

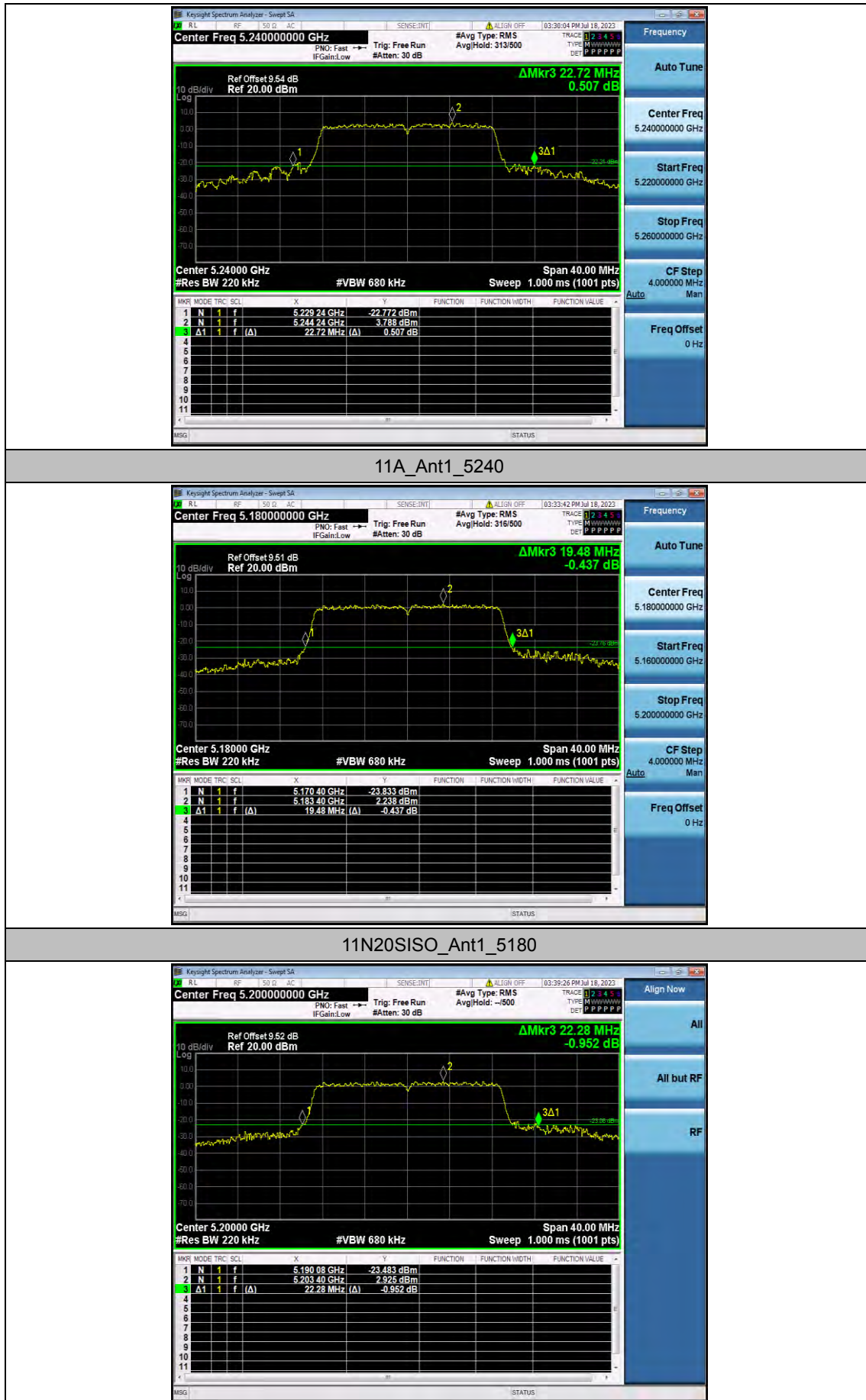
|                                                                       |                                          |
|-----------------------------------------------------------------------|------------------------------------------|
| <b>Case No. :</b> <u>GTS20230629015-1-13</u>                          |                                          |
| <b>Ambient Condition:</b> <u>23</u> °C, <u>49</u> %RH, Atmos100.1Kpa, |                                          |
| <b>Test Date:</b> <u>2023.7.14</u>                                    | <b>Test Engineer:</b> <u>Evan Ouyang</u> |

## Appendix D.1: Emission Bandwidth

### Test Result

| Test Mode  | Antenna | Frequency[MHz] | 26db<br>EBW<br>[MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|------------|---------|----------------|----------------------|----------|----------|------------|---------|
| 11A        | Ant1    | 5180           | 19.800               | 5170.720 | 5190.520 | ---        | ---     |
|            |         | 5200           | 23.400               | 5189.280 | 5212.680 | ---        | ---     |
|            |         | 5240           | 22.720               | 5229.240 | 5251.960 | ---        | ---     |
| 11N20SISO  | Ant1    | 5180           | 19.480               | 5170.400 | 5189.880 | ---        | ---     |
|            |         | 5200           | 22.280               | 5190.080 | 5212.360 | ---        | ---     |
|            |         | 5240           | 20.480               | 5230.000 | 5250.480 | ---        | ---     |
| 11N40SISO  | Ant1    | 5190           | 42.240               | 5169.760 | 5212.000 | ---        | ---     |
|            |         | 5230           | 42.960               | 5209.600 | 5252.560 | ---        | ---     |
| 11AC20SISO | Ant1    | 5180           | 21.960               | 5170.080 | 5192.040 | ---        | ---     |
|            |         | 5200           | 23.840               | 5190.040 | 5213.880 | ---        | ---     |
|            |         | 5240           | 20.600               | 5229.960 | 5250.560 | ---        | ---     |
| 11AC40SISO | Ant1    | 5190           | 42.320               | 5169.760 | 5212.080 | ---        | ---     |
|            |         | 5230           | 42.960               | 5209.760 | 5252.720 | ---        | ---     |
| 11AC80SISO | Ant1    | 5210           | 81.120               | 5169.680 | 5250.800 | ---        | ---     |

