

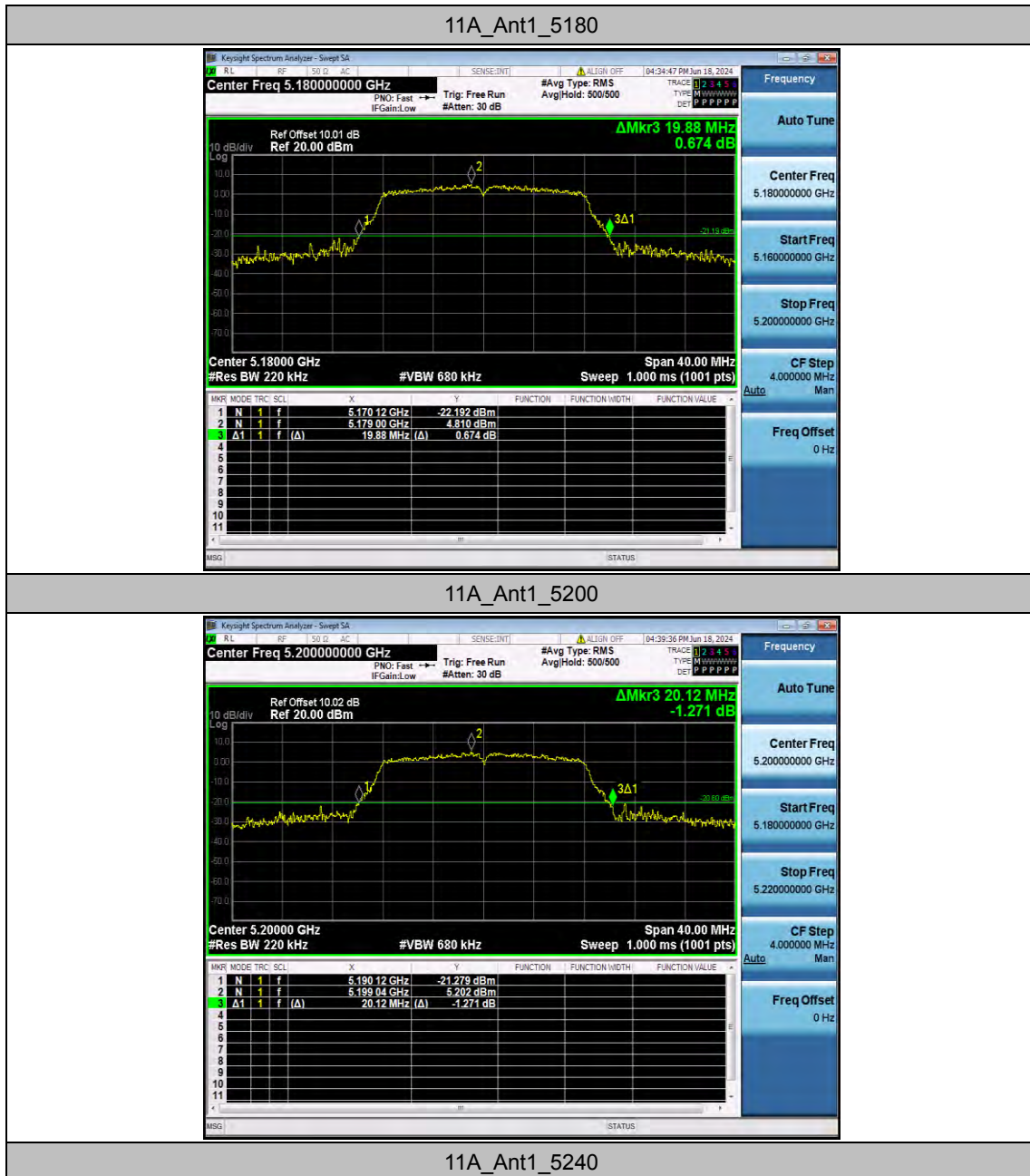
|                                                       |                                          |
|-------------------------------------------------------|------------------------------------------|
| <b>Case No. :</b> <u>CTA24061300304</u>               |                                          |
| <b>Ambient Condition:</b> <u>23</u> °C, <u>49</u> %RH |                                          |
| <b>According Standard:</b> ■Part15E                   |                                          |
| <b>Test Date:</b> <u>2024.6.15</u>                    | <b>Test Engineer:</b> <u>Evan ouyang</u> |

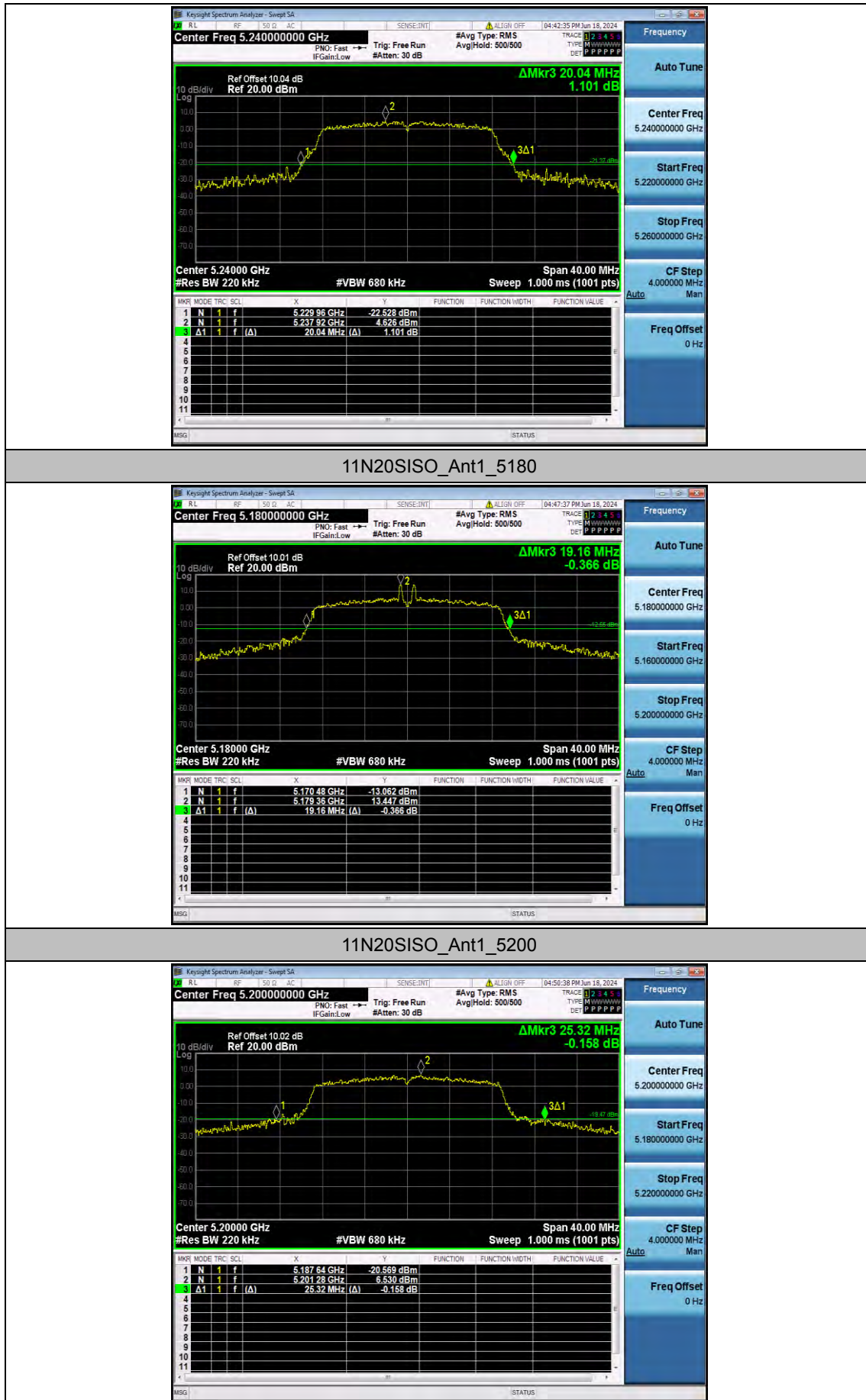
## Appendix D.1: Emission Bandwidth

### Test Result

| TestMode   | Antenna | Freq(MHz) | 26db EBW [MHz] | FL[MHz]  | FH[MHz]  |
|------------|---------|-----------|----------------|----------|----------|
| 11A        | Ant1    | 5180      | 19.880         | 5170.120 | 5190.000 |
|            |         | 5200      | 20.120         | 5190.120 | 5210.240 |
|            |         | 5240      | 20.040         | 5229.960 | 5250.000 |
| 11N20SISO  | Ant1    | 5180      | 19.160         | 5170.480 | 5189.640 |
|            |         | 5200      | 25.320         | 5187.640 | 5212.960 |
|            |         | 5240      | 24.080         | 5227.280 | 5251.360 |
| 11N40SISO  | Ant1    | 5190      | 40.080         | 5169.920 | 5210.000 |
|            |         | 5230      | 40.320         | 5209.840 | 5250.160 |
| 11AC20SISO | Ant1    | 5180      | 20.320         | 5169.880 | 5190.200 |
|            |         | 5200      | 20.160         | 5189.960 | 5210.120 |
|            |         | 5240      | 20.120         | 5229.920 | 5250.040 |
| 11AC40SISO | Ant1    | 5190      | 40.400         | 5169.920 | 5210.320 |
|            |         | 5230      | 40.240         | 5210.000 | 5250.240 |
| 11AC80SISO | Ant1    | 5210      | 80.960         | 5169.680 | 5250.640 |

