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# Appendix B.4

## LTE Band 7



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## Effective (Isotropic) Radiated Power Output Data

### Test Result ANT7

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result (dBm) | EIRP (dBm) | Limit (dBm) | Verdict |
|-------|-----------|------------|---------|------------------|--------------|------------|-------------|---------|
| Band7 | 5MHz      | QPSK       | 20775   | 1RB#0            | 23.68        | 26.38      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 20775   | 1RB#12           | 23.72        | 26.42      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 20775   | 1RB#24           | 23.68        | 26.38      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 20775   | 25RB#0           | 22.79        | 25.49      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 1RB#0            | 23.56        | 26.26      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 1RB#12           | 23.64        | 26.34      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 1RB#24           | 23.65        | 26.35      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 25RB#0           | 22.78        | 25.48      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 1RB#0            | 23.48        | 26.18      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 1RB#12           | 23.51        | 26.21      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 1RB#24           | 23.47        | 26.17      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 25RB#0           | 22.62        | 25.32      | 33.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 1RB#0            | 22.72        | 25.42      | 33.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 1RB#12           | 22.88        | 25.58      | 33.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 1RB#24           | 22.75        | 25.45      | 33.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 25RB#0           | 21.74        | 24.44      | 33.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21100   | 1RB#0            | 22.84        | 25.54      | 33.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21100   | 1RB#12           | 22.86        | 25.56      | 33.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21100   | 1RB#24           | 22.72        | 25.42      | 33.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21100   | 25RB#0           | 21.78        | 24.48      | 33.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21425   | 1RB#0            | 22.84        | 25.54      | 33.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21425   | 1RB#12           | 22.56        | 25.26      | 33.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21425   | 1RB#24           | 22.81        | 25.51      | 33.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21425   | 25RB#0           | 21.54        | 24.24      | 33.00       | PASS    |
| Band7 | 5MHz      | 64QAM      | 20775   | 1RB#0            | 21.73        | 24.43      | 33.00       | PASS    |
| Band7 | 5MHz      | 64QAM      | 20775   | 1RB#12           | 21.81        | 24.51      | 33.00       | PASS    |
| Band7 | 5MHz      | 64QAM      | 20775   | 1RB#24           | 21.78        | 24.48      | 33.00       | PASS    |



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|-------|-------|--------|-------|--------|-------|-------|-------|------|
| Band7 | 5MHz  | 64QAM  | 20775 | 25RB#0 | 20.77 | 23.47 | 33.00 | PASS |
| Band7 | 5MHz  | 64QAM  | 21100 | 1RB#0  | 21.98 | 24.68 | 33.00 | PASS |
| Band7 | 5MHz  | 64QAM  | 21100 | 1RB#12 | 21.68 | 24.38 | 33.00 | PASS |
| Band7 | 5MHz  | 64QAM  | 21100 | 1RB#24 | 21.75 | 24.45 | 33.00 | PASS |
| Band7 | 5MHz  | 64QAM  | 21100 | 25RB#0 | 20.78 | 23.48 | 33.00 | PASS |
| Band7 | 5MHz  | 64QAM  | 21425 | 1RB#0  | 21.67 | 24.37 | 33.00 | PASS |
| Band7 | 5MHz  | 64QAM  | 21425 | 1RB#12 | 21.74 | 24.44 | 33.00 | PASS |
| Band7 | 5MHz  | 64QAM  | 21425 | 1RB#24 | 21.73 | 24.43 | 33.00 | PASS |
| Band7 | 5MHz  | 64QAM  | 21425 | 25RB#0 | 20.62 | 23.32 | 33.00 | PASS |
| Band7 | 5MHz  | 256QAM | 20775 | 1RB#0  | 18.65 | 21.35 | 33.00 | PASS |
| Band7 | 5MHz  | 256QAM | 20775 | 1RB#12 | 18.77 | 21.47 | 33.00 | PASS |
| Band7 | 5MHz  | 256QAM | 20775 | 1RB#24 | 18.49 | 21.19 | 33.00 | PASS |
| Band7 | 5MHz  | 256QAM | 20775 | 25RB#0 | 18.70 | 21.4  | 33.00 | PASS |
| Band7 | 5MHz  | 256QAM | 21100 | 1RB#0  | 18.69 | 21.39 | 33.00 | PASS |
| Band7 | 5MHz  | 256QAM | 21100 | 1RB#12 | 18.73 | 21.43 | 33.00 | PASS |
| Band7 | 5MHz  | 256QAM | 21100 | 1RB#24 | 18.71 | 21.41 | 33.00 | PASS |
| Band7 | 5MHz  | 256QAM | 21100 | 25RB#0 | 18.76 | 21.46 | 33.00 | PASS |
| Band7 | 5MHz  | 256QAM | 21425 | 1RB#0  | 18.54 | 21.24 | 33.00 | PASS |
| Band7 | 5MHz  | 256QAM | 21425 | 1RB#12 | 18.61 | 21.31 | 33.00 | PASS |
| Band7 | 5MHz  | 256QAM | 21425 | 1RB#24 | 18.59 | 21.29 | 33.00 | PASS |
| Band7 | 5MHz  | 256QAM | 21425 | 25RB#0 | 18.57 | 21.27 | 33.00 | PASS |
| Band7 | 10MHz | QPSK   | 20800 | 1RB#0  | 23.71 | 26.41 | 33.00 | PASS |
| Band7 | 10MHz | QPSK   | 20800 | 1RB#24 | 23.65 | 26.35 | 33.00 | PASS |
| Band7 | 10MHz | QPSK   | 20800 | 1RB#49 | 23.66 | 26.36 | 33.00 | PASS |
| Band7 | 10MHz | QPSK   | 20800 | 50RB#0 | 22.72 | 25.42 | 33.00 | PASS |
| Band7 | 10MHz | QPSK   | 21100 | 1RB#0  | 23.54 | 26.24 | 33.00 | PASS |
| Band7 | 10MHz | QPSK   | 21100 | 1RB#24 | 23.70 | 26.4  | 33.00 | PASS |
| Band7 | 10MHz | QPSK   | 21100 | 1RB#49 | 23.53 | 26.23 | 33.00 | PASS |
| Band7 | 10MHz | QPSK   | 21100 | 50RB#0 | 22.68 | 25.38 | 33.00 | PASS |
| Band7 | 10MHz | QPSK   | 21400 | 1RB#0  | 23.49 | 26.19 | 33.00 | PASS |
| Band7 | 10MHz | QPSK   | 21400 | 1RB#24 | 23.54 | 26.24 | 33.00 | PASS |
| Band7 | 10MHz | QPSK   | 21400 | 1RB#49 | 23.72 | 26.42 | 33.00 | PASS |



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| Band7 | 10MHz | QPSK   | 21400 | 50RB#0 | 22.59 | 25.29 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM  | 20800 | 1RB#0  | 22.79 | 25.49 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM  | 20800 | 1RB#24 | 22.73 | 25.43 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM  | 20800 | 1RB#49 | 22.82 | 25.52 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM  | 20800 | 50RB#0 | 21.80 | 24.5  | 33.00 | PASS |
| Band7 | 10MHz | 16QAM  | 21100 | 1RB#0  | 22.95 | 25.65 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM  | 21100 | 1RB#24 | 22.93 | 25.63 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM  | 21100 | 1RB#49 | 22.52 | 25.22 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM  | 21100 | 50RB#0 | 21.68 | 24.38 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM  | 21400 | 1RB#0  | 22.79 | 25.49 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM  | 21400 | 1RB#24 | 22.60 | 25.3  | 33.00 | PASS |
| Band7 | 10MHz | 16QAM  | 21400 | 1RB#49 | 22.75 | 25.45 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM  | 21400 | 50RB#0 | 21.61 | 24.31 | 33.00 | PASS |
| Band7 | 10MHz | 64QAM  | 20800 | 1RB#0  | 21.94 | 24.64 | 33.00 | PASS |
| Band7 | 10MHz | 64QAM  | 20800 | 1RB#24 | 21.76 | 24.46 | 33.00 | PASS |
| Band7 | 10MHz | 64QAM  | 20800 | 1RB#49 | 21.79 | 24.49 | 33.00 | PASS |
| Band7 | 10MHz | 64QAM  | 20800 | 50RB#0 | 20.77 | 23.47 | 33.00 | PASS |
| Band7 | 10MHz | 64QAM  | 21100 | 1RB#0  | 21.86 | 24.56 | 33.00 | PASS |
| Band7 | 10MHz | 64QAM  | 21100 | 1RB#24 | 21.90 | 24.6  | 33.00 | PASS |
| Band7 | 10MHz | 64QAM  | 21100 | 1RB#49 | 21.48 | 24.18 | 33.00 | PASS |
| Band7 | 10MHz | 64QAM  | 21100 | 50RB#0 | 20.60 | 23.3  | 33.00 | PASS |
| Band7 | 10MHz | 64QAM  | 21400 | 1RB#0  | 21.75 | 24.45 | 33.00 | PASS |
| Band7 | 10MHz | 64QAM  | 21400 | 1RB#24 | 21.85 | 24.55 | 33.00 | PASS |
| Band7 | 10MHz | 64QAM  | 21400 | 1RB#49 | 21.77 | 24.47 | 33.00 | PASS |
| Band7 | 10MHz | 64QAM  | 21400 | 50RB#0 | 20.58 | 23.28 | 33.00 | PASS |
| Band7 | 10MHz | 256QAM | 20800 | 1RB#0  | 18.82 | 21.52 | 33.00 | PASS |
| Band7 | 10MHz | 256QAM | 20800 | 1RB#24 | 18.74 | 21.44 | 33.00 | PASS |
| Band7 | 10MHz | 256QAM | 20800 | 1RB#49 | 18.84 | 21.54 | 33.00 | PASS |
| Band7 | 10MHz | 256QAM | 20800 | 50RB#0 | 18.80 | 21.5  | 33.00 | PASS |
| Band7 | 10MHz | 256QAM | 21100 | 1RB#0  | 18.76 | 21.46 | 33.00 | PASS |
| Band7 | 10MHz | 256QAM | 21100 | 1RB#24 | 18.80 | 21.5  | 33.00 | PASS |
| Band7 | 10MHz | 256QAM | 21100 | 1RB#49 | 18.83 | 21.53 | 33.00 | PASS |



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| Band7 | 10MHz | 256QAM | 21100 | 50RB#0 | 18.71 | 21.41 | 33.00 | PASS |
| Band7 | 10MHz | 256QAM | 21400 | 1RB#0  | 18.97 | 21.67 | 33.00 | PASS |
| Band7 | 10MHz | 256QAM | 21400 | 1RB#24 | 18.63 | 21.33 | 33.00 | PASS |
| Band7 | 10MHz | 256QAM | 21400 | 1RB#49 | 18.56 | 21.26 | 33.00 | PASS |
| Band7 | 10MHz | 256QAM | 21400 | 50RB#0 | 18.61 | 21.31 | 33.00 | PASS |
| Band7 | 15MHz | QPSK   | 20825 | 1RB#0  | 23.53 | 26.23 | 33.00 | PASS |
| Band7 | 15MHz | QPSK   | 20825 | 1RB#38 | 23.58 | 26.28 | 33.00 | PASS |
| Band7 | 15MHz | QPSK   | 20825 | 1RB#74 | 23.58 | 26.28 | 33.00 | PASS |
| Band7 | 15MHz | QPSK   | 20825 | 75RB#0 | 22.70 | 25.4  | 33.00 | PASS |
| Band7 | 15MHz | QPSK   | 21100 | 1RB#0  | 23.59 | 26.29 | 33.00 | PASS |
| Band7 | 15MHz | QPSK   | 21100 | 1RB#38 | 23.70 | 26.4  | 33.00 | PASS |
| Band7 | 15MHz | QPSK   | 21100 | 1RB#74 | 23.46 | 26.16 | 33.00 | PASS |
| Band7 | 15MHz | QPSK   | 21100 | 75RB#0 | 22.59 | 25.29 | 33.00 | PASS |
| Band7 | 15MHz | QPSK   | 21375 | 1RB#0  | 23.69 | 26.39 | 33.00 | PASS |
| Band7 | 15MHz | QPSK   | 21375 | 1RB#38 | 23.40 | 26.1  | 33.00 | PASS |
| Band7 | 15MHz | QPSK   | 21375 | 1RB#74 | 23.56 | 26.26 | 33.00 | PASS |
| Band7 | 15MHz | QPSK   | 21375 | 75RB#0 | 22.56 | 25.26 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM  | 20825 | 1RB#0  | 22.90 | 25.6  | 33.00 | PASS |
| Band7 | 15MHz | 16QAM  | 20825 | 1RB#38 | 23.02 | 25.72 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM  | 20825 | 1RB#74 | 22.67 | 25.37 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM  | 20825 | 75RB#0 | 21.69 | 24.39 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM  | 21100 | 1RB#0  | 22.81 | 25.51 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM  | 21100 | 1RB#38 | 22.89 | 25.59 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM  | 21100 | 1RB#74 | 22.60 | 25.3  | 33.00 | PASS |
| Band7 | 15MHz | 16QAM  | 21100 | 75RB#0 | 21.63 | 24.33 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM  | 21375 | 1RB#0  | 22.74 | 25.44 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM  | 21375 | 1RB#38 | 22.73 | 25.43 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM  | 21375 | 1RB#74 | 22.65 | 25.35 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM  | 21375 | 75RB#0 | 21.60 | 24.3  | 33.00 | PASS |
| Band7 | 15MHz | 64QAM  | 20825 | 1RB#0  | 21.58 | 24.28 | 33.00 | PASS |
| Band7 | 15MHz | 64QAM  | 20825 | 1RB#38 | 21.94 | 24.64 | 33.00 | PASS |
| Band7 | 15MHz | 64QAM  | 20825 | 1RB#74 | 21.74 | 24.44 | 33.00 | PASS |



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| Band7 | 15MHz | 64QAM  | 20825 | 75RB#0  | 20.75 | 23.45 | 33.00 | PASS |
| Band7 | 15MHz | 64QAM  | 21100 | 1RB#0   | 21.93 | 24.63 | 33.00 | PASS |
| Band7 | 15MHz | 64QAM  | 21100 | 1RB#38  | 21.87 | 24.57 | 33.00 | PASS |
| Band7 | 15MHz | 64QAM  | 21100 | 1RB#74  | 21.67 | 24.37 | 33.00 | PASS |
| Band7 | 15MHz | 64QAM  | 21100 | 75RB#0  | 20.58 | 23.28 | 33.00 | PASS |
| Band7 | 15MHz | 64QAM  | 21375 | 1RB#0   | 21.80 | 24.5  | 33.00 | PASS |
| Band7 | 15MHz | 64QAM  | 21375 | 1RB#38  | 21.74 | 24.44 | 33.00 | PASS |
| Band7 | 15MHz | 64QAM  | 21375 | 1RB#74  | 21.90 | 24.6  | 33.00 | PASS |
| Band7 | 15MHz | 64QAM  | 21375 | 75RB#0  | 20.61 | 23.31 | 33.00 | PASS |
| Band7 | 15MHz | 256QAM | 20825 | 1RB#0   | 18.40 | 21.1  | 33.00 | PASS |
| Band7 | 15MHz | 256QAM | 20825 | 1RB#38  | 18.86 | 21.56 | 33.00 | PASS |
| Band7 | 15MHz | 256QAM | 20825 | 1RB#74  | 18.71 | 21.41 | 33.00 | PASS |
| Band7 | 15MHz | 256QAM | 20825 | 75RB#0  | 18.75 | 21.45 | 33.00 | PASS |
| Band7 | 15MHz | 256QAM | 21100 | 1RB#0   | 18.81 | 21.51 | 33.00 | PASS |
| Band7 | 15MHz | 256QAM | 21100 | 1RB#38  | 18.87 | 21.57 | 33.00 | PASS |
| Band7 | 15MHz | 256QAM | 21100 | 1RB#74  | 18.69 | 21.39 | 33.00 | PASS |
| Band7 | 15MHz | 256QAM | 21100 | 75RB#0  | 18.57 | 21.27 | 33.00 | PASS |
| Band7 | 15MHz | 256QAM | 21375 | 1RB#0   | 18.57 | 21.27 | 33.00 | PASS |
| Band7 | 15MHz | 256QAM | 21375 | 1RB#38  | 18.85 | 21.55 | 33.00 | PASS |
| Band7 | 15MHz | 256QAM | 21375 | 1RB#74  | 18.61 | 21.31 | 33.00 | PASS |
| Band7 | 15MHz | 256QAM | 21375 | 75RB#0  | 18.53 | 21.23 | 33.00 | PASS |
| Band7 | 20MHz | QPSK   | 20850 | 1RB#0   | 23.74 | 26.44 | 33.00 | PASS |
| Band7 | 20MHz | QPSK   | 20850 | 1RB#49  | 23.72 | 26.42 | 33.00 | PASS |
| Band7 | 20MHz | QPSK   | 20850 | 1RB#99  | 23.65 | 26.35 | 33.00 | PASS |
| Band7 | 20MHz | QPSK   | 20850 | 100RB#0 | 22.72 | 25.42 | 33.00 | PASS |
| Band7 | 20MHz | QPSK   | 21100 | 1RB#0   | 23.89 | 26.59 | 33.00 | PASS |
| Band7 | 20MHz | QPSK   | 21100 | 1RB#49  | 23.68 | 26.38 | 33.00 | PASS |
| Band7 | 20MHz | QPSK   | 21100 | 1RB#99  | 23.49 | 26.19 | 33.00 | PASS |
| Band7 | 20MHz | QPSK   | 21100 | 100RB#0 | 22.57 | 25.27 | 33.00 | PASS |
| Band7 | 20MHz | QPSK   | 21350 | 1RB#0   | 23.84 | 26.54 | 33.00 | PASS |
| Band7 | 20MHz | QPSK   | 21350 | 1RB#49  | 23.46 | 26.16 | 33.00 | PASS |
| Band7 | 20MHz | QPSK   | 21350 | 1RB#99  | 23.48 | 26.18 | 33.00 | PASS |



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| Band7 | 20MHz | QPSK   | 21350 | 100RB#0 | 22.58 | 25.28 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM  | 20850 | 1RB#0   | 22.76 | 25.46 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM  | 20850 | 1RB#49  | 22.69 | 25.39 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM  | 20850 | 1RB#99  | 23.10 | 25.8  | 33.00 | PASS |
| Band7 | 20MHz | 16QAM  | 20850 | 100RB#0 | 21.66 | 24.36 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM  | 21100 | 1RB#0   | 22.72 | 25.42 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM  | 21100 | 1RB#49  | 22.75 | 25.45 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM  | 21100 | 1RB#99  | 22.73 | 25.43 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM  | 21100 | 100RB#0 | 21.56 | 24.26 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM  | 21350 | 1RB#0   | 22.57 | 25.27 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM  | 21350 | 1RB#49  | 22.65 | 25.35 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM  | 21350 | 1RB#99  | 22.72 | 25.42 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM  | 21350 | 100RB#0 | 21.58 | 24.28 | 33.00 | PASS |
| Band7 | 20MHz | 64QAM  | 20850 | 1RB#0   | 21.88 | 24.58 | 33.00 | PASS |
| Band7 | 20MHz | 64QAM  | 20850 | 1RB#49  | 21.90 | 24.6  | 33.00 | PASS |
| Band7 | 20MHz | 64QAM  | 20850 | 1RB#99  | 21.98 | 24.68 | 33.00 | PASS |
| Band7 | 20MHz | 64QAM  | 20850 | 100RB#0 | 20.72 | 23.42 | 33.00 | PASS |
| Band7 | 20MHz | 64QAM  | 21100 | 1RB#0   | 21.64 | 24.34 | 33.00 | PASS |
| Band7 | 20MHz | 64QAM  | 21100 | 1RB#49  | 21.73 | 24.43 | 33.00 | PASS |
| Band7 | 20MHz | 64QAM  | 21100 | 1RB#99  | 21.71 | 24.41 | 33.00 | PASS |
| Band7 | 20MHz | 64QAM  | 21100 | 100RB#0 | 20.54 | 23.24 | 33.00 | PASS |
| Band7 | 20MHz | 64QAM  | 21350 | 1RB#0   | 21.56 | 24.26 | 33.00 | PASS |
| Band7 | 20MHz | 64QAM  | 21350 | 1RB#49  | 21.78 | 24.48 | 33.00 | PASS |
| Band7 | 20MHz | 64QAM  | 21350 | 1RB#99  | 21.58 | 24.28 | 33.00 | PASS |
| Band7 | 20MHz | 64QAM  | 21350 | 100RB#0 | 20.54 | 23.24 | 33.00 | PASS |
| Band7 | 20MHz | 256QAM | 20850 | 1RB#0   | 18.56 | 21.26 | 33.00 | PASS |
| Band7 | 20MHz | 256QAM | 20850 | 1RB#49  | 18.67 | 21.37 | 33.00 | PASS |
| Band7 | 20MHz | 256QAM | 20850 | 1RB#99  | 18.78 | 21.48 | 33.00 | PASS |
| Band7 | 20MHz | 256QAM | 20850 | 100RB#0 | 18.71 | 21.41 | 33.00 | PASS |
| Band7 | 20MHz | 256QAM | 21100 | 1RB#0   | 18.49 | 21.19 | 33.00 | PASS |
| Band7 | 20MHz | 256QAM | 21100 | 1RB#49  | 18.69 | 21.39 | 33.00 | PASS |
| Band7 | 20MHz | 256QAM | 21100 | 1RB#99  | 18.67 | 21.37 | 33.00 | PASS |



