

Appendix B.15

LTE CA_7C



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Effective (Isotropic) Radiated Power Output Data

Test Result

ANT31

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | EIRP(dBm) | Limit(dBm) | Verdict |
|------|-------------|-------------|-------------|------------------|-------------|-----------|------------|---------|
| 7-7 | 10MHz-20MHz | QPSK-QPSK | 20805-20949 | 1RB#0-0RB#0 | 23.05 | 20.05 | 33.00 | PASS |
| 7-7 | 10MHz-20MHz | QPSK-QPSK | 20805-20949 | 50RB#0-100RB#0 | 22.01 | 19.01 | 33.00 | PASS |
| 7-7 | 10MHz-20MHz | QPSK-QPSK | 21006-21150 | 1RB#0-0RB#0 | 22.83 | 19.83 | 33.00 | PASS |
| 7-7 | 10MHz-20MHz | QPSK-QPSK | 21006-21150 | 50RB#0-100RB#0 | 21.86 | 18.86 | 33.00 | PASS |
| 7-7 | 10MHz-20MHz | QPSK-QPSK | 21206-21350 | 1RB#0-0RB#0 | 22.84 | 19.84 | 33.00 | PASS |
| 7-7 | 10MHz-20MHz | QPSK-QPSK | 21206-21350 | 50RB#0-100RB#0 | 21.88 | 18.88 | 33.00 | PASS |
| 7-7 | 10MHz-20MHz | 16QAM-16QAM | 20805-20949 | 1RB#0-0RB#0 | 22.65 | 19.65 | 33.00 | PASS |
| 7-7 | 10MHz-20MHz | 16QAM-16QAM | 20805-20949 | 50RB#0-100RB#0 | 21.04 | 18.04 | 33.00 | PASS |
| 7-7 | 10MHz-20MHz | 16QAM-16QAM | 21006-21150 | 1RB#0-0RB#0 | 22.63 | 19.63 | 33.00 | PASS |
| 7-7 | 10MHz-20MHz | 16QAM-16QAM | 21006-21150 | 50RB#0-100RB#0 | 20.87 | 17.87 | 33.00 | PASS |
| 7-7 | 10MHz-20MHz | 16QAM-16QAM | 21206-21350 | 1RB#0-0RB#0 | 22.53 | 19.53 | 33.00 | PASS |
| 7-7 | 10MHz-20MHz | 16QAM-16QAM | 21206-21350 | 50RB#0-100RB#0 | 20.93 | 17.93 | 33.00 | PASS |
| 7-7 | 10MHz-20MHz | 64QAM-64QAM | 20805-20949 | 1RB#0-0RB#0 | 21.56 | 18.56 | 33.00 | PASS |
| 7-7 | 10MHz-20MHz | 64QAM-64QAM | 20805-20949 | 50RB#0-100RB#0 | 21.03 | 18.03 | 33.00 | PASS |
| 7-7 | 10MHz-20MHz | 64QAM-64QAM | 21006-21150 | 1RB#0-0RB#0 | 21.28 | 18.28 | 33.00 | PASS |
| 7-7 | 10MHz-20MHz | 64QAM-64QAM | 21006-21150 | 50RB#0-100RB#0 | 20.91 | 17.91 | 33.00 | PASS |
| 7-7 | 10MHz-20MHz | 64QAM-64QAM | 21206-21350 | 1RB#0-0RB#0 | 21.38 | 18.38 | 33.00 | PASS |
| 7-7 | 10MHz-20MHz | 64QAM-64QAM | 21206-21350 | 50RB#0-100RB#0 | 20.90 | 17.9 | 33.00 | PASS |
| 7-7 | 15MHz-10MHz | QPSK-QPSK | 20825-20945 | 1RB#0-0RB#0 | 23.10 | 20.1 | 33.00 | PASS |
| 7-7 | 15MHz-10MHz | QPSK-QPSK | 20825-20945 | 75RB#0-50RB#0 | 22.05 | 19.05 | 33.00 | PASS |
| 7-7 | 15MHz-10MHz | QPSK-QPSK | 21051-21171 | 1RB#0-0RB#0 | 22.82 | 19.82 | 33.00 | PASS |
| 7-7 | 15MHz-10MHz | QPSK-QPSK | 21051-21171 | 75RB#0-50RB#0 | 21.86 | 18.86 | 33.00 | PASS |
| 7-7 | 15MHz-10MHz | QPSK-QPSK | 21277-21397 | 1RB#0-0RB#0 | 22.87 | 19.87 | 33.00 | PASS |
| 7-7 | 15MHz-10MHz | QPSK-QPSK | 21277-21397 | 75RB#0-50RB#0 | 21.96 | 18.96 | 33.00 | PASS |
| 7-7 | 15MHz-10MHz | 16QAM-16QAM | 20825-20945 | 1RB#0-0RB#0 | 22.92 | 19.92 | 33.00 | PASS |
| 7-7 | 15MHz-10MHz | 16QAM-16QAM | 20825-20945 | 75RB#0-50RB#0 | 21.09 | 18.09 | 33.00 | PASS |
| 7-7 | 15MHz-10MHz | 16QAM-16QAM | 21051-21171 | 1RB#0-0RB#0 | 22.38 | 19.38 | 33.00 | PASS |



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|-----|-------------|-------------|-------------|----------------|-------|-------|-------|------|
| 7-7 | 15MHz-10MHz | 16QAM-16QAM | 21051-21171 | 75RB#0-50RB#0 | 20.90 | 17.9 | 33.00 | PASS |
| 7-7 | 15MHz-10MHz | 16QAM-16QAM | 21277-21397 | 1RB#0-0RB#0 | 22.59 | 19.59 | 33.00 | PASS |
| 7-7 | 15MHz-10MHz | 16QAM-16QAM | 21277-21397 | 75RB#0-50RB#0 | 20.95 | 17.95 | 33.00 | PASS |
| 7-7 | 15MHz-10MHz | 64QAM-64QAM | 20825-20945 | 1RB#0-0RB#0 | 21.76 | 18.76 | 33.00 | PASS |
| 7-7 | 15MHz-10MHz | 64QAM-64QAM | 20825-20945 | 75RB#0-50RB#0 | 20.87 | 17.87 | 33.00 | PASS |
| 7-7 | 15MHz-10MHz | 64QAM-64QAM | 21051-21171 | 1RB#0-0RB#0 | 21.24 | 18.24 | 33.00 | PASS |
| 7-7 | 15MHz-10MHz | 64QAM-64QAM | 21051-21171 | 75RB#0-50RB#0 | 20.87 | 17.87 | 33.00 | PASS |
| 7-7 | 15MHz-10MHz | 64QAM-64QAM | 21277-21397 | 1RB#0-0RB#0 | 21.44 | 18.44 | 33.00 | PASS |
| 7-7 | 15MHz-10MHz | 64QAM-64QAM | 21277-21397 | 75RB#0-50RB#0 | 20.90 | 17.9 | 33.00 | PASS |
| 7-7 | 15MHz-15MHz | QPSK-QPSK | 20825-20975 | 1RB#0-0RB#0 | 23.10 | 20.1 | 33.00 | PASS |
| 7-7 | 15MHz-15MHz | QPSK-QPSK | 20825-20975 | 75RB#0-75RB#0 | 22.03 | 19.03 | 33.00 | PASS |
| 7-7 | 15MHz-15MHz | QPSK-QPSK | 21025-21175 | 1RB#0-0RB#0 | 22.88 | 19.88 | 33.00 | PASS |
| 7-7 | 15MHz-15MHz | QPSK-QPSK | 21025-21175 | 75RB#0-75RB#0 | 21.90 | 18.9 | 33.00 | PASS |
| 7-7 | 15MHz-15MHz | QPSK-QPSK | 21225-21375 | 1RB#0-0RB#0 | 22.90 | 19.9 | 33.00 | PASS |
| 7-7 | 15MHz-15MHz | QPSK-QPSK | 21225-21375 | 75RB#0-75RB#0 | 21.98 | 18.98 | 33.00 | PASS |
| 7-7 | 15MHz-15MHz | 16QAM-16QAM | 20825-20975 | 1RB#0-0RB#0 | 22.91 | 19.91 | 33.00 | PASS |
| 7-7 | 15MHz-15MHz | 16QAM-16QAM | 20825-20975 | 75RB#0-75RB#0 | 21.08 | 18.08 | 33.00 | PASS |
| 7-7 | 15MHz-15MHz | 16QAM-16QAM | 21025-21175 | 1RB#0-0RB#0 | 22.46 | 19.46 | 33.00 | PASS |
| 7-7 | 15MHz-15MHz | 16QAM-16QAM | 21025-21175 | 75RB#0-75RB#0 | 20.91 | 17.91 | 33.00 | PASS |
| 7-7 | 15MHz-15MHz | 16QAM-16QAM | 21225-21375 | 1RB#0-0RB#0 | 22.46 | 19.46 | 33.00 | PASS |
| 7-7 | 15MHz-15MHz | 16QAM-16QAM | 21225-21375 | 75RB#0-75RB#0 | 20.95 | 17.95 | 33.00 | PASS |
| 7-7 | 15MHz-15MHz | 64QAM-64QAM | 20825-20975 | 1RB#0-0RB#0 | 21.65 | 18.65 | 33.00 | PASS |
| 7-7 | 15MHz-15MHz | 64QAM-64QAM | 20825-20975 | 75RB#0-75RB#0 | 20.95 | 17.95 | 33.00 | PASS |
| 7-7 | 15MHz-15MHz | 64QAM-64QAM | 21025-21175 | 1RB#0-0RB#0 | 21.37 | 18.37 | 33.00 | PASS |
| 7-7 | 15MHz-15MHz | 64QAM-64QAM | 21025-21175 | 75RB#0-75RB#0 | 20.91 | 17.91 | 33.00 | PASS |
| 7-7 | 15MHz-15MHz | 64QAM-64QAM | 21225-21375 | 1RB#0-0RB#0 | 21.46 | 18.46 | 33.00 | PASS |
| 7-7 | 15MHz-15MHz | 64QAM-64QAM | 21225-21375 | 75RB#0-75RB#0 | 20.89 | 17.89 | 33.00 | PASS |
| 7-7 | 15MHz-20MHz | QPSK-QPSK | 20828-20999 | 1RB#0-0RB#0 | 23.09 | 20.09 | 33.00 | PASS |
| 7-7 | 15MHz-20MHz | QPSK-QPSK | 20828-20999 | 75RB#0-100RB#0 | 22.02 | 19.02 | 33.00 | PASS |
| 7-7 | 15MHz-20MHz | QPSK-QPSK | 21003-21174 | 1RB#0-0RB#0 | 22.79 | 19.79 | 33.00 | PASS |
| 7-7 | 15MHz-20MHz | QPSK-QPSK | 21003-21174 | 75RB#0-100RB#0 | 21.87 | 18.87 | 33.00 | PASS |
| 7-7 | 15MHz-20MHz | QPSK-QPSK | 21179-21350 | 1RB#0-0RB#0 | 22.78 | 19.78 | 33.00 | PASS |



