

Appendix D

RF Test Data for 5GHz WIFI-B1 WIFI(Conducted Measurement)

FCC ID:2A7DX-A200PRO

Product Name: Smart phone

Test Model: A200 Pro

Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Simba Huang
Supervised by:	Seal Chen

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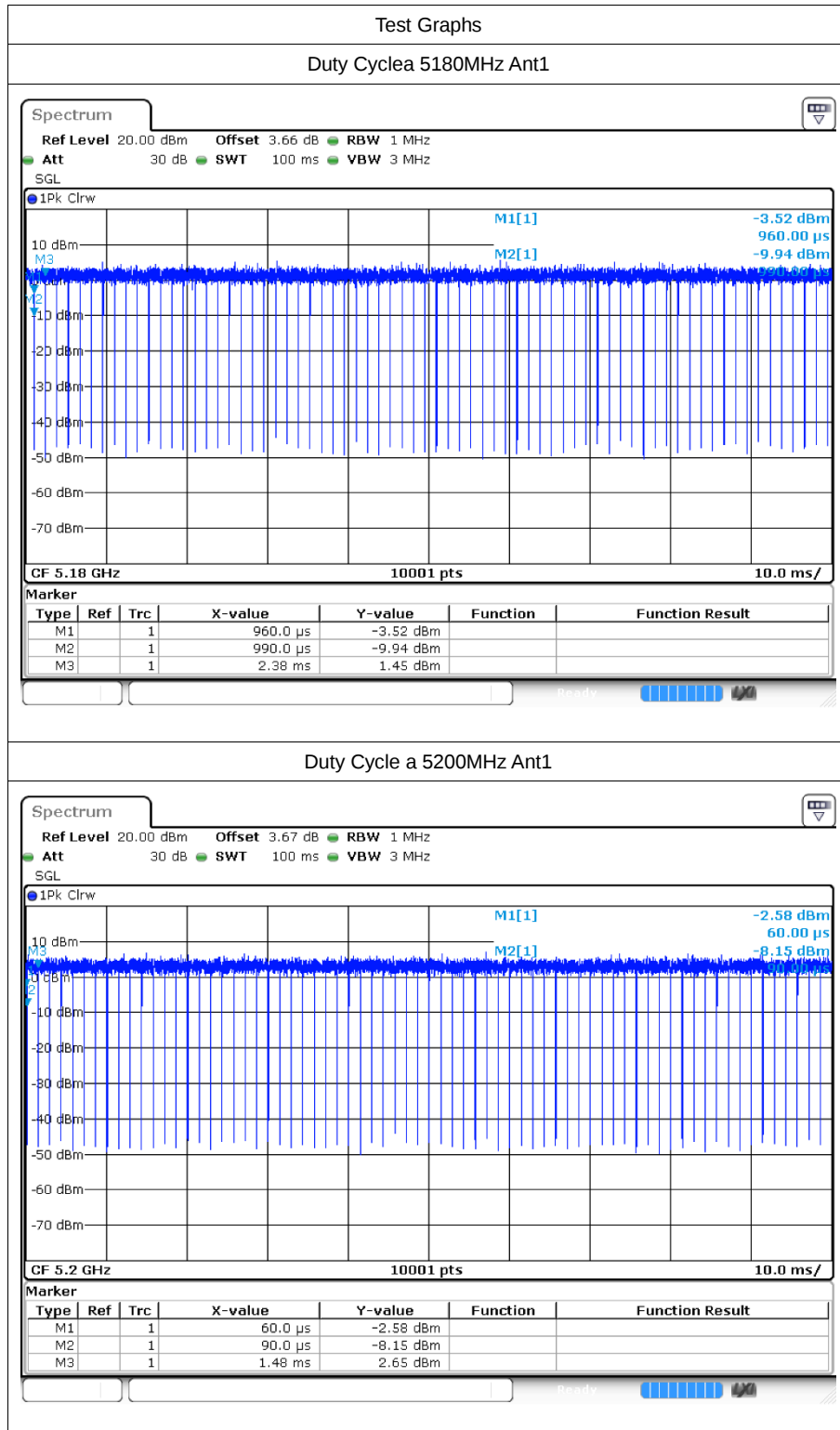
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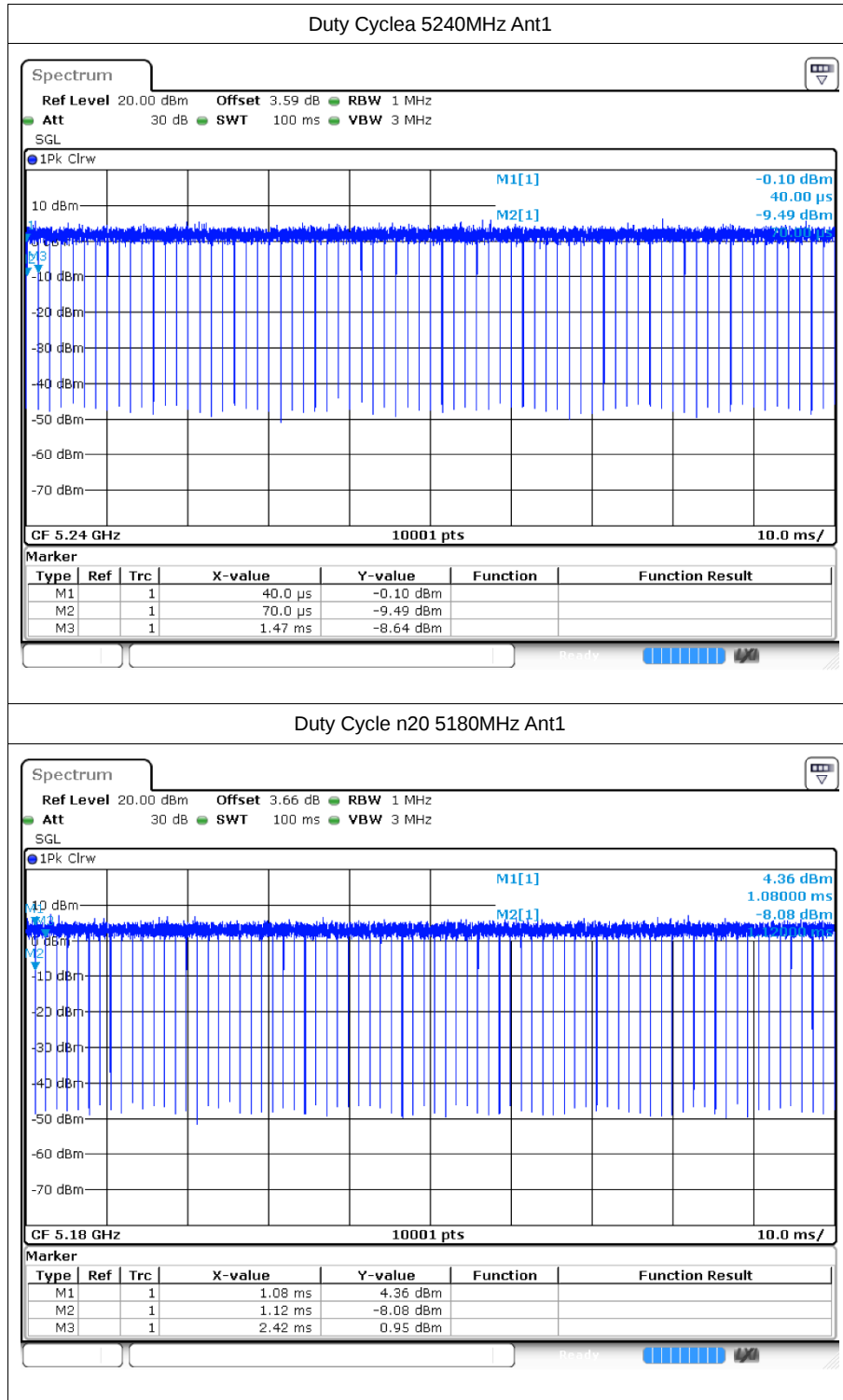
1 Duty Cycle

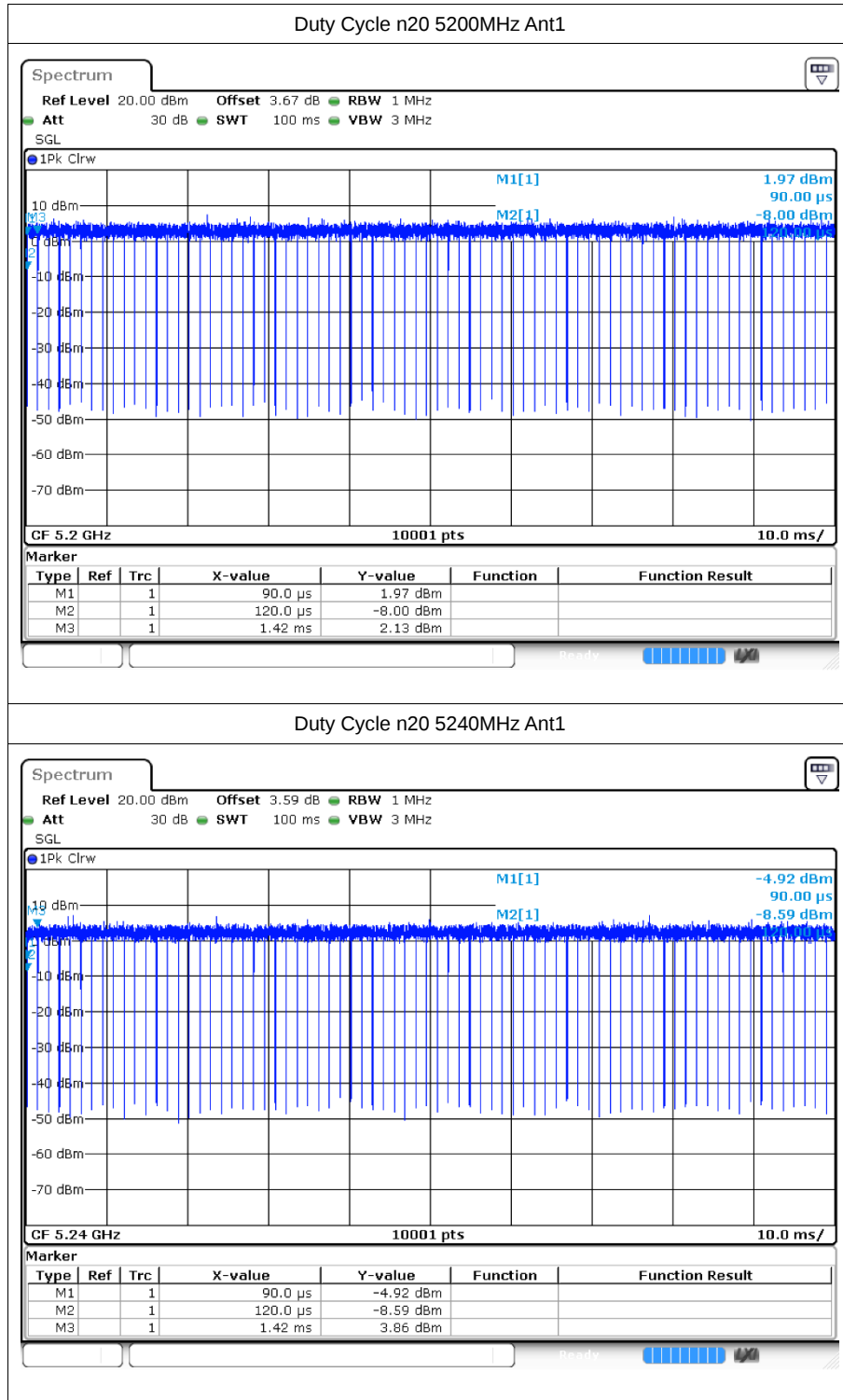
1.1 Test Result

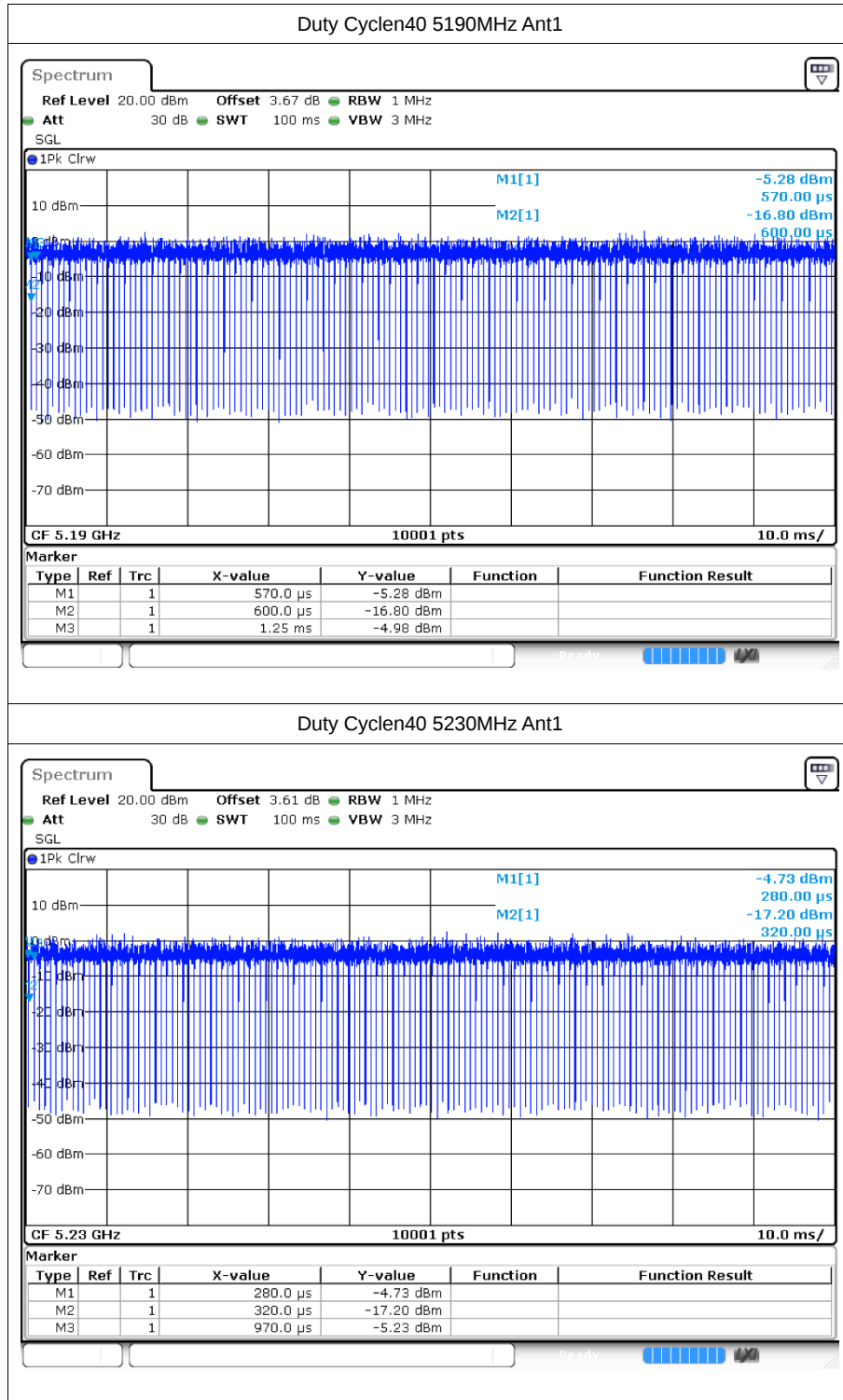
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
a	5180	Ant1	98.24	0.08	0.72
a	5200	Ant1	98.25	0.08	0.72
a	5240	Ant1	98.24	0.08	0.71
n20	5180	Ant1	98.12	0.08	0.77
n20	5200	Ant1	98.12	0.08	0.77
n20	5240	Ant1	98.13	0.08	0.77
n40	5190	Ant1	96.37	0.16	1.54
n40	5230	Ant1	96.49	0.16	1.54
ac20	5180	Ant1	98.13	0.08	0.76
ac20	5200	Ant1	98.18	0.08	0.76
ac20	5240	Ant1	98.14	0.08	0.76
ac40	5190	Ant1	96.45	0.16	1.52
ac40	5230	Ant1	96.38	0.16	1.54
ac80	5210	Ant1	93.28	0.3	3.03

