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Appendix B

E-UTRA Band 5



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1. Effective (Isotropic) Radiated Power

1.1. Test Result

| DAND | D 1 1 14 | NA 11 C | | RB | Conducted | ERP | limit | \/ F (|
|-------|-----------|------------|---------|---------------|------------|-------|-------|---------|
| BAND | Bandwidth | Modulation | Channel | Configuration | Power(dBm) | (dBm) | (dBm) | Verdict |
| Band5 | 1.4MHz | QPSK | 20407 | 1RB#0 | 23.05 | 19.90 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 1RB#2 | 23.05 | 19.90 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 1RB#5 | 22.40 | 19.25 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 3RB#0 | 23.12 | 19.97 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 3RB#1 | 23.13 | 19.98 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 3RB#3 | 23.23 | 20.08 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 6RB#0 | 22.13 | 18.98 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 1RB#0 | 22.97 | 19.82 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 1RB#2 | 23.14 | 19.99 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 1RB#5 | 23.01 | 19.86 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 3RB#0 | 23.16 | 20.01 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 3RB#1 | 23.22 | 20.07 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 3RB#3 | 23.19 | 20.04 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 6RB#0 | 21.98 | 18.83 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 1RB#0 | 22.99 | 19.84 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 1RB#2 | 23.00 | 19.85 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 1RB#5 | 22.76 | 19.61 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 3RB#0 | 22.96 | 19.81 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 3RB#1 | 23.29 | 20.14 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 3RB#3 | 22.99 | 19.84 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 6RB#0 | 21.91 | 18.76 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 1RB#0 | 21.73 | 18.58 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 1RB#2 | 21.86 | 18.71 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 1RB#5 | 21.88 | 18.73 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 3RB#0 | 22.25 | 19.10 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 3RB#1 | 22.34 | 19.19 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 3RB#3 | 22.48 | 19.33 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0 | 21.05 | 17.90 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 1RB#0 | 21.63 | 18.48 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 1RB#2 | 21.89 | 18.74 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 1RB#5 | 21.70 | 18.55 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 3RB#0 | 22.42 | 19.27 | 38.45 | PASS |



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| Band5 | 1.4MHz | 16QAM | 20525 | 3RB#1 | 22.38 | 19.23 | 38.45 | PASS |
|-------|--------|-------|-------|--------|-------|-------|-------|------|
| Band5 | 1.4MHz | 16QAM | 20525 | 3RB#3 | 22.24 | 19.09 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0 | 21.12 | 17.97 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#0 | 21.78 | 18.63 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#2 | 22.01 | 18.86 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#5 | 21.77 | 18.62 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 3RB#0 | 22.07 | 18.92 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 3RB#1 | 22.02 | 18.87 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 3RB#3 | 22.20 | 19.05 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0 | 20.92 | 17.77 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 1RB#0 | 23.18 | 20.03 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 1RB#8 | 22.98 | 19.83 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 1RB#14 | 23.11 | 19.96 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 8RB#0 | 21.93 | 18.78 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 8RB#4 | 22.02 | 18.87 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 8RB#7 | 21.95 | 18.80 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 15RB#0 | 22.06 | 18.91 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 1RB#0 | 23.00 | 19.85 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 1RB#8 | 22.82 | 19.67 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 1RB#14 | 22.99 | 19.84 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 8RB#0 | 21.96 | 18.81 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 8RB#4 | 21.98 | 18.83 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 8RB#7 | 21.95 | 18.80 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 15RB#0 | 21.95 | 18.80 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 1RB#0 | 23.27 | 20.12 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 1RB#8 | 23.00 | 19.85 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 1RB#14 | 22.94 | 19.79 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 8RB#0 | 21.93 | 18.78 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 8RB#4 | 22.03 | 18.88 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 8RB#7 | 22.07 | 18.92 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 15RB#0 | 21.97 | 18.82 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#0 | 21.70 | 18.55 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#8 | 21.78 | 18.63 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#14 | 21.76 | 18.61 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 8RB#0 | 21.52 | 18.37 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 8RB#4 | 20.98 | 17.83 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 8RB#7 | 20.89 | 17.74 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 15RB#0 | 21.00 | 17.85 | 38.45 | PASS |



