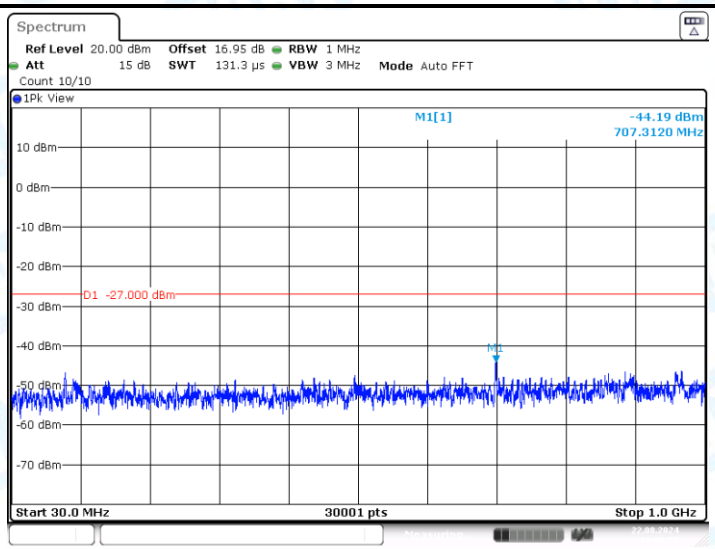
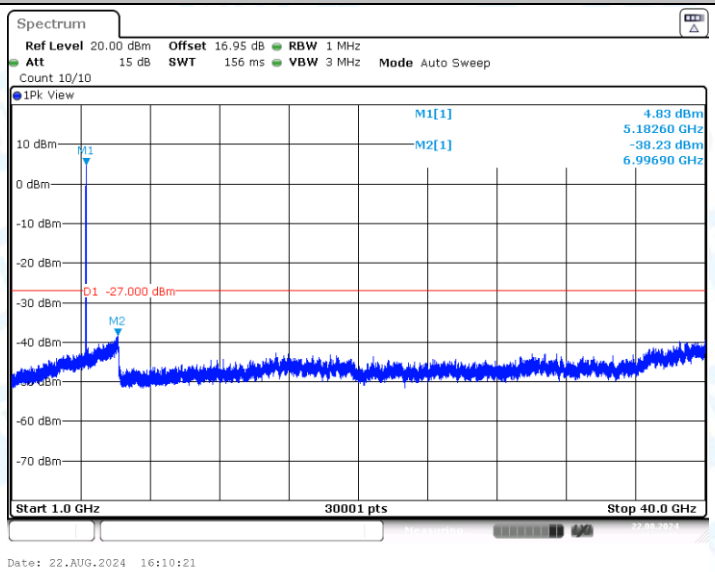
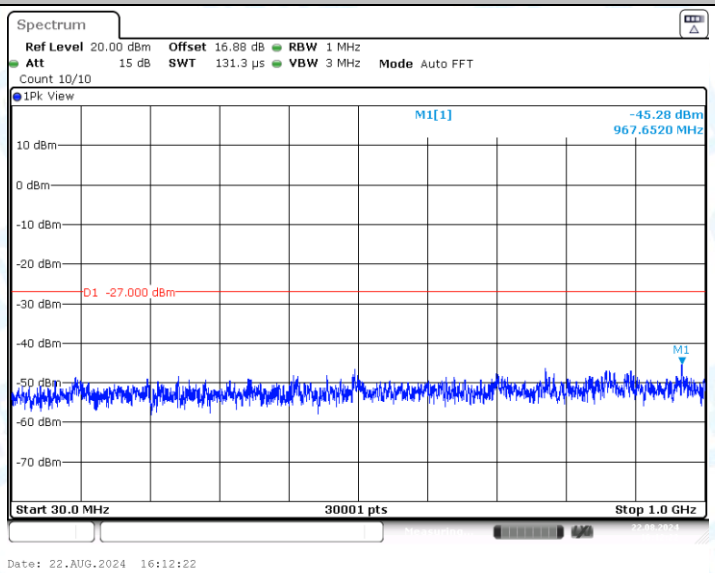


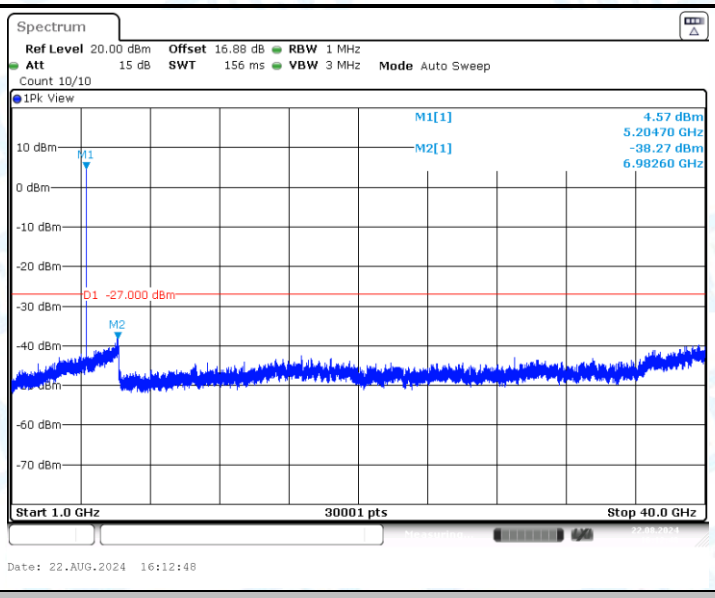

11N20SISO_Ant1_5180_30~1000



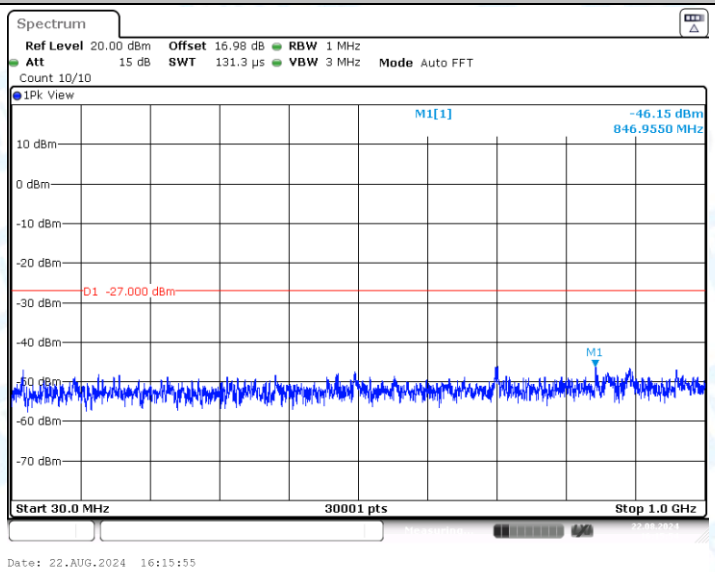

11N20SISO_Ant1_5180_1000~40000



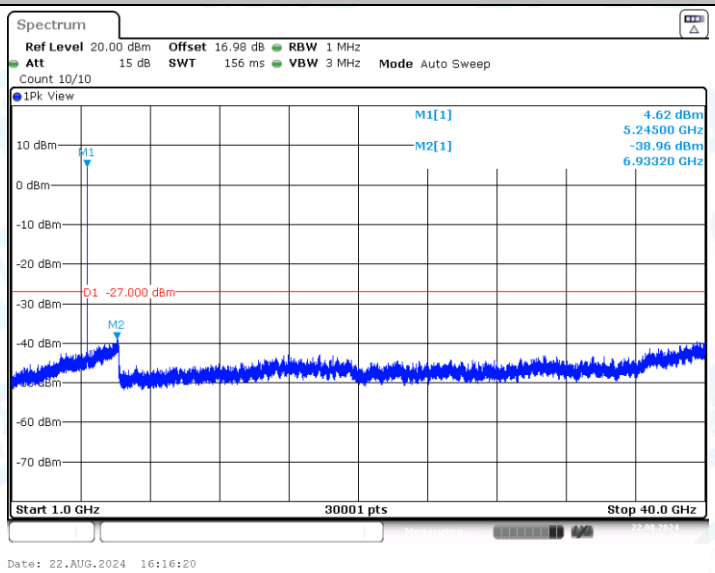

11N20SISO_Ant1_5200_30~1000




11N20SISO_Ant1_5200_1000~40000




11N20SISO_Ant1_5240_30~1000

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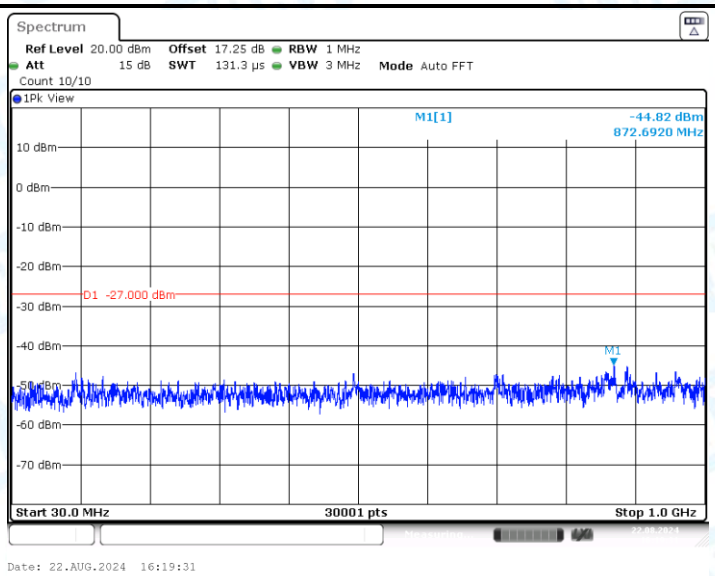


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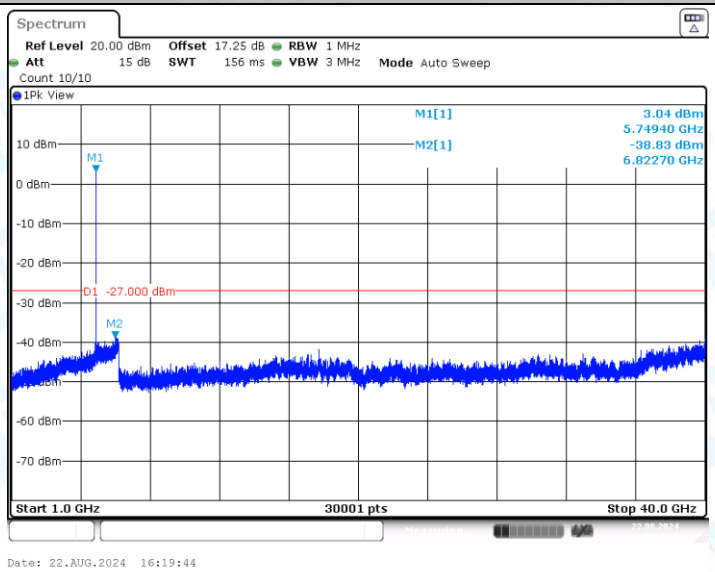
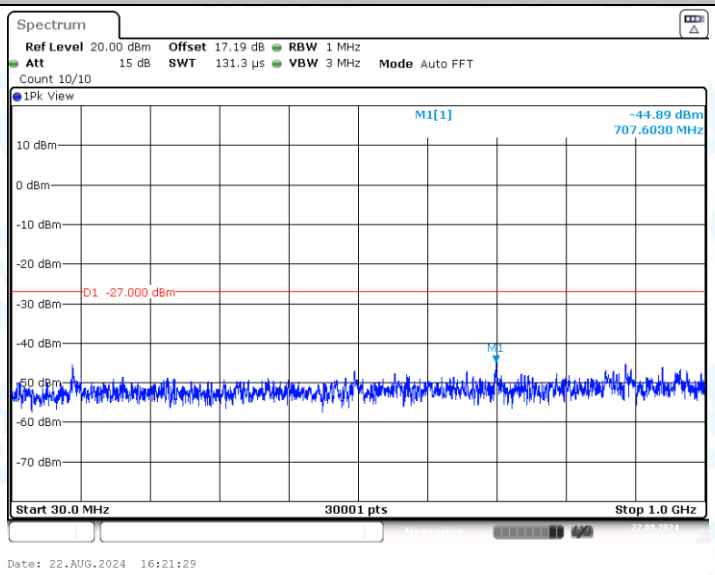
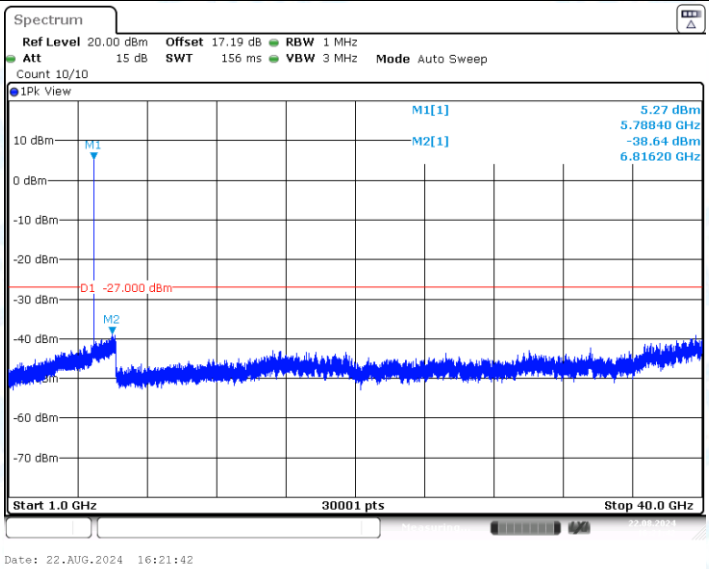