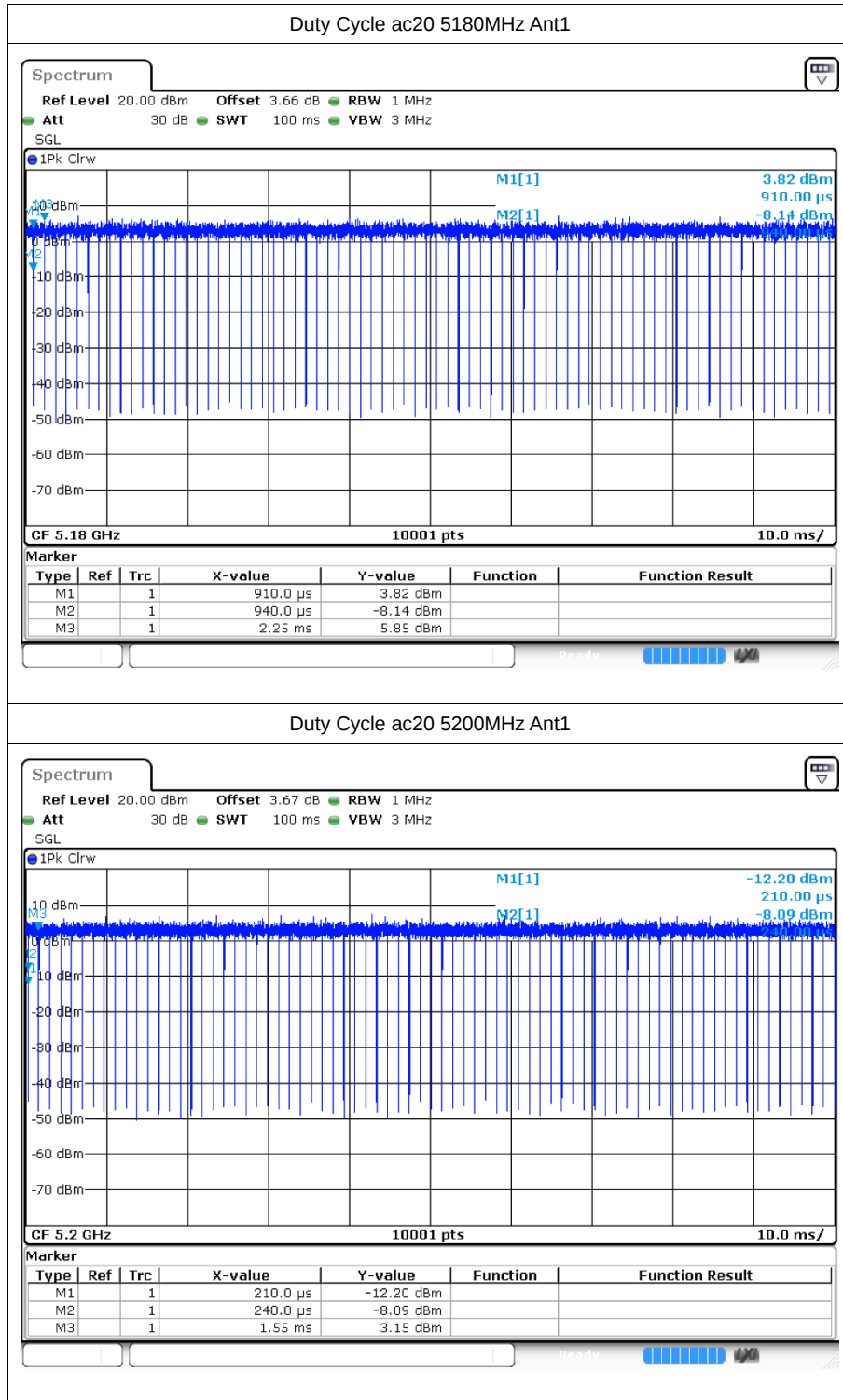
1.2 Test Graphs

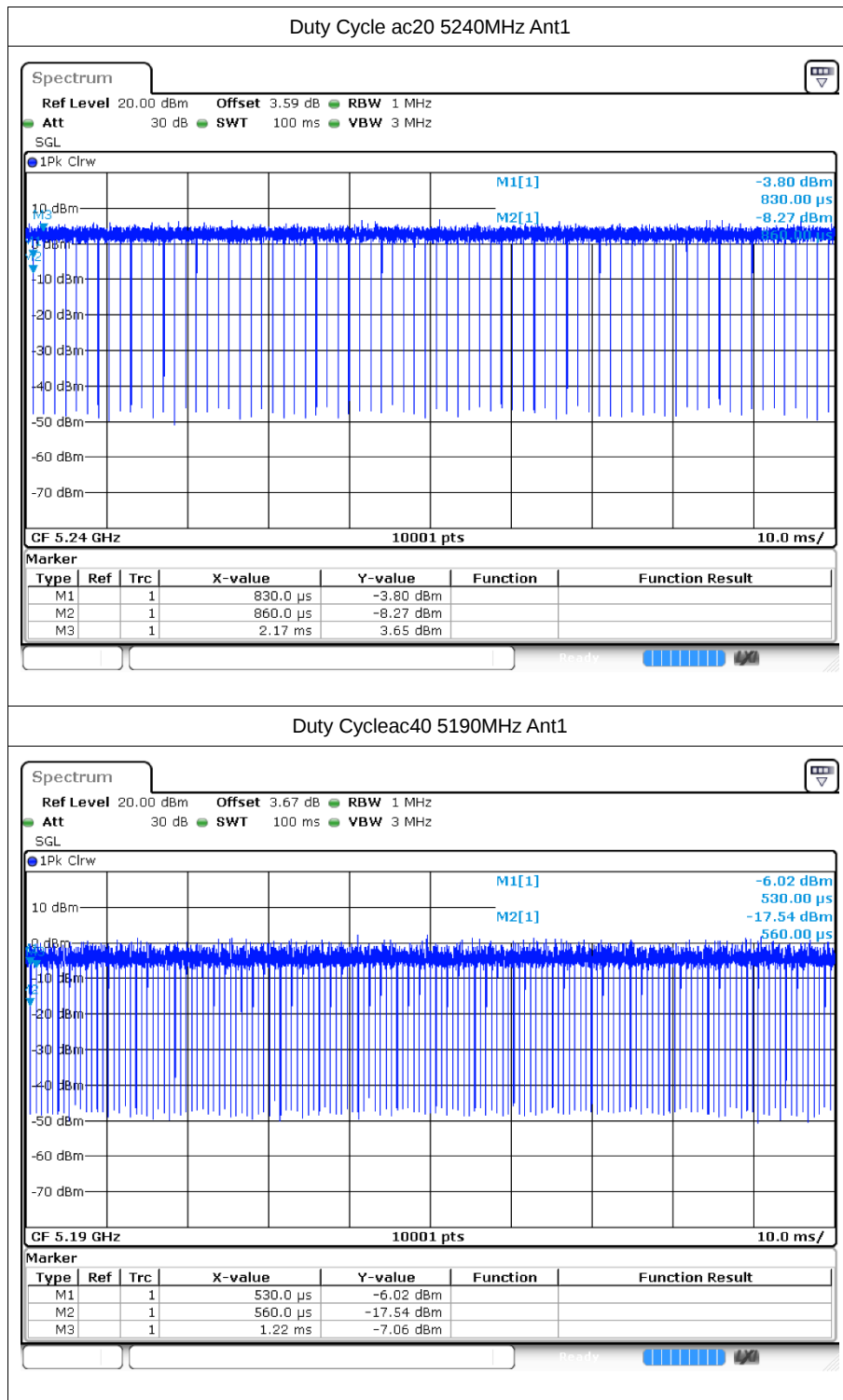


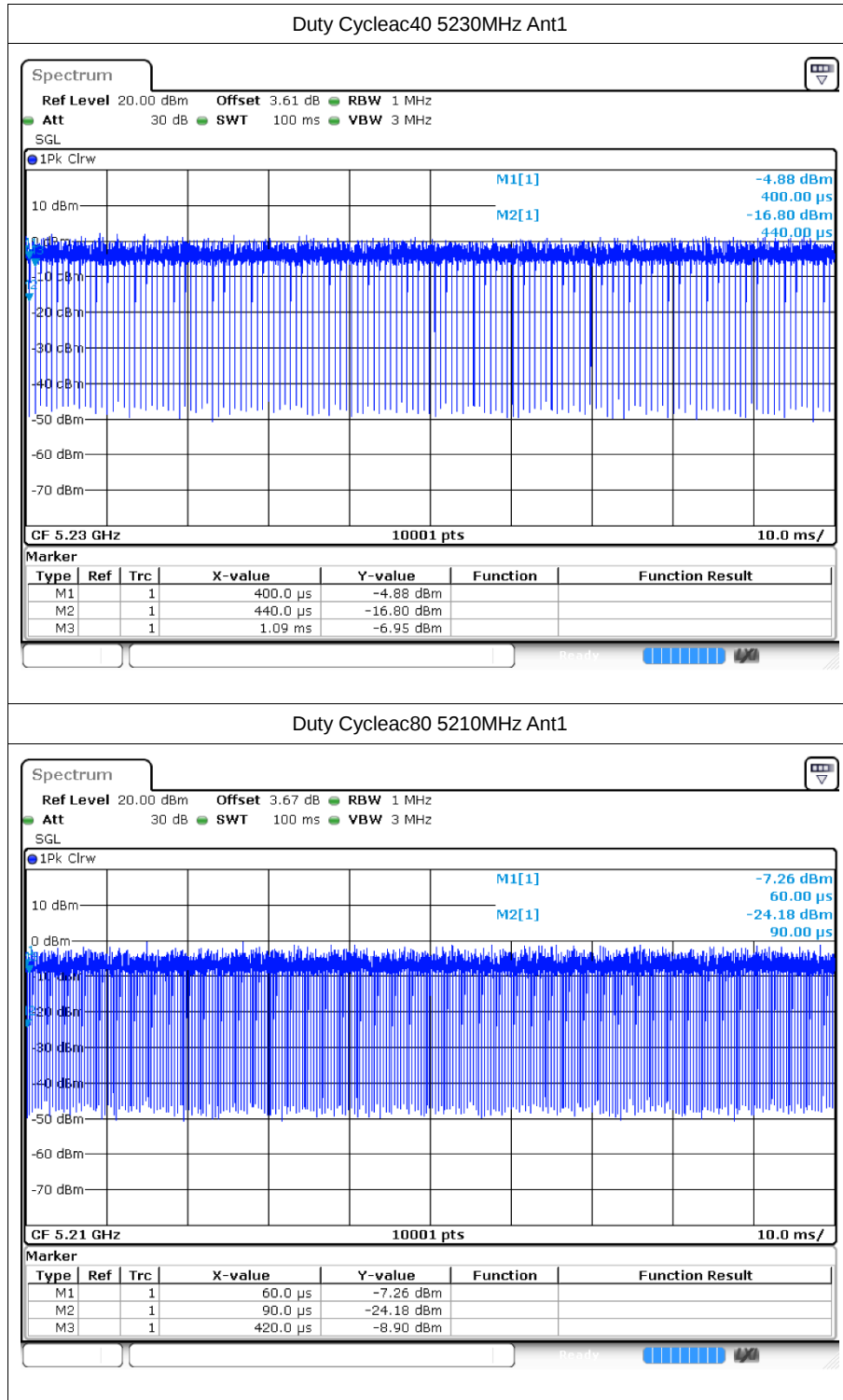












2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
a	5180	Ant1	10.89	24	Pass
a	5200	Ant1	12.58	24	Pass
a	5240	Ant1	11.26	24	Pass
n20	5180	Ant1	12.7	24	Pass
n20	5200	Ant1	12.45	24	Pass
n20	5240	Ant1	12.09	24	Pass
n40	5190	Ant1	12.72	24	Pass
n40	5230	Ant1	12.21	24	Pass
ac20	5180	Ant1	12.7	24	Pass
ac20	5200	Ant1	12.7	24	Pass
ac20	5240	Ant1	12.33	24	Pass
ac40	5190	Ant1	11.67	24	Pass
ac40	5230	Ant1	12.29	24	Pass
ac80	5210	Ant1	12.73	24	Pass

Note:

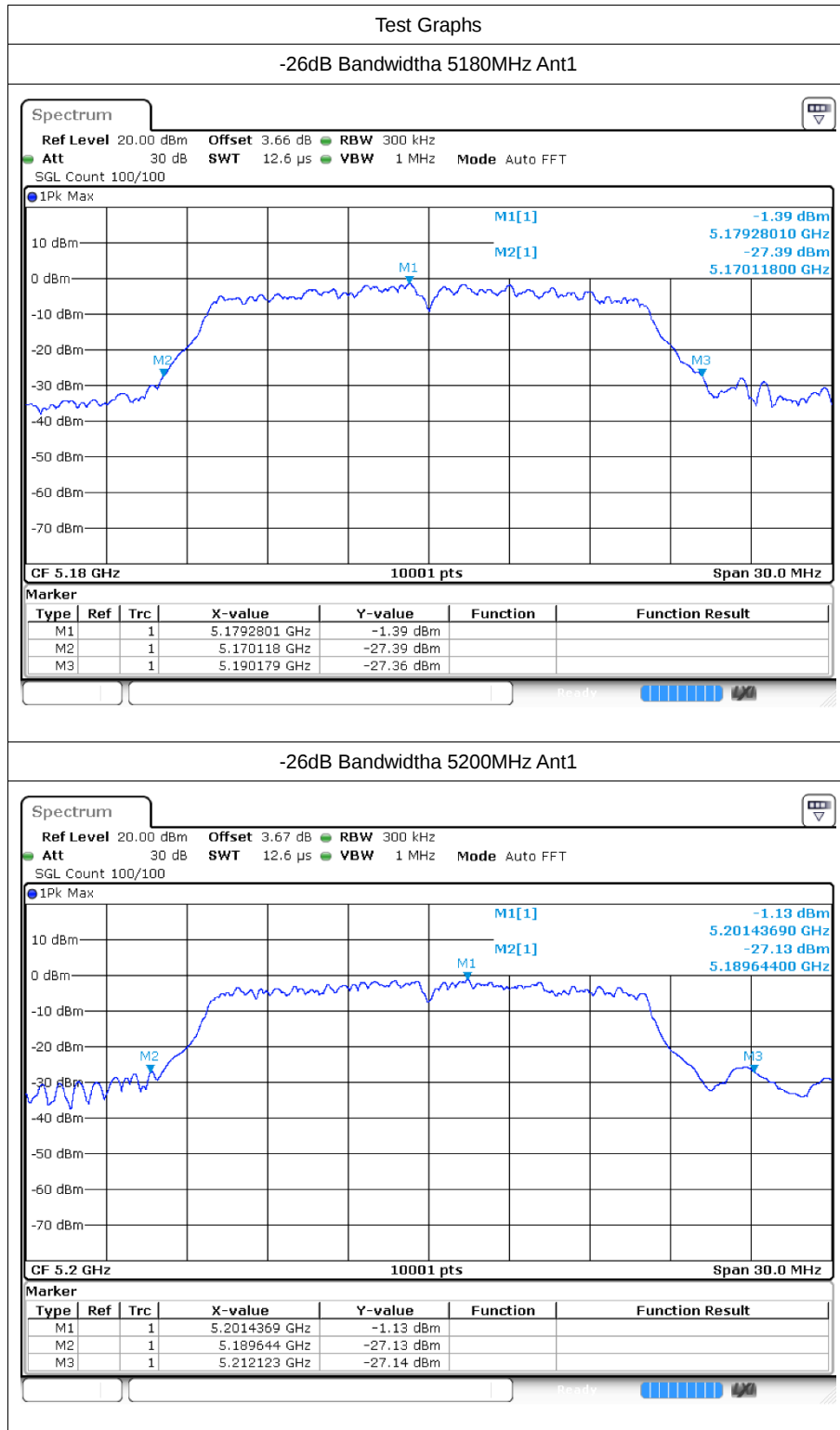
The duty factor has been compensated into the result.

