



Appendix C

RF Test Data for 2.4GWIFI(Conducted Measurement)

Product Name: Mini PC

Trade Mark: Huidun

Test Model: H60

Environmental Conditions

Temperature:	25.8° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Emiya lin
Supervised by:	Simba Haung



Contents

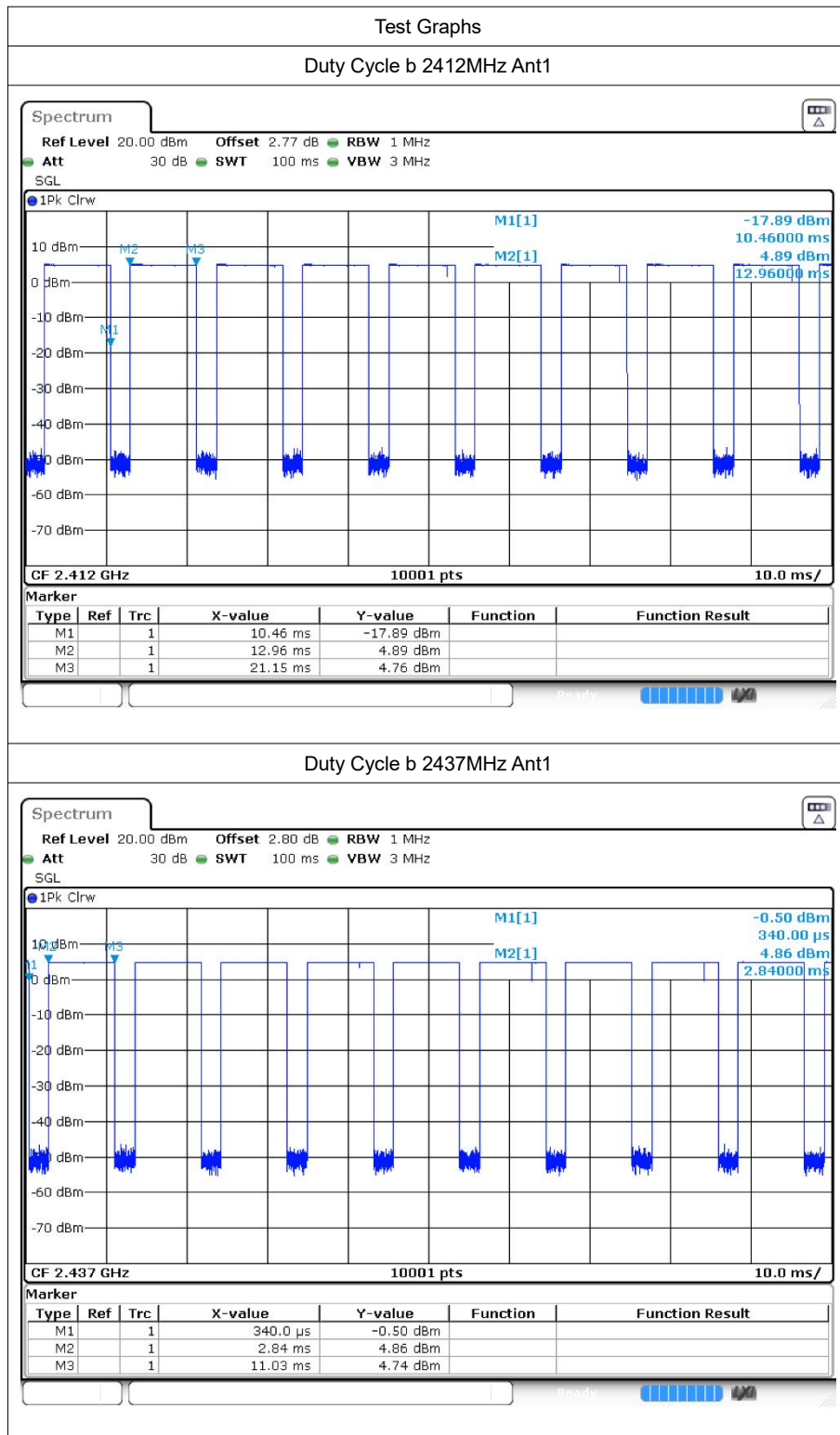
	Page
COVER PAGE	
1 Duty Cycle.....	3
1.1 Test Result.....	3
1.2 Test Graphs.....	4
2 Maximum Conducted Output Power.....	22
2.1 Test Result.....	22
3 -6dB Bandwidth.....	24
3.1 Test Result.....	24
3.2 Test Graphs.....	25
4 Maximum Power Spectral Density Level.....	43
4.1 Test Result.....	43
4.2 Test Graphs.....	45
5 Band Edge.....	63
5.1 Test Result.....	63
5.2 Test Graphs.....	64
6 Conducted RF Spurious Emission.....	88
6.1 Test Result.....	88
6.2 Test Graphs.....	90

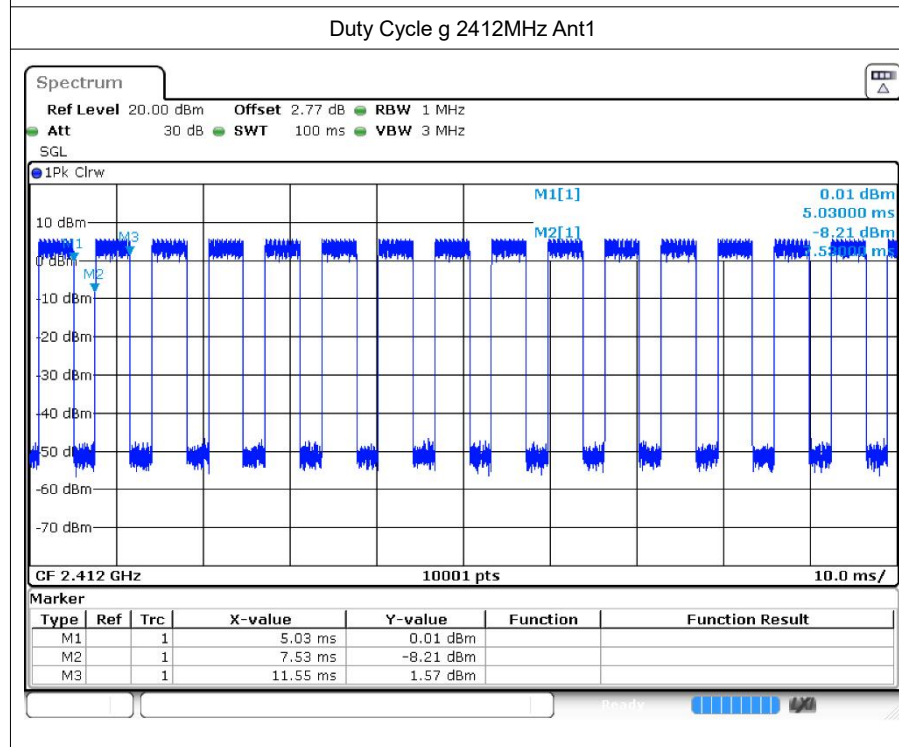
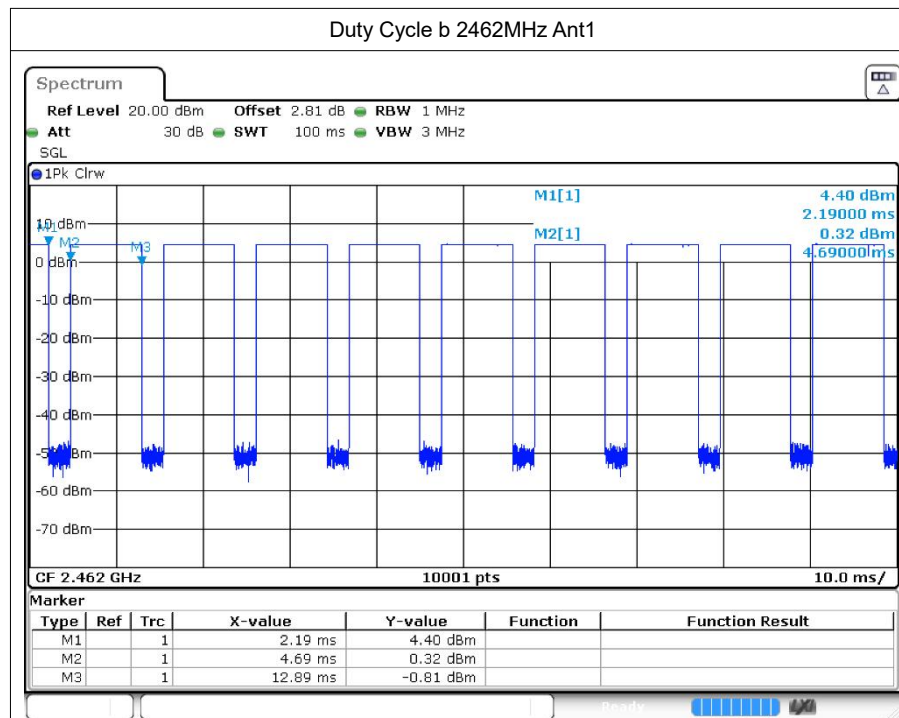
Duty Cycle