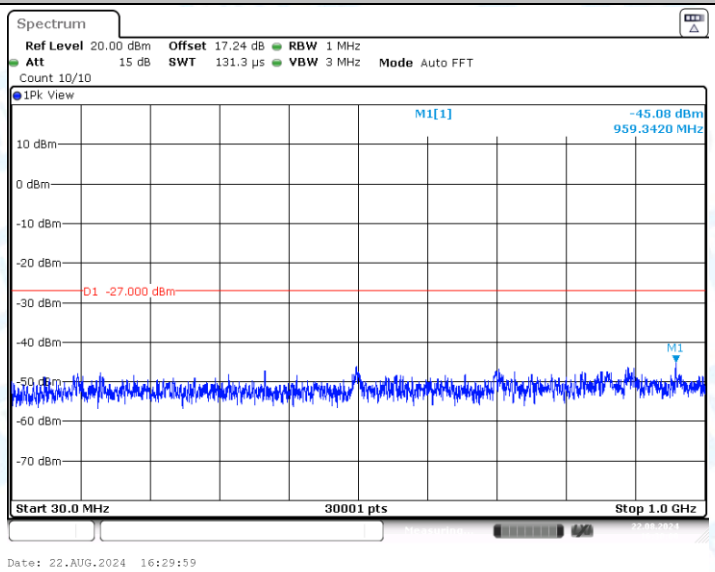

11N20SISO_Ant1_5745_1000~40000



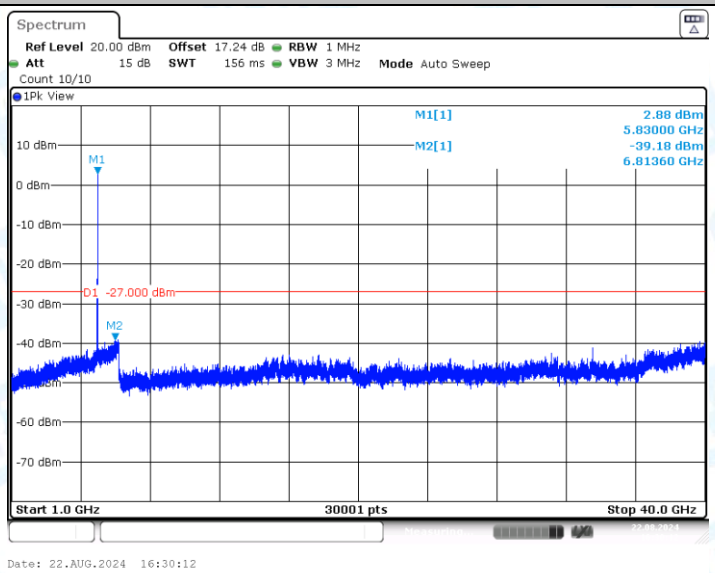

11N20SISO_Ant1_5785_30~1000



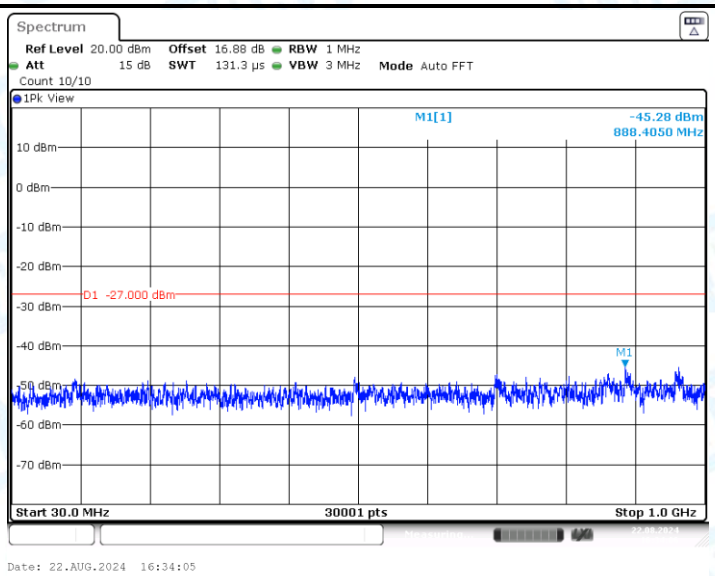

11N20SISO_Ant1_5785_1000~40000



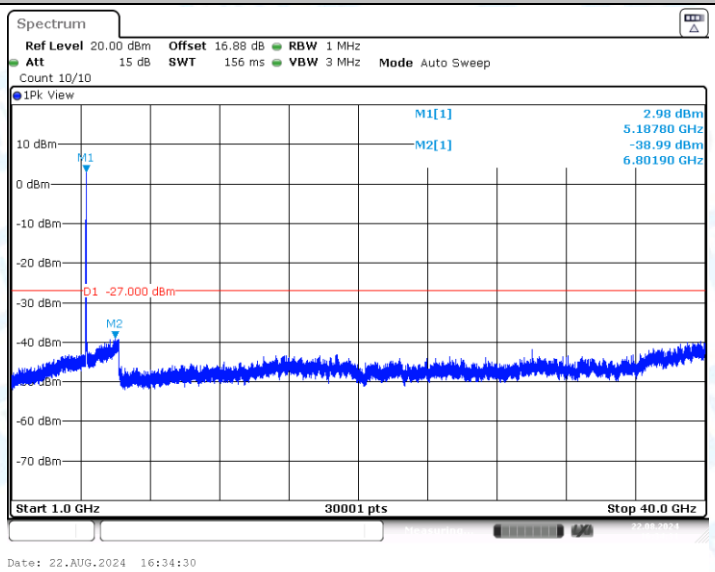

11N20SISO_Ant1_5825_30~1000



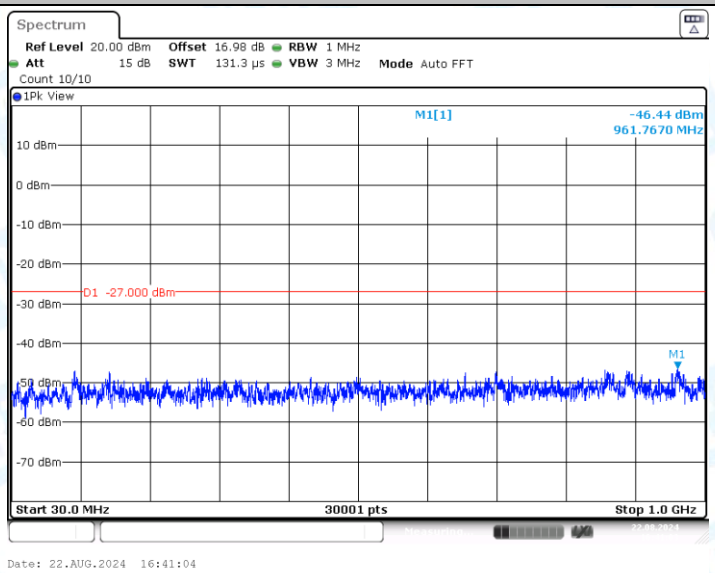

11N20SISO_Ant1_5825_1000~40000



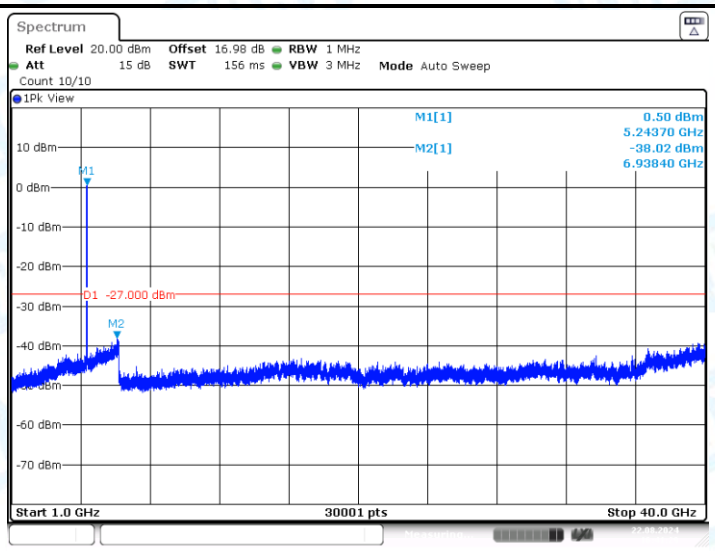

11N40SISO_Ant1_5190_30~1000



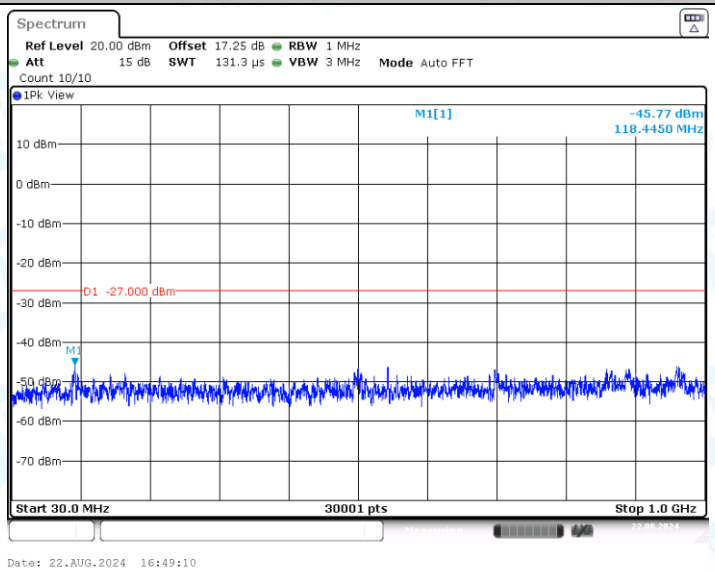

11N40SISO_Ant1_5190_1000~40000



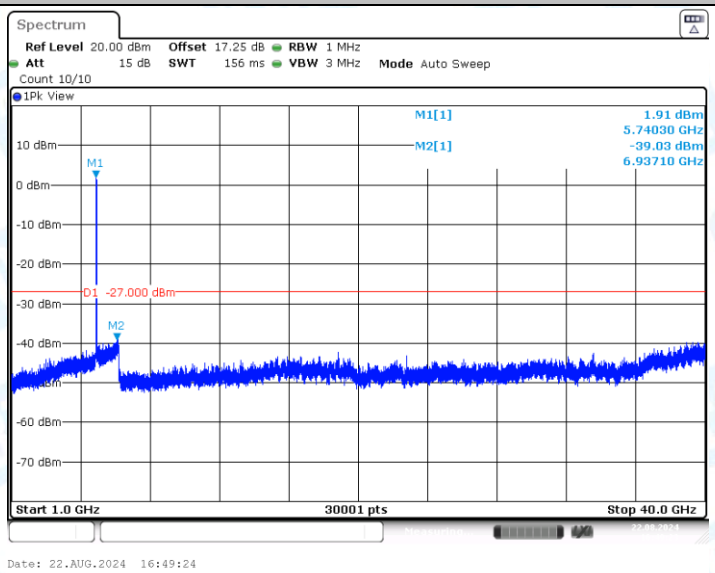

11N40SISO_Ant1_5230_30~1000



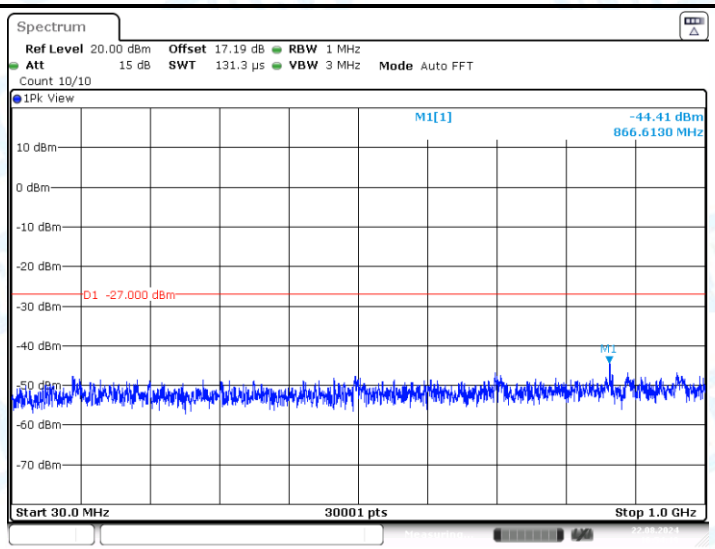

11N40SISO_Ant1_5230_1000~40000



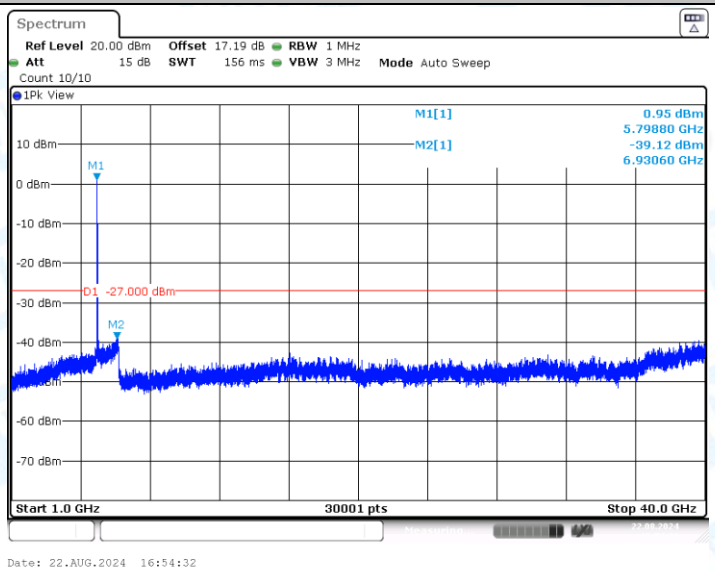

11N40SISO_Ant1_5755_30~1000



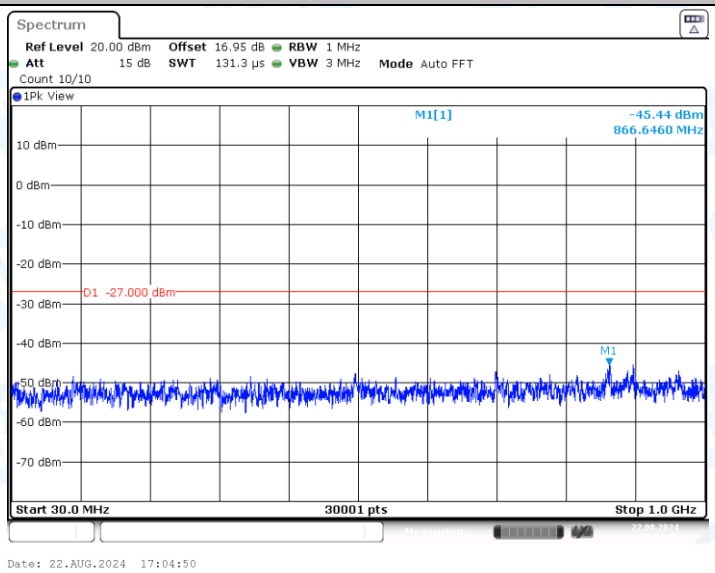

11N40SISO_Ant1_5755_1000~40000



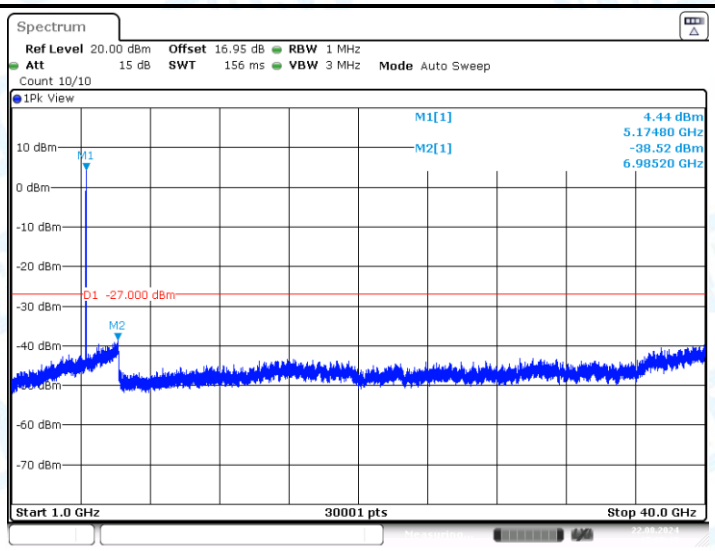

11N40SISO_Ant1_5795_30~1000



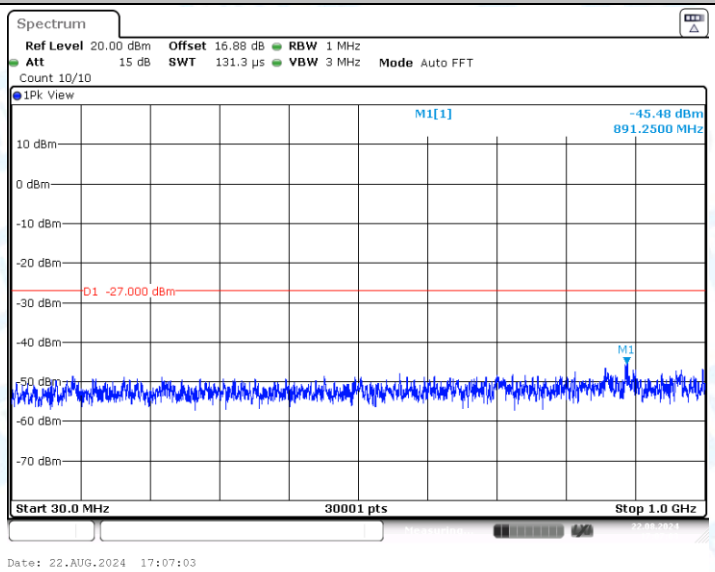

