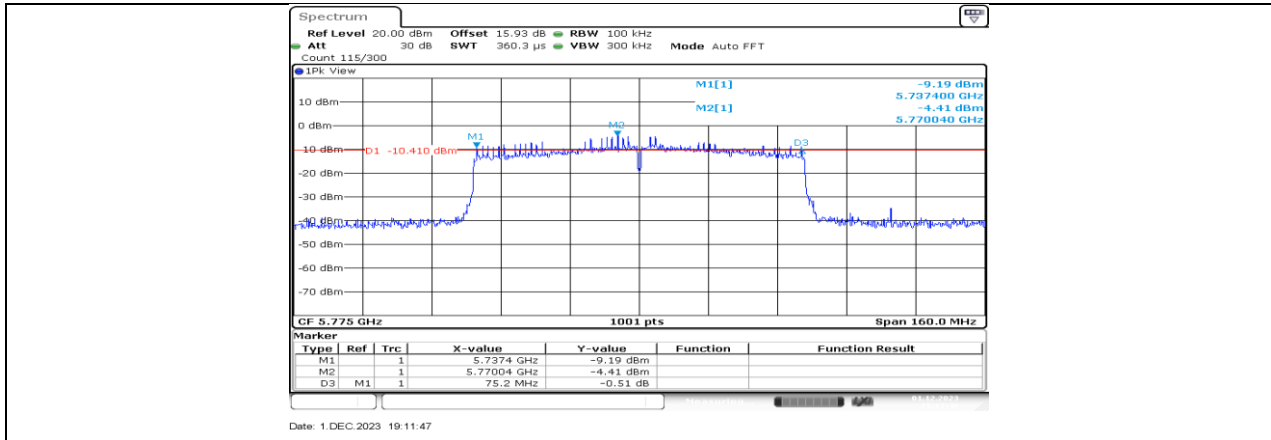
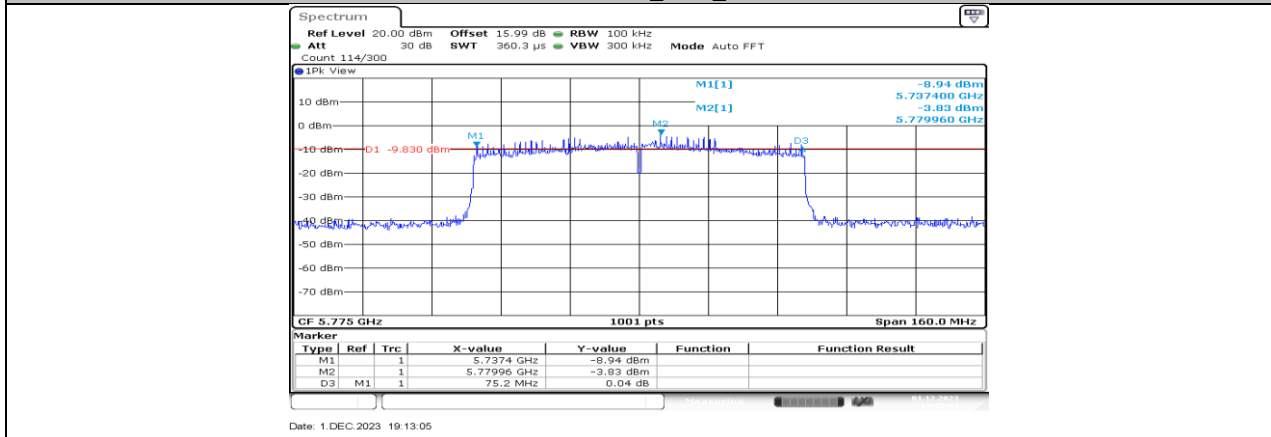


11AC80MIMO_Ant2_5690



11AC80MIMO_Ant1_5775



11AC80MIMO_Ant2_5775

11.4. APPENDIX D: MAXIMUM CONDUCTED OUTPUT POWER

11.4.1. Test Result

| Test Mode | Antenna | Frequency[MHz] | Power [dBm] | FCC Limit [dBm] | ISED Limit [dBm] | EIRP [dBm] | Limit [dBm] | Verdict |
|-----------|---------|----------------|-------------|-----------------|------------------|------------|-------------|---------|
| 11A | Ant1 | 5180 | 14.00 | ≤23.98 | --- | 18.01 | ≤22.35 | PASS |
| | Ant2 | 5180 | 14.69 | ≤23.98 | --- | 17.82 | ≤22.32 | PASS |
| | Ant1 | 5200 | 13.83 | ≤23.98 | --- | 17.84 | ≤22.48 | PASS |
| | Ant2 | 5200 | 14.38 | ≤23.98 | --- | 17.51 | ≤22.36 | PASS |
| | Ant1 | 5240 | 14.12 | ≤23.98 | --- | 18.13 | ≤22.41 | PASS |
| | Ant2 | 5240 | 14.89 | ≤23.98 | --- | 18.02 | ≤22.34 | PASS |
| | Ant1 | 5260 | 14.44 | ≤23.98 | ≤23.38 | 18.45 | ≤29.38 | PASS |
| | Ant2 | 5260 | 14.74 | ≤23.98 | ≤23.33 | 17.87 | ≤29.33 | PASS |
| | Ant1 | 5280 | 14.60 | ≤23.98 | ≤23.37 | 18.61 | ≤29.37 | PASS |
| | Ant2 | 5280 | 14.78 | ≤23.98 | ≤23.33 | 17.91 | ≤29.33 | PASS |
| | Ant1 | 5320 | 14.38 | ≤23.98 | ≤23.35 | 18.39 | ≤29.35 | PASS |
| | Ant2 | 5320 | 14.29 | ≤23.98 | ≤23.34 | 17.42 | ≤29.34 | PASS |
| | Ant1 | 5500 | 14.42 | ≤23.98 | ≤23.35 | 18.43 | ≤29.35 | PASS |
| | Ant2 | 5500 | 14.76 | ≤23.98 | ≤23.34 | 17.89 | ≤29.34 | PASS |
| | Ant1 | 5580 | 14.70 | ≤23.98 | ≤23.36 | 18.71 | ≤29.36 | PASS |
| | Ant2 | 5580 | 14.43 | ≤23.98 | ≤23.35 | 17.56 | ≤29.35 | PASS |
| | Ant1 | 5700 | 14.30 | ≤23.98 | ≤23.37 | 18.31 | ≤29.37 | PASS |
| | Ant2 | 5700 | 14.51 | ≤23.98 | ≤23.35 | 17.64 | ≤29.35 | PASS |
| | Ant1 | 5720_UNII-2C | 11.70 | ≤22.76 | ≤22.35 | 15.71 | ≤28.35 | PASS |
| | Ant2 | 5720_UNII-2C | 11.78 | ≤22.82 | ≤22.33 | 14.91 | ≤28.33 | PASS |
| | Ant1 | 5720_UNII-3 | 3.87 | ≤30.00 | ≤30.00 | 7.88 | --- | PASS |
| | Ant2 | 5720_UNII-3 | 3.98 | ≤30.00 | ≤30.00 | 7.11 | --- | PASS |
| | Ant1 | 5745 | 14.69 | ≤30.00 | ≤30.00 | 18.70 | --- | PASS |
| | Ant2 | 5745 | 14.59 | ≤30.00 | ≤30.00 | 17.72 | --- | PASS |
| | Ant1 | 5785 | 14.56 | ≤30.00 | ≤30.00 | 18.57 | --- | PASS |
| | Ant2 | 5785 | 14.71 | ≤30.00 | ≤30.00 | 17.84 | --- | PASS |
| | Ant1 | 5825 | 14.46 | ≤30.00 | ≤30.00 | 18.47 | --- | PASS |
| | Ant2 | 5825 | 14.81 | ≤30.00 | ≤30.00 | 17.94 | --- | PASS |
| 11N20MIMO | Ant1 | 5180 | 9.67 | ≤23.98 | --- | 13.68 | ≤22.55 | PASS |
| | Ant2 | 5180 | 11.48 | ≤23.98 | --- | 15.49 | ≤22.50 | PASS |
| | total | 5180 | 13.68 | ≤23.98 | --- | 17.69 | ≤22.50 | PASS |
| | Ant1 | 5200 | 9.51 | ≤23.98 | --- | 13.52 | ≤22.58 | PASS |
| | Ant2 | 5200 | 11.96 | ≤23.98 | --- | 15.97 | ≤22.50 | PASS |
| | total | 5200 | 13.92 | ≤23.98 | --- | 17.93 | ≤22.50 | PASS |
| | Ant1 | 5240 | 10.20 | ≤23.98 | --- | 14.21 | ≤22.58 | PASS |
| | Ant2 | 5240 | 11.47 | ≤23.98 | --- | 15.48 | ≤22.49 | PASS |
| | total | 5240 | 13.89 | ≤23.98 | --- | 17.90 | ≤22.49 | PASS |
| | Ant1 | 5260 | 14.00 | ≤23.98 | ≤23.56 | 18.01 | ≤29.56 | PASS |
| | Ant2 | 5260 | 14.64 | ≤23.98 | ≤23.51 | 18.65 | ≤29.51 | PASS |
| | total | 5260 | 17.34 | ≤23.98 | ≤23.51 | 21.35 | ≤29.51 | PASS |
| | Ant1 | 5280 | 14.02 | ≤23.98 | ≤23.59 | 18.03 | ≤29.59 | PASS |
| | Ant2 | 5280 | 14.67 | ≤23.98 | ≤23.51 | 18.68 | ≤29.51 | PASS |
| | total | 5280 | 17.37 | ≤23.98 | ≤23.51 | 21.38 | ≤29.51 | PASS |
| | Ant1 | 5320 | 13.85 | ≤23.98 | ≤23.57 | 17.86 | ≤29.57 | PASS |
| | Ant2 | 5320 | 14.28 | ≤23.98 | ≤23.50 | 18.29 | ≤29.50 | PASS |
| | total | 5320 | 17.08 | ≤23.98 | ≤23.50 | 21.09 | ≤29.50 | PASS |
| | Ant1 | 5500 | 14.52 | ≤23.98 | ≤23.56 | 18.53 | ≤29.56 | PASS |
| | Ant2 | 5500 | 14.68 | ≤23.98 | ≤23.50 | 18.69 | ≤29.50 | PASS |
| | total | 5500 | 17.61 | ≤23.98 | ≤23.50 | 21.62 | ≤29.50 | PASS |
| | Ant1 | 5580 | 14.20 | ≤23.98 | ≤23.58 | 18.21 | ≤29.58 | PASS |
| | Ant2 | 5580 | 14.44 | ≤23.98 | ≤23.50 | 18.45 | ≤29.50 | PASS |
| | total | 5580 | 17.33 | ≤23.98 | ≤23.50 | 21.34 | ≤29.50 | PASS |
| | Ant1 | 5700 | 14.26 | ≤23.98 | ≤23.56 | 18.27 | ≤29.56 | PASS |
| | Ant2 | 5700 | 14.50 | ≤23.98 | ≤23.51 | 18.51 | ≤29.51 | PASS |
| | total | 5700 | 17.39 | ≤23.98 | ≤23.51 | 21.40 | ≤29.51 | PASS |
| | Ant1 | 5720_UNII-2C | 11.16 | ≤22.77 | ≤22.47 | 15.17 | ≤28.47 | PASS |

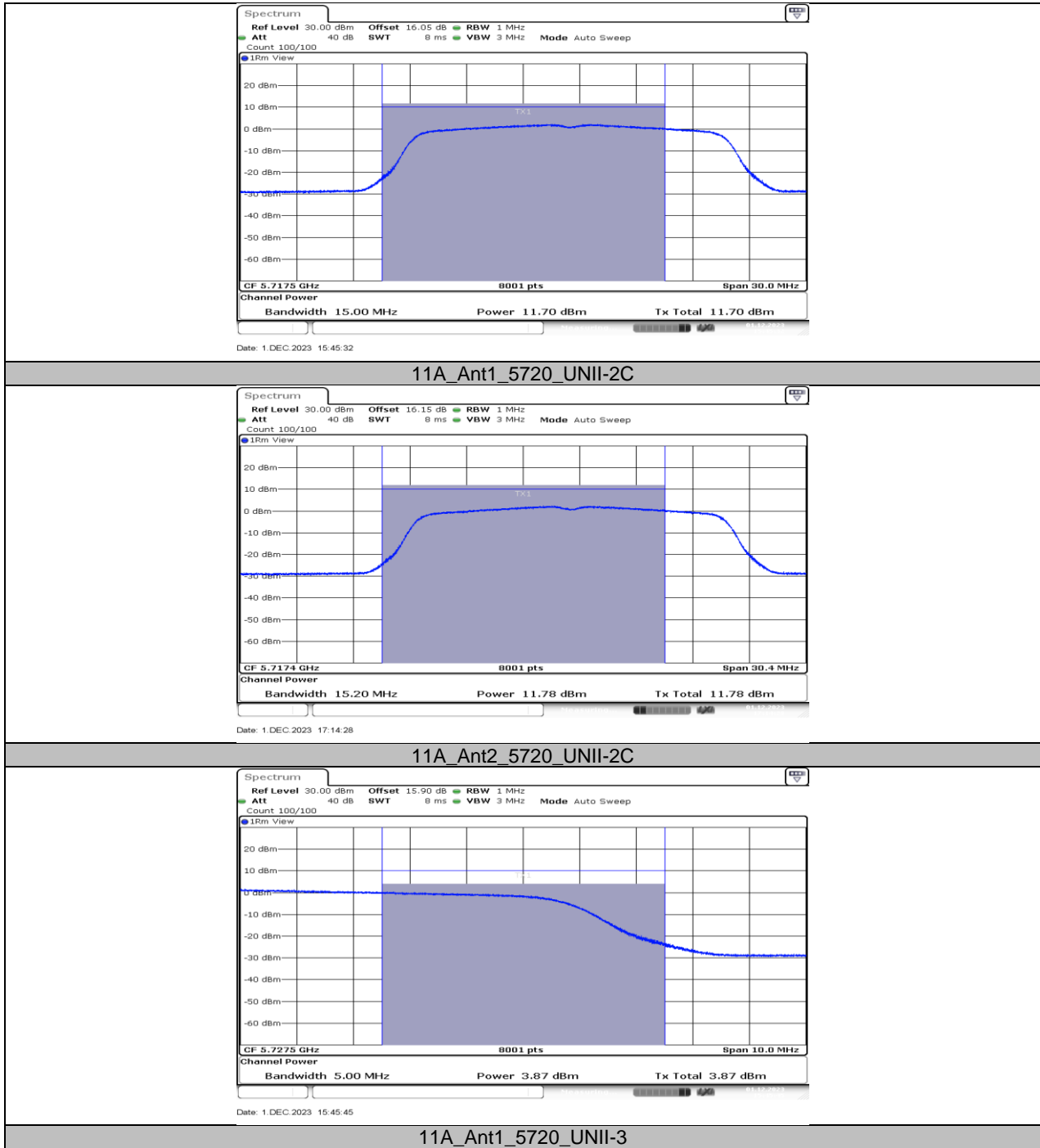
| | | | | | | | | |
|------------|-------|--------------|--------|--------|--------|-------|--------|------|
| | Ant2 | 5720_UNII-2C | 11.58 | ≤22.81 | ≤22.43 | 15.59 | ≤28.43 | PASS |
| | total | 5720_UNII-2C | 14.39 | ≤23.98 | ≤22.43 | 18.40 | ≤28.43 | PASS |
| | Ant1 | 5720_UNII-3 | 3.63 | ≤30.00 | ≤30.00 | 7.64 | --- | PASS |
| | Ant2 | 5720_UNII-3 | 4.31 | ≤30.00 | ≤30.00 | 8.32 | --- | PASS |
| | total | 5720_UNII-3 | 6.99 | ≤30.00 | ≤30.00 | 11.00 | --- | PASS |
| | Ant1 | 5745 | 13.68 | ≤30.00 | ≤30.00 | 17.69 | --- | PASS |
| | Ant2 | 5745 | 14.51 | ≤30.00 | ≤30.00 | 18.52 | --- | PASS |
| | total | 5745 | 17.13 | ≤30.00 | ≤30.00 | 21.14 | --- | PASS |
| | Ant1 | 5785 | 13.82 | ≤30.00 | ≤30.00 | 17.83 | --- | PASS |
| | Ant2 | 5785 | 14.22 | ≤30.00 | ≤30.00 | 18.23 | --- | PASS |
| | total | 5785 | 17.03 | ≤30.00 | ≤30.00 | 21.04 | --- | PASS |
| | Ant1 | 5825 | 13.94 | ≤30.00 | ≤30.00 | 17.95 | --- | PASS |
| | Ant2 | 5825 | 14.34 | ≤30.00 | ≤30.00 | 18.35 | --- | PASS |
| | total | 5825 | 17.15 | ≤30.00 | ≤30.00 | 21.16 | --- | PASS |
| 11N40MIMO | Ant1 | 5190 | 12.43 | ≤23.98 | --- | 16.44 | ≤23.00 | PASS |
| | Ant2 | 5190 | 14.57 | ≤23.98 | --- | 18.58 | ≤23.00 | PASS |
| | total | 5190 | 16.64 | ≤23.98 | --- | 20.65 | ≤23.00 | PASS |
| | Ant1 | 5230 | 12.90 | ≤23.98 | --- | 16.91 | ≤23.00 | PASS |
| | Ant2 | 5230 | 14.31 | ≤23.98 | --- | 18.32 | ≤23.00 | PASS |
| | total | 5230 | 16.67 | ≤23.98 | --- | 20.68 | ≤23.00 | PASS |
| | Ant1 | 5270 | 14.23 | ≤23.98 | ≤24.00 | 18.24 | ≤30.00 | PASS |
| | Ant2 | 5270 | 14.81 | ≤23.98 | ≤24.00 | 18.82 | ≤30.00 | PASS |
| | total | 5270 | 17.54 | ≤23.98 | ≤24.00 | 21.55 | ≤30.00 | PASS |
| | Ant1 | 5310 | 13.97 | ≤23.98 | ≤24.00 | 17.98 | ≤30.00 | PASS |
| | Ant2 | 5310 | 14.51 | ≤23.98 | ≤24.00 | 18.52 | ≤30.00 | PASS |
| | total | 5310 | 17.26 | ≤23.98 | ≤24.00 | 21.27 | ≤30.00 | PASS |
| | Ant1 | 5510 | 14.64 | ≤23.98 | ≤24.00 | 18.65 | ≤30.00 | PASS |
| | Ant2 | 5510 | 14.83 | ≤23.98 | ≤24.00 | 18.84 | ≤30.00 | PASS |
| | total | 5510 | 17.75 | ≤23.98 | ≤24.00 | 21.76 | ≤30.00 | PASS |
| | Ant1 | 5550 | 14.59 | ≤23.98 | ≤24.00 | 18.60 | ≤30.00 | PASS |
| | Ant2 | 5550 | 14.40 | ≤23.98 | ≤24.00 | 18.41 | ≤30.00 | PASS |
| | total | 5550 | 17.51 | ≤23.98 | ≤24.00 | 21.52 | ≤30.00 | PASS |
| | Ant1 | 5670 | 14.35 | ≤23.98 | ≤24.00 | 18.36 | ≤30.00 | PASS |
| | Ant2 | 5670 | 14.63 | ≤23.98 | ≤24.00 | 18.64 | ≤30.00 | PASS |
| | total | 5670 | 17.50 | ≤23.98 | ≤24.00 | 21.51 | ≤30.00 | PASS |
| | Ant1 | 5710_UNII-2C | 12.16 | ≤23.98 | ≤24.00 | 16.17 | ≤30.00 | PASS |
| | Ant2 | 5710_UNII-2C | 12.37 | ≤23.98 | ≤24.00 | 16.38 | ≤30.00 | PASS |
| | total | 5710_UNII-2C | 15.28 | ≤23.98 | ≤24.00 | 19.29 | ≤30.00 | PASS |
| | Ant1 | 5710_UNII-3 | -0.65 | ≤30.00 | ≤30.00 | 3.36 | --- | PASS |
| | Ant2 | 5710_UNII-3 | -0.05 | ≤30.00 | ≤30.00 | 3.96 | --- | PASS |
| | total | 5710_UNII-3 | 2.67 | ≤30.00 | ≤30.00 | 6.68 | --- | PASS |
| | Ant1 | 5755 | 13.49 | ≤30.00 | ≤30.00 | 17.50 | --- | PASS |
| | Ant2 | 5755 | 14.19 | ≤30.00 | ≤30.00 | 18.20 | --- | PASS |
| | total | 5755 | 16.86 | ≤30.00 | ≤30.00 | 20.87 | --- | PASS |
| Ant1 | 5795 | 14.13 | ≤30.00 | ≤30.00 | 18.14 | --- | PASS | |
| Ant2 | 5795 | 14.21 | ≤30.00 | ≤30.00 | 18.22 | --- | PASS | |
| total | 5795 | 17.18 | ≤30.00 | ≤30.00 | 21.19 | --- | PASS | |
| 11AC80MIMO | Ant1 | 5210 | 11.04 | ≤23.98 | --- | 15.05 | ≤23.00 | PASS |
| | Ant2 | 5210 | 12.93 | ≤23.98 | --- | 16.94 | ≤23.00 | PASS |
| | total | 5210 | 15.10 | ≤23.98 | --- | 19.11 | ≤23.00 | PASS |
| | Ant1 | 5290 | 12.80 | ≤23.98 | ≤24.00 | 16.81 | ≤30.00 | PASS |
| | Ant2 | 5290 | 13.37 | ≤23.98 | ≤24.00 | 17.38 | ≤30.00 | PASS |
| | total | 5290 | 16.10 | ≤23.98 | ≤24.00 | 20.11 | ≤30.00 | PASS |
| | Ant1 | 5530 | 13.63 | ≤23.98 | ≤24.00 | 17.64 | ≤30.00 | PASS |
| | Ant2 | 5530 | 13.74 | ≤23.98 | ≤24.00 | 17.75 | ≤30.00 | PASS |
| | total | 5530 | 16.70 | ≤23.98 | ≤24.00 | 20.71 | ≤30.00 | PASS |
| | Ant1 | 5610 | 13.29 | ≤23.98 | ≤24.00 | 17.30 | ≤30.00 | PASS |
| | Ant2 | 5610 | 14.04 | ≤23.98 | ≤24.00 | 18.05 | ≤30.00 | PASS |
| | total | 5610 | 16.69 | ≤23.98 | ≤24.00 | 20.70 | ≤30.00 | PASS |
| | Ant1 | 5690_UNII-2C | 12.36 | ≤23.98 | ≤24.00 | 16.37 | ≤30.00 | PASS |
| | Ant2 | 5690_UNII-2C | 12.38 | ≤23.98 | ≤24.00 | 16.39 | ≤30.00 | PASS |
| | total | 5690_UNII-2C | 15.38 | ≤23.98 | ≤24.00 | 19.39 | ≤30.00 | PASS |
| | Ant1 | 5690_UNII-3 | -3.95 | ≤30.00 | ≤30.00 | 0.06 | --- | PASS |
| | Ant2 | 5690_UNII-3 | -3.55 | ≤30.00 | ≤30.00 | 0.46 | --- | PASS |

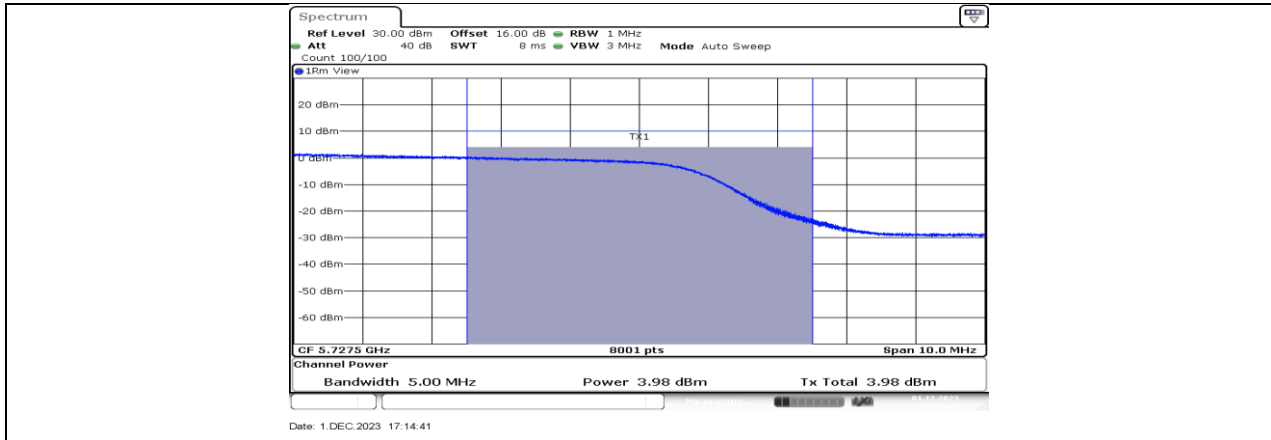
| | | | | | | | | |
|--|-------|-------------|-------|--------|--------|-------|-----|------|
| | total | 5690_UNII-3 | -0.74 | ≤30.00 | ≤30.00 | 3.27 | --- | PASS |
| | Ant1 | 5775 | 13.17 | ≤30.00 | ≤30.00 | 17.18 | --- | PASS |
| | Ant2 | 5775 | 13.58 | ≤30.00 | ≤30.00 | 17.59 | --- | PASS |
| | total | 5775 | 16.39 | ≤30.00 | ≤30.00 | 20.40 | --- | PASS |

Note: 1. Conducted Power=Meas. Level+ Correction Factor

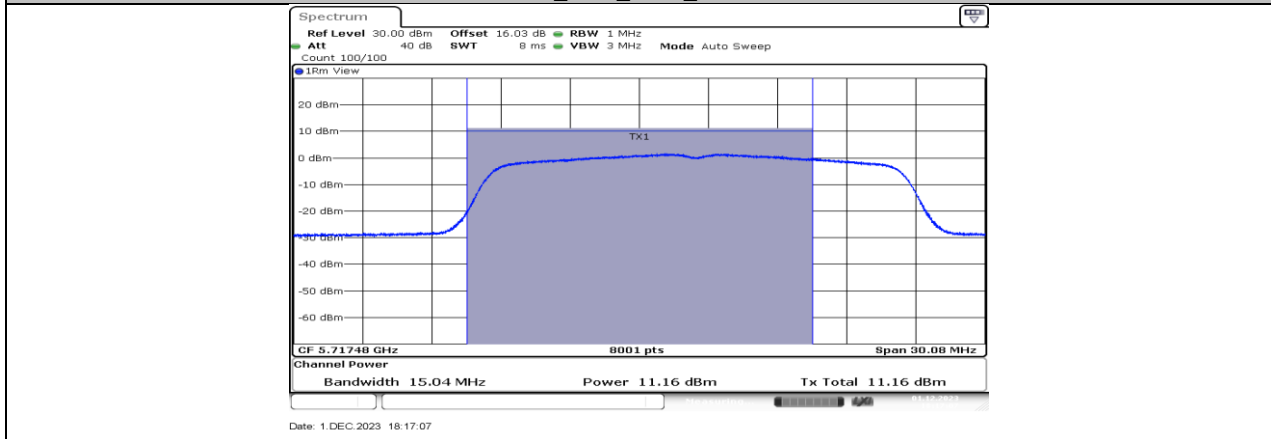
2. The Duty Cycle Factor (refer to section 7.1) had already compensated to the test data.

