



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Reinkstone R1

Trade Mark: Reinkstone

Test Model: Reink100

Environmental Conditions

Temperature:	25.4° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Simba Huang
Supervised by:	Seal Chen



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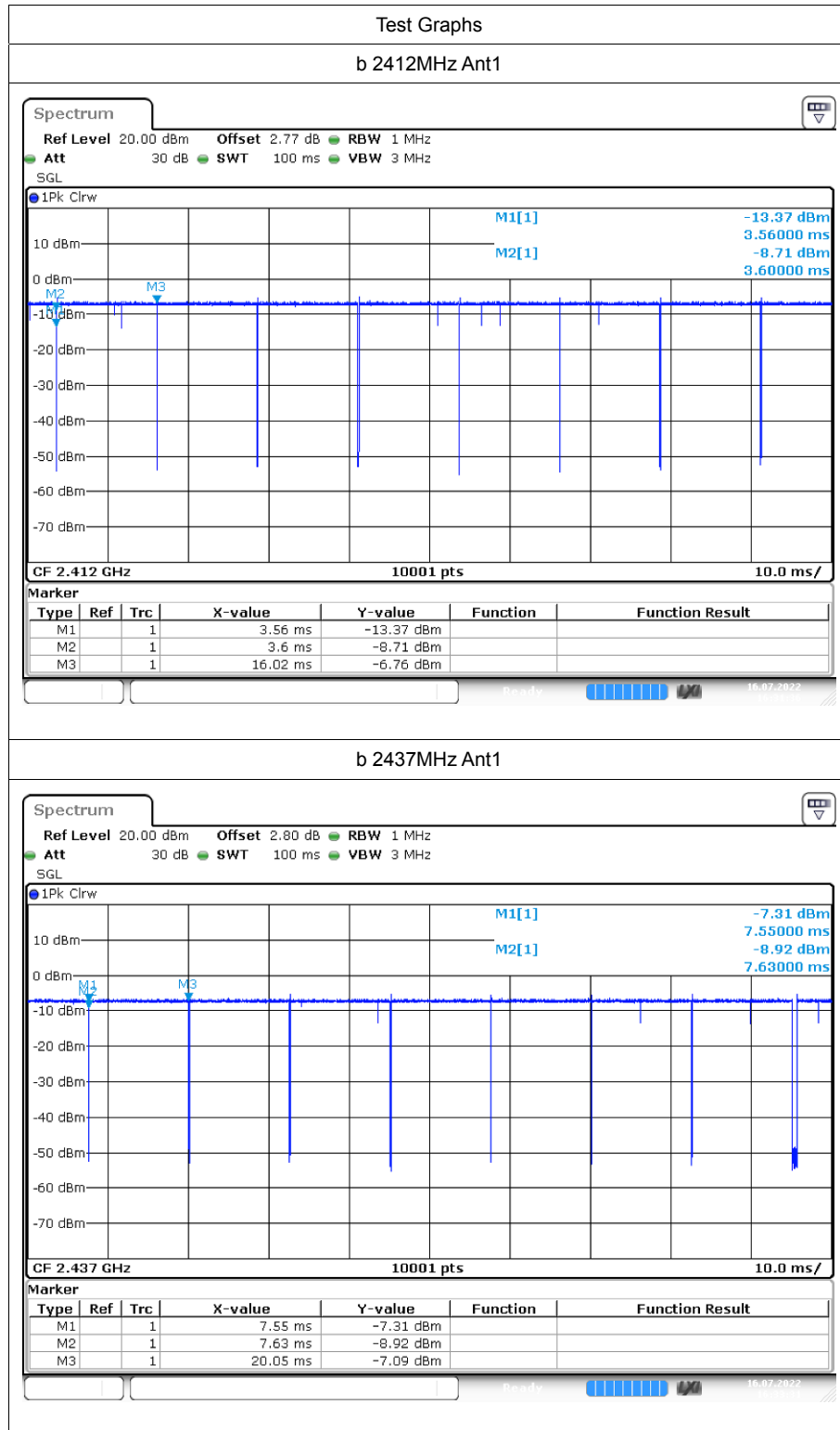


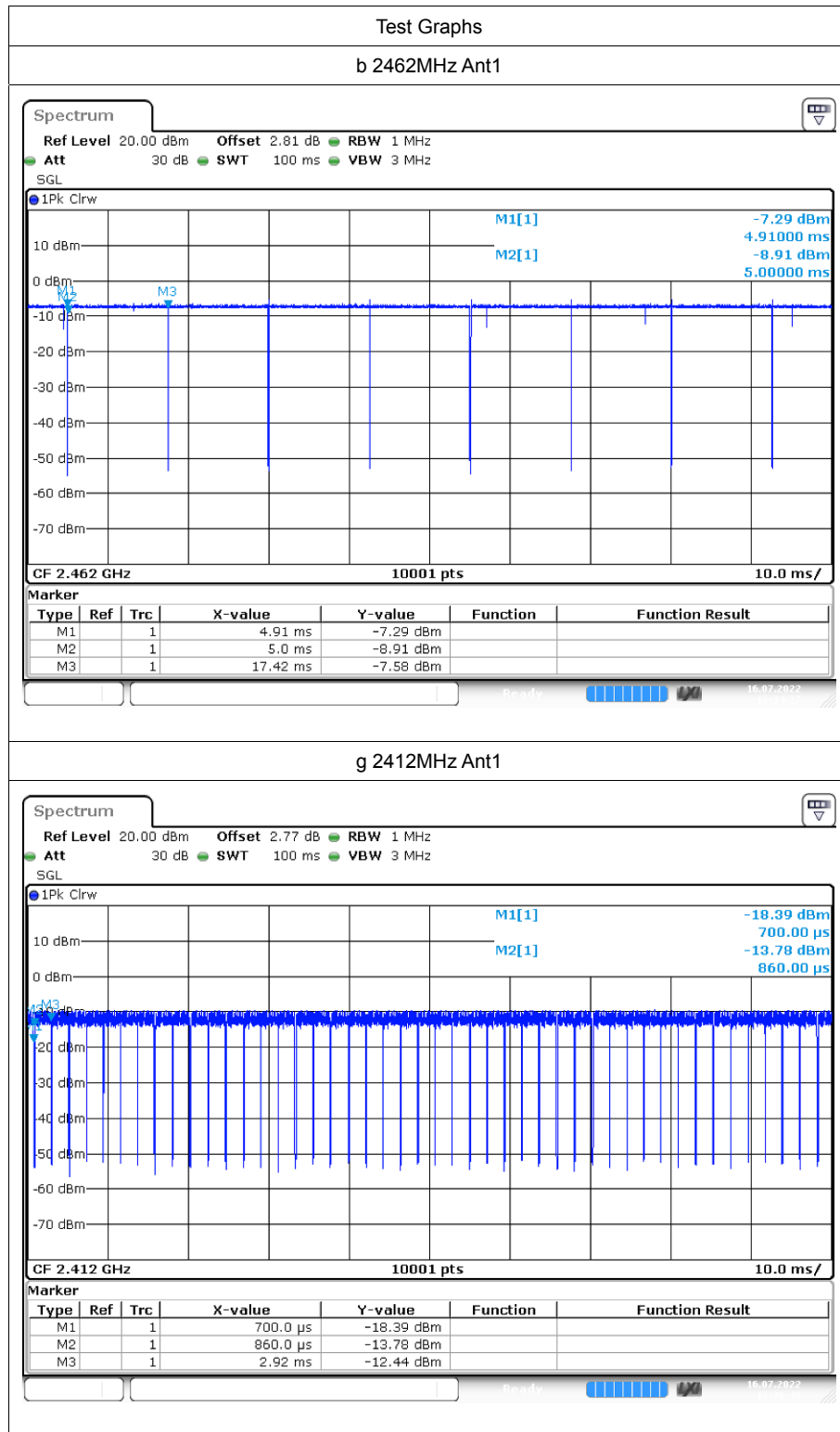
1 Duty Cycle

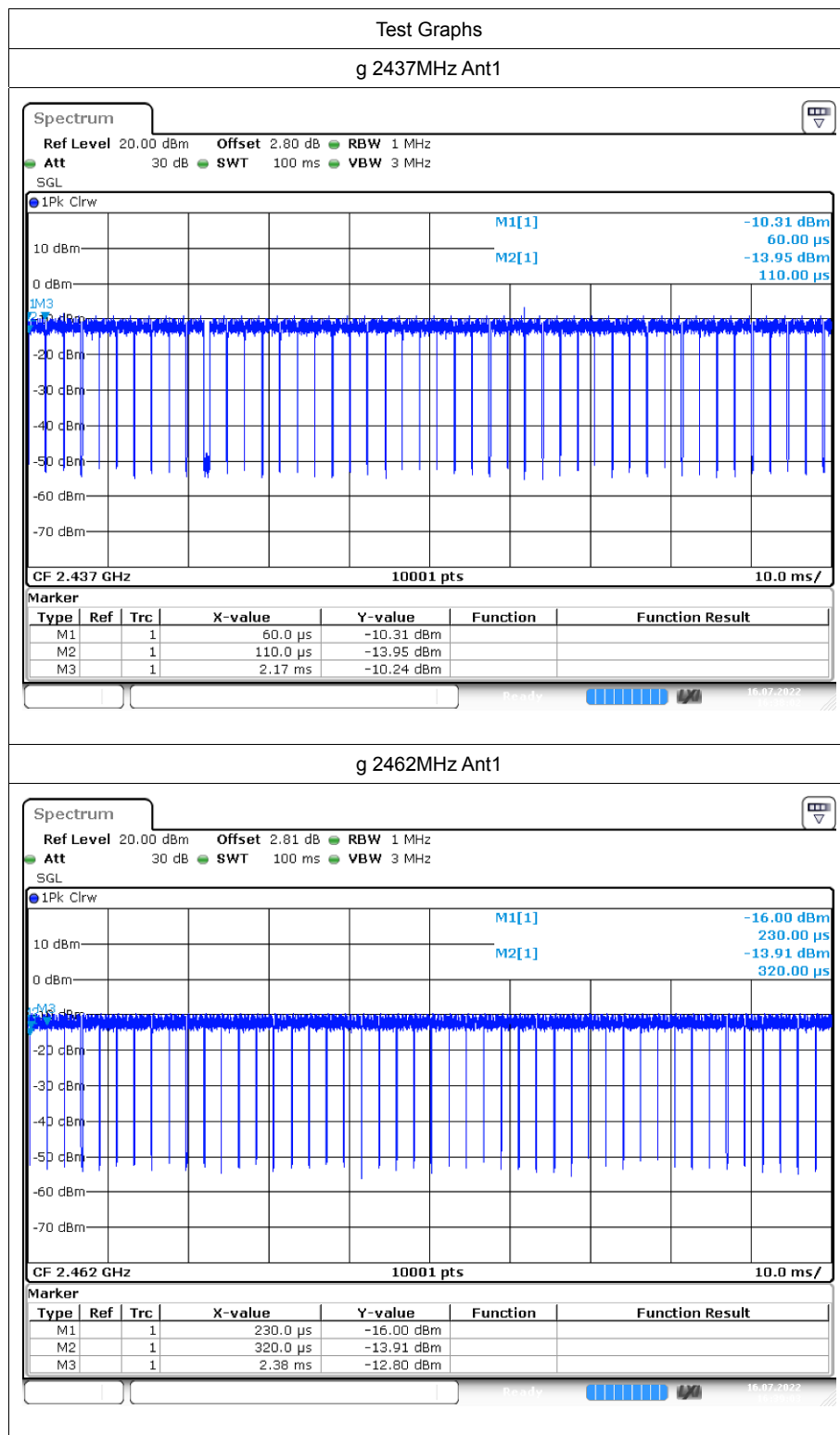
1.1 Test Result

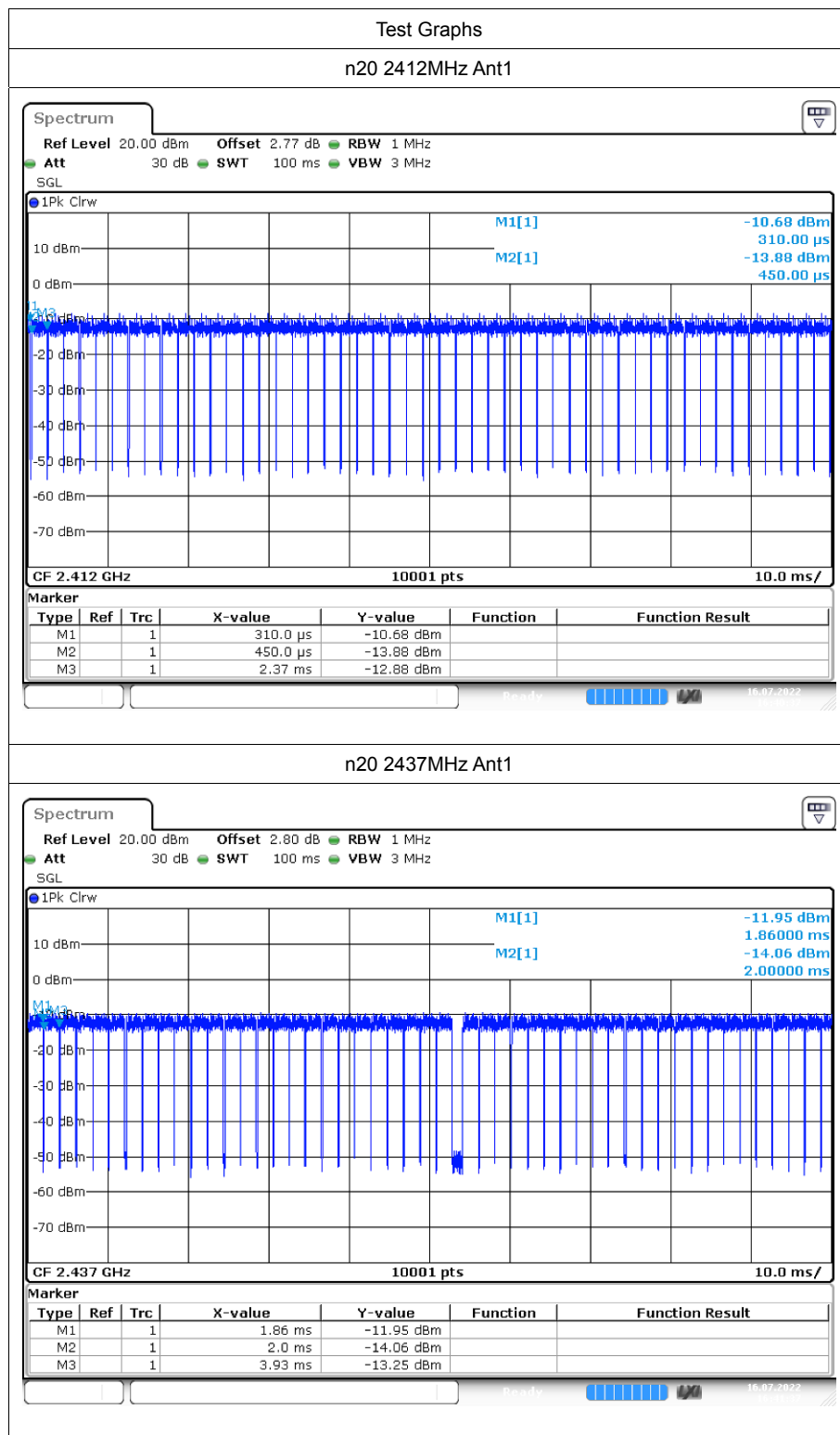
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	1/T (kHz)
b	2412	Ant1	99.36	0.08
b	2437	Ant1	98.91	0.08
b	2462	Ant1	99.24	0.08
g	2412	Ant1	95.72	0.49
g	2437	Ant1	94.36	0.49
g	2462	Ant1	95.58	0.49
n20	2412	Ant1	95.09	0.52
n20	2437	Ant1	93.95	0.52
n20	2462	Ant1	95.98	0.52
n40	2422	Ant1	90.73	1.06
n40	2437	Ant1	91.52	1.06
n40	2452	Ant1	91.31	1.06

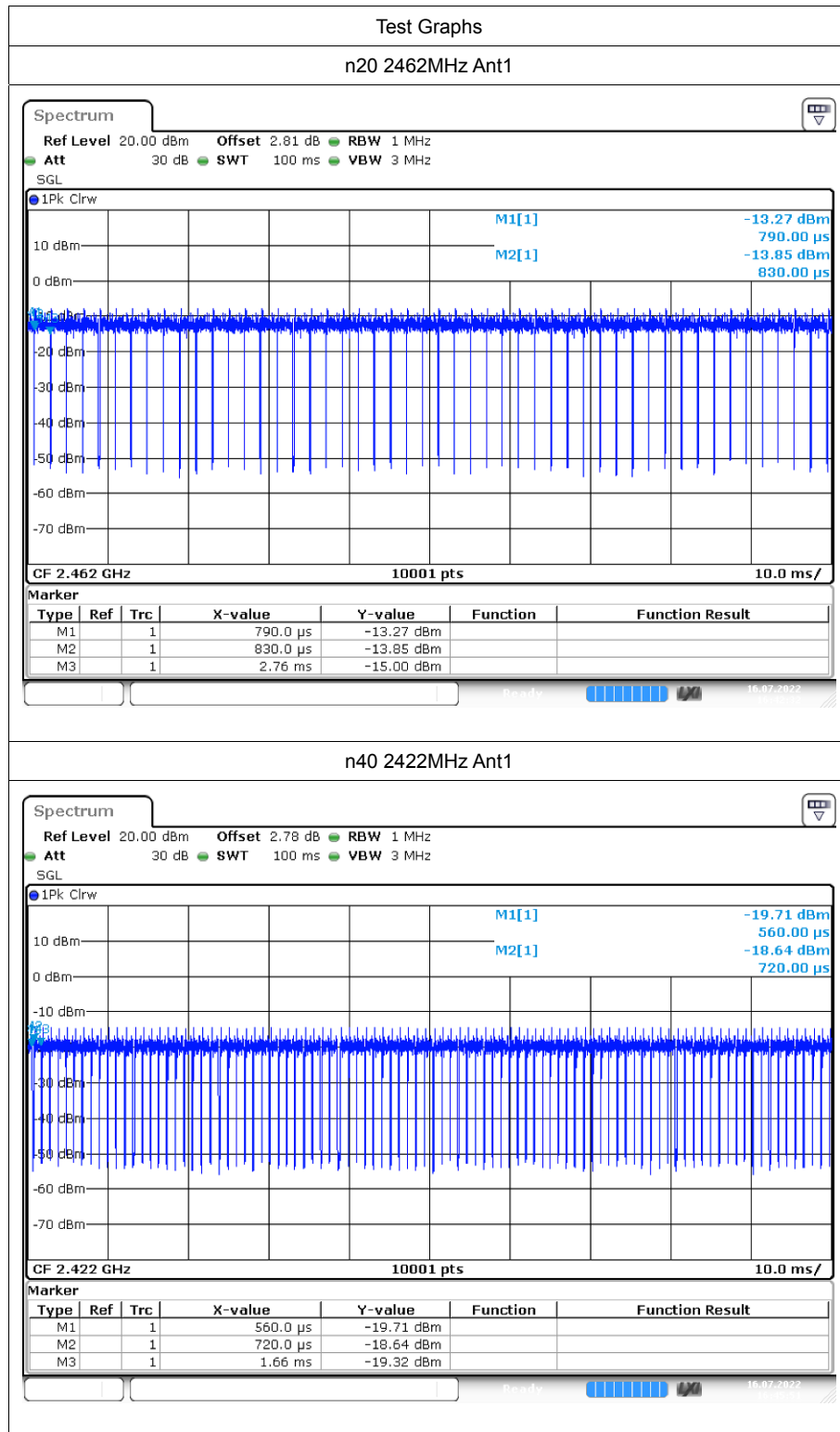
1.2 Test Graphs

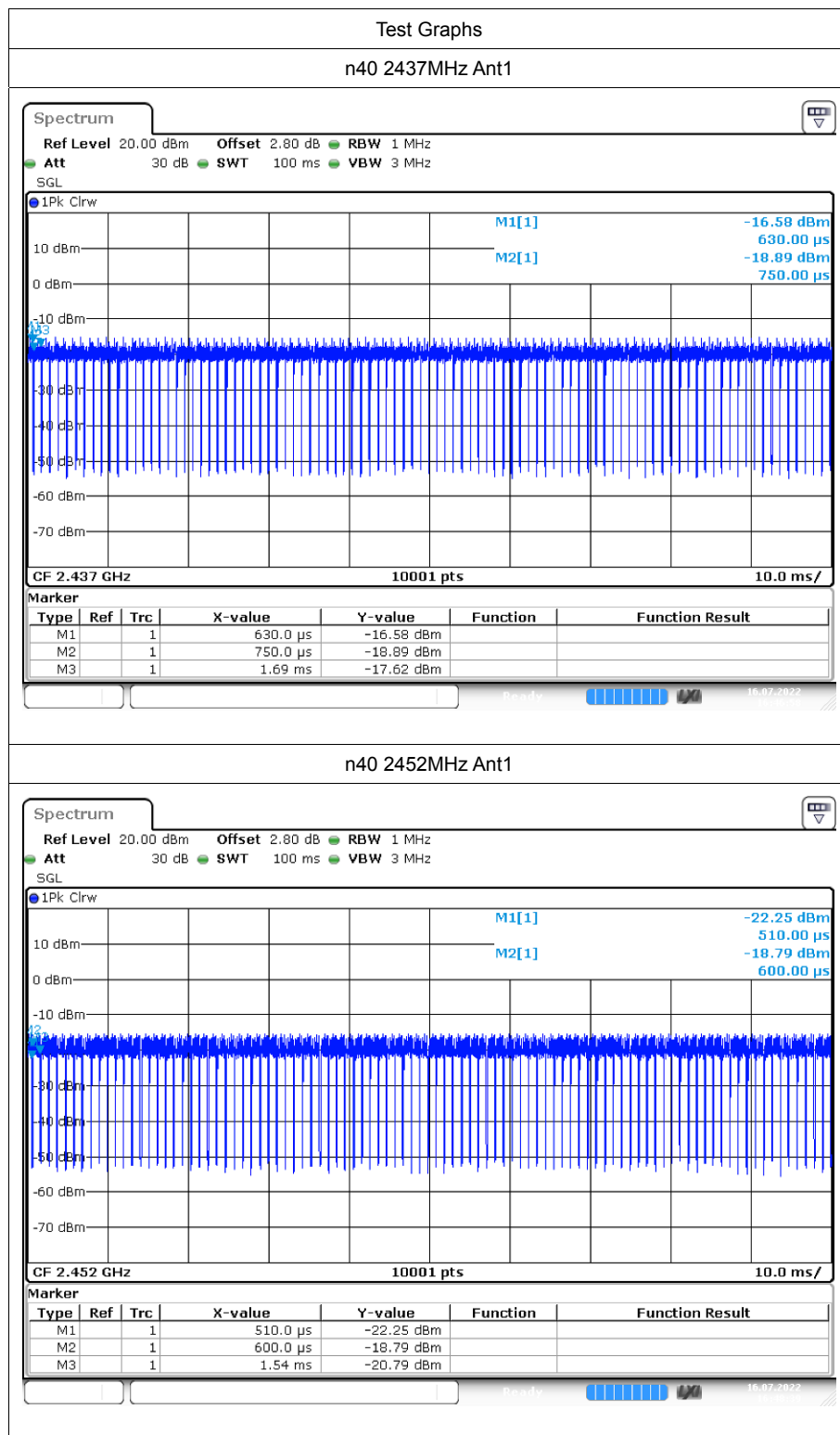














2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant1	2.93	30	Pass
b	2437	Ant1	2.77	30	Pass
b	2462	Ant1	2.7	30	Pass
g	2412	Ant1	2.59	30	Pass
g	2437	Ant1	2.35	30	Pass
g	2462	Ant1	2.33	30	Pass
n20	2412	Ant1	2.54	30	Pass
n20	2437	Ant1	2.3	30	Pass
n20	2462	Ant1	2.38	30	Pass
n40	2422	Ant1	2.28	30	Pass
n40	2437	Ant1	2.27	30	Pass
n40	2452	Ant1	2.14	30	Pass

