

Appendix E: Band edge measurements
Test Result B4

| TestMode | Antenna | ChName | Frequency[MHz] | FreqRange [MHz] | Result [dBm] | Limit [dBm] | Verdict |
|------------|---------|--------|----------------|-----------------|--------------|-------------|---------|
| 11A | Ant1 | Low | 5745 | 5720~5725 | -30.5 | ≤17.13 | PASS |
| 11A | Ant1 | Low | 5745 | 5700~5720 | -30.52 | ≤12.57 | PASS |
| 11A | Ant1 | Low | 5745 | 5650~5700 | -33.18 | ≤-26.36 | PASS |
| 11A | Ant1 | Low | 5745 | 5760~5650 | -33.64 | ≤-27 | PASS |
| 11A | Ant2 | Low | 5745 | 5720~5725 | -24.25 | ≤16.87 | PASS |
| 11A | Ant2 | Low | 5745 | 5700~5720 | -25.01 | ≤15.56 | PASS |
| 11A | Ant2 | Low | 5745 | 5650~5700 | -33.8 | ≤-26.62 | PASS |
| 11A | Ant2 | Low | 5745 | 5760~5650 | -33.13 | ≤-27 | PASS |
| 11A | Ant1 | High | 5825 | 5850~5855 | -28.22 | ≤15.73 | PASS |
| 11A | Ant1 | High | 5825 | 5855~5875 | -31.84 | ≤10.78 | PASS |
| 11A | Ant1 | High | 5825 | 5875~5925 | -34.07 | ≤-26.61 | PASS |
| 11A | Ant1 | High | 5825 | 5925~5935 | -32.88 | ≤-27 | PASS |
| 11A | Ant2 | High | 5825 | 5850~5855 | -32.11 | ≤15.73 | PASS |
| 11A | Ant2 | High | 5825 | 5855~5875 | -32.87 | ≤10.51 | PASS |
| 11A | Ant2 | High | 5825 | 5875~5925 | -33.88 | ≤-26.61 | PASS |
| 11A | Ant2 | High | 5825 | 5925~5935 | -32.31 | ≤-27 | PASS |
| 11N20MIMO | Ant1 | Low | 5745 | 5720~5725 | -23.43 | ≤18.44 | PASS |
| 11N20MIMO | Ant1 | Low | 5745 | 5700~5720 | -24.66 | ≤15.08 | PASS |
| 11N20MIMO | Ant1 | Low | 5745 | 5650~5700 | -34.36 | ≤-26.87 | PASS |
| 11N20MIMO | Ant1 | Low | 5745 | 5760~5650 | -33.15 | ≤-27 | PASS |
| 11N20MIMO | Ant2 | Low | 5745 | 5720~5725 | -16.89 | ≤17.13 | PASS |
| 11N20MIMO | Ant2 | Low | 5745 | 5700~5720 | -21.96 | ≤13.66 | PASS |
| 11N20MIMO | Ant2 | Low | 5745 | 5650~5700 | -33.6 | ≤-26.87 | PASS |
| 11N20MIMO | Ant2 | Low | 5745 | 5760~5650 | -33.28 | ≤-27 | PASS |
| 11N20MIMO | Ant1 | High | 5825 | 5850~5855 | -21.41 | ≤16.65 | PASS |
| 11N20MIMO | Ant1 | High | 5825 | 5855~5875 | -22.58 | ≤15.39 | PASS |
| 11N20MIMO | Ant1 | High | 5825 | 5875~5925 | -33.62 | ≤-26.11 | PASS |
| 11N20MIMO | Ant1 | High | 5825 | 5925~5935 | -32.17 | ≤-27 | PASS |
| 11N20MIMO | Ant2 | High | 5825 | 5850~5855 | -26.39 | ≤16.03 | PASS |
| 11N20MIMO | Ant2 | High | 5825 | 5855~5875 | -24.65 | ≤15.09 | PASS |
| 11N20MIMO | Ant2 | High | 5825 | 5875~5925 | -32.14 | ≤-25.61 | PASS |
| 11N20MIMO | Ant2 | High | 5825 | 5925~5935 | -33 | ≤-27 | PASS |
| 11N40MIMO | Ant1 | Low | 5755 | 5720~5725 | -21.49 | ≤17.89 | PASS |
| 11N40MIMO | Ant1 | Low | 5755 | 5700~5720 | -24.41 | ≤12.29 | PASS |
| 11N40MIMO | Ant1 | Low | 5755 | 5650~5700 | -34.64 | ≤-26.50 | PASS |
| 11N40MIMO | Ant1 | Low | 5755 | 5780~5650 | -33.17 | ≤-27 | PASS |
| 11N40MIMO | Ant2 | Low | 5755 | 5720~5725 | -26.4 | ≤15.74 | PASS |
| 11N40MIMO | Ant2 | Low | 5755 | 5700~5720 | -26.63 | ≤14.90 | PASS |
| 11N40MIMO | Ant2 | Low | 5755 | 5650~5700 | -42 | ≤-26.30 | PASS |
| 11N40MIMO | Ant2 | Low | 5755 | 5780~5650 | -41.4 | ≤-27 | PASS |
| 11N40MIMO | Ant1 | High | 5795 | 5850~5855 | -33.75 | ≤16.41 | PASS |
| 11N40MIMO | Ant1 | High | 5795 | 5855~5875 | -33.03 | ≤10.34 | PASS |
| 11N40MIMO | Ant1 | High | 5795 | 5875~5925 | -33.83 | ≤-26.46 | PASS |
| 11N40MIMO | Ant1 | High | 5795 | 5925~5935 | -32.64 | ≤-27 | PASS |
| 11N40MIMO | Ant2 | High | 5795 | 5850~5855 | -30.93 | ≤16.41 | PASS |
| 11N40MIMO | Ant2 | High | 5795 | 5855~5875 | -32.92 | ≤10.02 | PASS |
| 11N40MIMO | Ant2 | High | 5795 | 5875~5925 | -35.49 | ≤-26.95 | PASS |
| 11N40MIMO | Ant2 | High | 5795 | 5925~5935 | -32.98 | ≤-27 | PASS |
| 11AC20MIMO | Ant1 | Low | 5745 | 5720~5725 | -27.41 | ≤16.87 | PASS |
| 11AC20MIMO | Ant1 | Low | 5745 | 5700~5720 | -33.67 | ≤10.60 | PASS |
| 11AC20MIMO | Ant1 | Low | 5745 | 5650~5700 | -33.95 | ≤-26.62 | PASS |
| 11AC20MIMO | Ant1 | Low | 5745 | 5760~5650 | -32.74 | ≤-27 | PASS |