## Test Graphs

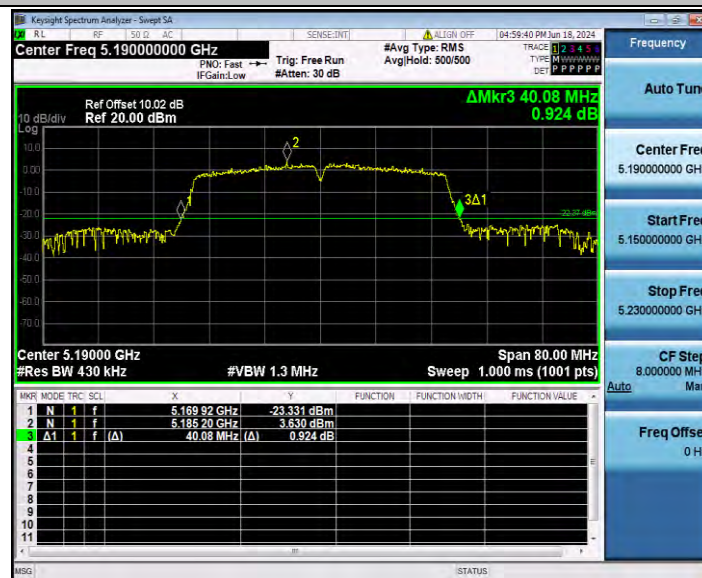




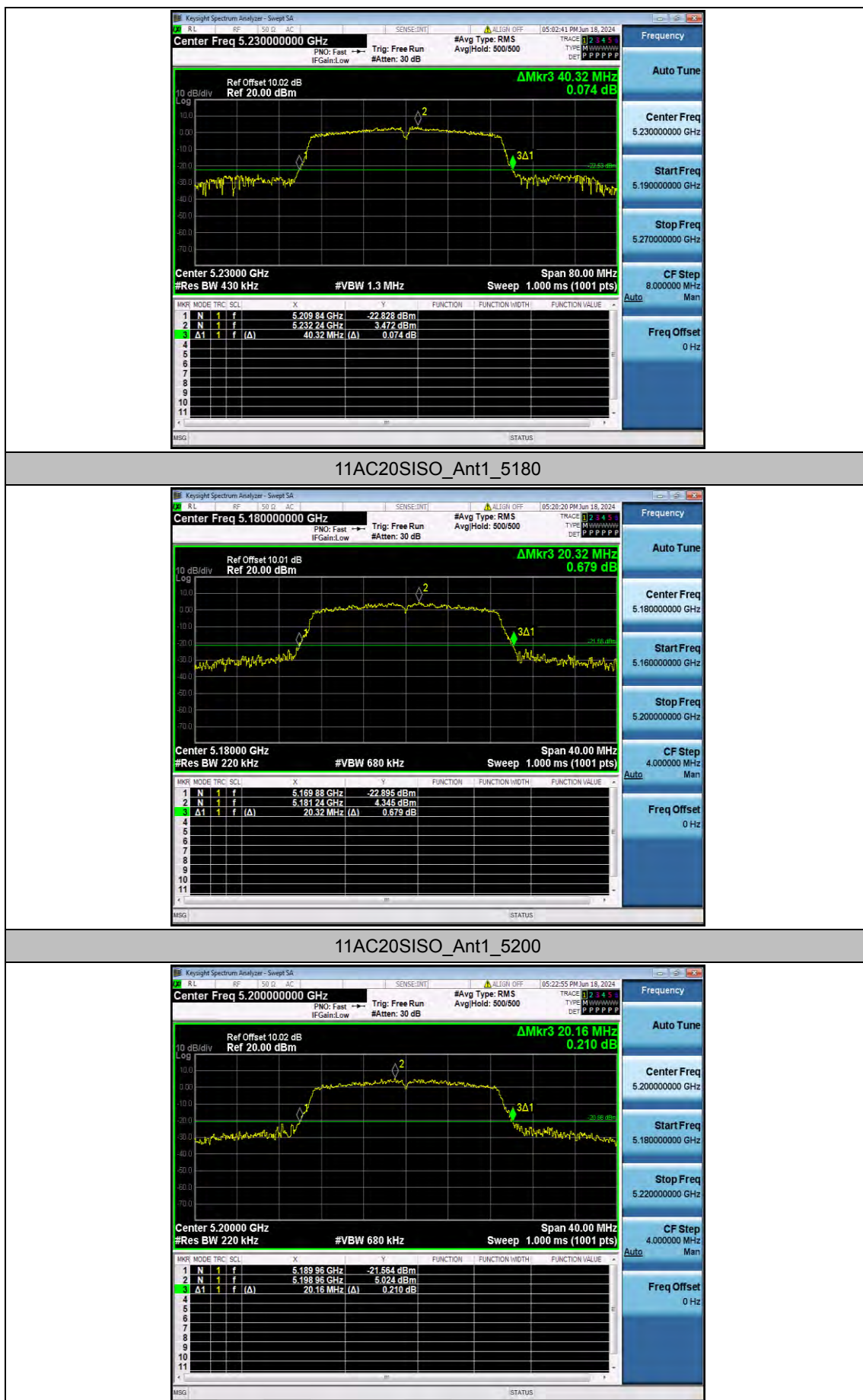
## 11N20SISO\_Ant1\_5240



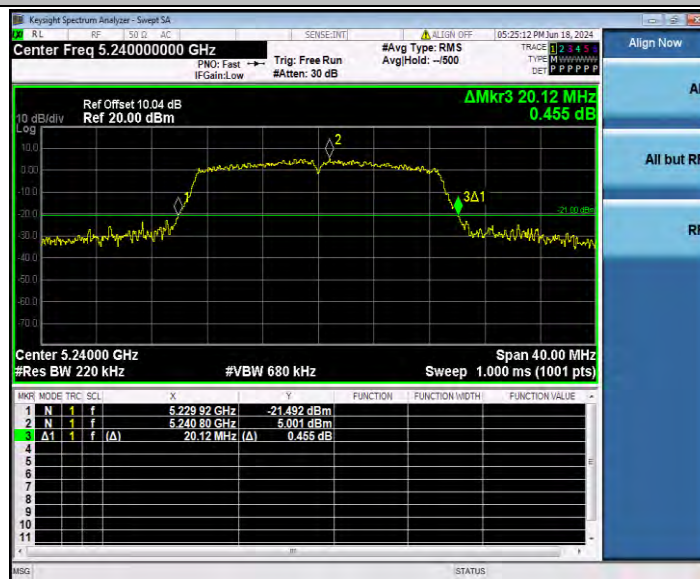
## 11N40SISO\_Ant1\_5190



## 11N40SISO\_Ant1\_5230



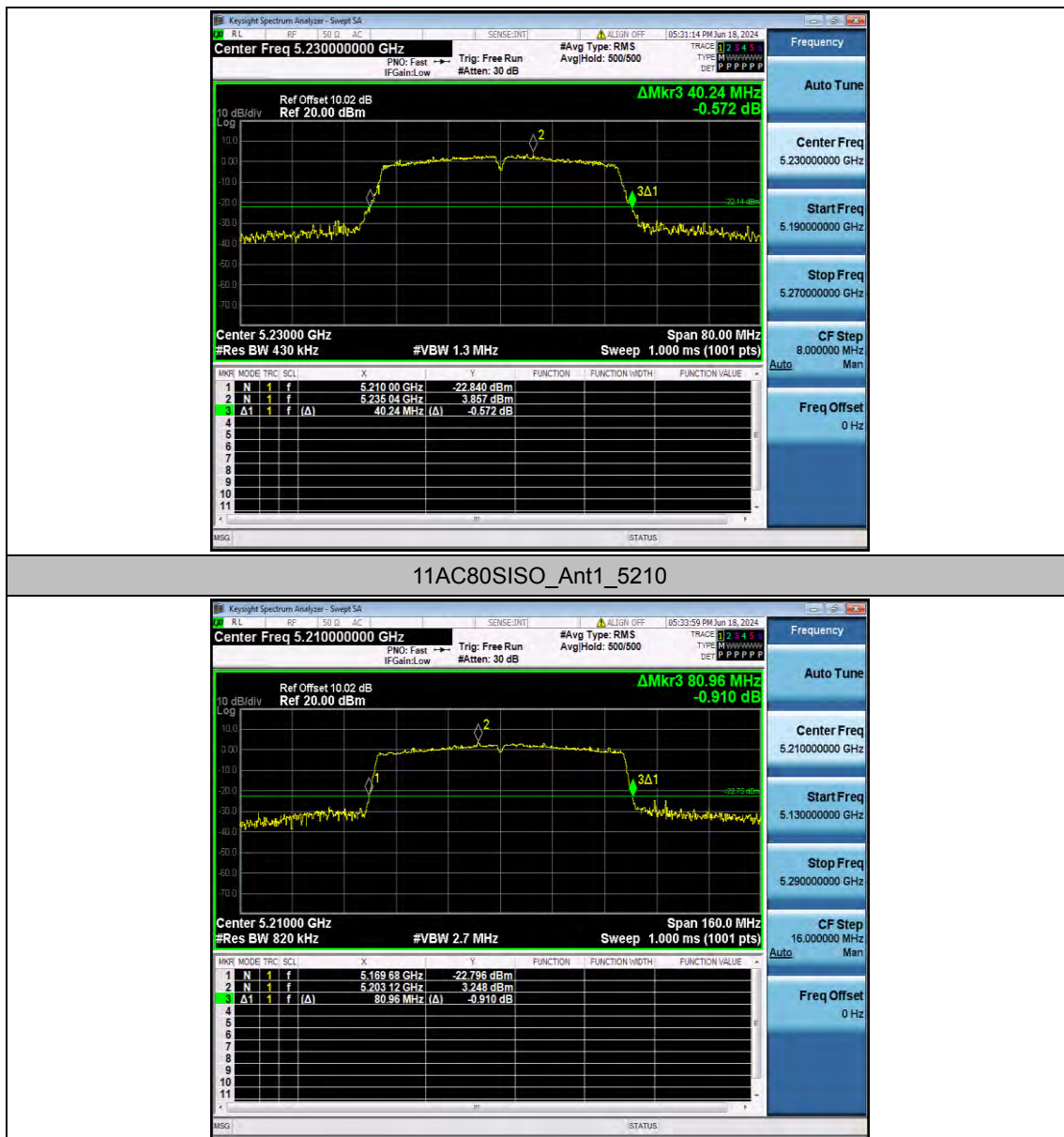
