



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	5179.98	-20000	-3.86	25	Pass
20C 138V	a	5180	Ant1	5179.96	-40000	-7.72	25	Pass
-20C 120V	a	5180	Ant1	5179.98	-20000	-3.86	25	Pass
-10C 120V	a	5180	Ant1	5179.96	-40000	-7.72	25	Pass
0C 120V	a	5180	Ant1	5179.98	-20000	-3.86	25	Pass
10C 120V	a	5180	Ant1	5179.98	-20000	-3.86	25	Pass
30C 120V	a	5180	Ant1	5179.96	-40000	-7.72	25	Pass
40C 120V	a	5180	Ant1	5179.98	-20000	-3.86	25	Pass
50C 120V	a	5180	Ant1	5179.96	-40000	-7.72	25	Pass
20C 102V	a	5200	Ant1	5199.98	-20000	-3.85	25	Pass
20C 120V	a	5200	Ant1	5199.96	-40000	-7.69	25	Pass
20C 138V	a	5200	Ant1	5199.96	-40000	-7.69	25	Pass
-20C 120V	a	5200	Ant1	5199.98	-20000	-3.85	25	Pass
-10C 120V	a	5200	Ant1	5199.96	-40000	-7.69	25	Pass
0C 120V	a	5200	Ant1	5199.96	-40000	-7.69	25	Pass
10C 120V	a	5200	Ant1	5199.98	-20000	-3.85	25	Pass
30C 120V	a	5200	Ant1	5199.98	-20000	-3.85	25	Pass
40C 120V	a	5200	Ant1	5199.96	-40000	-7.69	25	Pass
20C 102V	a	5200	Ant1	5199.98	-20000	-3.85	25	Pass
20C 102V	a	5240	Ant1	5239.98	-20000	-3.82	25	Pass
20C 120V	a	5240	Ant1	5239.96	-40000	-7.63	25	Pass
20C 138V	a	5240	Ant1	5239.98	-20000	-3.82	25	Pass
-20C 120V	a	5240	Ant1	5239.98	-20000	-3.82	25	Pass
-10C 120V	a	5240	Ant1	5240	0	0	25	Pass
0C 120V	a	5240	Ant1	5239.98	-20000	-3.82	25	Pass
10C 120V	a	5240	Ant1	5239.96	-40000	-7.63	25	Pass
30C 120V	a	5240	Ant1	5239.98	-20000	-3.82	25	Pass
40C 120V	a	5240	Ant1	5239.96	-40000	-7.63	25	Pass
50C 120V	a	5240	Ant1	5240	0	0	25	Pass
20C 102V	a	5260	Ant1	5259.98	-20000	-3.8	25	Pass
20C 120V	a	5260	Ant1	5259.96	-40000	-7.6	25	Pass
20C 138V	a	5260	Ant1	5259.98	-20000	-3.8	25	Pass
-20C 120V	a	5260	Ant1	5259.98	-20000	-3.8	25	Pass
-10C 120V	a	5260	Ant1	5259.98	-20000	-3.8	25	Pass
0C 120V	a	5260	Ant1	5259.96	-40000	-7.6	25	Pass



10C 120V	a	5260	Ant1	5259.98	-20000	-3.8	25	Pass
30C 120V	a	5260	Ant1	5259.98	-20000	-3.8	25	Pass
40C 120V	a	5260	Ant1	5259.94	-60000	-11.41	25	Pass
50C 120V	a	5260	Ant1	5259.98	-20000	-3.8	25	Pass
20C 102V	a	5280	Ant1	5279.98	-20000	-3.79	25	Pass
20C 120V	a	5280	Ant1	5279.96	-40000	-7.58	25	Pass
20C 138V	a	5280	Ant1	5279.98	-20000	-3.79	25	Pass
-20C 120V	a	5280	Ant1	5279.98	-20000	-3.79	25	Pass
-10C 120V	a	5280	Ant1	5279.96	-40000	-7.58	25	Pass
0C 120V	a	5280	Ant1	5279.98	-20000	-3.79	25	Pass
10C 120V	a	5280	Ant1	5279.98	-20000	-3.79	25	Pass
30C 120V	a	5280	Ant1	5279.98	-20000	-3.79	25	Pass
40C 120V	a	5280	Ant1	5279.98	-20000	-3.79	25	Pass
50C 120V	a	5280	Ant1	5279.98	-20000	-3.79	25	Pass
20C 102V	a	5320	Ant1	5319.98	-20000	-3.76	25	Pass
20C 120V	a	5320	Ant1	5319.98	-20000	-3.76	25	Pass
20C 138V	a	5320	Ant1	5319.96	-40000	-7.52	25	Pass
-20C 120V	a	5320	Ant1	5319.96	-40000	-7.52	25	Pass
-10C 120V	a	5320	Ant1	5319.96	-40000	-7.52	25	Pass
0C 120V	a	5320	Ant1	5319.98	-20000	-3.76	25	Pass
10C 120V	a	5320	Ant1	5319.96	-40000	-7.52	25	Pass
30C 120V	a	5320	Ant1	5319.96	-40000	-7.52	25	Pass
40C 120V	a	5320	Ant1	5320	0	0	25	Pass
50C 120V	a	5320	Ant1	5319.96	-40000	-7.52	25	Pass
20C 102V	a	5500	Ant1	5499.96	-40000	-7.27	25	Pass
20C 120V	a	5500	Ant1	5499.96	-40000	-7.27	25	Pass
20C 138V	a	5500	Ant1	5499.98	-20000	-3.64	25	Pass
-20C 120V	a	5500	Ant1	5499.96	-40000	-7.27	25	Pass
-10C 120V	a	5500	Ant1	5499.98	-20000	-3.64	25	Pass
0C 120V	a	5500	Ant1	5499.96	-40000	-7.27	25	Pass
10C 120V	a	5500	Ant1	5499.98	-20000	-3.64	25	Pass
30C 120V	a	5500	Ant1	5499.96	-40000	-7.27	25	Pass
40C 120V	a	5500	Ant1	5499.96	-40000	-7.27	25	Pass
50C 120V	a	5500	Ant1	5499.96	-40000	-7.27	25	Pass
20C 102V	a	5600	Ant1	5599.98	-20000	-3.57	25	Pass
20C 120V	a	5600	Ant1	5599.98	-20000	-3.57	25	Pass
20C 138V	a	5600	Ant1	5599.96	-40000	-7.14	25	Pass
-20C 120V	a	5600	Ant1	5599.96	-40000	-7.14	25	Pass
-10C 120V	a	5600	Ant1	5599.98	-20000	-3.57	25	Pass
0C 120V	a	5600	Ant1	5599.96	-40000	-7.14	25	Pass
10C 120V	a	5600	Ant1	5599.98	-20000	-3.57	25	Pass
30C 120V	a	5600	Ant1	5599.98	-20000	-3.57	25	Pass
40C 120V	a	5600	Ant1	5599.96	-40000	-7.14	25	Pass



50C 120V	a	5600	Ant1	5599.96	-40000	-7.14	25	Pass
20C 102V	a	5700	Ant1	5699.98	-20000	-3.51	25	Pass
20C 120V	a	5700	Ant1	5699.96	-40000	-7.02	25	Pass
20C 138V	a	5700	Ant1	5699.98	-20000	-3.51	25	Pass
-20C 120V	a	5700	Ant1	5699.96	-40000	-7.02	25	Pass
-10C 120V	a	5700	Ant1	5699.96	-40000	-7.02	25	Pass
0C 120V	a	5700	Ant1	5699.98	-20000	-3.51	25	Pass
10C 120V	a	5700	Ant1	5699.96	-40000	-7.02	25	Pass
30C 120V	a	5700	Ant1	5699.98	-20000	-3.51	25	Pass
40C 120V	a	5700	Ant1	5699.98	-20000	-3.51	25	Pass
50C 120V	a	5700	Ant1	5699.98	-20000	-3.51	25	Pass
20C 102V	n20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
20C 120V	n20	5180	Ant1	5179.96	-40000	-7.72	25	Pass
20C 138V	n20	5180	Ant1	5179.98	-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	5179.98	-20000	-3.86	25	Pass
30C 120V	n20	5180	Ant1	5179.96	-40000	-7.72	25	Pass
40C 120V	n20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
50C 120V	n20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
20C 102V	n20	5200	Ant1	5199.96	-40000	-7.69	25	Pass
20C 120V	n20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
20C 138V	n20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
-20C 120V	n20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
-10C 120V	n20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
0C 120V	n20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
10C 120V	n20	5200	Ant1	5200	0	0	25	Pass
30C 120V	n20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
40C 120V	n20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
50C 120V	n20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
20C 102V	n20	5240	Ant1	5239.96	-40000	-7.63	25	Pass
20C 120V	n20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
20C 138V	n20	5240	Ant1	5239.98	-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	5239.96	-40000	-7.63	25	Pass
10C 120V	n20	5240	Ant1	5239.96	-40000	-7.63	25	Pass
30C 120V	n20	5240	Ant1	5239.96	-40000	-7.63	25	Pass
40C 120V	n20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
50C 120V	n20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
20C 102V	n20	5260	Ant1	5259.96	-40000	-7.6	25	Pass
20C 120V	n20	5260	Ant1	5259.98	-20000	-3.8	25	Pass



20C 138V	n20	5260	Ant1	5259.98	-20000	-3.8	25	Pass
-20C 120V	n20	5260	Ant1	5259.98	-20000	-3.8	25	Pass
-10C 120V	n20	5260	Ant1	5259.98	-20000	-3.8	25	Pass
0C 120V	n20	5260	Ant1	5259.96	-40000	-7.6	25	Pass
10C 120V	n20	5260	Ant1	5259.98	-20000	-3.8	25	Pass
30C 120V	n20	5260	Ant1	5259.98	-20000	-3.8	25	Pass
40C 120V	n20	5260	Ant1	5259.96	-40000	-7.6	25	Pass
50C 120V	n20	5260	Ant1	5259.98	-20000	-3.8	25	Pass
20C 102V	n20	5280	Ant1	5279.98	-20000	-3.79	25	Pass
20C 120V	n20	5280	Ant1	5279.96	-40000	-7.58	25	Pass
20C 138V	n20	5280	Ant1	5279.98	-20000	-3.79	25	Pass
-20C 120V	n20	5280	Ant1	5279.98	-20000	-3.79	25	Pass
-10C 120V	n20	5280	Ant1	5279.98	-20000	-3.79	25	Pass
0C 120V	n20	5280	Ant1	5280	0	0	25	Pass
10C 120V	n20	5280	Ant1	5279.98	-20000	-3.79	25	Pass
30C 120V	n20	5280	Ant1	5279.96	-40000	-7.58	25	Pass
40C 120V	n20	5280	Ant1	5279.98	-20000	-3.79	25	Pass
50C 120V	n20	5280	Ant1	5279.98	-20000	-3.79	25	Pass
20C 102V	n20	5320	Ant1	5319.98	-20000	-3.76	25	Pass
20C 120V	n20	5320	Ant1	5319.96	-40000	-7.52	25	Pass
20C 138V	n20	5320	Ant1	5319.98	-20000	-3.76	25	Pass
-20C 120V	n20	5320	Ant1	5319.98	-20000	-3.76	25	Pass
-10C 120V	n20	5320	Ant1	5319.98	-20000	-3.76	25	Pass
0C 120V	n20	5320	Ant1	5319.98	-20000	-3.76	25	Pass
10C 120V	n20	5320	Ant1	5319.98	-20000	-3.76	25	Pass
30C 120V	n20	5320	Ant1	5319.96	-40000	-7.52	25	Pass
40C 120V	n20	5320	Ant1	5319.98	-20000	-3.76	25	Pass
50C 120V	n20	5320	Ant1	5319.98	-20000	-3.76	25	Pass
20C 102V	n20	5500	Ant1	5499.98	-20000	-3.64	25	Pass
20C 120V	n20	5500	Ant1	5499.96	-40000	-7.27	25	Pass
20C 138V	n20	5500	Ant1	5500	0	0	25	Pass
-20C 120V	n20	5500	Ant1	5499.98	-20000	-3.64	25	Pass
-10C 120V	n20	5500	Ant1	5499.96	-40000	-7.27	25	Pass
0C 120V	n20	5500	Ant1	5499.98	-20000	-3.64	25	Pass
10C 120V	n20	5500	Ant1	5499.98	-20000	-3.64	25	Pass
30C 120V	n20	5500	Ant1	5499.98	-20000	-3.64	25	Pass
40C 120V	n20	5500	Ant1	5499.98	-20000	-3.64	25	Pass
50C 120V	n20	5500	Ant1	5499.96	-40000	-7.27	25	Pass
20C 102V	n20	5600	Ant1	5599.98	-20000	-3.57	25	Pass
20C 120V	n20	5600	Ant1	5599.96	-40000	-7.14	25	Pass
20C 138V	n20	5600	Ant1	5599.98	-40000	-7.14	25	Pass
-20C 120V	n20	5600	Ant1	5599.98	-20000	-3.57	25	Pass
-10C 120V	n20	5600	Ant1	5599.98	-20000	-3.57	25	Pass



0C 120V	n20	5600	Ant1	5599.94	-60000	-10.71	25	Pass
10C 120V	n20	5600	Ant1	5599.96	-40000	-7.14	25	Pass
30C 120V	n20	5600	Ant1	5599.98	-20000	-3.57	25	Pass
40C 120V	n20	5600	Ant1	5599.98	-20000	-3.57	25	Pass
50C 120V	n20	5600	Ant1	5600	0	0	25	Pass
20C 102V	n20	5700	Ant1	5699.98	-20000	-3.51	25	Pass
20C 120V	n20	5700	Ant1	5699.98	-20000	-3.51	25	Pass
20C 138V	n20	5700	Ant1	5699.98	-20000	-3.51	25	Pass
-20C 120V	n20	5700	Ant1	5699.98	-20000	-3.51	25	Pass
-10C 120V	n20	5700	Ant1	5699.98	-20000	-3.51	25	Pass
0C 120V	n20	5700	Ant1	5699.98	-20000	-3.51	25	Pass
10C 120V	n20	5700	Ant1	5699.96	-40000	-7.02	25	Pass
30C 120V	n20	5700	Ant1	5699.98	-20000	-3.51	25	Pass
40C 120V	n20	5700	Ant1	5699.96	-40000	-7.02	25	Pass
50C 120V	n20	5700	Ant1	5699.98	-20000	-3.51	25	Pass
20C 102V	n40	5190	Ant1	5190	0	0	25	Pass
20C 120V	n40	5190	Ant1	5190	0	0	25	Pass
20C 138V	n40	5190	Ant1	5190	0	0	25	Pass
-20C 120V	n40	5190	Ant1	5190	0	0	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	5190	0	0	25	Pass
40C 120V	n40	5190	Ant1	5190	0	0	25	Pass
50C 120V	n40	5190	Ant1	5189.96	-40000	-7.71	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	5229.96	-40000	-7.65	25	Pass
40C 120V	n40	5230	Ant1	5230	0	0	25	Pass
50C 120V	n40	5230	Ant1	5229.96	-40000	-7.65	25	Pass
20C 102V	n40	5270	Ant1	5270	0	0	25	Pass
20C 120V	n40	5270	Ant1	5270	0	0	25	Pass
20C 138V	n40	5270	Ant1	5270	0	0	25	Pass
-20C 120V	n40	5270	Ant1	5269.96	-40000	-7.59	25	Pass
-10C 120V	n40	5270	Ant1	5270	0	0	25	Pass
0C 120V	n40	5270	Ant1	5270	0	0	25	Pass
10C 120V	n40	5270	Ant1	5270	0	0	25	Pass
30C 120V	n40	5270	Ant1	5269.96	-40000	-7.59	25	Pass



40C 120V	n40	5270	Ant1	5270	0	0	25	Pass
50C 120V	n40	5270	Ant1	5269.96	-40000	-7.59	25	Pass
20C 102V	n40	5310	Ant1	5310	0	0	25	Pass
20C 120V	n40	5310	Ant1	5310	0	0	25	Pass
20C 138V	n40	5310	Ant1	5310	0	0	25	Pass
-20C 120V	n40	5310	Ant1	5310	0	0	25	Pass
-10C 120V	n40	5310	Ant1	5309.96	-40000	-7.53	25	Pass
0C 120V	n40	5310	Ant1	5310	0	0	25	Pass
10C 120V	n40	5310	Ant1	5309.96	-40000	-7.53	25	Pass
30C 120V	n40	5310	Ant1	5309.96	-40000	-7.53	25	Pass
40C 120V	n40	5310	Ant1	5309.96	-40000	-7.53	25	Pass
50C 120V	n40	5310	Ant1	5310	0	0	25	Pass
20C 102V	n40	5510	Ant1	5510	0	0	25	Pass
20C 120V	n40	5510	Ant1	5510	0	0	25	Pass
20C 138V	n40	5510	Ant1	5509.96	-40000	-7.26	25	Pass
-20C 120V	n40	5510	Ant1	5510	0	0	25	Pass
-10C 120V	n40	5510	Ant1	5510	0	0	25	Pass
0C 120V	n40	5510	Ant1	5509.96	-40000	-7.26	25	Pass
10C 120V	n40	5510	Ant1	5510	0	0	25	Pass
30C 120V	n40	5510	Ant1	5510	0	0	25	Pass
40C 120V	n40	5510	Ant1	5509.96	-40000	-7.26	25	Pass
50C 120V	n40	5510	Ant1	5510	0	0	25	Pass
20C 102V	n40	5670	Ant1	5669.96	-40000	-7.05	25	Pass
20C 120V	n40	5670	Ant1	5669.96	-40000	-7.05	25	Pass
20C 138V	n40	5670	Ant1	5669.96	-40000	-7.05	25	Pass
-20C 120V	n40	5670	Ant1	5669.96	-40000	-7.05	25	Pass
-10C 120V	n40	5670	Ant1	5669.96	-40000	-7.05	25	Pass
0C 120V	n40	5670	Ant1	5670	0	0	25	Pass
10C 120V	n40	5670	Ant1	5669.96	-40000	-7.05	25	Pass
30C 120V	n40	5670	Ant1	5670	0	0	25	Pass
40C 120V	n40	5670	Ant1	5670	0	0	25	Pass
50C 120V	n40	5670	Ant1	5669.96	-40000	-7.05	25	Pass
20C 102V	ac20	5180	Ant1	5179.96	-40000	-7.72	25	Pass
20C 120V	ac20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
20C 138V	ac20	5180	Ant1	5179.96	-40000	-7.72	25	Pass
-20C 120V	ac20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
-10C 120V	ac20	5180	Ant1	5179.96	-40000	-7.72	25	Pass
0C 120V	ac20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
10C 120V	ac20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
30C 120V	ac20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
40C 120V	ac20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
50C 120V	ac20	5180	Ant1	5179.96	-40000	-7.72	25	Pass
20C 102V	ac20	5200	Ant1	5199.96	-40000	-7.69	25	Pass



20C 120V	ac20	5200	Ant1	5199.96	-40000	-7.69	25	Pass
20C 138V	ac20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
-20C 120V	ac20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
-10C 120V	ac20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
0C 120V	ac20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
10C 120V	ac20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
30C 120V	ac20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
40C 120V	ac20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
50C 120V	ac20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
20C 102V	ac20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
20C 120V	ac20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
20C 138V	ac20	5240	Ant1	5239.96	-40000	-7.63	25	Pass
-20C 120V	ac20	5240	Ant1	5239.96	-40000	-7.63	25	Pass
-10C 120V	ac20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
0C 120V	ac20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
10C 120V	ac20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
30C 120V	ac20	5240	Ant1	5240	0	0	25	Pass
40C 120V	ac20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
50C 120V	ac20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
20C 102V	ac20	5260	Ant1	5259.96	-40000	-7.6	25	Pass
20C 120V	ac20	5260	Ant1	5259.96	-40000	-7.6	25	Pass
20C 138V	ac20	5260	Ant1	5259.96	-40000	-7.6	25	Pass
-20C 120V	ac20	5260	Ant1	5259.98	-20000	-3.8	25	Pass
-10C 120V	ac20	5260	Ant1	5259.98	-20000	-3.8	25	Pass
0C 120V	ac20	5260	Ant1	5259.98	-20000	-3.8	25	Pass
10C 120V	ac20	5260	Ant1	5259.96	-40000	-7.6	25	Pass
30C 120V	ac20	5260	Ant1	5259.98	-20000	-3.8	25	Pass
40C 120V	ac20	5260	Ant1	5259.96	-40000	-7.6	25	Pass
50C 120V	ac20	5260	Ant1	5259.98	-20000	-3.8	25	Pass
20C 102V	ac20	5280	Ant1	5279.98	-20000	-3.79	25	Pass
20C 120V	ac20	5280	Ant1	5279.98	-20000	-3.79	25	Pass
20C 138V	ac20	5280	Ant1	5279.98	-20000	-3.79	25	Pass
-20C 120V	ac20	5280	Ant1	5279.98	-20000	-3.79	25	Pass
-10C 120V	ac20	5280	Ant1	5279.96	-40000	-7.58	25	Pass
0C 120V	ac20	5280	Ant1	5279.98	-20000	-3.79	25	Pass
10C 120V	ac20	5280	Ant1	5280	0	0	25	Pass
30C 120V	ac20	5280	Ant1	5279.98	-20000	-3.79	25	Pass
40C 120V	ac20	5280	Ant1	5279.98	-20000	-3.79	25	Pass
50C 120V	ac20	5280	Ant1	5279.96	-40000	-7.58	25	Pass
20C 102V	ac20	5320	Ant1	5319.96	-40000	-7.52	25	Pass
20C 120V	ac20	5320	Ant1	5319.98	-20000	-3.76	25	Pass
20C 138V	ac20	5320	Ant1	5319.98	-20000	-3.76	25	Pass
-20C 120V	ac20	5320	Ant1	5319.96	-40000	-7.52	25	Pass



-10C 120V	ac20	5320	Ant1	5319.98	-20000	-3.76	25	Pass
0C 120V	ac20	5320	Ant1	5319.96	-40000	-7.52	25	Pass
10C 120V	ac20	5320	Ant1	5319.96	-40000	-7.52	25	Pass
30C 120V	ac20	5320	Ant1	5319.96	-40000	-7.52	25	Pass
40C 120V	ac20	5320	Ant1	5319.98	-20000	-3.76	25	Pass
50C 120V	ac20	5320	Ant1	5319.98	-20000	-3.76	25	Pass
20C 102V	ac20	5500	Ant1	5499.96	-40000	-7.27	25	Pass
20C 120V	ac20	5500	Ant1	5499.96	-40000	-7.27	25	Pass
20C 138V	ac20	5500	Ant1	5499.98	-20000	-3.64	25	Pass
-20C 120V	ac20	5500	Ant1	5499.98	-20000	-3.64	25	Pass
-10C 120V	ac20	5500	Ant1	5499.98	-20000	-3.64	25	Pass
0C 120V	ac20	5500	Ant1	5499.98	-20000	-3.64	25	Pass
10C 120V	ac20	5500	Ant1	5499.96	-40000	-7.27	25	Pass
30C 120V	ac20	5500	Ant1	5499.98	-20000	-3.64	25	Pass
40C 120V	ac20	5500	Ant1	5499.96	-40000	-7.27	25	Pass
50C 120V	ac20	5500	Ant1	5499.96	-40000	-7.27	25	Pass
20C 102V	ac20	5600	Ant1	5599.98	-20000	-3.57	25	Pass
20C 120V	ac20	5600	Ant1	5599.98	-20000	-3.57	25	Pass
20C 138V	ac20	5600	Ant1	5599.98	-20000	-3.57	25	Pass
-20C 120V	ac20	5600	Ant1	5599.96	-40000	-7.14	25	Pass
-10C 120V	ac20	5600	Ant1	5599.96	-40000	-7.14	25	Pass
0C 120V	ac20	5600	Ant1	5599.98	-20000	-3.57	25	Pass
10C 120V	ac20	5600	Ant1	5599.98	-20000	-3.57	25	Pass
30C 120V	ac20	5600	Ant1	5599.96	-40000	-7.14	25	Pass
40C 120V	ac20	5600	Ant1	5599.98	-20000	-3.57	25	Pass
50C 120V	ac20	5600	Ant1	5599.98	-20000	-3.57	25	Pass
20C 102V	ac20	5700	Ant1	5699.98	-20000	-3.51	25	Pass
20C 120V	ac20	5700	Ant1	5699.98	-20000	-3.51	25	Pass
20C 138V	ac20	5700	Ant1	5699.96	-40000	-7.02	25	Pass
-20C 120V	ac20	5700	Ant1	5699.96	-40000	-7.02	25	Pass
-10C 120V	ac20	5700	Ant1	5699.98	-20000	-3.51	25	Pass
0C 120V	ac20	5700	Ant1	5699.98	-20000	-3.51	25	Pass
10C 120V	ac20	5700	Ant1	5699.98	-20000	-3.51	25	Pass
30C 120V	ac20	5700	Ant1	5699.98	-20000	-3.51	25	Pass
40C 120V	ac20	5700	Ant1	5699.96	-40000	-7.02	25	Pass
50C 120V	ac20	5700	Ant1	5699.96	-40000	-7.02	25	Pass
20C 102V	ac40	5190	Ant1	5190	0	0	25	Pass
20C 120V	ac40	5190	Ant1	5190	0	0	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	5190	0	0	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	5190	0	0	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	5230	0	0	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	5230	0	0	25	Pass
30C 120V	ac40	5230	Ant1	5230	0	0	25	Pass
40C 120V	ac40	5230	Ant1	5230	0	0	25	Pass
50C 120V	ac40	5230	Ant1	5230	0	0	25	Pass
20C 102V	ac40	5270	Ant1	5270	0	0	25	Pass
20C 120V	ac40	5270	Ant1	5269.96	-40000	-7.59	25	Pass
20C 138V	ac40	5270	Ant1	5270	0	0	25	Pass
-20C 120V	ac40	5270	Ant1	5270	0	0	25	Pass
-10C 120V	ac40	5270	Ant1	5270	0	0	25	Pass
0C 120V	ac40	5270	Ant1	5269.96	-40000	-7.59	25	Pass
10C 120V	ac40	5270	Ant1	5270	0	0	25	Pass
30C 120V	ac40	5270	Ant1	5269.96	-40000	-7.59	25	Pass
40C 120V	ac40	5270	Ant1	5269.96	-40000	-7.59	25	Pass
50C 120V	ac40	5270	Ant1	5269.92	-80000	-15.18	25	Pass
20C 102V	ac40	5310	Ant1	5309.96	-40000	-7.53	25	Pass
20C 120V	ac40	5310	Ant1	5310	0	0	25	Pass
20C 138V	ac40	5310	Ant1	5309.96	-40000	-7.53	25	Pass
-20C 120V	ac40	5310	Ant1	5309.92	-80000	-15.07	25	Pass
-10C 120V	ac40	5310	Ant1	5310	0	0	25	Pass
0C 120V	ac40	5310	Ant1	5310	0	0	25	Pass
10C 120V	ac40	5310	Ant1	5309.92	-80000	-15.07	25	Pass
30C 120V	ac40	5310	Ant1	5310	0	0	25	Pass
40C 120V	ac40	5310	Ant1	5310	0	0	25	Pass
50C 120V	ac40	5310	Ant1	5309.96	-40000	-7.53	25	Pass
20C 102V	ac40	5510	Ant1	5510	0	0	25	Pass
20C 120V	ac40	5510	Ant1	5510	0	0	25	Pass
20C 138V	ac40	5510	Ant1	5510	0	0	25	Pass
-20C 120V	ac40	5510	Ant1	5509.96	-40000	-7.26	25	Pass
-10C 120V	ac40	5510	Ant1	5510	0	0	25	Pass
0C 120V	ac40	5510	Ant1	5510	0	0	25	Pass
10C 120V	ac40	5510	Ant1	5509.96	-40000	-7.26	25	Pass
30C 120V	ac40	5510	Ant1	5509.96	-40000	-7.26	25	Pass
40C 120V	ac40	5510	Ant1	5510	0	0	25	Pass
50C 120V	ac40	5510	Ant1	5509.96	-40000	-7.26	25	Pass



20C 102V	ac40	5670	Ant1	5670	0	0	25	Pass
20C 120V	ac40	5670	Ant1	5669.96	-40000	-7.05	25	Pass
20C 138V	ac40	5670	Ant1	5669.96	-40000	-7.05	25	Pass
-20C 120V	ac40	5670	Ant1	5669.96	-40000	-7.05	25	Pass
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0C 120V	ac40	5670	Ant1	5670	0	0	25	Pass
10C 120V	ac40	5670	Ant1	5670	0	0	25	Pass
30C 120V	ac40	5670	Ant1	5670	0	0	25	Pass
40C 120V	ac40	5670	Ant1	5669.96	-40000	-7.05	25	Pass
50C 120V	ac40	5670	Ant1	5670	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	5209.92	-80000	-15.36	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
20C 102V	ac80	5290	Ant1	5290	0	0	25	Pass
20C 120V	ac80	5290	Ant1	5290	0	0	25	Pass
20C 138V	ac80	5290	Ant1	5290	0	0	25	Pass
-20C 120V	ac80	5290	Ant1	5290	0	0	25	Pass
-10C 120V	ac80	5290	Ant1	5290	0	0	25	Pass
0C 120V	ac80	5290	Ant1	5290	0	0	25	Pass
10C 120V	ac80	5290	Ant1	5290	0	0	25	Pass
30C 120V	ac80	5290	Ant1	5290	0	0	25	Pass
40C 120V	ac80	5290	Ant1	5290	0	0	25	Pass
50C 120V	ac80	5290	Ant1	5290	0	0	25	Pass
20C 102V	ac80	5530	Ant1	5530	0	0	25	Pass
20C 120V	ac80	5530	Ant1	5529.92	-80000	-14.47	25	Pass
20C 138V	ac80	5530	Ant1	5530	0	0	25	Pass
-20C 120V	ac80	5530	Ant1	5529.92	-80000	-14.47	25	Pass
-10C 120V	ac80	5530	Ant1	5529.92	-80000	-14.47	25	Pass
0C 120V	ac80	5530	Ant1	5530	0	0	25	Pass
10C 120V	ac80	5530	Ant1	5530	0	0	25	Pass
30C 120V	ac80	5530	Ant1	5530	0	0	25	Pass
40C 120V	ac80	5530	Ant1	5530	0	0	25	Pass
50C 120V	ac80	5530	Ant1	5530	0	0	25	Pass
20C 102V	ac80	5610	Ant1	5610	0	0	25	Pass
20C 120V	ac80	5610	Ant1	5610	0	0	25	Pass
20C 138V	ac80	5610	Ant1	5610	0	0	25	Pass