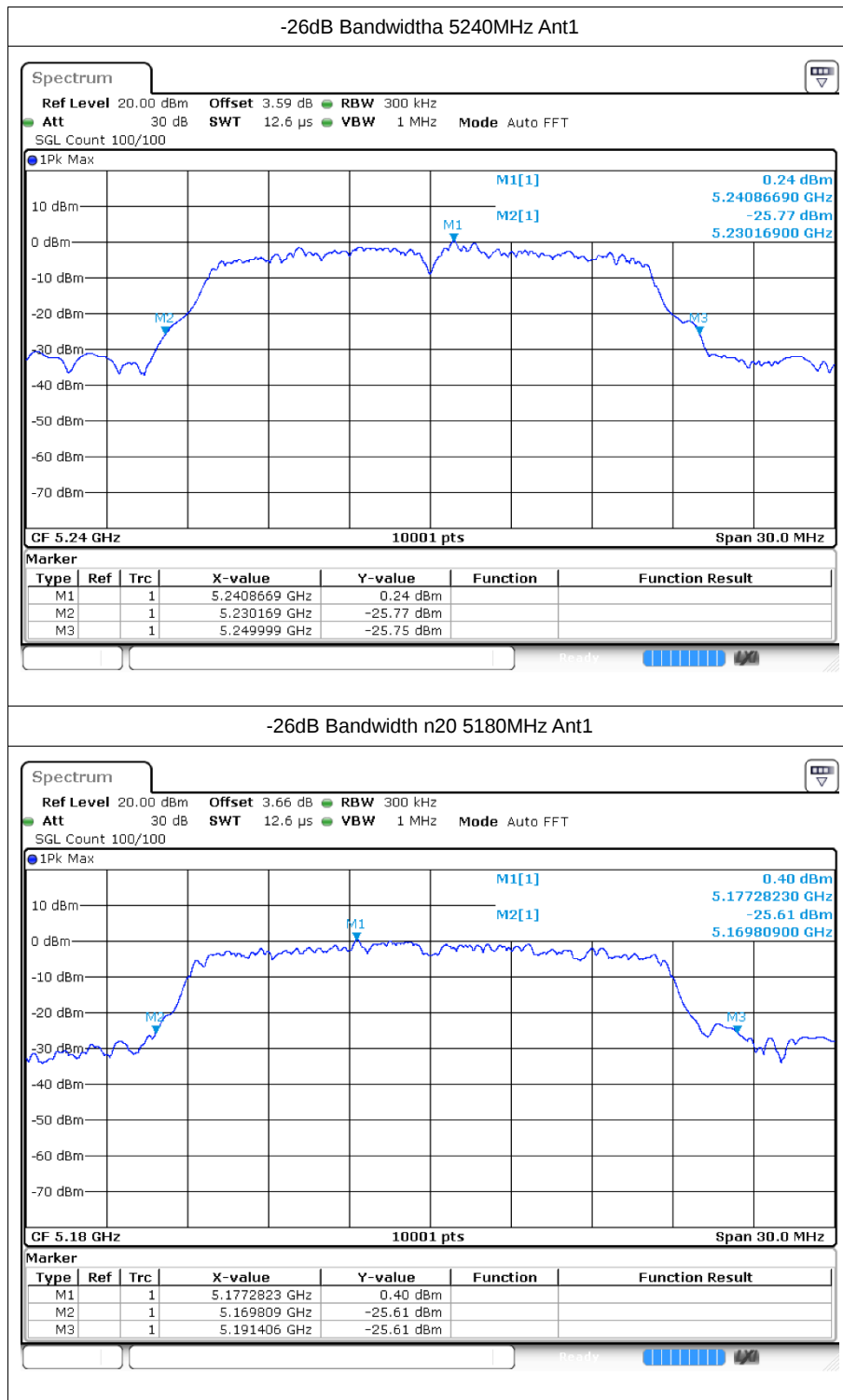
3 -26dB Bandwidth

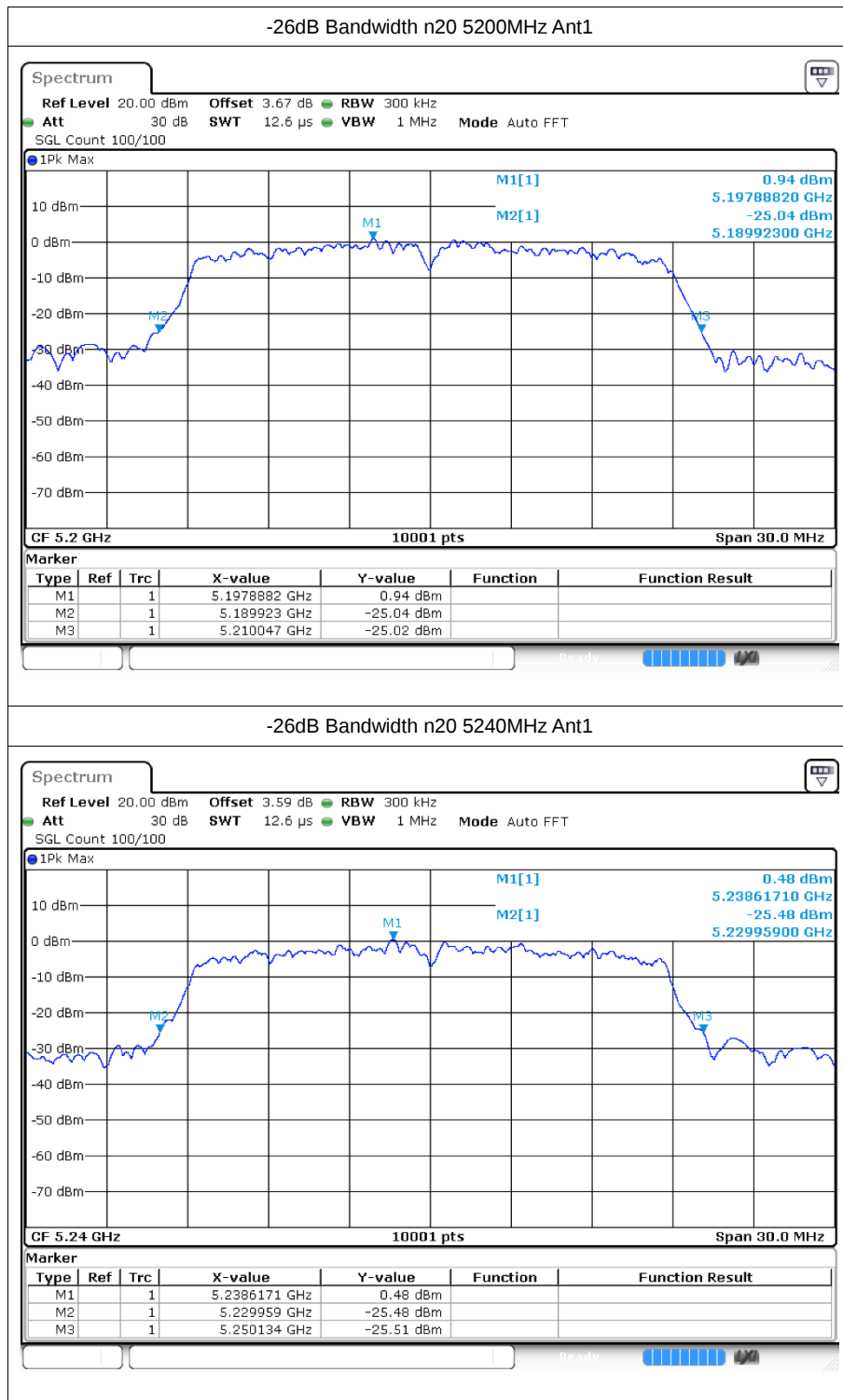
3.1 Test Result

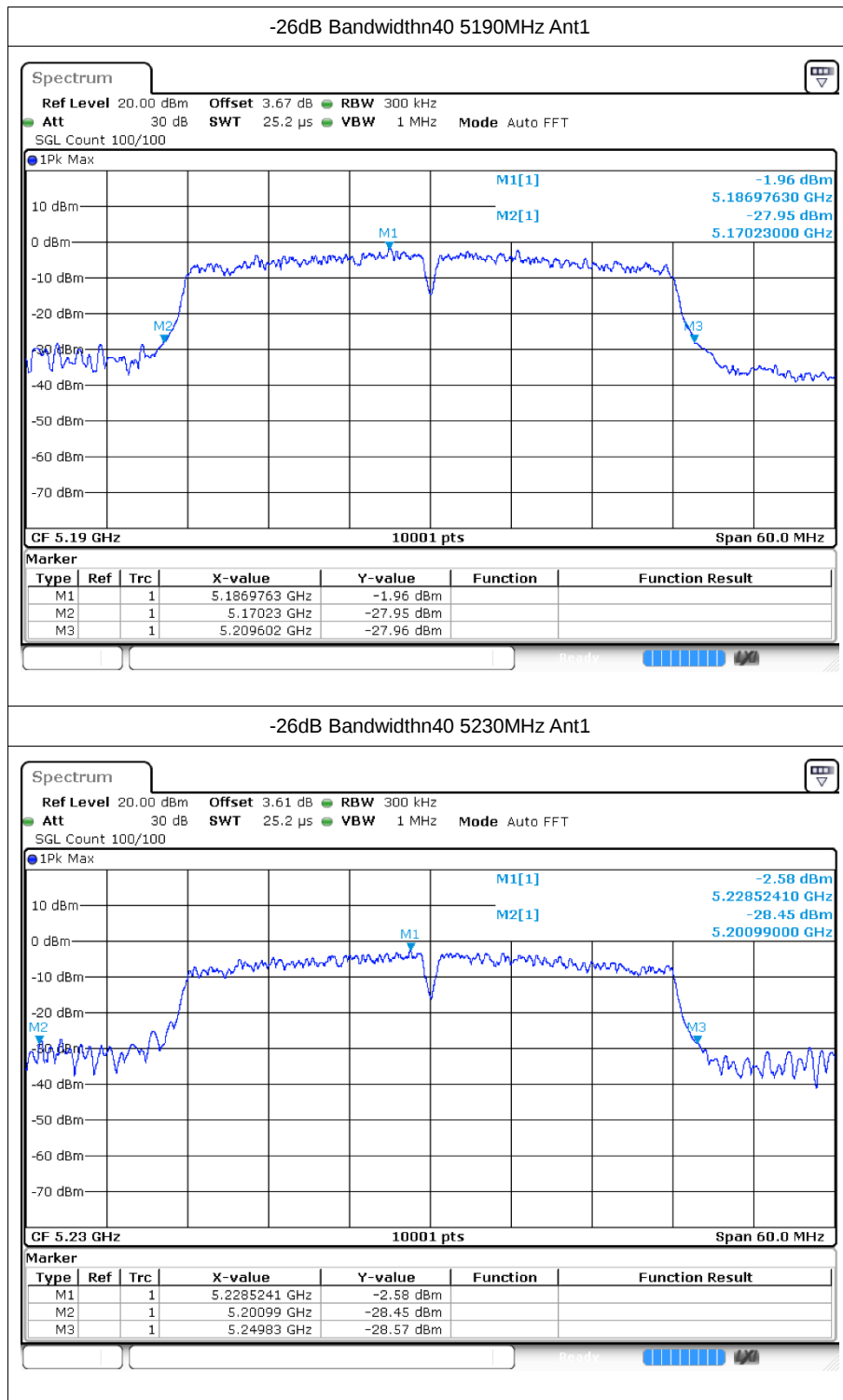
Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
a	5180	Ant1	20.061	0.5	Pass
a	5200	Ant1	22.479	0.5	Pass
a	5240	Ant1	19.83	0.5	Pass
n20	5180	Ant1	21.597	0.5	Pass
n20	5200	Ant1	20.124	0.5	Pass
n20	5240	Ant1	20.175	0.5	Pass
n40	5190	Ant1	39.372	0.5	Pass
n40	5230	Ant1	48.84	0.5	Pass
ac20	5180	Ant1	20.067	0.5	Pass
ac20	5200	Ant1	20.244	0.5	Pass
ac20	5240	Ant1	23.232	0.5	Pass
ac40	5190	Ant1	39.216	0.5	Pass
ac40	5230	Ant1	39.456	0.5	Pass
ac80	5210	Ant1	78.66	0.5	Pass

