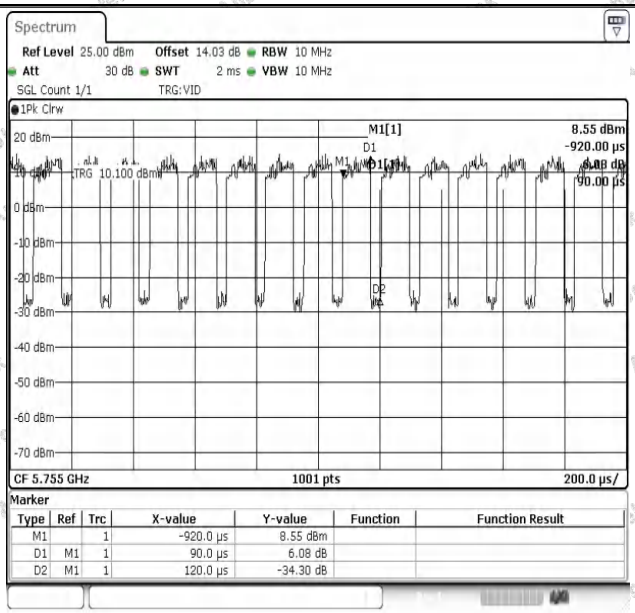
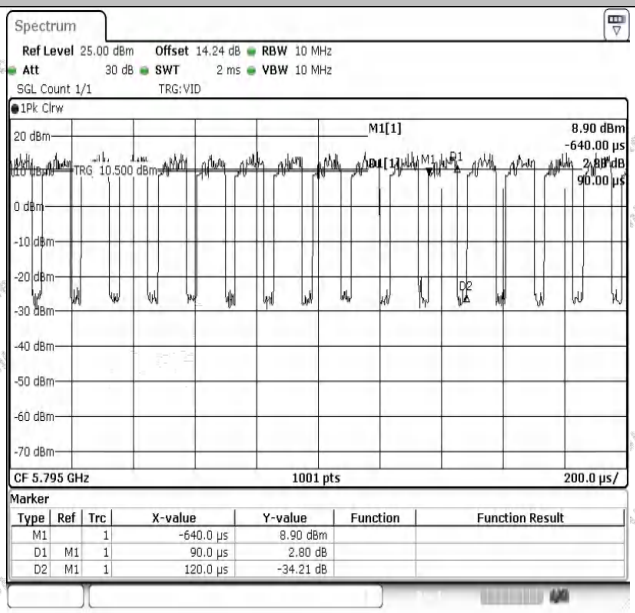
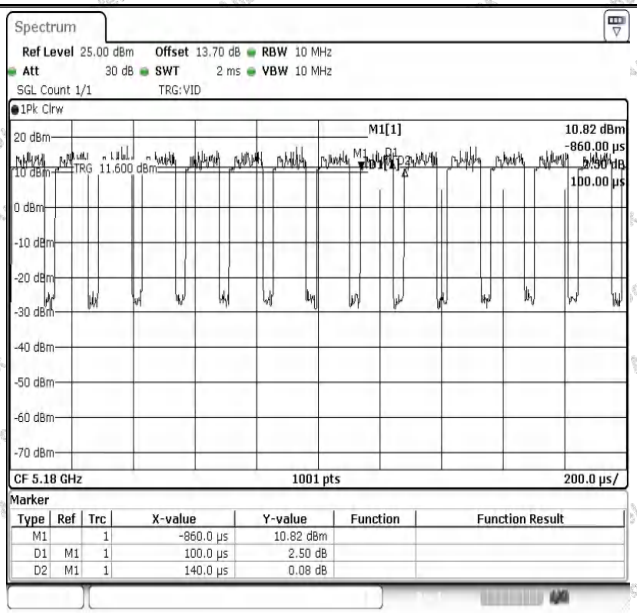


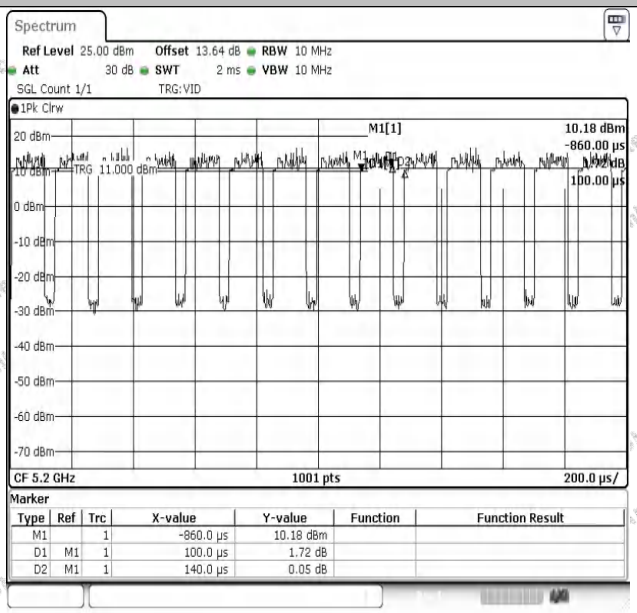

NTNV-11AC40SISO-Ant1-5755



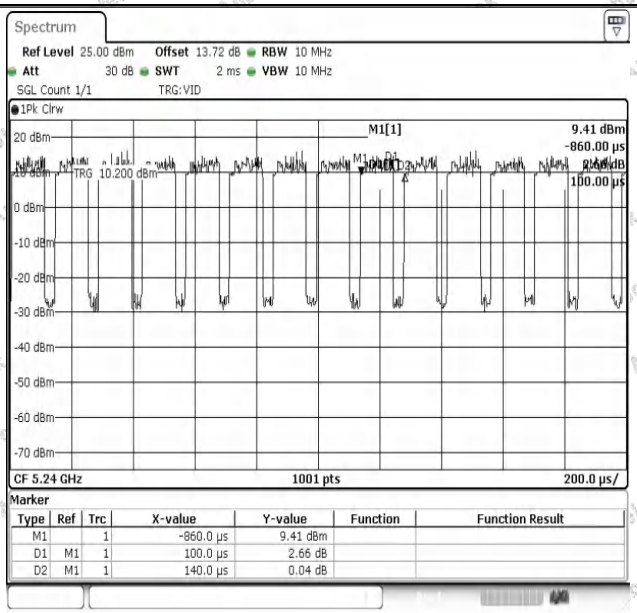

NTNV-11AC40SISO-Ant1-5795



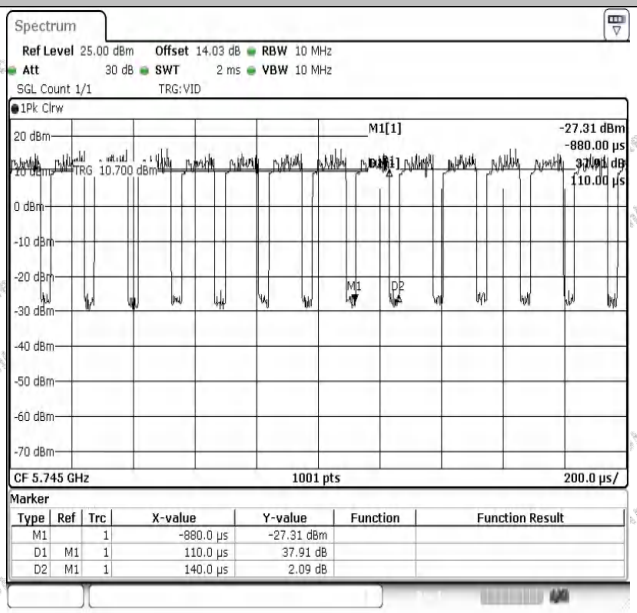

NTNV-11AX20SISO-Ant1-5180



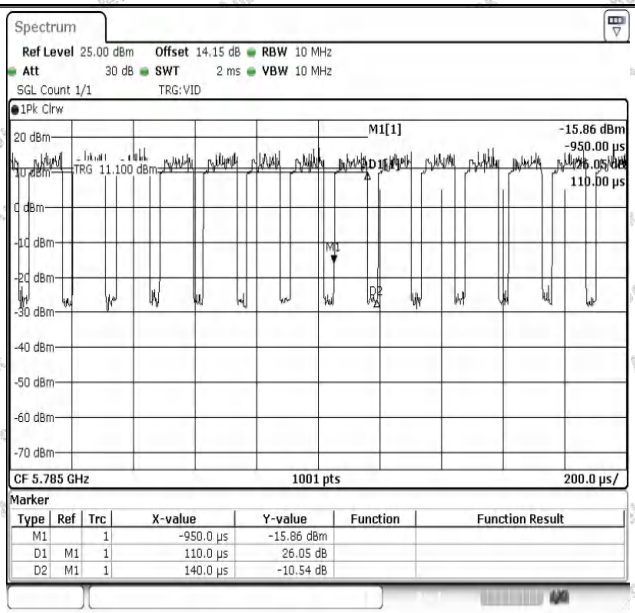

NTNV-11AX20SISO-Ant1-5200



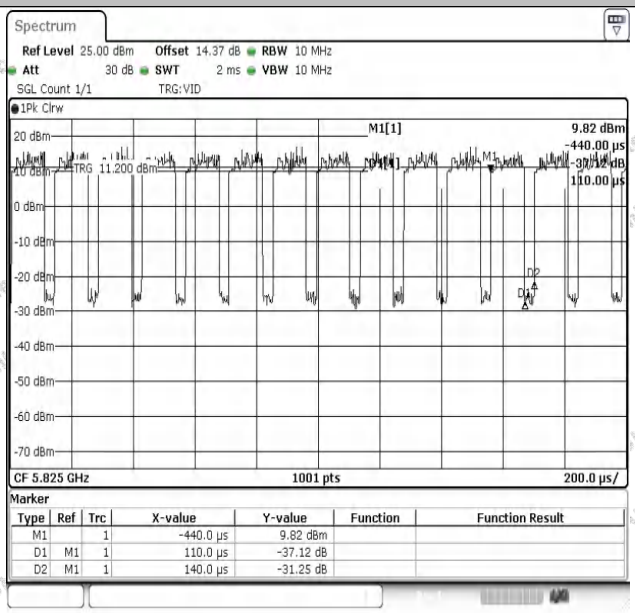

NTNV-11AX20SISO-Ant1-5240



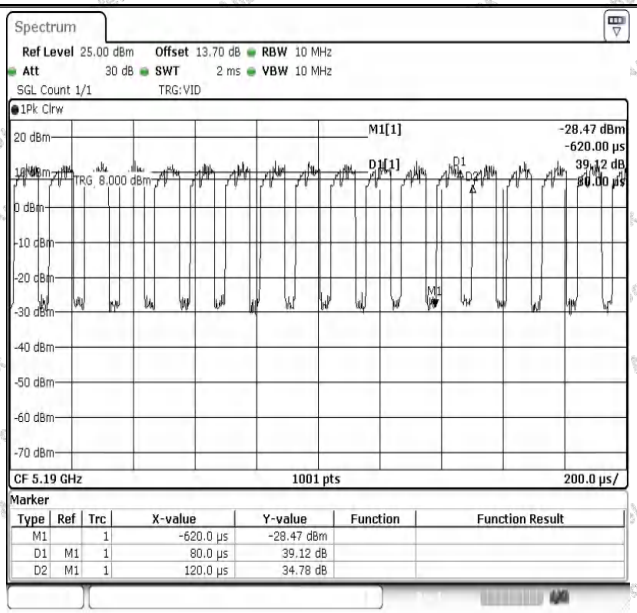

NTNV-11AX20SISO-Ant1-5745



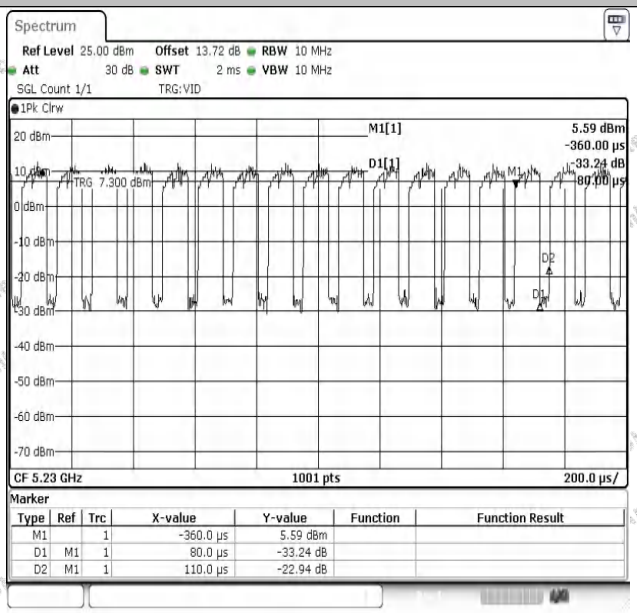

NTNV-11AX20SISO-Ant1-5785



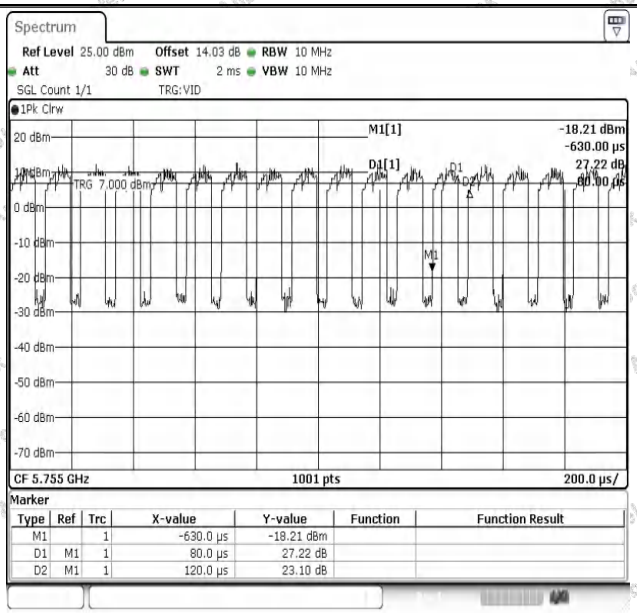

NTNV-11AX20SISO-Ant1-5825



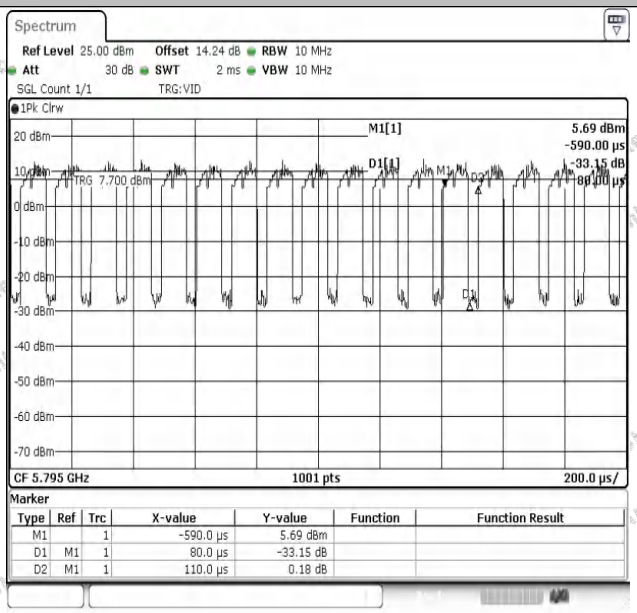

NTNV-11AX40SISO-Ant1-5190




NTNV-11AX40SISO-Ant1-5230




NTNV-11AX40SISO-Ant1-5755




NTNV-11AX40SISO-Ant1-5795

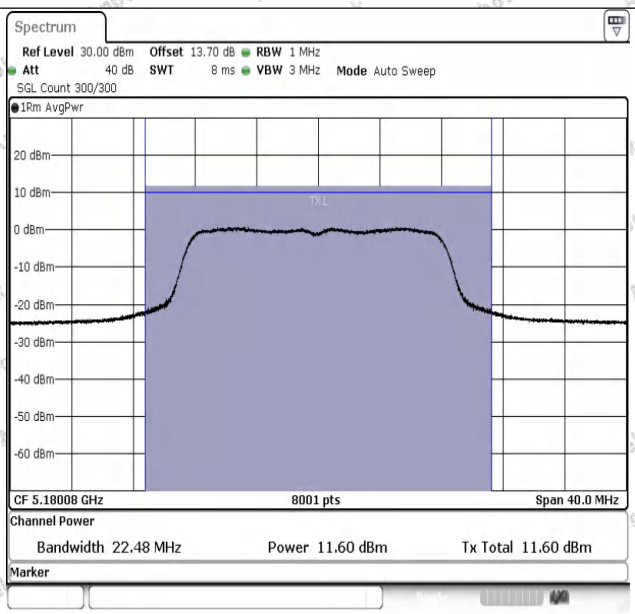
# Appendix C: Maximum conducted output power

## Test Result Channel Power

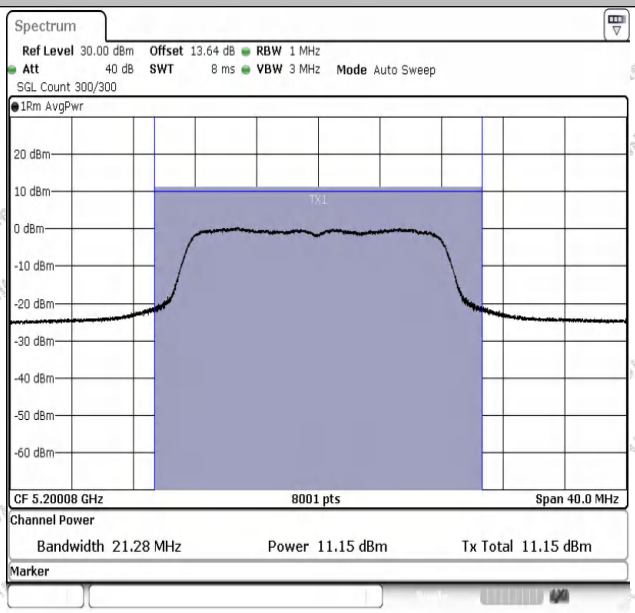
| Test Mode | Antenna | Frequency [MHz] | Set Power | Channel Power [dBm] | Duty Cycle [%] | DC Factor [dB] | Result [dBm] | Limit [dBm] | Verdict |
|---|---|---|---|---|---|---|---|---|---|
| 11A | Ant1 | 5180 | --- | 11.60 | 80.95 | 0.92 | 12.52 | ≤23.98 | PASS |
| 11A | Ant1 | 5200 | --- | 11.15 | 80.95 | 0.92 | 12.07 | ≤23.98 | PASS |
| 11A | Ant1 | 5240 | --- | 10.51 | 85.00 | 0.71 | 11.22 | ≤23.98 | PASS |
| 11A | Ant1 | 5745 | --- | 11.02 | 80.95 | 0.92 | 11.94 | ≤30.00 | PASS |
| 11A | Ant1 | 5785 | --- | 11.43 | 85.71 | 0.67 | 12.10 | ≤30.00 | PASS |
| 11A | Ant1 | 5825 | --- | 11.76 | 85.00 | 0.71 | 12.47 | ≤30.00 | PASS |
| 11N20SISO | Ant1 | 5180 | --- | 11.72 | 80.00 | 0.97 | 12.69 | ≤23.98 | PASS |
| 11N20SISO | Ant1 | 5200 | --- | 11.30 | 84.21 | 0.75 | 12.05 | ≤23.98 | PASS |
| 11N20SISO | Ant1 | 5240 | --- | 10.68 | 84.21 | 0.75 | 11.43 | ≤23.98 | PASS |
| 11N20SISO | Ant1 | 5745 | --- | 11.13 | 80.00 | 0.97 | 12.10 | ≤30.00 | PASS |
| 11N20SISO | Ant1 | 5785 | --- | 11.45 | 84.21 | 0.75 | 12.20 | ≤30.00 | PASS |
| 11N20SISO | Ant1 | 5825 | --- | 11.60 | 84.21 | 0.75 | 12.35 | ≤30.00 | PASS |
| 11N40SISO | Ant1 | 5190 | --- | 10.99 | 76.92 | 1.14 | 12.13 | ≤23.98 | PASS |
| 11N40SISO | Ant1 | 5230 | --- | 10.33 | 76.92 | 1.14 | 11.47 | ≤23.98 | PASS |
| 11N40SISO | Ant1 | 5755 | --- | 10.63 | 76.92 | 1.14 | 11.77 | ≤30.00 | PASS |
| 11N40SISO | Ant1 | 5795 | --- | 11.23 | 76.92 | 1.14 | 12.37 | ≤30.00 | PASS |
| 11AC20SISO | Ant1 | 5180 | --- | 11.58 | 77.78 | 1.09 | 12.67 | ≤23.98 | PASS |
| 11AC20SISO | Ant1 | 5200 | --- | 11.10 | 82.35 | 0.84 | 11.94 | ≤23.98 | PASS |
| 11AC20SISO | Ant1 | 5240 | --- | 10.53 | 83.33 | 0.79 | 11.32 | ≤23.98 | PASS |
| 11AC20SISO | Ant1 | 5745 | --- | 10.94 | 83.33 | 0.79 | 11.73 | ≤30.00 | PASS |
| 11AC20SISO | Ant1 | 5785 | --- | 11.30 | 83.33 | 0.79 | 12.09 | ≤30.00 | PASS |
| 11AC20SISO | Ant1 | 5825 | --- | 11.46 | 77.78 | 1.09 | 12.55 | ≤30.00 | PASS |
| 11AC40SISO | Ant1 | 5190 | --- | 10.85 | 75.00 | 1.25 | 12.10 | ≤23.98 | PASS |
| 11AC40SISO | Ant1 | 5230 | --- | 10.23 | 75.00 | 1.25 | 11.48 | ≤23.98 | PASS |
| 11AC40SISO | Ant1 | 5755 | --- | 10.36 | 75.00 | 1.25 | 11.61 | ≤30.00 | PASS |
| 11AC40SISO | Ant1 | 5795 | --- | 10.68 | 75.00 | 1.25 | 11.93 | ≤30.00 | PASS |
| 11AX20SISO | Ant1 | 5180 | --- | 9.37 | 71.43 | 1.46 | 10.83 | ≤23.98 | PASS |
| 11AX20SISO | Ant1 | 5200 | --- | 8.83 | 71.43 | 1.46 | 10.29 | ≤23.98 | PASS |
| 11AX20SISO | Ant1 | 5240 | --- | 8.11 | 71.43 | 1.46 | 9.57 | ≤23.98 | PASS |
| 11AX20SISO | Ant1 | 5745 | --- | 8.10 | 78.57 | 1.05 | 9.15 | ≤30.00 | PASS |
| 11AX20SISO | Ant1 | 5785 | --- | 8.52 | 78.57 | 1.05 | 9.57 | ≤30.00 | PASS |
| 11AX20SISO | Ant1 | 5825 | --- | 8.67 | 78.57 | 1.05 | 9.72 | ≤30.00 | PASS |
| 11AX40SISO | Ant1 | 5190 | --- | 8.72 | 66.67 | 1.76 | 10.48 | ≤23.98 | PASS |
| 11AX40SISO | Ant1 | 5230 | --- | 7.97 | 72.73 | 1.38 | 9.35 | ≤23.98 | PASS |
| 11AX40SISO | Ant1 | 5755 | --- | 7.77 | 66.67 | 1.76 | 9.53 | ≤30.00 | PASS |
| 11AX40SISO | Ant1 | 5795 | --- | 8.29 | 72.73 | 1.38 | 9.67 | ≤30.00 | PASS |