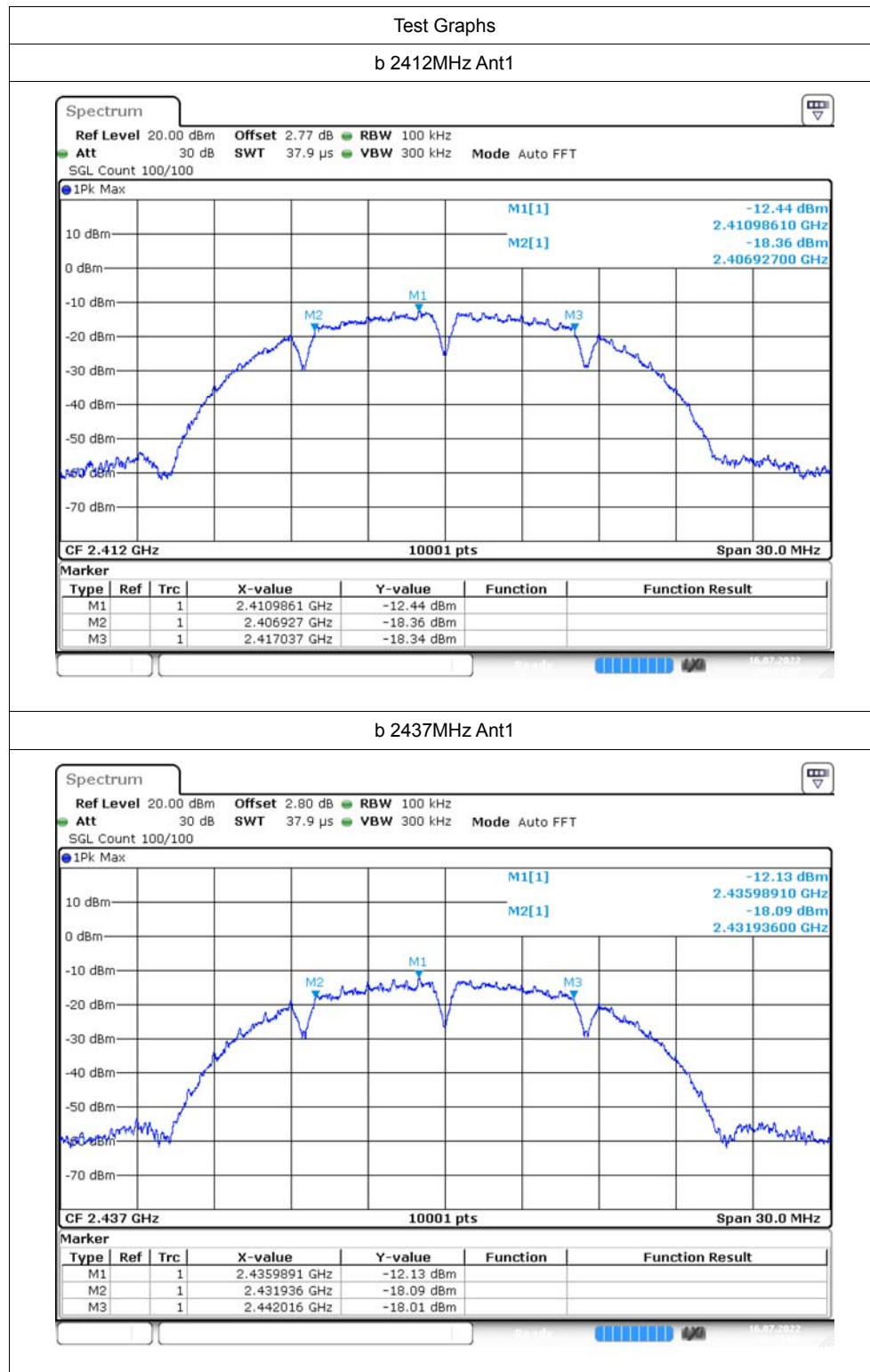


3 -6dB Bandwidth

3.1 Test Result

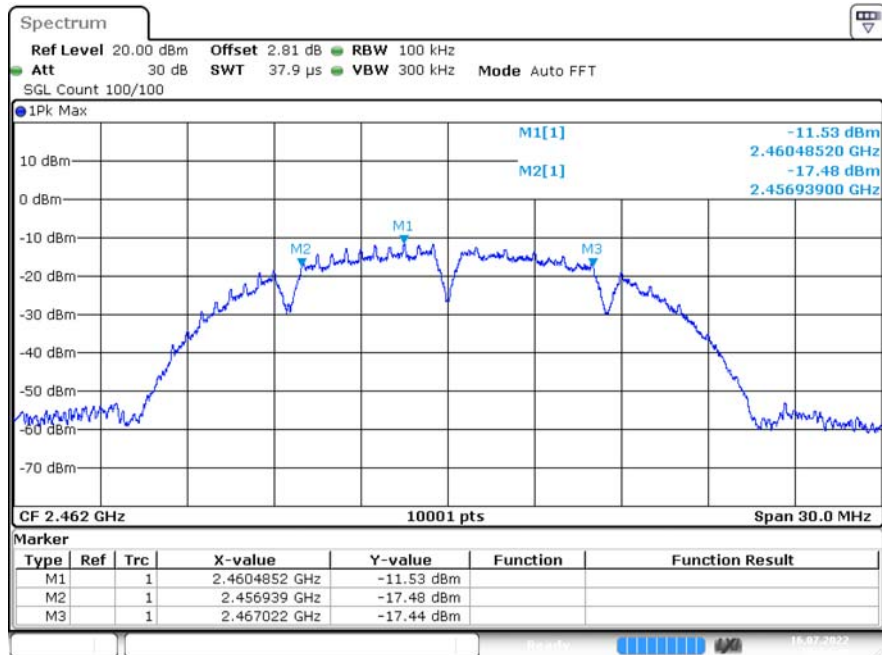
Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	10.11	0.5	Pass
b	2437	Ant1	10.08	0.5	Pass
b	2462	Ant1	10.083	0.5	Pass
g	2412	Ant1	16.356	0.5	Pass
g	2437	Ant1	16.323	0.5	Pass
g	2462	Ant1	16.377	0.5	Pass
n20	2412	Ant1	17.583	0.5	Pass
n20	2437	Ant1	17.766	0.5	Pass
n20	2462	Ant1	17.043	0.5	Pass
n40	2422	Ant1	35.664	0.5	Pass
n40	2437	Ant1	36.282	0.5	Pass
n40	2452	Ant1	35.91	0.5	Pass

