



Appendix C-2

RF Test Data for 2.4GWIFI(Conducted Measurement)

Product Name: RF Wireless module

Trade Mark: INNOCN

Test Model: AW.S905D3.03

Environmental Conditions

Temperature:	25.4° C
Relative Humidity:	51.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Simba Huang
Supervised by:	Seal Chen



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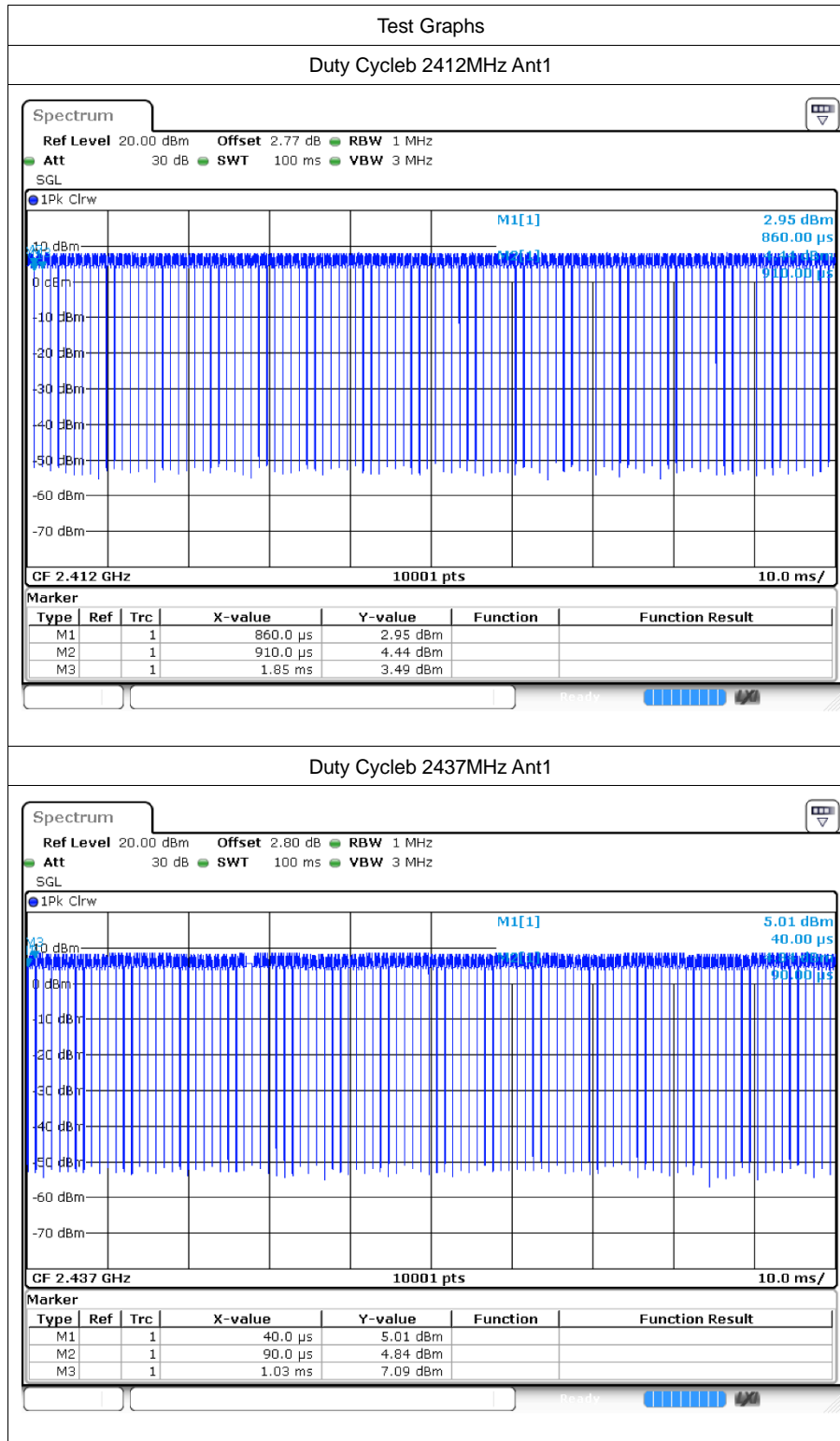
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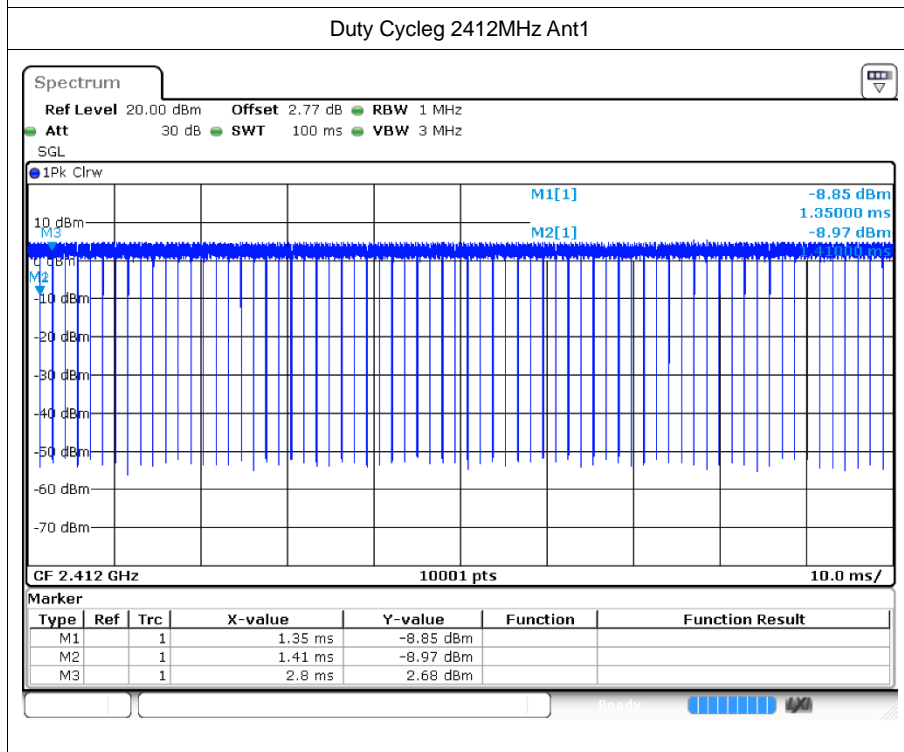
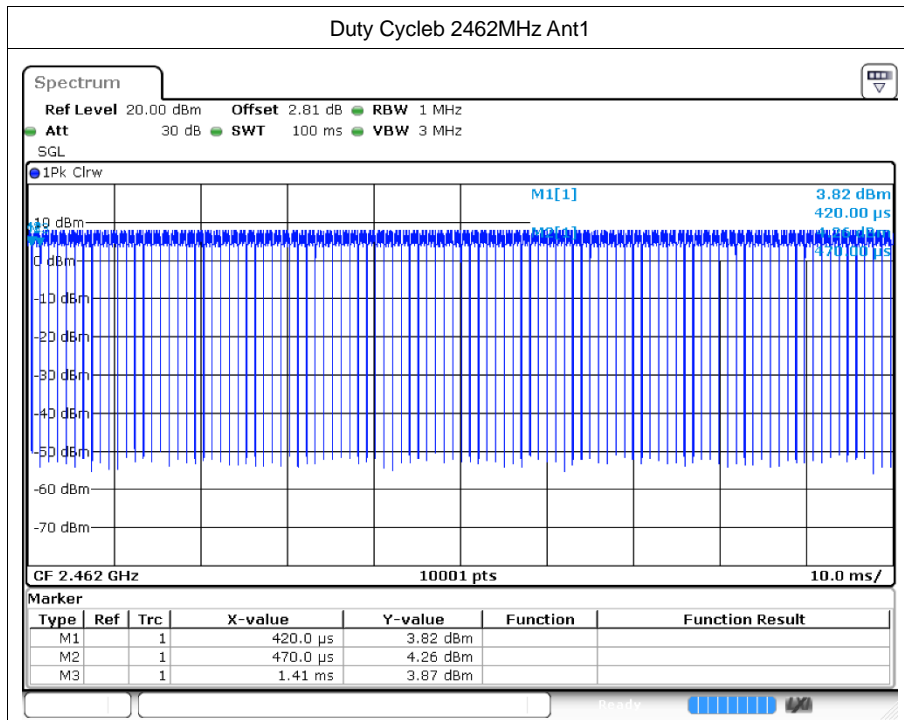
1 Duty Cycle

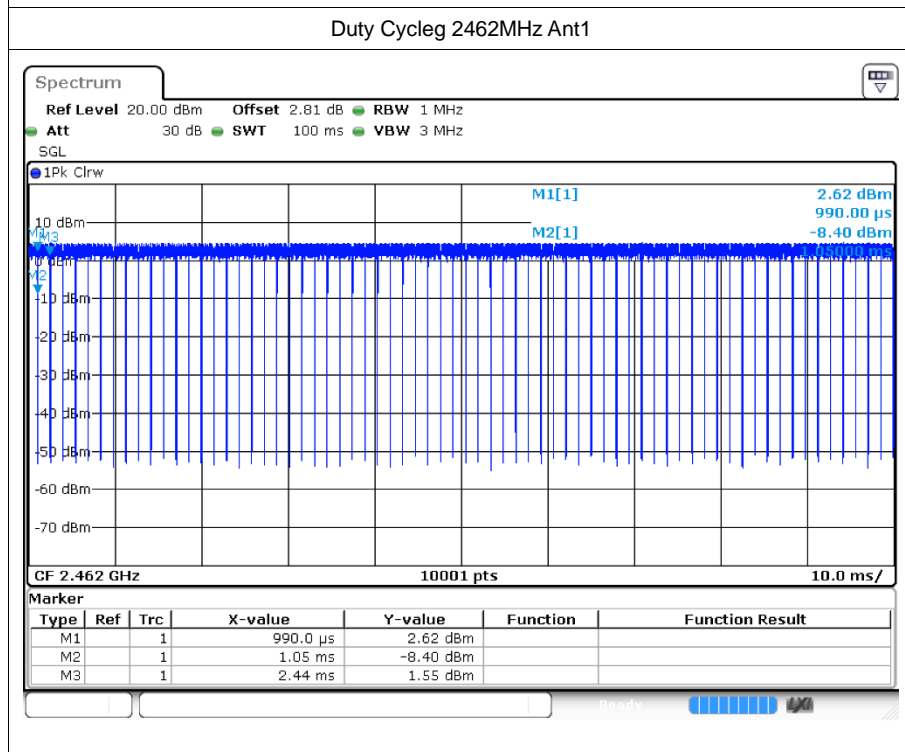
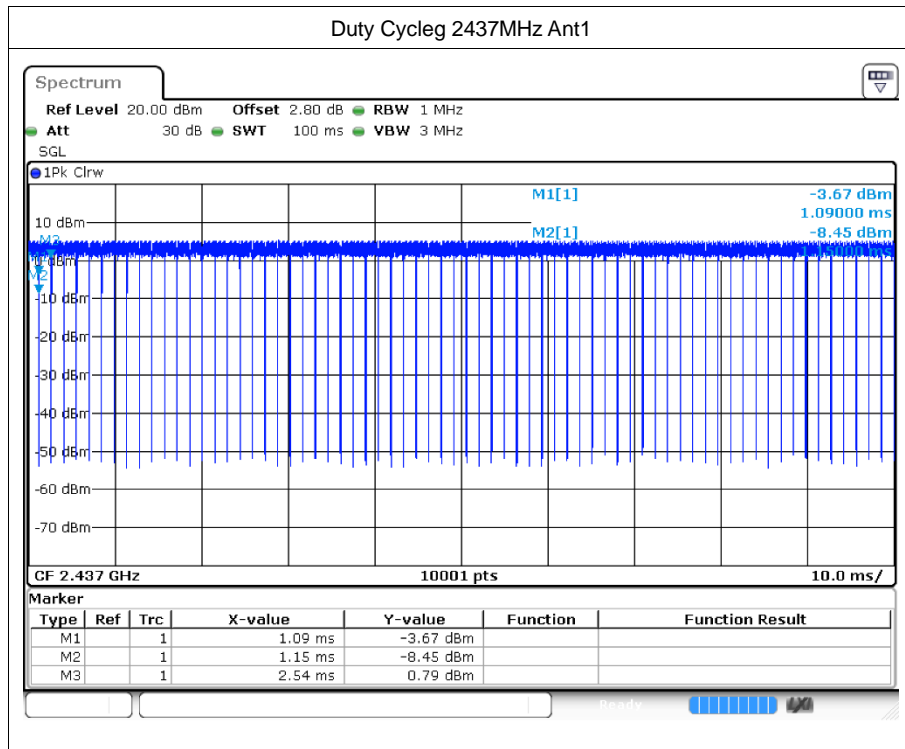
1.1 Test Result

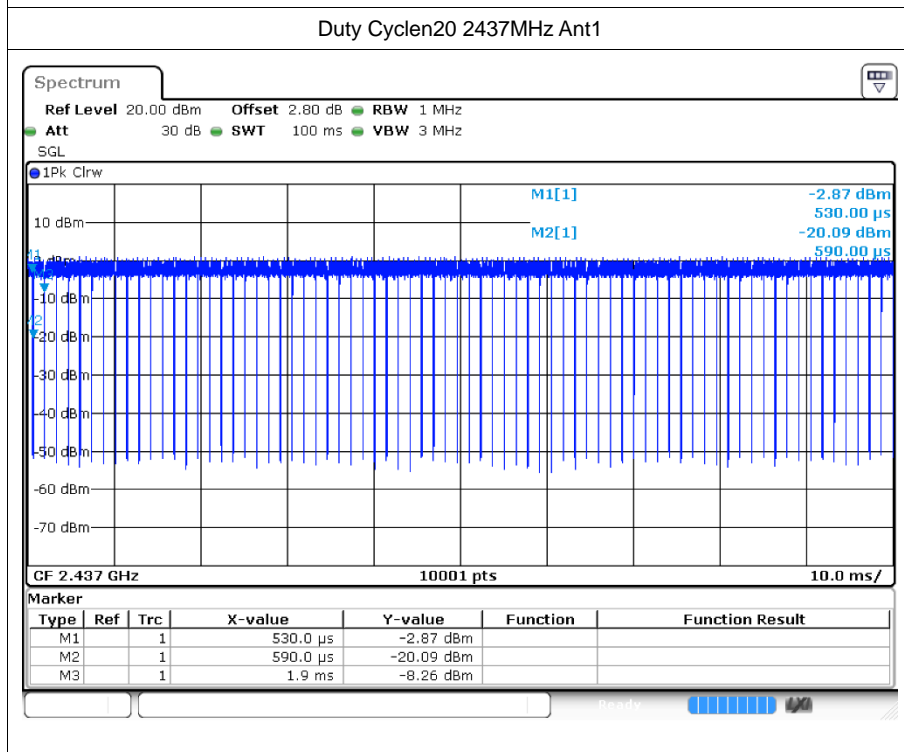
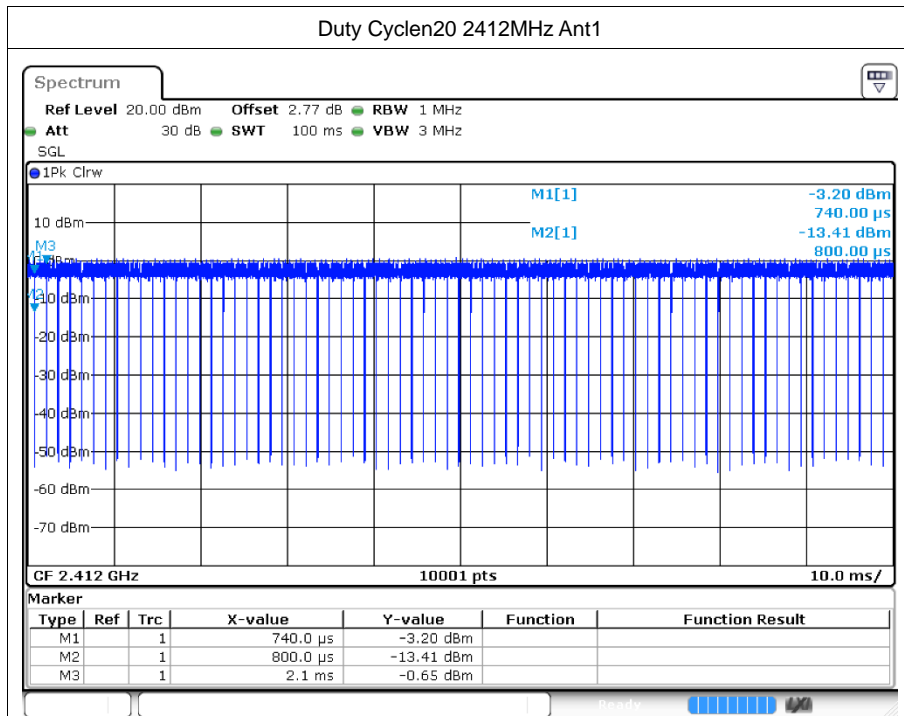
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b	2412	Ant1	95.49	1.06
b	2437	Ant1	95.44	1.06
b	2462	Ant1	95.43	1.06
g	2412	Ant1	95.49	1.06
g	2437	Ant1	95.44	1.06
g	2462	Ant1	95.43	1.06
n20	2412	Ant1	96.23	0.77
n20	2437	Ant1	96.21	0.76
n20	2462	Ant1	96.16	0.77
n40	2422	Ant1	92.95	1.54
n40	2437	Ant1	92.95	1.54
n40	2452	Ant1	92.38	1.54
b	2412	Ant2	95.45	1.06
b	2437	Ant2	95.45	1.06
b	2462	Ant2	95.43	1.08
g	2412	Ant2	95.45	1.06
g	2437	Ant2	95.45	1.06
g	2462	Ant2	95.43	1.08
n20	2412	Ant2	96.21	0.77
n20	2437	Ant2	96.17	0.77
n20	2462	Ant2	96.22	0.77
n40	2422	Ant2	91.51	1.56
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n40	2452	Ant2	92.04	1.54

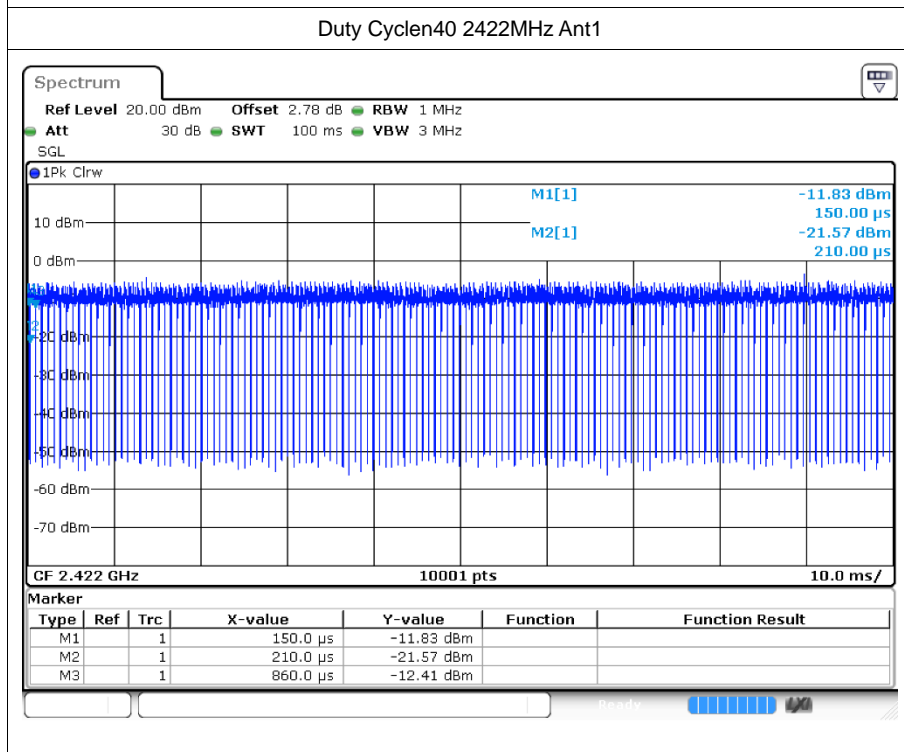
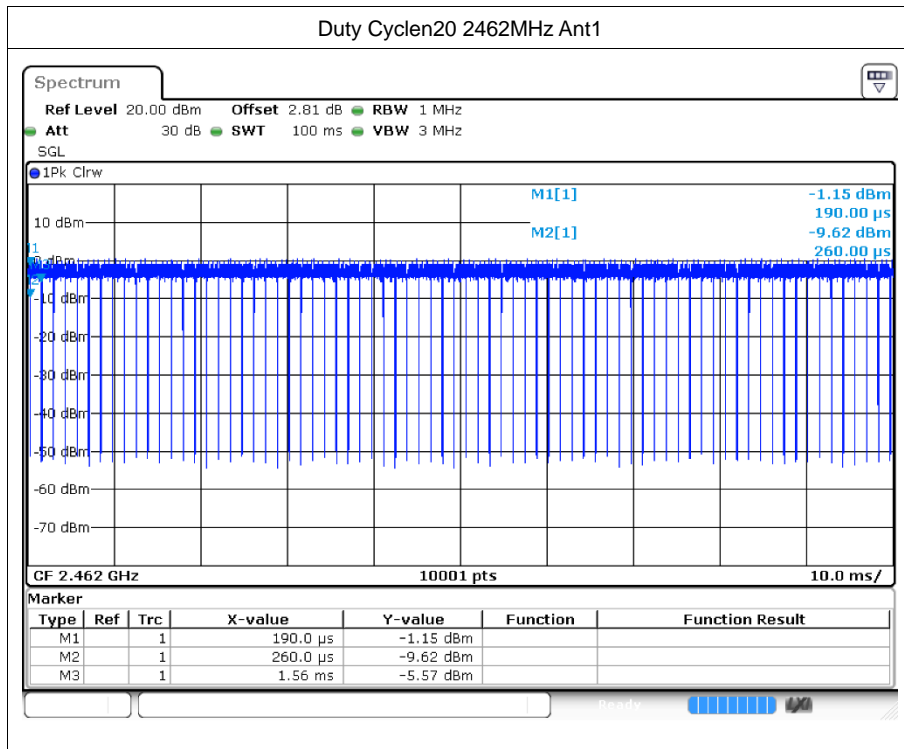
1.2 Test Graphs

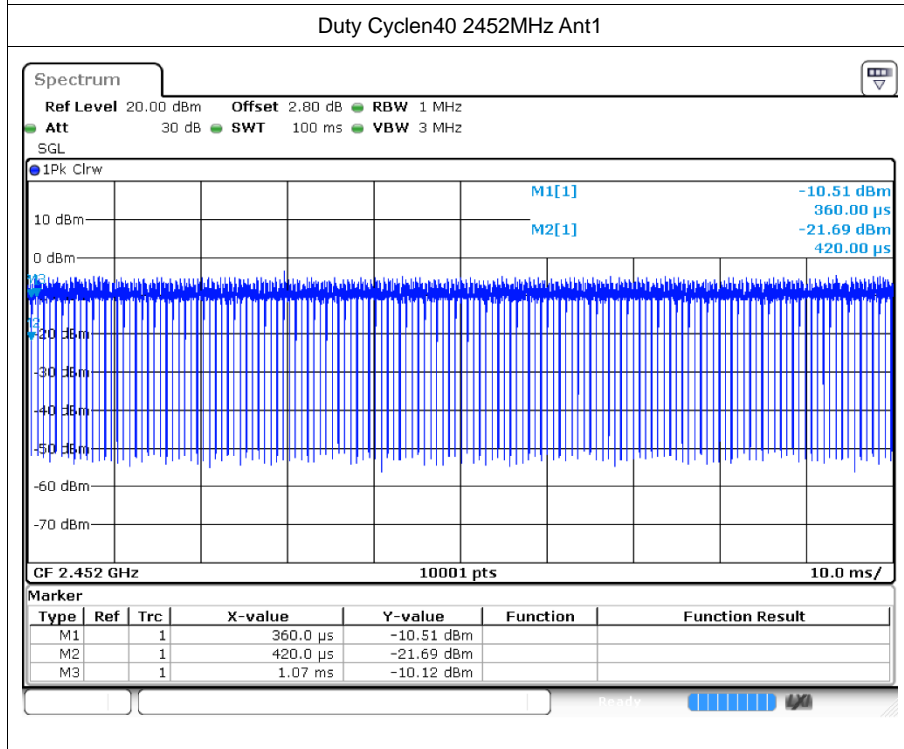
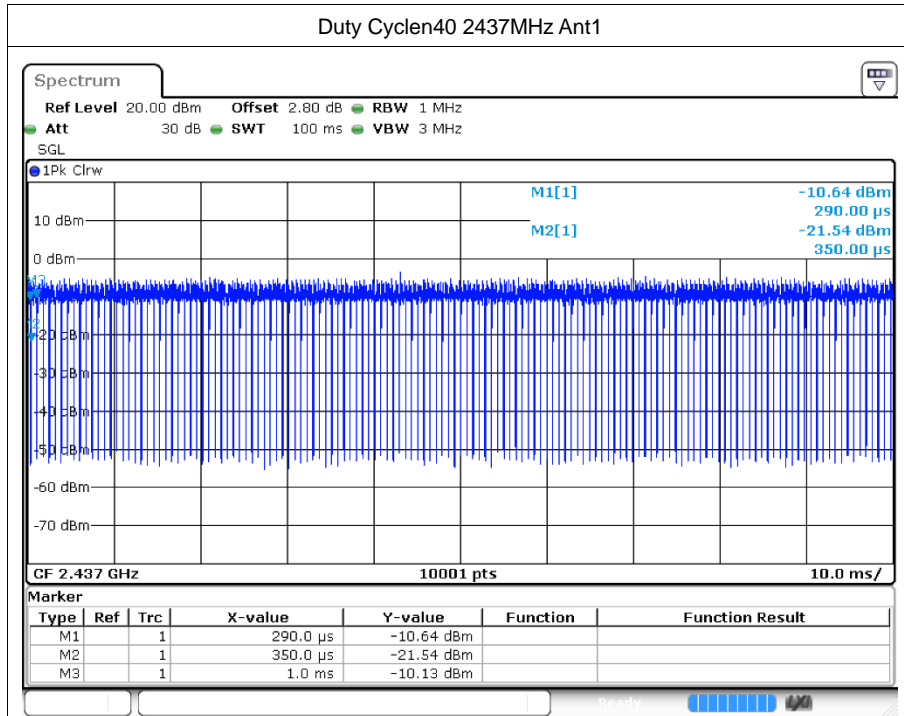


