



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 | 5180.02 | 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 | 5180.02 | 20000 | 3.86 | 25 | Pass |
| -10C 120V | a | 5180 | Ant1 | 5180 | 0 | 0 | 25 | Pass |
| 0C 120V | a | 5180 | Ant1 | 5180 | 0 | 0 | 25 | Pass |
| 10C 120V | a | 5180 | Ant1 | 5180 | 0 | 0 | 25 | Pass |
| 30C 120V | a | 5180 | Ant1 | 5180 | 0 | 0 | 25 | Pass |
| 40C 120V | a | 5180 | Ant1 | 5179.98 | -20000 | -3.86 | 25 | Pass |
| 50C 120V | a | 5180 | Ant1 | 5180 | 0 | 0 | 25 | Pass |
| 20C 102V | a | 5200 | Ant1 | 5200.02 | 20000 | 3.85 | 25 | Pass |
| 20C 120V | a | 5200 | Ant1 | 5200.02 | 20000 | 3.85 | 25 | Pass |
| 20C 138V | a | 5200 | Ant1 | 5200 | 0 | 0 | 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 | 5200.02 | 20000 | 3.85 | 25 | Pass |
| 30C 120V | a | 5200 | Ant1 | 5200.02 | 20000 | 3.85 | 25 | Pass |
| 40C 120V | a | 5200 | Ant1 | 5200.02 | 20000 | 3.85 | 25 | Pass |
| 20C 102V | a | 5200 | Ant1 | 5200.02 | 20000 | 3.85 | 25 | Pass |
| 20C 102V | a | 5240 | Ant1 | 5240 | 0 | 0 | 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 | 5240 | 0 | 0 | 25 | Pass |
| -10C 120V | a | 5240 | Ant1 | 5240.02 | 20000 | 3.82 | 25 | Pass |
| 0C 120V | a | 5240 | Ant1 | 5239.98 | -20000 | -3.82 | 25 | Pass |
| 10C 120V | a | 5240 | Ant1 | 5240.02 | 20000 | 3.82 | 25 | Pass |
| 30C 120V | a | 5240 | Ant1 | 5240.02 | 20000 | 3.82 | 25 | Pass |
| 40C 120V | a | 5240 | Ant1 | 5240 | 0 | 0 | 25 | Pass |
| 50C 120V | a | 5240 | Ant1 | 5240 | 0 | 0 | 25 | Pass |
| 20C 102V | n20 | 5180 | Ant1 | 5180 | 0 | 0 | 25 | Pass |
| 20C 120V | n20 | 5180 | Ant1 | 5180.02 | 20000 | 3.86 | 25 | Pass |
| 20C 138V | n20 | 5180 | Ant1 | 5180 | 0 | 0 | 25 | Pass |
| -20C 120V | n20 | 5180 | Ant1 | 5180.04 | 40000 | 7.72 | 25 | Pass |
| -10C 120V | n20 | 5180 | Ant1 | 5180.04 | 40000 | 7.72 | 25 | Pass |
| 0C 120V | n20 | 5180 | Ant1 | 5180.02 | 20000 | 3.86 | 25 | Pass |



| | | | | | | | | |
|-----------|-----|------|------|---------|-------|------|----|------|
| 10C 120V | n20 | 5180 | Ant1 | 5180.02 | 20000 | 3.86 | 25 | Pass |
| 30C 120V | n20 | 5180 | Ant1 | 5180.04 | 40000 | 7.72 | 25 | Pass |
| 40C 120V | n20 | 5180 | Ant1 | 5180 | 0 | 0 | 25 | Pass |
| 50C 120V | n20 | 5180 | Ant1 | 5180 | 0 | 0 | 25 | Pass |
| 20C 102V | n20 | 5200 | Ant1 | 5200 | 0 | 0 | 25 | Pass |
| 20C 120V | n20 | 5200 | Ant1 | 5200.04 | 40000 | 7.69 | 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 | 5200.02 | 20000 | 3.85 | 25 | Pass |
| 0C 120V | n20 | 5200 | Ant1 | 5200 | 0 | 0 | 25 | Pass |
| 10C 120V | n20 | 5200 | Ant1 | 5200.02 | 20000 | 3.85 | 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 | 5240.02 | 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 | 5240.02 | 20000 | 3.82 | 25 | Pass |
| -10C 120V | n20 | 5240 | Ant1 | 5240.02 | 20000 | 3.82 | 25 | Pass |
| 0C 120V | n20 | 5240 | Ant1 | 5240.02 | 20000 | 3.82 | 25 | Pass |
| 10C 120V | n20 | 5240 | Ant1 | 5240.02 | 20000 | 3.82 | 25 | Pass |
| 30C 120V | n20 | 5240 | Ant1 | 5240.02 | 20000 | 3.82 | 25 | Pass |
| 40C 120V | n20 | 5240 | Ant1 | 5240 | 0 | 0 | 25 | Pass |
| 50C 120V | n20 | 5240 | Ant1 | 5240.02 | 20000 | 3.82 | 25 | Pass |
| 20C 102V | n40 | 5190 | Ant1 | 5190.04 | 40000 | 7.71 | 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 | 5190.04 | 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 | 5190.04 | 40000 | 7.71 | 25 | Pass |
| 30C 120V | n40 | 5190 | Ant1 | 5190.04 | 40000 | 7.71 | 25 | Pass |
| 40C 120V | n40 | 5190 | Ant1 | 5190 | 0 | 0 | 25 | Pass |
| 50C 120V | n40 | 5190 | Ant1 | 5190.04 | 40000 | 7.71 | 25 | Pass |
| 20C 102V | n40 | 5230 | Ant1 | 5230 | 0 | 0 | 25 | Pass |
| 20C 120V | n40 | 5230 | Ant1 | 5230.04 | 40000 | 7.65 | 25 | Pass |
| 20C 138V | n40 | 5230 | Ant1 | 5230.04 | 40000 | 7.65 | 25 | Pass |
| -20C 120V | n40 | 5230 | Ant1 | 5230.04 | 40000 | 7.65 | 25 | Pass |
| -10C 120V | n40 | 5230 | Ant1 | 5230.04 | 40000 | 7.65 | 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 | 5230.04 | 40000 | 7.65 | 25 | Pass |
| 40C 120V | n40 | 5230 | Ant1 | 5230.04 | 40000 | 7.65 | 25 | Pass |



| | | | | | | | | |
|-----------|------|------|------|---------|-------|------|----|------|
| 50C 120V | n40 | 5230 | Ant1 | 5230.04 | 40000 | 7.65 | 25 | Pass |
| 20C 102V | ac20 | 5180 | Ant1 | 5180.02 | 20000 | 3.86 | 25 | Pass |
| 20C 120V | ac20 | 5180 | Ant1 | 5180.04 | 40000 | 7.72 | 25 | Pass |
| 20C 138V | ac20 | 5180 | Ant1 | 5180.02 | 20000 | 3.86 | 25 | Pass |
| -20C 120V | ac20 | 5180 | Ant1 | 5180 | 0 | 0 | 25 | Pass |
| -10C 120V | ac20 | 5180 | Ant1 | 5180.04 | 40000 | 7.72 | 25 | Pass |
| 0C 120V | ac20 | 5180 | Ant1 | 5180.04 | 40000 | 7.72 | 25 | Pass |
| 10C 120V | ac20 | 5180 | Ant1 | 5180.02 | 20000 | 3.86 | 25 | Pass |
| 30C 120V | ac20 | 5180 | Ant1 | 5180.02 | 20000 | 3.86 | 25 | Pass |
| 40C 120V | ac20 | 5180 | Ant1 | 5180.02 | 20000 | 3.86 | 25 | Pass |
| 50C 120V | ac20 | 5180 | Ant1 | 5180 | 0 | 0 | 25 | Pass |
| 20C 102V | ac20 | 5200 | Ant1 | 5200.02 | 20000 | 3.85 | 25 | Pass |
| 20C 120V | ac20 | 5200 | Ant1 | 5200.04 | 40000 | 7.69 | 25 | Pass |
| 20C 138V | ac20 | 5200 | Ant1 | 5200.04 | 40000 | 7.69 | 25 | Pass |
| -20C 120V | ac20 | 5200 | Ant1 | 5200.02 | 20000 | 3.85 | 25 | Pass |
| -10C 120V | ac20 | 5200 | Ant1 | 5200.02 | 20000 | 3.85 | 25 | Pass |
| 0C 120V | ac20 | 5200 | Ant1 | 5200.02 | 20000 | 3.85 | 25 | Pass |
| 10C 120V | ac20 | 5200 | Ant1 | 5200.02 | 20000 | 3.85 | 25 | Pass |
| 30C 120V | ac20 | 5200 | Ant1 | 5200.04 | 40000 | 7.69 | 25 | Pass |
| 40C 120V | ac20 | 5200 | Ant1 | 5200 | 0 | 0 | 25 | Pass |
| 50C 120V | ac20 | 5200 | Ant1 | 5200.02 | 20000 | 3.85 | 25 | Pass |
| 20C 102V | ac20 | 5240 | Ant1 | 5240.02 | 20000 | 3.82 | 25 | Pass |
| 20C 120V | ac20 | 5240 | Ant1 | 5240.02 | 20000 | 3.82 | 25 | Pass |
| 20C 138V | ac20 | 5240 | Ant1 | 5240.02 | 20000 | 3.82 | 25 | Pass |
| -20C 120V | ac20 | 5240 | Ant1 | 5240.02 | 20000 | 3.82 | 25 | Pass |
| -10C 120V | ac20 | 5240 | Ant1 | 5240.02 | 20000 | 3.82 | 25 | Pass |
| 0C 120V | ac20 | 5240 | Ant1 | 5240.02 | 20000 | 3.82 | 25 | Pass |
| 10C 120V | ac20 | 5240 | Ant1 | 5240 | 0 | 0 | 25 | Pass |
| 30C 120V | ac20 | 5240 | Ant1 | 5240 | 0 | 0 | 25 | Pass |
| 40C 120V | ac20 | 5240 | Ant1 | 5240 | 0 | 0 | 25 | Pass |
| 50C 120V | ac20 | 5240 | Ant1 | 5240.02 | 20000 | 3.82 | 25 | Pass |
| 20C 102V | ac40 | 5190 | Ant1 | 5190.04 | 40000 | 7.71 | 25 | Pass |
| 20C 120V | ac40 | 5190 | Ant1 | 5190.04 | 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 | 5190.04 | 40000 | 7.71 | 25 | Pass |
| 10C 120V | ac40 | 5190 | Ant1 | 5190 | 0 | 0 | 25 | Pass |
| 30C 120V | ac40 | 5190 | Ant1 | 5190.04 | 40000 | 7.71 | 25 | Pass |
| 40C 120V | ac40 | 5190 | Ant1 | 5190 | 0 | 0 | 25 | Pass |
| 50C 120V | ac40 | 5190 | Ant1 | 5190.04 | 40000 | 7.71 | 25 | Pass |
| 20C 102V | ac40 | 5230 | Ant1 | 5230.04 | 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 | 5230.08 | 80000 | 15.3 | 25 | Pass |
| -10C 120V | ac40 | 5230 | Ant1 | 5230 | 0 | 0 | 25 | Pass |
| 0C 120V | ac40 | 5230 | Ant1 | 5230.04 | 40000 | 7.65 | 25 | Pass |
| 10C 120V | ac40 | 5230 | Ant1 | 5230.04 | 40000 | 7.65 | 25 | Pass |
| 30C 120V | ac40 | 5230 | Ant1 | 5230.04 | 40000 | 7.65 | 25 | Pass |
| 40C 120V | ac40 | 5230 | Ant1 | 5230 | 0 | 0 | 25 | Pass |
| 50C 120V | ac40 | 5230 | Ant1 | 5230.04 | 40000 | 7.65 | 25 | Pass |
| 20C 102V | ac80 | 5210 | Ant1 | 5210.64 | 640000 | 122.84 | 25 | Pass |
| 20C 120V | ac80 | 5210 | Ant1 | 5210.16 | 160000 | 30.71 | 25 | Pass |
| 20C 138V | ac80 | 5210 | Ant1 | 5210.24 | 240000 | 46.07 | 25 | Pass |
| -20C 120V | ac80 | 5210 | Ant1 | 5210.4 | 400000 | 76.78 | 25 | Pass |
| -10C 120V | ac80 | 5210 | Ant1 | 5210.16 | 160000 | 30.71 | 25 | Pass |
| 0C 120V | ac80 | 5210 | Ant1 | 5210.32 | 320000 | 61.42 | 25 | Pass |
| 10C 120V | ac80 | 5210 | Ant1 | 5210.08 | 80000 | 15.36 | 25 | Pass |
| 30C 120V | ac80 | 5210 | Ant1 | 5210 | 0 | 0 | 25 | Pass |
| 40C 120V | ac80 | 5210 | Ant1 | 5210.16 | 160000 | 30.71 | 25 | Pass |
| 50C 120V | ac80 | 5210 | Ant1 | 5210 | 0 | 0 | 25 | Pass |



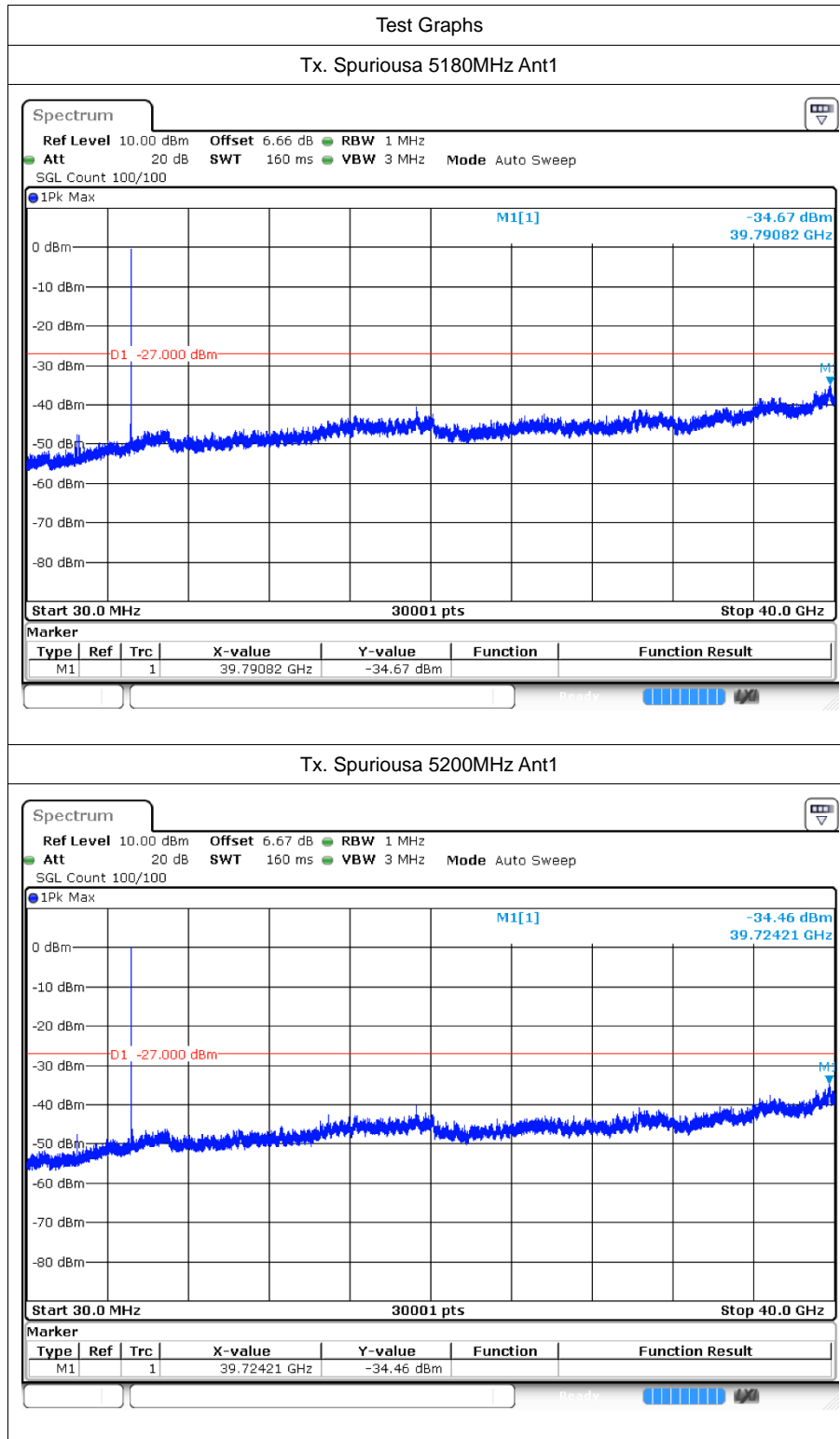
7 Conducted RF Spurious Emission

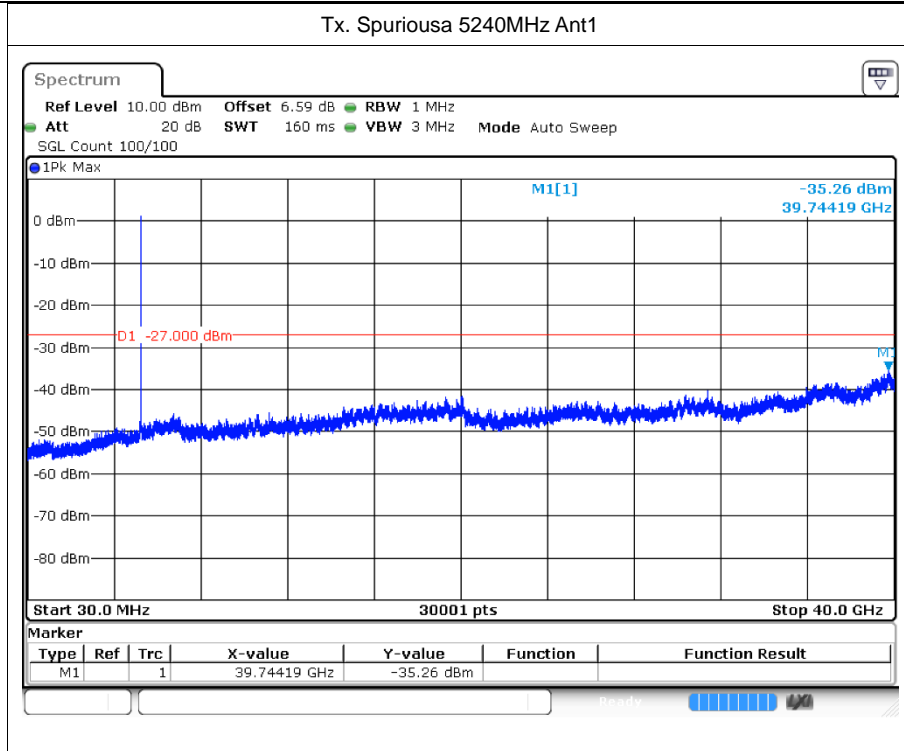
7.1 Test Result

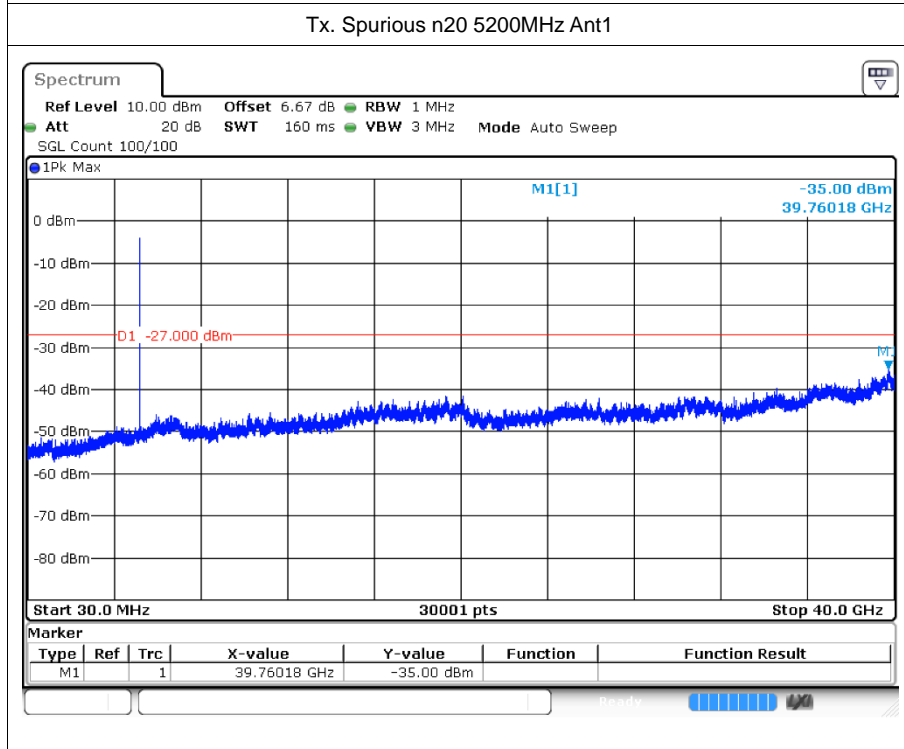
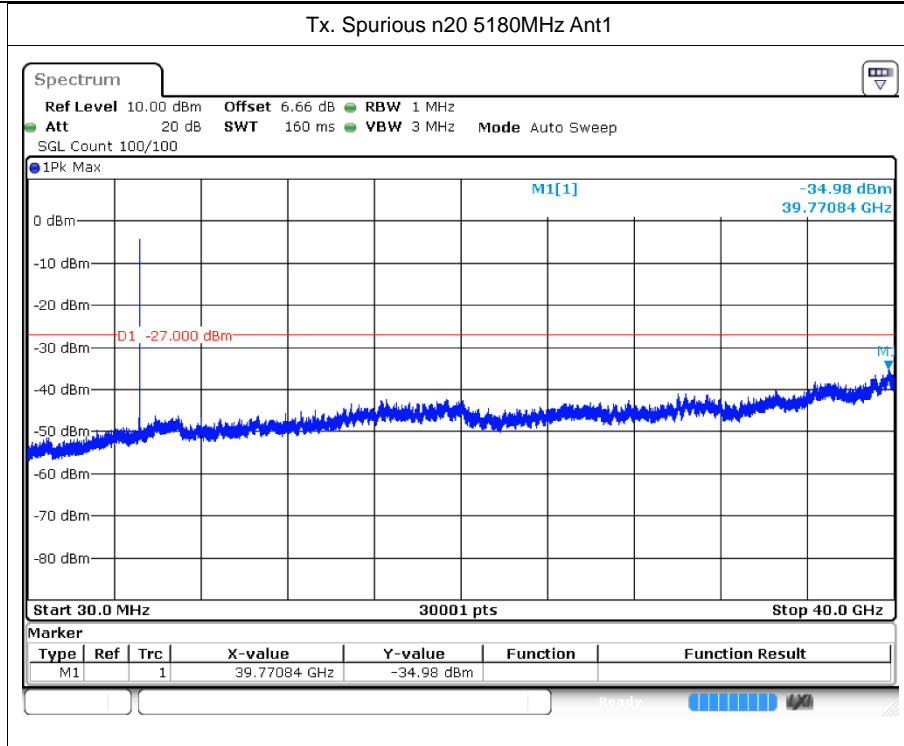
| Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|------|-----------------|---------|-----------------|-------------|---------|
| a | 5180 | Ant1 | -34.66 | -27 | Pass |
| a | 5200 | Ant1 | -34.45 | -27 | Pass |
| a | 5240 | Ant1 | -35.26 | -27 | Pass |
| n20 | 5180 | Ant1 | -34.97 | -27 | Pass |
| n20 | 5200 | Ant1 | -34.99 | -27 | Pass |
| n20 | 5240 | Ant1 | -34.93 | -27 | Pass |
| n40 | 5190 | Ant1 | -34.57 | -27 | Pass |
| n40 | 5230 | Ant1 | -34.77 | -27 | Pass |
| ac20 | 5180 | Ant1 | -35.06 | -27 | Pass |
| ac20 | 5200 | Ant1 | -35.14 | -27 | Pass |
| ac20 | 5240 | Ant1 | -35.49 | -27 | Pass |
| ac40 | 5190 | Ant1 | -34.7 | -27 | Pass |
| ac40 | 5230 | Ant1 | -34.47 | -27 | Pass |
| ac80 | 5210 | Ant1 | -35.77 | -27 | Pass |
| a | 5180 | Ant2 | -35.39 | -27 | Pass |
| a | 5200 | Ant2 | -34.01 | -27 | Pass |
| a | 5240 | Ant2 | -34.4 | -27 | Pass |
| n20 | 5180 | Ant2 | -35.08 | -27 | Pass |
| n20 | 5200 | Ant2 | -34.55 | -27 | Pass |
| n20 | 5240 | Ant2 | -35.11 | -27 | Pass |
| n40 | 5190 | Ant2 | -35.93 | -27 | Pass |
| n40 | 5230 | Ant2 | -35.28 | -27 | Pass |
| ac20 | 5180 | Ant2 | -35.63 | -27 | Pass |
| ac20 | 5200 | Ant2 | -35.34 | -27 | Pass |
| ac20 | 5240 | Ant2 | -34.13 | -27 | Pass |
| ac40 | 5190 | Ant2 | -35.36 | -27 | Pass |
| ac40 | 5230 | Ant2 | -34.61 | -27 | Pass |
| ac80 | 5210 | Ant2 | -35.41 | -27 | Pass |