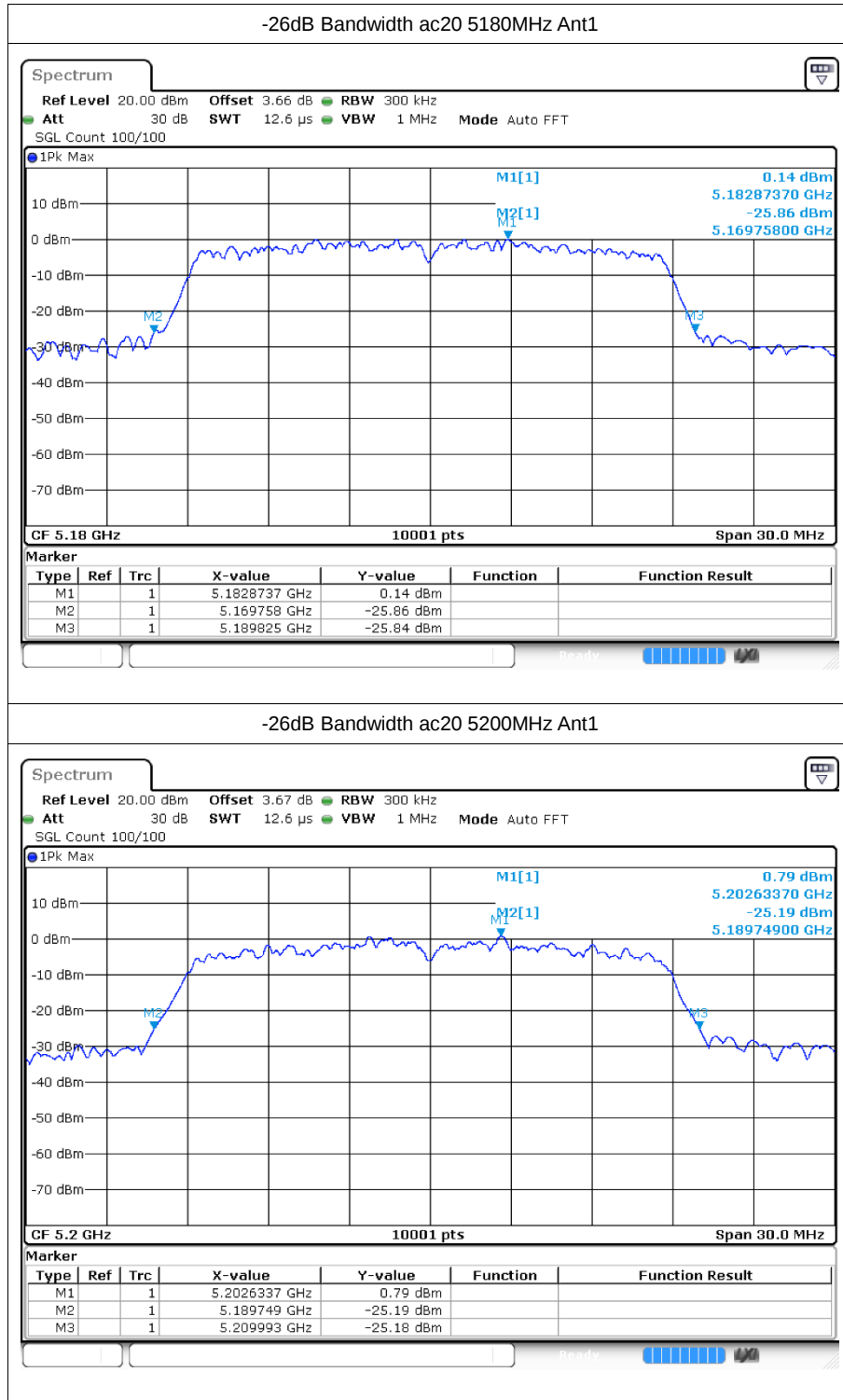
3.2 Test Graphs

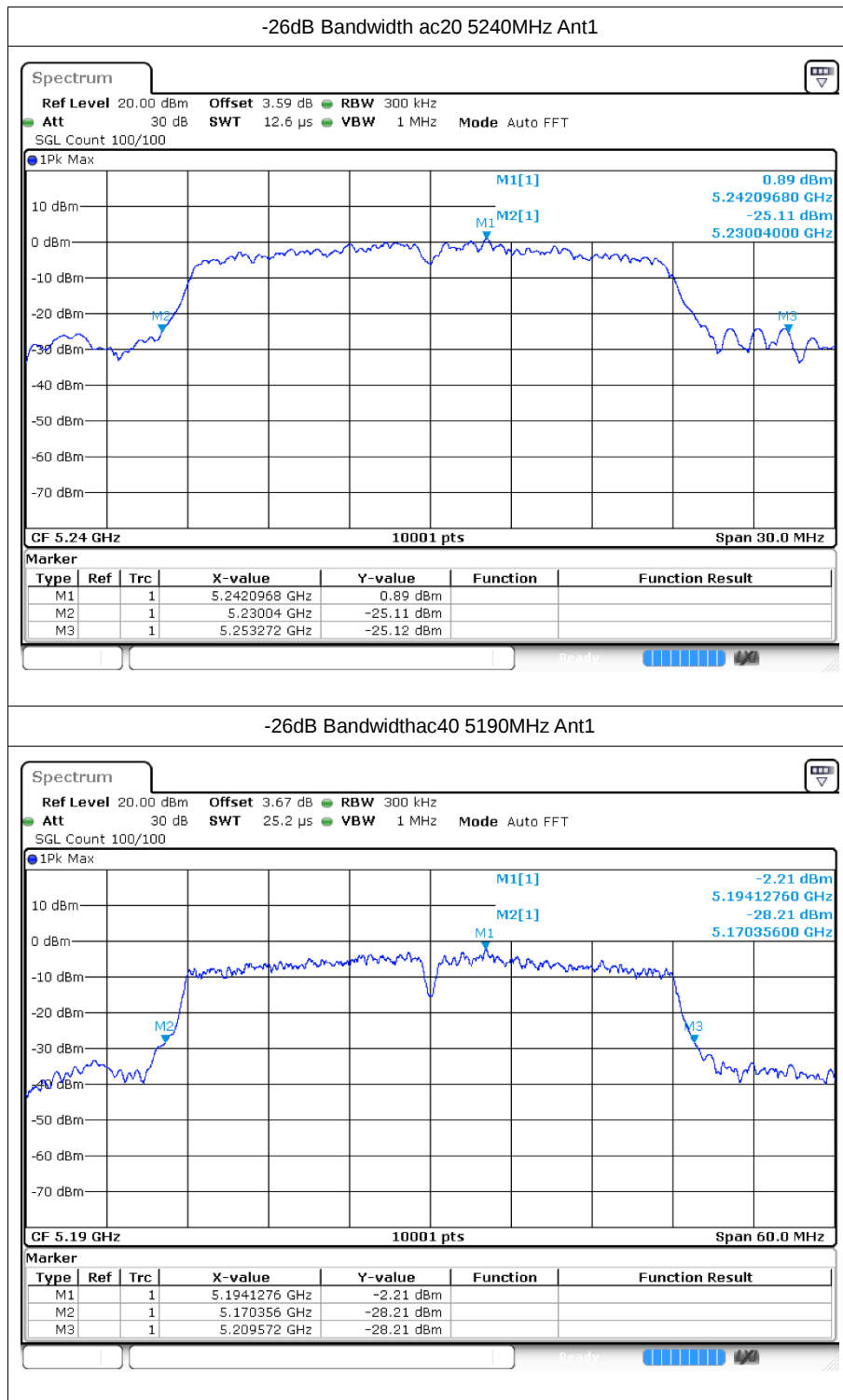


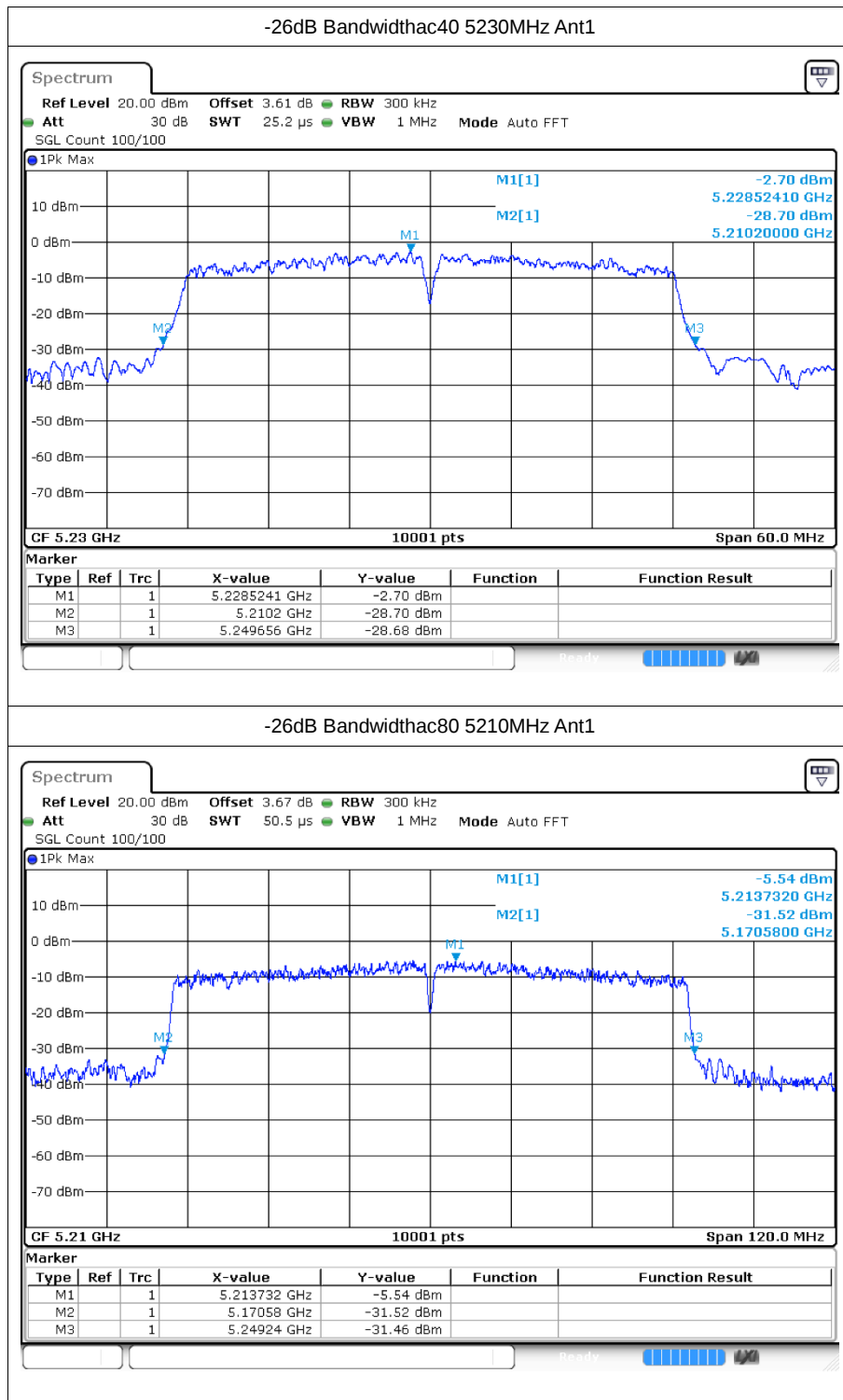










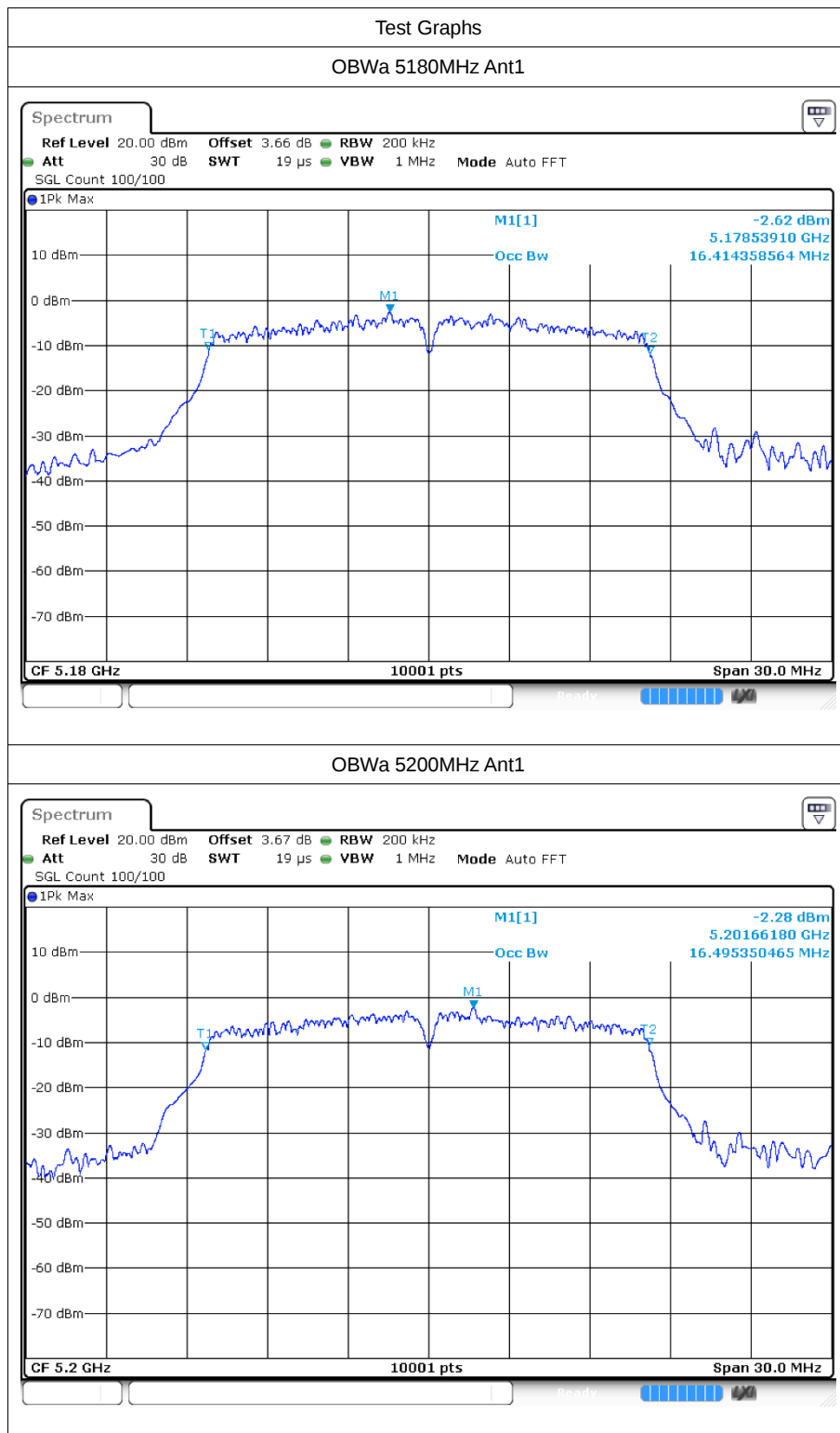


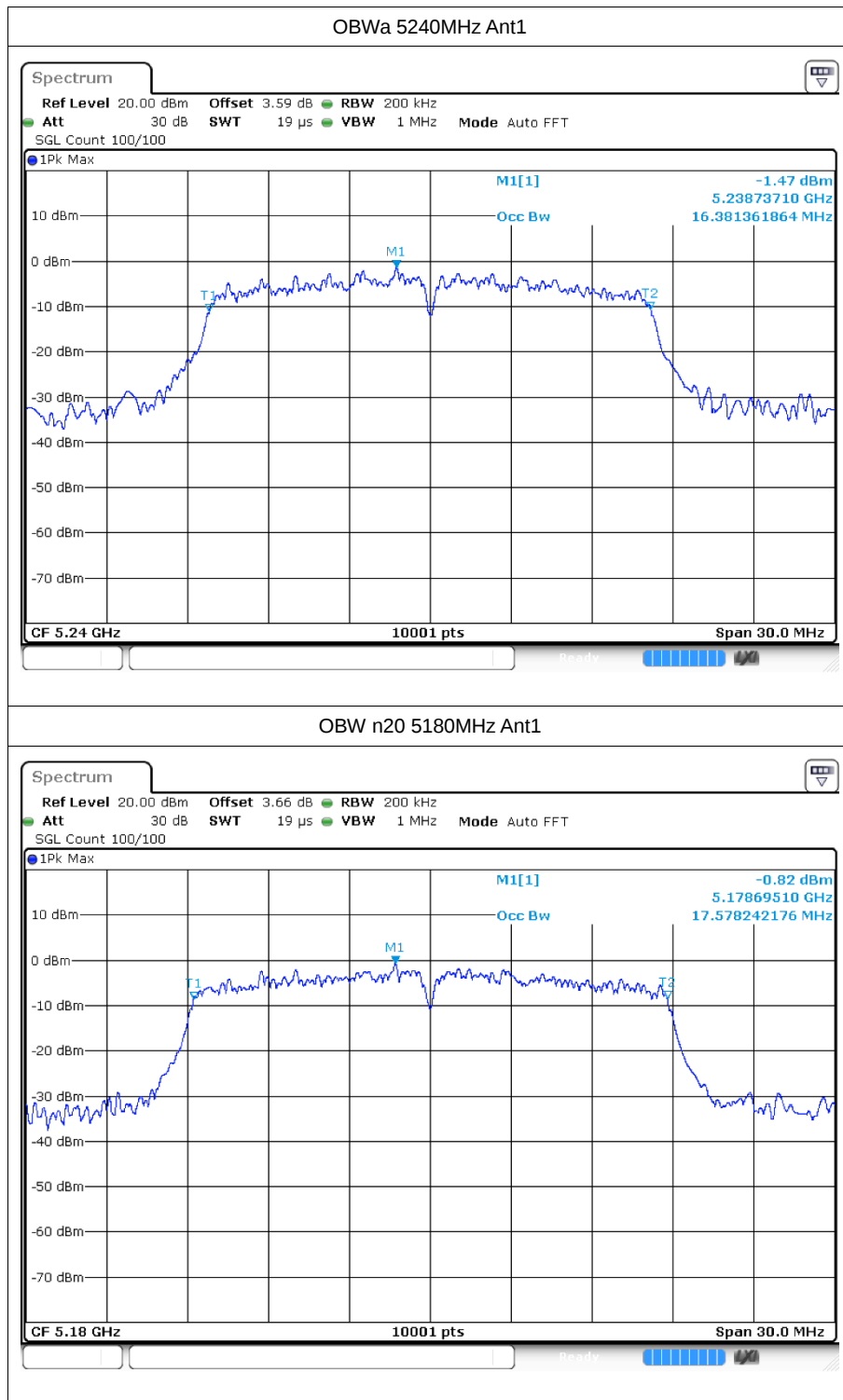
4 Occupied Channel Bandwidth

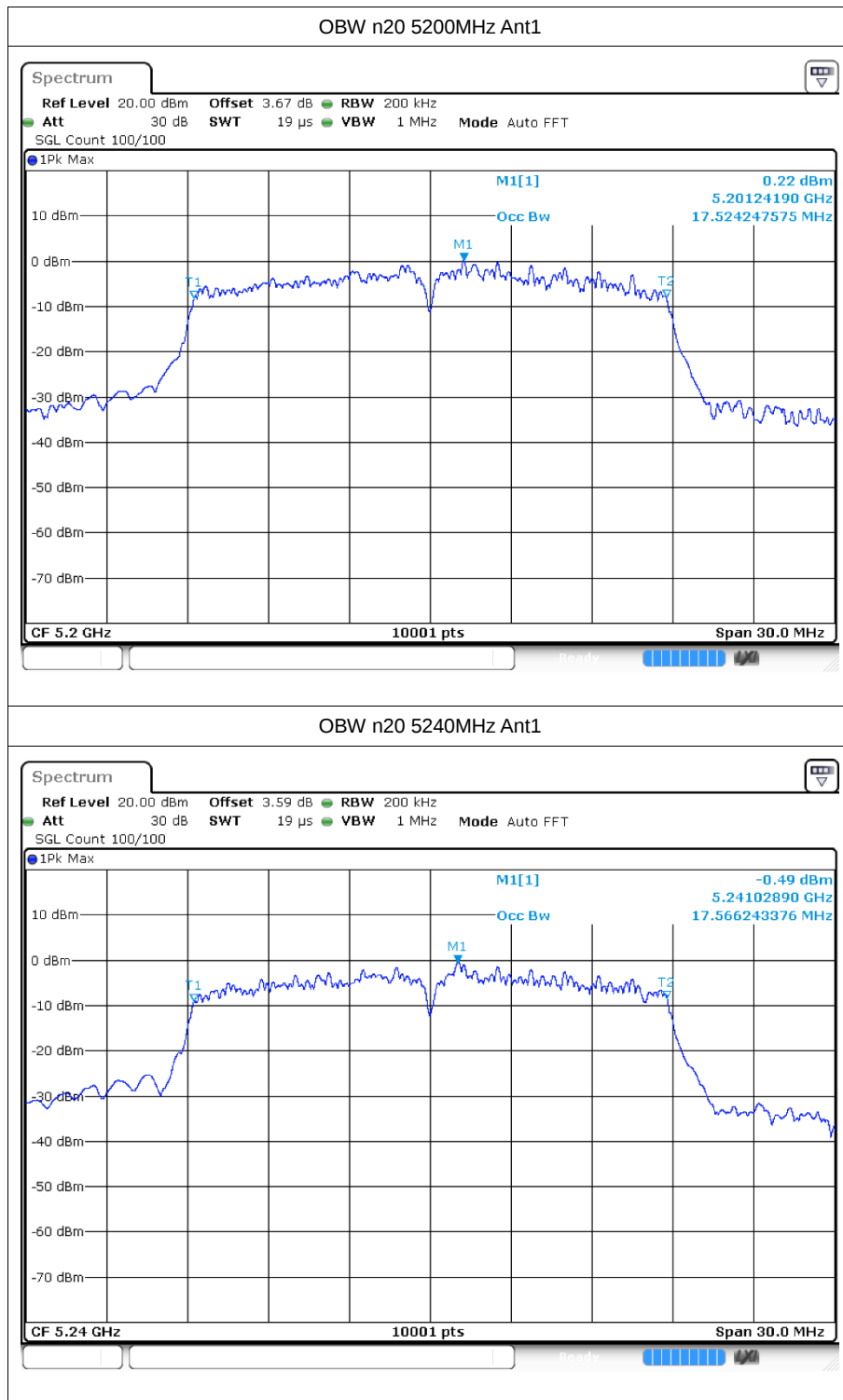
4.1 Test Result

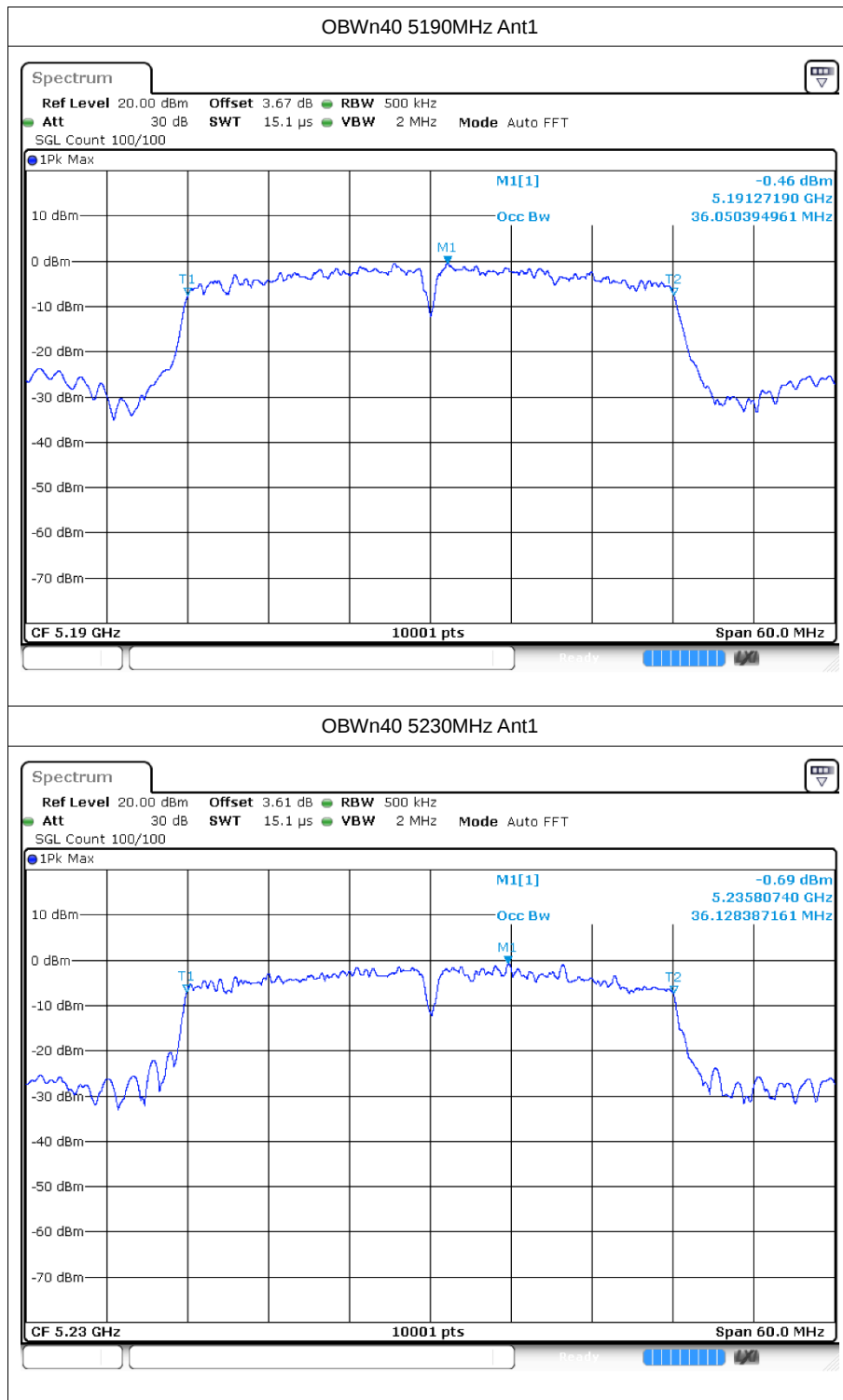
Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
a	5180	Ant1	16.414
a	5200	Ant1	16.495
a	5240	Ant1	16.381
n20	5180	Ant1	17.578
n20	5200	Ant1	17.524
n20	5240	Ant1	17.566
n40	5190	Ant1	36.05
n40	5230	Ant1	36.128
ac20	5180	Ant1	17.752
ac20	5200	Ant1	17.632
ac20	5240	Ant1	17.647
ac40	5190	Ant1	36.344
ac40	5230	Ant1	36.146
ac80	5210	Ant1	75.244

