



Appendix B

E-UTRA Band 7



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1 Effective (Isotropic) Radiated Power

1.1. Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Conducted Power(dBm) | EIRP (dBm) | limit (dBm) | Verdict |
|-------|-----------|------------|---------|------------------|----------------------|------------|-------------|---------|
| Band7 | 5MHz | QPSK | 20775 | 1RB#0 | 22.52 | 21.56 | 33.00 | PASS |
| Band7 | 5MHz | QPSK | 20775 | 1RB#12 | 22.80 | 21.84 | 33.00 | PASS |
| Band7 | 5MHz | QPSK | 20775 | 1RB#24 | 22.97 | 22.01 | 33.00 | PASS |
| Band7 | 5MHz | QPSK | 20775 | 12RB#6 | 21.77 | 20.81 | 33.00 | PASS |
| Band7 | 5MHz | QPSK | 20775 | 12RB#0 | 21.88 | 20.92 | 33.00 | PASS |
| Band7 | 5MHz | QPSK | 20775 | 12RB#13 | 21.52 | 20.56 | 33.00 | PASS |
| Band7 | 5MHz | QPSK | 20775 | 25RB#0 | 21.89 | 20.93 | 33.00 | PASS |
| Band7 | 5MHz | QPSK | 21100 | 1RB#24 | 22.75 | 21.79 | 33.00 | PASS |
| Band7 | 5MHz | QPSK | 21100 | 1RB#0 | 22.88 | 21.92 | 33.00 | PASS |
| Band7 | 5MHz | QPSK | 21100 | 1RB#12 | 22.81 | 21.85 | 33.00 | PASS |
| Band7 | 5MHz | QPSK | 21100 | 12RB#0 | 21.58 | 20.62 | 33.00 | PASS |
| Band7 | 5MHz | QPSK | 21100 | 12RB#6 | 21.65 | 20.69 | 33.00 | PASS |
| Band7 | 5MHz | QPSK | 21100 | 12RB#13 | 21.85 | 20.89 | 33.00 | PASS |
| Band7 | 5MHz | QPSK | 21100 | 25RB#0 | 21.86 | 20.9 | 33.00 | PASS |
| Band7 | 5MHz | QPSK | 21425 | 1RB#12 | 22.84 | 21.88 | 33.00 | PASS |
| Band7 | 5MHz | QPSK | 21425 | 1RB#0 | 22.53 | 21.57 | 33.00 | PASS |
| Band7 | 5MHz | QPSK | 21425 | 1RB#24 | 22.72 | 21.76 | 33.00 | PASS |
| Band7 | 5MHz | QPSK | 21425 | 12RB#13 | 21.57 | 20.61 | 33.00 | PASS |
| Band7 | 5MHz | QPSK | 21425 | 12RB#6 | 21.54 | 20.58 | 33.00 | PASS |
| Band7 | 5MHz | QPSK | 21425 | 12RB#0 | 21.64 | 20.68 | 33.00 | PASS |
| Band7 | 5MHz | QPSK | 21425 | 25RB#0 | 21.50 | 20.54 | 33.00 | PASS |
| Band7 | 5MHz | 64QAM | 20775 | 1RB#0 | 21.34 | 20.38 | 33.00 | PASS |
| Band7 | 5MHz | 64QAM | 20775 | 1RB#24 | 21.61 | 20.65 | 33.00 | PASS |
| Band7 | 5MHz | 64QAM | 20775 | 1RB#12 | 21.61 | 20.65 | 33.00 | PASS |
| Band7 | 5MHz | 64QAM | 20775 | 12RB#0 | 20.16 | 19.2 | 33.00 | PASS |
| Band7 | 5MHz | 64QAM | 20775 | 12RB#6 | 20.27 | 19.31 | 33.00 | PASS |
| Band7 | 5MHz | 64QAM | 20775 | 12RB#13 | 20.16 | 19.2 | 33.00 | PASS |



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| | | | | | | | | |
|-------|------|-------|-------|---------|-------|-------|-------|------|
| Band7 | 5MHz | 64QAM | 20775 | 25RB#0 | 20.19 | 19.23 | 33.00 | PASS |
| Band7 | 5MHz | 64QAM | 21100 | 1RB#0 | 21.23 | 20.27 | 33.00 | PASS |
| Band7 | 5MHz | 64QAM | 21100 | 1RB#12 | 21.52 | 20.56 | 33.00 | PASS |
| Band7 | 5MHz | 64QAM | 21100 | 1RB#24 | 21.56 | 20.6 | 33.00 | PASS |
| Band7 | 5MHz | 64QAM | 21100 | 12RB#13 | 20.13 | 19.17 | 33.00 | PASS |
| Band7 | 5MHz | 64QAM | 21100 | 12RB#6 | 20.06 | 19.1 | 33.00 | PASS |
| Band7 | 5MHz | 64QAM | 21100 | 12RB#0 | 20.07 | 19.11 | 33.00 | PASS |
| Band7 | 5MHz | 64QAM | 21100 | 25RB#0 | 20.08 | 19.12 | 33.00 | PASS |
| Band7 | 5MHz | 64QAM | 21425 | 1RB#0 | 21.44 | 20.48 | 33.00 | PASS |
| Band7 | 5MHz | 64QAM | 21425 | 1RB#12 | 21.21 | 20.25 | 33.00 | PASS |
| Band7 | 5MHz | 64QAM | 21425 | 1RB#24 | 21.32 | 20.36 | 33.00 | PASS |
| Band7 | 5MHz | 64QAM | 21425 | 12RB#0 | 19.94 | 18.98 | 33.00 | PASS |
| Band7 | 5MHz | 64QAM | 21425 | 12RB#6 | 19.93 | 18.97 | 33.00 | PASS |
| Band7 | 5MHz | 64QAM | 21425 | 12RB#13 | 19.89 | 18.93 | 33.00 | PASS |
| Band7 | 5MHz | 64QAM | 21425 | 25RB#0 | 19.91 | 18.95 | 33.00 | PASS |
| Band7 | 5MHz | 16QAM | 20775 | 1RB#0 | 22.17 | 21.21 | 33.00 | PASS |
| Band7 | 5MHz | 16QAM | 20775 | 1RB#24 | 22.28 | 21.32 | 33.00 | PASS |
| Band7 | 5MHz | 16QAM | 20775 | 1RB#12 | 22.31 | 21.35 | 33.00 | PASS |
| Band7 | 5MHz | 16QAM | 20775 | 12RB#13 | 20.77 | 19.81 | 33.00 | PASS |
| Band7 | 5MHz | 16QAM | 20775 | 12RB#6 | 21.00 | 20.04 | 33.00 | PASS |
| Band7 | 5MHz | 16QAM | 20775 | 12RB#0 | 20.72 | 19.76 | 33.00 | PASS |
| Band7 | 5MHz | 16QAM | 20775 | 25RB#0 | 20.85 | 19.89 | 33.00 | PASS |
| Band7 | 5MHz | 16QAM | 21100 | 1RB#0 | 21.92 | 20.96 | 33.00 | PASS |
| Band7 | 5MHz | 16QAM | 21100 | 1RB#12 | 22.25 | 21.29 | 33.00 | PASS |
| Band7 | 5MHz | 16QAM | 21100 | 1RB#24 | 22.14 | 21.18 | 33.00 | PASS |
| Band7 | 5MHz | 16QAM | 21100 | 12RB#0 | 20.82 | 19.86 | 33.00 | PASS |
| Band7 | 5MHz | 16QAM | 21100 | 12RB#6 | 20.64 | 19.68 | 33.00 | PASS |
| Band7 | 5MHz | 16QAM | 21100 | 12RB#13 | 20.74 | 19.78 | 33.00 | PASS |
| Band7 | 5MHz | 16QAM | 21100 | 25RB#0 | 20.76 | 19.8 | 33.00 | PASS |
| Band7 | 5MHz | 16QAM | 21425 | 1RB#0 | 22.01 | 21.05 | 33.00 | PASS |
| Band7 | 5MHz | 16QAM | 21425 | 1RB#24 | 21.89 | 20.93 | 33.00 | PASS |
| Band7 | 5MHz | 16QAM | 21425 | 1RB#12 | 22.02 | 21.06 | 33.00 | PASS |
| Band7 | 5MHz | 16QAM | 21425 | 12RB#0 | 20.60 | 19.64 | 33.00 | PASS |



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| | | | | | | | | |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band7 | 5MHz | 16QAM | 21425 | 12RB#6 | 20.59 | 19.63 | 33.00 | PASS |
| Band7 | 5MHz | 16QAM | 21425 | 12RB#13 | 20.60 | 19.64 | 33.00 | PASS |
| Band7 | 5MHz | 16QAM | 21425 | 25RB#0 | 20.66 | 19.7 | 33.00 | PASS |
| Band7 | 10MHz | QPSK | 20800 | 1RB#49 | 22.64 | 21.68 | 33.00 | PASS |
| Band7 | 10MHz | QPSK | 20800 | 1RB#24 | 22.89 | 21.93 | 33.00 | PASS |
| Band7 | 10MHz | QPSK | 20800 | 1RB#0 | 22.99 | 22.03 | 33.00 | PASS |
| Band7 | 10MHz | QPSK | 20800 | 25RB#12 | 21.85 | 20.89 | 33.00 | PASS |
| Band7 | 10MHz | QPSK | 20800 | 25RB#0 | 21.88 | 20.92 | 33.00 | PASS |
| Band7 | 10MHz | QPSK | 20800 | 25RB#25 | 21.53 | 20.57 | 33.00 | PASS |
| Band7 | 10MHz | QPSK | 20800 | 50RB#0 | 21.93 | 20.97 | 33.00 | PASS |
| Band7 | 10MHz | QPSK | 21100 | 1RB#24 | 22.85 | 21.89 | 33.00 | PASS |
| Band7 | 10MHz | QPSK | 21100 | 1RB#49 | 23.01 | 22.05 | 33.00 | PASS |
| Band7 | 10MHz | QPSK | 21100 | 1RB#0 | 22.89 | 21.93 | 33.00 | PASS |
| Band7 | 10MHz | QPSK | 21100 | 25RB#25 | 21.70 | 20.74 | 33.00 | PASS |
| Band7 | 10MHz | QPSK | 21100 | 25RB#0 | 21.76 | 20.8 | 33.00 | PASS |
| Band7 | 10MHz | QPSK | 21100 | 25RB#12 | 21.87 | 20.91 | 33.00 | PASS |
| Band7 | 10MHz | QPSK | 21100 | 50RB#0 | 21.93 | 20.97 | 33.00 | PASS |
| Band7 | 10MHz | QPSK | 21400 | 1RB#49 | 22.87 | 21.91 | 33.00 | PASS |
| Band7 | 10MHz | QPSK | 21400 | 1RB#24 | 22.61 | 21.65 | 33.00 | PASS |
| Band7 | 10MHz | QPSK | 21400 | 1RB#0 | 22.83 | 21.87 | 33.00 | PASS |
| Band7 | 10MHz | QPSK | 21400 | 25RB#25 | 21.66 | 20.7 | 33.00 | PASS |
| Band7 | 10MHz | QPSK | 21400 | 25RB#0 | 21.57 | 20.61 | 33.00 | PASS |
| Band7 | 10MHz | QPSK | 21400 | 25RB#12 | 21.65 | 20.69 | 33.00 | PASS |
| Band7 | 10MHz | QPSK | 21400 | 50RB#0 | 21.59 | 20.63 | 33.00 | PASS |
| Band7 | 10MHz | 64QAM | 20800 | 1RB#24 | 21.28 | 20.32 | 33.00 | PASS |
| Band7 | 10MHz | 64QAM | 20800 | 1RB#49 | 21.39 | 20.43 | 33.00 | PASS |
| Band7 | 10MHz | 64QAM | 20800 | 1RB#0 | 21.42 | 20.46 | 33.00 | PASS |
| Band7 | 10MHz | 64QAM | 20800 | 25RB#0 | 19.88 | 18.92 | 33.00 | PASS |
| Band7 | 10MHz | 64QAM | 20800 | 25RB#12 | 20.11 | 19.15 | 33.00 | PASS |
| Band7 | 10MHz | 64QAM | 20800 | 25RB#25 | 19.83 | 18.87 | 33.00 | PASS |
| Band7 | 10MHz | 64QAM | 20800 | 50RB#0 | 19.96 | 19 | 33.00 | PASS |
| Band7 | 10MHz | 64QAM | 21100 | 1RB#49 | 21.03 | 20.07 | 33.00 | PASS |
| Band7 | 10MHz | 64QAM | 21100 | 1RB#0 | 21.36 | 20.4 | 33.00 | PASS |



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| | | | | | | | | |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band7 | 10MHz | 64QAM | 21100 | 1RB#24 | 21.25 | 20.29 | 33.00 | PASS |
| Band7 | 10MHz | 64QAM | 21100 | 25RB#0 | 19.93 | 18.97 | 33.00 | PASS |
| Band7 | 10MHz | 64QAM | 21100 | 25RB#12 | 19.75 | 18.79 | 33.00 | PASS |
| Band7 | 10MHz | 64QAM | 21100 | 25RB#25 | 19.85 | 18.89 | 33.00 | PASS |
| Band7 | 10MHz | 64QAM | 21100 | 50RB#0 | 19.87 | 18.91 | 33.00 | PASS |
| Band7 | 10MHz | 64QAM | 21400 | 1RB#0 | 21.12 | 20.16 | 33.00 | PASS |
| Band7 | 10MHz | 64QAM | 21400 | 1RB#49 | 21.00 | 20.04 | 33.00 | PASS |
| Band7 | 10MHz | 64QAM | 21400 | 1RB#24 | 21.13 | 20.17 | 33.00 | PASS |
| Band7 | 10MHz | 64QAM | 21400 | 25RB#25 | 19.71 | 18.75 | 33.00 | PASS |
| Band7 | 10MHz | 64QAM | 21400 | 25RB#0 | 19.70 | 18.74 | 33.00 | PASS |
| Band7 | 10MHz | 64QAM | 21400 | 25RB#12 | 19.71 | 18.75 | 33.00 | PASS |
| Band7 | 10MHz | 64QAM | 21400 | 50RB#0 | 19.77 | 18.81 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 1RB#0 | 22.22 | 21.26 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 1RB#24 | 22.36 | 21.4 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 1RB#49 | 22.38 | 21.42 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 25RB#12 | 20.87 | 19.91 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 25RB#0 | 21.07 | 20.11 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 25RB#25 | 20.86 | 19.9 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 50RB#0 | 20.99 | 20.03 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 1RB#0 | 21.94 | 20.98 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 1RB#49 | 22.35 | 21.39 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 1RB#24 | 22.23 | 21.27 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 25RB#0 | 20.90 | 19.94 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 25RB#25 | 20.73 | 19.77 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 25RB#12 | 20.77 | 19.81 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 50RB#0 | 20.79 | 19.83 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 1RB#0 | 22.12 | 21.16 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 1RB#49 | 21.97 | 21.01 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 1RB#24 | 22.03 | 21.07 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 25RB#0 | 20.71 | 19.75 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 25RB#12 | 20.61 | 19.65 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 25RB#25 | 20.70 | 19.74 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 50RB#0 | 20.74 | 19.78 | 33.00 | PASS |



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| | | | | | | | | |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band7 | 15MHz | QPSK | 20825 | 1RB#74 | 22.77 | 21.81 | 33.00 | PASS |
| Band7 | 15MHz | QPSK | 20825 | 1RB#38 | 22.95 | 21.99 | 33.00 | PASS |
| Band7 | 15MHz | QPSK | 20825 | 1RB#0 | 23.04 | 22.08 | 33.00 | PASS |
| Band7 | 15MHz | QPSK | 20825 | 36RB#39 | 21.95 | 20.99 | 33.00 | PASS |
| Band7 | 15MHz | QPSK | 20825 | 36RB#18 | 22.01 | 21.05 | 33.00 | PASS |
| Band7 | 15MHz | QPSK | 20825 | 36RB#0 | 21.66 | 20.7 | 33.00 | PASS |
| Band7 | 15MHz | QPSK | 20825 | 75RB#0 | 21.95 | 20.99 | 33.00 | PASS |
| Band7 | 15MHz | QPSK | 21100 | 1RB#0 | 22.90 | 21.94 | 33.00 | PASS |
| Band7 | 15MHz | QPSK | 21100 | 1RB#38 | 23.01 | 22.05 | 33.00 | PASS |
| Band7 | 15MHz | QPSK | 21100 | 1RB#74 | 22.98 | 22.02 | 33.00 | PASS |
| Band7 | 15MHz | QPSK | 21100 | 36RB#0 | 21.81 | 20.85 | 33.00 | PASS |
| Band7 | 15MHz | QPSK | 21100 | 36RB#18 | 21.81 | 20.85 | 33.00 | PASS |
| Band7 | 15MHz | QPSK | 21100 | 36RB#39 | 21.87 | 20.91 | 33.00 | PASS |
| Band7 | 15MHz | QPSK | 21100 | 75RB#0 | 21.98 | 21.02 | 33.00 | PASS |
| Band7 | 15MHz | QPSK | 21375 | 1RB#0 | 23.00 | 22.04 | 33.00 | PASS |
| Band7 | 15MHz | QPSK | 21375 | 1RB#38 | 22.63 | 21.67 | 33.00 | PASS |
| Band7 | 15MHz | QPSK | 21375 | 1RB#74 | 22.94 | 21.98 | 33.00 | PASS |
| Band7 | 15MHz | QPSK | 21375 | 36RB#0 | 21.76 | 20.8 | 33.00 | PASS |
| Band7 | 15MHz | QPSK | 21375 | 36RB#18 | 21.59 | 20.63 | 33.00 | PASS |
| Band7 | 15MHz | QPSK | 21375 | 36RB#39 | 21.79 | 20.83 | 33.00 | PASS |
| Band7 | 15MHz | QPSK | 21375 | 75RB#0 | 21.66 | 20.7 | 33.00 | PASS |
| Band7 | 15MHz | 64QAM | 20825 | 1RB#74 | 21.33 | 20.37 | 33.00 | PASS |
| Band7 | 15MHz | 64QAM | 20825 | 1RB#38 | 21.47 | 20.51 | 33.00 | PASS |
| Band7 | 15MHz | 64QAM | 20825 | 1RB#0 | 21.49 | 20.53 | 33.00 | PASS |
| Band7 | 15MHz | 64QAM | 20825 | 36RB#0 | 19.98 | 19.02 | 33.00 | PASS |
| Band7 | 15MHz | 64QAM | 20825 | 36RB#18 | 20.18 | 19.22 | 33.00 | PASS |
| Band7 | 15MHz | 64QAM | 20825 | 36RB#39 | 19.97 | 19.01 | 33.00 | PASS |
| Band7 | 15MHz | 64QAM | 20825 | 75RB#0 | 20.10 | 19.14 | 33.00 | PASS |
| Band7 | 15MHz | 64QAM | 21100 | 1RB#38 | 21.05 | 20.09 | 33.00 | PASS |
| Band7 | 15MHz | 64QAM | 21100 | 1RB#74 | 21.46 | 20.5 | 33.00 | PASS |
| Band7 | 15MHz | 64QAM | 21100 | 1RB#0 | 21.34 | 20.38 | 33.00 | PASS |
| Band7 | 15MHz | 64QAM | 21100 | 36RB#39 | 20.01 | 19.05 | 33.00 | PASS |
| Band7 | 15MHz | 64QAM | 21100 | 36RB#0 | 19.84 | 18.88 | 33.00 | PASS |



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| | | | | | | | | |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band7 | 15MHz | 64QAM | 21100 | 36RB#18 | 19.88 | 18.92 | 33.00 | PASS |
| Band7 | 15MHz | 64QAM | 21100 | 75RB#0 | 19.90 | 18.94 | 33.00 | PASS |
| Band7 | 15MHz | 64QAM | 21375 | 1RB#0 | 21.23 | 20.27 | 33.00 | PASS |
| Band7 | 15MHz | 64QAM | 21375 | 1RB#38 | 21.08 | 20.12 | 33.00 | PASS |
| Band7 | 15MHz | 64QAM | 21375 | 1RB#74 | 21.14 | 20.18 | 33.00 | PASS |
| Band7 | 15MHz | 64QAM | 21375 | 36RB#18 | 19.82 | 18.86 | 33.00 | PASS |
| Band7 | 15MHz | 64QAM | 21375 | 36RB#0 | 19.72 | 18.76 | 33.00 | PASS |
| Band7 | 15MHz | 64QAM | 21375 | 36RB#39 | 19.81 | 18.85 | 33.00 | PASS |
| Band7 | 15MHz | 64QAM | 21375 | 75RB#0 | 19.85 | 18.89 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 1RB#38 | 22.23 | 21.27 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 1RB#0 | 22.43 | 21.47 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 1RB#74 | 22.50 | 21.54 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 36RB#0 | 20.94 | 19.98 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 36RB#39 | 21.12 | 20.16 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 36RB#18 | 20.94 | 19.98 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 75RB#0 | 20.99 | 20.03 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 1RB#38 | 22.06 | 21.1 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 1RB#74 | 22.35 | 21.39 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 1RB#0 | 22.35 | 21.39 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 36RB#0 | 20.97 | 20.01 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 36RB#18 | 20.83 | 19.87 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 36RB#39 | 20.88 | 19.92 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 75RB#0 | 20.85 | 19.89 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 1RB#0 | 22.20 | 21.24 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 1RB#38 | 21.98 | 21.02 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 1RB#74 | 22.10 | 21.14 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 36RB#0 | 20.72 | 19.76 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 36RB#18 | 20.71 | 19.75 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 36RB#39 | 20.77 | 19.81 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 75RB#0 | 20.77 | 19.81 | 33.00 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 1RB#0 | 22.79 | 21.83 | 33.00 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 1RB#49 | 23.02 | 22.06 | 33.00 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 1RB#99 | 23.17 | 22.21 | 33.00 | PASS |



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| | | | | | | | | |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band7 | 20MHz | QPSK | 20850 | 50RB#25 | 22.04 | 21.08 | 33.00 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 50RB#0 | 22.08 | 21.12 | 33.00 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 50RB#50 | 21.78 | 20.82 | 33.00 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 100RB#0 | 22.04 | 21.08 | 33.00 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 1RB#99 | 23.04 | 22.08 | 33.00 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 1RB#0 | 23.02 | 22.06 | 33.00 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 1RB#49 | 22.98 | 22.02 | 33.00 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 50RB#0 | 21.93 | 20.97 | 33.00 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 50RB#25 | 21.92 | 20.96 | 33.00 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 50RB#50 | 21.93 | 20.97 | 33.00 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 100RB#0 | 21.98 | 21.02 | 33.00 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 1RB#49 | 23.02 | 22.06 | 33.00 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 1RB#0 | 22.69 | 21.73 | 33.00 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 1RB#99 | 23.00 | 22.04 | 33.00 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 50RB#25 | 21.88 | 20.92 | 33.00 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 50RB#0 | 21.61 | 20.65 | 33.00 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 50RB#50 | 21.84 | 20.88 | 33.00 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 100RB#0 | 21.76 | 20.8 | 33.00 | PASS |
| Band7 | 20MHz | 64QAM | 20850 | 1RB#0 | 21.34 | 20.38 | 33.00 | PASS |
| Band7 | 20MHz | 64QAM | 20850 | 1RB#49 | 21.54 | 20.58 | 33.00 | PASS |
| Band7 | 20MHz | 64QAM | 20850 | 1RB#99 | 21.61 | 20.65 | 33.00 | PASS |
| Band7 | 20MHz | 64QAM | 20850 | 50RB#50 | 20.05 | 19.09 | 33.00 | PASS |
| Band7 | 20MHz | 64QAM | 20850 | 50RB#0 | 20.23 | 19.27 | 33.00 | PASS |
| Band7 | 20MHz | 64QAM | 20850 | 50RB#25 | 20.05 | 19.09 | 33.00 | PASS |
| Band7 | 20MHz | 64QAM | 20850 | 100RB#0 | 20.10 | 19.14 | 33.00 | PASS |
| Band7 | 20MHz | 64QAM | 21100 | 1RB#0 | 21.17 | 20.21 | 33.00 | PASS |
| Band7 | 20MHz | 64QAM | 21100 | 1RB#49 | 21.46 | 20.5 | 33.00 | PASS |
| Band7 | 20MHz | 64QAM | 21100 | 1RB#99 | 21.46 | 20.5 | 33.00 | PASS |
| Band7 | 20MHz | 64QAM | 21100 | 50RB#0 | 20.08 | 19.12 | 33.00 | PASS |
| Band7 | 20MHz | 64QAM | 21100 | 50RB#25 | 19.94 | 18.98 | 33.00 | PASS |
| Band7 | 20MHz | 64QAM | 21100 | 50RB#50 | 19.99 | 19.03 | 33.00 | PASS |
| Band7 | 20MHz | 64QAM | 21100 | 100RB#0 | 19.96 | 19 | 33.00 | PASS |
| Band7 | 20MHz | 64QAM | 21350 | 1RB#99 | 21.31 | 20.35 | 33.00 | PASS |



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| | | | | | | | | |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band7 | 20MHz | 64QAM | 21350 | 1RB#0 | 21.09 | 20.13 | 33.00 | PASS |
| Band7 | 20MHz | 64QAM | 21350 | 1RB#49 | 21.21 | 20.25 | 33.00 | PASS |
| Band7 | 20MHz | 64QAM | 21350 | 50RB#0 | 19.83 | 18.87 | 33.00 | PASS |
| Band7 | 20MHz | 64QAM | 21350 | 50RB#50 | 19.82 | 18.86 | 33.00 | PASS |
| Band7 | 20MHz | 64QAM | 21350 | 50RB#25 | 19.88 | 18.92 | 33.00 | PASS |
| Band7 | 20MHz | 64QAM | 21350 | 100RB#0 | 19.88 | 18.92 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 1RB#0 | 22.23 | 21.27 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 1RB#49 | 22.50 | 21.54 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 1RB#99 | 22.50 | 21.54 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 50RB#0 | 21.05 | 20.09 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 50RB#25 | 21.16 | 20.2 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 50RB#50 | 21.05 | 20.09 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | 21.08 | 20.12 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 1RB#0 | 22.12 | 21.16 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 1RB#99 | 22.41 | 21.45 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 1RB#49 | 22.45 | 21.49 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 50RB#0 | 21.02 | 20.06 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 50RB#25 | 20.95 | 19.99 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 50RB#50 | 20.96 | 20 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | 20.97 | 20.01 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 1RB#0 | 22.33 | 21.37 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 1RB#99 | 22.10 | 21.14 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 1RB#49 | 22.21 | 21.25 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 50RB#50 | 20.83 | 19.87 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 50RB#25 | 20.82 | 19.86 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 50RB#0 | 20.78 | 19.82 | 33.00 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | 20.80 | 19.84 | 33.00 | PASS |

Remark:

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

$$ERP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBd]}$$

$$EIRP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBi]}$$



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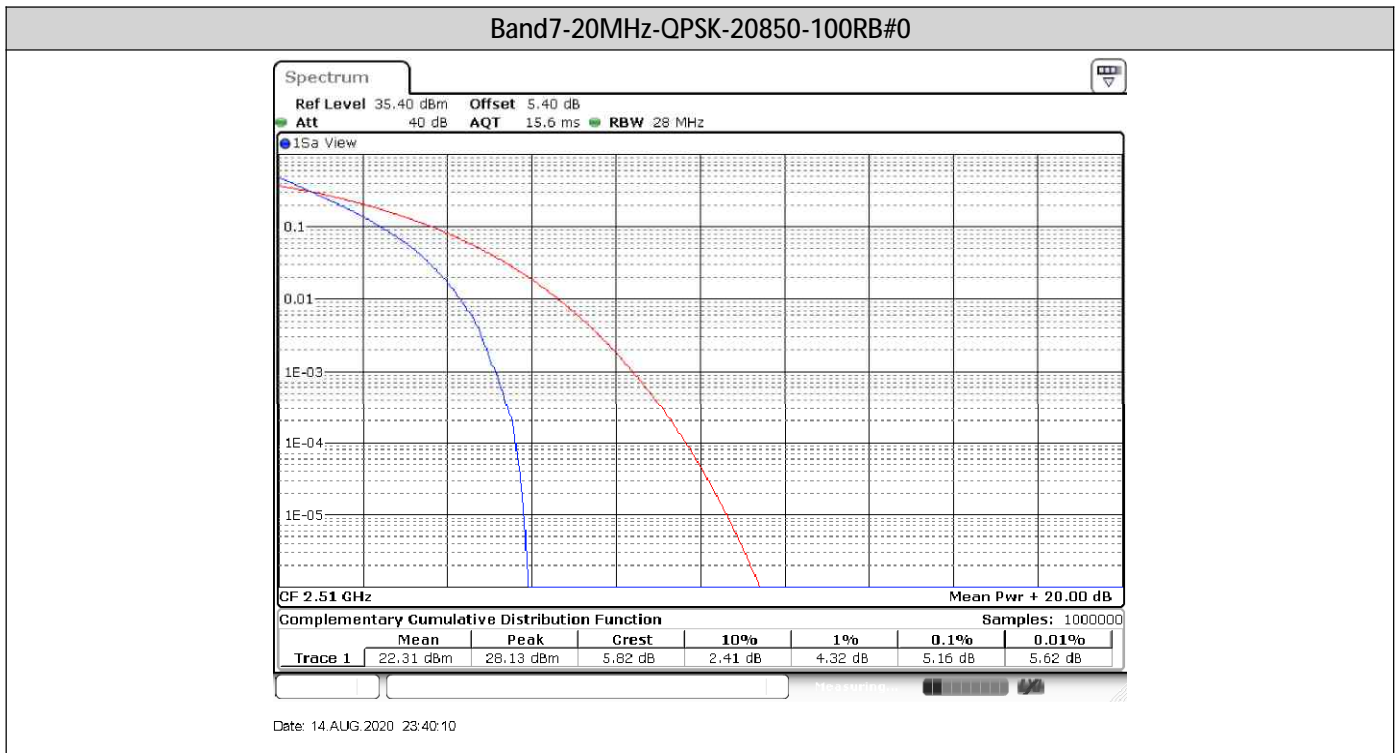


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|-------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band7 | 20MHz | QPSK | 20850 | 100RB#0 | 5.16 | 13 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 100RB#0 | 5.36 | 13 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 100RB#0 | 5.39 | 13 | PASS |
| Band7 | 20MHz | 64QAM | 20850 | 100RB#0 | 6.29 | 13 | PASS |
| Band7 | 20MHz | 64QAM | 21100 | 100RB#0 | 6.55 | 13 | PASS |
| Band7 | 20MHz | 64QAM | 21350 | 100RB#0 | 6.78 | 13 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | 5.91 | 13 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | 6.26 | 13 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | 6.26 | 13 | PASS |

