



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Automatic 2-in-1 Pet Feeder & Water Dispenser

Trade Mark: N/A

Test Model: A7

Environmental Conditions

Temperature:	25.5° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Simba Huang
Supervised by:	Seal Chen



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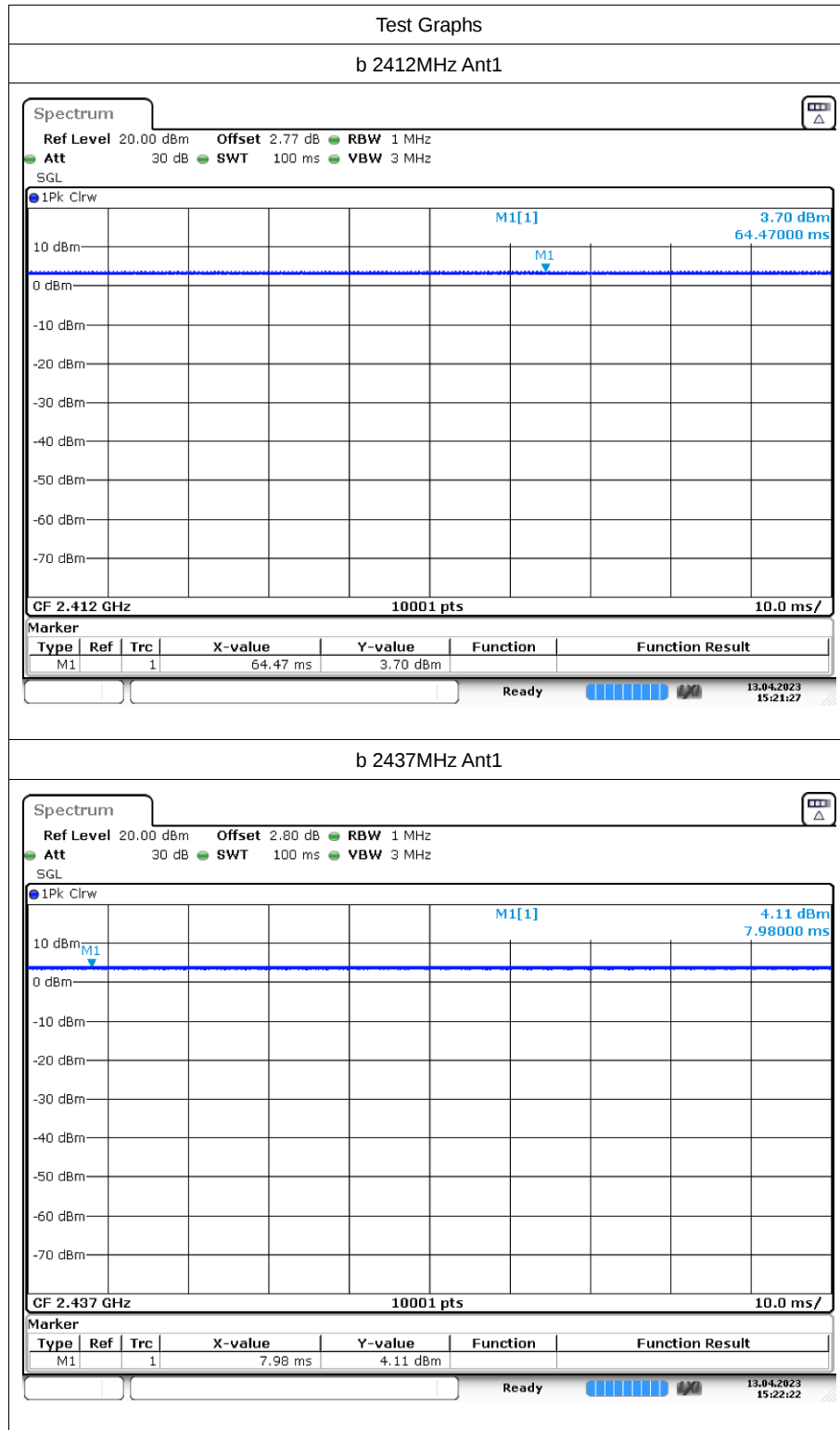


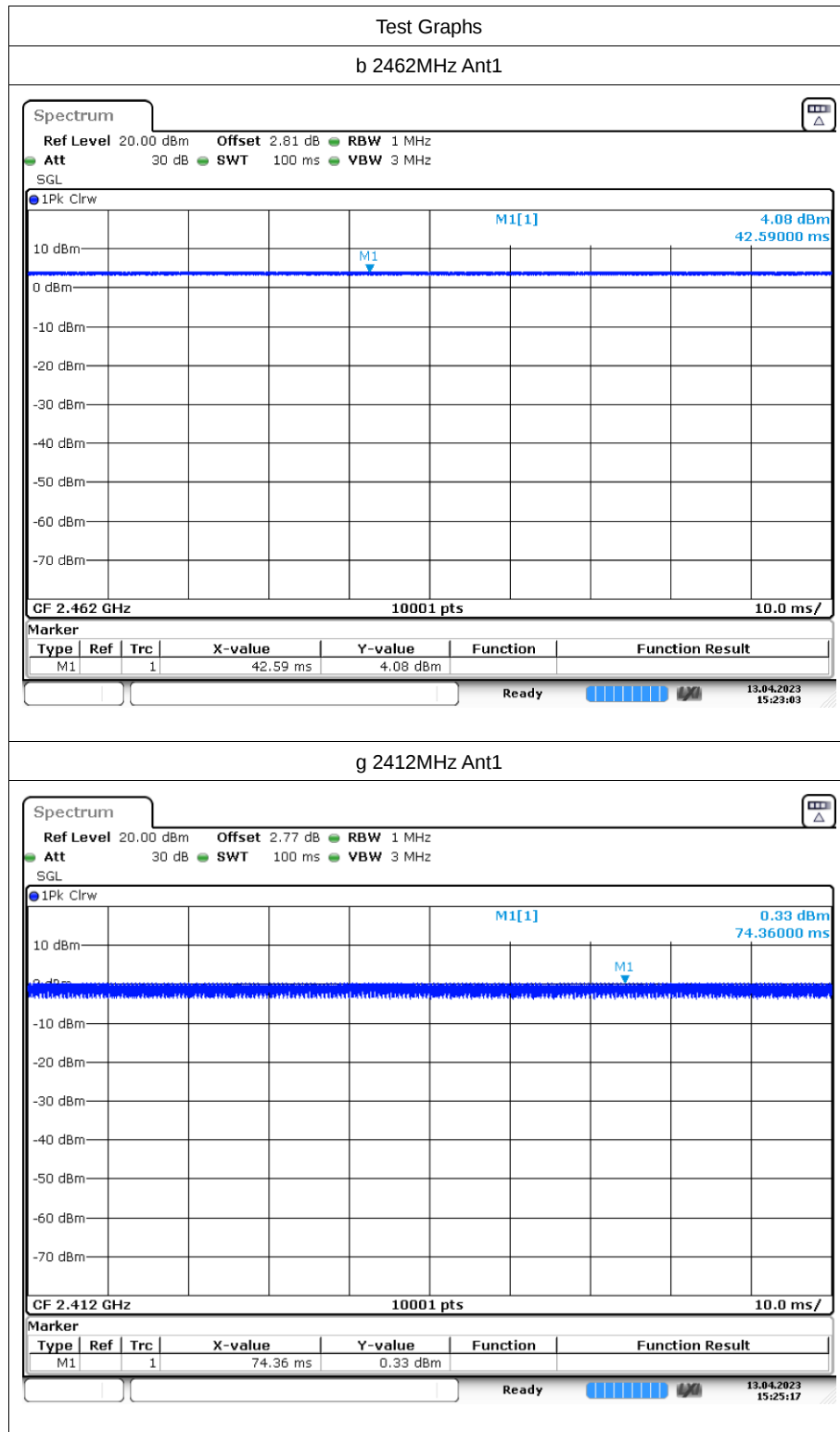
1 Duty Cycle

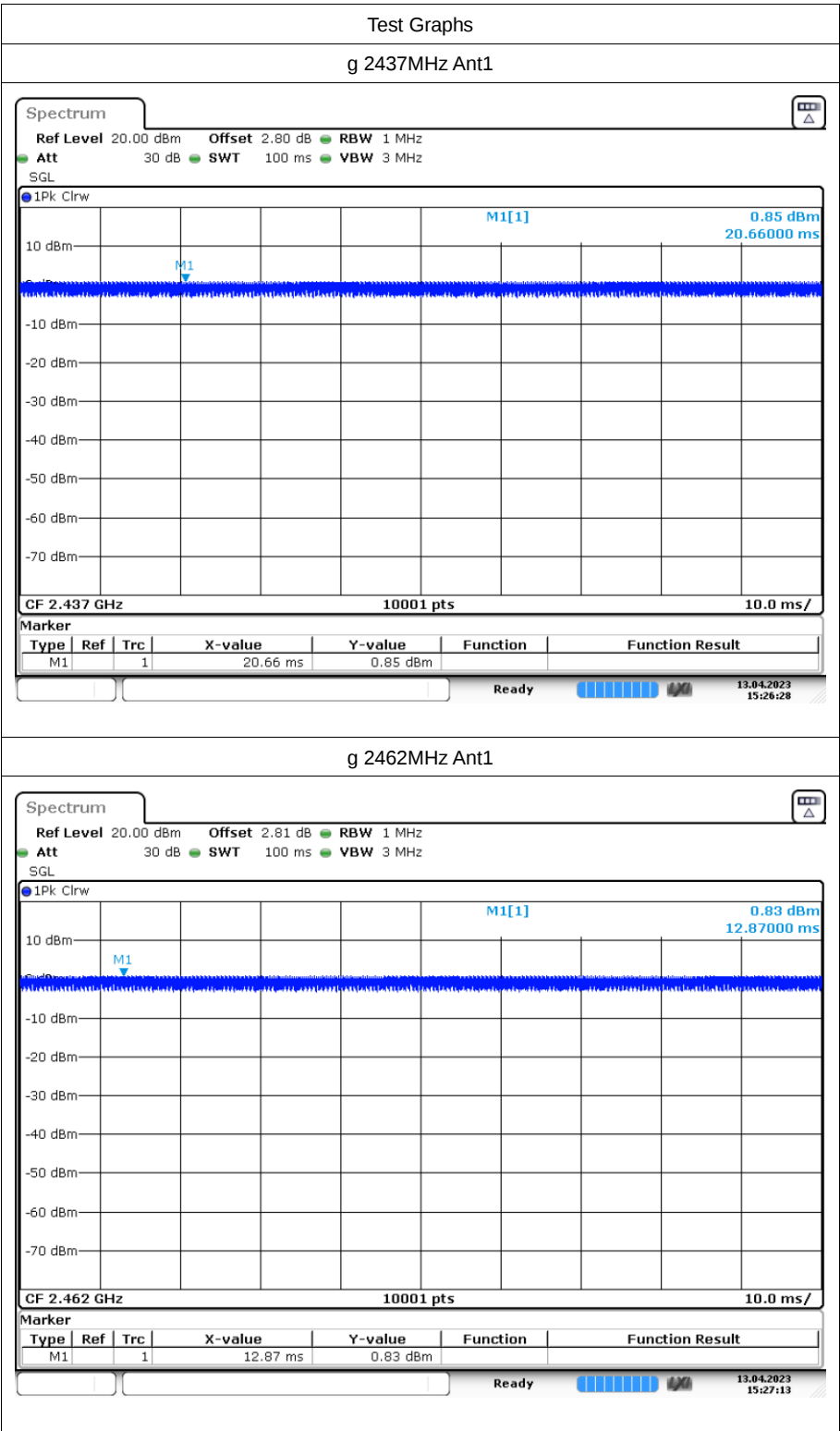
1.1 Test Result

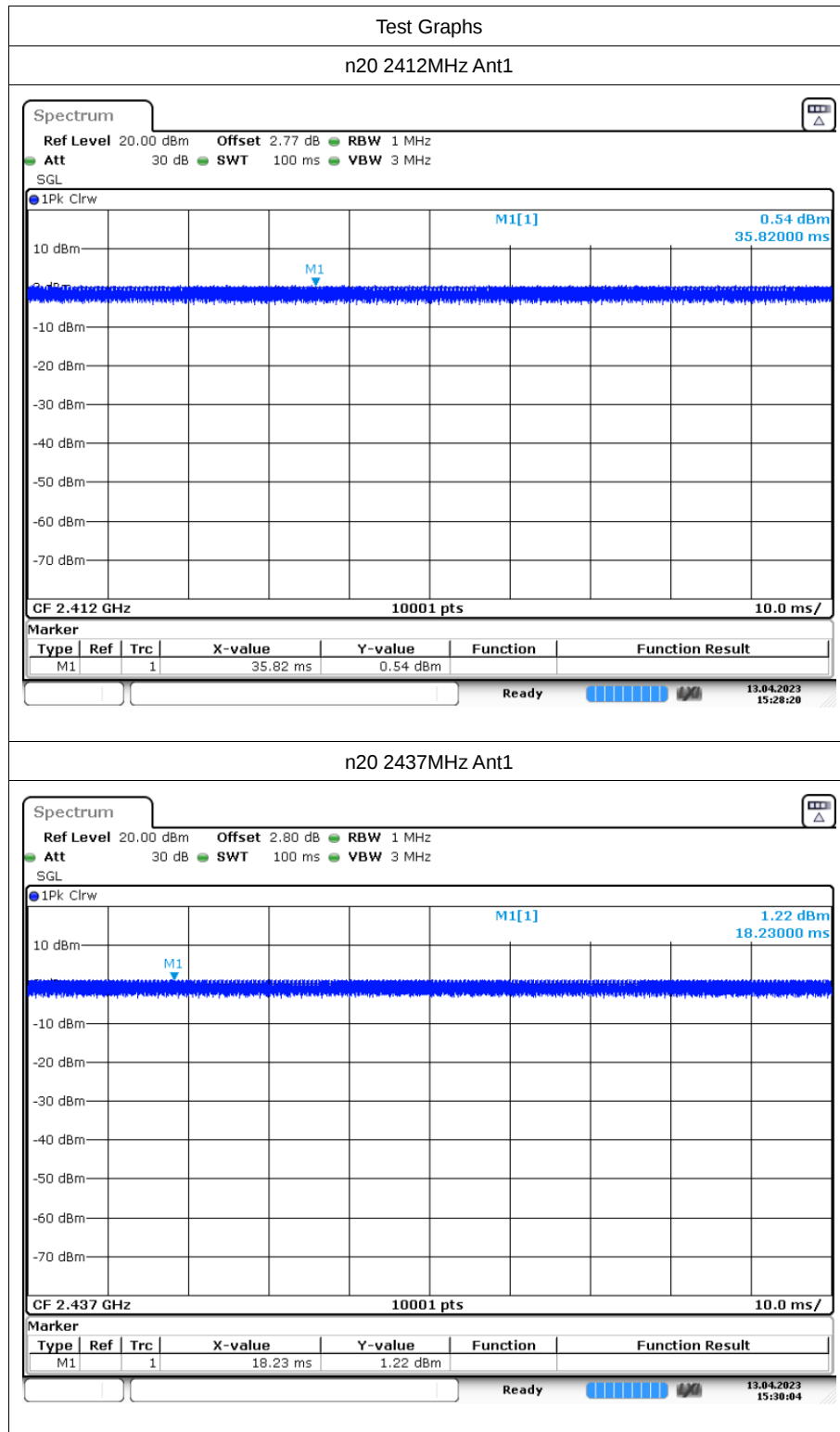
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	1/T (kHz)
b	2412	Ant1	100	0
b	2437	Ant1	100	0
b	2462	Ant1	100	0
g	2412	Ant1	100	0
g	2437	Ant1	100	0
g	2462	Ant1	100	0
n20	2412	Ant1	100	0
n20	2437	Ant1	100	0
n20	2462	Ant1	100	0

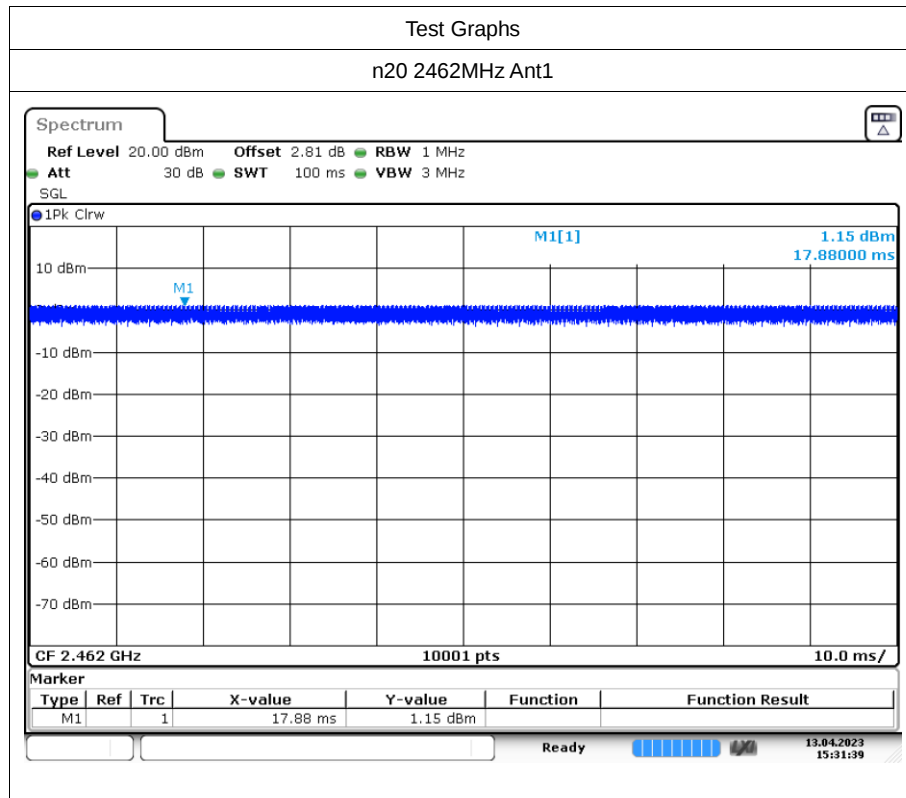
1.2 Test Graphs











2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant1	12.41	30	Pass
b	2437	Ant1	12.78	30	Pass
b	2462	Ant1	12.74	30	Pass
g	2412	Ant1	12.11	30	Pass
g	2437	Ant1	12.55	30	Pass
g	2462	Ant1	12.58	30	Pass
n20	2412	Ant1	11.88	30	Pass
n20	2437	Ant1	12.45	30	Pass
n20	2462	Ant1	12.51	30	Pass

