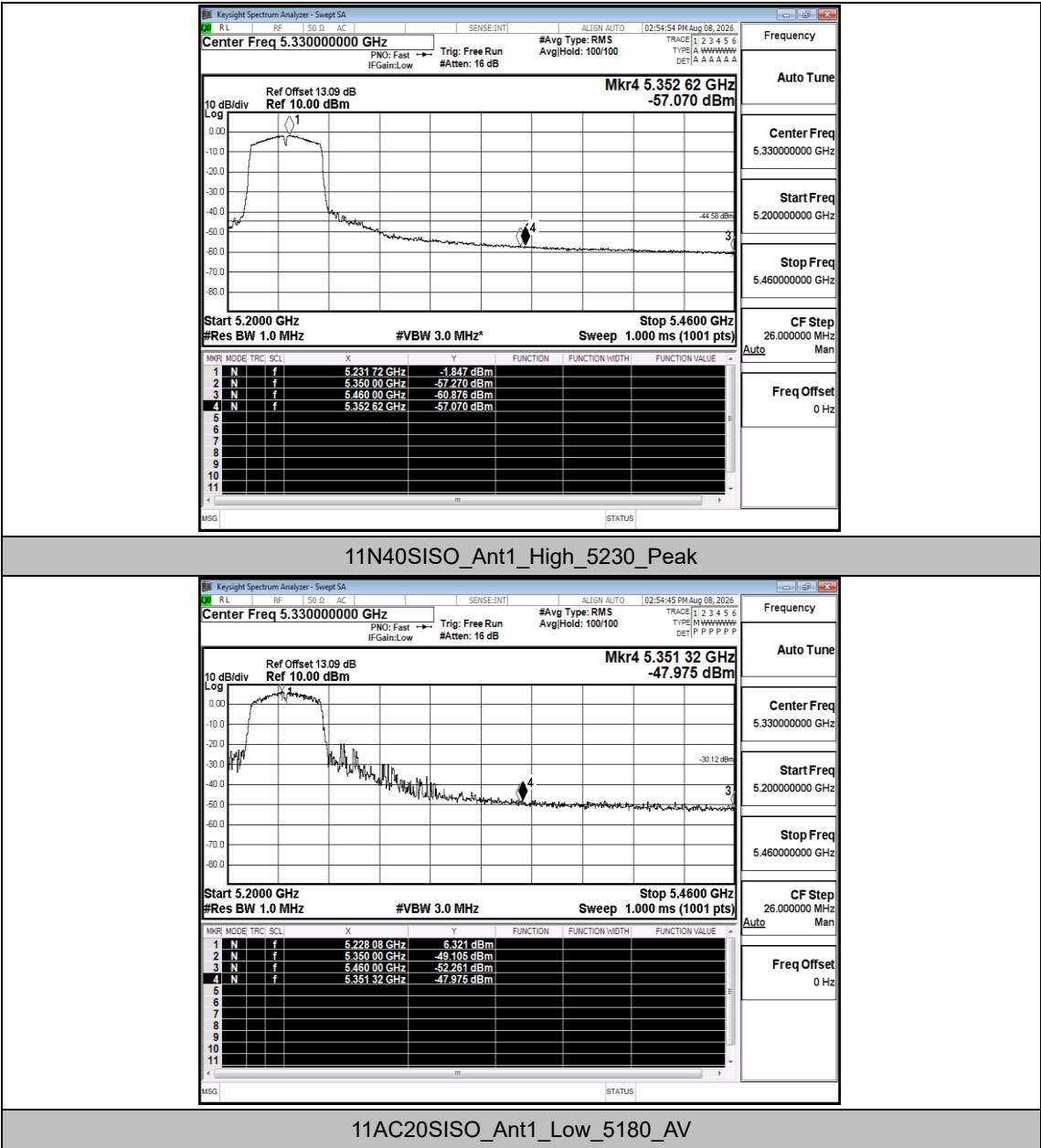
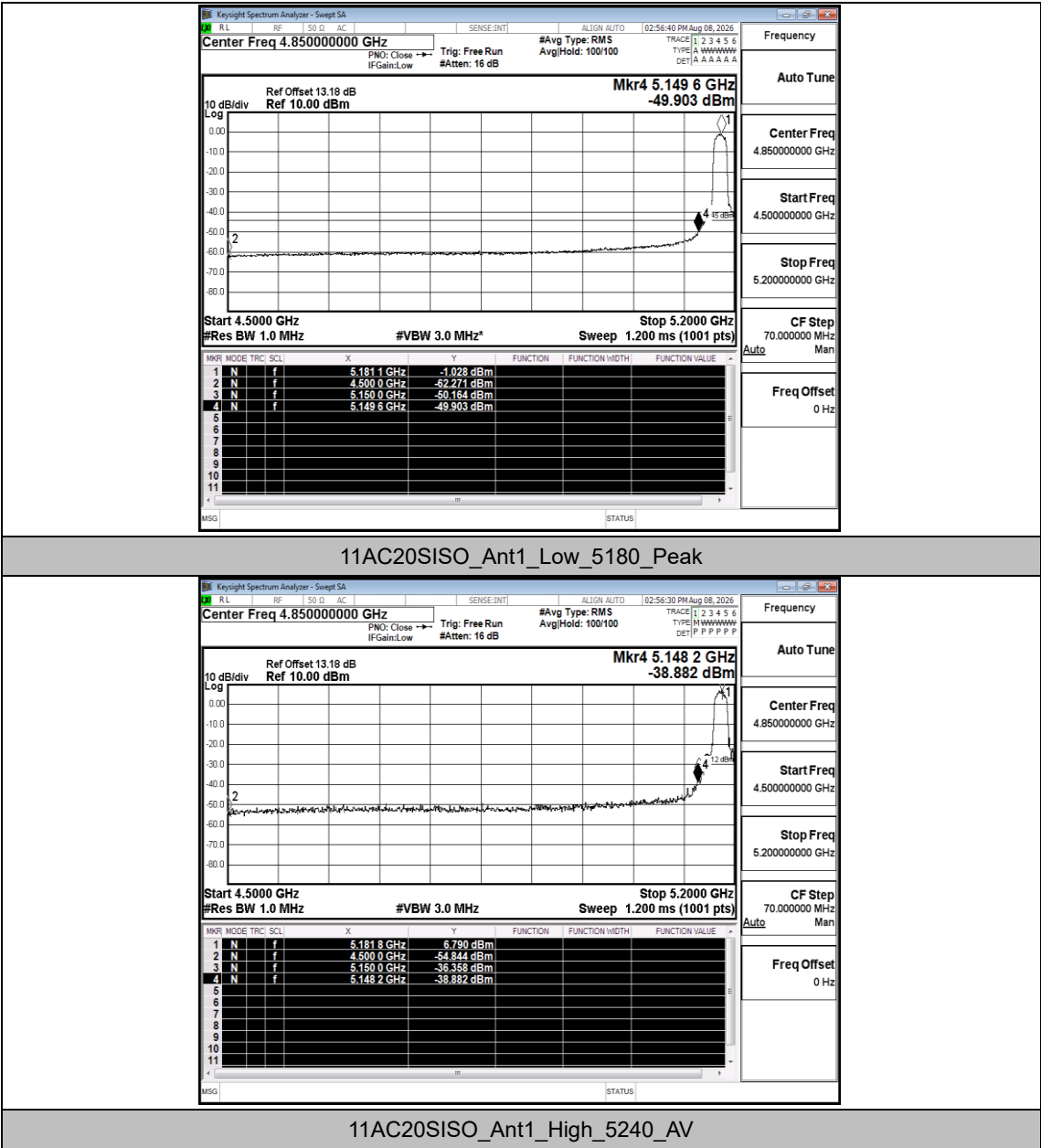
