



# Appendix B

## E-UTRA Band 7



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# 1 Effective (Isotropic) Radiated Power

## 1.1. Test Result

### Down Antenna:

| Band  | Bandwidth | Modulation | Channel | RB Config. | Result (dBm) | EIRP (dBm) | Limit (dBm) | Verdict |
|-------|-----------|------------|---------|------------|--------------|------------|-------------|---------|
| Band7 | 5MHz      | QPSK       | 20775   | 1RB#0      | 22.56        | 21.16      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 20775   | 1RB#12     | 22.54        | 21.14      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 20775   | 1RB#24     | 22.60        | 21.20      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 20775   | 12RB#0     | 21.62        | 20.22      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 20775   | 12RB#6     | 21.63        | 20.23      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 20775   | 12RB#13    | 21.54        | 20.14      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 20775   | 25RB#0     | 21.64        | 20.24      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 1RB#0      | 22.38        | 20.98      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 1RB#12     | 22.26        | 20.86      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 1RB#24     | 22.22        | 20.82      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 12RB#0     | 21.29        | 19.89      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 12RB#6     | 21.25        | 19.85      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 12RB#13    | 21.25        | 19.85      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 25RB#0     | 21.27        | 19.87      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 1RB#0      | 21.73        | 20.33      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 1RB#12     | 21.82        | 20.42      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 1RB#24     | 21.66        | 20.26      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 12RB#0     | 21.12        | 19.72      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 12RB#6     | 21.16        | 19.76      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 12RB#13    | 21.12        | 19.72      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 25RB#0     | 21.17        | 19.77      | 33.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 1RB#0      | 21.57        | 20.17      | 33.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 1RB#12     | 21.76        | 20.36      | 33.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 1RB#24     | 21.73        | 20.33      | 33.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 12RB#0     | 20.77        | 19.37      | 33.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 12RB#6     | 20.73        | 19.33      | 33.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 12RB#13    | 20.60        | 19.20      | 33.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 25RB#0     | 20.71        | 19.31      | 33.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21100   | 1RB#0      | 21.59        | 20.19      | 33.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21100   | 1RB#12     | 21.52        | 20.12      | 33.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21100   | 1RB#24     | 21.42        | 20.02      | 33.00       | PASS    |



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|       |       |       |       |         |       |       |       |      |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band7 | 5MHz  | 16QAM | 21100 | 12RB#0  | 20.31 | 18.91 | 33.00 | PASS |
| Band7 | 5MHz  | 16QAM | 21100 | 12RB#6  | 20.30 | 18.90 | 33.00 | PASS |
| Band7 | 5MHz  | 16QAM | 21100 | 12RB#13 | 20.26 | 18.86 | 33.00 | PASS |
| Band7 | 5MHz  | 16QAM | 21100 | 25RB#0  | 20.30 | 18.90 | 33.00 | PASS |
| Band7 | 5MHz  | 16QAM | 21425 | 1RB#0   | 21.02 | 19.62 | 33.00 | PASS |
| Band7 | 5MHz  | 16QAM | 21425 | 1RB#12  | 21.26 | 19.86 | 33.00 | PASS |
| Band7 | 5MHz  | 16QAM | 21425 | 1RB#24  | 20.75 | 19.35 | 33.00 | PASS |
| Band7 | 5MHz  | 16QAM | 21425 | 12RB#0  | 20.19 | 18.79 | 33.00 | PASS |
| Band7 | 5MHz  | 16QAM | 21425 | 12RB#6  | 20.18 | 18.78 | 33.00 | PASS |
| Band7 | 5MHz  | 16QAM | 21425 | 12RB#13 | 20.02 | 18.62 | 33.00 | PASS |
| Band7 | 5MHz  | 16QAM | 21425 | 25RB#0  | 20.15 | 18.75 | 33.00 | PASS |
| Band7 | 10MHz | QPSK  | 20800 | 1RB#0   | 22.73 | 21.33 | 33.00 | PASS |
| Band7 | 10MHz | QPSK  | 20800 | 1RB#24  | 22.47 | 21.07 | 33.00 | PASS |
| Band7 | 10MHz | QPSK  | 20800 | 1RB#49  | 22.51 | 21.11 | 33.00 | PASS |
| Band7 | 10MHz | QPSK  | 20800 | 25RB#0  | 21.56 | 20.16 | 33.00 | PASS |
| Band7 | 10MHz | QPSK  | 20800 | 25RB#12 | 21.64 | 20.24 | 33.00 | PASS |
| Band7 | 10MHz | QPSK  | 20800 | 25RB#25 | 21.66 | 20.26 | 33.00 | PASS |
| Band7 | 10MHz | QPSK  | 20800 | 50RB#0  | 21.54 | 20.14 | 33.00 | PASS |
| Band7 | 10MHz | QPSK  | 21100 | 1RB#0   | 22.10 | 20.70 | 33.00 | PASS |
| Band7 | 10MHz | QPSK  | 21100 | 1RB#24  | 22.30 | 20.90 | 33.00 | PASS |
| Band7 | 10MHz | QPSK  | 21100 | 1RB#49  | 22.18 | 20.78 | 33.00 | PASS |
| Band7 | 10MHz | QPSK  | 21100 | 25RB#0  | 21.33 | 19.93 | 33.00 | PASS |
| Band7 | 10MHz | QPSK  | 21100 | 25RB#12 | 21.28 | 19.88 | 33.00 | PASS |
| Band7 | 10MHz | QPSK  | 21100 | 25RB#25 | 21.27 | 19.87 | 33.00 | PASS |
| Band7 | 10MHz | QPSK  | 21100 | 50RB#0  | 21.26 | 19.86 | 33.00 | PASS |
| Band7 | 10MHz | QPSK  | 21400 | 1RB#0   | 21.69 | 20.29 | 33.00 | PASS |
| Band7 | 10MHz | QPSK  | 21400 | 1RB#24  | 21.71 | 20.31 | 33.00 | PASS |
| Band7 | 10MHz | QPSK  | 21400 | 1RB#49  | 21.56 | 20.16 | 33.00 | PASS |
| Band7 | 10MHz | QPSK  | 21400 | 25RB#0  | 21.21 | 19.81 | 33.00 | PASS |
| Band7 | 10MHz | QPSK  | 21400 | 25RB#12 | 21.22 | 19.82 | 33.00 | PASS |
| Band7 | 10MHz | QPSK  | 21400 | 25RB#25 | 21.23 | 19.83 | 33.00 | PASS |
| Band7 | 10MHz | QPSK  | 21400 | 50RB#0  | 21.13 | 19.73 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 1RB#0   | 22.20 | 20.80 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 1RB#24  | 22.06 | 20.66 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 1RB#49  | 21.74 | 20.34 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 25RB#0  | 20.59 | 19.19 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 25RB#12 | 20.65 | 19.25 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 25RB#25 | 20.57 | 19.17 | 33.00 | PASS |



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|       |       |       |       |         |       |       |       |      |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band7 | 10MHz | 16QAM | 20800 | 50RB#0  | 20.66 | 19.26 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 1RB#0   | 21.37 | 19.97 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 1RB#24  | 21.71 | 20.31 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 1RB#49  | 21.63 | 20.23 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 25RB#0  | 20.30 | 18.90 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 25RB#12 | 20.32 | 18.92 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 25RB#25 | 20.28 | 18.88 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 50RB#0  | 20.35 | 18.95 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 1RB#0   | 20.95 | 19.55 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 1RB#24  | 21.14 | 19.74 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 1RB#49  | 20.48 | 19.08 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 25RB#0  | 20.23 | 18.83 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 25RB#12 | 20.17 | 18.77 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 25RB#25 | 20.18 | 18.78 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 50RB#0  | 20.16 | 18.76 | 33.00 | PASS |
| Band7 | 15MHz | QPSK  | 20825 | 1RB#0   | 21.92 | 20.52 | 33.00 | PASS |
| Band7 | 15MHz | QPSK  | 20825 | 1RB#38  | 22.27 | 20.87 | 33.00 | PASS |
| Band7 | 15MHz | QPSK  | 20825 | 1RB#74  | 21.97 | 20.57 | 33.00 | PASS |
| Band7 | 15MHz | QPSK  | 20825 | 38RB#0  | 21.41 | 20.01 | 33.00 | PASS |
| Band7 | 15MHz | QPSK  | 20825 | 38RB#18 | 21.52 | 20.12 | 33.00 | PASS |
| Band7 | 15MHz | QPSK  | 20825 | 38RB#37 | 21.60 | 20.20 | 33.00 | PASS |
| Band7 | 15MHz | QPSK  | 20825 | 75RB#0  | 21.53 | 20.13 | 33.00 | PASS |
| Band7 | 15MHz | QPSK  | 21100 | 1RB#0   | 21.80 | 20.40 | 33.00 | PASS |
| Band7 | 15MHz | QPSK  | 21100 | 1RB#38  | 22.23 | 20.83 | 33.00 | PASS |
| Band7 | 15MHz | QPSK  | 21100 | 1RB#74  | 21.92 | 20.52 | 33.00 | PASS |
| Band7 | 15MHz | QPSK  | 21100 | 38RB#0  | 21.31 | 19.91 | 33.00 | PASS |
| Band7 | 15MHz | QPSK  | 21100 | 38RB#18 | 21.31 | 19.91 | 33.00 | PASS |
| Band7 | 15MHz | QPSK  | 21100 | 38RB#37 | 21.36 | 19.96 | 33.00 | PASS |
| Band7 | 15MHz | QPSK  | 21100 | 75RB#0  | 21.36 | 19.96 | 33.00 | PASS |
| Band7 | 15MHz | QPSK  | 21375 | 1RB#0   | 21.62 | 20.22 | 33.00 | PASS |
| Band7 | 15MHz | QPSK  | 21375 | 1RB#38  | 21.73 | 20.33 | 33.00 | PASS |
| Band7 | 15MHz | QPSK  | 21375 | 1RB#74  | 21.77 | 20.37 | 33.00 | PASS |
| Band7 | 15MHz | QPSK  | 21375 | 38RB#0  | 21.19 | 19.79 | 33.00 | PASS |
| Band7 | 15MHz | QPSK  | 21375 | 38RB#18 | 21.32 | 19.92 | 33.00 | PASS |
| Band7 | 15MHz | QPSK  | 21375 | 38RB#37 | 21.29 | 19.89 | 33.00 | PASS |
| Band7 | 15MHz | QPSK  | 21375 | 75RB#0  | 21.29 | 19.89 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 1RB#0   | 21.31 | 19.91 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 1RB#38  | 21.23 | 19.83 | 33.00 | PASS |



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|       |       |       |       |         |       |       |       |      |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band7 | 15MHz | 16QAM | 20825 | 1RB#74  | 21.69 | 20.29 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 38RB#0  | 20.44 | 19.04 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 38RB#18 | 20.58 | 19.18 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 38RB#37 | 20.53 | 19.13 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 75RB#0  | 20.59 | 19.19 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 1RB#0   | 21.10 | 19.70 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 1RB#38  | 21.75 | 20.35 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 1RB#74  | 20.92 | 19.52 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 38RB#0  | 20.28 | 18.88 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 38RB#18 | 20.29 | 18.89 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 38RB#37 | 20.34 | 18.94 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 75RB#0  | 20.33 | 18.93 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 1RB#0   | 20.93 | 19.53 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 1RB#38  | 20.93 | 19.53 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 1RB#74  | 21.21 | 19.81 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 38RB#0  | 20.08 | 18.68 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 38RB#18 | 20.20 | 18.80 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 38RB#37 | 20.27 | 18.87 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 75RB#0  | 20.25 | 18.85 | 33.00 | PASS |
| Band7 | 20MHz | QPSK  | 20850 | 1RB#0   | 22.12 | 20.72 | 33.00 | PASS |
| Band7 | 20MHz | QPSK  | 20850 | 1RB#49  | 22.39 | 20.99 | 33.00 | PASS |
| Band7 | 20MHz | QPSK  | 20850 | 1RB#99  | 22.10 | 20.70 | 33.00 | PASS |
| Band7 | 20MHz | QPSK  | 20850 | 50RB#0  | 21.15 | 19.75 | 33.00 | PASS |
| Band7 | 20MHz | QPSK  | 20850 | 50RB#25 | 21.28 | 19.88 | 33.00 | PASS |
| Band7 | 20MHz | QPSK  | 20850 | 50RB#50 | 21.36 | 19.96 | 33.00 | PASS |
| Band7 | 20MHz | QPSK  | 20850 | 100RB#0 | 21.56 | 20.16 | 33.00 | PASS |
| Band7 | 20MHz | QPSK  | 21100 | 1RB#0   | 21.84 | 20.44 | 33.00 | PASS |
| Band7 | 20MHz | QPSK  | 21100 | 1RB#49  | 22.17 | 20.77 | 33.00 | PASS |
| Band7 | 20MHz | QPSK  | 21100 | 1RB#99  | 22.29 | 20.89 | 33.00 | PASS |
| Band7 | 20MHz | QPSK  | 21100 | 50RB#0  | 21.13 | 19.73 | 33.00 | PASS |
| Band7 | 20MHz | QPSK  | 21100 | 50RB#25 | 21.24 | 19.84 | 33.00 | PASS |
| Band7 | 20MHz | QPSK  | 21100 | 50RB#50 | 21.28 | 19.88 | 33.00 | PASS |
| Band7 | 20MHz | QPSK  | 21100 | 100RB#0 | 21.20 | 19.80 | 33.00 | PASS |
| Band7 | 20MHz | QPSK  | 21350 | 1RB#0   | 21.79 | 20.39 | 33.00 | PASS |
| Band7 | 20MHz | QPSK  | 21350 | 1RB#49  | 21.68 | 20.28 | 33.00 | PASS |
| Band7 | 20MHz | QPSK  | 21350 | 1RB#99  | 21.48 | 20.08 | 33.00 | PASS |
| Band7 | 20MHz | QPSK  | 21350 | 50RB#0  | 21.08 | 19.68 | 33.00 | PASS |
| Band7 | 20MHz | QPSK  | 21350 | 50RB#25 | 21.23 | 19.83 | 33.00 | PASS |



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|       |       |       |       |         |       |       |       |      |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band7 | 20MHz | QPSK  | 21350 | 50RB#50 | 21.28 | 19.88 | 33.00 | PASS |
| Band7 | 20MHz | QPSK  | 21350 | 100RB#0 | 21.24 | 19.84 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 1RB#0   | 21.40 | 20.00 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 1RB#49  | 21.54 | 20.14 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 1RB#99  | 21.70 | 20.30 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 50RB#0  | 20.24 | 18.84 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 50RB#25 | 20.26 | 18.86 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 50RB#50 | 20.42 | 19.02 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | 20.48 | 19.08 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 1RB#0   | 21.02 | 19.62 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 1RB#49  | 21.61 | 20.21 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 1RB#99  | 21.65 | 20.25 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 50RB#0  | 20.09 | 18.69 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 50RB#25 | 20.25 | 18.85 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 50RB#50 | 20.32 | 18.92 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | 20.26 | 18.86 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 1RB#0   | 21.02 | 19.62 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 1RB#49  | 20.86 | 19.46 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 1RB#99  | 20.68 | 19.28 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 50RB#0  | 19.95 | 18.55 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 50RB#25 | 20.10 | 18.70 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 50RB#50 | 20.23 | 18.83 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | 20.18 | 18.78 | 33.00 | PASS |



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**Up Antenna:**

| Band  | Bandwidth | Modulation | Channel | RB Config. | Result (dBm) | EIRP (dBm) | Limit (dBm) | Verdict |
|-------|-----------|------------|---------|------------|--------------|------------|-------------|---------|
| Band7 | 5MHz      | QPSK       | 20775   | 1RB#0      | 19.97        | 18.37      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 20775   | 1RB#12     | 19.83        | 18.23      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 20775   | 1RB#24     | 19.76        | 18.16      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 20775   | 12RB#0     | 19.82        | 18.22      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 20775   | 12RB#6     | 19.77        | 18.17      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 20775   | 12RB#13    | 19.74        | 18.14      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 20775   | 25RB#0     | 19.74        | 18.14      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 1RB#0      | 19.65        | 18.05      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 1RB#12     | 19.55        | 17.95      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 1RB#24     | 19.50        | 17.90      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 12RB#0     | 19.50        | 17.90      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 12RB#6     | 19.46        | 17.86      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 12RB#13    | 19.60        | 18.00      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 25RB#0     | 19.44        | 17.84      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 1RB#0      | 19.57        | 17.97      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 1RB#12     | 19.43        | 17.83      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 1RB#24     | 19.42        | 17.82      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 12RB#0     | 19.36        | 17.76      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 12RB#6     | 19.25        | 17.65      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 12RB#13    | 19.40        | 17.80      | 33.00       | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 25RB#0     | 19.42        | 17.82      | 33.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 1RB#0      | 20.39        | 18.79      | 33.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 1RB#12     | 20.27        | 18.67      | 33.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 1RB#24     | 19.66        | 18.06      | 33.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 12RB#0     | 19.75        | 18.15      | 33.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 12RB#6     | 19.89        | 18.29      | 33.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 12RB#13    | 19.77        | 18.17      | 33.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 25RB#0     | 19.80        | 18.20      | 33.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21100   | 1RB#0      | 19.69        | 18.09      | 33.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21100   | 1RB#12     | 19.63        | 18.03      | 33.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21100   | 1RB#24     | 19.77        | 18.17      | 33.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21100   | 12RB#0     | 19.52        | 17.92      | 33.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21100   | 12RB#6     | 19.54        | 17.94      | 33.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21100   | 12RB#13    | 19.45        | 17.85      | 33.00       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21100   | 25RB#0     | 19.48        | 17.88      | 33.00       | PASS    |



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|       |       |       |       |         |       |       |       |      |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band7 | 5MHz  | 16QAM | 21425 | 1RB#0   | 19.55 | 17.95 | 33.00 | PASS |
| Band7 | 5MHz  | 16QAM | 21425 | 1RB#12  | 19.29 | 17.69 | 33.00 | PASS |
| Band7 | 5MHz  | 16QAM | 21425 | 1RB#24  | 19.84 | 18.24 | 33.00 | PASS |
| Band7 | 5MHz  | 16QAM | 21425 | 12RB#0  | 19.46 | 17.86 | 33.00 | PASS |
| Band7 | 5MHz  | 16QAM | 21425 | 12RB#6  | 19.44 | 17.84 | 33.00 | PASS |
| Band7 | 5MHz  | 16QAM | 21425 | 12RB#13 | 19.29 | 17.69 | 33.00 | PASS |
| Band7 | 5MHz  | 16QAM | 21425 | 25RB#0  | 19.38 | 17.78 | 33.00 | PASS |
| Band7 | 10MHz | QPSK  | 20800 | 1RB#0   | 20.21 | 18.61 | 33.00 | PASS |
| Band7 | 10MHz | QPSK  | 20800 | 1RB#24  | 19.81 | 18.21 | 33.00 | PASS |
| Band7 | 10MHz | QPSK  | 20800 | 1RB#49  | 19.77 | 18.17 | 33.00 | PASS |
| Band7 | 10MHz | QPSK  | 20800 | 25RB#0  | 19.72 | 18.12 | 33.00 | PASS |
| Band7 | 10MHz | QPSK  | 20800 | 25RB#12 | 19.73 | 18.13 | 33.00 | PASS |
| Band7 | 10MHz | QPSK  | 20800 | 25RB#25 | 19.77 | 18.17 | 33.00 | PASS |
| Band7 | 10MHz | QPSK  | 20800 | 50RB#0  | 19.76 | 18.16 | 33.00 | PASS |
| Band7 | 10MHz | QPSK  | 21100 | 1RB#0   | 19.68 | 18.08 | 33.00 | PASS |
| Band7 | 10MHz | QPSK  | 21100 | 1RB#24  | 19.45 | 17.85 | 33.00 | PASS |
| Band7 | 10MHz | QPSK  | 21100 | 1RB#49  | 19.66 | 18.06 | 33.00 | PASS |
| Band7 | 10MHz | QPSK  | 21100 | 25RB#0  | 19.55 | 17.95 | 33.00 | PASS |
| Band7 | 10MHz | QPSK  | 21100 | 25RB#12 | 19.50 | 17.90 | 33.00 | PASS |
| Band7 | 10MHz | QPSK  | 21100 | 25RB#25 | 19.50 | 17.90 | 33.00 | PASS |
| Band7 | 10MHz | QPSK  | 21100 | 50RB#0  | 19.54 | 17.94 | 33.00 | PASS |
| Band7 | 10MHz | QPSK  | 21400 | 1RB#0   | 19.71 | 18.11 | 33.00 | PASS |
| Band7 | 10MHz | QPSK  | 21400 | 1RB#24  | 19.30 | 17.70 | 33.00 | PASS |
| Band7 | 10MHz | QPSK  | 21400 | 1RB#49  | 19.30 | 17.70 | 33.00 | PASS |
| Band7 | 10MHz | QPSK  | 21400 | 25RB#0  | 19.39 | 17.79 | 33.00 | PASS |
| Band7 | 10MHz | QPSK  | 21400 | 25RB#12 | 19.36 | 17.76 | 33.00 | PASS |
| Band7 | 10MHz | QPSK  | 21400 | 25RB#25 | 19.45 | 17.85 | 33.00 | PASS |
| Band7 | 10MHz | QPSK  | 21400 | 50RB#0  | 19.47 | 17.87 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 1RB#0   | 20.21 | 18.61 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 1RB#24  | 20.08 | 18.48 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 1RB#49  | 20.12 | 18.52 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 25RB#0  | 19.76 | 18.16 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 25RB#12 | 19.74 | 18.14 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 25RB#25 | 19.64 | 18.04 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 50RB#0  | 19.66 | 18.06 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 1RB#0   | 20.15 | 18.55 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 1RB#24  | 19.64 | 18.04 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 1RB#49  | 19.85 | 18.25 | 33.00 | PASS |



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|       |       |       |       |         |       |       |       |      |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band7 | 10MHz | 16QAM | 21100 | 25RB#0  | 19.57 | 17.97 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 25RB#12 | 19.60 | 18.00 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 25RB#25 | 19.49 | 17.89 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 50RB#0  | 19.54 | 17.94 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 1RB#0   | 19.44 | 17.84 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 1RB#24  | 19.84 | 18.24 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 1RB#49  | 20.06 | 18.46 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 25RB#0  | 19.42 | 17.82 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 25RB#12 | 19.47 | 17.87 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 25RB#25 | 19.39 | 17.79 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 50RB#0  | 19.37 | 17.77 | 33.00 | PASS |
| Band7 | 15MHz | QPSK  | 20825 | 1RB#0   | 19.40 | 17.80 | 33.00 | PASS |
| Band7 | 15MHz | QPSK  | 20825 | 1RB#38  | 19.62 | 18.02 | 33.00 | PASS |
| Band7 | 15MHz | QPSK  | 20825 | 1RB#74  | 19.54 | 17.94 | 33.00 | PASS |
| Band7 | 15MHz | QPSK  | 20825 | 38RB#0  | 19.67 | 18.07 | 33.00 | PASS |
| Band7 | 15MHz | QPSK  | 20825 | 38RB#18 | 19.82 | 18.22 | 33.00 | PASS |
| Band7 | 15MHz | QPSK  | 20825 | 38RB#37 | 19.88 | 18.28 | 33.00 | PASS |
| Band7 | 15MHz | QPSK  | 20825 | 75RB#0  | 20.00 | 18.40 | 33.00 | PASS |
| Band7 | 15MHz | QPSK  | 21100 | 1RB#0   | 19.51 | 17.91 | 33.00 | PASS |
| Band7 | 15MHz | QPSK  | 21100 | 1RB#38  | 19.50 | 17.90 | 33.00 | PASS |
| Band7 | 15MHz | QPSK  | 21100 | 1RB#74  | 19.38 | 17.78 | 33.00 | PASS |
| Band7 | 15MHz | QPSK  | 21100 | 38RB#0  | 19.49 | 17.89 | 33.00 | PASS |
| Band7 | 15MHz | QPSK  | 21100 | 38RB#18 | 19.63 | 18.03 | 33.00 | PASS |
| Band7 | 15MHz | QPSK  | 21100 | 38RB#37 | 19.78 | 18.18 | 33.00 | PASS |
| Band7 | 15MHz | QPSK  | 21100 | 75RB#0  | 19.69 | 18.09 | 33.00 | PASS |
| Band7 | 15MHz | QPSK  | 21375 | 1RB#0   | 19.50 | 17.90 | 33.00 | PASS |
| Band7 | 15MHz | QPSK  | 21375 | 1RB#38  | 19.35 | 17.75 | 33.00 | PASS |
| Band7 | 15MHz | QPSK  | 21375 | 1RB#74  | 19.46 | 17.86 | 33.00 | PASS |
| Band7 | 15MHz | QPSK  | 21375 | 38RB#0  | 19.31 | 17.71 | 33.00 | PASS |
| Band7 | 15MHz | QPSK  | 21375 | 38RB#18 | 19.41 | 17.81 | 33.00 | PASS |
| Band7 | 15MHz | QPSK  | 21375 | 38RB#37 | 19.56 | 17.96 | 33.00 | PASS |
| Band7 | 15MHz | QPSK  | 21375 | 75RB#0  | 19.49 | 17.89 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 1RB#0   | 19.39 | 17.79 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 1RB#38  | 19.80 | 18.20 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 1RB#74  | 19.89 | 18.29 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 38RB#0  | 19.79 | 18.19 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 38RB#18 | 19.84 | 18.24 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 38RB#37 | 19.85 | 18.25 | 33.00 | PASS |