## 11AC20SISO\_Ant1\_5240



## 11AC40SISO\_Ant1\_5190



## 11AC40SISO\_Ant1\_5230

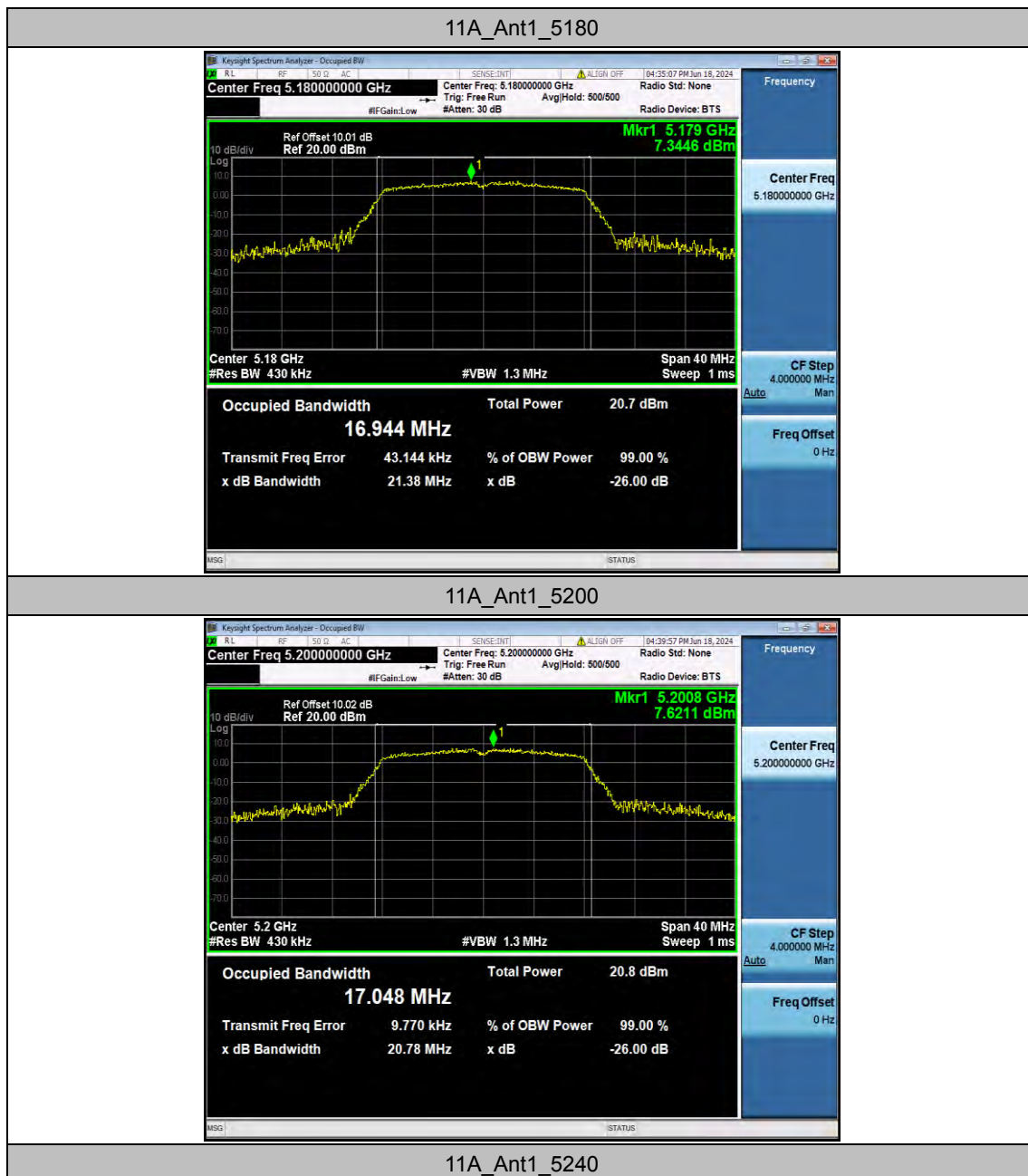


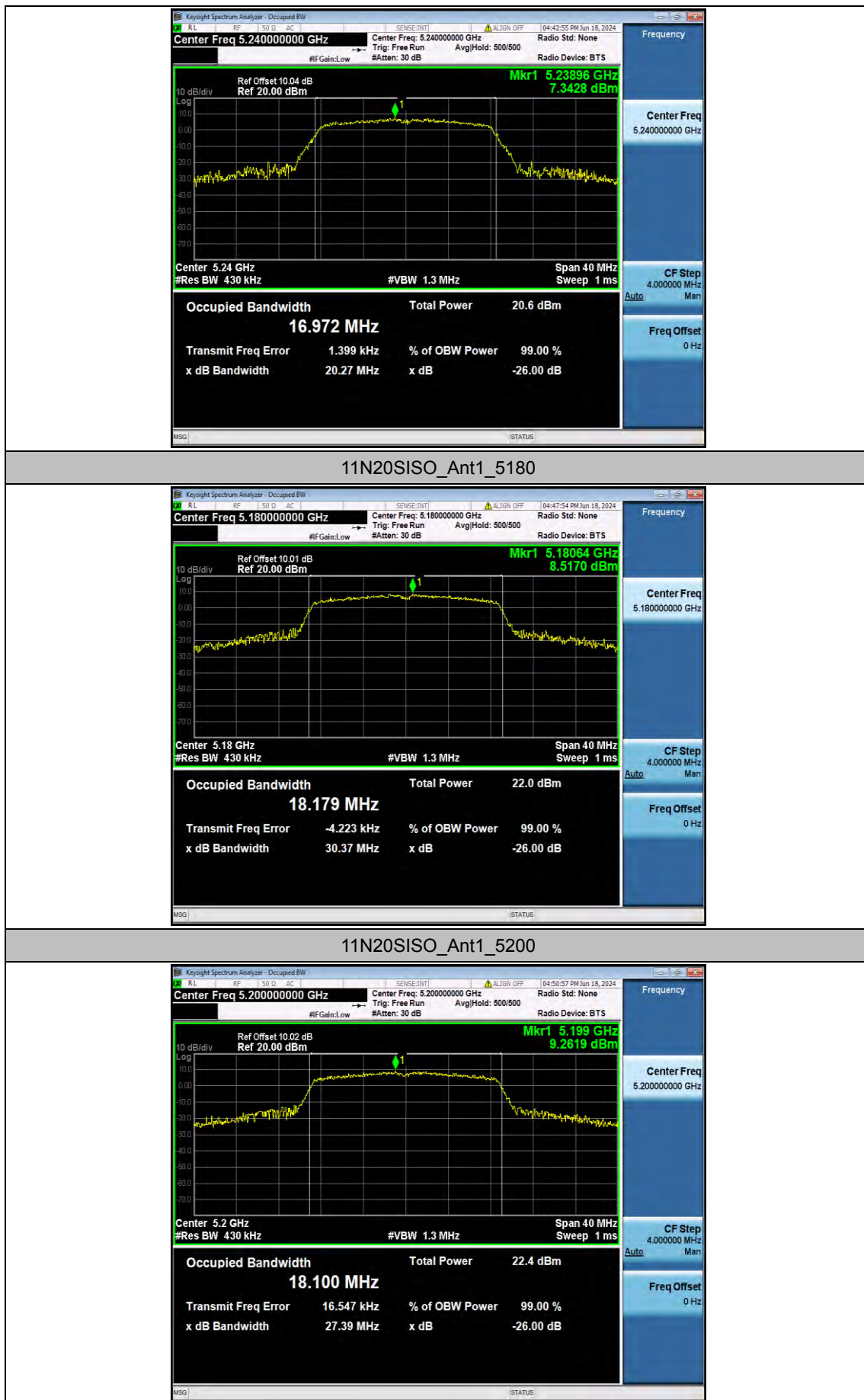
## Appendix D.2: Occupied channel bandwidth