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| Band7 | 20MHz | 256QAM | 21100 | 100RB#0 | 18.58 | 21.28 | 33.00 | PASS |
| Band7 | 20MHz | 256QAM | 21350 | 1RB#0   | 18.45 | 21.15 | 33.00 | PASS |
| Band7 | 20MHz | 256QAM | 21350 | 1RB#49  | 18.50 | 21.2  | 33.00 | PASS |
| Band7 | 20MHz | 256QAM | 21350 | 1RB#99  | 18.67 | 21.37 | 33.00 | PASS |
| Band7 | 20MHz | 256QAM | 21350 | 100RB#0 | 18.57 | 21.27 | 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 |
|-------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band7 | 5MHz      | QPSK       | 20775   | 1RB#0            | 4.50       | 13        | PASS    |
| Band7 | 5MHz      | QPSK       | 20775   | 25RB#0           | 5.00       | 13        | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 1RB#0            | 4.18       | 13        | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 25RB#0           | 4.72       | 13        | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 1RB#0            | 4.34       | 13        | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 25RB#0           | 4.78       | 13        | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 1RB#0            | 5.22       | 13        | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 25RB#0           | 6.12       | 13        | PASS    |
| Band7 | 5MHz      | 16QAM      | 21100   | 1RB#0            | 4.98       | 13        | PASS    |
| Band7 | 5MHz      | 16QAM      | 21100   | 25RB#0           | 5.82       | 13        | PASS    |
| Band7 | 5MHz      | 16QAM      | 21425   | 1RB#0            | 5.06       | 13        | PASS    |
| Band7 | 5MHz      | 16QAM      | 21425   | 25RB#0           | 5.90       | 13        | PASS    |
| Band7 | 5MHz      | 64QAM      | 20775   | 1RB#0            | 6.30       | 13        | PASS    |
| Band7 | 5MHz      | 64QAM      | 20775   | 25RB#0           | 6.94       | 13        | PASS    |
| Band7 | 5MHz      | 64QAM      | 21100   | 1RB#0            | 5.94       | 13        | PASS    |
| Band7 | 5MHz      | 64QAM      | 21100   | 25RB#0           | 6.70       | 13        | PASS    |
| Band7 | 5MHz      | 64QAM      | 21425   | 1RB#0            | 6.08       | 13        | PASS    |
| Band7 | 5MHz      | 64QAM      | 21425   | 25RB#0           | 6.82       | 13        | PASS    |
| Band7 | 5MHz      | 256QAM     | 20775   | 1RB#0            | 7.30       | 13        | PASS    |
| Band7 | 5MHz      | 256QAM     | 20775   | 25RB#0           | 7.22       | 13        | PASS    |
| Band7 | 5MHz      | 256QAM     | 21100   | 1RB#0            | 7.42       | 13        | PASS    |
| Band7 | 5MHz      | 256QAM     | 21100   | 25RB#0           | 7.06       | 13        | PASS    |
| Band7 | 5MHz      | 256QAM     | 21425   | 1RB#0            | 7.10       | 13        | PASS    |
| Band7 | 5MHz      | 256QAM     | 21425   | 25RB#0           | 7.04       | 13        | PASS    |
| Band7 | 10MHz     | QPSK       | 20800   | 1RB#0            | 4.50       | 13        | PASS    |
| Band7 | 10MHz     | QPSK       | 20800   | 50RB#0           | 4.98       | 13        | PASS    |
| Band7 | 10MHz     | QPSK       | 21100   | 1RB#0            | 4.18       | 13        | PASS    |
| Band7 | 10MHz     | QPSK       | 21100   | 50RB#0           | 4.84       | 13        | PASS    |
| Band7 | 10MHz     | QPSK       | 21400   | 1RB#0            | 4.24       | 13        | PASS    |



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| Band7 | 10MHz | QPSK   | 21400 | 50RB#0 | 4.82 | 13 | PASS |
| Band7 | 10MHz | 16QAM  | 20800 | 1RB#0  | 5.18 | 13 | PASS |
| Band7 | 10MHz | 16QAM  | 20800 | 50RB#0 | 6.04 | 13 | PASS |
| Band7 | 10MHz | 16QAM  | 21100 | 1RB#0  | 4.92 | 13 | PASS |
| Band7 | 10MHz | 16QAM  | 21100 | 50RB#0 | 5.86 | 13 | PASS |
| Band7 | 10MHz | 16QAM  | 21400 | 1RB#0  | 4.98 | 13 | PASS |
| Band7 | 10MHz | 16QAM  | 21400 | 50RB#0 | 5.92 | 13 | PASS |
| Band7 | 10MHz | 64QAM  | 20800 | 1RB#0  | 6.32 | 13 | PASS |
| Band7 | 10MHz | 64QAM  | 20800 | 50RB#0 | 6.80 | 13 | PASS |
| Band7 | 10MHz | 64QAM  | 21100 | 1RB#0  | 6.04 | 13 | PASS |
| Band7 | 10MHz | 64QAM  | 21100 | 50RB#0 | 6.56 | 13 | PASS |
| Band7 | 10MHz | 64QAM  | 21400 | 1RB#0  | 6.14 | 13 | PASS |
| Band7 | 10MHz | 64QAM  | 21400 | 50RB#0 | 6.68 | 13 | PASS |
| Band7 | 10MHz | 256QAM | 20800 | 1RB#0  | 7.34 | 13 | PASS |
| Band7 | 10MHz | 256QAM | 20800 | 50RB#0 | 7.04 | 13 | PASS |
| Band7 | 10MHz | 256QAM | 21100 | 1RB#0  | 7.16 | 13 | PASS |
| Band7 | 10MHz | 256QAM | 21100 | 50RB#0 | 6.92 | 13 | PASS |
| Band7 | 10MHz | 256QAM | 21400 | 1RB#0  | 7.16 | 13 | PASS |
| Band7 | 10MHz | 256QAM | 21400 | 50RB#0 | 6.98 | 13 | PASS |
| Band7 | 15MHz | QPSK   | 20825 | 1RB#0  | 4.44 | 13 | PASS |
| Band7 | 15MHz | QPSK   | 20825 | 75RB#0 | 4.92 | 13 | PASS |
| Band7 | 15MHz | QPSK   | 21100 | 1RB#0  | 4.12 | 13 | PASS |
| Band7 | 15MHz | QPSK   | 21100 | 75RB#0 | 4.84 | 13 | PASS |
| Band7 | 15MHz | QPSK   | 21375 | 1RB#0  | 4.32 | 13 | PASS |
| Band7 | 15MHz | QPSK   | 21375 | 75RB#0 | 4.90 | 13 | PASS |
| Band7 | 15MHz | 16QAM  | 20825 | 1RB#0  | 5.04 | 13 | PASS |
| Band7 | 15MHz | 16QAM  | 20825 | 75RB#0 | 6.20 | 13 | PASS |
| Band7 | 15MHz | 16QAM  | 21100 | 1RB#0  | 4.76 | 13 | PASS |
| Band7 | 15MHz | 16QAM  | 21100 | 75RB#0 | 6.14 | 13 | PASS |
| Band7 | 15MHz | 16QAM  | 21375 | 1RB#0  | 4.84 | 13 | PASS |
| Band7 | 15MHz | 16QAM  | 21375 | 75RB#0 | 6.14 | 13 | PASS |
| Band7 | 15MHz | 64QAM  | 20825 | 1RB#0  | 6.30 | 13 | PASS |
| Band7 | 15MHz | 64QAM  | 20825 | 75RB#0 | 6.84 | 13 | PASS |
| Band7 | 15MHz | 64QAM  | 21100 | 1RB#0  | 6.00 | 13 | PASS |
| Band7 | 15MHz | 64QAM  | 21100 | 75RB#0 | 6.76 | 13 | PASS |
| Band7 | 15MHz | 64QAM  | 21375 | 1RB#0  | 6.10 | 13 | PASS |
| Band7 | 15MHz | 64QAM  | 21375 | 75RB#0 | 6.76 | 13 | PASS |



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| Band7 | 15MHz | 256QAM | 20825 | 1RB#0   | 7.42 | 13 | PASS |
| Band7 | 15MHz | 256QAM | 20825 | 75RB#0  | 7.06 | 13 | PASS |
| Band7 | 15MHz | 256QAM | 21100 | 1RB#0   | 7.18 | 13 | PASS |
| Band7 | 15MHz | 256QAM | 21100 | 75RB#0  | 6.98 | 13 | PASS |
| Band7 | 15MHz | 256QAM | 21375 | 1RB#0   | 7.30 | 13 | PASS |
| Band7 | 15MHz | 256QAM | 21375 | 75RB#0  | 7.00 | 13 | PASS |
| Band7 | 20MHz | QPSK   | 20850 | 1RB#0   | 4.50 | 13 | PASS |
| Band7 | 20MHz | QPSK   | 20850 | 100RB#0 | 4.94 | 13 | PASS |
| Band7 | 20MHz | QPSK   | 21100 | 1RB#0   | 4.18 | 13 | PASS |
| Band7 | 20MHz | QPSK   | 21100 | 100RB#0 | 4.88 | 13 | PASS |
| Band7 | 20MHz | QPSK   | 21350 | 1RB#0   | 4.38 | 13 | PASS |
| Band7 | 20MHz | QPSK   | 21350 | 100RB#0 | 4.92 | 13 | PASS |
| Band7 | 20MHz | 16QAM  | 20850 | 1RB#0   | 5.22 | 13 | PASS |
| Band7 | 20MHz | 16QAM  | 20850 | 100RB#0 | 5.98 | 13 | PASS |
| Band7 | 20MHz | 16QAM  | 21100 | 1RB#0   | 4.90 | 13 | PASS |
| Band7 | 20MHz | 16QAM  | 21100 | 100RB#0 | 5.92 | 13 | PASS |
| Band7 | 20MHz | 16QAM  | 21350 | 1RB#0   | 5.24 | 13 | PASS |
| Band7 | 20MHz | 16QAM  | 21350 | 100RB#0 | 6.02 | 13 | PASS |
| Band7 | 20MHz | 64QAM  | 20850 | 1RB#0   | 6.36 | 13 | PASS |
| Band7 | 20MHz | 64QAM  | 20850 | 100RB#0 | 6.72 | 13 | PASS |
| Band7 | 20MHz | 64QAM  | 21100 | 1RB#0   | 6.08 | 13 | PASS |
| Band7 | 20MHz | 64QAM  | 21100 | 100RB#0 | 6.62 | 13 | PASS |
| Band7 | 20MHz | 64QAM  | 21350 | 1RB#0   | 6.32 | 13 | PASS |
| Band7 | 20MHz | 64QAM  | 21350 | 100RB#0 | 6.66 | 13 | PASS |
| Band7 | 20MHz | 256QAM | 20850 | 1RB#0   | 7.66 | 13 | PASS |
| Band7 | 20MHz | 256QAM | 20850 | 100RB#0 | 7.00 | 13 | PASS |
| Band7 | 20MHz | 256QAM | 21100 | 1RB#0   | 7.34 | 13 | PASS |
| Band7 | 20MHz | 256QAM | 21100 | 100RB#0 | 6.90 | 13 | PASS |
| Band7 | 20MHz | 256QAM | 21350 | 1RB#0   | 7.40 | 13 | PASS |
| Band7 | 20MHz | 256QAM | 21350 | 100RB#0 | 6.94 | 13 | PASS |



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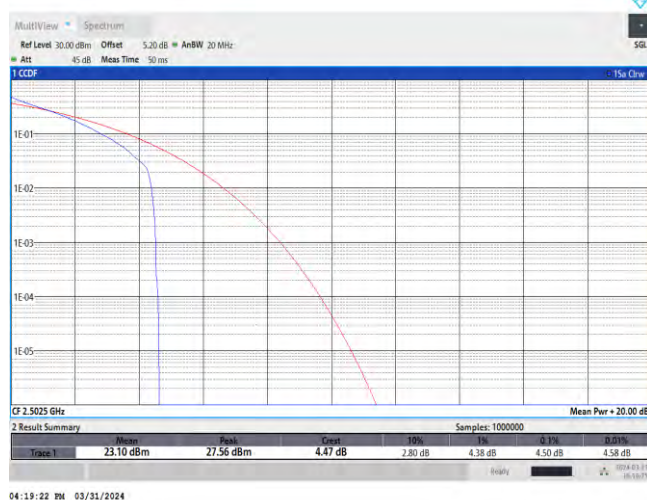
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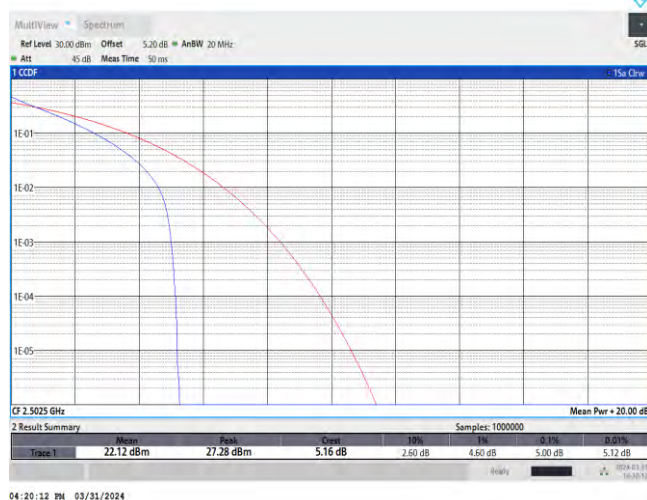
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### Test Graphs

Band7-5MHz-QPSK-20775-1RB#0



Band7-5MHz-QPSK-20775-25RB#0



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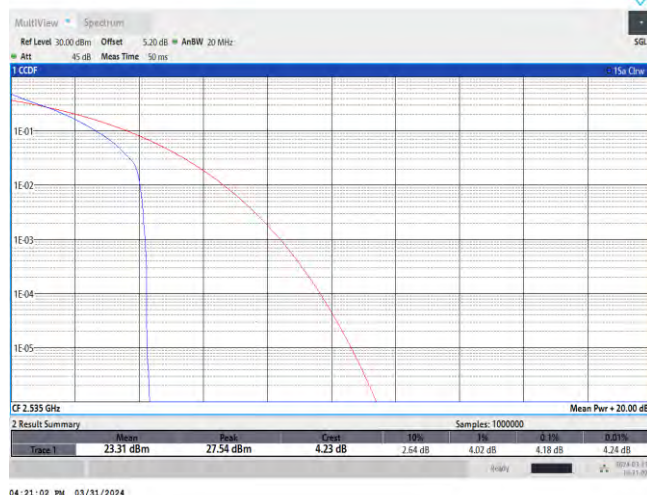


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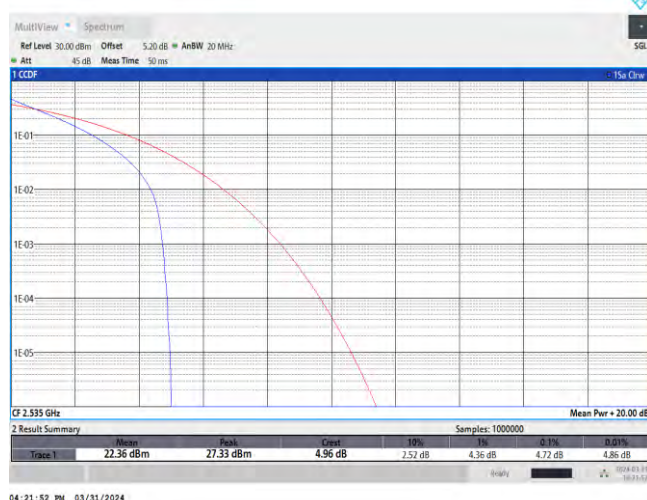
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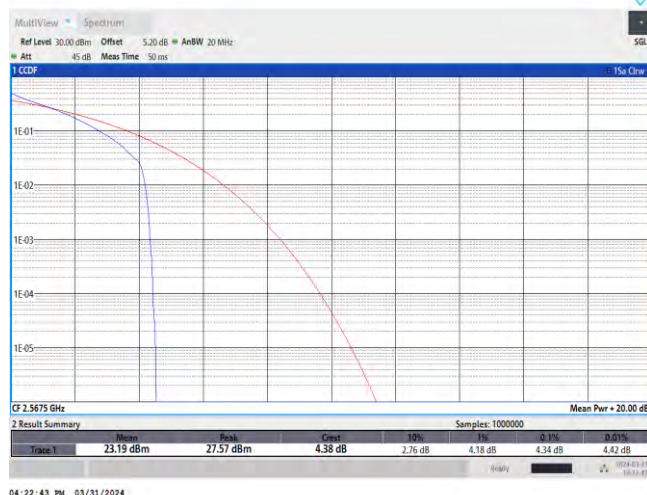
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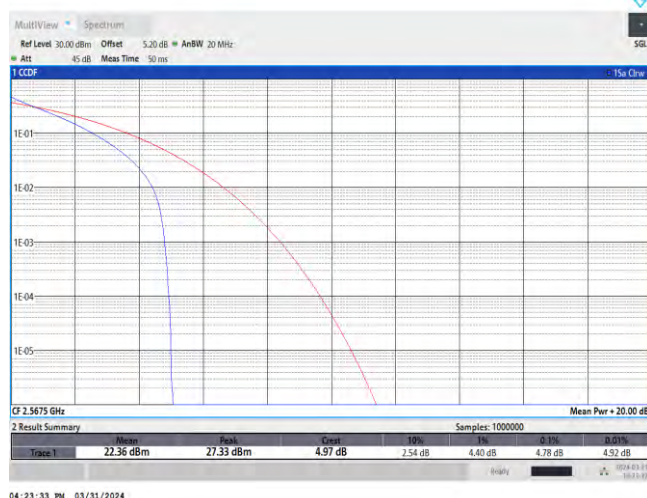
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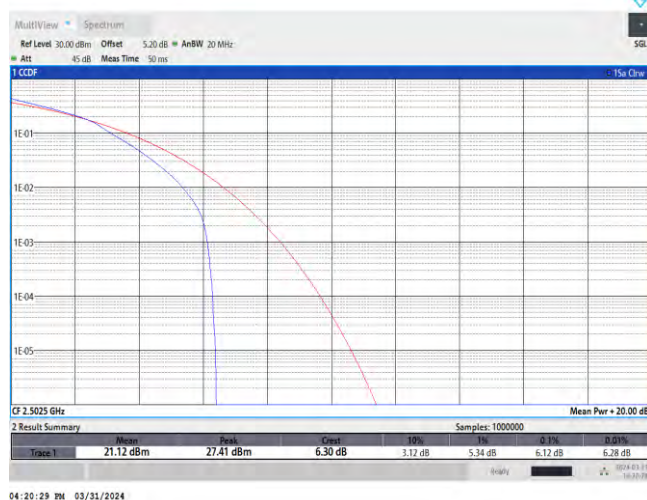
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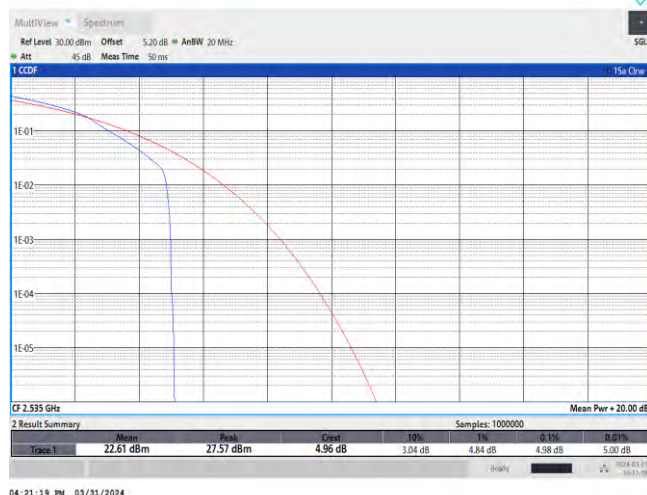


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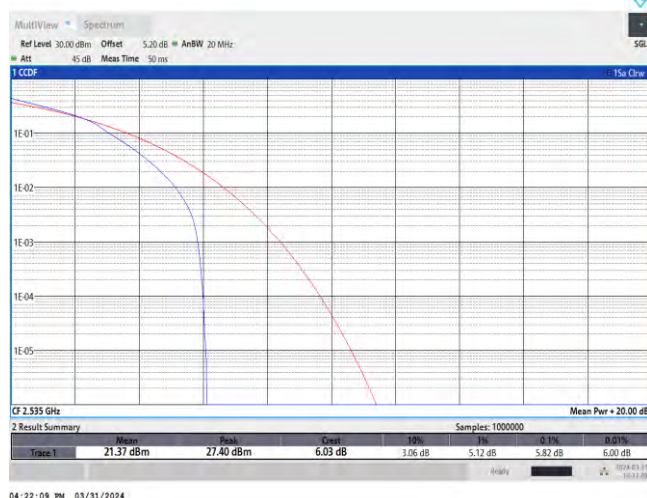
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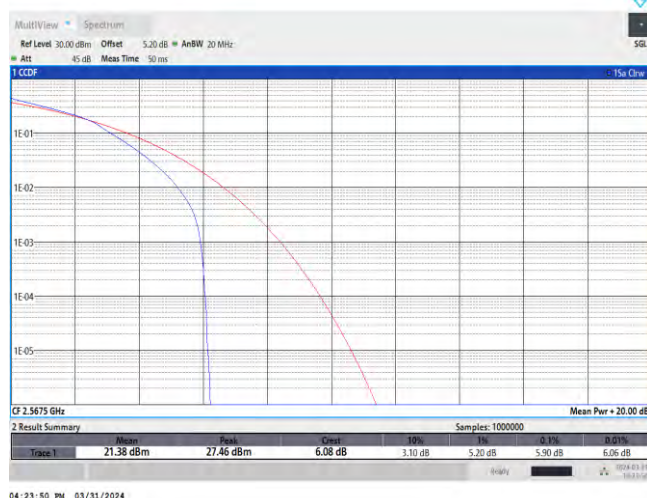
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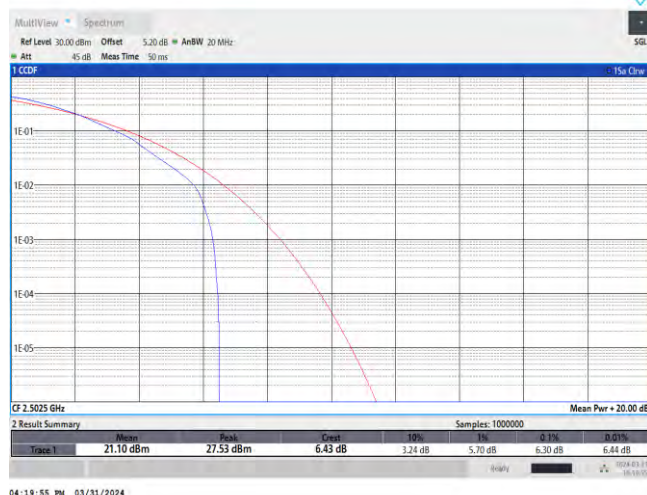
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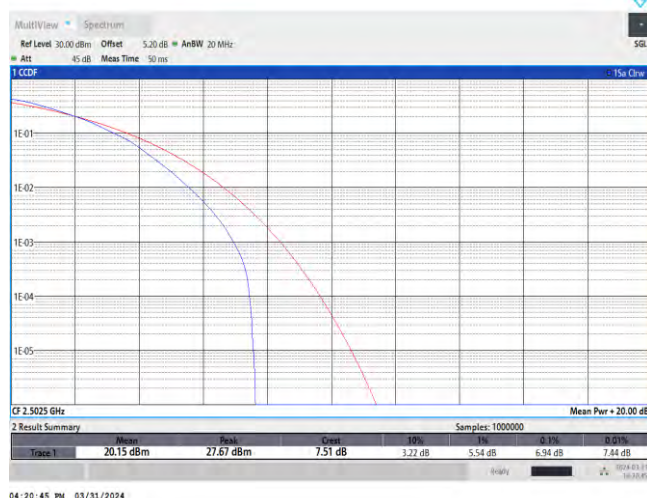
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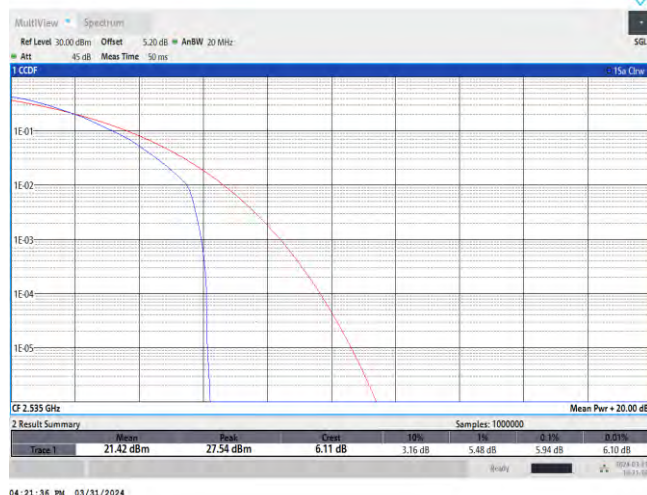
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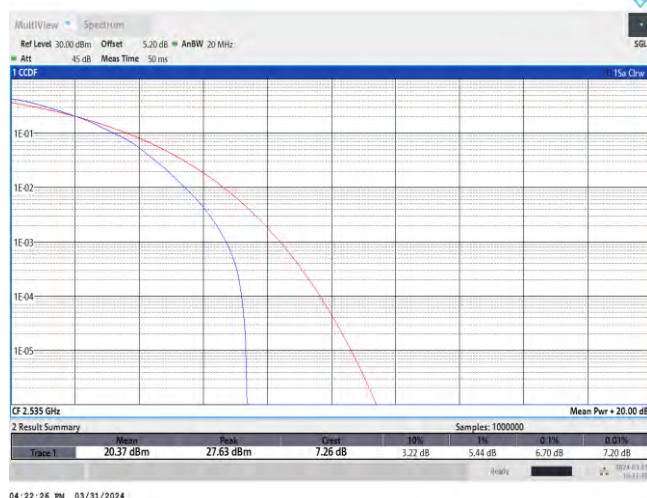
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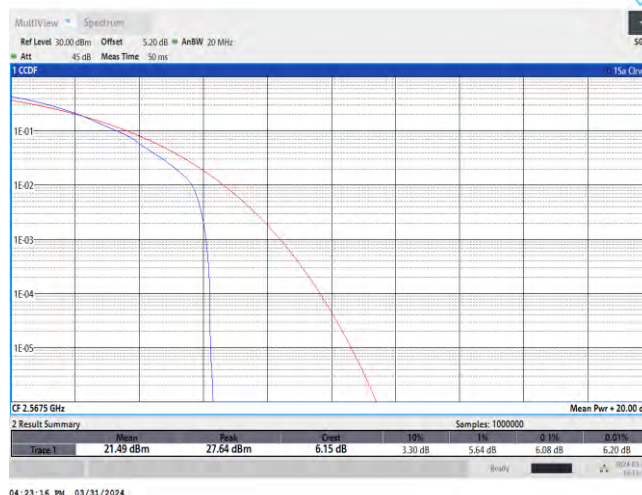