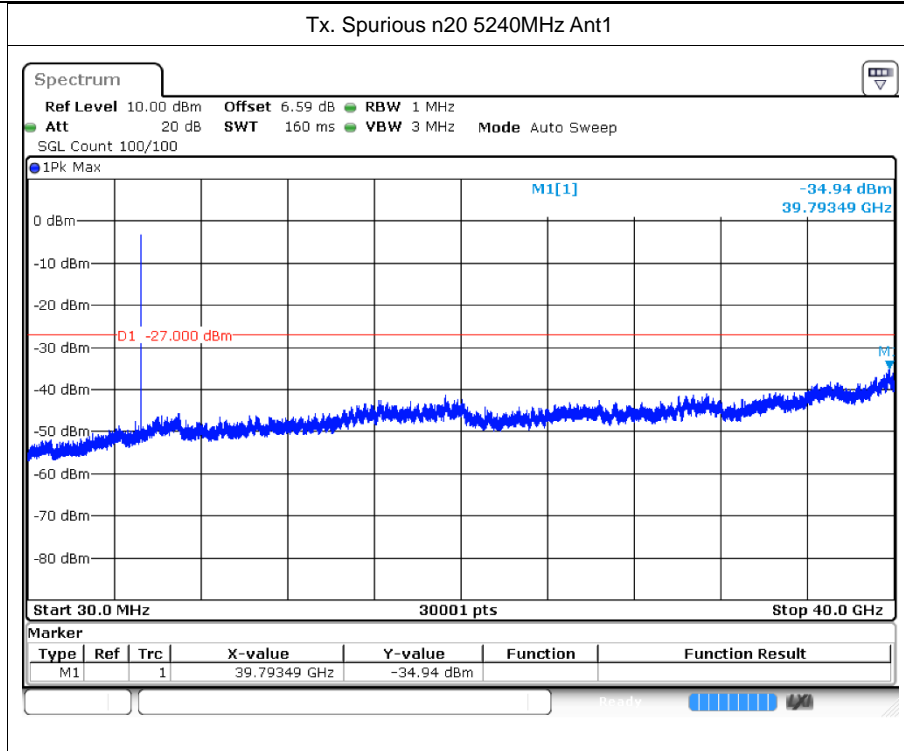


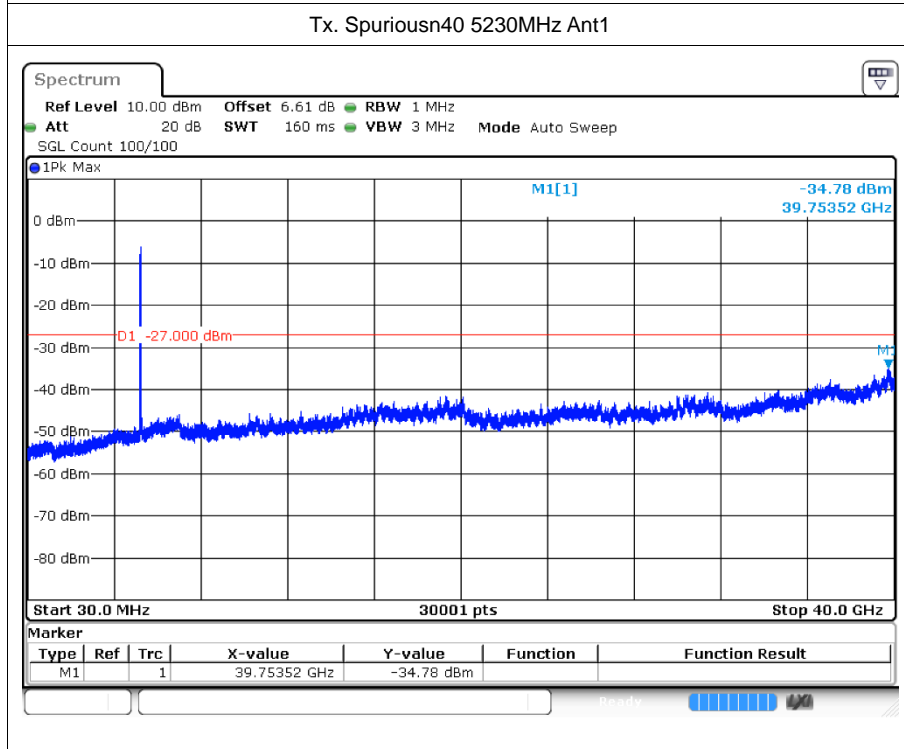
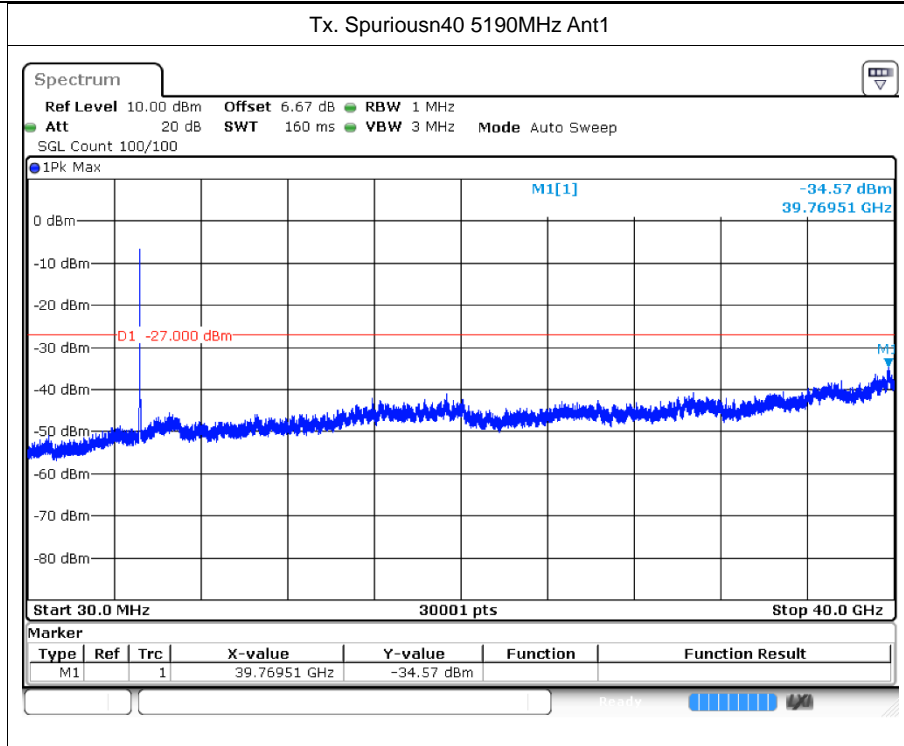
7.2 Test Graphs

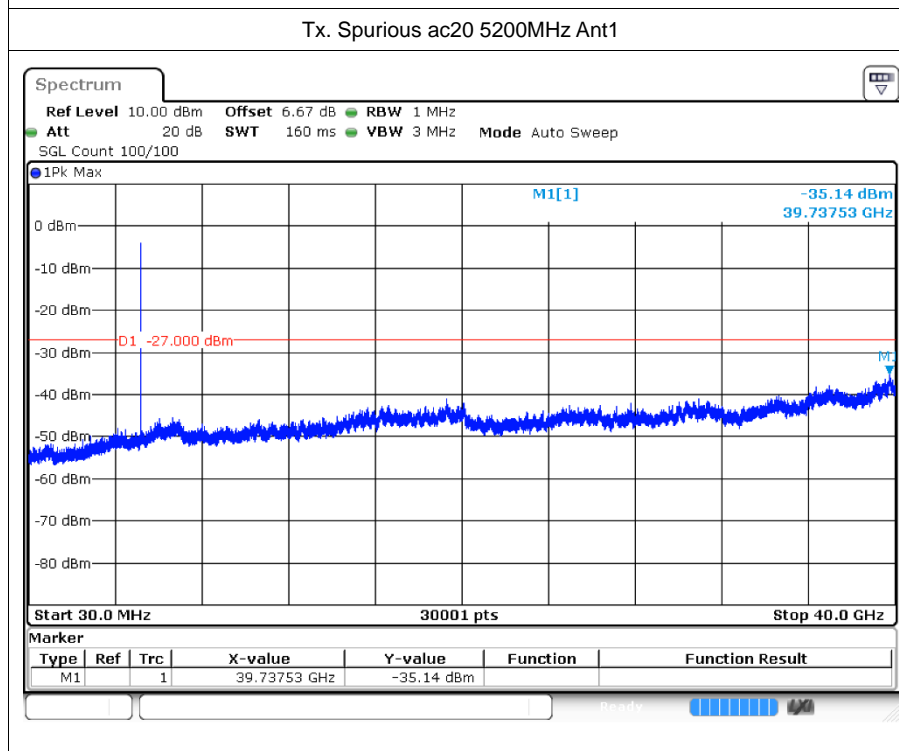
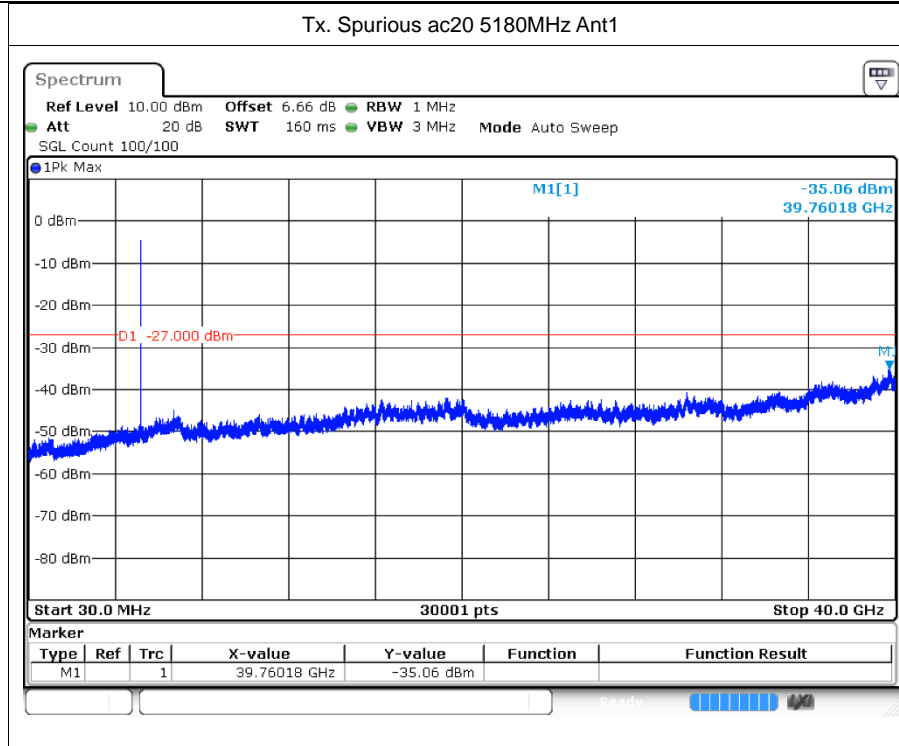


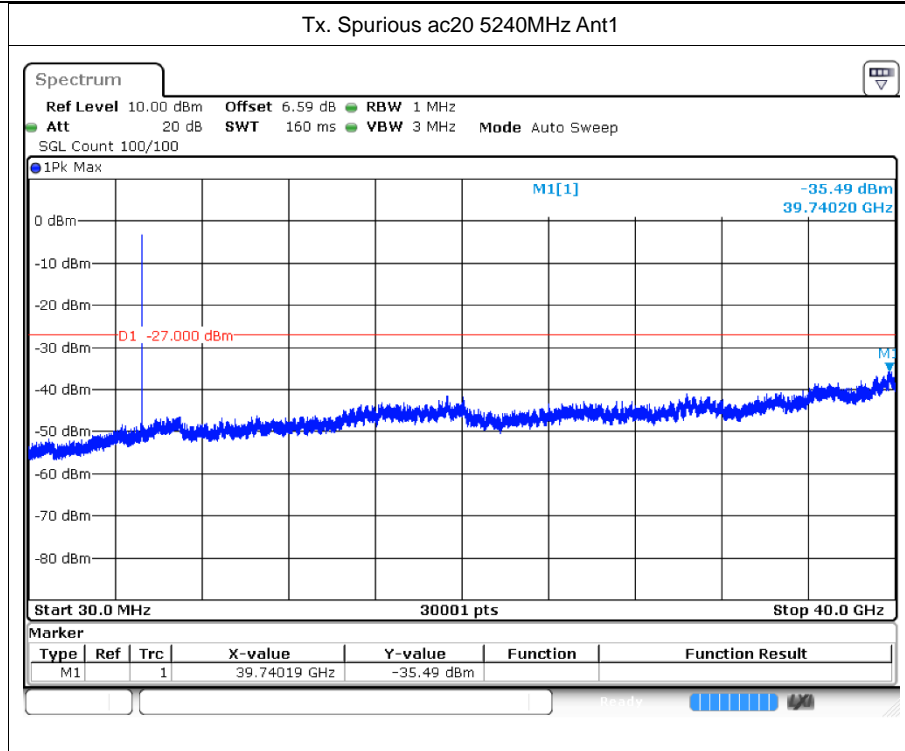


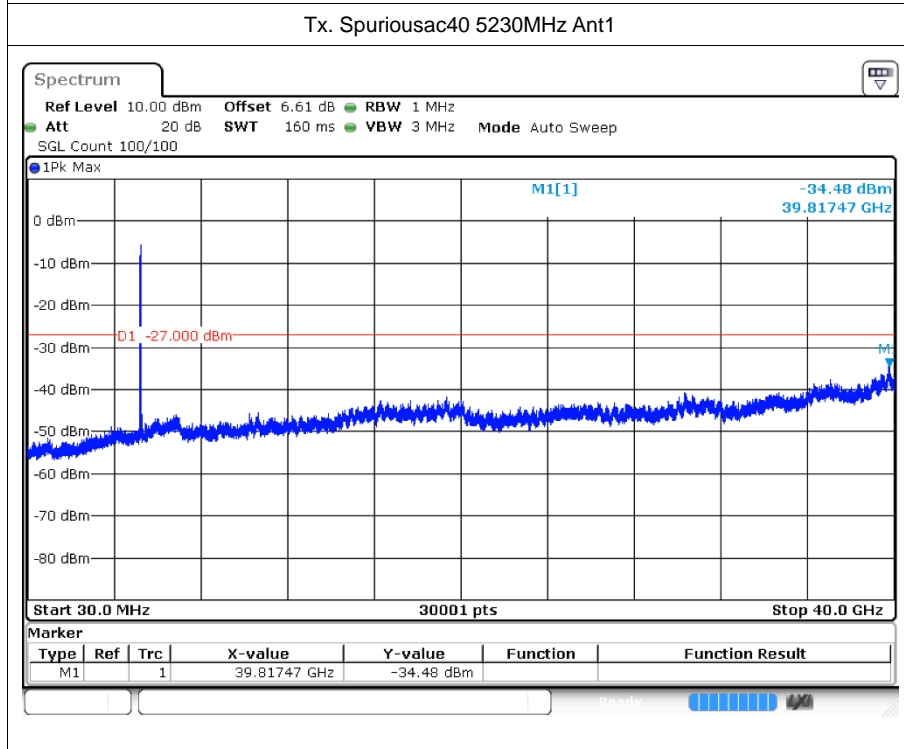
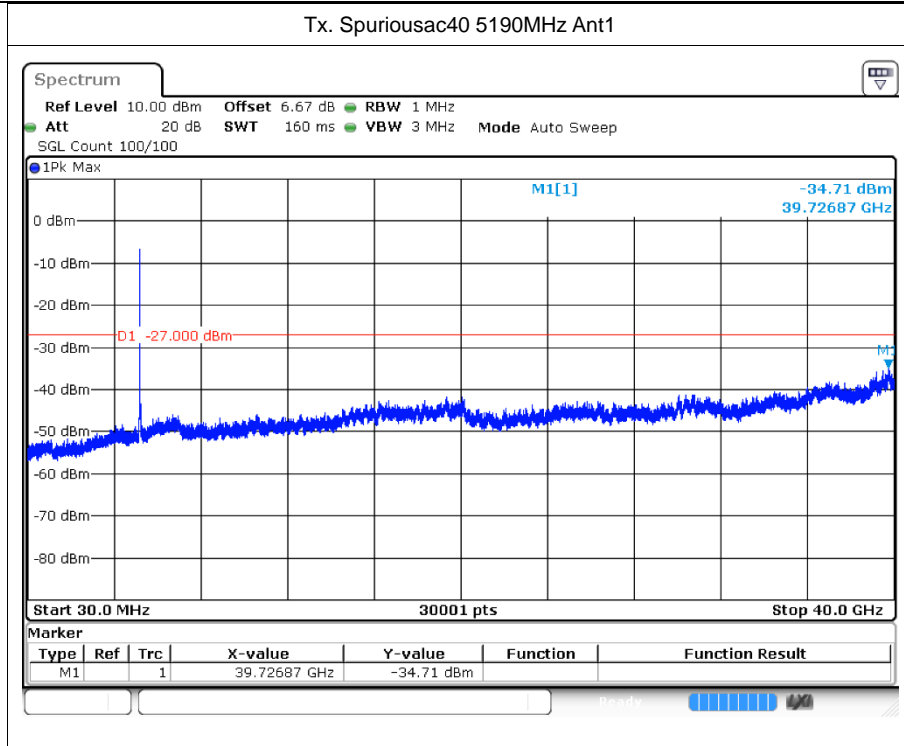