2.2. Test Plots



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



Date: 14 AUG 2020 23:40:33

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



Date: 14 AUG 2020 23:40:56

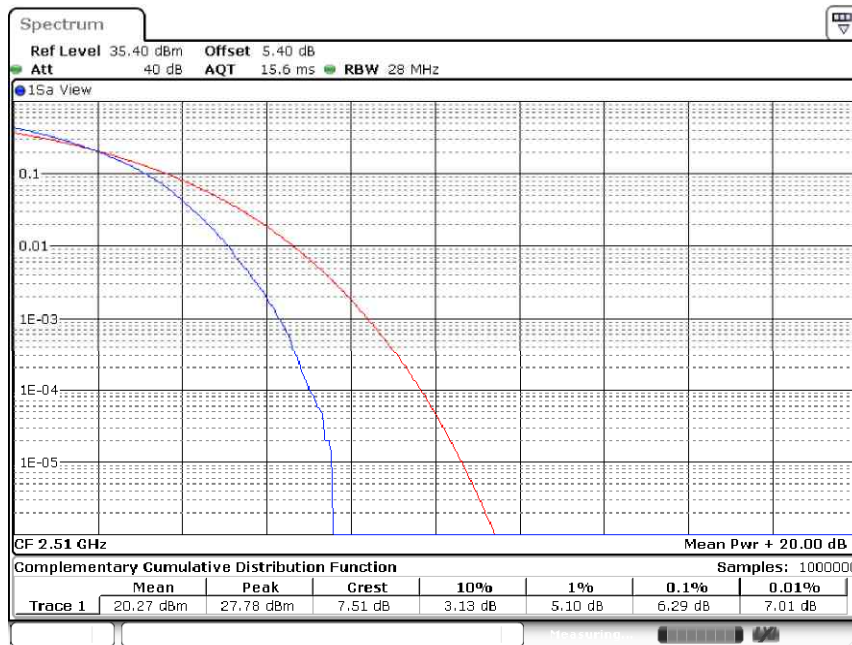


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Band7-20MHz-64QAM-20850-100RB#0



Date: 15 AUG 2020 02:30:56

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



Date: 15 AUG 2020 02:31:08



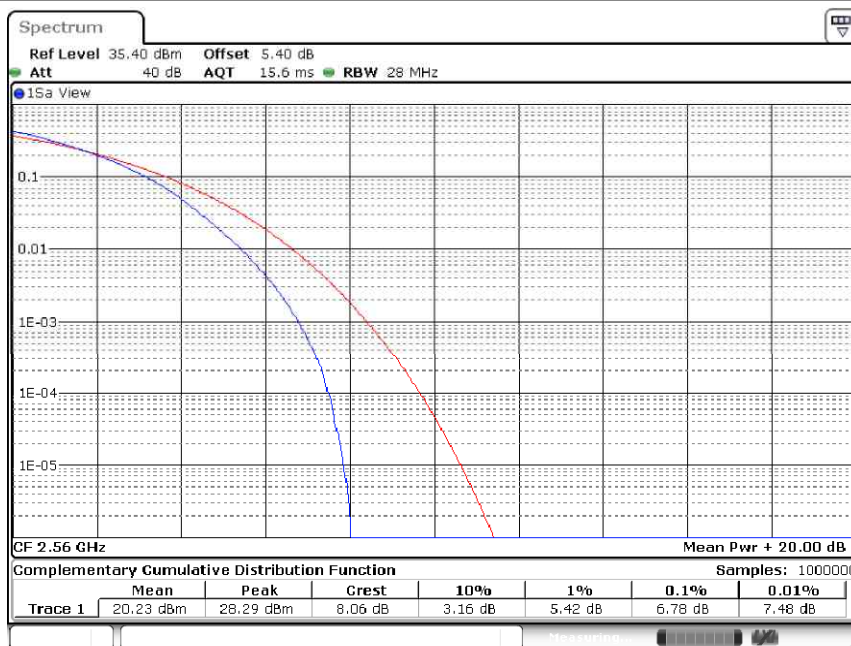
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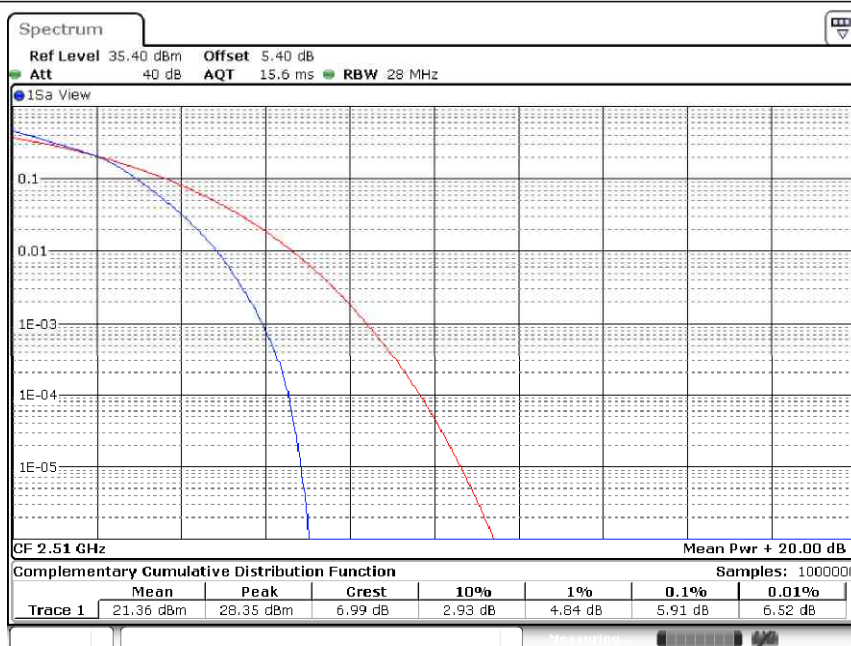


Band7-20MHz-64QAM-21350-100RB#0



Date: 16.AUG.2020 02:31:19

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



Date: 14.AUG.2020 23:40:22



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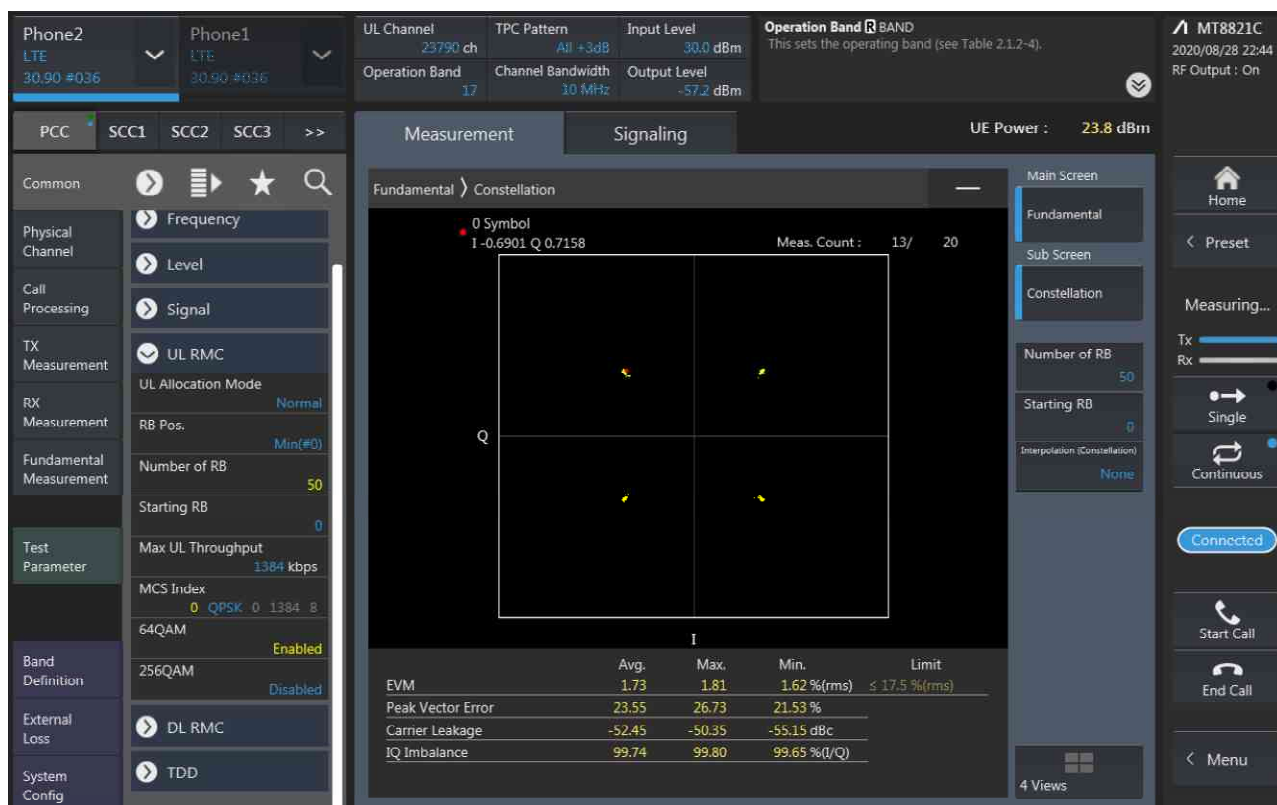


3. Modulation Characteristics

3.1. Test Band = LTE Band 7

3.1.1. Test Mode = LTE /TM1 20MHz

3.1.1.1. Test Channel = MCH



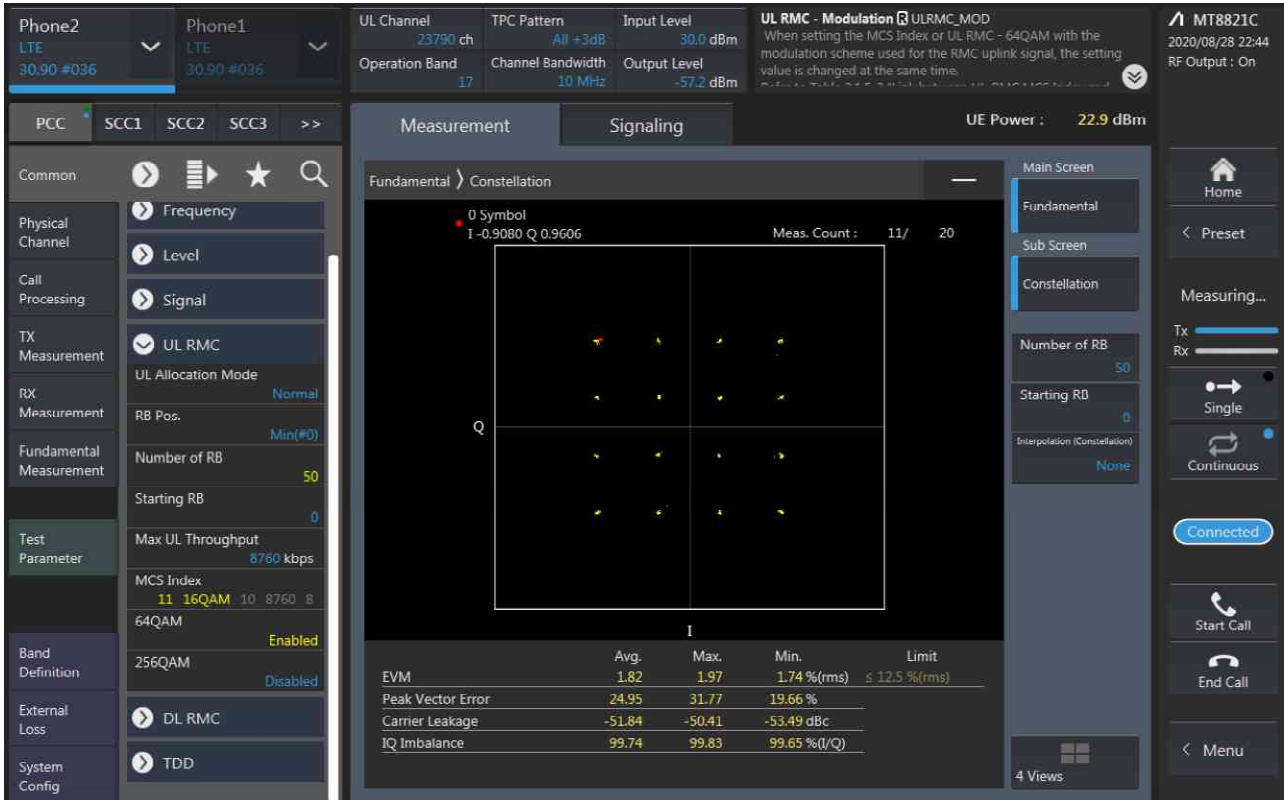
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3.1.2. Test Mode = LTE /TM2 20MHz

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 | 4.920 | PASS |
| Band7 | 5MHz | QPSK | 21100 | 25RB#0 | 4.476 | 4.900 | PASS |
| Band7 | 5MHz | QPSK | 21425 | 25RB#0 | 4.476 | 4.960 | PASS |
| Band7 | 5MHz | 64QAM | 20775 | 25RB#0 | 4.476 | 4.920 | PASS |
| Band7 | 5MHz | 64QAM | 21100 | 25RB#0 | 4.476 | 4.920 | PASS |
| Band7 | 5MHz | 64QAM | 21425 | 25RB#0 | 4.476 | 4.920 | PASS |
| Band7 | 5MHz | 16QAM | 20775 | 25RB#0 | 4.486 | 4.970 | PASS |
| Band7 | 5MHz | 16QAM | 21100 | 25RB#0 | 4.496 | 4.930 | PASS |
| Band7 | 5MHz | 16QAM | 21425 | 25RB#0 | 4.496 | 4.950 | PASS |
| Band7 | 10MHz | QPSK | 20800 | 50RB#0 | 8.931 | 9.700 | PASS |
| Band7 | 10MHz | QPSK | 21100 | 50RB#0 | 8.951 | 9.740 | PASS |
| Band7 | 10MHz | QPSK | 21400 | 50RB#0 | 8.911 | 9.720 | PASS |
| Band7 | 10MHz | 64QAM | 20800 | 50RB#0 | 8.931 | 9.700 | PASS |
| Band7 | 10MHz | 64QAM | 21100 | 50RB#0 | 8.931 | 9.740 | PASS |
| Band7 | 10MHz | 64QAM | 21400 | 50RB#0 | 8.931 | 9.780 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 50RB#0 | 8.931 | 9.780 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 50RB#0 | 8.951 | 9.780 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 50RB#0 | 8.931 | 9.760 | PASS |
| Band7 | 15MHz | QPSK | 20825 | 75RB#0 | 13.457 | 14.820 | PASS |
| Band7 | 15MHz | QPSK | 21100 | 75RB#0 | 13.427 | 14.700 | PASS |
| Band7 | 15MHz | QPSK | 21375 | 75RB#0 | 13.457 | 14.730 | PASS |
| Band7 | 15MHz | 64QAM | 20825 | 75RB#0 | 13.427 | 14.880 | PASS |
| Band7 | 15MHz | 64QAM | 21100 | 75RB#0 | 13.427 | 14.880 | PASS |
| Band7 | 15MHz | 64QAM | 21375 | 75RB#0 | 13.457 | 14.820 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 75RB#0 | 13.427 | 14.820 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 75RB#0 | 13.457 | 14.820 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 75RB#0 | 13.457 | 14.700 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 100RB#0 | 17.902 | 19.600 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 100RB#0 | 17.902 | 19.520 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 100RB#0 | 17.902 | 19.480 | PASS |
| Band7 | 20MHz | 64QAM | 20850 | 100RB#0 | 17.902 | 19.400 | PASS |



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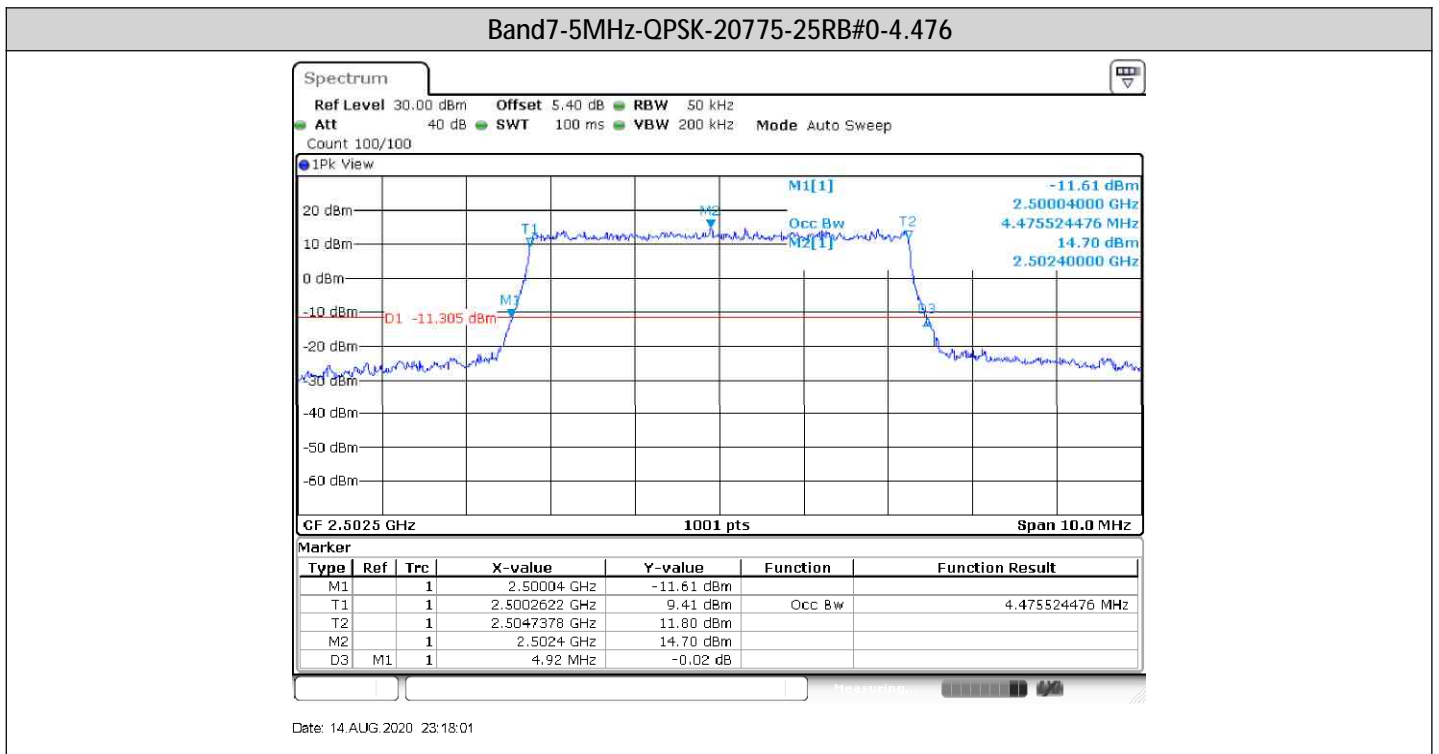
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| | | | | | | | |
|-------|-------|-------|-------|---------|--------|--------|------|
| Band7 | 20MHz | 64QAM | 21100 | 100RB#0 | 17.902 | 19.480 | PASS |
| Band7 | 20MHz | 64QAM | 21350 | 100RB#0 | 17.902 | 19.360 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | 17.902 | 19.360 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | 17.902 | 19.520 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | 17.902 | 19.480 | PASS |

4.2. Test Plots



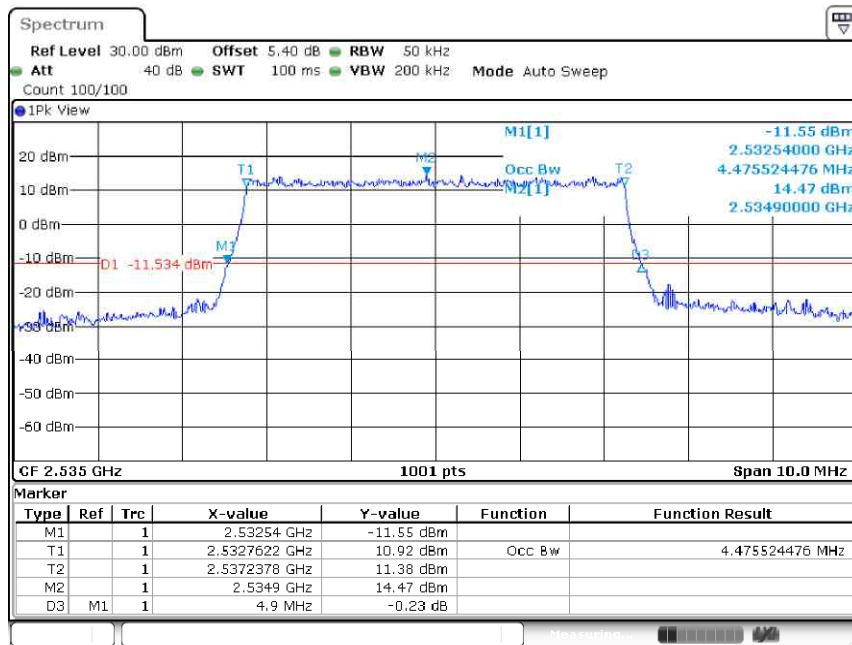
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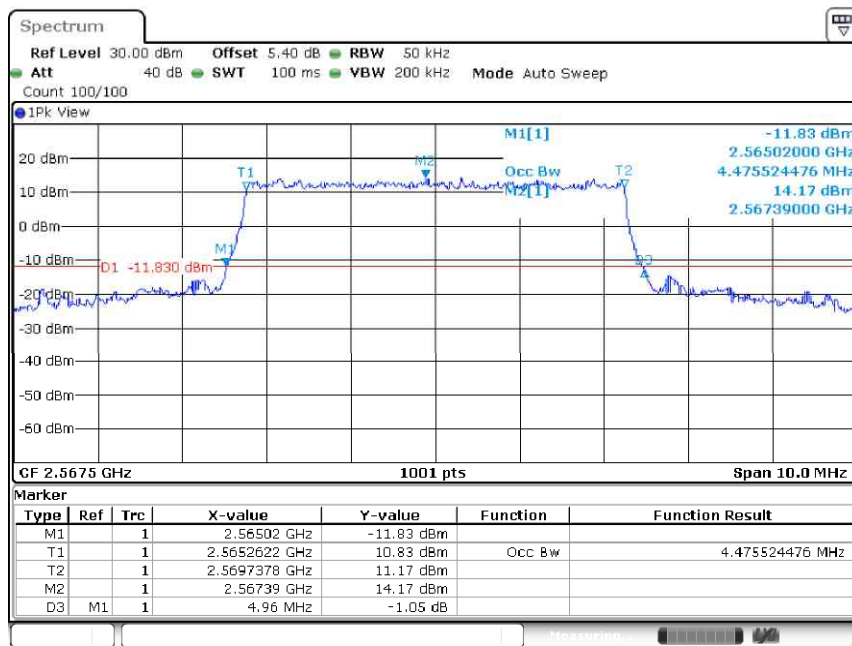


Band7-5MHz-QPSK-21100-25RB#0-4.476



Date: 14 AUG 2020 23:18:41

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



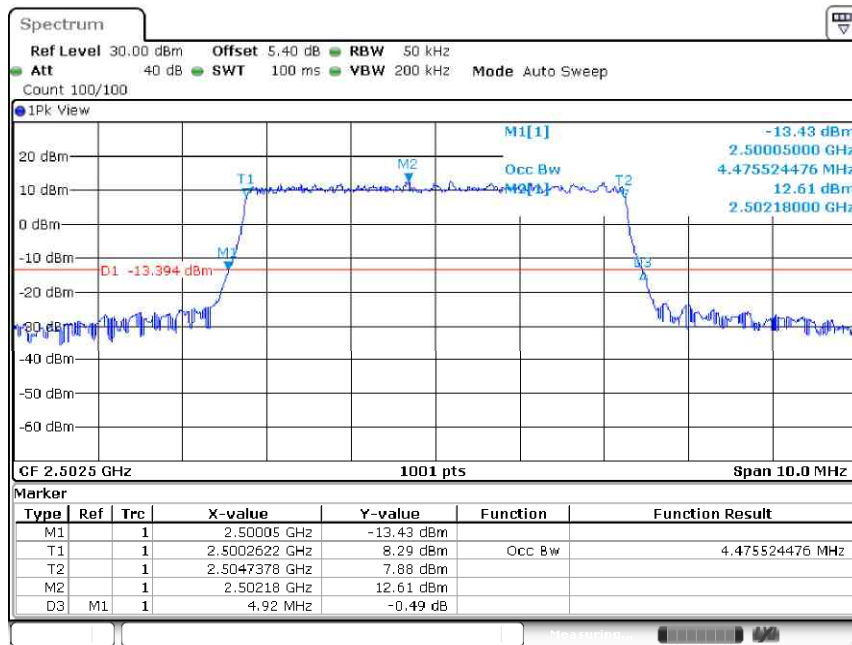
Date: 14 AUG 2020 23:19:21



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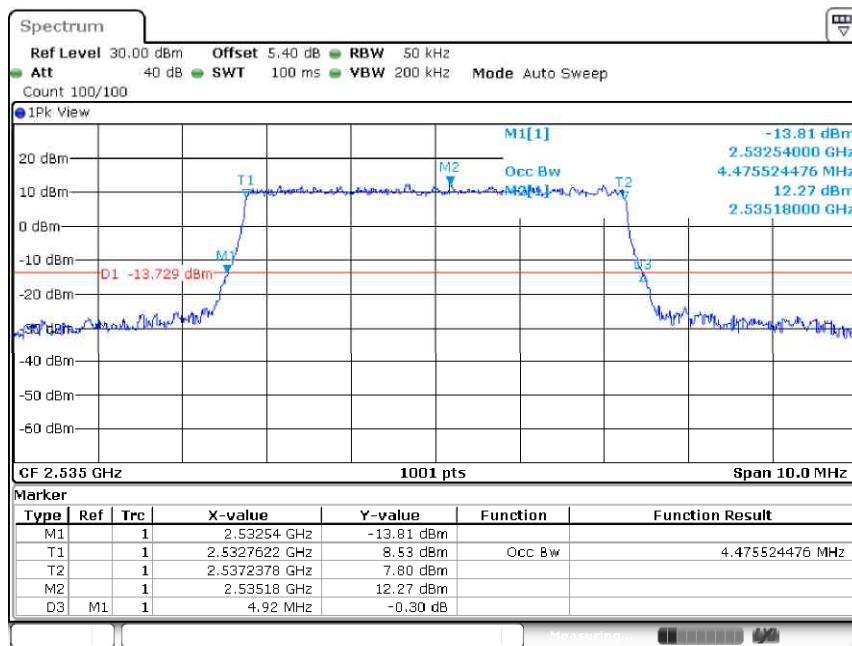


Band7-5MHz-64QAM-20775-25RB#0-4.476



Date: 15 AUG 2020 02:18:53

Band7-5MHz-64QAM-21100-25RB#0-4.476



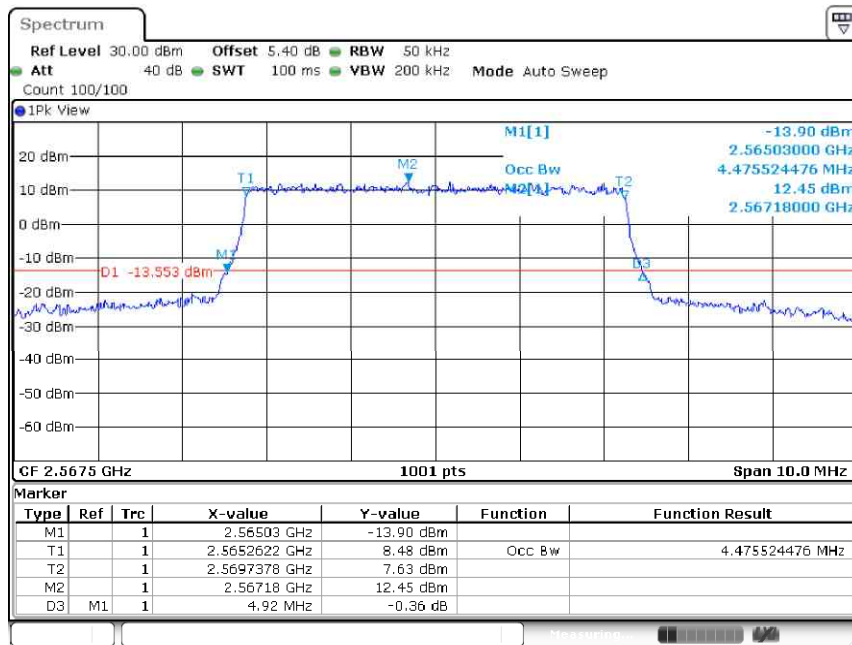
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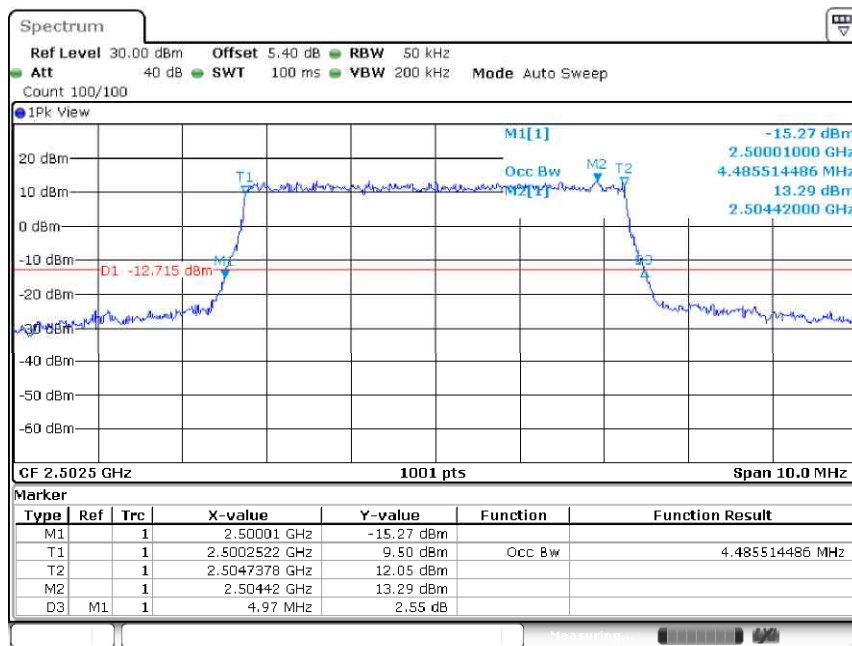