### Test Result

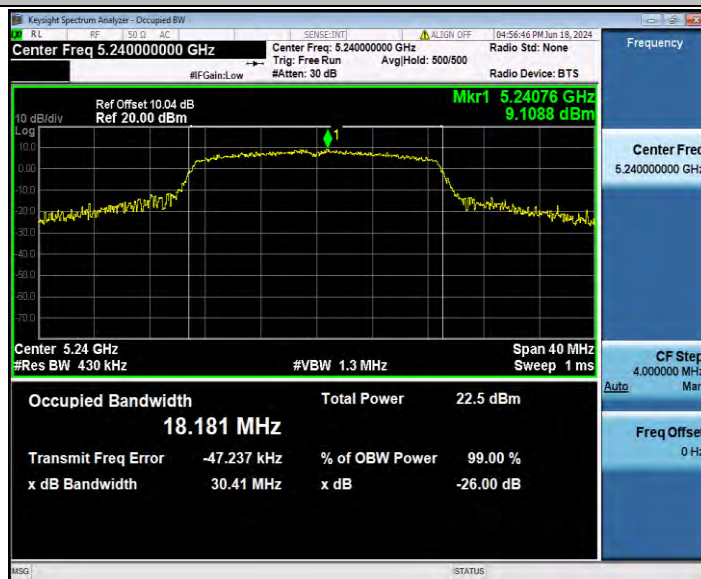
| TestMode   | Antenna | Freq(MHz) | OCB [MHz] | FL[MHz]   | FH[MHz]   |
|------------|---------|-----------|-----------|-----------|-----------|
| 11A        | Ant1    | 5180      | 16.944    | 5171.5711 | 5188.5151 |
|            |         | 5200      | 17.048    | 5191.4858 | 5208.5338 |
|            |         | 5240      | 16.972    | 5231.5154 | 5248.4874 |
| 11N20SISO  | Ant1    | 5180      | 18.179    | 5170.9063 | 5189.0853 |
|            |         | 5200      | 18.100    | 5190.9666 | 5209.0666 |
|            |         | 5240      | 18.181    | 5230.8623 | 5249.0433 |
| 11N40SISO  | Ant1    | 5190      | 36.416    | 5171.8594 | 5208.2754 |
|            |         | 5230      | 36.362    | 5211.8268 | 5248.1888 |
| 11AC20SISO | Ant1    | 5180      | 17.881    | 5171.0731 | 5188.9541 |
|            |         | 5200      | 17.923    | 5191.0578 | 5208.9808 |
|            |         | 5240      | 17.896    | 5231.0652 | 5248.9612 |
| 11AC40SISO | Ant1    | 5190      | 36.282    | 5171.9467 | 5208.2287 |
|            |         | 5230      | 36.332    | 5211.8483 | 5248.1803 |
| 11AC80SISO | Ant1    | 5210      | 75.176    | 5172.5418 | 5247.7178 |

