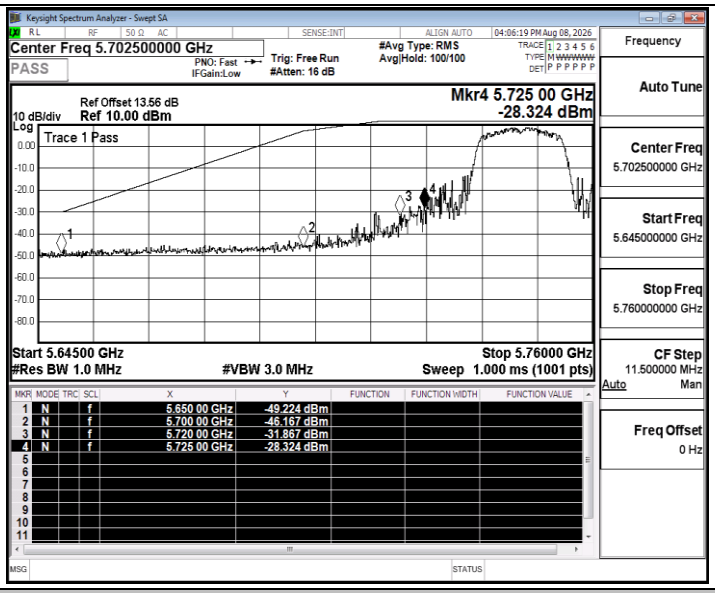
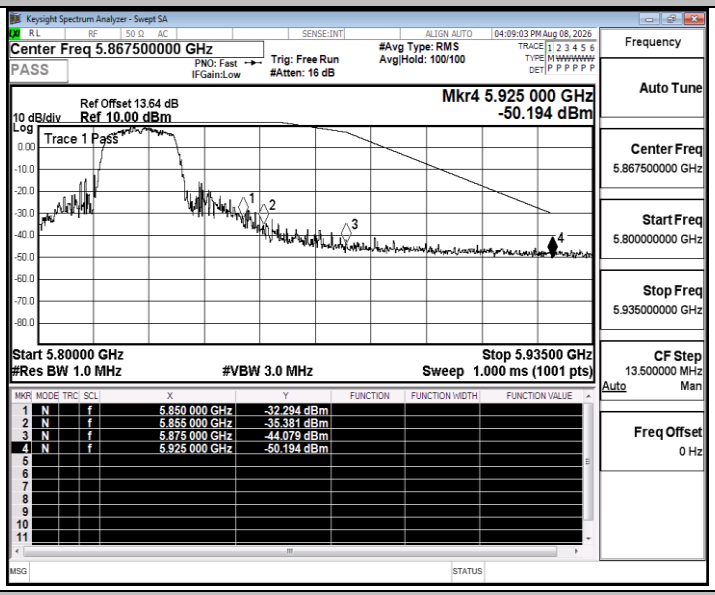
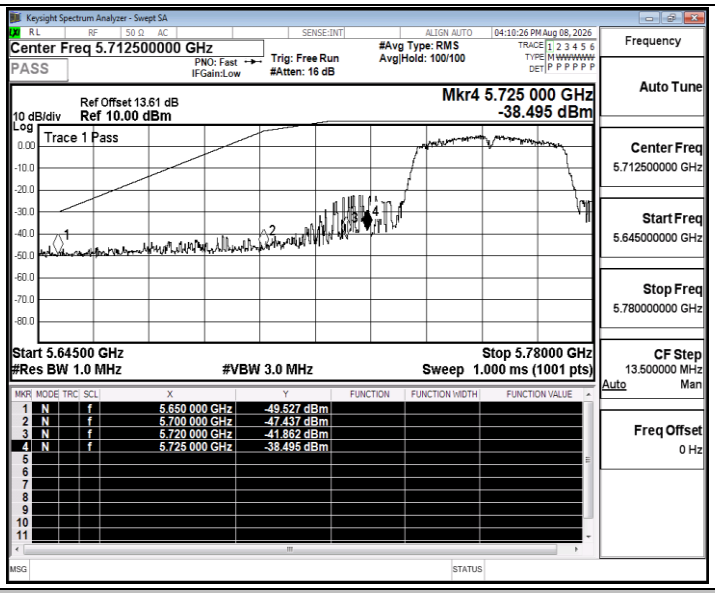


