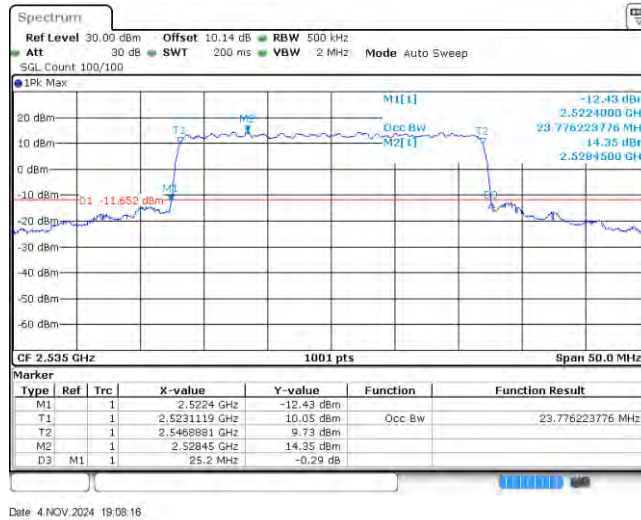
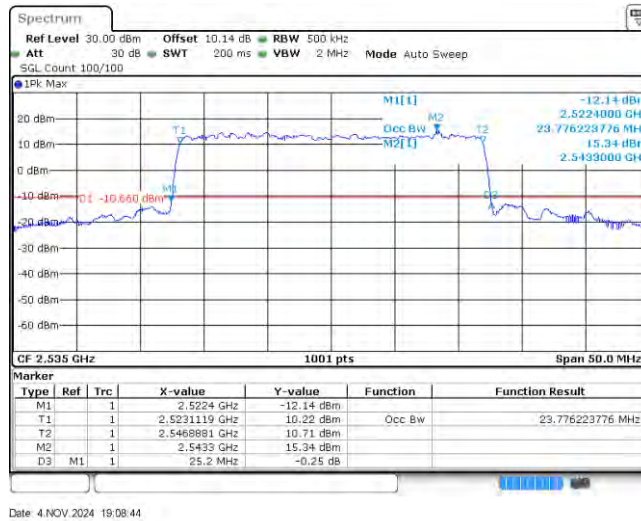
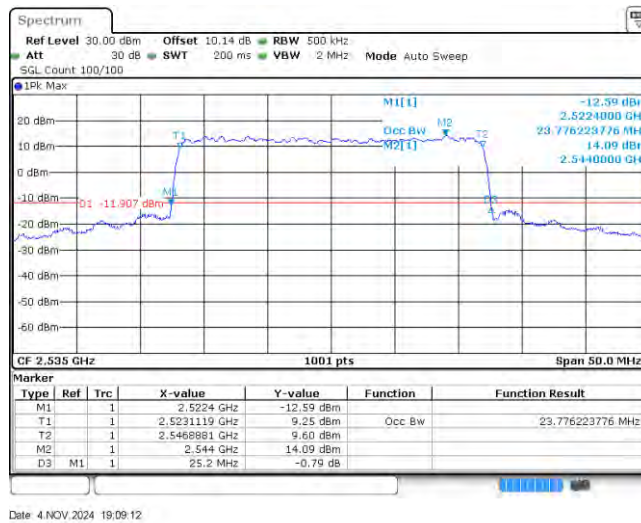




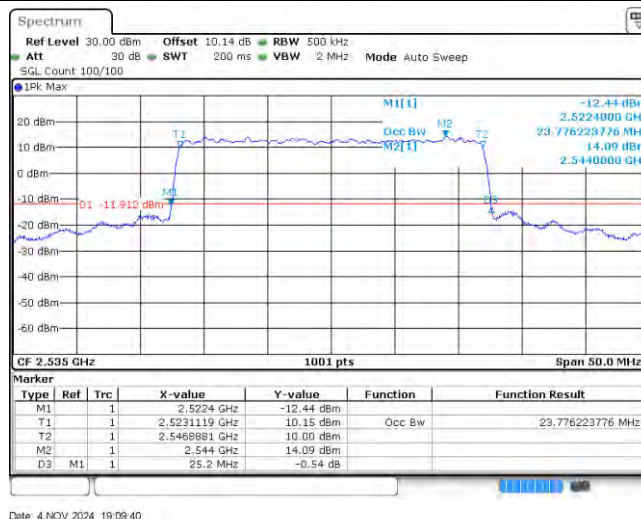
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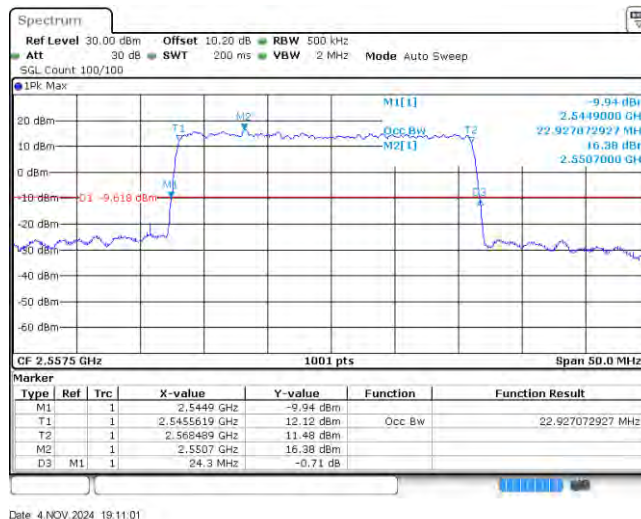
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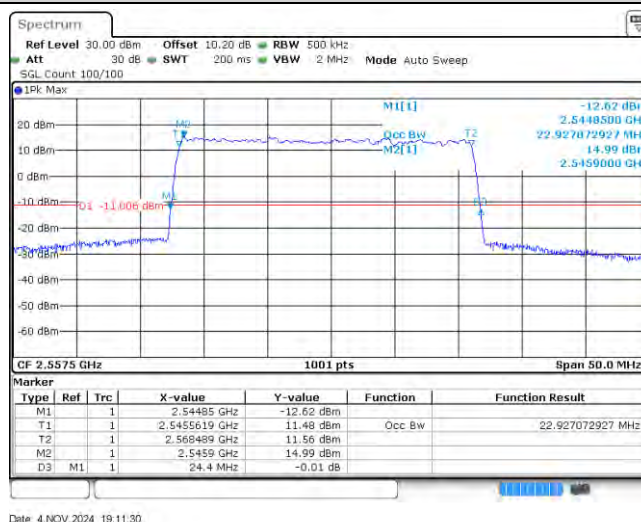
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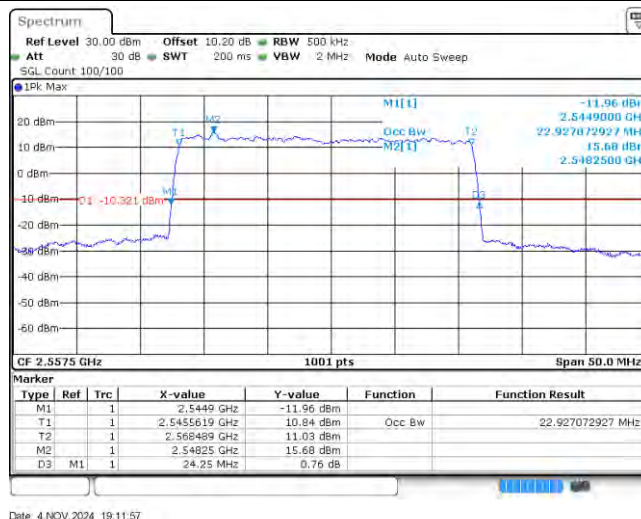
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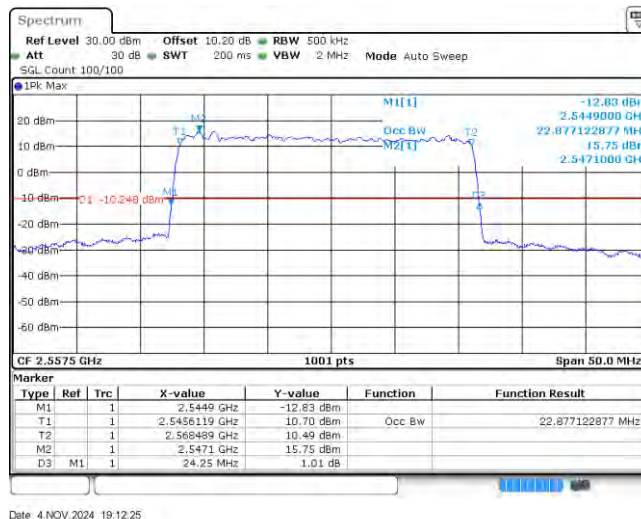
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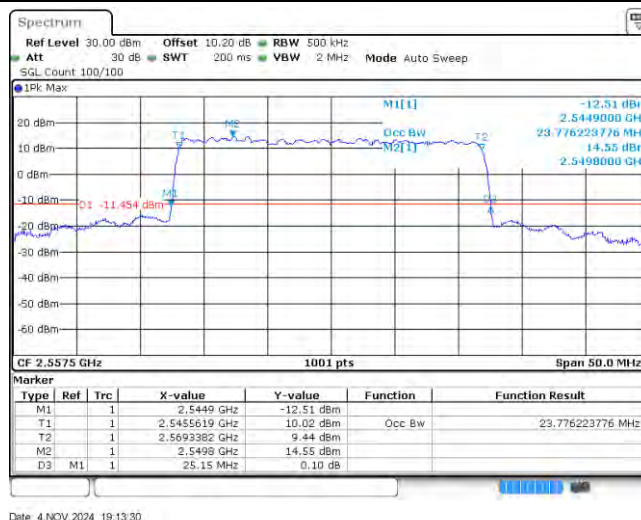
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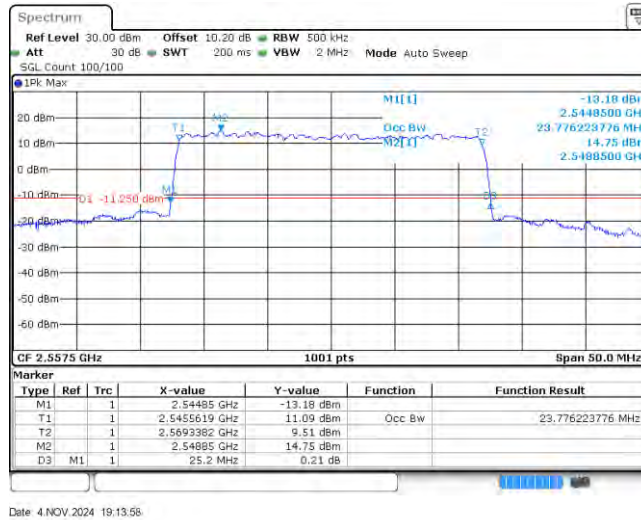
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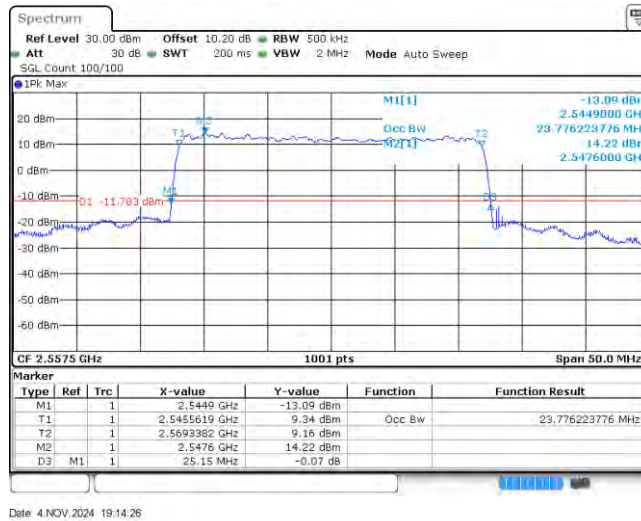
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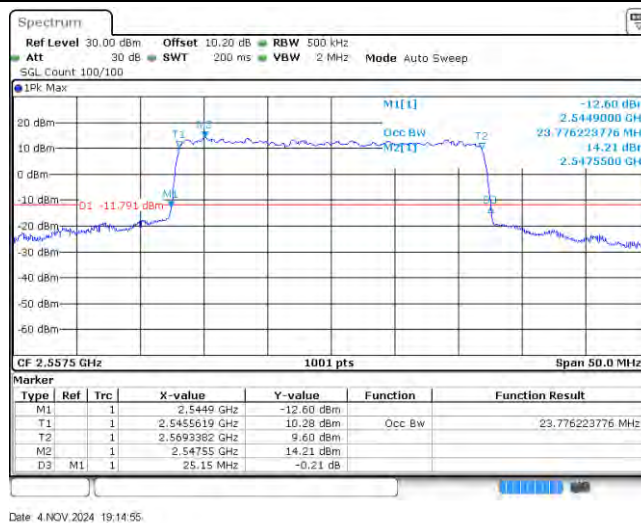
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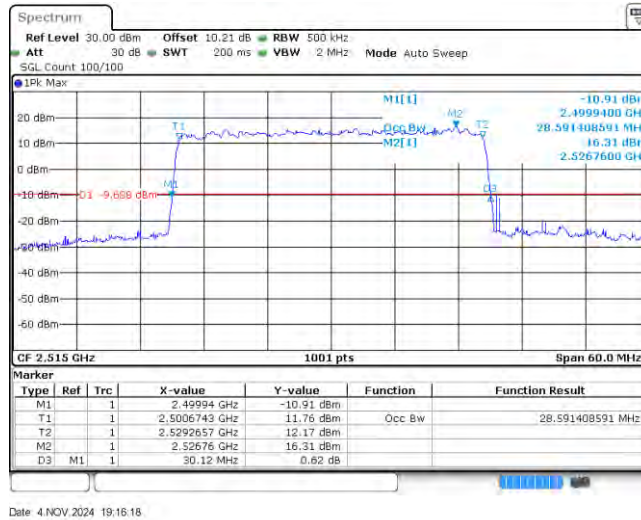
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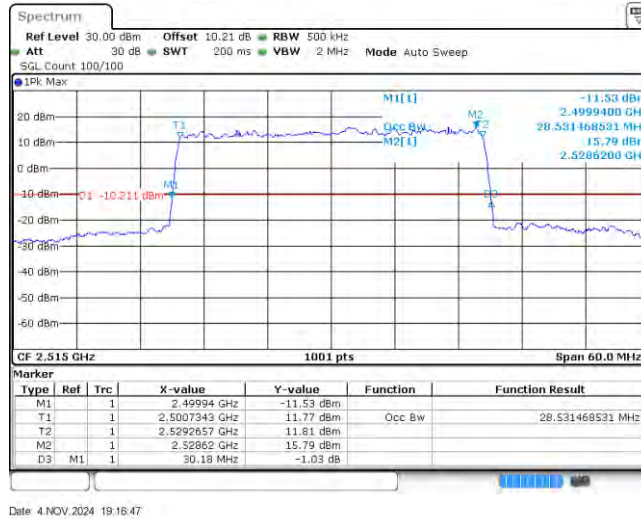
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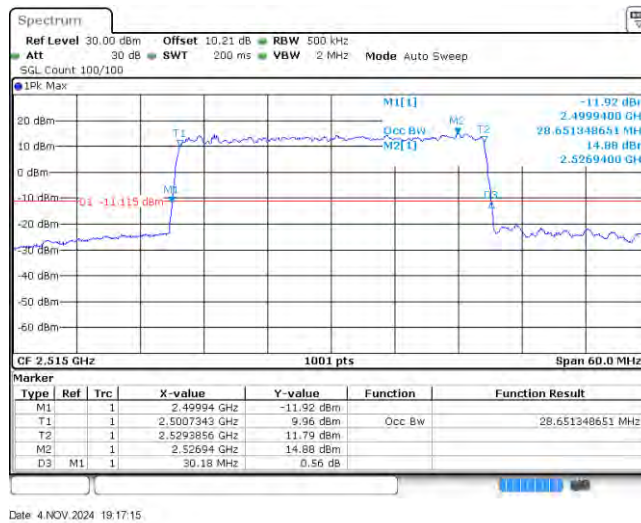
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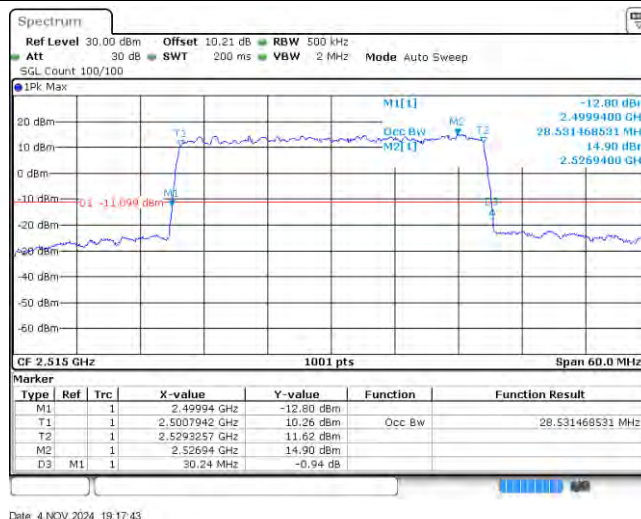
1-N7-PC3-15-30-L-1-DFT-QPSK-Outer\_Full-160@0-Ant4-28.591-30.120-≤30-PASS