Band7-5MHz-64QAM-21425-25RB#0-4.476



Date: 16.AUG 2020 02:19:33

Band7-5MHz-16QAM-20775-25RB#0-4.486



Date: 14.AUG 2020 23:18:21



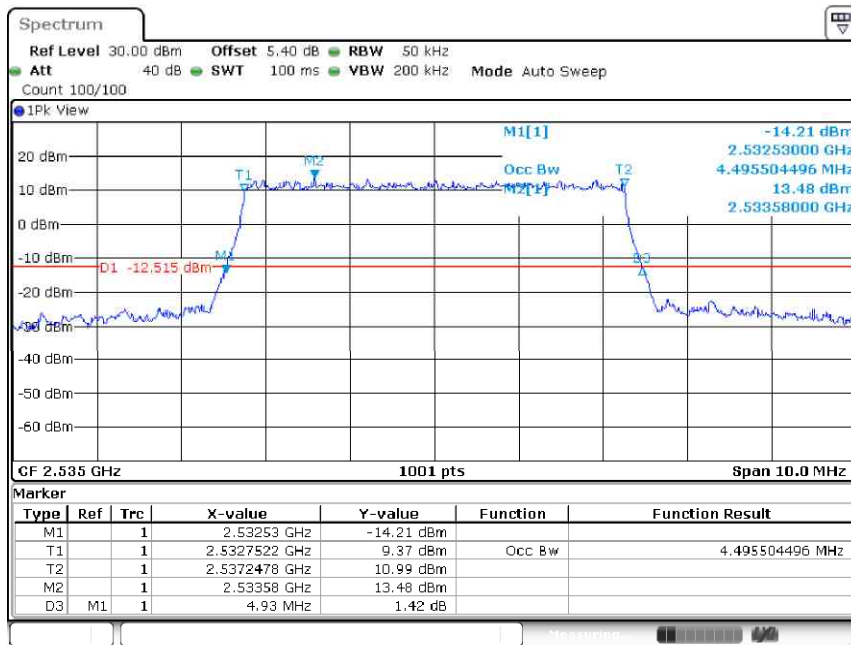
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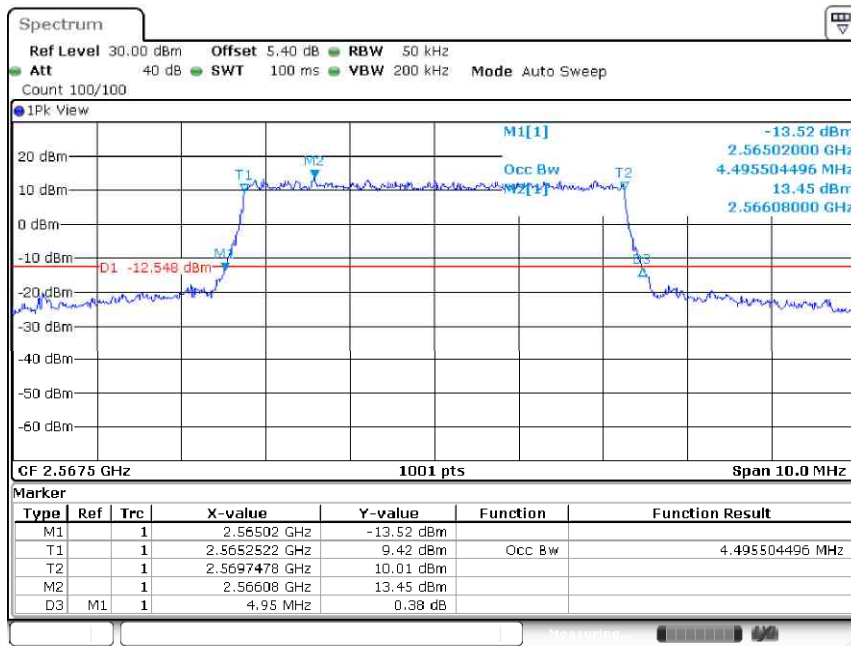


Band7-5MHz-16QAM-21100-25RB#0-4.496



Date: 14 AUG 2020 23:19:01

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



Date: 14 AUG 2020 23:19:41



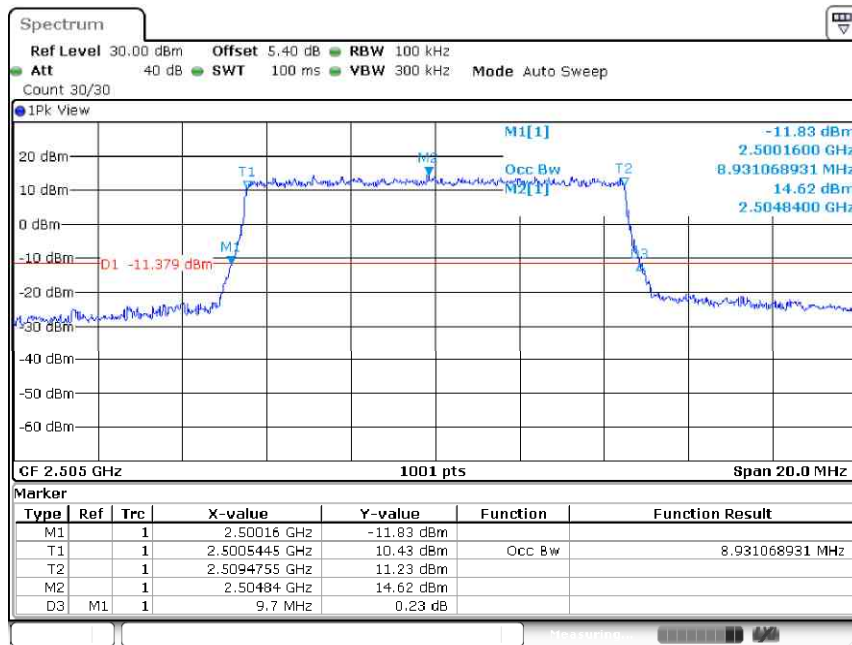
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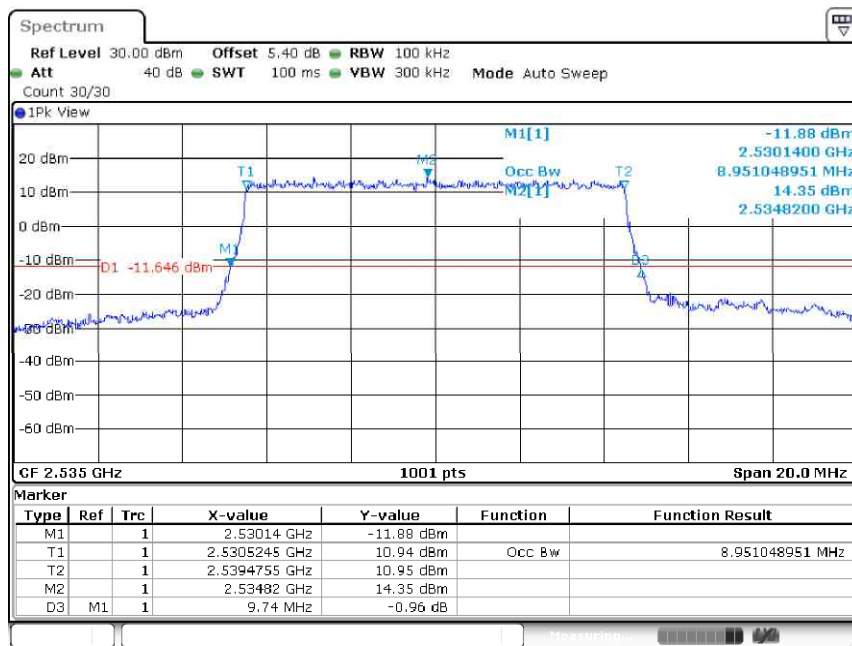


Band7-10MHz-QPSK-20800-50RB#0-8.931



Date: 14 AUG 2020 23:20:00

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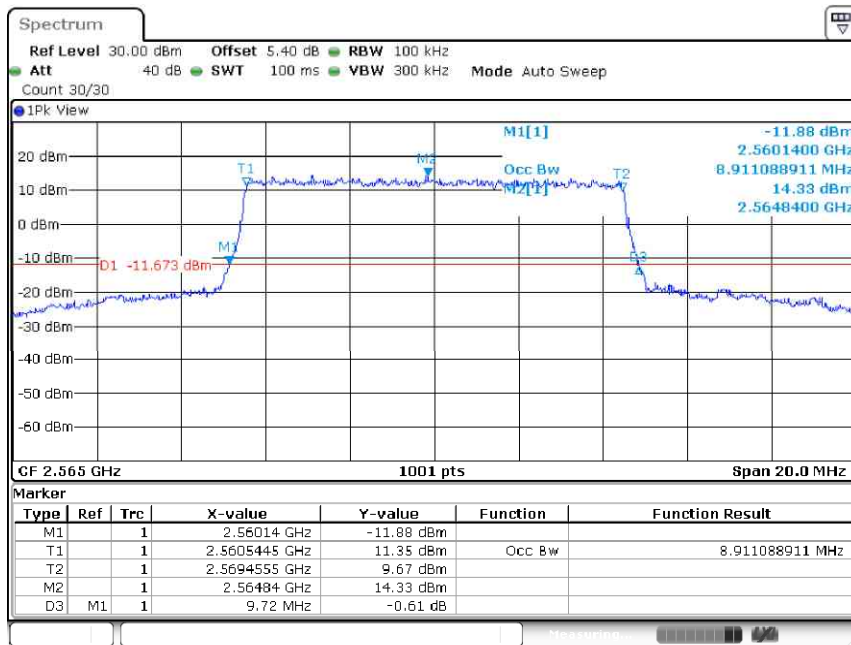
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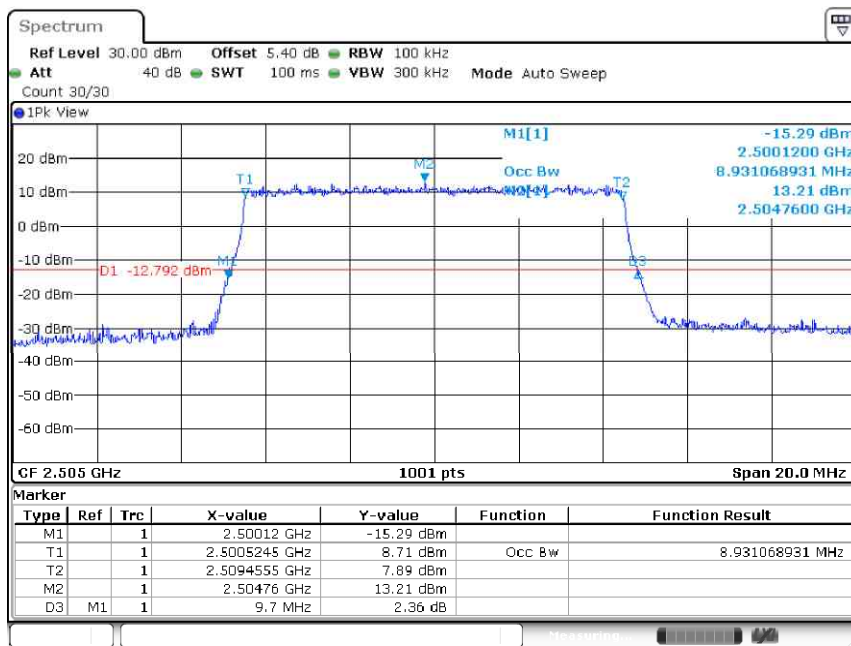


Band7-10MHz-QPSK-21400-50RB#0-8.911



Date: 14 AUG 2020 23:20:52

Band7-10MHz-64QAM-20800-50RB#0-8.931



Date: 15 AUG 2020 02:19:53



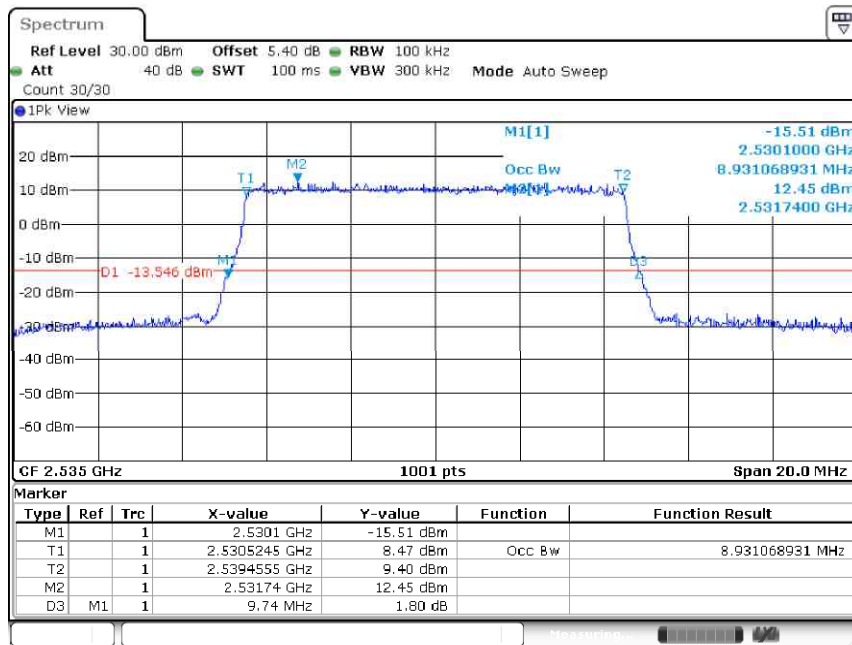
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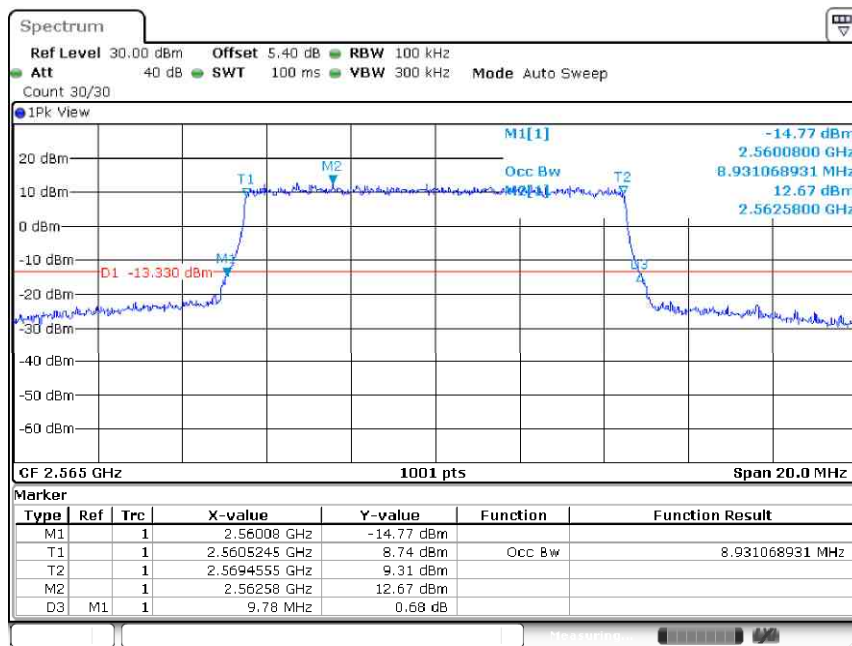
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Band7-10MHz-64QAM-21100-50RB#0-8.931



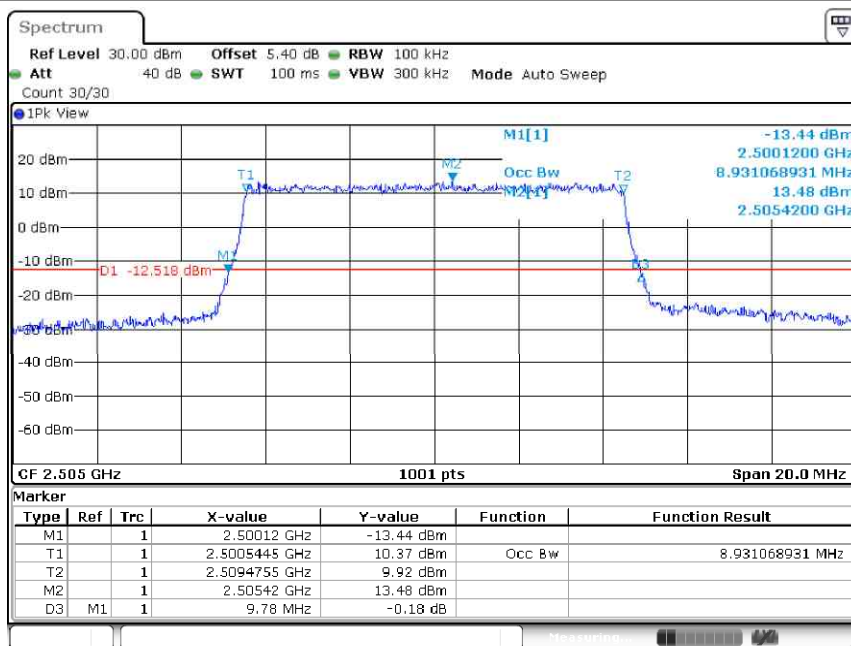
Band7-10MHz-64QAM-21400-50RB#0-8.931



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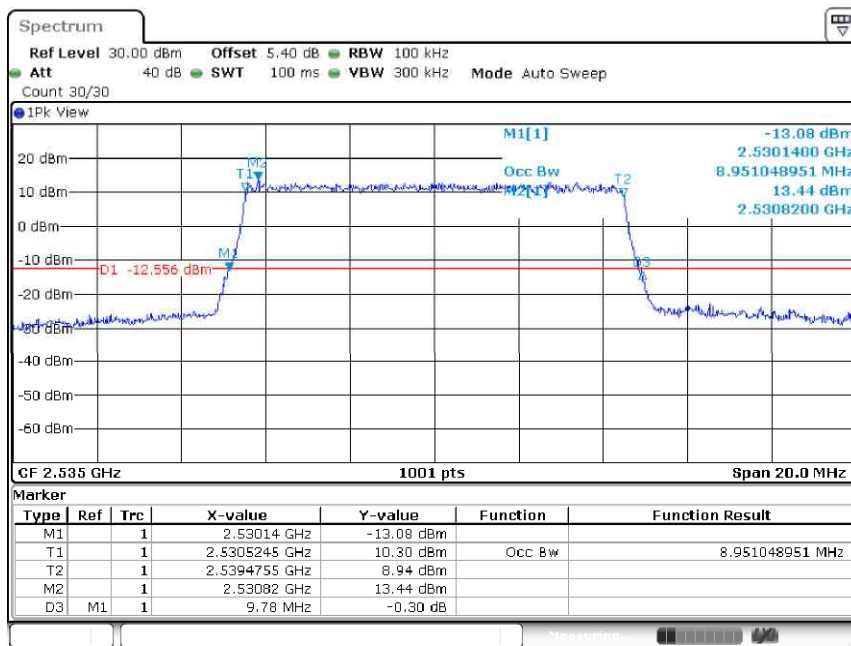


Band7-10MHz-16QAM-20800-50RB#0-8.931



Date: 14.AUG.2020 23:20:13

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



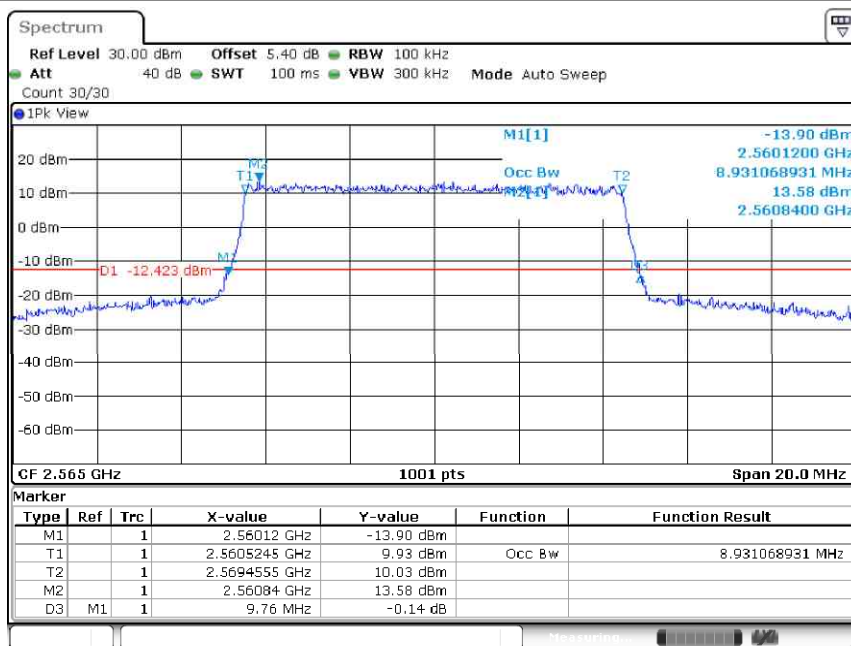
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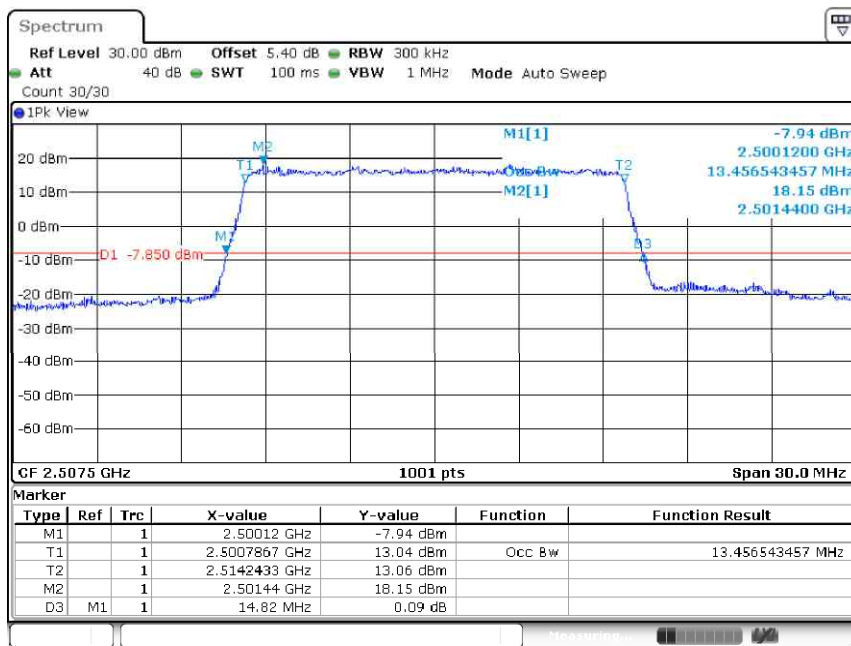


Band7-10MHz-16QAM-21400-50RB#0-8.931



Date: 14.AUG.2020 23:21:05

Band7-15MHz-QPSK-20825-75RB#0-13.457

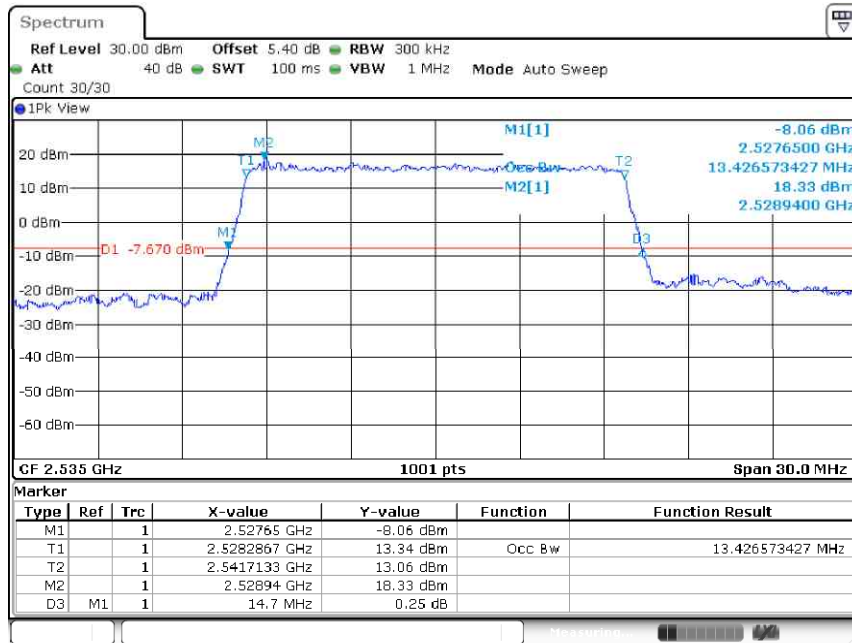


Date: 14.AUG.2020 23:21:24



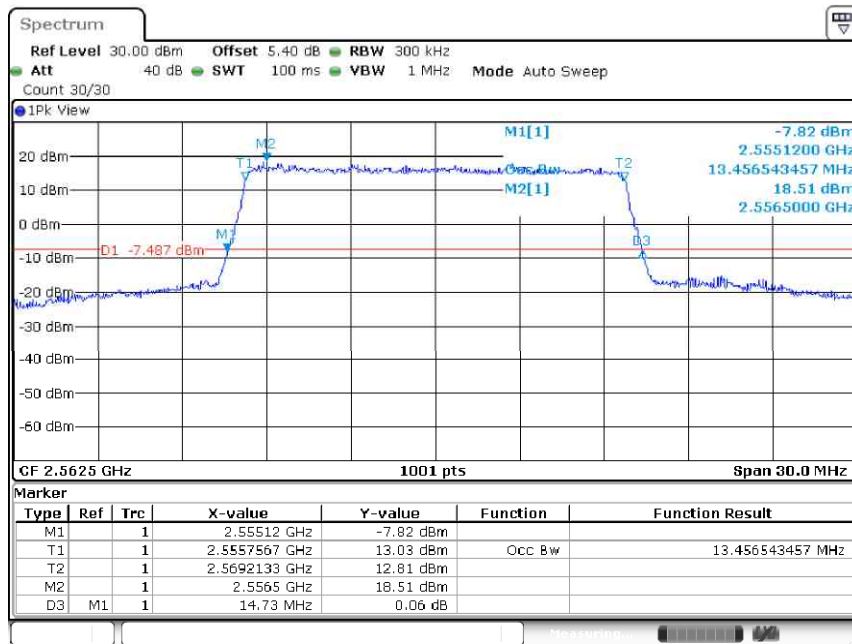
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Band7-15MHz-QPSK-21100-75RB#0-13.427



Date: 14.AUG.2020 23:21:50

Band7-15MHz-QPSK-21375-75RB#0-13.457



Date: 14.AUG.2020 23:22:16



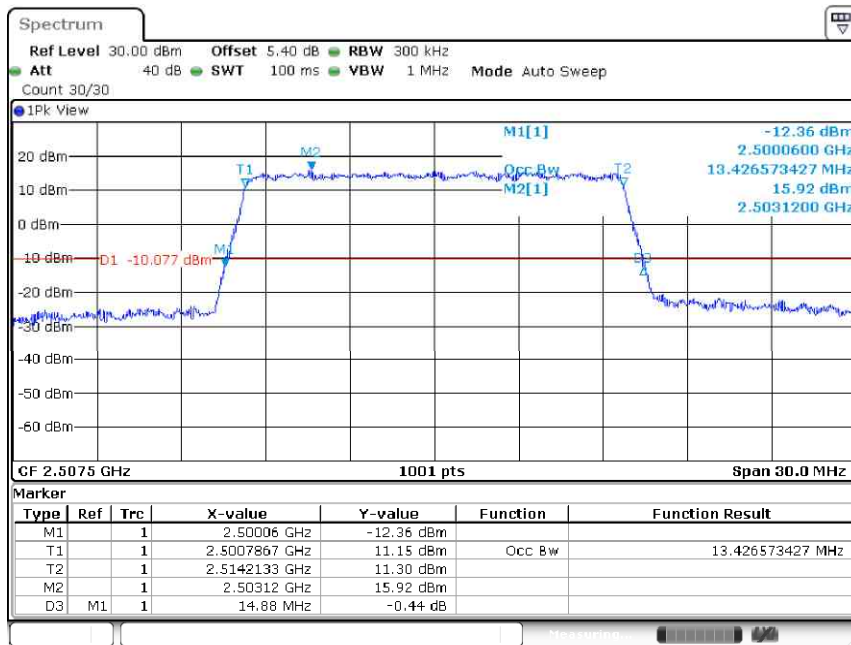
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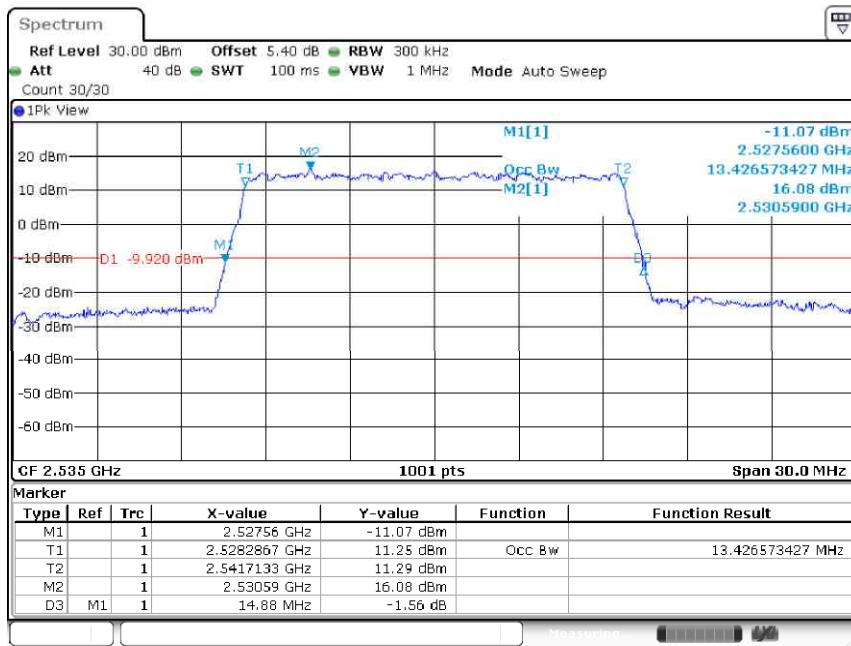