## Test Graphs

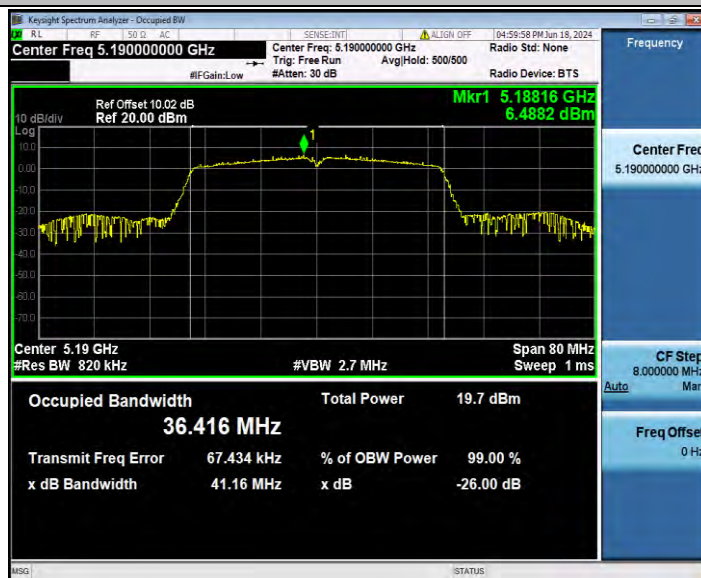




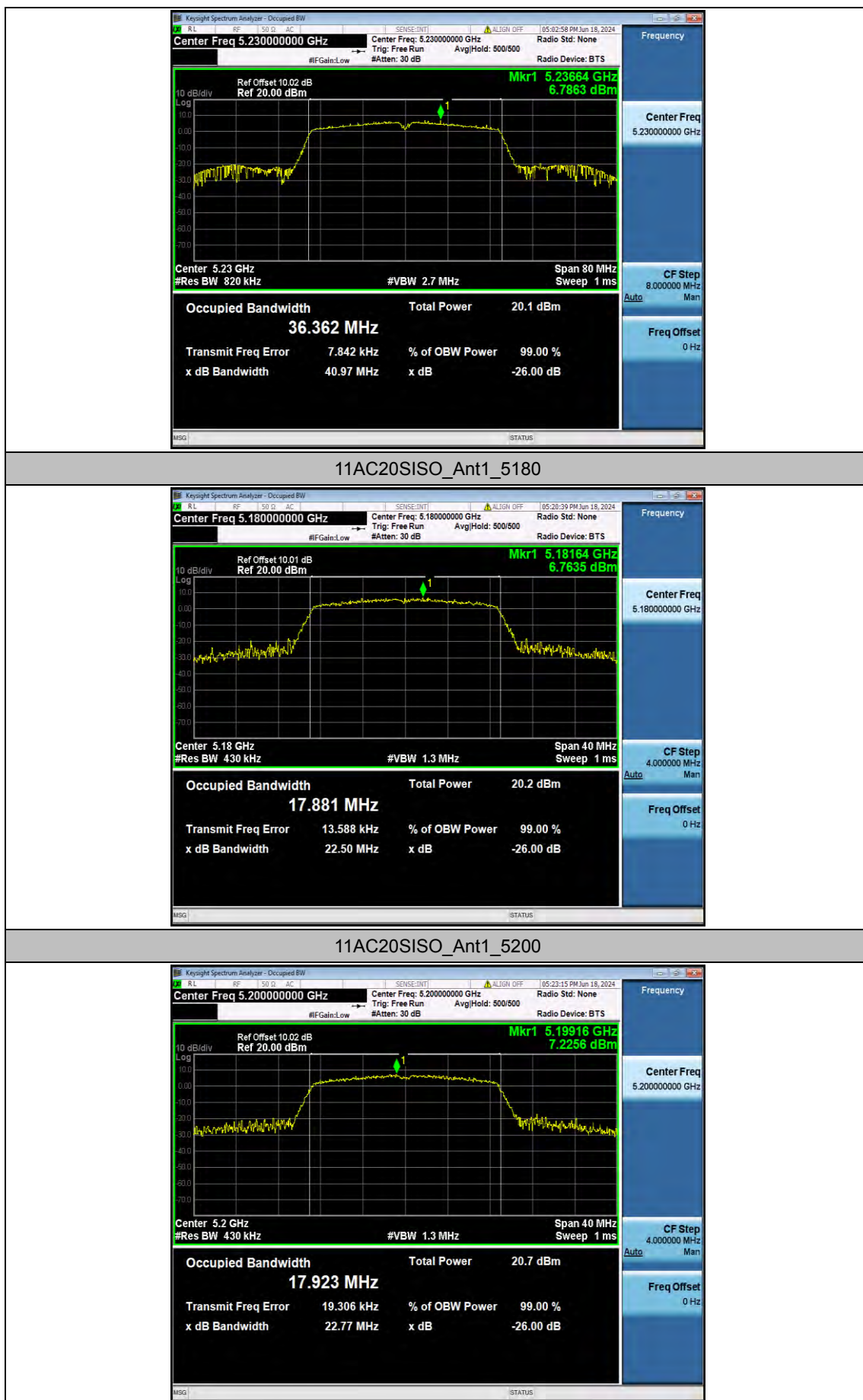
## 11N20SISO\_Ant1\_5240



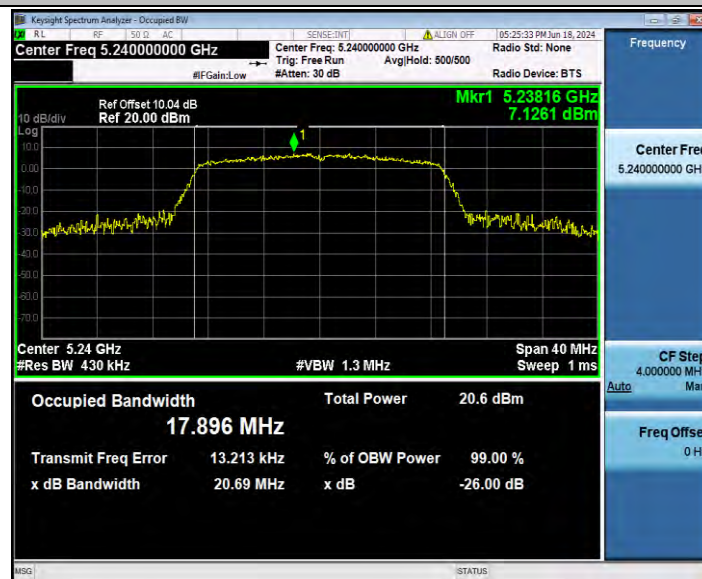
## 11N40SISO\_Ant1\_5190



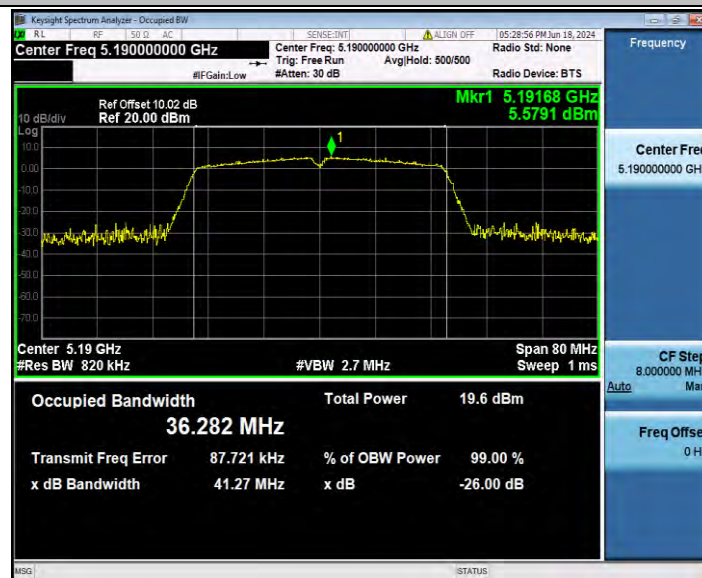
## 11N40SISO\_Ant1\_5230



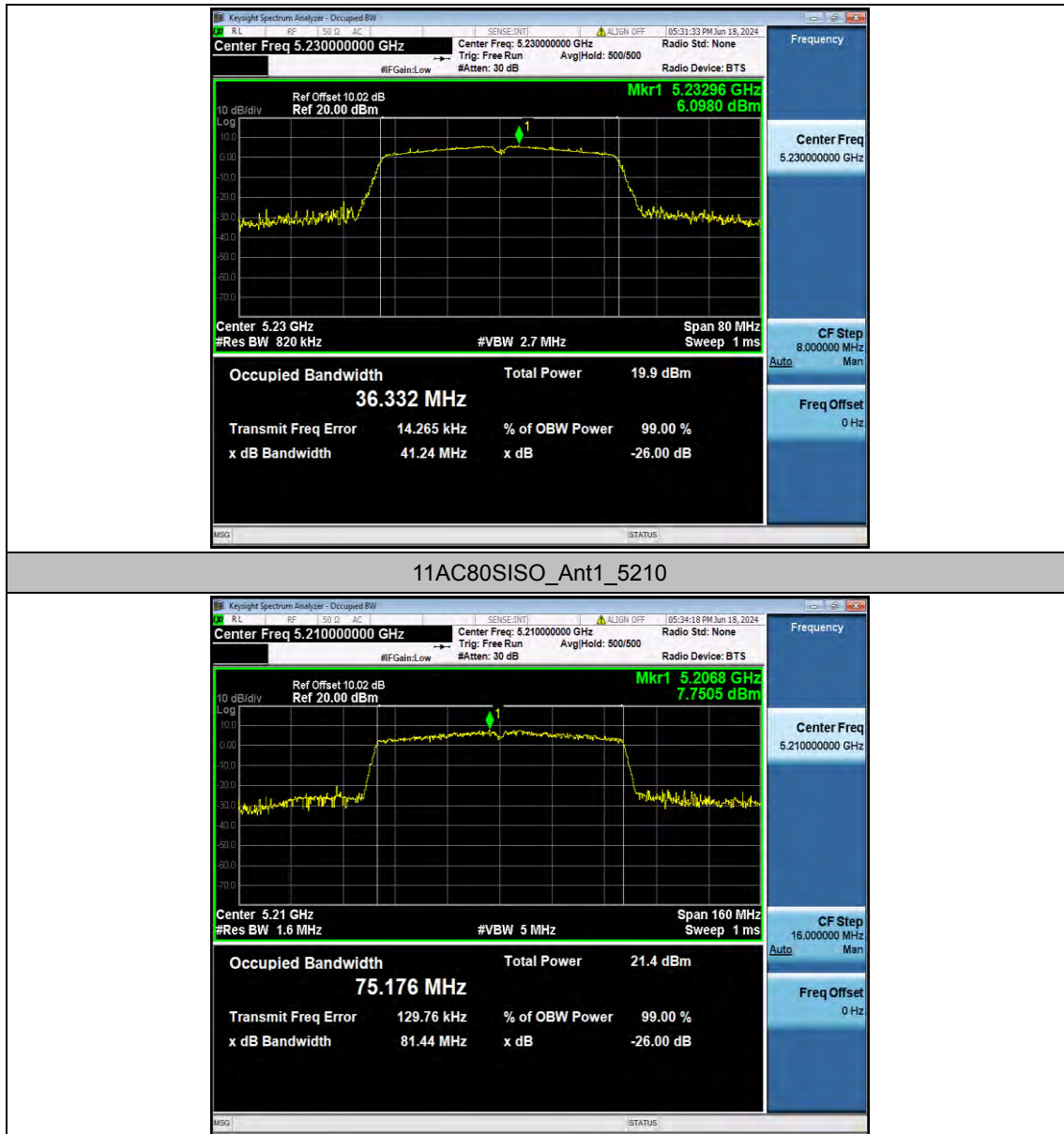
## 11AC20SISO\_Ant1\_5240



## 11AC40SISO\_Ant1\_5190



## 11AC40SISO\_Ant1\_5230

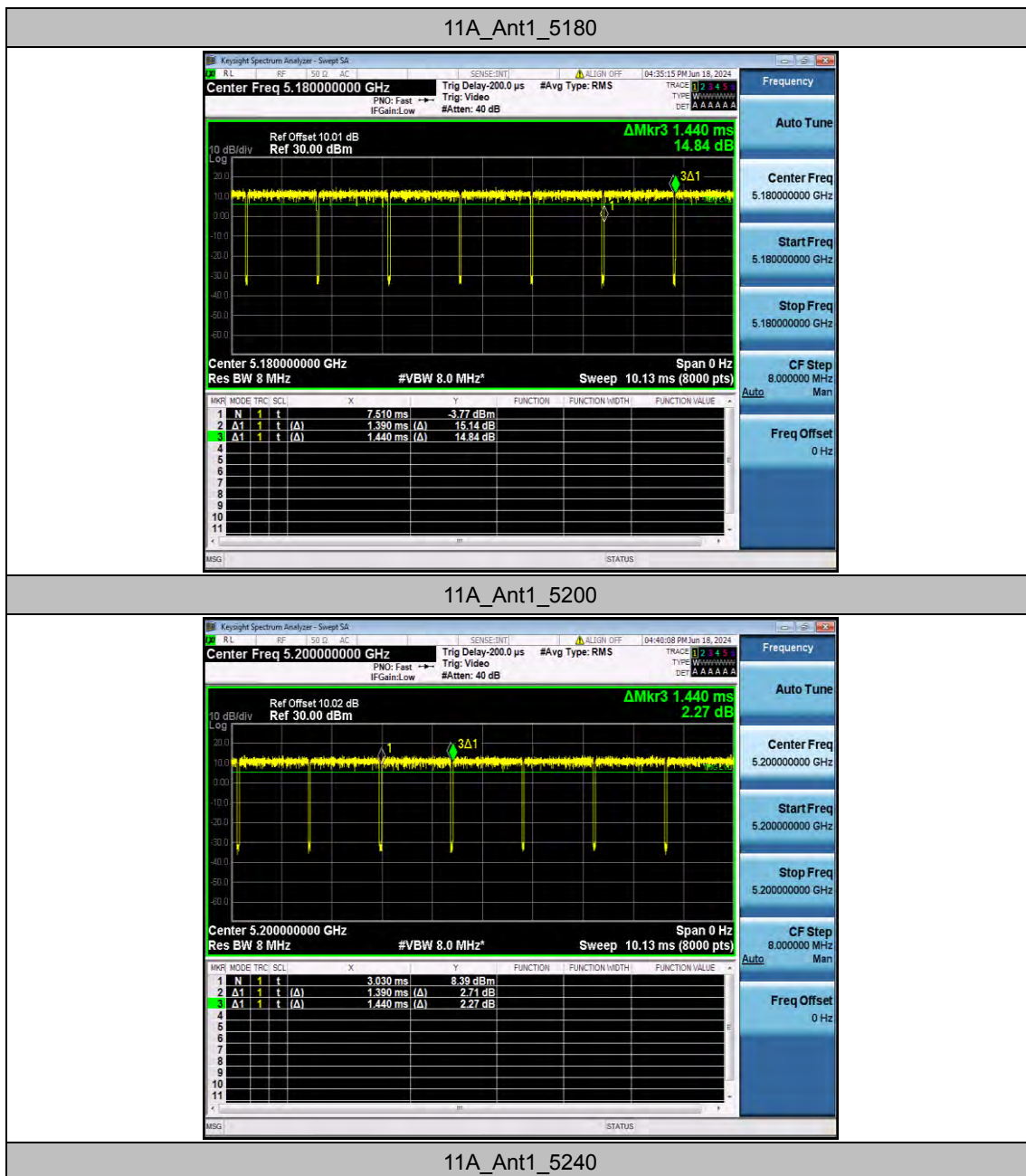


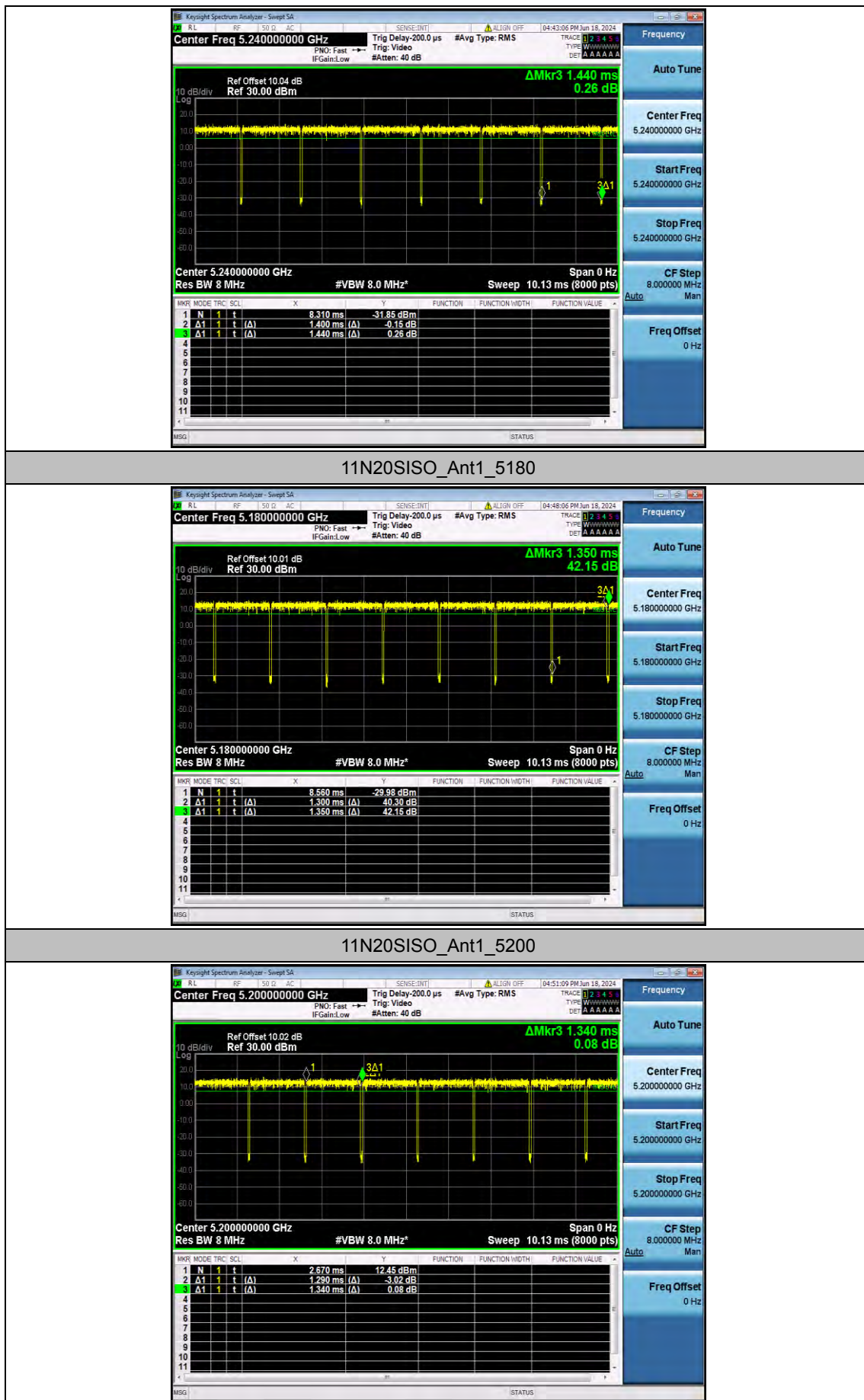
## Appendix D.3: Duty Cycle

### Test Result

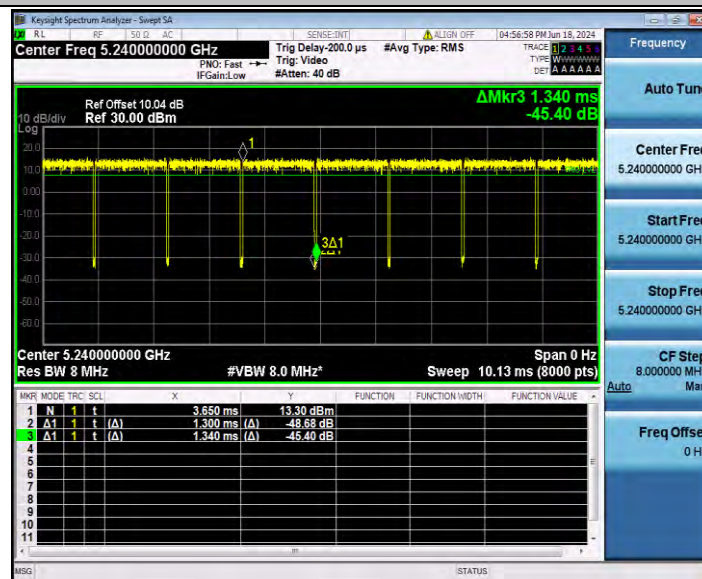
| TestMode   | Antenna | Freq(MHz) | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] | Duty Cycle Factor[dB] | 1/T Factor[KHz] |
|------------|---------|-----------|----------------------------|--------------------------|----------------|-----------------------|-----------------|
| 11A        | Ant1    | 5180      | 1.39                       | 1.44                     | 96.53          | 0.15                  | 0.72            |
|            |         | 5200      | 1.39                       | 1.44                     | 96.53          | 0.15                  | 0.72            |
|            |         | 5240      | 1.40                       | 1.44                     | 97.22          | 0.12                  | 0.71            |
| 11N20SISO  | Ant1    | 5180      | 1.30                       | 1.35                     | 96.30          | 0.16                  | 0.77            |
|            |         | 5200      | 1.29                       | 1.34                     | 96.27          | 0.17                  | 0.78            |
|            |         | 5240      | 1.30                       | 1.34                     | 97.01          | 0.13                  | 0.77            |
| 11N40SISO  | Ant1    | 5190      | 0.65                       | 0.69                     | 94.20          | 0.26                  | 1.54            |
|            |         | 5230      | 0.64                       | 0.69                     | 92.75          | 0.33                  | 1.56            |
| 11AC20SISO | Ant1    | 5180      | 1.31                       | 1.35                     | 97.04          | 0.13                  | 0.76            |
|            |         | 5200      | 1.31                       | 1.36                     | 96.32          | 0.16                  | 0.76            |
|            |         | 5240      | 1.31                       | 1.35                     | 97.04          | 0.13                  | 0.76            |
| 11AC40SISO | Ant1    | 5190      | 0.65                       | 0.70                     | 92.86          | 0.32                  | 1.54            |
|            |         | 5230      | 0.65                       | 0.69                     | 94.20          | 0.26                  | 1.54            |
| 11AC80SISO | Ant1    | 5210      | 0.32                       | 0.37                     | 86.49          | 0.63                  | 3.13            |