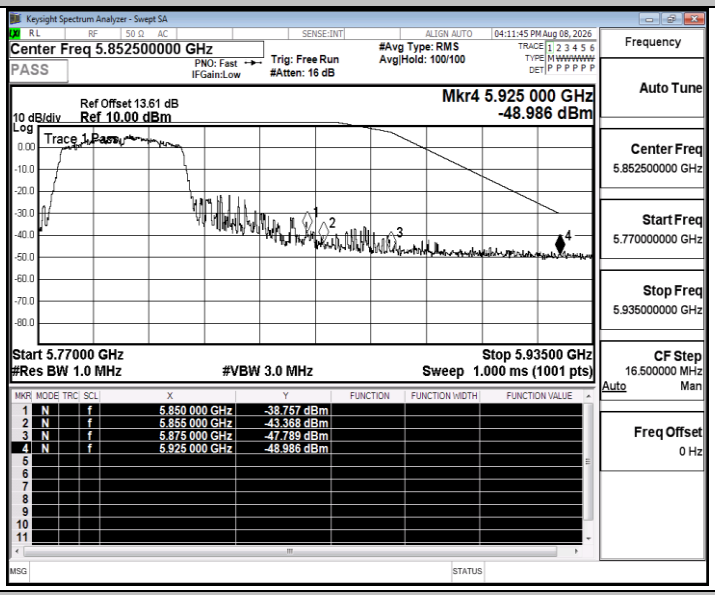

11N20SISO_Ant1_High_5825_Peak



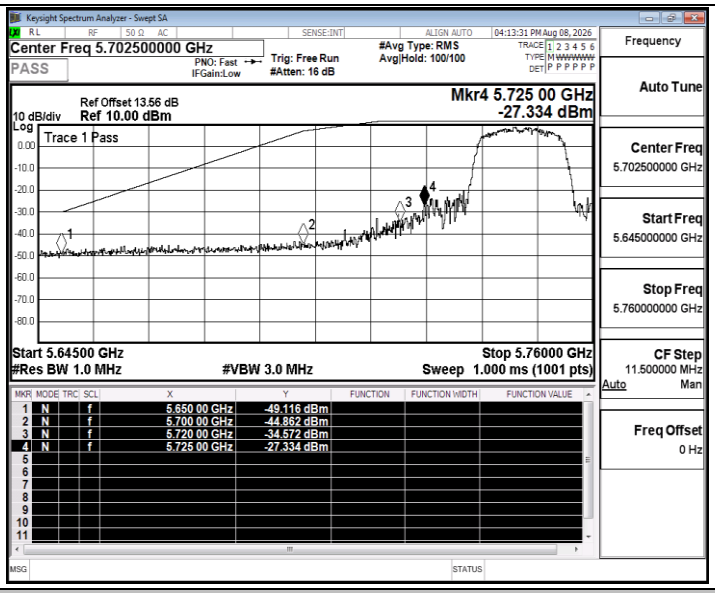

11N40SISO_Ant1_Low_5755_Peak



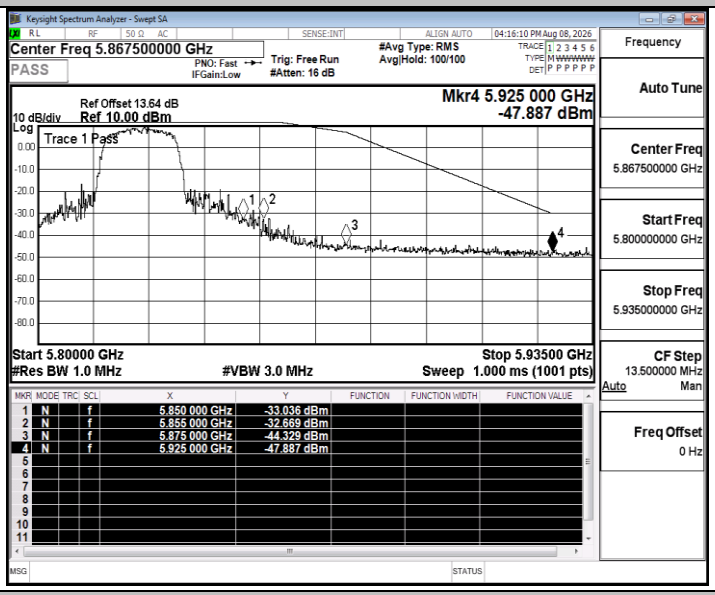

11N40SISO_Ant1_High_5795_Peak



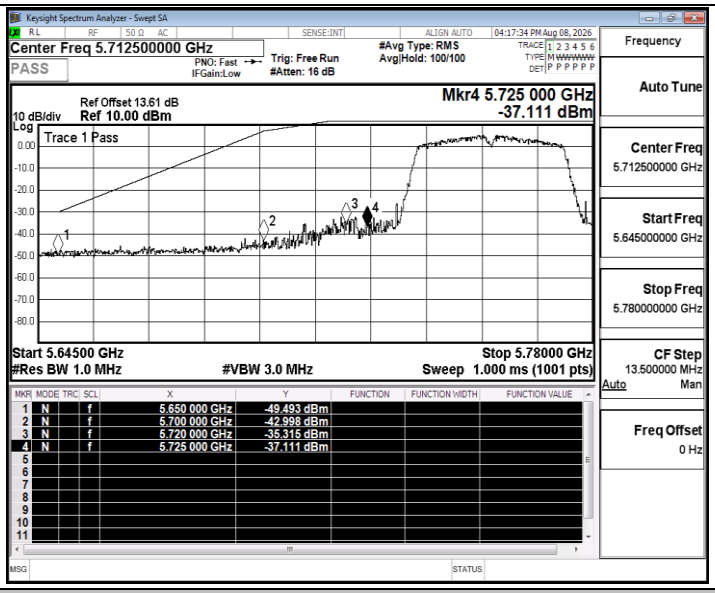

11AC20SISO_Ant1_Low_5745_Peak



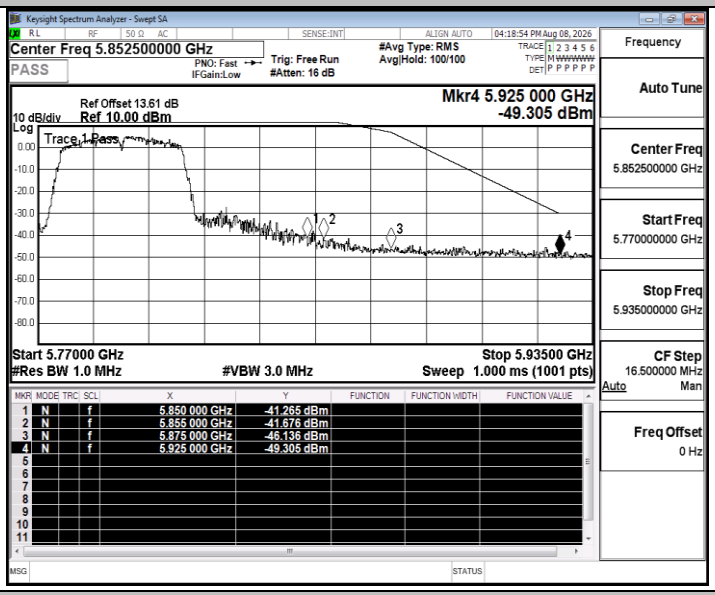

11AC20SISO_Ant1_High_5825_Peak



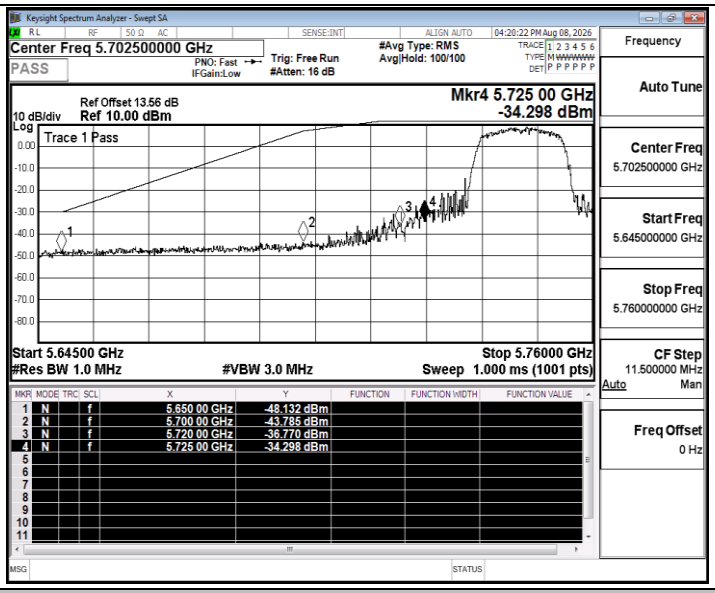

11AC40SISO_Ant1_Low_5755_Peak



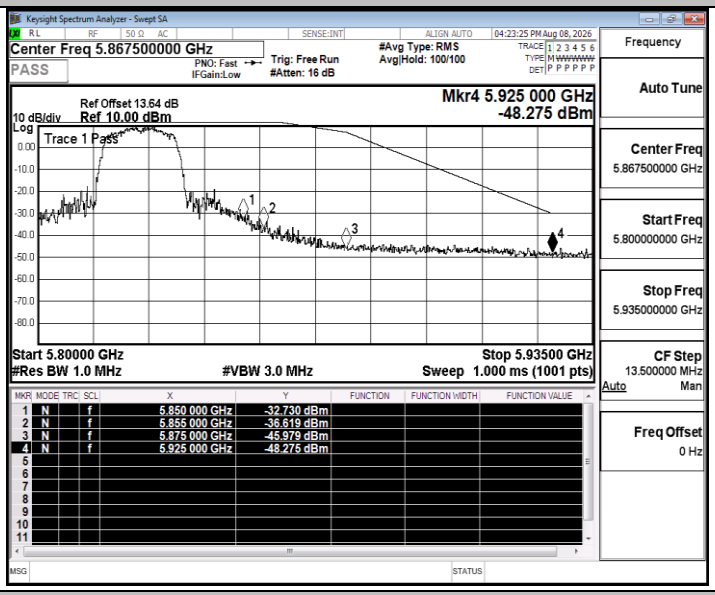

11AC40SISO_Ant1_High_5795_Peak



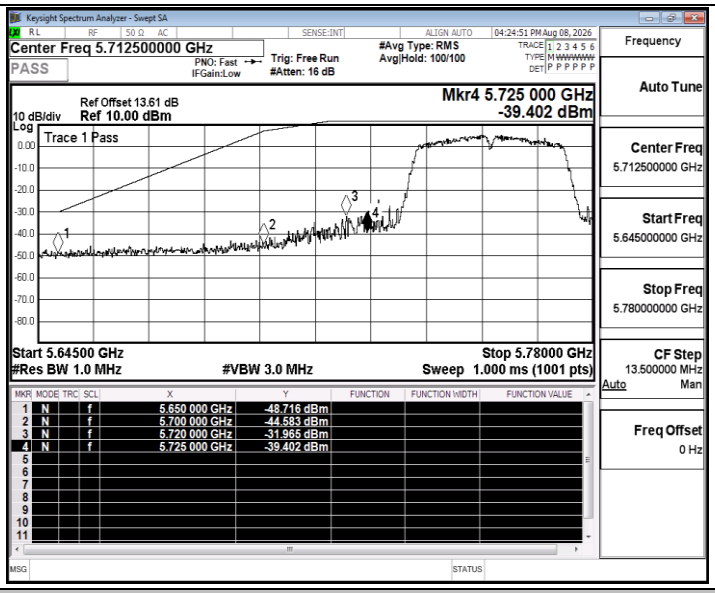

11AX20SISO_Ant1_Low_5745_Peak



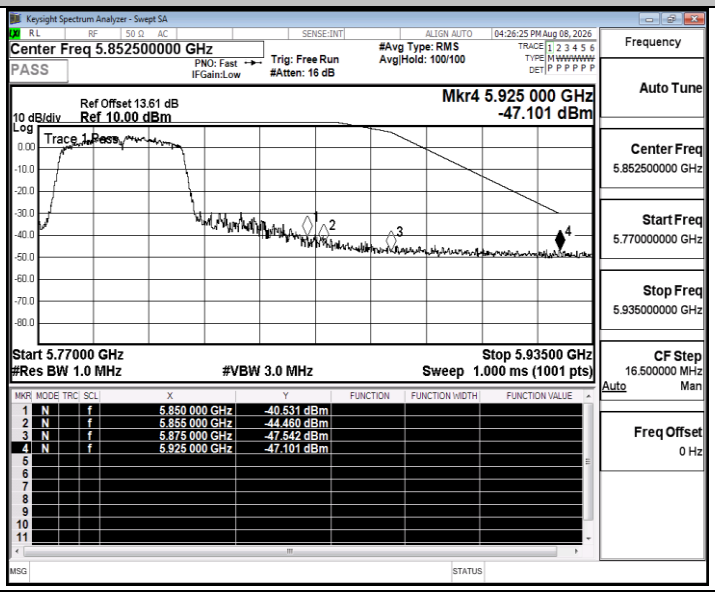

11AX20SISO_Ant1_High_5825_Peak




11AX40SISO_Ant1_Low_5755_Peak




11AX40SISO_Ant1_High_5795_Peak



# G.5 Frequency Stability

## Test Result

| Voltage | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TestMode | Antenna | Freq (MHz) | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| 11A | Ant1 | 5745 | NV | NT | -80000.00 | -13.925152 | 20 | PASS |
| | | | LV | NT | -40000.00 | -6.962576 | 20 | PASS |
| | | | HV | NT | -40000.00 | -6.962576 | 20 | PASS |
| | | 5785 | NV | NT | -100000.00 | -17.286085 | 20 | PASS |
| | | | LV | NT | -40000.00 | -6.914434 | 20 | PASS |
| | | | HV | NT | -40000.00 | -6.914434 | 20 | PASS |
| | | 5825 | NV | NT | -20000.00 | -3.433476 | 20 | PASS |
| | | | LV | NT | -80000.00 | -13.733906 | 20 | PASS |
| | | | HV | NT | -40000.00 | -6.866953 | 20 | PASS |
| 11N20SISO | Ant1 | 5745 | NV | NT | -80000.00 | -13.925152 | 20 | PASS |
| | | | LV | NT | -60000.00 | -10.443864 | 20 | PASS |
| | | | HV | NT | -40000.00 | -6.962576 | 20 | PASS |
| | | 5785 | NV | NT | -20000.00 | -3.457217 | 20 | PASS |
| | | | LV | NT | -100000.00 | -17.286085 | 20 | PASS |
| | | | HV | NT | 20000.00 | 3.457217 | 20 | PASS |
| | | 5825 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | -80000.00 | -13.733906 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| 11N40SISO | Ant1 | 5755 | NV | NT | -40000.00 | -6.950478 | 20 | PASS |