-20C 120V	ac80	5610	Ant1	5610	0	0	25	Pass
-10C 120V	ac80	5610	Ant1	5610	0	0	25	Pass
0C 120V	ac80	5610	Ant1	5609.92	-80000	-14.26	25	Pass
10C 120V	ac80	5610	Ant1	5610	0	0	25	Pass
30C 120V	ac80	5610	Ant1	5609.92	-80000	-14.26	25	Pass
40C 120V	ac80	5610	Ant1	5610	0	0	25	Pass
50C 120V	ac80	5610	Ant1	5610	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	-34.39	-27	Pass
a	5200	Ant1	-34.19	-27	Pass
a	5240	Ant1	-33.19	-27	Pass
a	5260	Ant1	-34.19	-27	Pass
a	5280	Ant1	-33.71	-27	Pass
a	5320	Ant1	-33.08	-27	Pass
a	5500	Ant1	-34.05	-27	Pass
a	5600	Ant1	-34.17	-27	Pass
a	5700	Ant1	-33.82	-27	Pass
n20	5180	Ant1	-33.88	-27	Pass
n20	5200	Ant1	-33.7	-27	Pass
n20	5240	Ant1	-34.14	-27	Pass
n20	5260	Ant1	-33.58	-27	Pass
n20	5280	Ant1	-34.15	-27	Pass
n20	5320	Ant1	-33.82	-27	Pass
n20	5500	Ant1	-33.97	-27	Pass
n20	5600	Ant1	-33.46	-27	Pass
n20	5700	Ant1	-33.58	-27	Pass
n40	5190	Ant1	-40.81	-27	Pass
n40	5230	Ant1	-34.36	-27	Pass
n40	5270	Ant1	-33.76	-27	Pass
n40	5310	Ant1	-32.83	-27	Pass
n40	5510	Ant1	-33.62	-27	Pass
n40	5670	Ant1	-33.6	-27	Pass
ac20	5180	Ant1	-33.73	-27	Pass
ac20	5200	Ant1	-33.94	-27	Pass
ac20	5240	Ant1	-32.72	-27	Pass
ac20	5260	Ant1	-33.71	-27	Pass
ac20	5280	Ant1	-33.19	-27	Pass
ac20	5320	Ant1	-33.21	-27	Pass
ac20	5500	Ant1	-33.87	-27	Pass
ac20	5600	Ant1	-34.12	-27	Pass
ac20	5700	Ant1	-30.76	-27	Pass
ac40	5190	Ant1	-33.83	-27	Pass
ac40	5230	Ant1	-33.75	-27	Pass
ac40	5270	Ant1	-34.19	-27	Pass
ac40	5310	Ant1	-34.04	-27	Pass



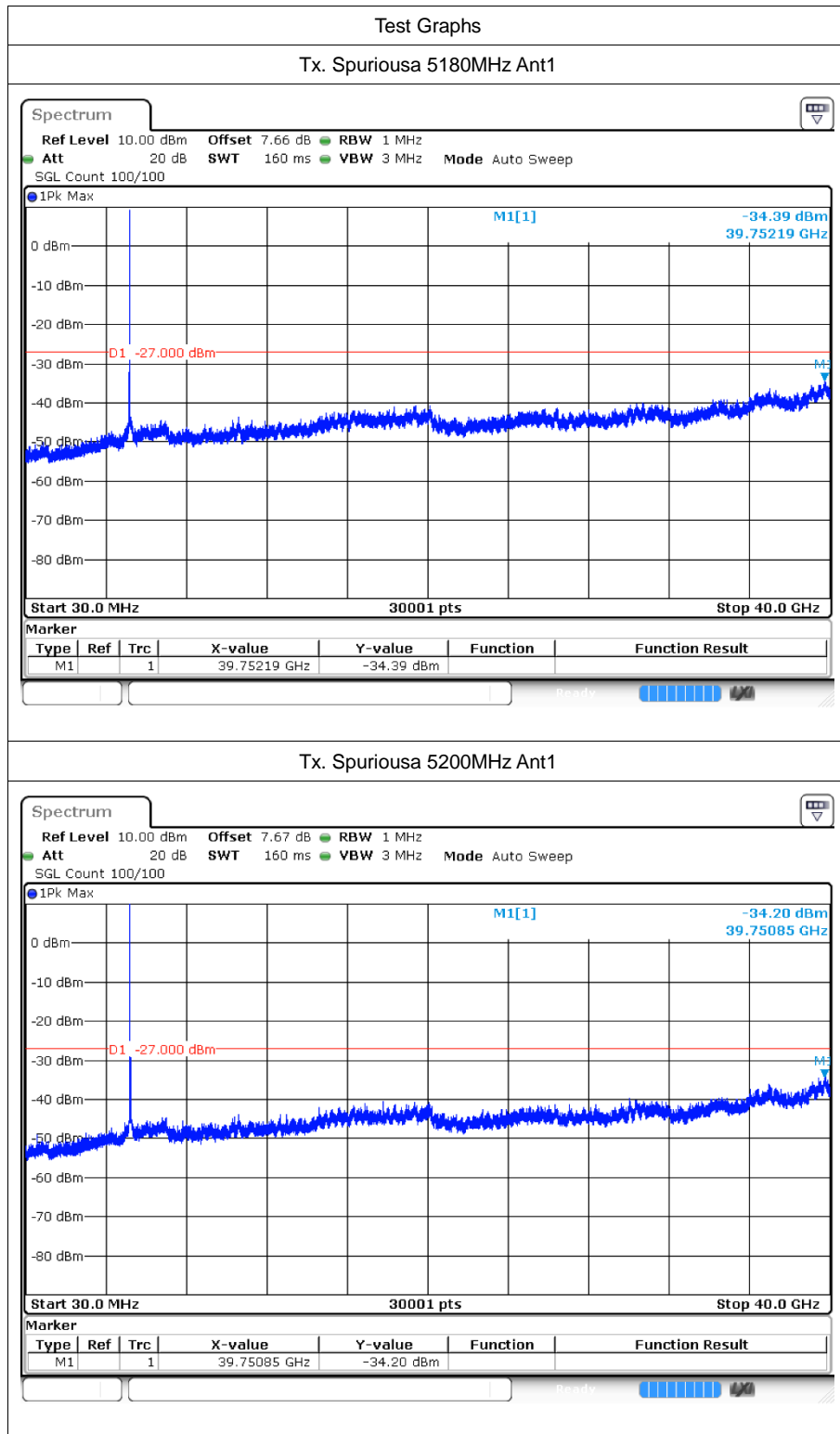
ac40	5510	Ant1	-34	-27	Pass
ac40	5670	Ant1	-33.74	-27	Pass
ac80	5210	Ant1	-33.88	-27	Pass
ac80	5290	Ant1	-34.37	-27	Pass
ac80	5530	Ant1	-33.85	-27	Pass
ac80	5610	Ant1	-33.99	-27	Pass
a	5180	Ant2	-34.2	-27	Pass
a	5200	Ant2	-34.01	-27	Pass
a	5240	Ant2	-34.08	-27	Pass
a	5260	Ant2	-33.68	-27	Pass
a	5280	Ant2	-33.79	-27	Pass
a	5320	Ant2	-33.28	-27	Pass
a	5500	Ant2	-33.37	-27	Pass
a	5600	Ant2	-33.69	-27	Pass
a	5700	Ant2	-33.78	-27	Pass
n20	5180	Ant2	-34.4	-27	Pass
n20	5200	Ant2	-34.18	-27	Pass
n20	5240	Ant2	-34.26	-27	Pass
n20	5260	Ant2	-32.97	-27	Pass
n20	5280	Ant2	-32.7	-27	Pass
n20	5320	Ant2	-33.54	-27	Pass
n20	5500	Ant2	-33.72	-27	Pass
n20	5600	Ant2	-33.81	-27	Pass
n20	5700	Ant2	-33.94	-27	Pass
n40	5190	Ant2	-33.39	-27	Pass
n40	5230	Ant2	-33.47	-27	Pass
n40	5270	Ant2	-33.27	-27	Pass
n40	5310	Ant2	-33.91	-27	Pass
n40	5510	Ant2	-33.8	-27	Pass
n40	5670	Ant2	-34.2	-27	Pass
ac20	5180	Ant2	-34.65	-27	Pass
ac20	5200	Ant2	-33.18	-27	Pass
ac20	5240	Ant2	-33.67	-27	Pass
ac20	5260	Ant2	-32.5	-27	Pass
ac20	5280	Ant2	-34.4	-27	Pass
ac20	5320	Ant2	-33.39	-27	Pass
ac20	5500	Ant2	-33.31	-27	Pass
ac20	5600	Ant2	-33.49	-27	Pass
ac20	5700	Ant2	-33.19	-27	Pass
ac40	5190	Ant2	-34.29	-27	Pass
ac40	5230	Ant2	-34.04	-27	Pass
ac40	5270	Ant2	-33.51	-27	Pass
ac40	5310	Ant2	-33.94	-27	Pass

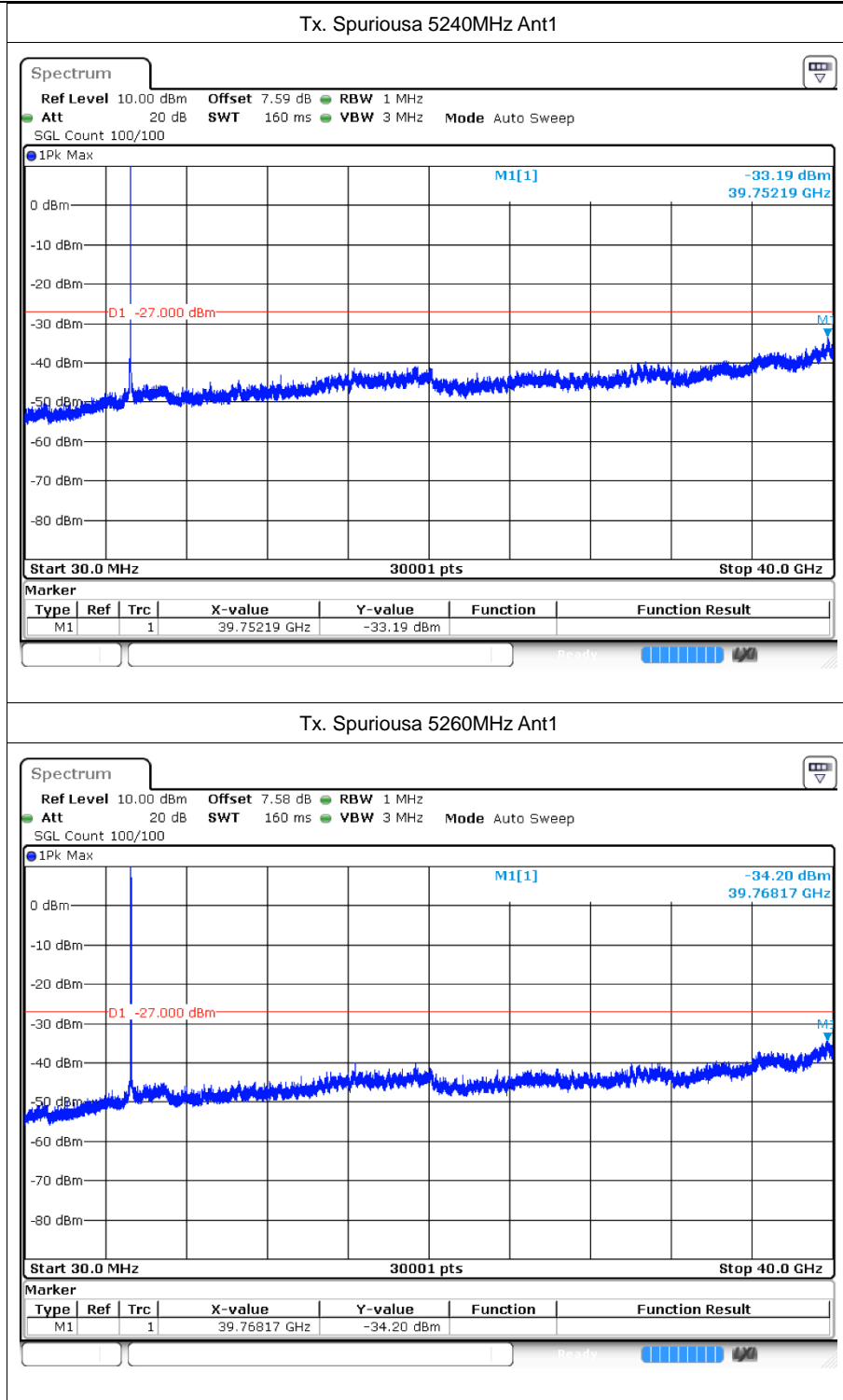


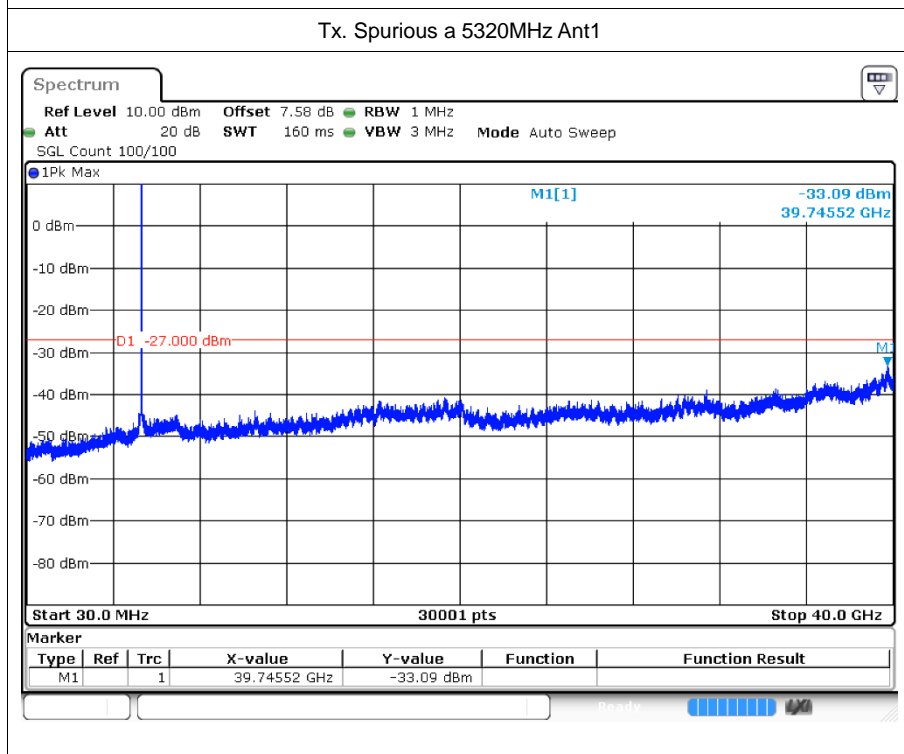
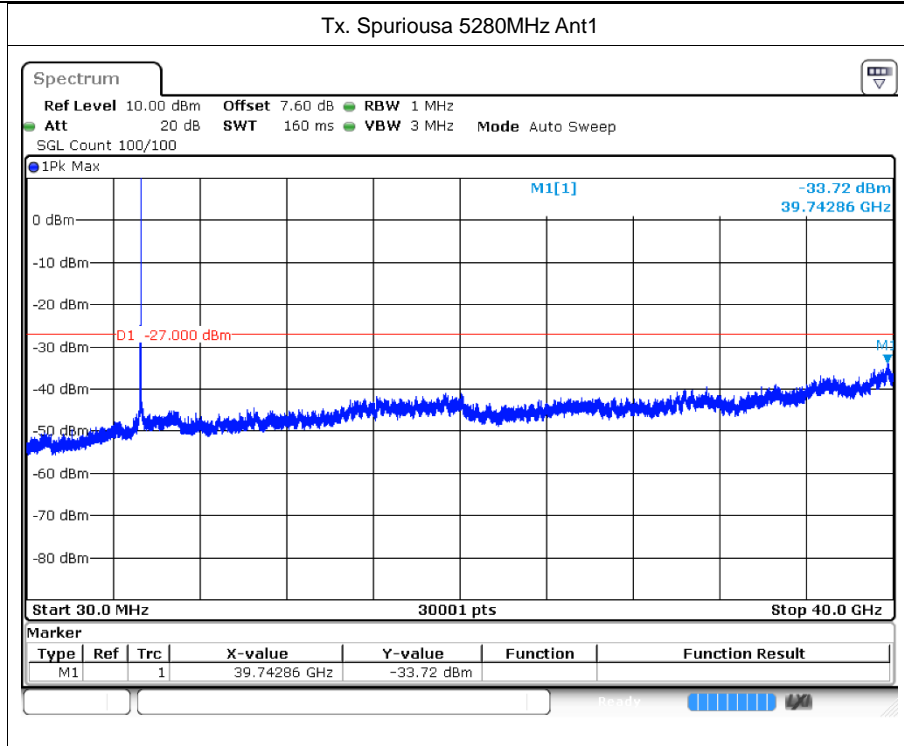
ac40	5510	Ant2	-33.98	-27	Pass
ac40	5670	Ant2	-33.58	-27	Pass
ac80	5210	Ant2	-33.01	-27	Pass
ac80	5290	Ant2	-34.33	-27	Pass
ac80	5530	Ant2	-33.64	-27	Pass
ac80	5610	Ant2	-33.95	-27	Pass

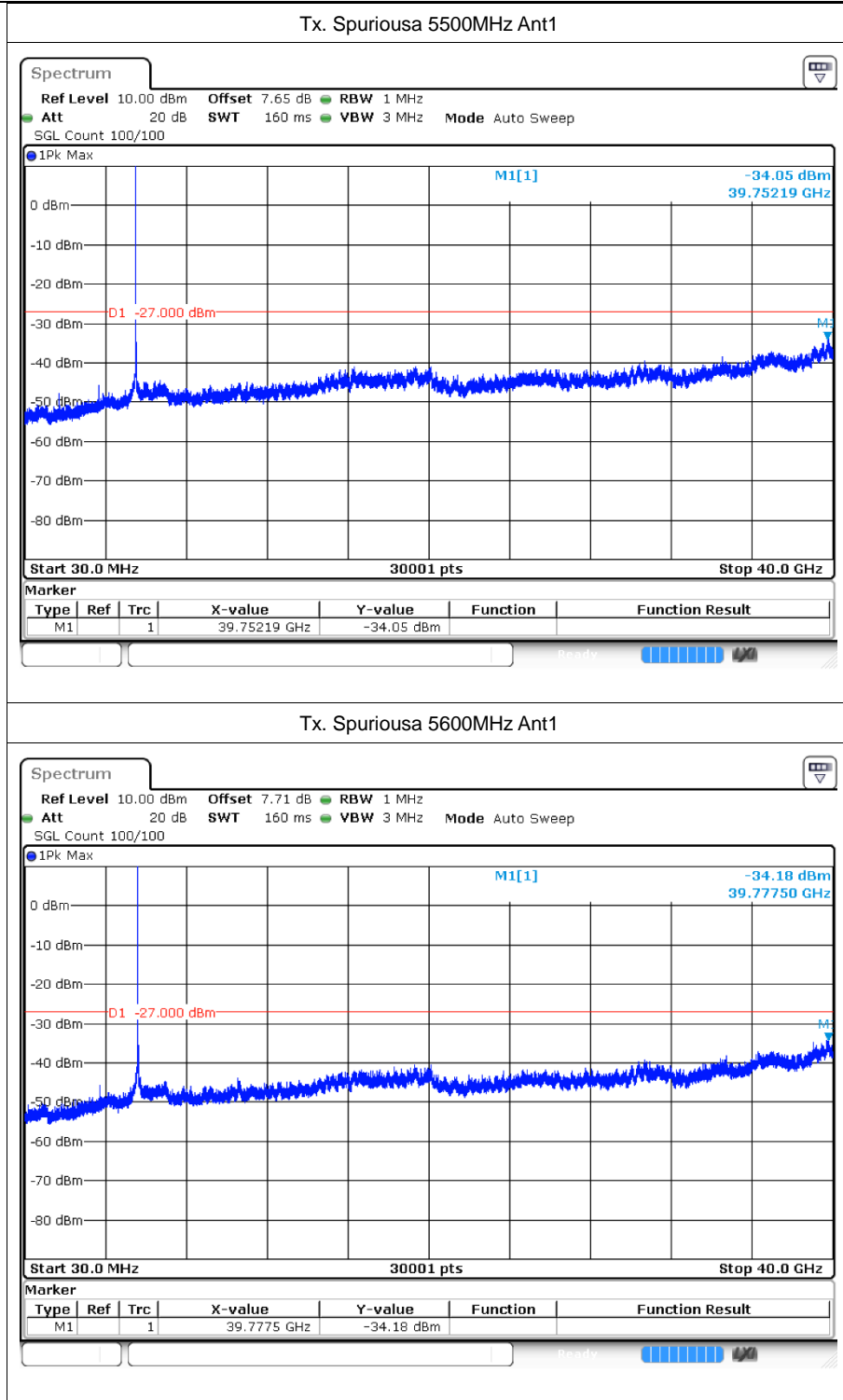


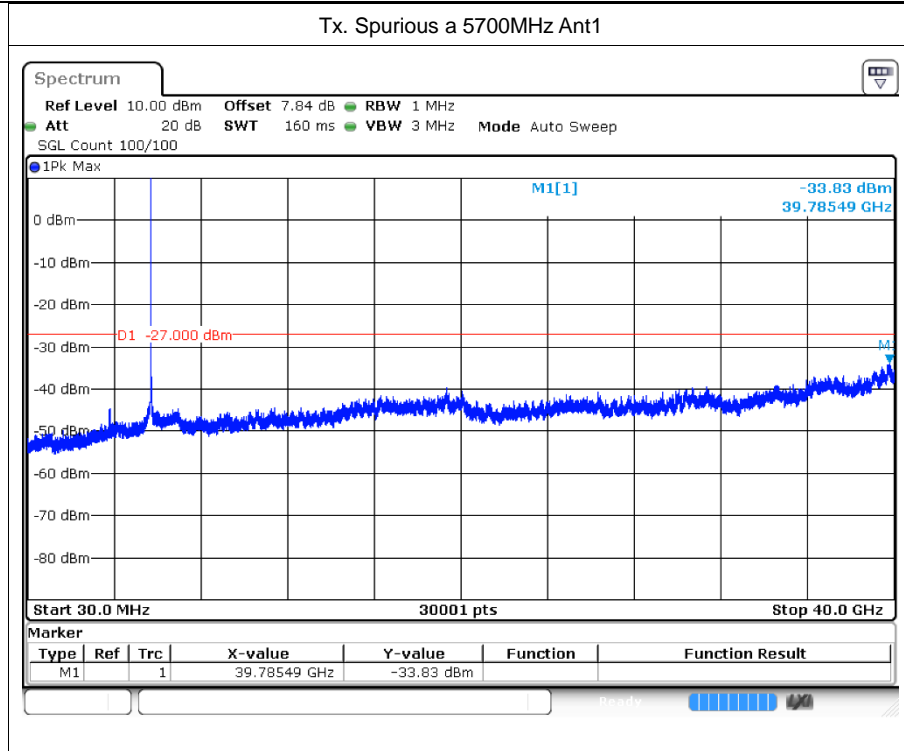
7.2 Test Graphs

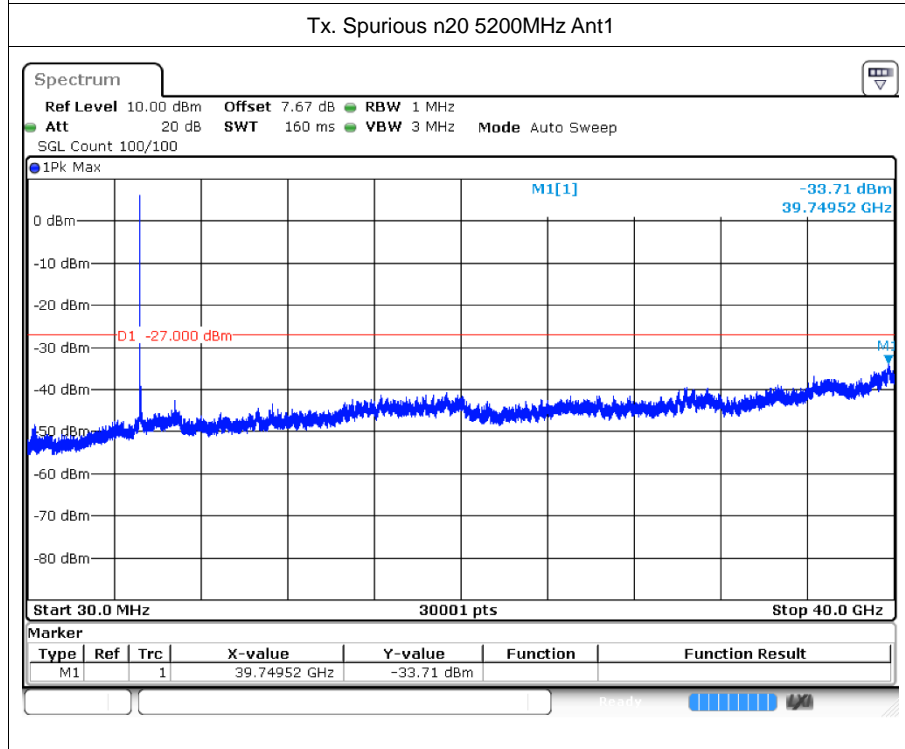
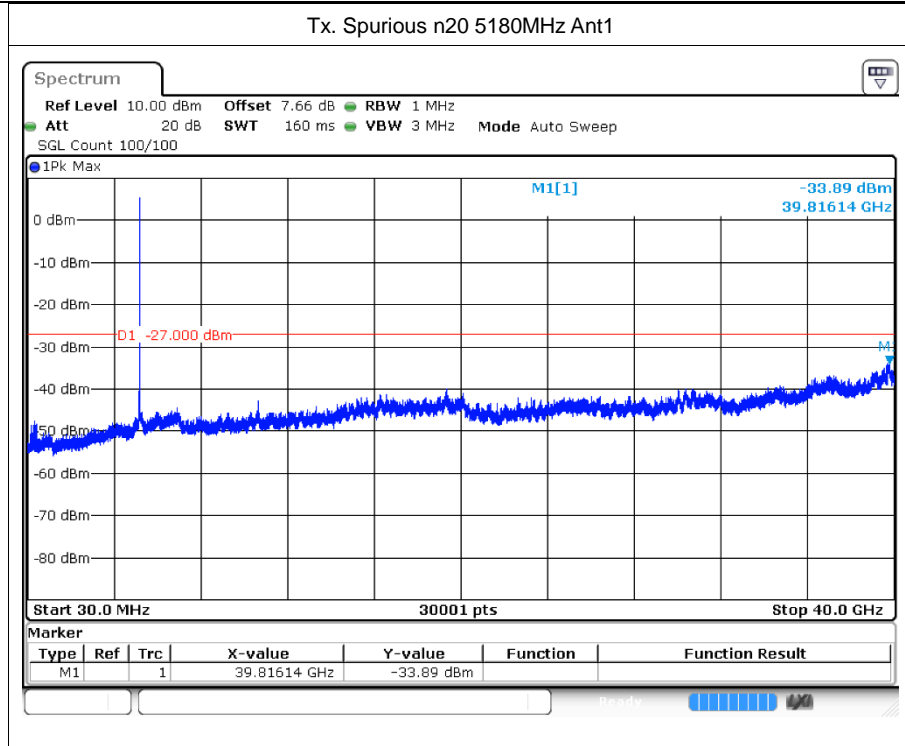


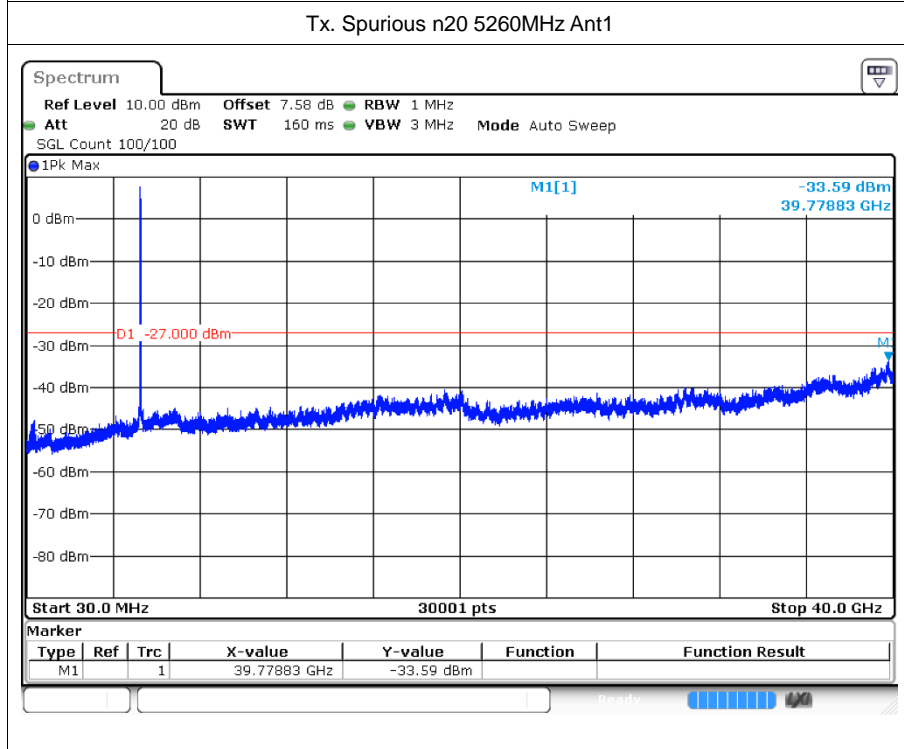
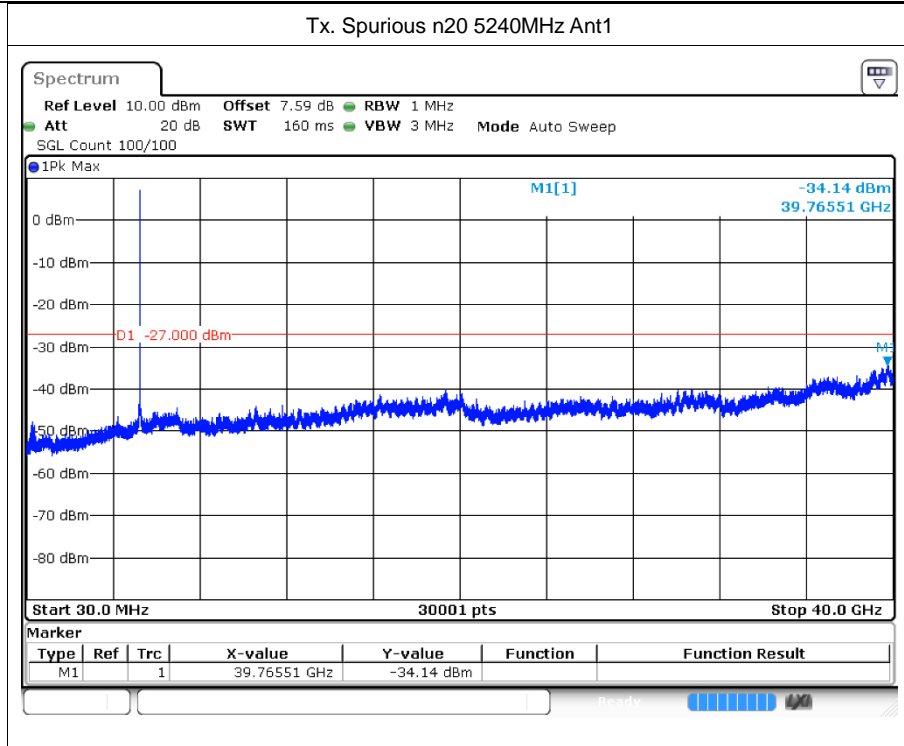