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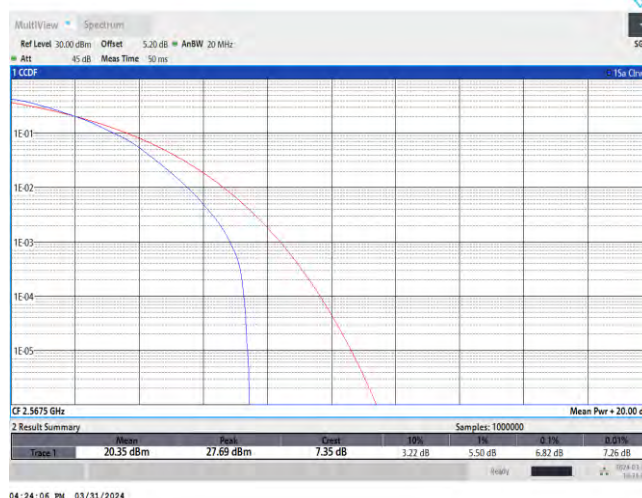
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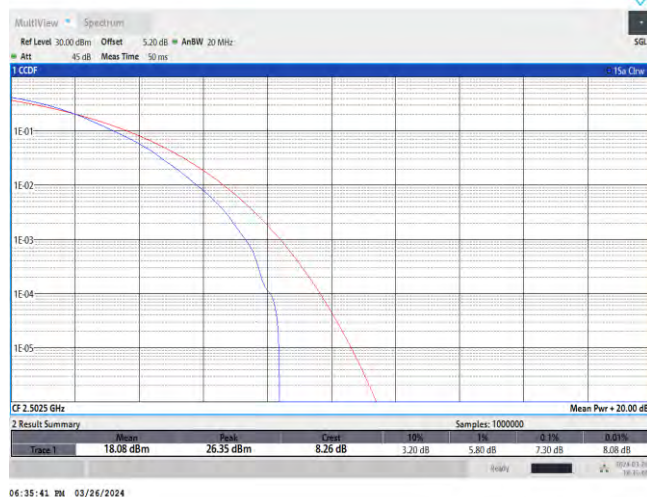
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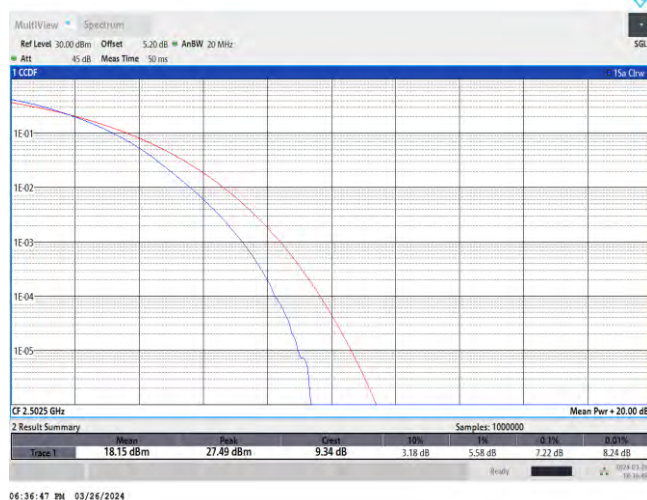
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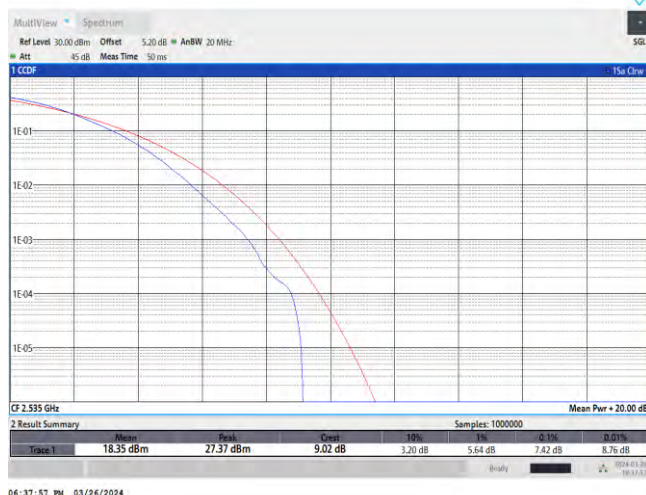
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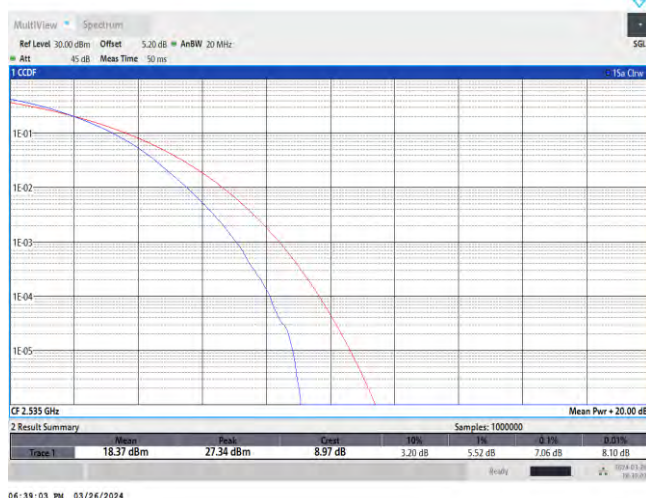
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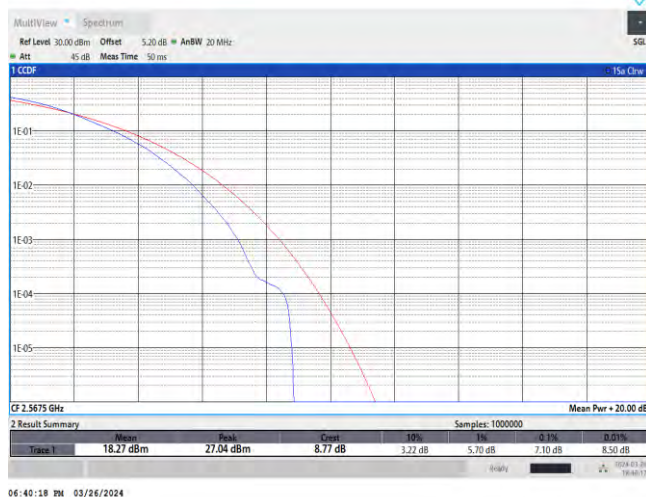


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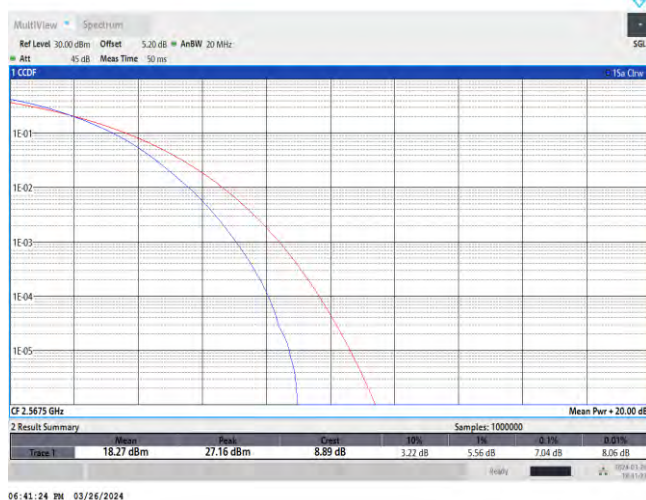
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### Band7-5MHz-256QAM-21425-1RB#0



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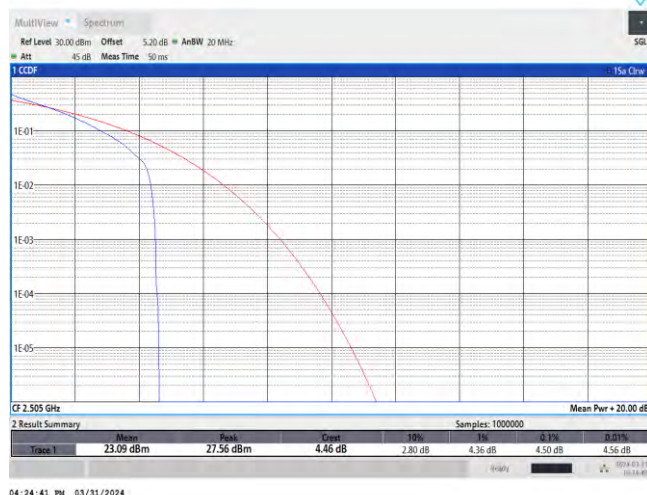
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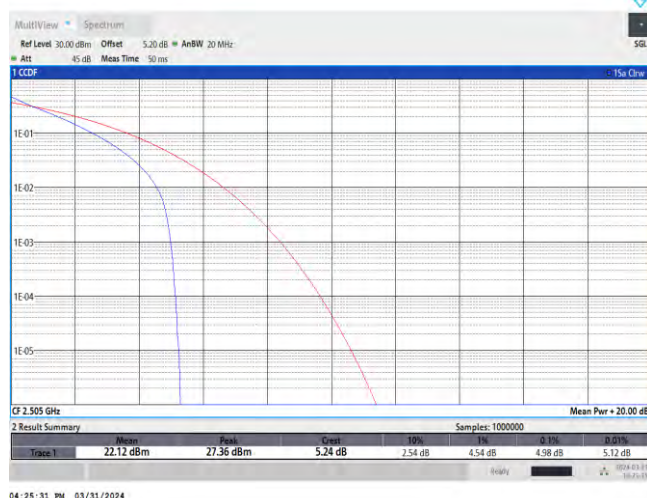
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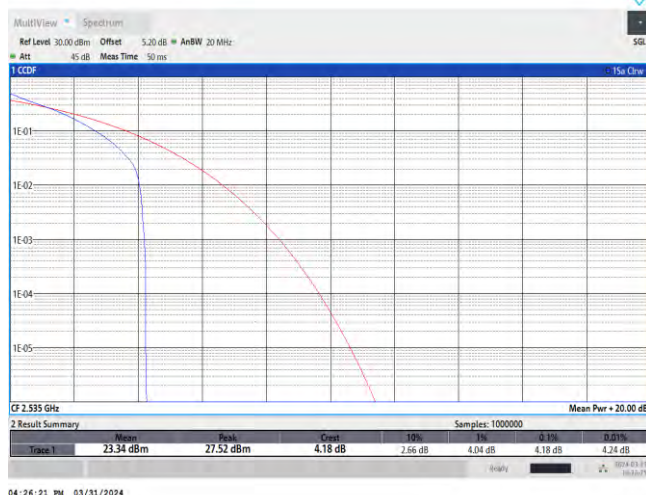
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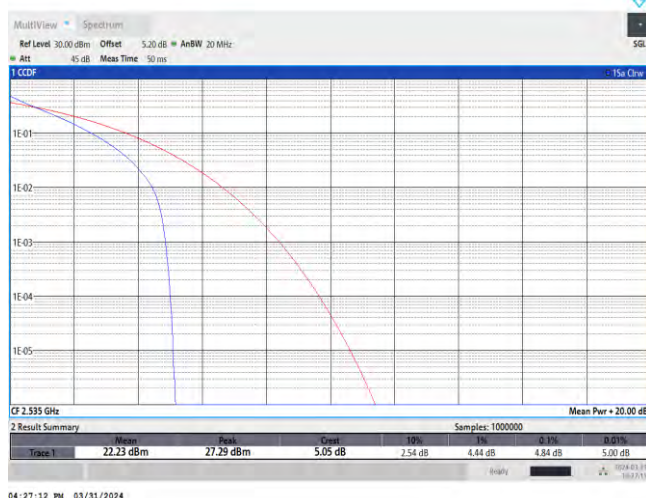
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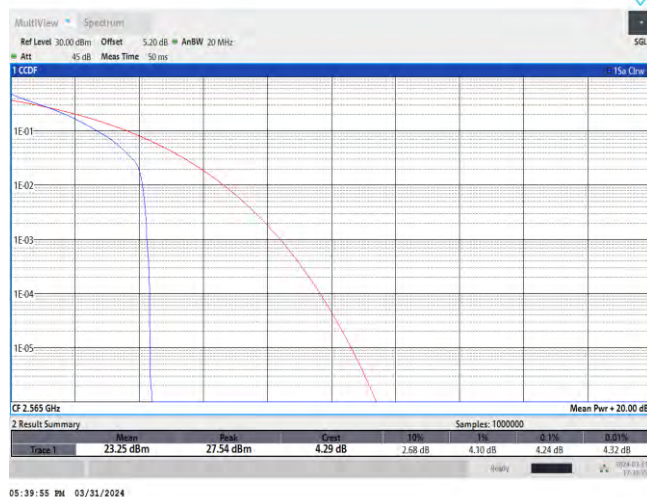


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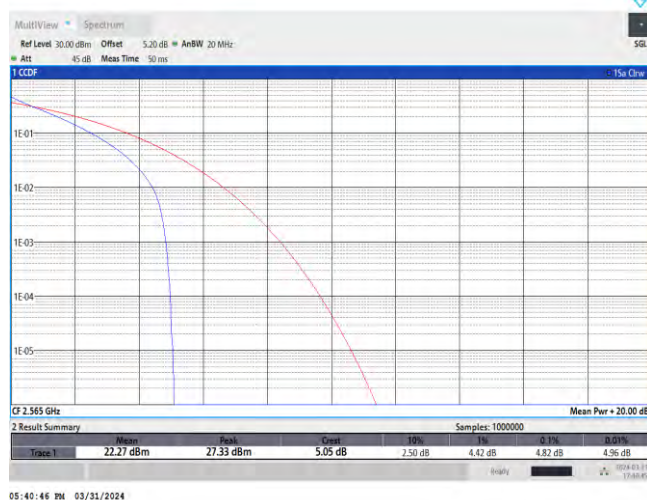
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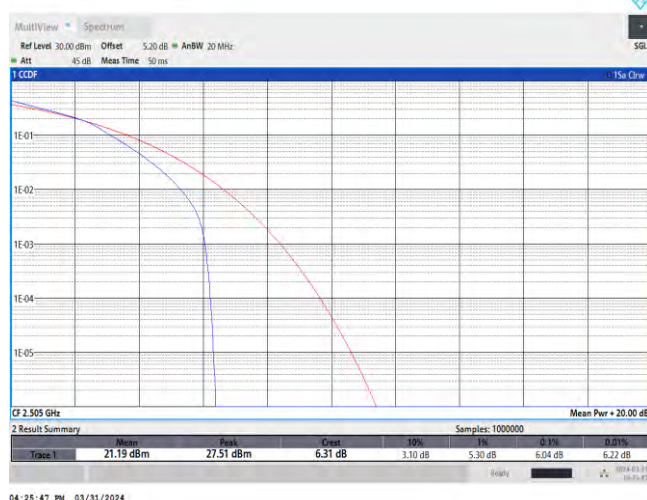
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### Band7-10MHz-16QAM-20800-1RB#0



### Band7-10MHz-16QAM-20800-50RB#0



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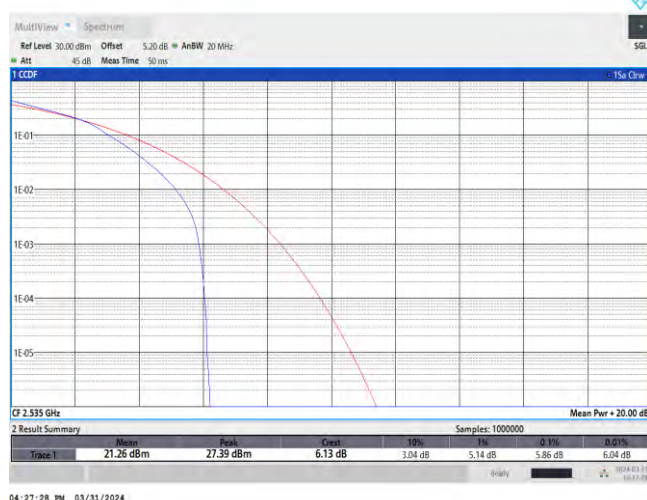
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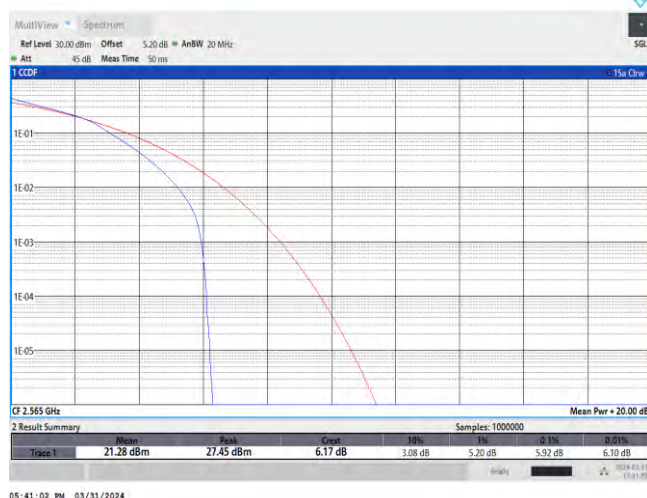
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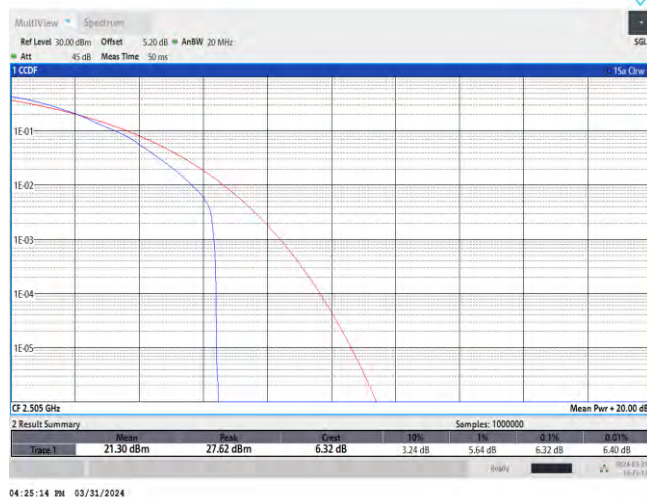
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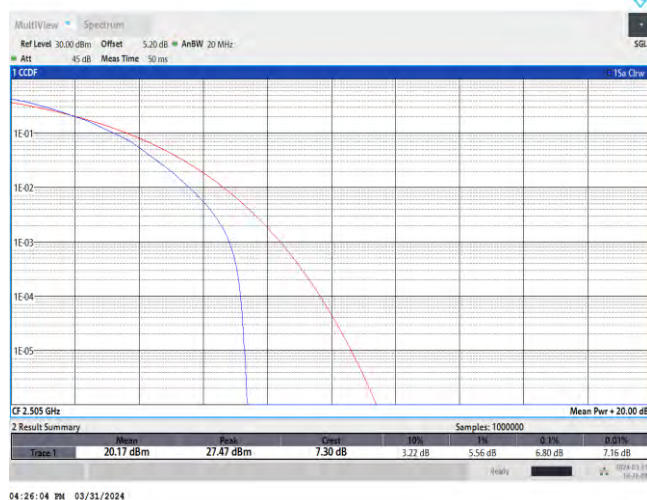
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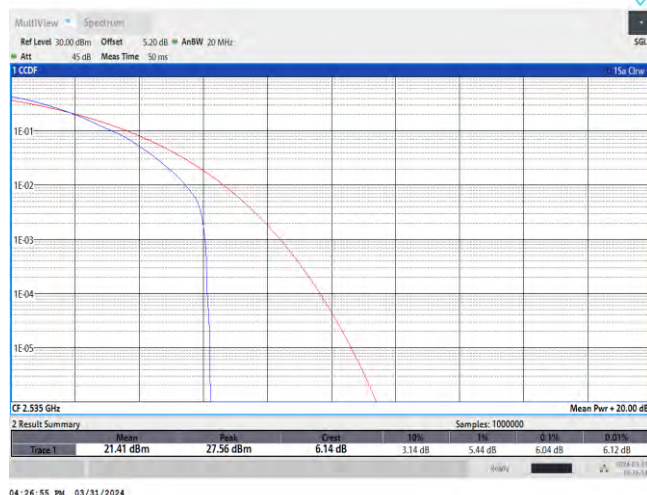
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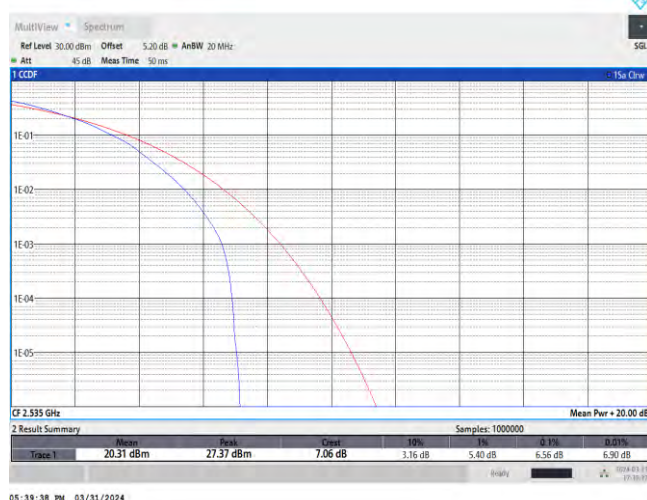
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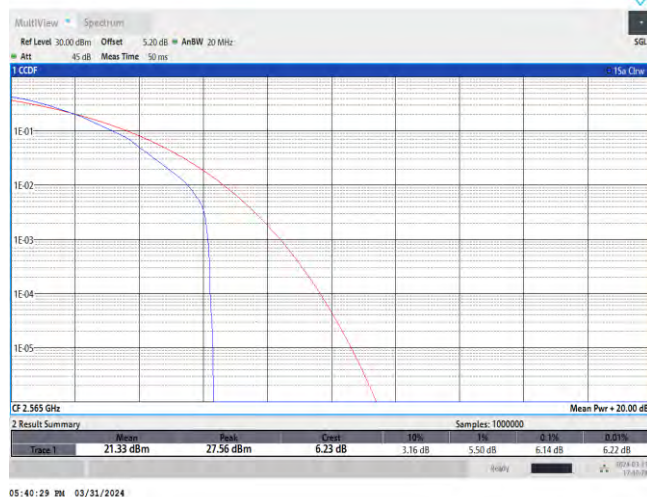
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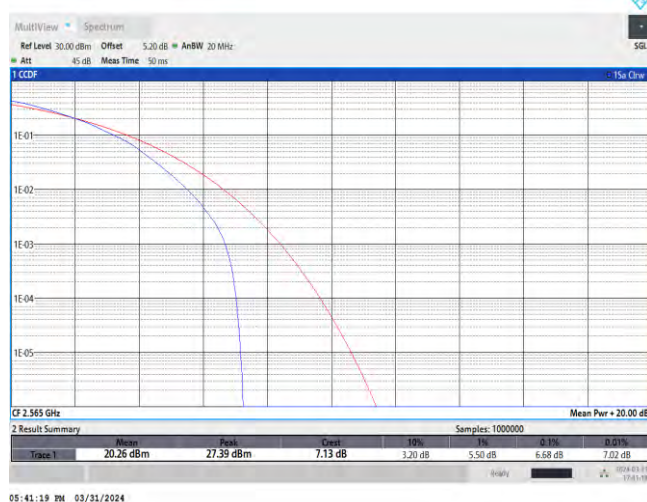