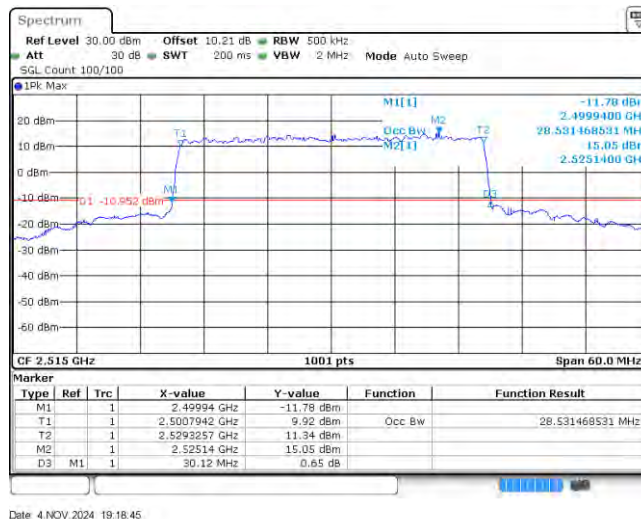
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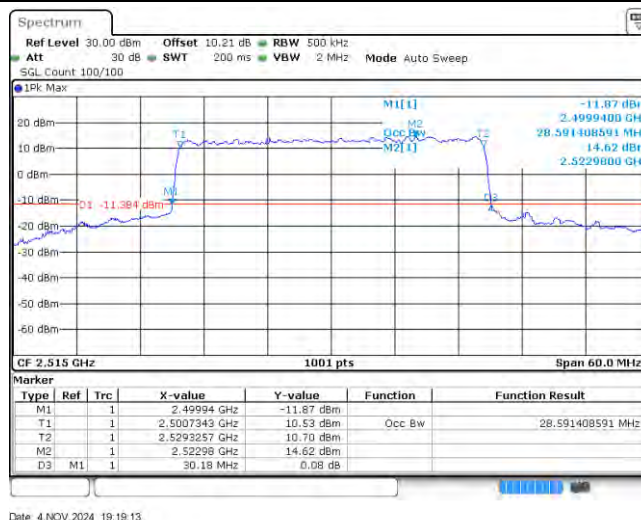
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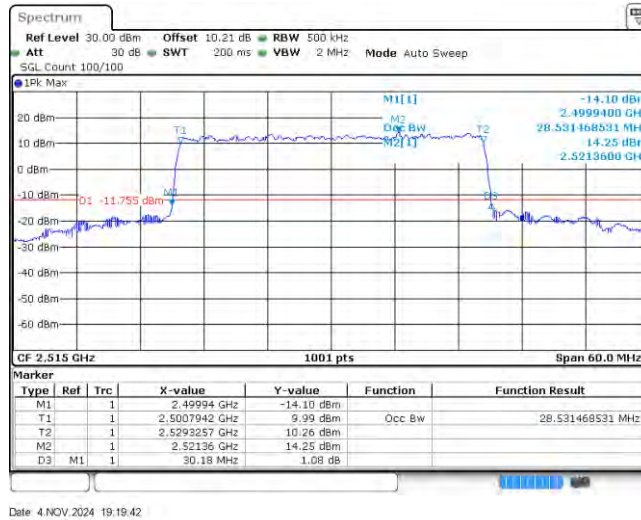
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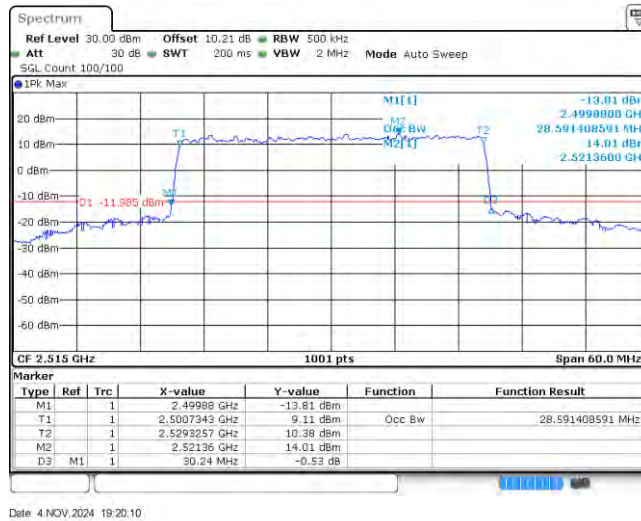
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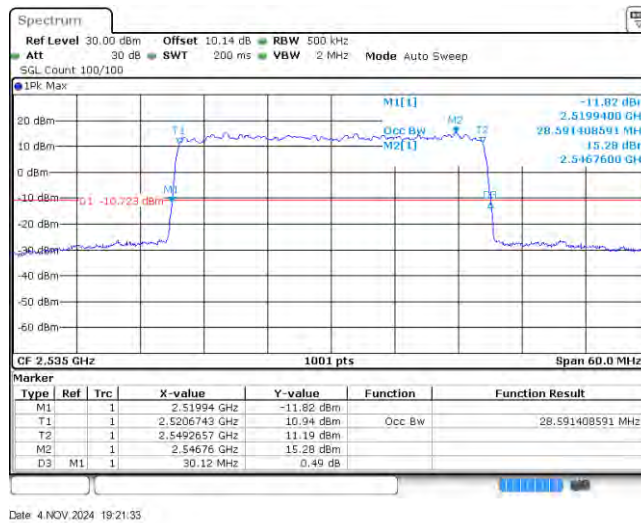
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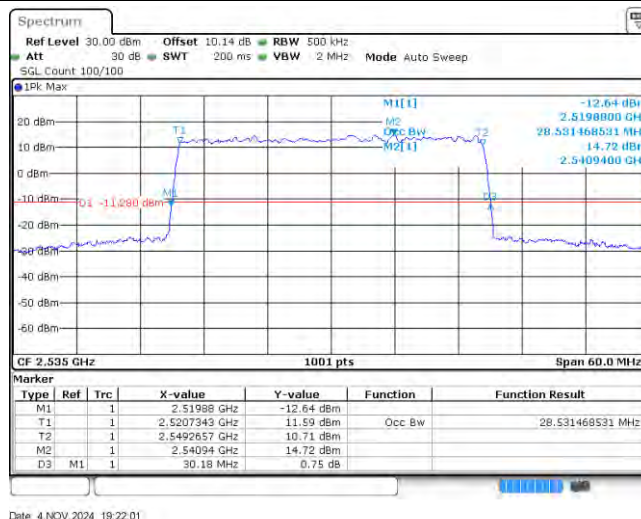
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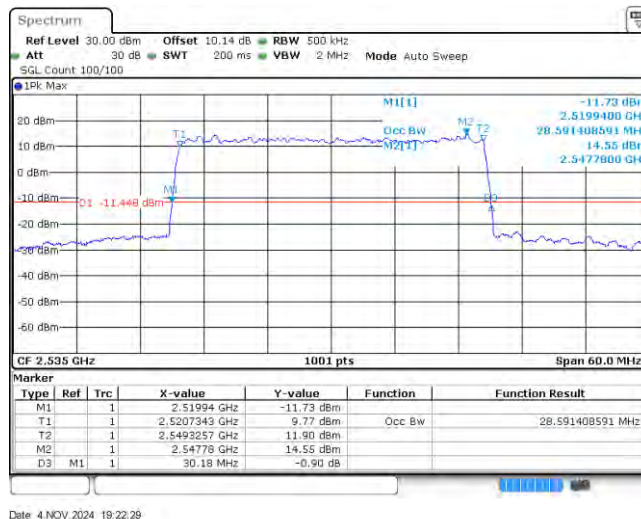
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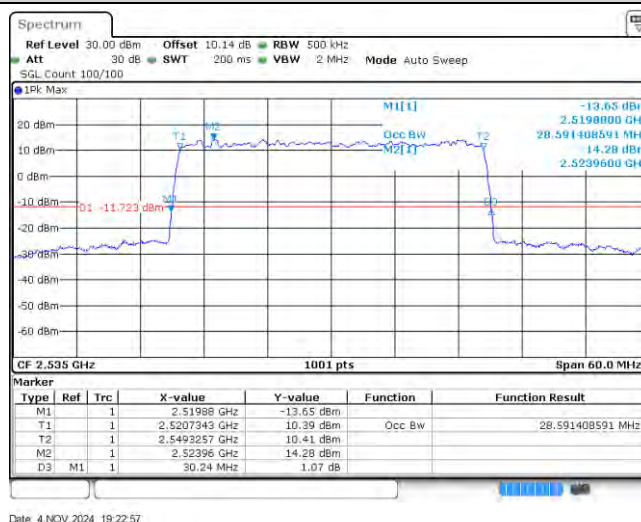
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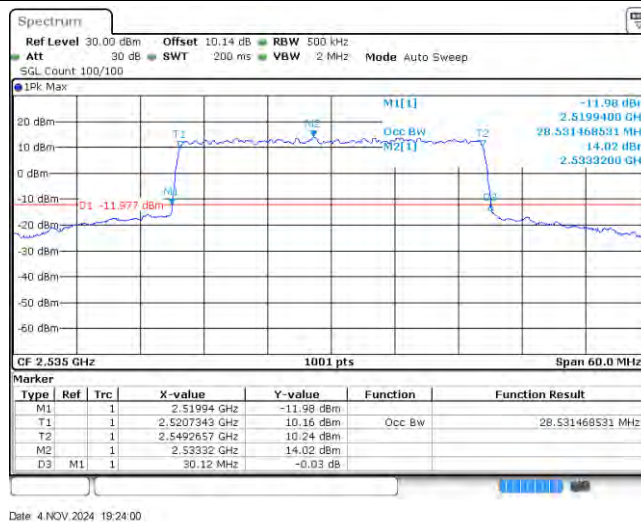
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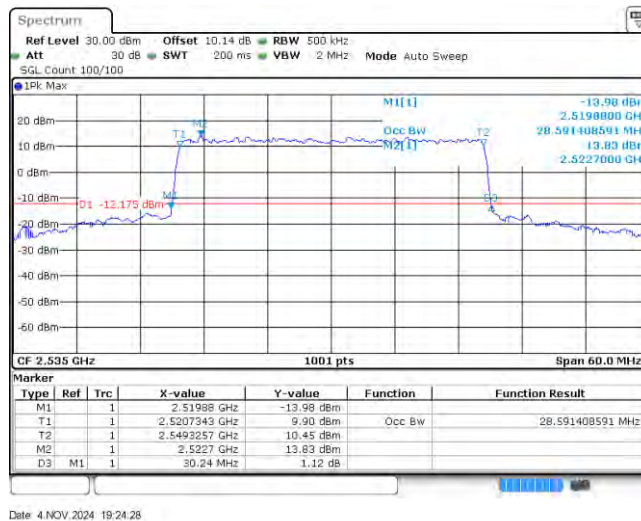
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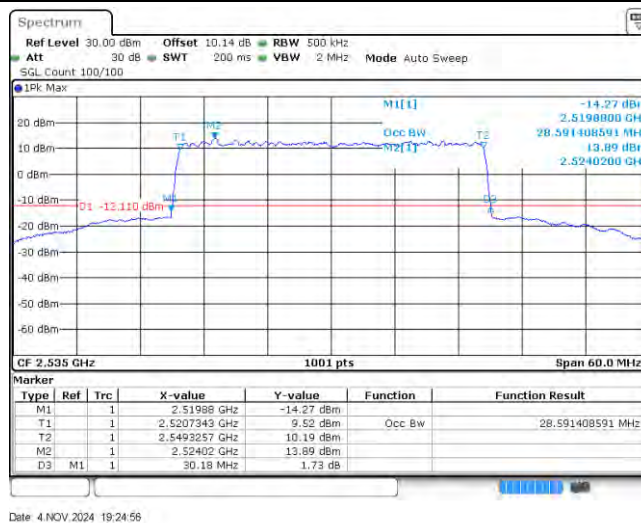
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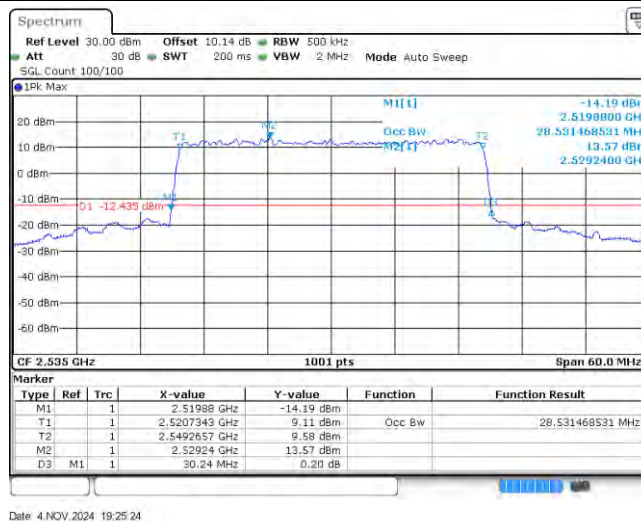
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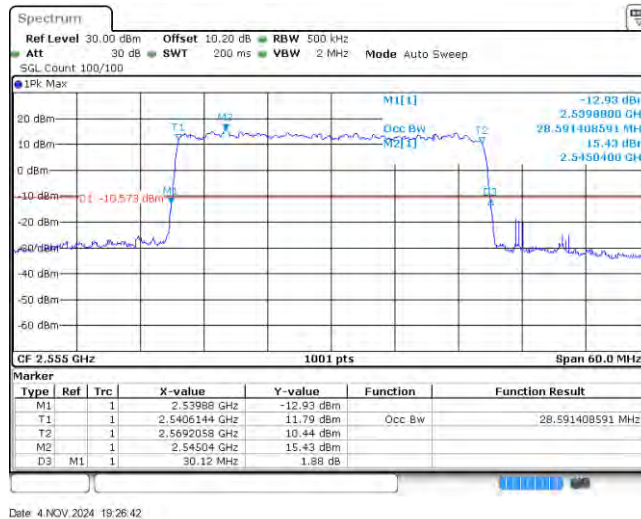
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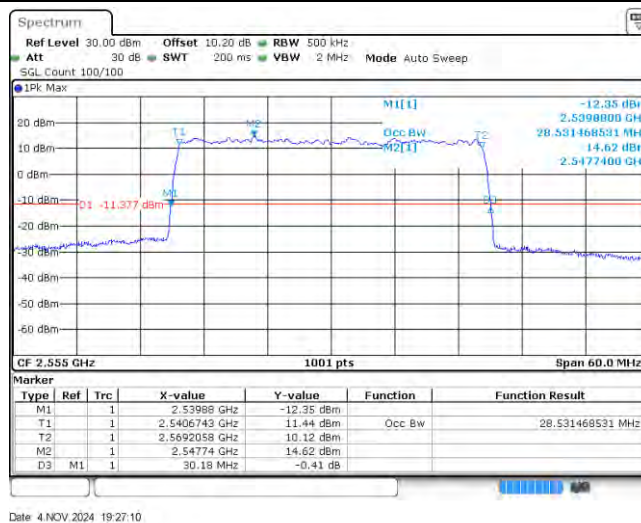
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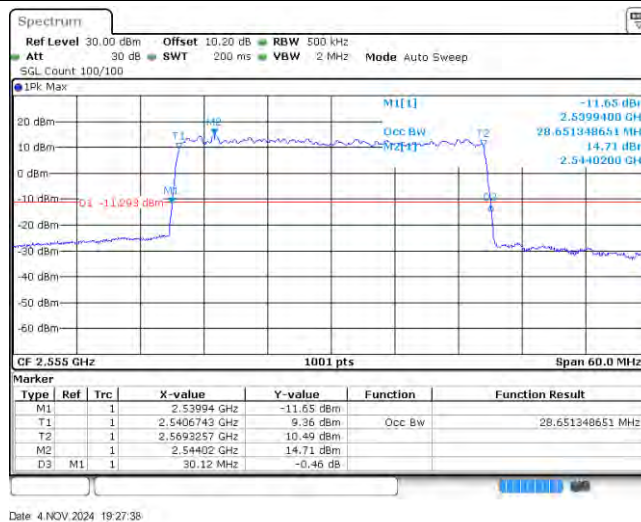
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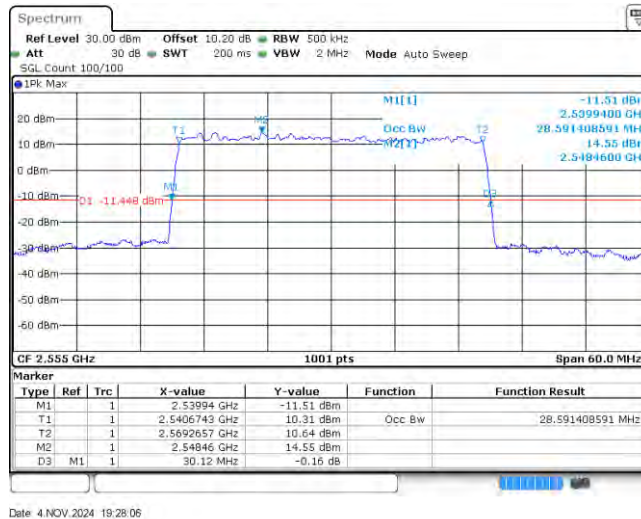
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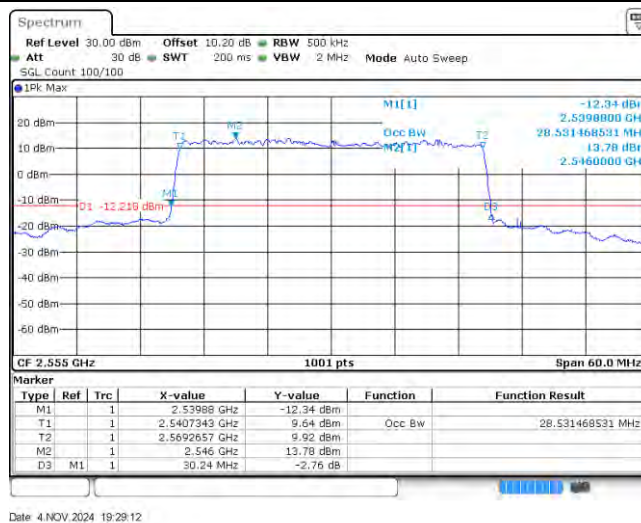
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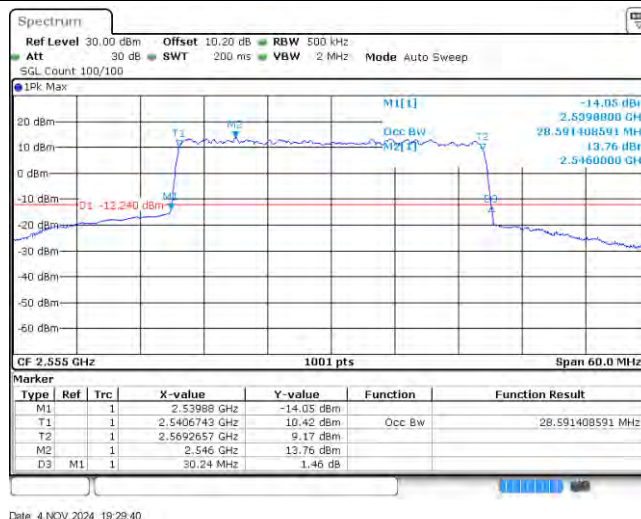
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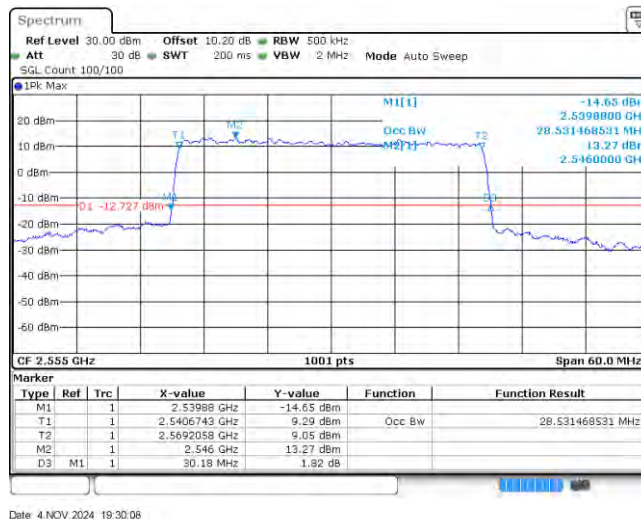
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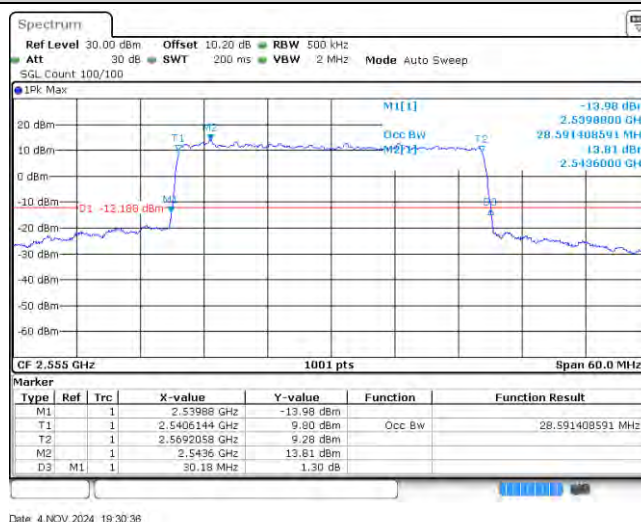
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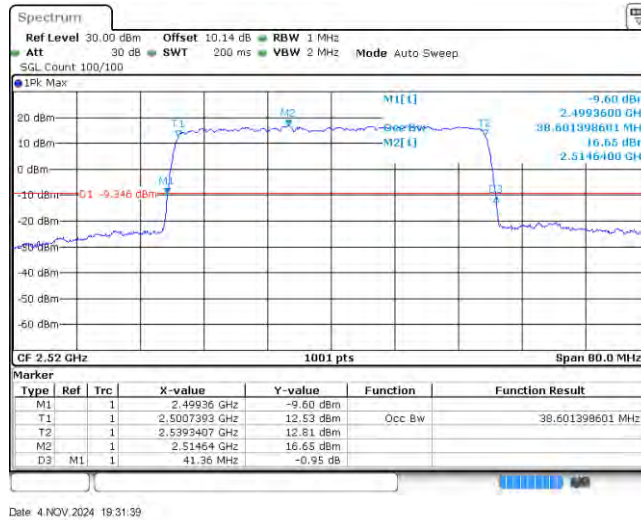
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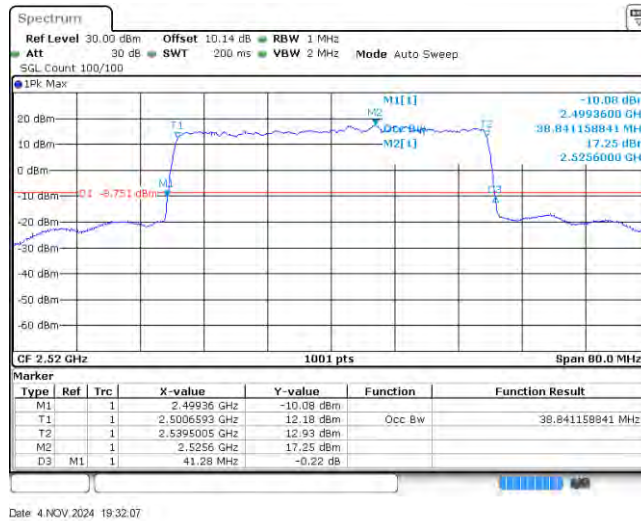
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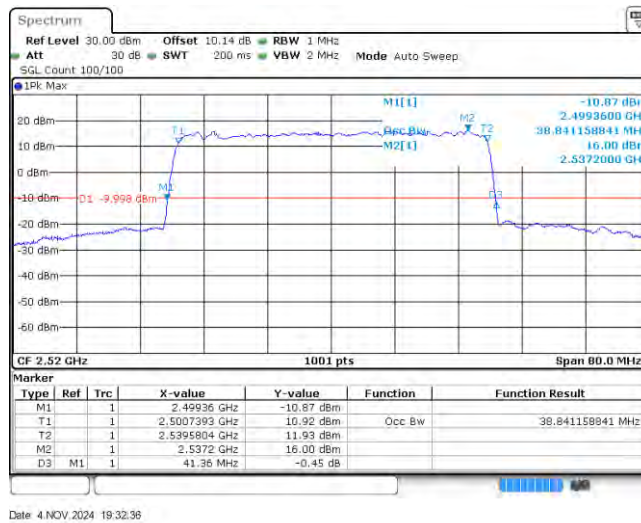
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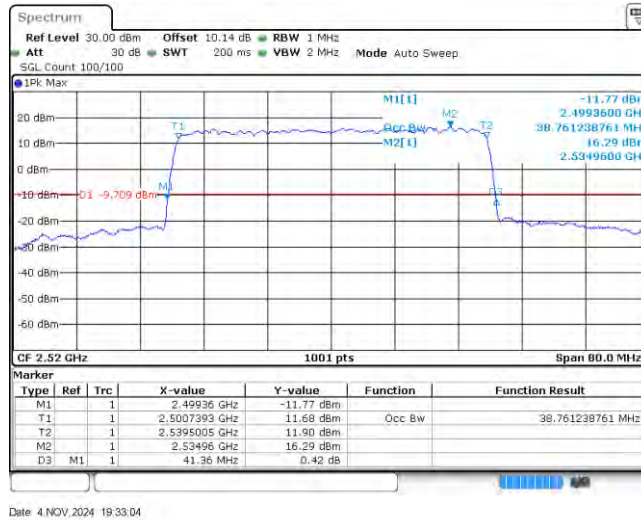
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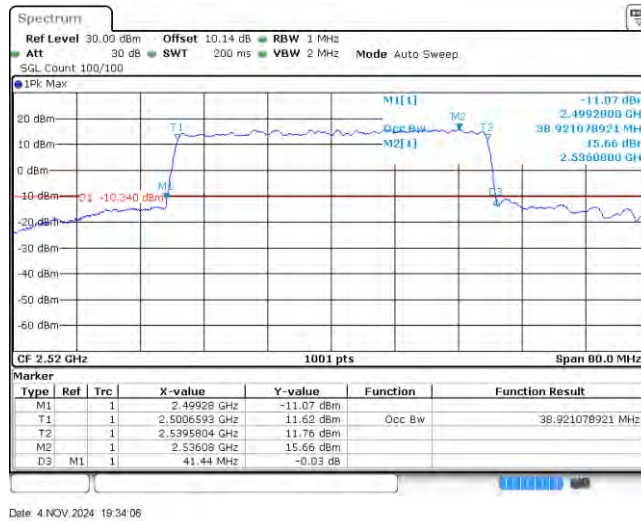
1-N7-PC3-15-40-L-3-DFT-16QAM-Outer\_Full-216@0-Ant4-38.841-41.280-≤40-PASS