Band7-15MHz-64QAM-20825-75RB#0-13.427



Date: 15.AUG.2020 02:20:40

Band7-15MHz-64QAM-21100-75RB#0-13.427



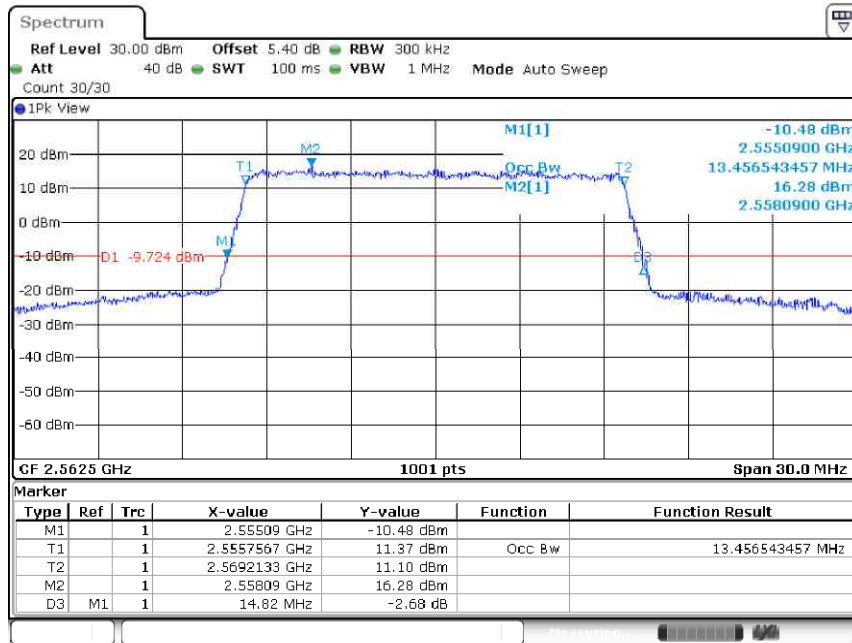
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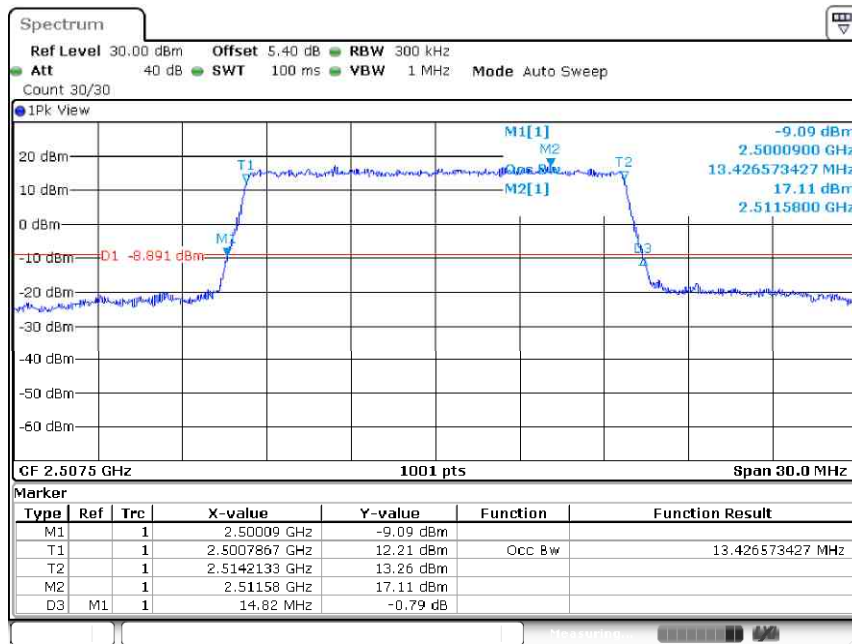


Band7-15MHz-64QAM-21375-75RB#0-13.457



Date: 16.AUG 2020 02:21:06

Band7-15MHz-16QAM-20825-75RB#0-13.427



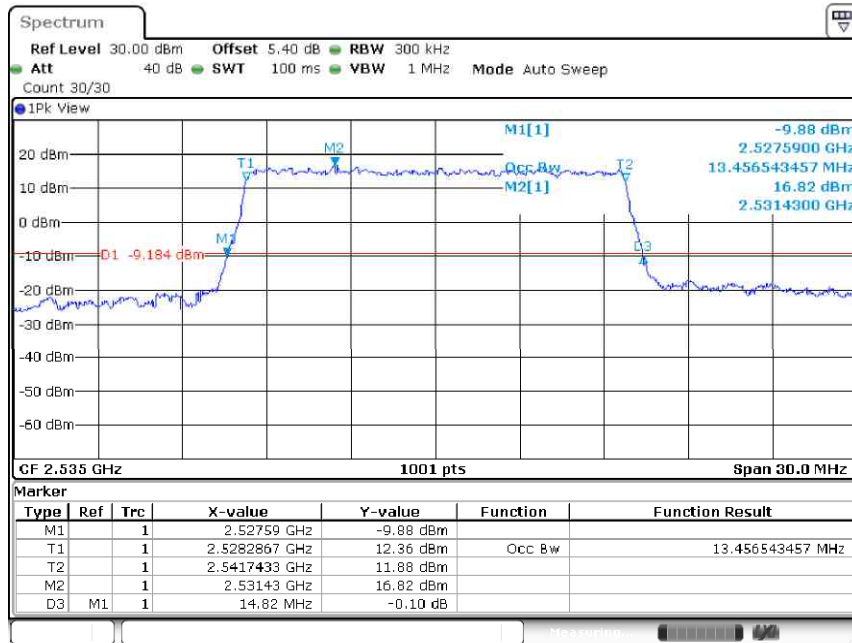
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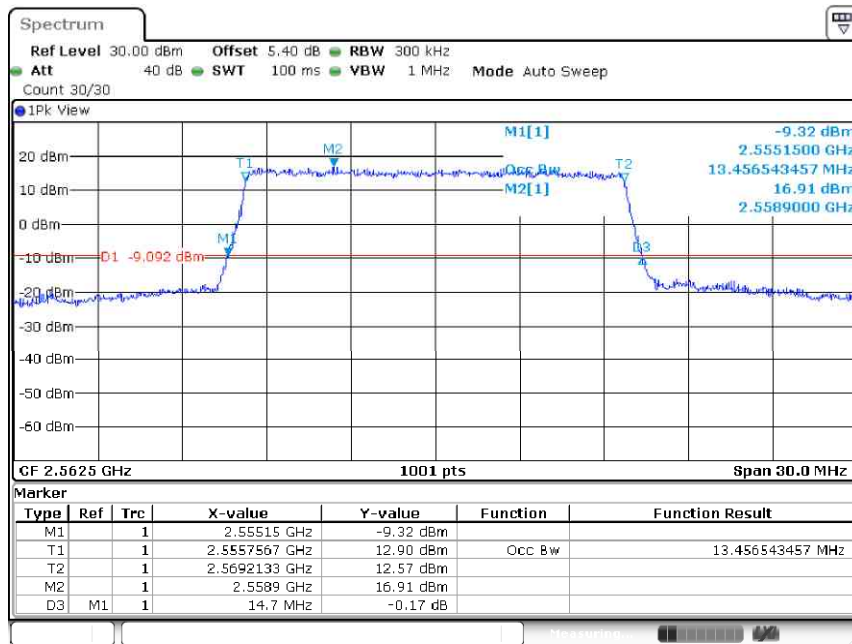


Band7-15MHz-16QAM-21100-75RB#0-13.457



Date: 14.AUG.2020 23:22:03

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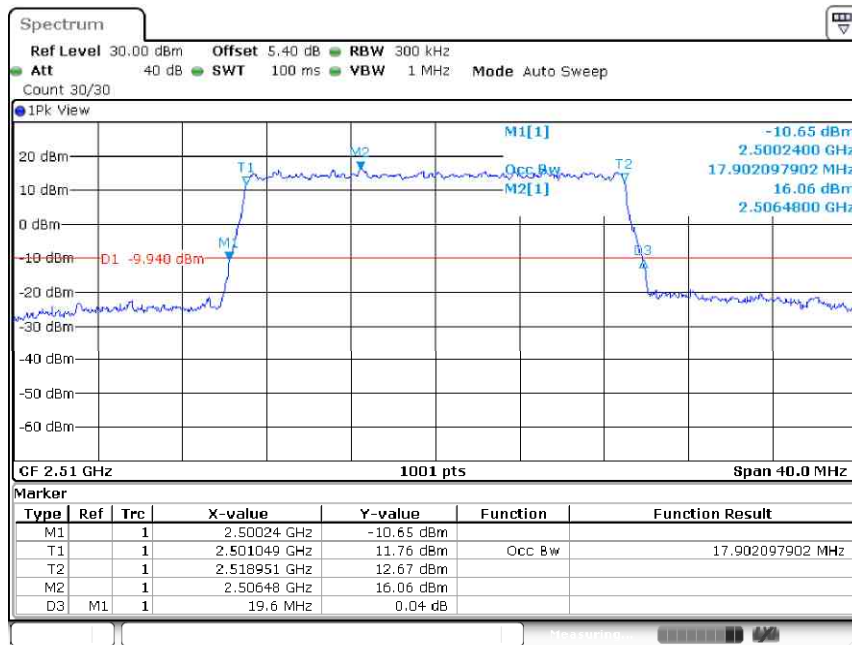
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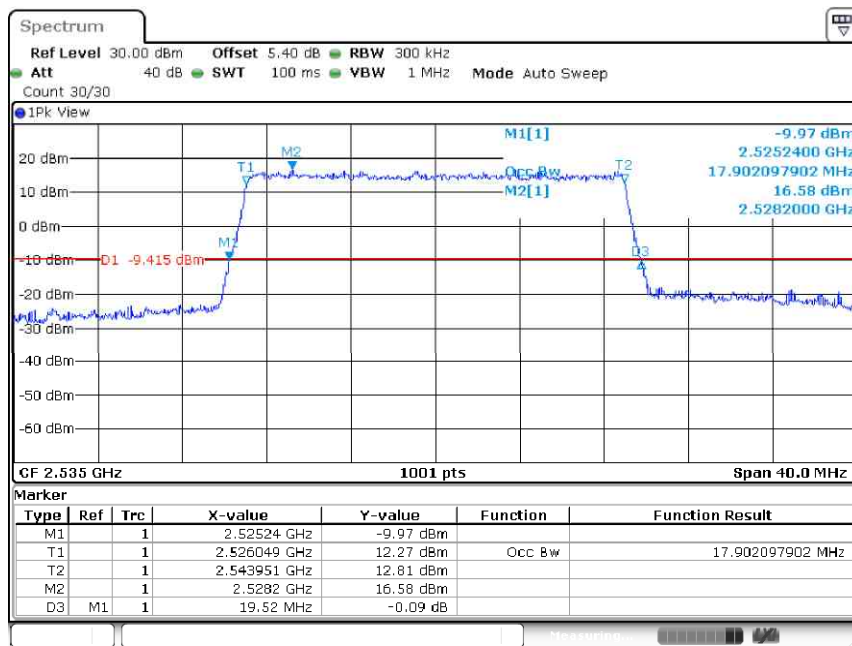


Band7-20MHz-QPSK-20850-100RB#0-17.902



Date: 14.AUG.2020 23:22:48

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



Date: 14.AUG.2020 23:23:14



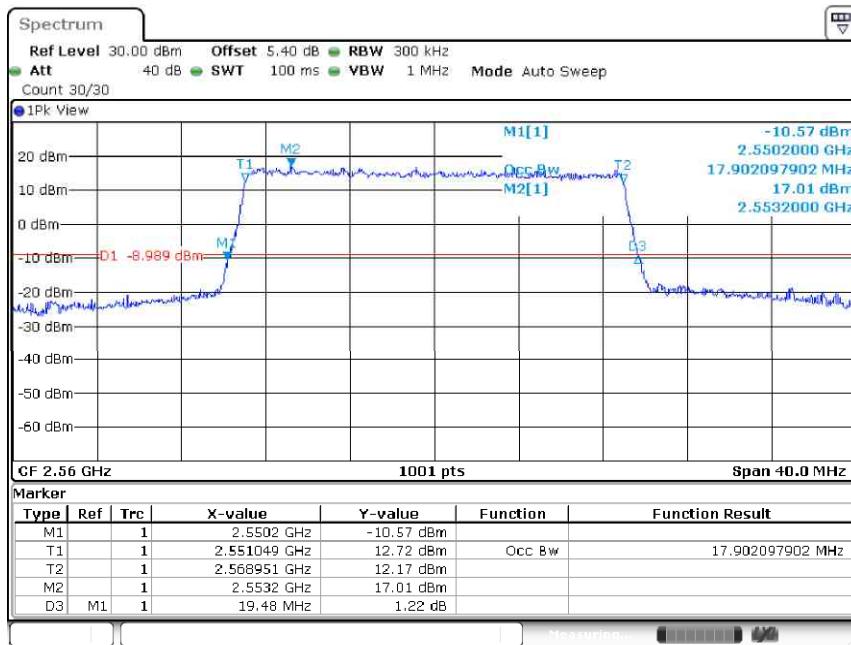
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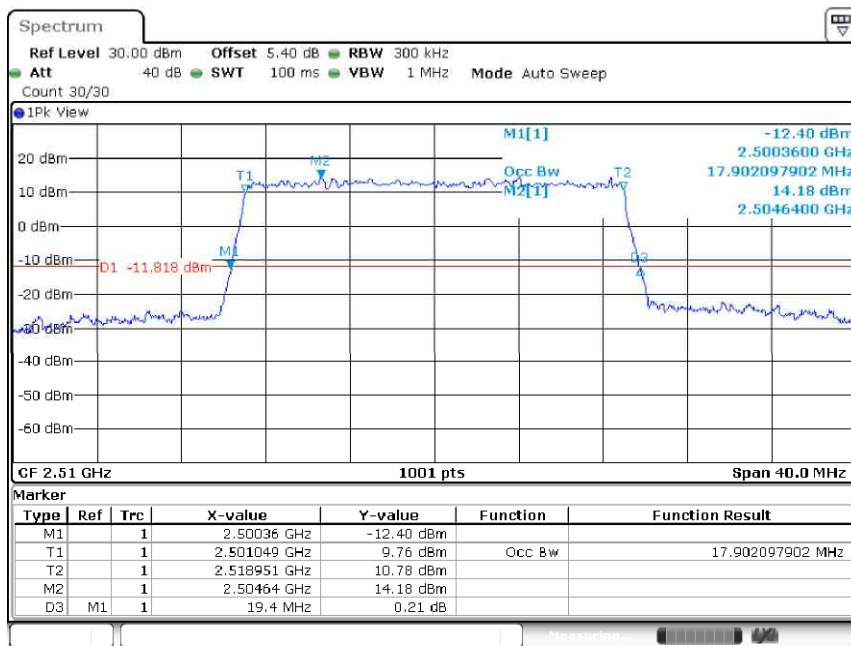


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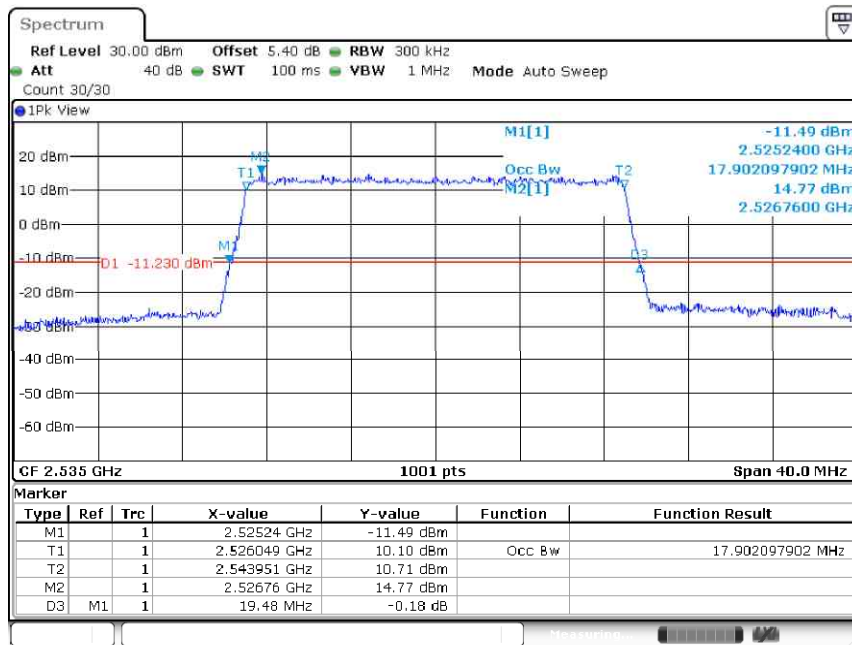
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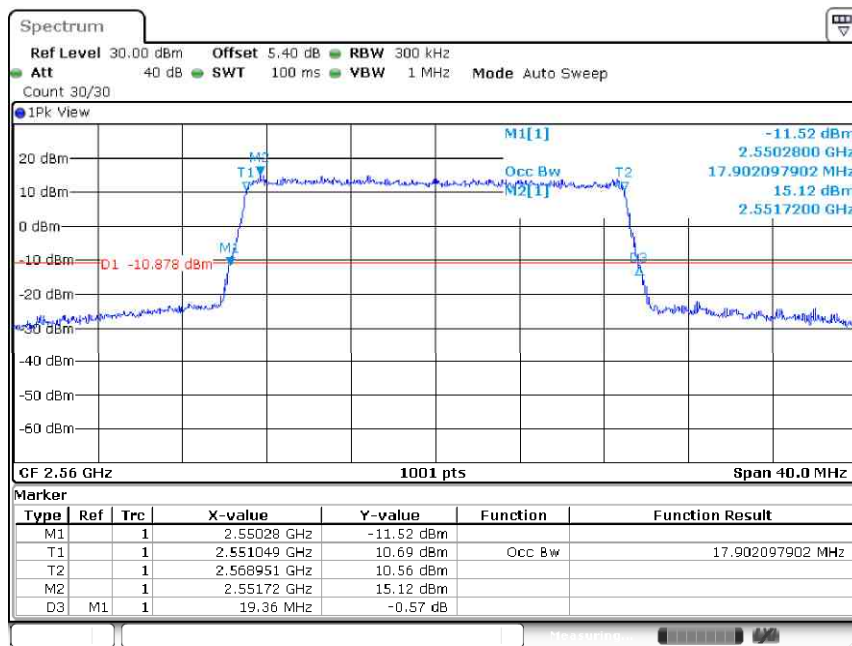


Band7-20MHz-64QAM-21100-100RB#0-17.902



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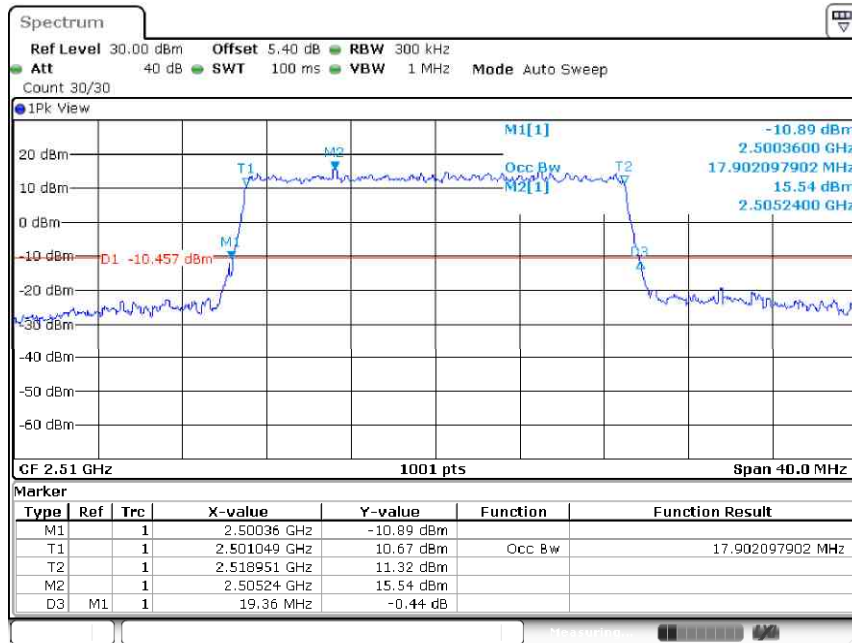
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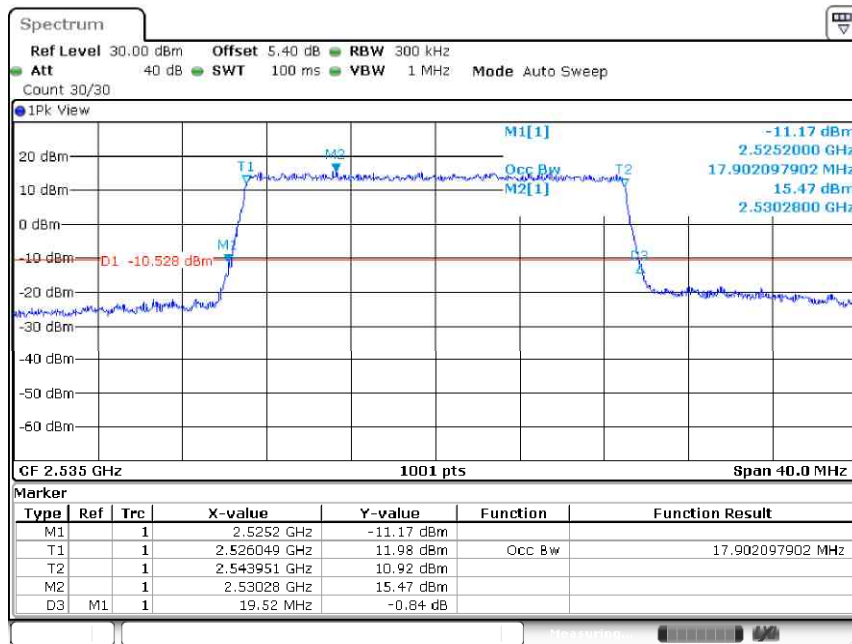


Band7-20MHz-16QAM-20850-100RB#0-17.902



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



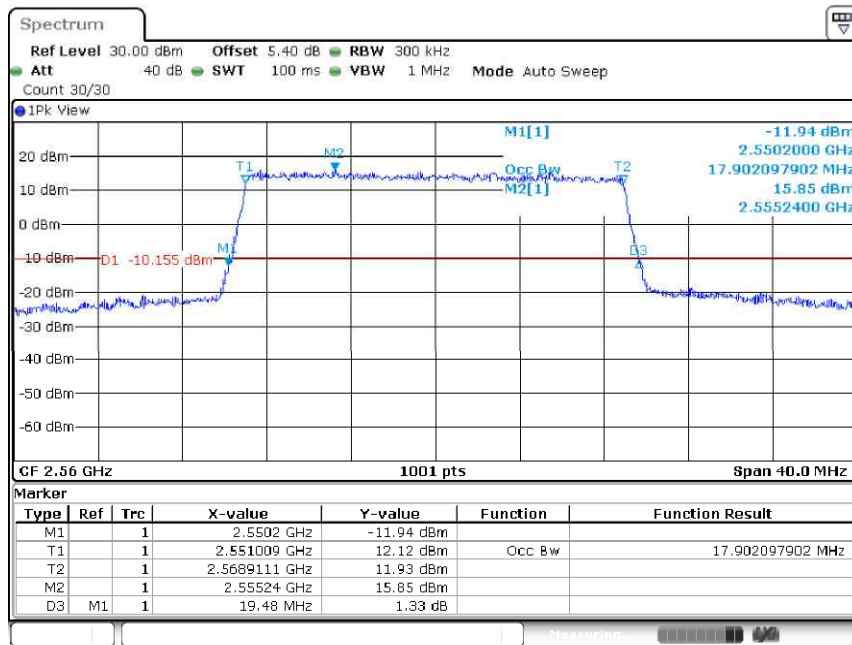
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Band7-20MHz-16QAM-21350-100RB#0-17.902



Date: 14.AUG.2020 23:23:53



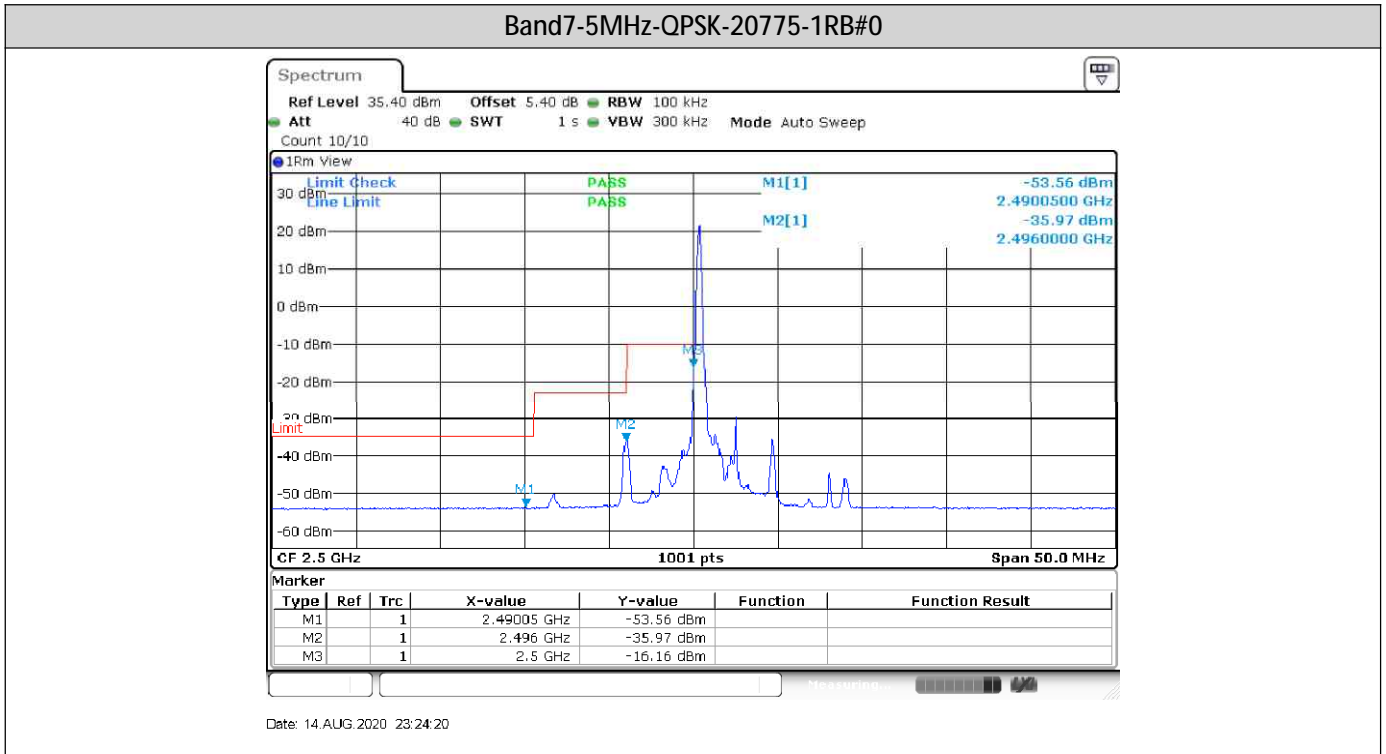
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5. Band Edge Compliance

5.1. Test Plots

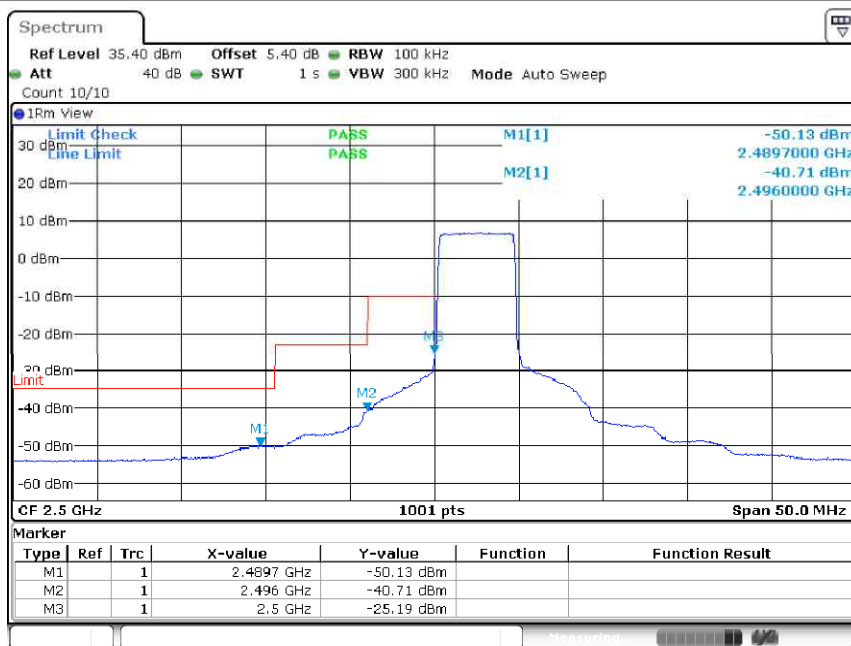


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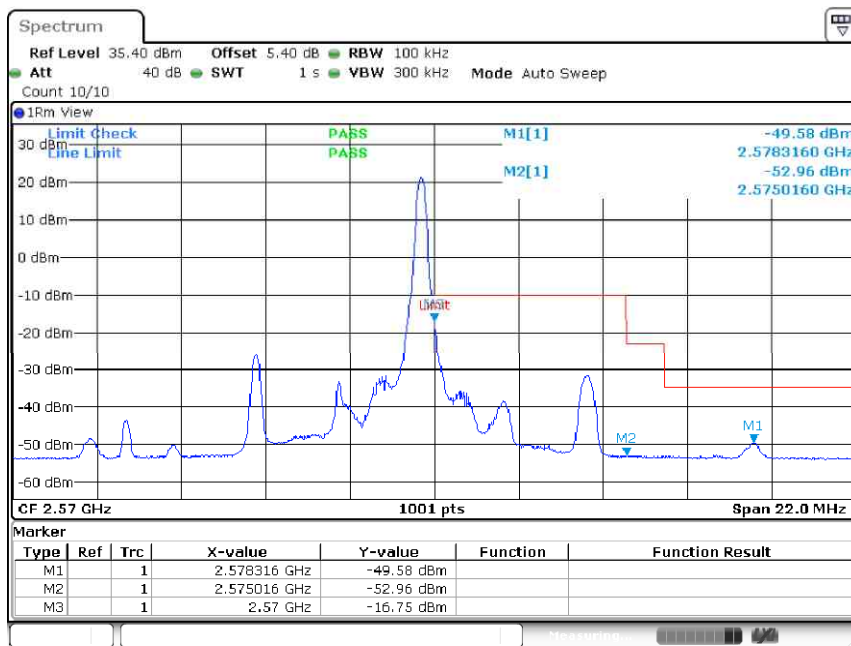