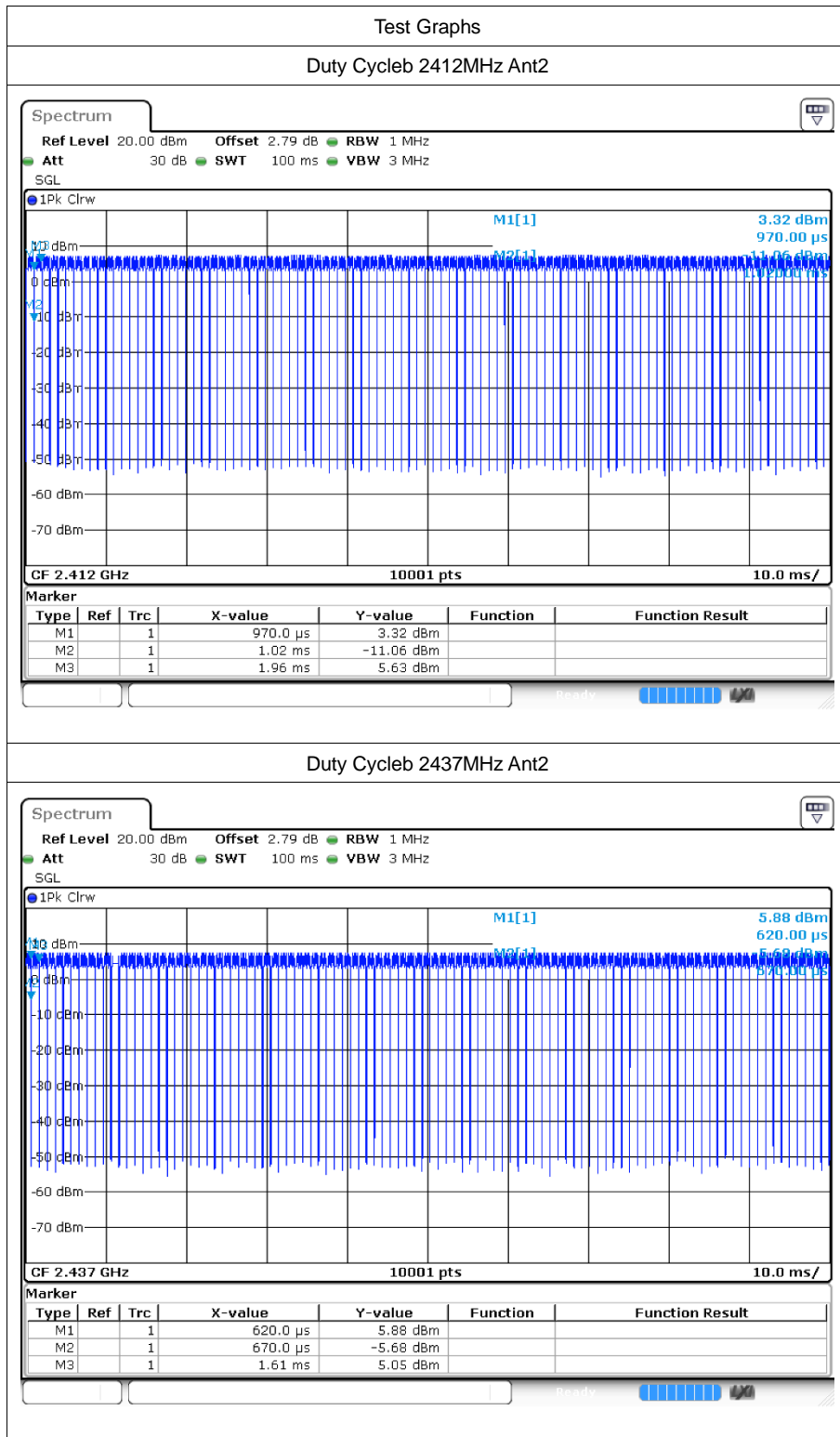


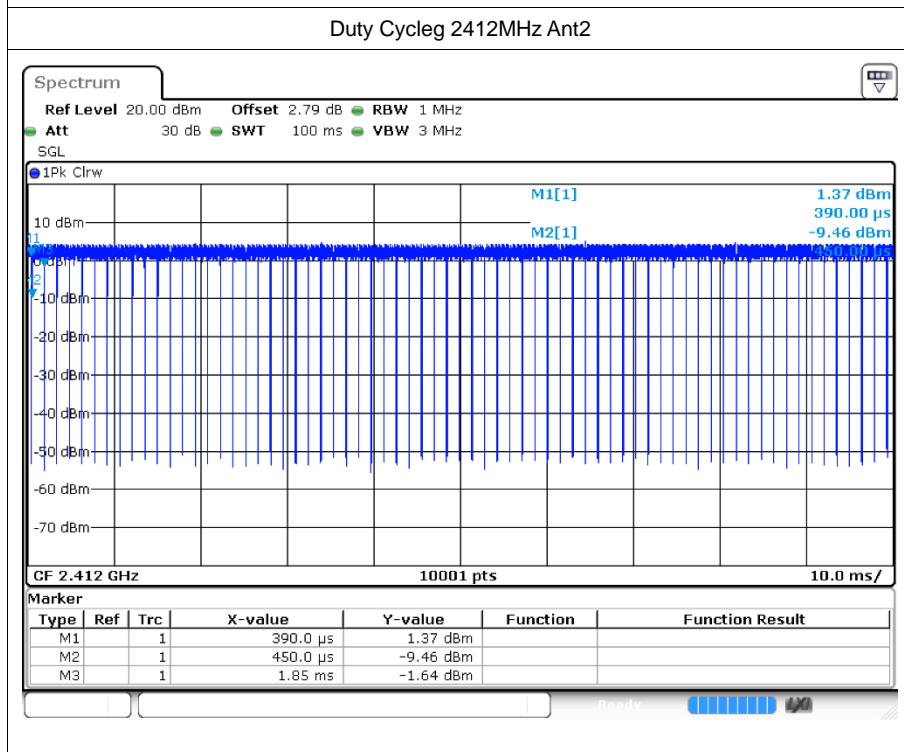
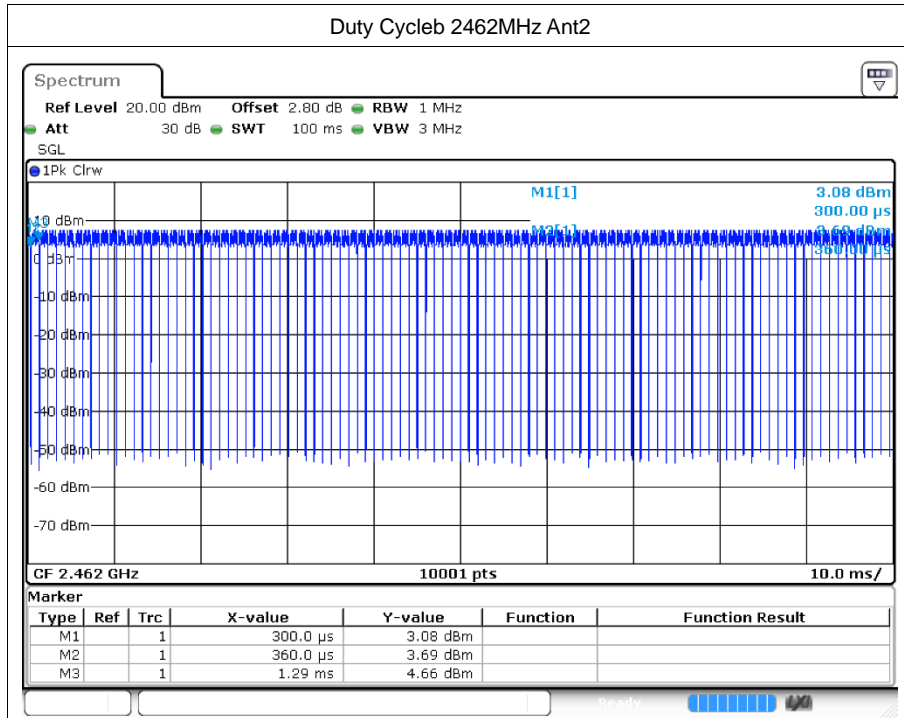


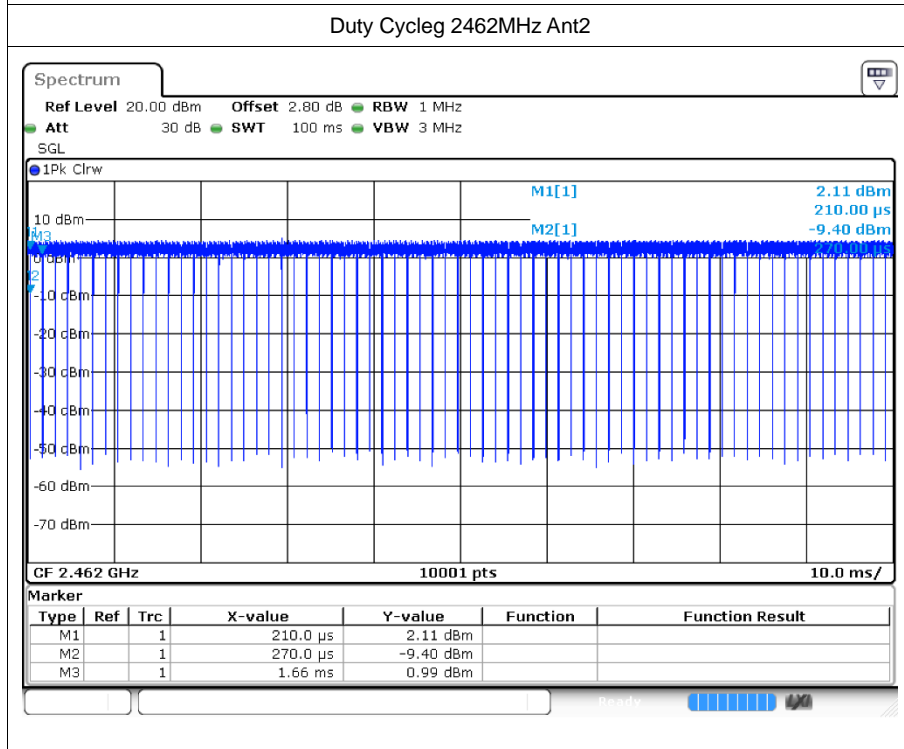
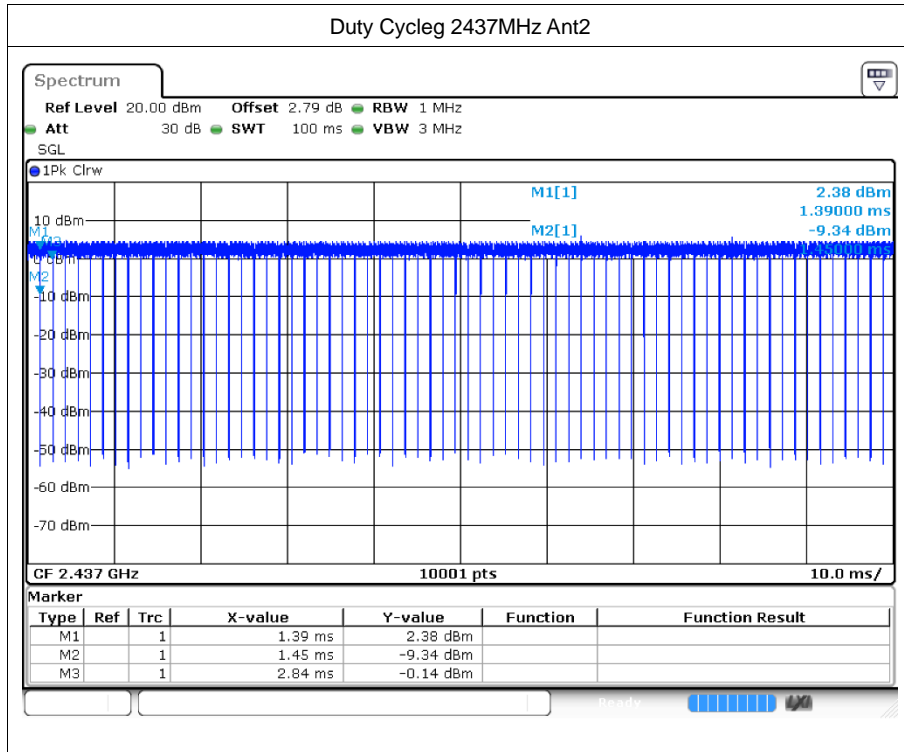


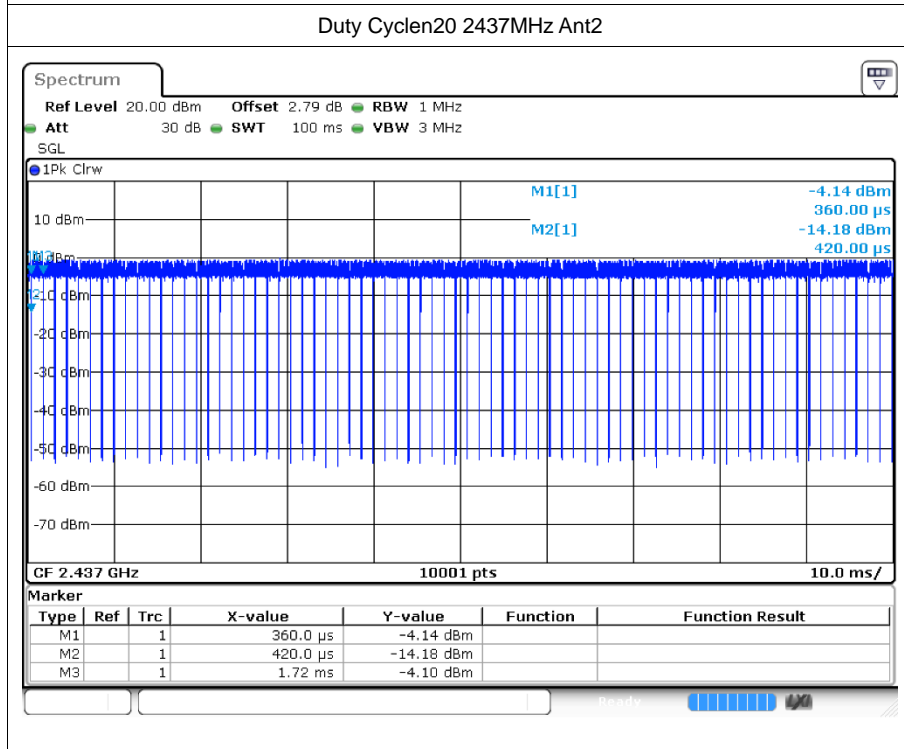
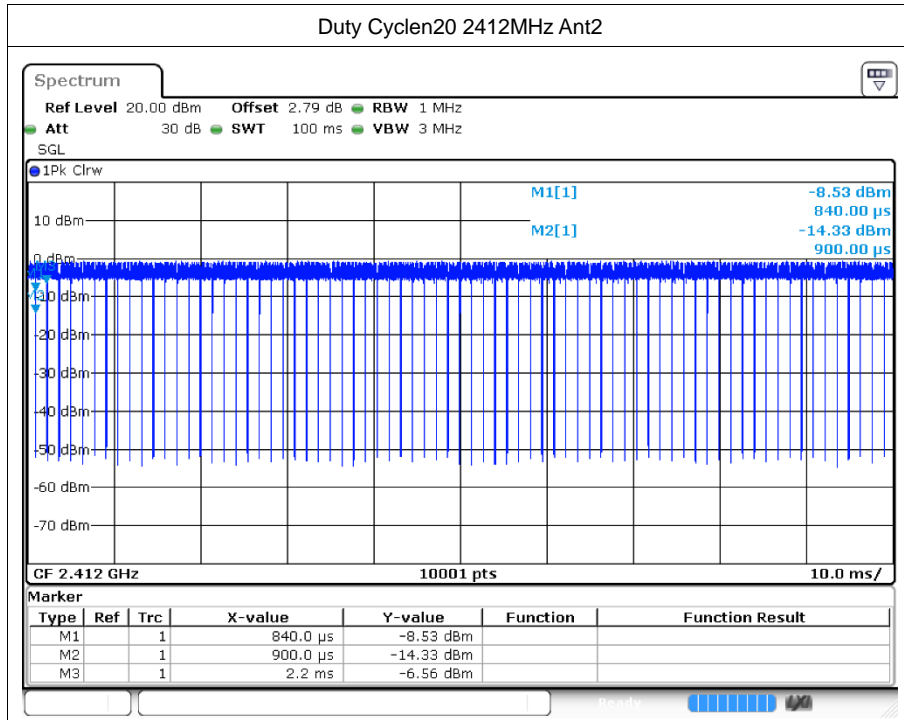


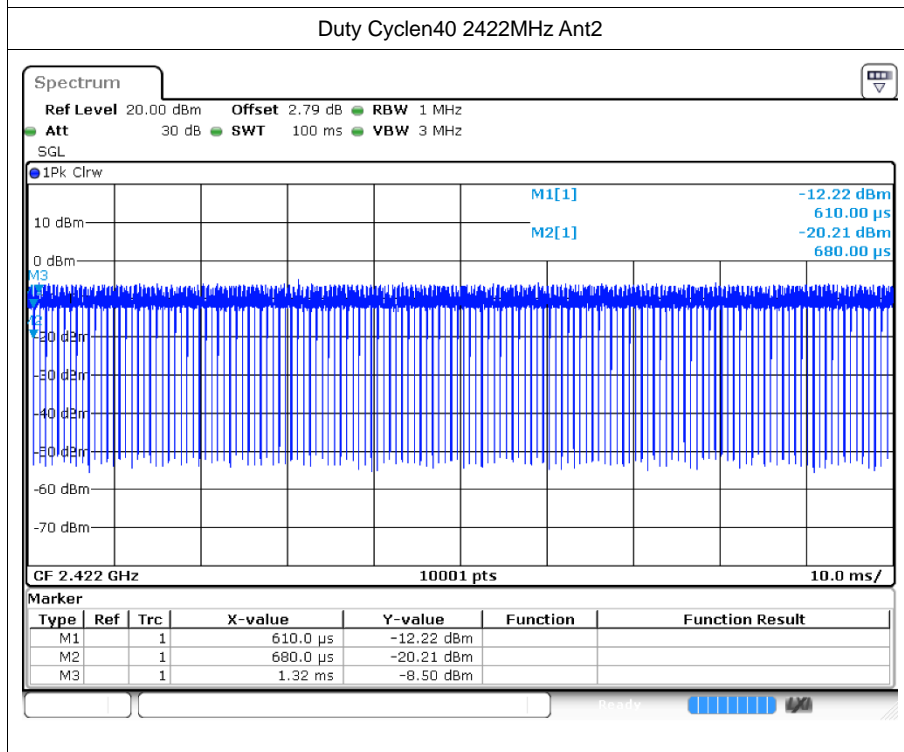
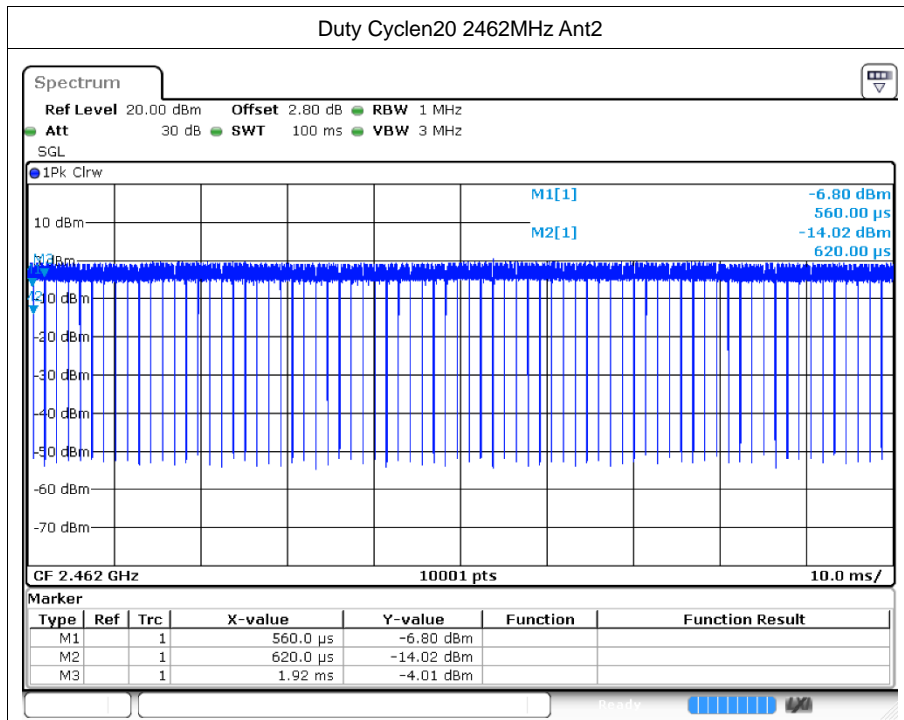


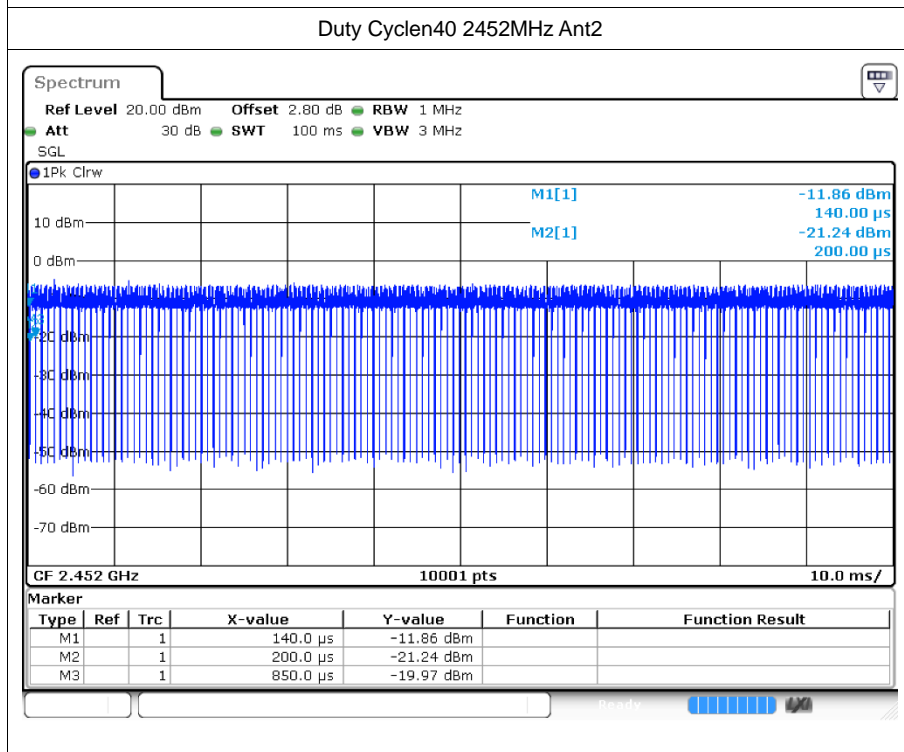
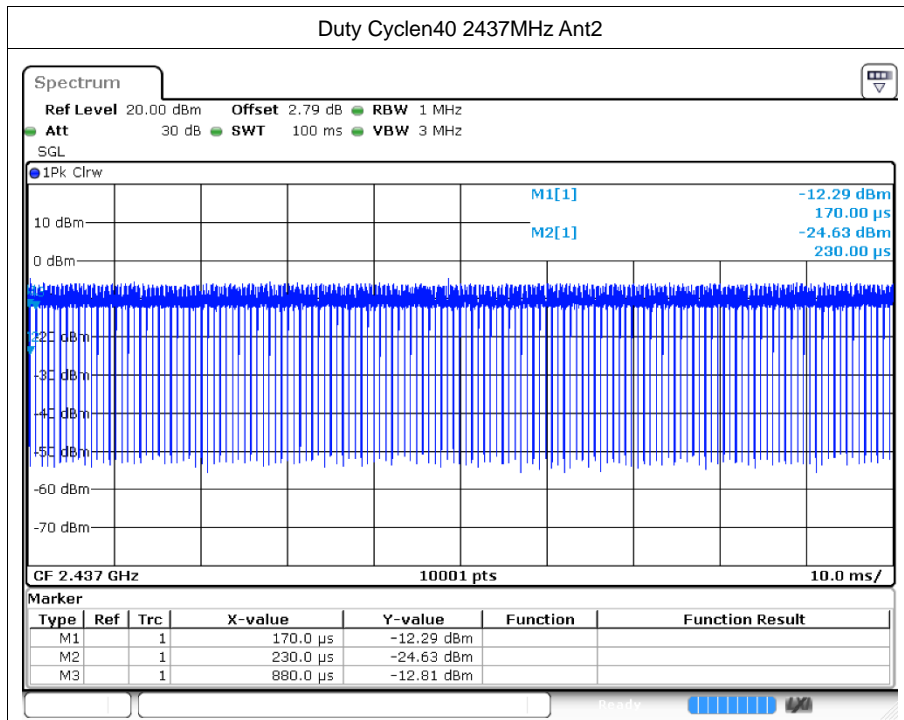