| | | | LV | NT | -40000.00 | -6.950478 | 20 | PASS |
| | | | HV | NT | -80000.00 | -13.900956 | 20 | PASS |
| | | 5795 | NV | NT | -80000.00 | -13.805004 | 20 | PASS |
| | | | LV | NT | -40000.00 | -6.902502 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| 11AC20SISO | Ant1 | 5745 | NV | NT | -20000.00 | -3.481288 | 20 | PASS |
| | | | LV | NT | -60000.00 | -10.443864 | 20 | PASS |
| | | | HV | NT | -60000.00 | -10.443864 | 20 | PASS |
| | | 5785 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | -60000.00 | -10.371651 | 20 | PASS |
| | | | HV | NT | -80000.00 | -13.828868 | 20 | PASS |
| | | 5825 | NV | NT | -40000.00 | -6.866953 | 20 | PASS |
| | | | LV | NT | -20000.00 | -3.433476 | 20 | PASS |
| | | | HV | NT | -40000.00 | -6.866953 | 20 | PASS |
| 11AC40SISO | Ant1 | 5755 | NV | NT | 40000.00 | 6.950478 | 20 | PASS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | LV | NT | 40000.00 | 6.950478 | 20 | PASS |
| | | | HV | NT | 40000.00 | 6.950478 | 20 | PASS |
| | | 5795 | NV | NT | -40000.00 | -6.902502 | 20 | PASS |
| | | | LV | NT | -40000.00 | -6.902502 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| 11AX20SISO | Ant1 | 5745 | NV | NT | -80000.00 | -13.925152 | 20 | PASS |
| | | | LV | NT | -40000.00 | -6.962576 | 20 | PASS |
| | | | HV | NT | -20000.00 | -3.481288 | 20 | PASS |
| | | 5785 | NV | NT | 20000.00 | 3.457217 | 20 | PASS |
| | | | LV | NT | -20000.00 | -3.457217 | 20 | PASS |
| | | | HV | NT | -20000.00 | -3.457217 | 20 | PASS |
| | | 5825 | NV | NT | -20000.00 | -3.457217 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | -40000.00 | -6.866953 | 20 | PASS |
| 11AX40SISO | Ant1 | 5755 | NV | NT | 80000.00 | 13.900956 | 20 | PASS |
| | | | LV | NT | 40000.00 | 6.950478 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | 5795 | NV | NT | 80000.00 | 13.805004 | 20 | PASS |
| | | | LV | NT | 80000.00 | 13.805004 | 20 | PASS |
| | | | HV | NT | 80000.00 | 13.805004 | 20 | PASS |