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|-----|-------------|-------------|-------------|----------------|-------|-------|-------|------|
| 7-7 | 15MHz-20MHz | QPSK-QPSK | 21179-21350 | 75RB#0-100RB#0 | 21.89 | 18.89 | 33.00 | PASS |
| 7-7 | 15MHz-20MHz | 16QAM-16QAM | 20828-20999 | 1RB#0-0RB#0 | 22.66 | 19.66 | 33.00 | PASS |
| 7-7 | 15MHz-20MHz | 16QAM-16QAM | 20828-20999 | 75RB#0-100RB#0 | 21.00 | 18 | 33.00 | PASS |
| 7-7 | 15MHz-20MHz | 16QAM-16QAM | 21003-21174 | 1RB#0-0RB#0 | 22.38 | 19.38 | 33.00 | PASS |
| 7-7 | 15MHz-20MHz | 16QAM-16QAM | 21003-21174 | 75RB#0-100RB#0 | 20.91 | 17.91 | 33.00 | PASS |
| 7-7 | 15MHz-20MHz | 16QAM-16QAM | 21179-21350 | 1RB#0-0RB#0 | 22.36 | 19.36 | 33.00 | PASS |
| 7-7 | 15MHz-20MHz | 16QAM-16QAM | 21179-21350 | 75RB#0-100RB#0 | 20.98 | 17.98 | 33.00 | PASS |
| 7-7 | 15MHz-20MHz | 64QAM-64QAM | 20828-20999 | 1RB#0-0RB#0 | 21.60 | 18.6 | 33.00 | PASS |
| 7-7 | 15MHz-20MHz | 64QAM-64QAM | 20828-20999 | 75RB#0-100RB#0 | 21.05 | 18.05 | 33.00 | PASS |
| 7-7 | 15MHz-20MHz | 64QAM-64QAM | 21003-21174 | 1RB#0-0RB#0 | 21.40 | 18.4 | 33.00 | PASS |
| 7-7 | 15MHz-20MHz | 64QAM-64QAM | 21003-21174 | 75RB#0-100RB#0 | 20.89 | 17.89 | 33.00 | PASS |
| 7-7 | 15MHz-20MHz | 64QAM-64QAM | 21179-21350 | 1RB#0-0RB#0 | 21.30 | 18.3 | 33.00 | PASS |
| 7-7 | 15MHz-20MHz | 64QAM-64QAM | 21179-21350 | 75RB#0-100RB#0 | 20.91 | 17.91 | 33.00 | PASS |
| 7-7 | 20MHz-10MHz | QPSK-QPSK | 20850-20994 | 100RB#0-50RB#0 | 22.06 | 19.06 | 33.00 | PASS |
| 7-7 | 20MHz-10MHz | QPSK-QPSK | 20850-20994 | 1RB#0-0RB#0 | 23.09 | 20.09 | 33.00 | PASS |
| 7-7 | 20MHz-10MHz | QPSK-QPSK | 21051-21195 | 100RB#0-50RB#0 | 21.86 | 18.86 | 33.00 | PASS |
| 7-7 | 20MHz-10MHz | QPSK-QPSK | 21051-21195 | 1RB#0-0RB#0 | 20.96 | 17.96 | 33.00 | PASS |
| 7-7 | 20MHz-10MHz | QPSK-QPSK | 21251-21395 | 100RB#0-50RB#0 | 21.89 | 18.89 | 33.00 | PASS |
| 7-7 | 20MHz-10MHz | QPSK-QPSK | 21251-21395 | 1RB#0-0RB#0 | 20.92 | 17.92 | 33.00 | PASS |
| 7-7 | 20MHz-10MHz | 16QAM-16QAM | 20850-20994 | 100RB#0-50RB#0 | 21.05 | 18.05 | 33.00 | PASS |
| 7-7 | 20MHz-10MHz | 16QAM-16QAM | 20850-20994 | 1RB#0-0RB#0 | 22.86 | 19.86 | 33.00 | PASS |
| 7-7 | 20MHz-10MHz | 16QAM-16QAM | 21051-21195 | 100RB#0-50RB#0 | 20.90 | 17.9 | 33.00 | PASS |
| 7-7 | 20MHz-10MHz | 16QAM-16QAM | 21051-21195 | 1RB#0-0RB#0 | 22.56 | 19.56 | 33.00 | PASS |
| 7-7 | 20MHz-10MHz | 16QAM-16QAM | 21251-21395 | 100RB#0-50RB#0 | 20.97 | 17.97 | 33.00 | PASS |
| 7-7 | 20MHz-10MHz | 16QAM-16QAM | 21251-21395 | 1RB#0-0RB#0 | 22.60 | 19.6 | 33.00 | PASS |
| 7-7 | 20MHz-10MHz | 64QAM-64QAM | 20850-20994 | 100RB#0-50RB#0 | 21.02 | 18.02 | 33.00 | PASS |
| 7-7 | 20MHz-10MHz | 64QAM-64QAM | 20850-20994 | 1RB#0-0RB#0 | 21.73 | 18.73 | 33.00 | PASS |
| 7-7 | 20MHz-10MHz | 64QAM-64QAM | 21051-21195 | 100RB#0-50RB#0 | 20.93 | 17.93 | 33.00 | PASS |
| 7-7 | 20MHz-10MHz | 64QAM-64QAM | 21051-21195 | 1RB#0-0RB#0 | 21.33 | 18.33 | 33.00 | PASS |
| 7-7 | 20MHz-10MHz | 64QAM-64QAM | 21251-21395 | 100RB#0-50RB#0 | 20.91 | 17.91 | 33.00 | PASS |
| 7-7 | 20MHz-10MHz | 64QAM-64QAM | 21251-21395 | 1RB#0-0RB#0 | 21.42 | 18.42 | 33.00 | PASS |
| 7-7 | 20MHz-15MHz | QPSK-QPSK | 20850-21021 | 100RB#0-75RB#0 | 21.99 | 18.99 | 33.00 | PASS |



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|-----|-------------|-------------|-------------|-----------------|-------|-------|-------|------|
| 7-7 | 20MHz-15MHz | QPSK-QPSK | 20850-21021 | 1RB#0-0RB#0 | 23.12 | 20.12 | 33.00 | PASS |
| 7-7 | 20MHz-15MHz | QPSK-QPSK | 21026-21197 | 100RB#0-75RB#0 | 21.93 | 18.93 | 33.00 | PASS |
| 7-7 | 20MHz-15MHz | QPSK-QPSK | 21026-21197 | 1RB#0-0RB#0 | 22.80 | 19.8 | 33.00 | PASS |
| 7-7 | 20MHz-15MHz | QPSK-QPSK | 21201-21372 | 100RB#0-75RB#0 | 21.90 | 18.9 | 33.00 | PASS |
| 7-7 | 20MHz-15MHz | QPSK-QPSK | 21201-21372 | 1RB#0-0RB#0 | 22.84 | 19.84 | 33.00 | PASS |
| 7-7 | 20MHz-15MHz | 16QAM-16QAM | 20850-21021 | 100RB#0-75RB#0 | 21.06 | 18.06 | 33.00 | PASS |
| 7-7 | 20MHz-15MHz | 16QAM-16QAM | 20850-21021 | 1RB#0-0RB#0 | 22.88 | 19.88 | 33.00 | PASS |
| 7-7 | 20MHz-15MHz | 16QAM-16QAM | 21026-21197 | 100RB#0-75RB#0 | 20.96 | 17.96 | 33.00 | PASS |
| 7-7 | 20MHz-15MHz | 16QAM-16QAM | 21026-21197 | 1RB#0-0RB#0 | 22.44 | 19.44 | 33.00 | PASS |
| 7-7 | 20MHz-15MHz | 16QAM-16QAM | 21201-21372 | 100RB#0-75RB#0 | 20.95 | 17.95 | 33.00 | PASS |
| 7-7 | 20MHz-15MHz | 16QAM-16QAM | 21201-21372 | 1RB#0-0RB#0 | 22.59 | 19.59 | 33.00 | PASS |
| 7-7 | 20MHz-15MHz | 64QAM-64QAM | 20850-21021 | 100RB#0-75RB#0 | 21.08 | 18.08 | 33.00 | PASS |
| 7-7 | 20MHz-15MHz | 64QAM-64QAM | 20850-21021 | 1RB#0-0RB#0 | 21.63 | 18.63 | 33.00 | PASS |
| 7-7 | 20MHz-15MHz | 64QAM-64QAM | 21026-21197 | 100RB#0-75RB#0 | 20.91 | 17.91 | 33.00 | PASS |
| 7-7 | 20MHz-15MHz | 64QAM-64QAM | 21026-21197 | 1RB#0-0RB#0 | 21.44 | 18.44 | 33.00 | PASS |
| 7-7 | 20MHz-15MHz | 64QAM-64QAM | 21201-21372 | 100RB#0-75RB#0 | 21.01 | 18.01 | 33.00 | PASS |
| 7-7 | 20MHz-15MHz | 64QAM-64QAM | 21201-21372 | 1RB#0-0RB#0 | 21.34 | 18.34 | 33.00 | PASS |
| 7-7 | 20MHz-20MHz | QPSK-QPSK | 20850-21048 | 100RB#0-100RB#0 | 22.07 | 19.07 | 33.00 | PASS |
| 7-7 | 20MHz-20MHz | QPSK-QPSK | 20850-21048 | 1RB#0-0RB#0 | 23.08 | 20.08 | 33.00 | PASS |
| 7-7 | 20MHz-20MHz | QPSK-QPSK | 21001-21199 | 100RB#0-100RB#0 | 21.98 | 18.98 | 33.00 | PASS |
| 7-7 | 20MHz-20MHz | QPSK-QPSK | 21001-21199 | 1RB#0-0RB#0 | 22.82 | 19.82 | 33.00 | PASS |
| 7-7 | 20MHz-20MHz | QPSK-QPSK | 21152-21350 | 100RB#0-100RB#0 | 21.97 | 18.97 | 33.00 | PASS |
| 7-7 | 20MHz-20MHz | QPSK-QPSK | 21152-21350 | 1RB#0-0RB#0 | 22.86 | 19.86 | 33.00 | PASS |
| 7-7 | 20MHz-20MHz | 16QAM-16QAM | 20850-21048 | 100RB#0-100RB#0 | 21.05 | 18.05 | 33.00 | PASS |
| 7-7 | 20MHz-20MHz | 16QAM-16QAM | 20850-21048 | 1RB#0-0RB#0 | 22.87 | 19.87 | 33.00 | PASS |
| 7-7 | 20MHz-20MHz | 16QAM-16QAM | 21001-21199 | 100RB#0-100RB#0 | 20.94 | 17.94 | 33.00 | PASS |
| 7-7 | 20MHz-20MHz | 16QAM-16QAM | 21001-21199 | 1RB#0-0RB#0 | 22.69 | 19.69 | 33.00 | PASS |
| 7-7 | 20MHz-20MHz | 16QAM-16QAM | 21152-21350 | 100RB#0-100RB#0 | 20.97 | 17.97 | 33.00 | PASS |
| 7-7 | 20MHz-20MHz | 16QAM-16QAM | 21152-21350 | 1RB#0-0RB#0 | 22.63 | 19.63 | 33.00 | PASS |
| 7-7 | 20MHz-20MHz | 64QAM-64QAM | 20850-21048 | 100RB#0-100RB#0 | 21.10 | 18.1 | 33.00 | PASS |
| 7-7 | 20MHz-20MHz | 64QAM-64QAM | 20850-21048 | 1RB#0-0RB#0 | 21.64 | 18.64 | 33.00 | PASS |
| 7-7 | 20MHz-20MHz | 64QAM-64QAM | 21001-21199 | 100RB#0-100RB#0 | 20.96 | 17.96 | 33.00 | PASS |



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Report No.: SEWM2309000347RG01

Rev.: 01

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| | | | | | | | | |
|-----|-------------|-------------|-------------|-----------------|-------|-------|-------|------|
| 7-7 | 20MHz-20MHz | 64QAM-64QAM | 21001-21199 | 1RB#0-0RB#0 | 21.46 | 18.46 | 33.00 | PASS |
| 7-7 | 20MHz-20MHz | 64QAM-64QAM | 21152-21350 | 100RB#0-100RB#0 | 20.99 | 17.99 | 33.00 | PASS |
| 7-7 | 20MHz-20MHz | 64QAM-64QAM | 21152-21350 | 1RB#0-0RB#0 | 21.34 | 18.34 | 33.00 | PASS |



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Peak-to-Average Ratio(CCDF)

Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|------|-------------|-------------|-------------|------------------|------------|-----------|---------|
| 7-7 | 20MHz-20MHz | QPSK-QPSK | 21001-21199 | 100RB#0-100RB#0 | 5.94 | 13 | PASS |
| 7-7 | 20MHz-20MHz | QPSK-QPSK | 21152-21350 | 100RB#0-100RB#0 | 5.84 | 13 | PASS |
| 7-7 | 20MHz-20MHz | 16QAM-16QAM | 21001-21199 | 100RB#0-100RB#0 | 6.62 | 13 | PASS |
| 7-7 | 20MHz-20MHz | 16QAM-16QAM | 21152-21350 | 100RB#0-100RB#0 | 6.96 | 13 | PASS |
| 7-7 | 20MHz-20MHz | 64QAM-64QAM | 21001-21199 | 100RB#0-100RB#0 | 6.82 | 13 | PASS |
| 7-7 | 20MHz-20MHz | 64QAM-64QAM | 21152-21350 | 100RB#0-100RB#0 | 7.30 | 13 | PASS |