## Test Graphs

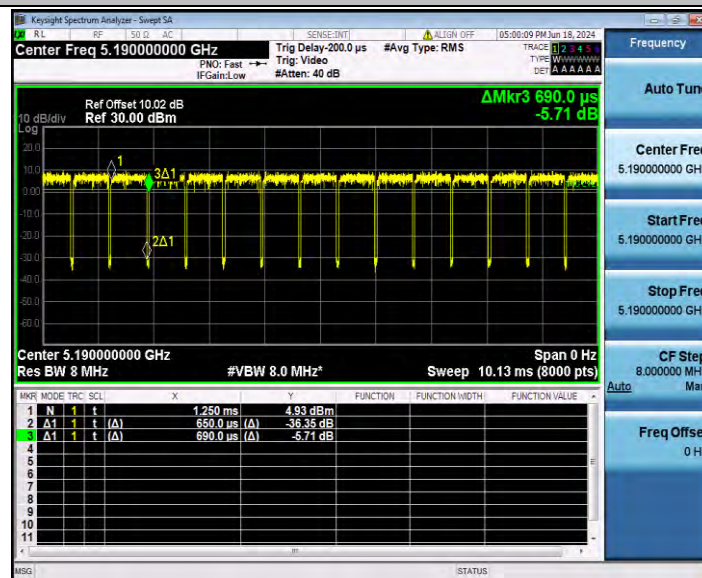




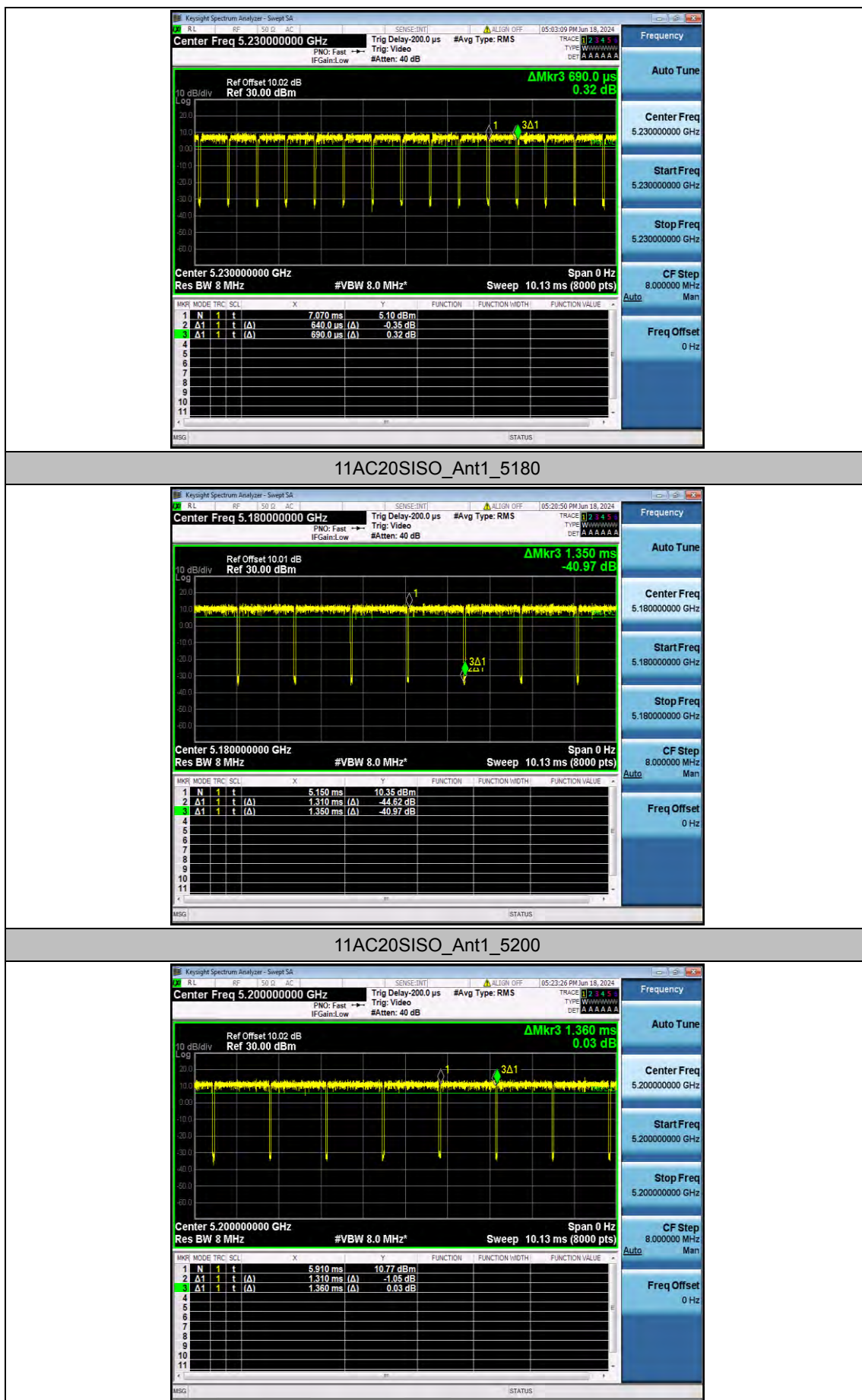
## 11N20SISO\_Ant1\_5240



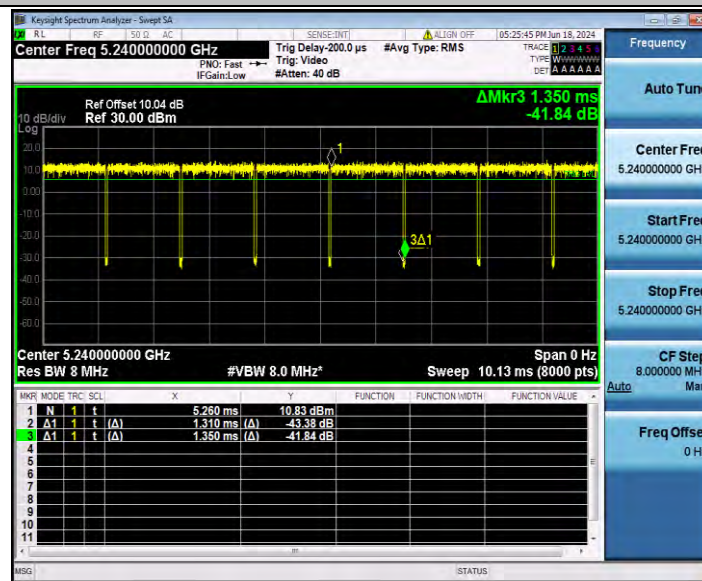
## 11N40SISO\_Ant1\_5190



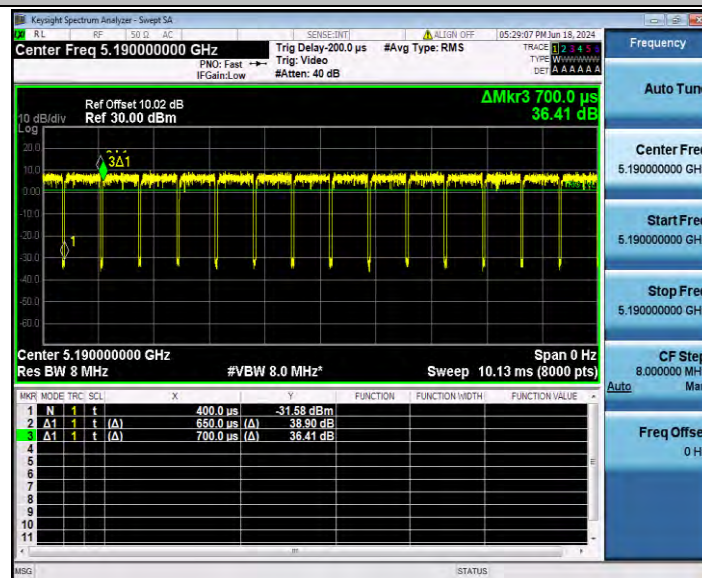
## 11N40SISO\_Ant1\_5230



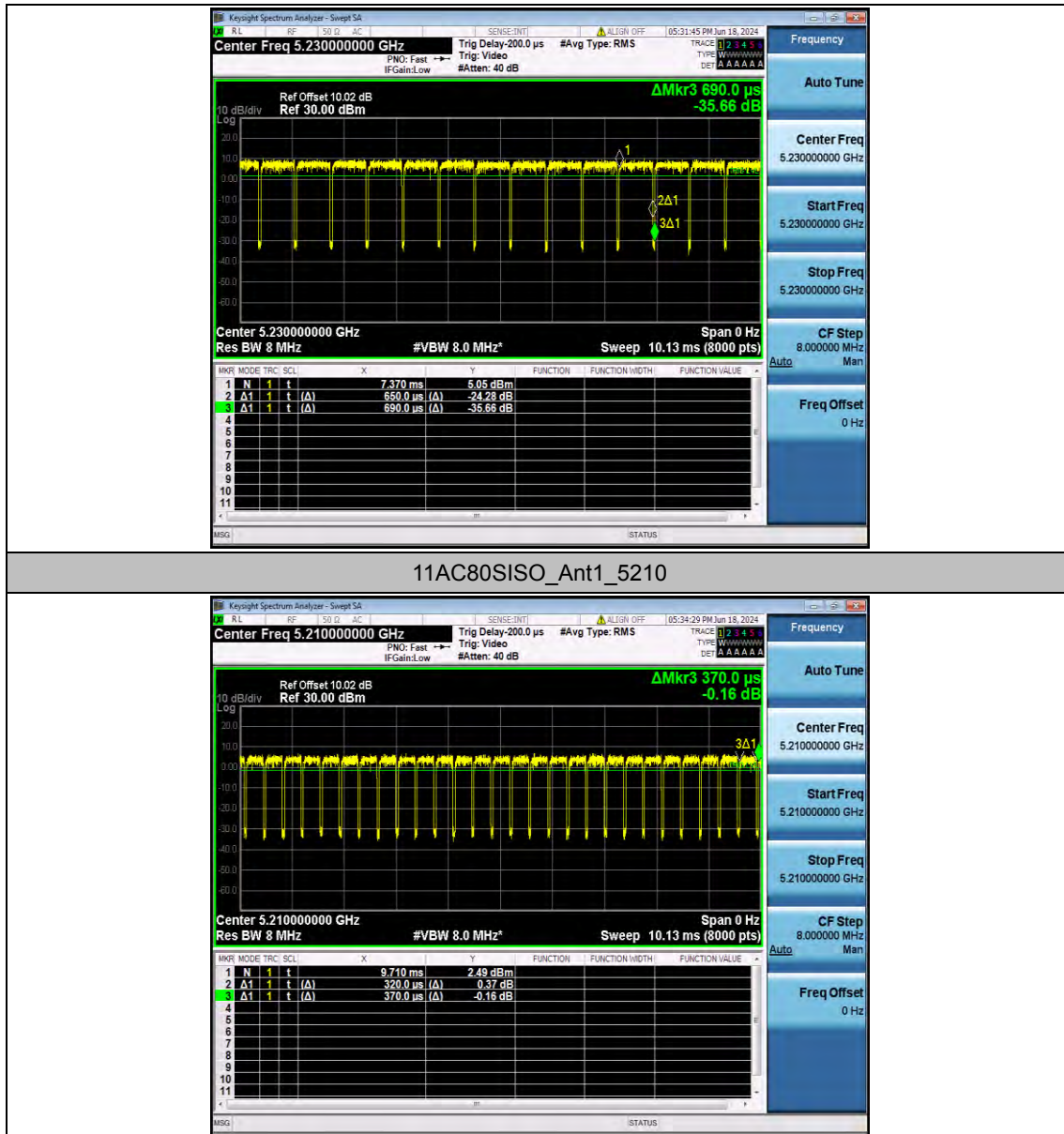
## 11AC20SISO\_Ant1\_5240



## 11AC40SISO\_Ant1\_5190



## 11AC40SISO\_Ant1\_5230



## Appendix D.4: Maximum conducted output power

### Test Result Channel Power

| Test Mode  | Antenna | Freq(MHz) | Channel Power [dBm] | Duty Cycle [%] | DC Factor [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|------------|---------|-----------|---------------------|----------------|-----------------|--------------|-------------|---------|
| 11A        | Ant1    | 5180      | 13.80               | 96.53          | 0.15            | 13.95        | ≤23.98      | PASS    |
|            |         | 5200      | 13.58               | 96.53          | 0.15            | 13.73        | ≤23.98      | PASS    |
|            |         | 5240      | 13.65               | 97.22          | 0.12            | 13.77        | ≤23.98      | PASS    |
| 11N20SISO  | Ant1    | 5180      | 15.11               | 96.30          | 0.16            | 15.27        | ≤23.98      | PASS    |
|            |         | 5200      | 15.45               | 96.27          | 0.17            | 15.62        | ≤23.98      | PASS    |
|            |         | 5240      | 15.53               | 97.01          | 0.13            | 15.66        | ≤23.98      | PASS    |
| 11N40SISO  | Ant1    | 5190      | 12.05               | 94.20          | 0.26            | 12.31        | ≤23.98      | PASS    |
|            |         | 5230      | 12.45               | 92.75          | 0.33            | 12.78        | ≤23.98      | PASS    |
| 11AC20SISO | Ant1    | 5180      | 13.30               | 97.04          | 0.13            | 13.43        | ≤23.98      | PASS    |
|            |         | 5200      | 13.78               | 96.32          | 0.16            | 13.94        | ≤23.98      | PASS    |
|            |         | 5240      | 13.71               | 97.04          | 0.13            | 13.84        | ≤23.98      | PASS    |