2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant1	16.5	30	Pass
b	2437	Ant1	16.57	30	Pass
b	2462	Ant1	16.15	30	Pass
b	2412	Ant2	15.51	30	Pass
b	2437	Ant2	15.63	30	Pass
b	2462	Ant2	14.99	30	Pass
g	2412	Ant1	14.83	30	Pass
g	2437	Ant1	15.15	30	Pass
g	2462	Ant1	14.73	30	Pass
g	2412	Ant2	14.47	30	Pass
g	2437	Ant2	14.52	30	Pass
g	2462	Ant2	14.62	30	Pass
n20	2412	Ant1	11.45	30	Pass
n20	2437	Ant1	11.7	30	Pass
n20	2462	Ant1	11.19	30	Pass
n20	2412	Ant2	10.92	30	Pass
n20	2437	Ant2	10.95	30	Pass
n20	2462	Ant2	11.03	30	Pass
n20	2412	Sum	14.2	30	Pass
n20	2437	Sum	14.35	30	Pass
n20	2462	Sum	14.12	30	Pass
n40	2422	Ant1	11.31	30	Pass
n40	2437	Ant1	11.51	30	Pass
n40	2452	Ant1	11.7	30	Pass
n40	2422	Ant2	10.79	30	Pass
n40	2437	Ant2	10.85	30	Pass
n40	2452	Ant2	10.8	30	Pass
n40	2422	Sum	14.07	30	Pass
n40	2437	Sum	14.2	30	Pass
n40	2452	Sum	14.28	30	Pass

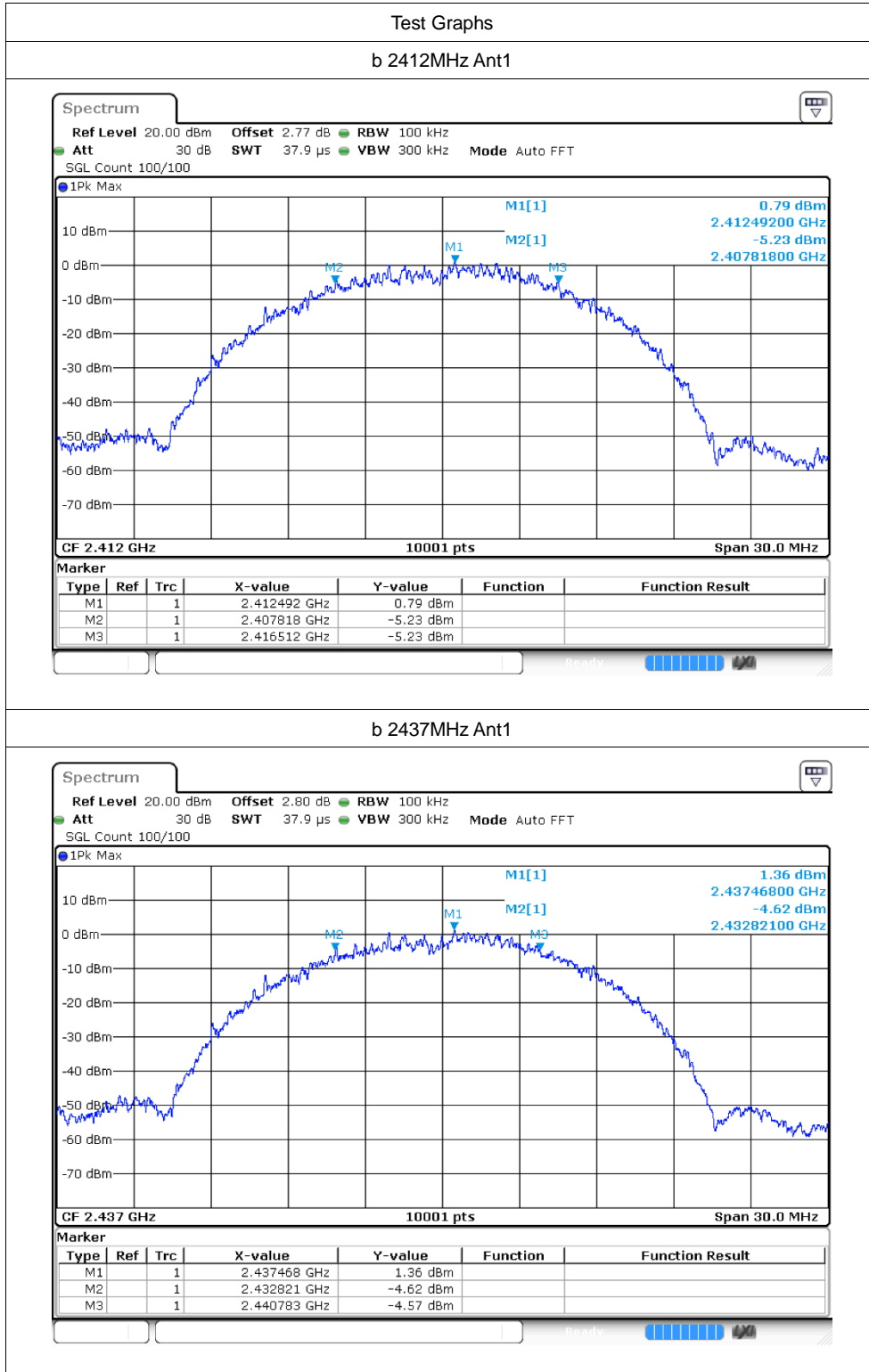


3 -6dB Bandwidth

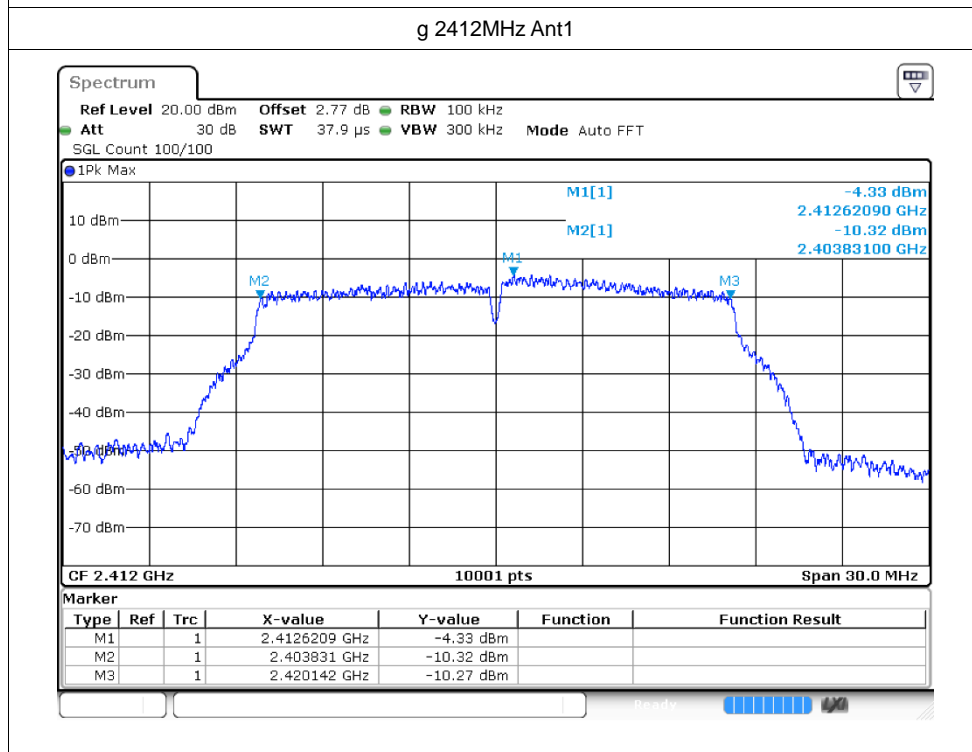
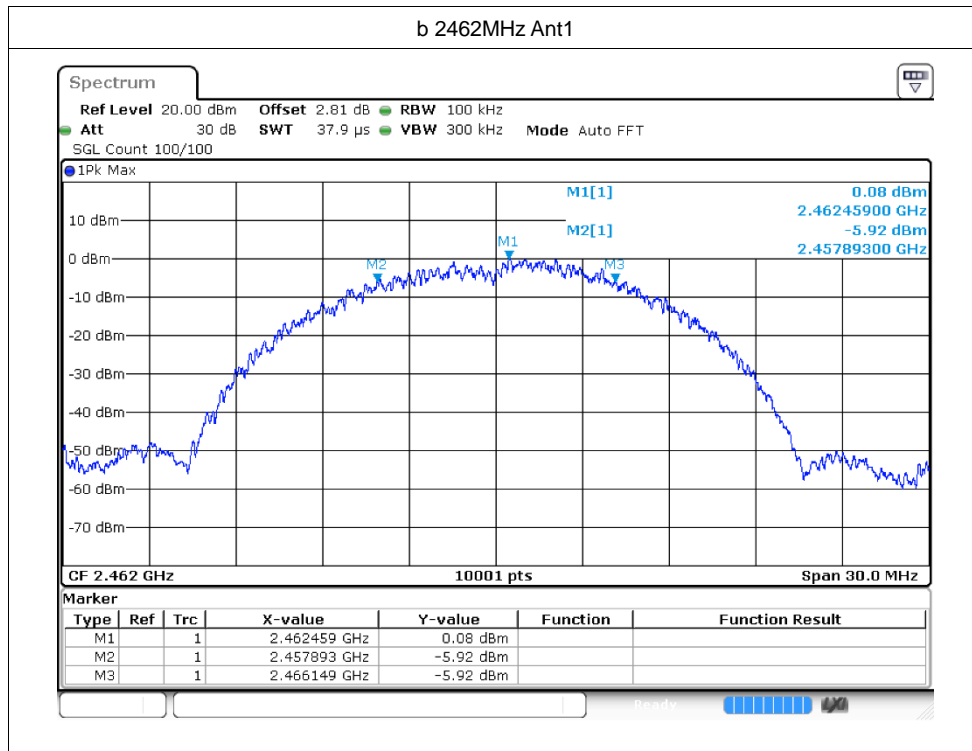
3.1 Test Result

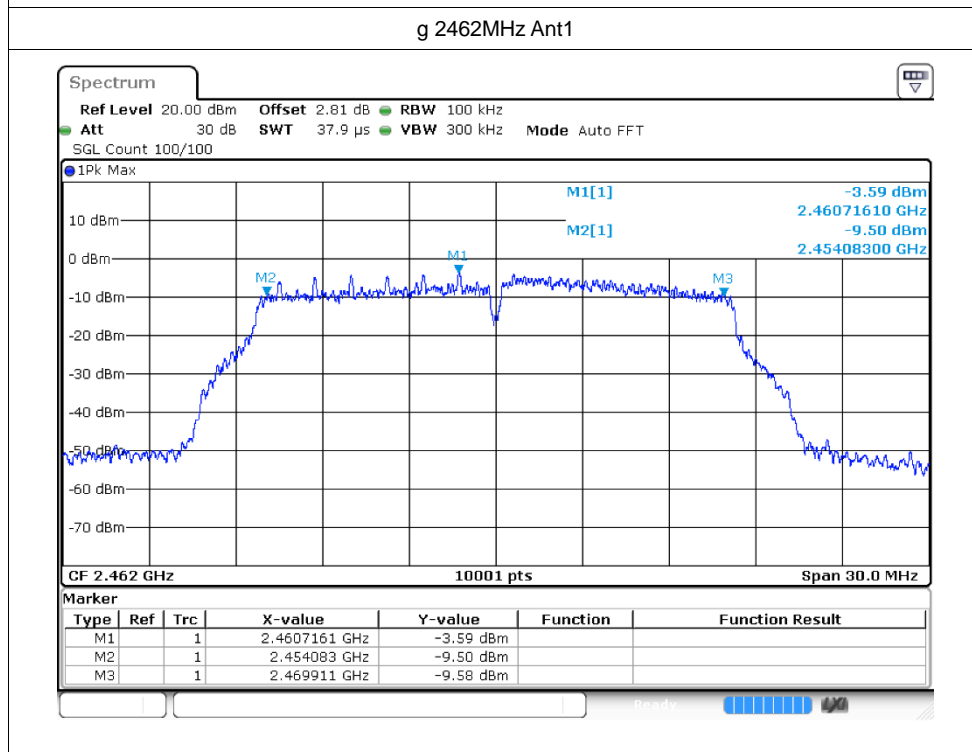
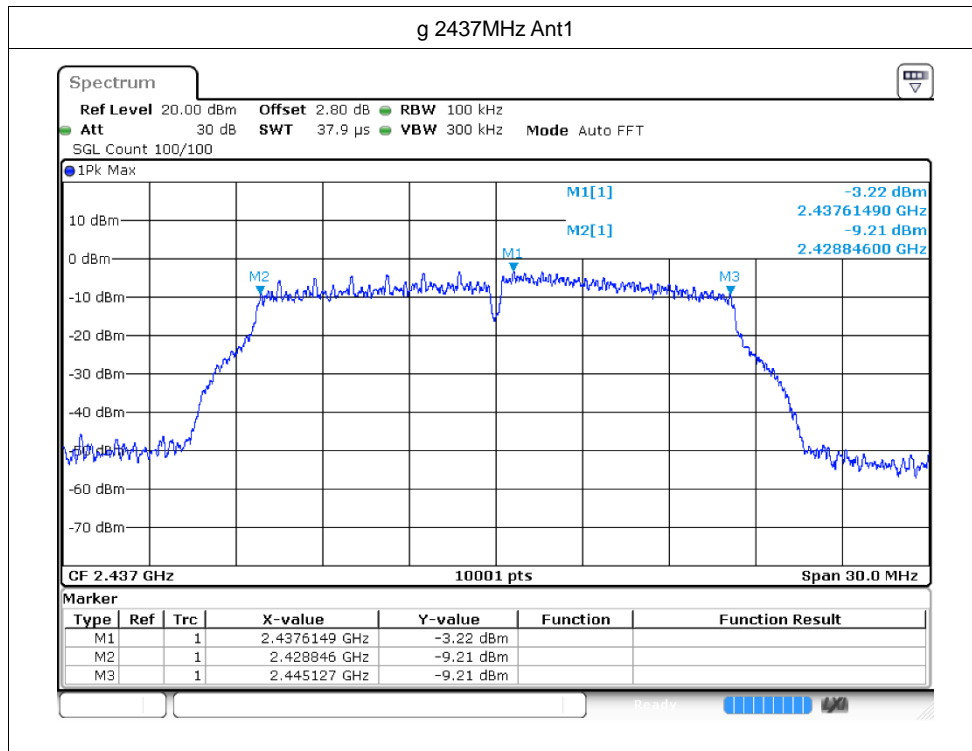
Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	8.694	0.5	Pass
b	2437	Ant1	7.962	0.5	Pass
b	2462	Ant1	8.256	0.5	Pass
g	2412	Ant1	16.311	0.5	Pass
g	2437	Ant1	16.281	0.5	Pass
g	2462	Ant1	15.828	0.5	Pass
n20	2412	Ant1	15.09	0.5	Pass
n20	2437	Ant1	14.706	0.5	Pass
n20	2462	Ant1	13.848	0.5	Pass
n40	2422	Ant1	35.436	0.5	Pass
n40	2437	Ant1	31.692	0.5	Pass
n40	2452	Ant1	33.852	0.5	Pass
b	2412	Ant2	8.322	0.5	Pass
b	2437	Ant2	7.806	0.5	Pass
b	2462	Ant2	8.409	0.5	Pass
g	2412	Ant2	16.314	0.5	Pass
g	2437	Ant2	16.029	0.5	Pass
g	2462	Ant2	13.845	0.5	Pass
n20	2412	Ant2	13.182	0.5	Pass
n20	2437	Ant2	14.661	0.5	Pass
n20	2462	Ant2	15.639	0.5	Pass
n40	2422	Ant2	36.324	0.5	Pass
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n40	2452	Ant2	35.712	0.5	Pass

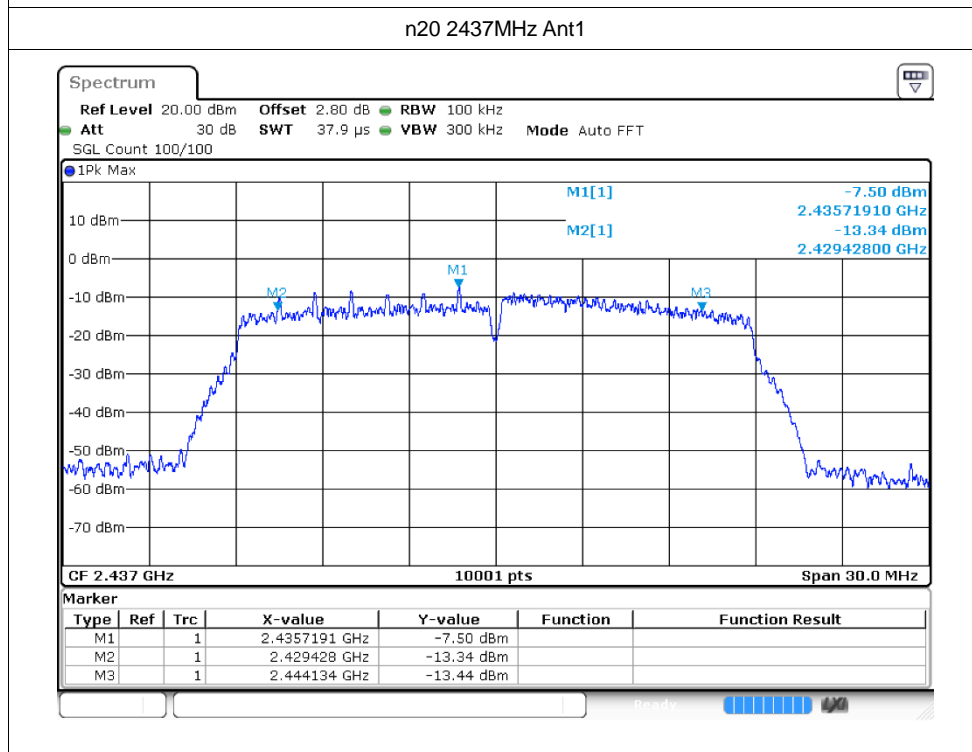
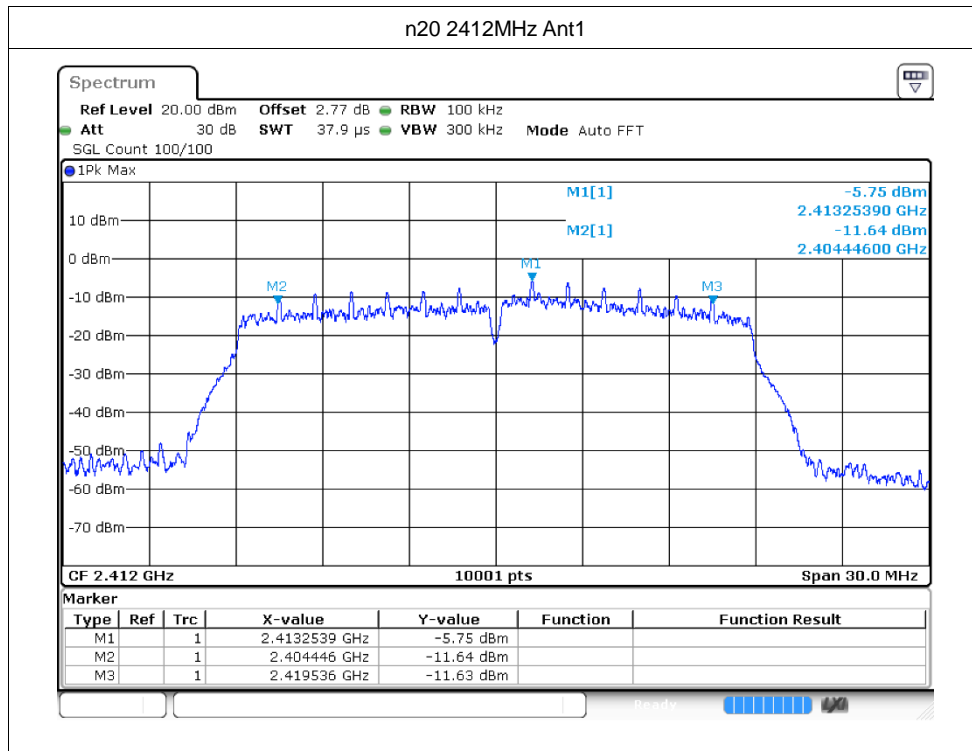
3.2 Test Graphs

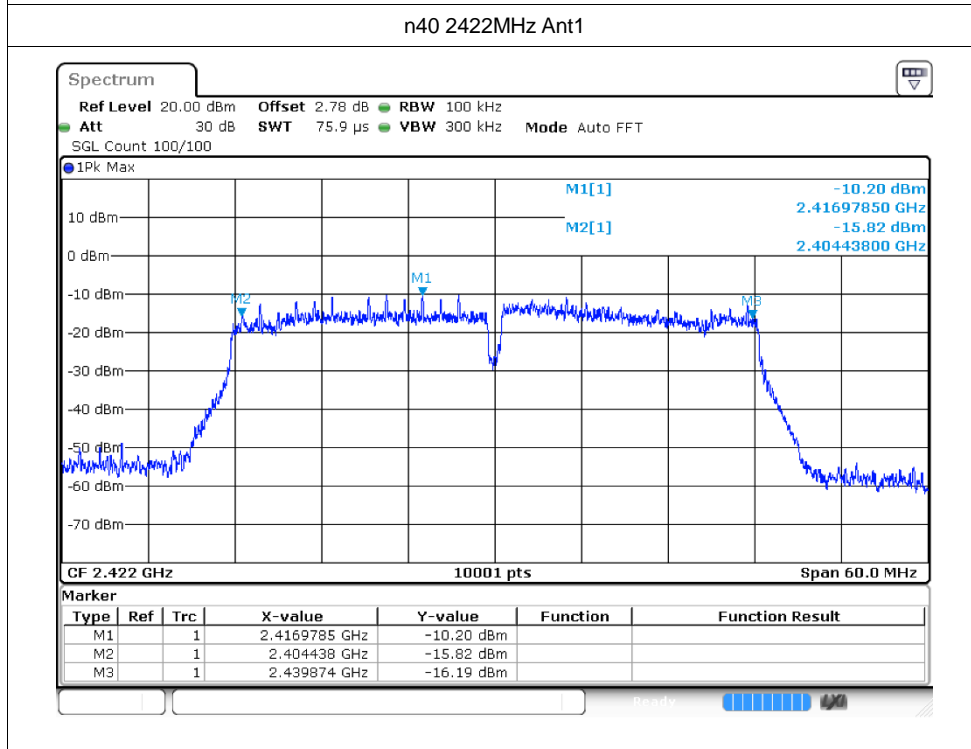
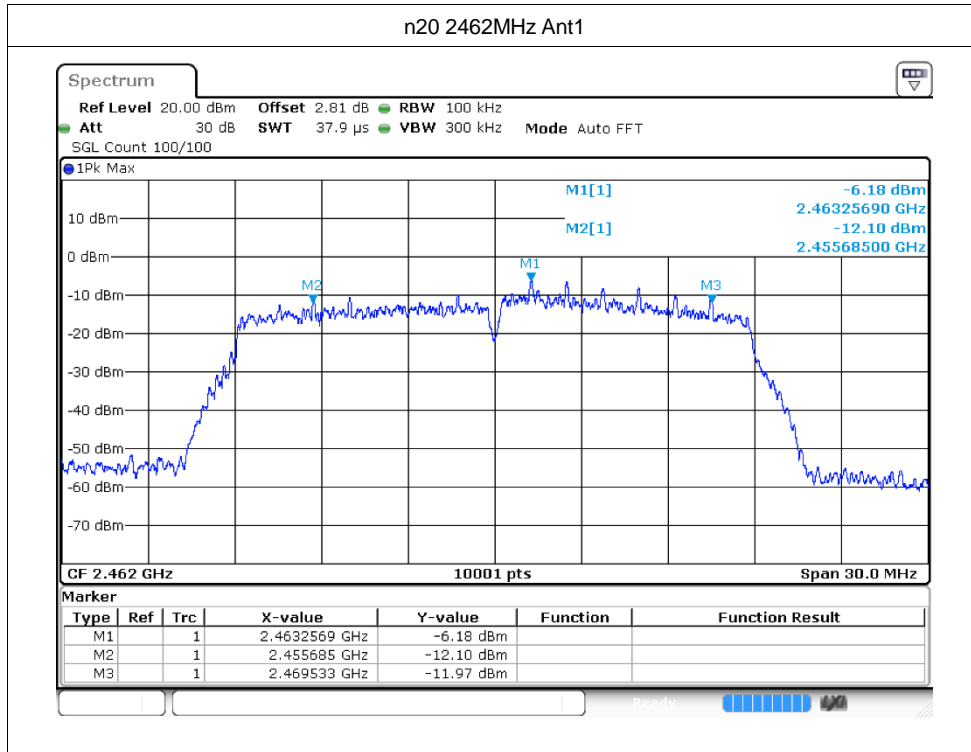