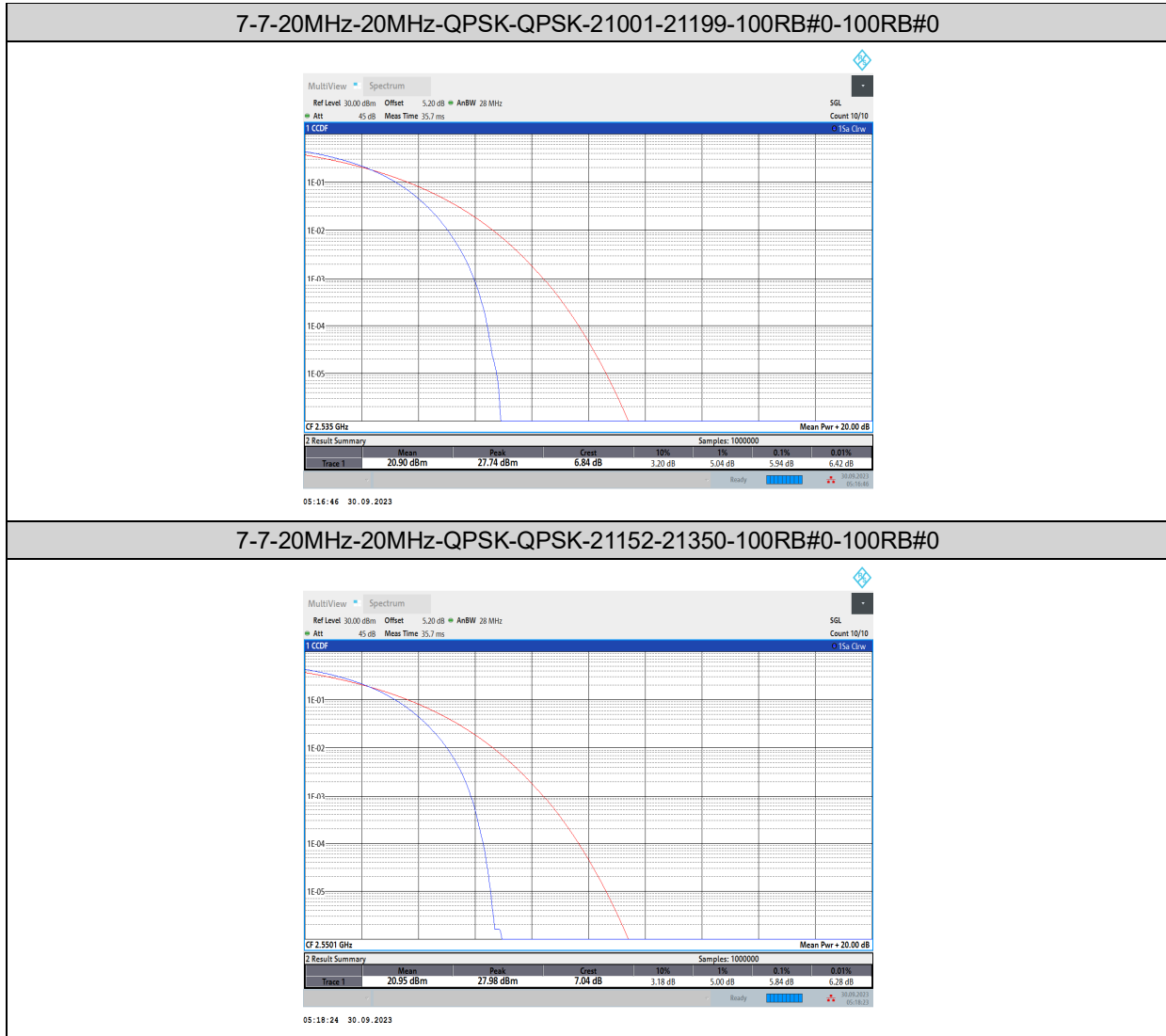


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Test Graphs

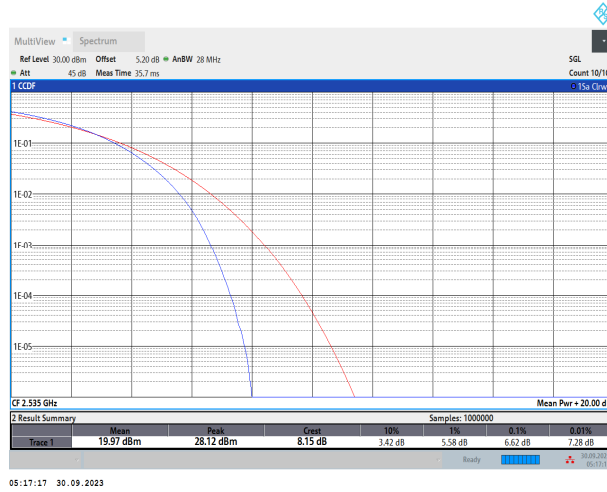


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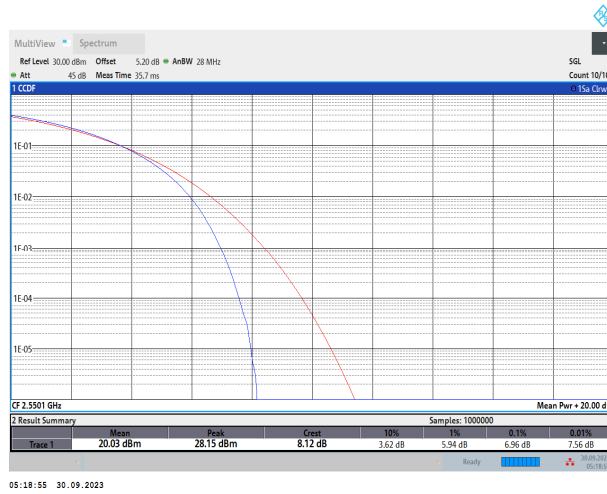
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7-7-20MHz-20MHz-16QAM-16QAM-21001-21199-100RB#0-100RB#0



7-7-20MHz-20MHz-16QAM-16QAM-21152-21350-100RB#0-100RB#0

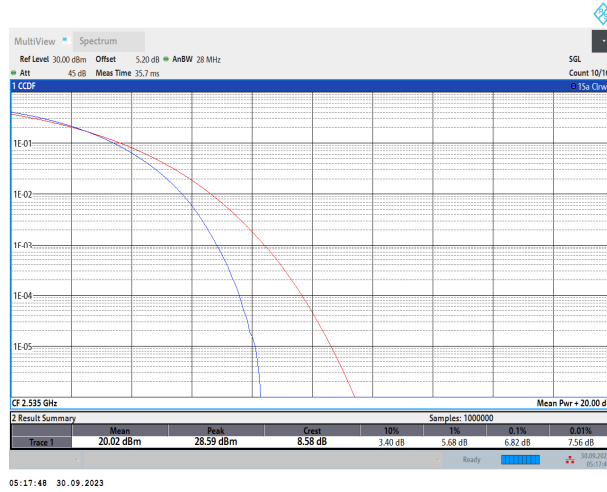


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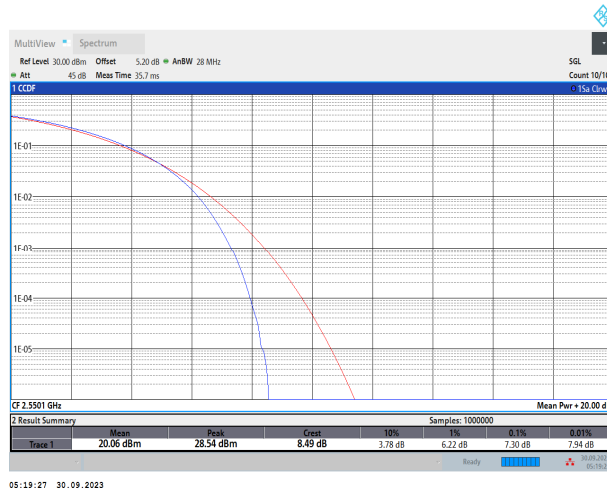
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7-7-20MHz-20MHz-64QAM-64QAM-21001-21199-100RB#0-100RB#0



7-7-20MHz-20MHz-64QAM-64QAM-21152-21350-100RB#0-100RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|------|-------------|-------------|-------------|------------------|--------------------------|----------------------|---------|
| 7-7 | 10MHz-20MHz | QPSK-QPSK | 21006-21150 | 50RB#0-100RB#0 | 27.687 | 29.22 | PASS |
| 7-7 | 10MHz-20MHz | 16QAM-16QAM | 21006-21150 | 50RB#0-100RB#0 | 27.732 | 29.10 | PASS |
| 7-7 | 10MHz-20MHz | 64QAM-64QAM | 21006-21150 | 50RB#0-100RB#0 | 27.643 | 29.10 | PASS |
| 7-7 | 15MHz-10MHz | QPSK-QPSK | 21051-21171 | 75RB#0-50RB#0 | 23.117 | 24.65 | PASS |
| 7-7 | 15MHz-10MHz | 16QAM-16QAM | 21051-21171 | 75RB#0-50RB#0 | 23.056 | 24.55 | PASS |
| 7-7 | 15MHz-10MHz | 64QAM-64QAM | 21051-21171 | 75RB#0-50RB#0 | 23.095 | 24.70 | PASS |
| 7-7 | 15MHz-15MHz | QPSK-QPSK | 21025-21175 | 75RB#0-75RB#0 | 28.295 | 30.06 | PASS |
| 7-7 | 15MHz-15MHz | 16QAM-16QAM | 21025-21175 | 75RB#0-75RB#0 | 28.325 | 30.00 | PASS |
| 7-7 | 15MHz-15MHz | 64QAM-64QAM | 21025-21175 | 75RB#0-75RB#0 | 28.237 | 30.06 | PASS |
| 7-7 | 15MHz-20MHz | QPSK-QPSK | 21003-21174 | 75RB#0-100RB#0 | 32.601 | 34.37 | PASS |
| 7-7 | 15MHz-20MHz | 16QAM-16QAM | 21003-21174 | 75RB#0-100RB#0 | 32.608 | 34.30 | PASS |
| 7-7 | 15MHz-20MHz | 64QAM-64QAM | 21003-21174 | 75RB#0-100RB#0 | 32.529 | 34.37 | PASS |
| 7-7 | 20MHz-10MHz | QPSK-QPSK | 21051-21195 | 100RB#0-50RB#0 | 27.747 | 29.58 | PASS |
| 7-7 | 20MHz-10MHz | 16QAM-16QAM | 21051-21195 | 100RB#0-50RB#0 | 27.71 | 29.52 | PASS |
| 7-7 | 20MHz-10MHz | 64QAM-64QAM | 21051-21195 | 100RB#0-50RB#0 | 27.708 | 29.40 | PASS |
| 7-7 | 20MHz-15MHz | QPSK-QPSK | 21026-21197 | 100RB#0-75RB#0 | 32.702 | 34.51 | PASS |
| 7-7 | 20MHz-15MHz | 16QAM-16QAM | 21026-21197 | 100RB#0-75RB#0 | 32.62 | 34.44 | PASS |
| 7-7 | 20MHz-15MHz | 64QAM-64QAM | 21026-21197 | 100RB#0-75RB#0 | 32.511 | 34.37 | PASS |
| 7-7 | 20MHz-20MHz | QPSK-QPSK | 21001-21199 | 100RB#0-100RB#0 | 37.744 | 40.72 | PASS |
| 7-7 | 20MHz-20MHz | 16QAM-16QAM | 21001-21199 | 100RB#0-100RB#0 | 37.745 | 40.32 | PASS |
| 7-7 | 20MHz-20MHz | 64QAM-64QAM | 21001-21199 | 100RB#0-100RB#0 | 37.574 | 40.24 | PASS |



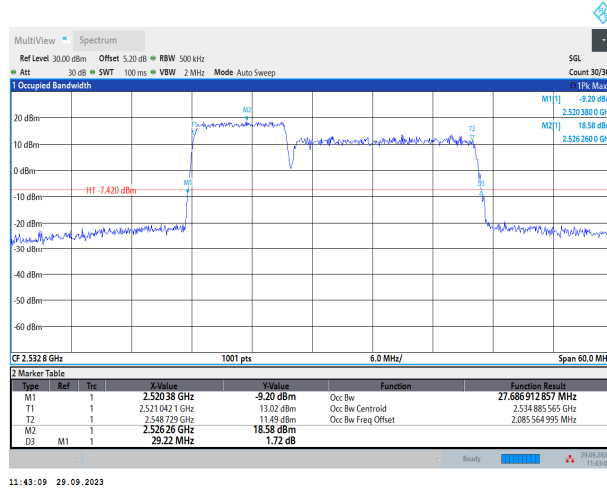
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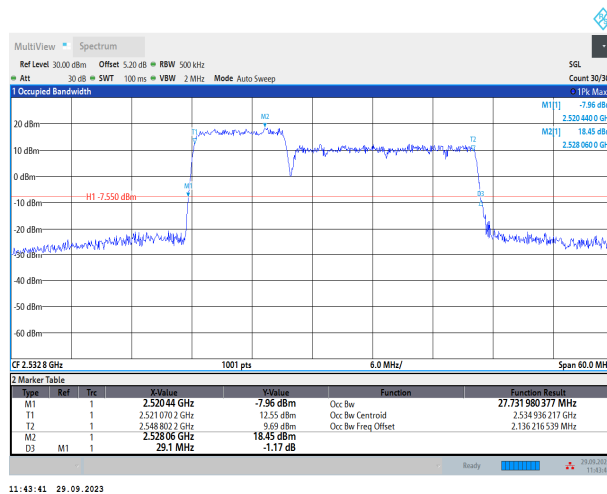
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Test Graphs

