



Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: AI Translation

Trade Mark: N/A

Test Model: T20

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

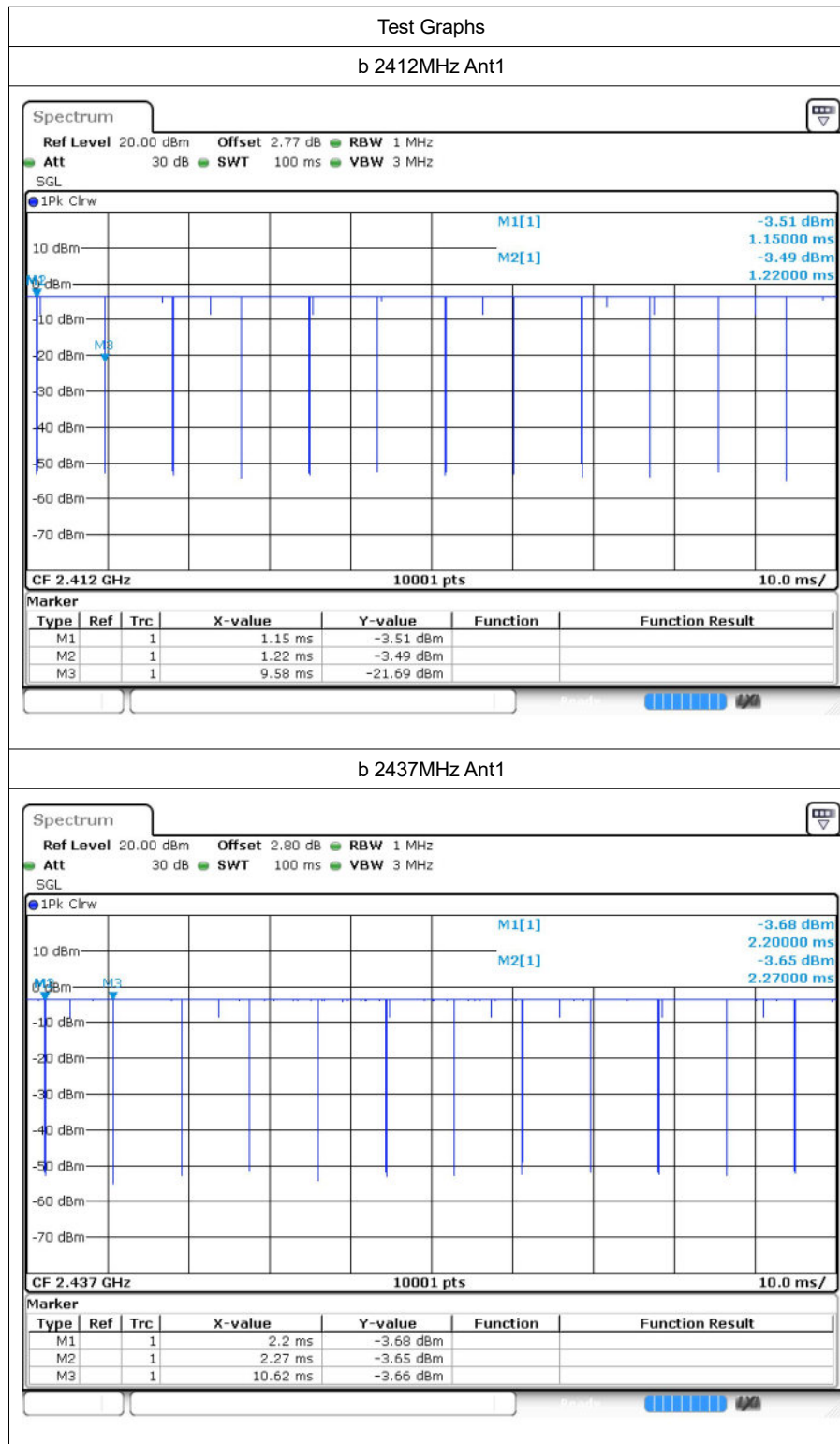


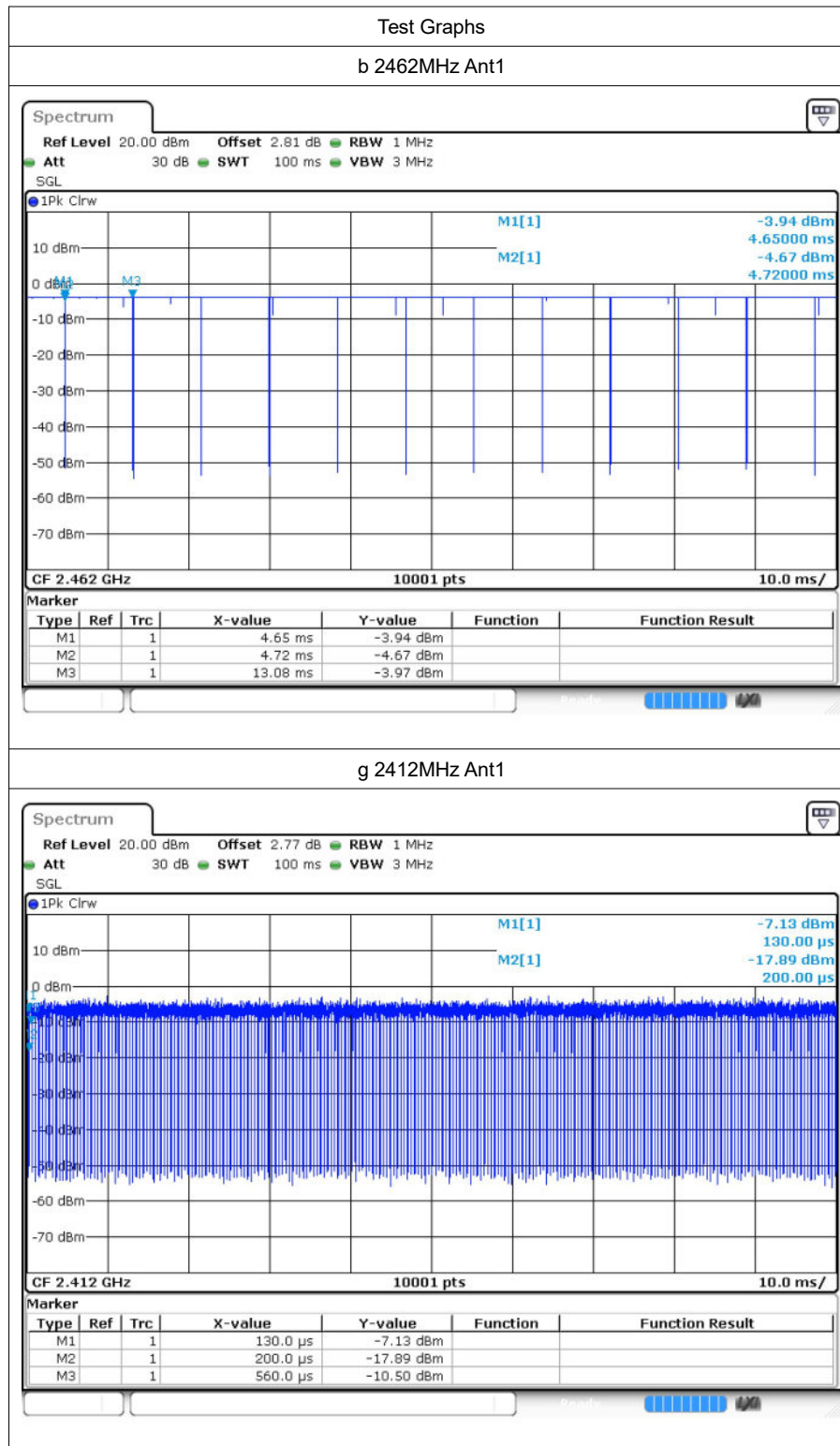
1 Duty Cycle

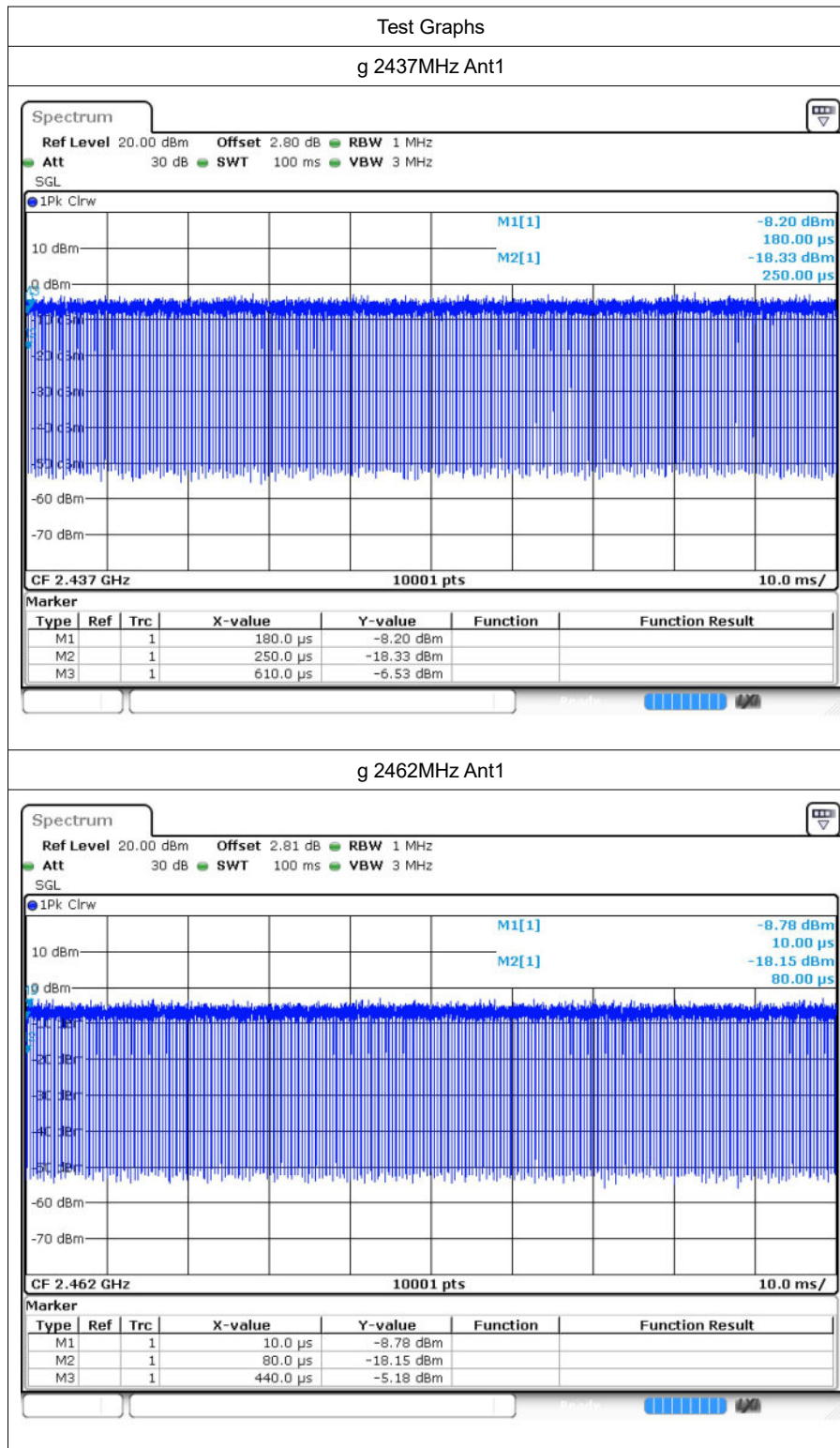
1.1 Test Result

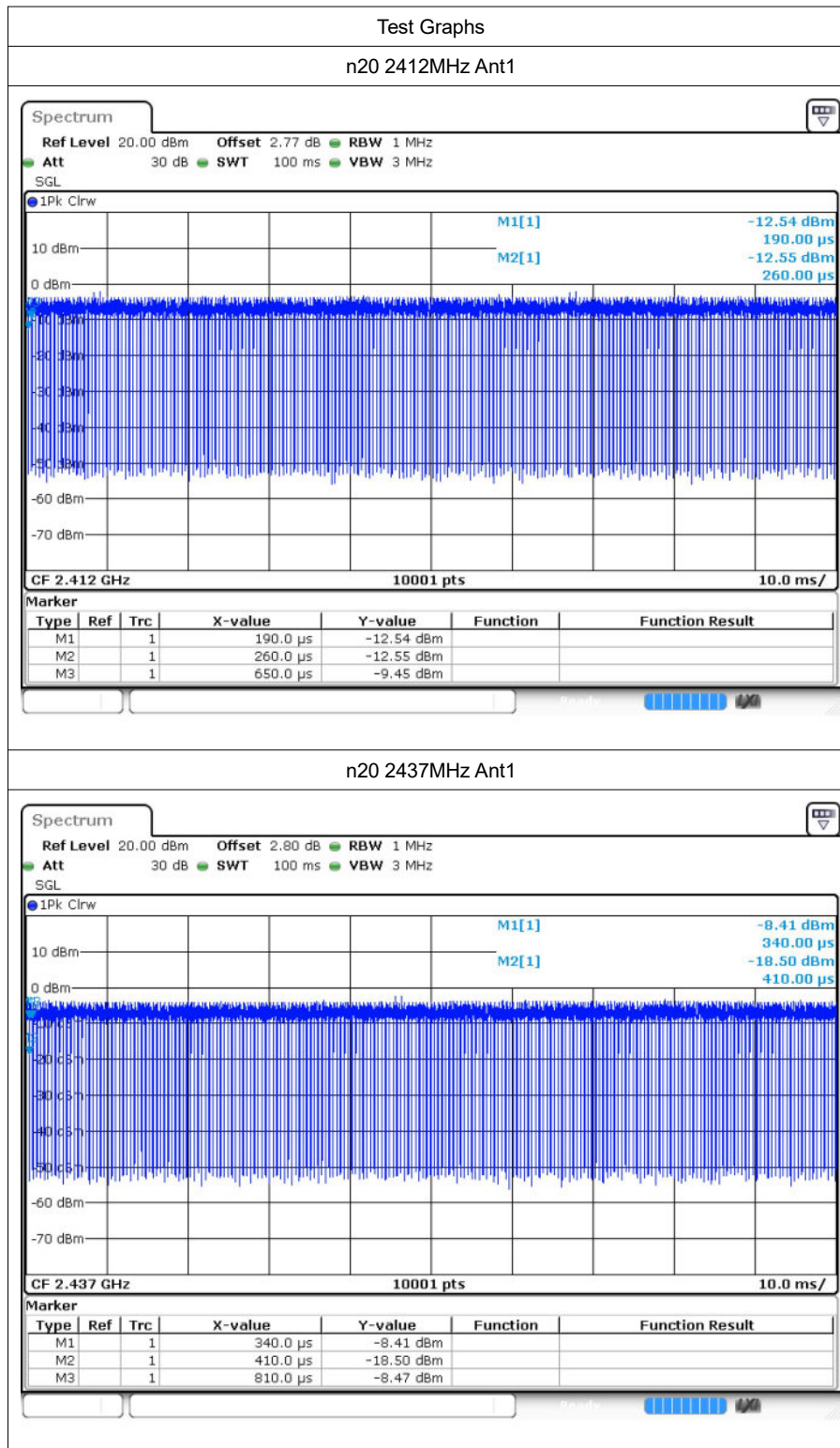
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor	1/T (kHz)
b	2412	Ant1	99.29	0.03	0.12
b	2437	Ant1	99.3	0.03	0.12
b	2462	Ant1	99.28	0.03	0.12
g	2412	Ant1	86.02	0.65	2.78
g	2437	Ant1	86.25	0.64	2.78
g	2462	Ant1	86.02	0.65	2.78
n20	2412	Ant1	86.89	0.61	2.56
n20	2437	Ant1	86.89	0.61	2.5
n20	2462	Ant1	86.9	0.61	2.56

