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Appendix B

E-UTRA Band 7



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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn

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1. Effective (Isotropic) Radiated Power

1.1. Test Result

| Б | D 1 14 | M 11 c | 0, , | RB | Conducted | EIRP | Limit | \/ E (|
|-------|-----------|------------|---------|---------------|------------|-------|-------|---------|
| Band | Bandwidth | Modulation | Channel | Configuration | Power(dBm) | (dBm) | (dBm) | Verdict |
| Band7 | 5MHz | QPSK | 20775 | 1RB#0 | 22.50 | 22.60 | 33.00 | PASS |
| Band7 | 5MHz | QPSK | 20775 | 1RB#12 | 22.49 | 22.59 | 33.00 | PASS |
| Band7 | 5MHz | QPSK | 20775 | 1RB#24 | 22.14 | 22.24 | 33.00 | PASS |
| Band7 | 5MHz | QPSK | 20775 | 12RB#0 | 21.58 | 21.68 | 33.00 | PASS |
| Band7 | 5MHz | QPSK | 20775 | 12RB#6 | 21.63 | 21.73 | 33.00 | PASS |
| Band7 | 5MHz | QPSK | 20775 | 12RB#13 | 21.38 | 21.48 | 33.00 | PASS |
| Band7 | 5MHz | QPSK | 20775 | 25RB#0 | 21.54 | 21.64 | 33.00 | PASS |
| Band7 | 5MHz | QPSK | 21100 | 1RB#0 | 22.11 | 22.21 | 33.00 | PASS |
| Band7 | 5MHz | QPSK | 21100 | 1RB#12 | 22.13 | 22.23 | 33.00 | PASS |
| Band7 | 5MHz | QPSK | 21100 | 1RB#24 | 22.05 | 22.15 | 33.00 | PASS |
| Band7 | 5MHz | QPSK | 21100 | 12RB#0 | 21.15 | 21.25 | 33.00 | PASS |
| Band7 | 5MHz | QPSK | 21100 | 12RB#6 | 21.31 | 21.41 | 33.00 | PASS |
| Band7 | 5MHz | QPSK | 21100 | 12RB#13 | 21.23 | 21.33 | 33.00 | PASS |
| Band7 | 5MHz | QPSK | 21100 | 25RB#0 | 21.12 | 21.22 | 33.00 | PASS |
| Band7 | 5MHz | QPSK | 21425 | 1RB#0 | 22.19 | 22.29 | 33.00 | PASS |
| Band7 | 5MHz | QPSK | 21425 | 1RB#12 | 22.31 | 22.41 | 33.00 | PASS |
| Band7 | 5MHz | QPSK | 21425 | 1RB#24 | 22.34 | 22.44 | 33.00 | PASS |
| Band7 | 5MHz | QPSK | 21425 | 12RB#0 | 21.36 | 21.46 | 33.00 | PASS |
| Band7 | 5MHz | QPSK | 21425 | 12RB#6 | 21.40 | 21.50 | 33.00 | PASS |
| Band7 | 5MHz | QPSK | 21425 | 12RB#13 | 21.41 | 21.51 | 33.00 | PASS |
| Band7 | 5MHz | QPSK | 21425 | 25RB#0 | 21.42 | 21.52 | 33.00 | PASS |
| Band7 | 5MHz | 16QAM | 20775 | 1RB#0 | 22.09 | 22.19 | 33.00 | PASS |
| Band7 | 5MHz | 16QAM | 20775 | 1RB#12 | 21.99 | 22.09 | 33.00 | PASS |
| Band7 | 5MHz | 16QAM | 20775 | 1RB#24 | 21.49 | 21.59 | 33.00 | PASS |
| Band7 | 5MHz | 16QAM | 20775 | 12RB#0 | 20.60 | 20.70 | 33.00 | PASS |
| Band7 | 5MHz | 16QAM | 20775 | 12RB#6 | 20.66 | 20.76 | 33.00 | PASS |
| Band7 | 5MHz | 16QAM | 20775 | 12RB#13 | 20.54 | 20.64 | 33.00 | PASS |
| Band7 | 5MHz | 16QAM | 20775 | 25RB#0 | 20.61 | 20.71 | 33.00 | PASS |
| Band7 | 5MHz | 16QAM | 21100 | 1RB#0 | 21.30 | 21.40 | 33.00 | PASS |
| Band7 | 5MHz | 16QAM | 21100 | 1RB#12 | 21.44 | 21.54 | 33.00 | PASS |
| Band7 | 5MHz | 16QAM | 21100 | 1RB#24 | 21.89 | 21.99 | 33.00 | PASS |
| Band7 | 5MHz | 16QAM | 21100 | 12RB#0 | 20.26 | 20.36 | 33.00 | PASS |
| Band7 | 5MHz | 16QAM | 21100 | 12RB#6 | 20.32 | 20.42 | 33.00 | PASS |
| Band7 | 5MHz | 16QAM | 21100 | 12RB#13 | 20.27 | 20.37 | 33.00 | PASS |
| Band7 | 5MHz | 16QAM | 21100 | 25RB#0 | 20.18 | 20.28 | 33.00 | PASS |
| Band7 | 5MHz | 16QAM | 21425 | 1RB#0 | 21.61 | 21.71 | 33.00 | PASS |
| Band7 | 5MHz | 16QAM | 21425 | 1RB#12 | 21.81 | 21.91 | 33.00 | PASS |
| Band7 | 5MHz | 16QAM | 21425 | 1RB#24 | 21.90 | 22.00 | 33.00 | PASS |



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| Don d7 | ENALL- | 160AM | 24.425 | 12DD#0 | 20.40 | 20.50 | 22.00 | DACC |
|----------------|----------------|----------------|----------------|--------------------|----------------|----------------|----------------|--------------|
| Band7 | 5MHz | 16QAM | 21425 | 12RB#0 | 20.49 | 20.59 | 33.00 | PASS |
| Band7 | 5MHz | 16QAM | 21425 | 12RB#6 | 20.64 | 20.74 | 33.00 | PASS |
| Band7 | 5MHz | 16QAM | 21425 | 12RB#13 | 20.53 | 20.63 | 33.00 | PASS |
| Band7 | 5MHz | 16QAM | 21425 | 25RB#0 | 20.51 | 20.61 | 33.00 | PASS |
| Band7 | 10MHz | QPSK | 20800 | 1RB#0 | 22.64 | 22.74 | 33.00 | PASS |
| Band7 | 10MHz | QPSK | 20800 | 1RB#24 | 22.41 | 22.51 | 33.00 | PASS |
| Band7 | 10MHz | QPSK | 20800 | 1RB#49 | 22.20 | 22.30 | 33.00 | PASS |
| Band7 | 10MHz | QPSK | 20800 | 25RB#0 | 21.53 | 21.63 | 33.00 | PASS |
| Band7 | 10MHz | QPSK | 20800 | 25RB#12 | 21.55 | 21.65 | 33.00 | PASS |
| Band7 | 10MHz | QPSK | 20800 | 25RB#25 | 21.32 | 21.42 | 33.00 | PASS |
| Band7 | 10MHz | QPSK | 20800 | 50RB#0 | 21.60 | 21.70 | 33.00 | PASS |
| Band7 | 10MHz | QPSK | 21100 | 1RB#0 | 22.22 | 22.32 | 33.00 | PASS |
| Band7 | 10MHz | QPSK | 21100 | 1RB#24 | 22.20 | 22.30 | 33.00 | PASS |
| Band7 | 10MHz | QPSK | 21100 | 1RB#49 | 22.19 | 22.29 | 33.00 | PASS |
| Band7 | 10MHz | QPSK | 21100 | 25RB#0 | 21.30 | 21.40 | 33.00 | PASS |
| Band7 | 10MHz | QPSK | 21100 | 25RB#12 | 21.27 | 21.37 | 33.00 | PASS |
| Band7 | 10MHz | QPSK | 21100 | 25RB#25 | 21.28 | 21.38 | 33.00 | PASS |
| Band7 | 10MHz | QPSK | 21100 | 50RB#0 | 21.30 | 21.40 | 33.00 | PASS |
| Band7 | 10MHz | QPSK | 21400 | 1RB#0 | 22.32 | 22.42 | 33.00 | PASS |
| Band7 | 10MHz | QPSK | 21400 | 1RB#24 | 22.31 | 22.41 | 33.00 | PASS |
| Band7 | 10MHz | QPSK | 21400 | 1RB#49 | 22.34 | 22.44 | 33.00 | PASS |
| Band7 | 10MHz | QPSK | 21400 | 25RB#0 | 21.43 | 21.53 | 33.00 | PASS |
| Band7 | 10MHz | QPSK | 21400 | 25RB#12 | 21.50 | 21.60 | 33.00 | PASS |
| Band7 | 10MHz | QPSK | 21400 | 25RB#25 | 21.41 | 21.51 | 33.00 | PASS |
| Band7 | 10MHz 10MHz | QPSK 16QAM | 21400 20800 | 50RB#0 1RB#0 | 21.51 21.82 | 21.61 21.92 | 33.00 33.00 | PASS PASS |
| Band7 | | | | | | 22.18 | | |
| Band7 Band7 | 10MHz 10MHz | 16QAM 16QAM | 20800 20800 | 1RB#24 1RB#49 | 22.08 21.84 | 21.94 | 33.00 33.00 | PASS PASS |
| Band7 | 10MHz | 16QAM | 20800 | 25RB#0 | 20.70 | 20.80 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 25RB#12 | 20.70 | 20.67 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 25RB#12 25RB#25 | 20.54 | 20.64 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 50RB#0 | 20.35 | 20.45 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 1RB#0 | 21.98 | 22.08 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 1RB#24 | 21.42 | 21.52 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 1RB#49 | 21.84 | 21.94 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 25RB#0 | 20.30 | 20.40 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 25RB#12 | 20.32 | 20.42 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 25RB#25 | 20.31 | 20.42 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 50RB#0 | 20.31 | 20.41 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 1RB#0 | 22.03 | 22.13 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 1RB#24 | 21.49 | 21.59 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 1RB#49 | 21.56 | 21.66 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 25RB#0 | 20.41 | 20.51 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 25RB#12 | 20.56 | 20.66 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 25RB#25 | 20.50 | 20.60 | 33.00 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 50RB#0 | 20.49 | 20.59 | 33.00 | PASS |
| Band7 | 15MHz | QPSK | 20825 | 1RB#0 | 22.28 | 22.38 | 33.00 | PASS |
| Dana | I OIVII IZ | Q1 O11 | 20020 | וועטπט | 22.20 | 22.00 | 55.00 | 17.00 |