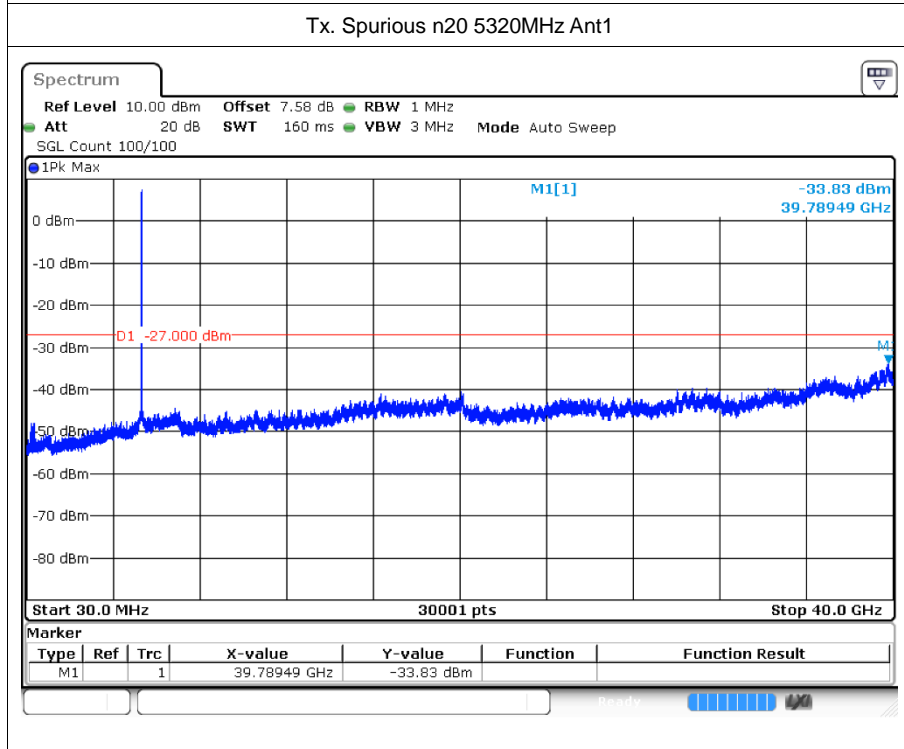
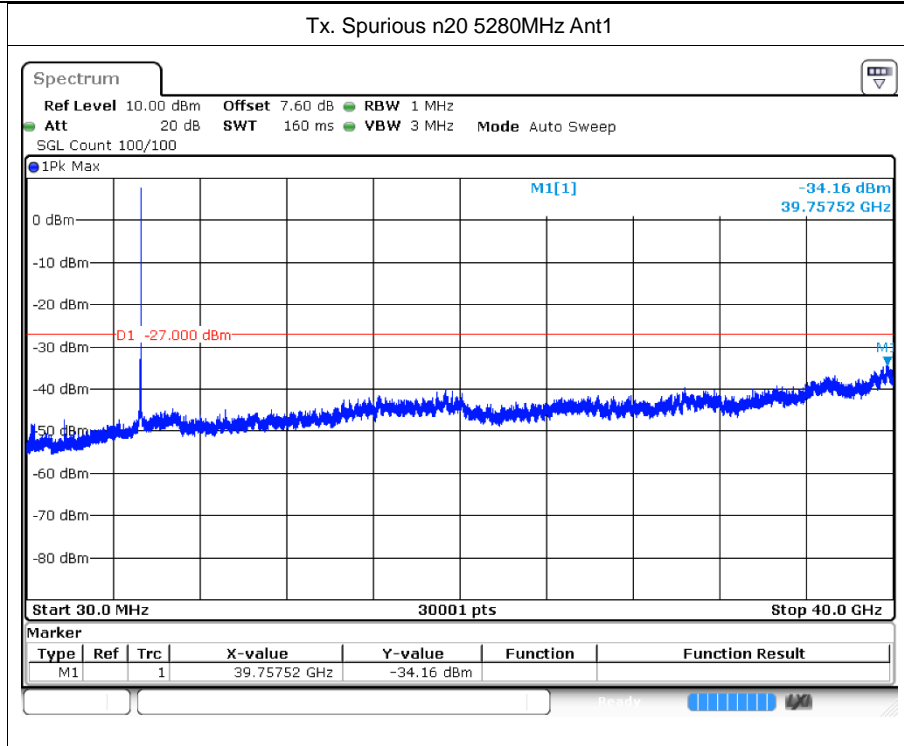


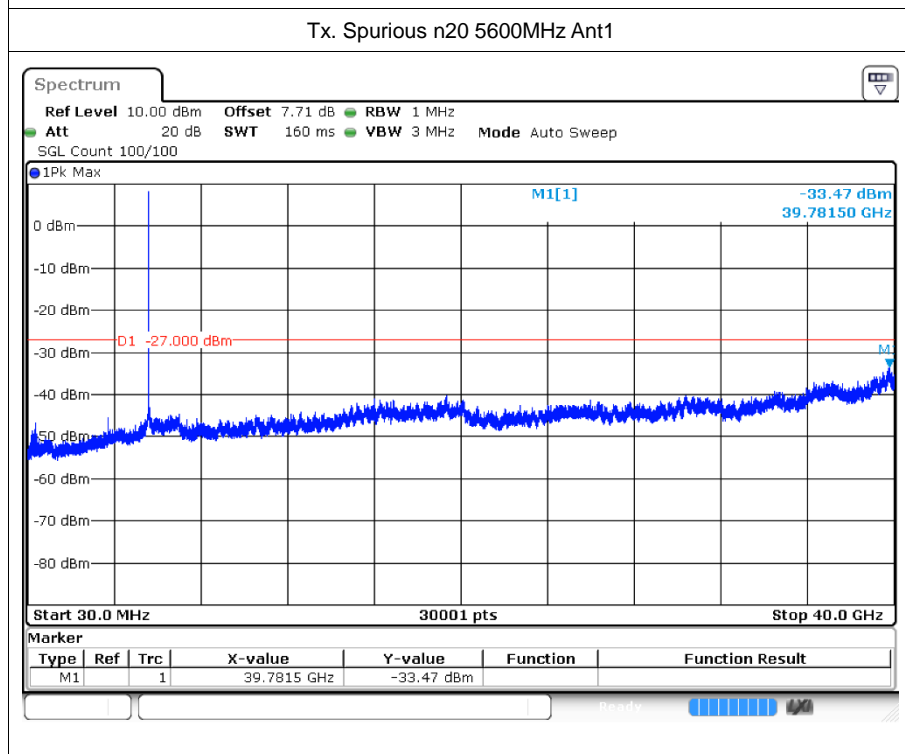
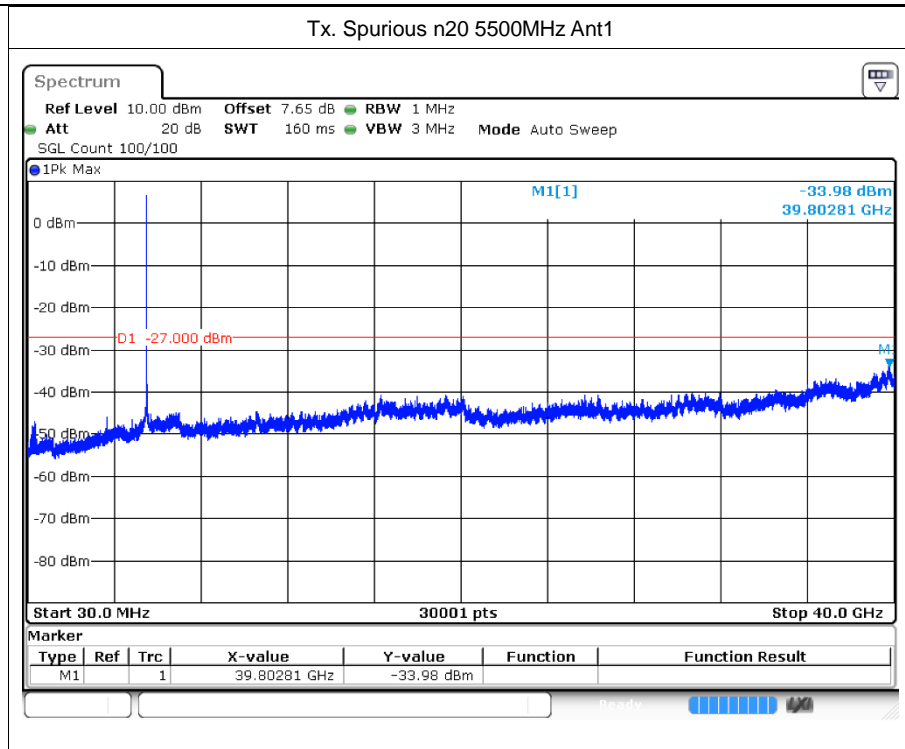


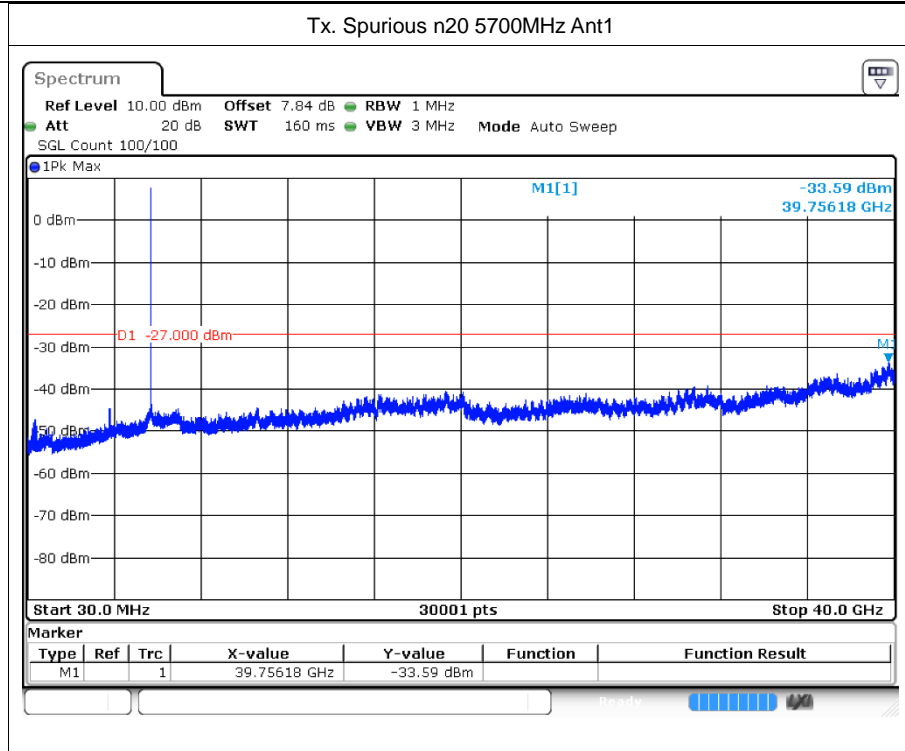


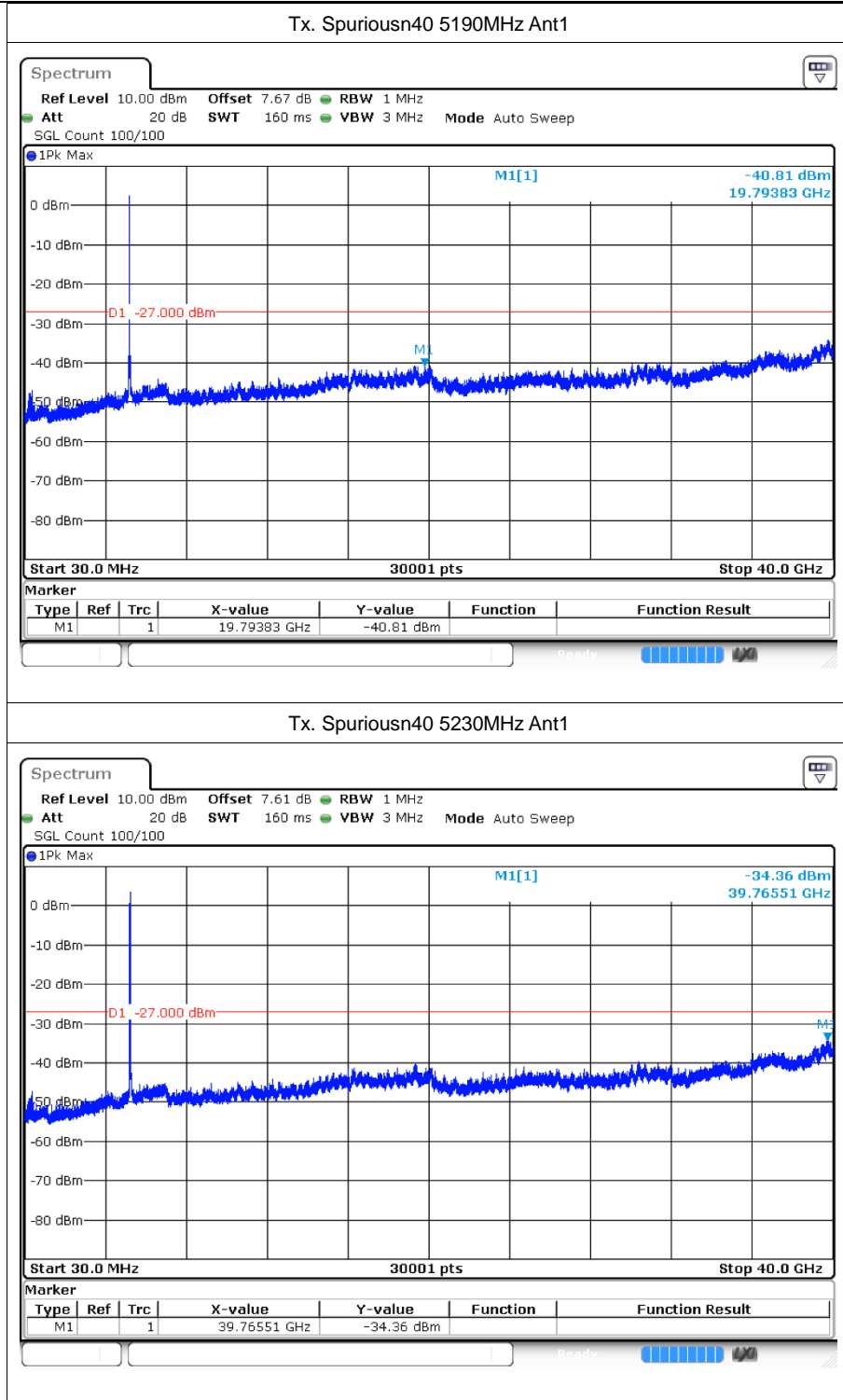


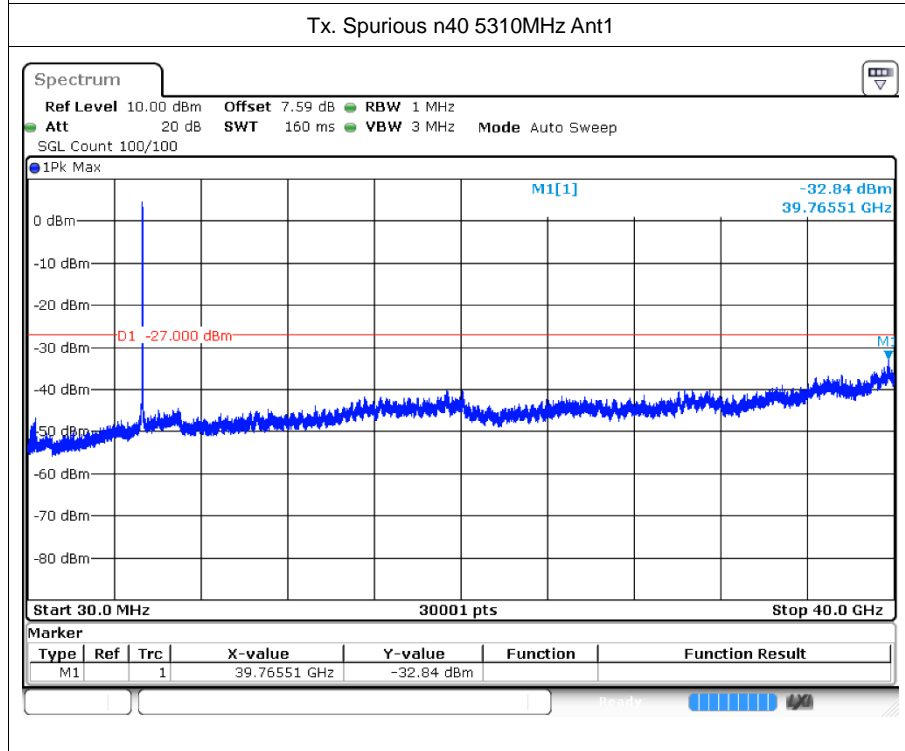
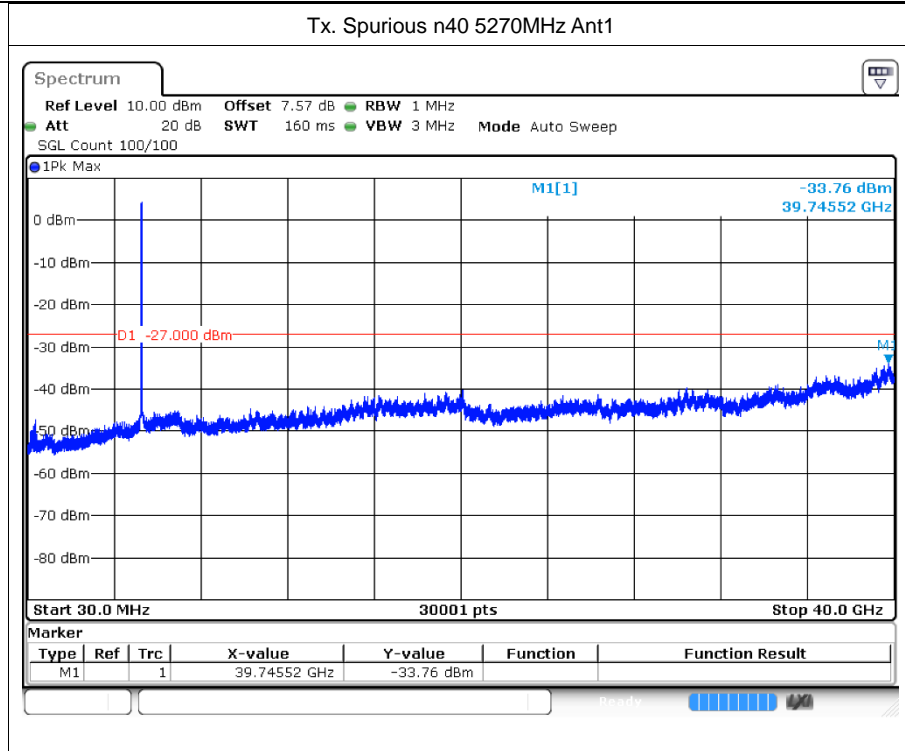


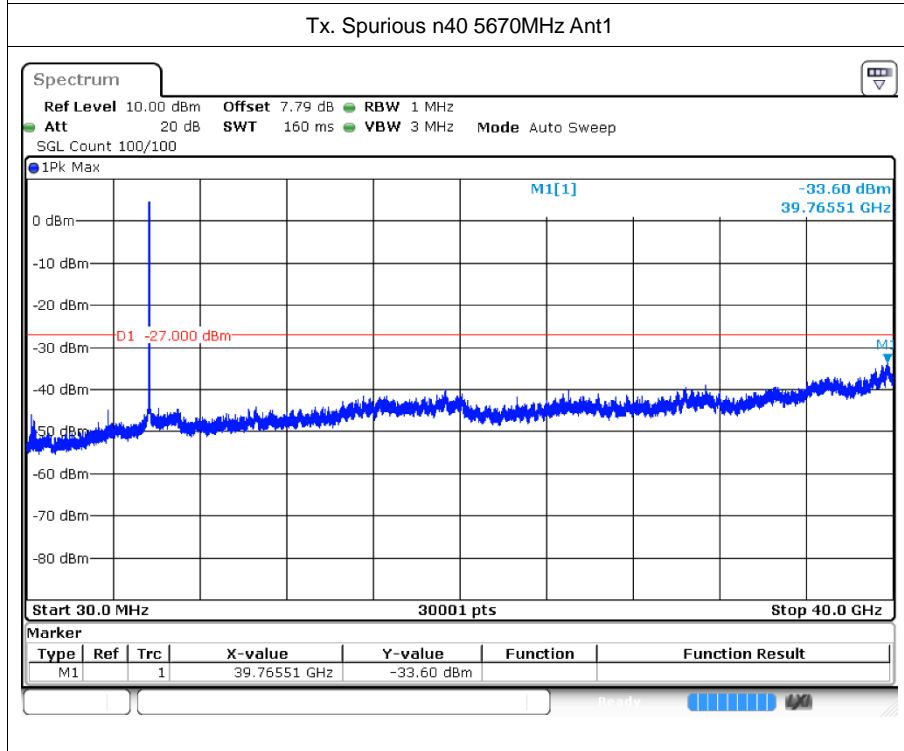
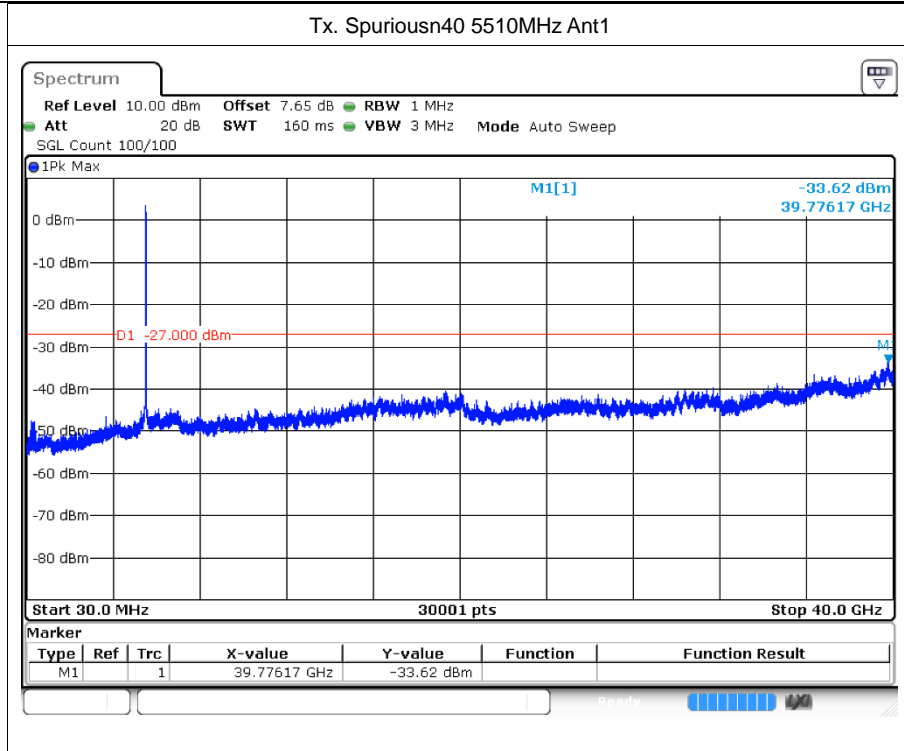