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| Band5 | 3MHz | 16QAM | 20525 | 1RB#0 | 21.79 | 18.64 | 38.45 | PASS |
|-------|------|-------|-------|---------|-------|-------|-------|------|
| Band5 | 3MHz | 16QAM | 20525 | 1RB#8 | 21.80 | 18.65 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#14 | 21.78 | 18.63 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 8RB#0 | 20.96 | 17.81 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 8RB#4 | 21.02 | 17.87 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 8RB#7 | 21.00 | 17.85 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 15RB#0 | 21.09 | 17.94 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#0 | 21.78 | 18.63 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#8 | 21.82 | 18.67 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#14 | 21.74 | 18.59 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 8RB#0 | 20.91 | 17.76 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 8RB#4 | 20.94 | 17.79 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 8RB#7 | 20.90 | 17.75 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | 21.00 | 17.85 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 1RB#0 | 23.09 | 19.94 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 1RB#12 | 23.01 | 19.86 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 1RB#24 | 22.78 | 19.63 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 12RB#0 | 22.04 | 18.89 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 12RB#6 | 21.93 | 18.78 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 12RB#13 | 22.13 | 18.98 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 25RB#0 | 22.05 | 18.90 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 1RB#0 | 22.87 | 19.72 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 1RB#12 | 22.91 | 19.76 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 1RB#24 | 23.03 | 19.88 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 12RB#0 | 22.07 | 18.92 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 12RB#6 | 21.99 | 18.84 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 12RB#13 | 22.12 | 18.97 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 25RB#0 | 22.11 | 18.96 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 1RB#0 | 23.13 | 19.98 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 1RB#12 | 22.95 | 19.80 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 1RB#24 | 23.02 | 19.87 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 12RB#0 | 21.96 | 18.81 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 12RB#6 | 21.95 | 18.80 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 12RB#13 | 22.16 | 19.01 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 25RB#0 | 22.02 | 18.87 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#0 | 21.58 | 18.43 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#12 | 22.16 | 19.01 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#24 | 21.70 | 18.55 | 38.45 | PASS |



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| Band5 | 5MHz | 16QAM | 20425 | 12RB#0 | 20.94 | 17.79 | 38.45 | PASS |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band5 | 5MHz | 16QAM | 20425 | 12RB#6 | 20.86 | 17.71 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 12RB#13 | 20.99 | 17.84 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 25RB#0 | 21.02 | 17.87 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#0 | 21.64 | 18.49 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#12 | 22.06 | 18.91 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#24 | 21.79 | 18.64 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 12RB#0 | 20.85 | 17.70 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 12RB#6 | 21.12 | 17.97 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 12RB#13 | 20.98 | 17.83 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 25RB#0 | 21.11 | 17.96 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#0 | 21.80 | 18.65 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#12 | 22.06 | 18.91 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#24 | 21.72 | 18.57 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 12RB#0 | 21.01 | 17.86 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 12RB#6 | 21.01 | 17.86 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 12RB#13 | 21.07 | 17.92 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 25RB#0 | 21.10 | 17.95 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 1RB#0 | 23.08 | 19.93 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 1RB#24 | 23.03 | 19.88 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 1RB#49 | 22.83 | 19.68 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 25RB#0 | 22.10 | 18.95 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 25RB#12 | 21.94 | 18.79 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 25RB#25 | 22.26 | 19.11 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | 22.05 | 18.90 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 1RB#0 | 22.94 | 19.79 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 1RB#24 | 23.16 | 20.01 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 1RB#49 | 23.22 | 20.07 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 25RB#0 | 21.97 | 18.82 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 25RB#12 | 22.03 | 18.88 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 25RB#25 | 22.24 | 19.09 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | 22.16 | 19.01 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 1RB#0 | 23.16 | 20.01 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 1RB#24 | 23.07 | 19.92 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 1RB#49 | 23.10 | 19.95 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 25RB#0 | 21.99 | 18.84 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 25RB#12 | 22.02 | 18.87 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 25RB#25 | 22.16 | 19.01 | 38.45 | PASS |