| Temperature | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| TestMode | Antenna | Freq (MHz) | Voltage [Vdc] | Temperature (℃) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| 11A | Ant1 | 5745 | NV | -30 | -40000.00 | -6.962576 | 20 | PASS |
| | | | NV | -20 | -40000.00 | -6.962576 | 20 | PASS |
| | | | NV | -10 | -60000.00 | -10.443864 | 20 | PASS |
| | | | NV | 0 | -40000.00 | -6.962576 | 20 | PASS |
| | | | NV | 10 | -20000.00 | -3.481288 | 20 | PASS |
| | | | NV | 20 | -60000.00 | -10.443864 | 20 | PASS |
| | | | NV | 30 | -20000.00 | -3.481288 | 20 | PASS |
| | | | NV | 40 | -20000.00 | -3.481288 | 20 | PASS |
| | | | NV | 50 | -60000.00 | -10.443864 | 20 | PASS |
| | | 5785 | NV | -30 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | -20 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | -10 | -80000.00 | -13.828868 | 20 | PASS |
| | | | NV | 0 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | 10 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | 20 | -40000.00 | -6.914434 | 20 | PASS |
| | | | NV | 30 | -40000.00 | -6.914434 | 20 | PASS |
| | | | NV | 40 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | 50 | -60000.00 | -10.371651 | 20 | PASS |
| | | 5825 | NV | -30 | -60000.00 | -10.300429 | 20 | PASS |
| | | | NV | -20 | -20000.00 | -3.433476 | 20 | PASS |
| | | | NV | -10 | -40000.00 | -6.866953 | 20 | PASS |
| | | | NV | 0 | -60000.00 | -10.300429 | 20 | PASS |
| | | | NV | 10 | -40000.00 | -6.866953 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | -20000.00 | -3.433476 | 20 | PASS |
| | | | NV | 40 | -20000.00 | -3.433476 | 20 | PASS |
| | | | NV | 50 | -20000.00 | -3.433476 | 20 | PASS |
| 11N20SISO | Ant1 | 5745 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 20000.00 | 3.481288 | 20 | PASS |
| | | | NV | -10 | -40000.00 | -6.962576 | 20 | PASS |
| | | | NV | 0 | -20000.00 | -3.481288 | 20 | PASS |
| | | | NV | 10 | -20000.00 | -3.481288 | 20 | PASS |
| | | | NV | 20 | -40000.00 | -6.962576 | 20 | PASS |
| | | | NV | 30 | -40000.00 | -6.962576 | 20 | PASS |
| | | | NV | 40 | -20000.00 | -3.481288 | 20 | PASS |
| | | | NV | 50 | -80000.00 | -13.925152 | 20 | PASS |
| | | 5785 | NV | -30 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | -20 | -60000.00 | -10.371651 | 20 | PASS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | NV | -10 | -40000.00 | -6.914434 | 20 | PASS |
| | | | NV | 0 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | 10 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | 20 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | 30 | 40000.00 | 6.914434 | 20 | PASS |
| | | | NV | 40 | -40000.00 | -6.914434 | 20 | PASS |
| | | | NV | 50 | -20000.00 | -3.457217 | 20 | PASS |
| | | 5825 | NV | -30 | 40000.00 | 6.866953 | 20 | PASS |
| | | | NV | -20 | -60000.00 | -10.300429 | 20 | PASS |
| | | | NV | -10 | -60000.00 | -10.300429 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 20000.00 | 3.433476 | 20 | PASS |
| | | | NV | 20 | -100000.00 | -17.167382 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | -40000.00 | -6.866953 | 20 | PASS |
| | | | NV | 50 | -20000.00 | -3.433476 | 20 | PASS |
| 11N40SISO | Ant1 | 5755 | NV | -30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | -40000.00 | -6.950478 | 20 | PASS |
| | | | NV | 0 | -40000.00 | -6.950478 | 20 | PASS |
| | | | NV | 10 | 40000.00 | 6.950478 | 20 | PASS |
| | | | NV | 20 | 80000.00 | 13.900956 | 20 | PASS |
| | | | NV | 30 | 80000.00 | 13.900956 | 20 | PASS |
| | | | NV | 40 | 80000.00 | 13.900956 | 20 | PASS |
| | | | NV | 50 | 80000.00 | 13.900956 | 20 | PASS |
| | | 5795 | NV | -30 | -40000.00 | -6.902502 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | -40000.00 | -6.902502 | 20 | PASS |
| | | | NV | 0 | -40000.00 | -6.902502 | 20 | PASS |
| | | | NV | 10 | -80000.00 | -13.805004 | 20 | PASS |
| | | | NV | 20 | -80000.00 | -13.805004 | 20 | PASS |
| | | | NV | 30 | -80000.00 | -13.805004 | 20 | PASS |
| | | | NV | 40 | -80000.00 | -13.805004 | 20 | PASS |
| | | | NV | 50 | -80000.00 | -13.805004 | 20 | PASS |
| 11AC20SISO | Ant1 | 5745 | NV | -30 | -40000.00 | -6.962576 | 20 | PASS |
| | | | NV | -20 | -80000.00 | -13.925152 | 20 | PASS |
| | | | NV | -10 | -80000.00 | -13.925152 | 20 | PASS |
| | | | NV | 0 | -100000.00 | -17.406440 | 20 | PASS |
| | | | NV | 10 | -60000.00 | -10.443864 | 20 | PASS |
| | | | NV | 20 | -40000.00 | -6.962576 | 20 | PASS |
| | | | NV | 30 | -20000.00 | -3.481288 | 20 | PASS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |
| | | 5785 | NV | -30 | -40000.00 | -6.914434 | 20 | PASS |
| | | | NV | -20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | -10 | -40000.00 | -6.914434 | 20 | PASS |
| | | | NV | 0 | -40000.00 | -6.914434 | 20 | PASS |
| | | | NV | 10 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | 20 | 80000.00 | 13.828868 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 40 | -40000.00 | -6.914434 | 20 | PASS |
| | | | NV | 50 | -40000.00 | -6.914434 | 20 | PASS |
| | | 5825 | NV | -30 | -20000.00 | -3.433476 | 20 | PASS |
| | | | NV | -20 | -60000.00 | -10.300429 | 20 | PASS |
| | | | NV | -10 | -60000.00 | -10.300429 | 20 | PASS |
| | | | NV | 0 | -60000.00 | -10.300429 | 20 | PASS |
| | | | NV | 10 | -80000.00 | -13.733906 | 20 | PASS |
| | | | NV | 20 | -20000.00 | -3.433476 | 20 | PASS |
| | | | NV | 30 | -40000.00 | -6.866953 | 20 | PASS |
| | | | NV | 40 | -40000.00 | -6.866953 | 20 | PASS |
| | | | NV | 50 | -40000.00 | -6.866953 | 20 | PASS |
| 11AC40SISO | Ant1 | 5755 | NV | -30 | -80000.00 | -13.900956 | 20 | PASS |
| | | | NV | -20 | -80000.00 | -13.900956 | 20 | PASS |
| | | | NV | -10 | -80000.00 | -13.900956 | 20 | PASS |
| | | | NV | 0 | -80000.00 | -13.900956 | 20 | PASS |
| | | | NV | 10 | -40000.00 | -6.950478 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 80000.00 | 13.900956 | 20 | PASS |
| | | | NV | 40 | -80000.00 | -13.900956 | 20 | PASS |
| | | | NV | 50 | -80000.00 | -13.805004 | 20 | PASS |
| | | 5795 | NV | -30 | -80000.00 | -13.805004 | 20 | PASS |
| | | | NV | -20 | -80000.00 | -13.805004 | 20 | PASS |
| | | | NV | -10 | -80000.00 | -13.805004 | 20 | PASS |
| | | | NV | 0 | -80000.00 | -13.805004 | 20 | PASS |
| | | | NV | 10 | -80000.00 | -13.805004 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | -80000.00 | -13.805004 | 20 | PASS |
| | | | NV | 40 | -40000.00 | -6.902502 | 20 | PASS |
| | | | NV | 50 | -40000.00 | -6.902502 | 20 | PASS |
| 11AX20SISO | Ant1 | 5745 | NV | -30 | -20000.00 | -3.481288 | 20 | PASS |
| | | | NV | -20 | -40000.00 | -6.962576 | 20 | PASS |
| | | | NV | -10 | 20000.00 | 3.481288 | 20 | PASS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | NV | 0 | 20000.00 | 3.481288 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | -20000.00 | -3.481288 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 50 | -20000.00 | -3.481288 | 20 | PASS |
| | | 5785 | NV | -30 | -60000.00 | -10.371651 | 20 | PASS |
| | | | NV | -20 | 20000.00 | 3.457217 | 20 | PASS |
| | | | NV | -10 | -40000.00 | -6.914434 | 20 | PASS |
| | | | NV | 0 | -80000.00 | -13.828868 | 20 | PASS |
| | | | NV | 10 | -40000.00 | -6.914434 | 20 | PASS |
| | | | NV | 20 | -20000.00 | -3.457217 | 20 | PASS |
| | | | NV | 30 | 60000.00 | 10.371651 | 20 | PASS |
| | | | NV | 40 | -40000.00 | -6.914434 | 20 | PASS |
| | | | NV | 50 | -100000.00 | -17.286085 | 20 | PASS |
| | | 5825 | NV | -30 | -20000.00 | -3.433476 | 20 | PASS |
| | | | NV | -20 | 20000.00 | 3.433476 | 20 | PASS |
| | | | NV | -10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 0 | -40000.00 | -6.866953 | 20 | PASS |
| | | | NV | 10 | -20000.00 | -3.433476 | 20 | PASS |
| | | | NV | 20 | -40000.00 | -6.866953 | 20 | PASS |
| | | | NV | 30 | -60000.00 | -10.300429 | 20 | PASS |
| | | | NV | 40 | -20000.00 | -3.433476 | 20 | PASS |
| | | | NV | 50 | 20000.00 | 3.433476 | 20 | PASS |
| 11AX40SISO | Ant1 | 5755 | NV | -30 | -80000.00 | -13.900956 | 20 | PASS |
| | | | NV | -20 | -40000.00 | -6.950478 | 20 | PASS |
| | | | NV | -10 | -40000.00 | -6.950478 | 20 | PASS |
| | | | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | -40000.00 | -6.950478 | 20 | PASS |
| | | | NV | 30 | -40000.00 | -6.950478 | 20 | PASS |
| | | | NV | 40 | 40000.00 | 6.950478 | 20 | PASS |
| | | | NV | 50 | -40000.00 | -6.902502 | 20 | PASS |
| | | 5795 | NV | -30 | -40000.00 | -6.902502 | 20 | PASS |
| | | | NV | -20 | -40000.00 | -6.902502 | 20 | PASS |
| | | | NV | -10 | -40000.00 | -6.902502 | 20 | PASS |
| | | | NV | 0 | -40000.00 | -6.902502 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | -40000.00 | -6.902502 | 20 | PASS |
| | | | NV | 30 | -40000.00 | -6.902502 | 20 | PASS |
| | | | NV | 40 | 0.00 | 0.000000 | 20 | PASS |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | NV | 50 | 0.00 | 0.000000 | 20 | PASS |