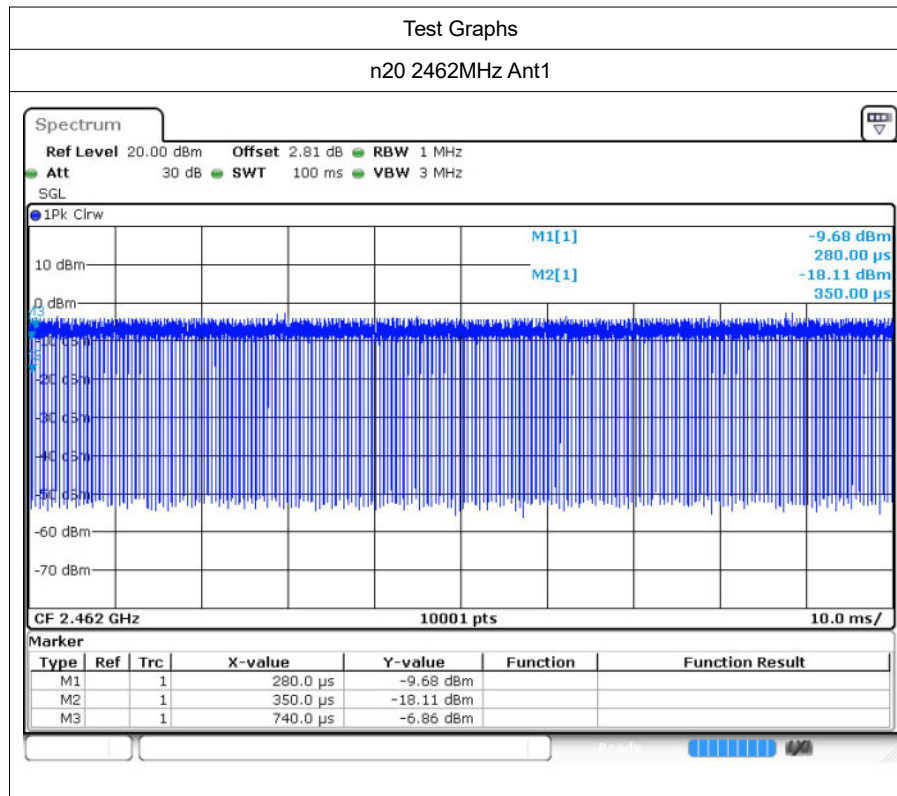
1.2 Test Graphs













2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant1	6.9	30	Pass
b	2437	Ant1	6.81	30	Pass
b	2462	Ant1	6.67	30	Pass
g	2412	Ant1	6.69	30	Pass
g	2437	Ant1	6.65	30	Pass
g	2462	Ant1	6.4	30	Pass
n20	2412	Ant1	6.76	30	Pass
n20	2437	Ant1	6.44	30	Pass
n20	2462	Ant1	6.32	30	Pass

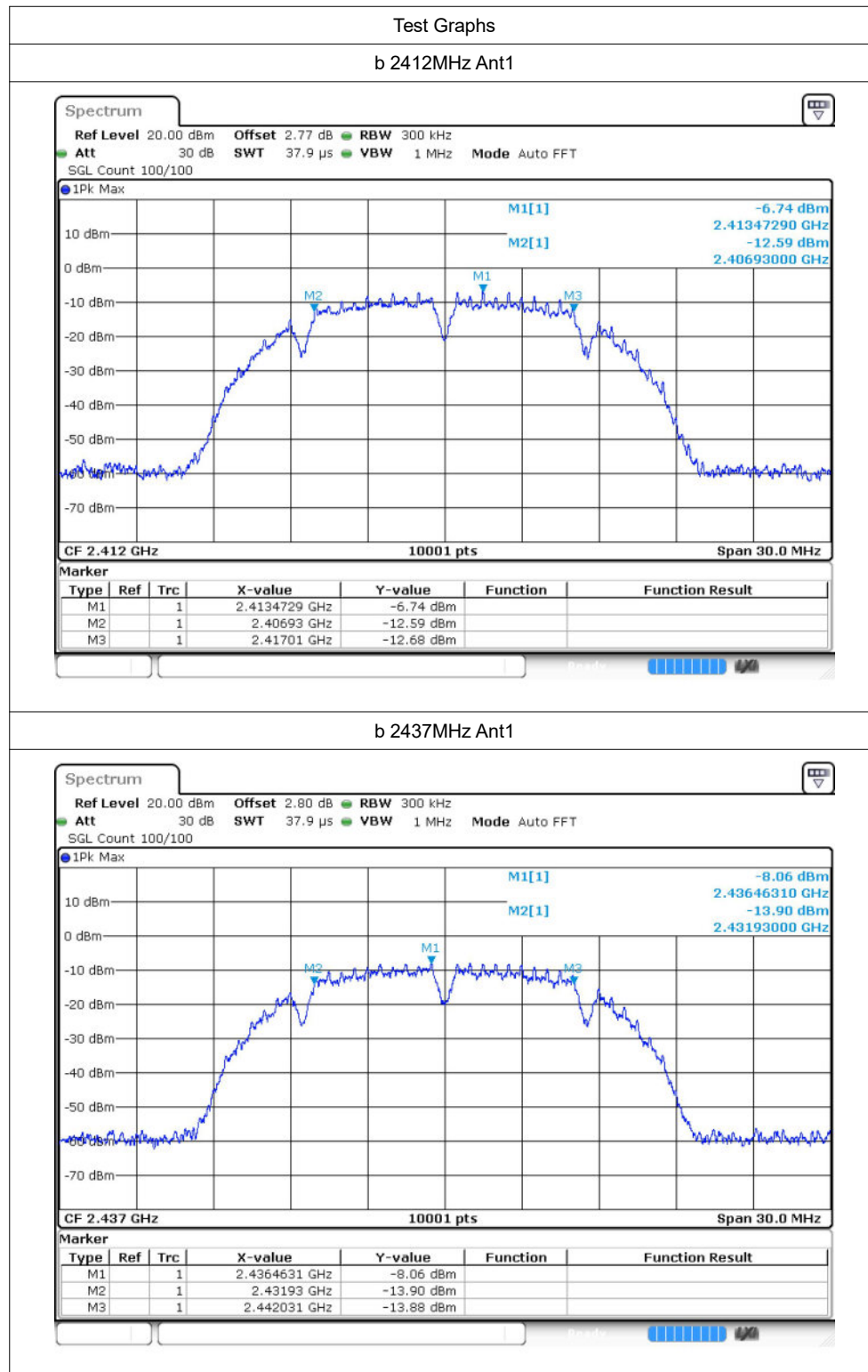


3 -6dB Bandwidth

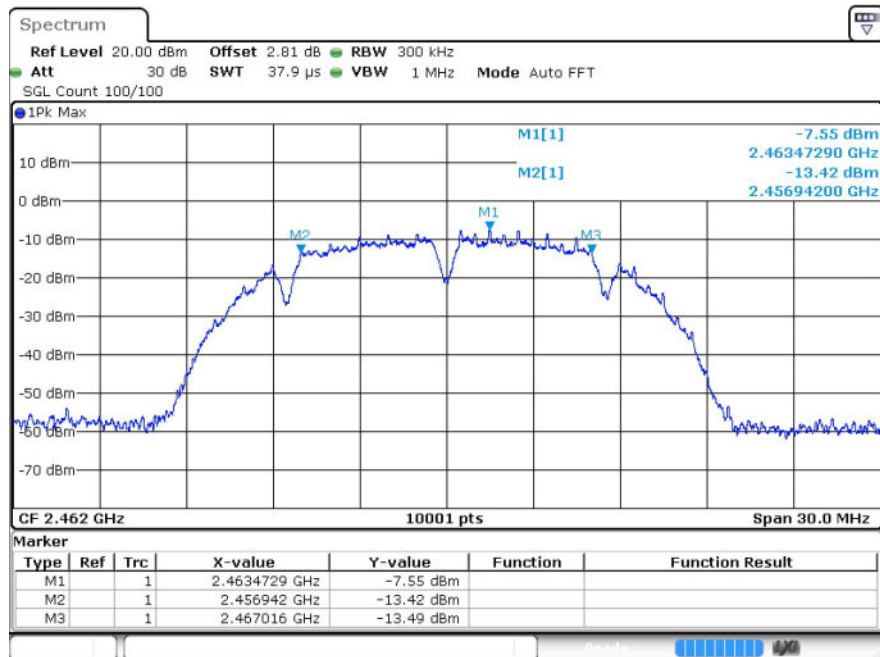
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	10.08	0.5	Pass
b	2437	Ant1	10.101	0.5	Pass
b	2462	Ant1	10.074	0.5	Pass
g	2412	Ant1	13.191	0.5	Pass
g	2437	Ant1	14.013	0.5	Pass
g	2462	Ant1	16.314	0.5	Pass
n20	2412	Ant1	15.129	0.5	Pass
n20	2437	Ant1	15.102	0.5	Pass
n20	2462	Ant1	15.078	0.5	Pass