3.2 Test Graphs

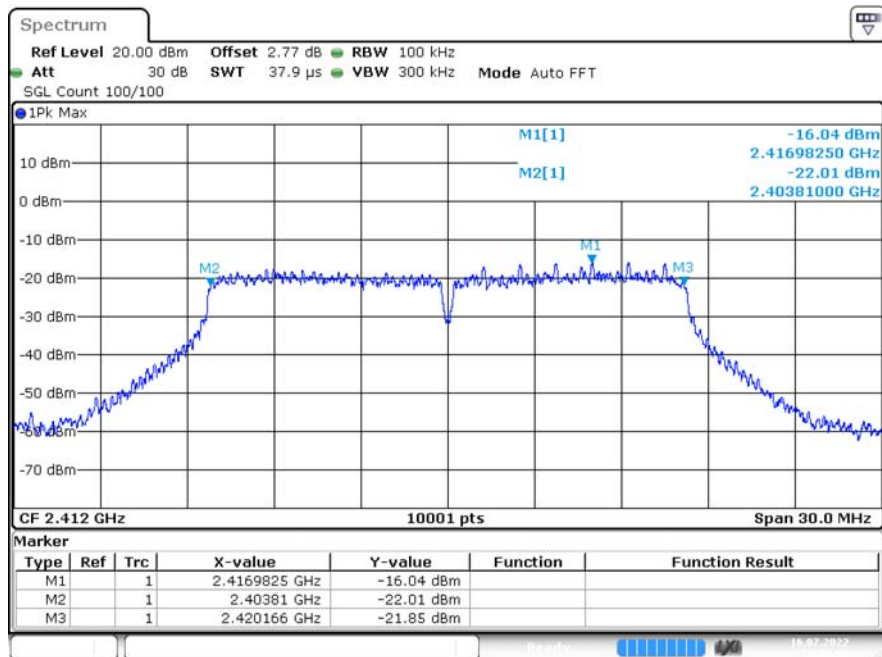




b 2462MHz Ant1

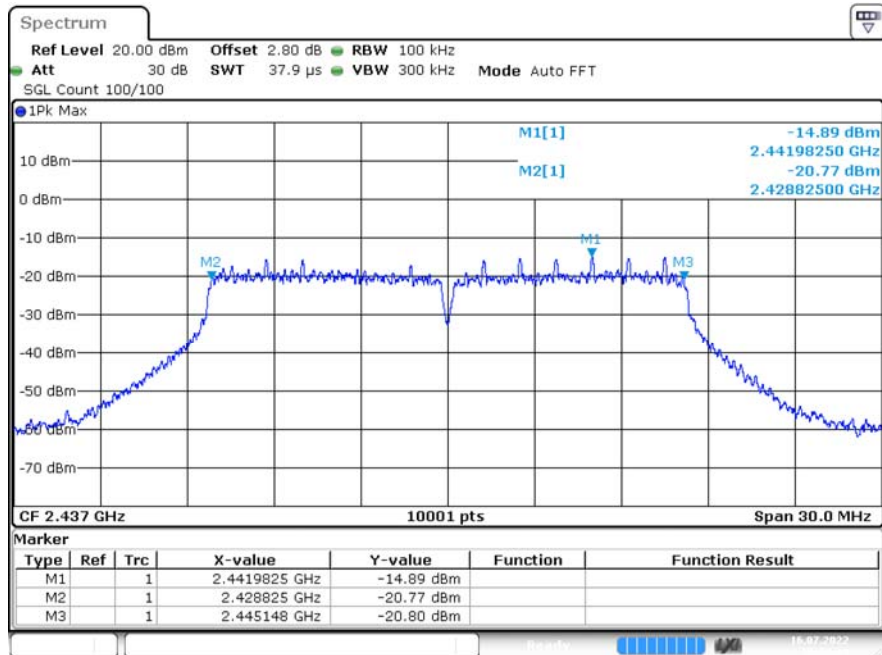


g 2412MHz Ant1

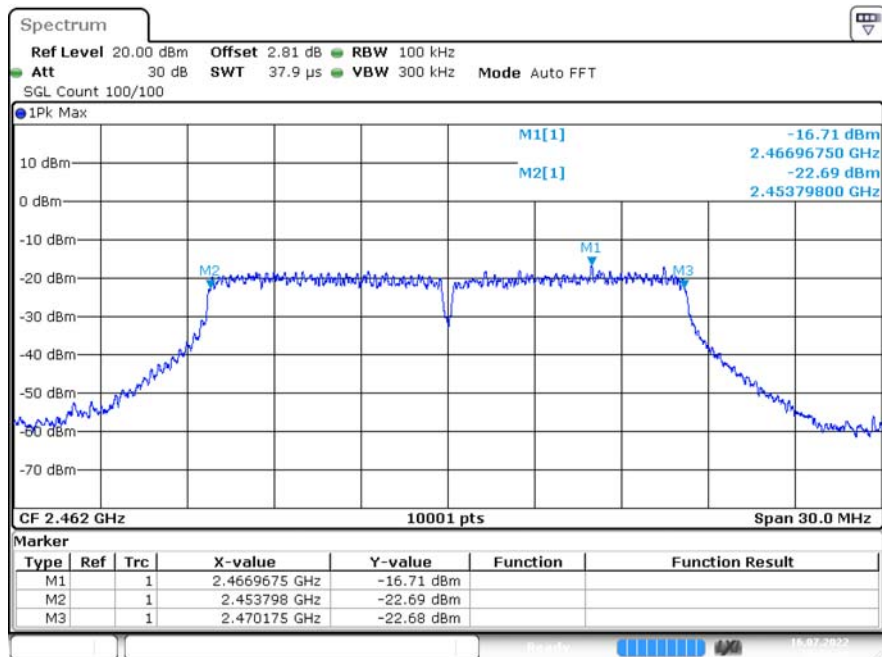




g 2437MHz Ant1

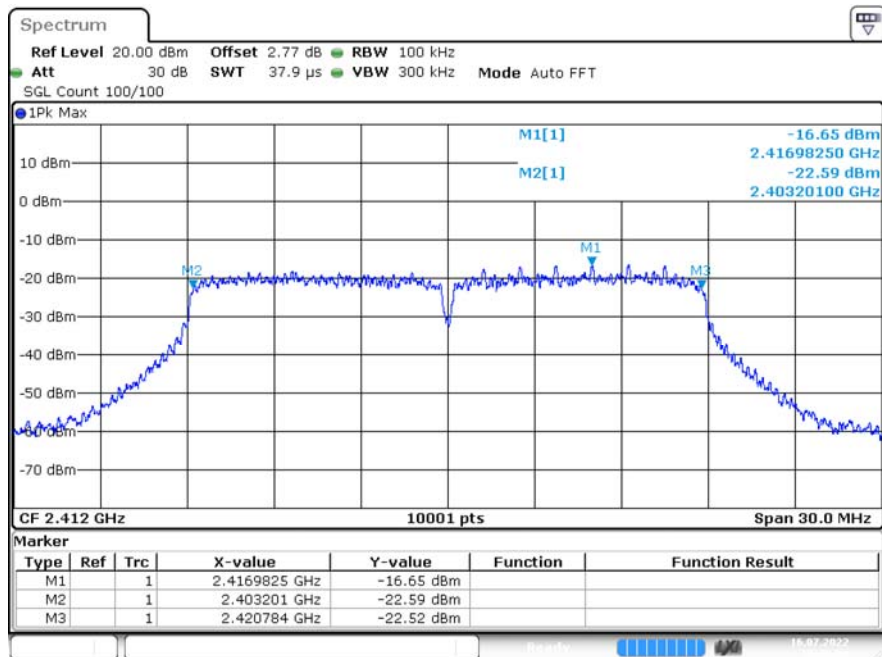


g 2462MHz Ant1

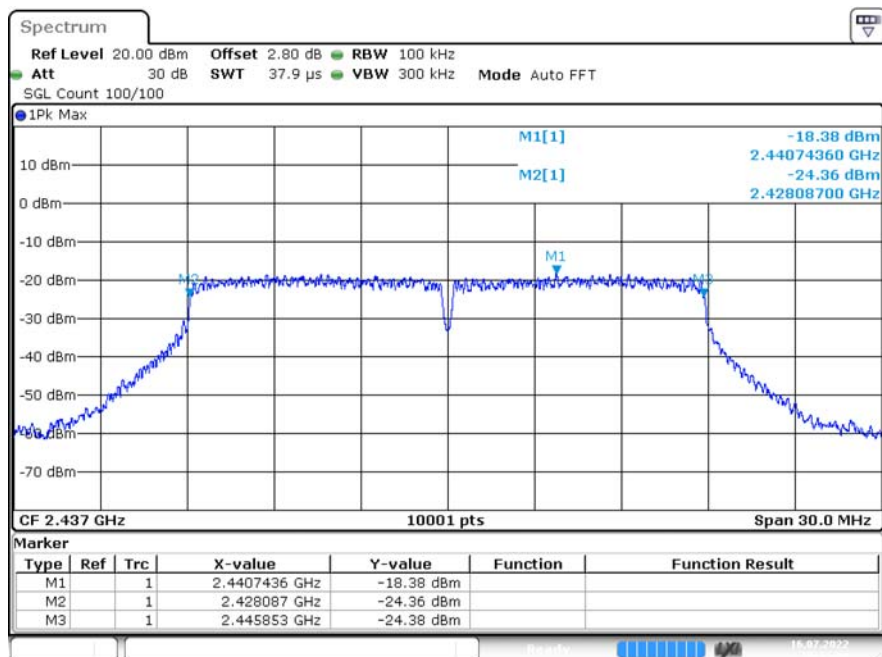




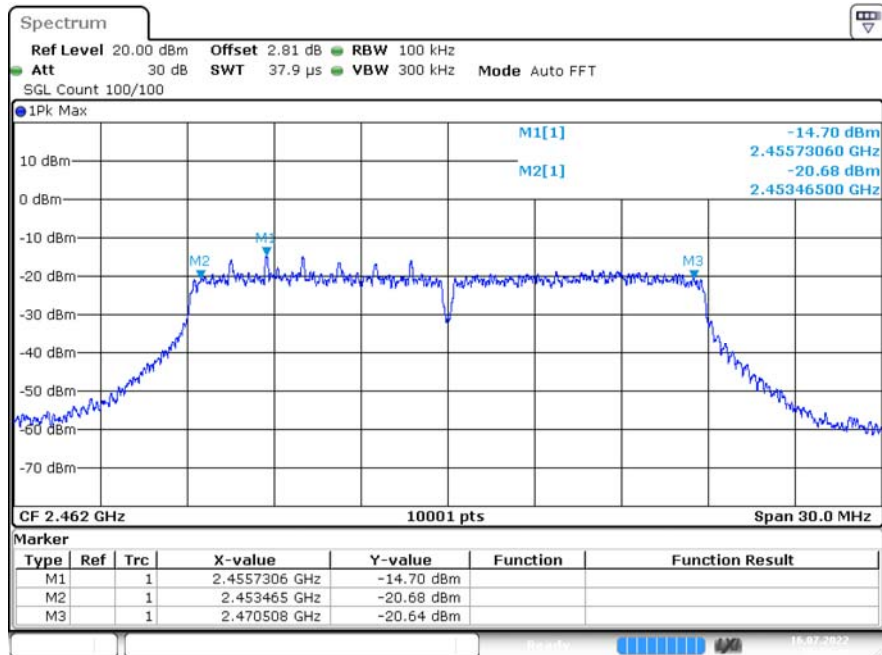
n20 2412MHz Ant1



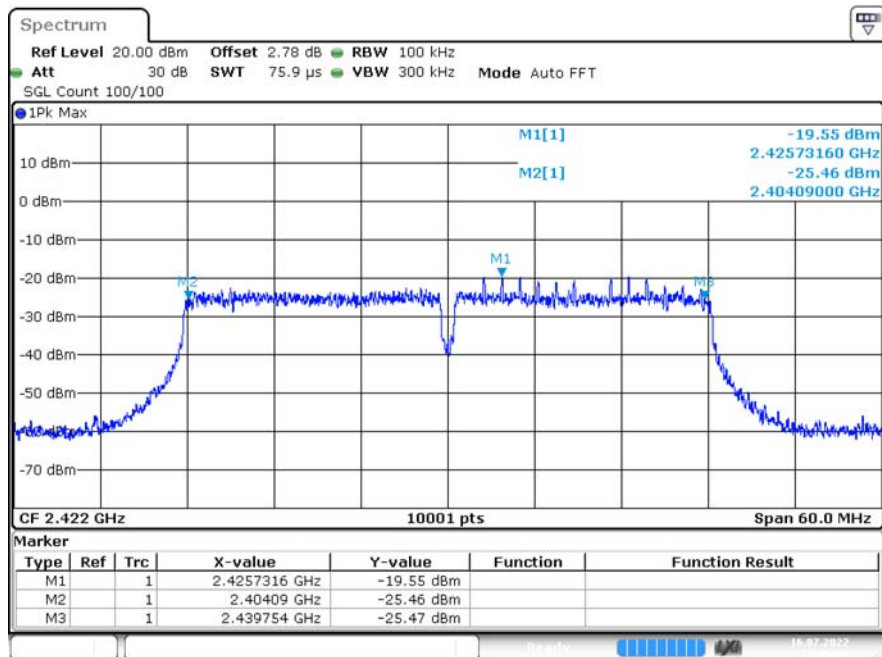
n20 2437MHz Ant1

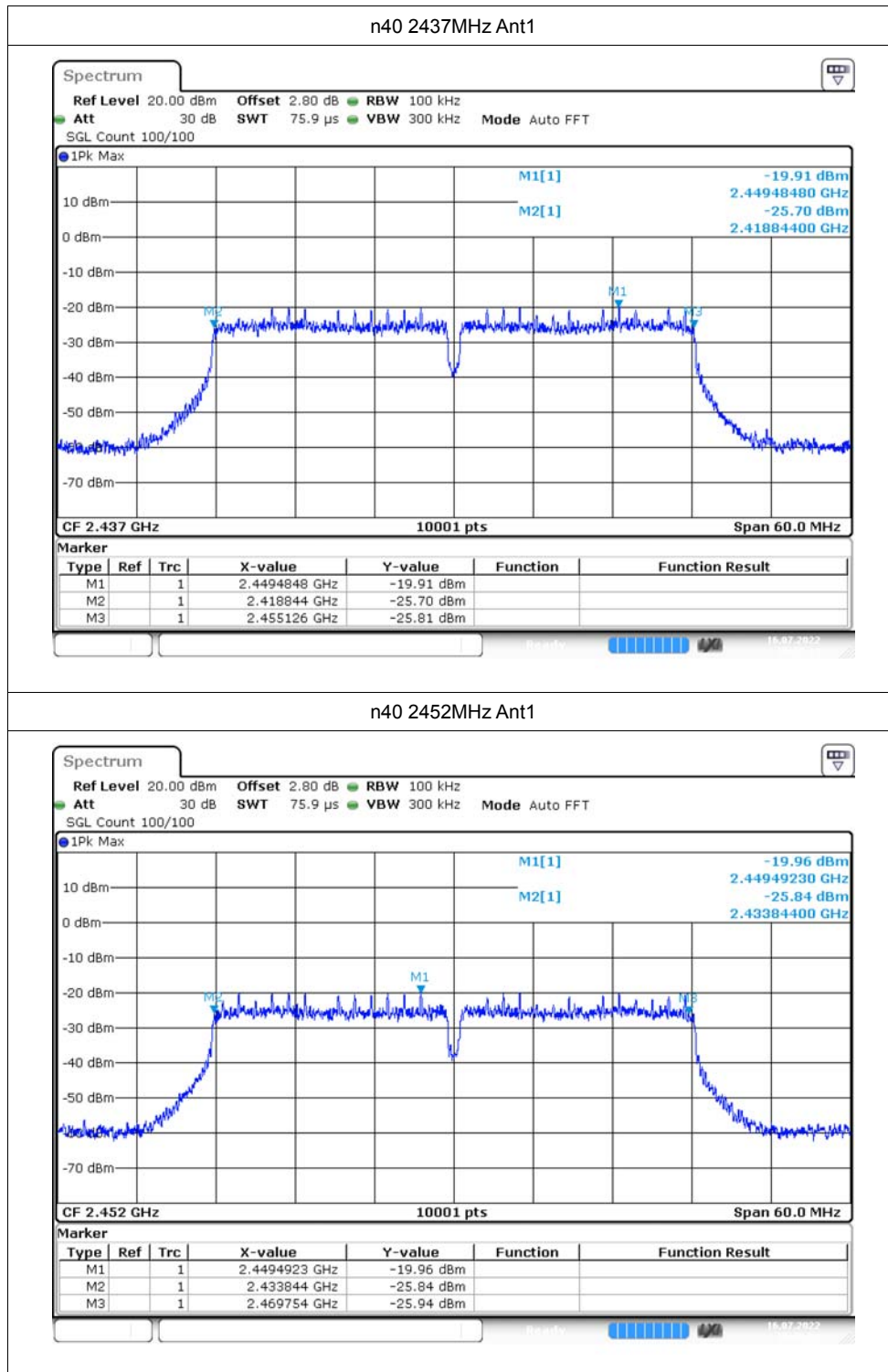


n20 2462MHz Ant1



n40 2422MHz Ant1





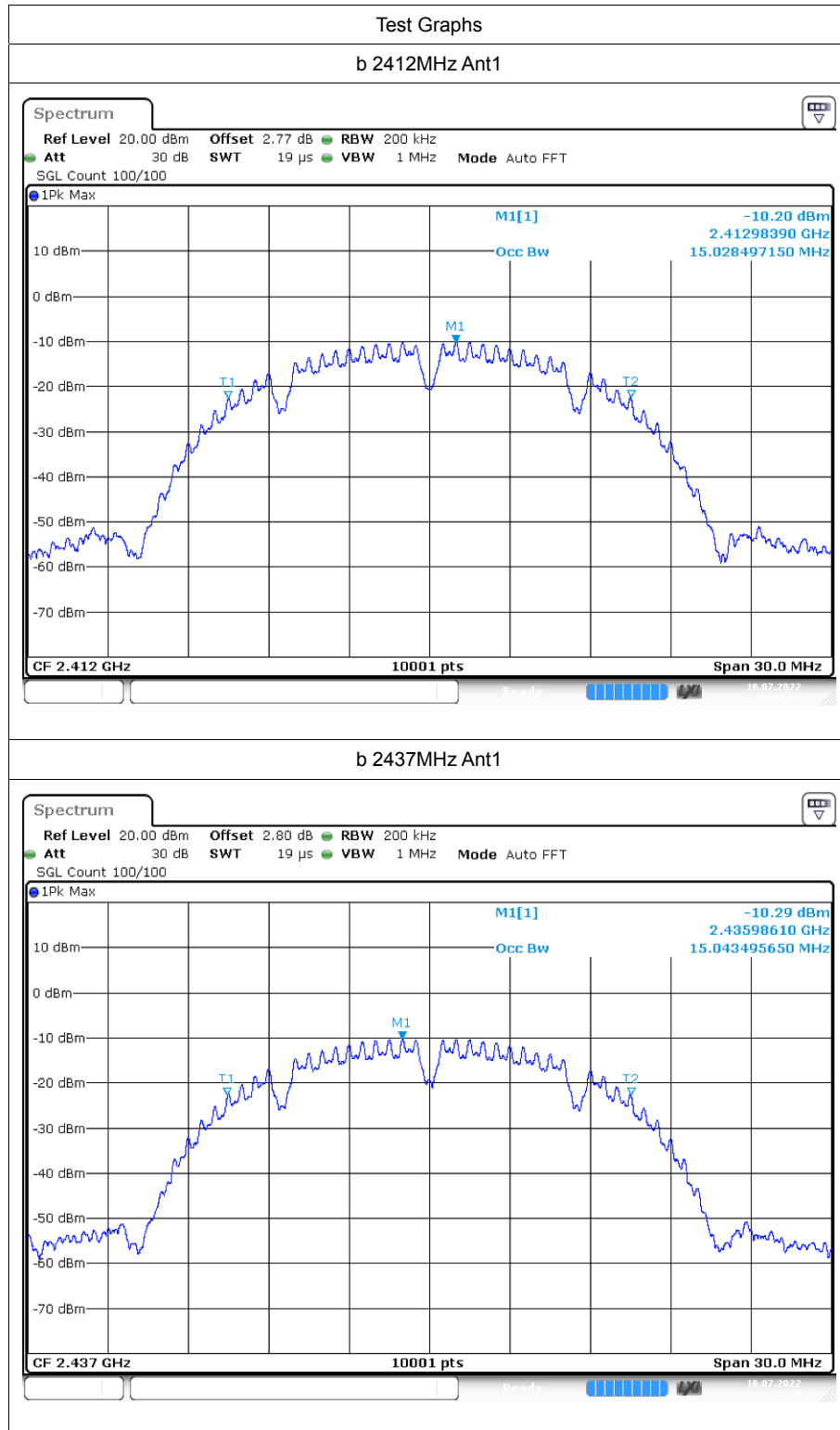


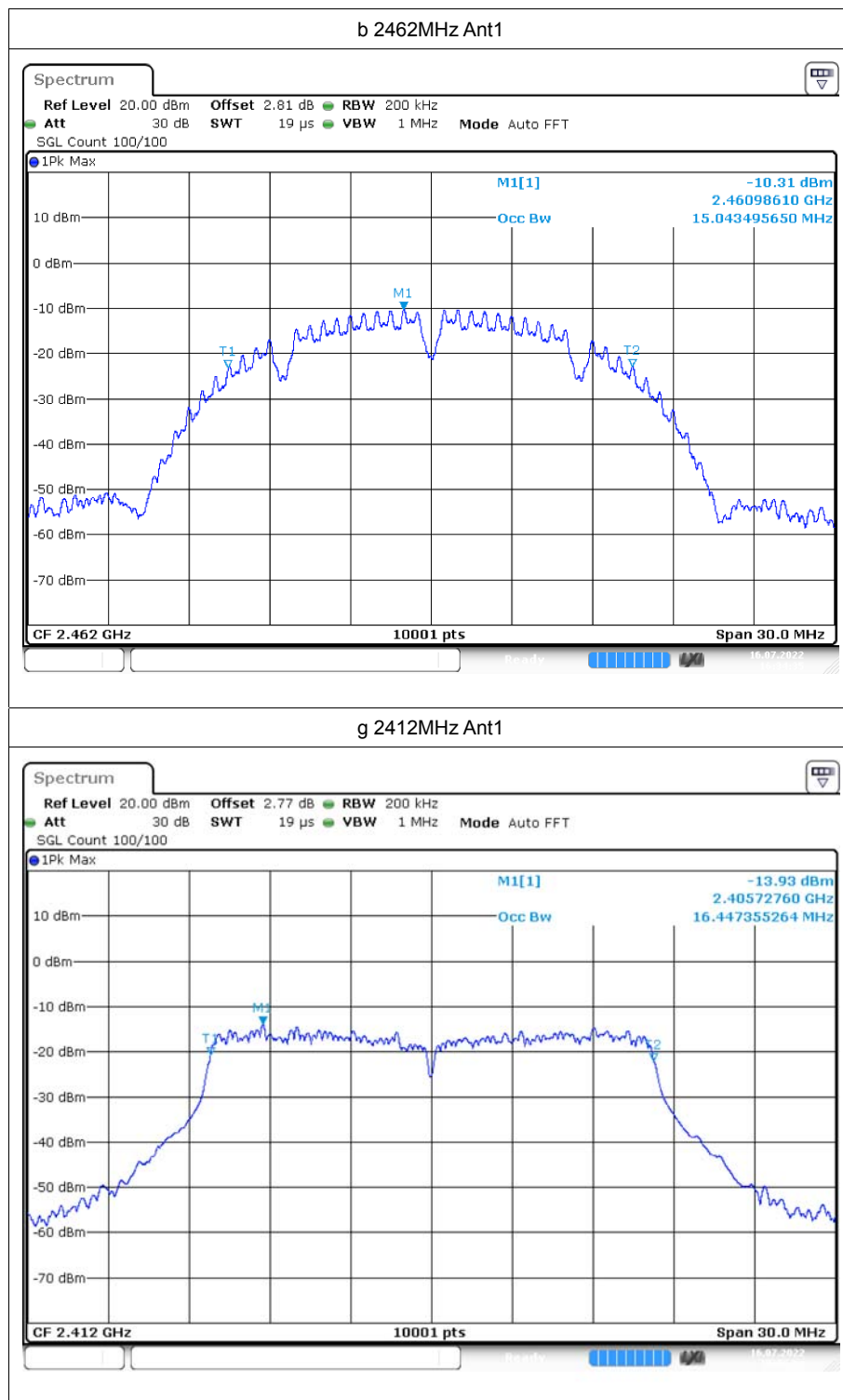
4 Occupied Channel Bandwidth

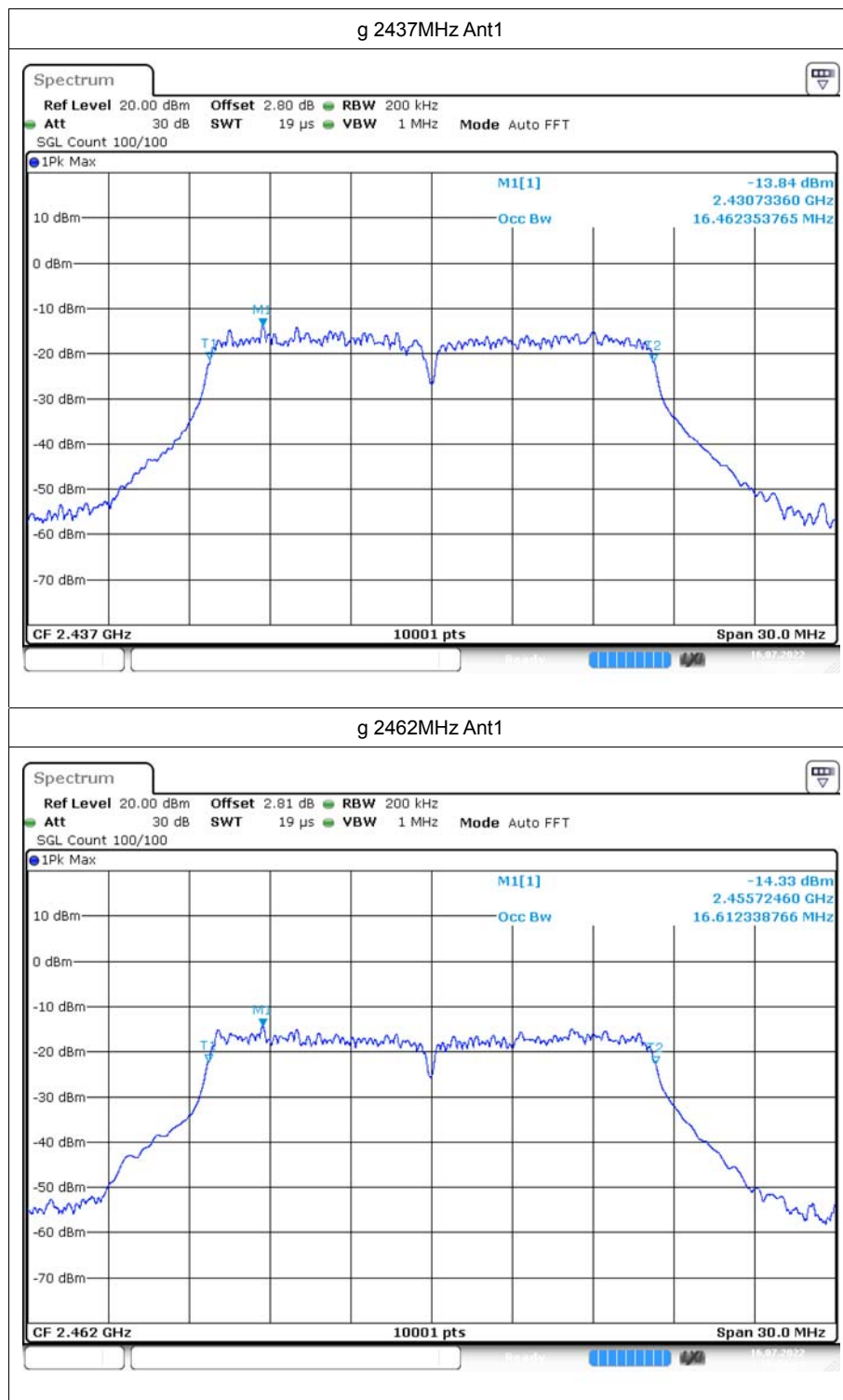
4.1 Test Result

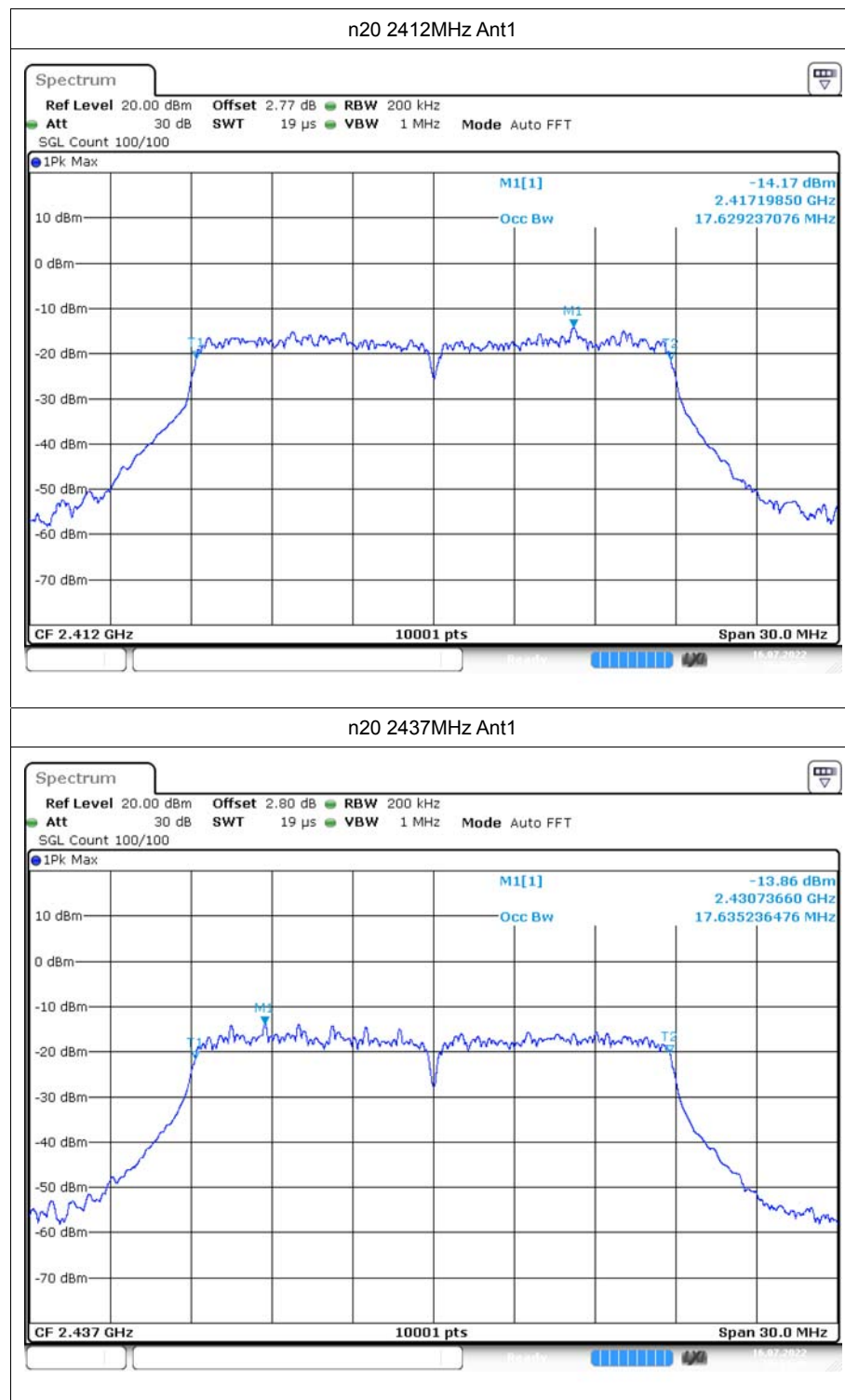
Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
b	2412	Ant1	15.028
b	2437	Ant1	15.043
b	2462	Ant1	15.043
g	2412	Ant1	16.447
g	2437	Ant1	16.462
g	2462	Ant1	16.612
n20	2412	Ant1	17.629
n20	2437	Ant1	17.635
n20	2462	Ant1	17.719
n40	2422	Ant1	36.206
n40	2437	Ant1	36.248
n40	2452	Ant1	36.596