Note：1.The cable loss are compensated in the graph.

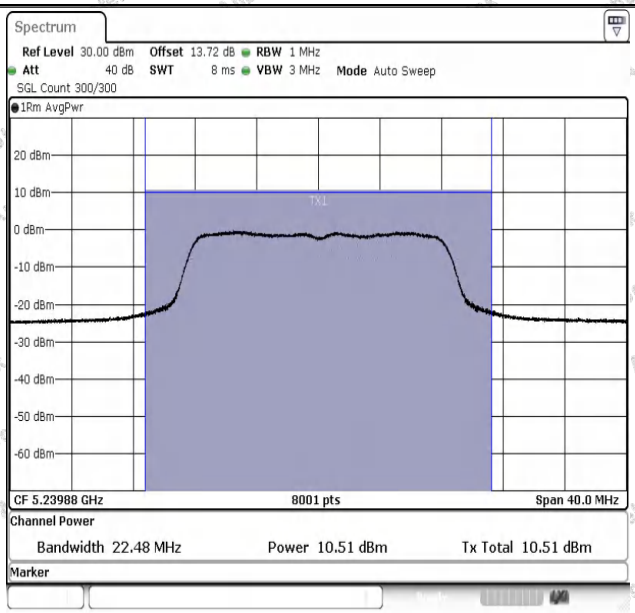
## Test Graphs Channel Power



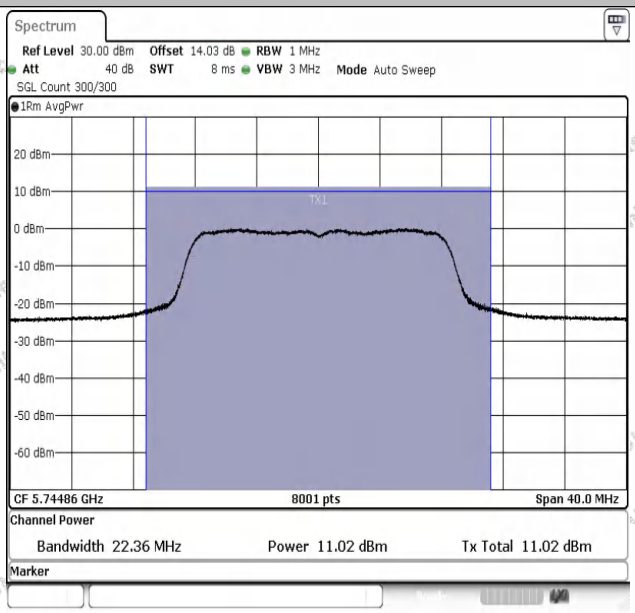

11A-Ant1-5180-PASS



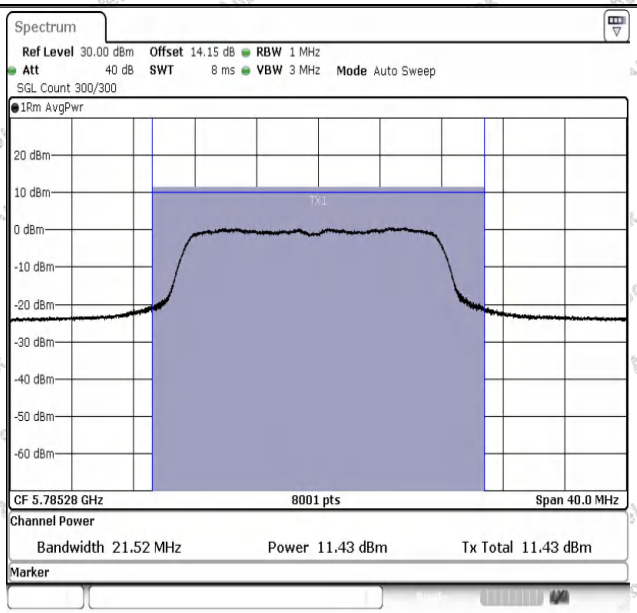

11A-Ant1-5200-PASS



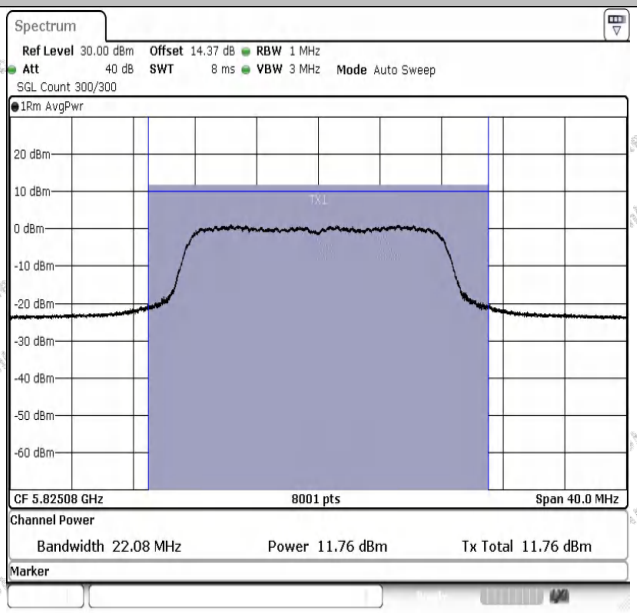

11A-Ant1-5240-PASS



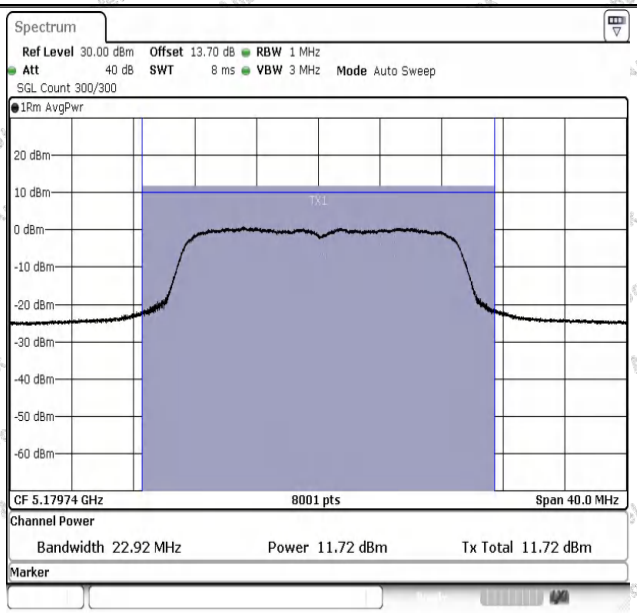

11A-Ant1-5745-PASS



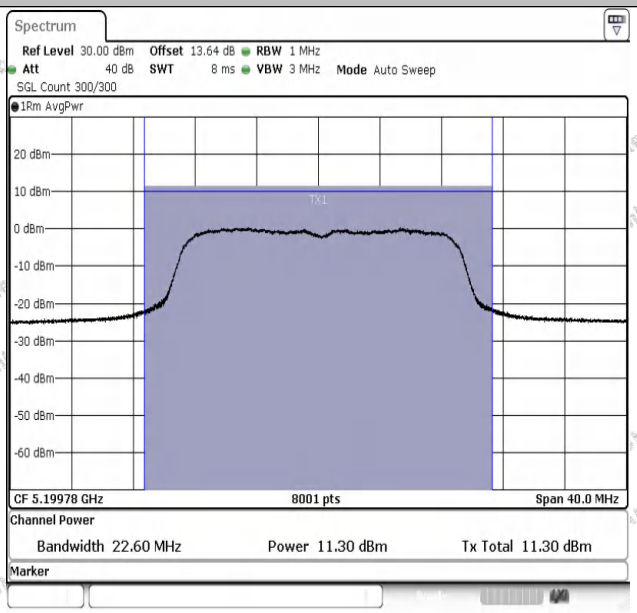

11A-Ant1-5785-PASS



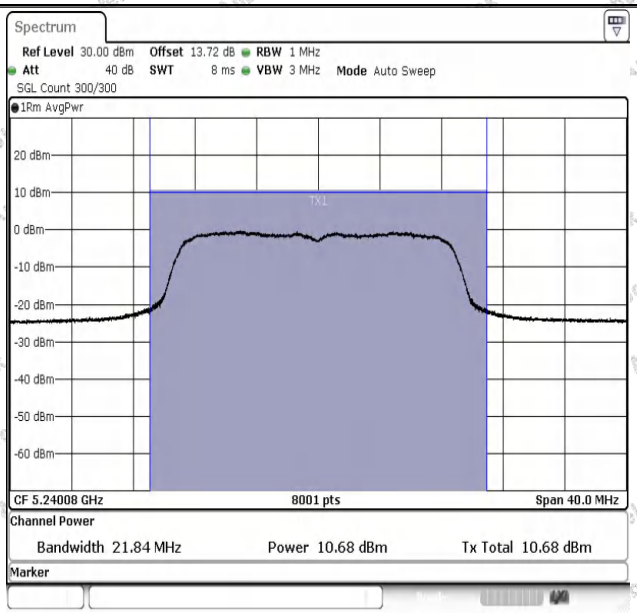

11A-Ant1-5825-PASS



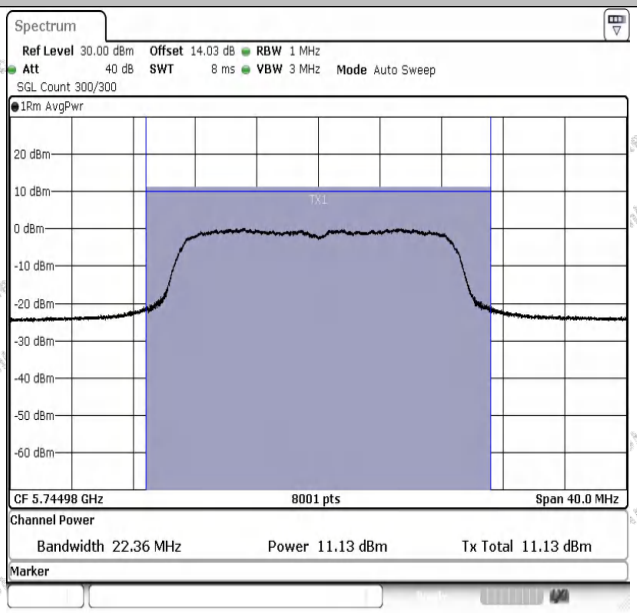

11N20SISO-Ant1-5180-PASS



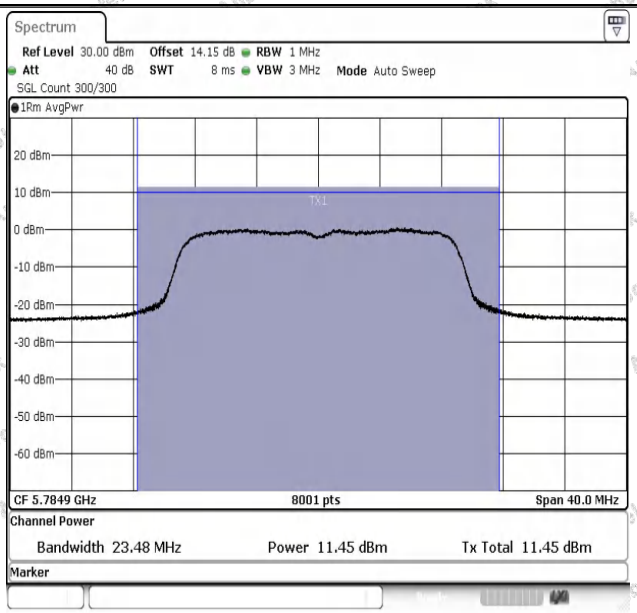

11N20SISO-Ant1-5200-PASS



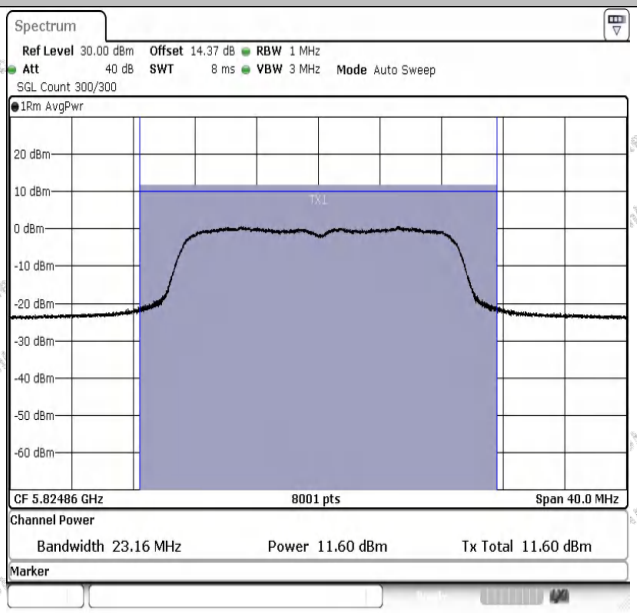

11N20SISO-Ant1-5240-PASS



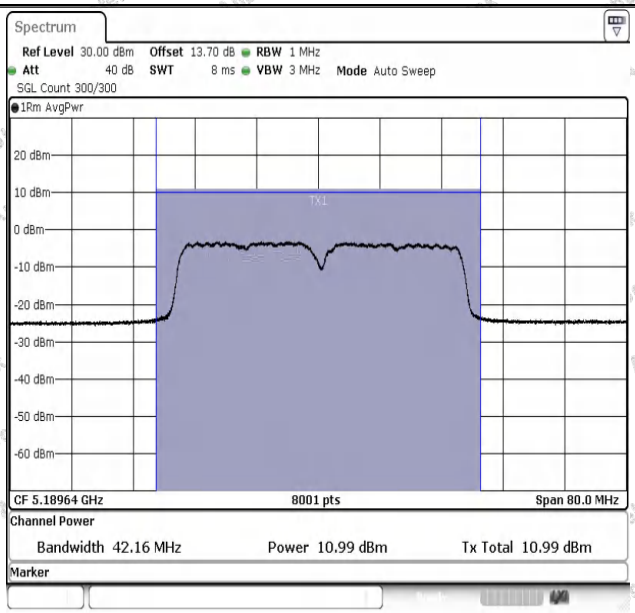

11N20SISO-Ant1-5745-PASS



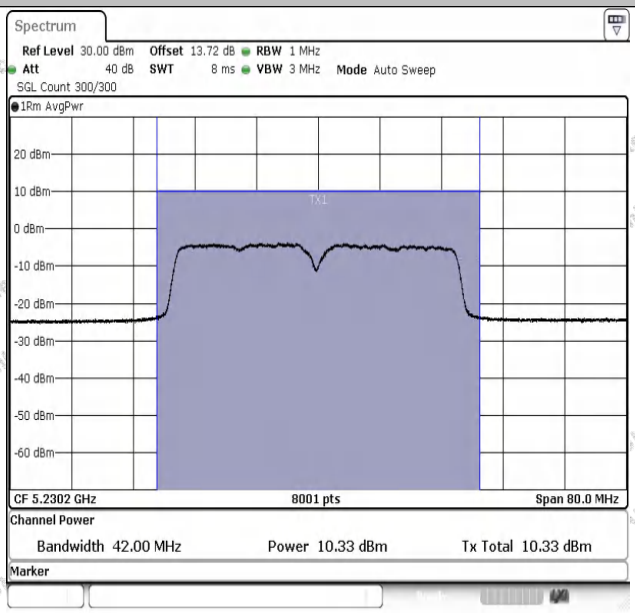

11N20SISO-Ant1-5785-PASS



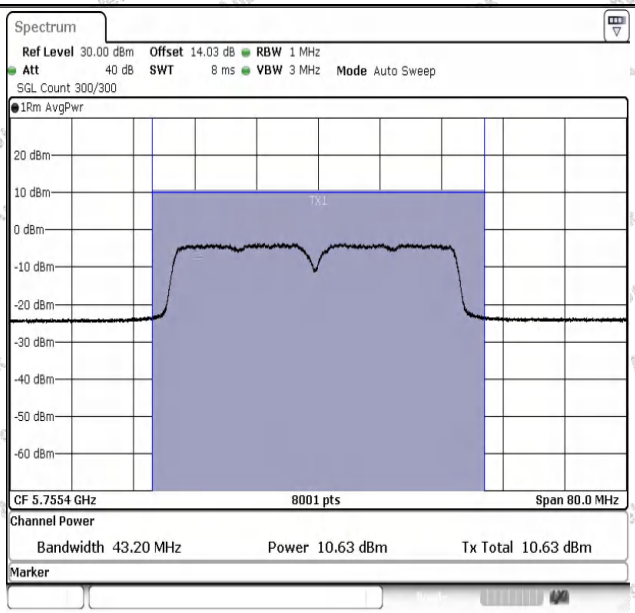

11N20SISO-Ant1-5825-PASS



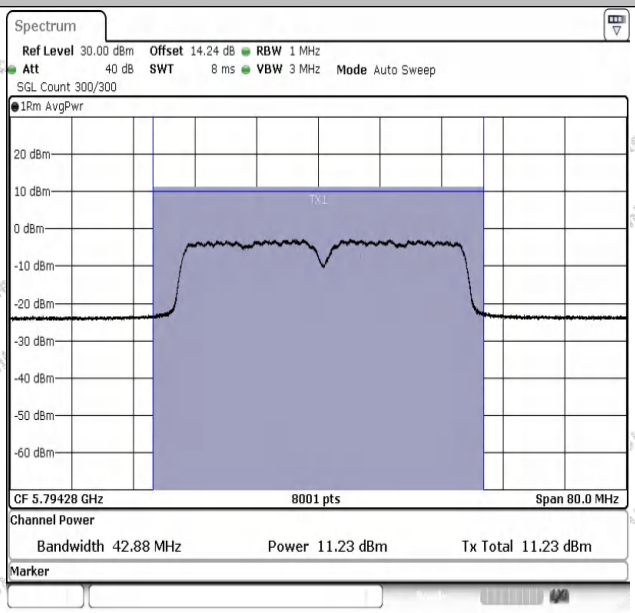

11N40SISO-Ant1-5190-PASS



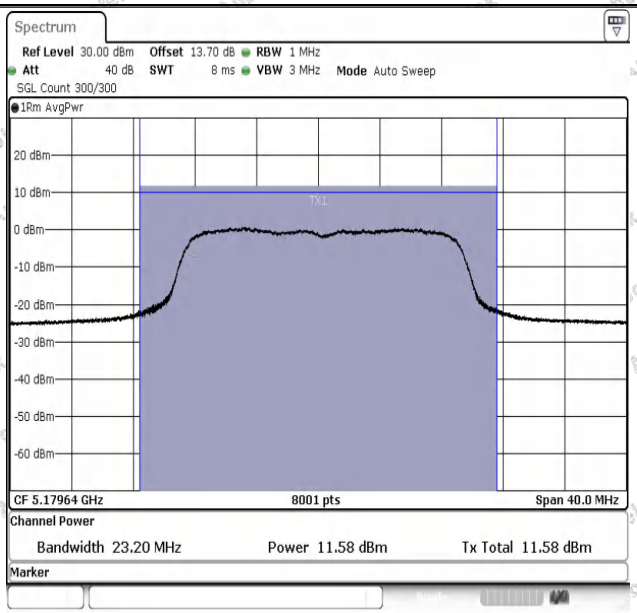

11N40SISO-Ant1-5230-PASS



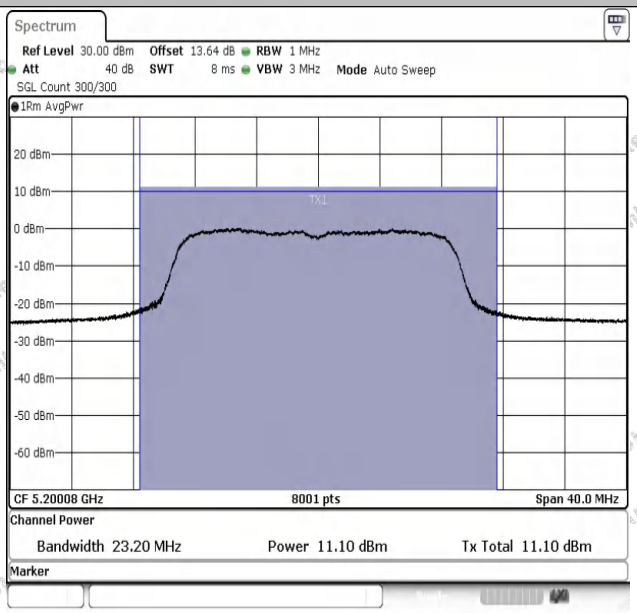

11N40SISO-Ant1-5755-PASS



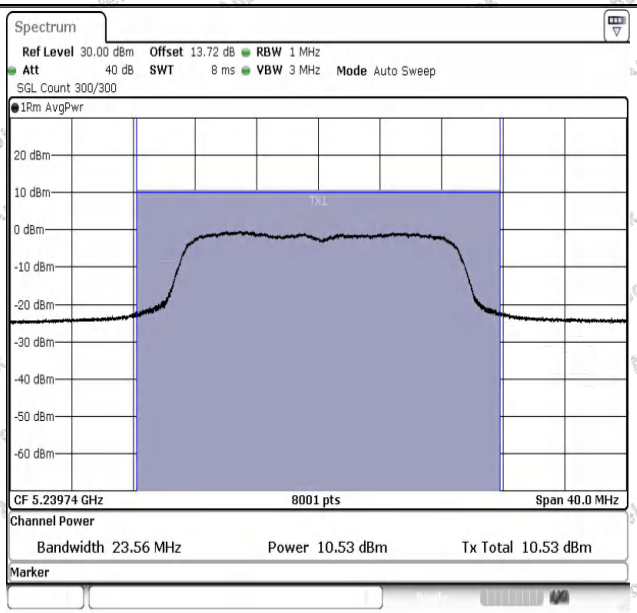

11N40SISO-Ant1-5795-PASS



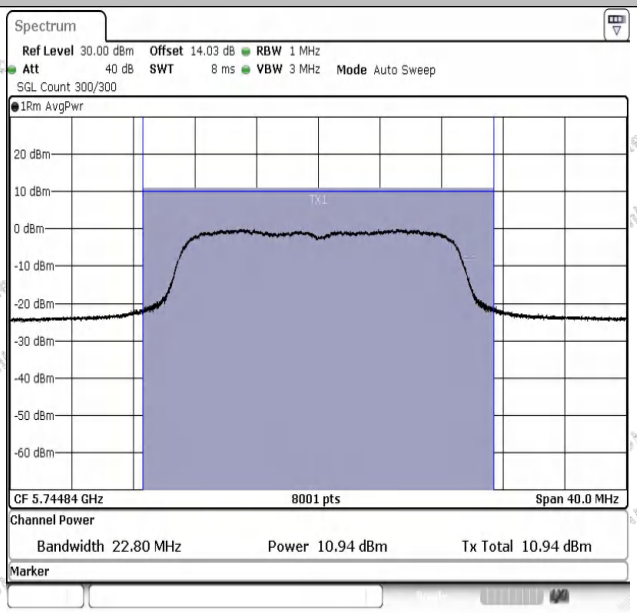

11AC20SISO-Ant1-5180-PASS



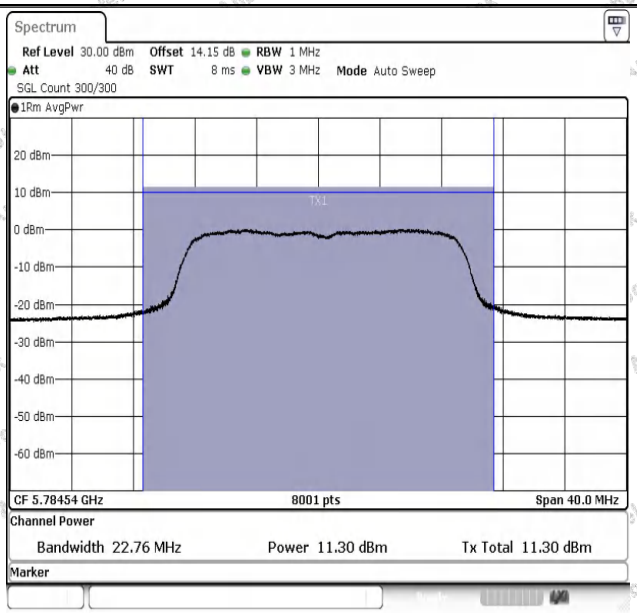

11AC20SISO-Ant1-5200-PASS



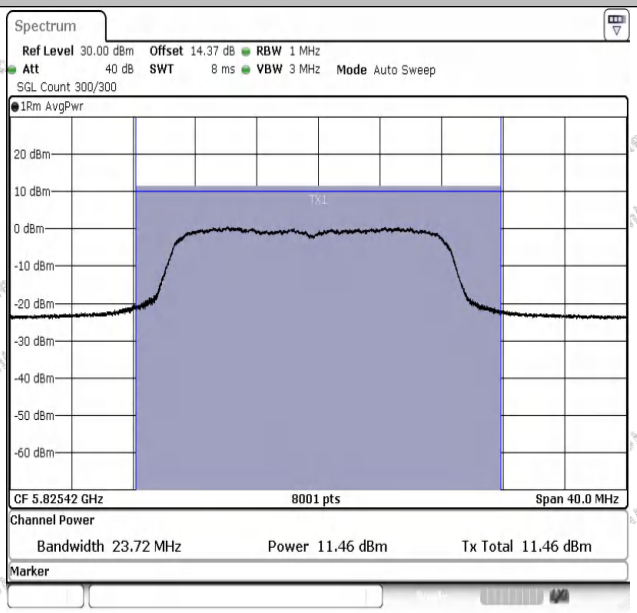

11AC20SISO-Ant1-5240-PASS



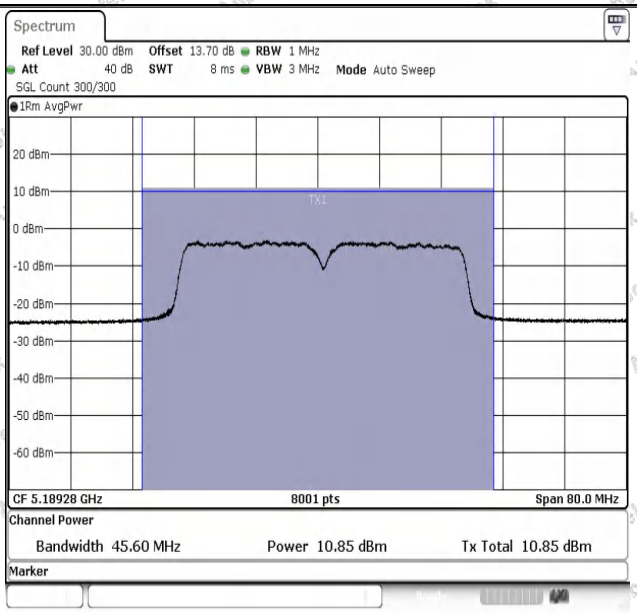

11AC20SISO-Ant1-5745-PASS



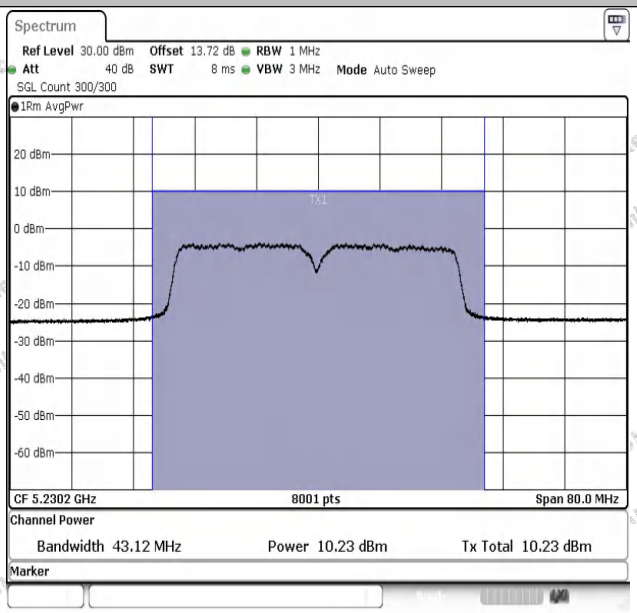

11AC20SISO-Ant1-5785-PASS



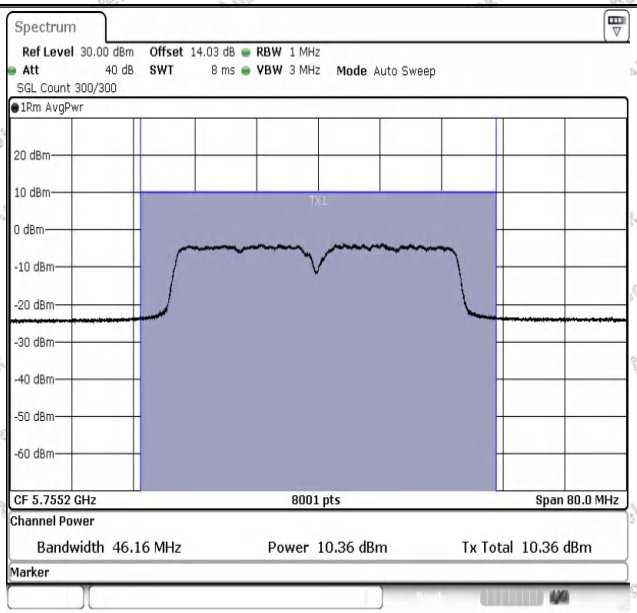

11AC20SISO-Ant1-5825-PASS



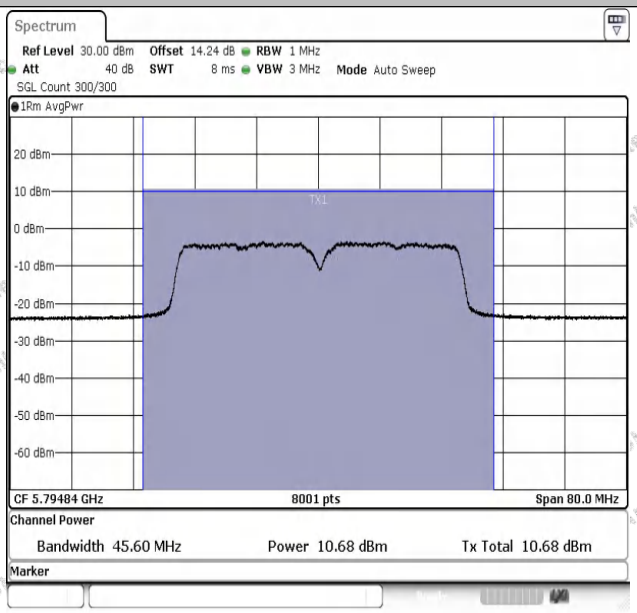

11AC40SISO-Ant1-5190-PASS



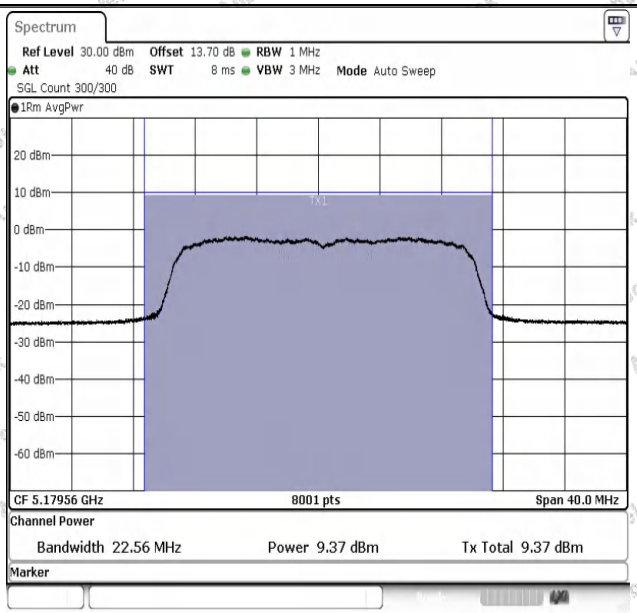

11AC40SISO-Ant1-5230-PASS



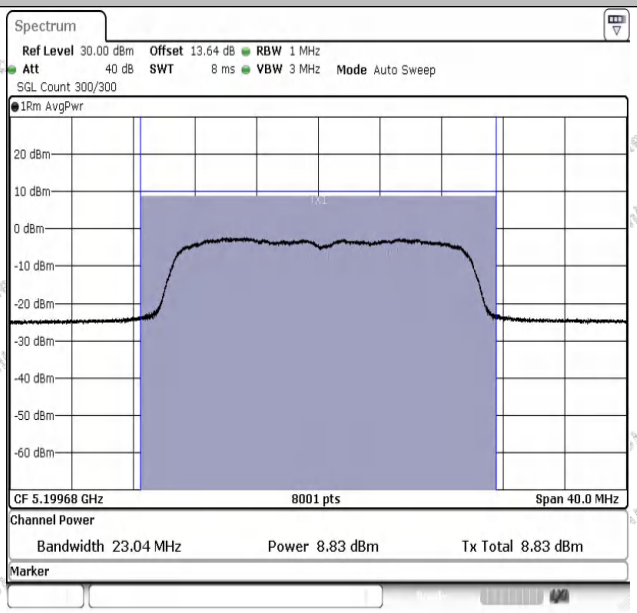

11AC40SISO-Ant1-5755-PASS



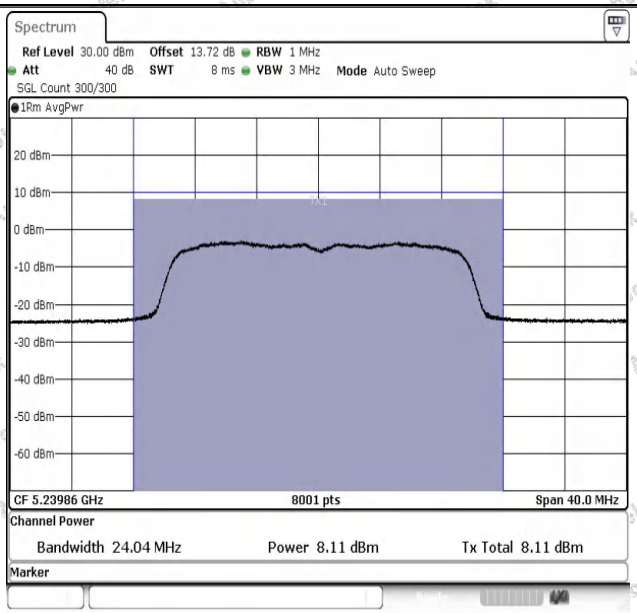

11AC40SISO-Ant1-5795-PASS



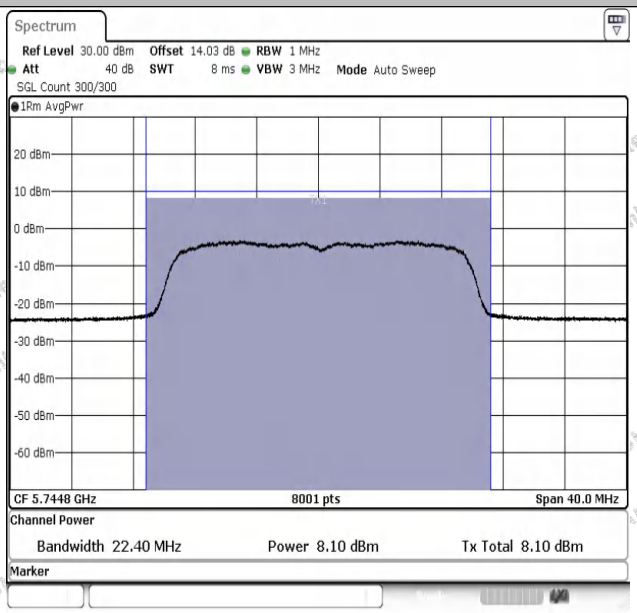

11AX20SISO-Ant1-5180-PASS



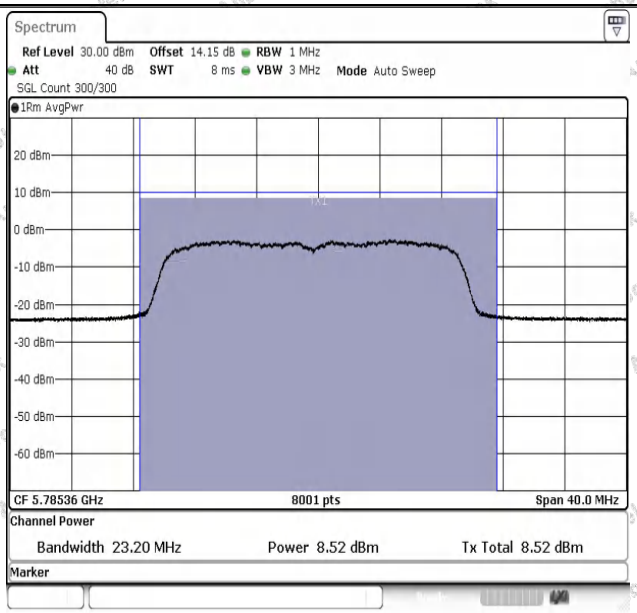

11AX20SISO-Ant1-5200-PASS



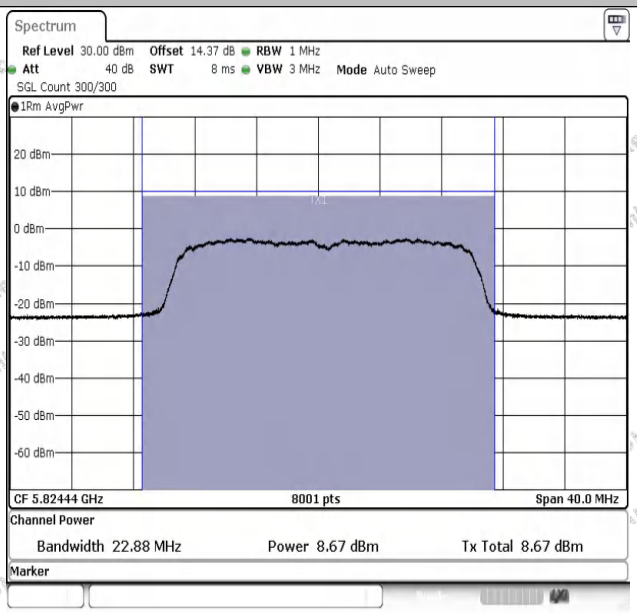

11AX20SISO-Ant1-5240-PASS



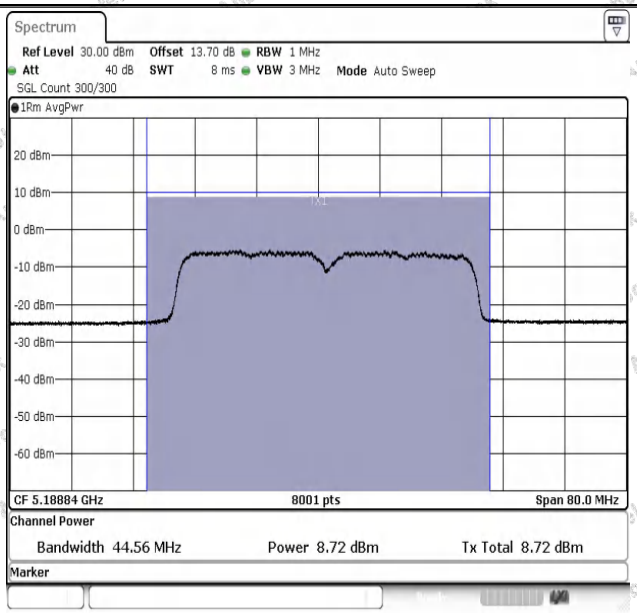

11AX20SISO-Ant1-5745-PASS



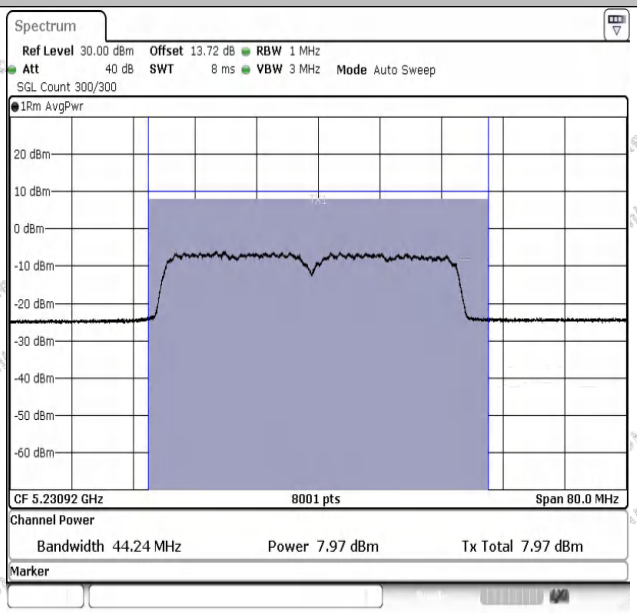

11AX20SISO-Ant1-5785-PASS



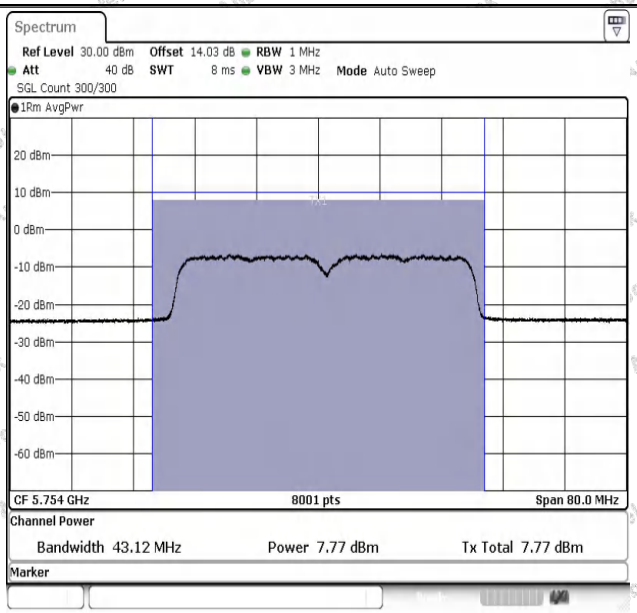

11AX20SISO-Ant1-5825-PASS



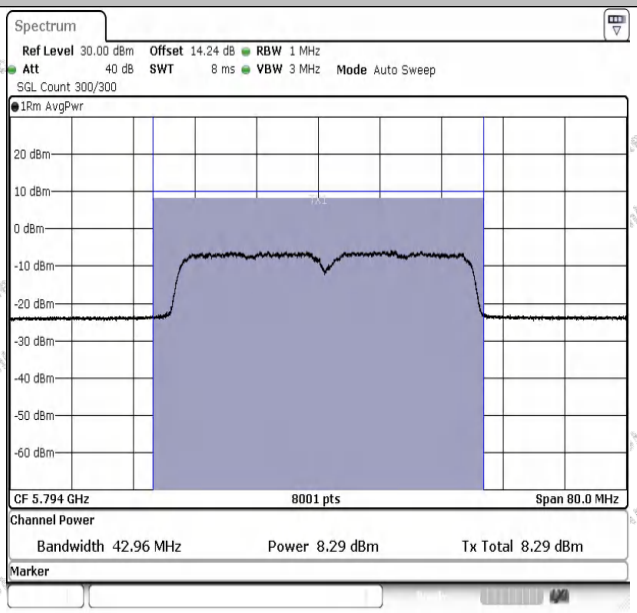

11AX40SISO-Ant1-5190-PASS




11AX40SISO-Ant1-5230-PASS




11AX40SISO-Ant1-5755-PASS




11AX40SISO-Ant1-5795-PASS

# Appendix D: Maximum power spectral density

## Test Result

| TestMode | Antenna | Frequency [MHz] | Reading Result [dBm/MHz] | DC Factor [dB] | Result [dBm/MHz] | Limit [dBm/MHz] | Verdict |
|---|---|---|---|---|---|---|---|
| 11A | Ant1 | 5180 | 1.23 | 0.92 | 2.15 | ≤11.00 | PASS |