7-7-10MHz-20MHz-QPSK-QPSK-21006-21150-50RB#0-100RB#0



7-7-10MHz-20MHz-16QAM-16QAM-21006-21150-50RB#0-100RB#0

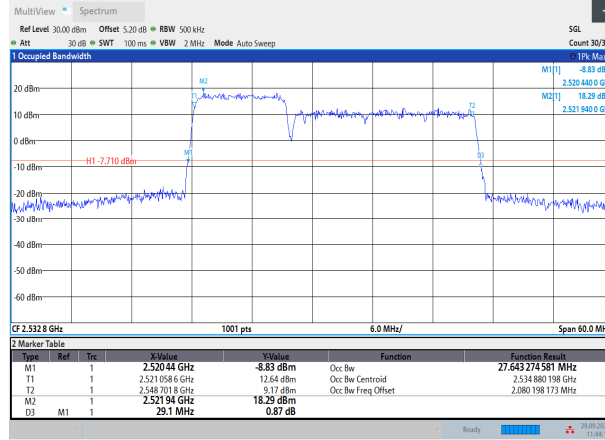


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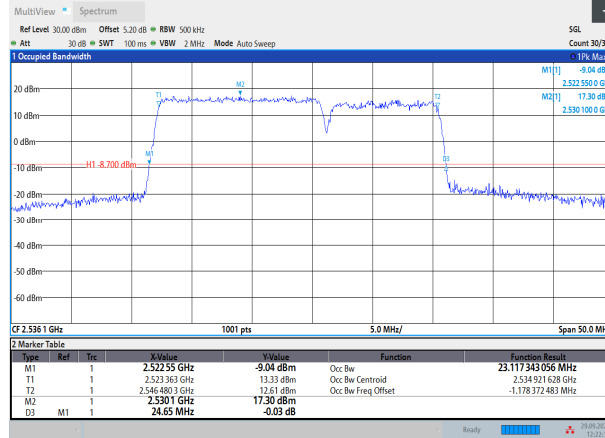
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7-7-10MHz-20MHz-64QAM-64QAM-21006-21150-50RB#0-100RB#0



11:44:13 29.09.2023

7-7-15MHz-10MHz-QPSK-QPSK-21051-21171-75RB#0-50RB#0



12:22:14 29.09.2023

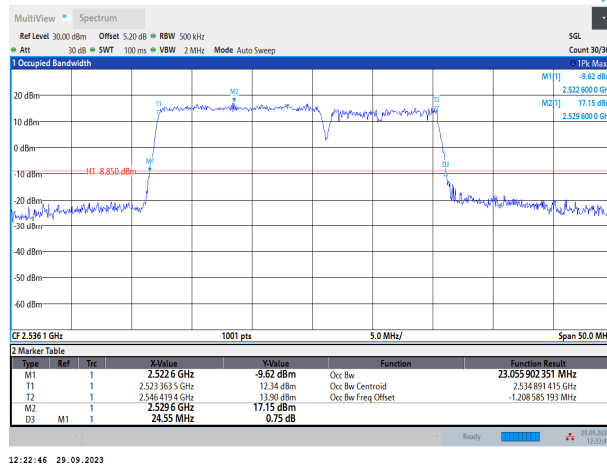


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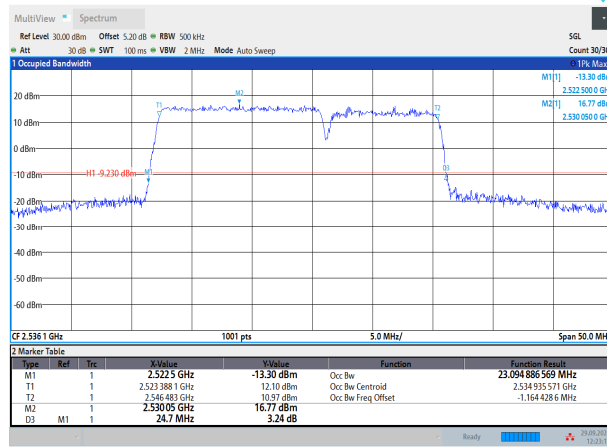
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7-7-15MHz-10MHz-16QAM-16QAM-21051-21171-75RB#0-50RB#0



12:22:46 29.09.2023

7-7-15MHz-10MHz-64QAM-64QAM-21051-21171-75RB#0-50RB#0



12:23:18 29.09.2023

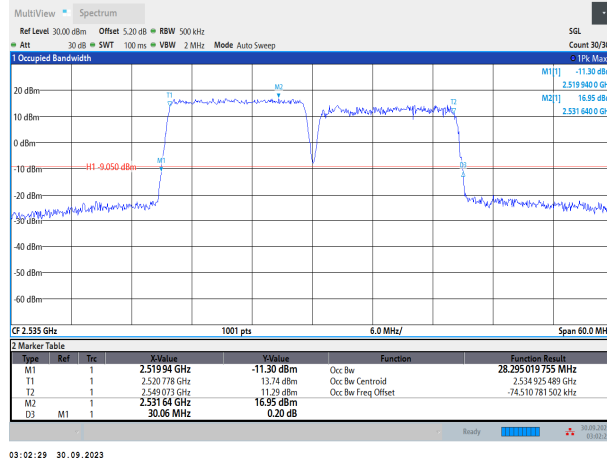


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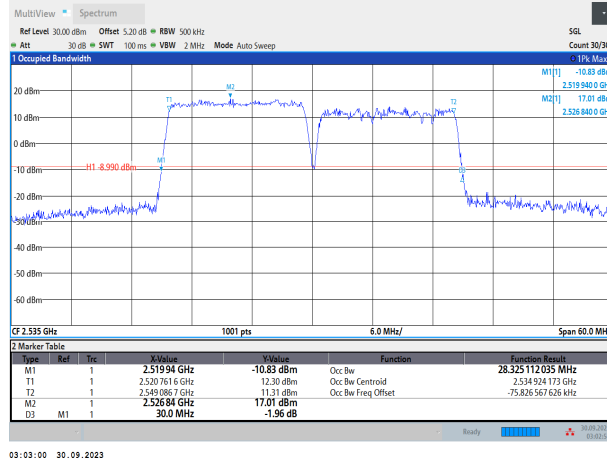
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7-7-15MHz-15MHz-QPSK-QPSK-21025-21175-75RB#0-75RB#0



7-7-15MHz-15MHz-16QAM-16QAM-21025-21175-75RB#0-75RB#0

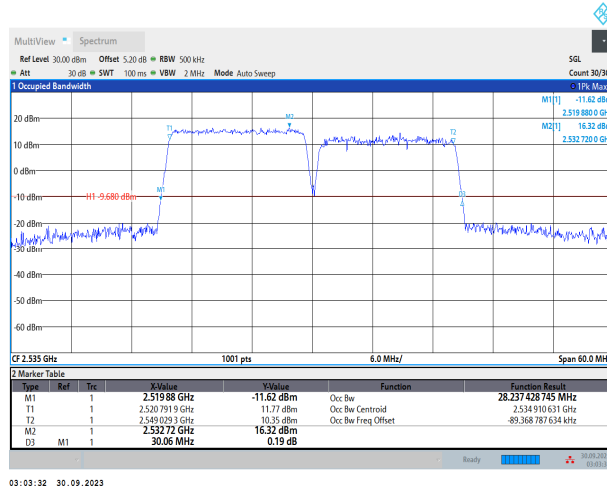


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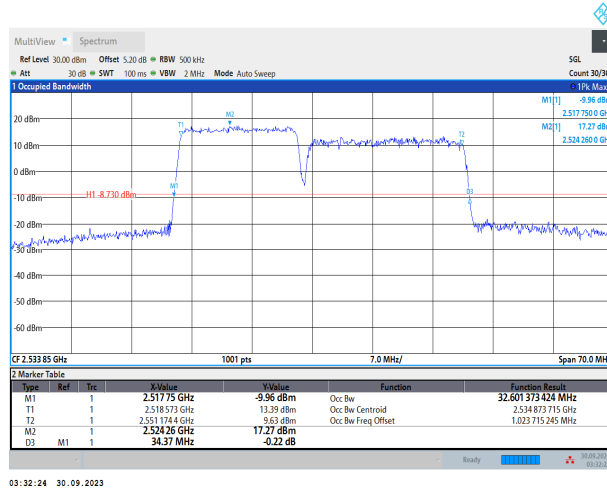
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7-7-15MHz-15MHz-64QAM-64QAM-21025-21175-75RB#0-75RB#0



7-7-15MHz-20MHz-QPSK-QPSK-21003-21174-75RB#0-100RB#0

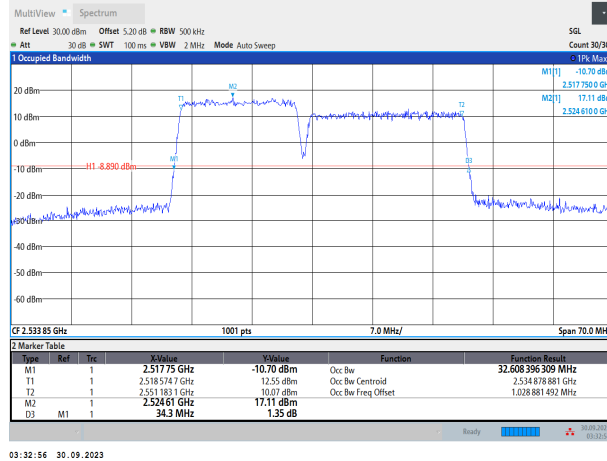


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7-7-15MHz-20MHz-16QAM-16QAM-21003-21174-75RB#0-100RB#0



7-7-15MHz-20MHz-64QAM-64QAM-21003-21174-75RB#0-100RB#0

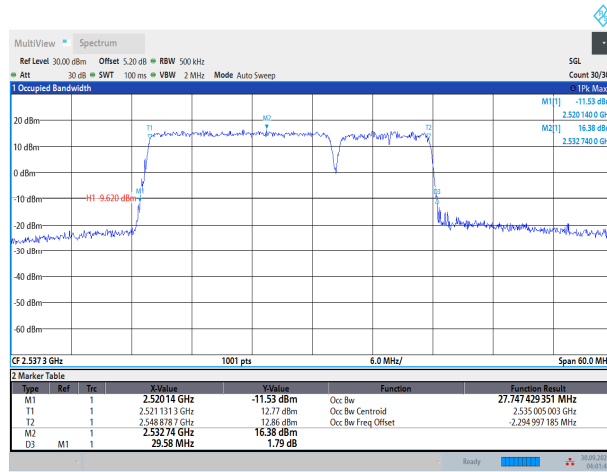


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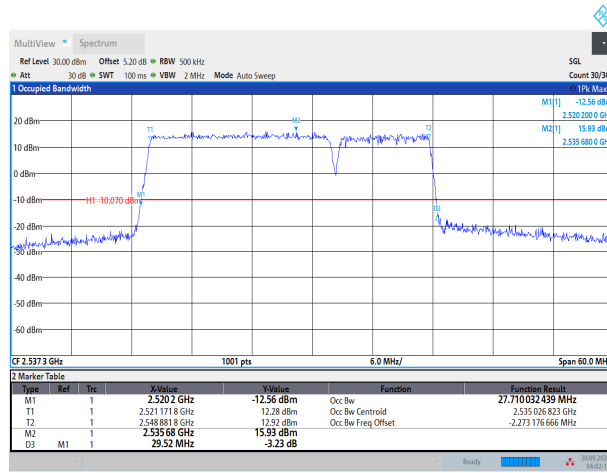
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7-7-20MHz-10MHz-QPSK-QPSK-21051-21195-100RB#0-50RB#0



