

## **Appendix for WIFI 5GHz**

Product Name: PC Motherboard

Model No: MS-Challenger B760ITX D5 WIFI

## Appendix A: Emission Bandwidth And Occupied Bandwidth

### Test Result

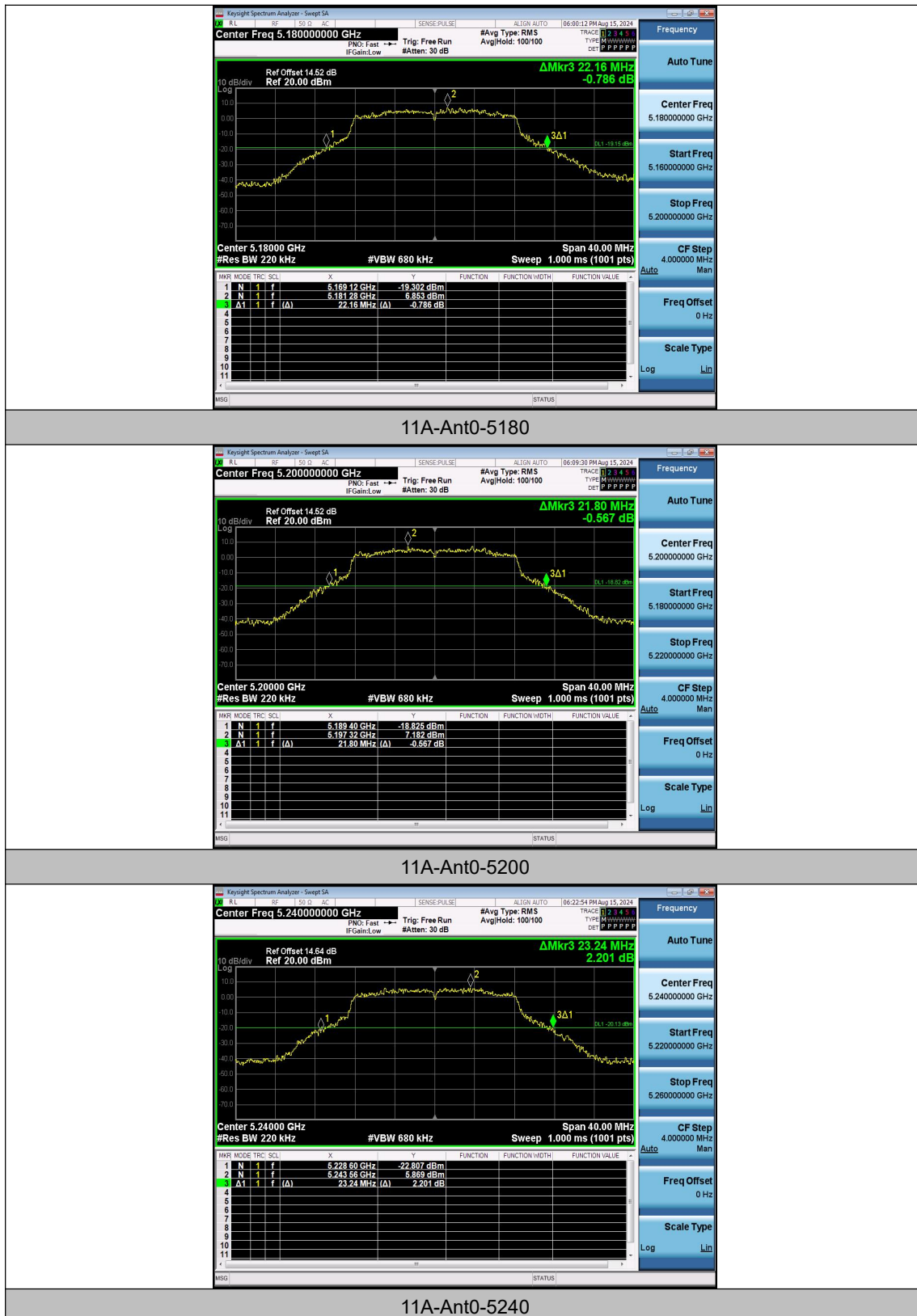
| TestMode   | Antenna | Frequency[MHz] | 26db<br>EBW<br>[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|------------|---------|----------------|----------------------|----------|----------|------------|---------|
| 11A        | Ant0    | 5180           | 22.160               | 5169.120 | 5191.280 | ---        | ---     |
| 11A        | Ant0    | 5200           | 21.800               | 5189.400 | 5211.200 | ---        | ---     |
| 11A        | Ant0    | 5240           | 23.240               | 5228.600 | 5251.840 | ---        | ---     |
| 11N20SISO  | Ant0    | 5180           | 23.240               | 5168.720 | 5191.960 | ---        | ---     |
| 11N20SISO  | Ant0    | 5200           | 22.640               | 5188.760 | 5211.400 | ---        | ---     |
| 11N20SISO  | Ant0    | 5240           | 22.480               | 5228.920 | 5251.400 | ---        | ---     |
| 11N40SISO  | Ant0    | 5190           | 42.880               | 5168.960 | 5211.840 | ---        | ---     |
| 11N40SISO  | Ant0    | 5230           | 42.240               | 5208.640 | 5250.880 | ---        | ---     |
| 11AC80SISO | Ant0    | 5210           | 84.320               | 5168.400 | 5252.720 | ---        | ---     |
| 11AX20SISO | Ant0    | 5180           | 22.880               | 5168.880 | 5191.760 | ---        | ---     |
| 11AX20SISO | Ant0    | 5200           | 22.200               | 5188.840 | 5211.040 | ---        | ---     |
| 11AX20SISO | Ant0    | 5240           | 22.720               | 5228.560 | 5251.280 | ---        | ---     |
| 11AX40SISO | Ant0    | 5190           | 41.280               | 5169.360 | 5210.640 | ---        | ---     |
| 11AX40SISO | Ant0    | 5230           | 42.080               | 5208.800 | 5250.880 | ---        | ---     |
| 11AX80SISO | Ant0    | 5210           | 83.520               | 5168.400 | 5251.920 | ---        | ---     |