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| | 45141 | 0.001/ | 22225 | 455,400 | 22.42 | 00.50 | 00.00 | D4.00 |
|----------------|----------------|----------------|----------------|-------------------|----------------|-------|----------------|--------------|
| Band7 | 15MHz | QPSK | 20825 | 1RB#38 | 22.40 | 22.50 | 33.00 | PASS |
| Band7 | 15MHz | QPSK | 20825 | 1RB#74 | 22.11 | 22.21 | 33.00 | PASS |
| Band7 | 15MHz | QPSK | 20825 | 36RB#0 | 21.49 | 21.59 | 33.00 | PASS |
| Band7 | 15MHz | QPSK | 20825 | 36RB#18 | 21.43 | 21.53 | 33.00 | PASS |
| Band7 | 15MHz | QPSK | 20825 | 36RB#39 | 21.26 | 21.36 | 33.00 | PASS |
| Band7 | 15MHz | QPSK | 20825 | 75RB#0 | 21.43 | 21.53 | 33.00 | PASS |
| Band7 | 15MHz | QPSK | 21100 | 1RB#0 | 22.14 | 22.24 | 33.00 | PASS |
| Band7 | 15MHz | QPSK | 21100 | 1RB#38 | 22.18 | 22.28 | 33.00 | PASS |
| Band7 | 15MHz | QPSK | 21100 | 1RB#74 | 22.13 | 22.23 | 33.00 | PASS |
| Band7 | 15MHz | QPSK | 21100 | 36RB#0 | 21.19 | 21.29 | 33.00 | PASS |
| Band7 | 15MHz | QPSK | 21100 | 36RB#18 | 21.24 | 21.34 | 33.00 | PASS |
| Band7 | 15MHz | QPSK | 21100 | 36RB#39 | 21.26 | 21.36 | 33.00 | PASS |
| Band7 | 15MHz | QPSK | 21100 | 75RB#0 | 21.17 | 21.27 | 33.00 | PASS |
| Band7 | 15MHz | QPSK | 21375 | 1RB#0 | 22.19 | 22.29 | 33.00 | PASS |
| Band7 | 15MHz | QPSK | 21375 | 1RB#38 | 22.21 | 22.31 | 33.00 | PASS |
| Band7 | 15MHz | QPSK | 21375 | 1RB#74 | 22.37 | 22.47 | 33.00 | PASS |
| Band7 | 15MHz | QPSK | 21375 | 36RB#0 | 21.36 | 21.46 | 33.00 | PASS |
| Band7 | 15MHz | QPSK | 21375 | 36RB#18 | 21.34 | 21.44 | 33.00 | PASS |
| Band7 | 15MHz | QPSK | 21375 | 36RB#39 | 21.37 | 21.47 | 33.00 | PASS |
| Band7 | 15MHz | QPSK | 21375 | 75RB#0 | 21.45 | 21.55 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 1RB#0 | 21.58 | 21.68 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 1RB#38 | 21.40 | 21.50 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 1RB#74 | 21.40 | 21.50 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 36RB#0 | 20.45 | 20.55 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 36RB#18 | 20.44 | 20.54 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 36RB#39 | 20.29 | 20.39 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 75RB#0 | 20.41 | 20.51 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 1RB#0 | 21.19 | 21.29 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 1RB#38 | 21.20 | 21.30 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 1RB#74 | 21.24 | 21.34 | 33.00 | PASS |
| Band7 Band7 | 15MHz 15MHz | 16QAM 16QAM | 21100 21100 | 36RB#0 36RB#18 | 20.23 20.28 | 20.33 | 33.00 33.00 | PASS PASS |
| Band7 | 15MHz | 16QAM | 21100 | 36RB#39 | 20.28 | 20.38 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 75RB#0 | 20.32 | 20.38 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 1RB#0 | 21.45 | 21.55 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 1RB#38 | 21.83 | 21.93 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 1RB#74 | 21.48 | 21.58 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 36RB#0 | 20.35 | 20.45 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 36RB#18 | 20.46 | 20.56 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 36RB#39 | 20.45 | 20.55 | 33.00 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 75RB#0 | 20.53 | 20.63 | 33.00 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 1RB#0 | 22.30 | 22.40 | 33.00 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 1RB#49 | 22.34 | 22.44 | 33.00 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 1RB#99 | 21.92 | 22.02 | 33.00 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 50RB#0 | 21.43 | 21.53 | 33.00 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 50RB#25 | 21.48 | 21.58 | 33.00 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 50RB#50 | 21.39 | 21.49 | 33.00 | PASS |
| Dariar | ZUIVII IZ | Qi Oit | 20000 | υσιτυπου | 21.00 | Z1.70 | 55.00 | 17.00 |



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| Band7 20MHz QPSK 20850 100RB#0 21.42 21.52 33.00 Band7 20MHz QPSK 21100 1RB#0 21.93 22.03 33.00 Band7 20MHz QPSK 21100 1RB#49 22.36 22.46 33.00 Band7 20MHz QPSK 21100 1RB#99 21.75 21.85 33.00 Band7 20MHz QPSK 21100 50RB#0 21.26 21.36 33.00 Band7 20MHz QPSK 21100 50RB#25 21.29 21.39 33.00 Band7 20MHz QPSK 21100 50RB#50 21.14 21.24 33.00 Band7 20MHz QPSK 21100 100RB#0 21.29 21.39 33.00 Band7 20MHz QPSK 21350 1RB#0 21.94 22.04 33.00 Band7 20MHz QPSK 21350 1RB#0 21.94 22.04 33.00 | PASS PASS PASS PASS PASS PASS PASS PASS |
|--|---|
| Band7 20MHz QPSK 21100 1RB#49 22.36 22.46 33.00 Band7 20MHz QPSK 21100 1RB#99 21.75 21.85 33.00 Band7 20MHz QPSK 21100 50RB#0 21.26 21.36 33.00 Band7 20MHz QPSK 21100 50RB#25 21.29 21.39 33.00 Band7 20MHz QPSK 21100 50RB#50 21.14 21.24 33.00 Band7 20MHz QPSK 21100 100RB#0 21.29 21.39 33.00 Band7 20MHz QPSK 21350 1RB#0 21.94 22.04 33.00 | PASS PASS PASS PASS PASS PASS |
| Band7 20MHz QPSK 21100 1RB#99 21.75 21.85 33.00 Band7 20MHz QPSK 21100 50RB#0 21.26 21.36 33.00 Band7 20MHz QPSK 21100 50RB#25 21.29 21.39 33.00 Band7 20MHz QPSK 21100 50RB#50 21.14 21.24 33.00 Band7 20MHz QPSK 21100 100RB#0 21.29 21.39 33.00 Band7 20MHz QPSK 21350 1RB#0 21.94 22.04 33.00 | PASS PASS PASS PASS PASS |
| Band7 20MHz QPSK 21100 50RB#0 21.26 21.36 33.00 Band7 20MHz QPSK 21100 50RB#25 21.29 21.39 33.00 Band7 20MHz QPSK 21100 50RB#50 21.14 21.24 33.00 Band7 20MHz QPSK 21100 100RB#0 21.29 21.39 33.00 Band7 20MHz QPSK 21350 1RB#0 21.94 22.04 33.00 | PASS PASS PASS |
| Band7 20MHz QPSK 21100 50RB#25 21.29 21.39 33.00 Band7 20MHz QPSK 21100 50RB#50 21.14 21.24 33.00 Band7 20MHz QPSK 21100 100RB#0 21.29 21.39 33.00 Band7 20MHz QPSK 21350 1RB#0 21.94 22.04 33.00 | PASS PASS PASS |
| Band7 20MHz QPSK 21100 50RB#50 21.14 21.24 33.00 Band7 20MHz QPSK 21100 100RB#0 21.29 21.39 33.00 Band7 20MHz QPSK 21350 1RB#0 21.94 22.04 33.00 | PASS PASS |
| Band7 20MHz QPSK 21100 100RB#0 21.29 21.39 33.00 Band7 20MHz QPSK 21350 1RB#0 21.94 22.04 33.00 | PASS |
| Band7 20MHz QPSK 21350 1RB#0 21.94 22.04 33.00 | |
| | PASS |
| Dond 7 20MHz OPCK 21250 10DH10 2010 2010 2010 | |
| Band7 20MHz QPSK 21350 1RB#49 22.40 22.50 33.00 | PASS |
| Band7 20MHz QPSK 21350 1RB#99 22.02 22.12 33.00 | PASS |
| Band7 20MHz QPSK 21350 50RB#0 21.46 21.56 33.00 | PASS |
| Band7 20MHz QPSK 21350 50RB#25 21.48 21.58 33.00 | PASS |
| Band7 20MHz QPSK 21350 50RB#50 21.23 21.33 33.00 | PASS |
| Band7 20MHz QPSK 21350 100RB#0 21.25 21.35 33.00 | PASS |
| Band7 20MHz 16QAM 20850 1RB#0 21.54 21.64 33.00 | PASS |
| Band7 20MHz 16QAM 20850 1RB#49 21.37 21.47 33.00 | PASS |
| Band7 20MHz 16QAM 20850 1RB#99 21.06 21.16 33.00 | PASS |
| Band7 20MHz 16QAM 20850 50RB#0 20.45 20.55 33.00 | PASS |
| Band7 20MHz 16QAM 20850 50RB#25 20.43 20.53 33.00 | PASS |
| Band7 20MHz 16QAM 20850 50RB#50 20.36 20.46 33.00 | PASS |
| Band7 20MHz 16QAM 20850 100RB#0 20.48 20.58 33.00 | PASS |
| Band7 20MHz 16QAM 21100 1RB#0 21.21 21.31 33.00 | PASS |
| Band7 20MHz 16QAM 21100 1RB#49 21.85 21.95 33.00 | PASS |
| Band7 20MHz 16QAM 21100 1RB#99 21.11 21.21 33.00 | PASS |
| Band7 20MHz 16QAM 21100 50RB#0 20.34 20.44 33.00 | PASS |
| Band7 20MHz 16QAM 21100 50RB#25 20.35 20.45 33.00 | PASS |
| Band7 20MHz 16QAM 21100 50RB#50 20.32 20.42 33.00 | PASS |
| Band7 20MHz 16QAM 21100 100RB#0 20.38 20.48 33.00 | PASS |
| Band7 20MHz 16QAM 21350 1RB#0 21.31 21.41 33.00 | PASS |
| Band7 20MHz 16QAM 21350 1RB#49 21.48 21.58 33.00 | PASS |
| Band7 20MHz 16QAM 21350 1RB#99 21.36 21.46 33.00 | PASS |
| Band7 20MHz 16QAM 21350 50RB#0 20.39 20.49 33.00 | PASS |
| Band7 20MHz 16QAM 21350 50RB#25 20.49 20.59 33.00 | PASS |
| Band7 20MHz 16QAM 21350 50RB#50 20.36 20.46 33.00 | PASS |
| Band7 20MHz 16QAM 21350 100RB#0 20.37 20.47 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]