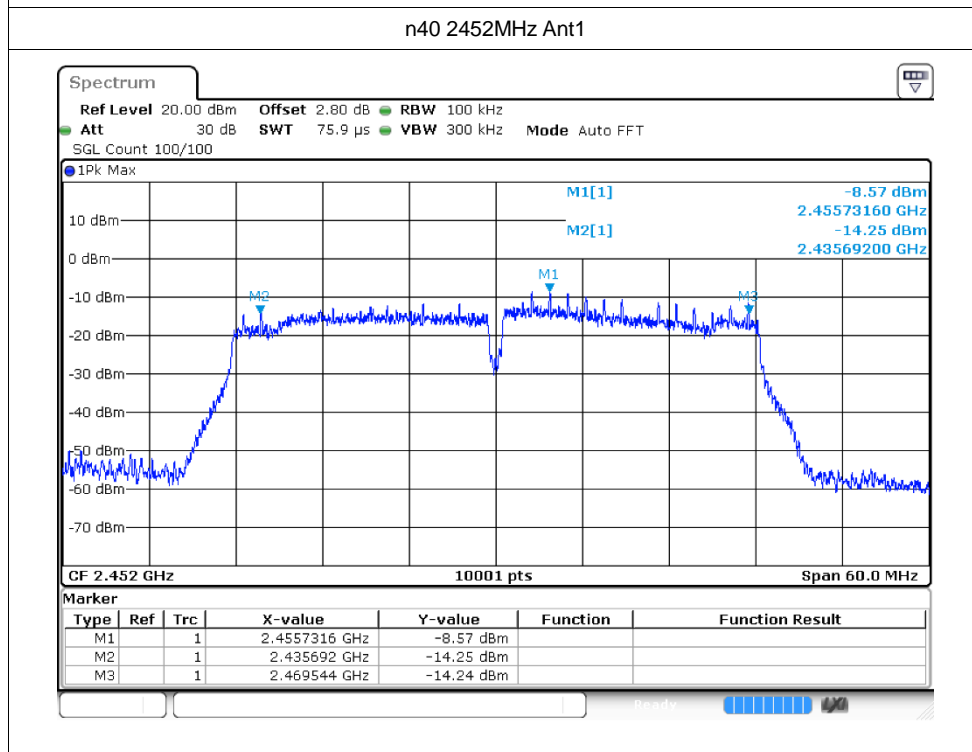
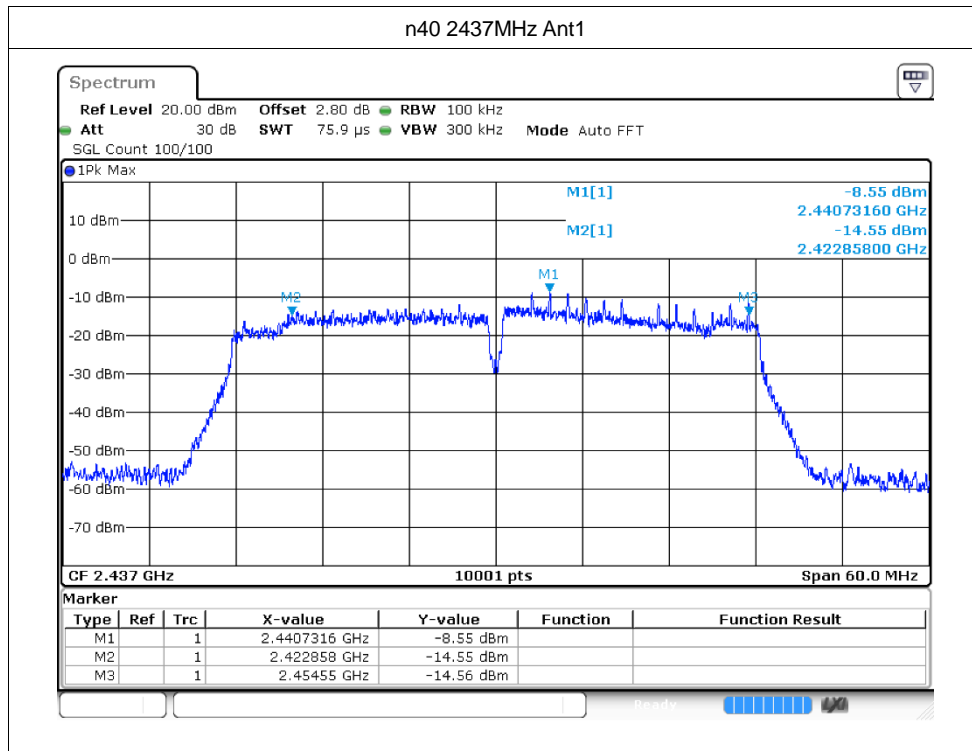
b 2437MHz Ant1

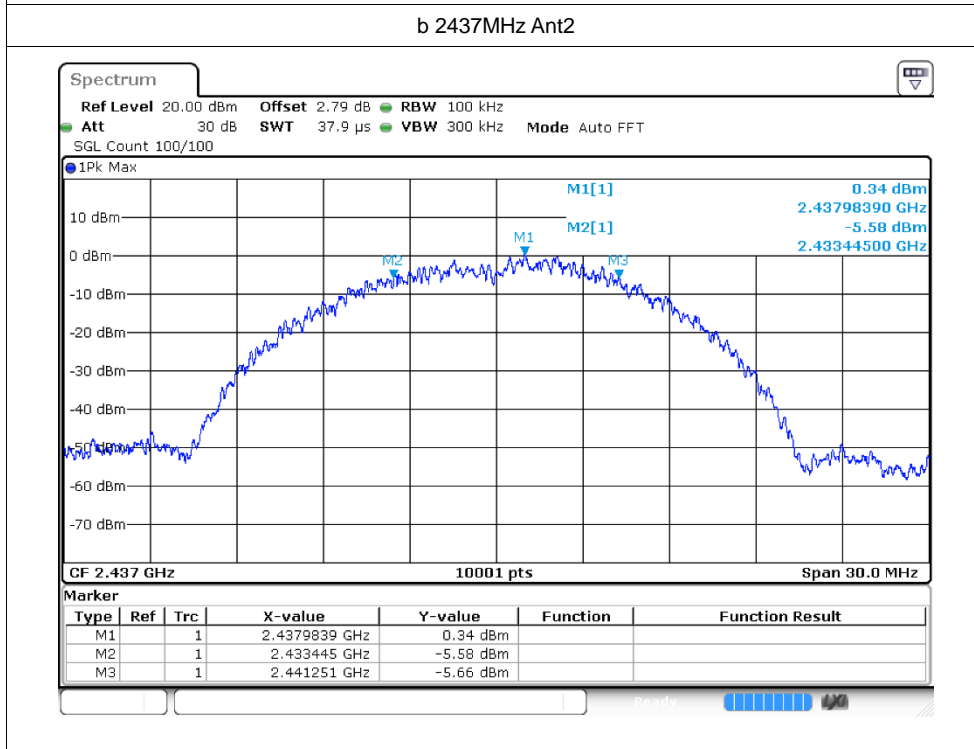
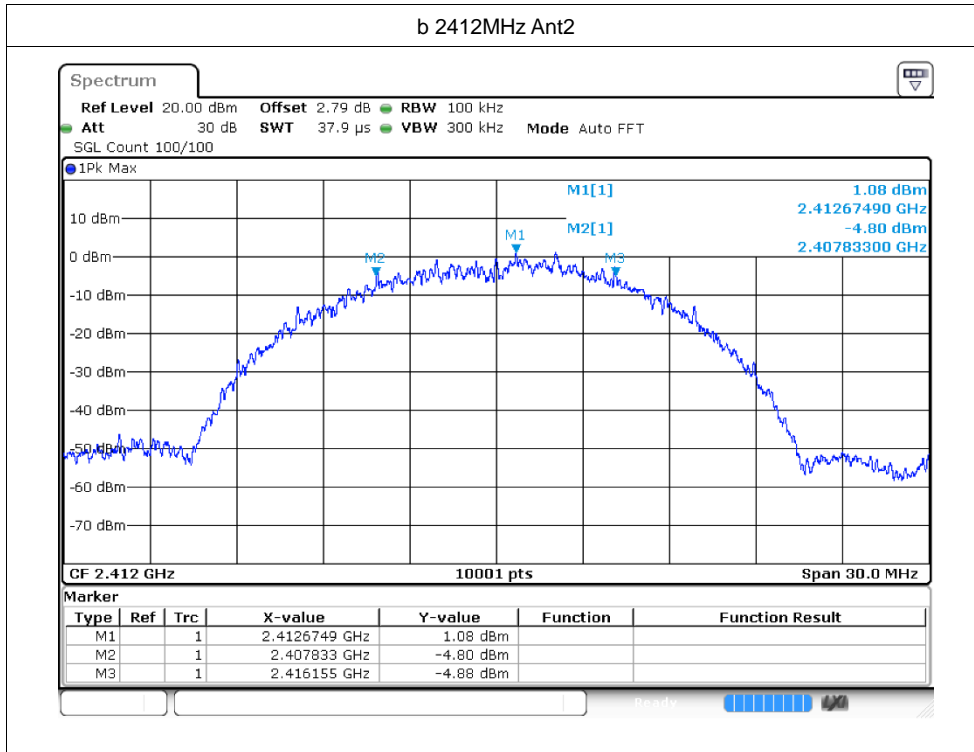


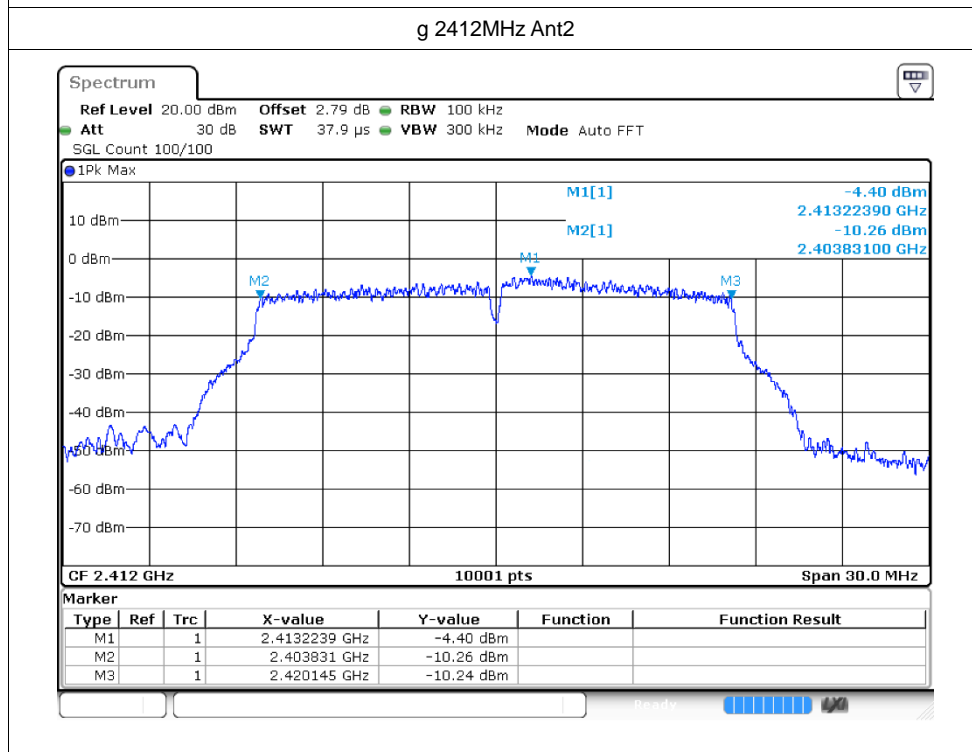
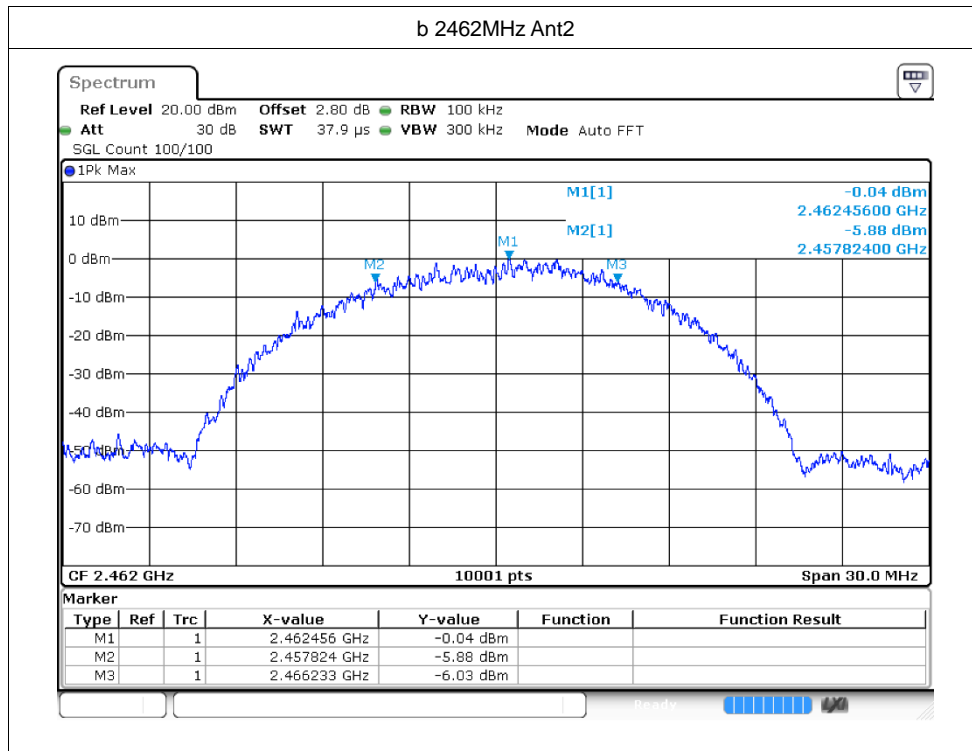


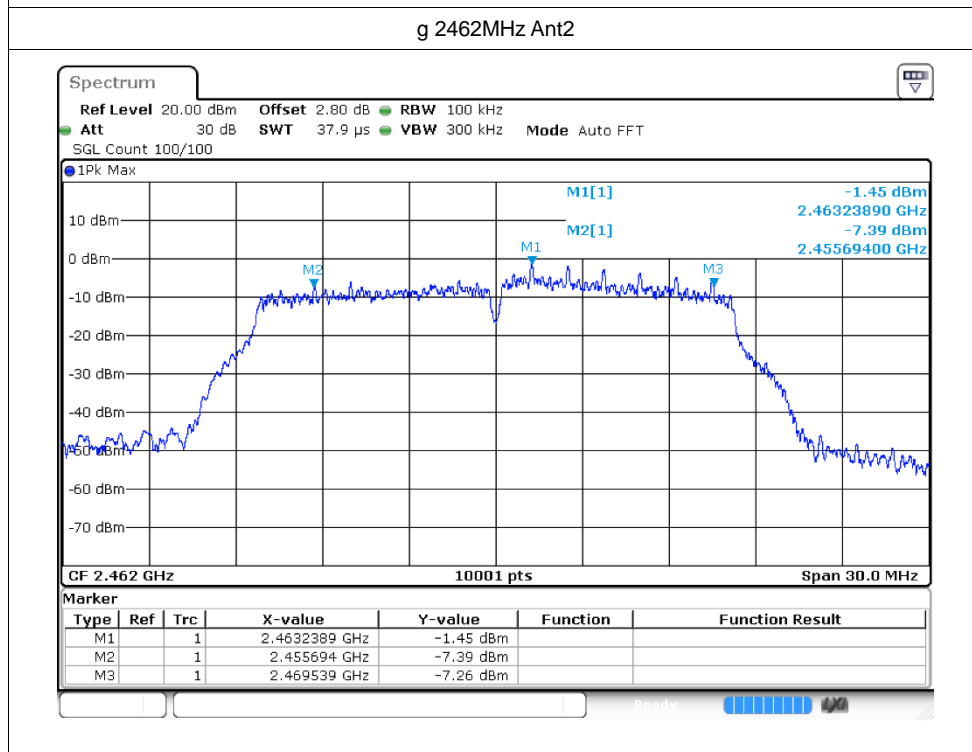
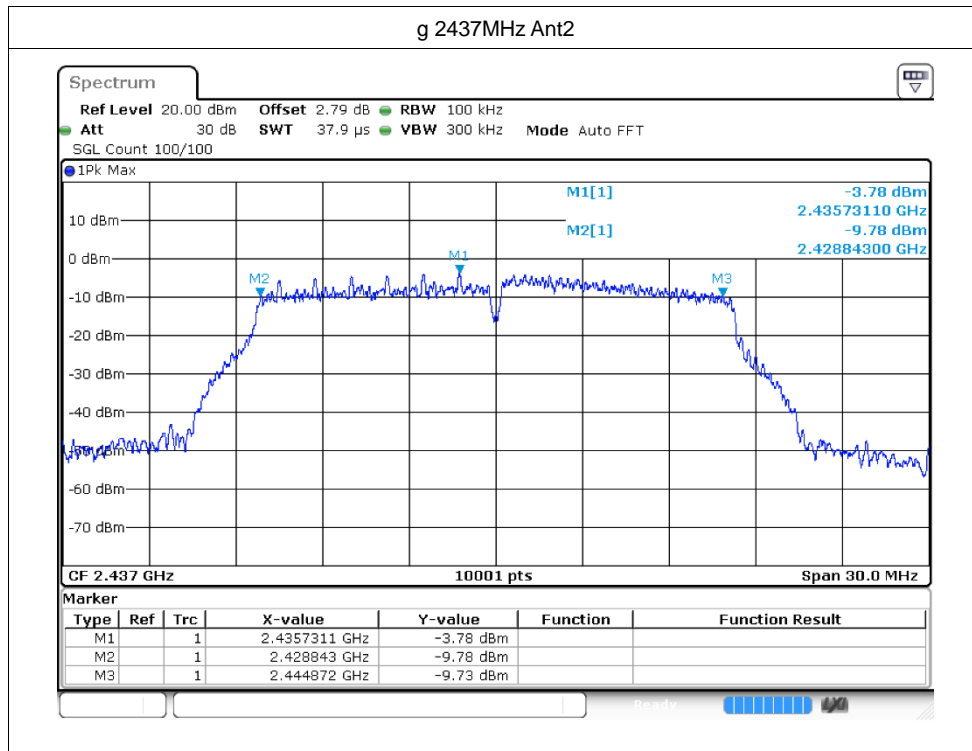


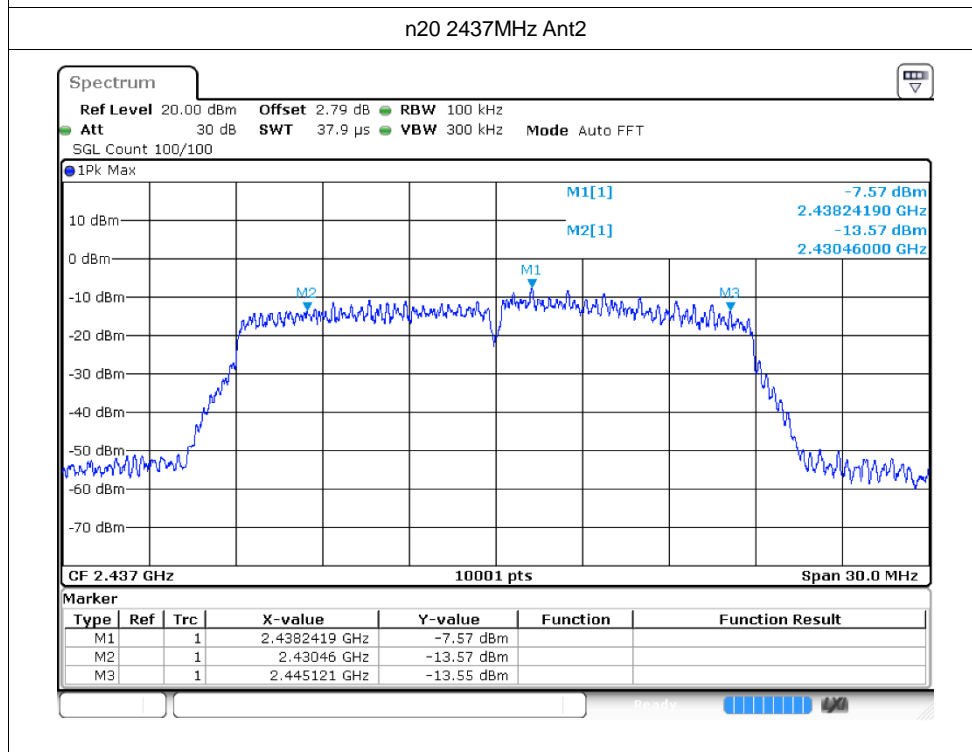
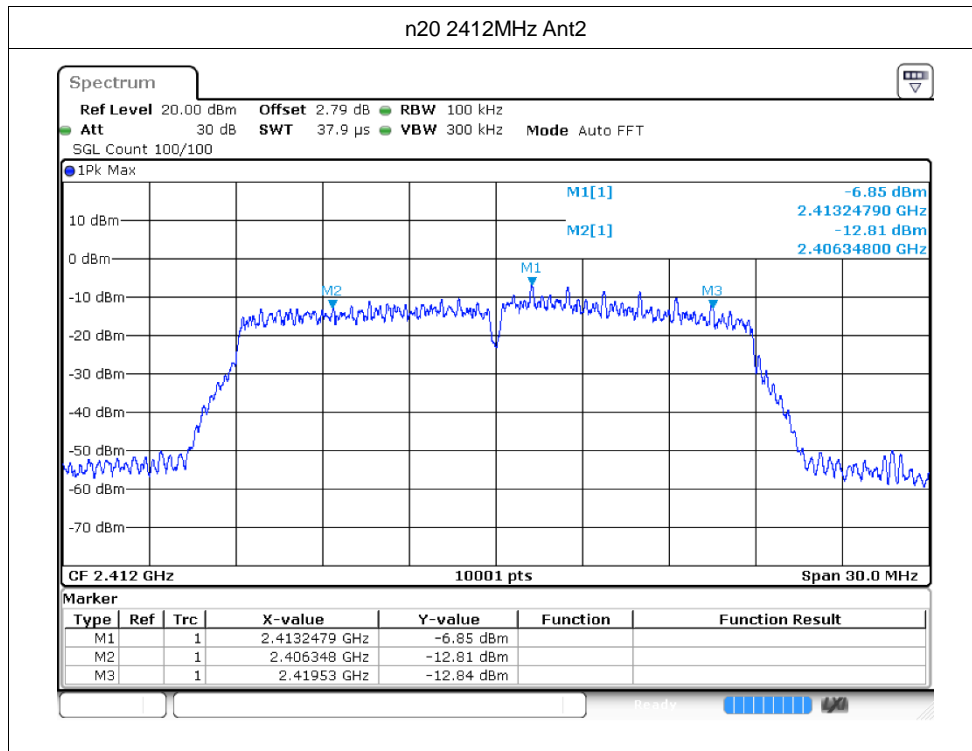


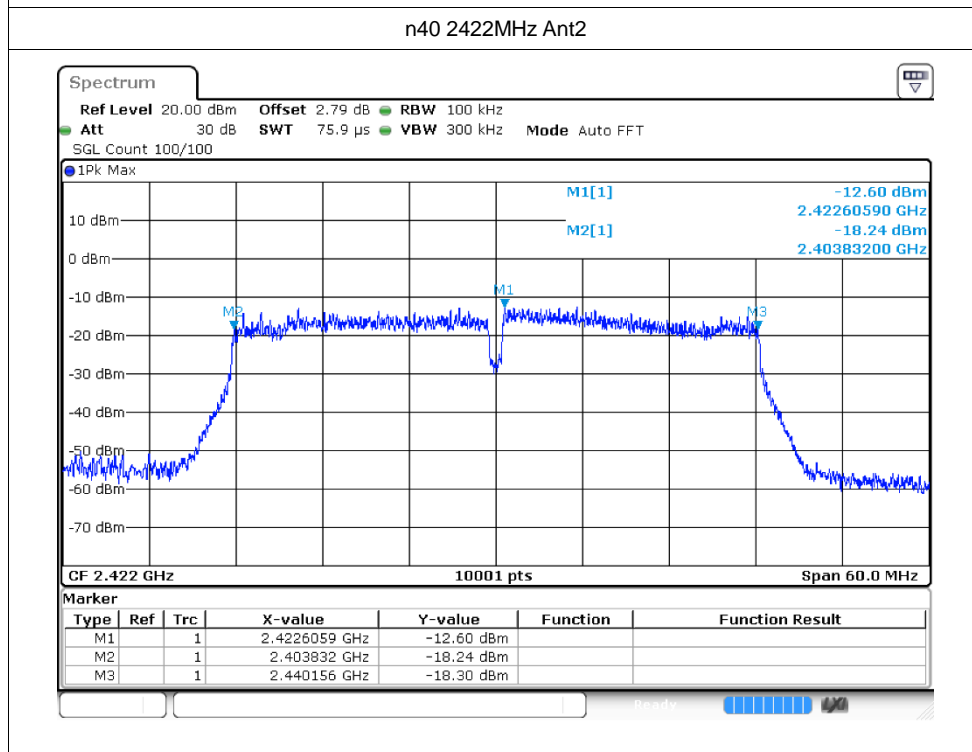
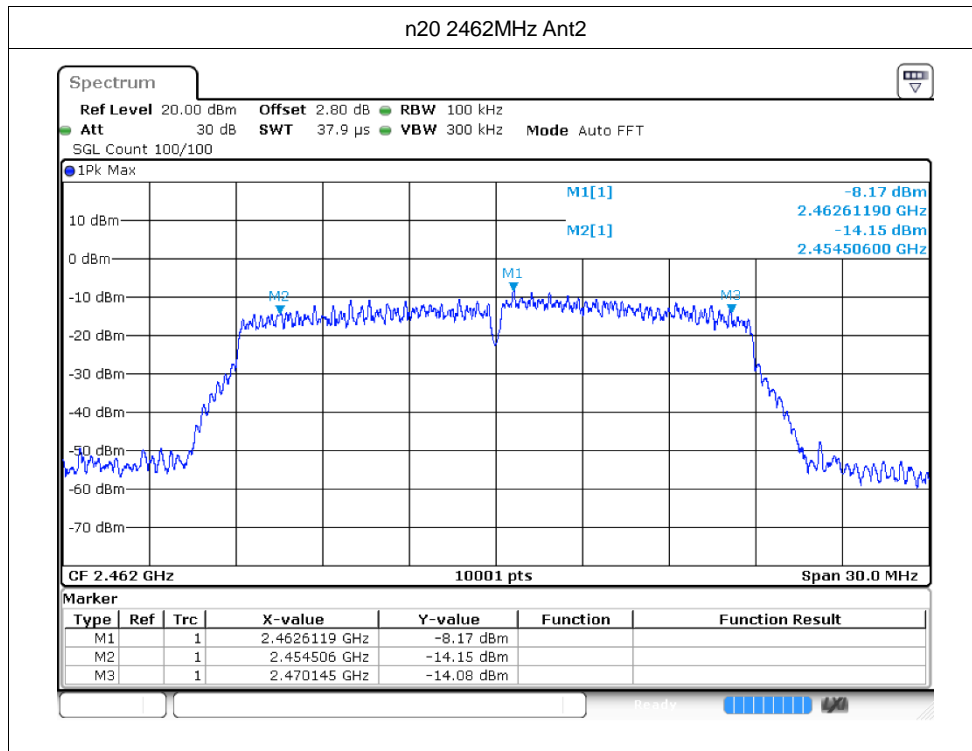