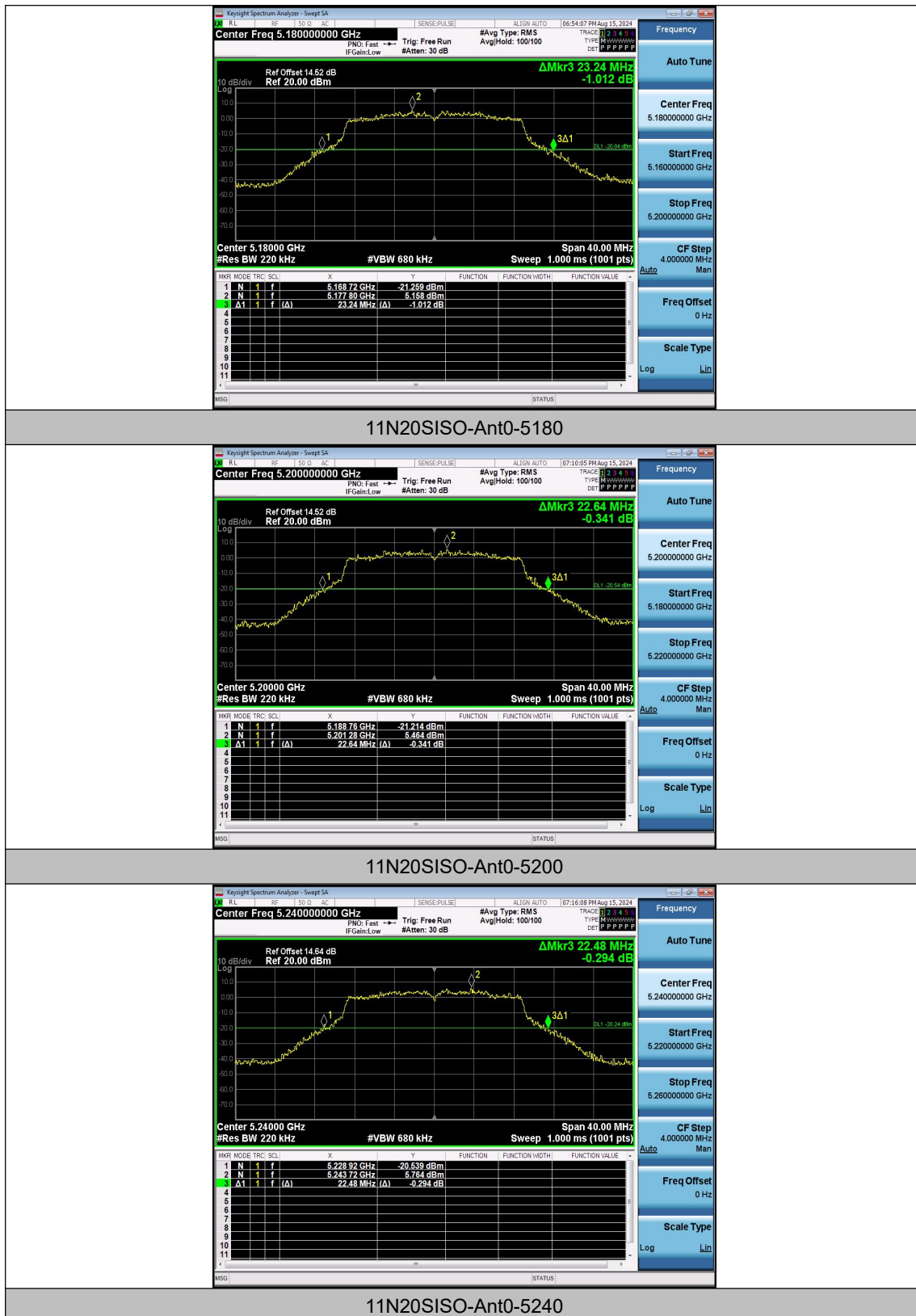
| TestMode   | Antenna | Frequency[MHz] | 26db<br>EBW<br>[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|------------|---------|----------------|----------------------|----------|----------|------------|---------|
| 11A        | Ant1    | 5180           | 22.200               | 5169.240 | 5191.440 | ---        | ---     |
| 11A        | Ant1    | 5200           | 22.840               | 5188.960 | 5211.800 | ---        | ---     |
| 11A        | Ant1    | 5240           | 22.440               | 5228.960 | 5251.400 | ---        | ---     |
| 11N20SISO  | Ant1    | 5180           | 23.440               | 5168.520 | 5191.960 | ---        | ---     |
| 11N20SISO  | Ant1    | 5200           | 23.240               | 5188.920 | 5212.160 | ---        | ---     |
| 11N20SISO  | Ant1    | 5240           | 22.960               | 5228.640 | 5251.600 | ---        | ---     |
| 11N40SISO  | Ant1    | 5190           | 43.920               | 5168.240 | 5212.160 | ---        | ---     |
| 11N40SISO  | Ant1    | 5230           | 42.320               | 5208.720 | 5251.040 | ---        | ---     |
| 11AC80SISO | Ant1    | 5210           | 84.000               | 5168.560 | 5252.560 | ---        | ---     |
| 11AX20SISO | Ant1    | 5180           | 22.760               | 5169.000 | 5191.760 | ---        | ---     |
| 11AX20SISO | Ant1    | 5200           | 22.360               | 5189.440 | 5211.800 | ---        | ---     |
| 11AX20SISO | Ant1    | 5240           | 22.160               | 5229.080 | 5251.240 | ---        | ---     |
| 11AX40SISO | Ant1    | 5190           | 40.800               | 5169.600 | 5210.400 | ---        | ---     |
| 11AX40SISO | Ant1    | 5230           | 41.840               | 5209.360 | 5251.200 | ---        | ---     |
| 11AX80SISO | Ant1    | 5210           | 82.080               | 5169.360 | 5251.440 | ---        | ---     |