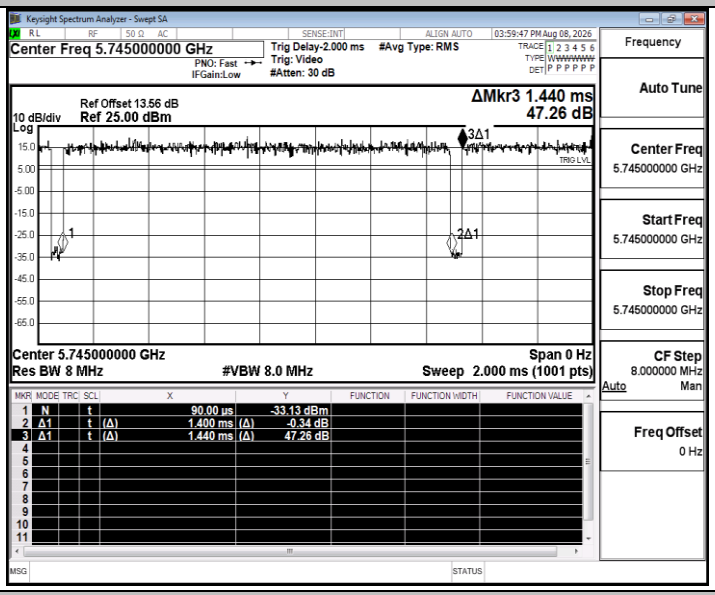
# G.6 Duty Cycle

## Test Result

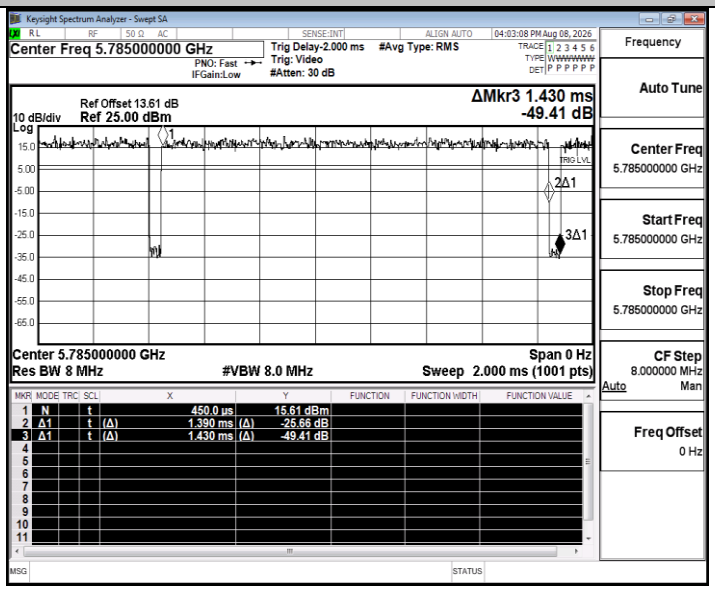
| TestMode | Antenna | Freq (MHz) | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] | DC Factor | Limit | Verdict |
|---|---|---|---|---|---|---|---|---|
| 11A | Ant1 | 5745 | 1.40 | 1.44 | 97.22 | 0.12 | --- | --- |
| | | 5785 | 1.39 | 1.43 | 97.20 | 0.12 | --- | --- |
| | | 5825 | 1.39 | 1.43 | 97.20 | 0.12 | --- | --- |
| 11N20SISO | Ant1 | 5745 | 1.30 | 1.34 | 97.01 | 0.13 | --- | --- |
| | | 5785 | 1.30 | 1.35 | 96.30 | 0.16 | --- | --- |
| | | 5825 | 1.30 | 1.35 | 96.30 | 0.16 | --- | --- |
| 11N40SISO | Ant1 | 5755 | 0.64 | 0.69 | 92.75 | 0.33 | --- | --- |
| | | 5795 | 0.65 | 0.70 | 92.86 | 0.32 | --- | --- |
| 11AC20SISO | Ant1 | 5745 | 1.32 | 1.36 | 97.06 | 0.13 | --- | --- |
| | | 5785 | 1.31 | 1.36 | 96.32 | 0.16 | --- | --- |
| | | 5825 | 1.31 | 1.35 | 97.04 | 0.13 | --- | --- |
| 11AC40SISO | Ant1 | 5755 | 0.65 | 0.69 | 94.20 | 0.26 | --- | --- |
| | | 5795 | 0.65 | 0.69 | 94.20 | 0.26 | --- | --- |
| 11AX20SISO | Ant1 | 5745 | 1.31 | 1.35 | 97.04 | 0.13 | --- | --- |
| | | 5785 | 1.31 | 1.36 | 96.32 | 0.16 | --- | --- |
| | | 5825 | 1.31 | 1.36 | 96.32 | 0.16 | --- | --- |
| 11AX40SISO | Ant1 | 5755 | 0.65 | 0.70 | 92.86 | 0.32 | --- | --- |
| | | 5795 | 0.65 | 0.70 | 92.86 | 0.32 | --- | --- |