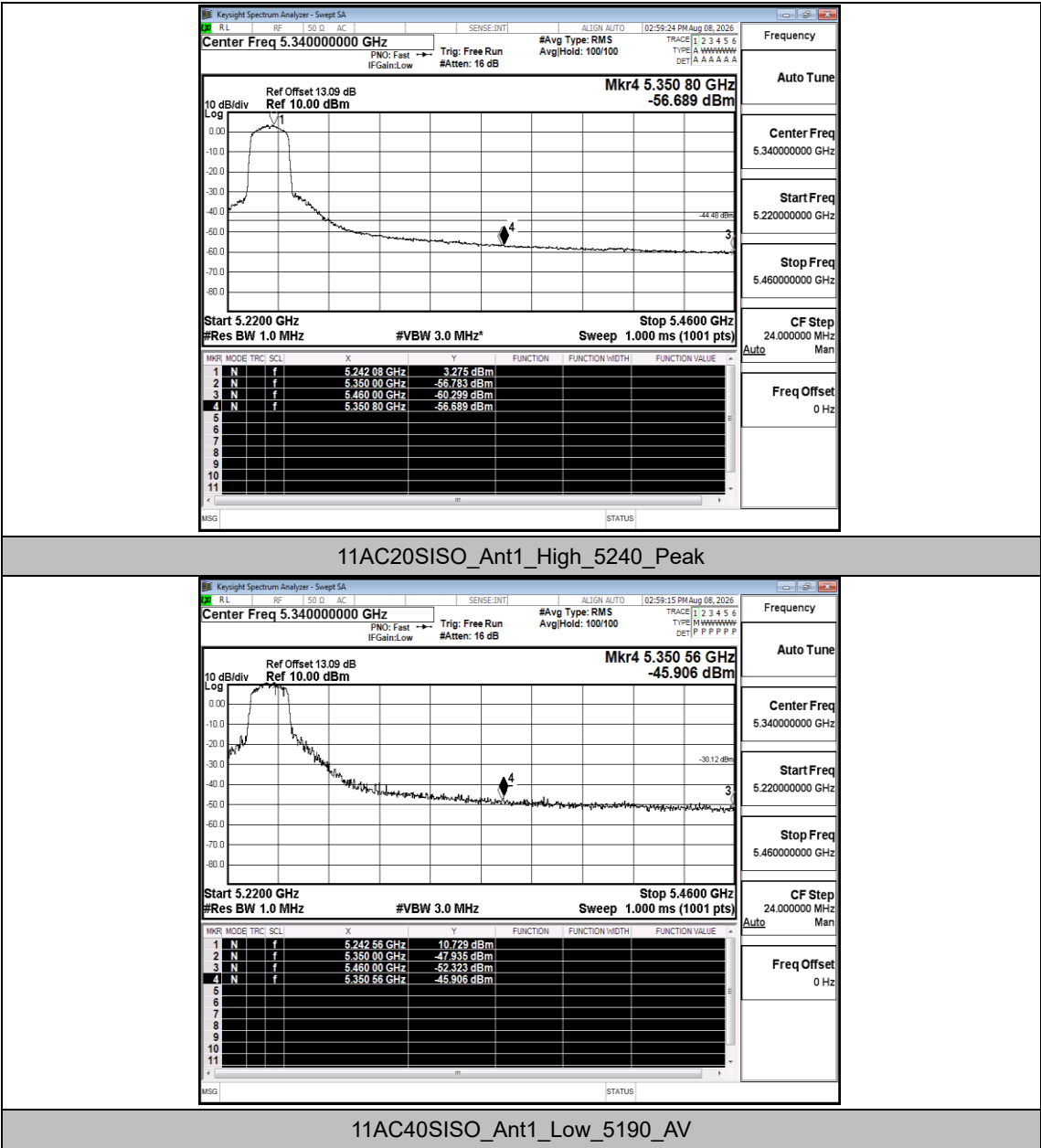