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| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | 22.03 | 18.88 | 38.45 | PASS |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band5 | 10MHz | 16QAM | 20450 | 1RB#0 | 21.34 | 18.19 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#24 | 21.68 | 18.53 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#49 | 21.72 | 18.57 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 25RB#0 | 21.07 | 17.92 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 25RB#12 | 21.23 | 18.08 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 25RB#25 | 21.23 | 18.08 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | 21.14 | 17.99 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#0 | 21.95 | 18.80 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#24 | 21.91 | 18.76 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#49 | 21.93 | 18.78 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 25RB#0 | 20.96 | 17.81 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 25RB#12 | 21.11 | 17.96 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 25RB#25 | 21.22 | 18.07 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | 21.14 | 17.99 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#0 | 21.84 | 18.69 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#24 | 21.94 | 18.79 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#49 | 21.79 | 18.64 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 25RB#0 | 21.12 | 17.97 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 25RB#12 | 21.11 | 17.96 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 25RB#25 | 20.95 | 17.80 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | 21.13 | 17.98 | 38.45 | 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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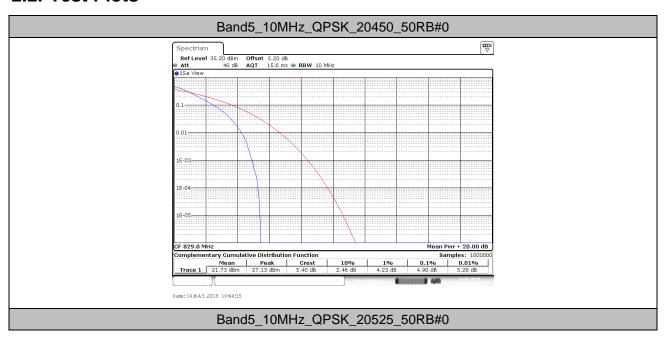
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2. Peak-to-Average Ratio(CCDF)

2.1. Test Result

| BAND | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|-------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | 4.90 | 13 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | 4.55 | 13 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | 4.78 | 13 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | 5.94 | 13 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | 5.57 | 13 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | 5.77 | 13 | PASS |