11.4.2. Test Graphs

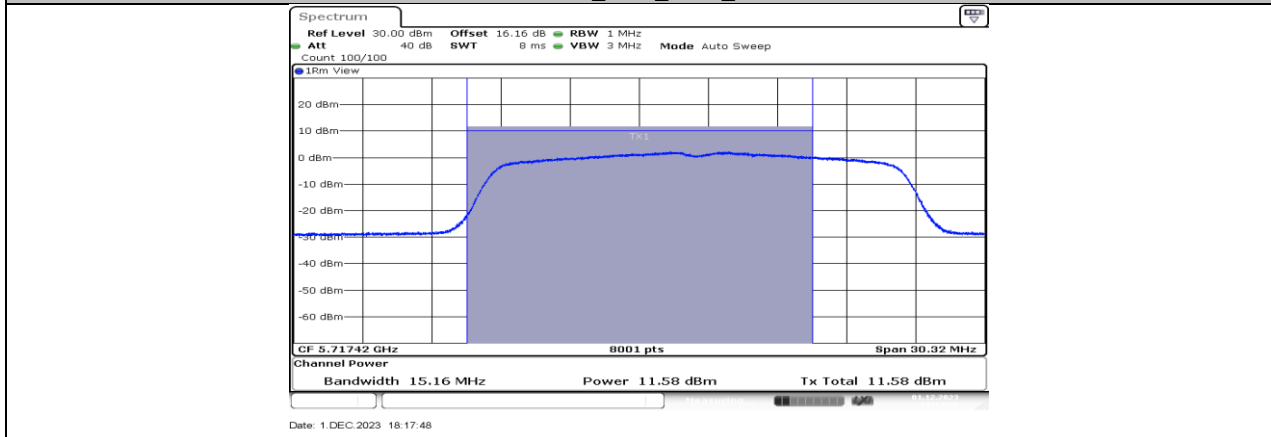




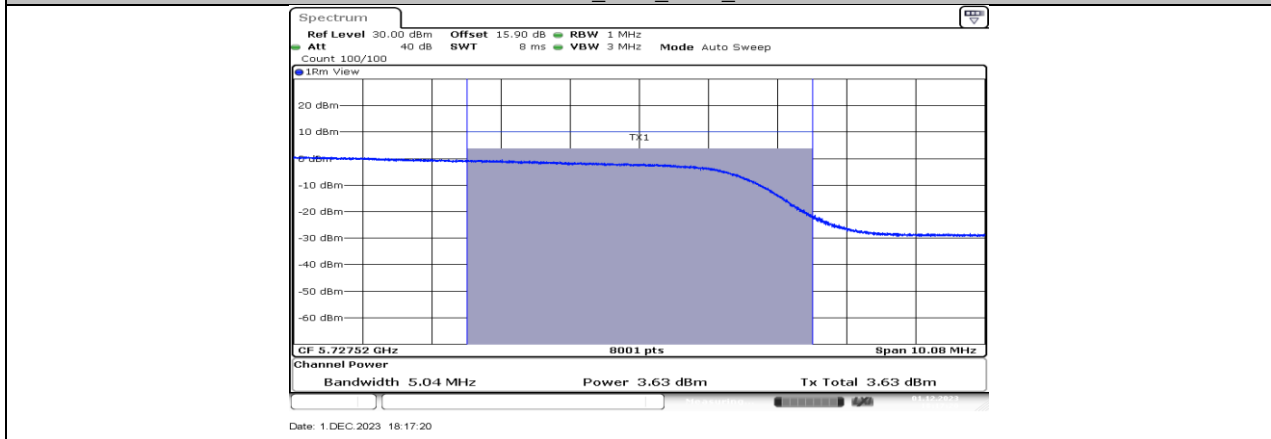
11A_Ant2_5720_UNII-3

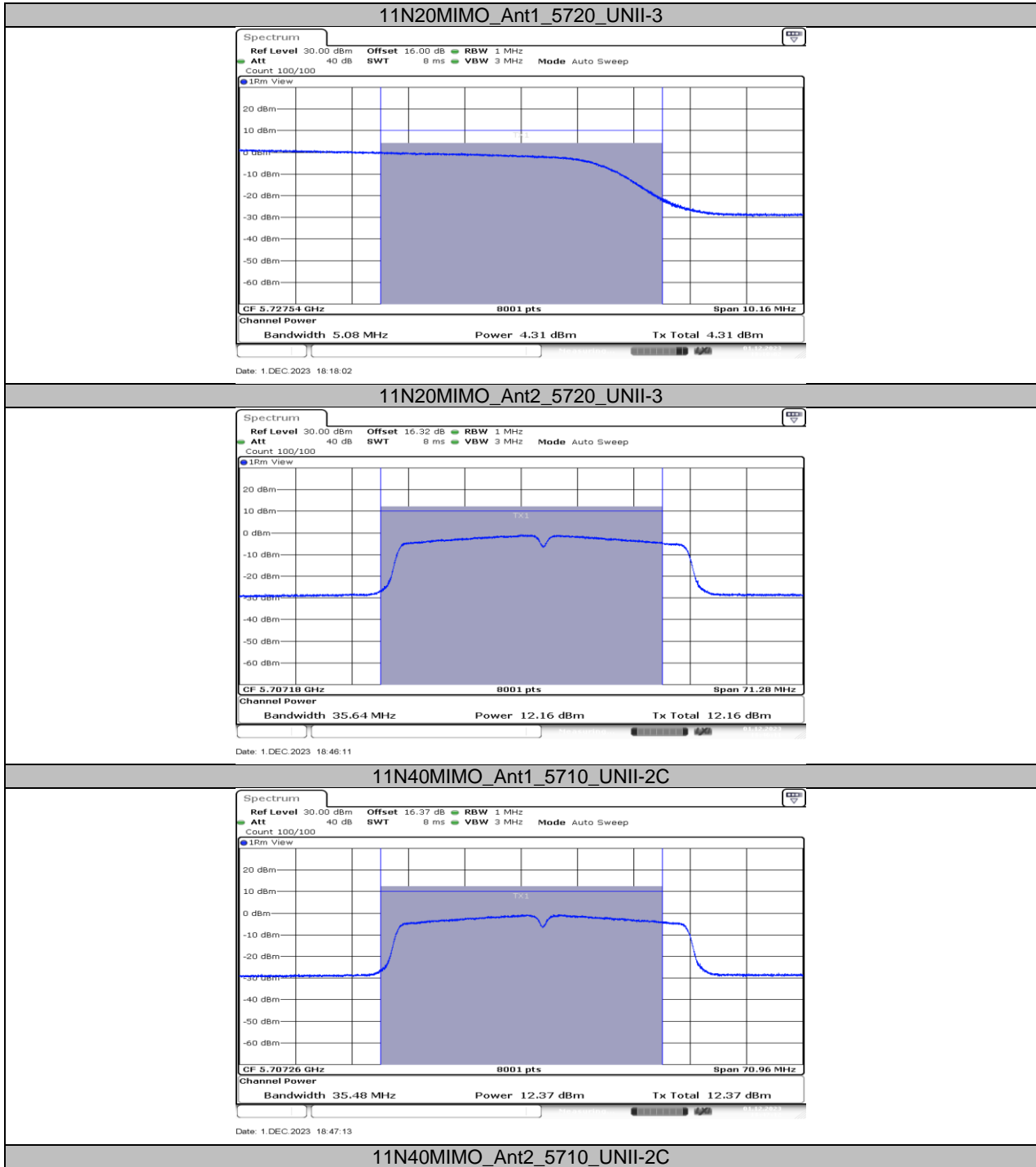


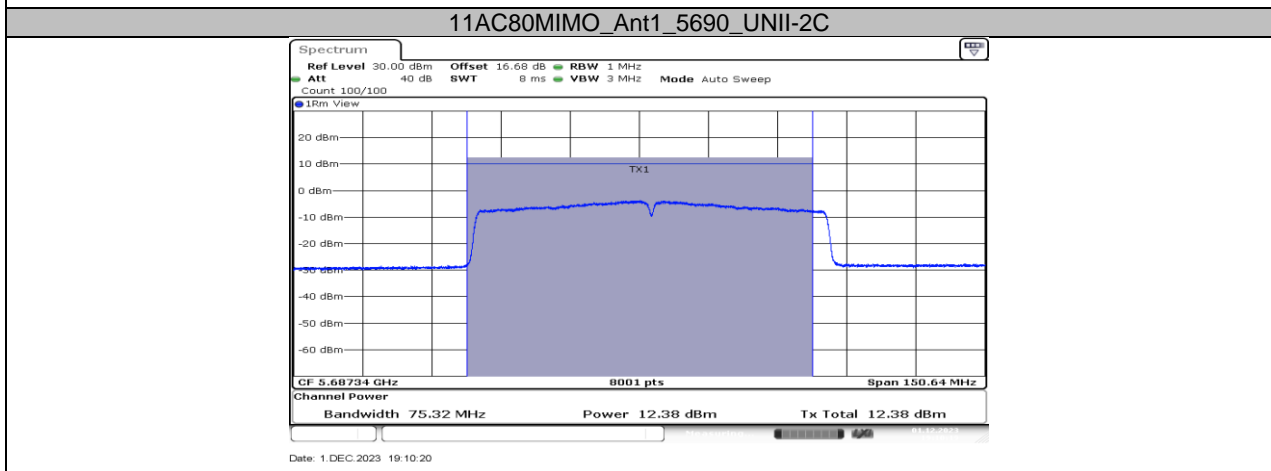
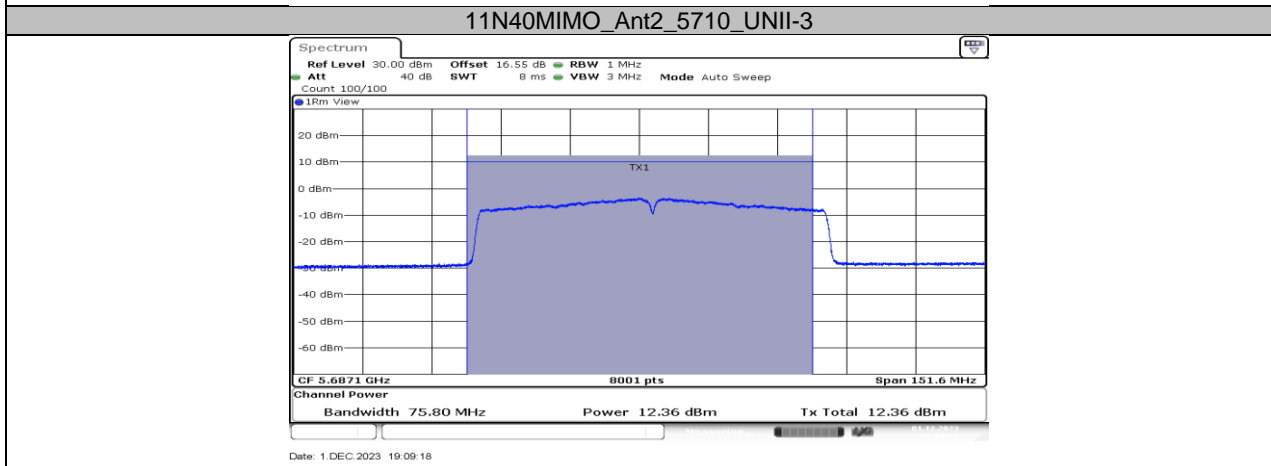
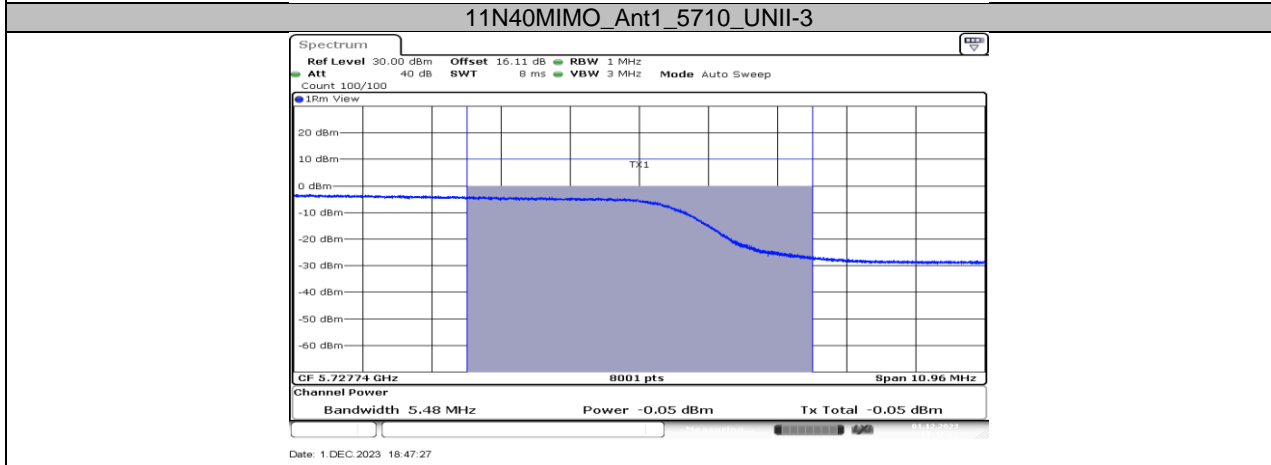
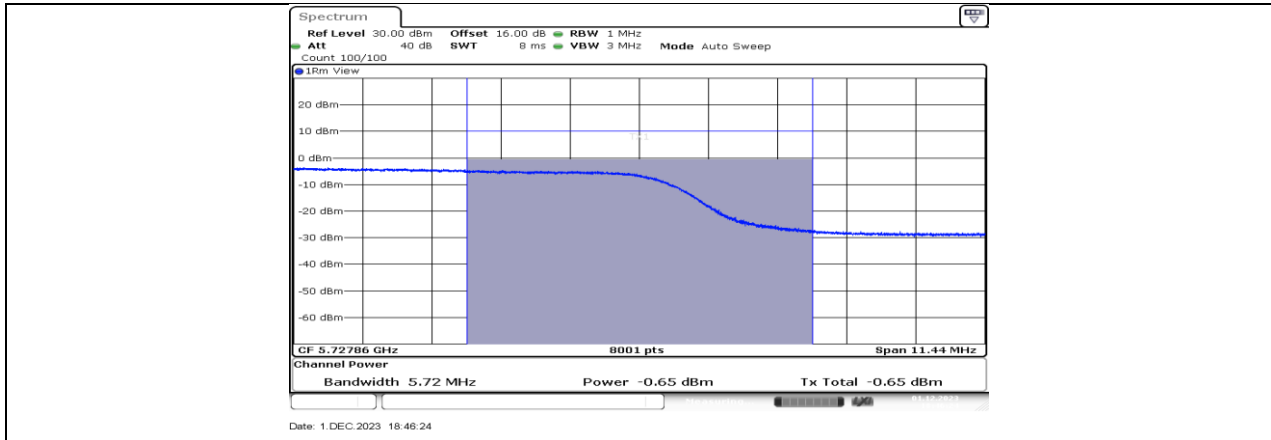
11N20MIMO_Ant1_5720_UNII-2C

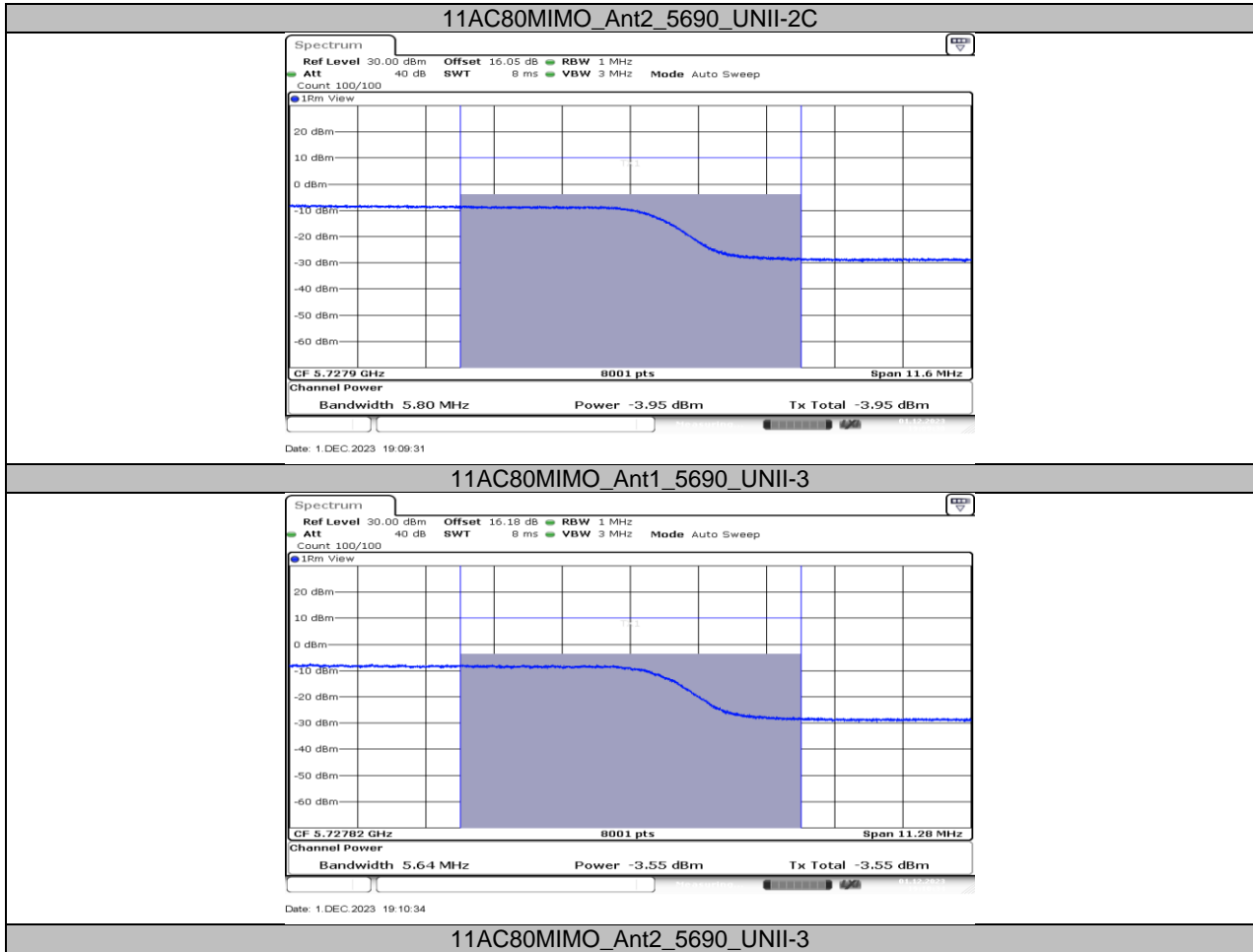


11N20MIMO_Ant2_5720_UNII-2C









11.5. APPENDIX E: MAXIMUM POWER SPECTRAL DENSITY

11.5.1. Test Result

| Test Mode | Antenna | Frequency[MHz] | Power [dBm/MHz] | Limit [dBm/MHz] | EIRP [dBm/MHz] | Limit [dBm/MHz] | Verdict | |
|-----------|-----------|----------------|-----------------|-----------------|----------------|-----------------|---------|------|
| 11A | Ant1 | 5180 | 2.45 | ≤11.00 | 6.46 | ≤10.00 | PASS | |
| | Ant2 | 5180 | 3.00 | ≤11.00 | 6.13 | ≤10.00 | PASS | |
| | Ant1 | 5200 | 2.40 | ≤11.00 | 6.41 | ≤10.00 | PASS | |
| | Ant2 | 5200 | 2.47 | ≤11.00 | 5.60 | ≤10.00 | PASS | |
| | Ant1 | 5240 | 2.39 | ≤11.00 | 6.40 | ≤10.00 | PASS | |
| | Ant2 | 5240 | 3.06 | ≤11.00 | 6.19 | ≤10.00 | PASS | |
| | Ant1 | 5260 | 2.64 | ≤11.00 | 6.65 | --- | PASS | |
| | Ant2 | 5260 | 3.10 | ≤11.00 | 6.23 | --- | PASS | |
| | Ant1 | 5280 | 2.81 | ≤11.00 | 6.82 | --- | PASS | |
| | Ant2 | 5280 | 3.25 | ≤11.00 | 6.38 | --- | PASS | |
| | Ant1 | 5320 | 2.49 | ≤11.00 | 6.50 | --- | PASS | |
| | Ant2 | 5320 | 2.68 | ≤11.00 | 5.81 | --- | PASS | |
| | Ant1 | 5500 | 2.34 | ≤11.00 | 6.35 | --- | PASS | |
| | Ant2 | 5500 | 2.83 | ≤11.00 | 5.96 | --- | PASS | |
| | Ant1 | 5580 | 2.97 | ≤11.00 | 6.98 | --- | PASS | |
| | Ant2 | 5580 | 2.67 | ≤11.00 | 5.80 | --- | PASS | |
| | Ant1 | 5700 | 2.46 | ≤11.00 | 6.47 | --- | PASS | |
| | Ant2 | 5700 | 2.61 | ≤11.00 | 5.74 | --- | PASS | |
| | Ant1 | 5720_UNII-2C | 1.96 | ≤11.00 | 5.97 | --- | PASS | |
| | Ant2 | 5720_UNII-2C | 2.18 | ≤11.00 | 5.31 | --- | PASS | |
| | Ant1 | 5720_UNII-3 | -2.61 | ≤30.00 | 1.40 | --- | PASS | |
| | Ant2 | 5720_UNII-3 | -2.43 | ≤30.00 | 0.70 | --- | PASS | |
| | Ant1 | 5745 | -0.26 | ≤30.00 | 3.75 | --- | PASS | |
| | Ant2 | 5745 | -0.03 | ≤30.00 | 3.10 | --- | PASS | |
| | Ant1 | 5785 | -0.17 | ≤30.00 | 3.84 | --- | PASS | |
| | Ant2 | 5785 | -0.06 | ≤30.00 | 3.07 | --- | PASS | |
| | Ant1 | 5825 | -0.19 | ≤30.00 | 3.82 | --- | PASS | |
| | Ant2 | 5825 | -0.02 | ≤30.00 | 3.11 | --- | PASS | |
| | 11N20MIMO | Ant1 | 5180 | -1.96 | ≤11.00 | 2.05 | ≤10.00 | PASS |
| | | Ant2 | 5180 | -0.36 | ≤11.00 | 3.65 | ≤10.00 | PASS |
| total | | 5180 | 1.92 | ≤9.98 | 8.94 | ≤10.00 | PASS | |
| Ant1 | | 5200 | -1.99 | ≤11.00 | 2.02 | ≤10.00 | PASS | |
| Ant2 | | 5200 | -0.16 | ≤11.00 | 3.85 | ≤10.00 | PASS | |
| total | | 5200 | 2.03 | ≤9.98 | 9.05 | ≤10.00 | PASS | |
| Ant1 | | 5240 | -1.81 | ≤11.00 | 2.20 | ≤10.00 | PASS | |
| Ant2 | | 5240 | -0.52 | ≤11.00 | 3.49 | ≤10.00 | PASS | |
| total | | 5240 | 1.89 | ≤9.98 | 8.91 | ≤10.00 | PASS | |
| Ant1 | | 5260 | 1.90 | ≤11.00 | 5.91 | --- | PASS | |
| Ant2 | | 5260 | 2.89 | ≤11.00 | 6.90 | --- | PASS | |
| total | | 5260 | 5.43 | ≤9.98 | 12.45 | --- | PASS | |
| Ant1 | | 5280 | 2.36 | ≤11.00 | 6.37 | --- | PASS | |
| Ant2 | | 5280 | 2.92 | ≤11.00 | 6.93 | --- | PASS | |
| total | | 5280 | 5.66 | ≤9.98 | 12.68 | --- | PASS | |
| Ant1 | | 5320 | 1.95 | ≤11.00 | 5.96 | --- | PASS | |
| Ant2 | | 5320 | 2.51 | ≤11.00 | 6.52 | --- | PASS | |
| total | | 5320 | 5.25 | ≤9.98 | 12.27 | --- | PASS | |
| Ant1 | | 5500 | 2.31 | ≤11.00 | 6.32 | --- | PASS | |
| Ant2 | | 5500 | 2.58 | ≤11.00 | 6.59 | --- | PASS | |
| total | | 5500 | 5.46 | ≤9.98 | 12.48 | --- | PASS | |
| Ant1 | | 5580 | 2.32 | ≤11.00 | 6.33 | --- | PASS | |
| Ant2 | | 5580 | 2.46 | ≤11.00 | 6.47 | --- | PASS | |
| total | | 5580 | 5.40 | ≤9.98 | 12.42 | --- | PASS | |
| Ant1 | | 5700 | 2.51 | ≤11.00 | 6.52 | --- | PASS | |
| Ant2 | | 5700 | 2.53 | ≤11.00 | 6.54 | --- | PASS | |
| total | | 5700 | 5.53 | ≤9.98 | 12.55 | --- | PASS | |
| Ant1 | | 5720_UNII-2C | 1.10 | ≤11.00 | 5.11 | --- | PASS | |
| Ant2 | | 5720_UNII-2C | 1.85 | ≤11.00 | 5.86 | --- | PASS | |
| total | | 5720_UNII-2C | 4.50 | ≤9.98 | 11.52 | --- | PASS | |

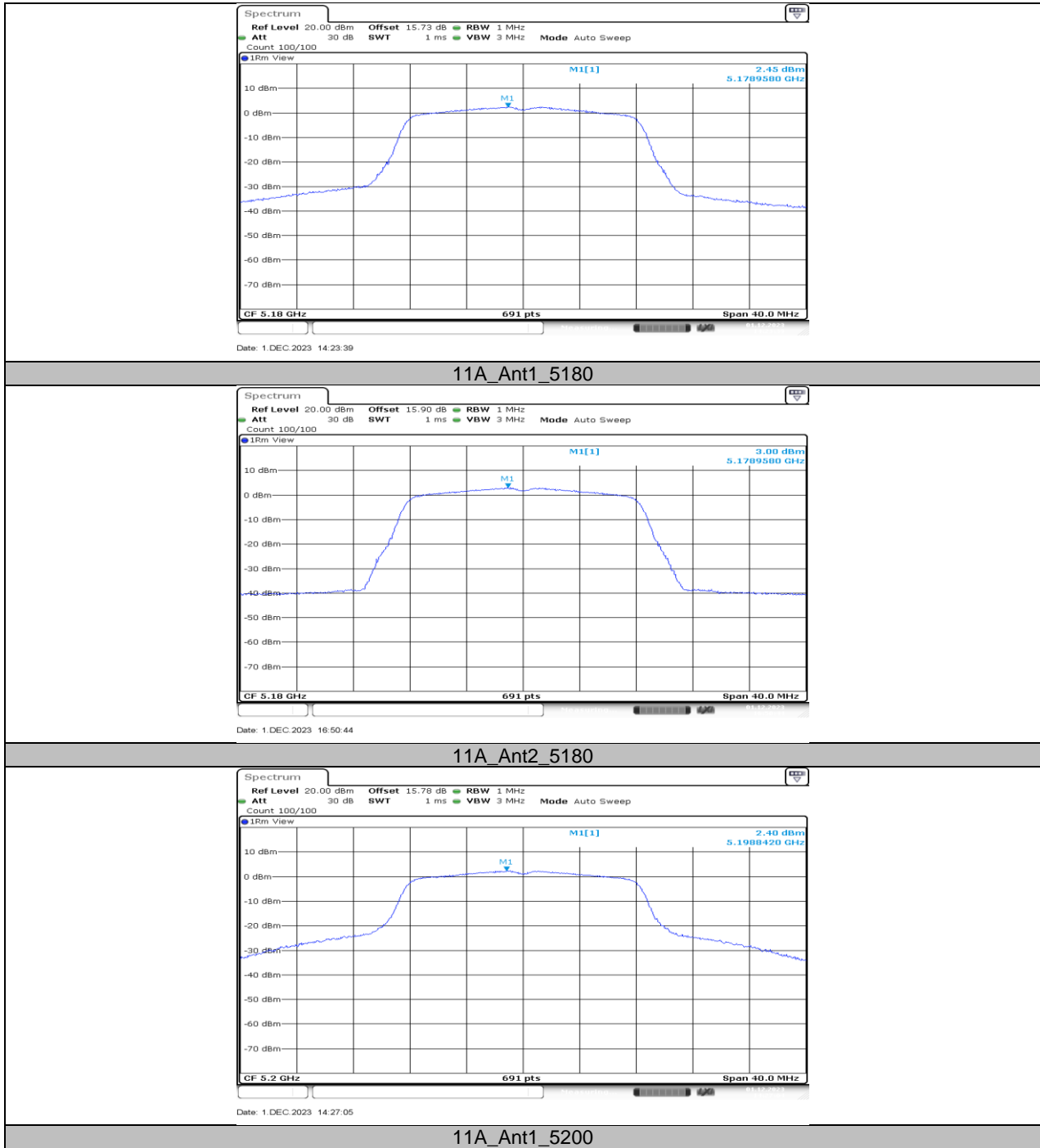
| | | | | | | | |
|------------|-------|--------------|--------|--------|-------|--------|------|
| | Ant1 | 5720_UNII-3 | -3.37 | ≤30.00 | 0.64 | --- | PASS |
| | Ant2 | 5720_UNII-3 | -2.85 | ≤30.00 | 1.16 | --- | PASS |
| | total | 5720_UNII-3 | -0.09 | ≤28.98 | 6.93 | --- | PASS |
| | Ant1 | 5745 | -1.33 | ≤30.00 | 2.68 | --- | PASS |
| | Ant2 | 5745 | -0.36 | ≤30.00 | 3.65 | --- | PASS |
| | total | 5745 | 2.19 | ≤28.98 | 9.21 | --- | PASS |
| | Ant1 | 5785 | -1.14 | ≤30.00 | 2.87 | --- | PASS |
| | Ant2 | 5785 | -0.87 | ≤30.00 | 3.14 | --- | PASS |
| | total | 5785 | 2.01 | ≤28.98 | 9.03 | --- | PASS |
| | Ant1 | 5825 | -0.97 | ≤30.00 | 3.04 | --- | PASS |
| | Ant2 | 5825 | -0.54 | ≤30.00 | 3.47 | --- | PASS |
| | total | 5825 | 2.26 | ≤28.98 | 9.28 | --- | PASS |
| 11N40MIMO | Ant1 | 5190 | -1.98 | ≤11.00 | 2.03 | ≤10.00 | PASS |
| | Ant2 | 5190 | -0.24 | ≤11.00 | 3.77 | ≤10.00 | PASS |
| | total | 5190 | 1.99 | ≤9.98 | 9.01 | ≤10.00 | PASS |
| | Ant1 | 5230 | -1.86 | ≤11.00 | 2.15 | ≤10.00 | PASS |
| | Ant2 | 5230 | -0.69 | ≤11.00 | 3.32 | ≤10.00 | PASS |
| | total | 5230 | 1.77 | ≤9.98 | 8.79 | ≤10.00 | PASS |
| | Ant1 | 5270 | -0.28 | ≤11.00 | 3.73 | --- | PASS |
| | Ant2 | 5270 | 0.22 | ≤11.00 | 4.23 | --- | PASS |
| | total | 5270 | 2.99 | ≤9.98 | 10.01 | --- | PASS |
| | Ant1 | 5310 | -0.67 | ≤11.00 | 3.34 | --- | PASS |
| | Ant2 | 5310 | -0.10 | ≤11.00 | 3.91 | --- | PASS |
| | total | 5310 | 2.63 | ≤9.98 | 9.65 | --- | PASS |
| | Ant1 | 5510 | -0.51 | ≤11.00 | 3.50 | --- | PASS |
| | Ant2 | 5510 | -0.15 | ≤11.00 | 3.86 | --- | PASS |
| | total | 5510 | 2.68 | ≤9.98 | 9.70 | --- | PASS |
| | Ant1 | 5550 | 0.01 | ≤11.00 | 4.02 | --- | PASS |
| | Ant2 | 5550 | -0.17 | ≤11.00 | 3.84 | --- | PASS |
| | total | 5550 | 2.93 | ≤9.98 | 9.95 | --- | PASS |
| | Ant1 | 5670 | -0.33 | ≤11.00 | 3.68 | --- | PASS |
| | Ant2 | 5670 | -0.21 | ≤11.00 | 3.80 | --- | PASS |
| | total | 5670 | 2.74 | ≤9.98 | 9.76 | --- | PASS |
| | Ant1 | 5710_UNII-2C | -0.76 | ≤11.00 | 3.25 | --- | PASS |
| | Ant2 | 5710_UNII-2C | -0.88 | ≤11.00 | 3.13 | --- | PASS |
| | total | 5710_UNII-2C | 2.19 | ≤9.98 | 9.21 | --- | PASS |
| | Ant1 | 5710_UNII-3 | -7.47 | ≤30.00 | -3.46 | --- | PASS |
| | Ant2 | 5710_UNII-3 | -6.70 | ≤30.00 | -2.69 | --- | PASS |
| | total | 5710_UNII-3 | -4.06 | ≤28.98 | 2.96 | --- | PASS |
| | Ant1 | 5755 | -4.59 | ≤30.00 | -0.58 | --- | PASS |
| | Ant2 | 5755 | -3.97 | ≤30.00 | 0.04 | --- | PASS |
| | total | 5755 | -1.26 | ≤28.98 | 5.76 | --- | PASS |
| Ant1 | 5795 | -3.80 | ≤30.00 | 0.21 | --- | PASS | |
| Ant2 | 5795 | -3.63 | ≤30.00 | 0.38 | --- | PASS | |
| total | 5795 | -0.70 | ≤28.98 | 6.32 | --- | PASS | |
| 11AC80MIMO | Ant1 | 5210 | -6.54 | ≤11.00 | -2.53 | ≤10.00 | PASS |
| | Ant2 | 5210 | -5.09 | ≤11.00 | -1.08 | ≤10.00 | PASS |
| | total | 5210 | -2.74 | ≤9.98 | 4.28 | ≤10.00 | PASS |
| | Ant1 | 5290 | -4.54 | ≤11.00 | -0.53 | --- | PASS |
| | Ant2 | 5290 | -4.18 | ≤11.00 | -0.17 | --- | PASS |
| | total | 5290 | -1.35 | ≤9.98 | 5.67 | --- | PASS |
| | Ant1 | 5530 | -3.97 | ≤11.00 | 0.04 | --- | PASS |
| | Ant2 | 5530 | -3.81 | ≤11.00 | 0.20 | --- | PASS |
| | total | 5530 | -0.88 | ≤9.98 | 6.14 | --- | PASS |
| | Ant1 | 5610 | -4.65 | ≤11.00 | -0.64 | --- | PASS |
| | Ant2 | 5610 | -3.91 | ≤11.00 | 0.10 | --- | PASS |
| | total | 5610 | -1.25 | ≤9.98 | 5.77 | --- | PASS |
| | Ant1 | 5690_UNII-2C | -3.61 | ≤11.00 | 0.40 | --- | PASS |
| | Ant2 | 5690_UNII-2C | -4.04 | ≤11.00 | -0.03 | --- | PASS |
| | total | 5690_UNII-2C | -0.81 | ≤9.98 | 6.21 | --- | PASS |
| | Ant1 | 5690_UNII-3 | -10.95 | ≤30.00 | -6.94 | --- | PASS |
| | Ant2 | 5690_UNII-3 | -10.62 | ≤30.00 | -6.61 | --- | PASS |
| | total | 5690_UNII-3 | -7.77 | ≤28.98 | -0.75 | --- | PASS |
| Ant1 | 5775 | -7.75 | ≤30.00 | -3.74 | --- | PASS | |