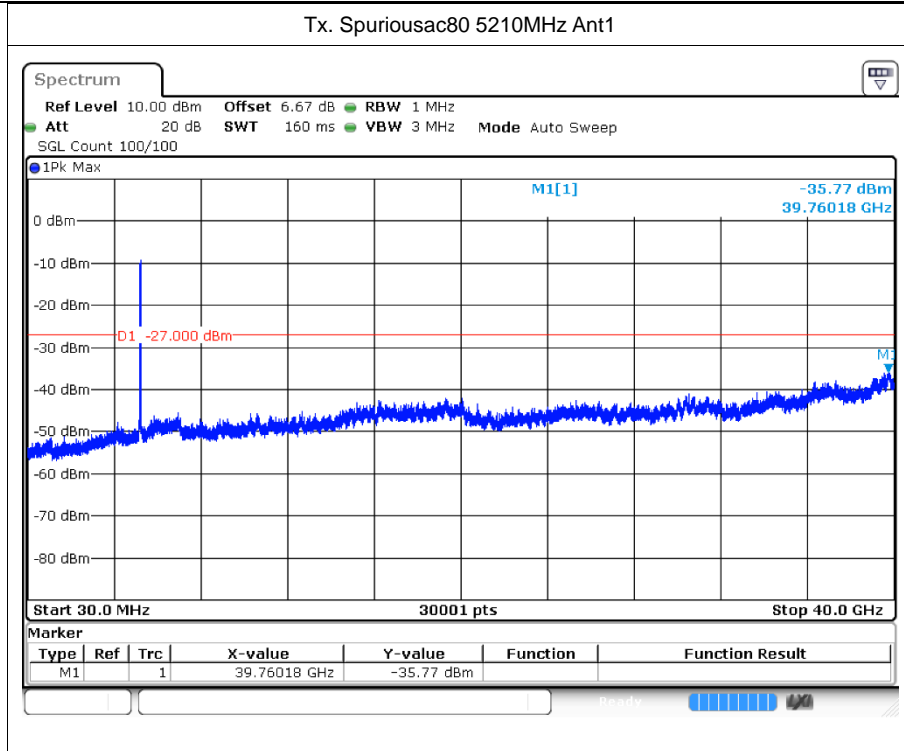


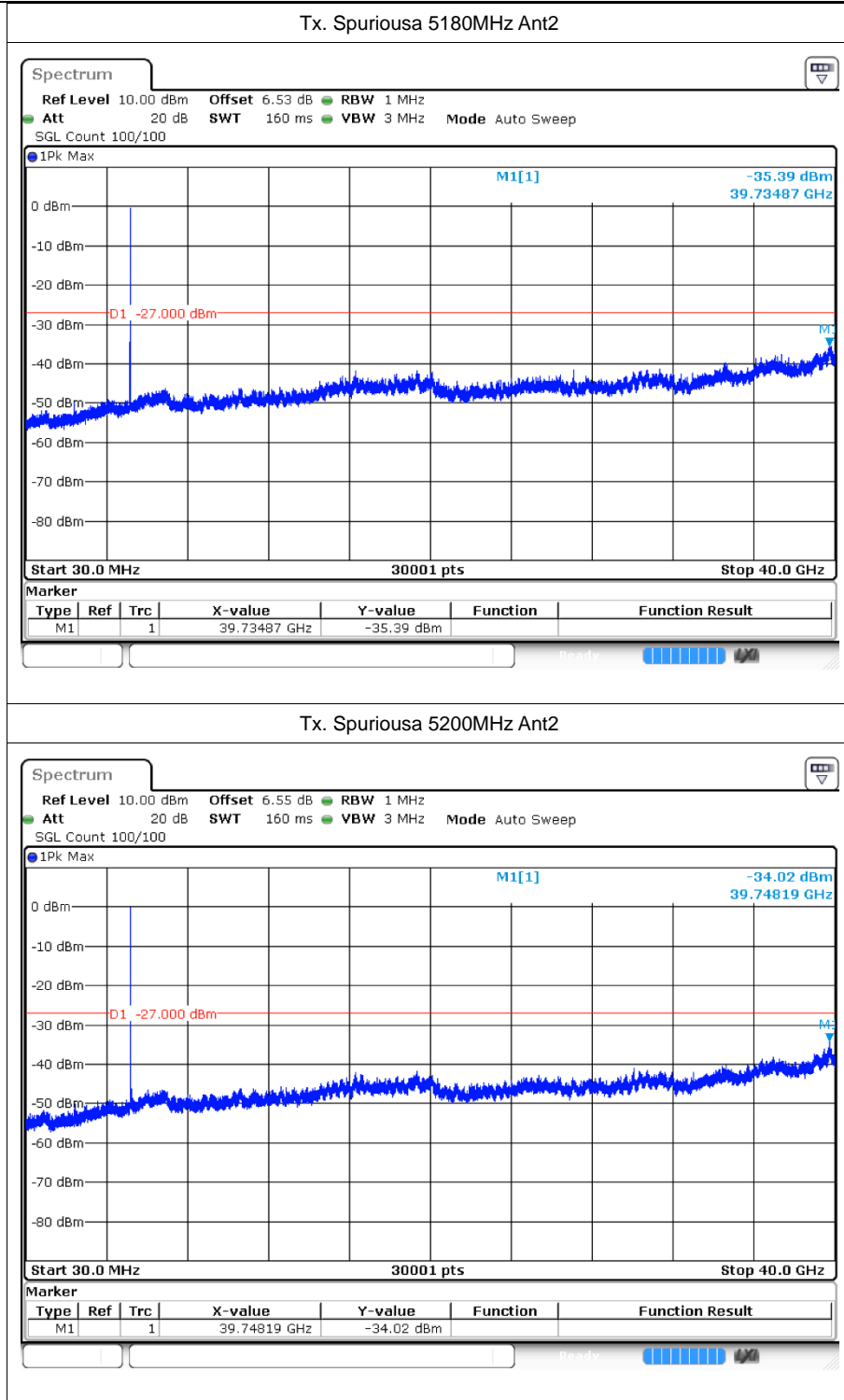


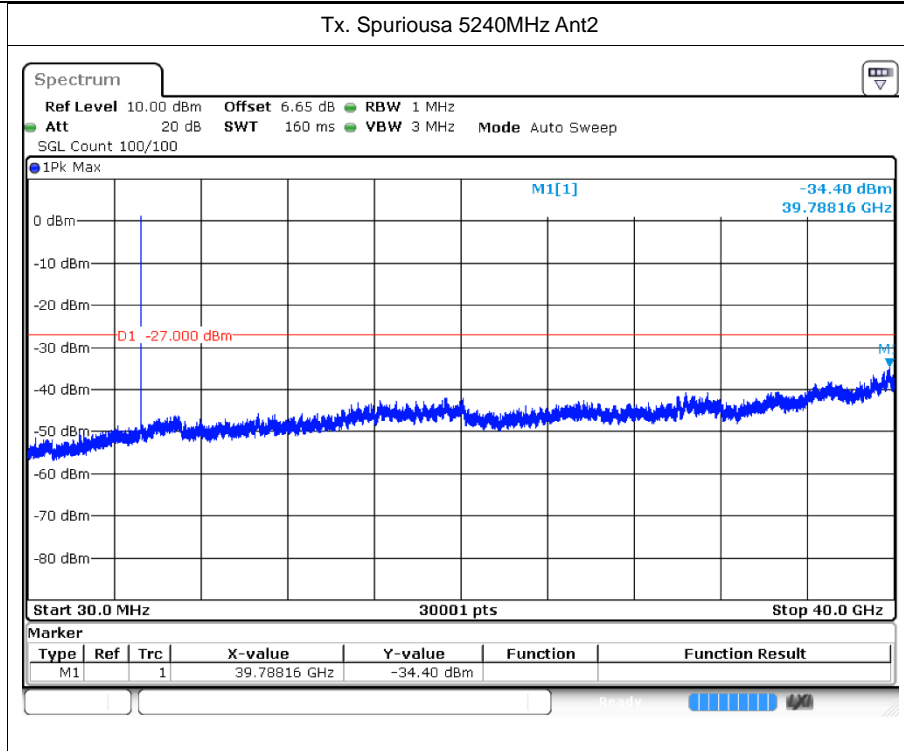


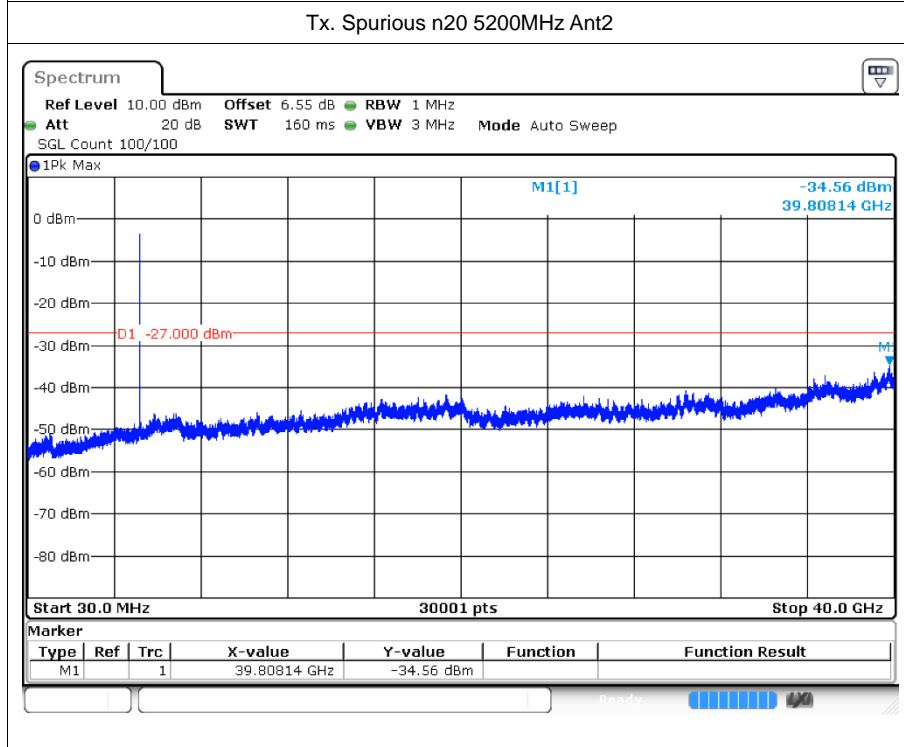
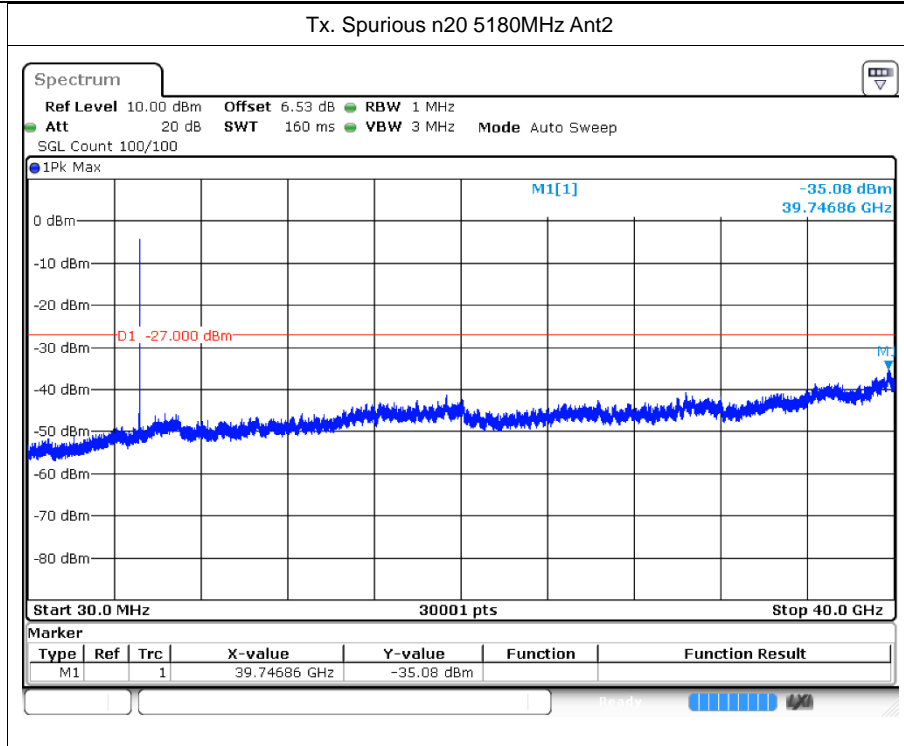


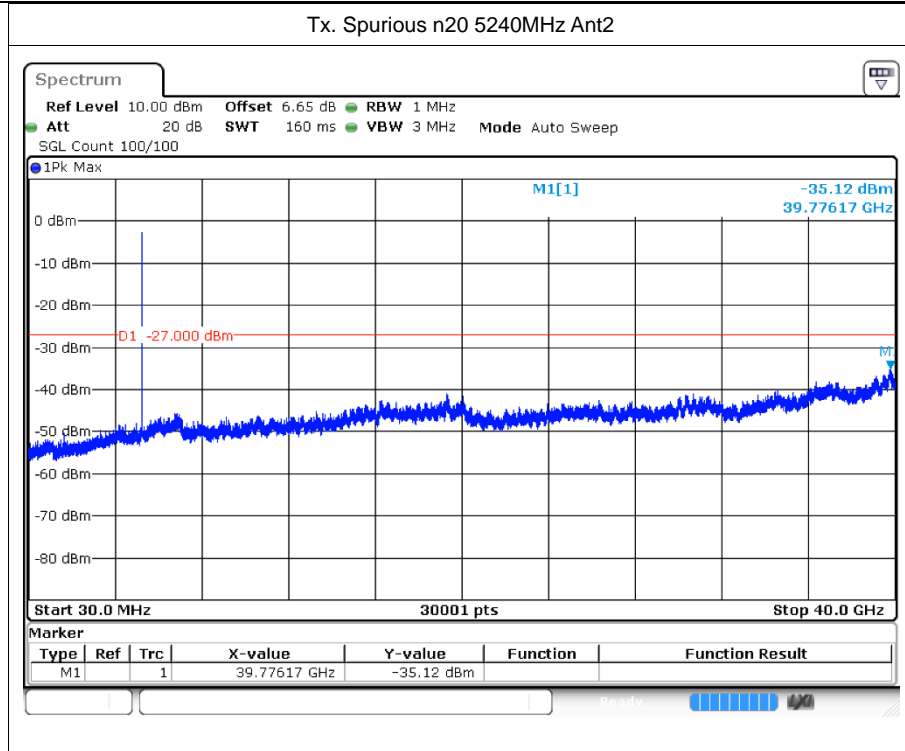


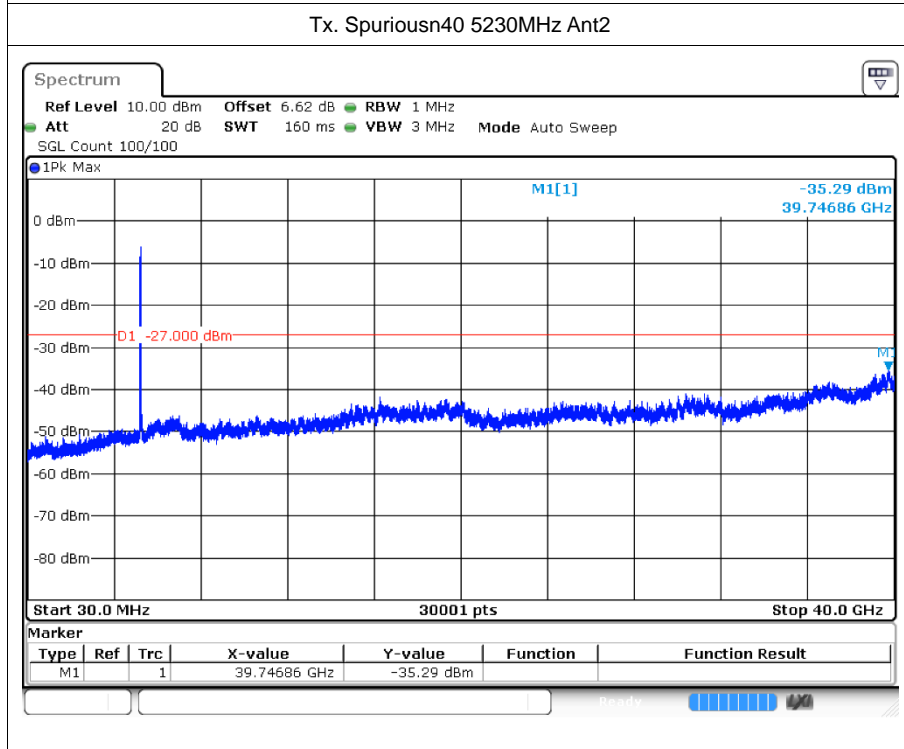
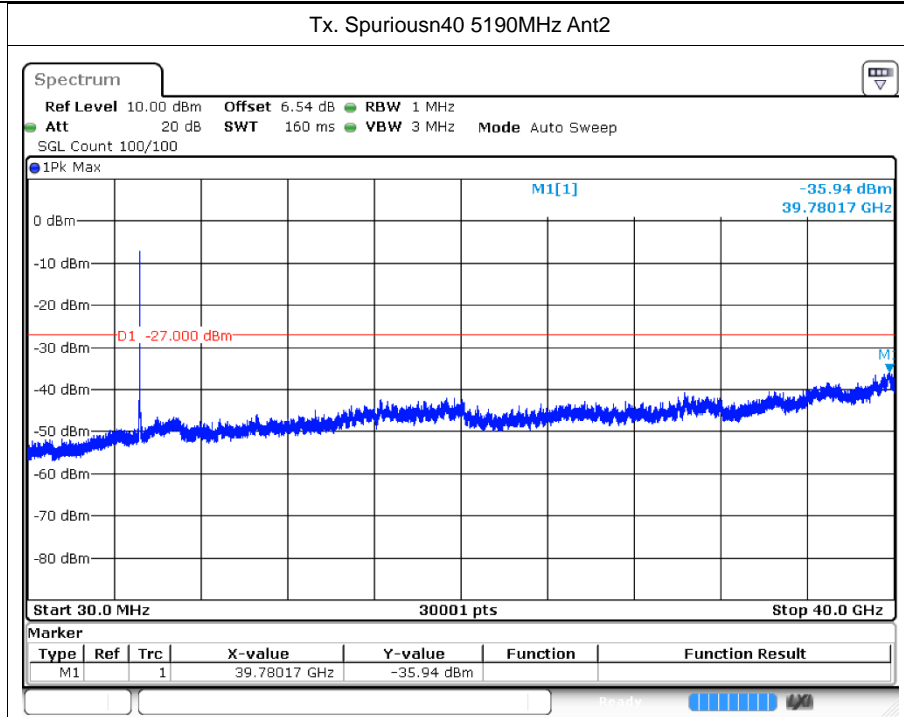


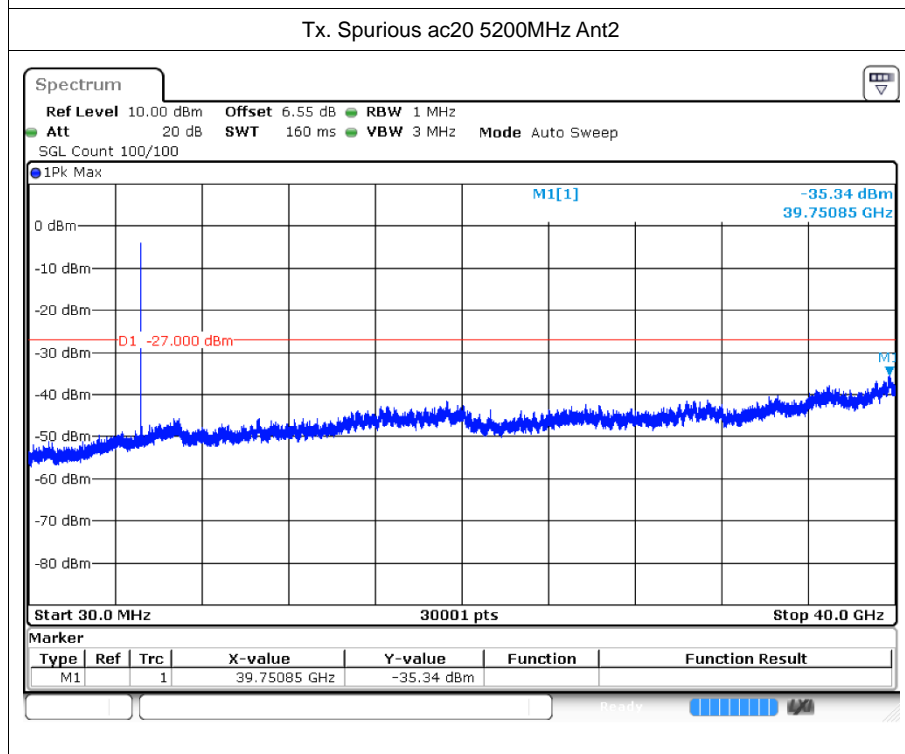
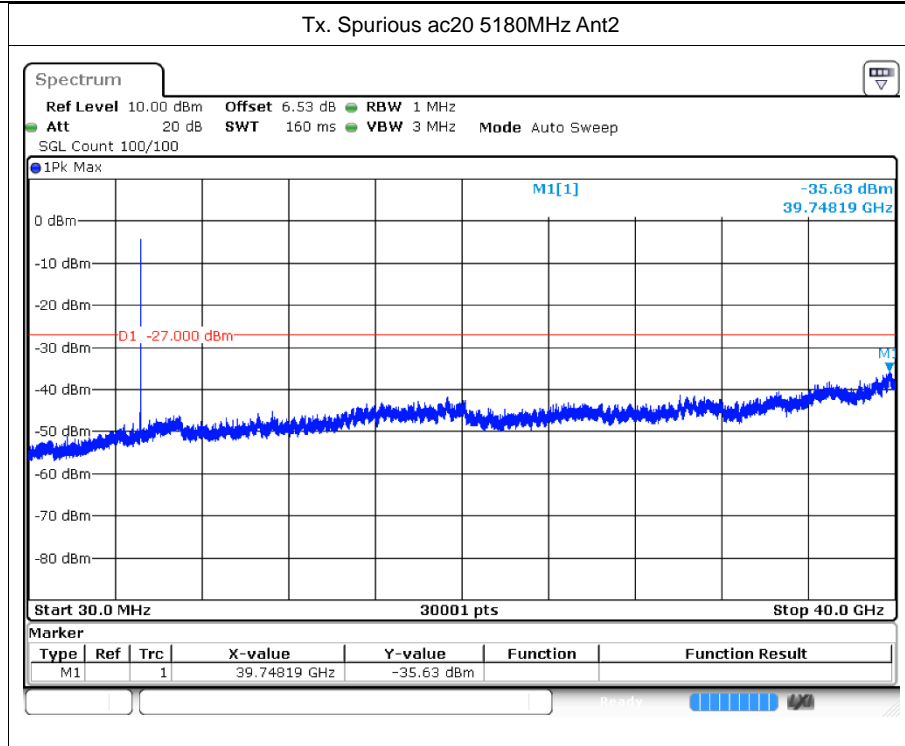


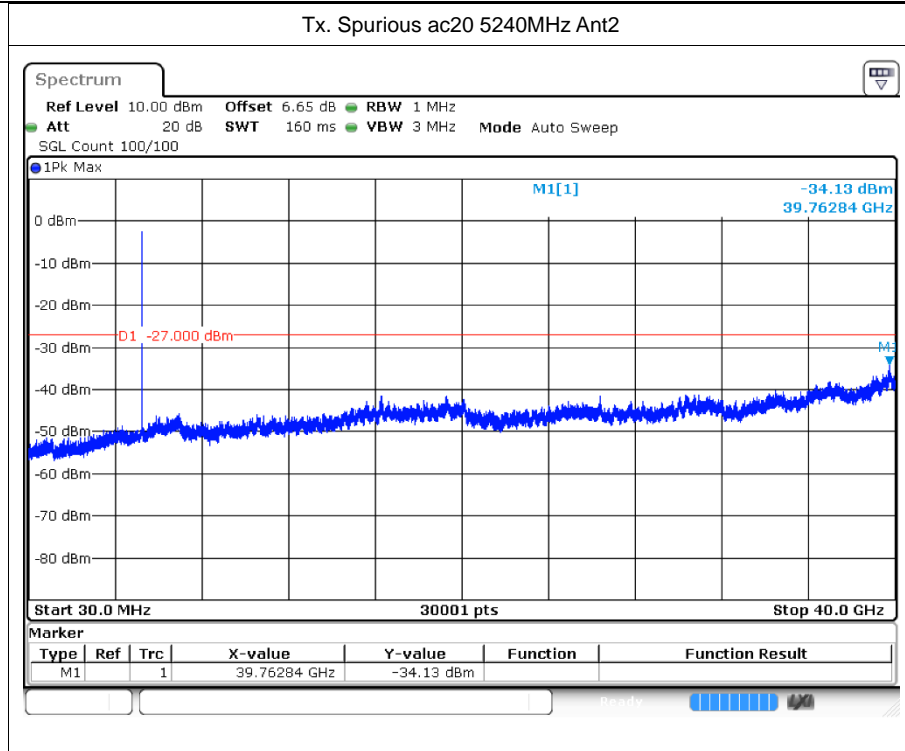


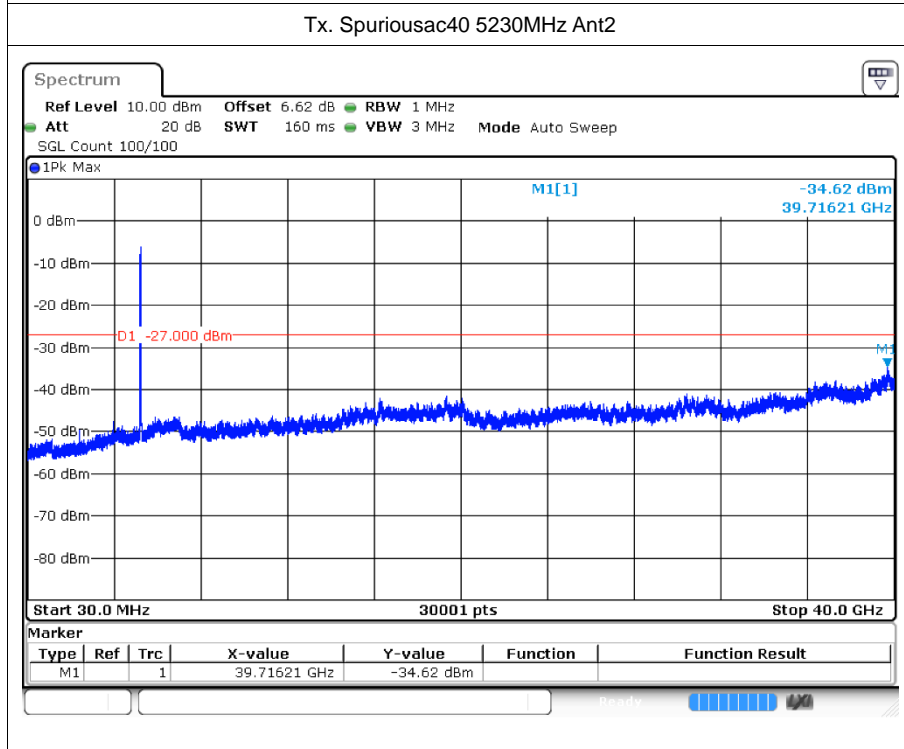
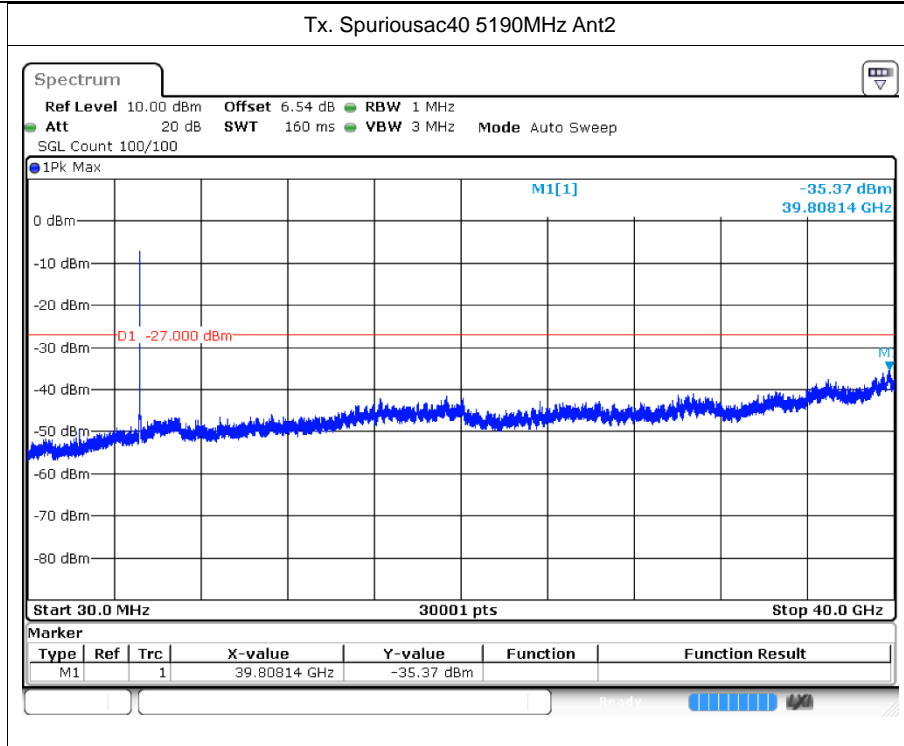