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|       |       |       |       |         |       |       |       |      |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band7 | 15MHz | 16QAM | 20825 | 75RB#0  | 19.87 | 18.27 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 1RB#0   | 19.66 | 18.06 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 1RB#38  | 19.50 | 17.90 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 1RB#74  | 19.79 | 18.19 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 38RB#0  | 19.50 | 17.90 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 38RB#18 | 19.71 | 18.11 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 38RB#37 | 19.77 | 18.17 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 75RB#0  | 19.60 | 18.00 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 1RB#0   | 19.68 | 18.08 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 1RB#38  | 19.78 | 18.18 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 1RB#74  | 19.41 | 17.81 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 38RB#0  | 19.30 | 17.70 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 38RB#18 | 19.50 | 17.90 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 38RB#37 | 19.52 | 17.92 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 75RB#0  | 19.47 | 17.87 | 33.00 | PASS |
| Band7 | 20MHz | QPSK  | 20850 | 1RB#0   | 19.54 | 17.94 | 33.00 | PASS |
| Band7 | 20MHz | QPSK  | 20850 | 1RB#49  | 19.68 | 18.08 | 33.00 | PASS |
| Band7 | 20MHz | QPSK  | 20850 | 1RB#99  | 19.75 | 18.15 | 33.00 | PASS |
| Band7 | 20MHz | QPSK  | 20850 | 50RB#0  | 19.55 | 17.95 | 33.00 | PASS |
| Band7 | 20MHz | QPSK  | 20850 | 50RB#25 | 19.57 | 17.97 | 33.00 | PASS |
| Band7 | 20MHz | QPSK  | 20850 | 50RB#50 | 19.58 | 17.98 | 33.00 | PASS |
| Band7 | 20MHz | QPSK  | 20850 | 100RB#0 | 19.88 | 18.28 | 33.00 | PASS |
| Band7 | 20MHz | QPSK  | 21100 | 1RB#0   | 19.29 | 17.69 | 33.00 | PASS |
| Band7 | 20MHz | QPSK  | 21100 | 1RB#49  | 19.51 | 17.91 | 33.00 | PASS |
| Band7 | 20MHz | QPSK  | 21100 | 1RB#99  | 19.74 | 18.14 | 33.00 | PASS |
| Band7 | 20MHz | QPSK  | 21100 | 50RB#0  | 19.48 | 17.88 | 33.00 | PASS |
| Band7 | 20MHz | QPSK  | 21100 | 50RB#25 | 19.45 | 17.85 | 33.00 | PASS |
| Band7 | 20MHz | QPSK  | 21100 | 50RB#50 | 19.54 | 17.94 | 33.00 | PASS |
| Band7 | 20MHz | QPSK  | 21100 | 100RB#0 | 19.56 | 17.96 | 33.00 | PASS |
| Band7 | 20MHz | QPSK  | 21350 | 1RB#0   | 19.46 | 17.86 | 33.00 | PASS |
| Band7 | 20MHz | QPSK  | 21350 | 1RB#49  | 19.29 | 17.69 | 33.00 | PASS |
| Band7 | 20MHz | QPSK  | 21350 | 1RB#99  | 19.71 | 18.11 | 33.00 | PASS |
| Band7 | 20MHz | QPSK  | 21350 | 50RB#0  | 19.34 | 17.74 | 33.00 | PASS |
| Band7 | 20MHz | QPSK  | 21350 | 50RB#25 | 19.29 | 17.69 | 33.00 | PASS |
| Band7 | 20MHz | QPSK  | 21350 | 50RB#50 | 19.38 | 17.78 | 33.00 | PASS |
| Band7 | 20MHz | QPSK  | 21350 | 100RB#0 | 19.33 | 17.73 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 1RB#0   | 20.17 | 18.57 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 1RB#49  | 19.66 | 18.06 | 33.00 | PASS |



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|       |       |       |       |         |       |       |       |      |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band7 | 20MHz | 16QAM | 20850 | 1RB#99  | 20.15 | 18.55 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 50RB#0  | 19.59 | 17.99 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 50RB#25 | 19.69 | 18.09 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 50RB#50 | 19.70 | 18.10 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | 19.88 | 18.28 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 1RB#0   | 19.61 | 18.01 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 1RB#49  | 20.05 | 18.45 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 1RB#99  | 20.28 | 18.68 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 50RB#0  | 19.38 | 17.78 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 50RB#25 | 19.51 | 17.91 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 50RB#50 | 19.61 | 18.01 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | 19.67 | 18.07 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 1RB#0   | 19.49 | 17.89 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 1RB#49  | 19.47 | 17.87 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 1RB#99  | 20.19 | 18.59 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 50RB#0  | 19.37 | 17.77 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 50RB#25 | 19.37 | 17.77 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 50RB#50 | 19.52 | 17.92 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | 19.43 | 17.83 | 33.00 | PASS |

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]



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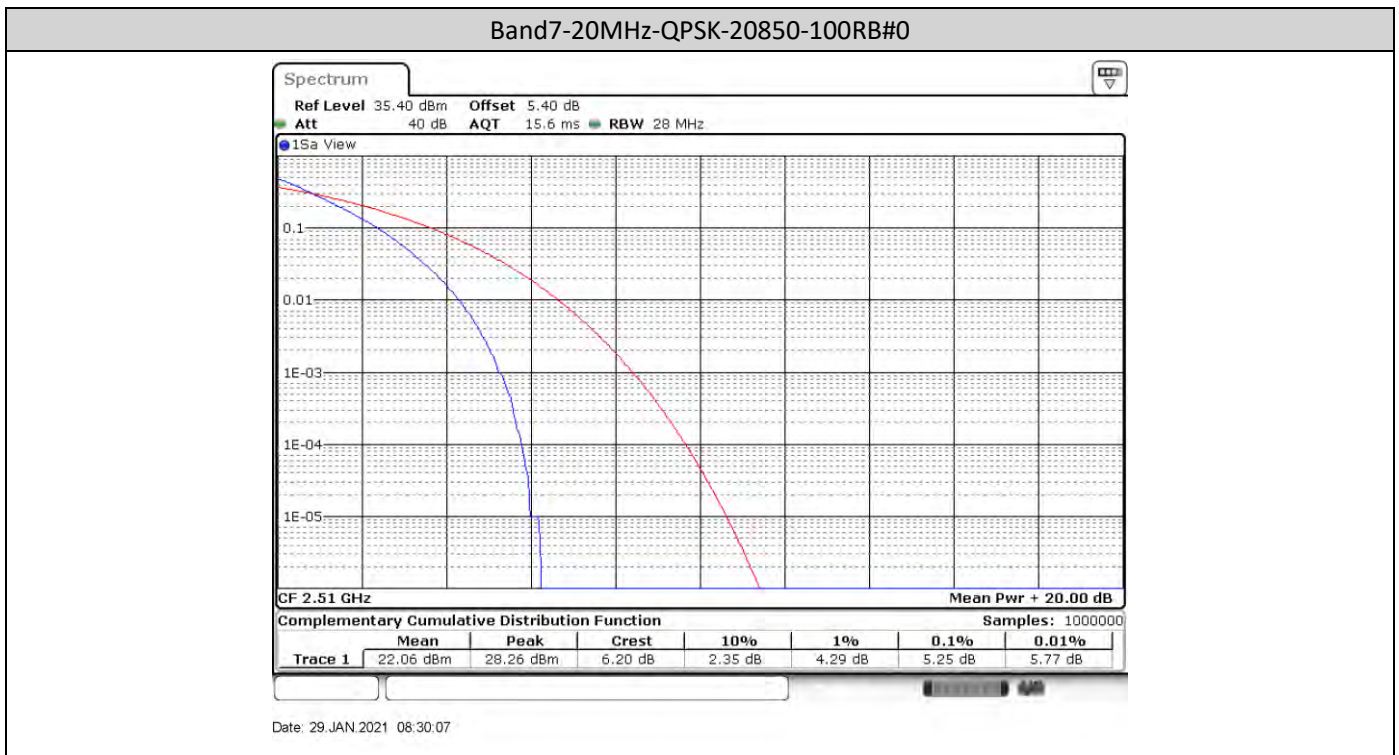


## 2. Peak-to-Average Ratio (CCDF)

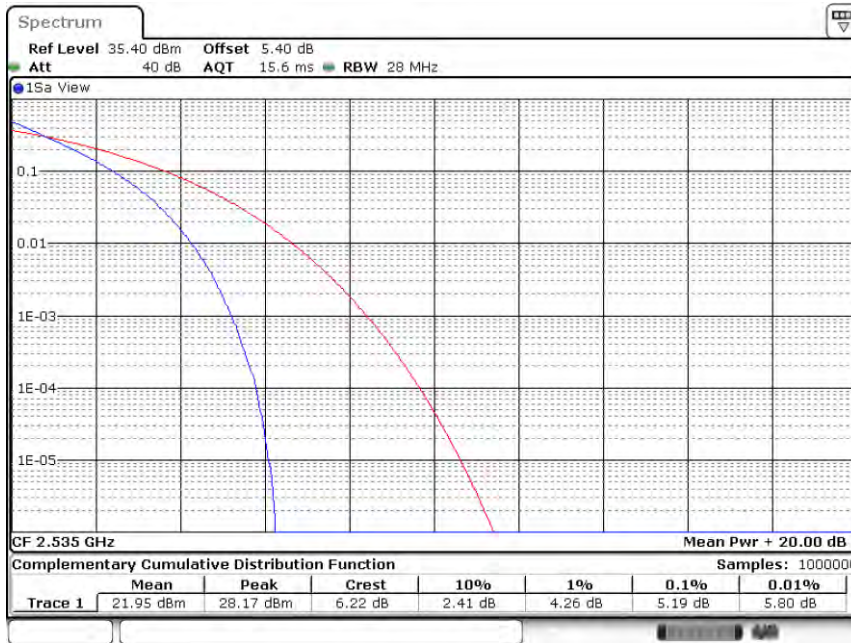
### 2.1. Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|-------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band7 | 20MHz     | QPSK       | 20850   | 100RB#0          | 5.25       | 13        | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0          | 5.19       | 13        | PASS    |
| Band7 | 20MHz     | QPSK       | 21350   | 100RB#0          | 5.13       | 13        | PASS    |
| Band7 | 20MHz     | 16QAM      | 20850   | 100RB#0          | 6.06       | 13        | PASS    |
| Band7 | 20MHz     | 16QAM      | 21100   | 100RB#0          | 6.03       | 13        | PASS    |
| Band7 | 20MHz     | 16QAM      | 21350   | 100RB#0          | 6.00       | 13        | PASS    |

### 2.2. Test Plots

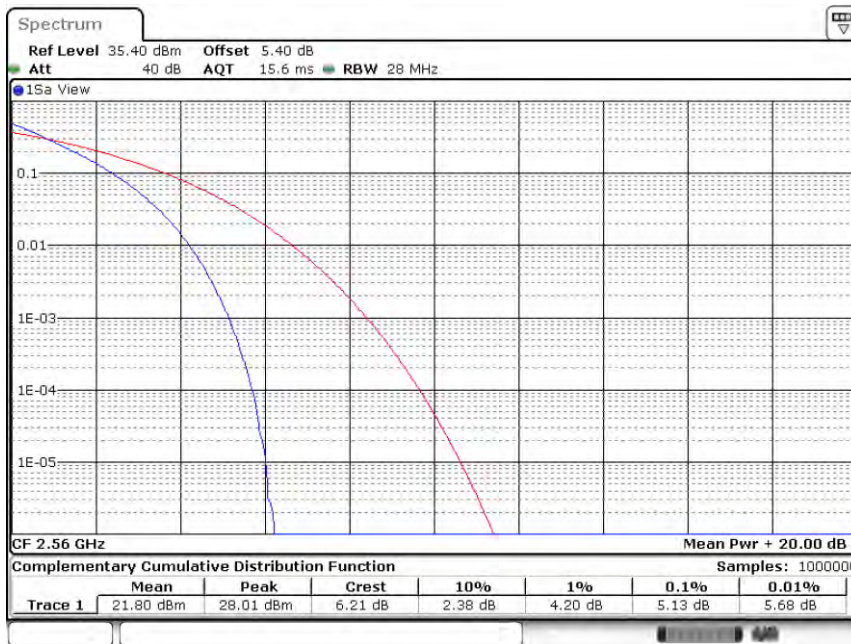


**Band7-20MHz-QPSK-21100-100RB#0**



Date: 29 JAN 2021 08:30:30

**Band7-20MHz-QPSK-21350-100RB#0**



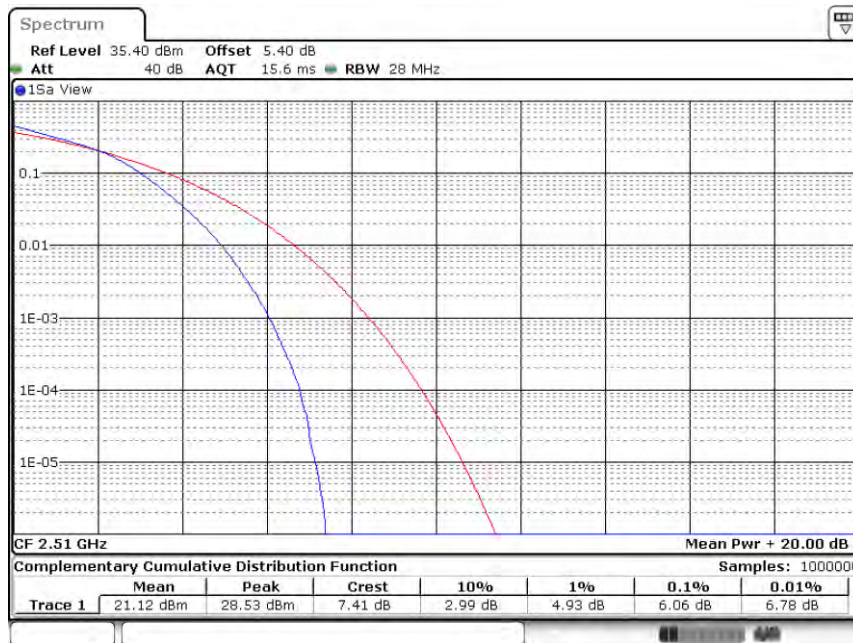
Date: 29 JAN 2021 08:30:53



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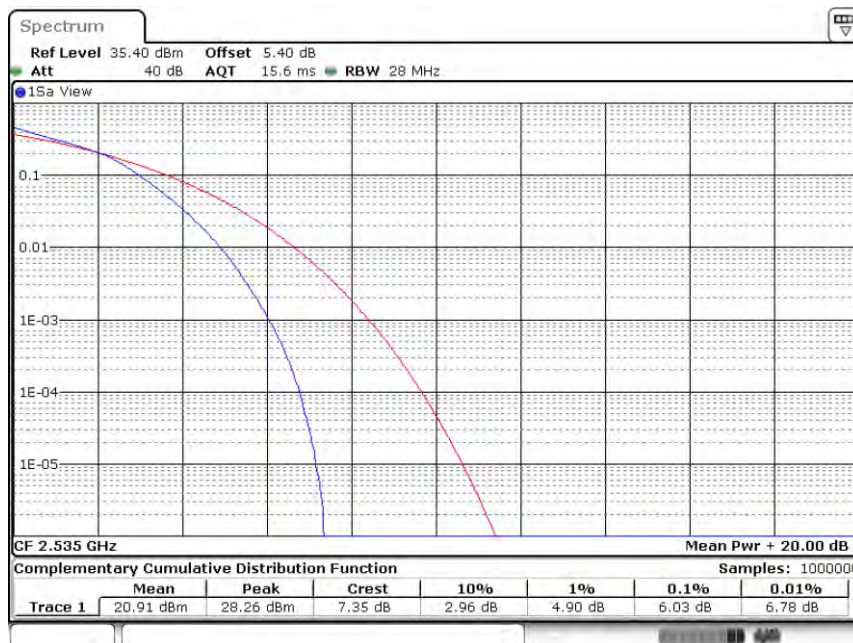
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**Band7-20MHz-16QAM-20850-100RB#0**



Date: 29 JAN 2021 08:30:19

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



Date: 29 JAN 2021 08:30:42



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**Band7-20MHz-16QAM-21350-100RB#0**



Date: 29 JAN 2021 08:31:04



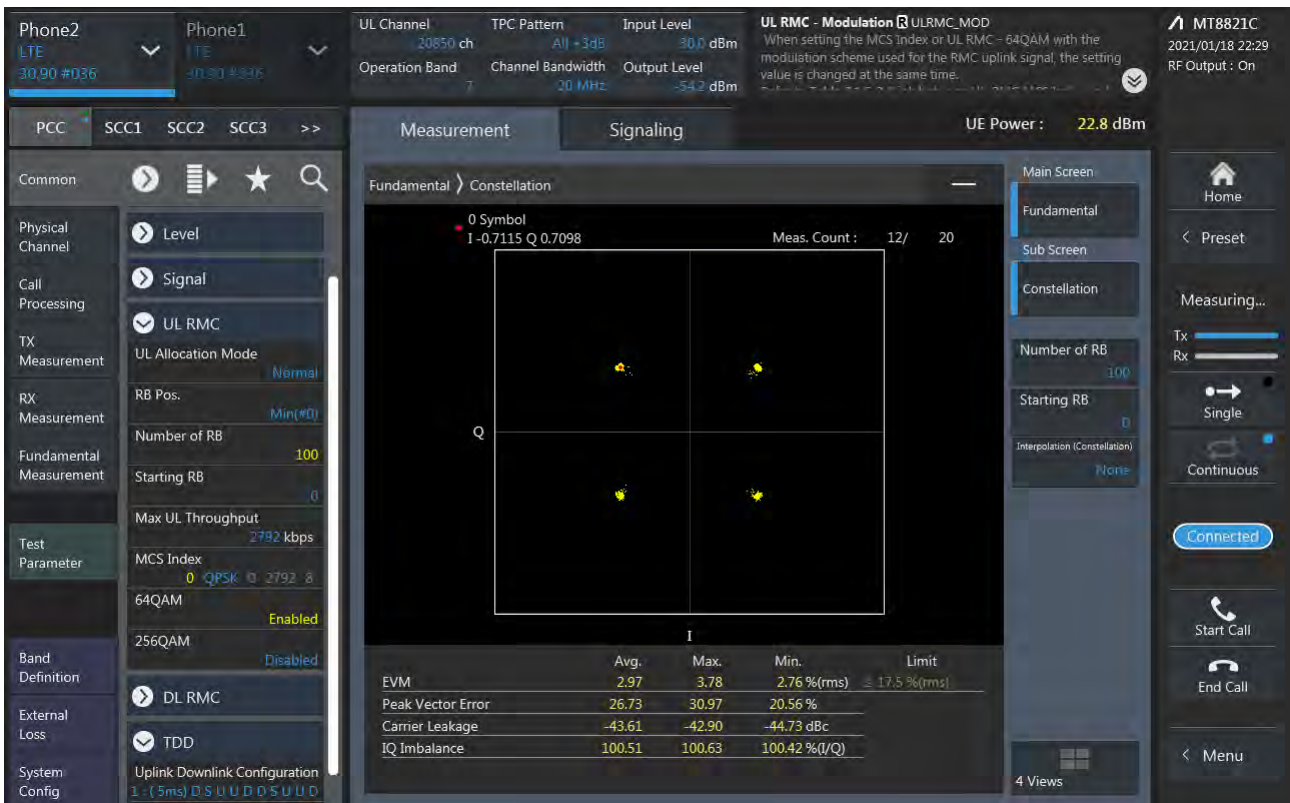
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### 3. Modulation Characteristics

#### 3.1. Test Band = LTE Band 7

#### 3.1.1. Test Mode = LTE /TM1 20MHz

#### 3.1.1.1. Test Channel = MCH



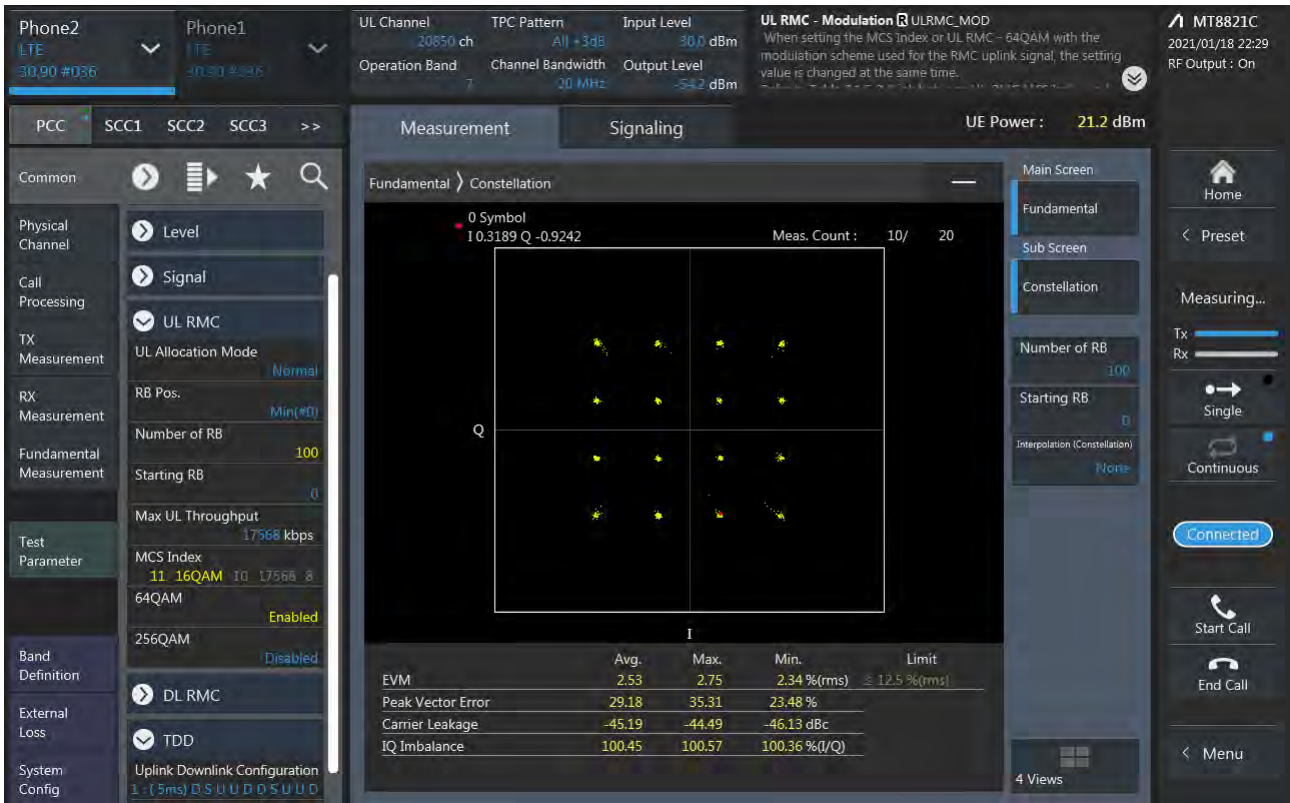
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### 3.1.2. Test Mode = LTE /TM2 20MHz

#### 3.1.2.1. Test Channel = MCH



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## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|-------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band7 | 5MHz      | QPSK       | 20775   | 25RB#0           | 4.476                    | 4.930                | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 25RB#0           | 4.476                    | 4.920                | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 25RB#0           | 4.476                    | 4.920                | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 25RB#0           | 4.476                    | 4.950                | PASS    |
| Band7 | 5MHz      | 16QAM      | 21100   | 25RB#0           | 4.486                    | 4.940                | PASS    |
| Band7 | 5MHz      | 16QAM      | 21425   | 25RB#0           | 4.496                    | 4.940                | PASS    |
| Band7 | 10MHz     | QPSK       | 20800   | 50RB#0           | 8.931                    | 9.720                | PASS    |
| Band7 | 10MHz     | QPSK       | 21100   | 50RB#0           | 8.931                    | 9.740                | PASS    |
| Band7 | 10MHz     | QPSK       | 21400   | 50RB#0           | 8.911                    | 9.760                | PASS    |
| Band7 | 10MHz     | 16QAM      | 20800   | 50RB#0           | 8.931                    | 9.760                | PASS    |
| Band7 | 10MHz     | 16QAM      | 21100   | 50RB#0           | 8.951                    | 9.740                | PASS    |
| Band7 | 10MHz     | 16QAM      | 21400   | 50RB#0           | 8.951                    | 9.760                | PASS    |
| Band7 | 15MHz     | QPSK       | 20825   | 75RB#0           | 13.427                   | 14.820               | PASS    |
| Band7 | 15MHz     | QPSK       | 21100   | 75RB#0           | 13.487                   | 14.760               | PASS    |
| Band7 | 15MHz     | QPSK       | 21375   | 75RB#0           | 13.487                   | 14.790               | PASS    |
| Band7 | 15MHz     | 16QAM      | 20825   | 75RB#0           | 13.457                   | 14.790               | PASS    |
| Band7 | 15MHz     | 16QAM      | 21100   | 75RB#0           | 13.457                   | 14.730               | PASS    |
| Band7 | 15MHz     | 16QAM      | 21375   | 75RB#0           | 13.457                   | 14.820               | PASS    |
| Band7 | 20MHz     | QPSK       | 20850   | 100RB#0          | 17.902                   | 19.440               | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0          | 17.902                   | 19.480               | PASS    |
| Band7 | 20MHz     | QPSK       | 21350   | 100RB#0          | 17.902                   | 19.440               | PASS    |
| Band7 | 20MHz     | 16QAM      | 20850   | 100RB#0          | 17.902                   | 19.400               | PASS    |
| Band7 | 20MHz     | 16QAM      | 21100   | 100RB#0          | 17.902                   | 19.440               | PASS    |
| Band7 | 20MHz     | 16QAM      | 21350   | 100RB#0          | 17.902                   | 19.400               | PASS    |

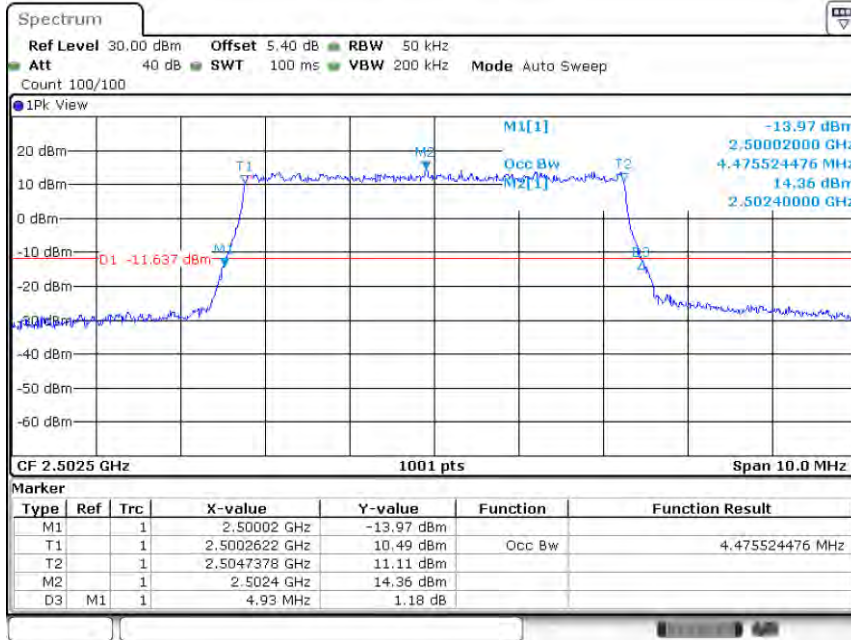


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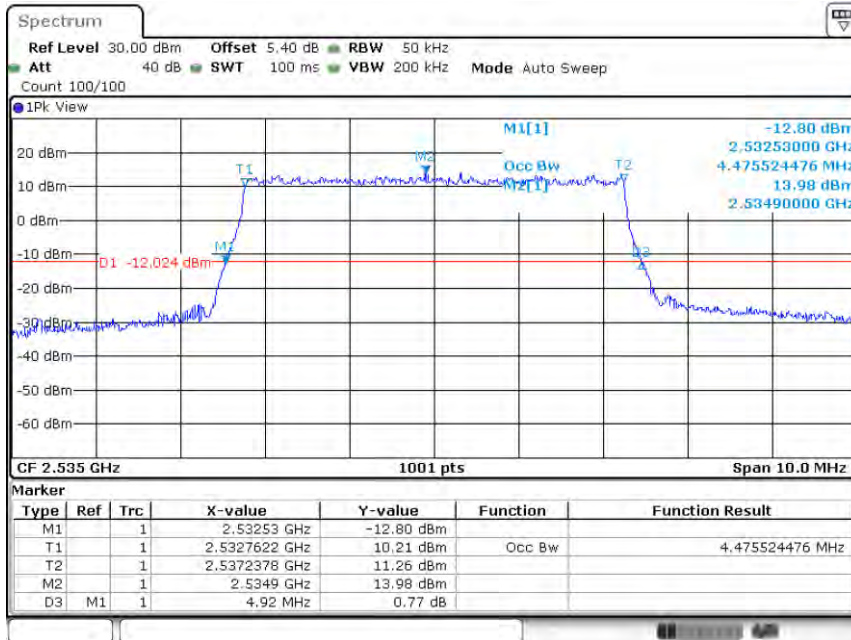
### 4.2. Test Plots