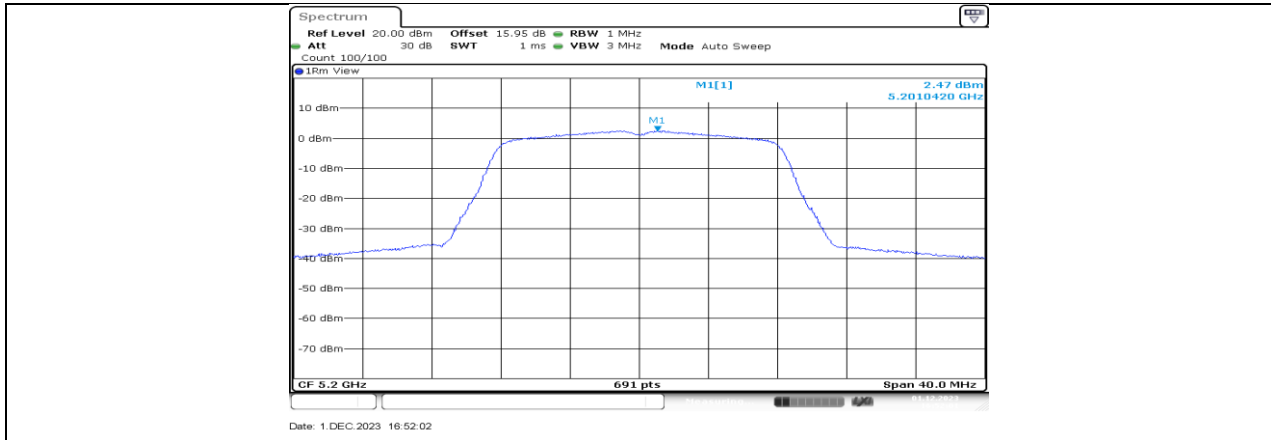
| | | | | | | | |
|--|-------|------|-------|--------------|-------|-----|------|
| | Ant2 | 5775 | -6.94 | ≤ 30.00 | -2.93 | --- | PASS |
| | total | 5775 | -4.32 | ≤ 28.98 | 2.70 | --- | PASS |

Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

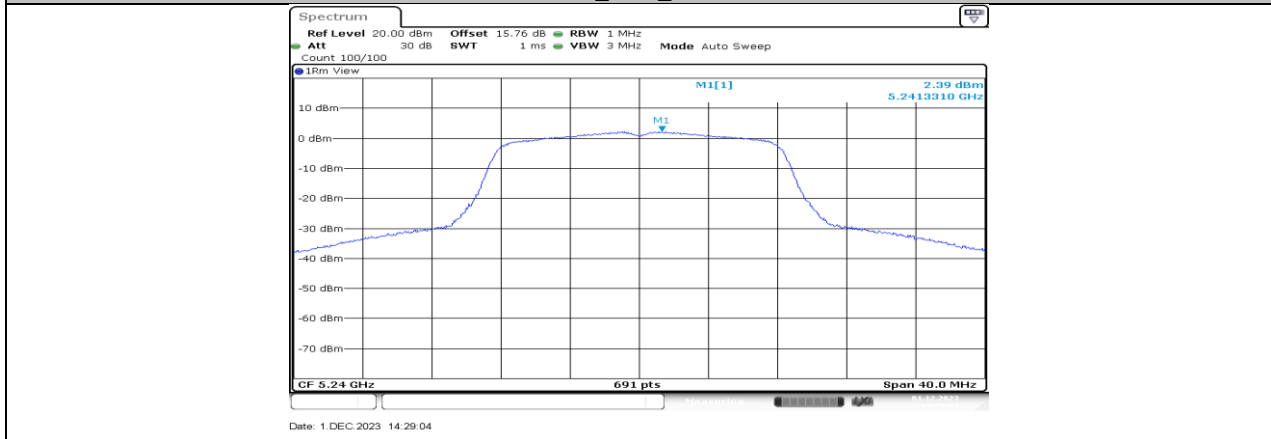
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

11.5.2. Test Graphs

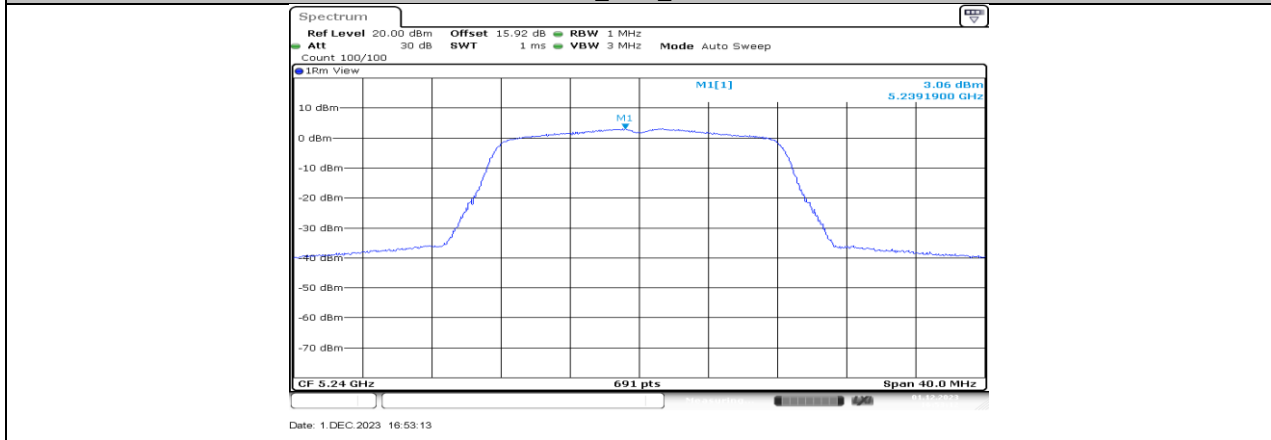




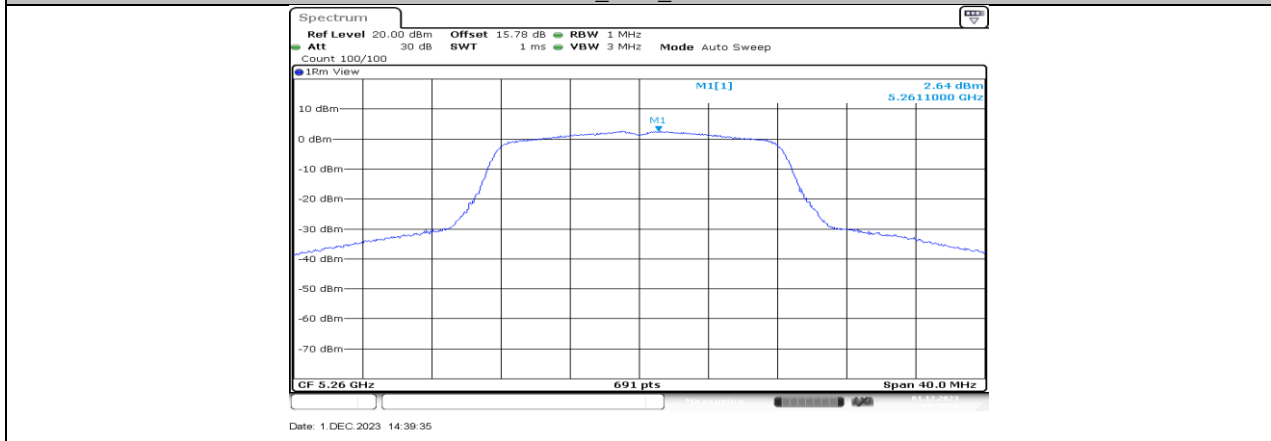
11A_Ant2_5200

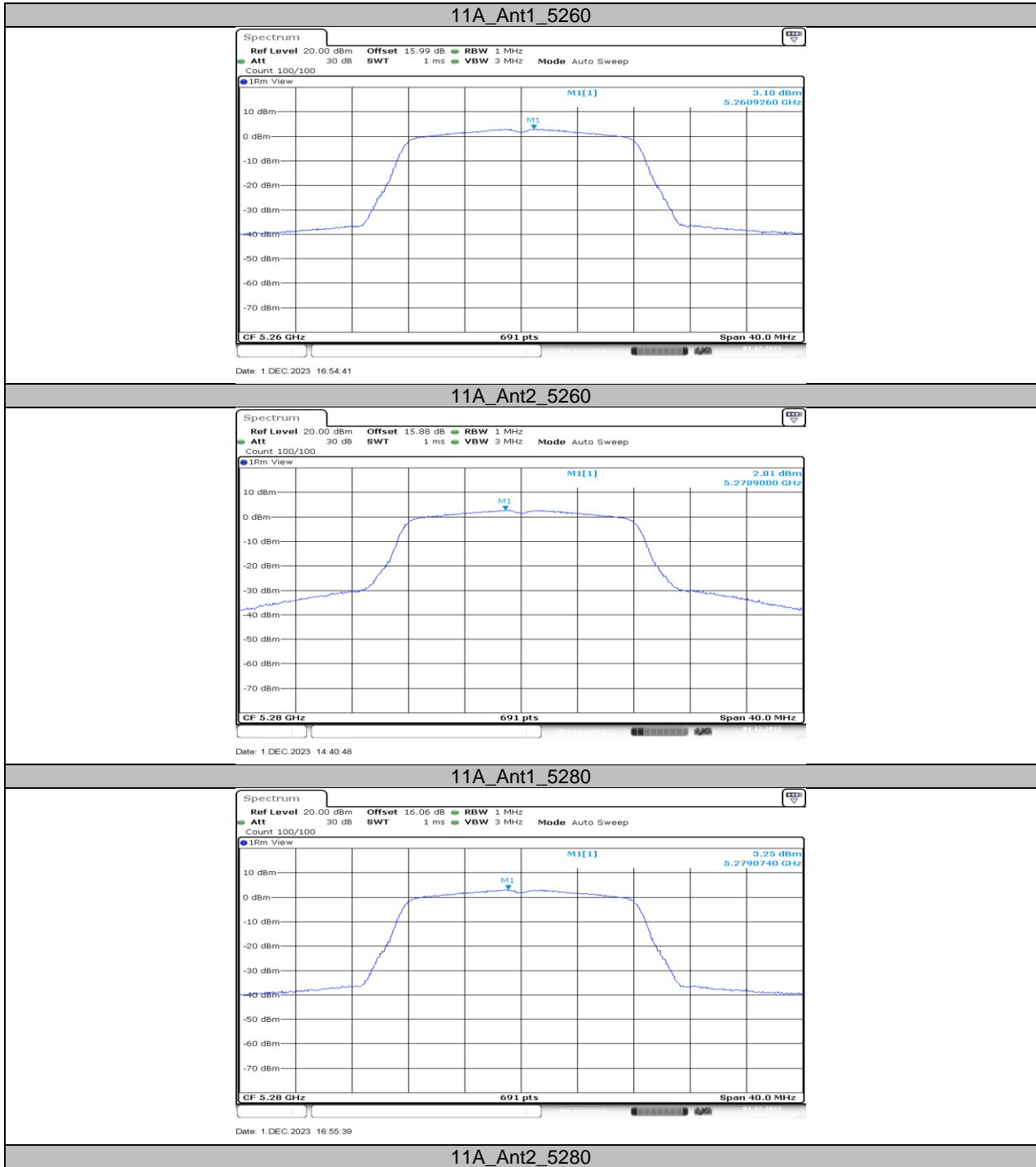


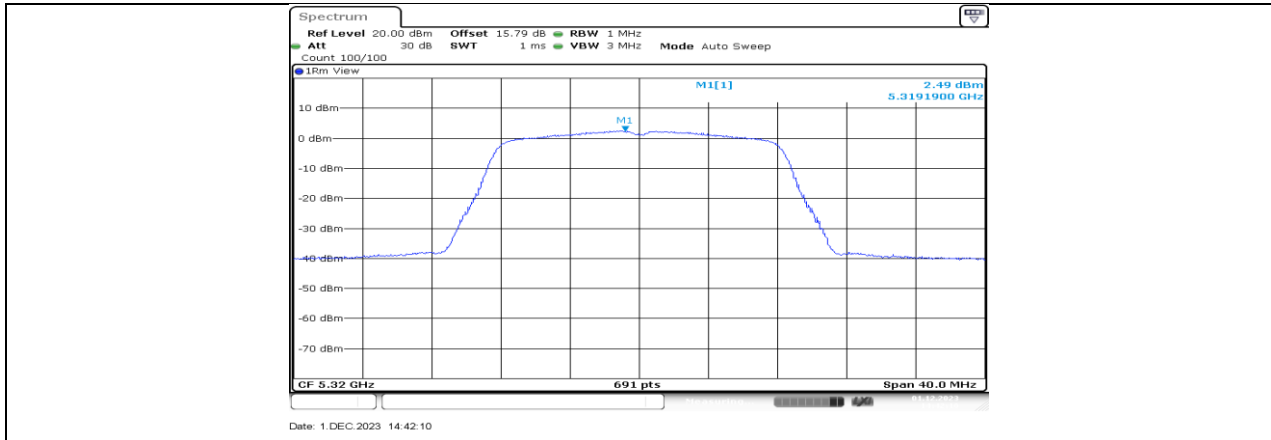
11A_Ant1_5240



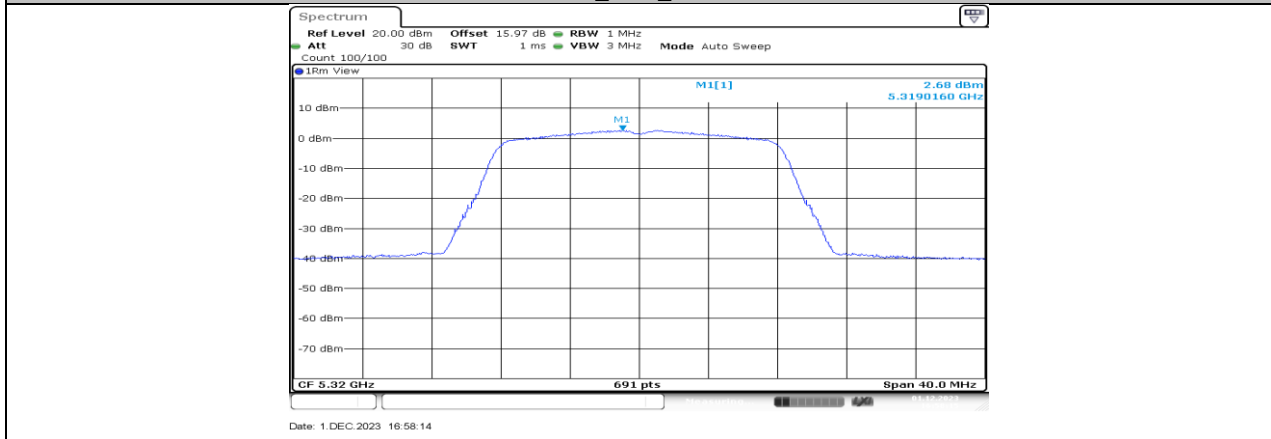
11A_Ant2_5240



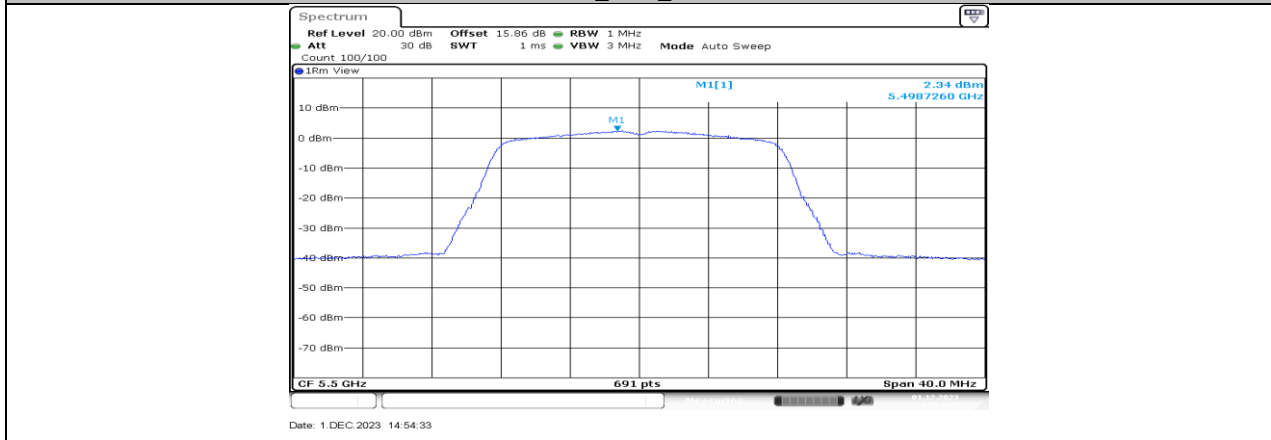




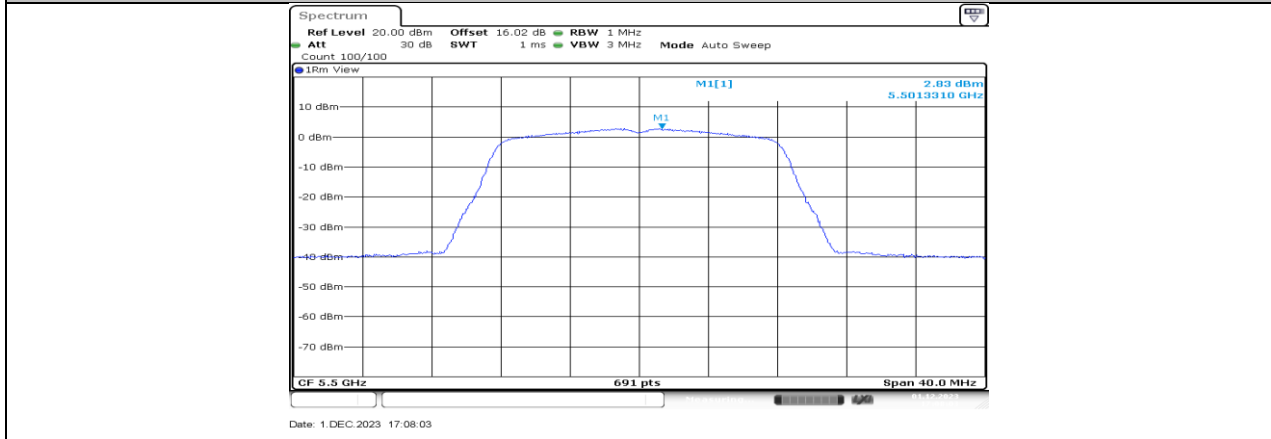
11A_Ant1_5320

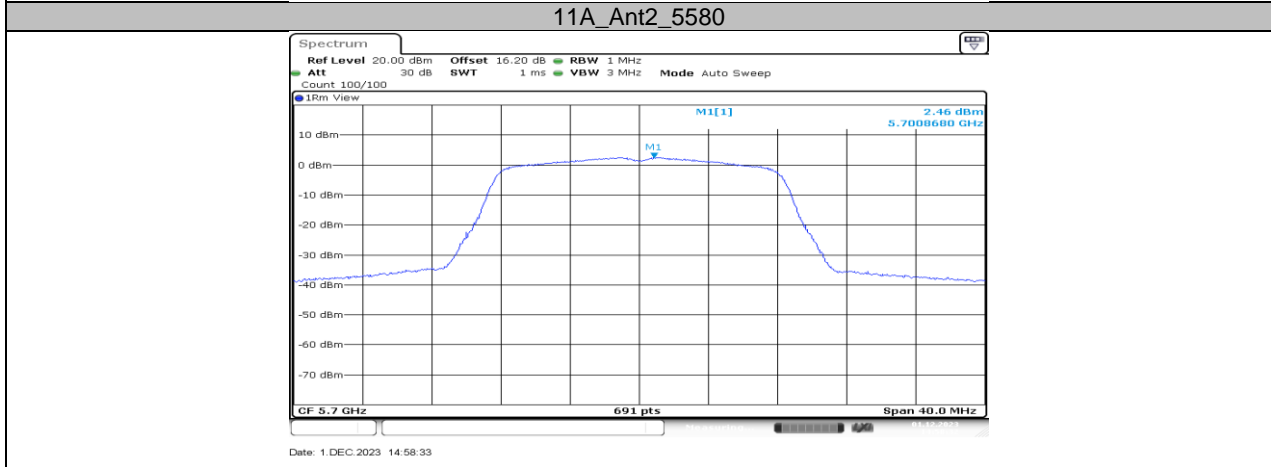
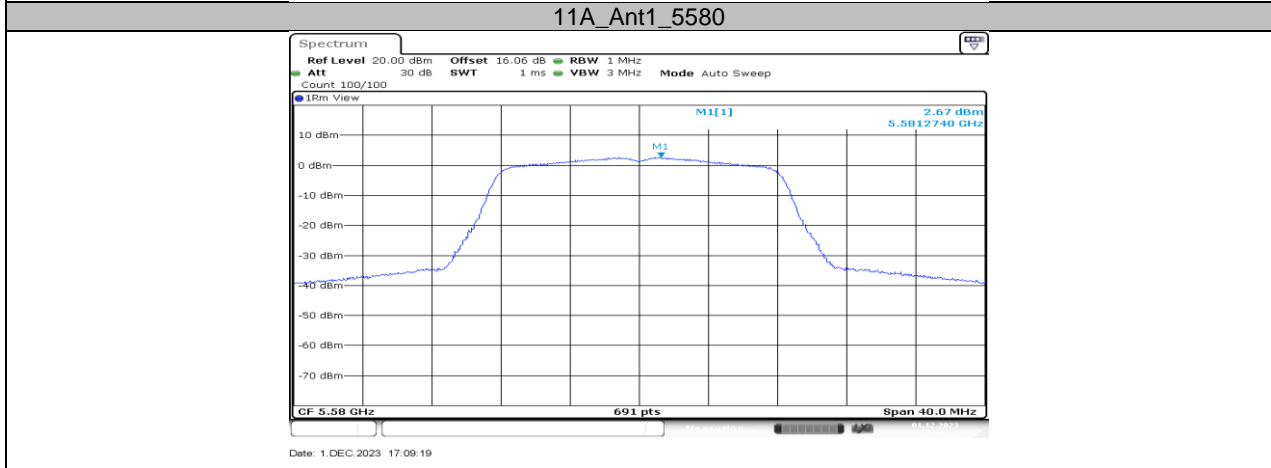
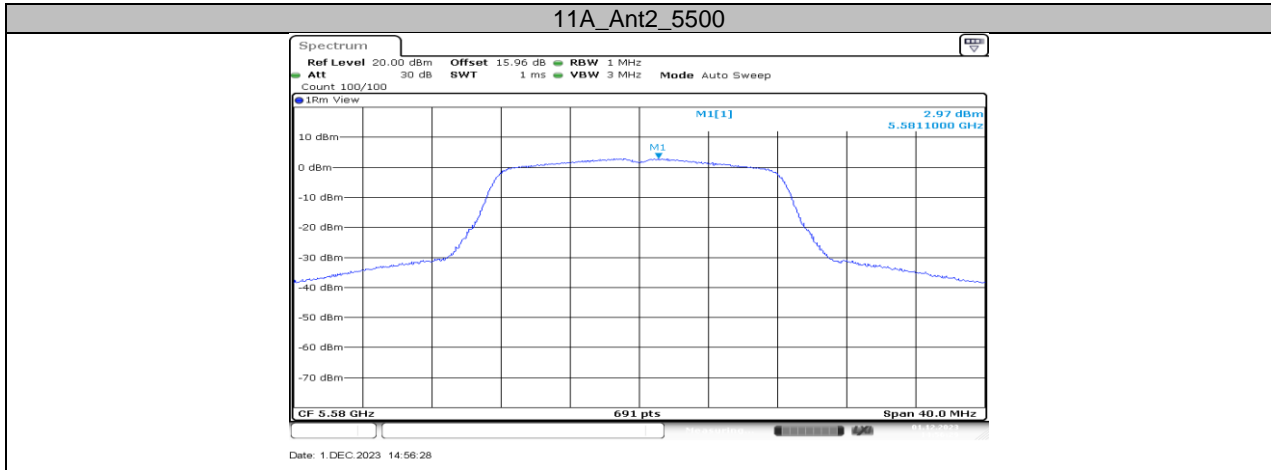