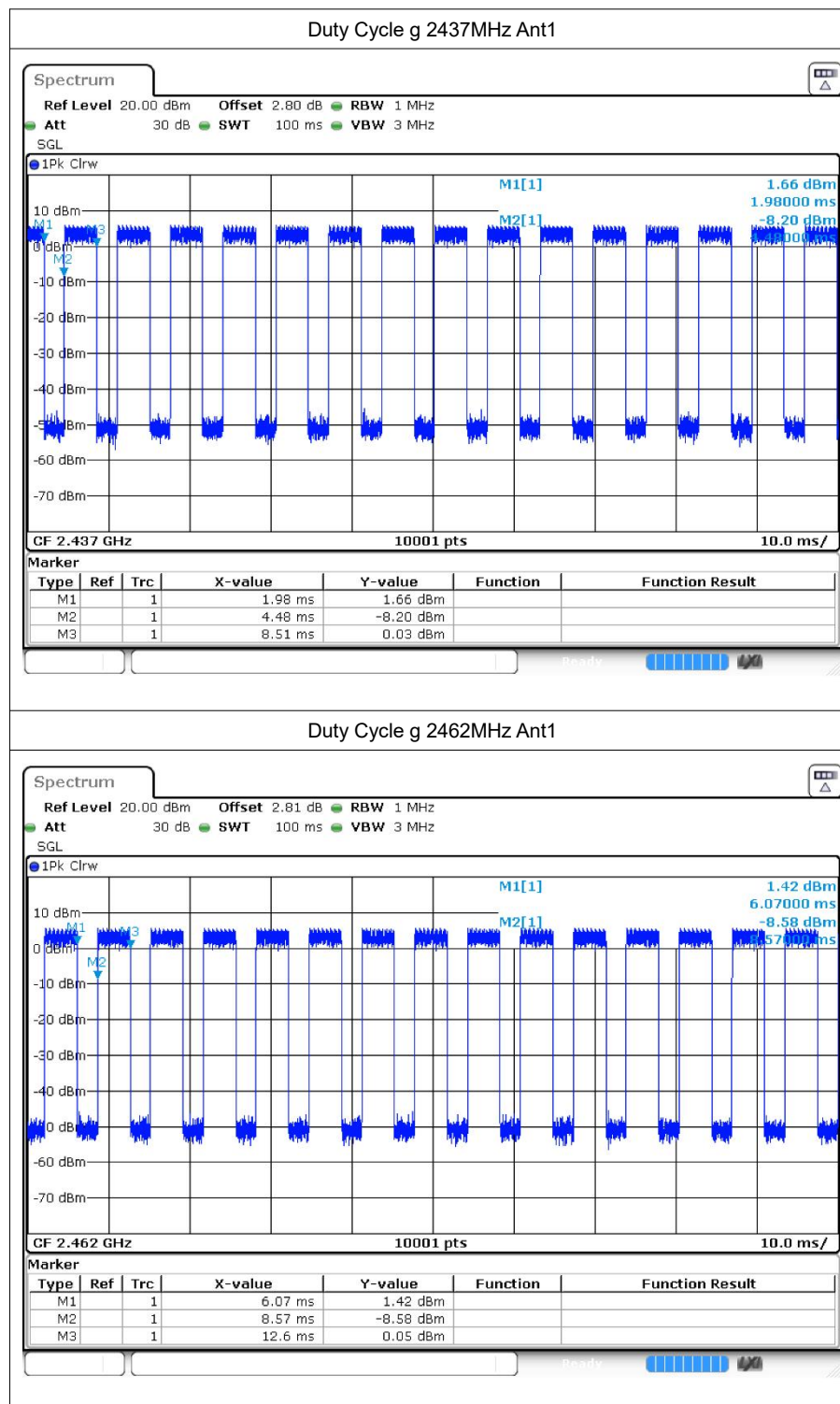
1.1 Test Result

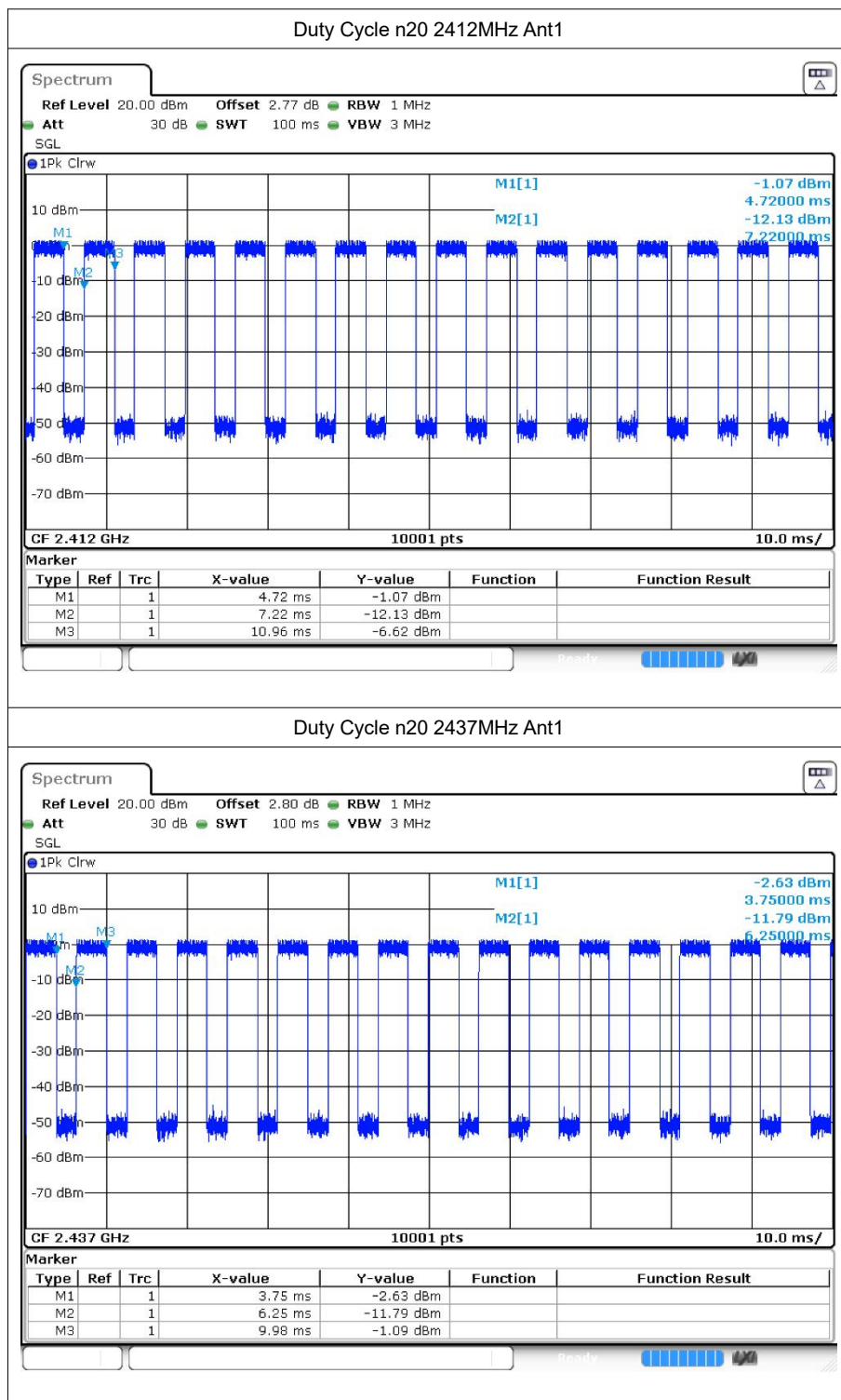
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor	1/T (kHz)
b	2412	Ant1	75.31	1.23	0.12
b	2437	Ant1	75.1	1.24	0.12
b	2462	Ant1	76.04	1.19	0.12
g	2412	Ant1	75.31	1.23	0.12
g	2437	Ant1	75.1	1.24	0.12
g	2462	Ant1	76.04	1.19	0.12
n20	2412	Ant1	59.88	2.23	0.27
n20	2437	Ant1	60.12	2.21	0.27
n20	2462	Ant1	60.13	2.21	0.27
n40	2422	Ant1	57.79	2.38	0.28
n40	2437	Ant1	58.38	2.34	0.28
n40	2452	Ant1	57.87	2.38	0.28
ax20	2412	Ant1	57.64	2.39	0.3
ax20	2437	Ant1	57.21	2.42	0.3
ax20	2462	Ant1	57.23	2.42	0.3
ax40	2422	Ant1	57.15	2.43	0.3
ax40	2437	Ant1	57.64	2.39	0.3
ax40	2452	Ant1	57.63	2.39	0.3
b	2412	Ant2	76.58	1.16	0.12
b	2437	Ant2	77.59	1.1	0.12
b	2462	Ant2	76.09	1.19	0.12
g	2412	Ant2	76.58	1.16	0.12
g	2437	Ant2	77.59	1.1	0.12
g	2462	Ant2	76.09	1.19	0.12
n20	2412	Ant2	60.13	2.21	0.27
n20	2437	Ant2	60.08	2.21	0.27
n20	2462	Ant2	60.12	2.21	0.27
n40	2422	Ant2	59.63	2.25	0.28
n40	2437	Ant2	59.67	2.24	0.28
n40	2452	Ant2	59.35	2.27	0.28
ax20	2412	Ant2	57.64	2.39	0.3
ax20	2437	Ant2	57.51	2.4	0.3
ax20	2462	Ant2	57.23	2.42	0.3
ax40	2422	Ant2	57.63	2.39	0.3
ax40	2437	Ant2	57.63	2.39	0.3
ax40	2452	Ant2	57.16	2.43	0.3