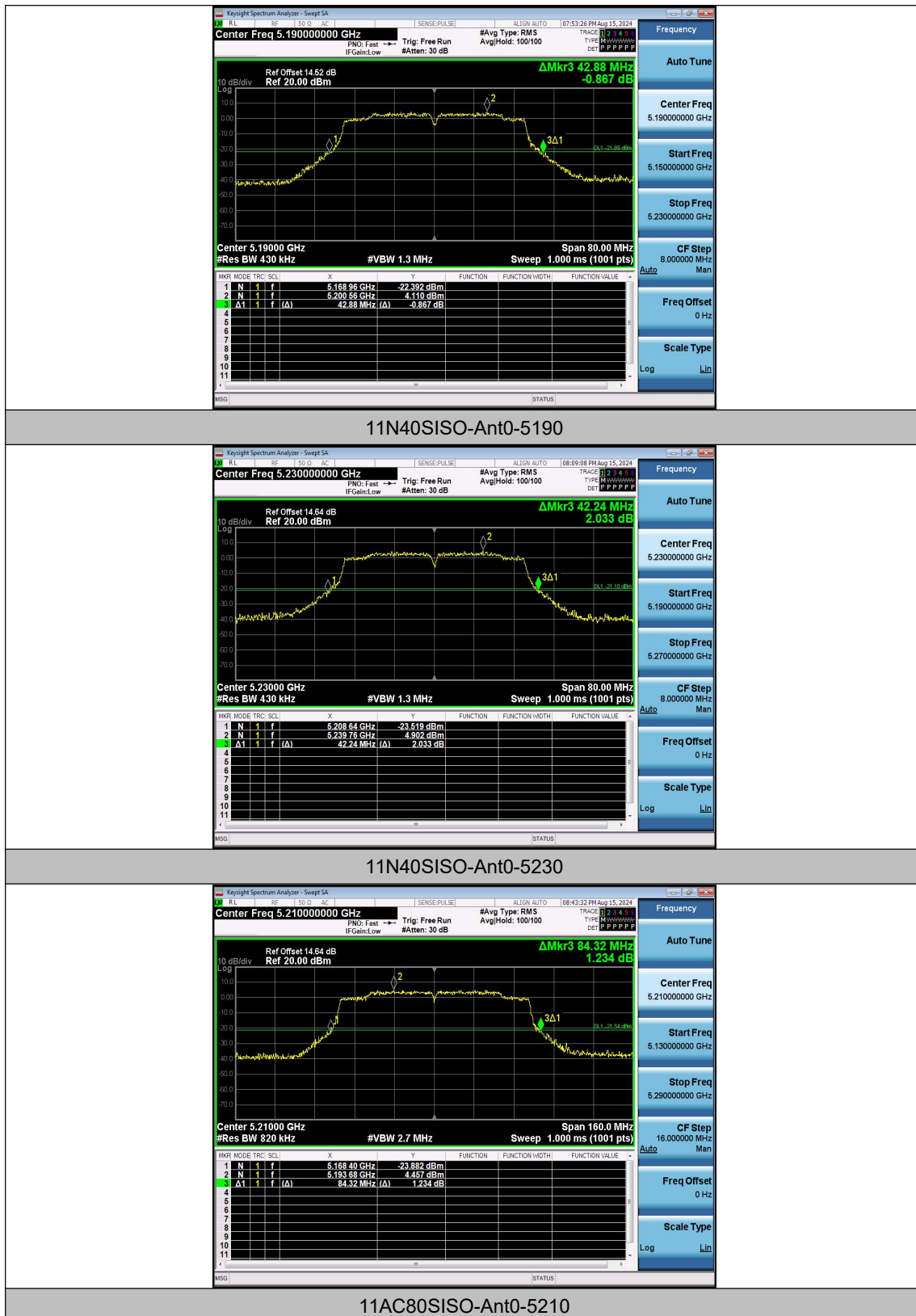
| TestMode   | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|------------|---------|----------------|-----------|-----------|-----------|------------|---------|
| 11A        | Ant0    | 5180           | 17.066    | 5171.5651 | 5188.6311 | ---        | ---     |
| 11A        | Ant0    | 5200           | 16.969    | 5191.5842 | 5208.5532 | ---        | ---     |
| 11A        | Ant0    | 5240           | 16.986    | 5231.5467 | 5248.5327 | ---        | ---     |
| 11N20SISO  | Ant0    | 5180           | 18.021    | 5171.0797 | 5189.1007 | ---        | ---     |
| 11N20SISO  | Ant0    | 5200           | 18.014    | 5191.0698 | 5209.0838 | ---        | ---     |
| 11N20SISO  | Ant0    | 5240           | 18.023    | 5231.0470 | 5249.0700 | ---        | ---     |
| 11N40SISO  | Ant0    | 5190           | 36.176    | 5172.0177 | 5208.1937 | ---        | ---     |
| 11N40SISO  | Ant0    | 5230           | 36.220    | 5211.9338 | 5248.1538 | ---        | ---     |
| 11AC80SISO | Ant0    | 5210           | 75.020    | 5172.6377 | 5247.6577 | ---        | ---     |
| 11AX20SISO | Ant0    | 5180           | 19.042    | 5170.5503 | 5189.5923 | ---        | ---     |
| 11AX20SISO | Ant0    | 5200           | 18.980    | 5190.5378 | 5209.5178 | ---        | ---     |
| 11AX20SISO | Ant0    | 5240           | 18.994    | 5230.5541 | 5249.5481 | ---        | ---     |
| 11AX40SISO | Ant0    | 5190           | 37.588    | 5171.2669 | 5208.8549 | ---        | ---     |
| 11AX40SISO | Ant0    | 5230           | 37.624    | 5211.2360 | 5248.8600 | ---        | ---     |
| 11AX80SISO | Ant0    | 5210           | 76.786    | 5171.8086 | 5248.5946 | ---        | ---     |