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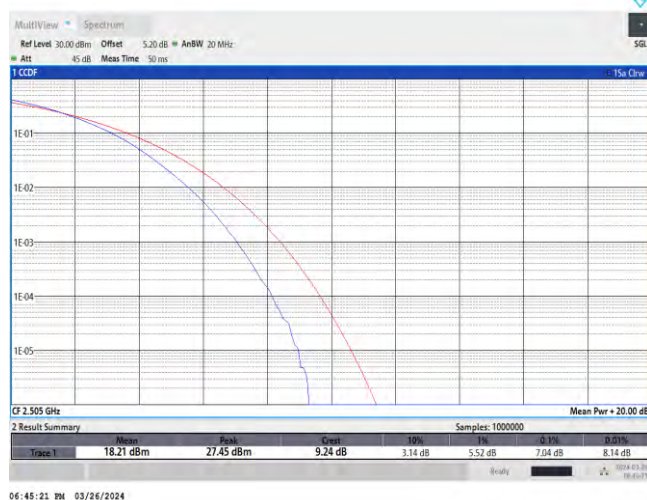
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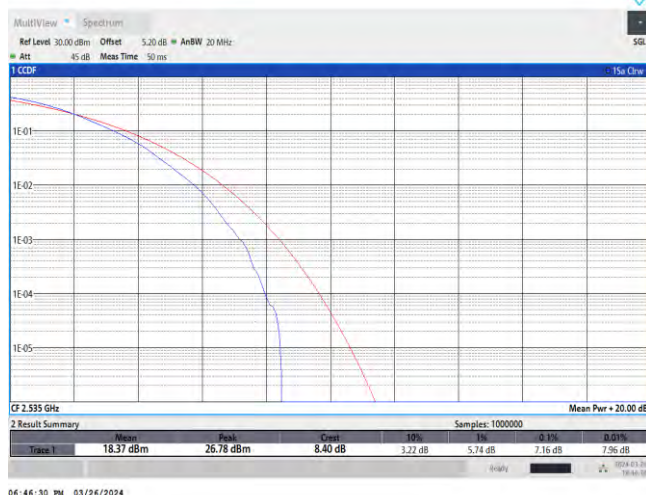
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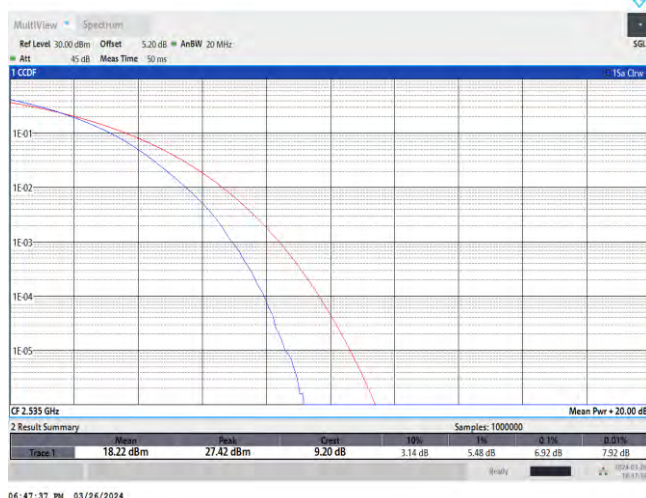
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### Band7-10MHz-256QAM-21100-1RB#0



### Band7-10MHz-256QAM-21100-50RB#0



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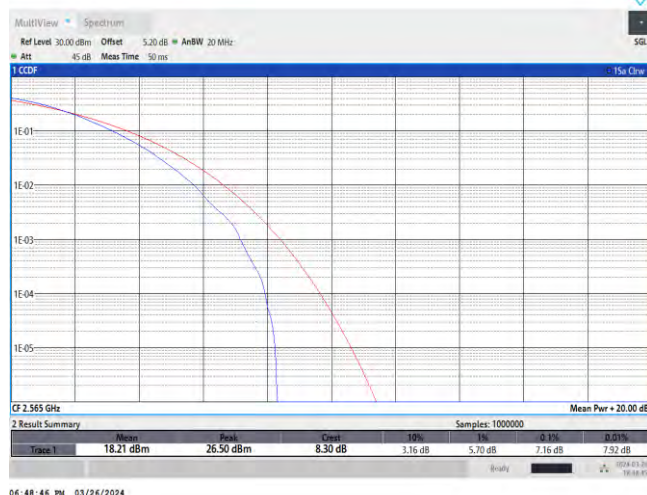


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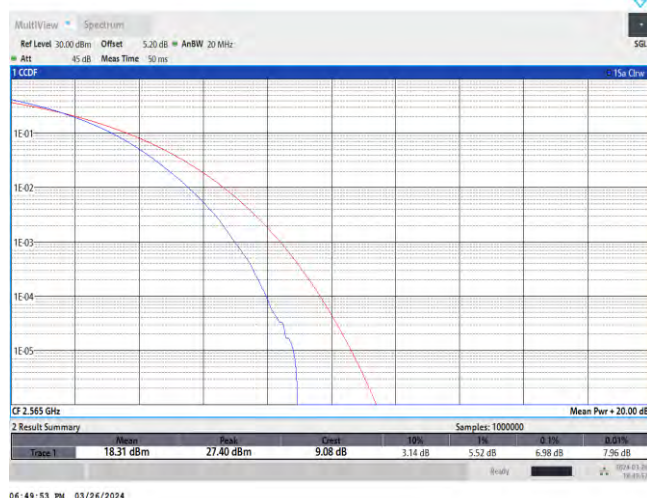
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### Band7-10MHz-256QAM-21400-1RB#0



### Band7-10MHz-256QAM-21400-50RB#0



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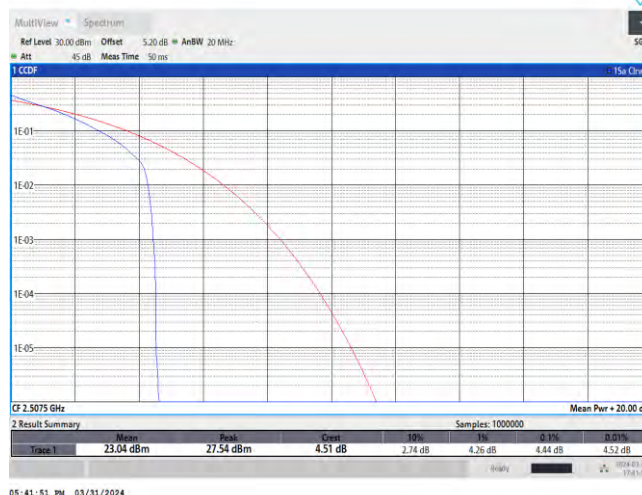
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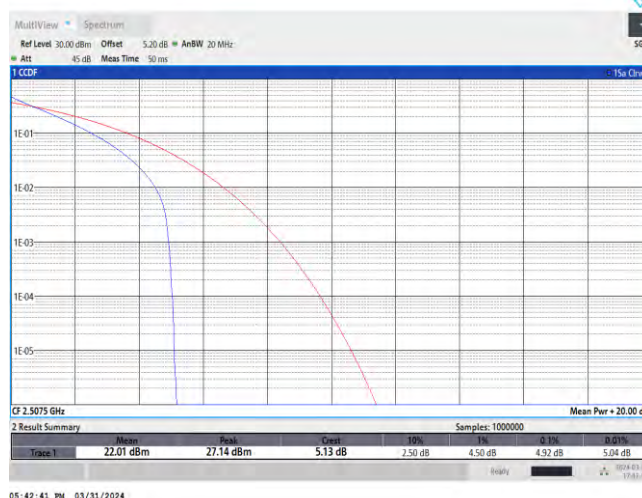
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### Band7-15MHz-QPSK-20825-1RB#0



### Band7-15MHz-QPSK-20825-75RB#0



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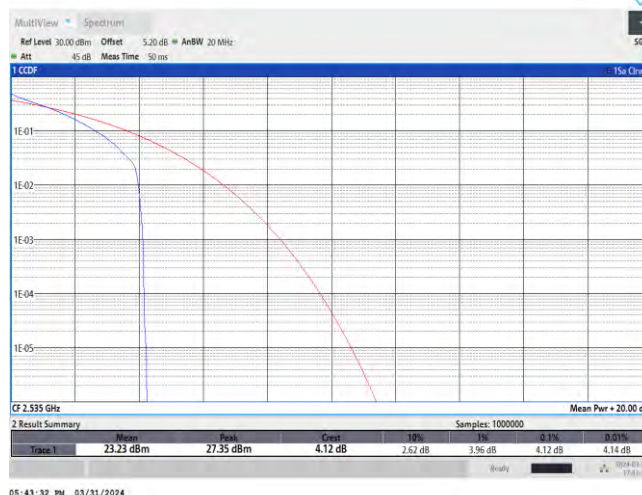
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### Band7-15MHz-QPSK-21100-1RB#0



### Band7-15MHz-QPSK-21100-75RB#0



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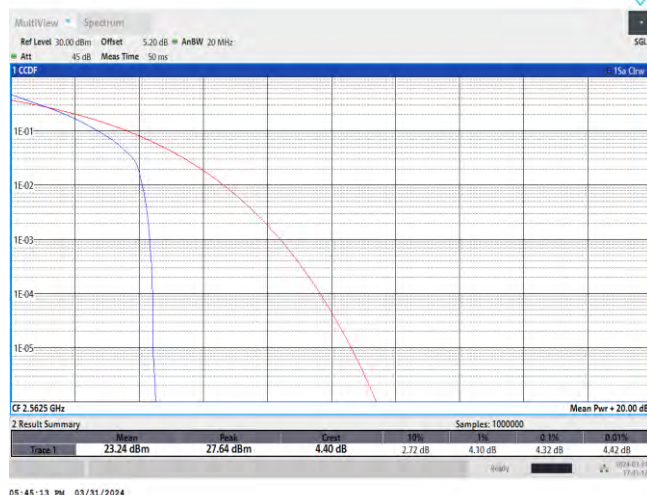
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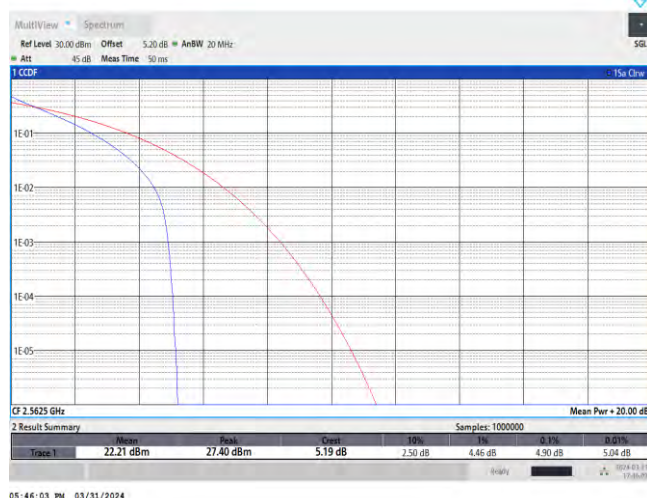


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### Band7-15MHz-QPSK-21375-1RB#0



### Band7-15MHz-QPSK-21375-75RB#0



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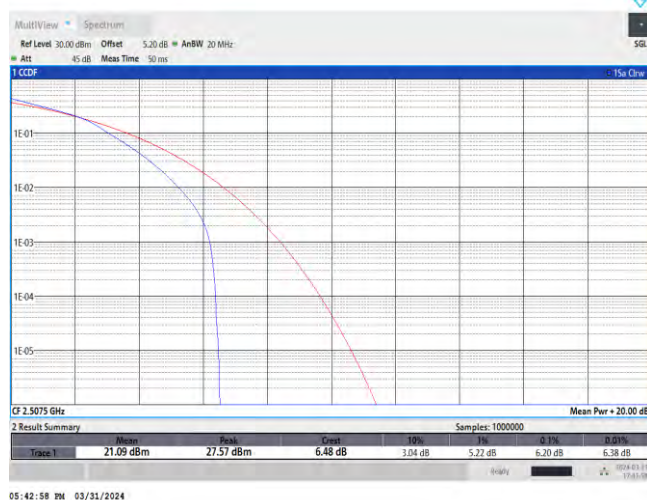
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### Band7-15MHz-16QAM-20825-1RB#0



### Band7-15MHz-16QAM-20825-75RB#0



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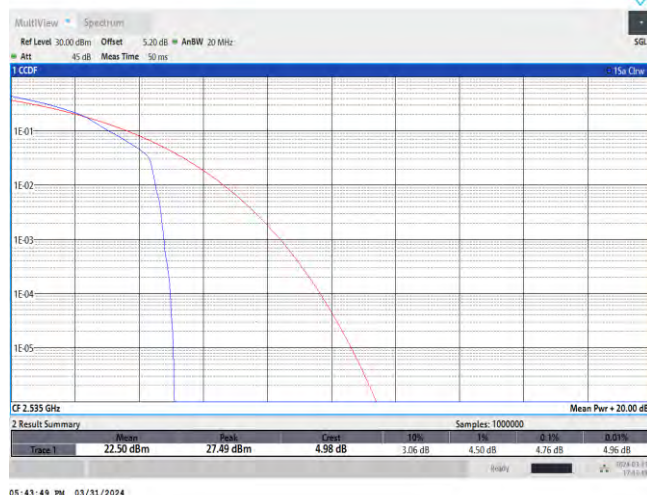
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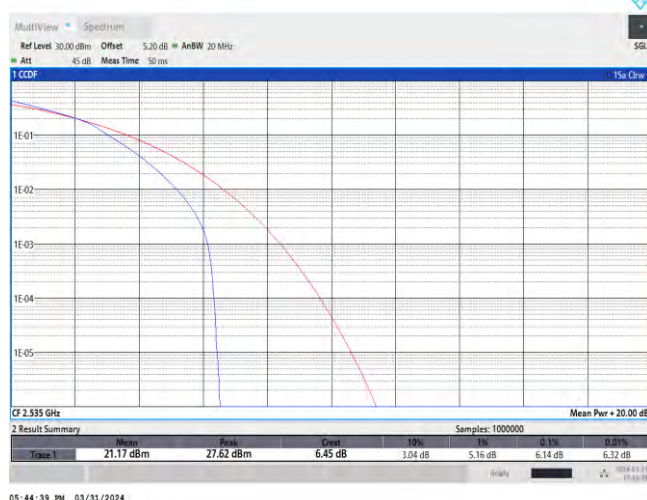
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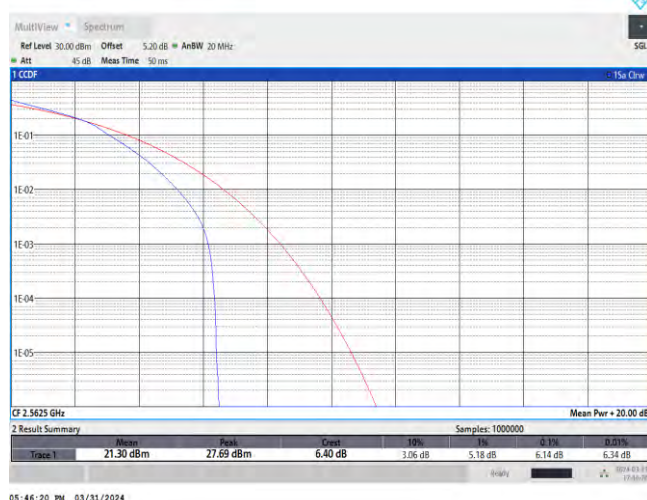


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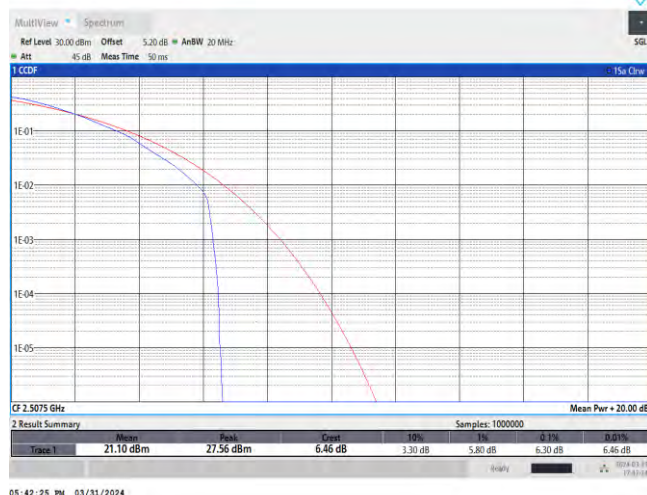
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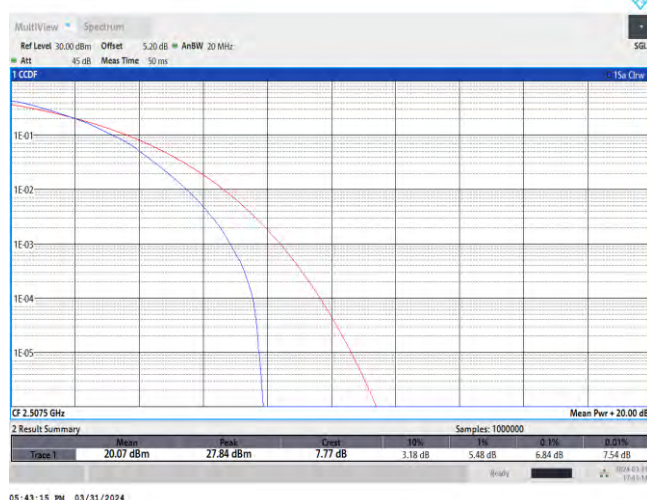
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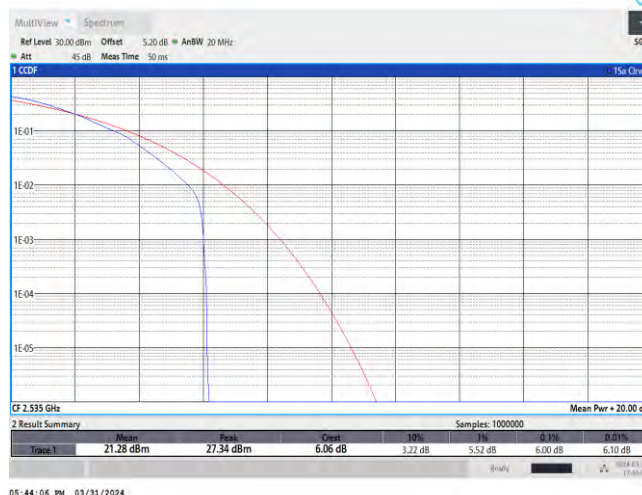
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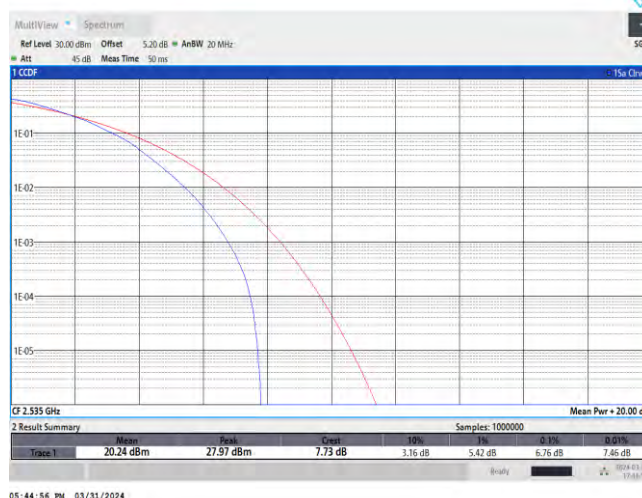
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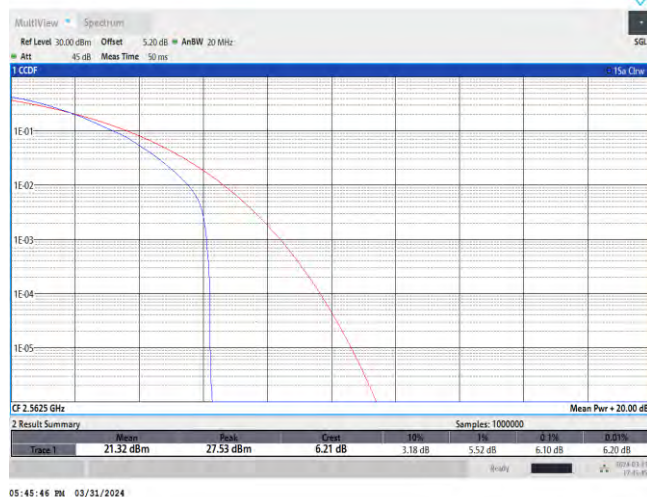
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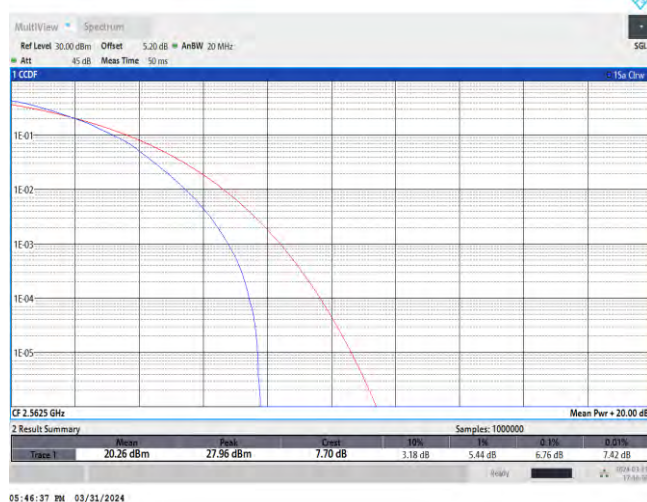


