

Report No.: SUCR240200003403

Rev.: 01

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# Appendix B.22

## NR Band n25



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## Effective (Isotropic) Radiated Power Output Data for SA

### Test Result

| Band | SCS | Bandwidth | Modulation  | Channel | RB Config       | Power (dBm) | EIRP (dBm) | Limit (dBm) | Verdict |
|------|-----|-----------|-------------|---------|-----------------|-------------|------------|-------------|---------|
| N25  | 15  | 5         | DFT-QPSK    | L       | Inner_1RB_Left  | 21.56       | 21.9       | 33.00       | PASS    |
| N25  | 15  | 5         | DFT-16QAM   | L       | Inner_1RB_Left  | 20.72       | 21.06      | 33.00       | PASS    |
| N25  | 15  | 5         | DFT-QPSK    | M       | Inner_1RB_Left  | 21.59       | 21.93      | 33.00       | PASS    |
| N25  | 15  | 5         | DFT-16QAM   | M       | Inner_1RB_Left  | 20.84       | 21.18      | 33.00       | PASS    |
| N25  | 15  | 5         | DFT-QPSK    | H       | Inner_1RB_Left  | 21.5        | 21.84      | 33.00       | PASS    |
| N25  | 15  | 5         | DFT-16QAM   | H       | Inner_1RB_Left  | 20.68       | 21.02      | 33.00       | PASS    |
| N25  | 15  | 10        | DFT-QPSK    | L       | Inner_1RB_Left  | 21.53       | 21.87      | 33.00       | PASS    |
| N25  | 15  | 10        | DFT-16QAM   | L       | Inner_1RB_Left  | 20.71       | 21.05      | 33.00       | PASS    |
| N25  | 15  | 10        | DFT-QPSK    | M       | Inner_1RB_Left  | 21.54       | 21.88      | 33.00       | PASS    |
| N25  | 15  | 10        | DFT-16QAM   | M       | Inner_1RB_Left  | 20.76       | 21.1       | 33.00       | PASS    |
| N25  | 15  | 10        | DFT-QPSK    | H       | Inner_1RB_Left  | 21.49       | 21.83      | 33.00       | PASS    |
| N25  | 15  | 10        | DFT-16QAM   | H       | Inner_1RB_Left  | 20.72       | 21.06      | 33.00       | PASS    |
| N25  | 15  | 15        | DFT-QPSK    | L       | Inner_1RB_Left  | 21.51       | 21.85      | 33.00       | PASS    |
| N25  | 15  | 15        | DFT-16QAM   | L       | Inner_1RB_Left  | 20.72       | 21.06      | 33.00       | PASS    |
| N25  | 15  | 15        | DFT-QPSK    | M       | Inner_1RB_Left  | 21.51       | 21.85      | 33.00       | PASS    |
| N25  | 15  | 15        | DFT-16QAM   | M       | Inner_1RB_Left  | 20.7        | 21.04      | 33.00       | PASS    |
| N25  | 15  | 15        | DFT-QPSK    | H       | Inner_1RB_Left  | 21.55       | 21.89      | 33.00       | PASS    |
| N25  | 15  | 15        | DFT-16QAM   | H       | Inner_1RB_Left  | 20.77       | 21.11      | 33.00       | PASS    |
| N25  | 15  | 20        | DFT-PI2BPSK | L       | Inner_1RB_Left  | 21.67       | 22.01      | 33.00       | PASS    |
| N25  | 15  | 20        | DFT-PI2BPSK | L       | Inner_1RB_Right | 21.54       | 21.88      | 33.00       | PASS    |
| N25  | 15  | 20        | DFT-PI2BPSK | L       | Outer_Full      | 21.21       | 21.55      | 33.00       | PASS    |
| N25  | 15  | 20        | DFT-QPSK    | L       | Inner_1RB_Left  | 21.67       | 22.01      | 33.00       | PASS    |
| N25  | 15  | 20        | DFT-QPSK    | L       | Inner_1RB_Right | 21.59       | 21.93      | 33.00       | PASS    |
| N25  | 15  | 20        | DFT-QPSK    | L       | Outer_Full      | 20.69       | 21.03      | 33.00       | PASS    |
| N25  | 15  | 20        | DFT-16QAM   | L       | Inner_1RB_Left  | 20.82       | 21.16      | 33.00       | PASS    |
| N25  | 15  | 20        | DFT-16QAM   | L       | Inner_1RB_Right | 20.73       | 21.07      | 33.00       | PASS    |
| N25  | 15  | 20        | DFT-16QAM   | L       | Outer_Full      | 19.7        | 20.04      | 33.00       | PASS    |
| N25  | 15  | 20        | DFT-64QAM   | L       | Inner_1RB_Left  | 19.33       | 19.67      | 33.00       | PASS    |
| N25  | 15  | 20        | DFT-64QAM   | L       | Inner_1RB_Right | 19.23       | 19.57      | 33.00       | PASS    |
| N25  | 15  | 20        | DFT-64QAM   | L       | Outer_Full      | 19.18       | 19.52      | 33.00       | PASS    |
| N25  | 15  | 20        | DFT-256QAM  | L       | Inner_1RB_Left  | 17.19       | 17.53      | 33.00       | PASS    |



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|     |    |    |             |   |                 |       |       |       |      |
|-----|----|----|-------------|---|-----------------|-------|-------|-------|------|
| N25 | 15 | 20 | DFT-256QAM  | L | Inner_1RB_Right | 17.16 | 17.5  | 33.00 | PASS |
| N25 | 15 | 20 | DFT-256QAM  | L | Outer_Full      | 17.25 | 17.59 | 33.00 | PASS |
| N25 | 15 | 20 | DFT-PI2BPSK | M | Inner_1RB_Left  | 21.54 | 21.88 | 33.00 | PASS |
| N25 | 15 | 20 | DFT-PI2BPSK | M | Inner_1RB_Right | 21.74 | 22.08 | 33.00 | PASS |
| N25 | 15 | 20 | DFT-PI2BPSK | M | Outer_Full      | 21.2  | 21.54 | 33.00 | PASS |
| N25 | 15 | 20 | DFT-QPSK    | M | Inner_1RB_Left  | 21.59 | 21.93 | 33.00 | PASS |
| N25 | 15 | 20 | DFT-QPSK    | M | Inner_1RB_Right | 21.82 | 22.16 | 33.00 | PASS |
| N25 | 15 | 20 | DFT-QPSK    | M | Outer_Full      | 20.73 | 21.07 | 33.00 | PASS |
| N25 | 15 | 20 | DFT-16QAM   | M | Inner_1RB_Left  | 20.71 | 21.05 | 33.00 | PASS |
| N25 | 15 | 20 | DFT-16QAM   | M | Inner_1RB_Right | 20.89 | 21.23 | 33.00 | PASS |
| N25 | 15 | 20 | DFT-16QAM   | M | Outer_Full      | 19.72 | 20.06 | 33.00 | PASS |
| N25 | 15 | 20 | DFT-64QAM   | M | Inner_1RB_Left  | 19.22 | 19.56 | 33.00 | PASS |
| N25 | 15 | 20 | DFT-64QAM   | M | Inner_1RB_Right | 19.4  | 19.74 | 33.00 | PASS |
| N25 | 15 | 20 | DFT-64QAM   | M | Outer_Full      | 19.21 | 19.55 | 33.00 | PASS |
| N25 | 15 | 20 | DFT-256QAM  | M | Inner_1RB_Left  | 17.15 | 17.49 | 33.00 | PASS |
| N25 | 15 | 20 | DFT-256QAM  | M | Inner_1RB_Right | 17.39 | 17.73 | 33.00 | PASS |
| N25 | 15 | 20 | DFT-256QAM  | M | Outer_Full      | 17.34 | 17.68 | 33.00 | PASS |
| N25 | 15 | 20 | DFT-PI2BPSK | H | Inner_1RB_Left  | 21.63 | 21.97 | 33.00 | PASS |
| N25 | 15 | 20 | DFT-PI2BPSK | H | Inner_1RB_Right | 21.65 | 21.99 | 33.00 | PASS |
| N25 | 15 | 20 | DFT-PI2BPSK | H | Outer_Full      | 21.15 | 21.49 | 33.00 | PASS |
| N25 | 15 | 20 | DFT-QPSK    | H | Inner_1RB_Left  | 21.65 | 21.99 | 33.00 | PASS |
| N25 | 15 | 20 | DFT-QPSK    | H | Inner_1RB_Right | 21.65 | 21.99 | 33.00 | PASS |
| N25 | 15 | 20 | DFT-QPSK    | H | Outer_Full      | 20.7  | 21.04 | 33.00 | PASS |
| N25 | 15 | 20 | DFT-16QAM   | H | Inner_1RB_Left  | 20.77 | 21.11 | 33.00 | PASS |
| N25 | 15 | 20 | DFT-16QAM   | H | Inner_1RB_Right | 20.82 | 21.16 | 33.00 | PASS |
| N25 | 15 | 20 | DFT-16QAM   | H | Outer_Full      | 19.67 | 20.01 | 33.00 | PASS |
| N25 | 15 | 20 | DFT-64QAM   | H | Inner_1RB_Left  | 19.27 | 19.61 | 33.00 | PASS |
| N25 | 15 | 20 | DFT-64QAM   | H | Inner_1RB_Right | 19.34 | 19.68 | 33.00 | PASS |
| N25 | 15 | 20 | DFT-64QAM   | H | Outer_Full      | 19.19 | 19.53 | 33.00 | PASS |
| N25 | 15 | 20 | DFT-256QAM  | H | Inner_1RB_Left  | 17.27 | 17.61 | 33.00 | PASS |
| N25 | 15 | 20 | DFT-256QAM  | H | Inner_1RB_Right | 17.28 | 17.62 | 33.00 | PASS |
| N25 | 15 | 20 | DFT-256QAM  | H | Outer_Full      | 17.24 | 17.58 | 33.00 | PASS |



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## Peak-to-Average Ratio for SA

## Peak-to-Average Ratio(CCDF)

### Test Result

| Band | SCS | Bandwidth | Modulation | Channel | RB Config  | Result | Verdict |
|------|-----|-----------|------------|---------|------------|--------|---------|
| N25  | 15  | 20        | DFT-256QAM | L       | Outer_Full | 6.78   | PASS    |
| N25  | 15  | 20        | CP-256QAM  | L       | Outer_Full | 8.69   | PASS    |
| N25  | 15  | 20        | DFT-256QAM | M       | Outer_Full | 6.79   | PASS    |
| N25  | 15  | 20        | CP-256QAM  | M       | Outer_Full | 8.70   | PASS    |
| N25  | 15  | 20        | DFT-256QAM | H       | Outer_Full | 6.72   | PASS    |
| N25  | 15  | 20        | CP-256QAM  | H       | Outer_Full | 8.62   | PASS    |