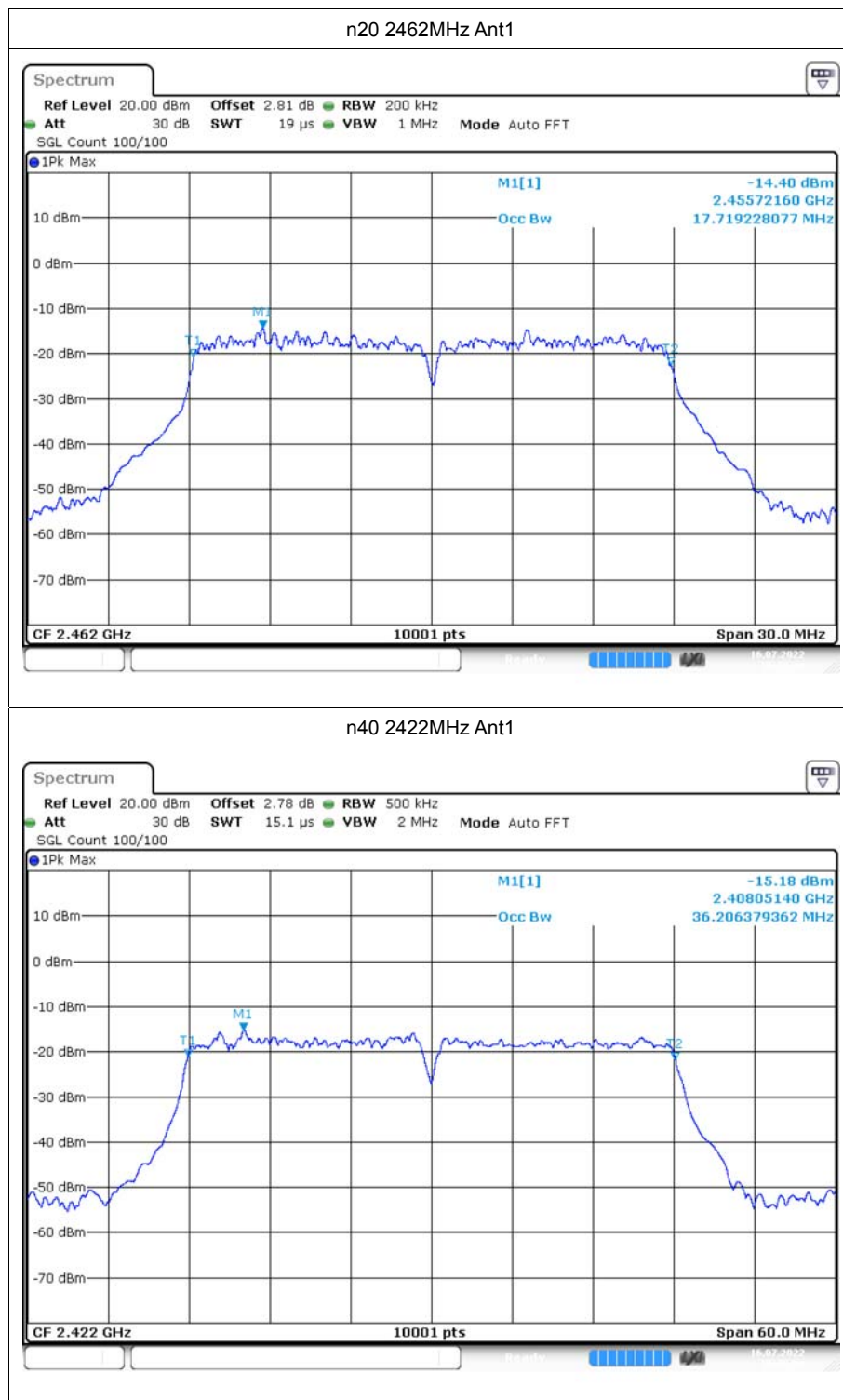
4.2 Test Graphs

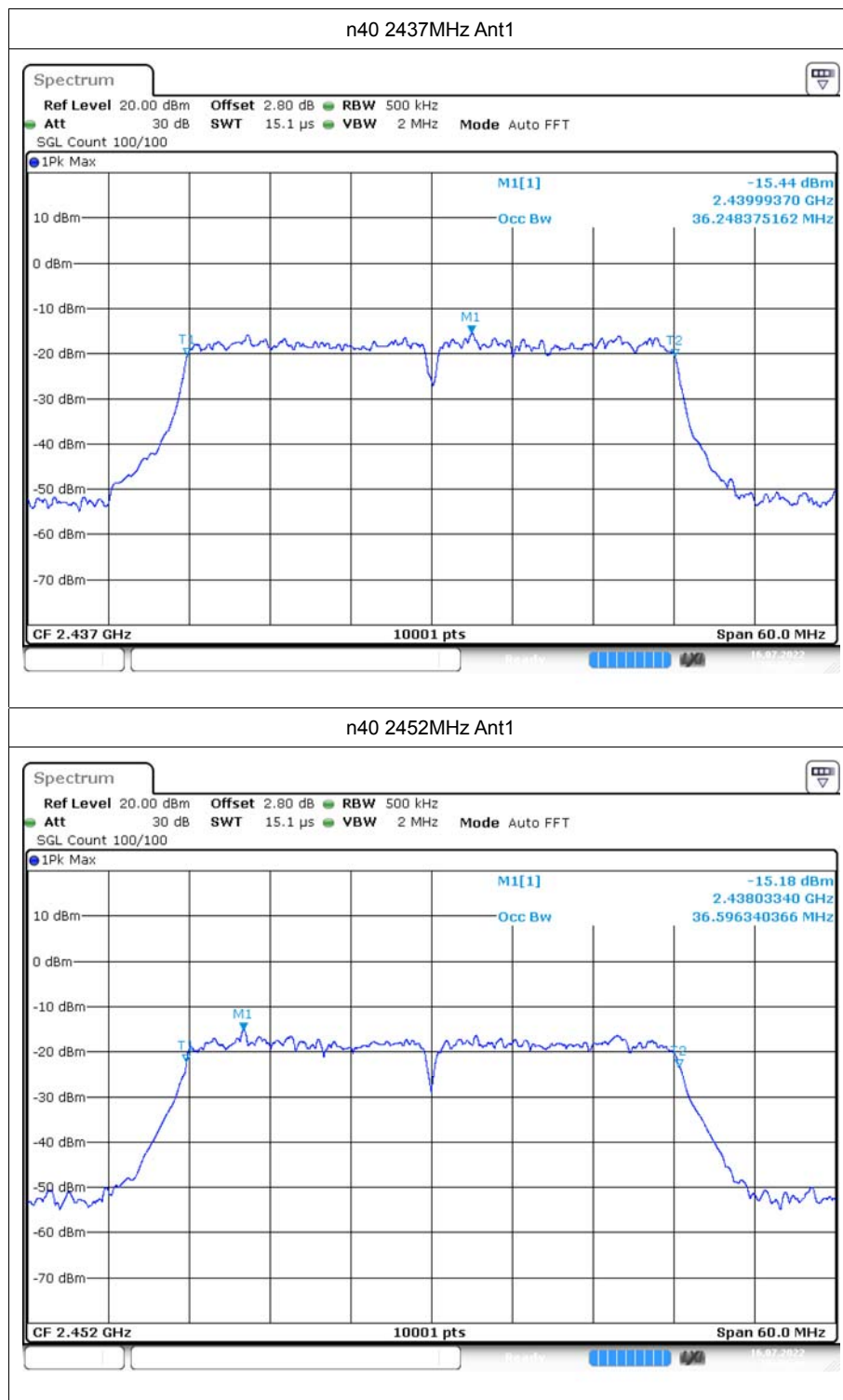










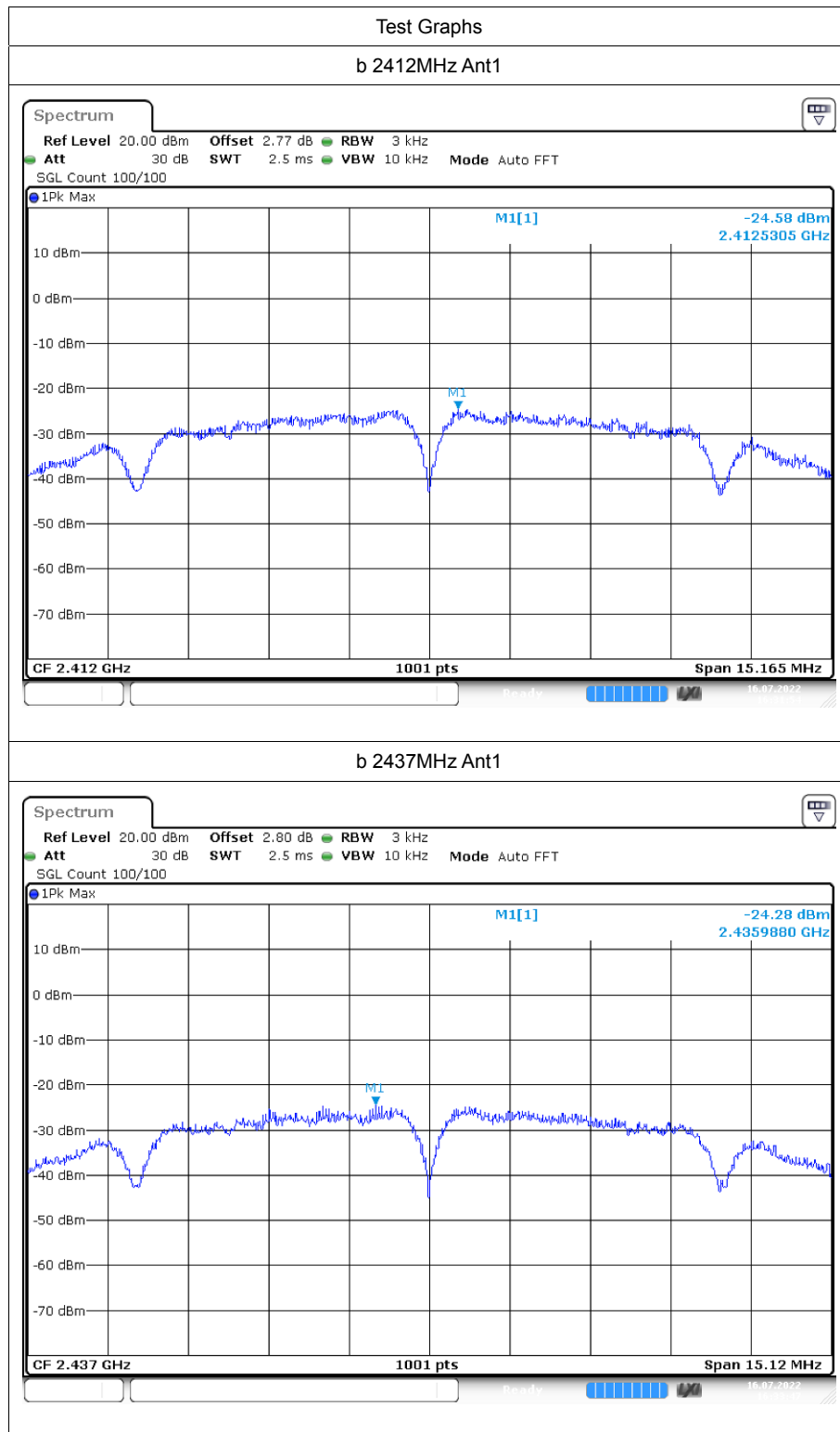


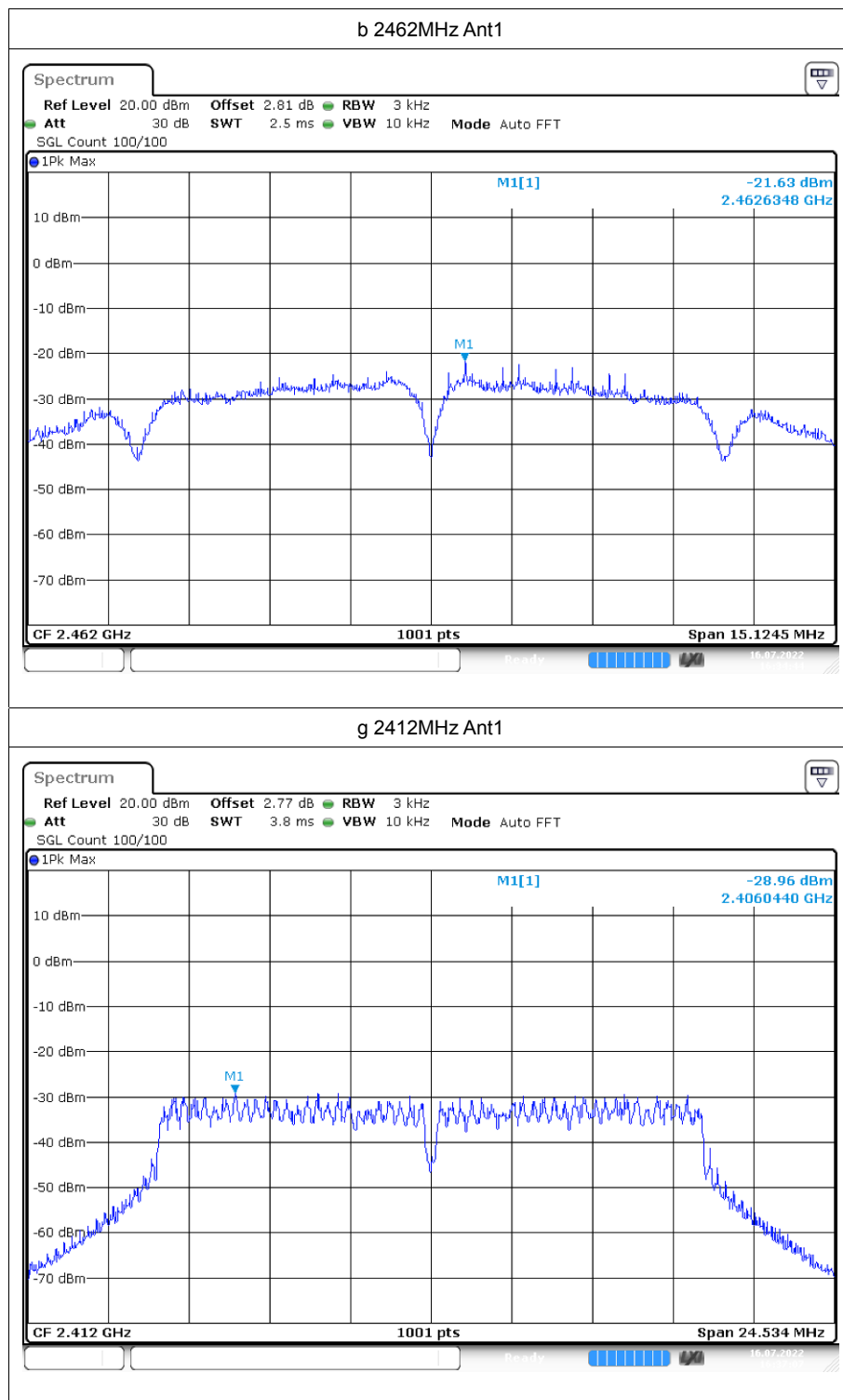
5 Maximum Power Spectral Density Level

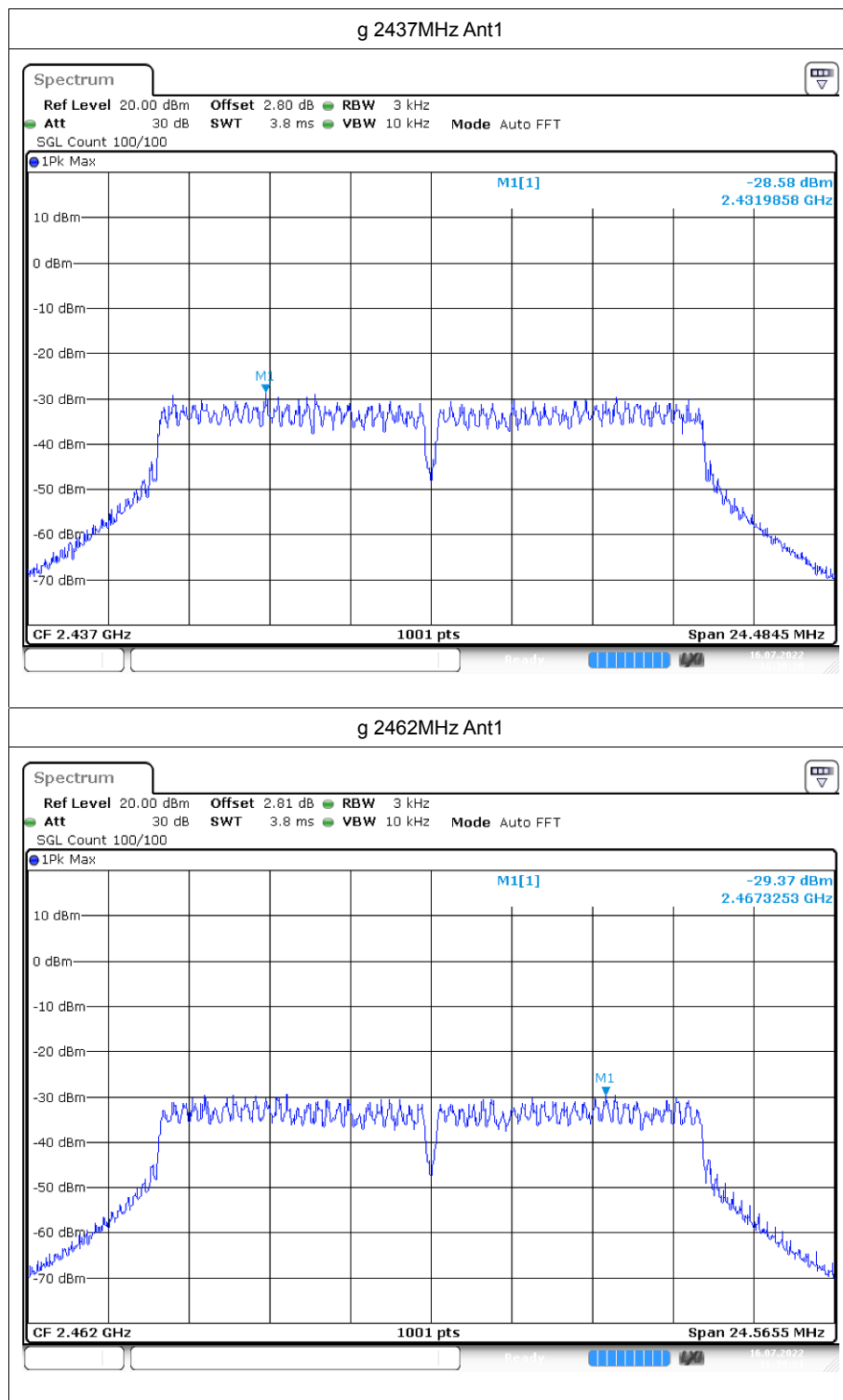
5.1 Test Result

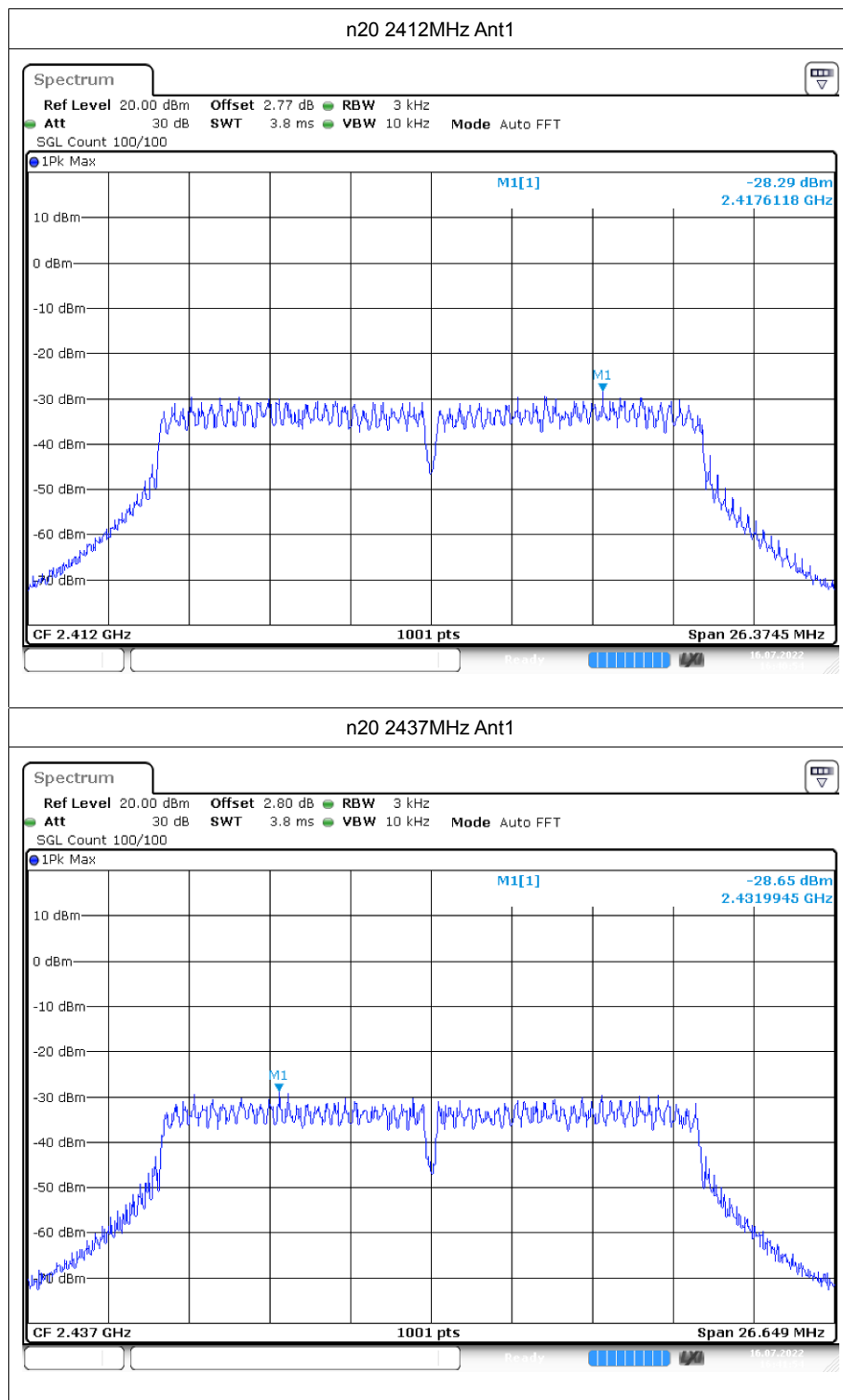
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
b	2412	Ant1	-24.58	≤ 8	Pass
b	2437	Ant1	-24.28	≤ 8	Pass
b	2462	Ant1	-21.63	≤ 8	Pass
g	2412	Ant1	-28.96	≤ 8	Pass
g	2437	Ant1	-28.58	≤ 8	Pass
g	2462	Ant1	-29.37	≤ 8	Pass
n20	2412	Ant1	-28.29	≤ 8	Pass
n20	2437	Ant1	-28.65	≤ 8	Pass
n20	2462	Ant1	-28.49	≤ 8	Pass
n40	2422	Ant1	-33.48	≤ 8	Pass
n40	2437	Ant1	-32.78	≤ 8	Pass
n40	2452	Ant1	-33.52	≤ 8	Pass