11N40SISO_Ant1_5795_1000~40000



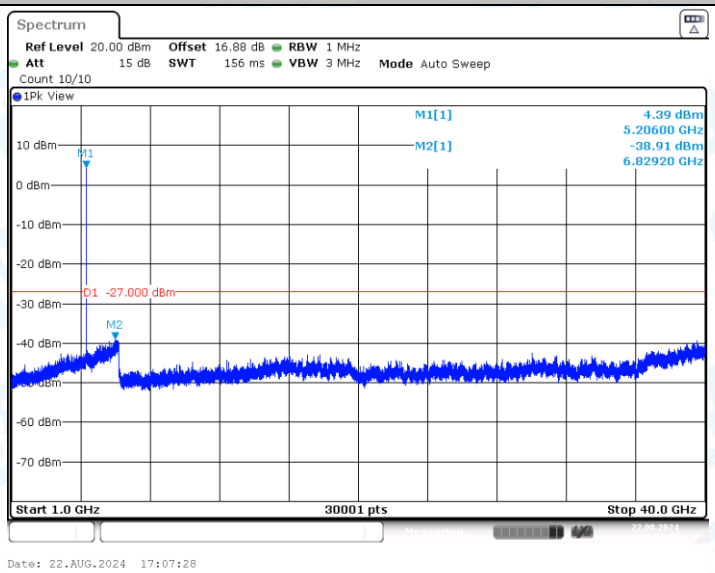

11AC20SISO_Ant1_5180_30~1000



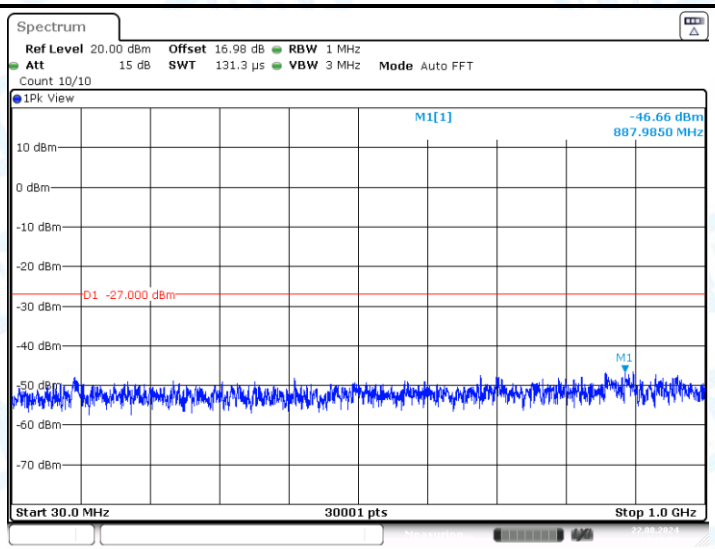

11AC20SISO_Ant1_5180_1000~40000



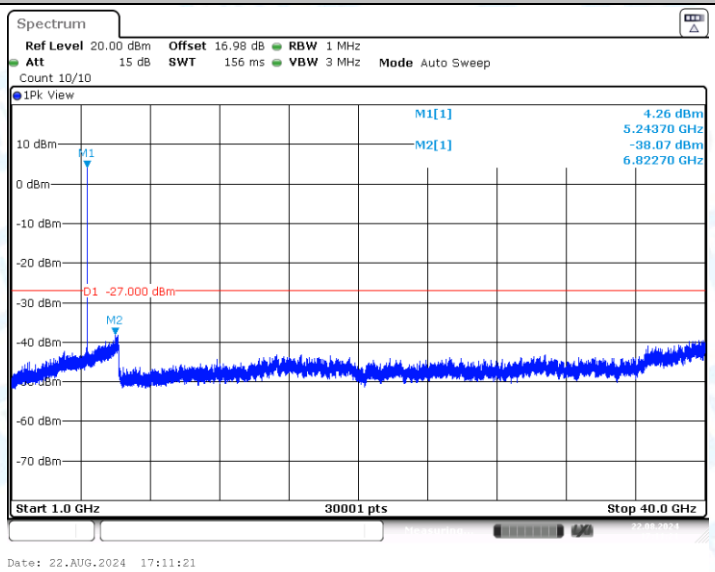

11AC20SISO_Ant1_5200_30~1000



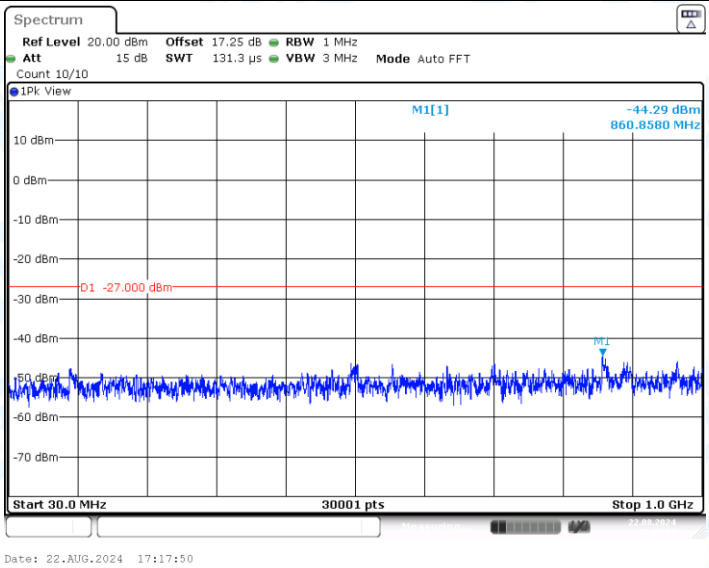

11AC20SISO_Ant1_5200_1000~40000



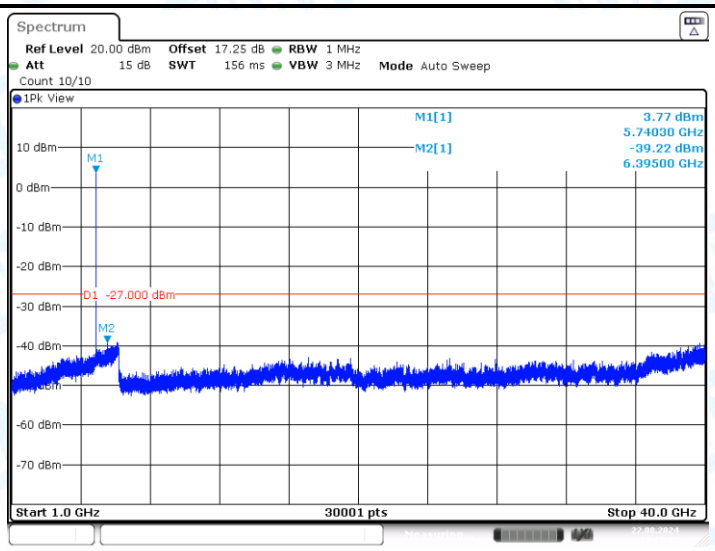

11AC20SISO_Ant1_5240_30~1000




11AC20SISO_Ant1_5240_1000~40000




11AC20SISO_Ant1_5745_30~1000

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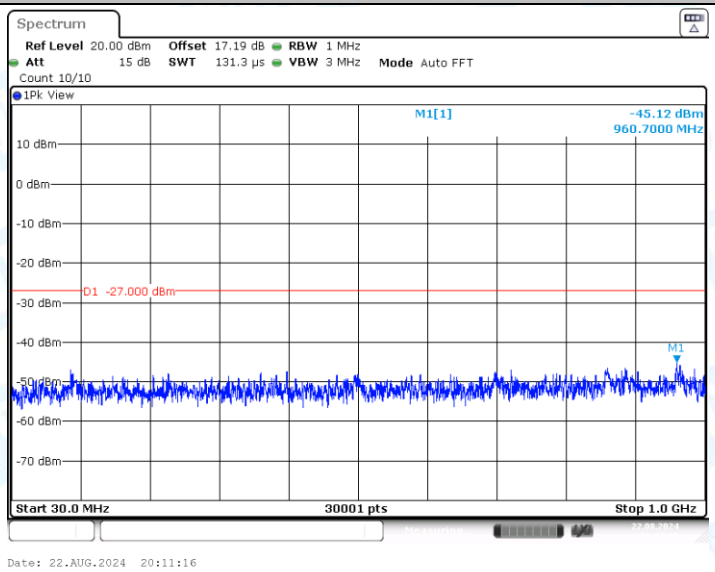
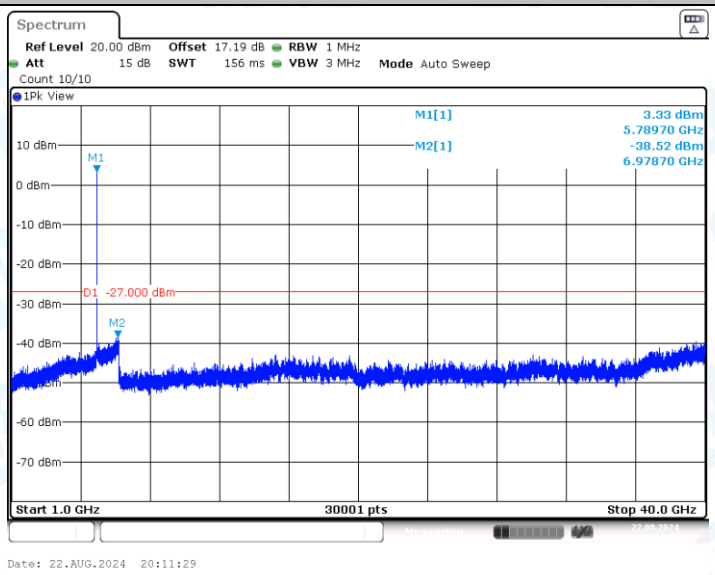
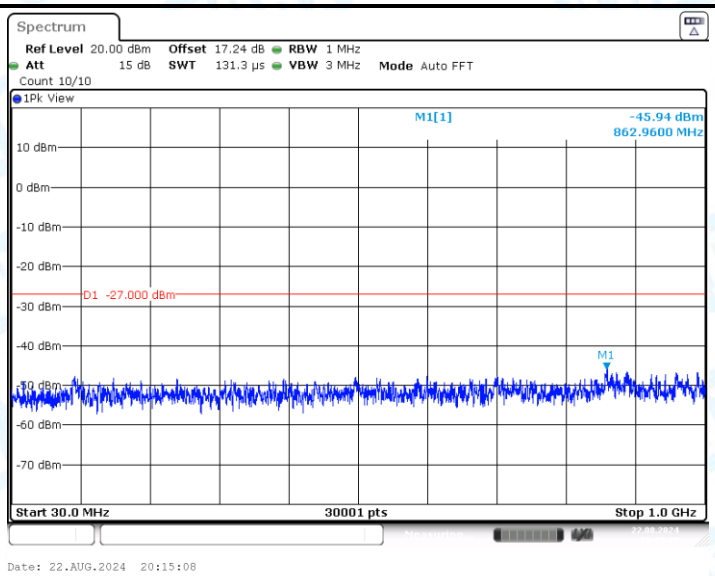



11AC20SISO_Ant1_5785_30~1000




11AC20SISO_Ant1_5785_1000~40000

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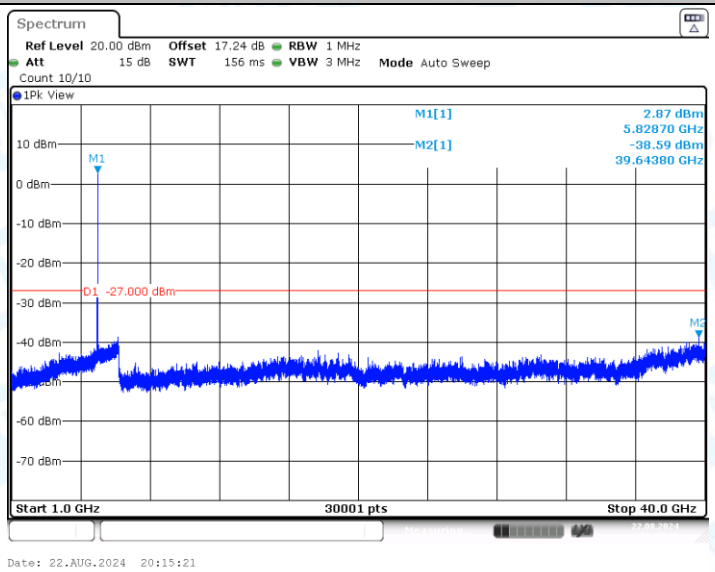
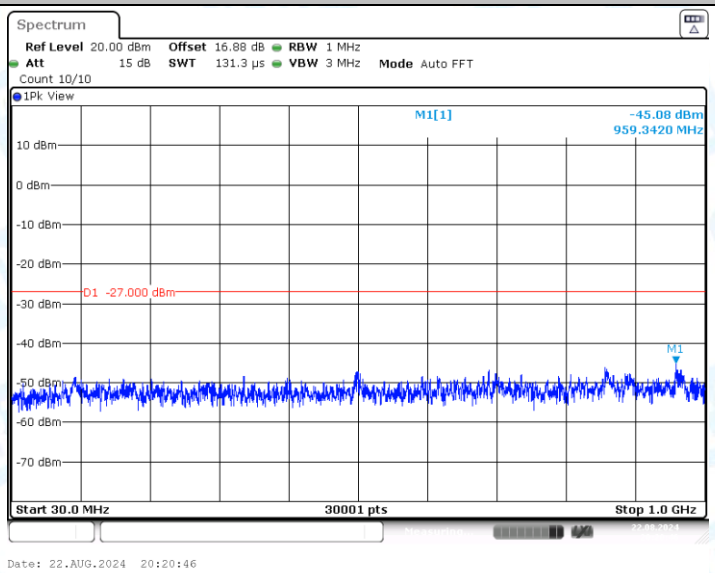
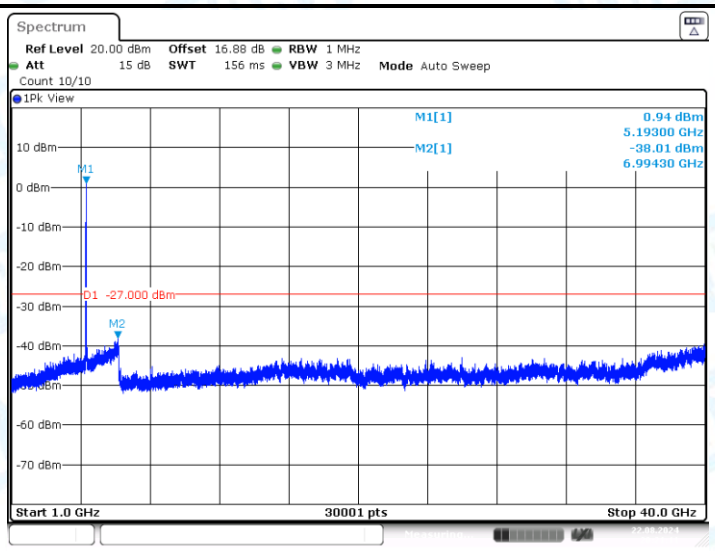