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### Test Graphs



1-N25-15-20-L-14-DFT-256QAM-Outer\_Full-100@0-22.50-22.50-19~27.5-PASS



1-N25-15-20-L-15-CP-256QAM-Outer\_Full-106@0-20.49-20.49-19~27.5-PASS



1-N25-15-20-M-14-DFT-256QAM-Outer\_Full-100@0-22.50-22.50-19~27.5-PASS



1-N25-15-20-M-15-CP-256QAM-Outer\_Full-106@0-20.48-20.48-19~27.5-PASS



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1-N25-15-20-H-14-DFT-256QAM-Outer\_Full-100@0-  
22.45-22.45-19~27.5-PASS



1-N25-15-20-H-15-CP-256QAM-Outer\_Full-106@0-  
20.58-20.58-19~27.5-PASS



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## 26dB Bandwidth and Occupied Bandwidth for SA

### Test Result

| Band | SCS | Bandwidth | Modulation  | Channel | RB Config  | Result<br>(99%) | Result<br>(26dB) | Verdict |
|------|-----|-----------|-------------|---------|------------|-----------------|------------------|---------|
| N25  | 15  | 5         | DFT-QPSK    | M       | Outer_Full | 4.512           | 4.910            | PASS    |
| N25  | 15  | 5         | DFT-PI2BPSK | M       | Outer_Full | 4.509           | 4.940            | PASS    |
| N25  | 15  | 5         | DFT-16QAM   | M       | Outer_Full | 4.503           | 4.920            | PASS    |
| N25  | 15  | 5         | DFT-64QAM   | M       | Outer_Full | 4.512           | 4.970            | PASS    |
| N25  | 15  | 5         | DFT-256QAM  | M       | Outer_Full | 4.5             | 4.930            | PASS    |
| N25  | 15  | 5         | CP-QPSK     | M       | Outer_Full | 4.5             | 4.950            | PASS    |
| N25  | 15  | 5         | CP-16QAM    | M       | Outer_Full | 4.501           | 4.940            | PASS    |
| N25  | 15  | 5         | CP-64QAM    | M       | Outer_Full | 4.514           | 4.970            | PASS    |
| N25  | 15  | 5         | CP-256QAM   | M       | Outer_Full | 4.482           | 4.960            | PASS    |
| N25  | 15  | 10        | DFT-QPSK    | M       | Outer_Full | 8.912           | 9.420            | PASS    |
| N25  | 15  | 10        | DFT-PI2BPSK | M       | Outer_Full | 8.956           | 9.460            | PASS    |
| N25  | 15  | 10        | DFT-16QAM   | M       | Outer_Full | 8.909           | 9.440            | PASS    |
| N25  | 15  | 10        | DFT-64QAM   | M       | Outer_Full | 8.934           | 9.440            | PASS    |
| N25  | 15  | 10        | DFT-256QAM  | M       | Outer_Full | 8.917           | 9.420            | PASS    |
| N25  | 15  | 10        | CP-QPSK     | M       | Outer_Full | 9.284           | 9.840            | PASS    |
| N25  | 15  | 10        | CP-16QAM    | M       | Outer_Full | 9.298           | 9.840            | PASS    |
| N25  | 15  | 10        | CP-64QAM    | M       | Outer_Full | 9.292           | 9.800            | PASS    |
| N25  | 15  | 10        | CP-256QAM   | M       | Outer_Full | 9.268           | 9.800            | PASS    |
| N25  | 15  | 15        | DFT-QPSK    | M       | Outer_Full | 13.462          | 14.370           | PASS    |
| N25  | 15  | 15        | DFT-PI2BPSK | M       | Outer_Full | 13.462          | 14.310           | PASS    |
| N25  | 15  | 15        | DFT-16QAM   | M       | Outer_Full | 13.428          | 14.370           | PASS    |
| N25  | 15  | 15        | DFT-64QAM   | M       | Outer_Full | 13.468          | 14.310           | PASS    |
| N25  | 15  | 15        | DFT-256QAM  | M       | Outer_Full | 13.453          | 14.340           | PASS    |
| N25  | 15  | 15        | CP-QPSK     | M       | Outer_Full | 14.15           | 15.030           | PASS    |
| N25  | 15  | 15        | CP-16QAM    | M       | Outer_Full | 14.183          | 15.090           | PASS    |
| N25  | 15  | 15        | CP-64QAM    | M       | Outer_Full | 14.162          | 15.060           | PASS    |
| N25  | 15  | 15        | CP-256QAM   | M       | Outer_Full | 14.144          | 15.030           | PASS    |
| N25  | 15  | 20        | DFT-QPSK    | M       | Outer_Full | 17.867          | 18.880           | PASS    |
| N25  | 15  | 20        | DFT-PI2BPSK | M       | Outer_Full | 17.914          | 18.880           | PASS    |
| N25  | 15  | 20        | DFT-16QAM   | M       | Outer_Full | 17.864          | 18.880           | PASS    |



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|     |    |    |            |   |            |        |        |      |
|-----|----|----|------------|---|------------|--------|--------|------|
| N25 | 15 | 20 | DFT-64QAM  | M | Outer_Full | 17.909 | 18.960 | PASS |
| N25 | 15 | 20 | DFT-256QAM | M | Outer_Full | 17.873 | 18.880 | PASS |
| N25 | 15 | 20 | CP-QPSK    | M | Outer_Full | 18.963 | 19.960 | PASS |
| N25 | 15 | 20 | CP-16QAM   | M | Outer_Full | 18.922 | 20.000 | PASS |
| N25 | 15 | 20 | CP-64QAM   | M | Outer_Full | 18.974 | 20.000 | PASS |
| N25 | 15 | 20 | CP-256QAM  | M | Outer_Full | 18.917 | 20.000 | PASS |



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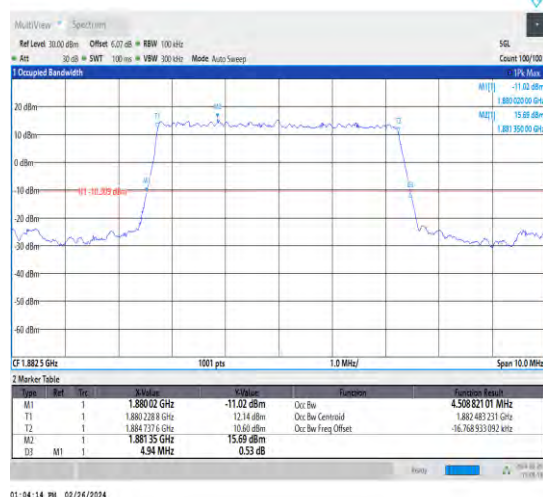
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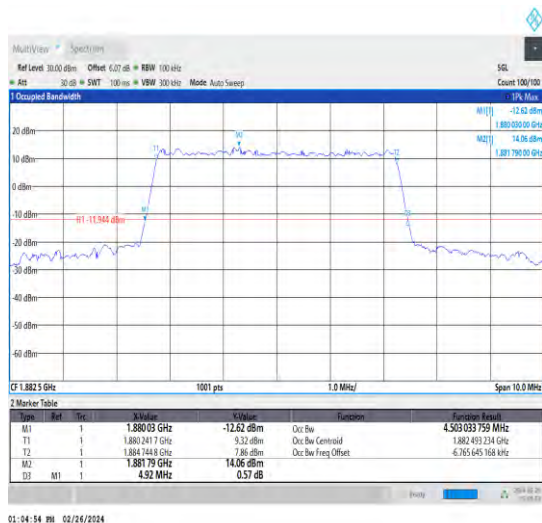
### Test Graphs



1-N25-15-5-M-1-DFT-QPSK-Outer\_Full-25@0-Ant4-4.512-4.910-≤5-PASS



1-N25-15-5-M-2-DFT-PI2BPSK-Outer\_Full-25@0-An t4-4.509-4.940-≤5-PASS



1-N25-15-5-M-3-DFT-16QAM-Outer\_Full-25@0-Ant4-4.503-4.920-≤5-PASS



1-N25-15-5-M-4-DFT-64QAM-Outer\_Full-25@0-Ant4-4.512-4.970-≤5-PASS



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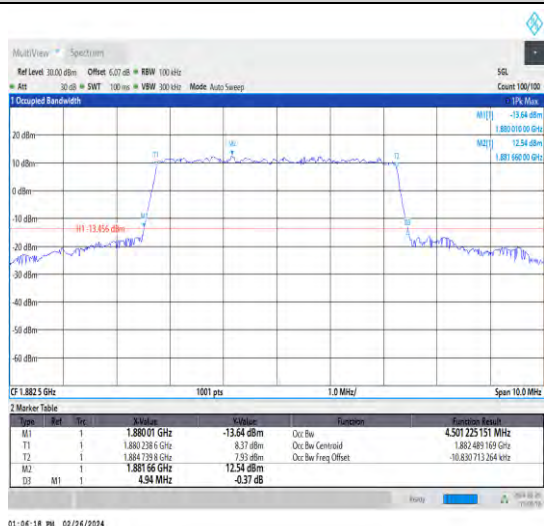
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1-N25-15-5-M-5-DFT-256QAM-Outer\_Full-25@0-Ant  
4-4.5-4.930-≤5-PASS