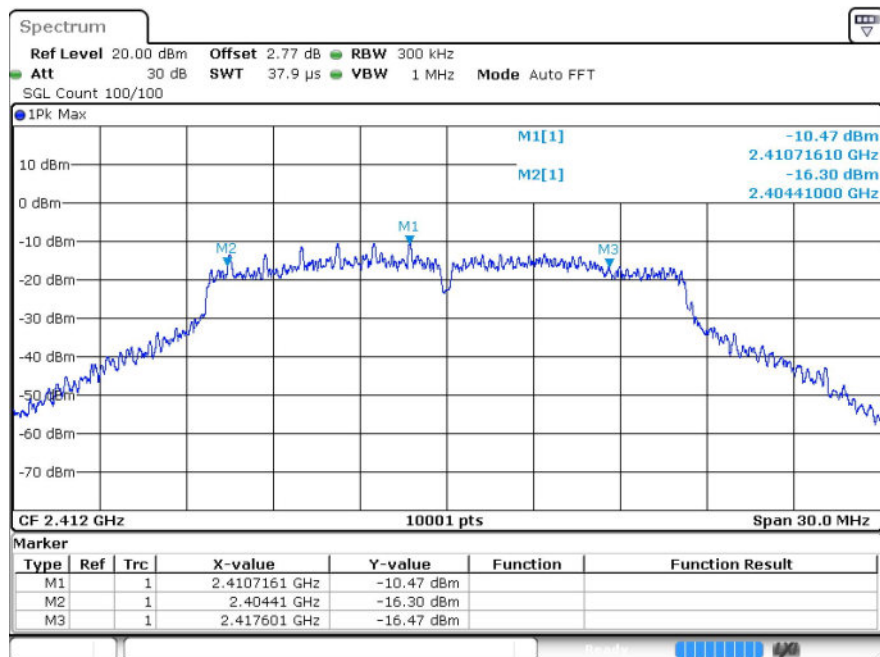
3.2 Test Graphs



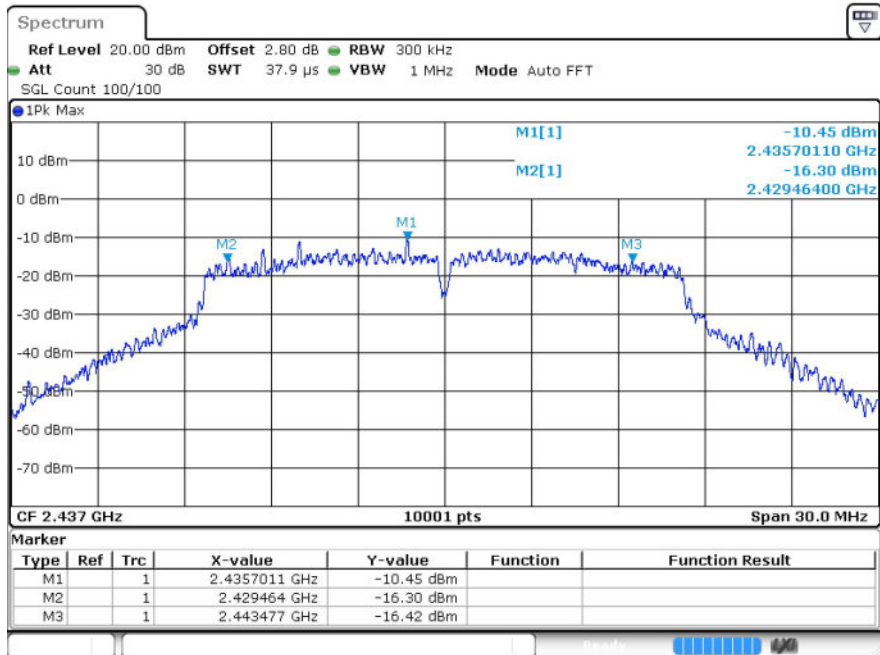
b 2462MHz Ant1



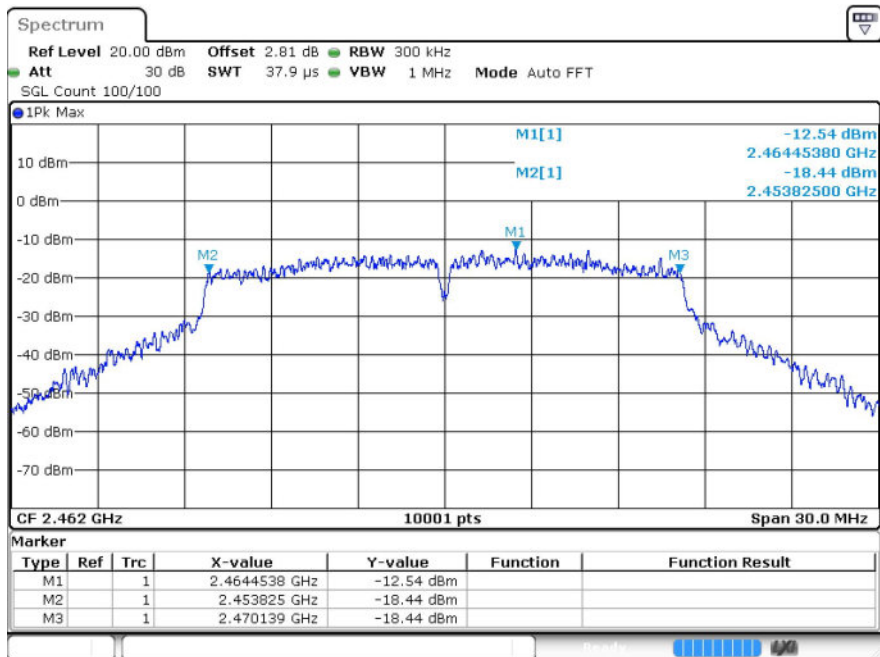
g 2412MHz Ant1

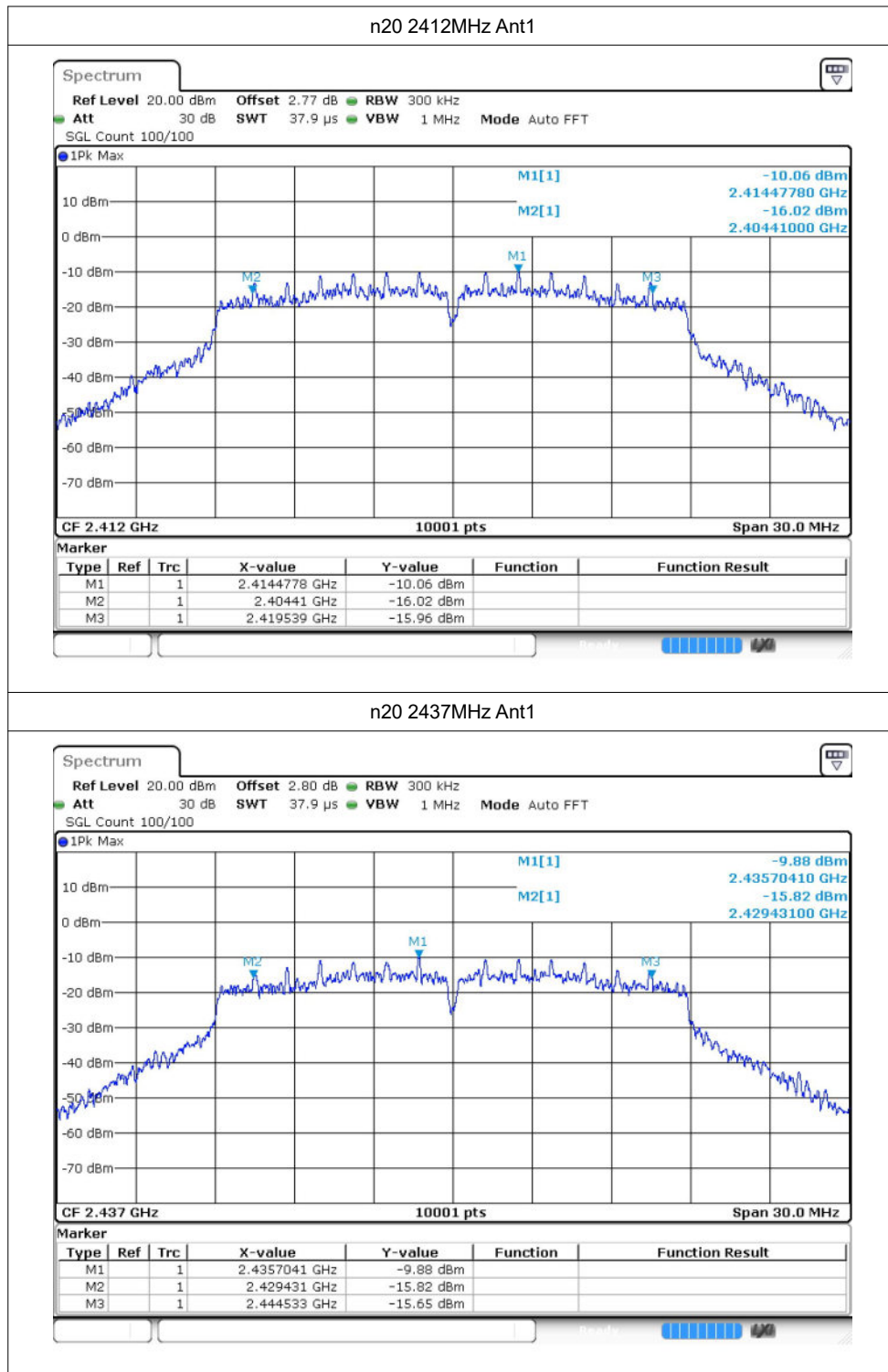


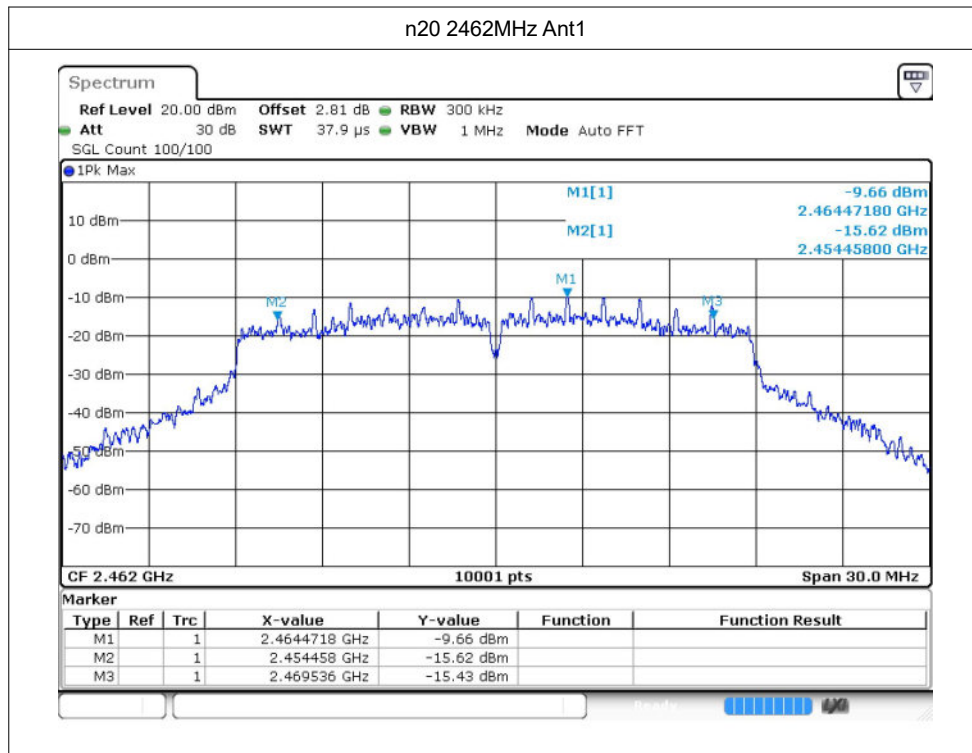
g 2437MHz Ant1



g 2462MHz Ant1





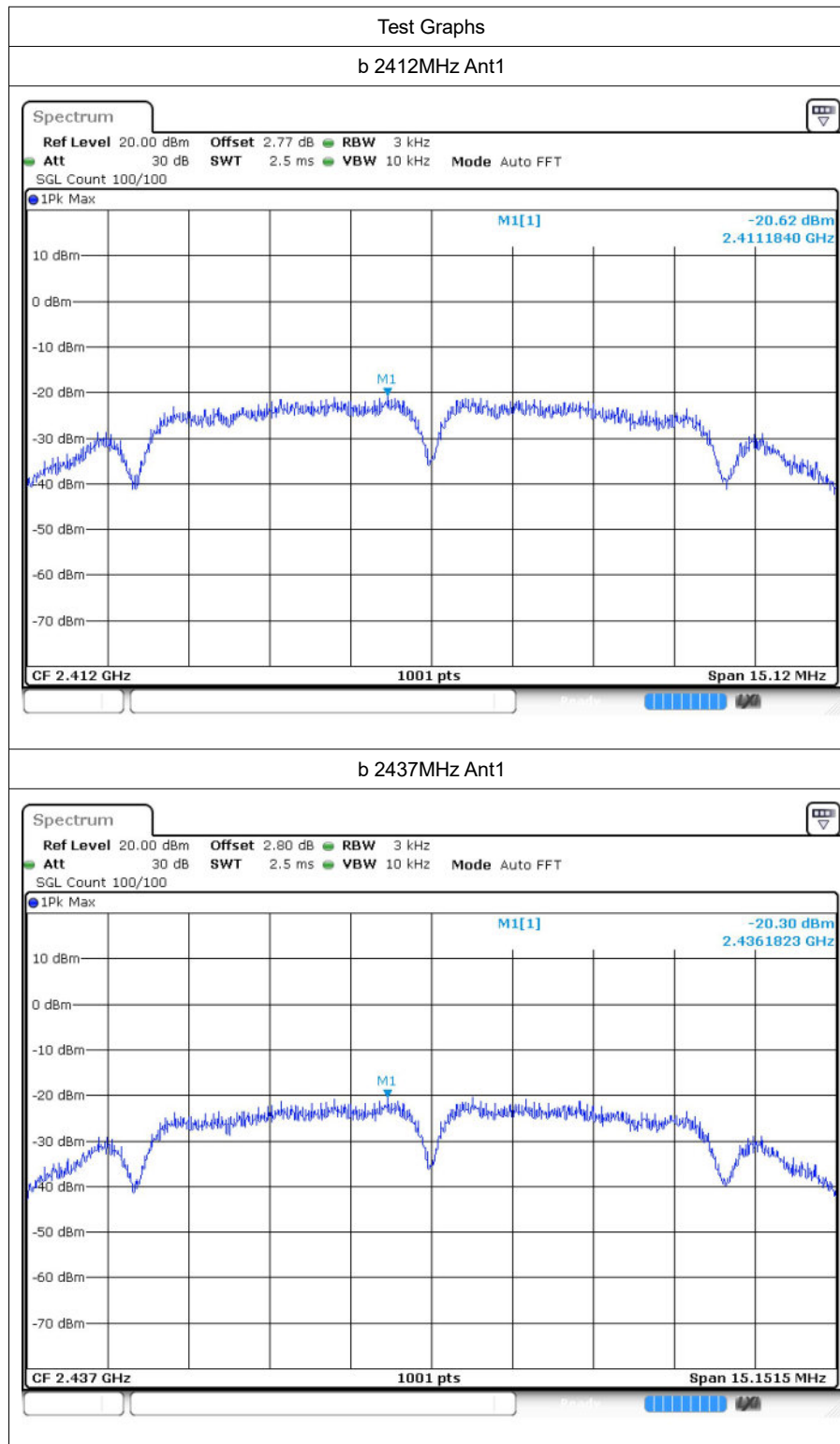


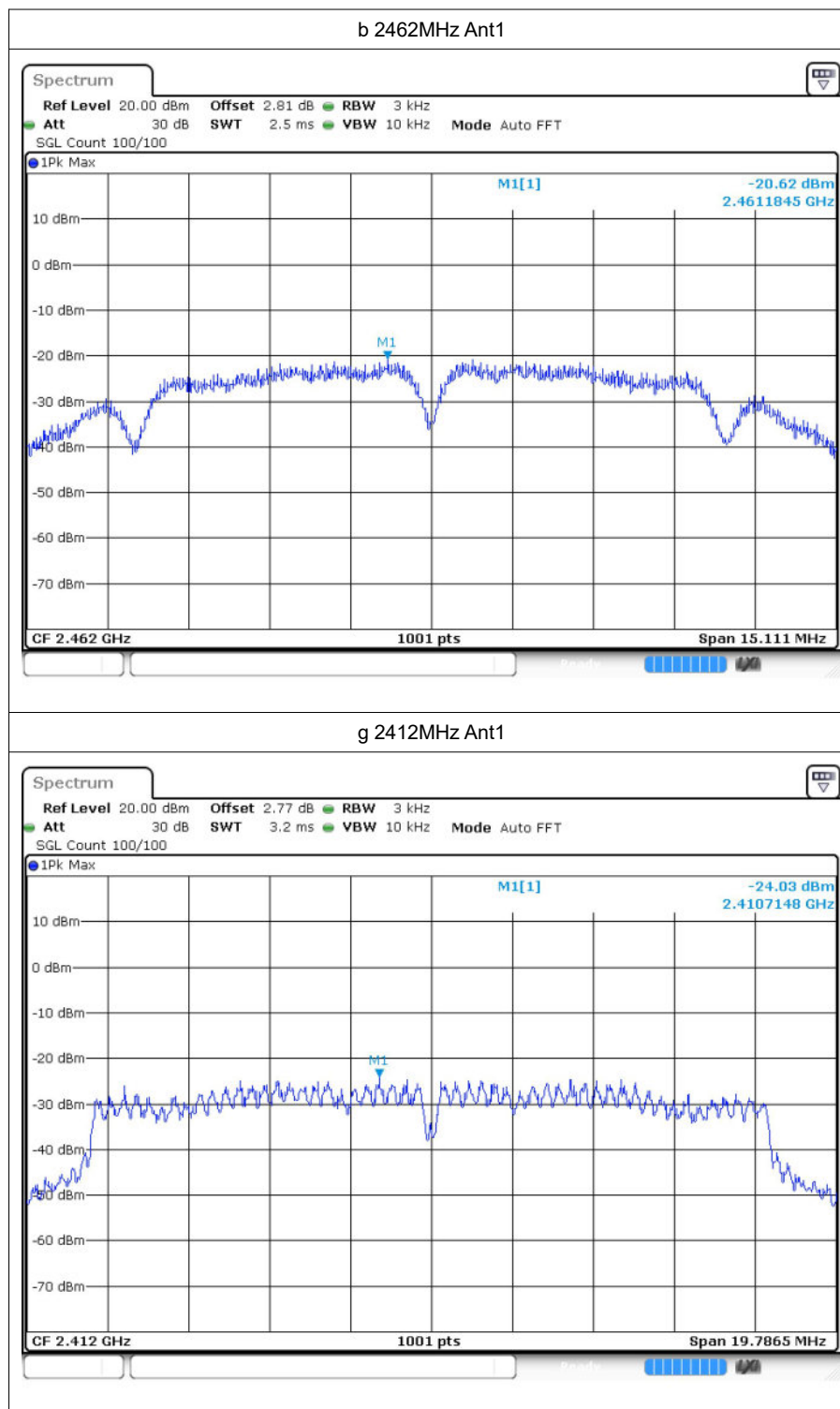
4 Maximum Power Spectral Density Level