| | | | | | | | |
|------------|------|------|------|-----------|--------|---------|------|
| 11AC20MIMO | Ant2 | Low | 5745 | 5720~5725 | -29.95 | ≤17.13 | PASS |
| 11AC20MIMO | Ant2 | Low | 5745 | 5700~5720 | -33.32 | ≤10.02 | PASS |
| 11AC20MIMO | Ant2 | Low | 5745 | 5650~5700 | -34.51 | ≤-26.79 | PASS |
| 11AC20MIMO | Ant2 | Low | 5745 | 5760~5650 | -32.93 | ≤-27 | PASS |
| 11AC20MIMO | Ant1 | High | 5825 | 5850~5855 | -34.69 | ≤15.73 | PASS |
| 11AC20MIMO | Ant1 | High | 5825 | 5855~5875 | -28.95 | ≤14.59 | PASS |
| 11AC20MIMO | Ant1 | High | 5825 | 5875~5925 | -33.21 | ≤-26.81 | PASS |
| 11AC20MIMO | Ant1 | High | 5825 | 5925~5935 | -32.89 | ≤-27 | PASS |
| 11AC20MIMO | Ant2 | High | 5825 | 5850~5855 | -28.29 | ≤15.73 | PASS |
| 11AC20MIMO | Ant2 | High | 5825 | 5855~5875 | -25.55 | ≤14.41 | PASS |
| 11AC20MIMO | Ant2 | High | 5825 | 5875~5925 | -33.08 | ≤-26.81 | PASS |
| 11AC20MIMO | Ant2 | High | 5825 | 5925~5935 | -32.64 | ≤-27 | PASS |
| 11AC40MIMO | Ant1 | Low | 5755 | 5720~5725 | -24.64 | ≤16.66 | PASS |
| 11AC40MIMO | Ant1 | Low | 5755 | 5700~5720 | -22.3 | ≤15.54 | PASS |
| 11AC40MIMO | Ant1 | Low | 5755 | 5650~5700 | -34.8 | ≤-26.90 | PASS |
| 11AC40MIMO | Ant1 | Low | 5755 | 5780~5650 | -33.41 | ≤-27 | PASS |
| 11AC40MIMO | Ant2 | Low | 5755 | 5720~5725 | -27.52 | ≤18.81 | PASS |
| 11AC40MIMO | Ant2 | Low | 5755 | 5700~5720 | -21.05 | ≤14.60 | PASS |
| 11AC40MIMO | Ant2 | Low | 5755 | 5650~5700 | -34.27 | ≤-26.90 | PASS |
| 11AC40MIMO | Ant2 | Low | 5755 | 5780~5650 | -33.67 | ≤-27 | PASS |
| 11AC40MIMO | Ant1 | High | 5795 | 5850~5855 | -30.5 | ≤18.29 | PASS |
| 11AC40MIMO | Ant1 | High | 5795 | 5855~5875 | -31.57 | ≤10.06 | PASS |
| 11AC40MIMO | Ant1 | High | 5795 | 5875~5925 | -33.57 | ≤-26.10 | PASS |
| 11AC40MIMO | Ant1 | High | 5795 | 5925~5935 | -33.02 | ≤-27 | PASS |
| 11AC40MIMO | Ant2 | High | 5795 | 5850~5855 | -28.23 | ≤17.16 | PASS |
| 11AC40MIMO | Ant2 | High | 5795 | 5855~5875 | -30.9 | ≤12.42 | PASS |
| 11AC40MIMO | Ant2 | High | 5795 | 5875~5925 | -33.61 | ≤-25.98 | PASS |
| 11AC40MIMO | Ant2 | High | 5795 | 5925~5935 | -33.12 | ≤-27 | PASS |
| 11AC80MIMO | Ant1 | Low | 5775 | 5720~5725 | -27.97 | ≤15.65 | PASS |
| 11AC80MIMO | Ant1 | Low | 5775 | 5700~5720 | -25.33 | ≤10.14 | PASS |
| 11AC80MIMO | Ant1 | Low | 5775 | 5650~5700 | -34.29 | ≤-26.91 | PASS |
| 11AC80MIMO | Ant1 | Low | 5775 | 5800~5650 | -33.23 | ≤-27 | PASS |
| 11AC80MIMO | Ant1 | High | 5775 | 5850~5855 | -22.66 | ≤17.53 | PASS |
| 11AC80MIMO | Ant1 | High | 5775 | 5855~5875 | -23.22 | ≤14.44 | PASS |
| 11AC80MIMO | Ant1 | High | 5775 | 5875~5925 | -33.34 | ≤-26.73 | PASS |
| 11AC80MIMO | Ant1 | High | 5775 | 5925~5935 | -31.94 | ≤-27 | PASS |
| 11AC80MIMO | Ant2 | Low | 5775 | 5720~5725 | -22.75 | ≤16.00 | PASS |
| 11AC80MIMO | Ant2 | Low | 5775 | 5700~5720 | -26.43 | ≤11.53 | PASS |
| 11AC80MIMO | Ant2 | Low | 5775 | 5650~5700 | -34.26 | ≤-26.91 | PASS |
| 11AC80MIMO | Ant2 | Low | 5775 | 5800~5650 | -33.67 | ≤-27 | PASS |
| 11AC80MIMO | Ant2 | High | 5775 | 5850~5855 | -22.43 | ≤16.26 | PASS |
| 11AC80MIMO | Ant2 | High | 5775 | 5855~5875 | -21.99 | ≤15.16 | PASS |
| 11AC80MIMO | Ant2 | High | 5775 | 5875~5925 | -31.87 | ≤-26.05 | PASS |
| 11AC80MIMO | Ant2 | High | 5775 | 5925~5935 | -32.25 | ≤-27 | PASS |