1-N25-15-5-M-6-CP-QPSK-Outer\_Full-25@0-Ant4-4  
.5-4.950-≤5-PASS



1-N25-15-5-M-7-CP-16QAM-Outer\_Full-25@0-Ant4-4  
4.501-4.940-≤5-PASS



1-N25-15-5-M-8-CP-64QAM-Outer\_Full-25@0-Ant4-4  
4.514-4.970-≤5-PASS



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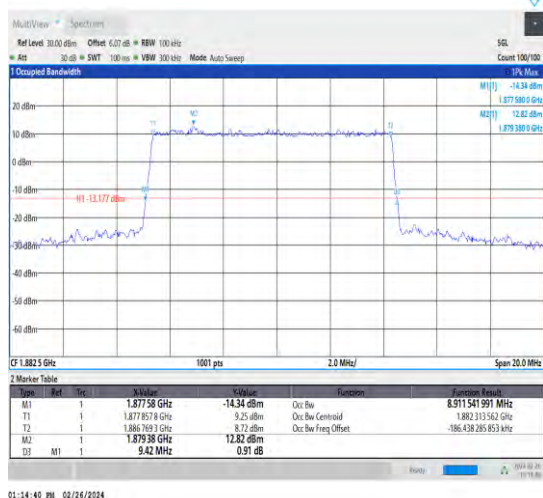
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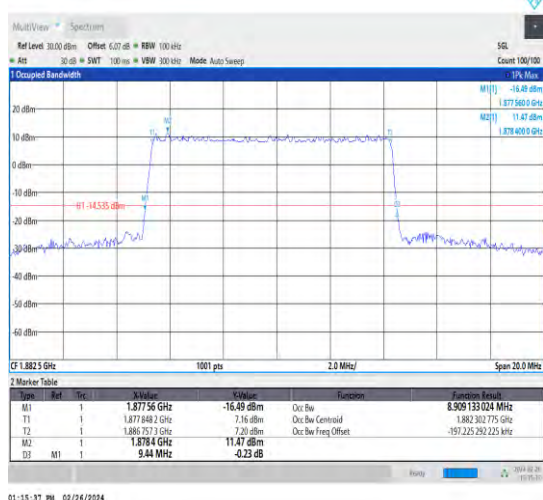
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-4.482-4.960-≤5-PASS



1-N25-15-10-M-1-DFT-QPSK-Outer\_Full-50@0-Ant4  
-8.912-9.420-≤10-PASS



1-N25-15-10-M-2-DFT-PI2BPSK-Outer\_Full-50@0-A  
nt4-8.956-9.460-≤10-PASS



1-N25-15-10-M-3-DFT-16QAM-Outer\_Full-50@0-Ant  
4-8.909-9.440-≤10-PASS



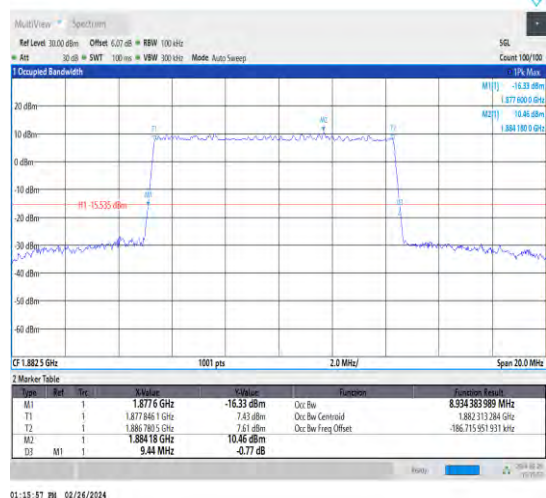
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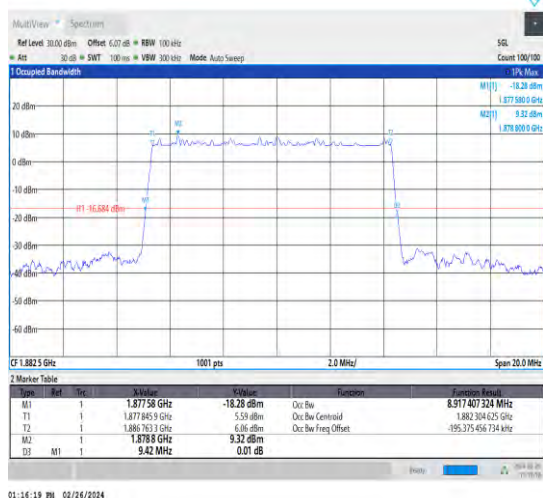
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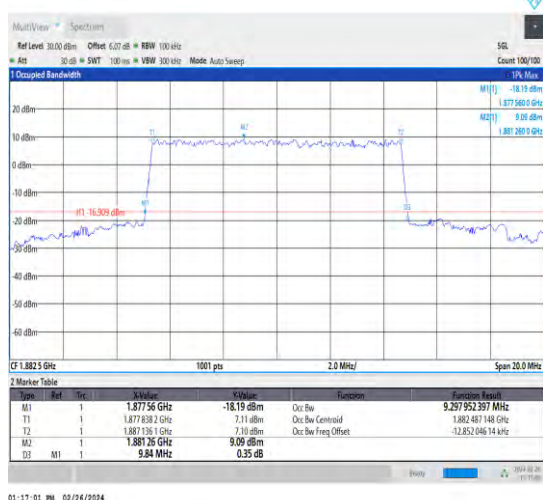
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4-8.934-9.440-≤10-PASS



1-N25-15-10-M-5-DFT-256QAM-Outer\_Full-50@0-Ant  
nt4-8.917-9.420-≤10-PASS



1-N25-15-10-M-6-CP-QPSK-Outer\_Full-52@0-Ant4-  
9.284-9.840-≤10-PASS



1-N25-15-10-M-7-CP-16QAM-Outer\_Full-52@0-Ant  
4-9.298-9.840-≤10-PASS



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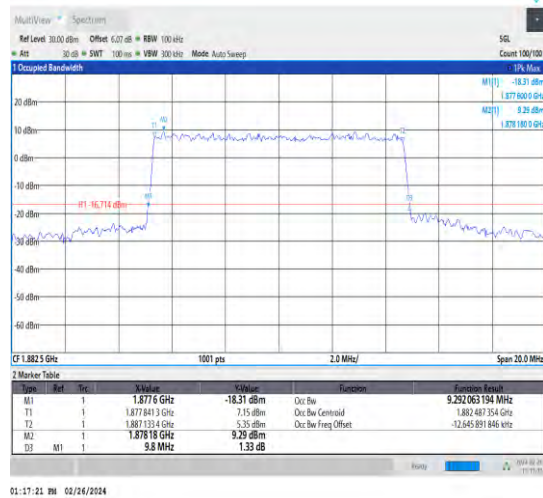
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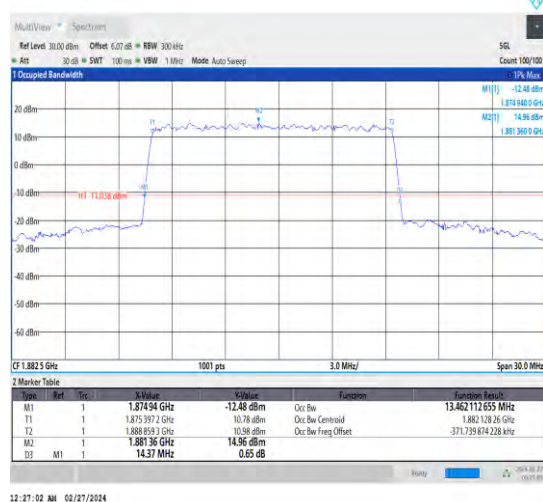
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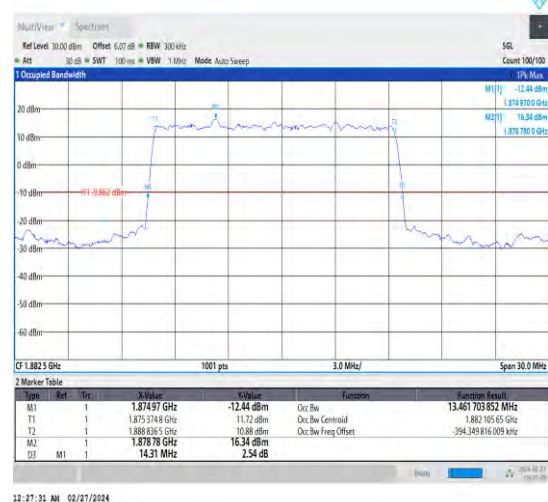
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-9.292-9.800-≤10-PASS



1-N25-15-10-M-9-CP-256QAM-Outer\_Full-52@0-Ant4  
-9.268-9.800-≤10-PASS



1-N25-15-15-M-1-DFT-QPSK-Outer\_Full-75@0-Ant4  
-13.462-14.370-≤15-PASS



1-N25-15-15-M-2-DFT-PI2BPSK-Outer\_Full-75@0-Ant4  
-13.462-14.310-≤15-PASS



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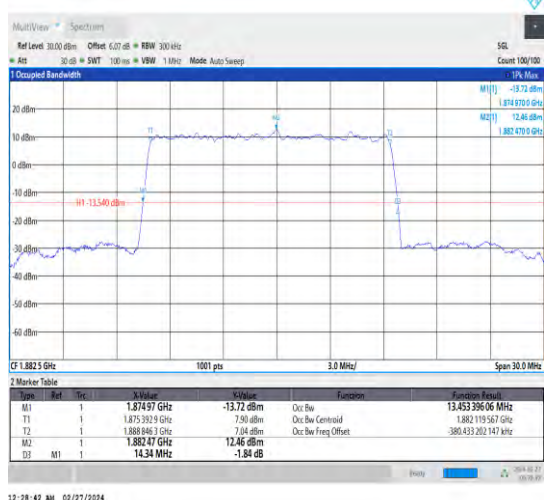
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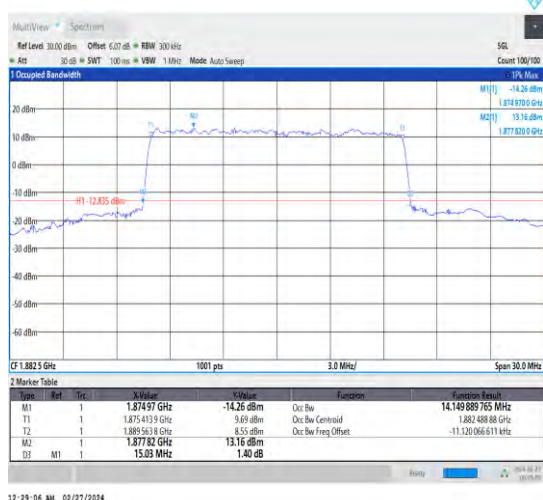
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4-13.428-14.370≤15-PASS