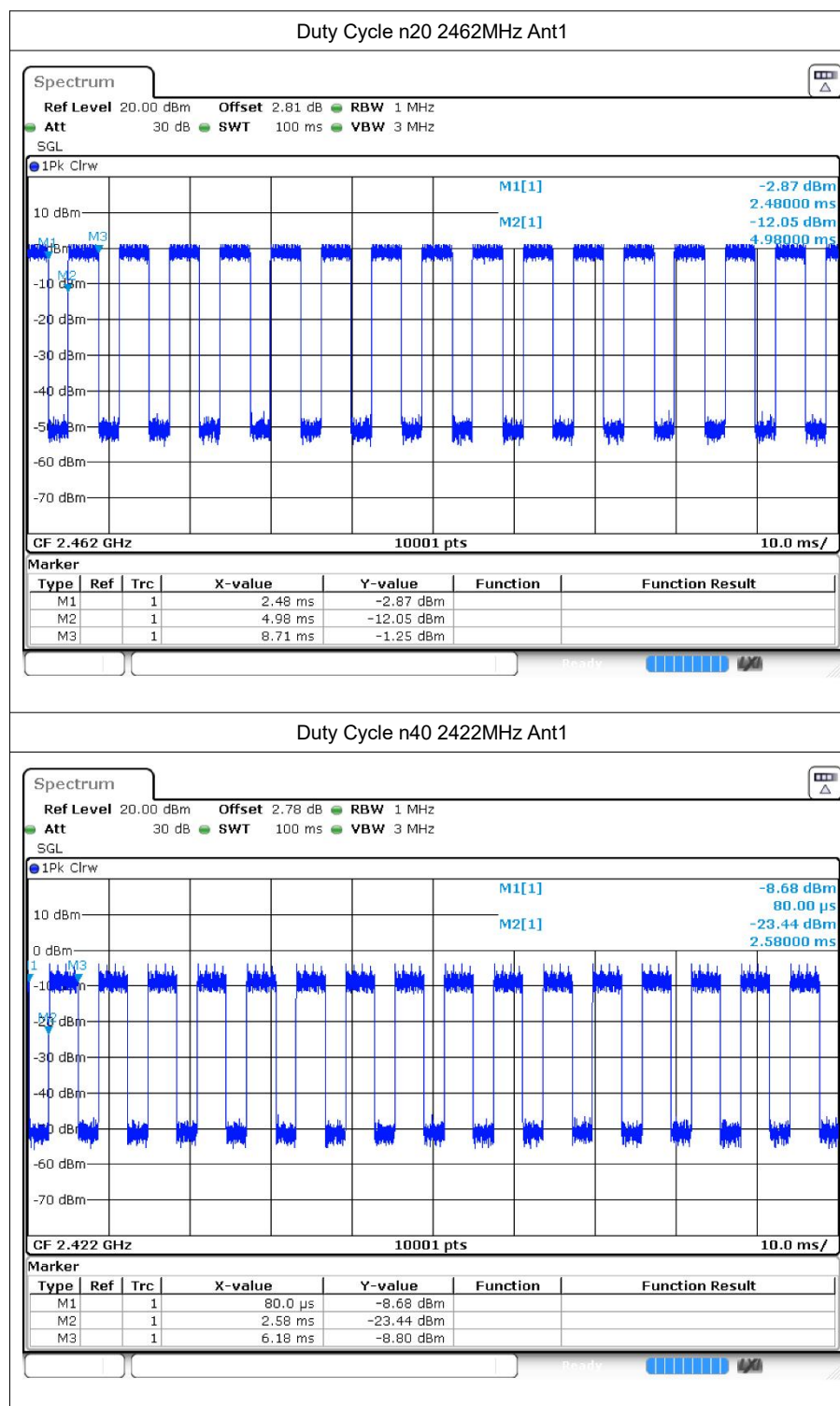
1.2 Test Graphs

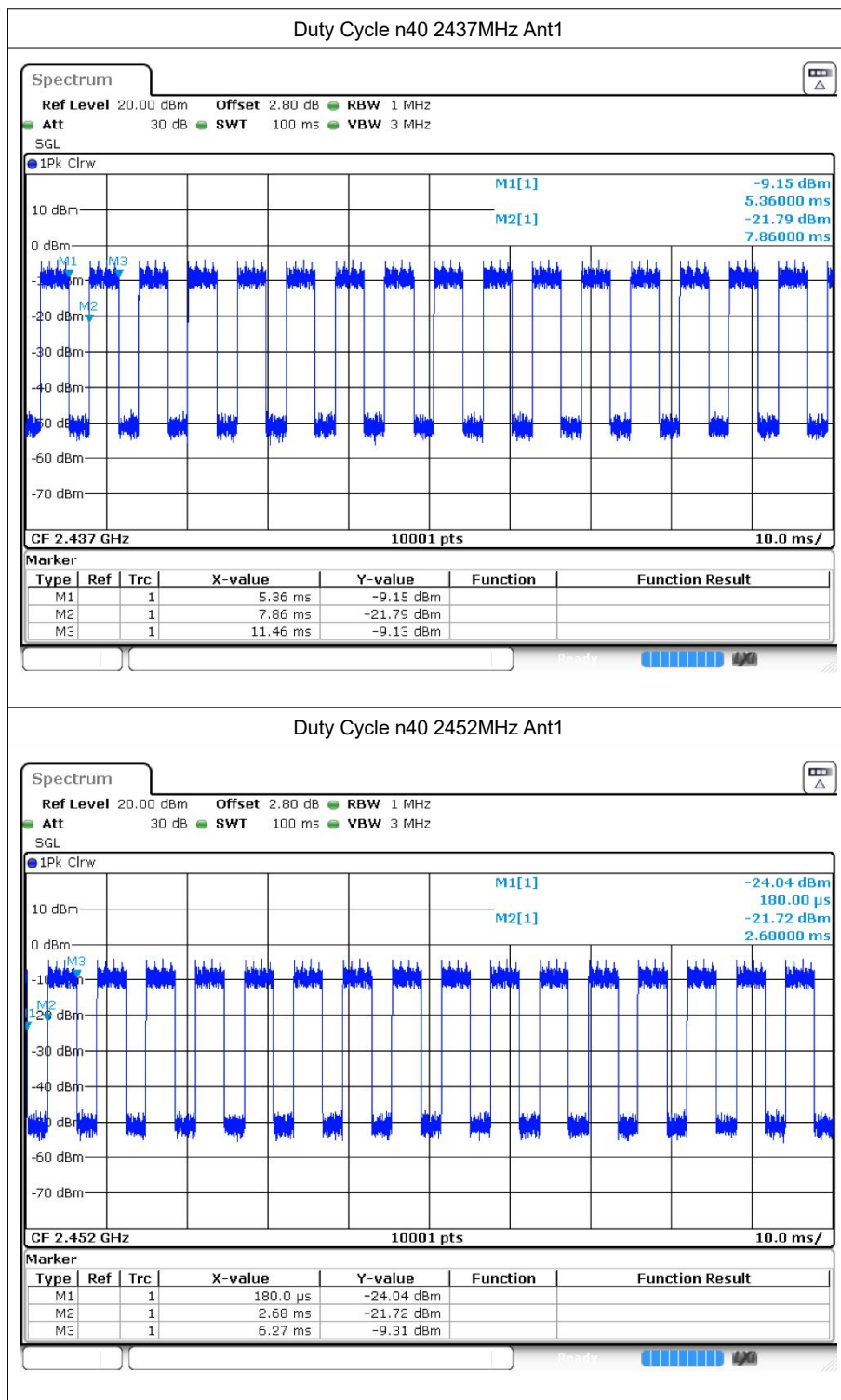






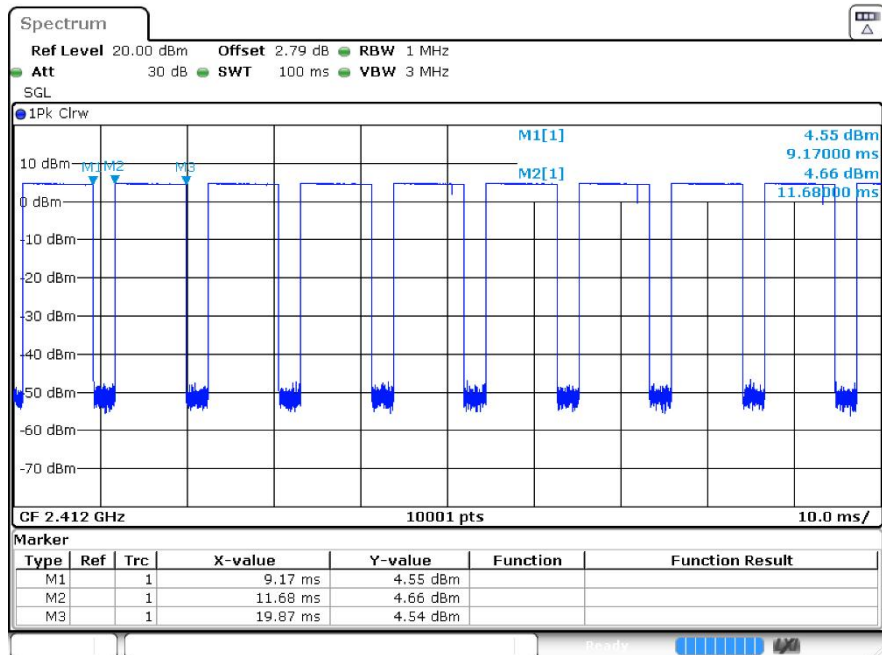




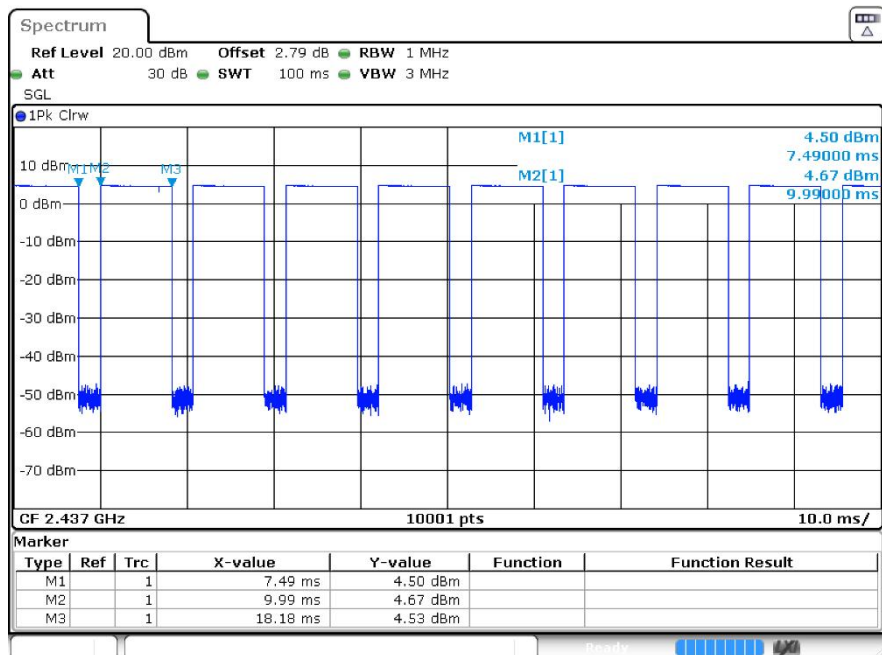


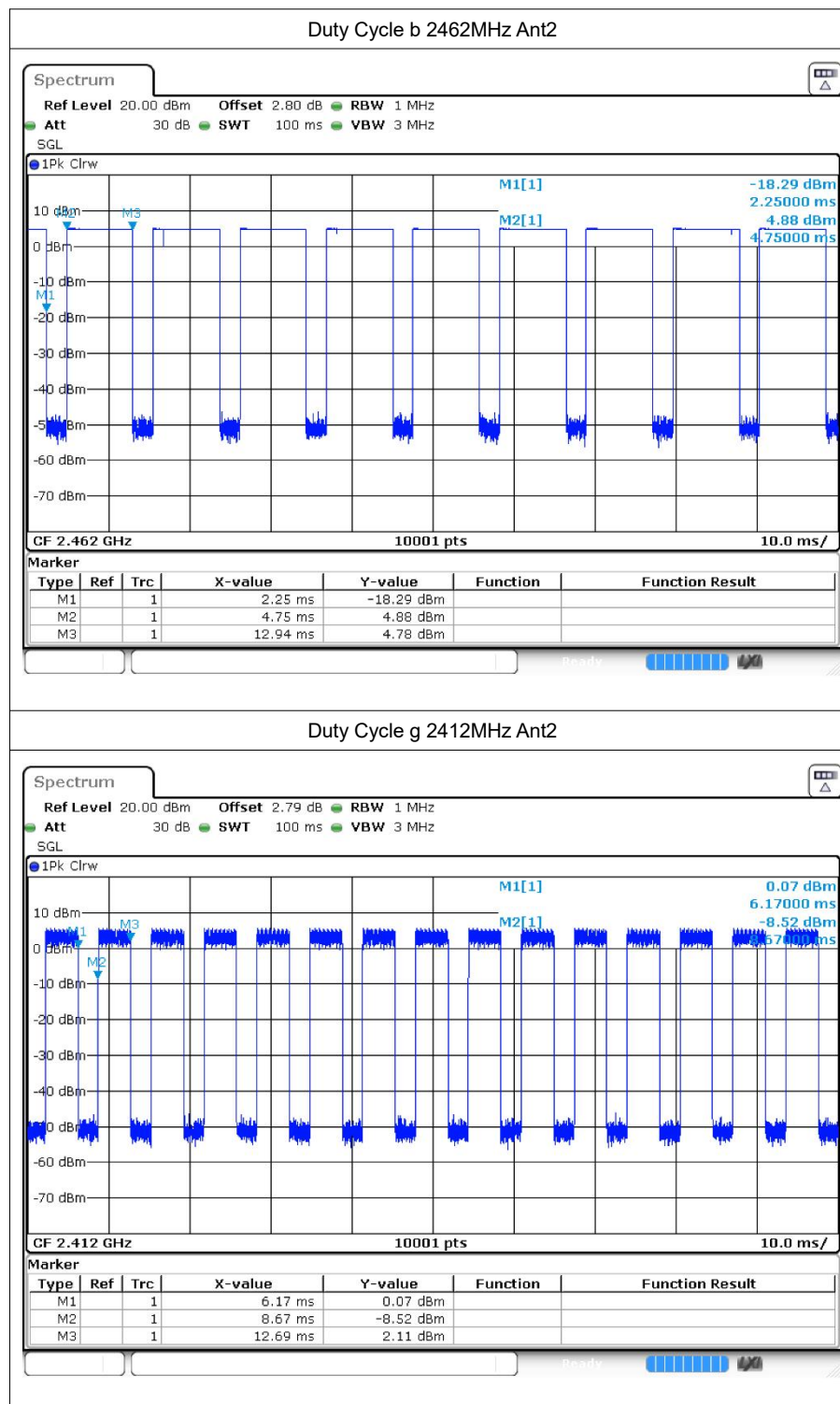
Test Graphs

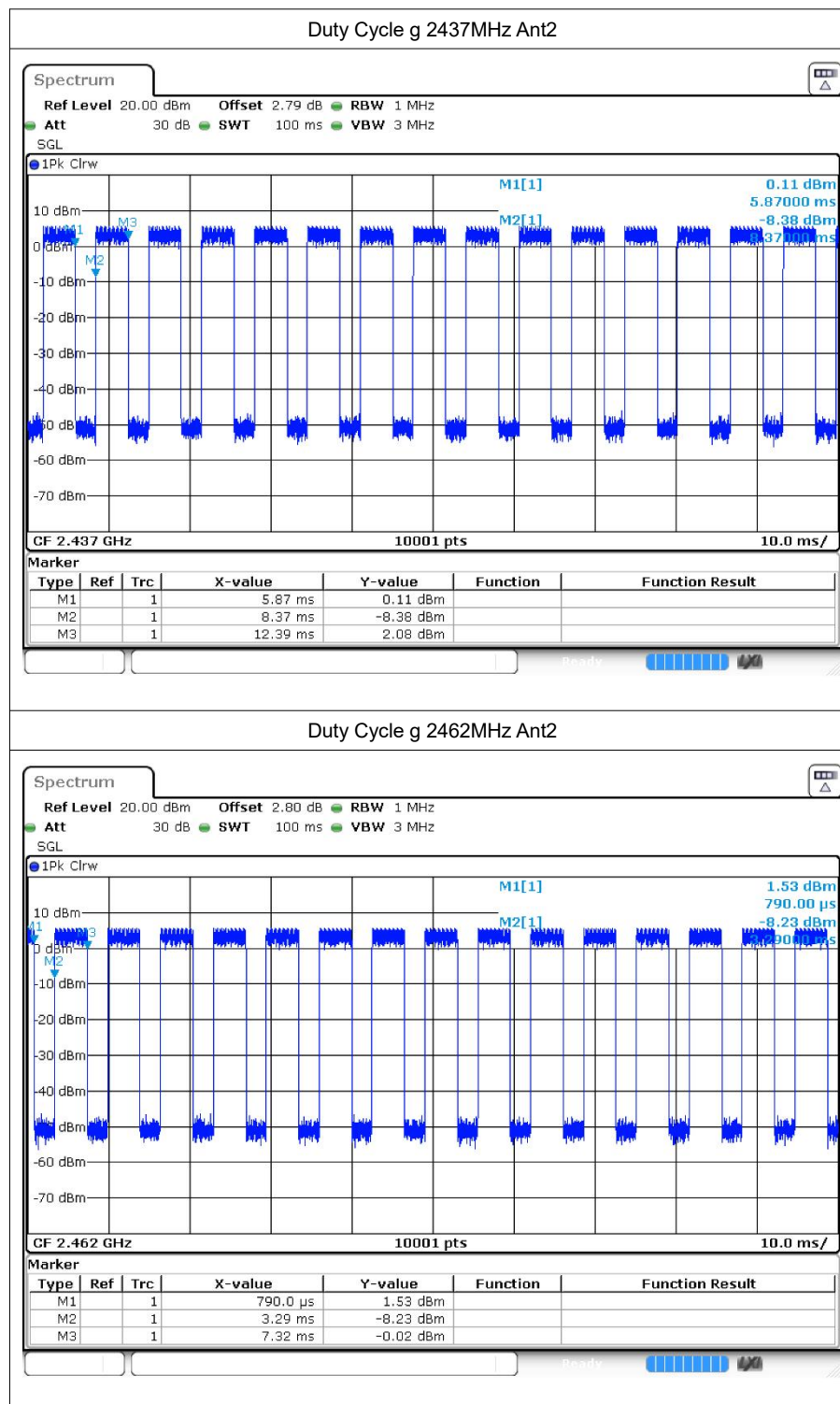
Duty Cycle b 2412MHz Ant2

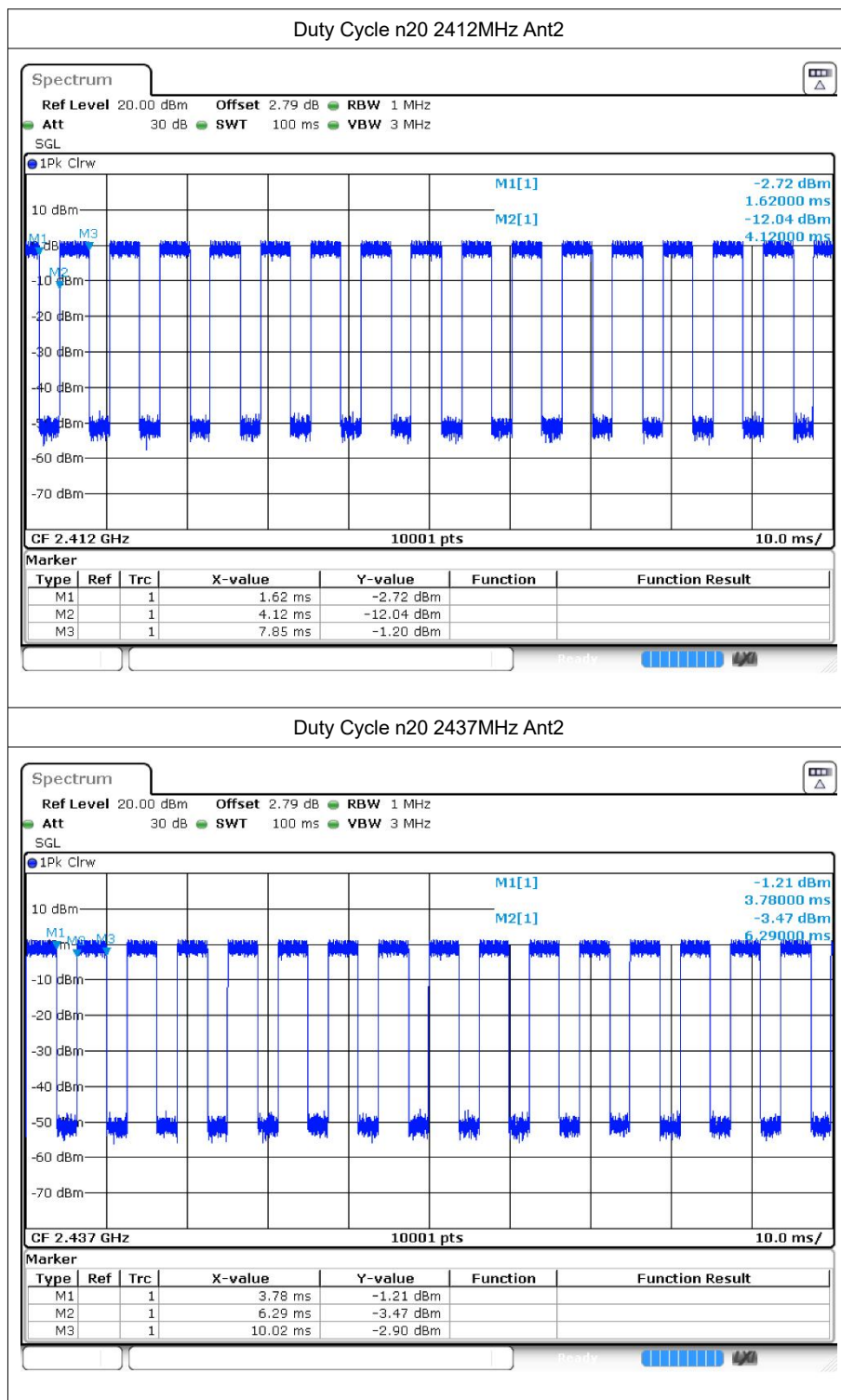


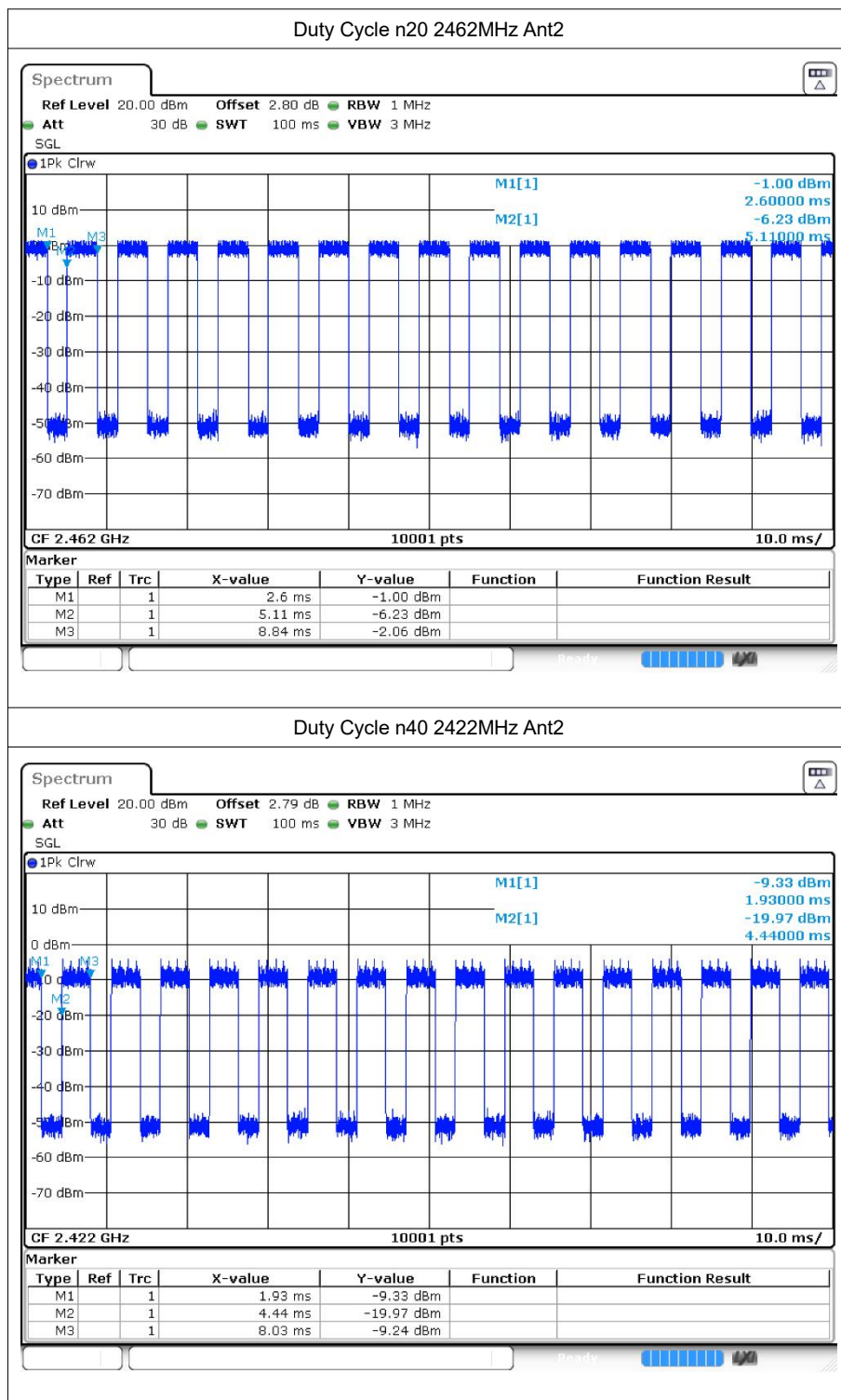
Duty Cycle b 2437MHz Ant2

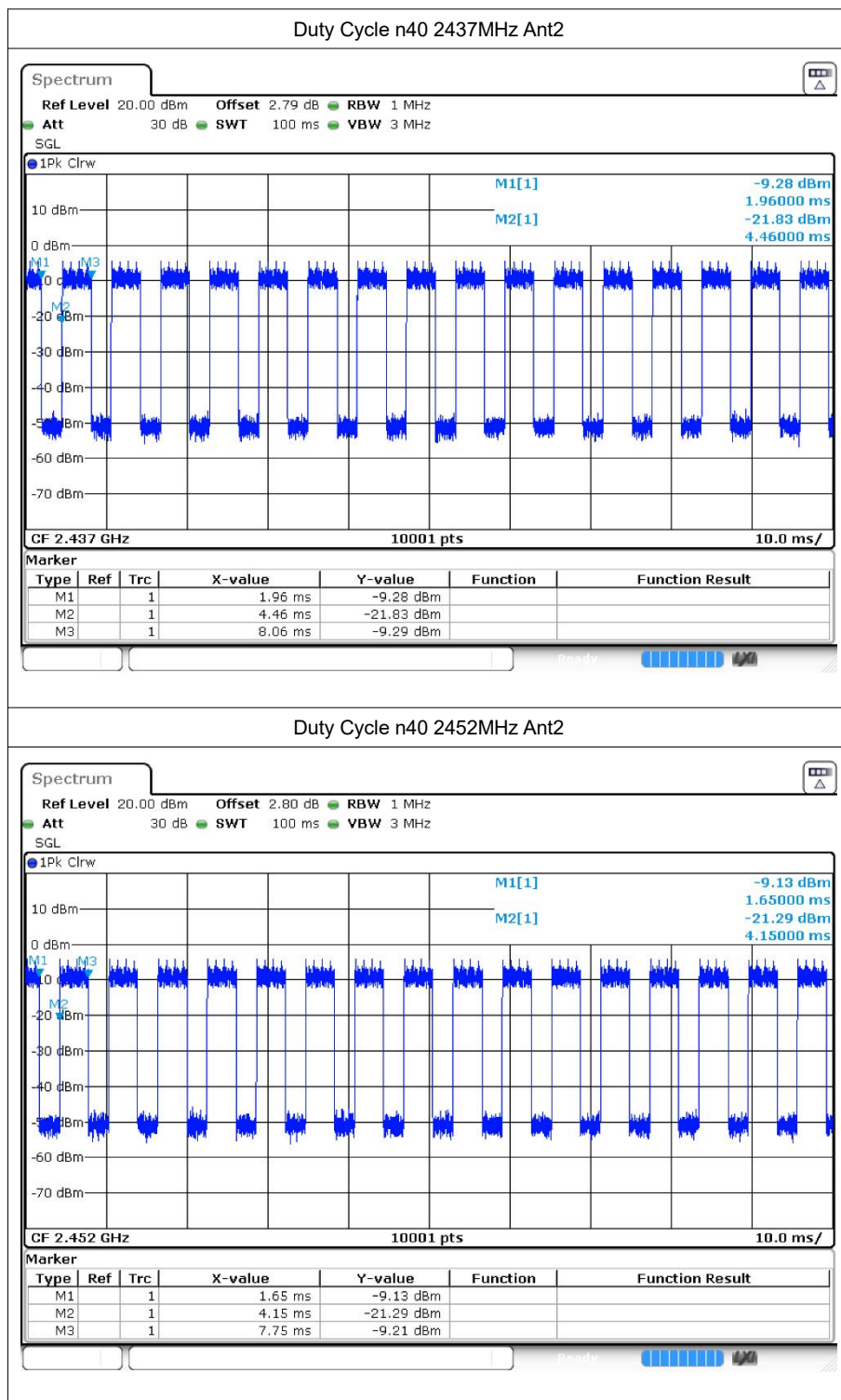




