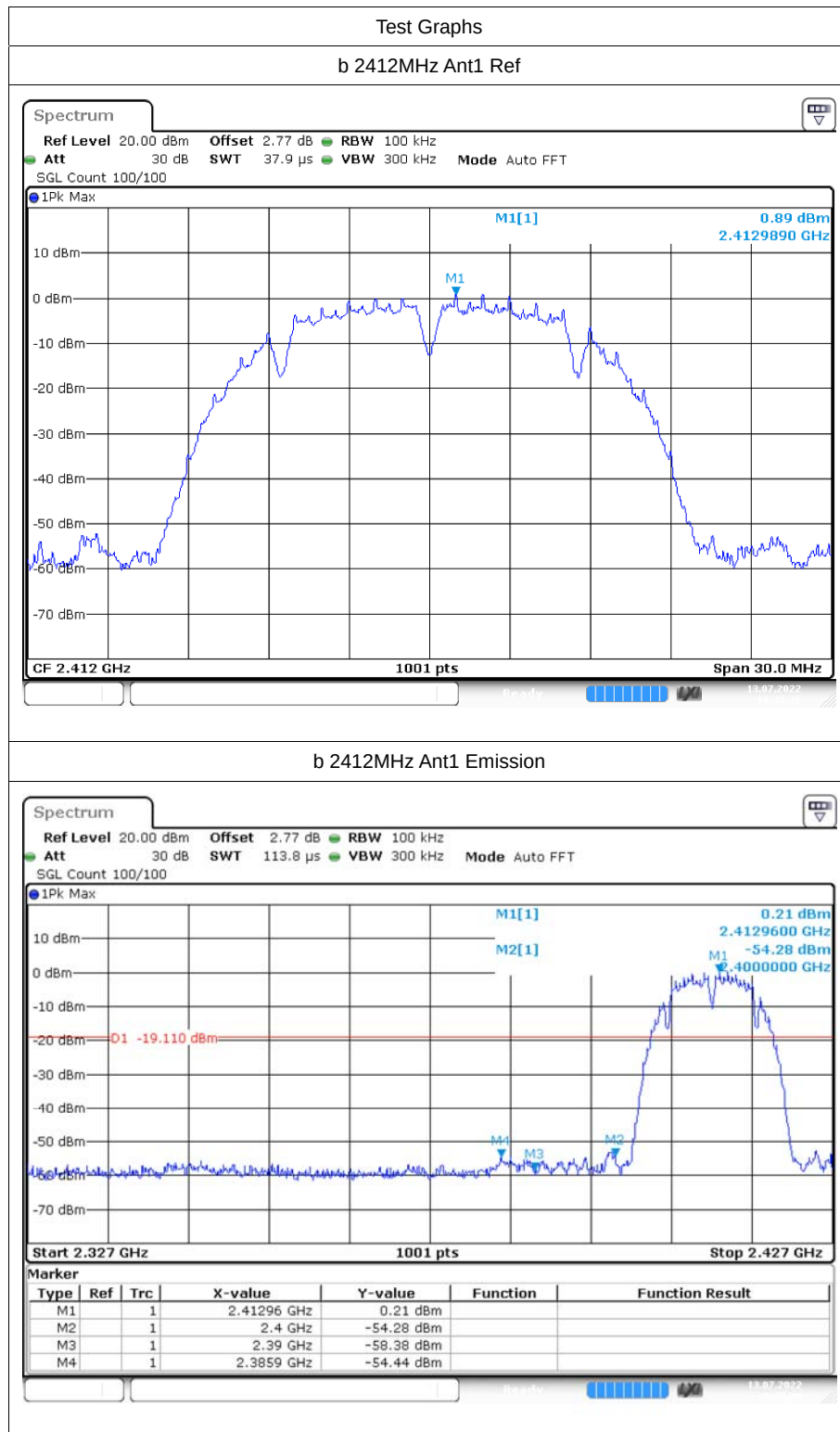


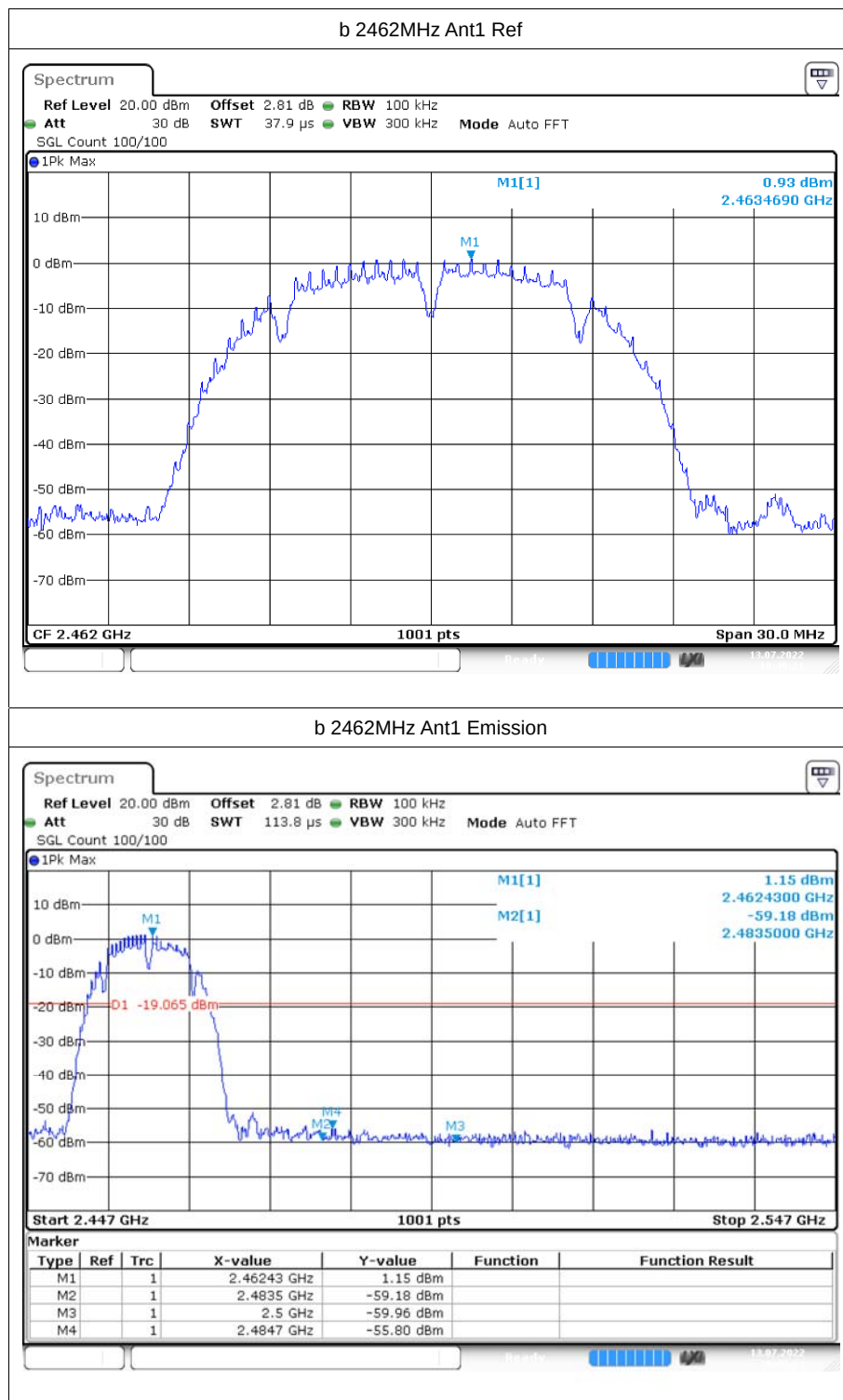
5 Band Edge

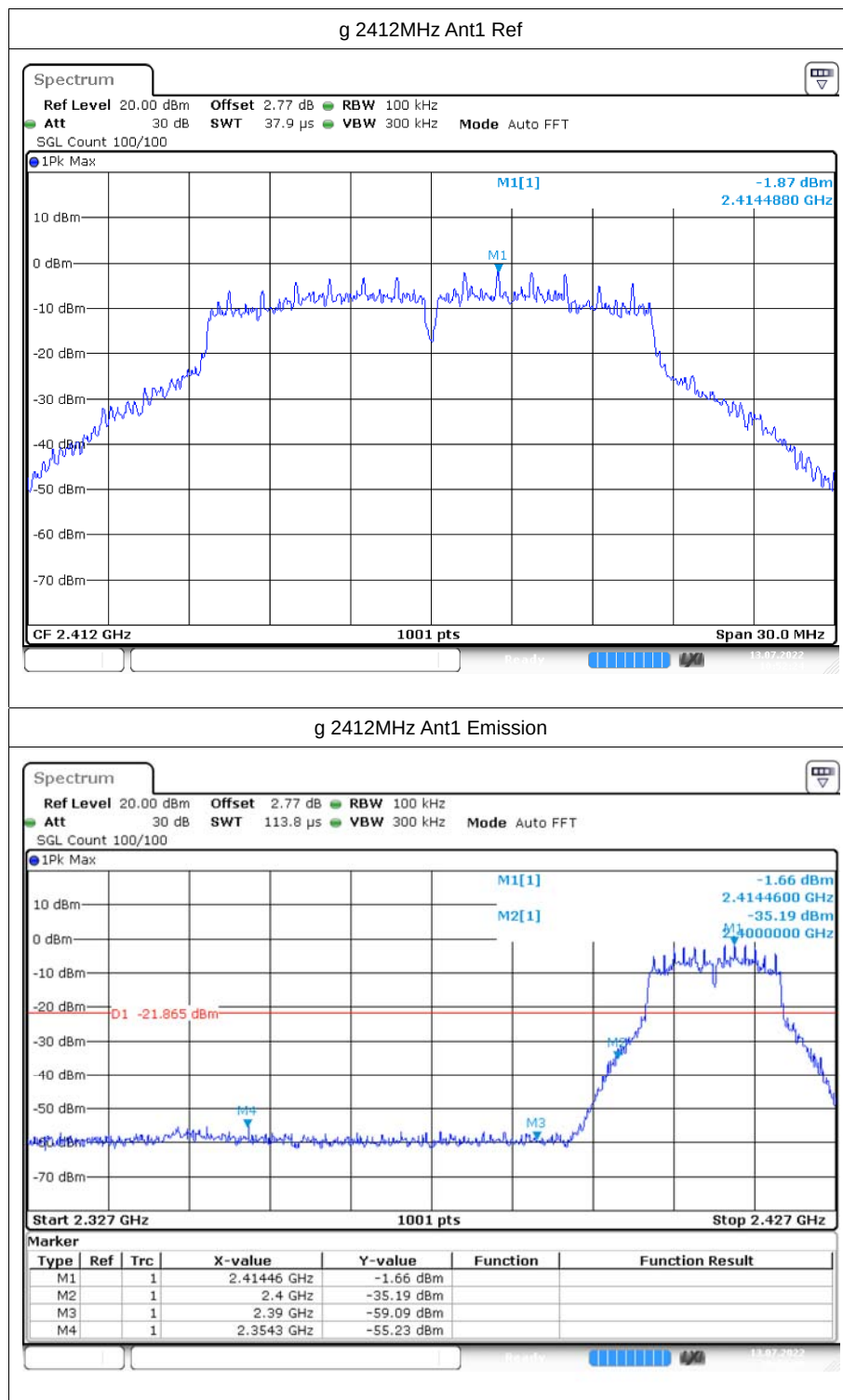
5.1 Test Result

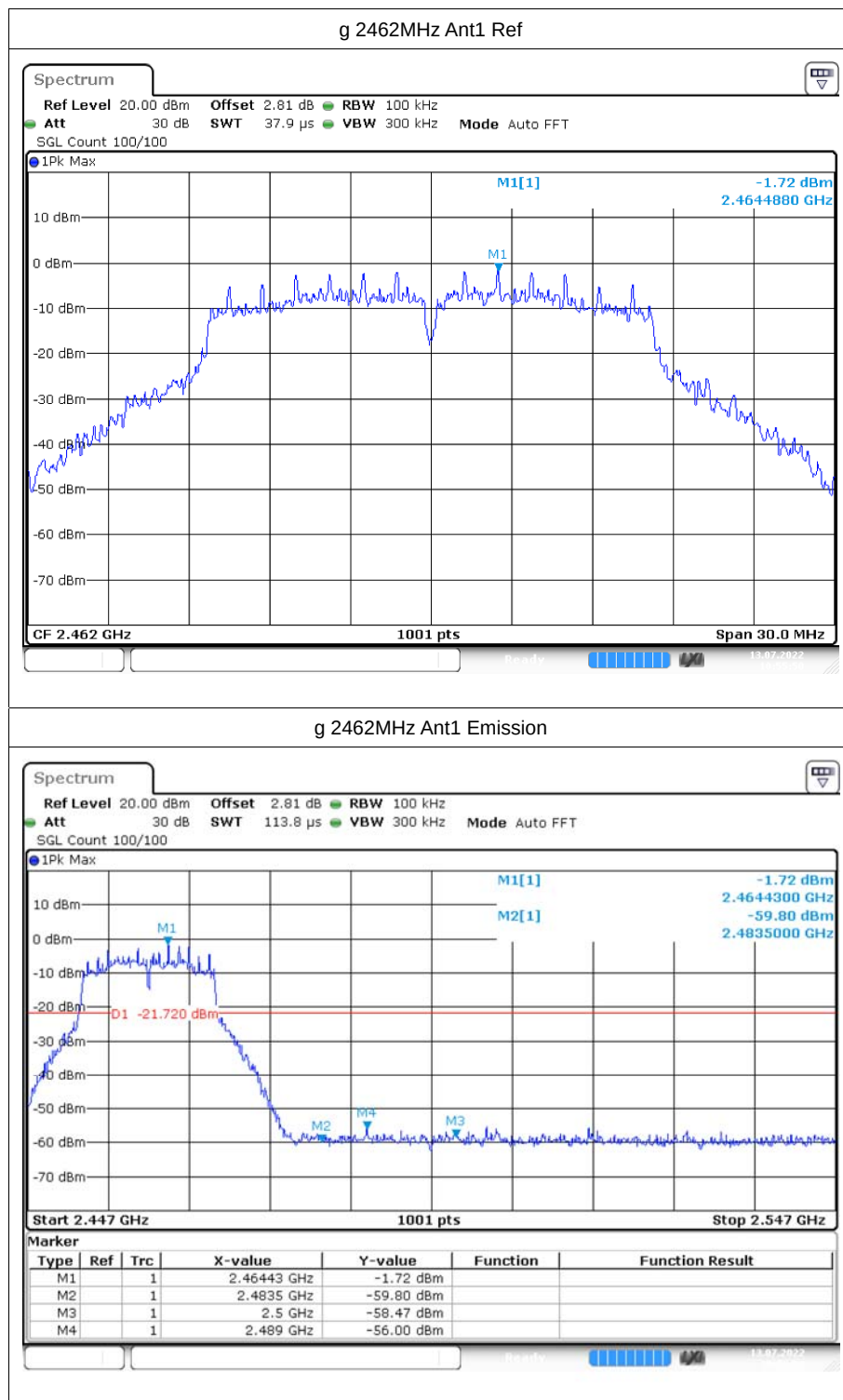
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-55.33	-20	-55.33
b	2462	Ant1	-56.73	-20	Pass
g	2412	Ant1	-53.35	-20	Pass
g	2462	Ant1	-54.28	-20	Pass
n20	2412	Ant1	-52.85	-20	Pass
n20	2462	Ant1	-54.34	-20	Pass