11A_Ant2_5320

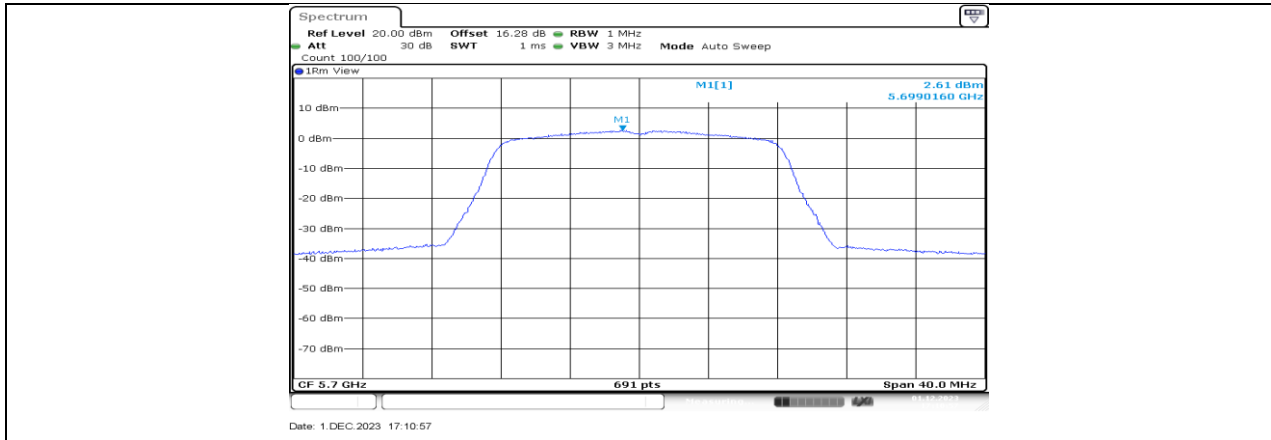


11A_Ant1_5500

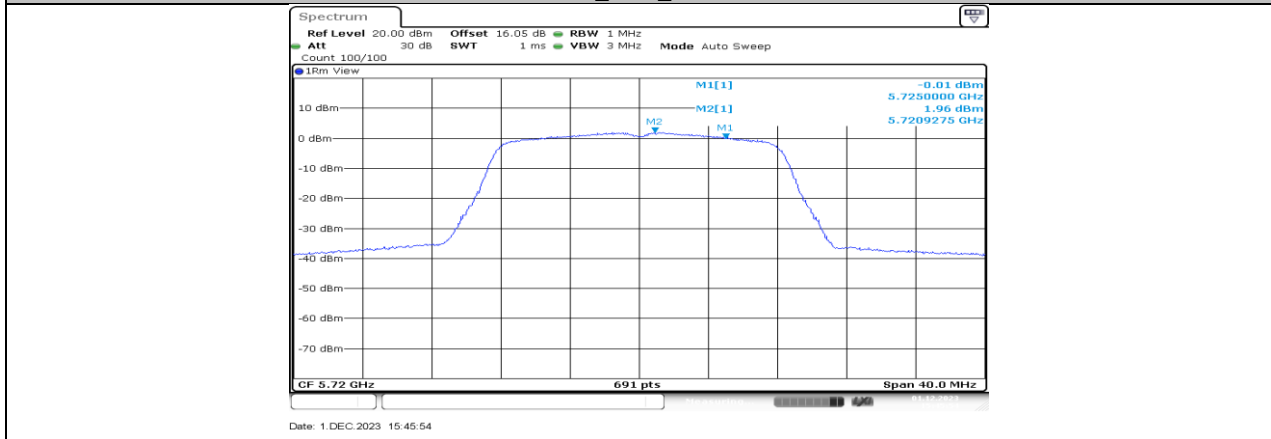




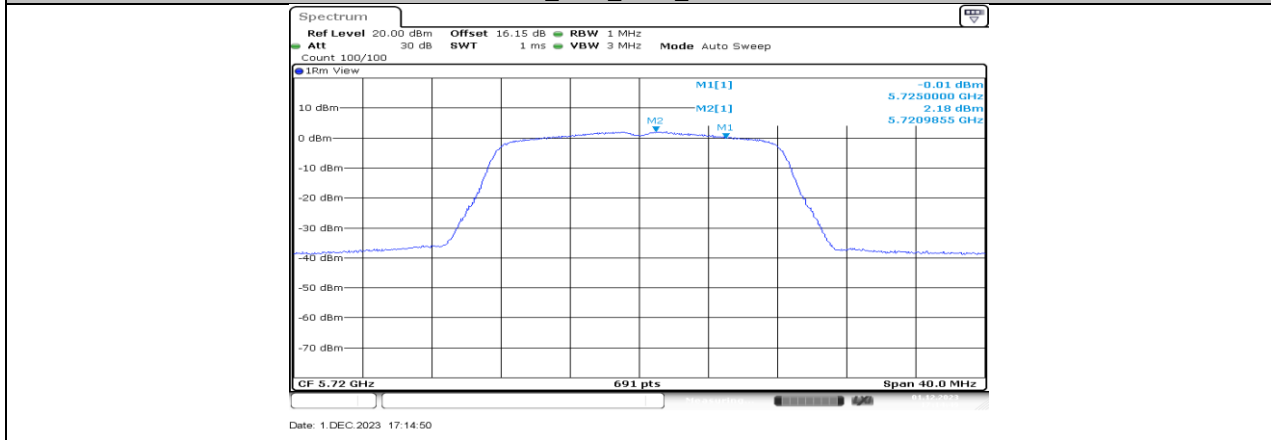
11A_Ant1_5700



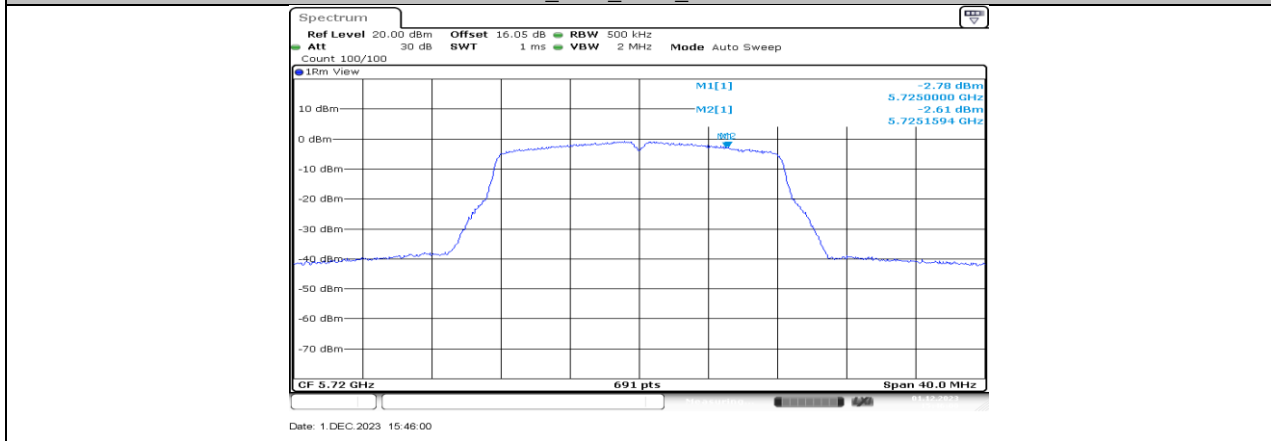
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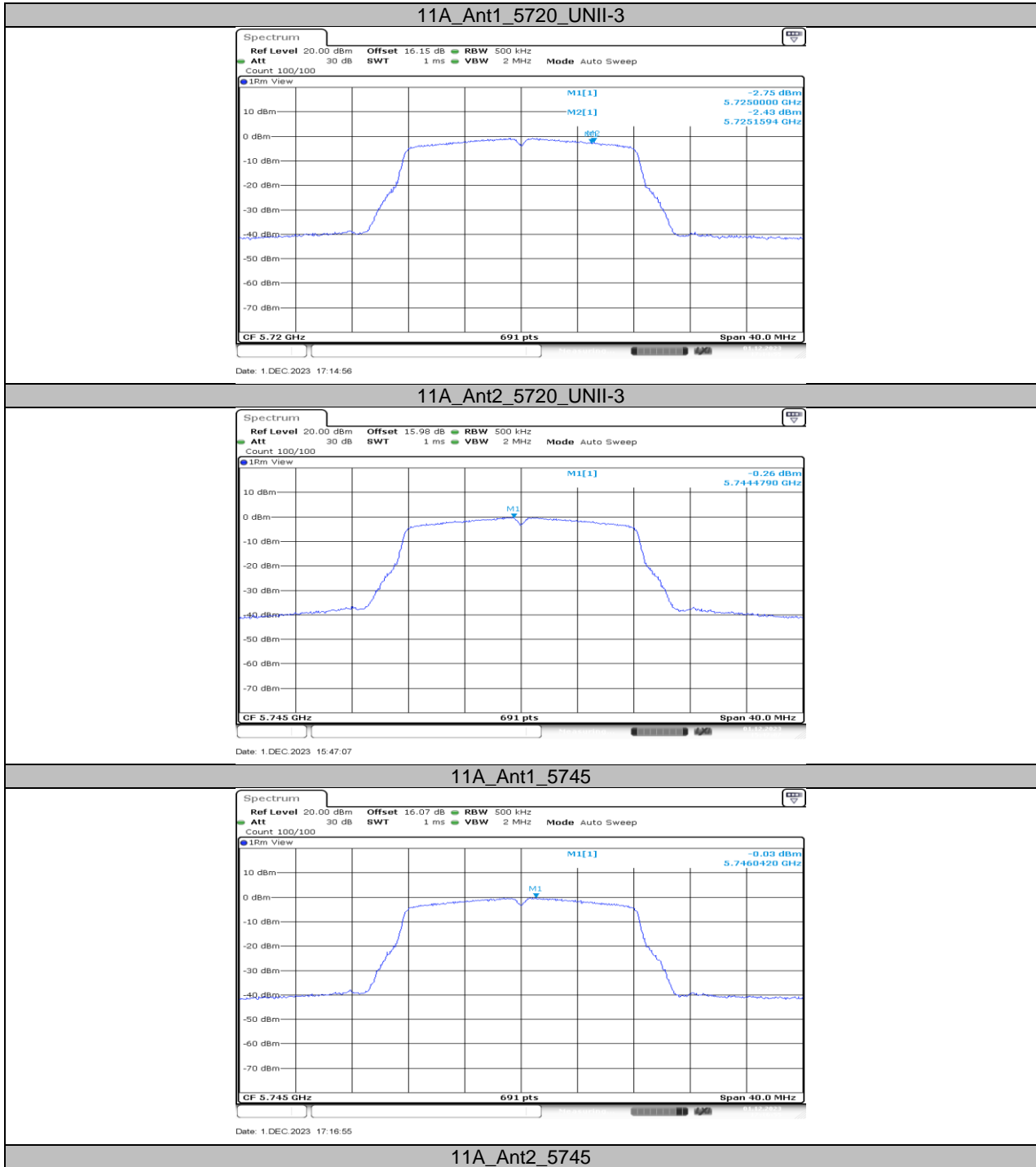


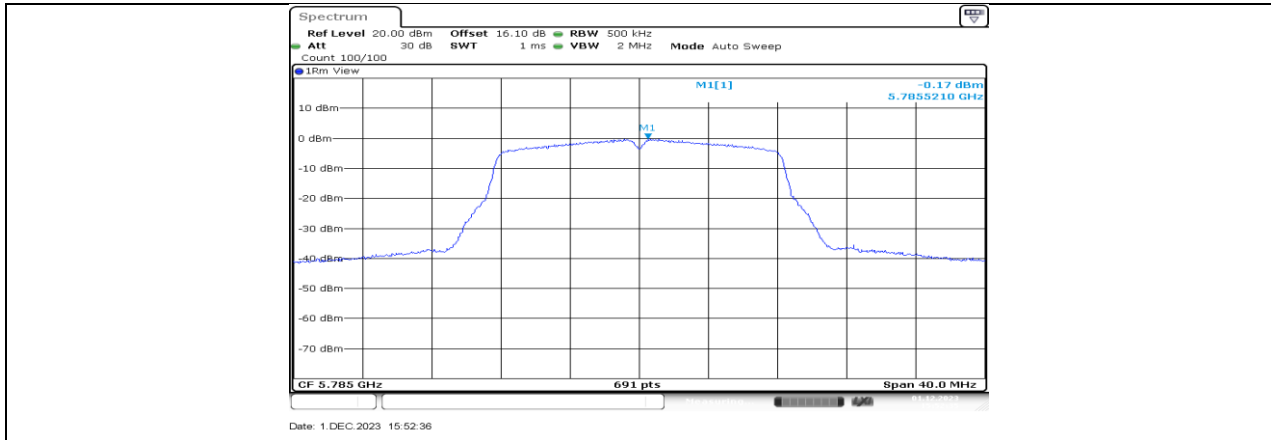
11A_Ant1_5720_UNII-2C



11A_Ant2_5720_UNII-2C



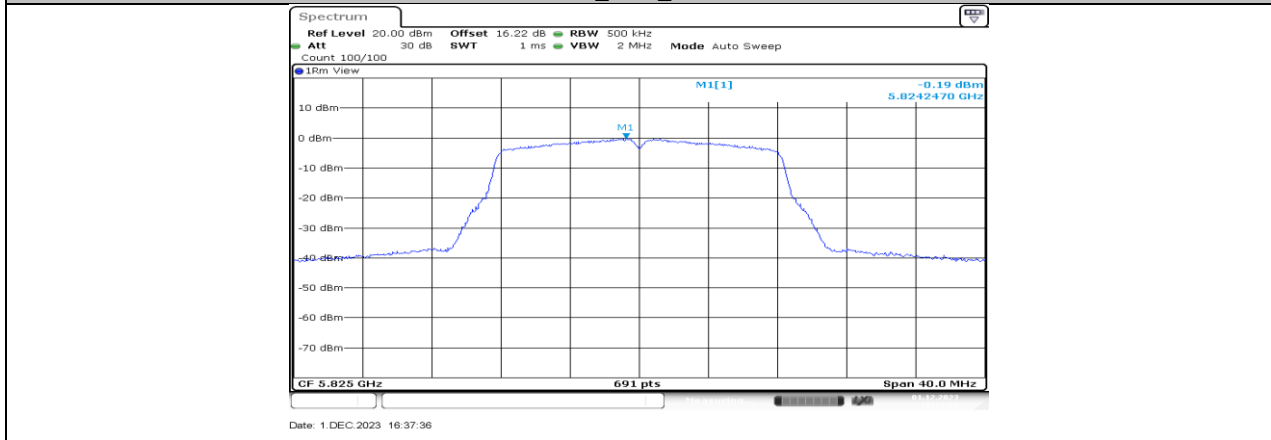




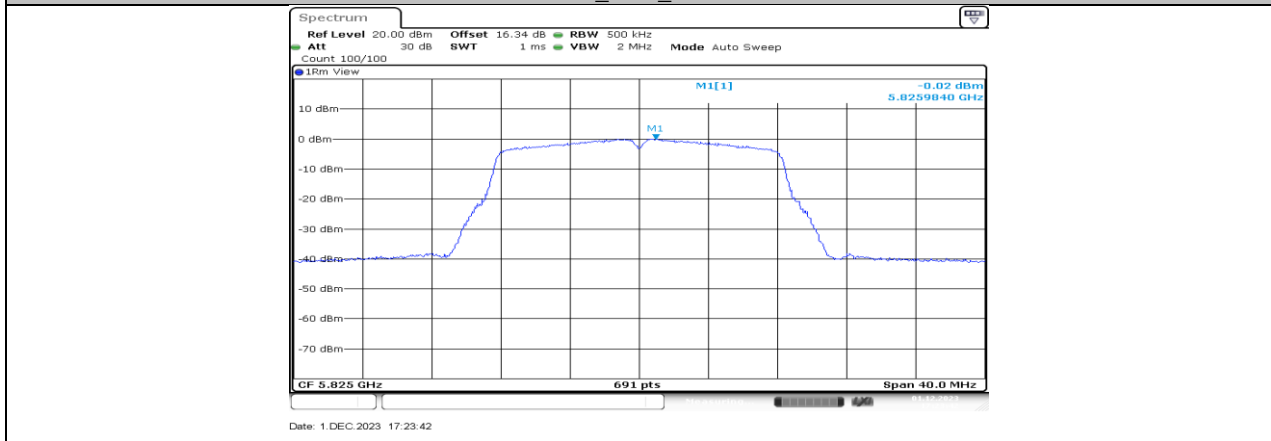
11A_Ant1_5785

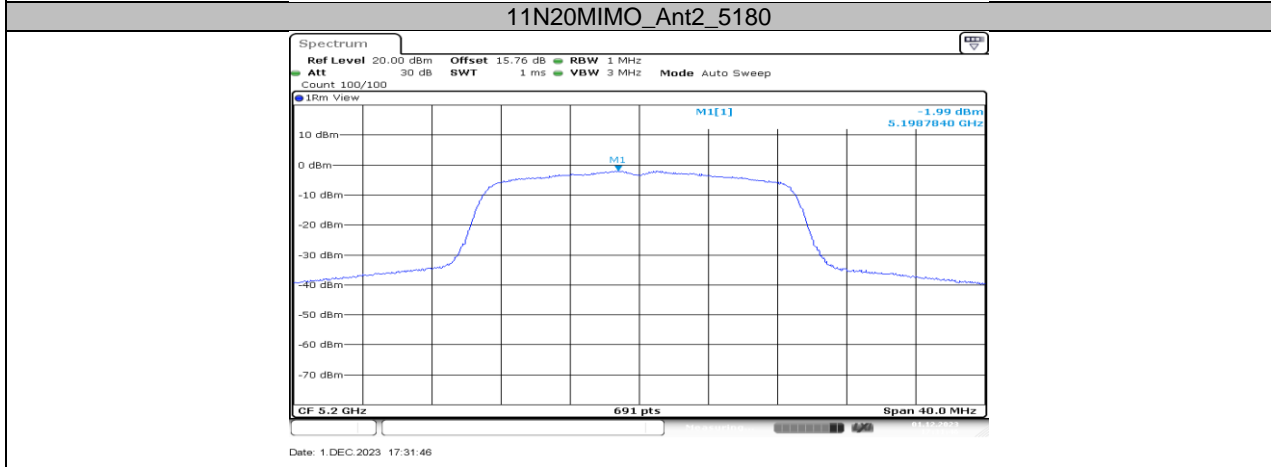
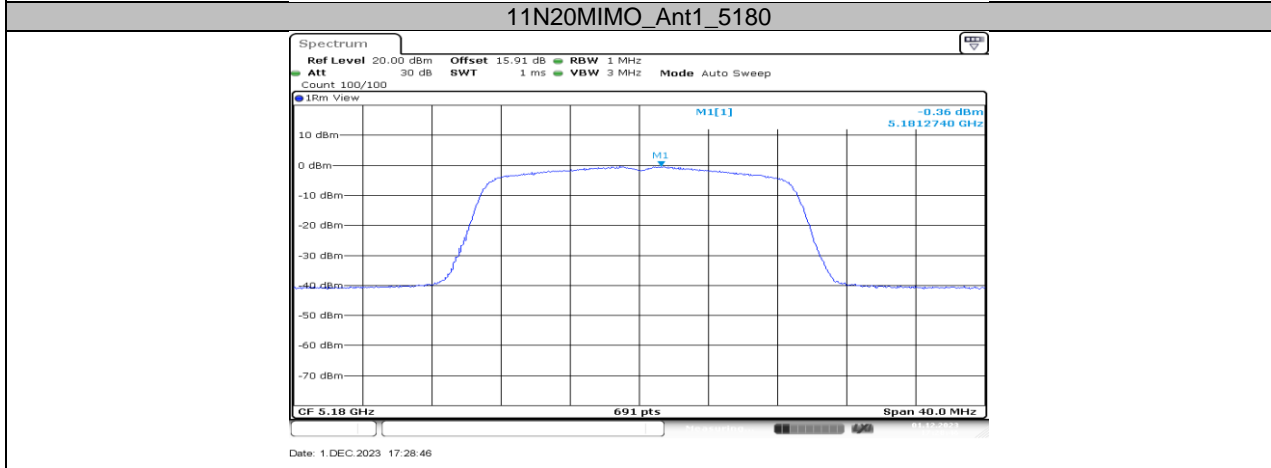
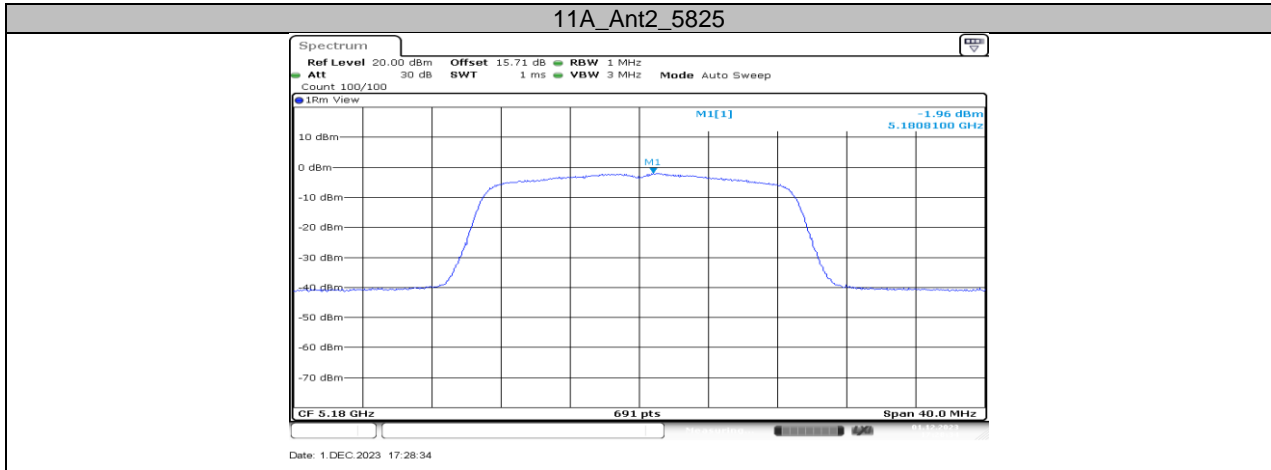


11A_Ant2_5785

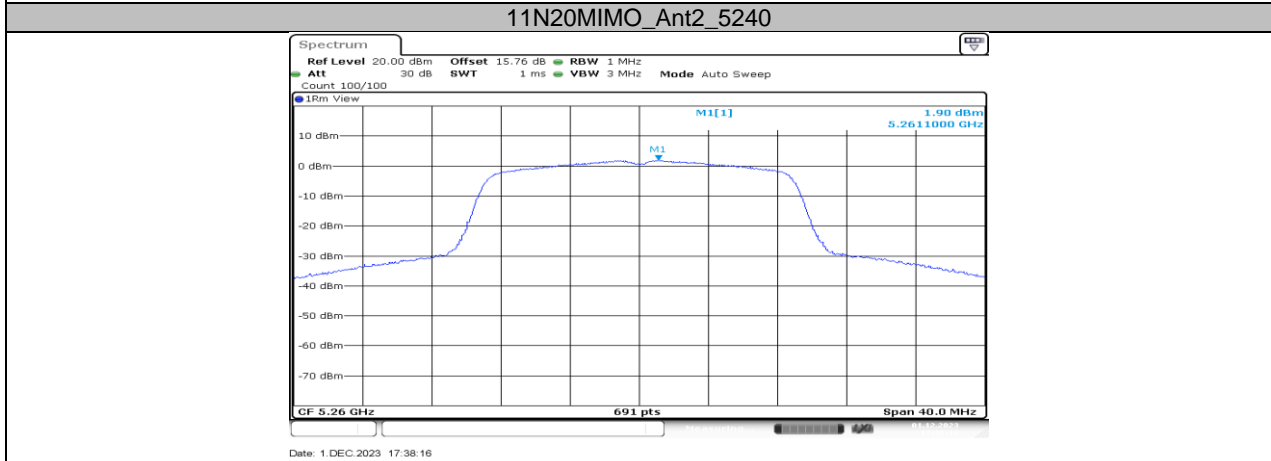
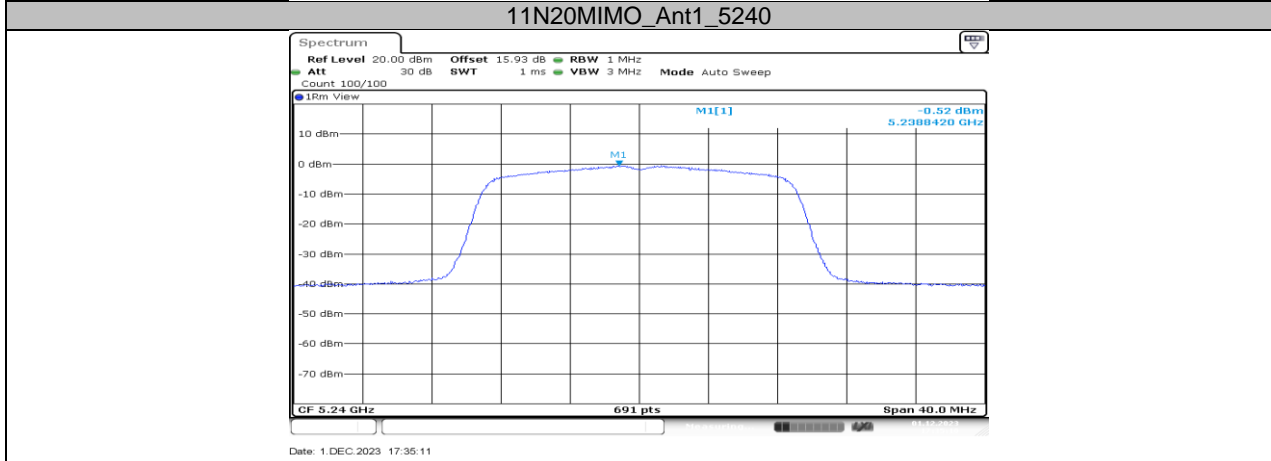
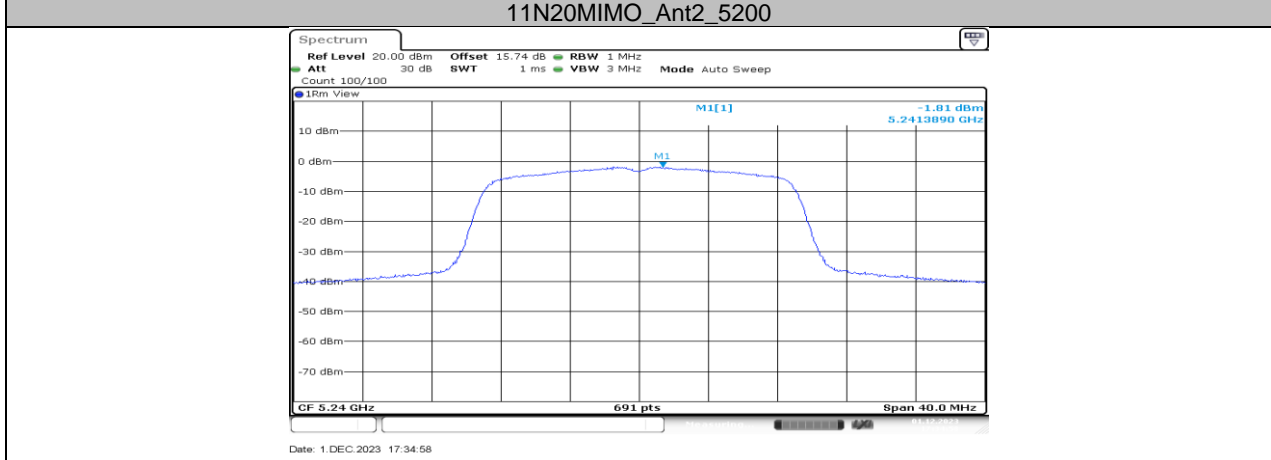
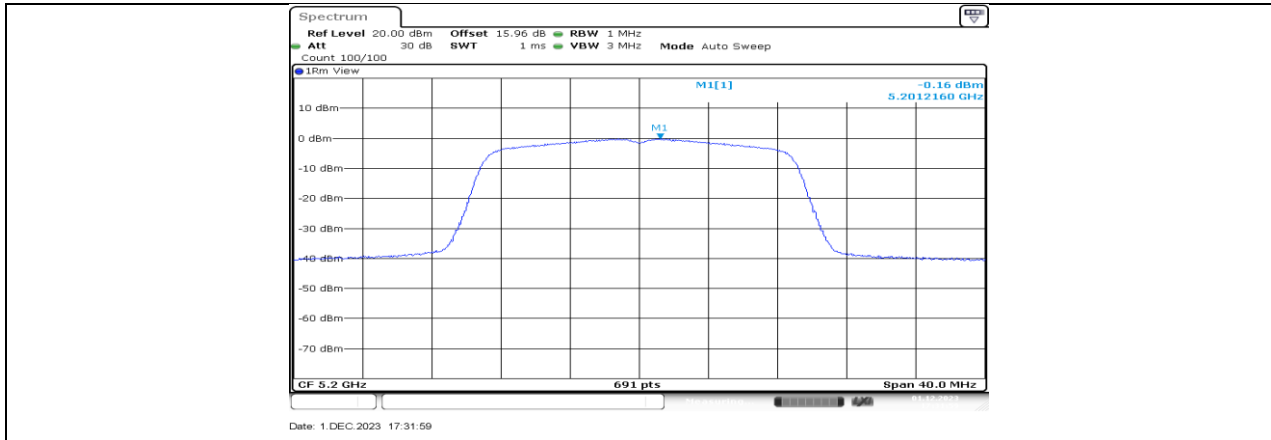