Band7-5MHz-QPSK-20775-25RB#0



Date: 14.AUG.2020 23:25:54

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



Date: 14.AUG.2020 23:25:07



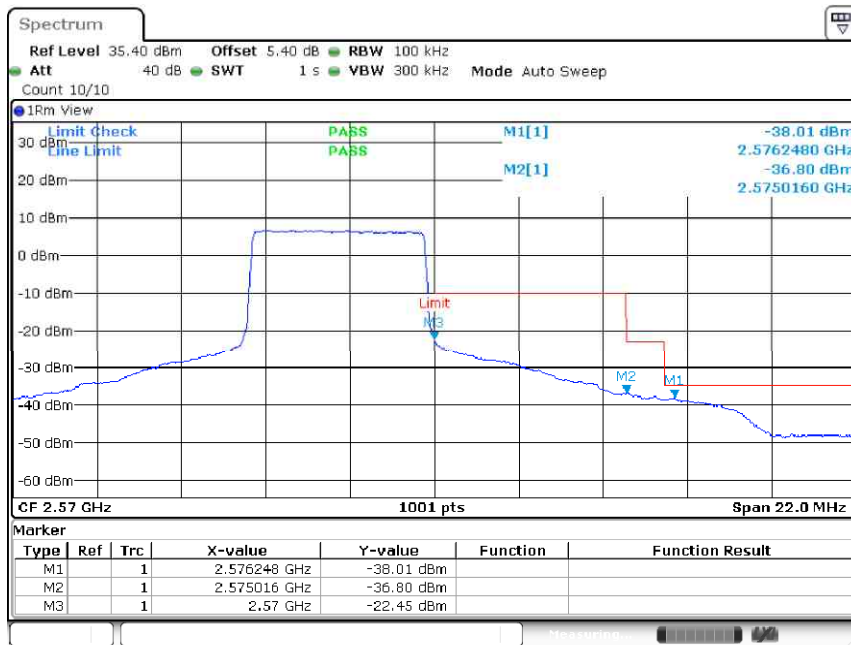
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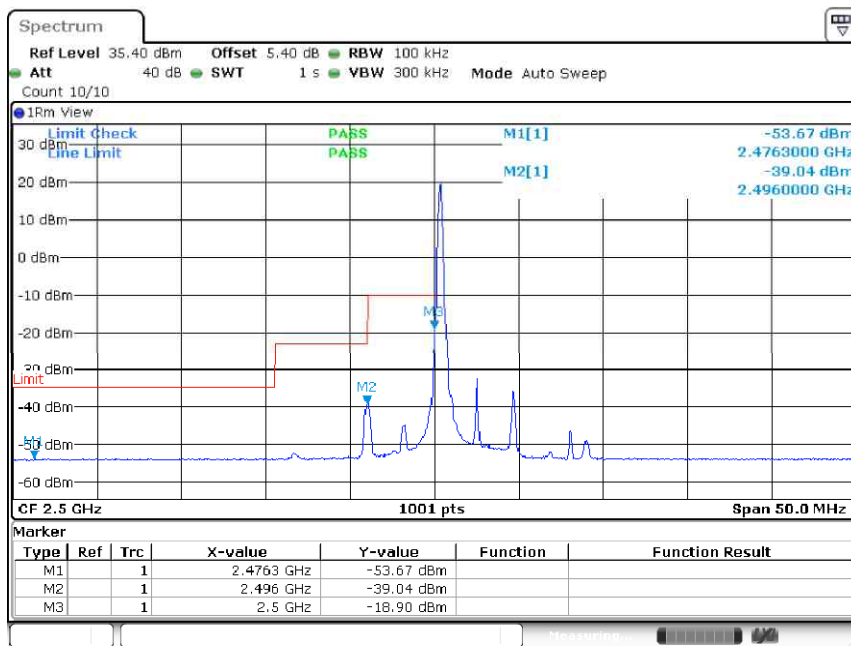


Band7-5MHz-QPSK-21425-25RB#0



Date: 14 AUG 2020 23:28:37

Band7-5MHz-64QAM-20775-1RB#0



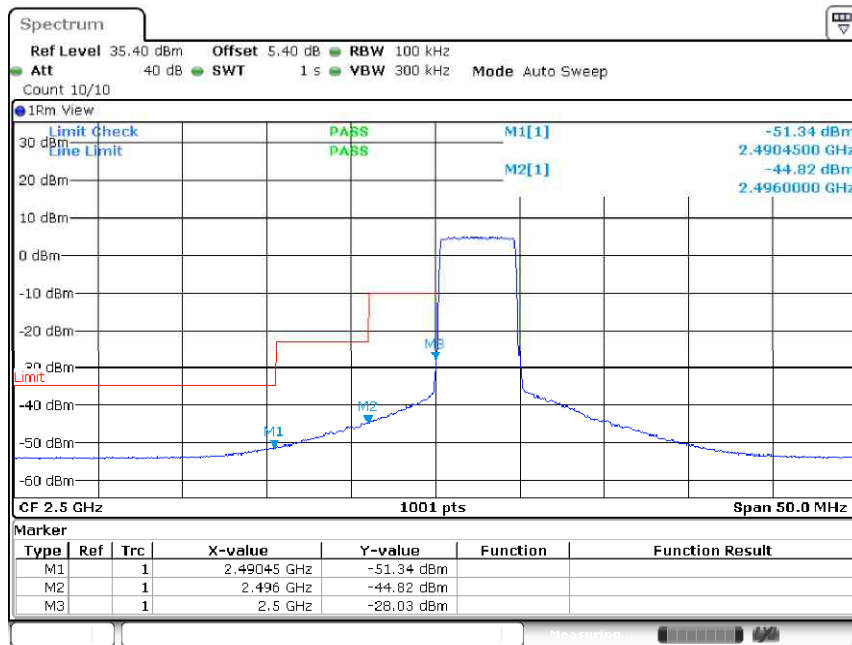
Date: 15 AUG 2020 02:22:20



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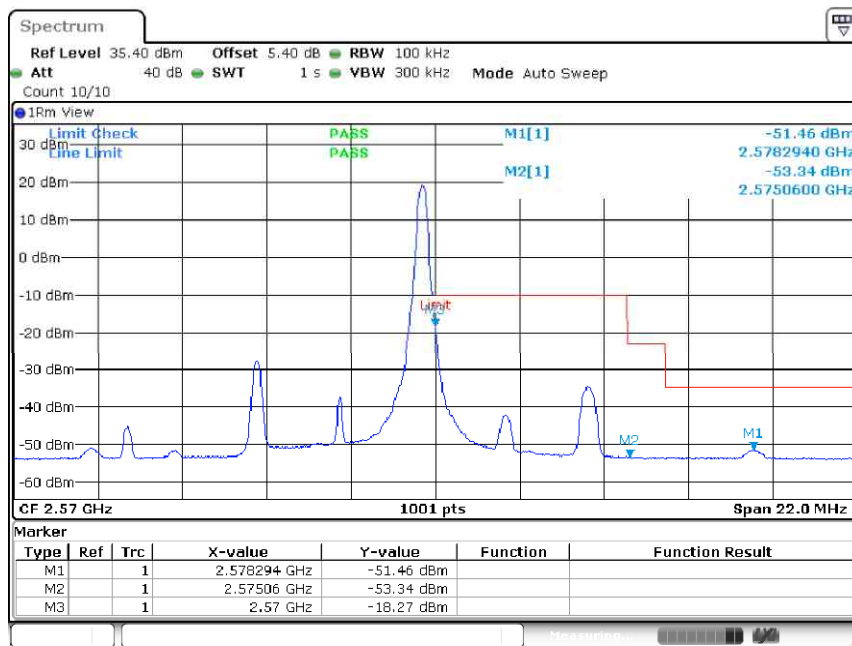


Band7-5MHz-64QAM-20775-25RB#0



Date: 15.AUG.2020 02:23:14

Band7-5MHz-64QAM-21425-1RB#24



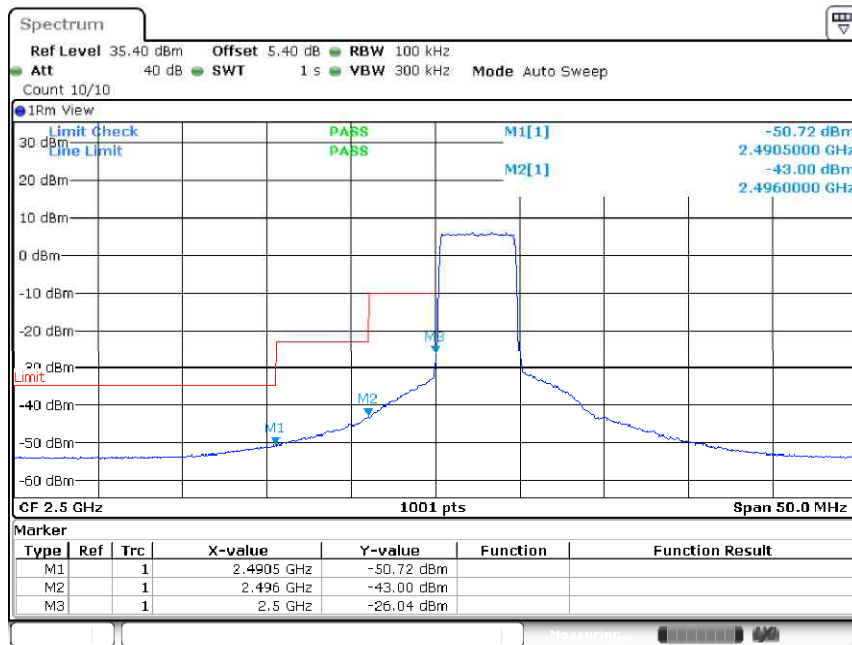
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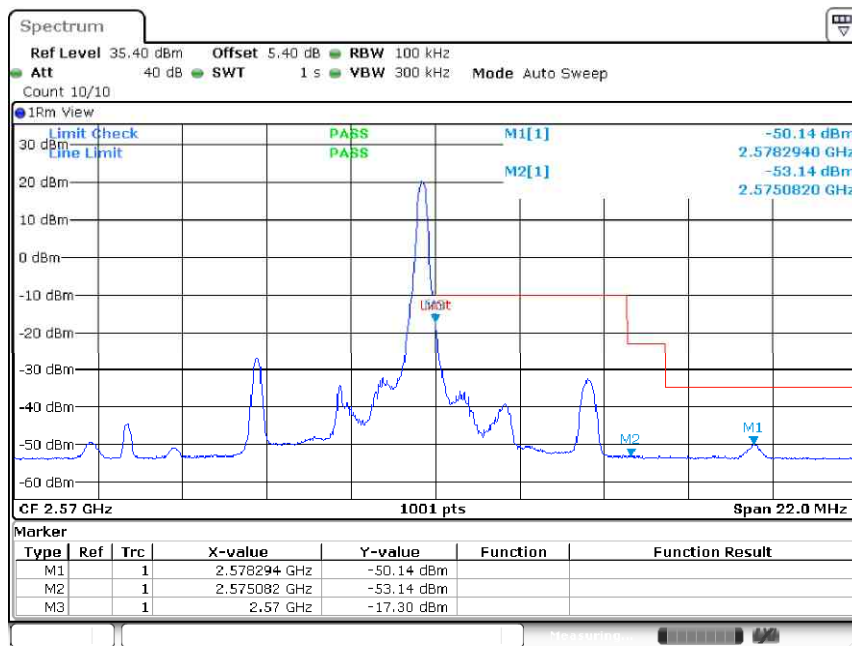


Band7-5MHz-16QAM-20775-25RB#0



Date: 14.AUG.2020 23:28:15

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



Date: 14.AUG.2020 23:25:29



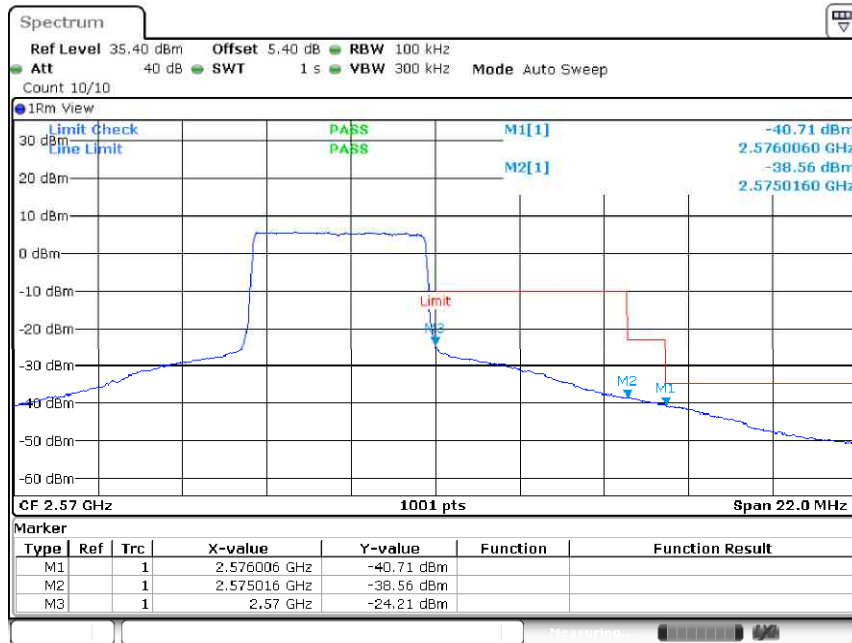
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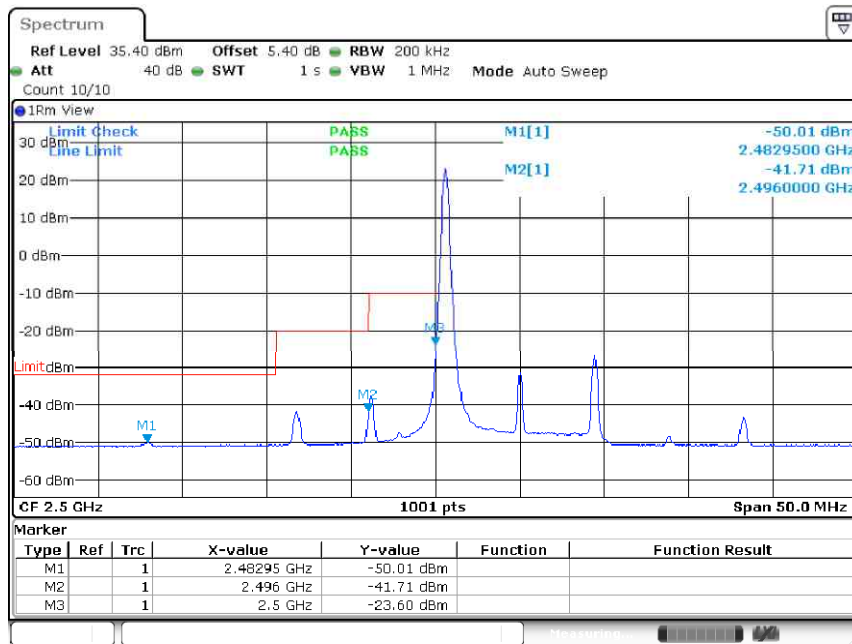


Band7-5MHz-16QAM-21425-25RB#0



Date: 14.AUG.2020 23:28:59

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



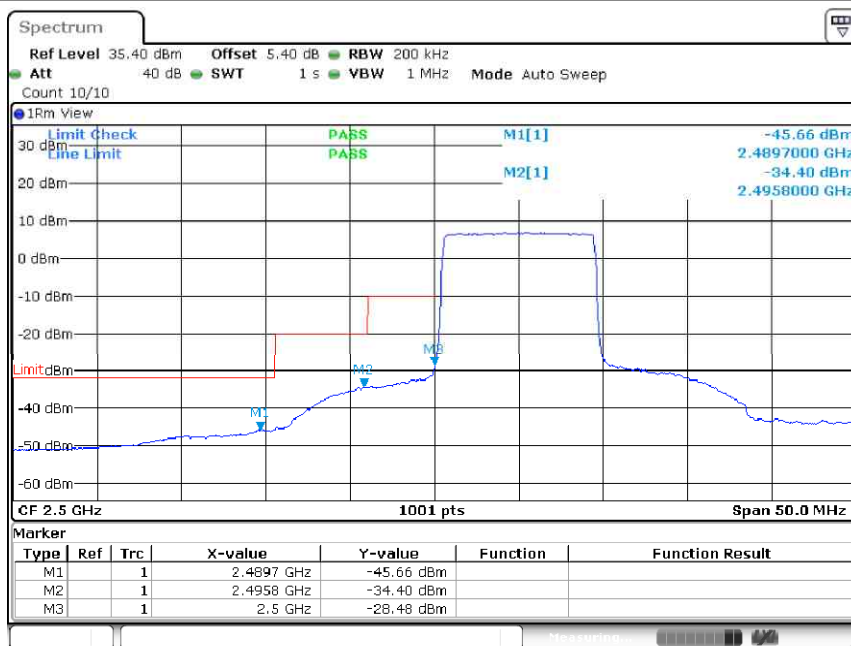
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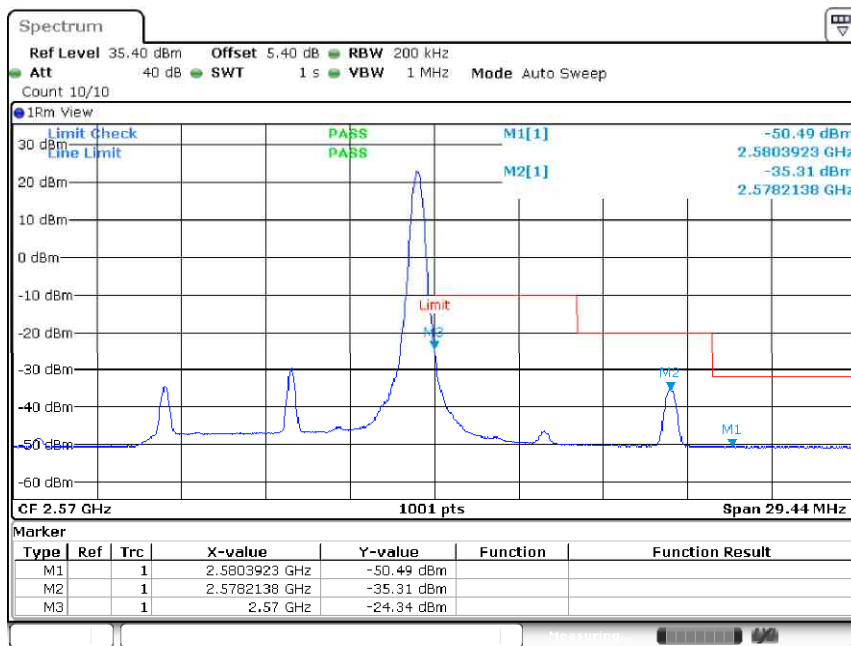


Band7-10MHz-QPSK-20800-50RB#0



Date: 14.AUG.2020 23:28:59

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



Date: 14.AUG.2020 23:28:12



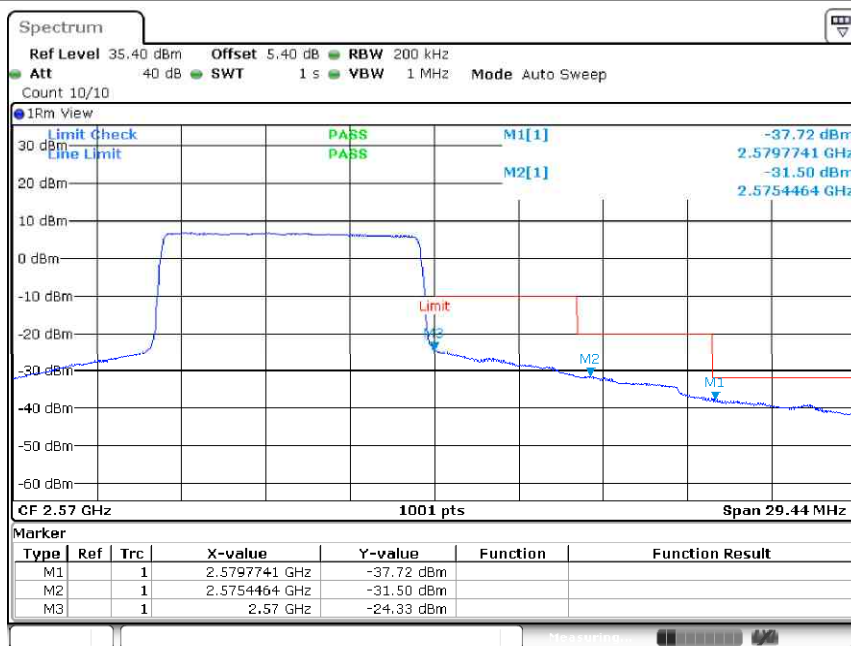
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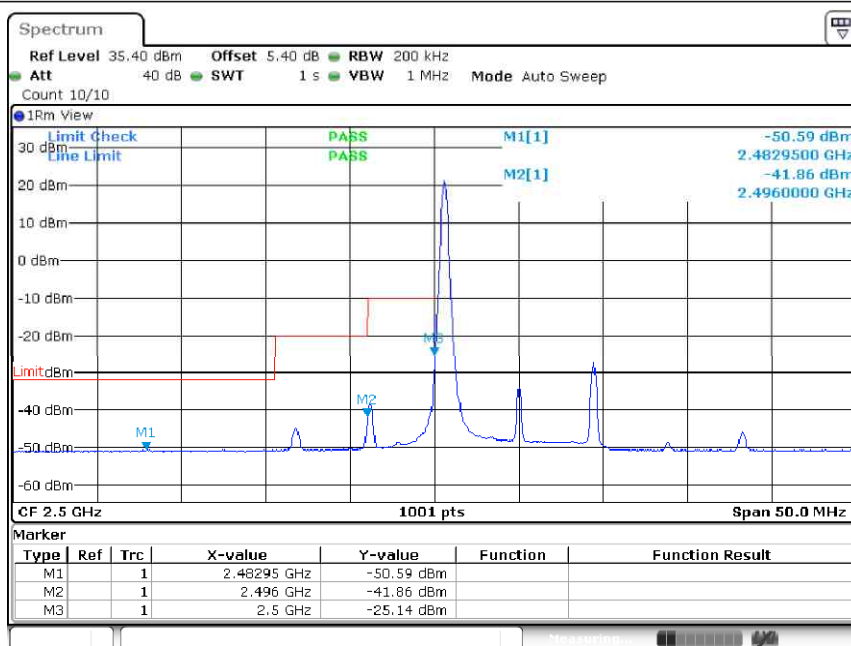


Band7-10MHz-QPSK-21400-50RB#0



Date: 14.AUG.2020 23:29:42

Band7-10MHz-64QAM-20800-1RB#0



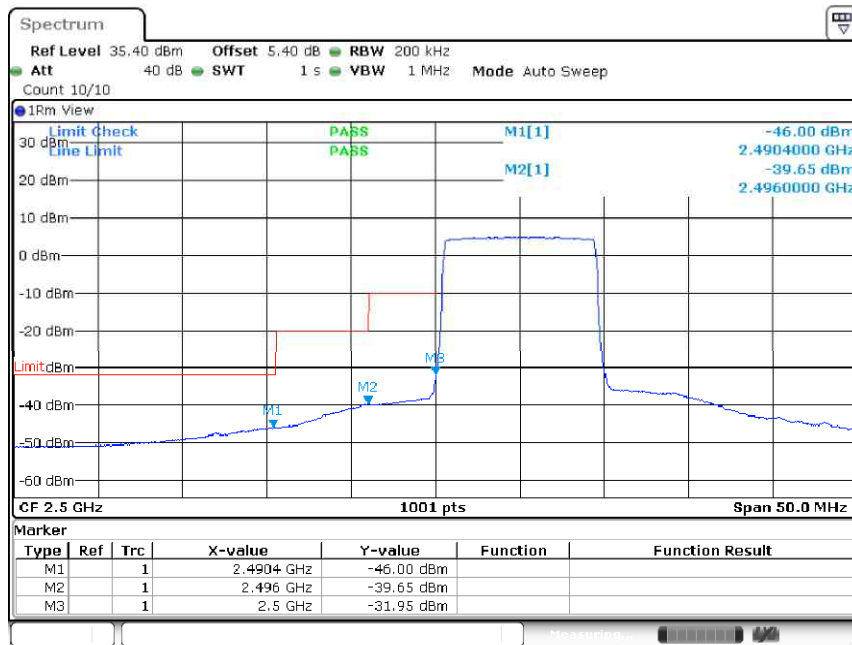
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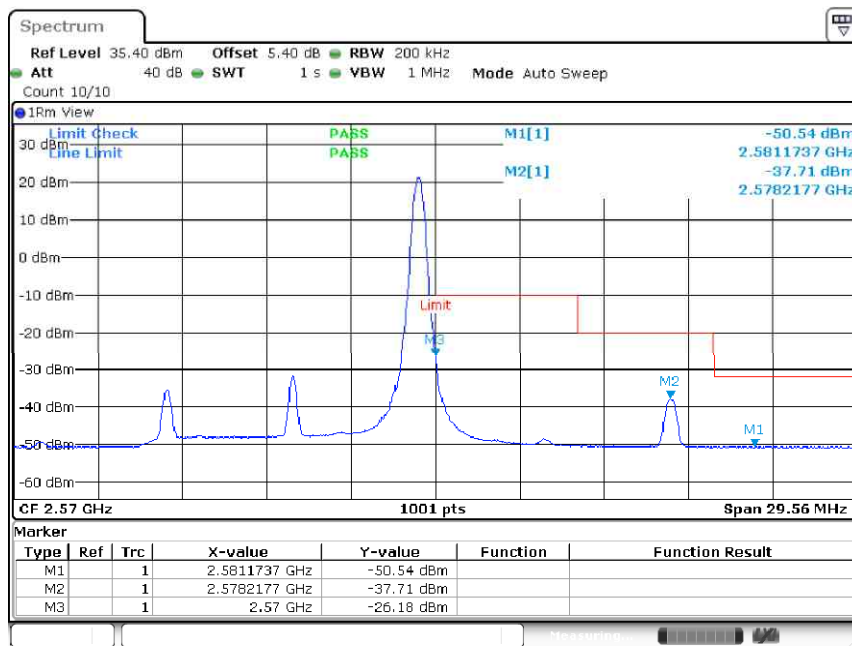


Band7-10MHz-64QAM-20800-50RB#0



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Band7-10MHz-64QAM-21400-1RB#49



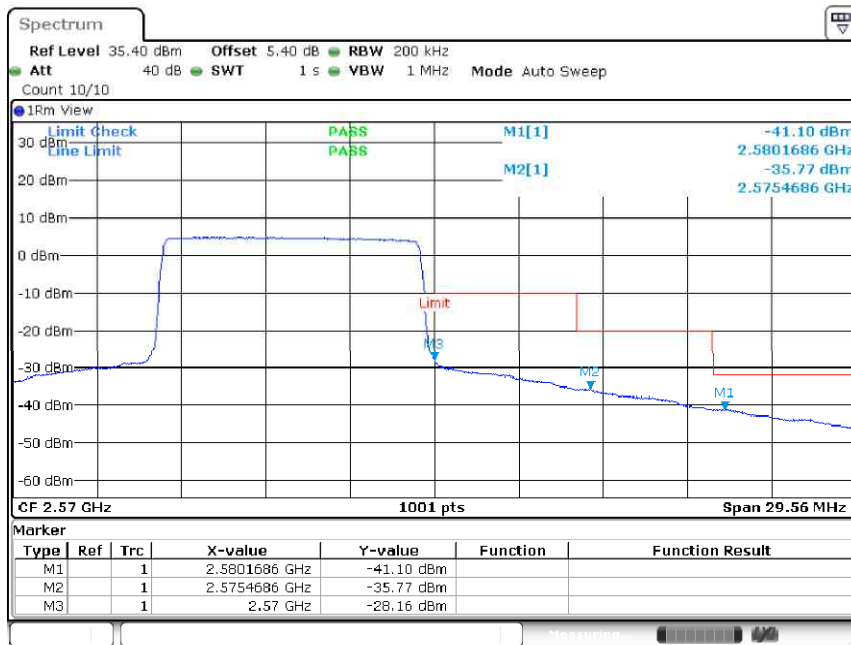
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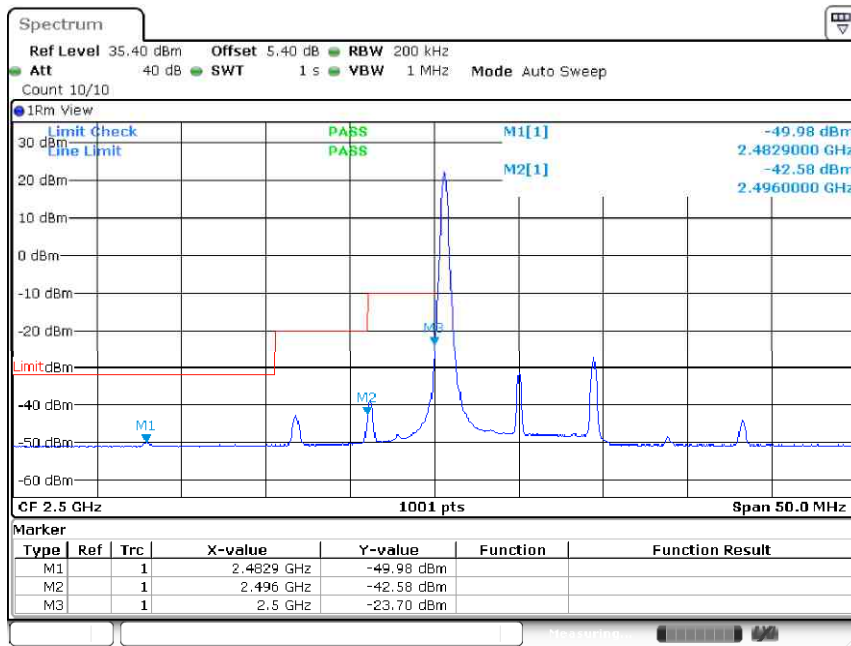