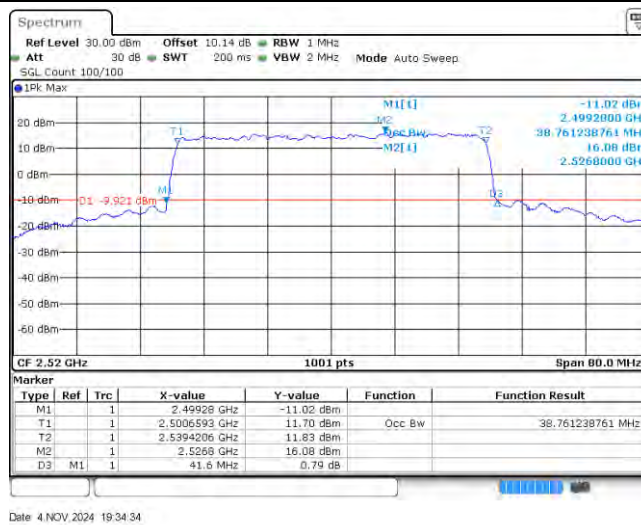
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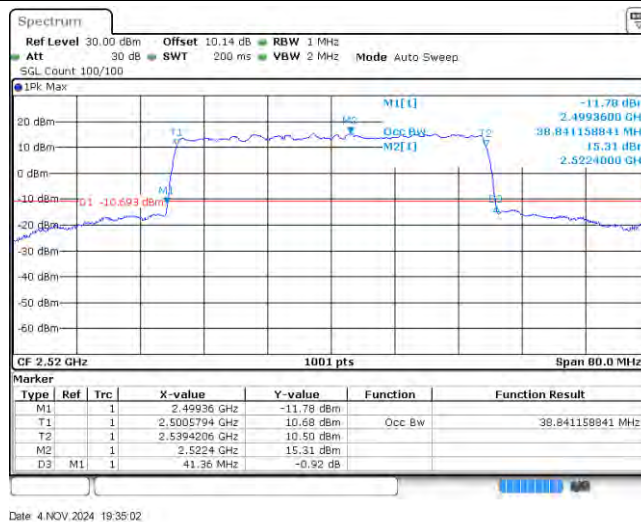
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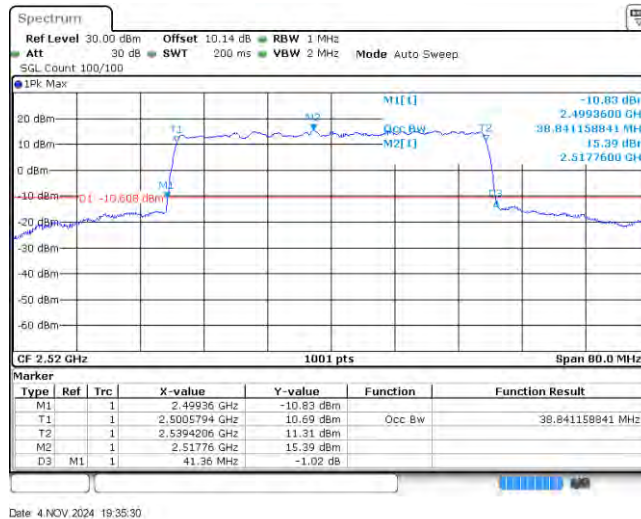
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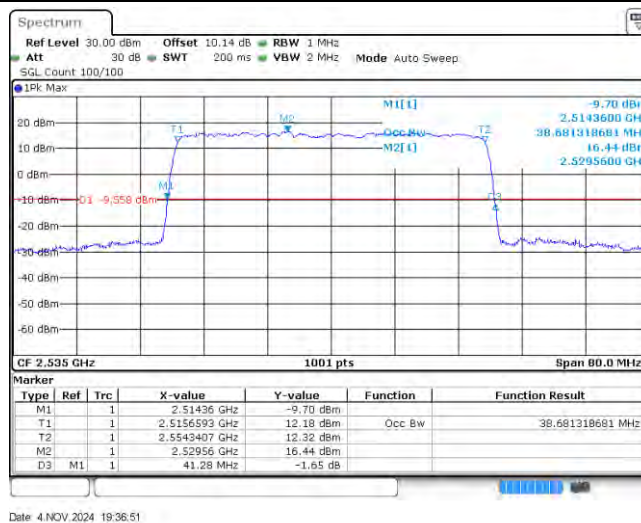
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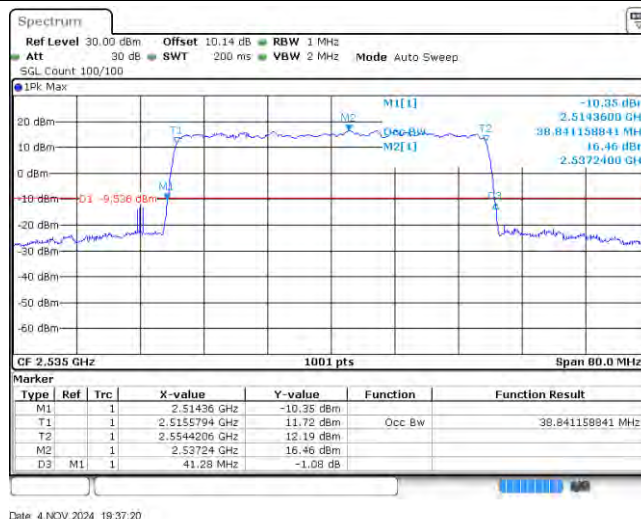
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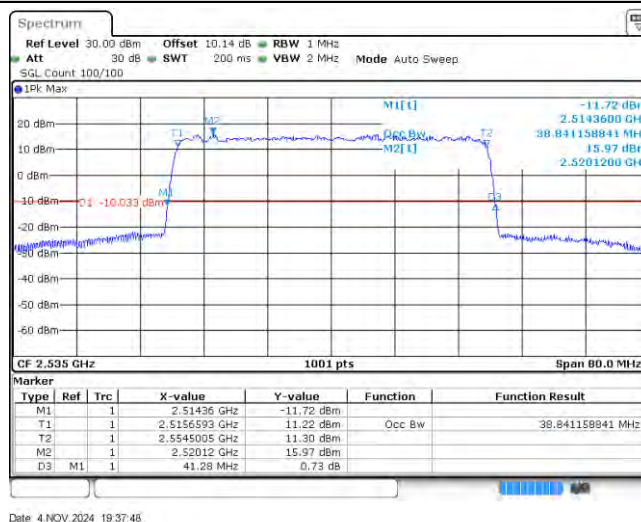
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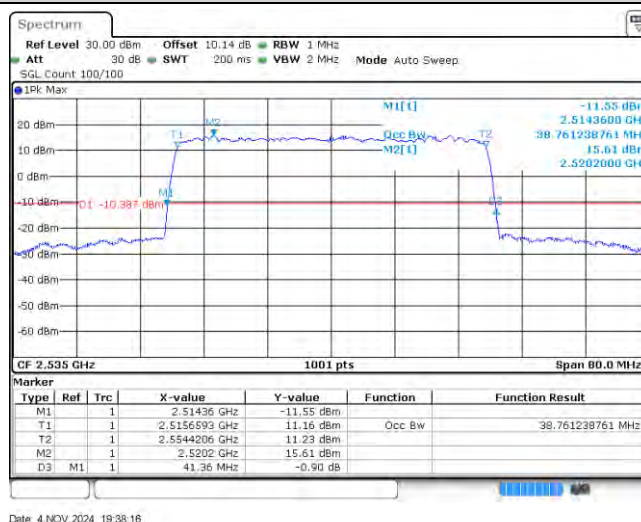
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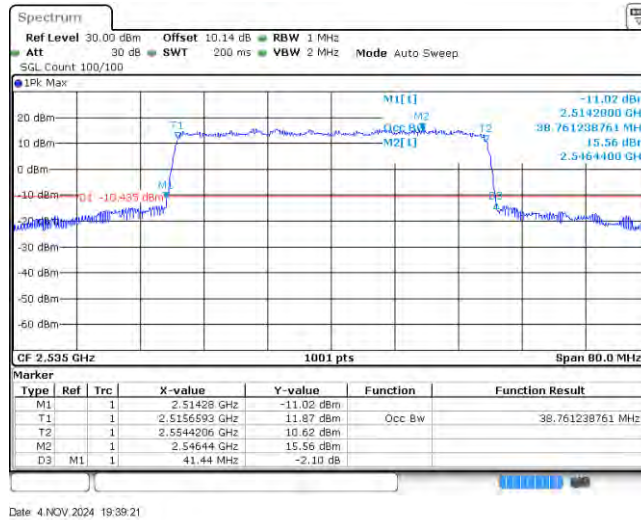
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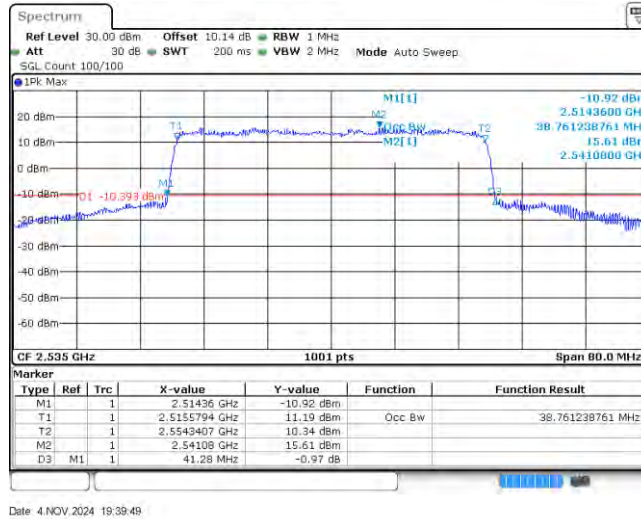
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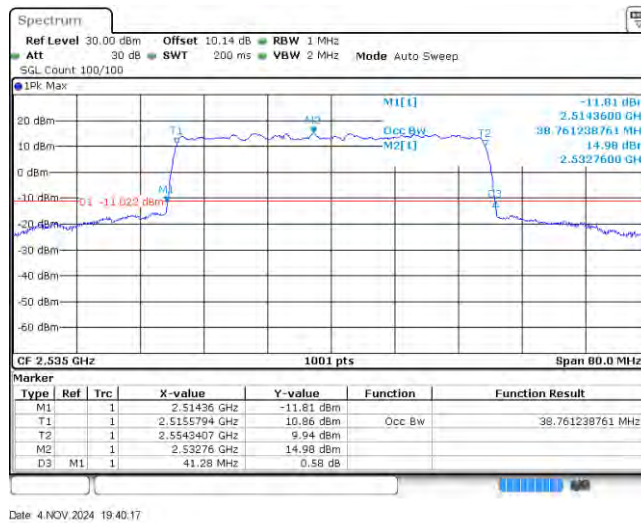
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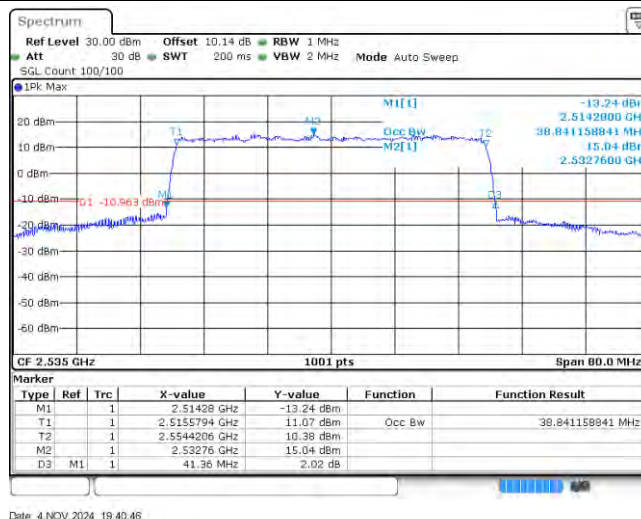
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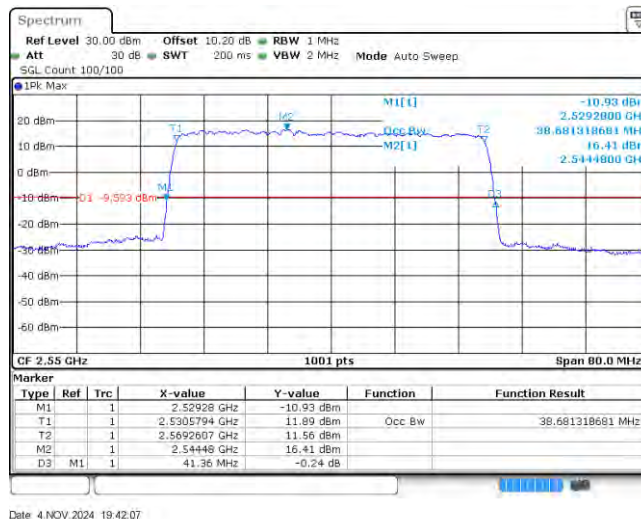
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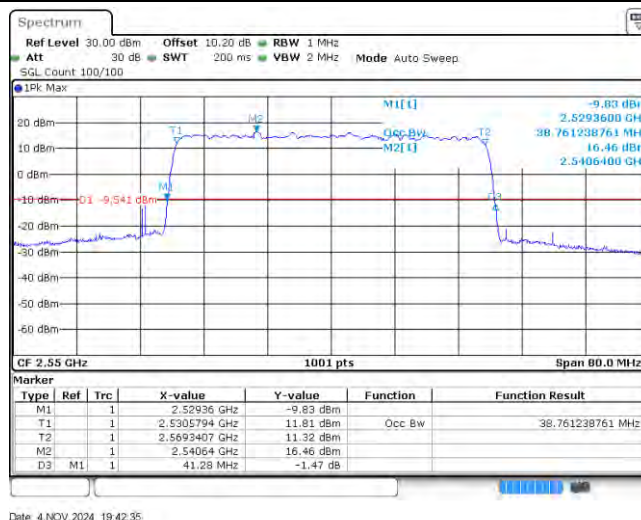
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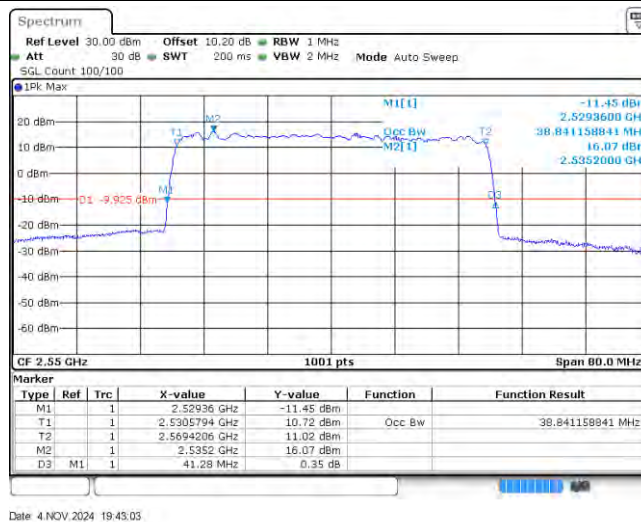
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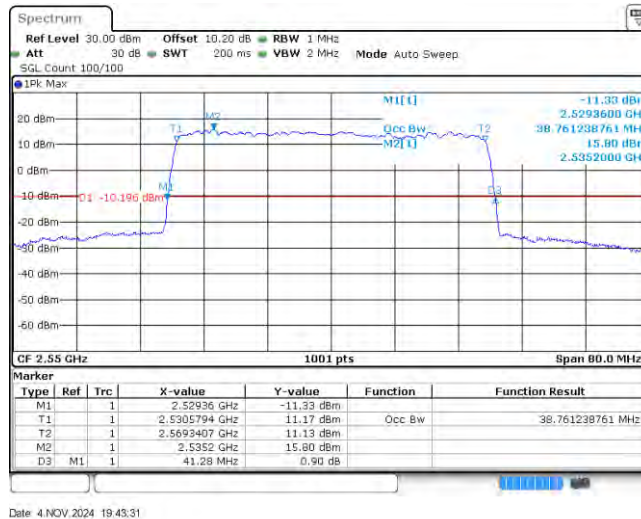
1-N7-PC3-15-40-H-1-DFT-QPSK-Outer\_Full-216@0-Ant4-38.681-41.360-≤40-PASS



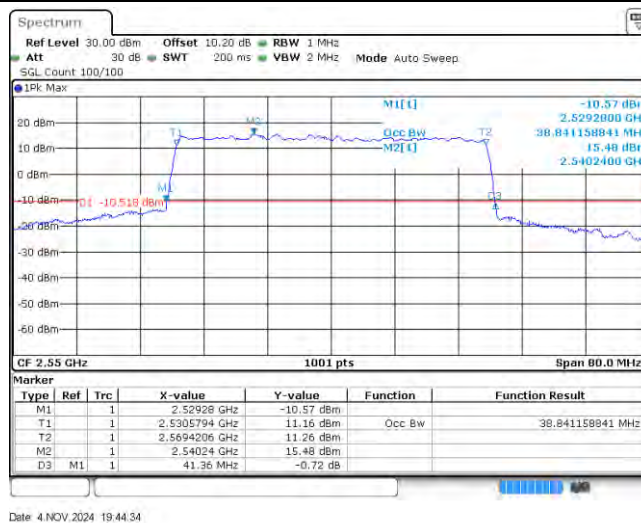
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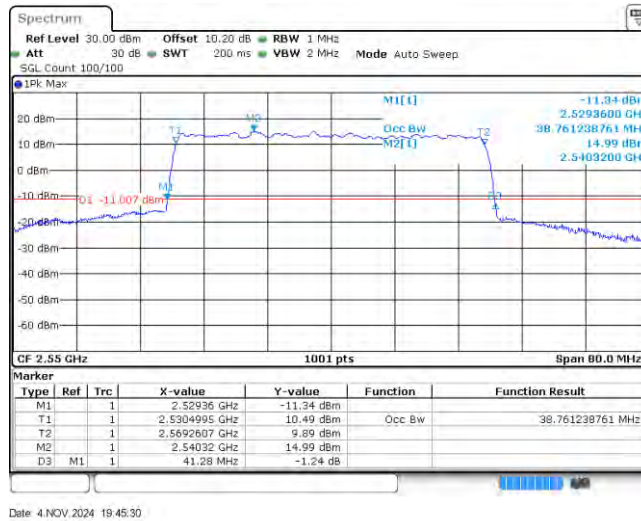
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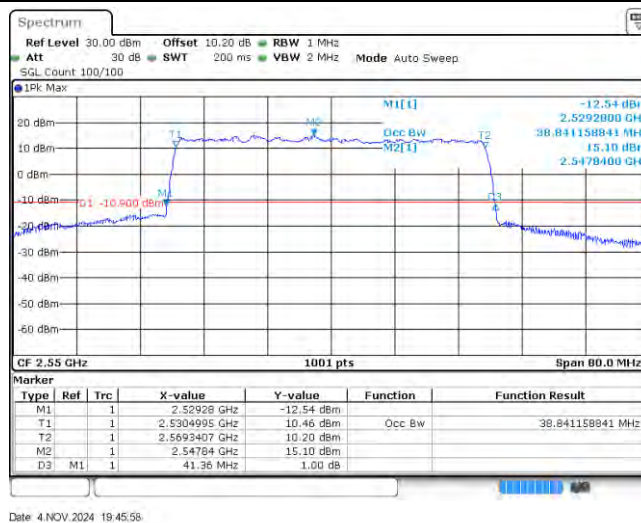
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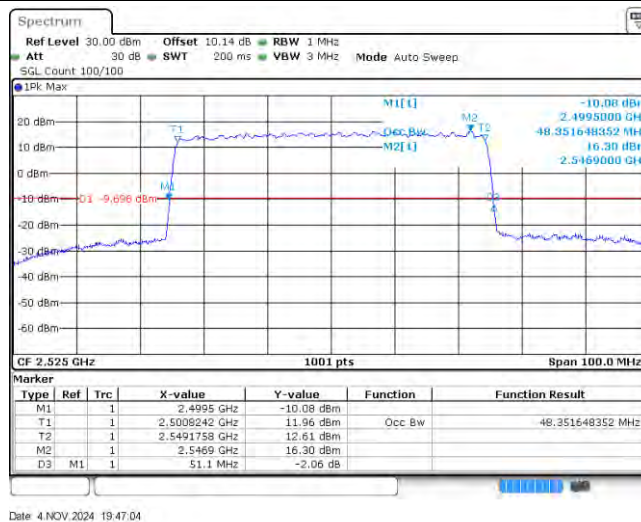
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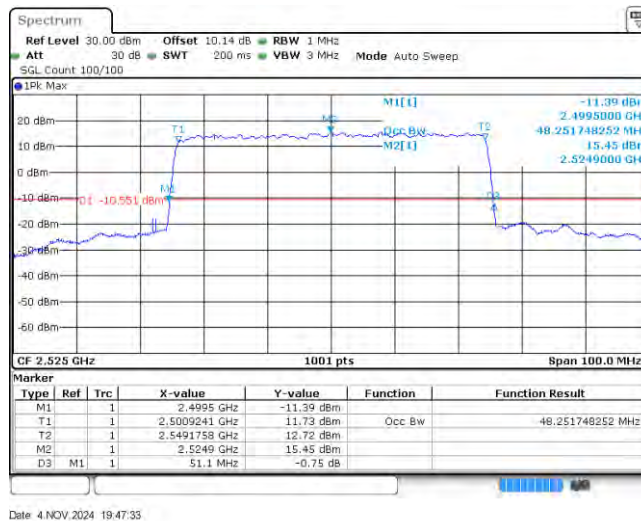
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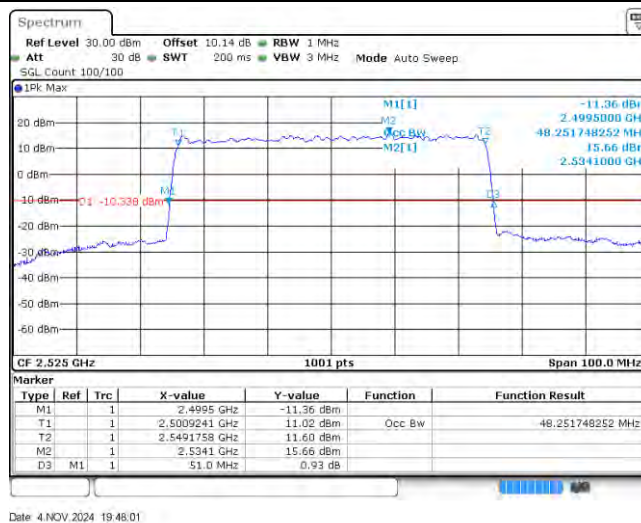
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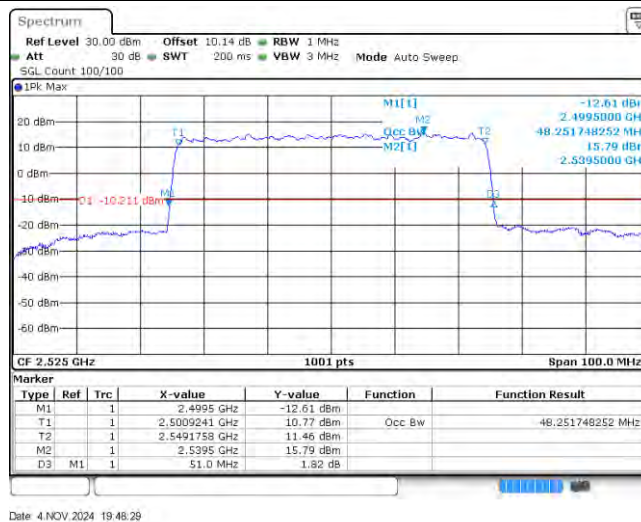
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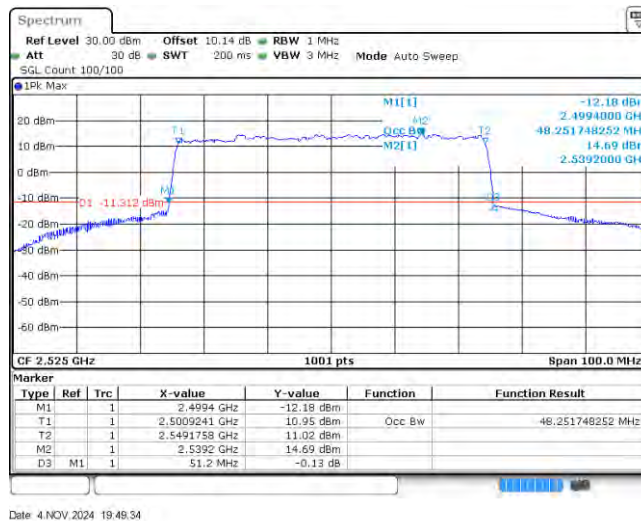
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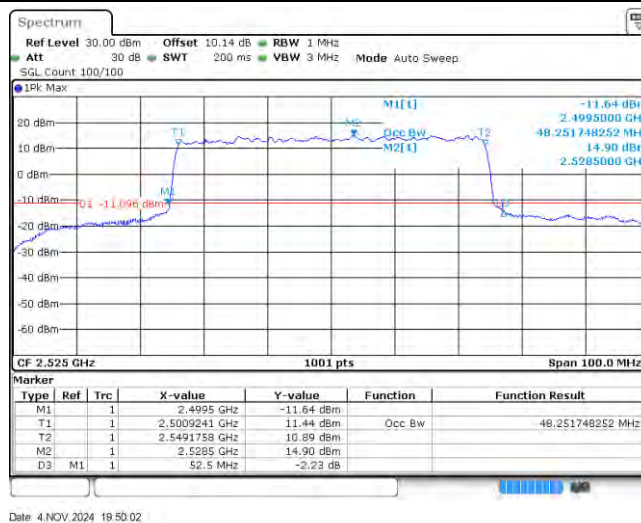
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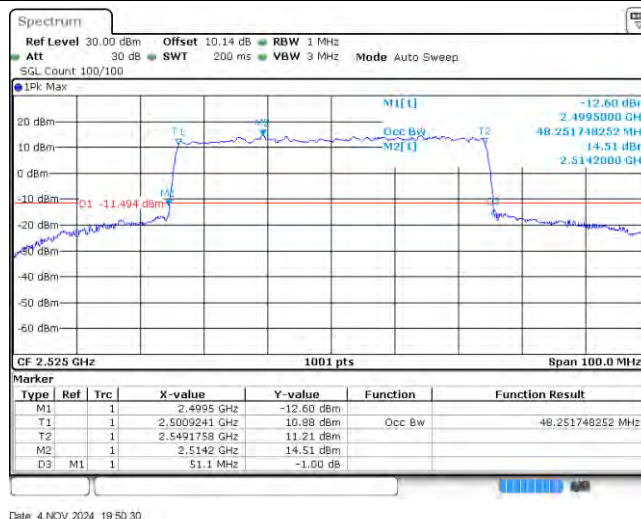
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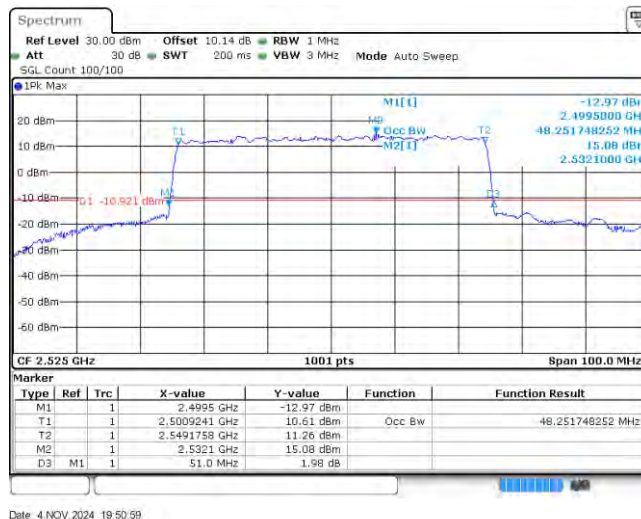
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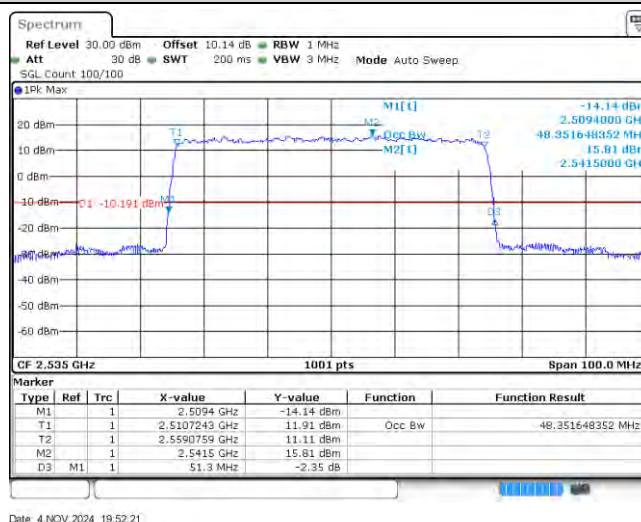
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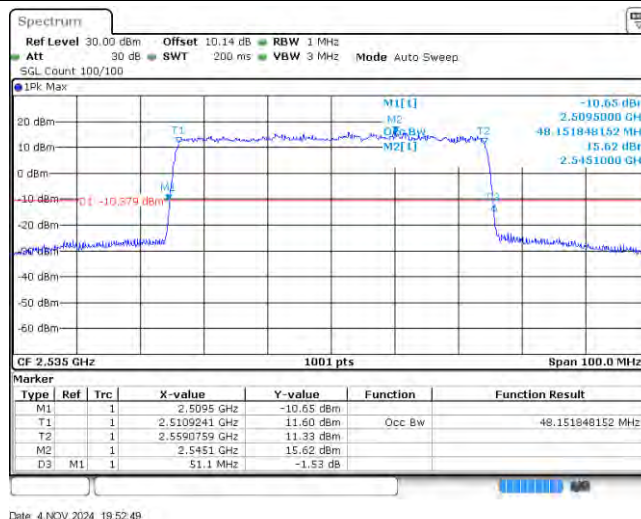
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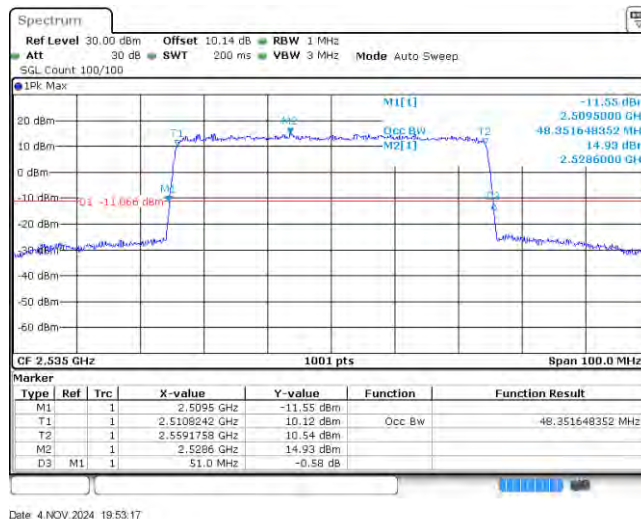
1-N7-PC3-15-50-L-9-CP-256QAM-Outer\_Full-270@0-Ant4-48.252-51.000-≤50-PASS