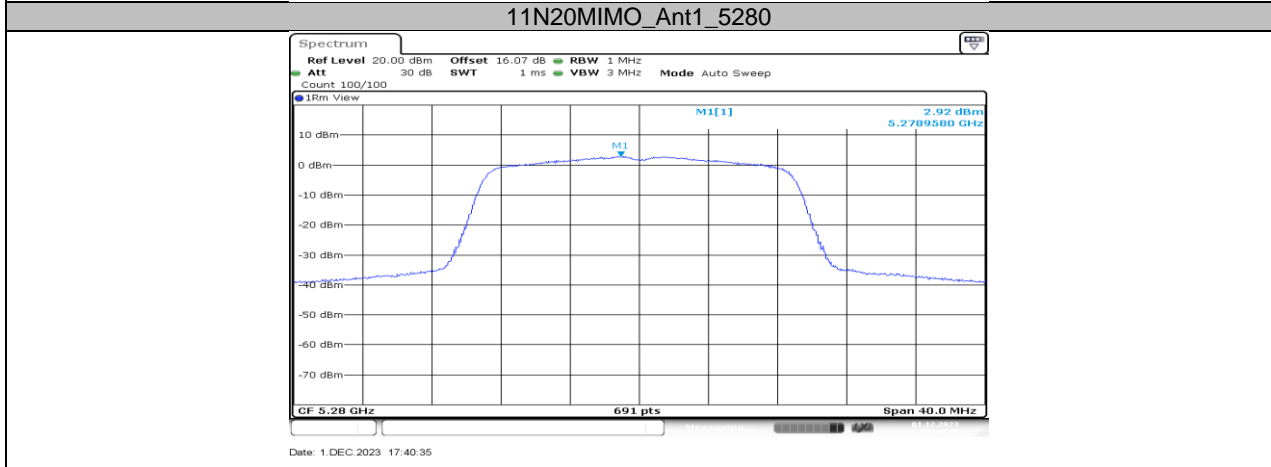
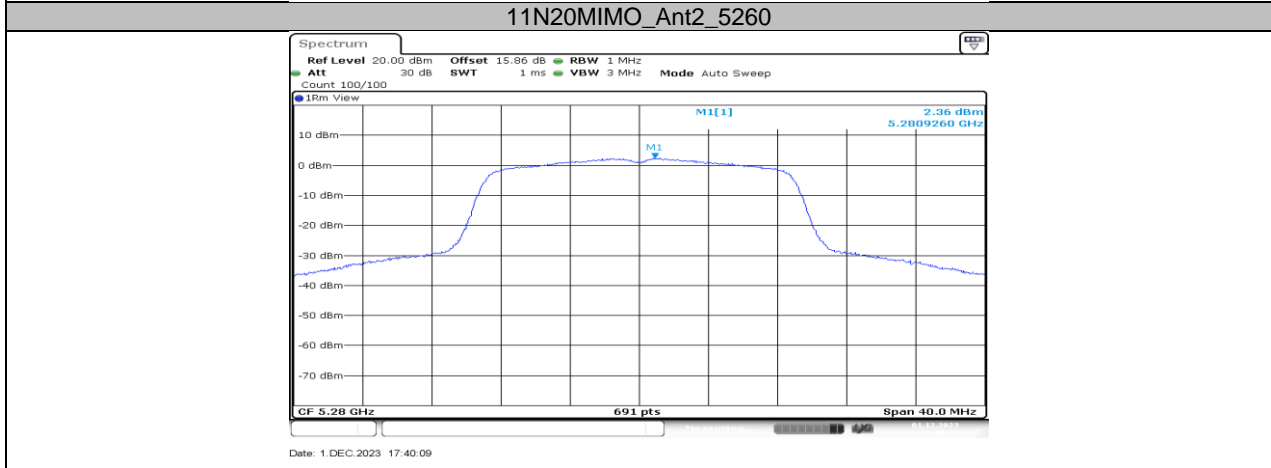
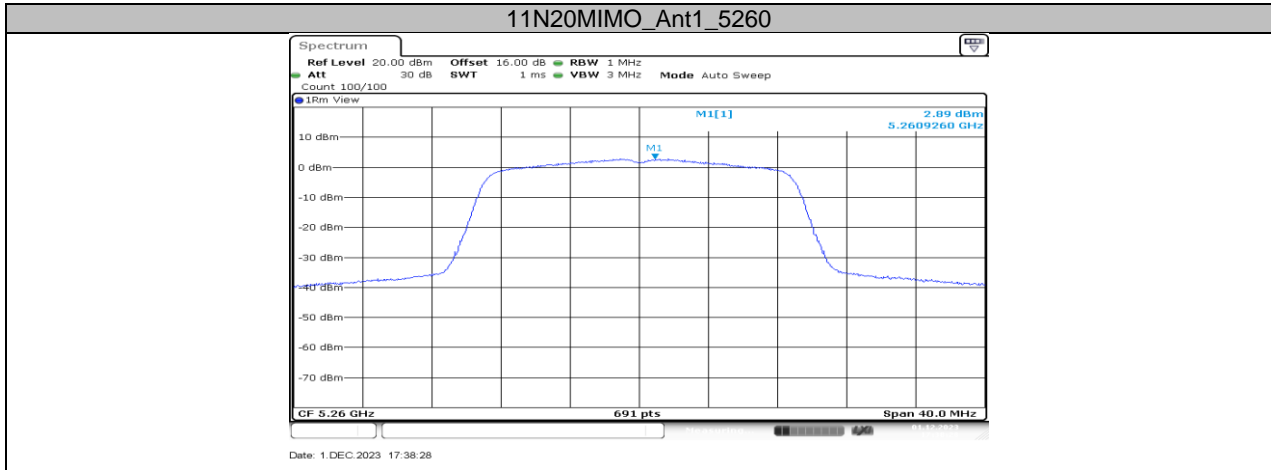
11A_Ant1_5825



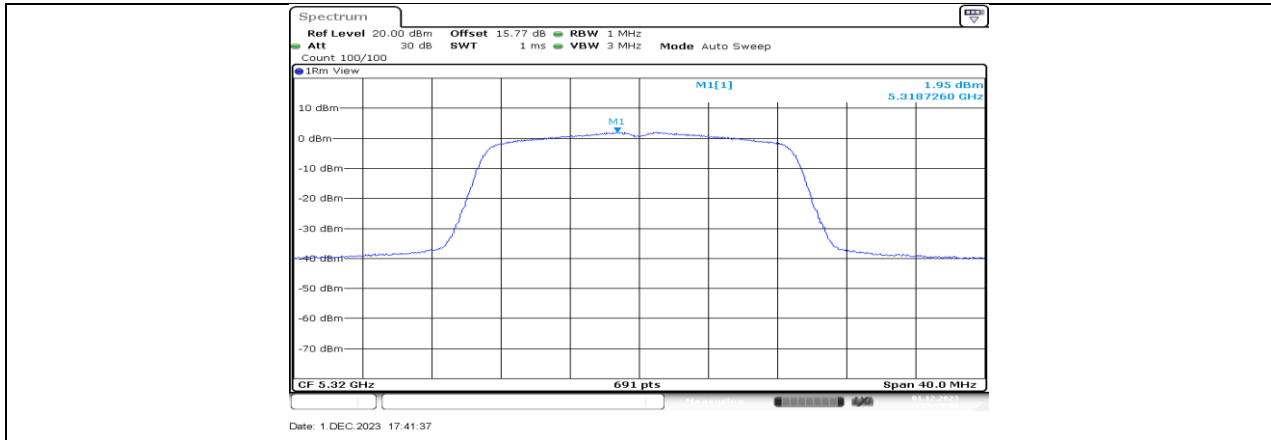


11N20MIMO_Ant1_5200

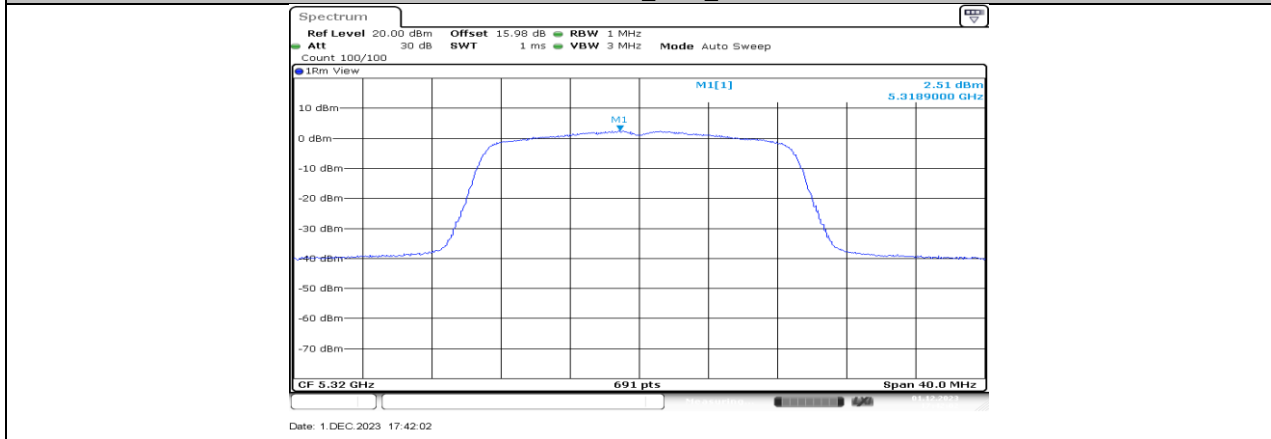




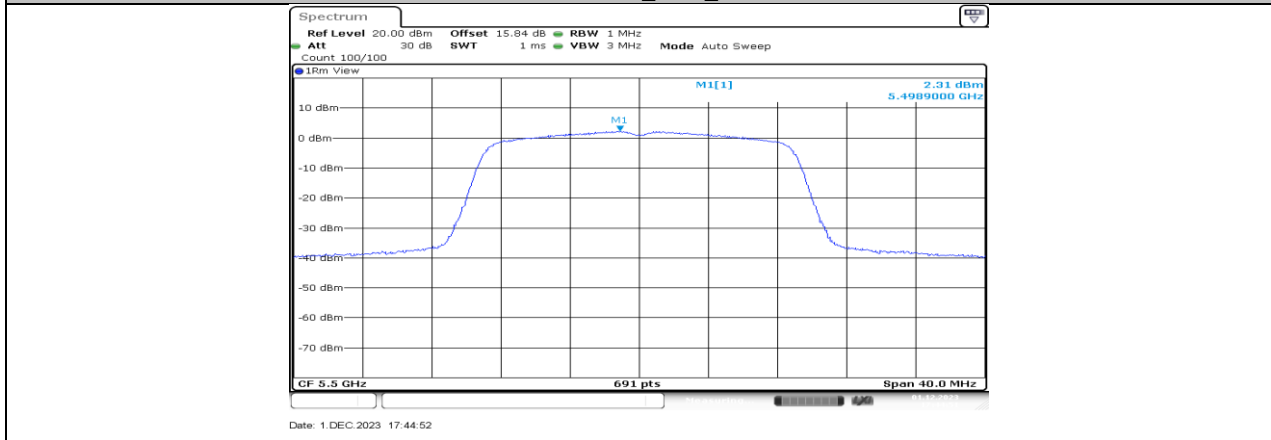
11N20MIMO_Ant2_5280



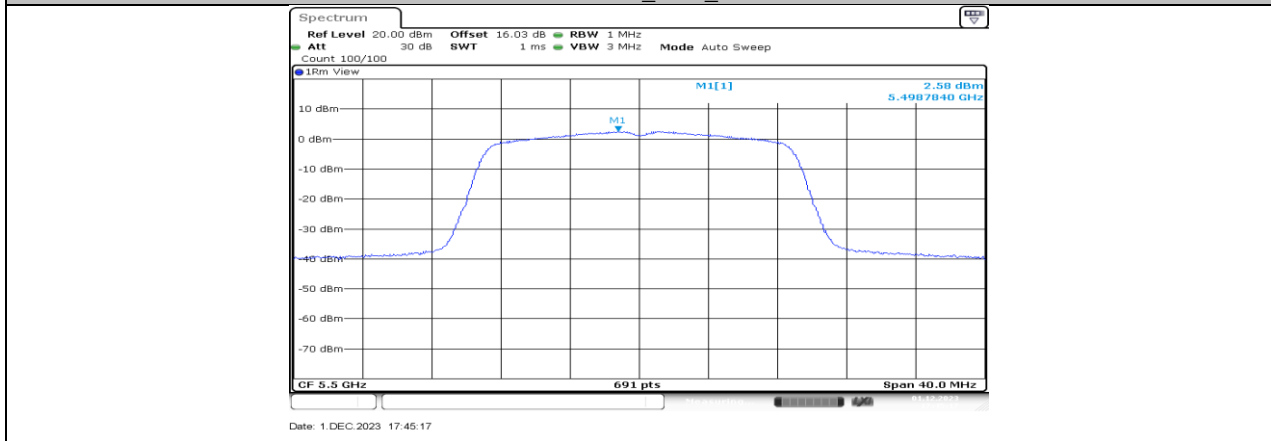
11N20MIMO_Ant1_5320

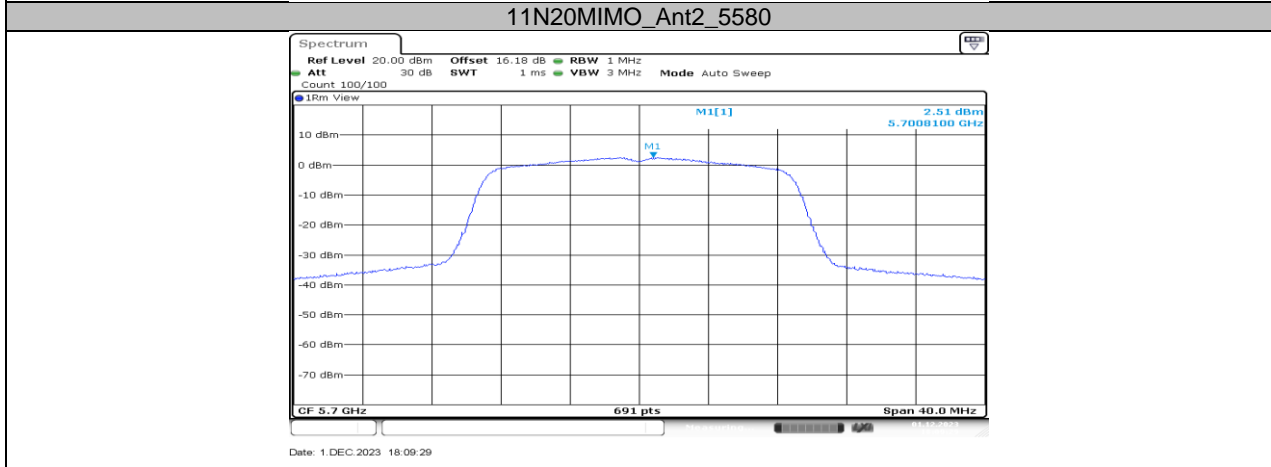
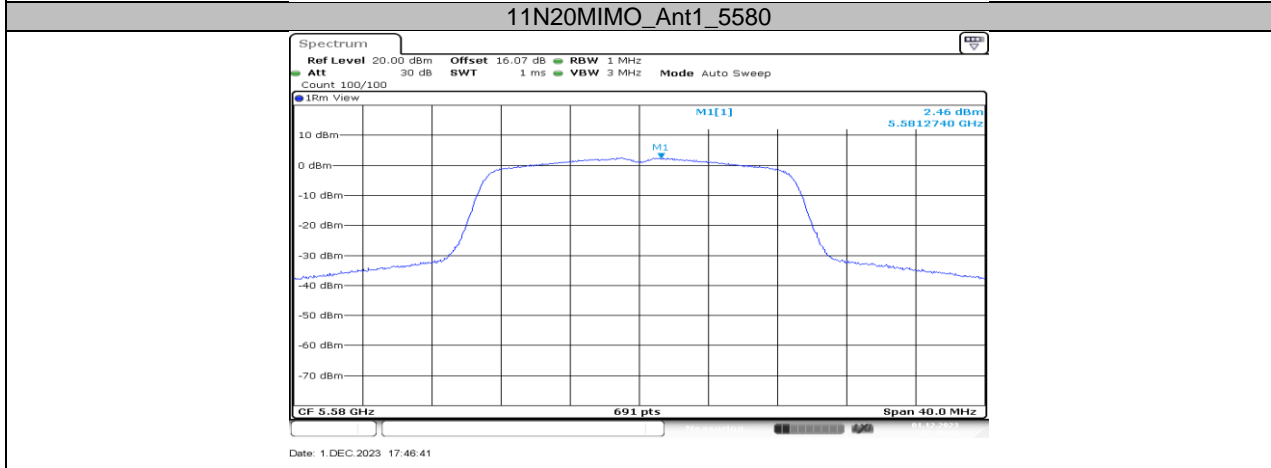
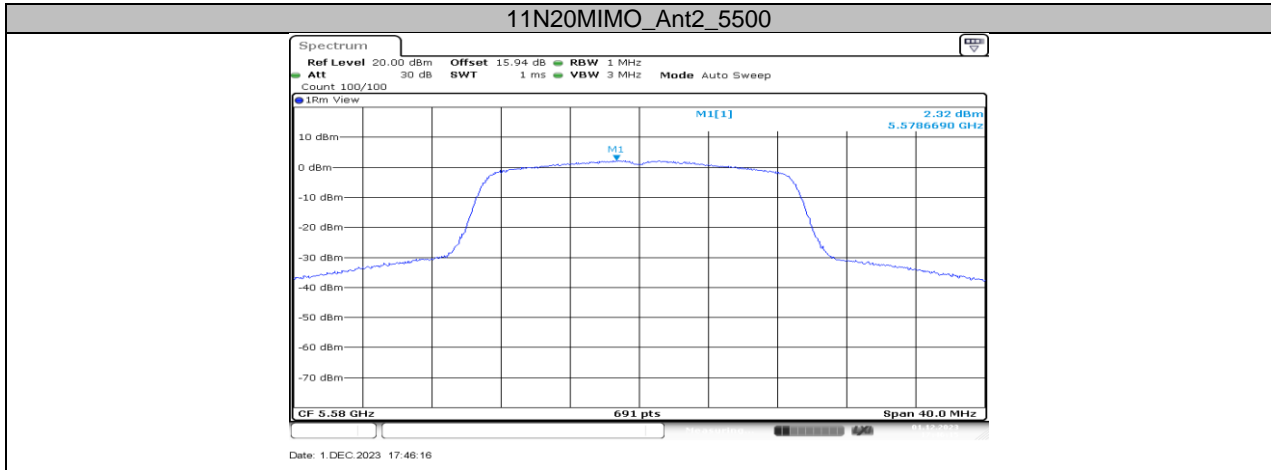


11N20MIMO_Ant2_5320

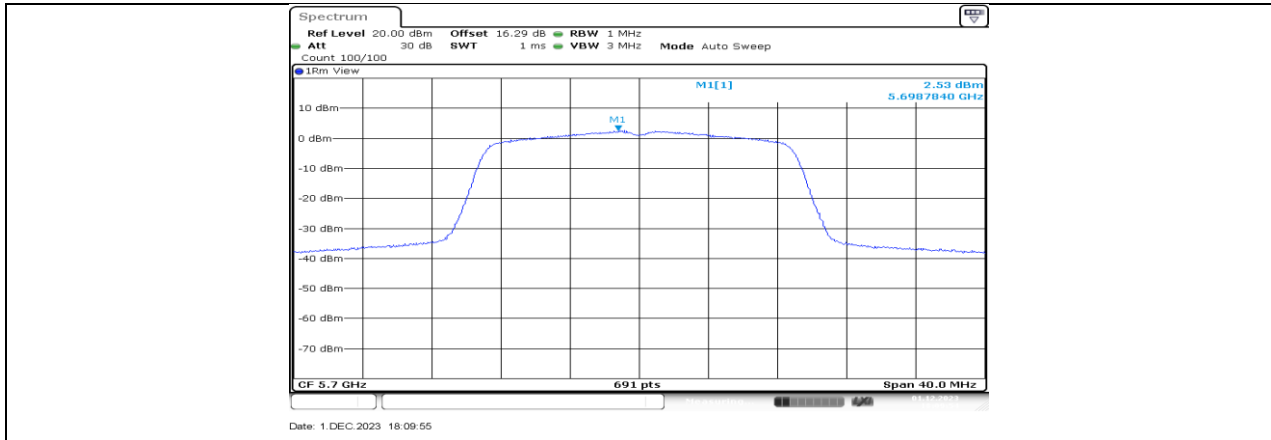


11N20MIMO_Ant1_5500

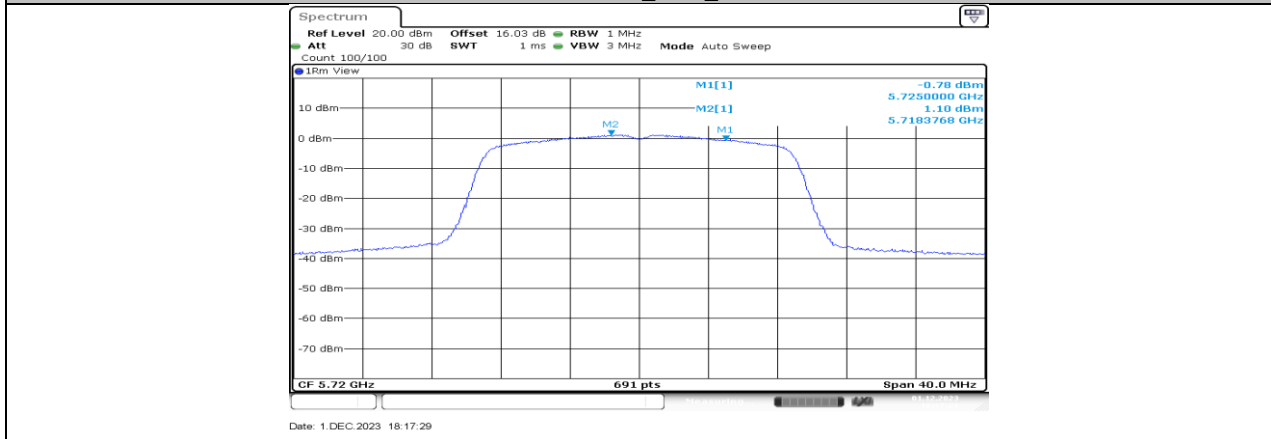




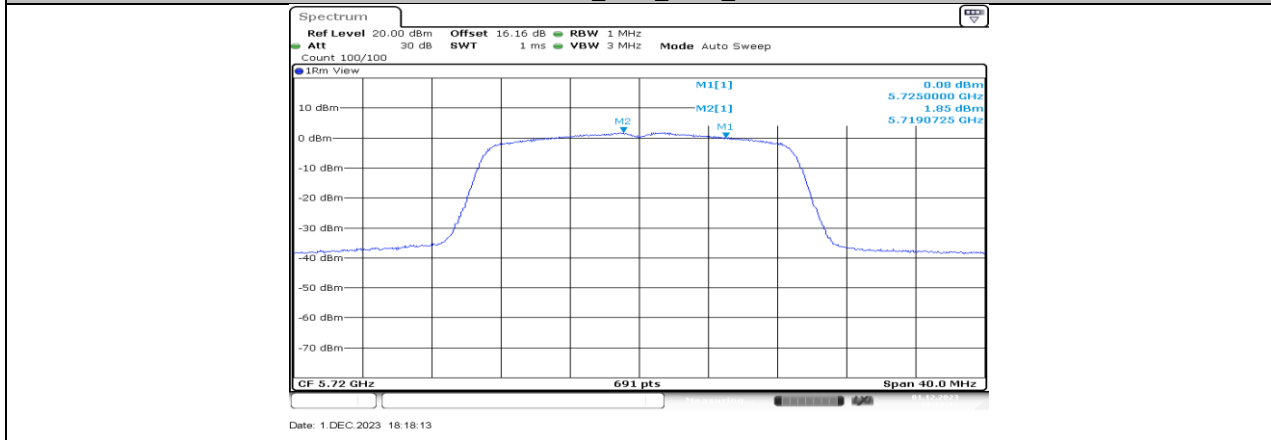
11N20MIMO_Ant1_5700



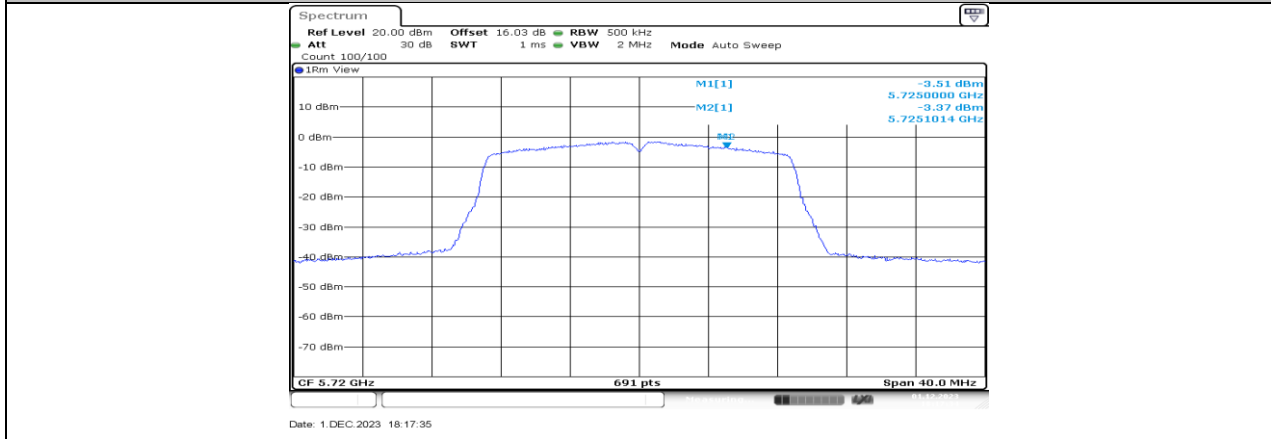
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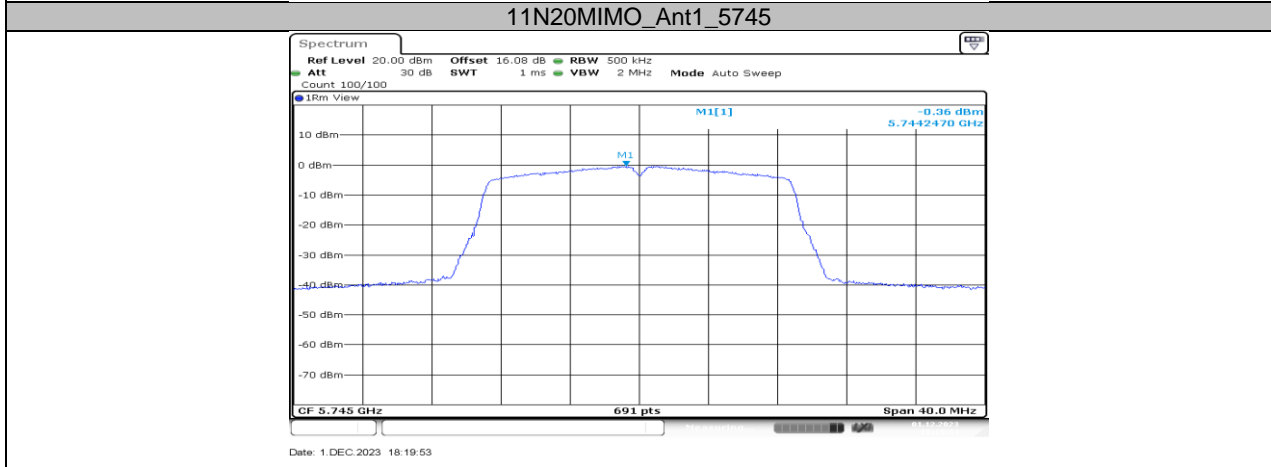
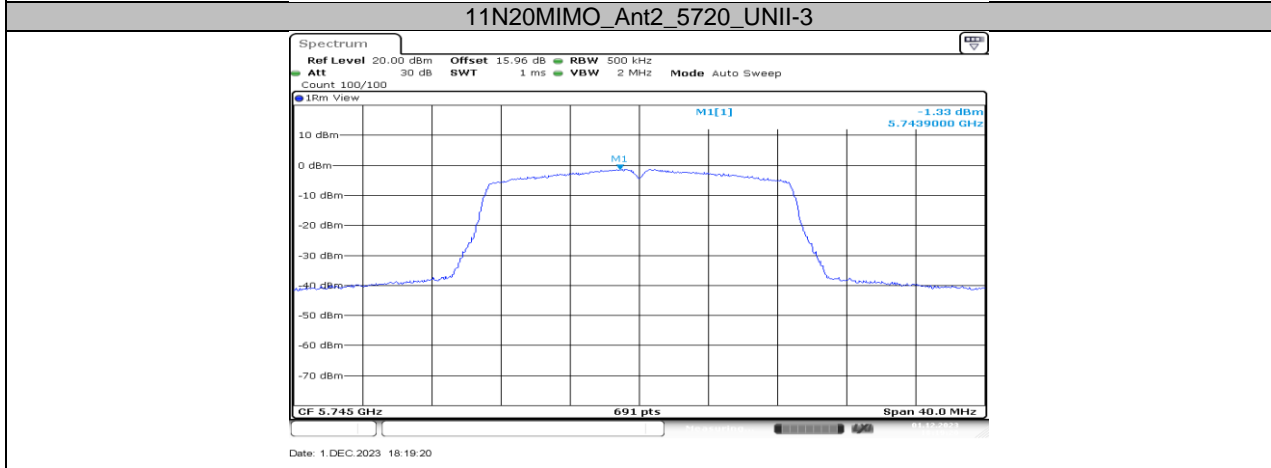
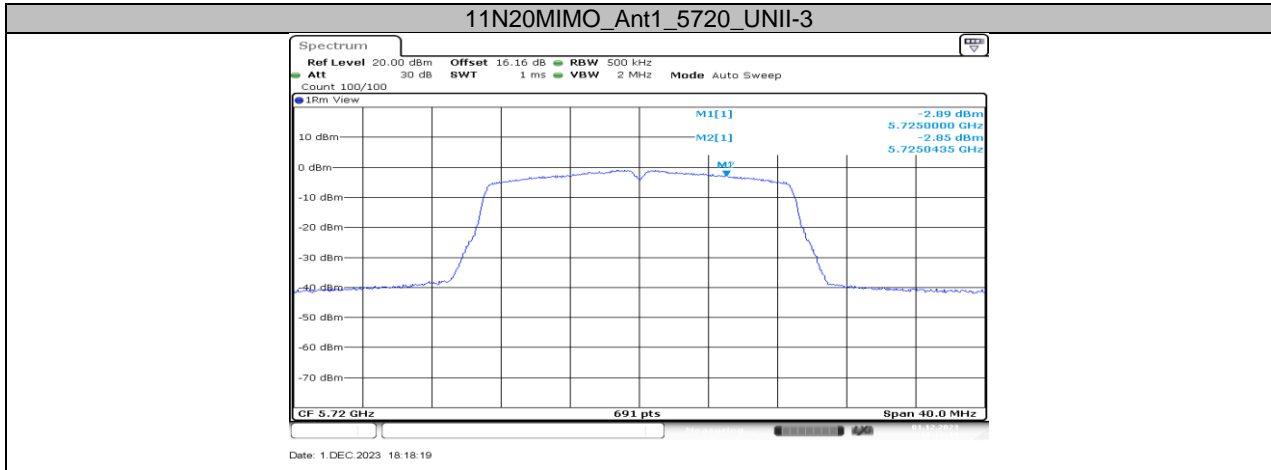