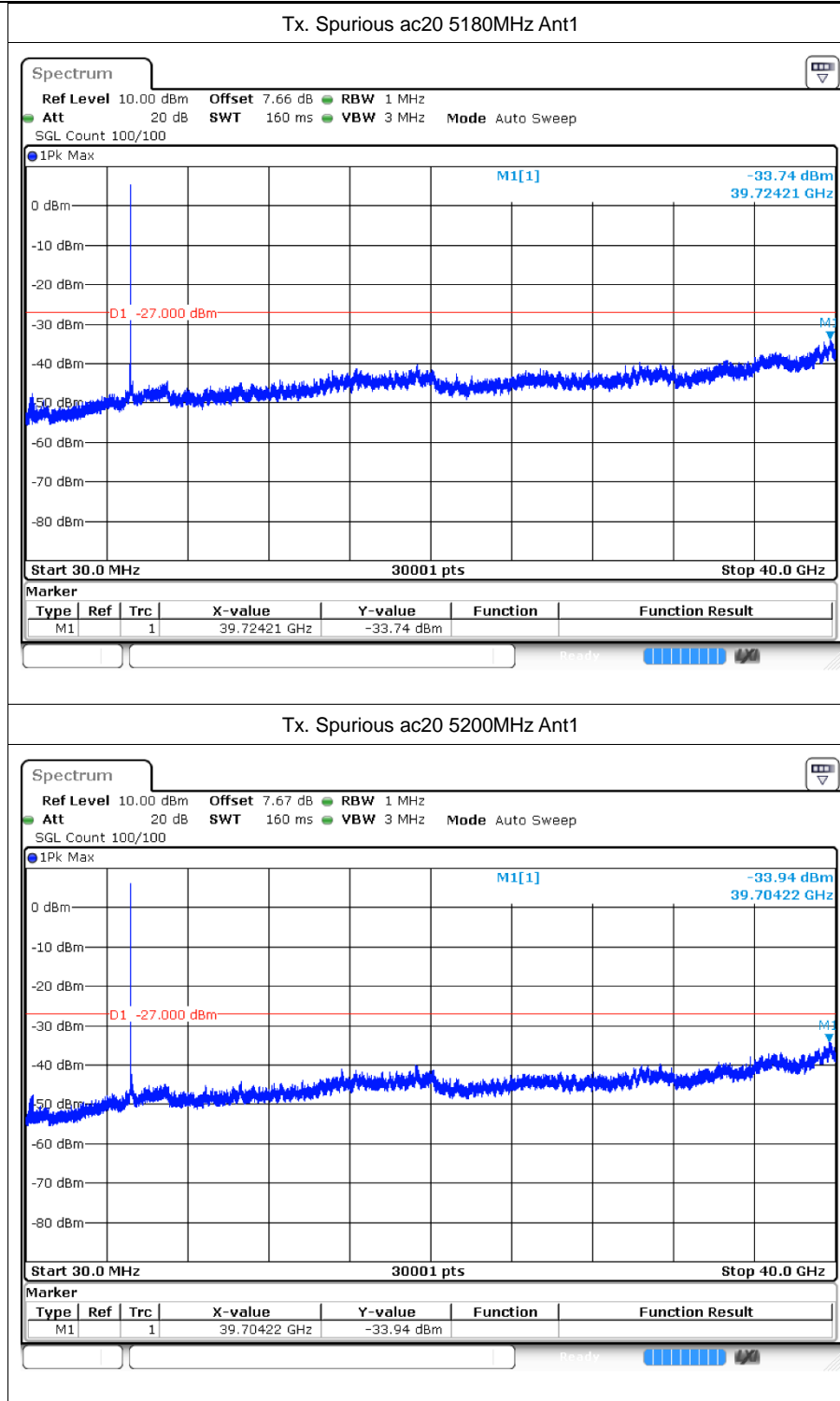


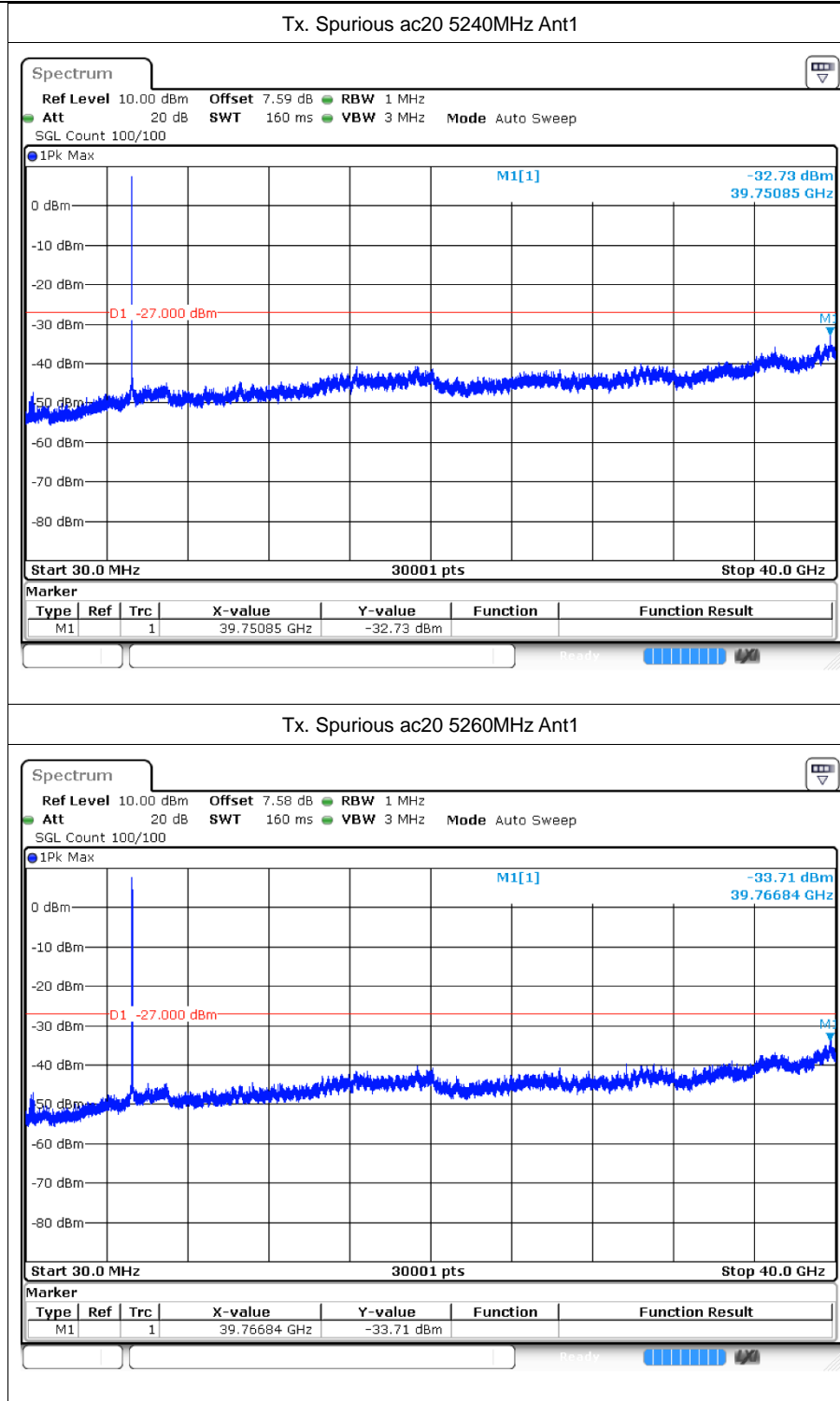


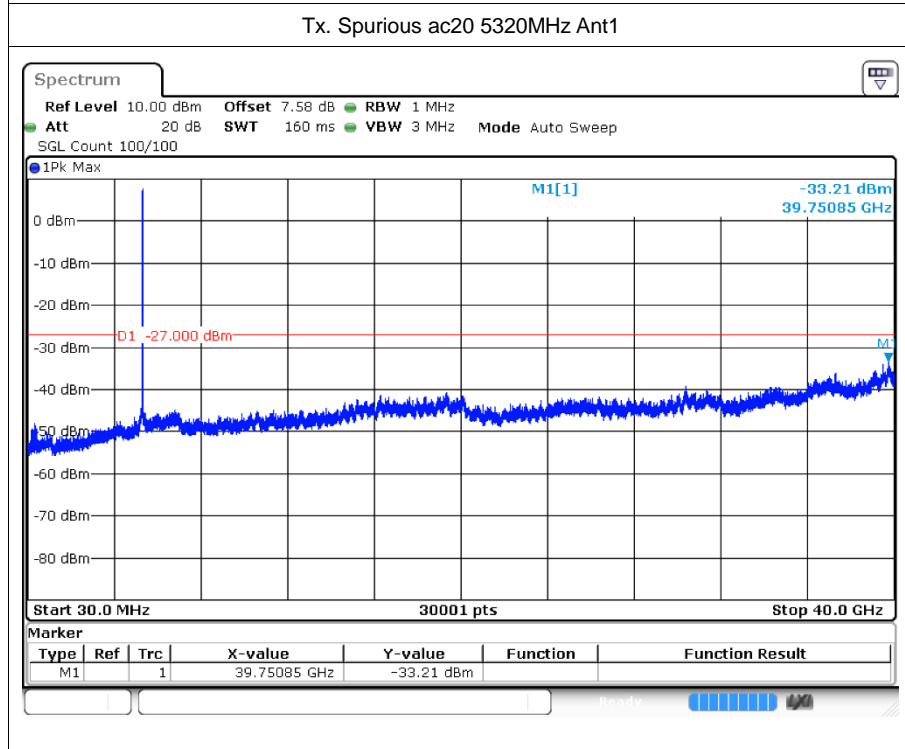
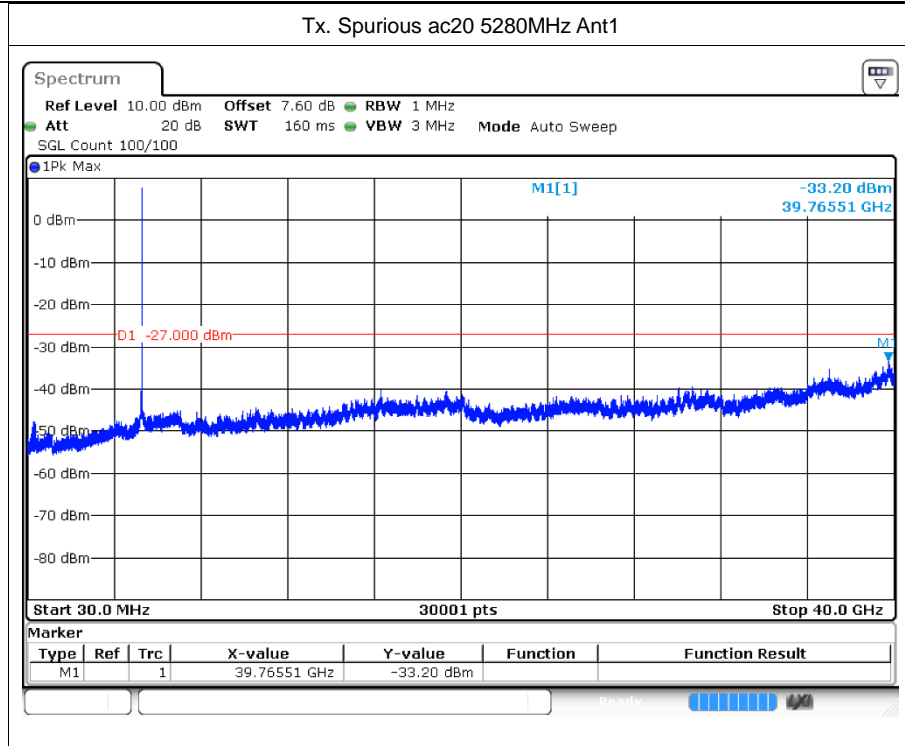


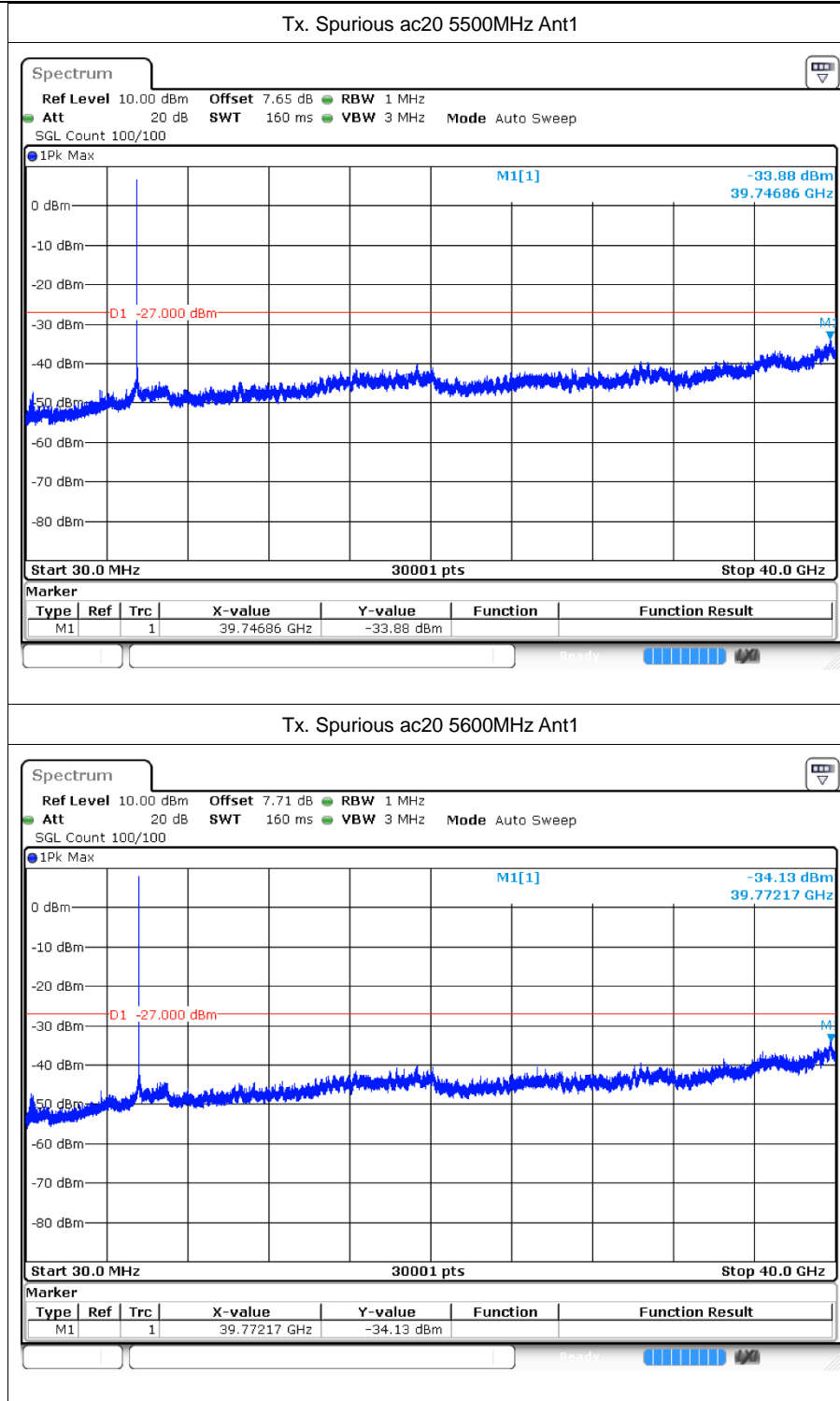


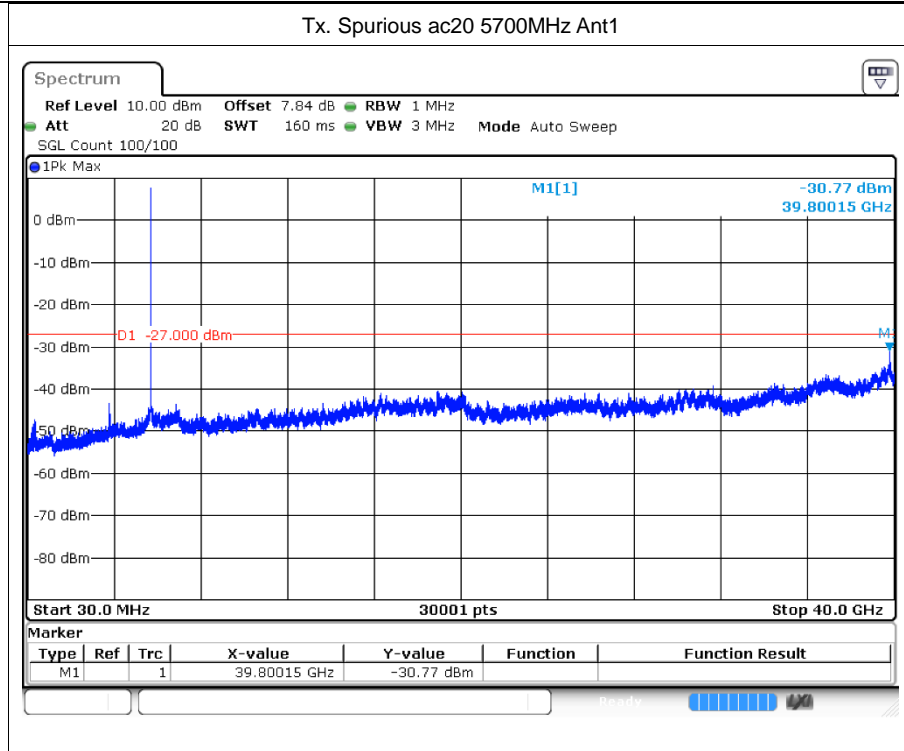


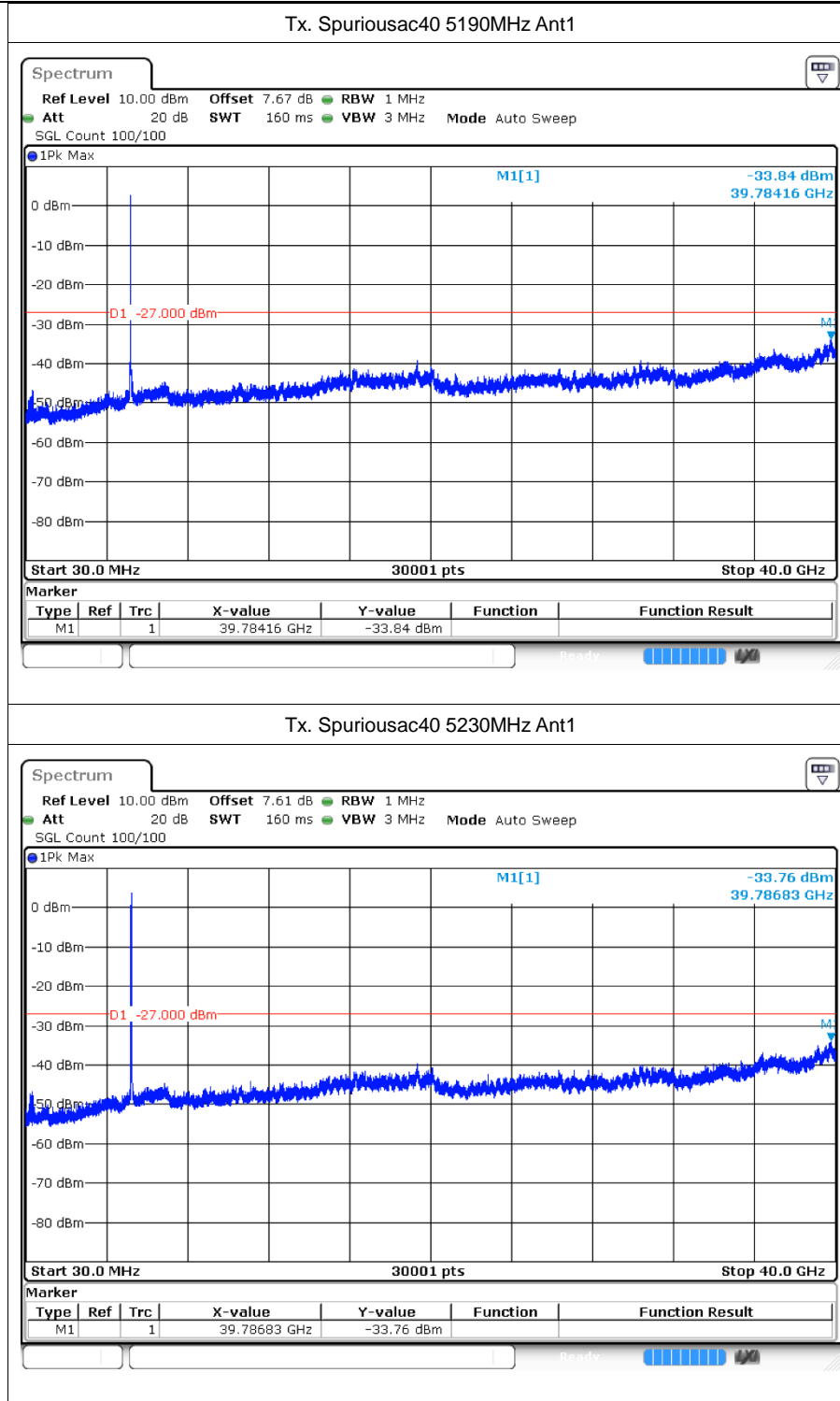


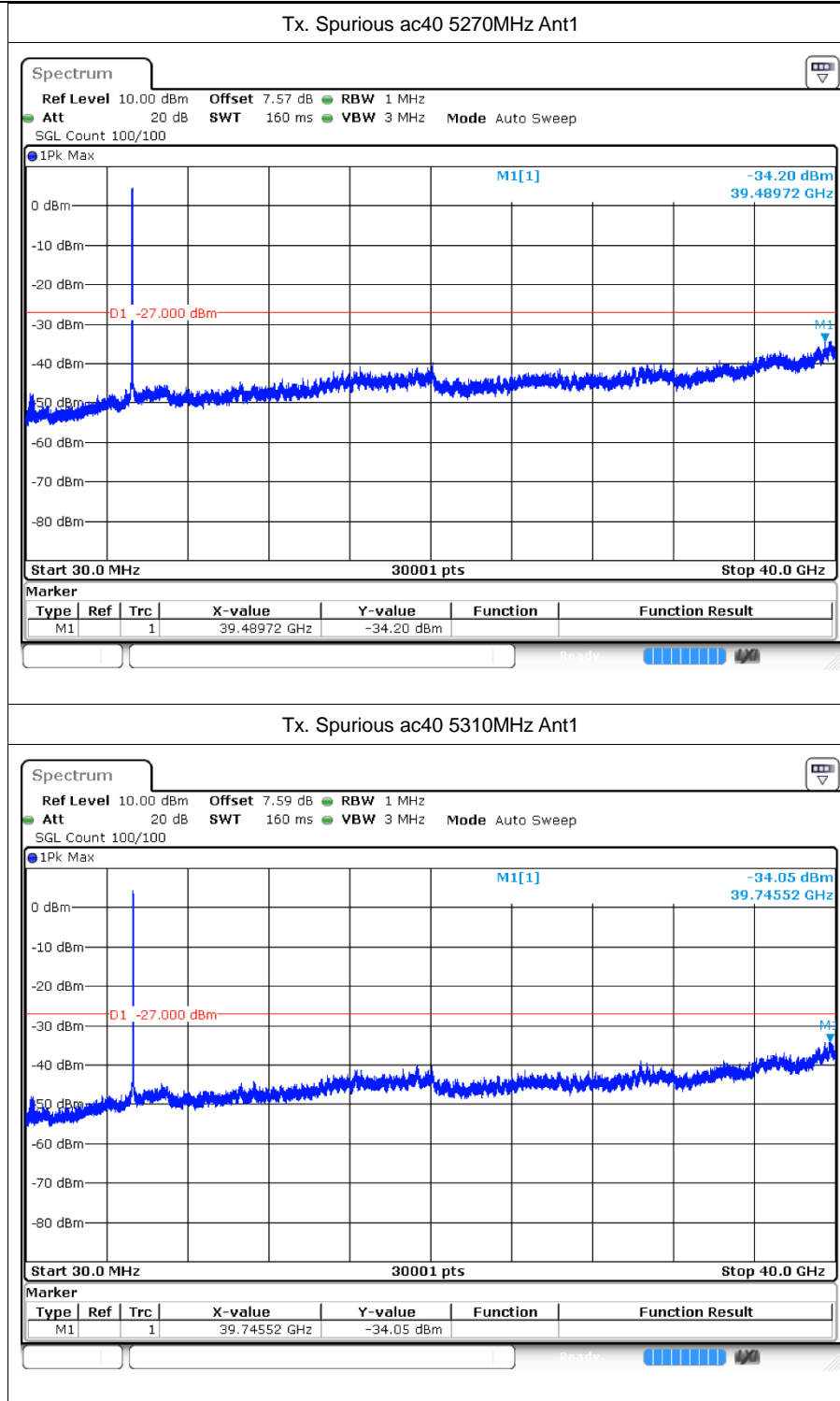


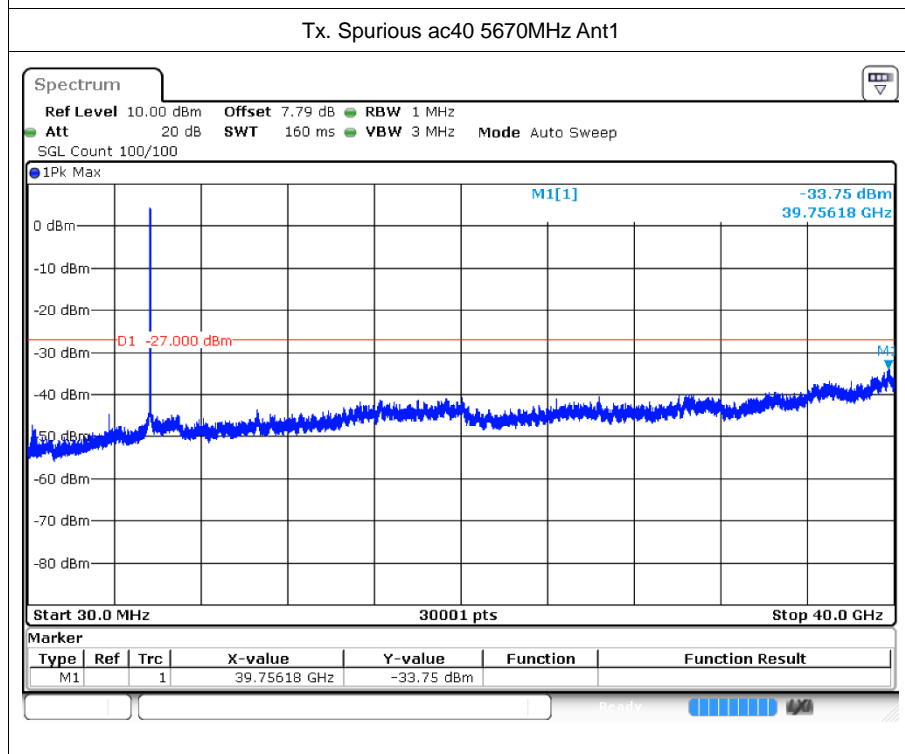
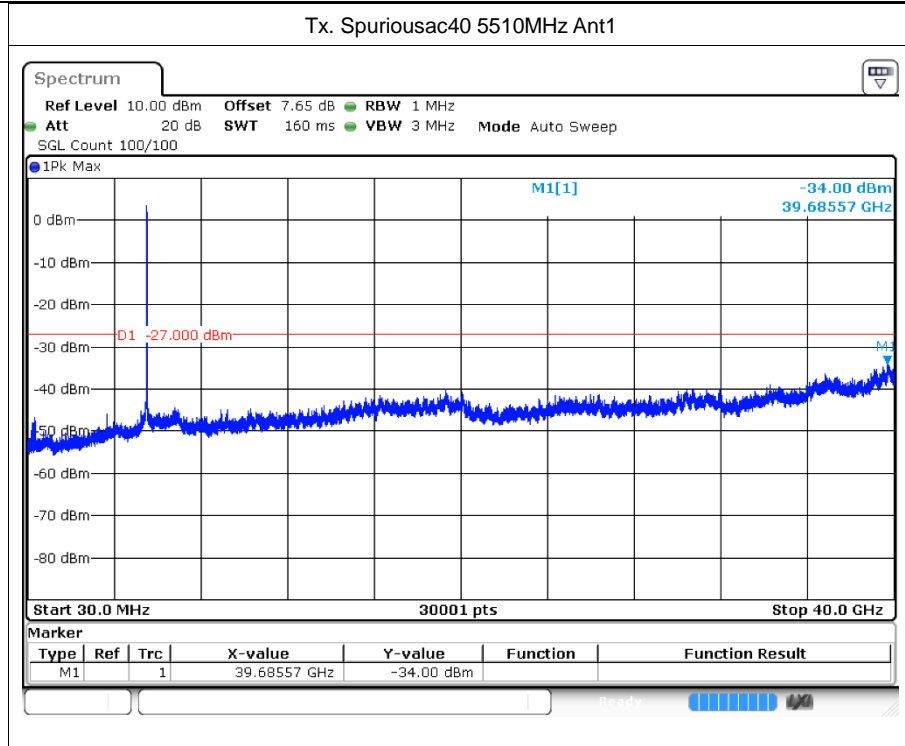


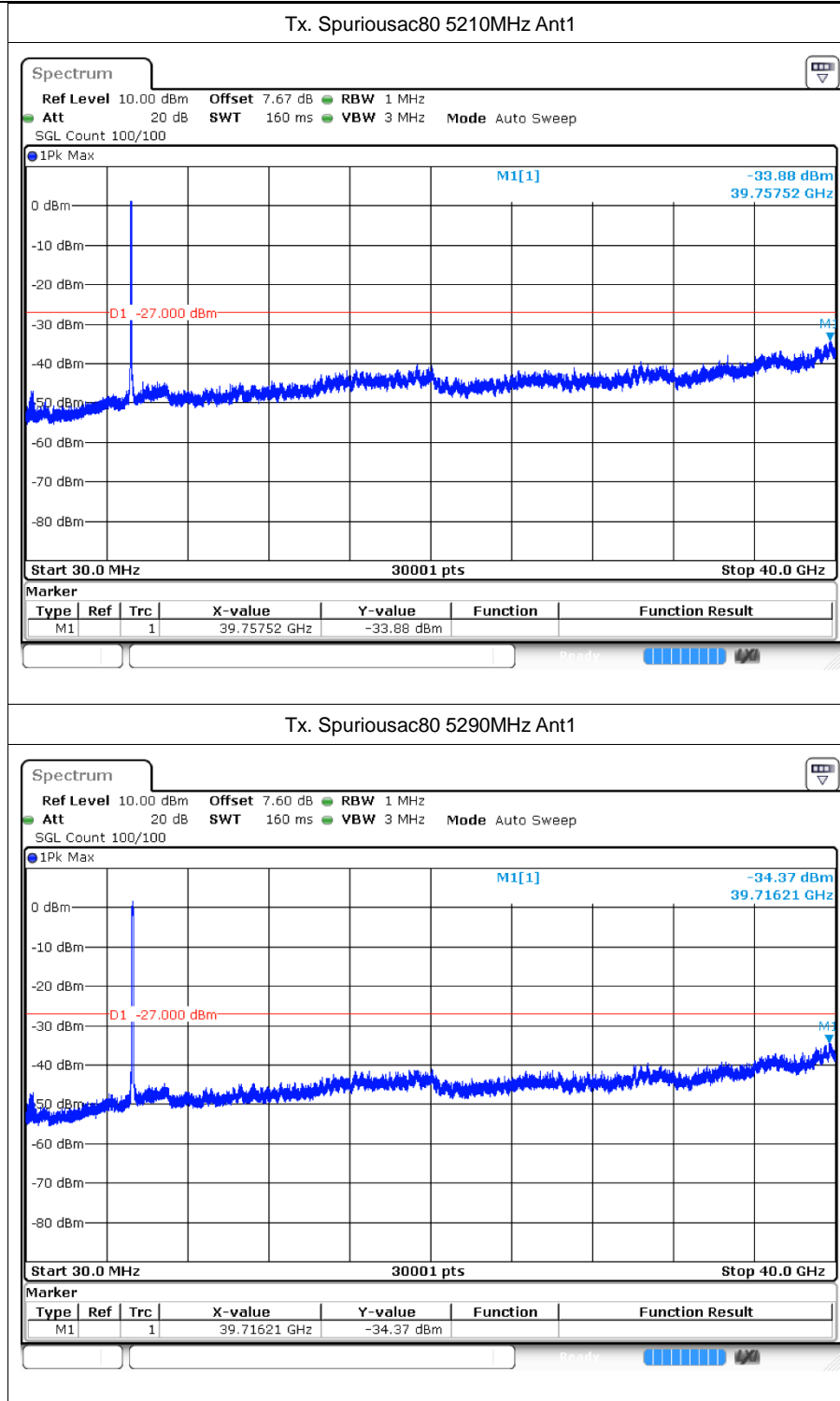


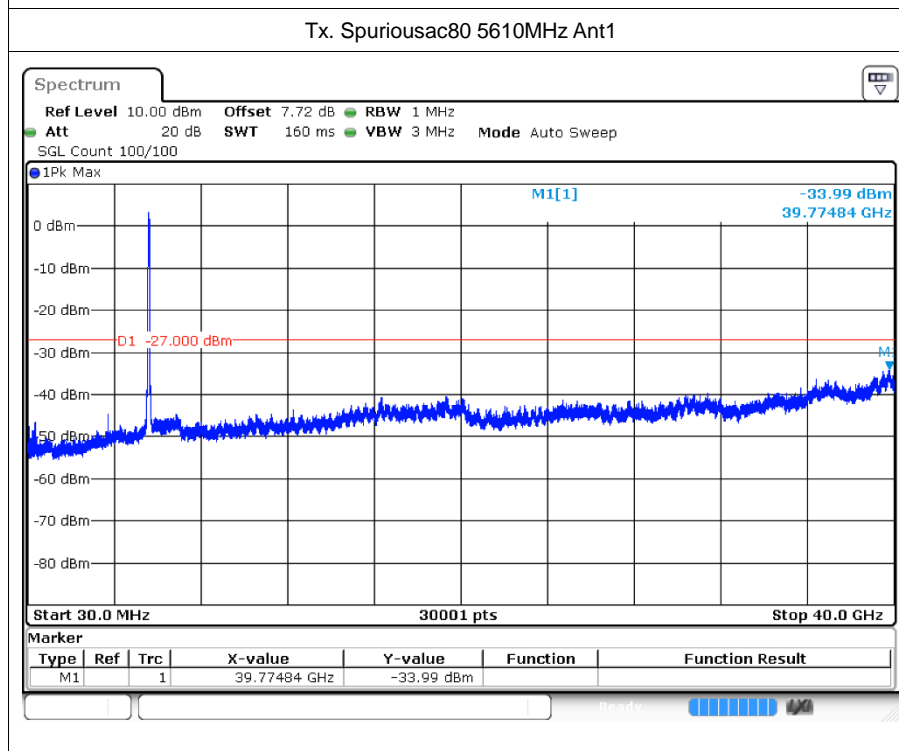
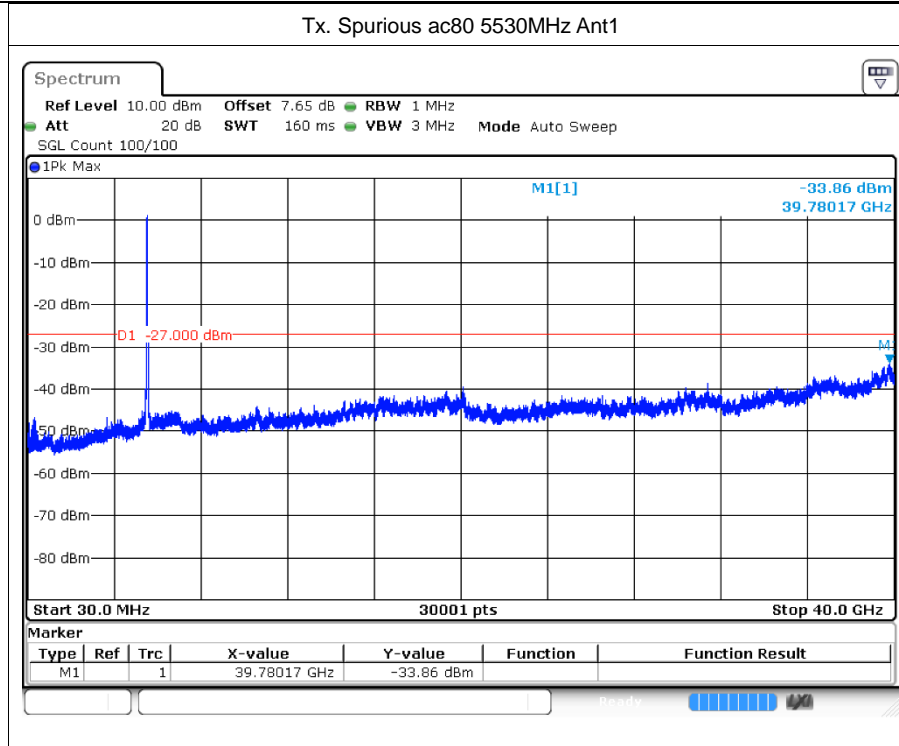