## Test Graphs

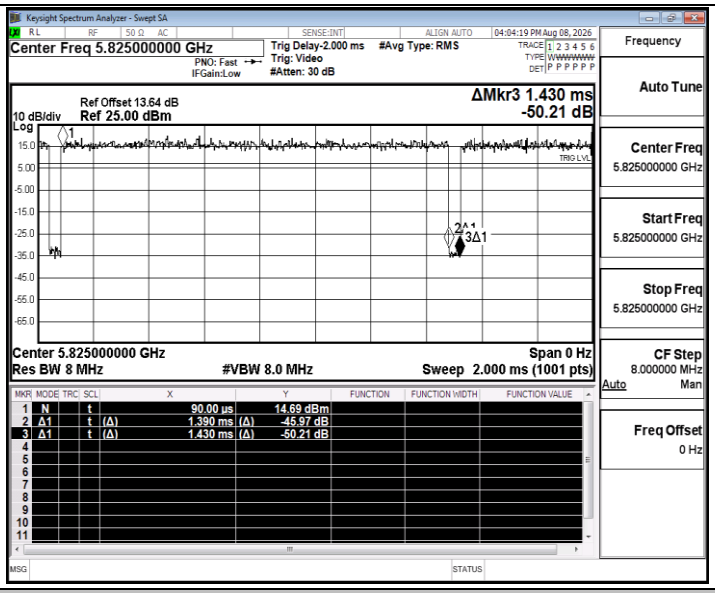
11A_Ant1_5745




11A_Ant1_5785




11A_Ant1_5825

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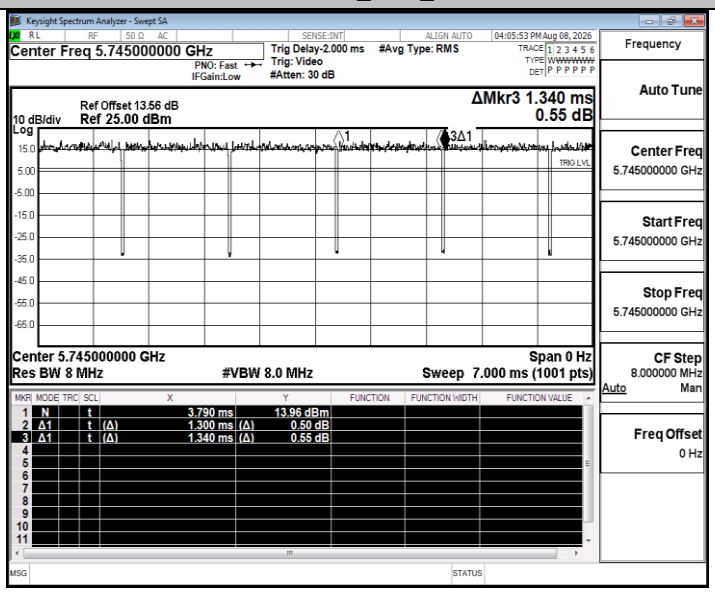


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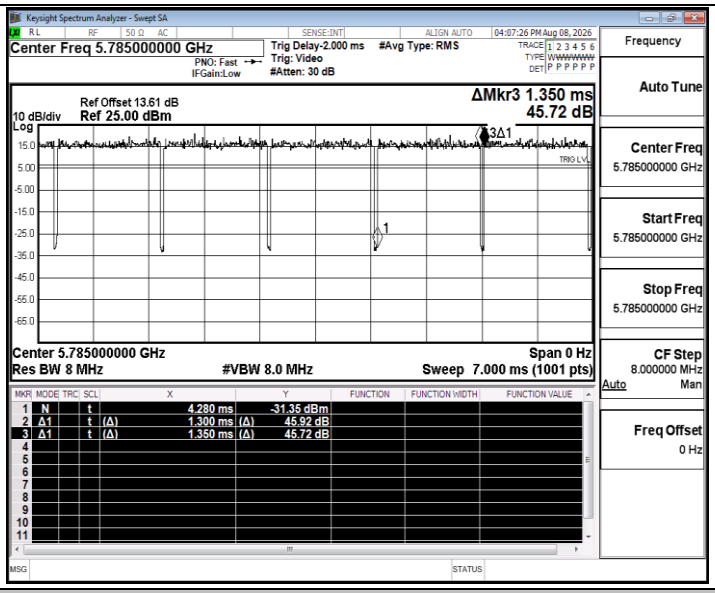


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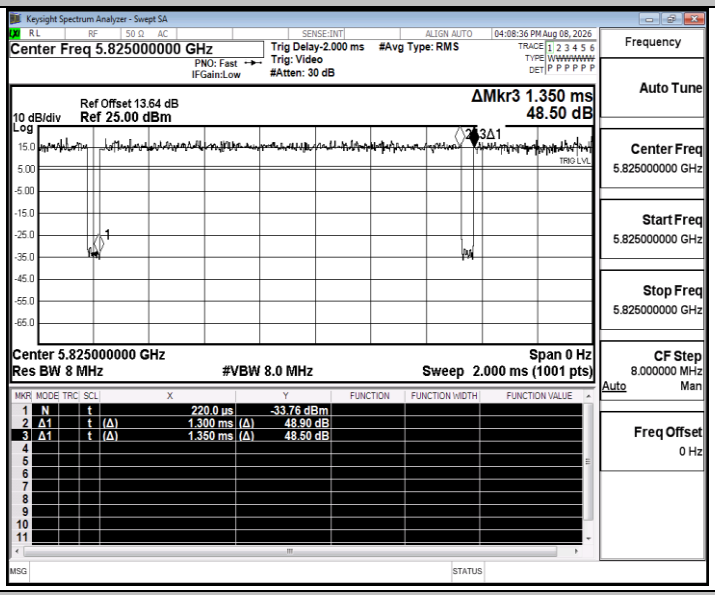
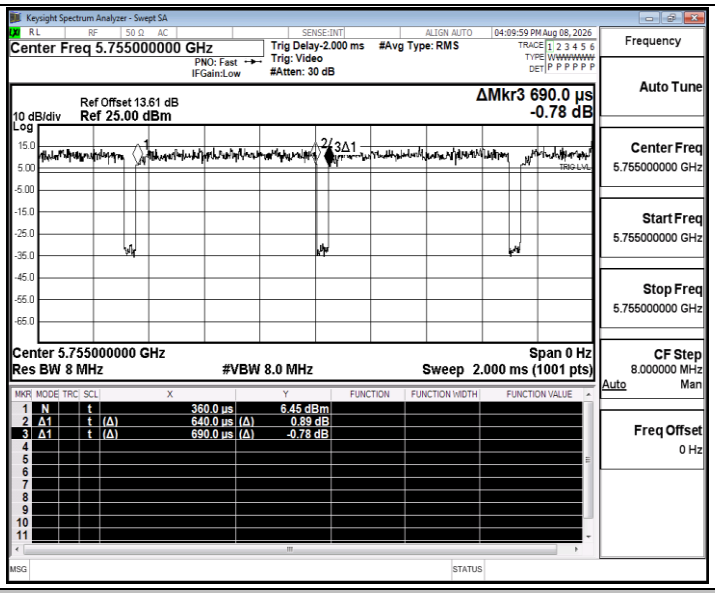
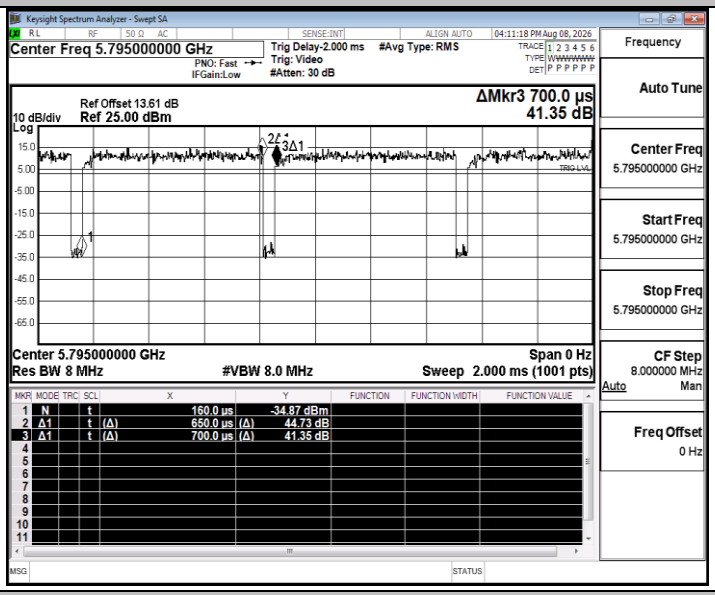