1-N25-15-15-M-4-DFT-64QAM-Outer\_Full-75@0-Ant  
4-13.468-14.310≤15-PASS



1-N25-15-15-M-5-DFT-256QAM-Outer\_Full-75@0-A  
nt4-13.453-14.340≤15-PASS



1-N25-15-15-M-6-CP-QPSK-Outer\_Full-79@0-Ant4-  
14.15-15.030≤15-PASS



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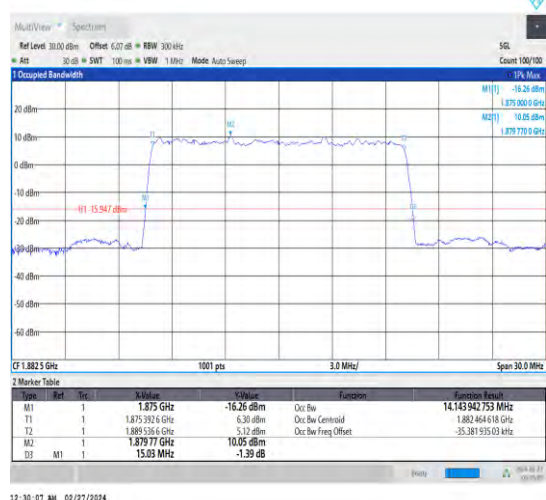
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1-N25-15-15-M-7-CP-16QAM-Outer\_Full-79@0-Ant4  
-14.183-15.090-≤15-PASS



1-N25-15-15-M-8-CP-64QAM-Outer\_Full-79@0-Ant  
4-14.162-15.060-≤15-PASS



1-N25-15-15-M-9-CP-256QAM-Outer\_Full-79@0-Ant  
4-14.144-15.030-≤15-PASS



1-N25-15-20-M-1-DFT-QPSK-Outer\_Full-100@0-Ant  
4-17.867-18.880-≤20-PASS



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1-N25-15-20-M-3-DFT-16QAM-Outer\_Full-100@0-Ant4-17.864-18.880-≤20-PASS



1-N25-15-20-M-4-DFT-64QAM-Outer\_Full-100@0-Ant4-17.909-18.960-≤20-PASS

1-N25-15-20-M-5-DFT-256QAM-Outer\_Full-100@0-Ant4-17.873-18.880-≤20-PASS



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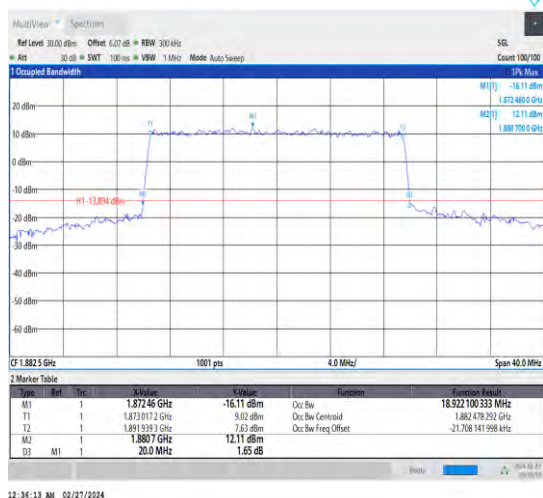
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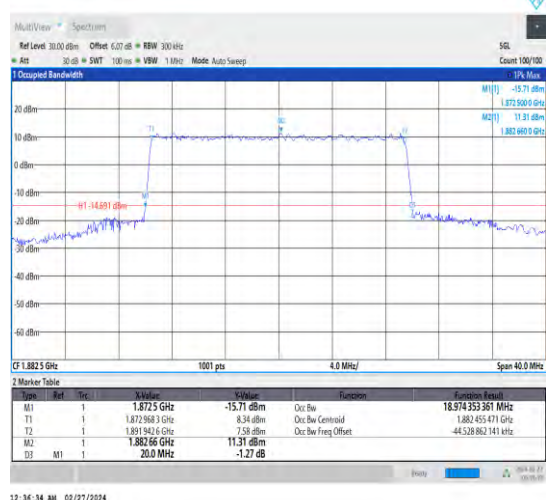
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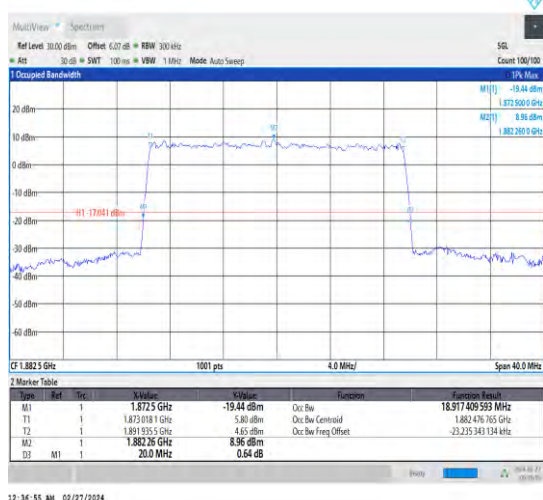
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-18.963-19.960-≤20-PASS



1-N25-15-20-M-7-CP-16QAM-Outer\_Full-106@0-Ant4  
-18.922-20.000-≤20-PASS



1-N25-15-20-M-8-CP-64QAM-Outer\_Full-106@0-Ant4  
4-18.974-20.000-≤20-PASS



1-N25-15-20-M-9-CP-256QAM-Outer\_Full-106@0-Ant4  
-18.917-20.000-≤20-PASS



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### Band Edge for SA

### Test Graphs



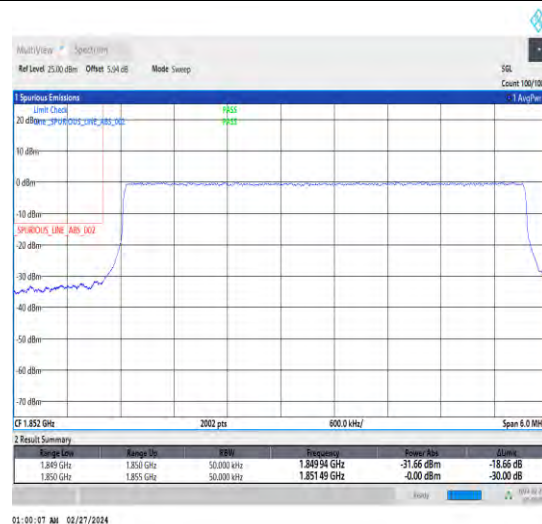
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1-N25-15-5-L-3-DFT-PI2BPSK-Outer\_Full-25@0-A  
nt4-1-seegraph-PASS-see graph



1-N25-15-5-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant4-1  
1-seegraph-PASS-see graph



1-N25-15-5-L-6-CP-QPSK-Outer\_Full-25@0-Ant4-1  
1-seegraph-PASS-see graph



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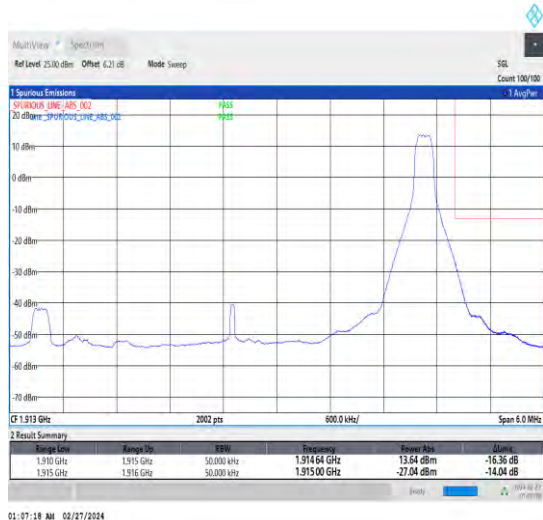
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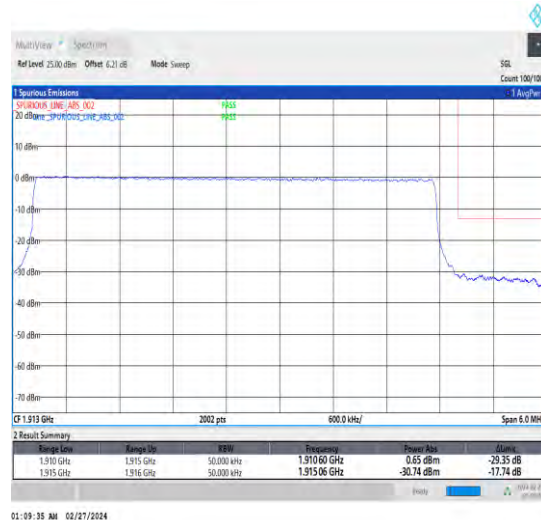
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1-N25-15-5-H-3-DFT-PI2BPSK-Outer\_Full-25@0-  
Ant4-1-seegraph-PASS-see graph



1-N25-15-5-H-5-CP-QPSK-Edge\_1RB\_Right-1@24-An  
t4-1-seegraph-PASS-see graph



1-N25-15-5-H-6-CP-QPSK-Outer\_Full-25@0-Ant4-1  
1-seegraph-PASS-see graph



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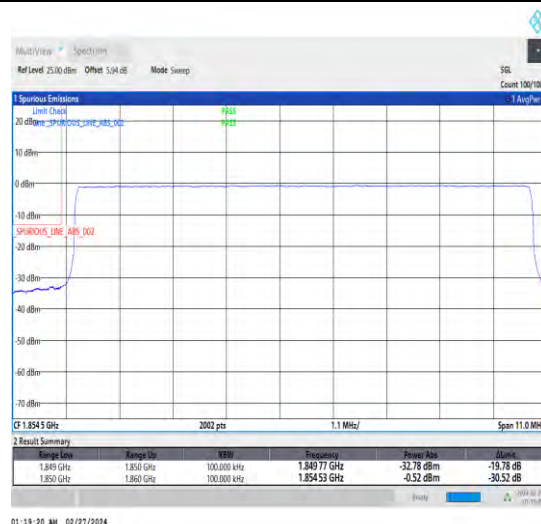
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1-N25-15-10-L-1-DFT-PI2BPSK-Edge\_1RB\_Left-1@0-Ant4-1-seegraph-PASS-see graph

1-N25-15-10-L-3-DFT-PI2BPSK-Outer\_Full-50@0-Ant4-1-seegraph-PASS-see graph



1-N25-15-10-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant4-1-seegraph-PASS-see graph