Band7-5MHz-QPSK-20775-25RB#0-4.476



Date: 28.JAN.2021 22:45:39

Band7-5MHz-QPSK-21100-25RB#0-4.476



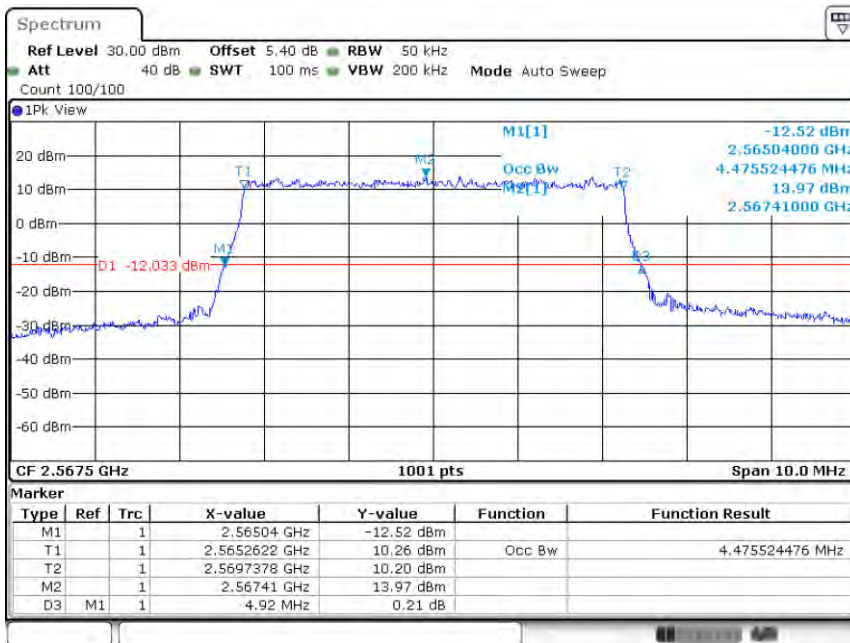
Date: 28.JAN.2021 22:46:19



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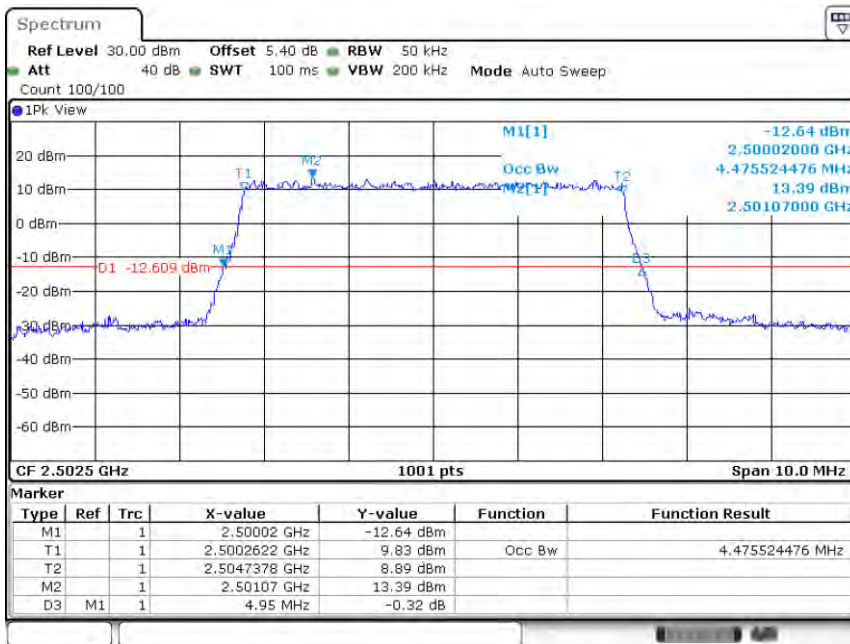


Band7-5MHz-QPSK-21425-25RB#0-4.476



Date: 28 JAN 2021 22:46:59

Band7-5MHz-16QAM-20775-25RB#0-4.476

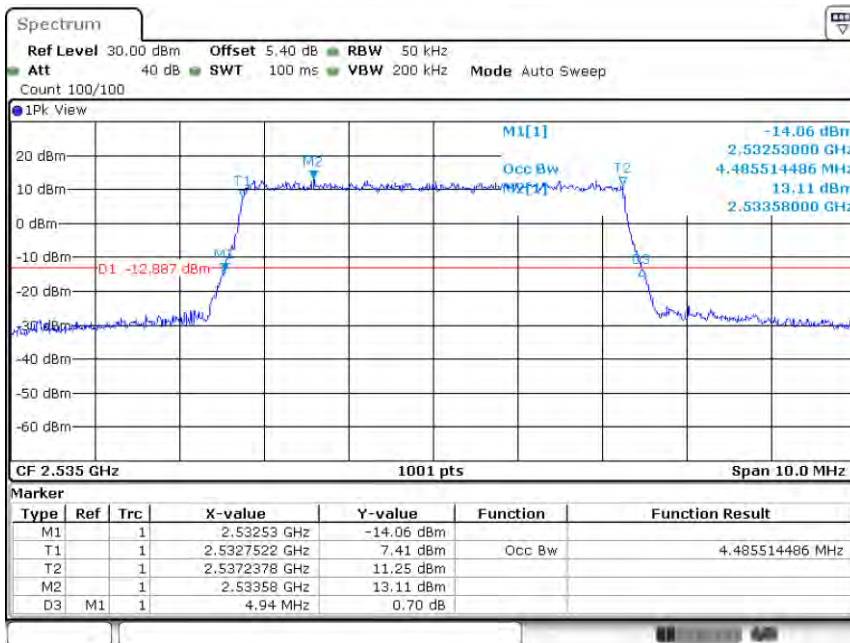


Date: 28 JAN 2021 22:45:59



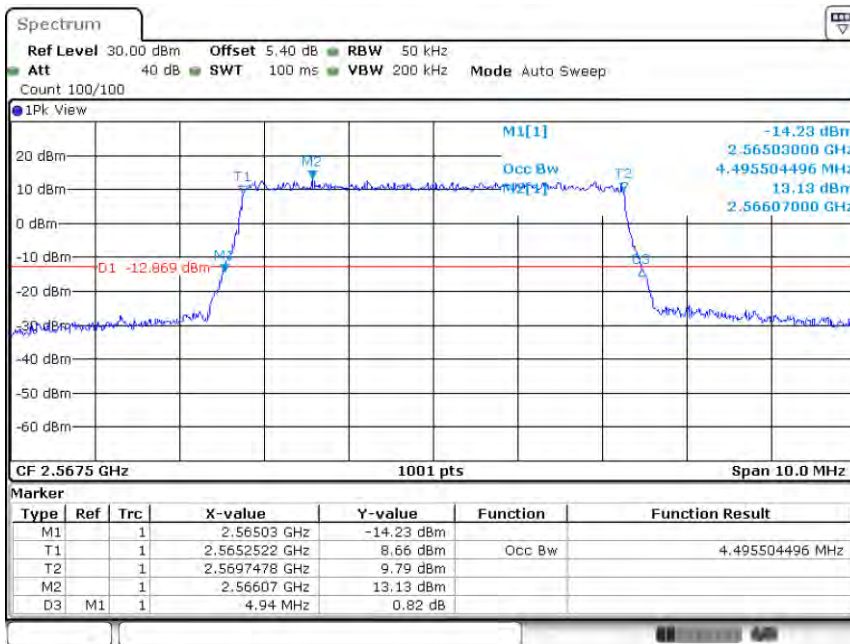
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**Band7-5MHz-16QAM-21100-25RB#0-4.486**



Date: 28 JAN 2021 22:46:39

**Band7-5MHz-16QAM-21425-25RB#0-4.496**

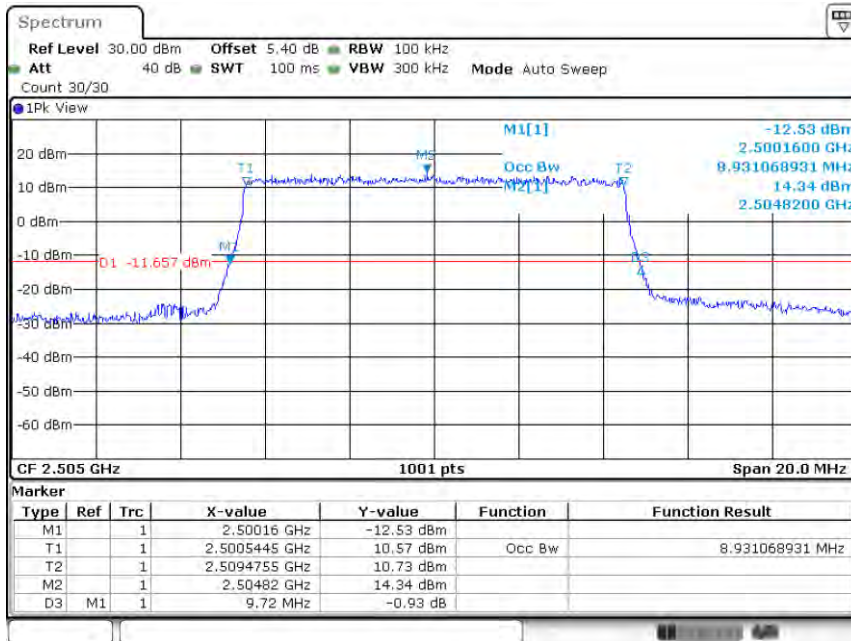


Date: 28 JAN 2021 22:47:18



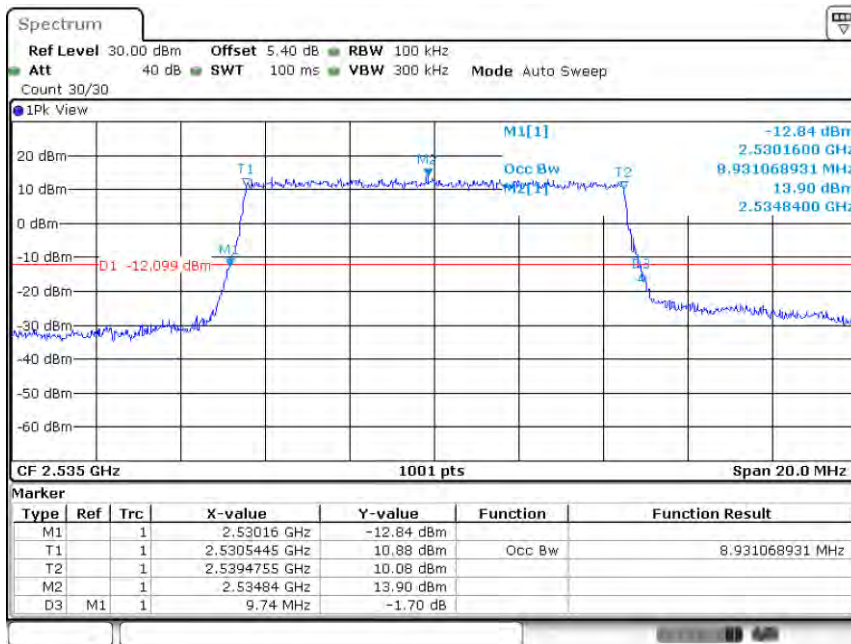
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**Band7-10MHz-QPSK-20800-50RB#0-8.931**



Date: 28.JAN.2021 22:47:36

**Band7-10MHz-QPSK-21100-50RB#0-8.931**



Date: 28.JAN.2021 22:48:02

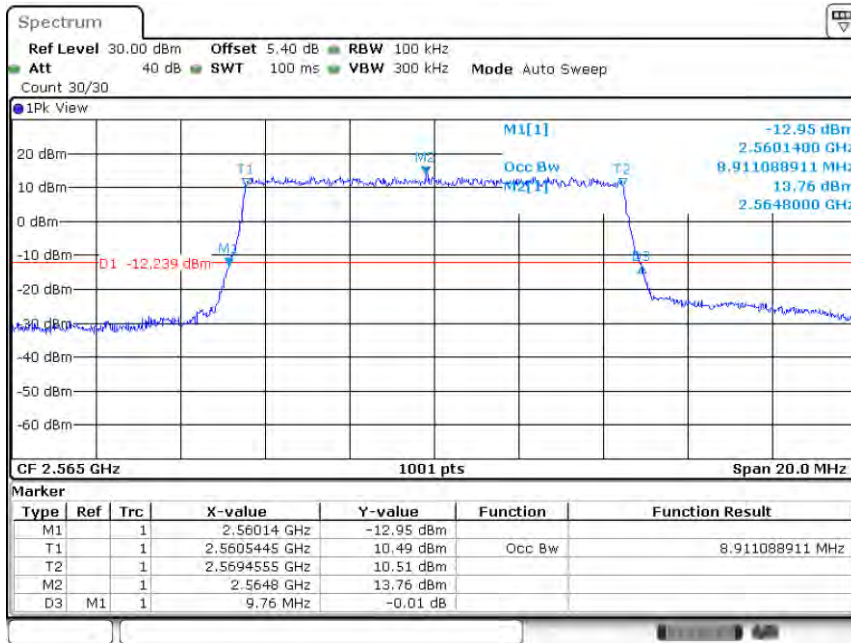


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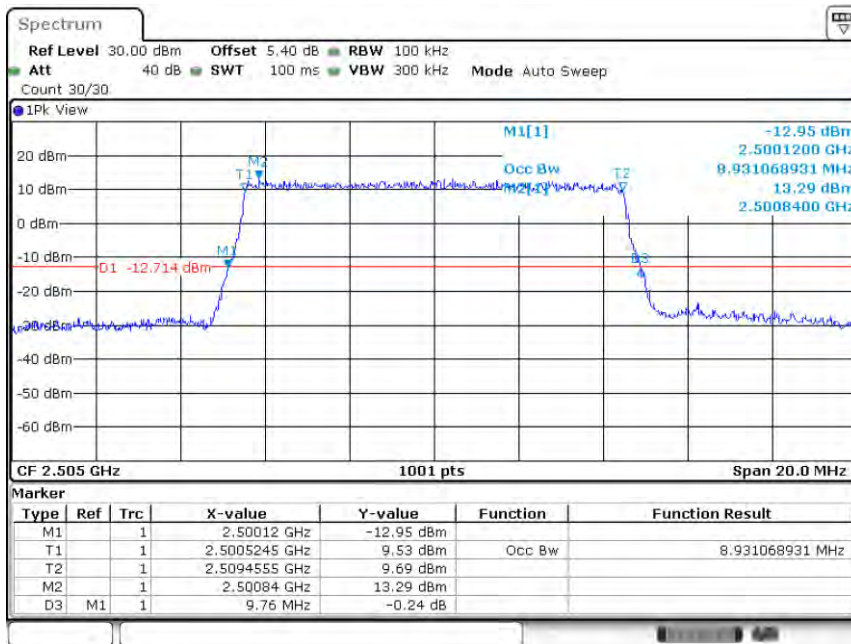


**Band7-10MHz-QPSK-21400-50RB#0-8.911**



Date: 28 JAN 2021 22:48:28

**Band7-10MHz-16QAM-20800-50RB#0-8.931**



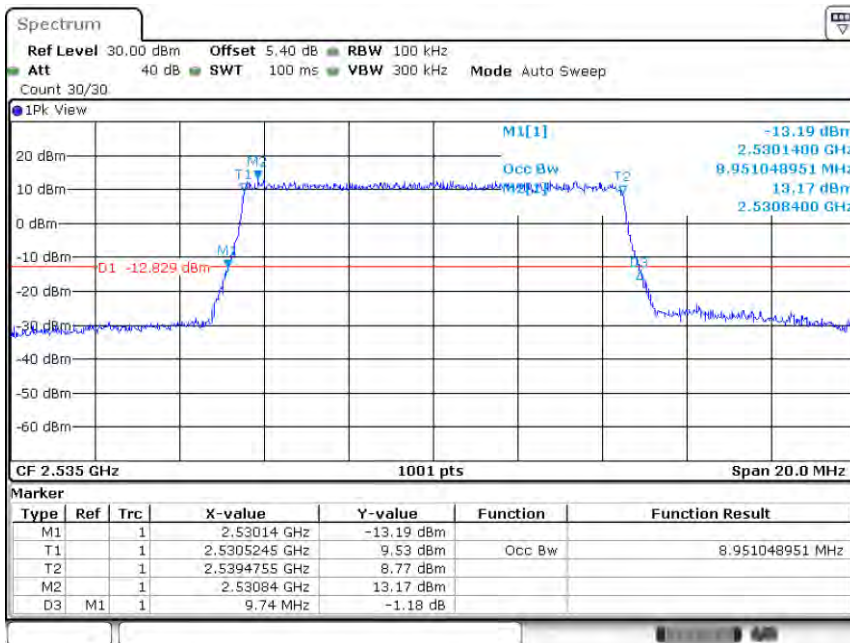
Date: 28 JAN 2021 22:47:49



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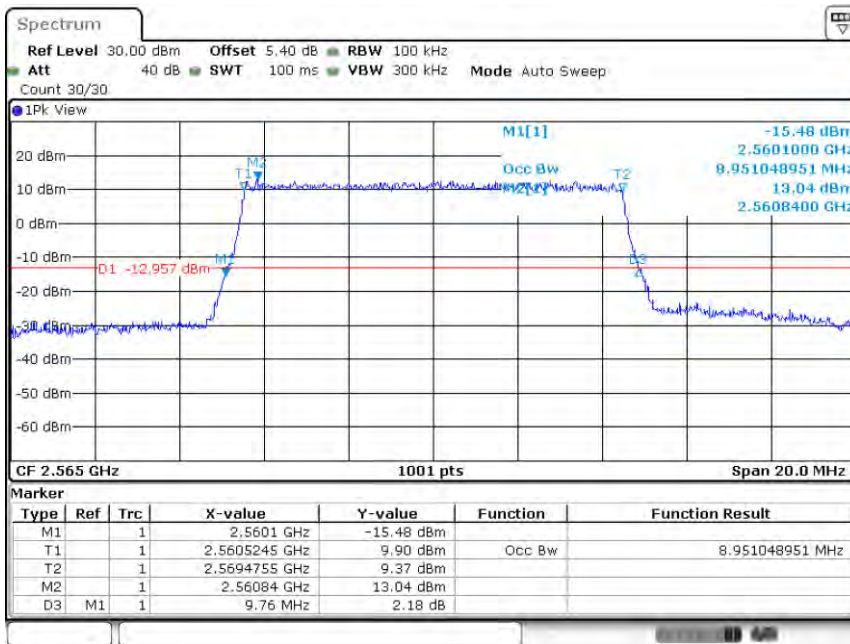


Band7-10MHz-16QAM-21100-50RB#0-8.951



Date: 28.JAN.2021 22:48:15

Band7-10MHz-16QAM-21400-50RB#0-8.951



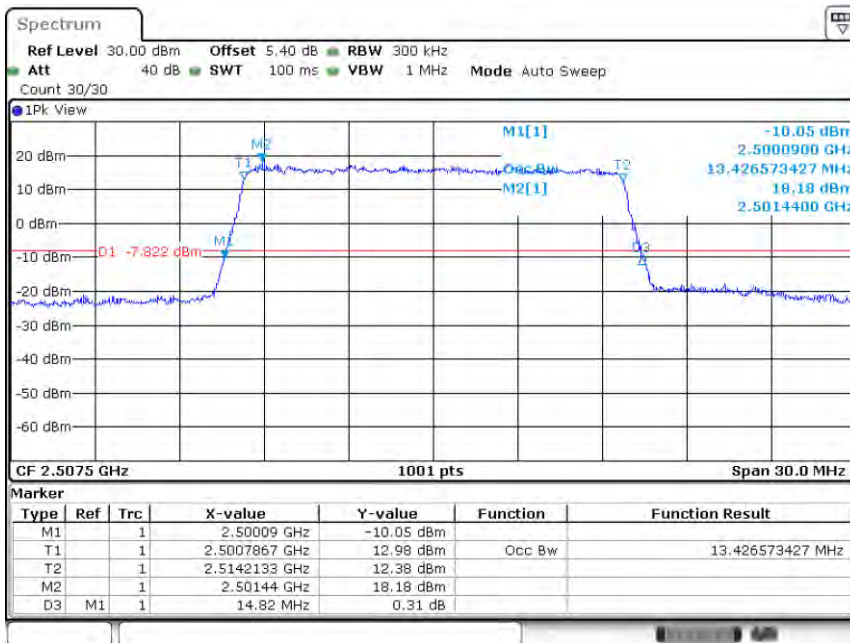
Date: 28.JAN.2021 22:48:40



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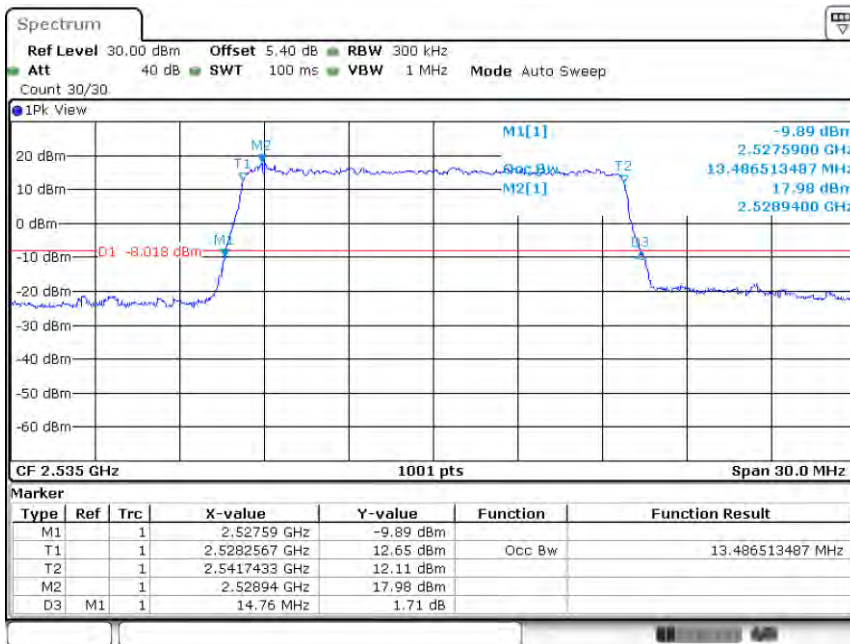


Band7-15MHz-QPSK-20825-75RB#0-13.427



Date: 28.JAN.2021 22:48:58

Band7-15MHz-QPSK-21100-75RB#0-13.487

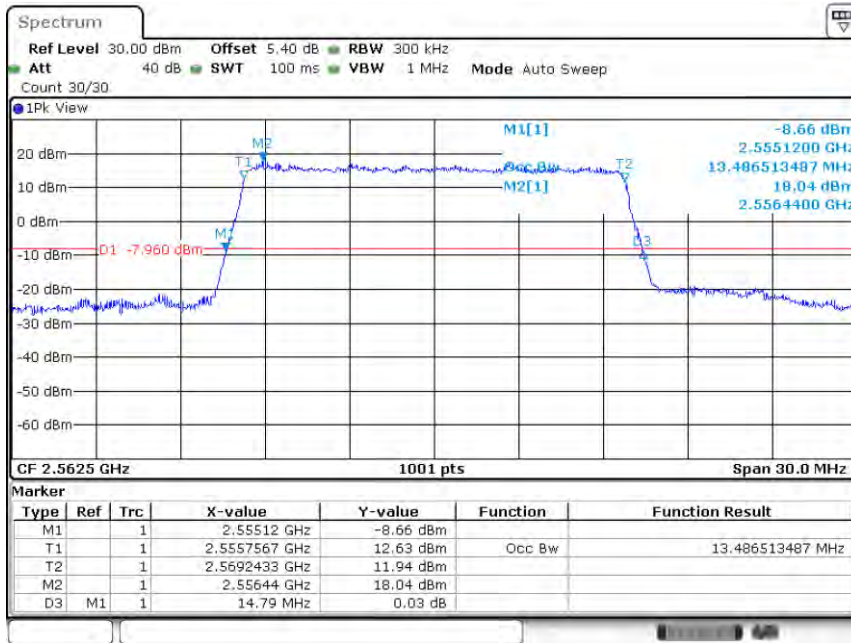


Date: 28.JAN.2021 22:49:24



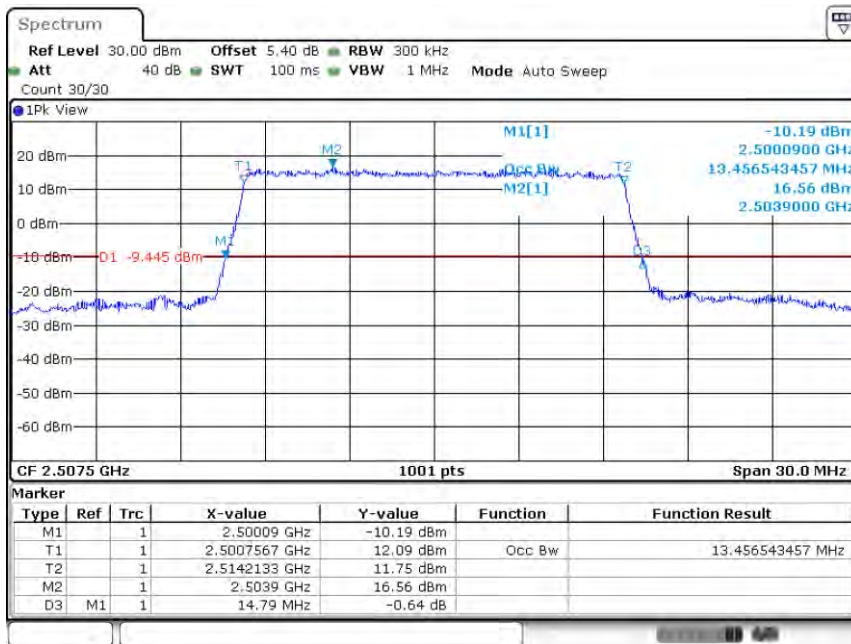
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**Band7-15MHz-QPSK-21375-75RB#0-13.487**