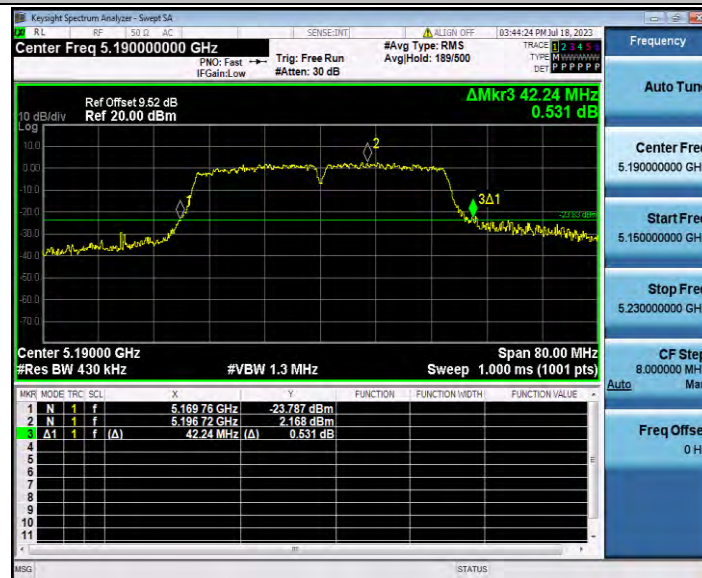




## 11N20SISO\_Ant1\_5200

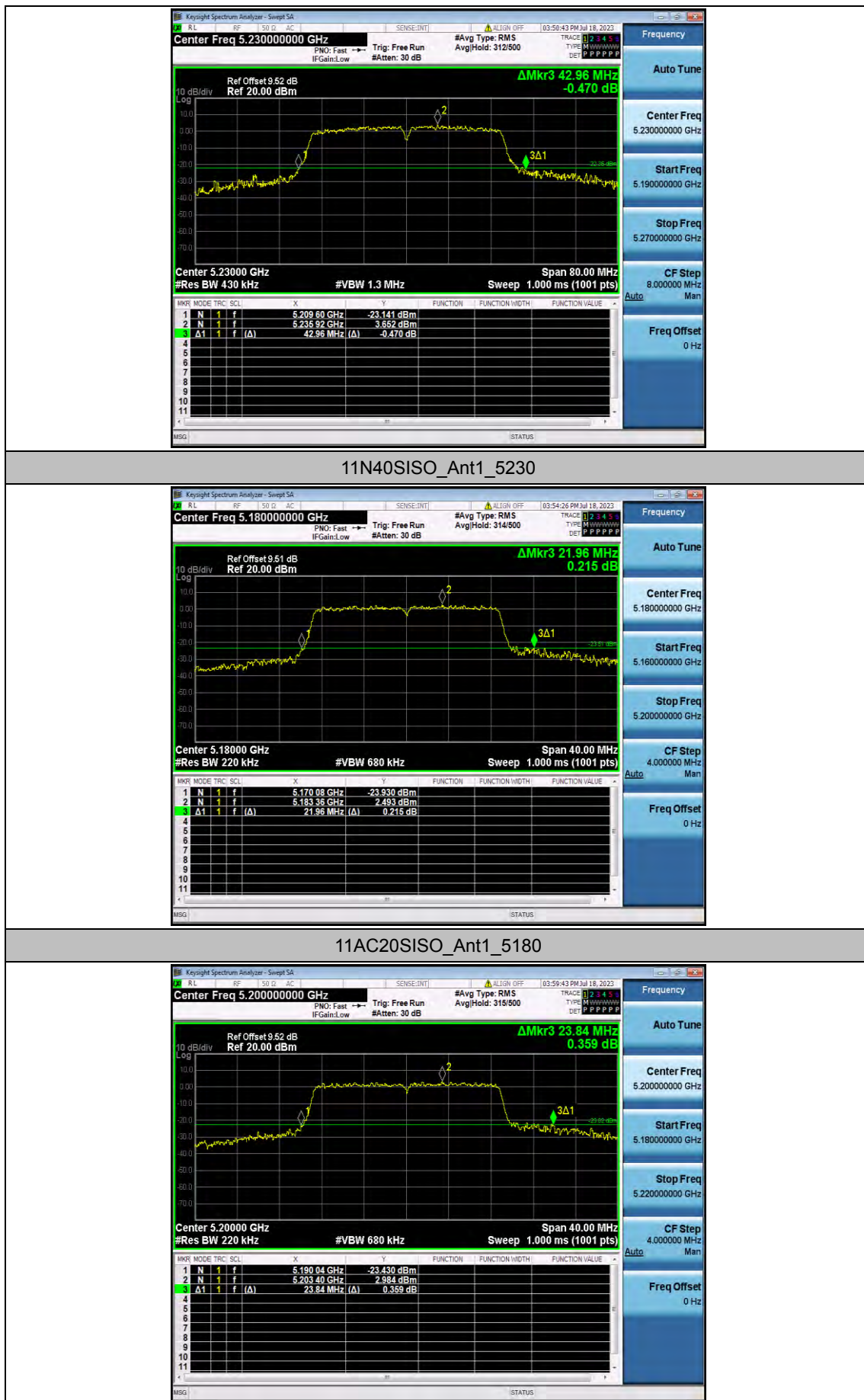


## 11N20SISO\_Ant1\_5240



## 11N40SISO\_Ant1\_5190

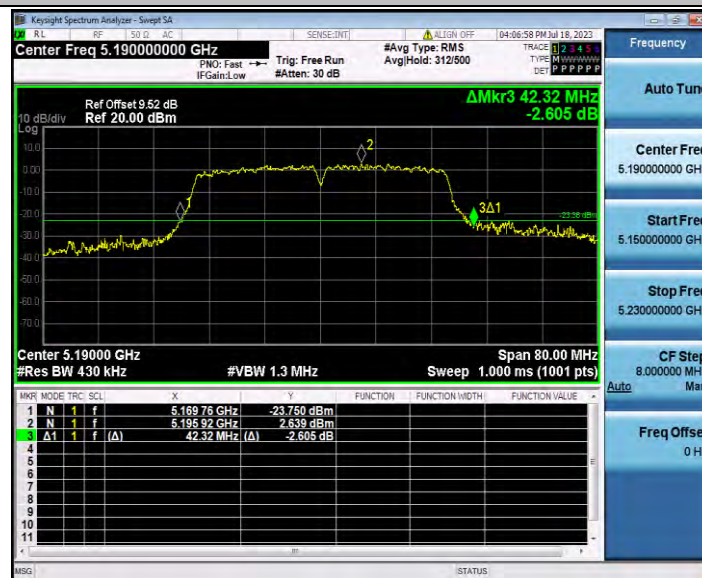




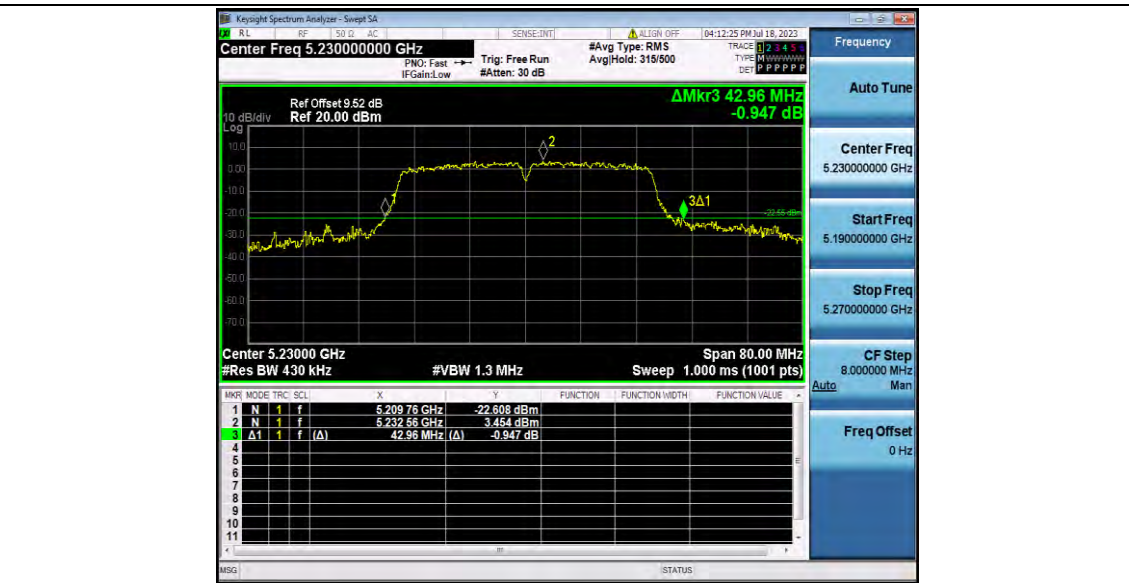
## 11AC20SISO\_Ant1\_5200



## 11AC20SISO\_Ant1\_5240



## 11AC40SISO\_Ant1\_5190



## Appendix D.2: Occupied channel bandwidth

### Test Result

| Test Mode  | Antenna | Frequency[MHz] | OCB [MHz] | FL[MHz]  | FH[MHz]  | Limit[MHz] | Verdict |
|------------|---------|----------------|-----------|----------|----------|------------|---------|
| 11A        | Ant1    | 5180           | 16.600    | 5171.771 | 5188.371 | ---        | ---     |
|            |         | 5200           | 16.692    | 5191.739 | 5208.431 | ---        | ---     |
|            |         | 5240           | 16.652    | 5231.726 | 5248.378 | ---        | ---     |
| 11N20SISO  | Ant1    | 5180           | 17.663    | 5171.260 | 5188.923 | ---        | ---     |
|            |         | 5200           | 17.710    | 5191.252 | 5208.962 | ---        | ---     |
|            |         | 5240           | 17.716    | 5231.221 | 5248.937 | ---        | ---     |
| 11N40SISO  | Ant1    | 5190           | 36.455    | 5172.088 | 5208.543 | ---        | ---     |
|            |         | 5230           | 36.484    | 5212.001 | 5248.485 | ---        | ---     |
| 11AC20SISO | Ant1    | 5180           | 17.691    | 5171.243 | 5188.934 | ---        | ---     |
|            |         | 5200           | 17.718    | 5191.247 | 5208.965 | ---        | ---     |
|            |         | 5240           | 17.708    | 5231.224 | 5248.932 | ---        | ---     |
| 11AC40SISO | Ant1    | 5190           | 36.450    | 5172.077 | 5208.527 | ---        | ---     |
|            |         | 5230           | 36.450    | 5212.018 | 5248.468 | ---        | ---     |
| 11AC80SISO | Ant1    | 5210           | 74.329    | 5173.393 | 5247.722 | ---        | ---     |