1-N25-15-10-L-6-CP-QPSK-Outer\_Full-52@0-Ant4-1-seegraph-PASS-see graph



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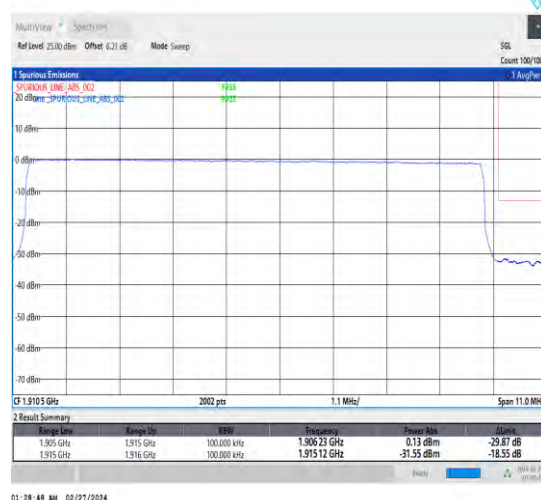
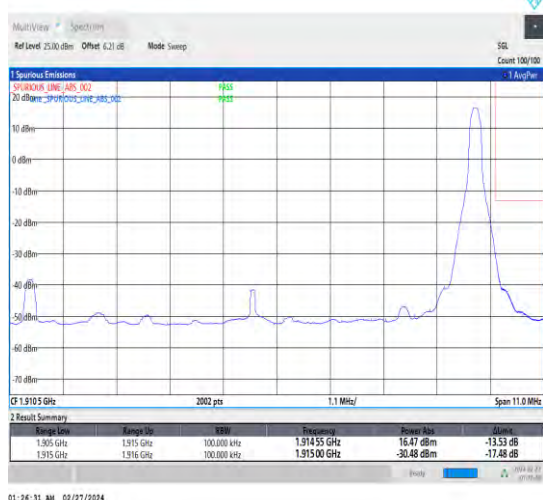
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1-N25-15-10-H-2-DFT-PI2BPSK-Edge\_1RB\_Right-1@51-Ant4-1-seegraph-PASS-see graph

1-N25-15-10-H-3-DFT-PI2BPSK-Outer\_Full-50@0-Ant4-1-seegraph-PASS-see graph



1-N25-15-10-H-5-CP-QPSK-Edge\_1RB\_Right-1@51-Ant4-1-seegraph-PASS-see graph

1-N25-15-10-H-6-CP-QPSK-Outer\_Full-52@0-Ant4-1-seegraph-PASS-see graph



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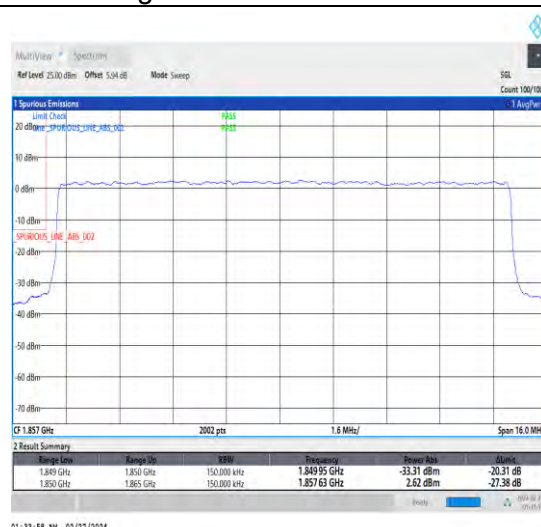
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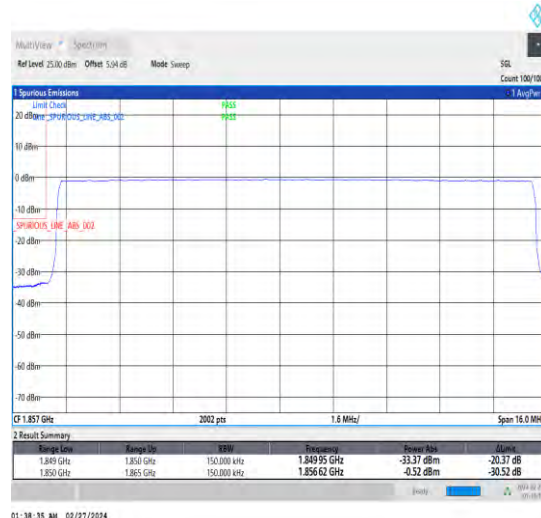
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1-N25-15-15-L-3-DFT-PI2BPSK-Outer\_Full-75@0-Ant4-1-seegraph-PASS-see graph



1-N25-15-15-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant4-1-seegraph-PASS-see graph



1-N25-15-15-L-6-CP-QPSK-Outer\_Full-79@0-Ant4-1-seegraph-PASS-see graph



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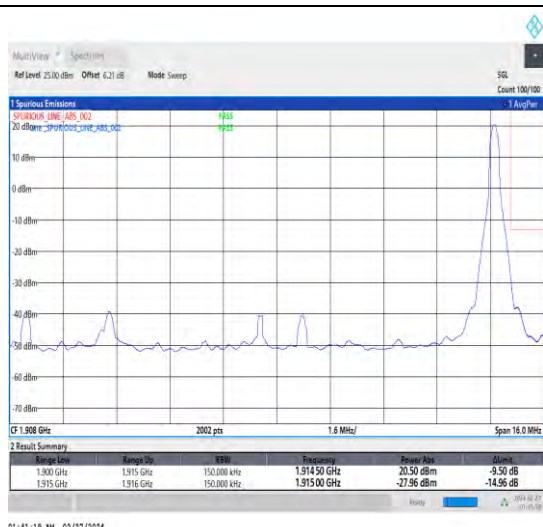
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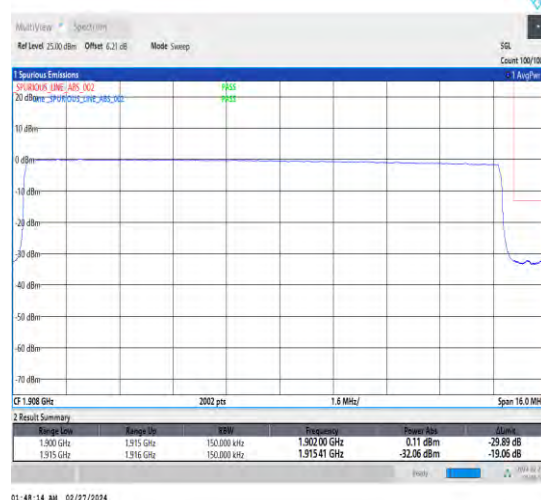
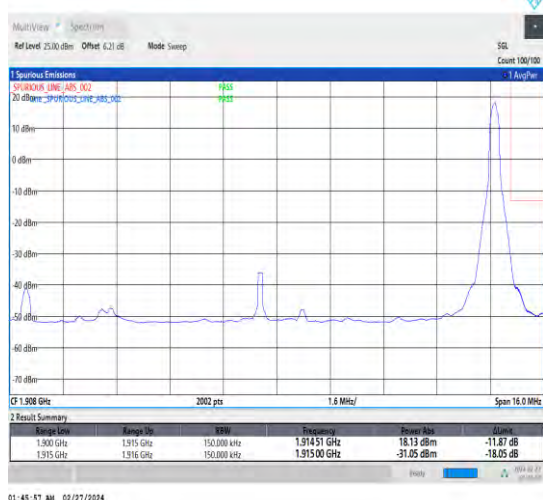
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1-N25-15-15-H-5-CP-QPSK-Edge\_1RB\_Right-1@78-Ant4-1-seegraph-PASS-see graph

1-N25-15-15-H-6-CP-QPSK-Outer\_Full-79@0-Ant4-1-seegraph-PASS-see graph



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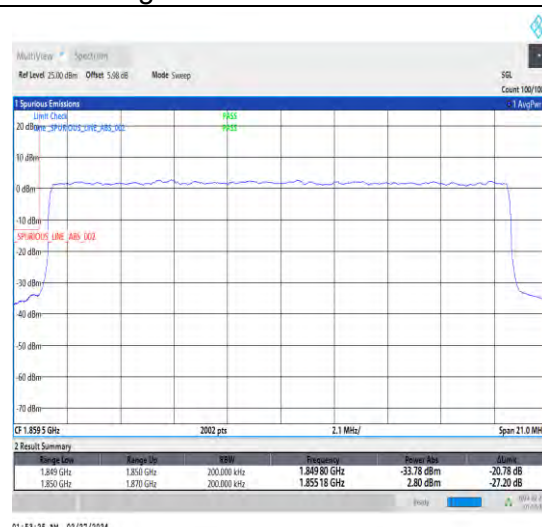
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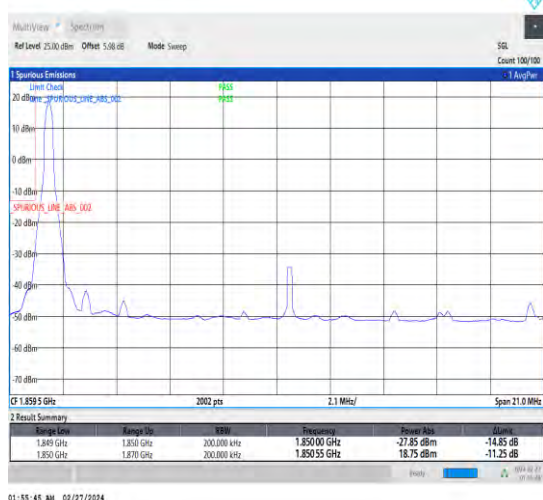
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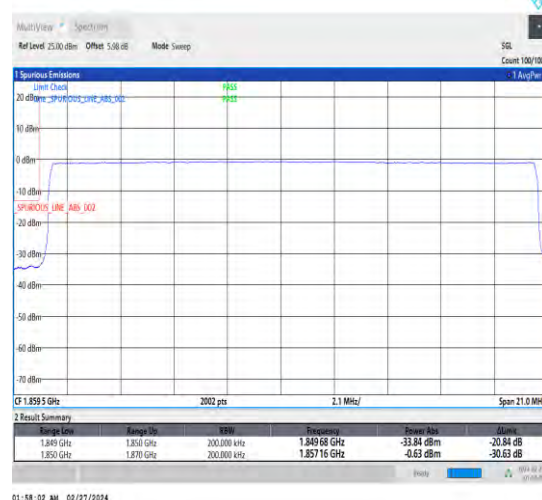
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1-N25-15-20-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant4-1-seegraph-PASS-see graph