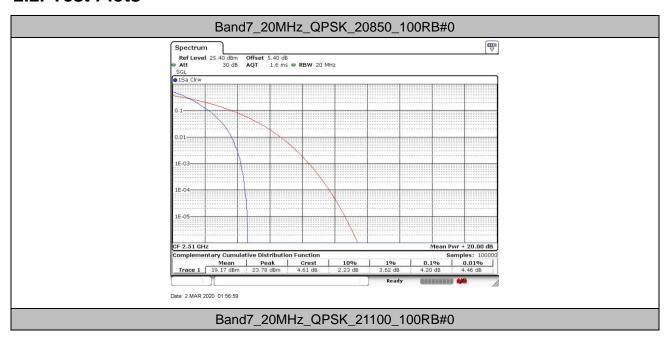
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2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|-------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band7 | 20MHz | QPSK | 20850 | 100RB#0 | 4.20 | 13.00 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 100RB#0 | 4.55 | 13.00 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 100RB#0 | 4.29 | 13.00 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | 5.88 | 13.00 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | 6.20 | 13.00 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | 6.00 | 13.00 | PASS |

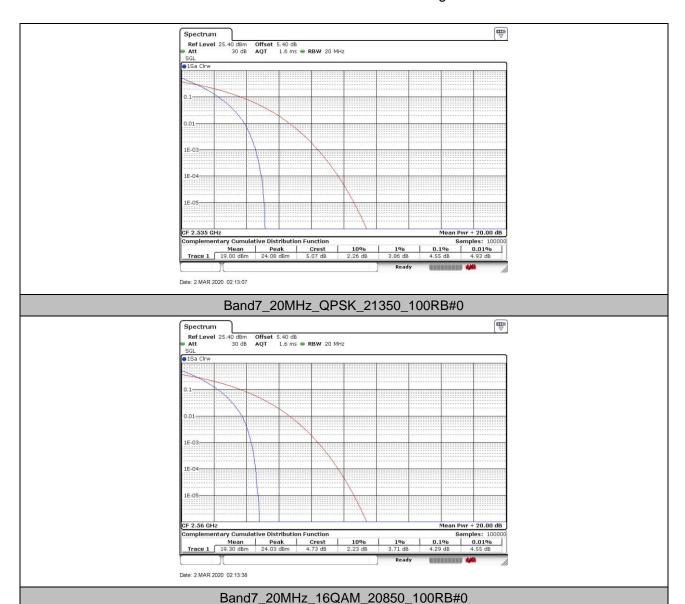
2.2. Test Plots





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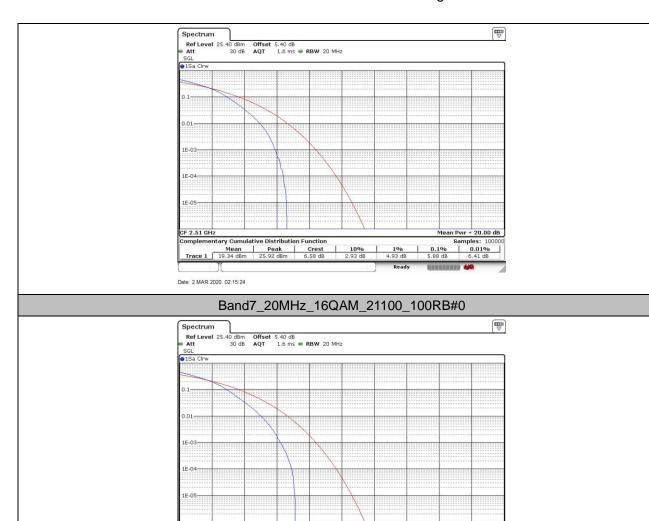
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Band7_20MHz_16QAM_21350_100RB#0

7.08 dB

Date: 2.MAR.2020 02:14:52



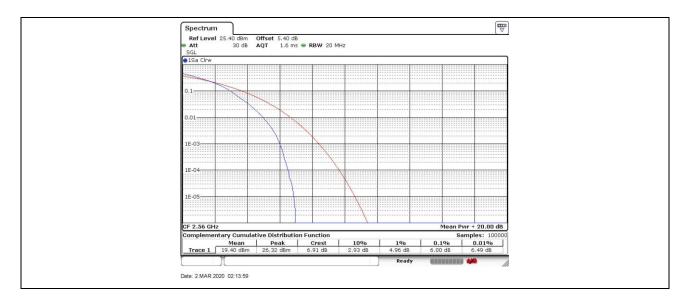
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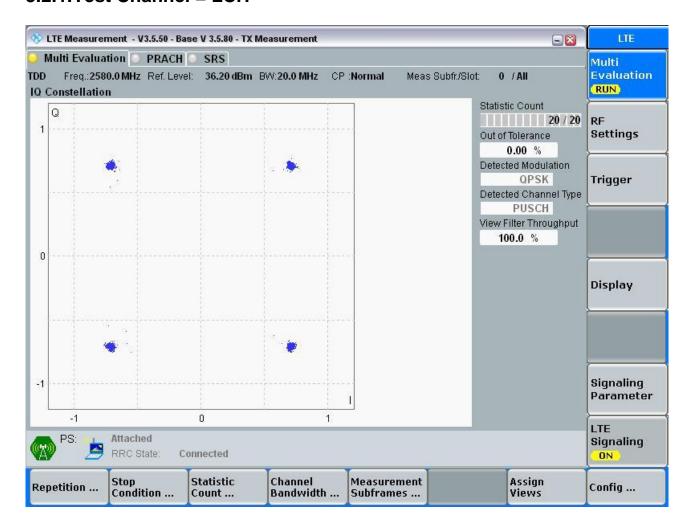
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3. Modulation Characteristics

- 3.1. Test Band = LTE Band 7
- 3.2. Test Mode = LTE /TM1 20MHz
- 3.2.1.Test Channel = LCH

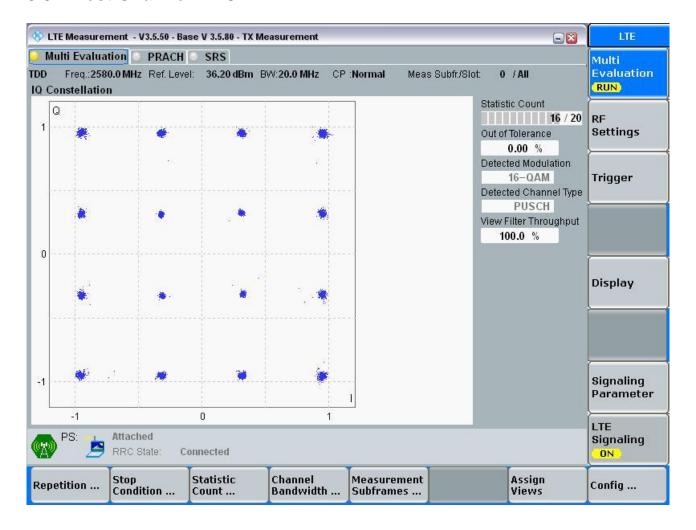




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3.3. Test Mode = LTE /TM2 20MHz

3.3.1.Test Channel = LCH





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4. 26dB Bandwidth and Occupied Bandwidth