## Test Graphs



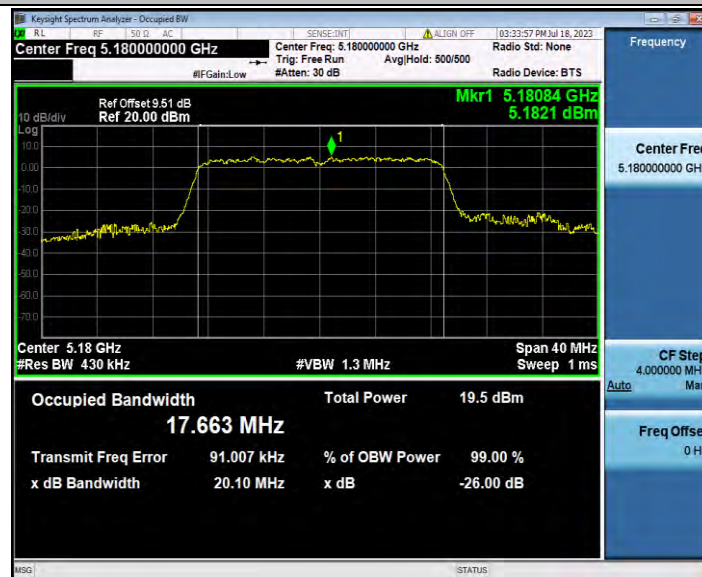
11A\_Ant1\_5180



11A\_Ant1\_5200



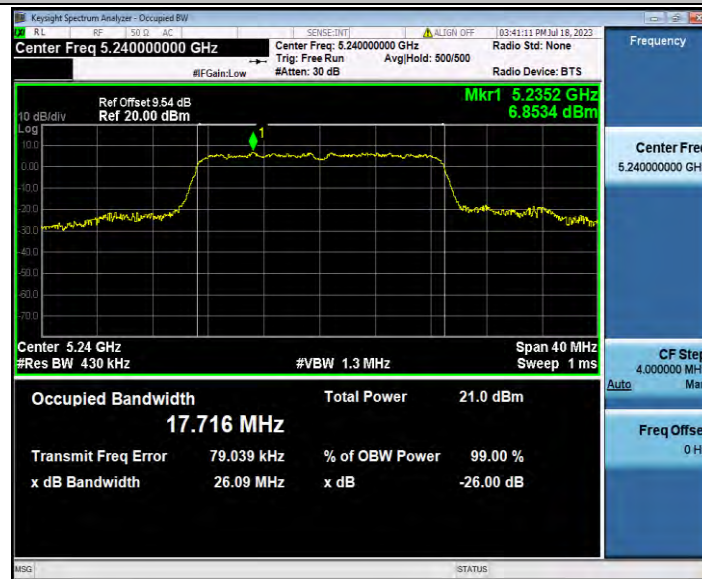
11A\_Ant1\_5240



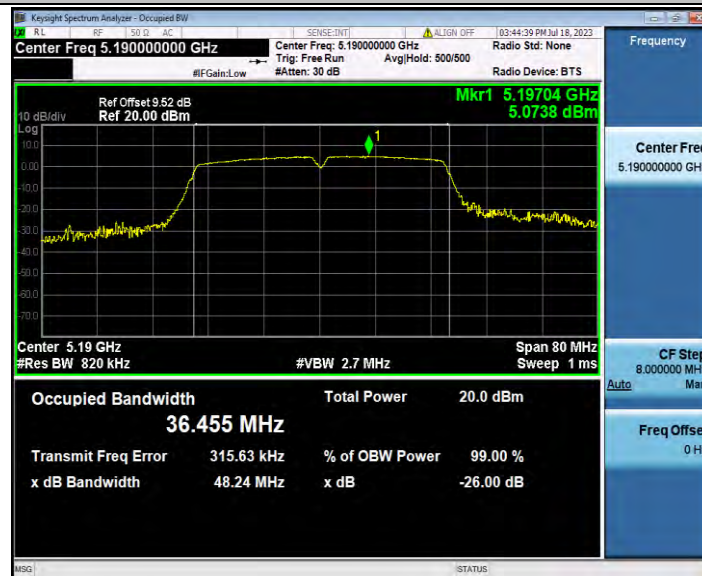
11N20SISO\_Ant1\_5180



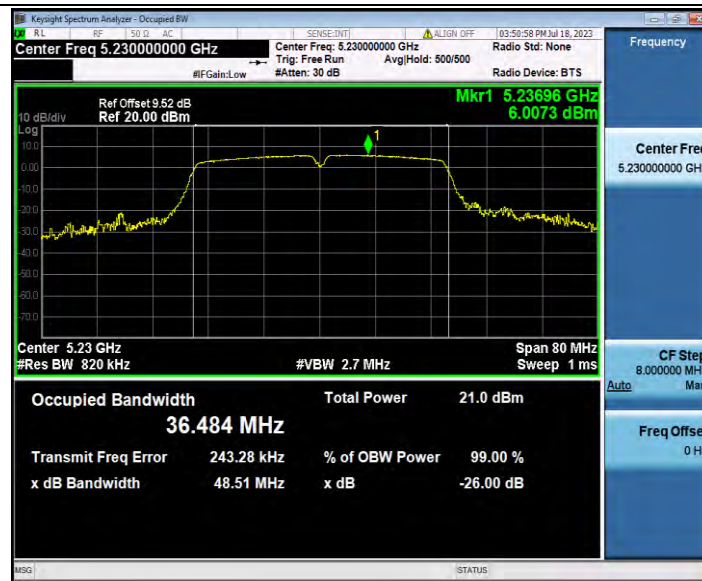
## 11N20SISO\_Ant1\_5200



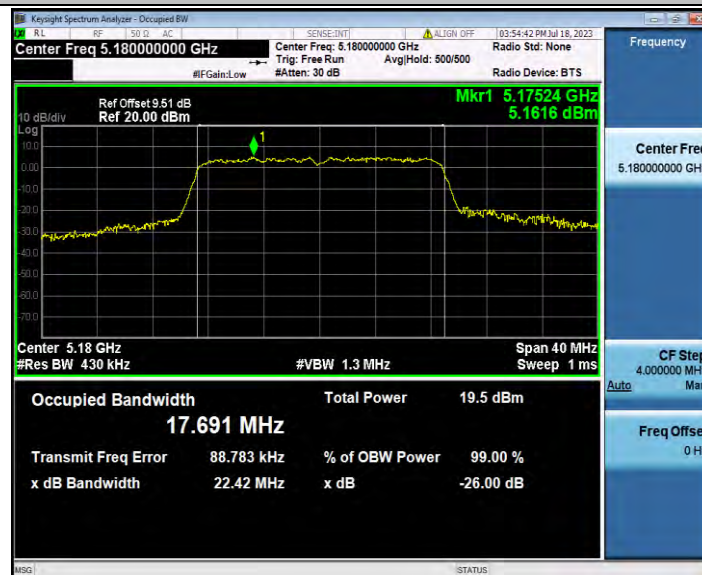
## 11N20SISO\_Ant1\_5240



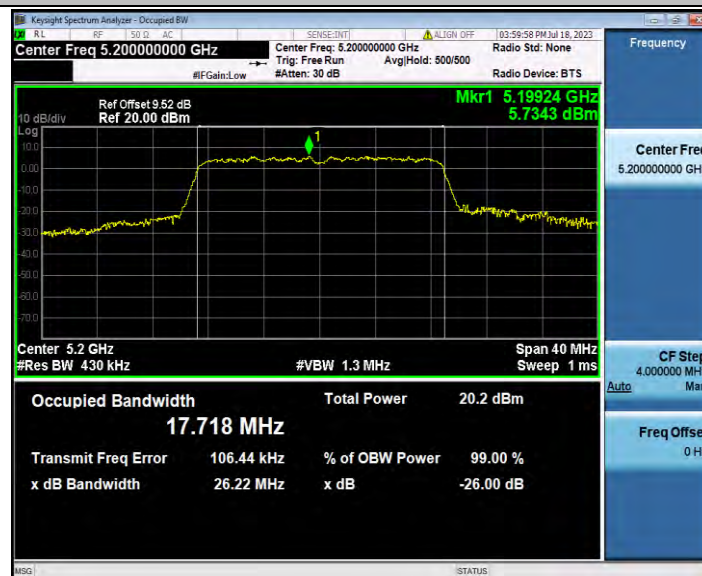
## 11N40SISO\_Ant1\_5190



11N40SISO\_Ant1\_5230



11AC20SISO\_Ant1\_5180





## 11AC20SISO\_Ant1\_5200



## 11AC20SISO\_Ant1\_5240



## 11AC40SISO\_Ant1\_5190





11AC40SISO\_Ant1\_5230



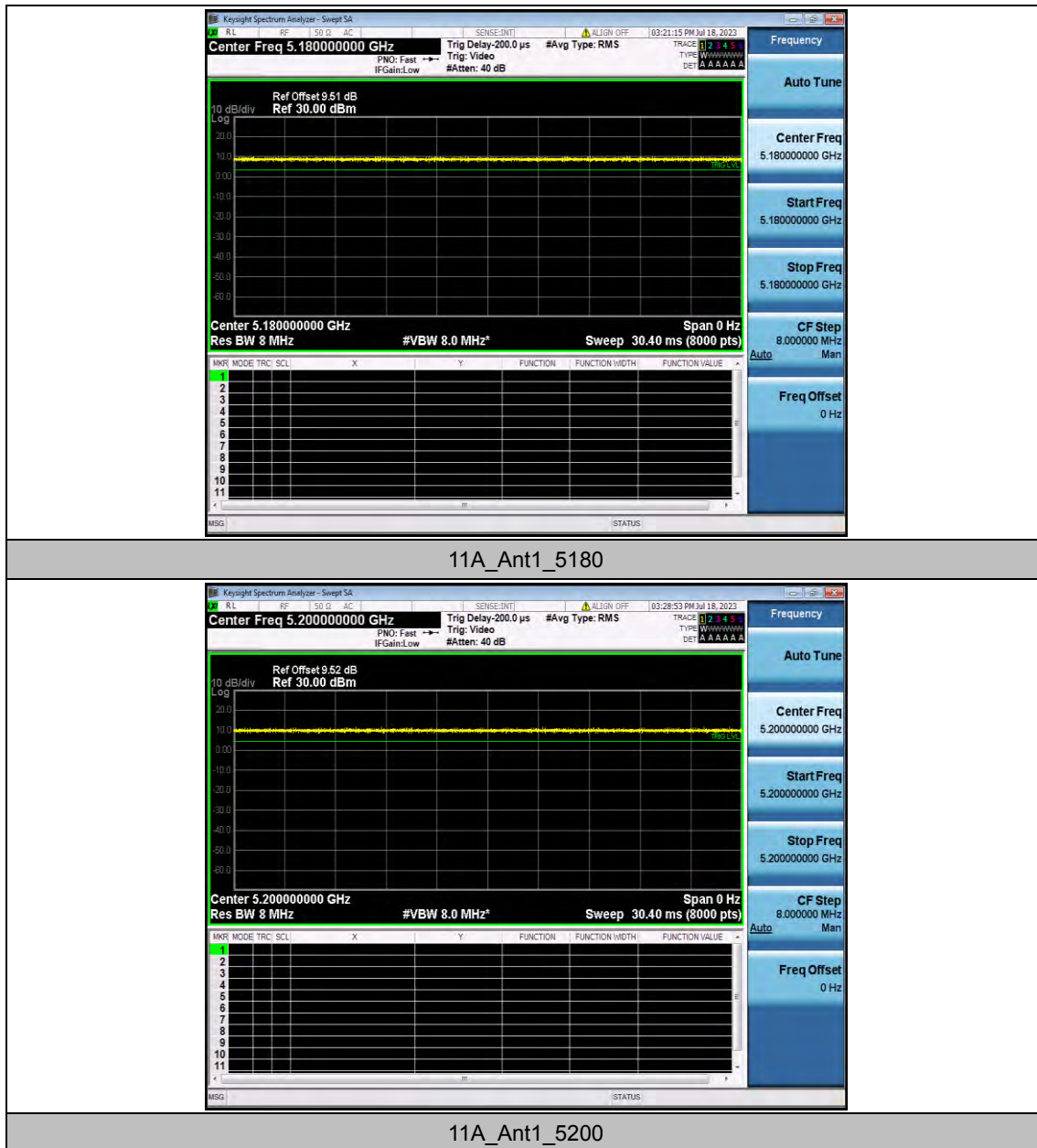
11AC80SISO\_Ant1\_5210

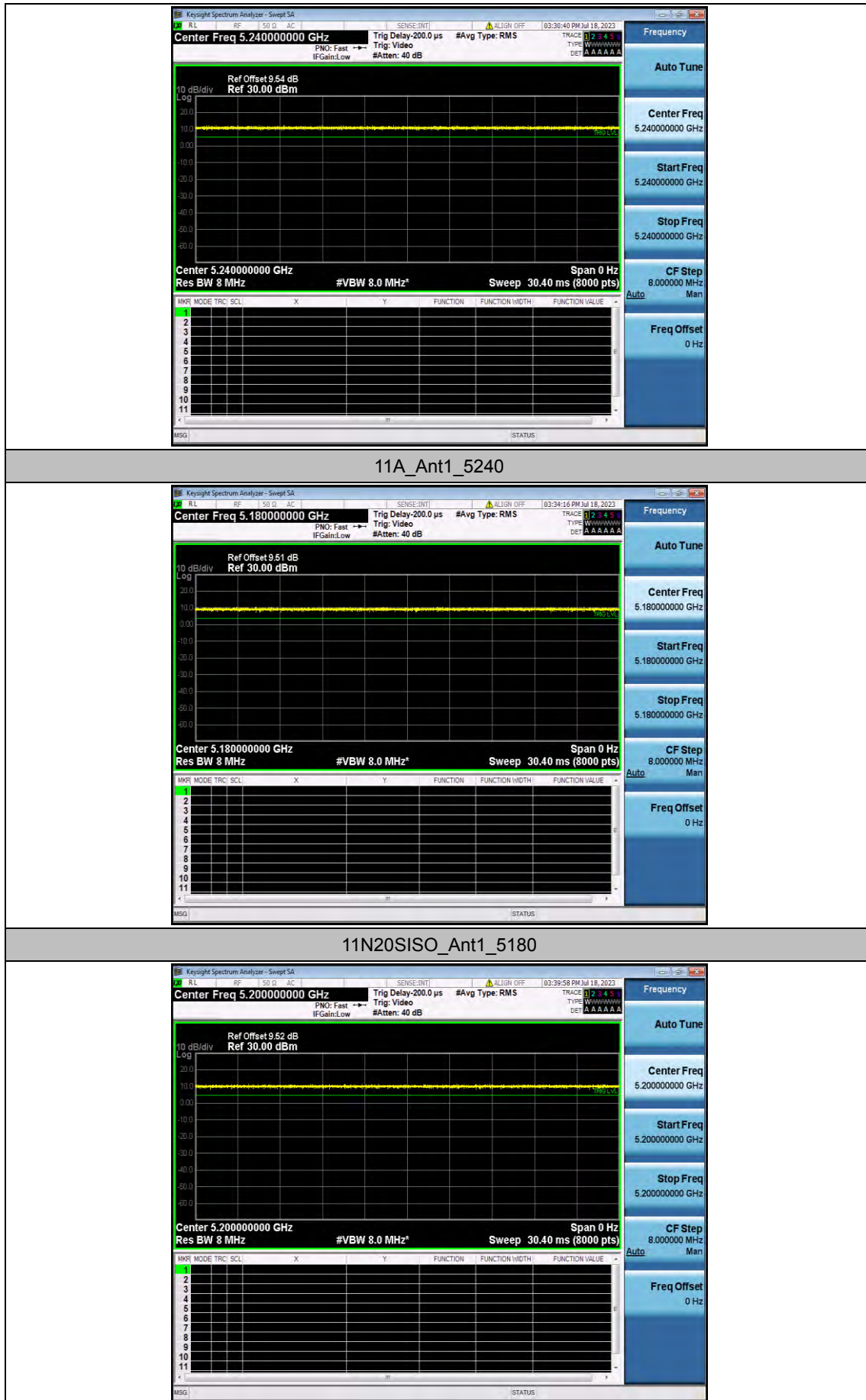
## Appendix D.3: Duty Cycle

### Test Result

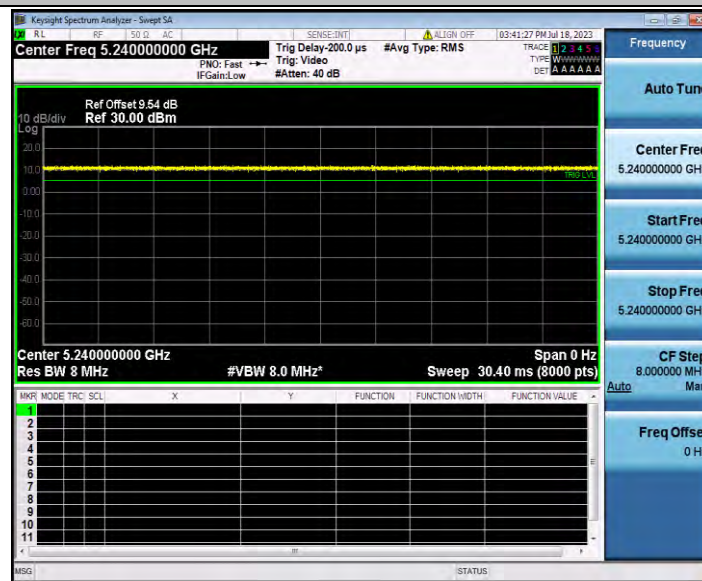
| Test Mode  | Antenna | Frequency[MHz] | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] |
|------------|---------|----------------|----------------------------|--------------------------|----------------|
| 11A        | Ant1    | 5180           | 30.00                      | 30.00                    | 100.00         |
|            |         | 5200           | 30.00                      | 30.00                    | 100.00         |
|            |         | 5240           | 30.00                      | 30.00                    | 100.00         |
| 11N20SISO  | Ant1    | 5180           | 30.00                      | 30.00                    | 100.00         |
|            |         | 5200           | 30.00                      | 30.00                    | 100.00         |
|            |         | 5240           | 30.00                      | 30.00                    | 100.00         |
| 11N40SISO  | Ant1    | 5190           | 30.00                      | 30.00                    | 100.00         |
|            |         | 5230           | 30.00                      | 30.00                    | 100.00         |
| 11AC20SISO | Ant1    | 5180           | 30.00                      | 30.00                    | 100.00         |
|            |         | 5200           | 30.00                      | 30.00                    | 100.00         |
|            |         | 5240           | 30.00                      | 30.00                    | 100.00         |
| 11AC40SISO | Ant1    | 5190           | 30.00                      | 30.00                    | 100.00         |
|            |         | 5230           | 30.00                      | 30.00                    | 100.00         |
| 11AC80SISO | Ant1    | 5210           | 30.00                      | 30.00                    | 100.00         |