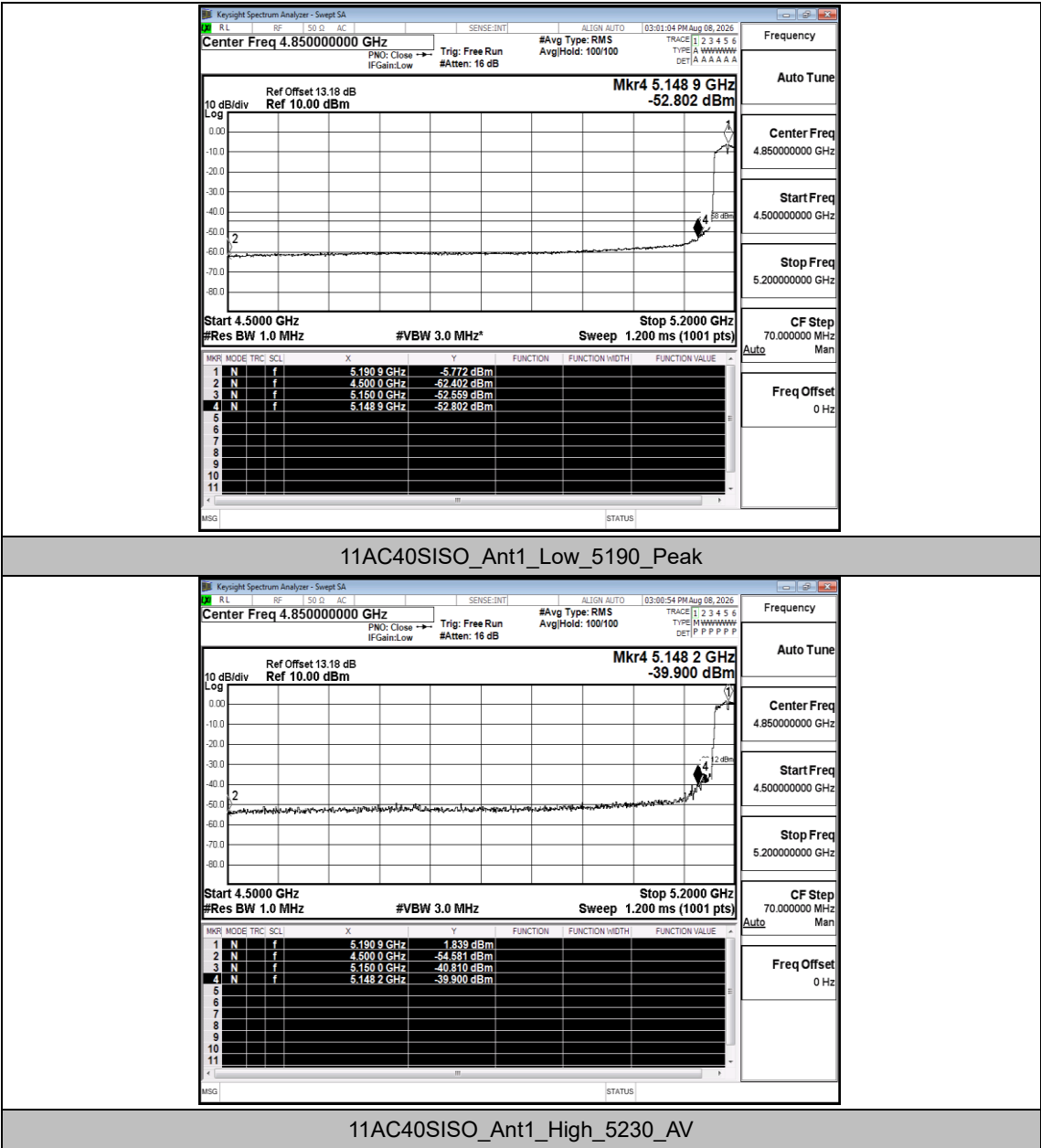
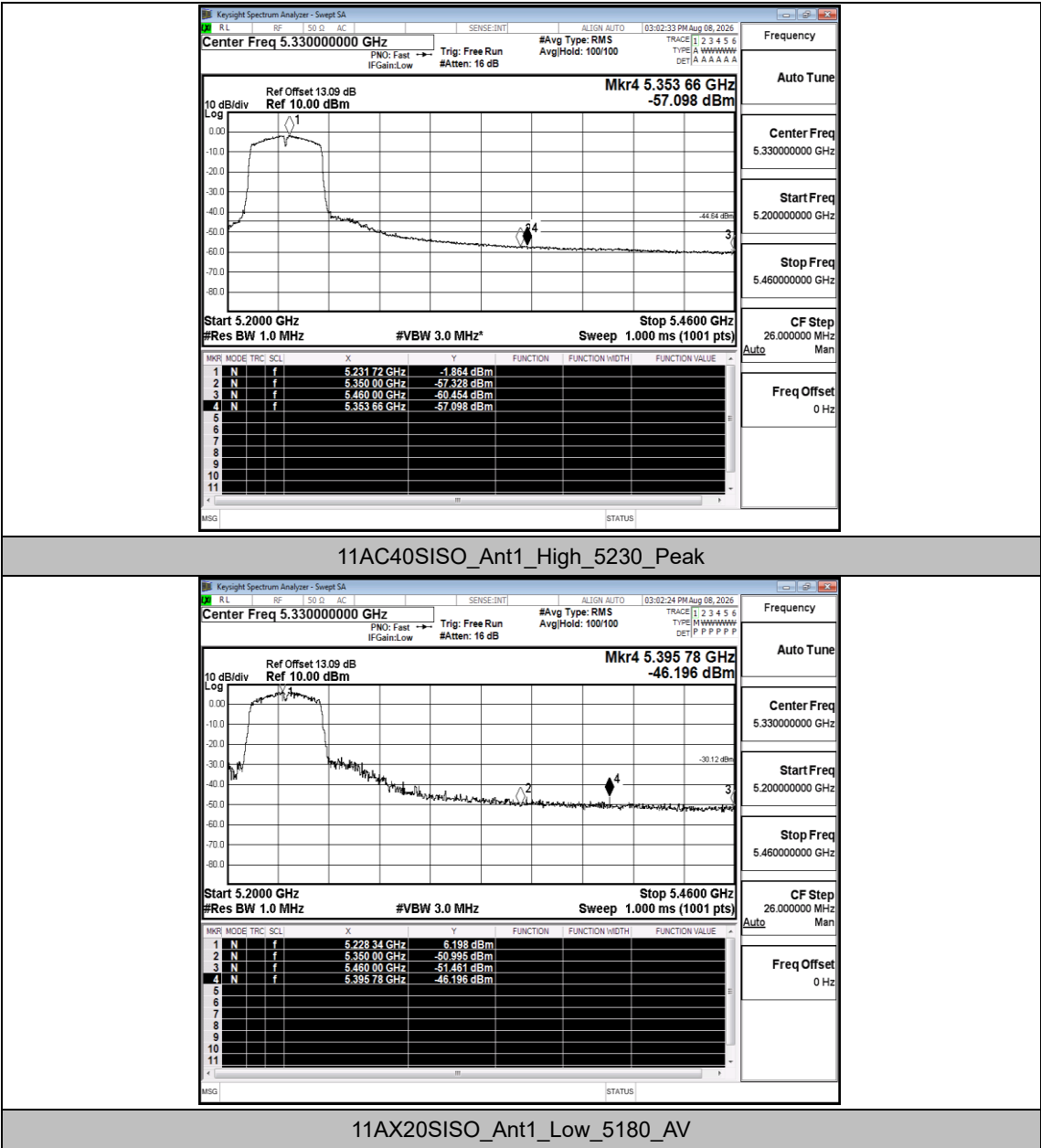