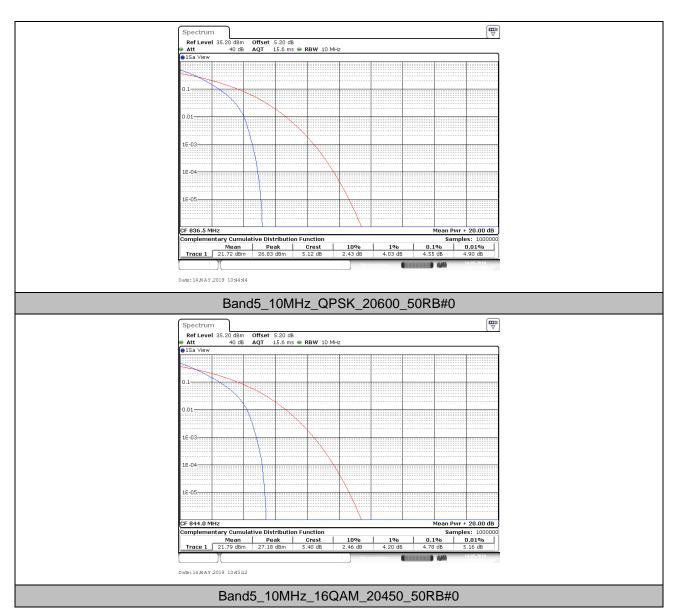
2.2. Test Plots





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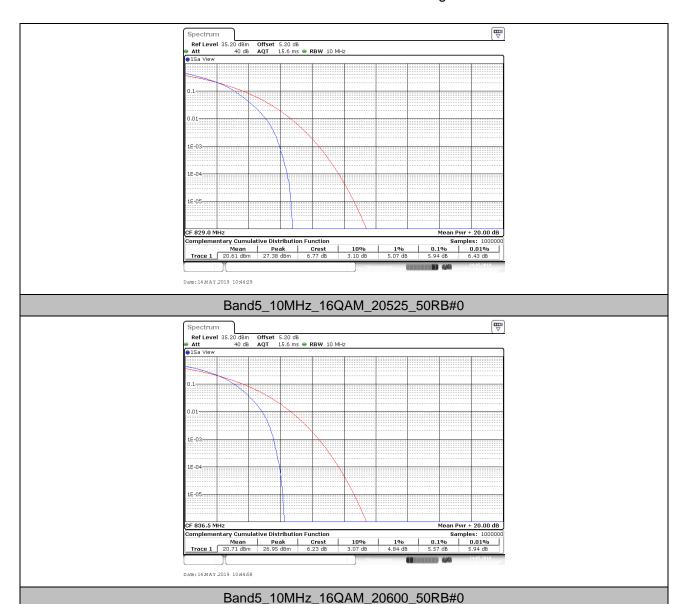
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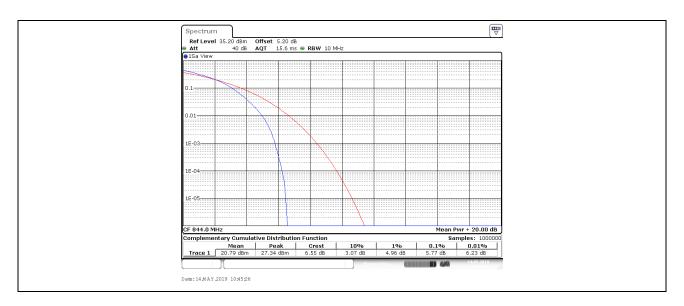
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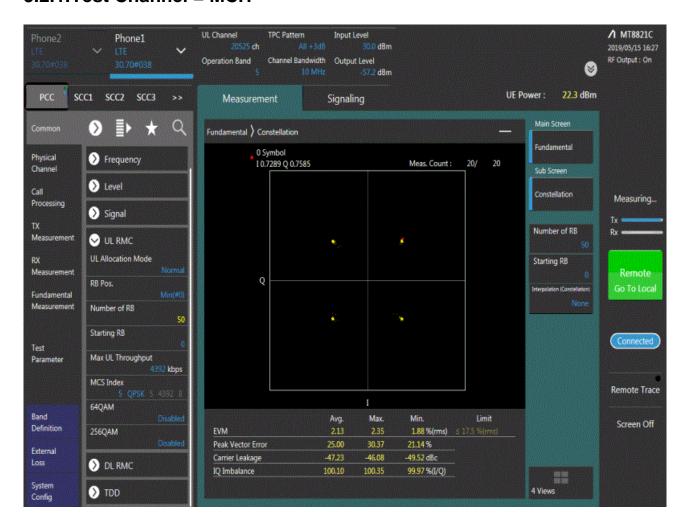




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3. Modulation Characteristics

- 3.1. Test BAND = LTE Band 5
- 3.2. Test Mode = LTE /TM1 10MHz
- 3.2.1.Test Channel = MCH

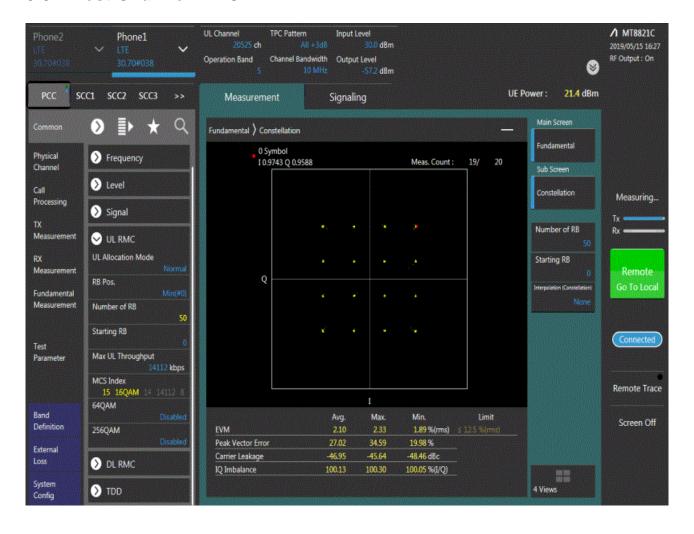




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3.3. Test Mode = LTE /TM2 10MHz