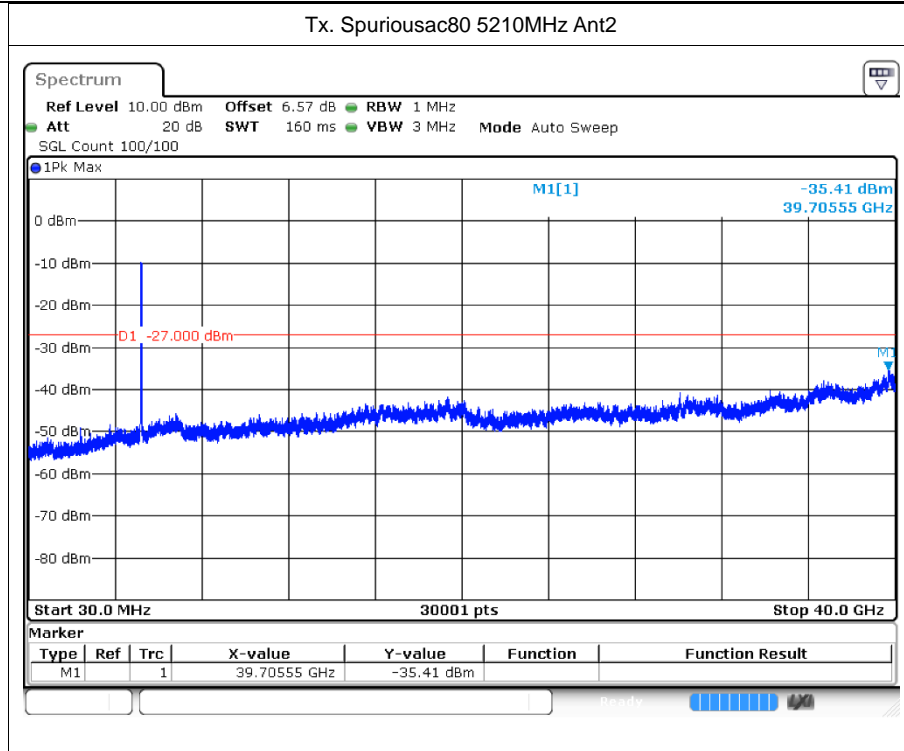














8 Restrict Band

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 | -42.2 | 3 | 56.03 | Peak | 68.2 | Pass |
| a | 5180 | Ant1 | 4500 | -52.64 | 3 | 45.59 | Average | 54 | Pass |
| a | 5180 | Ant1 | 4517.5 | -39.41 | 3 | 58.82 | Peak | 68.2 | Pass |
| a | 5180 | Ant1 | 4963.4 | -49.97 | 3 | 48.26 | Average | 54 | Pass |
| a | 5180 | Ant1 | 5150 | -43.32 | 3 | 54.91 | Peak | 68.2 | Pass |
| a | 5180 | Ant1 | 5150 | -52.06 | 3 | 46.17 | Average | 54 | Pass |
| a | 5240 | Ant1 | 5350 | -43.76 | 3 | 54.47 | Peak | 68.2 | Pass |
| a | 5240 | Ant1 | 5350 | -52.5 | 3 | 45.73 | Average | 54 | Pass |
| a | 5240 | Ant1 | 5459.28 | -38.88 | 3 | 59.35 | Peak | 68.2 | Pass |
| a | 5240 | Ant1 | 5449.2 | -50.12 | 3 | 48.11 | Average | 54 | Pass |
| a | 5240 | Ant1 | 5460 | -41.81 | 3 | 56.42 | Peak | 68.2 | Pass |
| a | 5240 | Ant1 | 5460 | -51.94 | 3 | 46.29 | Average | 54 | Pass |
| n20 | 5180 | Ant1 | 4500 | -42.96 | 3 | 55.27 | Peak | 68.2 | Pass |
| n20 | 5180 | Ant1 | 4500 | -52.47 | 3 | 45.76 | Average | 54 | Pass |
| n20 | 5180 | Ant1 | 4920 | -39.73 | 3 | 58.5 | Peak | 68.2 | Pass |
| n20 | 5180 | Ant1 | 4962.7 | -49.84 | 3 | 48.39 | Average | 54 | Pass |
| n20 | 5180 | Ant1 | 5150 | -43.27 | 3 | 54.96 | Peak | 68.2 | Pass |
| n20 | 5180 | Ant1 | 5150 | -52 | 3 | 46.23 | Average | 54 | Pass |
| n20 | 5240 | Ant1 | 5350 | -43.49 | 3 | 54.74 | Peak | 68.2 | Pass |
| n20 | 5240 | Ant1 | 5350 | -52.17 | 3 | 46.06 | Average | 54 | Pass |
| n20 | 5240 | Ant1 | 5379.84 | -39.63 | 3 | 58.6 | Peak | 68.2 | Pass |
| n20 | 5240 | Ant1 | 5447.52 | -50.14 | 3 | 48.09 | Average | 54 | Pass |
| n20 | 5240 | Ant1 | 5460 | -44.05 | 3 | 54.18 | Peak | 68.2 | Pass |
| n20 | 5240 | Ant1 | 5460 | -51.87 | 3 | 46.36 | Average | 54 | Pass |
| n40 | 5190 | Ant1 | 4500 | -41.39 | 3 | 56.84 | Peak | 68.2 | Pass |
| n40 | 5190 | Ant1 | 4500 | -52.2 | 3 | 46.03 | Average | 54 | Pass |
| n40 | 5190 | Ant1 | 5019.03 | -39.95 | 3 | 58.28 | Peak | 68.2 | Pass |
| n40 | 5190 | Ant1 | 4965.01 | -49.51 | 3 | 48.72 | Average | 54 | Pass |
| n40 | 5190 | Ant1 | 5150 | -42.66 | 3 | 55.57 | Peak | 68.2 | Pass |
| n40 | 5190 | Ant1 | 5150 | -51.75 | 3 | 46.48 | Average | 54 | Pass |
| n40 | 5230 | Ant1 | 5350 | -43.75 | 3 | 54.48 | Peak | 68.2 | Pass |
| n40 | 5230 | Ant1 | 5350 | -51.64 | 3 | 46.59 | Average | 54 | Pass |
| n40 | 5230 | Ant1 | 5450.28 | -40.3 | 3 | 57.93 | Peak | 68.2 | Pass |
| n40 | 5230 | Ant1 | 5450.01 | -49.62 | 3 | 48.61 | Average | 54 | Pass |
| n40 | 5230 | Ant1 | 5460 | -42.43 | 3 | 55.8 | Peak | 68.2 | Pass |
| n40 | 5230 | Ant1 | 5460 | -51.48 | 3 | 46.75 | Average | 54 | Pass |



| | | | | | | | | | |
|------|------|------|---------|--------|---|-------|---------|------|------|
| ac20 | 5180 | Ant1 | 4500 | -42.93 | 3 | 55.3 | Peak | 68.2 | Pass |
| ac20 | 5180 | Ant1 | 4500 | -52.49 | 3 | 45.74 | Average | 54 | Pass |
| ac20 | 5180 | Ant1 | 4997 | -39.58 | 3 | 58.65 | Peak | 68.2 | Pass |
| ac20 | 5180 | Ant1 | 4964.1 | -49.94 | 3 | 48.29 | Average | 54 | Pass |
| ac20 | 5180 | Ant1 | 5150 | -42.71 | 3 | 55.52 | Peak | 68.2 | Pass |
| ac20 | 5180 | Ant1 | 5150 | -52.12 | 3 | 46.11 | Average | 54 | Pass |
| ac20 | 5240 | Ant1 | 5350 | -42.92 | 3 | 55.31 | Peak | 68.2 | Pass |
| ac20 | 5240 | Ant1 | 5350 | -52.25 | 3 | 45.98 | Average | 54 | Pass |
| ac20 | 5240 | Ant1 | 5448.24 | -39.36 | 3 | 58.87 | Peak | 68.2 | Pass |
| ac20 | 5240 | Ant1 | 5449.44 | -50.27 | 3 | 47.96 | Average | 54 | Pass |
| ac20 | 5240 | Ant1 | 5460 | -42.93 | 3 | 55.3 | Peak | 68.2 | Pass |
| ac20 | 5240 | Ant1 | 5460 | -51.67 | 3 | 46.56 | Average | 54 | Pass |
| ac40 | 5190 | Ant1 | 4500 | -43.63 | 3 | 54.6 | Peak | 68.2 | Pass |
| ac40 | 5190 | Ant1 | 4500 | -51.82 | 3 | 46.41 | Average | 54 | Pass |
| ac40 | 5190 | Ant1 | 4796.38 | -39.66 | 3 | 58.57 | Peak | 68.2 | Pass |
| ac40 | 5190 | Ant1 | 4964.28 | -49.27 | 3 | 48.96 | Average | 54 | Pass |
| ac40 | 5190 | Ant1 | 5150 | -42.28 | 3 | 55.95 | Peak | 68.2 | Pass |
| ac40 | 5190 | Ant1 | 5150 | -51.56 | 3 | 46.67 | Average | 54 | Pass |
| ac40 | 5230 | Ant1 | 5350 | -43.23 | 3 | 55 | Peak | 68.2 | Pass |
| ac40 | 5230 | Ant1 | 5350 | -51.25 | 3 | 46.98 | Average | 54 | Pass |
| ac40 | 5230 | Ant1 | 5440.56 | -39.23 | 3 | 59 | Peak | 68.2 | Pass |
| ac40 | 5230 | Ant1 | 5447.85 | -49.7 | 3 | 48.53 | Average | 54 | Pass |
| ac40 | 5230 | Ant1 | 5460 | -42.15 | 3 | 56.08 | Peak | 68.2 | Pass |
| ac40 | 5230 | Ant1 | 5460 | -51.28 | 3 | 46.95 | Average | 54 | Pass |
| ac80 | 5210 | Ant1 | 4500 | -40.94 | 3 | 57.29 | Peak | 68.2 | Pass |
| ac80 | 5210 | Ant1 | 4500 | -51.73 | 3 | 46.5 | Average | 54 | Pass |
| ac80 | 5210 | Ant1 | 4940.03 | -39.57 | 3 | 58.66 | Peak | 68.2 | Pass |
| ac80 | 5210 | Ant1 | 4968.47 | -49.2 | 3 | 49.03 | Average | 54 | Pass |
| ac80 | 5210 | Ant1 | 5150 | -42.78 | 3 | 55.45 | Peak | 68.2 | Pass |
| ac80 | 5210 | Ant1 | 5150 | -50.96 | 3 | 47.27 | Average | 54 | Pass |
| a | 5180 | Ant2 | 4500 | -42.34 | 3 | 55.89 | Peak | 68.2 | Pass |
| a | 5180 | Ant2 | 4500 | -52.67 | 3 | 45.56 | Average | 54 | Pass |
| a | 5180 | Ant2 | 5067 | -39.49 | 3 | 58.74 | Peak | 68.2 | Pass |
| a | 5180 | Ant2 | 4963.4 | -50.21 | 3 | 48.02 | Average | 54 | Pass |
| a | 5180 | Ant2 | 5150 | -41.58 | 3 | 56.65 | Peak | 68.2 | Pass |
| a | 5180 | Ant2 | 5150 | -52.44 | 3 | 45.79 | Average | 54 | Pass |
| a | 5240 | Ant2 | 5350 | -43.8 | 3 | 54.43 | Peak | 68.2 | Pass |
| a | 5240 | Ant2 | 5350 | -52.57 | 3 | 45.66 | Average | 54 | Pass |
| a | 5240 | Ant2 | 5451.84 | -39.49 | 3 | 58.74 | Peak | 68.2 | Pass |
| a | 5240 | Ant2 | 5446.8 | -50.02 | 3 | 48.21 | Average | 54 | Pass |
| a | 5240 | Ant2 | 5460 | -43.65 | 3 | 54.58 | Peak | 68.2 | Pass |
| a | 5240 | Ant2 | 5460 | -51.91 | 3 | 46.32 | Average | 54 | Pass |
| n20 | 5180 | Ant2 | 4500 | -42.57 | 3 | 55.66 | Peak | 68.2 | Pass |



| | | | | | | | | | |
|------|------|------|---------|--------|---|-------|---------|------|------|
| n20 | 5180 | Ant2 | 4500 | -52.39 | 3 | 45.84 | Average | 54 | Pass |
| n20 | 5180 | Ant2 | 4983.7 | -39.21 | 3 | 59.02 | Peak | 68.2 | Pass |
| n20 | 5180 | Ant2 | 4963.4 | -49.93 | 3 | 48.3 | Average | 54 | Pass |
| n20 | 5180 | Ant2 | 5150 | -42.16 | 3 | 56.07 | Peak | 68.2 | Pass |
| n20 | 5180 | Ant2 | 5150 | -52.14 | 3 | 46.09 | Average | 54 | Pass |
| n20 | 5240 | Ant2 | 5350 | -42.12 | 3 | 56.11 | Peak | 68.2 | Pass |
| n20 | 5240 | Ant2 | 5350 | -51.87 | 3 | 46.36 | Average | 54 | Pass |
| n20 | 5240 | Ant2 | 5408.88 | -40.26 | 3 | 57.97 | Peak | 68.2 | Pass |
| n20 | 5240 | Ant2 | 5447.04 | -50.14 | 3 | 48.09 | Average | 54 | Pass |
| n20 | 5240 | Ant2 | 5460 | -42.14 | 3 | 56.09 | Peak | 68.2 | Pass |
| n20 | 5240 | Ant2 | 5460 | -51.74 | 3 | 46.49 | Average | 54 | Pass |
| n40 | 5190 | Ant2 | 4500 | -43.02 | 3 | 55.21 | Peak | 68.2 | Pass |
| n40 | 5190 | Ant2 | 4500 | -52.53 | 3 | 45.7 | Average | 54 | Pass |
| n40 | 5190 | Ant2 | 4994.94 | -39.31 | 3 | 58.92 | Peak | 68.2 | Pass |
| n40 | 5190 | Ant2 | 4965.74 | -49.13 | 3 | 49.1 | Average | 54 | Pass |
| n40 | 5190 | Ant2 | 5150 | -41.85 | 3 | 56.38 | Peak | 68.2 | Pass |
| n40 | 5190 | Ant2 | 5150 | -51.44 | 3 | 46.79 | Average | 54 | Pass |
| n40 | 5230 | Ant2 | 5350 | -41.94 | 3 | 56.29 | Peak | 68.2 | Pass |
| n40 | 5230 | Ant2 | 5350 | -51.93 | 3 | 46.3 | Average | 54 | Pass |
| n40 | 5230 | Ant2 | 5450.82 | -40.47 | 3 | 57.76 | Peak | 68.2 | Pass |
| n40 | 5230 | Ant2 | 5449.2 | -49.9 | 3 | 48.33 | Average | 54 | Pass |
| n40 | 5230 | Ant2 | 5460 | -41.42 | 3 | 56.81 | Peak | 68.2 | Pass |
| n40 | 5230 | Ant2 | 5460 | -51.07 | 3 | 47.16 | Average | 54 | Pass |
| ac20 | 5180 | Ant2 | 4500 | -43.13 | 3 | 55.1 | Peak | 68.2 | Pass |
| ac20 | 5180 | Ant2 | 4500 | -52.5 | 3 | 45.73 | Average | 54 | Pass |
| ac20 | 5180 | Ant2 | 4951.5 | -39.51 | 3 | 58.72 | Peak | 68.2 | Pass |
| ac20 | 5180 | Ant2 | 4962.7 | -49.78 | 3 | 48.45 | Average | 54 | Pass |
| ac20 | 5180 | Ant2 | 5150 | -42.91 | 3 | 55.32 | Peak | 68.2 | Pass |
| ac20 | 5180 | Ant2 | 5150 | -52.47 | 3 | 45.76 | Average | 54 | Pass |
| ac20 | 5240 | Ant2 | 5350 | -43.31 | 3 | 54.92 | Peak | 68.2 | Pass |
| ac20 | 5240 | Ant2 | 5350 | -52.19 | 3 | 46.04 | Average | 54 | Pass |
| ac20 | 5240 | Ant2 | 5447.52 | -39.8 | 3 | 58.43 | Peak | 68.2 | Pass |
| ac20 | 5240 | Ant2 | 5448.24 | -49.98 | 3 | 48.25 | Average | 54 | Pass |
| ac20 | 5240 | Ant2 | 5460 | -43.45 | 3 | 54.78 | Peak | 68.2 | Pass |
| ac20 | 5240 | Ant2 | 5460 | -51.86 | 3 | 46.37 | Average | 54 | Pass |
| ac40 | 5190 | Ant2 | 4500 | -43.2 | 3 | 55.03 | Peak | 68.2 | Pass |
| ac40 | 5190 | Ant2 | 4500 | -52.12 | 3 | 46.11 | Average | 54 | Pass |
| ac40 | 5190 | Ant2 | 4961.36 | -39.44 | 3 | 58.79 | Peak | 68.2 | Pass |
| ac40 | 5190 | Ant2 | 4964.28 | -49.45 | 3 | 48.78 | Average | 54 | Pass |
| ac40 | 5190 | Ant2 | 5150 | -44.07 | 3 | 54.16 | Peak | 68.2 | Pass |
| ac40 | 5190 | Ant2 | 5150 | -51.91 | 3 | 46.32 | Average | 54 | Pass |
| ac40 | 5230 | Ant2 | 5350 | -43.13 | 3 | 55.1 | Peak | 68.2 | Pass |
| ac40 | 5230 | Ant2 | 5350 | -52.09 | 3 | 46.14 | Average | 54 | Pass |



| | | | | | | | | | |
|------|------|------|---------|--------|---|-------|---------|------|------|
| ac40 | 5230 | Ant2 | 5448.93 | -39.63 | 3 | 58.6 | Peak | 68.2 | Pass |
| ac40 | 5230 | Ant2 | 5448.12 | -49.88 | 3 | 48.35 | Average | 54 | Pass |
| ac40 | 5230 | Ant2 | 5460 | -42.43 | 3 | 55.8 | Peak | 68.2 | Pass |
| ac40 | 5230 | Ant2 | 5460 | -51.56 | 3 | 46.67 | Average | 54 | Pass |
| ac80 | 5210 | Ant2 | 4500 | -43.92 | 3 | 54.31 | Peak | 68.2 | Pass |
| ac80 | 5210 | Ant2 | 4500 | -51.25 | 3 | 46.98 | Average | 54 | Pass |
| ac80 | 5210 | Ant2 | 4942.4 | -39.72 | 3 | 58.51 | Peak | 68.2 | Pass |
| ac80 | 5210 | Ant2 | 4966.89 | -49.11 | 3 | 49.12 | Average | 54 | Pass |
| ac80 | 5210 | Ant2 | 5150 | -42.76 | 3 | 55.47 | Peak | 68.2 | Pass |
| ac80 | 5210 | Ant2 | 5150 | -51.58 | 3 | 46.65 | Average | 54 | Pass |



Antenna 1 & Antenna 2 MIMO mode:

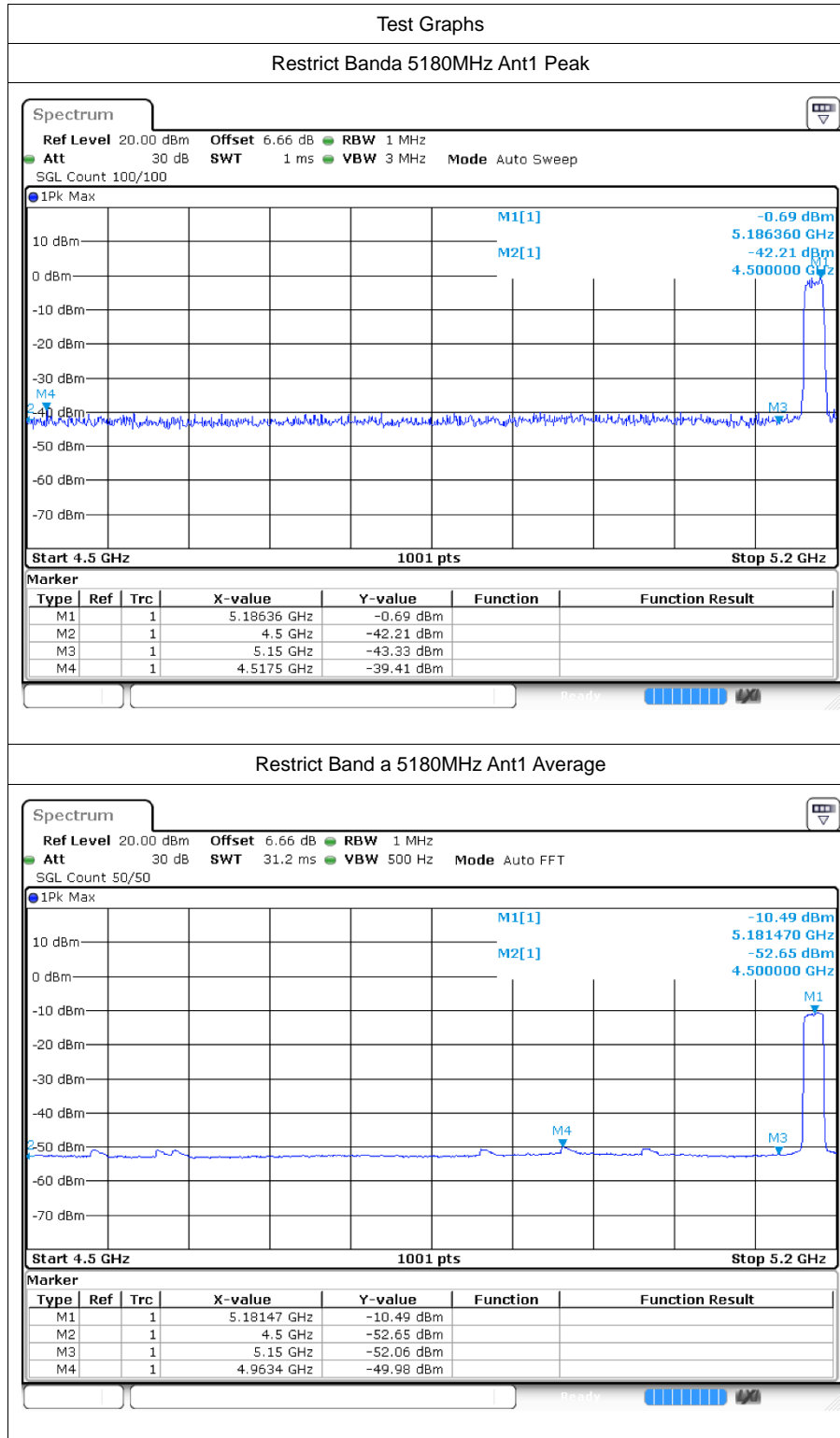
| Mode | Frequency (MHz) | Antenna | Spur Freq (MHz) | Total Power (dBm) | Gain (dBi) | E (dBuV/m) | Detector | Limit (dBuV/m) | Verdict |
|------|-----------------|---------|-----------------|-------------------|------------|------------|----------|----------------|---------|
| a | 5180 | Ant1+2 | 4500 | -39.26 | 6.01 | 61.98 | Peak | 68.2 | Pass |
| a | 5180 | Ant1+2 | 4500 | -49.64 | 6.01 | 51.60 | Average | 54 | Pass |
| a | 5180 | Ant1+2 | 4517.5 | -36.44 | 6.01 | 64.80 | Peak | 68.2 | Pass |
| a | 5180 | Ant1+2 | 4963.4 | -49.08 | 6.01 | 52.16 | Average | 54 | Pass |
| a | 5180 | Ant1+2 | 5150 | -39.35 | 6.01 | 61.89 | Peak | 68.2 | Pass |
| a | 5180 | Ant1+2 | 5150 | -49.24 | 6.01 | 52.00 | Average | 54 | Pass |
| a | 5240 | Ant1+2 | 5350 | -40.77 | 6.01 | 60.47 | Peak | 68.2 | Pass |
| a | 5240 | Ant1+2 | 5350 | -49.52 | 6.01 | 51.72 | Average | 54 | Pass |
| a | 5240 | Ant1+2 | 5459.28 | -36.16 | 6.01 | 65.08 | Peak | 68.2 | Pass |
| a | 5240 | Ant1+2 | 5449.2 | -48.54 | 6.01 | 52.70 | Average | 54 | Pass |
| a | 5240 | Ant1+2 | 5460 | -39.62 | 6.01 | 61.62 | Peak | 68.2 | Pass |
| a | 5240 | Ant1+2 | 5460 | -48.91 | 6.01 | 52.33 | Average | 54 | Pass |
| n20 | 5180 | Ant1+2 | 4500 | -39.75 | 6.01 | 61.49 | Peak | 68.2 | Pass |
| n20 | 5180 | Ant1+2 | 4500 | -49.42 | 6.01 | 51.82 | Average | 54 | Pass |
| n20 | 5180 | Ant1+2 | 4920 | -36.45 | 6.01 | 64.79 | Peak | 68.2 | Pass |
| n20 | 5180 | Ant1+2 | 4962.7 | -49.34 | 6.01 | 51.90 | Average | 54 | Pass |
| n20 | 5180 | Ant1+2 | 5150 | -39.67 | 6.01 | 61.57 | Peak | 68.2 | Pass |
| n20 | 5180 | Ant1+2 | 5150 | -49.06 | 6.01 | 52.18 | Average | 54 | Pass |
| n20 | 5240 | Ant1+2 | 5350 | -39.74 | 6.01 | 61.50 | Peak | 68.2 | Pass |
| n20 | 5240 | Ant1+2 | 5350 | -49.01 | 6.01 | 52.23 | Average | 54 | Pass |
| n20 | 5240 | Ant1+2 | 5379.84 | -36.92 | 6.01 | 64.32 | Peak | 68.2 | Pass |
| n20 | 5240 | Ant1+2 | 5447.52 | -49.13 | 6.01 | 52.11 | Average | 54 | Pass |
| n20 | 5240 | Ant1+2 | 5460 | -39.98 | 6.01 | 61.26 | Peak | 68.2 | Pass |
| n20 | 5240 | Ant1+2 | 5460 | -48.79 | 6.01 | 52.45 | Average | 54 | Pass |
| n40 | 5190 | Ant1+2 | 4500 | -39.12 | 6.01 | 62.12 | Peak | 68.2 | Pass |
| n40 | 5190 | Ant1+2 | 4500 | -49.35 | 6.01 | 51.89 | Average | 54 | Pass |
| n40 | 5190 | Ant1+2 | 5019.03 | -36.61 | 6.01 | 64.63 | Peak | 68.2 | Pass |
| n40 | 5190 | Ant1+2 | 4965.01 | -49.31 | 6.01 | 51.93 | Average | 54 | Pass |
| n40 | 5190 | Ant1+2 | 5150 | -39.23 | 6.01 | 62.01 | Peak | 68.2 | Pass |
| n40 | 5190 | Ant1+2 | 5150 | -48.58 | 6.01 | 52.66 | Average | 54 | Pass |
| n40 | 5230 | Ant1+2 | 5350 | -39.74 | 6.01 | 61.50 | Peak | 68.2 | Pass |
| n40 | 5230 | Ant1+2 | 5350 | -48.77 | 6.01 | 52.47 | Average | 54 | Pass |
| n40 | 5230 | Ant1+2 | 5450.28 | -37.37 | 6.01 | 63.87 | Peak | 68.2 | Pass |
| n40 | 5230 | Ant1+2 | 5450.01 | -48.75 | 6.01 | 52.49 | Average | 54 | Pass |
| n40 | 5230 | Ant1+2 | 5460 | -38.89 | 6.01 | 62.35 | Peak | 68.2 | Pass |
| n40 | 5230 | Ant1+2 | 5460 | -48.26 | 6.01 | 52.98 | Average | 54 | Pass |
| ac20 | 5180 | Ant1+2 | 4500 | -40.02 | 6.01 | 61.22 | Peak | 68.2 | Pass |

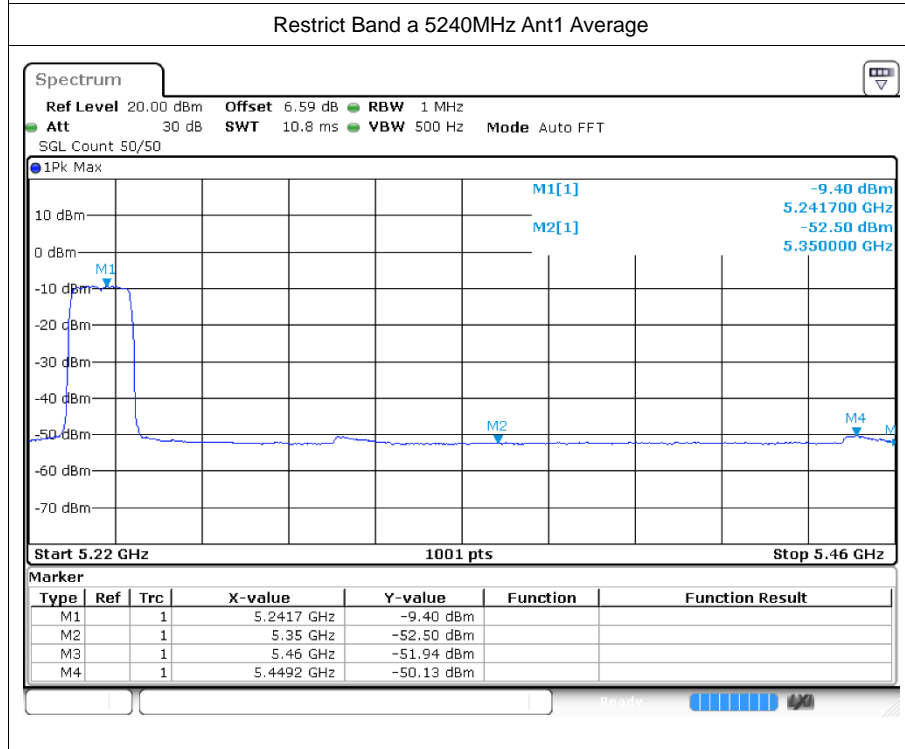
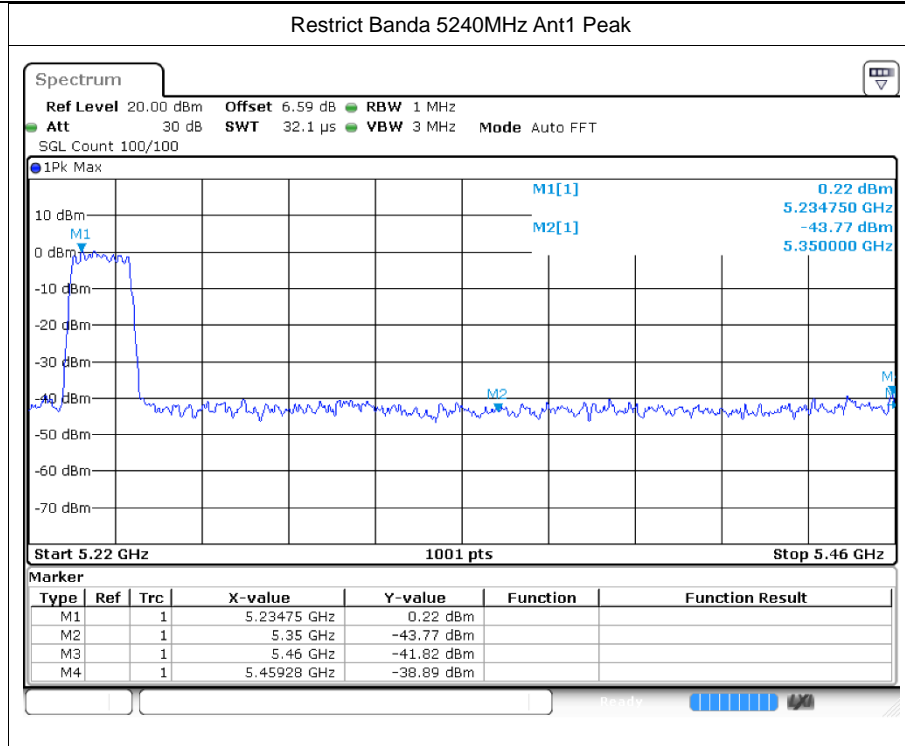


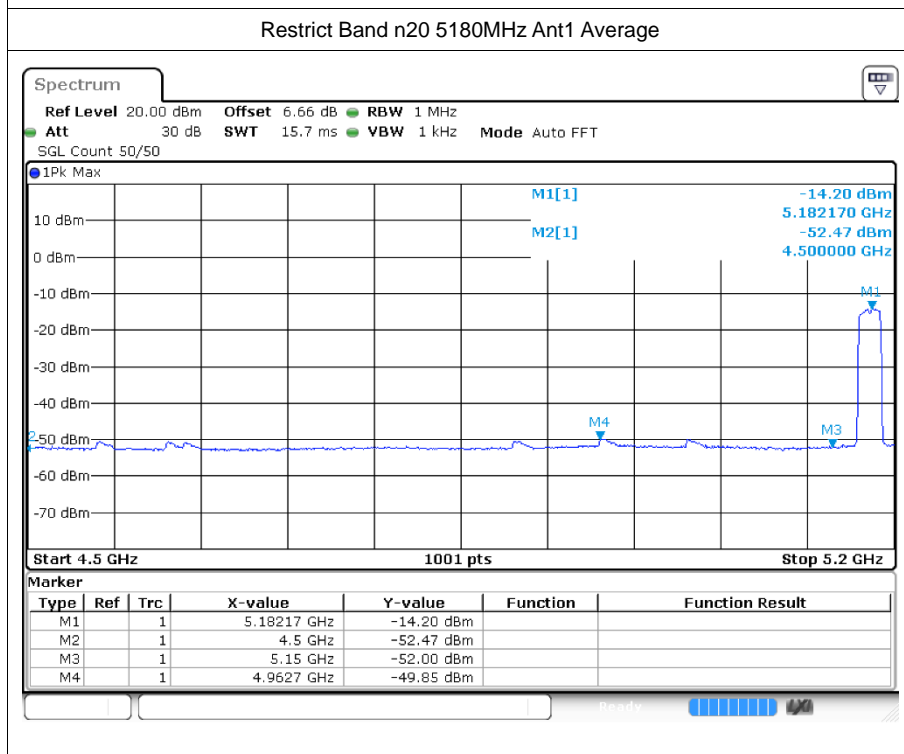
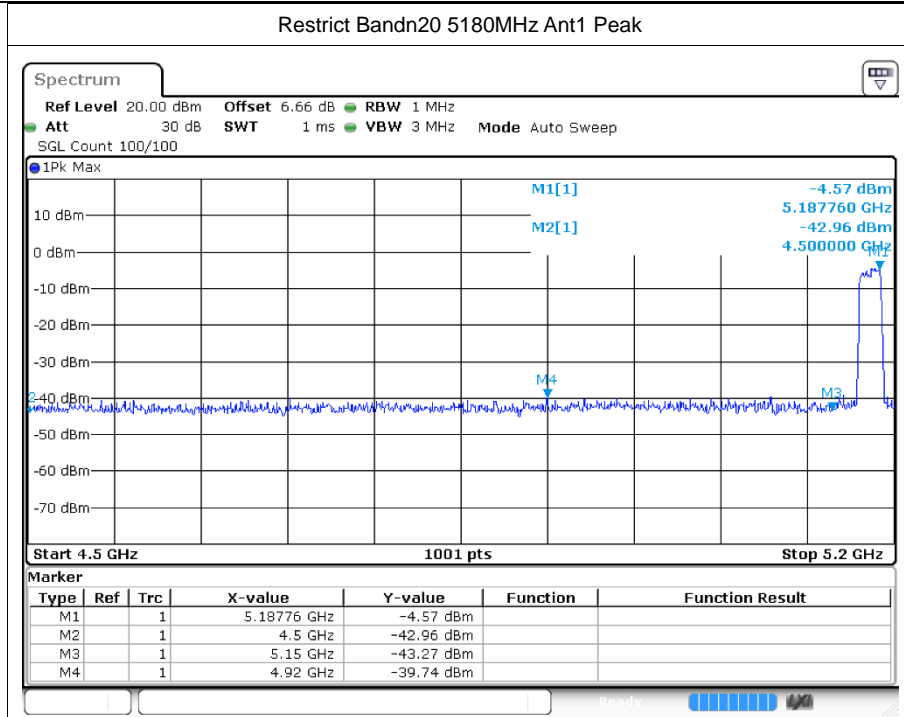
| | | | | | | | | | |
|------|------|--------|---------|--------|------|-------|---------|------|------|
| ac20 | 5180 | Ant1+2 | 4500 | -49.48 | 6.01 | 51.76 | Average | 54 | Pass |
| ac20 | 5180 | Ant1+2 | 4997 | -36.53 | 6.01 | 64.71 | Peak | 68.2 | Pass |
| ac20 | 5180 | Ant1+2 | 4964.1 | -48.85 | 6.01 | 52.39 | Average | 54 | Pass |
| ac20 | 5180 | Ant1+2 | 5150 | -39.80 | 6.01 | 61.44 | Peak | 68.2 | Pass |
| ac20 | 5180 | Ant1+2 | 5150 | -49.28 | 6.01 | 51.96 | Average | 54 | Pass |
| ac20 | 5240 | Ant1+2 | 5350 | -40.10 | 6.01 | 61.14 | Peak | 68.2 | Pass |
| ac20 | 5240 | Ant1+2 | 5350 | -49.21 | 6.01 | 52.03 | Average | 54 | Pass |
| ac20 | 5240 | Ant1+2 | 5448.24 | -36.56 | 6.01 | 64.68 | Peak | 68.2 | Pass |
| ac20 | 5240 | Ant1+2 | 5449.44 | -48.60 | 6.01 | 52.64 | Average | 54 | Pass |
| ac20 | 5240 | Ant1+2 | 5460 | -40.17 | 6.01 | 61.07 | Peak | 68.2 | Pass |
| ac20 | 5240 | Ant1+2 | 5460 | -48.75 | 6.01 | 52.49 | Average | 54 | Pass |
| ac40 | 5190 | Ant1+2 | 4500 | -40.40 | 6.01 | 60.84 | Peak | 68.2 | Pass |
| ac40 | 5190 | Ant1+2 | 4500 | -48.96 | 6.01 | 52.28 | Average | 54 | Pass |
| ac40 | 5190 | Ant1+2 | 4796.38 | -36.54 | 6.01 | 64.70 | Peak | 68.2 | Pass |
| ac40 | 5190 | Ant1+2 | 4964.28 | -48.83 | 6.01 | 52.41 | Average | 54 | Pass |
| ac40 | 5190 | Ant1+2 | 5150 | -40.07 | 6.01 | 61.17 | Peak | 68.2 | Pass |
| ac40 | 5190 | Ant1+2 | 5150 | -48.72 | 6.01 | 52.52 | Average | 54 | Pass |
| ac40 | 5230 | Ant1+2 | 5350 | -40.17 | 6.01 | 61.07 | Peak | 68.2 | Pass |
| ac40 | 5230 | Ant1+2 | 5350 | -48.64 | 6.01 | 52.60 | Average | 54 | Pass |
| ac40 | 5230 | Ant1+2 | 5440.56 | -36.42 | 6.01 | 64.83 | Peak | 68.2 | Pass |
| ac40 | 5230 | Ant1+2 | 5447.85 | -49.26 | 6.01 | 51.98 | Average | 54 | Pass |
| ac40 | 5230 | Ant1+2 | 5460 | -39.28 | 6.01 | 61.96 | Peak | 68.2 | Pass |
| ac40 | 5230 | Ant1+2 | 5460 | -48.41 | 6.01 | 52.83 | Average | 54 | Pass |
| ac80 | 5210 | Ant1+2 | 4500 | -39.17 | 6.01 | 62.07 | Peak | 68.2 | Pass |
| ac80 | 5210 | Ant1+2 | 4500 | -48.47 | 6.01 | 52.77 | Average | 54 | Pass |
| ac80 | 5210 | Ant1+2 | 4940.03 | -36.63 | 6.01 | 64.61 | Peak | 68.2 | Pass |
| ac80 | 5210 | Ant1+2 | 4968.47 | -49.14 | 6.01 | 52.10 | Average | 54 | Pass |
| ac80 | 5210 | Ant1+2 | 5150 | -39.76 | 6.01 | 61.48 | Peak | 68.2 | Pass |
| ac80 | 5210 | Ant1+2 | 5150 | -48.25 | 6.01 | 52.99 | Average | 54 | Pass |

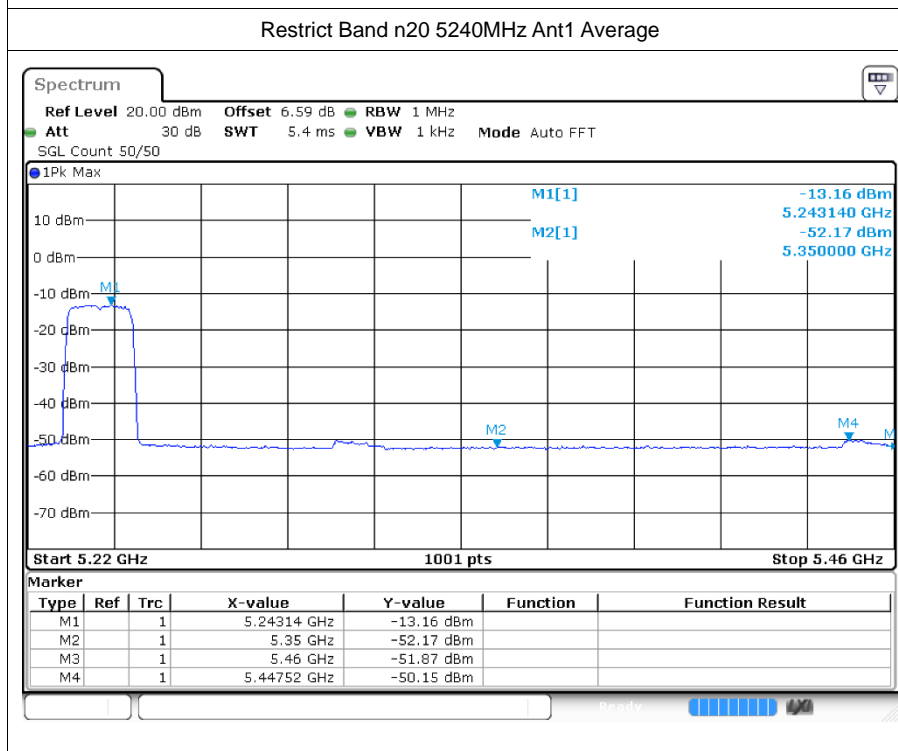
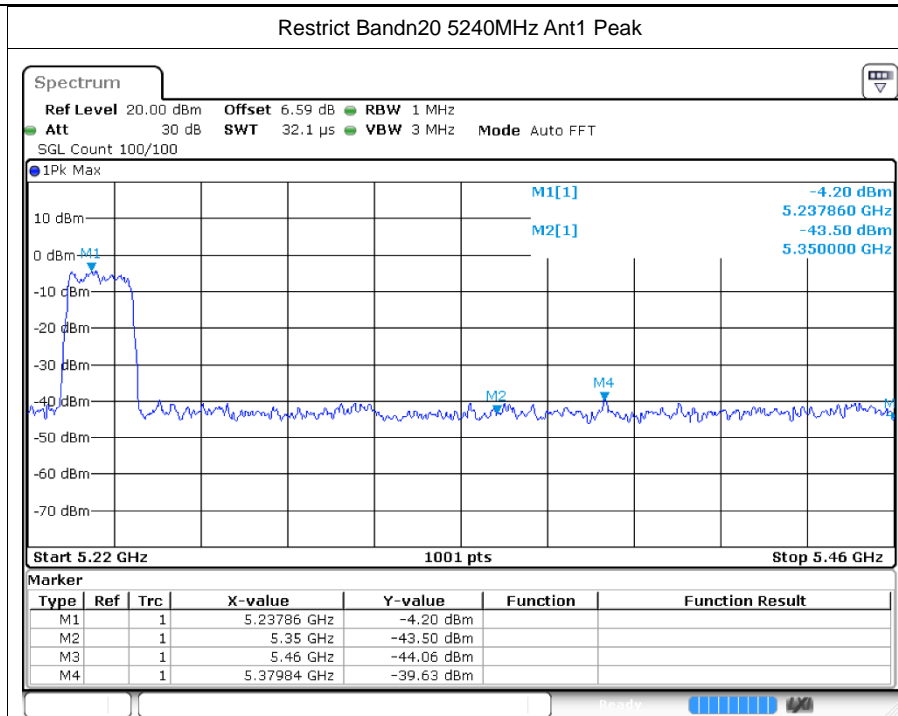