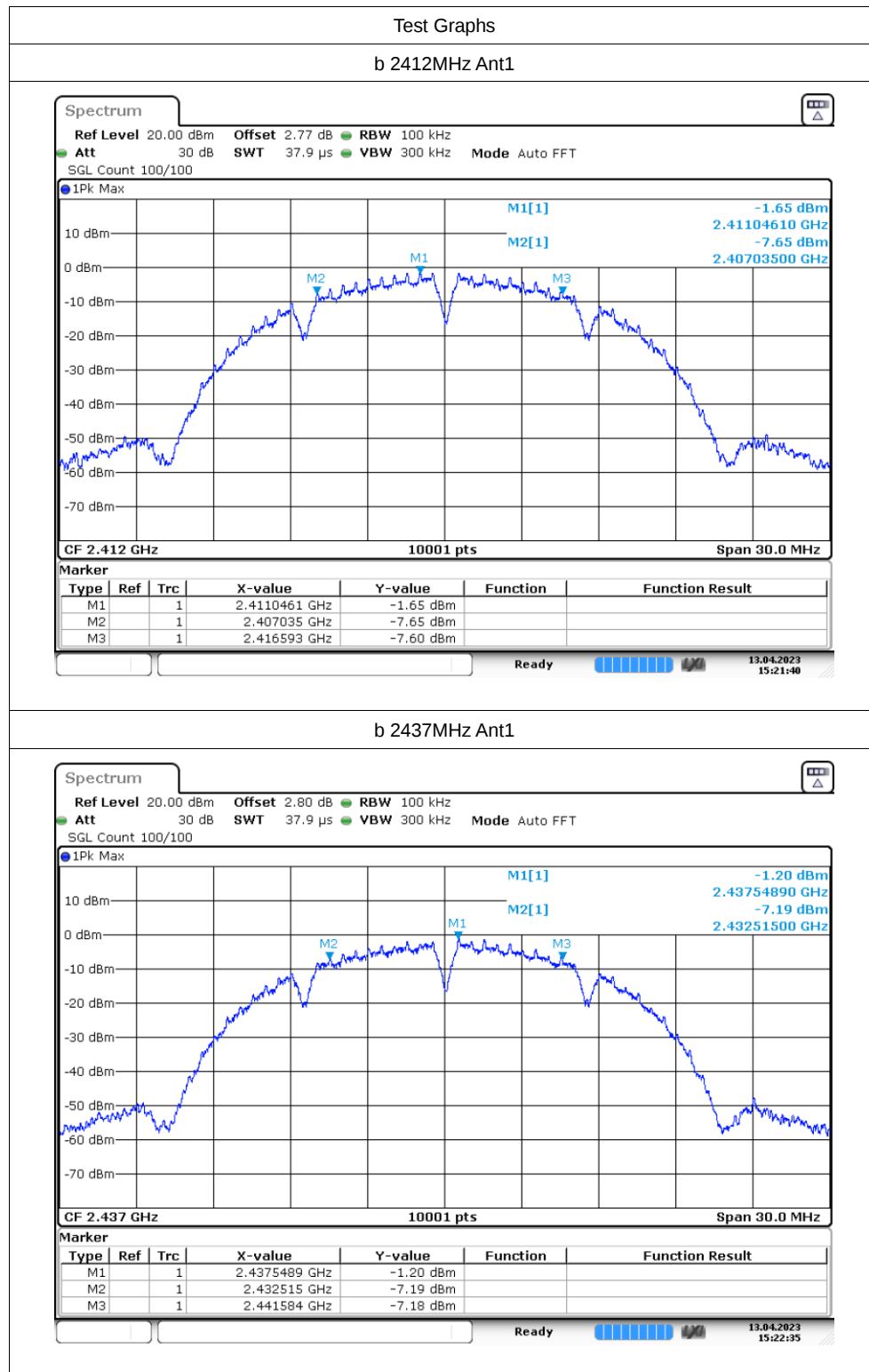


3 -6dB Bandwidth

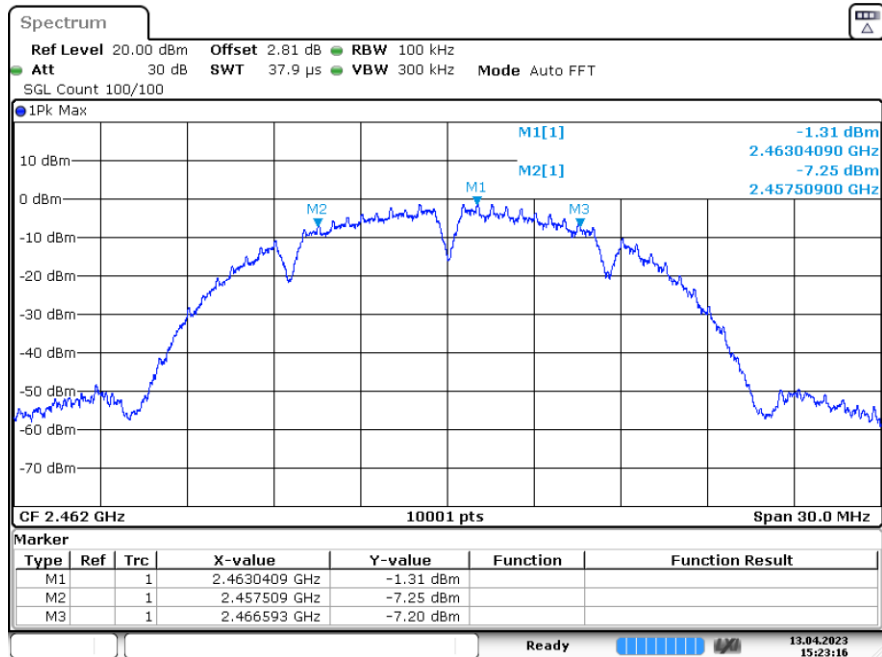
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	9.558	0.5	Pass
b	2437	Ant1	9.069	0.5	Pass
b	2462	Ant1	9.084	0.5	Pass
g	2412	Ant1	16.551	0.5	Pass
g	2437	Ant1	16.464	0.5	Pass
g	2462	Ant1	16.533	0.5	Pass
n20	2412	Ant1	17.646	0.5	Pass
n20	2437	Ant1	17.784	0.5	Pass
n20	2462	Ant1	17.79	0.5	Pass