| TestMode   | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]   | FH[MHz]   | Limit[MHz] | Verdict |
|------------|---------|----------------|-----------|-----------|-----------|------------|---------|
| 11A        | Ant1    | 5180           | 17.040    | 5171.5597 | 5188.5997 | ---        | ---     |
| 11A        | Ant1    | 5200           | 17.024    | 5191.5405 | 5208.5645 | ---        | ---     |
| 11A        | Ant1    | 5240           | 17.004    | 5231.5374 | 5248.5414 | ---        | ---     |
| 11N20SISO  | Ant1    | 5180           | 18.018    | 5171.0550 | 5189.0730 | ---        | ---     |
| 11N20SISO  | Ant1    | 5200           | 18.021    | 5191.0590 | 5209.0800 | ---        | ---     |
| 11N20SISO  | Ant1    | 5240           | 18.022    | 5231.0367 | 5249.0587 | ---        | ---     |
| 11N40SISO  | Ant1    | 5190           | 36.163    | 5172.0213 | 5208.1843 | ---        | ---     |
| 11N40SISO  | Ant1    | 5230           | 36.204    | 5211.9671 | 5248.1711 | ---        | ---     |
| 11AC80SISO | Ant1    | 5210           | 75.090    | 5172.6326 | 5247.7226 | ---        | ---     |
| 11AX20SISO | Ant1    | 5180           | 19.016    | 5170.5394 | 5189.5554 | ---        | ---     |
| 11AX20SISO | Ant1    | 5200           | 18.986    | 5190.5624 | 5209.5484 | ---        | ---     |
| 11AX20SISO | Ant1    | 5240           | 19.002    | 5230.5397 | 5249.5417 | ---        | ---     |
| 11AX40SISO | Ant1    | 5190           | 37.578    | 5171.3161 | 5208.8941 | ---        | ---     |
| 11AX40SISO | Ant1    | 5230           | 37.593    | 5211.2683 | 5248.8613 | ---        | ---     |
| 11AX80SISO | Ant1    | 5210           | 76.856    | 5171.6977 | 5248.5537 | ---        | ---     |