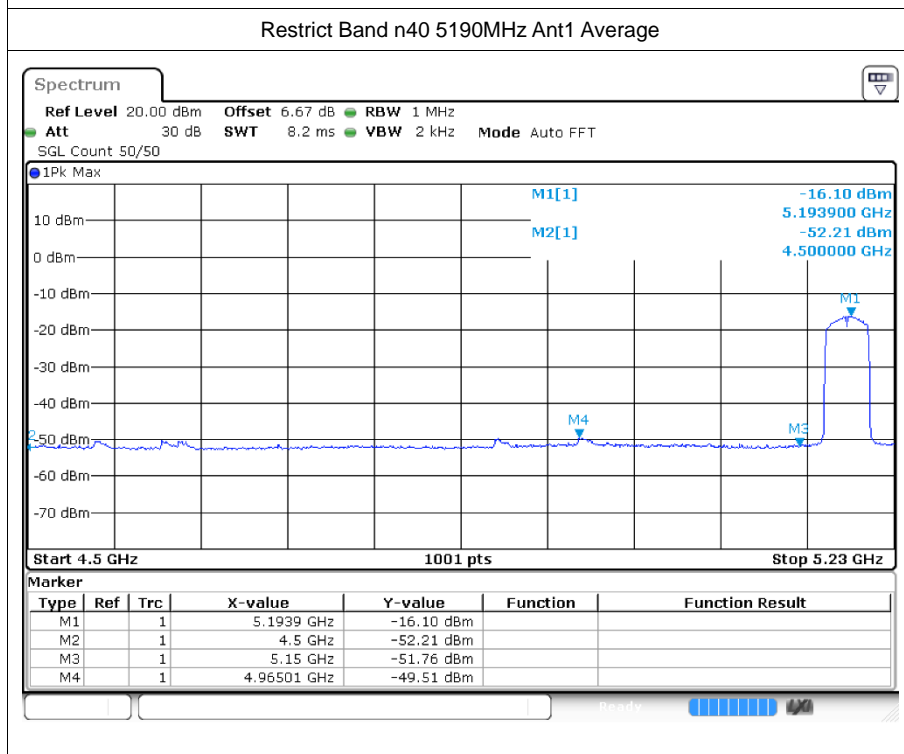
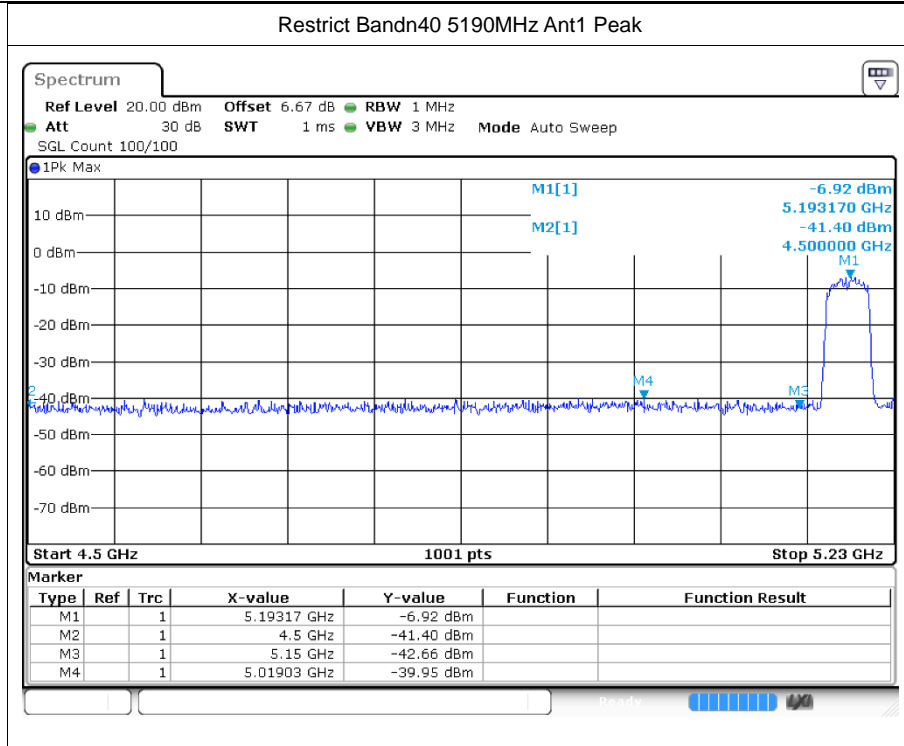
8.2 Test Graphs

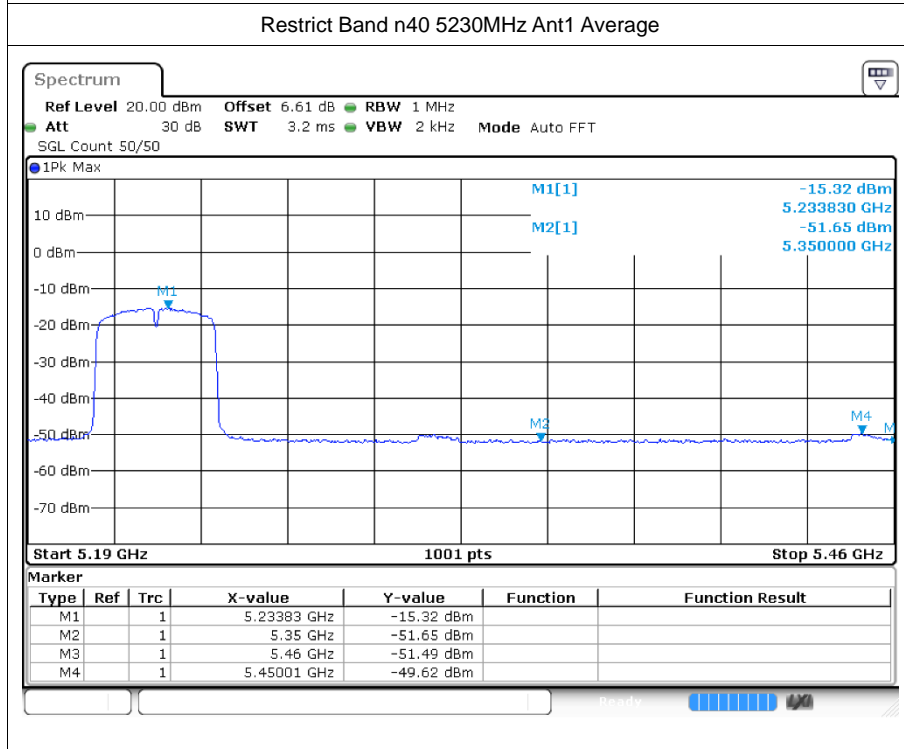
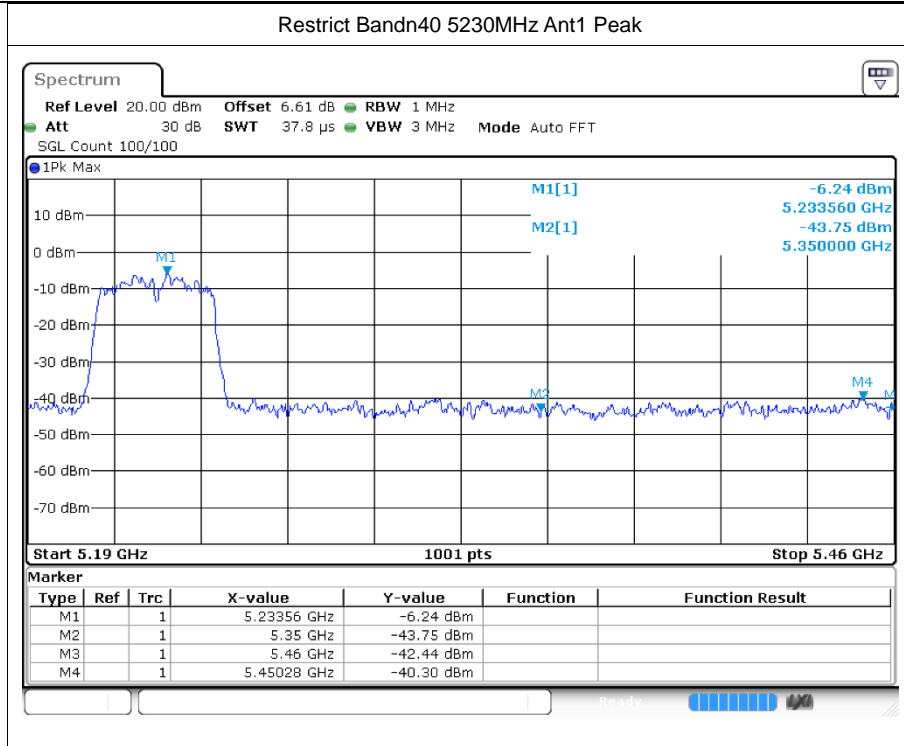


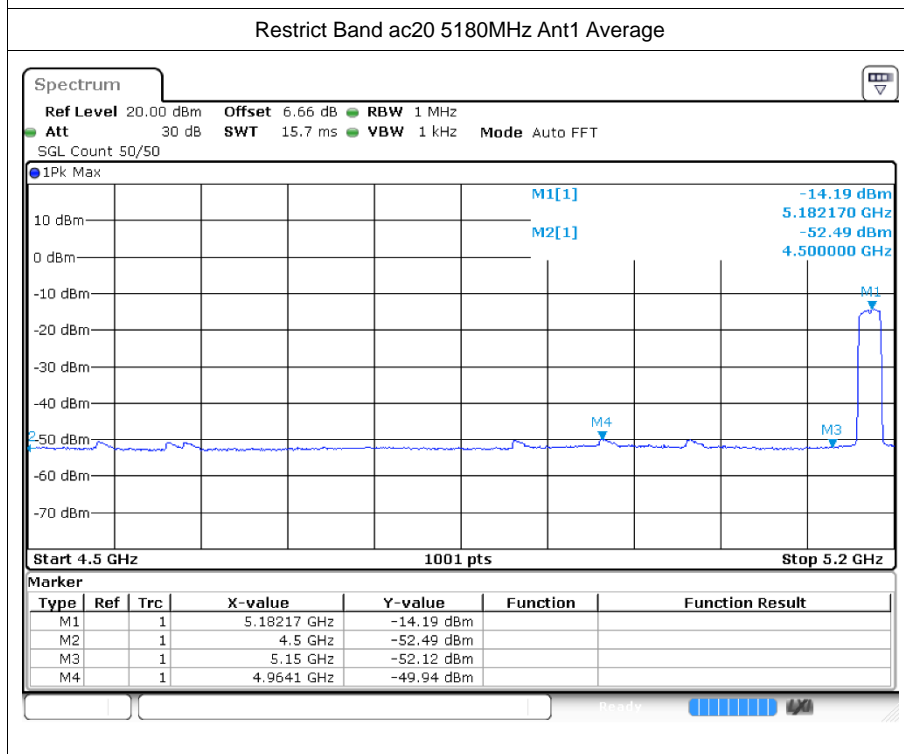
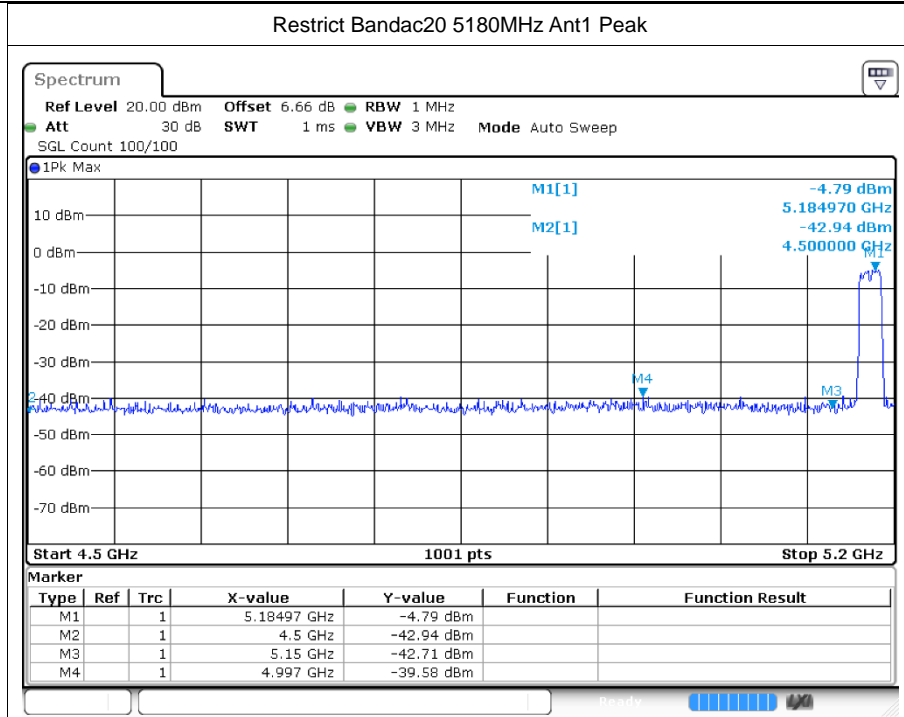


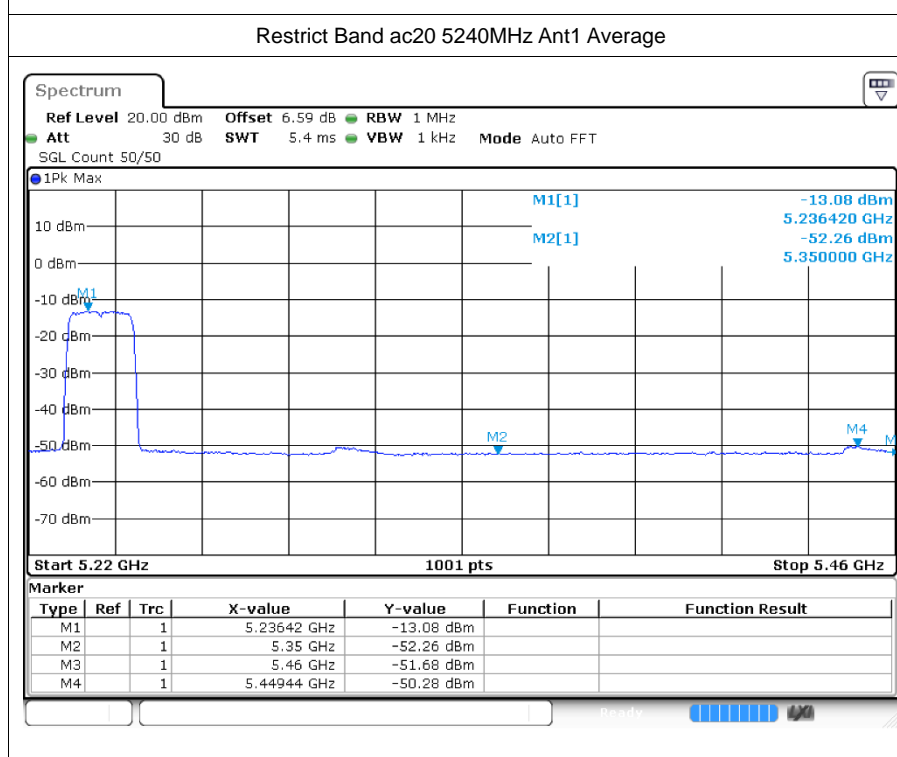
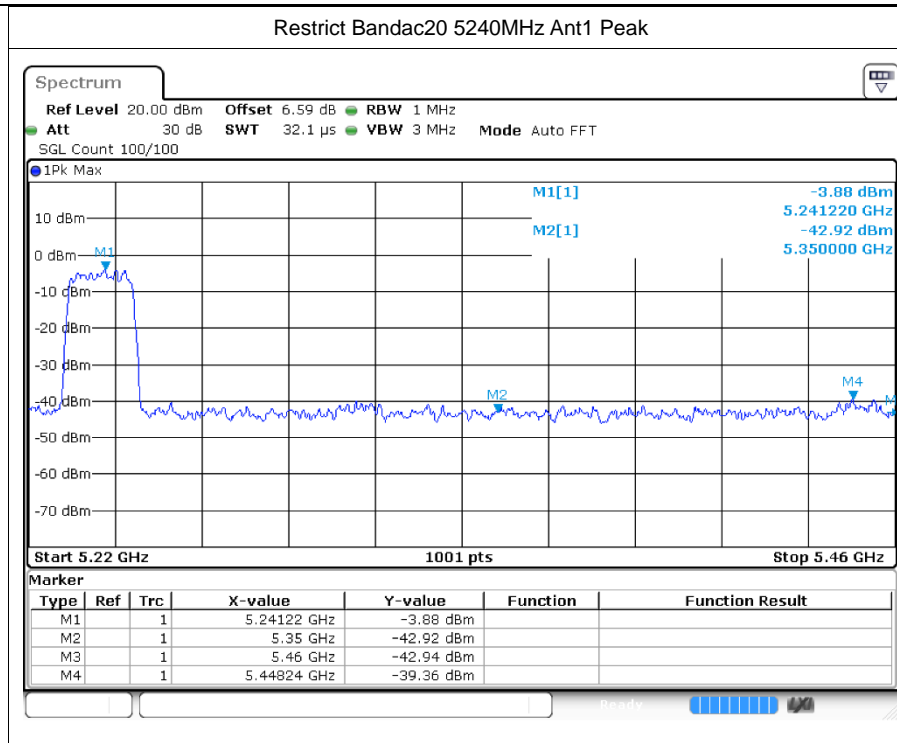


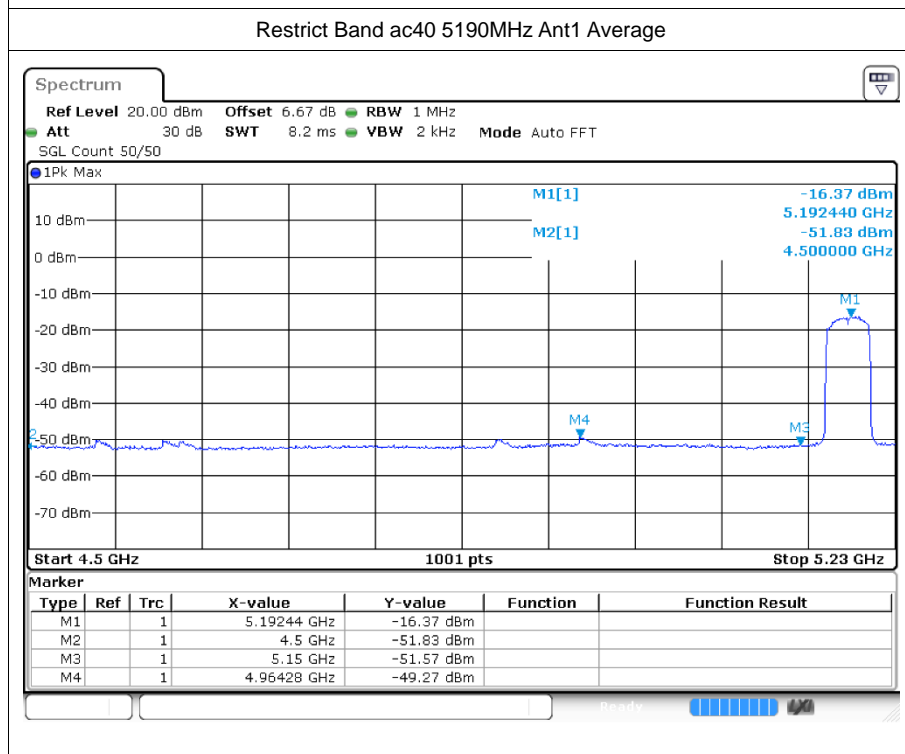
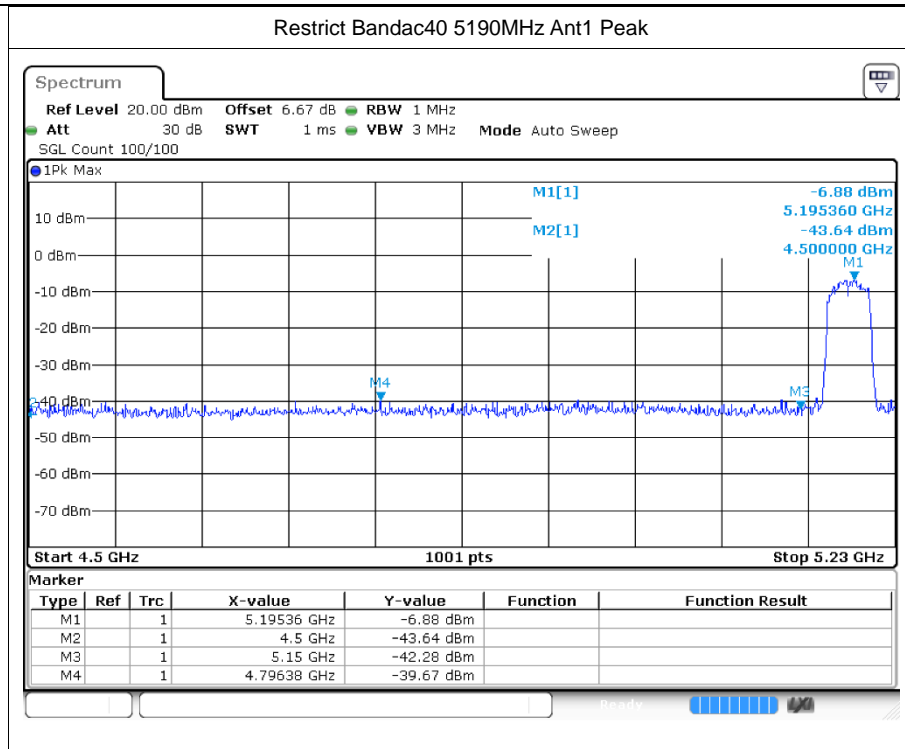


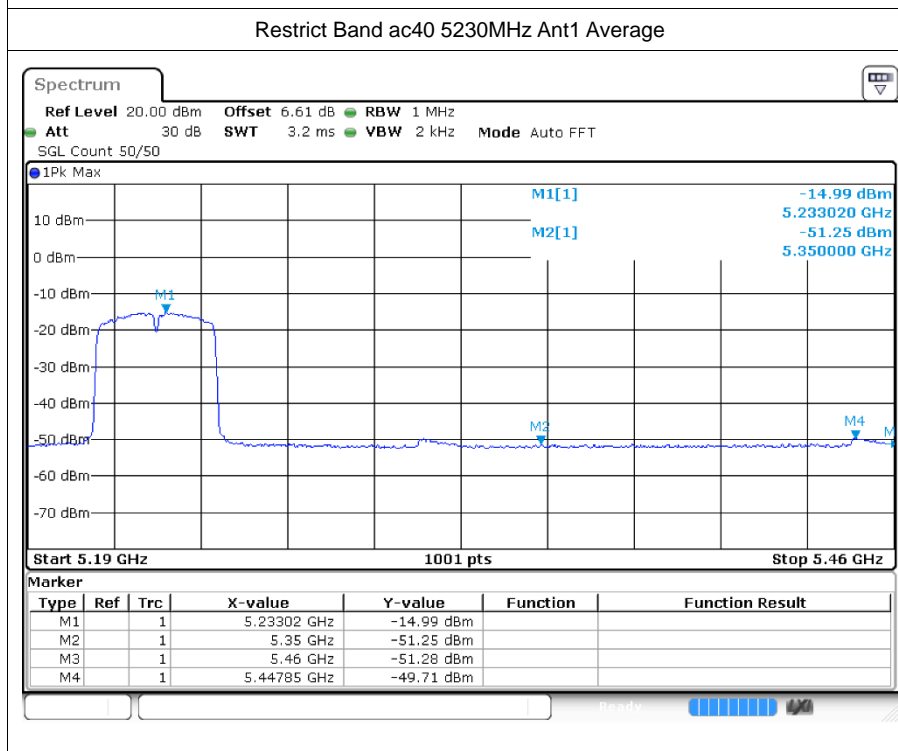
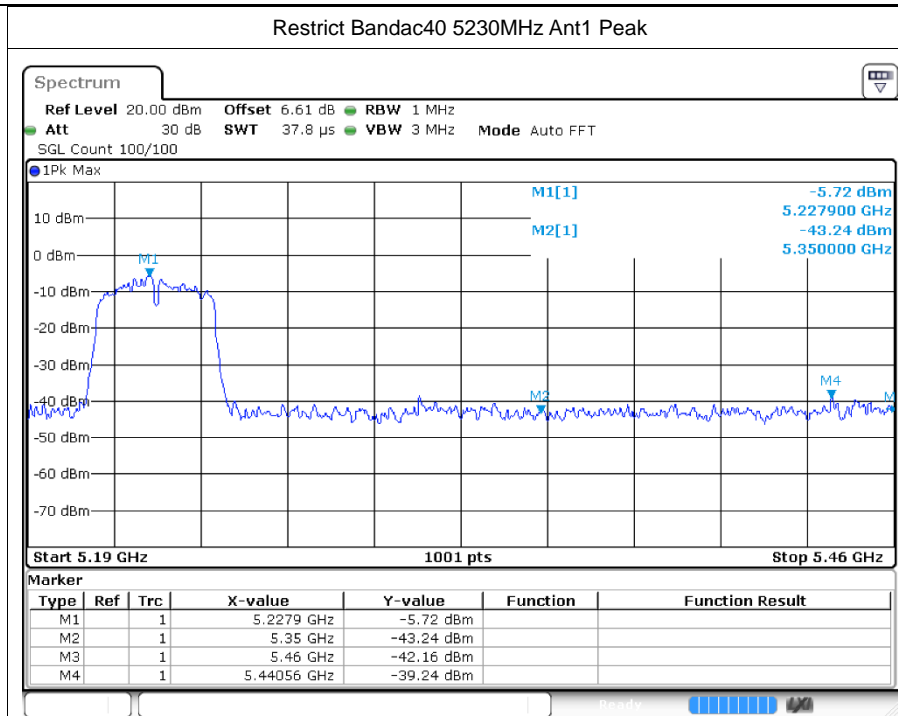