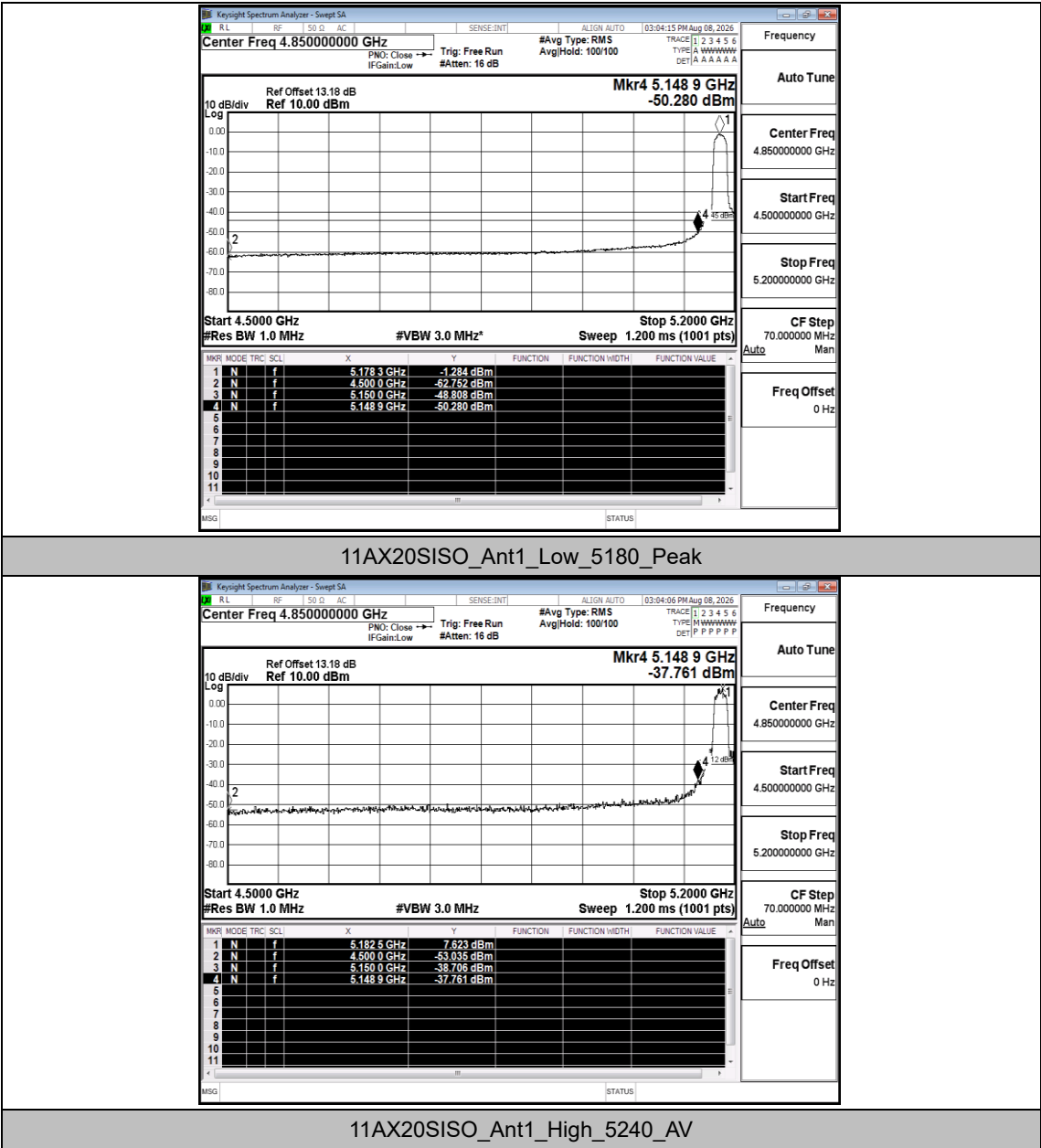


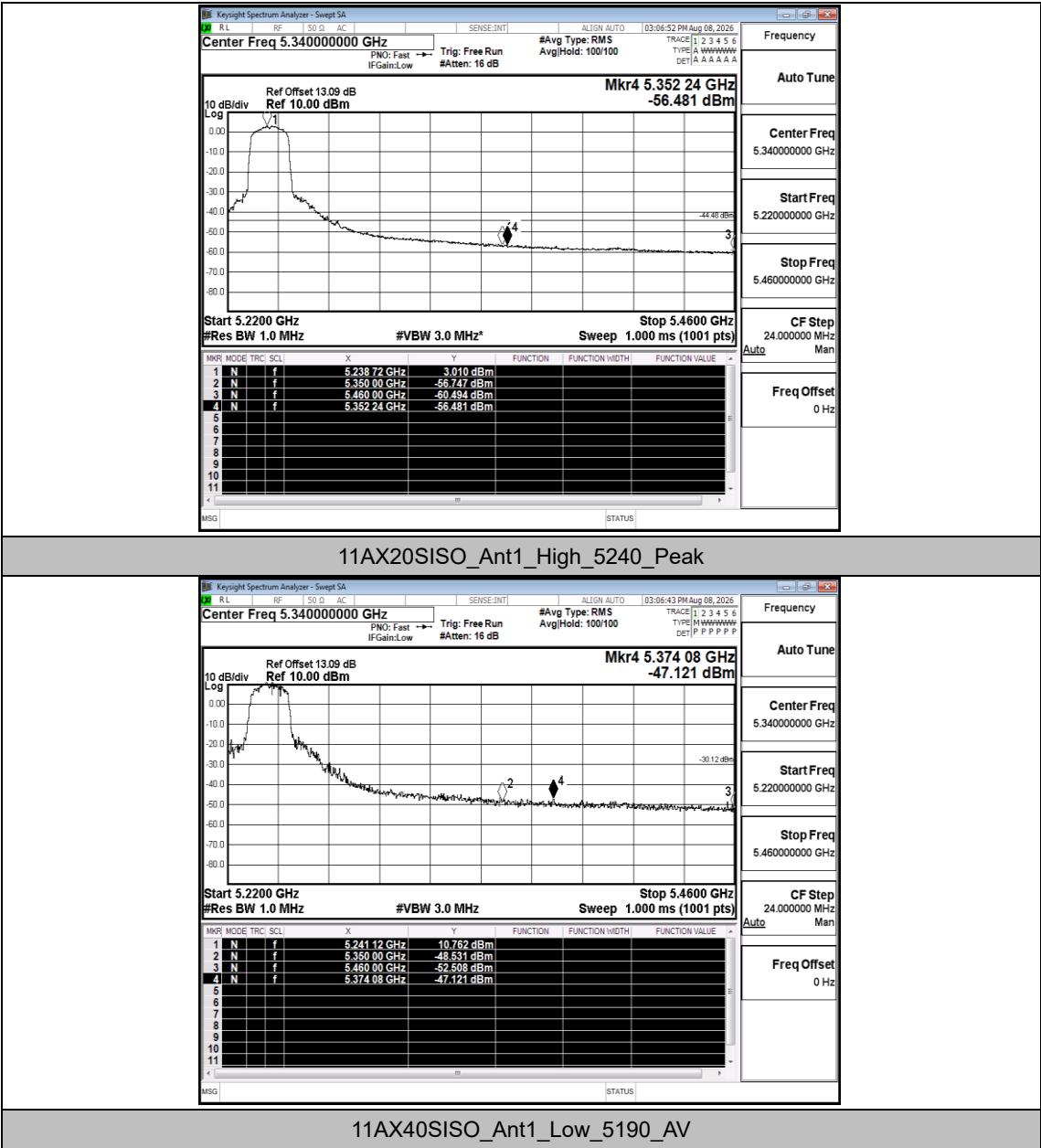


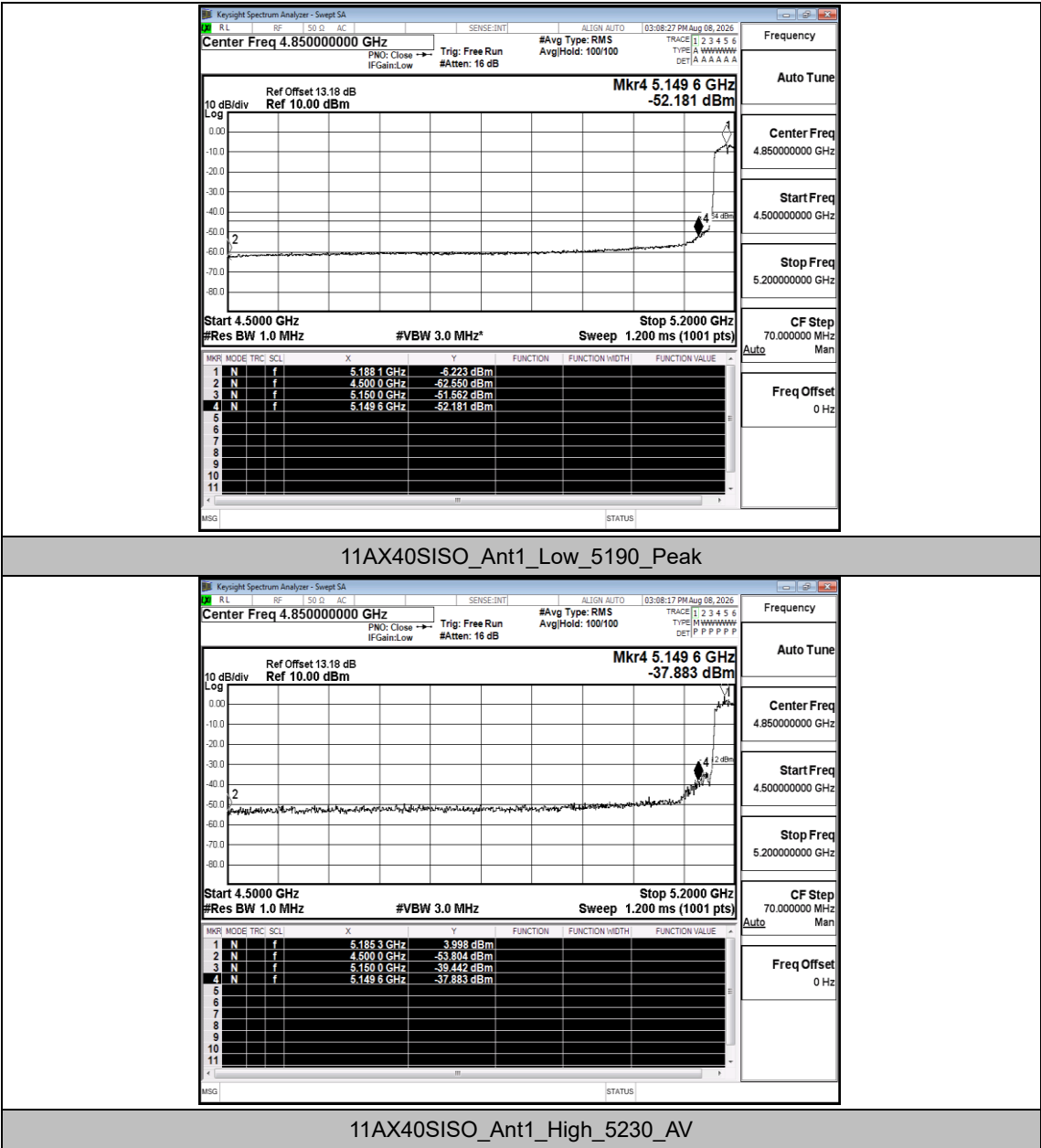


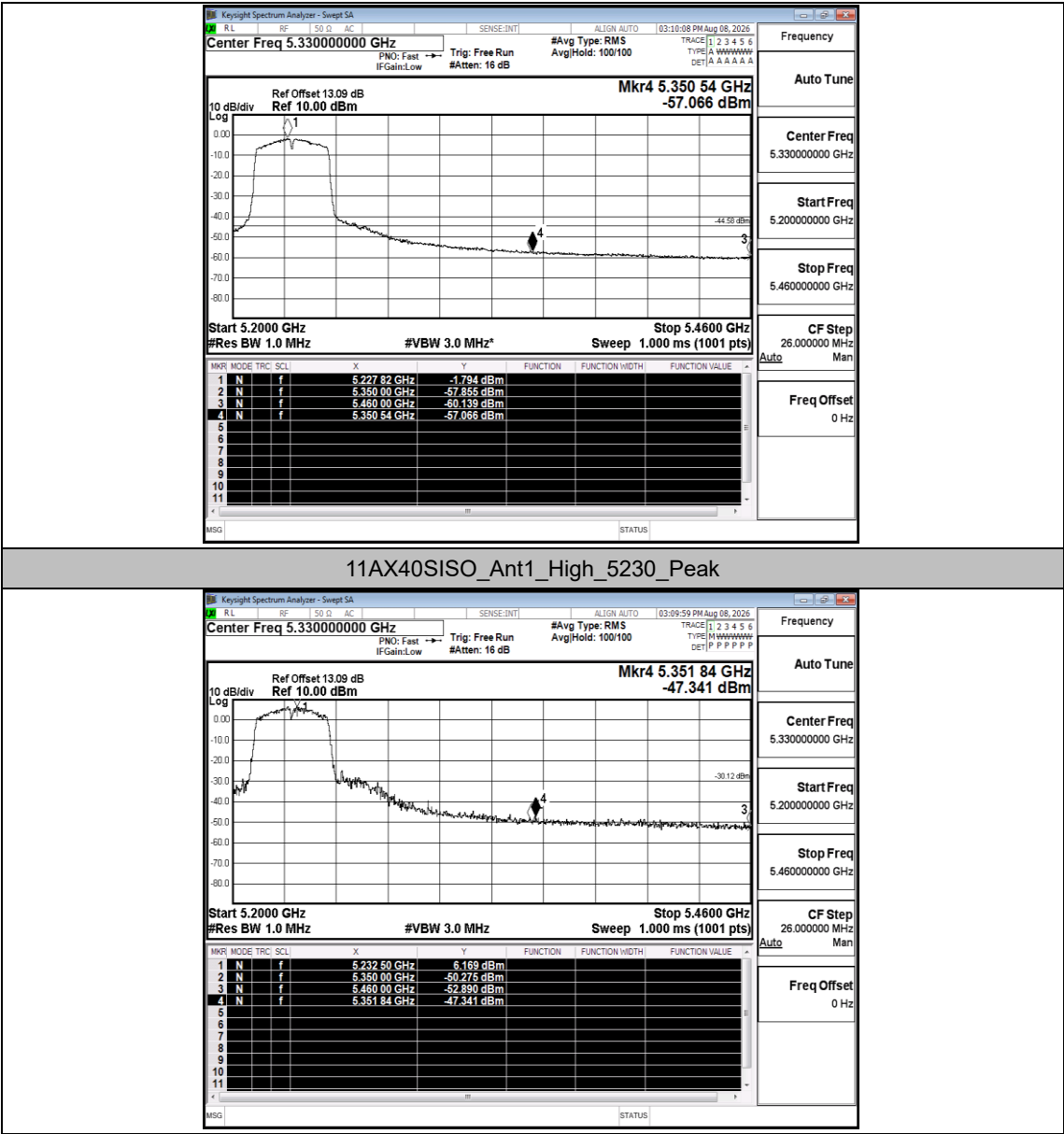












## D.5 Frequency Stability

### Test Result

| Voltage    |         |            |               |                  |                |                 |             |         |
|------------|---------|------------|---------------|------------------|----------------|-----------------|-------------|---------|
| TestMode   | Antenna | Freq (MHz) | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| 11A        | Ant1    | 5180       | NV            | NT               | -20000.00      | -3.861004       | 20          | PASS    |
|            |         |            | LV            | NT               | -20000.00      | -3.861004       | 20          | PASS    |
|            |         |            | HV            | NT               | -20000.00      | -3.861004       | 20          | PASS    |
|            |         | 5200       | NV            | NT               | -20000.00      | -3.846154       | 20          | PASS    |
|            |         |            | LV            | NT               | -20000.00      | -3.846154       | 20          | PASS    |
|            |         |            | HV            | NT               | 0.00           | 0.000000        | 20          | PASS    |
|            |         | 5240       | NV            | NT               | -20000.00      | -3.816794       | 20          | PASS    |
|            |         |            | LV            | NT               | -20000.00      | -3.816794       | 20          | PASS    |
|            |         |            | HV            | NT               | -40000.00      | -7.633588       | 20          | PASS    |
| 11N20SISO  | Ant1    | 5180       | NV            | NT               | -20000.00      | -3.861004       | 20          | PASS    |
|            |         |            | LV            | NT               | -60000.00      | -11.583012      | 20          | PASS    |
|            |         |            | HV            | NT               | 0.00           | 0.000000        | 20          | PASS    |
|            |         | 5200       | NV            | NT               | -60000.00      | -11.538462      | 20          | PASS    |
|            |         |            | LV            | NT               | -60000.00      | -11.538462      | 20          | PASS    |
|            |         |            | HV            | NT               | -40000.00      | -7.692308       | 20          | PASS    |