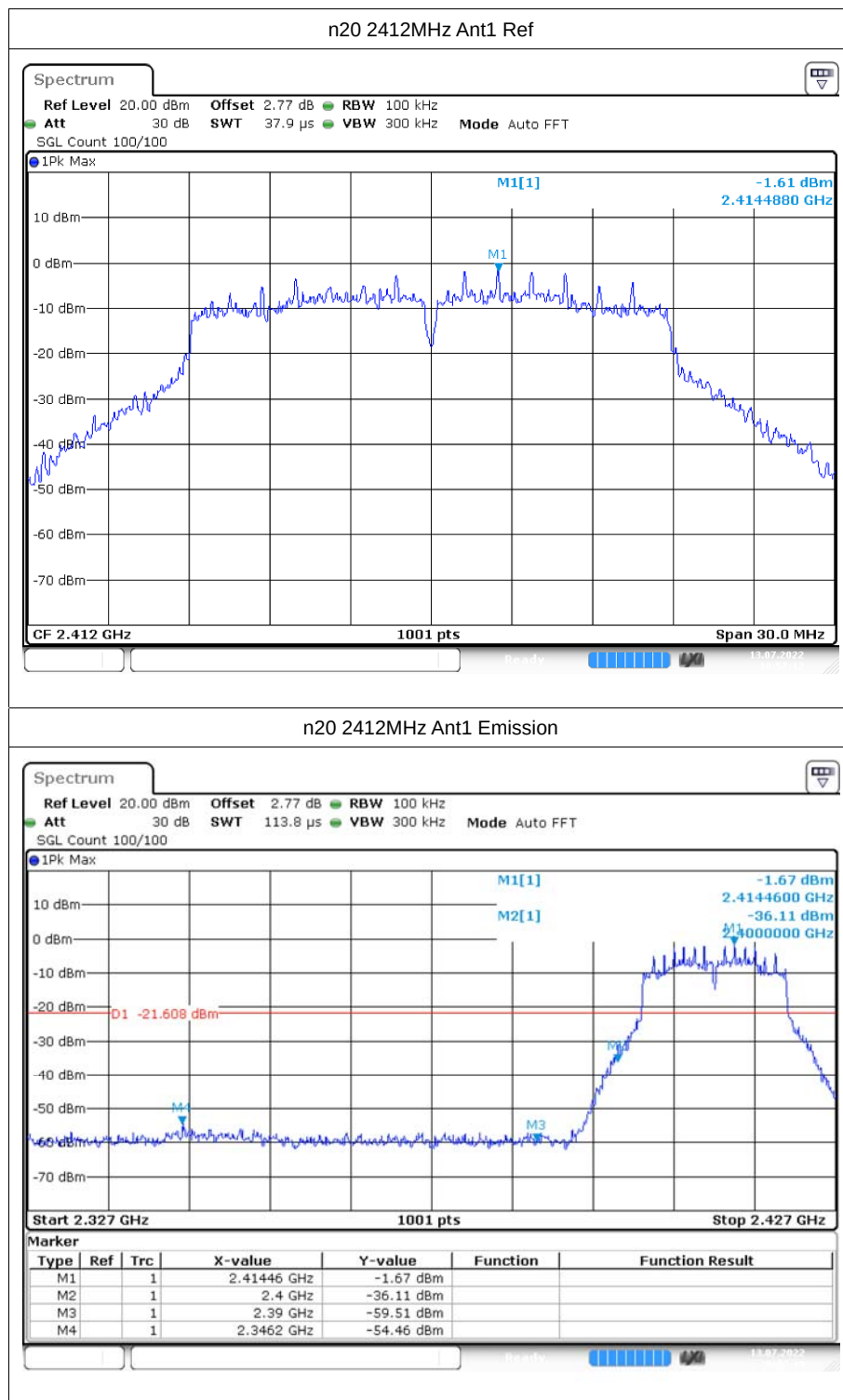
5.2 Test Graphs

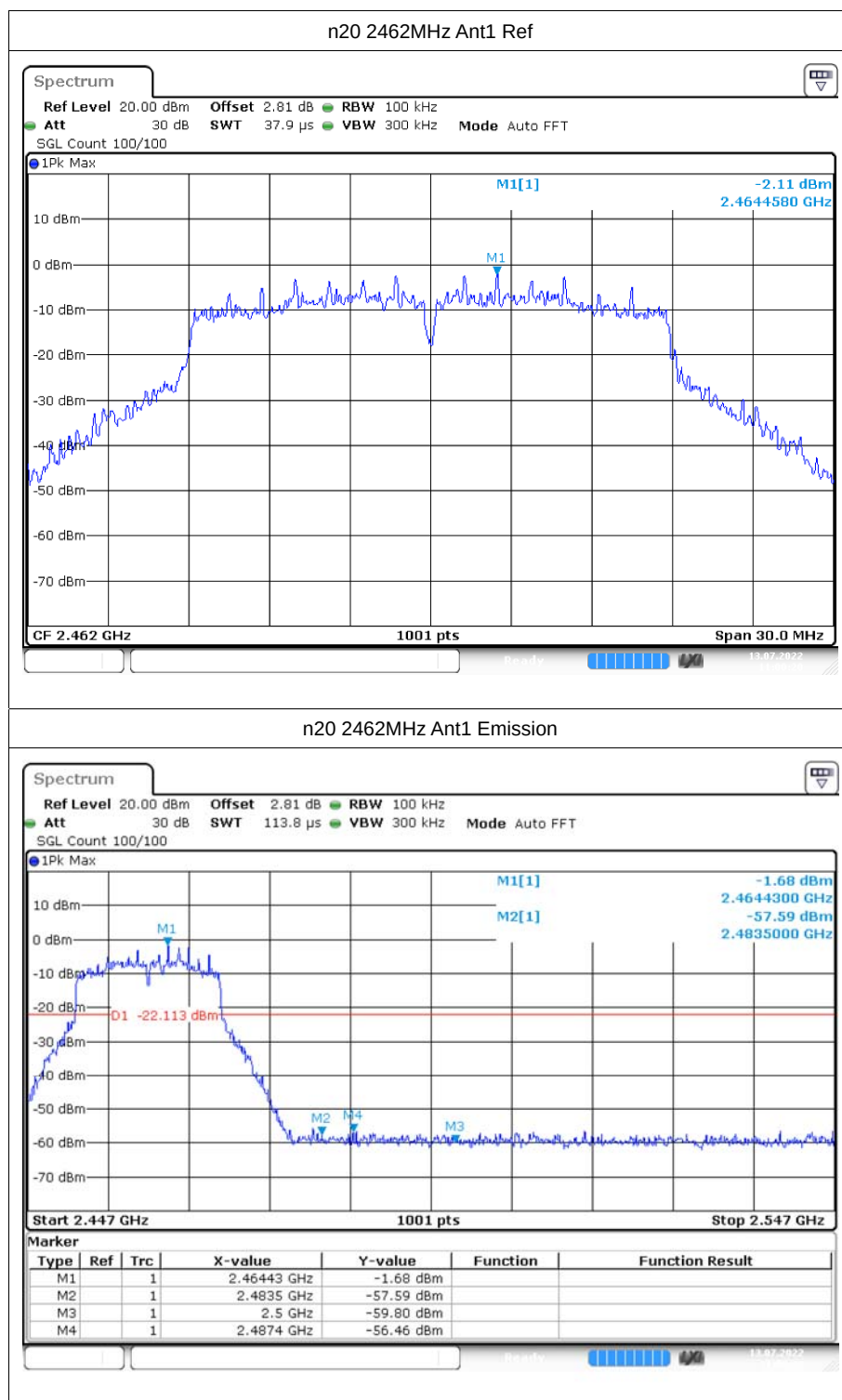












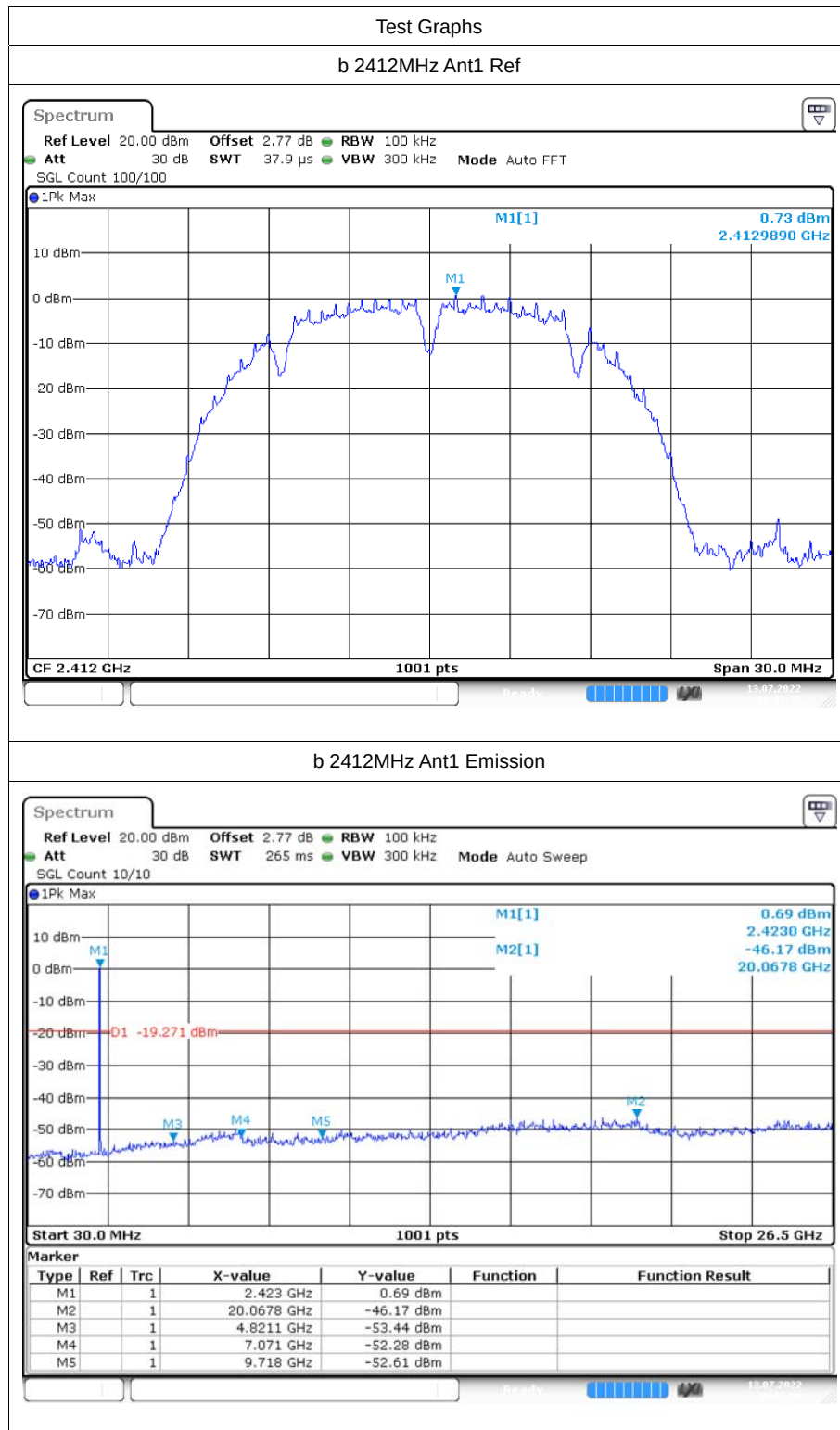


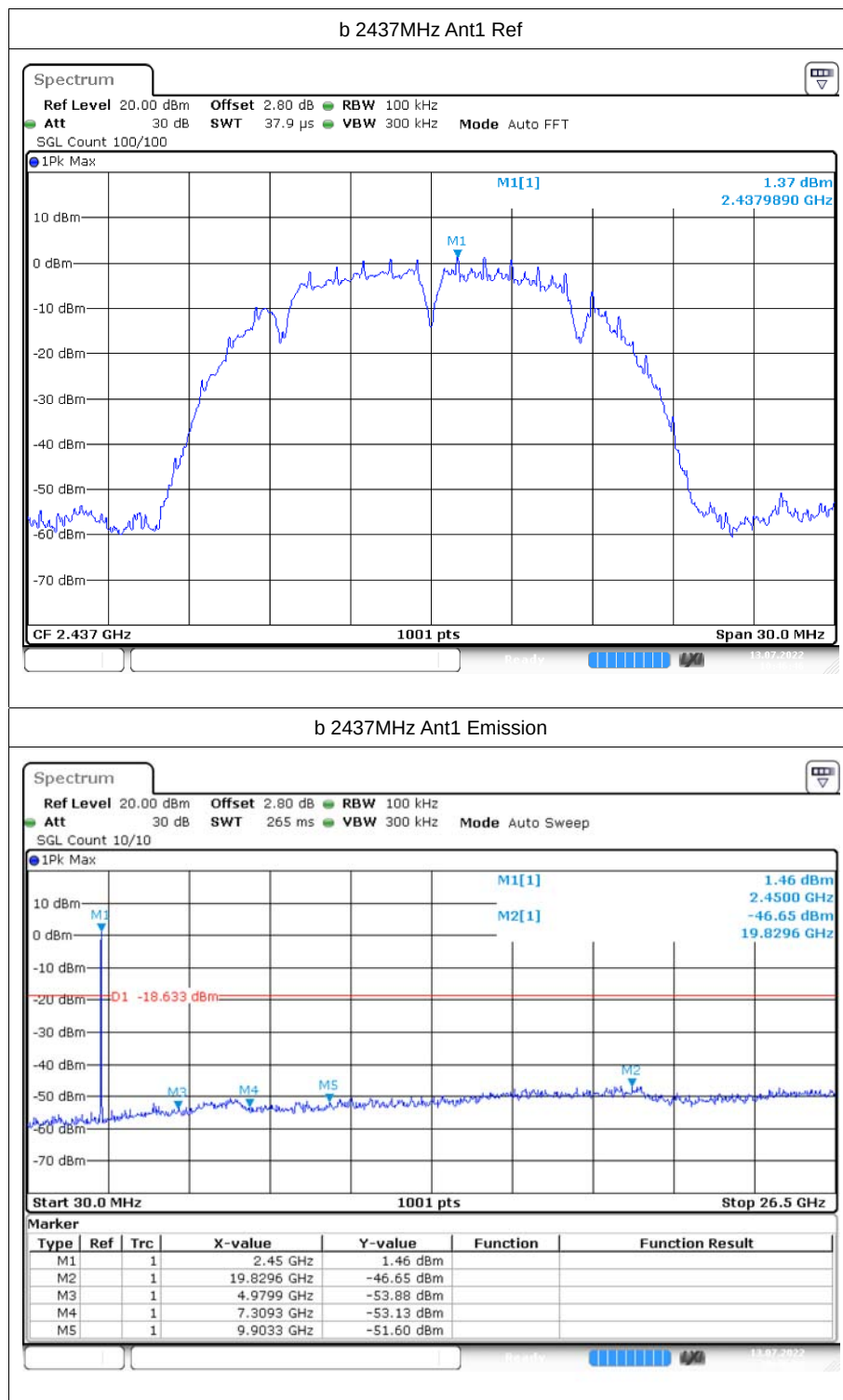
6 Conducted RF Spurious Emission

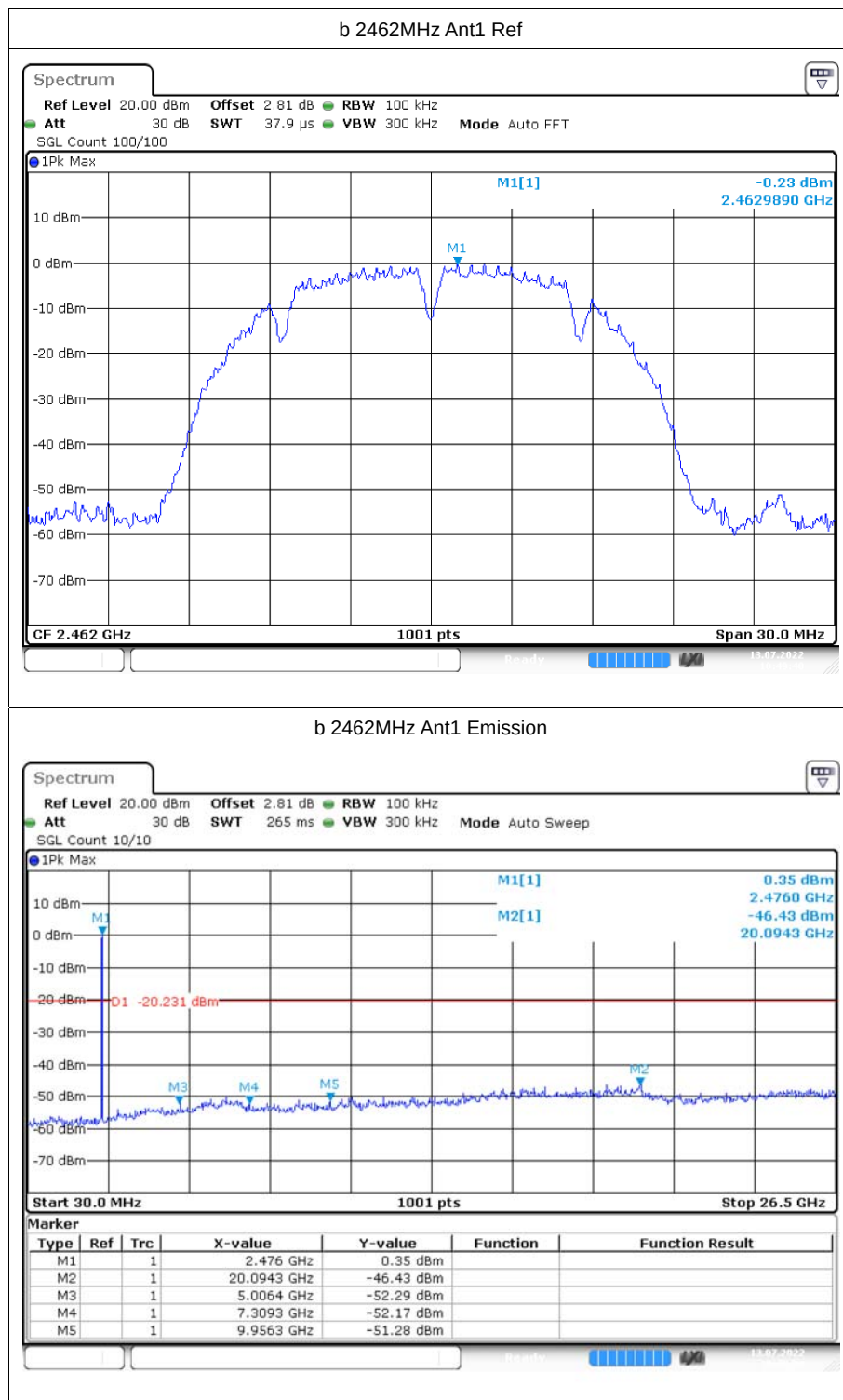
6.1 Test Result

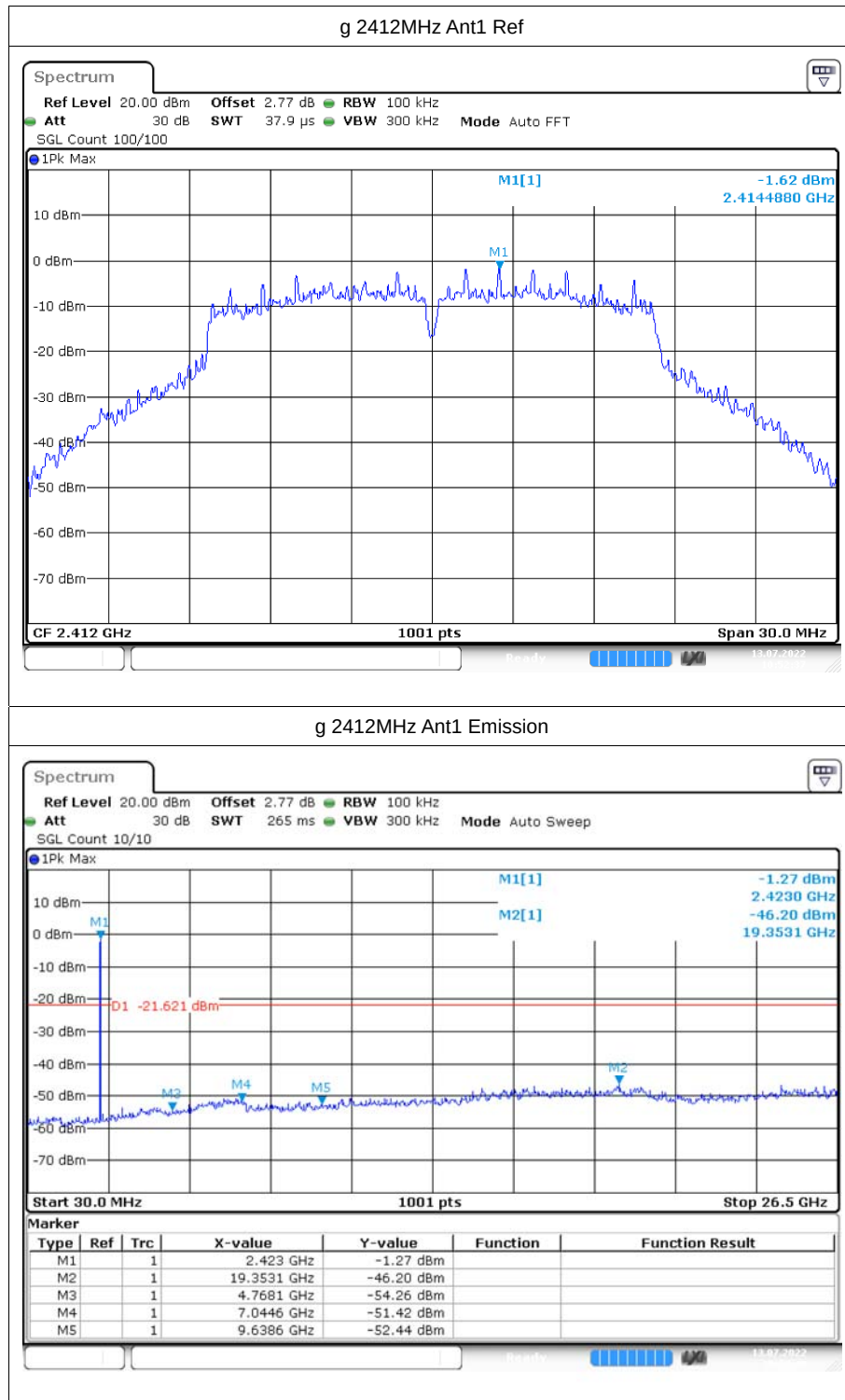
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-46.9	-20	Pass
b	2437	Ant1	-48.02	-20	Pass
b	2462	Ant1	-46.19	-20	Pass
g	2412	Ant1	-44.58	-20	Pass
g	2437	Ant1	-44.52	-20	Pass
g	2462	Ant1	-45.21	-20	Pass
n20	2412	Ant1	-44.77	-20	Pass
n20	2437	Ant1	-44.68	-20	Pass
n20	2462	Ant1	-43.59	-20	Pass