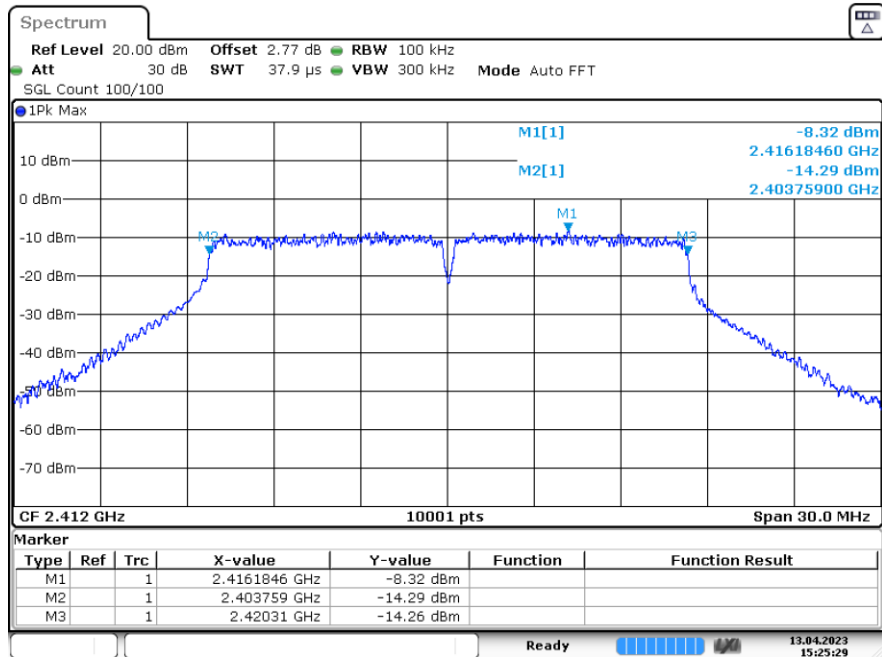
3.2 Test Graphs

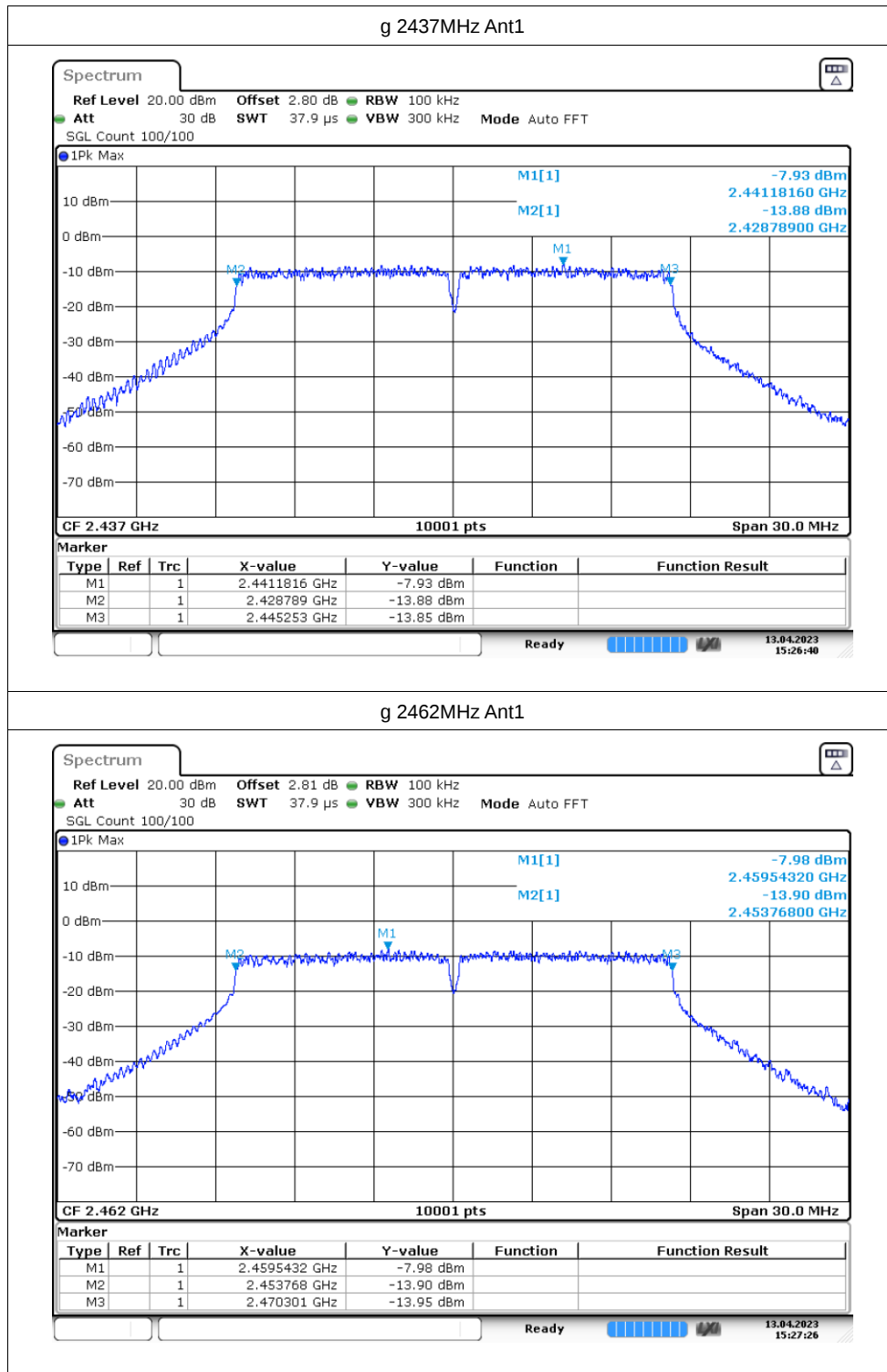


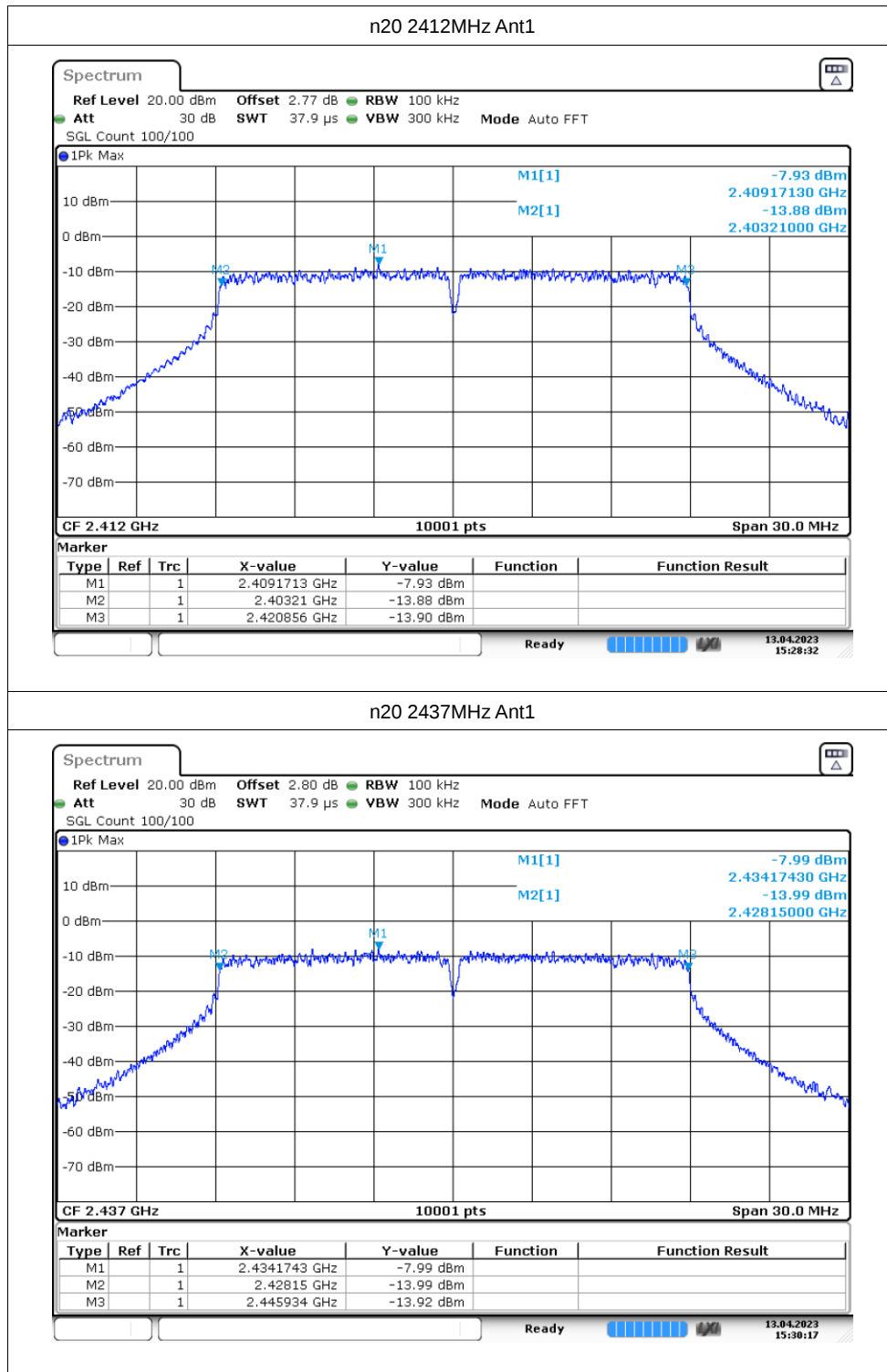
b 2462MHz Ant1

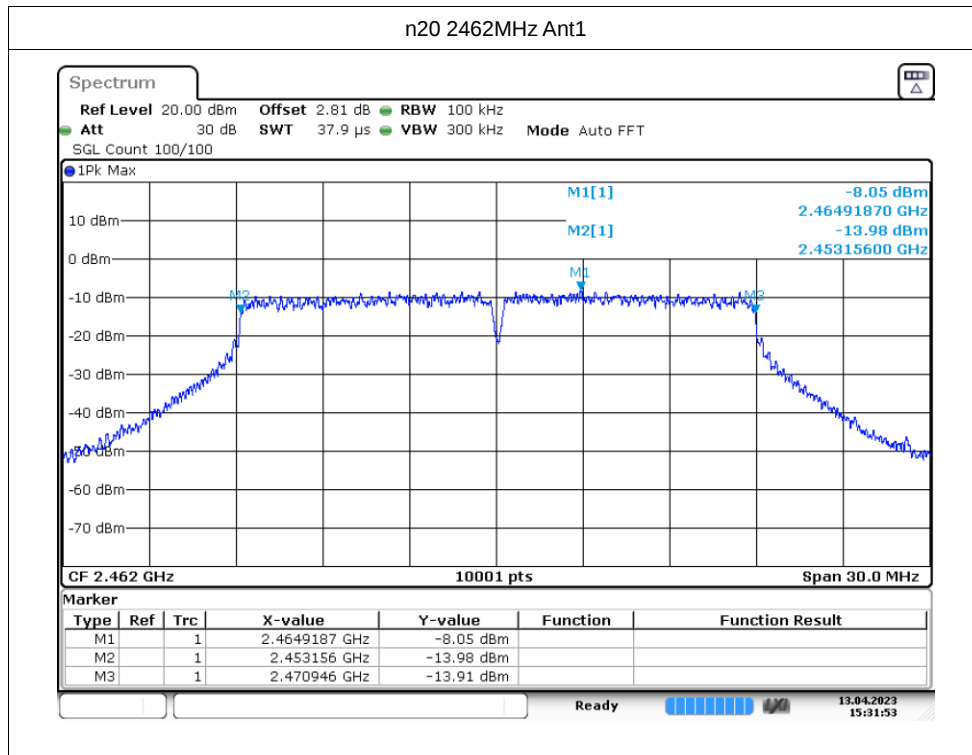


g 2412MHz Ant1







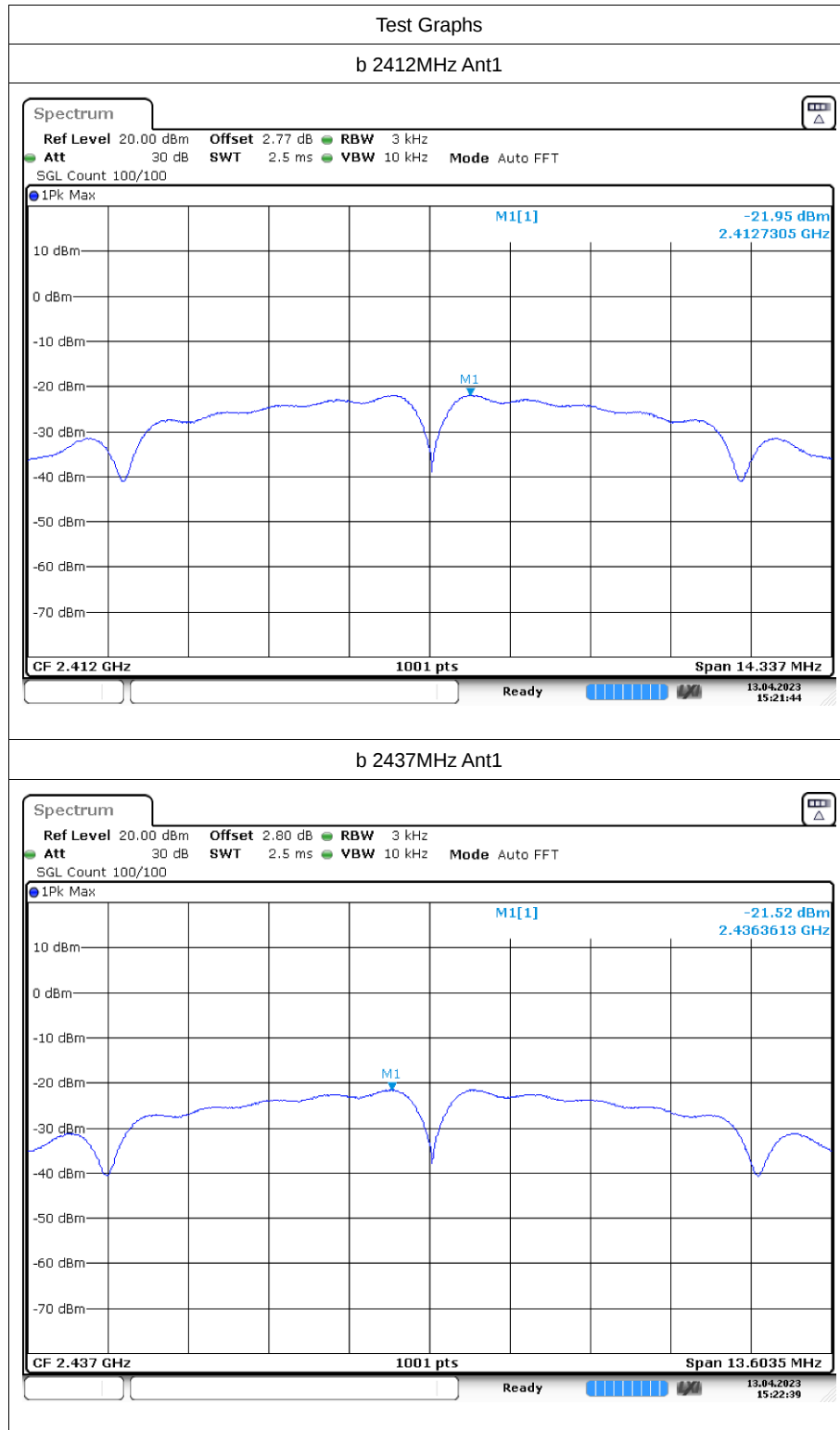


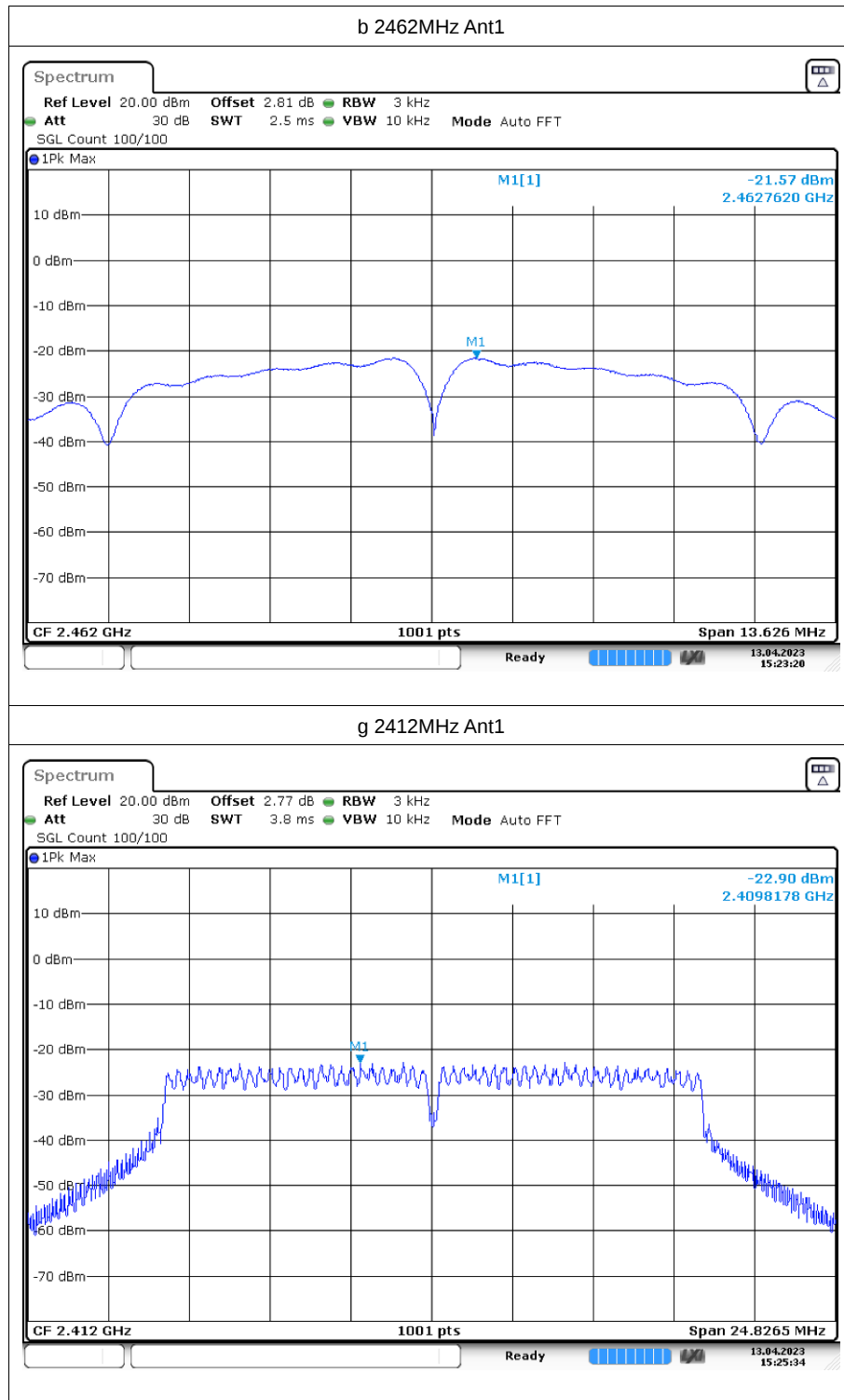
4 Maximum Power Spectral Density Level

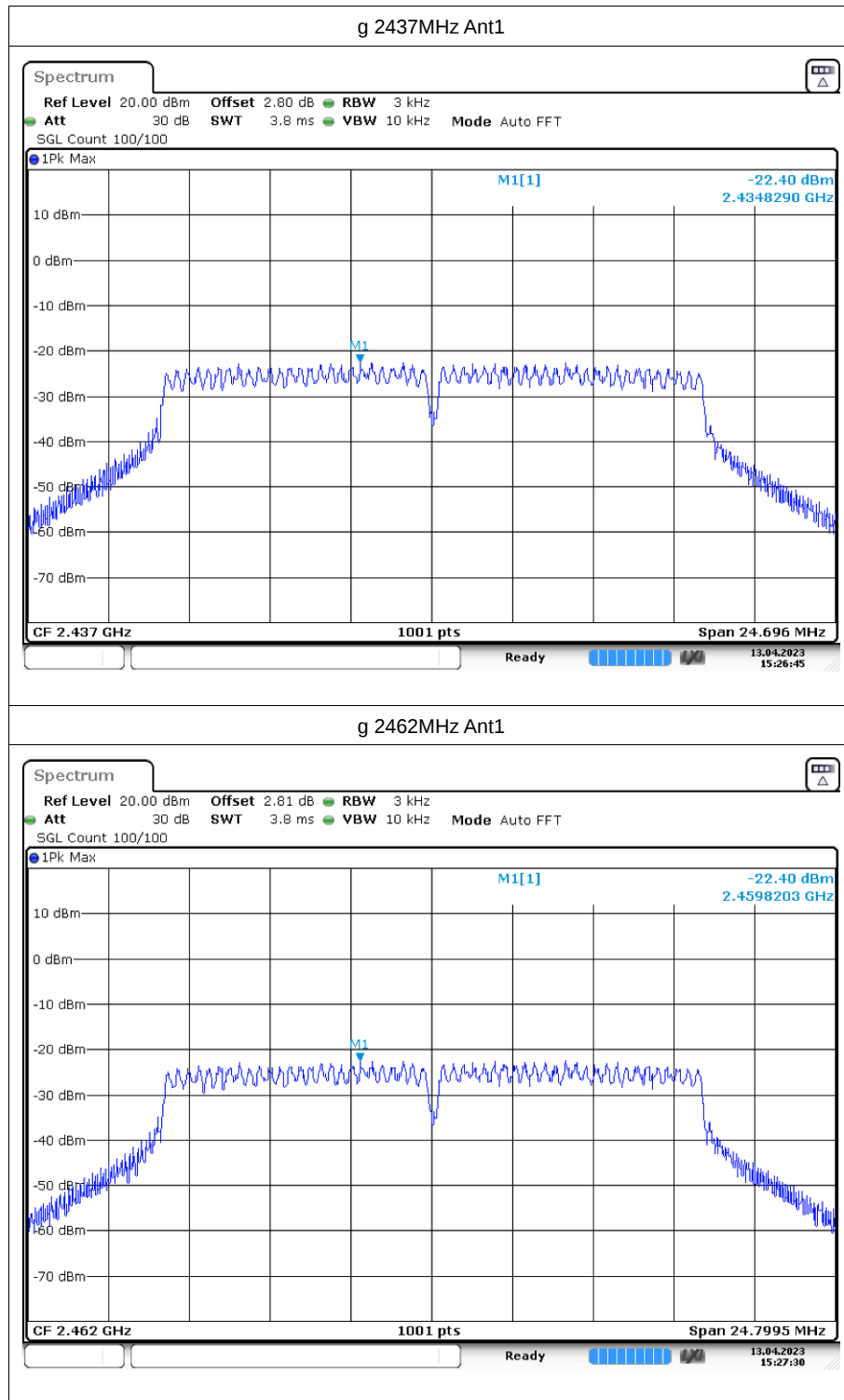
4.1 Test Result

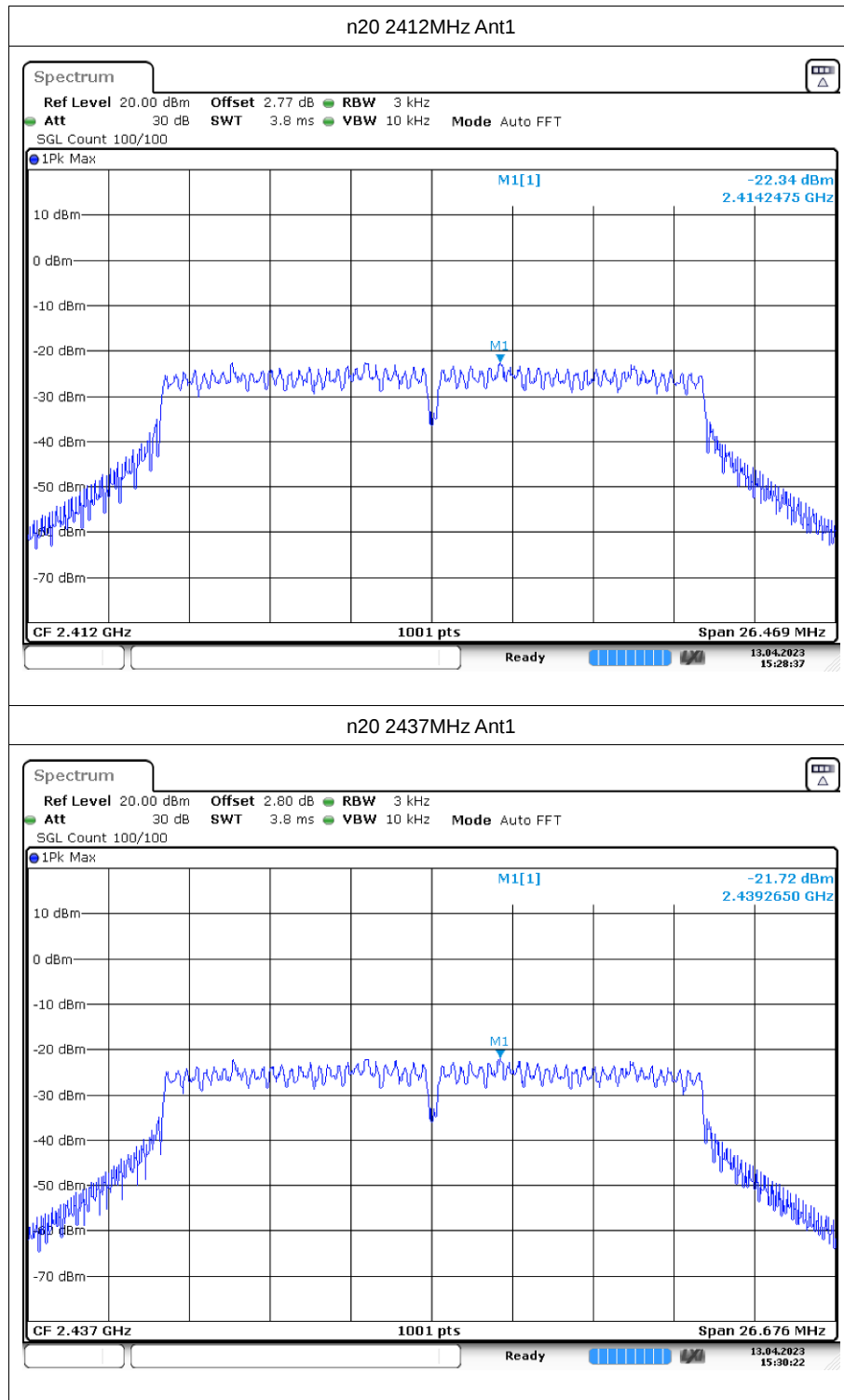
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
b	2412	Ant1	-21.95	≤ 8	Pass
b	2437	Ant1	-21.52	≤ 8	Pass
b	2462	Ant1	-21.57	≤ 8	Pass
g	2412	Ant1	-22.9	≤ 8	Pass
g	2437	Ant1	-22.4	≤ 8	Pass
g	2462	Ant1	-22.4	≤ 8	Pass
n20	2412	Ant1	-22.34	≤ 8	Pass
n20	2437	Ant1	-21.72	≤ 8	Pass
n20	2462	Ant1	-21.7	≤ 8	Pass