Date: 28.JAN.2021 22:49:49

**Band7-15MHz-16QAM-20825-75RB#0-13.457**

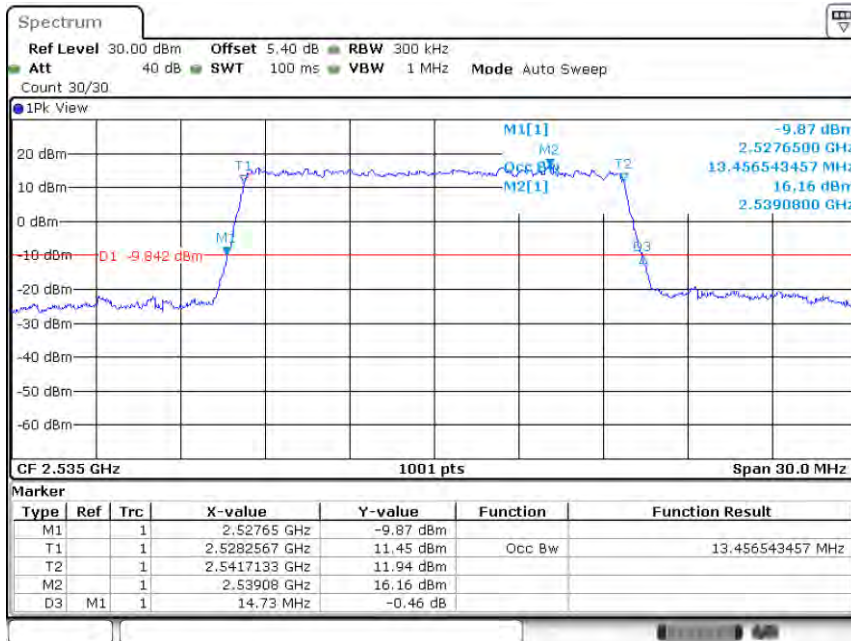


Date: 28.JAN.2021 22:49:11



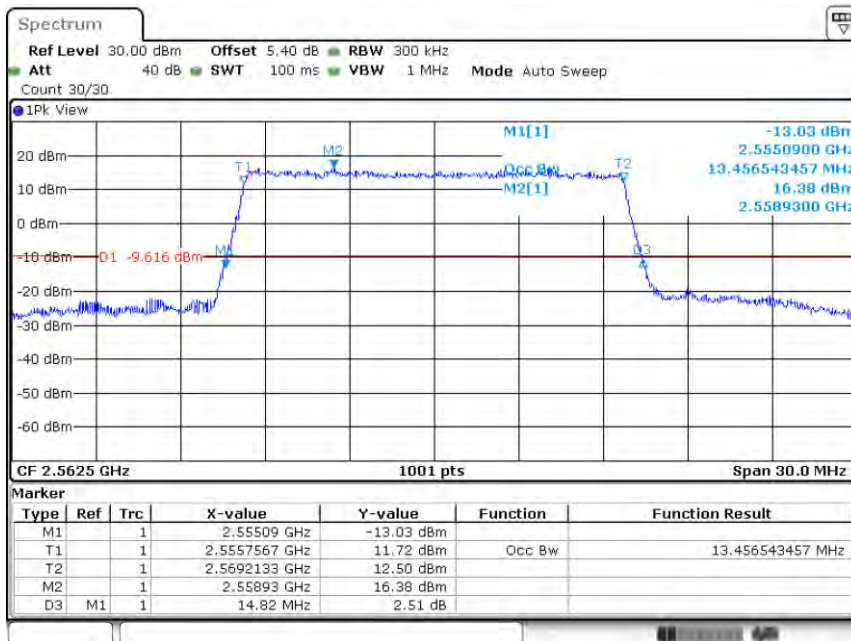
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**Band7-15MHz-16QAM-21100-75RB#0-13.457**



Date: 28.JAN.2021 22:49:36

**Band7-15MHz-16QAM-21375-75RB#0-13.457**



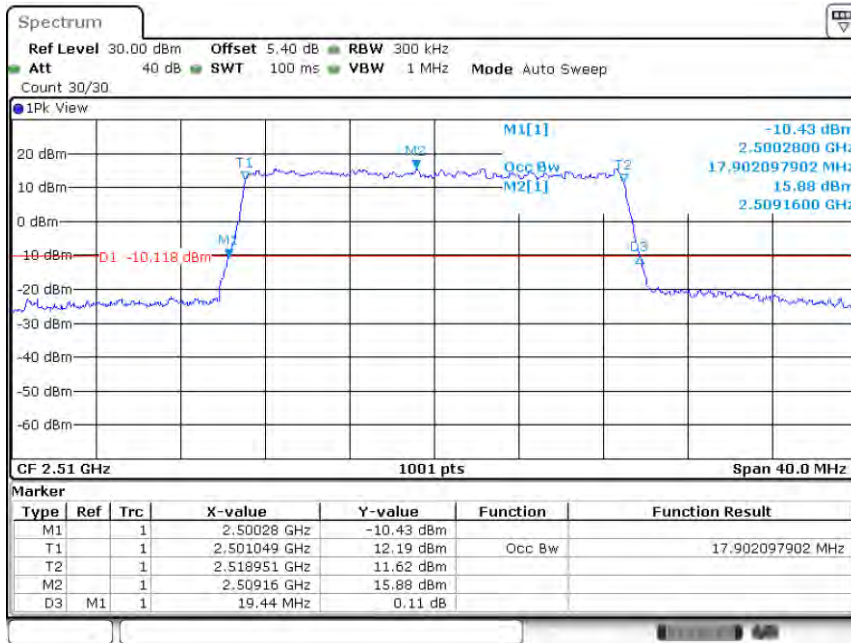
Date: 28.JAN.2021 22:50:02



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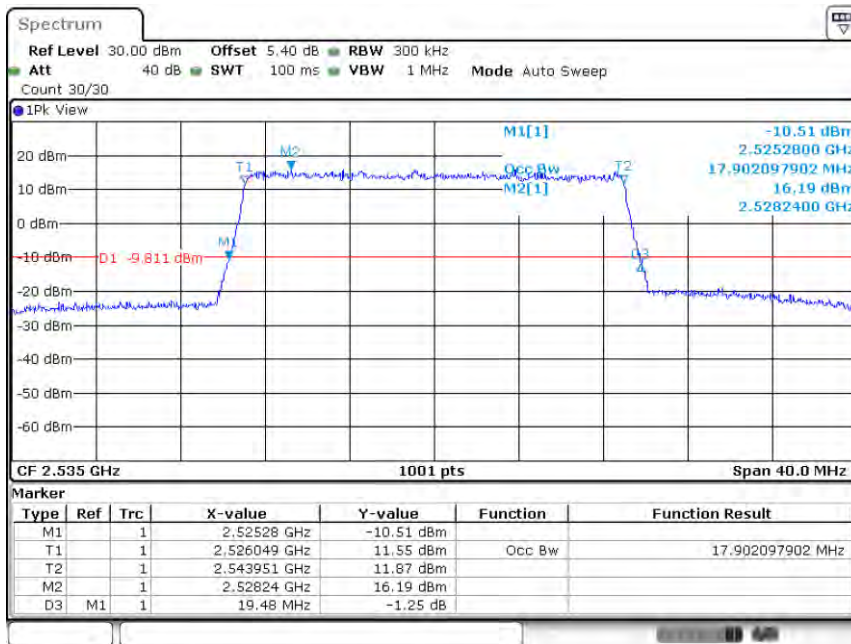


Band7-20MHz-QPSK-20850-100RB#0-17.902



Date: 28.JAN.2021 22:50:20

Band7-20MHz-QPSK-21100-100RB#0-17.902

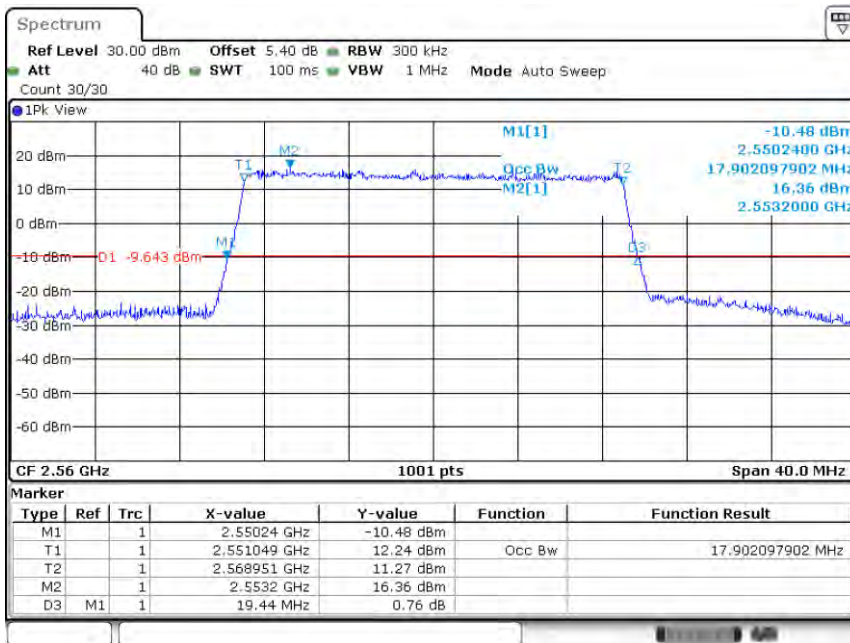


Date: 28.JAN.2021 22:50:46



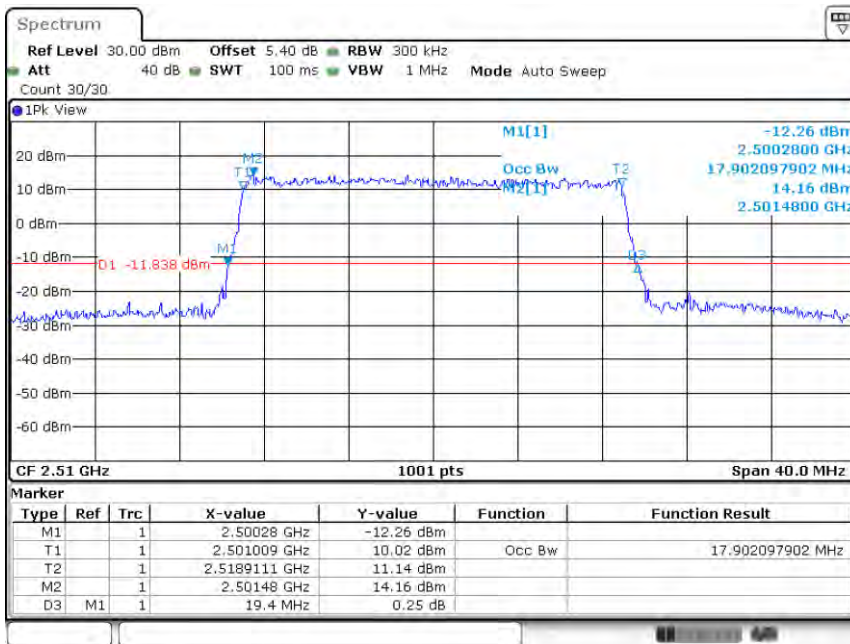
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**Band7-20MHz-QPSK-21350-100RB#0-17.902**



Date: 28.JAN.2021 22:51:11

**Band7-20MHz-16QAM-20850-100RB#0-17.902**

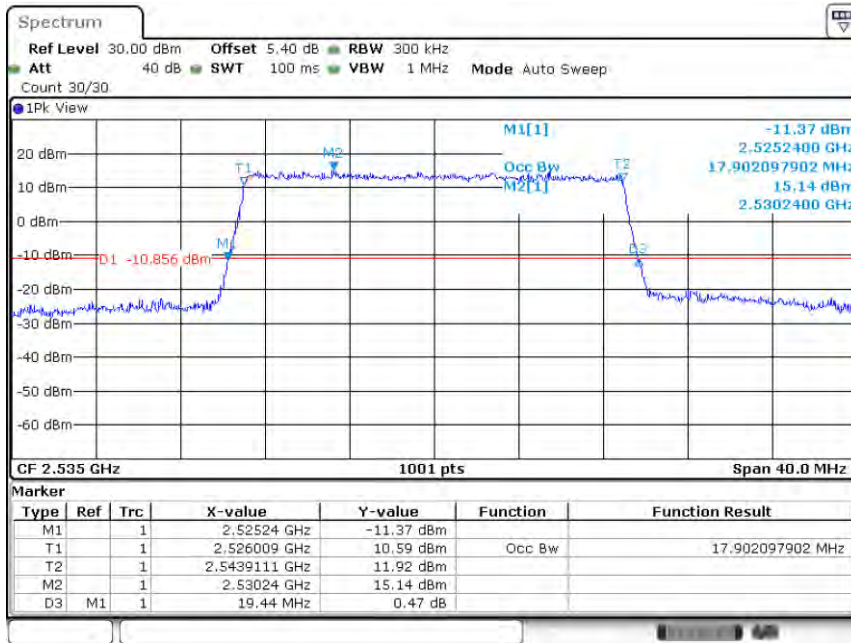


Date: 28.JAN.2021 22:50:33



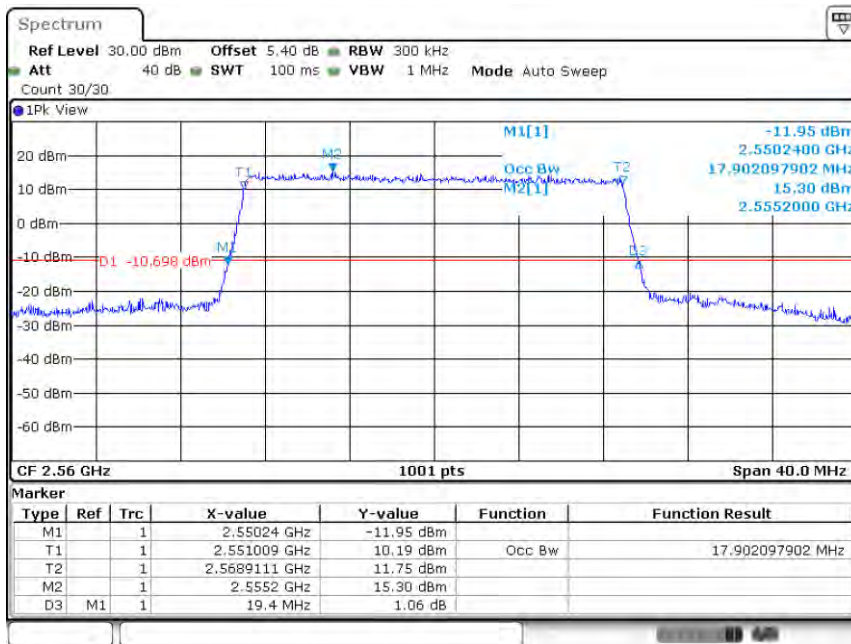
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**Band7-20MHz-16QAM-21100-100RB#0-17.902**



Date: 28.JAN.2021 22:50:58

**Band7-20MHz-16QAM-21350-100RB#0-17.902**



Date: 28.JAN.2021 22:51:24

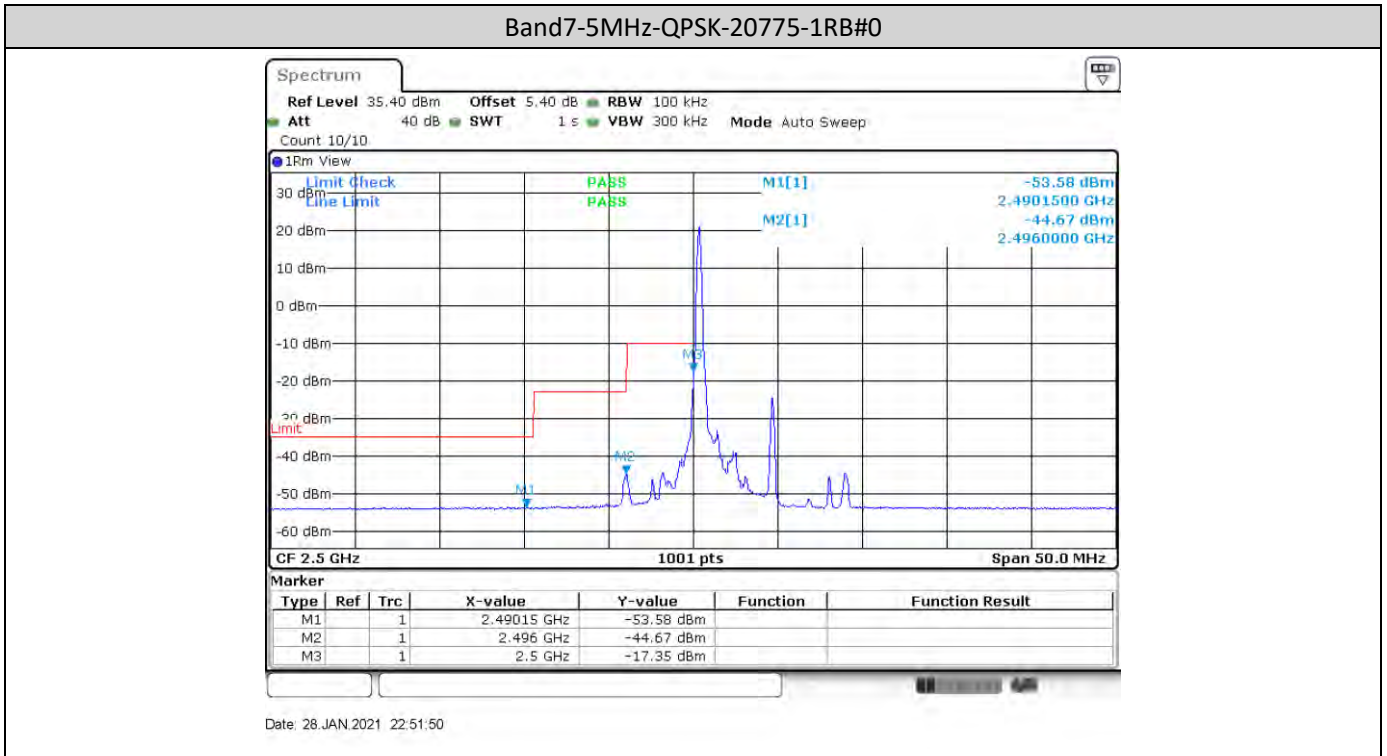


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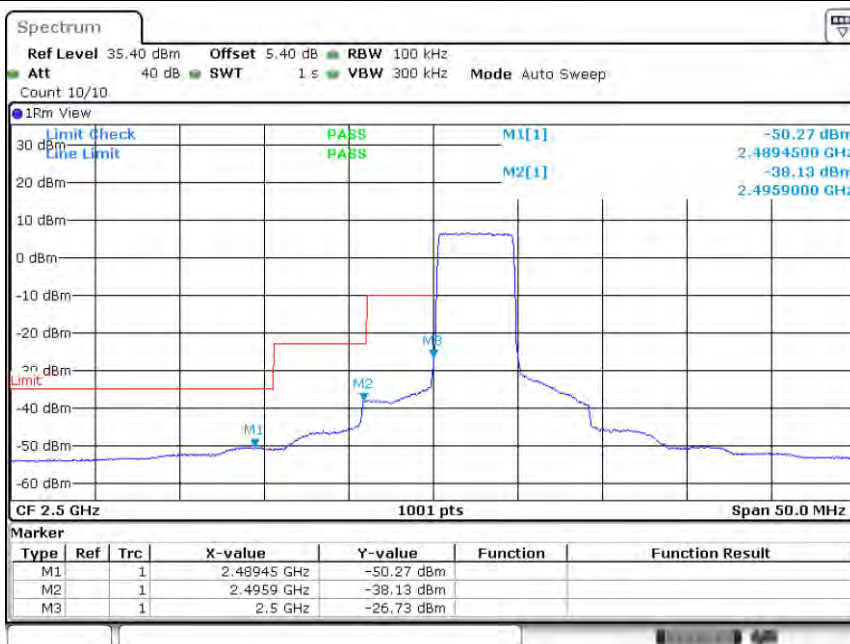
## 5. Band Edge Compliance

### 5.1. Test Plots



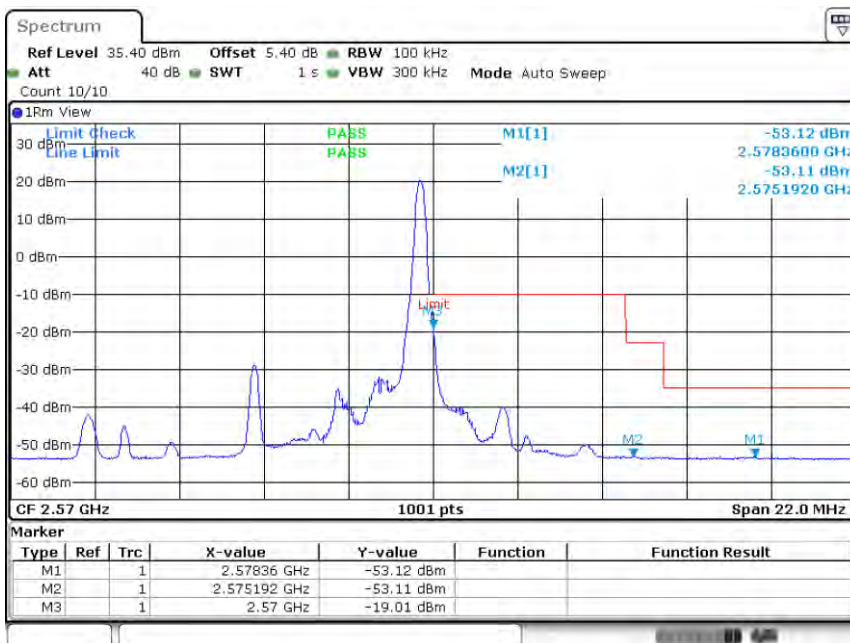
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**Band7-5MHz-QPSK-20775-25RB#0**



Date: 28 JAN 2021 22:53:24

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

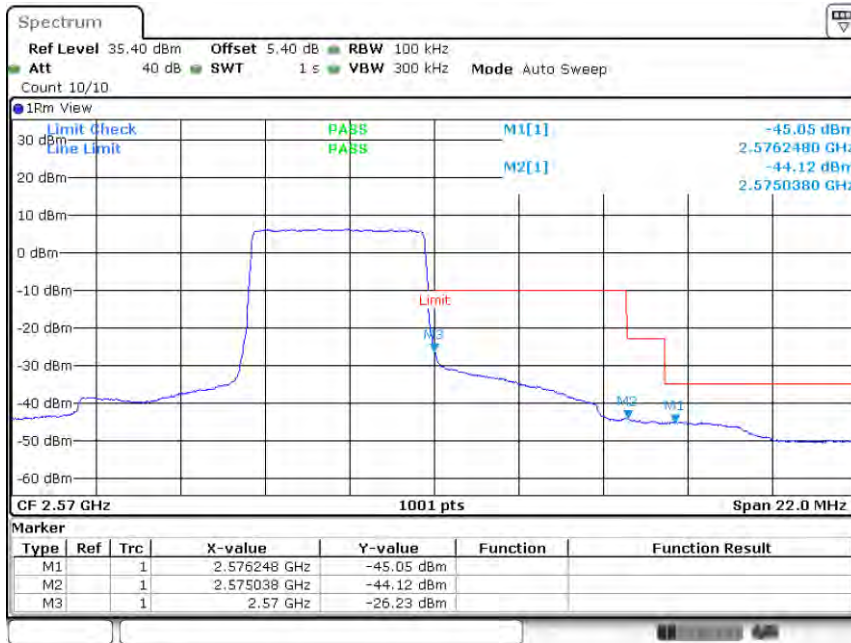


Date: 28 JAN 2021 22:52:37



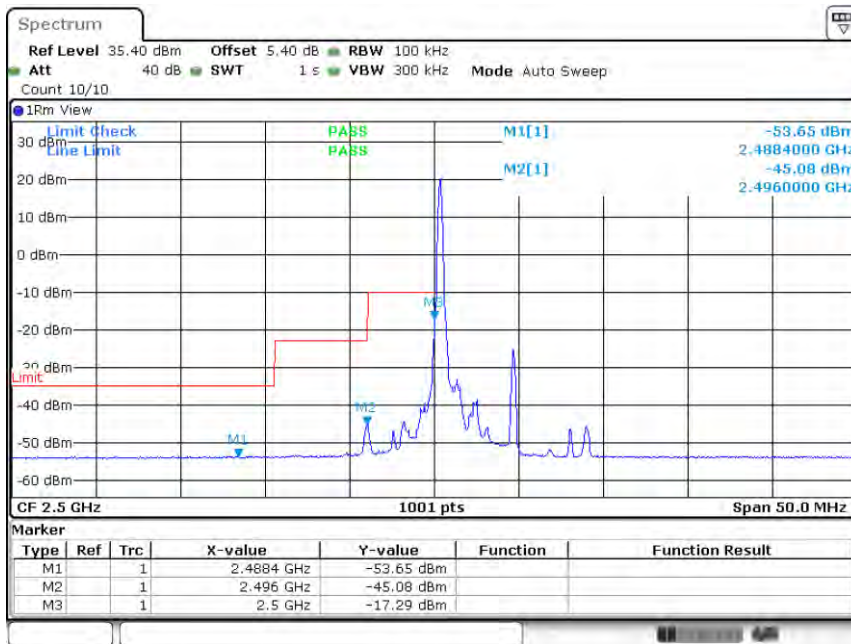
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**Band7-5MHz-QPSK-21425-25RB#0**



Date: 28. JAN 2021 22:54:07

**Band7-5MHz-16QAM-20775-1RB#0**

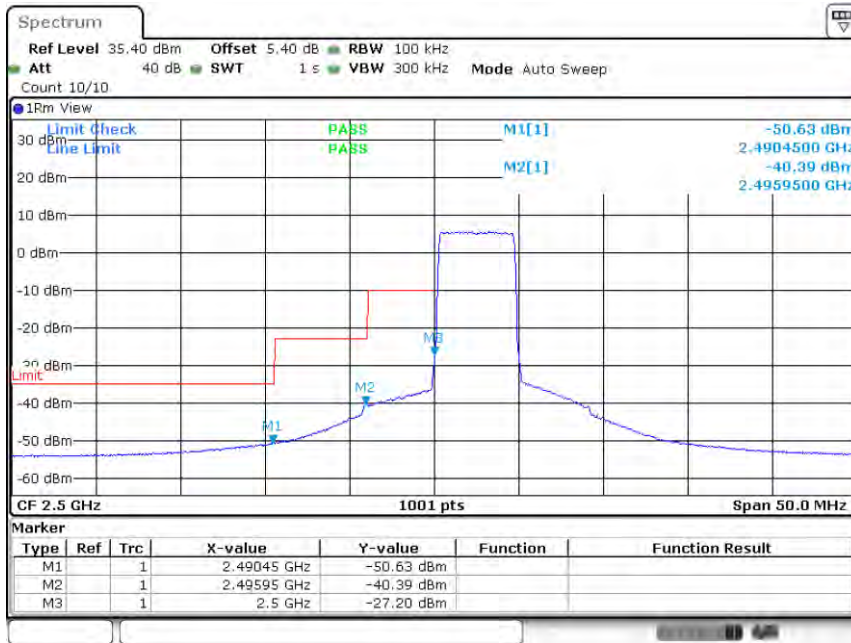


Date: 28. JAN 2021 22:52:12



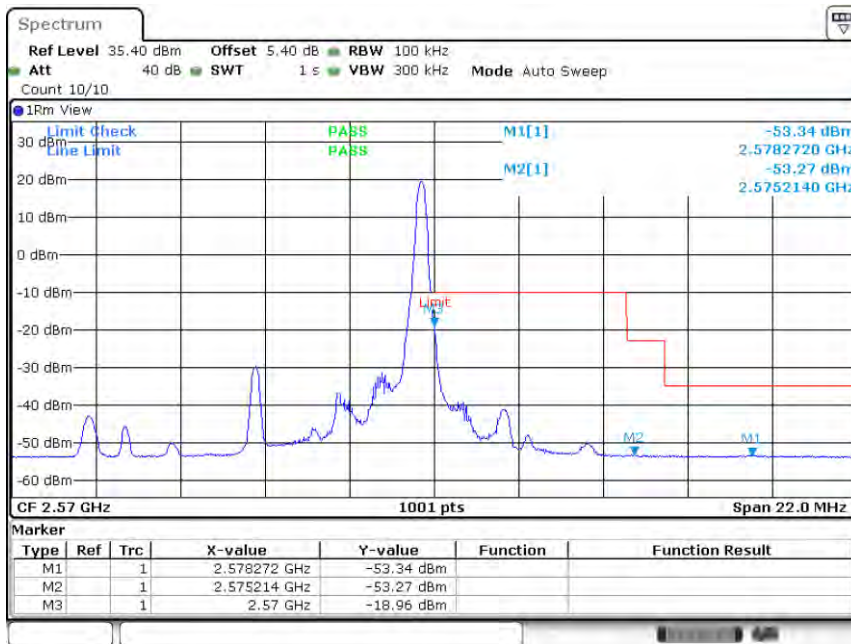
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**Band7-5MHz-16QAM-20775-25RB#0**