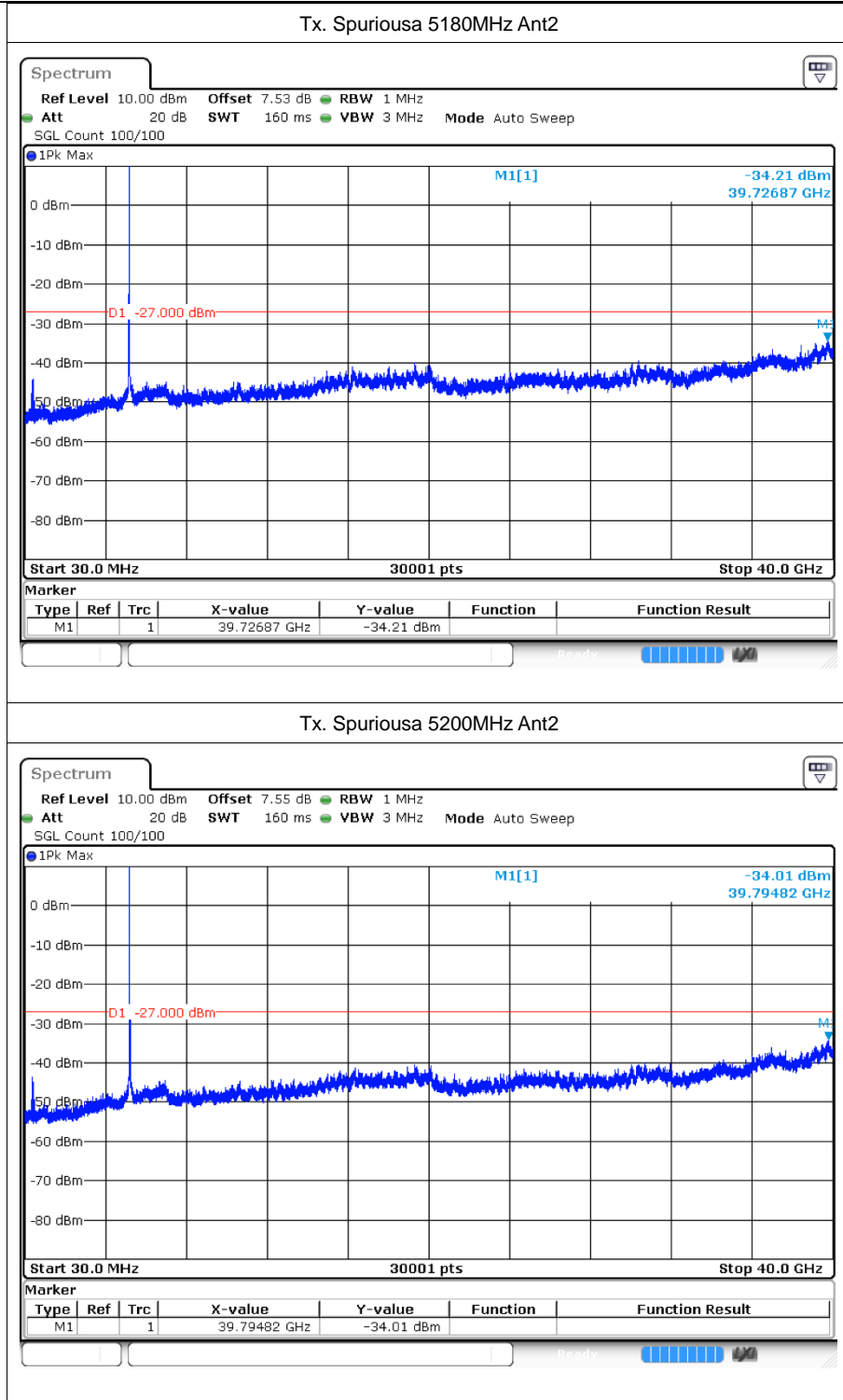


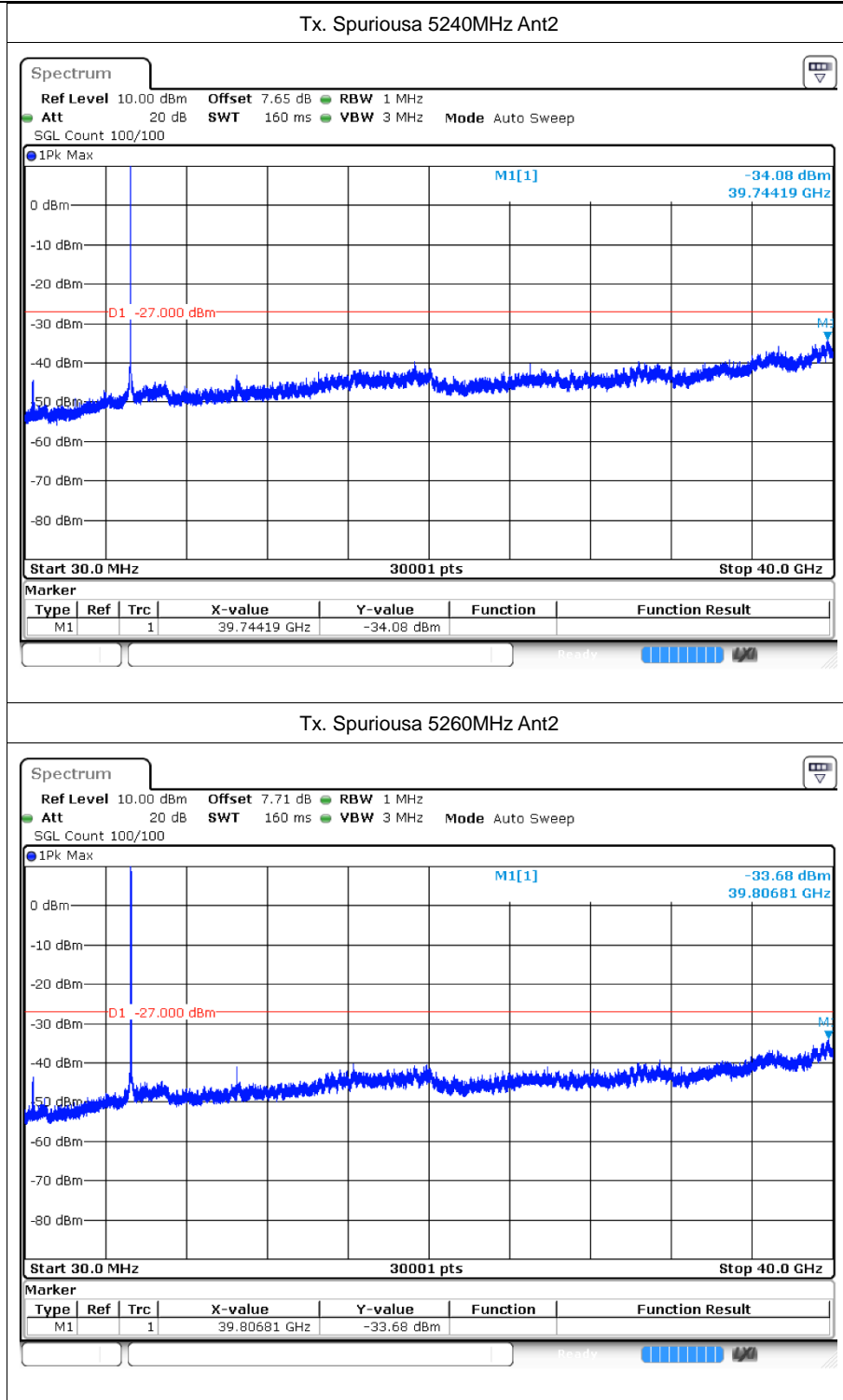


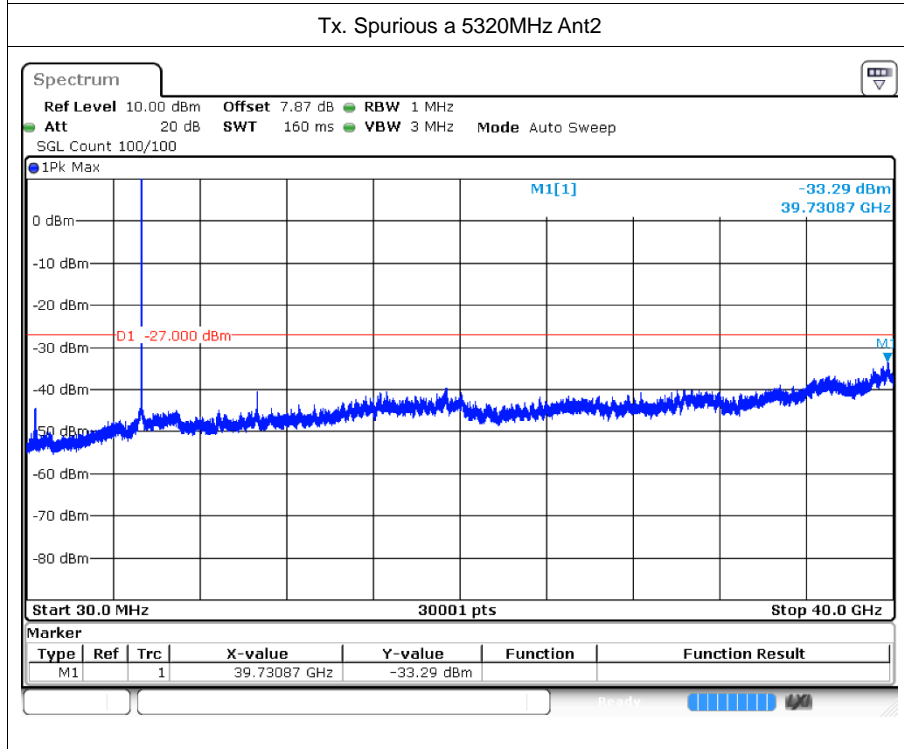
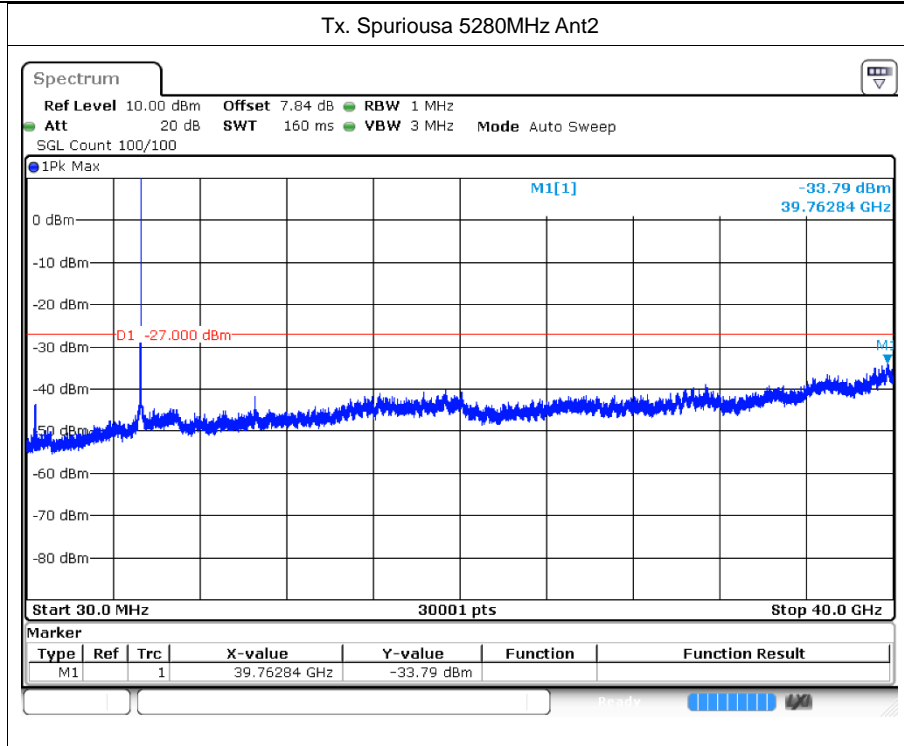


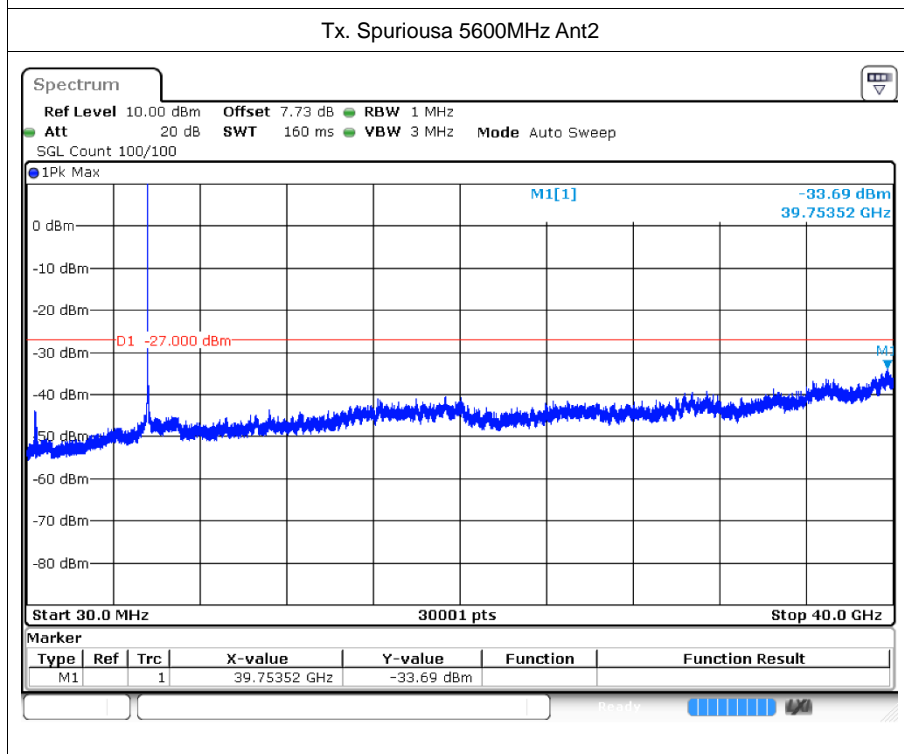
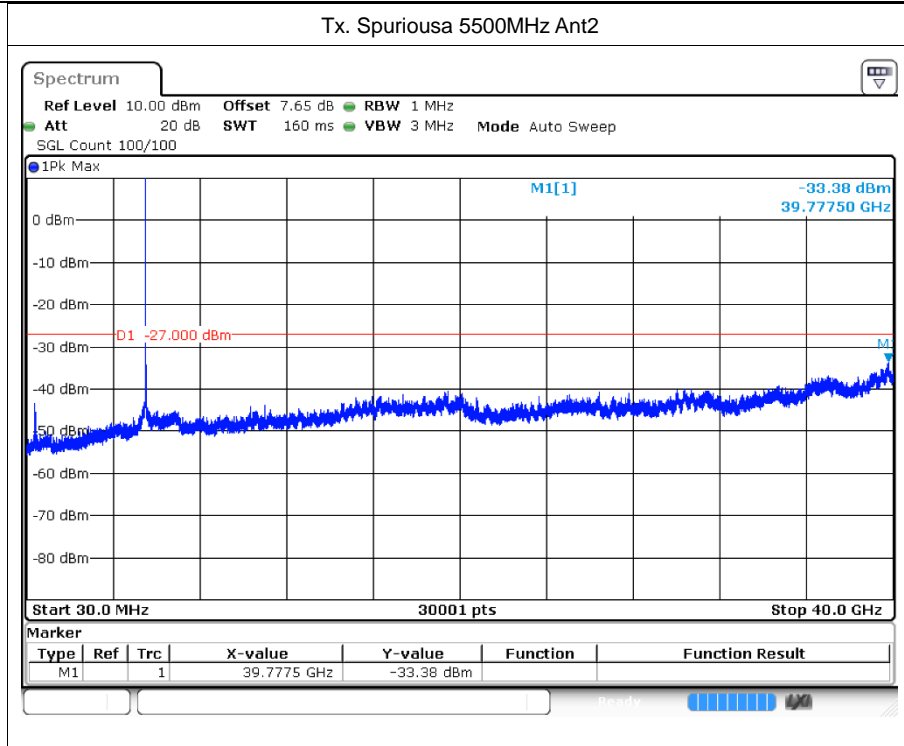


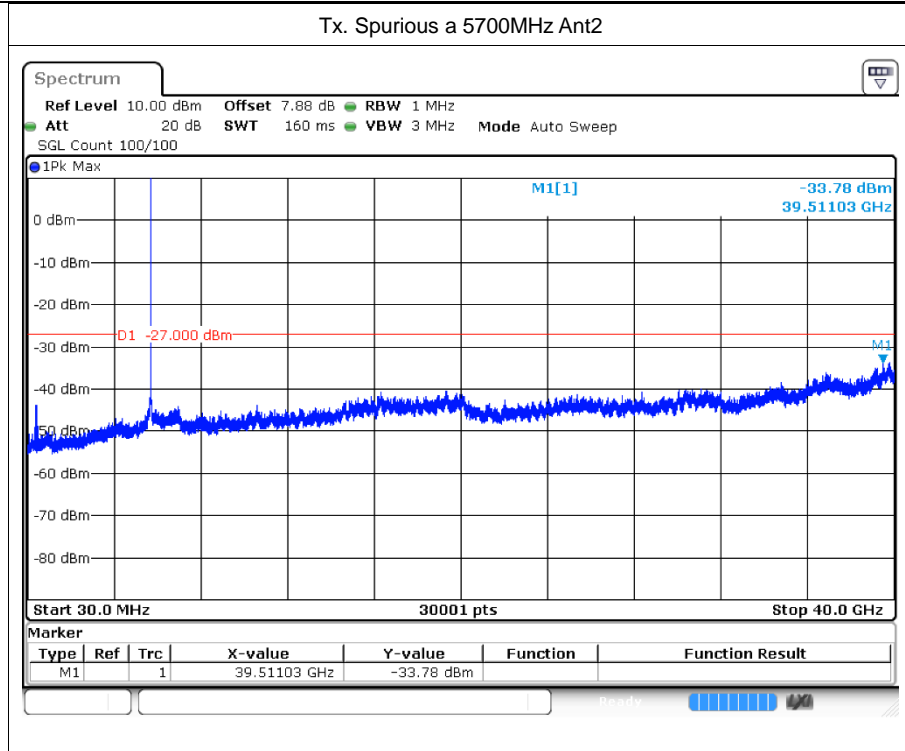


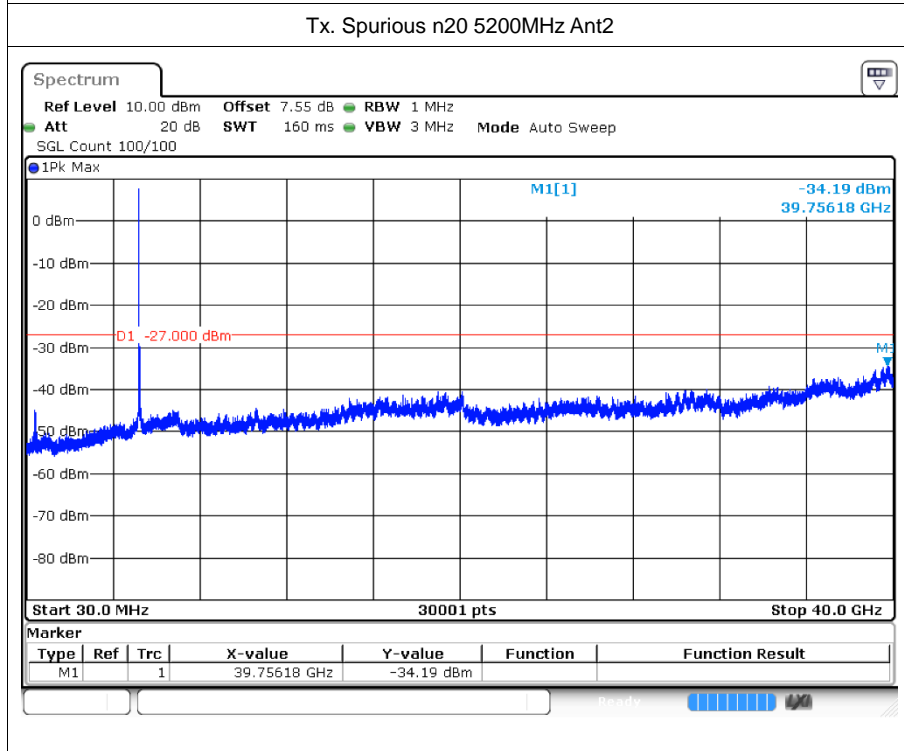
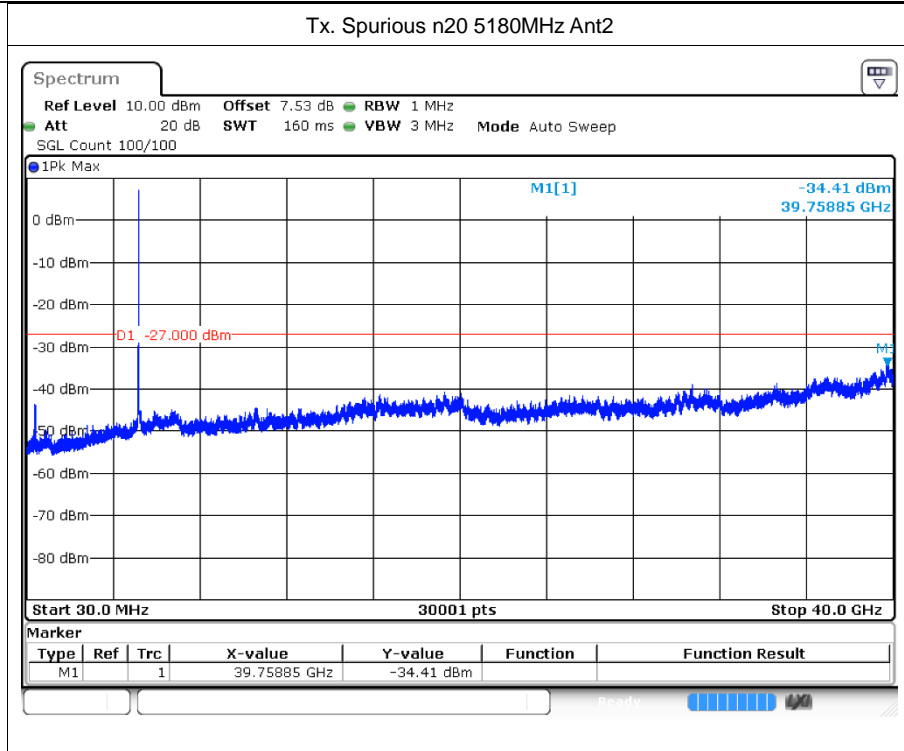


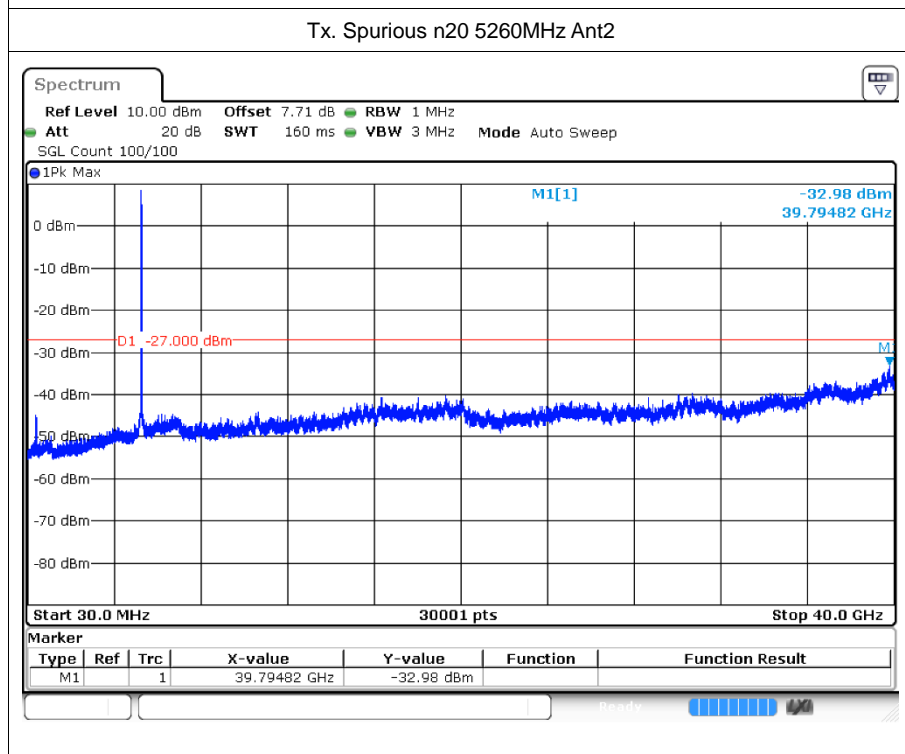
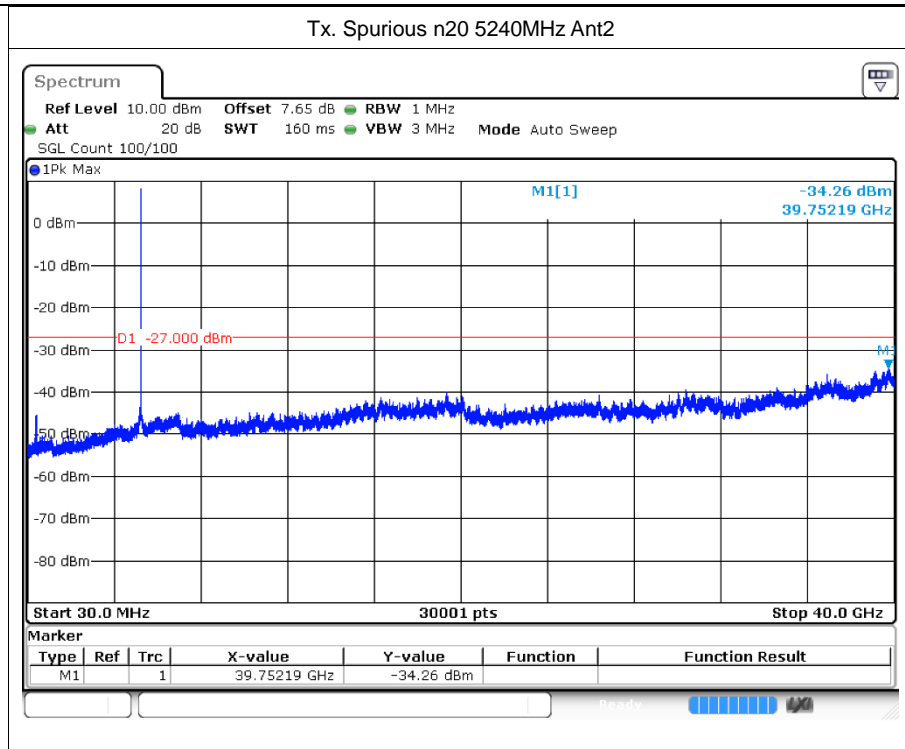