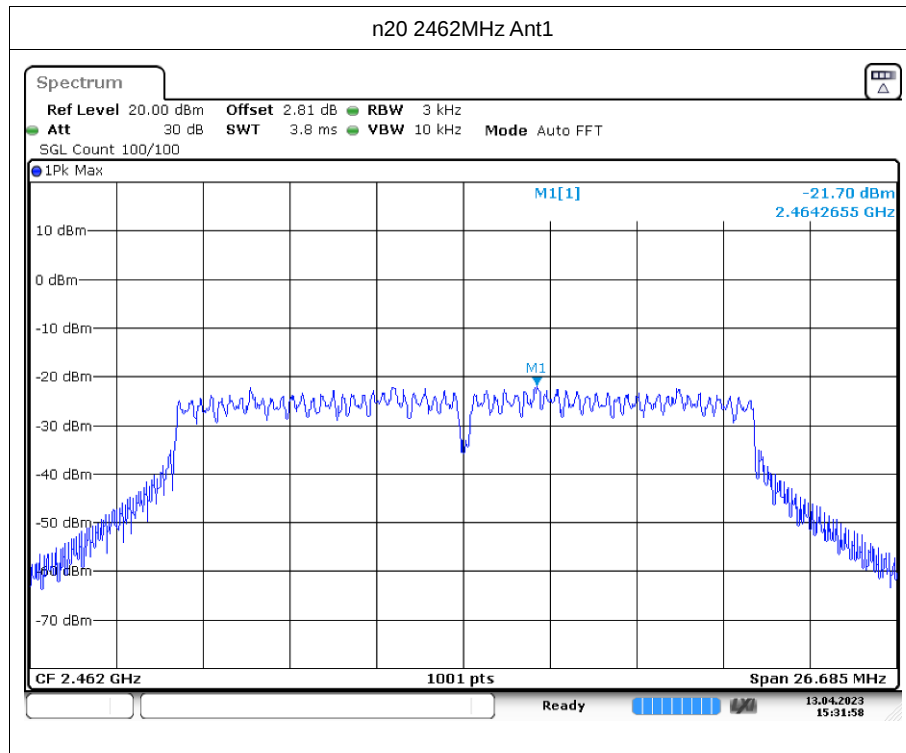
4.2 Test Graphs











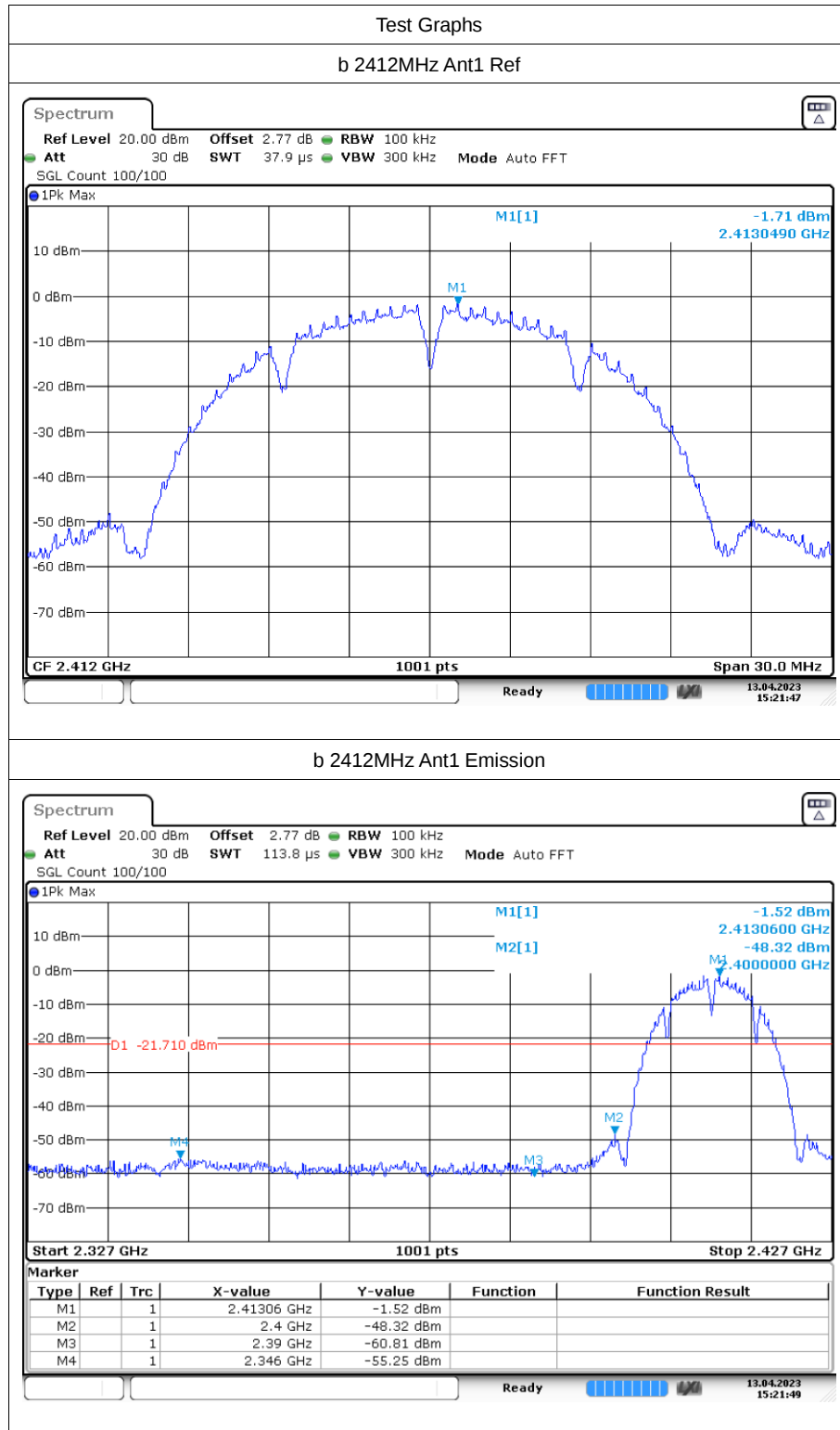


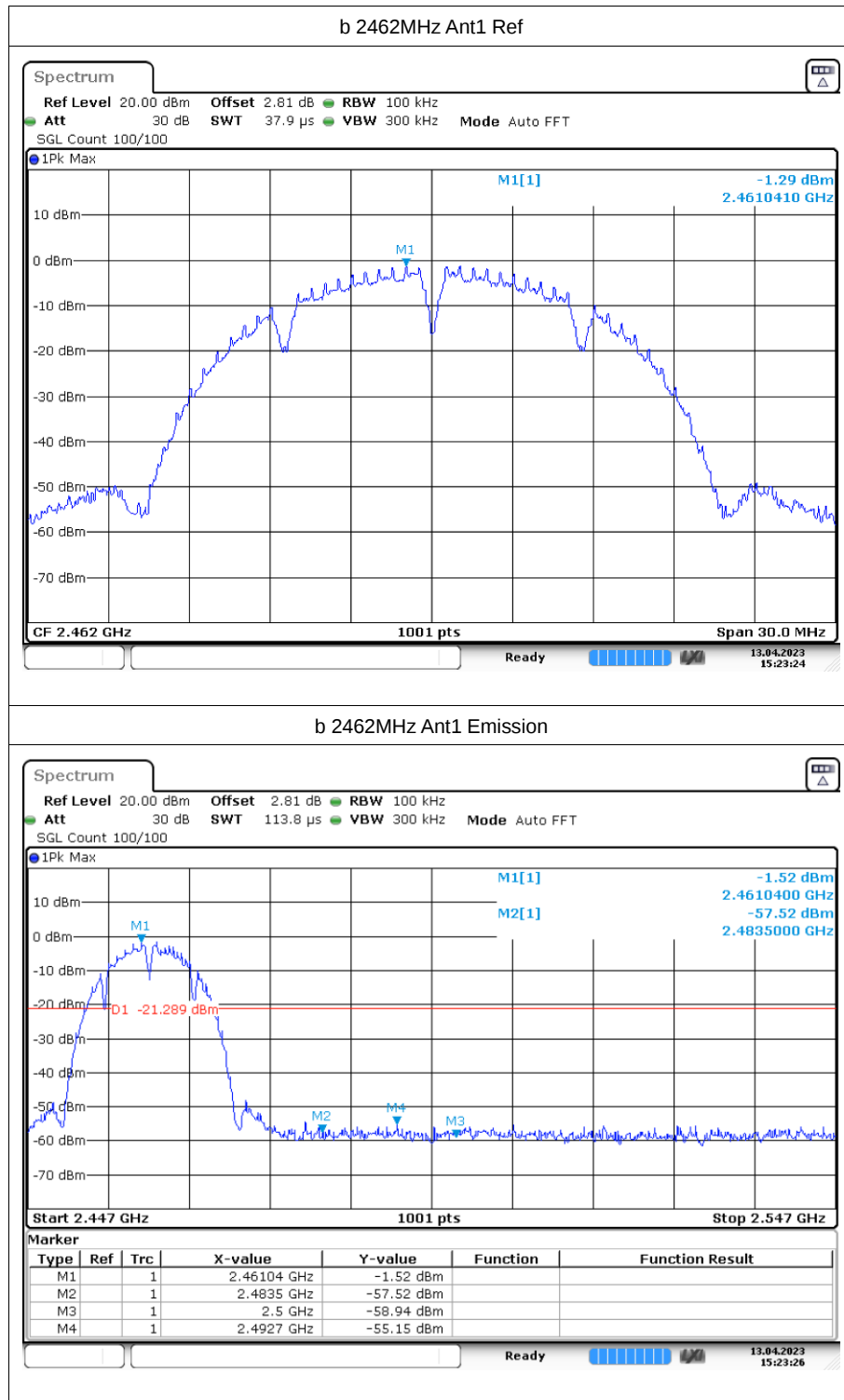
5 Band Edge

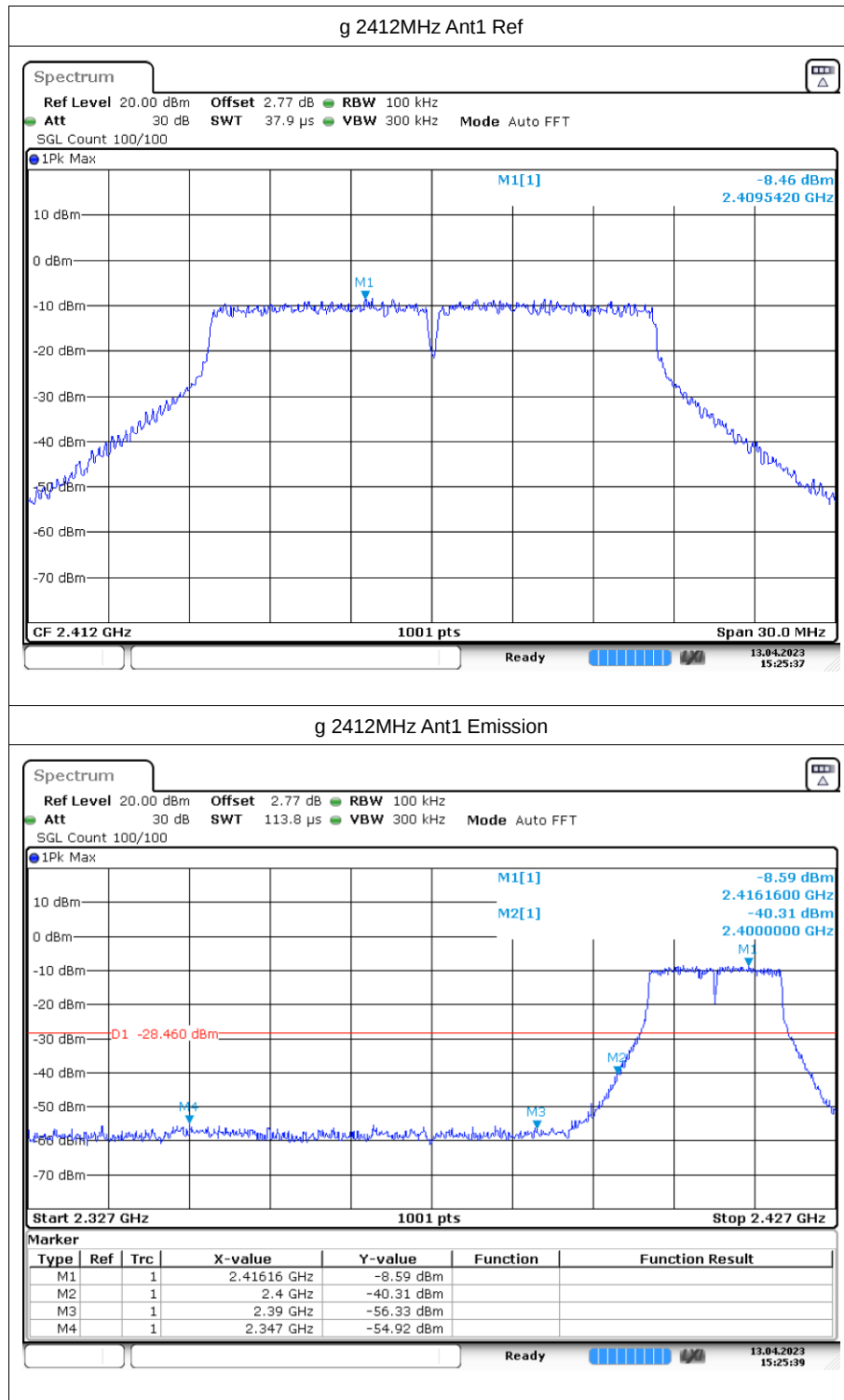
5.1 Test Result

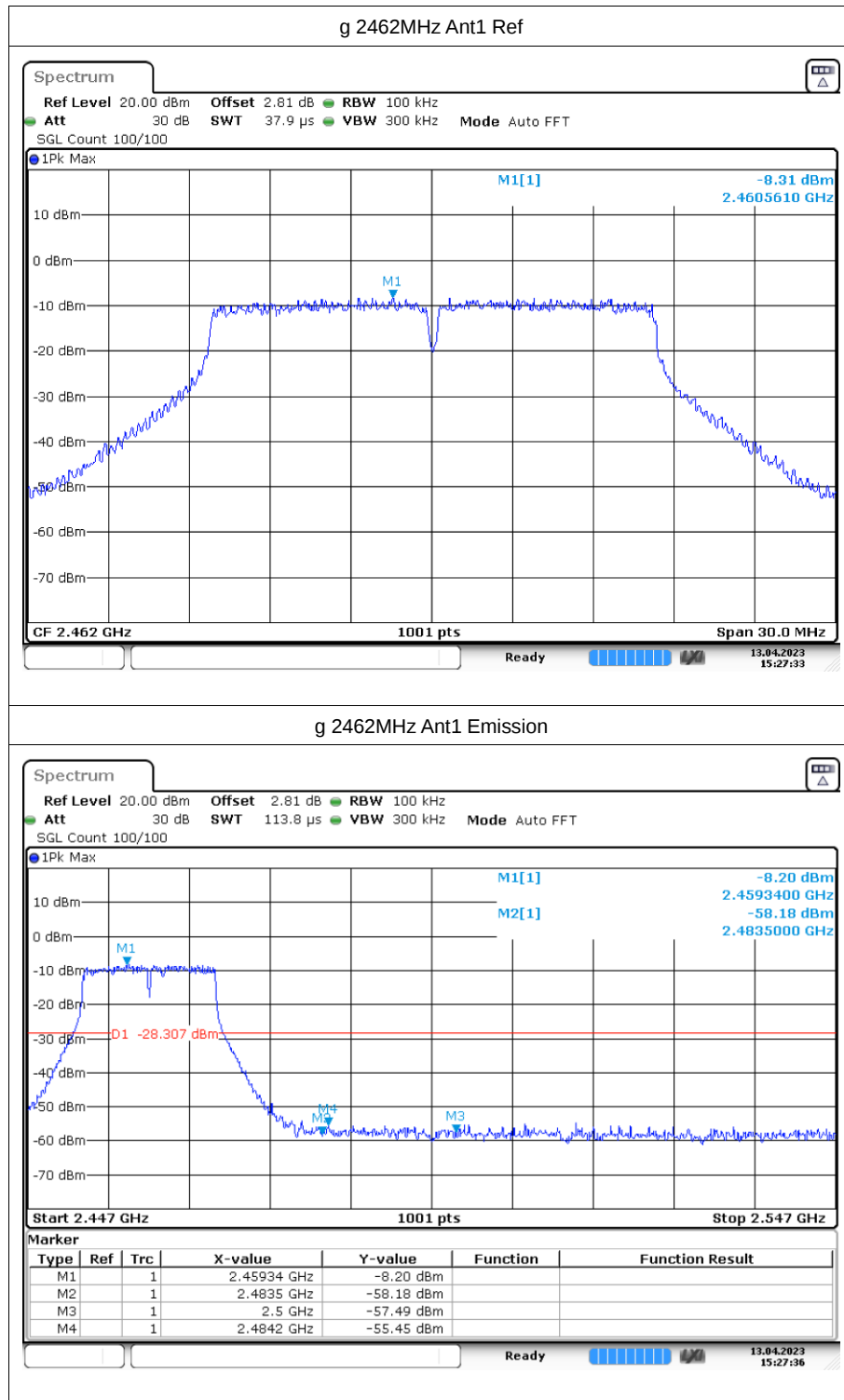
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-53.53	-20	-53.53
b	2462	Ant1	-53.85	-20	Pass
g	2412	Ant1	-46.46	-20	Pass
g	2462	Ant1	-47.13	-20	Pass
n20	2412	Ant1	-46.11	-20	Pass
n20	2462	Ant1	-47.21	-20	Pass