04:01:43 30.09.2023

7-7-20MHz-10MHz-16QAM-16QAM-21051-21195-100RB#0-50RB#0



04:02:15 30.09.2023

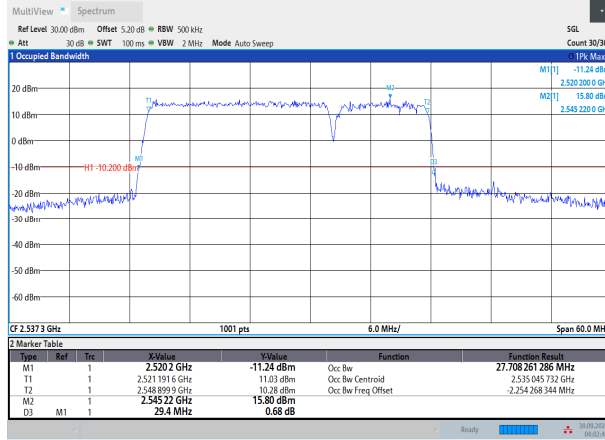


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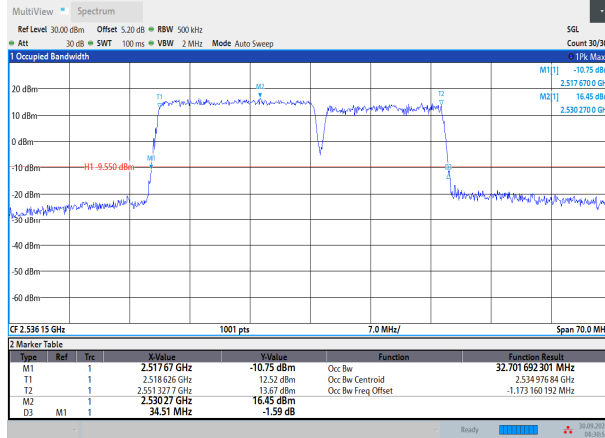
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7-7-20MHz-10MHz-64QAM-64QAM-21051-21195-100RB#0-50RB#0



04:02:47 30.09.2023

7-7-20MHz-15MHz-QPSK-QPSK-21026-21197-100RB#0-75RB#0



04:30:55 30.09.2023

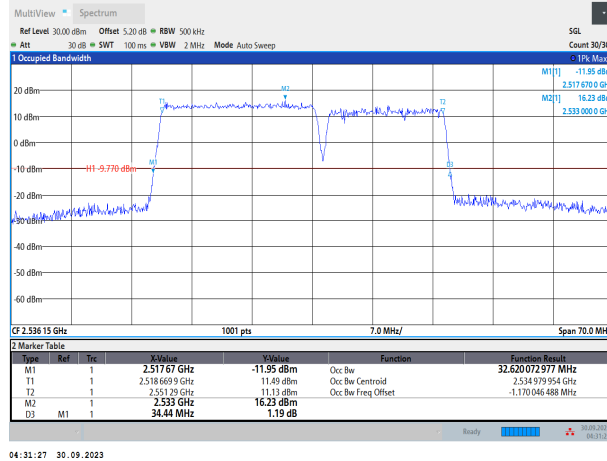


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7-7-20MHz-15MHz-16QAM-16QAM-21026-21197-100RB#0-75RB#0



7-7-20MHz-15MHz-64QAM-64QAM-21026-21197-100RB#0-75RB#0

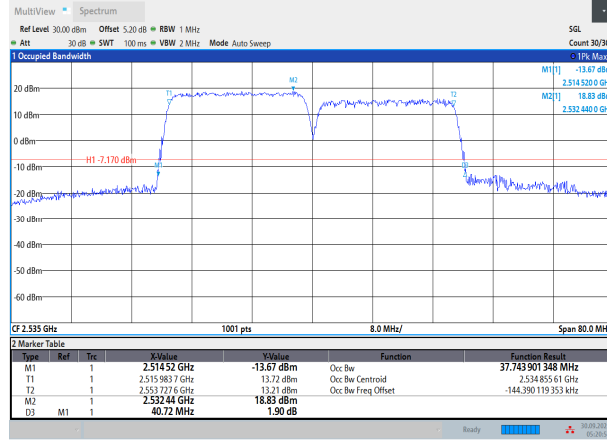


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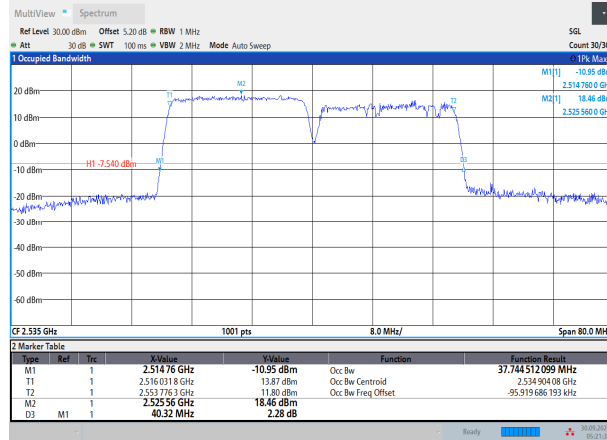
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7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-100RB#0-100RB#0



05:20:59 30.09.2023

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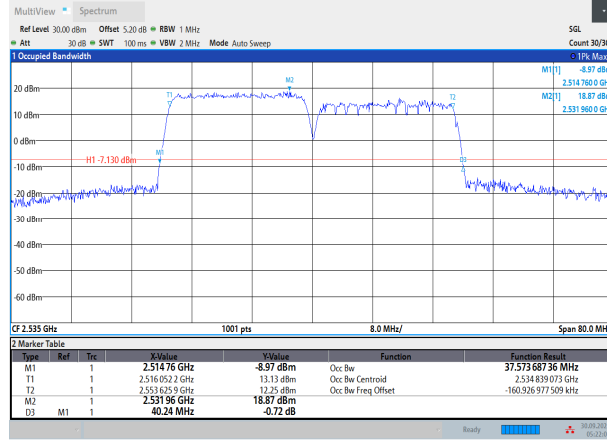


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7-7-20MHz-20MHz-64QAM-64QAM-21001-21199-100RB#0-100RB#0



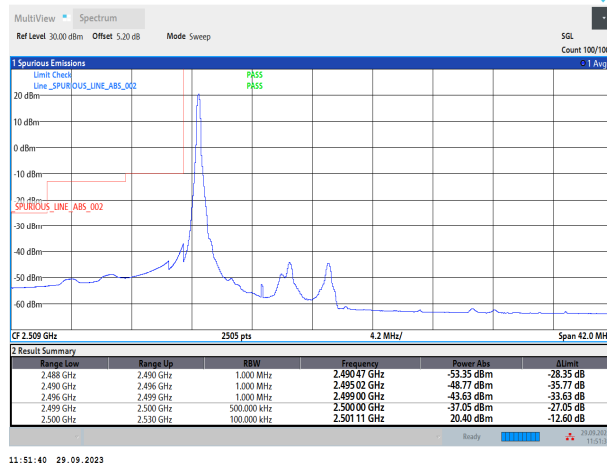
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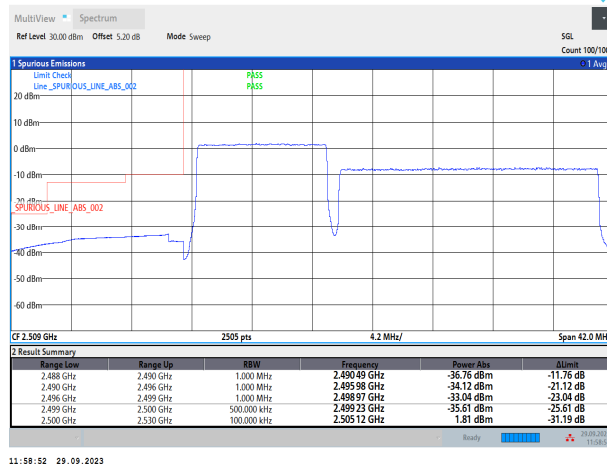
Band Edge

Test Graphs

7-7-10MHz-20MHz-QPSK-QPSK-20805-20949-1RB#0-0RB#0



7-7-10MHz-20MHz-QPSK-QPSK-20805-20949-50RB#0-100RB#0

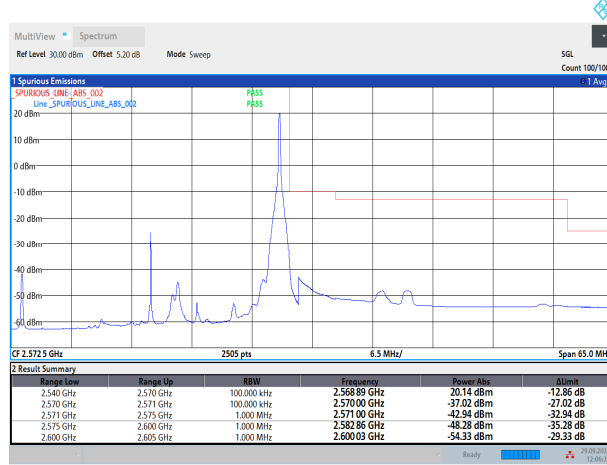


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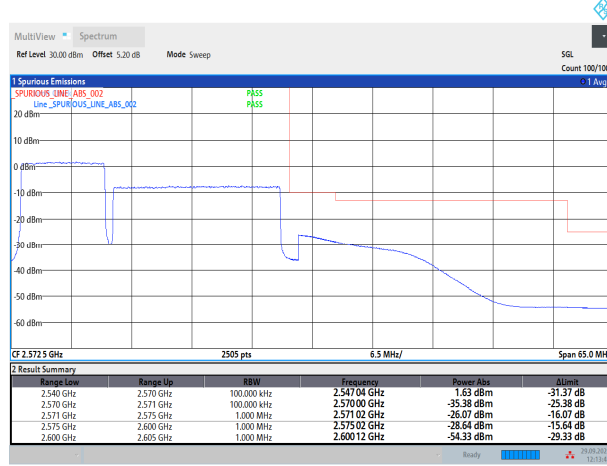
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7-7-10MHz-20MHz-QPSK-QPSK-21206-21350-0RB#0-1RB#99



12:04:29 29.09.2023

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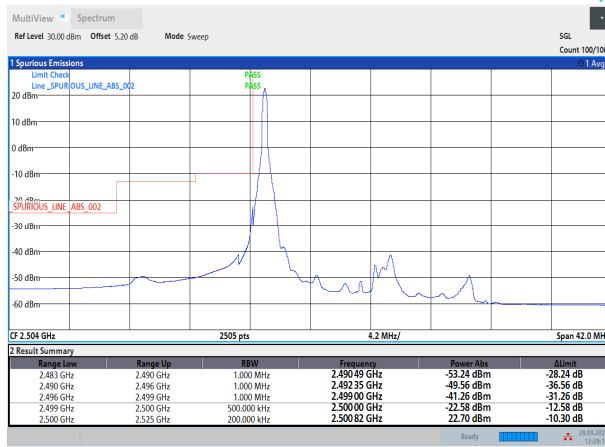
12:13:41 29.09.2023



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7-7-15MHz-10MHz-QPSK-QPSK-20825-20945-1RB#0-0RB#0



12:38:13 29.09.2023

7-7-15MHz-10MHz-QPSK-QPSK-20825-20945-75RB#0-50RB#0



12:32:55 29.09.2023

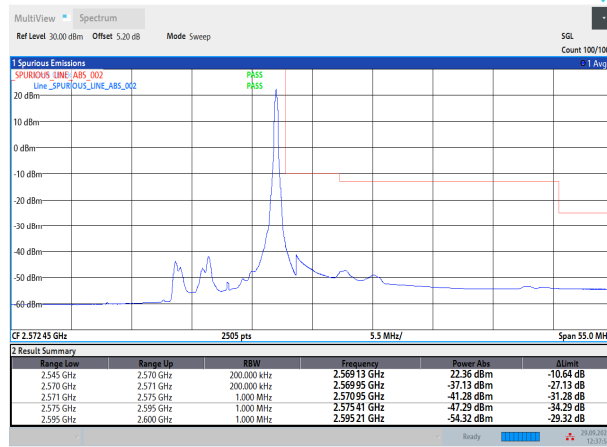


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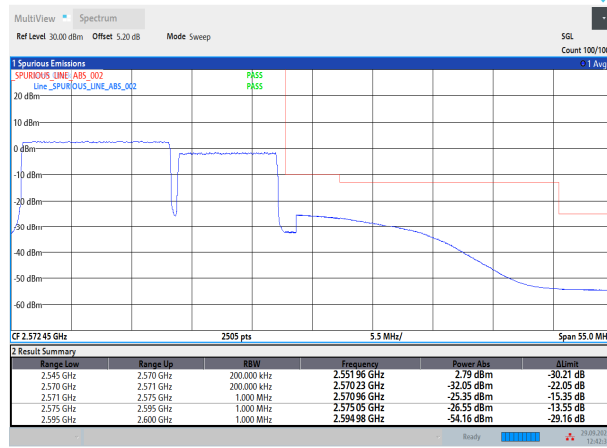
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7-7-15MHz-10MHz-QPSK-QPSK-21277-21397-0RB#0-1RB#49