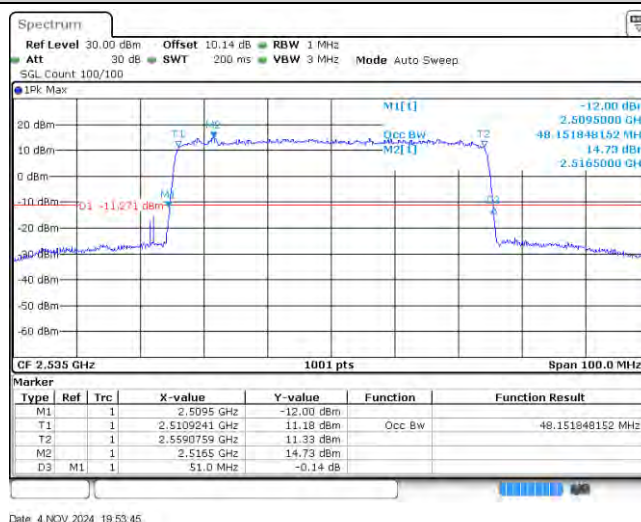
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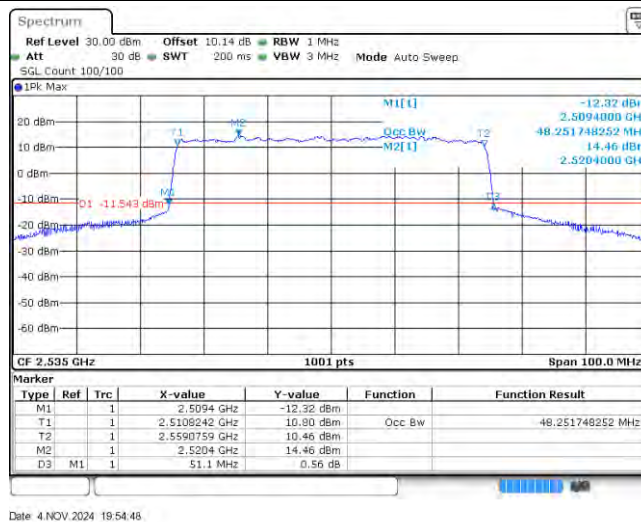
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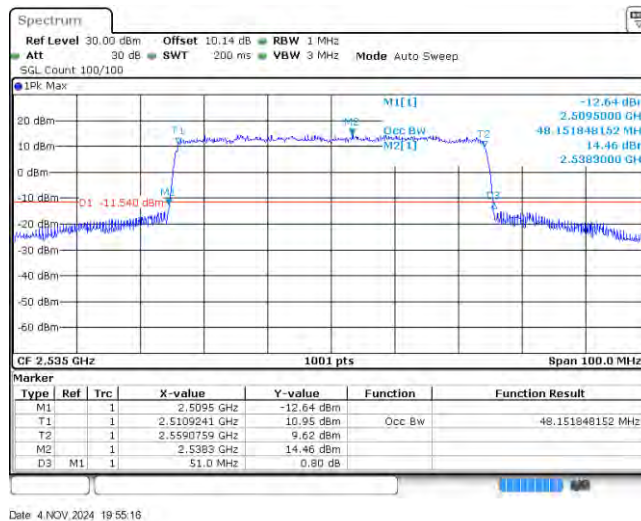
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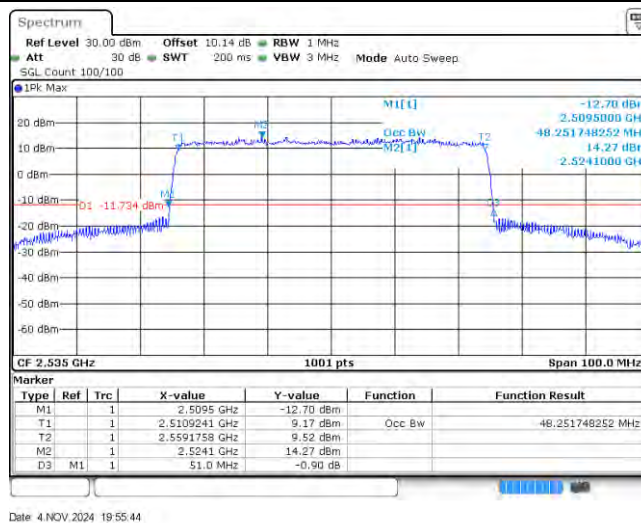
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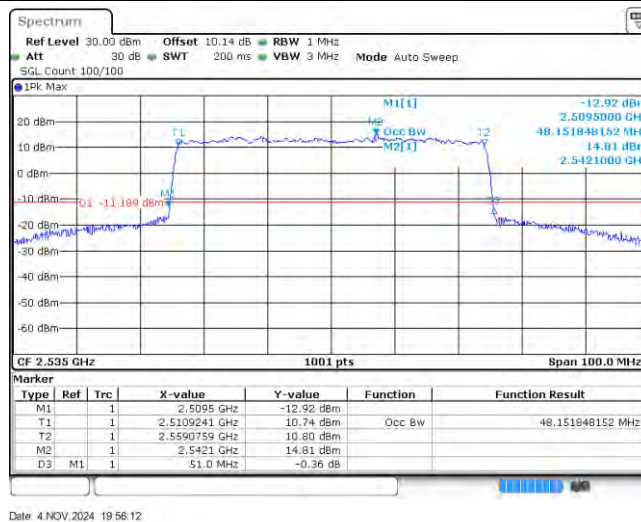
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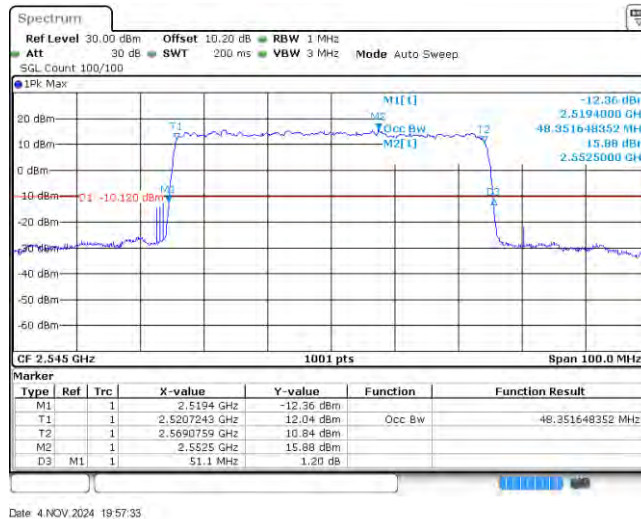
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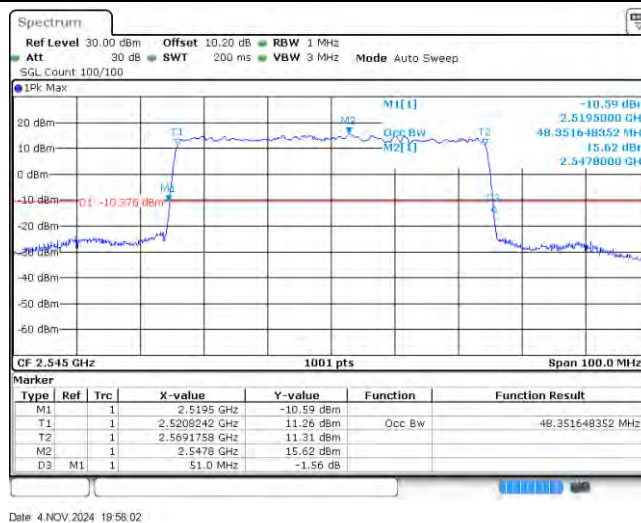
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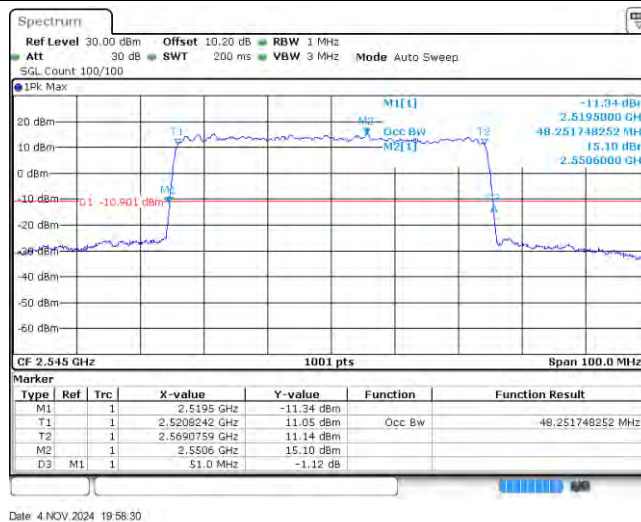
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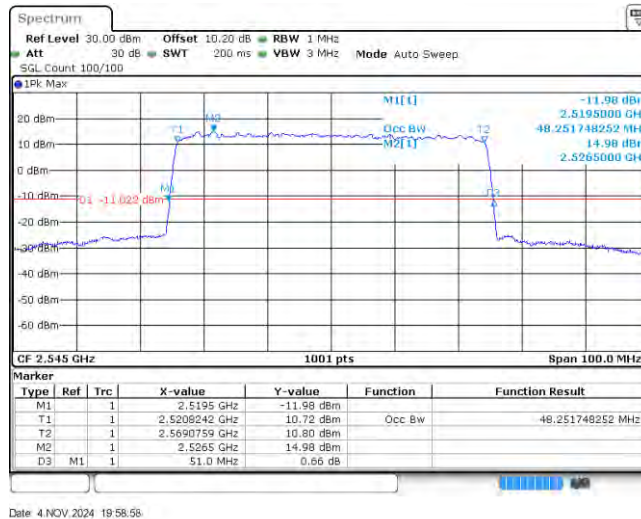
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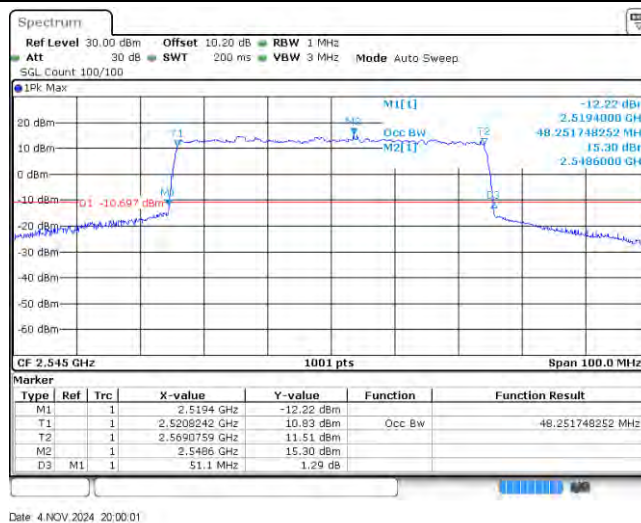
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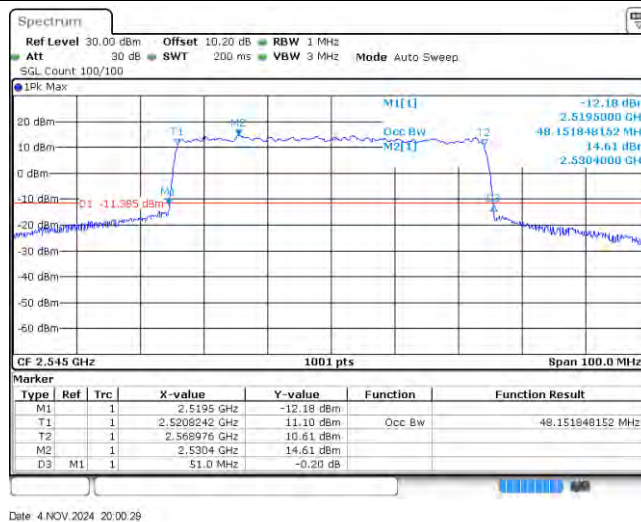
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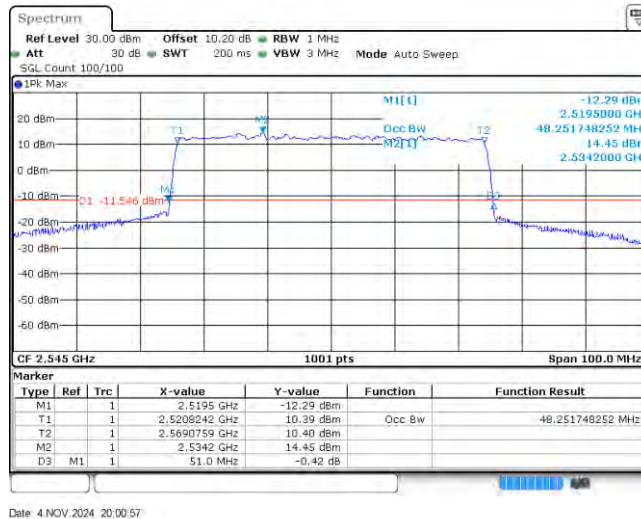
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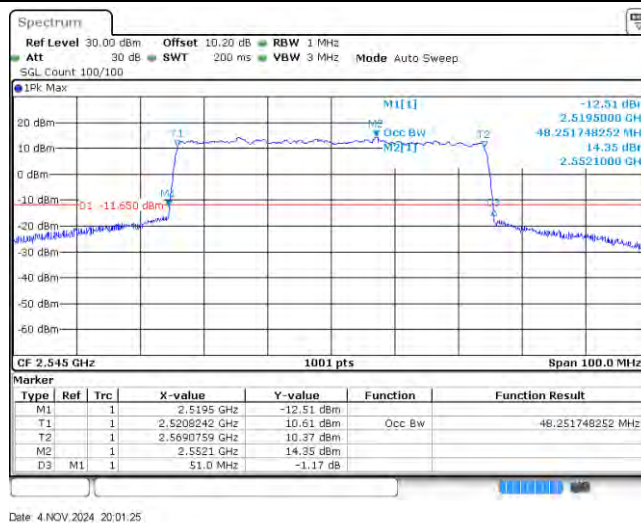
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1-N7-PC3-15-50-H-7-CP-16QAM-Outer\_Full-270@0-Ant4-48.152-51.000-≤50-PASS



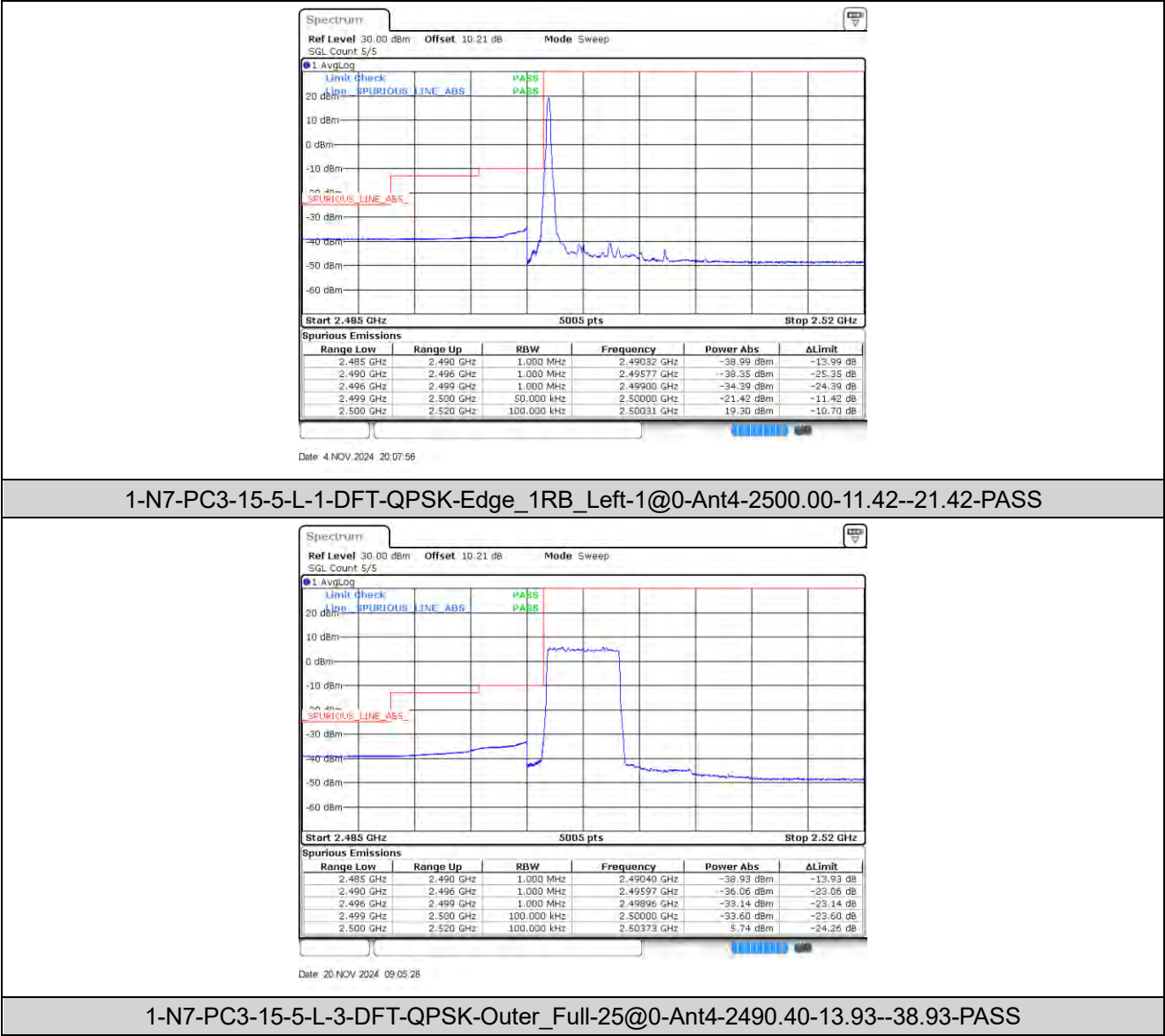
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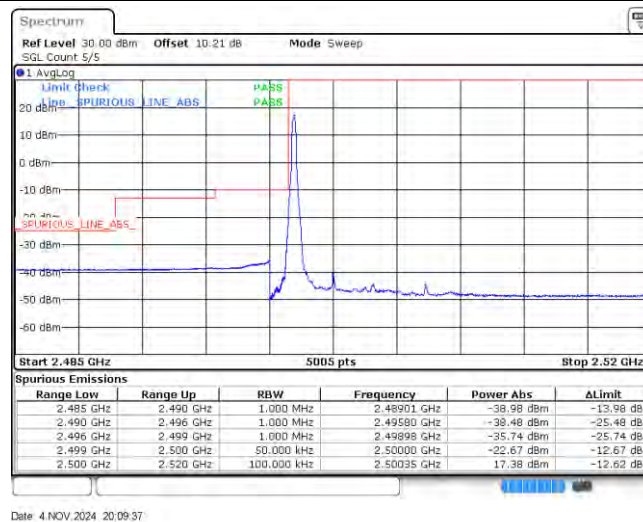


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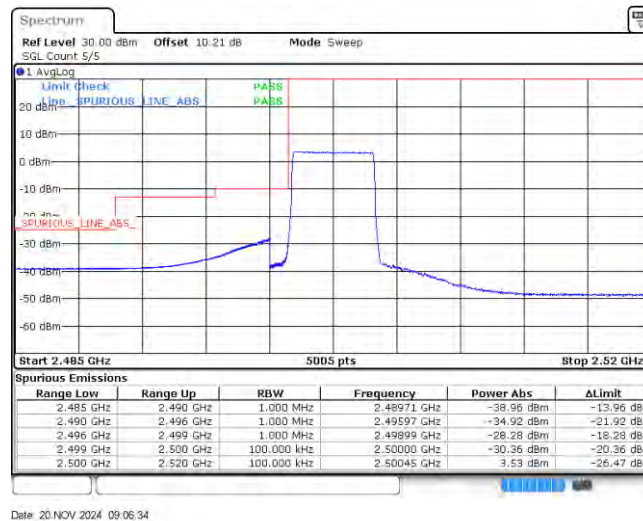
Band Edge for SA