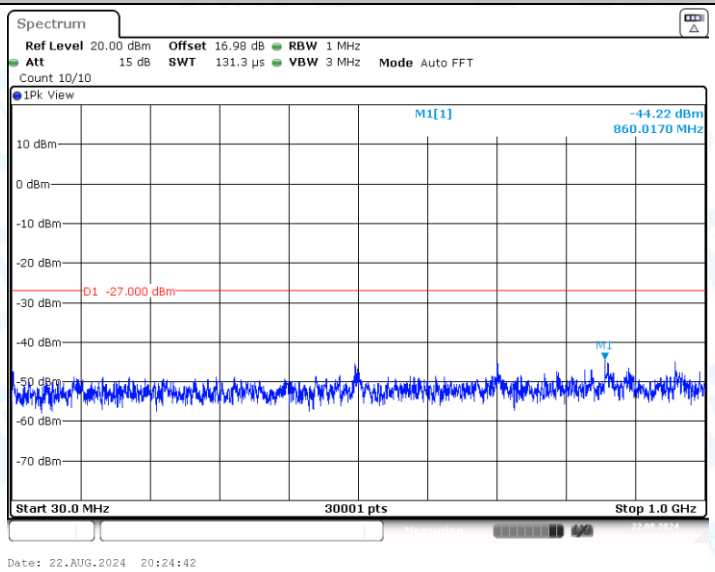

11AC20SISO_Ant1_5825_1000~40000



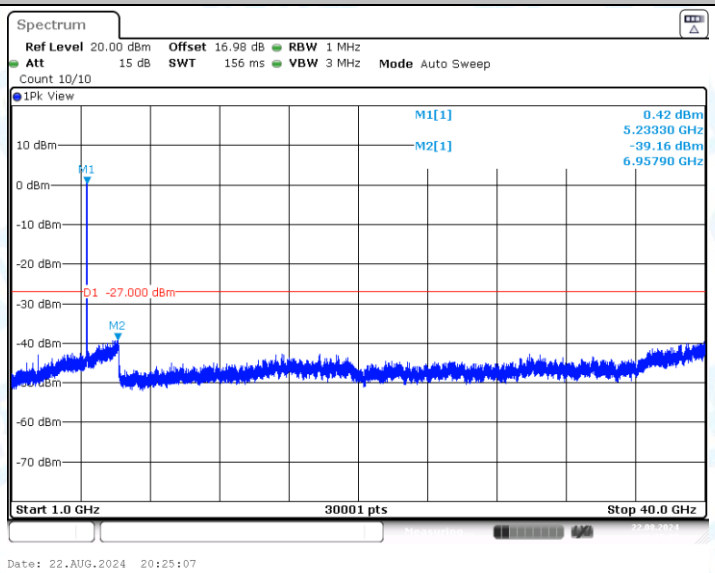

11AC40SISO_Ant1_5190_30~1000



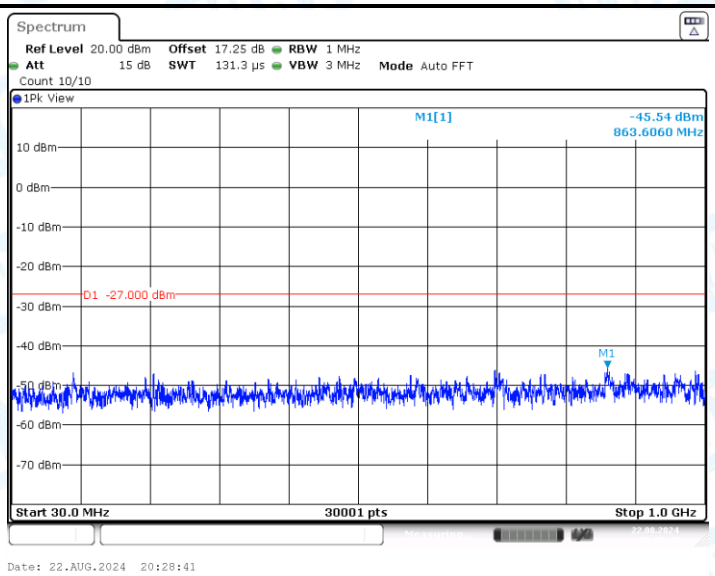

11AC40SISO_Ant1_5190_1000~40000



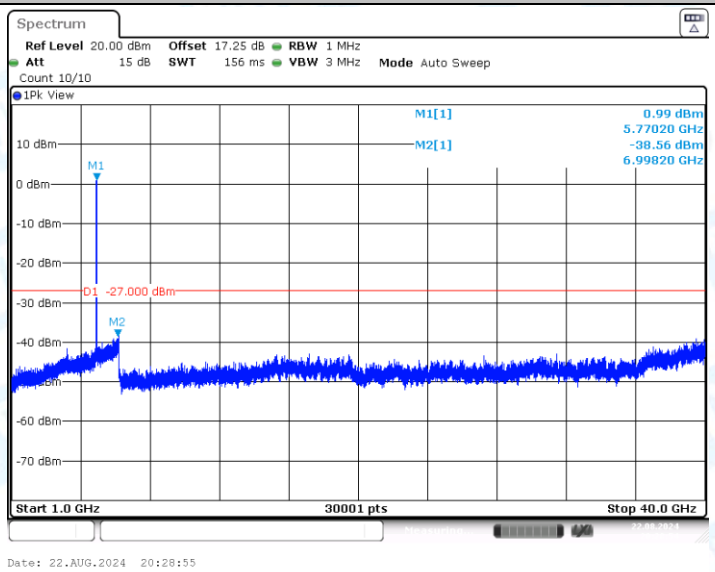

11AC40SISO_Ant1_5230_30~1000



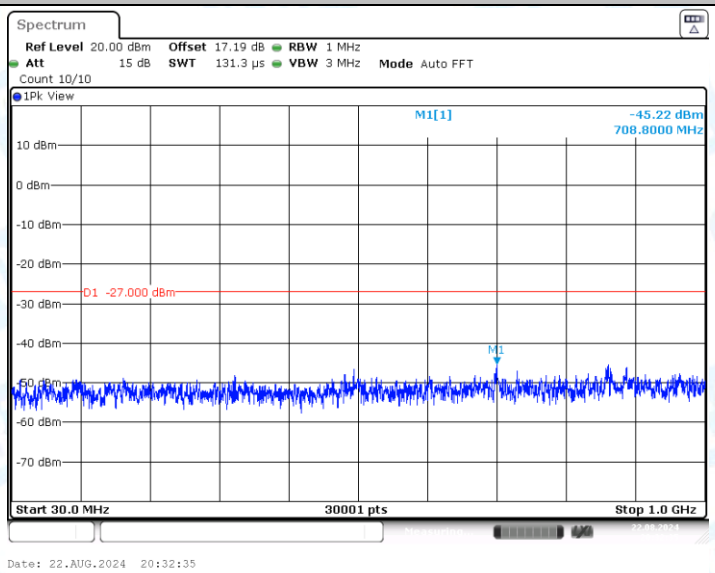

11AC40SISO_Ant1_5230_1000~40000



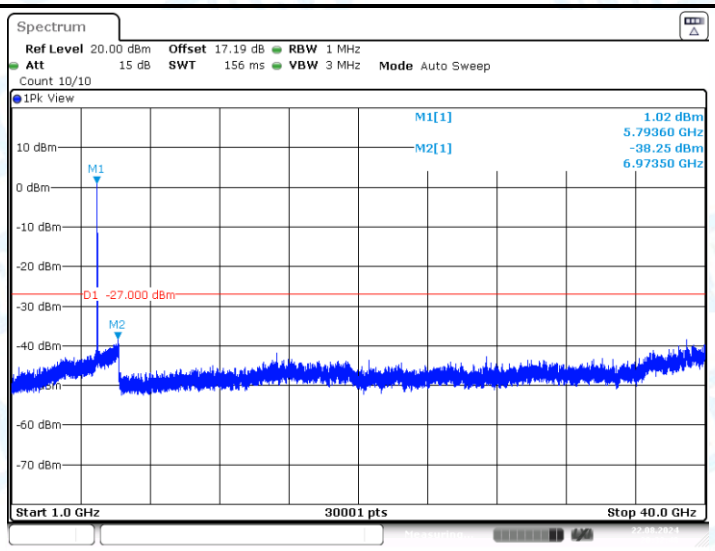

11AC40SISO_Ant1_5755_30~1000



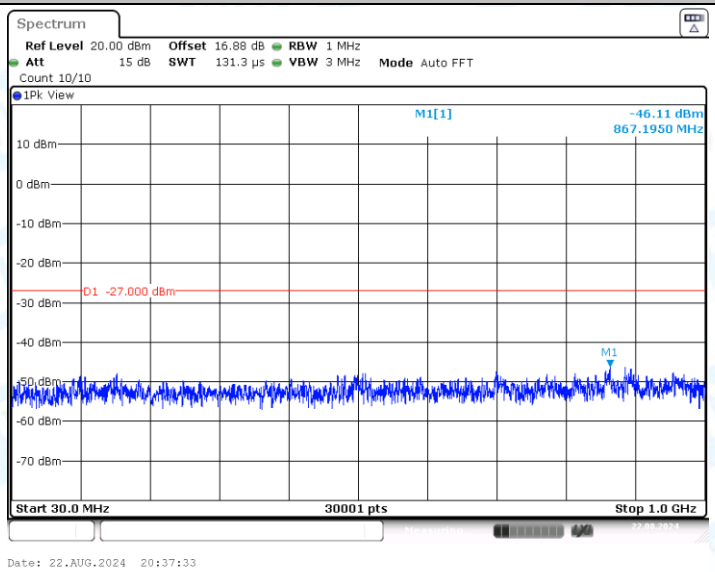

11AC40SISO_Ant1_5755_1000~40000



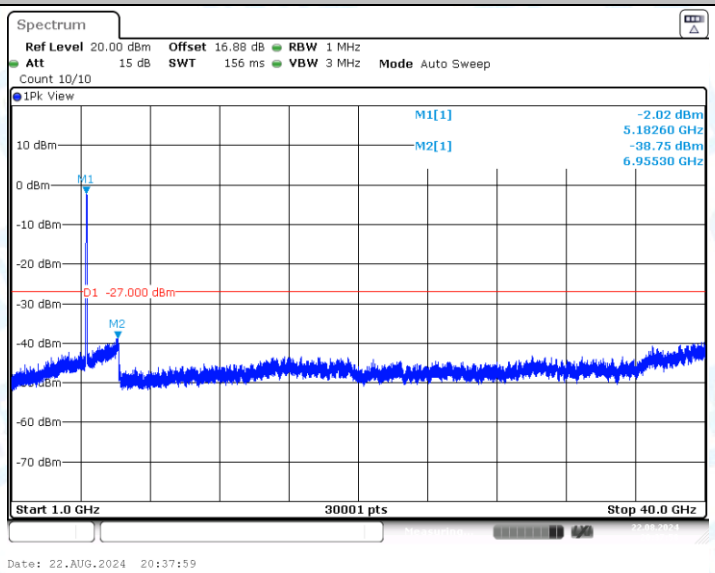

11AC40SISO_Ant1_5795_30~1000



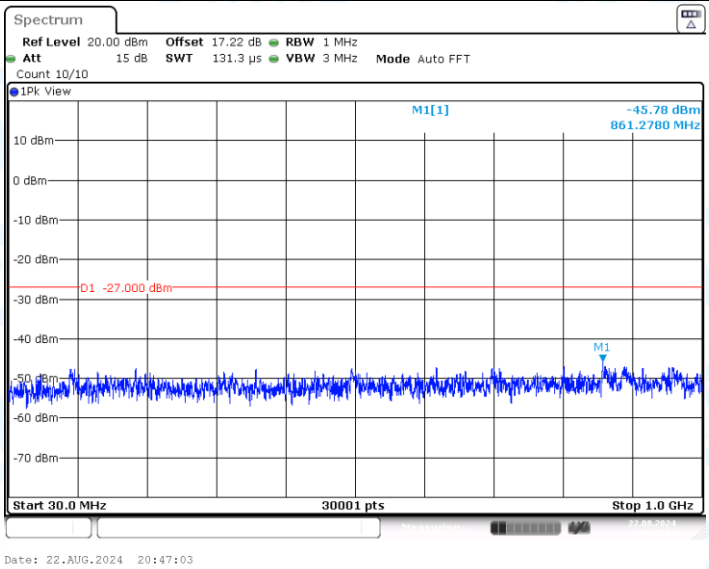

11AC40SISO_Ant1_5795_1000~40000



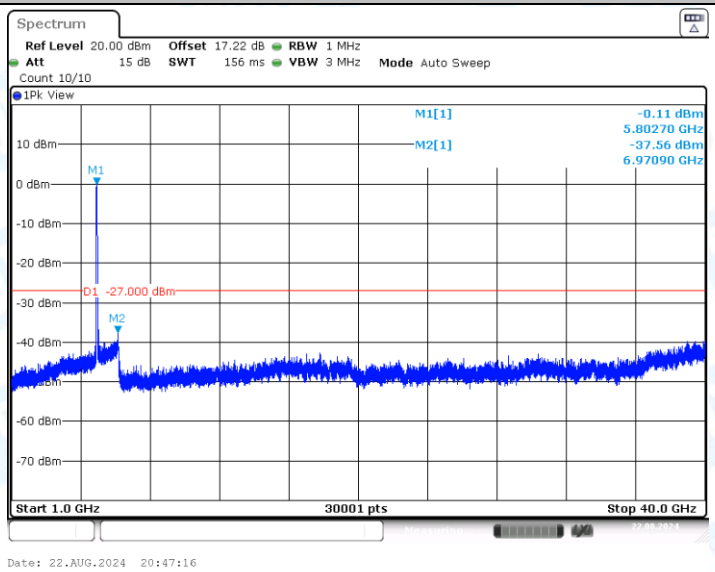

11AC80SISO_Ant1_5210_30~1000




11AC80SISO_Ant1_5210_1000~40000




11AC80SISO_Ant1_5775_30~1000




11AC80SISO_Ant1_5775_1000~40000

# 9. Frequency Stability

## 9.1.Test Result

| Voltage | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Test Mode | Antenna | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| 11A | Ant1 | 5180 | NV | NT | -40000.00 | -7.722008 | 20 | PASS |
| | | | LV | NT | -40000.00 | -7.722008 | 20 | PASS |
| | | | HV | NT | -20000.00 | -3.861004 | 20 | PASS |
| | | 5200 | NV | NT | -40000.00 | -7.692308 | 20 | PASS |
| | | | LV | NT | -40000.00 | -7.692308 | 20 | PASS |
| | | | HV | NT | -20000.00 | -3.846154 | 20 | PASS |
| | | 5240 | NV | NT | -40000.00 | -7.633588 | 20 | PASS |
| | | | LV | NT | -40000.00 | -7.633588 | 20 | PASS |
| | | | HV | NT | -40000.00 | -7.633588 | 20 | PASS |
| | | 5745 | NV | NT | -40000.00 | -6.962576 | 20 | PASS |
| | | | LV | NT | -40000.00 | -6.962576 | 20 | PASS |
| | | | HV | NT | -40000.00 | -6.962576 | 20 | PASS |
| | | 5785 | NV | NT | -40000.00 | -6.914434 | 20 | PASS |
| | | | LV | NT | -40000.00 | -6.914434 | 20 | PASS |
| | | | HV | NT | -20000.00 | -3.457217 | 20 | PASS |
| | | 5825 | NV | NT | -40000.00 | -6.866953 | 20 | PASS |
| | | | LV | NT | -40000.00 | -6.866953 | 20 | PASS |
| | | | HV | NT | -40000.00 | -6.866953 | 20 | PASS |
| 11N40SISO | Ant1 | 5190 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | -40000.00 | -7.707129 | 20 | PASS |
| | | | HV | NT | -40000.00 | -7.707129 | 20 | PASS |
| | | 5230 | NV | NT | -40000.00 | -7.648184 | 20 | PASS |
| | | | LV | NT | -80000.00 | -15.296367 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | 5755 | NV | NT | -40000.00 | -6.950478 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | -40000.00 | -6.950478 | 20 | PASS |
| | | 5795 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | -40000.00 | -6.902502 | 20 | PASS |
| | | | HV | NT | -40000.00 | -6.902502 | 20 | PASS |
| 11AC80SISO | Ant1 | 5210 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | HV | NT | -80000.00 | -15.355086 | 20 | PASS |
| | | 5775 | NV | NT | 0.00 | 0.000000 | 20 | PASS |
| | | | LV | NT | 80000.00 | 13.852814 | 20 | PASS |
| | | | HV | NT | 0.00 | 0.000000 | 20 | PASS |

| Temperature | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Test Mode | Antenna | Channel | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| 11A | Ant1 | 5180 | NV | 0 | -40000.00 | -7.722008 | 20 | PASS |
| | | | NV | 10 | -40000.00 | -7.722008 | 20 | PASS |
| | | | NV | 20 | -40000.00 | -7.722008 | 20 | PASS |
| | | | NV | 30 | -40000.00 | -7.722008 | 20 | PASS |
| | | | NV | 45 | -20000.00 | -3.861004 | 20 | PASS |
| | | 5200 | NV | 0 | -40000.00 | -7.692308 | 20 | PASS |
| | | | NV | 10 | -40000.00 | -7.692308 | 20 | PASS |
| | | | NV | 20 | -40000.00 | -7.692308 | 20 | PASS |
| | | | NV | 30 | -40000.00 | -7.692308 | 20 | PASS |
| | | | NV | 45 | -20000.00 | -3.846154 | 20 | PASS |
| | | 5240 | NV | 0 | -40000.00 | -7.633588 | 20 | PASS |
| | | | NV | 10 | -40000.00 | -7.633588 | 20 | PASS |
| | | | NV | 20 | -40000.00 | -7.633588 | 20 | PASS |
| | | | NV | 30 | -40000.00 | -7.633588 | 20 | PASS |
| | | | NV | 45 | -40000.00 | -7.633588 | 20 | PASS |
| | | 5745 | NV | 0 | -40000.00 | -6.962576 | 20 | PASS |
| | | | NV | 10 | -40000.00 | -6.962576 | 20 | PASS |
| | | | NV | 20 | -40000.00 | -6.962576 | 20 | PASS |
| | | | NV | 30 | -40000.00 | -6.962576 | 20 | PASS |
| | | | NV | 45 | -40000.00 | -6.962576 | 20 | PASS |
| | | 5785 | NV | 0 | -40000.00 | -6.914434 | 20 | PASS |
| | | | NV | 10 | -40000.00 | -6.914434 | 20 | PASS |
| | | | NV | 20 | -40000.00 | -6.914434 | 20 | PASS |
| | | | NV | 30 | -40000.00 | -6.914434 | 20 | PASS |
| | | | NV | 45 | -20000.00 | -3.457217 | 20 | PASS |
| | | 5825 | NV | 0 | -40000.00 | -6.866953 | 20 | PASS |
| | | | NV | 10 | -40000.00 | -6.866953 | 20 | PASS |
| | | | NV | 20 | -40000.00 | -6.866953 | 20 | PASS |
| | | | NV | 30 | -40000.00 | -6.866953 | 20 | PASS |
| | | | NV | 45 | -40000.00 | -6.866953 | 20 | PASS |
| 11N40SISO | Ant1 | 5190 | NV | 0 | -40000.00 | -7.707129 | 20 | PASS |
| | | | NV | 10 | -40000.00 | -7.707129 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 45 | -40000.00 | -7.707129 | 20 | PASS |
| | | 5230 | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | -40000.00 | -7.648184 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | -40000.00 | -7.648184 | 20 | PASS |
| | | | NV | 45 | -40000.00 | -7.648184 | 20 | PASS |
| | | 5755 | NV | 0 | -40000.00 | -6.950478 | 20 | PASS |