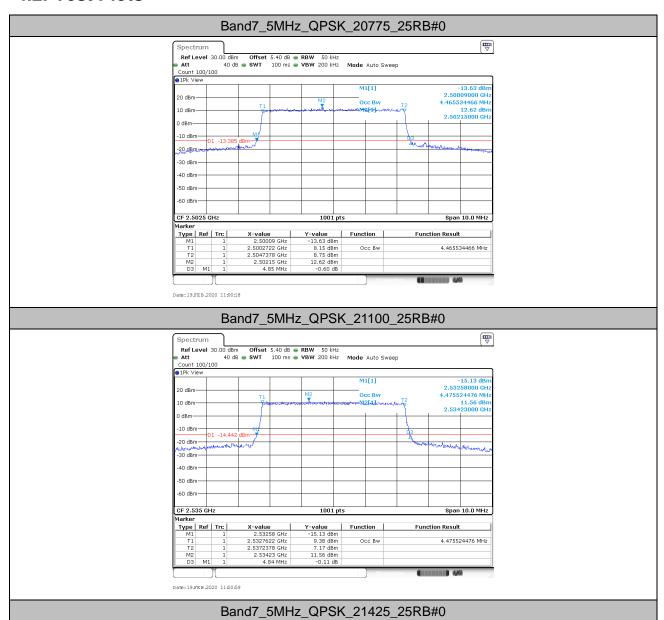
4.1. Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|-------|-----------|------------|---------|---------------------|--------------------------------|----------------------------|---------|
| Band7 | 5MHz | QPSK | 20775 | 25RB#0 | 4.466 | 4.850 | PASS |
| Band7 | 5MHz | QPSK | 21100 | 25RB#0 | 4.476 | 4.840 | PASS |
| Band7 | 5MHz | QPSK | 21425 | 25RB#0 | 4.476 | 5.270 | PASS |
| Band7 | 5MHz | 16QAM | 20775 | 25RB#0 | 4.466 | 4.860 | PASS |
| Band7 | 5MHz | 16QAM | 21100 | 25RB#0 | 4.466 | 4.860 | PASS |
| Band7 | 5MHz | 16QAM | 21425 | 25RB#0 | 4.466 | 4.810 | PASS |
| Band7 | 10MHz | QPSK | 20800 | 50RB#0 | 8.951 | 9.560 | PASS |
| Band7 | 10MHz | QPSK | 21100 | 50RB#0 | 8.911 | 9.560 | PASS |
| Band7 | 10MHz | QPSK | 21400 | 50RB#0 | 8.951 | 9.880 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 50RB#0 | 8.931 | 9.540 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 50RB#0 | 8.931 | 9.600 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 50RB#0 | 8.931 | 9.600 | PASS |
| Band7 | 15MHz | QPSK | 20825 | 75RB#0 | 13.487 | 15.690 | PASS |
| Band7 | 15MHz | QPSK | 21100 | 75RB#0 | 13.427 | 14.790 | PASS |
| Band7 | 15MHz | QPSK | 21375 | 75RB#0 | 13.516 | 15.420 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 75RB#0 | 13.457 | 14.760 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 75RB#0 | 13.457 | 14.670 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 75RB#0 | 13.487 | 14.670 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 100RB#0 | 17.982 | 19.600 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 100RB#0 | 17.902 | 19.600 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 100RB#0 | 17.942 | 19.240 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | 17.902 | 20.040 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | 17.902 | 19.360 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | 17.942 | 19.240 | PASS |



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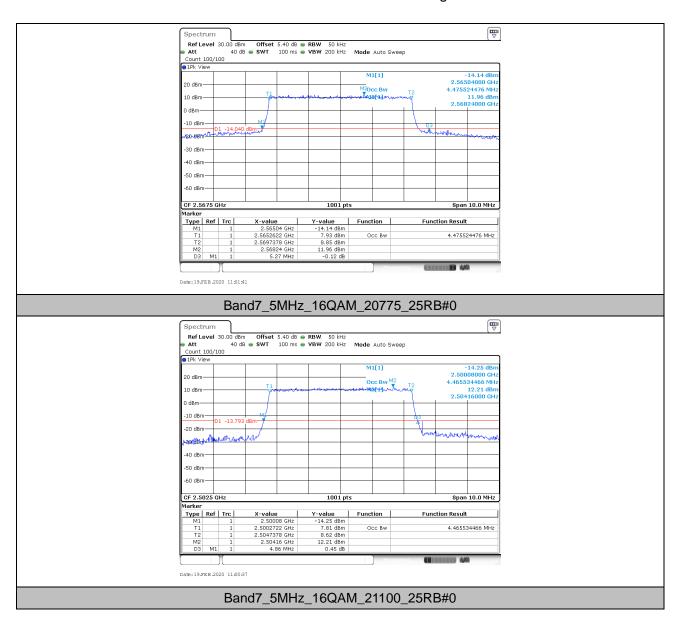
4.2. Test Plots





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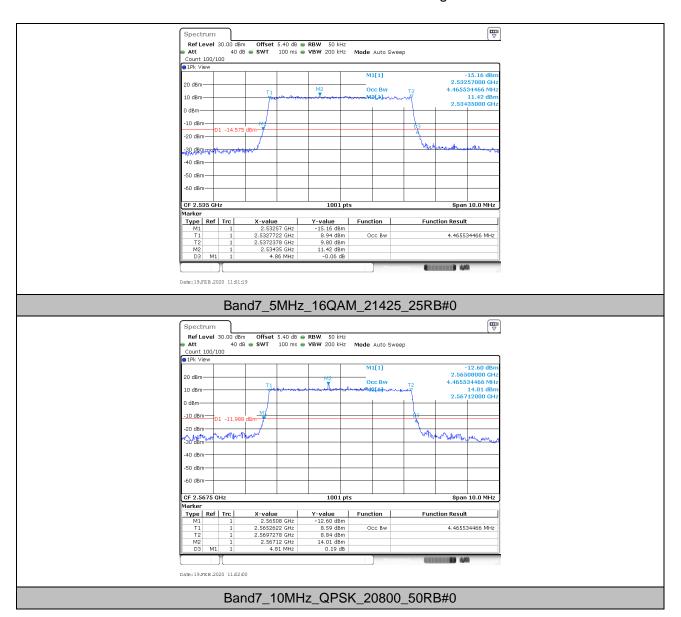
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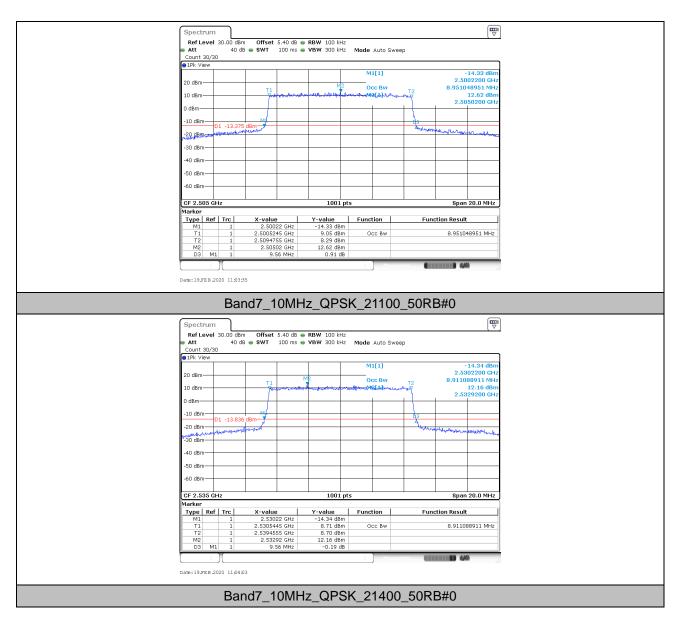
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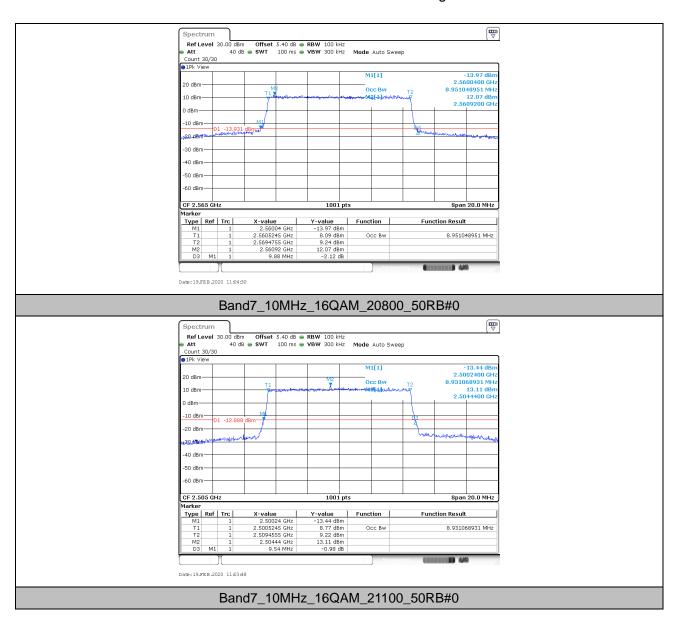
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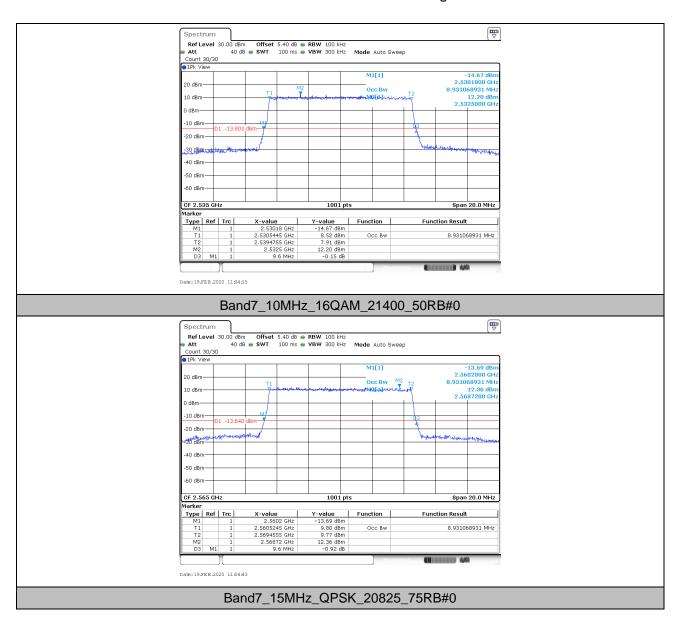