| 11A | Ant1 | 5200 | -0.16 | 0.92 | 0.76 | ≤11.00 | PASS |
| 11A | Ant1 | 5240 | -0.29 | 0.71 | 0.42 | ≤11.00 | PASS |
| 11N20SISO | Ant1 | 5180 | 0.87 | 0.97 | 1.84 | ≤11.00 | PASS |
| 11N20SISO | Ant1 | 5200 | 0.63 | 0.75 | 1.38 | ≤11.00 | PASS |
| 11N20SISO | Ant1 | 5240 | -0.07 | 0.75 | 0.68 | ≤11.00 | PASS |
| 11N40SISO | Ant1 | 5190 | -3.27 | 1.14 | -2.13 | ≤11.00 | PASS |
| 11N40SISO | Ant1 | 5230 | -3.95 | 1.14 | -2.81 | ≤11.00 | PASS |
| 11AC20SISO | Ant1 | 5180 | -0.10 | 1.09 | 0.99 | ≤11.00 | PASS |
| 11AC20SISO | Ant1 | 5200 | -0.19 | 0.84 | 0.65 | ≤11.00 | PASS |
| 11AC20SISO | Ant1 | 5240 | -0.52 | 0.79 | 0.27 | ≤11.00 | PASS |
| 11AC40SISO | Ant1 | 5190 | -3.01 | 1.25 | -1.76 | ≤11.00 | PASS |
| 11AC40SISO | Ant1 | 5230 | -3.71 | 1.25 | -2.46 | ≤11.00 | PASS |
| 11AX20SISO | Ant1 | 5180 | -2.28 | 1.46 | -0.82 | ≤11.00 | PASS |
| 11AX20SISO | Ant1 | 5200 | -2.22 | 1.46 | -0.76 | ≤11.00 | PASS |
| 11AX20SISO | Ant1 | 5240 | -3.68 | 1.46 | -2.22 | ≤11.00 | PASS |
| 11AX40SISO | Ant1 | 5190 | -5.75 | 1.76 | -3.99 | ≤11.00 | PASS |
| 11AX40SISO | Ant1 | 5230 | -6.30 | 1.38 | -4.92 | ≤11.00 | PASS |

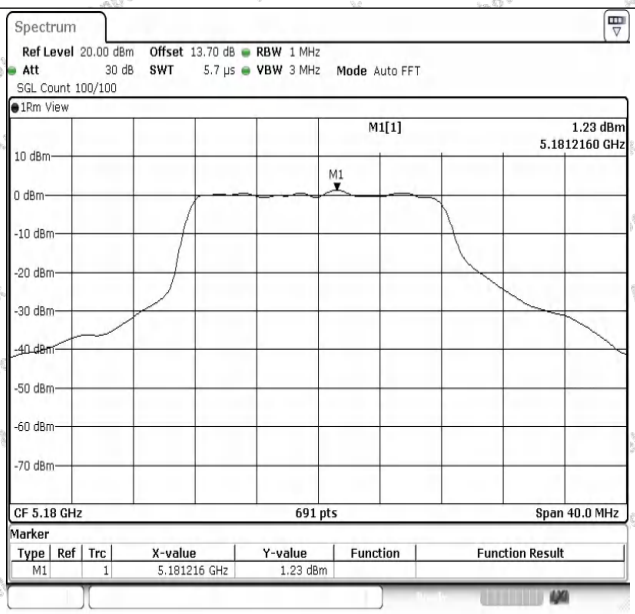
Note：1.The cable loss are compensated in the graph.

| TestMode | Antenna | Frequency[MHz] | Reading Result [dBm/500KHz] | DC Factor [dB] | Result [dBm/500KHz] | Limit [dBm/500KHz] | Verdict |
|---|---|---|---|---|---|---|---|
| 11A | Ant1 | 5745 | -2.95 | 0.92 | -2.03 | ≤30.00 | PASS |
| 11A | Ant1 | 5785 | -2.34 | 0.67 | -1.67 | ≤30.00 | PASS |
| 11A | Ant1 | 5825 | -1.97 | 0.71 | -1.26 | ≤30.00 | PASS |
| 11N20SISO | Ant1 | 5745 | -2.80 | 0.97 | -1.83 | ≤30.00 | PASS |
| 11N20SISO | Ant1 | 5785 | -2.72 | 0.75 | -1.97 | ≤30.00 | PASS |
| 11N20SISO | Ant1 | 5825 | -2.55 | 0.75 | -1.80 | ≤30.00 | PASS |
| 11N40SISO | Ant1 | 5755 | -6.07 | 1.14 | -4.93 | ≤30.00 | PASS |
| 11N40SISO | Ant1 | 5795 | -5.83 | 1.14 | -4.69 | ≤30.00 | PASS |
| 11AC20SISO | Ant1 | 5745 | -3.07 | 0.79 | -2.28 | ≤30.00 | PASS |
| 11AC20SISO | Ant1 | 5785 | -2.51 | 0.79 | -1.72 | ≤30.00 | PASS |
| 11AC20SISO | Ant1 | 5825 | -2.48 | 1.09 | -1.39 | ≤30.00 | PASS |

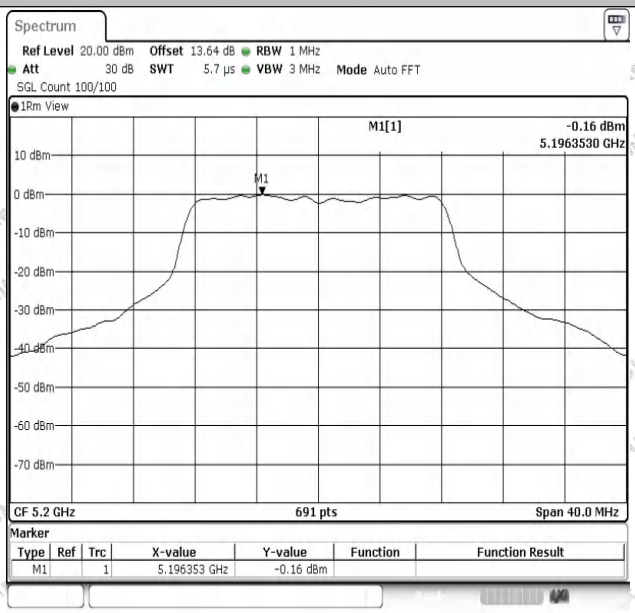
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 11AC40SISO | Ant1 | 5755 | -5.85 | 1.25 | -4.60 | ≤30.00 | PASS |
| 11AC40SISO | Ant1 | 5795 | -6.08 | 1.25 | -4.83 | ≤30.00 | PASS |
| 11AX20SISO | Ant1 | 5745 | -5.78 | 1.05 | -4.73 | ≤30.00 | PASS |
| 11AX20SISO | Ant1 | 5785 | -5.50 | 1.05 | -4.45 | ≤30.00 | PASS |
| 11AX20SISO | Ant1 | 5825 | -5.03 | 1.05 | -3.98 | ≤30.00 | PASS |
| 11AX40SISO | Ant1 | 5755 | -8.63 | 1.76 | -6.87 | ≤30.00 | PASS |
| 11AX40SISO | Ant1 | 5795 | -8.31 | 1.38 | -6.93 | ≤30.00 | PASS |

Note：1.The cable loss are compensated in the graph.