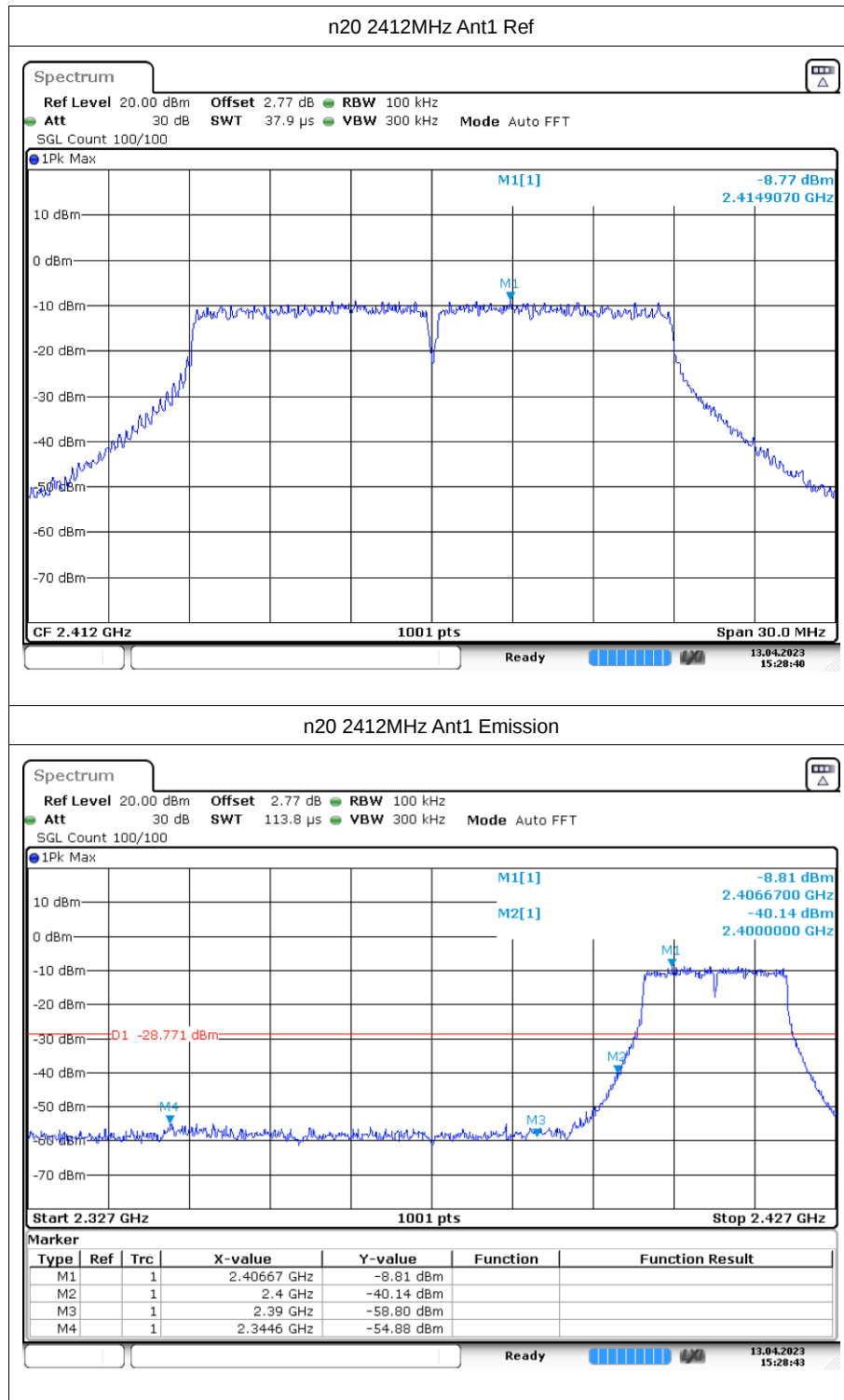
5.2 Test Graphs

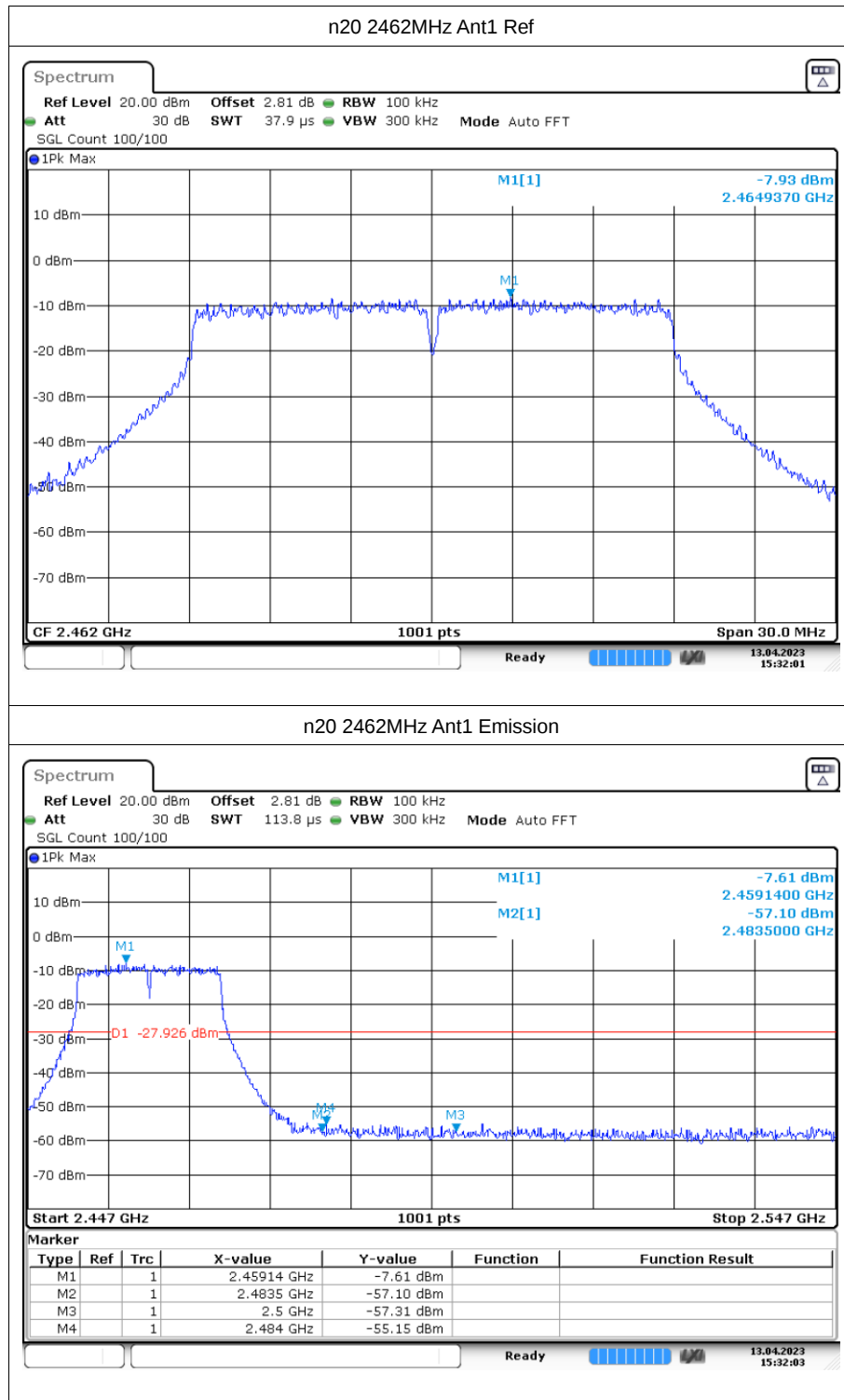












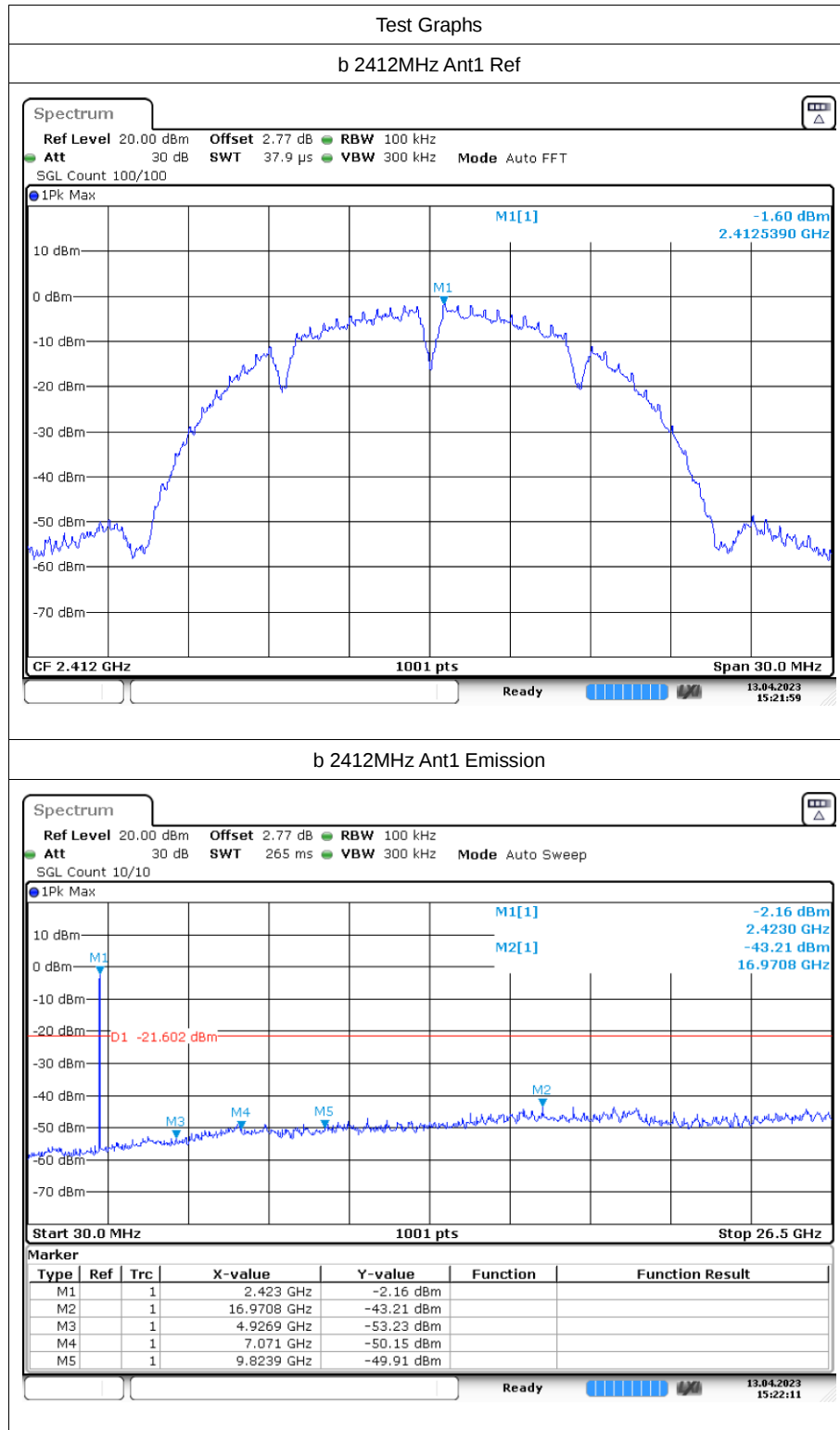


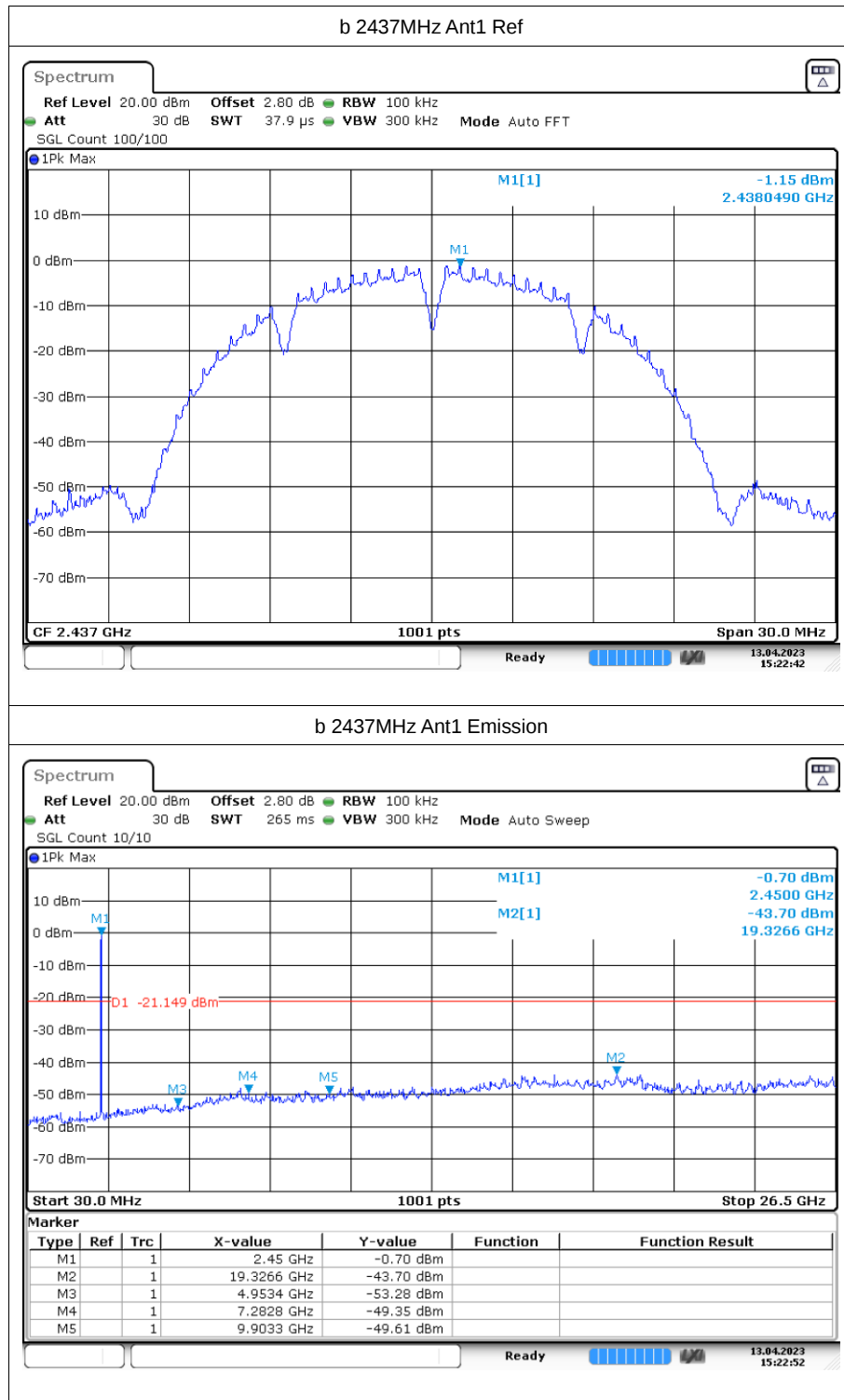
6 Conducted RF Spurious Emission

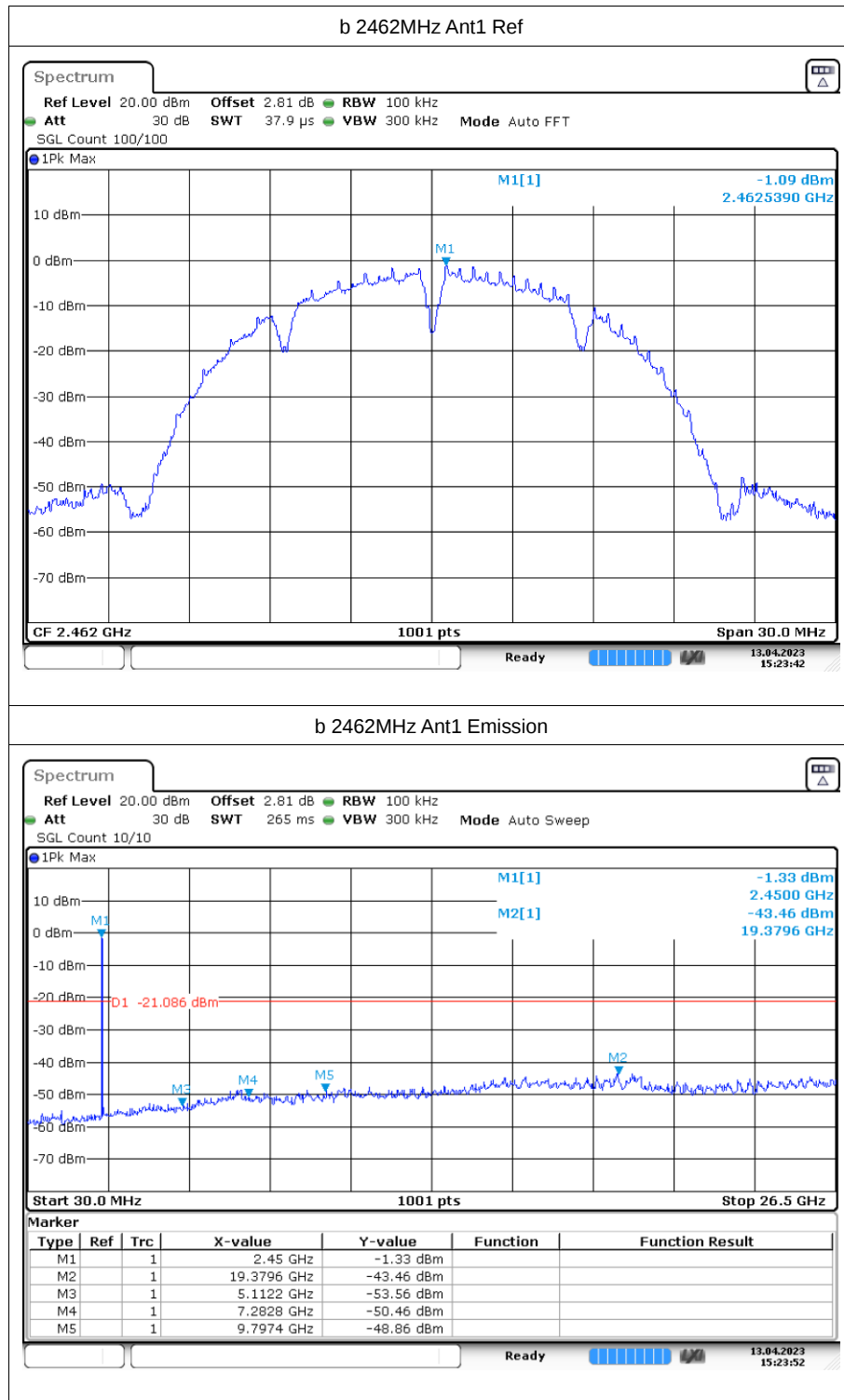
6.1 Test Result

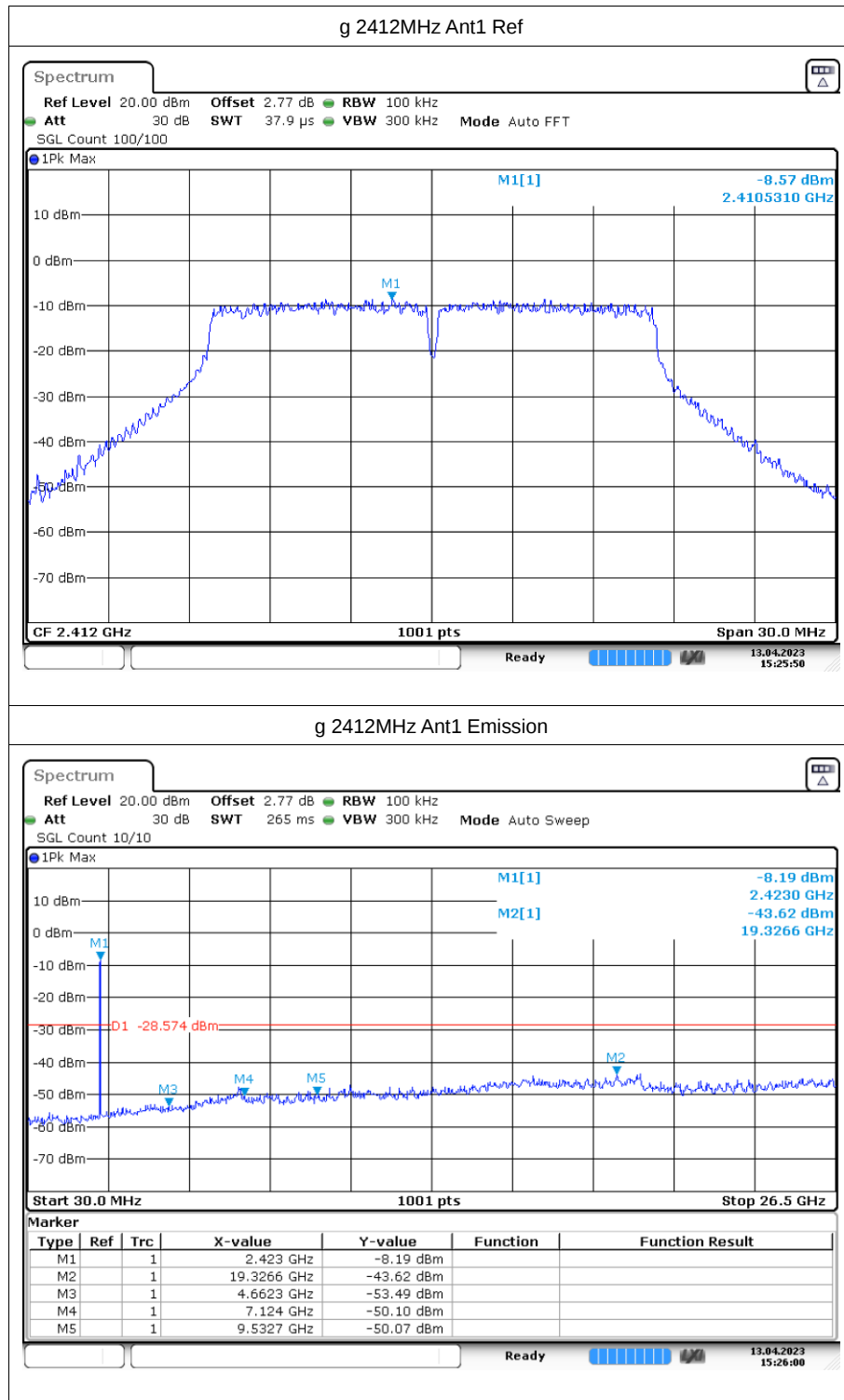
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-41.61	-20	Pass
b	2437	Ant1	-42.55	-20	Pass
b	2462	Ant1	-42.37	-20	Pass
g	2412	Ant1	-35.04	-20	Pass
g	2437	Ant1	-35.14	-20	Pass
g	2462	Ant1	-35.77	-20	Pass
n20	2412	Ant1	-35.82	-20	Pass
n20	2437	Ant1	-35.43	-20	Pass
n20	2462	Ant1	-33.99	-20	Pass