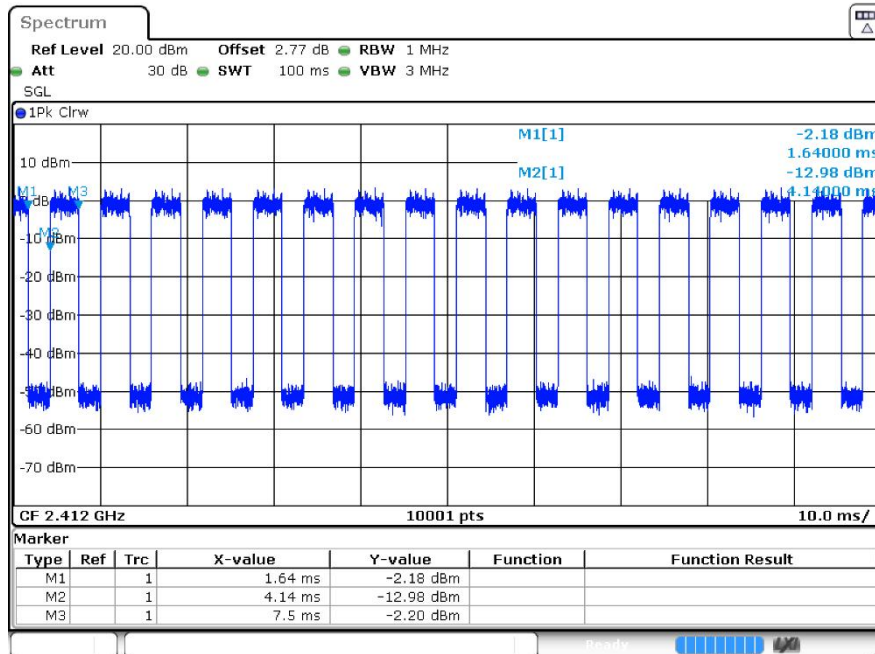




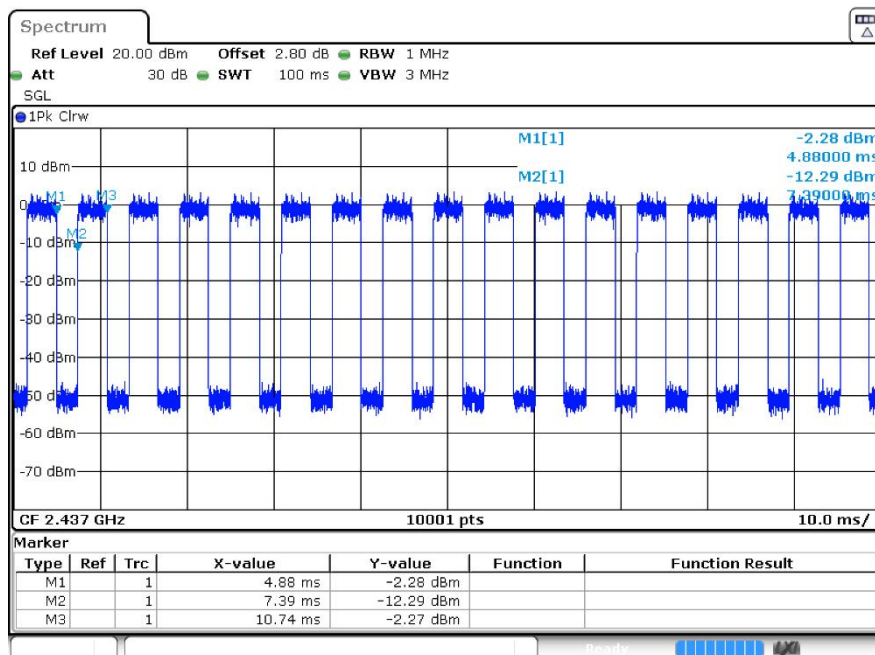


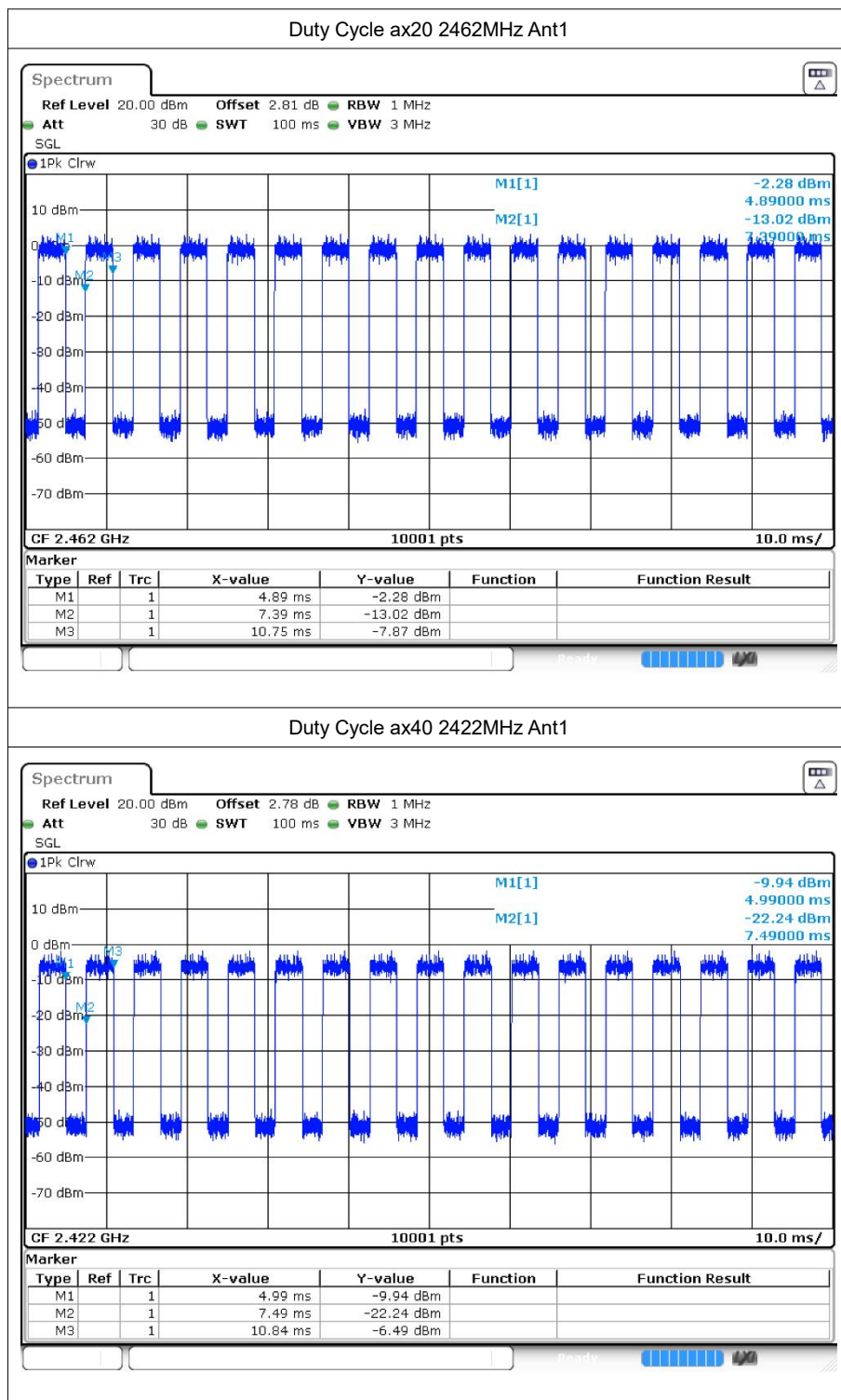


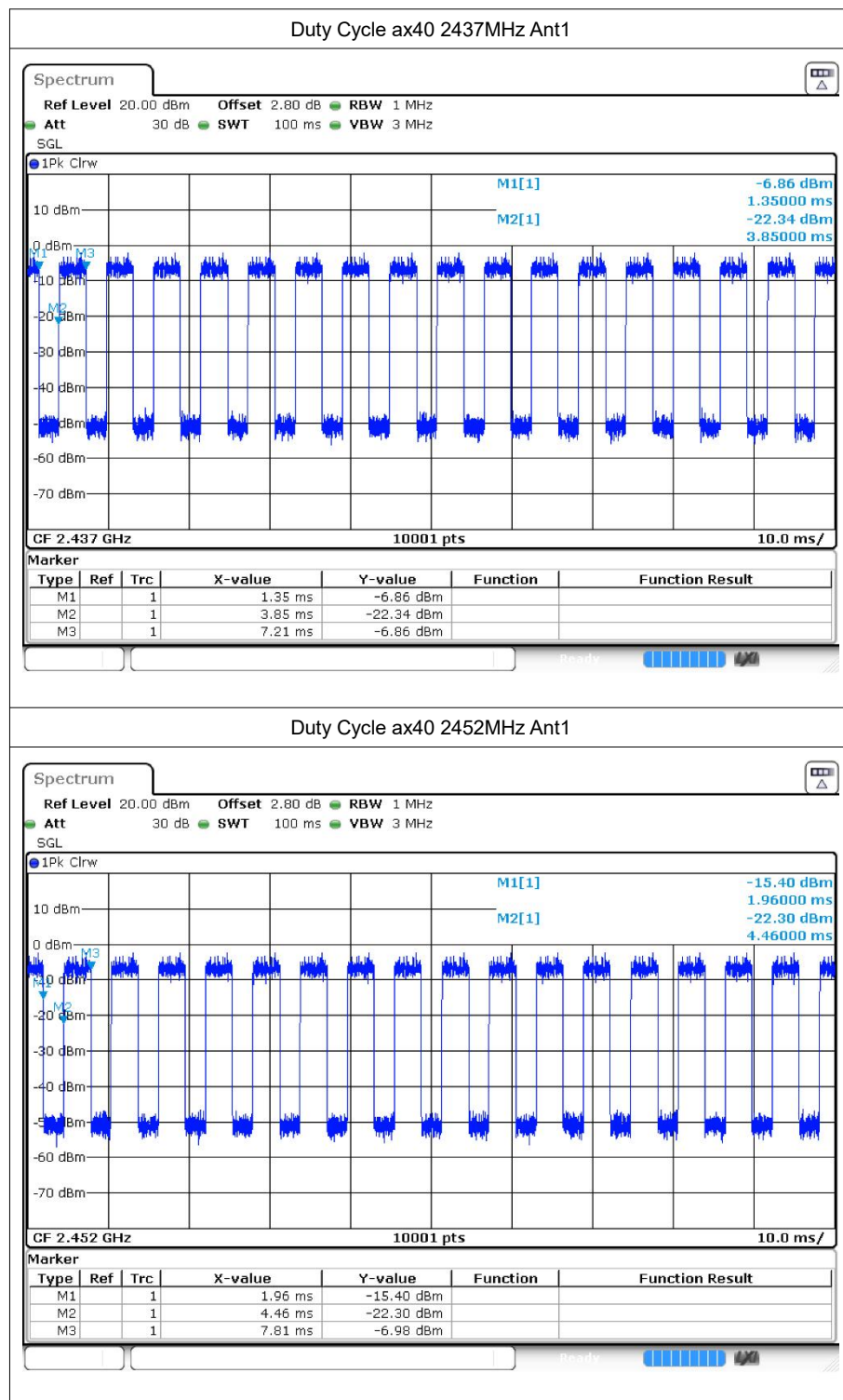
Duty Cycle ax20 2412MHz Ant1

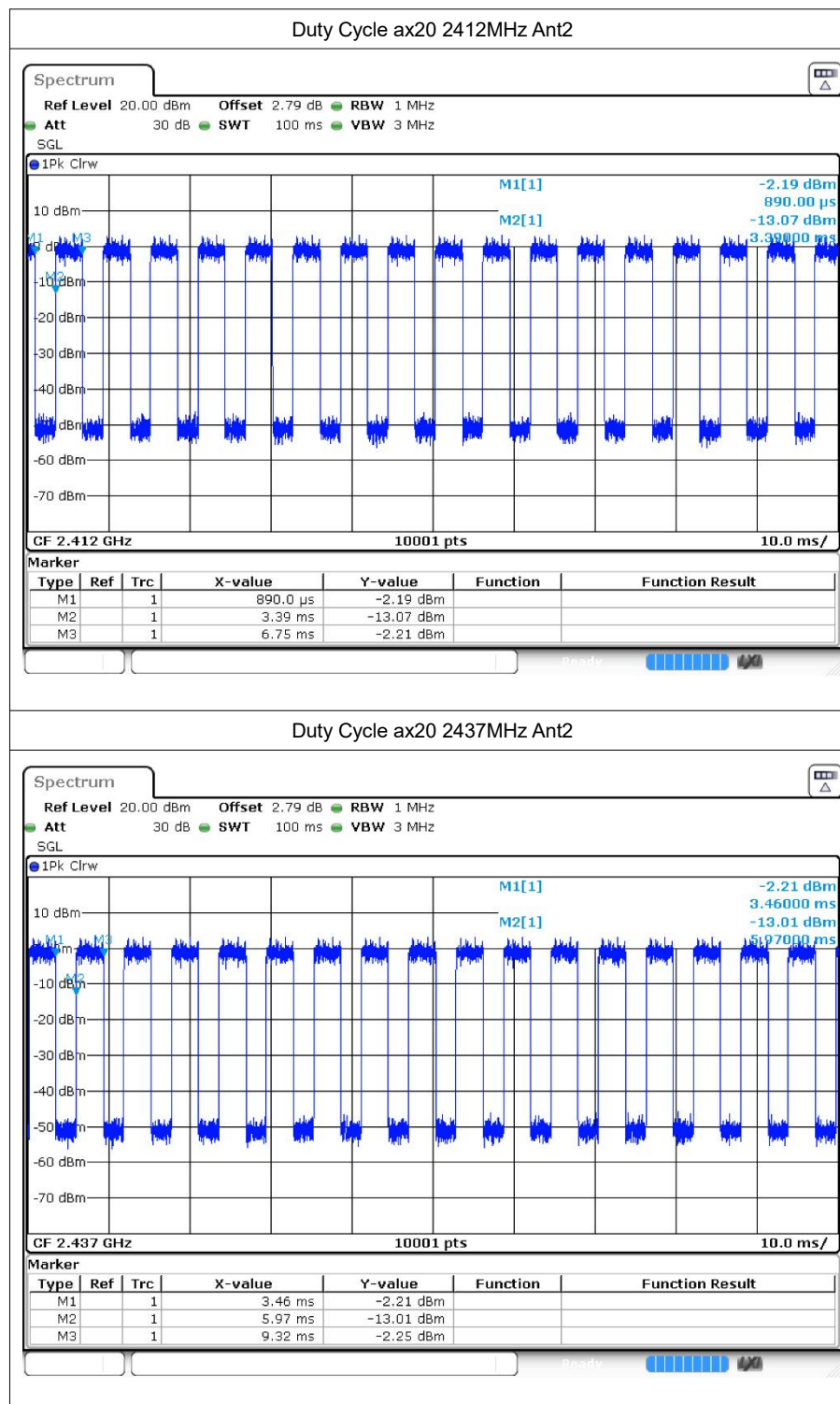


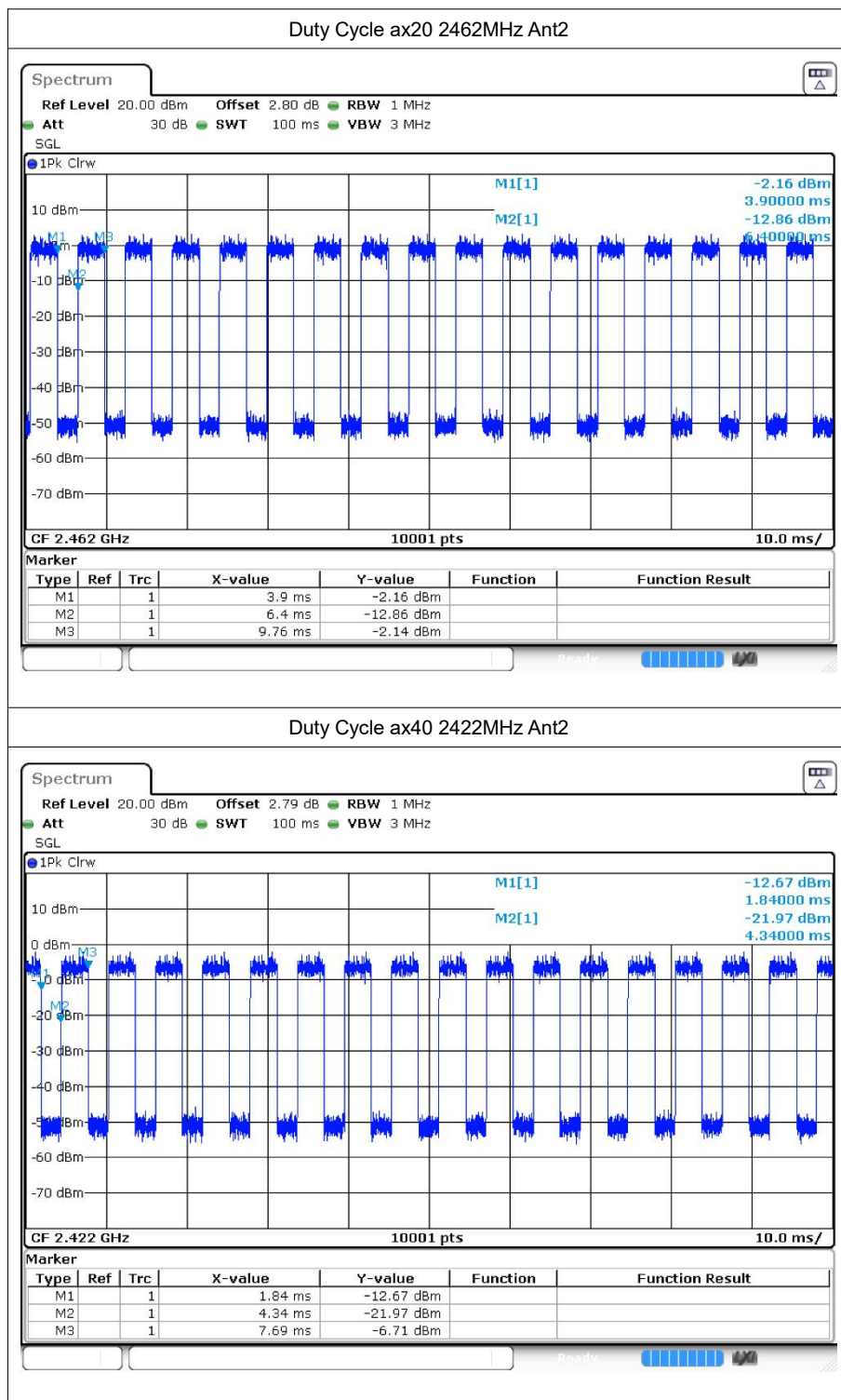
Duty Cycle ax20 2437MHz Ant1

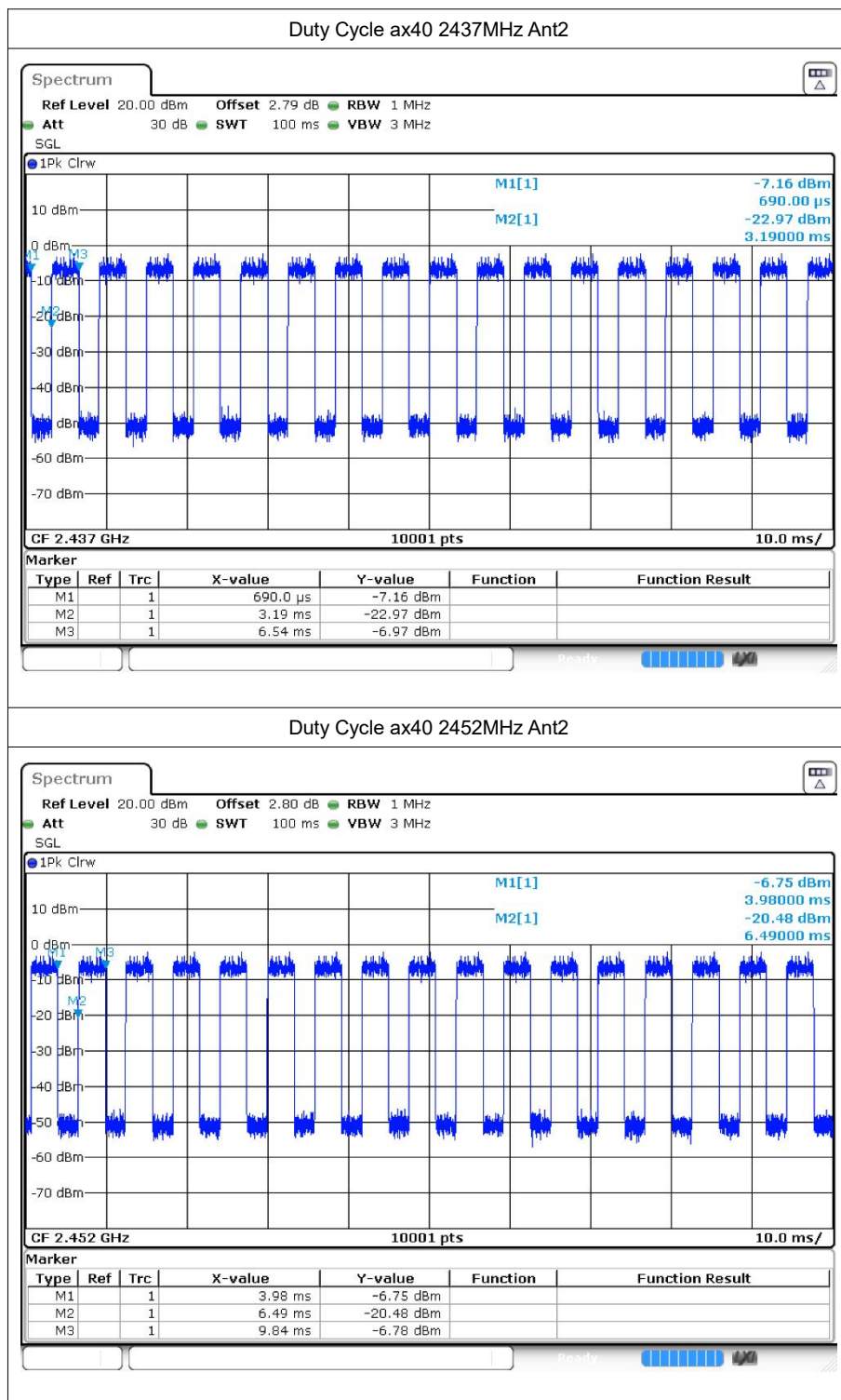












2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant1	15.51	30	Pass
b	2437	Ant1	15.57	30	Pass