Date: 28 JAN 2021 22:53:46

**Band7-5MHz-16QAM-21425-1RB#24**



Date: 28 JAN 2021 22:52:59

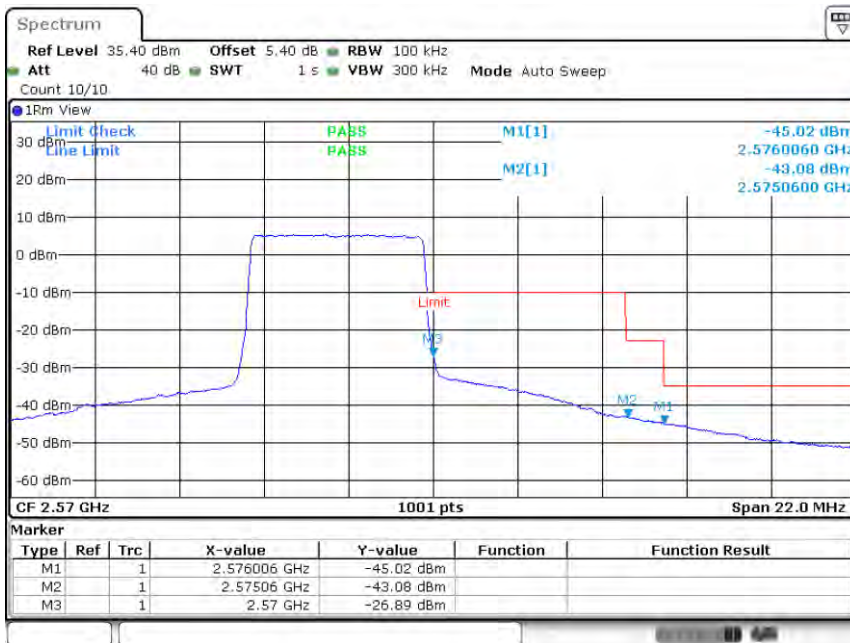


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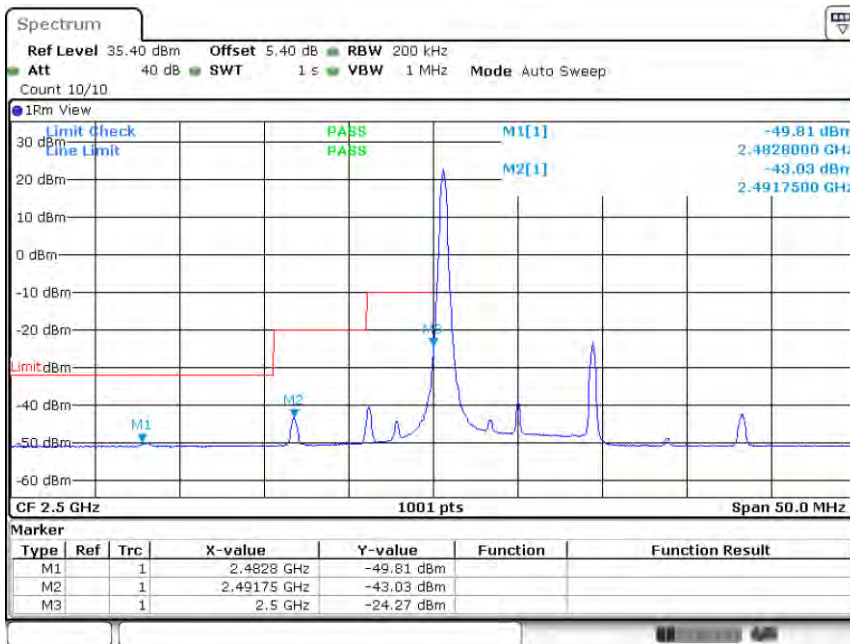
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**Band7-5MHz-16QAM-21425-25RB#0**



Date: 28.JAN.2021 22:54:28

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

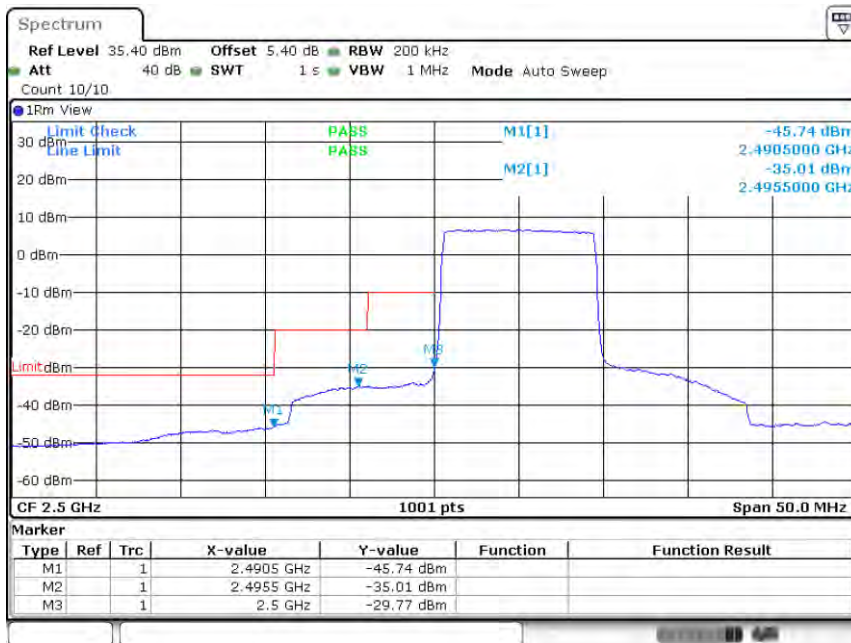


Date: 28.JAN.2021 22:54:54



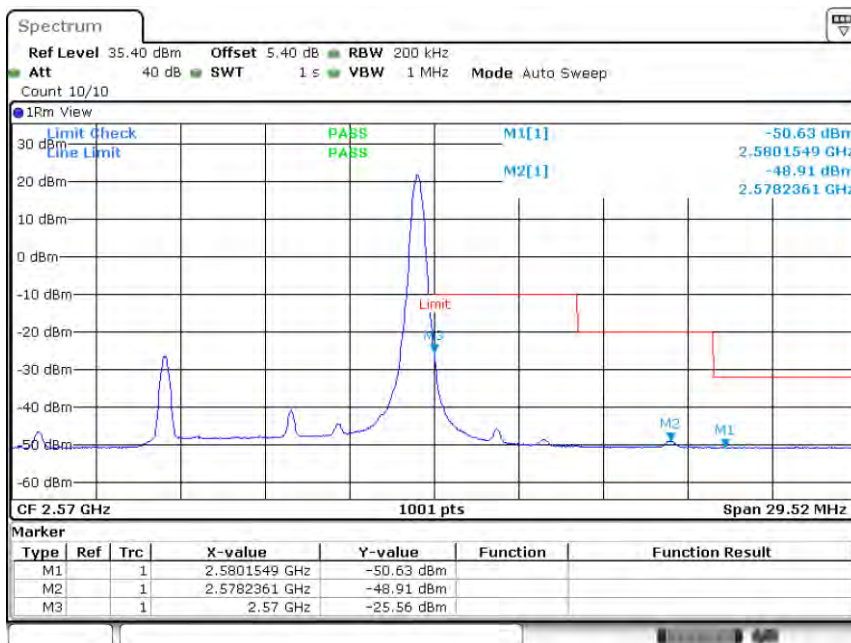
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**Band7-10MHz-QPSK-20800-50RB#0**



Date: 28. JAN 2021 22:56:28

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



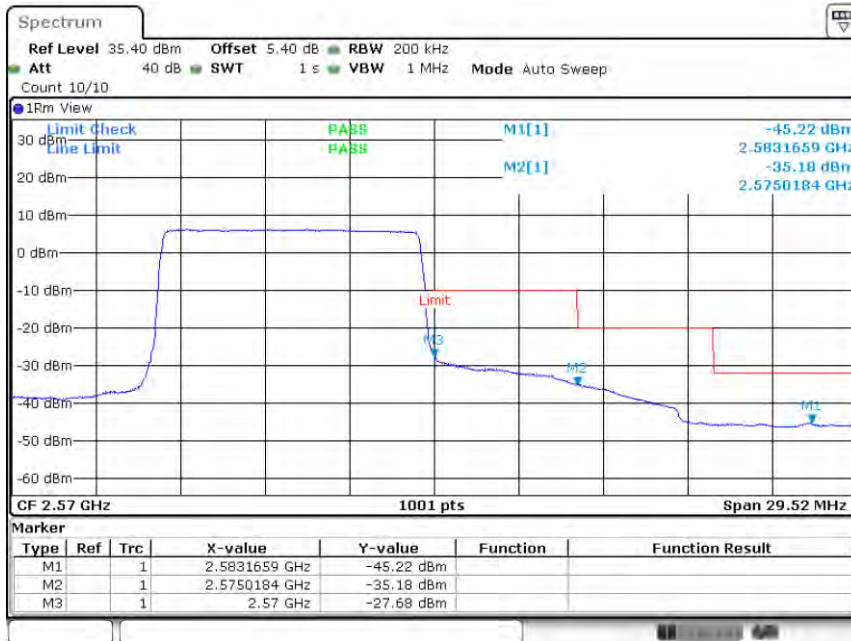
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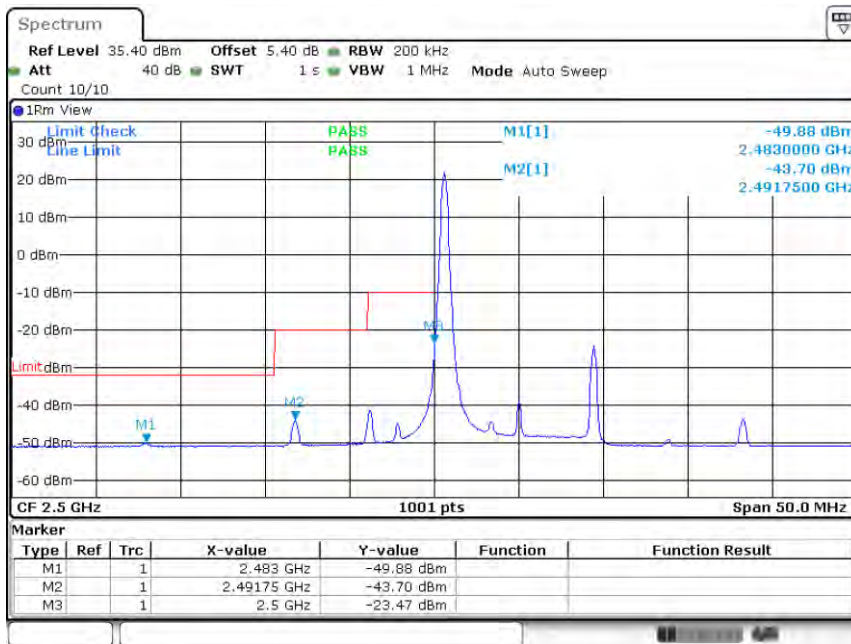
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**Band7-10MHz-QPSK-21400-50RB#0**



Date: 28.JAN.2021 22:57:11

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

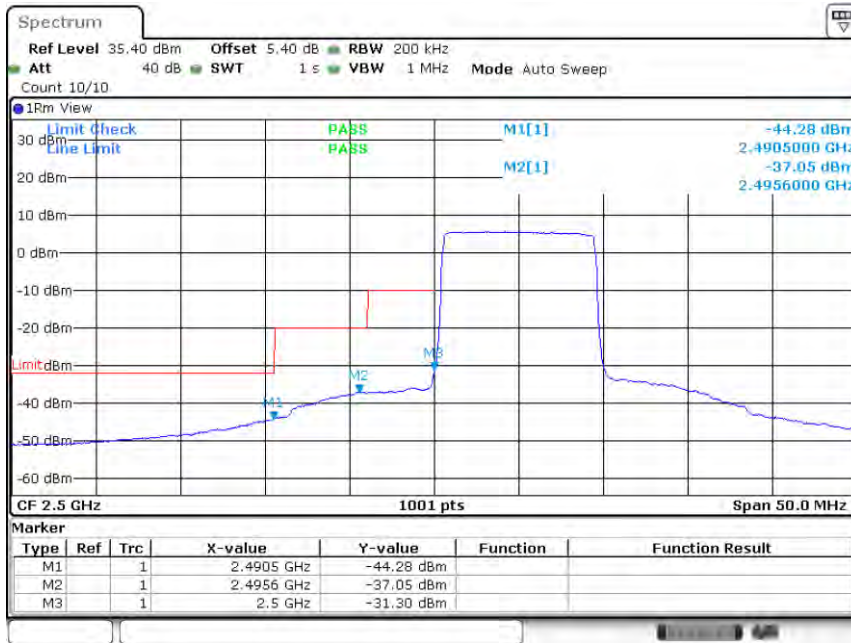


Date: 28.JAN.2021 22:55:16



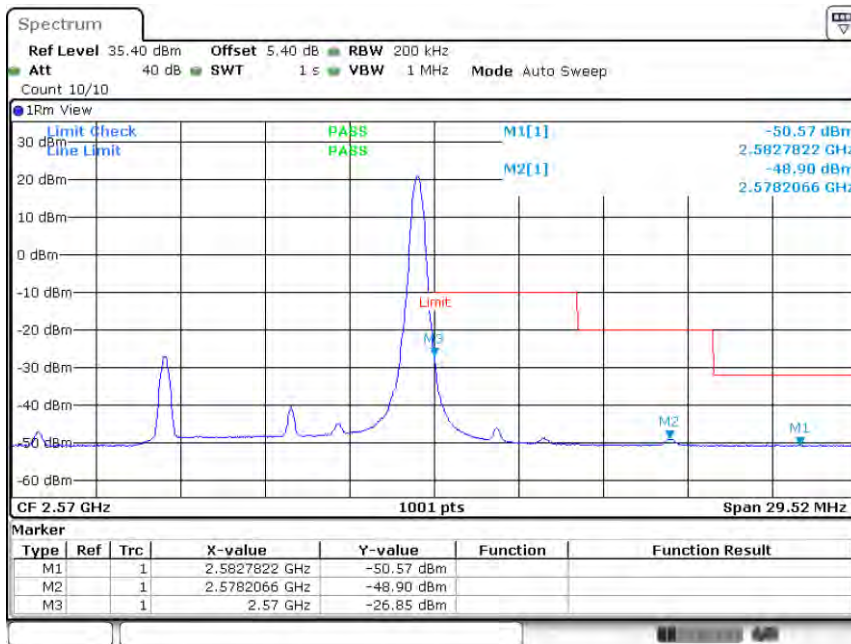
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**Band7-10MHz-16QAM-20800-50RB#0**



Date: 28. JAN 2021 22:56:49

**Band7-10MHz-16QAM-21400-1RB#49**



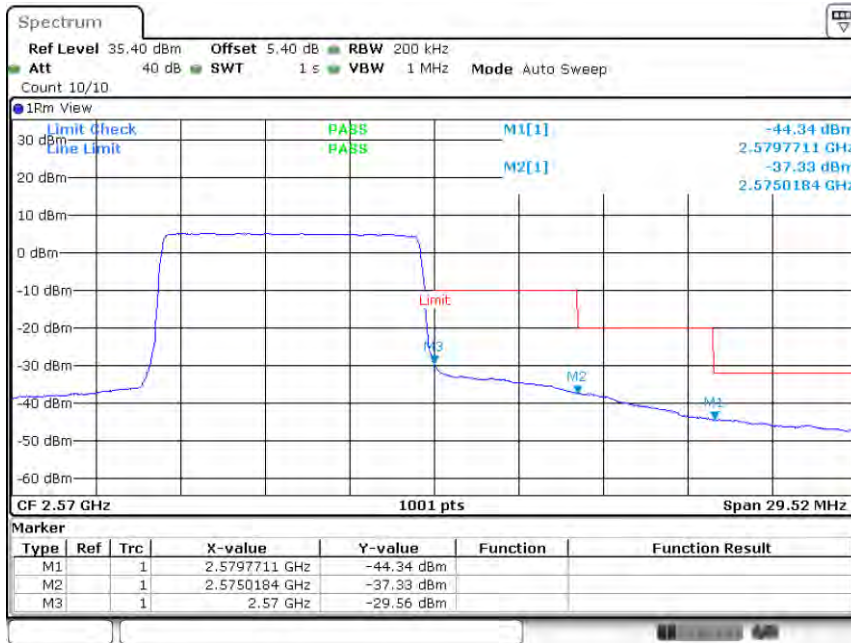
Date: 28. JAN 2021 22:56:02



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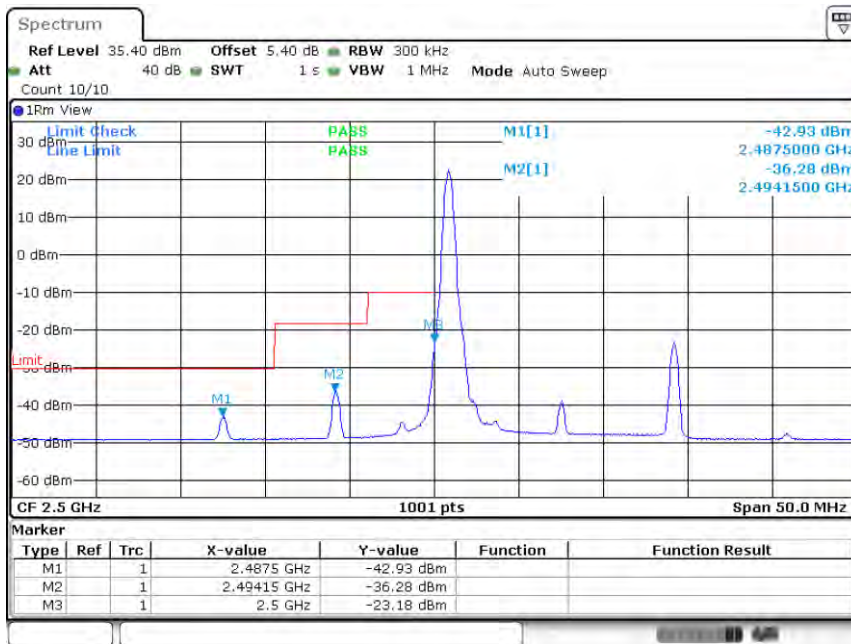


**Band7-10MHz-16QAM-21400-50RB#0**



Date: 28. JAN 2021 22:57:32

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

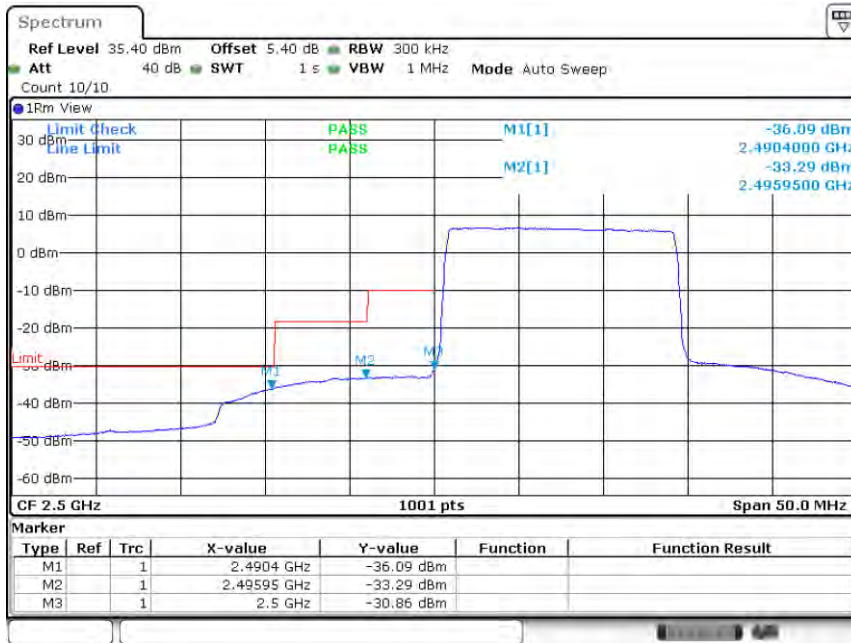


Date: 28. JAN 2021 22:57:58



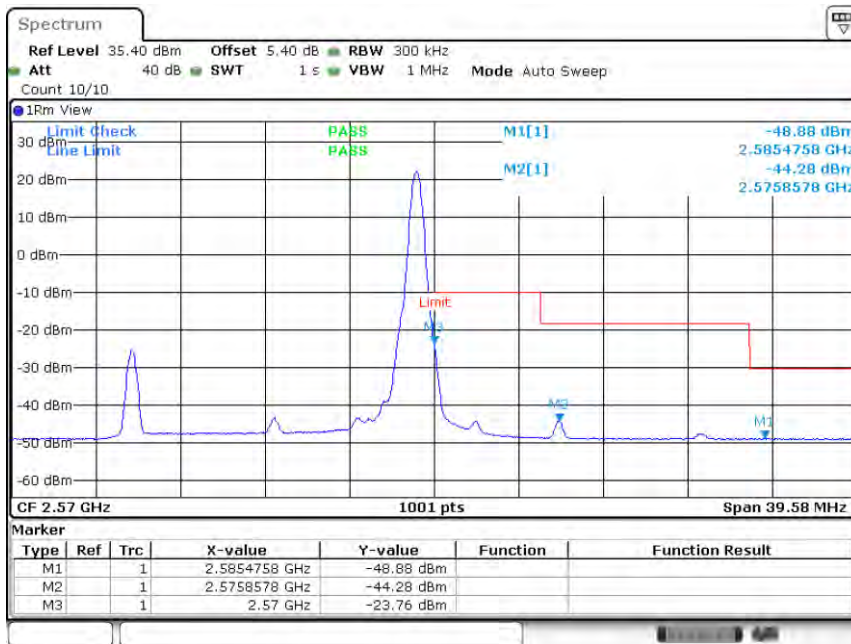
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**Band7-15MHz-QPSK-20825-75RB#0**



Date: 28 JAN 2021 22:59:32

**Band7-15MHz-QPSK-21375-1RB#74**

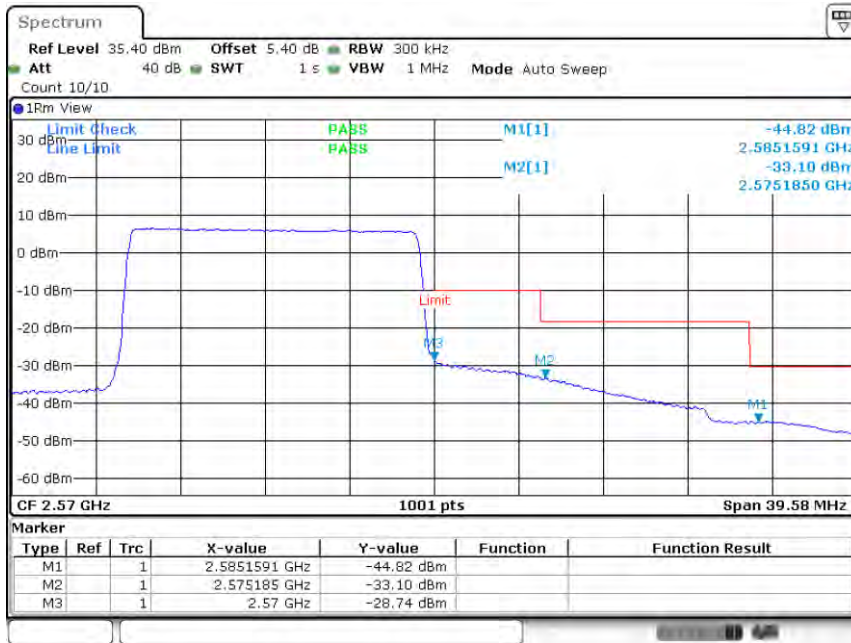


Date: 28 JAN 2021 22:58:45



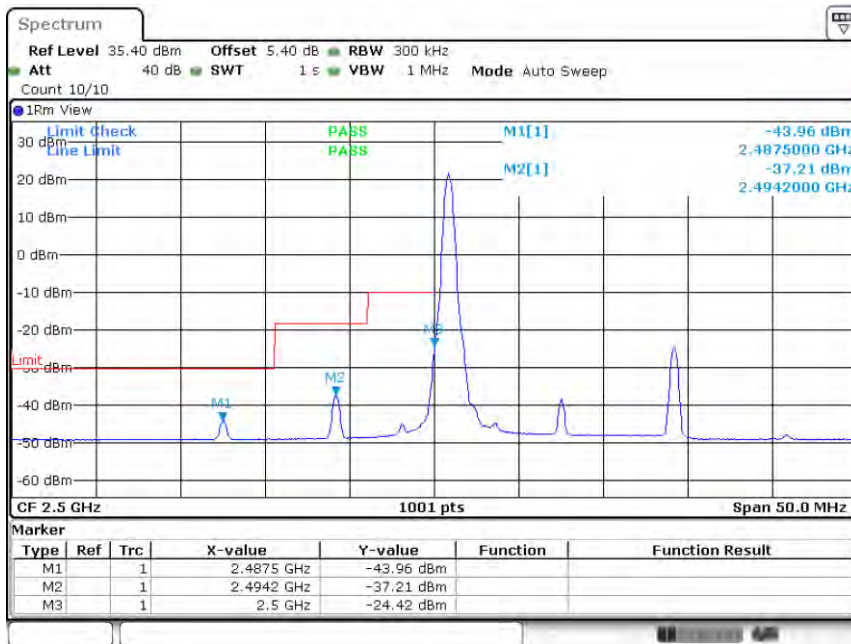
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**Band7-15MHz-QPSK-21375-75RB#0**