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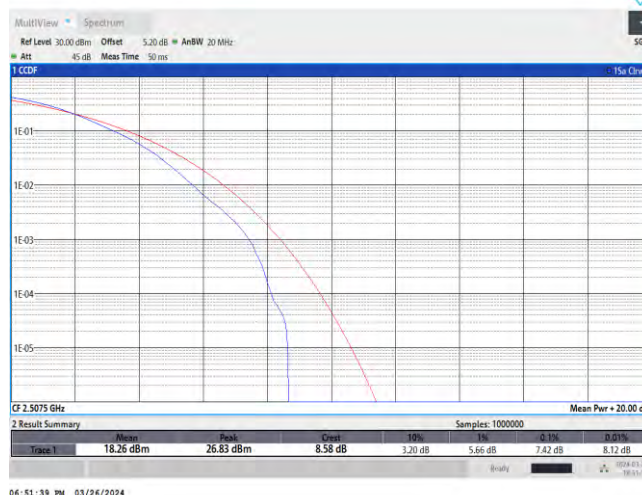
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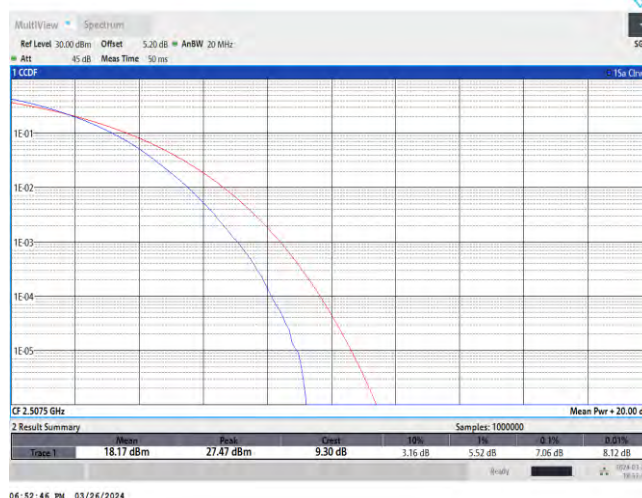
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### Band7-15MHz-256QAM-20825-1RB#0



### Band7-15MHz-256QAM-20825-75RB#0



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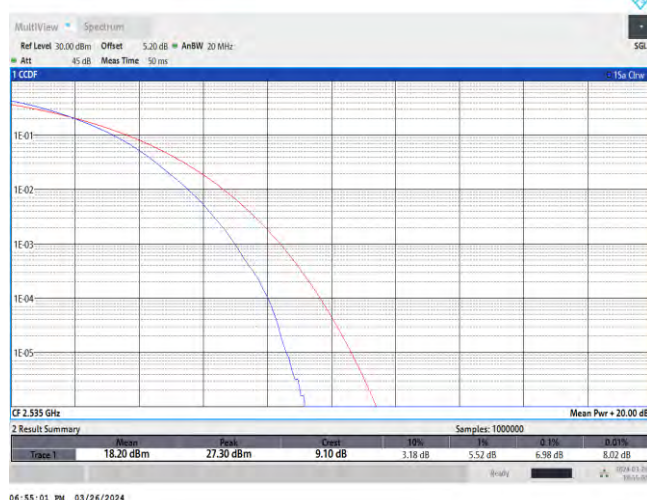
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### Band7-15MHz-256QAM-21100-1RB#0



### Band7-15MHz-256QAM-21100-75RB#0



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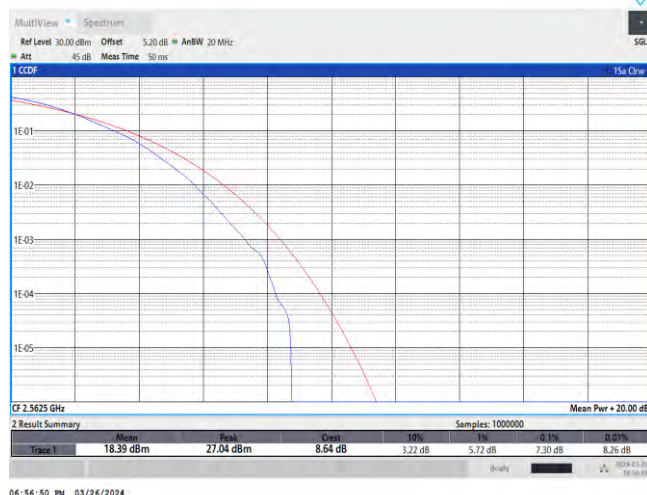


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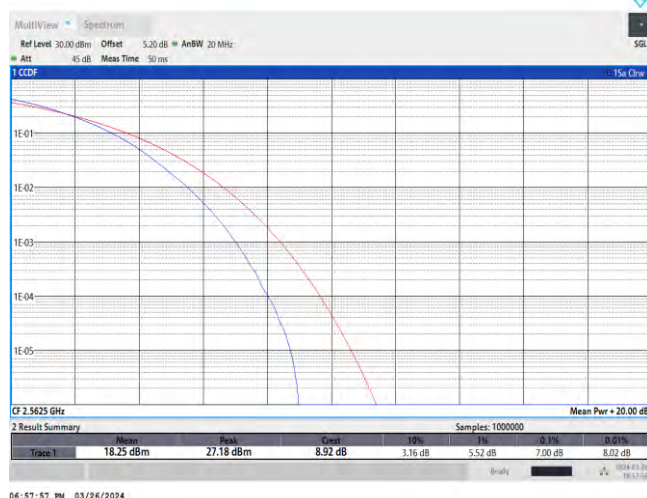
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### Band7-15MHz-256QAM-21375-75RB#0



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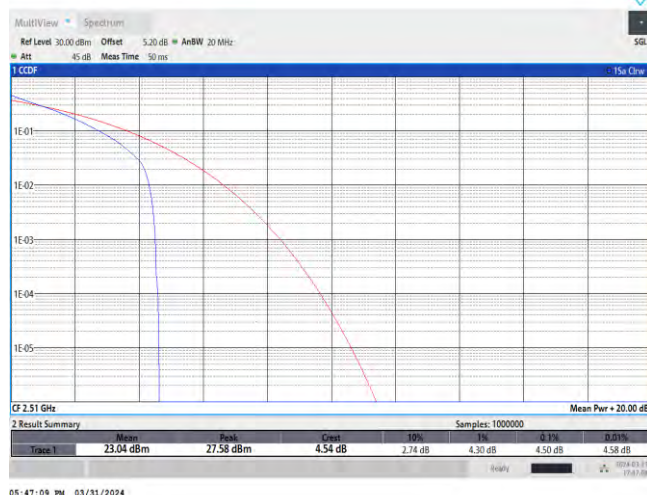
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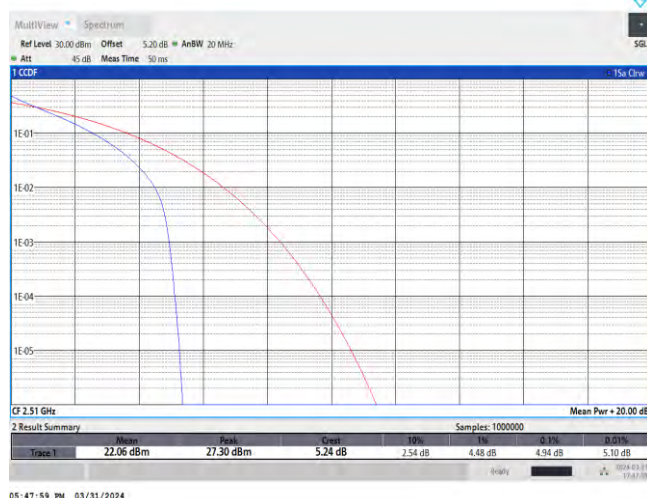
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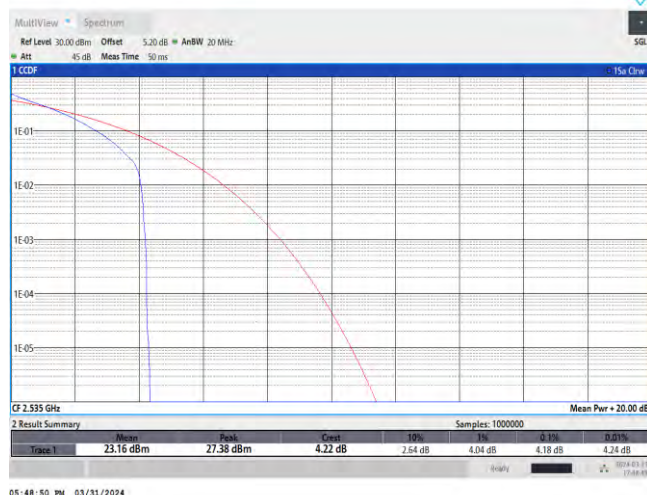
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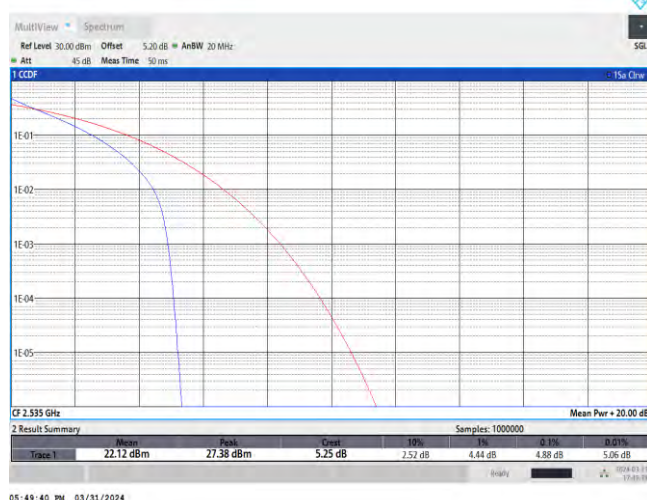
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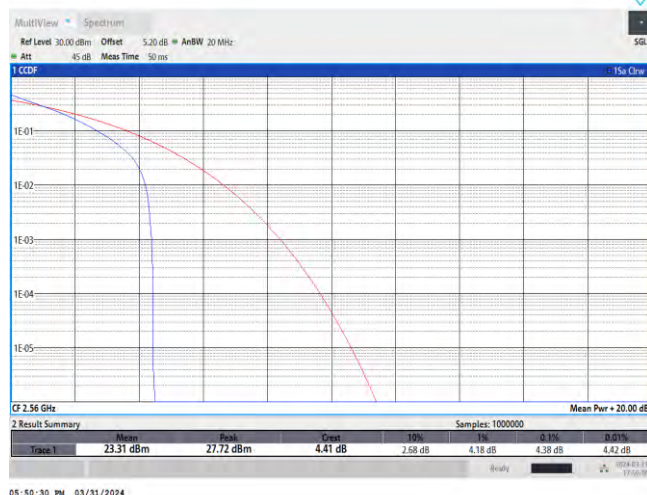


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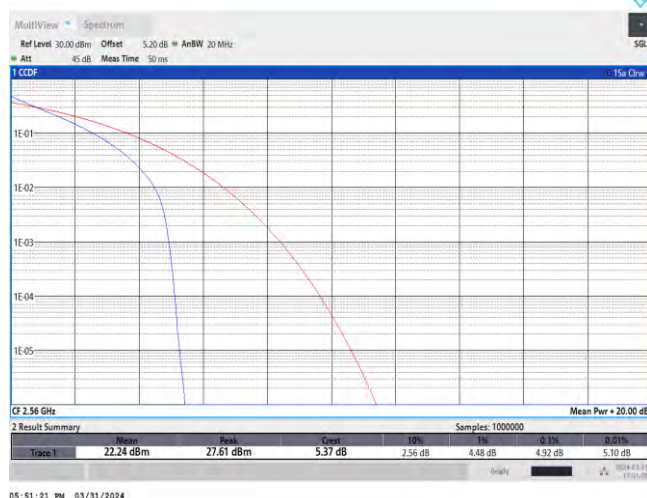
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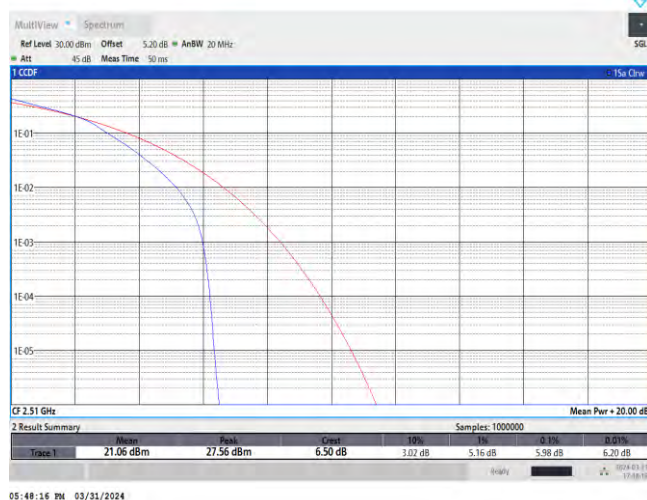
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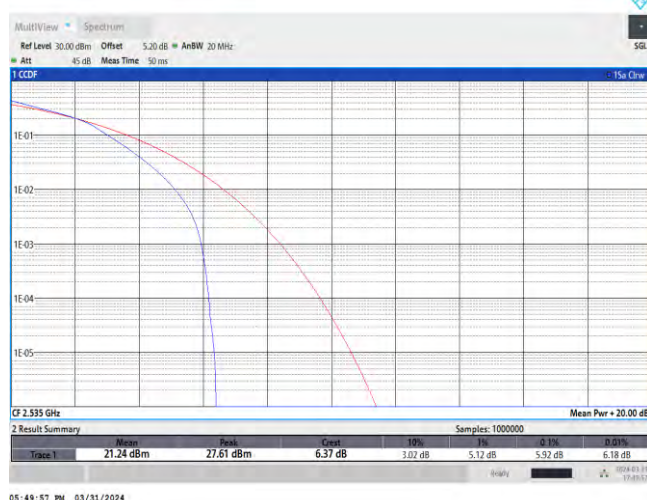
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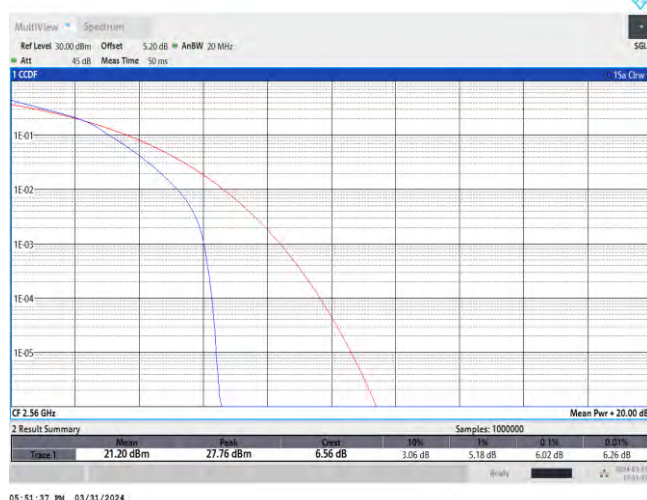
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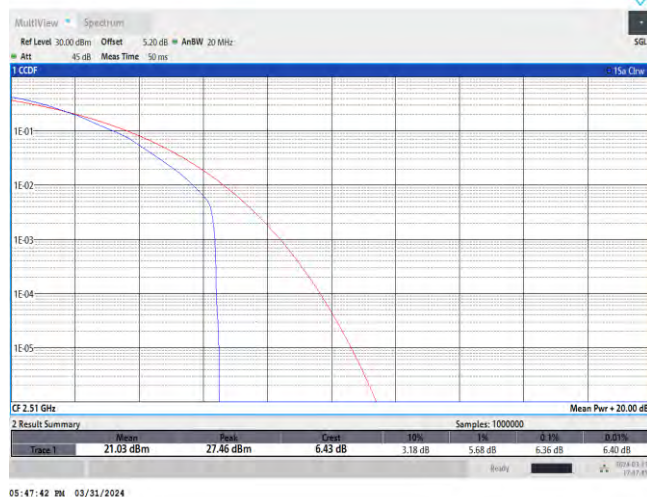
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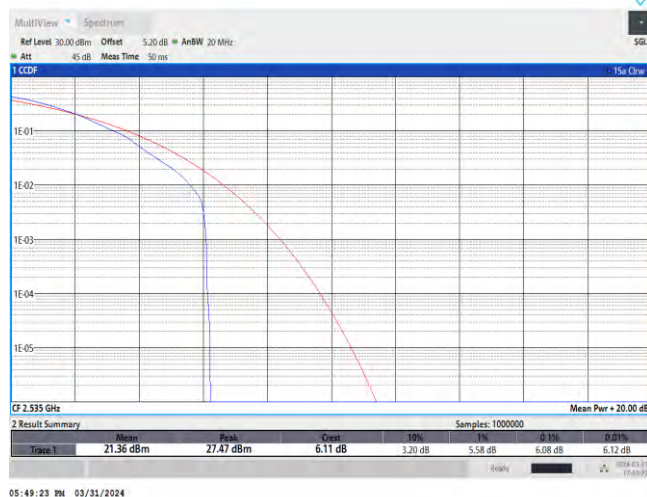
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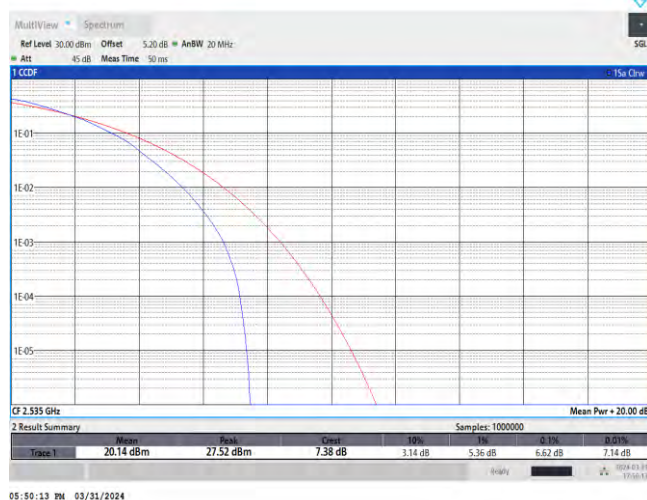
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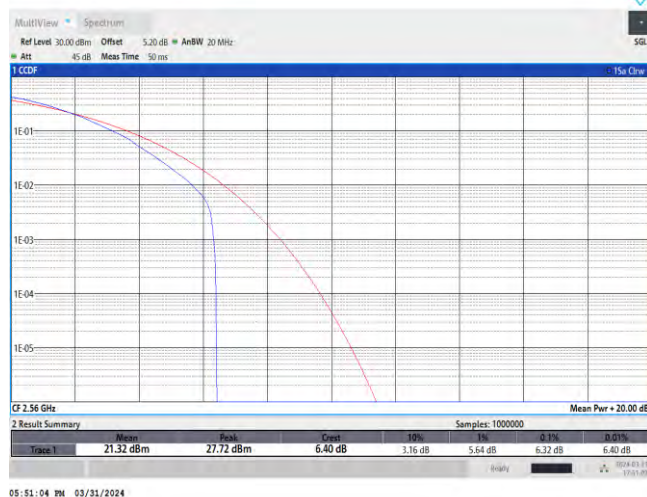
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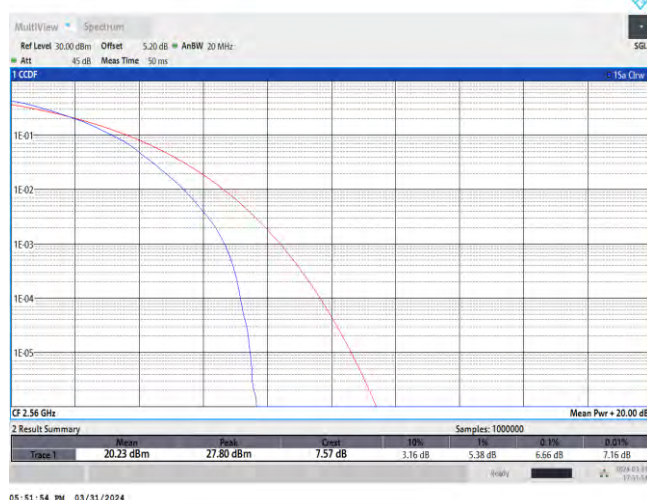