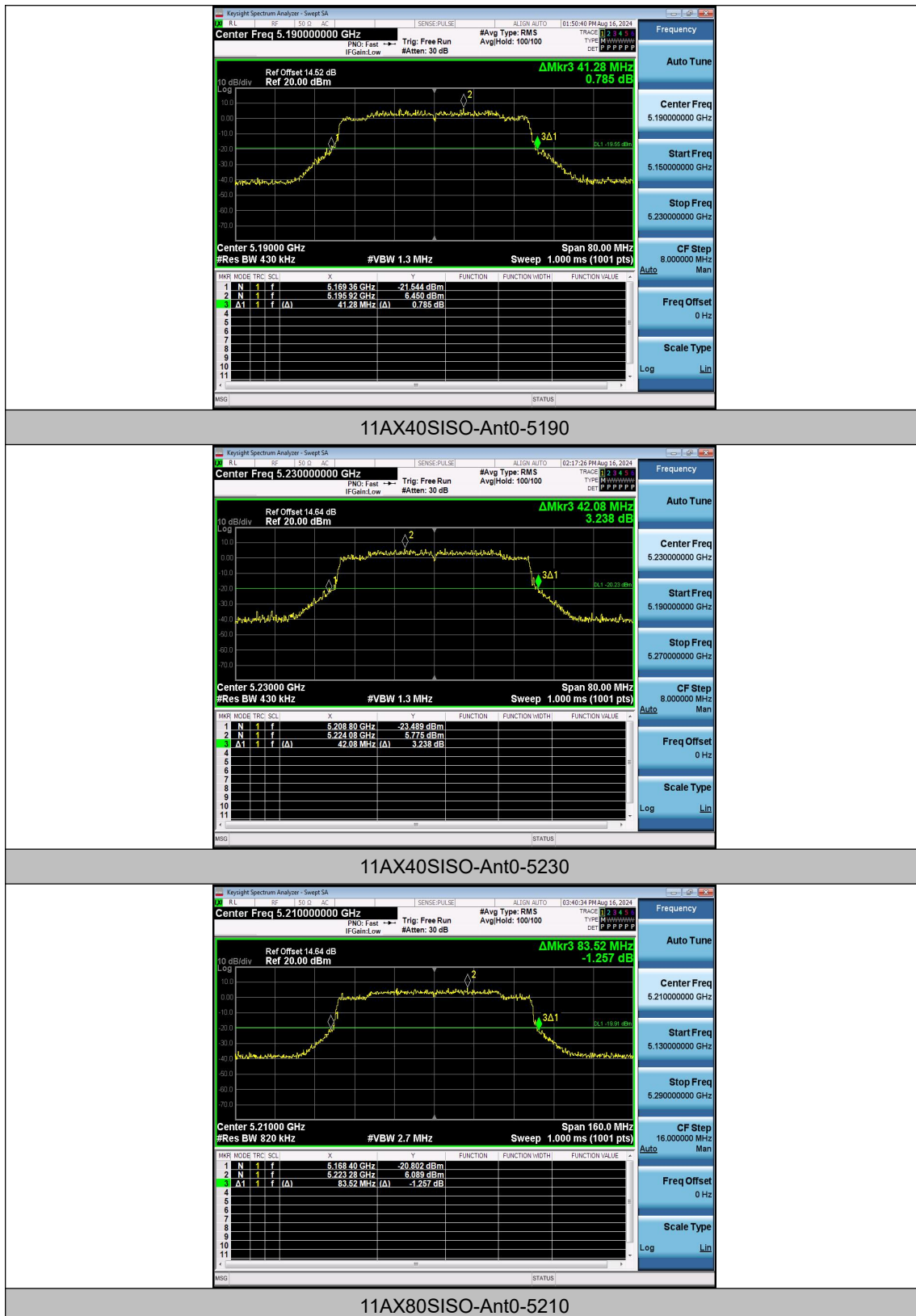
## Test Graphs Emission Bandwidth