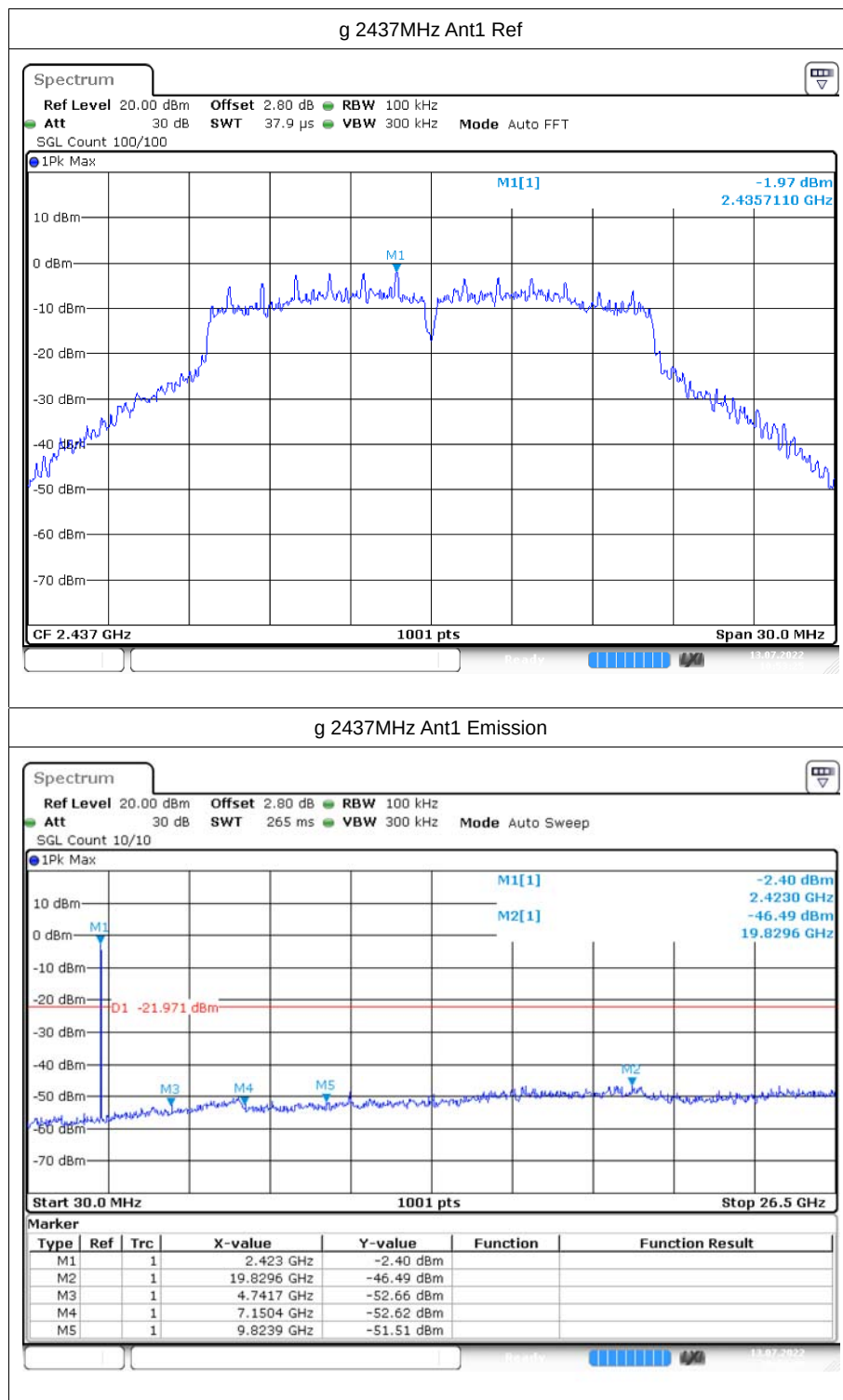
6.2 Test Graphs

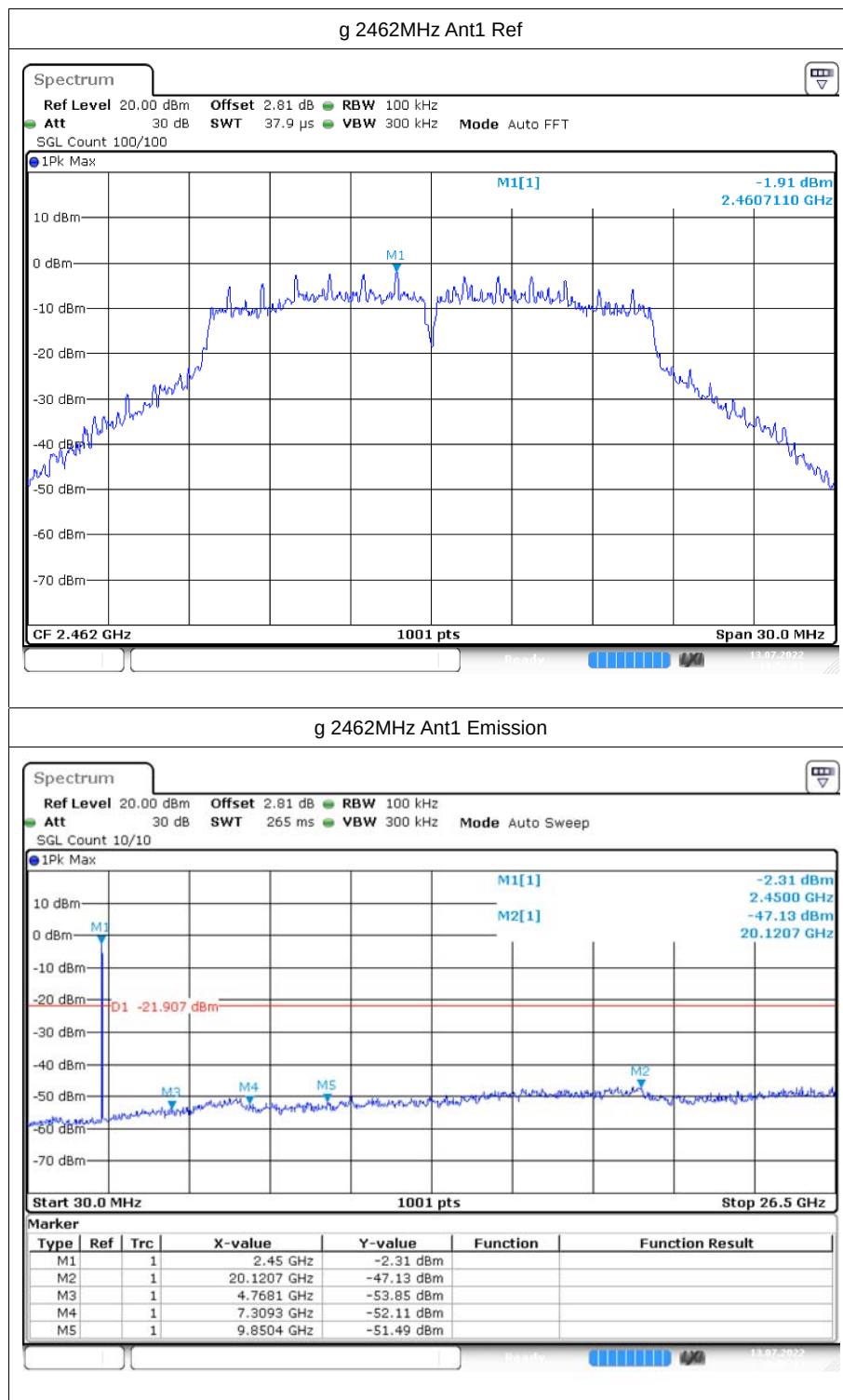


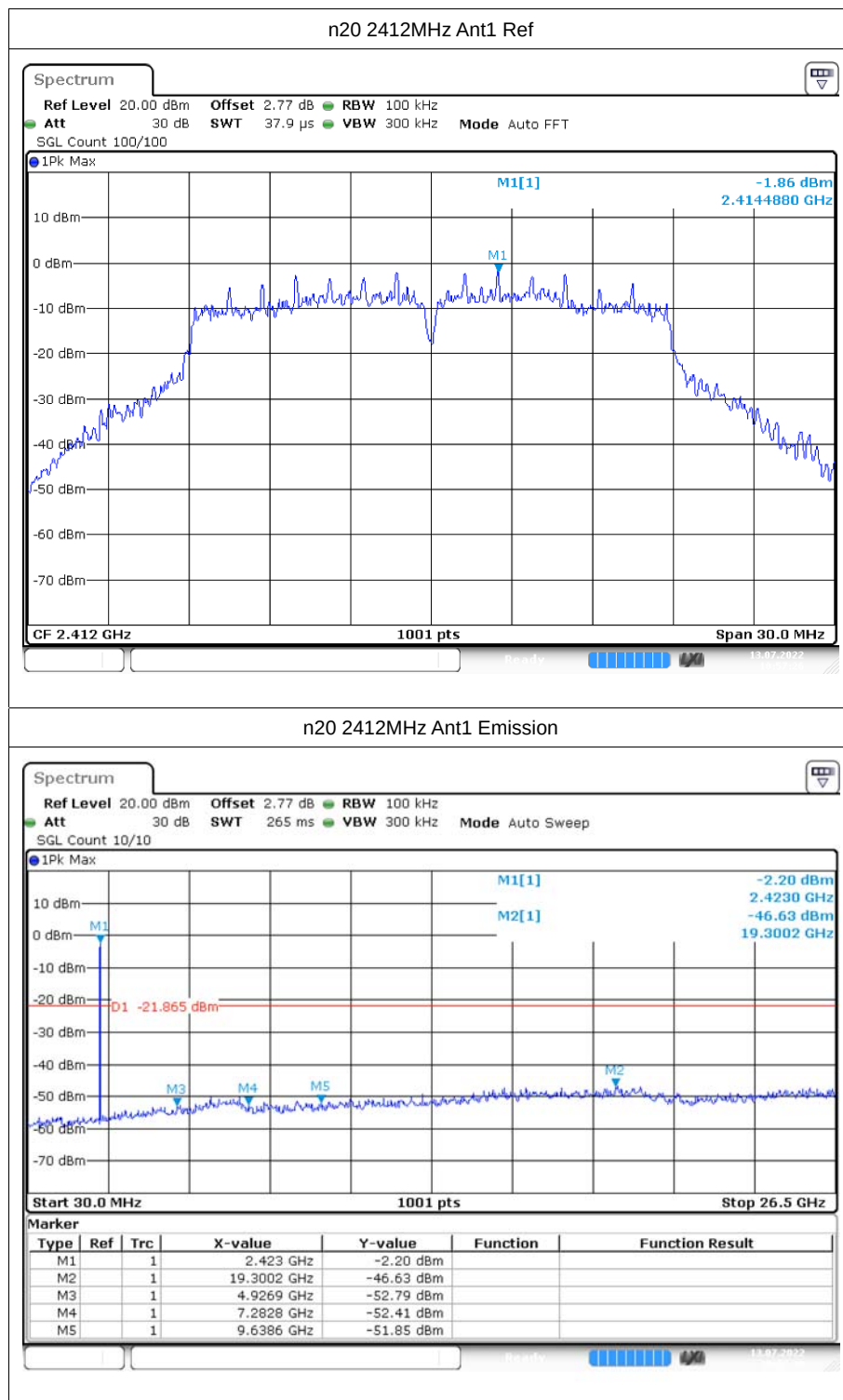


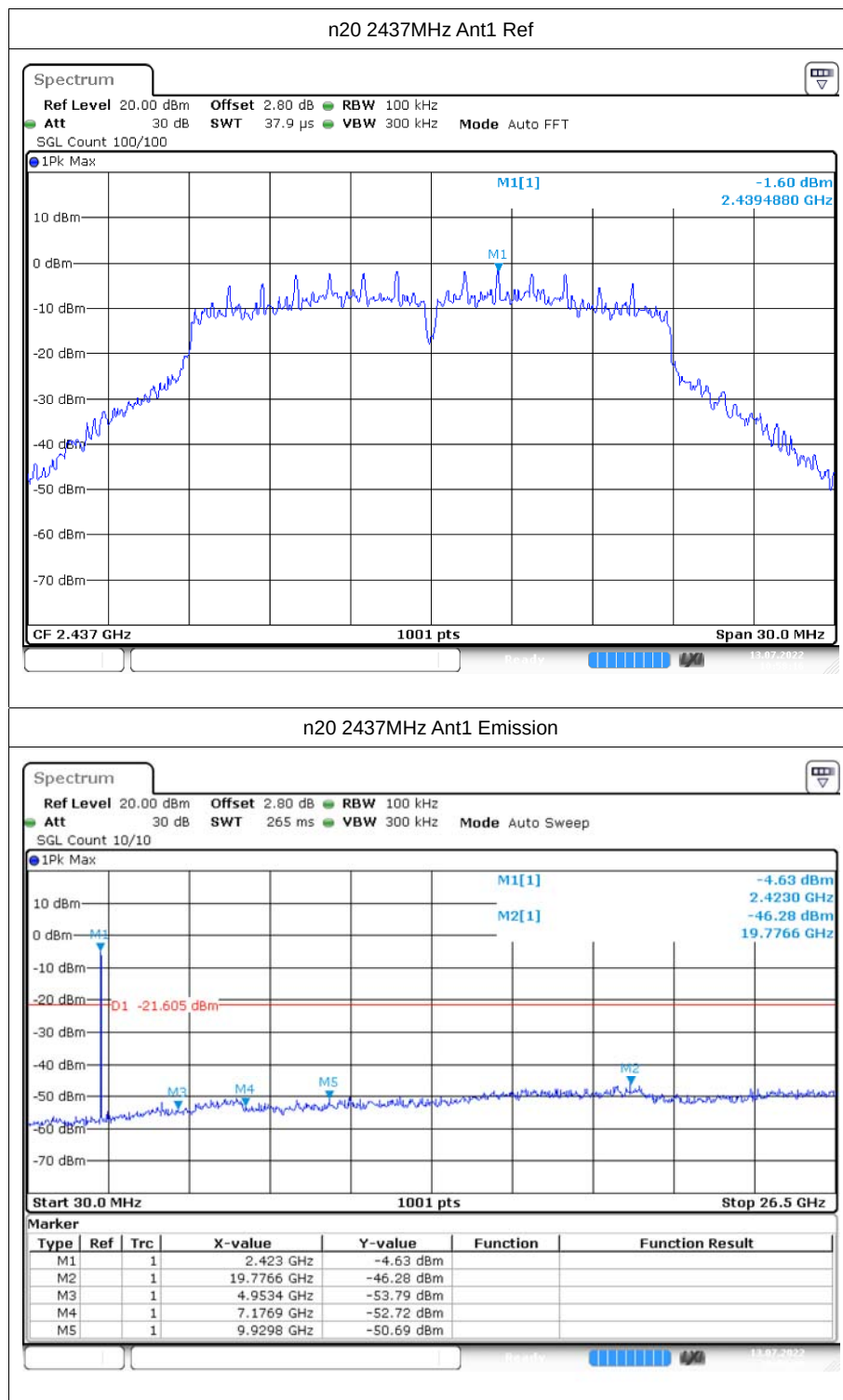


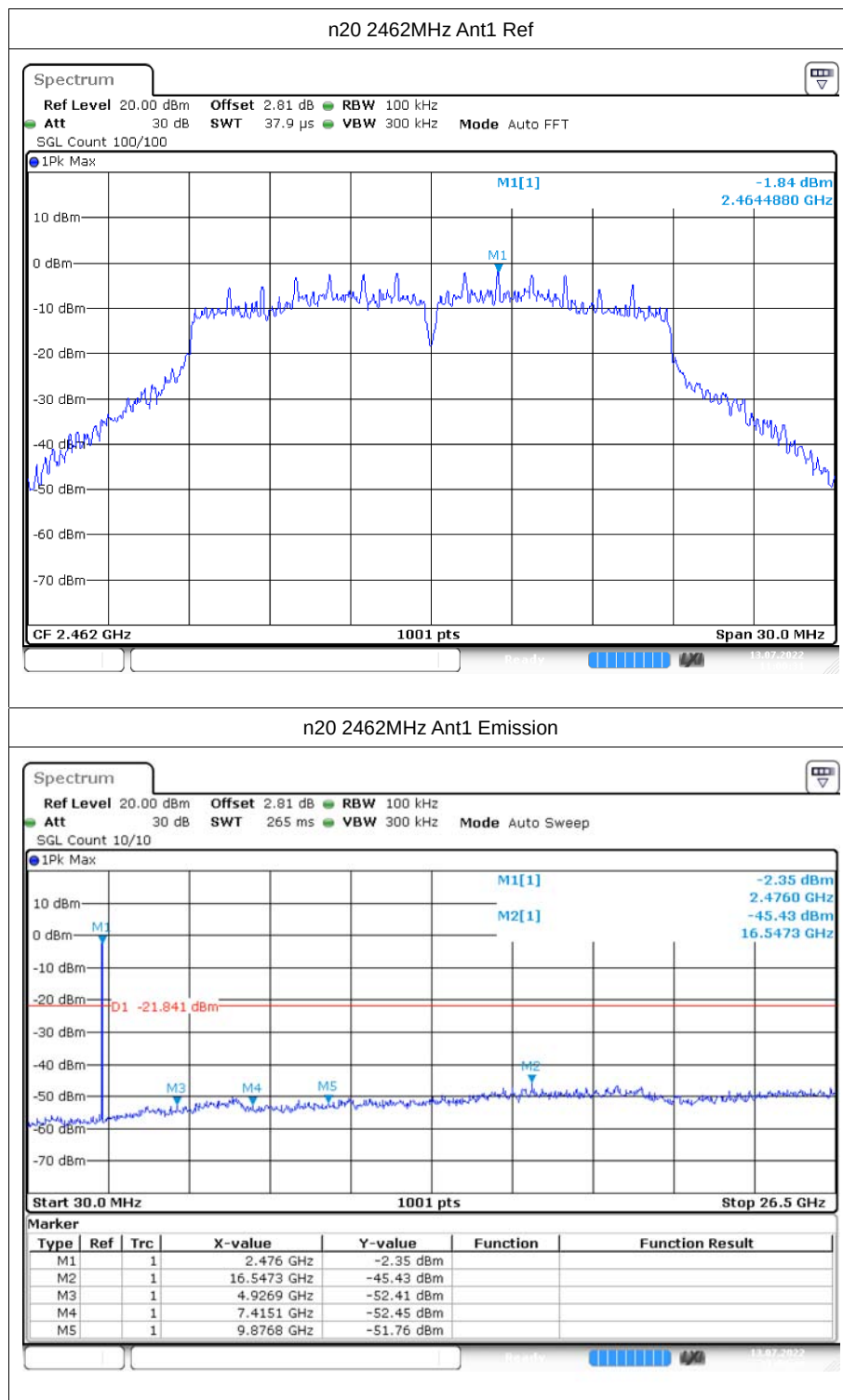














7 Restrict Band

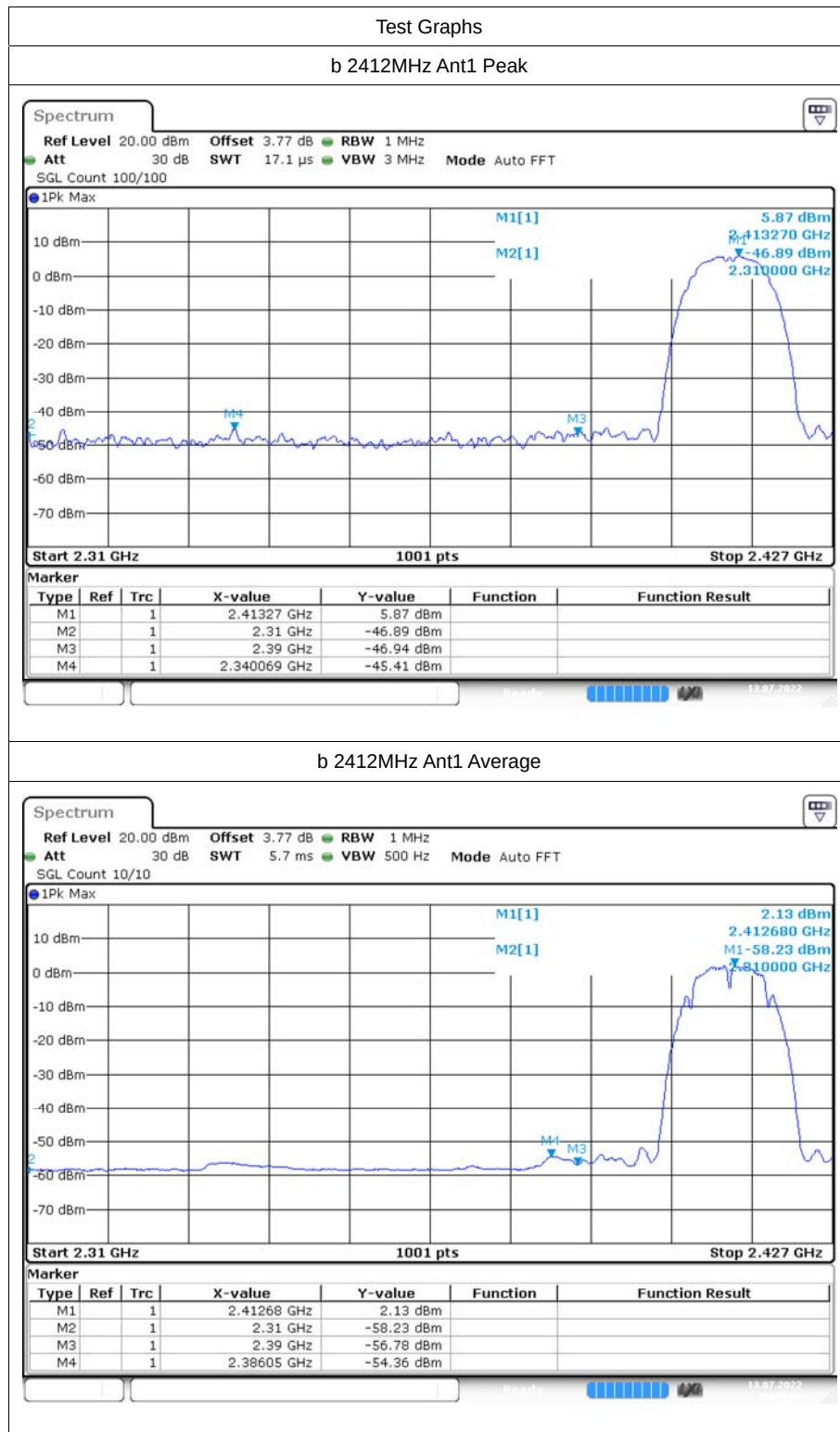
7.1 Test Result

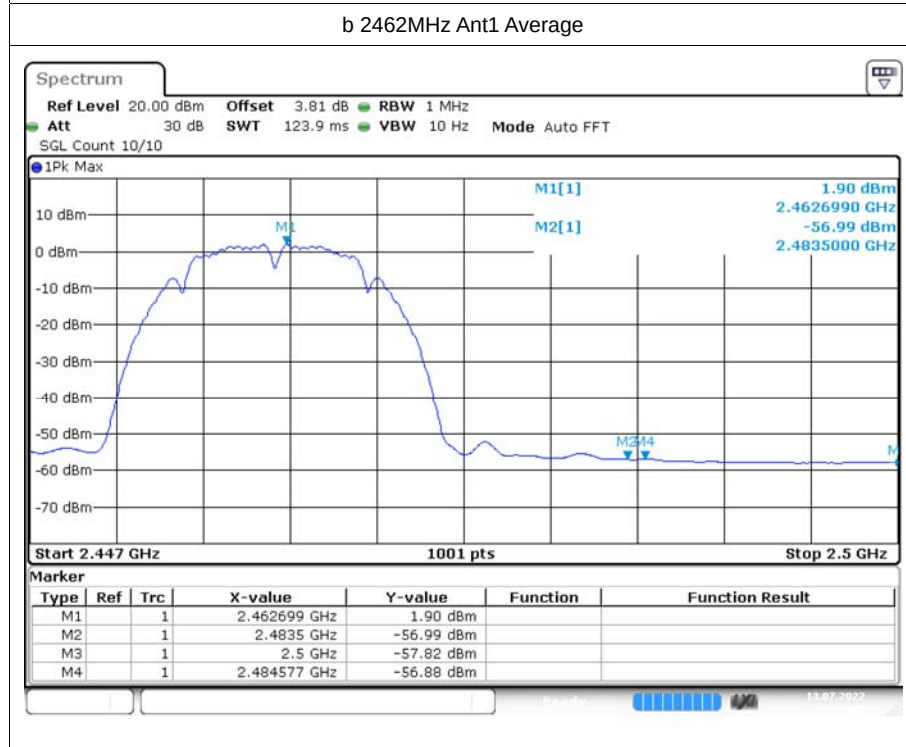
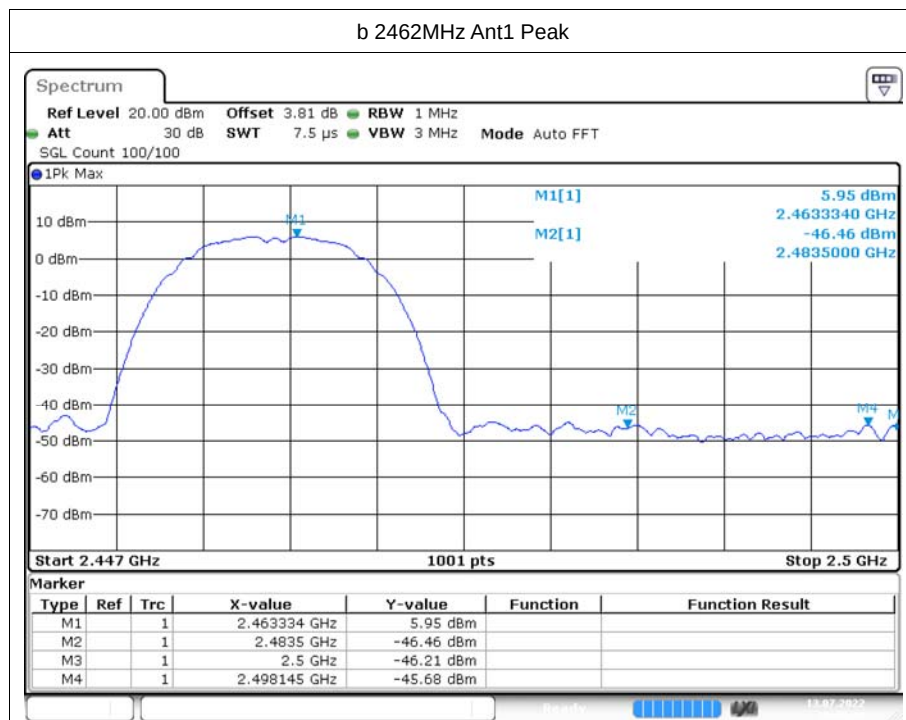
Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
b	2412	Ant1	2310	-46.88	2	50.38	Peak	74	Pass
b	2412	Ant1	2310	-58.22	2	39.04	Average	54	Pass
b	2412	Ant1	2340.069	-45.4	2	51.86	Peak	74	Pass
b	2412	Ant1	2386.05	-54.35	2	42.91	Average	54	Pass
b	2412	Ant1	2390	-46.93	2	50.33	Peak	74	Pass