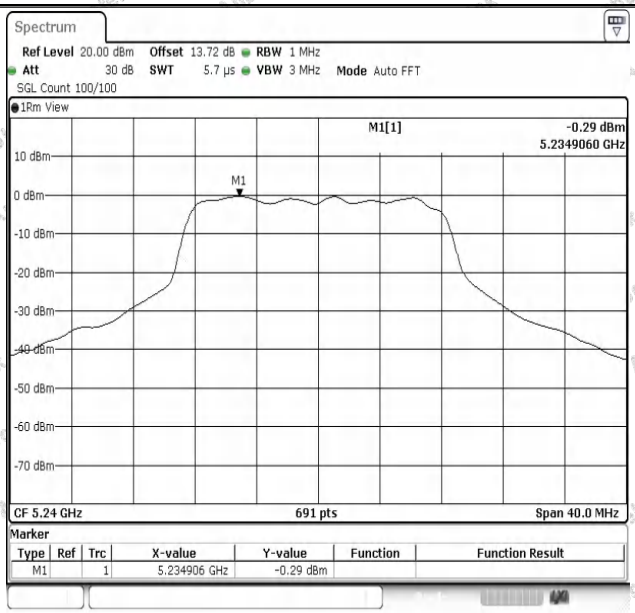
## Test Graphs



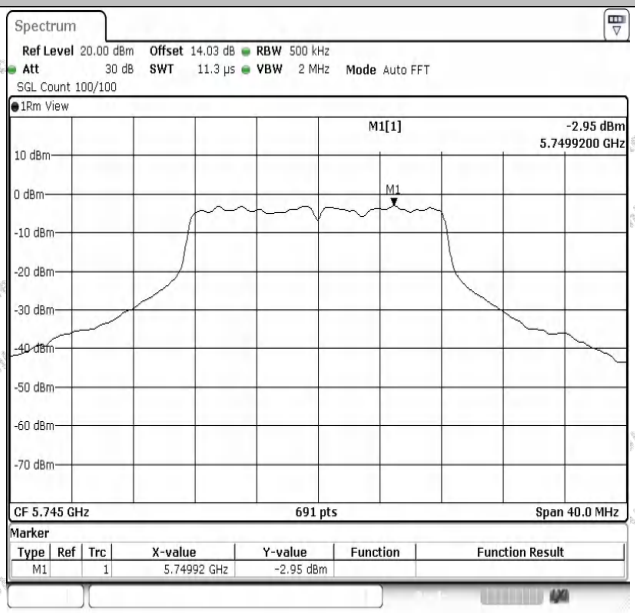

11A-Ant1-5180-PASS



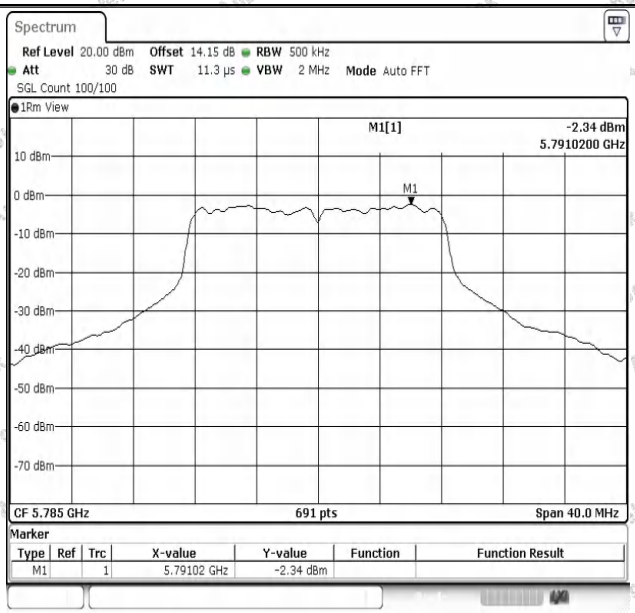

11A-Ant1-5200-PASS



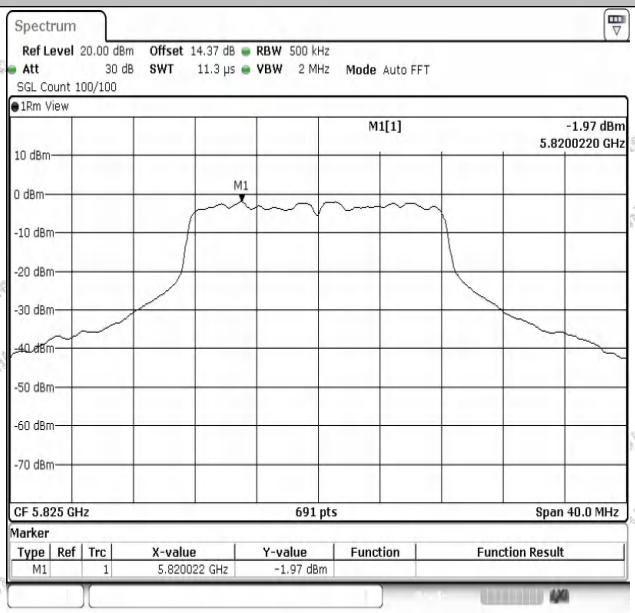

11A-Ant1-5240-PASS



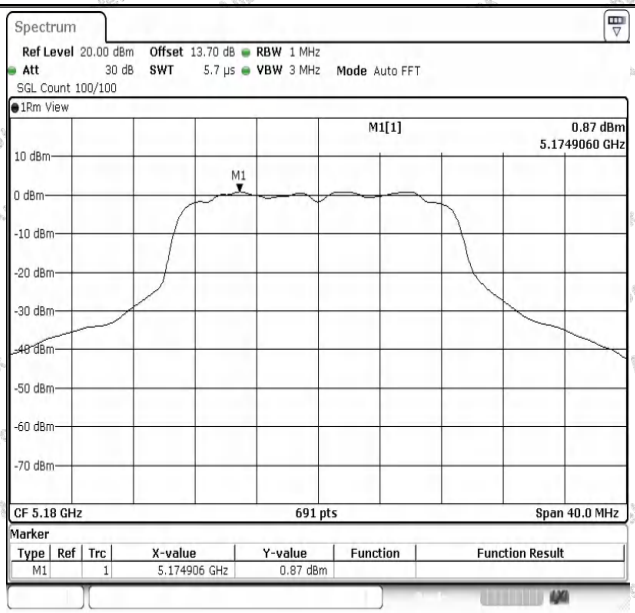

11A-Ant1-5745-PASS



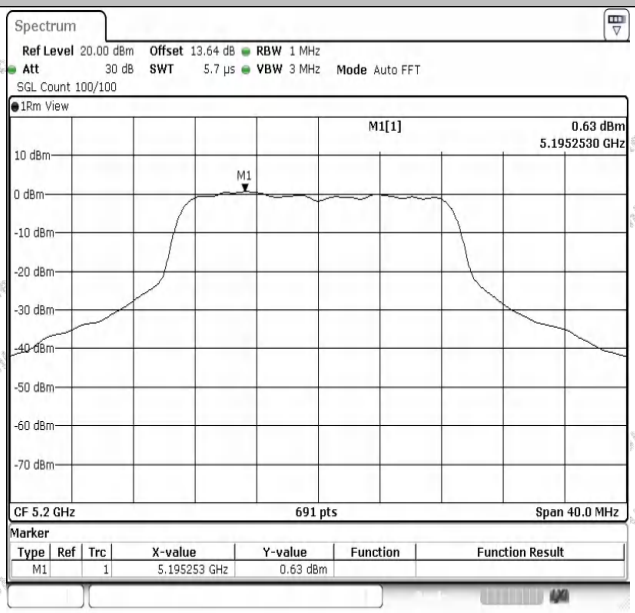

11A-Ant1-5785-PASS



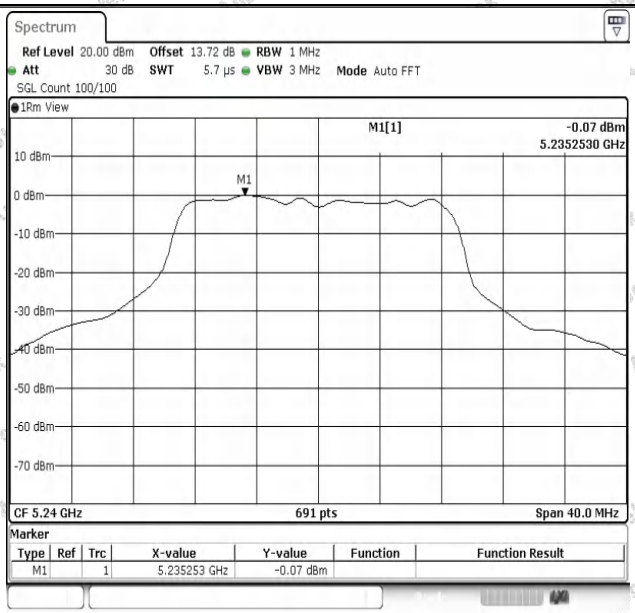

11A-Ant1-5825-PASS



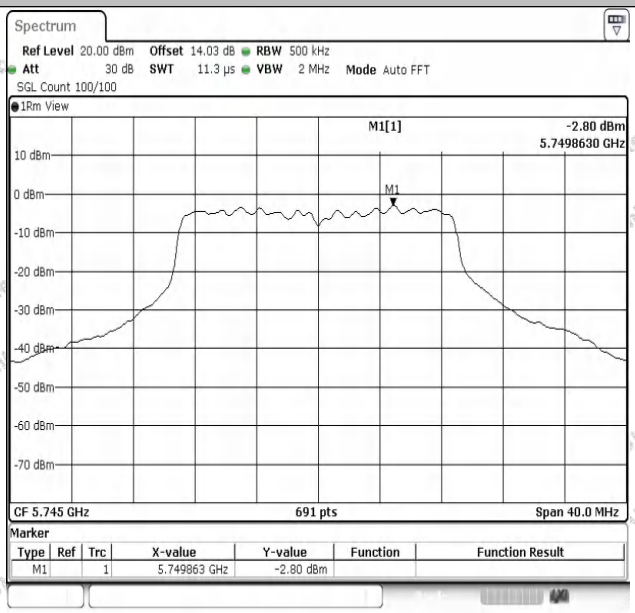

11N20SISO-Ant1-5180-PASS



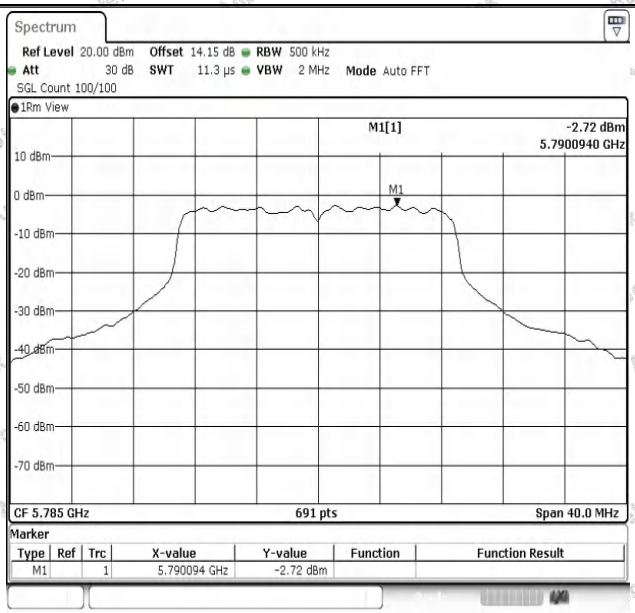

11N20SISO-Ant1-5200-PASS



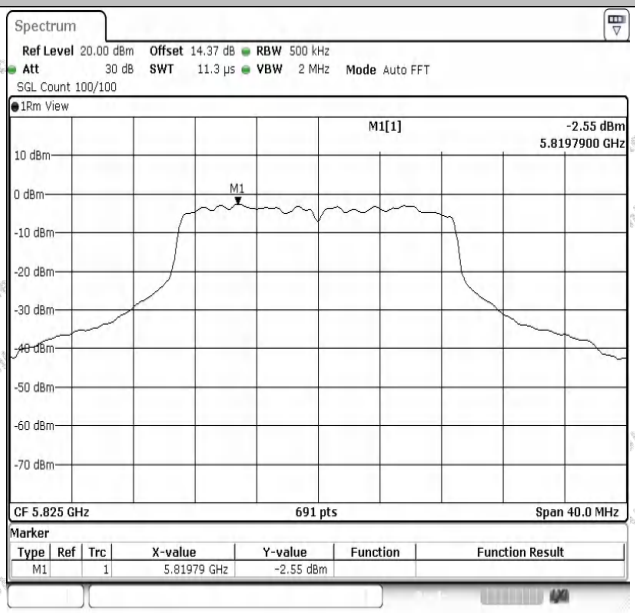

11N20SISO-Ant1-5240-PASS



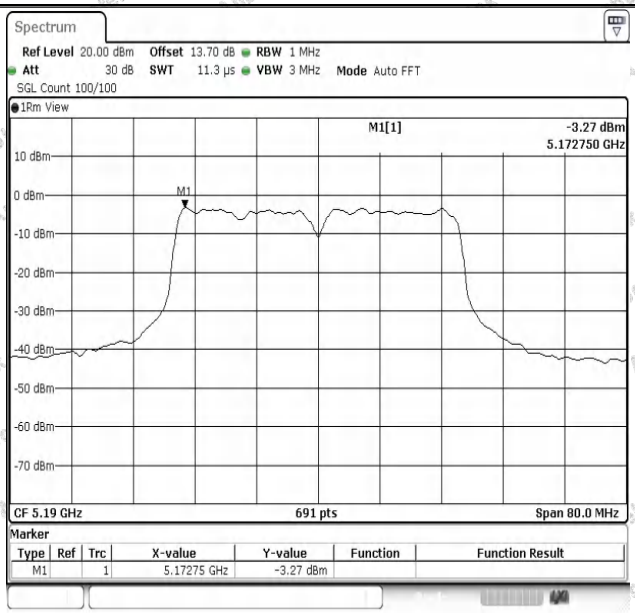

11N20SISO-Ant1-5745-PASS



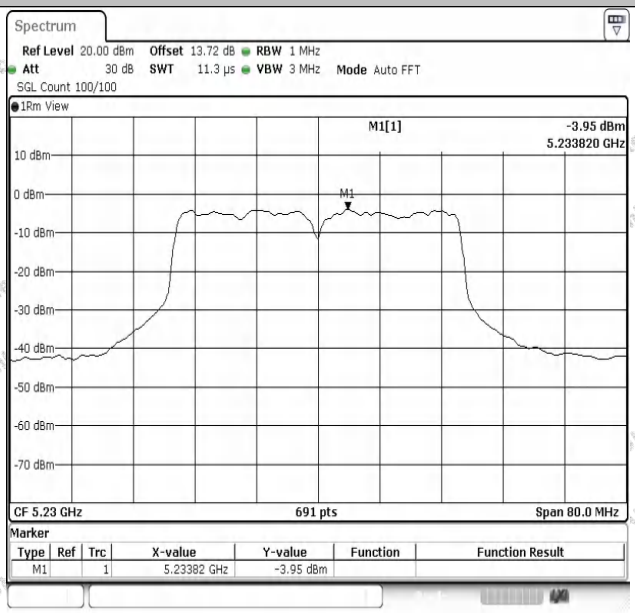

11N20SISO-Ant1-5785-PASS



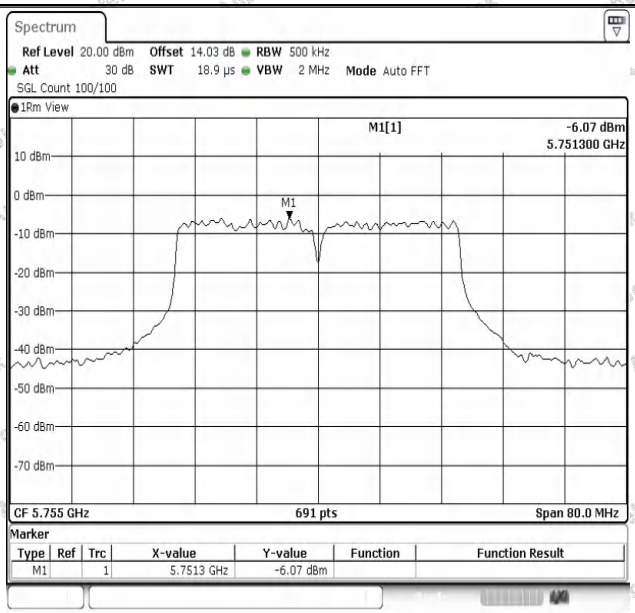

11N20SISO-Ant1-5825-PASS



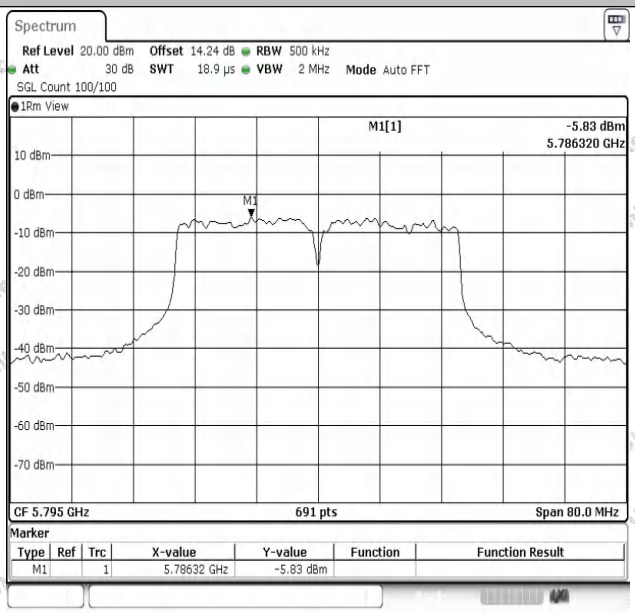

11N40SISO-Ant1-5190-PASS



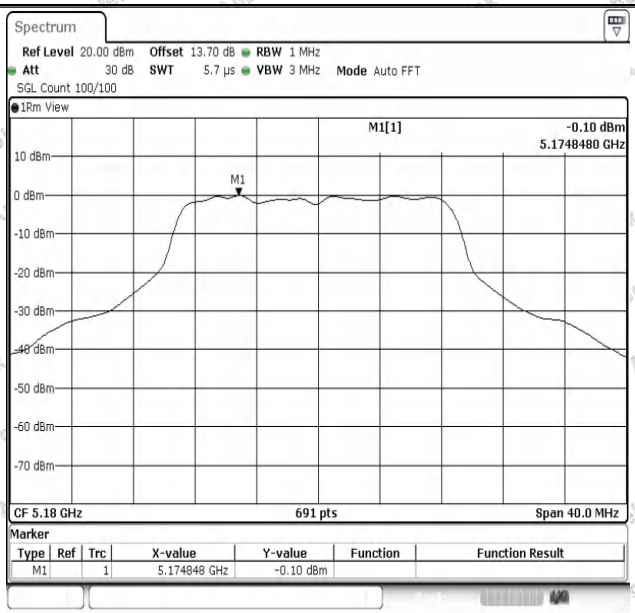

11N40SISO-Ant1-5230-PASS



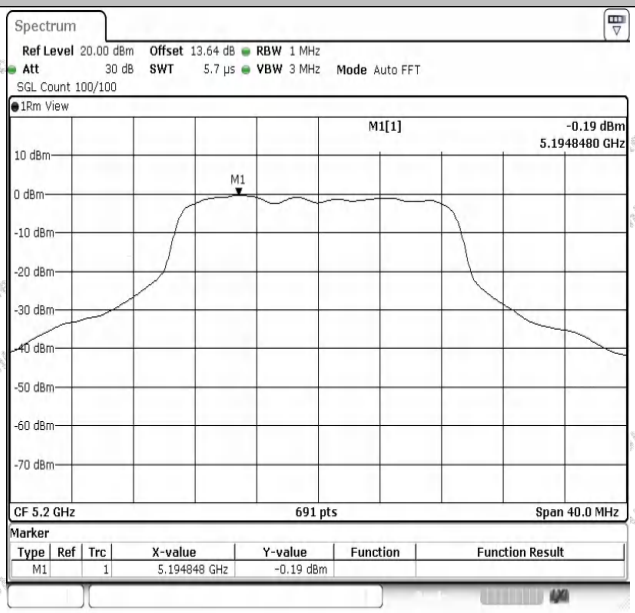

11N40SISO-Ant1-5755-PASS



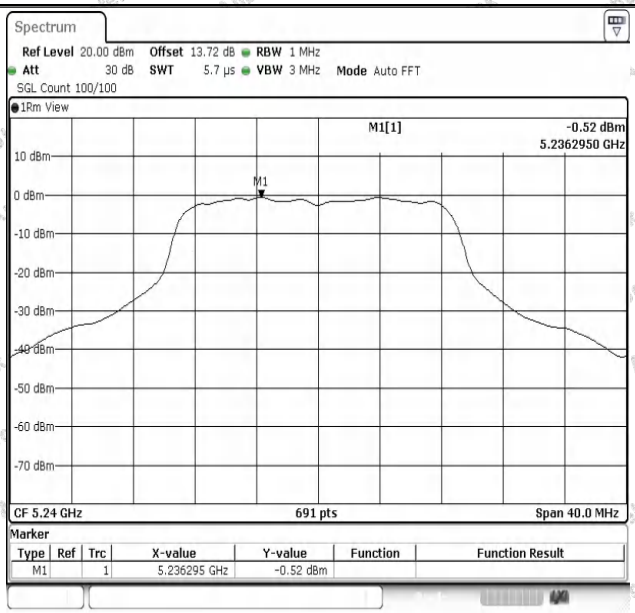

11N40SISO-Ant1-5795-PASS



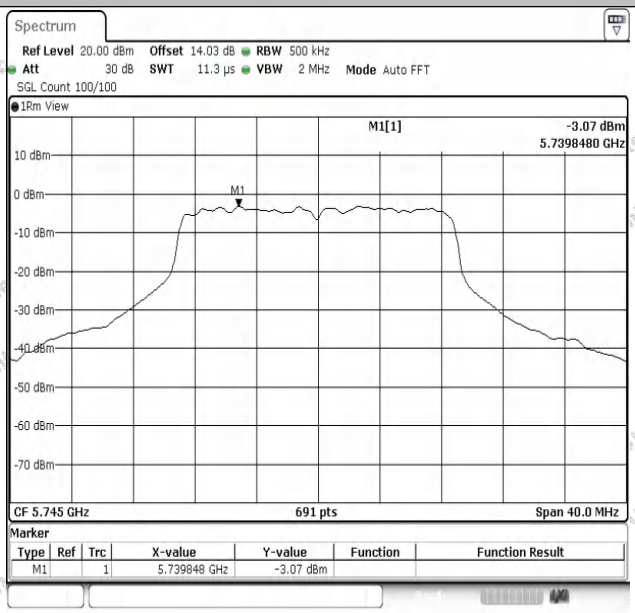

11AC20SISO-Ant1-5180-PASS



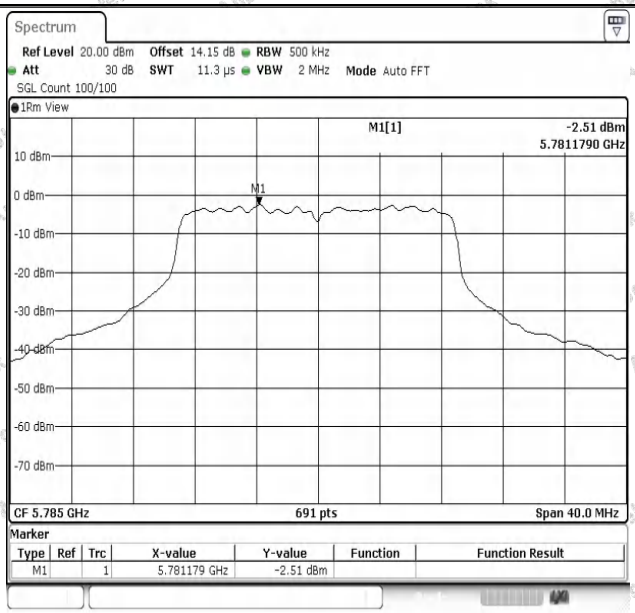

11AC20SISO-Ant1-5200-PASS



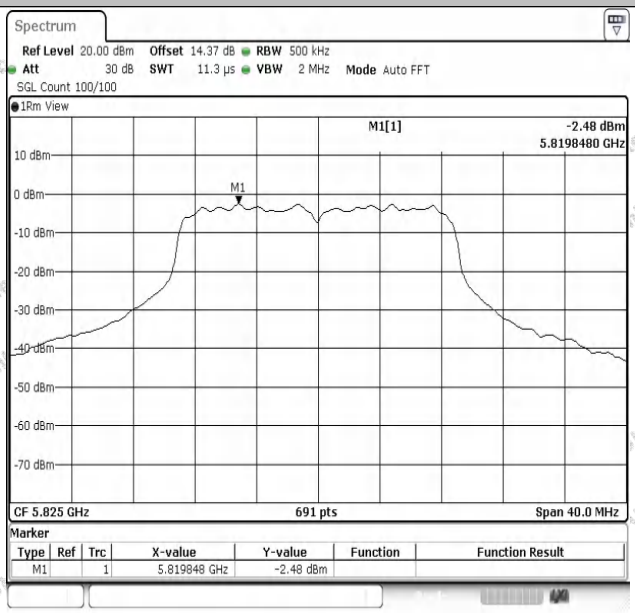

11AC20SISO-Ant1-5240-PASS



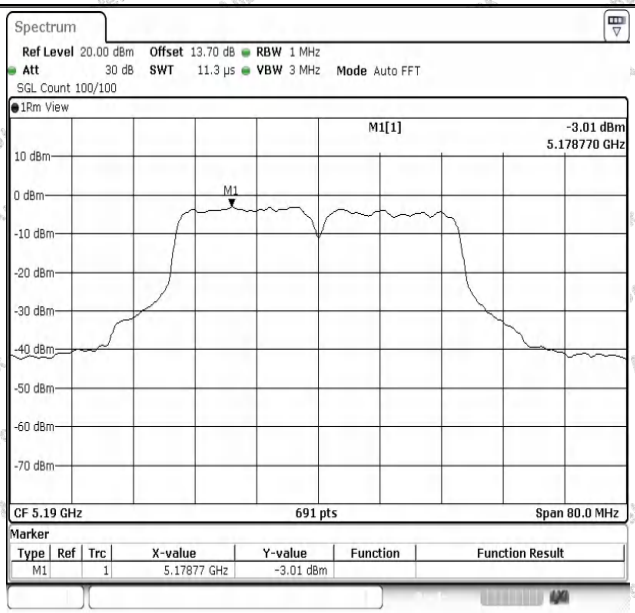

11AC20SISO-Ant1-5745-PASS



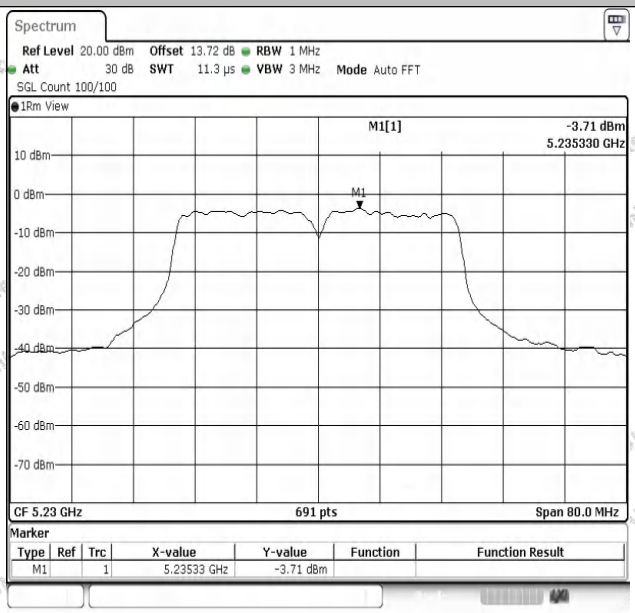

11AC20SISO-Ant1-5785-PASS



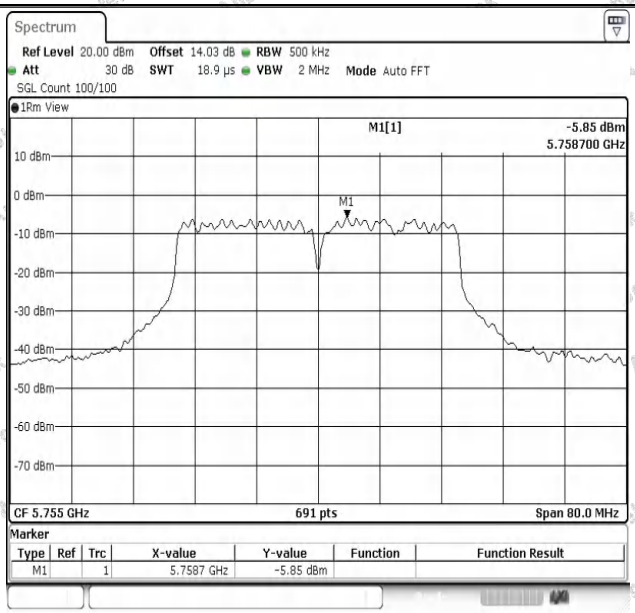

11AC20SISO-Ant1-5825-PASS



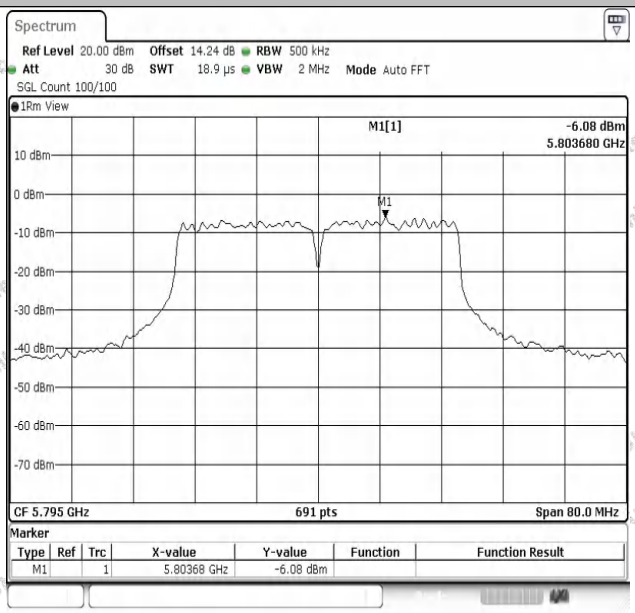

11AC40SISO-Ant1-5190-PASS



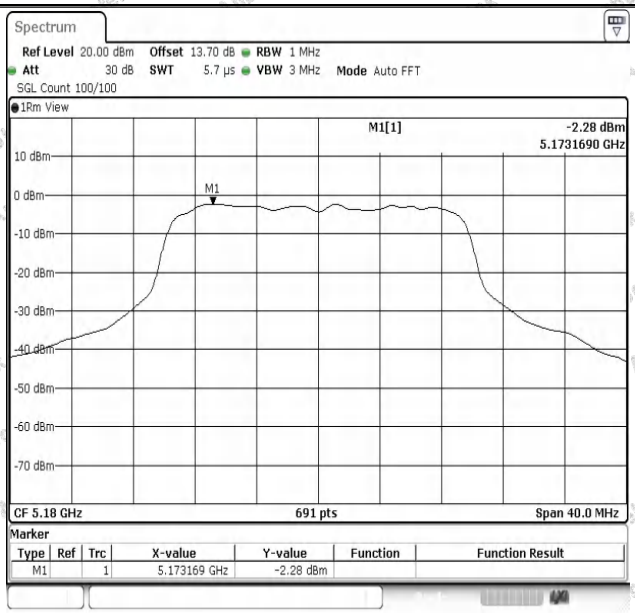

11AC40SISO-Ant1-5230-PASS



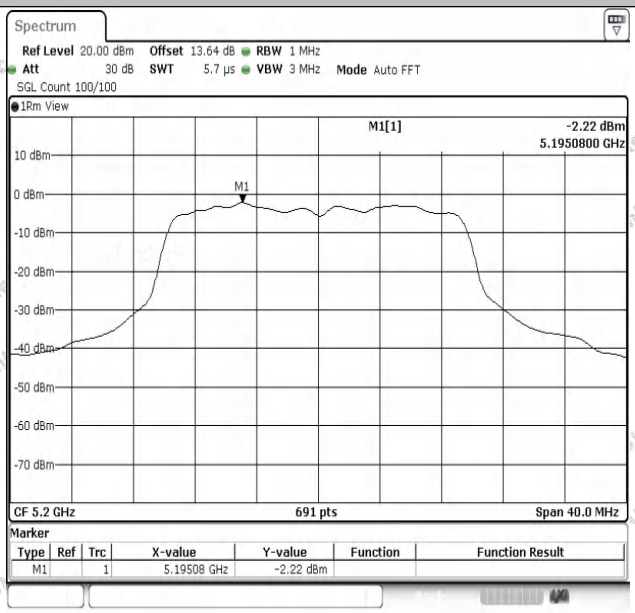