Test Graphs B4

11A-Ant1-5745-PASS



11A-Ant2-5745-PASS



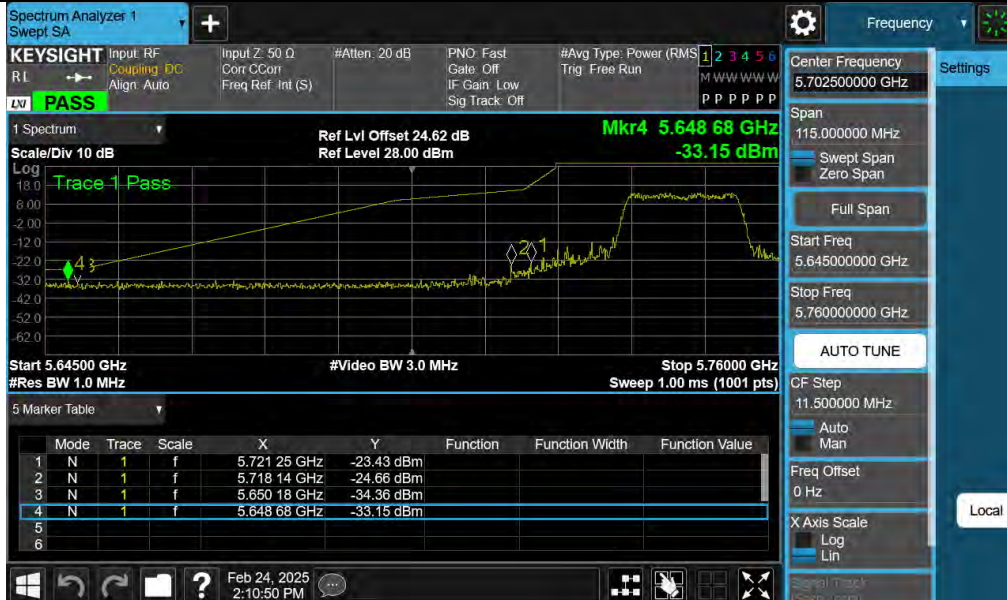
11A-Ant1-5825-PASS



11A-Ant2-5825-PASS