|            |         | 5240       | NV            | NT               | -20000.00      | -3.816794       | 20          | PASS    |
|            |         |            | LV            | NT               | -40000.00      | -7.633588       | 20          | PASS    |
|            |         |            | HV            | NT               | -20000.00      | -3.816794       | 20          | PASS    |
| 11N40SISO  | Ant1    | 5190       | NV            | NT               | -40000.00      | -7.707129       | 20          | PASS    |
|            |         |            | LV            | NT               | -40000.00      | -7.707129       | 20          | PASS    |
|            |         |            | HV            | NT               | -40000.00      | -7.707129       | 20          | PASS    |
|            |         | 5230       | NV            | NT               | -80000.00      | -15.296367      | 20          | PASS    |
|            |         |            | LV            | NT               | -80000.00      | -15.296367      | 20          | PASS    |
|            |         |            | HV            | NT               | 80000.00       | 15.296367       | 20          | PASS    |
| 11AC20SISO | Ant1    | 5180       | NV            | NT               | 0.00           | 0.000000        | 20          | PASS    |
|            |         |            | LV            | NT               | 20000.00       | 3.861004        | 20          | PASS    |
|            |         |            | HV            | NT               | -60000.00      | -11.583012      | 20          | PASS    |
|            |         | 5200       | NV            | NT               | 0.00           | 0.000000        | 20          | PASS    |
|            |         |            | LV            | NT               | -40000.00      | -7.692308       | 20          | PASS    |
|            |         |            | HV            | NT               | -60000.00      | -11.538462      | 20          | PASS    |
|            |         | 5240       | NV            | NT               | -80000.00      | -15.267176      | 20          | PASS    |
|            |         |            | LV            | NT               | -80000.00      | -15.267176      | 20          | PASS    |
|            |         |            | HV            | NT               | -20000.00      | -3.816794       | 20          | PASS    |
| 11AC40SISO | Ant1    | 5190       | NV            | NT               | 0.00           | 0.000000        | 20          | PASS    |