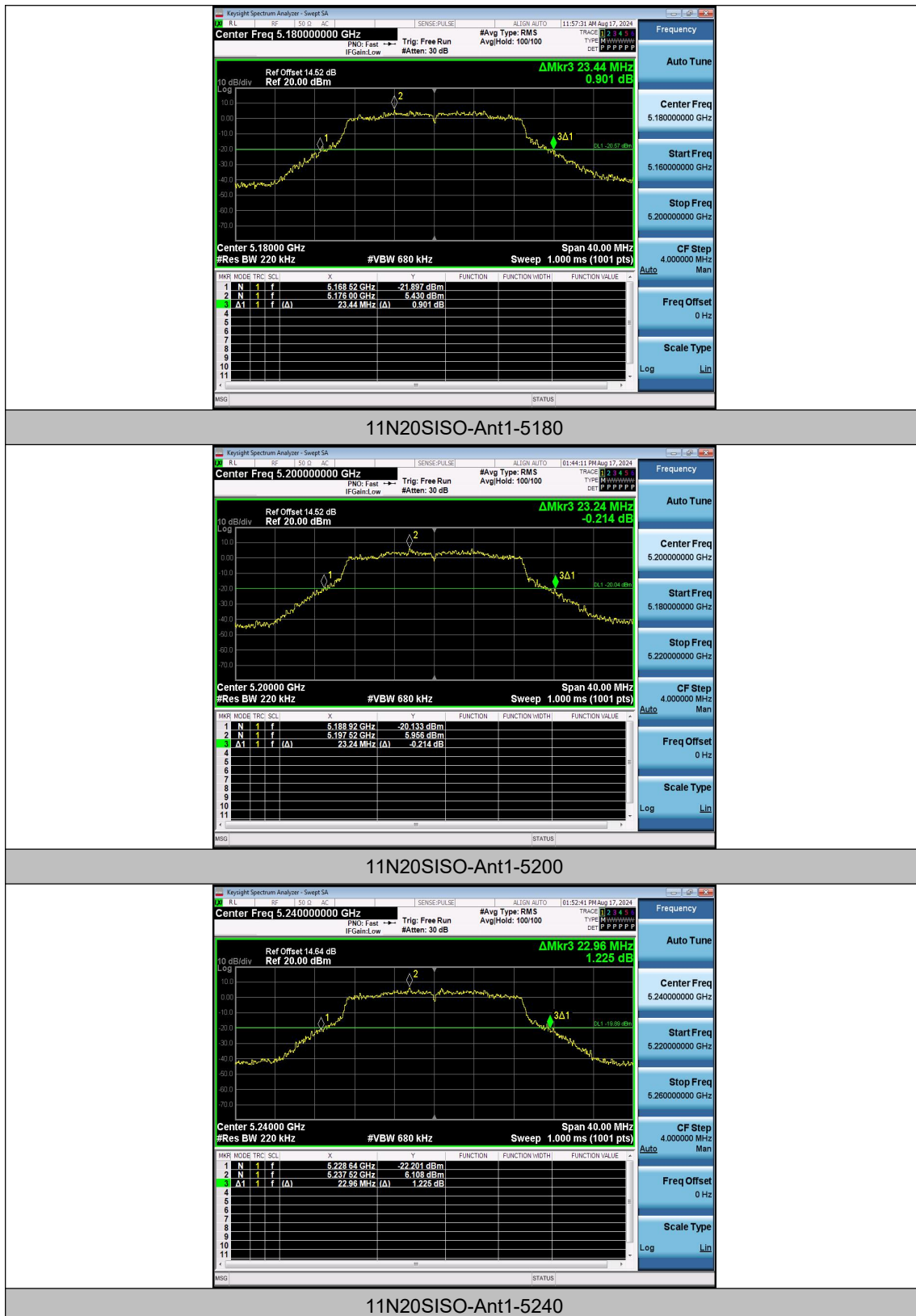


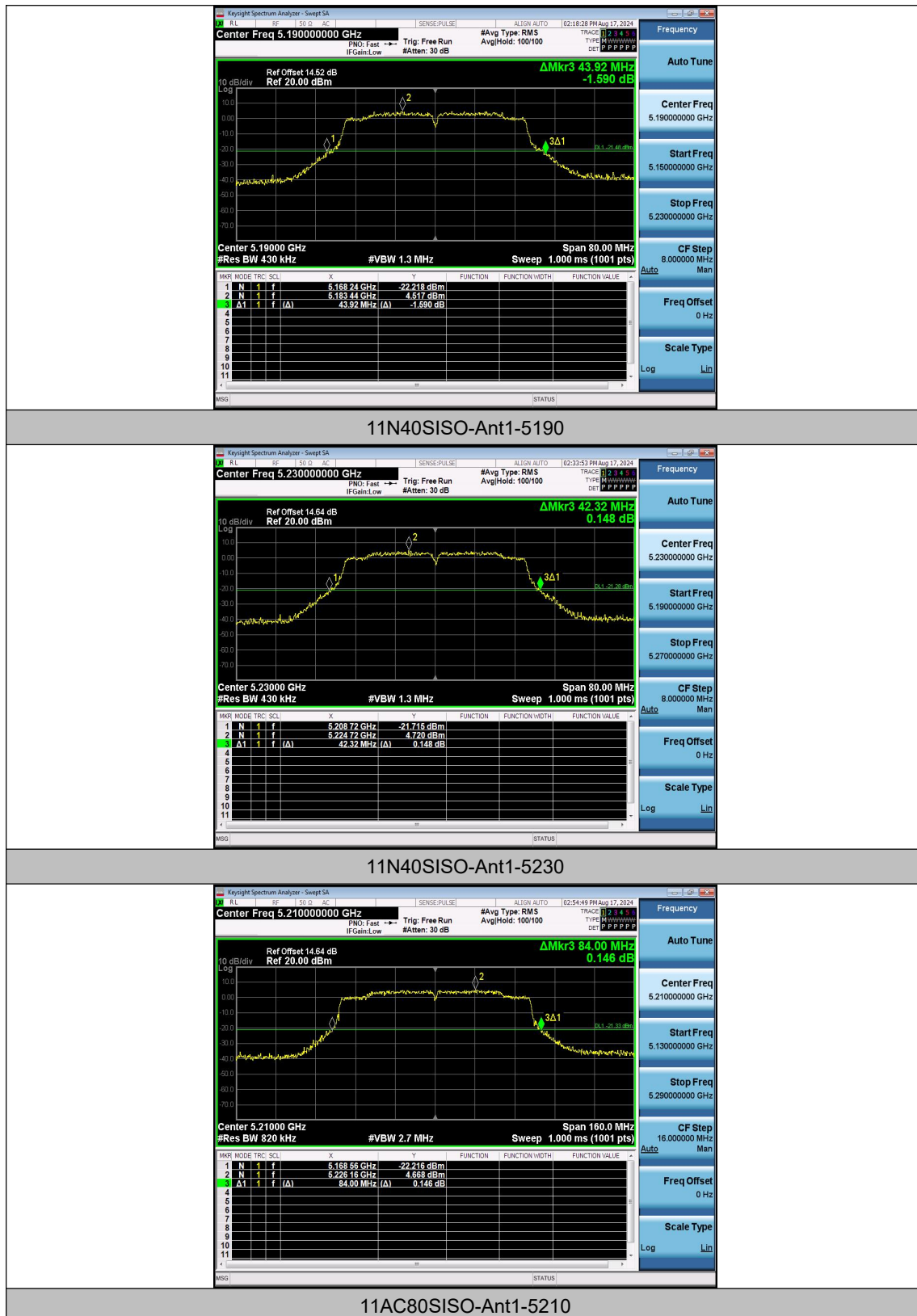