3.3.1.Test Channel = MCH





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4. 26dB Bandwidth and Occupied Bandwidth

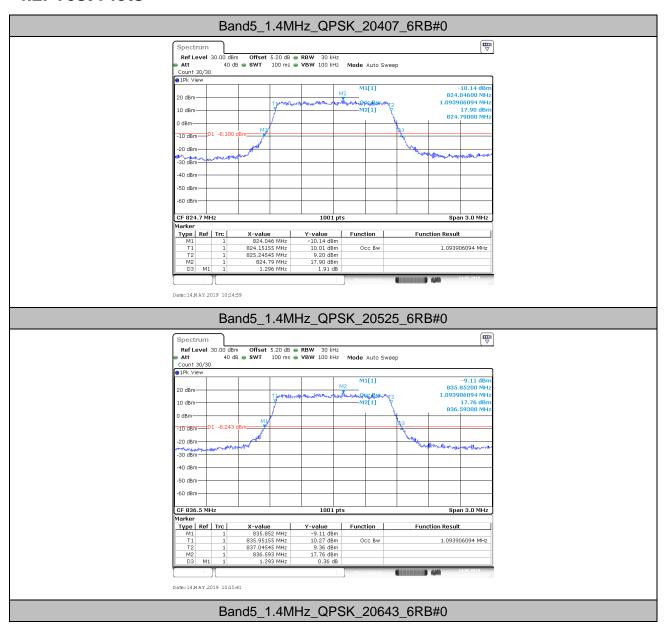
4.1. Test Result

| BAND | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|-------|-----------|------------|---------|---------------------|--------------------------------|----------------------------|---------|
| Band5 | 1.4MHz | QPSK | 20407 | 6RB#0 | 1.094 | 1.296 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 6RB#0 | 1.094 | 1.293 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 6RB#0 | 1.091 | 1.287 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0 | 1.094 | 1.296 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0 | 1.091 | 1.284 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0 | 1.088 | 1.284 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 15RB#0 | 2.691 | 2.988 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 15RB#0 | 2.697 | 2.982 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 15RB#0 | 2.697 | 2.994 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 15RB#0 | 2.685 | 2.970 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 15RB#0 | 2.691 | 2.964 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | 2.685 | 2.970 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 25RB#0 | 4.476 | 4.930 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 25RB#0 | 4.466 | 4.910 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 25RB#0 | 4.476 | 4.930 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 25RB#0 | 4.466 | 4.950 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 25RB#0 | 4.476 | 4.950 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 25RB#0 | 4.486 | 4.950 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | 8.931 | 9.720 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | 8.911 | 9.680 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | 8.931 | 9.680 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | 8.911 | 9.780 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | 8.911 | 9.700 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | 8.931 | 9.720 | PASS |



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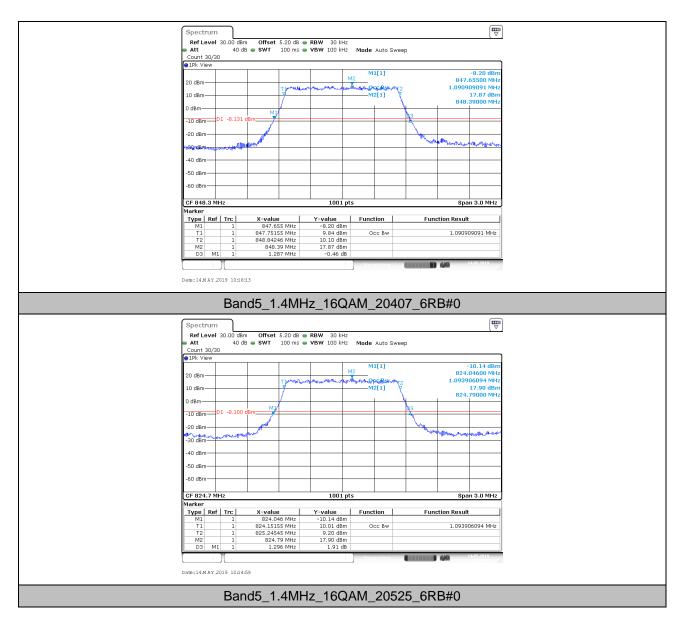
4.2. Test Plots