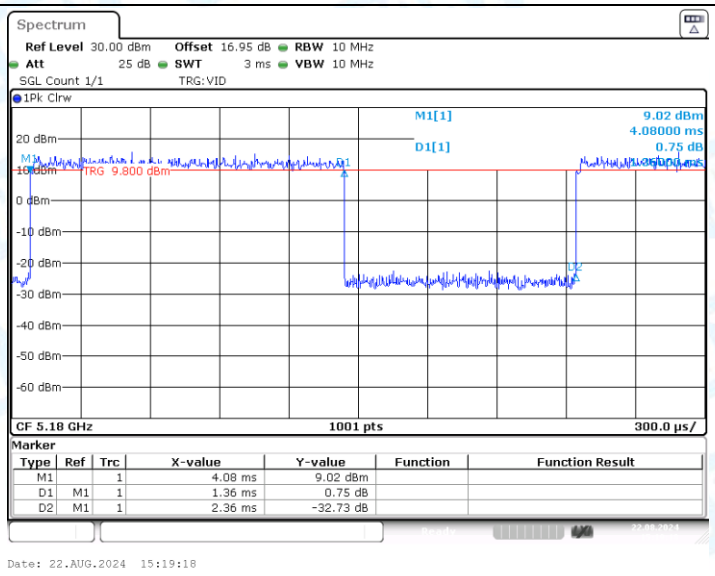
| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | NV | 10 | -40000.00 | -6.950478 | 20 | PASS |
| | | | NV | 20 | -40000.00 | -6.950478 | 20 | PASS |
| | | | NV | 30 | -40000.00 | -6.950478 | 20 | PASS |
| | | | NV | 45 | 0.00 | 0.000000 | 20 | PASS |
| | | 5795 | NV | 0 | -40000.00 | -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 | 45 | -40000.00 | -6.902502 | 20 | PASS |
| 11AC80SISO | Ant1 | 5210 | NV | 0 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 45 | 0.00 | 0.000000 | 20 | PASS |
| | | 5775 | NV | 0 | -80000.00 | -13.852814 | 20 | PASS |
| | | | NV | 10 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 20 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 30 | 0.00 | 0.000000 | 20 | PASS |
| | | | NV | 45 | 0.00 | 0.000000 | 20 | PASS |

# 10. Duty Cycle

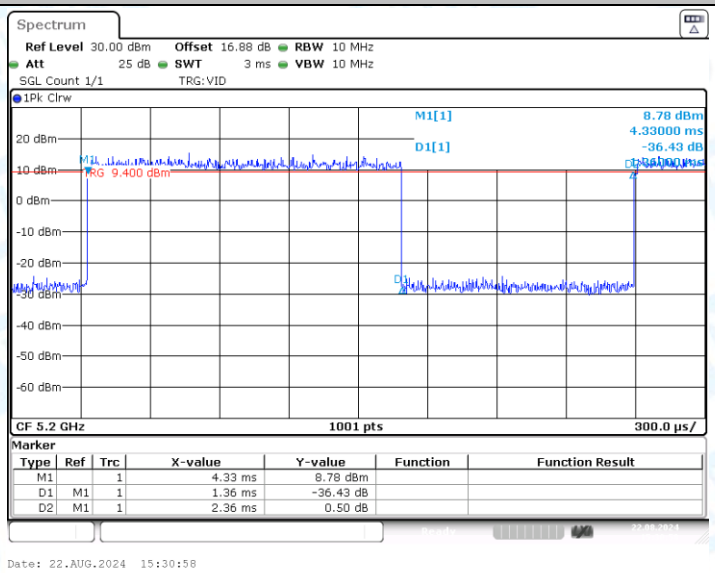
## 10.1.Test Result

| TestMode | Antenna | Channel | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] | Limit | Verdict |
|---|---|---|---|---|---|---|---|
| 11A | Ant1 | 5180 | 1.36 | 2.36 | 57.63 | --- | --- |
| | | 5200 | 1.36 | 2.36 | 57.63 | --- | --- |
| | | 5240 | 1.36 | 2.37 | 57.38 | --- | --- |
| | | 5745 | 1.36 | 2.37 | 57.38 | --- | --- |
| | | 5785 | 1.36 | 2.37 | 57.38 | --- | --- |
| | | 5825 | 1.36 | 2.37 | 57.38 | --- | --- |
| 11N20SISO | Ant1 | 5180 | 1.27 | 2.28 | 55.70 | --- | --- |
| | | 5200 | 1.28 | 2.28 | 56.14 | --- | --- |
| | | 5240 | 1.27 | 2.28 | 55.70 | --- | --- |
| | | 5745 | 1.28 | 2.28 | 56.14 | --- | --- |
| | | 5785 | 1.27 | 2.28 | 55.70 | --- | --- |
| | | 5825 | 1.27 | 2.28 | 55.70 | --- | --- |
| 11N40SISO | Ant1 | 5190 | 0.63 | 1.64 | 38.41 | --- | --- |
| | | 5230 | 0.63 | 1.64 | 38.41 | --- | --- |
| | | 5755 | 0.63 | 1.64 | 38.41 | --- | --- |
| | | 5795 | 0.63 | 1.64 | 38.41 | --- | --- |
| 11AC20SISO | Ant1 | 5180 | 1.28 | 2.28 | 56.14 | --- | --- |
| | | 5200 | 1.28 | 2.28 | 56.14 | --- | --- |
| | | 5240 | 1.28 | 2.28 | 56.14 | --- | --- |
| | | 5745 | 1.28 | 2.28 | 56.14 | --- | --- |
| | | 5785 | 1.28 | 2.29 | 55.90 | --- | --- |
| | | 5825 | 1.28 | 2.28 | 56.14 | --- | --- |
| 11AC40SISO | Ant1 | 5190 | 0.63 | 1.64 | 38.41 | --- | --- |
| | | 5230 | 0.64 | 1.64 | 39.02 | --- | --- |
| | | 5755 | 0.64 | 1.65 | 38.79 | --- | --- |
| | | 5795 | 0.63 | 1.64 | 38.41 | --- | --- |
| 11AC80SISO | Ant1 | 5210 | 0.31 | 1.32 | 23.48 | --- | --- |
| | | 5775 | 0.31 | 1.32 | 23.48 | --- | --- |