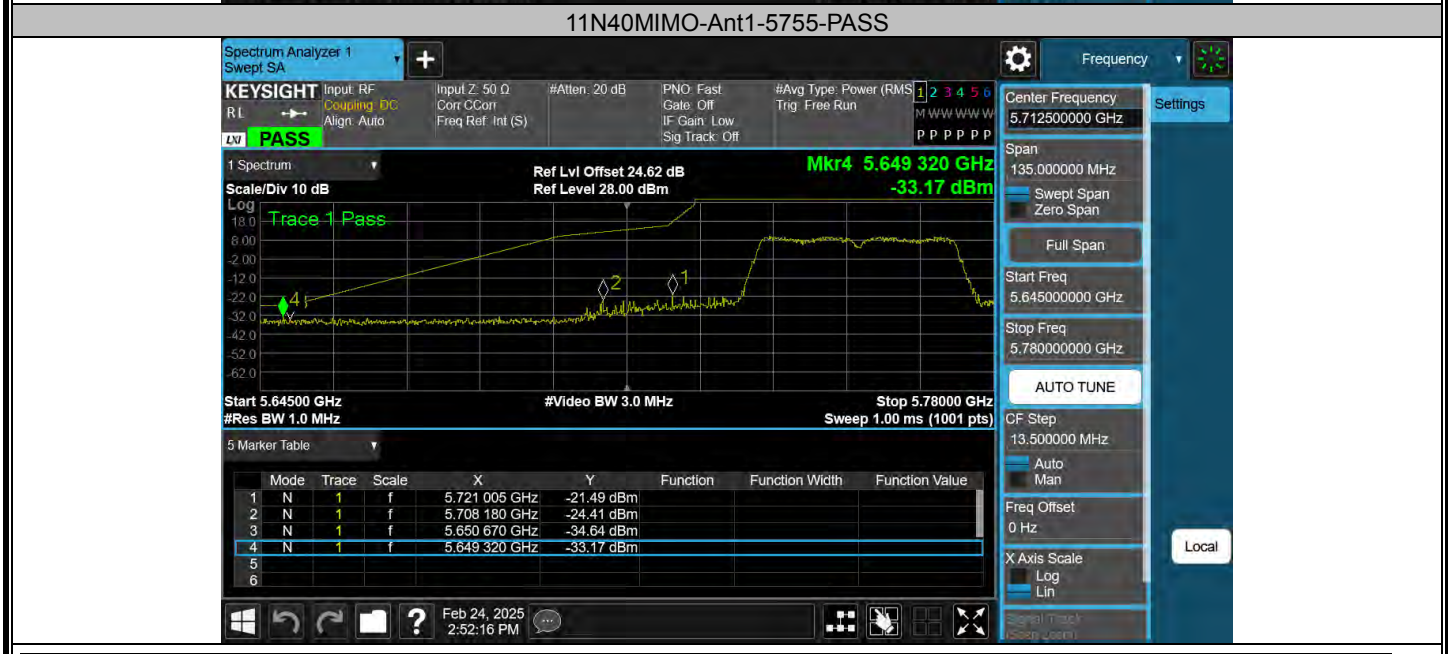
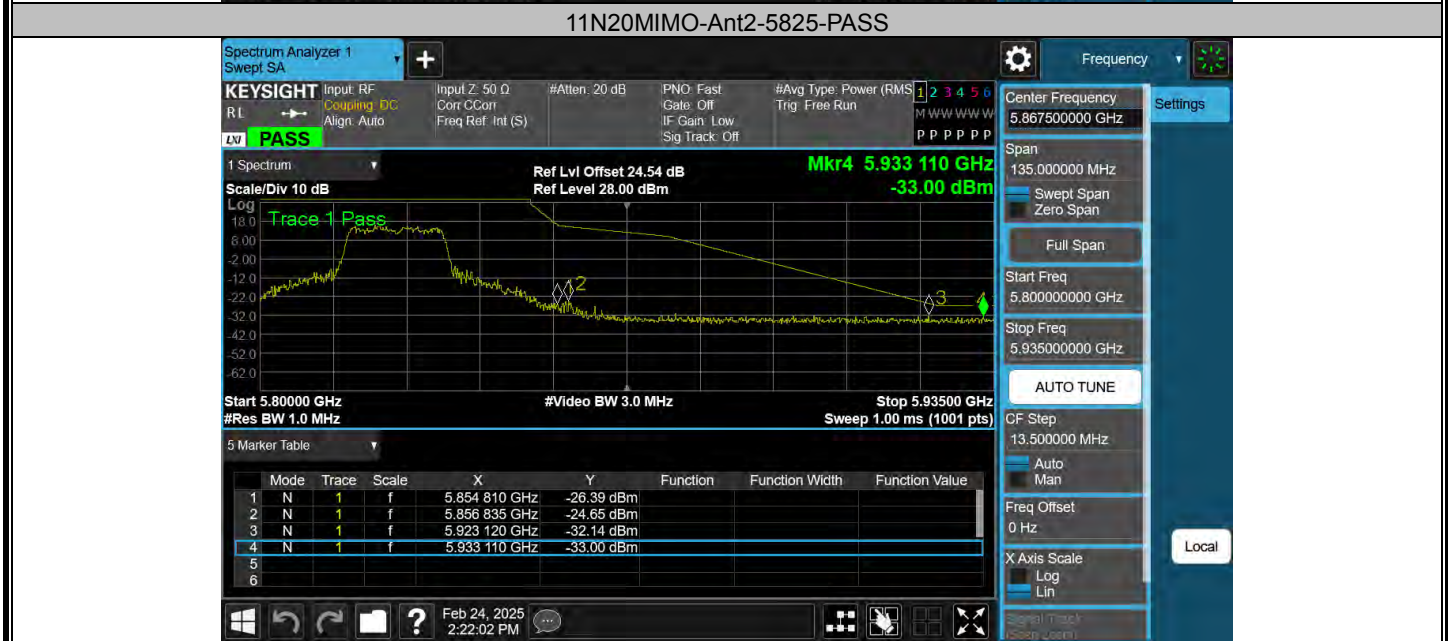
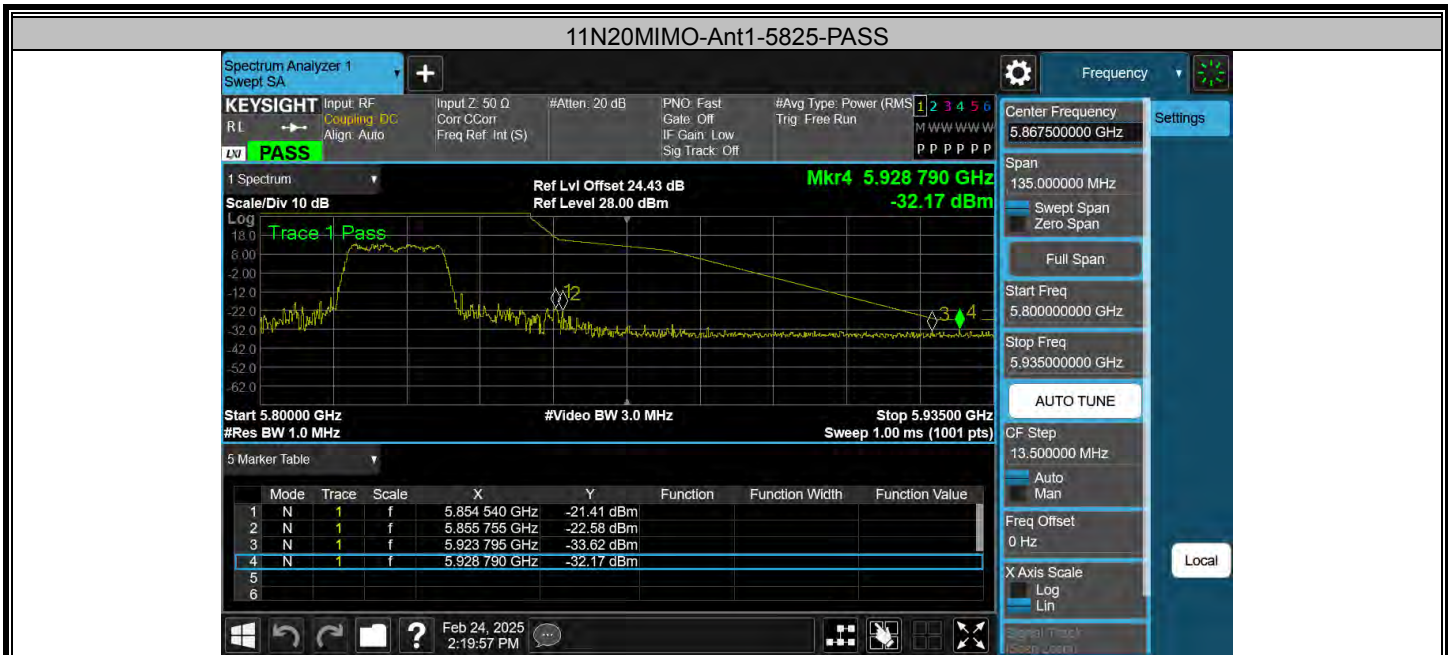