b	2412	Ant1	2390	-56.78	2	40.48	Average	54	Pass
b	2462	Ant1	2483.5	-46.46	2	50.8	Peak	74	50.8
b	2462	Ant1	2483.5	-56.98	2	40.28	Average	54	Pass
b	2462	Ant1	2498.145	-45.67	2	51.59	Peak	74	Pass
b	2462	Ant1	2484.577	-56.87	2	40.39	Average	54	Pass
b	2462	Ant1	2500	-46.21	2	51.05	Peak	74	Pass
b	2462	Ant1	2500	-57.81	2	39.45	Average	54	Pass
g	2412	Ant1	2310	-47.18	2	50.08	Peak	74	Pass
g	2412	Ant1	2310	-56.78	2	40.48	Average	54	Pass
g	2412	Ant1	2340.771	-44.2	2	53.06	Peak	74	Pass
g	2412	Ant1	2337.261	-54.98	2	42.28	Average	54	Pass
g	2412	Ant1	2390	-48.06	2	50.33	Peak	74	Pass
g	2412	Ant1	2390	-57.26	2	40	Average	54	Pass
g	2462	Ant1	2483.5	-48.5	2	48.76	Peak	74	Pass
g	2462	Ant1	2483.5	-56.73	2	40.53	Average	54	Pass
g	2462	Ant1	2498.145	-46.71	2	50.55	Peak	74	Pass
g	2462	Ant1	2488.393	-55.87	2	41.39	Average	54	Pass
g	2462	Ant1	2500	-49.14	2	51.05	Peak	74	Pass
g	2462	Ant1	2500	-56.77	2	40.49	Average	54	Pass
n20	2412	Ant1	2310	-45.73	2	51.53	Peak	74	Pass
n20	2412	Ant1	2310	-56.93	2	40.33	Average	54	Pass
n20	2412	Ant1	2336.91	-44.94	2	52.32	Peak	74	Pass
n20	2412	Ant1	2341.005	-54.57	2	42.69	Average	54	Pass
n20	2412	Ant1	2390	-48.3	2	48.96	Peak	74	Pass
n20	2412	Ant1	2390	-56.88	2	40.38	Average	54	Pass
n20	2462	Ant1	2483.5	-49.23	2	48.03	Peak	74	Pass
n20	2462	Ant1	2483.5	-56.11	2	41.15	Average	54	Pass
n20	2462	Ant1	2487.492	-47.33	2	49.93	Peak	74	Pass
n20	2462	Ant1	2494.17	-55.88	2	41.38	Average	54	Pass