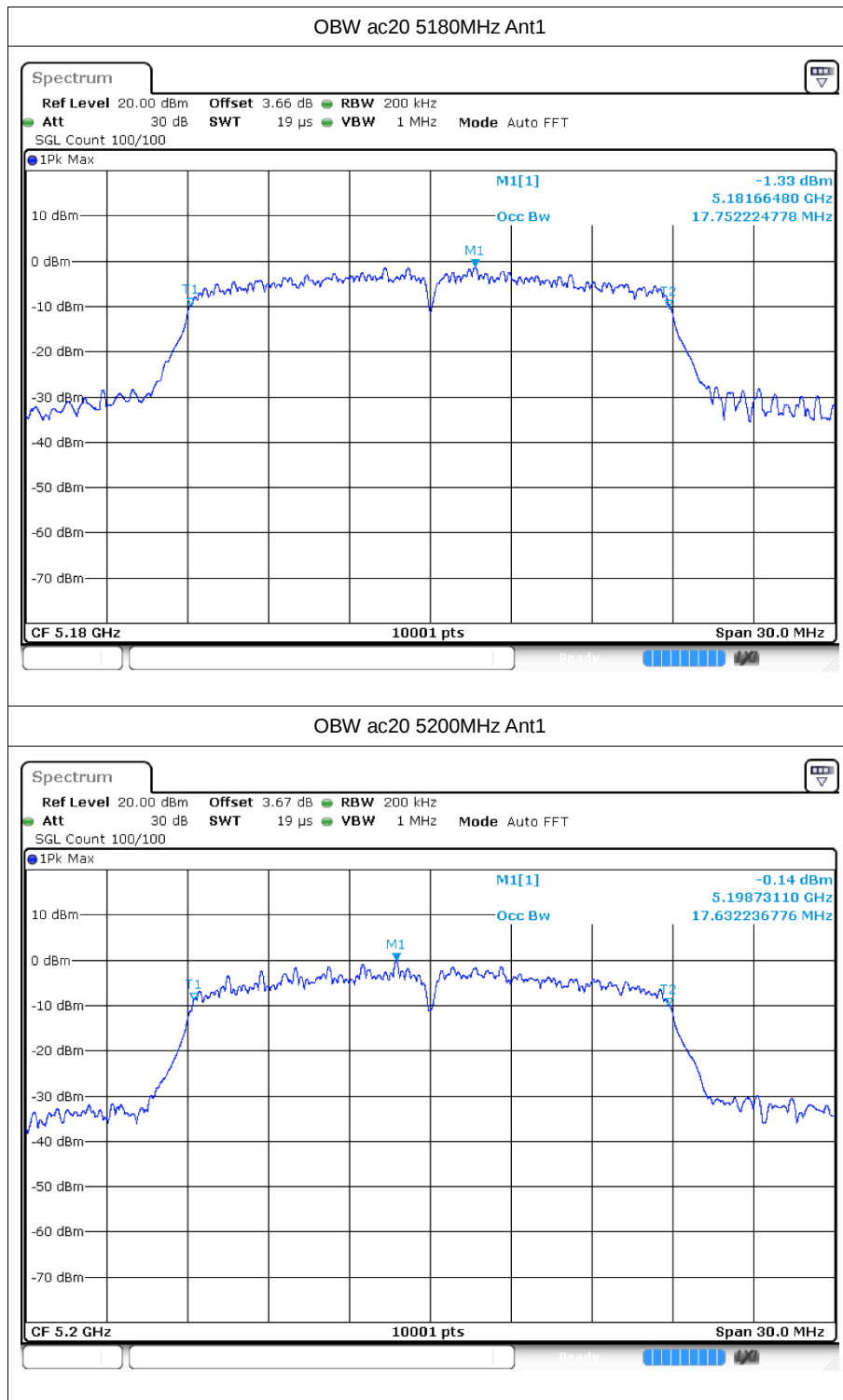
4.2 Test Graphs

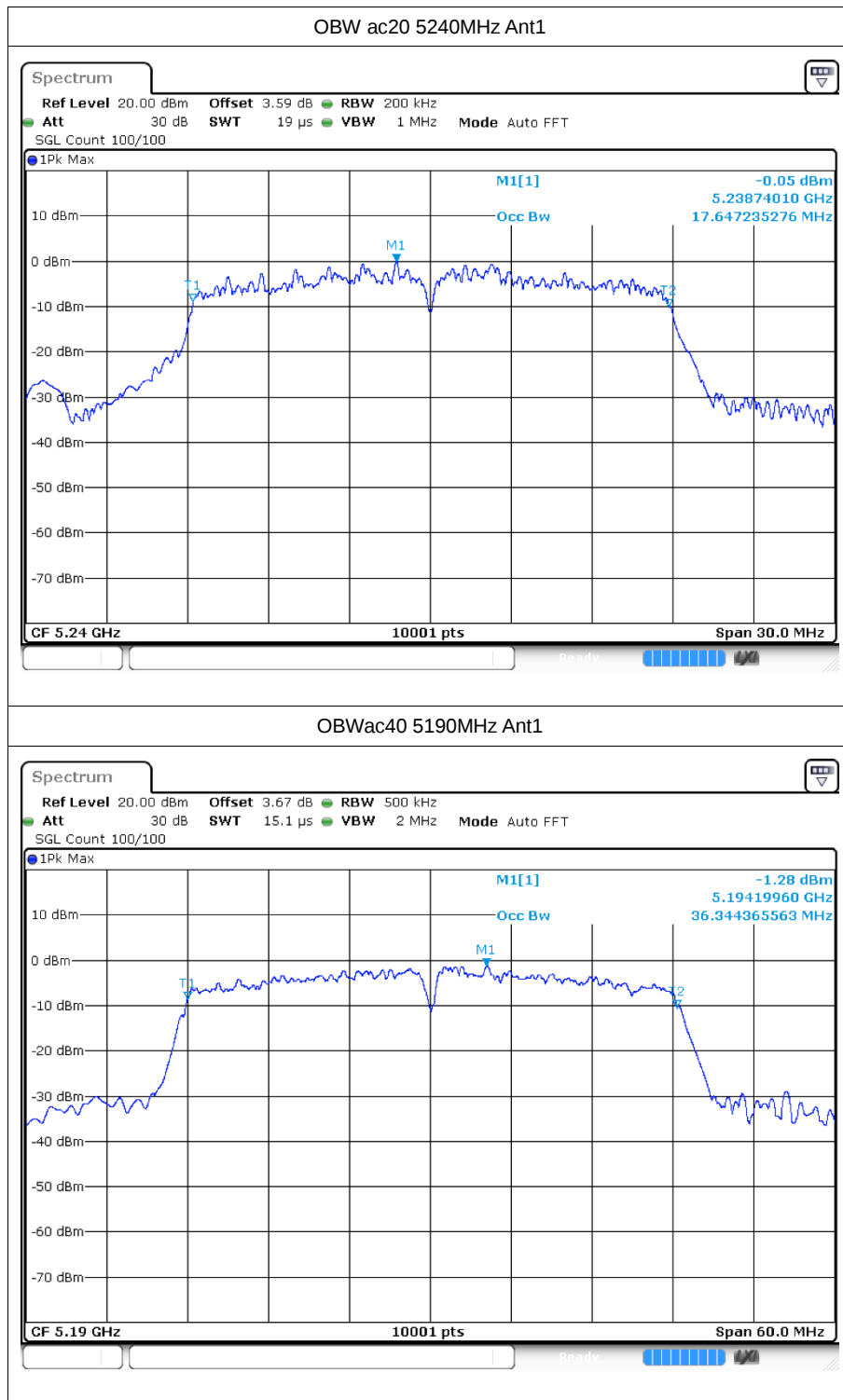


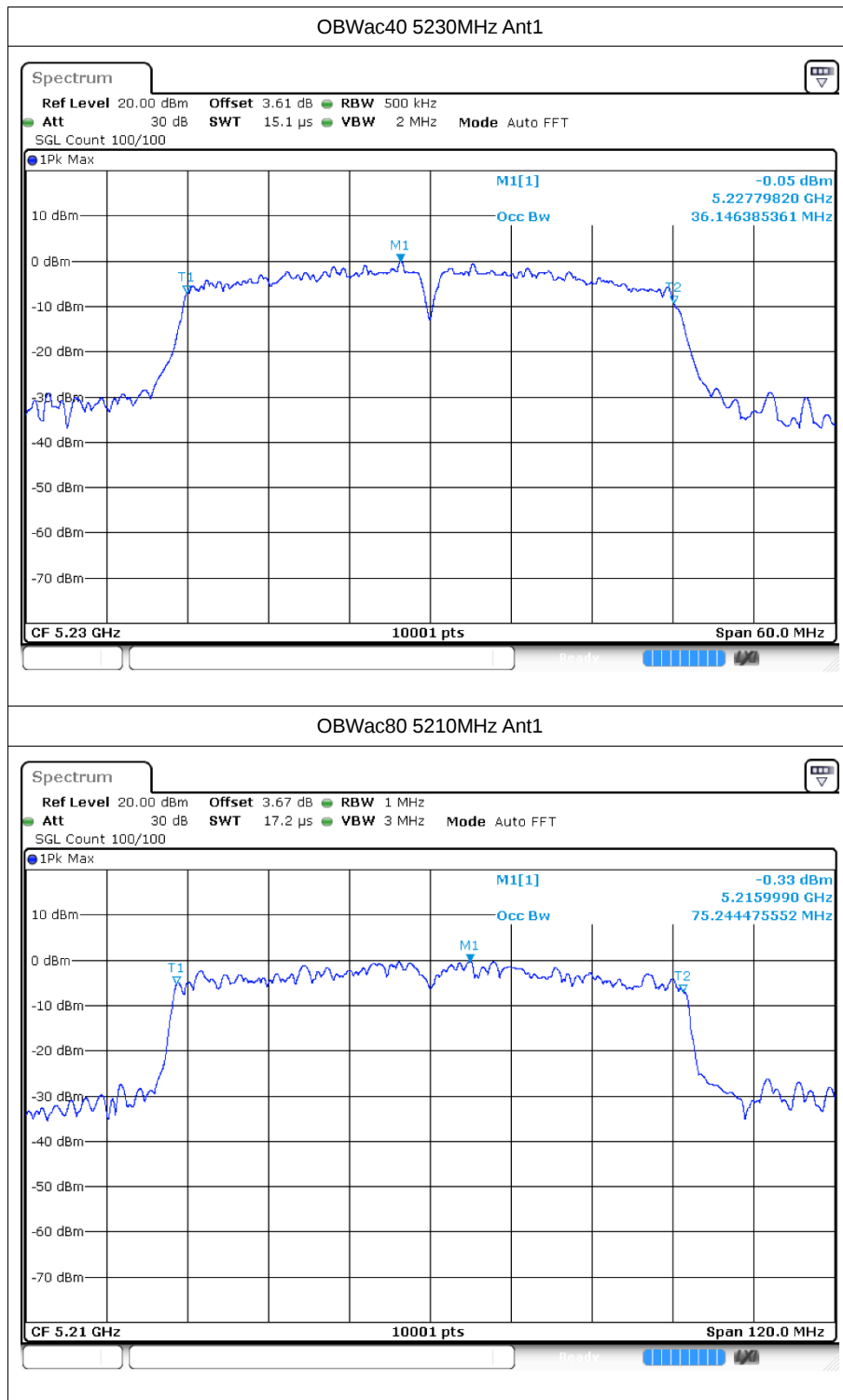










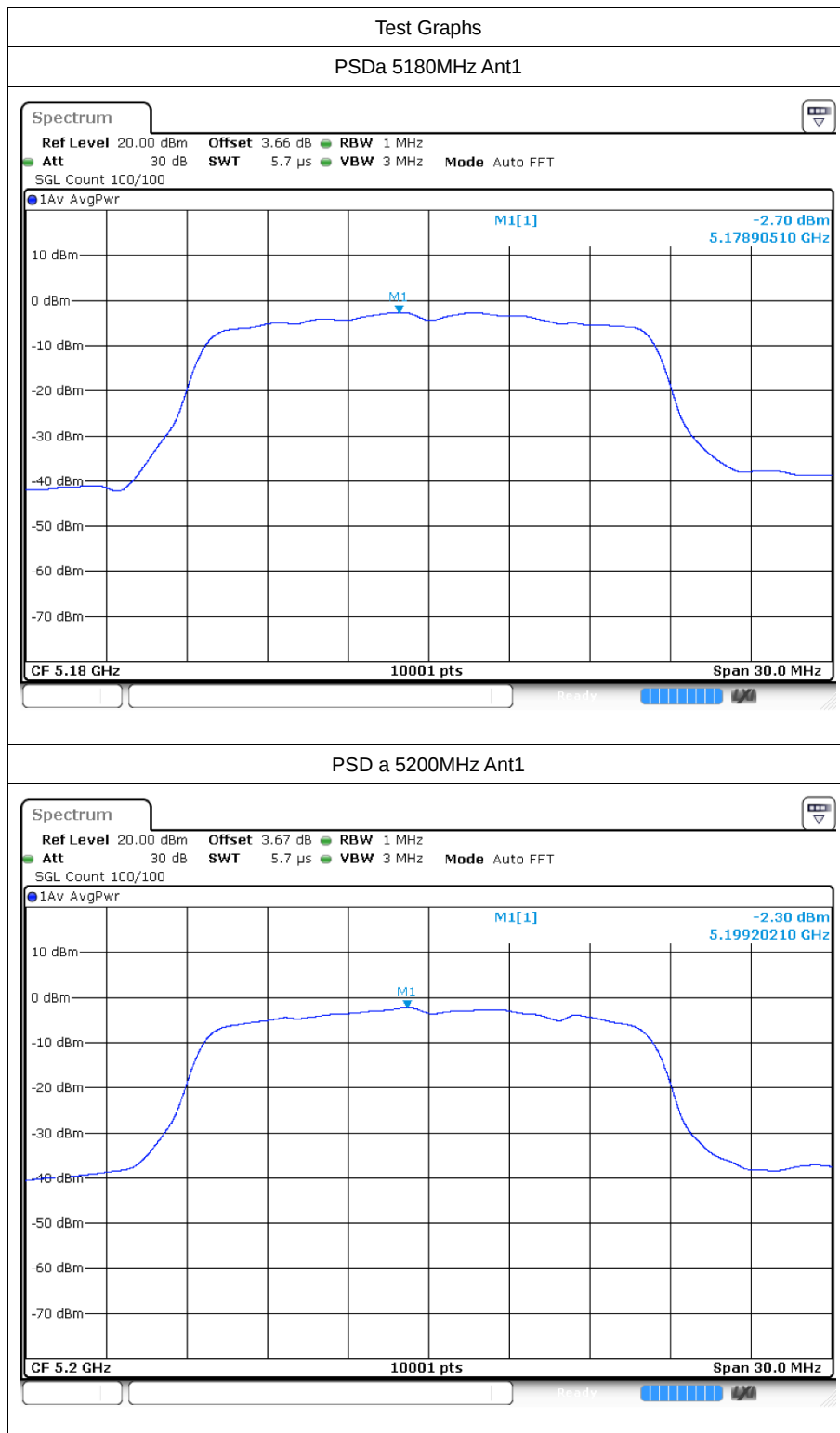


5 Maximum Power Spectral Density Level

5.1 Test Result

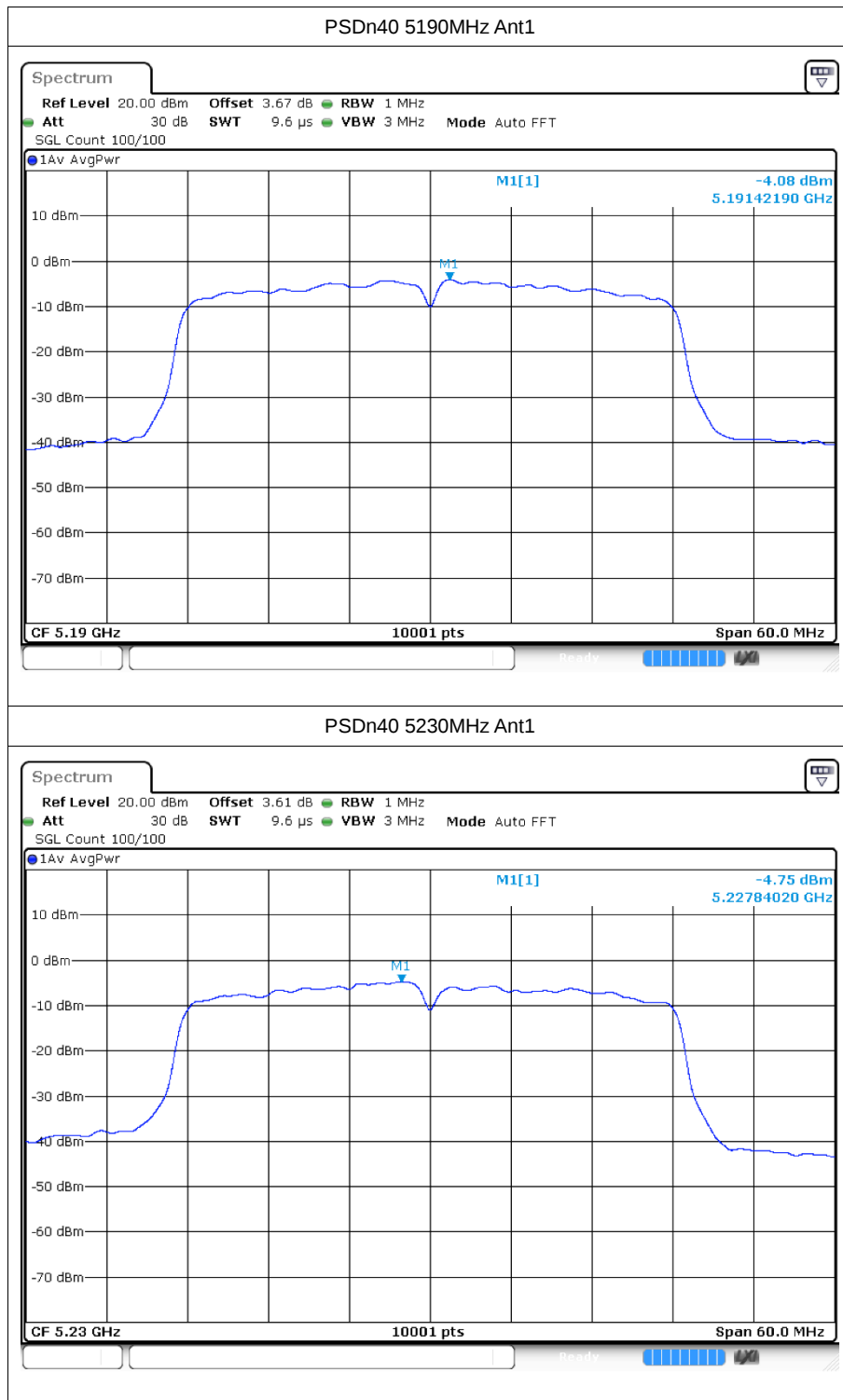
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
a	5180	Ant1	-2.7	0.08	-2.62	11	Pass
a	5200	Ant1	-2.3	0.08	-2.22	11	Pass
a	5240	Ant1	-2.56	0.08	-2.48	11	Pass
n20	5180	Ant1	-1.12	0.08	-1.04	11	Pass
n20	5200	Ant1	-0.82	0.08	-0.74	11	Pass
n20	5240	Ant1	-1.9	0.08	-1.82	11	Pass
n40	5190	Ant1	-4.08	0.16	-3.92	11	Pass
n40	5230	Ant1	-4.75	0.16	-4.59	11	Pass
ac20	5180	Ant1	-1.02	0.08	-0.94	11	Pass
ac20	5200	Ant1	-1.63	0.08	-1.55	11	Pass
ac20	5240	Ant1	-1.28	0.08	-1.2	11	Pass
ac40	5190	Ant1	-4.85	0.16	-4.69	11	Pass
ac40	5230	Ant1	-3.92	0.16	-3.76	11	Pass
ac80	5210	Ant1	-7.62	0.3	-7.32	11	Pass