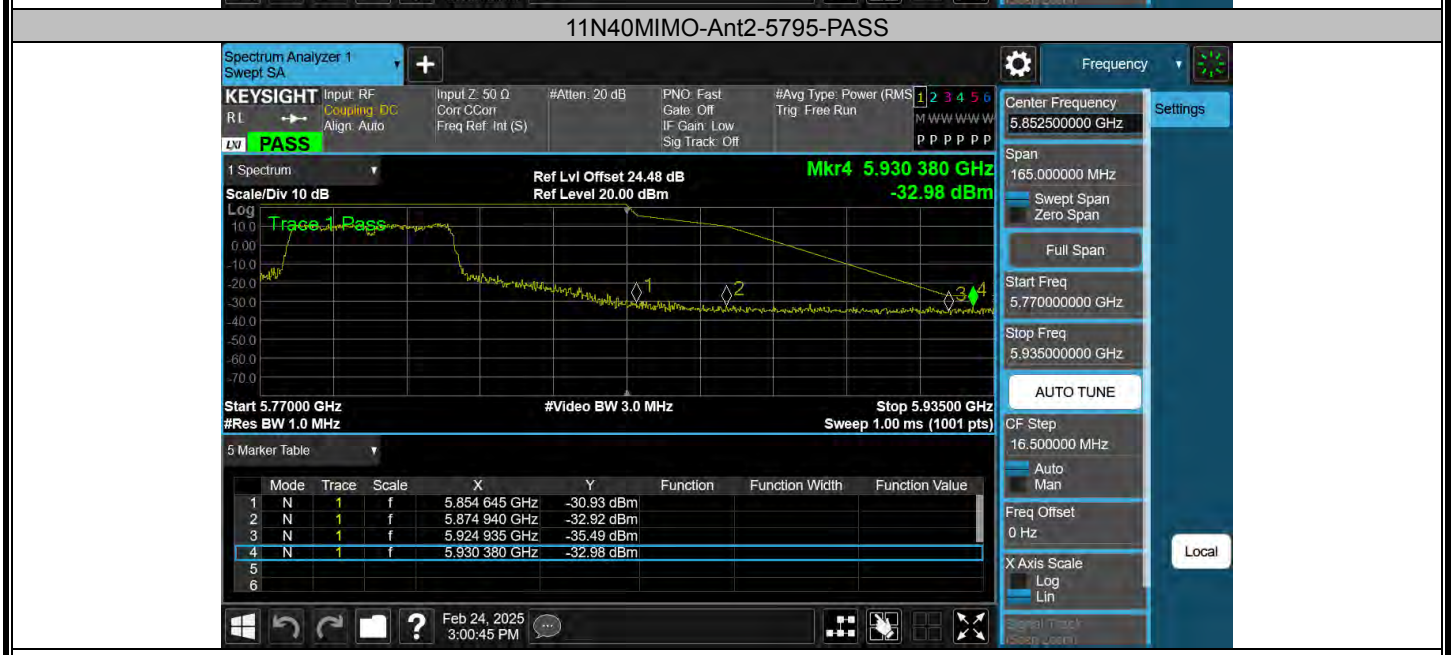
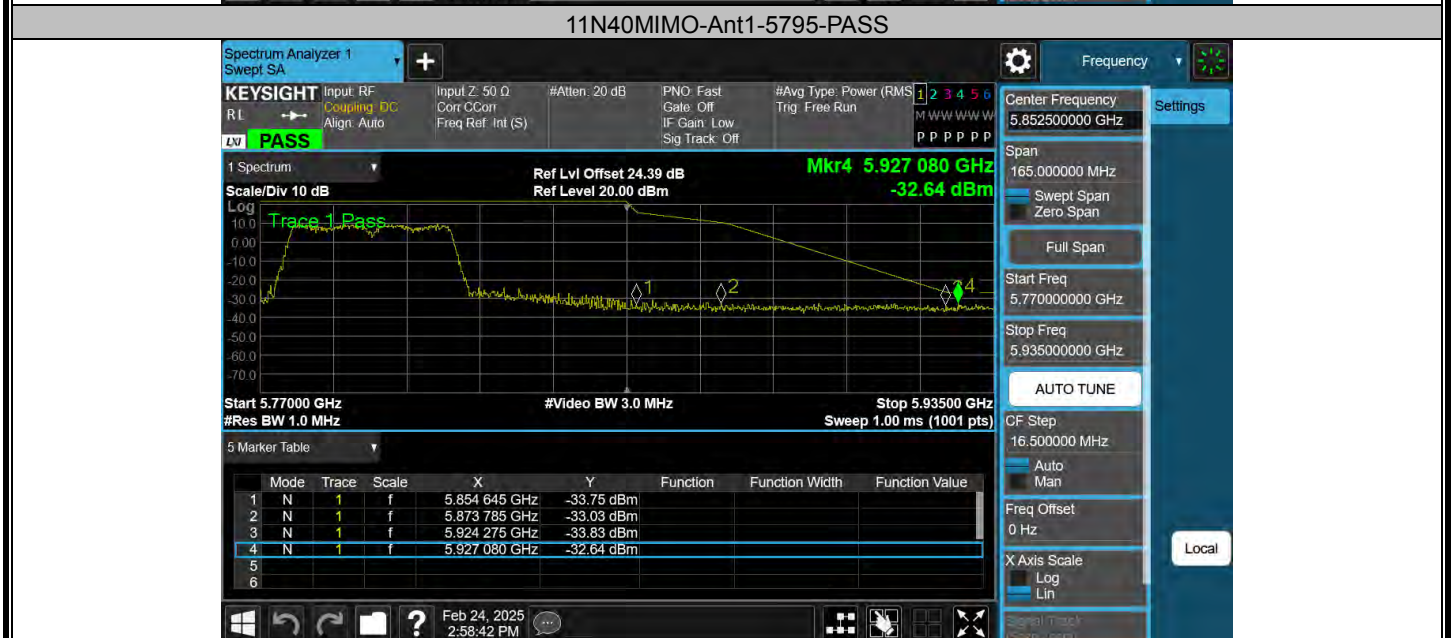
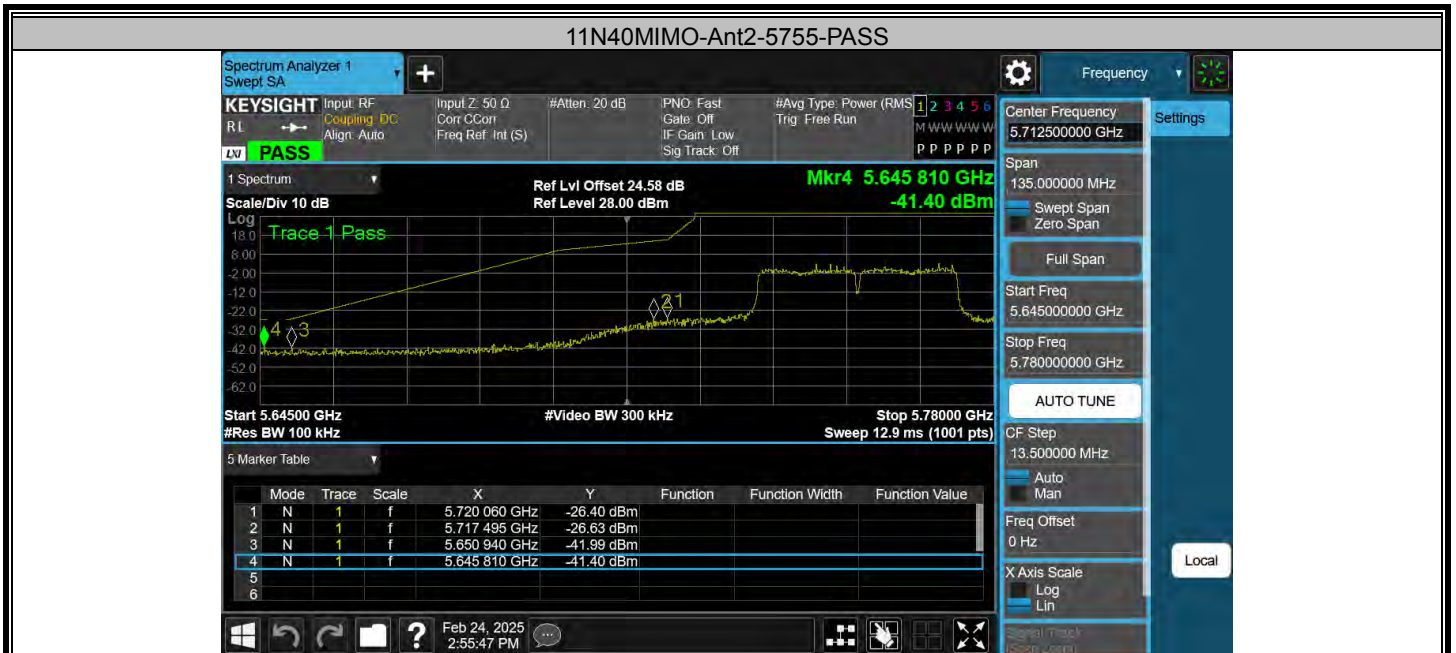
11N20MIMO-Ant1-5745-PASS