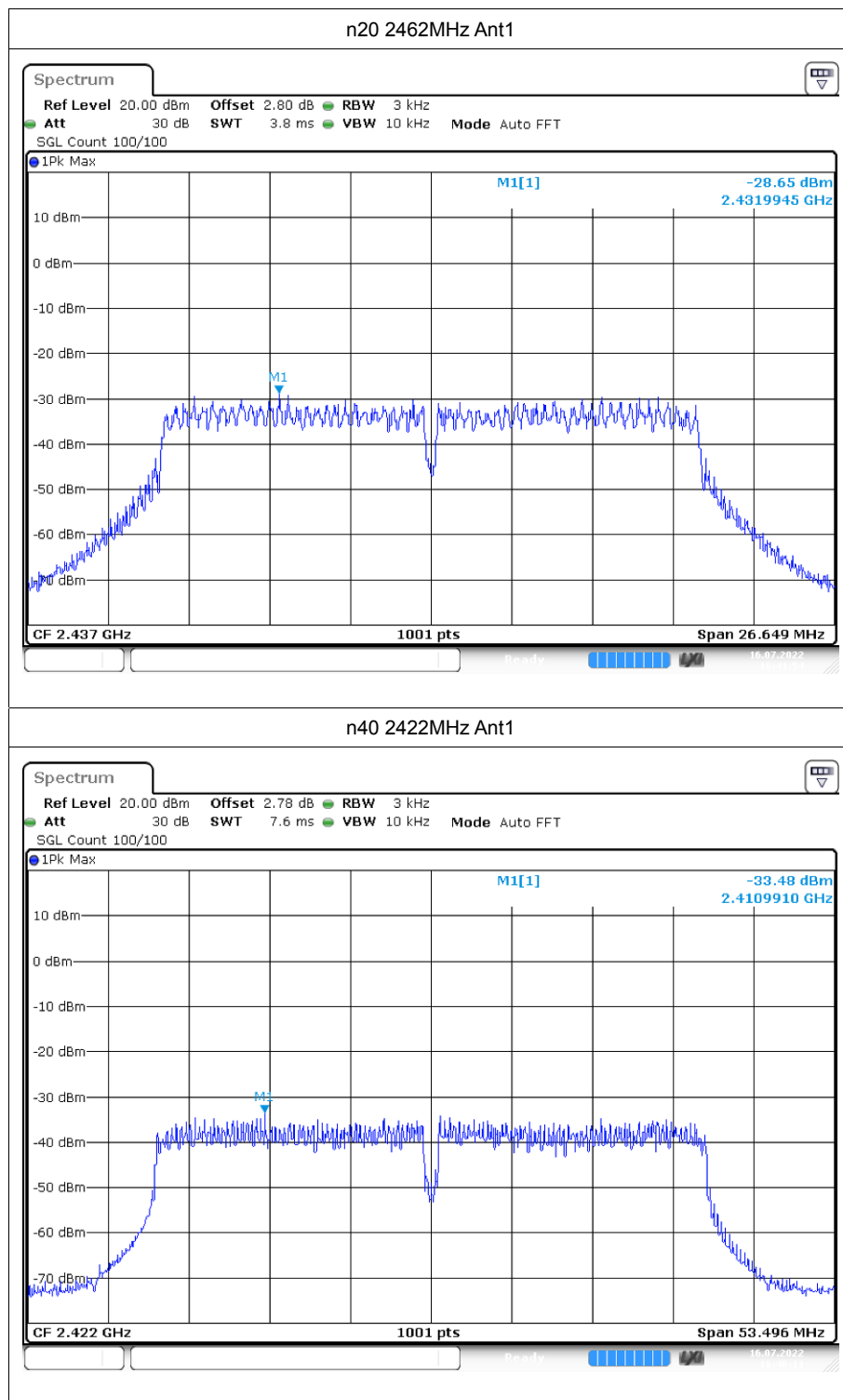
5.2 Test Graphs

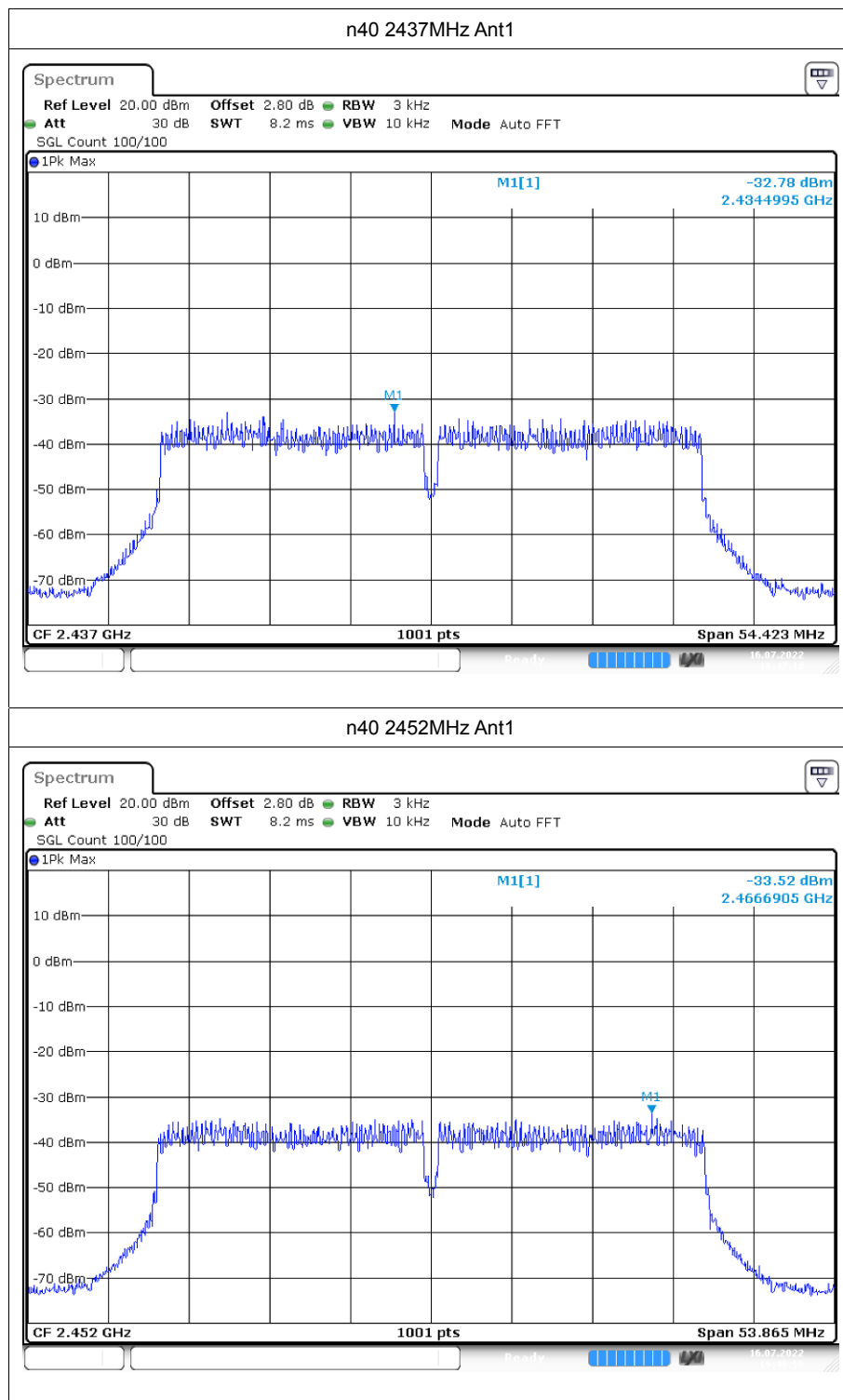












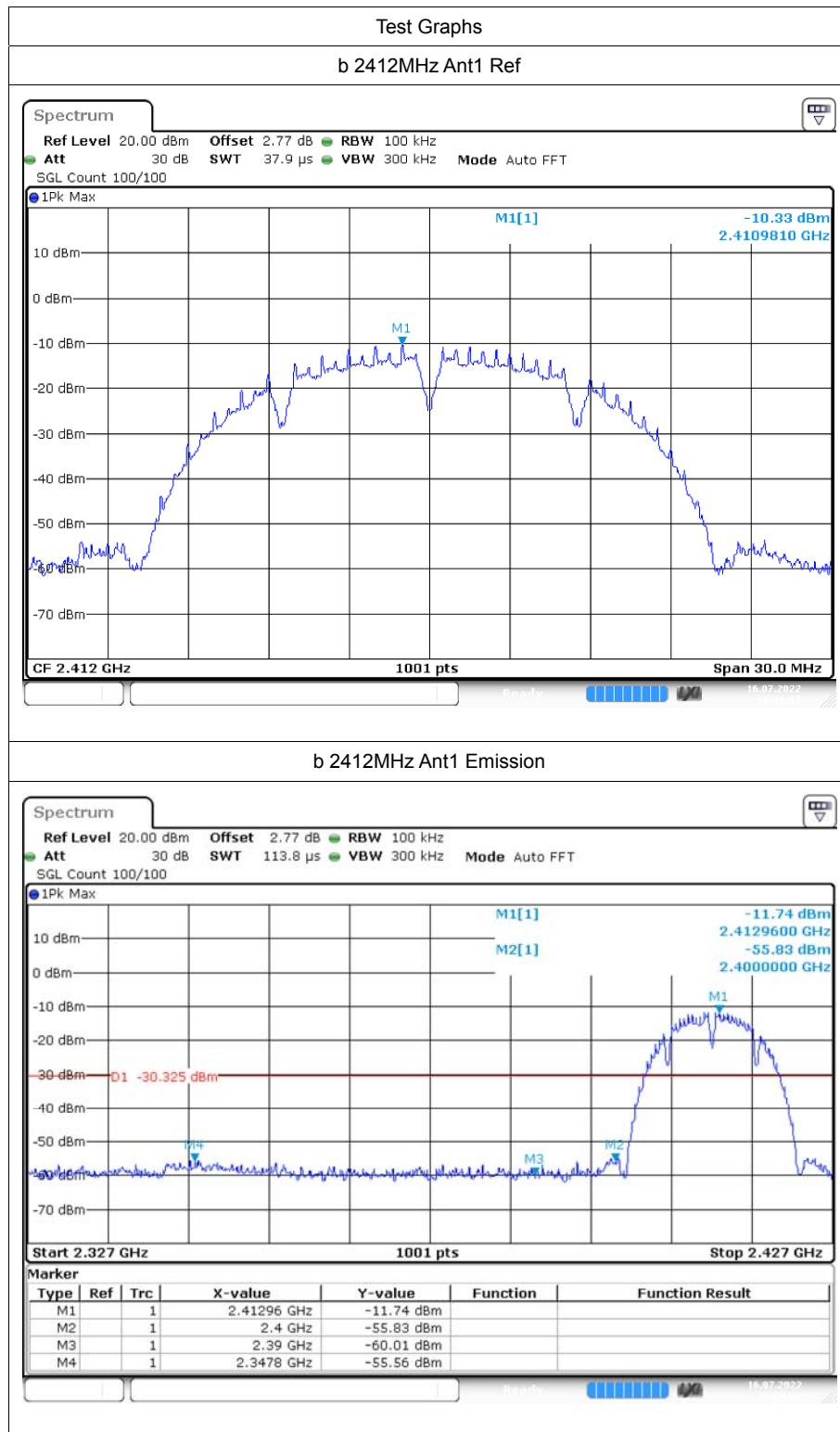


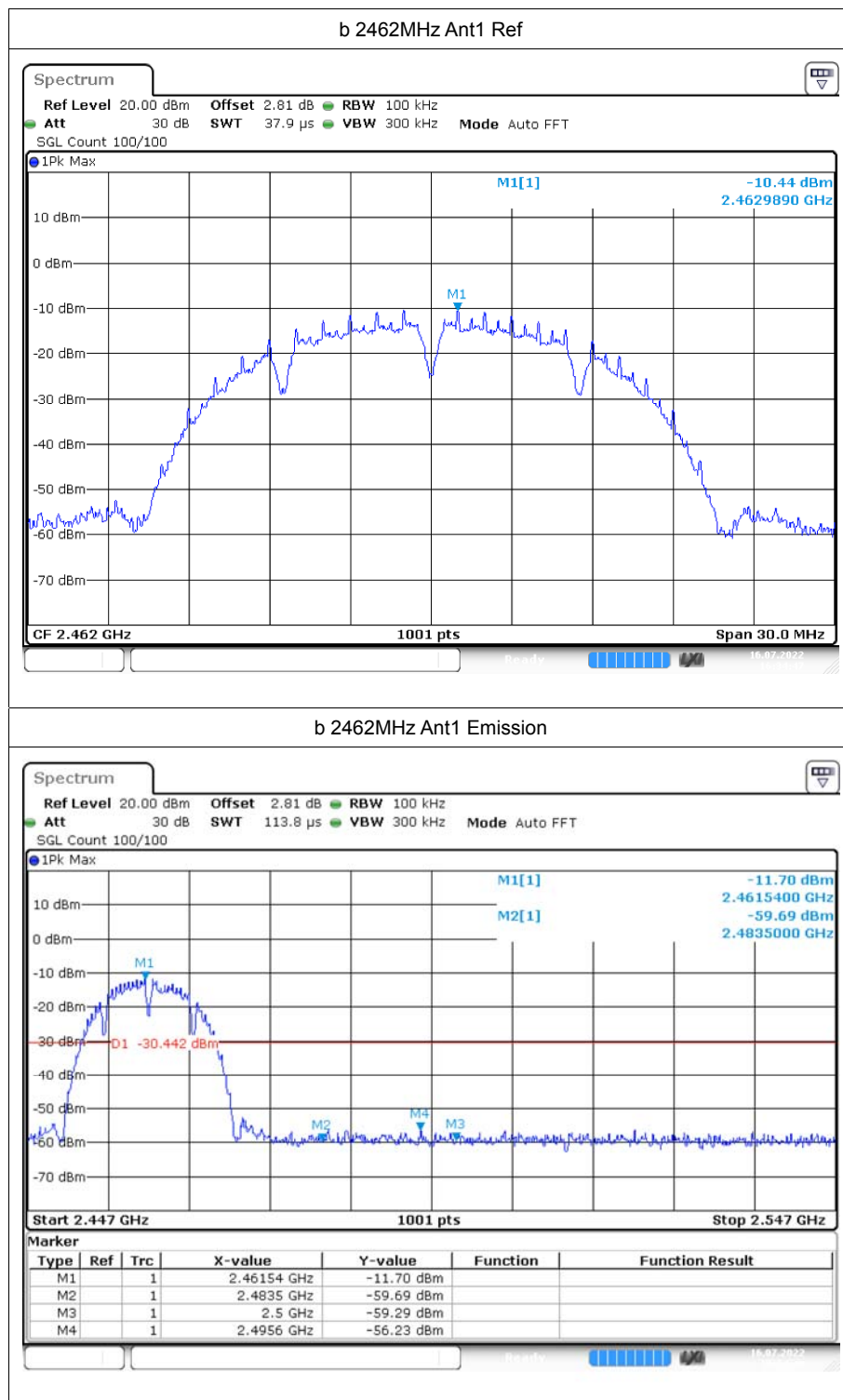
6 Band Edge

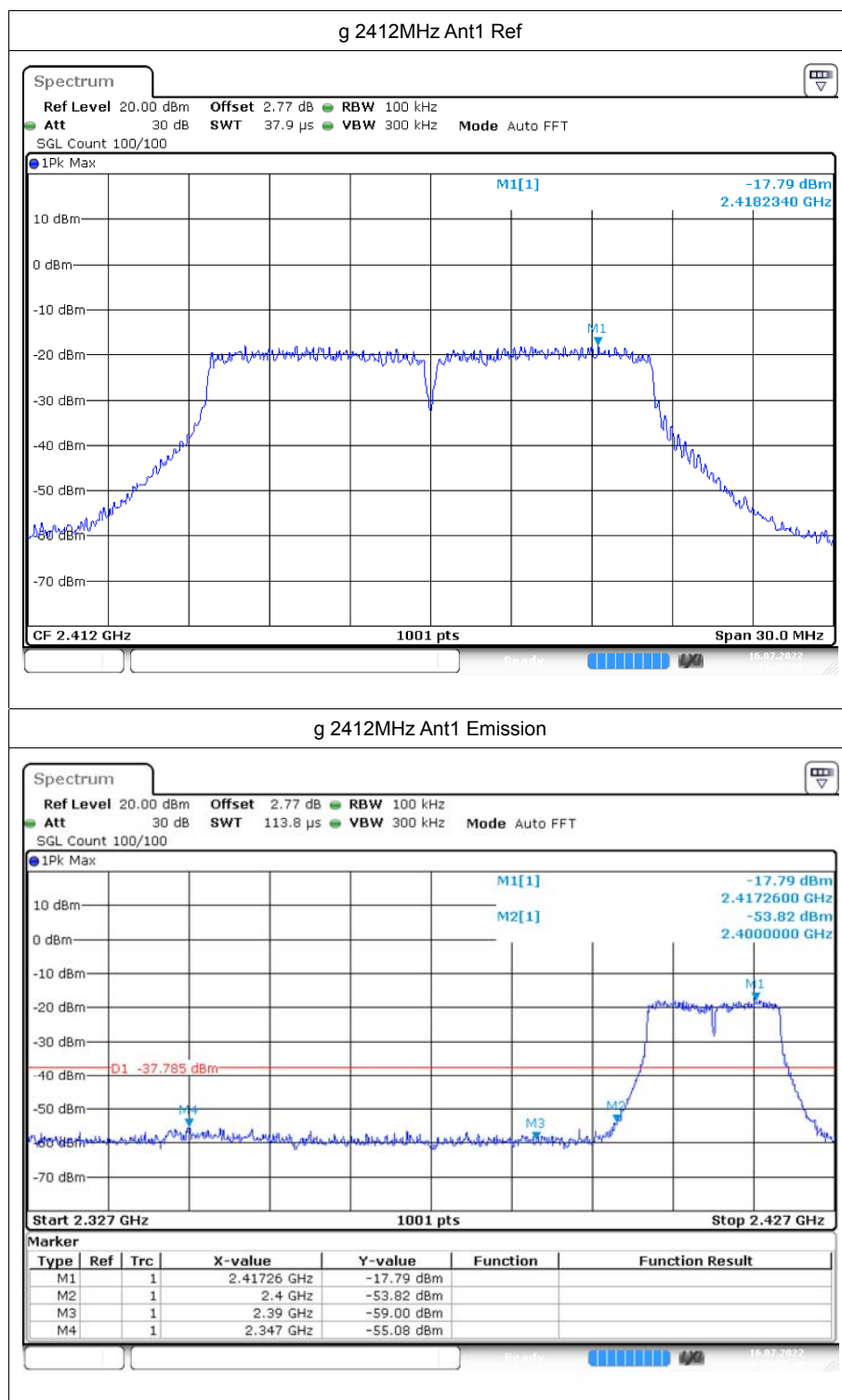
6.1 Test Result

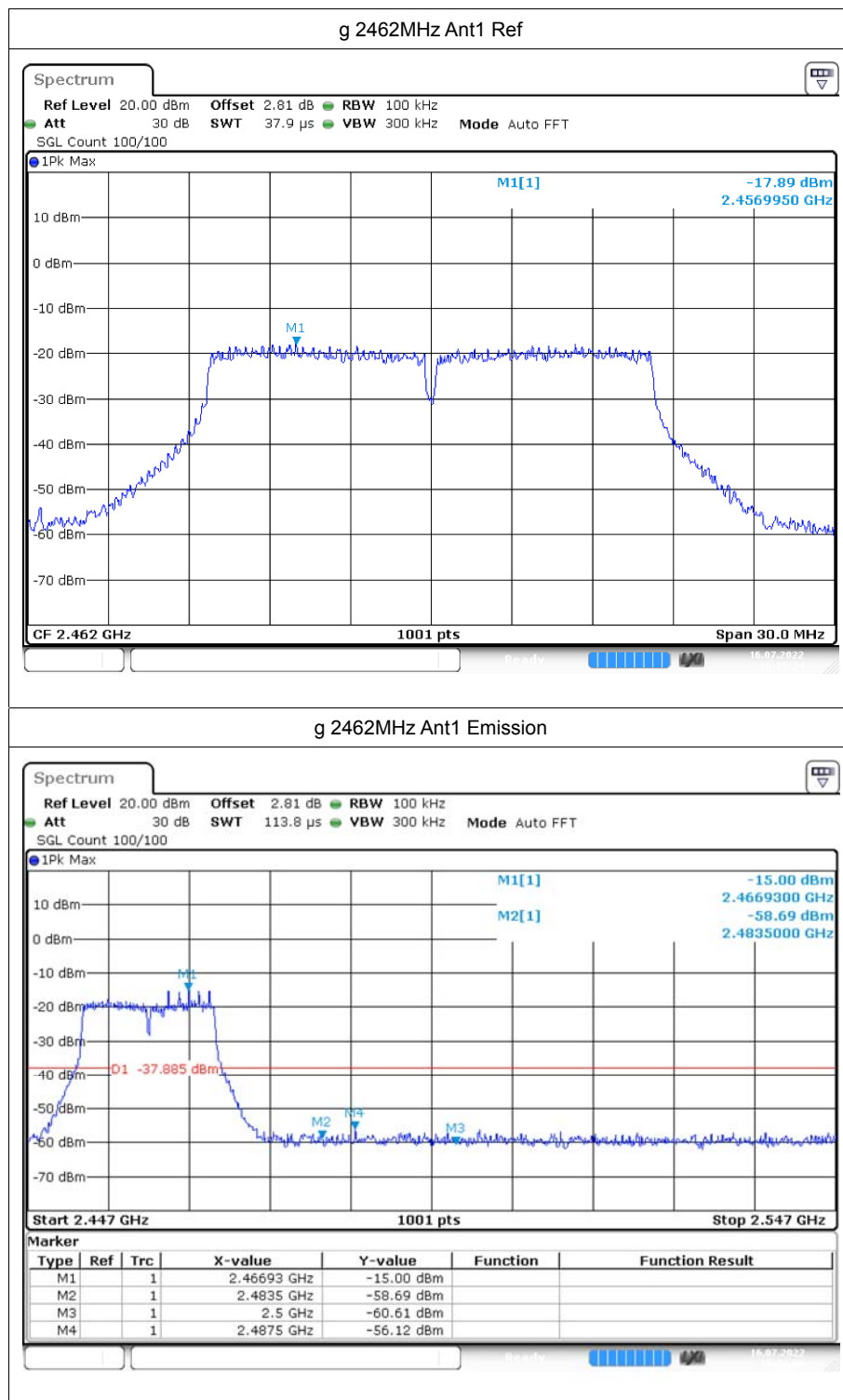
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-45.22	-20	-45.22
b	2462	Ant1	-45.78	-20	Pass
g	2412	Ant1	-37.28	-20	Pass
g	2462	Ant1	-38.23	-20	Pass
n20	2412	Ant1	-40.93	-20	Pass
n20	2462	Ant1	-40.64	-20	Pass
n40	2422	Ant1	-36.83	-20	Pass
n40	2452	Ant1	-35.42	-20	Pass