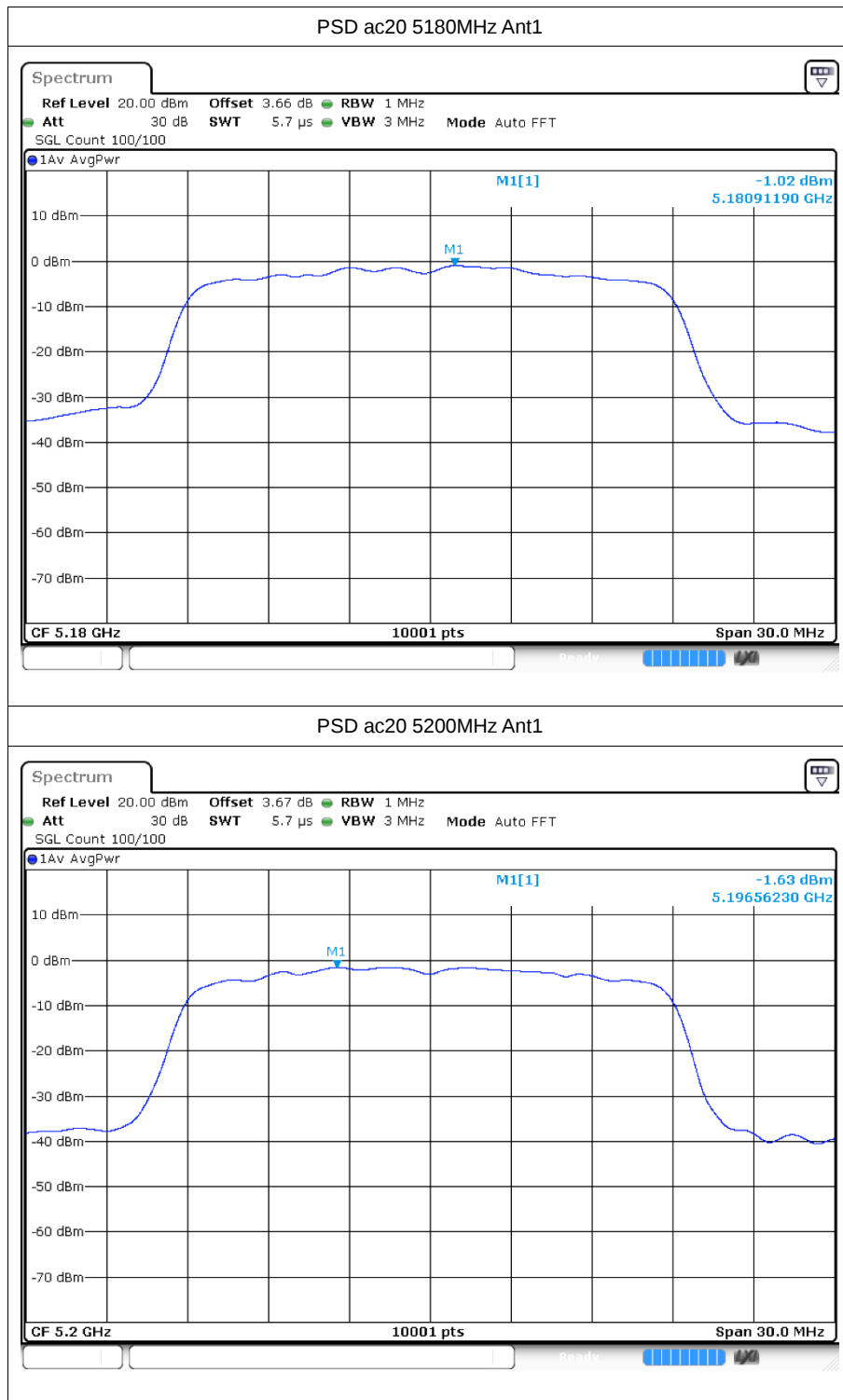
5.2 Test Graphs

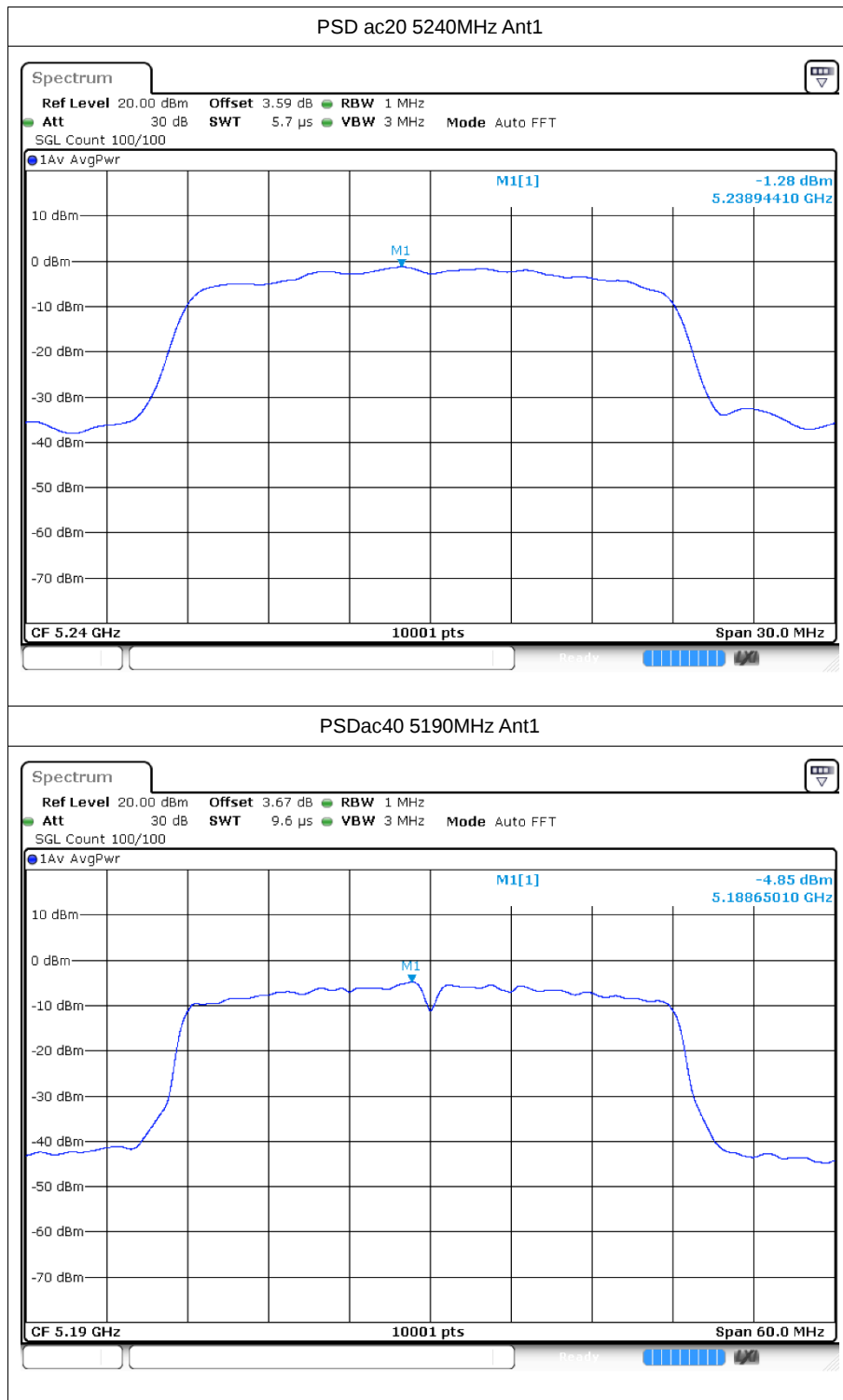


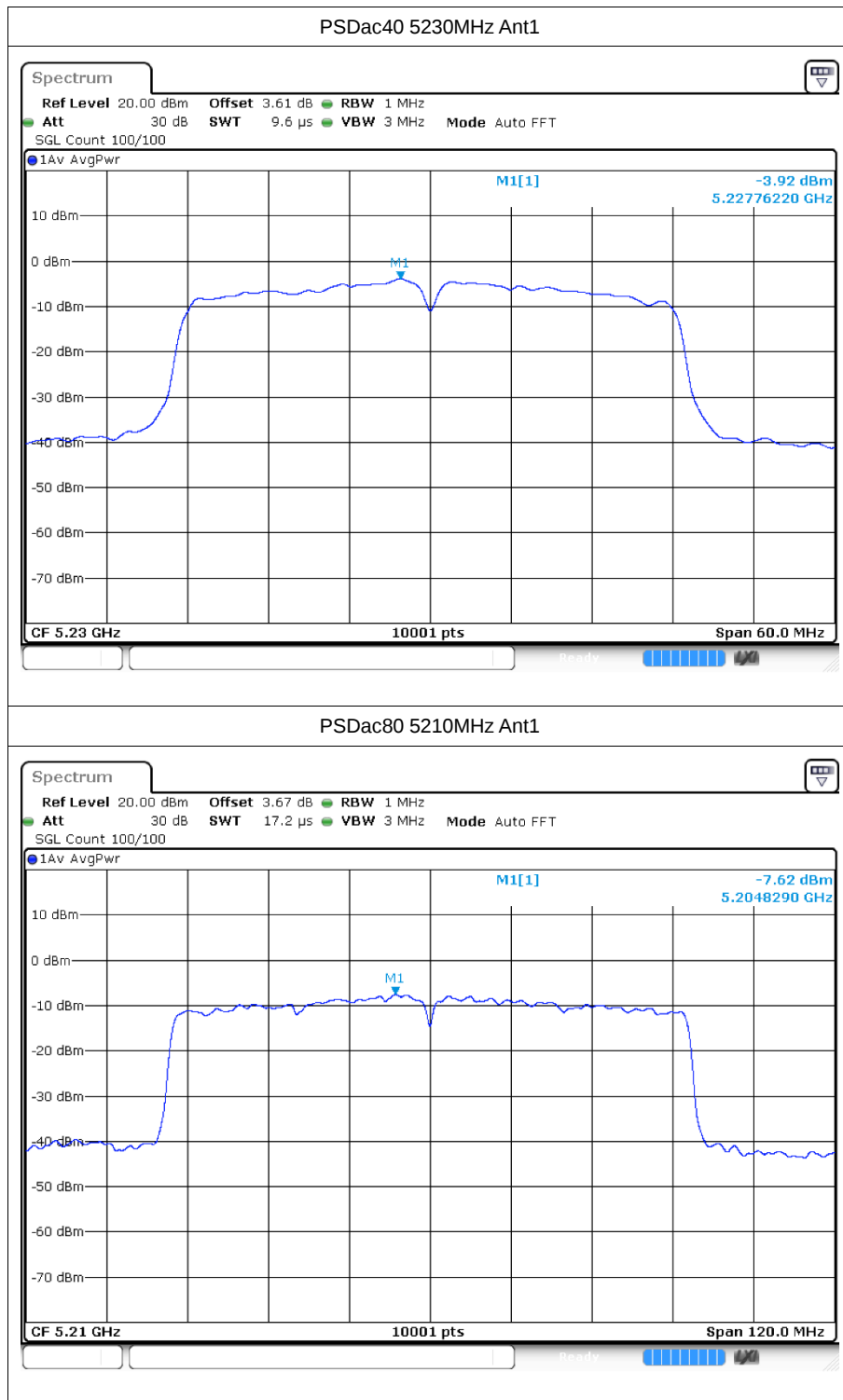












6 Frequency Stability

6.1 Test Result

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
20C 102V	a	5180	Ant1	5179.98	-20000	-3.86	25	Pass
20C 120V	a	5180	Ant1	5180.02	20000	3.86	25	Pass
20C 138V	a	5180	Ant1	5180	0	0	25	Pass
-20C 120V	a	5180	Ant1	5180	0	0	25	Pass
-10C 120V	a	5180	Ant1	5180.04	40000	7.72	25	Pass
0C 120V	a	5180	Ant1	5180	0	0	25	Pass
10C 120V	a	5180	Ant1	5180.02	20000	3.86	25	Pass
30C 120V	a	5180	Ant1	5180	0	0	25	Pass
40C 120V	a	5180	Ant1	5180	0	0	25	Pass
50C 120V	a	5180	Ant1	5180	0	0	25	Pass
20C 102V	a	5200	Ant1	5200	0	0	25	Pass
20C 120V	a	5200	Ant1	5200	0	0	25	Pass
20C 138V	a	5200	Ant1	5200.02	20000	3.85	25	Pass
-20C 120V	a	5200	Ant1	5200	0	0	25	Pass
-10C 120V	a	5200	Ant1	5200	0	0	25	Pass
0C 120V	a	5200	Ant1	5200	0	0	25	Pass
10C 120V	a	5200	Ant1	5199.98	-20000	-3.85	25	Pass
30C 120V	a	5200	Ant1	5200.04	40000	7.69	25	Pass
40C 120V	a	5200	Ant1	5199.98	-20000	-3.85	25	Pass
20C 102V	a	5200	Ant1	5200	0	0	25	Pass
20C 102V	a	5240	Ant1	5239.98	-20000	-3.82	25	Pass
20C 120V	a	5240	Ant1	5240	0	0	25	Pass
20C 138V	a	5240	Ant1	5240	0	0	25	Pass
-20C 120V	a	5240	Ant1	5239.96	-40000	-7.63	25	Pass
-10C 120V	a	5240	Ant1	5240.02	20000	3.82	25	Pass
0C 120V	a	5240	Ant1	5240.02	20000	3.82	25	Pass
10C 120V	a	5240	Ant1	5239.98	-20000	-3.82	25	Pass
30C 120V	a	5240	Ant1	5239.98	-20000	-3.82	25	Pass
40C 120V	a	5240	Ant1	5240.02	20000	3.82	25	Pass
50C 120V	a	5240	Ant1	5239.98	-20000	-3.82	25	Pass
20C 102V	n20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
20C 120V	n20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
20C 138V	n20	5180	Ant1	5180.02	20000	3.86	25	Pass
-20C 120V	n20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
-10C 120V	n20	5180	Ant1	5179.98	-20000	-3.86	25	Pass

0C 120V	n20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
10C 120V	n20	5180	Ant1	5180	0	0	25	Pass
30C 120V	n20	5180	Ant1	5180.02	20000	3.86	25	Pass
40C 120V	n20	5180	Ant1	5180	0	0	25	Pass
50C 120V	n20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
20C 102V	n20	5200	Ant1	5200	0	0	25	Pass
20C 120V	n20	5200	Ant1	5200	0	0	25	Pass
20C 138V	n20	5200	Ant1	5200.02	20000	3.85	25	Pass
-20C 120V	n20	5200	Ant1	5200	0	0	25	Pass
-10C 120V	n20	5200	Ant1	5200	0	0	25	Pass
0C 120V	n20	5200	Ant1	5200.02	20000	3.85	25	Pass
10C 120V	n20	5200	Ant1	5200	0	0	25	Pass
30C 120V	n20	5200	Ant1	5200.02	20000	3.85	25	Pass
40C 120V	n20	5200	Ant1	5200	0	0	25	Pass
50C 120V	n20	5200	Ant1	5200	0	0	25	Pass
20C 102V	n20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
20C 120V	n20	5240	Ant1	5240	0	0	25	Pass
20C 138V	n20	5240	Ant1	5240.02	20000	3.82	25	Pass
-20C 120V	n20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
-10C 120V	n20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
0C 120V	n20	5240	Ant1	5240	0	0	25	Pass
10C 120V	n20	5240	Ant1	5240	0	0	25	Pass
30C 120V	n20	5240	Ant1	5240	0	0	25	Pass
40C 120V	n20	5240	Ant1	5240	0	0	25	Pass
50C 120V	n20	5240	Ant1	5240	0	0	25	Pass
20C 102V	n40	5190	Ant1	5190	0	0	25	Pass
20C 120V	n40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
20C 138V	n40	5190	Ant1	5190	0	0	25	Pass
-20C 120V	n40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
-10C 120V	n40	5190	Ant1	5190	0	0	25	Pass
0C 120V	n40	5190	Ant1	5190	0	0	25	Pass
10C 120V	n40	5190	Ant1	5190	0	0	25	Pass
30C 120V	n40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
40C 120V	n40	5190	Ant1	5190	0	0	25	Pass
50C 120V	n40	5190	Ant1	5190	0	0	25	Pass
20C 102V	n40	5230	Ant1	5230	0	0	25	Pass
20C 120V	n40	5230	Ant1	5230	0	0	25	Pass
20C 138V	n40	5230	Ant1	5230	0	0	25	Pass
-20C 120V	n40	5230	Ant1	5230	0	0	25	Pass
-10C 120V	n40	5230	Ant1	5230	0	0	25	Pass
0C 120V	n40	5230	Ant1	5230	0	0	25	Pass
10C 120V	n40	5230	Ant1	5230	0	0	25	Pass
30C 120V	n40	5230	Ant1	5230	0	0	25	Pass
40C 120V	n40	5230	Ant1	5230	0	0	25	Pass