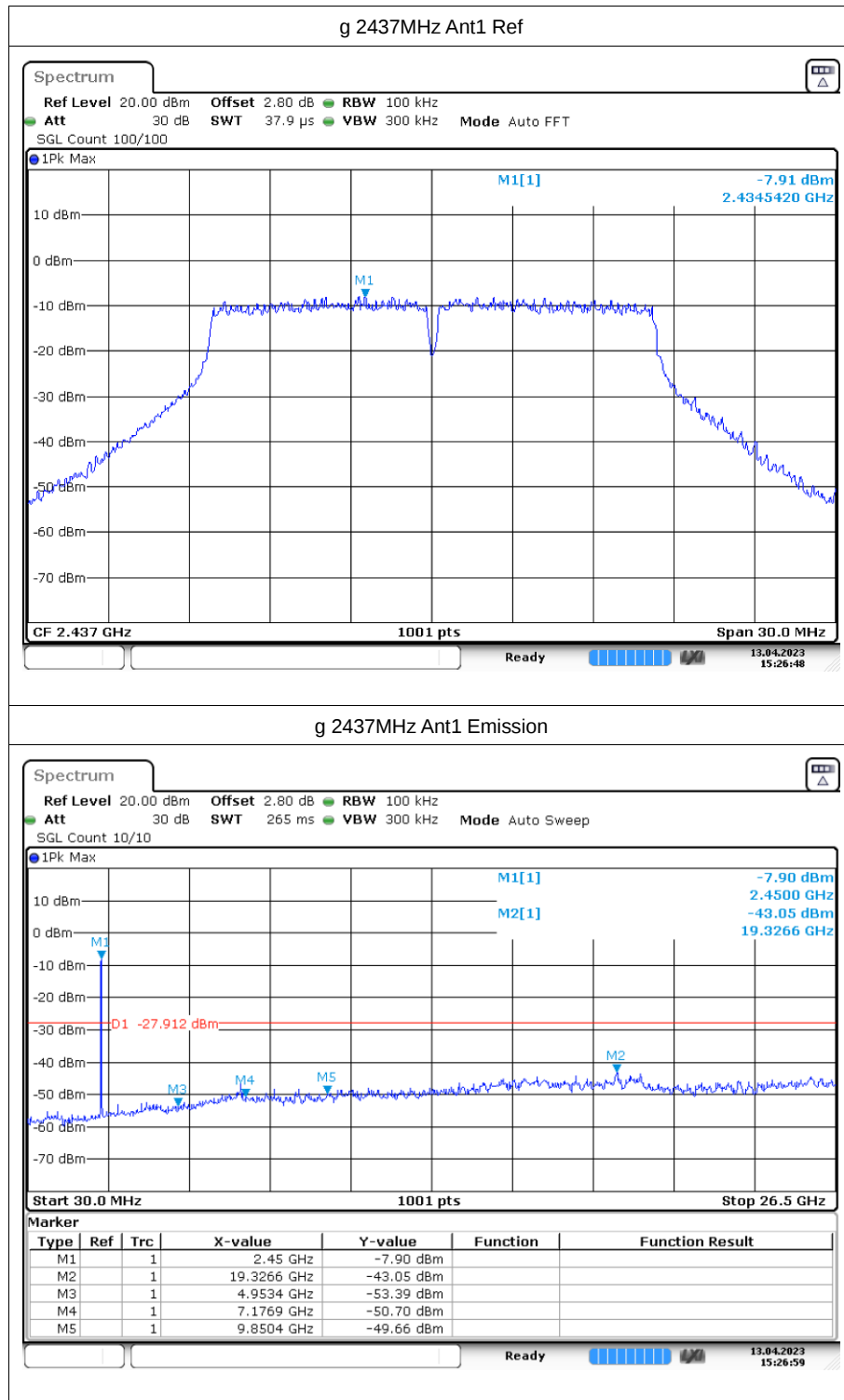
6.2 Test Graphs

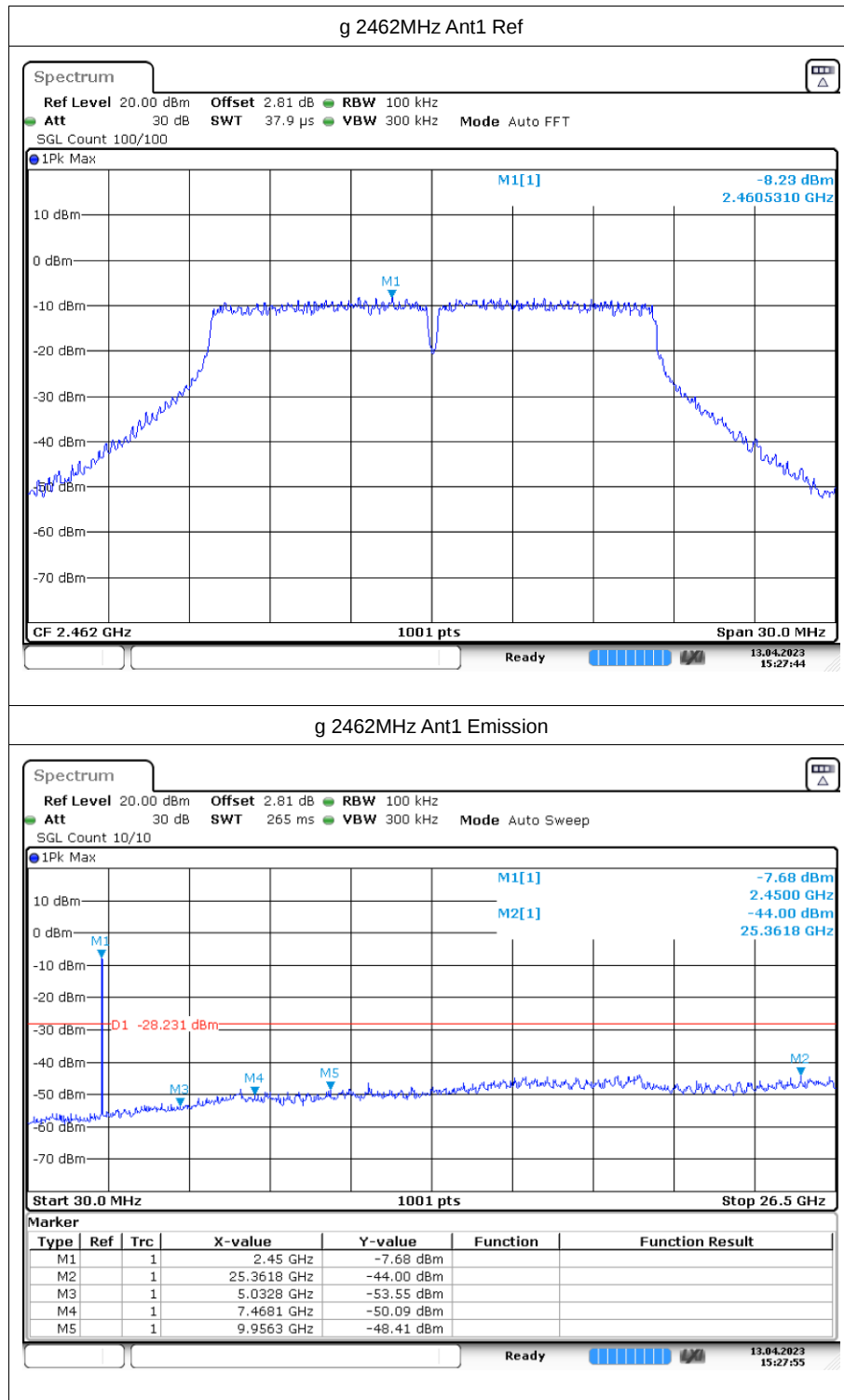


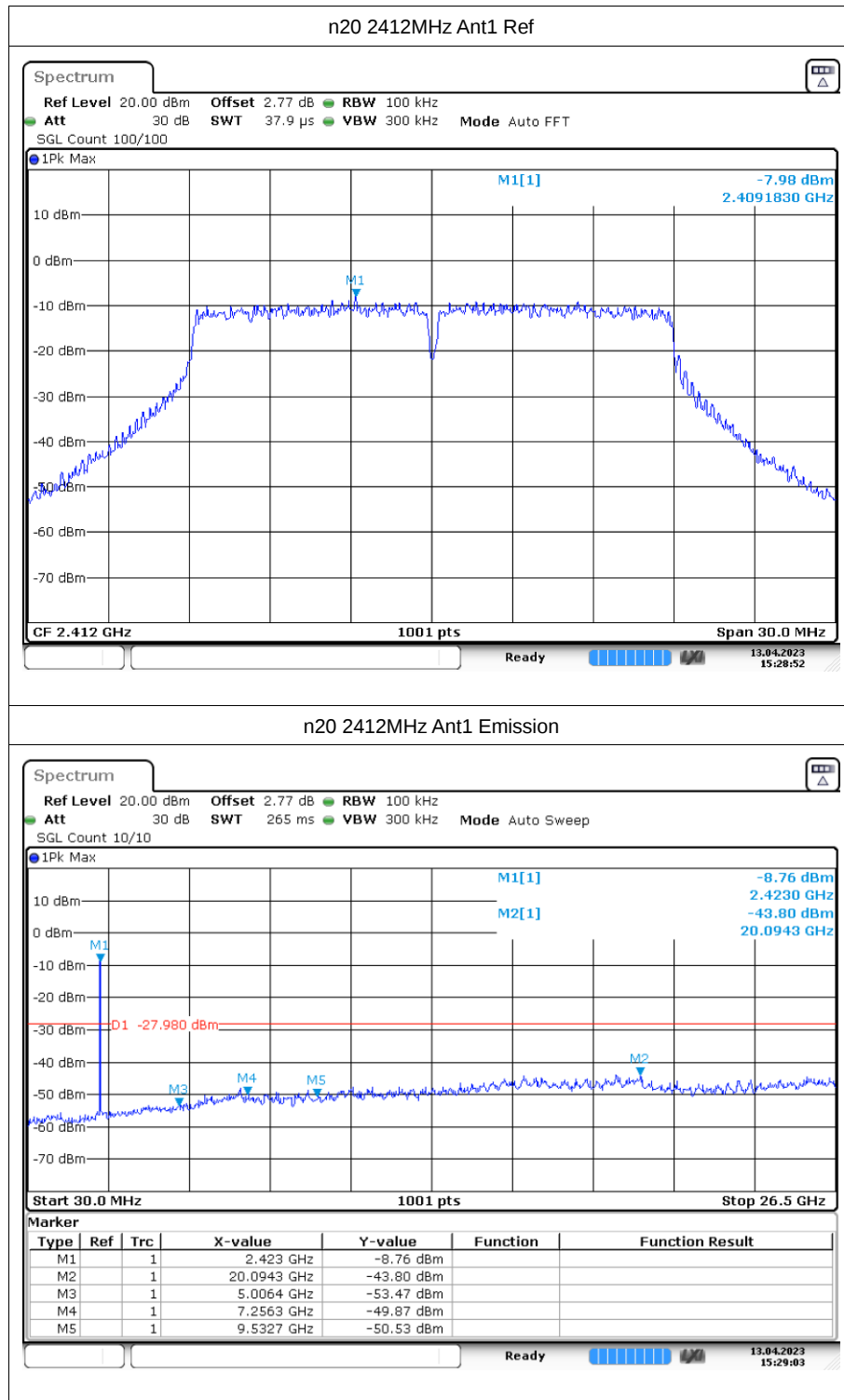


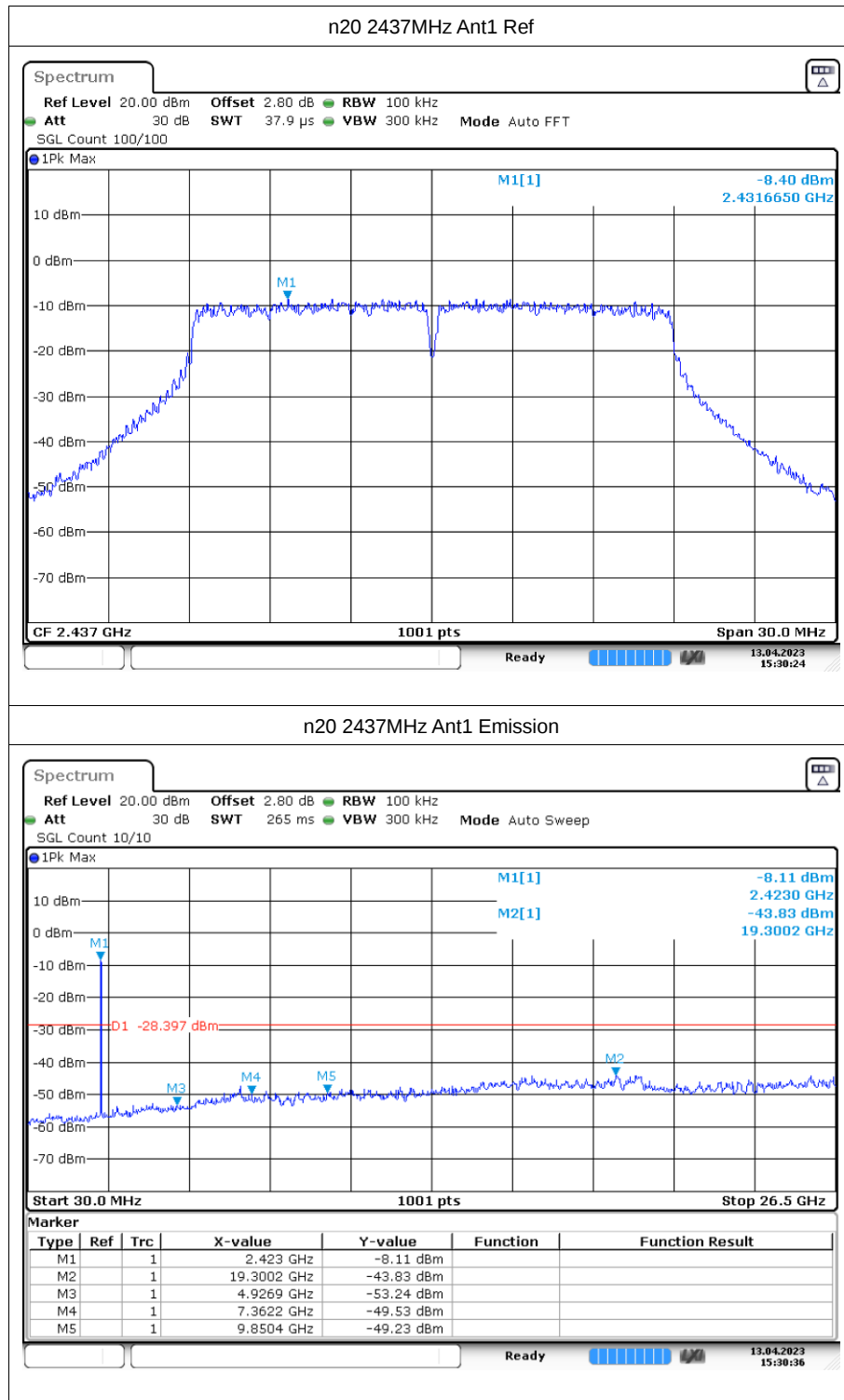


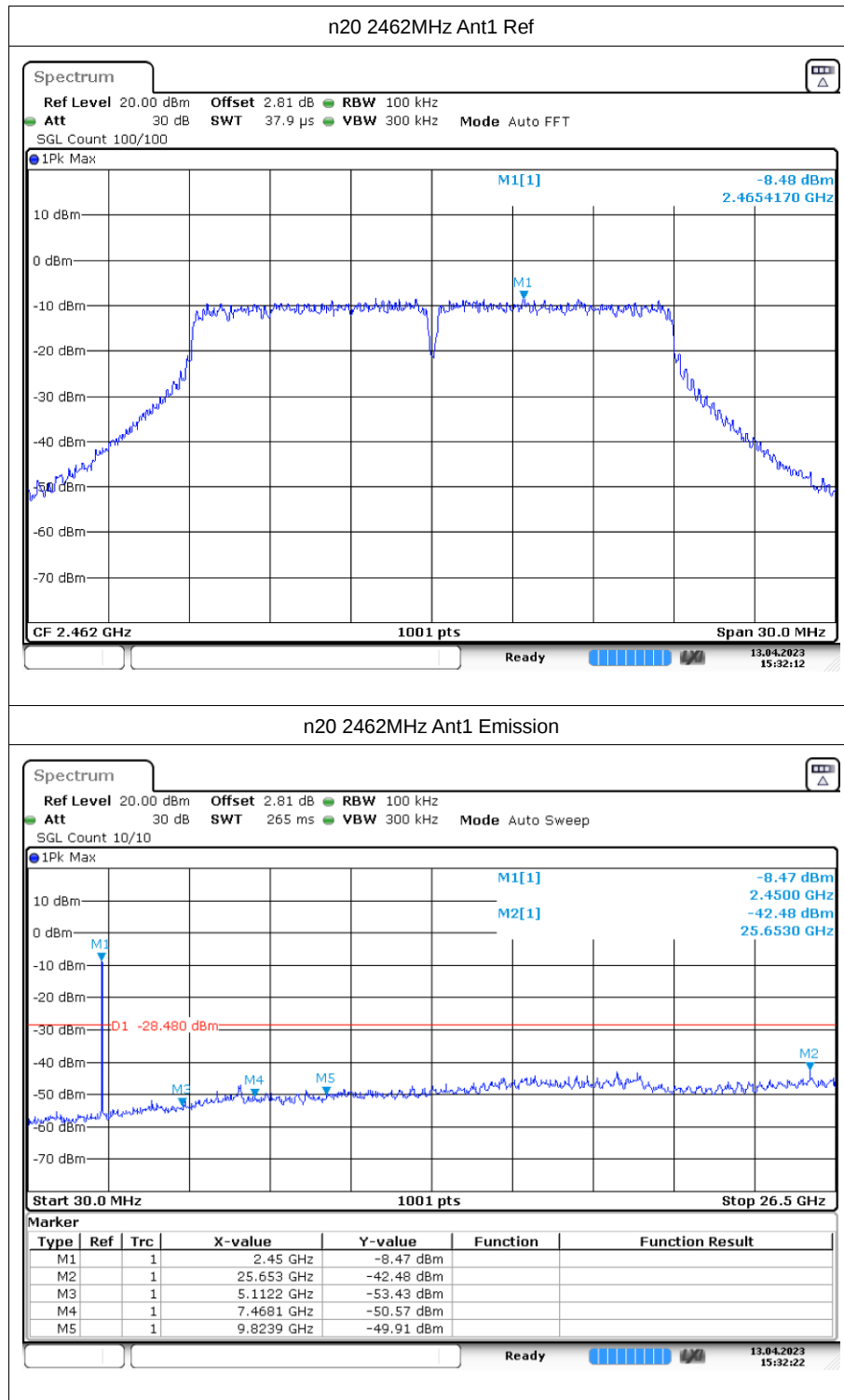














7 Restrict Band

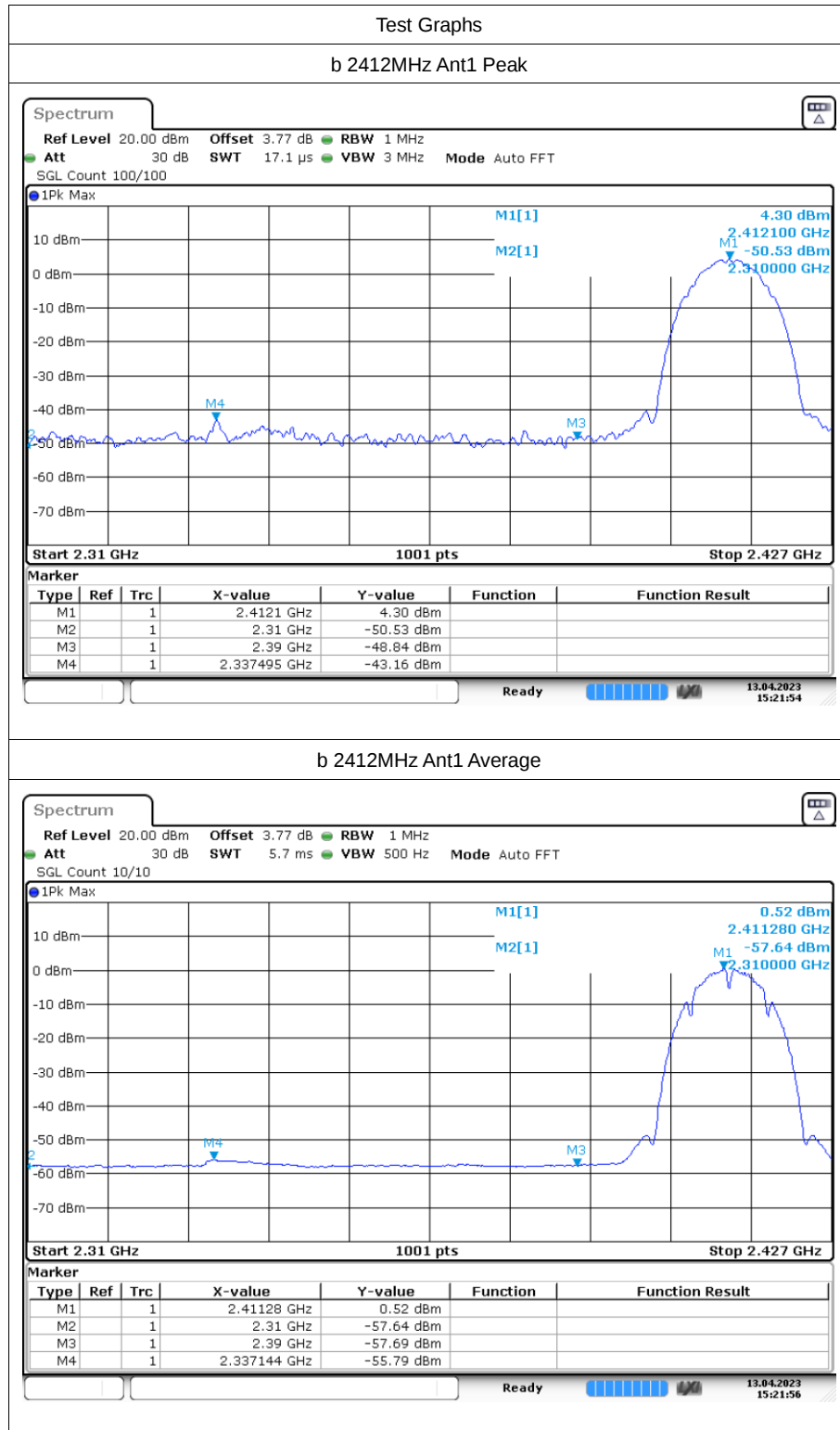
7.1 Test Result

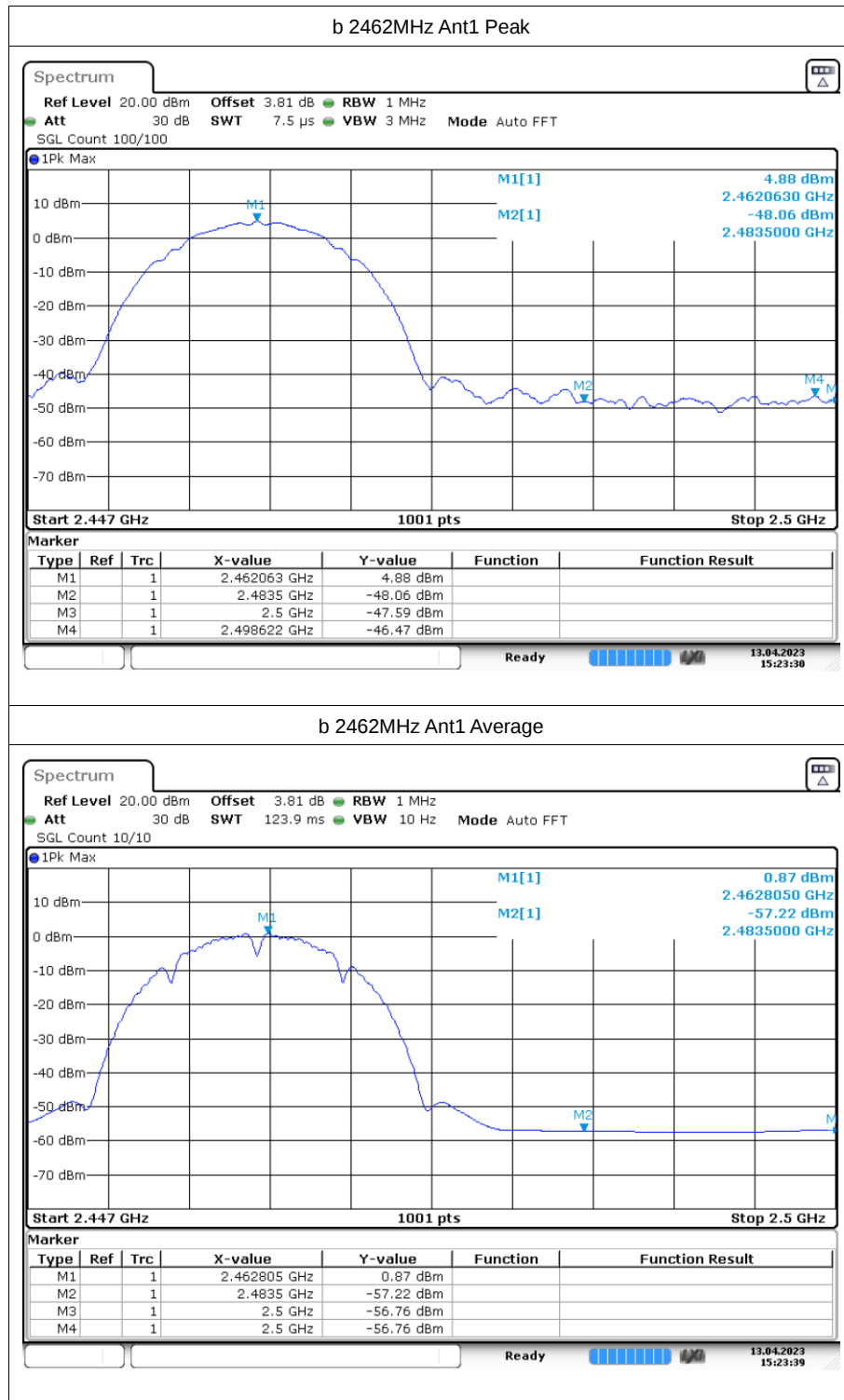
Mod e	Frequency (MHz)	Antenn a	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detecto r	Limit (dBuV/m)	Verdic t
b	2412	Ant1	2310	-50.53	2	46.73	Peak	74	Pass
b	2412	Ant1	2310	-57.64	2	39.62	Average	54	Pass
b	2412	Ant1	2337.495	-43.16	2	54.1	Peak	74	Pass
b	2412	Ant1	2337.144	-55.79	2	41.47	Average	54	Pass
b	2412	Ant1	2390	-48.83	2	48.43	Peak	74	Pass
b	2412	Ant1	2390	-57.68	2	39.58	Average	54	Pass
b	2462	Ant1	2483.5	-48.06	2	49.2	Peak	74	49.2
b	2462	Ant1	2483.5	-57.21	2	40.05	Average	54	Pass
b	2462	Ant1	2498.622	-46.47	2	50.79	Peak	74	Pass
b	2462	Ant1	2500	-56.76	2	40.5	Average	54	Pass
b	2462	Ant1	2500	-47.58	2	49.68	Peak	74	Pass
b	2462	Ant1	2500	-56.76	2	40.5	Average	54	Pass