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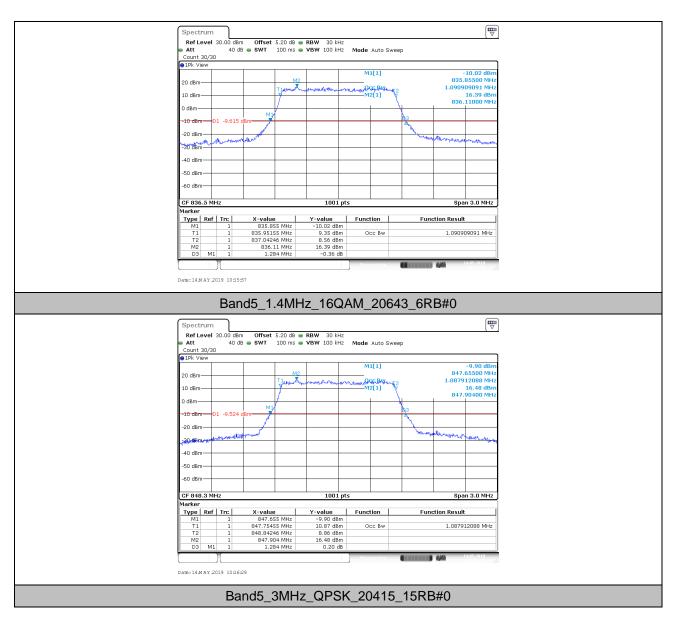
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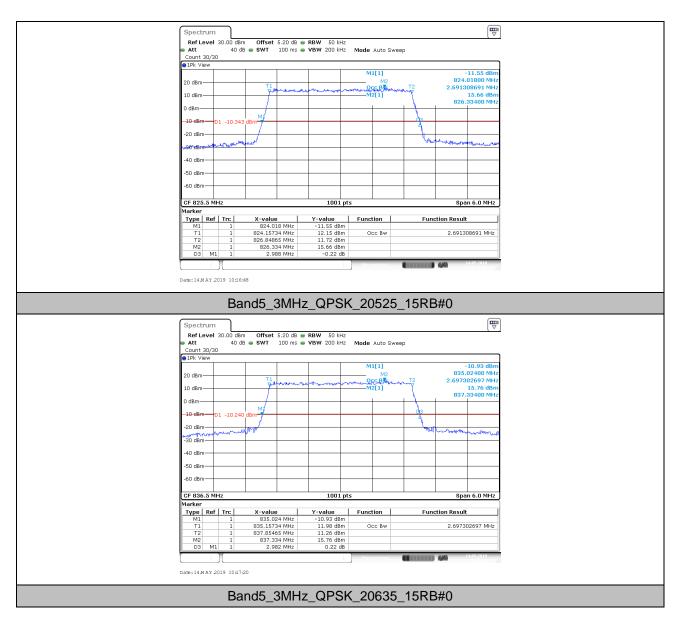
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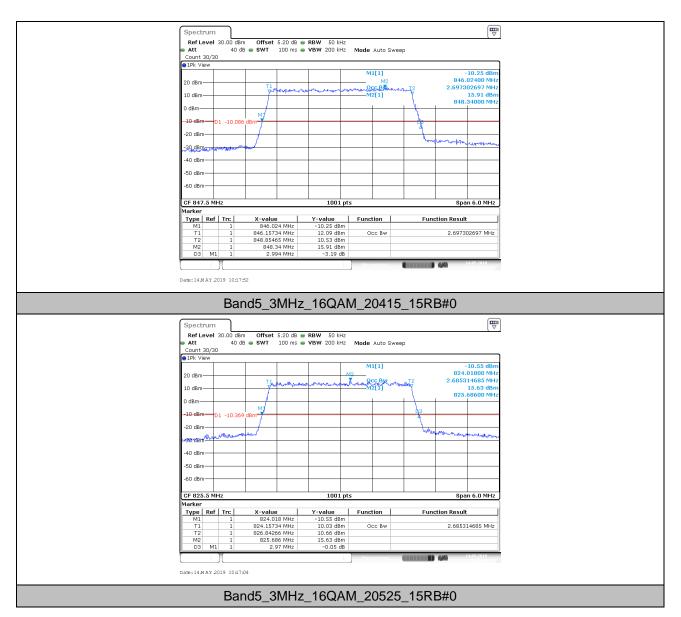