11N20MIMO_Ant1_5720_UNII-2C

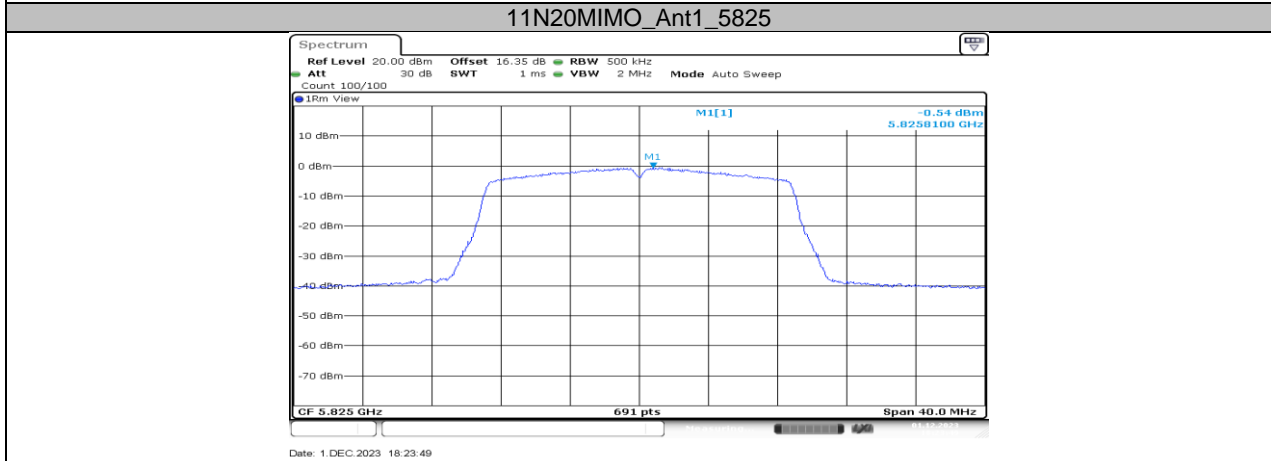
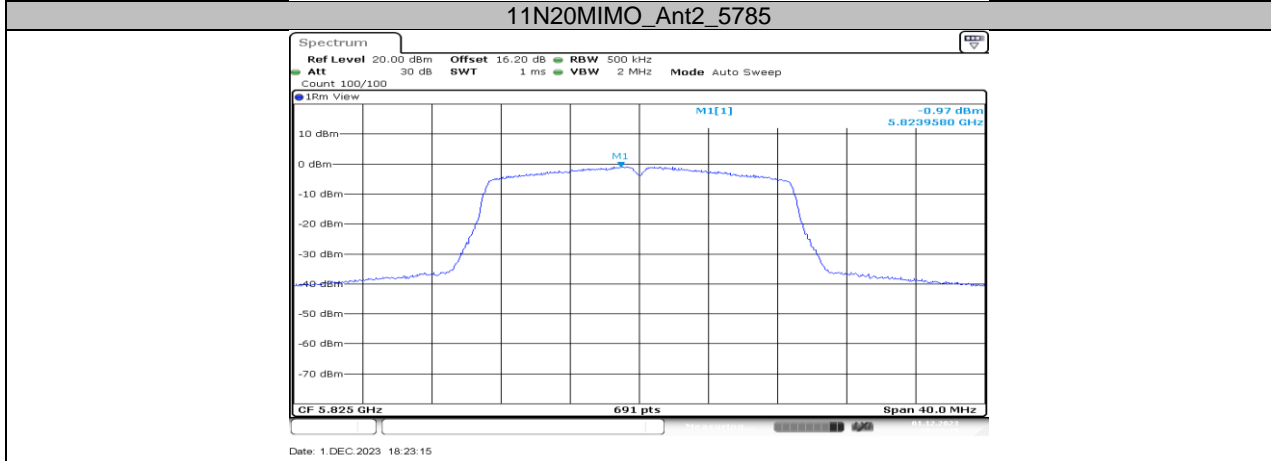
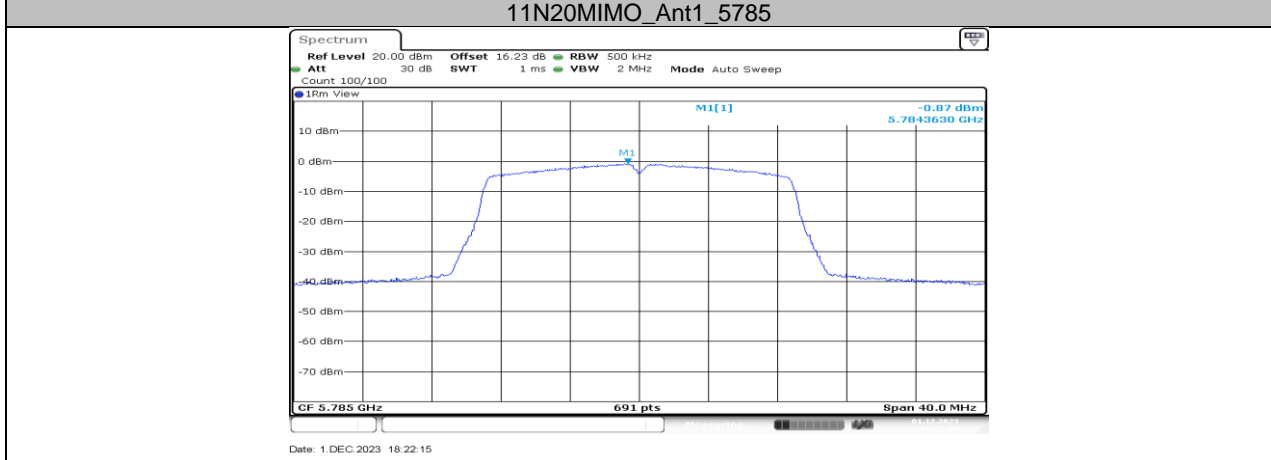
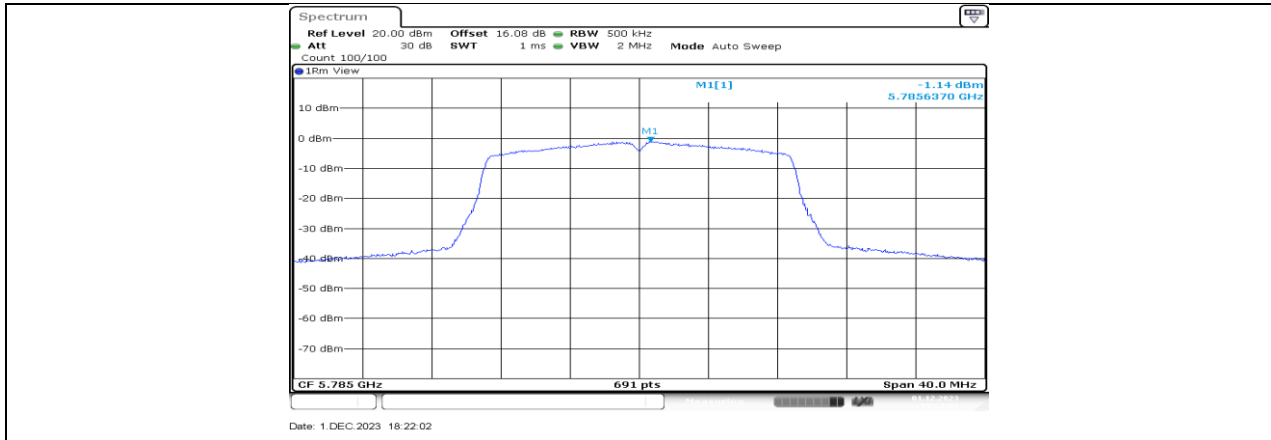


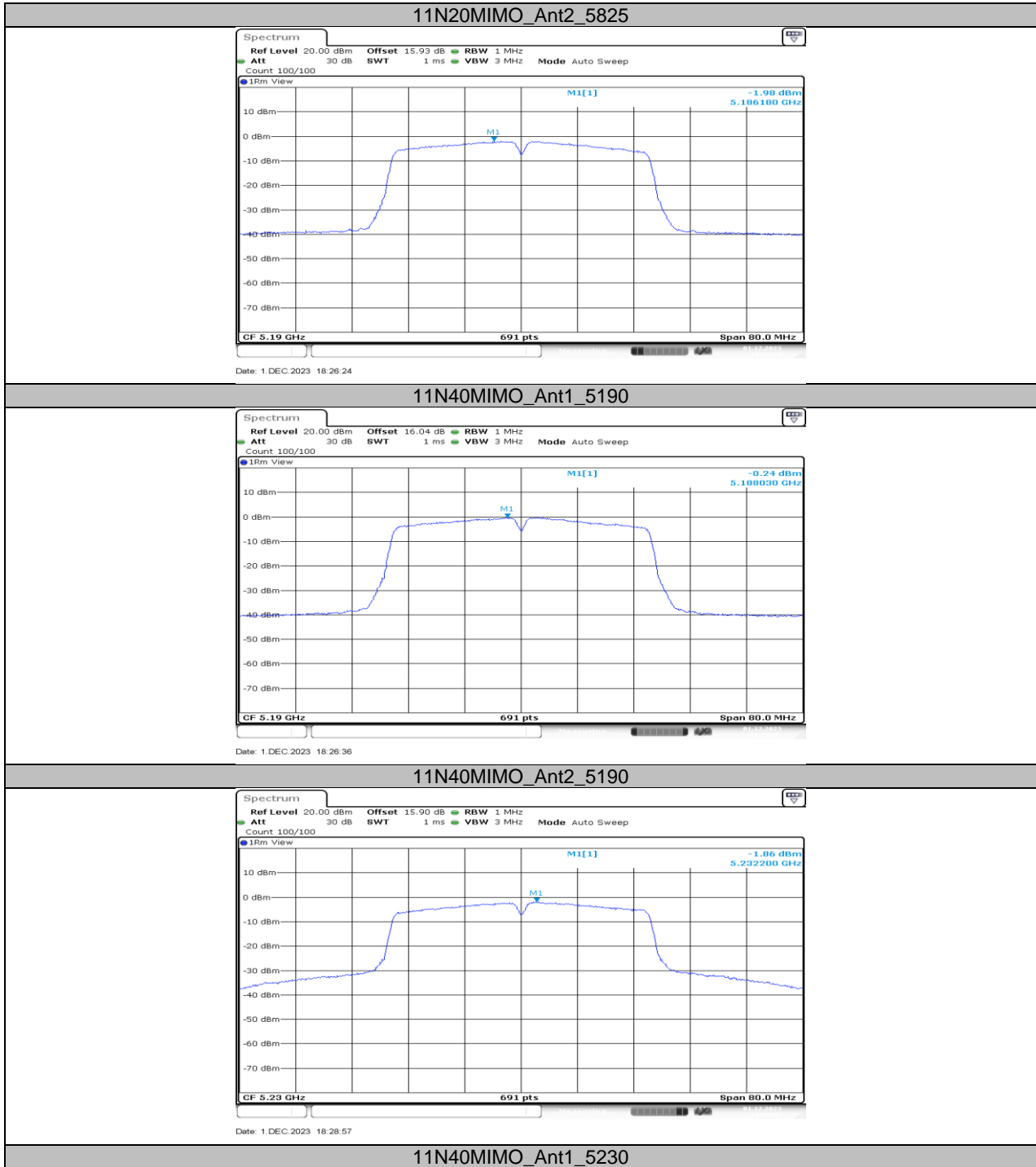
11N20MIMO_Ant2_5720_UNII-2C

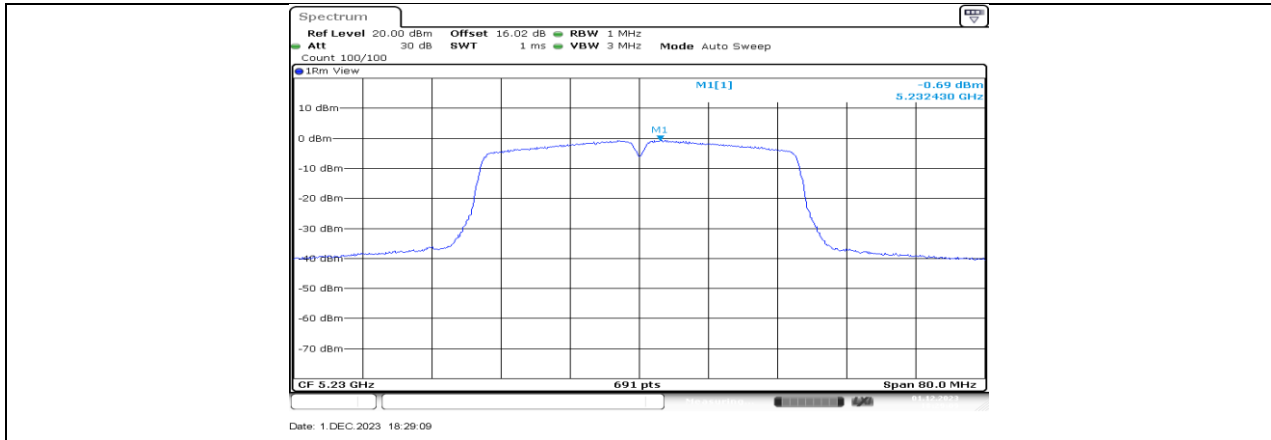




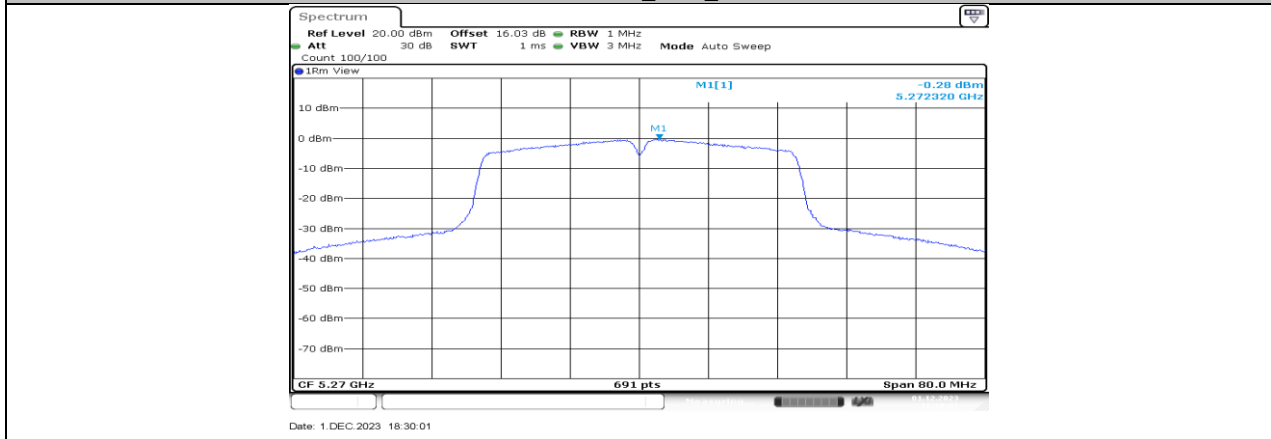
11N20MIMO_Ant2_5745



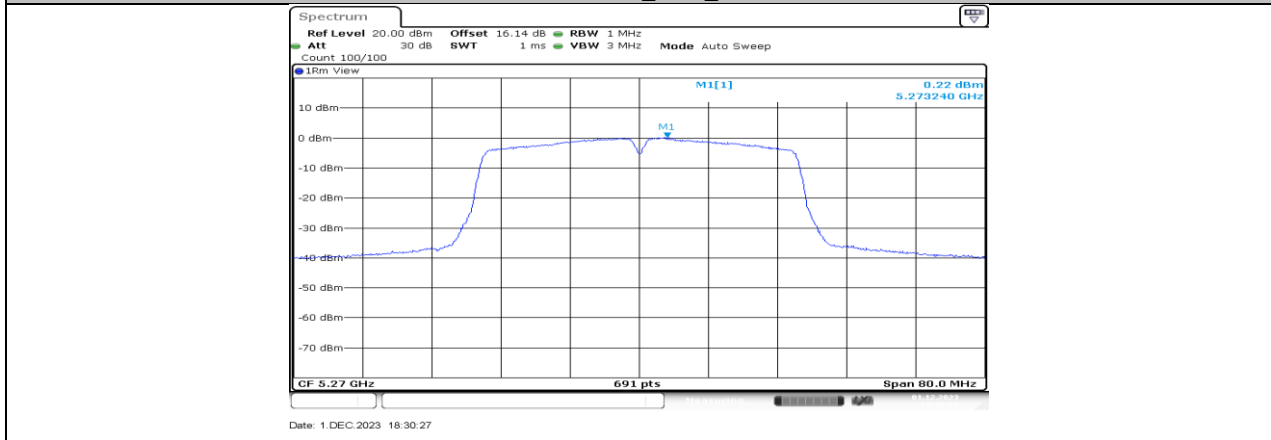




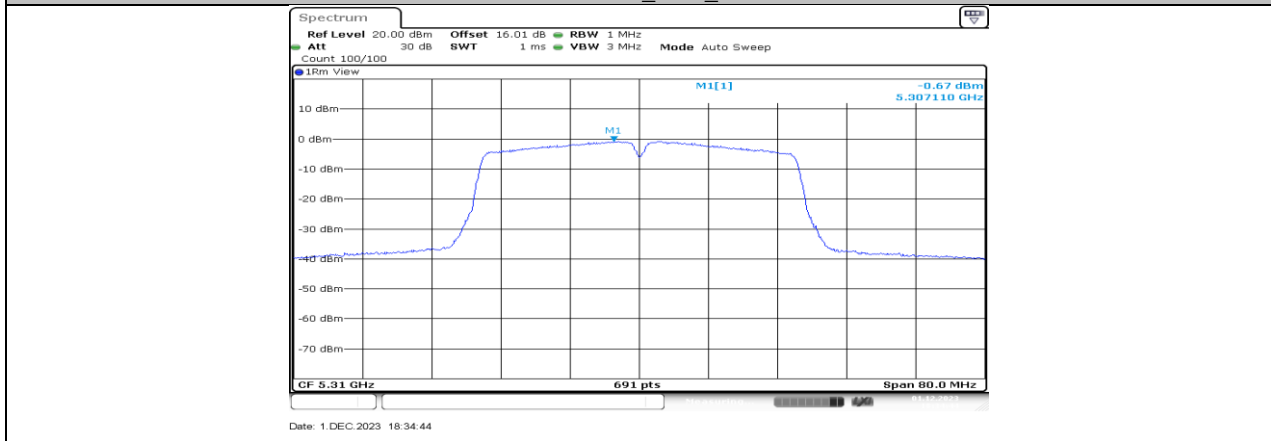
11N40MIMO_Ant2_5230

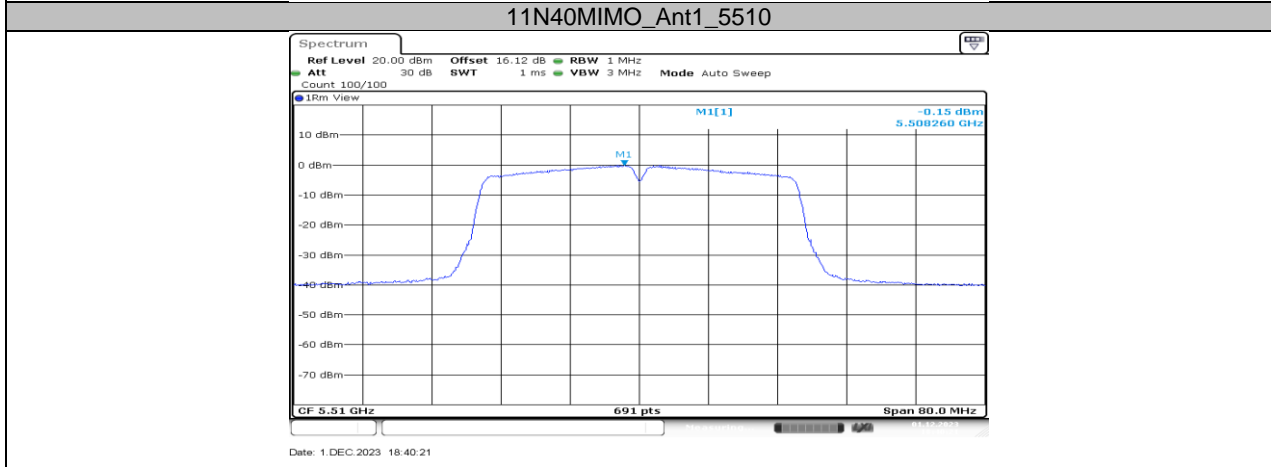
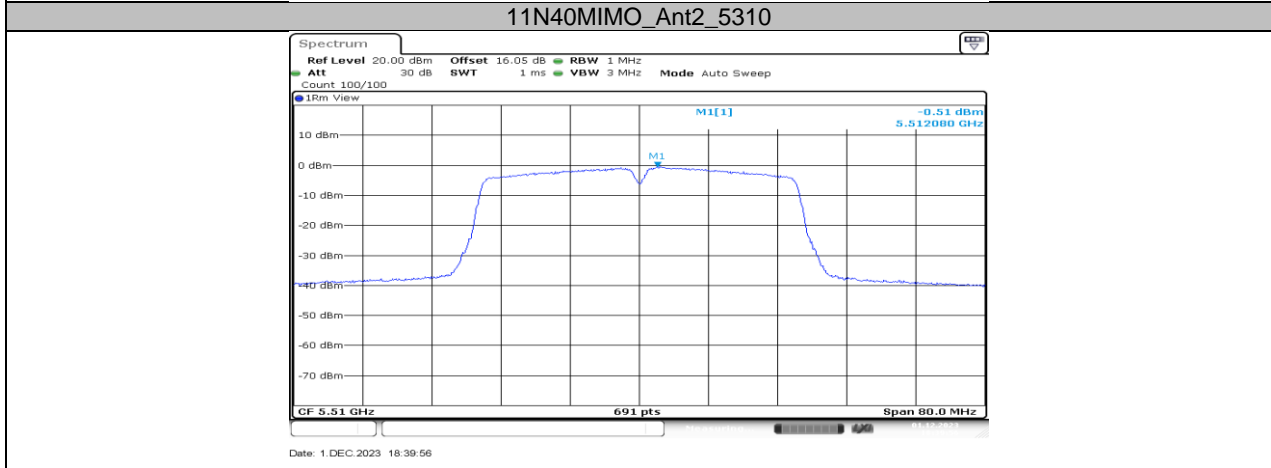
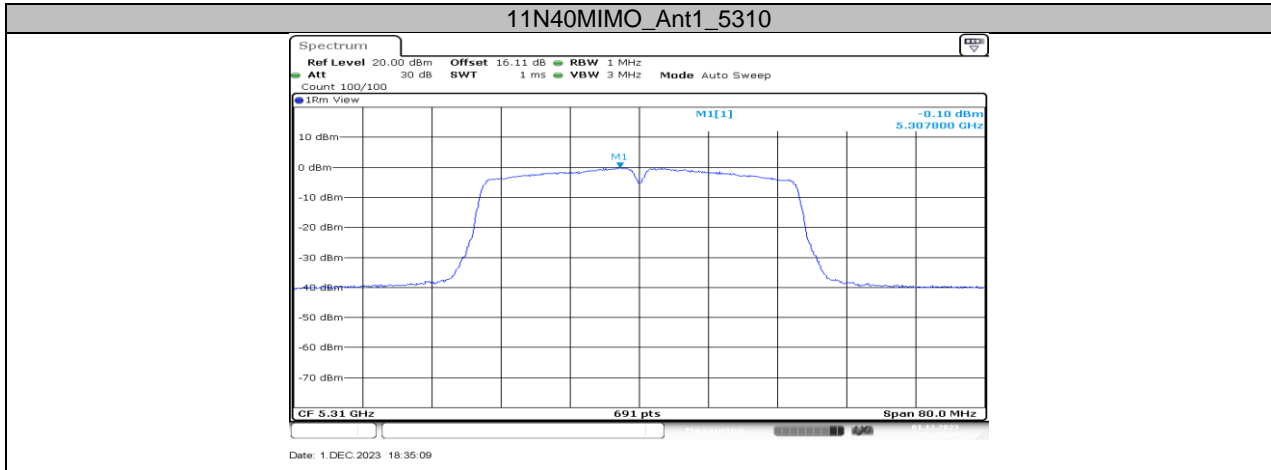