12:37:52 29.09.2023

7-7-15MHz-10MHz-QPSK-QPSK-21277-21397-75RB#0-50RB#0



12:42:34 29.09.2023

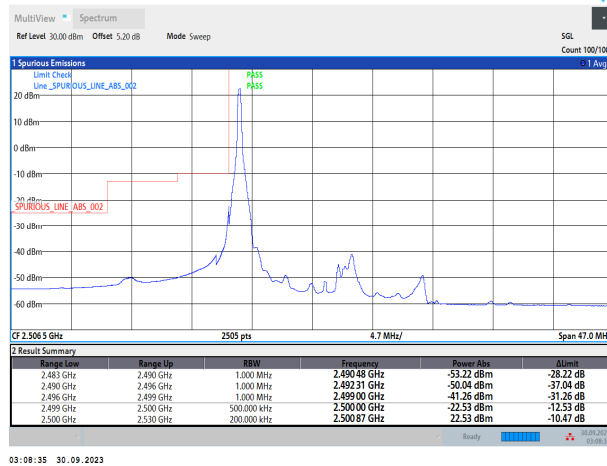


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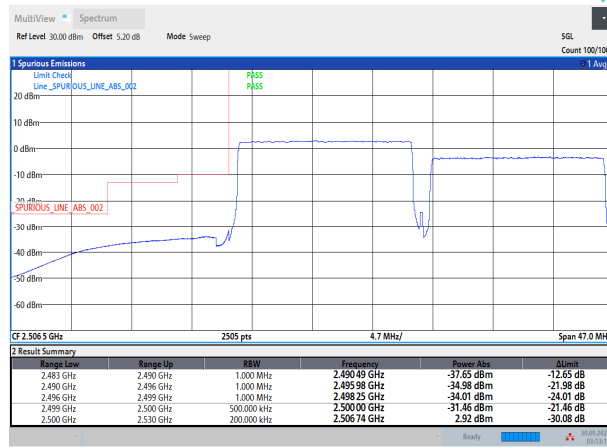
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7-7-15MHz-15MHz-QPSK-QPSK-20825-20975-1RB#0-0RB#0



03:08:35 30.09.2023

7-7-15MHz-15MHz-QPSK-QPSK-20825-20975-75RB#0-75RB#0



03:13:17 30.09.2023

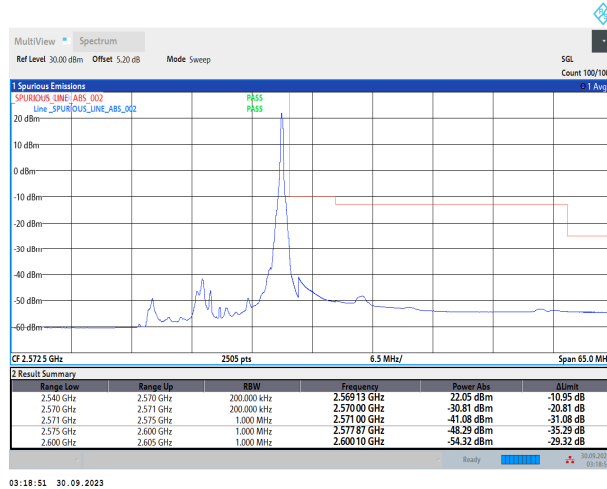


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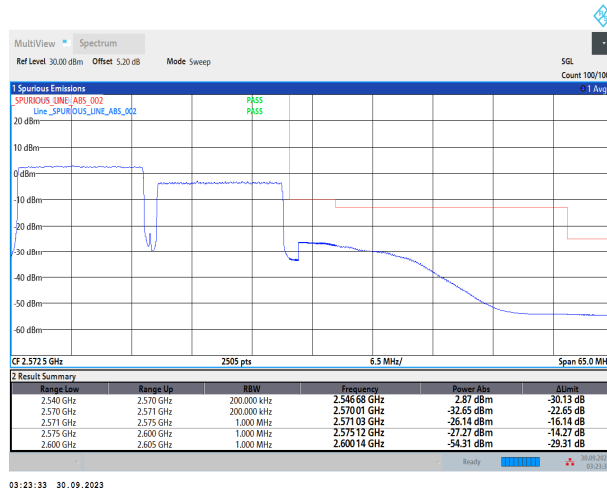
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7-7-15MHz-15MHz-QPSK-QPSK-21225-21375-0RB#0-1RB#74



7-7-15MHz-15MHz-QPSK-QPSK-21225-21375-75RB#0-75RB#0

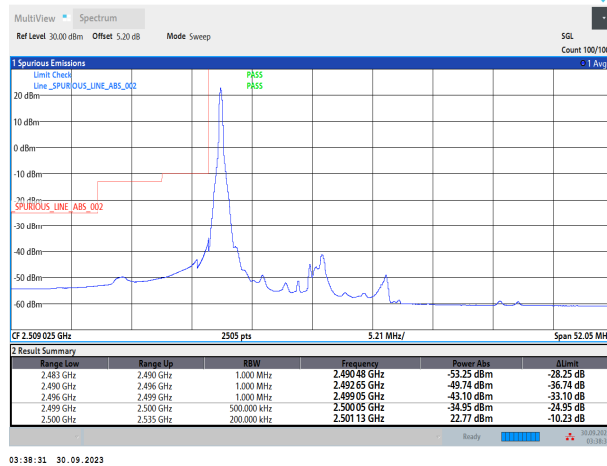


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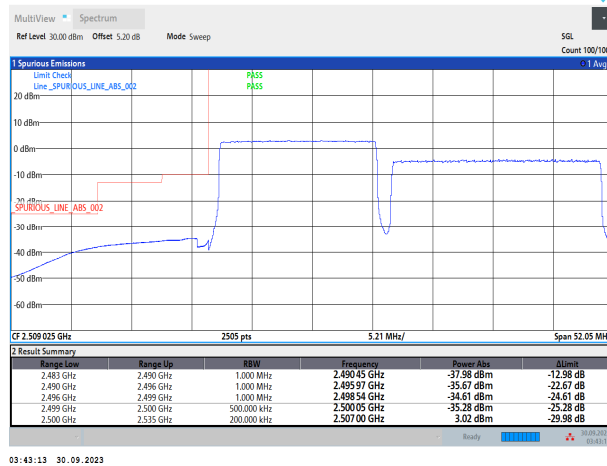
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7-7-15MHz-20MHz-QPSK-QPSK-20828-20999-1RB#0-0RB#0



7-7-15MHz-20MHz-QPSK-QPSK-20828-20999-75RB#0-100RB#0

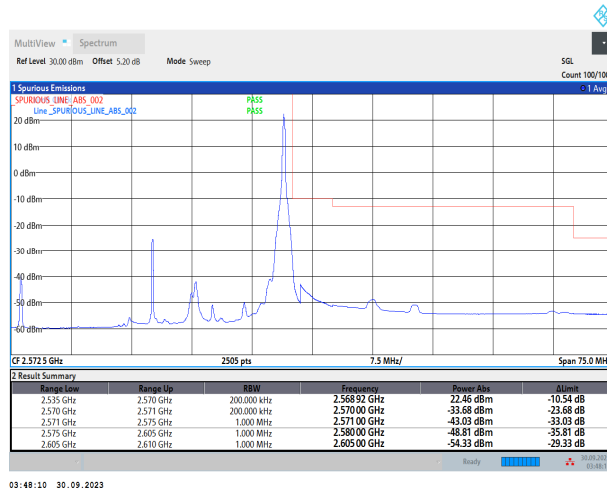


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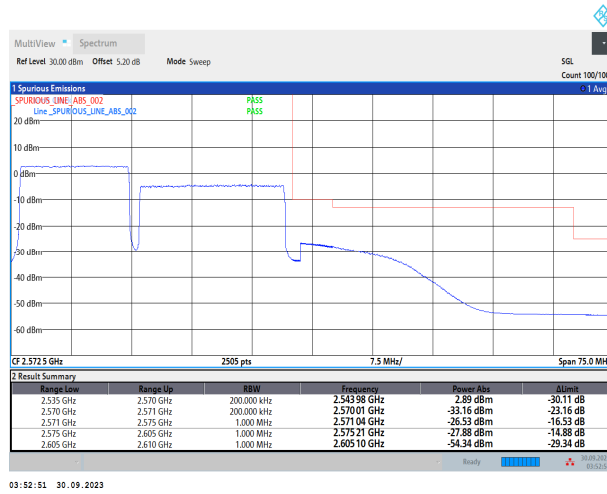
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7-7-15MHz-20MHz-QPSK-QPSK-21179-21350-0RB#0-1RB#99



7-7-15MHz-20MHz-QPSK-QPSK-21179-21350-75RB#0-100RB#0

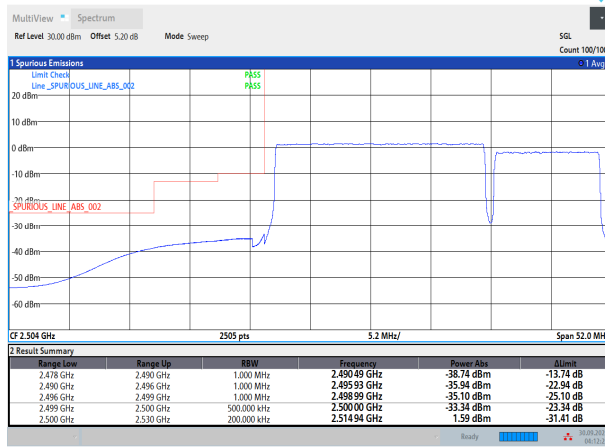


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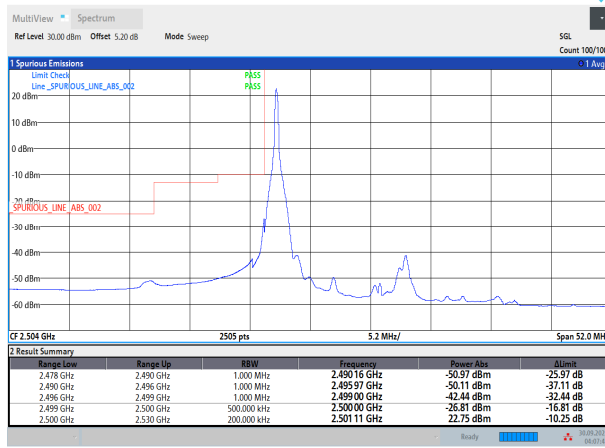
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7-7-20MHz-10MHz-QPSK-QPSK-20850-20994-100RB#0-50RB#0



04:12:24 30.09.2023

7-7-20MHz-10MHz-QPSK-QPSK-20850-20994-1RB#0-0RB#0



04:07:42 30.09.2023

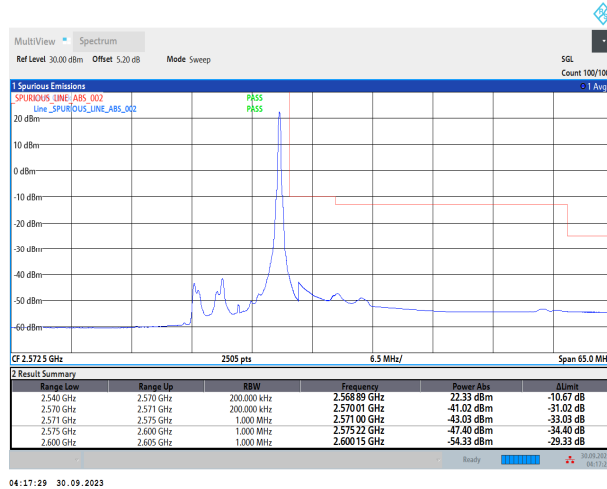


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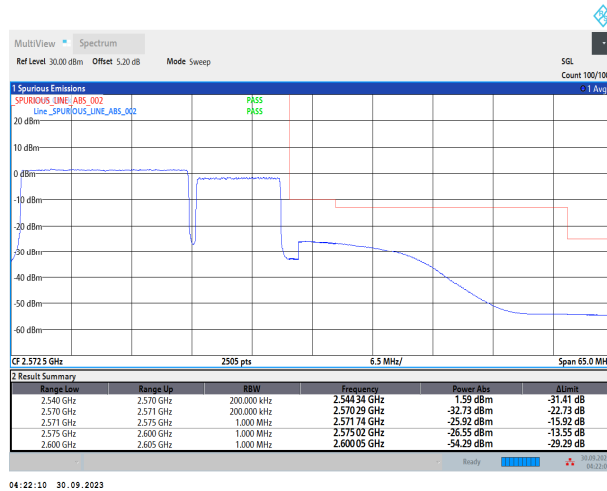
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7-7-20MHz-10MHz-QPSK-QPSK-21251-21395-0RB#0-1RB#49