Band7-10MHz-64QAM-21400-50RB#0



Date: 16.AUG 2020 02:25:19

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



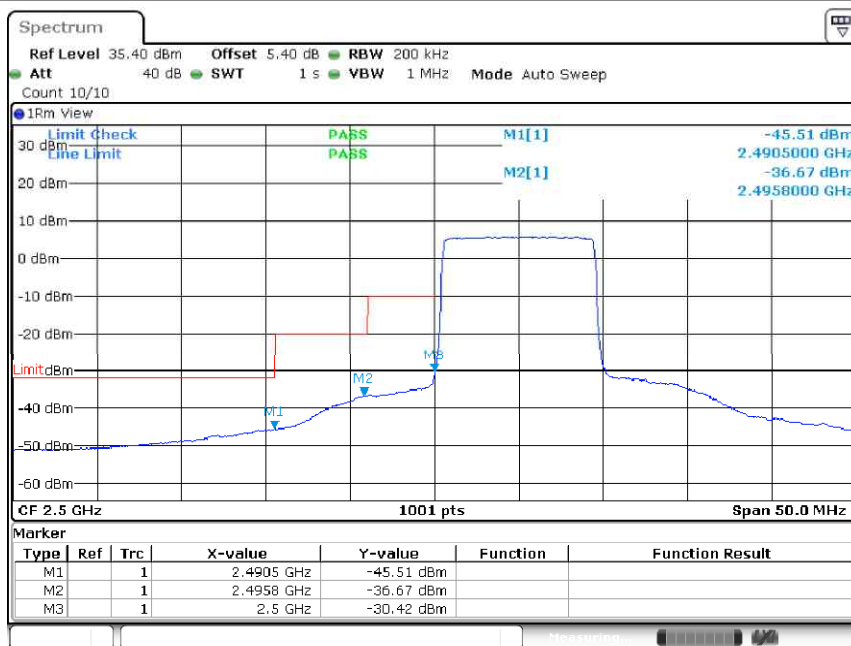
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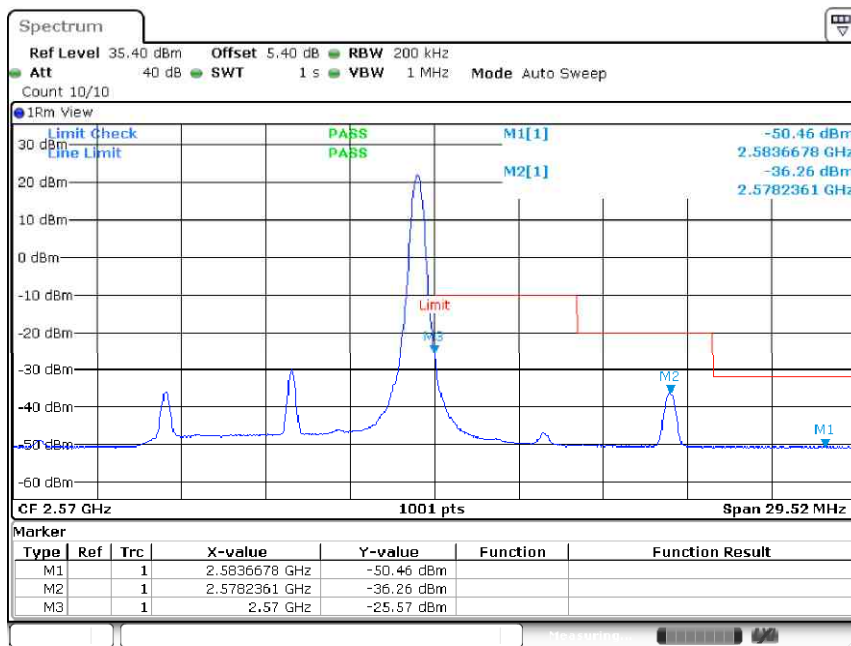


Band7-10MHz-16QAM-20800-50RB#0



Date: 14.AUG.2020 23:29:21

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



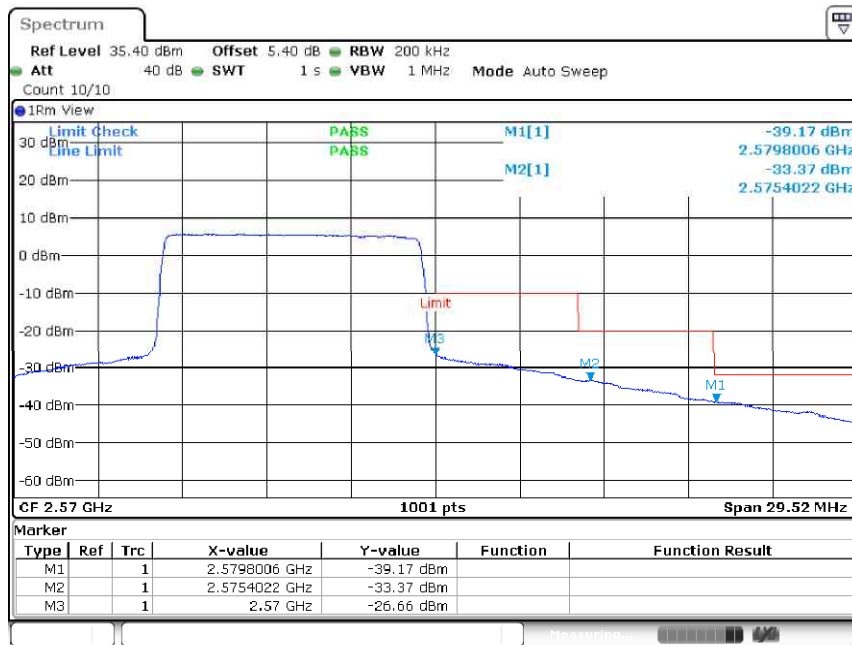
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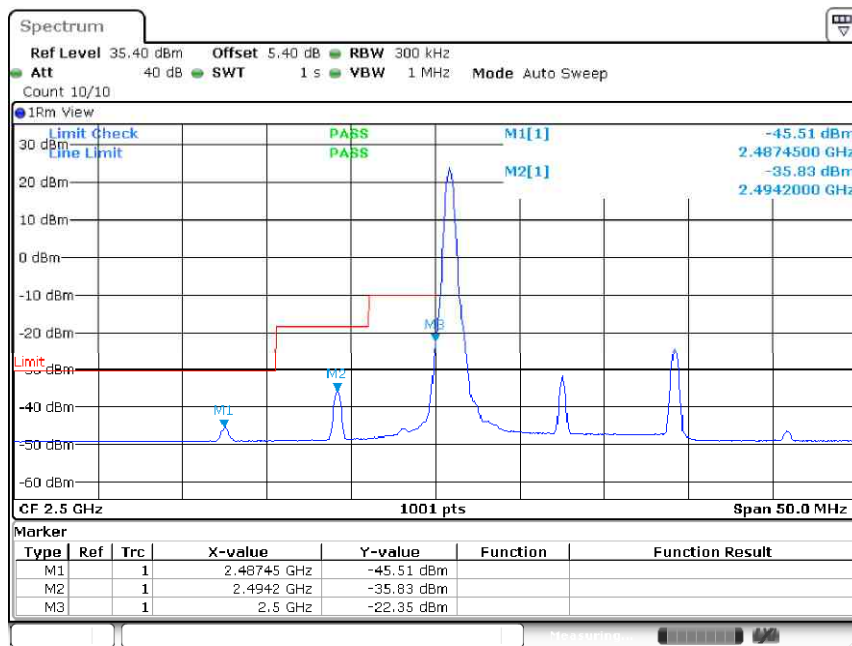


Band7-10MHz-16QAM-21400-50RB#0



Date: 14.AUG.2020 23:30:04

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



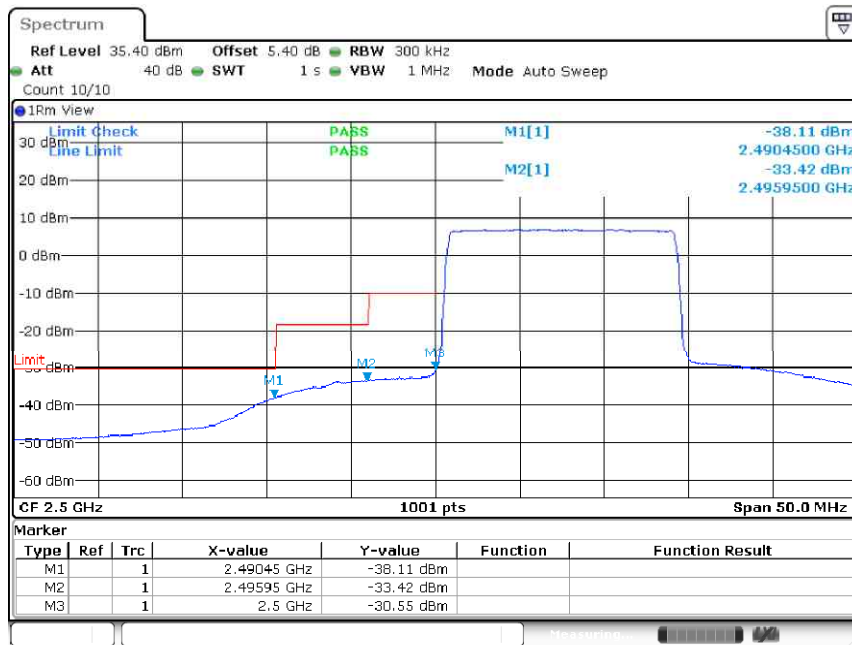
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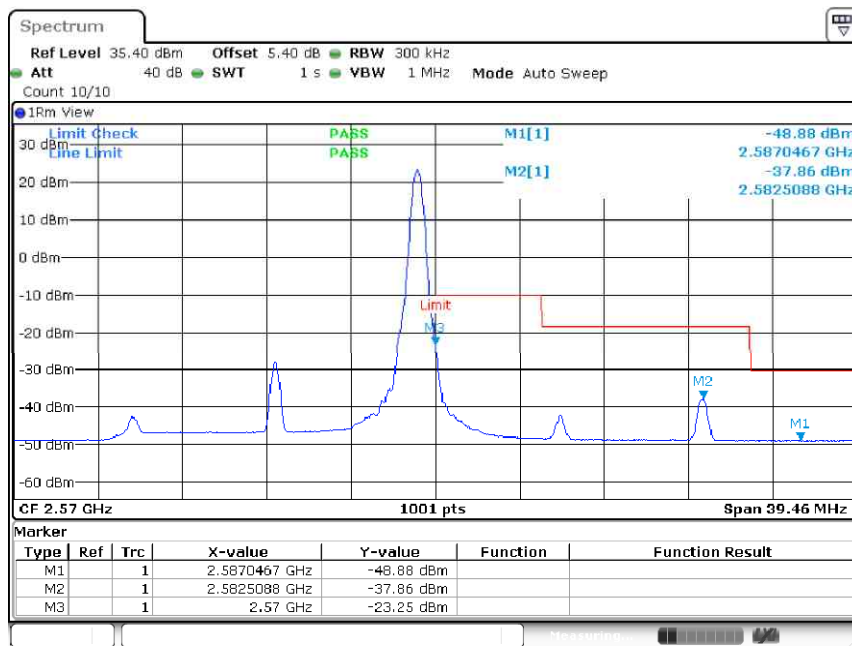


Band7-15MHz-QPSK-20825-75RB#0



Date: 14.AUG.2020 23:32:05

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



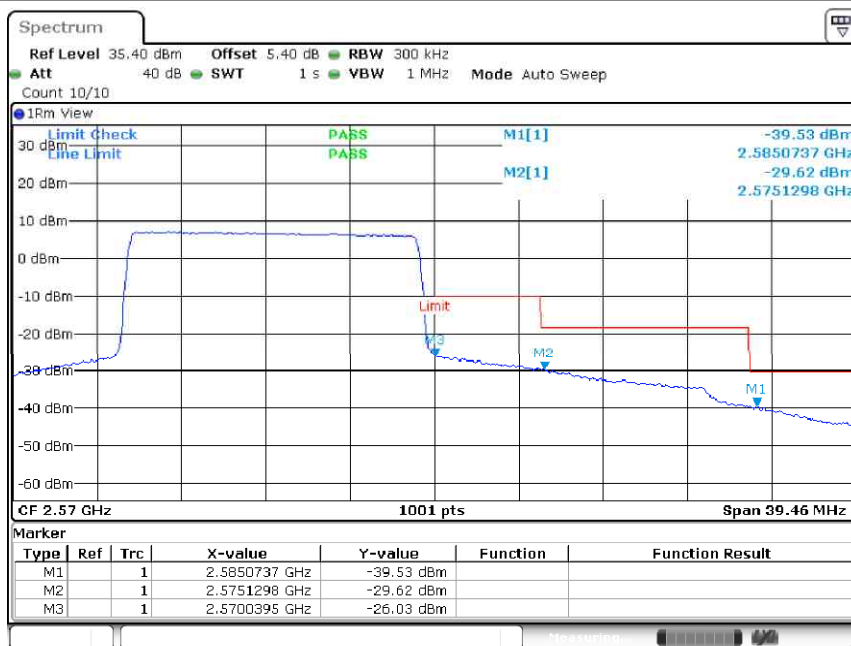
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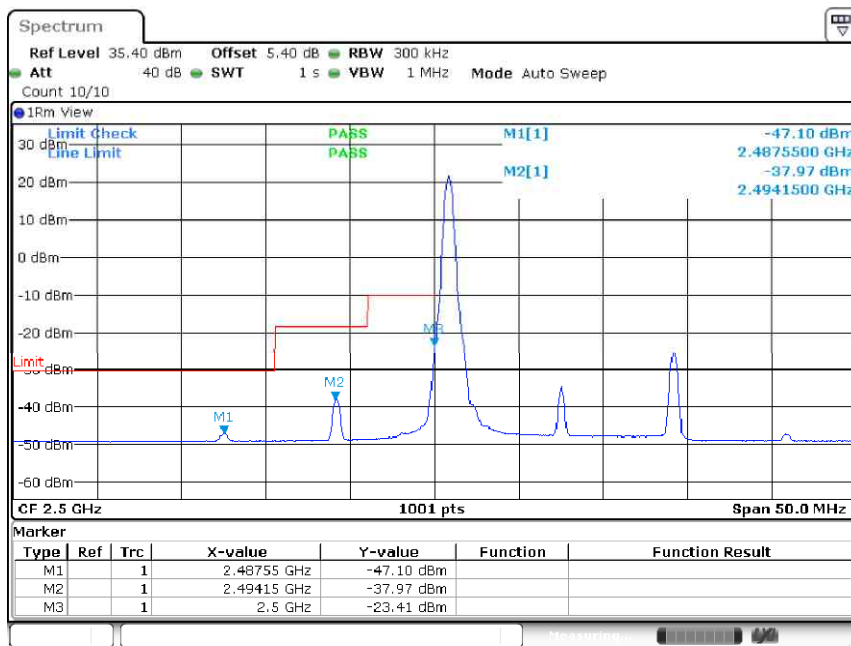


Band7-15MHz-QPSK-21375-75RB#0



Date: 14.AUG.2020 23:32:48

Band7-15MHz-64QAM-20825-1RB#0



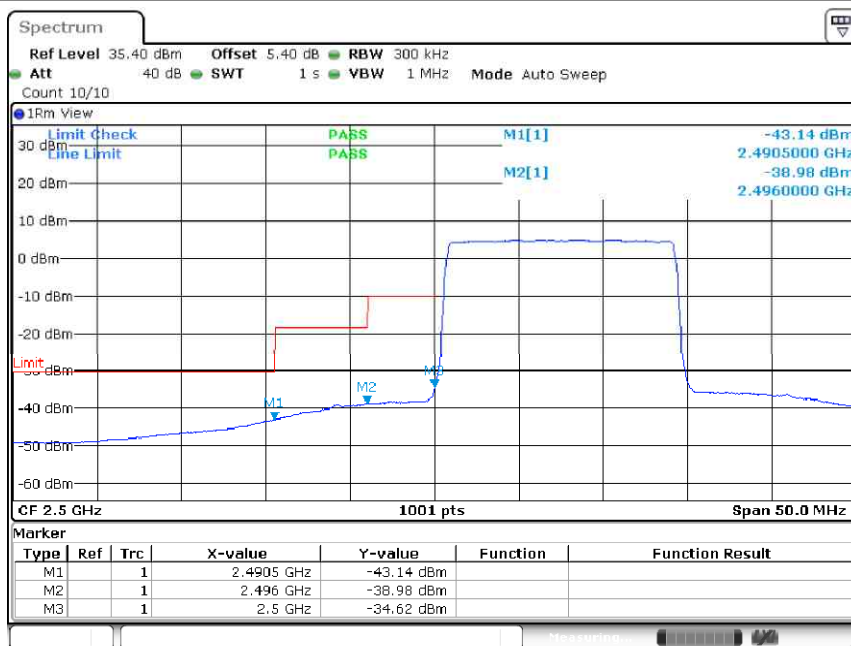
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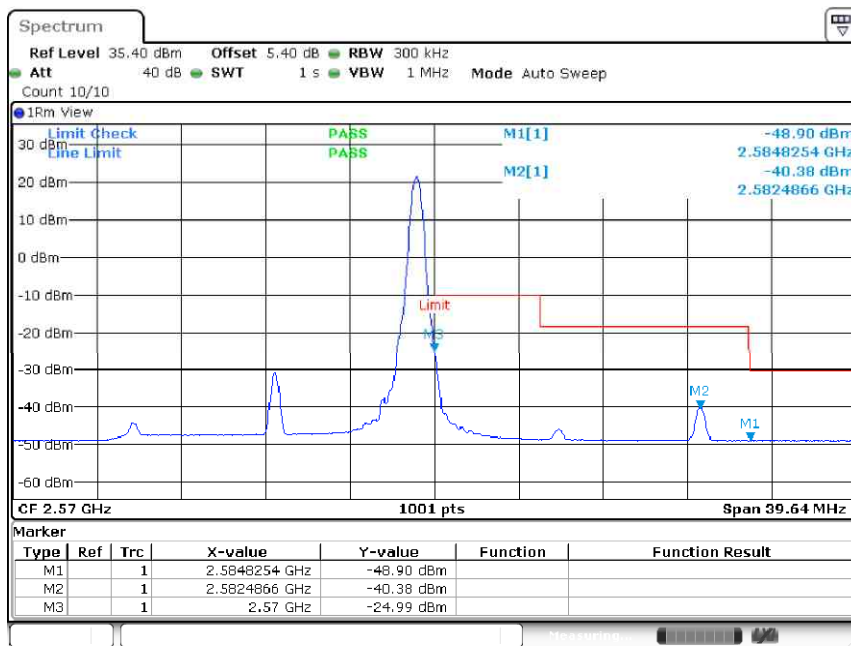


Band7-15MHz-64QAM-20825-75RB#0



Date: 15.AUG.2020 02:28:42

Band7-15MHz-64QAM-21375-1RB#74



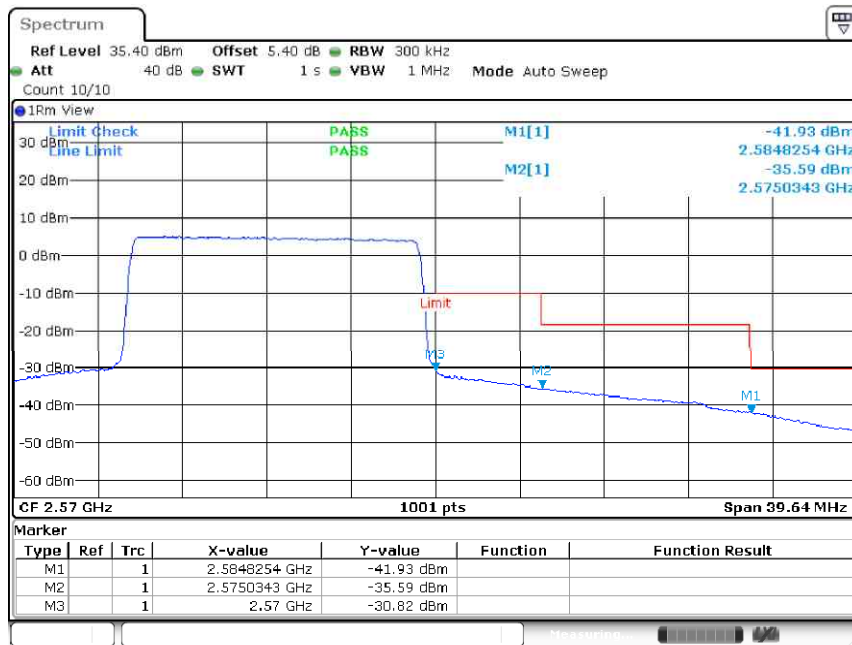
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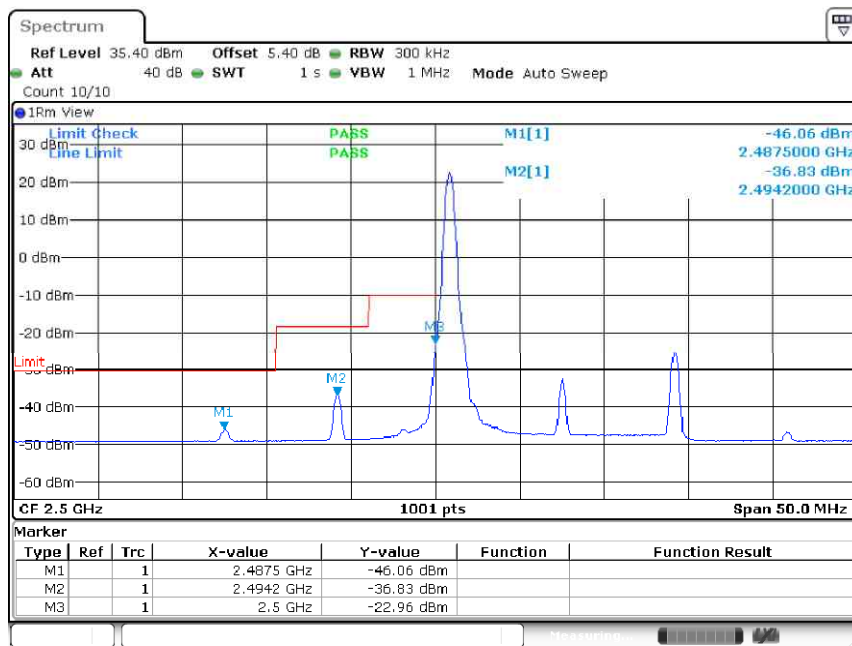


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Date: 16.AUG.2020 02:27:03

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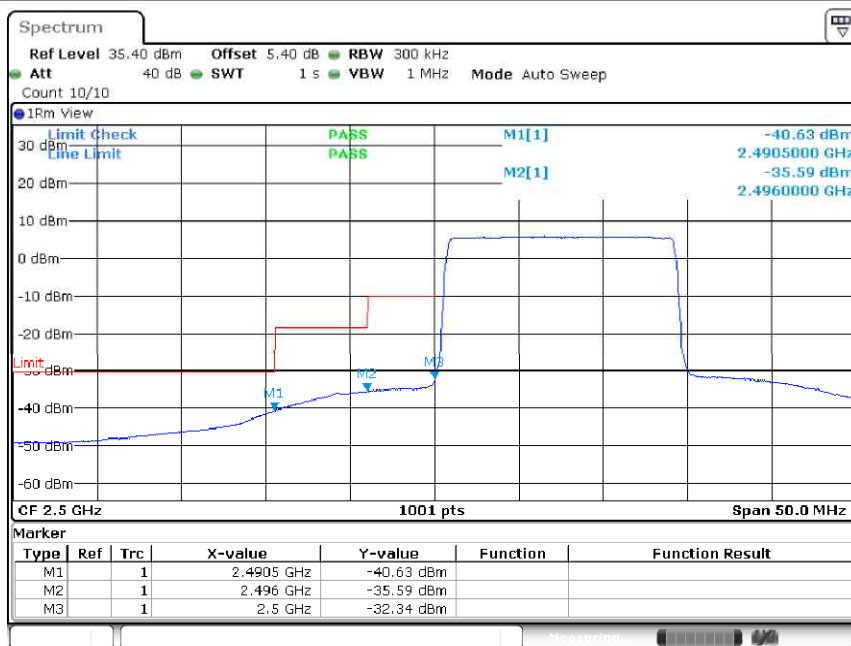
Date: 14.AUG.2020 23:30:53



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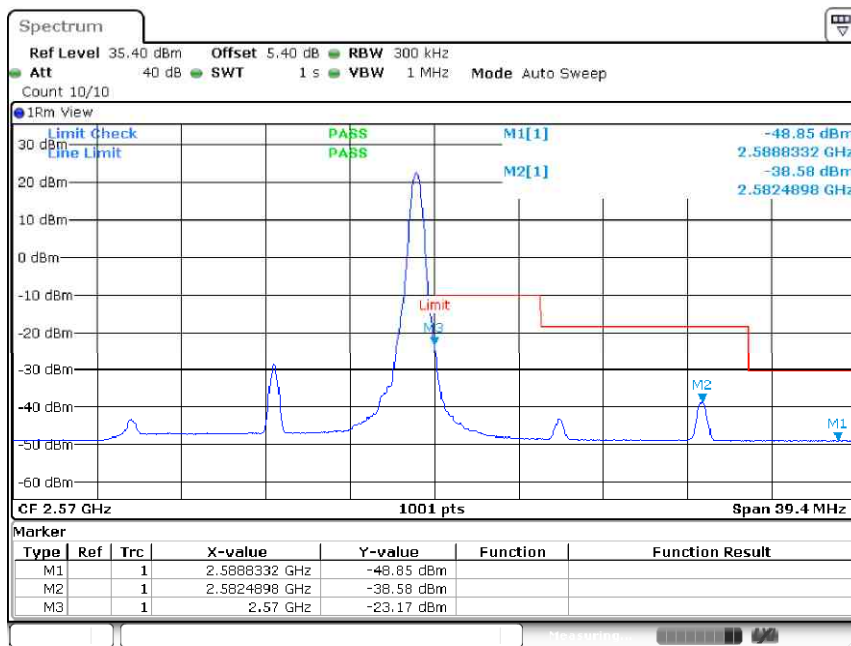


Band7-15MHz-16QAM-20825-75RB#0



Date: 14.AUG.2020 23:32:26

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



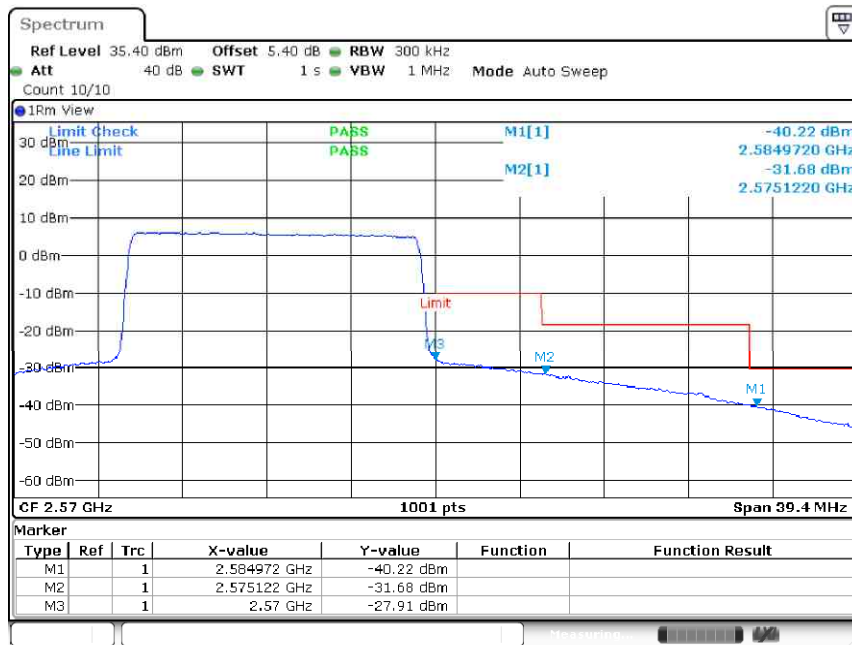
Date: 14.AUG.2020 23:31:40



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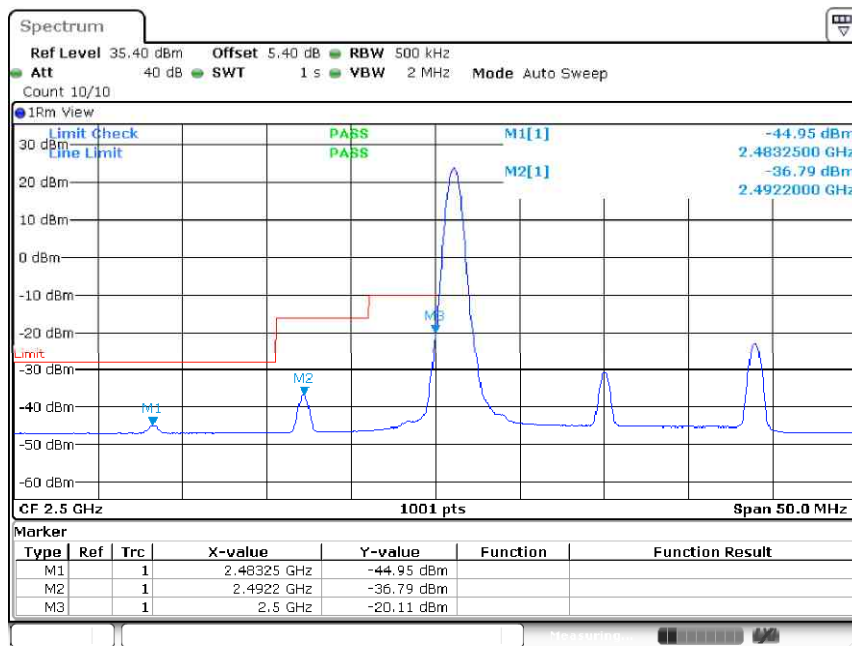