## Test Graphs

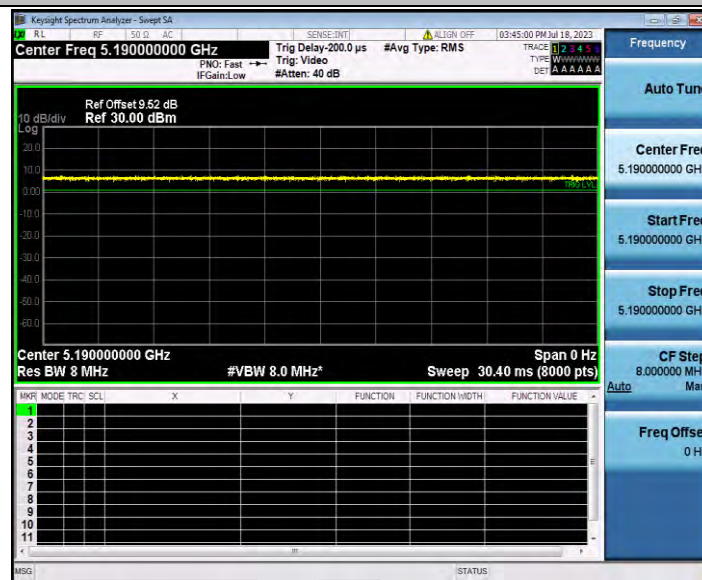




## 11N20SISO\_Ant1\_5200

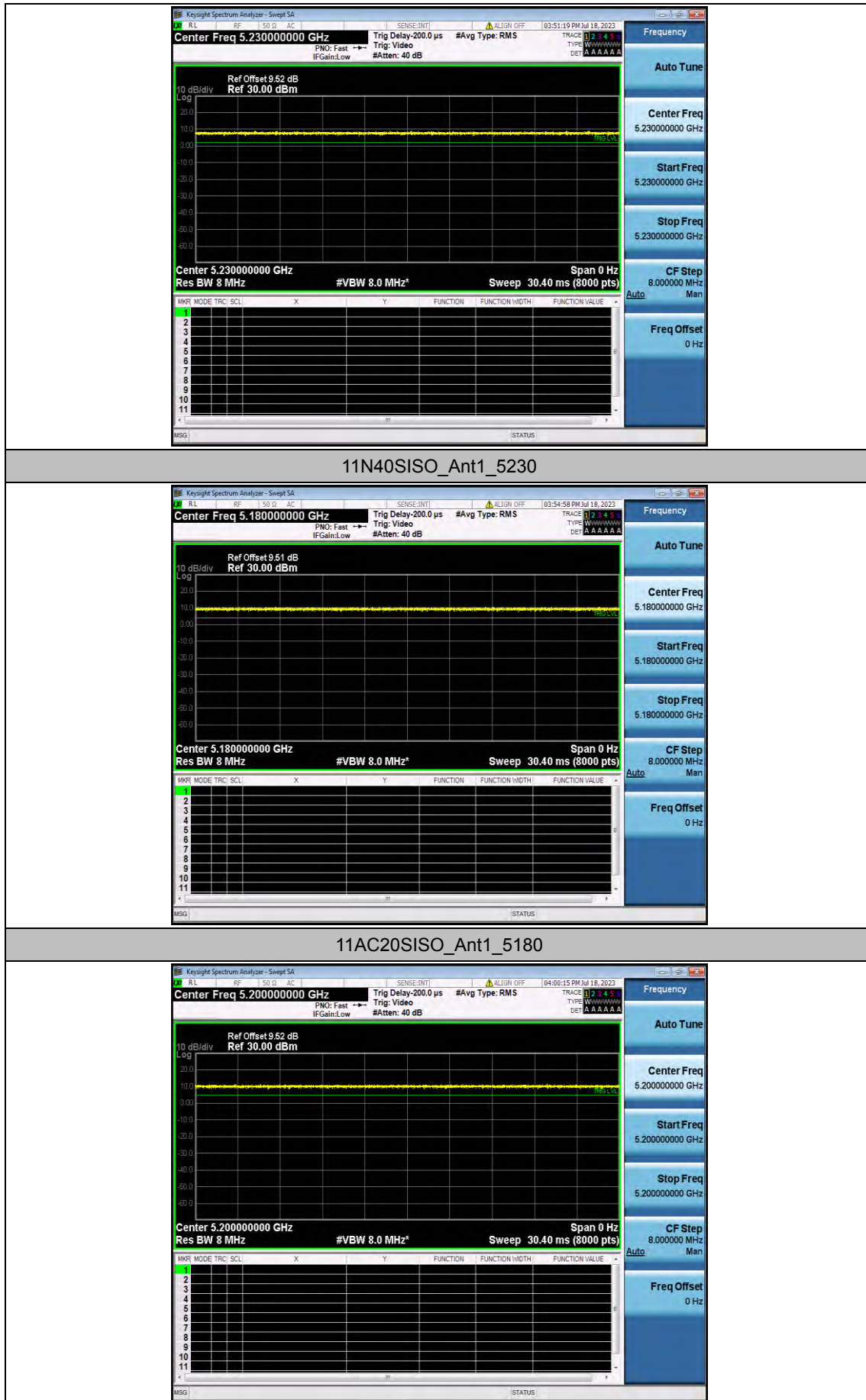


## 11N20SISO\_Ant1\_5240

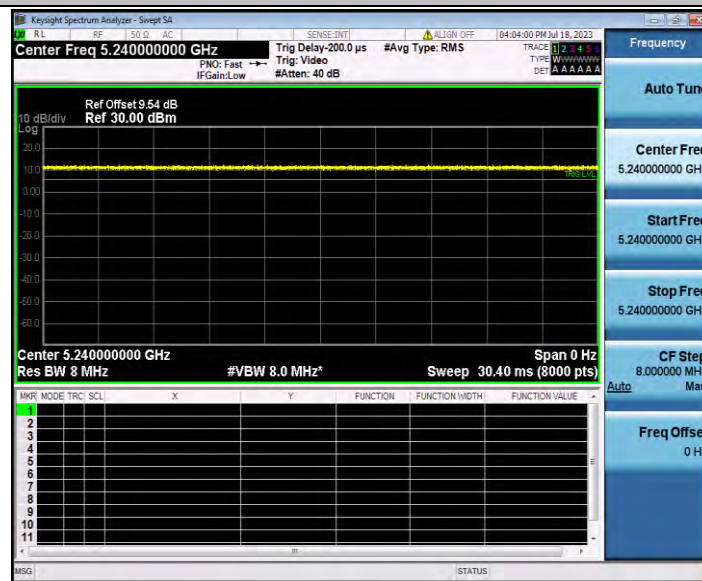


## 11N40SISO\_Ant1\_5190

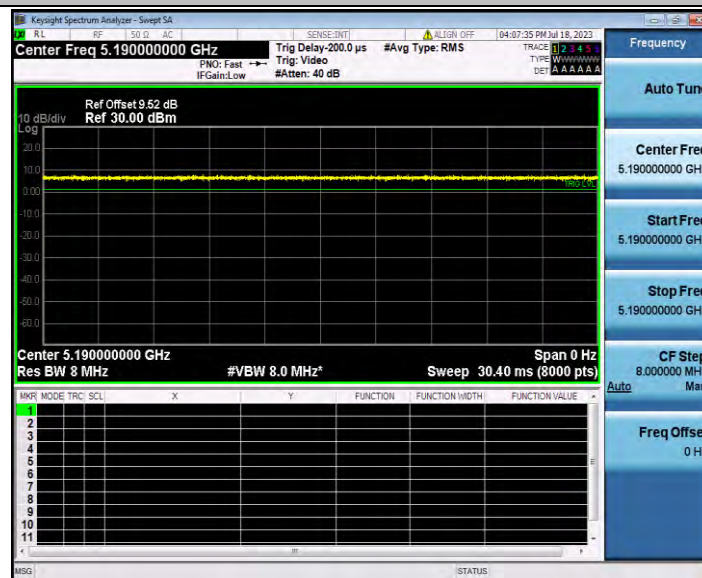




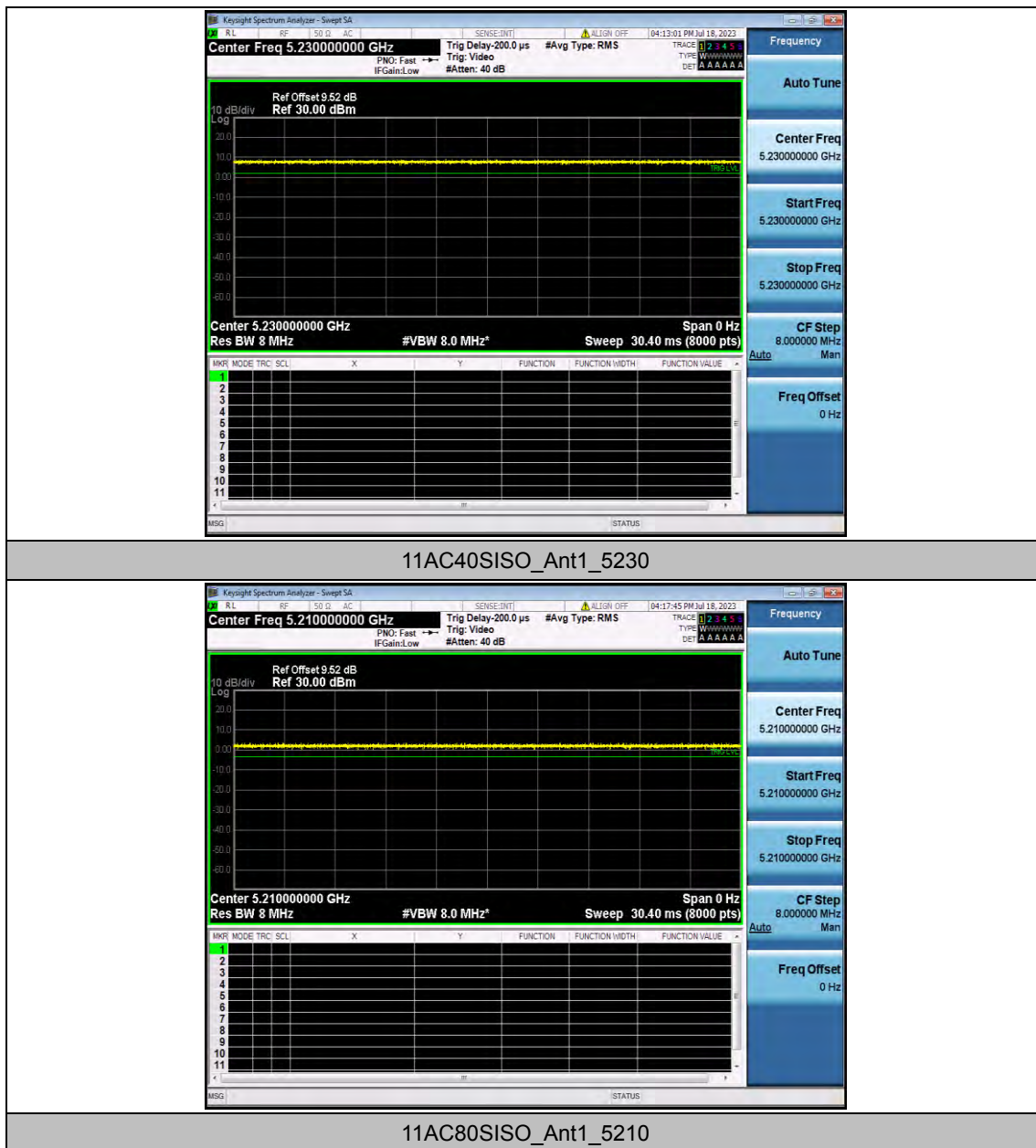
## 11AC20SISO\_Ant1\_5200



## 11AC20SISO\_Ant1\_5240



## 11AC40SISO\_Ant1\_5190



## Appendix D.4: Maximum conducted output power

### Test Result Channel Power

| Test Mode  | Antenna | Frequency[MHz] | Channel Power [dBm] | Duty Cycle [%] | DC Factor [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|------------|---------|----------------|---------------------|----------------|-----------------|--------------|-------------|---------|
| 11A        | Ant1    | 5180           | 12.07               | 100.00         | 0.00            | 12.07        | ≤23.98      | PASS    |
|            |         | 5200           | 13.17               | 100.00         | 0.00            | 13.17        | ≤23.98      | PASS    |
|            |         | 5240           | 14.11               | 100.00         | 0.00            | 14.11        | ≤23.98      | PASS    |
| 11N20SISO  | Ant1    | 5180           | 12.84               | 100.00         | 0.00            | 12.84        | ≤23.98      | PASS    |
|            |         | 5200           | 13.59               | 100.00         | 0.00            | 13.59        | ≤23.98      | PASS    |
|            |         | 5240           | 14.43               | 100.00         | 0.00            | 14.43        | ≤23.98      | PASS    |
| 11N40SISO  | Ant1    | 5190           | 12.76               | 100.00         | 0.00            | 12.76        | ≤23.98      | PASS    |
|            |         | 5230           | 13.86               | 100.00         | 0.00            | 13.86        | ≤23.98      | PASS    |
| 11AC20SISO | Ant1    | 5180           | 12.76               | 100.00         | 0.00            | 12.76        | ≤23.98      | PASS    |
|            |         | 5200           | 13.58               | 100.00         | 0.00            | 13.58        | ≤23.98      | PASS    |
|            |         | 5240           | 14.66               | 100.00         | 0.00            | 14.66        | ≤23.98      | PASS    |
| 11AC40SISO | Ant1    | 5190           | 12.97               | 100.00         | 0.00            | 12.97        | ≤23.98      | PASS    |
|            |         | 5230           | 13.95               | 100.00         | 0.00            | 13.95        | ≤23.98      | PASS    |
| 11AC80SISO | Ant1    | 5210           | 11.78               | 100.00         | 0.00            | 11.78        | ≤23.98      | PASS    |

Note: The Duty Cycle Factor is compensated in the graph.

## Appendix D.5: Maximum power spectral density

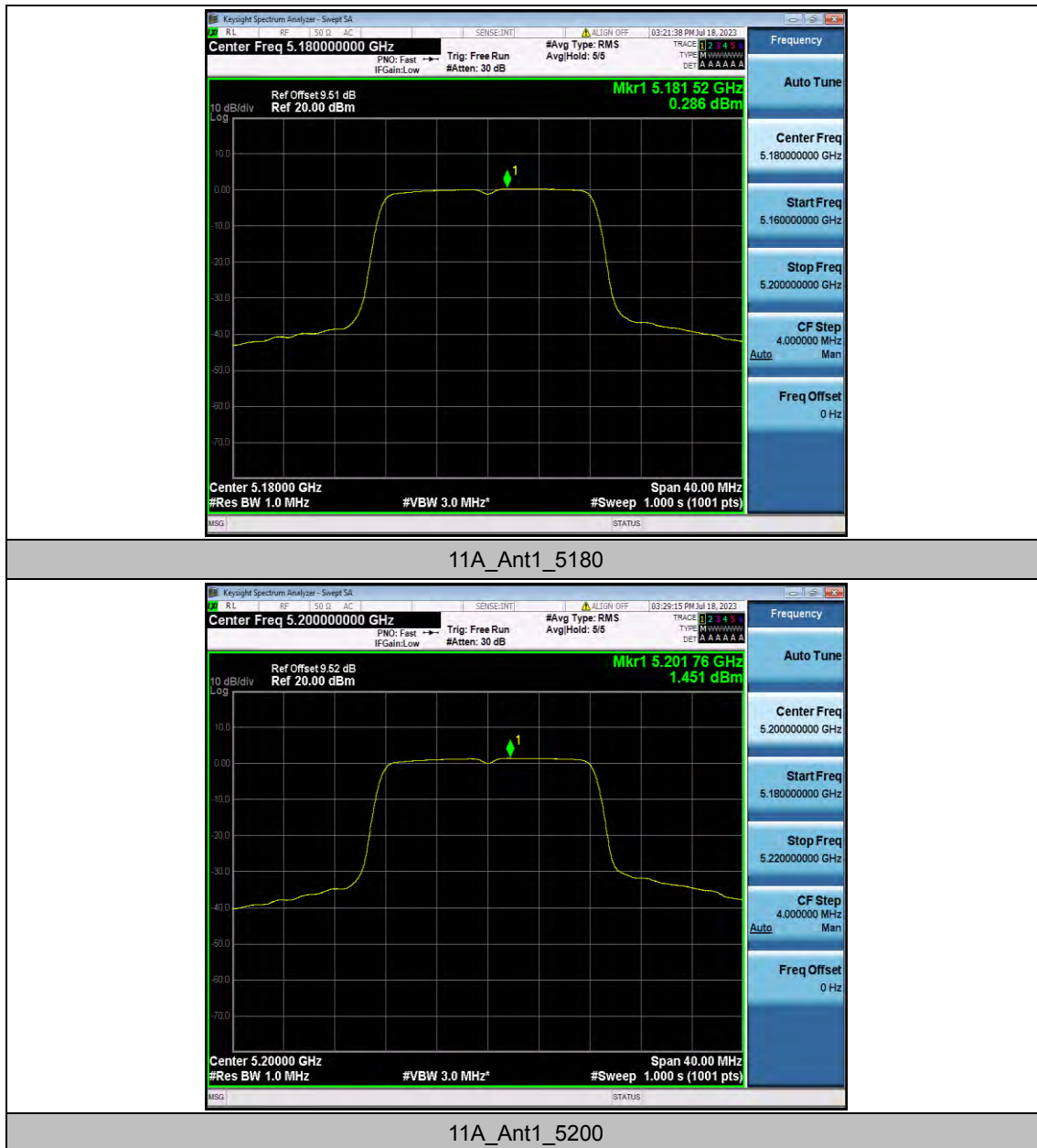
### Test Result

| Test Mode  | Antenna | Frequency[MHz] | Result [dBm/MHz] | Limit[dBm/MHz] | Verdict |
|------------|---------|----------------|------------------|----------------|---------|
| 11A        | Ant1    | 5180           | 0.29             | $\leq 11.00$   | PASS    |
|            |         | 5200           | 1.45             | $\leq 11.00$   | PASS    |
|            |         | 5240           | 2.37             | $\leq 11.00$   | PASS    |
| 11N20SISO  | Ant1    | 5180           | 0.85             | $\leq 11.00$   | PASS    |
|            |         | 5200           | 1.67             | $\leq 11.00$   | PASS    |
|            |         | 5240           | 2.51             | $\leq 11.00$   | PASS    |
| 11N40SISO  | Ant1    | 5190           | -1.65            | $\leq 11.00$   | PASS    |
|            |         | 5230           | -0.49            | $\leq 11.00$   | PASS    |
| 11AC20SISO | Ant1    | 5180           | 0.8              | $\leq 11.00$   | PASS    |
|            |         | 5200           | 1.64             | $\leq 11.00$   | PASS    |
|            |         | 5240           | 2.75             | $\leq 11.00$   | PASS    |
| 11AC40SISO | Ant1    | 5190           | -1.44            | $\leq 11.00$   | PASS    |
|            |         | 5230           | -0.36            | $\leq 11.00$   | PASS    |
| 11AC80SISO | Ant1    | 5210           | -5.12            | $\leq 11.00$   | 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