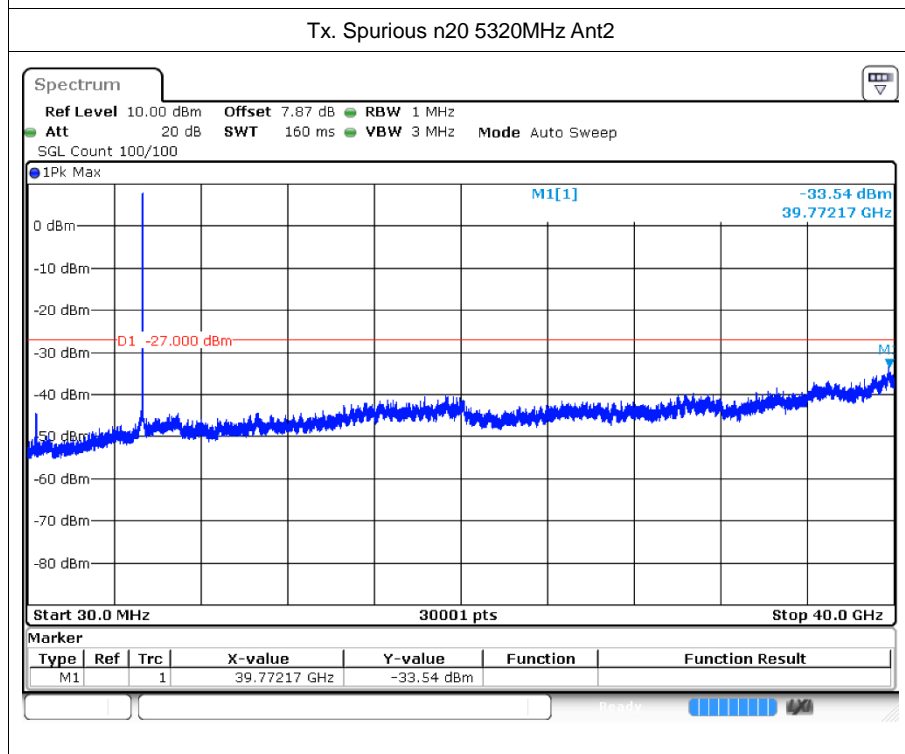
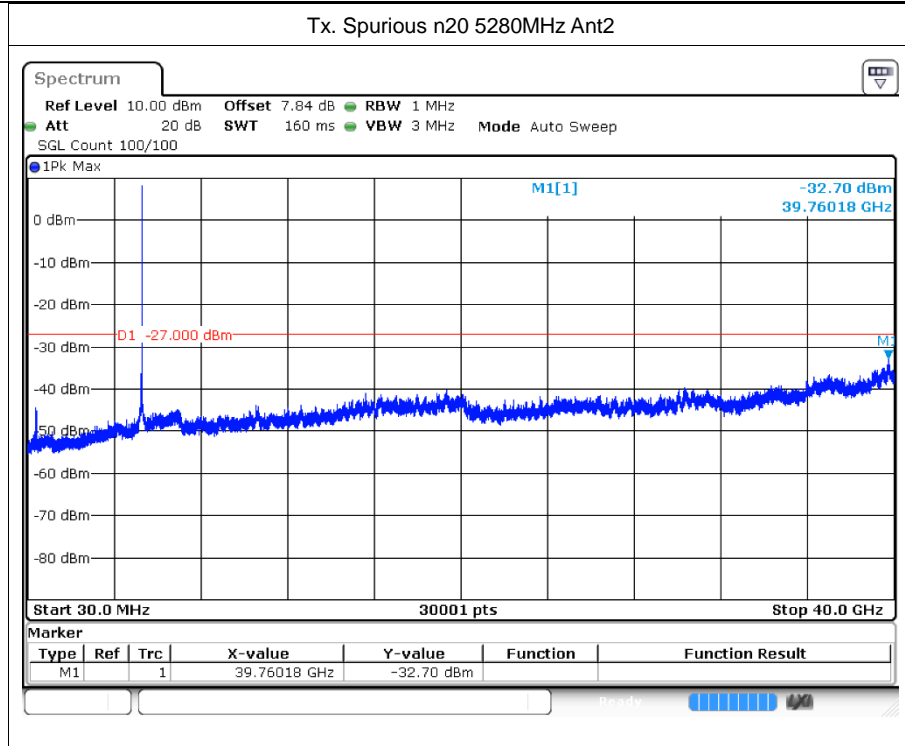


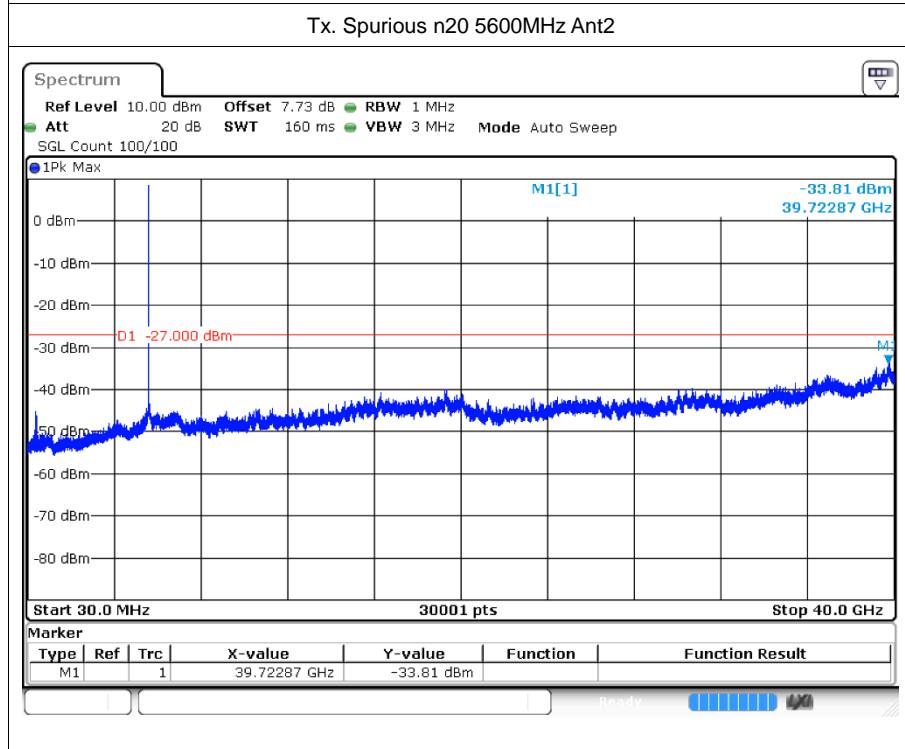
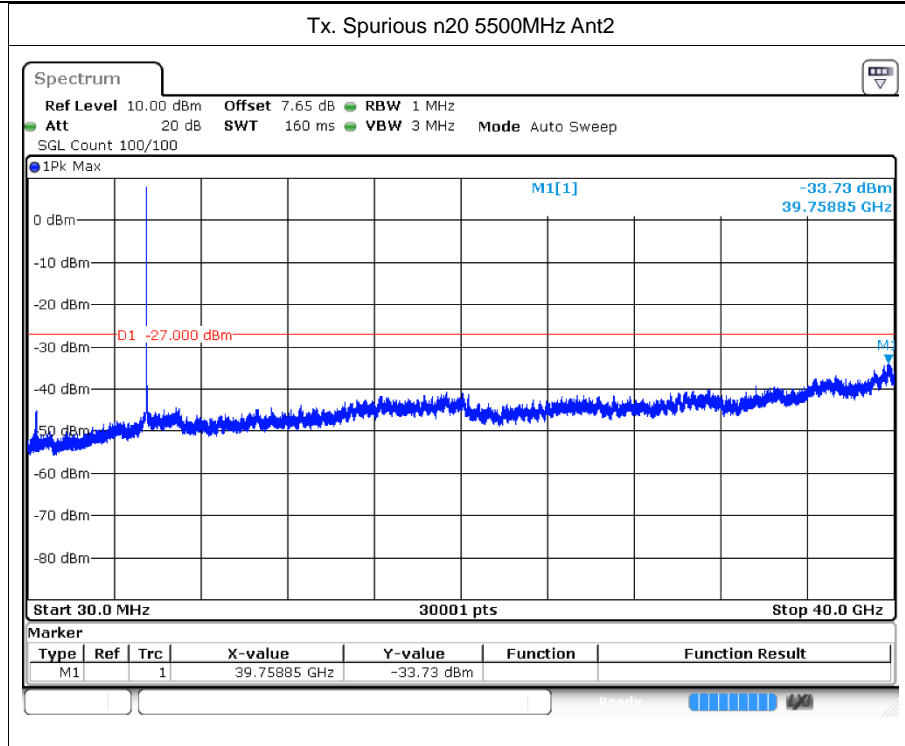


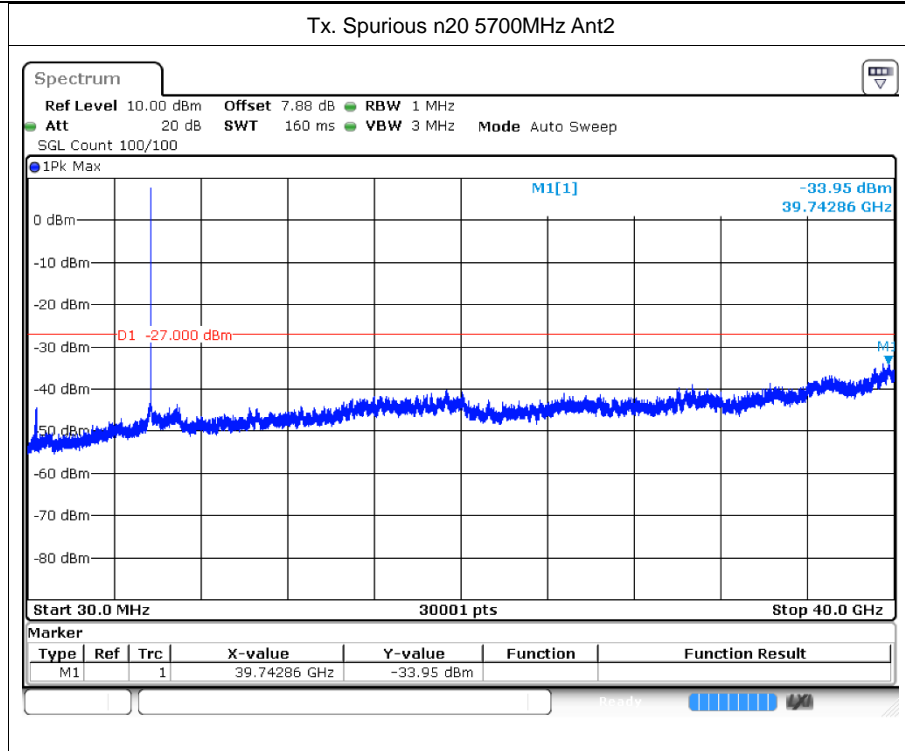


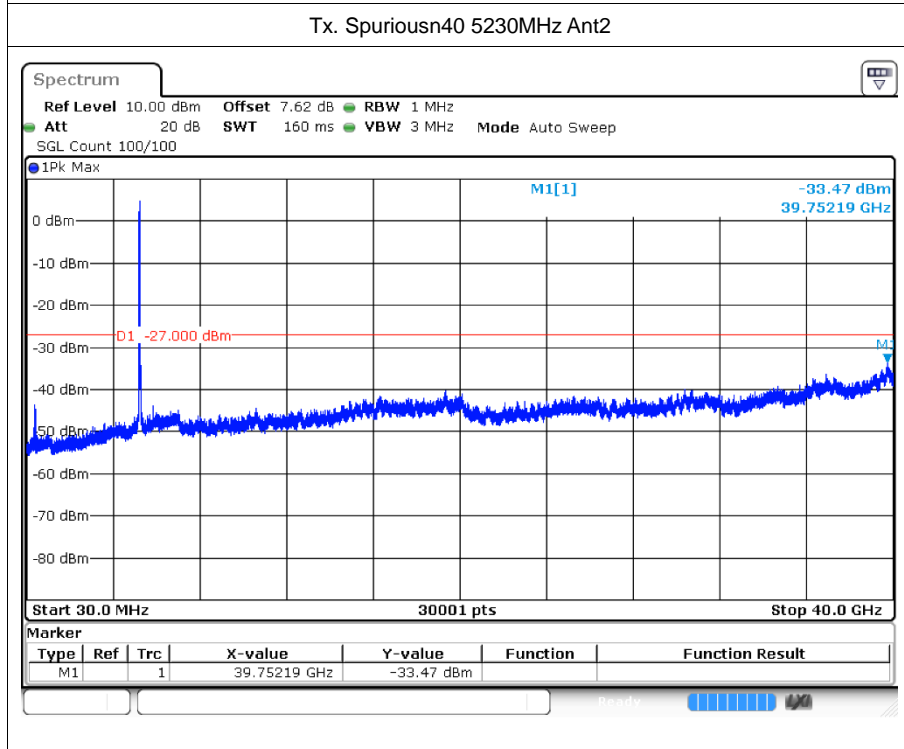
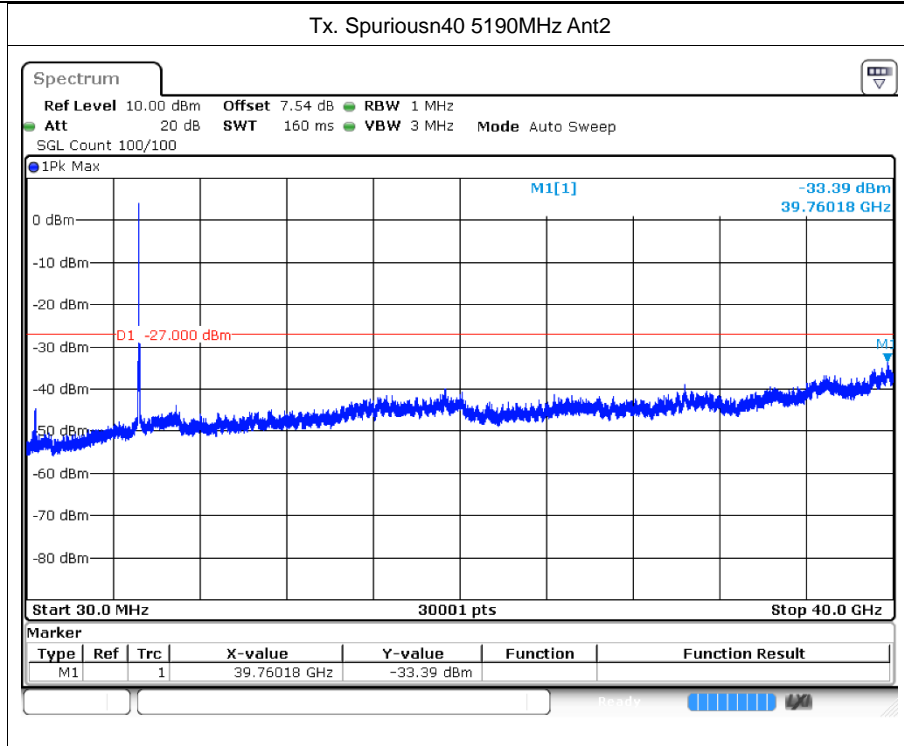


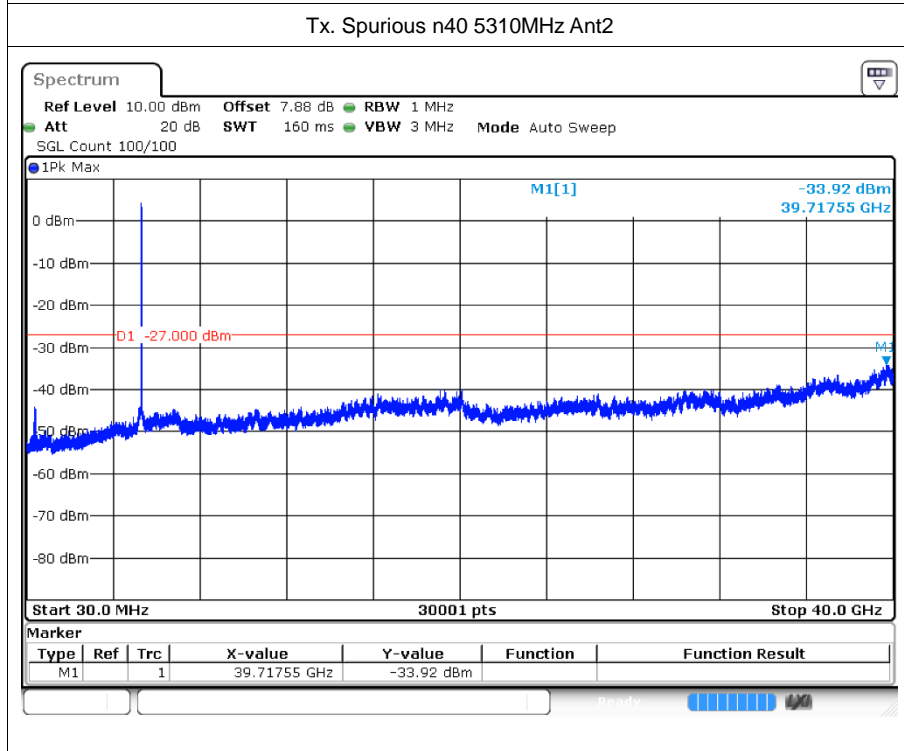
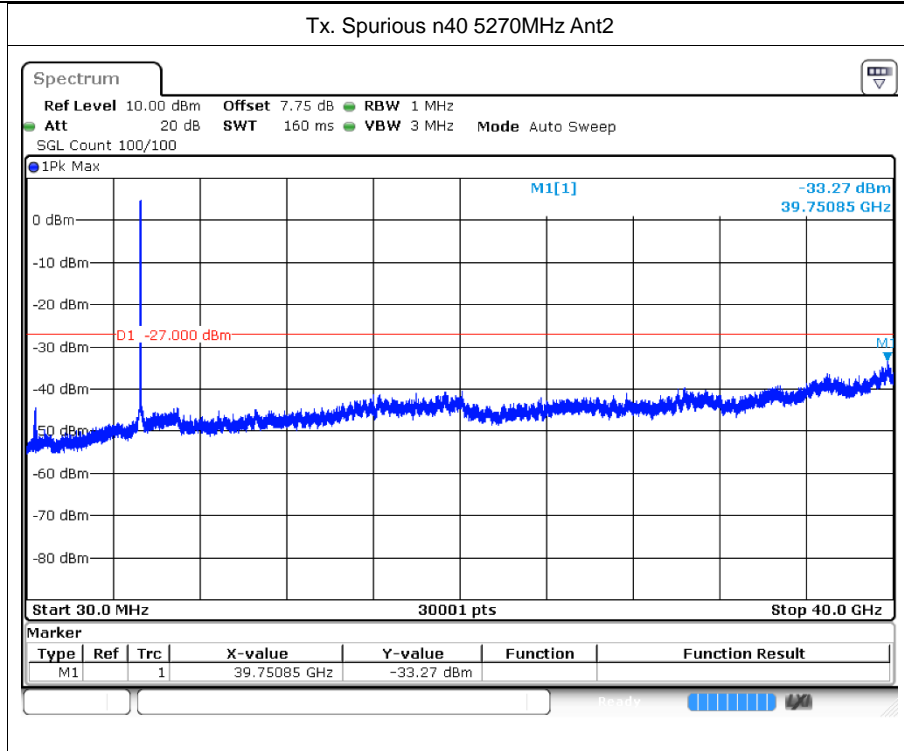


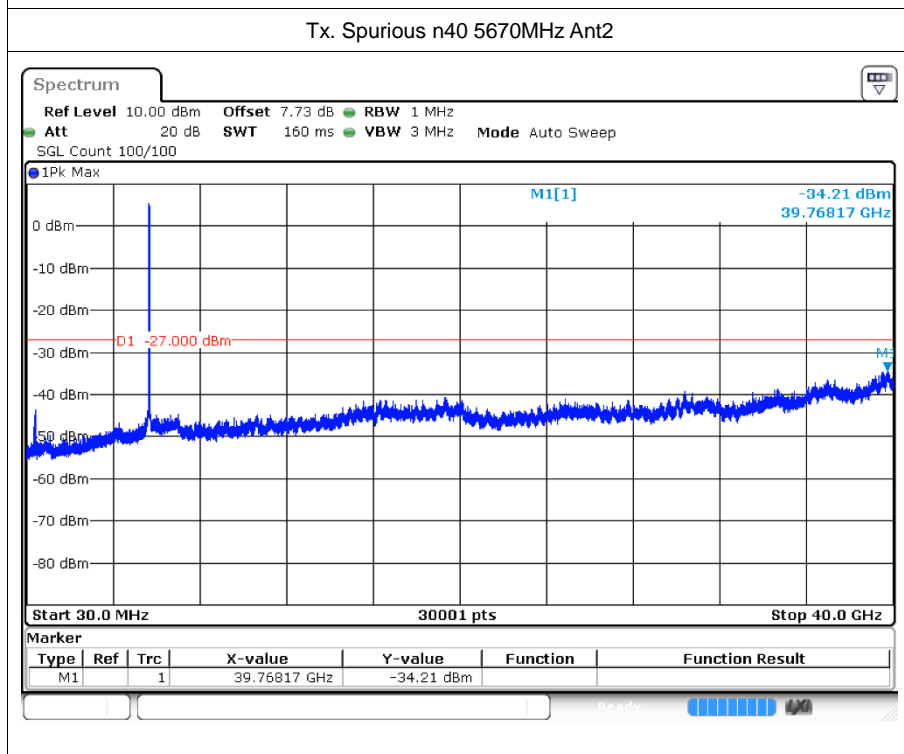
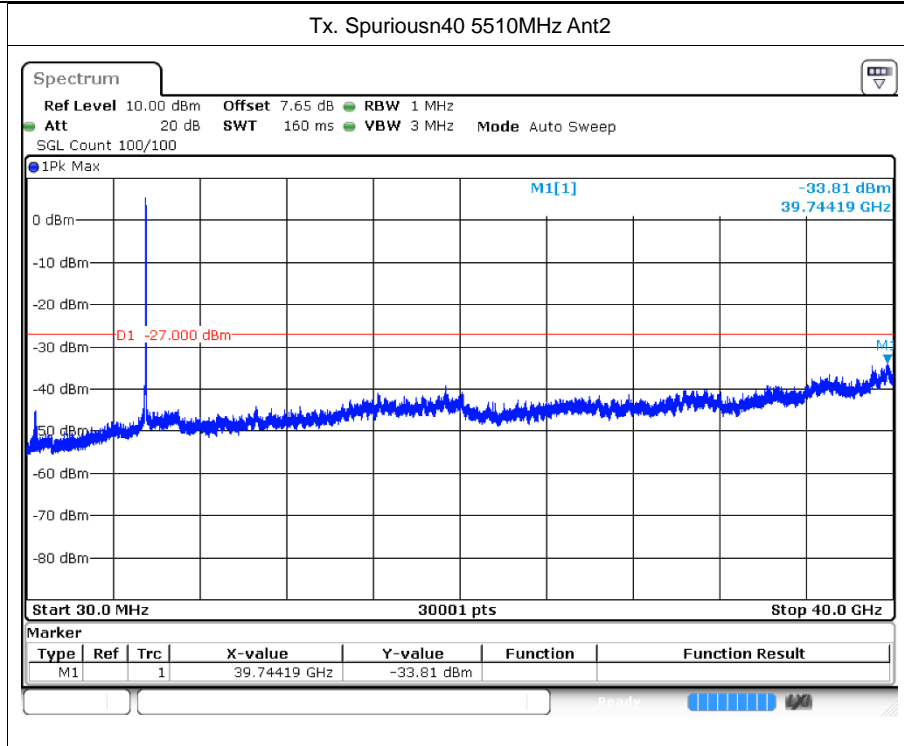


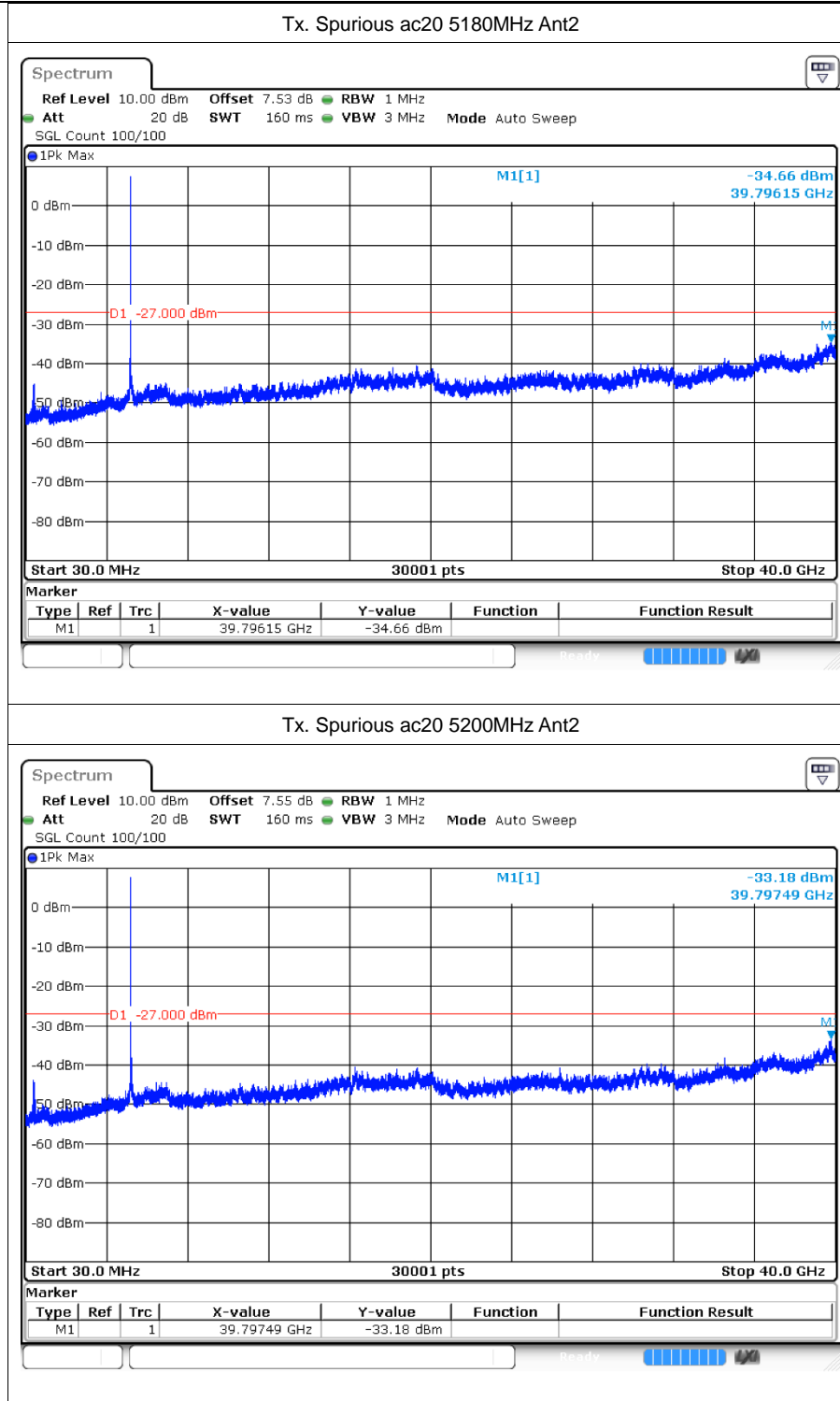


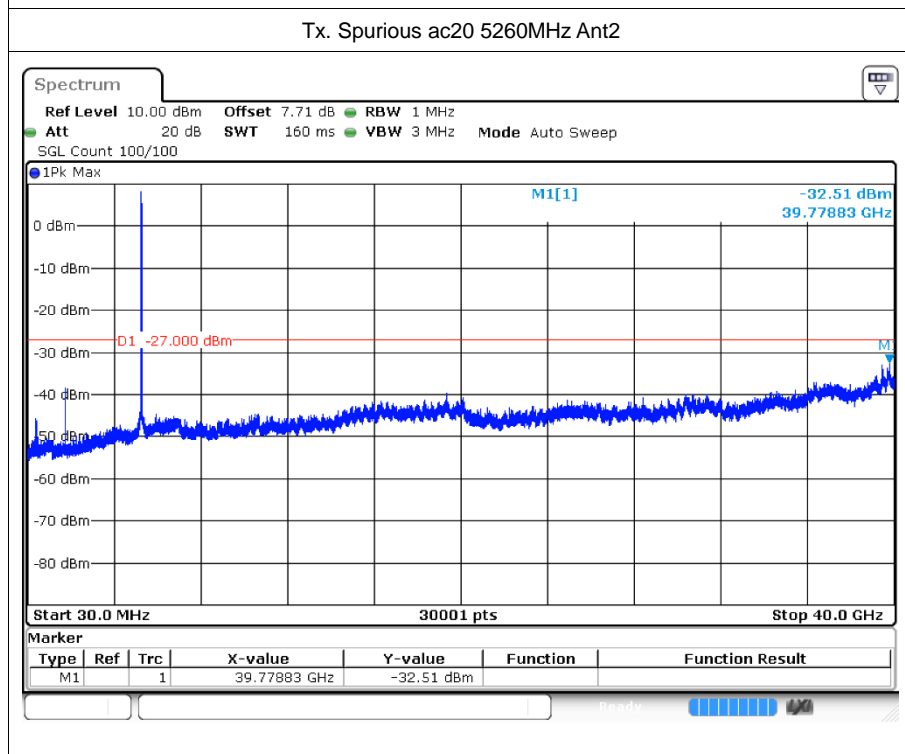
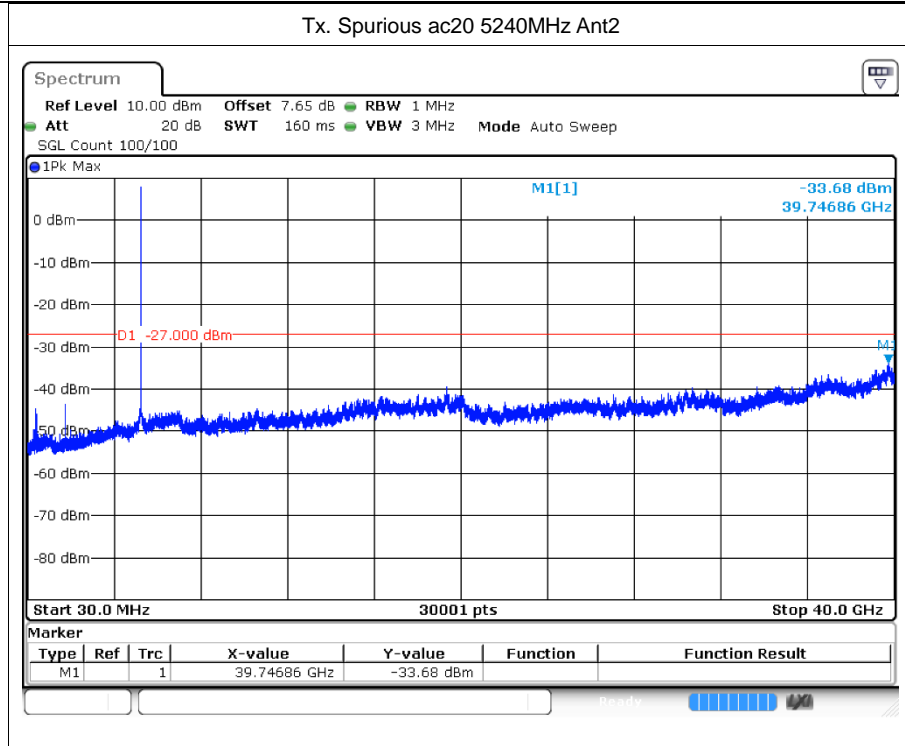