1-N25-15-20-L-6-CP-QPSK-Outer\_Full-106@0-Ant4-1-seegraph-PASS-see graph



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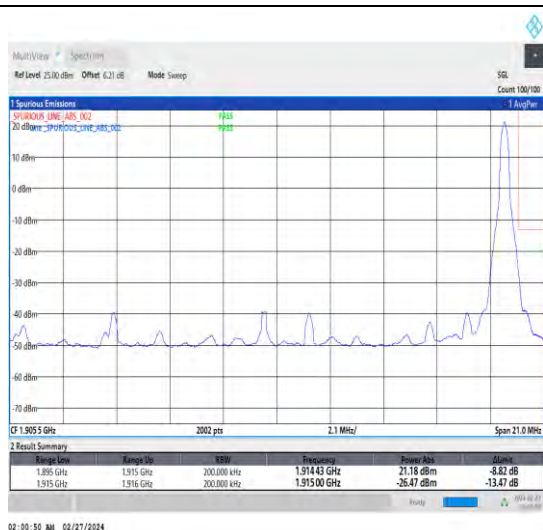
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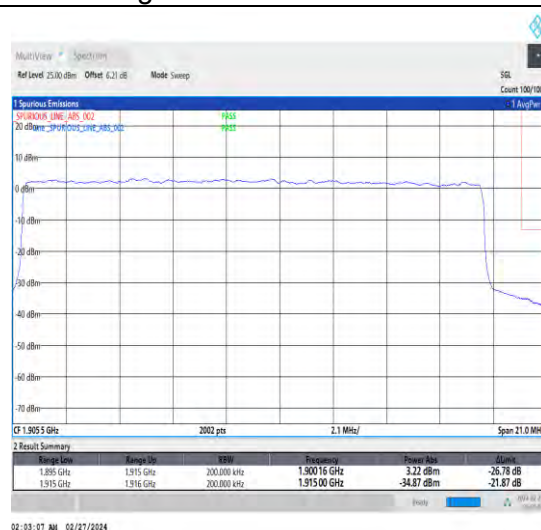
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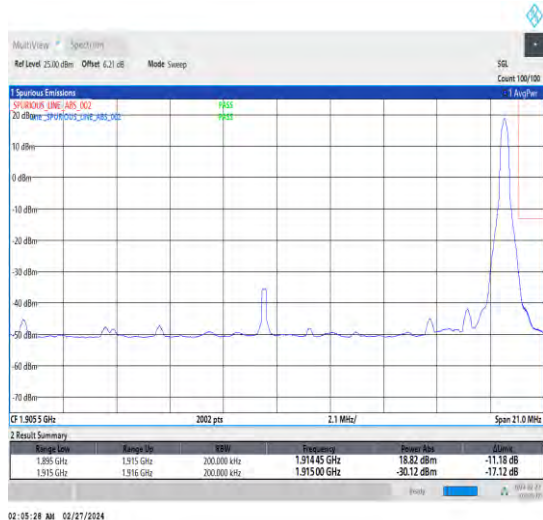
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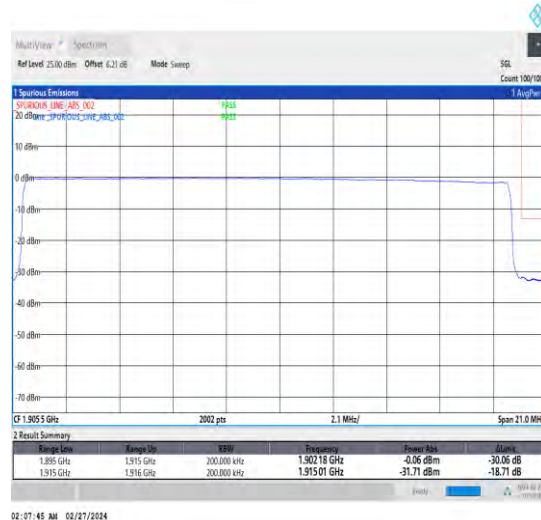
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1-N25-15-20-H-5-CP-QPSK-Edge\_1RB\_Right-1@105-Ant4-1-seegraph-PASS-see graph



1-N25-15-20-H-6-CP-QPSK-Outer\_Full-106@0-Ant4-1-seegraph-PASS-see graph



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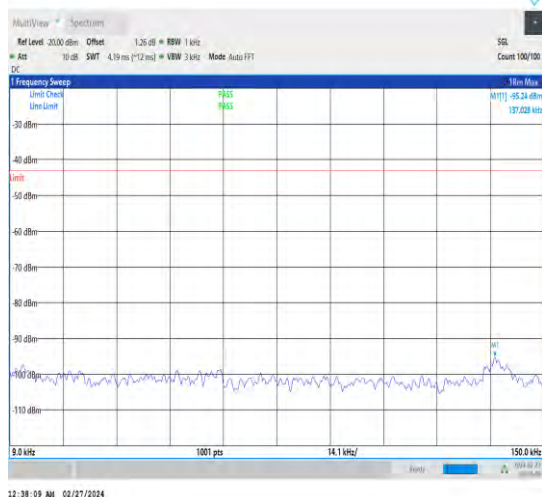
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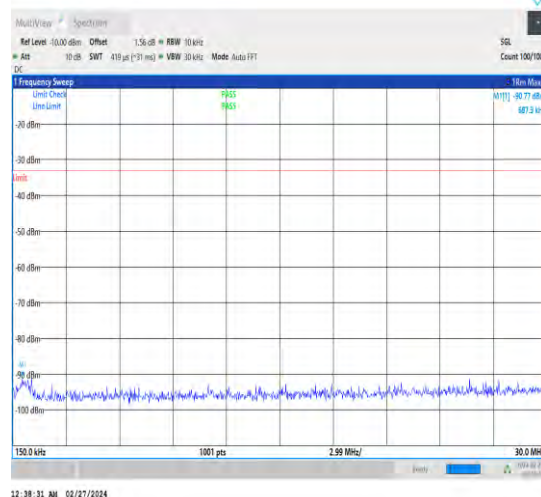
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### Conducted Spurious Emission for SA

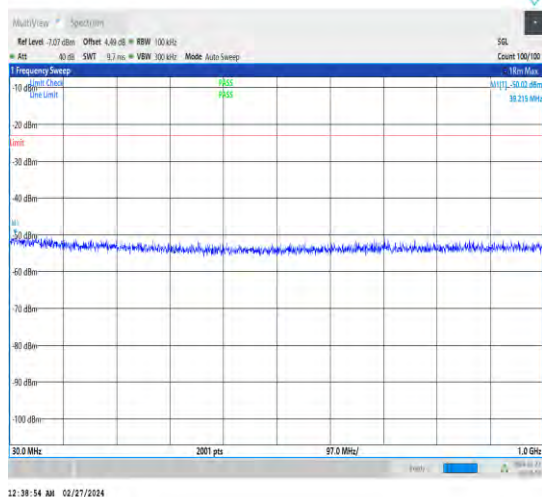
#### Test Graphs



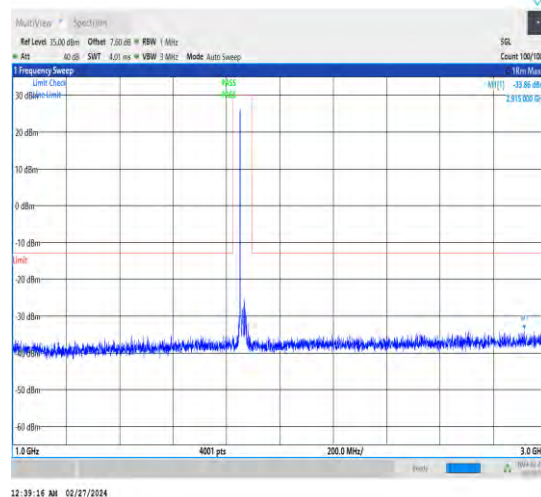
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1-N25-15-20-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@  
1-0.15-30-Ant4-0.69--90.77--33-PASS



1-N25-15-20-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1  
@1-30-1000-Ant4-39.22--50.02--23-PASS



1-N25-15-20-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@  
1-1000-3000-Ant4-2915.00--33.86--13-PASS



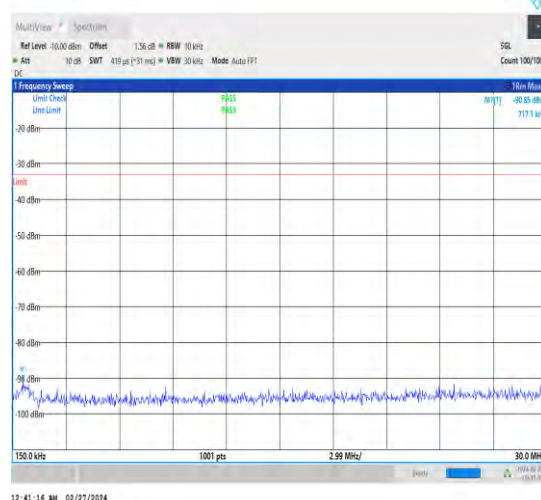
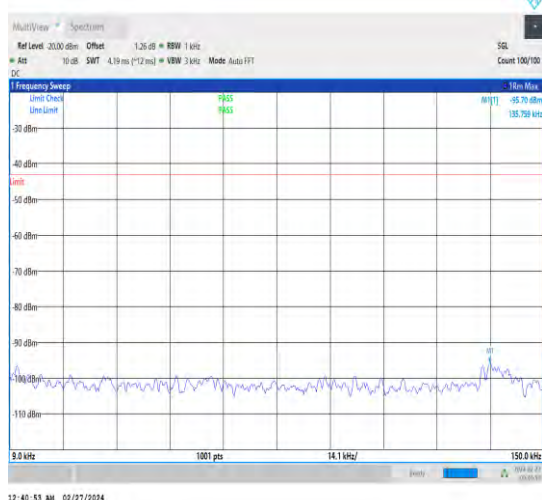
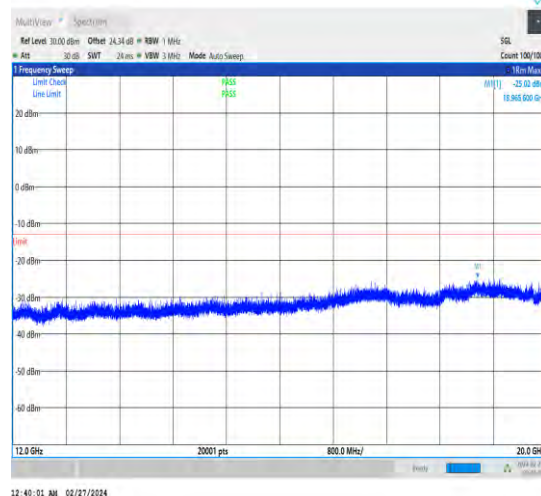
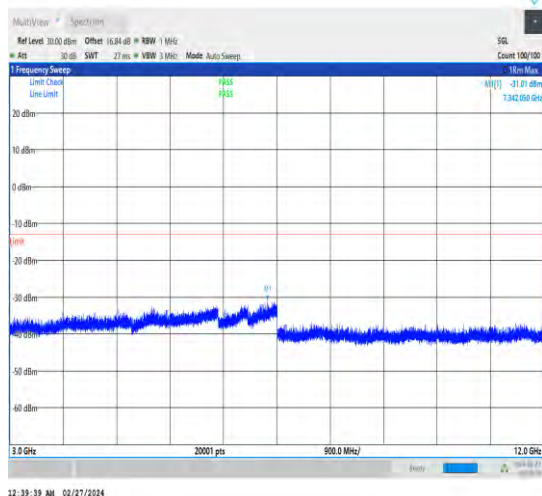
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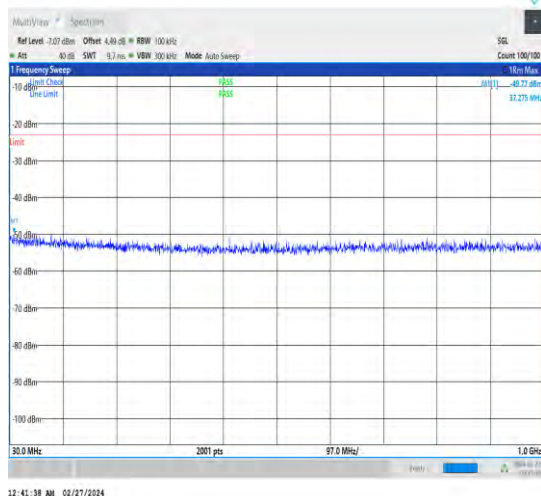
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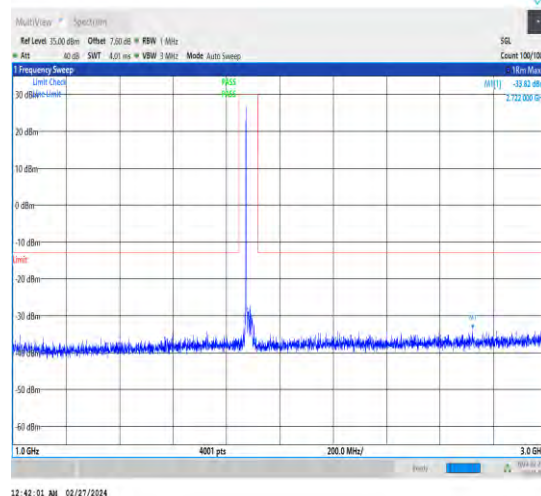
Report No.: SUCR240200003403