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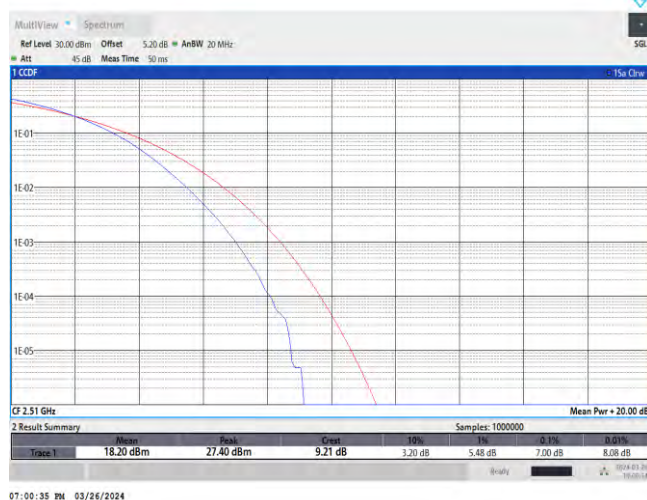
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### Band7-20MHz-256QAM-20850-1RB#0



### Band7-20MHz-256QAM-20850-100RB#0



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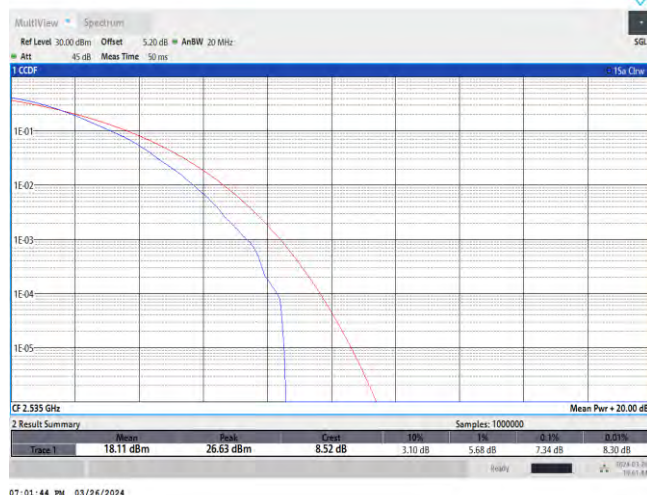
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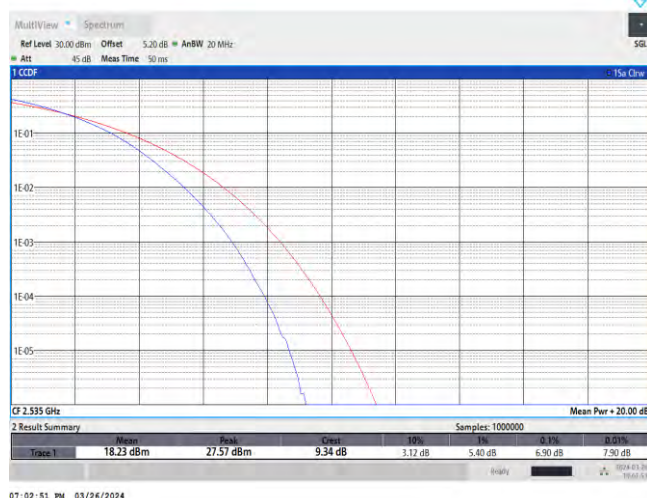
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### Band7-20MHz-256QAM-21100-1RB#0



### Band7-20MHz-256QAM-21100-100RB#0



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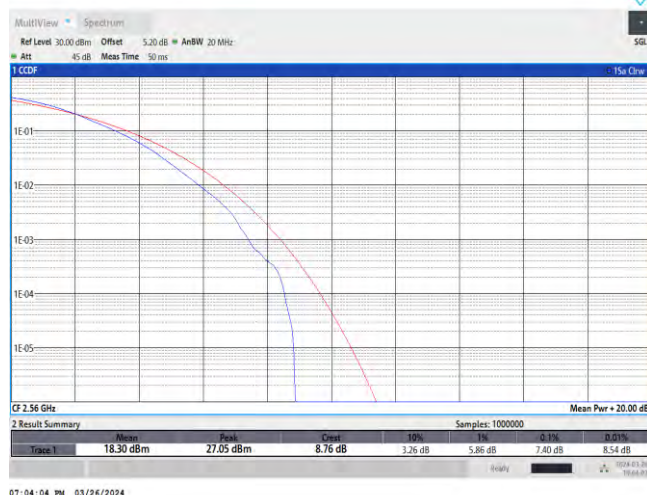
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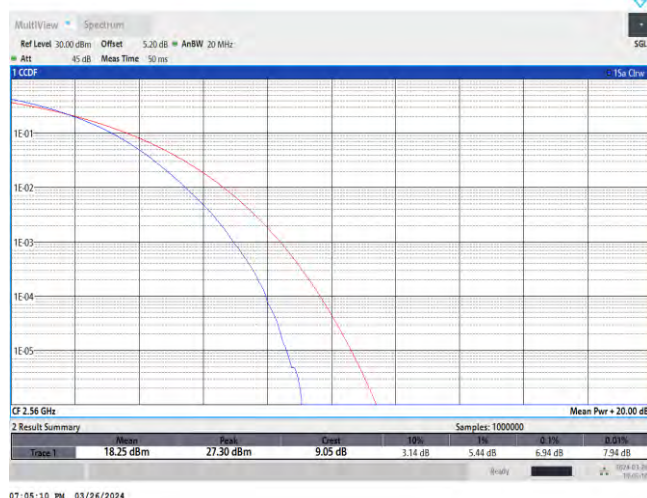


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### Band7-20MHz-256QAM-21350-1RB#0



### Band7-20MHz-256QAM-21350-100RB#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 |
|-------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band7 | 5MHz      | QPSK       | 21100   | 25RB#0           | 4.477                    | 5.02                 | PASS    |
| Band7 | 5MHz      | 16QAM      | 21100   | 25RB#0           | 4.476                    | 5.00                 | PASS    |
| Band7 | 5MHz      | 64QAM      | 21100   | 25RB#0           | 4.474                    | 5.03                 | PASS    |
| Band7 | 5MHz      | 256QAM     | 21100   | 25RB#0           | 4.479                    | 5.00                 | PASS    |
| Band7 | 10MHz     | QPSK       | 21100   | 50RB#0           | 8.946                    | 9.84                 | PASS    |
| Band7 | 10MHz     | 16QAM      | 21100   | 50RB#0           | 8.948                    | 9.92                 | PASS    |
| Band7 | 10MHz     | 64QAM      | 21100   | 50RB#0           | 8.949                    | 9.94                 | PASS    |
| Band7 | 10MHz     | 256QAM     | 21100   | 50RB#0           | 8.95                     | 9.90                 | PASS    |
| Band7 | 15MHz     | QPSK       | 21100   | 75RB#0           | 13.507                   | 15.18                | PASS    |
| Band7 | 15MHz     | 16QAM      | 21100   | 75RB#0           | 13.489                   | 15.03                | PASS    |
| Band7 | 15MHz     | 64QAM      | 21100   | 75RB#0           | 13.479                   | 15.06                | PASS    |
| Band7 | 15MHz     | 256QAM     | 21100   | 75RB#0           | 13.481                   | 15.03                | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0          | 17.917                   | 19.80                | PASS    |
| Band7 | 20MHz     | 16QAM      | 21100   | 100RB#0          | 17.929                   | 19.72                | PASS    |
| Band7 | 20MHz     | 64QAM      | 21100   | 100RB#0          | 17.9                     | 19.68                | PASS    |
| Band7 | 20MHz     | 256QAM     | 21100   | 100RB#0          | 17.919                   | 19.60                | PASS    |



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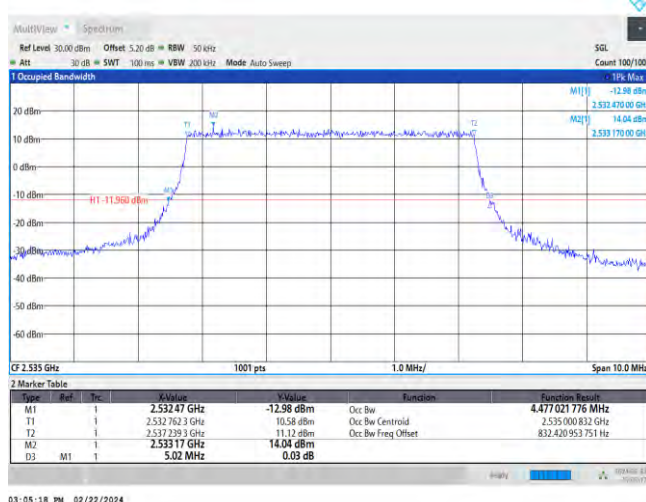
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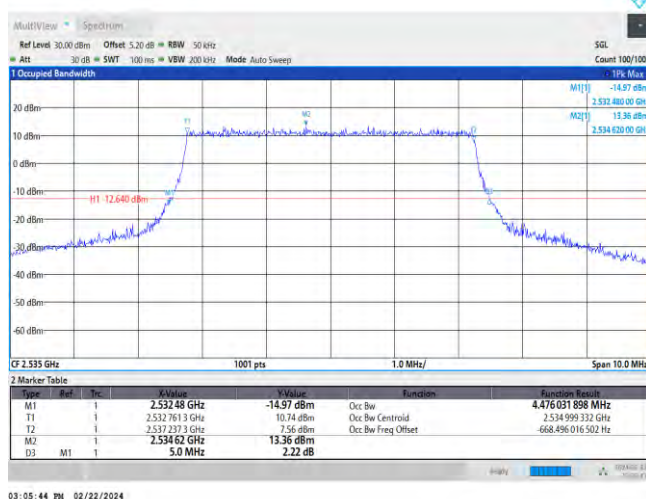
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### Test Graphs

Band7-5MHz-QPSK-21100-25RB#0



Band7-5MHz-16QAM-21100-25RB#0



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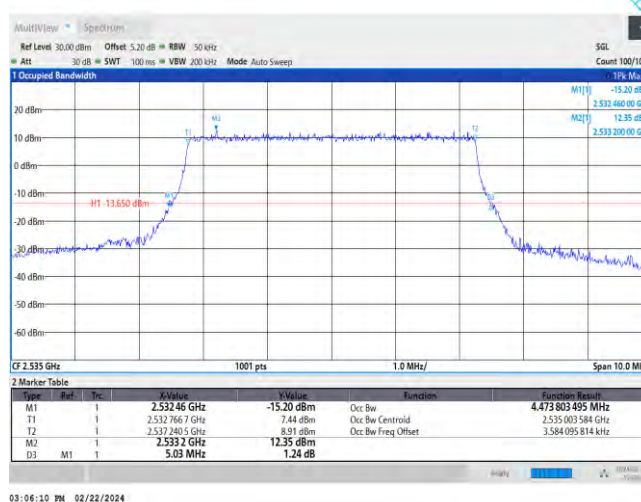


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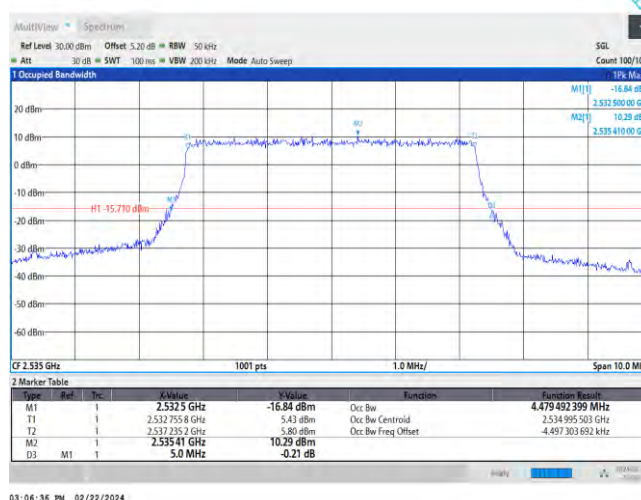
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### Band7-5MHz-64QAM-21100-25RB#0



### Band7-5MHz-256QAM-21100-25RB#0



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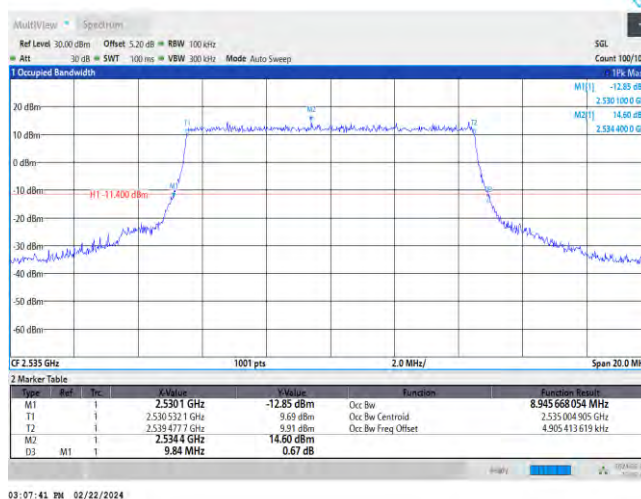
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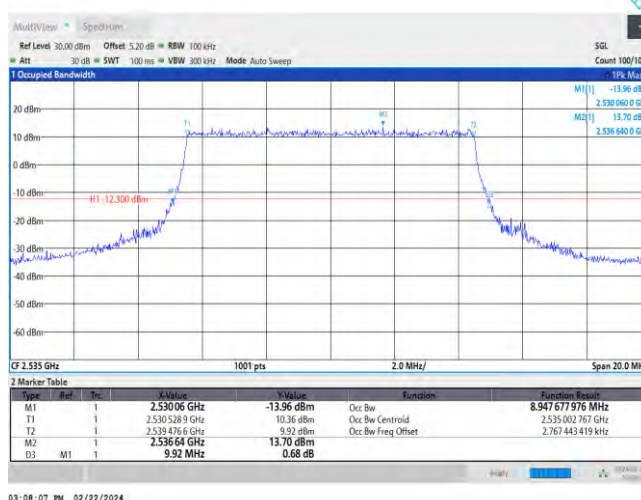
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### Band7-10MHz-QPSK-21100-50RB#0



### Band7-10MHz-16QAM-21100-50RB#0



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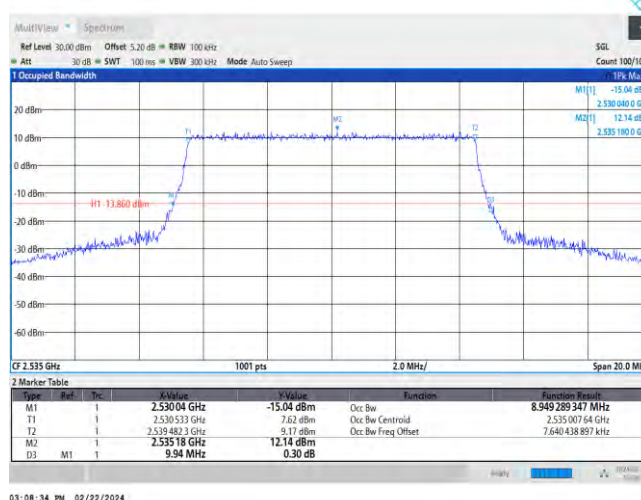
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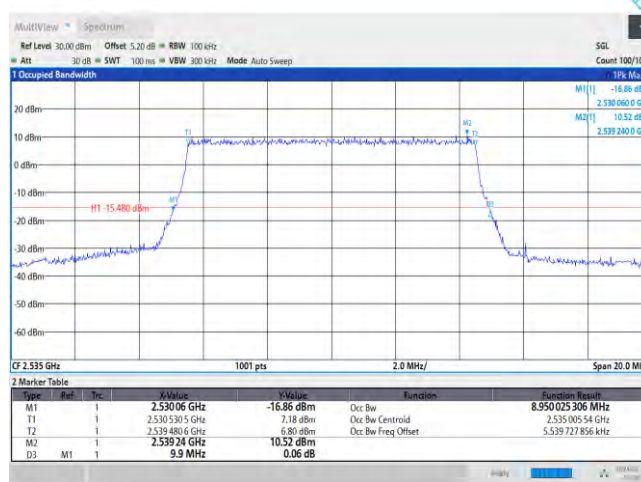
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## Band7-10MHz-256QAM-21100-50RB#0



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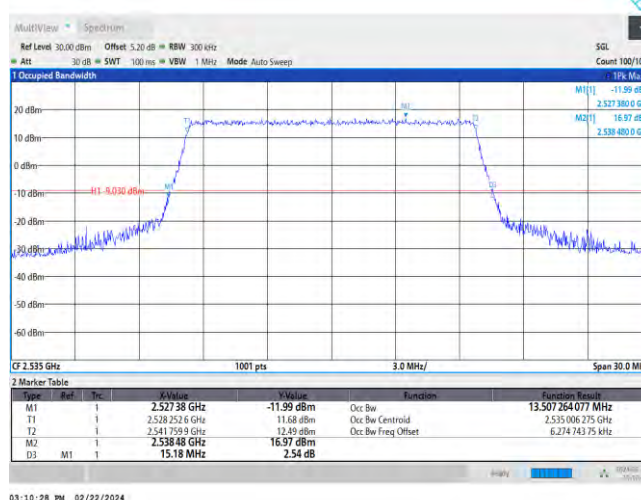


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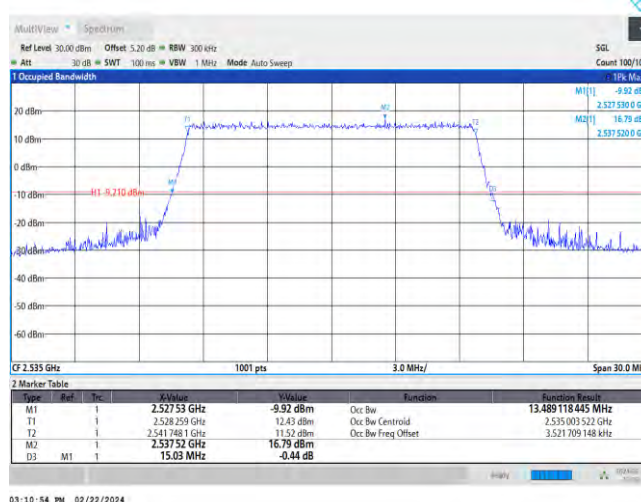
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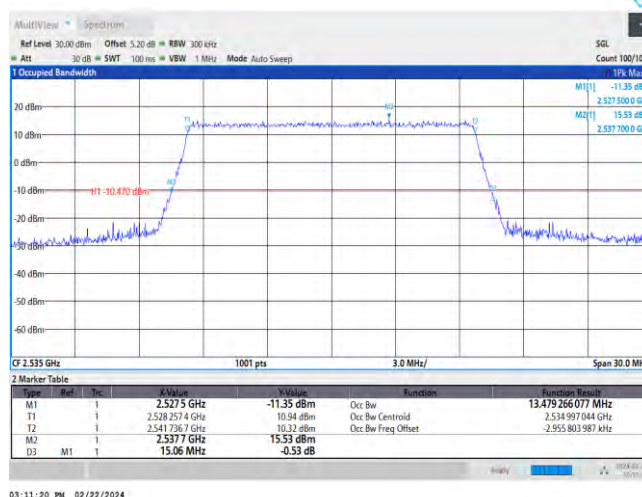
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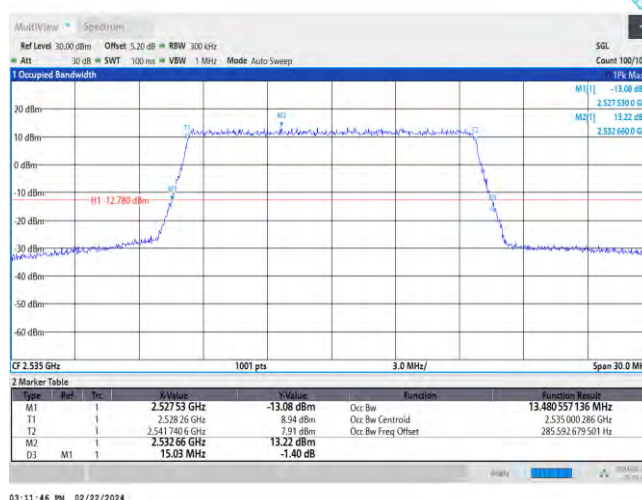
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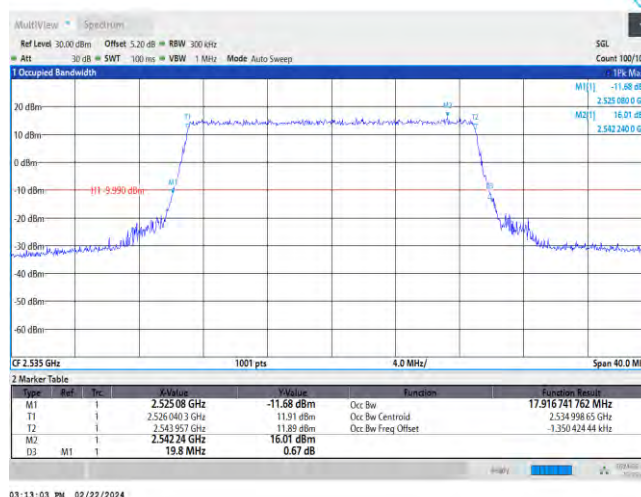
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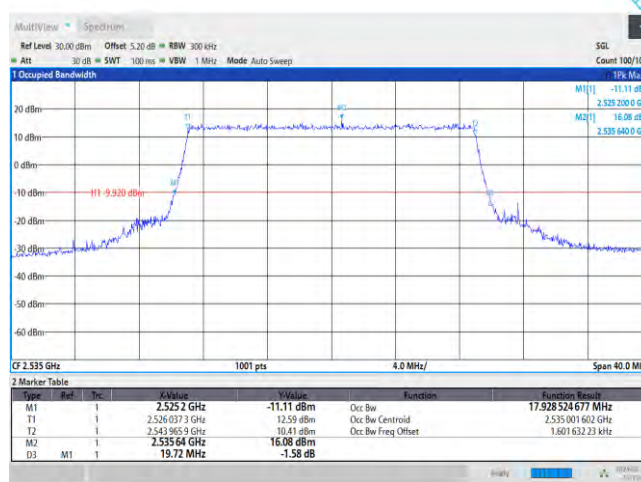
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## Band7-20MHz-16QAM-21100-100RB#0



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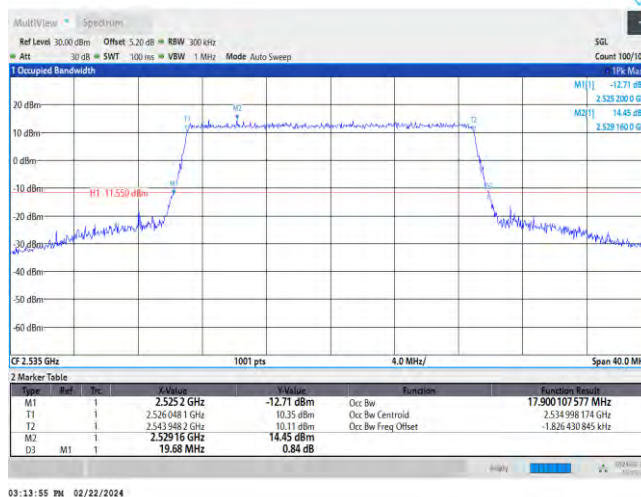