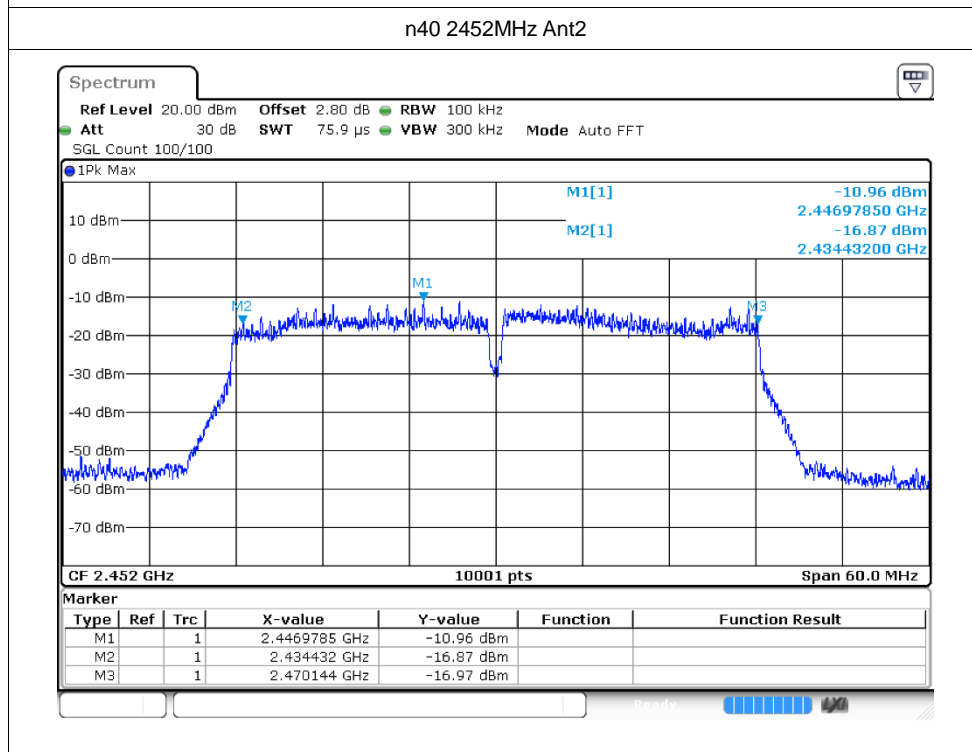
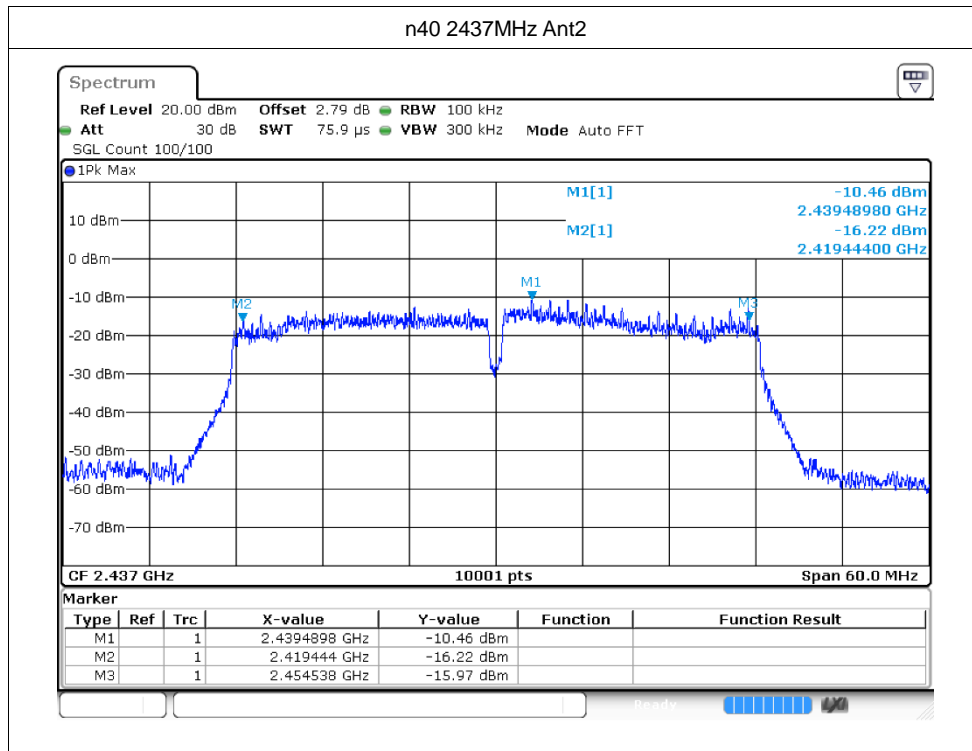










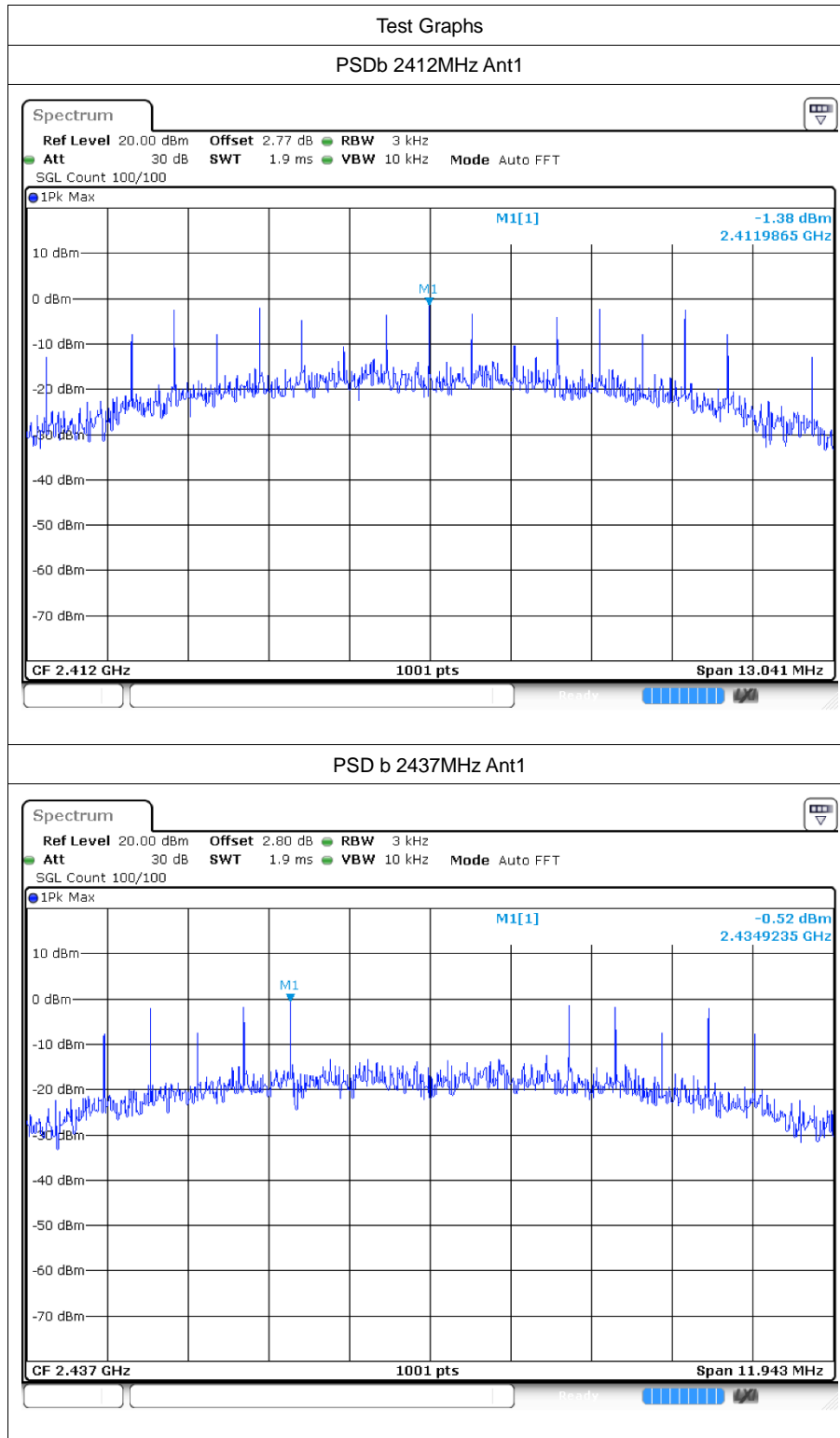


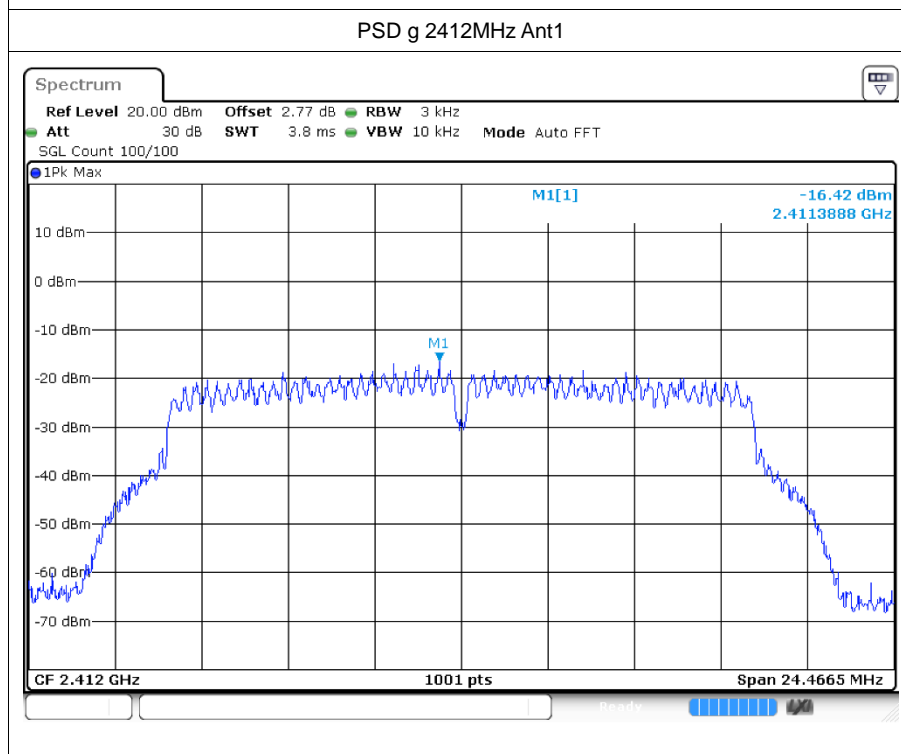
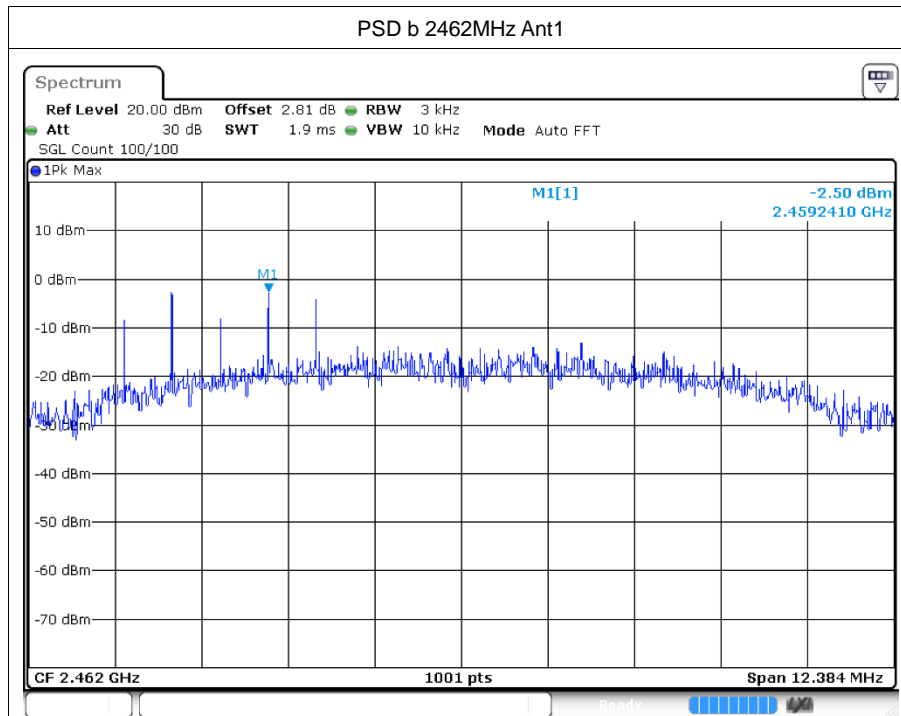
4 Maximum Power Spectral Density Level

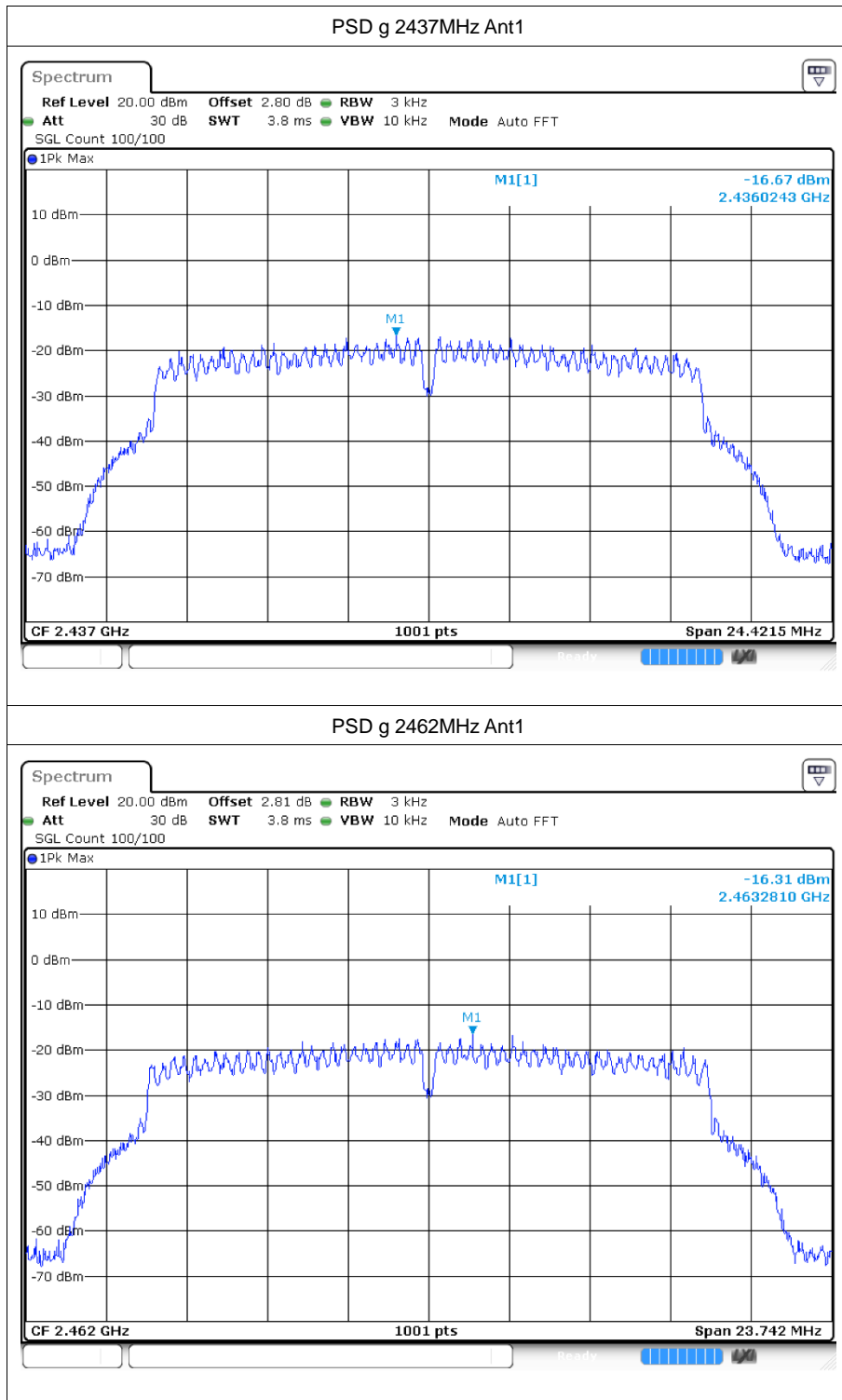
4.1 Test Result

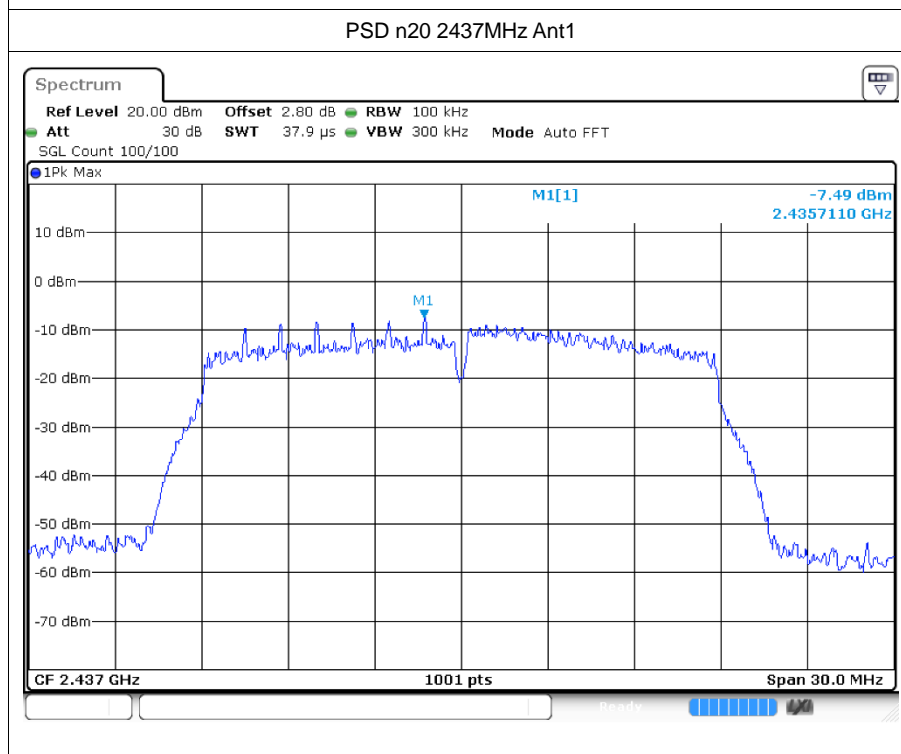
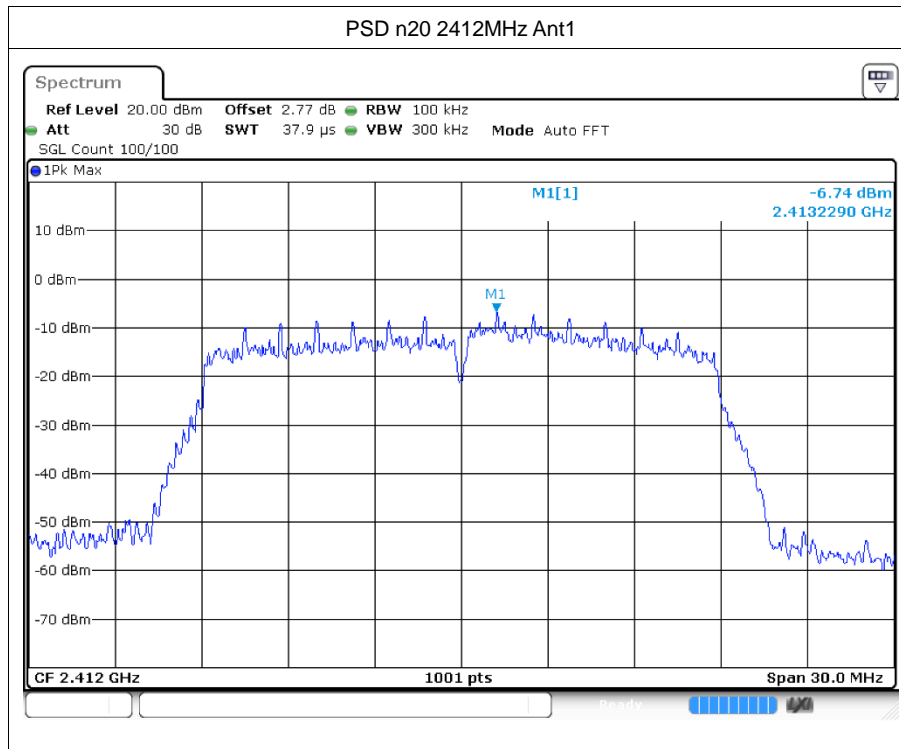
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
b	2412	Ant1	-1.38	≤8	Pass
b	2437	Ant1	-0.52	≤8	Pass
b	2462	Ant1	-2.5	≤8	Pass
g	2412	Ant1	-16.42	≤8	Pass
g	2437	Ant1	-16.67	≤8	Pass
g	2462	Ant1	-16.31	≤8	Pass
n20	2412	Ant1	-6.74	≤8	Pass
n20	2437	Ant1	-7.49	≤8	Pass
n20	2462	Ant1	-6.98	≤8	Pass
n40	2422	Ant1	-11.51	≤8	Pass
n40	2437	Ant1	-9.02	≤8	Pass
n40	2452	Ant1	-8.99	≤8	Pass
b	2412	Ant2	-3.33	≤8	Pass
b	2437	Ant2	-0.71	≤8	Pass
b	2462	Ant2	-4.76	≤8	Pass
g	2412	Ant2	-16.59	≤8	Pass
g	2437	Ant2	-17.06	≤8	Pass
g	2462	Ant2	-17.36	≤8	Pass
n20	2412	Ant2	-8.06	≤8	Pass
n20	2437	Ant2	-8.24	≤8	Pass
n20	2462	Ant2	-22.75	≤8	Pass
n40	2422	Ant2	-10.26	≤8	Pass
n40	2437	Ant2	-10.52	≤8	Pass
n40	2452	Ant2	-12.56	≤8	Pass