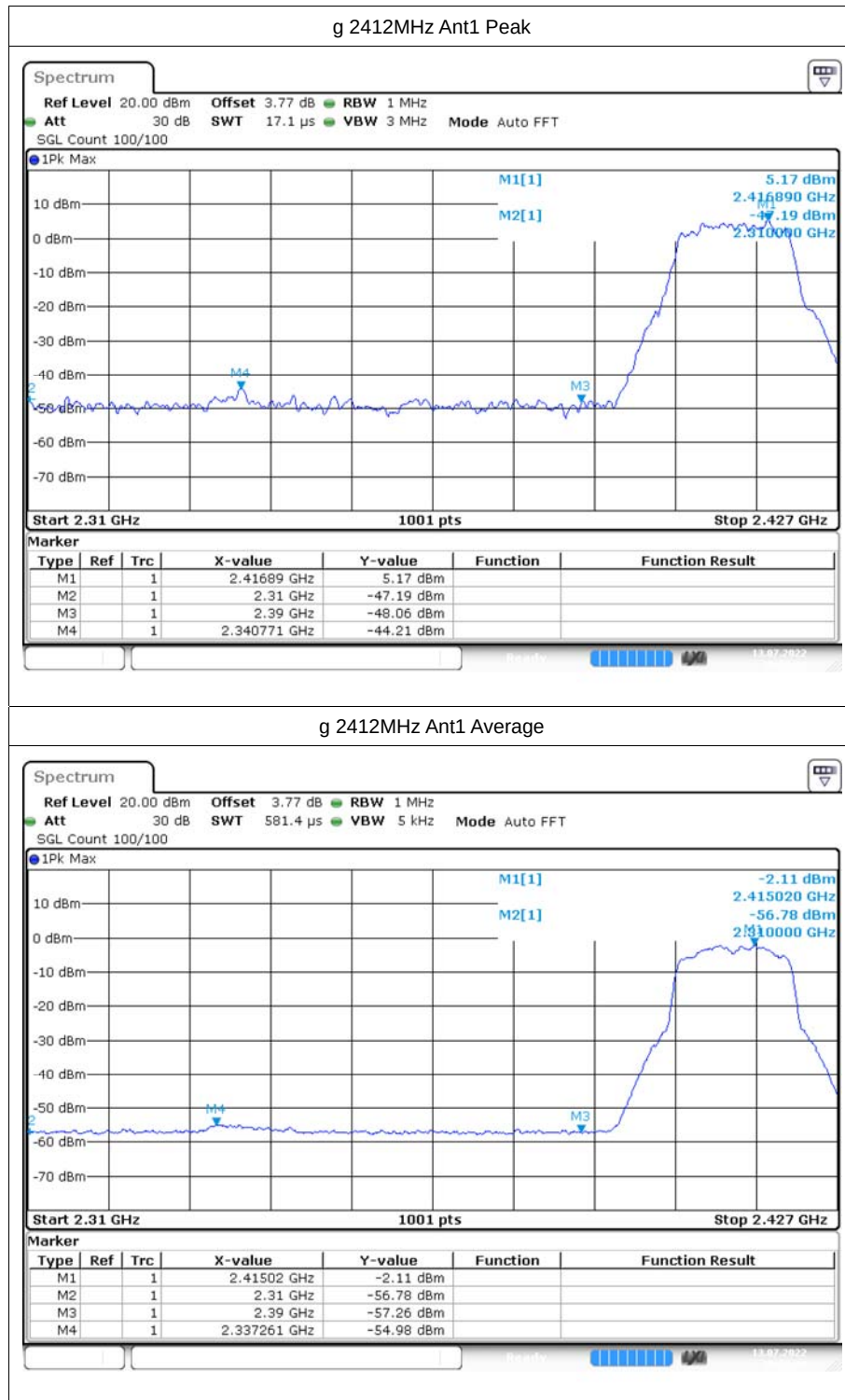


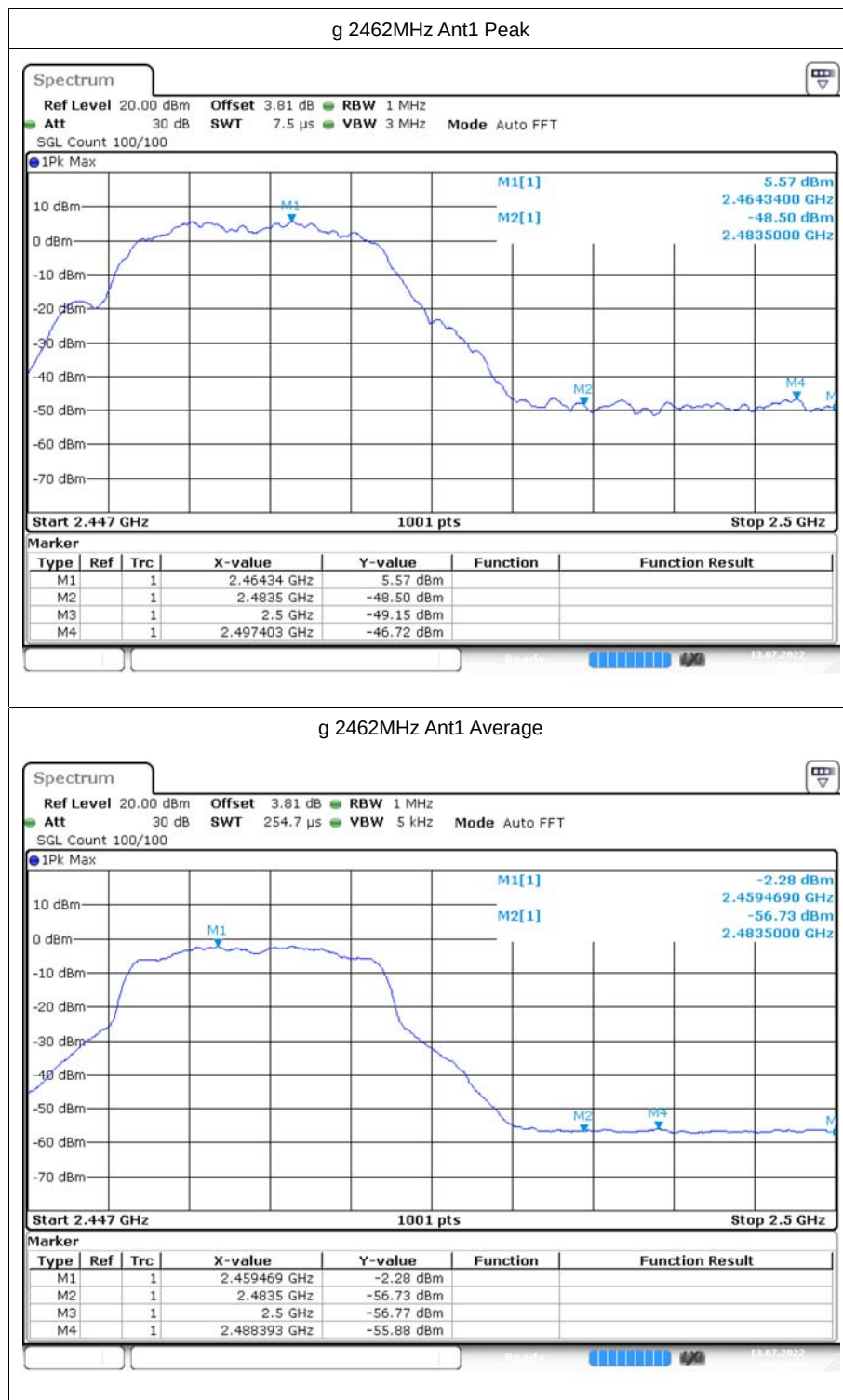
n20	2462	Ant1	2500	-48.92	2	48.34	Peak	74	Pass
n20	2462	Ant1	2500	-56.52	2	40.74	Average	54	Pass

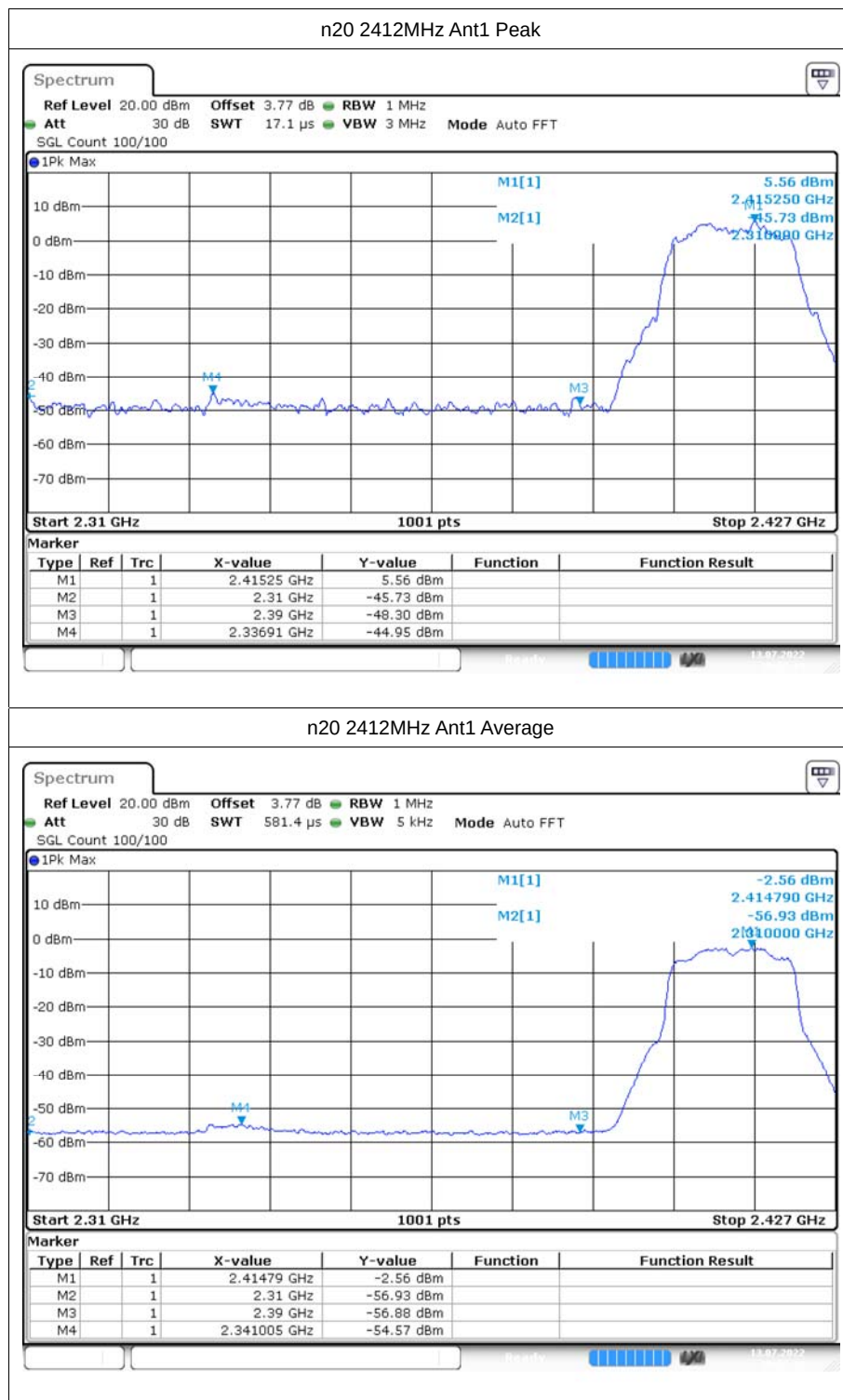
7.2 Test Graphs

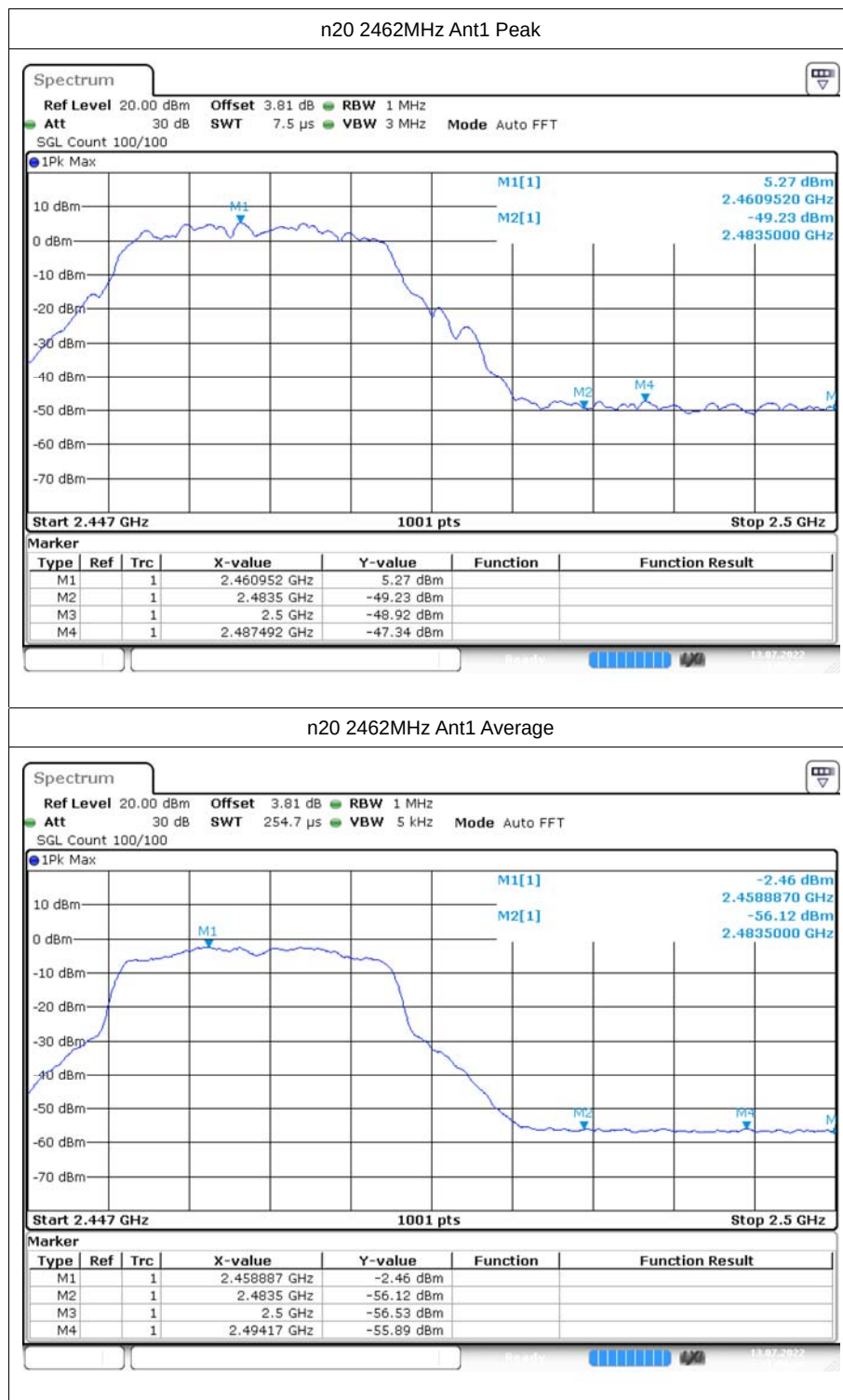












---The End---