## 11N20SISO\_Ant1\_5200



## 11N20SISO\_Ant1\_5240



## 11N40SISO\_Ant1\_5190





## 11AC20SISO\_Ant1\_5200



## 11AC20SISO\_Ant1\_5240

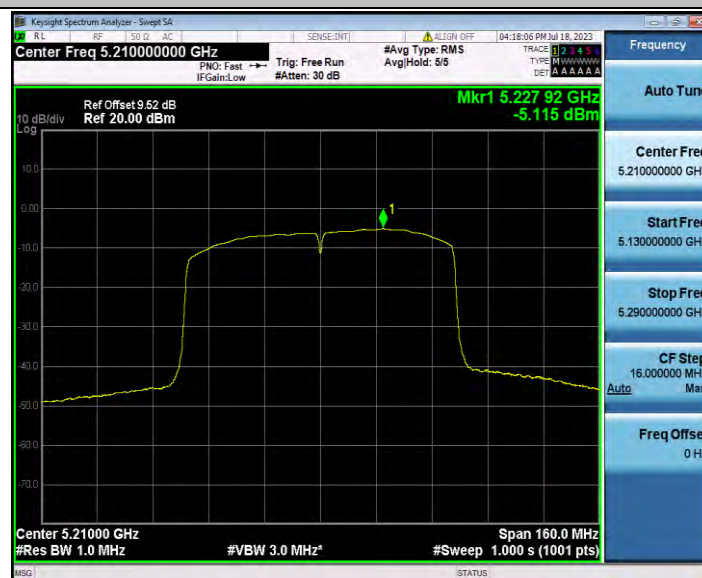


## 11AC40SISO\_Ant1\_5190





11AC40SISO\_Ant1\_5230



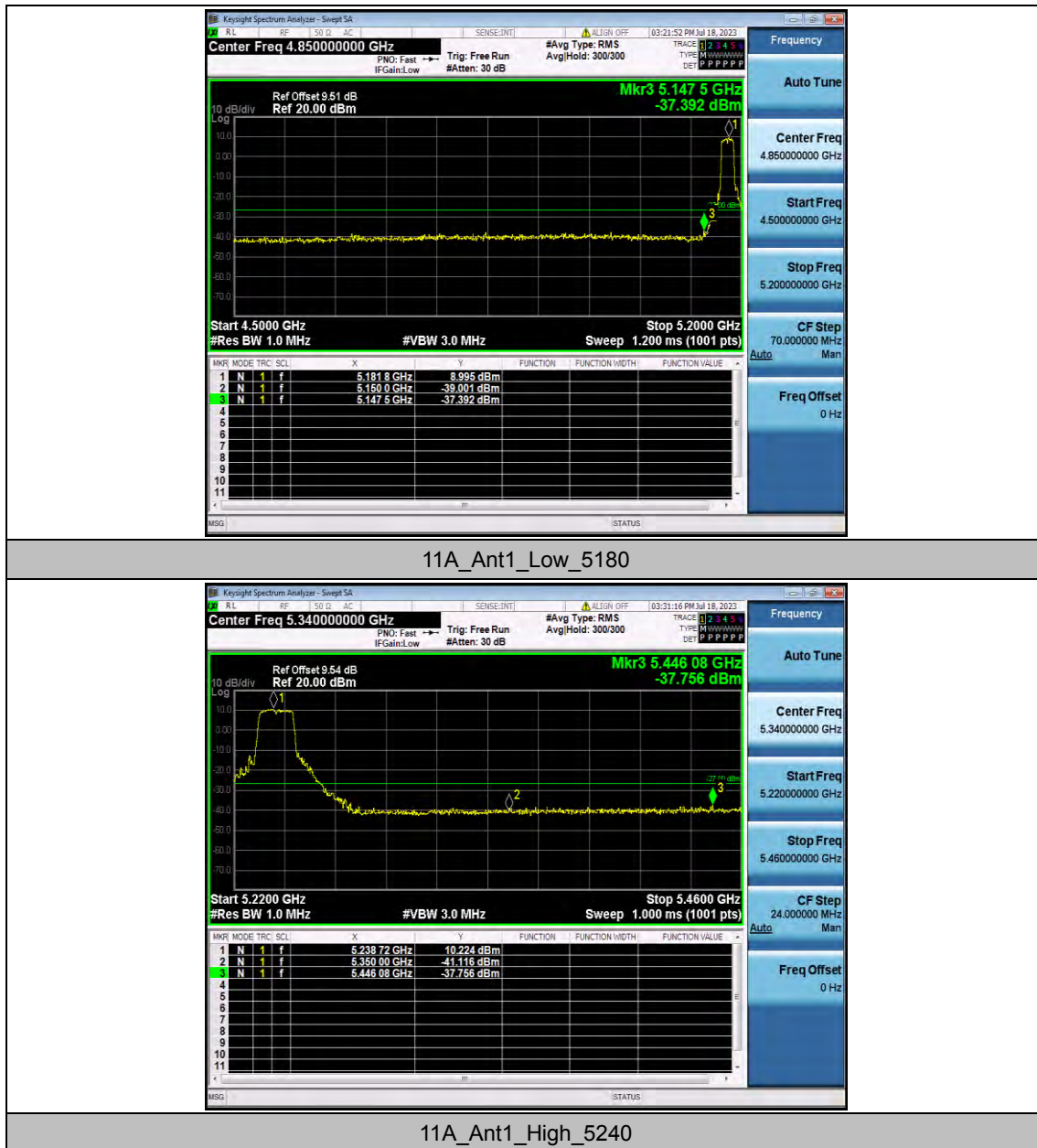
11AC80SISO\_Ant1\_5210

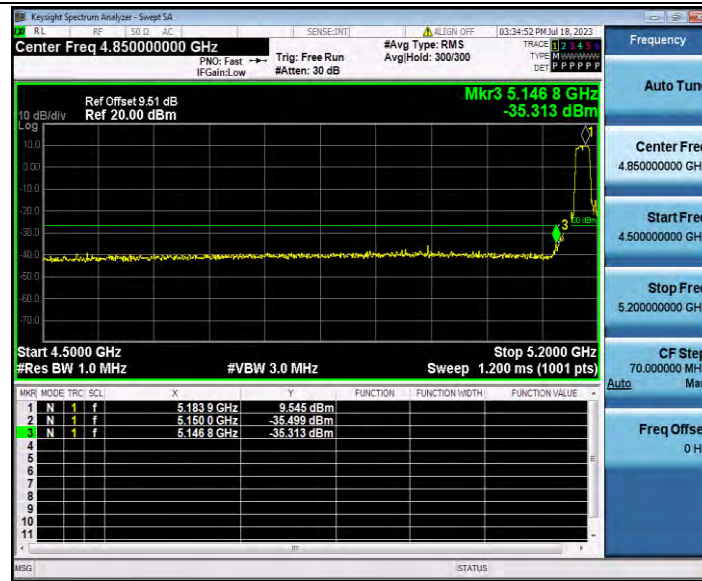
## Appendix D.6: Band edge measurements

### Test Result B1

| Test Mode  | Antenna | ChName | Frequency[MHz] | Result[dBm] | Limit[dBm] | Verdict |
|------------|---------|--------|----------------|-------------|------------|---------|
| 11A        | Ant1    | Low    | 5180           | -37.39      | $\leq -27$ | PASS    |
|            |         | High   | 5240           | -37.76      | $\leq -27$ | PASS    |
| 11N20SISO  | Ant1    | Low    | 5180           | -35.31      | $\leq -27$ | PASS    |
|            |         | High   | 5240           | -37.08      | $\leq -27$ | PASS    |
| 11N40SISO  | Ant1    | Low    | 5190           | -33.98      | $\leq -27$ | PASS    |
|            |         | High   | 5230           | -37.86      | $\leq -27$ | PASS    |
| 11AC20SISO | Ant1    | Low    | 5180           | -33.54      | $\leq -27$ | PASS    |
|            |         | High   | 5240           | -38.04      | $\leq -27$ | PASS    |
| 11AC40SISO | Ant1    | Low    | 5190           | -33.21      | $\leq -27$ | PASS    |
|            |         | High   | 5230           | -38.15      | $\leq -27$ | PASS    |
| 11AC80SISO | Ant1    | Low    | 5210           | -35.76      | $\leq -27$ | PASS    |
|            |         | High   | 5210           | -38.22      | $\leq -27$ | PASS    |