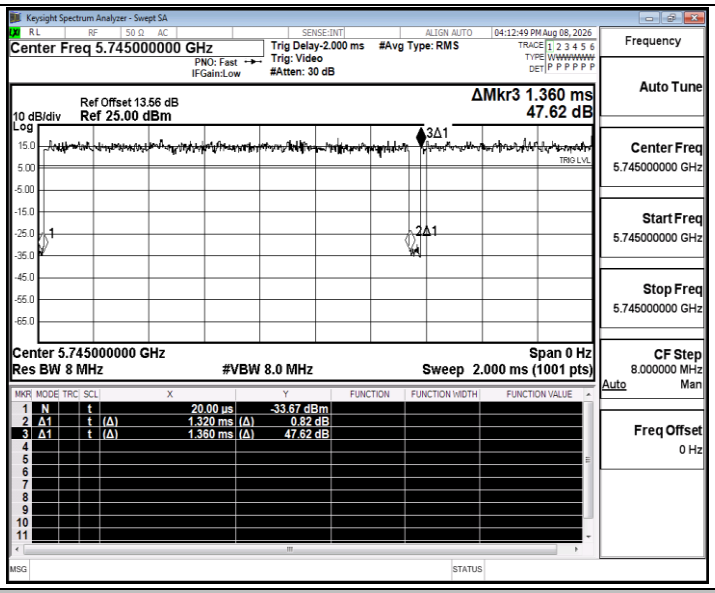

11N40SISO_Ant1_5755




11N40SISO_Ant1_5795




11AC20SISO_Ant1_5745

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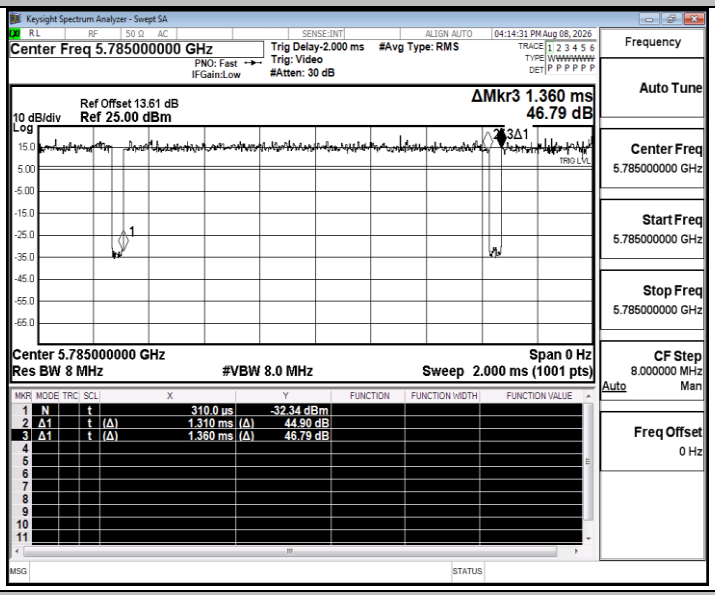


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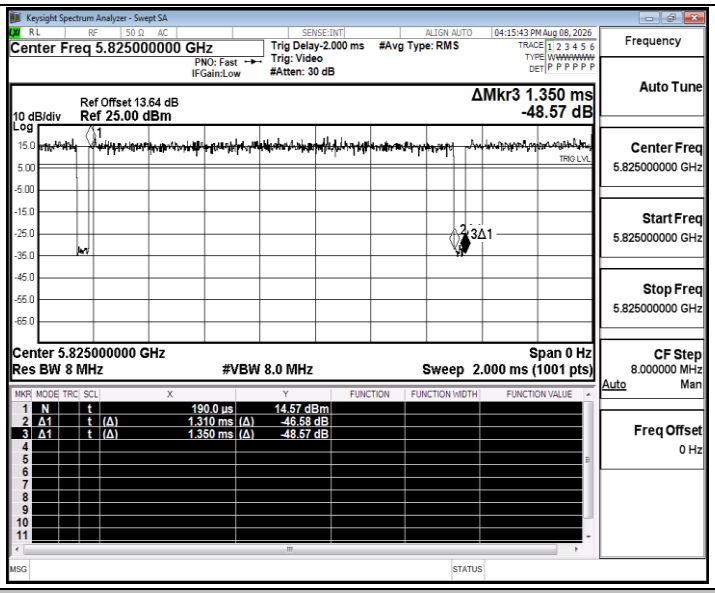


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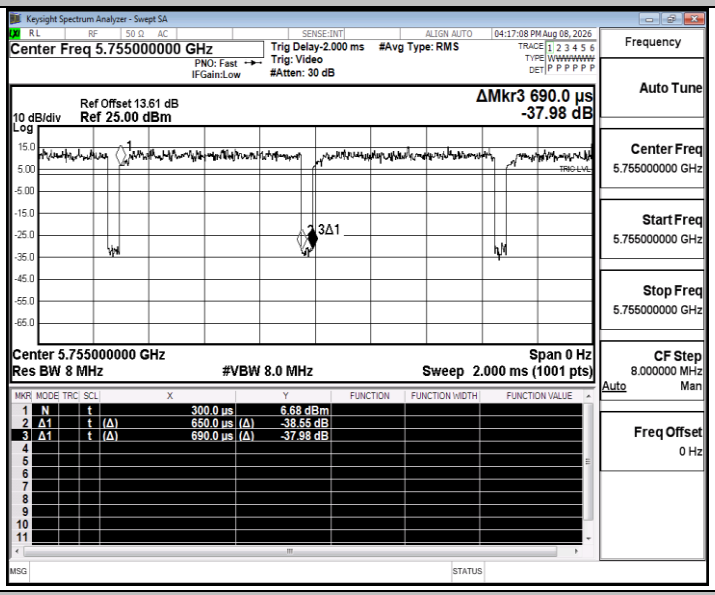