|            |      |      |    |    |           |            |    |      |
|------------|------|------|----|----|-----------|------------|----|------|
|            |      |      | LV | NT | -40000.00 | -7.707129  | 20 | PASS |
|            |      |      | HV | NT | -40000.00 | -7.707129  | 20 | PASS |
|            |      | 5230 | NV | NT | -40000.00 | -7.648184  | 20 | PASS |
|            |      |      | LV | NT | -80000.00 | -15.296367 | 20 | PASS |
|            |      |      | HV | NT | -80000.00 | -15.296367 | 20 | PASS |
| 11AX20SISO | Ant1 | 5180 | NV | NT | -80000.00 | -15.444015 | 20 | PASS |
|            |      |      | LV | NT | -20000.00 | -3.861004  | 20 | PASS |
|            |      |      | HV | NT | -80000.00 | -15.296367 | 20 | PASS |
|            |      | 5200 | NV | NT | -80000.00 | -15.296367 | 20 | PASS |
|            |      |      | LV | NT | -20000.00 | -3.846154  | 20 | PASS |
|            |      |      | HV | NT | -40000.00 | -7.692308  | 20 | PASS |
|            |      | 5240 | NV | NT | -40000.00 | -7.692308  | 20 | PASS |
|            |      |      | LV | NT | -20000.00 | -3.816794  | 20 | PASS |
|            |      |      | HV | NT | 60000.00  | 11.450382  | 20 | PASS |
| 11AX40SISO | Ant1 | 5190 | NV | NT | -80000.00 | -15.414258 | 20 | PASS |
|            |      |      | LV | NT | -40000.00 | -7.707129  | 20 | PASS |
|            |      |      | HV | NT | 0.00      | 0.000000   | 20 | PASS |
|            |      | 5230 | NV | NT | -40000.00 | -7.648184  | 20 | PASS |
|            |      |      | LV | NT | 0.00      | 0.000000   | 20 | PASS |
|            |      |      | HV | NT | -40000.00 | -7.648184  | 20 | PASS |

| Temperature   |         |            |               |                  |                |                 |             |         |
|---------------|---------|------------|---------------|------------------|----------------|-----------------|-------------|---------|
| TestMode      | Antenna | Freq (MHz) | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| 11A           | Ant1    | 5180       | NV            | -30              | -40000.00      | -7.722008       | 20          | PASS    |
|               |         |            | NV            | -20              | -40000.00      | -7.722008       | 20          | PASS    |
|               |         |            | NV            | -10              | -40000.00      | -7.722008       | 20          | PASS    |
|               |         |            | NV            | 0                | -20000.00      | -3.861004       | 20          | PASS    |
|               |         |            | NV            | 10               | -60000.00      | -11.583012      | 20          | PASS    |
|               |         |            | NV            | 20               | -60000.00      | -11.583012      | 20          | PASS    |
|               |         |            | NV            | 30               | -20000.00      | -3.861004       | 20          | PASS    |
|               |         |            | NV            | 40               | -20000.00      | -3.861004       | 20          | PASS    |
|               |         |            | NV            | 50               | -60000.00      | -11.583012      | 20          | PASS    |
|               |         | 5200       | NV            | -30              | 0.00           | 0.000000        | 20          | PASS    |
|               |         |            | NV            | -20              | 20000.00       | 3.846154        | 20          | PASS    |
|               |         |            | NV            | -10              | 0.00           | 0.000000        | 20          | PASS    |
|               |         |            | NV            | 0                | -40000.00      | -7.692308       | 20          | PASS    |
|               |         |            | NV            | 10               | -20000.00      | -3.846154       | 20          | PASS    |
|               |         |            | NV            | 20               | -20000.00      | -3.846154       | 20          | PASS    |
|               |         |            | NV            | 30               | 20000.00       | 3.846154        | 20          | PASS    |
|               |         |            | NV            | 40               | -40000.00      | -7.692308       | 20          | PASS    |
|               |         |            | NV            | 50               | -40000.00      | -7.692308       | 20          | PASS    |
|               |         | 5240       | NV            | -30              | -40000.00      | -7.633588       | 20          | PASS    |
|               |         |            | NV            | -20              | -40000.00      | -7.633588       | 20          | PASS    |
|               |         |            | NV            | -10              | 0.00           | 0.000000        | 20          | PASS    |
|               |         |            | NV            | 0                | -60000.00      | -11.450382      | 20          | PASS    |
|               |         |            | NV            | 10               | -20000.00      | -3.816794       | 20          | PASS    |
|               |         |            | NV            | 20               | 0.00           | 0.000000        | 20          | PASS    |
|               |         |            | NV            | 30               | -60000.00      | -11.450382      | 20          | PASS    |
|               |         |            | NV            | 40               | -40000.00      | -7.633588       | 20          | PASS    |
|               |         |            | NV            | 50               | -40000.00      | -7.633588       | 20          | PASS    |
| 11N20SI<br>SO | Ant1    | 5180       | NV            | -30              | 0.00           | 0.000000        | 20          | PASS    |
|               |         |            | NV            | -20              | 20000.00       | 3.861004        | 20          | PASS    |
|               |         |            | NV            | -10              | -60000.00      | -11.583012      | 20          | PASS    |
|               |         |            | NV            | 0                | 20000.00       | 3.861004        | 20          | PASS    |
|               |         |            | NV            | 10               | 0.00           | 0.000000        | 20          | PASS    |
|               |         |            | NV            | 20               | 40000.00       | 7.722008        | 20          | PASS    |
|               |         |            | NV            | 30               | 20000.00       | 3.861004        | 20          | PASS    |
|               |         |            | NV            | 40               | -40000.00      | -7.722008       | 20          | PASS    |
|               |         |            | NV            | 50               | -80000.00      | -15.444015      | 20          | PASS    |
|               |         | 5200       | NV            | -30              | 40000.00       | 7.692308        | 20          | PASS    |
|               |         |            | NV            | -20              | -20000.00      | -3.846154       | 20          | PASS    |