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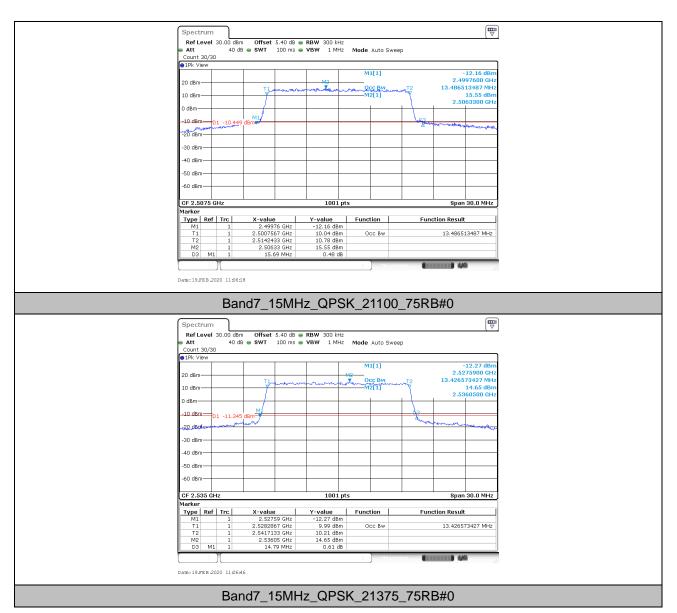


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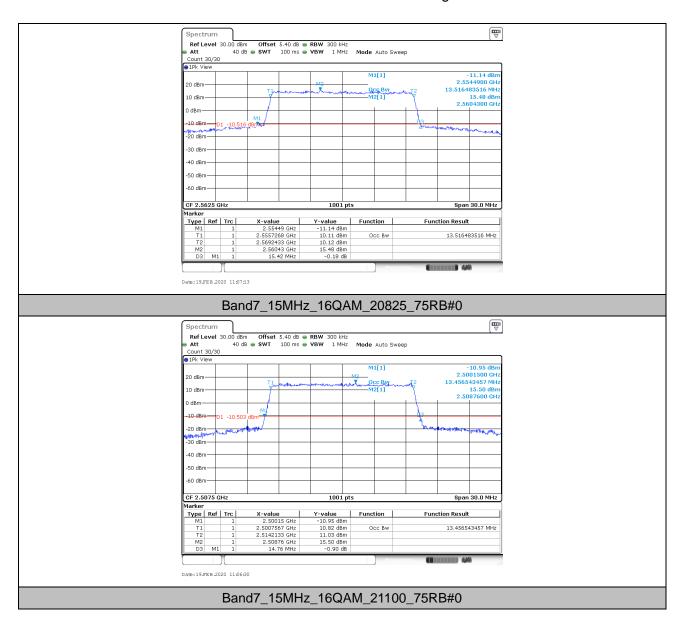
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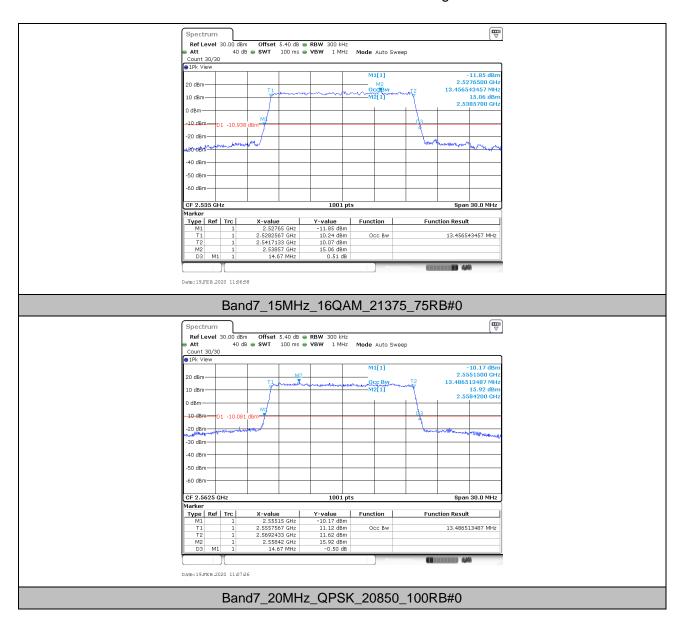
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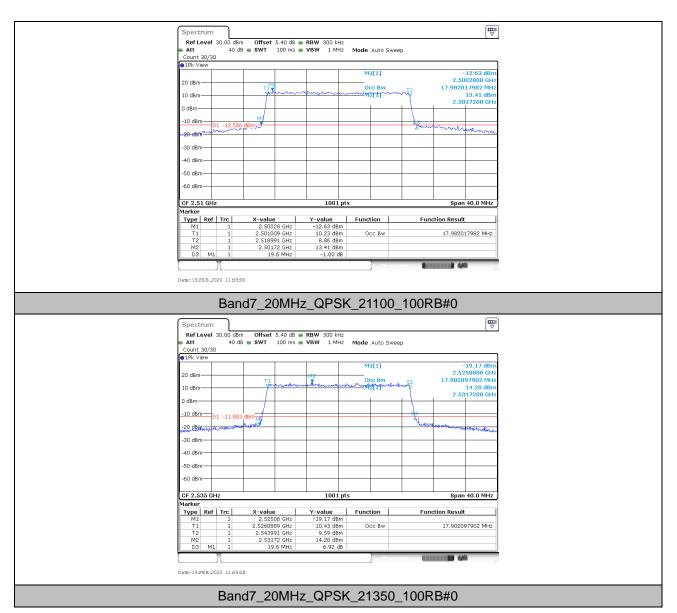
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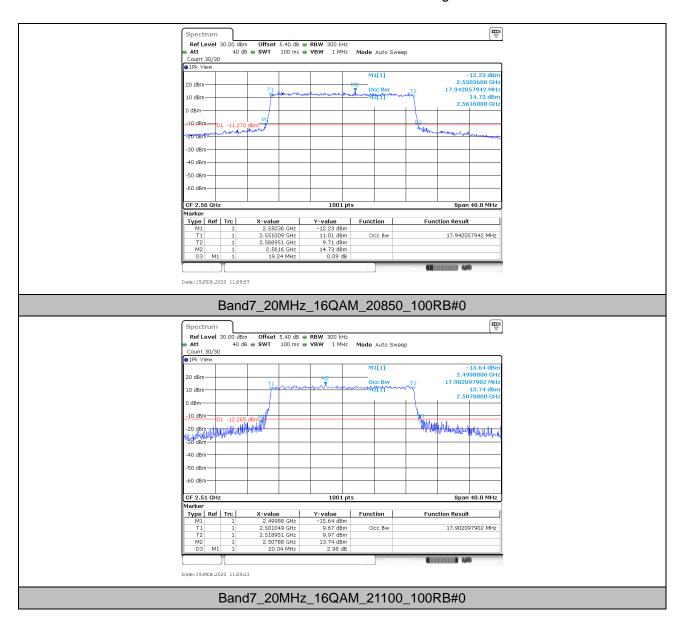
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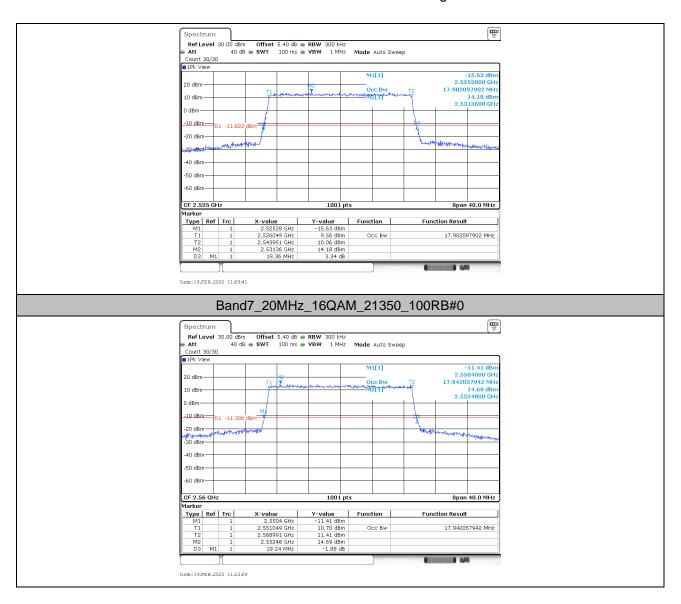