g	2412	Ant1	2310	-48.3	2	48.96	Peak	74	Pass
g	2412	Ant1	2310	-57.16	2	40.1	Average	54	Pass
g	2412	Ant1	2340.42	-44.28	2	52.98	Peak	74	Pass
g	2412	Ant1	2337.378	-54.61	2	42.65	Average	54	Pass
g	2412	Ant1	2390	-47.83	2	48.43	Peak	74	Pass
g	2412	Ant1	2390	-56.51	2	40.75	Average	54	Pass
g	2462	Ant1	2483.5	-44.86	2	52.4	Peak	74	Pass
g	2462	Ant1	2483.5	-53.9	2	43.36	Average	54	Pass
g	2462	Ant1	2498.622	-44.38	2	52.88	Peak	74	Pass
g	2462	Ant1	2483.517	-53.9	2	43.36	Average	54	Pass
g	2462	Ant1	2500	-47.41	2	49.68	Peak	74	Pass
g	2462	Ant1	2500	-55.98	2	41.28	Average	54	Pass
n20	2412	Ant1	2310	-49.62	2	47.64	Peak	74	Pass
n20	2412	Ant1	2310	-56.84	2	40.42	Average	54	Pass
n20	2412	Ant1	2345.334	-44.69	2	52.57	Peak	74	Pass
n20	2412	Ant1	2336.91	-55.07	2	42.19	Average	54	Pass
n20	2412	Ant1	2390	-46.57	2	50.69	Peak	74	Pass
n20	2412	Ant1	2390	-55.49	2	41.77	Average	54	Pass
n20	2462	Ant1	2483.5	-44.44	2	52.82	Peak	74	Pass
n20	2462	Ant1	2483.5	-54.57	2	42.69	Average	54	Pass
n20	2462	Ant1	2483.517	-44.44	2	52.82	Peak	74	Pass
n20	2462	Ant1	2483.676	-54.5	2	42.76	Average	54	Pass