Rev.: 01

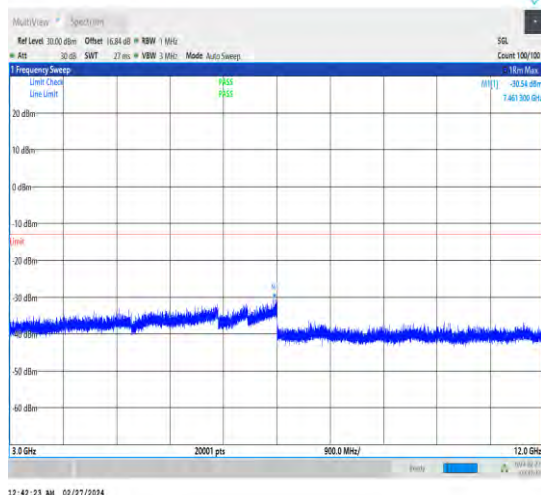
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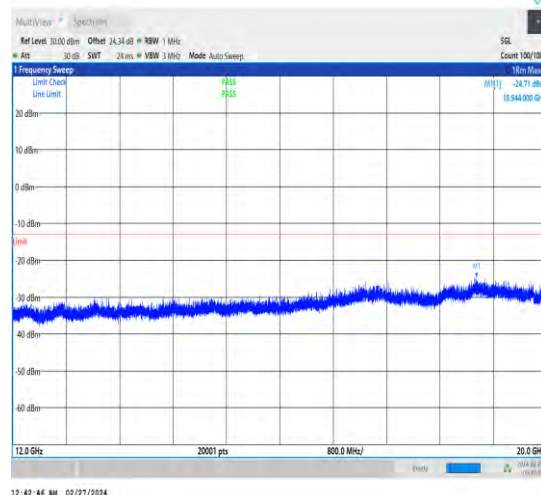
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1-N25-15-20-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@  
1-1000-3000-Ant4-2722.00--33.82--13-PASS



1-N25-15-20-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1  
@1-3000-12000-Ant4-7461.30--30.54--13-PASS



1-N25-15-20-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@  
1-12000-20000-Ant4-18944.00--24.71--13-PASS



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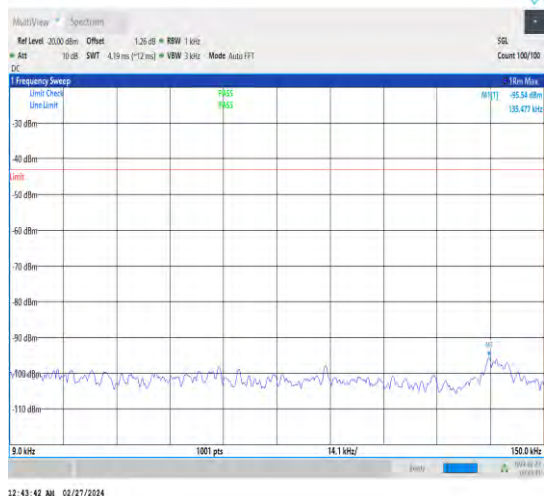
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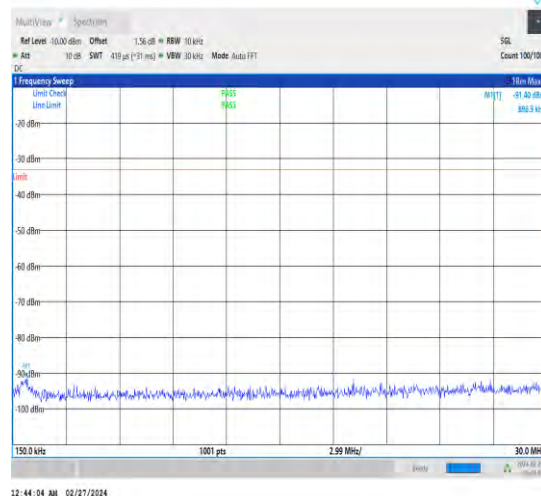
Report No.: SUCR240200003403

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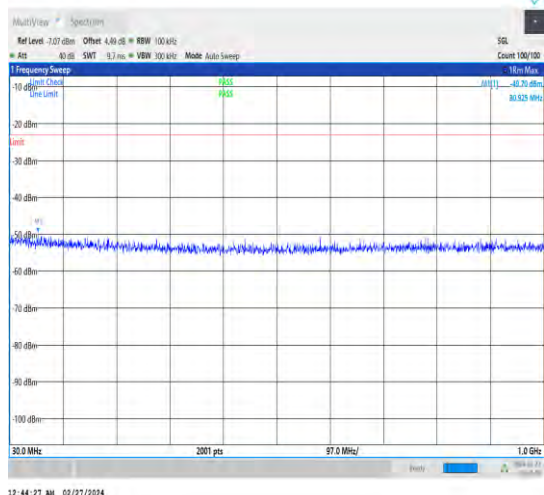
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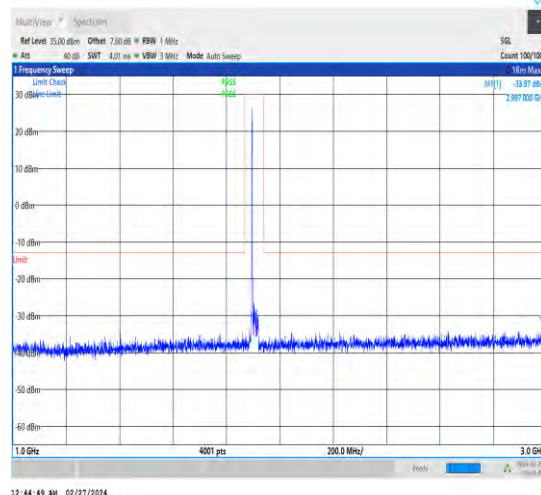
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1-N25-15-20-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@  
1-0.15-30-Ant4-0.90--91.40--33-PASS



1-N25-15-20-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1  
@1-30-1000-Ant4-80.93--49.70--23-PASS



1-N25-15-20-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@  
1-1000-3000-Ant4-2997.00--33.97--13-PASS



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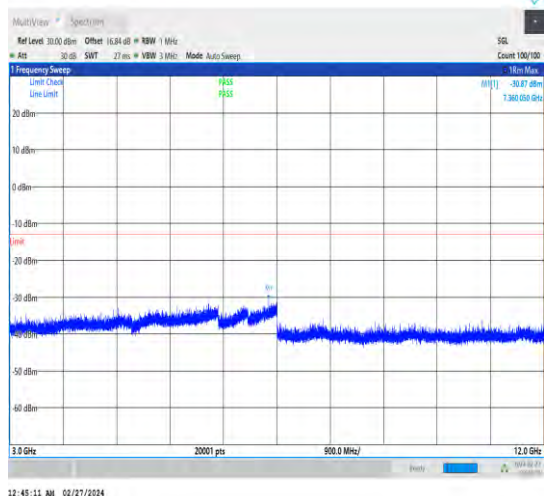
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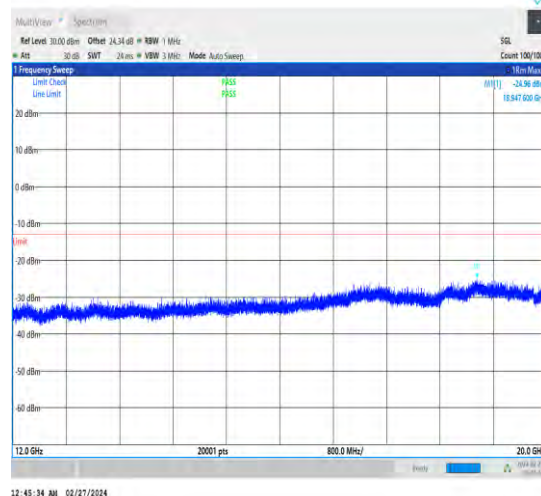
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1-N25-15-20-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1  
@1-3000-12000-Ant4-7360.05--30.87--13-PASS



1-N25-15-20-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@  
1-12000-20000-Ant4-18947.60--24.96--13-PASS



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## Field Strength of Spurious Radiation