| 11AC40SISO | Ant1    | 5190      | 11.96               | 92.86          | 0.32            | 12.28        | ≤23.98      | PASS    |
|            |         | 5230      | 12.27               | 94.20          | 0.26            | 12.53        | ≤23.98      | PASS    |
| 11AC80SISO | Ant1    | 5210      | 11.84               | 86.49          | 0.63            | 12.47        | ≤23.98      | PASS    |

Note:

1. The Duty Cycle Factor is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the data.

## Appendix D.5: Maximum power spectral density

### Test Result

| TestMode   | Antenna | Freq(MHz) | Result [dBm/MHz] | Limit[dBm/MHz] | Verdict |
|------------|---------|-----------|------------------|----------------|---------|
| 11A        | Ant1    | 5180      | 3.27             | ≤11.00         | PASS    |
|            |         | 5200      | 3.17             | ≤11.00         | PASS    |
|            |         | 5240      | 3.40             | ≤11.00         | PASS    |
| 11N20SISO  | Ant1    | 5180      | 4.50             | ≤11.00         | PASS    |
|            |         | 5200      | 4.80             | ≤11.00         | PASS    |
|            |         | 5240      | 4.97             | ≤11.00         | PASS    |
| 11N40SISO  | Ant1    | 5190      | -1.27            | ≤11.00         | PASS    |
|            |         | 5230      | -0.74            | ≤11.00         | PASS    |
| 11AC20SISO | Ant1    | 5180      | 2.73             | ≤11.00         | PASS    |
|            |         | 5200      | 3.21             | ≤11.00         | PASS    |
|            |         | 5240      | 3.11             | ≤11.00         | PASS    |
| 11AC40SISO | Ant1    | 5190      | -1.33            | ≤11.00         | PASS    |
|            |         | 5230      | -0.94            | ≤11.00         | PASS    |
| 11AC80SISO | Ant1    | 5210      | -3.94            | ≤11.00         | PASS    |

Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.  
 2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

## Test Graphs

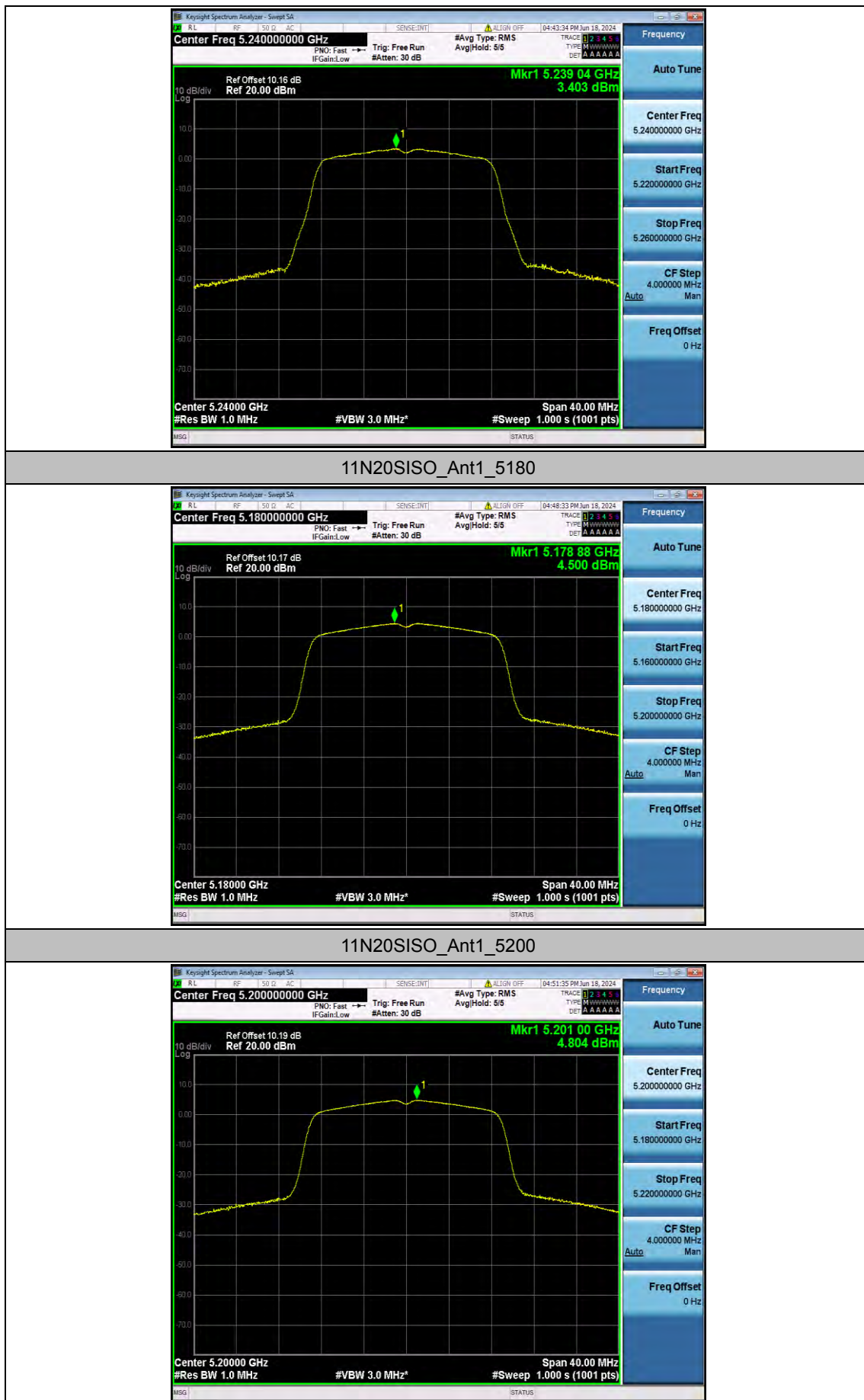
11A\_Ant1\_5180



11A\_Ant1\_5200



11A\_Ant1\_5240



## 11N20SISO\_Ant1\_5240



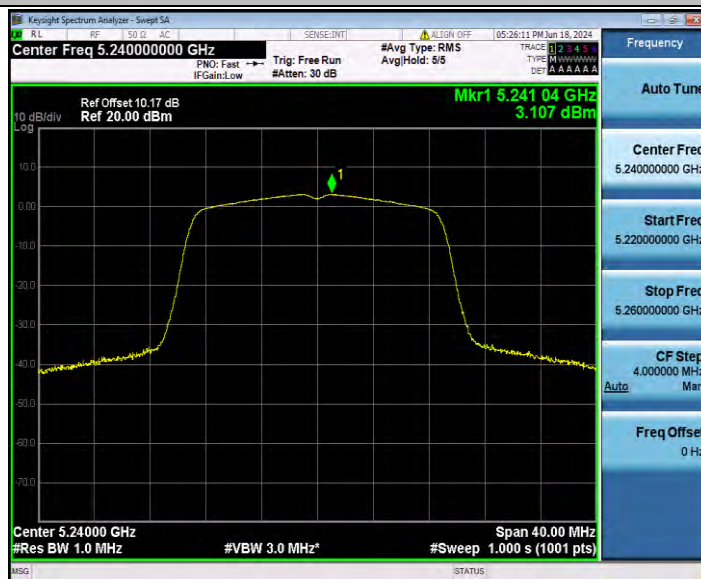
## 11N40SISO\_Ant1\_5190



## 11N40SISO\_Ant1\_5230



11AC20SISO\_Ant1\_5240



11AC40SISO\_Ant1\_5190



11AC40SISO\_Ant1\_5230