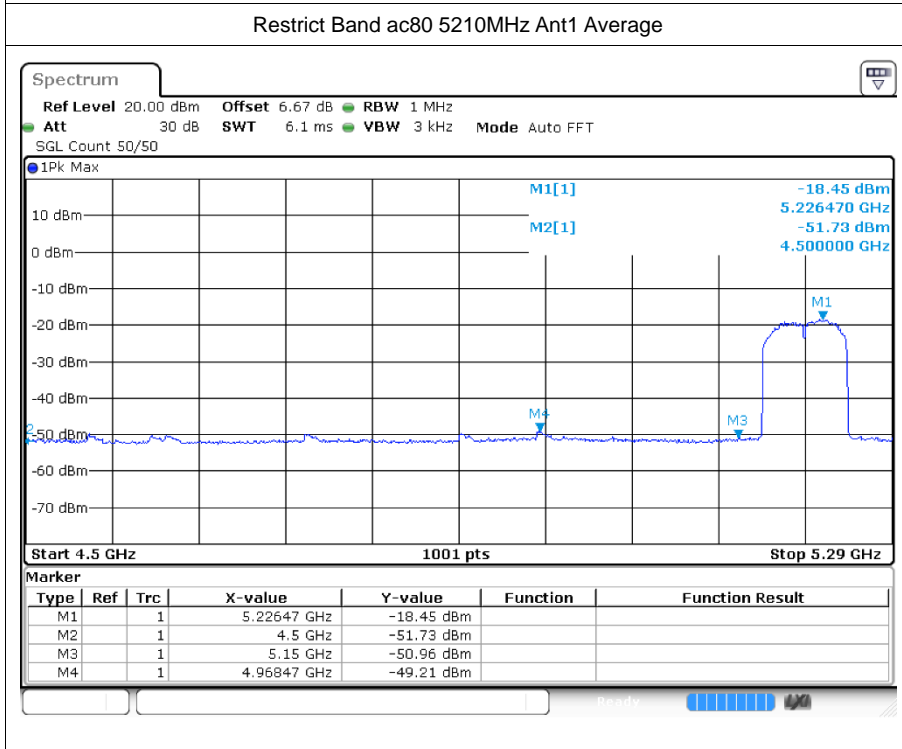
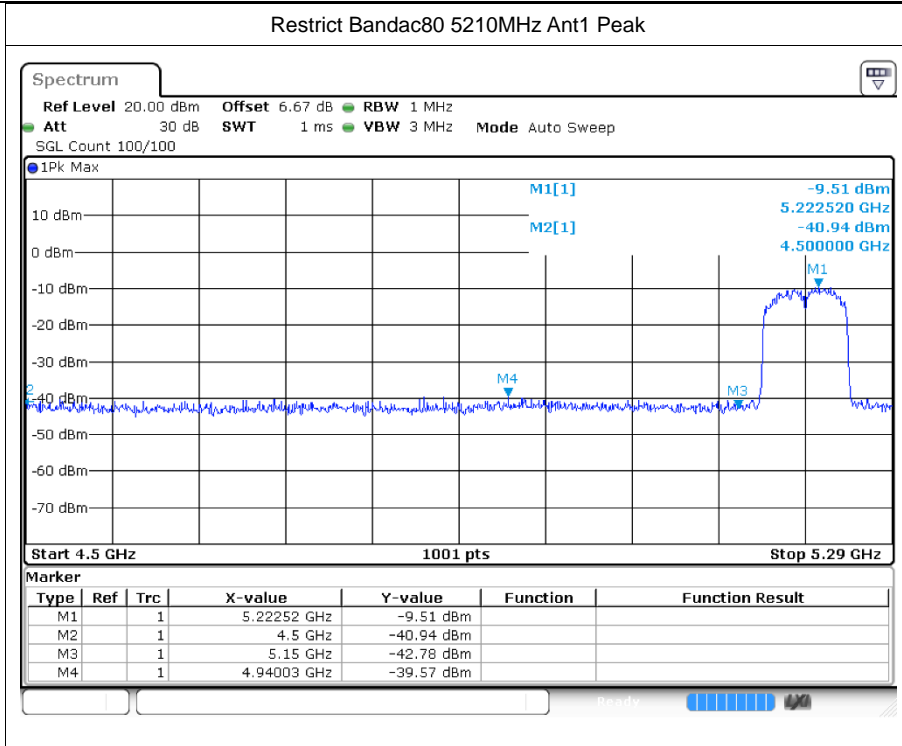


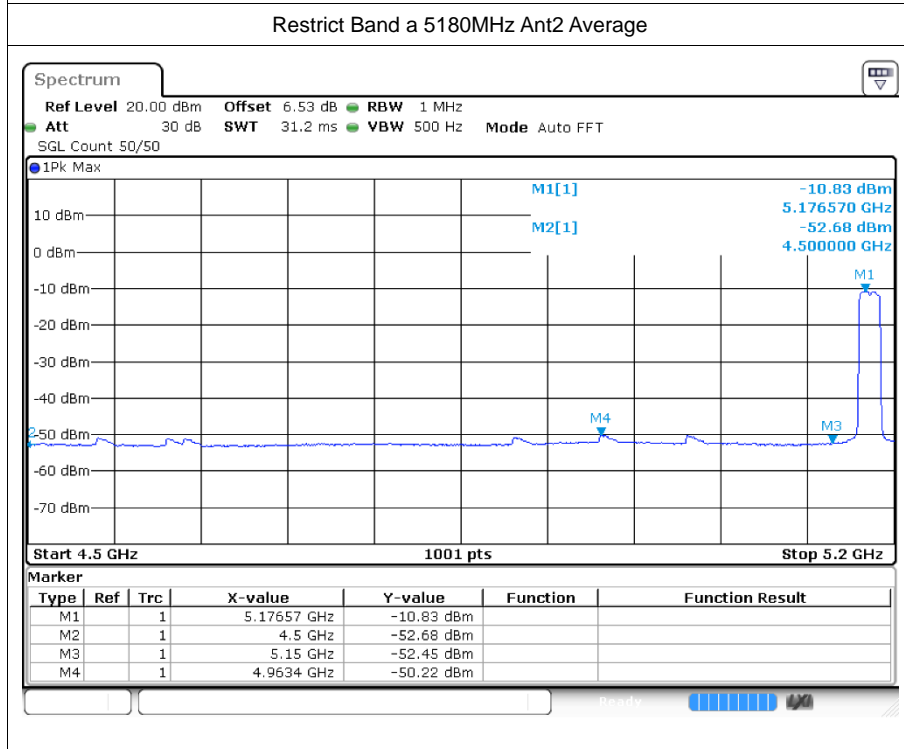
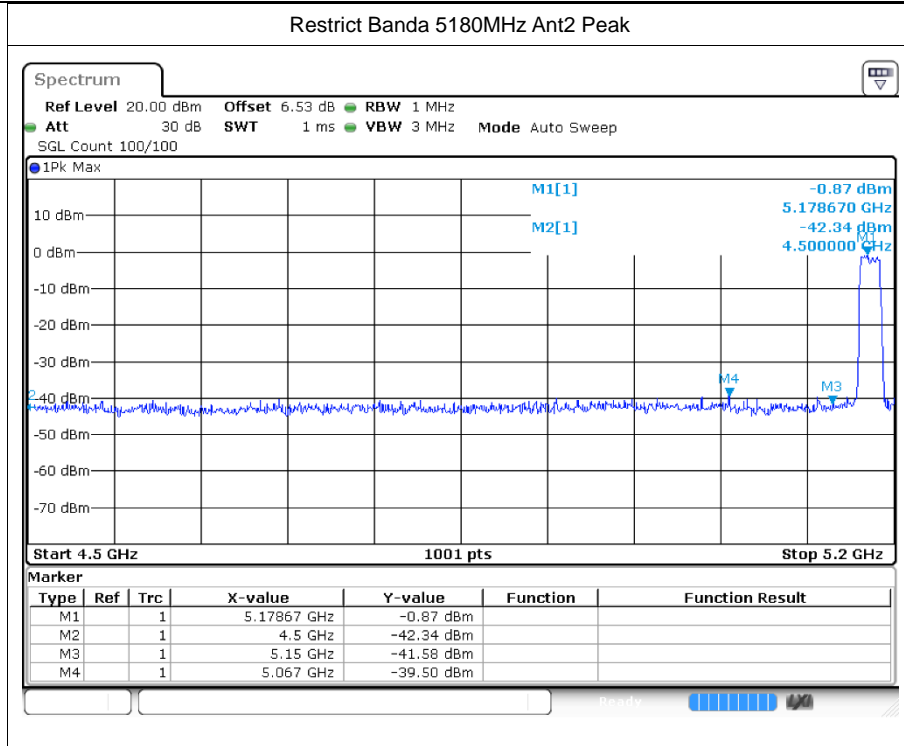


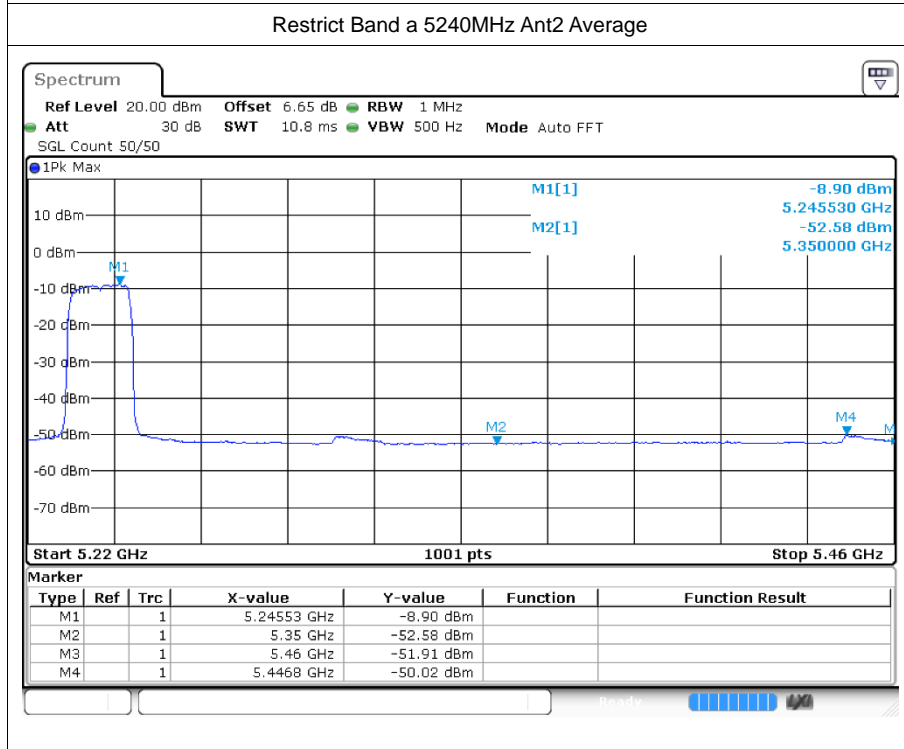
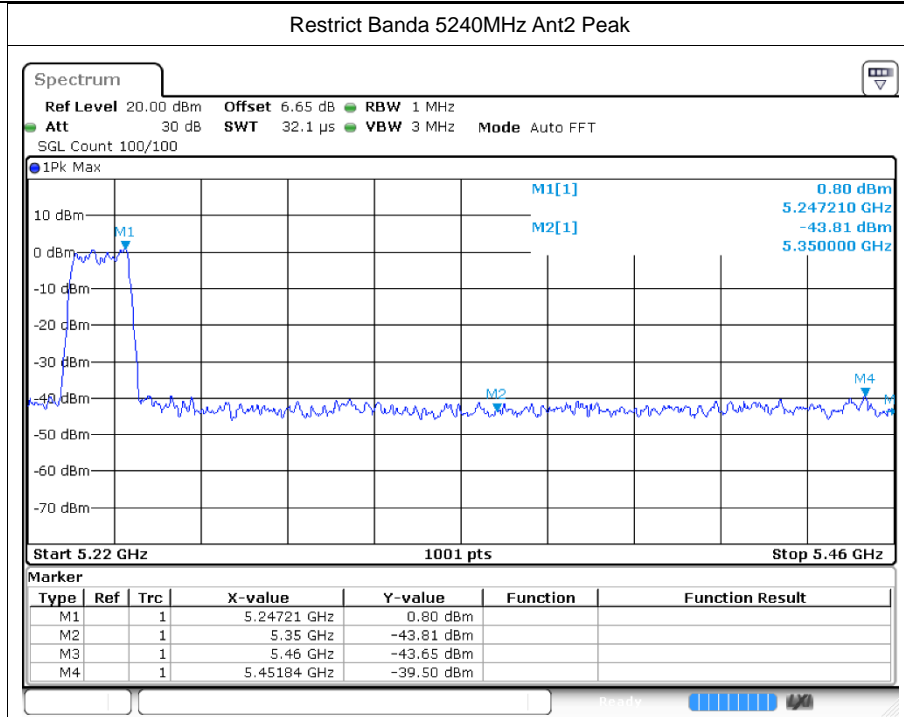


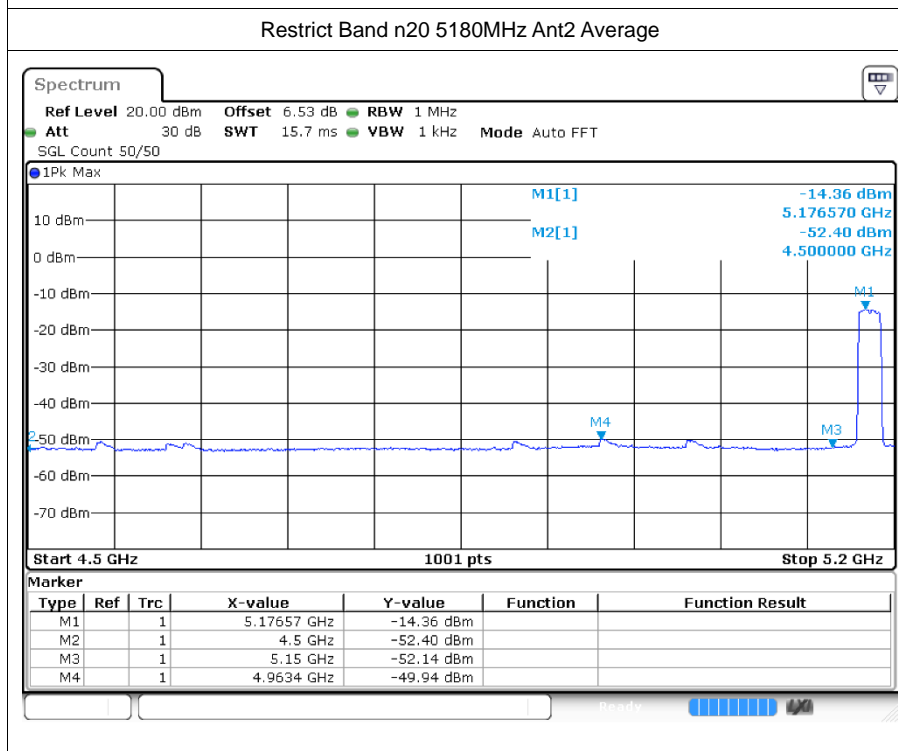
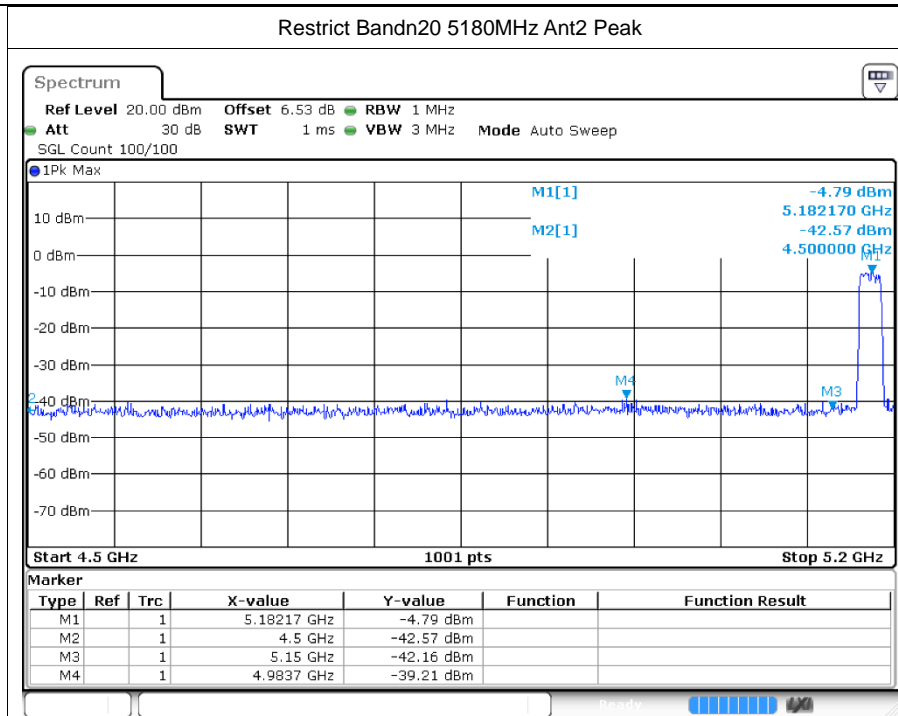


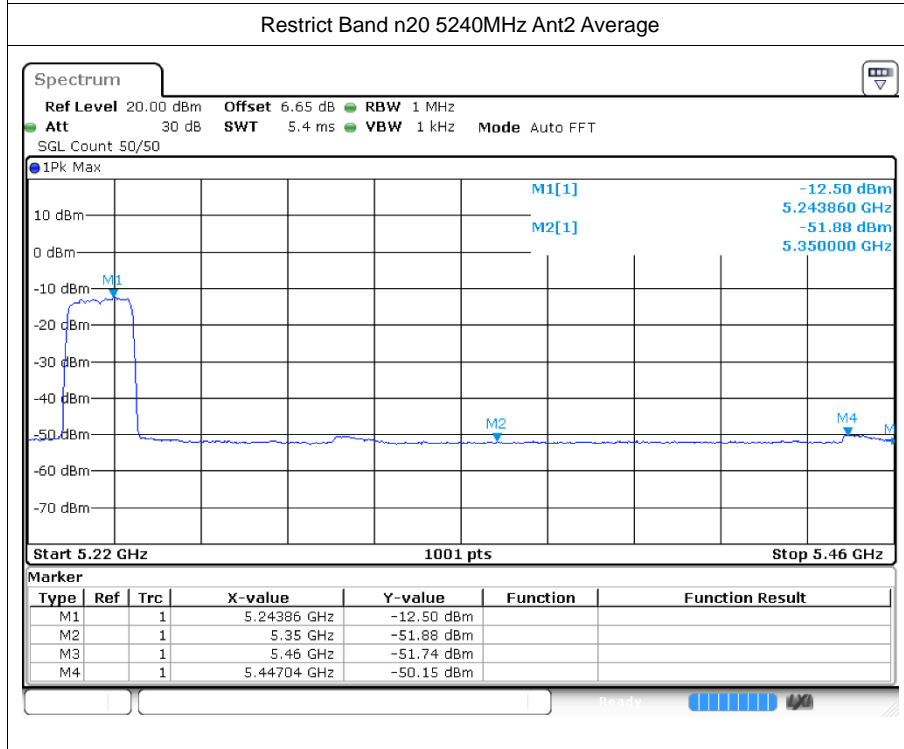
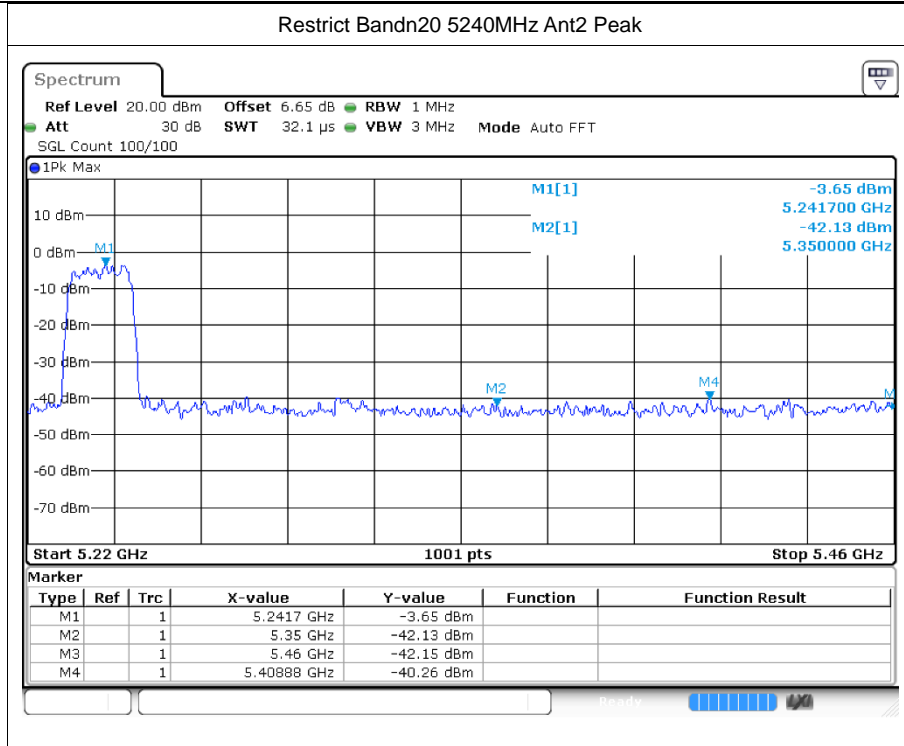