11AC40SISO-Ant1-5755-PASS



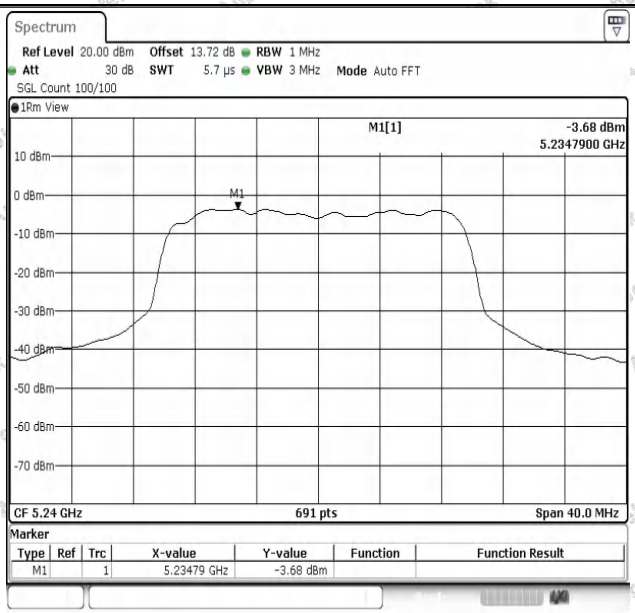

11AC40SISO-Ant1-5795-PASS



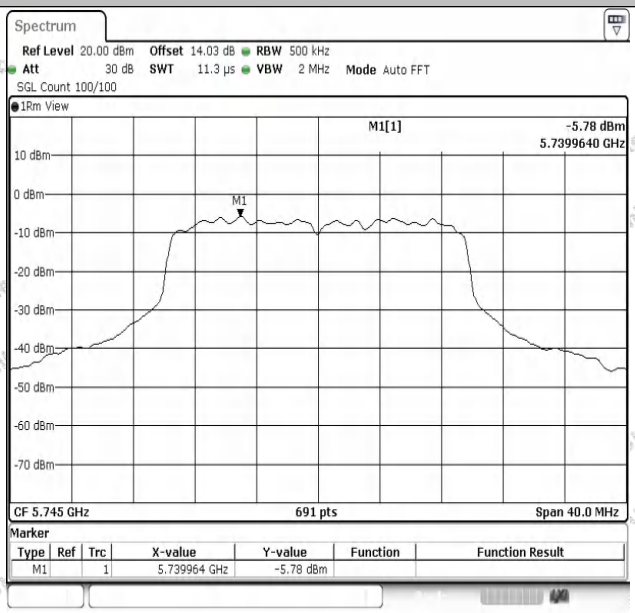

11AX20SISO-Ant1-5180-PASS



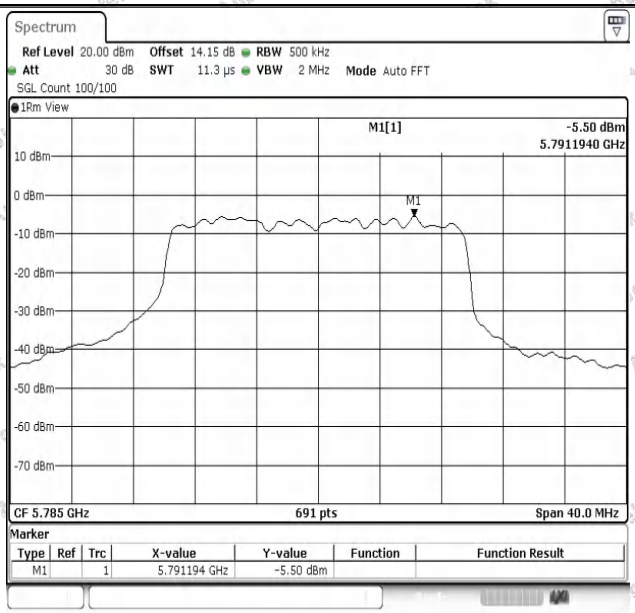

11AX20SISO-Ant1-5200-PASS



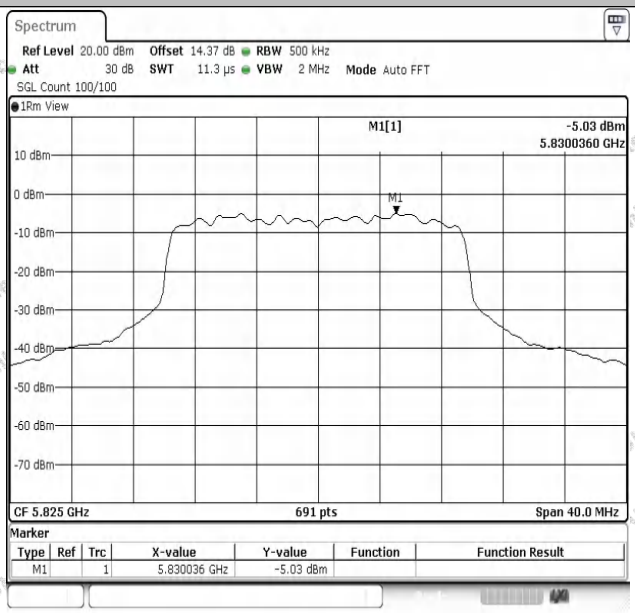

11AX20SISO-Ant1-5240-PASS



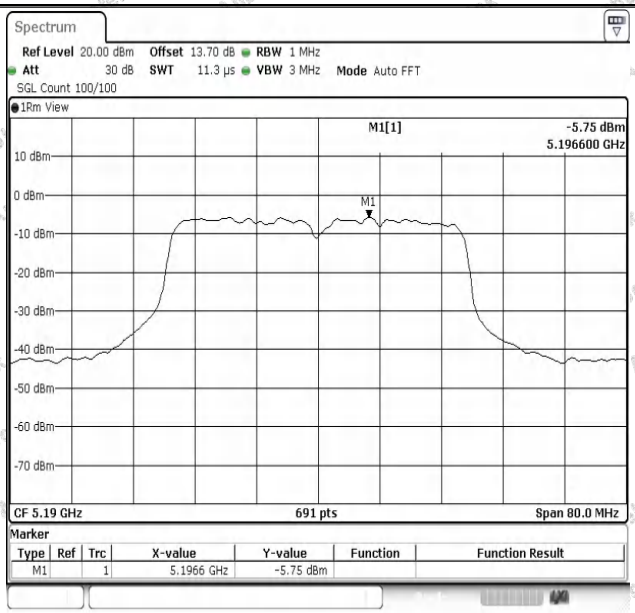

11AX20SISO-Ant1-5745-PASS



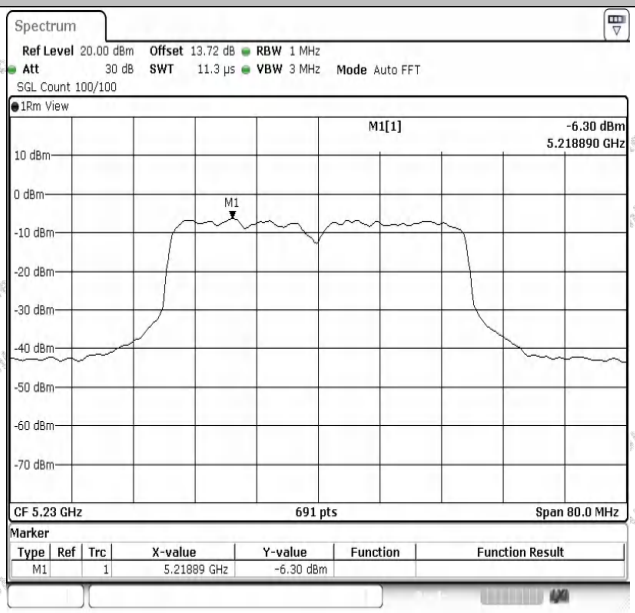

11AX20SISO-Ant1-5785-PASS



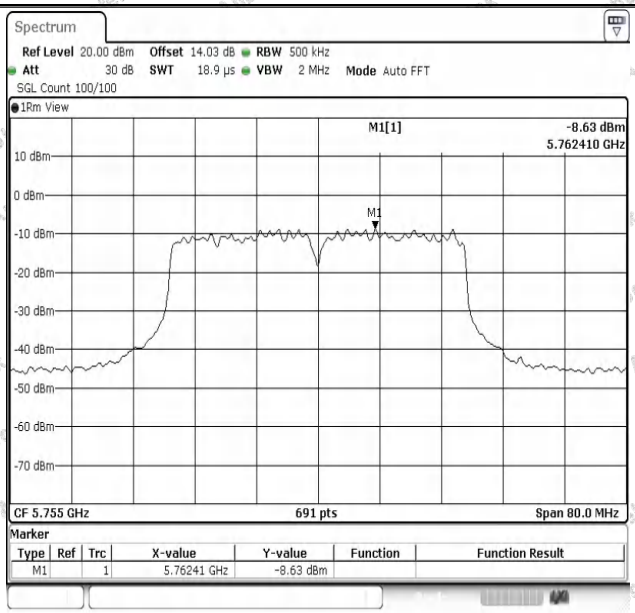

11AX20SISO-Ant1-5825-PASS



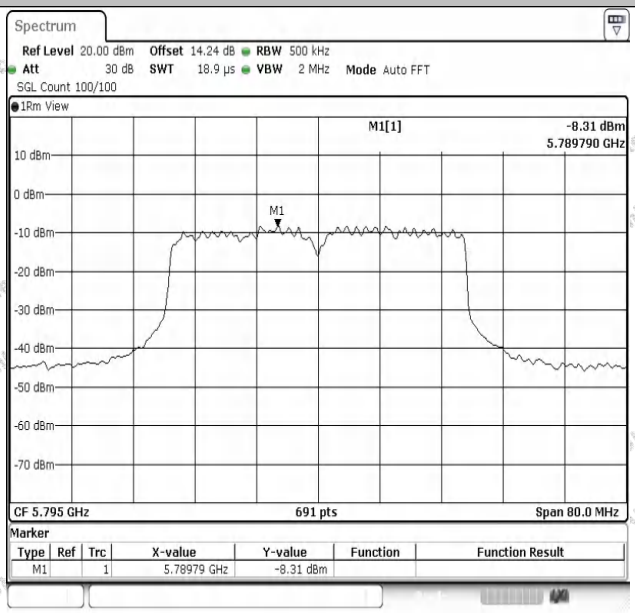

11AX40SISO-Ant1-5190-PASS




11AX40SISO-Ant1-5230-PASS




11AX40SISO-Ant1-5755-PASS




11AX40SISO-Ant1-5795-PASS

# Appendix E: Band edge measurements

## Test Result B1

| TestMode | Antenna | ChName | Frequency[MHz] | Result[dBm] | Limit[dBm] | Verdict |
|---|---|---|---|---|---|---|
| 11A | Ant1 | Low | 5180 | -39.27 | ≤-27 | PASS |
| 11A | Ant1 | High | 5240 | -44.04 | ≤-27 | PASS |
| 11N20SISO | Ant1 | Low | 5180 | -39.21 | ≤-27 | PASS |
| 11N20SISO | Ant1 | High | 5240 | -45.32 | ≤-27 | PASS |
| 11N40SISO | Ant1 | Low | 5190 | -34.21 | ≤-27 | PASS |
| 11N40SISO | Ant1 | High | 5230 | -45.07 | ≤-27 | PASS |
| 11AC20SISO | Ant1 | Low | 5180 | -38.97 | ≤-27 | PASS |
| 11AC20SISO | Ant1 | High | 5240 | -45.88 | ≤-27 | PASS |
| 11AC40SISO | Ant1 | Low | 5190 | -30.89 | ≤-27 | PASS |
| 11AC40SISO | Ant1 | High | 5230 | -44.05 | ≤-27 | PASS |
| 11AX20SISO | Ant1 | Low | 5180 | -39.85 | ≤-27 | PASS |
| 11AX20SISO | Ant1 | High | 5240 | -47.1 | ≤-27 | PASS |
| 11AX40SISO | Ant1 | Low | 5190 | -38.32 | ≤-27 | PASS |
| 11AX40SISO | Ant1 | High | 5230 | -46.49 | ≤-27 | PASS |

Note: The margin is at least greater than the antenna gain plus the cable loss.