b	2462	Ant1	15.37	30	Pass
b	2412	Ant2	15.43	30	Pass
b	2437	Ant2	15.4	30	Pass
b	2462	Ant2	15.56	30	Pass
g	2412	Ant1	14.87	30	Pass
g	2437	Ant1	14.88	30	Pass
g	2462	Ant1	14.73	30	Pass
g	2412	Ant2	14.79	30	Pass
g	2437	Ant2	14.77	30	Pass
g	2462	Ant2	14.78	30	Pass
n20	2412	Ant1	11.21	30	Pass
n20	2437	Ant1	11.12	30	Pass
n20	2462	Ant1	10.94	30	Pass
n20	2412	Ant2	11.01	30	Pass
n20	2437	Ant2	10.93	30	Pass
n20	2462	Ant2	11.27	30	Pass
n20	2412	Sum	14.12	29.86	Pass
n20	2437	Sum	14.04	29.86	Pass
n20	2462	Sum	14.12	29.86	Pass
n40	2422	Ant1	11.24	30	Pass
n40	2437	Ant1	11.04	30	Pass
n40	2452	Ant1	10.89	30	Pass
n40	2422	Ant2	11.09	30	Pass
n40	2437	Ant2	10.98	30	Pass
n40	2452	Ant2	11.02	30	Pass
n40	2422	Sum	14.18	29.86	Pass
n40	2437	Sum	14.02	29.86	Pass
n40	2452	Sum	13.97	29.86	Pass
ax20	2412	Ant1	11.06	30	Pass
ax20	2437	Ant1	10.95	30	Pass



ax20	2462	Ant1	11.02	30	Pass
ax20	2412	Ant2	11.1	30	Pass
ax20	2437	Ant2	10.89	30	Pass
ax20	2462	Ant2	11.03	30	Pass
ax20	2412	Sum	14.09	29.86	Pass
ax20	2437	Sum	13.93	29.86	Pass
ax20	2462	Sum	14.04	29.86	Pass
ax40	2422	Ant1	11.05	30	Pass
ax40	2437	Ant1	10.8	30	Pass
ax40	2452	Ant1	10.87	30	Pass
ax40	2422	Ant2	11.12	30	Pass
ax40	2437	Ant2	10.94	30	Pass
ax40	2452	Ant2	10.82	30	Pass
ax40	2422	Sum	14.10	29.86	Pass
ax40	2437	Sum	13.88	29.86	Pass
ax40	2452	Sum	13.86	29.86	Pass

Note: The Directional Gain is 6.14dBi, exceeding 0.14dBi. The limit value is $30 - 0.14 = 29.86\text{dBm}$