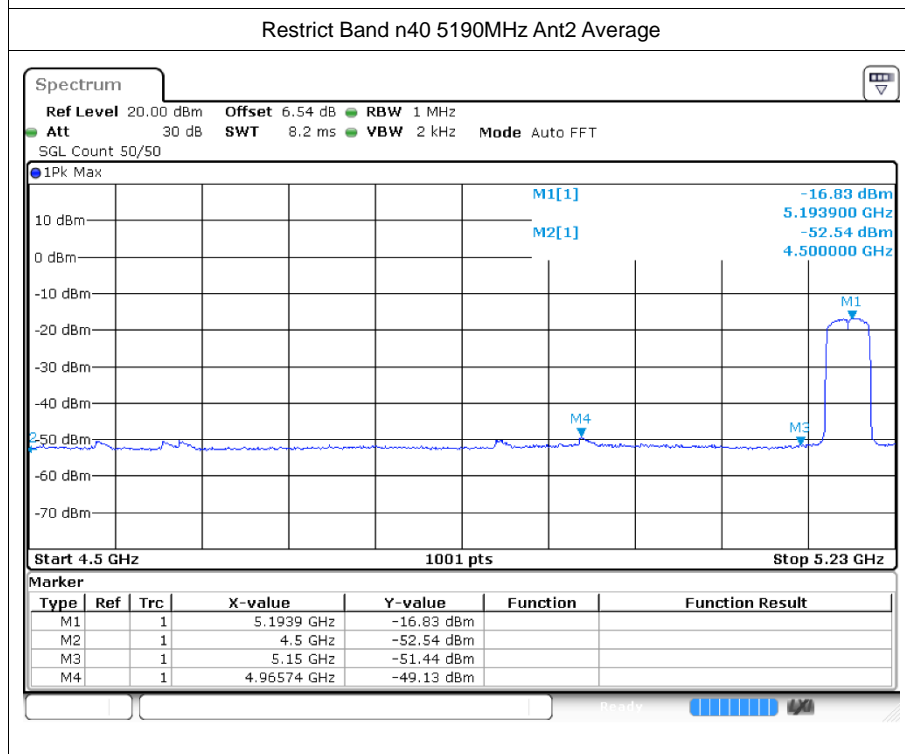
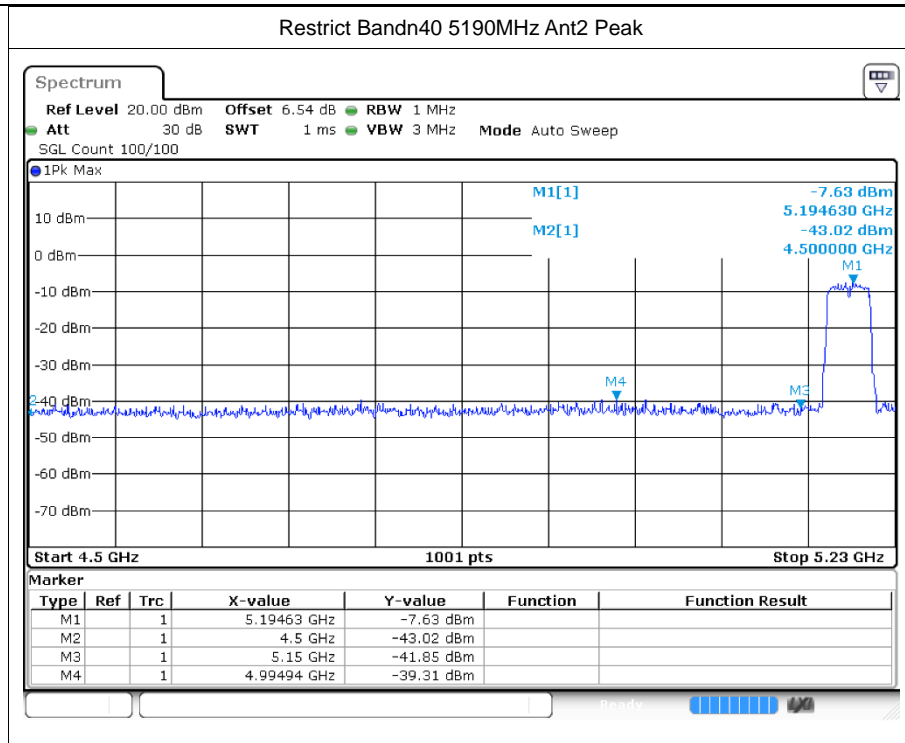


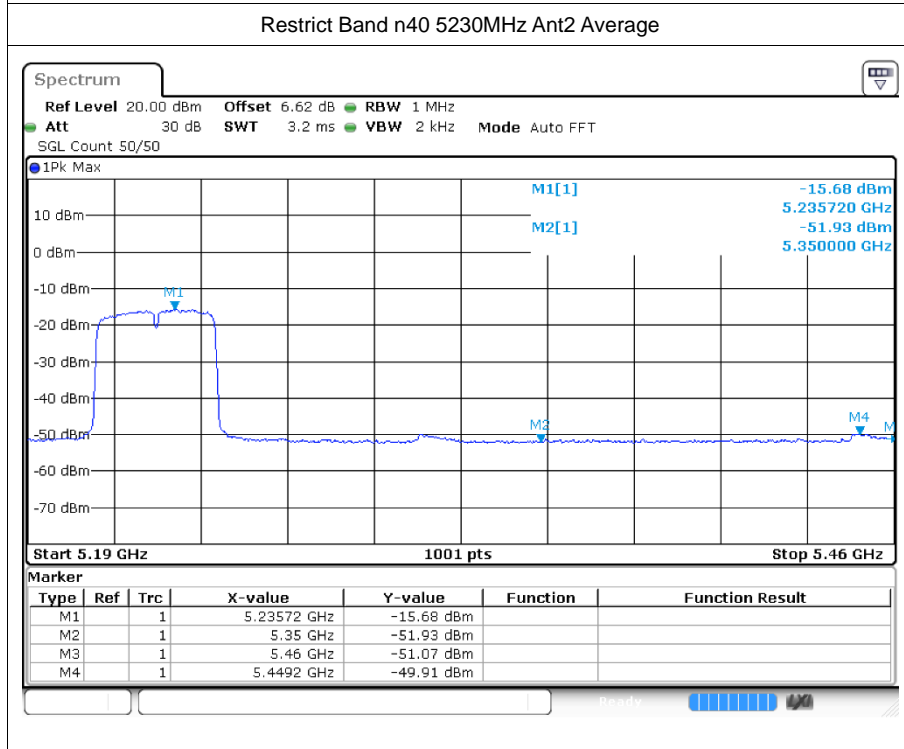
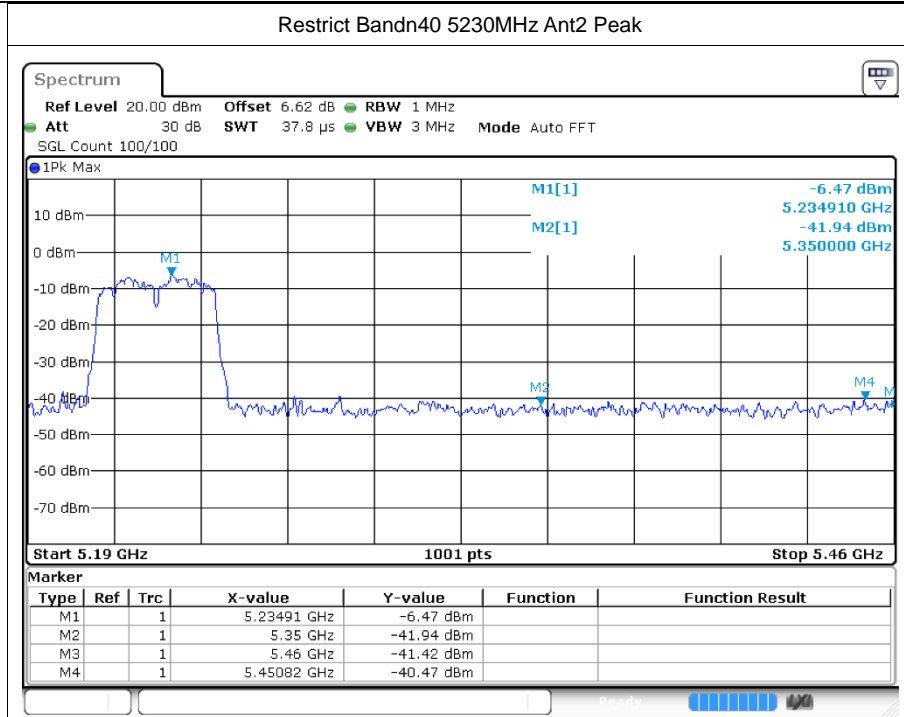


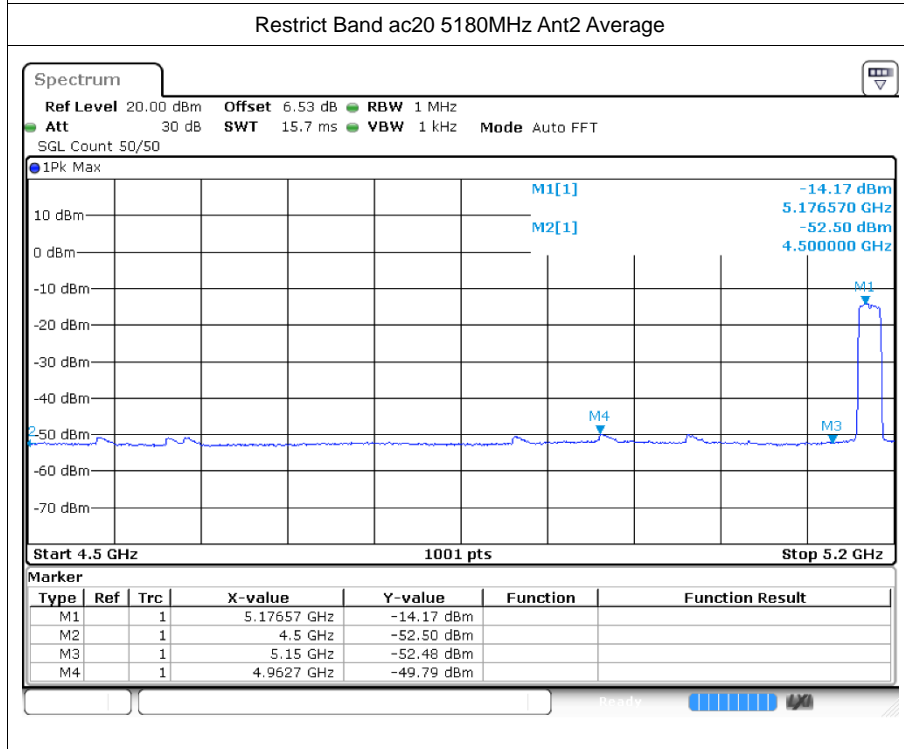
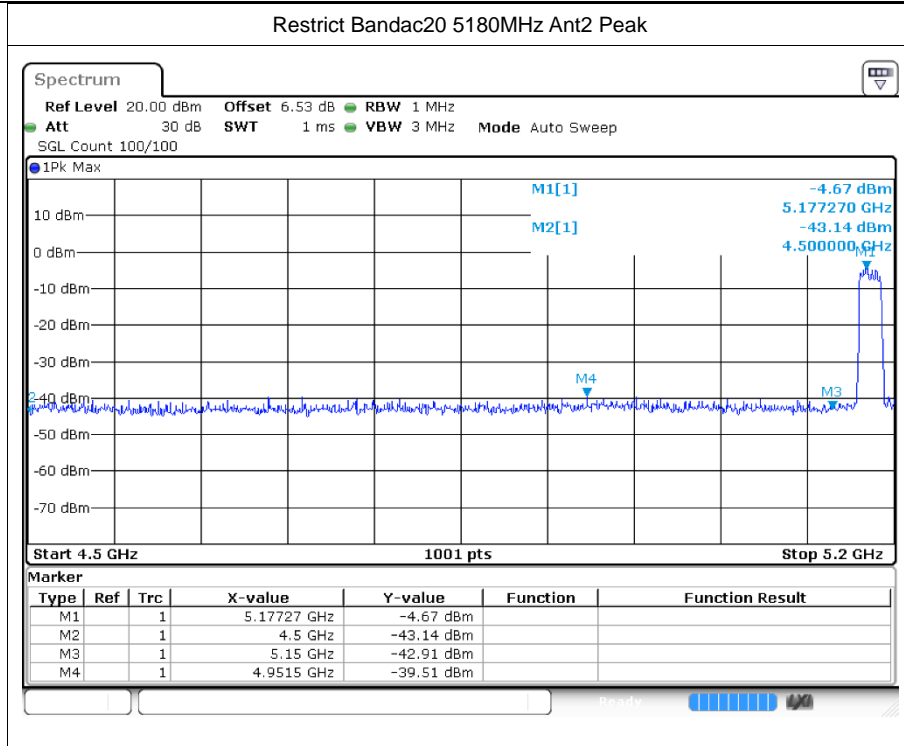


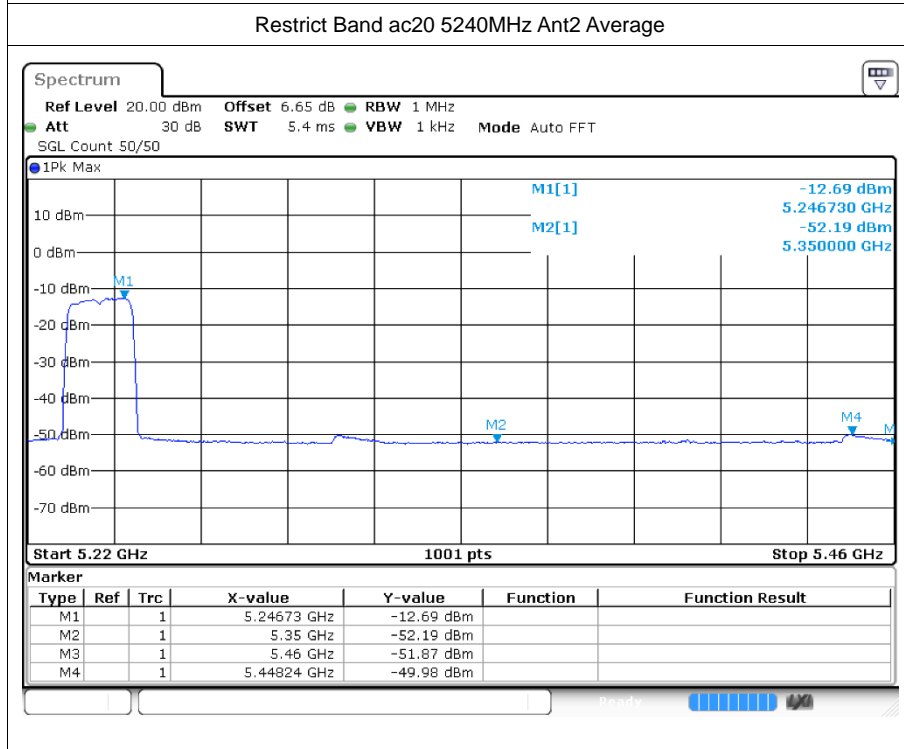
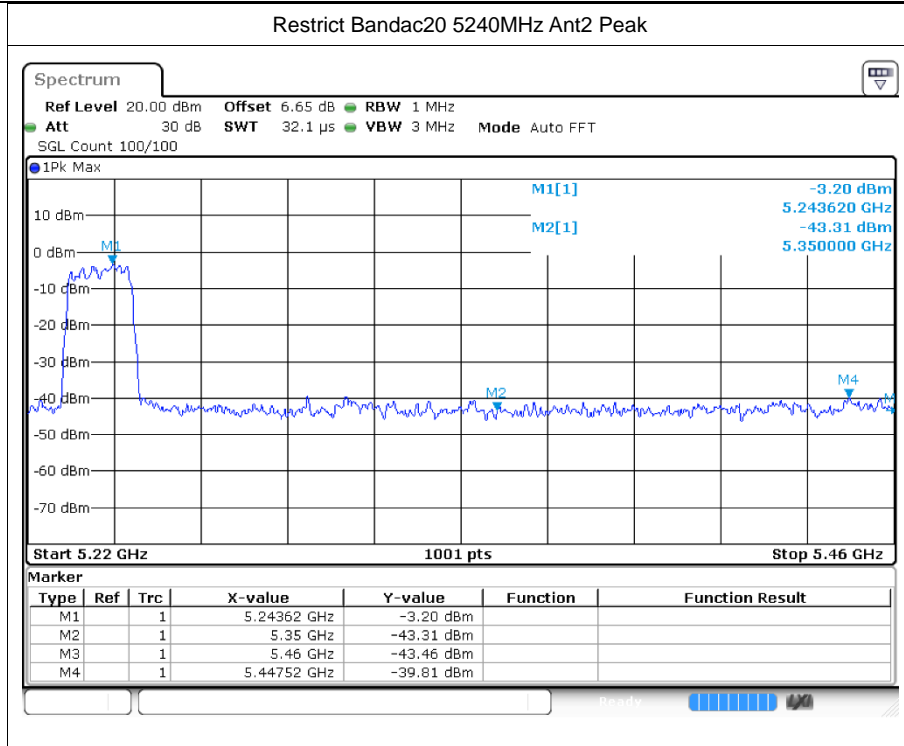


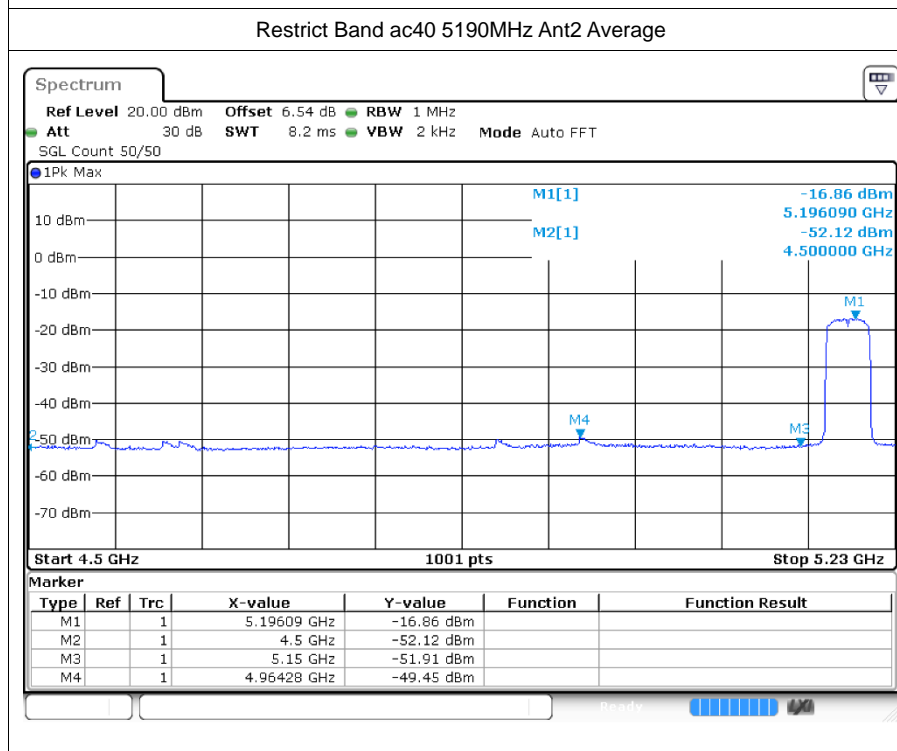
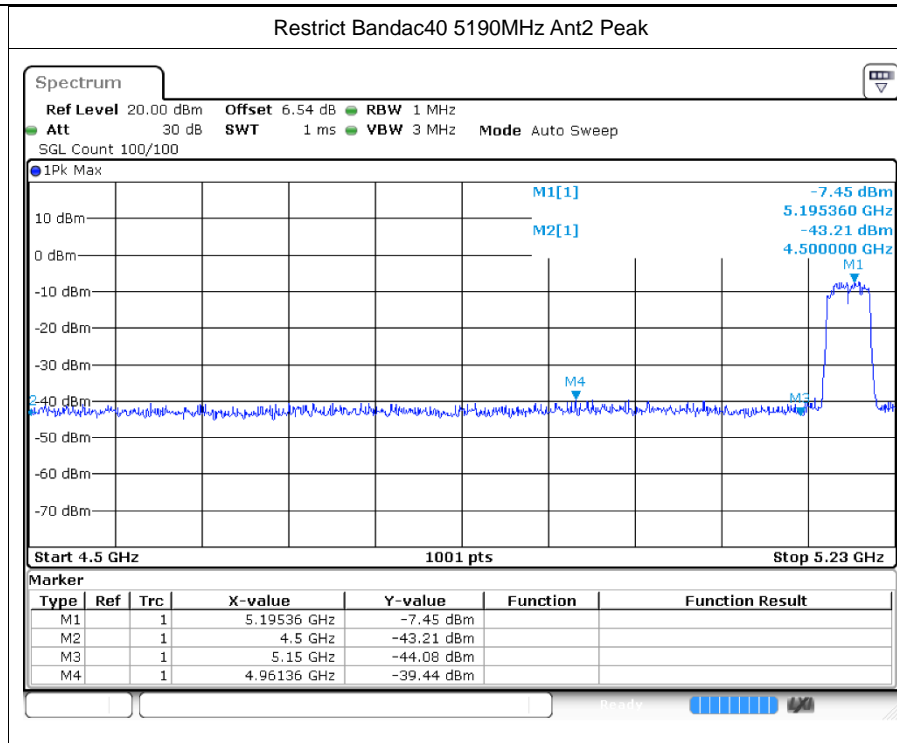






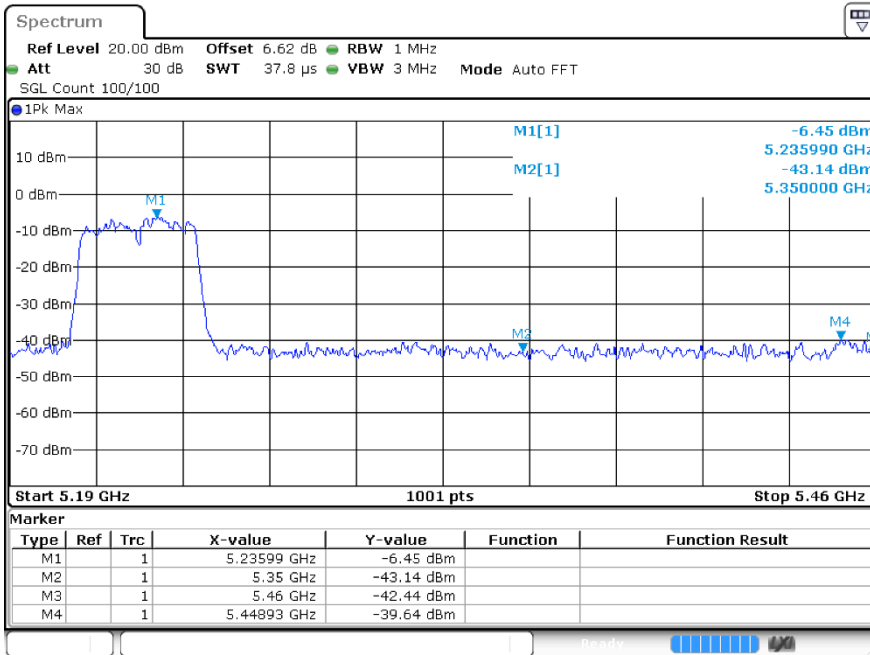








Restrict Band ac40 5230MHz Ant2 Peak



Restrict Band ac40 5230MHz Ant2 Average