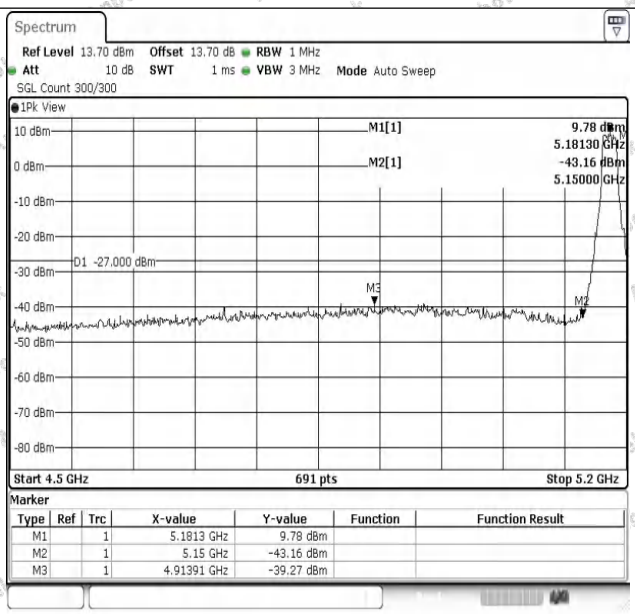
## Test Result B4

| TestMode | Antenna | ChName | Frequency[MHz] | FreqRange [MHz] | Result [dBm] | Limit [dBm] | Verdict |
|---|---|---|---|---|---|---|---|
| 11A | Ant1 | Low | 5745 | 5720~5725 | -29.04 | ≤22.44 | PASS |
| 11A | Ant1 | Low | 5745 | 5700~5720 | -37.63 | ≤15.60 | PASS |
| 11A | Ant1 | Low | 5745 | 5650~5700 | -46.83 | ≤-26.88 | PASS |
| 11A | Ant1 | Low | 5745 | 5760~5650 | -44 | ≤-27 | PASS |
| 11A | Ant1 | High | 5825 | 5850~5855 | -40.78 | ≤16.99 | PASS |
| 11A | Ant1 | High | 5825 | 5855~5875 | -46.39 | ≤11.55 | PASS |
| 11A | Ant1 | High | 5825 | 5875~5925 | -44.03 | ≤-26.58 | PASS |
| 11A | Ant1 | High | 5825 | 5925~5935 | -42.38 | ≤-27 | PASS |
| 11N20SISO | Ant1 | Low | 5745 | 5720~5725 | -35.97 | ≤15.98 | PASS |
| 11N20SISO | Ant1 | Low | 5745 | 5700~5720 | -35.74 | ≤15.51 | PASS |
| 11N20SISO | Ant1 | Low | 5745 | 5650~5700 | -48.47 | ≤-26.88 | PASS |
| 11N20SISO | Ant1 | Low | 5745 | 5760~5650 | -44.2 | ≤-27 | PASS |
| 11N20SISO | Ant1 | High | 5825 | 5850~5855 | -38.2 | ≤15.65 | PASS |
| 11N20SISO | Ant1 | High | 5825 | 5855~5875 | -38.32 | ≤15.44 | PASS |
| 11N20SISO | Ant1 | High | 5825 | 5875~5925 | -45.11 | ≤-26.87 | PASS |
| 11N20SISO | Ant1 | High | 5825 | 5925~5935 | -43.34 | ≤-27 | PASS |
| 11N40SISO | Ant1 | Low | 5755 | 5720~5725 | -28.83 | ≤15.90 | PASS |
| 11N40SISO | Ant1 | Low | 5755 | 5700~5720 | -33.02 | ≤11.36 | PASS |

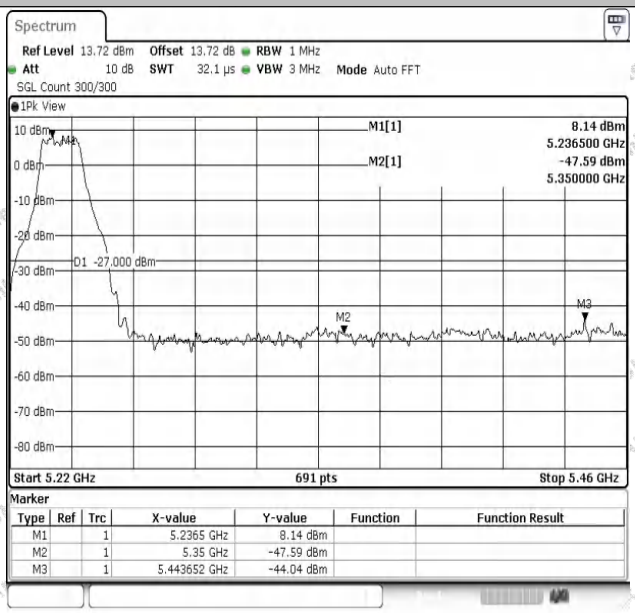
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 11N40SISO | Ant1 | Low | 5755 | 5650~5700 | -46.67 | ≤-25.34 | PASS |
| 11N40SISO | Ant1 | Low | 5755 | 5780~5650 | -46.88 | ≤-27 | PASS |
| 11N40SISO | Ant1 | High | 5795 | 5850~5855 | -38.68 | ≤18.03 | PASS |
| 11N40SISO | Ant1 | High | 5795 | 5855~5875 | -40.28 | ≤12.08 | PASS |
| 11N40SISO | Ant1 | High | 5795 | 5875~5925 | -45.19 | ≤-26.08 | PASS |
| 11N40SISO | Ant1 | High | 5795 | 5925~5935 | -45.41 | ≤-27 | PASS |
| 11AC20SISO | Ant1 | Low | 5745 | 5720~5725 | -33.41 | ≤15.98 | PASS |
| 11AC20SISO | Ant1 | Low | 5745 | 5700~5720 | -33.59 | ≤15.60 | PASS |
| 11AC20SISO | Ant1 | Low | 5745 | 5650~5700 | -47.84 | ≤-26.38 | PASS |
| 11AC20SISO | Ant1 | Low | 5745 | 5760~5650 | -44.67 | ≤-27 | PASS |
| 11AC20SISO | Ant1 | High | 5825 | 5850~5855 | -35.09 | ≤19.22 | PASS |
| 11AC20SISO | Ant1 | High | 5825 | 5855~5875 | -39.97 | ≤15.55 | PASS |
| 11AC20SISO | Ant1 | High | 5825 | 5875~5925 | -45.19 | ≤-26.87 | PASS |
| 11AC20SISO | Ant1 | High | 5825 | 5925~5935 | -43.94 | ≤-27 | PASS |
| 11AC40SISO | Ant1 | Low | 5755 | 5720~5725 | -25.95 | ≤15.90 | PASS |
| 11AC40SISO | Ant1 | Low | 5755 | 5700~5720 | -28.87 | ≤11.91 | PASS |
| 11AC40SISO | Ant1 | Low | 5755 | 5650~5700 | -48.23 | ≤-26.65 | PASS |
| 11AC40SISO | Ant1 | Low | 5755 | 5780~5650 | -46.26 | ≤-27 | PASS |
| 11AC40SISO | Ant1 | High | 5795 | 5850~5855 | -35.67 | ≤19.12 | PASS |
| 11AC40SISO | Ant1 | High | 5795 | 5855~5875 | -37.29 | ≤14.83 | PASS |
| 11AC40SISO | Ant1 | High | 5795 | 5875~5925 | -46.3 | ≤-25.91 | PASS |
| 11AC40SISO | Ant1 | High | 5795 | 5925~5935 | -45.96 | ≤-27 | PASS |
| 11AX20SISO | Ant1 | Low | 5745 | 5720~5725 | -43.31 | ≤16.36 | PASS |
| 11AX20SISO | Ant1 | Low | 5745 | 5700~5720 | -47.57 | ≤12.10 | PASS |
| 11AX20SISO | Ant1 | Low | 5745 | 5650~5700 | -47.65 | ≤-26.88 | PASS |
| 11AX20SISO | Ant1 | Low | 5745 | 5760~5650 | -45.1 | ≤-27 | PASS |
| 11AX20SISO | Ant1 | High | 5825 | 5850~5855 | -45.77 | ≤15.65 | PASS |
| 11AX20SISO | Ant1 | High | 5825 | 5855~5875 | -48.23 | ≤10.89 | PASS |
| 11AX20SISO | Ant1 | High | 5825 | 5875~5925 | -46.45 | ≤-26.87 | PASS |
| 11AX20SISO | Ant1 | High | 5825 | 5925~5935 | -45.76 | ≤-27 | PASS |
| 11AX40SISO | Ant1 | Low | 5755 | 5720~5725 | -40.23 | ≤16.34 | PASS |
| 11AX40SISO | Ant1 | Low | 5755 | 5700~5720 | -39.62 | ≤14.98 | PASS |
| 11AX40SISO | Ant1 | Low | 5755 | 5650~5700 | -48.21 | ≤-26.21 | PASS |
| 11AX40SISO | Ant1 | Low | 5755 | 5780~5650 | -47.83 | ≤-27 | PASS |
| 11AX40SISO | Ant1 | High | 5795 | 5850~5855 | -42.51 | ≤15.85 | PASS |
| 11AX40SISO | Ant1 | High | 5795 | 5855~5875 | -45.64 | ≤11.35 | PASS |
| 11AX40SISO | Ant1 | High | 5795 | 5875~5925 | -46.91 | ≤-26.61 | PASS |
| 11AX40SISO | Ant1 | High | 5795 | 5925~5935 | -46.83 | ≤-27 | PASS |

Note: The margin is at least greater than the antenna gain plus the cable loss.