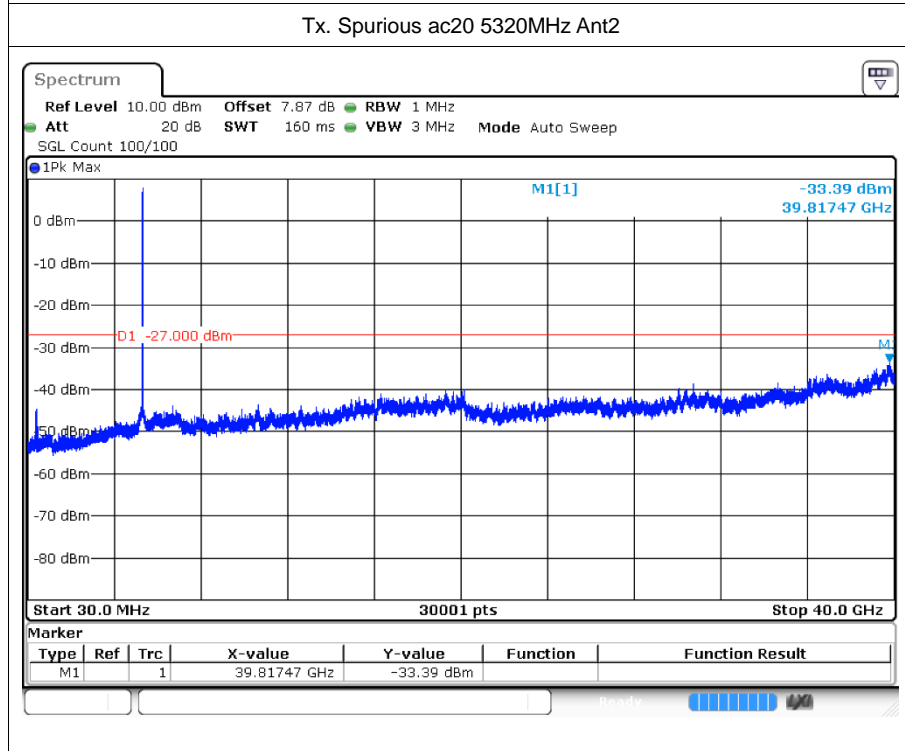
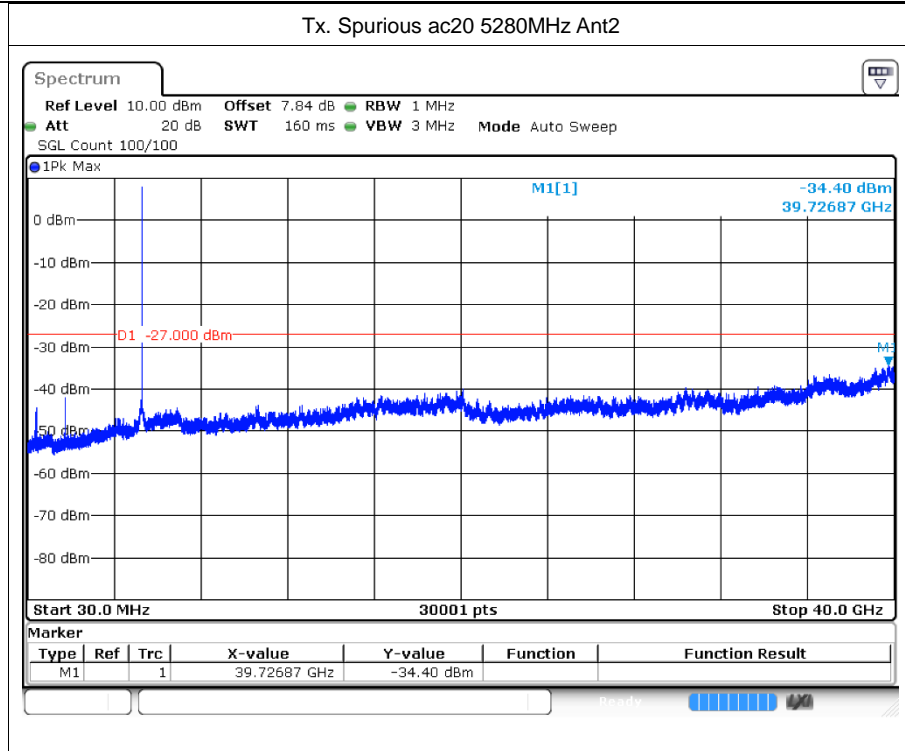


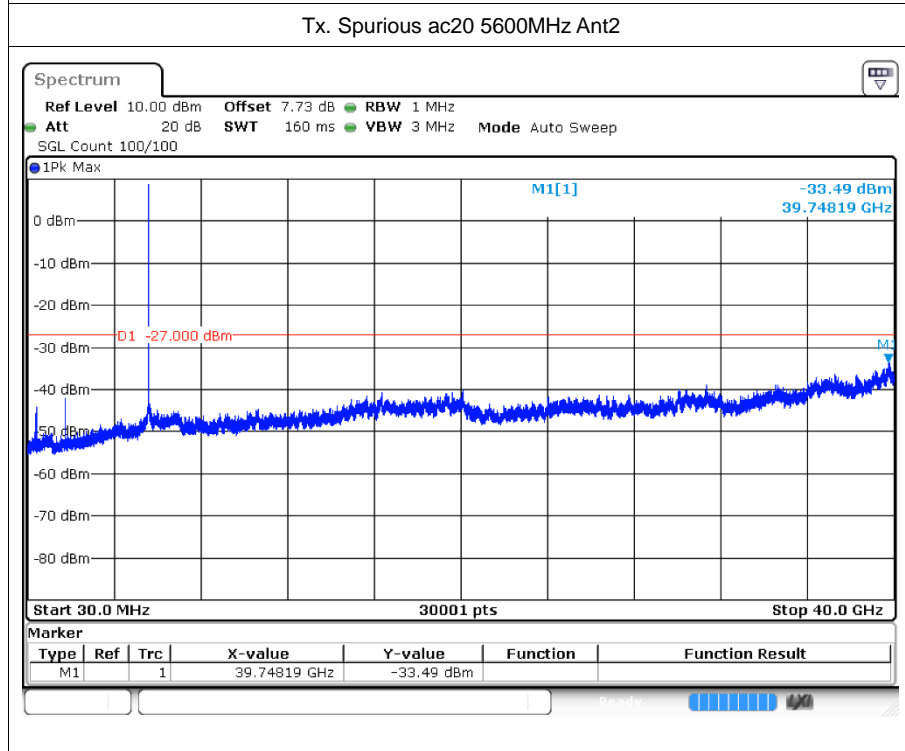
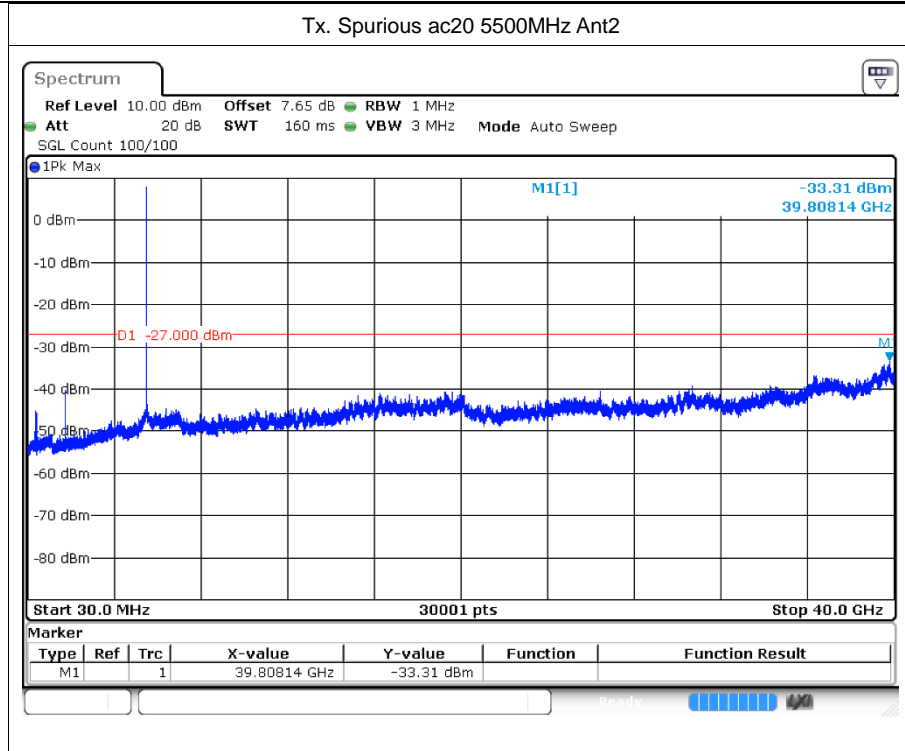


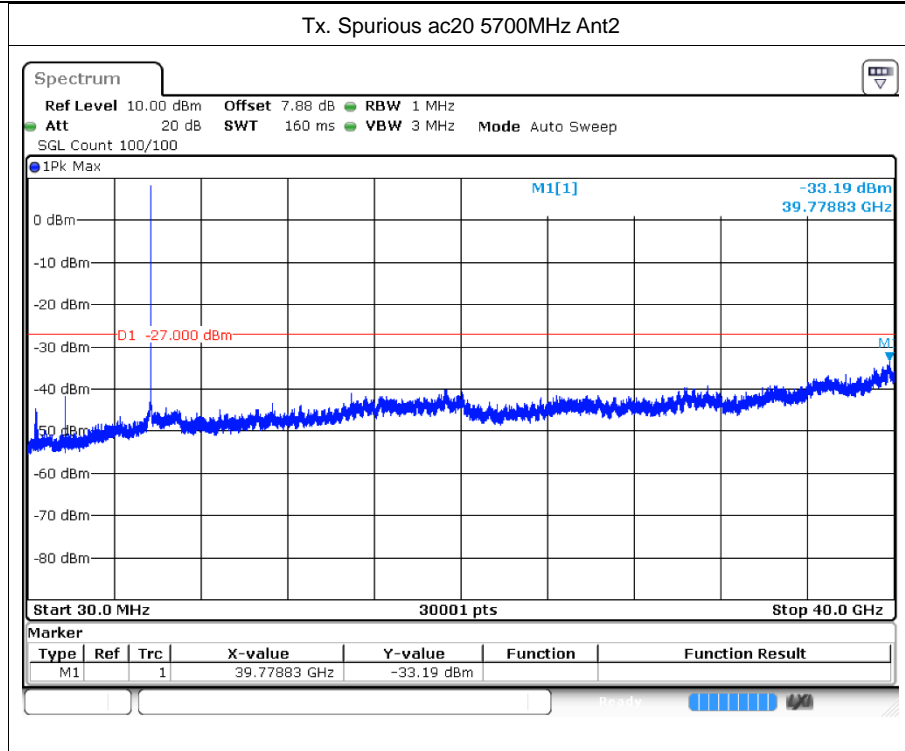


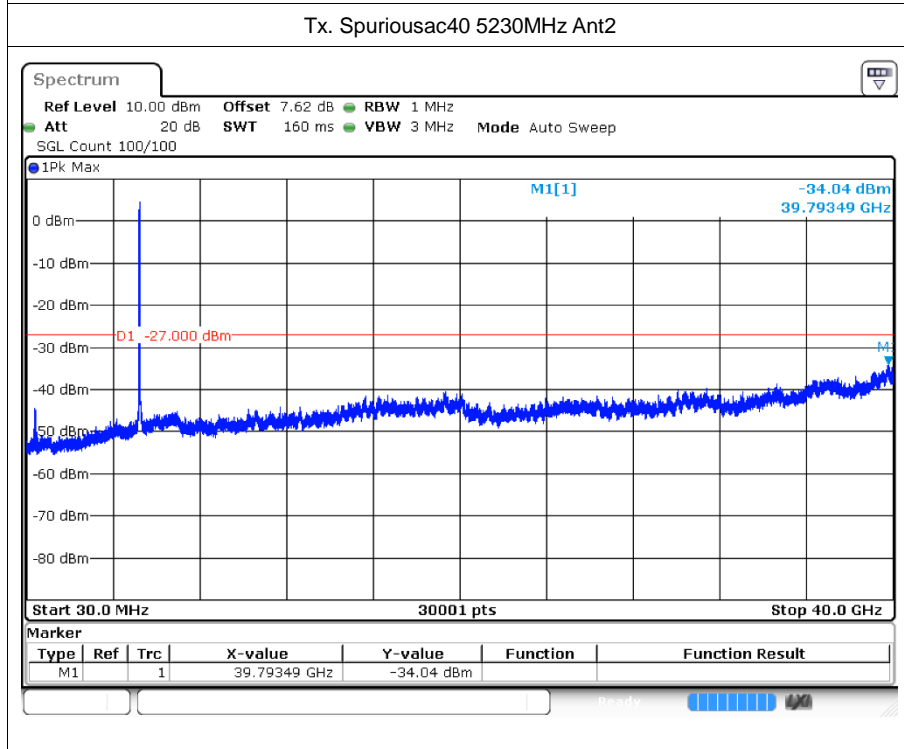
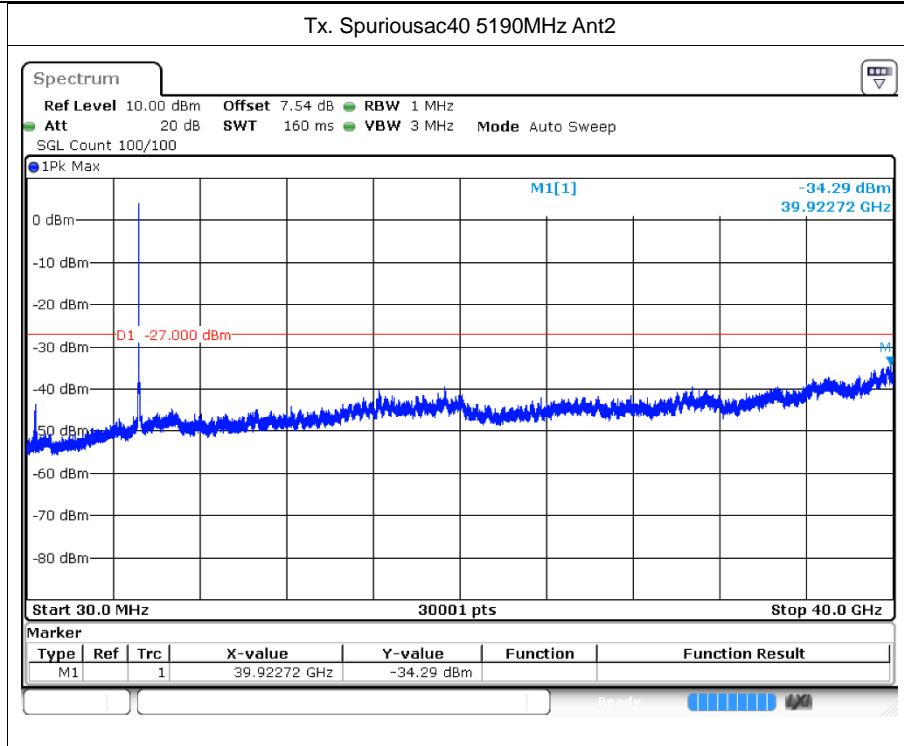


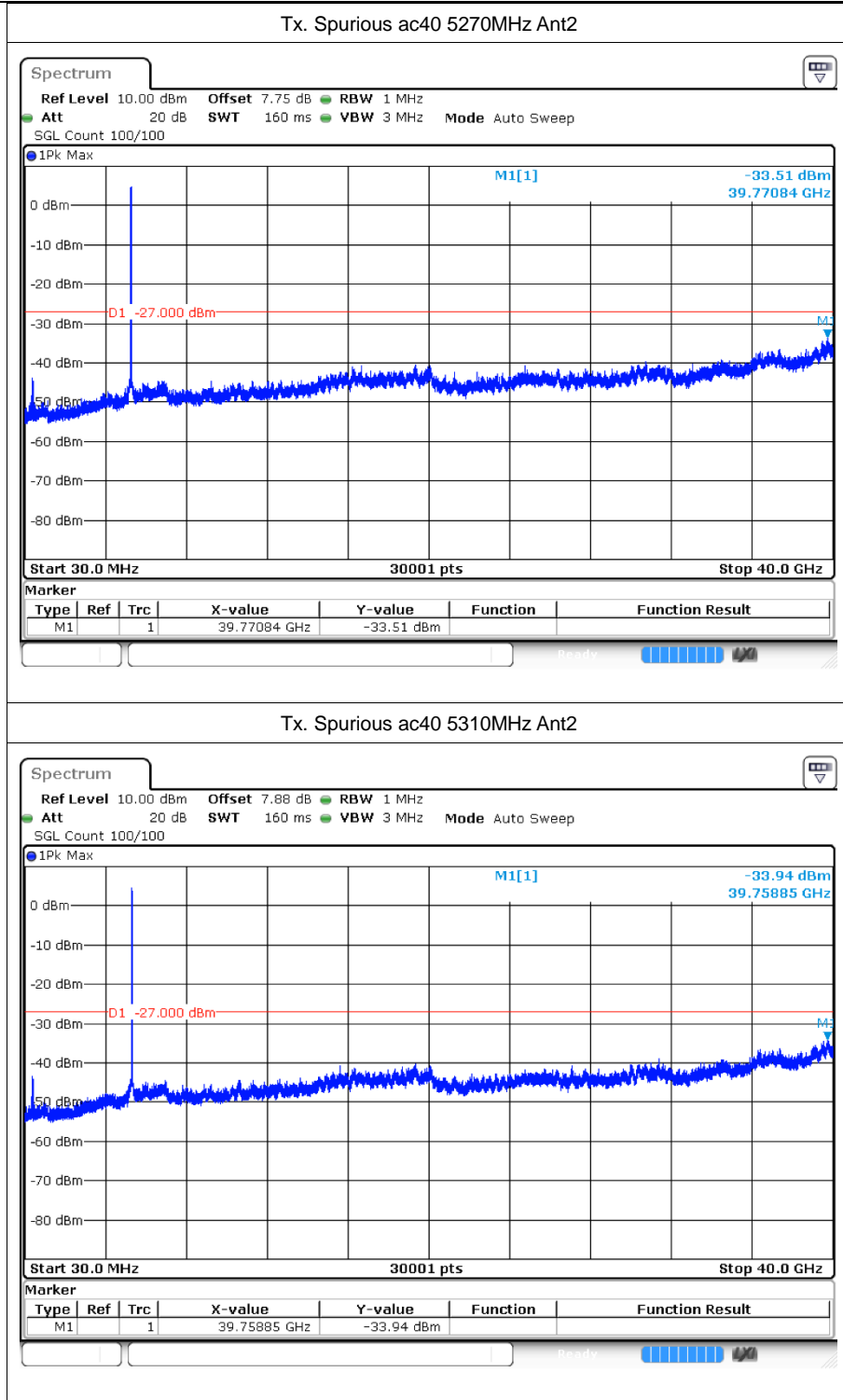


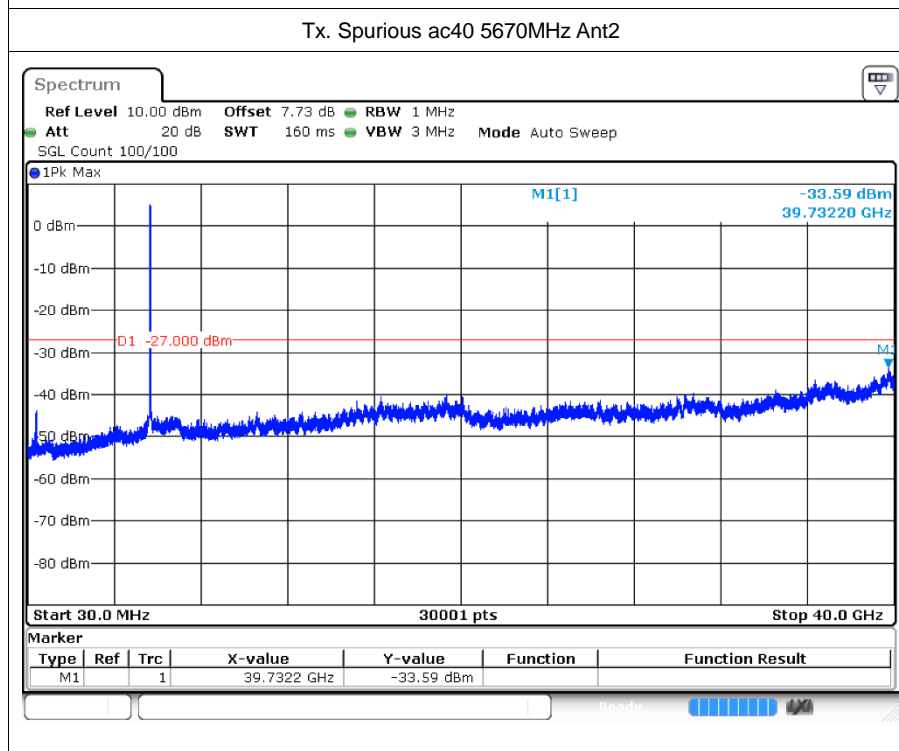
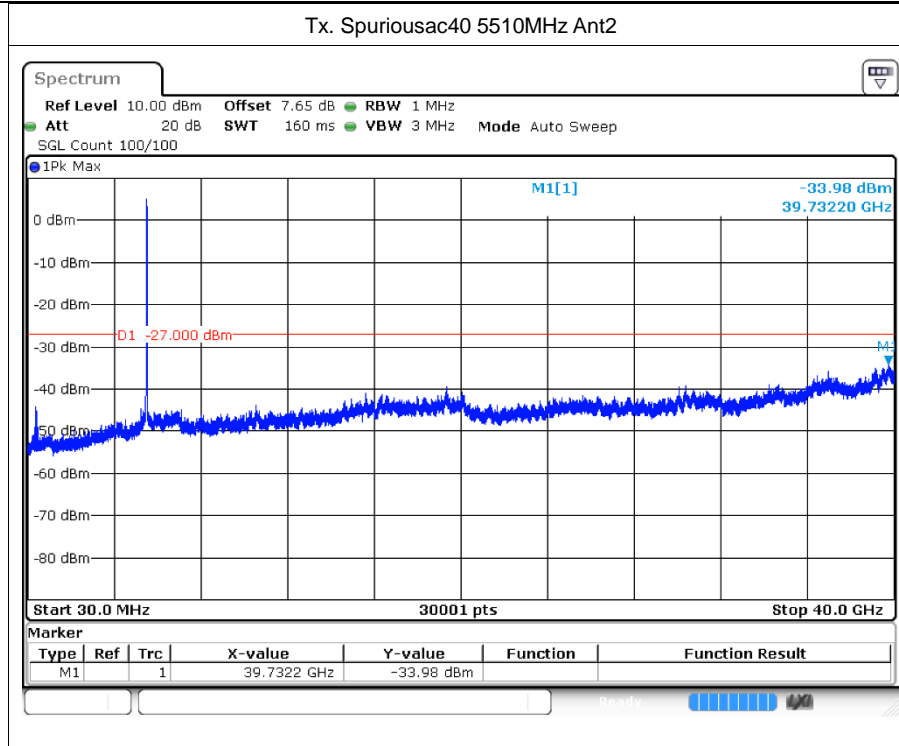


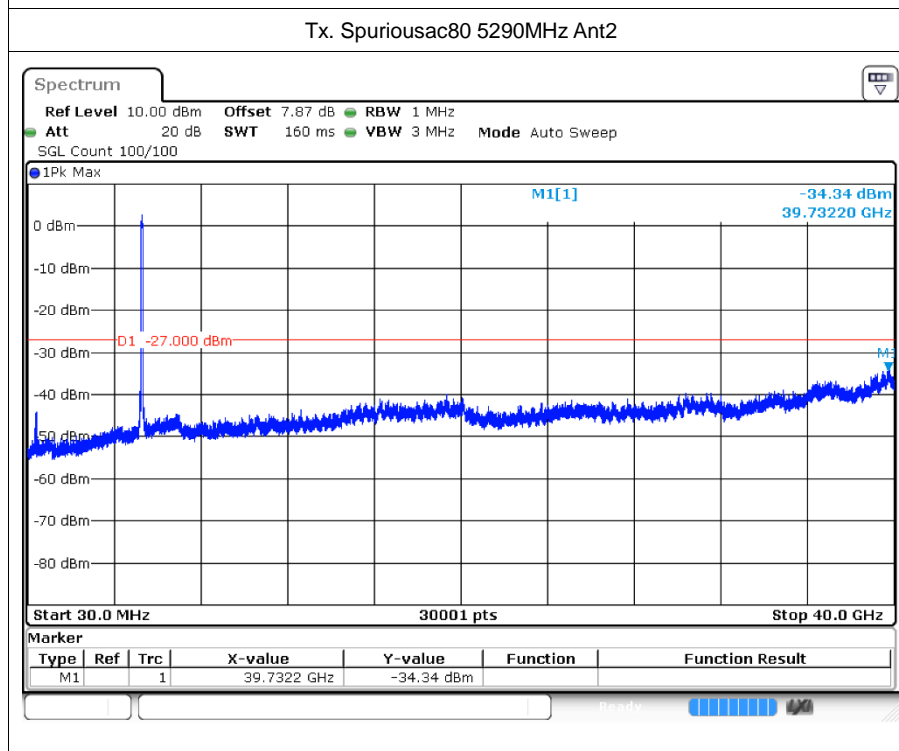
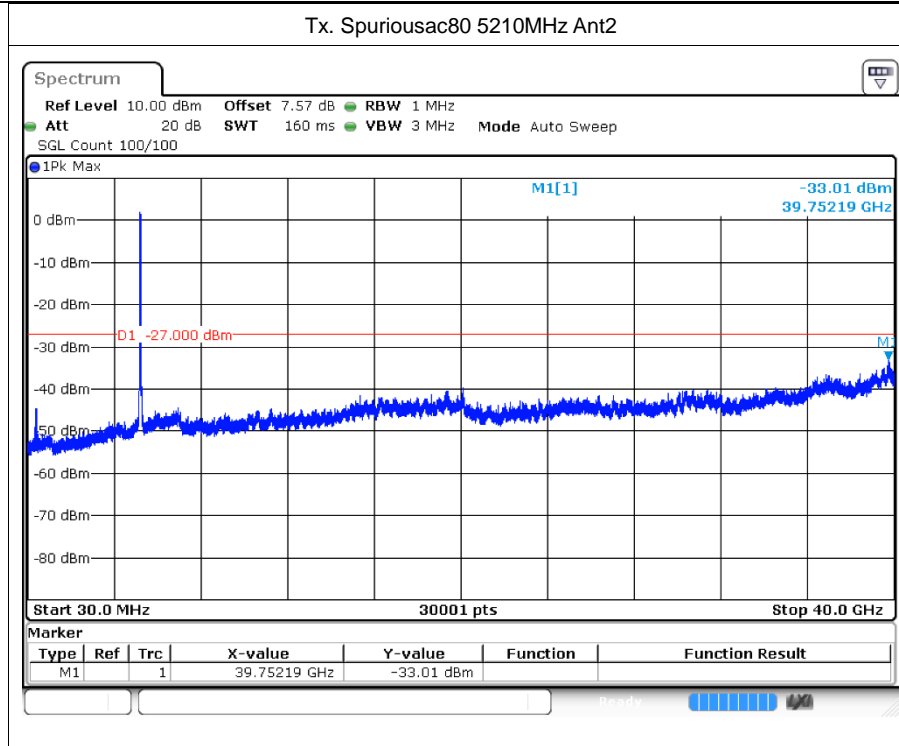


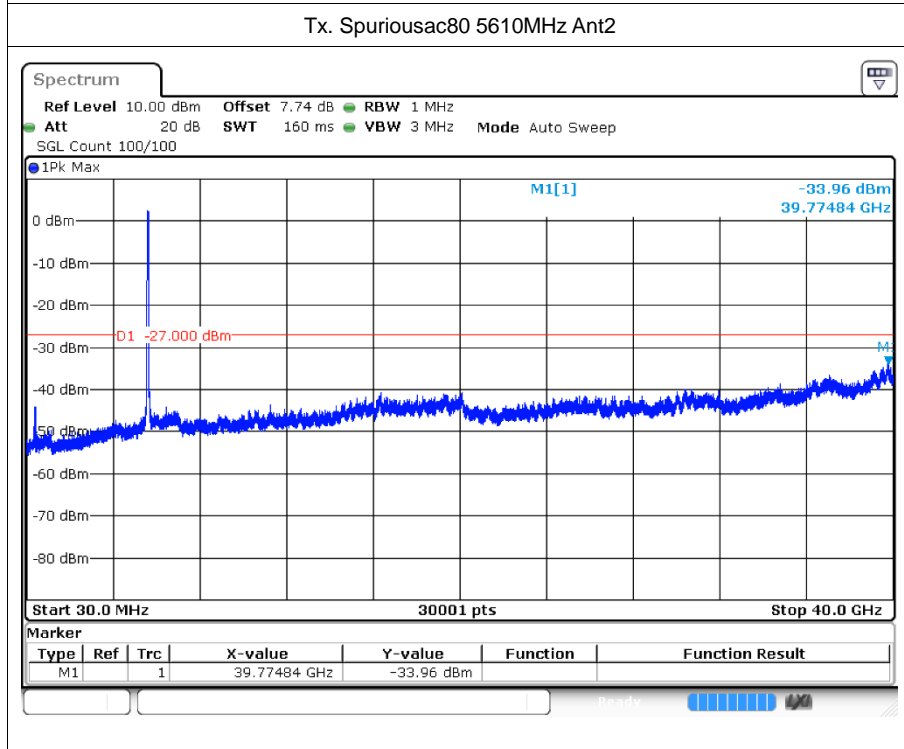
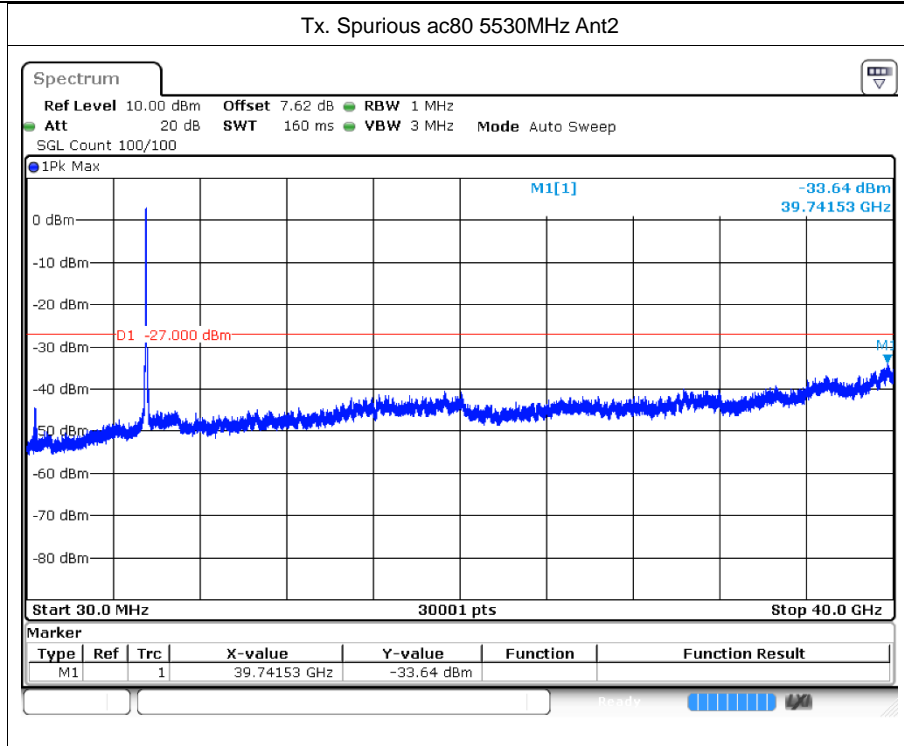