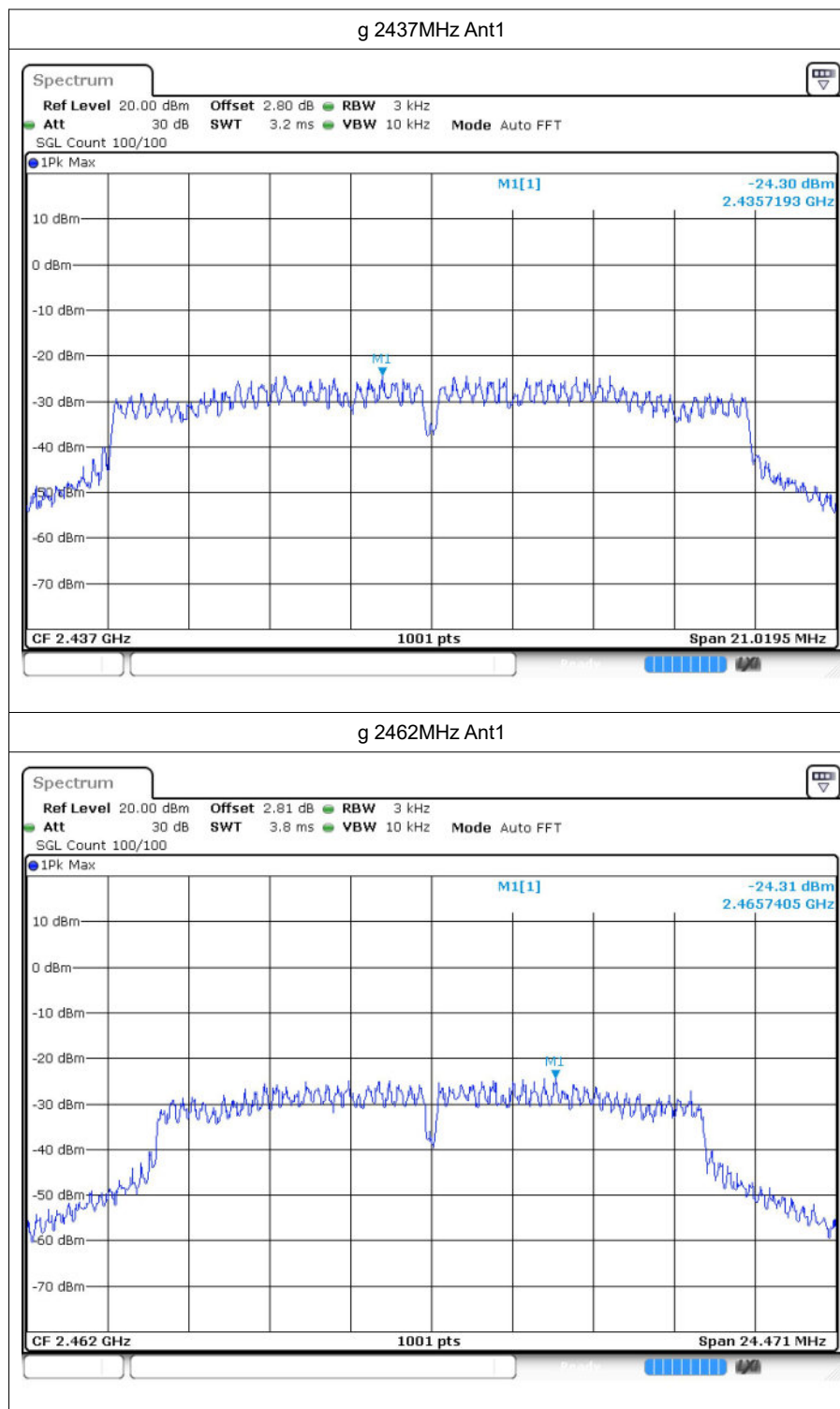
4.1 Test Result

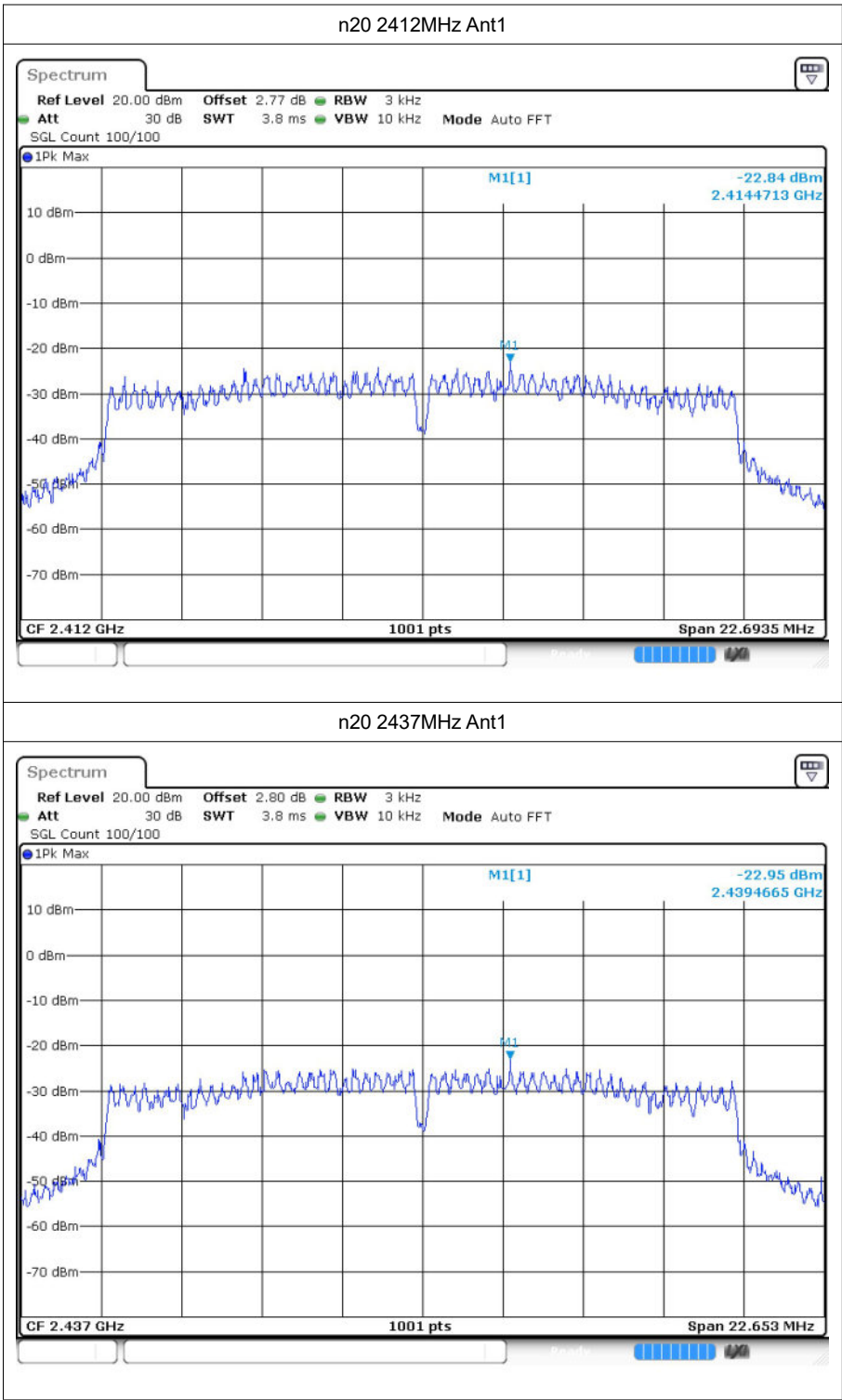
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
b	2412	Ant1	-20.62	≤8	Pass
b	2437	Ant1	-20.3	≤8	Pass
b	2462	Ant1	-20.62	≤8	Pass
g	2412	Ant1	-24.03	≤8	Pass
g	2437	Ant1	-24.3	≤8	Pass
g	2462	Ant1	-24.31	≤8	Pass
n20	2412	Ant1	-22.84	≤8	Pass
n20	2437	Ant1	-22.95	≤8	Pass
n20	2462	Ant1	-24.34	≤8	Pass