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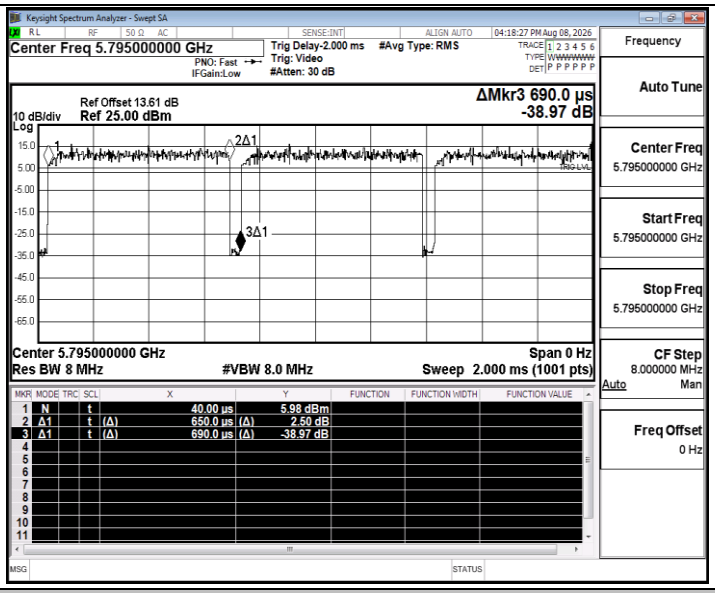
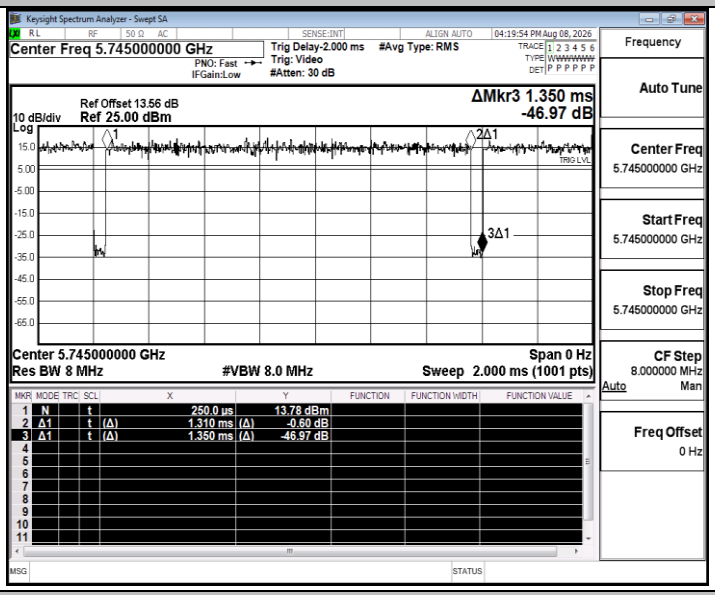



11AX20SISO_Ant1_5745

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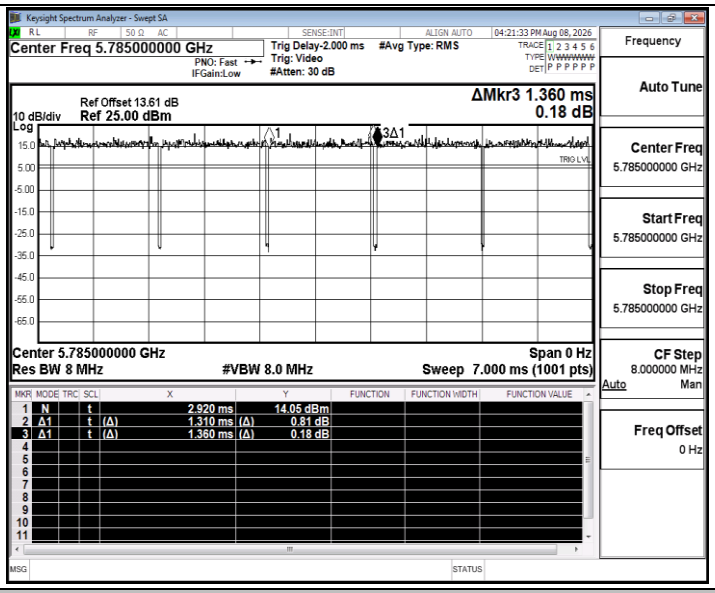


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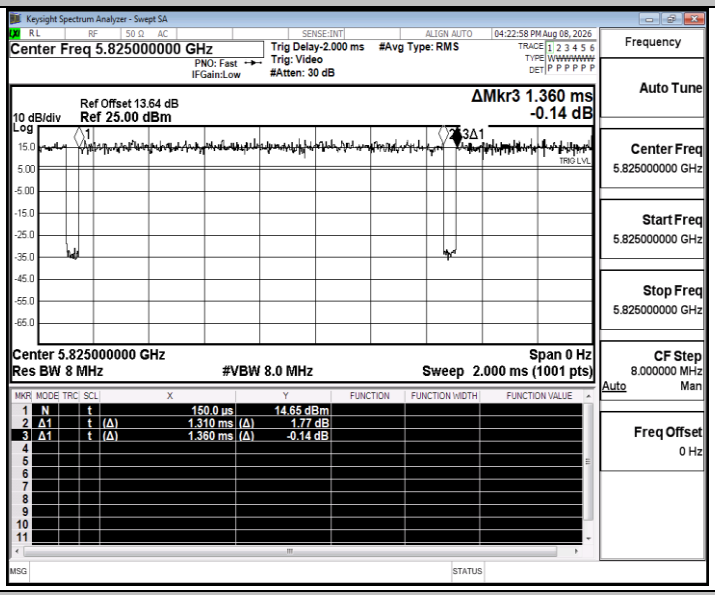


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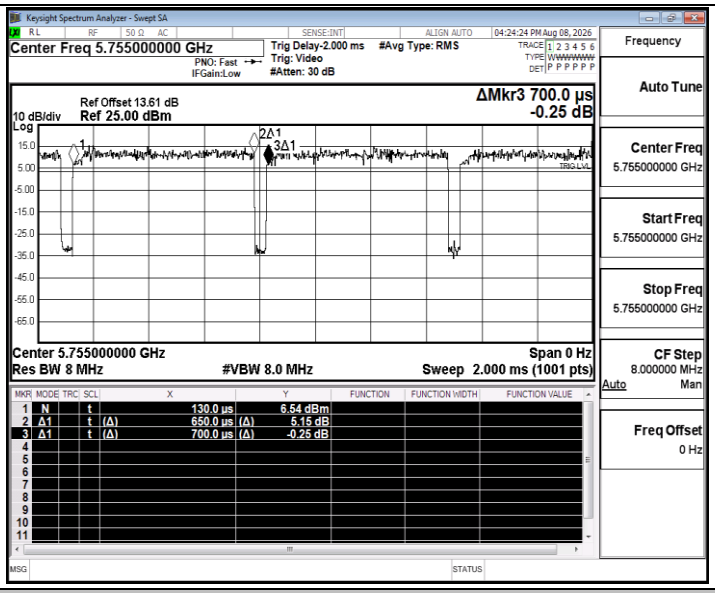

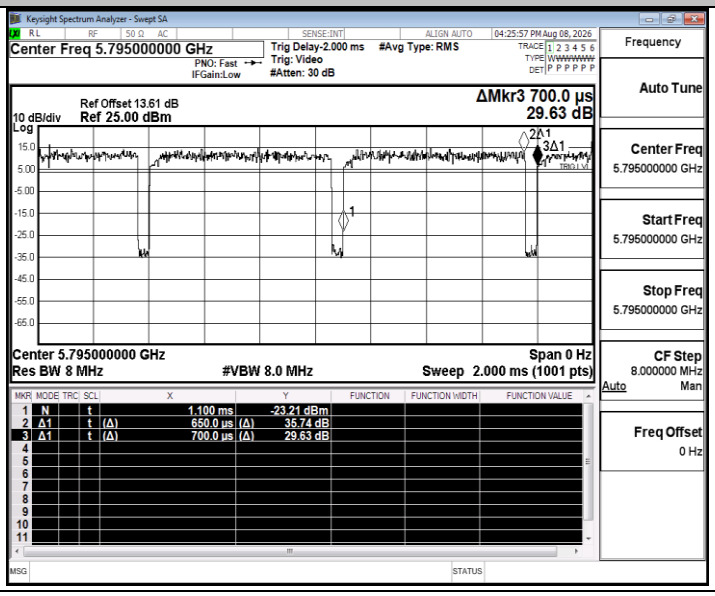
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