|                |      |      |    |     |           |            |    |      |
|----------------|------|------|----|-----|-----------|------------|----|------|
|                |      |      | NV | -10 | -40000.00 | -7.692308  | 20 | PASS |
|                |      |      | NV | 0   | -40000.00 | -7.692308  | 20 | PASS |
|                |      |      | NV | 10  | -20000.00 | -3.846154  | 20 | PASS |
|                |      |      | NV | 20  | -20000.00 | -3.846154  | 20 | PASS |
|                |      |      | NV | 30  | 20000.00  | 3.846154   | 20 | PASS |
|                |      |      | NV | 40  | 0.00      | 0.000000   | 20 | PASS |
|                |      |      | NV | 50  | -60000.00 | -11.538462 | 20 | PASS |
|                |      | 5240 | NV | -30 | -80000.00 | -15.267176 | 20 | PASS |
|                |      |      | NV | -20 | 0.00      | 0.000000   | 20 | PASS |
|                |      |      | NV | -10 | -40000.00 | -7.633588  | 20 | PASS |
|                |      |      | NV | 0   | 0.00      | 0.000000   | 20 | PASS |
|                |      |      | NV | 10  | 20000.00  | 3.816794   | 20 | PASS |
|                |      |      | NV | 20  | 20000.00  | 3.816794   | 20 | PASS |
|                |      |      | NV | 30  | 0.00      | 0.000000   | 20 | PASS |
|                |      |      | NV | 40  | -20000.00 | -3.816794  | 20 | PASS |
|                |      |      | NV | 50  | -60000.00 | -11.450382 | 20 | PASS |
| 11N40SI<br>SO  | Ant1 | 5190 | NV | -30 | 0.00      | 0.000000   | 20 | PASS |
|                |      |      | NV | -20 | 80000.00  | 15.414258  | 20 | PASS |
|                |      |      | NV | -10 | -80000.00 | -15.414258 | 20 | PASS |
|                |      |      | NV | 0   | 0.00      | 0.000000   | 20 | PASS |
|                |      |      | NV | 10  | 80000.00  | 15.414258  | 20 | PASS |
|                |      |      | NV | 20  | 80000.00  | 15.414258  | 20 | PASS |
|                |      |      | NV | 30  | 80000.00  | 15.414258  | 20 | PASS |
|                |      |      | NV | 40  | 80000.00  | 15.414258  | 20 | PASS |
|                |      |      | NV | 50  | 80000.00  | 15.414258  | 20 | PASS |
|                |      | 5230 | NV | -30 | 40000.00  | 7.648184   | 20 | PASS |
|                |      |      | NV | -20 | 0.00      | 0.000000   | 20 | PASS |
|                |      |      | NV | -10 | -40000.00 | -7.648184  | 20 | PASS |
|                |      |      | NV | 0   | 40000.00  | 7.648184   | 20 | PASS |
|                |      |      | NV | 10  | 0.00      | 0.000000   | 20 | PASS |
|                |      |      | NV | 20  | -40000.00 | -7.648184  | 20 | PASS |
|                |      |      | NV | 30  | -40000.00 | -7.648184  | 20 | PASS |
|                |      |      | NV | 40  | -40000.00 | -7.648184  | 20 | PASS |
|                |      |      | NV | 50  | -40000.00 | -7.648184  | 20 | PASS |
| 11AC20S<br>ISO | Ant1 | 5180 | NV | -30 | -40000.00 | -7.722008  | 20 | PASS |
|                |      |      | NV | -20 | -20000.00 | -3.861004  | 20 | PASS |
|                |      |      | NV | -10 | -20000.00 | -3.861004  | 20 | PASS |
|                |      |      | NV | 0   | 0.00      | 0.000000   | 20 | PASS |
|                |      |      | NV | 10  | 20000.00  | 3.861004   | 20 | PASS |
|                |      |      | NV | 20  | 0.00      | 0.000000   | 20 | PASS |
|                |      |      | NV | 30  | 20000.00  | 3.861004   | 20 | PASS |

|                |      |      |    |     |            |            |    |      |
|----------------|------|------|----|-----|------------|------------|----|------|
|                |      |      | NV | 40  | -60000.00  | -11.583012 | 20 | PASS |
|                |      |      | NV | 50  | -40000.00  | -7.722008  | 20 | PASS |
|                |      | 5200 | NV | -30 | -40000.00  | -7.692308  | 20 | PASS |
|                |      |      | NV | -20 | 0.00       | 0.000000   | 20 | PASS |
|                |      |      | NV | -10 | 20000.00   | 3.846154   | 20 | PASS |
|                |      |      | NV | 0   | 0.00       | 0.000000   | 20 | PASS |
|                |      |      | NV | 10  | -60000.00  | -11.538462 | 20 | PASS |
|                |      |      | NV | 20  | -40000.00  | -7.692308  | 20 | PASS |
|                |      |      | NV | 30  | -60000.00  | -11.538462 | 20 | PASS |
|                |      |      | NV | 40  | 40000.00   | 7.692308   | 20 | PASS |
|                |      |      | NV | 50  | 60000.00   | 11.538462  | 20 | PASS |
|                |      | 5240 | NV | -30 | -100000.00 | -19.083969 | 20 | PASS |
|                |      |      | NV | -20 | 0.00       | 0.000000   | 20 | PASS |
|                |      |      | NV | -10 | 0.00       | 0.000000   | 20 | PASS |
|                |      |      | NV | 0   | -40000.00  | -7.633588  | 20 | PASS |
|                |      |      | NV | 10  | -60000.00  | -11.450382 | 20 | PASS |
|                |      |      | NV | 20  | 100000.00  | 19.083969  | 20 | PASS |
|                |      |      | NV | 30  | -40000.00  | -7.633588  | 20 | PASS |
|                |      |      | NV | 40  | -80000.00  | -15.267176 | 20 | PASS |
|                |      |      | NV | 50  | -60000.00  | -11.450382 | 20 | PASS |
| 11AC40S<br>ISO | Ant1 | 5190 | NV | -30 | 0.00       | 0.000000   | 20 | PASS |
|                |      |      | NV | -20 | -40000.00  | -7.707129  | 20 | PASS |
|                |      |      | NV | -10 | 40000.00   | 7.707129   | 20 | PASS |
|                |      |      | NV | 0   | 0.00       | 0.000000   | 20 | PASS |
|                |      |      | NV | 10  | -80000.00  | -15.414258 | 20 | PASS |
|                |      |      | NV | 20  | -80000.00  | -15.414258 | 20 | PASS |
|                |      |      | NV | 30  | -80000.00  | -15.414258 | 20 | PASS |
|                |      |      | NV | 40  | 0.00       | 0.000000   | 20 | PASS |
|                |      |      | NV | 50  | -40000.00  | -7.707129  | 20 | PASS |
|                |      | 5230 | NV | -30 | -40000.00  | -7.707129  | 20 | PASS |
|                |      |      | NV | -20 | -40000.00  | -7.707129  | 20 | PASS |
|                |      |      | NV | -10 | 0.00       | 0.000000   | 20 | PASS |
|                |      |      | NV | 0   | 40000.00   | 7.648184   | 20 | PASS |
|                |      |      | NV | 10  | -40000.00  | -7.648184  | 20 | PASS |
|                |      |      | NV | 20  | 0.00       | 0.000000   | 20 | PASS |
|                |      |      | NV | 30  | -40000.00  | -7.648184  | 20 | PASS |
|                |      |      | NV | 40  | 0.00       | 0.000000   | 20 | PASS |
|                |      |      | NV | 50  | -40000.00  | -7.648184  | 20 | PASS |
| 11AX20SI<br>SO | Ant1 | 5180 | NV | -30 | -20000.00  | -3.861004  | 20 | PASS |
|                |      |      | NV | -20 | -40000.00  | -7.722008  | 20 | PASS |
|                |      |      | NV | -10 | -40000.00  | -7.722008  | 20 | PASS |