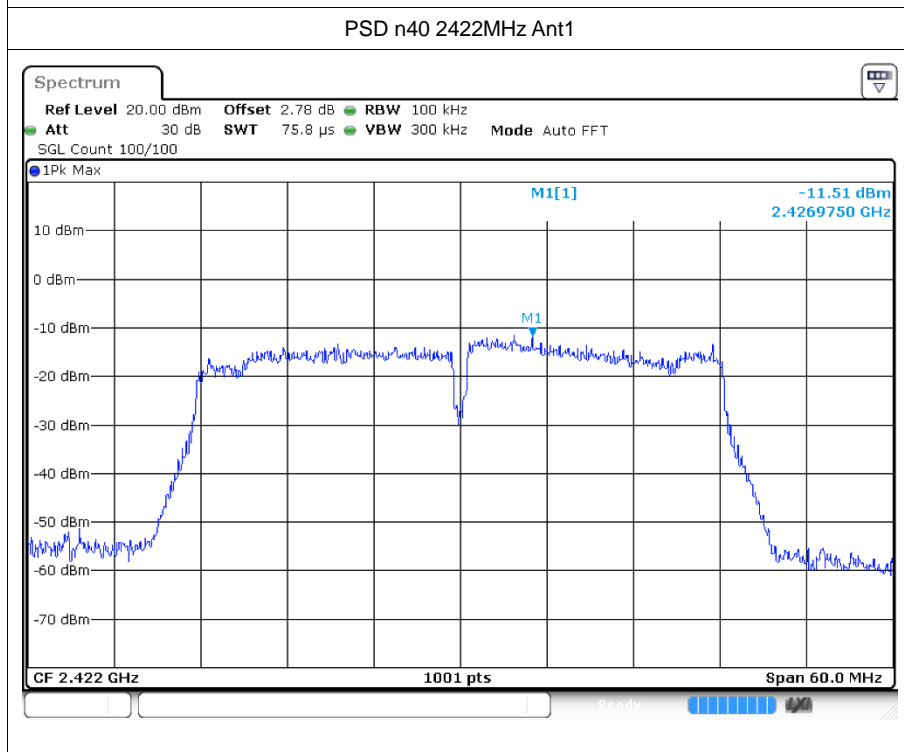
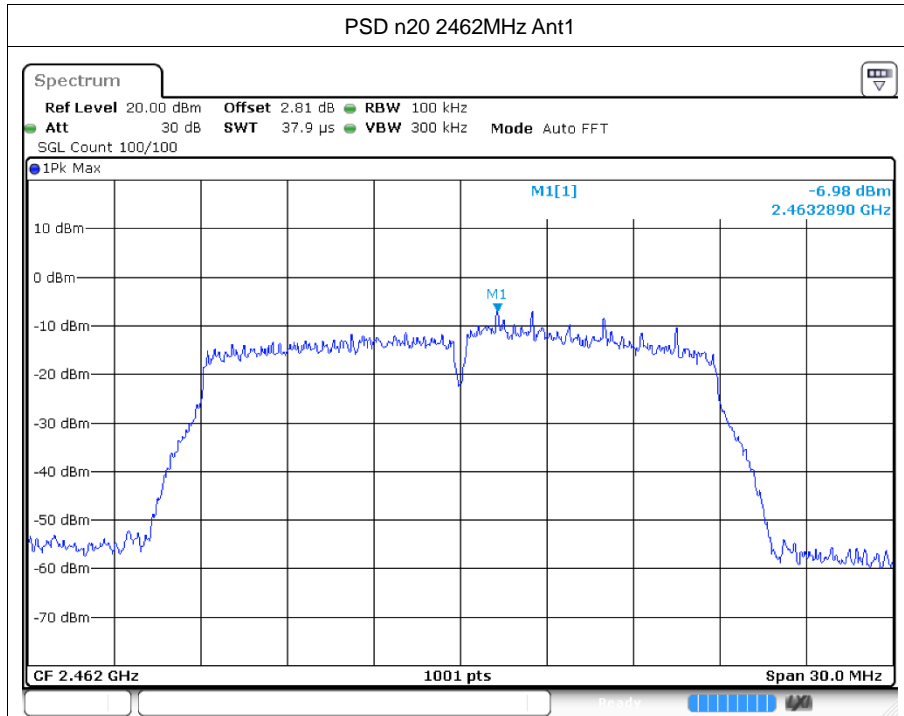
4.2 Test Graphs

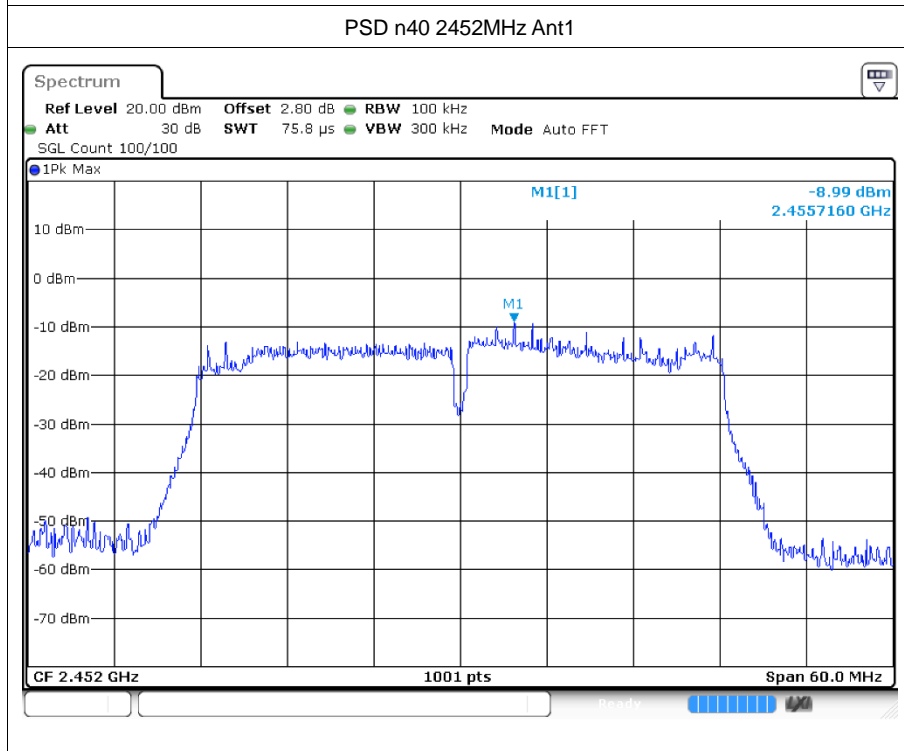
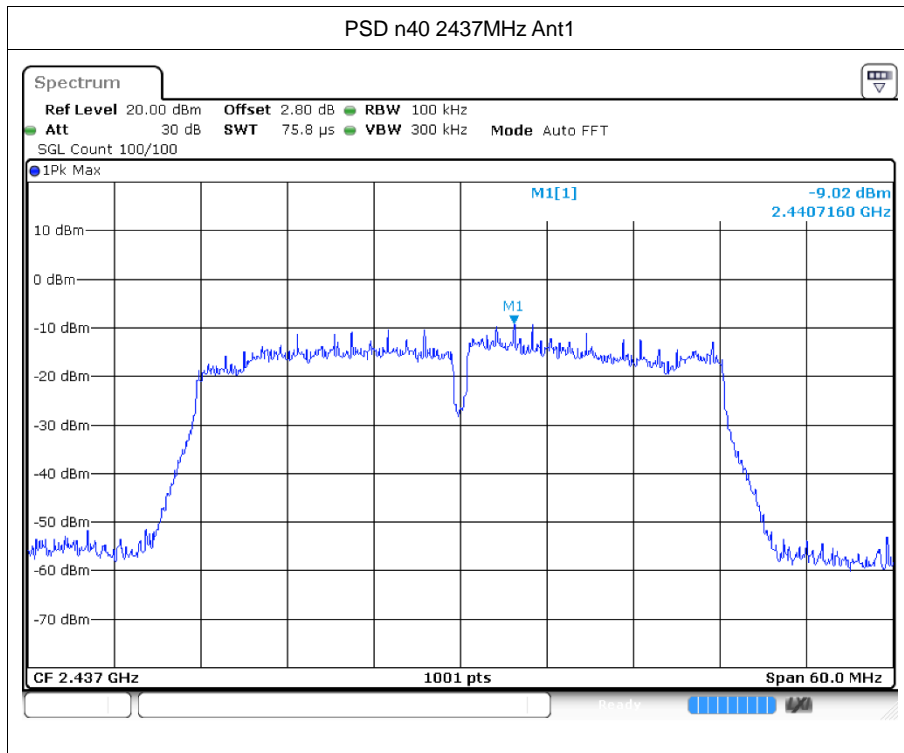












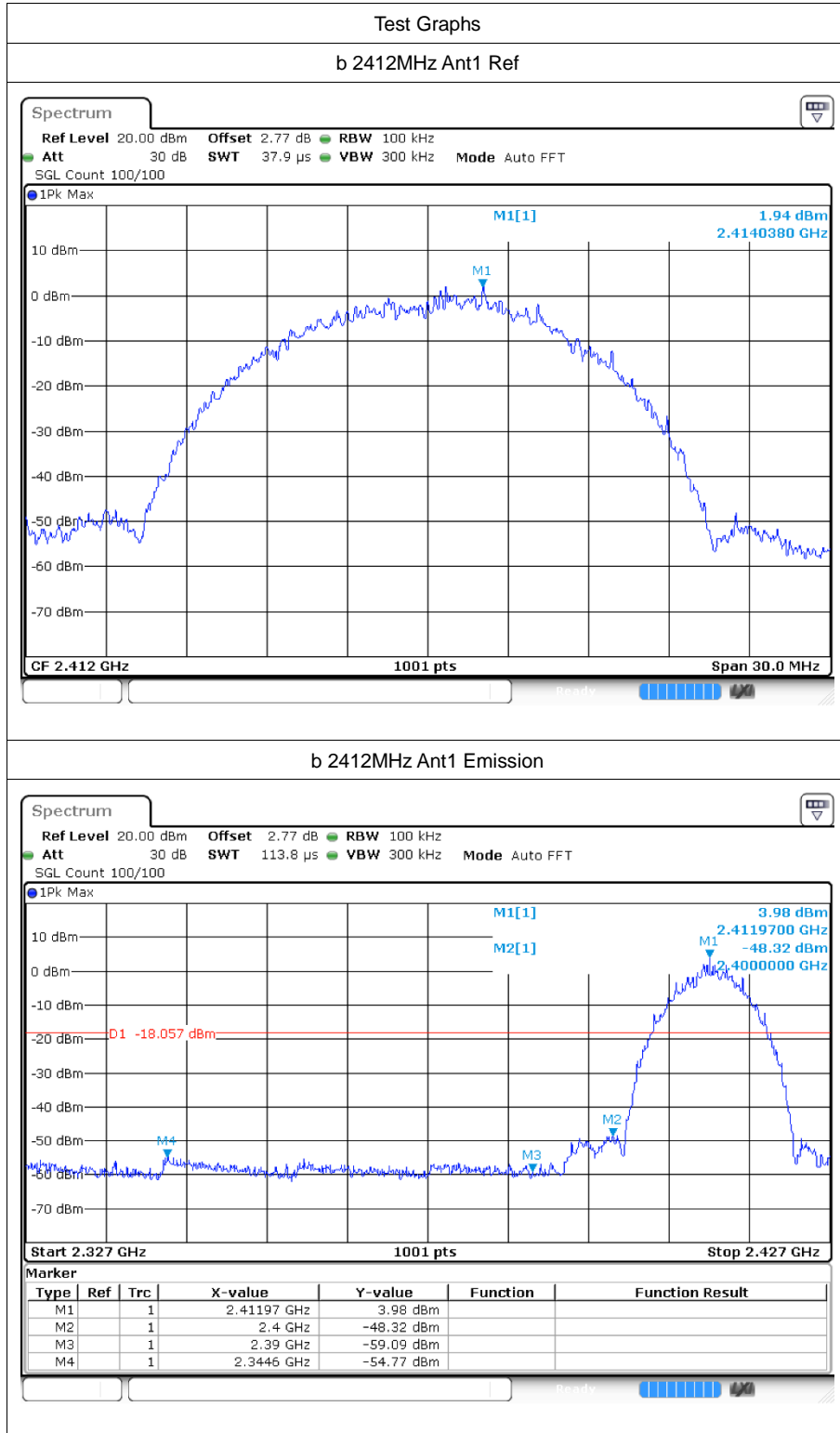


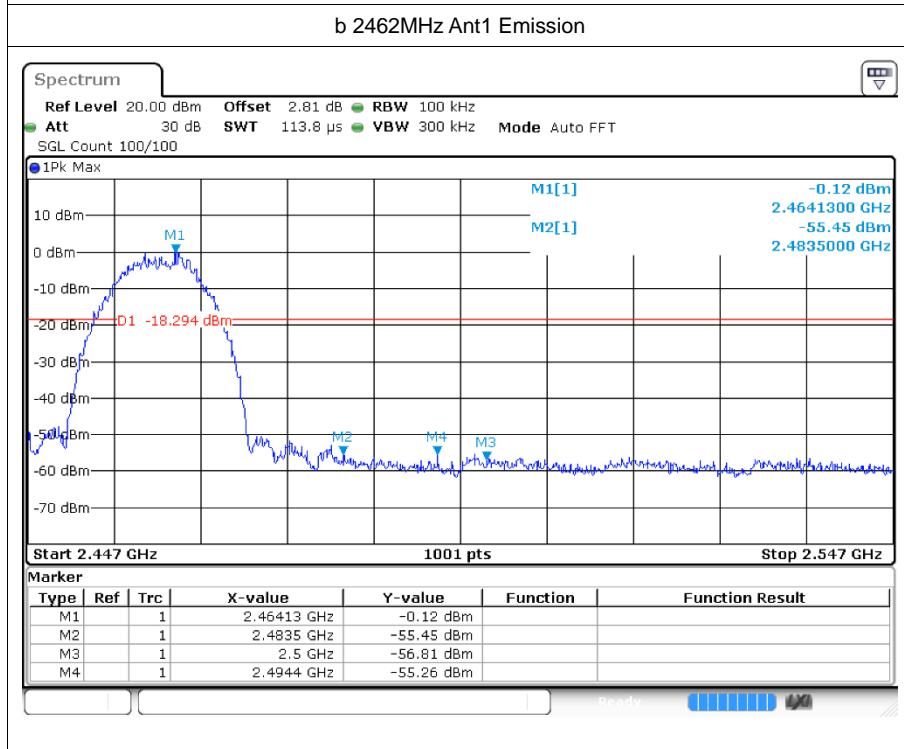
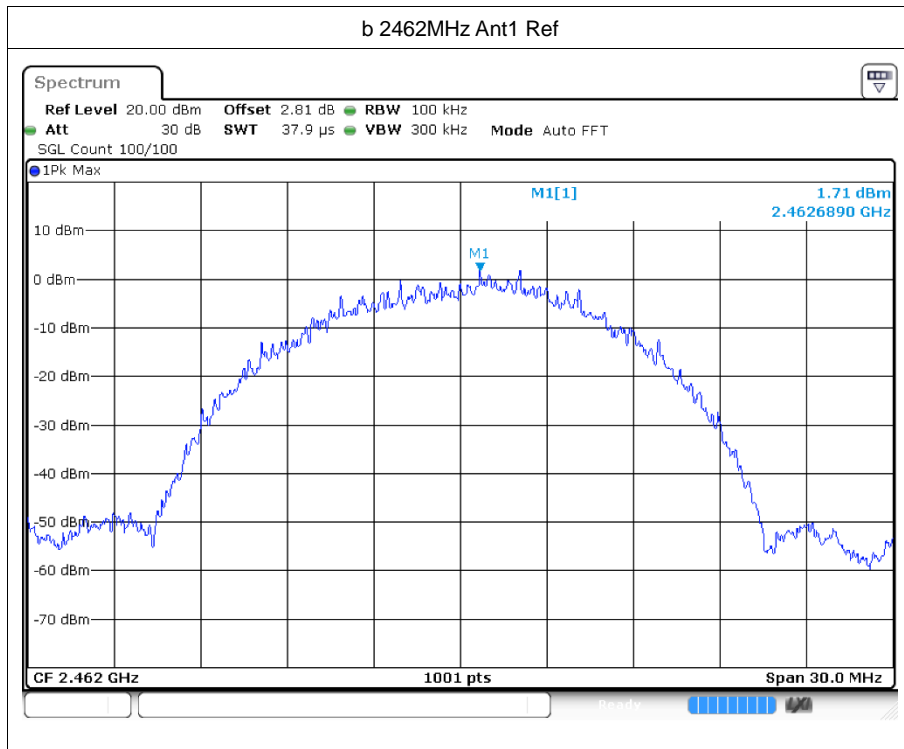
5 Band Edge

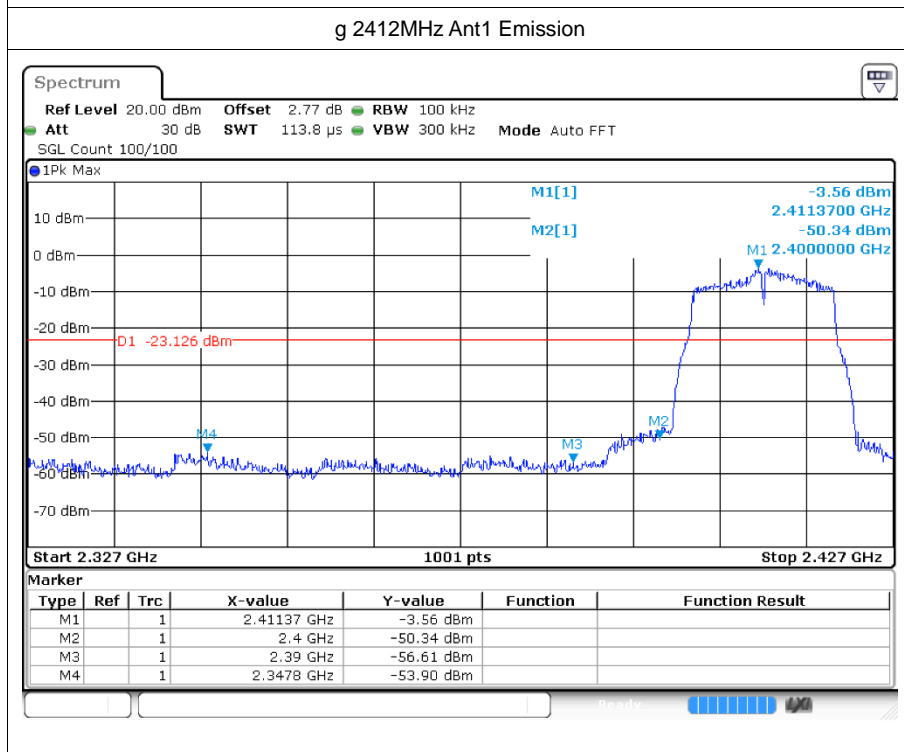
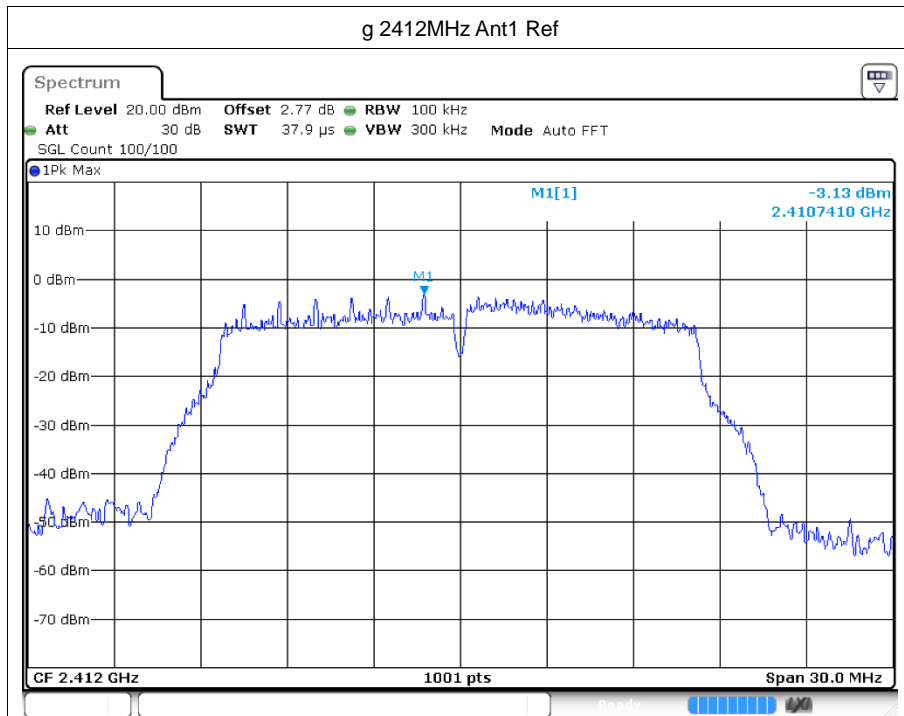
5.1 Test Result

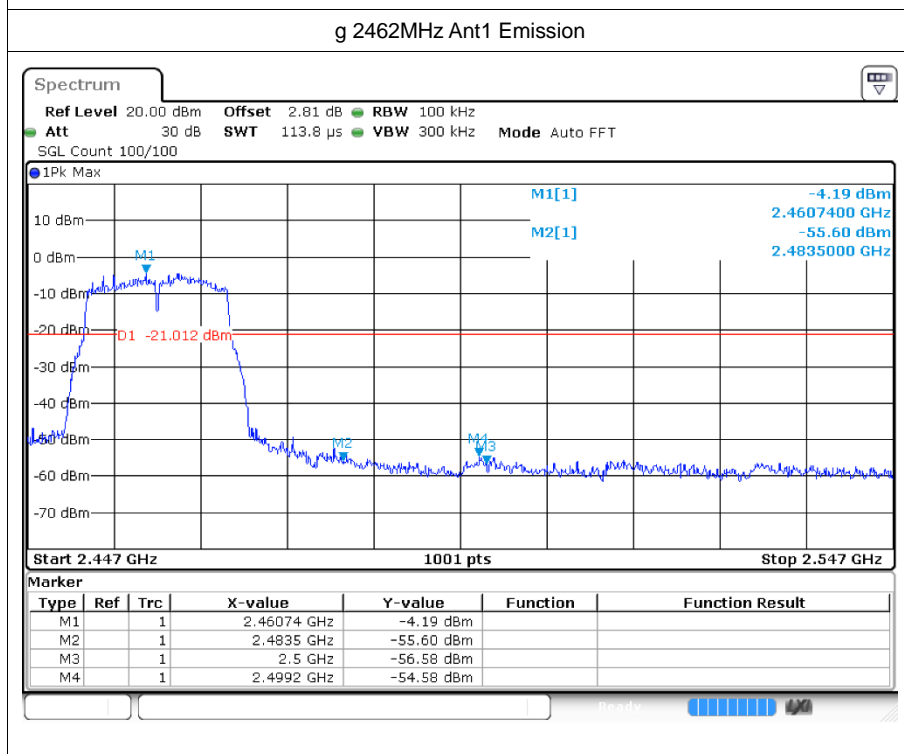
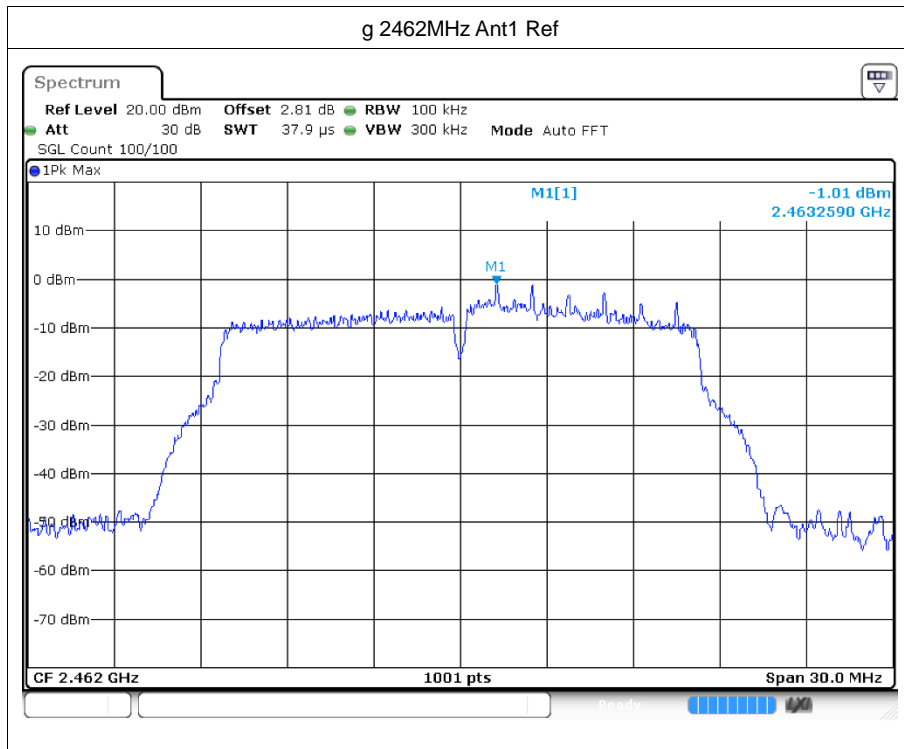
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-56.7	-20	-56.7
b	2462	Ant1	-56.97	-20	Pass
g	2412	Ant1	-50.76	-20	Pass
g	2462	Ant1	-53.57	-20	Pass
n20	2412	Ant1	-45.53	-20	Pass
n20	2462	Ant1	-49.11	-20	Pass
n40	2422	Ant1	-44.51	-20	Pass
n40	2452	Ant1	-46.51	-20	Pass
b	2412	Ant2	-52.95	-20	-52.95
b	2462	Ant2	-56.28	-20	Pass
g	2412	Ant2	-49.9	-20	Pass
g	2462	Ant2	-50.71	-20	Pass
n20	2412	Ant2	-46.13	-20	Pass
n20	2462	Ant2	-47.61	-20	Pass
n40	2422	Ant2	-41.82	-20	Pass
n40	2452	Ant2	-45.35	-20	Pass