Test Graphs

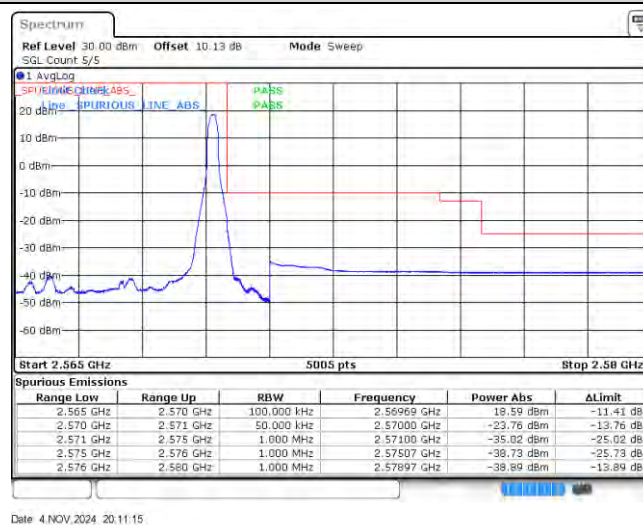




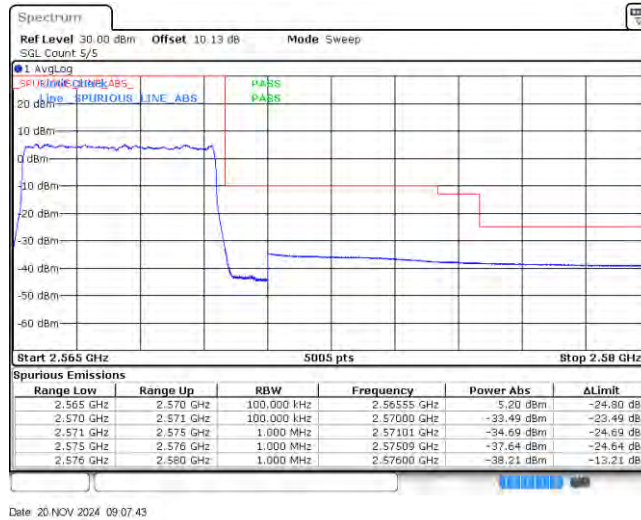
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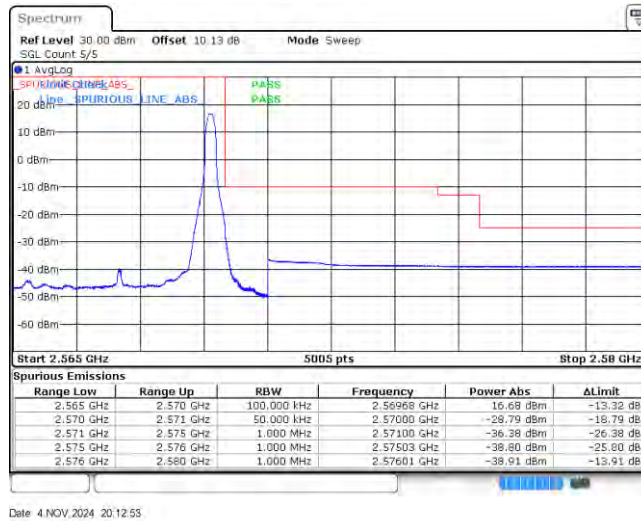
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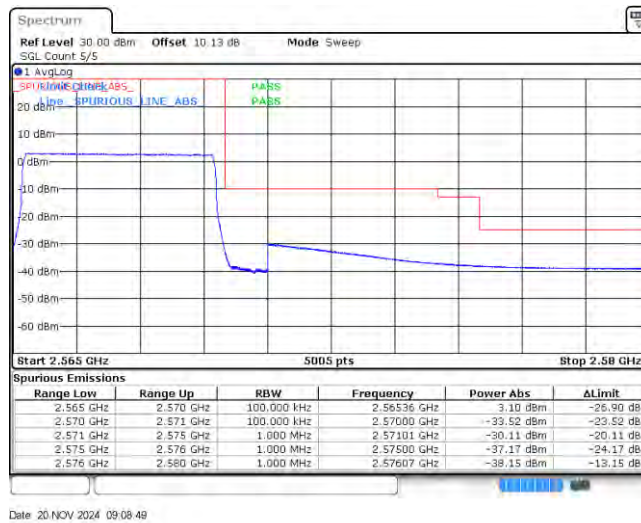
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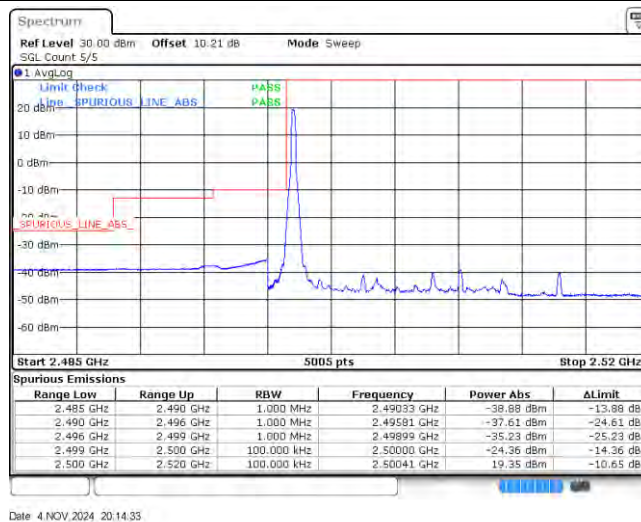
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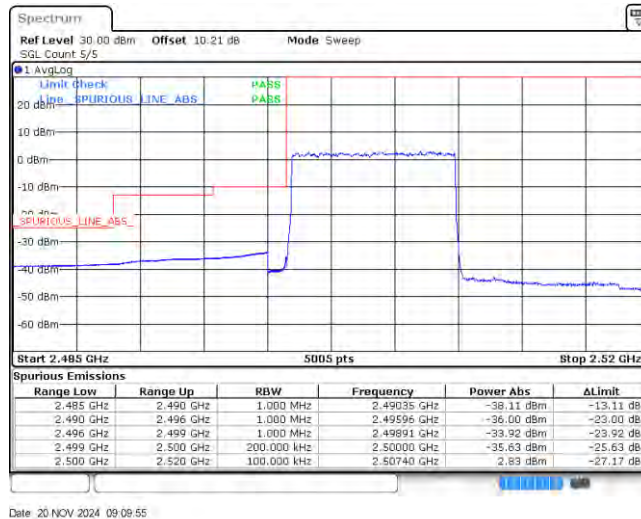
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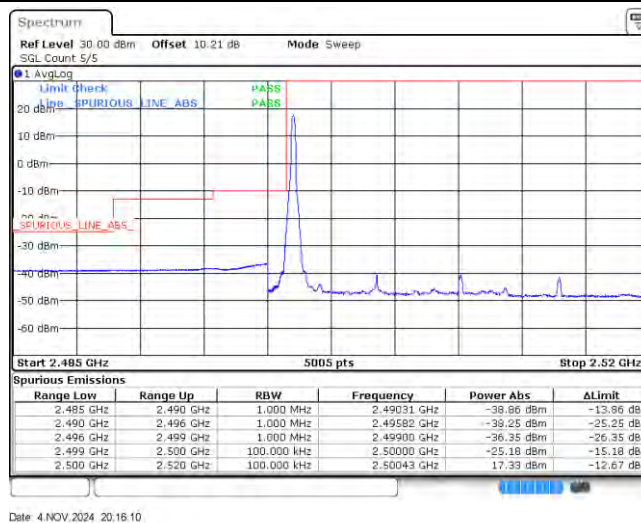
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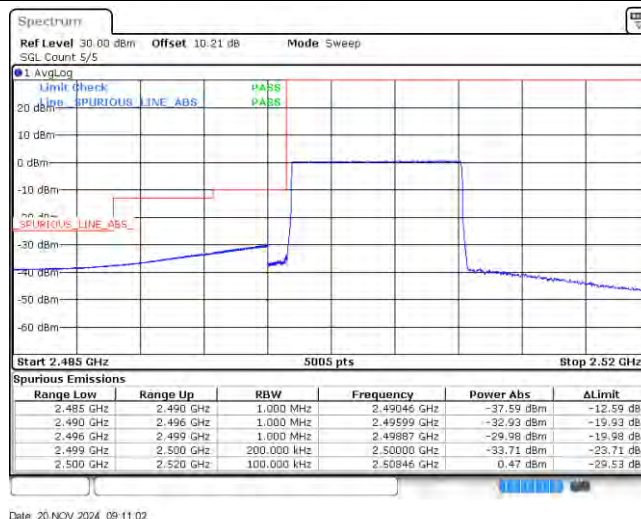
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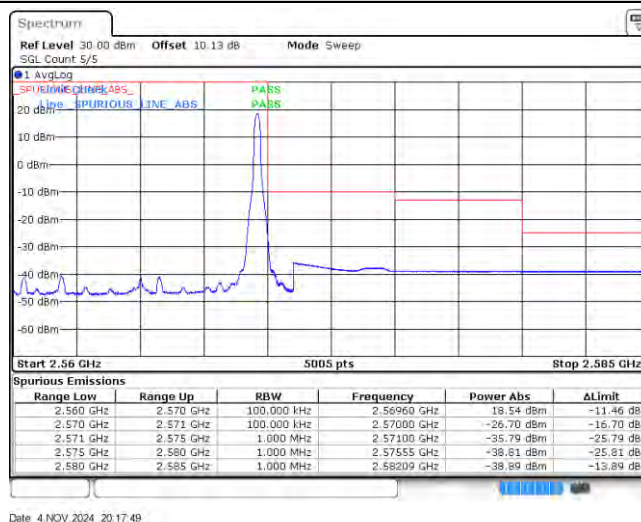
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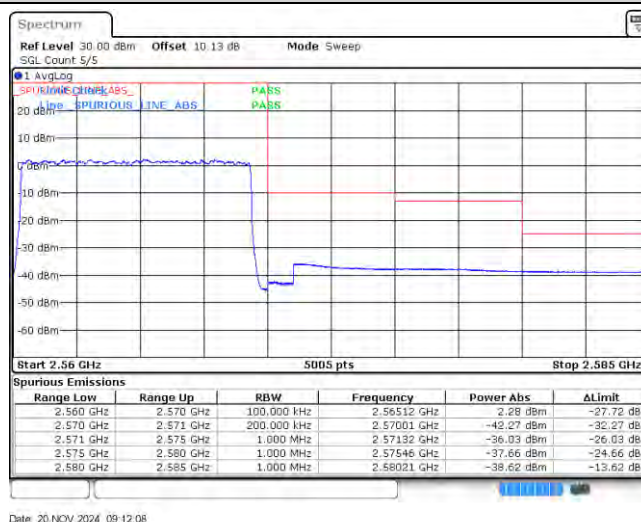
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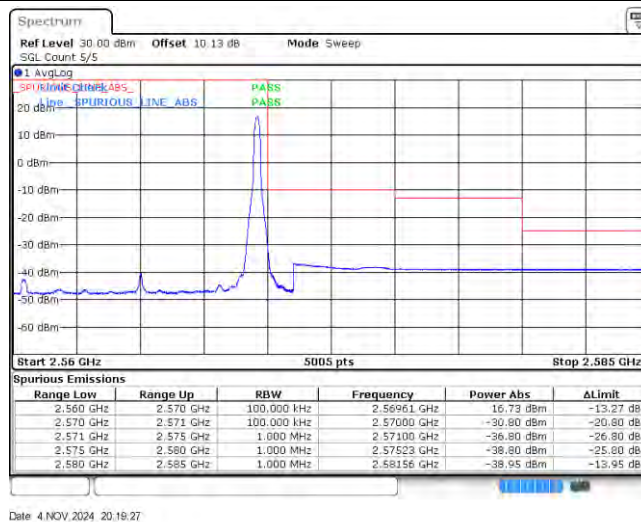
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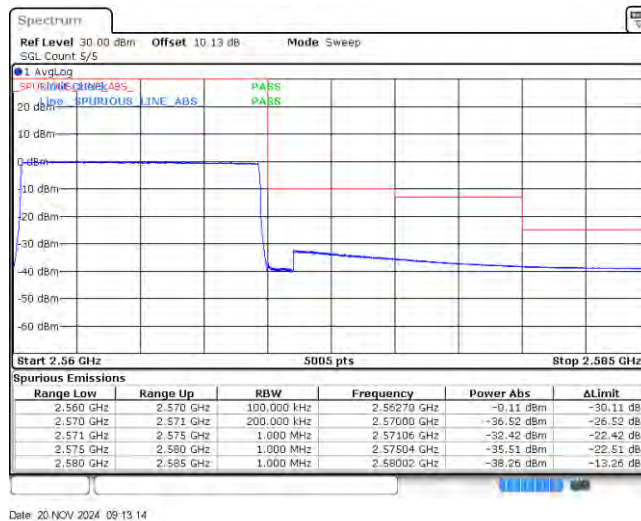
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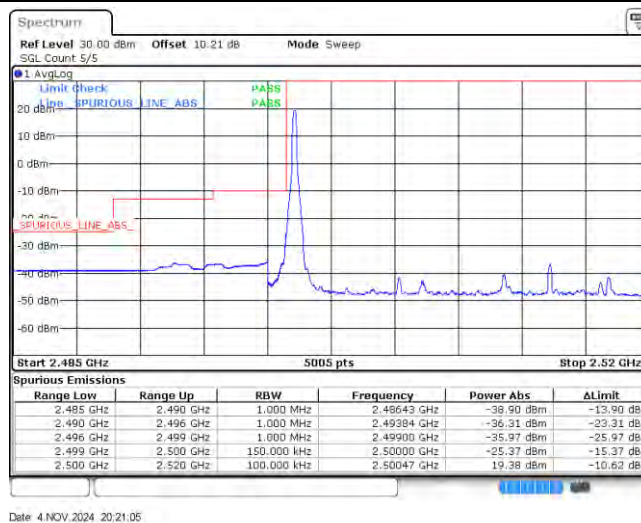
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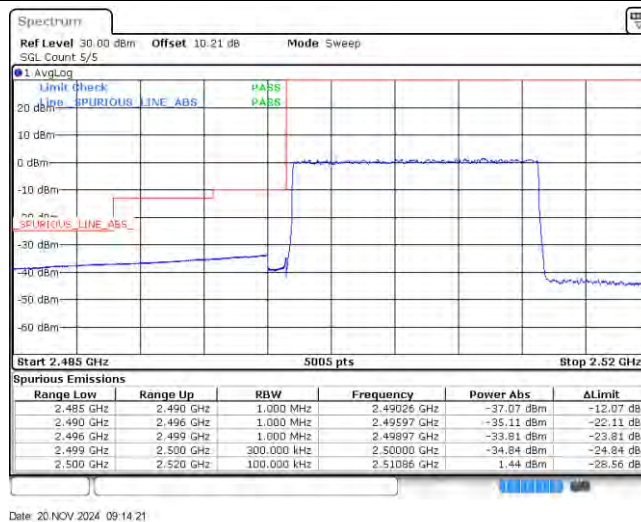
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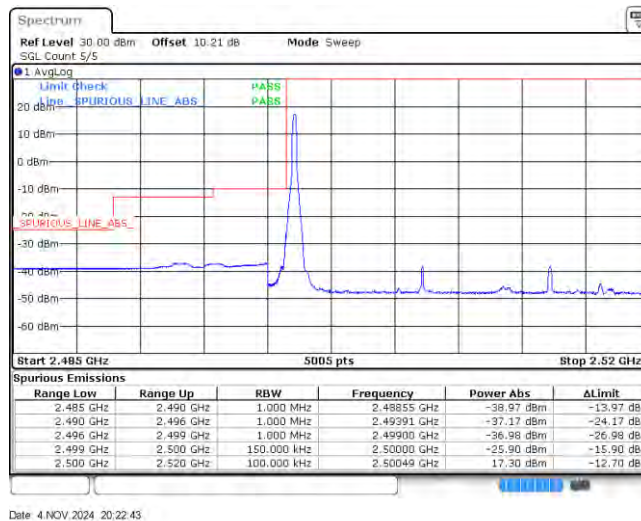
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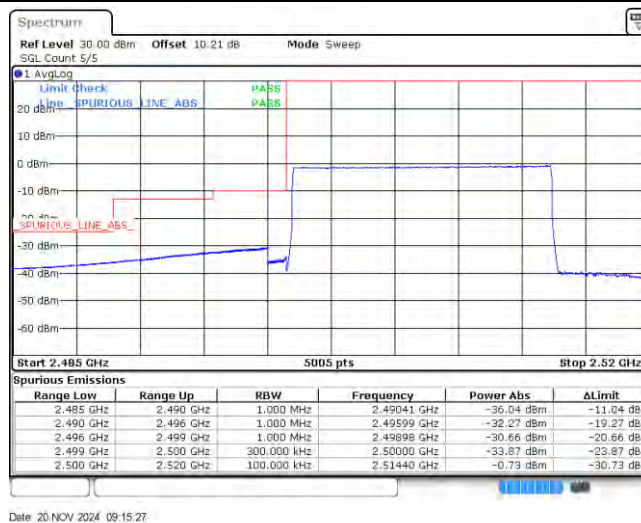
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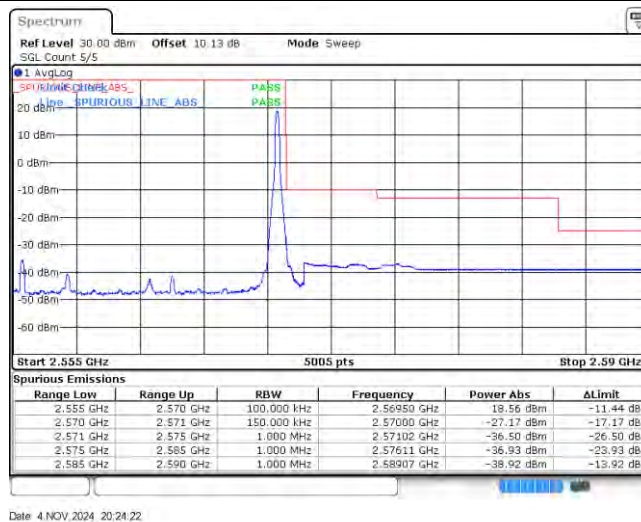
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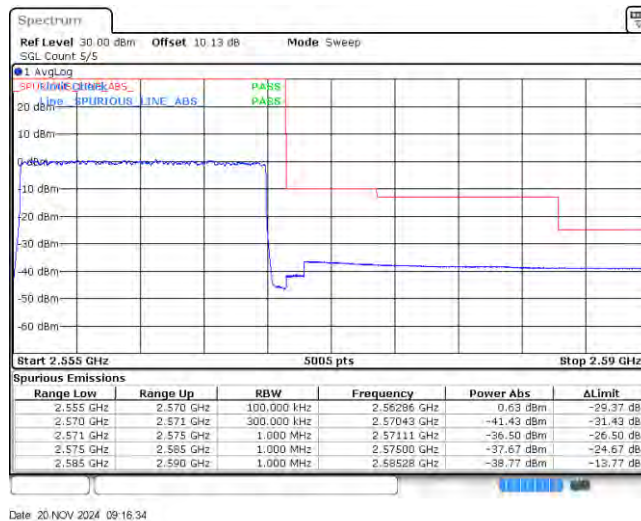
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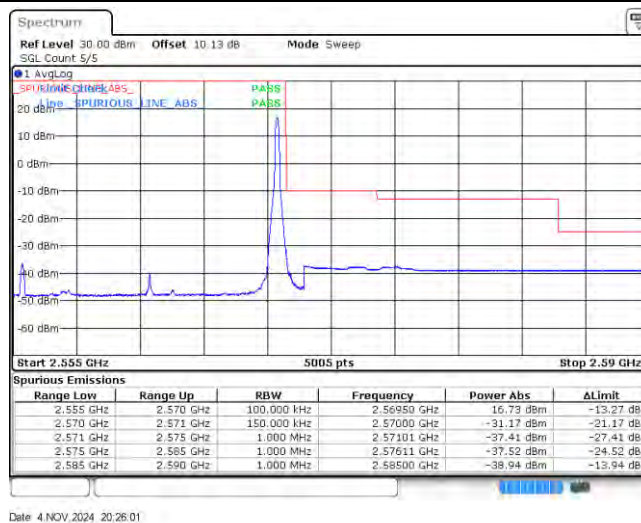
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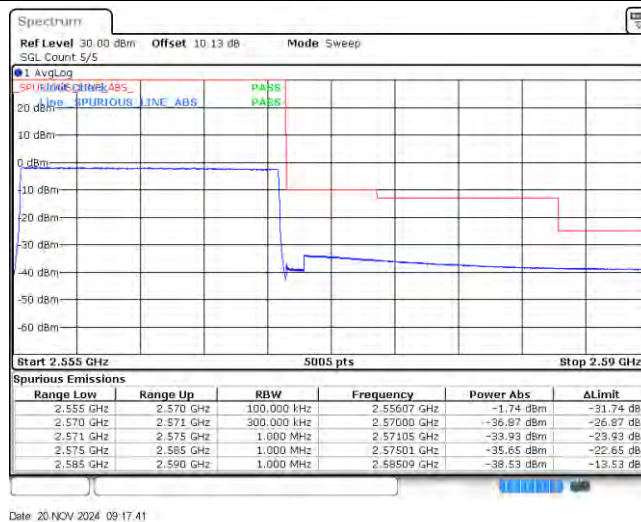
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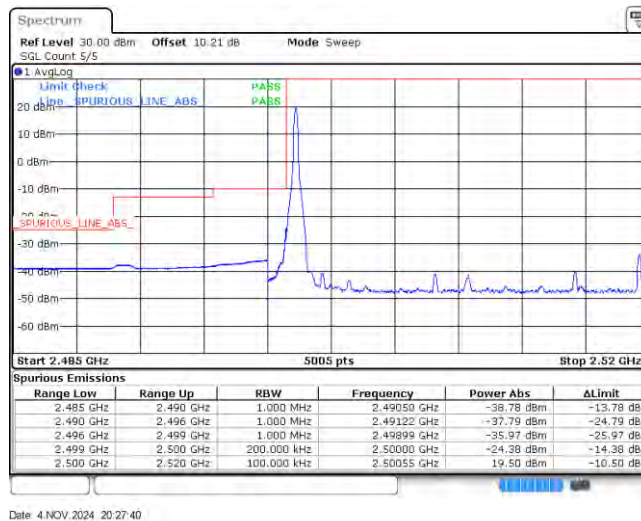
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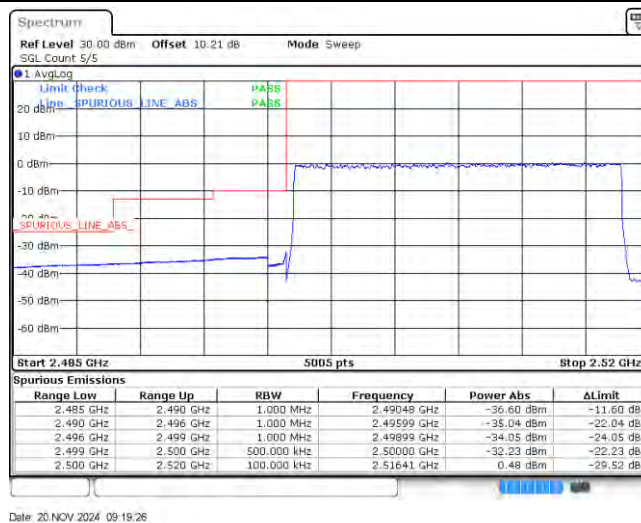
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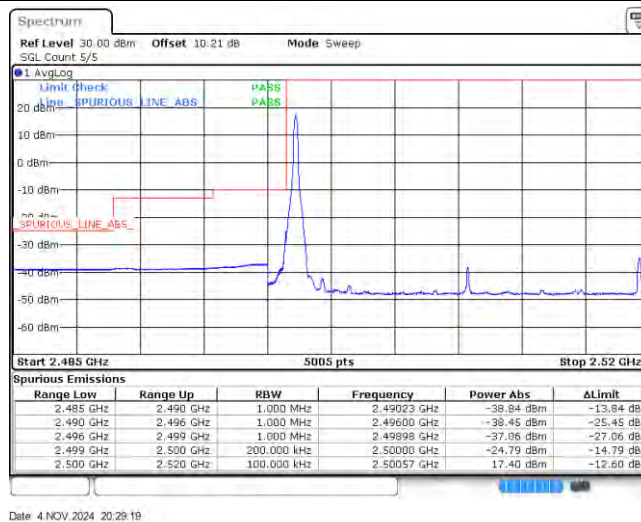
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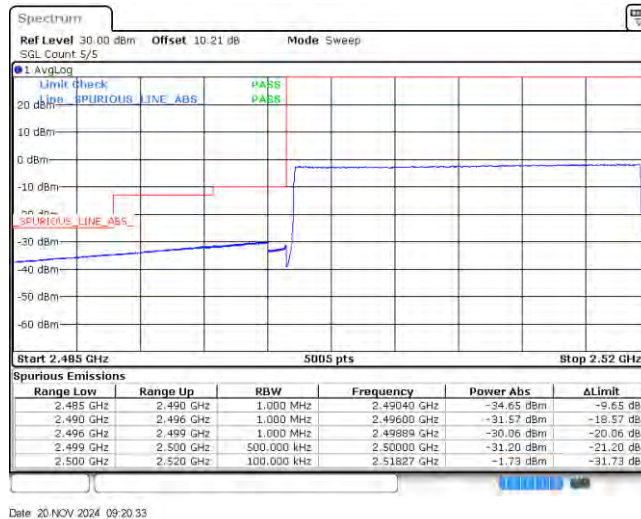
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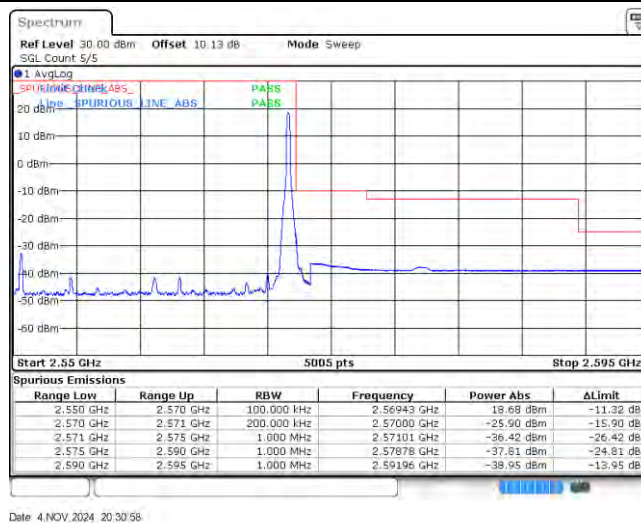
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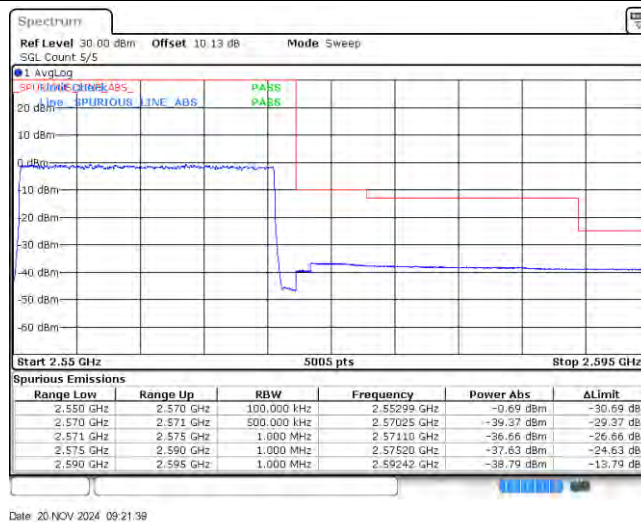
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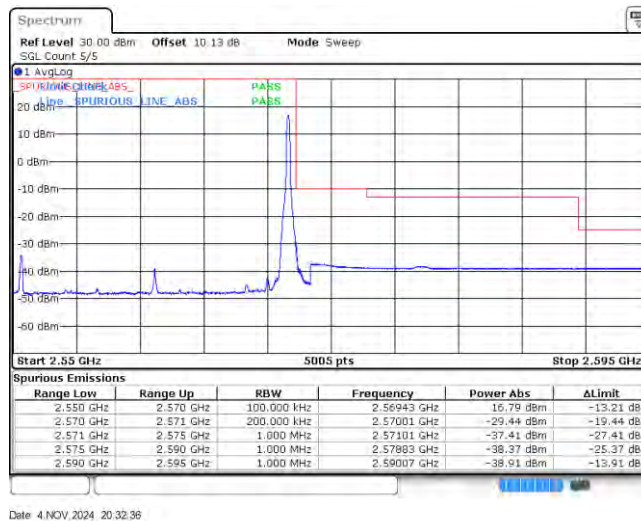
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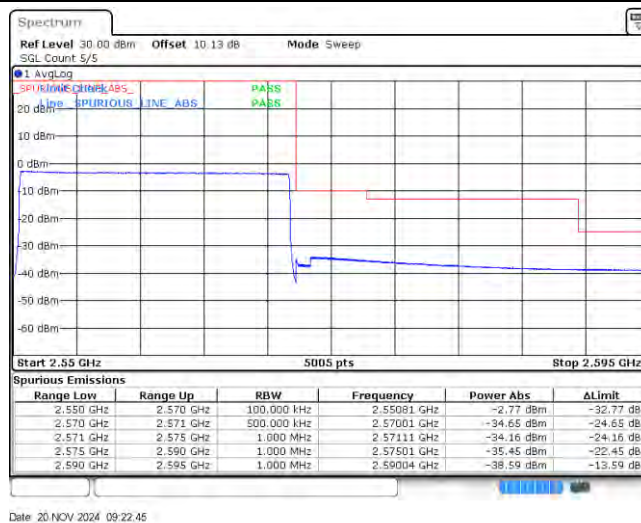
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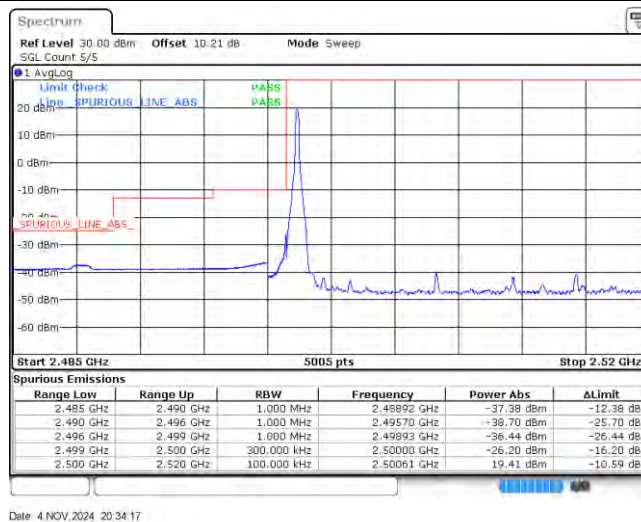
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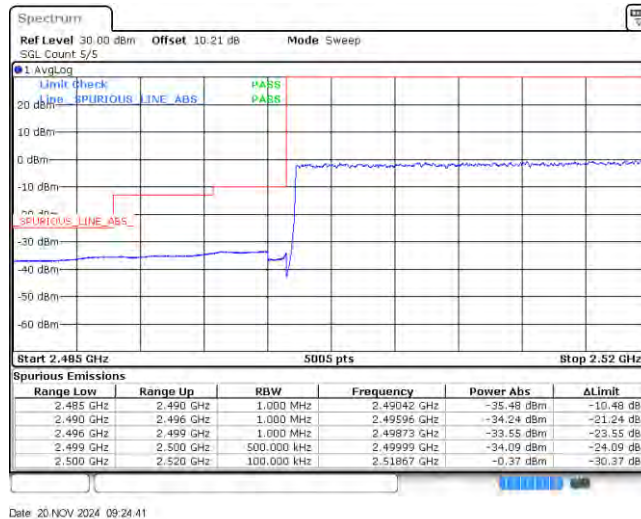
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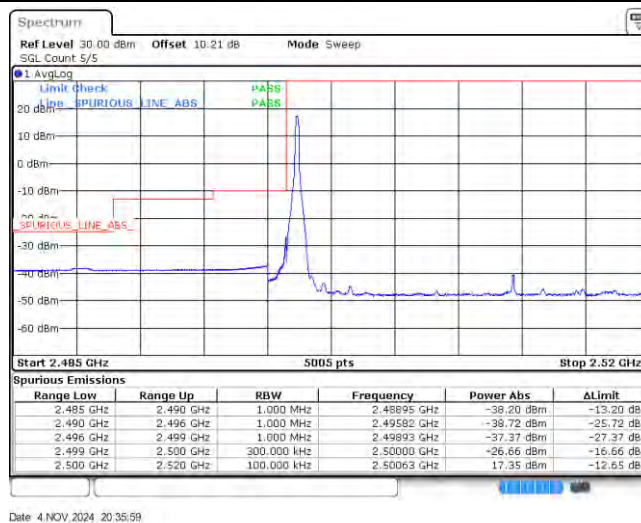
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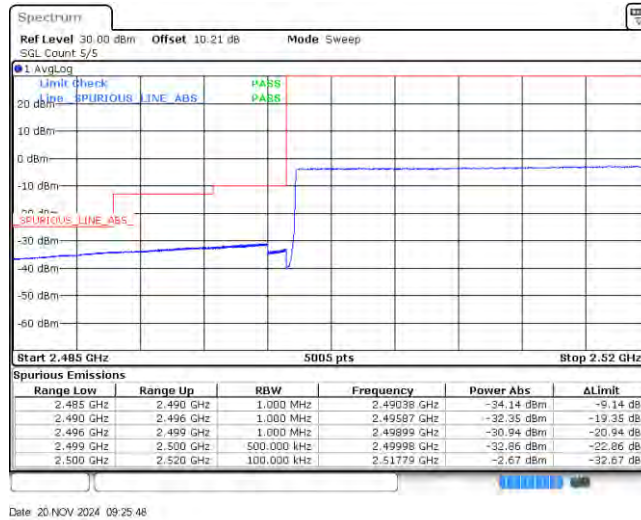
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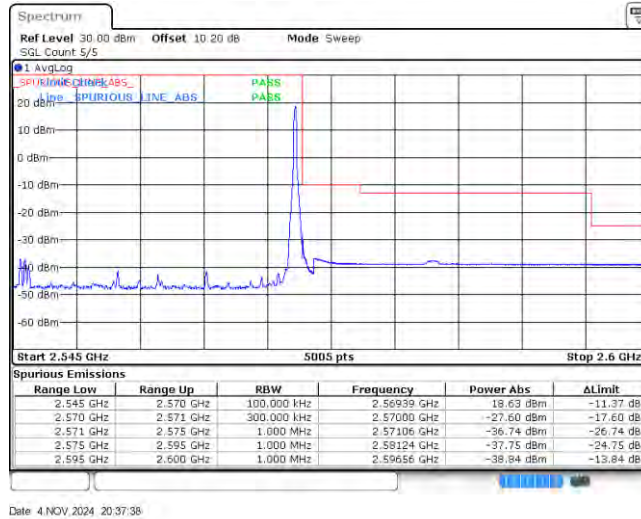
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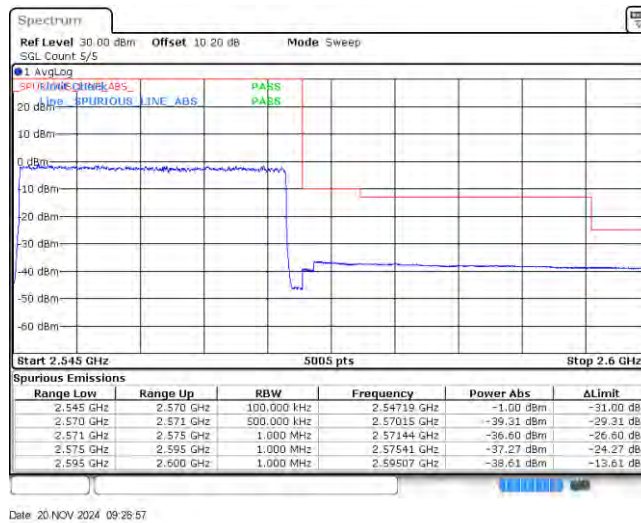
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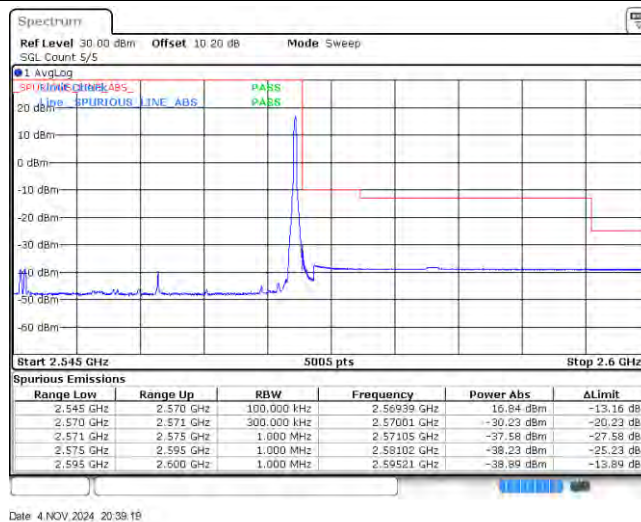
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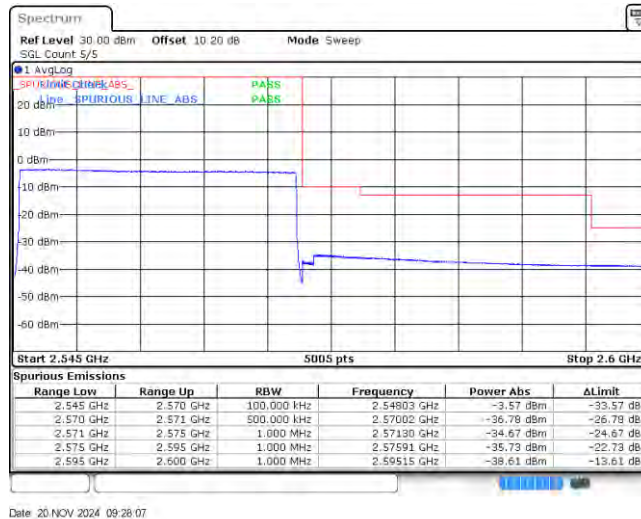
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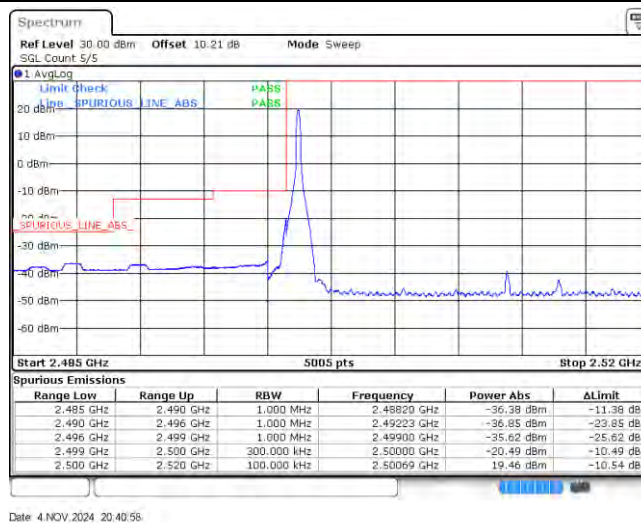
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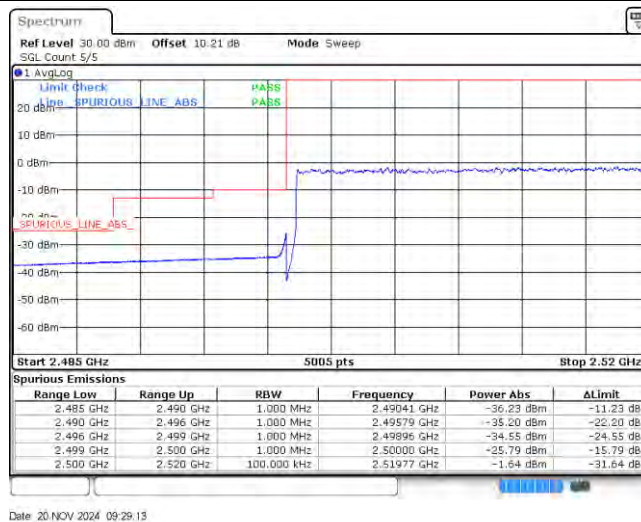
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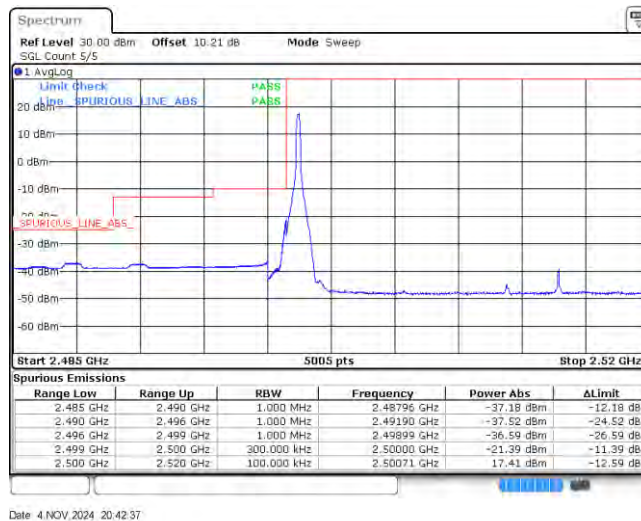
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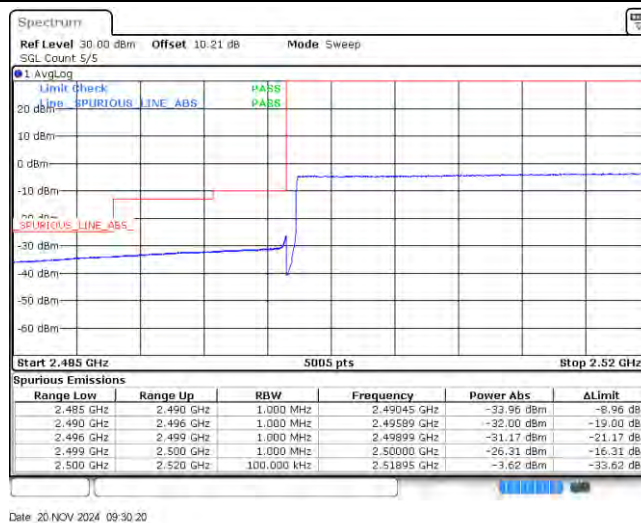
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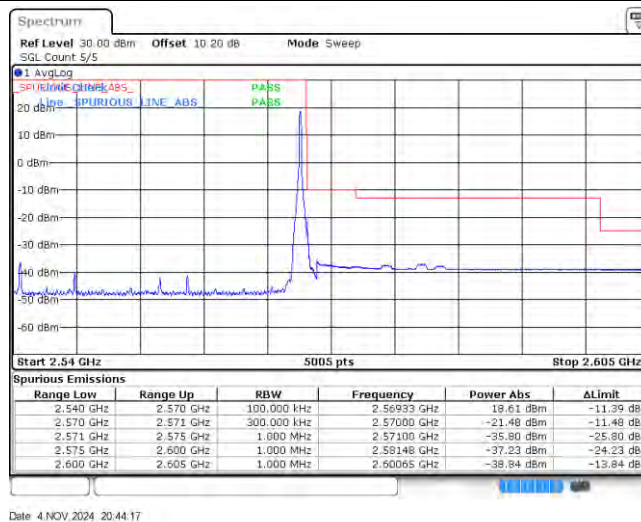
1-N7-PC3-15-30-L-3-DFT-QPSK-Outer\_Full-160@0-Ant4-2490.41-11.23--36.23-PASS