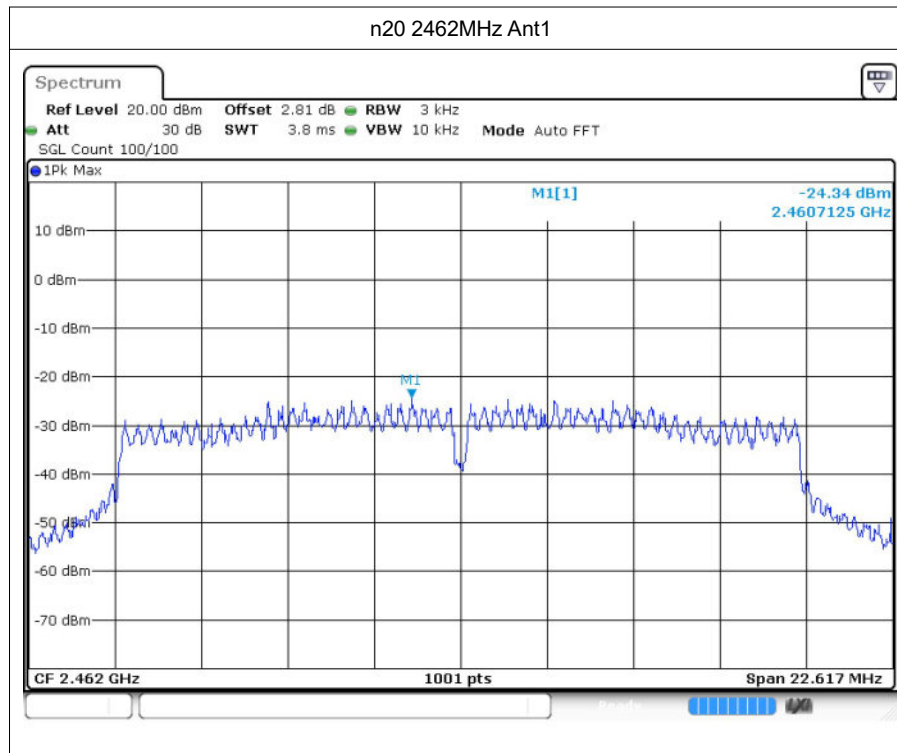
4.2 Test Graphs











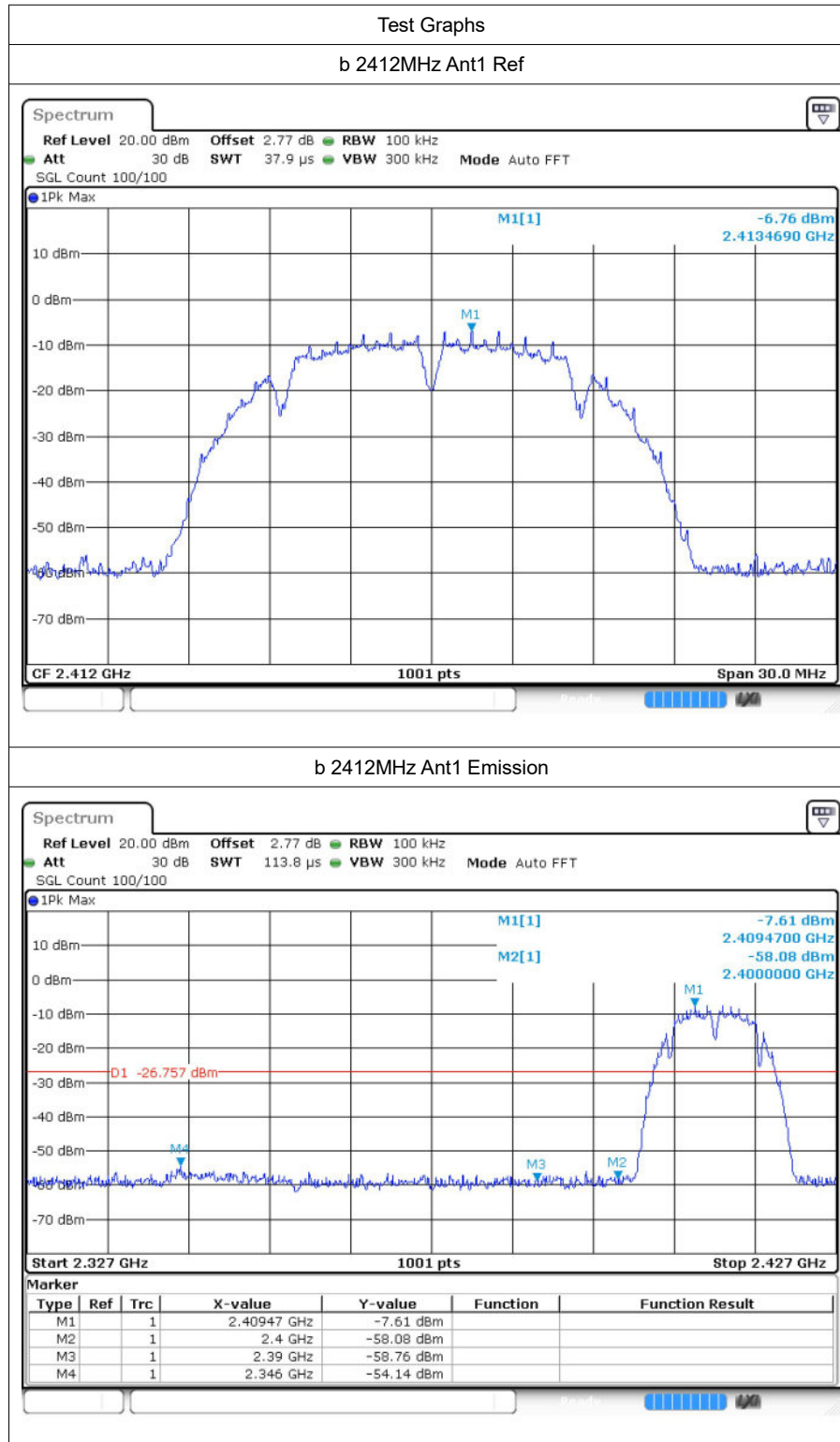


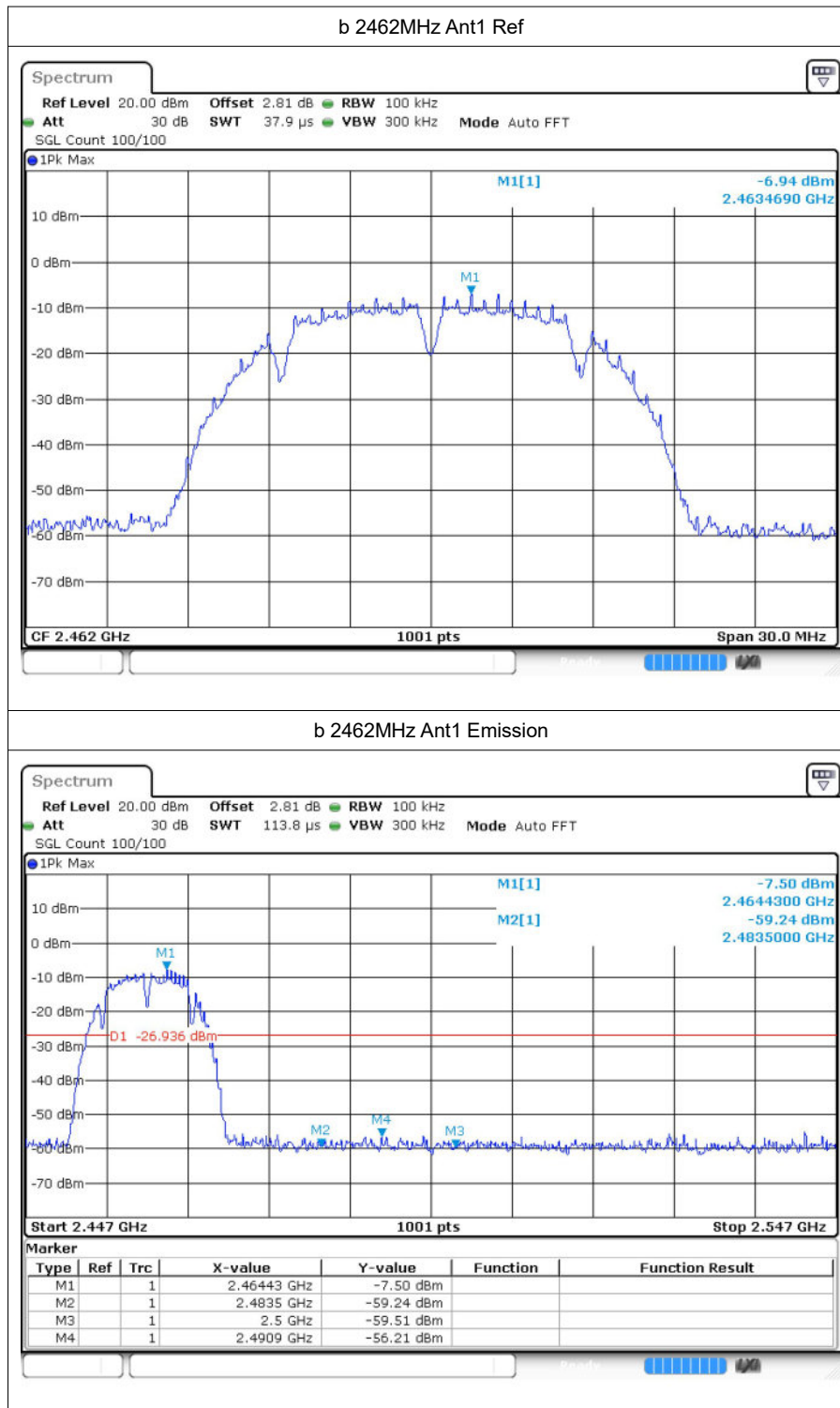
5 Band Edge

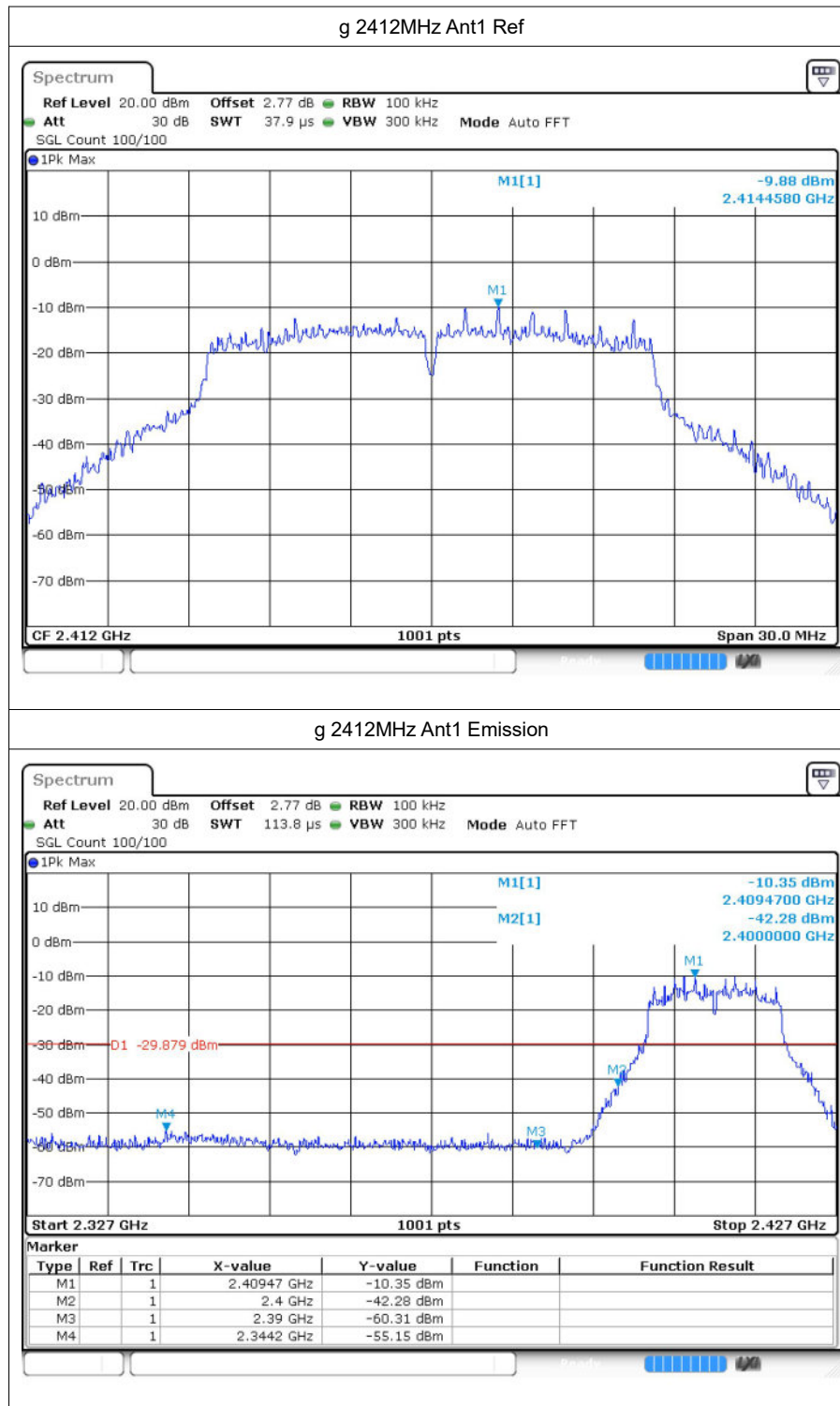
5.1 Test Result

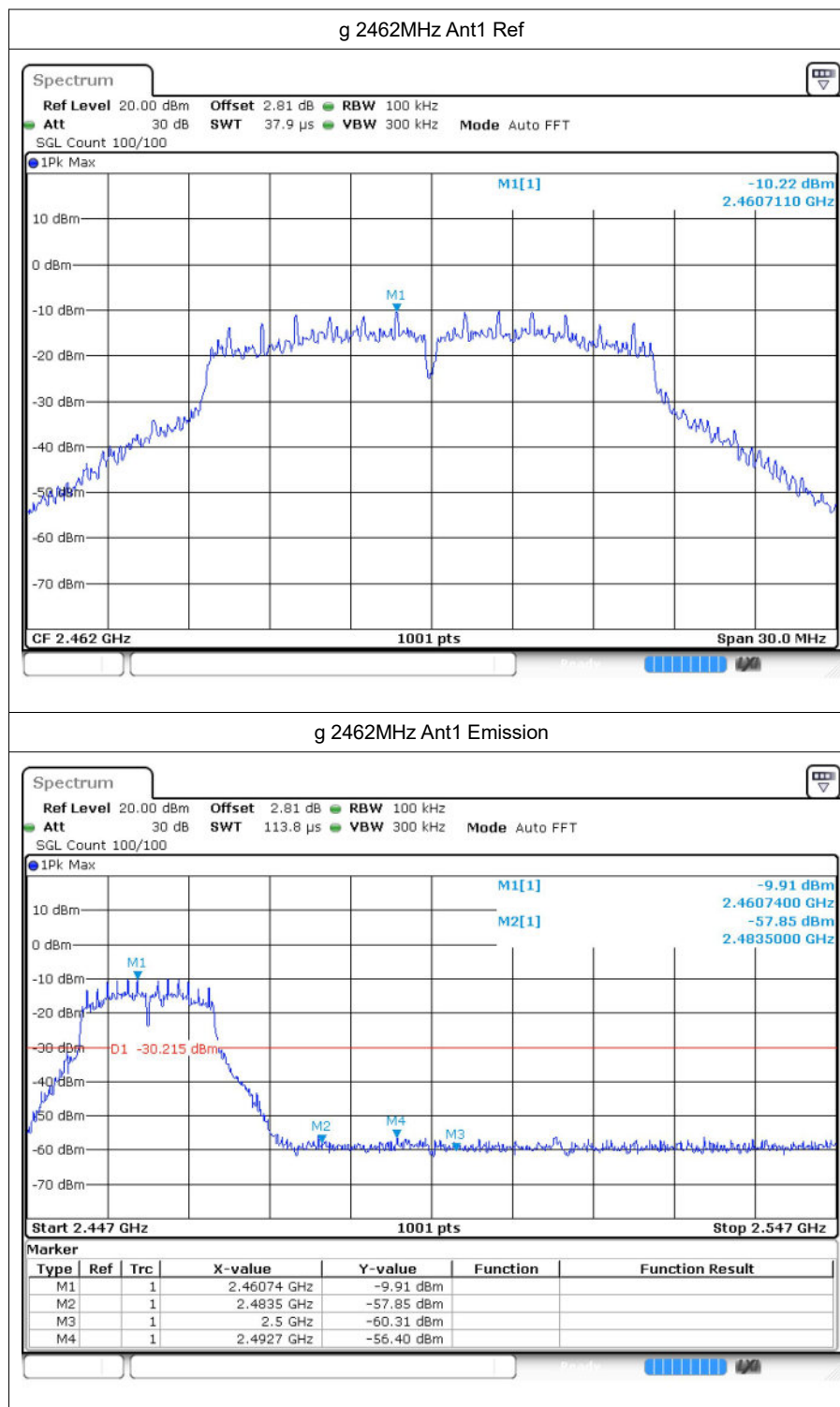
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-47.38	-20	Pass
b	2462	Ant1	-49.26	-20	Pass
g	2412	Ant1	-45.27	-20	Pass
g	2462	Ant1	-46.18	-20	Pass
n20	2412	Ant1	-45.28	-20	Pass
n20	2462	Ant1	-46.05	-20	Pass