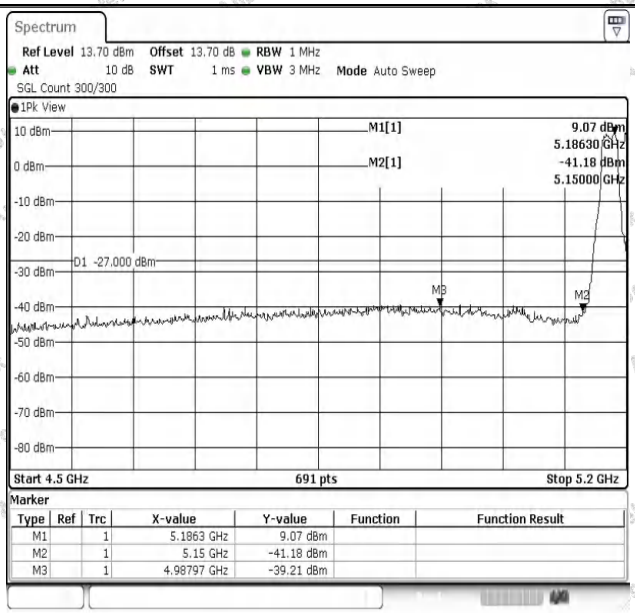
## Test Graphs B1



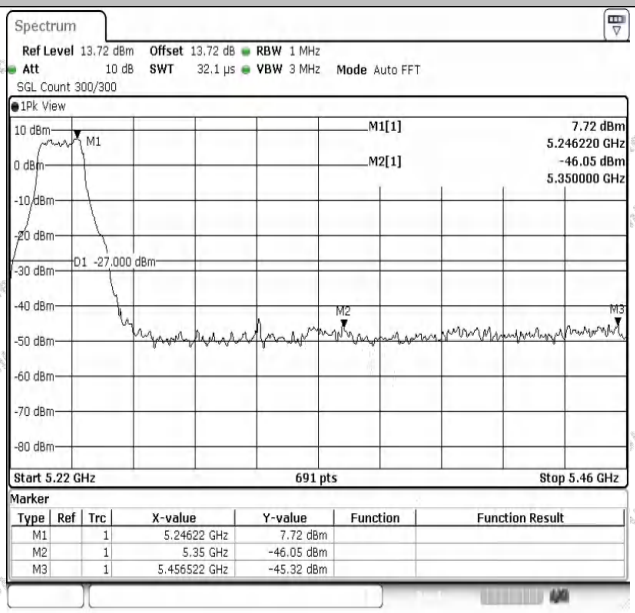

11A-Ant1-5180-PASS



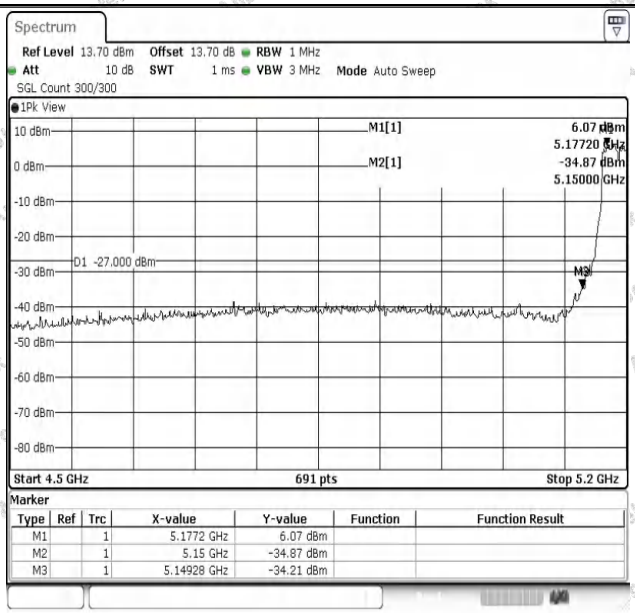

11A-Ant1-5240-PASS



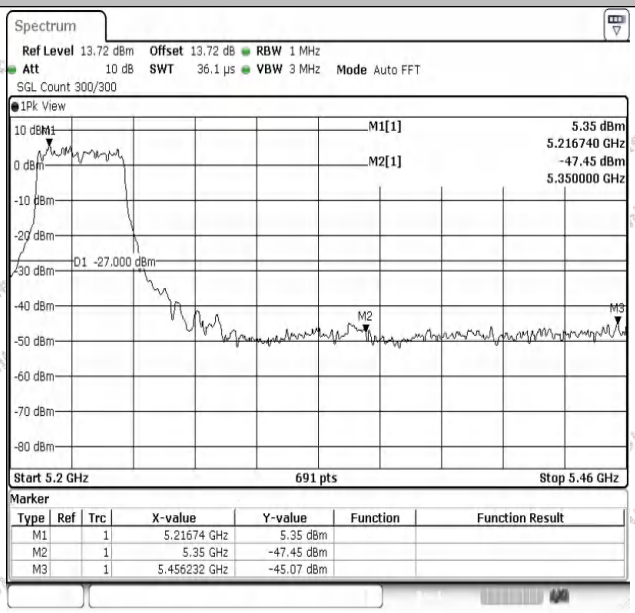

11N20SISO-Ant1-5180-PASS



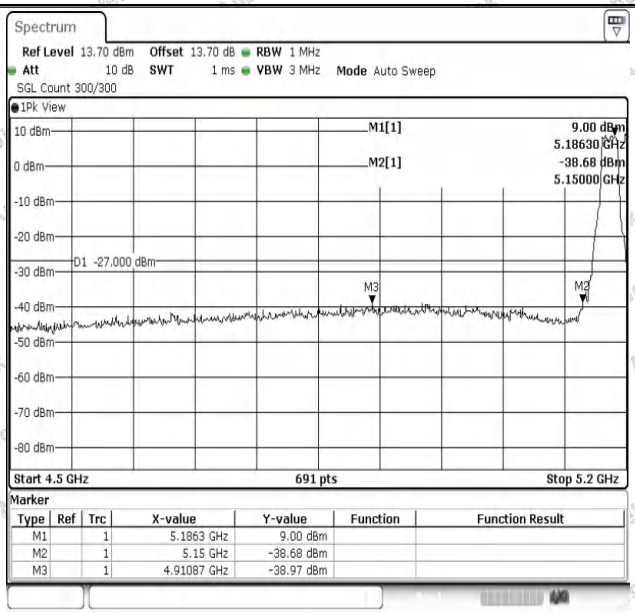

11N20SISO-Ant1-5240-PASS



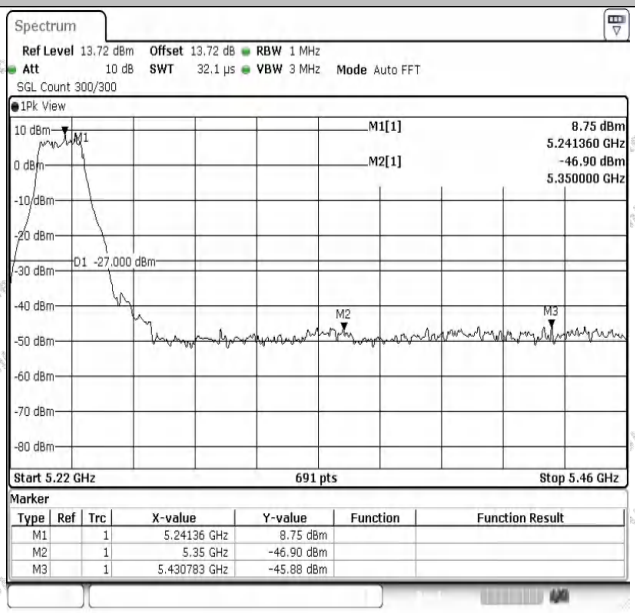

11N40SISO-Ant1-5190-PASS



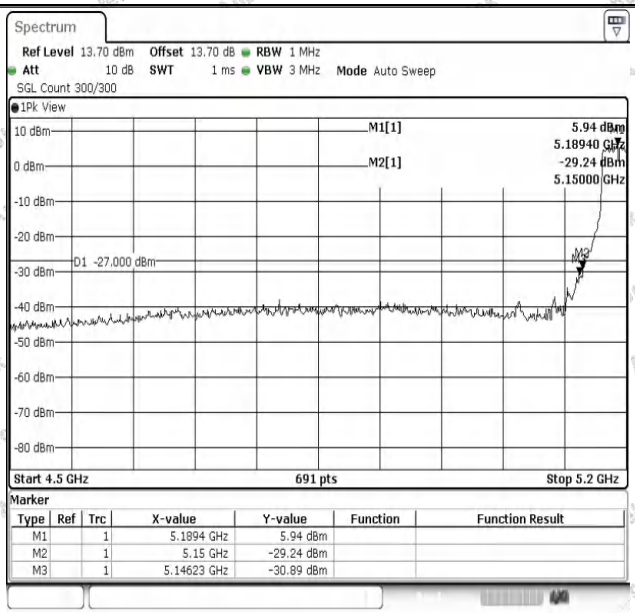

11N40SISO-Ant1-5230-PASS



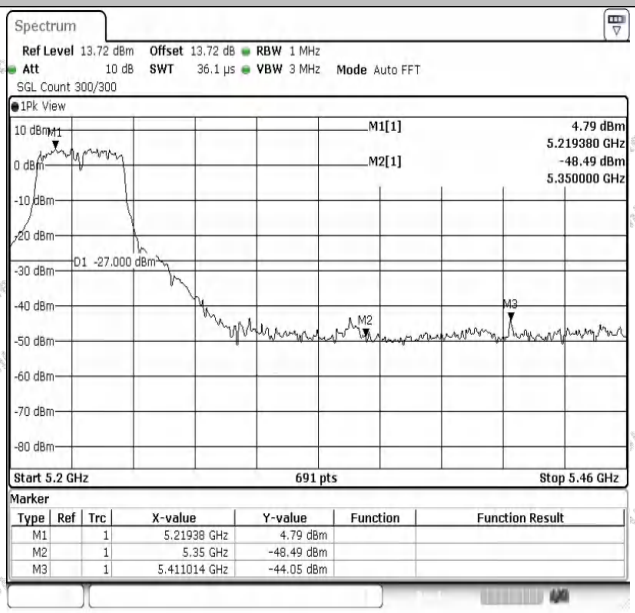

11AC20SISO-Ant1-5180-PASS



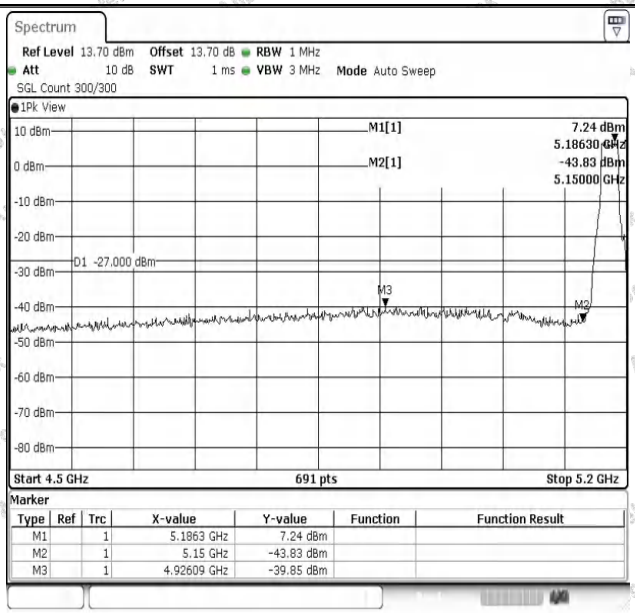

11AC20SISO-Ant1-5240-PASS



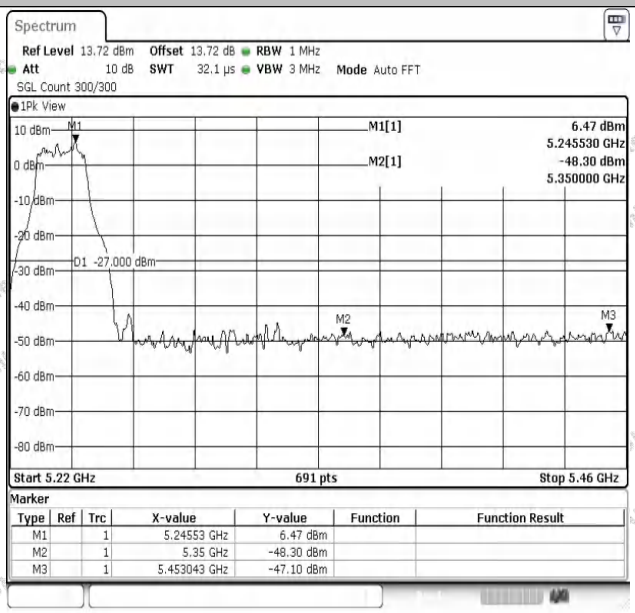

11AC40SISO-Ant1-5190-PASS



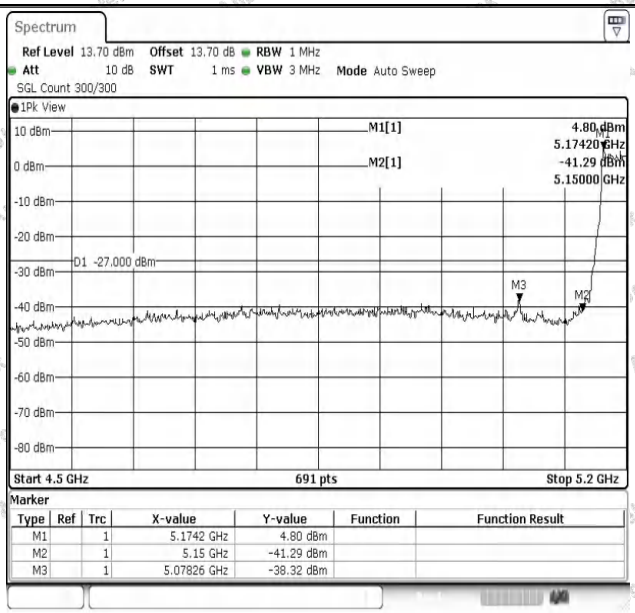

11AC40SISO-Ant1-5230-PASS



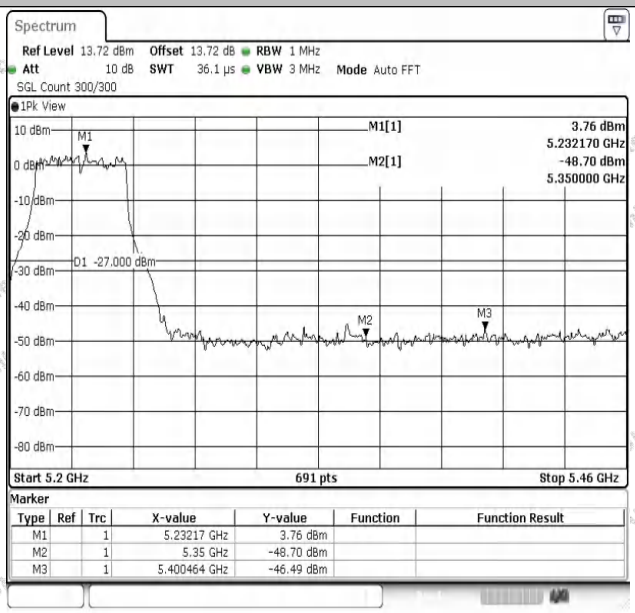

11AX20SISO-Ant1-5180-PASS




11AX20SISO-Ant1-5240-PASS

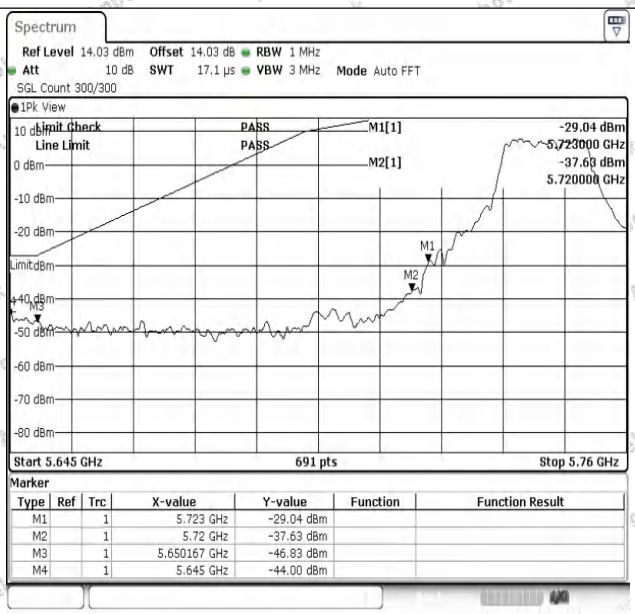



11AX40SISO-Ant1-5190-PASS

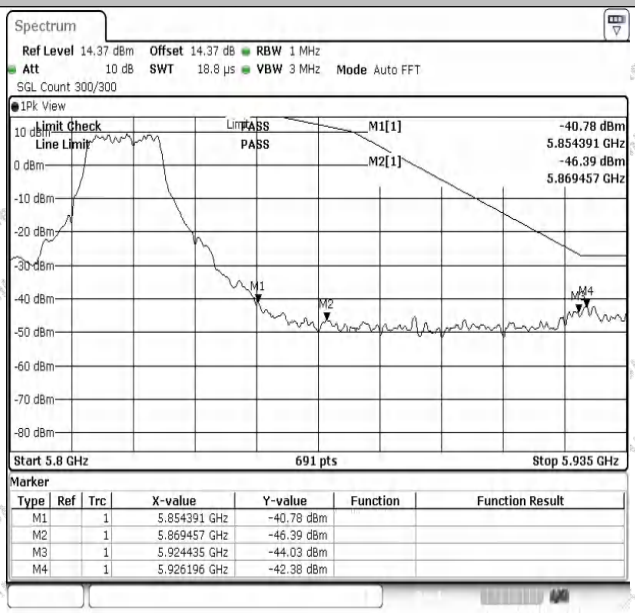