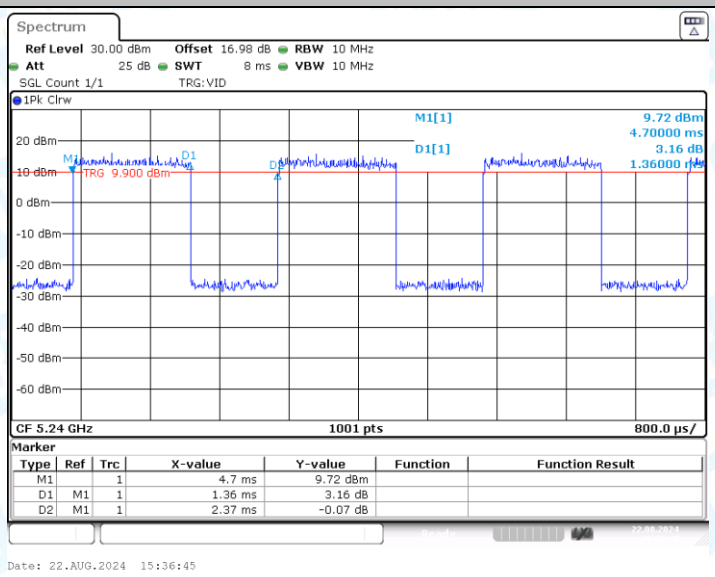
## 10.2.Test Graphs



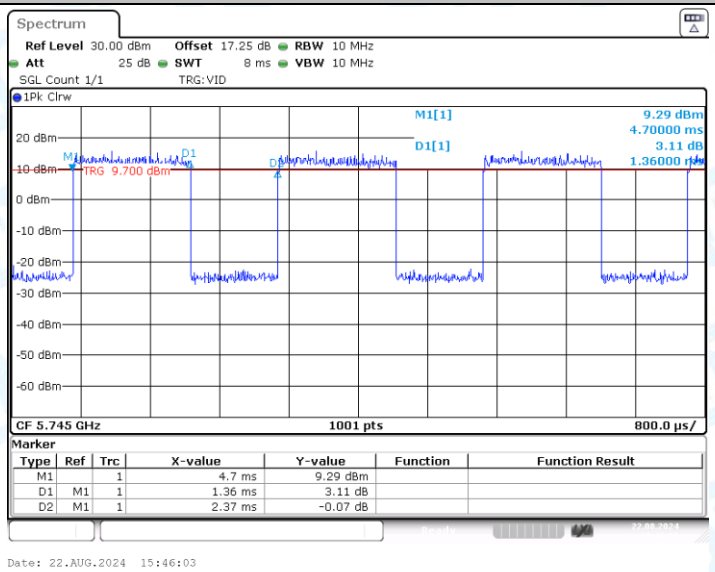

11A_Ant1_5180



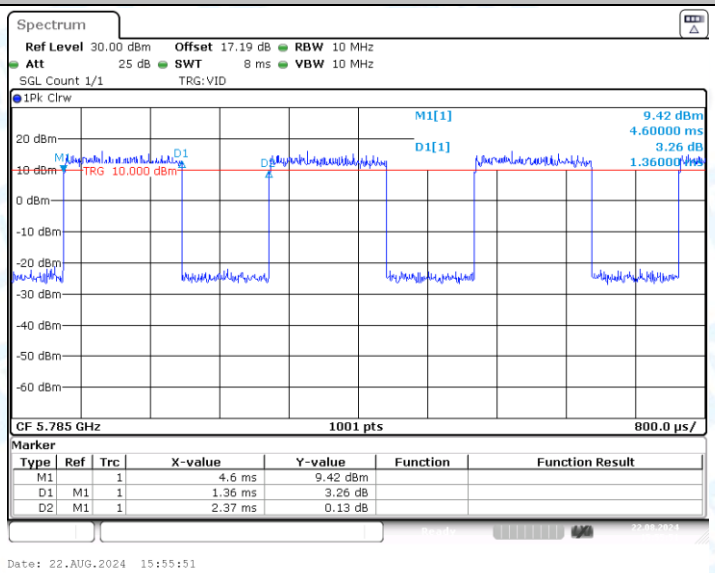

11A_Ant1_5200



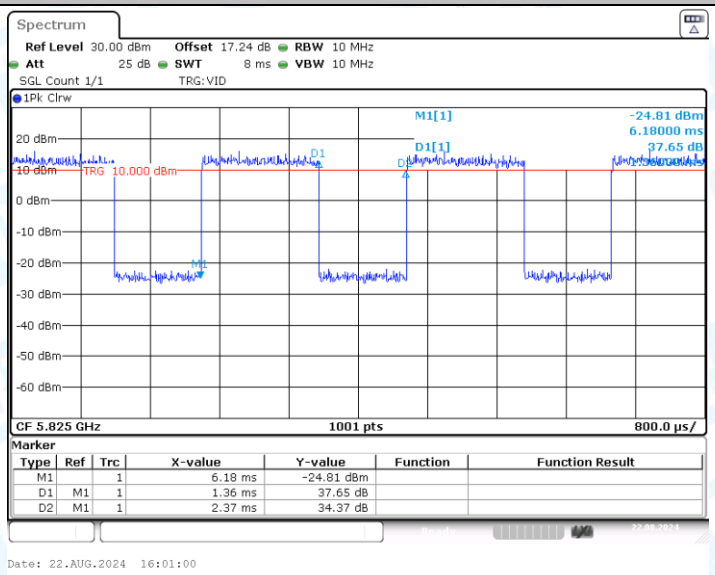
11A_Ant1_5240



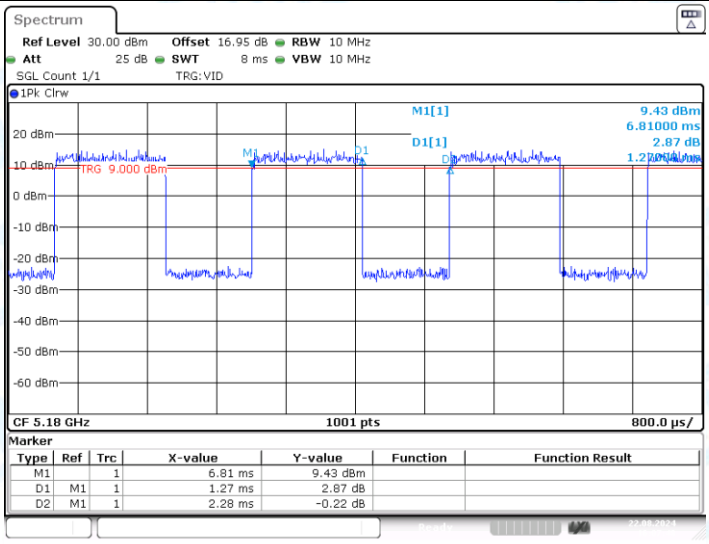

11A_Ant1_5745



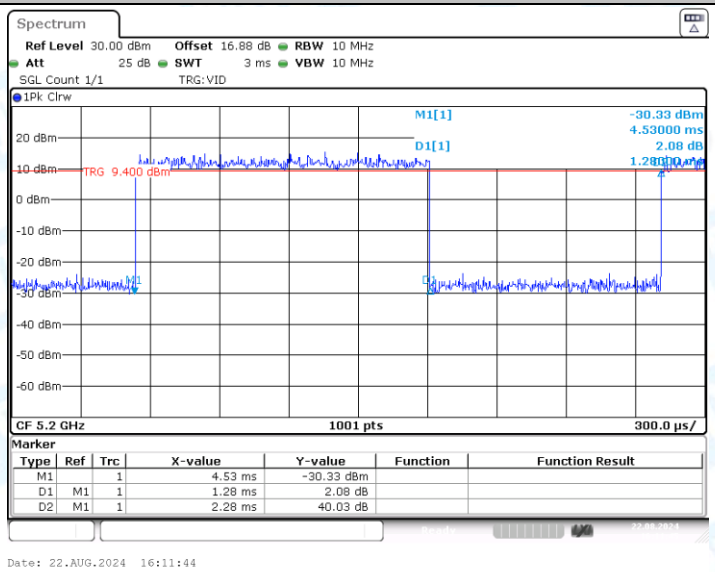

11A_Ant1_5785




11A_Ant1_5825




11N20SISO_Ant1_5180

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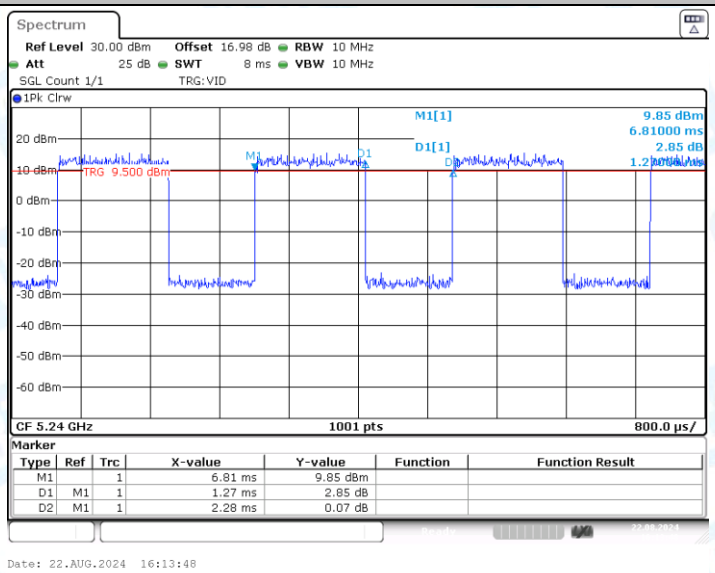
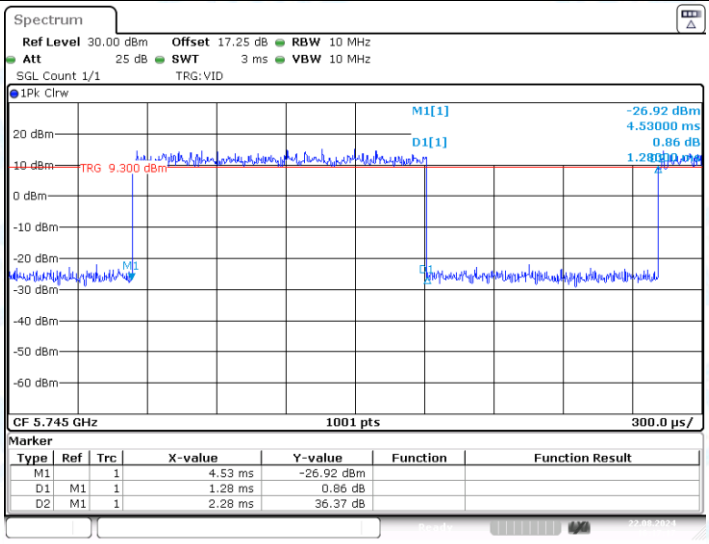
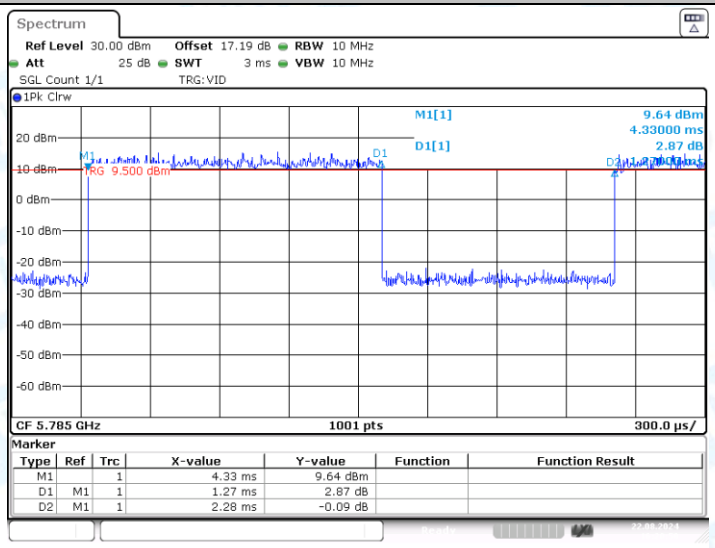