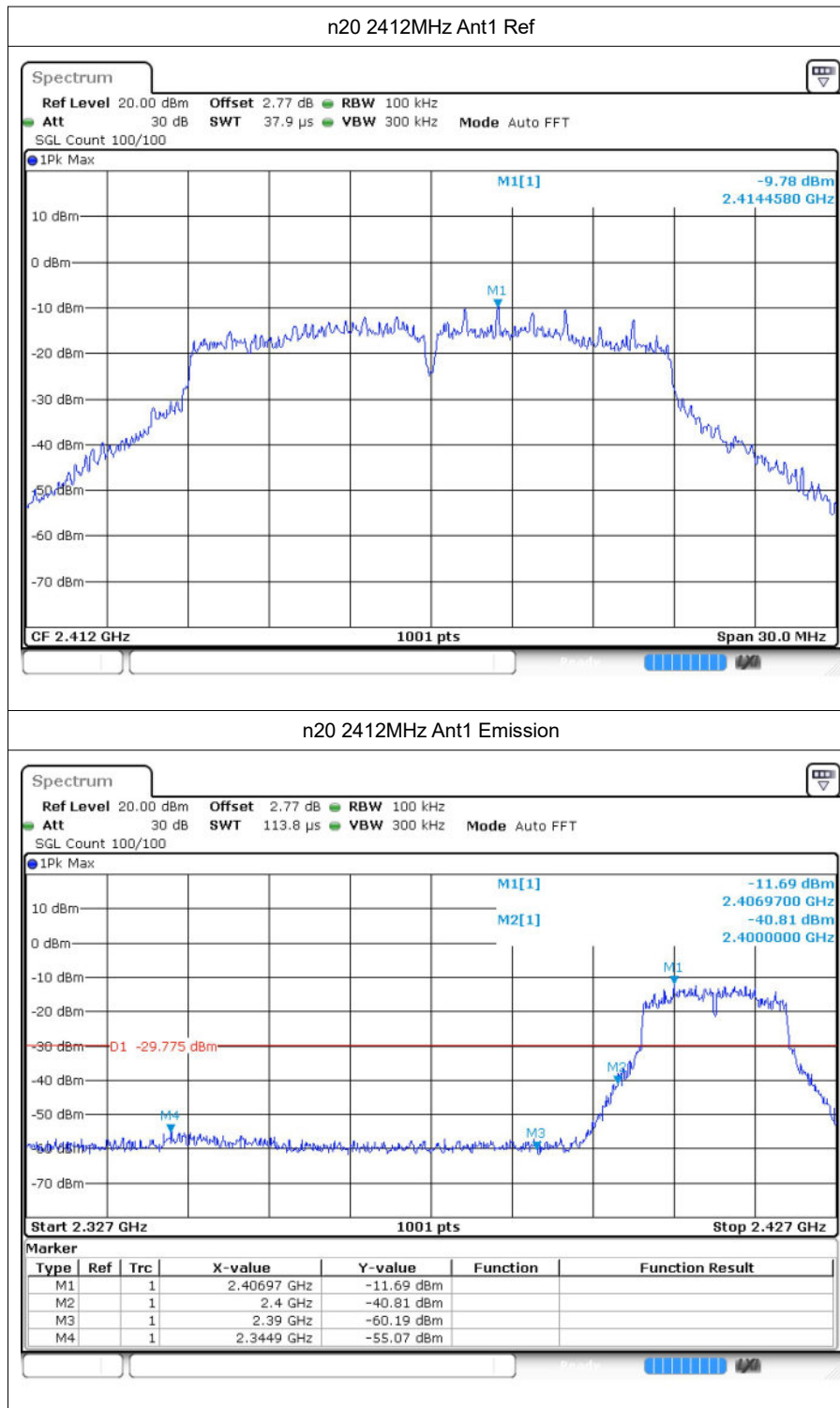
5.2 Test Graphs

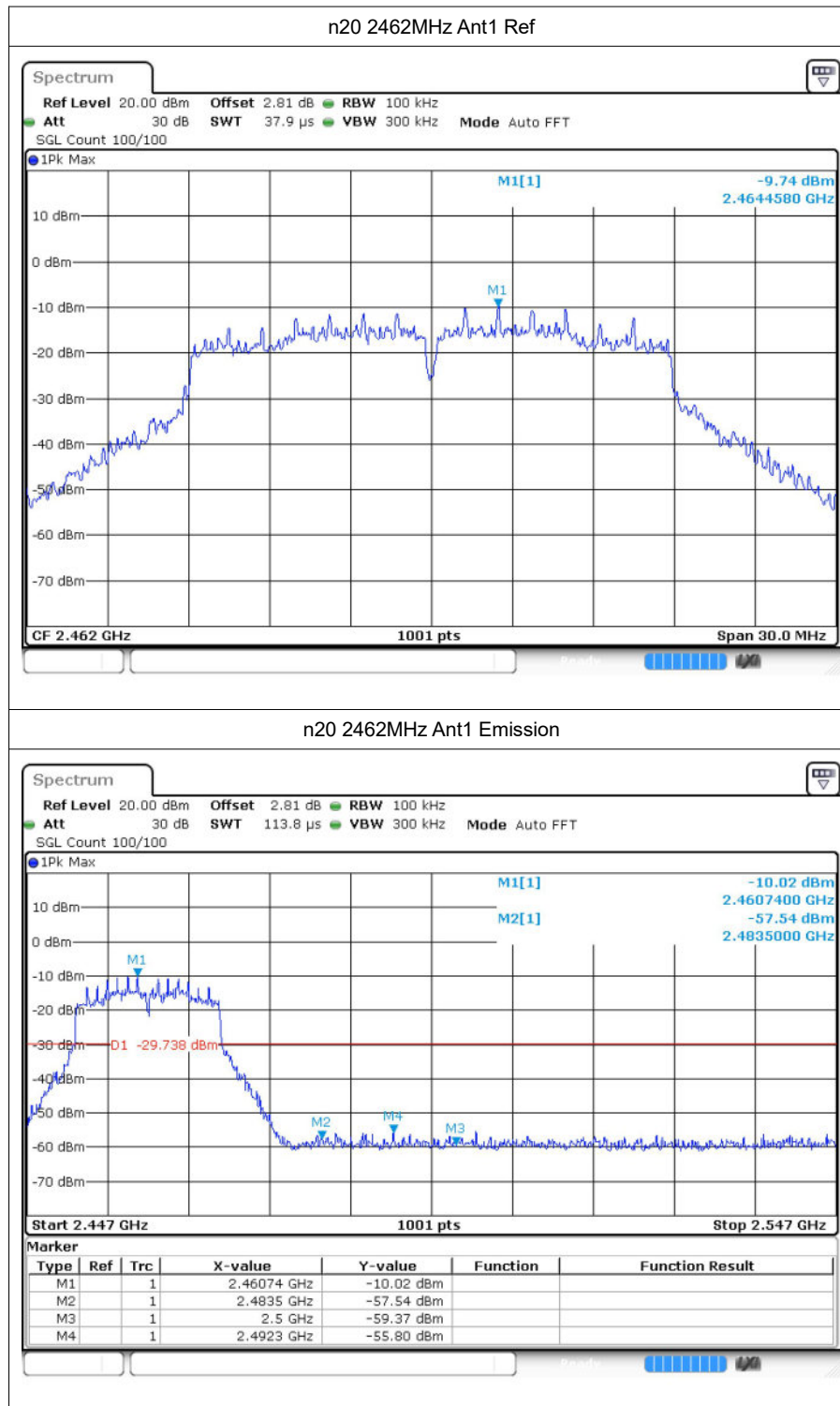












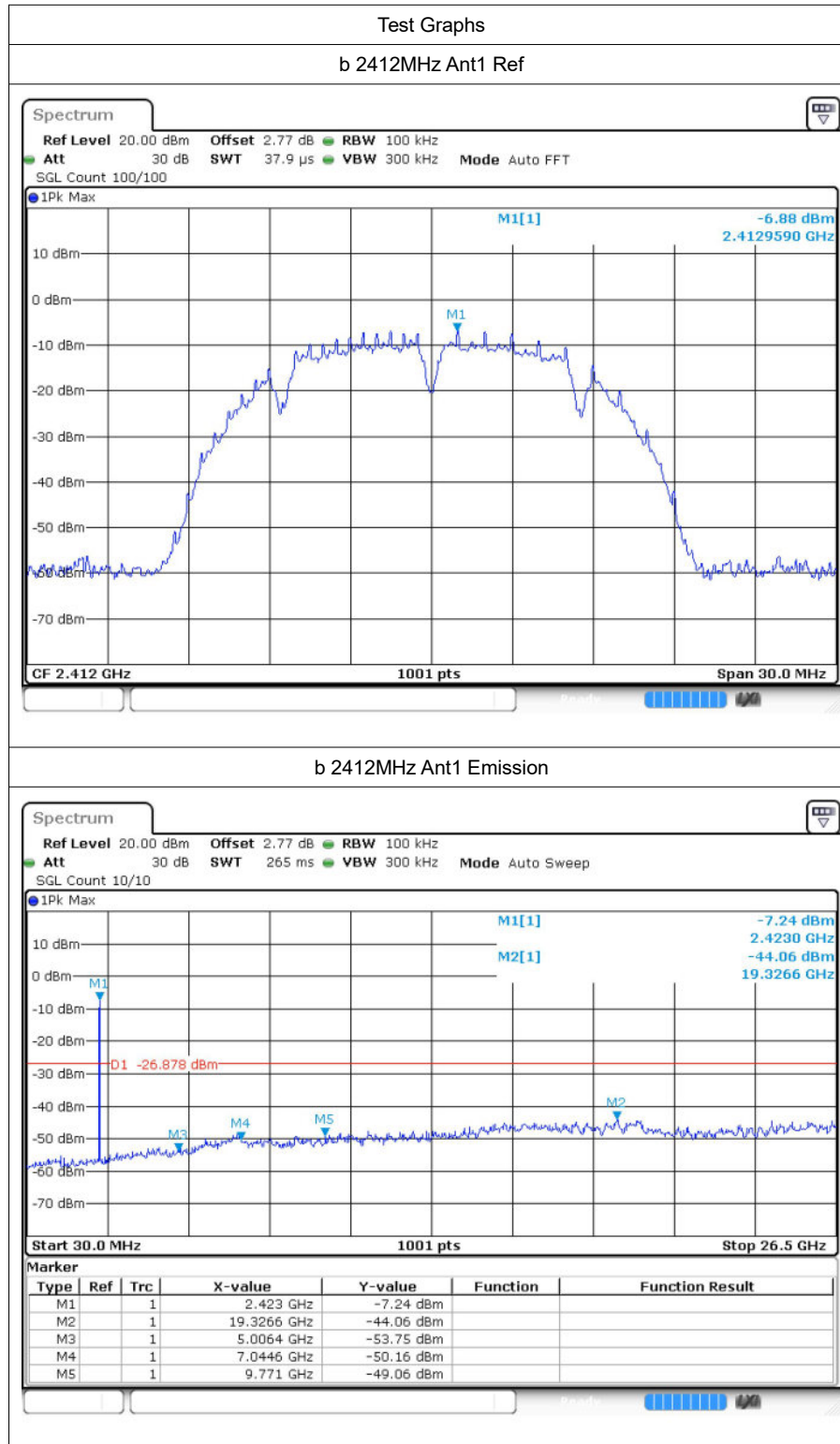


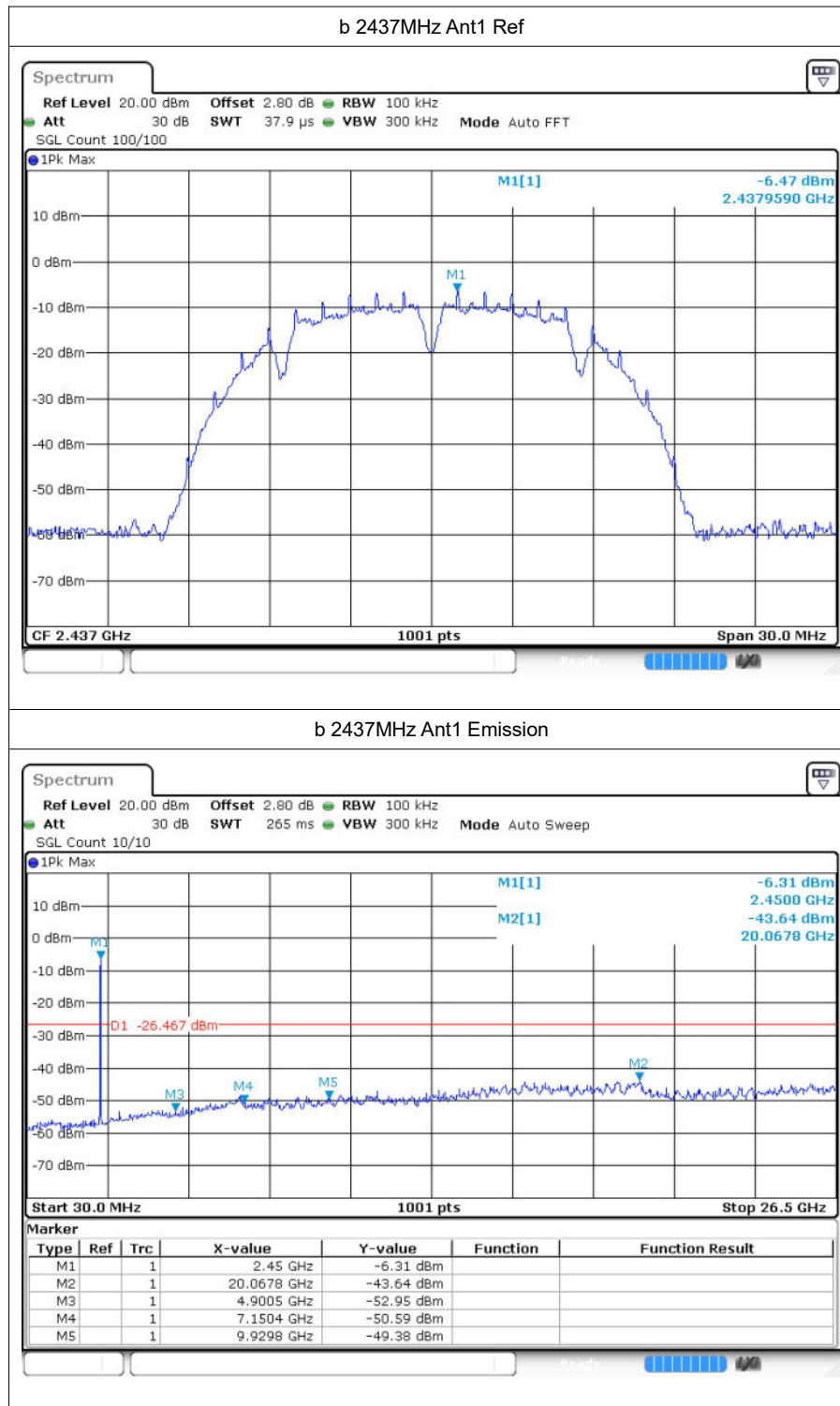
6 Conducted RF Spurious Emission

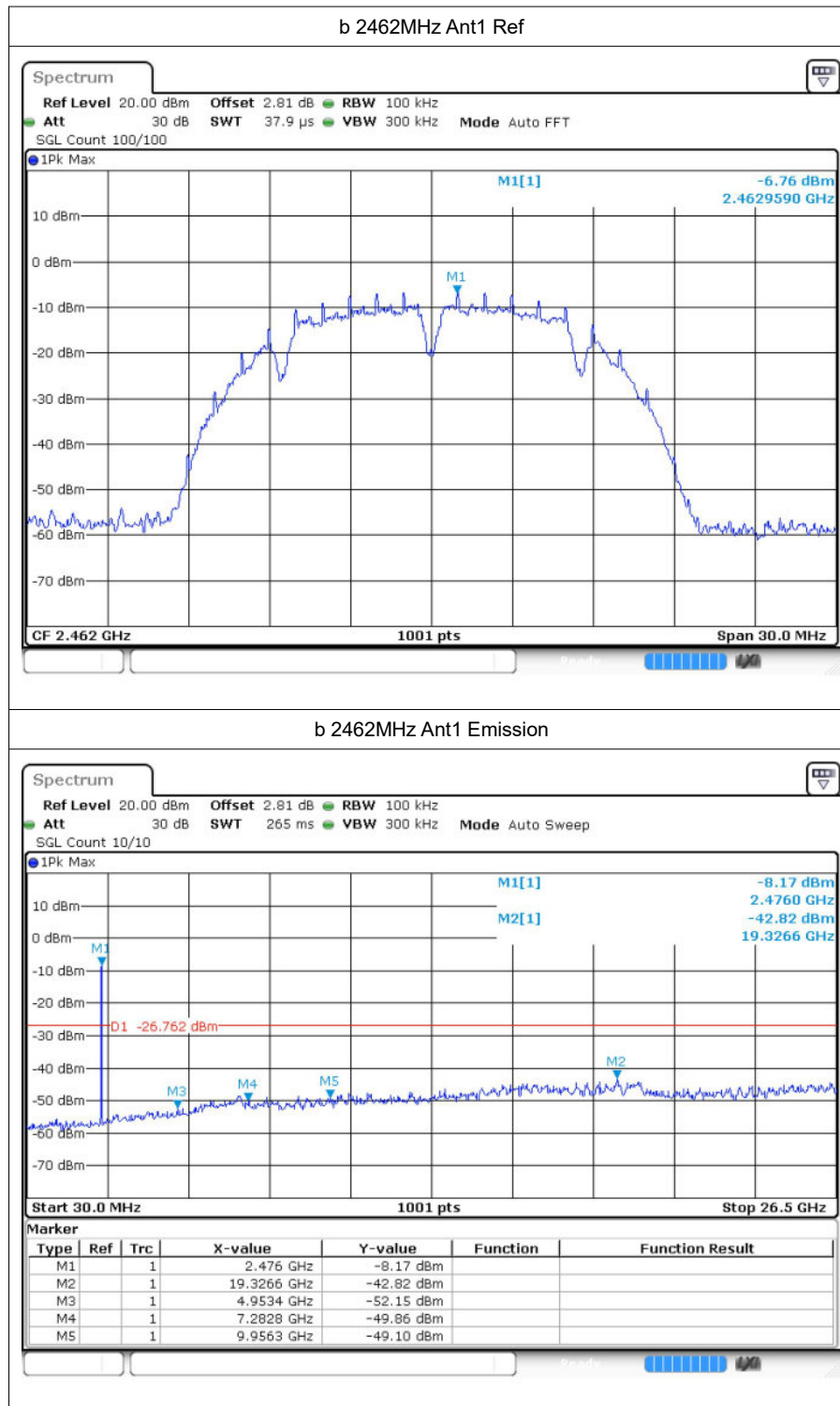
6.1 Test Result

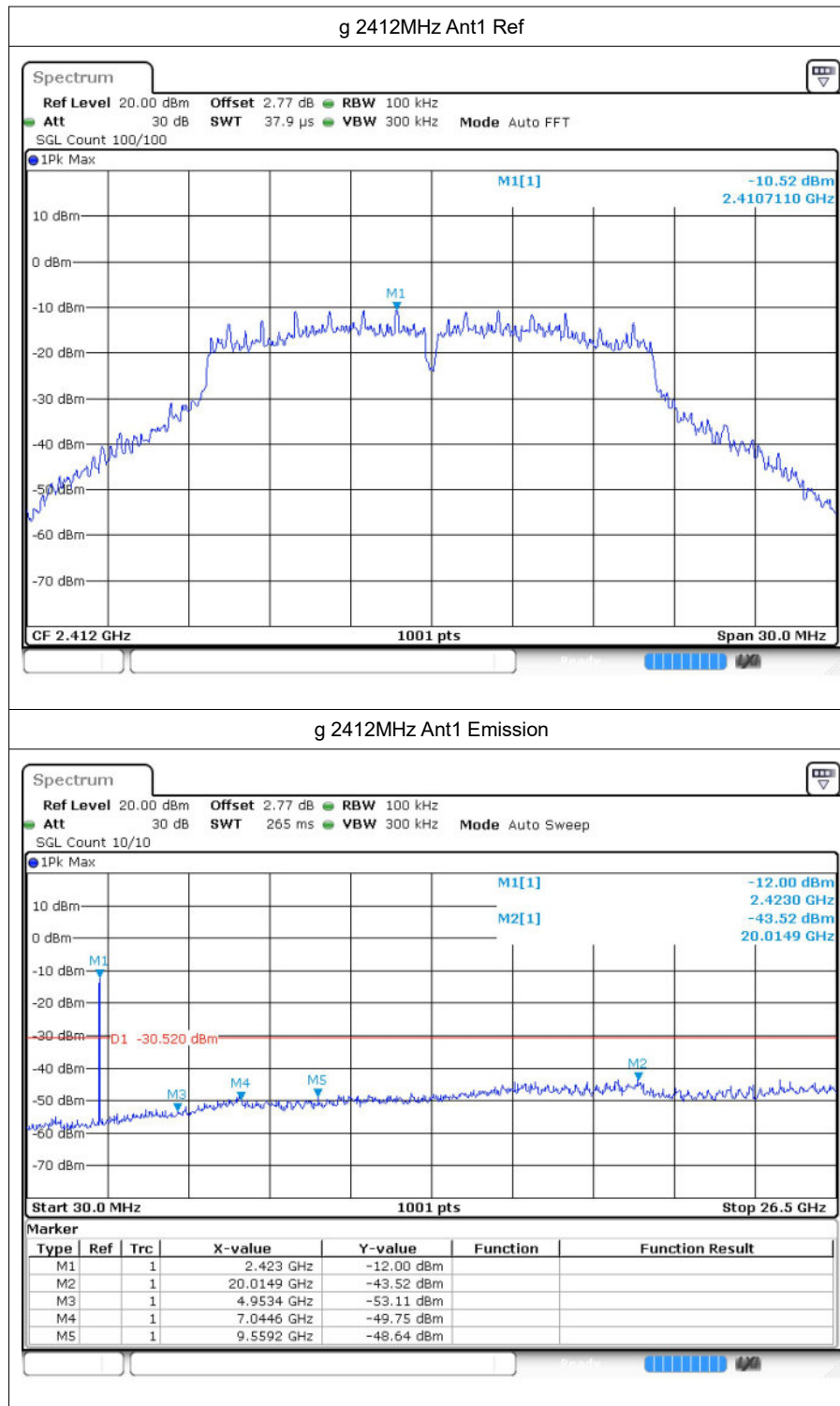
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-37.17	-20	Pass
b	2437	Ant1	-37.17	-20	Pass
b	2462	Ant1	-36.06	-20	Pass
g	2412	Ant1	-32.99	-20	Pass
g	2437	Ant1	-34.19	-20	Pass
g	2462	Ant1	-32.27	-20	Pass
n20	2412	Ant1	-33.9	-20	Pass
n20	2437	Ant1	-33.31	-20	Pass
n20	2462	Ant1	-33.66	-20	Pass