7-7-20MHz-10MHz-QPSK-QPSK-21251-21395-100RB#0-50RB#0

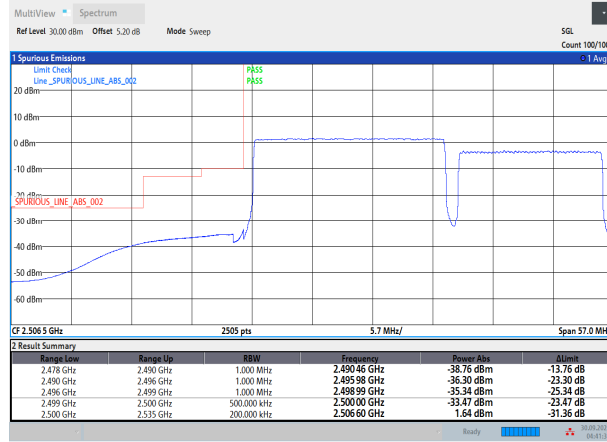


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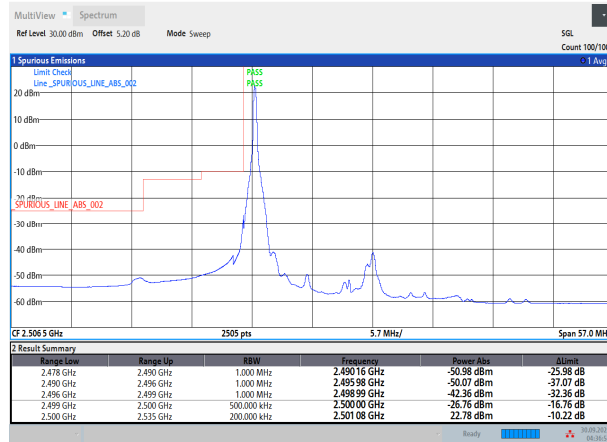
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7-7-20MHz-15MHz-QPSK-QPSK-20850-21021-100RB#0-75RB#0



04:41:36 30.09.2023

7-7-20MHz-15MHz-QPSK-QPSK-20850-21021-1RB#0-0RB#0



04:36:54 30.09.2023

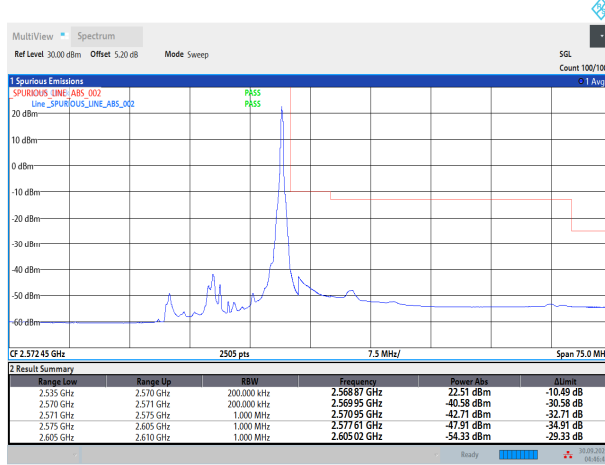


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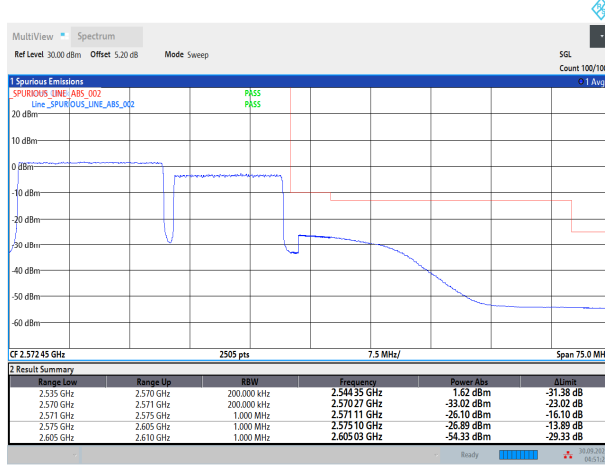
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7-7-20MHz-15MHz-QPSK-QPSK-21201-21372-0RB#0-1RB#74



04:46:41 30.09.2023

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04:51:23 30.09.2023

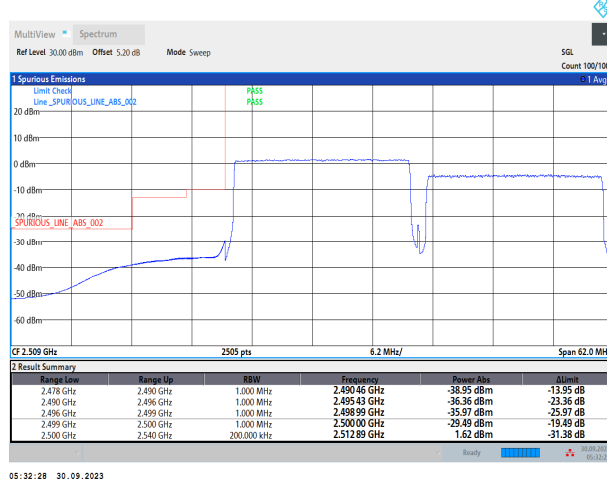


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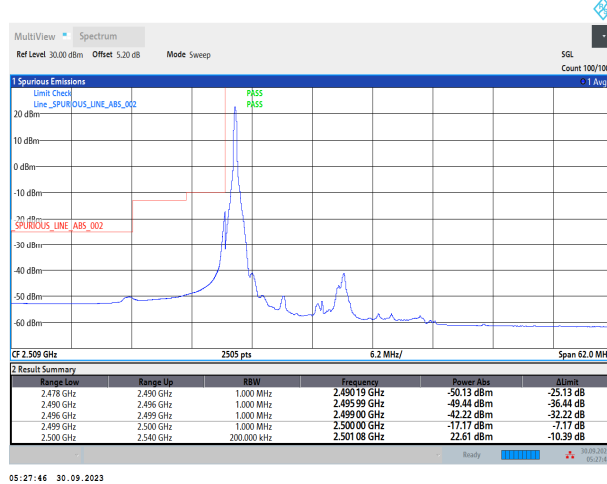
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7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-100RB#0-100RB#0



7-7-20MHz-20MHz-QPSK-QPSK-20850-21048-1RB#0-0RB#0

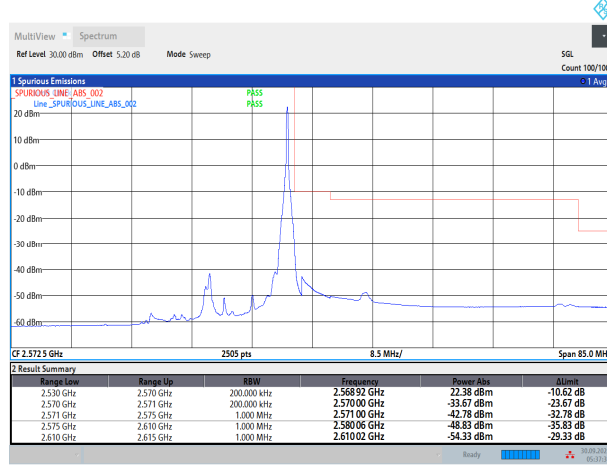


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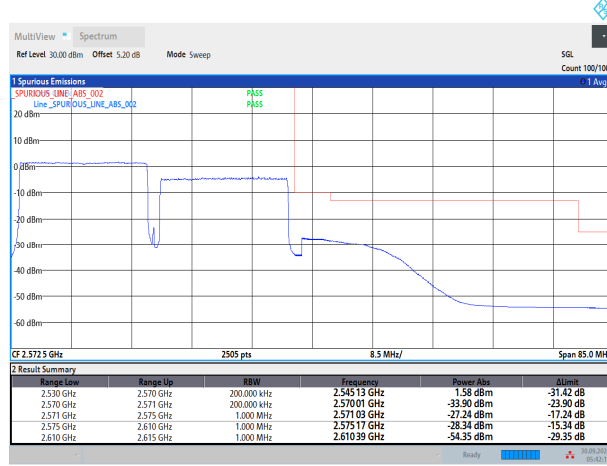
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7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-0RB#0-1RB#99



05:37:37 30.09.2023

7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-100RB#0-100RB#0



05:42:19 30.09.2023



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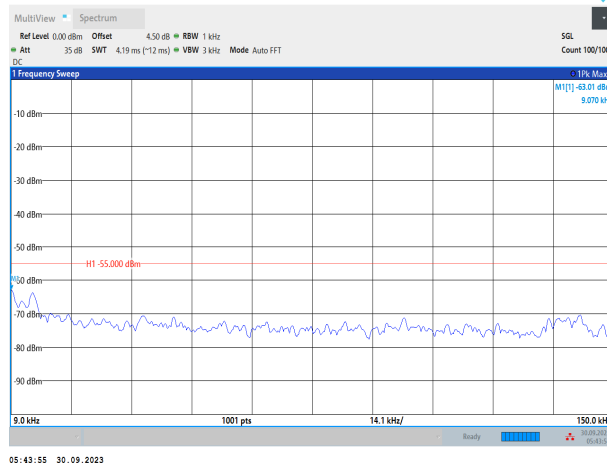
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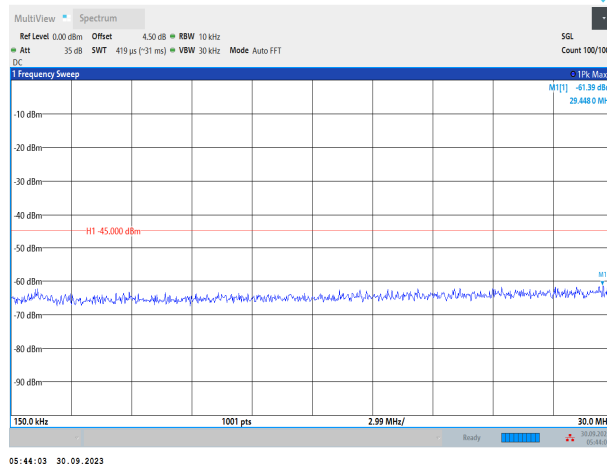
Conducted Spurious Emission

Test Graphs

7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-0.009~0.15MHz



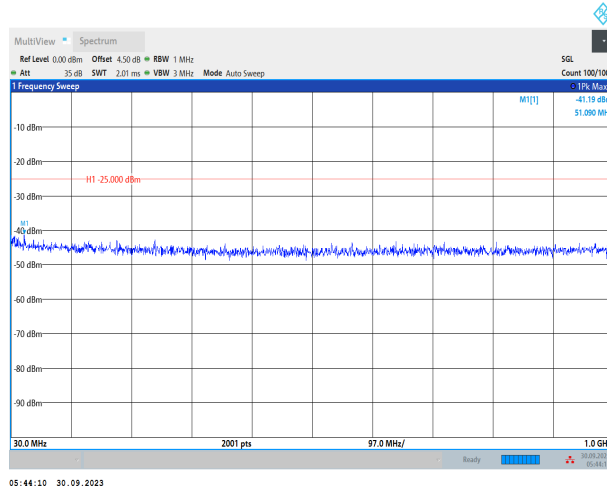
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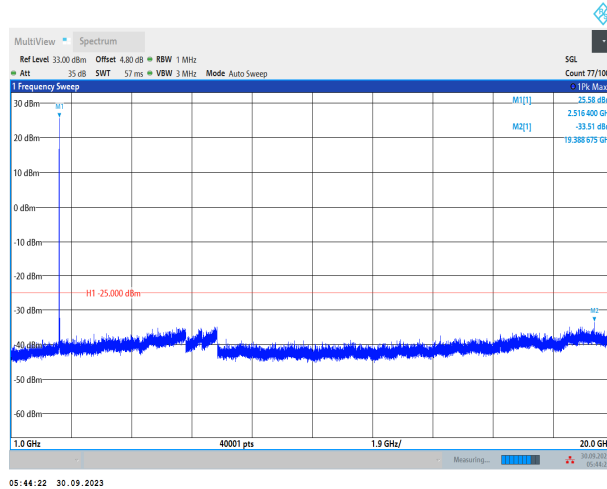
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7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-30~1000MHz