Test Band = SA\_N25

Test Channel = LCH

| Final Data List |                |                   |                |          |                |                |                |            |
|-----------------|----------------|-------------------|----------------|----------|----------------|----------------|----------------|------------|
| NO.             | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1               | 3750.0375      | 53.46             | -49.36         | 30.50    | -60.66         | -13.00         | 47.66          | Horizontal |
| 2               | 5551.6276      | 68.99             | -45.47         | 33.21    | -38.53         | -13.00         | 25.53          | Horizontal |
| 3               | 6969.1985      | 51.23             | -44.38         | 36.44    | -51.97         | -13.00         | 38.97          | Horizontal |
| 4               | 9490.8245      | 50.16             | -41.48         | 39.16    | -47.42         | -13.00         | 34.42          | Horizontal |
| 5               | 11888.6944     | 47.52             | -37.94         | 39.55    | -46.13         | -13.00         | 33.13          | Horizontal |
| 6               | 17980.499      | 49.69             | -43.72         | 42.68    | -46.61         | -13.00         | 33.61          | Horizontal |

| Final Data List |                |                   |                |          |                |                |                |          |
|-----------------|----------------|-------------------|----------------|----------|----------------|----------------|----------------|----------|
| NO.             | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1               | 3735.7868      | 53.52             | -49.55         | 30.44    | -60.85         | -13.00         | 47.85          | Vertical |
| 2               | 5551.6276      | 67.81             | -45.47         | 33.21    | -39.71         | -13.00         | 26.71          | Vertical |
| 3               | 7468.7234      | 50.73             | -43.40         | 36.66    | -51.27         | -13.00         | 38.27          | Vertical |
| 4               | 9253.0627      | 51.71             | -41.22         | 39.08    | -45.69         | -13.00         | 32.69          | Vertical |
| 5               | 11900.695      | 47.43             | -37.72         | 39.50    | -46.05         | -13.00         | 33.05          | Vertical |
| 6               | 15013.3507     | 49.05             | -38.86         | 39.89    | -45.18         | -13.00         | 32.18          | Vertical |



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**Test Band = SA\_N25**
**Test Channel = MCH**

| Final Data List |                |                   |                |          |                |                |                |            |
|-----------------|----------------|-------------------|----------------|----------|----------------|----------------|----------------|------------|
| NO.             | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1               | 3746.2873      | 53.74             | -49.41         | 30.49    | -60.44         | -13.00         | 47.44          | Horizontal |
| 2               | 5619.131       | 68.60             | -45.48         | 33.36    | -38.78         | -13.00         | 25.78          | Horizontal |
| 3               | 7605.9803      | 50.45             | -43.32         | 36.71    | -51.42         | -13.00         | 38.42          | Horizontal |
| 4               | 9365.5683      | 58.70             | -41.52         | 38.56    | -39.52         | -13.00         | 26.52          | Horizontal |
| 5               | 11898.4449     | 47.20             | -37.74         | 39.51    | -46.29         | -13.00         | 33.29          | Horizontal |
| 6               | 15050.1025     | 48.71             | -39.15         | 39.85    | -45.85         | -13.00         | 32.85          | Horizontal |

| Final Data List |                |                   |                |          |                |                |                |          |
|-----------------|----------------|-------------------|----------------|----------|----------------|----------------|----------------|----------|
| NO.             | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1               | 3680.284       | 54.29             | -49.68         | 30.34    | -60.31         | -13.00         | 47.31          | Vertical |
| 2               | 5619.131       | 71.28             | -45.48         | 33.36    | -36.10         | -13.00         | 23.10          | Vertical |
| 3               | 7485.2243      | 50.68             | -43.28         | 36.63    | -51.23         | -13.00         | 38.23          | Vertical |
| 4               | 9472.0736      | 50.24             | -41.42         | 39.09    | -47.35         | -13.00         | 34.35          | Vertical |
| 5               | 11893.1947     | 47.26             | -37.85         | 39.53    | -46.32         | -13.00         | 33.32          | Vertical |
| 6               | 15037.3519     | 48.71             | -39.05         | 39.86    | -45.74         | -13.00         | 32.74          | Vertical |



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Test Band = SA\_N25

Test Channel = HCH

| Final Data List |                |                   |                |          |                |                |                |            |
|-----------------|----------------|-------------------|----------------|----------|----------------|----------------|----------------|------------|
| NO.             | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1               | 3791.2896      | 59.12             | -49.53         | 30.50    | -55.17         | -13.00         | 42.17          | Horizontal |
| 2               | 5686.6343      | 77.10             | -44.86         | 33.45    | -29.57         | -13.00         | 16.57          | Horizontal |
| 3               | 7463.4732      | 50.36             | -43.44         | 36.67    | -51.67         | -13.00         | 38.67          | Horizontal |
| 4               | 9477.3239      | 67.83             | -41.43         | 39.11    | -29.75         | -13.00         | 16.75          | Horizontal |
| 5               | 13268.7634     | 50.24             | -39.08         | 40.33    | -43.77         | -13.00         | 30.77          | Horizontal |
| 6               | 17923.4962     | 49.03             | -42.98         | 42.34    | -46.87         | -13.00         | 33.87          | Horizontal |

| Final Data List |                |                   |                |          |                |                |                |          |
|-----------------|----------------|-------------------|----------------|----------|----------------|----------------|----------------|----------|
| NO.             | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1               | 3791.2896      | 55.75             | -49.53         | 30.50    | -58.54         | -13.00         | 45.54          | Vertical |
| 2               | 5686.6343      | 82.09             | -44.86         | 33.45    | -24.58         | -13.00         | 11.58          | Vertical |
| 3               | 7453.7227      | 50.42             | -43.51         | 36.69    | -51.66         | -13.00         | 38.66          | Vertical |
| 4               | 9478.8239      | 53.31             | -41.44         | 39.12    | -44.27         | -13.00         | 31.27          | Vertical |
| 5               | 13268.7634     | 47.84             | -39.08         | 40.33    | -46.17         | -13.00         | 33.17          | Vertical |
| 6               | 17981.2491     | 49.58             | -43.74         | 42.69    | -46.73         | -13.00         | 33.73          | Vertical |

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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## Frequency Stability for SA

### Test Result

#### Frequency Error VS. Voltage

| Voltage |     |           |             |         |            |         |             |                |                 |         |
|---------|-----|-----------|-------------|---------|------------|---------|-------------|----------------|-----------------|---------|
| Band    | SCS | Bandwidth | Modulation  | Channel | RB Config  | Voltage | Temperature | Deviation (Hz) | Deviation (ppm) | Verdict |
| N25     | 15  | 20        | DFT-PI2BPSK | M       | Outer_Full | VH      | NT          | 3.100000       | 0.001647        | PASS    |
| N25     | 15  | 20        | DFT-PI2BPSK | M       | Outer_Full | VN      | NT          | 3.400000       | 0.001806        | PASS    |
| N25     | 15  | 20        | DFT-PI2BPSK | M       | Outer_Full | VL      | NT          | 3.000000       | 0.001594        | PASS    |
| N25     | 15  | 20        | CP-QPSK     | M       | Outer_Full | VH      | NT          | -2.600000      | -0.001381       | PASS    |
| N25     | 15  | 20        | CP-QPSK     | M       | Outer_Full | VN      | NT          | -3.000000      | -0.001594       | PASS    |
| N25     | 15  | 20        | CP-QPSK     | M       | Outer_Full | VL      | NT          | -3.800000      | -0.002019       | PASS    |



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**Frequency Error VS. Temperature**
**Temperature**

| Band | SCS | Bandwidth | Modulation  | Channel | RB Config  | Voltage | Temperature | Deviation (Hz) | Deviation (ppm) | Verdict |
|------|-----|-----------|-------------|---------|------------|---------|-------------|----------------|-----------------|---------|
| N25  | 15  | 20        | DFT-PI2BPSK | M       | Outer_Full | NV      | -30         | 2.800000       | 0.001487        | PASS    |
| N25  | 15  | 20        | DFT-PI2BPSK | M       | Outer_Full | NV      | -20         | 1.500000       | 0.000797        | PASS    |
| N25  | 15  | 20        | DFT-PI2BPSK | M       | Outer_Full | NV      | -10         | 0.500000       | 0.000266        | PASS    |
| N25  | 15  | 20        | DFT-PI2BPSK | M       | Outer_Full | NV      | 0           | 1.300000       | 0.000691        | PASS    |
| N25  | 15  | 20        | DFT-PI2BPSK | M       | Outer_Full | NV      | 10          | -1.000000      | -0.000531       | PASS    |
| N25  | 15  | 20        | DFT-PI2BPSK | M       | Outer_Full | NV      | 20          | 1.200000       | 0.000637        | PASS    |
| N25  | 15  | 20        | DFT-PI2BPSK | M       | Outer_Full | NV      | 30          | 1.200000       | 0.000637        | PASS    |
| N25  | 15  | 20        | DFT-PI2BPSK | M       | Outer_Full | NV      | 40          | -4.100000      | -0.002178       | PASS    |
| N25  | 15  | 20        | DFT-PI2BPSK | M       | Outer_Full | NV      | 50          | -1.200000      | -0.000637       | PASS    |
| N25  | 15  | 20        | CP-QPSK     | M       | Outer_Full | NV      | -30         | -2.500000      | -0.001328       | PASS    |
| N25  | 15  | 20        | CP-QPSK     | M       | Outer_Full | NV      | -20         | -4.300000      | -0.002284       | PASS    |
| N25  | 15  | 20        | CP-QPSK     | M       | Outer_Full | NV      | -10         | -1.700000      | -0.000903       | PASS    |
| N25  | 15  | 20        | CP-QPSK     | M       | Outer_Full | NV      | 0           | -3.600000      | -0.001912       | PASS    |
| N25  | 15  | 20        | CP-QPSK     | M       | Outer_Full | NV      | 10          | -2.800000      | -0.001487       | PASS    |
| N25  | 15  | 20        | CP-QPSK     | M       | Outer_Full | NV      | 20          | -4.300000      | -0.002284       | PASS    |
| N25  | 15  | 20        | CP-QPSK     | M       | Outer_Full | NV      | 30          | -2.500000      | -0.001328       | PASS    |
| N25  | 15  | 20        | CP-QPSK     | M       | Outer_Full | NV      | 40          | -2.800000      | -0.001487       | PASS    |
| N25  | 15  | 20        | CP-QPSK     | M       | Outer_Full | NV      | 50          | -3.000000      | -0.001594       | PASS    |

---End of Attachment---



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