Date: 28 JAN 2021 23:00:15

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



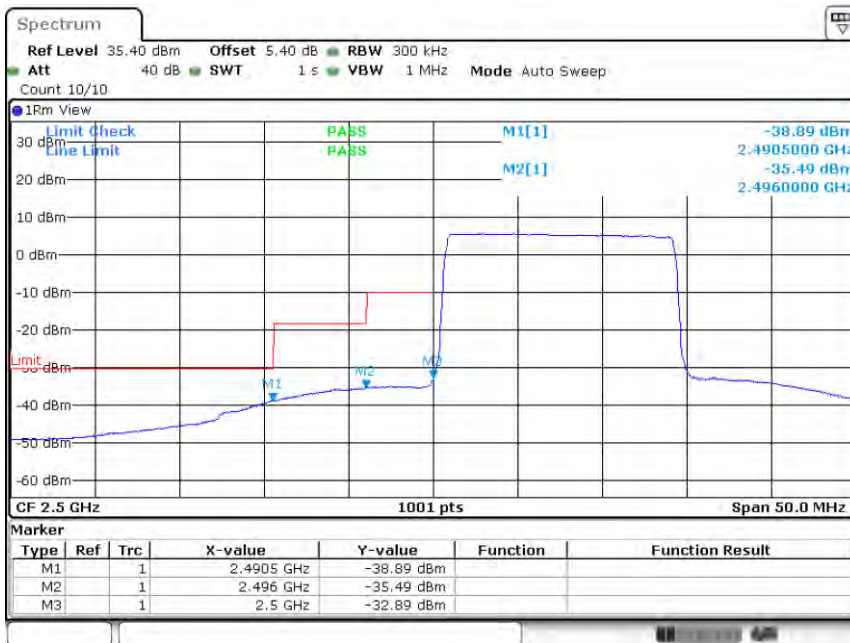
Date: 28 JAN 2021 22:58:20



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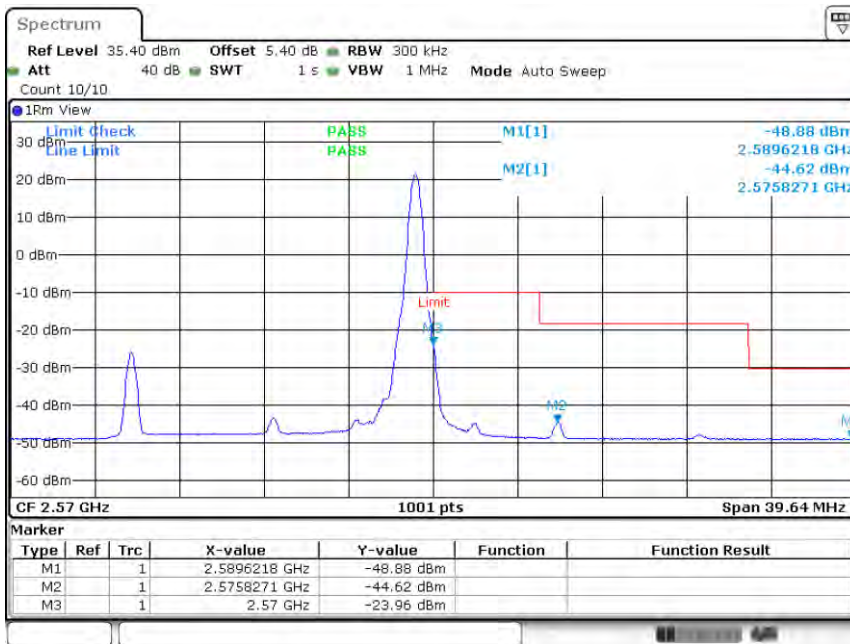


Band7-15MHz-16QAM-20825-75RB#0



Date: 28. JAN 2021 22:59:53

Band7-15MHz-16QAM-21375-1RB#74



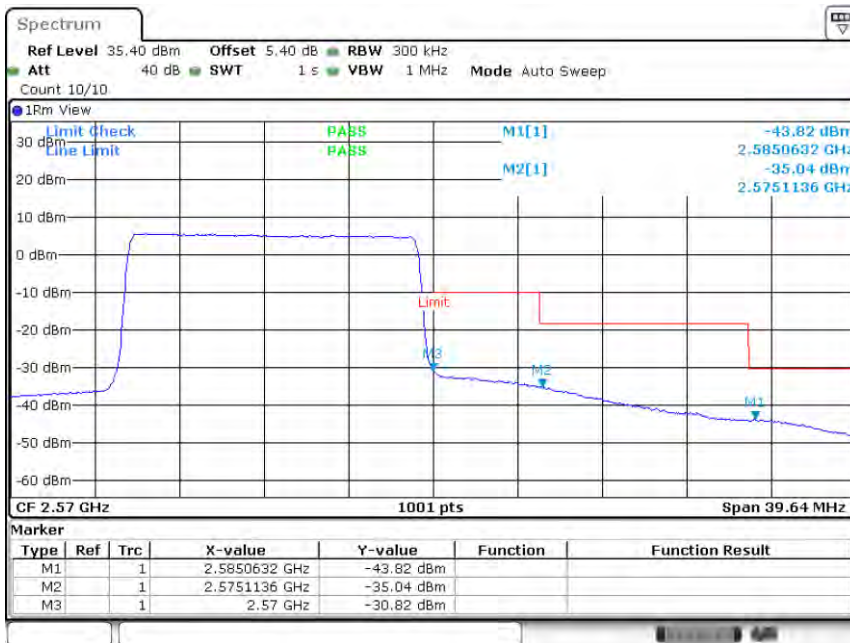
Date: 28. JAN 2021 22:59:06



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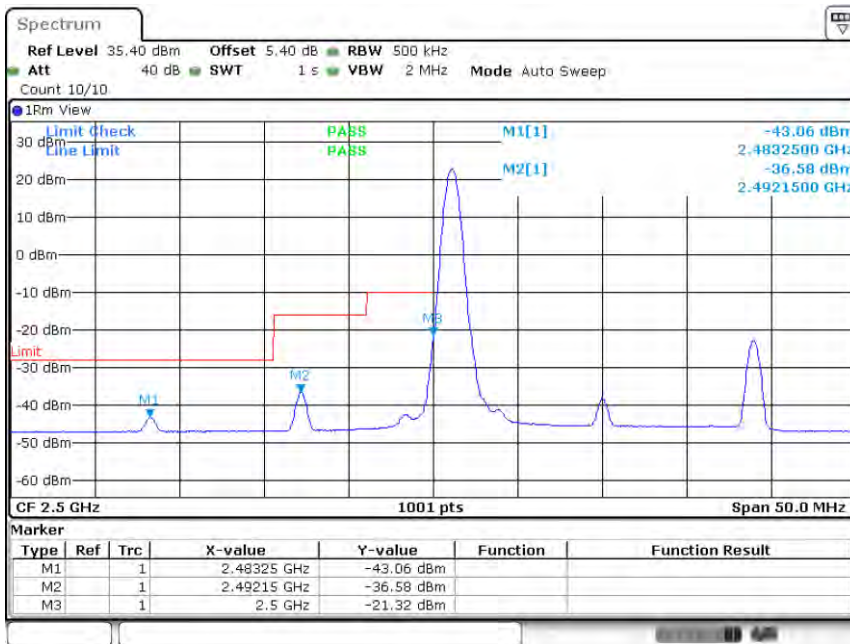


Band7-15MHz-16QAM-21375-75RB#0



Date: 28. JAN 2021 23:00:36

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

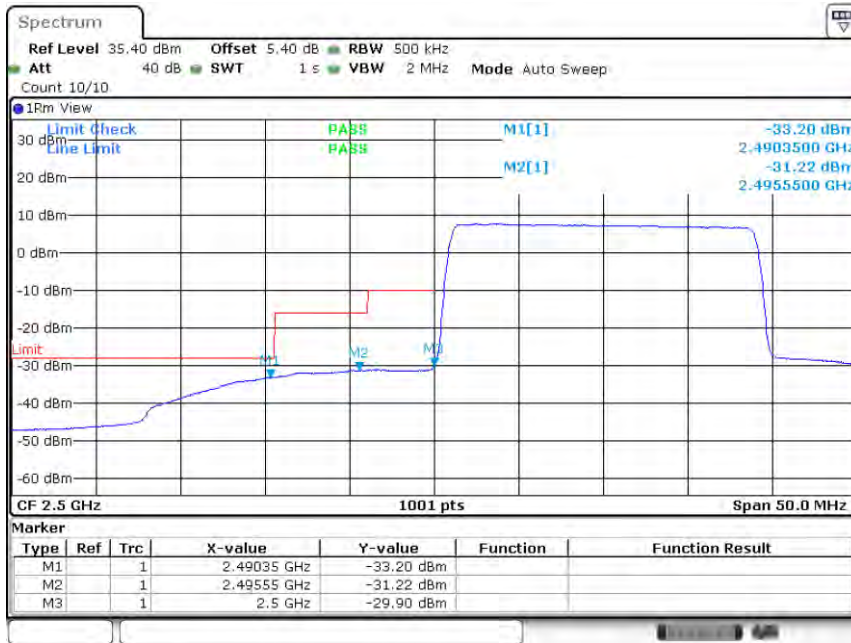


Date: 28. JAN 2021 23:01:02



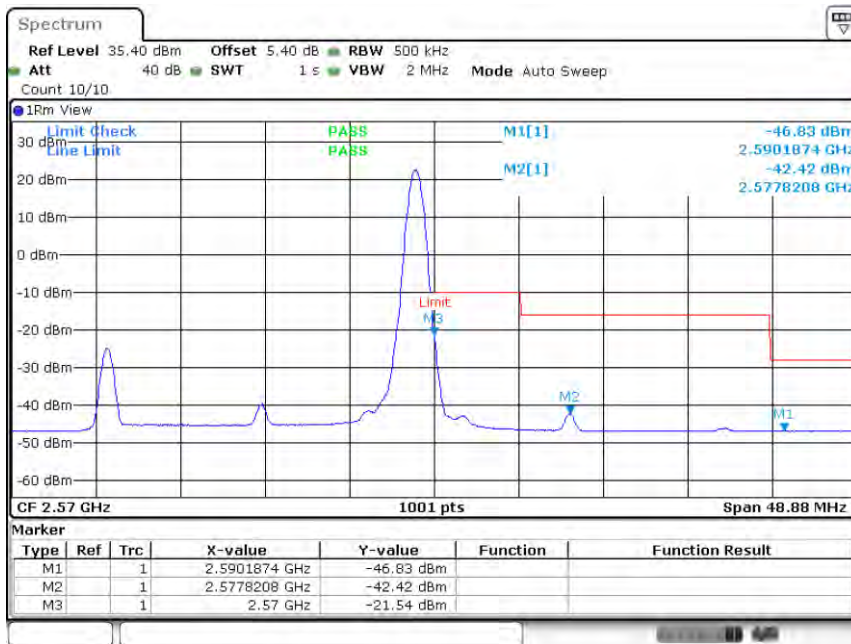
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**Band7-20MHz-QPSK-20850-100RB#0**



Date: 28.JAN.2021 23:02:37

**Band7-20MHz-QPSK-21350-1RB#99**



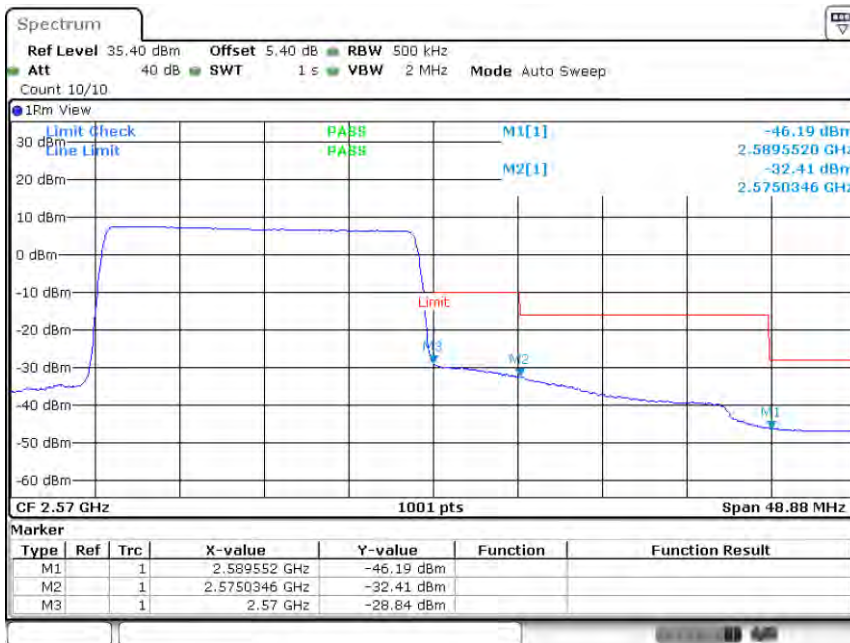
Date: 28.JAN.2021 23:01:49



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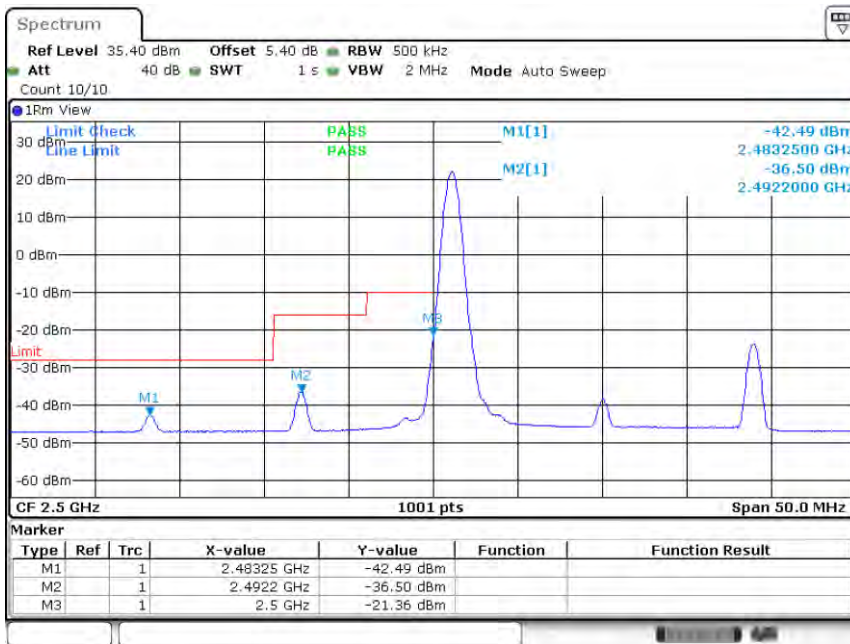


Band7-20MHz-QPSK-21350-100RB#0



Date: 28. JAN 2021 23:03:20

Band7-20MHz-16QAM-20850-1RB#0

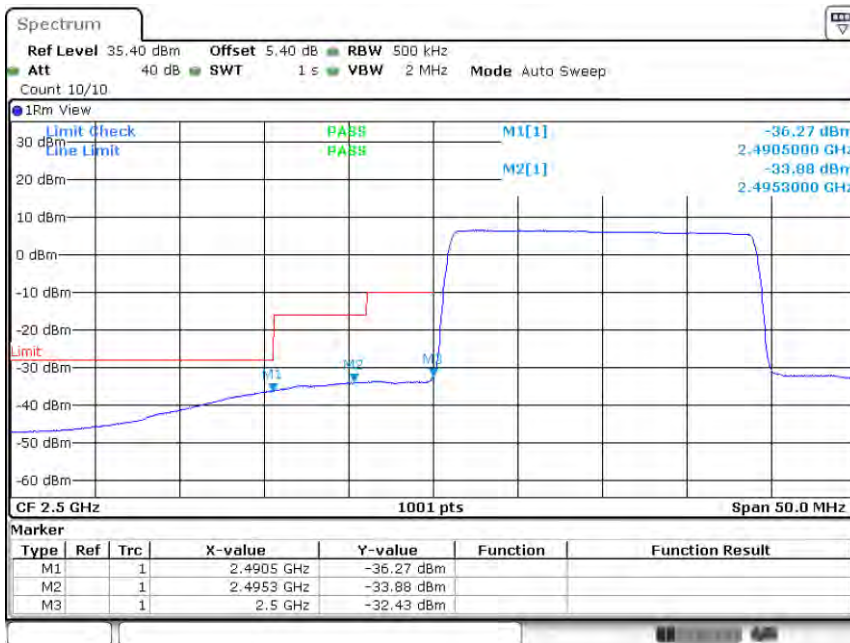


Date: 28. JAN 2021 23:01:23



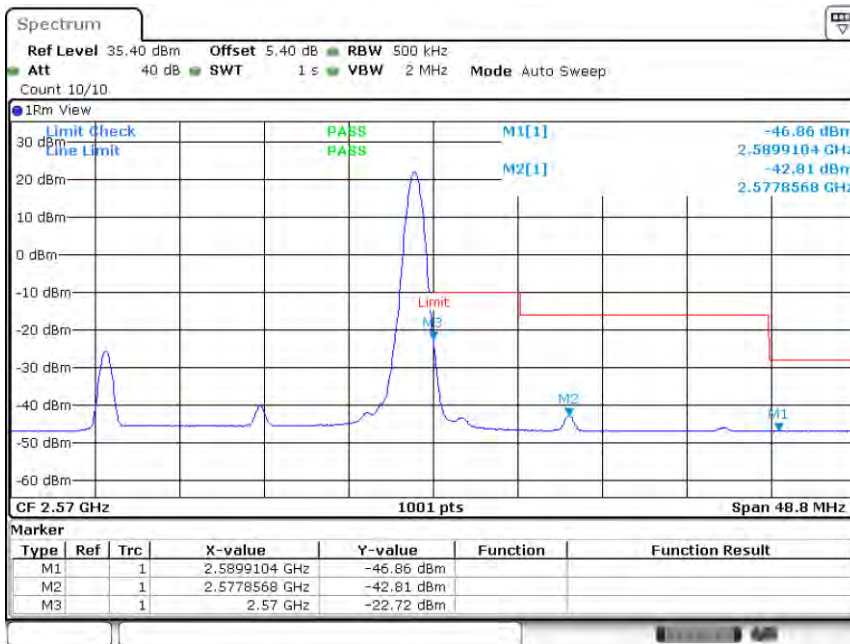
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**Band7-20MHz-16QAM-20850-100RB#0**



Date: 28. JAN 2021 23:02:58

**Band7-20MHz-16QAM-21350-1RB#99**



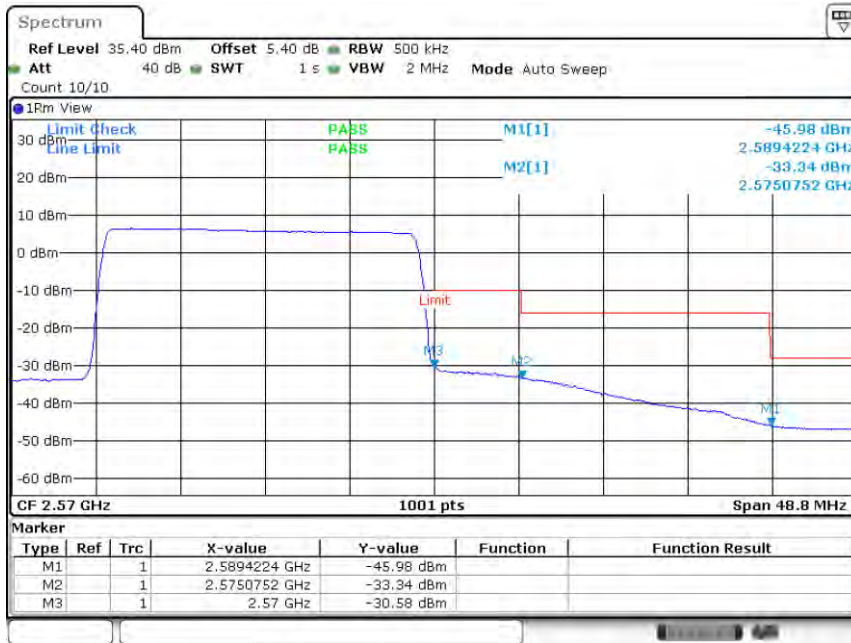
Date: 28. JAN 2021 23:02:10



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**Band7-20MHz-16QAM-21350-100RB#0**



Date: 28. JAN 2021 23:03:41



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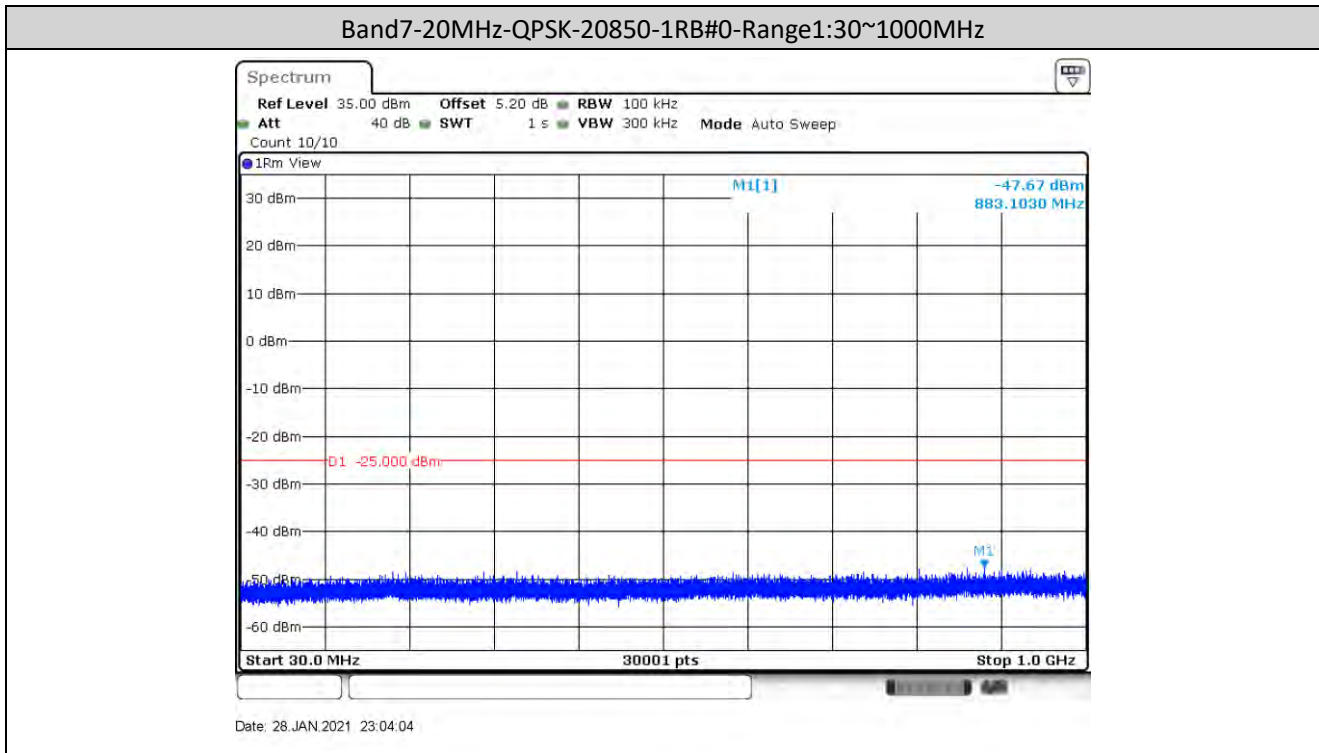
## 6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =  $k * (Span / RBW)$ " with  $k$  between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.

Remark3: The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.

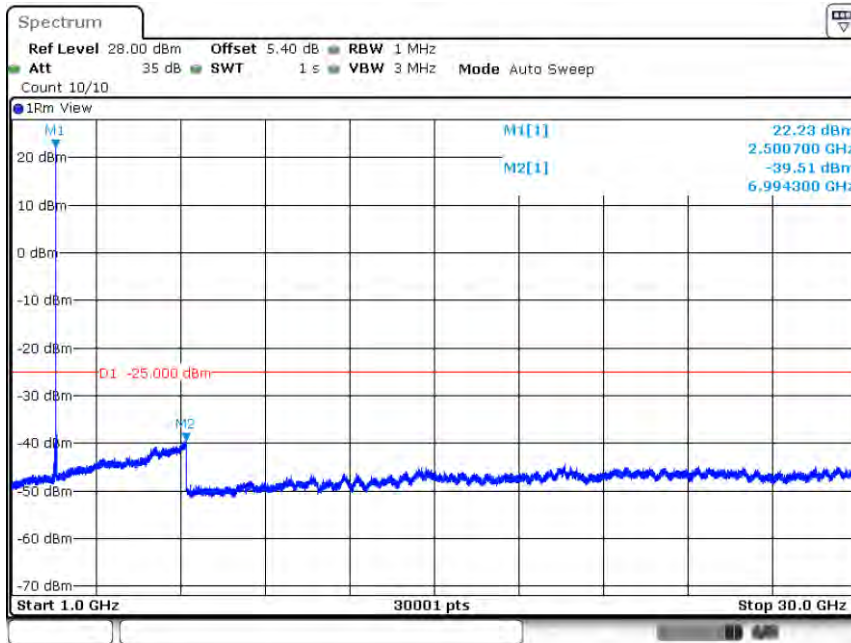
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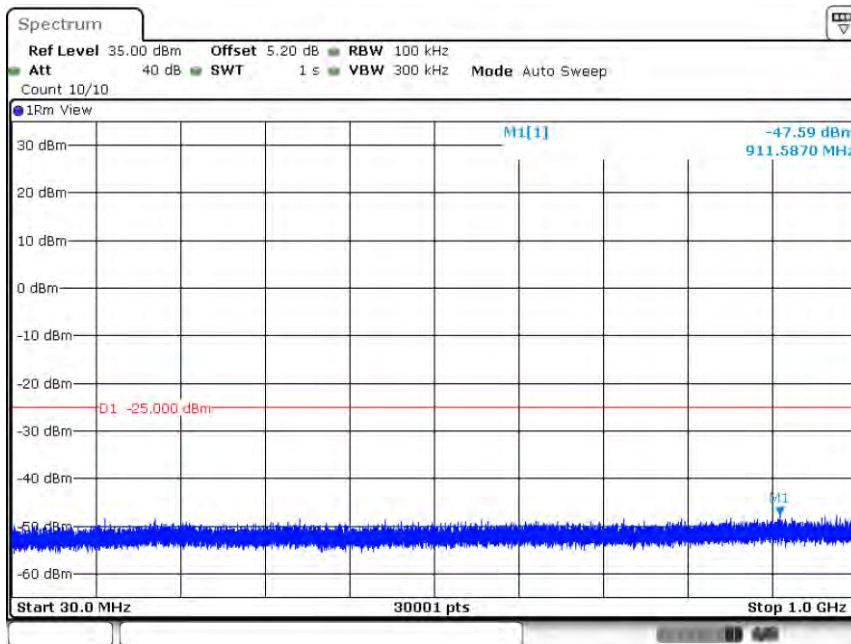
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**Band7-20MHz-QPSK-20850-1RB#0-Range2:1000~30000MHz**