50C 120V	n40	5230	Ant1	5230	0	0	25	Pass
20C 102V	ac20	5180	Ant1	5180	0	0	25	Pass
20C 120V	ac20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
20C 138V	ac20	5180	Ant1	5180	0	0	25	Pass
-20C 120V	ac20	5180	Ant1	5180	0	0	25	Pass
-10C 120V	ac20	5180	Ant1	5180	0	0	25	Pass
0C 120V	ac20	5180	Ant1	5179.96	-40000	-7.72	25	Pass
10C 120V	ac20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
30C 120V	ac20	5180	Ant1	5180	0	0	25	Pass
40C 120V	ac20	5180	Ant1	5180	0	0	25	Pass
50C 120V	ac20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
20C 102V	ac20	5200	Ant1	5200	0	0	25	Pass
20C 120V	ac20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
20C 138V	ac20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
-20C 120V	ac20	5200	Ant1	5200	0	0	25	Pass
-10C 120V	ac20	5200	Ant1	5200	0	0	25	Pass
0C 120V	ac20	5200	Ant1	5200.02	20000	3.85	25	Pass
10C 120V	ac20	5200	Ant1	5200	0	0	25	Pass
30C 120V	ac20	5200	Ant1	5200	0	0	25	Pass
40C 120V	ac20	5200	Ant1	5200	0	0	25	Pass
50C 120V	ac20	5200	Ant1	5200	0	0	25	Pass
20C 102V	ac20	5240	Ant1	5240	0	0	25	Pass
20C 120V	ac20	5240	Ant1	5240	0	0	25	Pass
20C 138V	ac20	5240	Ant1	5240	0	0	25	Pass
-20C 120V	ac20	5240	Ant1	5240	0	0	25	Pass
-10C 120V	ac20	5240	Ant1	5240	0	0	25	Pass
0C 120V	ac20	5240	Ant1	5240	0	0	25	Pass
10C 120V	ac20	5240	Ant1	5240.02	20000	3.82	25	Pass
30C 120V	ac20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
40C 120V	ac20	5240	Ant1	5240	0	0	25	Pass
50C 120V	ac20	5240	Ant1	5239.96	-40000	-7.63	25	Pass
20C 102V	ac40	5190	Ant1	5190	0	0	25	Pass
20C 120V	ac40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
20C 138V	ac40	5190	Ant1	5190	0	0	25	Pass
-20C 120V	ac40	5190	Ant1	5190	0	0	25	Pass
-10C 120V	ac40	5190	Ant1	5190	0	0	25	Pass
0C 120V	ac40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
10C 120V	ac40	5190	Ant1	5190	0	0	25	Pass
30C 120V	ac40	5190	Ant1	5190	0	0	25	Pass
40C 120V	ac40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
50C 120V	ac40	5190	Ant1	5190	0	0	25	Pass
20C 102V	ac40	5230	Ant1	5229.96	-40000	-7.65	25	Pass
20C 120V	ac40	5230	Ant1	5230	0	0	25	Pass
20C 138V	ac40	5230	Ant1	5230	0	0	25	Pass

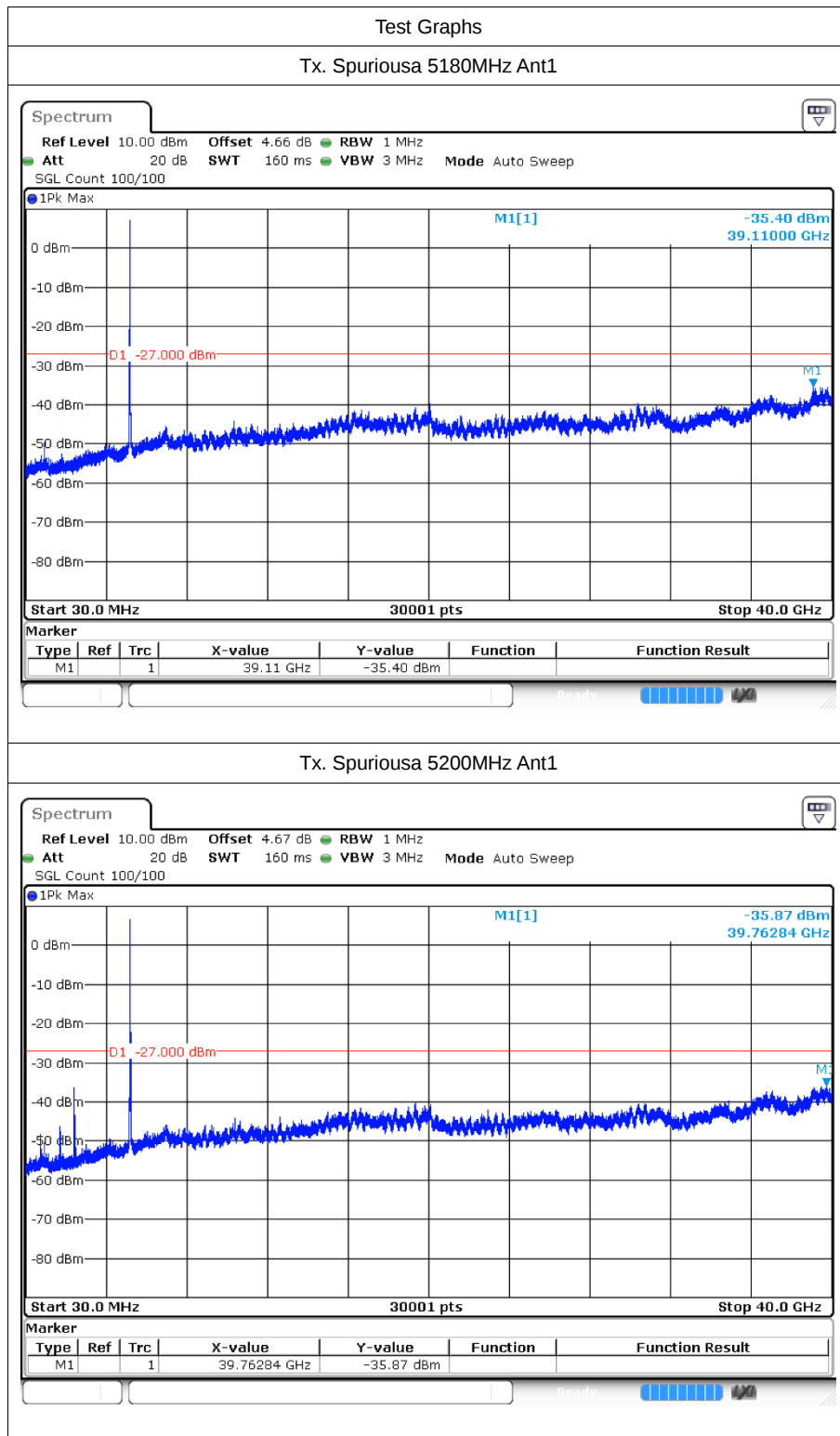
-20C 120V	ac40	5230	Ant1	5229.96	-40000	-7.65	25	Pass
-10C 120V	ac40	5230	Ant1	5230	0	0	25	Pass
0C 120V	ac40	5230	Ant1	5230	0	0	25	Pass
10C 120V	ac40	5230	Ant1	5229.96	-40000	-7.65	25	Pass
30C 120V	ac40	5230	Ant1	5229.96	-40000	-7.65	25	Pass
40C 120V	ac40	5230	Ant1	5230	0	0	25	Pass
50C 120V	ac40	5230	Ant1	5230	0	0	25	Pass
20C 102V	ac80	5210	Ant1	5210	0	0	25	Pass
20C 120V	ac80	5210	Ant1	5210	0	0	25	Pass
20C 138V	ac80	5210	Ant1	5210	0	0	25	Pass
-20C 120V	ac80	5210	Ant1	5210	0	0	25	Pass
-10C 120V	ac80	5210	Ant1	5210	0	0	25	Pass
0C 120V	ac80	5210	Ant1	5210	0	0	25	Pass
10C 120V	ac80	5210	Ant1	5210	0	0	25	Pass
30C 120V	ac80	5210	Ant1	5210	0	0	25	Pass
40C 120V	ac80	5210	Ant1	5210	0	0	25	Pass
50C 120V	ac80	5210	Ant1	5210	0	0	25	Pass

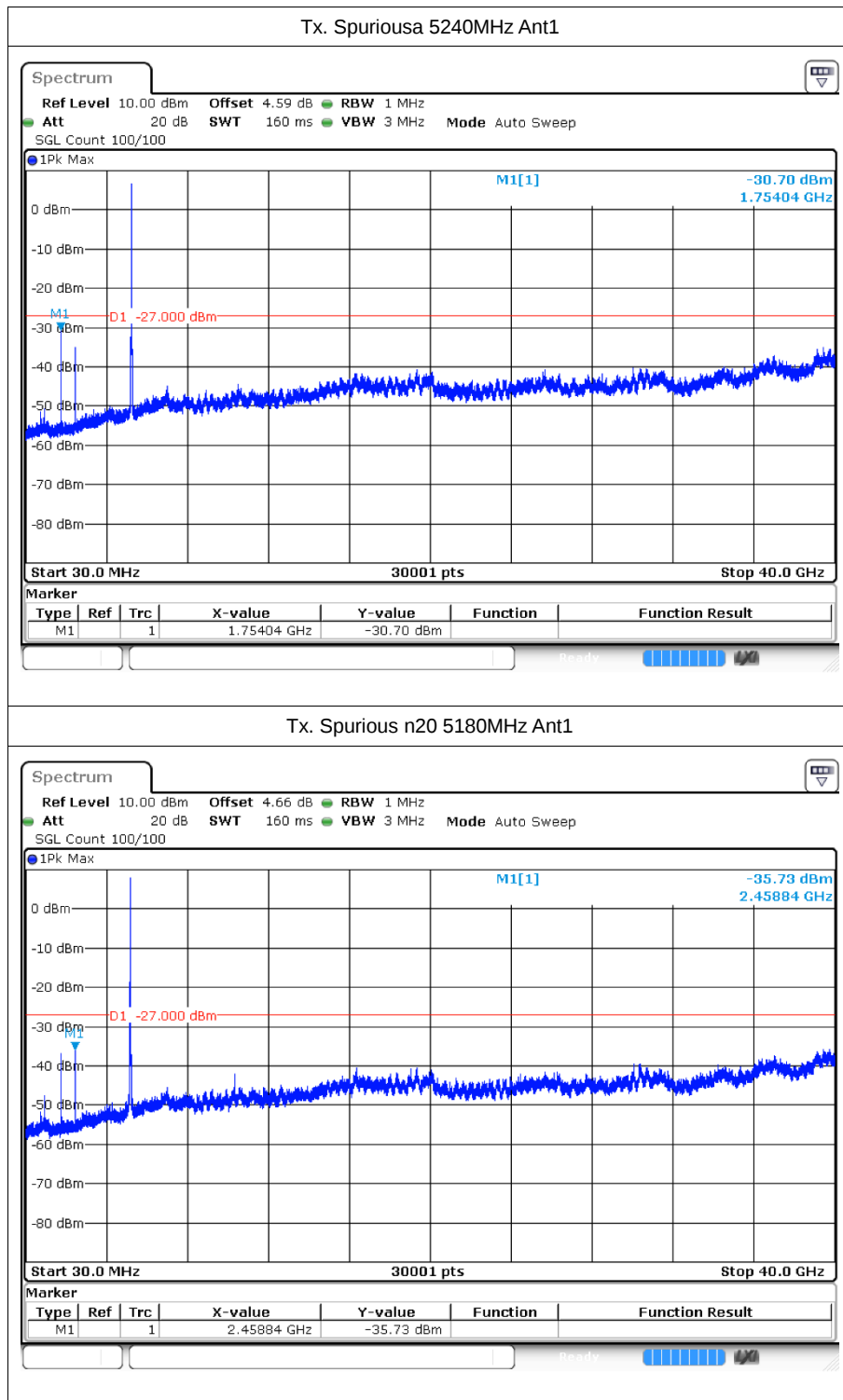
7 Conducted RF Spurious Emission

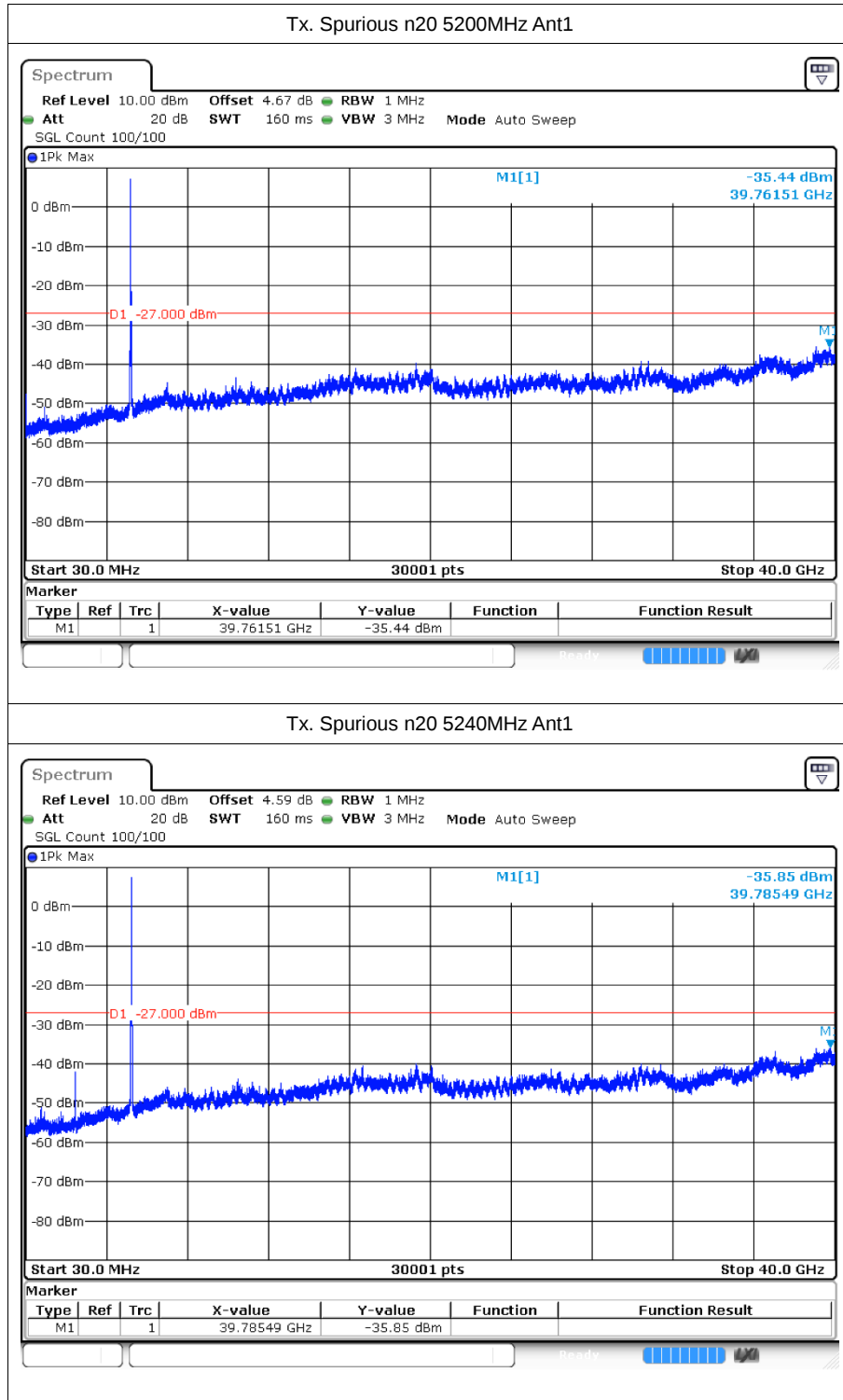
7.1 Test Result

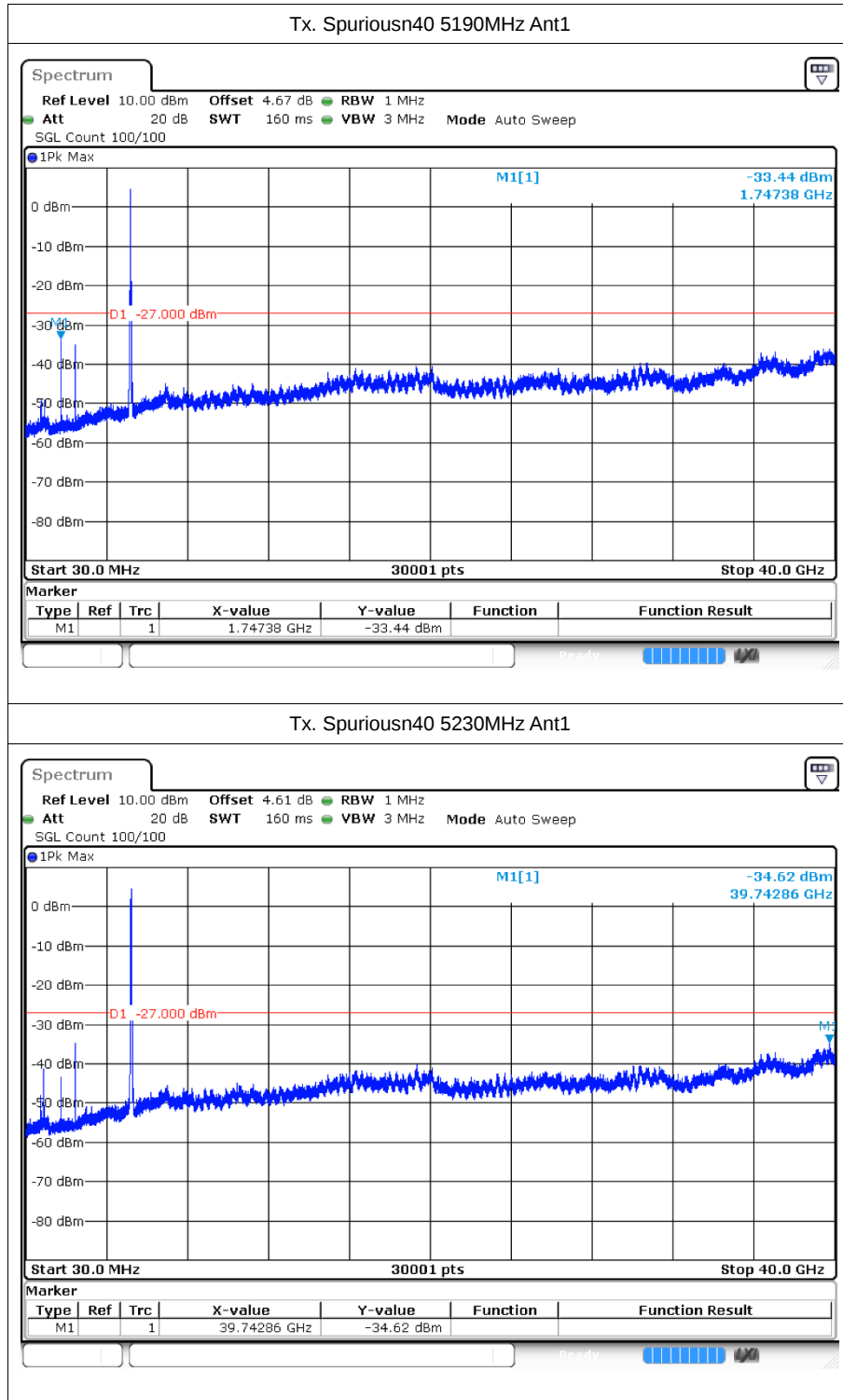
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
a	5180	Ant1	-35.39	-27	Pass
a	5200	Ant1	-35.86	-27	Pass
a	5240	Ant1	-30.69	-27	Pass
n20	5180	Ant1	-35.73	-27	Pass
n20	5200	Ant1	-35.44	-27	Pass
n20	5240	Ant1	-35.84	-27	Pass
n40	5190	Ant1	-33.44	-27	Pass
n40	5230	Ant1	-34.61	-27	Pass
ac20	5180	Ant1	-35.41	-27	Pass
ac20	5200	Ant1	-32.86	-27	Pass
ac20	5240	Ant1	-35.65	-27	Pass
ac40	5190	Ant1	-35.73	-27	Pass
ac40	5230	Ant1	-35.27	-27	Pass
ac80	5210	Ant1	-35.35	-27	Pass