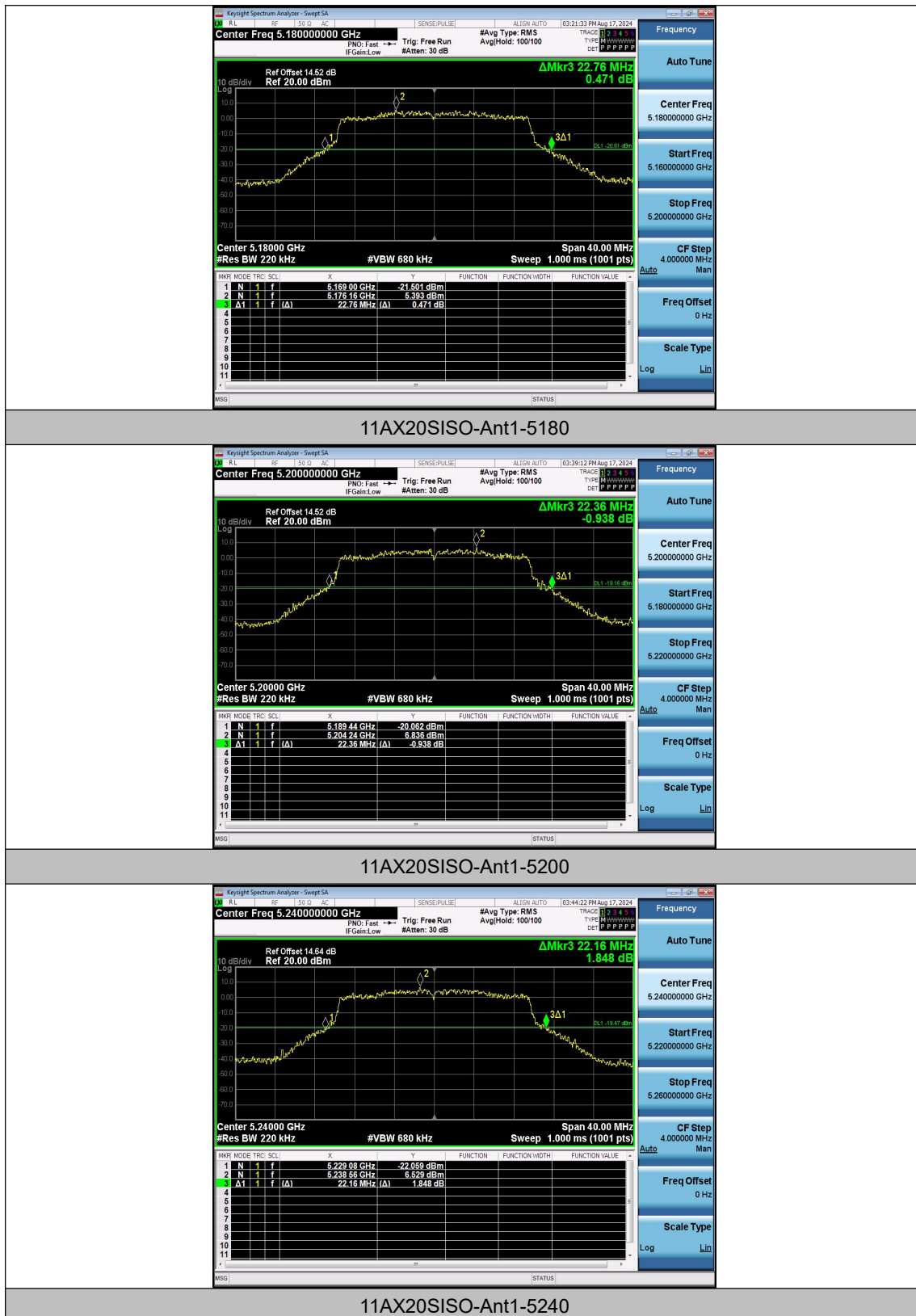