|                |      |      |    |     |            |            |    |      |
|----------------|------|------|----|-----|------------|------------|----|------|
|                |      |      | NV | 0   | -20000.00  | -3.861004  | 20 | PASS |
|                |      |      | NV | 10  | -40000.00  | -7.722008  | 20 | PASS |
|                |      |      | NV | 20  | 40000.00   | 7.722008   | 20 | PASS |
|                |      |      | NV | 30  | -20000.00  | -3.861004  | 20 | PASS |
|                |      |      | NV | 40  | -40000.00  | -7.722008  | 20 | PASS |
|                |      |      | NV | 50  | -40000.00  | -7.722008  | 20 | PASS |
|                |      | 5200 | NV | -30 | 80000.00   | 15.384615  | 20 | PASS |
|                |      |      | NV | -20 | 40000.00   | 7.692308   | 20 | PASS |
|                |      |      | NV | -10 | -20000.00  | -3.846154  | 20 | PASS |
|                |      |      | NV | 0   | 40000.00   | 7.692308   | 20 | PASS |
|                |      |      | NV | 10  | 0.00       | 0.000000   | 20 | PASS |
|                |      |      | NV | 20  | -60000.00  | -11.538462 | 20 | PASS |
|                |      |      | NV | 30  | -20000.00  | -3.846154  | 20 | PASS |
|                |      |      | NV | 40  | -20000.00  | -3.846154  | 20 | PASS |
|                |      |      | NV | 50  | 100000.00  | 19.230769  | 20 | PASS |
|                |      | 5240 | NV | -30 | 0.00       | 0.000000   | 20 | PASS |
|                |      |      | NV | -20 | 0.00       | 0.000000   | 20 | PASS |
|                |      |      | NV | -10 | -100000.00 | -19.083969 | 20 | PASS |
|                |      |      | NV | 0   | -60000.00  | -11.450382 | 20 | PASS |
|                |      |      | NV | 10  | -20000.00  | -3.816794  | 20 | PASS |
|                |      |      | NV | 20  | -80000.00  | -15.267176 | 20 | PASS |
|                |      |      | NV | 30  | -60000.00  | -11.450382 | 20 | PASS |
|                |      |      | NV | 40  | -60000.00  | -11.450382 | 20 | PASS |
|                |      |      | NV | 50  | 20000.00   | 3.816794   | 20 | PASS |
| 11AX40SI<br>SO | Ant1 | 5190 | NV | -30 | 0.00       | 0.000000   | 20 | PASS |
|                |      |      | NV | -20 | -40000.00  | -7.707129  | 20 | PASS |
|                |      |      | NV | -10 | 40000.00   | 7.707129   | 20 | PASS |
|                |      |      | NV | 0   | 80000.00   | 15.414258  | 20 | PASS |
|                |      |      | NV | 10  | 0.00       | 0.000000   | 20 | PASS |
|                |      |      | NV | 20  | -80000.00  | -15.414258 | 20 | PASS |
|                |      |      | NV | 30  | 0.00       | 0.000000   | 20 | PASS |
|                |      |      | NV | 40  | -40000.00  | -7.707129  | 20 | PASS |
|                |      |      | NV | 50  | -80000.00  | -15.414258 | 20 | PASS |
|                |      | 5230 | NV | -30 | 0.00       | 0.000000   | 20 | PASS |
|                |      |      | NV | -20 | 0.00       | 0.000000   | 20 | PASS |
|                |      |      | NV | -10 | 80000.00   | 15.296367  | 20 | PASS |
|                |      |      | NV | 0   | 40000.00   | 7.648184   | 20 | PASS |
|                |      |      | NV | 10  | 80000.00   | 15.296367  | 20 | PASS |
|                |      |      | NV | 20  | 80000.00   | 15.296367  | 20 | PASS |
|                |      |      | NV | 30  | 80000.00   | 15.296367  | 20 | PASS |
|                |      |      | NV | 40  | 80000.00   | 15.296367  | 20 | PASS |

|  |  |  |    |    |          |           |    |      |
|--|--|--|----|----|----------|-----------|----|------|
|  |  |  | NV | 50 | 80000.00 | 15.296367 | 20 | PASS |
|--|--|--|----|----|----------|-----------|----|------|

## D.6 Duty Cycle

### Test Result

| TestMode   | Antenna | Freq (MHz) | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] | DC Factor | Limit | Verdict |
|------------|---------|------------|----------------------------|--------------------------|----------------|-----------|-------|---------|
| 11A        | Ant1    | 5180       | 1.40                       | 1.45                     | 96.55          | 0.15      | ---   | ---     |
|            |         | 5200       | 1.39                       | 1.44                     | 96.53          | 0.15      | ---   | ---     |
|            |         | 5240       | 1.38                       | 1.43                     | 96.50          | 0.15      | ---   | ---     |
| 11N20SISO  | Ant1    | 5180       | 1.30                       | 1.34                     | 97.01          | 0.13      | ---   | ---     |
|            |         | 5200       | 1.30                       | 1.34                     | 97.01          | 0.13      | ---   | ---     |
|            |         | 5240       | 1.30                       | 1.34                     | 97.01          | 0.13      | ---   | ---     |
| 11N40SISO  | Ant1    | 5190       | 0.65                       | 0.70                     | 92.86          | 0.32      | ---   | ---     |
|            |         | 5230       | 0.65                       | 0.69                     | 94.20          | 0.26      | ---   | ---     |
| 11AC20SISO | Ant1    | 5180       | 1.31                       | 1.35                     | 97.04          | 0.13      | ---   | ---     |
|            |         | 5200       | 1.31                       | 1.35                     | 97.04          | 0.13      | ---   | ---     |
|            |         | 5240       | 1.31                       | 1.36                     | 96.32          | 0.16      | ---   | ---     |
| 11AC40SISO | Ant1    | 5190       | 0.65                       | 0.69                     | 94.20          | 0.26      | ---   | ---     |
|            |         | 5230       | 0.65                       | 0.70                     | 92.86          | 0.32      | ---   | ---     |
| 11AX20SISO | Ant1    | 5180       | 1.32                       | 1.36                     | 97.06          | 0.13      | ---   | ---     |
|            |         | 5200       | 1.31                       | 1.36                     | 96.32          | 0.16      | ---   | ---     |
|            |         | 5240       | 1.31                       | 1.36                     | 96.32          | 0.16      | ---   | ---     |
| 11AX40SISO | Ant1    | 5190       | 0.65                       | 0.70                     | 92.86          | 0.32      | ---   | ---     |
|            |         | 5230       | 0.65                       | 0.69                     | 94.20          | 0.26      | ---   | ---     |

Test Graphs