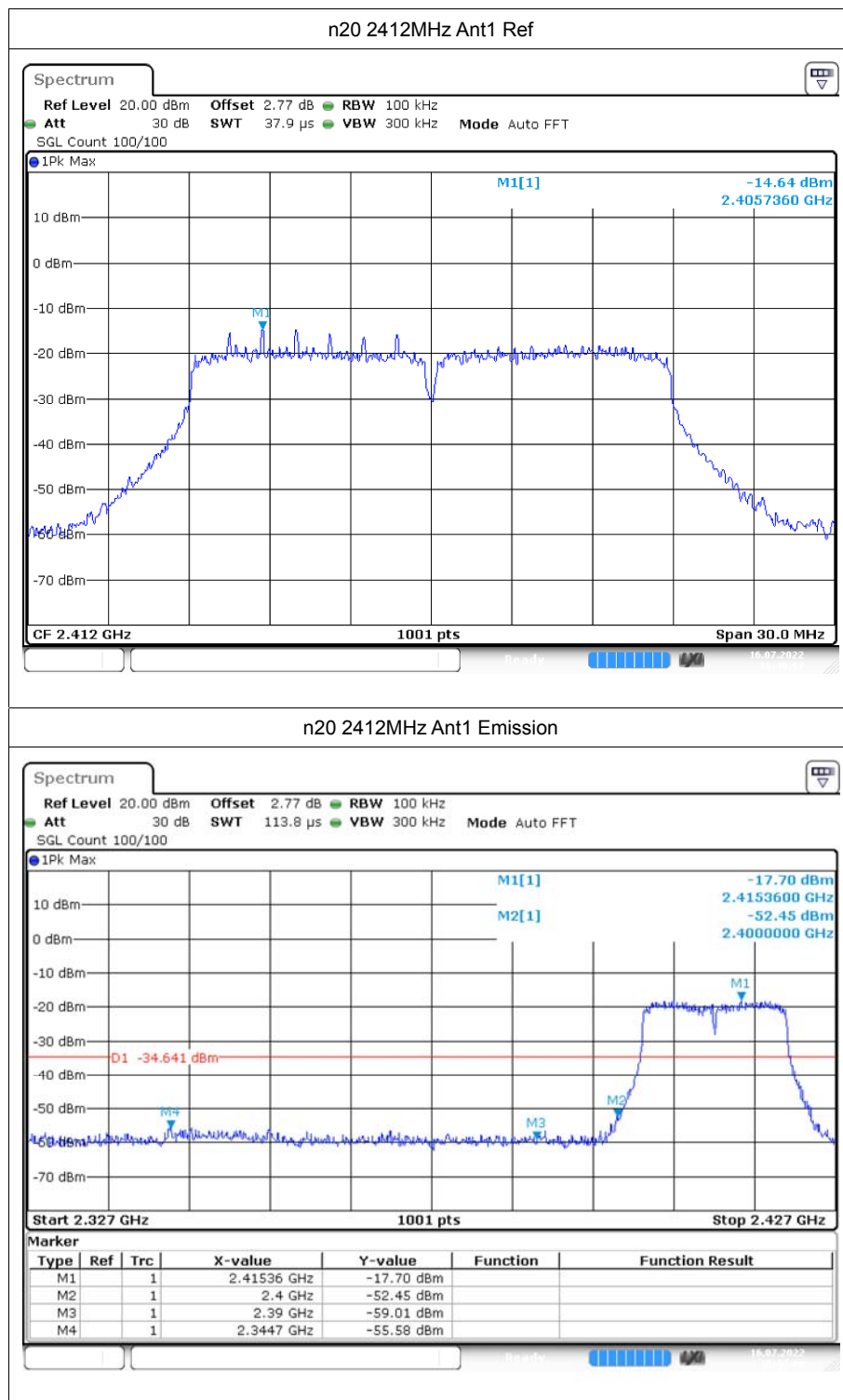
6.2 Test Graphs

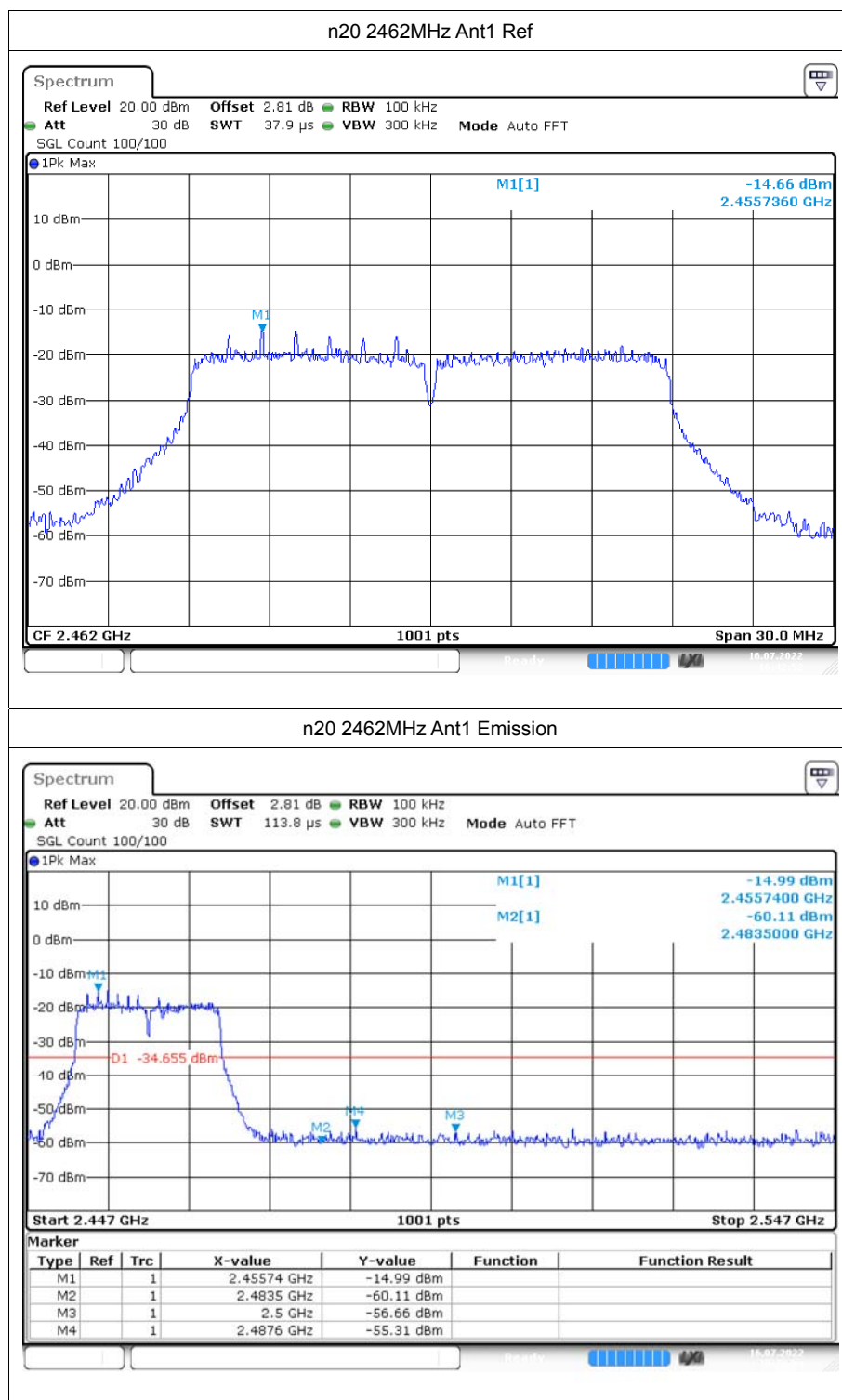


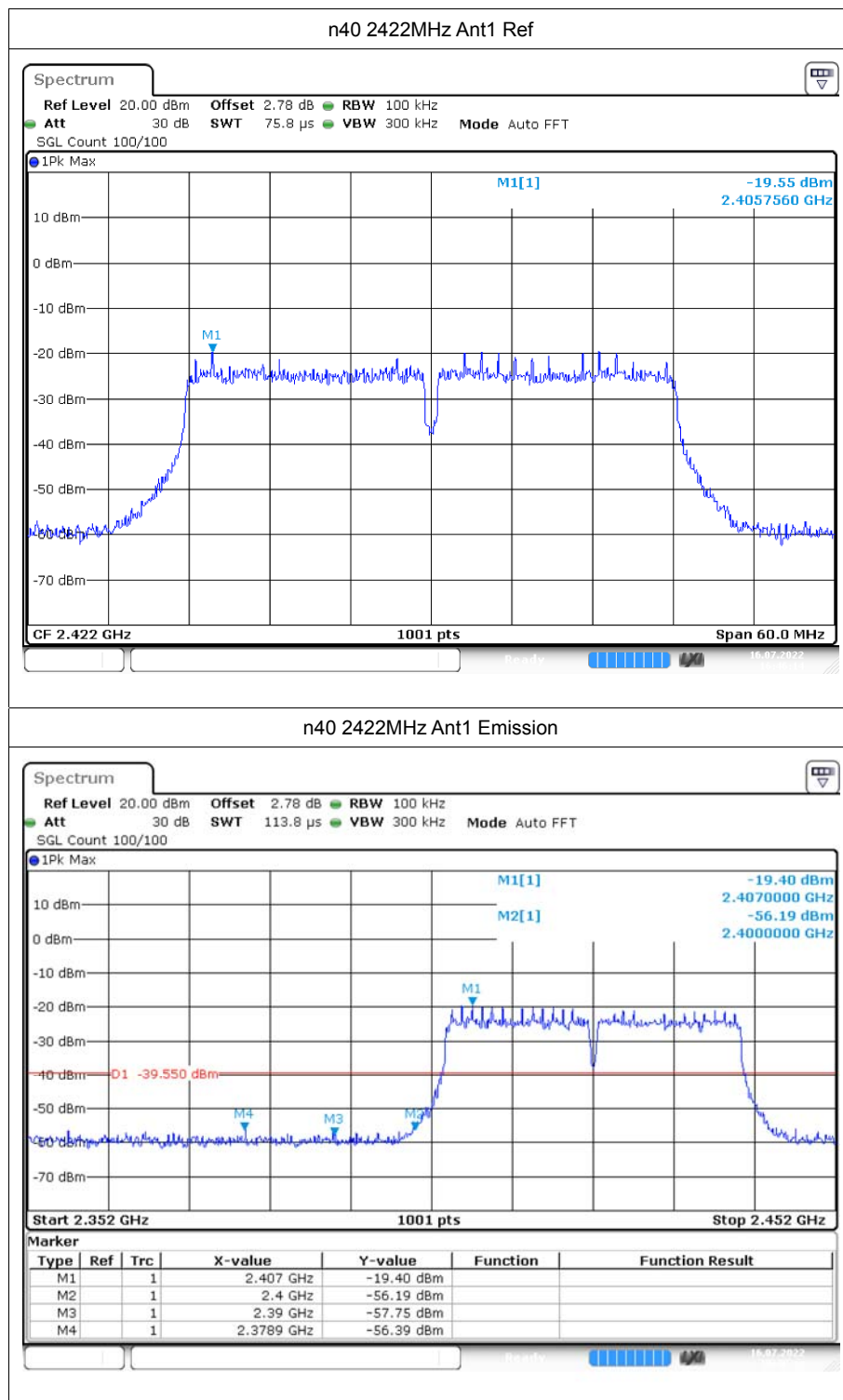


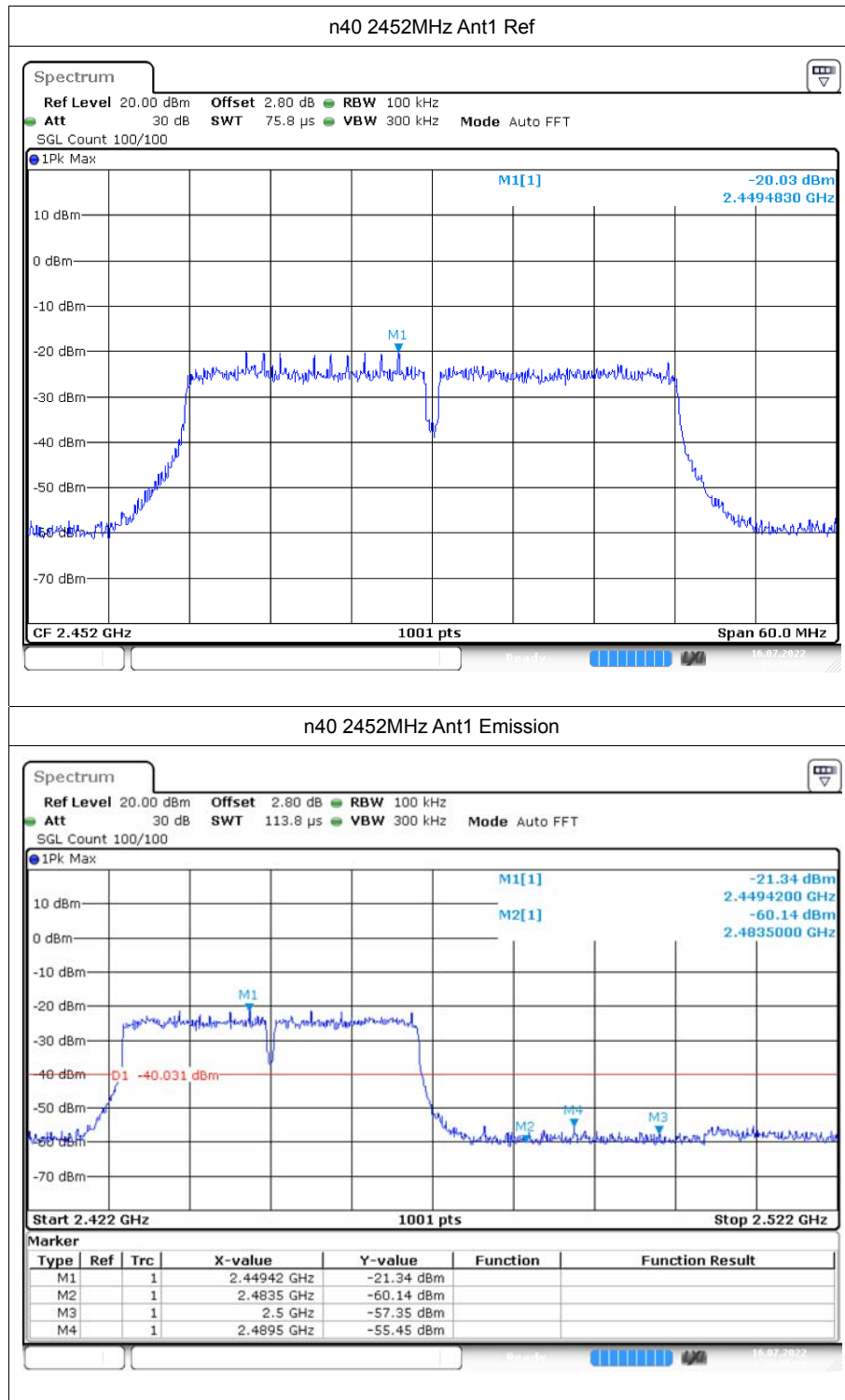












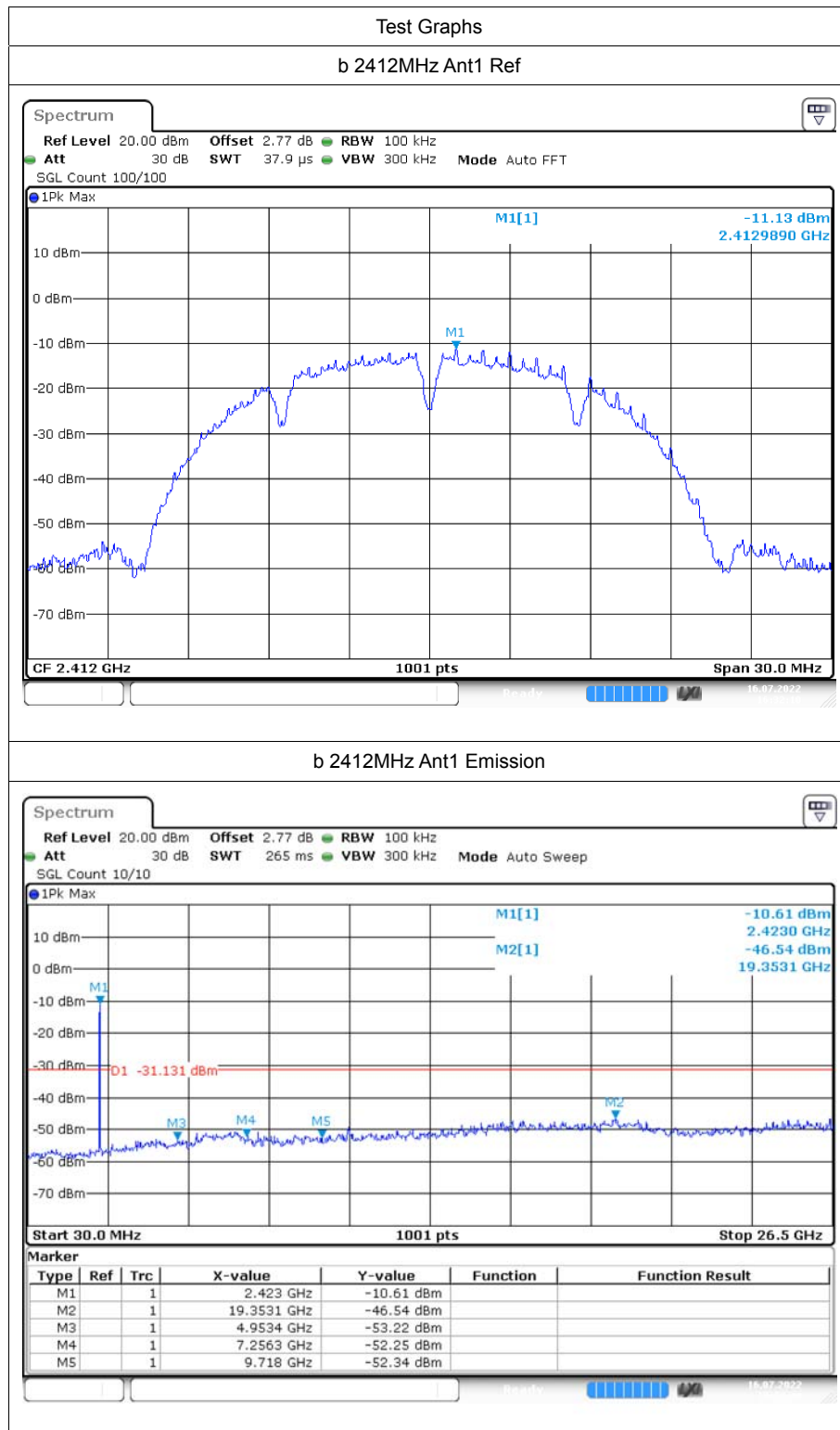


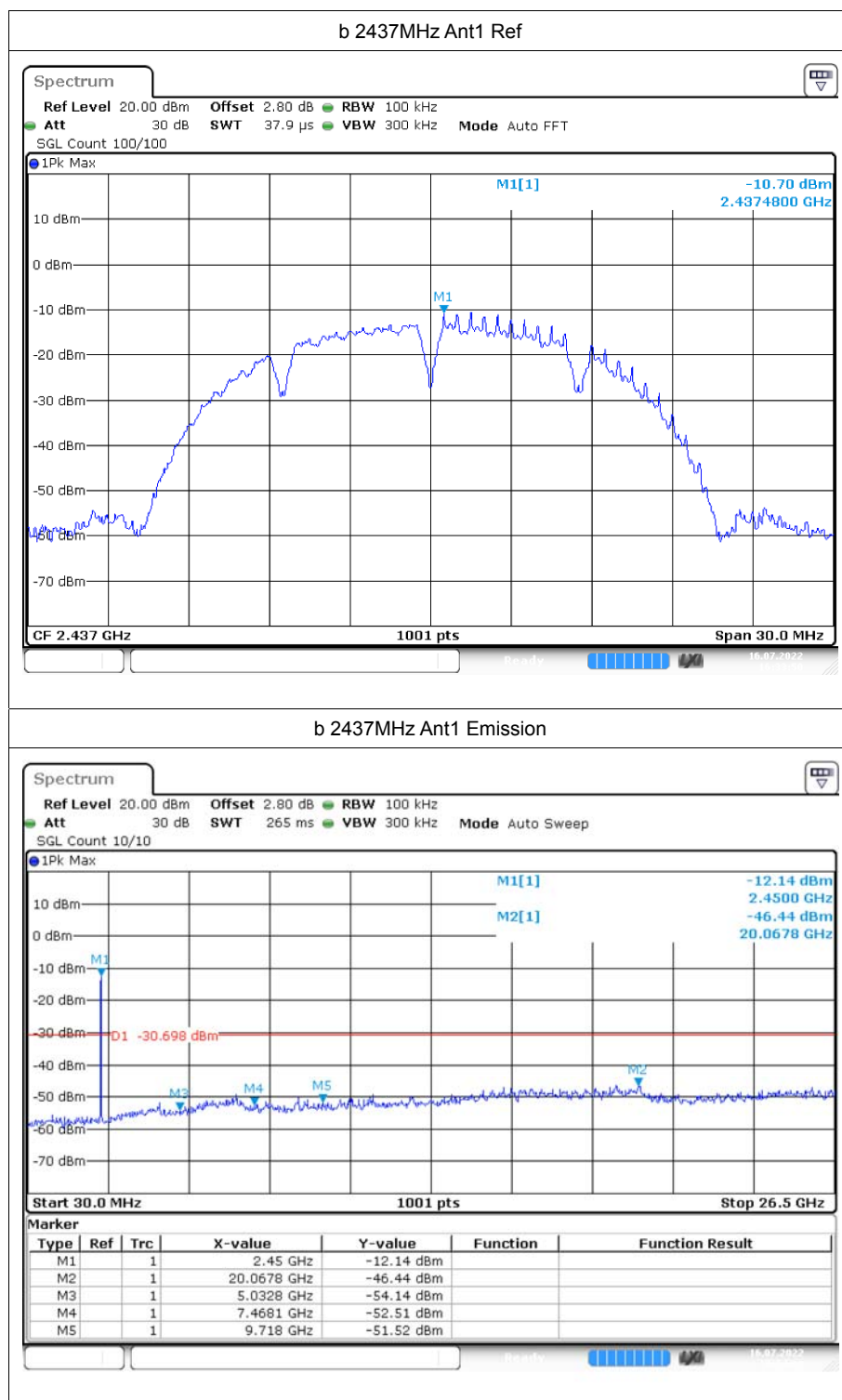
7 Conducted RF Spurious Emission

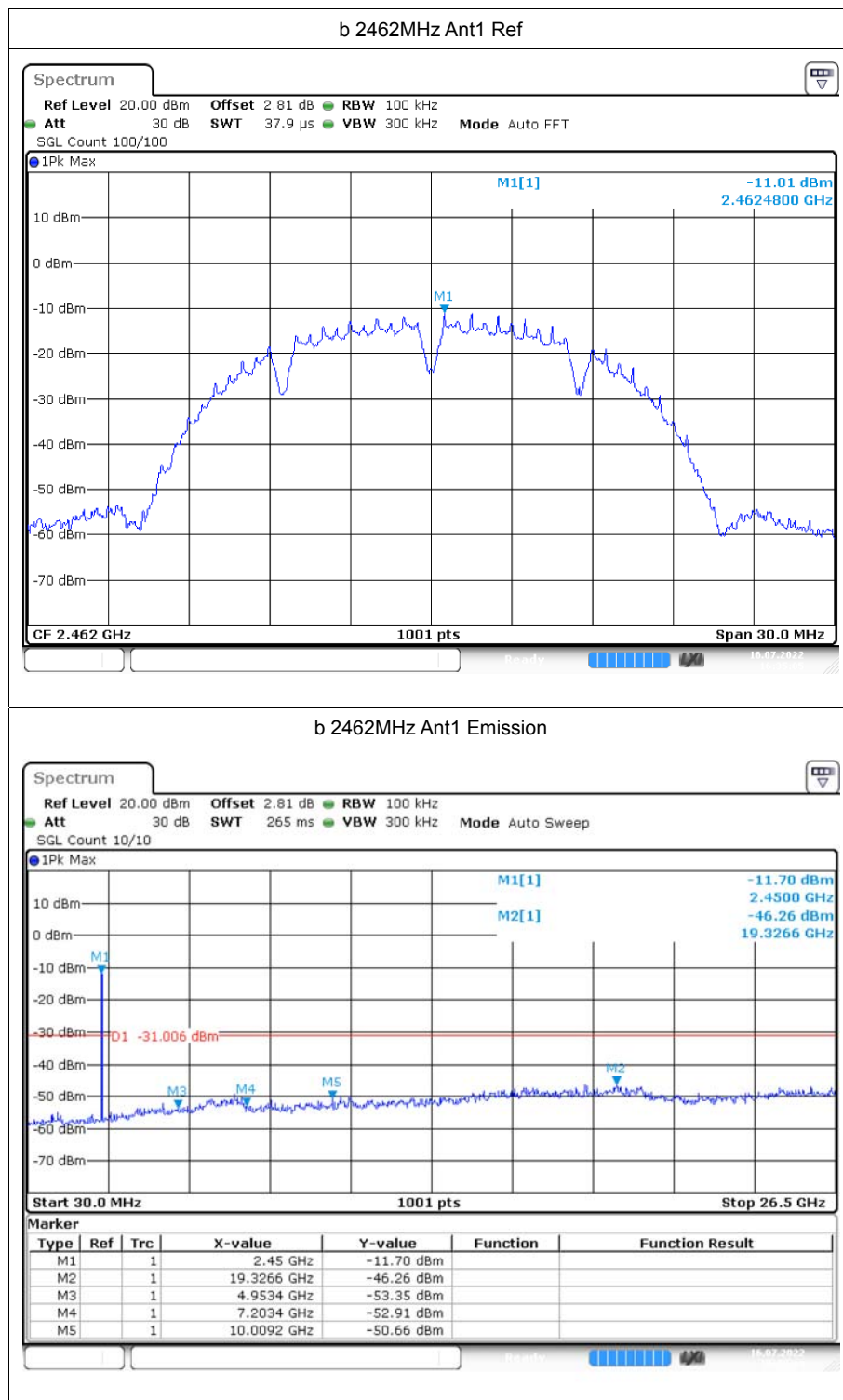
7.1 Test Result

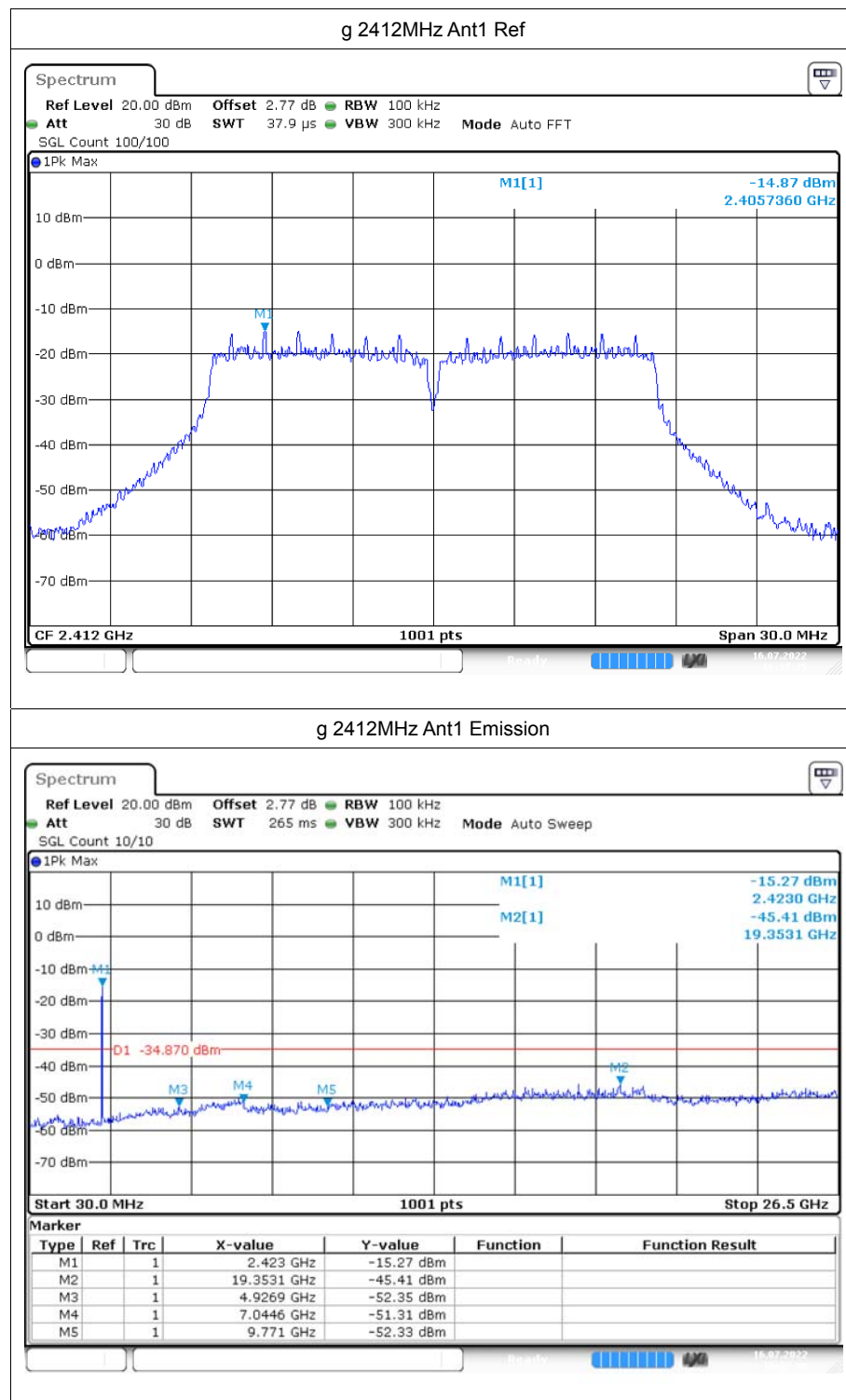
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-35.41	-20	Pass
b	2437	Ant1	-35.73	-20	Pass
b	2462	Ant1	-35.24	-20	Pass
g	2412	Ant1	-30.53	-20	Pass
g	2437	Ant1	-28.3	-20	Pass
g	2462	Ant1	-30.73	-20	Pass
n20	2412	Ant1	-30.5	-20	Pass
n20	2437	Ant1	-31.67	-20	Pass
n20	2462	Ant1	-29.15	-20	Pass
n40	2422	Ant1	-25.27	-20	Pass
n40	2437	Ant1	-26.73	-20	Pass
n40	2452	Ant1	-25.02	-20	Pass