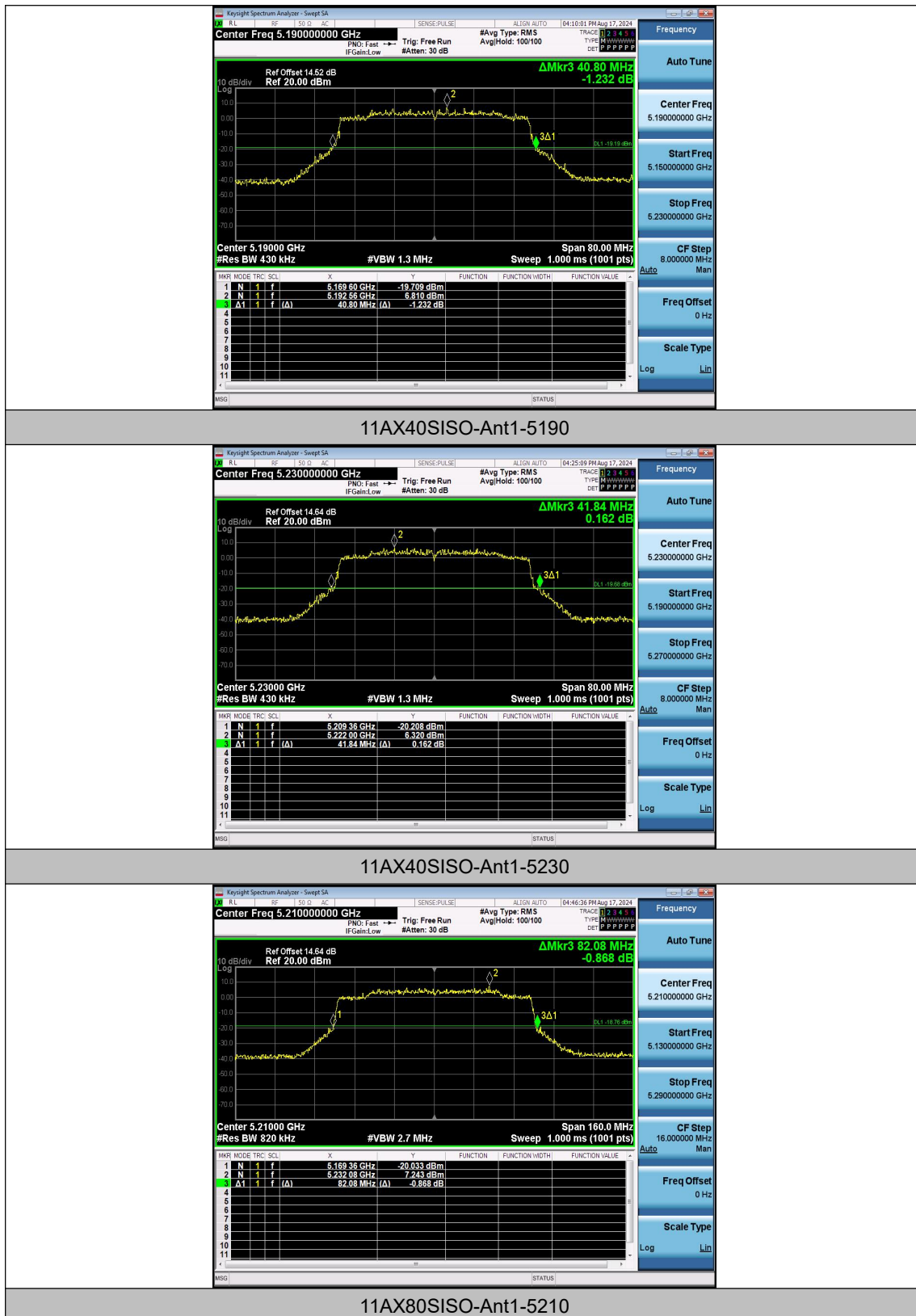












Test Graphs Occupied Bandwidth