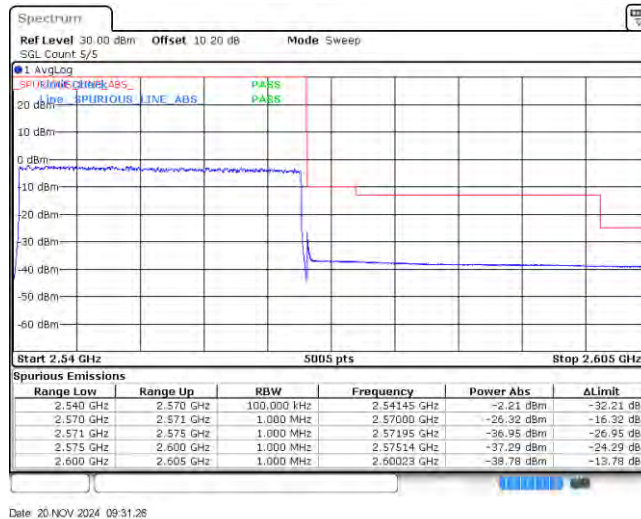
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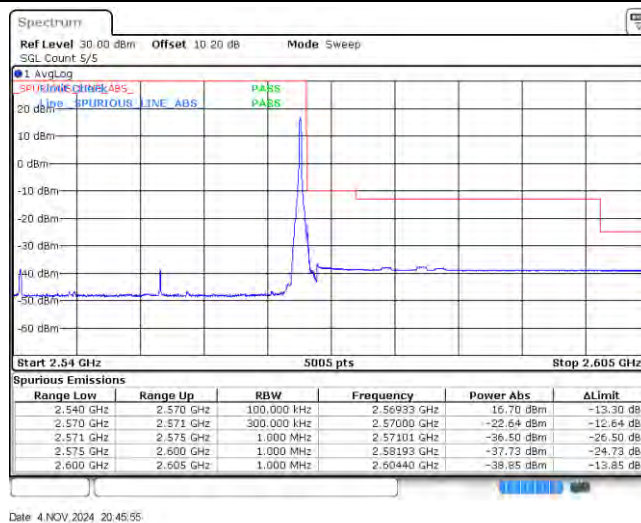
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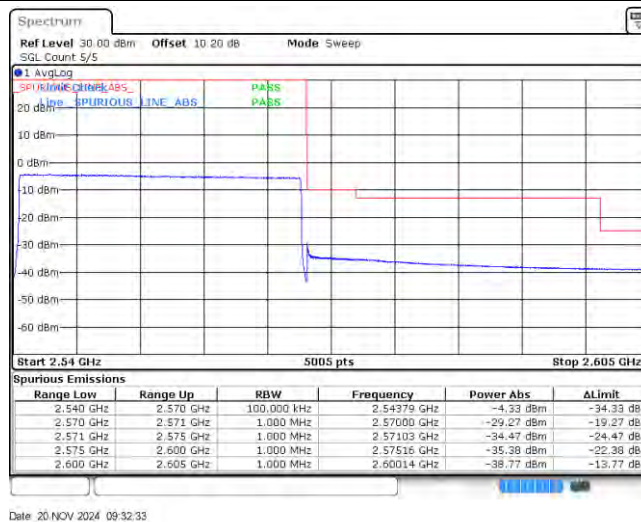
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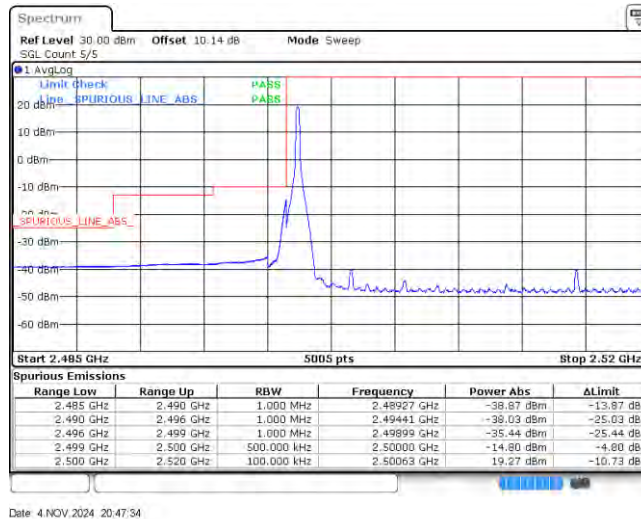
1-N7-PC3-15-30-H-3-DFT-QPSK-Outer\_Full-160@0-Ant4-2600.23-13.78--38.78-PASS



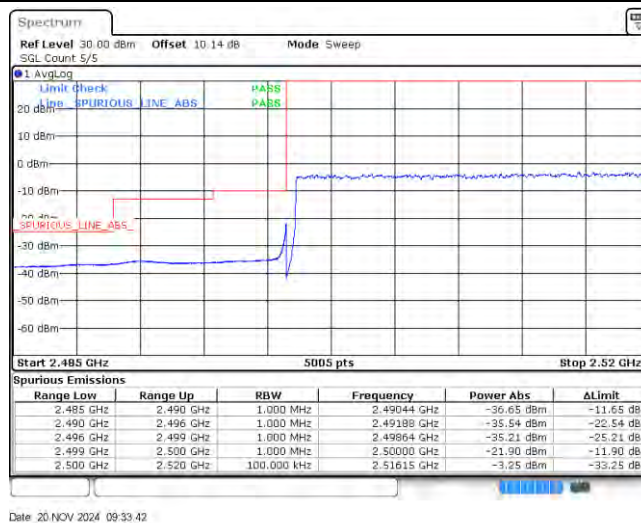
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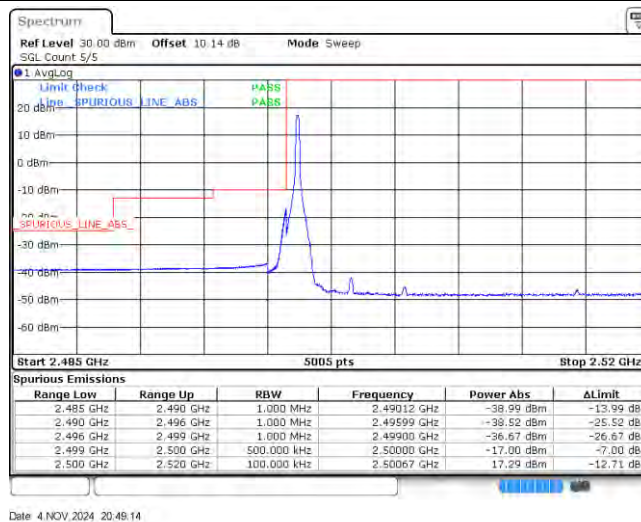
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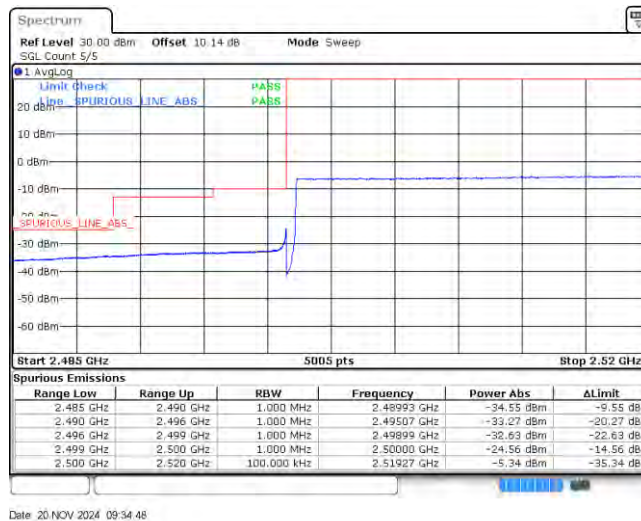
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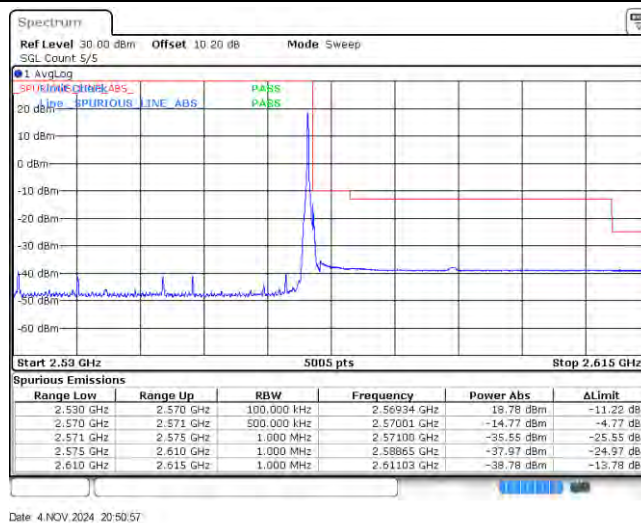
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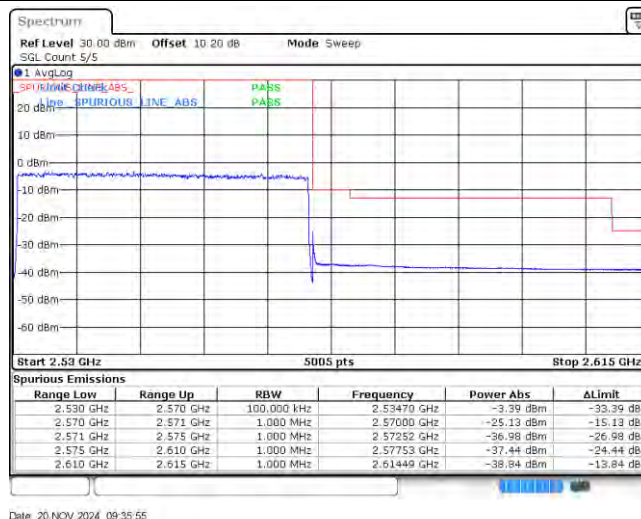
1-N7-PC3-15-40-L-4-CP-QPSK-Edge 1RB Left-1@0-Ant4-2500.00-7.00--17.00-PASS