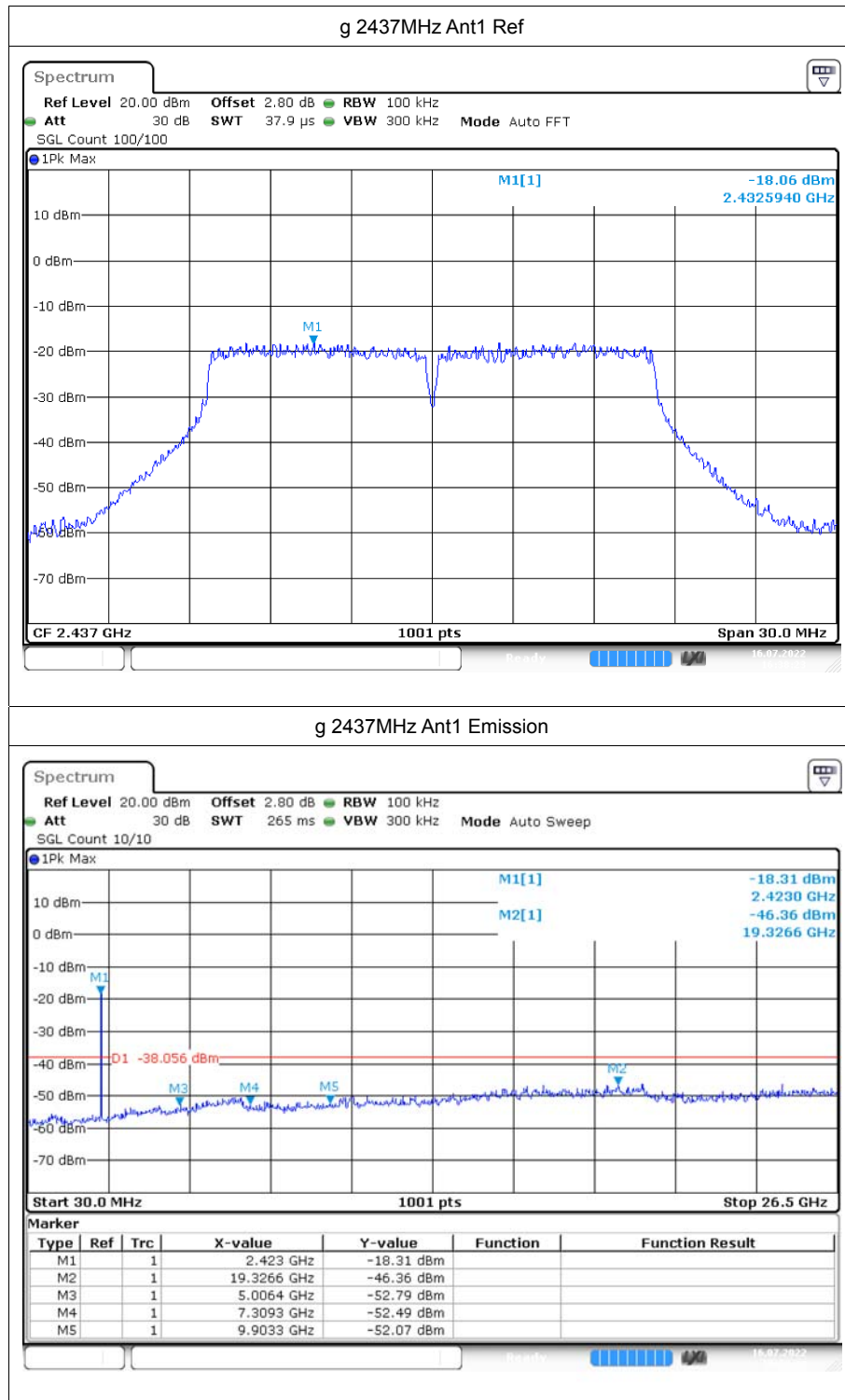
7.2 Test Graphs

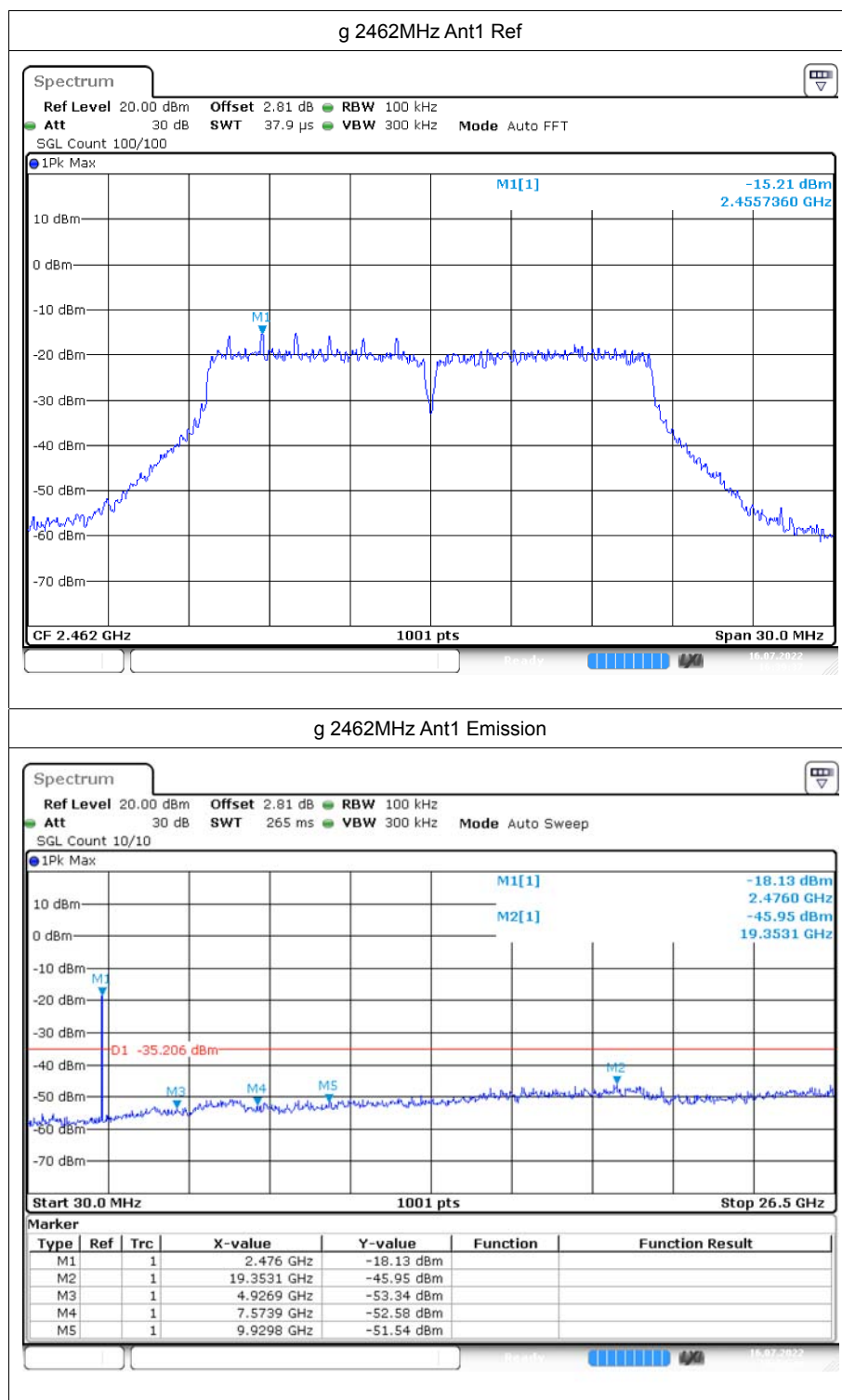


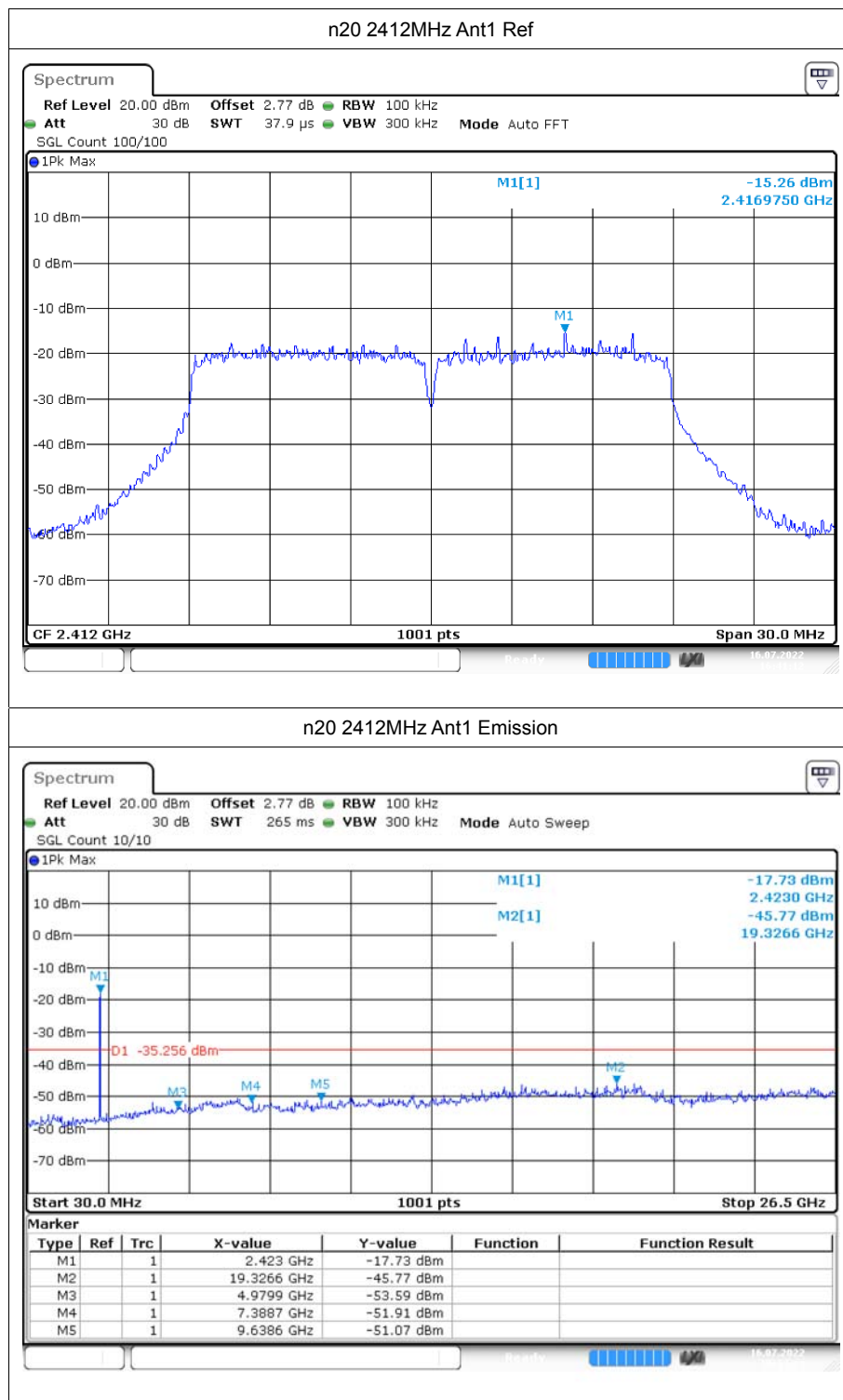


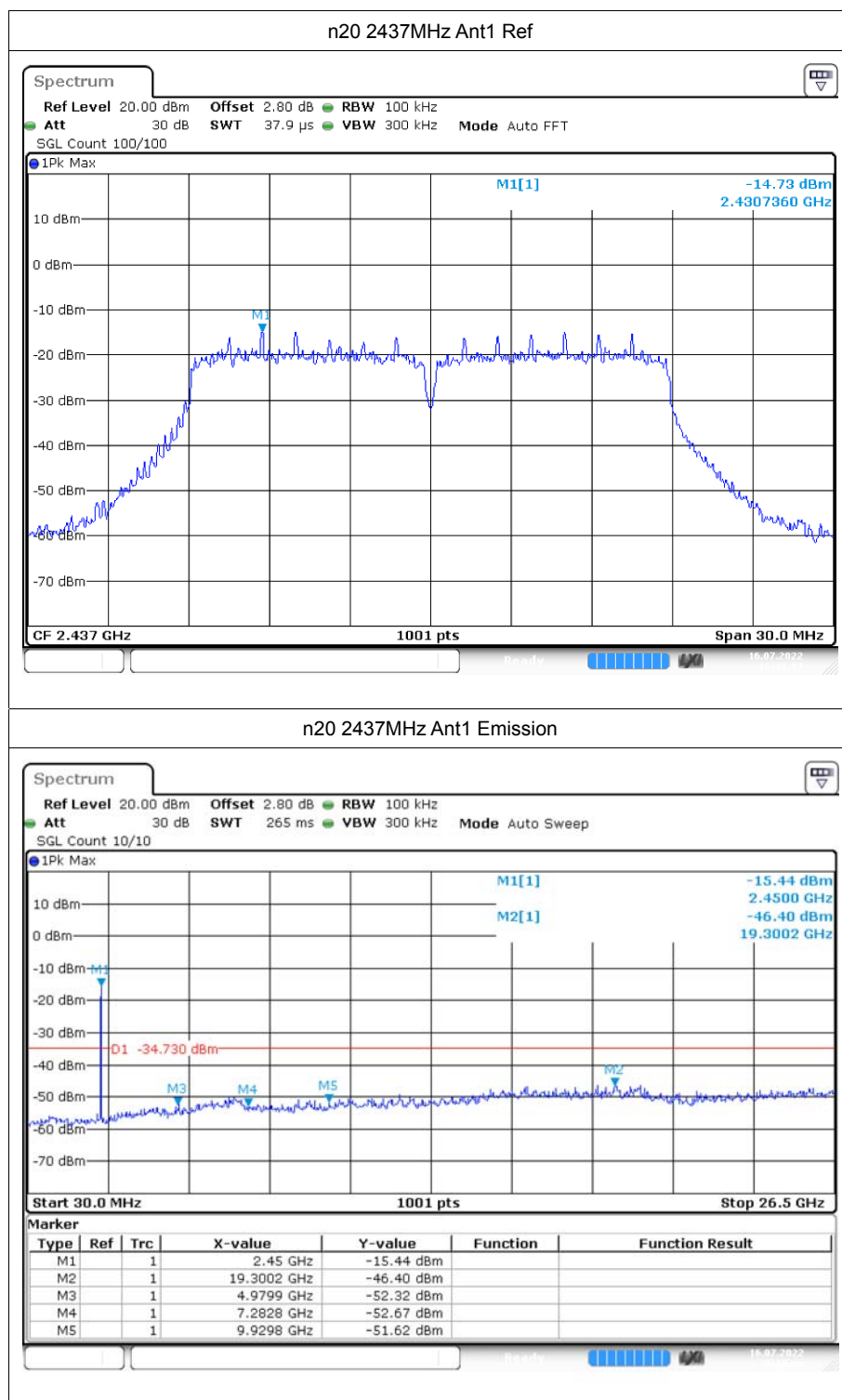


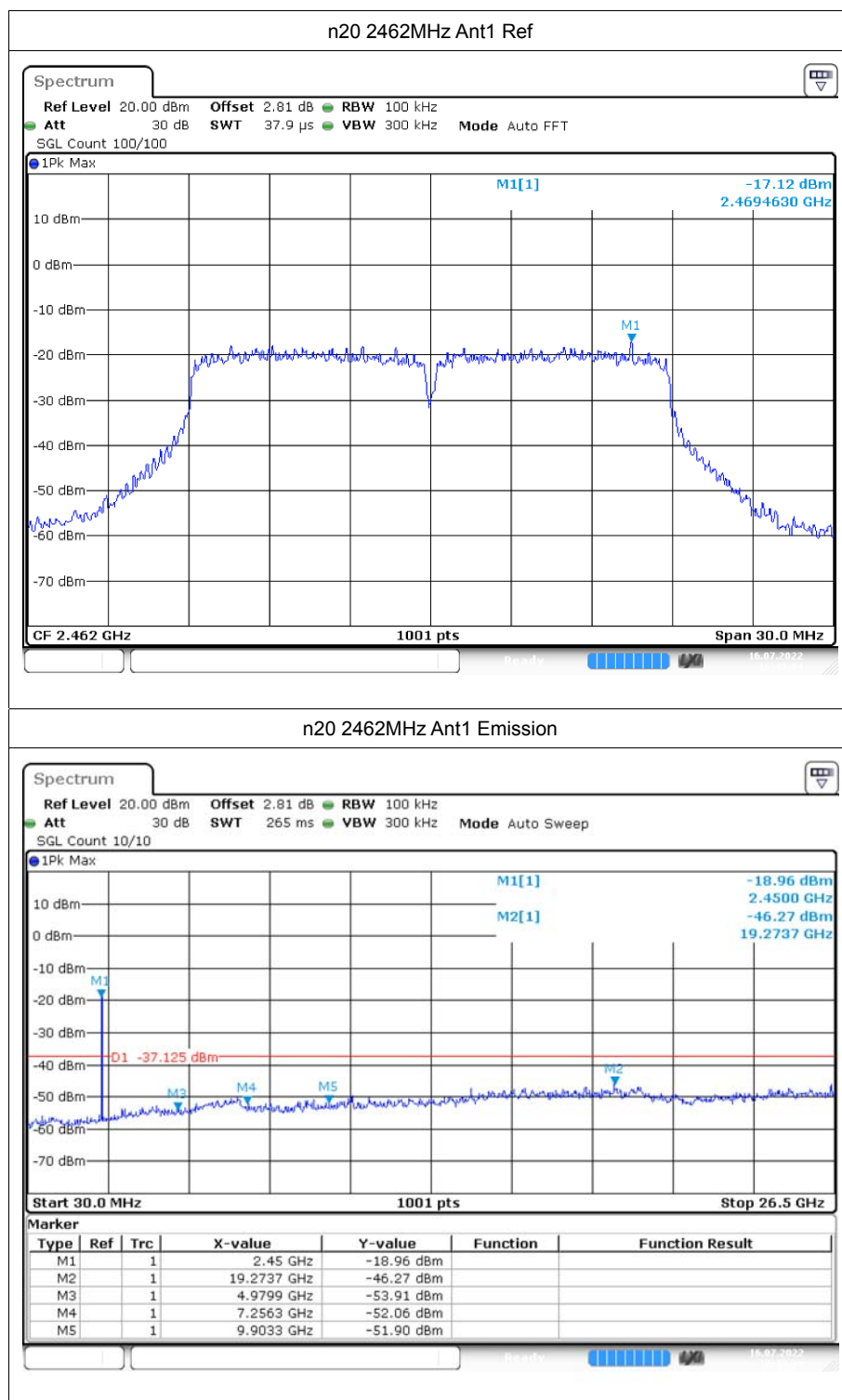


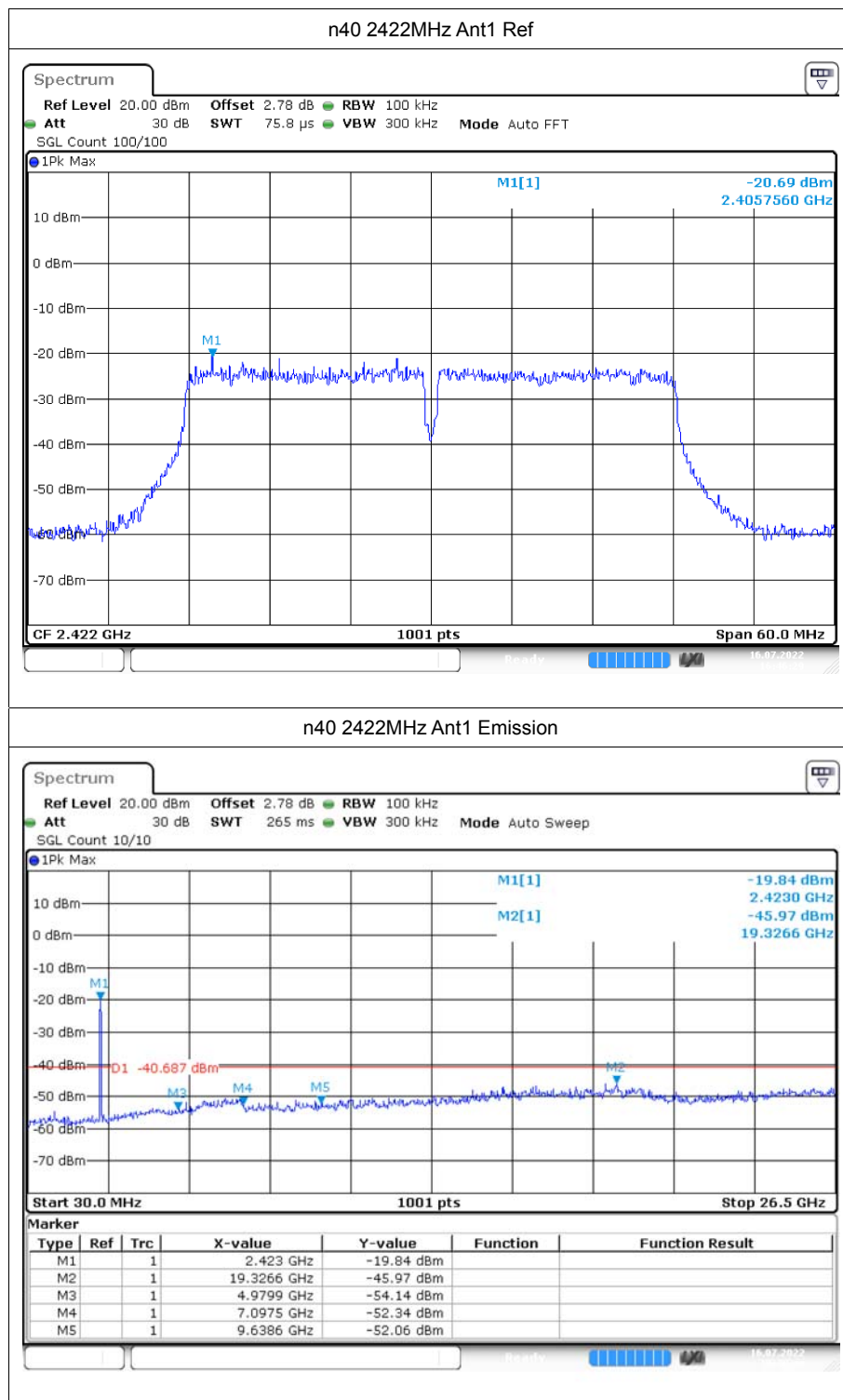


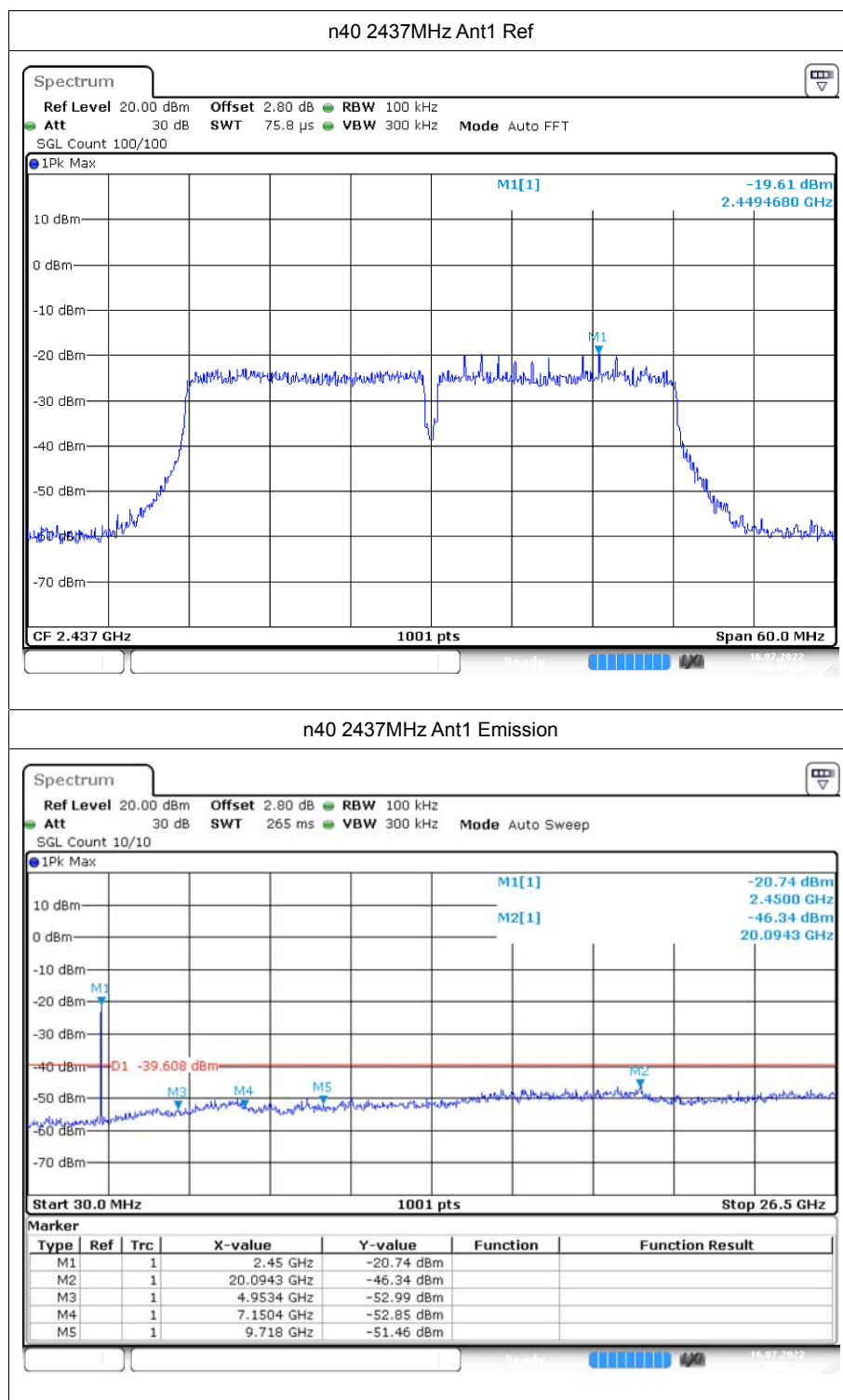


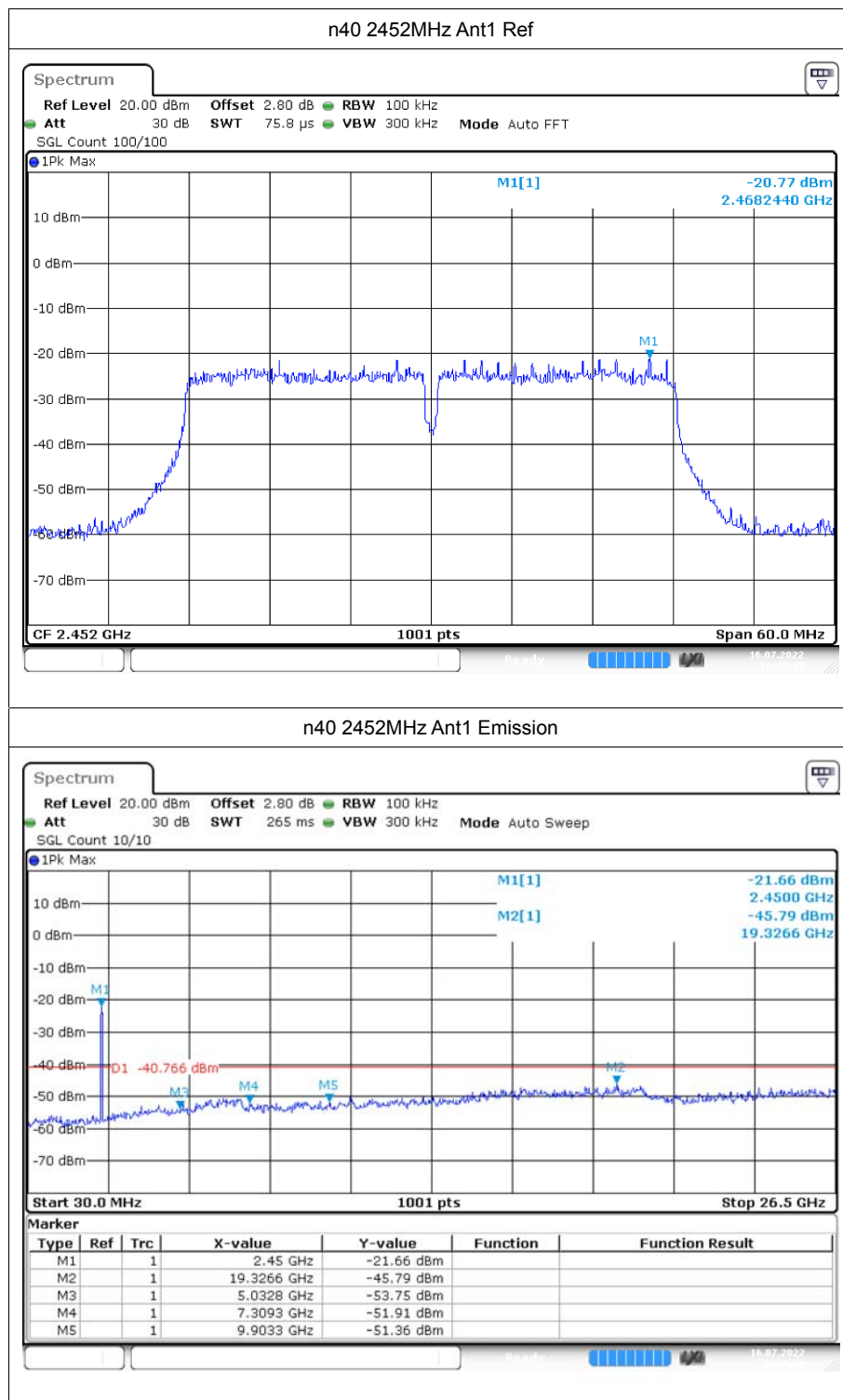














8 Restrict Band

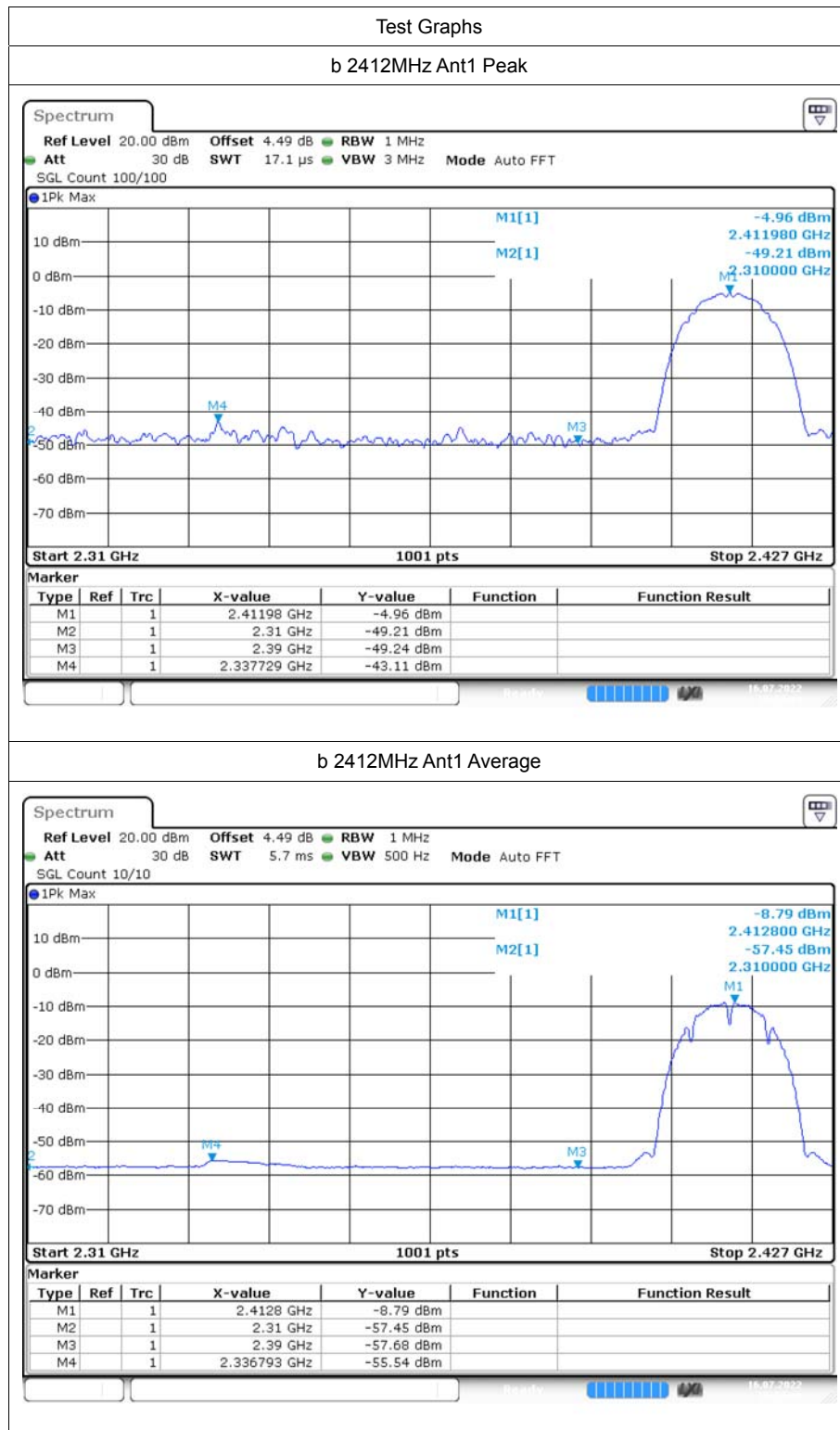
8.1 Test Result

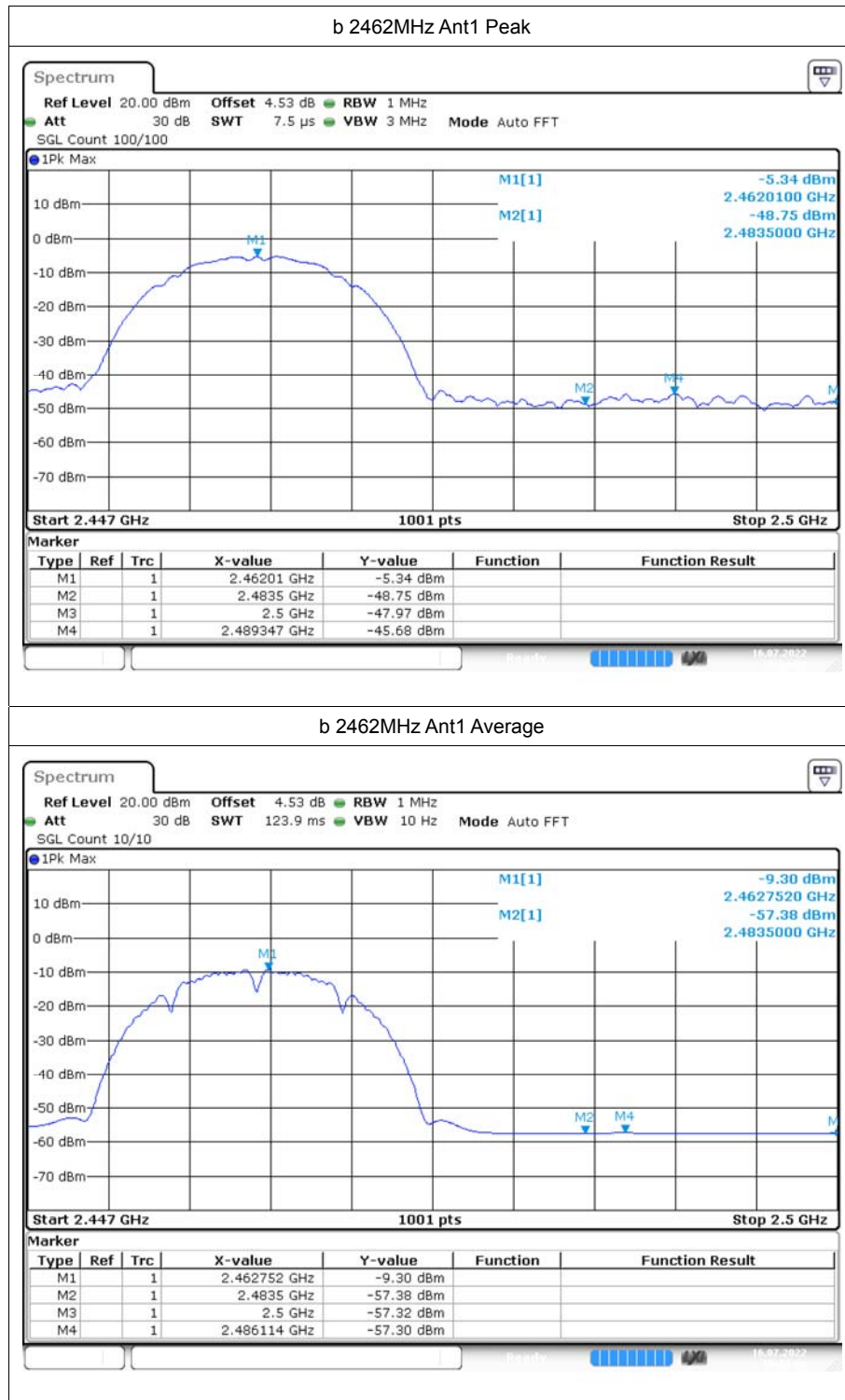
Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
b	2412	Ant1	2310	-49.2	2	48.06	Peak	74	Pass
b	2412	Ant1	2310	-57.45	2	39.81	Average	54	Pass
b	2412	Ant1	2337.729	-43.1	2	54.16	Peak	74	Pass
b	2412	Ant1	2336.793	-55.53	2	41.73	Average	54	Pass
b	2412	Ant1	2390	-49.23	2	48.03	Peak	74	Pass
b	2412	Ant1	2390	-57.68	2	39.58	Average	54	Pass
b	2462	Ant1	2483.5	-48.75	2	48.51	Peak	74	48.51
b	2462	Ant1	2483.5	-57.37	2	39.89	Average	54	Pass
b	2462	Ant1	2489.347	-45.67	2	51.59	Peak	74	Pass
b	2462	Ant1	2486.114	-57.29	2	39.97	Average	54	Pass
b	2462	Ant1	2500	-47.97	2	49.29	Peak	74	Pass
b	2462	Ant1	2500	-57.32	2	39.94	Average	54	Pass
g	2412	Ant1	2310	-47.68	2	49.58	Peak	74	Pass
g	2412	Ant1	2310	-57.35	2	39.91	Average	54	Pass
g	2412	Ant1	2342.058	-44.95	2	52.31	Peak	74	Pass
g	2412	Ant1	2337.261	-55.16	2	42.1	Average	54	Pass
g	2412	Ant1	2390	-49.42	2	48.03	Peak	74	Pass
g	2412	Ant1	2390	-57.44	2	39.82	Average	54	Pass
g	2462	Ant1	2483.5	-48.31	2	48.95	Peak	74	Pass
g	2462	Ant1	2483.5	-56.79	2	40.47	Average	54	Pass
g	2462	Ant1	2489.347	-45.62	2	51.64	Peak	74	Pass
g	2462	Ant1	2498.198	-56.62	2	40.64	Average	54	Pass
g	2462	Ant1	2500	-47.62	2	49.29	Peak	74	Pass
g	2462	Ant1	2500	-56.86	2	40.4	Average	54	Pass
n20	2412	Ant1	2310	-48.66	2	48.6	Peak	74	Pass
n20	2412	Ant1	2310	-56.92	2	40.34	Average	54	Pass
n20	2412	Ant1	2340.888	-44.84	2	52.42	Peak	74	Pass
n20	2412	Ant1	2337.027	-55.06	2	42.2	Average	54	Pass
n20	2412	Ant1	2390	-48.7	2	48.56	Peak	74	Pass
n20	2412	Ant1	2390	-57.39	2	39.87	Average	54	Pass
n20	2462	Ant1	2483.5	-47.8	2	49.46	Peak	74	Pass
n20	2462	Ant1	2483.5	-56.49	2	40.77	Average	54	Pass
n20	2462	Ant1	2496.396	-46.38	2	50.88	Peak	74	Pass
n20	2462	Ant1	2498.516	-56.34	2	40.92	Average	54	Pass