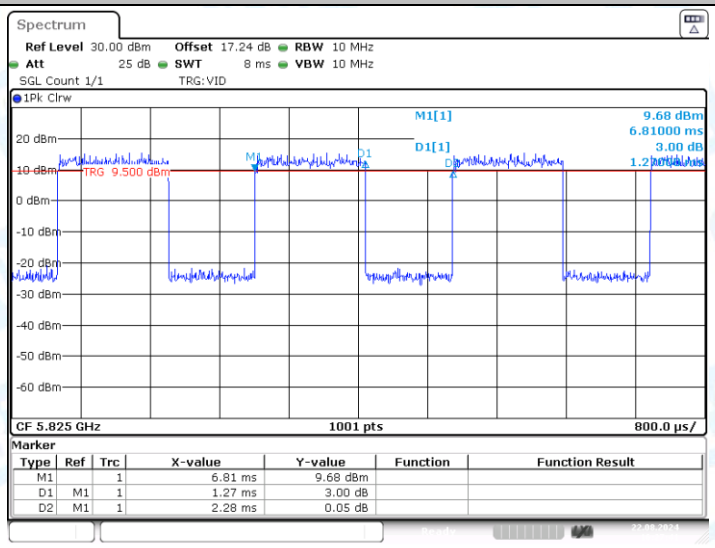

11N20SISO_Ant1_5240



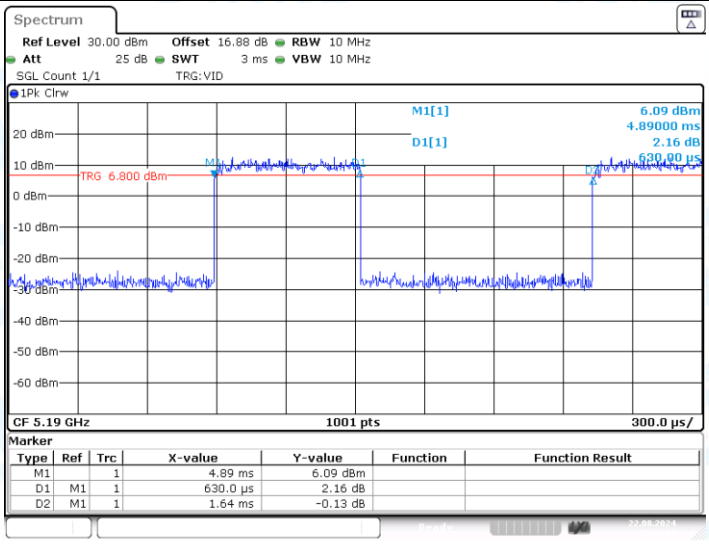

11N20SISO_Ant1_5745



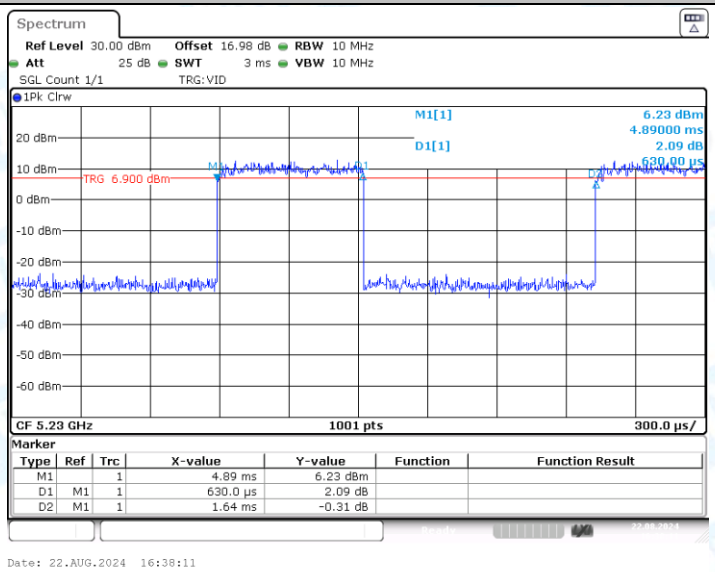

11N20SISO_Ant1_5785



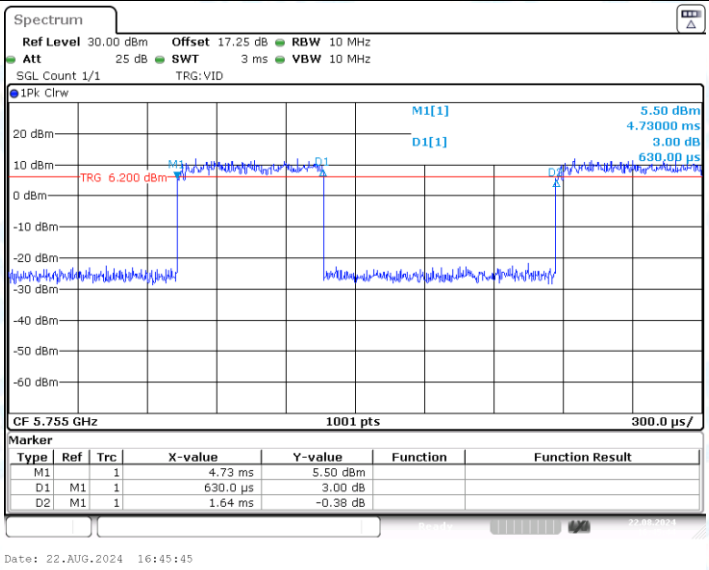

11N20SISO_Ant1_5825



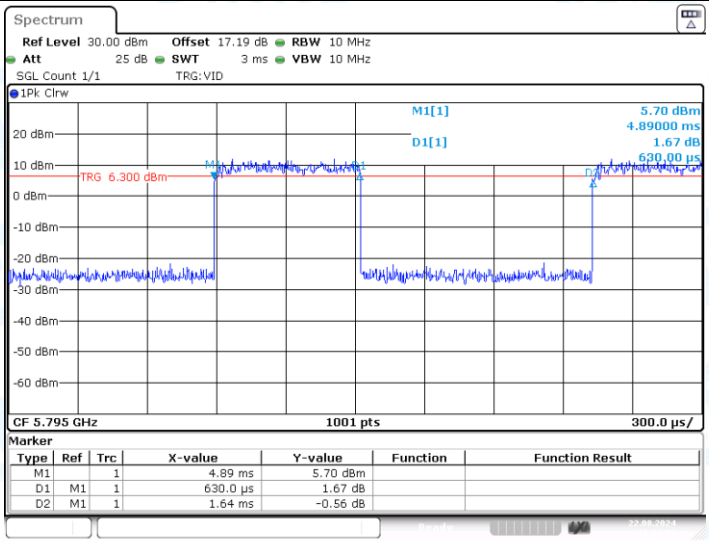

11N40SISO_Ant1_5190



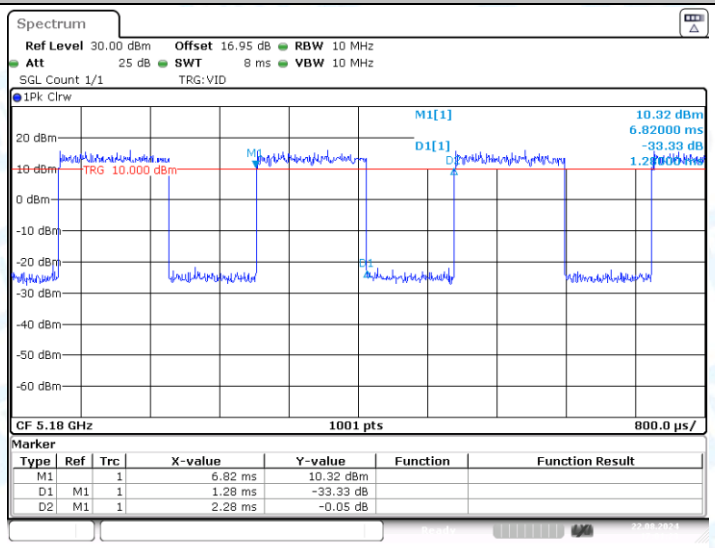

11N40SISO_Ant1_5230



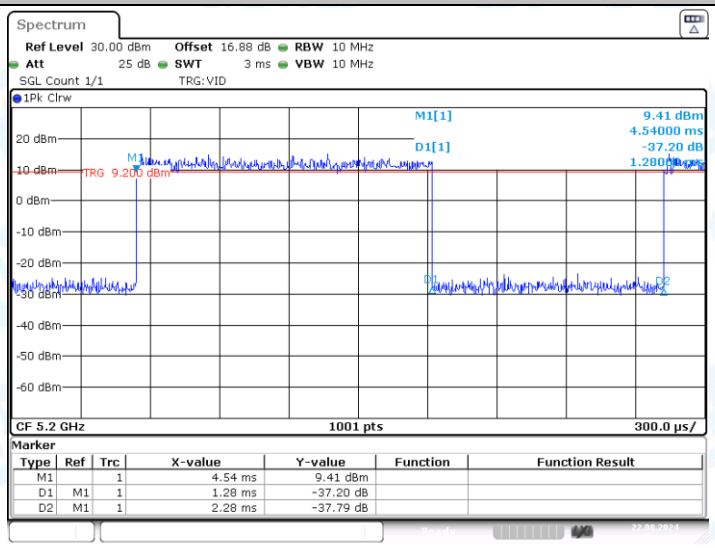

11N40SISO_Ant1_5755



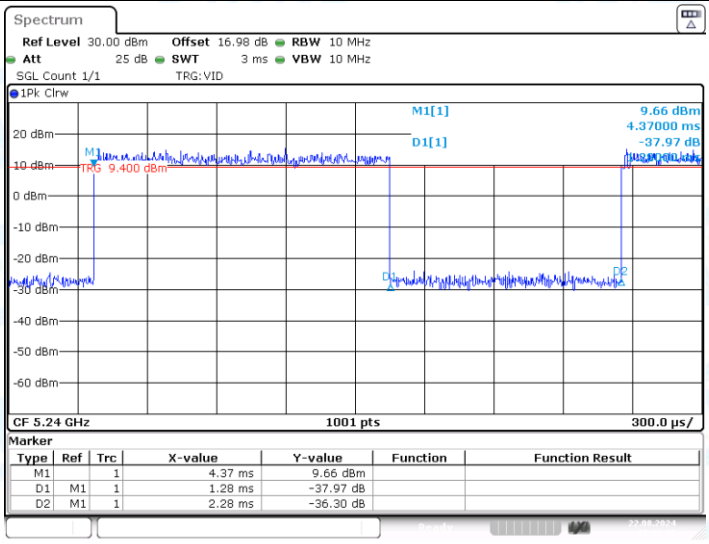

11N40SISO_Ant1_5795



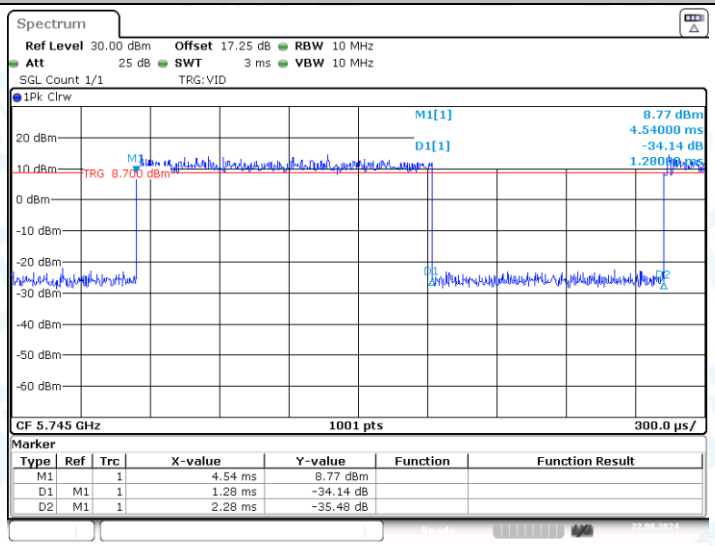

11AC20SISO_Ant1_5180




11AC20SISO_Ant1_5200




11AC20SISO_Ant1_5240