## Test Graphs B1

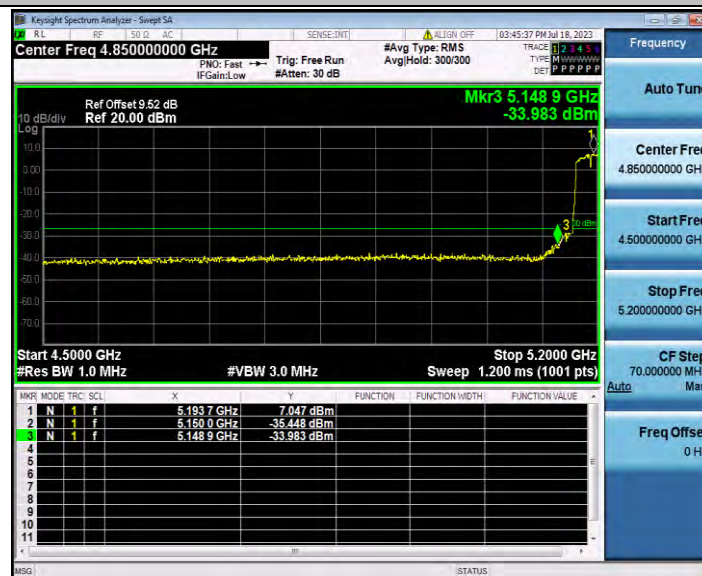




11N20SISO\_Ant1\_Low\_5180



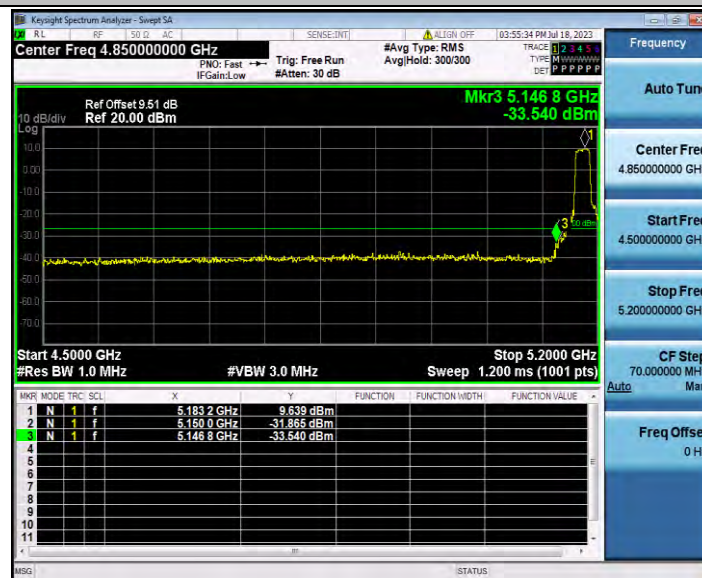
11N20SISO\_Ant1\_High\_5240



## 11N40SISO\_Ant1\_Low\_5190

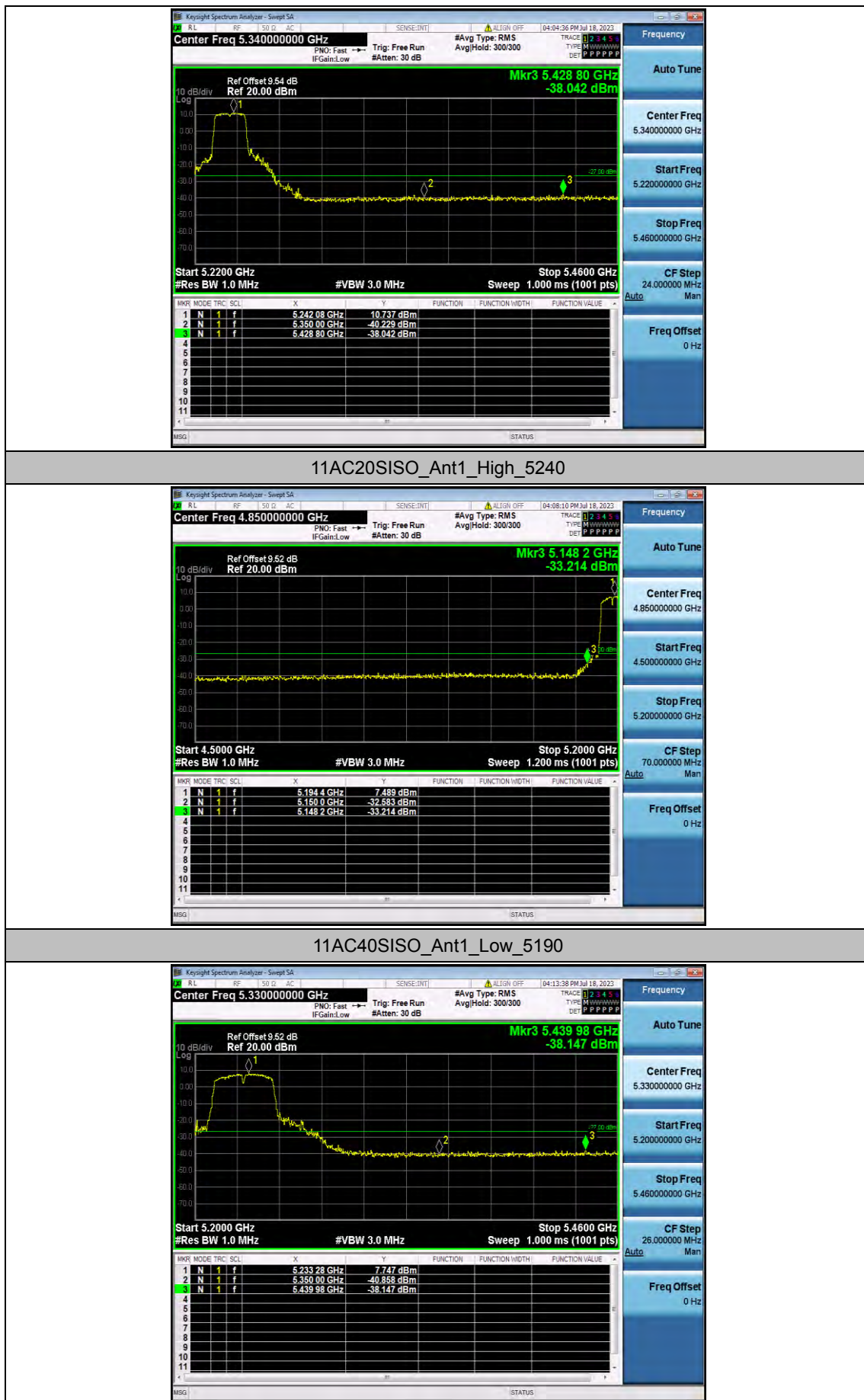


## 11N40SISO\_Ant1\_High\_5230

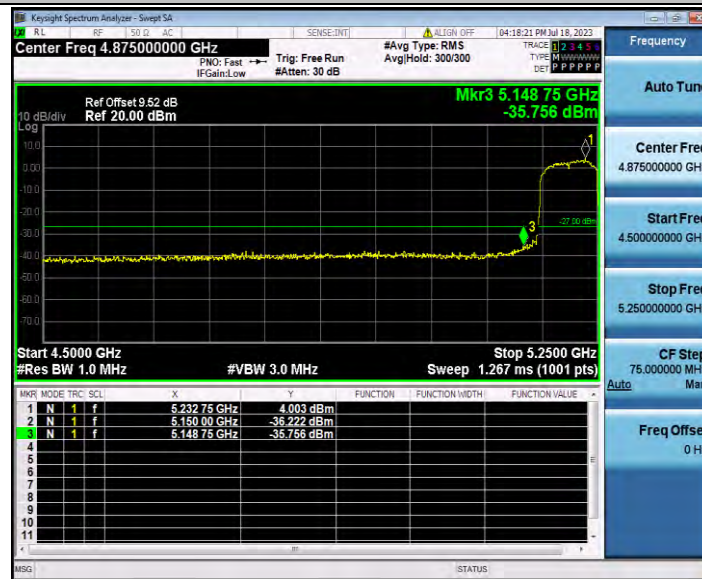


## 11AC20SISO\_Ant1\_Low\_5180





## 11AC40SISO\_Ant1\_High\_5230



## 11AC80SISO\_Ant1\_Low\_5210



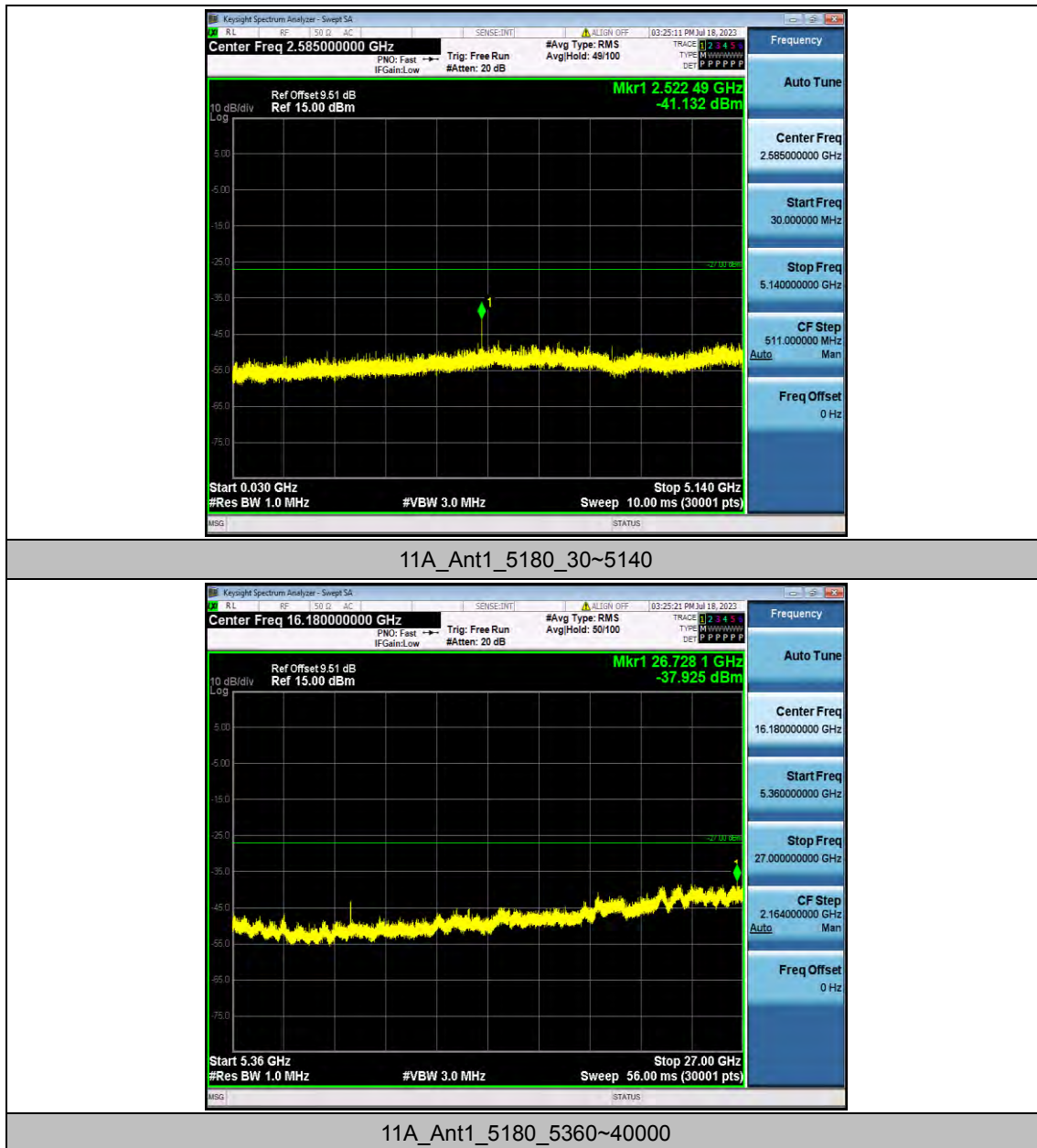
## 11AC80SISO\_Ant1\_High\_5210

## Appendix D.7: Conducted Spurious Emission

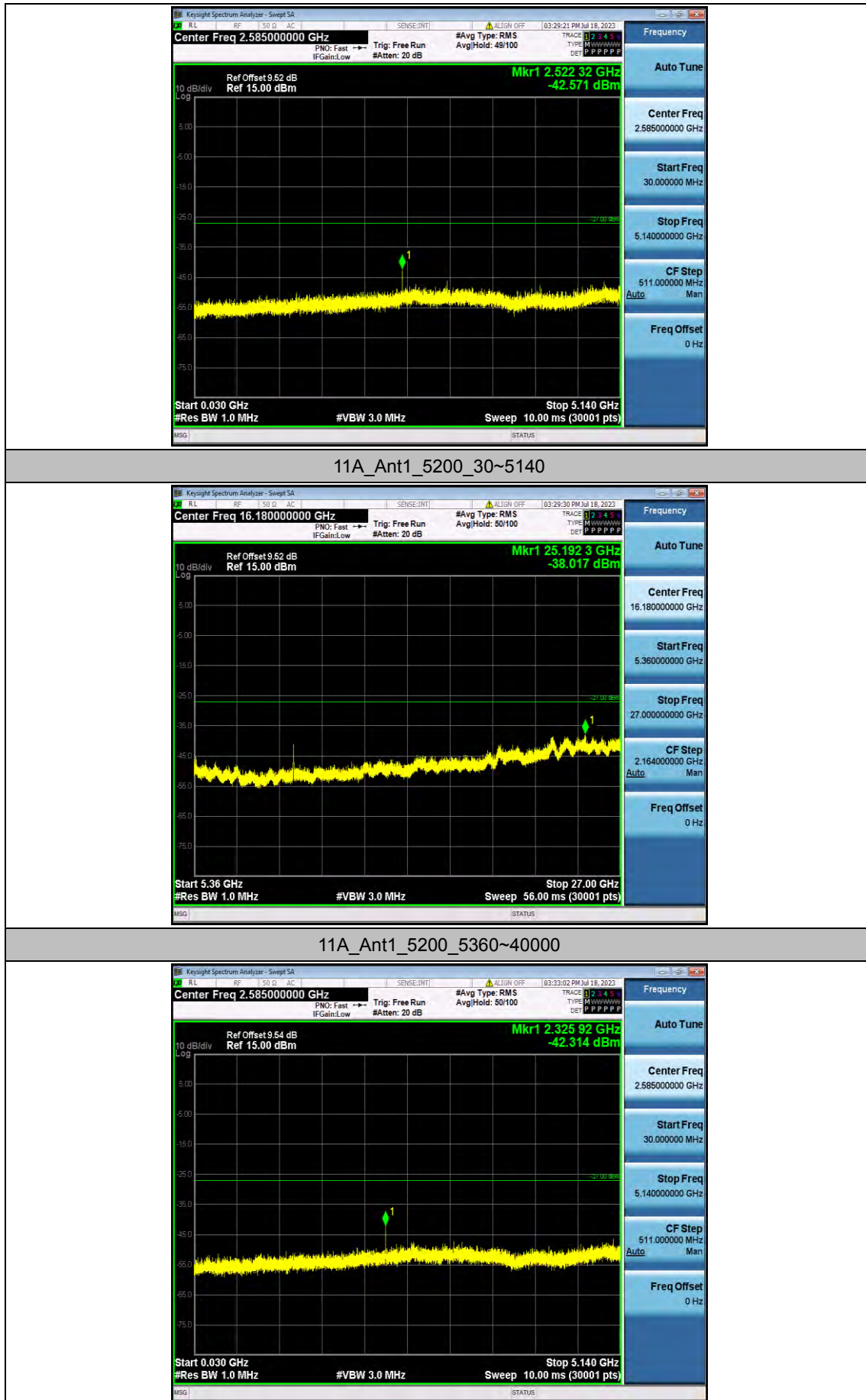
### Test Result

| Test Mode  | Antenna | Frequency[MHz] | FreqRange [MHz] | Max. Fre [MHz] | Max. Level [dBm] | Limit [dBm] | Verdict |
|------------|---------|----------------|-----------------|----------------|------------------|-------------|---------|
| 11A        | Ant1    | 5180           | 30~5140         | 2522.49        | -41.13           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 26728.06       | -37.93           | ≤-27        | PASS    |
|            |         | 5200           | 30~5140         | 2522.32        | -42.57           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 25192.34       | -38.02           | ≤-27        | PASS    |
|            |         | 5240           | 30~5140         | 2325.92        | -42.31           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 24792.72       | -37.95           | ≤-27        | PASS    |
| 11N20SISO  | Ant1    | 5180           | 30~5140         | 4990.79        | -46.98           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 24761.7        | -37.98           | ≤-27        | PASS    |
|            |         | 5200           | 30~5140         | 2335.46        | -44.58           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 23551.31       | -37.57           | ≤-27        | PASS    |
|            |         | 5240           | 30~5140         | 2678.85        | -47.29           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 24263.98       | -37.92           | ≤-27        | PASS    |
| 11N40SISO  | Ant1    | 5190           | 30~5140         | 5139.66        | -40.74           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 24319.53       | -37.49           | ≤-27        | PASS    |
|            |         | 5230           | 30~5140         | 2679.19        | -47.64           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 24942.76       | -37.92           | ≤-27        | PASS    |
| 11AC20SISO | Ant1    | 5180           | 30~5140         | 5011.91        | -46.79           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 26510.94       | -37.98           | ≤-27        | PASS    |
|            |         | 5200           | 30~5140         | 5066.42        | -47.57           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 26607.59       | -38.13           | ≤-27        | PASS    |
|            |         | 5240           | 30~5140         | 5059.77        | -47.95           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 26433.03       | -37.66           | ≤-27        | PASS    |
| 11AC40SISO | Ant1    | 5190           | 30~5140         | 5137.1         | -39.96           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 26774.94       | -37.54           | ≤-27        | PASS    |
|            |         | 5230           | 30~5140         | 4888.25        | -46.71           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 24192.57       | -37.57           | ≤-27        | PASS    |
| 11AC80SISO | Ant1    | 5210           | 30~5140         | 5138.98        | -41.22           | ≤-27        | PASS    |
|            |         |                | 5360~40000      | 24280.57       | -37.35           | ≤-27        | PASS    |