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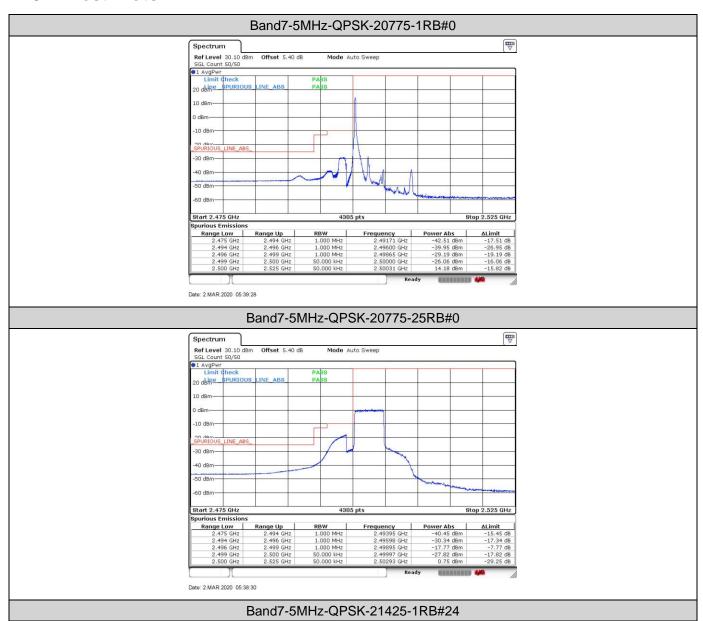
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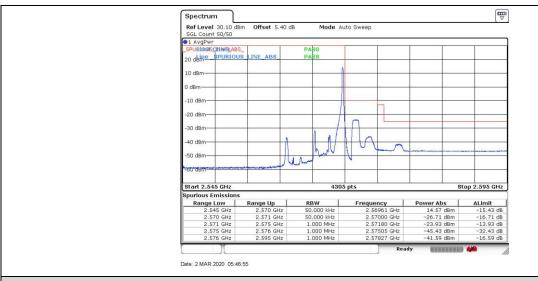
5. Band Edge Compliance

5.1. Test Plots





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



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



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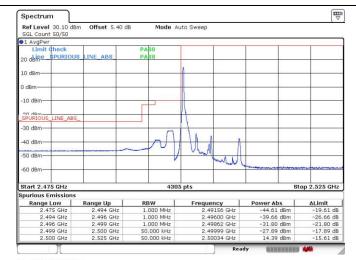
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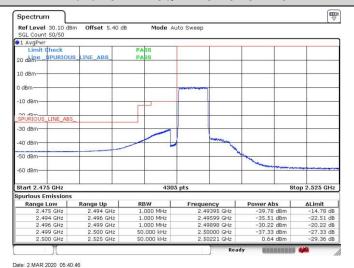
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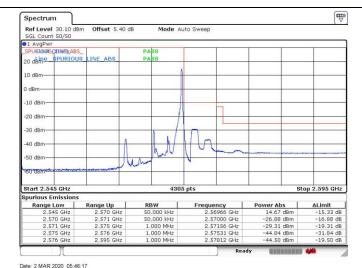


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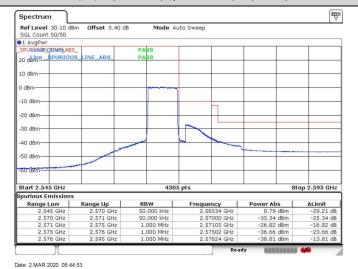


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Band7-5MHz-16QAM-21425-25RB#0



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



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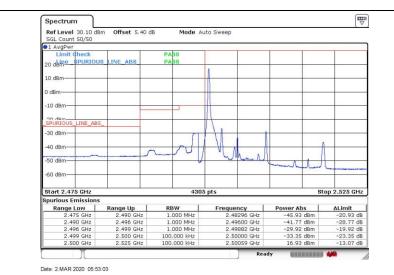
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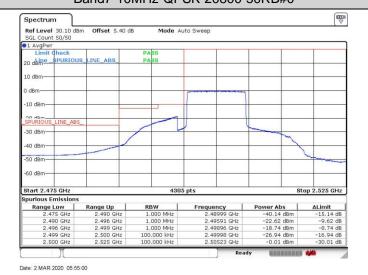
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Band7-10MHz-QPSK-20800-50RB#0



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

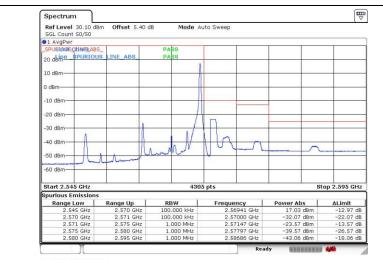


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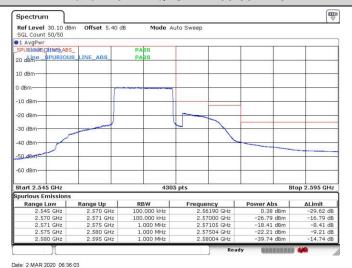
Report No.: ZR/2020/2000201

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Date: 2.MAR.2020 06:36:49

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

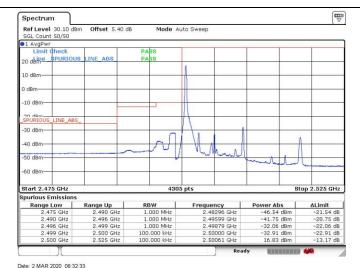


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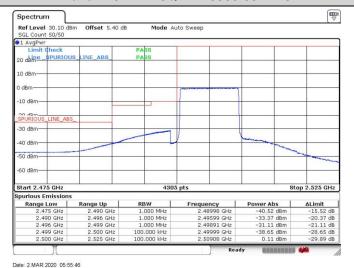


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Band7-10MHz-16QAM-20800-50RB#0

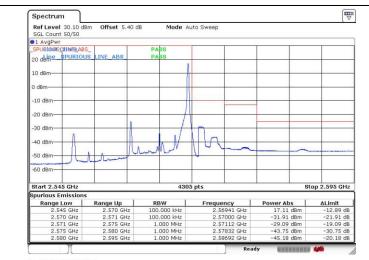


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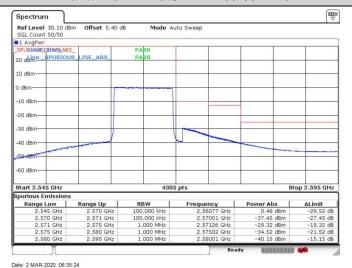
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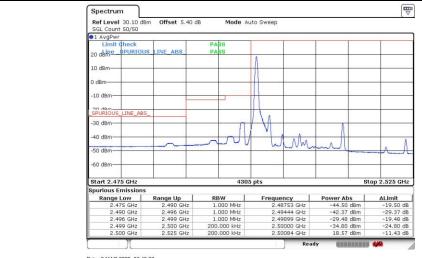


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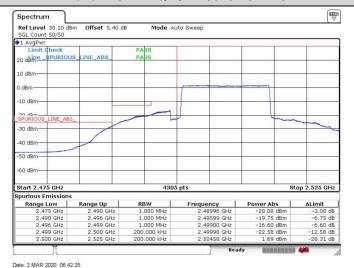
Report No.: ZR/2020/2000201

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Date: 2.MAR.2020 06:43:26

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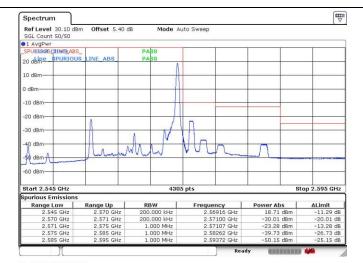


Band7-15MHz-QPSK-21375-1RB#74



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Date: 2.MAR.2020 06:51:59

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



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



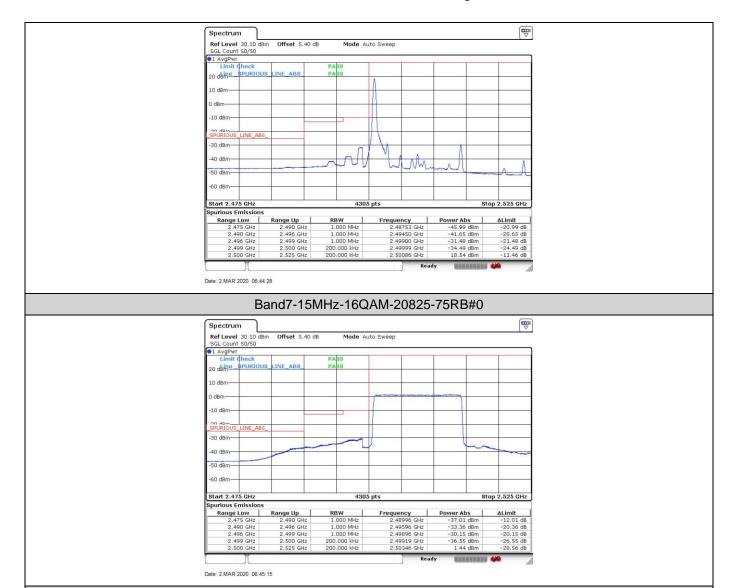
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Band7-15MHz-16QAM-21375-1RB#74



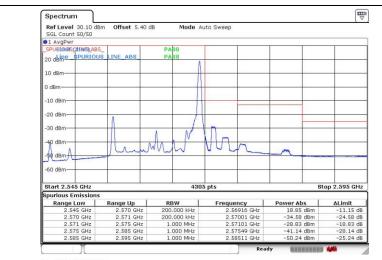


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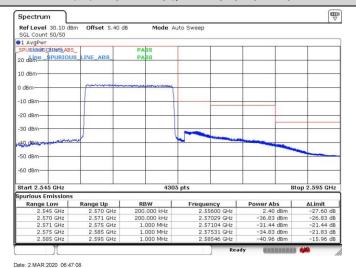
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Date: 2.MAR.2020 06:51:02

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



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



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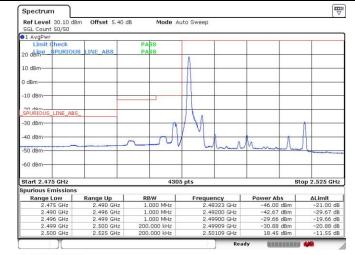
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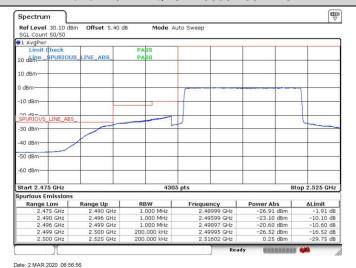
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Date: 2.MAR.2020 06:58:47