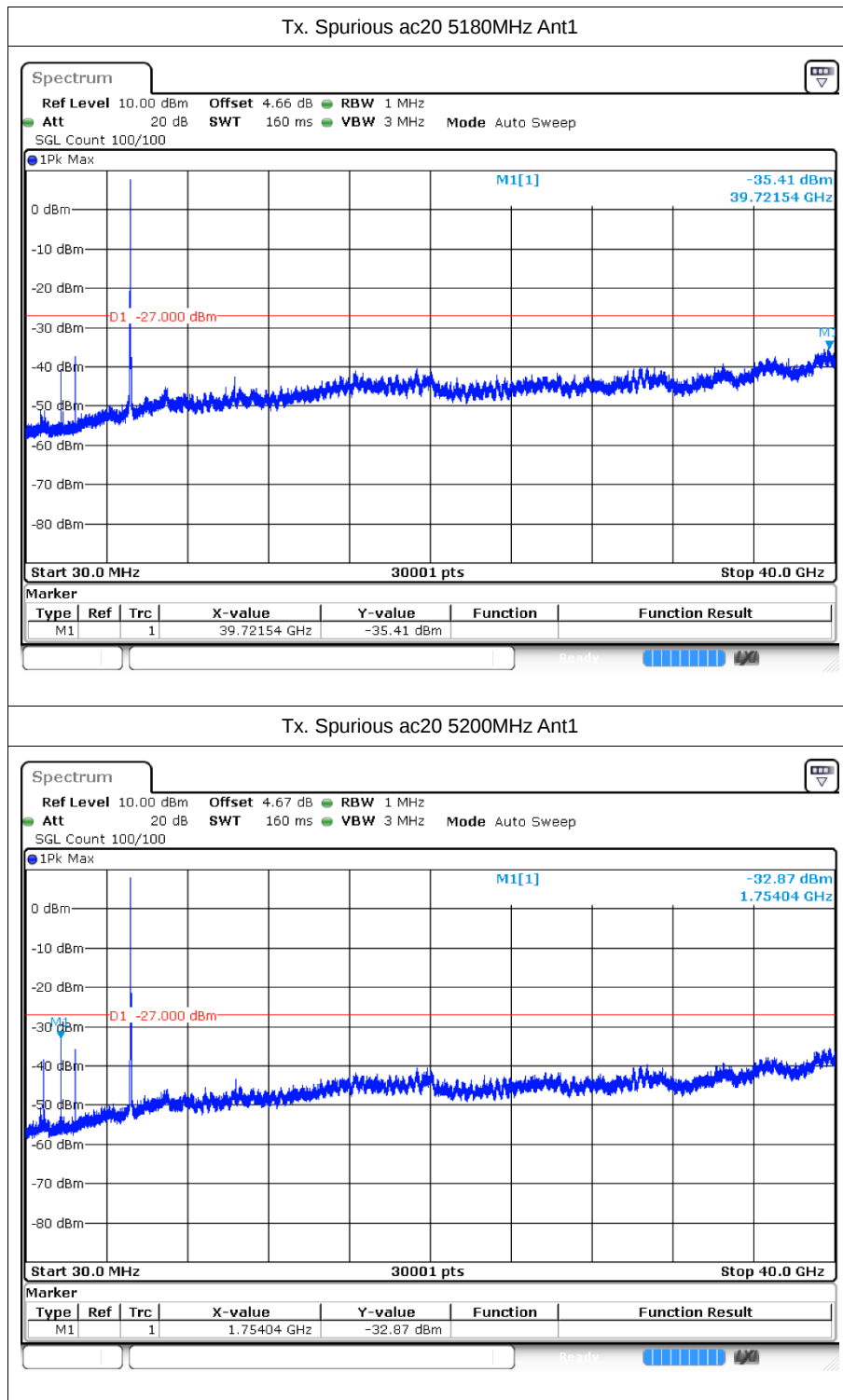
7.2 Test Graphs

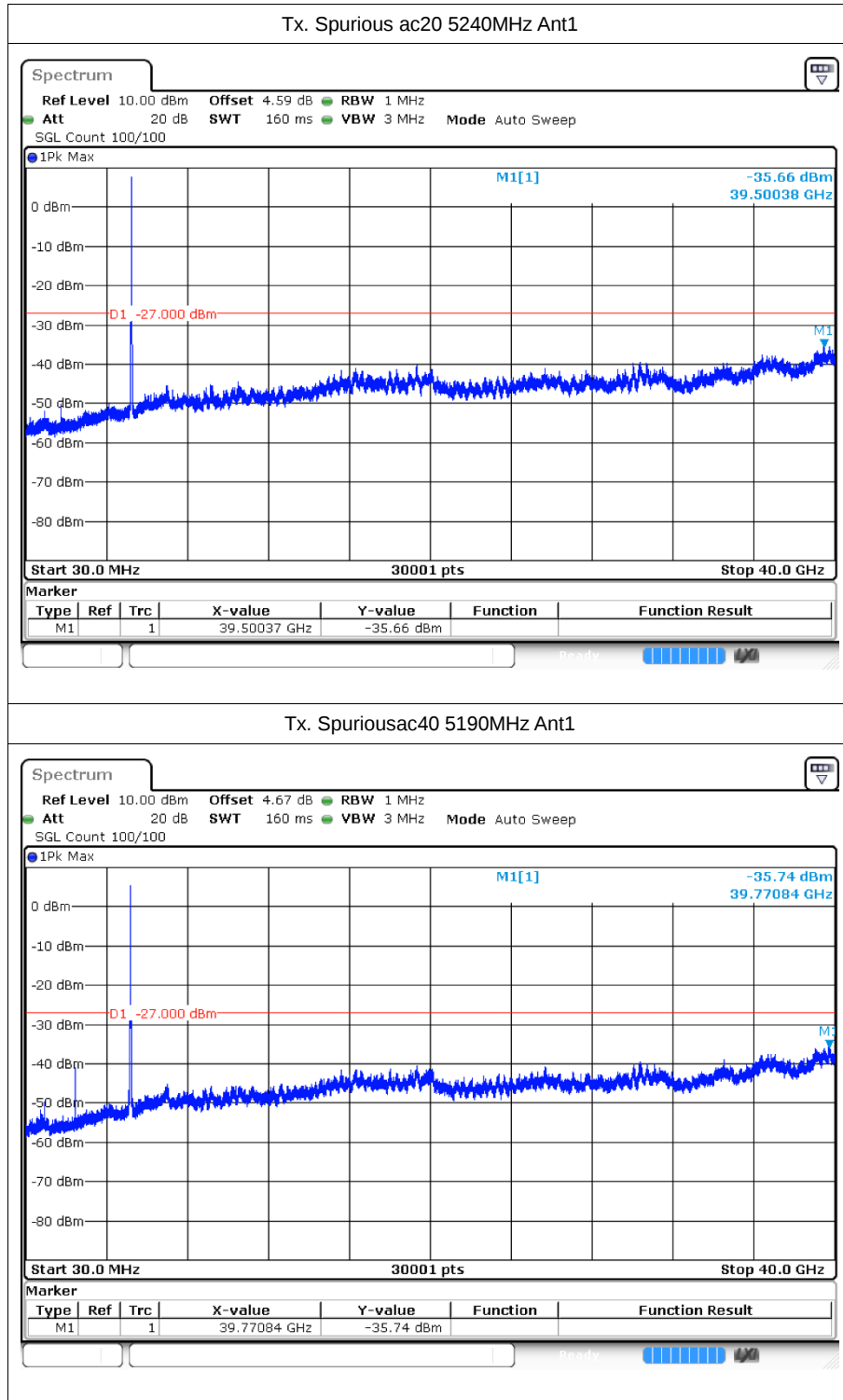


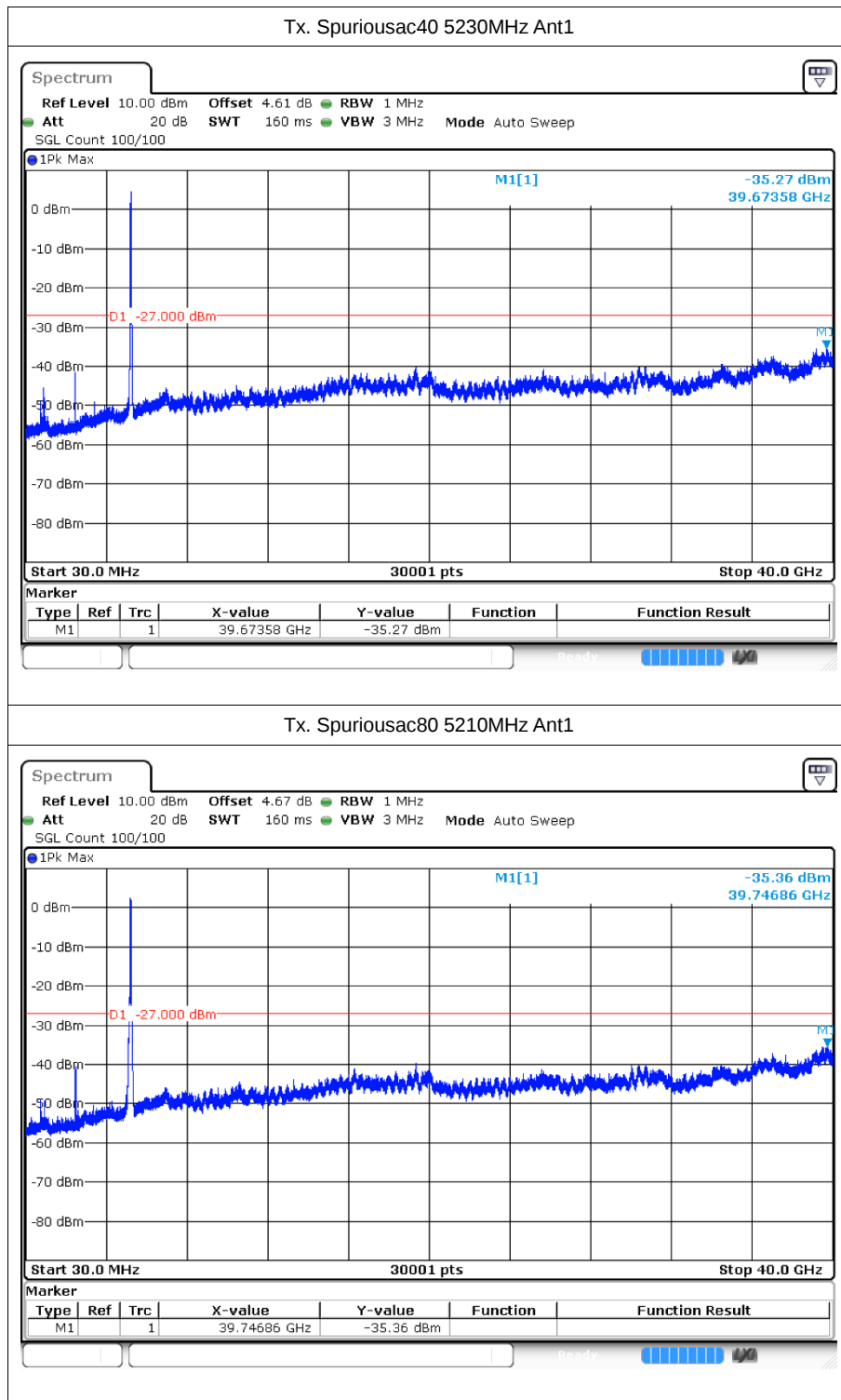












8 Restrict Band

8.1 Test Result

Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
a	5180	Ant1	4500	-44.5	2	52.73	Peak	68.2	Pass
a	5180	Ant1	4500	-54.65	2	42.58	Average	54	Pass
a	5180	Ant1	5147.5	-38.2	2	59.03	Peak	68.2	Pass
a	5180	Ant1	4962.7	-51.8	2	45.43	Average	54	Pass
a	5180	Ant1	5150	-40.56	2	56.67	Peak	68.2	Pass
a	5180	Ant1	5150	-52.55	2	44.68	Average	54	Pass
a	5240	Ant1	5350	-43.96	2	53.27	Peak	68.2	Pass
a	5240	Ant1	5350	-54.01	2	43.22	Average	54	Pass
a	5240	Ant1	5447.76	-41.25	2	55.98	Peak	68.2	Pass
a	5240	Ant1	5446.8	-51.85	2	45.38	Average	54	Pass
a	5240	Ant1	5460	-45.65	2	51.58	Peak	68.2	Pass
a	5240	Ant1	5460	-53.46	2	43.77	Average	54	Pass
n20	5180	Ant1	4500	-43.05	2	54.18	Peak	68.2	Pass
n20	5180	Ant1	4500	-54.67	2	42.56	Average	54	Pass
n20	5180	Ant1	5149.6	-36.1	2	61.13	Peak	68.2	Pass
n20	5180	Ant1	5149.6	-51.16	2	46.07	Average	54	Pass
n20	5180	Ant1	5150	-35.21	2	62.02	Peak	68.2	Pass
n20	5180	Ant1	5150	-50.97	2	46.26	Average	54	Pass
n20	5240	Ant1	5350	-44.56	2	52.67	Peak	68.2	Pass
n20	5240	Ant1	5350	-54.01	2	43.22	Average	54	Pass
n20	5240	Ant1	5448.24	-39.92	2	57.31	Peak	68.2	Pass
n20	5240	Ant1	5446.8	-51.89	2	45.34	Average	54	Pass
n20	5240	Ant1	5460	-45.24	2	51.99	Peak	68.2	Pass
n20	5240	Ant1	5460	-53.46	2	43.77	Average	54	Pass
n40	5190	Ant1	4500	-44.63	2	52.6	Peak	68.2	Pass
n40	5190	Ant1	4500	-53.71	2	43.52	Average	54	Pass
n40	5190	Ant1	5149.7	-31.57	2	65.66	Peak	68.2	Pass
n40	5190	Ant1	5149.7	-45.23	2	52	Average	54	Pass
n40	5190	Ant1	5150	-32.67	2	64.56	Peak	68.2	Pass
n40	5190	Ant1	5150	-45.02	2	52.21	Average	54	Pass
n40	5230	Ant1	5350	-43.76	2	53.47	Peak	68.2	Pass
n40	5230	Ant1	5350	-52.76	2	44.47	Average	54	Pass
n40	5230	Ant1	5448.39	-39.83	2	57.4	Peak	68.2	Pass
n40	5230	Ant1	5447.31	-50.81	2	46.42	Average	54	Pass
n40	5230	Ant1	5460	-42.98	2	54.25	Peak	68.2	Pass

n40	5230	Ant1	5460	-52.45	2	44.78	Average	54	Pass
ac20	5180	Ant1	4500	-43.15	2	54.08	Peak	68.2	Pass
ac20	5180	Ant1	4500	-54.65	2	42.58	Average	54	Pass
ac20	5180	Ant1	5148.2	-35.25	2	61.98	Peak	68.2	Pass
ac20	5180	Ant1	5149.6	-50.98	2	46.25	Average	54	Pass
ac20	5180	Ant1	5150	-34.04	2	63.19	Peak	68.2	Pass
ac20	5180	Ant1	5150	-50.8	2	46.43	Average	54	Pass
ac20	5240	Ant1	5350	-43.44	2	53.79	Peak	68.2	Pass
ac20	5240	Ant1	5350	-54.01	2	43.22	Average	54	Pass
ac20	5240	Ant1	5448.24	-40.14	2	57.09	Peak	68.2	Pass
ac20	5240	Ant1	5446.8	-51.85	2	45.38	Average	54	Pass
ac20	5240	Ant1	5460	-44.68	2	52.55	Peak	68.2	Pass
ac20	5240	Ant1	5460	-53.47	2	43.76	Average	54	Pass
ac40	5190	Ant1	4500	-43.82	2	53.41	Peak	68.2	Pass
ac40	5190	Ant1	4500	-53.66	2	43.57	Average	54	Pass
ac40	5190	Ant1	5145.32	-35.03	2	62.2	Peak	68.2	Pass
ac40	5190	Ant1	5149.7	-48.51	2	48.72	Average	54	Pass
ac40	5190	Ant1	5150	-35.72	2	61.51	Peak	68.2	Pass
ac40	5190	Ant1	5150	-48.36	2	48.87	Average	54	Pass
ac40	5230	Ant1	5350	-42.47	2	54.76	Peak	68.2	Pass
ac40	5230	Ant1	5350	-52.83	2	44.4	Average	54	Pass
ac40	5230	Ant1	5453.79	-40.47	2	56.76	Peak	68.2	Pass
ac40	5230	Ant1	5447.58	-50.7	2	46.53	Average	54	Pass
ac40	5230	Ant1	5460	-43.84	2	53.39	Peak	68.2	Pass
ac40	5230	Ant1	5460	-52.37	2	44.86	Average	54	Pass
ac80	5210	Ant1	4500	-44.93	2	52.3	Peak	68.2	Pass
ac80	5210	Ant1	4500	-52.87	2	44.36	Average	54	Pass
ac80	5210	Ant1	5145.43	-32.58	2	64.65	Peak	68.2	Pass
ac80	5210	Ant1	5149.38	-47.54	2	49.69	Average	54	Pass
ac80	5210	Ant1	5150	-35.26	2	61.97	Peak	68.2	Pass
ac80	5210	Ant1	5150	-46.17	2	51.06	Average	54	Pass

8.2 Test Graphs