## Test Graphs

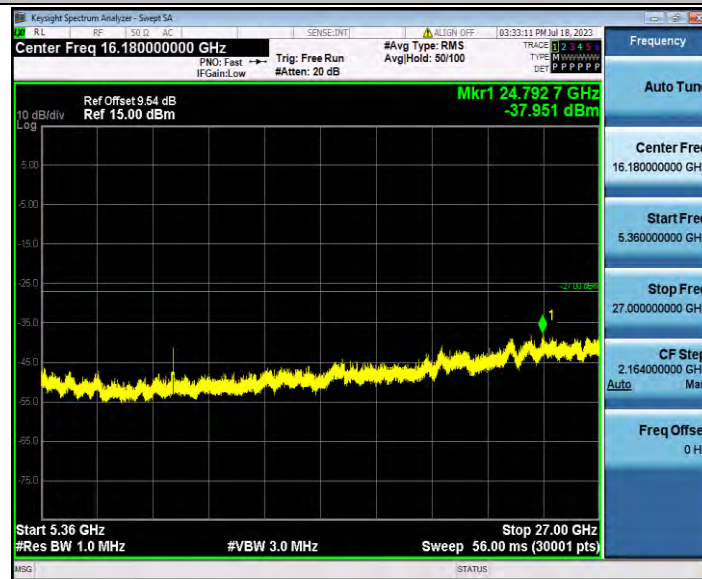




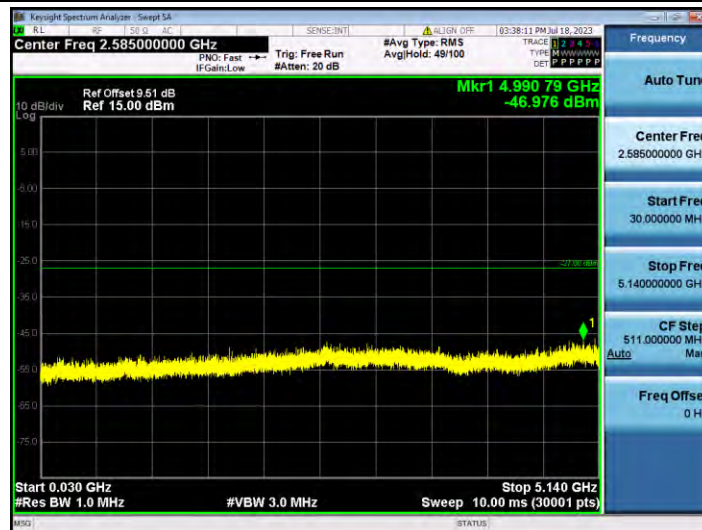




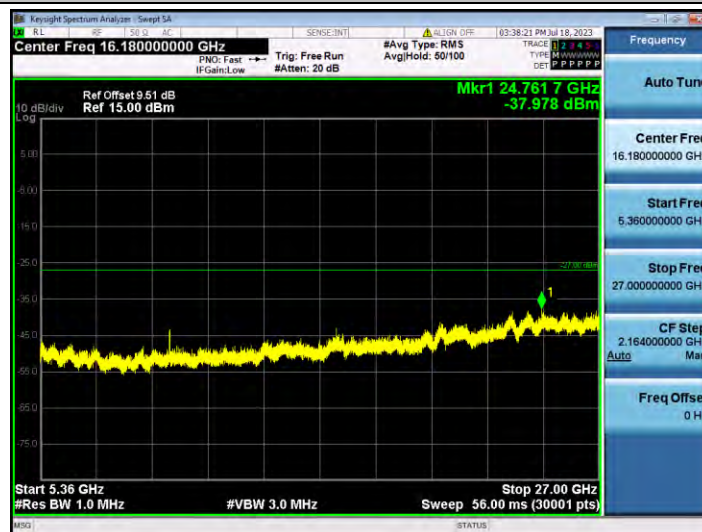
## 11A\_Ant1\_5240\_30~5140



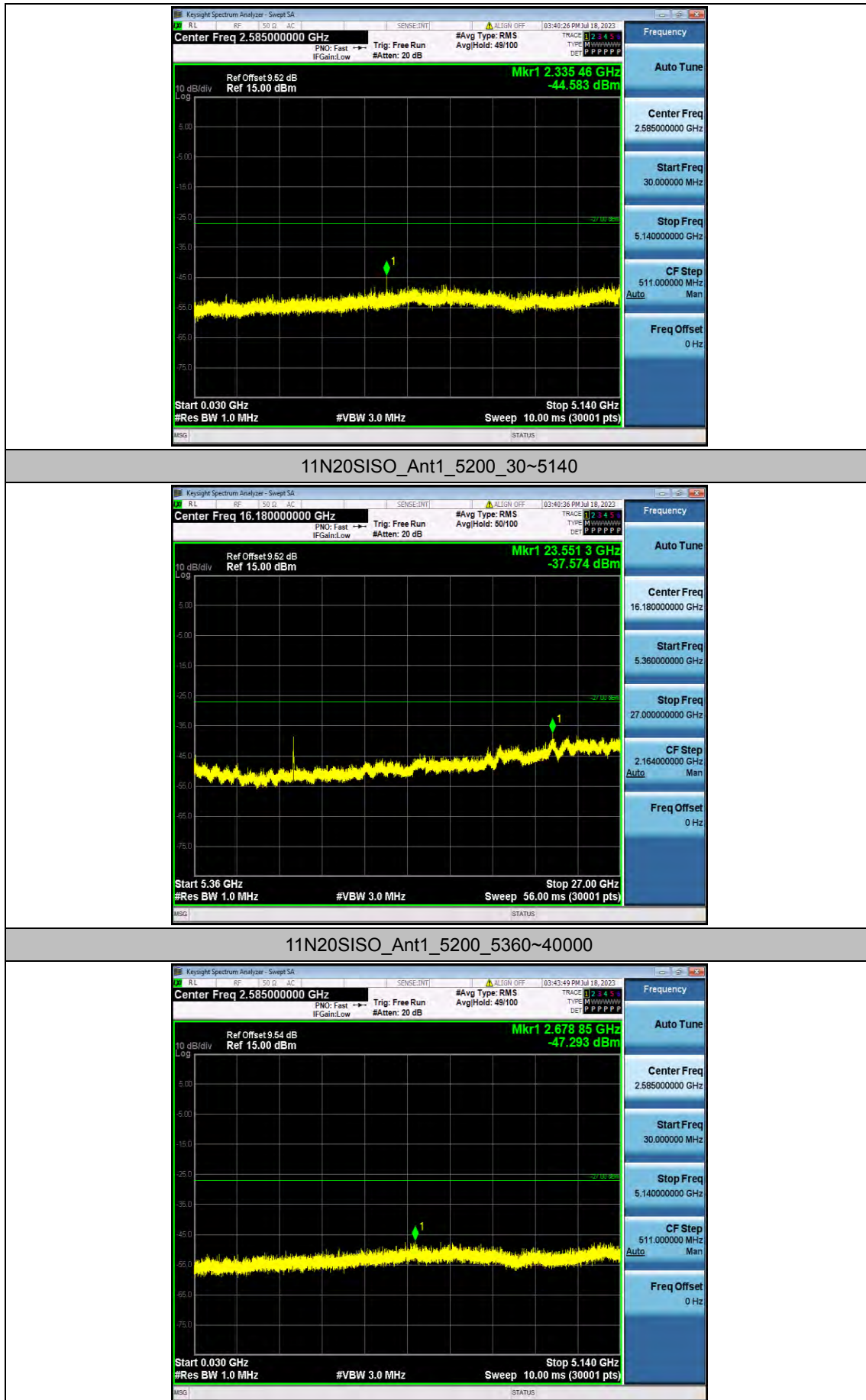
## 11A\_Ant1\_5240\_5360~40000



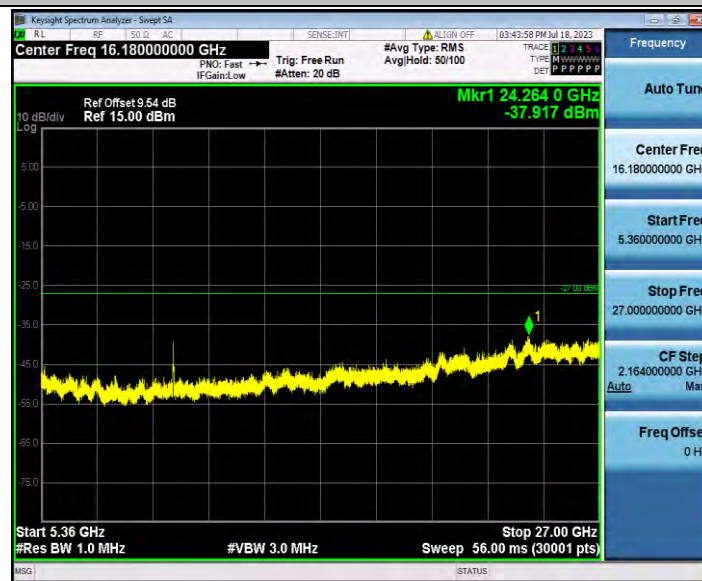
## 11N20SISO\_Ant1\_5180\_30~5140



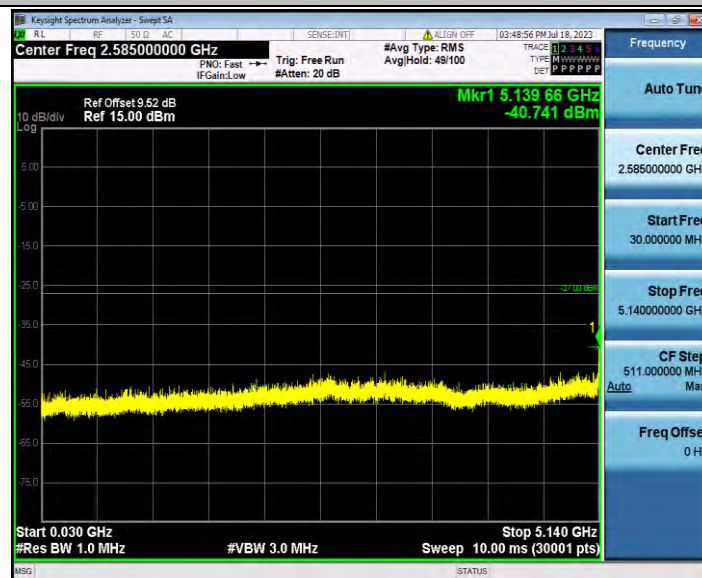
## 11N20SISO\_Ant1\_5180\_5360~40000



## 11N20SISO\_Ant1\_5240\_30~5140



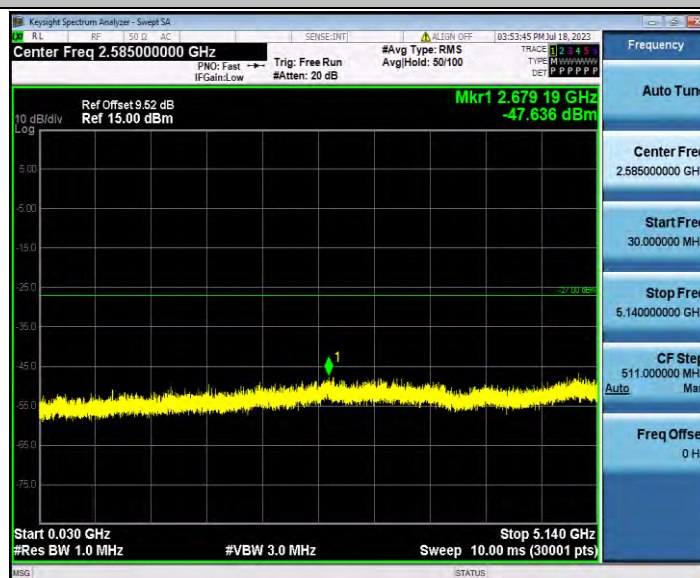
## 11N20SISO\_Ant1\_5240\_5360~40000



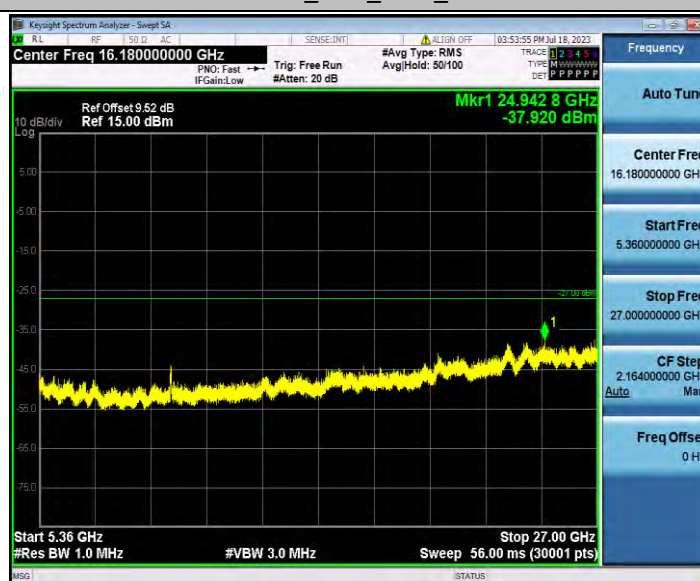
## 11N40SISO\_Ant1\_5190\_30~5140



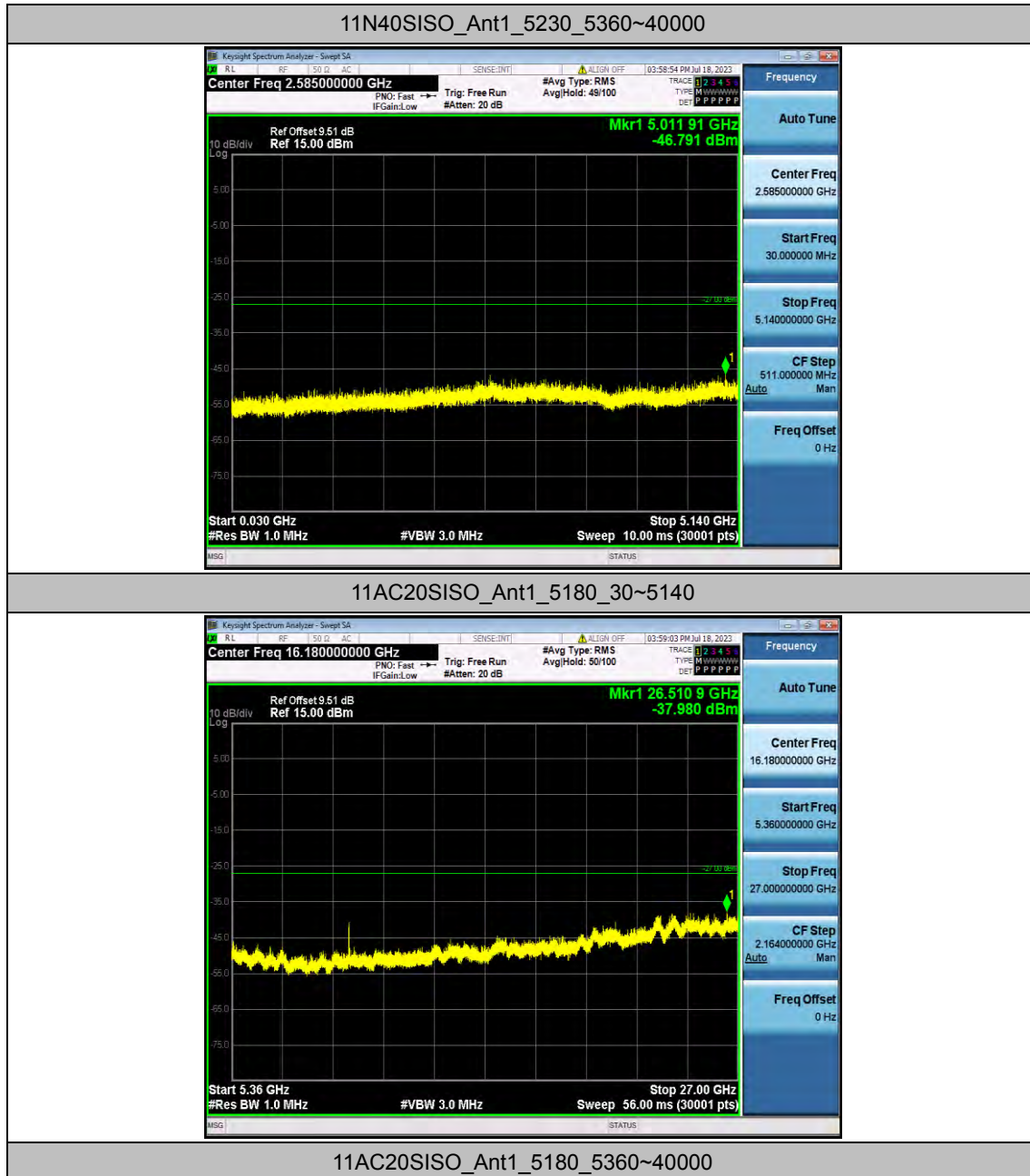