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

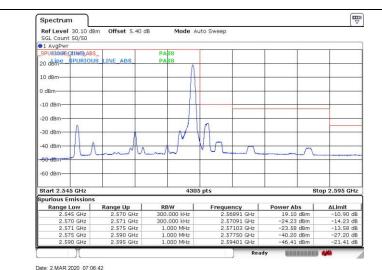


Band7-20MHz-QPSK-21350-1RB#99

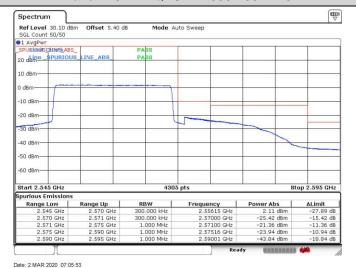


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Band7-20MHz-QPSK-21350-100RB#0



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



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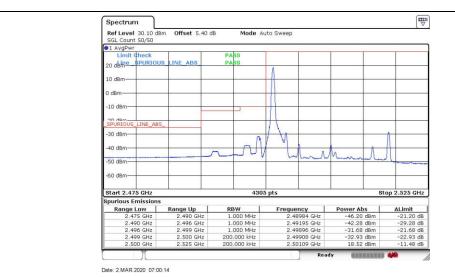
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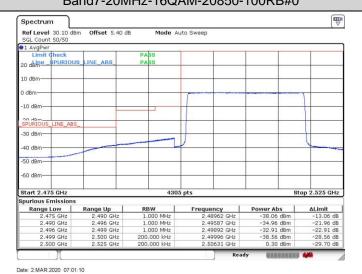
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Band7-20MHz-16QAM-20850-100RB#0



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



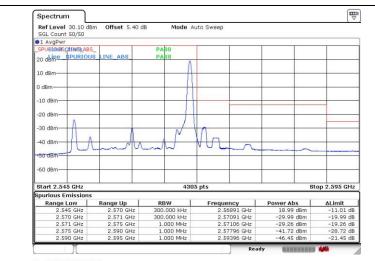
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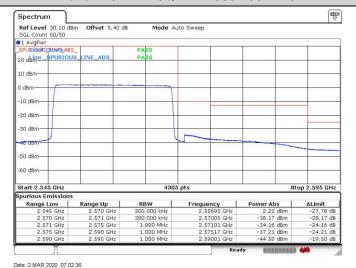
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Date: 2.MAR.2020 07:04:08

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





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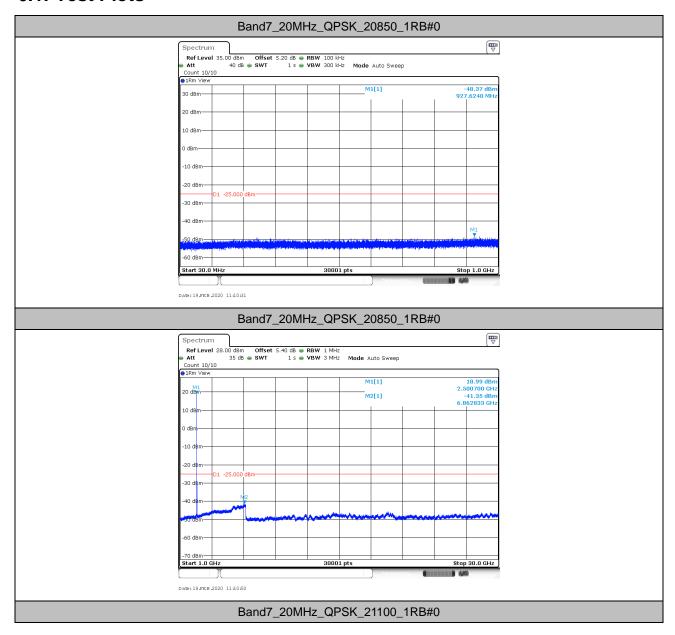
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6. Spurious Emission at Antenna Terminal

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

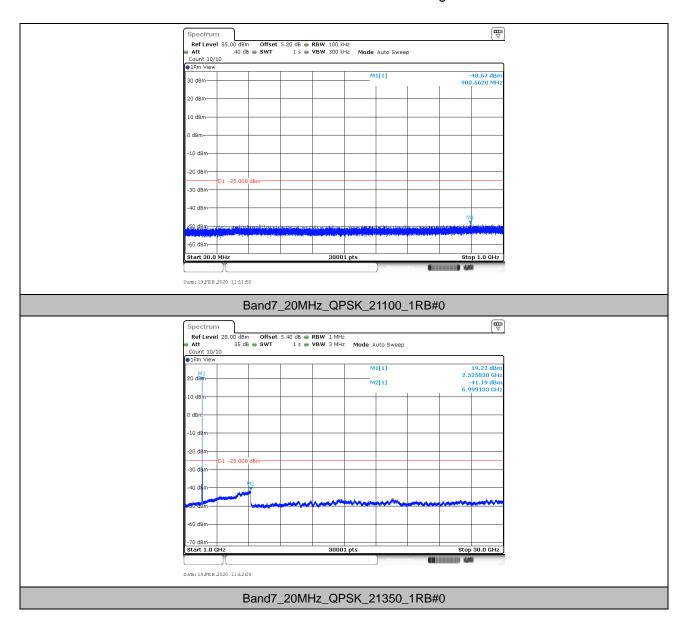






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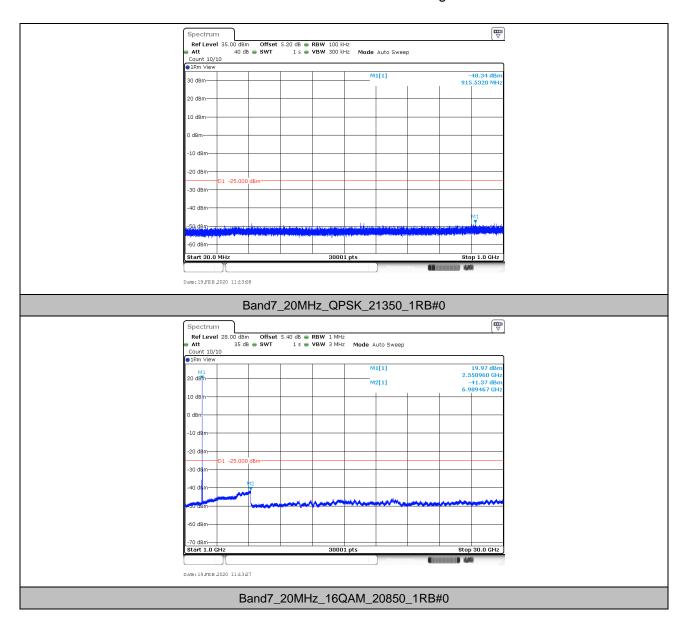
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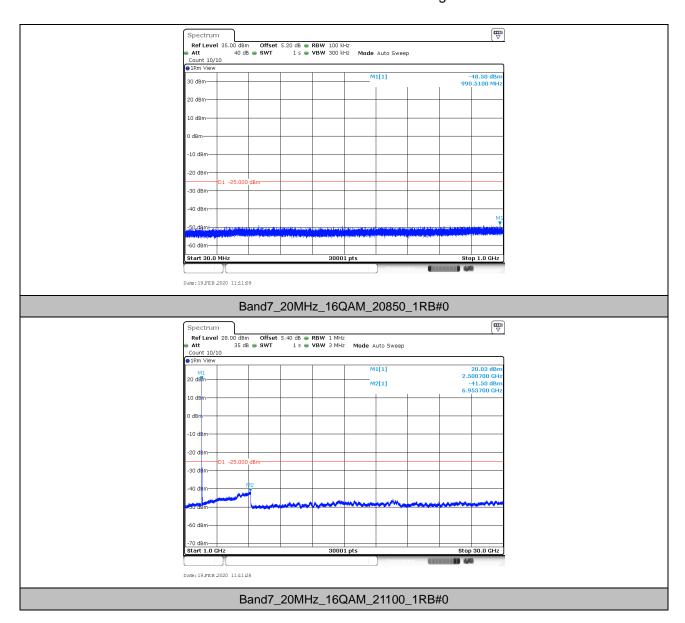






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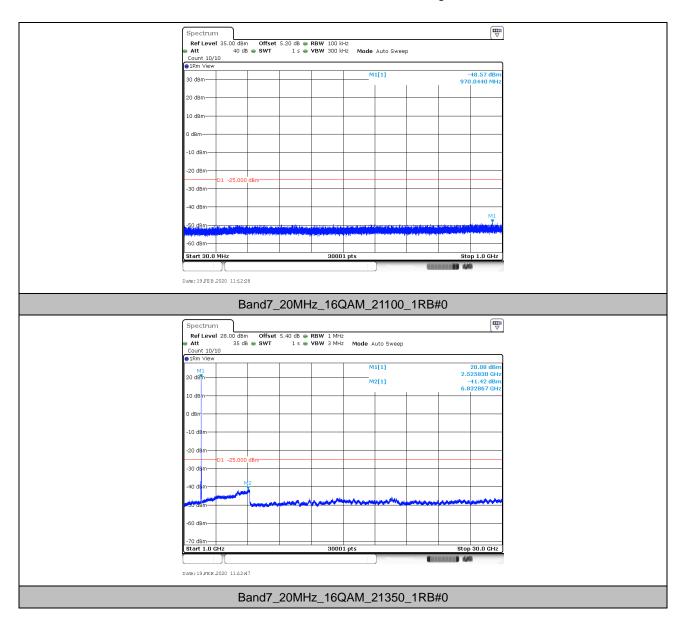