8 Restrict Band

8.1 Test Result

Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Gain (dBi)	Power (dBm)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
a	5180	Ant1	4500	3	-41.47	56.76	Peak	68.2	Pass
a	5180	Ant1	4500	3	-50.89	47.34	Average	54	Pass
a	5180	Ant1	4792.6	3	-37.98	60.25	Peak	68.2	Pass
a	5180	Ant1	5034.1	3	-47.75	50.48	Average	54	Pass
a	5180	Ant1	5150	3	-40.04	58.19	Peak	68.2	Pass
a	5180	Ant1	5150	3	-50.22	48.01	Average	54	Pass
a	5240	Ant1	5350	3	-39.18	59.05	Peak	68.2	Pass
a	5240	Ant1	5350	3	-50.1	48.13	Average	54	Pass
a	5240	Ant1	5451.6	3	-37.33	60.9	Peak	68.2	Pass
a	5240	Ant1	5446.56	3	-48.15	50.08	Average	54	Pass
a	5240	Ant1	5460	3	-43.58	54.65	Peak	68.2	Pass
a	5240	Ant1	5460	3	-51.94	46.29	Average	54	Pass
a	5260	Ant1	4500	3	-42.69	55.54	Peak	68.2	Pass
a	5260	Ant1	4500	3	-51.05	47.18	Average	54	Pass
a	5260	Ant1	4552.26	3	-38.46	59.77	Peak	68.2	Pass
a	5260	Ant1	4897.8	3	-48.06	50.17	Average	54	Pass
a	5260	Ant1	5150	3	-40.92	57.31	Peak	68.2	Pass
a	5260	Ant1	5150	3	-51.49	46.74	Average	54	Pass
a	5320	Ant1	5350	3	-41.75	56.48	Peak	68.2	Pass
a	5320	Ant1	5350	3	-50.56	47.67	Average	54	Pass
a	5320	Ant1	5370.4	3	-38.13	60.1	Peak	68.2	Pass
a	5320	Ant1	5447.8	3	-48.31	49.92	Average	54	Pass
a	5320	Ant1	5460	3	-45.12	53.11	Peak	68.2	Pass
a	5320	Ant1	5460	3	-51.31	46.92	Average	54	Pass
a	5500	Ant1	5460	3	-40.76	57.47	Peak	68.2	Pass
a	5500	Ant1	5460	3	-49.1	49.13	Average	54	Pass
a	5500	Ant1	5463.6	3	-38.02	60.21	Peak	68.2	Pass
a	5500	Ant1	5467.4	3	-48.48	49.75	Average	54	Pass
a	5500	Ant1	5470	3	-38.54	59.69	Peak	68.2	Pass
a	5500	Ant1	5470	3	-49.27	48.96	Average	54	Pass
a	5700	Ant1	5725	3	-43.08	55.15	Peak	68.2	Pass
a	5700	Ant1	5725	3	-54.03	44.2	Average	54	Pass
a	5700	Ant1	5725	3	-43.08	55.15	Peak	68.2	Pass
a	5700	Ant1	5725.8	3	-53.95	44.28	Average	54	Pass
a	5700	Ant1	5735	3	-46.19	52.04	Peak	68.2	Pass



a	5700	Ant1	5735	3	-54.63	43.6	Average	54	Pass
n20	5180	Ant1	4500	3	-40.77	57.46	Peak	68.2	Pass
n20	5180	Ant1	4500	3	-51.1	47.13	Average	54	Pass
n20	5180	Ant1	4812.9	3	-38.17	60.06	Peak	68.2	Pass
n20	5180	Ant1	4962.7	3	-47.65	50.58	Average	54	Pass
n20	5180	Ant1	5150	3	-40.79	57.44	Peak	68.2	Pass
n20	5180	Ant1	5150	3	-50.37	47.86	Average	54	Pass
n20	5240	Ant1	5350	3	-40.05	58.18	Peak	68.2	Pass
n20	5240	Ant1	5350	3	-50.3	47.93	Average	54	Pass
n20	5240	Ant1	5391.6	3	-38.11	60.12	Peak	68.2	Pass
n20	5240	Ant1	5446.56	3	-47.84	50.39	Average	54	Pass
n20	5240	Ant1	5460	3	-42.04	56.19	Peak	68.2	Pass
n20	5240	Ant1	5460	3	-51.41	46.82	Average	54	Pass
n20	5260	Ant1	4500	3	-41.83	56.4	Peak	68.2	Pass
n20	5260	Ant1	4500	3	-50.94	47.29	Average	54	Pass
n20	5260	Ant1	4758.96	3	-38.01	60.22	Peak	68.2	Pass
n20	5260	Ant1	5025.72	3	-48.11	50.12	Average	54	Pass
n20	5260	Ant1	5150	3	-41.1	57.13	Peak	68.2	Pass
n20	5260	Ant1	5150	3	-51.49	46.74	Average	54	Pass
n20	5320	Ant1	5350	3	-41.95	56.28	Peak	68.2	Pass
n20	5320	Ant1	5350	3	-51.03	47.2	Average	54	Pass
n20	5320	Ant1	5368	3	-37.98	60.25	Peak	68.2	Pass
n20	5320	Ant1	5448	3	-48.12	50.11	Average	54	Pass
n20	5320	Ant1	5460	3	-44.74	53.49	Peak	68.2	Pass
n20	5320	Ant1	5460	3	-51.41	46.82	Average	54	Pass
n20	5500	Ant1	5460	3	-40.69	57.54	Peak	68.2	Pass
n20	5500	Ant1	5460	3	-49.58	48.65	Average	54	Pass
n20	5500	Ant1	5467.4	3	-39.38	58.85	Peak	68.2	Pass
n20	5500	Ant1	5468.4	3	-48.53	49.7	Average	54	Pass
n20	5500	Ant1	5470	3	-40.66	57.57	Peak	68.2	Pass
n20	5500	Ant1	5470	3	-49.39	48.84	Average	54	Pass
n20	5700	Ant1	5725	3	-40.69	57.54	Peak	68.2	Pass
n20	5700	Ant1	5725	3	-48.83	49.4	Average	54	Pass
n20	5700	Ant1	5726.2	3	-39.13	59.1	Peak	68.2	Pass
n20	5700	Ant1	5734.4	3	-48.17	50.06	Average	54	Pass
n20	5700	Ant1	5735	3	-40.81	57.42	Peak	68.2	Pass
n20	5700	Ant1	5735	3	-48.48	49.75	Average	54	Pass
n40	5190	Ant1	4500	3	-41.84	56.39	Peak	68.2	Pass
n40	5190	Ant1	4500	3	-50.7	47.53	Average	54	Pass
n40	5190	Ant1	5035.09	3	-38.45	59.78	Peak	68.2	Pass
n40	5190	Ant1	4964.28	3	-47.47	50.76	Average	54	Pass
n40	5190	Ant1	5150	3	-39.91	58.32	Peak	68.2	Pass
n40	5190	Ant1	5150	3	-49.7	48.53	Average	54	Pass



n40	5230	Ant1	5350	3	-42.35	55.88	Peak	68.2	Pass
n40	5230	Ant1	5350	3	-51.25	46.98	Average	54	Pass
n40	5230	Ant1	5450.28	3	-37.25	60.98	Peak	68.2	Pass
n40	5230	Ant1	5448.12	3	-47.82	50.41	Average	54	Pass
n40	5230	Ant1	5460	3	-42.97	55.26	Peak	68.2	Pass
n40	5230	Ant1	5460	3	-51.6	46.63	Average	54	Pass
n40	5270	Ant1	4500	3	-42.25	55.98	Peak	68.2	Pass
n40	5270	Ant1	4500	3	-50.77	47.46	Average	54	Pass
n40	5270	Ant1	4717.89	3	-37.78	60.45	Peak	68.2	Pass
n40	5270	Ant1	4961.7	3	-47.45	50.78	Average	54	Pass
n40	5270	Ant1	5150	3	-41.24	56.99	Peak	68.2	Pass
n40	5270	Ant1	5150	3	-50.55	47.68	Average	54	Pass
n40	5310	Ant1	5350	3	-43.85	54.38	Peak	68.2	Pass
n40	5310	Ant1	5350	3	-49.97	48.26	Average	54	Pass
n40	5310	Ant1	5449.4	3	-37.59	60.64	Peak	68.2	Pass
n40	5310	Ant1	5350.8	3	-48.83	49.4	Average	54	Pass
n40	5310	Ant1	5460	3	-41.12	57.11	Peak	68.2	Pass
n40	5310	Ant1	5460	3	-50.06	48.17	Average	54	Pass
n40	5510	Ant1	5460	3	-40.5	57.73	Peak	68.2	Pass
n40	5510	Ant1	5460	3	-49.12	49.11	Average	54	Pass
n40	5510	Ant1	5461.4	3	-38.85	59.38	Peak	68.2	Pass
n40	5510	Ant1	-49.12	3	-49.12	49.11	Average	54	Pass
n40	5510	Ant1	5470	3	-42.65	55.58	Peak	68.2	Pass
n40	5510	Ant1	5470	3	-49.79	48.44	Average	54	Pass
n40	5670	Ant1	5725	3	-40.74	57.49	Peak	68.2	Pass
n40	5670	Ant1	5725	3	-48.06	50.17	Average	54	Pass
n40	5670	Ant1	5726.2	3	-36.83	61.4	Peak	68.2	Pass
n40	5670	Ant1	5725	3	-48.06	50.17	Average	54	Pass
n40	5670	Ant1	-39.16	3	-39.16	59.07	Peak	68.2	Pass
n40	5670	Ant1	5735	3	-49.73	48.5	Average	54	Pass
ac20	5180	Ant1	4500	3	-41.1	57.13	Peak	68.2	Pass
ac20	5180	Ant1	4500	3	-50.98	47.25	Average	54	Pass
ac20	5180	Ant1	4957.8	3	-37.83	60.4	Peak	68.2	Pass
ac20	5180	Ant1	4963.4	3	-48.03	50.2	Average	54	Pass
ac20	5180	Ant1	5150	3	-38.44	59.79	Peak	68.2	Pass
ac20	5180	Ant1	5150	3	-50.2	48.03	Average	54	Pass
ac20	5240	Ant1	5350	3	-41.77	56.46	Peak	68.2	Pass
ac20	5240	Ant1	5350	3	-50.11	48.12	Average	54	Pass
ac20	5240	Ant1	5452.56	3	-38.23	60	Peak	68.2	Pass
ac20	5240	Ant1	5446.56	3	-48.06	50.17	Average	54	Pass
ac20	5240	Ant1	5460	3	-43.9	54.33	Peak	68.2	Pass
ac20	5240	Ant1	5460	3	-52.14	46.09	Average	54	Pass
ac20	5260	Ant1	4500	3	-41.14	57.09	Peak	68.2	Pass



ac20	5260	Ant1	4500	3	-50.95	47.28	Average	54	Pass
ac20	5260	Ant1	4931.34	3	-37.47	60.76	Peak	68.2	Pass
ac20	5260	Ant1	4897.8	3	-48.18	50.05	Average	54	Pass
ac20	5260	Ant1	5150	3	-40.03	58.2	Peak	68.2	Pass
ac20	5260	Ant1	5150	3	-51.67	46.56	Average	54	Pass
ac20	5320	Ant1	5350	3	-42.32	55.91	Peak	68.2	Pass
ac20	5320	Ant1	5350	3	-51.3	46.93	Average	54	Pass
ac20	5320	Ant1	5447.4	3	-36.58	61.65	Peak	68.2	Pass
ac20	5320	Ant1	5447.4	3	-47.94	50.29	Average	54	Pass
ac20	5320	Ant1	5460	3	-43.77	54.46	Peak	68.2	Pass
ac20	5320	Ant1	5460	3	-51.3	46.93	Average	54	Pass
ac20	5500	Ant1	5460	3	-40.2	58.03	Peak	68.2	Pass
ac20	5500	Ant1	5460	3	-49.54	48.69	Average	54	Pass
ac20	5500	Ant1	5469	3	-36.02	62.21	Peak	68.2	Pass
ac20	5500	Ant1	5467.4	3	-48.82	49.41	Average	54	Pass
ac20	5500	Ant1	5470	3	-39.87	58.36	Peak	68.2	Pass
ac20	5500	Ant1	5470	3	-49.51	48.72	Average	54	Pass
ac20	5700	Ant1	5725	3	-39.05	59.18	Peak	68.2	Pass
ac20	5700	Ant1	5725	3	-48.78	49.45	Average	54	Pass
ac20	5700	Ant1	5734.8	3	-38.02	60.21	Peak	68.2	Pass
ac20	5700	Ant1	5734	3	-48.29	49.94	Average	54	Pass
ac20	5700	Ant1	5735	3	-38.23	60	Peak	68.2	Pass
ac20	5700	Ant1	5735	3	-48.65	49.58	Average	54	Pass
ac40	5190	Ant1	4500	3	-40.5	57.73	Peak	68.2	Pass
ac40	5190	Ant1	4500	3	-50.6	47.63	Average	54	Pass
ac40	5190	Ant1	4953.33	3	-38.19	60.04	Peak	68.2	Pass
ac40	5190	Ant1	4964.28	3	-47.39	50.84	Average	54	Pass
ac40	5190	Ant1	5150	3	-40.61	57.62	Peak	68.2	Pass
ac40	5190	Ant1	5150	3	-49.58	48.65	Average	54	Pass
ac40	5230	Ant1	5350	3	-39.2	59.03	Peak	68.2	Pass
ac40	5230	Ant1	5350	3	-51.31	46.92	Average	54	Pass
ac40	5230	Ant1	5447.85	3	-37.89	60.34	Peak	68.2	Pass
ac40	5230	Ant1	5447.31	3	-47.92	50.31	Average	54	Pass
ac40	5230	Ant1	5460	3	-43.07	55.16	Peak	68.2	Pass
ac40	5230	Ant1	5460	3	-51.88	46.35	Average	54	Pass
ac40	5270	Ant1	4500	3	-42.45	55.78	Peak	68.2	Pass
ac40	5270	Ant1	4500	3	-50.75	47.48	Average	54	Pass
ac40	5270	Ant1	4892.85	3	-37.96	60.27	Peak	68.2	Pass
ac40	5270	Ant1	4961.7	3	-47.41	50.82	Average	54	Pass
ac40	5270	Ant1	5150	3	-40.32	57.91	Peak	68.2	Pass
ac40	5270	Ant1	5150	3	-50.77	47.46	Average	54	Pass
ac40	5310	Ant1	5350	3	-42.81	55.42	Peak	68.2	Pass
ac40	5310	Ant1	5350	3	-49.71	48.52	Average	54	Pass



ac40	5310	Ant1	5452	3	-38.86	59.37	Peak	68.2	Pass
ac40	5310	Ant1	5457.6	3	-48.72	49.51	Average	54	Pass
ac40	5310	Ant1	5460	3	-40.92	57.31	Peak	68.2	Pass
ac40	5310	Ant1	5460	3	-50.01	48.22	Average	54	Pass
ac40	5510	Ant1	5460	3	-40.44	57.79	Peak	68.2	Pass
ac40	5510	Ant1	5460	3	-49.33	48.9	Average	54	Pass
ac40	5510	Ant1	5463.6	3	-39.1	59.13	Peak	68.2	Pass
ac40	5510	Ant1	-49.3	3	-49.3	48.93	Average	54	Pass
ac40	5510	Ant1	5470	3	-42.62	55.61	Peak	68.2	Pass
ac40	5510	Ant1	5470	3	-49.52	48.71	Average	54	Pass
ac40	5670	Ant1	5725	3	-39.12	59.11	Peak	68.2	Pass
ac40	5670	Ant1	5725	3	-48.02	50.21	Average	54	Pass
ac40	5670	Ant1	5725.8	3	-37.99	60.24	Peak	68.2	Pass
ac40	5670	Ant1	5725	3	-48.02	50.21	Average	54	Pass
ac40	5670	Ant1	-40.25	3	-40.25	57.98	Peak	68.2	Pass
ac40	5670	Ant1	5735	3	-49.85	48.38	Average	54	Pass
ac80	5210	Ant1	4500	3	-41.97	56.26	Peak	68.2	Pass
ac80	5210	Ant1	4500	3	-49.81	48.42	Average	54	Pass
ac80	5210	Ant1	5027.72	3	-38.45	59.78	Peak	68.2	Pass
ac80	5210	Ant1	4966.89	3	-46.74	51.49	Average	54	Pass
ac80	5210	Ant1	5150	3	-39.53	58.7	Peak	68.2	Pass
ac80	5210	Ant1	5150	3	-48.23	50	Average	54	Pass
ac80	5290	Ant1	4500	3	-41.9	56.33	Peak	68.2	Pass
ac80	5290	Ant1	4500	3	-50.02	48.21	Average	54	Pass
ac80	5290	Ant1	4756.65	3	-38.04	60.19	Peak	68.2	Pass
ac80	5290	Ant1	4556.55	3	-47.06	51.17	Average	54	Pass
ac80	5290	Ant1	5150	3	-41.78	56.45	Peak	68.2	Pass
ac80	5290	Ant1	5150	3	-49.79	48.44	Average	54	Pass
ac80	5530	Ant1	5460	3	-38.83	59.4	Peak	68.2	Pass
ac80	5530	Ant1	5460	3	-47.44	50.79	Average	54	Pass
ac80	5530	Ant1	5462	3	-38.56	59.67	Peak	68.2	Pass
ac80	5530	Ant1	5464.2	3	-46.51	51.72	Average	54	Pass
ac80	5530	Ant1	5470	3	-40.62	57.61	Peak	68.2	Pass
ac80	5530	Ant1	5470	3	-48.11	50.12	Average	54	Pass
ac80	5610	Ant1	5725	3	-40.01	58.22	Peak	68.2	Pass
ac80	5610	Ant1	5725	3	-48.23	50	Average	54	Pass
ac80	5610	Ant1	5725.775	3	-38.2	60.03	Peak	68.2	Pass
ac80	5610	Ant1	5729.875	3	-47.98	50.25	Average	54	Pass
ac80	5610	Ant1	5735	3	-42.21	56.02	Peak	68.2	Pass
ac80	5610	Ant1	5735	3	-49.93	48.3	Average	54	Pass
a	5180	Ant2	4500	3	-41.55	56.68	Peak	68.2	Pass
a	5180	Ant2	4500	3	-51.37	46.86	Average	54	Pass
a	5180	Ant2	5136.3	3	-38.46	59.77	Peak	68.2	Pass



a	5180	Ant2	5032.7	3	-48.1	50.13	Average	54	Pass
a	5180	Ant2	5150	3	-40.07	58.16	Peak	68.2	Pass
a	5180	Ant2	5150	3	-49.95	48.28	Average	54	Pass
a	5240	Ant2	5350	3	-38.37	59.86	Peak	68.2	Pass
a	5240	Ant2	5350	3	-49.94	48.29	Average	54	Pass
a	5240	Ant2	5369.52	3	-37.79	60.44	Peak	68.2	Pass
a	5240	Ant2	5446.8	3	-48.04	50.19	Average	54	Pass
a	5240	Ant2	5460	3	-43.49	54.74	Peak	68.2	Pass
a	5240	Ant2	5460	3	-51.77	46.46	Average	54	Pass
a	5260	Ant2	4500	3	-41.36	56.87	Peak	68.2	Pass
a	5260	Ant2	4500	3	-50.85	47.38	Average	54	Pass
a	5260	Ant2	4778.46	3	-38.55	59.68	Peak	68.2	Pass
a	5260	Ant2	5025.72	3	-47.92	50.31	Average	54	Pass
a	5260	Ant2	5150	3	-41.73	56.5	Peak	68.2	Pass
a	5260	Ant2	5150	3	-51.09	47.14	Average	54	Pass
a	5320	Ant2	5350	3	-42.39	55.84	Peak	68.2	Pass
a	5320	Ant2	5350	3	-50.53	47.7	Average	54	Pass
a	5320	Ant2	5449.8	3	-38.26	59.97	Peak	68.2	Pass
a	5320	Ant2	5447.2	3	-48.08	50.15	Average	54	Pass
a	5320	Ant2	5460	3	-43.21	55.02	Peak	68.2	Pass
a	5320	Ant2	5460	3	-51.2	47.03	Average	54	Pass
a	5500	Ant2	5460	3	-40.16	58.07	Peak	68.2	Pass
a	5500	Ant2	5460	3	-49.22	49.01	Average	54	Pass
a	5500	Ant2	5468.2	3	-37.72	60.51	Peak	68.2	Pass
a	5500	Ant2	5467.2	3	-48.63	49.6	Average	54	Pass
a	5500	Ant2	5470	3	-40.2	58.03	Peak	68.2	Pass
a	5500	Ant2	5470	3	-49.19	49.04	Average	54	Pass
a	5700	Ant2	5725	3	-39.25	58.98	Peak	68.2	Pass
a	5700	Ant2	5725	3	-48.6	49.63	Average	54	Pass
a	5700	Ant2	5726	3	-38.1	60.13	Peak	68.2	Pass
a	5700	Ant2	5734.4	3	-48.18	50.05	Average	54	Pass
a	5700	Ant2	5735	3	-38.57	59.66	Peak	68.2	Pass
a	5700	Ant2	5735	3	-48.42	49.81	Average	54	Pass
n20	5180	Ant2	4500	3	-41.94	56.29	Peak	68.2	Pass
n20	5180	Ant2	4500	3	-50.96	47.27	Average	54	Pass
n20	5180	Ant2	4969.7	3	-38.72	59.51	Peak	68.2	Pass
n20	5180	Ant2	4963.4	3	-47.91	50.32	Average	54	Pass
n20	5180	Ant2	5150	3	-41.56	56.67	Peak	68.2	Pass
n20	5180	Ant2	5150	3	-50.07	48.16	Average	54	Pass
n20	5240	Ant2	5350	3	-40.52	57.71	Peak	68.2	Pass
n20	5240	Ant2	5350	3	-50.06	48.17	Average	54	Pass
n20	5240	Ant2	5366.88	3	-37.83	60.4	Peak	68.2	Pass
n20	5240	Ant2	5446.56	3	-47.99	50.24	Average	54	Pass



n20	5240	Ant2	5460	3	-42.65	55.58	Peak	68.2	Pass
n20	5240	Ant2	5460	3	-51.98	46.25	Average	54	Pass
n20	5260	Ant2	4500	3	-41.64	56.59	Peak	68.2	Pass
n20	5260	Ant2	4500	3	-50.97	47.26	Average	54	Pass
n20	5260	Ant2	4992.18	3	-37.86	60.37	Peak	68.2	Pass
n20	5260	Ant2	5025.72	3	-47.81	50.42	Average	54	Pass
n20	5260	Ant2	5150	3	-41.25	56.98	Peak	68.2	Pass
n20	5260	Ant2	5150	3	-51.48	46.75	Average	54	Pass
n20	5320	Ant2	5350	3	-42.74	55.49	Peak	68.2	Pass
n20	5320	Ant2	5350	3	-50.76	47.47	Average	54	Pass
n20	5320	Ant2	5402	3	-37.42	60.81	Peak	68.2	Pass
n20	5320	Ant2	5447.2	3	-47.8	50.43	Average	54	Pass
n20	5320	Ant2	5460	3	-43.96	54.27	Peak	68.2	Pass
n20	5320	Ant2	5460	3	-51.22	47.01	Average	54	Pass
n20	5500	Ant2	5460	3	-41.28	56.95	Peak	68.2	Pass
n20	5500	Ant2	5460	3	-49.65	48.58	Average	54	Pass
n20	5500	Ant2	5468	3	-39.44	58.79	Peak	68.2	Pass
n20	5500	Ant2	5467.4	3	-48.86	49.37	Average	54	Pass
n20	5500	Ant2	5470	3	-41.94	56.29	Peak	68.2	Pass
n20	5500	Ant2	5470	3	-49.86	48.37	Average	54	Pass
n20	5700	Ant2	5725	3	-38.85	59.38	Peak	68.2	Pass
n20	5700	Ant2	5725	3	-48.62	49.61	Average	54	Pass
n20	5700	Ant2	5734	3	-38.55	59.68	Peak	68.2	Pass
n20	5700	Ant2	5734	3	-48.12	50.11	Average	54	Pass
n20	5700	Ant2	5735	3	-38.65	59.58	Peak	68.2	Pass
n20	5700	Ant2	5735	3	-48.52	49.71	Average	54	Pass
n40	5190	Ant2	4500	3	-40.22	58.01	Peak	68.2	Pass
n40	5190	Ant2	4500	3	-50.74	47.49	Average	54	Pass
n40	5190	Ant2	4913.18	3	-37.69	60.54	Peak	68.2	Pass
n40	5190	Ant2	4964.28	3	-47.78	50.45	Average	54	Pass
n40	5190	Ant2	5150	3	-40.64	57.59	Peak	68.2	Pass
n40	5190	Ant2	5150	3	-49.32	48.91	Average	54	Pass
n40	5230	Ant2	5350	3	-43.21	55.02	Peak	68.2	Pass
n40	5230	Ant2	5350	3	-51.32	46.91	Average	54	Pass
n40	5230	Ant2	5434.35	3	-37.76	60.47	Peak	68.2	Pass
n40	5230	Ant2	5447.58	3	-48.02	50.21	Average	54	Pass
n40	5230	Ant2	5460	3	-43.03	55.2	Peak	68.2	Pass
n40	5230	Ant2	5460	3	-51.36	46.87	Average	54	Pass
n40	5270	Ant2	4500	3	-39.88	58.35	Peak	68.2	Pass
n40	5270	Ant2	4500	3	-50.53	47.7	Average	54	Pass
n40	5270	Ant2	5003.82	3	-38.2	60.03	Peak	68.2	Pass
n40	5270	Ant2	4961.7	3	-47.2	51.03	Average	54	Pass
n40	5270	Ant2	5150	3	-41.02	57.21	Peak	68.2	Pass



n40	5270	Ant2	5150	3	-50.37	47.86	Average	54	Pass
n40	5310	Ant2	5350	3	-44.33	53.9	Peak	68.2	Pass
n40	5310	Ant2	5350	3	-50	48.23	Average	54	Pass
n40	5310	Ant2	5364.2	3	-37.56	60.67	Peak	68.2	Pass
n40	5310	Ant2	5364.4	3	-48.41	49.82	Average	54	Pass
n40	5310	Ant2	5460	3	-39.68	58.55	Peak	68.2	Pass
n40	5310	Ant2	5460	3	-49.63	48.6	Average	54	Pass
n40	5510	Ant2	5460	3	-40.13	58.1	Peak	68.2	Pass
n40	5510	Ant2	5460	3	-49.08	49.15	Average	54	Pass
n40	5510	Ant2	5460	3	-40.13	58.1	Peak	68.2	Pass
n40	5510	Ant2	-48.79	3	-48.79	49.44	Average	54	Pass
n40	5510	Ant2	5470	3	-40.47	57.76	Peak	68.2	Pass
n40	5510	Ant2	5470	3	-49.43	48.8	Average	54	Pass
n40	5670	Ant2	5725	3	-39.21	59.02	Peak	68.2	Pass
n40	5670	Ant2	5725	3	-48.07	50.16	Average	54	Pass
n40	5670	Ant2	5728.2	3	-38.49	59.74	Peak	68.2	Pass
n40	5670	Ant2	5725	3	-48.07	50.16	Average	54	Pass
n40	5670	Ant2	-41.84	3	-41.84	56.39	Peak	68.2	Pass
n40	5670	Ant2	5735	3	-49.78	48.45	Average	54	Pass
ac20	5180	Ant2	4500	3	-40.93	57.3	Peak	68.2	Pass
ac20	5180	Ant2	4500	3	-51.29	46.94	Average	54	Pass
ac20	5180	Ant2	4898.3	3	-37.98	60.25	Peak	68.2	Pass
ac20	5180	Ant2	5032.7	3	-47.66	50.57	Average	54	Pass
ac20	5180	Ant2	5150	3	-40.87	57.36	Peak	68.2	Pass
ac20	5180	Ant2	5150	3	-50.05	48.18	Average	54	Pass
ac20	5240	Ant2	5350	3	-42.16	56.07	Peak	68.2	Pass
ac20	5240	Ant2	5350	3	-50.27	47.96	Average	54	Pass
ac20	5240	Ant2	5446.56	3	-39.17	59.06	Peak	68.2	Pass
ac20	5240	Ant2	5446.8	3	-48.13	50.1	Average	54	Pass
ac20	5240	Ant2	5460	3	-41.54	56.69	Peak	68.2	Pass
ac20	5240	Ant2	5460	3	-51.77	46.46	Average	54	Pass
ac20	5260	Ant2	4500	3	-42.4	55.83	Peak	68.2	Pass
ac20	5260	Ant2	4500	3	-51.08	47.15	Average	54	Pass
ac20	5260	Ant2	4964.1	3	-38.33	59.9	Peak	68.2	Pass
ac20	5260	Ant2	5025.72	3	-48.1	50.13	Average	54	Pass
ac20	5260	Ant2	5150	3	-40.61	57.62	Peak	68.2	Pass
ac20	5260	Ant2	5150	3	-51.25	46.98	Average	54	Pass
ac20	5320	Ant2	5350	3	-41.09	57.14	Peak	68.2	Pass
ac20	5320	Ant2	5350	3	-50.38	47.85	Average	54	Pass
ac20	5320	Ant2	5450	3	-37.9	60.33	Peak	68.2	Pass
ac20	5320	Ant2	5448	3	-47.8	50.43	Average	54	Pass
ac20	5320	Ant2	5460	3	-42.68	55.55	Peak	68.2	Pass
ac20	5320	Ant2	5460	3	-51.33	46.9	Average	54	Pass