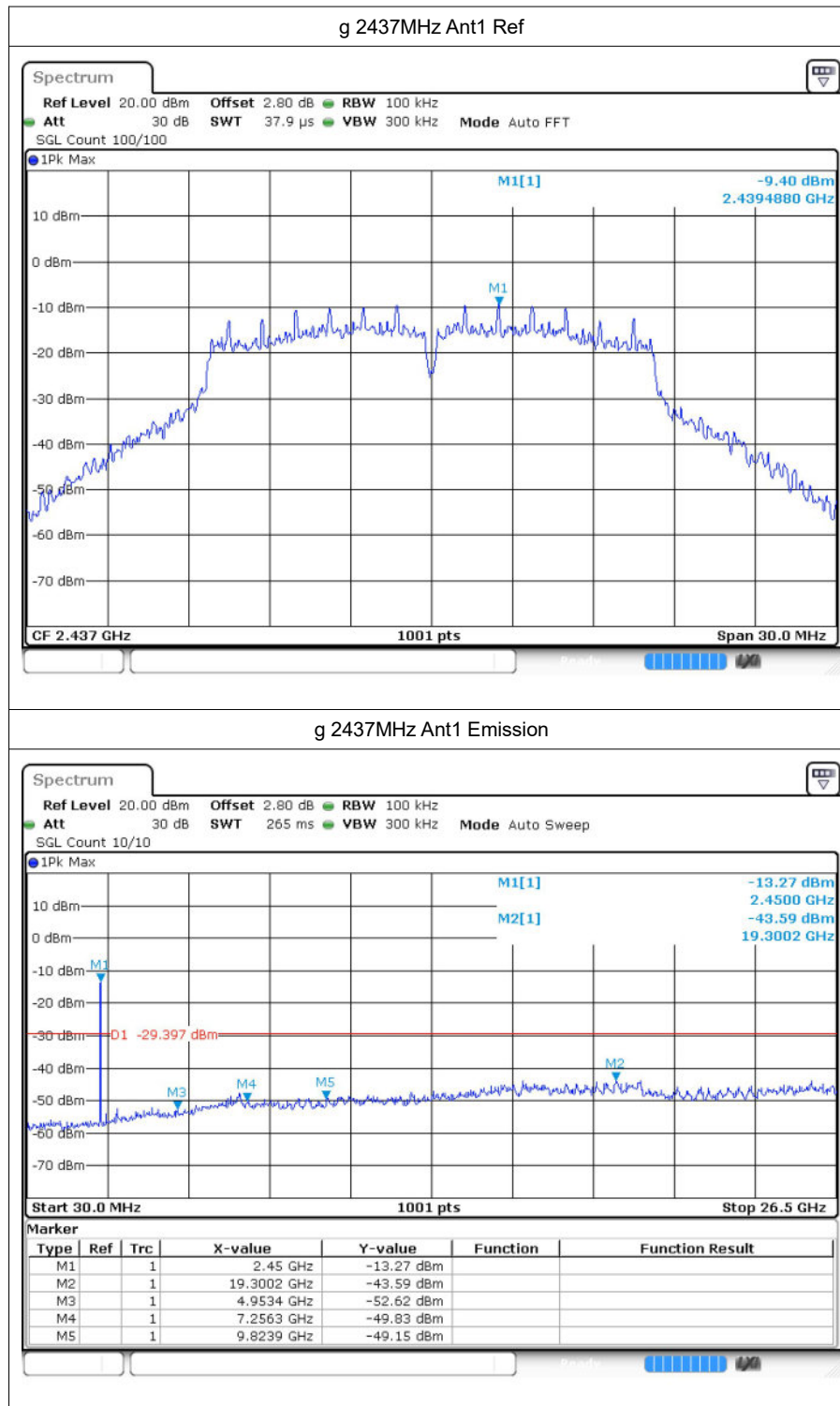
6.2 Test Graphs

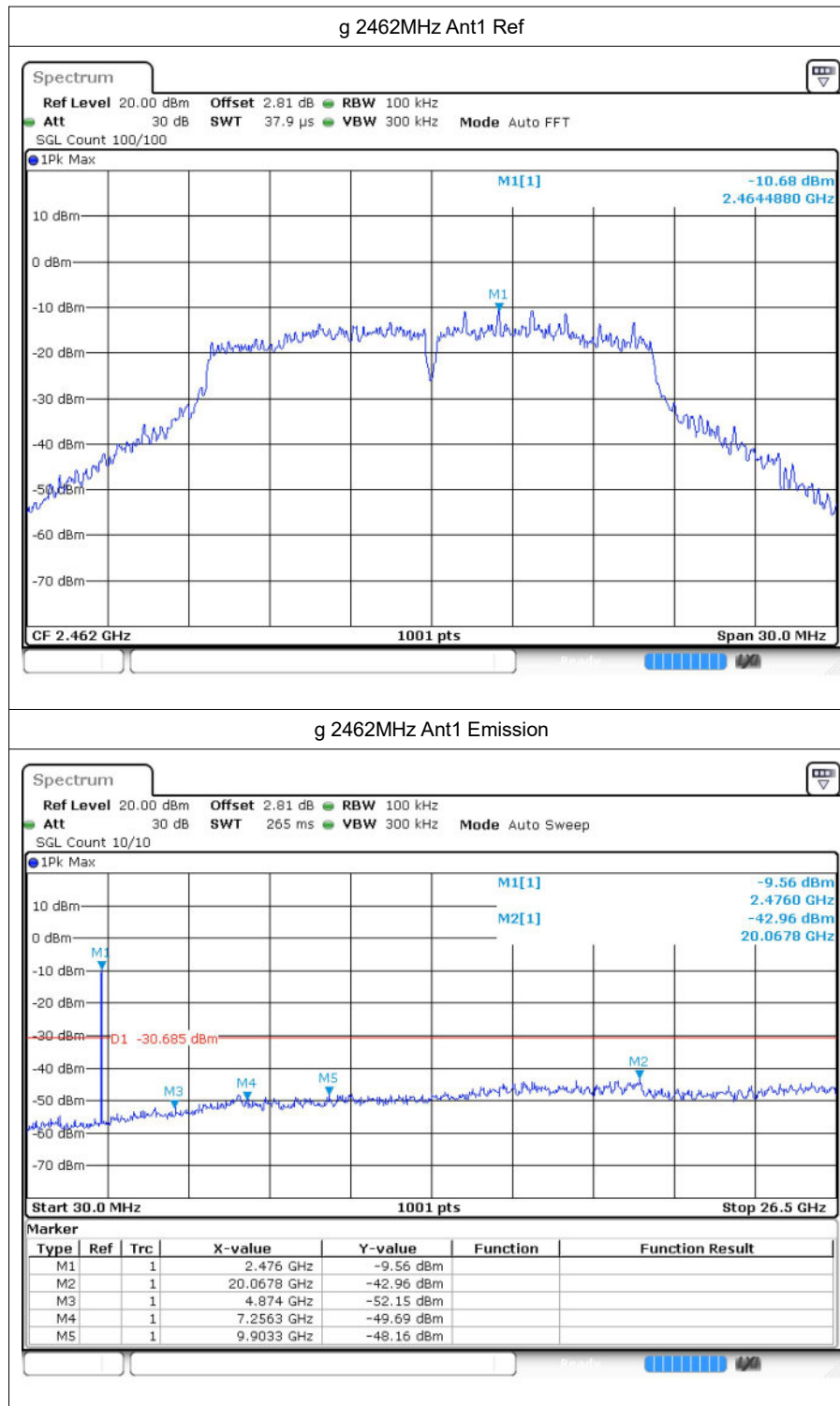


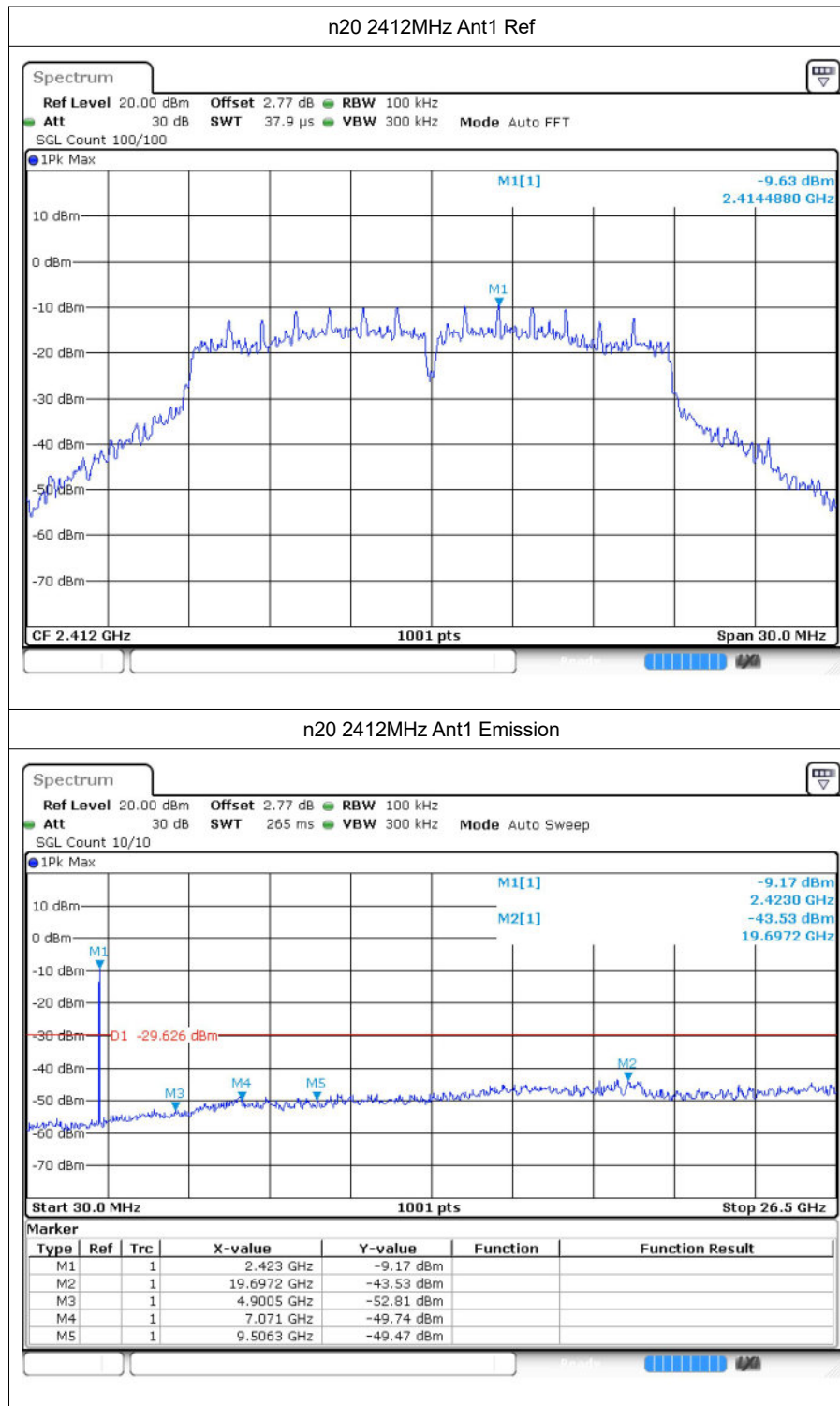


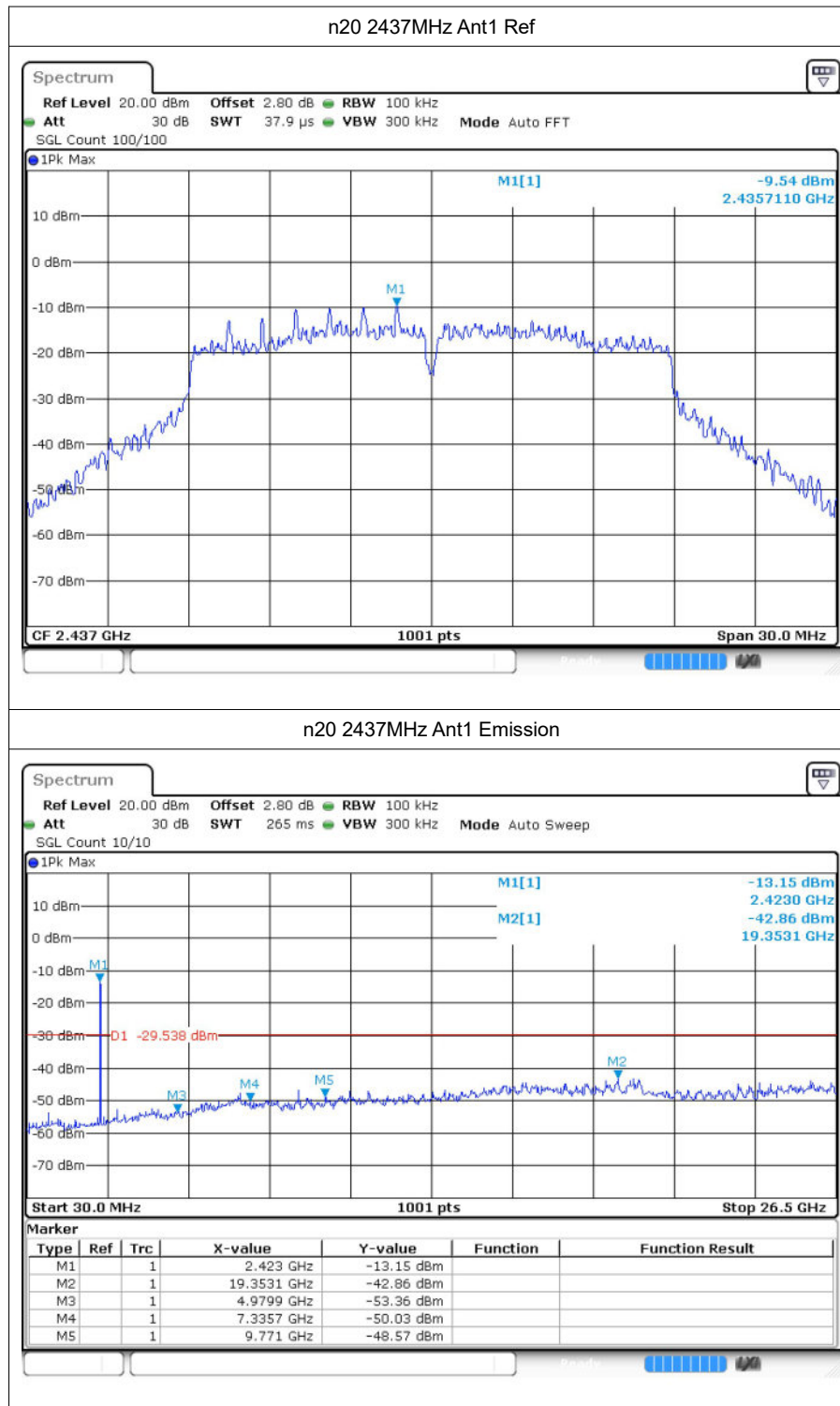


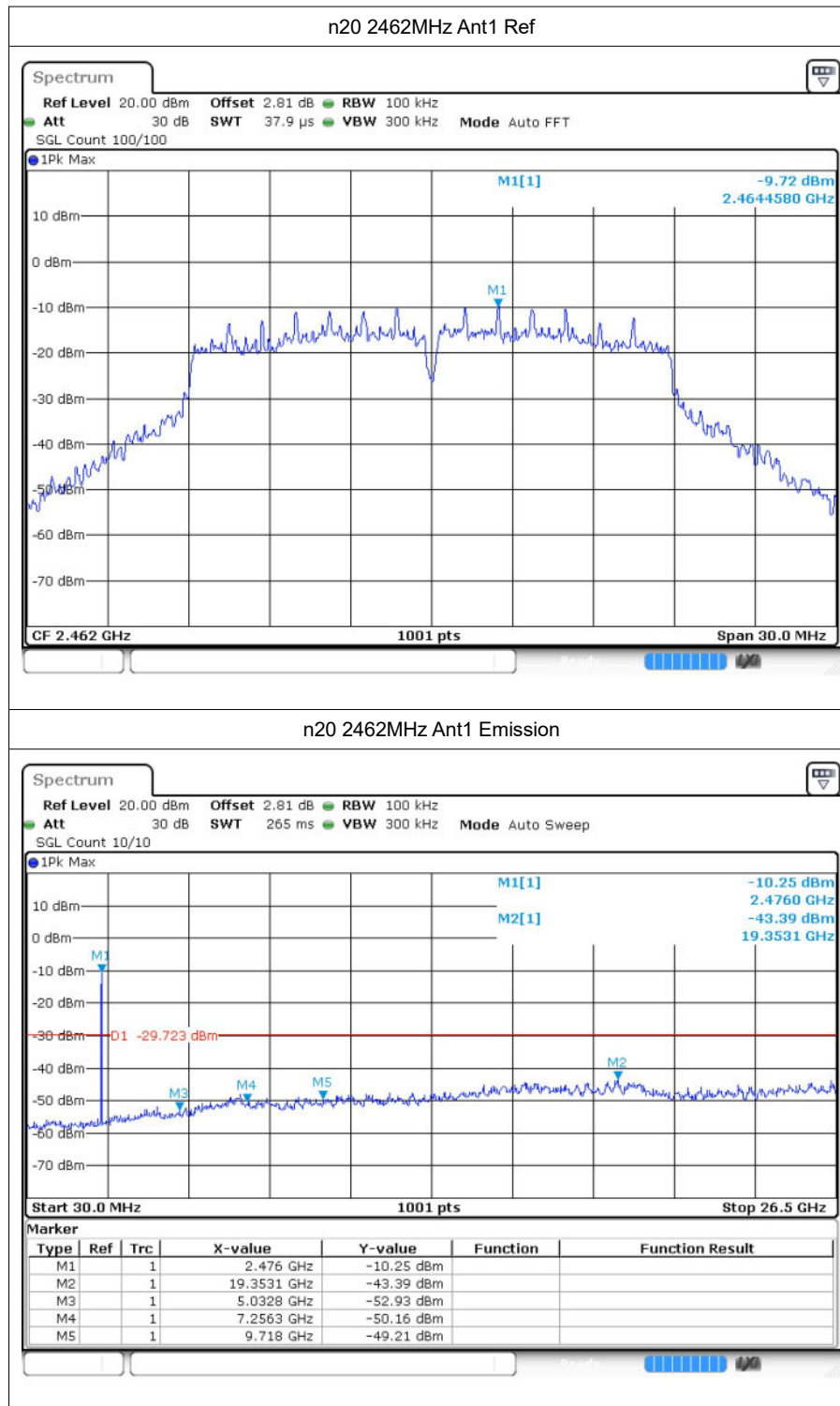














7 Restrict Band

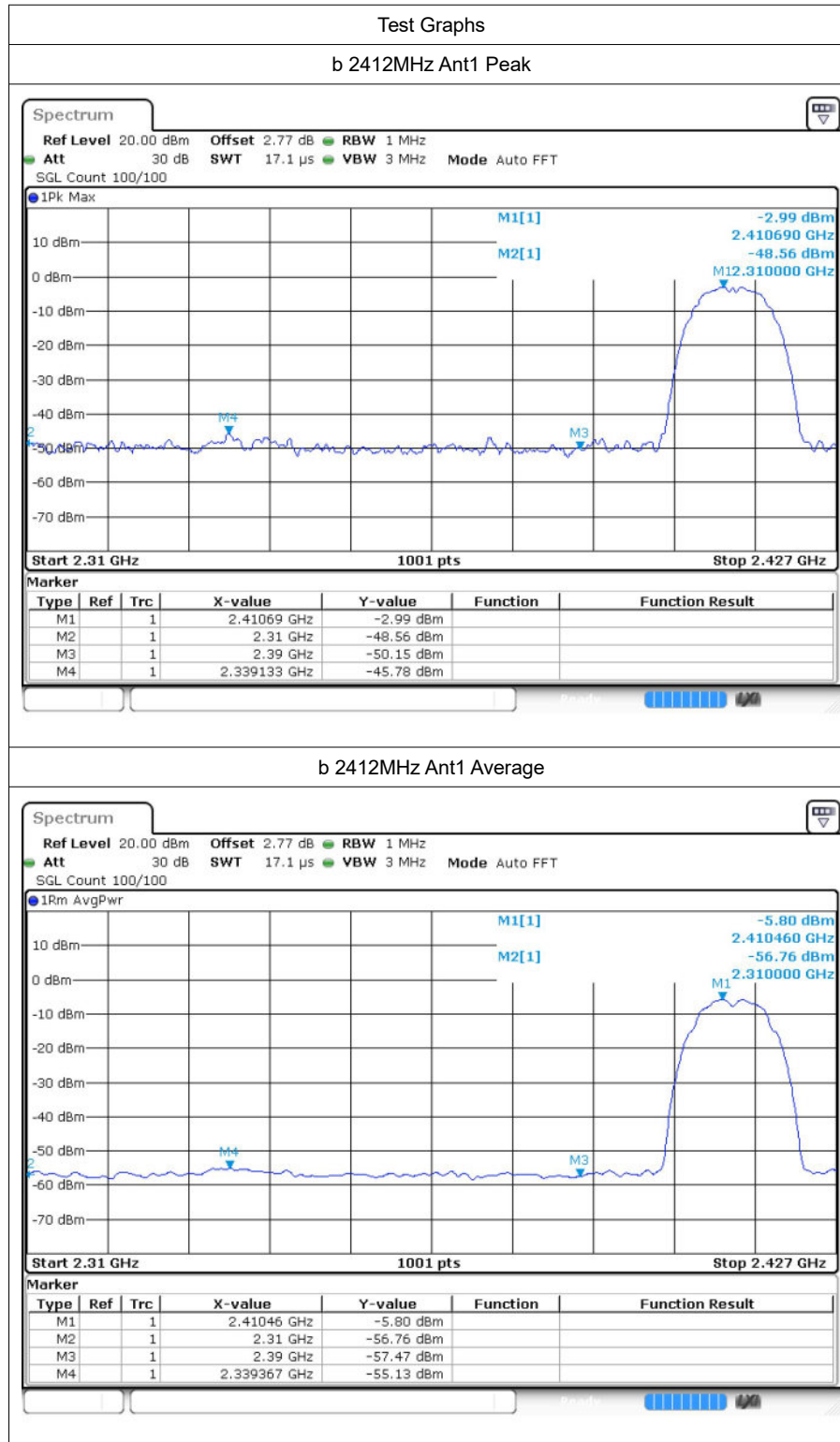
7.1 Test Result

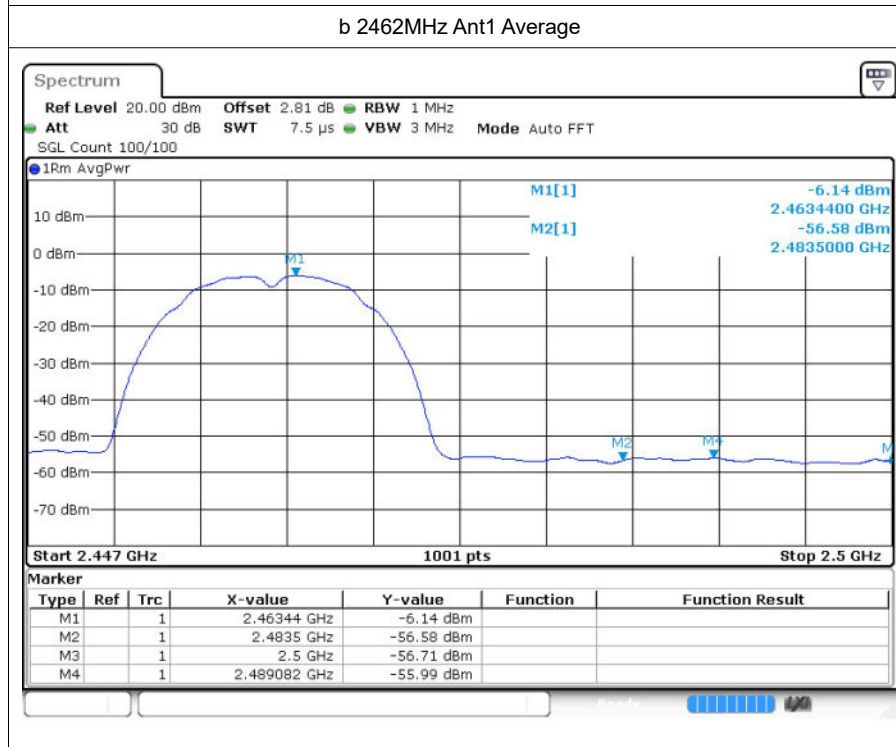
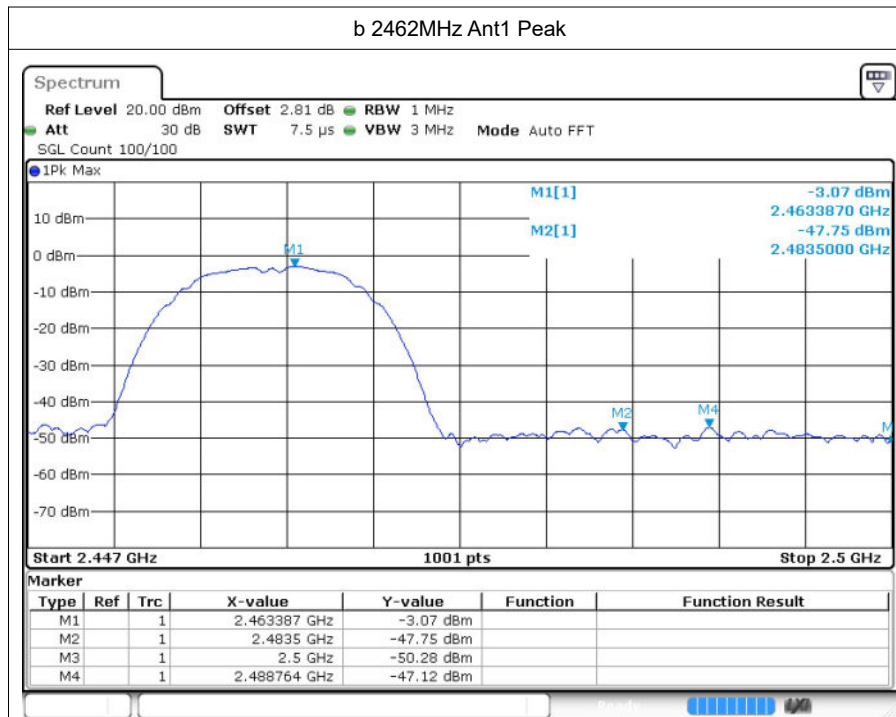
Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	Duty Factor	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
b	2412	Ant1	2310	-48.56	2.67	-	49.34	Peak	74	Pass
b	2412	Ant1	2310	-56.76	2.67	0	41.14	Average	54	Pass
b	2412	Ant1	2339.133	-45.78	2.67	-	52.12	Peak	74	Pass
b	2412	Ant1	2339.367	-55.12	2.67	0	42.78	Average	54	Pass
b	2412	Ant1	2390	-50.15	2.67	-	47.75	Peak	74	Pass
b	2412	Ant1	2390	-57.47	2.67	0	40.43	Average	54	Pass
b	2462	Ant1	2483.5	-47.75	2.67	-	50.15	Peak	74	Pass
b	2462	Ant1	2483.5	-56.58	2.67	0	41.32	Average	54	Pass
b	2462	Ant1	2488.764	-47.11	2.67	-	50.79	Peak	74	Pass
b	2462	Ant1	2489.082	-55.98	2.67	0	41.92	Average	54	Pass
b	2462	Ant1	2500	-50.28	2.67	-	47.62	Peak	74	Pass
b	2462	Ant1	2500	-56.71	2.67	0	41.19	Average	54	Pass
g	2412	Ant1	2310	-49.45	2.67	-	48.45	Peak	74	Pass
g	2412	Ant1	2310	-56.55	2.67	0.65	42.00	Average	54	Pass
g	2412	Ant1	2342.877	-46.73	2.67	-	51.17	Peak	74	Pass
g	2412	Ant1	2336.559	-54.89	2.67	0.65	43.66	Average	54	Pass