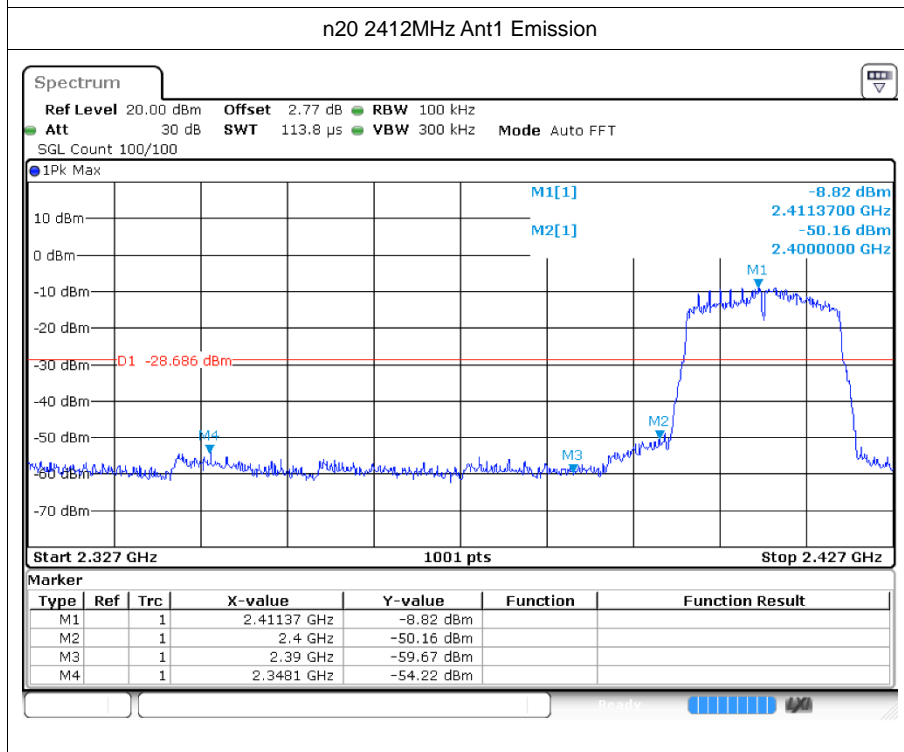
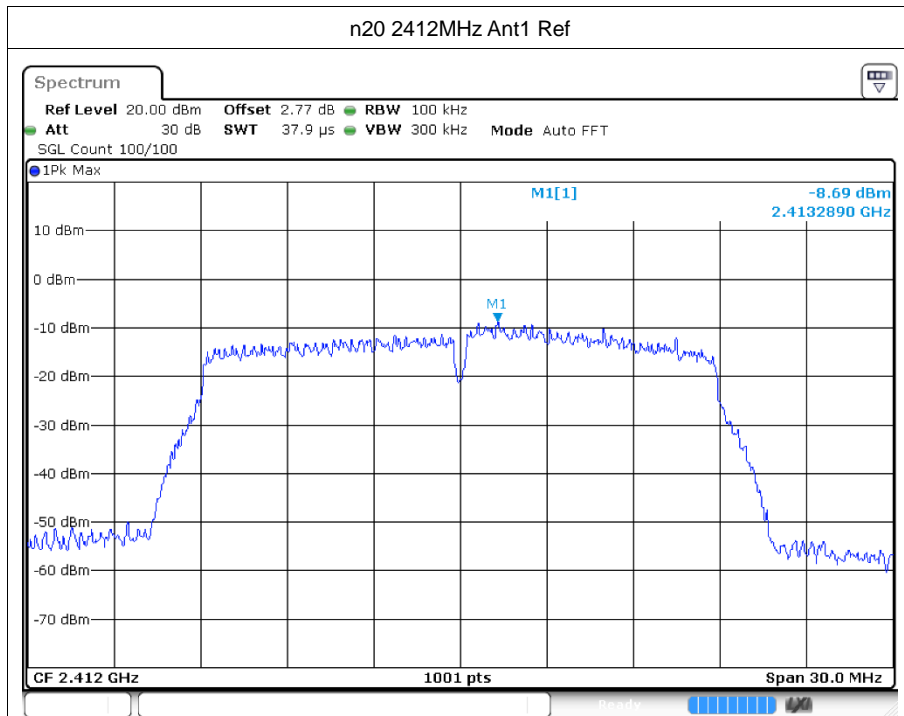
5.2 Test Graphs

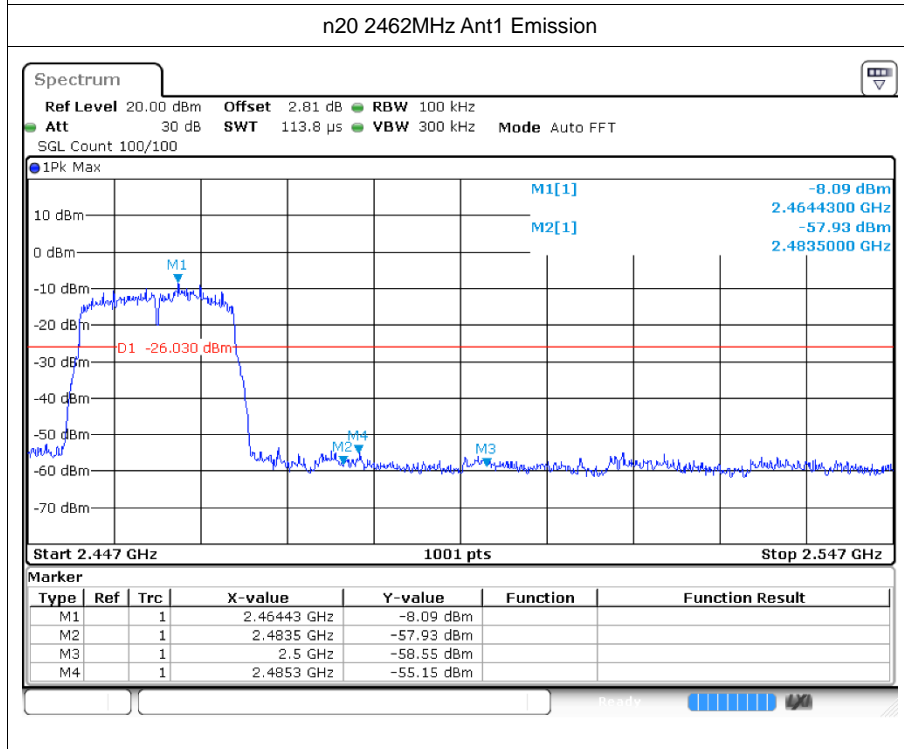
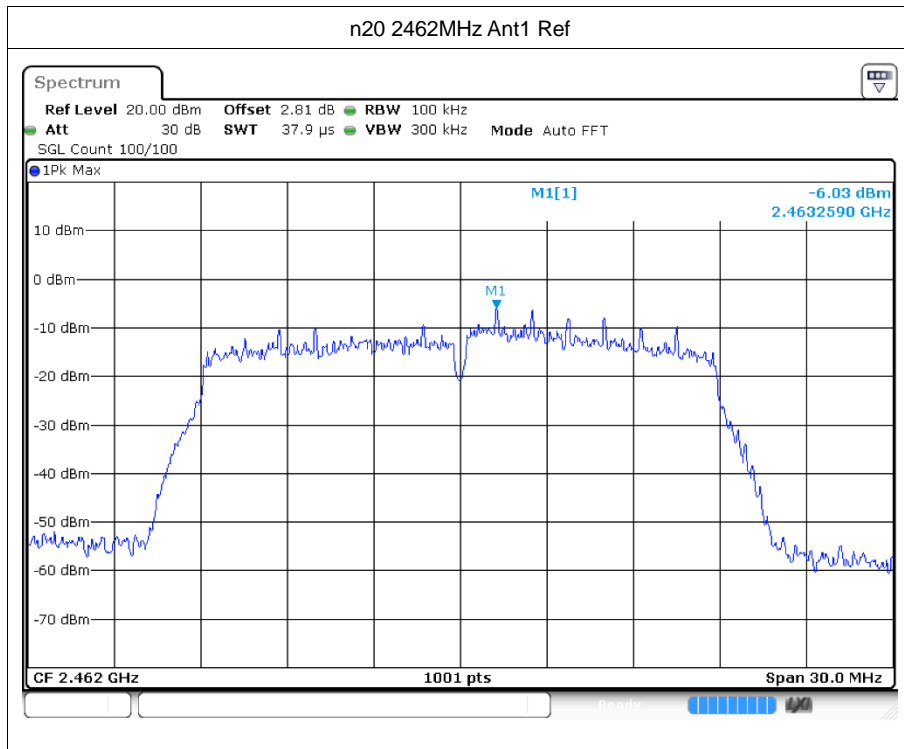


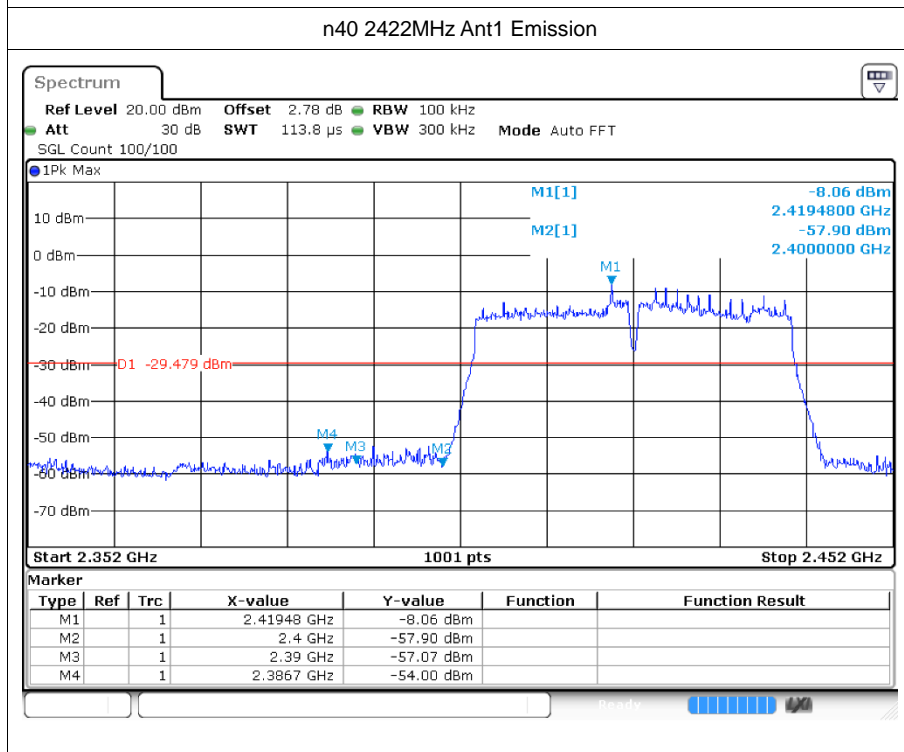
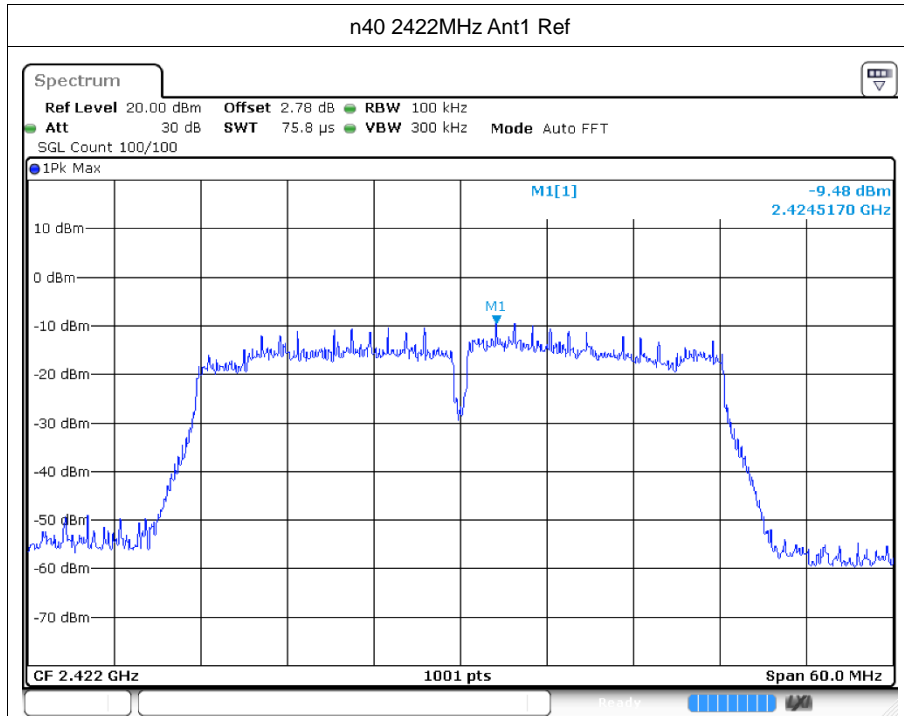


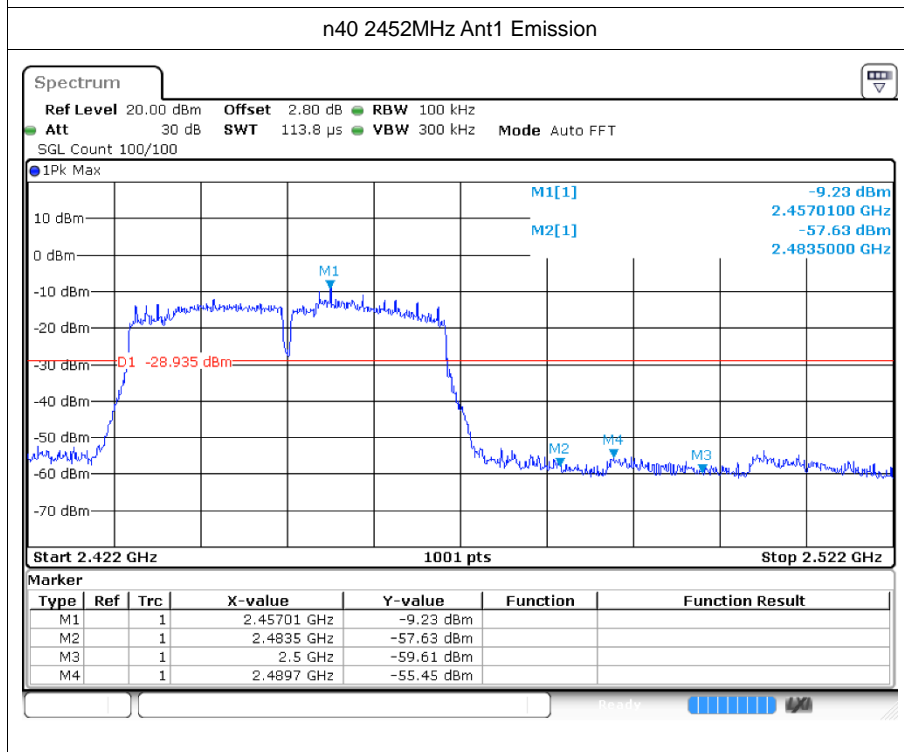
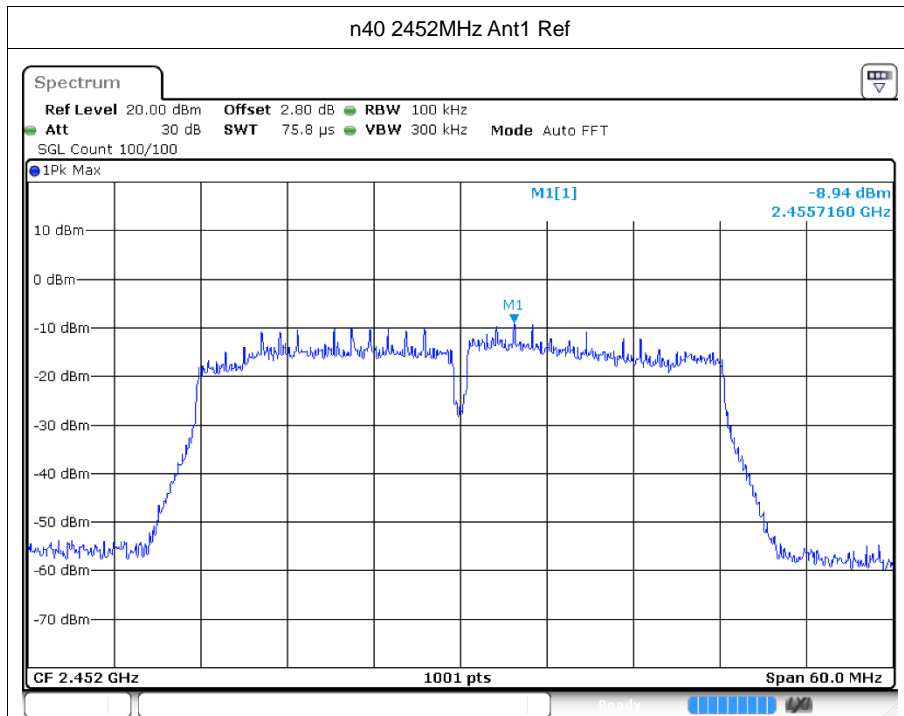


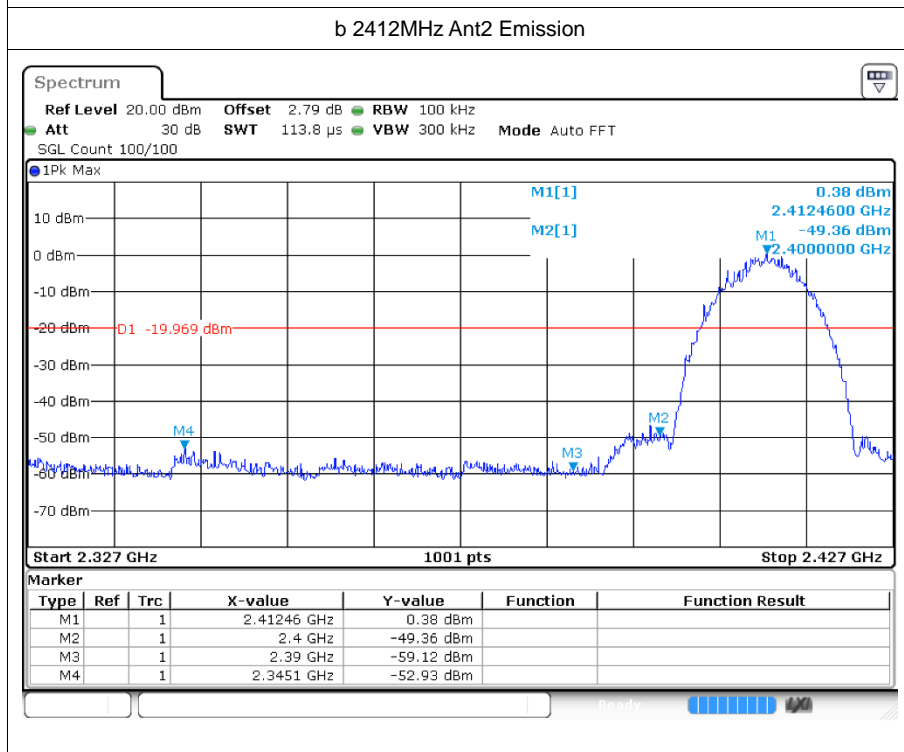
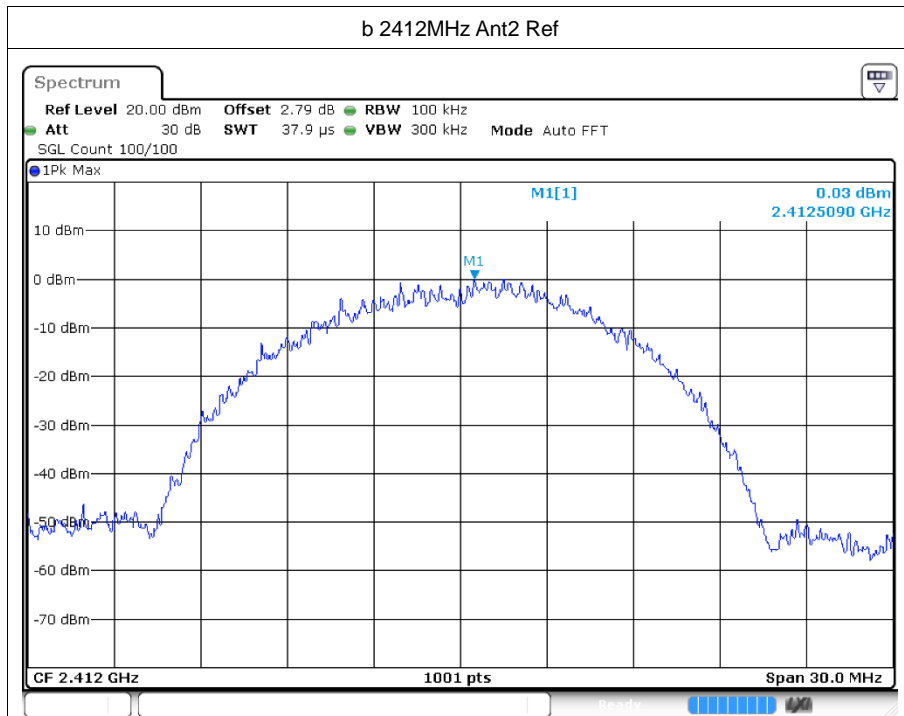


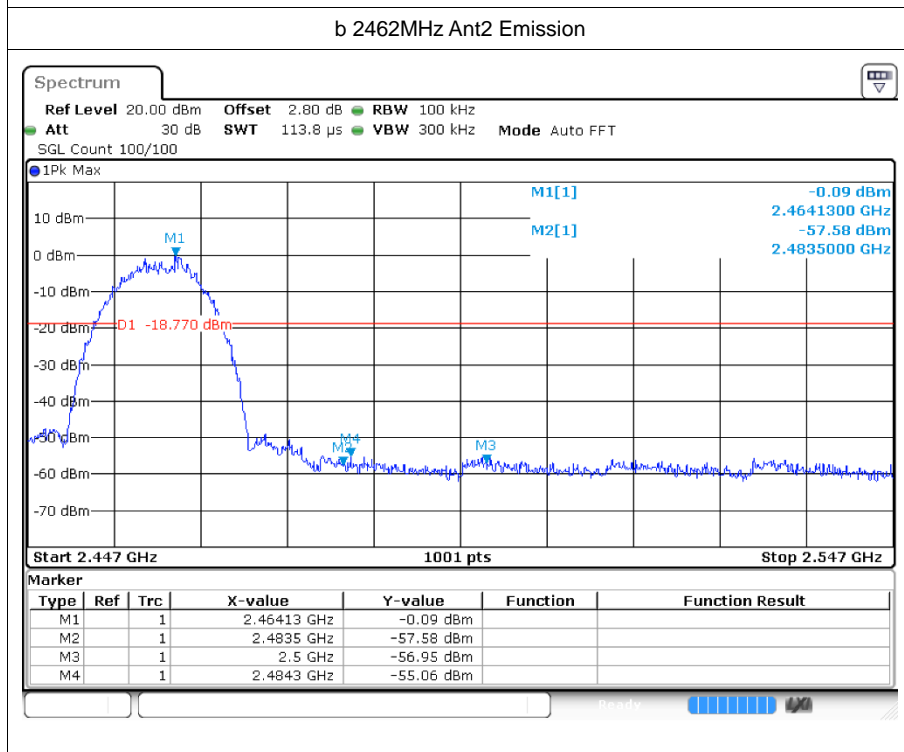
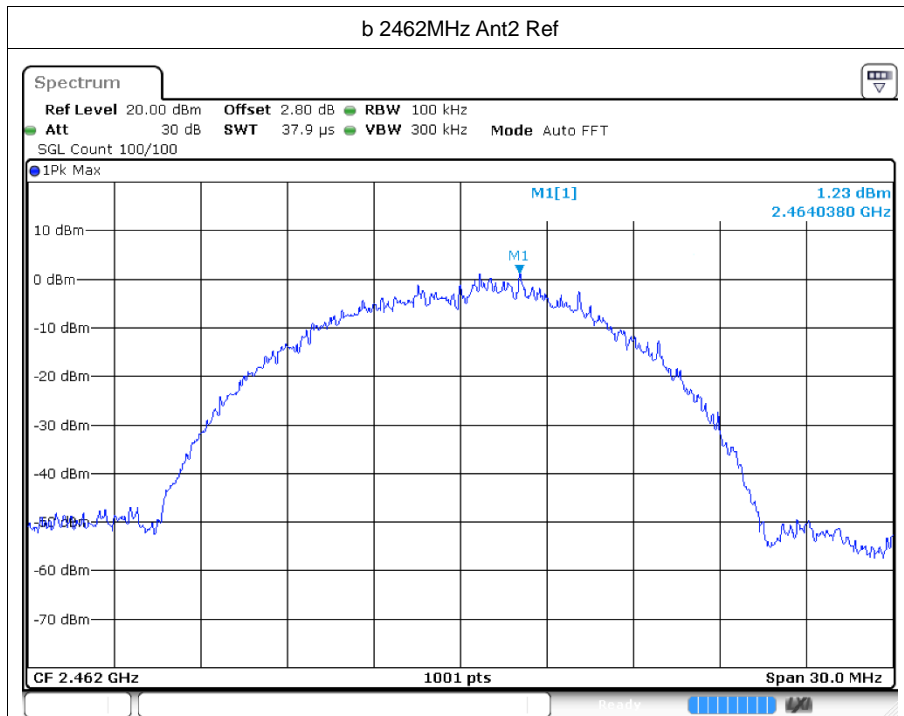