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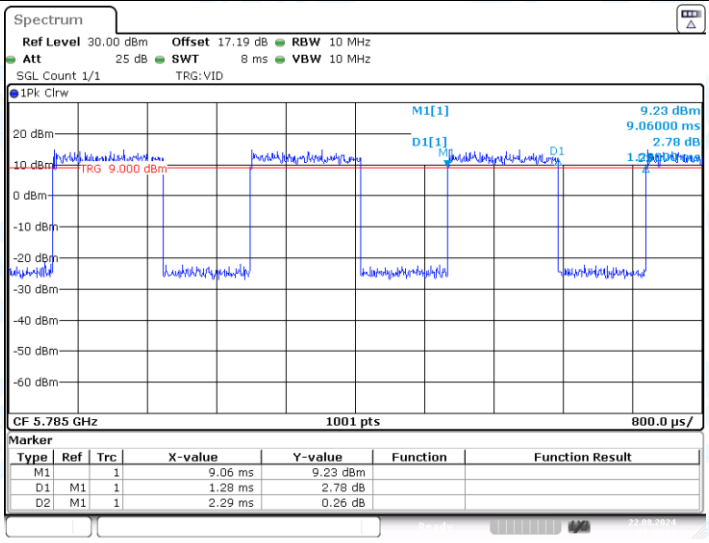
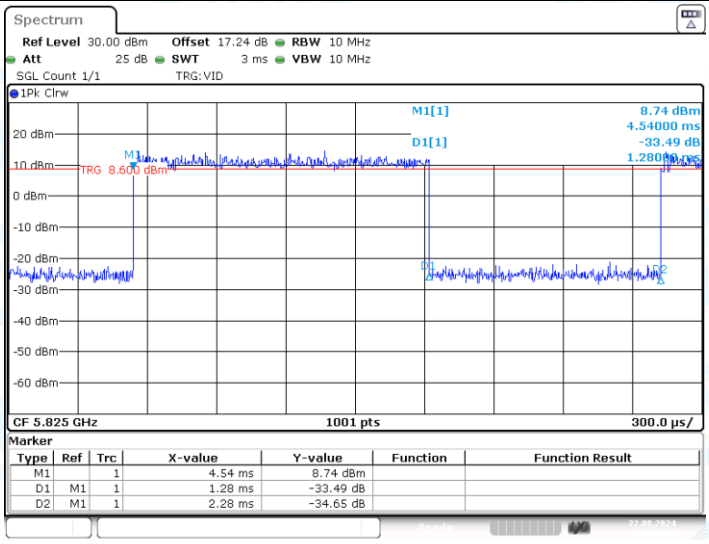



11AC20SISO_Ant1_5785

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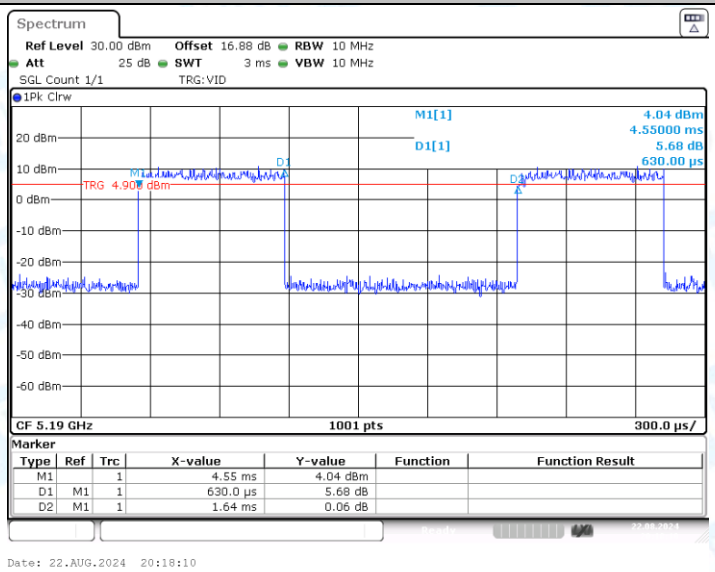


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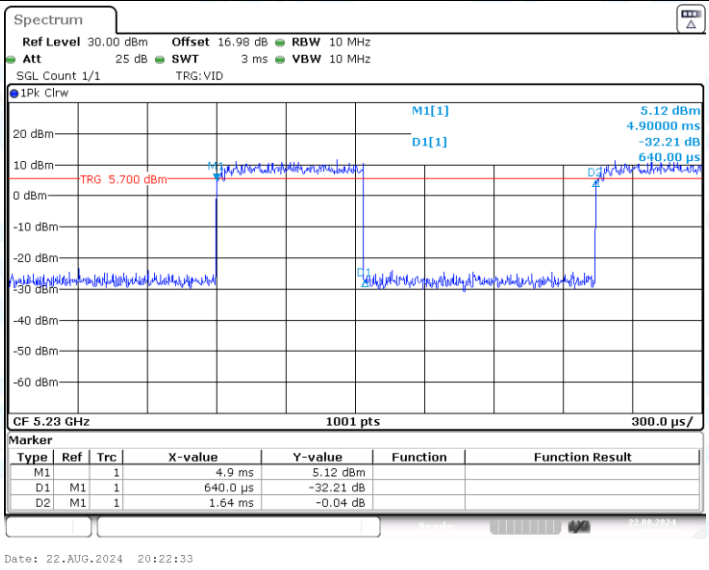


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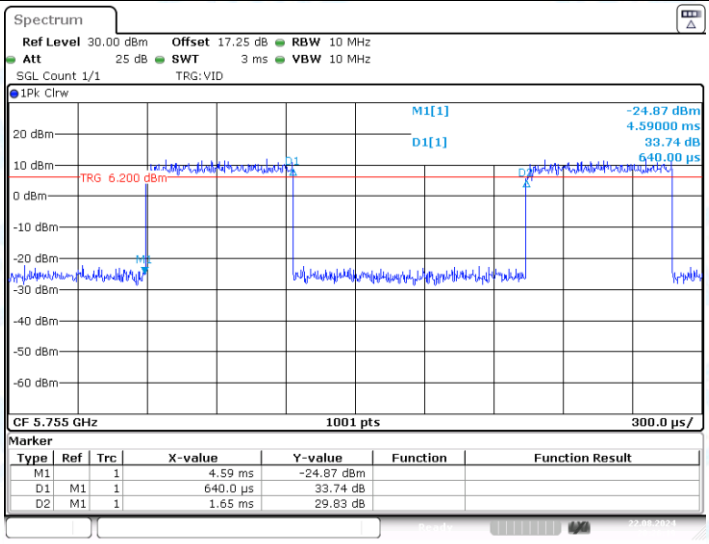
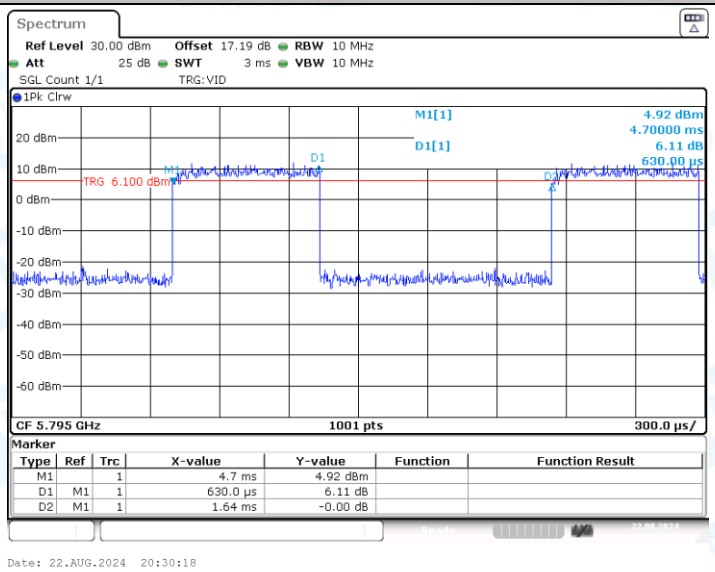
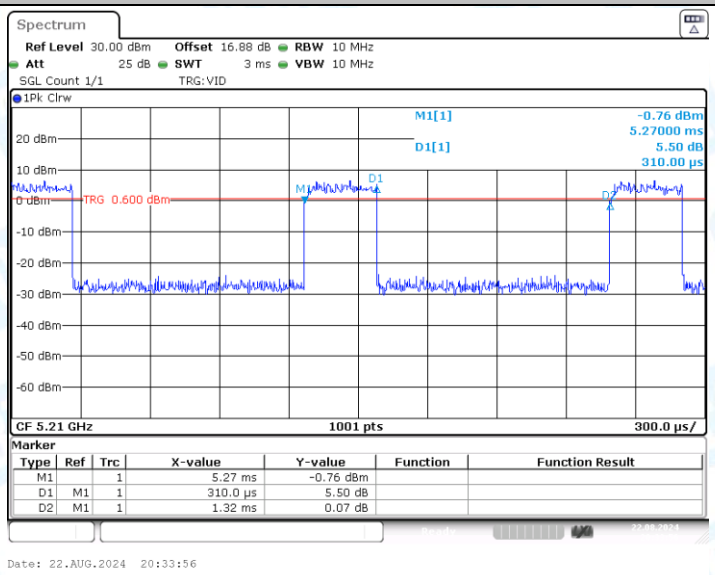


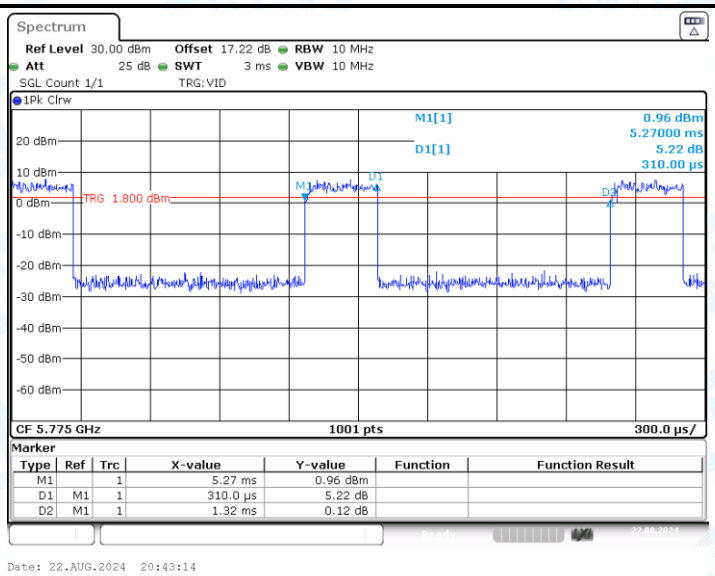

11AC40SISO_Ant1_5755




11AC40SISO_Ant1_5795




11AC80SISO_Ant1_5210




11AC80SISO_Ant1_5775

**-----End of the report-----**