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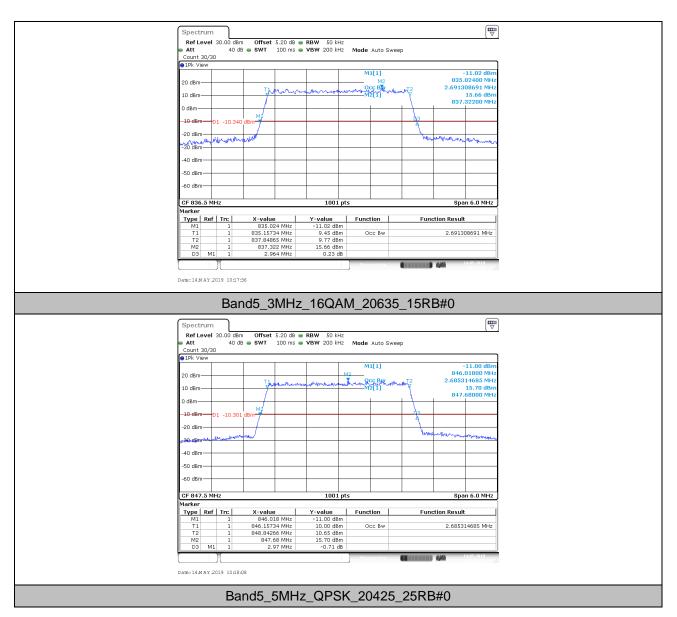
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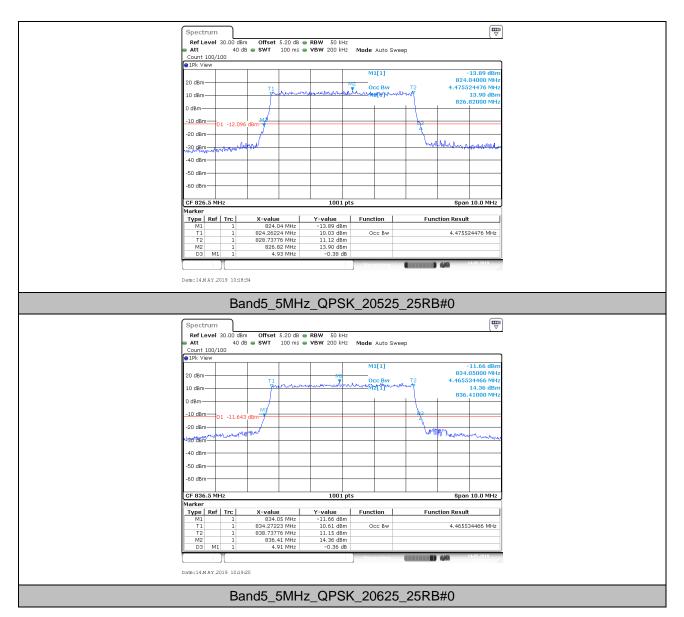
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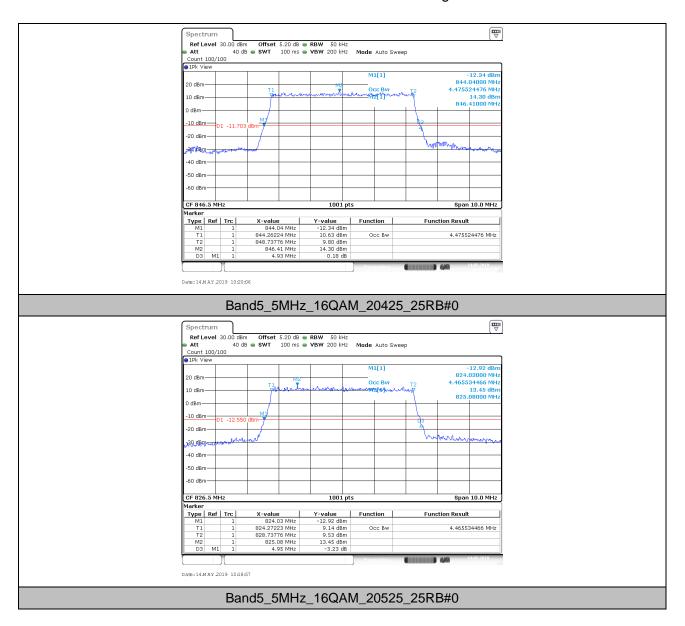