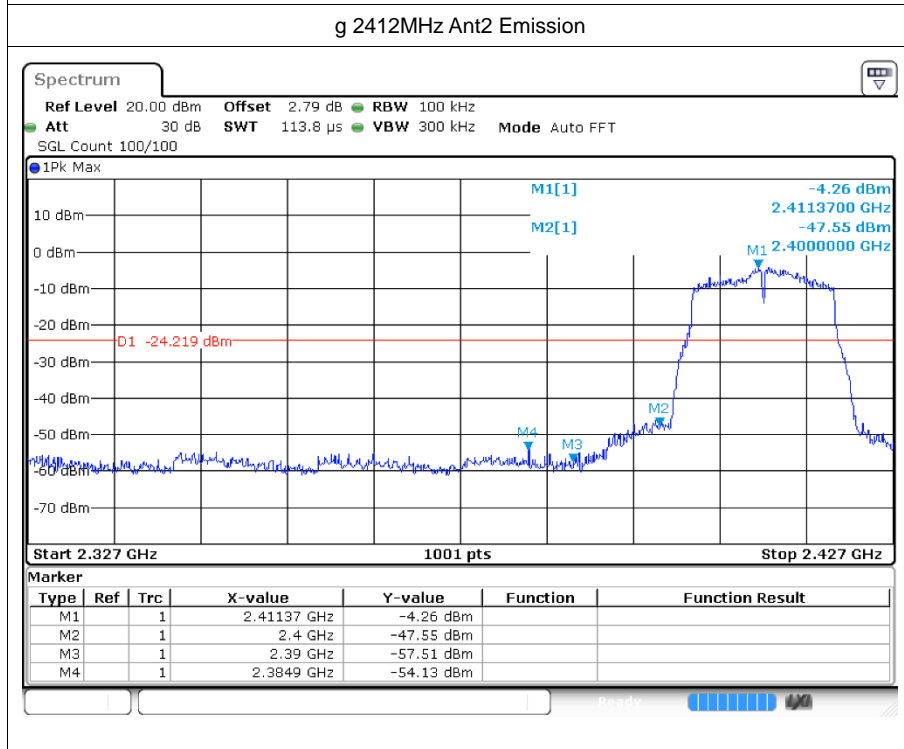
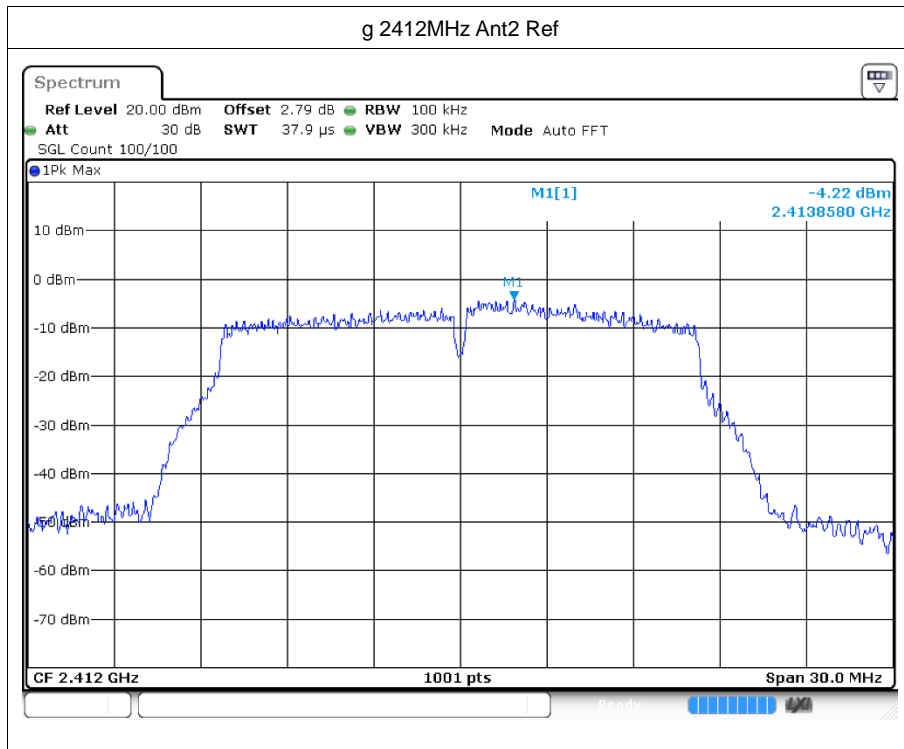


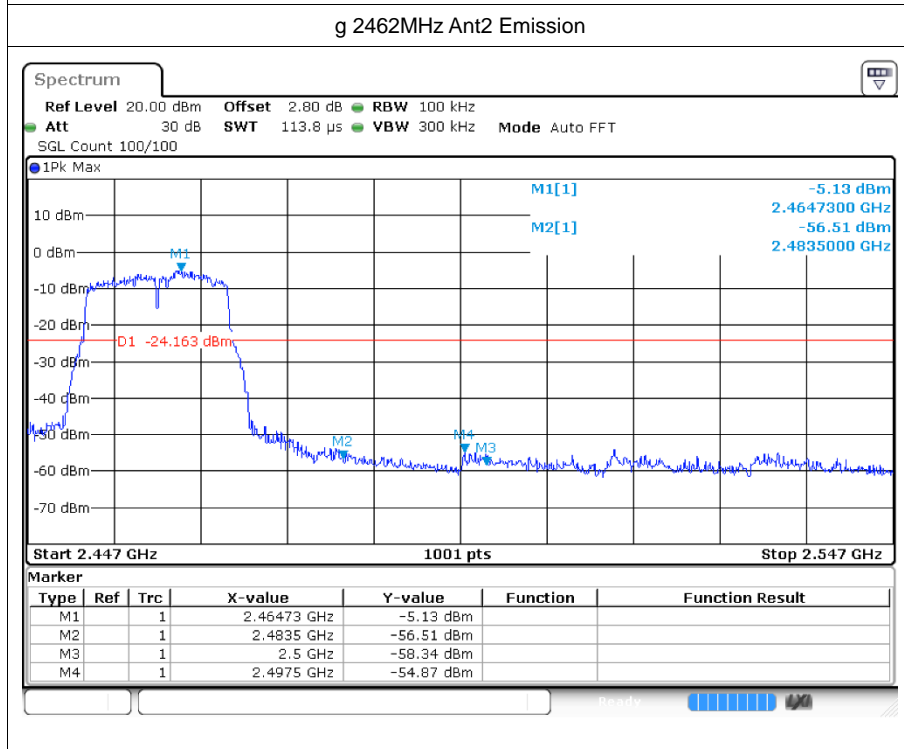
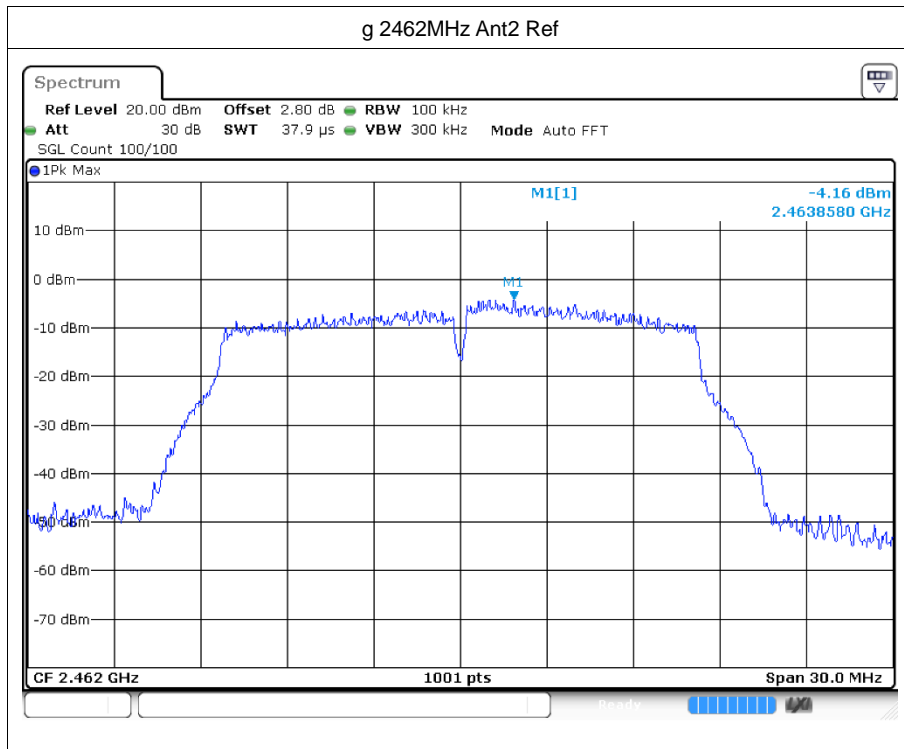


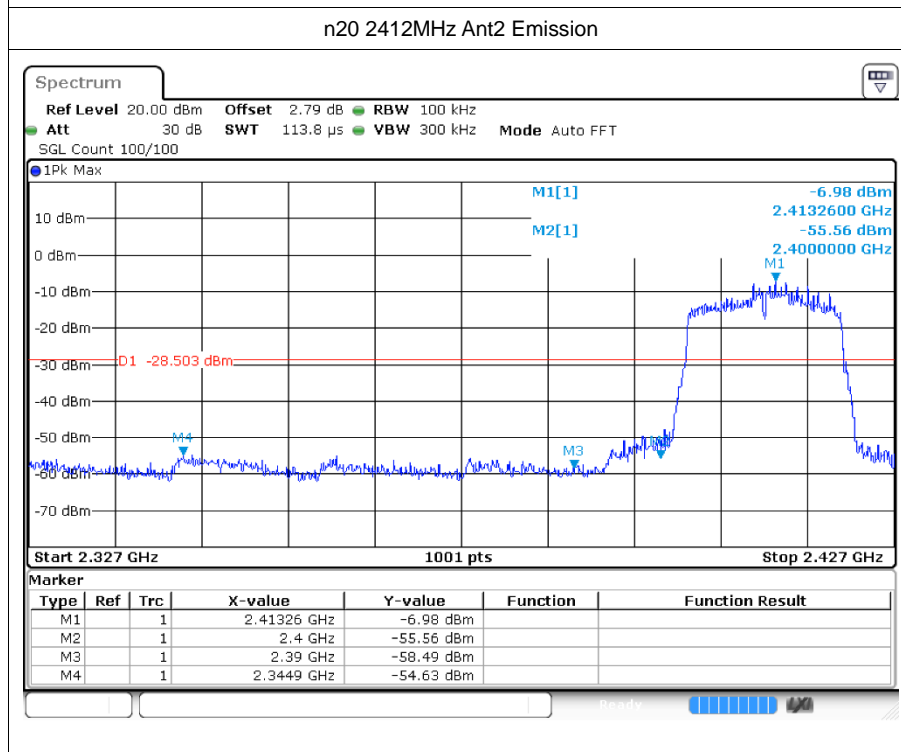
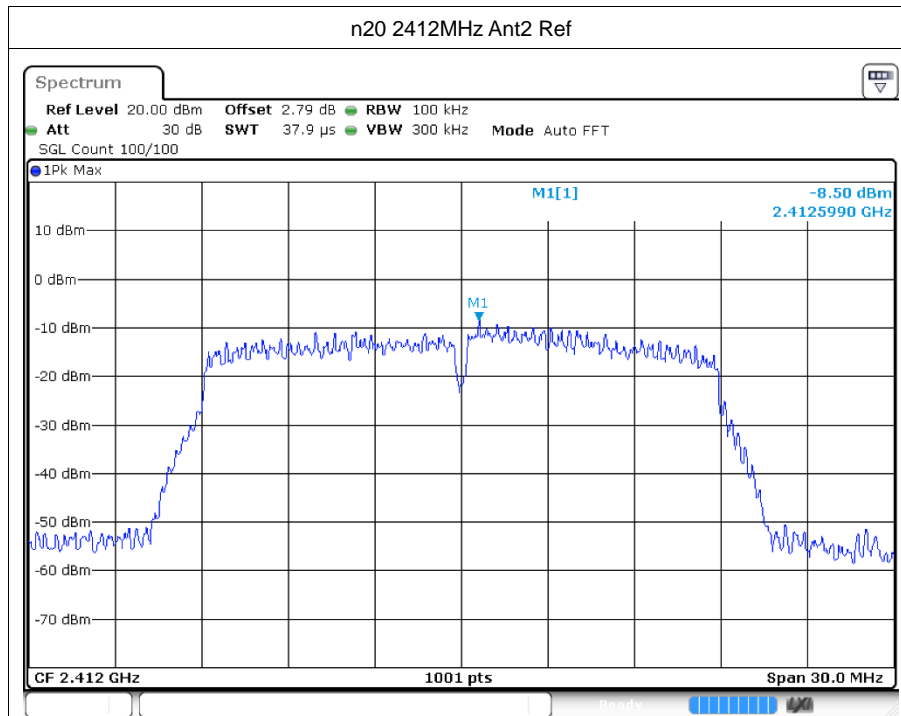


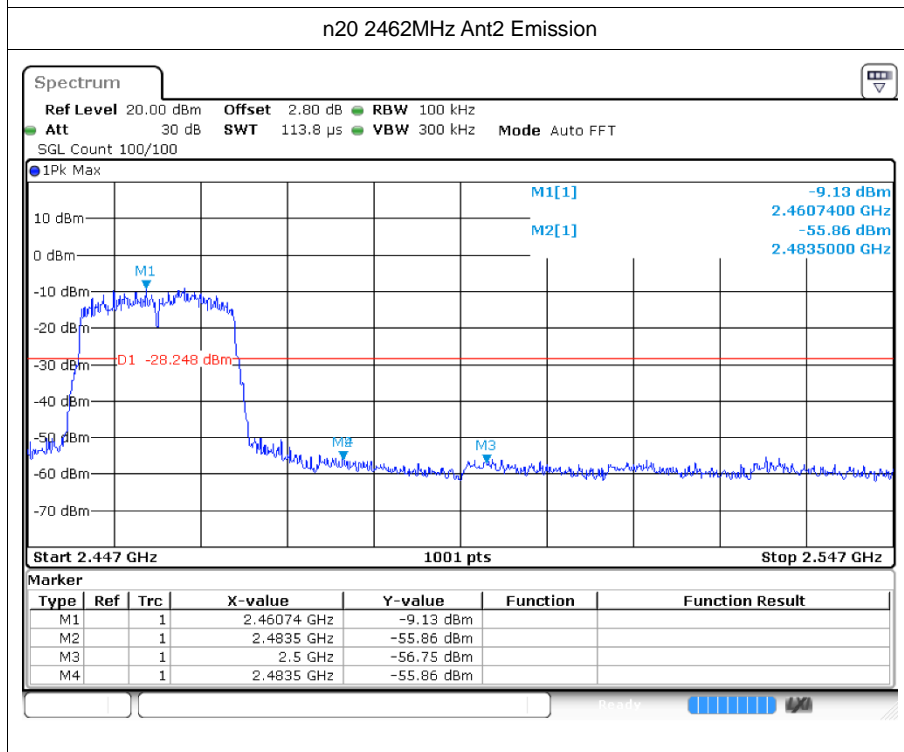
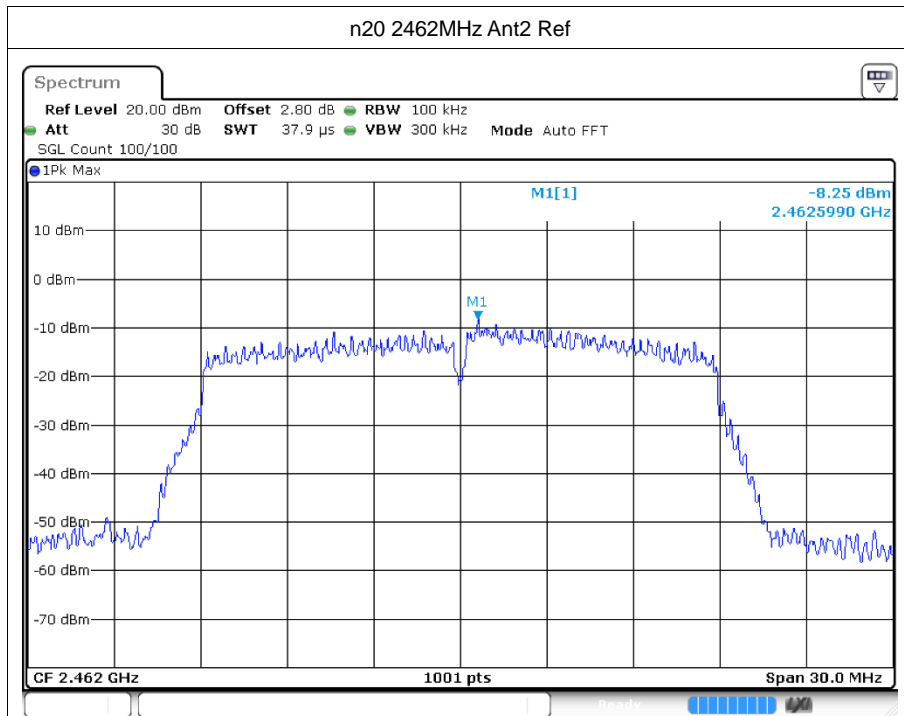


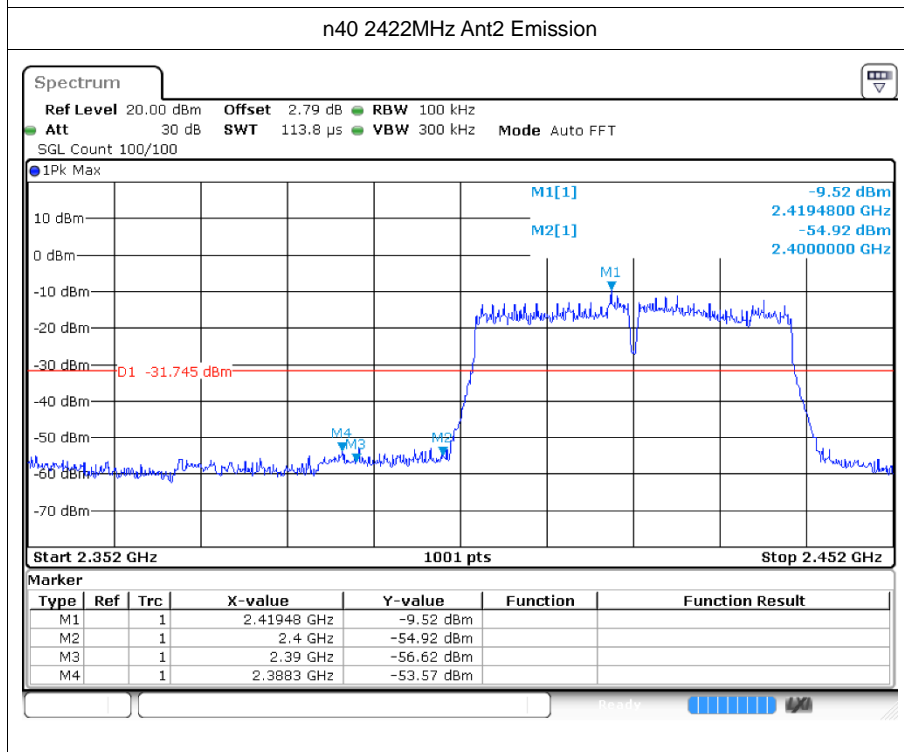
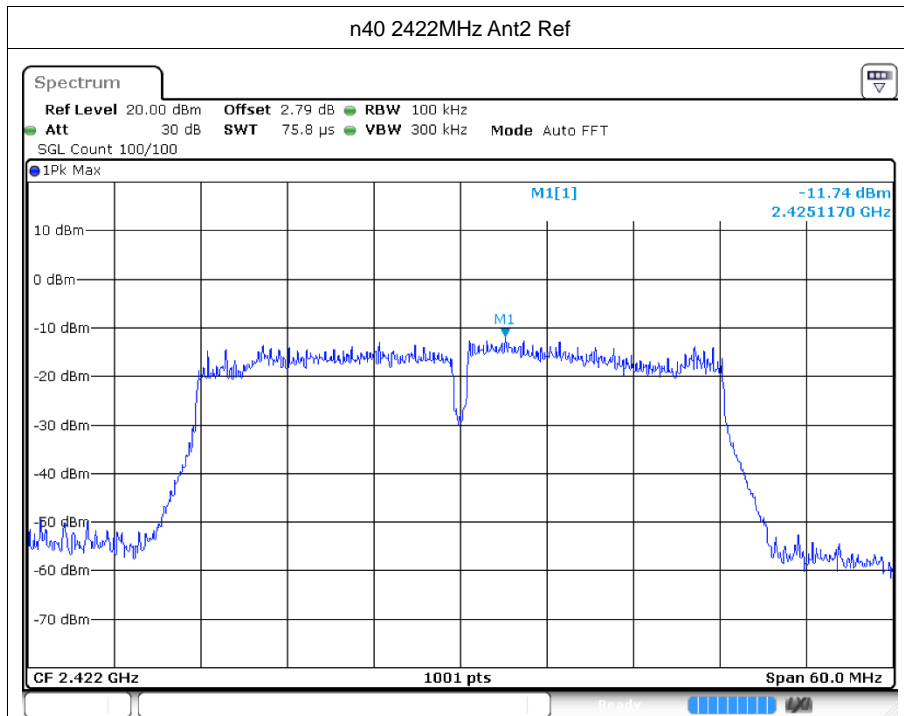


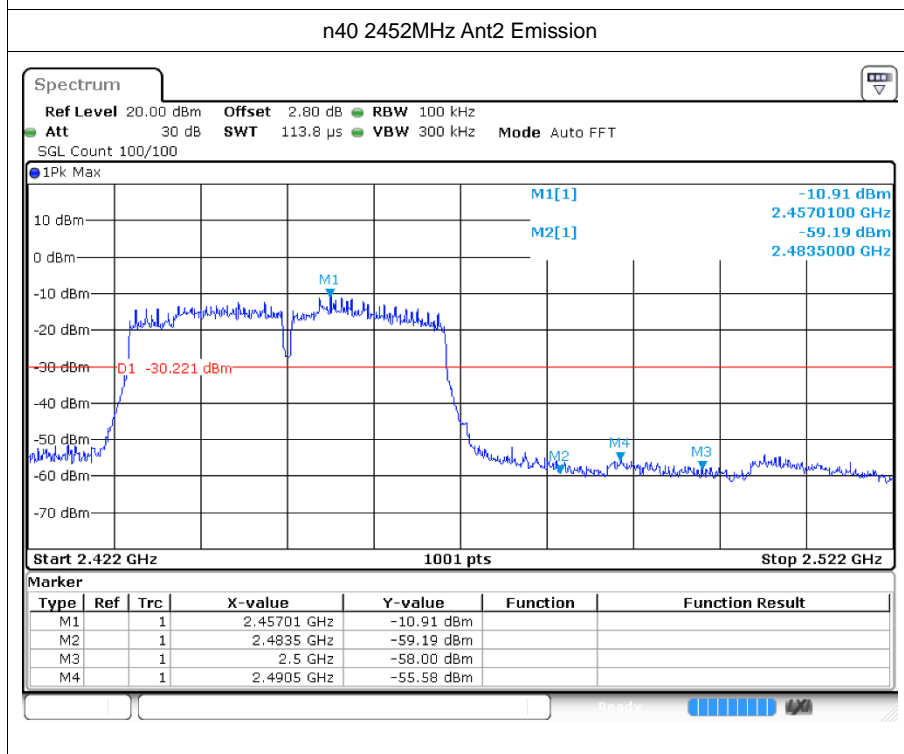
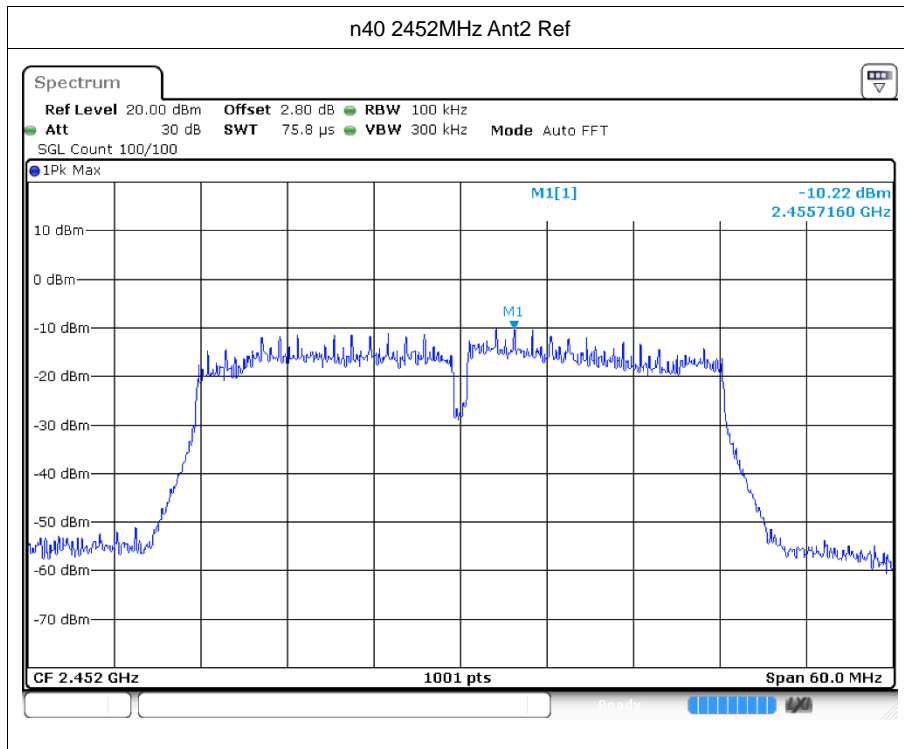














6 Conducted RF Spurious Emission

6.1 Test Result

Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-48.18	-20	Pass
b	2437	Ant1	-47.04	-20	Pass
b	2462	Ant1	-47.95	-20	Pass
g	2412	Ant1	-42.5	-20	Pass
g	2437	Ant1	-45.22	-20	Pass
g	2462	Ant1	-43.61	-20	Pass
n20	2412	Ant1	-37.36	-20	Pass
n20	2437	Ant1	-38.72	-20	Pass
n20	2462	Ant1	-37.26	-20	Pass
n40	2422	Ant1	-35.78	-20	Pass
n40	2437	Ant1	-37.13	-20	Pass
n40	2452	Ant1	-37.15	-20	Pass
b	2412	Ant2	-45.42	-20	Pass
b	2437	Ant2	-45.64	-20	Pass
b	2462	Ant2	-46	-20	Pass
g	2412	Ant2	-42.27	-20	Pass
g	2437	Ant2	-45.15	-20	Pass
g	2462	Ant2	-41.66	-20	Pass
n20	2412	Ant2	-38.32	-20	Pass
n20	2437	Ant2	-37.41	-20	Pass
n20	2462	Ant2	-38.74	-20	Pass
n40	2422	Ant2	-35.24	-20	Pass
n40	2437	Ant2	-34.55	-20	Pass
n40	2452	Ant2	-34.95	-20	Pass