Date: 28 JAN 2021 23:04:20

**Band7-20MHz-QPSK-21100-1RB#0-Range1:30~1000MHz**



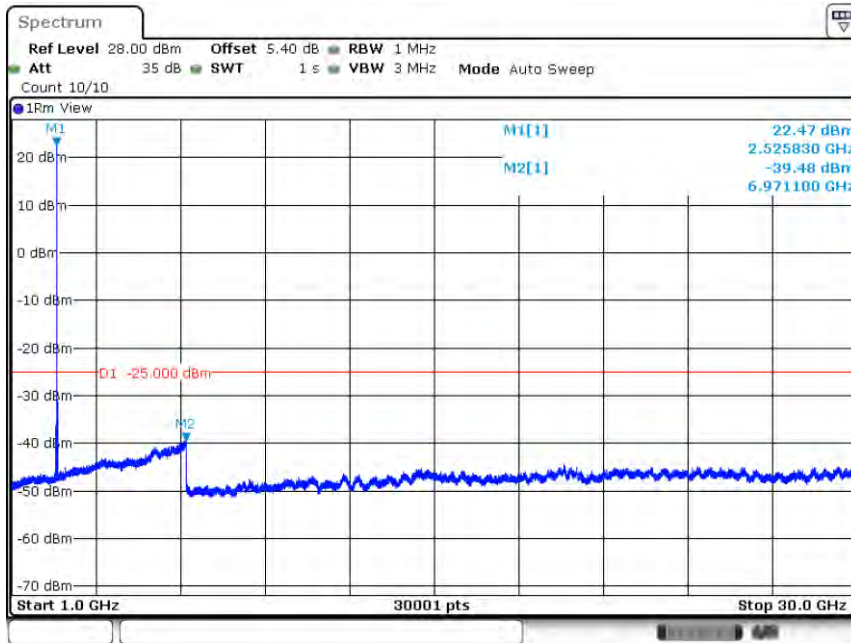
Date: 28 JAN 2021 23:05:14



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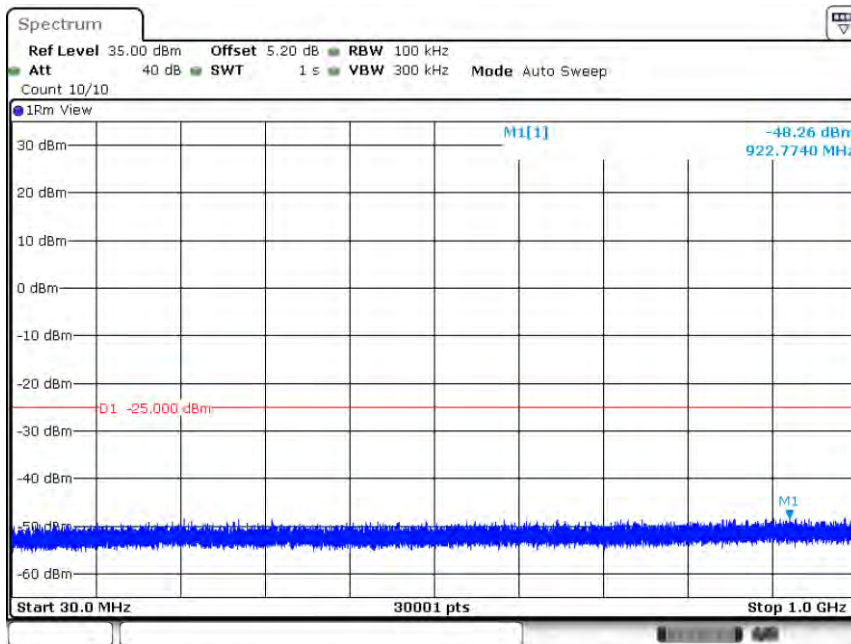
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**Band7-20MHz-QPSK-21100-1RB#0-Range2:1000~30000MHz**



Date: 28 JAN 2021 23:05:31

**Band7-20MHz-QPSK-21350-1RB#0-Range1:30~1000MHz**



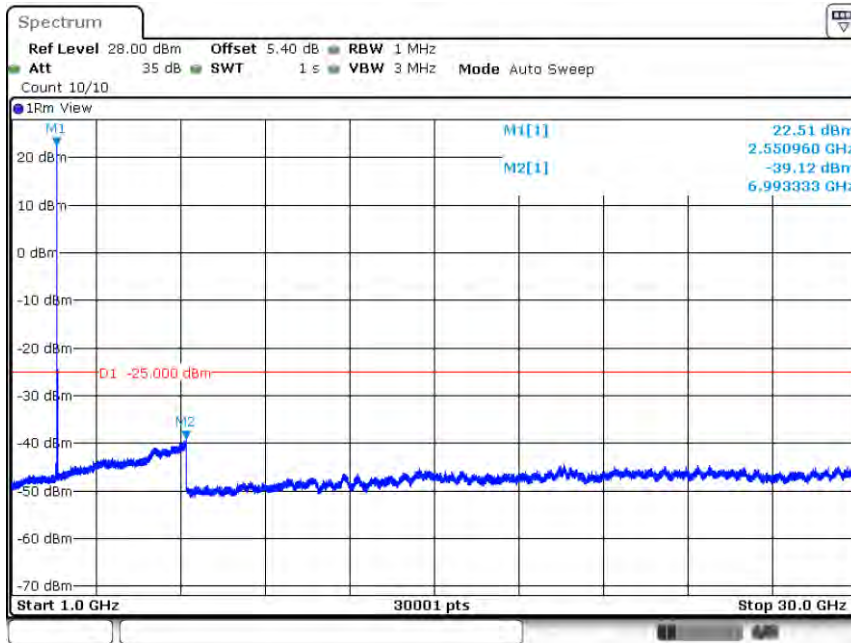
Date: 28 JAN 2021 23:06:25



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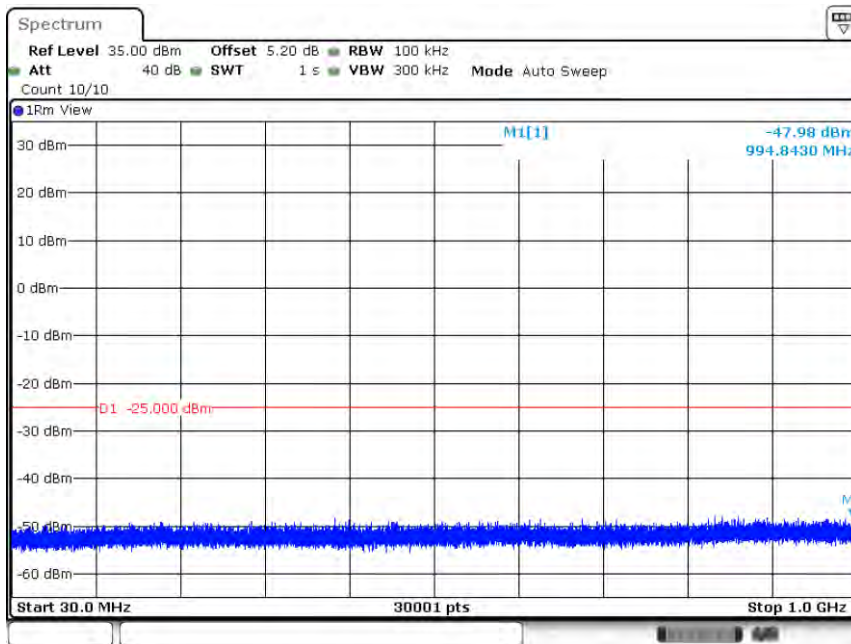
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**Band7-20MHz-QPSK-21350-1RB#0-Range2:1000~30000MHz**



Date: 28 JAN 2021 23:06:41

**Band7-20MHz-16QAM-20850-1RB#0-Range1:30~1000MHz**



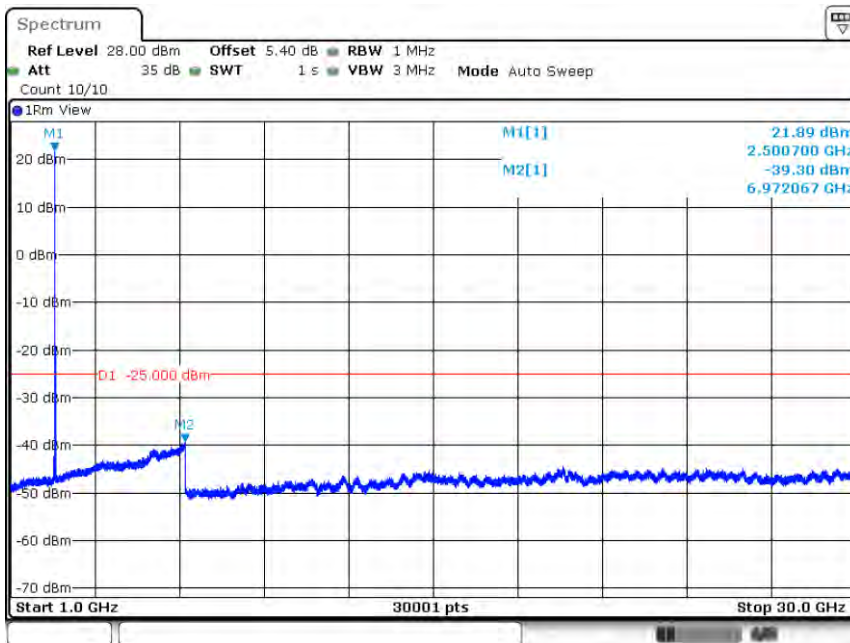
Date: 28 JAN 2021 23:04:39



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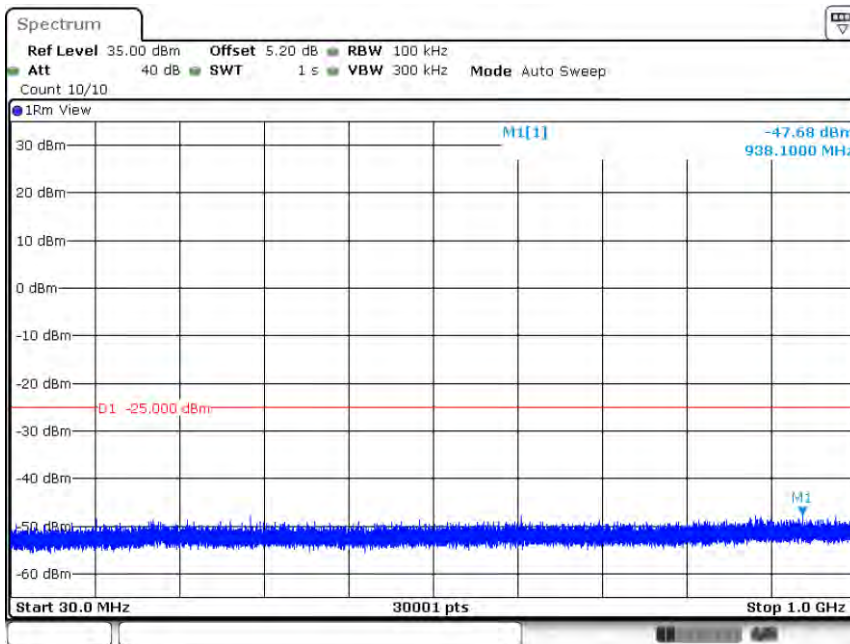
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**Band7-20MHz-16QAM-20850-1RB#0-Range2:1000~30000MHz**



Date: 28 JAN 2021 23:04:55

**Band7-20MHz-16QAM-21100-1RB#0-Range1:30~1000MHz**



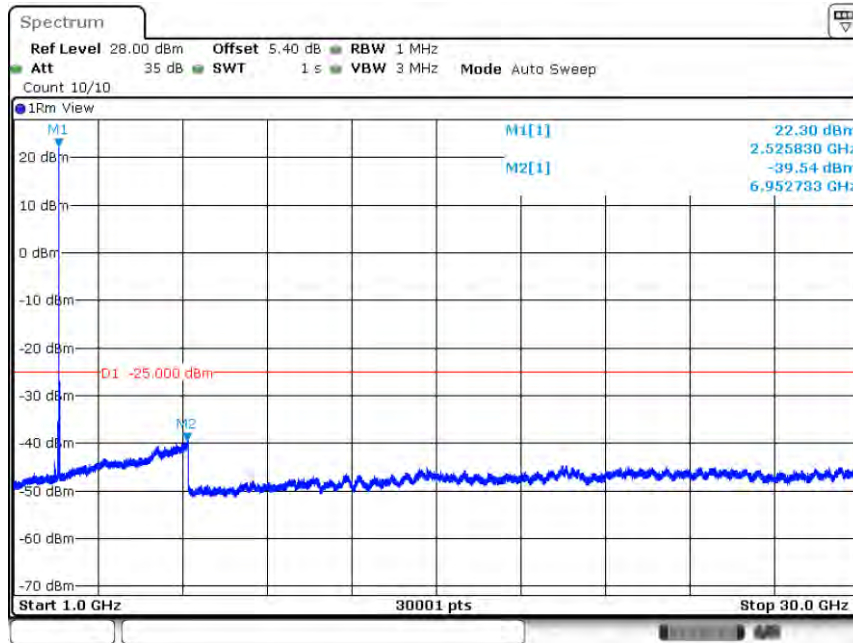
Date: 28 JAN 2021 23:05:50



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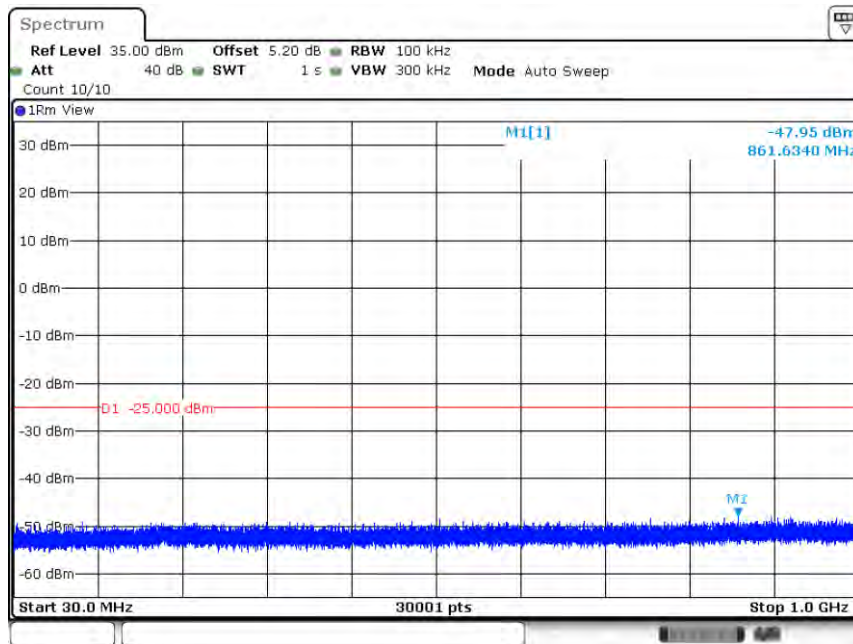
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**Band7-20MHz-16QAM-21100-1RB#0-Range2:1000~30000MHz**



Date: 28.JAN.2021 23:06:06

**Band7-20MHz-16QAM-21350-1RB#0-Range1:30~1000MHz**



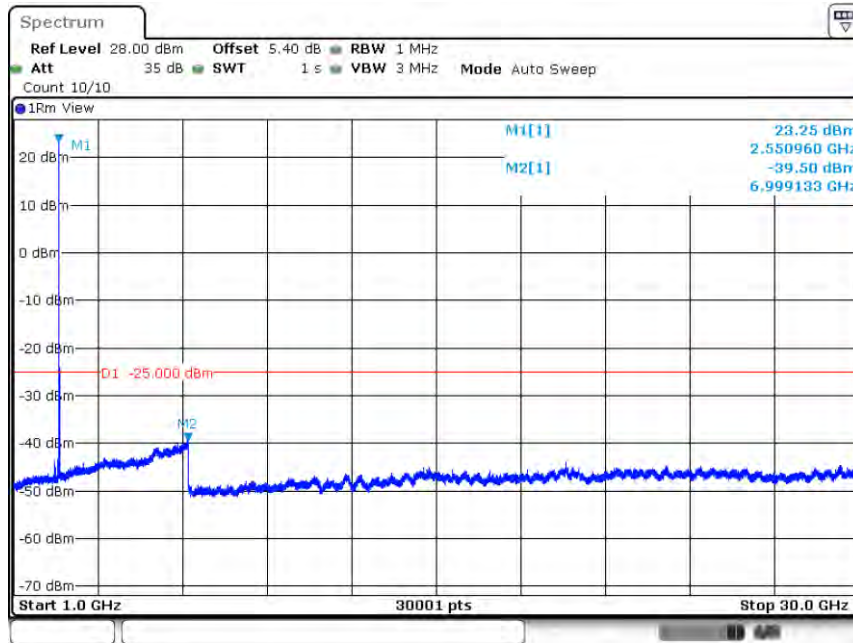
Date: 28.JAN.2021 23:07:00



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**Band7-20MHz-16QAM-21350-1RB#0-Range2:1000~30000MHz**



Date: 28 JAN 2021 23:07:16



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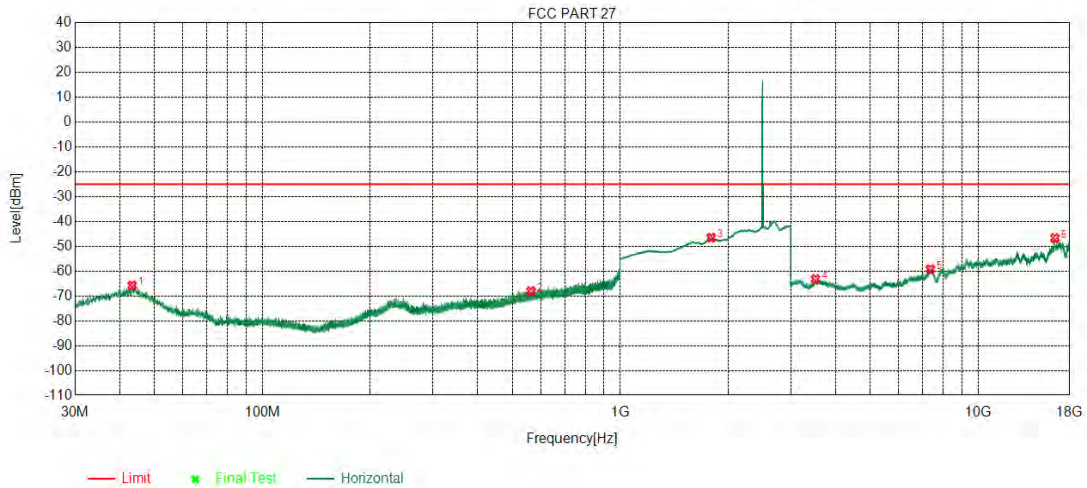


## 7. Field Strength of Spurious Radiation

### 7.1. Test Band = LTE\_7\_TM1 DOWN ANT

#### 7.1.1. Test Channel = Low Channel

#### Test Graph



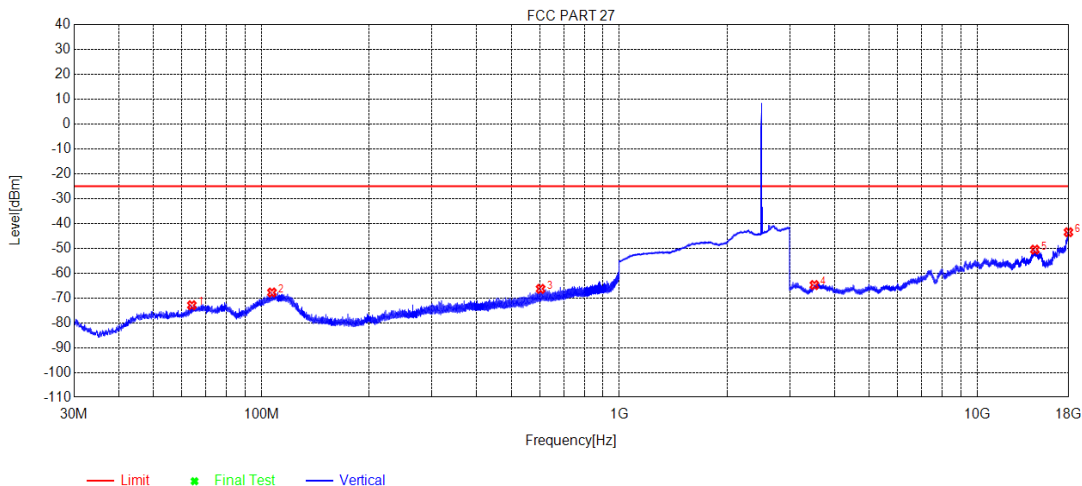
| Suspected Data List |             |               |             |             |             |            |
|---------------------|-------------|---------------|-------------|-------------|-------------|------------|
| NO.                 | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1                   | 43.3382     | -72.68        | -65.75      | -25.00      | 40.75       | Horizontal |
| 2                   | 563.4297    | -74.82        | -68.09      | -25.00      | 43.09       | Horizontal |
| 3                   | 1795.7592   | -72.49        | -46.54      | -25.00      | 21.54       | Horizontal |
| 4                   | 3514.8206   | -54.39        | -63.20      | -25.00      | 38.20       | Horizontal |
| 5                   | 7356.1742   | -59.02        | -59.19      | -25.00      | 34.19       | Horizontal |
| 6                   | 16398.535   | -61.10        | -46.68      | -25.00      | 21.68       | Horizontal |



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**7.2. Test Band = LTE\_7\_TM1 DOWN ANT**  
**7.2.1. Test Channel = Low Channel**

**Test Graph**



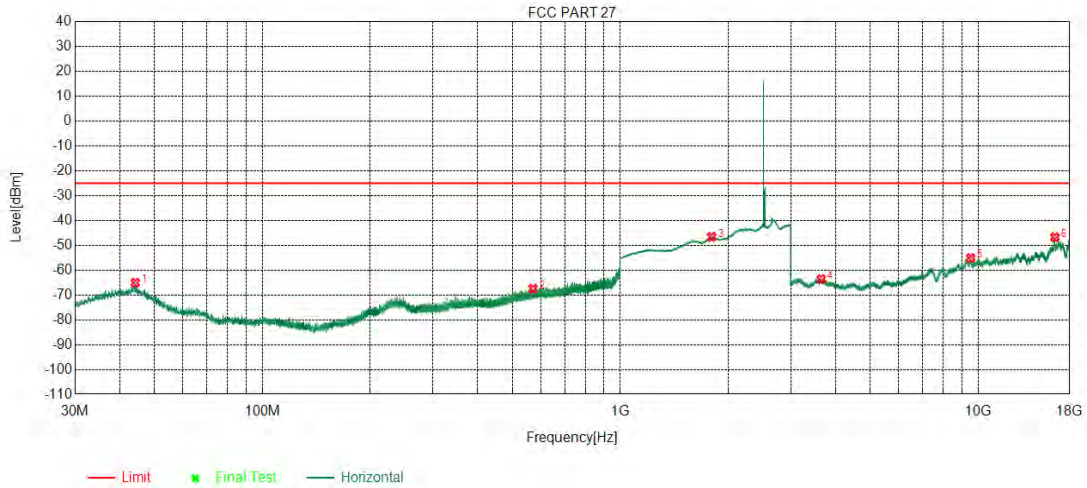
| Suspected Data List |             |               |             |             |             |          |
|---------------------|-------------|---------------|-------------|-------------|-------------|----------|
| NO.                 | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1                   | 64.0002     | -73.77        | -72.93      | -25.00      | 47.93       | Vertical |
| 2                   | 107.1189    | -73.53        | -67.79      | -25.00      | 42.79       | Vertical |
| 3                   | 603.2987    | -73.96        | -66.33      | -25.00      | 41.33       | Vertical |
| 4                   | 3509.4204   | -54.80        | -64.77      | -25.00      | 39.77       | Vertical |
| 5                   | 14501.260   | -63.02        | -50.52      | -25.00      | 25.52       | Vertical |
| 6                   | 17998.800   | -61.35        | -43.50      | -25.00      | 18.50       | Vertical |



**7.3. Test Band = LTE\_7\_TM1 DOWN ANT**

**7.3.1. Test Channel = Mid Channel**

**Test Graph**



| Suspected Data List |             |               |             |             |             |            |
|---------------------|-------------|---------------|-------------|-------------|-------------|------------|
| NO.                 | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1                   | 44.2112     | -72.07        | -65.09      | -25.00      | 40.09       | Horizontal |
| 2                   | 570.7050    | -74.38        | -67.47      | -25.00      | 42.47       | Horizontal |
| 3                   | 1801.7604   | -72.59        | -46.57      | -25.00      | 21.57       | Horizontal |
| 4                   | 3643.8258   | -55.27        | -63.56      | -25.00      | 38.56       | Horizontal |
| 5                   | 9535.4614   | -60.18        | -55.14      | -25.00      | 30.14       | Horizontal |
| 6                   | 16397.335   | -61.12        | -46.72      | -25.00      | 21.72       | Horizontal |

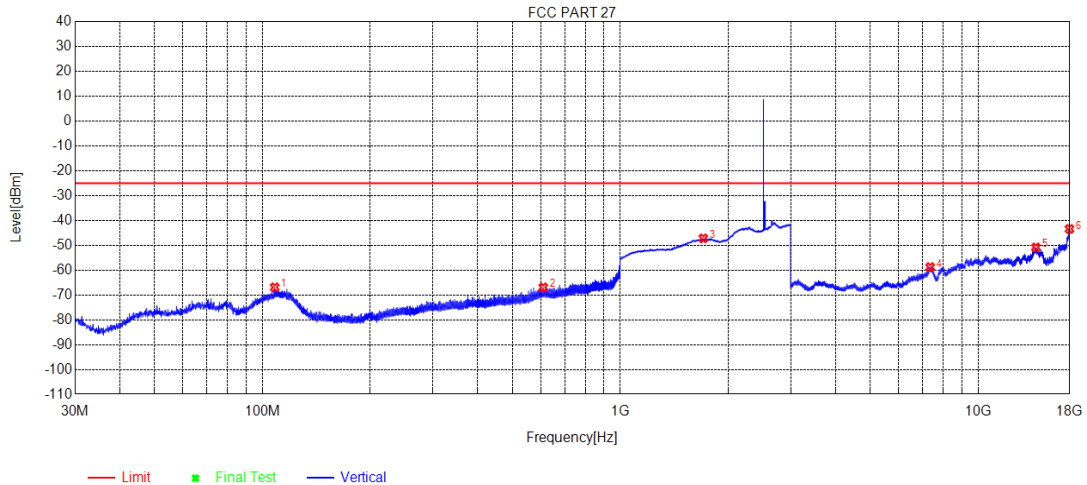


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**7.4. Test Band = LTE\_7\_TM1 DOWN ANT**

**7.4.1. Test Channel = Mid Channel**

**Test Graph**



| Suspected Data List |             |               |             |             |             |          |
|---------------------|-------------|---------------|-------------|-------------|-------------|----------|
| NO.                 | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1                   | 108.3799    | -72.95        | -66.92      | -25.00      | 41.92       | Vertical |
| 2                   | 609.7980    | -74.57        | -66.96      | -25.00      | 41.96       | Vertical |
| 3                   | 1707.3415   | -72.30        | -47.19      | -25.00      | 22.19       | Vertical |
| 4                   | 7347.1739   | -59.31        | -58.80      | -25.00      | 33.80       | Vertical |
| 5                   | 14506.060   | -63.30        | -50.85      | -25.00      | 25.85       | Vertical |
| 6                   | 17996.999   | -61.20        | -43.40      | -25.00      | 18.40       | Vertical |



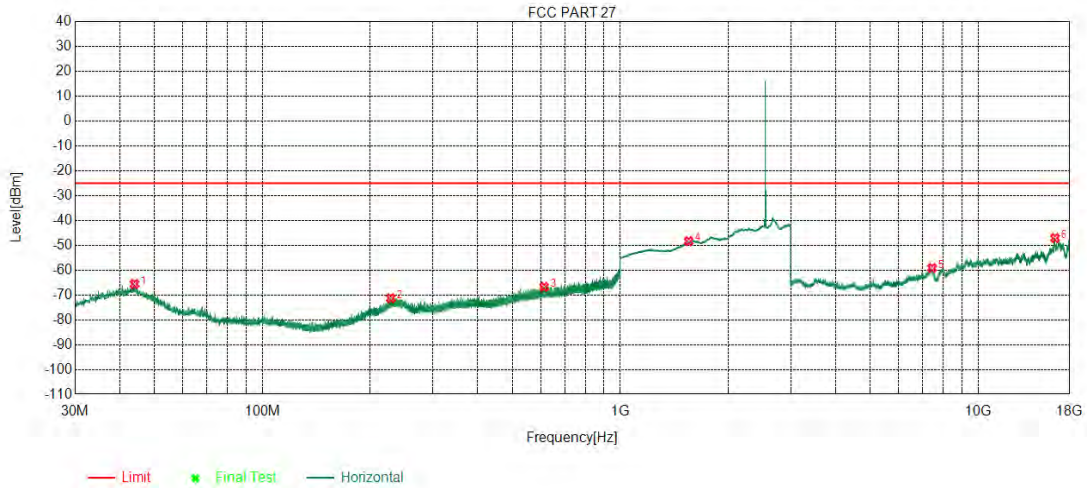
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**7.5. Test Band = LTE\_7\_TM1 DOWN ANT**