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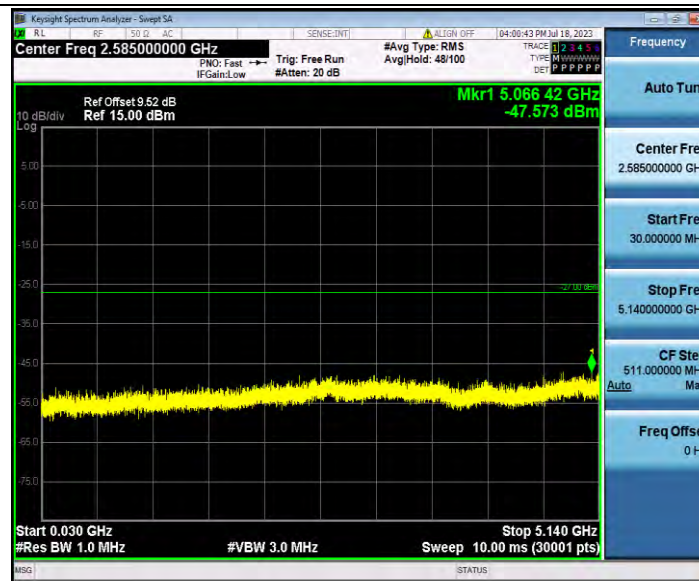
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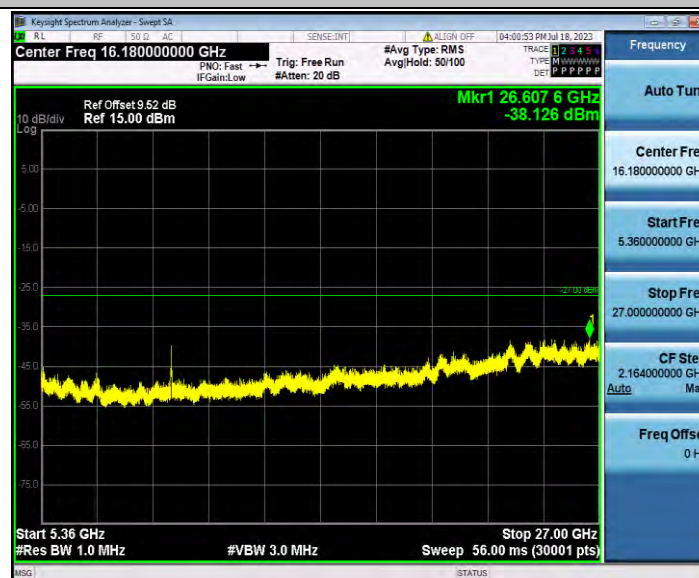




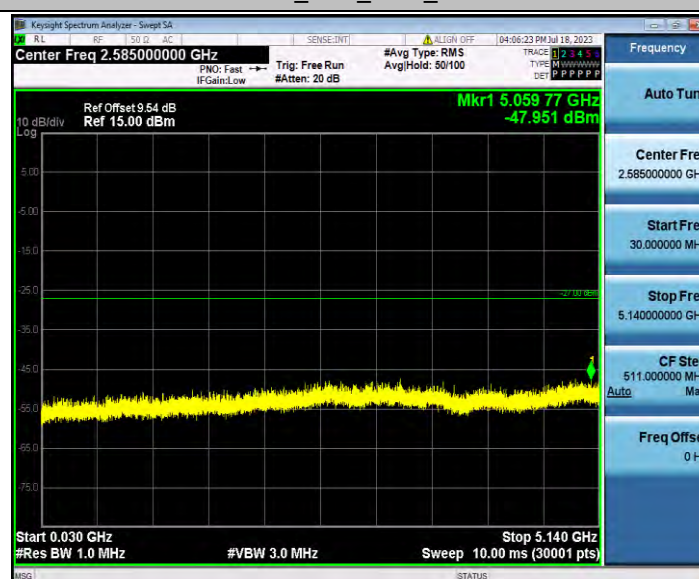




11AC20SISO\_Ant1\_5200\_30~5140



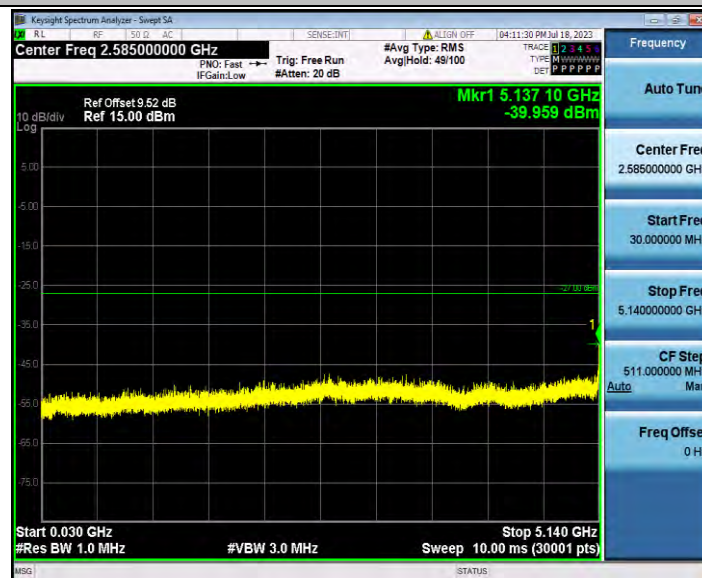
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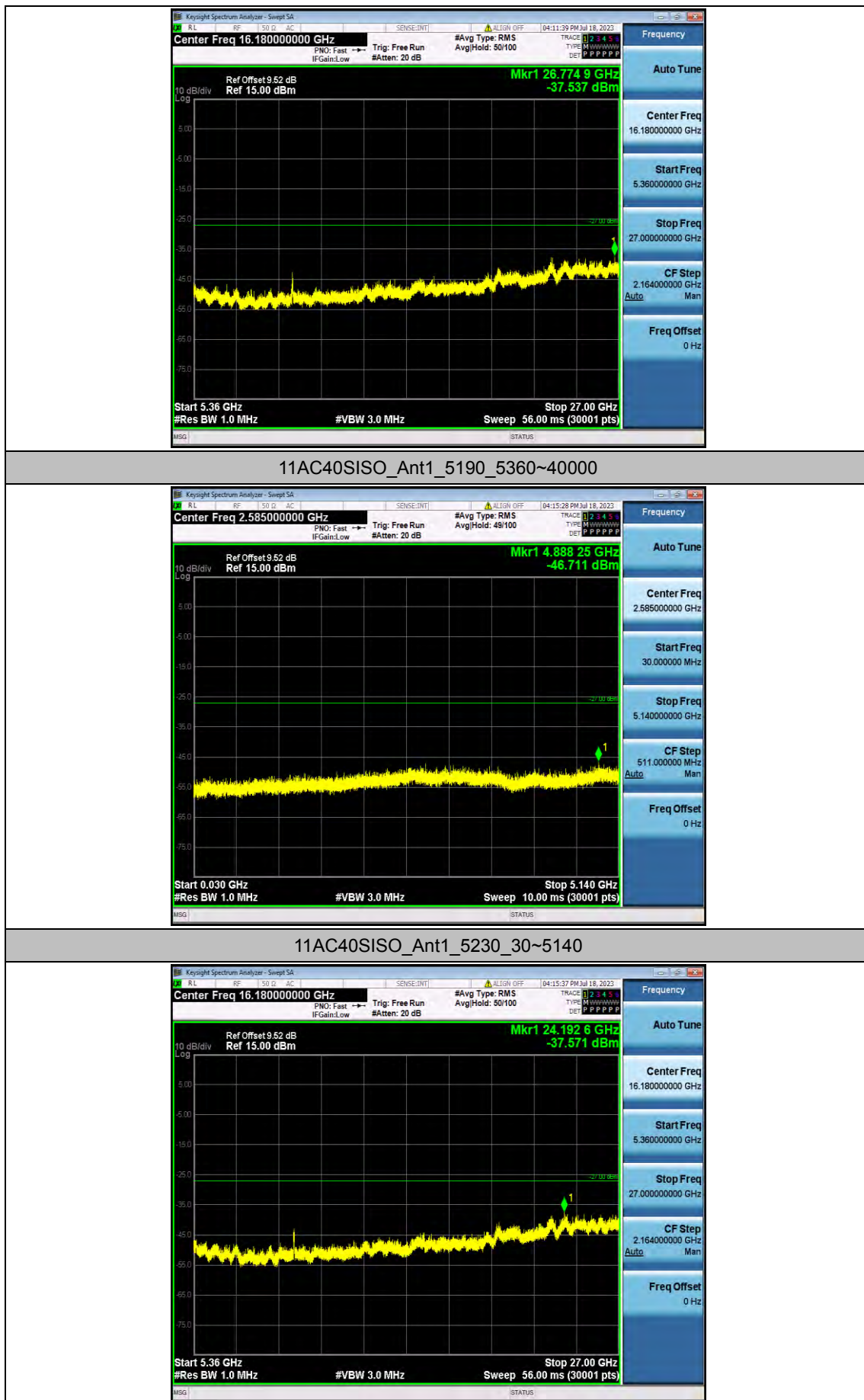
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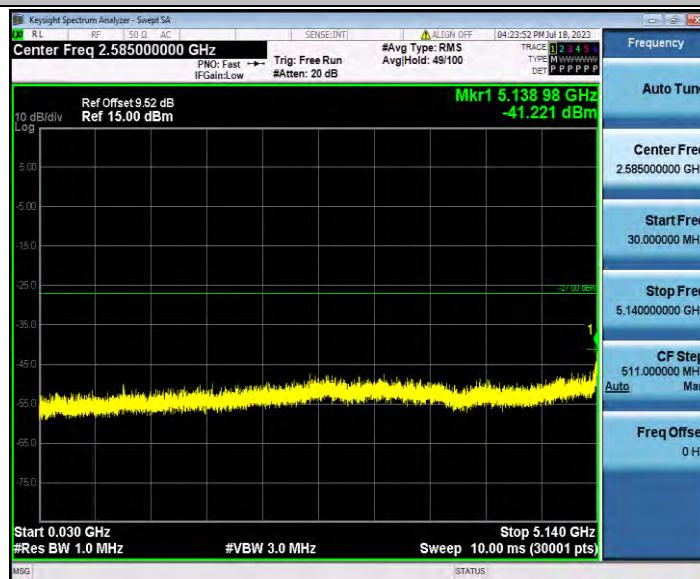
## 11AC20SISO\_Ant1\_5240\_5360~40000



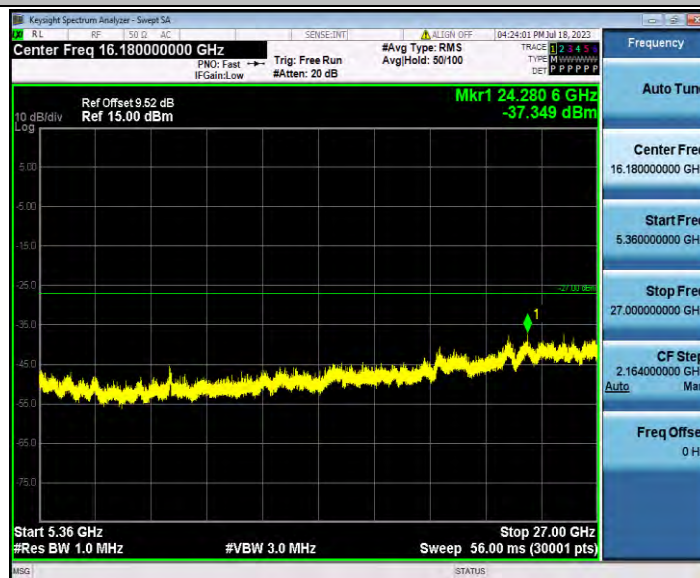
## 11AC40SISO\_Ant1\_5190\_30~5140



## 11AC40SISO\_Ant1\_5230\_5360~40000



## 11AC80SISO\_Ant1\_5210\_5360~40000



## 11AC80SISO\_Ant1\_5210\_5360~40000