Band7-15MHz-16QAM-21375-75RB#0



Date: 14.AUG.2020 23:33:10

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



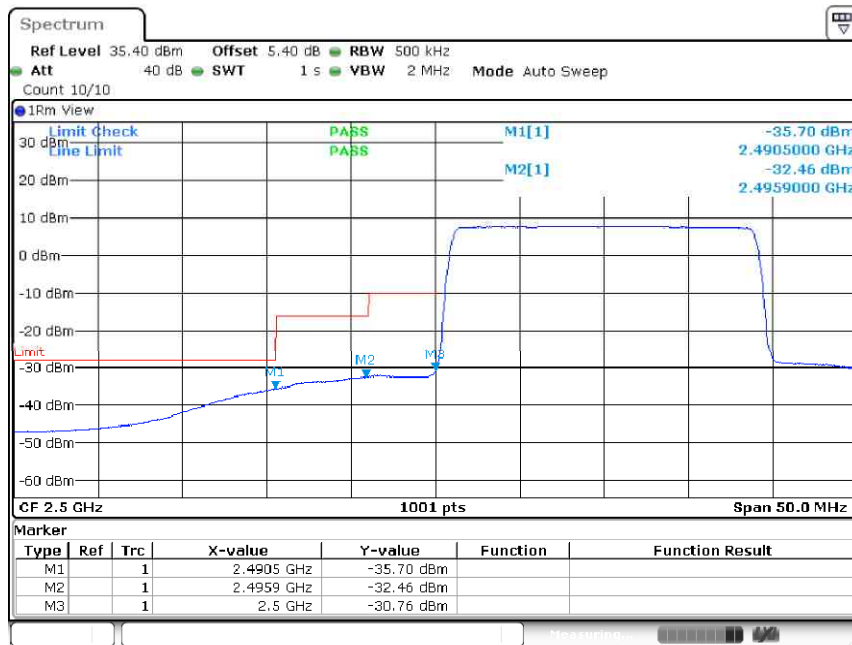
Date: 14.AUG.2020 23:33:37



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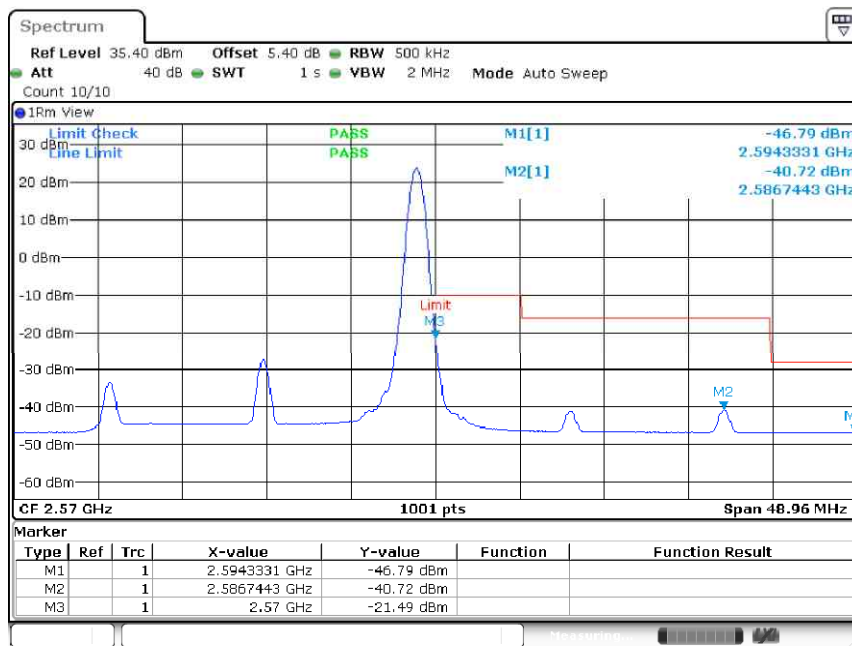


Band7-20MHz-QPSK-20850-100RB#0



Date: 14.AUG.2020 23:35:11

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



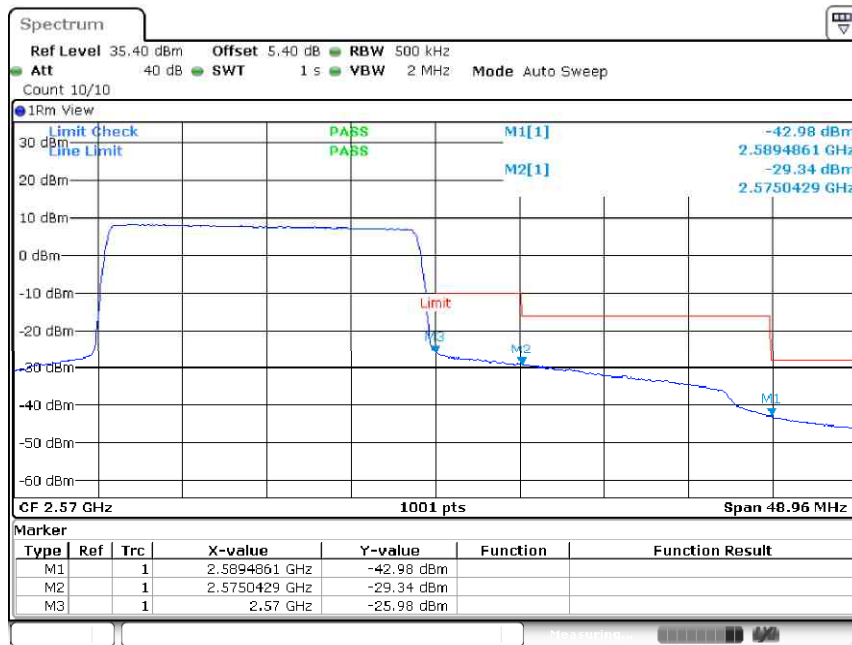
Date: 14.AUG.2020 23:34:24



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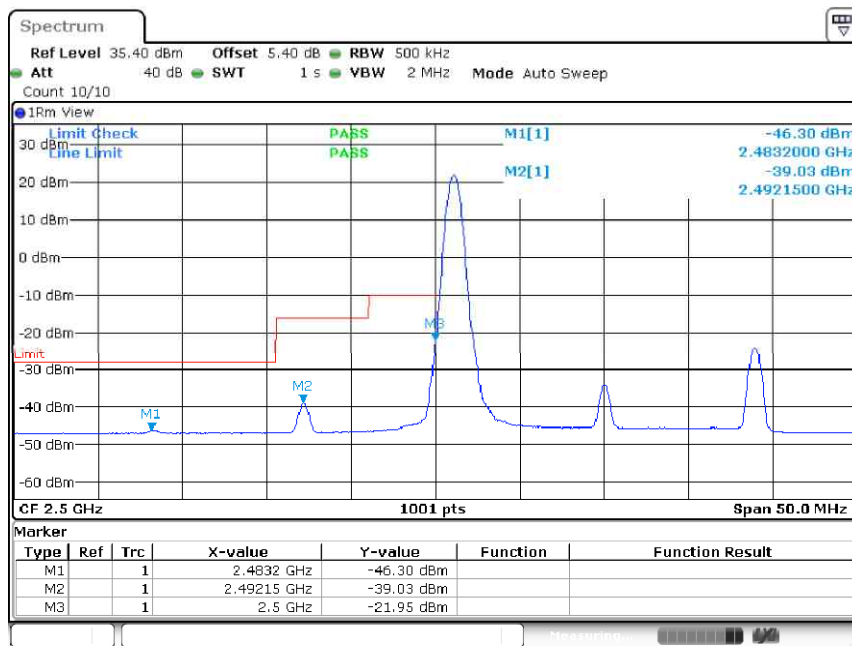


Band7-20MHz-QPSK-21350-100RB#0



Date: 14 AUG 2020 23:35:54

Band7-20MHz-64QAM-20850-1RB#0



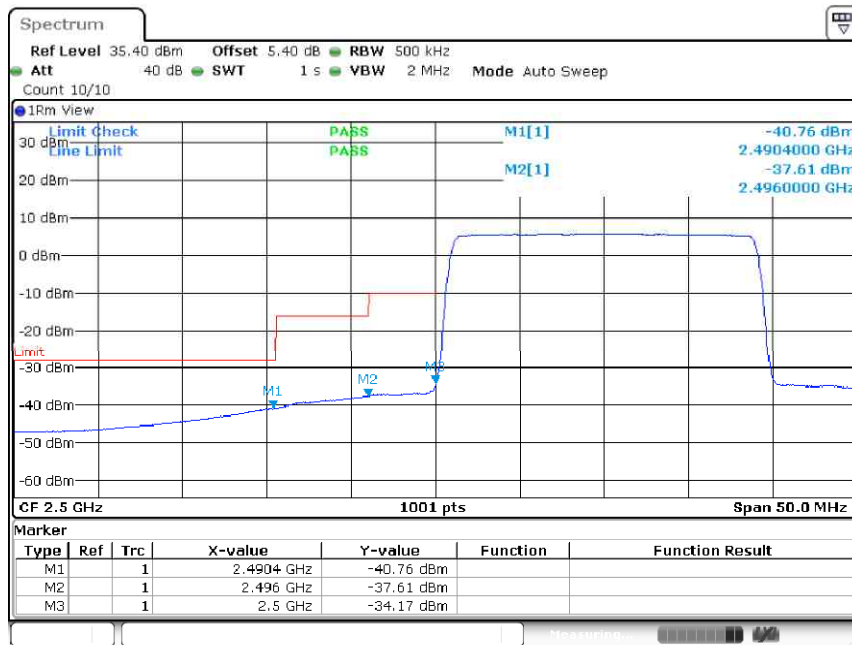
Date: 15 AUG 2020 02:27:31



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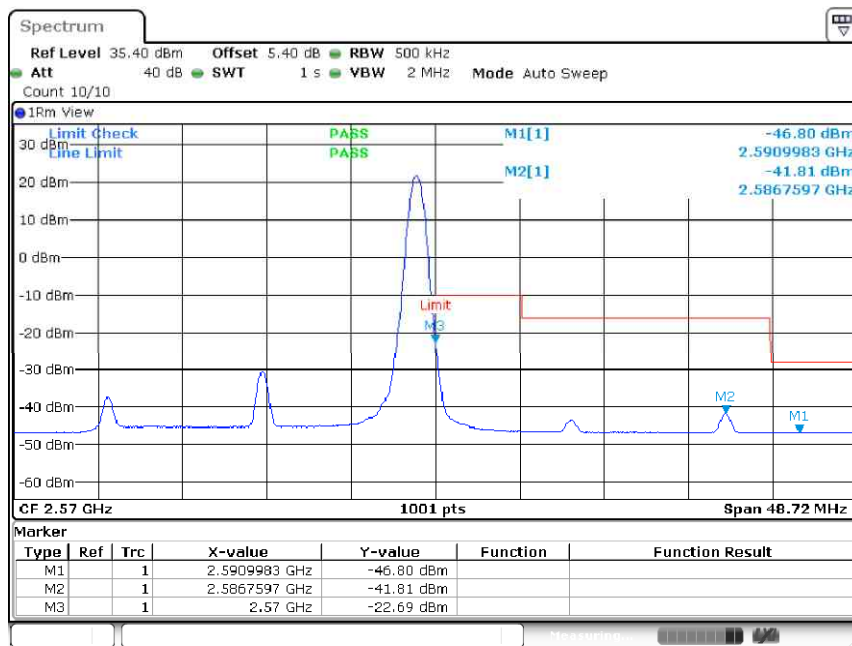


Band7-20MHz-64QAM-20850-100RB#0



Date: 15.AUG.2020 02:28:25

Band7-20MHz-64QAM-21350-1RB#99



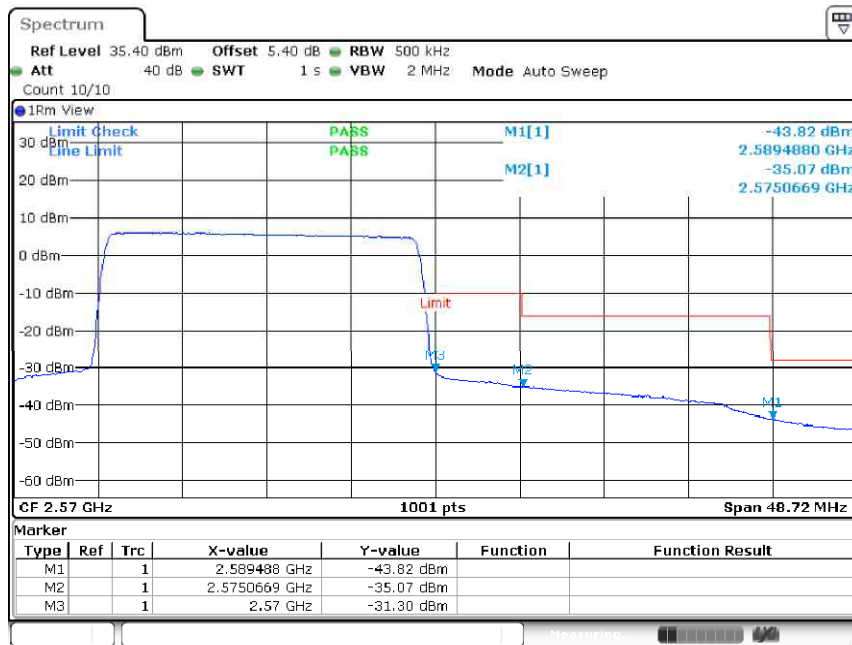
Date: 15.AUG.2020 02:27:58



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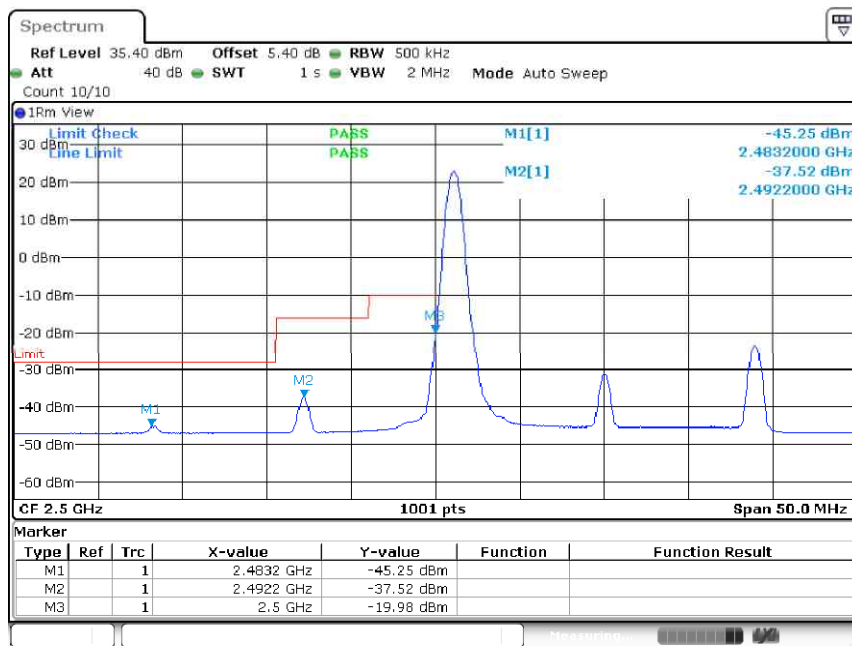


Band7-20MHz-64QAM-21350-100RB#0



Date: 16.AUG 2020 02:28:47

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



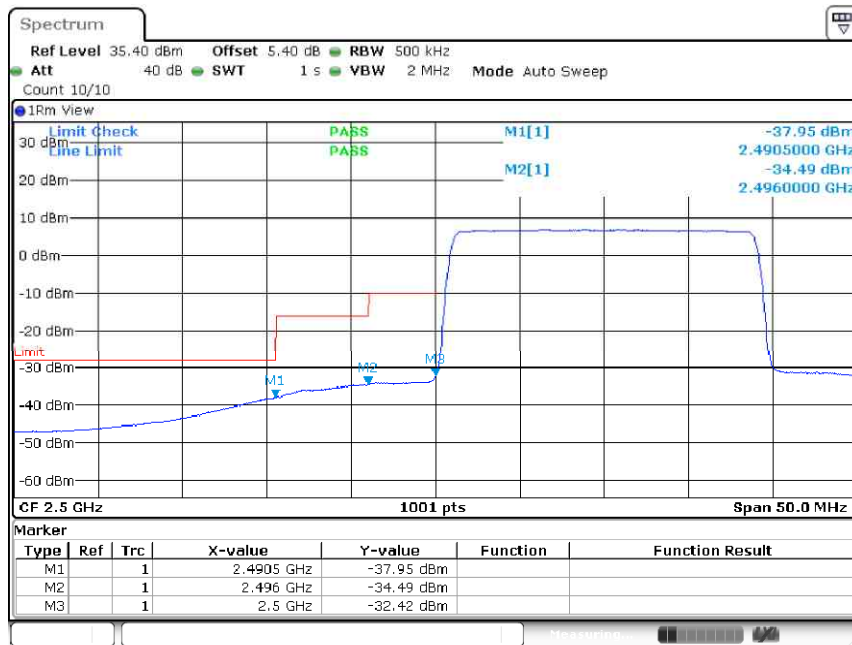
Date: 14.AUG 2020 23:33:58



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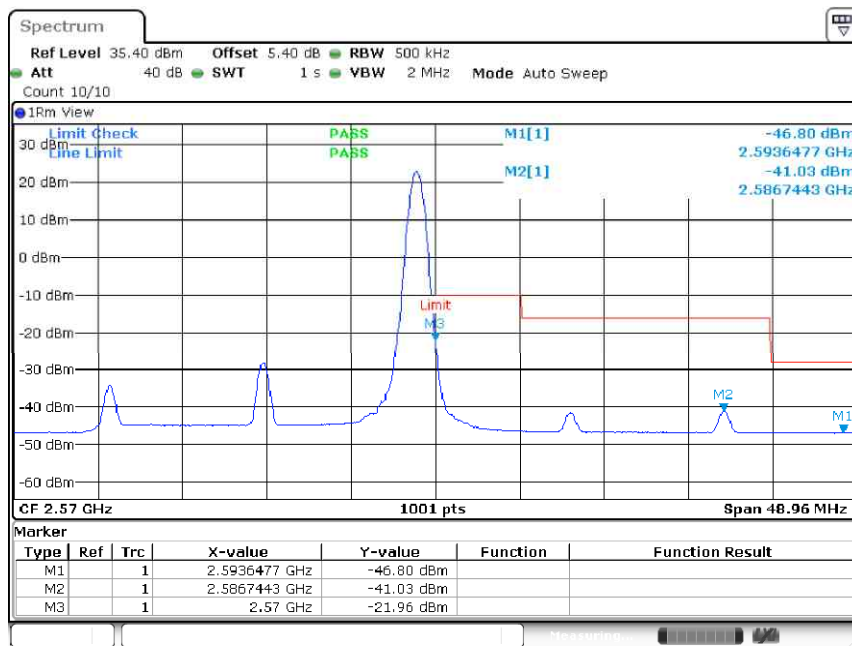


Band7-20MHz-16QAM-20850-100RB#0



Date: 14.AUG.2020 23:35:33

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



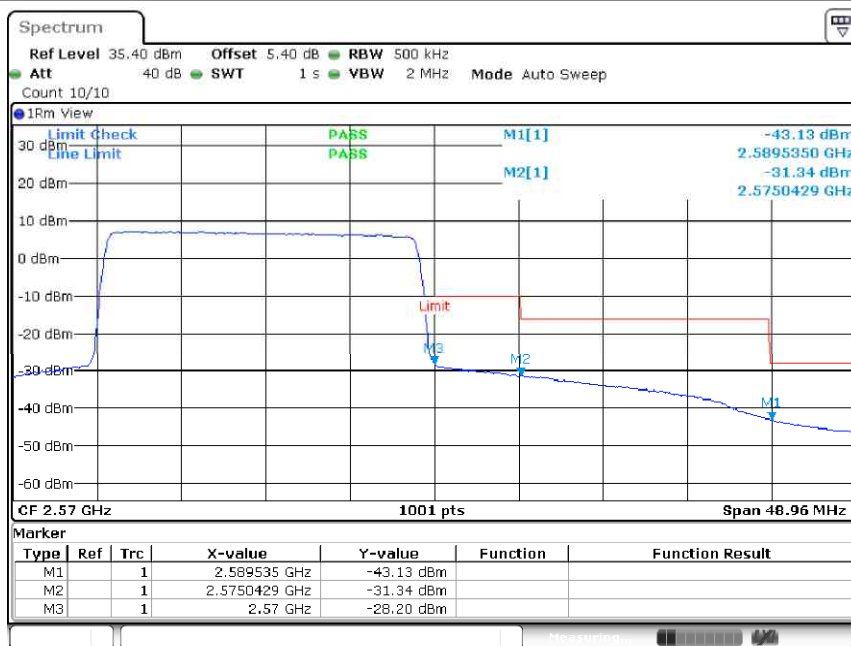
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Band7-20MHz-16QAM-21350-100RB#0



Date: 14.AUG.2020 23:38:16



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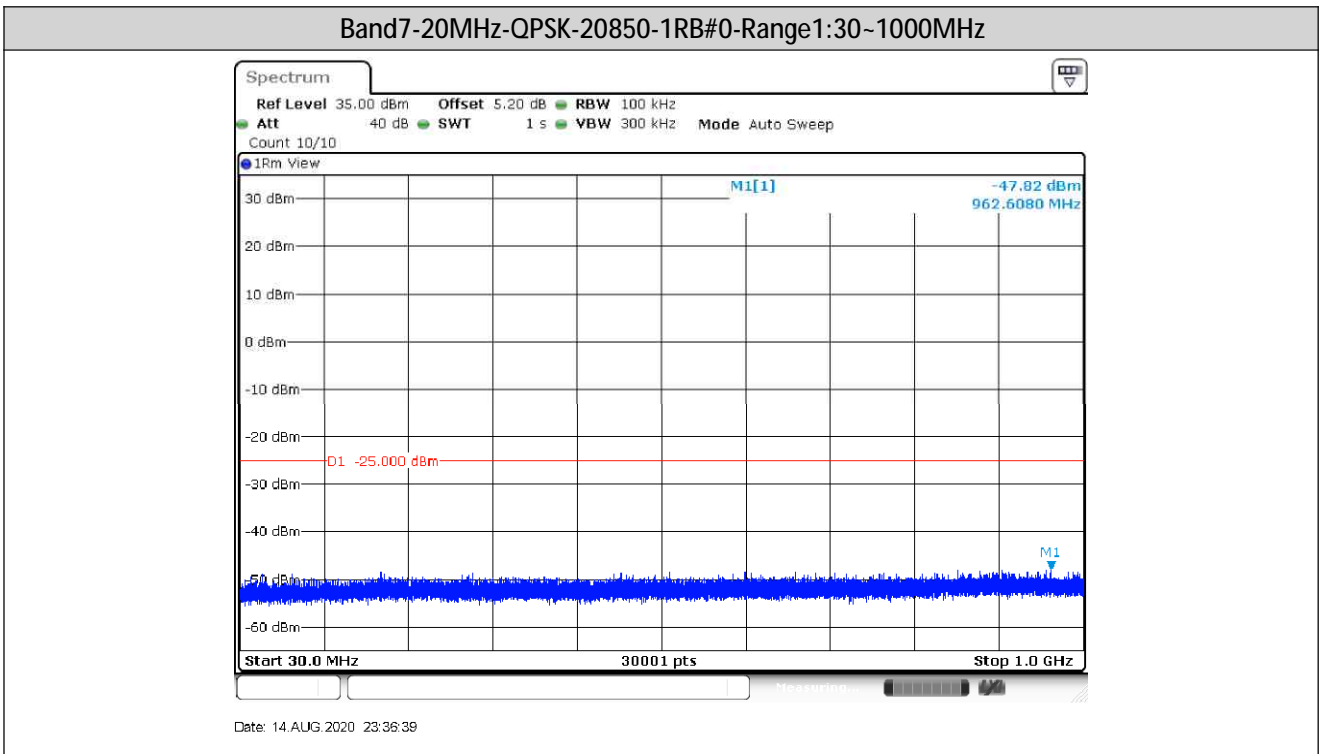


6. Spurious Emission at Antenna Terminal

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: only the worst case data displayed in this report.

6.1. Test Plots

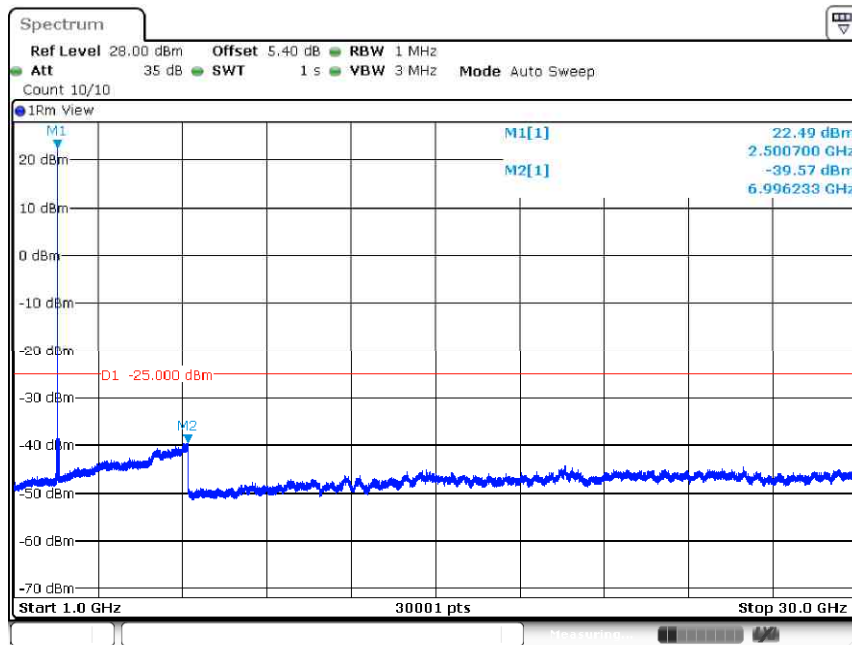


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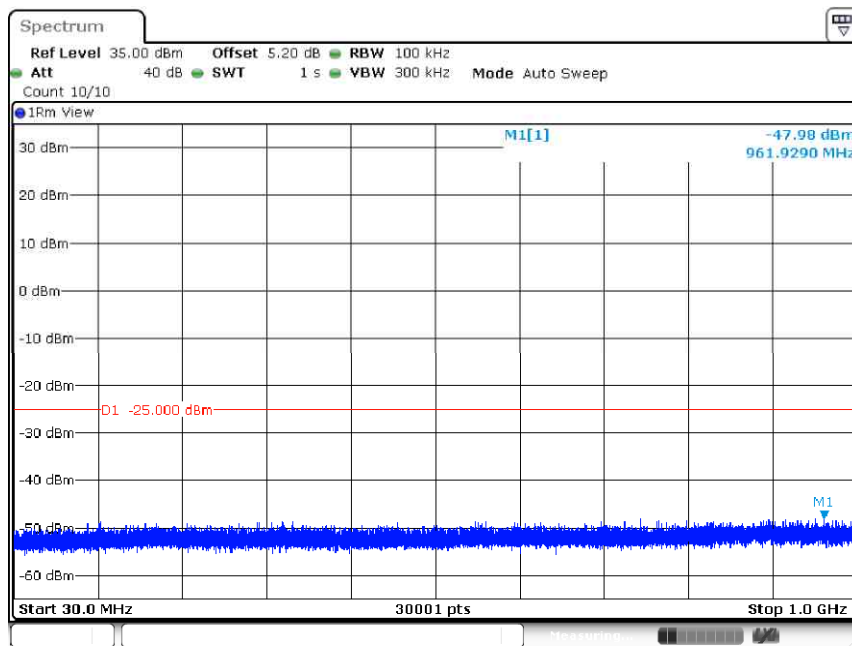


Band7-20MHz-QPSK-20850-1RB#0-Range2:1000~30000MHz



Date: 14.AUG.2020 23:38:56

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



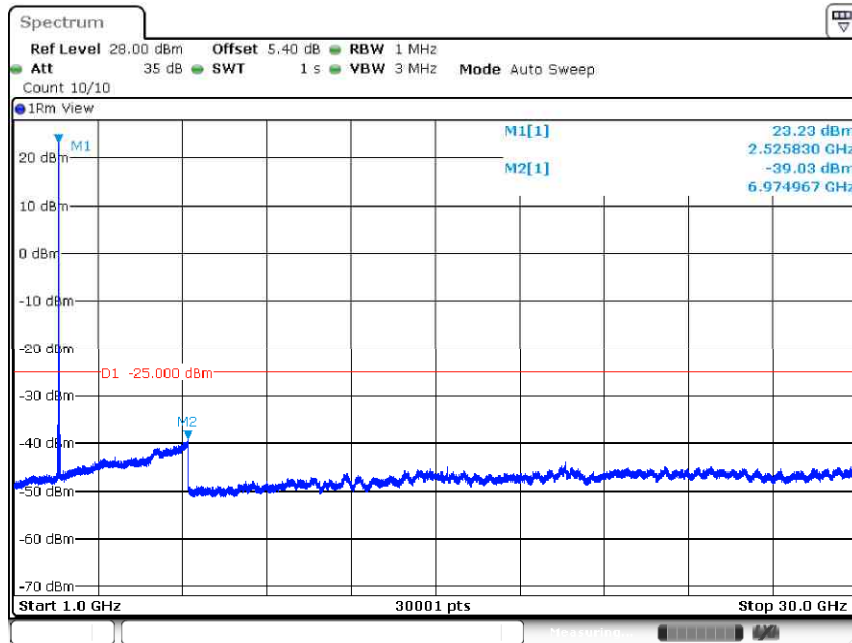
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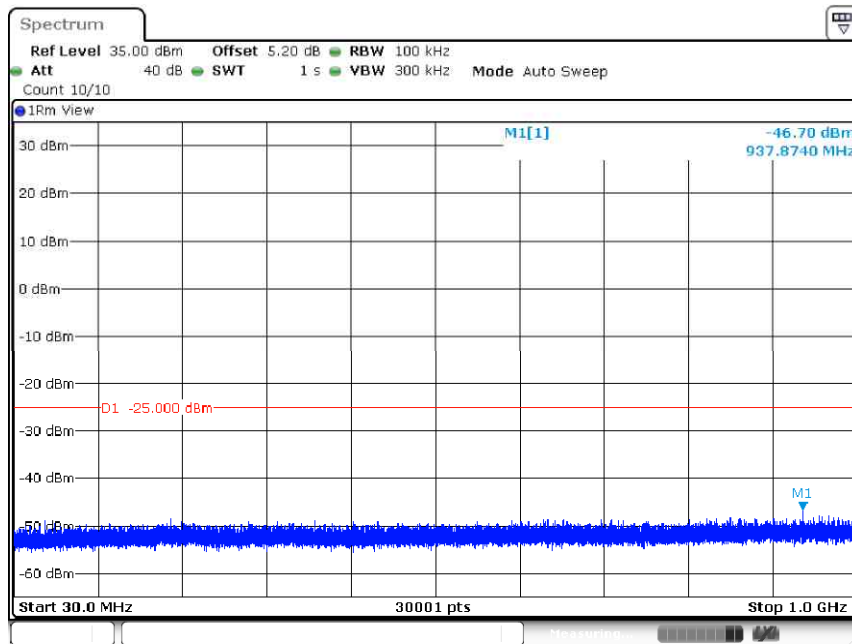