**7.5.1. Test Channel = High Channel**

**Test Graph**



| Suspected Data List |             |               |             |             |             |            |
|---------------------|-------------|---------------|-------------|-------------|-------------|------------|
| NO.                 | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1                   | 43.9687     | -72.53        | -65.56      | -25.00      | 40.56       | Horizontal |
| 2                   | 228.6174    | -73.87        | -71.29      | -25.00      | 46.29       | Horizontal |
| 3                   | 612.9021    | -74.41        | -66.71      | -25.00      | 41.71       | Horizontal |
| 4                   | 1553.3107   | -72.09        | -48.32      | -25.00      | 23.32       | Horizontal |
| 5                   | 7437.7775   | -59.10        | -59.14      | -25.00      | 34.14       | Horizontal |
| 6                   | 16402.136   | -61.44        | -47.04      | -25.00      | 22.04       | Horizontal |

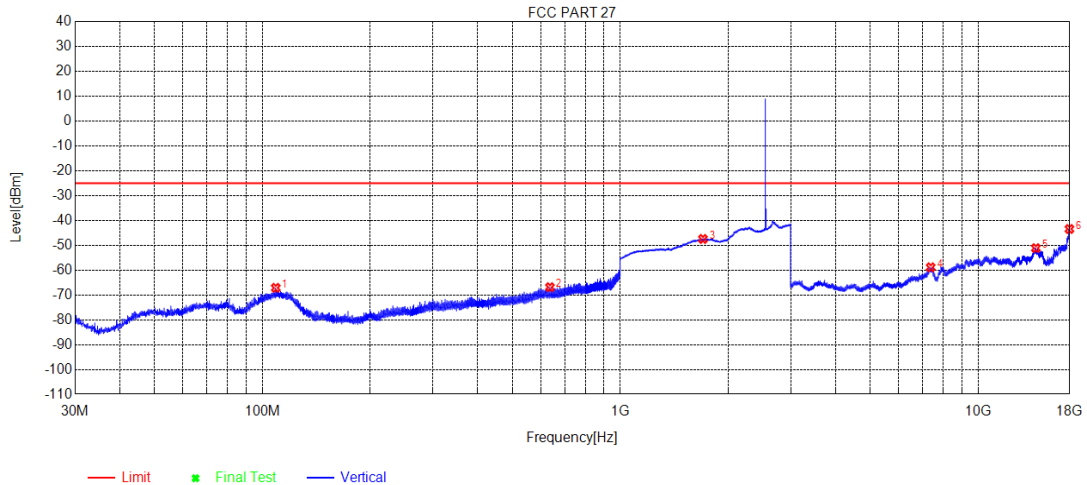


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**7.6. Test Band = LTE\_7\_TM1 DOWN ANT**

**7.6.1. Test Channel = High Channel**

**Test Graph**



| Suspected Data List |             |               |             |             |             |          |
|---------------------|-------------|---------------|-------------|-------------|-------------|----------|
| NO.                 | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1                   | 109.1075    | -73.33        | -67.13      | -25.00      | 42.13       | Vertical |
| 2                   | 636.4743    | -74.38        | -66.86      | -25.00      | 41.86       | Vertical |
| 3                   | 1702.9406   | -72.54        | -47.43      | -25.00      | 22.43       | Vertical |
| 4                   | 7372.3749   | -59.40        | -58.86      | -25.00      | 33.86       | Vertical |
| 5                   | 14500.660   | -63.63        | -51.13      | -25.00      | 26.13       | Vertical |
| 6                   | 17996.999   | -61.21        | -43.41      | -25.00      | 18.41       | Vertical |

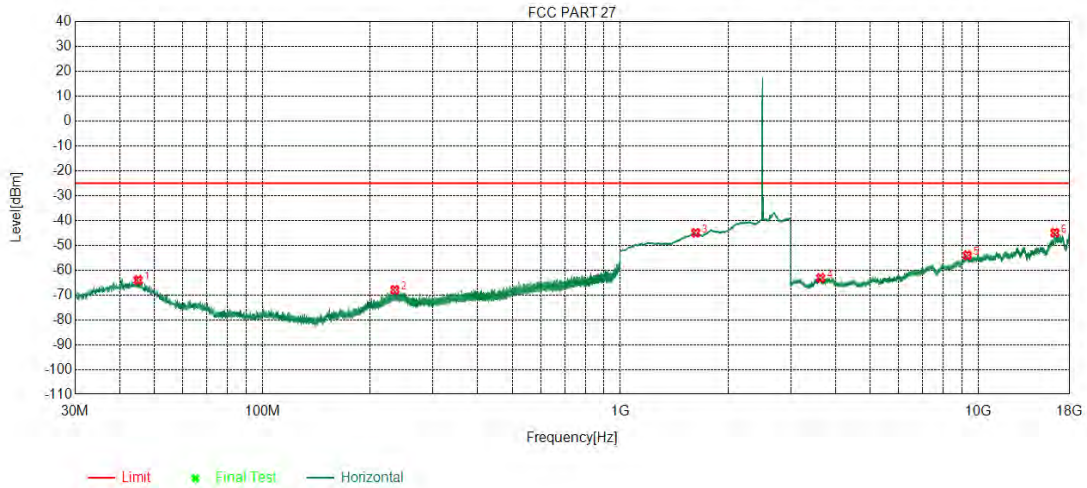


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**7.7. Test Band = LTE\_7\_TM1 UP ANT**

**7.7.1. Test Channel = Low Channel**

**Test Graph**



| Suspected Data List |             |               |             |             |             |            |
|---------------------|-------------|---------------|-------------|-------------|-------------|------------|
| NO.                 | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1                   | 44.9872     | -71.00        | -63.98      | -25.00      | 38.98       | Horizontal |
| 2                   | 234.8257    | -70.76        | -67.95      | -25.00      | 42.95       | Horizontal |
| 3                   | 1626.9254   | -69.35        | -44.96      | -25.00      | 19.96       | Horizontal |
| 4                   | 3631.8253   | -54.91        | -63.15      | -25.00      | 38.15       | Horizontal |
| 5                   | 9332.6533   | -59.62        | -53.99      | -25.00      | 28.99       | Horizontal |
| 6                   | 16400.336   | -59.36        | -44.92      | -25.00      | 19.92       | Horizontal |

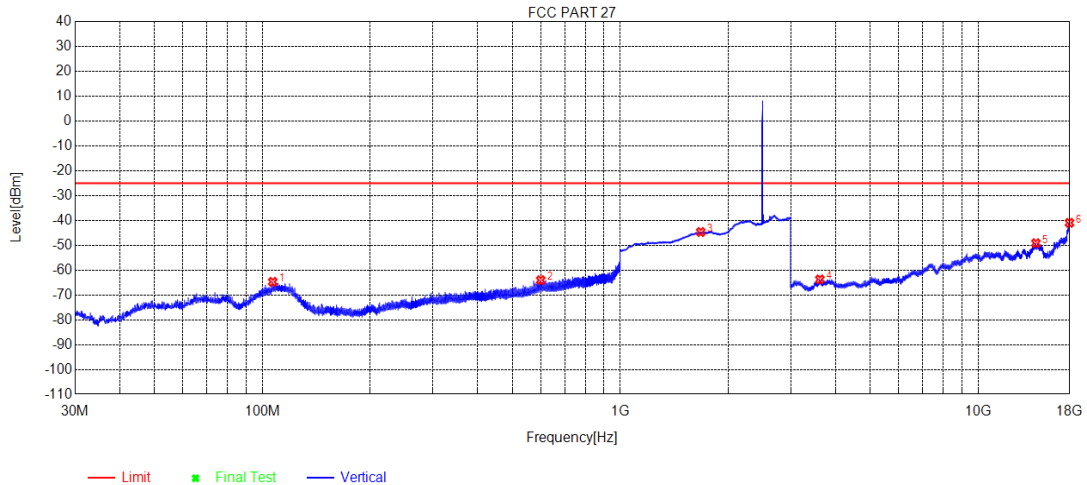


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**7.8. Test Band = LTE\_7\_TM1 UP ANT**

**7.8.1. Test Channel = Low Channel**

**Test Graph**



| Suspected Data List |             |               |             |             |             |          |
|---------------------|-------------|---------------|-------------|-------------|-------------|----------|
| NO.                 | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1                   | 106.9733    | -70.41        | -64.71      | -25.00      | 39.71       | Vertical |
| 2                   | 599.8065    | -71.66        | -64.03      | -25.00      | 39.03       | Vertical |
| 3                   | 1679.3359   | -69.62        | -44.63      | -25.00      | 19.63       | Vertical |
| 4                   | 3613.8246   | -54.61        | -63.73      | -25.00      | 38.73       | Vertical |
| 5                   | 14501.860   | -61.63        | -49.14      | -25.00      | 24.14       | Vertical |
| 6                   | 17998.199   | -58.76        | -40.93      | -25.00      | 15.93       | Vertical |



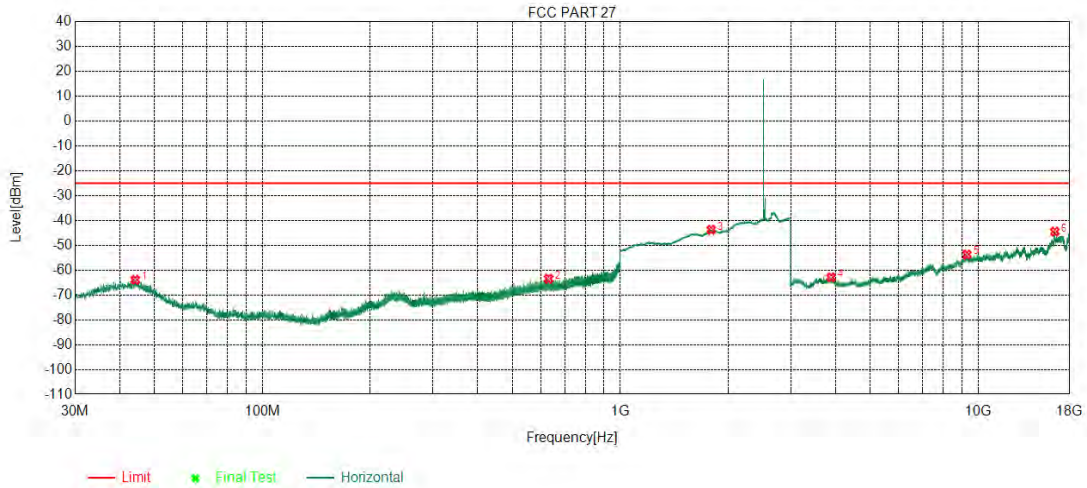
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**7.9. Test Band = LTE\_7\_TM1 UP ANT**

**7.9.1. Test Channel = Mid Channel**

**Test Graph**



| Suspected Data List |             |               |             |             |             |            |
|---------------------|-------------|---------------|-------------|-------------|-------------|------------|
| NO.                 | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1                   | 44.1627     | -70.86        | -63.88      | -25.00      | 38.88       | Horizontal |
| 2                   | 630.9450    | -71.22        | -63.44      | -25.00      | 38.44       | Horizontal |
| 3                   | 1796.9594   | -69.70        | -43.73      | -25.00      | 18.73       | Horizontal |
| 4                   | 3882.6353   | -54.81        | -62.88      | -25.00      | 37.88       | Horizontal |
| 5                   | 9300.2520   | -59.64        | -53.70      | -25.00      | 28.70       | Horizontal |
| 6                   | 16382.935   | -58.61        | -44.47      | -25.00      | 19.47       | Horizontal |

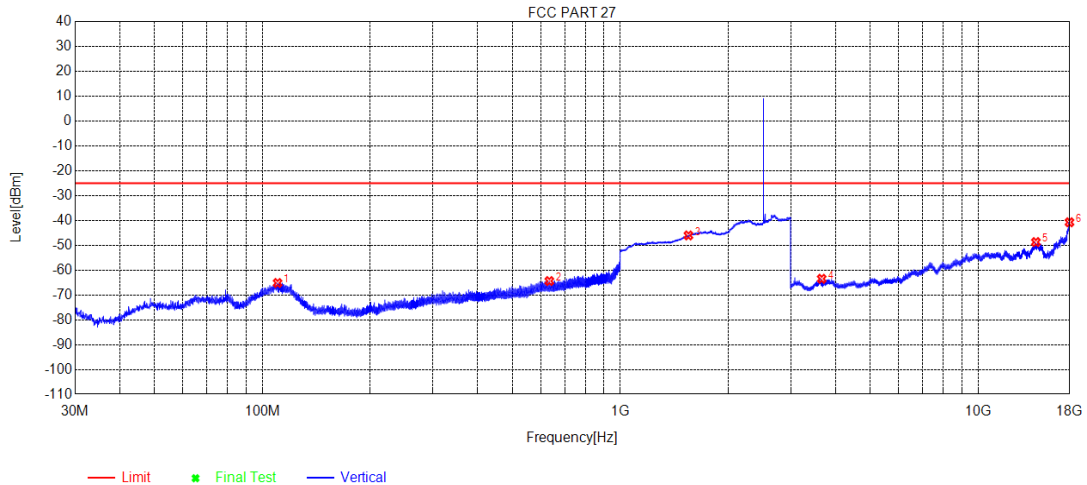


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**7.10. Test Band = LTE\_7\_TM1 UP ANT**

**7.10.1. Test Channel = Mid Channel**

**Test Graph**



| Suspected Data List |             |               |             |             |             |          |
|---------------------|-------------|---------------|-------------|-------------|-------------|----------|
| NO.                 | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1                   | 110.3685    | -71.54        | -65.16      | -25.00      | 40.16       | Vertical |
| 2                   | 634.0492    | -71.91        | -64.39      | -25.00      | 39.39       | Vertical |
| 3                   | 1551.3103   | -69.76        | -46.00      | -25.00      | 21.00       | Vertical |
| 4                   | 3656.4263   | -54.23        | -63.47      | -25.00      | 38.47       | Vertical |
| 5                   | 14499.460   | -61.20        | -48.69      | -25.00      | 23.69       | Vertical |
| 6                   | 17998.199   | -58.54        | -40.71      | -25.00      | 15.71       | Vertical |

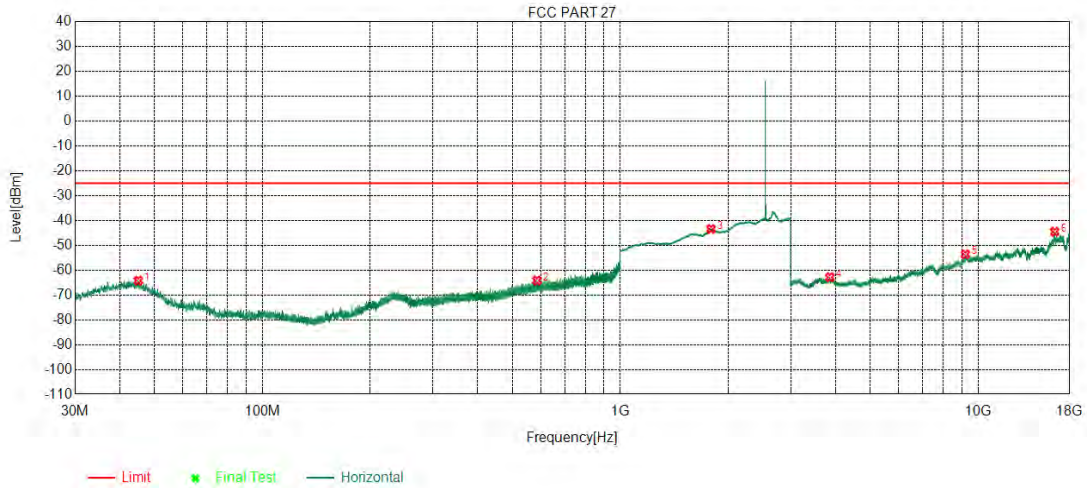


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**7.11. Test Band = LTE\_7\_TM1 UP ANT**

**7.11.1. Test Channel = High Channel**

**Test Graph**



| Suspected Data List |             |               |             |             |             |            |
|---------------------|-------------|---------------|-------------|-------------|-------------|------------|
| NO.                 | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity   |
| 1                   | 45.0358     | -71.23        | -64.23      | -25.00      | 39.23       | Horizontal |
| 2                   | 585.4013    | -71.44        | -64.16      | -25.00      | 39.16       | Horizontal |
| 3                   | 1794.1588   | -69.30        | -43.39      | -25.00      | 18.39       | Horizontal |
| 4                   | 3854.4342   | -54.68        | -62.82      | -25.00      | 37.82       | Horizontal |
| 5                   | 9219.2488   | -58.36        | -53.62      | -25.00      | 28.62       | Horizontal |
| 6                   | 16376.935   | -58.54        | -44.51      | -25.00      | 19.51       | Horizontal |

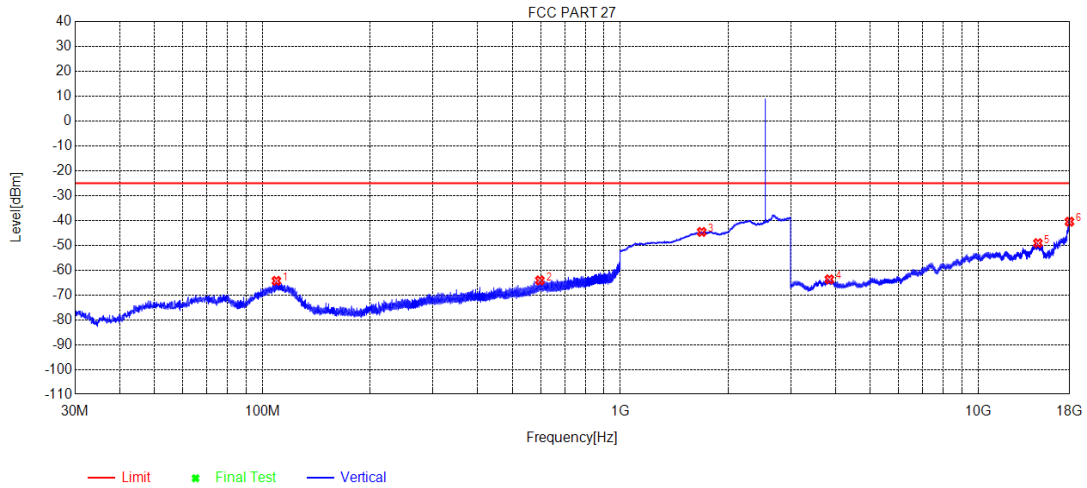


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**7.12. Test Band = LTE\_7\_TM1 UP ANT**

**7.12.1. Test Channel = High Channel**

**Test Graph**



| Suspected Data List |             |               |             |             |             |          |
|---------------------|-------------|---------------|-------------|-------------|-------------|----------|
| NO.                 | Freq. [MHz] | Reading [dBm] | Level [dBm] | Limit [dBm] | Margin [dB] | Polarity |
| 1                   | 109.5440    | -70.61        | -64.31      | -25.00      | 39.31       | Vertical |
| 2                   | 596.6538    | -71.61        | -64.14      | -25.00      | 39.14       | Vertical |
| 3                   | 1689.7379   | -69.65        | -44.60      | -25.00      | 19.60       | Vertical |
| 4                   | 3840.6336   | -54.93        | -63.71      | -25.00      | 38.71       | Vertical |
| 5                   | 14691.467   | -61.22        | -49.11      | -25.00      | 24.11       | Vertical |
| 6                   | 17996.999   | -58.28        | -40.48      | -25.00      | 15.48       | Vertical |

**Remark:**

- 1 According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2 The disturbance above 18G and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data displayed in this report.
- 3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.



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## 8. Frequency Stability

### 8.1. Frequency Vs Voltage

| Band  | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|-------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band7 | 20MHz     | QPSK       | 20850   | 100RB#0      | VL            | NT               | 2.80           | 0.001116        | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 20850   | 100RB#0      | VN            | NT               | 1.20           | 0.000478        | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 20850   | 100RB#0      | VH            | NT               | 4.60           | 0.001833        | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0      | VL            | NT               | -3.00          | -0.001183       | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0      | VN            | NT               | 0.30           | 0.000118        | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0      | VH            | NT               | -0.80          | -0.000316       | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 21350   | 100RB#0      | VL            | NT               | 3.70           | 0.001445        | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 21350   | 100RB#0      | VN            | NT               | 0.90           | 0.000352        | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 21350   | 100RB#0      | VH            | NT               | -0.40          | -0.000156       | ±2.5        | PASS    |
| Band7 | 20MHz     | 16QAM      | 20850   | 100RB#0      | VL            | NT               | 2.10           | 0.000837        | ±2.5        | PASS    |
| Band7 | 20MHz     | 16QAM      | 20850   | 100RB#0      | VN            | NT               | 2.80           | 0.001116        | ±2.5        | PASS    |
| Band7 | 20MHz     | 16QAM      | 20850   | 100RB#0      | VH            | NT               | 1.80           | 0.000717        | ±2.5        | PASS    |
| Band7 | 20MHz     | 16QAM      | 21100   | 100RB#0      | VL            | NT               | -2.60          | -0.001026       | ±2.5        | PASS    |
| Band7 | 20MHz     | 16QAM      | 21100   | 100RB#0      | VN            | NT               | 1.80           | 0.000710        | ±2.5        | PASS    |
| Band7 | 20MHz     | 16QAM      | 21100   | 100RB#0      | VH            | NT               | -1.10          | -0.000434       | ±2.5        | PASS    |
| Band7 | 20MHz     | 16QAM      | 21350   | 100RB#0      | VL            | NT               | -1.00          | -0.000391       | ±2.5        | PASS    |
| Band7 | 20MHz     | 16QAM      | 21350   | 100RB#0      | VN            | NT               | 3.50           | 0.001367        | ±2.5        | PASS    |
| Band7 | 20MHz     | 16QAM      | 21350   | 100RB#0      | VH            | NT               | 3.40           | 0.001328        | ±2.5        | PASS    |



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## 8.2. Frequency Vs Temperature

| Band  | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|-------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band7 | 20MHz     | QPSK       | 20850   | 100RB#0      | NV            | -30              | 2.80           | 0.001116        | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 20850   | 100RB#0      | NV            | -20              | 2.80           | 0.001116        | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 20850   | 100RB#0      | NV            | -10              | 1.50           | 0.000598        | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 20850   | 100RB#0      | NV            | 0                | 3.70           | 0.001474        | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 20850   | 100RB#0      | NV            | 10               | 3.40           | 0.001355        | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 20850   | 100RB#0      | NV            | 20               | 2.00           | 0.000797        | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 20850   | 100RB#0      | NV            | 30               | 1.90           | 0.000757        | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 20850   | 100RB#0      | NV            | 40               | 2.60           | 0.001036        | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 20850   | 100RB#0      | NV            | 50               | 3.30           | 0.001315        | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0      | NV            | -30              | -1.10          | -0.000434       | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0      | NV            | -20              | -3.40          | -0.001341       | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0      | NV            | -10              | -1.20          | -0.000473       | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0      | NV            | 0                | -1.50          | -0.000592       | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0      | NV            | 10               | -3.10          | -0.001223       | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0      | NV            | 20               | -1.40          | -0.000552       | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0      | NV            | 30               | -2.50          | -0.000986       | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0      | NV            | 40               | -1.80          | -0.000710       | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0      | NV            | 50               | -2.30          | -0.000907       | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 21350   | 100RB#0      | NV            | -30              | 0.30           | 0.000117        | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 21350   | 100RB#0      | NV            | -20              | 1.50           | 0.000586        | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 21350   | 100RB#0      | NV            | -10              | 2.20           | 0.000859        | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 21350   | 100RB#0      | NV            | 0                | 0.60           | 0.000234        | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 21350   | 100RB#0      | NV            | 10               | 2.70           | 0.001055        | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 21350   | 100RB#0      | NV            | 20               | 2.50           | 0.000977        | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 21350   | 100RB#0      | NV            | 30               | 1.00           | 0.000391        | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 21350   | 100RB#0      | NV            | 40               | 3.80           | 0.001484        | ±2.5        | PASS    |
| Band7 | 20MHz     | QPSK       | 21350   | 100RB#0      | NV            | 50               | 0.50           | 0.000195        | ±2.5        | PASS    |
| Band7 | 20MHz     | 16QAM      | 20850   | 100RB#0      | NV            | -30              | 2.10           | 0.000837        | ±2.5        | PASS    |
| Band7 | 20MHz     | 16QAM      | 20850   | 100RB#0      | NV            | -20              | 2.00           | 0.000797        | ±2.5        | PASS    |
| Band7 | 20MHz     | 16QAM      | 20850   | 100RB#0      | NV            | -10              | 2.90           | 0.001155        | ±2.5        | PASS    |
| Band7 | 20MHz     | 16QAM      | 20850   | 100RB#0      | NV            | 0                | 2.60           | 0.001036        | ±2.5        | PASS    |
| Band7 | 20MHz     | 16QAM      | 20850   | 100RB#0      | NV            | 10               | 0.50           | 0.000199        | ±2.5        | PASS    |
| Band7 | 20MHz     | 16QAM      | 20850   | 100RB#0      | NV            | 20               | 1.20           | 0.000478        | ±2.5        | PASS    |
| Band7 | 20MHz     | 16QAM      | 20850   | 100RB#0      | NV            | 30               | 2.40           | 0.000956        | ±2.5        | PASS    |



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|       |       |       |       |         |    |     |       |           |      |      |
|-------|-------|-------|-------|---------|----|-----|-------|-----------|------|------|
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | NV | 40  | 2.60  | 0.001036  | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | NV | 50  | 2.00  | 0.000797  | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | NV | -30 | -1.80 | -0.000710 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | NV | -20 | -2.80 | -0.001105 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | NV | -10 | -2.60 | -0.001026 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | NV | 0   | 0.40  | 0.000158  | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | NV | 10  | -2.90 | -0.001144 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | NV | 20  | -1.10 | -0.000434 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | NV | 30  | -3.70 | -0.001460 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | NV | 40  | -3.70 | -0.001460 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | NV | 50  | -3.60 | -0.001420 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | NV | -30 | 2.30  | 0.000898  | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | NV | -20 | 2.30  | 0.000898  | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | NV | -10 | 0.50  | 0.000195  | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | NV | 0   | 1.00  | 0.000391  | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | NV | 10  | 2.20  | 0.000859  | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | NV | 20  | 2.70  | 0.001055  | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | NV | 30  | -0.40 | -0.000156 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | NV | 40  | 0.30  | 0.000117  | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | NV | 50  | 0.60  | 0.000234  | ±2.5 | PASS |



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