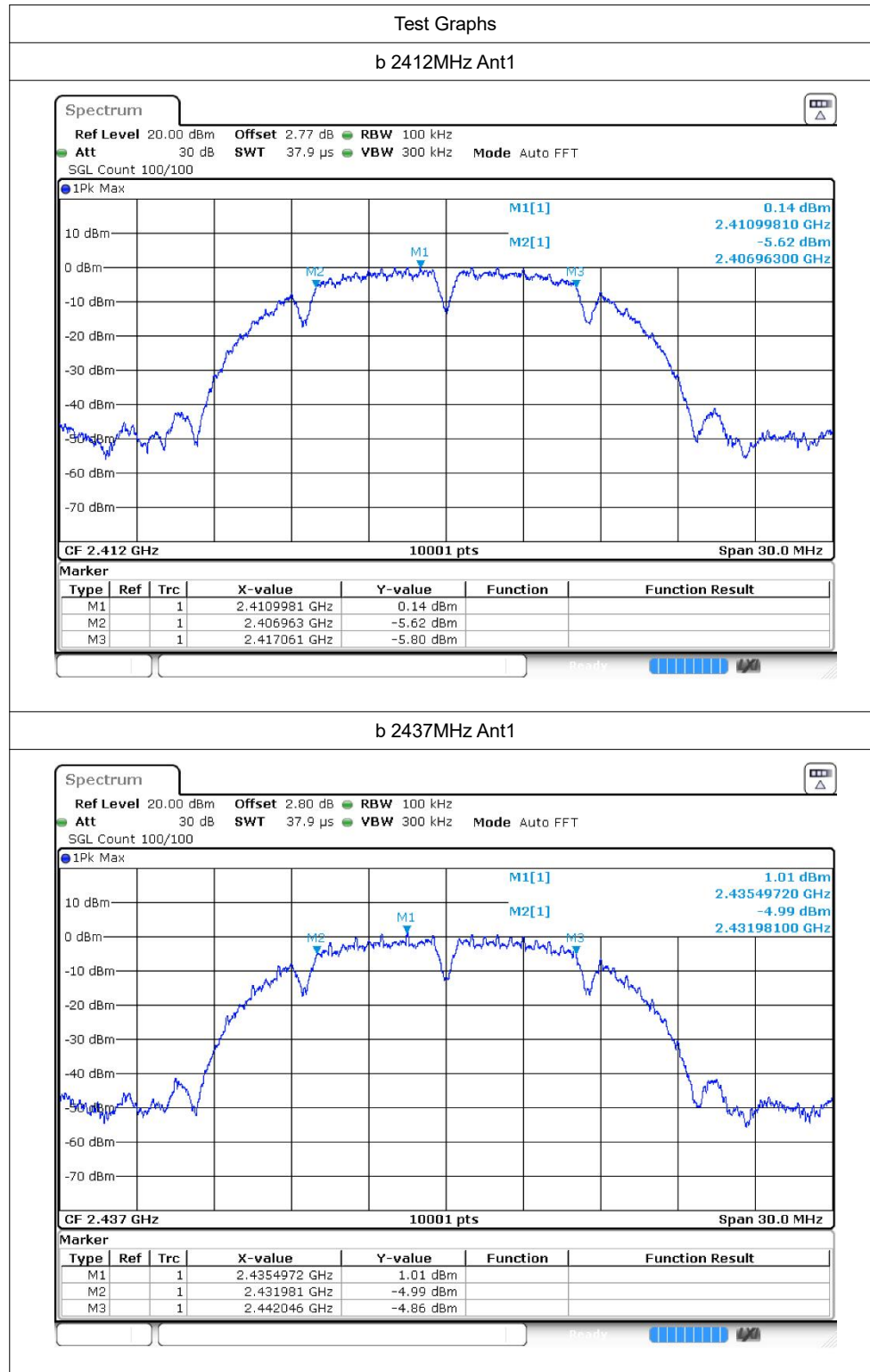


3 -6dB Bandwidth

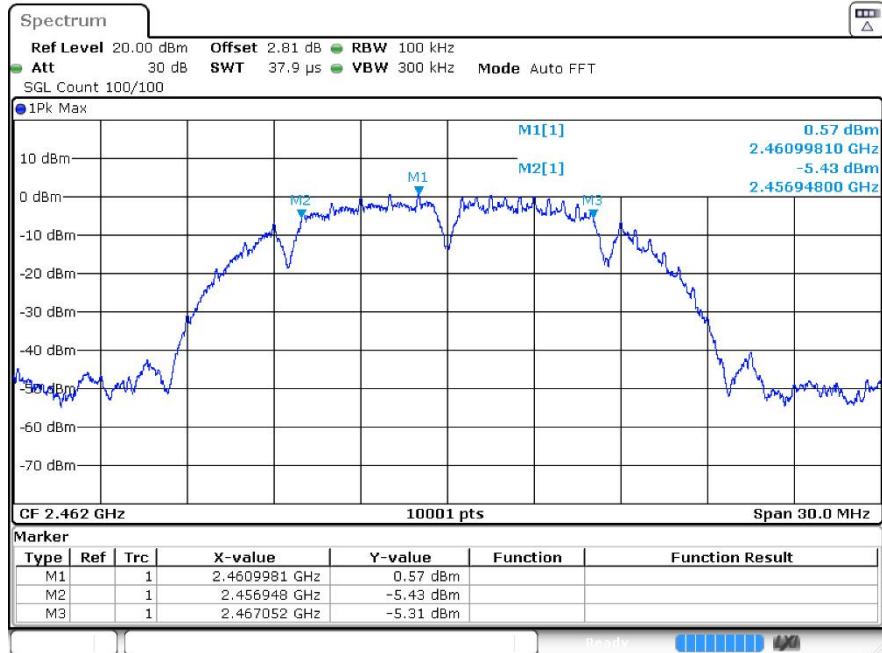
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	10.098	0.5	Pass
b	2437	Ant1	10.065	0.5	Pass
b	2462	Ant1	10.104	0.5	Pass
g	2412	Ant1	16.317	0.5	Pass
g	2437	Ant1	16.326	0.5	Pass
g	2462	Ant1	16.317	0.5	Pass
n20	2412	Ant1	17.175	0.5	Pass
n20	2437	Ant1	14.676	0.5	Pass
n20	2462	Ant1	15.117	0.5	Pass
n40	2422	Ant1	34.008	0.5	Pass
n40	2437	Ant1	35.658	0.5	Pass
n40	2452	Ant1	36.3	0.5	Pass
ax20	2412	Ant1	18.009	0.5	Pass
ax20	2437	Ant1	15.108	0.5	Pass
ax20	2462	Ant1	18.09	0.5	Pass
ax40	2422	Ant1	37.338	0.5	Pass
ax40	2437	Ant1	37.074	0.5	Pass
ax40	2452	Ant1	38.01	0.5	Pass
b	2412	Ant2	9.939	0.5	Pass
b	2437	Ant2	9.939	0.5	Pass
b	2462	Ant2	10.095	0.5	Pass
g	2412	Ant2	16.317	0.5	Pass
g	2437	Ant2	16.302	0.5	Pass
g	2462	Ant2	16.311	0.5	Pass
n20	2412	Ant2	17.181	0.5	Pass
n20	2437	Ant2	17.541	0.5	Pass
n20	2462	Ant2	17.541	0.5	Pass
n40	2422	Ant2	36.276	0.5	Pass
n40	2437	Ant2	35.322	0.5	Pass
n40	2452	Ant2	36.276	0.5	Pass
ax20	2412	Ant2	18.225	0.5	Pass
ax20	2437	Ant2	17.466	0.5	Pass
ax20	2462	Ant2	18.624	0.5	Pass
ax40	2422	Ant2	37.854	0.5	Pass
ax40	2437	Ant2	37.716	0.5	Pass
ax40	2452	Ant2	37.98	0.5	Pass

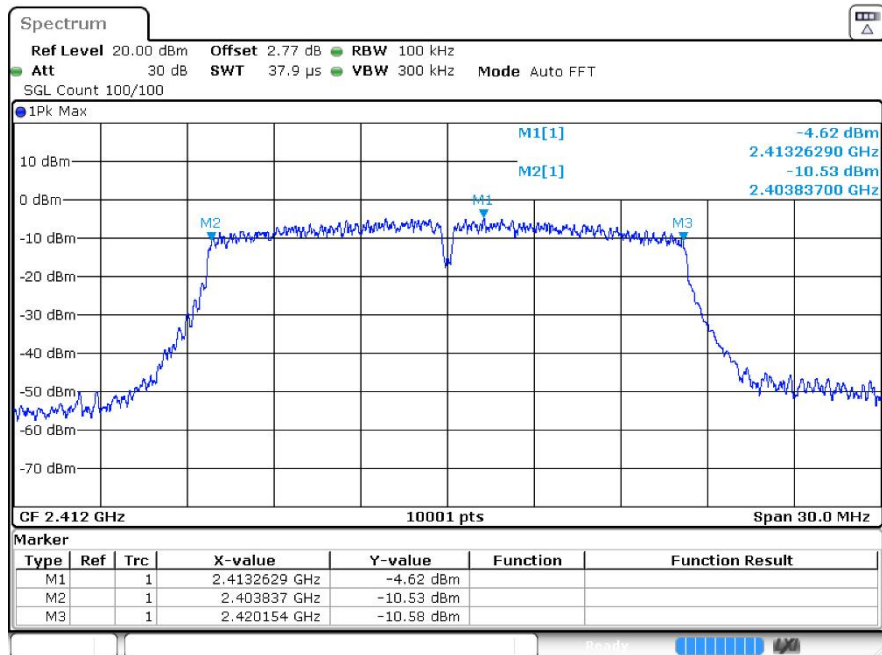
3.2 Test Graphs



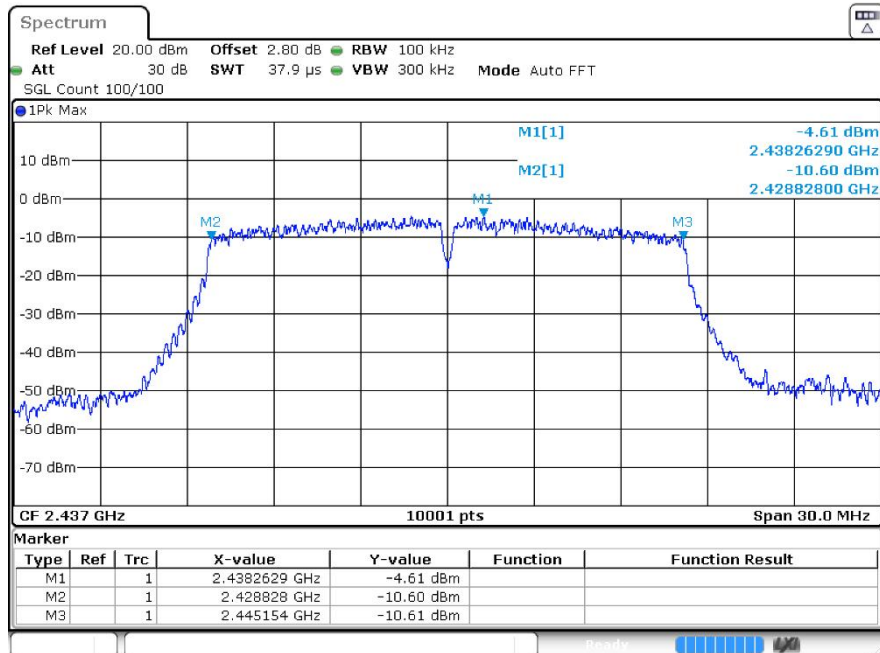
b 2462MHz Ant1



g 2412MHz Ant1



g 2437MHz Ant1



g 2462MHz Ant1