11AX40SISO-Ant1-5230-PASS

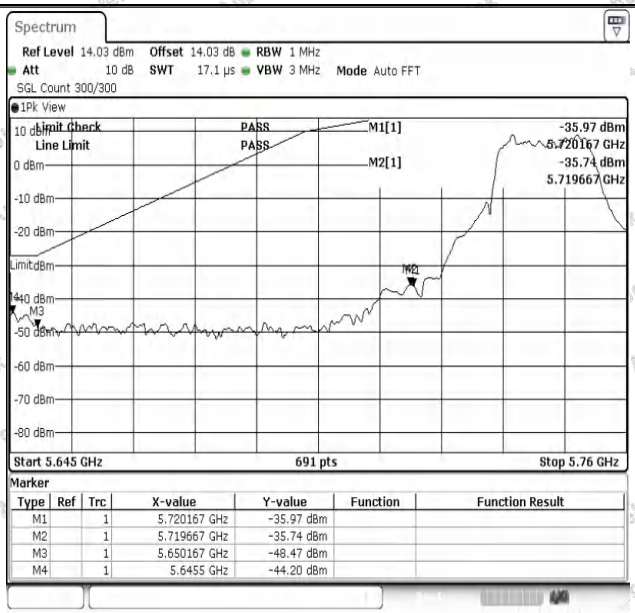
## Test Graphs B4



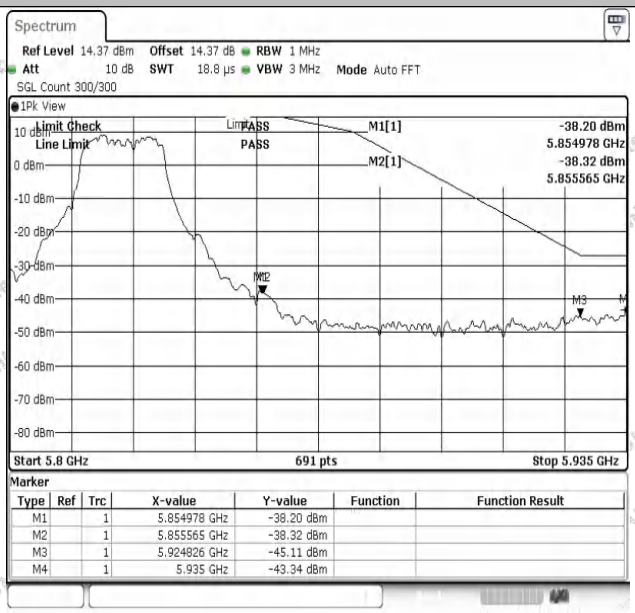

11A-Ant1-5745-PASS



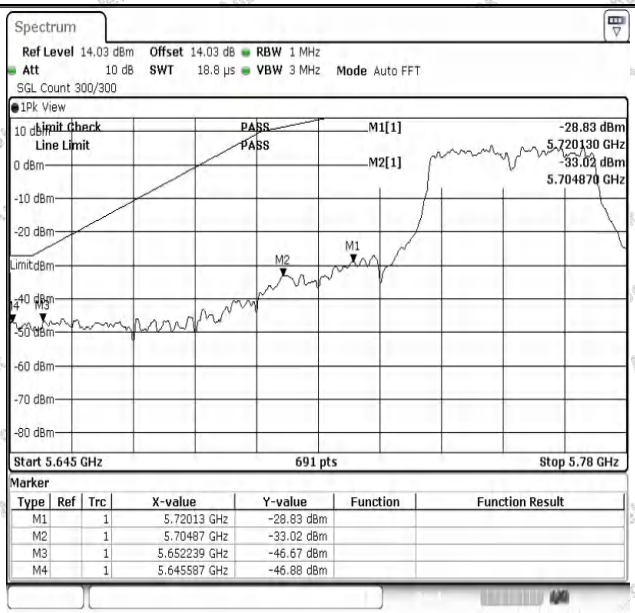

11A-Ant1-5825-PASS



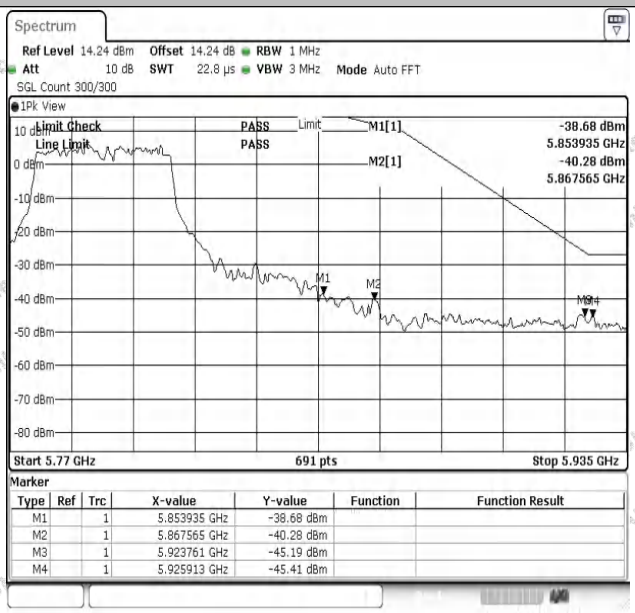

11N20SISO-Ant1-5745-PASS



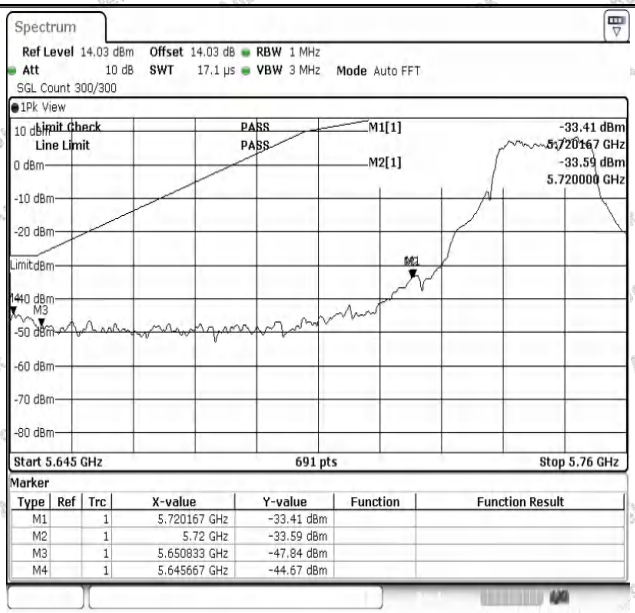

11N20SISO-Ant1-5825-PASS



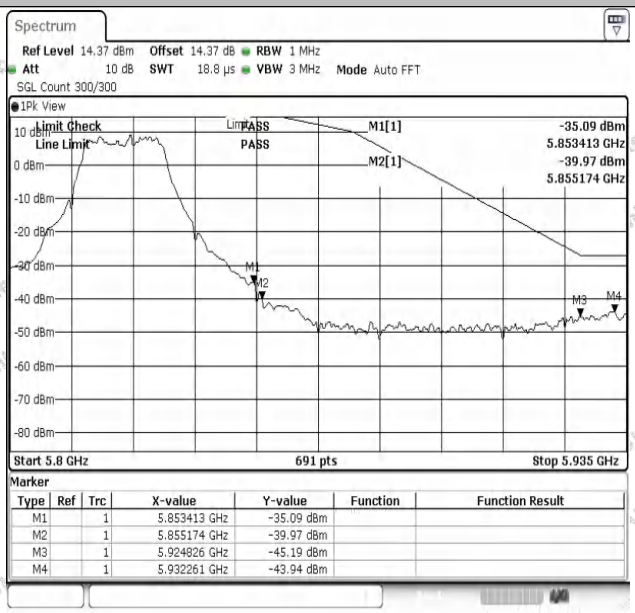

11N40SISO-Ant1-5755-PASS



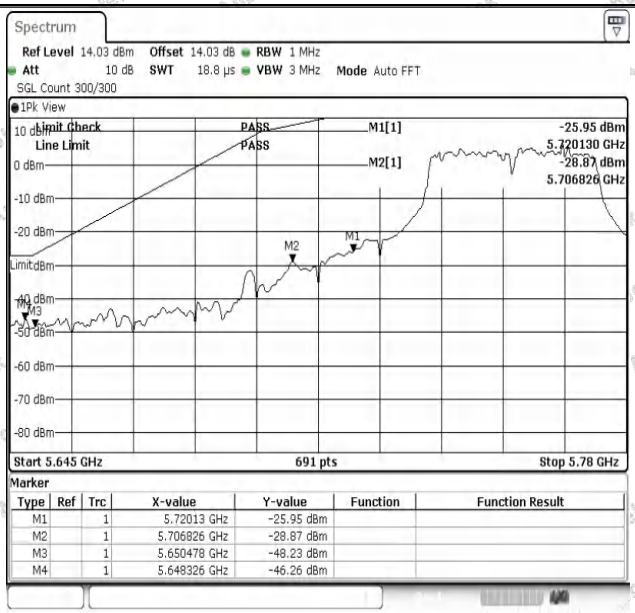

11N40SISO-Ant1-5795-PASS



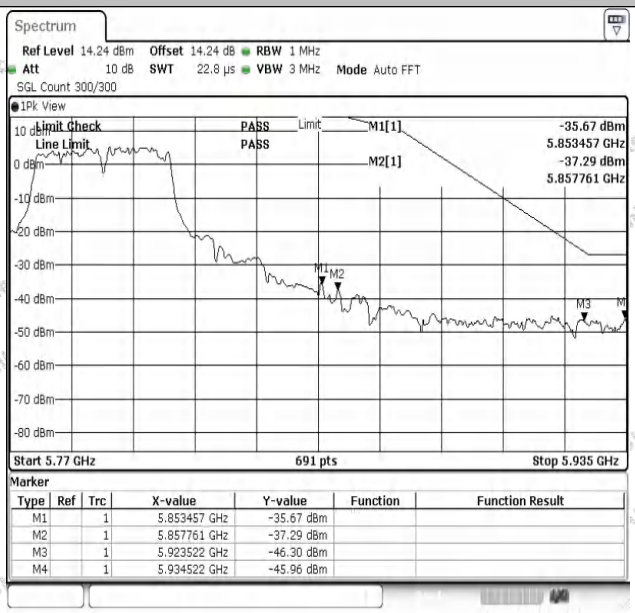

11AC20SISO-Ant1-5745-PASS



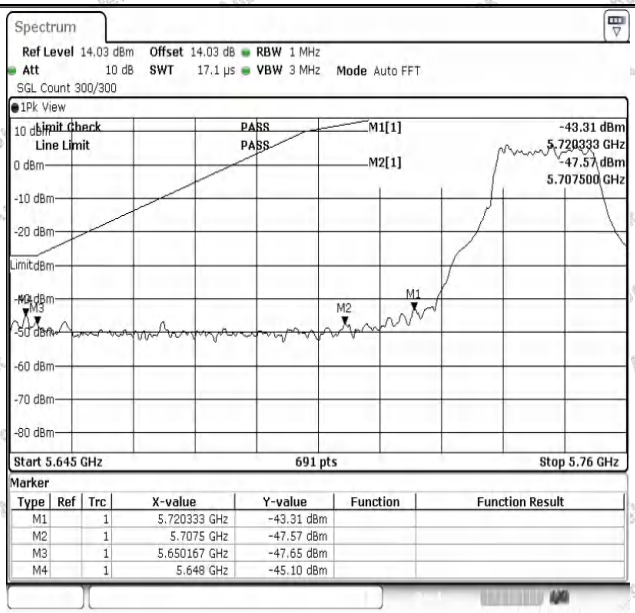

11AC20SISO-Ant1-5825-PASS



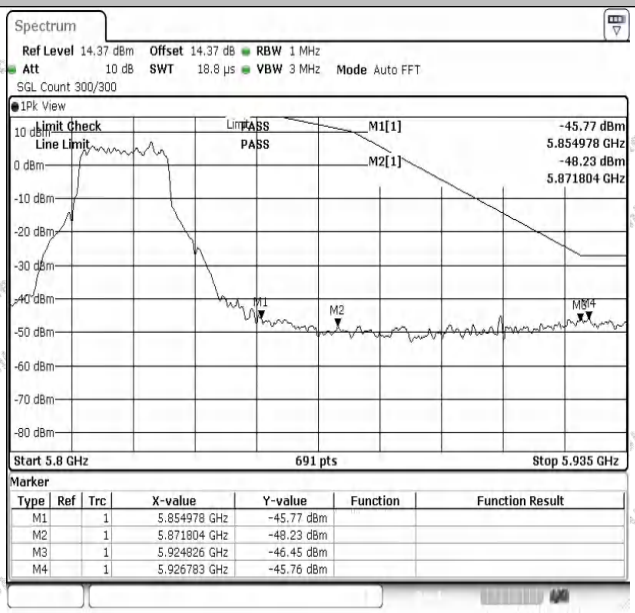

11AC40SISO-Ant1-5755-PASS



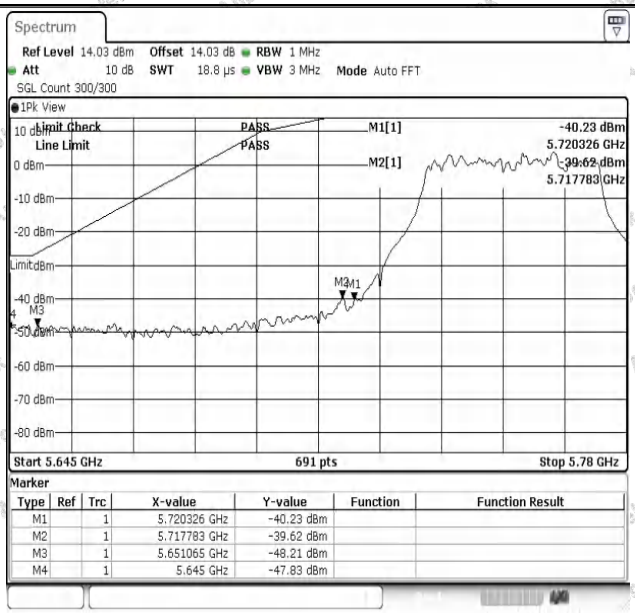

11AC40SISO-Ant1-5795-PASS



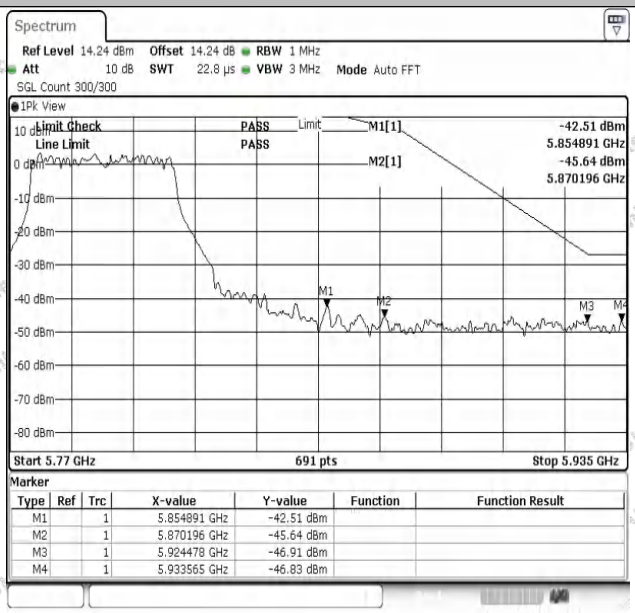

11AX20SISO-Ant1-5745-PASS




11AX20SISO-Ant1-5825-PASS




11AX40SISO-Ant1-5755-PASS




11AX40SISO-Ant1-5795-PASS

---END---