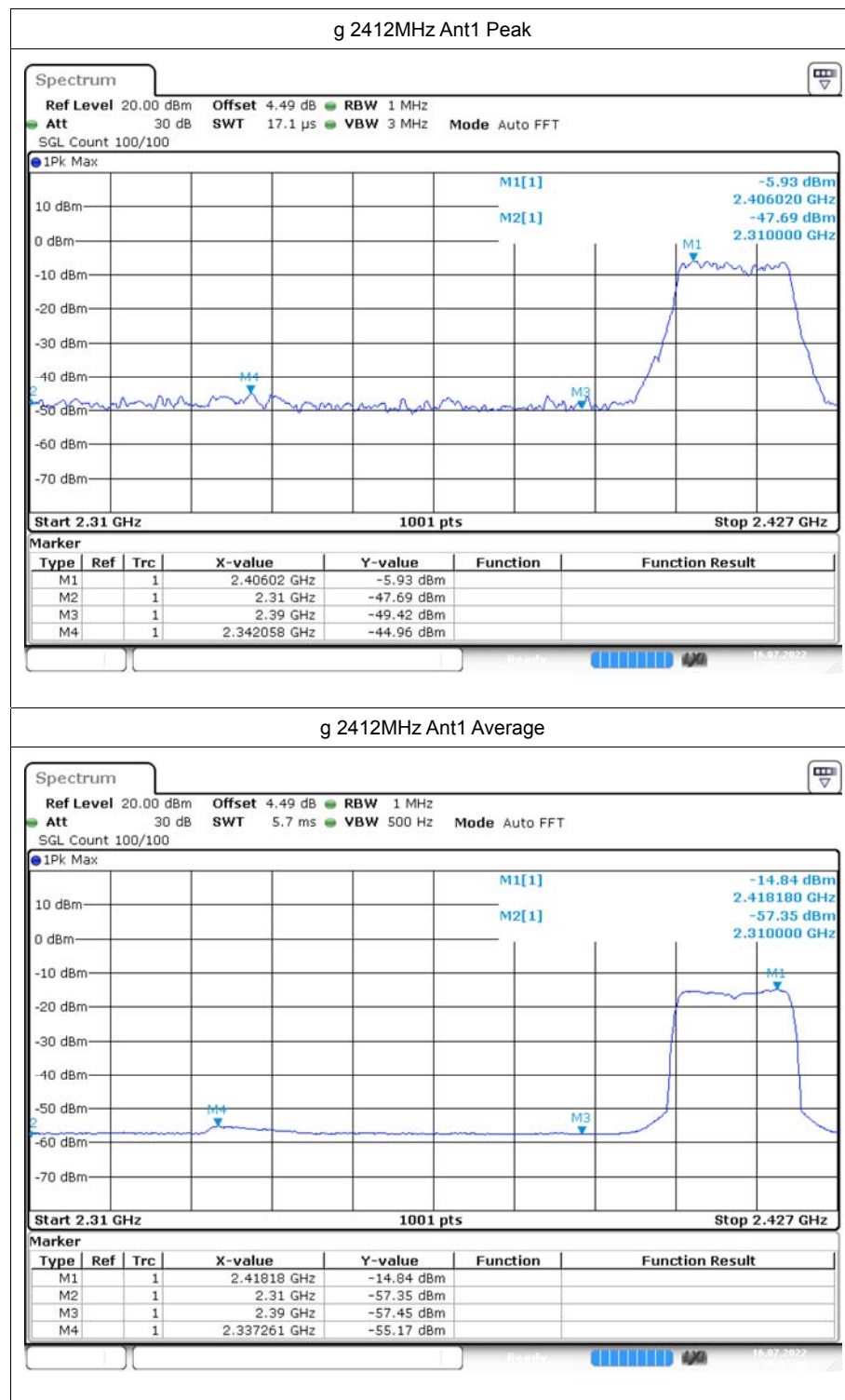


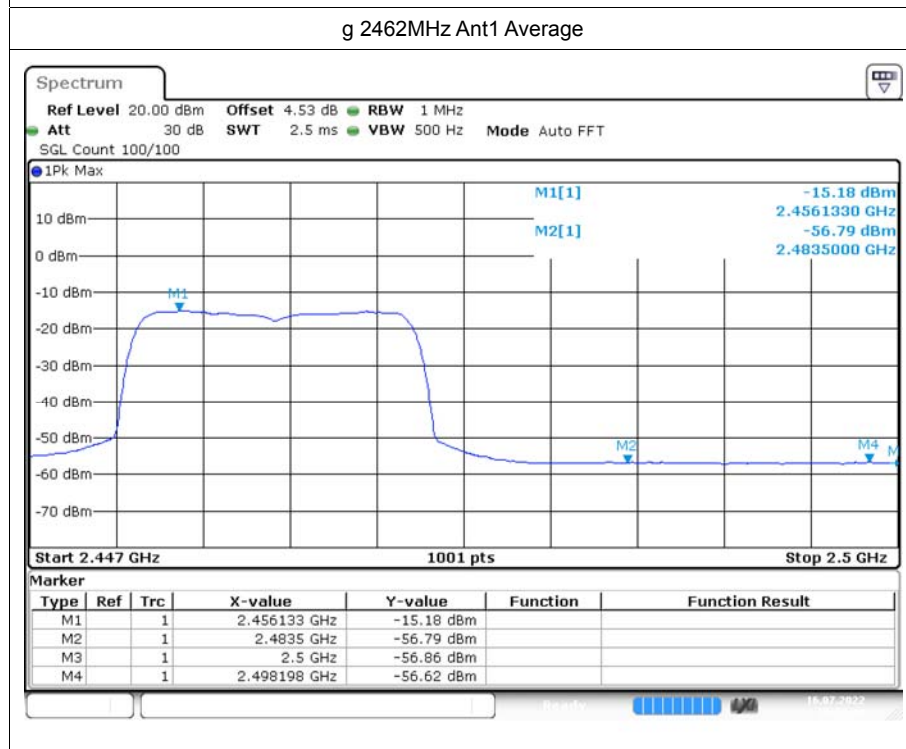
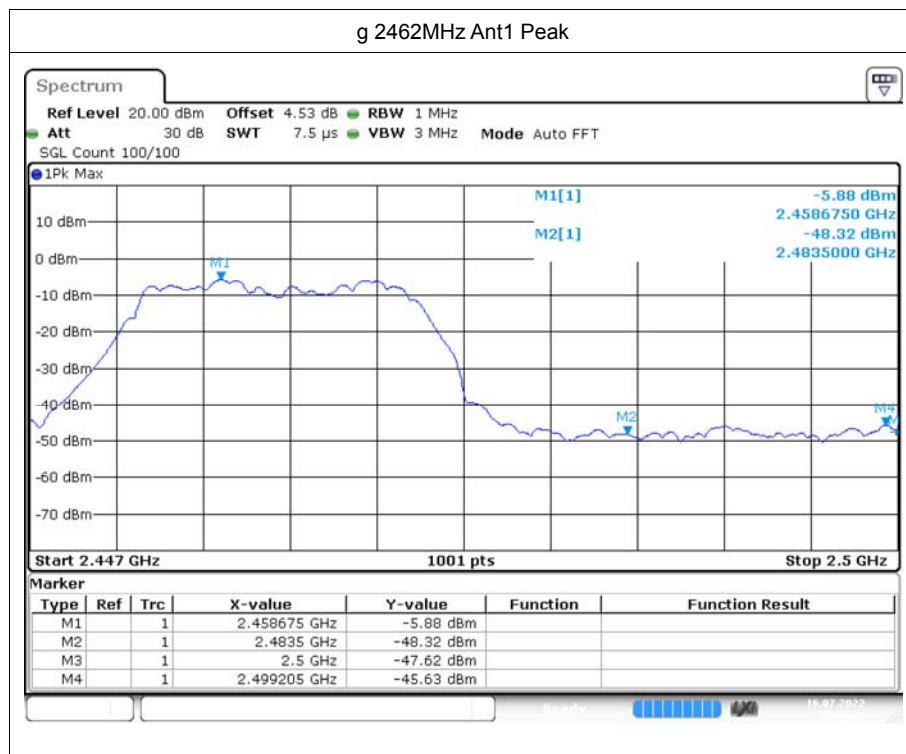
n20	2462	Ant1	2500	-46.57	2	50.69	Peak	74	Pass
n20	2462	Ant1	2500	-56.6	2	40.66	Average	54	Pass
n40	2422	Ant1	2310	-49.28	2	47.98	Peak	74	Pass
n40	2422	Ant1	2310	-56.25	2	41.01	Average	54	Pass
n40	2422	Ant1	2338.826	-44.27	2	52.99	Peak	74	Pass
n40	2422	Ant1	2339.536	-54.7	2	42.56	Average	54	Pass
n40	2422	Ant1	2390	-47.9	2	49.36	Peak	74	Pass
n40	2422	Ant1	2390	-56.86	2	40.4	Average	54	Pass
n40	2452	Ant1	2483.5	-48.72	2	48.54	Peak	74	Pass
n40	2452	Ant1	2483.5	-56.43	2	40.83	Average	54	Pass
n40	2452	Ant1	2488.768	-46.29	2	50.97	Peak	74	Pass
n40	2452	Ant1	2498.908	-55.9	2	41.36	Average	54	Pass
n40	2452	Ant1	2500	-50.19	2	47.07	Peak	74	Pass
n40	2452	Ant1	2500	-56.54	2	40.72	Average	54	Pass

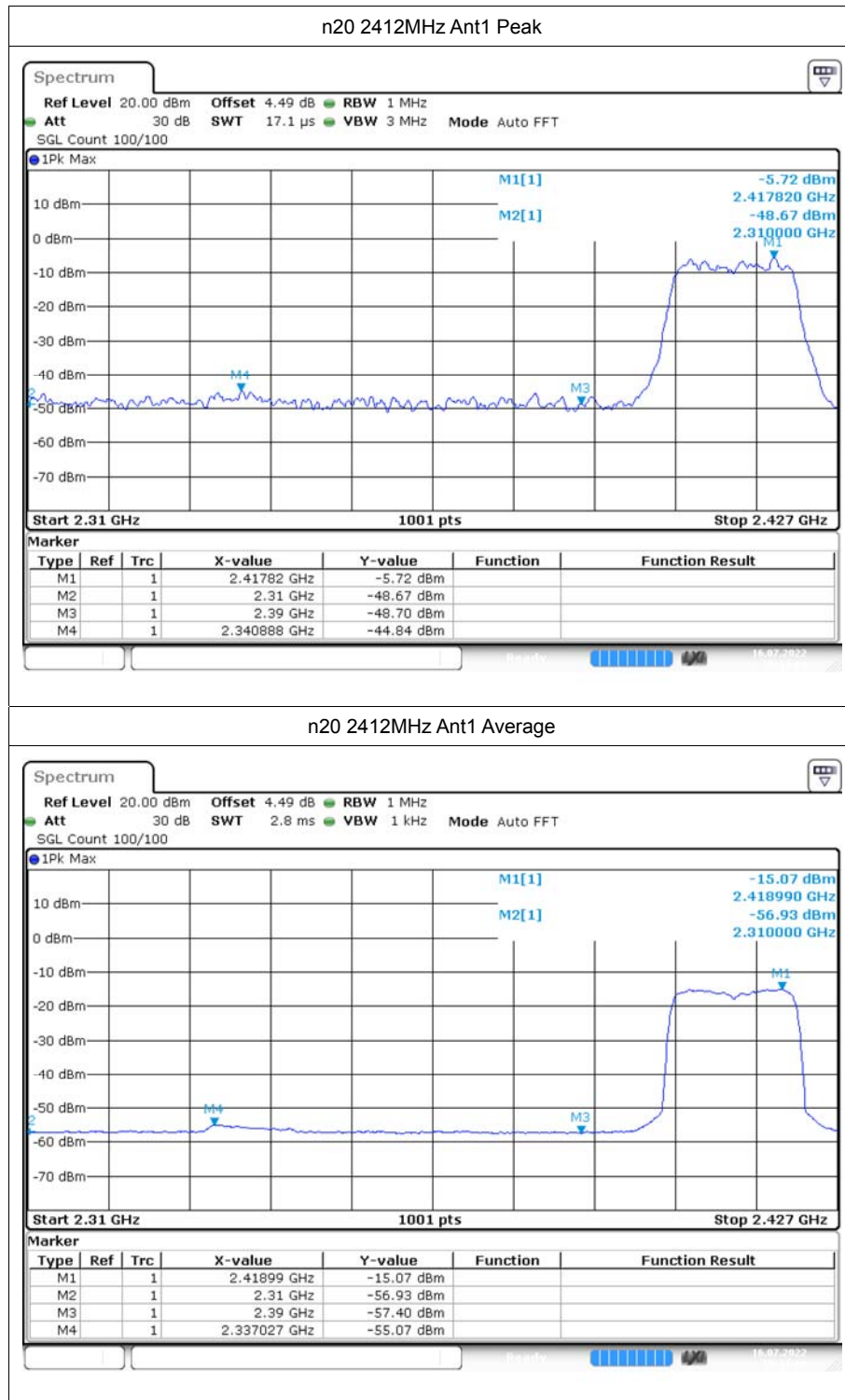
8.2 Test Graphs

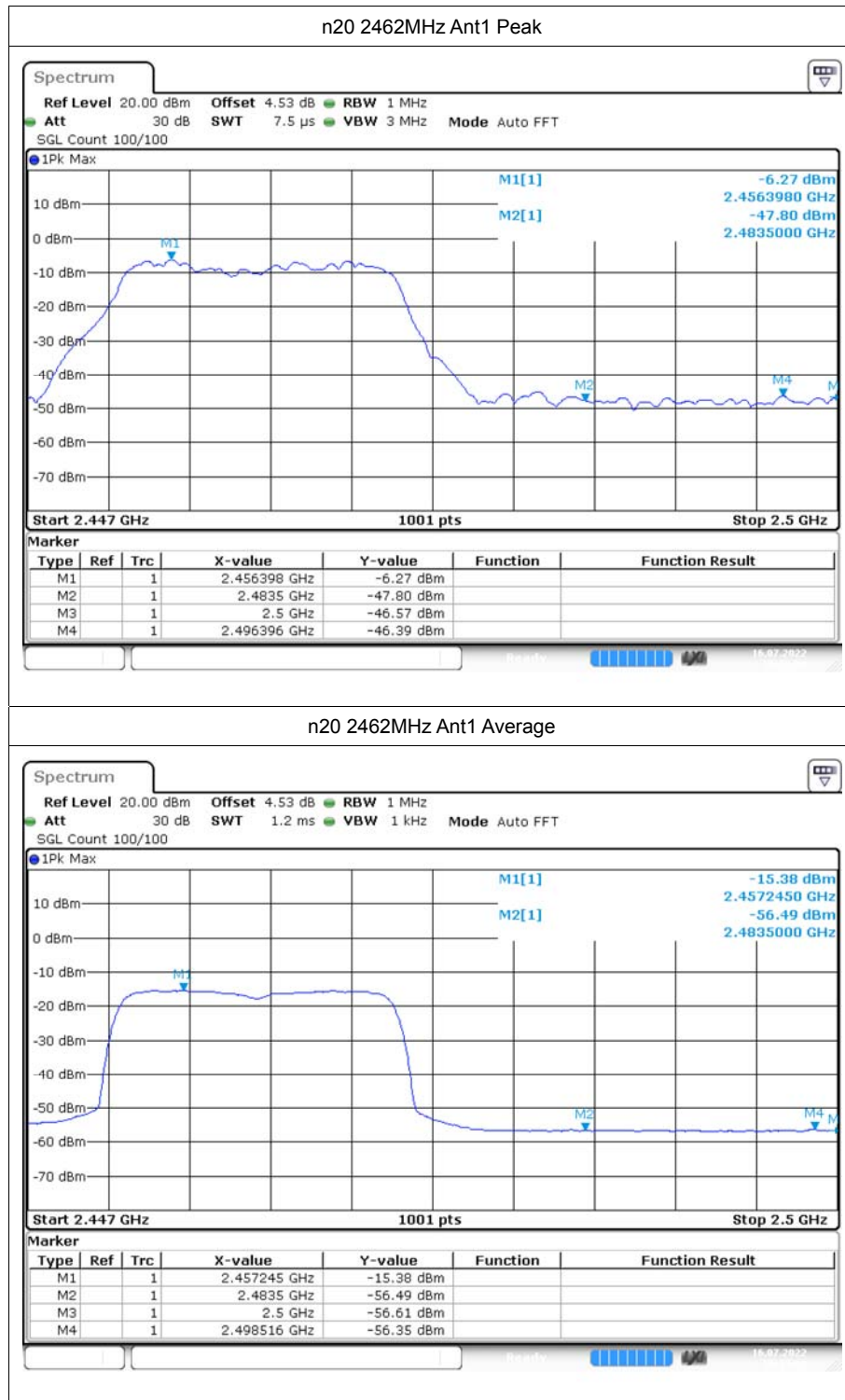


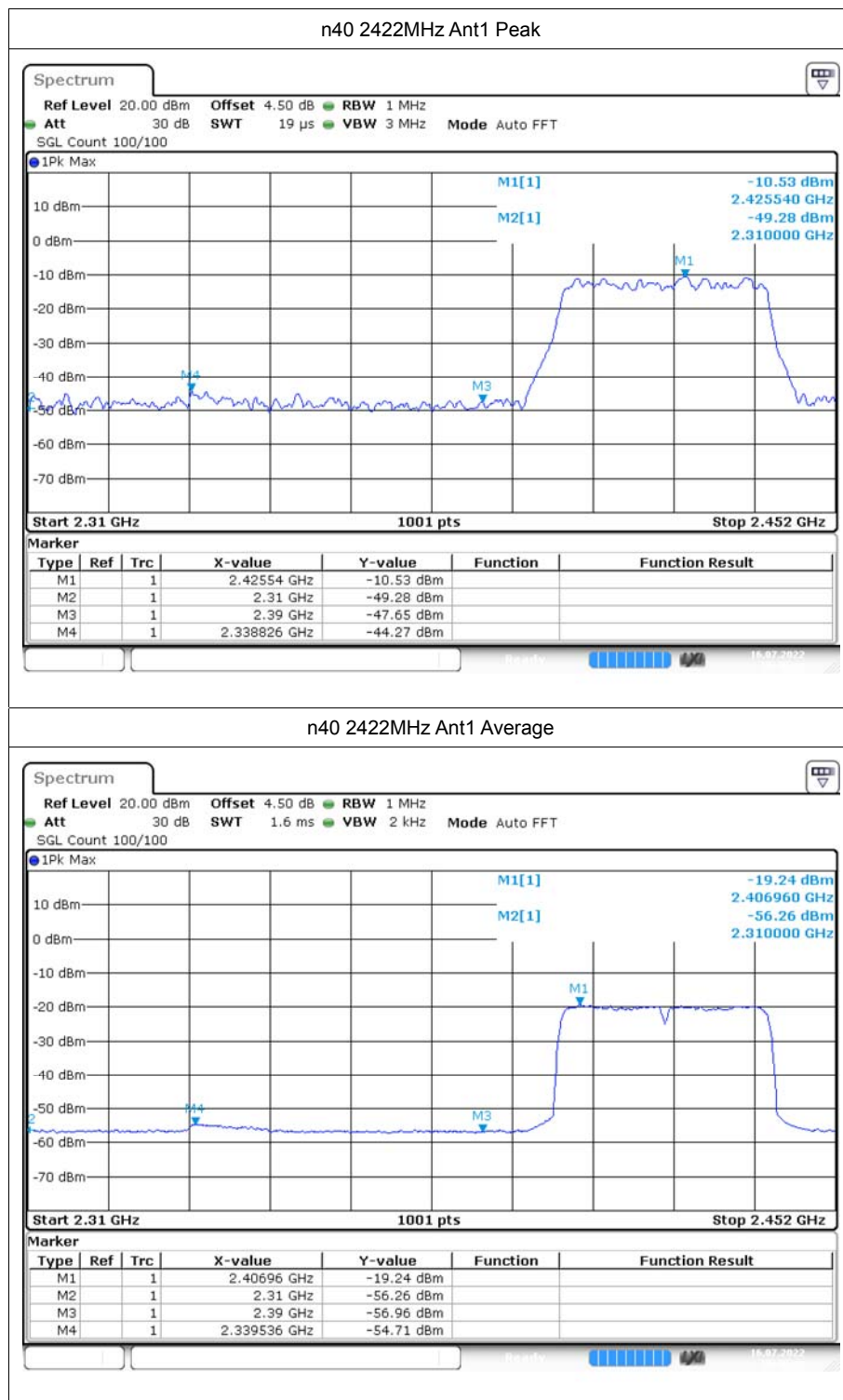


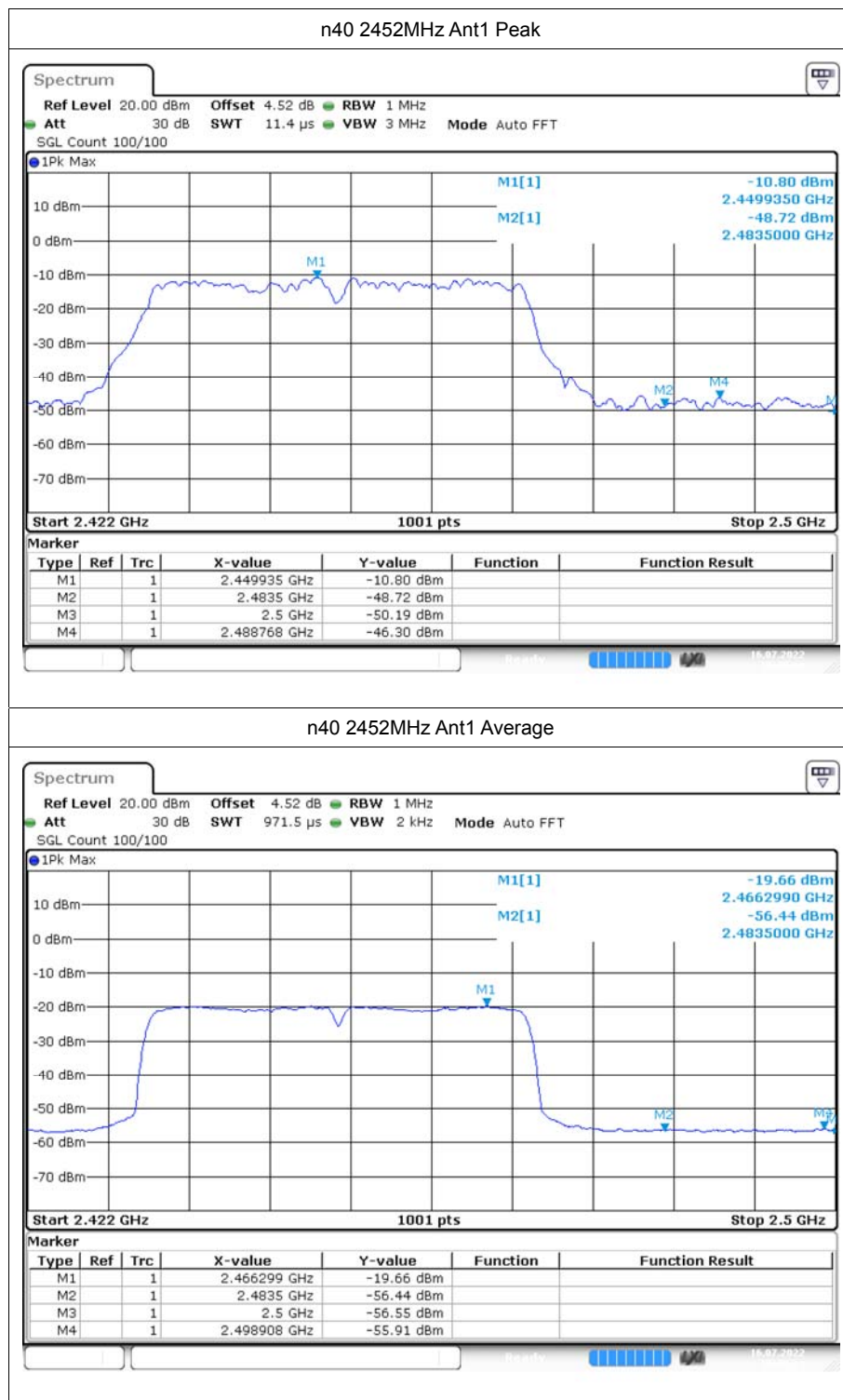












---The End---