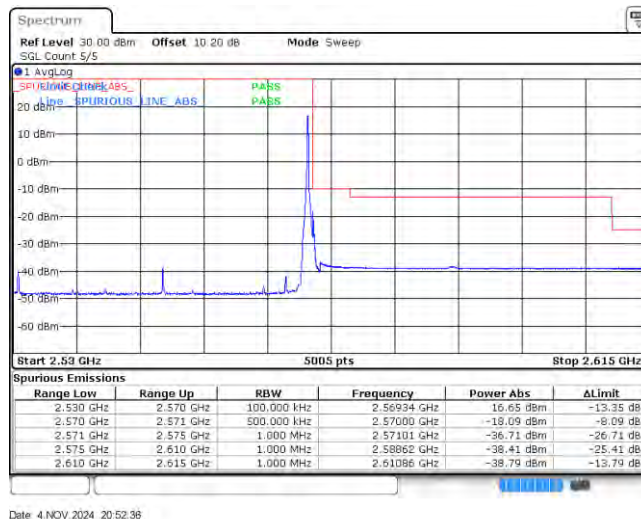
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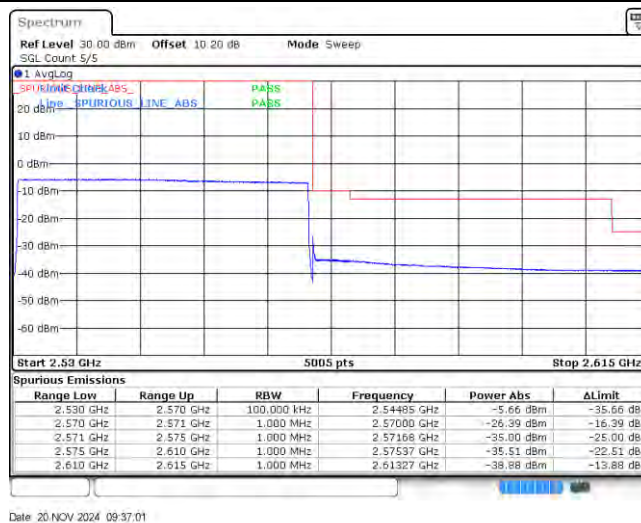
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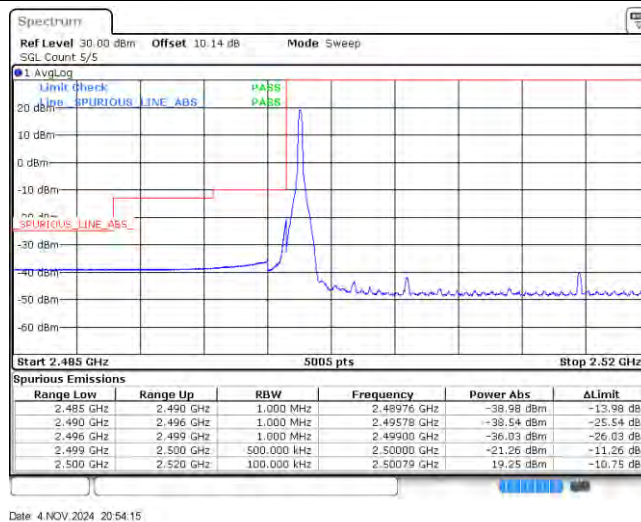
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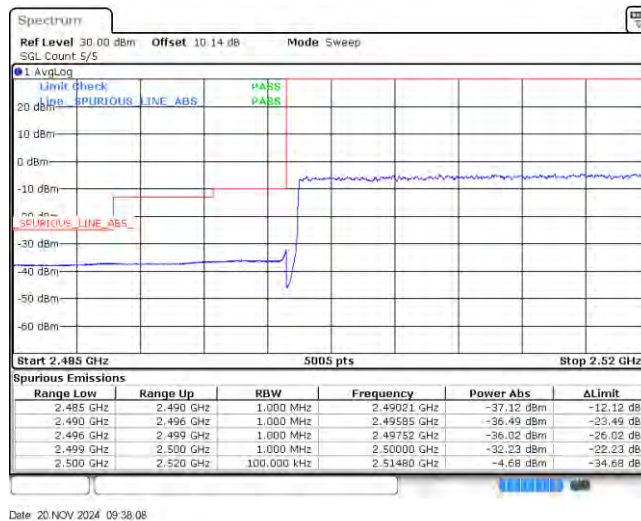
1-N7-PC3-15-40-H-5-CP-QPSK-Edge\_1RB\_Right-1@215-Ant4-2570.00-8.09--18.09-PASS



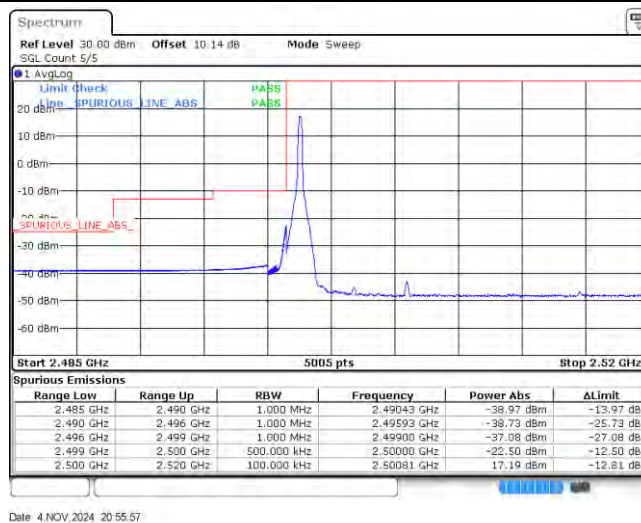
1-N7-PC3-15-40-H-6-CP-QPSK-Outer\_Full-216@0-Ant4-2613.27-13.88--38.88-PASS



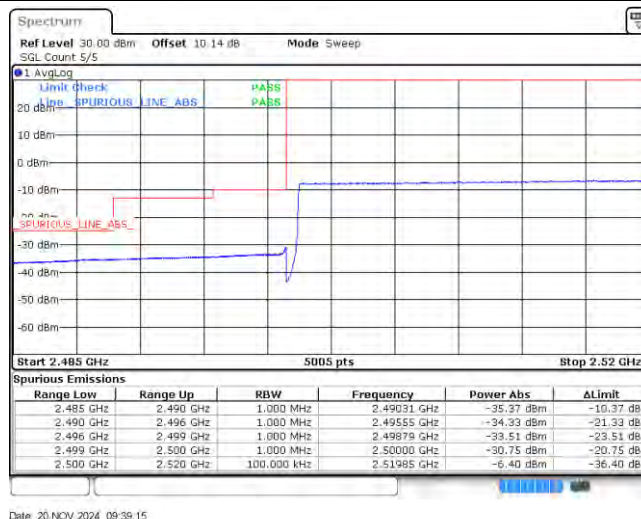
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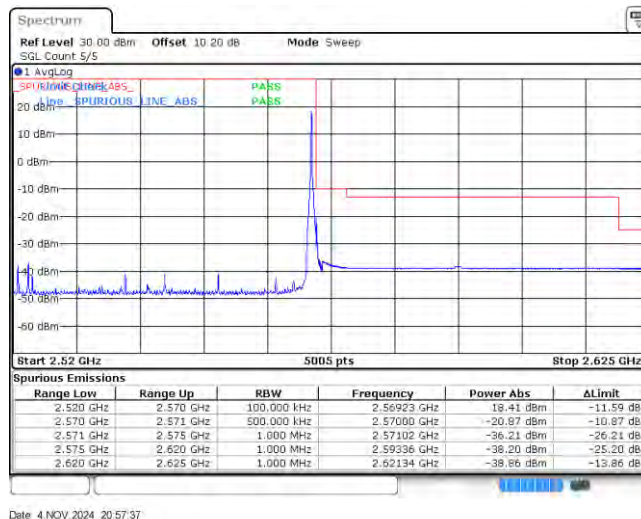
1-N7-PC3-15-50-L-3-DFT-QPSK-Outer\_Full-270@0-Ant4-2490.21-12.12--37.12-PASS



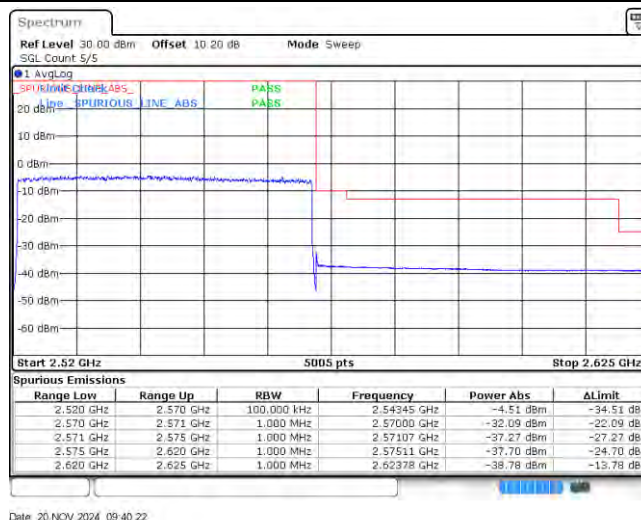
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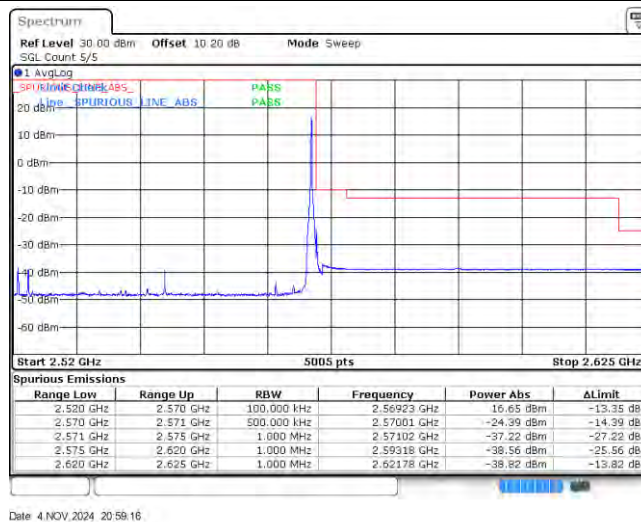
1-N7-PC3-15-50-L-6-CP-QPSK-Outer\_Full-270@0-Ant4-2490.31-10.37--35.37-PASS



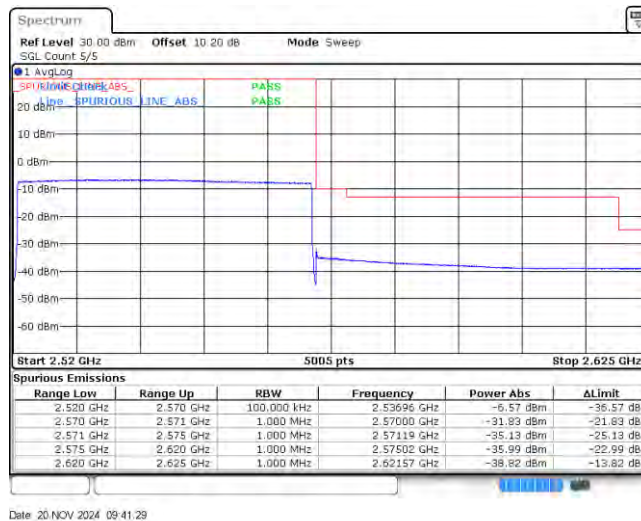
1-N7-PC3-15-50-H-2-DFT-QPSK-Edge\_1RB\_Right-1@269-Ant4-2570.00-10.87--20.87-PASS



1-N7-PC3-15-50-H-3-DFT-QPSK-Outer\_Full-270@0-Ant4-2623.78-13.78--38.78-PASS



1-N7-PC3-15-50-H-5-CP-QPSK-Edge\_1RB\_Right-1@269-Ant4-2621.78-13.82--38.82-PASS



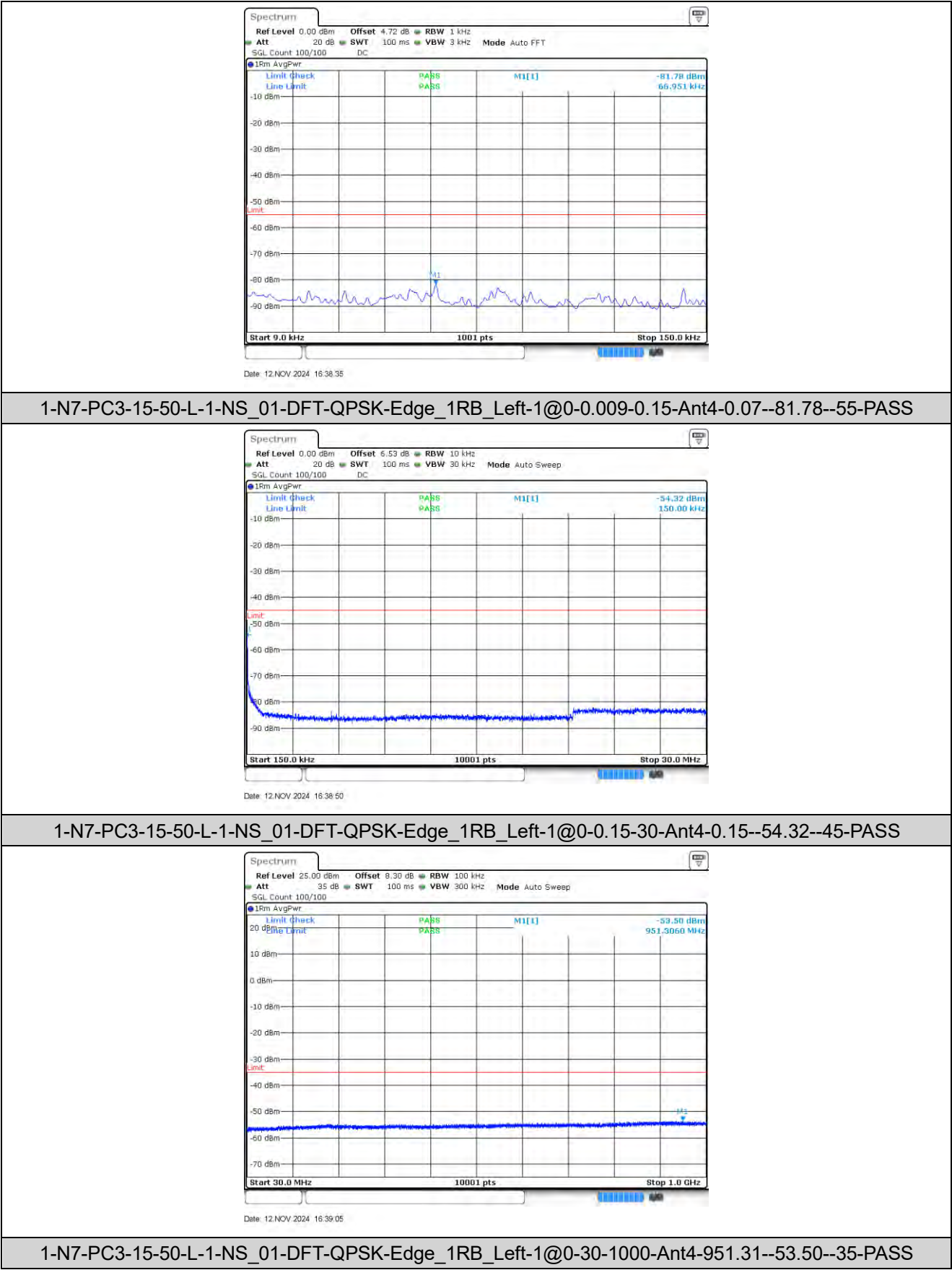
1-N7-PC3-15-50-H-6-CP-QPSK-Outer\_Full-270@0-Ant4-2621.57-13.82--38.82-PASS

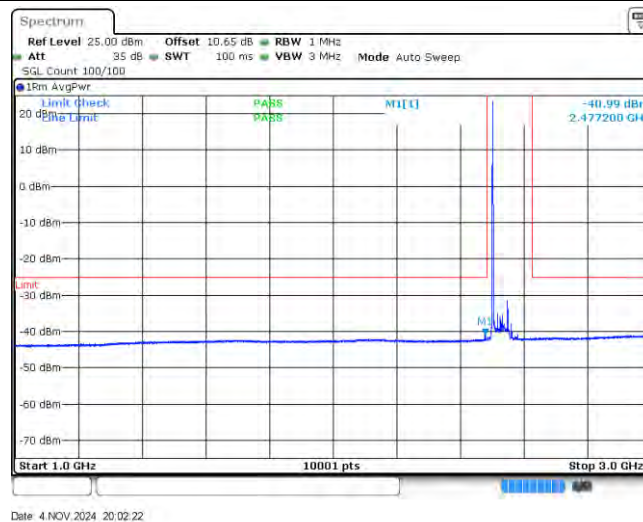
## Conducted Spurious Emission for SA

### Test Result

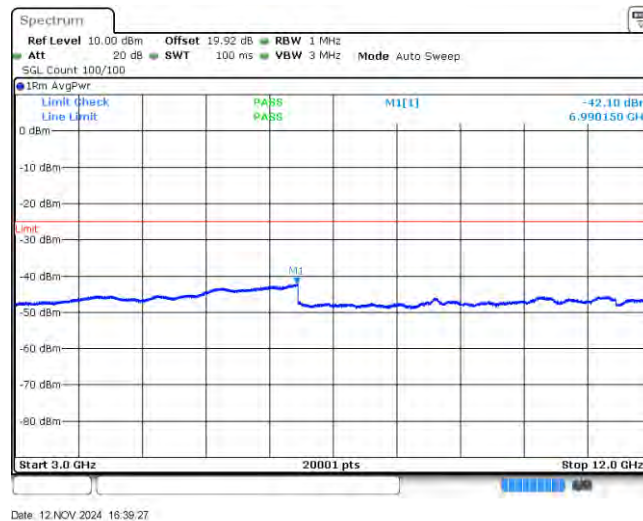
| Band | SCS | Bandwidth | Modulation | Channel | StartFreq | StopFreq | RB Config | Result (dBm) | Limit (dBm) | Verdict |
|------|-----|-----------|------------|---------|-----------|----------|-----------|--------------|-------------|---------|
| N7   | 15  | 50        | DFT-QPSK   | L       | 0.009     | 0.15     | 1@0       | -81.78       | -55         | PASS    |
| N7   | 15  | 50        | DFT-QPSK   | L       | 0.15      | 30       | 1@0       | -54.32       | -45         | PASS    |
| N7   | 15  | 50        | DFT-QPSK   | L       | 30        | 1000     | 1@0       | -53.50       | -35         | PASS    |
| N7   | 15  | 50        | DFT-QPSK   | L       | 1000      | 3000     | 1@0       | -40.99       | -25         | PASS    |
| N7   | 15  | 50        | DFT-QPSK   | L       | 3000      | 12000    | 1@0       | -42.10       | -25         | PASS    |
| N7   | 15  | 50        | DFT-QPSK   | L       | 12000     | 26500    | 1@0       | -39.49       | -25         | PASS    |
| N7   | 15  | 50        | DFT-QPSK   | M       | 0.009     | 0.15     | 1@0       | -59.15       | -55         | PASS    |
| N7   | 15  | 50        | DFT-QPSK   | M       | 0.15      | 30       | 1@0       | -75.77       | -45         | PASS    |
| N7   | 15  | 50        | DFT-QPSK   | M       | 30        | 1000     | 1@0       | -53.52       | -35         | PASS    |
| N7   | 15  | 50        | DFT-QPSK   | M       | 1000      | 3000     | 1@0       | -41.06       | -25         | PASS    |
| N7   | 15  | 50        | DFT-QPSK   | M       | 3000      | 12000    | 1@0       | -42.17       | -25         | PASS    |
| N7   | 15  | 50        | DFT-QPSK   | M       | 12000     | 26500    | 1@0       | -39.51       | -25         | PASS    |
| N7   | 15  | 50        | DFT-QPSK   | H       | 0.009     | 0.15     | 1@0       | -79.93       | -55         | PASS    |
| N7   | 15  | 50        | DFT-QPSK   | H       | 0.15      | 30       | 1@0       | -76.36       | -45         | PASS    |
| N7   | 15  | 50        | DFT-QPSK   | H       | 30        | 1000     | 1@0       | -53.62       | -35         | PASS    |
| N7   | 15  | 50        | DFT-QPSK   | H       | 1000      | 3000     | 1@0       | -41.05       | -25         | PASS    |
| N7   | 15  | 50        | DFT-QPSK   | H       | 3000      | 12000    | 1@0       | -42.17       | -25         | PASS    |
| N7   | 15  | 50        | DFT-QPSK   | H       | 12000     | 26500    | 1@0       | -39.72       | -25         | PASS    |

Test Graphs

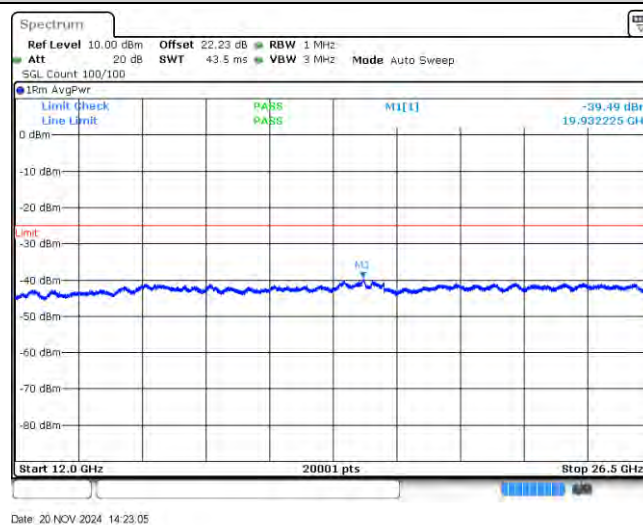




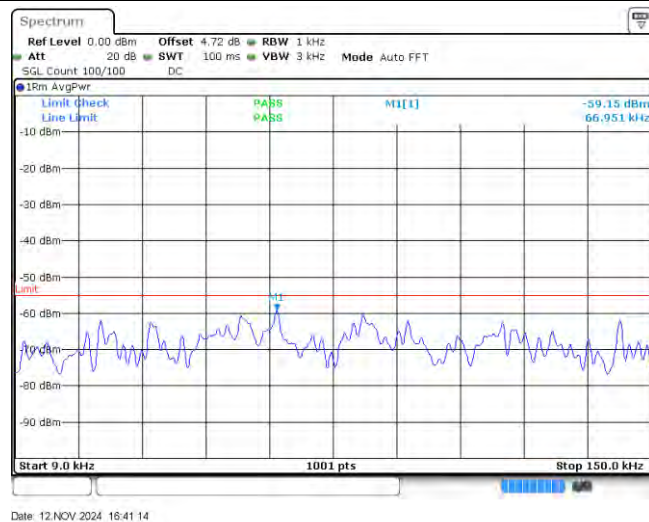
1-N7-PC3-15-50-L-1-NS\_01-DFT-QPSK-Edge\_1RB\_Left-1@0-1000-3000-Ant4-2477.20--40.99--25-PASS