g	2412	Ant1	2390	-50.32	2.67	-	47.58	Peak	74	Pass
g	2412	Ant1	2390	-56.47	2.67	0.65	42.08	Average	54	Pass
g	2462	Ant1	2483.5	-48.36	2.67	-	49.54	Peak	74	Pass
g	2462	Ant1	2483.5	-56.8	2.67	0.65	41.75	Average	54	Pass
g	2462	Ant1	2488.764	-47.65	2.67	-	50.25	Peak	74	Pass
g	2462	Ant1	2486.22	-55.38	2.67	0.65	43.17	Average	54	Pass
g	2462	Ant1	2500	-48.66	2.67	-	49.24	Peak	74	Pass
g	2462	Ant1	2500	-56.22	2.67	0.65	42.33	Average	54	Pass
n20	2412	Ant1	2310	-50.06	2.67	-	47.84	Peak	74	Pass
n20	2412	Ant1	2310	-56.73	2.67	0.61	41.78	Average	54	Pass
n20	2412	Ant1	2343.93	-45.98	2.67	-	51.92	Peak	74	Pass
n20	2412	Ant1	2340.42	-54.63	2.67	0.61	43.88	Average	54	Pass
n20	2412	Ant1	2390	-49.64	2.67	-	48.26	Peak	74	Pass
n20	2412	Ant1	2390	-57.79	2.67	0.61	40.72	Average	54	Pass
n20	2462	Ant1	2483.5	-50.25	2.67	-	47.65	Peak	74	Pass
n20	2462	Ant1	2483.5	-56.01	2.67	0.61	42.50	Average	54	Pass
n20	2462	Ant1	2486.114	-48.07	2.67	-	49.83	Peak	74	Pass
n20	2462	Ant1	2486.326	-55.71	2.67	0.61	42.80	Average	54	Pass



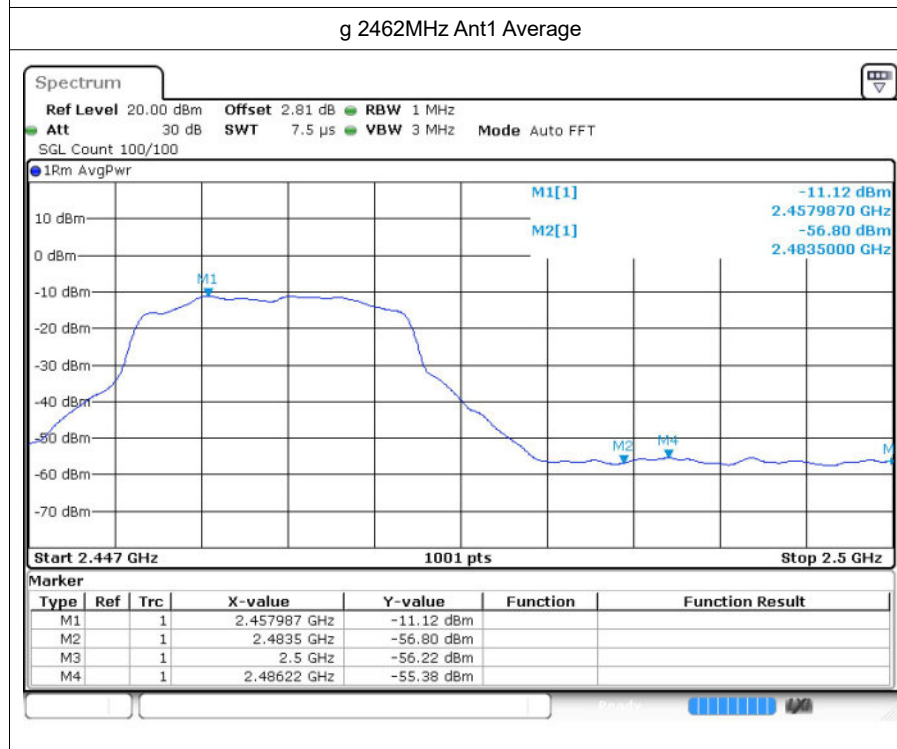
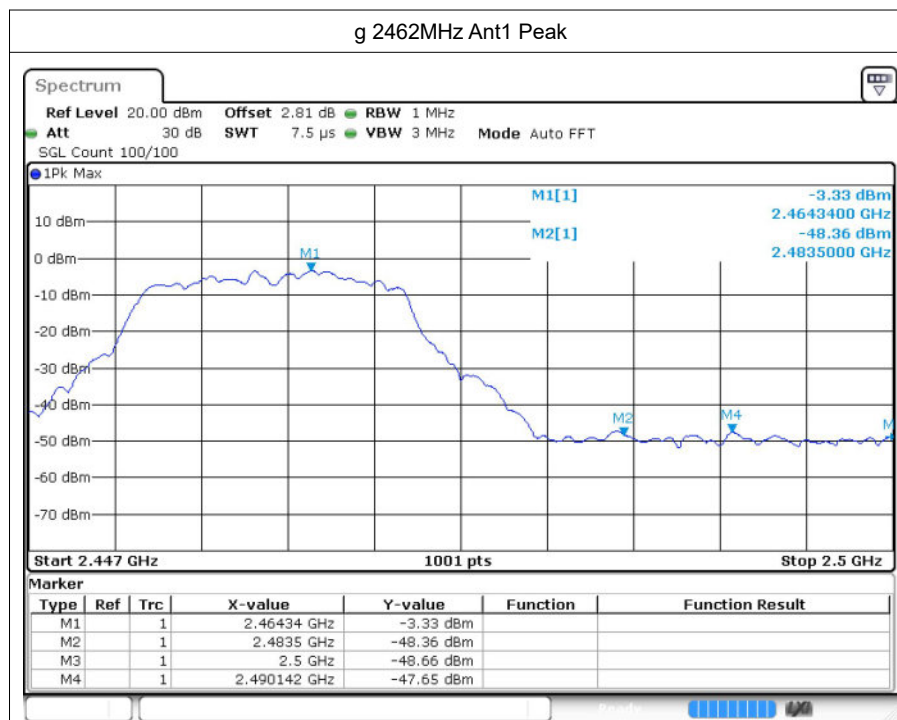
n20	2462	Ant1	2500	-49.85	2.67	-	48.05	Peak	74	Pass
n20	2462	Ant1	2500	-56.47	2.67	0.61	42.04	Average	54	Pass

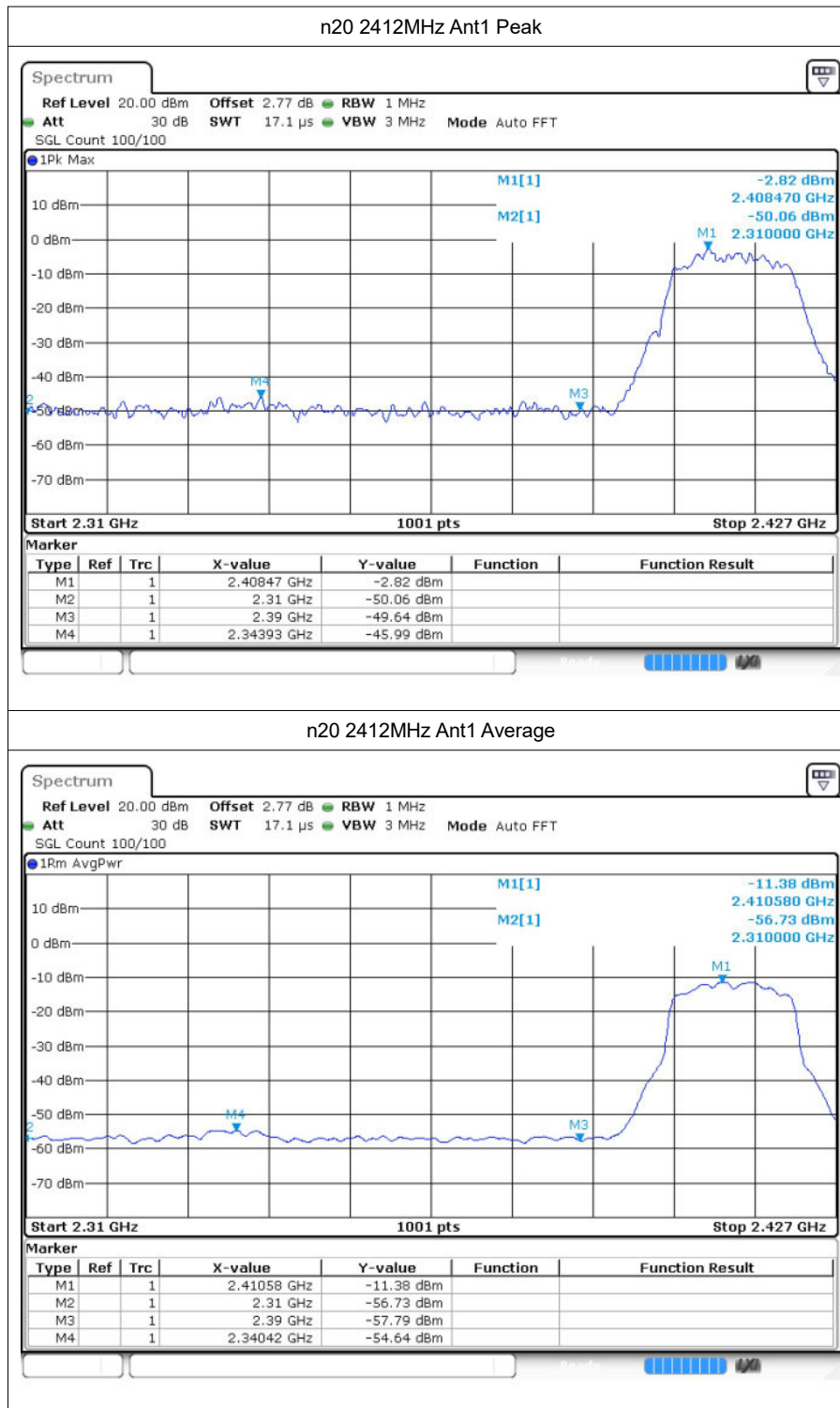
7.2 Test Graphs

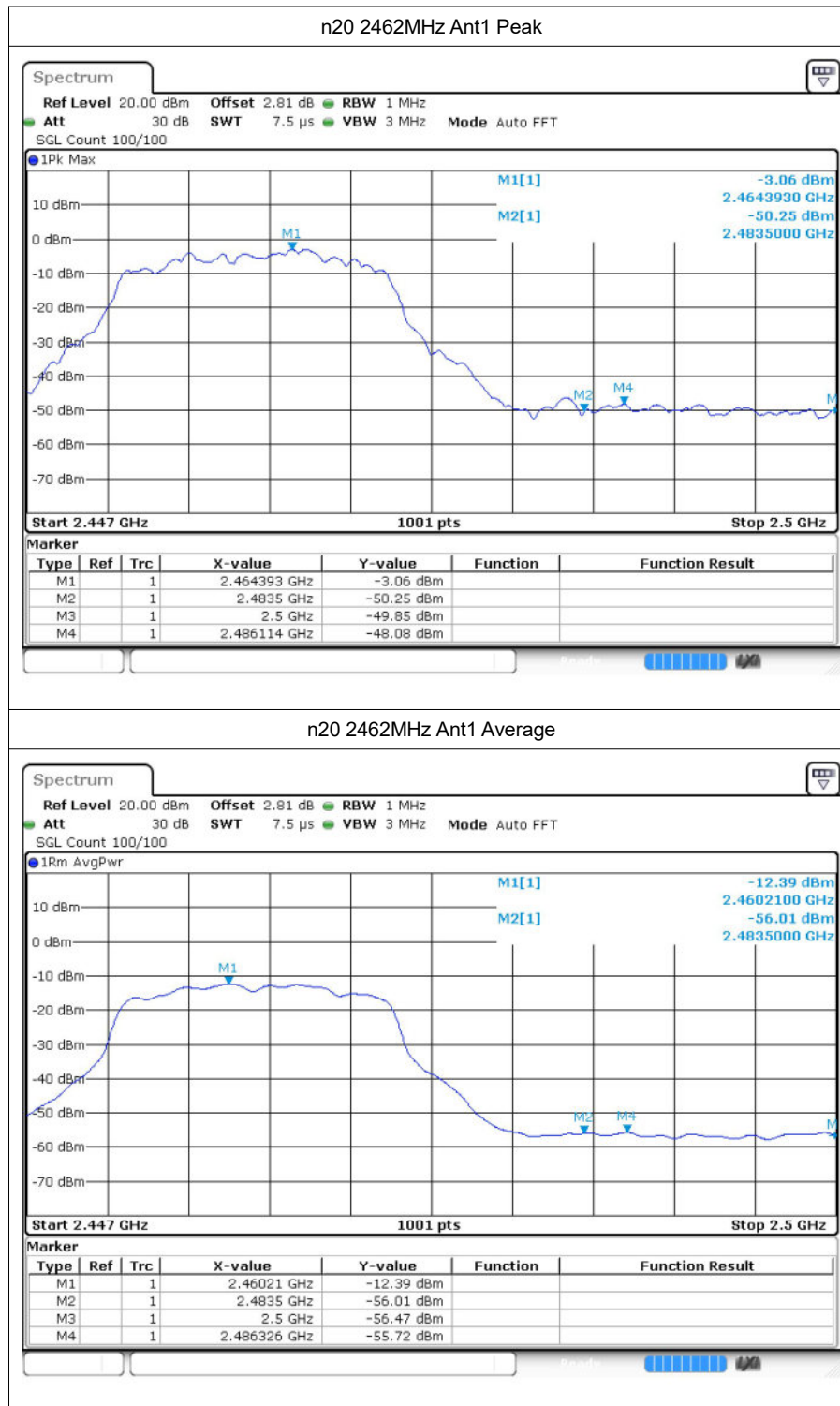












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