Band7-20MHz-QPSK-21100-1RB#0-Range2:1000~30000MHz



Date: 14.AUG.2020 23:38:07

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



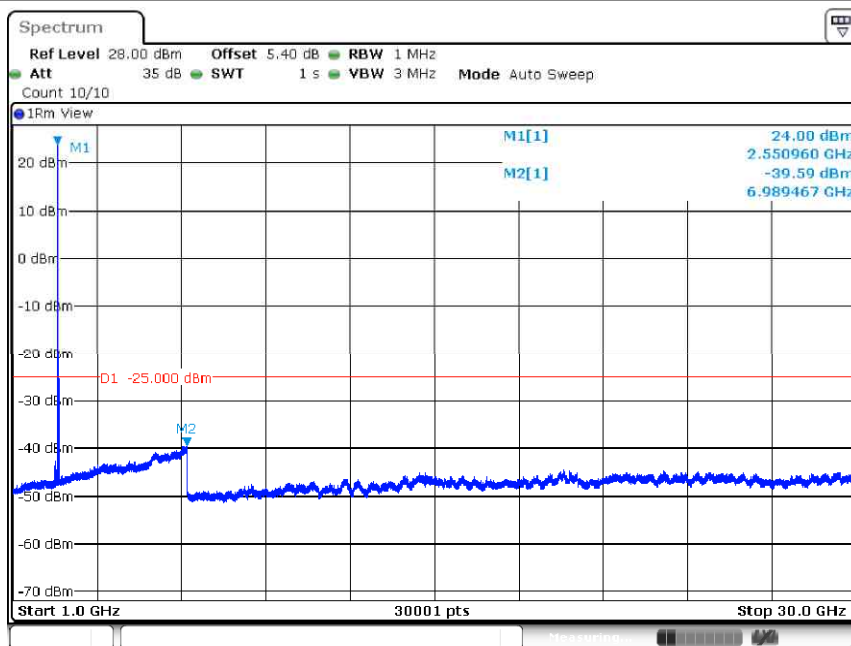
Date: 14.AUG.2020 23:39:02



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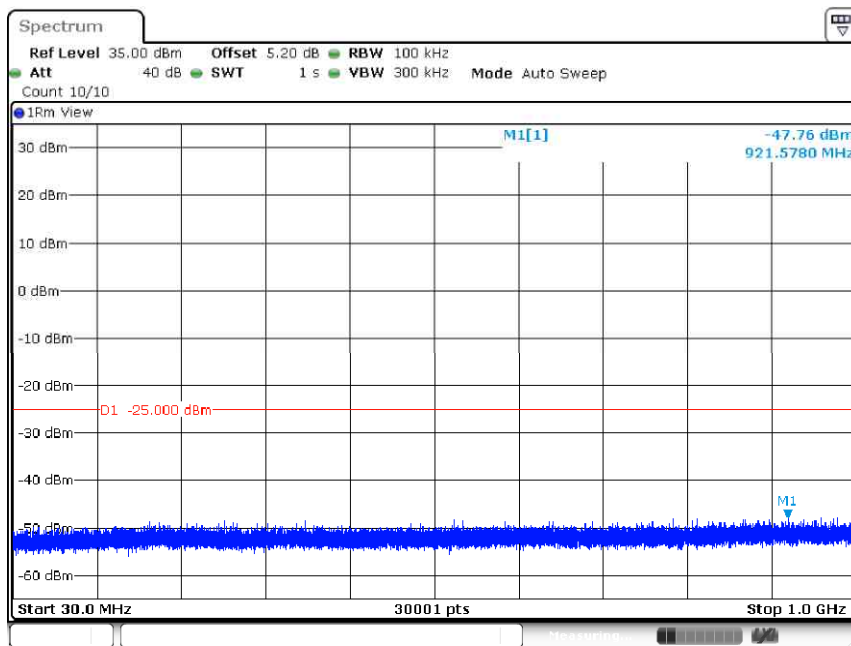


Band7-20MHz-QPSK-21350-1RB#0-Range2:1000~30000MHz



Date: 14.AUG.2020 23:39:19

Band7-20MHz-64QAM-20850-1RB#0-Range1:30~1000MHz



Date: 15.AUG.2020 02:29:11



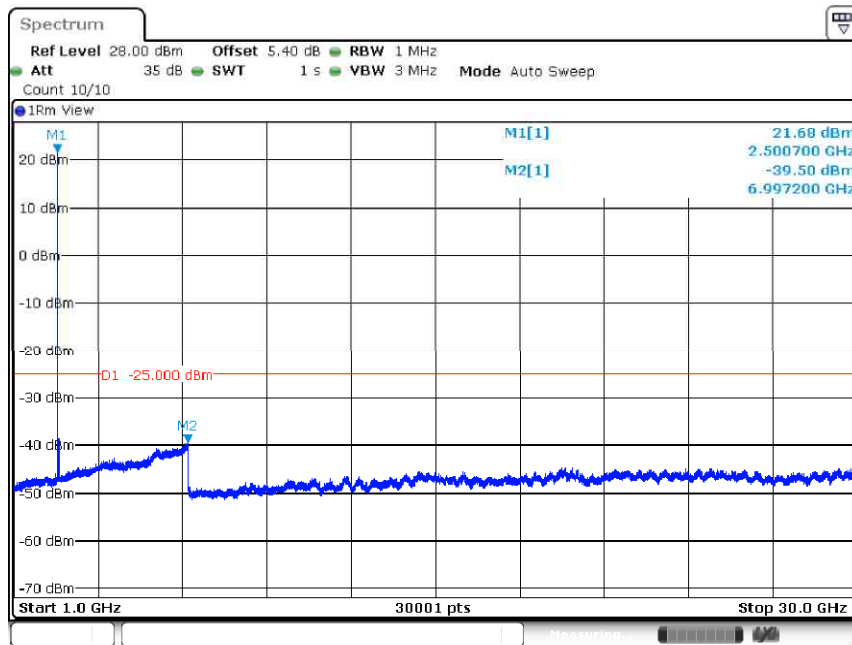
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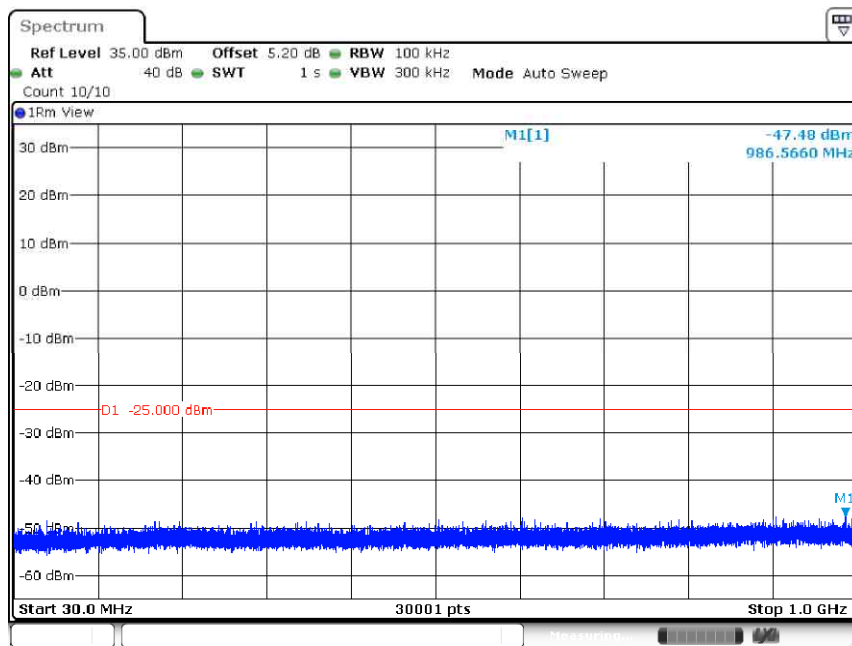


Band7-20MHz-64QAM-20850-1RB#0-Range2:1000~30000MHz



Date: 15 AUG 2020 02:29:27

Band7-20MHz-64QAM-21100-1RB#0-Range1:30~1000MHz



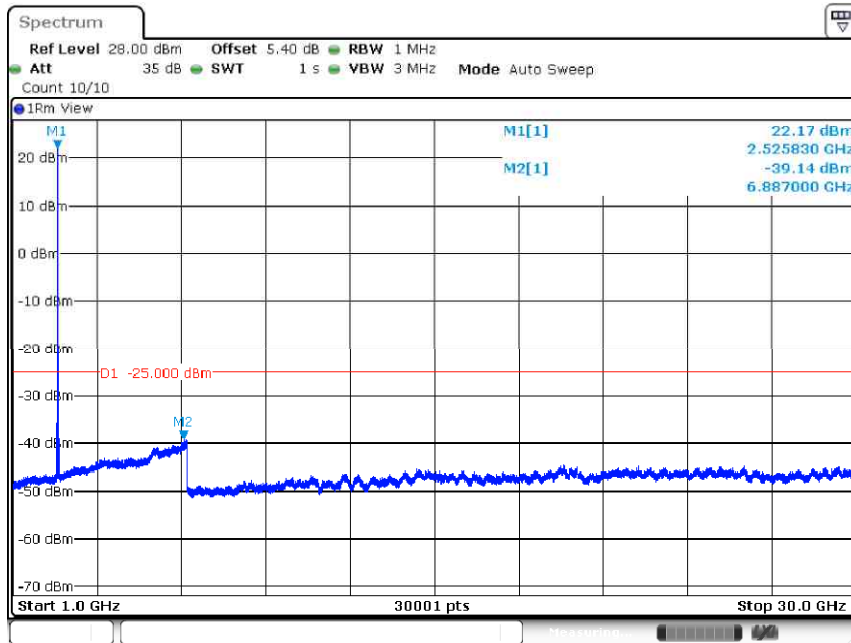
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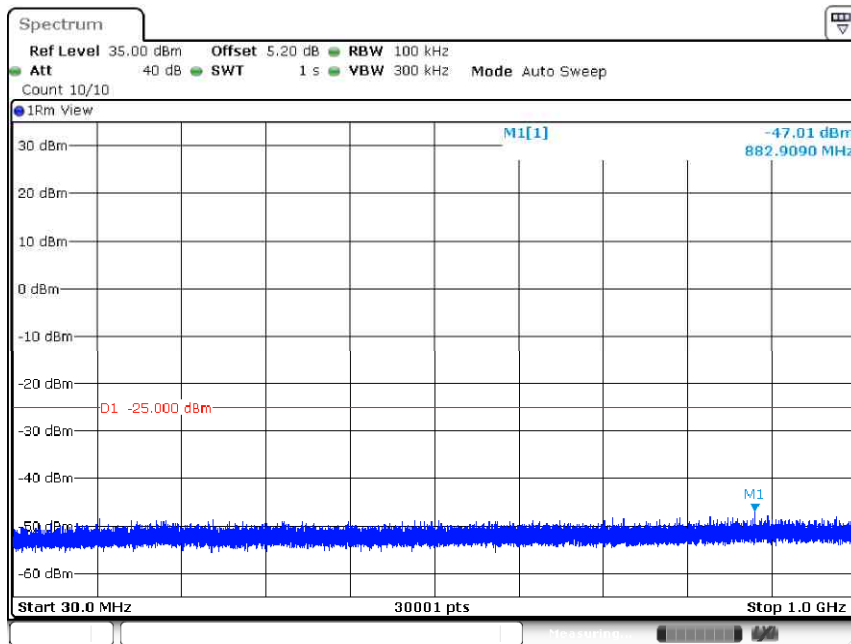


Band7-20MHz-64QAM-21100-1RB#0-Range2:1000~30000MHz



Date: 15 AUG 2020 02:30:03

Band7-20MHz-64QAM-21350-1RB#0-Range1:30~1000MHz



Date: 15 AUG 2020 02:30:22

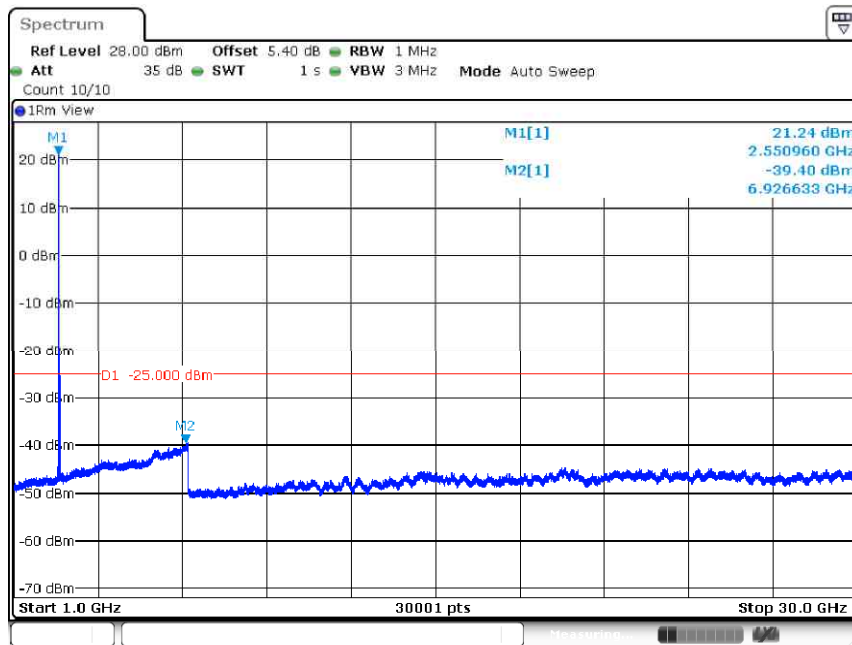


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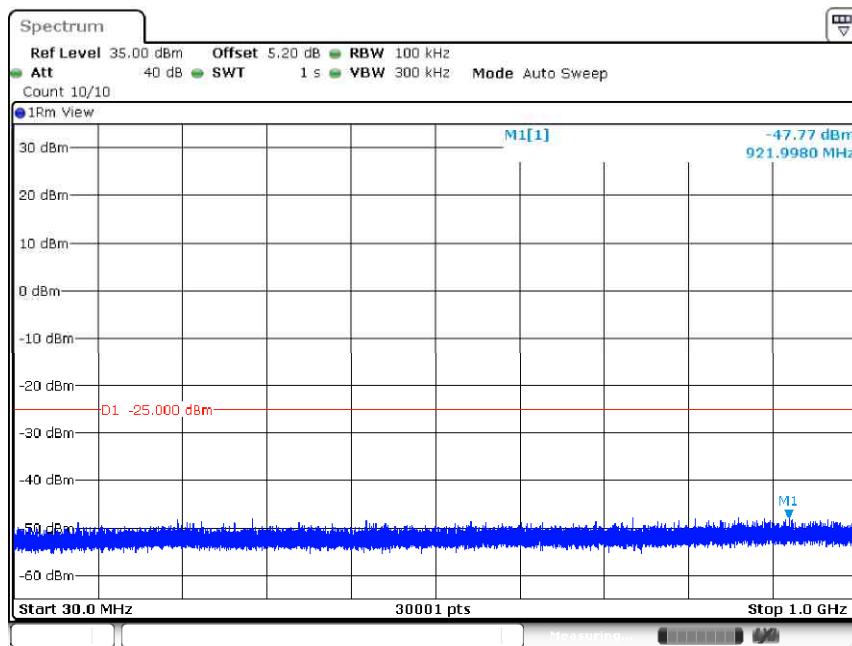


Band7-20MHz-64QAM-21350-1RB#0-Range2:1000~30000MHz



Date: 16.AUG.2020 02:30:39

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



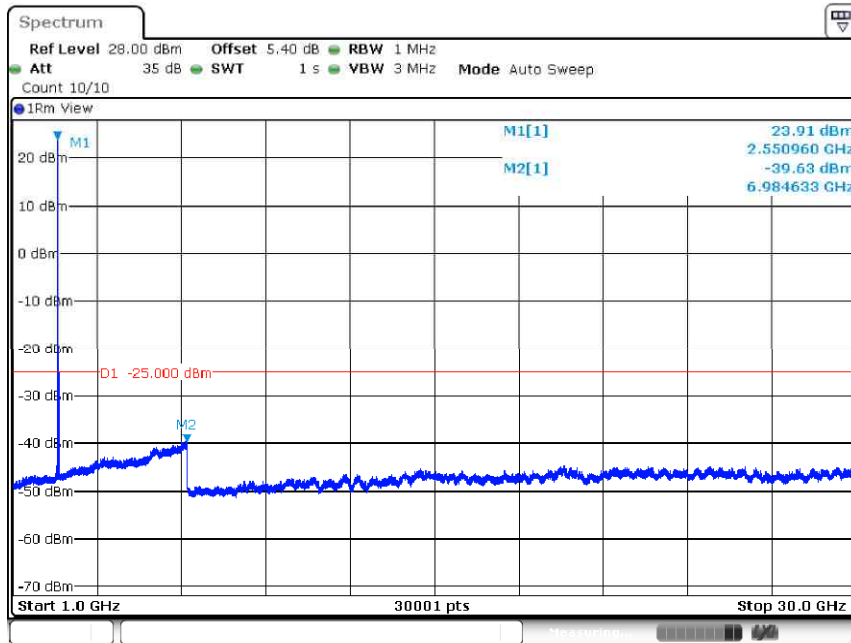
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Band7-20MHz-16QAM-21350-1RB#0-Range2:1000~30000MHz



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7. Field Strength of Spurious Radiation

7.1. Test Band = LTE Band 7

7.1.1. Test Mode = LTE/TM1 20MHz(Up Antenna)

7.1.2. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 49.6435 | -72.11 | -25.00 | 47.11 | Vertical |
| 110.0775 | -65.36 | -25.00 | 40.36 | Vertical |
| 456.2393 | -67.99 | -25.00 | 42.99 | Vertical |
| 5002.2801 | -57.41 | -25.00 | 32.41 | Vertical |
| 10549.5020 | -53.63 | -25.00 | 28.63 | Vertical |
| 17993.9998 | -42.66 | -25.00 | 17.66 | Vertical |
| 40.8645 | -64.66 | -25.00 | 39.66 | Horizontal |
| 83.1587 | -75.23 | -25.00 | 50.23 | Horizontal |
| 245.9813 | -69.52 | -25.00 | 44.52 | Horizontal |
| 5002.2801 | -59.65 | -25.00 | 34.65 | Horizontal |
| 10593.9038 | -54.55 | -25.00 | 29.55 | Horizontal |
| 16393.1357 | -46.06 | -25.00 | 21.06 | Horizontal |

7.1.3. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 53.7662 | -72.96 | -25.00 | 47.96 | Vertical |
| 112.5996 | -66.17 | -25.00 | 41.17 | Vertical |
| 590.0575 | -65.85 | -25.00 | 40.85 | Vertical |
| 5052.0821 | -57.27 | -25.00 | 32.27 | Vertical |
| 11130.3252 | -53.82 | -25.00 | 28.82 | Vertical |
| 17999.4000 | -43.28 | -25.00 | 18.28 | Vertical |
| 43.1927 | -64.73 | -25.00 | 39.73 | Horizontal |
| 109.4470 | -76.83 | -25.00 | 51.83 | Horizontal |
| 242.6346 | -68.68 | -25.00 | 43.68 | Horizontal |
| 5052.0821 | -57.38 | -25.00 | 32.38 | Horizontal |
| 9296.0518 | -55.05 | -25.00 | 30.05 | Horizontal |
| 16396.7359 | -46.05 | -25.00 | 21.05 | Horizontal |



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7.2. Test Mode =LTE/TM1 20MHz(Down Antenna)

7.2.1. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 116.4313 | -65.90 | -25.00 | 40.90 | Vertical |
| 624.6397 | -65.04 | -25.00 | 40.04 | Vertical |
| 1726.5453 | -45.48 | -25.00 | 20.48 | Vertical |
| 5002.2801 | -52.65 | -25.00 | 27.65 | Vertical |
| 14492.8597 | -49.94 | -25.00 | 24.94 | Vertical |
| 17997.5999 | -42.43 | -25.00 | 17.43 | Vertical |
| 46.4908 | -64.65 | -25.00 | 39.65 | Horizontal |
| 238.0754 | -69.28 | -25.00 | 44.28 | Horizontal |
| 1765.7532 | -45.50 | -25.00 | 20.50 | Horizontal |
| 5002.2801 | -57.17 | -25.00 | 32.17 | Horizontal |
| 12807.3923 | -53.51 | -25.00 | 28.51 | Horizontal |
| 17290.1716 | -47.25 | -25.00 | 22.25 | Horizontal |

7.2.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 107.8949 | -66.23 | -25.00 | 41.23 | Vertical |
| 589.1845 | -65.71 | -25.00 | 40.71 | Vertical |
| 1608.5217 | -46.04 | -25.00 | 21.04 | Vertical |
| 5052.0821 | -54.61 | -25.00 | 29.61 | Vertical |
| 14495.8598 | -49.92 | -25.00 | 24.92 | Vertical |
| 17993.9998 | -42.18 | -25.00 | 17.18 | Vertical |
| 43.2897 | -65.12 | -25.00 | 40.12 | Horizontal |
| 233.5647 | -68.41 | -25.00 | 43.41 | Horizontal |
| 1894.5789 | -41.95 | -25.00 | 16.95 | Horizontal |
| 5052.0821 | -55.43 | -25.00 | 30.43 | Horizontal |
| 12866.1946 | -52.44 | -25.00 | 27.44 | Horizontal |
| 16396.7359 | -46.27 | -25.00 | 21.27 | Horizontal |



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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 | 2.10 | 0.000837 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 100RB#0 | VN | NT | 1.30 | 0.000518 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 100RB#0 | VH | NT | 6.30 | 0.002510 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 100RB#0 | VL | NT | -0.70 | -0.000276 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 100RB#0 | VN | NT | -1.30 | -0.000513 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 100RB#0 | VH | NT | 0.50 | 0.000197 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 100RB#0 | VL | NT | -0.50 | -0.000195 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 100RB#0 | VN | NT | -1.00 | -0.000391 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 100RB#0 | VH | NT | 1.00 | 0.000391 | ±2.5 | PASS |
| Band7 | 20MHz | 64QAM | 20850 | 100RB#0 | VL | NT | 5.20 | 0.002072 | ±2.5 | PASS |
| Band7 | 20MHz | 64QAM | 20850 | 100RB#0 | VN | NT | 3.80 | 0.001514 | ±2.5 | PASS |
| Band7 | 20MHz | 64QAM | 20850 | 100RB#0 | VH | NT | 1.90 | 0.000757 | ±2.5 | PASS |
| Band7 | 20MHz | 64QAM | 21100 | 100RB#0 | VL | NT | -1.40 | -0.000552 | ±2.5 | PASS |
| Band7 | 20MHz | 64QAM | 21100 | 100RB#0 | VN | NT | -1.40 | -0.000552 | ±2.5 | PASS |
| Band7 | 20MHz | 64QAM | 21100 | 100RB#0 | VH | NT | -1.10 | -0.000434 | ±2.5 | PASS |
| Band7 | 20MHz | 64QAM | 21350 | 100RB#0 | VL | NT | 0.40 | 0.000156 | ±2.5 | PASS |
| Band7 | 20MHz | 64QAM | 21350 | 100RB#0 | VN | NT | 2.70 | 0.001055 | ±2.5 | PASS |
| Band7 | 20MHz | 64QAM | 21350 | 100RB#0 | VH | NT | 0.90 | 0.000352 | ±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 | 2.70 | 0.001076 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | VH | NT | 1.90 | 0.000757 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | VL | NT | -2.50 | -0.000986 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | VN | NT | -1.70 | -0.000671 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | VH | NT | -4.10 | -0.001617 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | VL | NT | 1.60 | 0.000625 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | VN | NT | 2.30 | 0.000898 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | VH | NT | -0.80 | -0.000313 | ±2.5 | PASS |

8.2. Frequency Vs Temperature

| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
|------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|



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| | | | | | | | | | | |
|-------|-------|-------|-------|---------|----|-----|-------|-----------|------|------|
| Band7 | 20MHz | QPSK | 20850 | 100RB#0 | NV | -30 | 2.80 | 0.001116 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 100RB#0 | NV | -20 | 3.00 | 0.001195 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 100RB#0 | NV | 0 | 1.80 | 0.000717 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 100RB#0 | NV | 10 | 4.60 | 0.001833 | ±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 | 0.90 | 0.000359 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 100RB#0 | NV | 40 | 4.30 | 0.001713 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 100RB#0 | NV | 50 | 3.90 | 0.001554 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 100RB#0 | NV | -30 | -3.00 | -0.001183 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 100RB#0 | NV | -20 | -1.30 | -0.000513 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 100RB#0 | NV | 0 | -3.10 | -0.001223 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 100RB#0 | NV | 10 | -2.90 | -0.001144 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 100RB#0 | NV | 20 | -1.10 | -0.000434 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 100RB#0 | NV | 30 | -0.30 | -0.000118 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 100RB#0 | NV | 40 | -3.80 | -0.001499 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 100RB#0 | NV | 50 | -3.10 | -0.001223 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 100RB#0 | NV | -30 | 3.30 | 0.001289 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 100RB#0 | NV | -20 | 0.00 | 0.000000 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 100RB#0 | NV | 0 | 1.10 | 0.000430 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 100RB#0 | NV | 10 | -0.60 | -0.000234 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 100RB#0 | NV | 20 | 2.60 | 0.001016 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 100RB#0 | NV | 30 | 2.50 | 0.000977 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 100RB#0 | NV | 40 | 1.10 | 0.000430 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 100RB#0 | NV | 50 | 1.60 | 0.000625 | ±2.5 | PASS |
| Band7 | 20MHz | 64QAM | 20850 | 100RB#0 | NV | -30 | 2.60 | 0.001036 | ±2.5 | PASS |
| Band7 | 20MHz | 64QAM | 20850 | 100RB#0 | NV | -20 | 6.10 | 0.002430 | ±2.5 | PASS |
| Band7 | 20MHz | 64QAM | 20850 | 100RB#0 | NV | 0 | 1.30 | 0.000518 | ±2.5 | PASS |
| Band7 | 20MHz | 64QAM | 20850 | 100RB#0 | NV | 10 | 1.70 | 0.000677 | ±2.5 | PASS |
| Band7 | 20MHz | 64QAM | 20850 | 100RB#0 | NV | 20 | 4.10 | 0.001633 | ±2.5 | PASS |
| Band7 | 20MHz | 64QAM | 20850 | 100RB#0 | NV | 30 | 1.70 | 0.000677 | ±2.5 | PASS |
| Band7 | 20MHz | 64QAM | 20850 | 100RB#0 | NV | 40 | 1.00 | 0.000398 | ±2.5 | PASS |
| Band7 | 20MHz | 64QAM | 20850 | 100RB#0 | NV | 50 | 2.50 | 0.000996 | ±2.5 | PASS |
| Band7 | 20MHz | 64QAM | 21100 | 100RB#0 | NV | -30 | -4.10 | -0.001617 | ±2.5 | PASS |
| Band7 | 20MHz | 64QAM | 21100 | 100RB#0 | NV | -20 | 0.20 | 0.000079 | ±2.5 | PASS |
| Band7 | 20MHz | 64QAM | 21100 | 100RB#0 | NV | 0 | 1.40 | 0.000552 | ±2.5 | PASS |
| Band7 | 20MHz | 64QAM | 21100 | 100RB#0 | NV | 10 | -1.60 | -0.000631 | ±2.5 | PASS |
| Band7 | 20MHz | 64QAM | 21100 | 100RB#0 | NV | 20 | -2.30 | -0.000907 | ±2.5 | PASS |
| Band7 | 20MHz | 64QAM | 21100 | 100RB#0 | NV | 30 | 0.30 | 0.000118 | ±2.5 | PASS |



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| | | | | | | | | | | |
|-------|-------|-------|-------|---------|----|-----|-------|-----------|------|------|
| Band7 | 20MHz | 64QAM | 21100 | 100RB#0 | NV | 40 | -1.10 | -0.000434 | ±2.5 | PASS |
| Band7 | 20MHz | 64QAM | 21100 | 100RB#0 | NV | 50 | -0.10 | -0.000039 | ±2.5 | PASS |
| Band7 | 20MHz | 64QAM | 21350 | 100RB#0 | NV | -30 | 2.00 | 0.000781 | ±2.5 | PASS |
| Band7 | 20MHz | 64QAM | 21350 | 100RB#0 | NV | -20 | 2.70 | 0.001055 | ±2.5 | PASS |
| Band7 | 20MHz | 64QAM | 21350 | 100RB#0 | NV | 0 | 2.80 | 0.001094 | ±2.5 | PASS |
| Band7 | 20MHz | 64QAM | 21350 | 100RB#0 | NV | 10 | 3.10 | 0.001211 | ±2.5 | PASS |
| Band7 | 20MHz | 64QAM | 21350 | 100RB#0 | NV | 20 | 3.80 | 0.001484 | ±2.5 | PASS |
| Band7 | 20MHz | 64QAM | 21350 | 100RB#0 | NV | 30 | 1.10 | 0.000430 | ±2.5 | PASS |
| Band7 | 20MHz | 64QAM | 21350 | 100RB#0 | NV | 40 | 1.20 | 0.000469 | ±2.5 | PASS |
| Band7 | 20MHz | 64QAM | 21350 | 100RB#0 | NV | 50 | 0.70 | 0.000273 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | NV | -30 | 0.40 | 0.000159 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | NV | -20 | 0.80 | 0.000319 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | NV | 0 | 4.30 | 0.001713 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | NV | 10 | 3.80 | 0.001514 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | NV | 20 | 2.60 | 0.001036 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | NV | 30 | 3.90 | 0.001554 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | NV | 40 | 1.80 | 0.000717 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | NV | 50 | 3.70 | 0.001474 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | NV | -30 | 0.10 | 0.000039 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | NV | -20 | -4.20 | -0.001657 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | NV | 0 | -1.20 | -0.000473 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | NV | 10 | -0.20 | -0.000079 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | NV | 20 | -2.70 | -0.001065 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | NV | 30 | -3.50 | -0.001381 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | NV | 40 | -2.30 | -0.000907 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | NV | 50 | -2.80 | -0.001105 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | NV | -30 | -0.70 | -0.000273 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | NV | -20 | 0.70 | 0.000273 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | NV | 0 | 1.80 | 0.000703 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | NV | 10 | -1.30 | -0.000508 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | NV | 20 | -1.20 | -0.000469 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | NV | 30 | -0.10 | -0.000039 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | NV | 40 | 2.20 | 0.000859 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | NV | 50 | 1.30 | 0.000508 | ±2.5 | PASS |



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