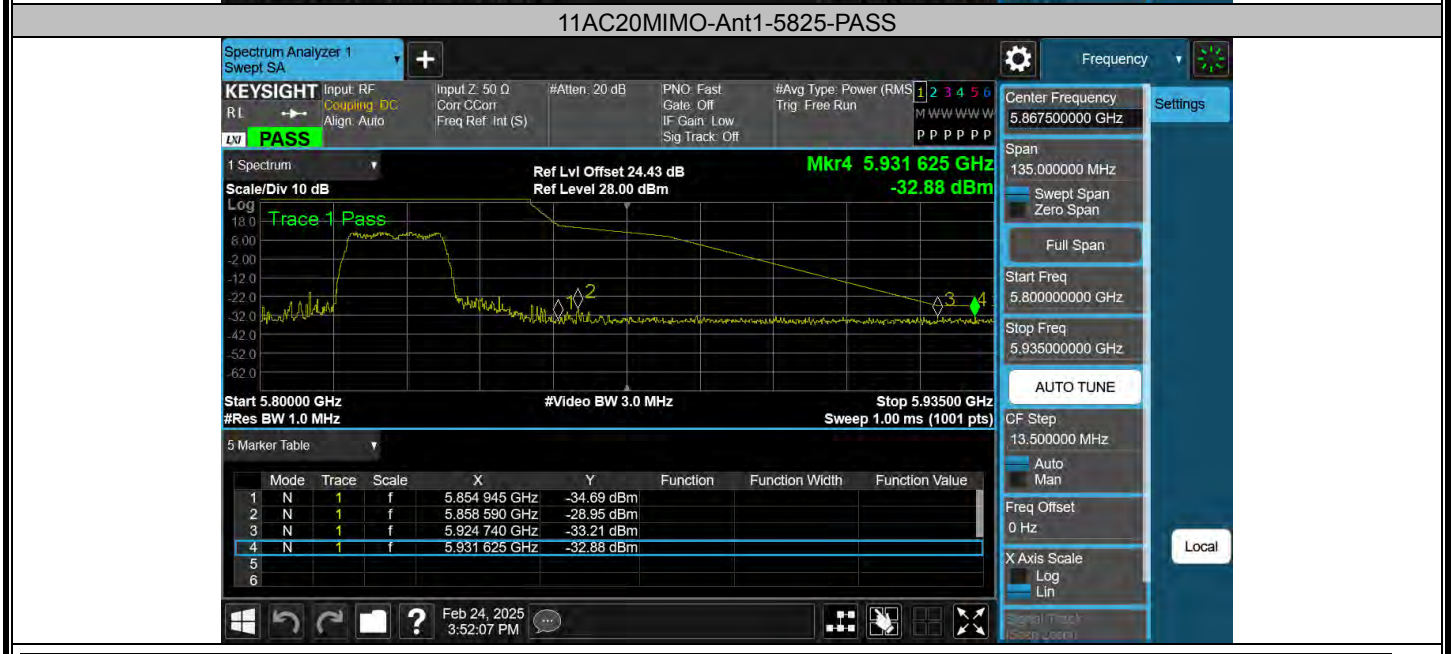
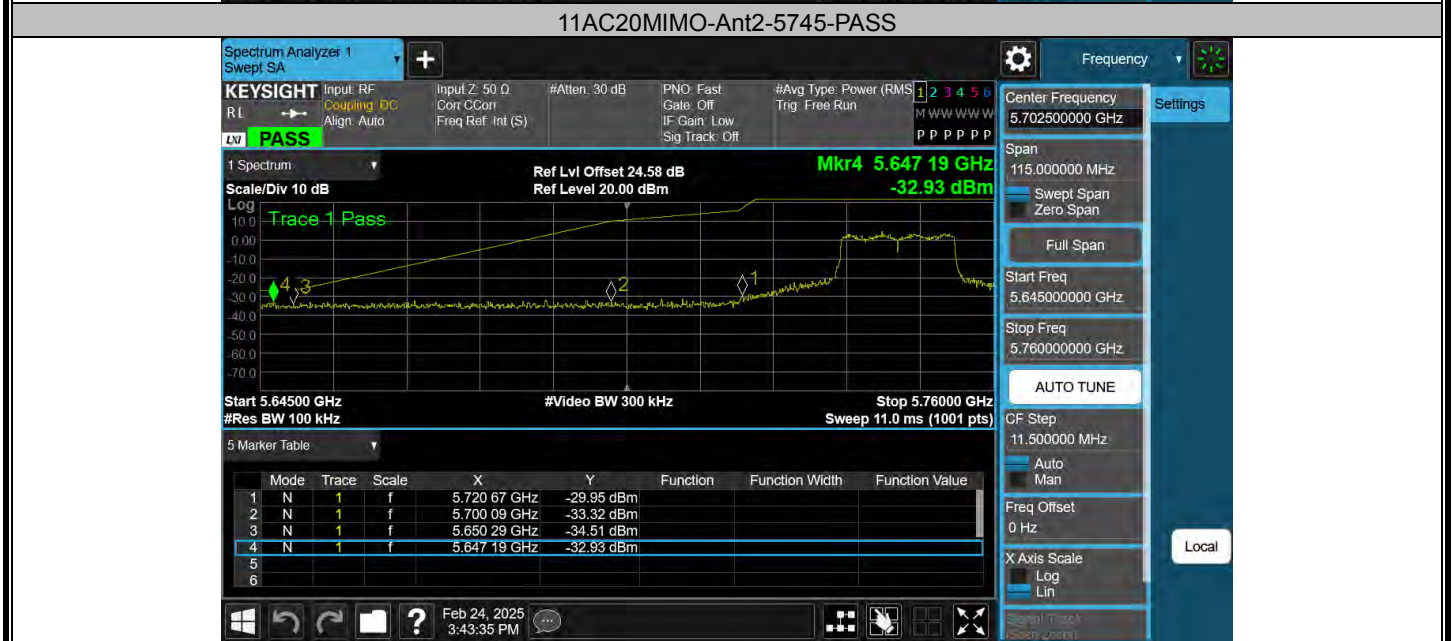
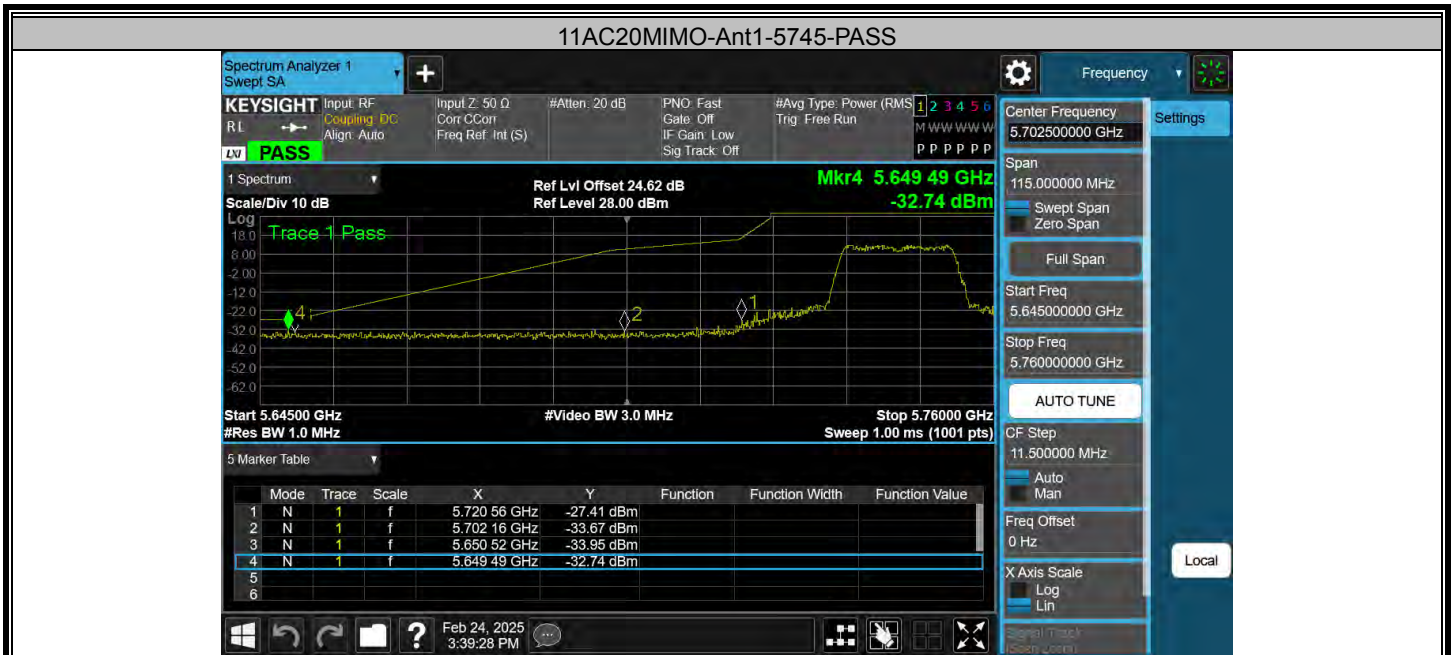