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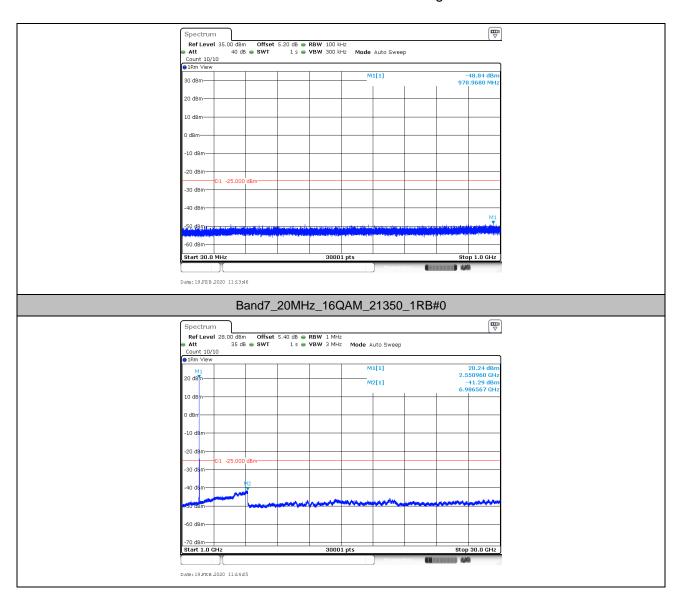






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7. Field Strength of Spurious Radiation

7.1. Test Band = LTE Band 7

7.1.1.Test Mode =LTE/TM1

7.1.1.1. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 73.7007 | -67.47 | -25.00 | 42.47 | Vertical |
| 107.5069 | -65.49 | -25.00 | 40.49 | Vertical |
| 327.2714 | -69.18 | -25.00 | 44.18 | Vertical |
| 2954.7910 | -39.42 | -25.00 | 14.42 | Vertical |
| 7503.1801 | -50.67 | -25.00 | 25.67 | Vertical |
| 17987.9995 | -42.85 | -25.00 | 17.85 | Vertical |
| 44.6477 | -64.43 | -25.00 | 39.43 | Horizontal |
| 232.2066 | -68.48 | -25.00 | 43.48 | Horizontal |
| 531.0301 | -66.93 | -25.00 | 41.93 | Horizontal |
| 2981.1962 | -39.22 | -25.00 | 14.22 | Horizontal |
| 7503.1801 | -53.81 | -25.00 | 28.81 | Horizontal |
| 16392.5357 | -47.22 | -25.00 | 22.22 | Horizontal |

7.1.1.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 65.8918 | -68.12 | -25.00 | 43.12 | Vertical |
| 114.4912 | -64.90 | -25.00 | 39.90 | Vertical |
| 461.9141 | -68.00 | -25.00 | 43.00 | Vertical |
| 2944.3889 | -39.36 | -25.00 | 14.36 | Vertical |
| 7578.1831 | -51.32 | -25.00 | 26.32 | Vertical |
| 10104.2842 | -49.99 | -25.00 | 24.99 | Vertical |
| 42.5621 | -64.86 | -25.00 | 39.86 | Horizontal |
| 234.8257 | -69.10 | -25.00 | 44.10 | Horizontal |
| 601.6981 | -64.32 | -25.00 | 39.32 | Horizontal |
| 2998.7998 | -39.47 | -25.00 | 14.47 | Horizontal |
| 7578.1831 | -54.88 | -25.00 | 29.88 | Horizontal |
| 16366.1346 | -47.11 | -25.00 | 22.11 | Horizontal |



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7.1.1.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 72.9246 | -69.41 | -25.00 | 44.41 | Vertical |
| 112.5026 | -65.55 | -25.00 | 40.55 | Vertical |
| 447.5089 | -68.49 | -25.00 | 43.49 | Vertical |
| 2991.9984 | -39.21 | -25.00 | 14.21 | Vertical |
| 7653.1861 | -49.39 | -25.00 | 24.39 | Vertical |
| 17998.1999 | -42.81 | -25.00 | 17.81 | Vertical |
| 39.6035 | -64.38 | -25.00 | 39.38 | Horizontal |
| 228.0354 | -69.02 | -25.00 | 44.02 | Horizontal |
| 654.0322 | -64.13 | -25.00 | 39.13 | Horizontal |
| 2943.5887 | -39.40 | -25.00 | 14.40 | Horizontal |
| 7653.1861 | -51.49 | -25.00 | 26.49 | Horizontal |
| 16381.7353 | -46.77 | -25.00 | 21.77 | Horizontal |

Remark:

- 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 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.
- 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

| Dond | Bandwidth | Modulation | Channal | RB | Voltage | Temperature | Deviation | Deviation | Limit | Vardiet |
|-------|----------------|------------|---------|-----------|---------|-------------|-----------|-----------|-------|---------|
| Band | Danu Danuwiuin | Modulation | Channel | Configure | [Vdc] | (°C) | (Hz) | (ppm) | (ppm) | Verdict |
| Band7 | 20MHz | QPSK | 20850 | 100RB#0 | VL | NT | -13.68 | -0.005450 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 100RB#0 | VN | NT | -12.53 | -0.004992 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 100RB#0 | VH | NT | -15.82 | -0.006303 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 100RB#0 | VL | NT | -14.31 | -0.005645 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 100RB#0 | VN | NT | -16.54 | -0.006525 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 100RB#0 | VH | NT | -15.32 | -0.006043 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 100RB#0 | VL | NT | -19.34 | -0.007555 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 100RB#0 | VN | NT | -24.03 | -0.009387 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 100RB#0 | VH | NT | -22.43 | -0.008762 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | VL | NT | -15.69 | -0.006251 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | VN | NT | -9.34 | -0.003721 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | VH | NT | -14.49 | -0.005773 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | VL | NT | -15.72 | -0.006201 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | VN | NT | -11.22 | -0.004426 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | VH | NT | -13.62 | -0.005373 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | VL | NT | -14.99 | -0.005855 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | VN | NT | -17.21 | -0.006723 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | VH | NT | -15.81 | -0.006176 | ±2.5 | PASS |

8.2. Frequency Vs Temperature

| | • | | • | | | | | | | |
|-------|-----------|------------|---------|-----------|---------|-------------|-----------|-----------|-------|---------|
| Band | Bandwidth | Madulation | Channal | RB | Voltage | Temperature | Deviation | Deviation | Limit | Verdict |
| Danu | Danawiain | Modulation | Channel | Configure | [Vdc] | (°C) | (Hz) | (ppm) | (ppm) | verdict |
| Band7 | 20MHz | QPSK | 20850 | 100RB#0 | NV | -30 | -13.35 | -0.005319 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 100RB#0 | NV | -20 | -13.59 | -0.005414 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 100RB#0 | NV | 0 | -9.50 | -0.003785 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 100RB#0 | NV | 10 | -11.01 | -0.004386 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 100RB#0 | NV | 20 | -12.19 | -0.004857 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 100RB#0 | NV | 30 | -13.22 | -0.005267 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 100RB#0 | NV | 40 | -11.26 | -0.004486 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 20850 | 100RB#0 | NV | 50 | -9.56 | -0.003809 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 100RB#0 | NV | -30 | -12.55 | -0.004951 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 100RB#0 | NV | -20 | -14.26 | -0.005625 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 100RB#0 | NV | 0 | -14.95 | -0.005897 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 100RB#0 | NV | 10 | -12.23 | -0.004824 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 100RB#0 | NV | 20 | -13.06 | -0.005152 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 100RB#0 | NV | 30 | -12.04 | -0.004750 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 100RB#0 | NV | 40 | -13.05 | -0.005148 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 21100 | 100RB#0 | NV | 50 | -12.57 | -0.004959 | ±2.5 | PASS |



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| Band7 | 20MHz | QPSK | 21350 | 100RB#0 | NV | -30 | -12.43 | -0.004855 | ±2.5 | PASS |
|-------|-------|-------|-------|---------|----|-----|--------|-----------|------|------|
| Band7 | 20MHz | QPSK | 21350 | 100RB#0 | NV | -20 | -12.16 | -0.004750 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 100RB#0 | NV | 0 | -15.28 | -0.005969 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 100RB#0 | NV | 10 | -13.33 | -0.005207 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 100RB#0 | NV | 20 | -16.87 | -0.006590 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 100RB#0 | NV | 30 | -18.48 | -0.007219 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 100RB#0 | NV | 40 | -15.55 | -0.006074 | ±2.5 | PASS |
| Band7 | 20MHz | QPSK | 21350 | 100RB#0 | NV | 50 | -19.01 | -0.007426 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | NV | -30 | -11.34 | -0.004518 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | NV | -20 | -13.70 | -0.005458 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | NV | 0 | -9.17 | -0.003653 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | NV | 10 | -14.36 | -0.005721 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | NV | 20 | -14.46 | -0.005761 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | NV | 30 | -12.12 | -0.004829 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | NV | 40 | -9.53 | -0.003797 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | NV | 50 | -15.19 | -0.006052 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | NV | -30 | -13.48 | -0.005318 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | NV | -20 | -14.62 | -0.005767 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | NV | 0 | -17.25 | -0.006805 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | NV | 10 | -17.15 | -0.006765 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | NV | 20 | -12.96 | -0.005112 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | NV | 30 | -9.27 | -0.003657 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | NV | 40 | -11.64 | -0.004592 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | NV | 50 | -10.56 | -0.004166 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | NV | -30 | -15.25 | -0.005957 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | NV | -20 | -15.16 | -0.005922 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | NV | 0 | -18.64 | -0.007281 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | NV | 10 | -15.28 | -0.005969 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | NV | 20 | -16.02 | -0.006258 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | NV | 30 | -15.91 | -0.006215 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | NV | 40 | -11.44 | -0.004469 | ±2.5 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | NV | 50 | -13.95 | -0.005449 | ±2.5 | PASS |

The End



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