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### Band7-20MHz-64QAM-21100-100RB#0



### Band7-20MHz-256QAM-21100-100RB#0



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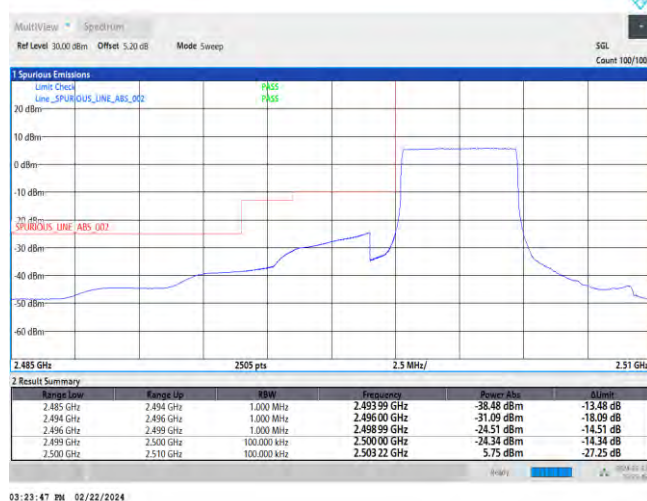
### Band Edge

### Test Graphs

Band7-5MHz-QPSK-20775-1RB#0



Band7-5MHz-QPSK-20775-25RB#0



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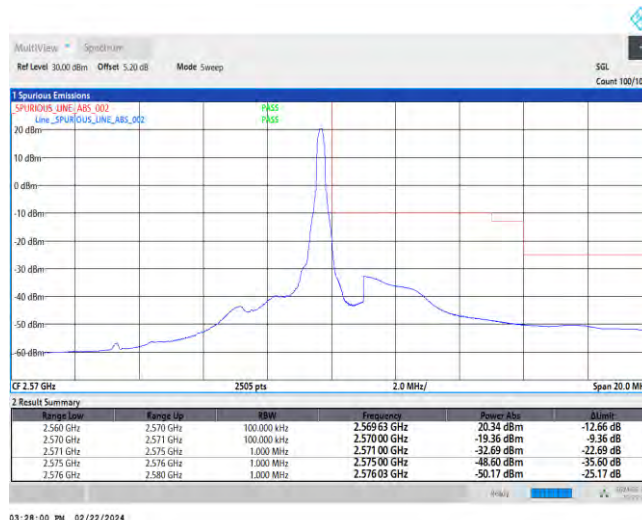
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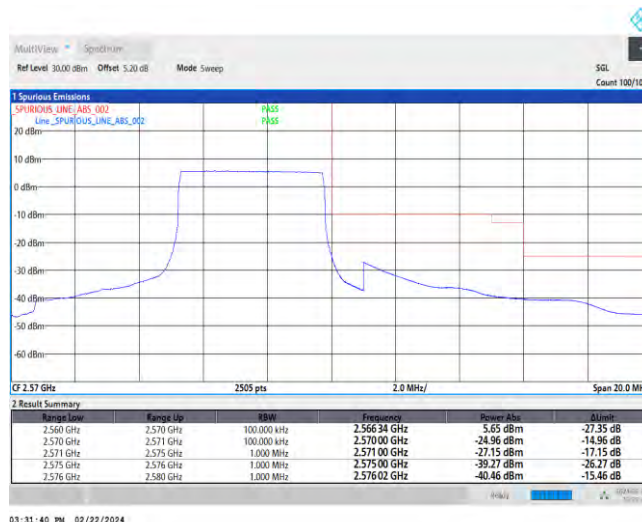
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### Band7-5MHz-QPSK-21425-1RB#24



### Band7-5MHz-QPSK-21425-25RB#0



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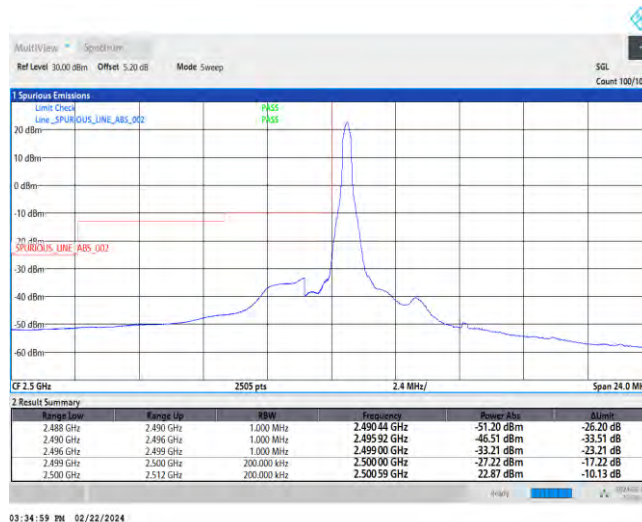


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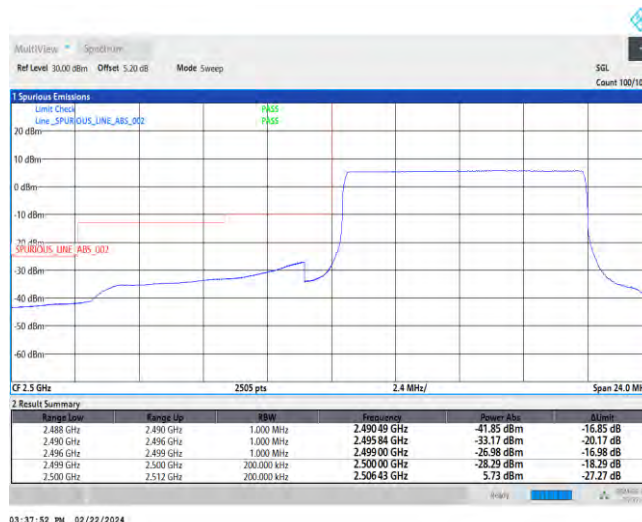
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## Band7-10MHz-QPSK-20800-1RB#0



## Band7-10MHz-QPSK-20800-50RB#0



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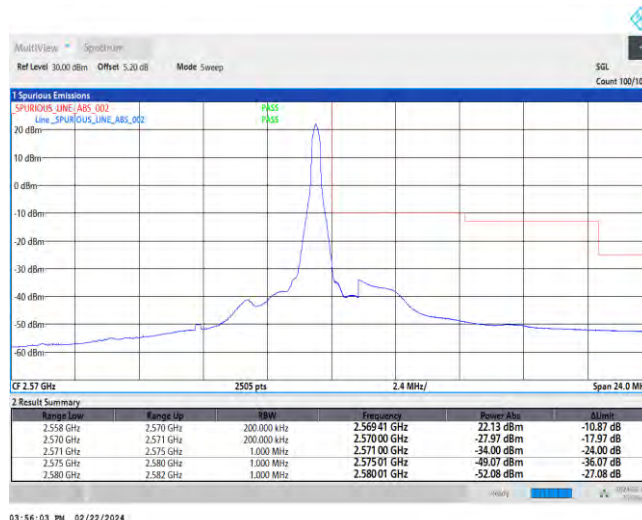
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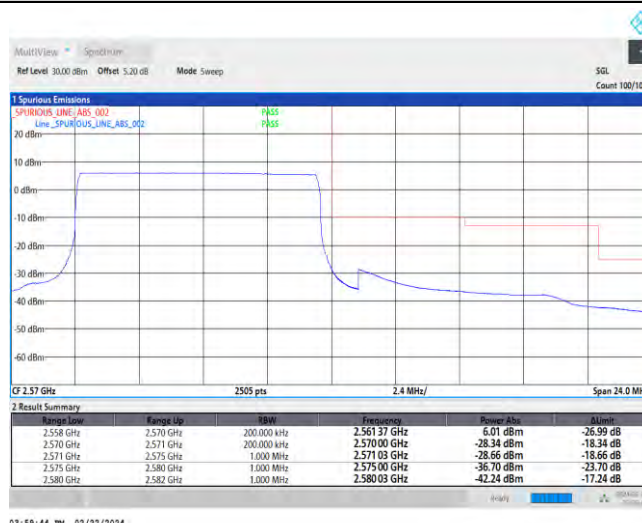
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### Band7-10MHz-QPSK-21400-1RB#49



### Band7-10MHz-QPSK-21400-50RB#0



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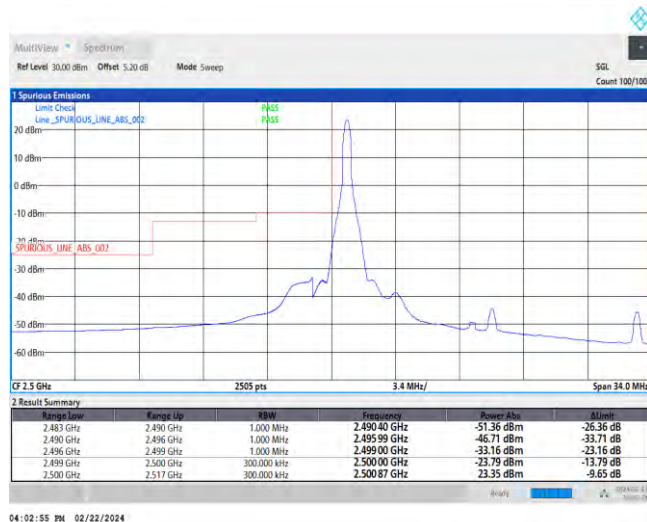
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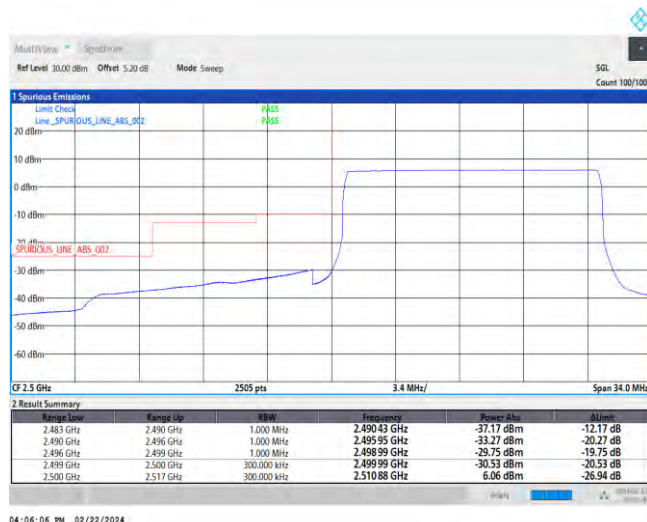
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### Band7-15MHz-QPSK-20825-1RB#0



### Band7-15MHz-QPSK-20825-75RB#0



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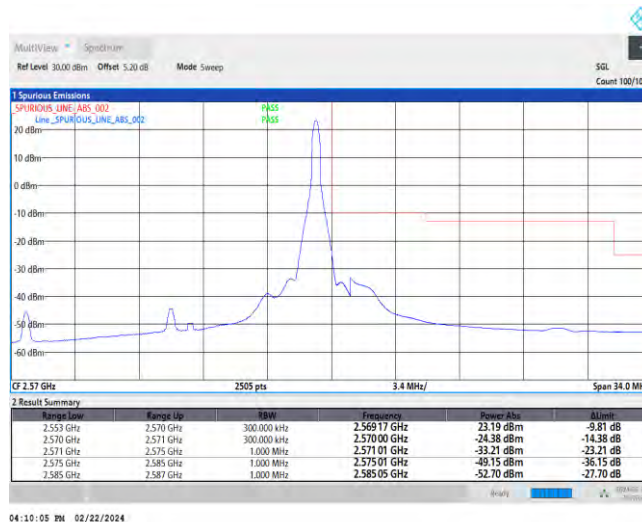


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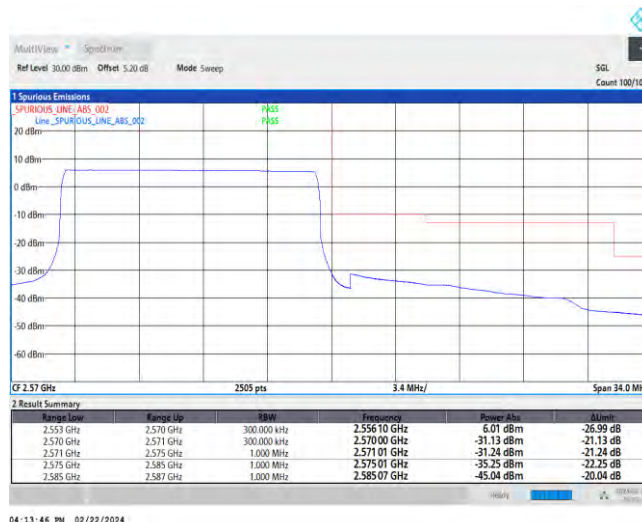
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### Band7-15MHz-QPSK-21375-75RB#0



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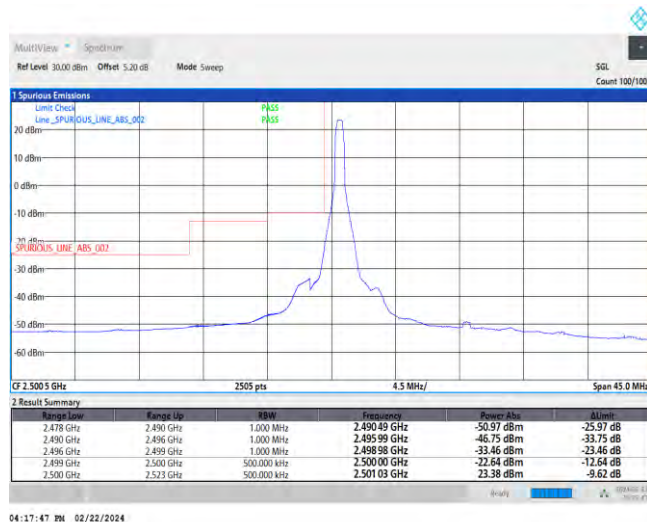
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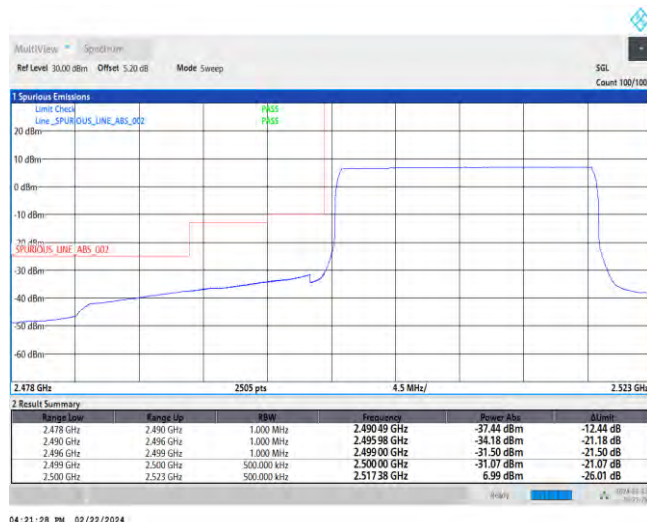
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### Band7-20MHz-QPSK-20850-1RB#0



### Band7-20MHz-QPSK-20850-100RB#0



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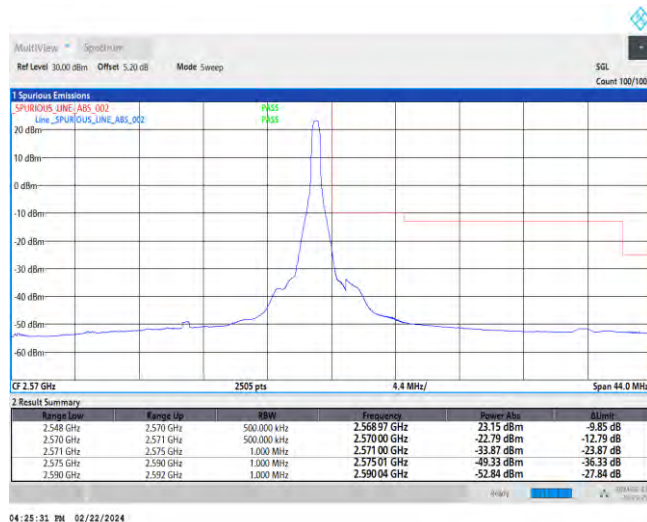
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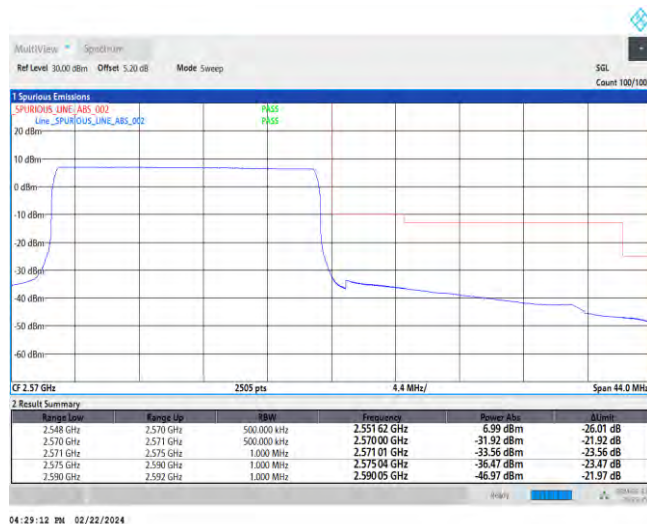
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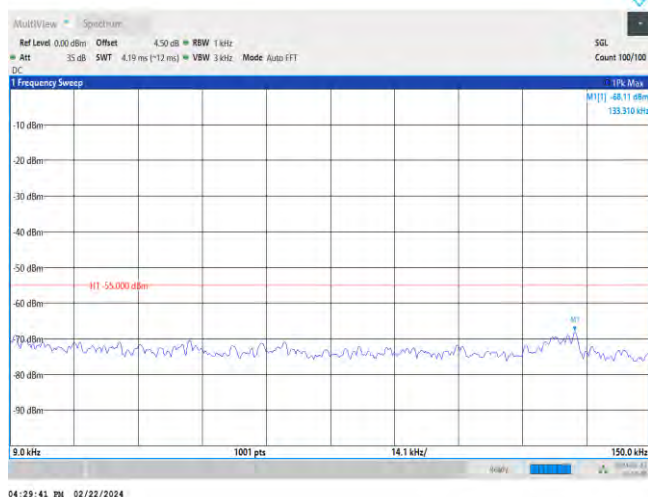


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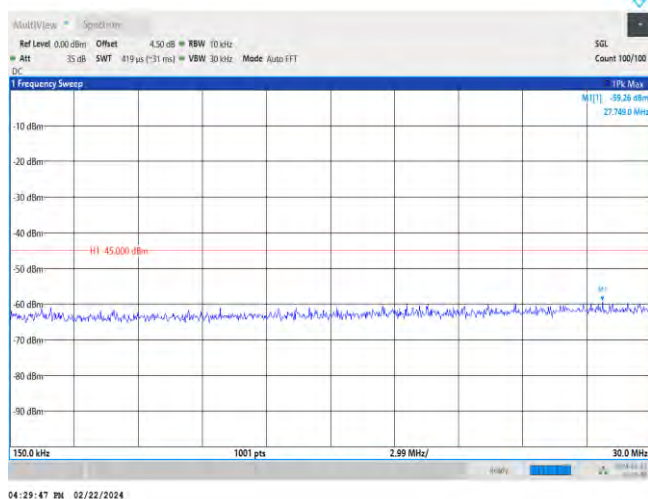
### Conducted Spurious Emission

#### Test Graphs

Band7-20MHz-QPSK-20850-1RB#0-Range1:0.009~0.15MHz



Band7-20MHz-QPSK-20850-1RB#0-Range2:0.15~30MHz



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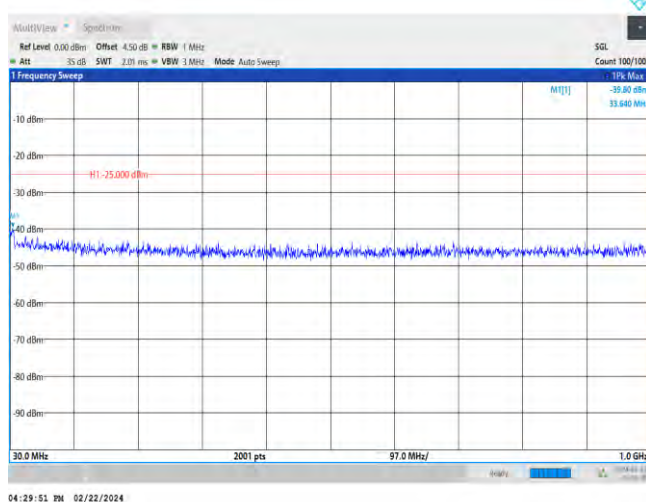
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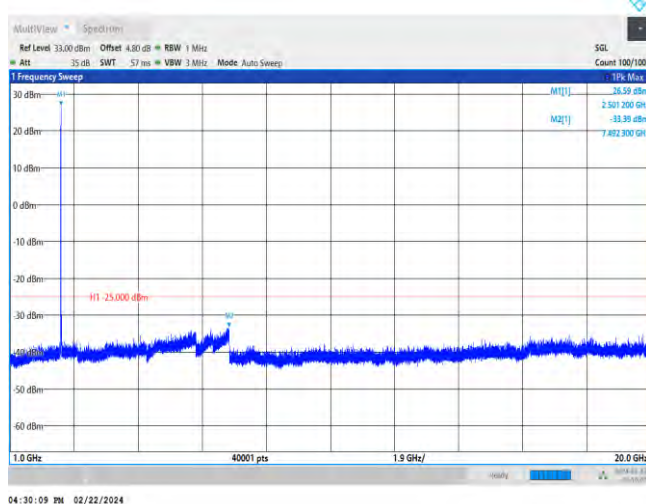
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### Band7-20MHz-QPSK-20850-1RB#0-Range3:30~1000MHz