11N40MIMO_Ant1_5270

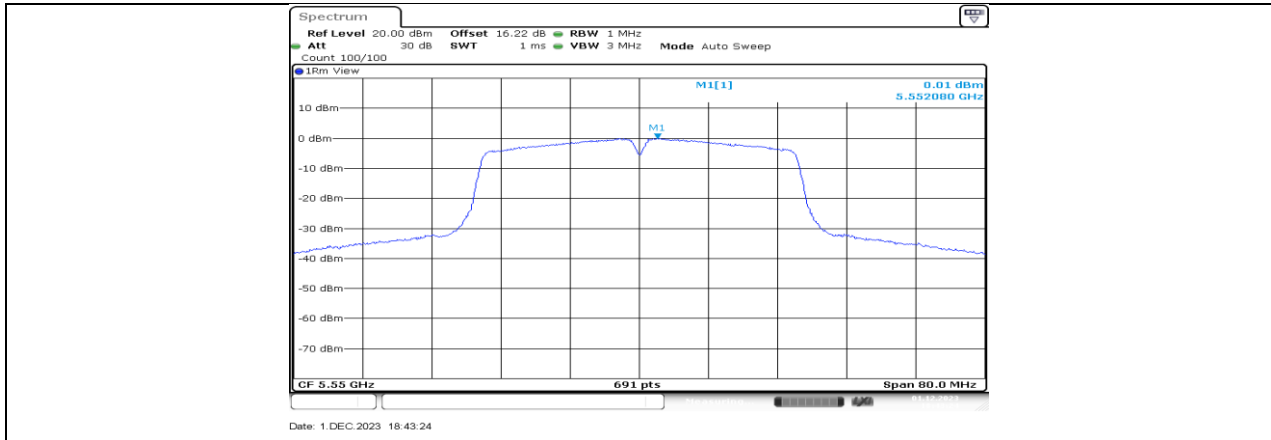


11N40MIMO_Ant2_5270

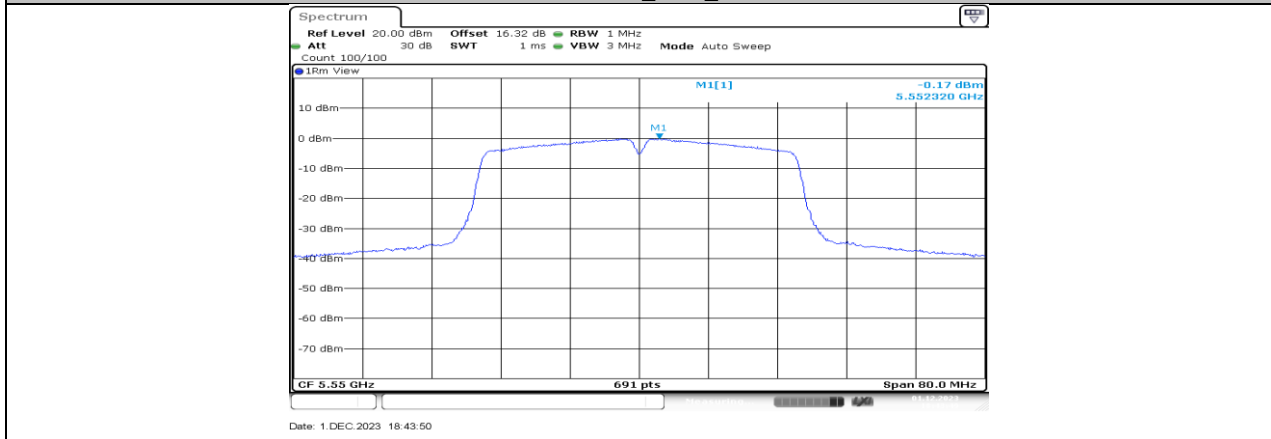




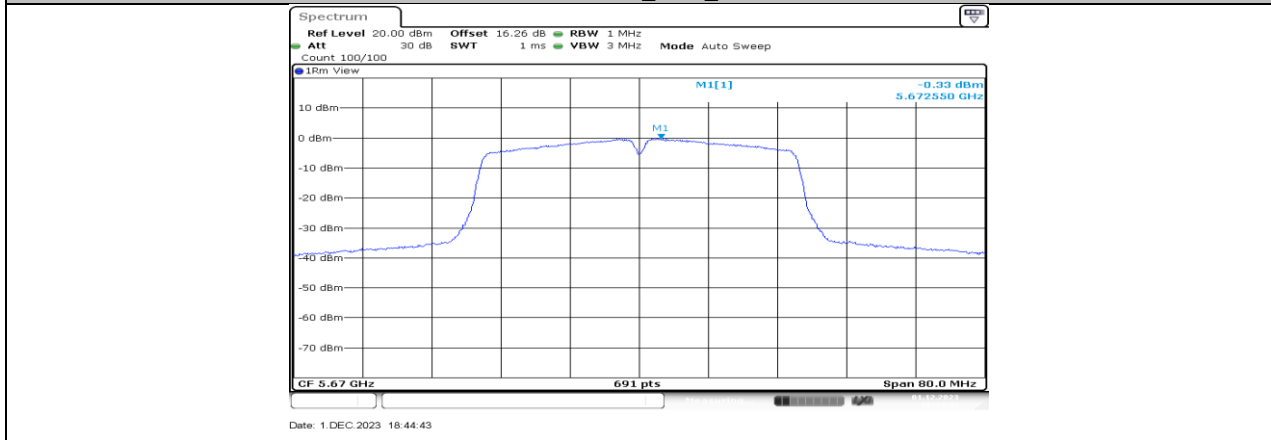
11N40MIMO_Ant2_5510



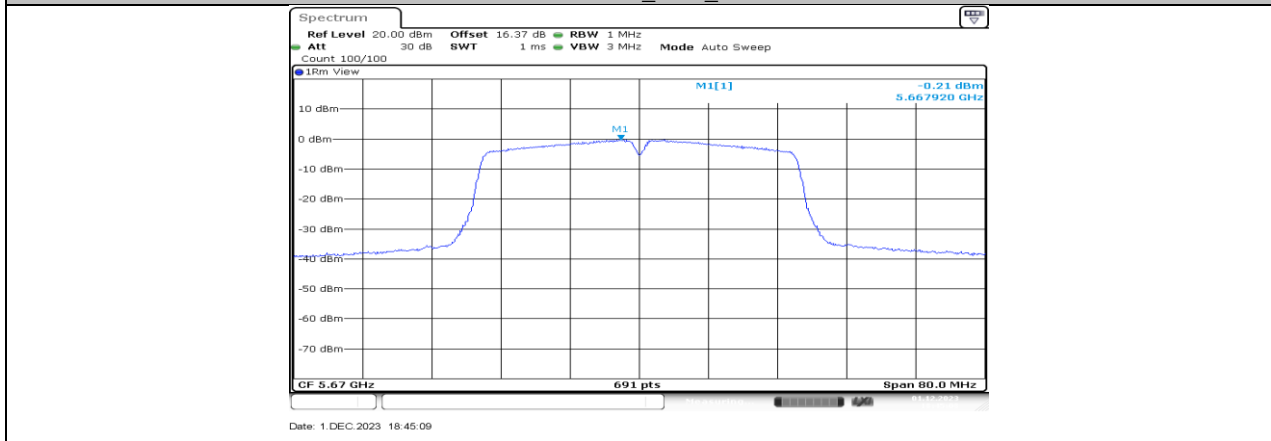
11N40MIMO_Ant1_5550

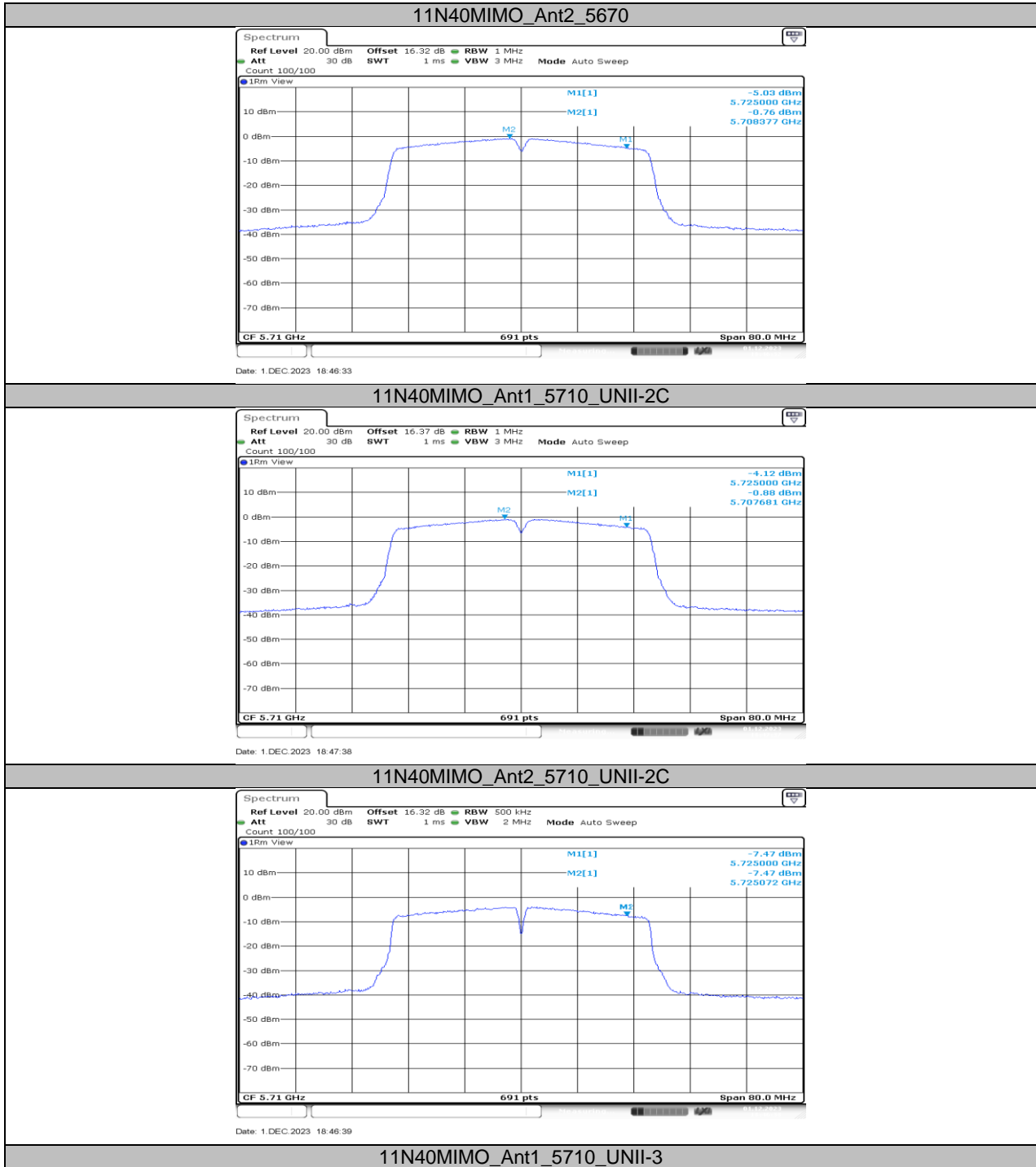


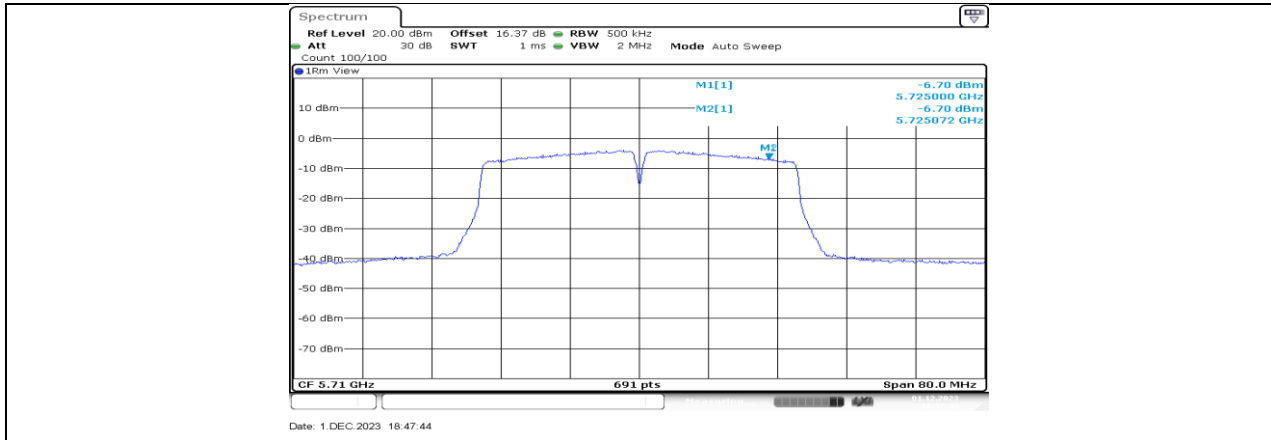
11N40MIMO_Ant2_5550



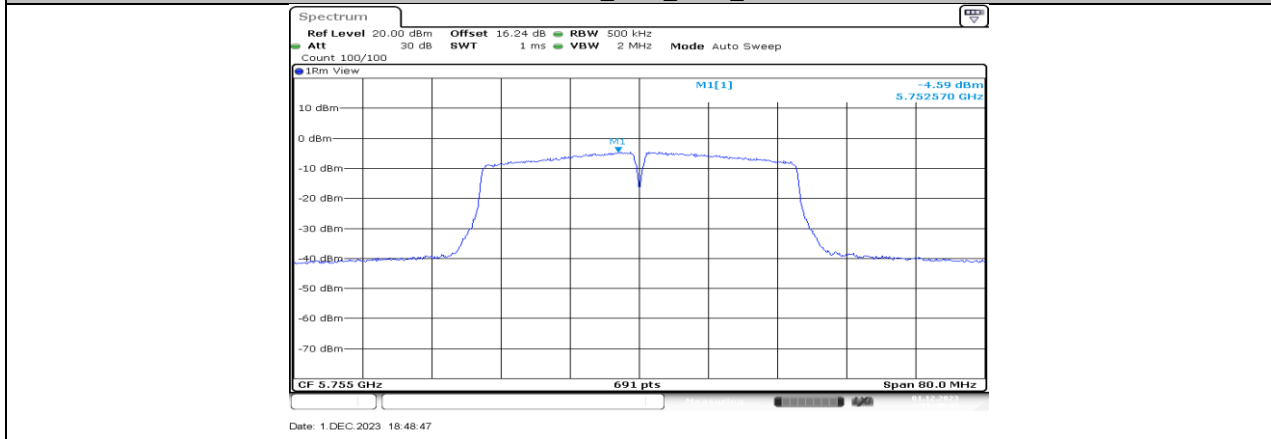
11N40MIMO_Ant1_5670



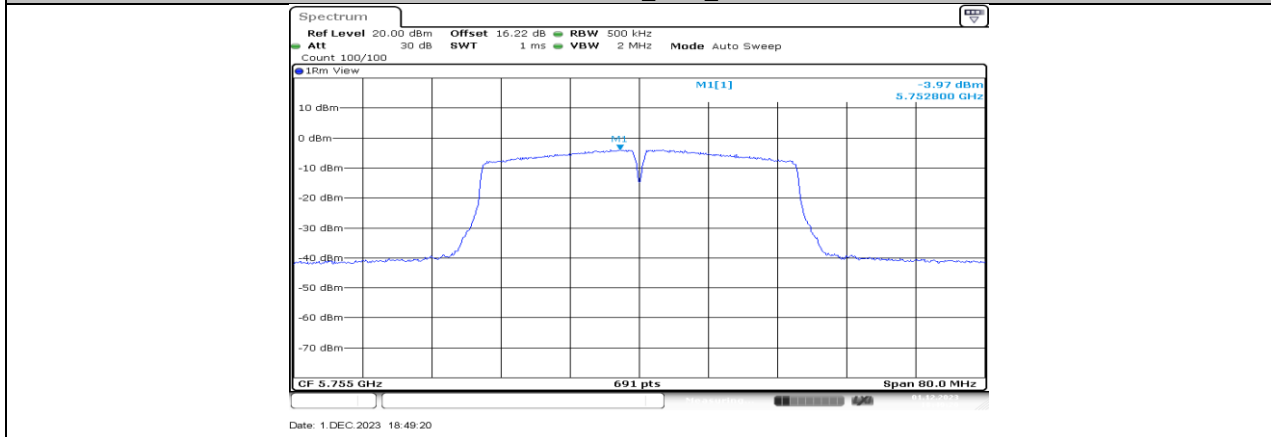




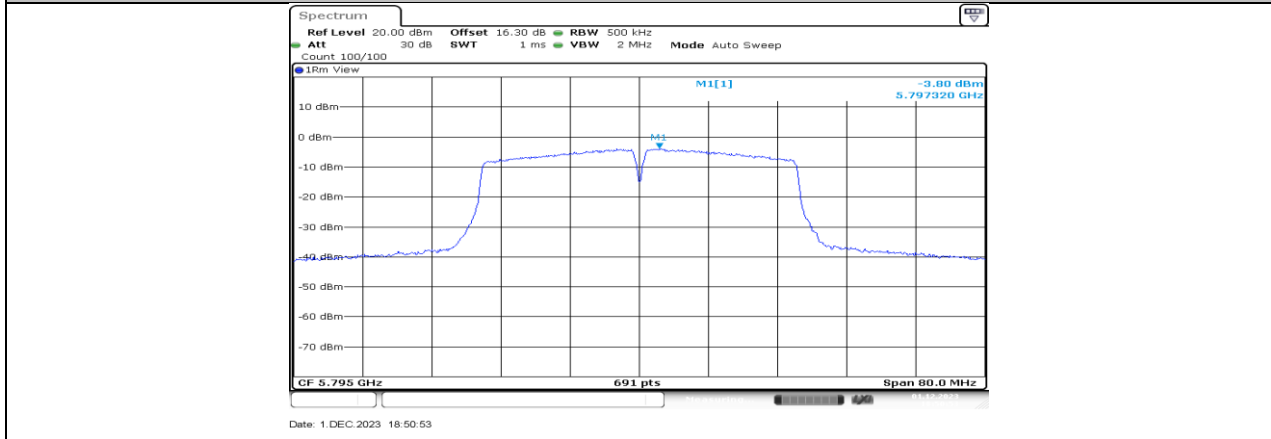
11N40MIMO_Ant2_5710_UNII-3

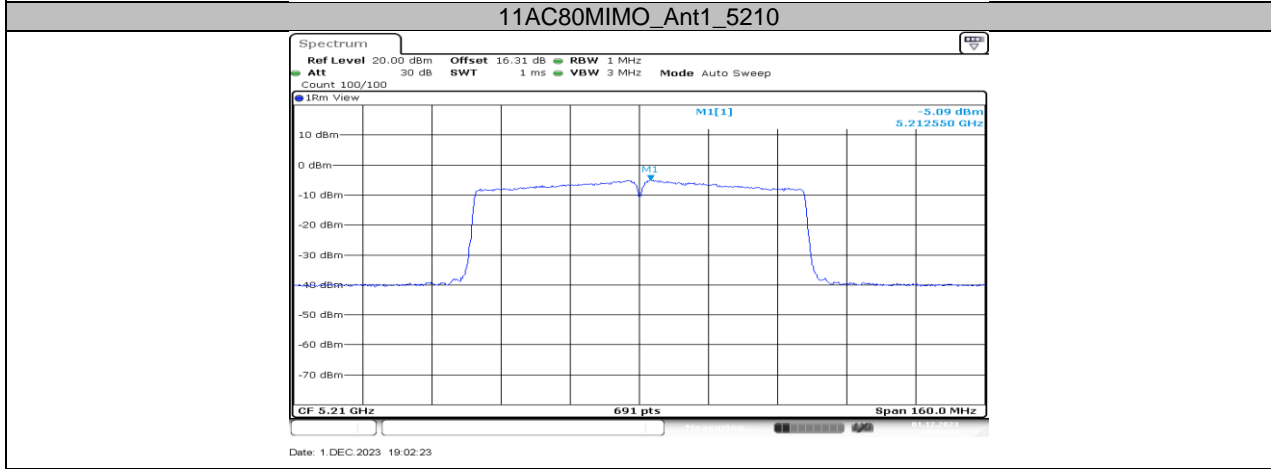
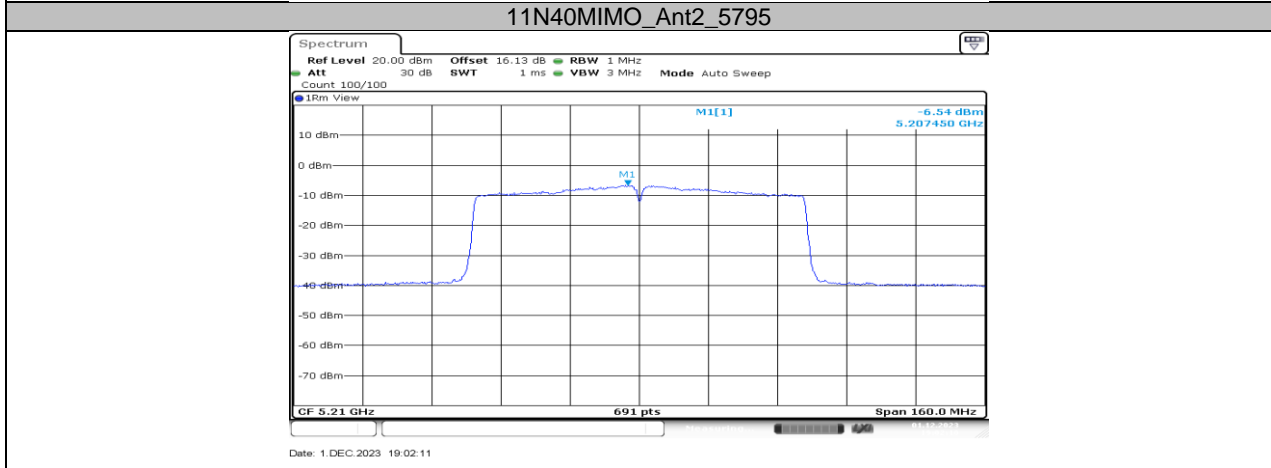
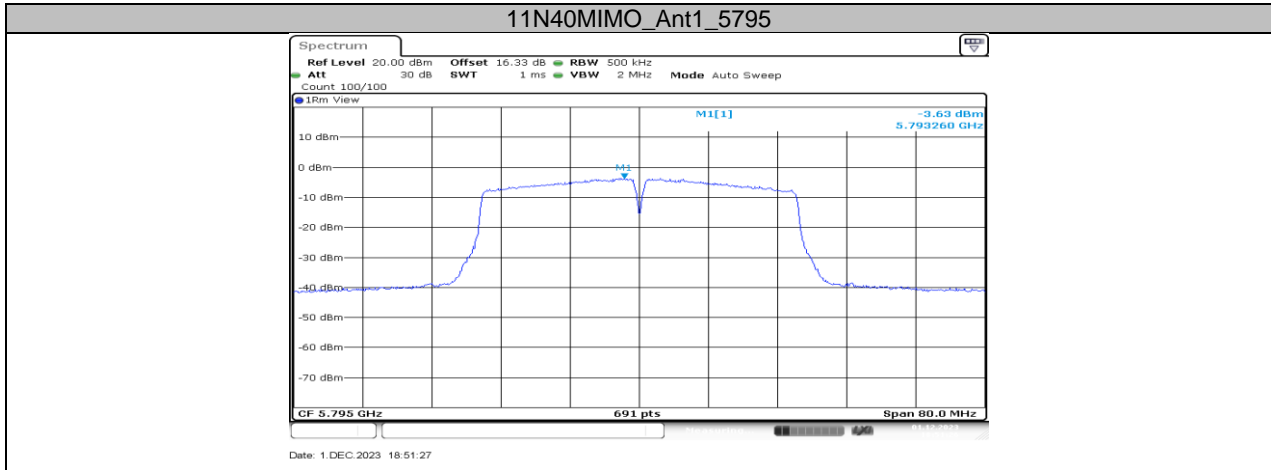


11N40MIMO_Ant1_5755

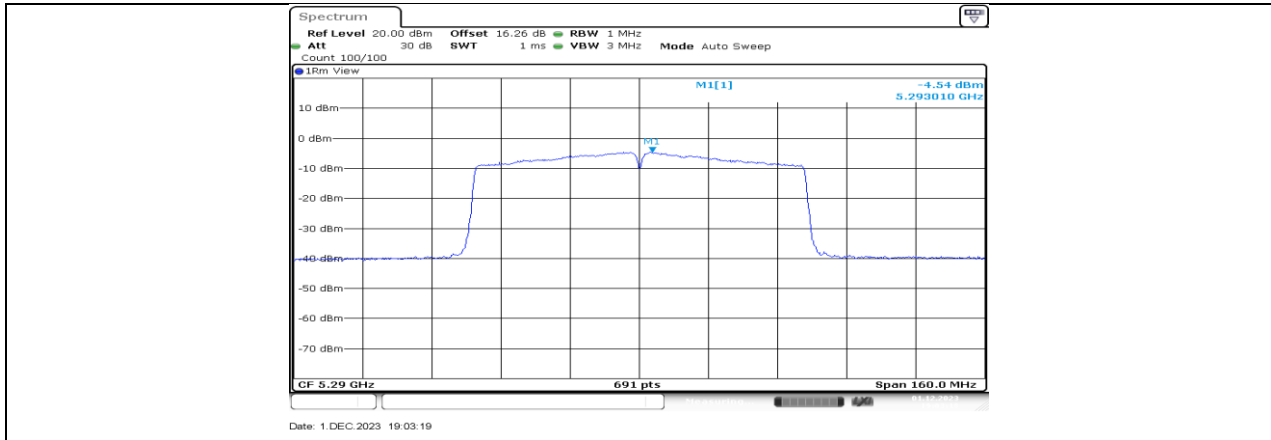


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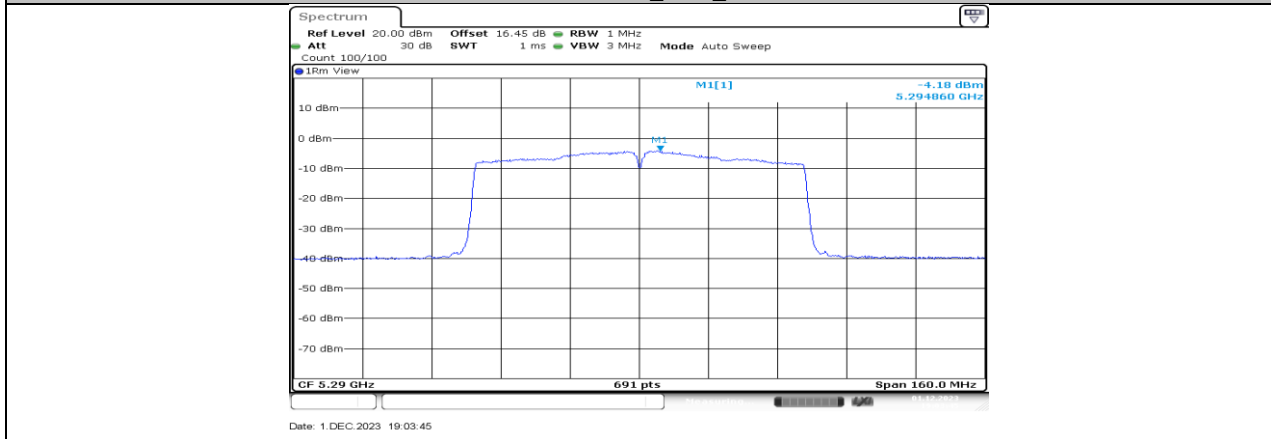