7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-1000~20000MHz

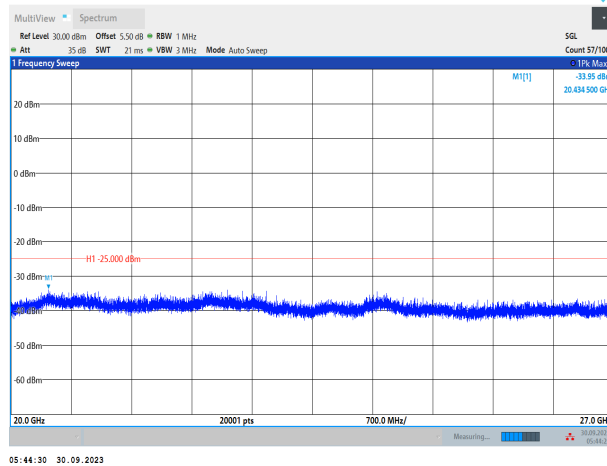


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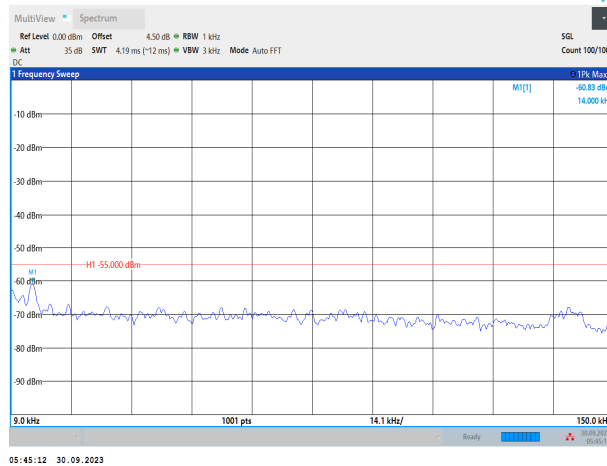
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7-7-20MHz-20MHz-QPSK-QPSK-21001-21199-1RB#0-0RB#0-20000~27000MHz



7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-0.009~0.15MHz

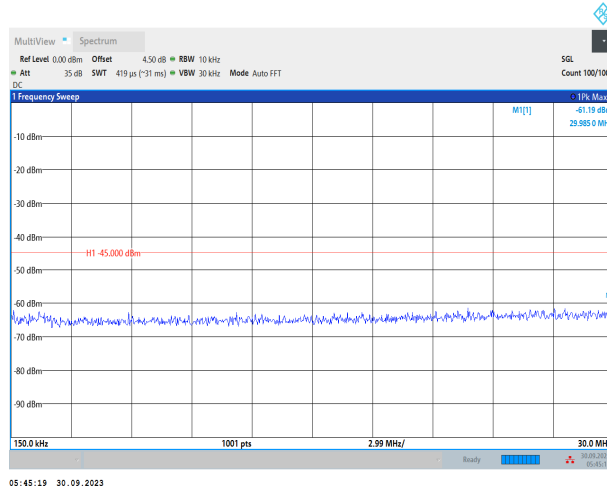


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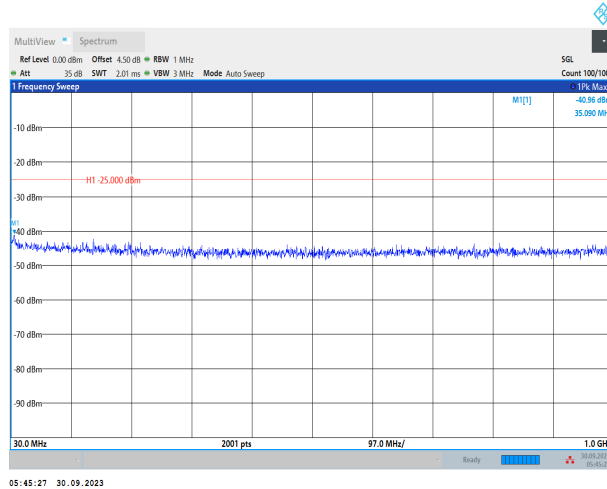
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7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-0.15~30MHz



7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-30~1000MHz

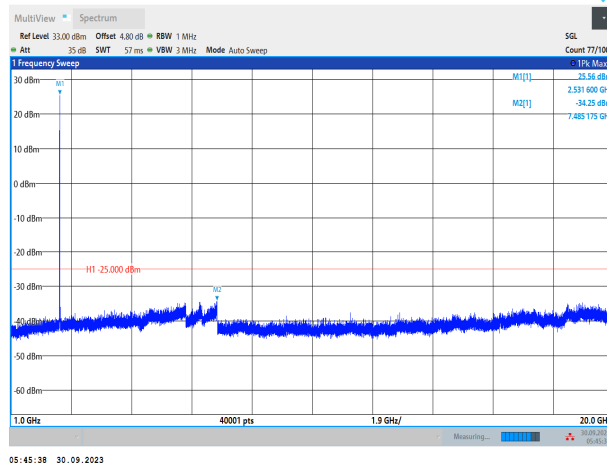


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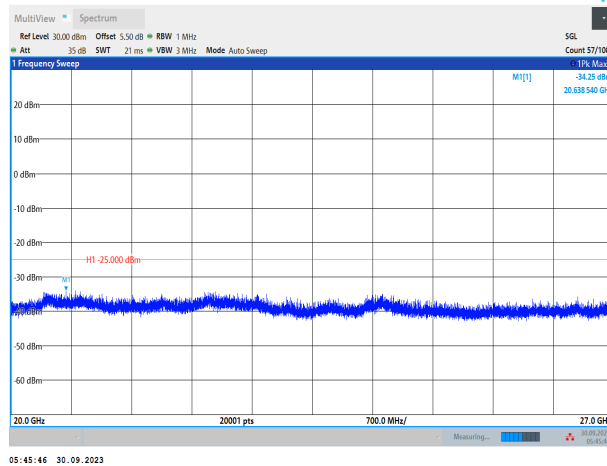
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7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-1000~20000MHz



7-7-20MHz-20MHz-QPSK-QPSK-21152-21350-1RB#0-0RB#0-20000~27000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band7CA_ TM1

Test Channel = Low

| Final Data List | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 5002.1800 | 39.36 | -45.63 | 31.41 | -70.13 | -25.00 | 45.13 | Horizontal |
| 2 | 7503.2700 | 38.10 | -43.13 | 36.60 | -63.69 | -25.00 | 38.69 | Horizontal |
| 3 | 10004.3600 | 30.95 | -39.23 | 38.20 | -65.34 | -25.00 | 40.34 | Horizontal |
| 4 | 12505.4500 | 24.62 | -36.99 | 38.95 | -68.68 | -25.00 | 43.68 | Horizontal |
| 5 | 15006.5400 | 24.05 | -34.65 | 41.29 | -64.58 | -25.00 | 39.58 | Horizontal |
| 6 | 17507.6300 | 25.06 | -34.95 | 44.59 | -60.56 | -25.00 | 35.56 | Horizontal |

| Final Data List | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 5002.1800 | 40.49 | -45.63 | 31.41 | -69.00 | -25.00 | 44.00 | Vertical |
| 2 | 7503.2700 | 37.71 | -43.13 | 36.60 | -64.08 | -25.00 | 39.08 | Vertical |
| 3 | 10004.3600 | 31.08 | -39.23 | 38.20 | -65.21 | -25.00 | 40.21 | Vertical |
| 4 | 12505.4500 | 24.61 | -36.99 | 38.95 | -68.69 | -25.00 | 43.69 | Vertical |
| 5 | 15006.5400 | 22.96 | -34.65 | 41.29 | -65.67 | -25.00 | 40.67 | Vertical |
| 6 | 17507.6300 | 25.17 | -34.95 | 44.59 | -60.45 | -25.00 | 35.45 | Vertical |



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Test Band = LTE Band7CA_ TM1

Test Channel = Mid

| Final Data List | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 5032.3800 | 40.71 | -45.55 | 31.48 | -68.62 | -25.00 | 43.62 | Horizontal |
| 2 | 7548.2700 | 37.41 | -43.04 | 36.62 | -64.27 | -25.00 | 39.27 | Horizontal |
| 3 | 10064.7600 | 30.91 | -39.16 | 38.23 | -65.28 | -25.00 | 40.28 | Horizontal |
| 4 | 12580.9500 | 25.03 | -37.49 | 38.97 | -68.75 | -25.00 | 43.75 | Horizontal |
| 5 | 15097.1400 | 23.51 | -34.94 | 41.10 | -65.60 | -25.00 | 40.60 | Horizontal |
| 6 | 17613.3300 | 24.12 | -33.34 | 45.06 | -59.42 | -25.00 | 34.42 | Horizontal |

| Final Data List | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 5032.3800 | 39.79 | -45.55 | 31.48 | -69.54 | -25.00 | 44.54 | Vertical |
| 2 | 7548.2700 | 37.42 | -43.04 | 36.62 | -64.26 | -25.00 | 39.26 | Vertical |
| 3 | 10064.7600 | 30.54 | -39.16 | 38.23 | -65.65 | -25.00 | 40.65 | Vertical |
| 4 | 12580.9500 | 25.63 | -37.49 | 38.97 | -68.15 | -25.00 | 43.15 | Vertical |
| 5 | 15097.1400 | 23.04 | -34.94 | 41.10 | -66.07 | -25.00 | 41.07 | Vertical |
| 6 | 17613.3300 | 25.15 | -33.34 | 45.06 | -58.39 | -25.00 | 33.39 | Vertical |



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Test Band = LTE Band7CA_ TM1

Test Channel = High

| Final Data List | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 5062.5800 | 40.49 | -45.47 | 31.55 | -68.69 | -25.00 | 43.69 | Horizontal |
| 2 | 7593.8700 | 37.67 | -42.94 | 36.64 | -63.90 | -25.00 | 38.90 | Horizontal |
| 3 | 10125.1600 | 30.66 | -39.22 | 38.26 | -65.55 | -25.00 | 40.55 | Horizontal |
| 4 | 12656.4500 | 25.86 | -37.09 | 39.00 | -67.49 | -25.00 | 42.49 | Horizontal |
| 5 | 15187.7400 | 23.62 | -34.04 | 40.91 | -64.78 | -25.00 | 39.78 | Horizontal |
| 6 | 17719.0300 | 26.20 | -34.15 | 45.54 | -57.67 | -25.00 | 32.67 | Horizontal |

| Final Data List | | | | | | | | |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO. | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1 | 5062.5800 | 40.79 | -45.47 | 31.55 | -68.39 | -25.00 | 43.39 | Vertical |
| 2 | 7593.8700 | 37.42 | -42.94 | 36.64 | -64.15 | -25.00 | 39.15 | Vertical |
| 3 | 10125.1600 | 30.32 | -39.22 | 38.26 | -65.89 | -25.00 | 40.89 | Vertical |
| 4 | 12656.4500 | 26.42 | -37.09 | 39.00 | -66.93 | -25.00 | 41.93 | Vertical |
| 5 | 15187.7400 | 23.97 | -34.04 | 40.91 | -64.43 | -25.00 | 39.43 | Vertical |
| 6 | 17719.0300 | 25.48 | -34.15 | 45.54 | -58.39 | -25.00 | 33.39 | 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) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|------|-------------|------------|-------------|-----------------|---------------|------------------|----------------|-----------------|---------|
| 7-7 | 20MHz-20MHz | QPSK-QPSK | 21001-21199 | 100RB#0-100RB#0 | VH | NT | 59.10 | 0.023405 | PASS |
| 7-7 | 20MHz-20MHz | QPSK-QPSK | 21001-21199 | 100RB#0-100RB#0 | VL | NT | 55.50 | 0.021979 | PASS |
| 7-7 | 20MHz-20MHz | QPSK-QPSK | 21001-21199 | 100RB#0-100RB#0 | VN | NT | 56.30 | 0.022296 | PASS |

| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|------|-------------|------------|-------------|-----------------|---------------|------------------|----------------|-----------------|---------|
| 7-7 | 20MHz-20MHz | QPSK-QPSK | 21001-21199 | 100RB#0-100RB#0 | NV | -30 | 61.20 | 0.024237 | PASS |
| 7-7 | 20MHz-20MHz | QPSK-QPSK | 21001-21199 | 100RB#0-100RB#0 | NV | -20 | 61.60 | 0.024395 | PASS |
| 7-7 | 20MHz-20MHz | QPSK-QPSK | 21001-21199 | 100RB#0-100RB#0 | NV | -10 | 60.80 | 0.024078 | PASS |
| 7-7 | 20MHz-20MHz | QPSK-QPSK | 21001-21199 | 100RB#0-100RB#0 | NV | 0 | 60.10 | 0.023801 | PASS |
| 7-7 | 20MHz-20MHz | QPSK-QPSK | 21001-21199 | 100RB#0-100RB#0 | NV | 10 | 58.90 | 0.023326 | PASS |
| 7-7 | 20MHz-20MHz | QPSK-QPSK | 21001-21199 | 100RB#0-100RB#0 | NV | 20 | 60.20 | 0.023841 | PASS |
| 7-7 | 20MHz-20MHz | QPSK-QPSK | 21001-21199 | 100RB#0-100RB#0 | NV | 30 | 58.50 | 0.023167 | PASS |
| 7-7 | 20MHz-20MHz | QPSK-QPSK | 21001-21199 | 100RB#0-100RB#0 | NV | 40 | 55.30 | 0.021900 | PASS |
| 7-7 | 20MHz-20MHz | QPSK-QPSK | 21001-21199 | 100RB#0-100RB#0 | NV | 50 | 52.60 | 0.062800 | PASS |

---End of Attachment---



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