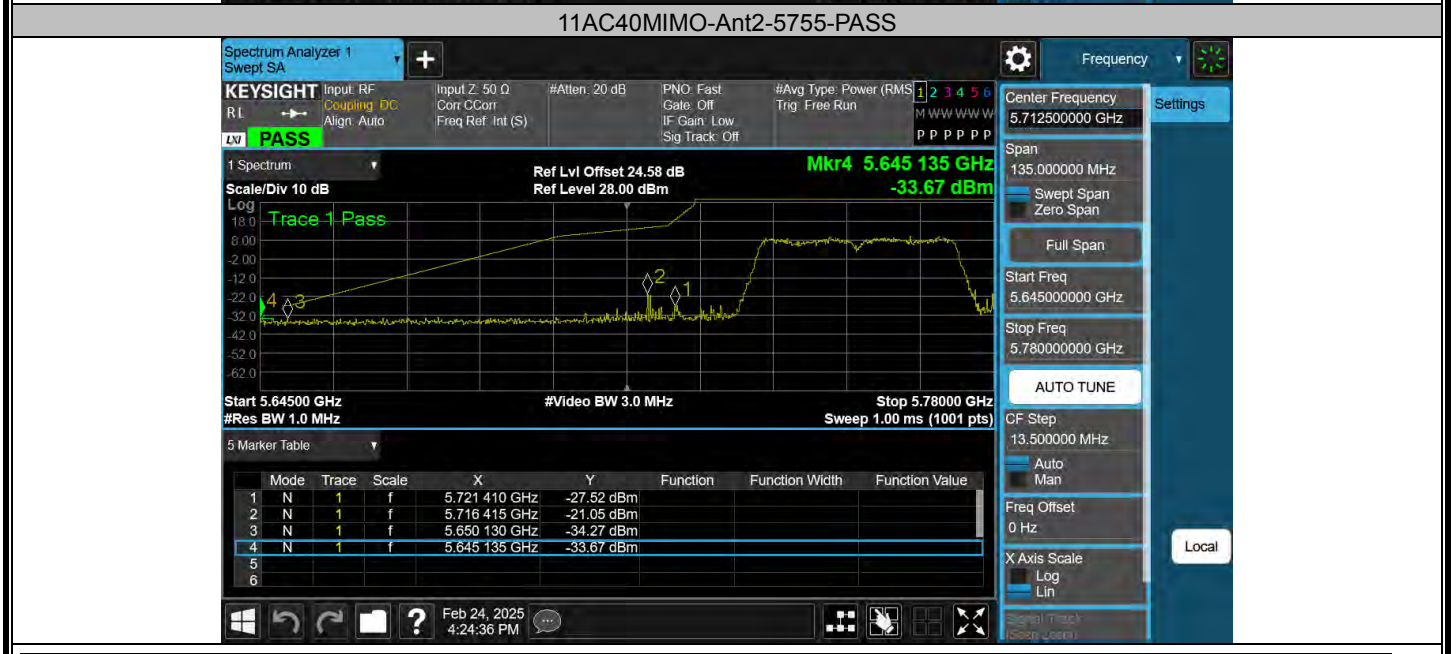
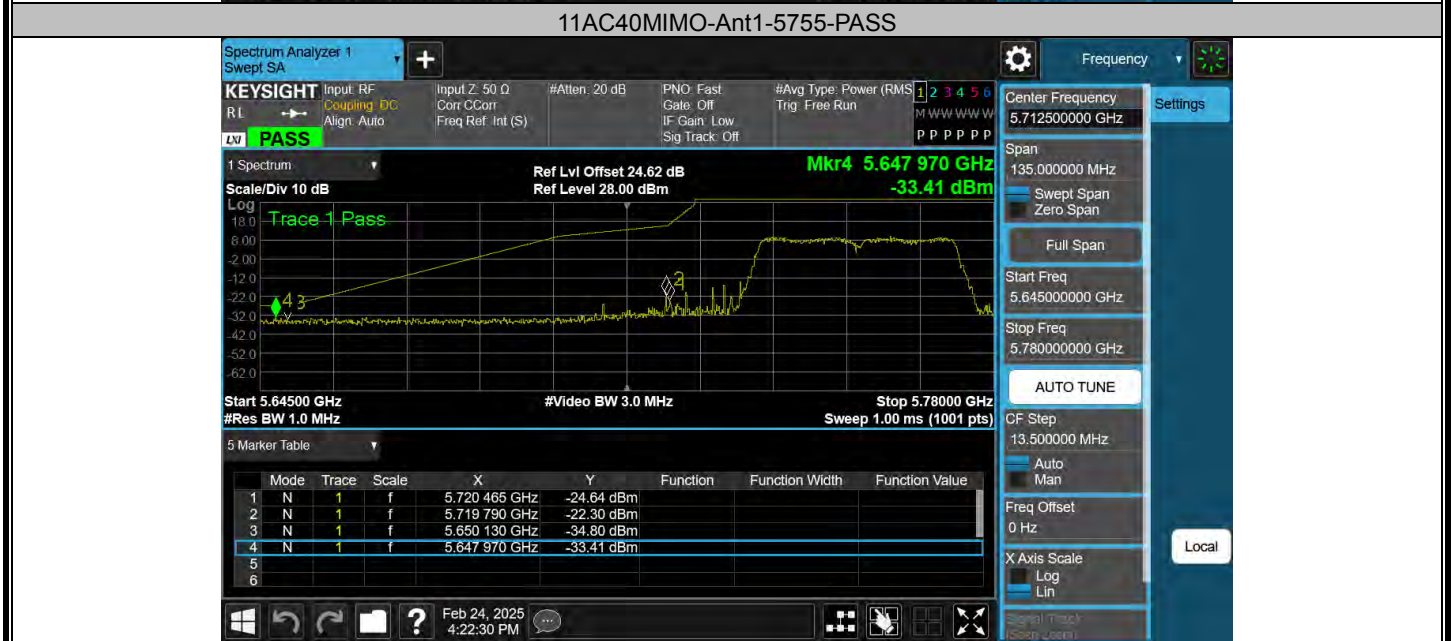
11N20MIMO-Ant2-5745-PASS