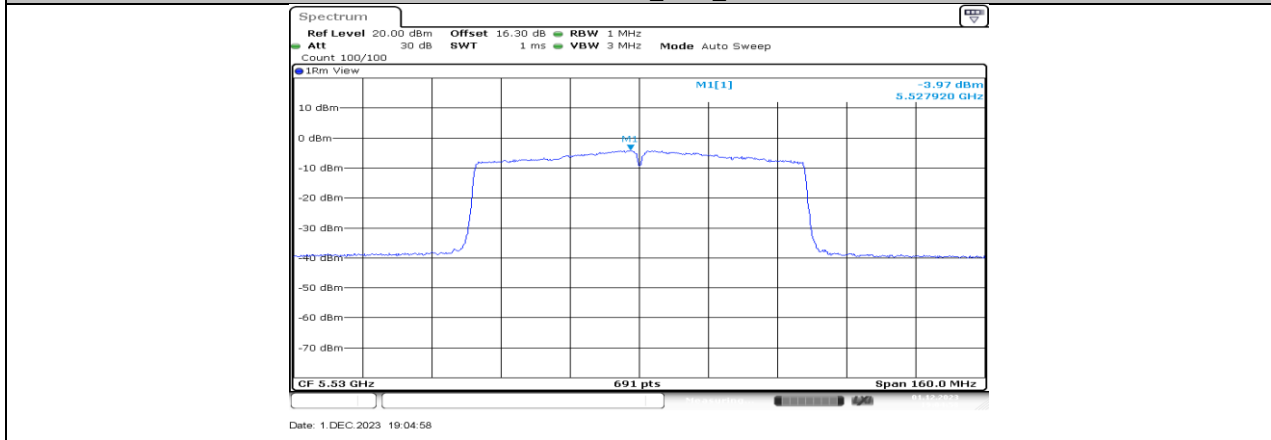
11AC80MIMO_Ant2_5210



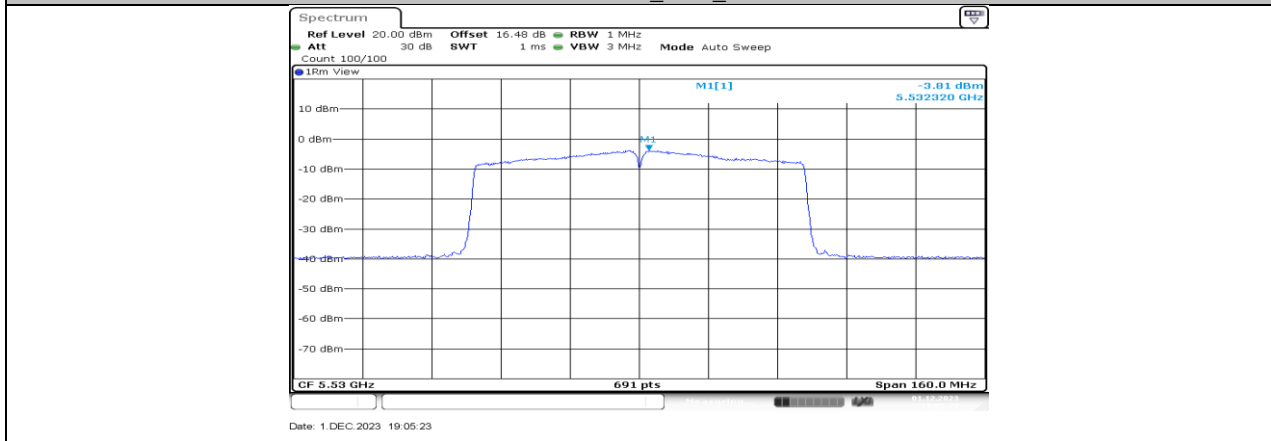
11AC80MIMO_Ant1_5290

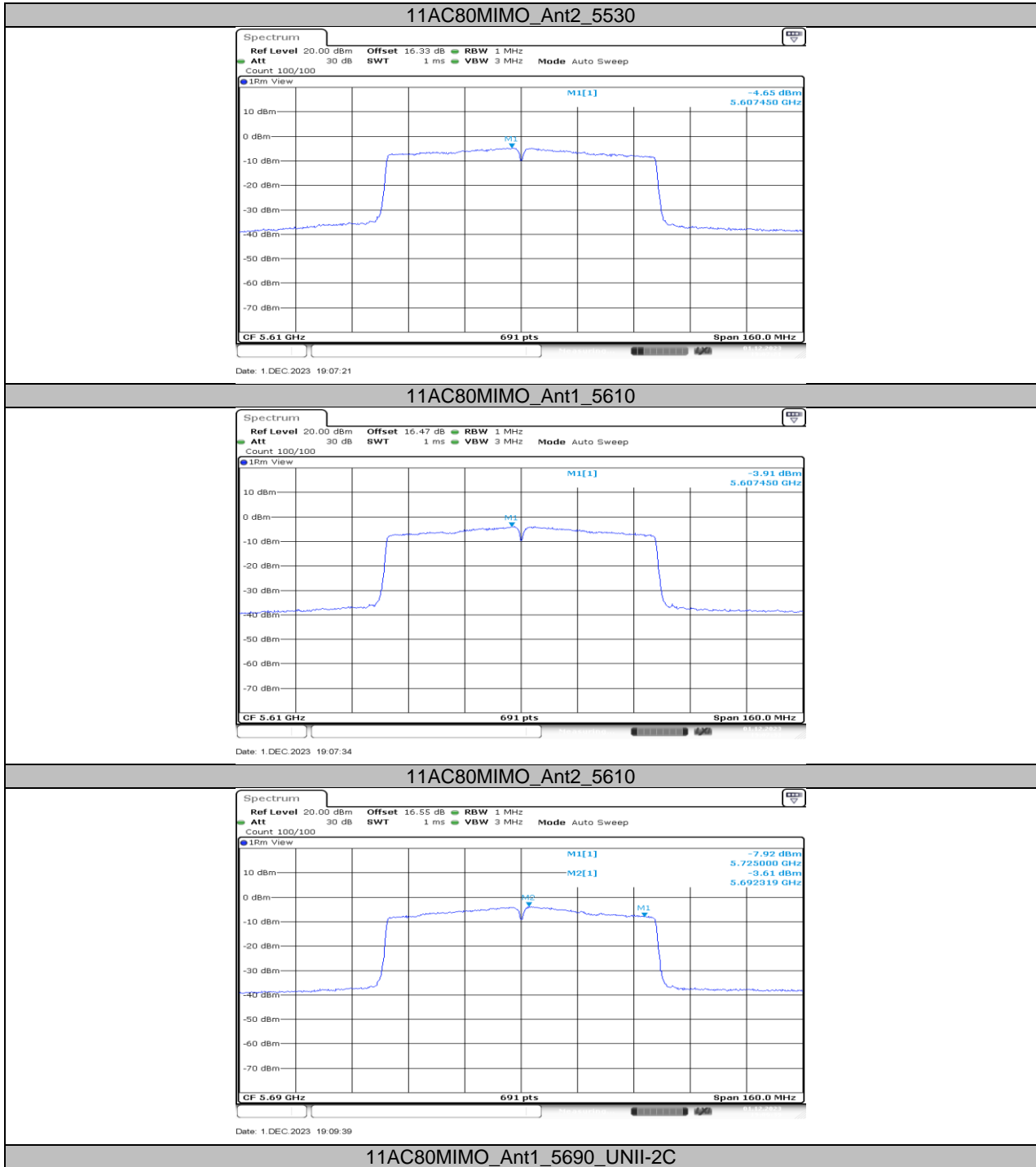


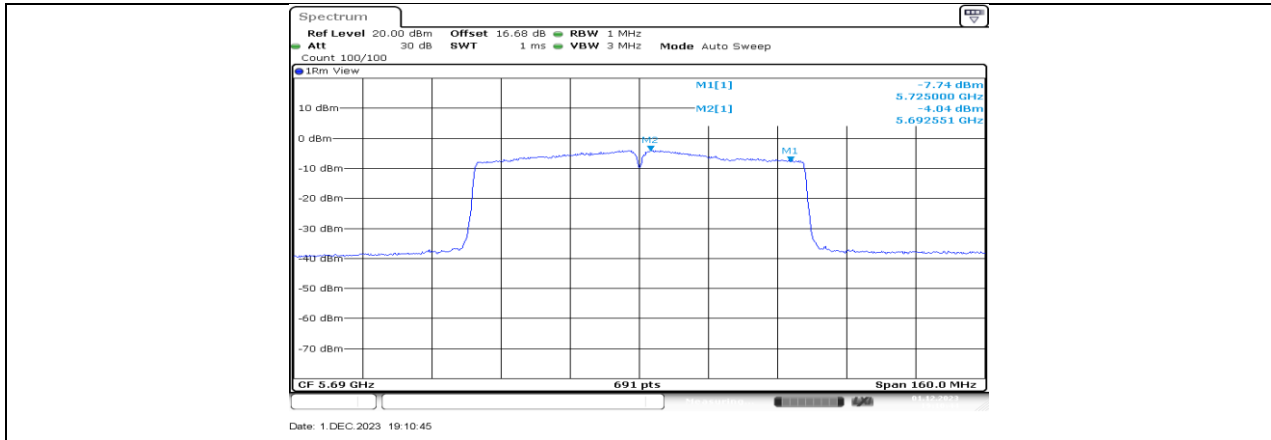
11AC80MIMO_Ant2_5290



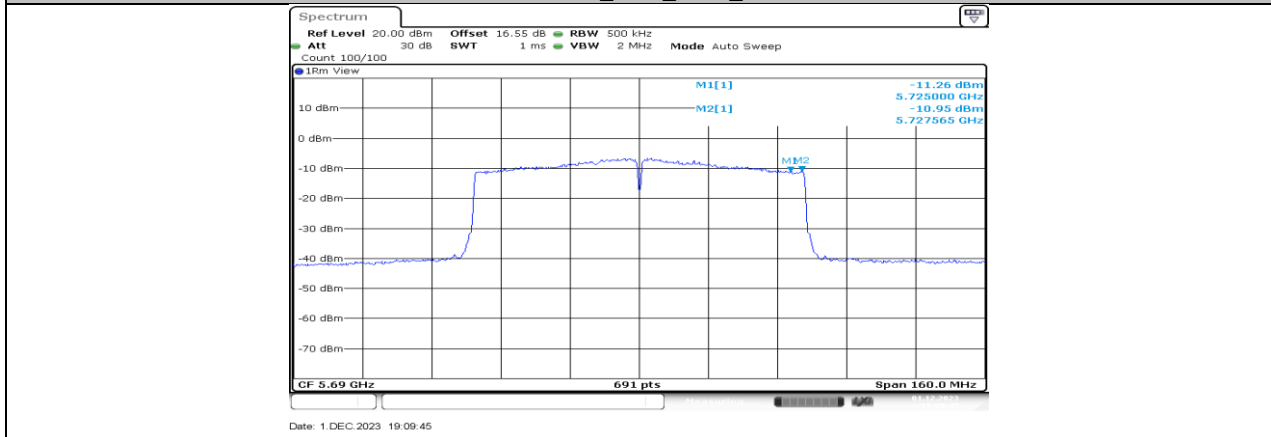
11AC80MIMO_Ant1_5530



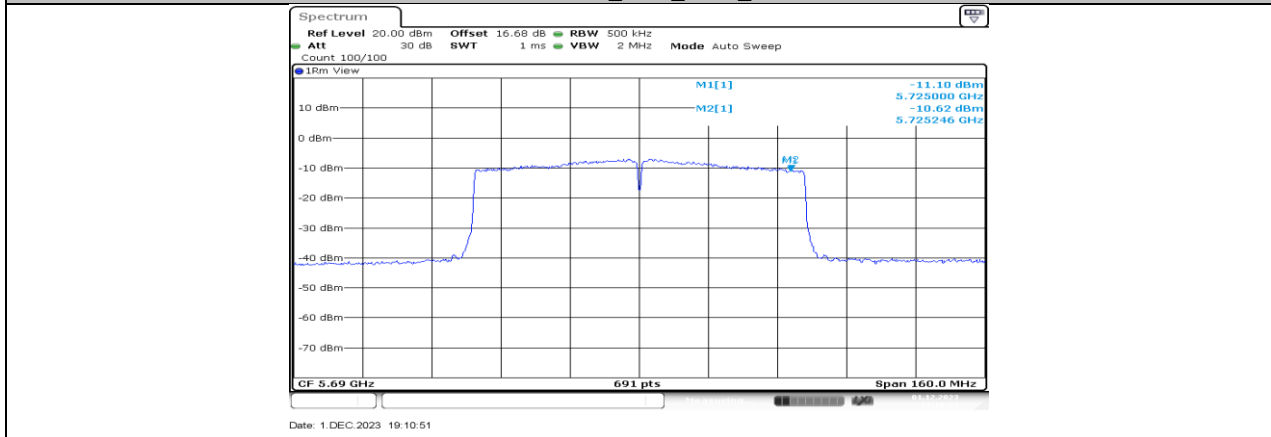




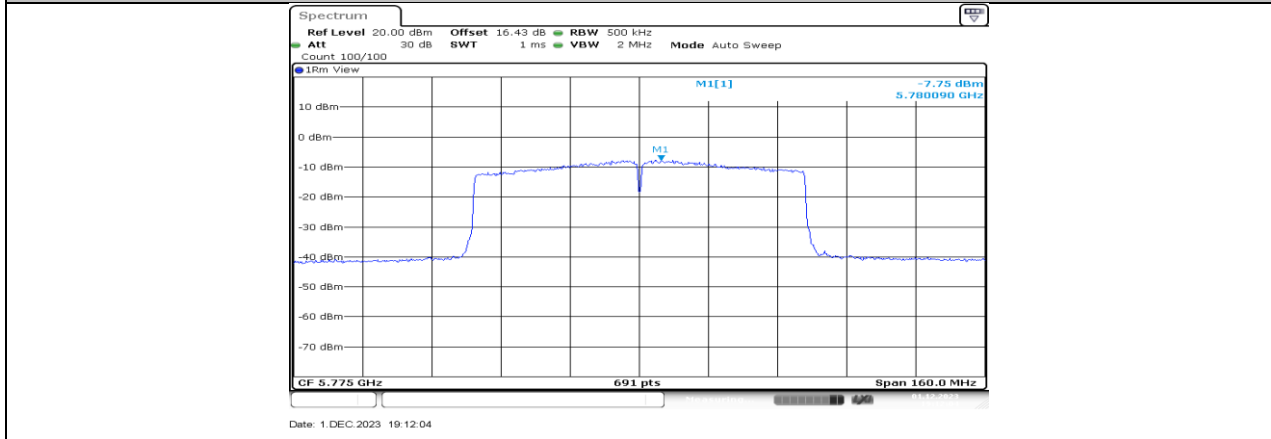
11AC80MIMO_Ant2_5690_UNII-2C

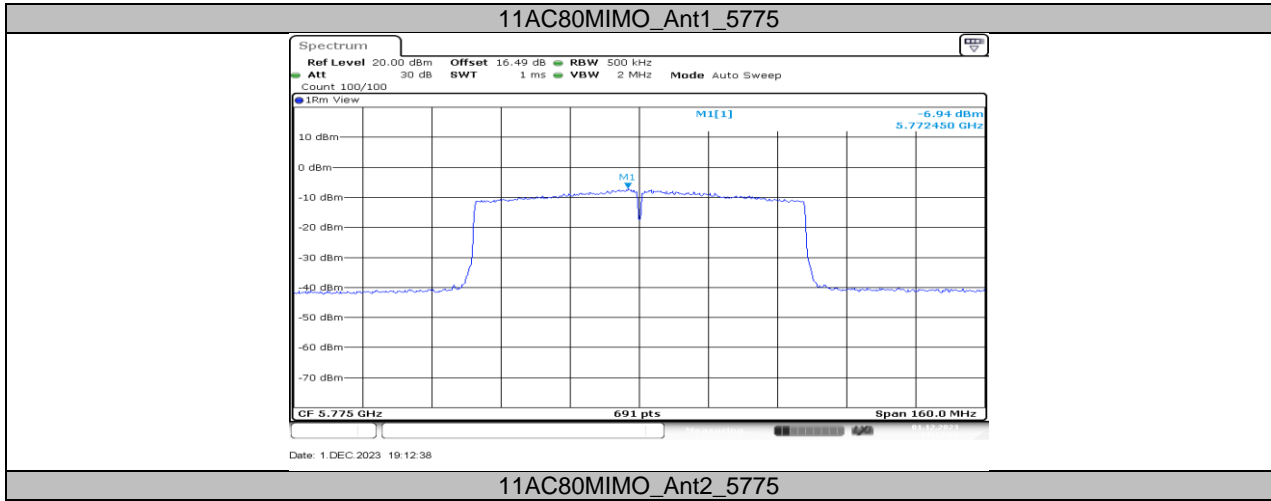


11AC80MIMO_Ant1_5690_UNII-3



11AC80MIMO_Ant2_5690_UNII-3





11.6. APPENDIX F: FREQUENCY STABILITY

11.6.1. Test Result

| Frequency Error vs. Voltage | | | | | | | | | |
|---------------------------------|-------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|
| 802.11a:5180MHz | | | | | | | | | |
| Temp. | Volt. | 0 Minute | | 2 Minute | | 5 Minute | | 10 Minute | |
| | | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) |
| TN | VL | 5180.0011 | 0.21 | 5180.0130 | 2.50 | 5180.0066 | 1.27 | 5179.9927 | -1.41 |
| TN | VN | 5179.9961 | -0.75 | 5179.9979 | -0.40 | 5179.9837 | -3.15 | 5179.9824 | -3.40 |
| TN | VH | 5179.9810 | -3.66 | 5179.9840 | -3.08 | 5180.0128 | 2.48 | 5180.0022 | 0.42 |
| Frequency Error vs. Temperature | | | | | | | | | |
| 802.11a:5180MHz | | | | | | | | | |
| Temp. | Volt. | 0 Minute | | 2 Minute | | 5 Minute | | 10 Minute | |
| | | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) |
| 70 | VN | 5179.9828 | -3.33 | 5180.0135 | 2.62 | 5179.9986 | -0.27 | 5180.0013 | 0.25 |
| 60 | VN | 5179.9764 | -4.56 | 5179.9951 | -0.94 | 5180.0245 | 4.74 | 5179.9823 | -3.42 |
| 50 | VN | 5179.9915 | -1.63 | 5180.0235 | 4.53 | 5179.9895 | -2.02 | 5180.0192 | 3.70 |
| 40 | VN | 5180.0028 | 0.54 | 5180.0047 | 0.90 | 5179.9963 | -0.72 | 5179.9797 | -3.93 |
| 30 | VN | 5179.9837 | -3.14 | 5180.0206 | 3.98 | 5179.9820 | -3.47 | 5180.0130 | 2.52 |
| 20 | VN | 5180.0122 | 2.35 | 5180.0126 | 2.42 | 5179.9908 | -1.77 | 5179.9754 | -4.75 |
| 10 | VN | 5179.9882 | -2.27 | 5179.9992 | -0.16 | 5180.0182 | 3.52 | 5180.0223 | 4.30 |
| 0 | VN | 5180.0066 | 1.27 | 5180.0074 | 1.43 | 5179.9795 | -3.96 | 5179.9862 | -2.67 |

Note:

1. All antennas, test modes and test channels have been tested, only the worst data record in the report.
2. For the detail Test Conditions, please refer to section 7.5 TEST ENVIRONMENT.

| Frequency Error vs. Voltage | | | | | | | | | |
|-----------------------------|-------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|
| 802.11a:5825MHz | | | | | | | | | |
| Temp. | Volt. | 0 Minute | | 2 Minute | | 5 Minute | | 10 Minute | |
| | | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) |
| TN | VL | 5825.0086 | 1.47 | 5824.9950 | -0.86 | 5824.9807 | -3.31 | 5825.0023 | 0.40 |
| TN | VN | 5824.9766 | -4.02 | 5825.0030 | 0.51 | 5824.9914 | -1.48 | 5825.0044 | 0.75 |
| TN | VH | 5824.9910 | -1.54 | 5824.9866 | -2.30 | 5824.9794 | -3.54 | 5824.9972 | -0.47 |

| Frequency Error vs. Temperature | | | | | | | | | |
|---------------------------------|-------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|
| 802.11a:5825MHz | | | | | | | | | |
| Temp. | Volt. | 0 Minute | | 2 Minute | | 5 Minute | | 10 Minute | |
| | | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) | Freq.Error (MHz) | Tolerance (ppm) |
| 70 | VN | 5824.9786 | -3.68 | 5825.0029 | 0.49 | 5824.9873 | -2.17 | 5824.9847 | -2.62 |
| 60 | VN | 5825.0166 | 2.84 | 5824.9915 | -1.45 | 5825.0217 | 3.72 | 5824.9962 | -0.65 |
| 50 | VN | 5824.9769 | -3.96 | 5824.9984 | -0.28 | 5825.0184 | 3.16 | 5824.9770 | -3.95 |
| 40 | VN | 5825.0208 | 3.57 | 5825.0183 | 3.14 | 5825.0184 | 3.15 | 5824.9924 | -1.30 |
| 30 | VN | 5825.0206 | 3.53 | 5824.9871 | -2.22 | 5824.9899 | -1.74 | 5825.0244 | 4.19 |
| 20 | VN | 5825.0037 | 0.63 | 5824.9977 | -0.40 | 5824.9826 | -2.98 | 5824.9778 | -3.81 |
| 10 | VN | 5824.9892 | -1.85 | 5824.9868 | -2.27 | 5824.9911 | -1.53 | 5825.0147 | 2.53 |
| 0 | VN | 5824.9953 | -0.81 | 5824.9965 | -0.59 | 5825.0129 | 2.22 | 5825.0021 | 0.35 |

Note:

1. All antennas, test modes and test channels have been tested, only the worst data record in the report.
2. For the detail Test Conditions, please refer to section 7.5 TEST ENVIRONMENT.

11.7. APPENDIX G: DUTY CYCLE

11.7.1. Test Result

| Test Mode | On Time (msec) | Period (msec) | Duty Cycle x (Linear) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | 1/T Minimum VBW (kHz) | Final setting For VBW (kHz) |
|------------|----------------|---------------|-----------------------|----------------|-----------------------------------|-----------------------|-----------------------------|
| 11A | 1.39 | 1.44 | 0.9653 | 96.53 | 0.15 | 0.72 | 1 |
| 11N20MIMO | 1.3 | 1.34 | 0.9701 | 97.01 | 0.13 | 0.77 | 1 |
| 11N40MIMO | 0.65 | 0.7 | 0.9286 | 92.86 | 0.32 | 1.54 | 2 |
| 11AC80MIMO | 0.33 | 0.37 | 0.8919 | 89.19 | 0.50 | 3.03 | 4 |

Note:

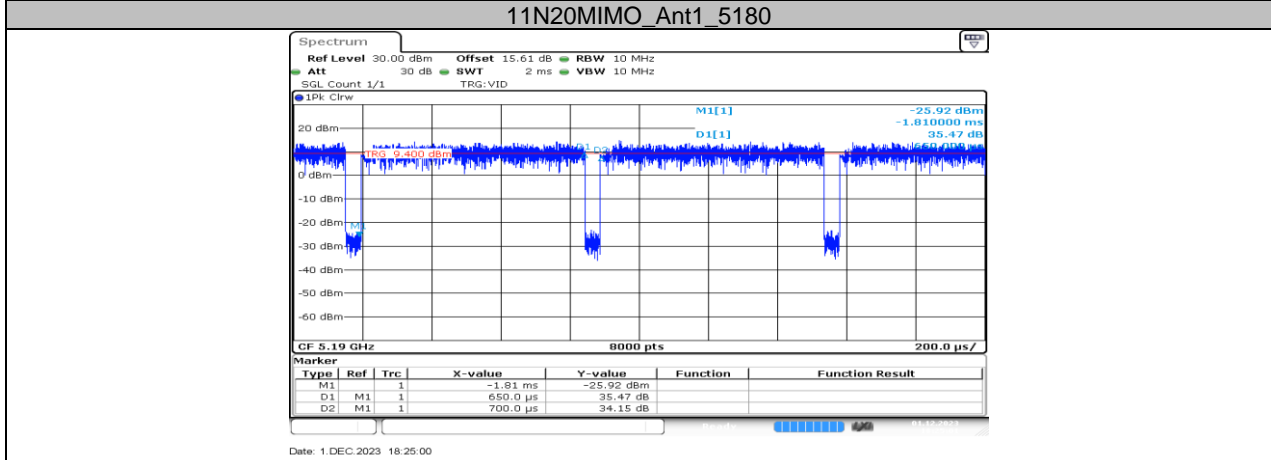
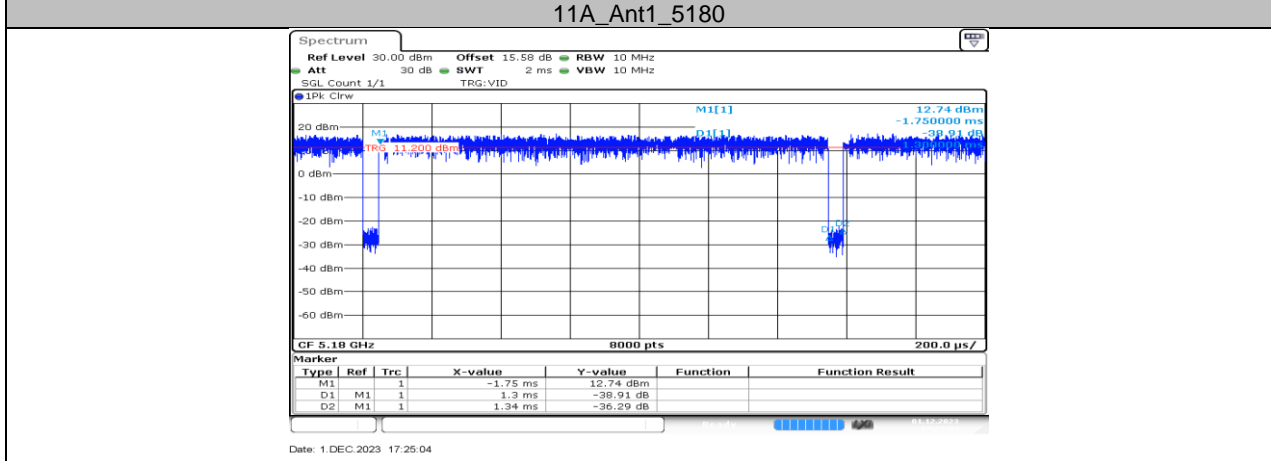
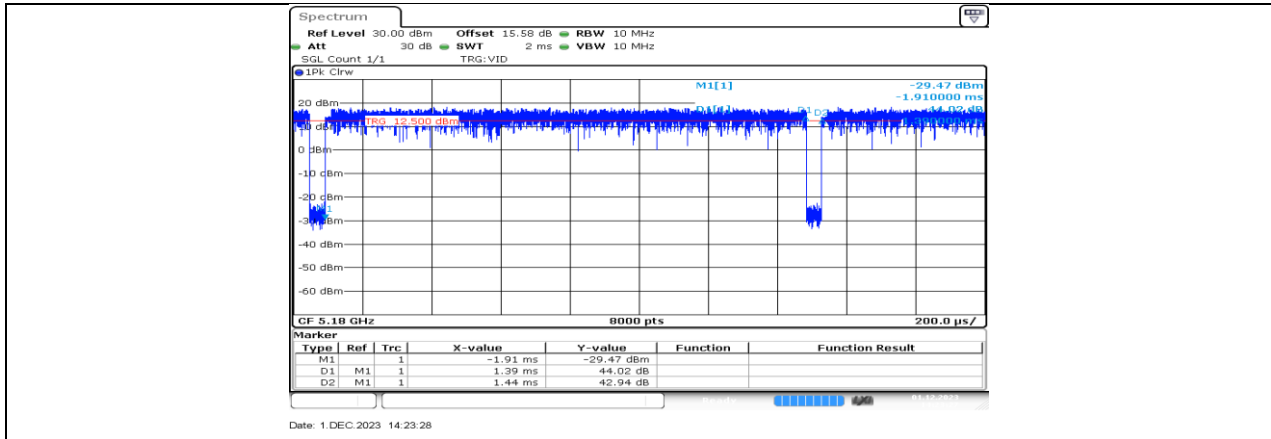
Duty Cycle Correction Factor=10log (1/x).

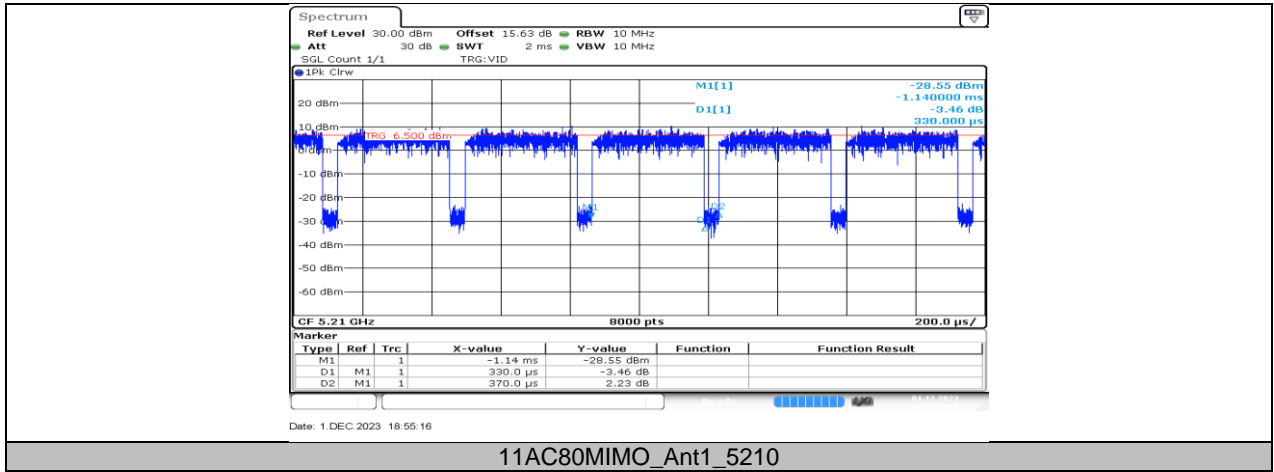
Where: x is Duty Cycle (Linear)

Where: T is On Time

If that calculated VBW is not available on the analyzer then the next higher value should be used.

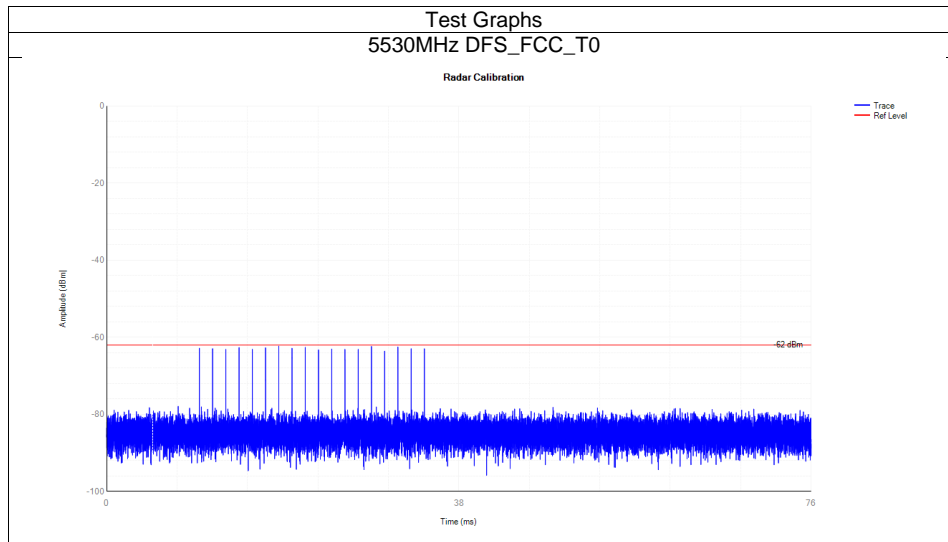
11.7.2. Test Graphs





11.8. APPENDIX H: CALIBRATION

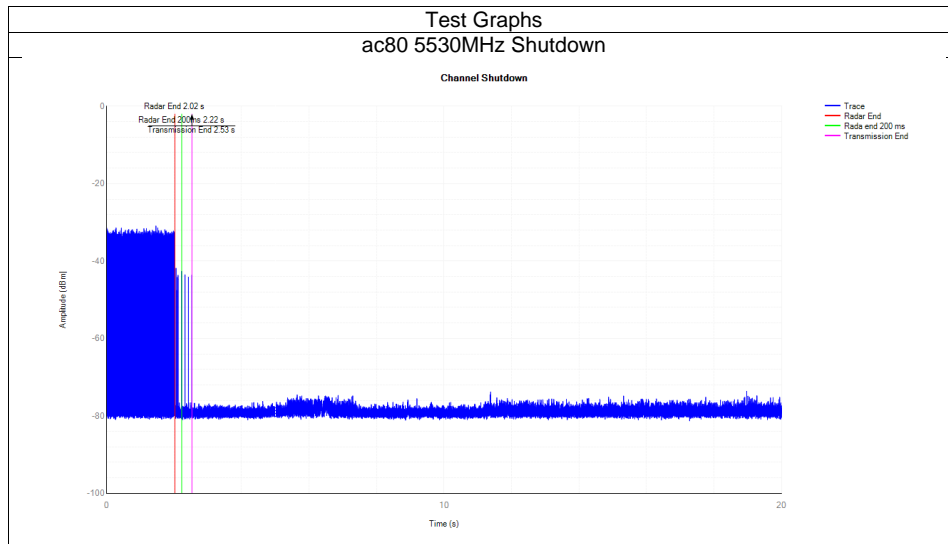
| Mode | Frequency (MHz) | Type | Result | Verdict |
|------|-----------------|------------|----------------|---------|
| ac80 | 5530 | DFS_FCC_T0 | See test Graph | Pass |



11.9. APPENDIX I: SHUTDOWN TIME

| Mode | Frequency (MHz) | Channel Move Time (s) | Limit Channel Move Time (s) | Close Transmission Time (s) | Limit Close Transmission Time (s) | Close Transmission Time after 200ms(s) | Limit Close Transmission Time after 200ms (s) | Verdict |
|------|-----------------|-----------------------|-----------------------------|-----------------------------|-----------------------------------|--|---|---------|
| ac80 | 5530 | 0.504 | 10 | 0.013 | 0.26 | 0.006 | 0.06 | Pass |

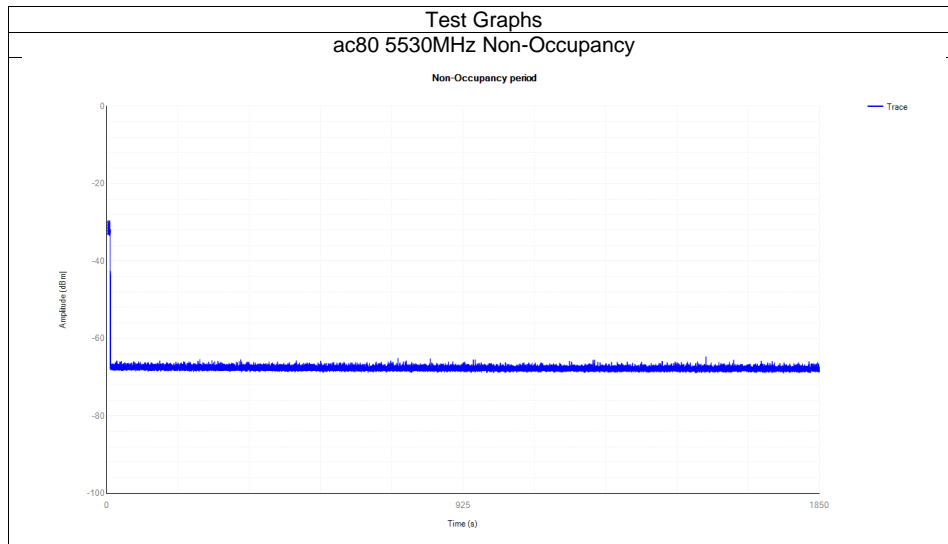
Note: Refer to KDB905462 table 2, only the widest BW mode data recorded in the report.



11.10. APPENDIX J: NON-OCCUPANCY

| Mode | Frequency (MHz) | Result | Verdict |
|------|-----------------|----------------|---------|
| ac80 | 5530 | See test Graph | Pass |

Note: Refer to KDB905462 table 2, only the widest BW mode data recorded in the report.



END OF REPORT