### Band7-20MHz-QPSK-20850-1RB#0-Range4:1000~20000MHz



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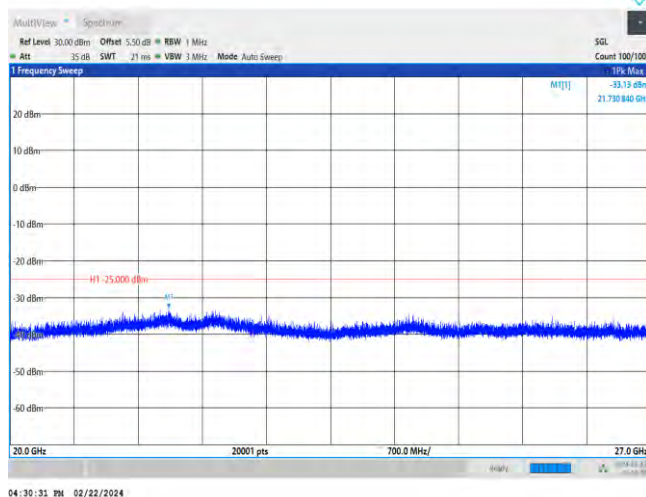
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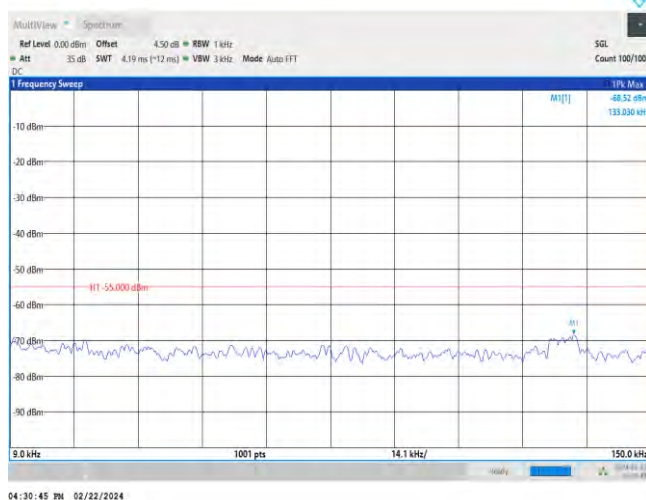
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### Band7-20MHz-QPSK-20850-1RB#0-Range5:20000~27000MHz



### Band7-20MHz-QPSK-21100-1RB#0-Range1:0.009~0.15MHz



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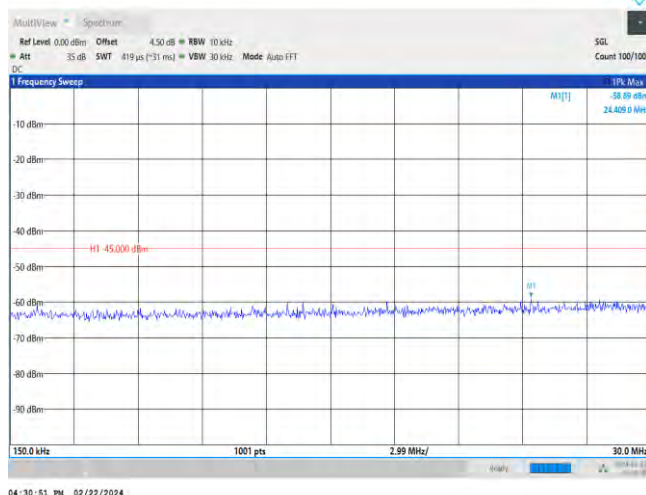


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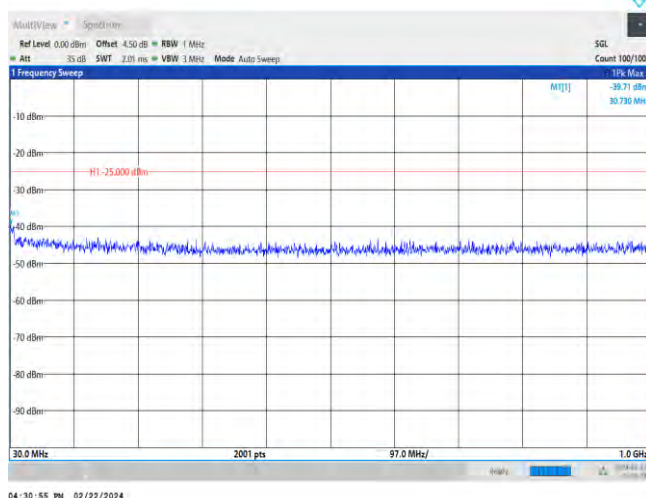
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### Band7-20MHz-QPSK-21100-1RB#0-Range2:0.15~30MHz



### Band7-20MHz-QPSK-21100-1RB#0-Range3:30~1000MHz



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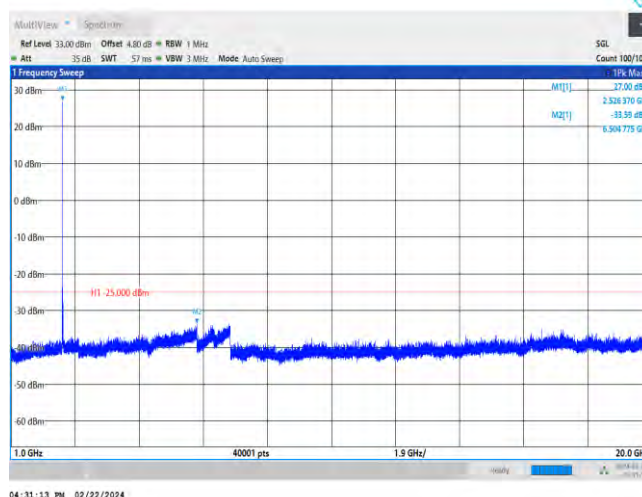
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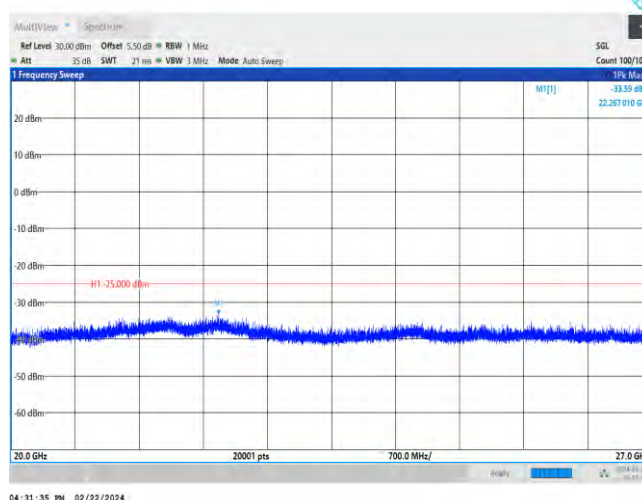
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### Band7-20MHz-QPSK-21100-1RB#0-Range4:1000~20000MHz



### Band7-20MHz-QPSK-21100-1RB#0-Range5:20000~27000MHz



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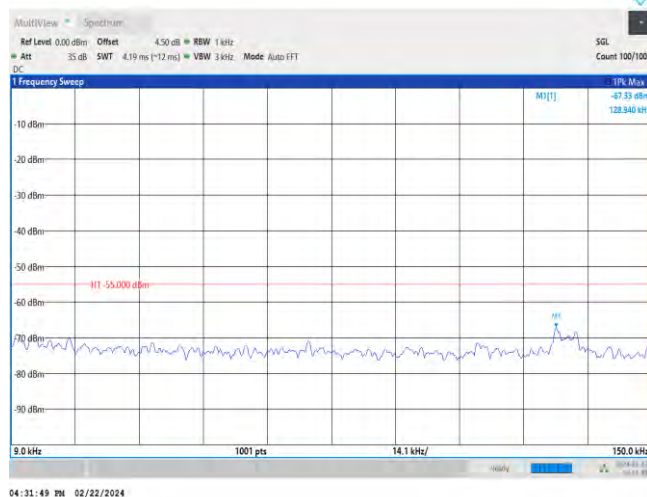
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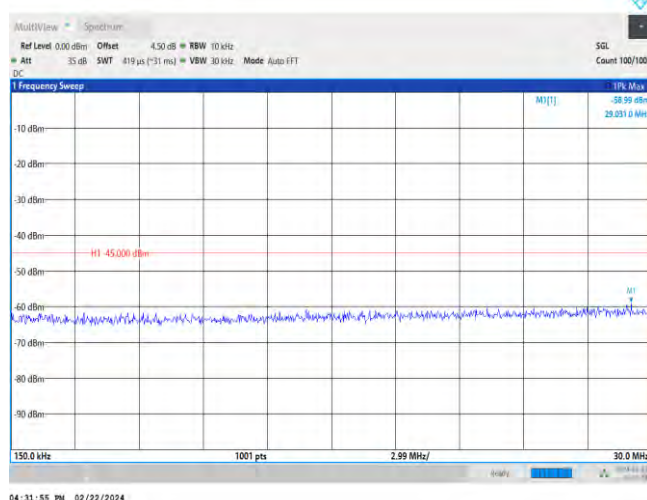
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### Band7-20MHz-QPSK-21350-1RB#0-Range1:0.009~0.15MHz



### Band7-20MHz-QPSK-21350-1RB#0-Range2:0.15~30MHz



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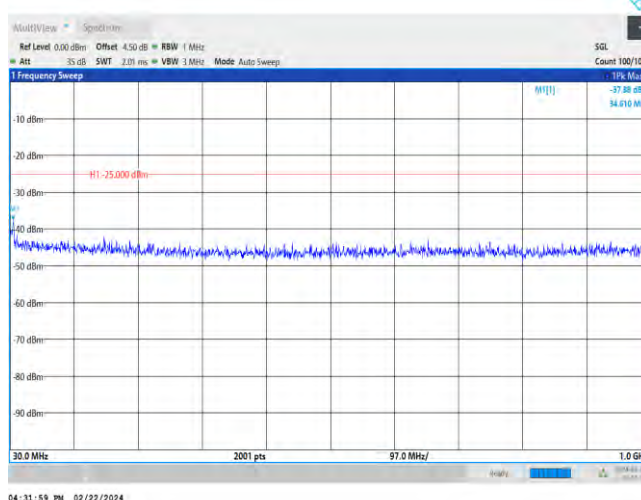


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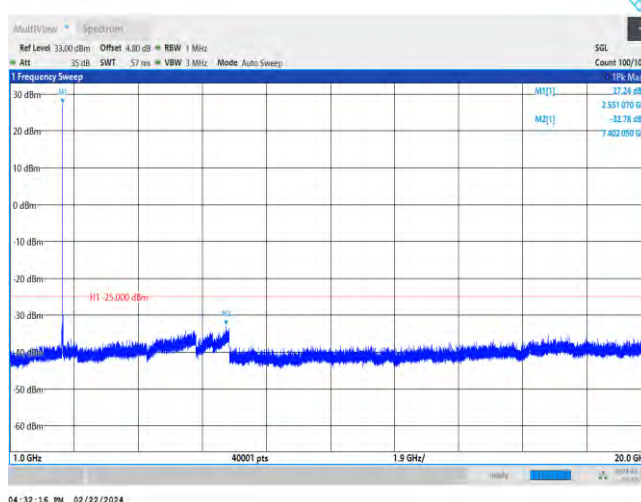
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### Band7-20MHz-QPSK-21350-1RB#0-Range3:30~1000MHz



### Band7-20MHz-QPSK-21350-1RB#0-Range4:1000~20000MHz



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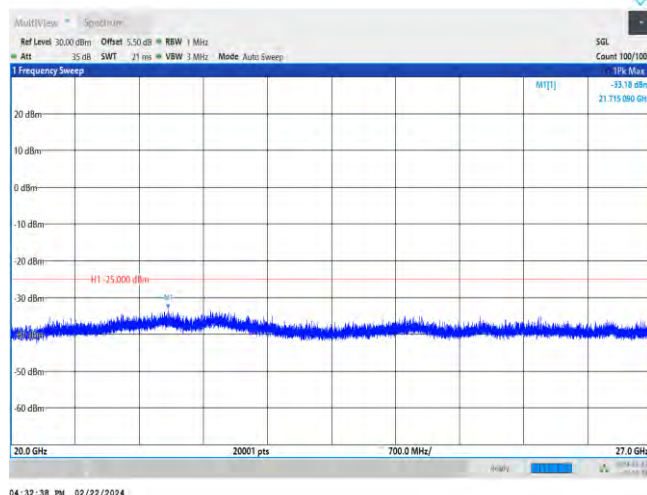
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### Band7-20MHz-QPSK-21350-1RB#0-Range5:20000~27000MHz



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## Field Strength of Spurious Radiation

**Test Band = LTE Band7**
**Test Channel = Low**

| 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               | 1452.5         | 35.12             | -19.65         | 25.28    | -54.51         | -25.00         | 29.51          | Horizontal |
| 2               | 5002           | 51.56             | -42.72         | 31.22    | -55.20         | -25.00         | 30.20          | Horizontal |
| 3               | 7408           | 44.79             | -38.28         | 36.72    | -52.03         | -25.00         | 27.03          | Horizontal |
| 4               | 9904.5         | 42.78             | -35.08         | 38.60    | -48.96         | -25.00         | 23.96          | Horizontal |
| 5               | 13570.5        | 43.38             | -37.88         | 40.04    | -49.72         | -25.00         | 24.72          | Horizontal |
| 6               | 17999.5        | 41.25             | -43.04         | 48.19    | -48.86         | -25.00         | 23.86          | 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               | 1643.5         | 35.27             | -19.06         | 25.45    | -53.60         | -25.00         | 28.60          | Vertical |
| 2               | 5002           | 58.94             | -42.72         | 31.22    | -47.82         | -25.00         | 22.82          | Vertical |
| 3               | 7503.5         | 50.65             | -38.31         | 36.87    | -46.05         | -25.00         | 21.05          | Vertical |
| 4               | 11018.5        | 43.05             | -37.09         | 40.12    | -49.18         | -25.00         | 24.18          | Vertical |
| 5               | 13628          | 43.34             | -37.89         | 40.13    | -49.68         | -25.00         | 24.68          | Vertical |
| 6               | 17990          | 41.60             | -43.12         | 48.02    | -48.76         | -25.00         | 23.76          | Vertical |



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**Test Band = LTE Band7**
**Test Channel = Mid**

| 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               | 1449.5         | 35.06             | -19.64         | 25.30    | -54.54         | -25.00         | 29.54          | Horizontal |
| 2               | 5052           | 51.61             | -42.62         | 31.60    | -54.67         | -25.00         | 29.67          | Horizontal |
| 3               | 7506           | 44.27             | -38.32         | 36.84    | -52.47         | -25.00         | 27.47          | Horizontal |
| 4               | 9869           | 42.99             | -35.20         | 38.35    | -49.12         | -25.00         | 24.12          | Horizontal |
| 5               | 13555.5        | 43.92             | -37.91         | 40.01    | -49.24         | -25.00         | 24.24          | Horizontal |
| 6               | 17995.5        | 42.01             | -43.08         | 48.12    | -48.21         | -25.00         | 23.21          | 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               | 1595.5         | 35.36             | -19.28         | 25.02    | -54.16         | -25.00         | 29.16          | Vertical |
| 2               | 5052           | 59.49             | -42.62         | 31.60    | -46.79         | -25.00         | 21.79          | Vertical |
| 3               | 7578.5         | 49.68             | -38.70         | 36.63    | -47.65         | -25.00         | 22.65          | Vertical |
| 4               | 9900.5         | 42.93             | -34.97         | 38.60    | -48.70         | -25.00         | 23.70          | Vertical |
| 5               | 13578.5        | 43.35             | -37.87         | 40.06    | -49.72         | -25.00         | 24.72          | Vertical |
| 6               | 18000          | 41.18             | -43.04         | 48.20    | -48.92         | -25.00         | 23.92          | Vertical |



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**Test Band = LTE Band7**
**Test Channel = High**

| 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               | 1338.5         | 35.13             | -20.19         | 24.99    | -55.33         | -25.00         | 30.33          | Horizontal |
| 2               | 5102           | 51.51             | -42.52         | 31.51    | -54.76         | -25.00         | 29.76          | Horizontal |
| 3               | 6808.5         | 45.13             | -39.48         | 35.43    | -54.18         | -25.00         | 29.18          | Horizontal |
| 4               | 9887           | 42.72             | -35.06         | 38.50    | -49.10         | -25.00         | 24.10          | Horizontal |
| 5               | 13638.5        | 43.18             | -37.91         | 40.14    | -49.85         | -25.00         | 24.85          | Horizontal |
| 6               | 17999.5        | 41.32             | -43.04         | 48.19    | -48.79         | -25.00         | 23.79          | 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               | 1220.5         | 35.75             | -20.41         | 24.56    | -55.36         | -25.00         | 30.36          | Vertical |
| 2               | 5102           | 59.04             | -42.52         | 31.51    | -47.23         | -25.00         | 22.23          | Vertical |
| 3               | 7653.5         | 51.19             | -38.14         | 36.61    | -45.60         | -25.00         | 20.60          | Vertical |
| 4               | 9905           | 42.45             | -35.09         | 38.61    | -49.29         | -25.00         | 24.29          | Vertical |
| 5               | 13581          | 43.32             | -37.87         | 40.06    | -49.75         | -25.00         | 24.75          | Vertical |
| 6               | 16396.5        | 41.96             | -34.84         | 38.79    | -49.35         | -25.00         | 24.35          | Vertical |



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Test Band = LTE 7A\_12A

Test Channel = Low

## Final Data List

| NO. | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
|-----|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|------------|
| 1   | 3734.5             | 44.06             | -45.64         | 28.98    | -67.87         | -25.00         | 42.87          | Horizontal |
| 2   | 4804               | 44.37             | -45.54         | 31.09    | -65.34         | -25.00         | 40.34          | Horizontal |
| 3   | 5981.5             | 43.74             | -44.86         | 32.40    | -63.98         | -25.00         | 38.98          | Horizontal |
| 4   | 7176               | 43.47             | -43.61         | 35.49    | -59.91         | -25.00         | 34.91          | Horizontal |
| 5   | 8375               | 41.66             | -41.59         | 36.88    | -58.32         | -25.00         | 33.32          | Horizontal |
| 6   | 10670              | 37.46             | -38.06         | 38.57    | -57.29         | -25.00         | 32.29          | Horizontal |

## Final Data List

| NO. | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
|-----|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------|
| 1   | 3982.5             | 44.70             | -46.08         | 29.37    | -67.27         | -25.00         | 42.27          | Vertical |
| 2   | 4887.5             | 44.35             | -45.53         | 31.22    | -65.22         | -25.00         | 40.22          | Vertical |
| 3   | 6039.5             | 44.05             | -44.68         | 32.53    | -63.36         | -25.00         | 38.36          | Vertical |
| 4   | 7128               | 42.74             | -43.99         | 35.36    | -61.15         | -25.00         | 36.15          | Vertical |
| 5   | 8746.5             | 42.03             | -41.49         | 36.65    | -58.06         | -25.00         | 33.06          | Vertical |
| 6   | 10903.5            | 36.77             | -37.81         | 38.59    | -57.71         | -25.00         | 32.71          | Vertical |



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Test Band = LTE 7A\_12A

Test Channel = Mid

## Final Data List

| NO. | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
|-----|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|------------|
| 1   | 3852               | 44.65             | -46.11         | 29.16    | -67.55         | -25.00         | 42.55          | Horizontal |
| 2   | 4540               | 44.40             | -45.69         | 30.66    | -65.89         | -25.00         | 40.89          | Horizontal |
| 3   | 5834               | 43.91             | -44.82         | 32.37    | -63.81         | -25.00         | 38.81          | Horizontal |
| 4   | 7207               | 42.61             | -43.44         | 35.58    | -60.51         | -25.00         | 35.51          | Horizontal |
| 5   | 8894.5             | 41.30             | -41.24         | 36.56    | -58.64         | -25.00         | 33.64          | Horizontal |
| 6   | 10120              | 38.26             | -39.20         | 38.51    | -57.68         | -25.00         | 32.68          | Horizontal |

## Final Data List

| NO. | Frequency<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
|-----|--------------------|-------------------|----------------|----------|----------------|----------------|----------------|----------|
| 1   | 4126               | 43.71             | -45.76         | 29.70    | -67.61         | -25.00         | 42.61          | Vertical |
| 2   | 5243.5             | 43.79             | -45.20         | 31.84    | -64.83         | -25.00         | 39.83          | Vertical |
| 3   | 6420               | 43.15             | -44.45         | 33.83    | -62.73         | -25.00         | 37.73          | Vertical |
| 4   | 7690.5             | 42.30             | -43.10         | 36.67    | -59.40         | -25.00         | 34.40          | Vertical |
| 5   | 9821.5             | 38.64             | -39.45         | 38.14    | -57.92         | -25.00         | 32.92          | Vertical |
| 6   | 12114              | 37.05             | -37.36         | 39.13    | -56.44         | -25.00         | 31.44          | Vertical |



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**Test Band = LTE 7A\_12A**
**Test Channel = High**

| Final Data List |                 |                |             |          |             |             |             |            |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|------------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1               | 4399.5          | 44.53          | -45.82      | 30.36    | -66.19      | -25.00      | 41.19       | Horizontal |
| 2               | 6160            | 44.07          | -44.64      | 32.94    | -62.88      | -25.00      | 37.88       | Horizontal |
| 3               | 7948.5          | 42.30          | -42.59      | 37.03    | -58.52      | -25.00      | 33.52       | Horizontal |
| 4               | 9216            | 39.35          | -40.25      | 36.93    | -59.22      | -25.00      | 34.22       | Horizontal |
| 5               | 11252.5         | 36.65          | -37.41      | 38.73    | -57.29      | -25.00      | 32.29       | Horizontal |
| 6               | 13716.5         | 35.58          | -36.20      | 40.40    | -55.48      | -25.00      | 30.48       | Horizontal |

| Final Data List |                 |                |             |          |             |             |             |          |
|-----------------|-----------------|----------------|-------------|----------|-------------|-------------|-------------|----------|
| NO.             | Frequency [MHz] | Reading [dBμV] | Factor [dB] | AF[dB/m] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1               | 3582            | 44.91          | -46.15      | 28.73    | -67.77      | -25.00      | 42.77       | Vertical |
| 2               | 4722            | 44.15          | -45.59      | 30.96    | -65.74      | -25.00      | 40.74       | Vertical |
| 3               | 6186            | 43.73          | -44.72      | 33.03    | -63.21      | -25.00      | 38.21       | Vertical |
| 4               | 7557            | 42.01          | -43.02      | 36.48    | -59.79      | -25.00      | 34.79       | Vertical |
| 5               | 9824.5          | 38.89          | -39.44      | 38.15    | -57.66      | -25.00      | 32.66       | Vertical |
| 6               | 11958.5         | 36.50          | -37.41      | 39.08    | -57.09      | -25.00      | 32.09       | 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

2) All antennas of RSE are tested, and only the worst data is presented.



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## Frequency Stability

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|-------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0      | VL            | NT               | 0.00           | 0.000000        | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0      | VN            | NT               | -2.20          | -0.000868       | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0      | VH            | NT               | 0.80           | 0.000316        | PASS    |

| Band  | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
|-------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0      | NV            | -30              | -1.20          | -0.000473       | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0      | NV            | -20              | -0.10          | -0.000039       | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0      | NV            | -10              | -1.80          | -0.000710       | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0      | NV            | 0                | -0.20          | -0.000079       | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0      | NV            | 10               | -0.60          | -0.000237       | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0      | NV            | 20               | -0.20          | -0.000079       | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0      | NV            | 30               | -1.40          | -0.000552       | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0      | NV            | 40               | -1.30          | -0.000513       | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0      | NV            | 50               | -1.90          | -0.000750       | PASS    |

---End of Attachment---



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