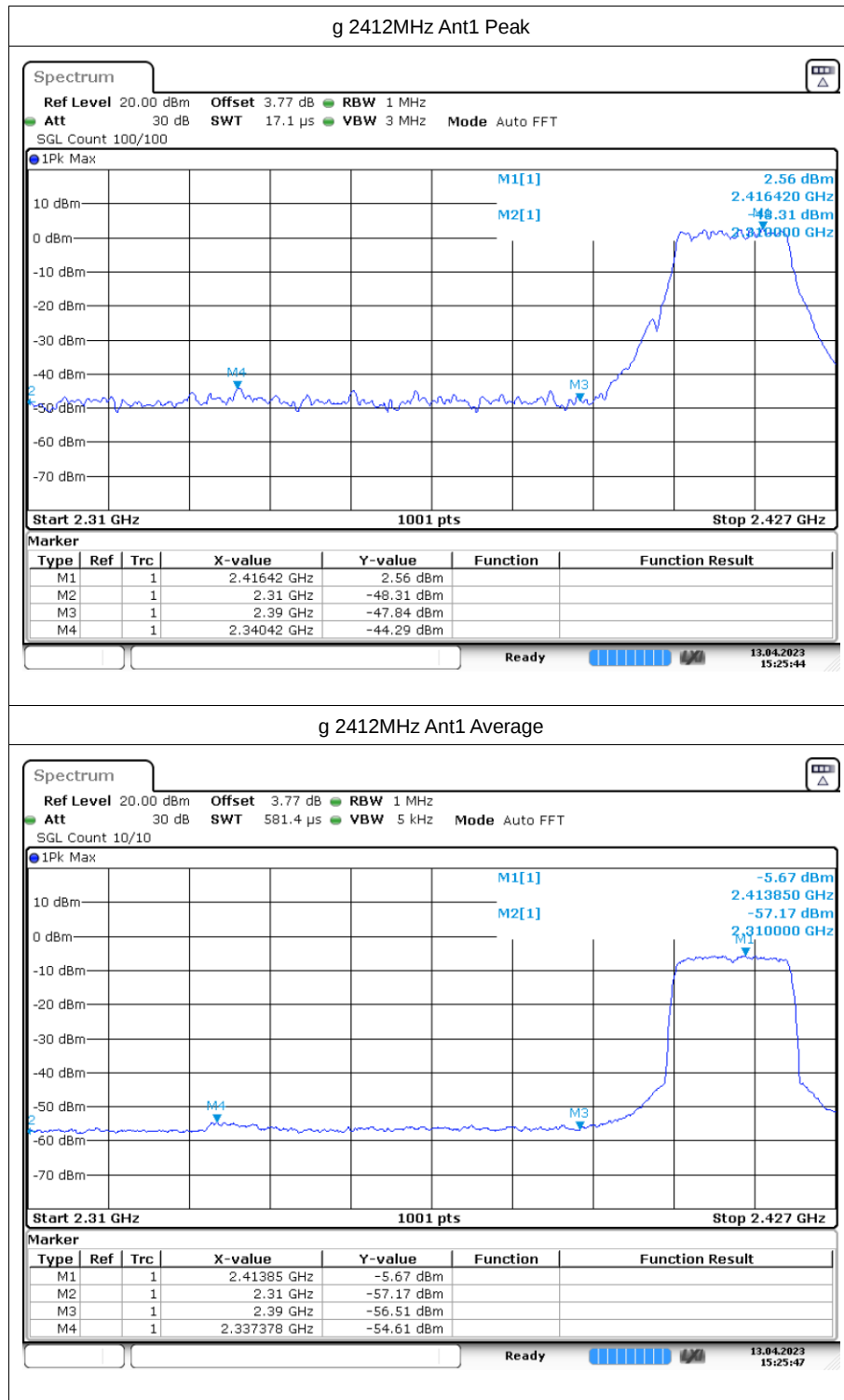


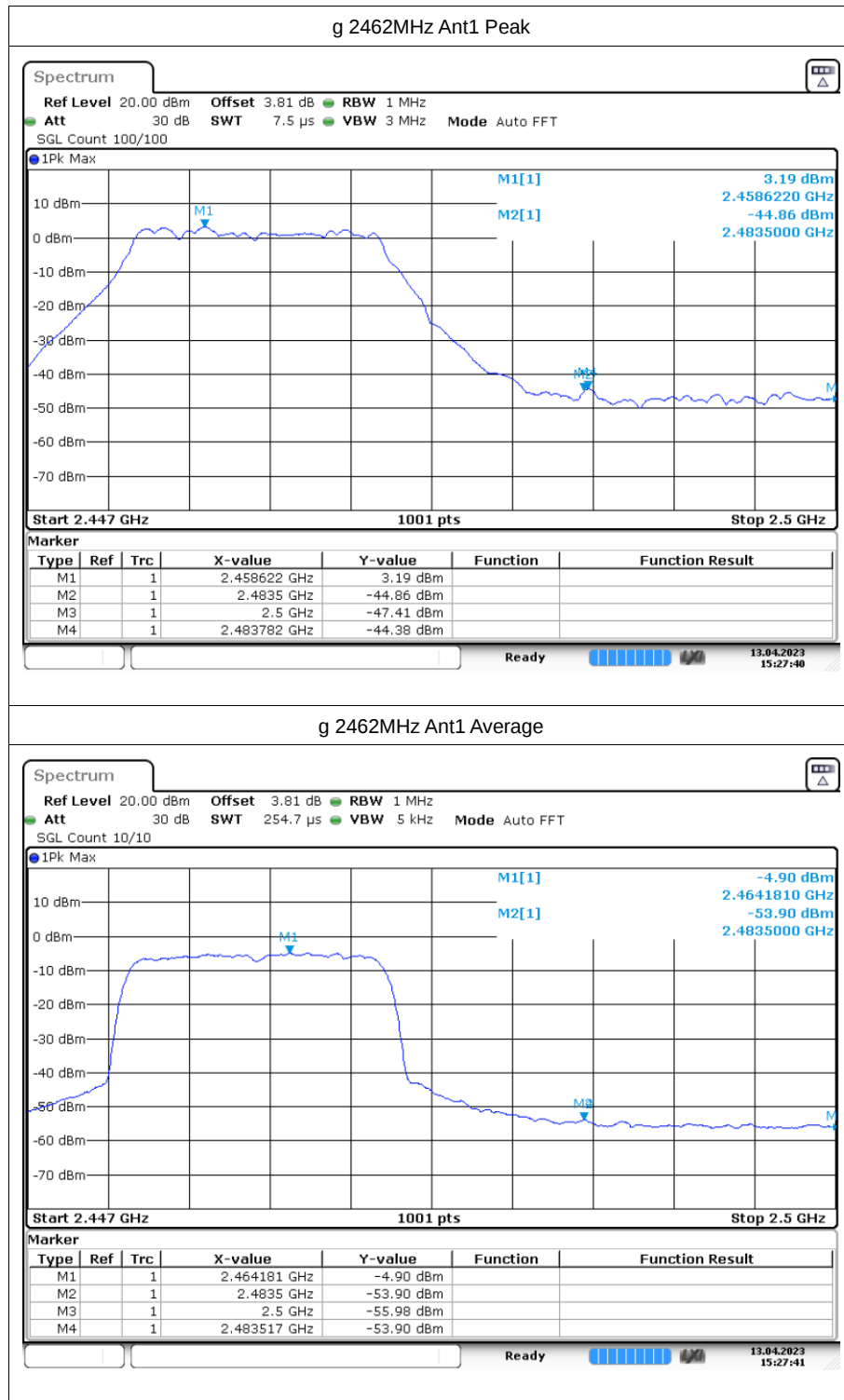
n20	2462	Ant1	2500	-48.2	2	49.06	Peak	74	Pass
n20	2462	Ant1	2500	-56.12	2	41.14	Average	54	Pass

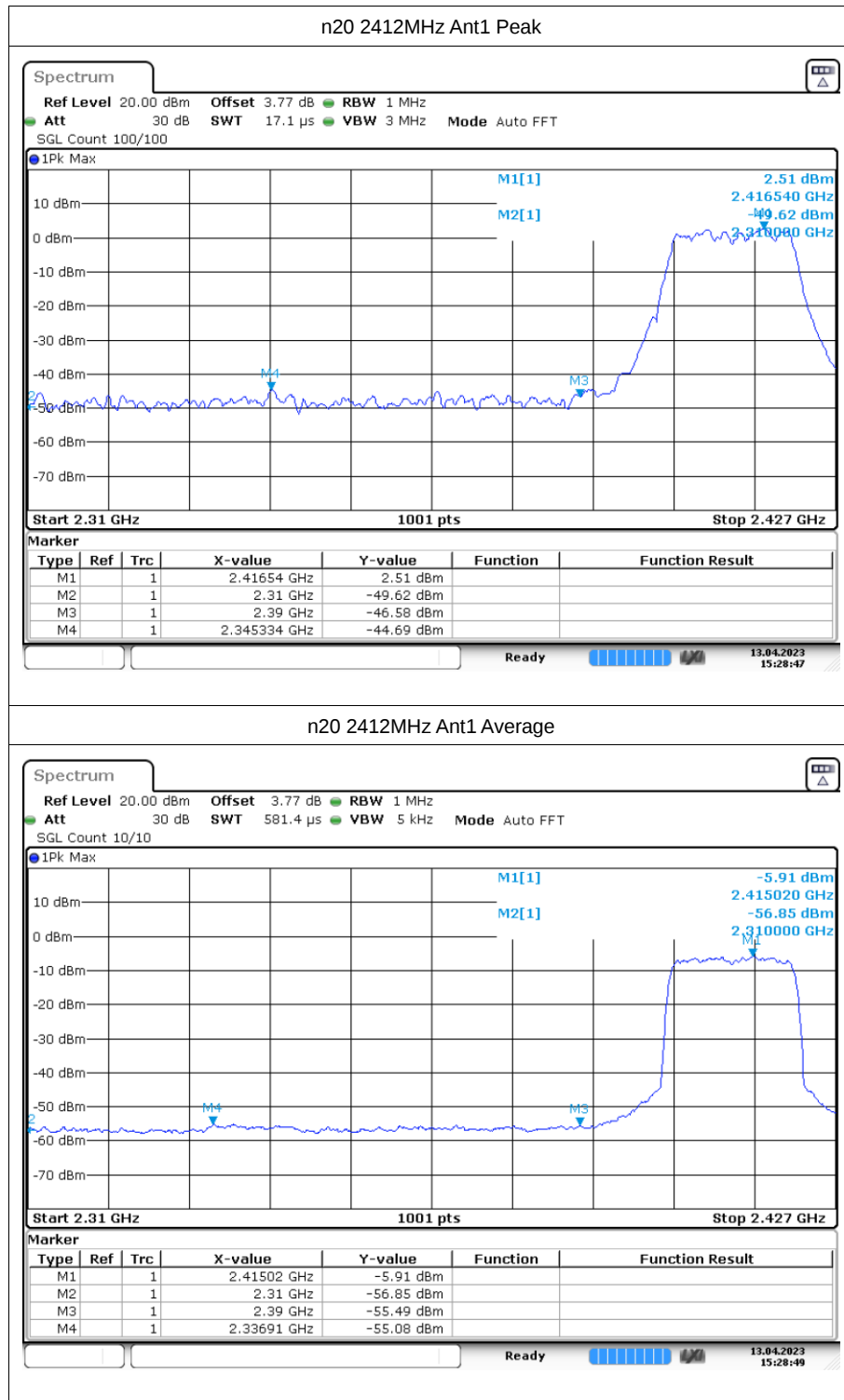
7.2 Test Graphs

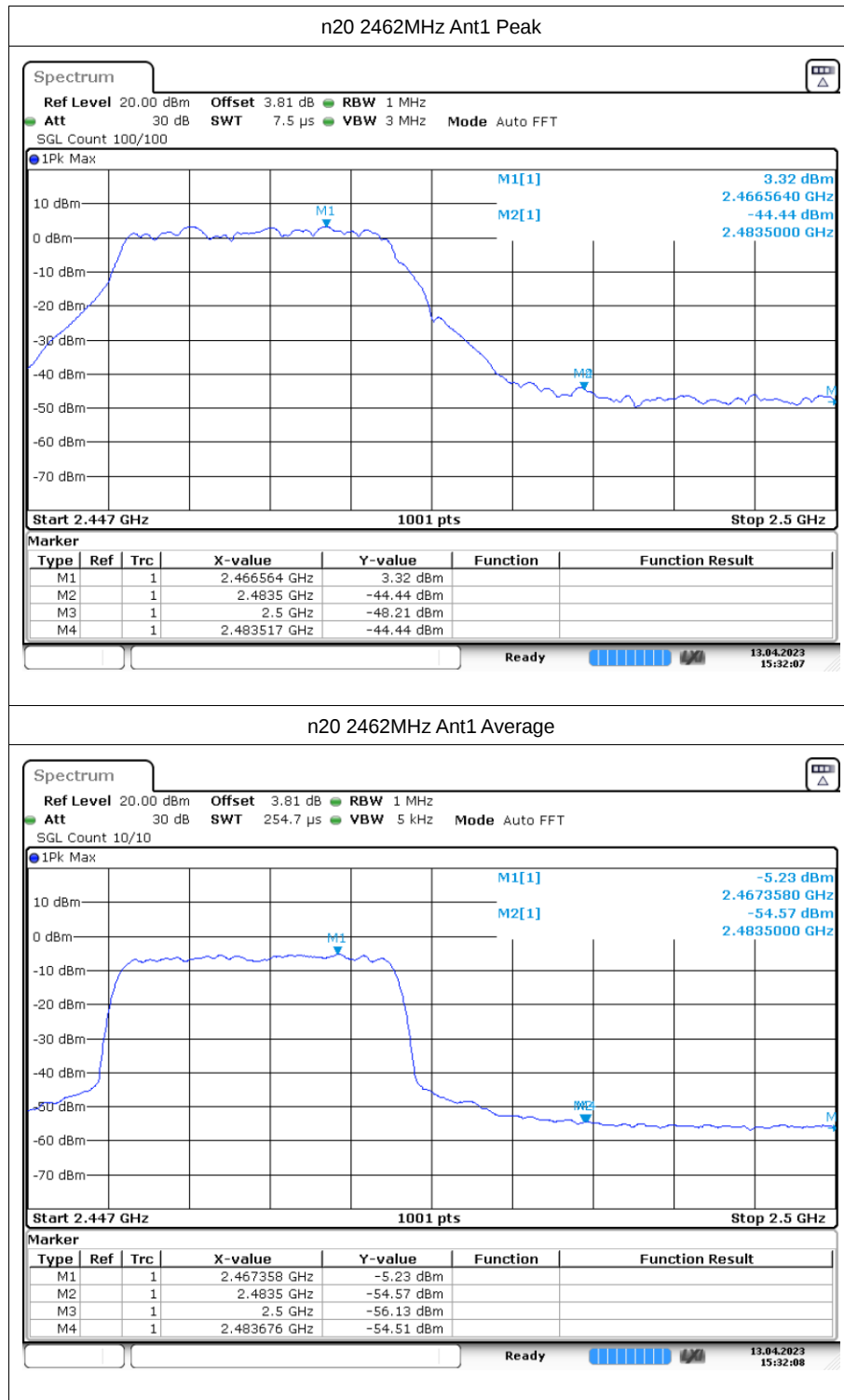












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