11AC40MIMO-Ant1-5795-PASS

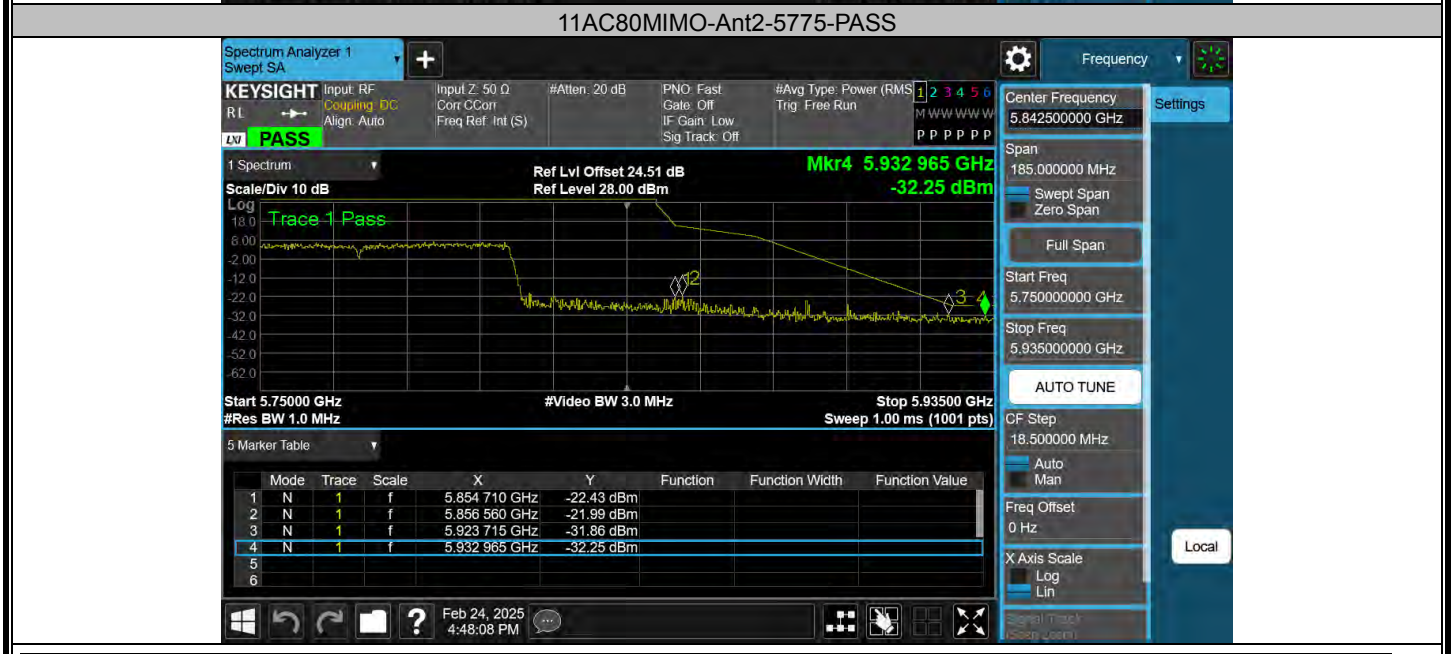
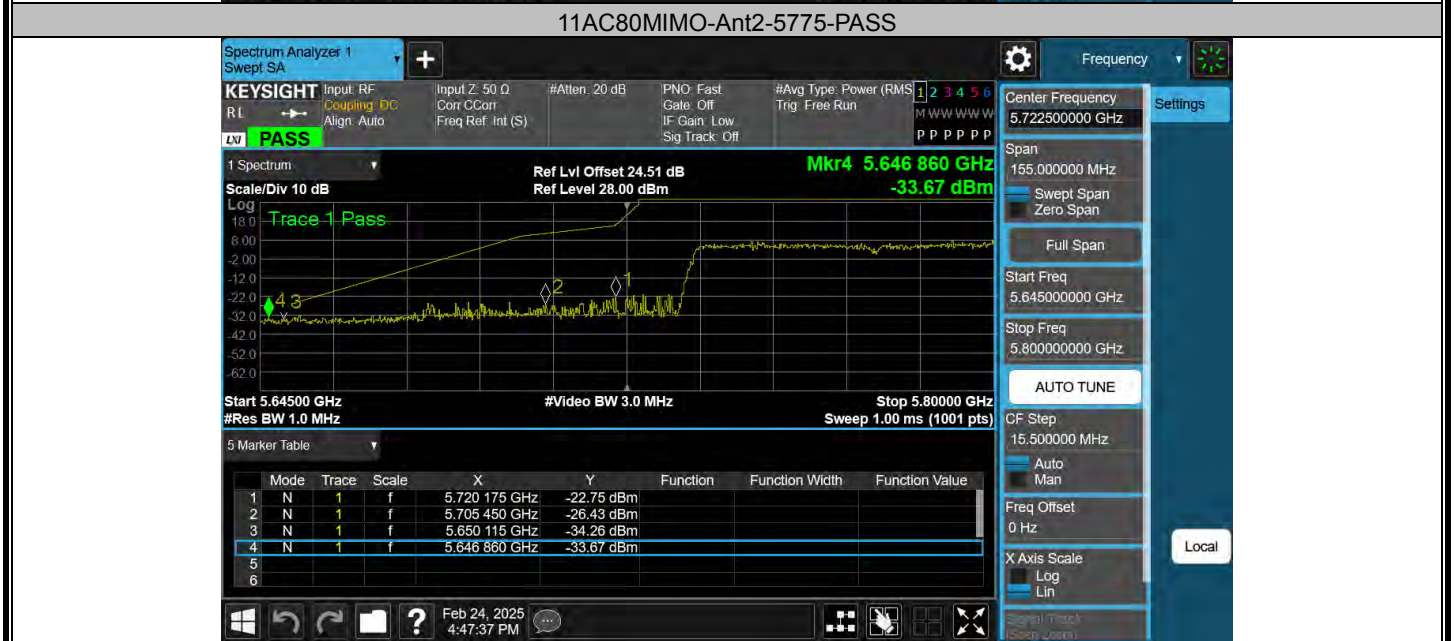
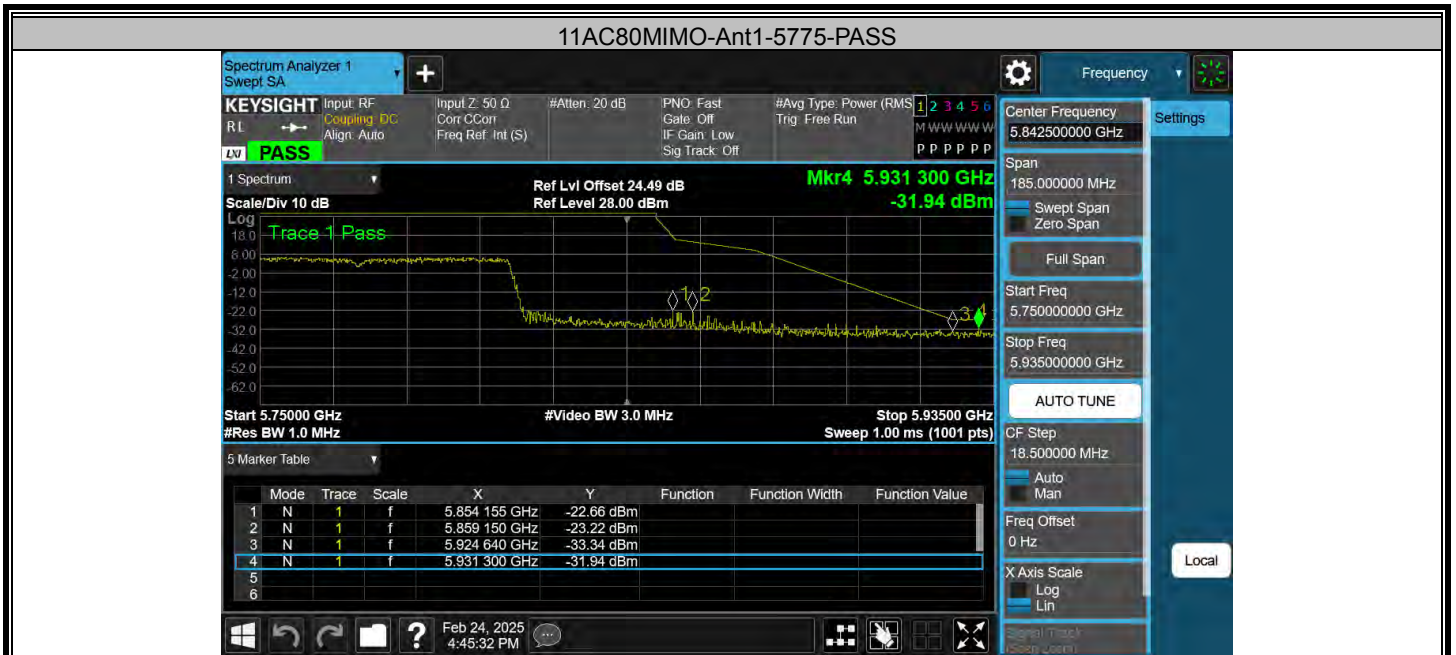


11AC40MIMO-Ant2-5795-PASS



11AC80MIMO-Ant1-5775-PASS





**Appendix G: Frequency Stability
Test Result**

| TestMode | Antenna | Frequency[MHz] | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|----------|---------|----------------|---------------|------------------|----------------|-----------------|-------------|---------|
| 11A | Ant1 | 5180 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| 11A | Ant1 | 5180 | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| 11A | Ant1 | 5180 | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| 11A | Ant1 | 5745 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| 11A | Ant1 | 5745 | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| 11A | Ant1 | 5745 | HV | NT | 0.00 | 0.000000 | 20 | PASS |

| TestMode | Antenna | Frequency[MHz] | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|----------|---------|----------------|---------------|------------------|----------------|-----------------|-------------|---------|
| 11A | Ant1 | 5180 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| 11A | Ant1 | 5180 | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| 11A | Ant1 | 5180 | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| 11A | Ant1 | 5180 | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| 11A | Ant1 | 5180 | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| 11A | Ant1 | 5180 | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| 11A | Ant1 | 5180 | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| 11A | Ant1 | 5180 | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| 11A | Ant1 | 5180 | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| 11A | Ant1 | 5745 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| 11A | Ant1 | 5745 | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| 11A | Ant1 | 5745 | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| 11A | Ant1 | 5745 | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| 11A | Ant1 | 5745 | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| 11A | Ant1 | 5745 | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| 11A | Ant1 | 5745 | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| 11A | Ant1 | 5745 | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| 11A | Ant1 | 5745 | NV | 50 | 0.00 | 0.000000 | 20 | PASS |

11. TEST SETUP PHOTO

Conducted Test



Radiated Test (Below 1GHz)



Radiated Test (Above 1GHz)



12. EUT PHOTO

Refer to report no. ESTE-R2503271

End of Test Report