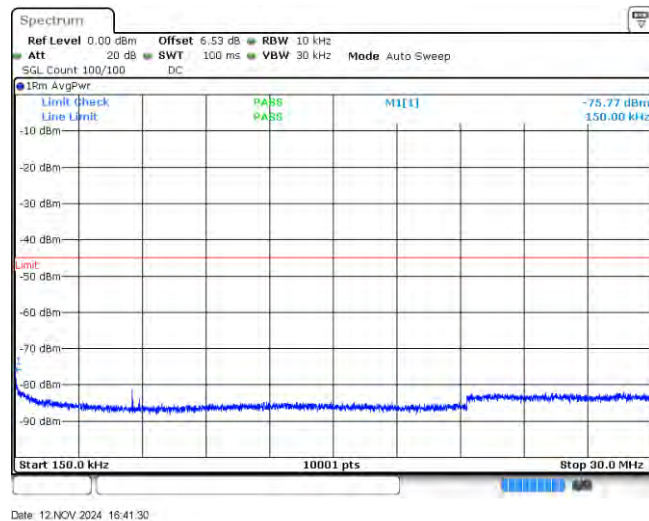
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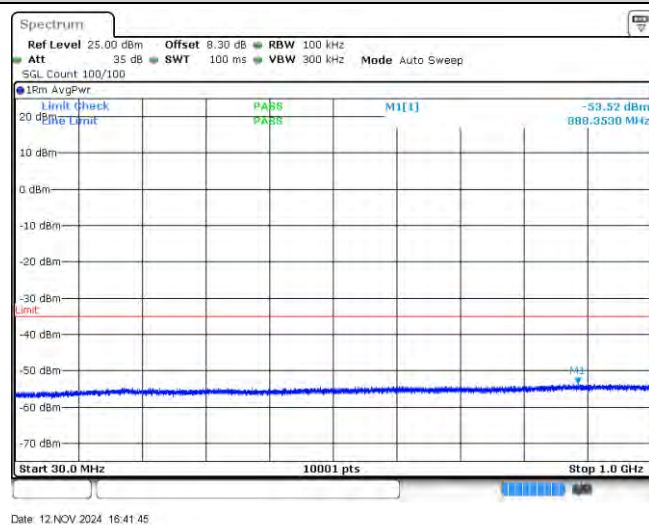
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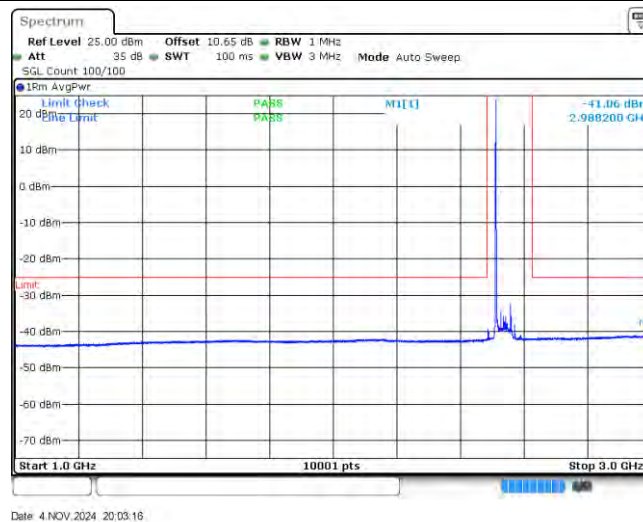
1-N7-PC3-15-50-M-1-NS\_01-DFT-QPSK-Edge\_1RB\_Left-1@0-0.009-0.15-Ant4-0.07--59.15--55-PASS



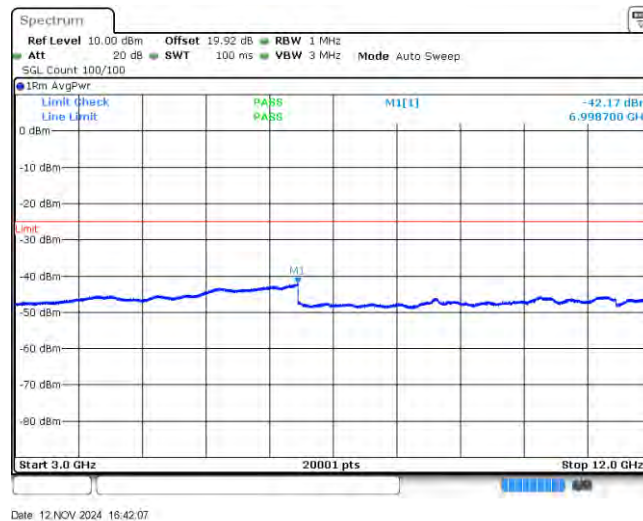
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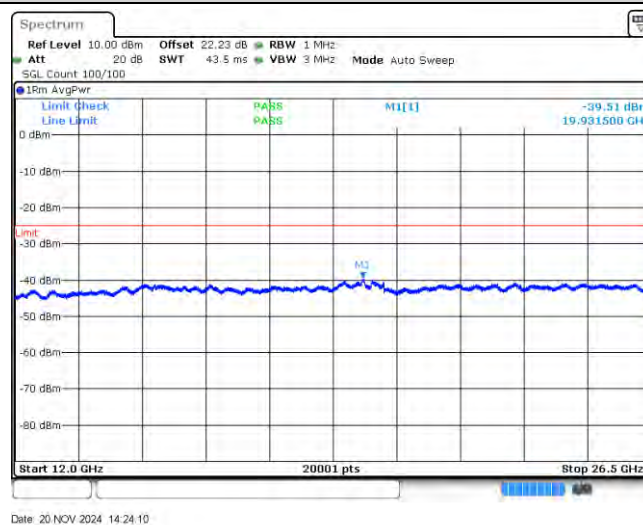
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1-N7-PC3-15-50-M-1-NS\_01-DFT-QPSK-Edge\_1RB\_Left-1@0-1000-3000-Ant4-2988.20--41.06--25-PASS

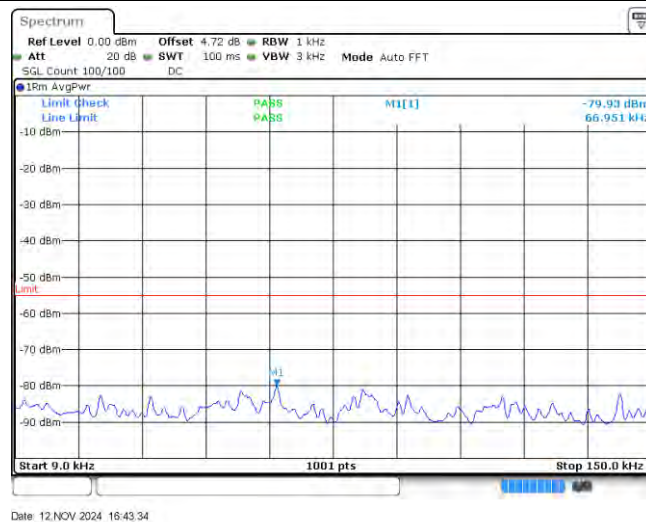


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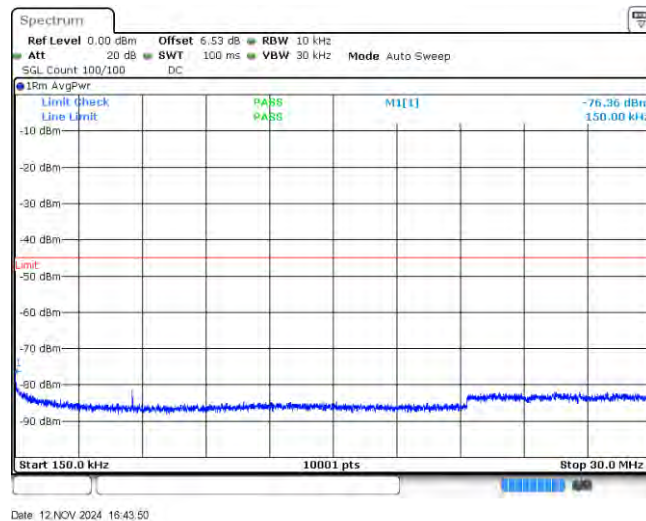


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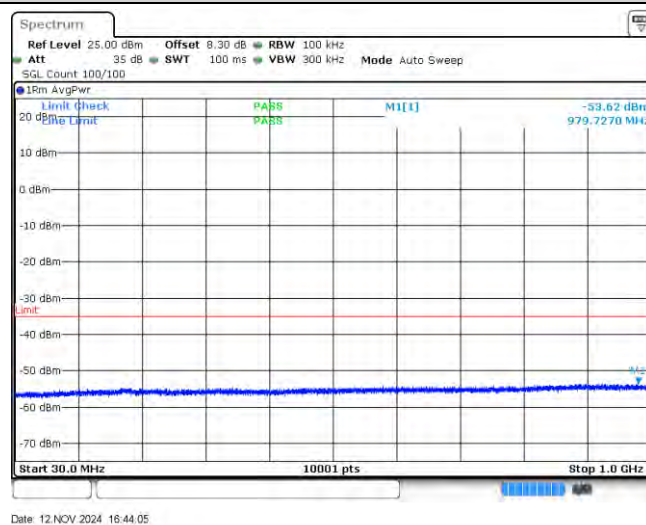
SS



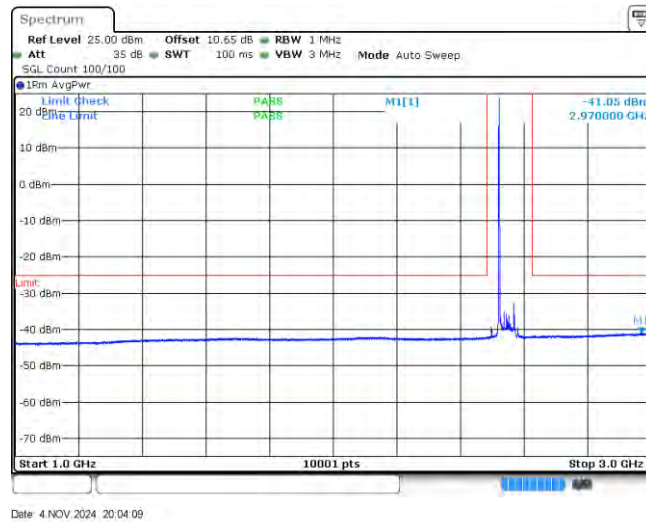
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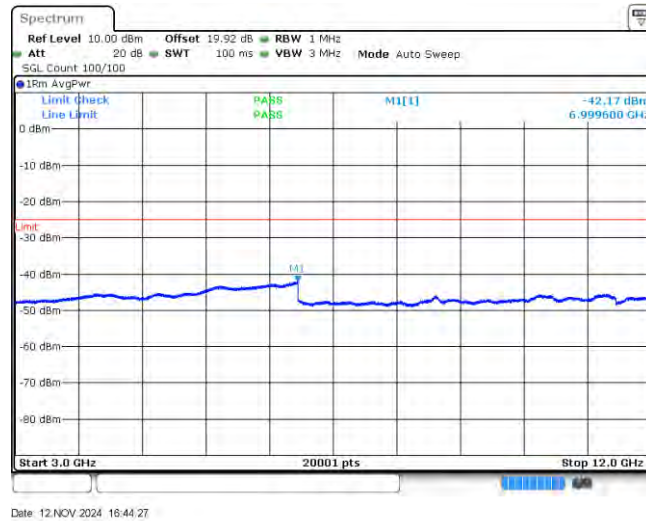
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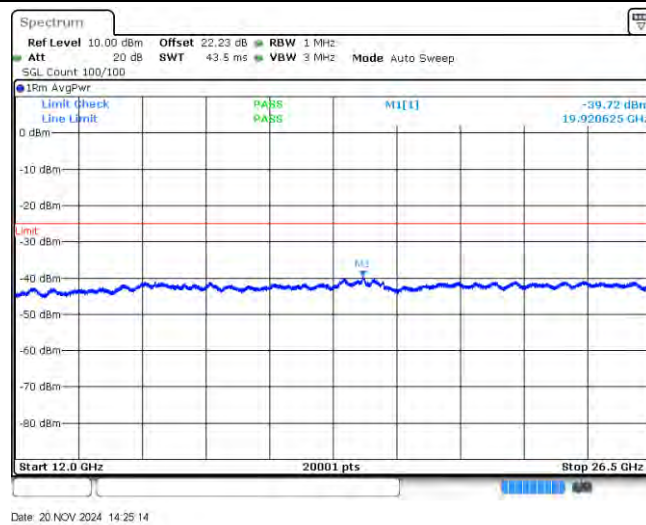
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1-N7-PC3-15-50-H-1-NS\_01-DFT-QPSK-Edge\_1RB\_Left-1@0-1000-3000-Ant4-2970.00--41.05--25-PASS



1-N7-PC3-15-50-H-1-NS\_01-DFT-QPSK-Edge\_1RB\_Left-1@0-3000-12000-Ant4-6999.60--42.17--25-PASS



1-N7-PC3-15-50-H-1-NS\_01-DFT-QPSK-Edge\_1RB\_Left-1@0-12000-26500-Ant4-19920.63--39.72--25-PAS

## Frequency Stability for SA

### Test Result

#### Frequency Error VS. Voltage

| Voltage |     |           |            |         |           |               |                 |               |                 |         |
|---------|-----|-----------|------------|---------|-----------|---------------|-----------------|---------------|-----------------|---------|
| Band    | SCS | Bandwidth | Modulation | Channel | RB Config | Voltage (Vdc) | Temperature(°C) | Deviation(Hz) | Deviation (ppm) | Verdict |
| N7      | 15  | 50        | DFT-QPSK   | M       | 270@0     | NV            | NT              | 3.80          | 0.00150         | PASS    |
| N7      | 15  | 50        | DFT-QPSK   | M       | 270@0     | LV            | NT              | -6.09         | -0.00240        | PASS    |
| N7      | 15  | 50        | DFT-QPSK   | M       | 270@0     | HV            | NT              | 4.94          | 0.00195         | PASS    |
| N7      | 15  | 50        | CP-QPSK    | M       | 270@0     | NV            | NT              | -6.53         | -0.00258        | PASS    |
| N7      | 15  | 50        | CP-QPSK    | M       | 270@0     | LV            | NT              | -13.93        | -0.00550        | PASS    |
| N7      | 15  | 50        | CP-QPSK    | M       | 270@0     | HV            | NT              | -5.57         | -0.00220        | PASS    |

#### Frequency Error VS. Temperature

| Temperature |     |           |            |         |           |               |                 |               |                 |         |
|-------------|-----|-----------|------------|---------|-----------|---------------|-----------------|---------------|-----------------|---------|
| Band        | SCS | Bandwidth | Modulation | Channel | RB Config | Voltage (Vdc) | Temperature(°C) | Deviation(Hz) | Deviation (ppm) | Verdict |
| N7          | 15  | 50        | DFT-QPSK   | M       | 270@0     | NV            | -20             | 2.546000      | 0.001004        | PASS    |
| N7          | 15  | 50        | DFT-QPSK   | M       | 270@0     | NV            | 50              | 4.626000      | 0.001825        | PASS    |
| N7          | 15  | 50        | DFT-QPSK   | M       | 270@0     | NV            | 40              | 3.954000      | 0.001560        | PASS    |
| N7          | 15  | 50        | DFT-QPSK   | M       | 270@0     | NV            | 10              | 4.327000      | 0.001707        | PASS    |
| N7          | 15  | 50        | DFT-QPSK   | M       | 270@0     | NV            | -10             | 3.688000      | 0.001455        | PASS    |
| N7          | 15  | 50        | DFT-QPSK   | M       | 270@0     | NV            | -30             | 5.380000      | 0.002122        | PASS    |
| N7          | 15  | 50        | DFT-QPSK   | M       | 270@0     | NV            | 30              | 5.207000      | 0.002054        | PASS    |
| N7          | 15  | 50        | DFT-QPSK   | M       | 270@0     | NV            | 0               | 5.958000      | 0.002350        | PASS    |
| N7          | 15  | 50        | DFT-QPSK   | M       | 270@0     | NV            | 20              | 3.871000      | 0.001527        | PASS    |
| N7          | 15  | 50        | CP-QPSK    | M       | 270@0     | NV            | 0               | -2.245000     | -0.000886       | PASS    |
| N7          | 15  | 50        | CP-QPSK    | M       | 270@0     | NV            | 10              | -0.592000     | -0.000234       | PASS    |
| N7          | 15  | 50        | CP-QPSK    | M       | 270@0     | NV            | -10             | -0.219000     | -0.000086       | PASS    |
| N7          | 15  | 50        | CP-QPSK    | M       | 270@0     | NV            | -20             | -2.765000     | -0.001091       | PASS    |
| N7          | 15  | 50        | CP-QPSK    | M       | 270@0     | NV            | 50              | -2.942000     | -0.001161       | PASS    |
| N7          | 15  | 50        | CP-QPSK    | M       | 270@0     | NV            | 30              | -2.289000     | -0.000903       | PASS    |
| N7          | 15  | 50        | CP-QPSK    | M       | 270@0     | NV            | -30             | -4.055000     | -0.001600       | PASS    |
| N7          | 15  | 50        | CP-QPSK    | M       | 270@0     | NV            | 40              | -1.415000     | -0.000558       | PASS    |
| N7          | 15  | 50        | CP-QPSK    | M       | 270@0     | NV            | 20              | -2.312000     | -0.000912       | PASS    |

## Field Strength of Spurious Radiation

| NR N7 ANT1-Low channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#1 |            |             |                 |                  |                 |                    |                    |        |
|------------------------------------------------------------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)                                                  | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 5002.0                                                           | -62.62     | -25         | -37.62          | -68.19           | 4.57            | 10.14              | Horizontal         | Pass   |
| 7503.0                                                           | -60.54     | -25         | -35.54          | -67.34           | 4.94            | 11.74              | Horizontal         | Pass   |
| 10004.0                                                          | -54.37     | -25         | -29.37          | -61.94           | 5.46            | 13.03              | Horizontal         | Pass   |
| 5002.0                                                           | -62.71     | -25         | -37.71          | -68.28           | 4.57            | 10.14              | Vertical           | Pass   |
| 7503.0                                                           | -50.37     | -25         | -25.37          | -57.17           | 4.94            | 11.74              | Vertical           | Pass   |
| 10004.0                                                          | -44.47     | -25         | -19.47          | -52.04           | 5.46            | 13.03              | Vertical           | Pass   |

| NR N7 ANT1-Middle channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#1 |            |             |                 |                  |                 |                    |                    |        |
|---------------------------------------------------------------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)                                                     | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 5052.0                                                              | -62.38     | -25         | -37.38          | -67.96           | 4.59            | 10.17              | Horizontal         | Pass   |
| 7578.0                                                              | -58.2      | -25         | -33.2           | -65.08           | 4.95            | 11.83              | Horizontal         | Pass   |
| 10104.0                                                             | -55.96     | -25         | -30.96          | -63.53           | 5.48            | 13.05              | Horizontal         | Pass   |
| 5052.0                                                              | -62.51     | -25         | -37.51          | -68.09           | 4.59            | 10.17              | Vertical           | Pass   |
| 7578.0                                                              | -55.21     | -25         | -30.21          | -62.09           | 4.95            | 11.83              | Vertical           | Pass   |
| 10104.0                                                             | -48.33     | -25         | -23.33          | -55.9            | 5.48            | 13.05              | Vertical           | Pass   |

| NR N7 ANT1-High channel, Modulation: QPSK, Bandwidth:20MHz, 1RB#1 |            |             |                 |                  |                 |                    |                    |        |
|-------------------------------------------------------------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)                                                   | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 5102.0                                                            | -63.17     | -25         | -38.17          | -68.77           | 4.6             | 10.2               | Horizontal         | Pass   |
| 7653.0                                                            | -58.58     | -25         | -33.58          | -65.55           | 4.95            | 11.92              | Horizontal         | Pass   |
| 10204.0                                                           | -53.88     | -25         | -28.88          | -61.46           | 5.49            | 13.07              | Horizontal         | Pass   |
| 5102.0                                                            | -63.07     | -25         | -38.07          | -68.67           | 4.6             | 10.2               | Vertical           | Pass   |
| 7653.0                                                            | -60.11     | -25         | -35.11          | -67.08           | 4.95            | 11.92              | Vertical           | Pass   |
| 10204.0                                                           | -56.49     | -25         | -31.49          | -64.07           | 5.49            | 13.07              | Vertical           | Pass   |

| NSA_4A_n7A-Low channel |            |             |                 |                  |                 |                    |                    |        |
|------------------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)        | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 5002.0                 | -59.85     | -25         | -34.85          | -65.42           | 4.57            | 10.14              | Horizontal         | Pass   |
| 7503.0                 | -58.14     | -25         | -33.14          | -64.94           | 4.94            | 11.74              | Horizontal         | Pass   |
| 10004.0                | -51.09     | -25         | -26.09          | -58.66           | 5.46            | 13.03              | Horizontal         | Pass   |
| 5002.0                 | -62.17     | -25         | -37.17          | -67.74           | 4.57            | 10.14              | Vertical           | Pass   |
| 7503.0                 | -54.28     | -25         | -29.28          | -61.08           | 4.94            | 11.74              | Vertical           | Pass   |
| 10004.0                | -49.67     | -25         | -24.67          | -57.24           | 5.46            | 13.03              | Vertical           | Pass   |

| NSA_4A_n7A-Middle channel |            |             |                 |                  |                 |                    |                    |        |
|---------------------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)           | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 5052.0                    | -62.57     | -25         | -37.57          | -68.15           | 4.59            | 10.17              | Horizontal         | Pass   |
| 7578.0                    | -59.5      | -25         | -34.5           | -66.38           | 4.95            | 11.83              | Horizontal         | Pass   |
| 10104.0                   | -50.86     | -25         | -25.86          | -58.43           | 5.48            | 13.05              | Horizontal         | Pass   |
| 5052.0                    | -61.73     | -25         | -36.73          | -67.31           | 4.59            | 10.17              | Vertical           | Pass   |
| 7578.0                    | -55.41     | -25         | -30.41          | -62.29           | 4.95            | 11.83              | Vertical           | Pass   |
| 10104.0                   | -50.19     | -25         | -25.19          | -57.76           | 5.48            | 13.05              | Vertical           | Pass   |

| NSA_4A_n7A-High channel |            |             |                 |                  |                 |                    |                    |        |
|-------------------------|------------|-------------|-----------------|------------------|-----------------|--------------------|--------------------|--------|
| Frequency (MHz)         | EIRP (dBm) | Limit (dBm) | Over Limit (dB) | S.G. Power (dBm) | Cable Loss (dB) | Antenna Gain (dBi) | Polarization (H/V) | Result |
| 5102.0                  | -63.8      | -25         | -38.8           | -69.4            | 4.6             | 10.2               | Horizontal         | Pass   |
| 7653.0                  | -60.04     | -25         | -35.04          | -67.01           | 4.95            | 11.92              | Horizontal         | Pass   |
| 10204.0                 | -56.08     | -25         | -31.08          | -63.66           | 5.49            | 13.07              | Horizontal         | Pass   |
| 5102.0                  | -60.05     | -25         | -35.05          | -65.65           | 4.6             | 10.2               | Vertical           | Pass   |
| 7653.0                  | -60.11     | -25         | -35.11          | -67.08           | 4.95            | 11.92              | Vertical           | Pass   |
| 10204.0                 | -57.2      | -25         | -32.2           | -64.78           | 5.49            | 13.07              | Vertical           | Pass   |