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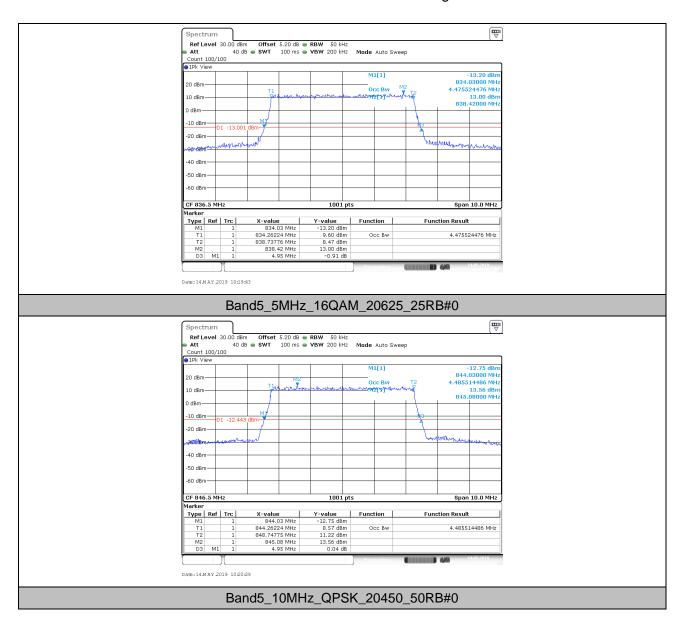
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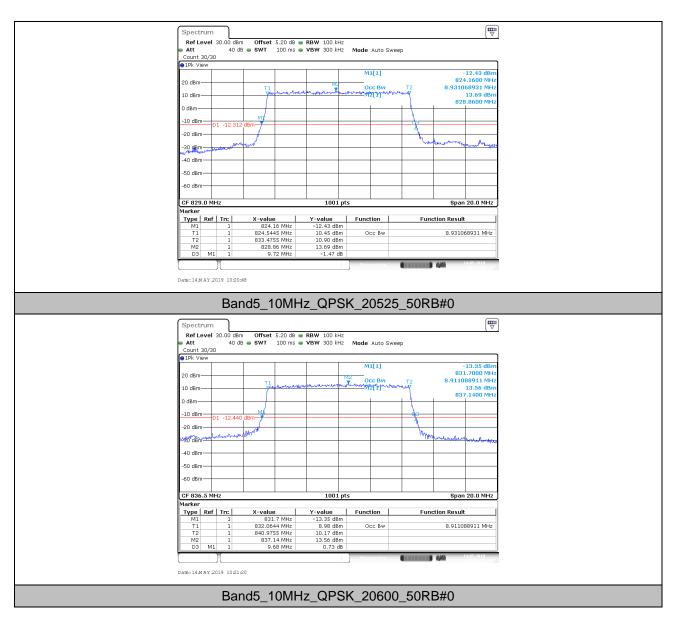
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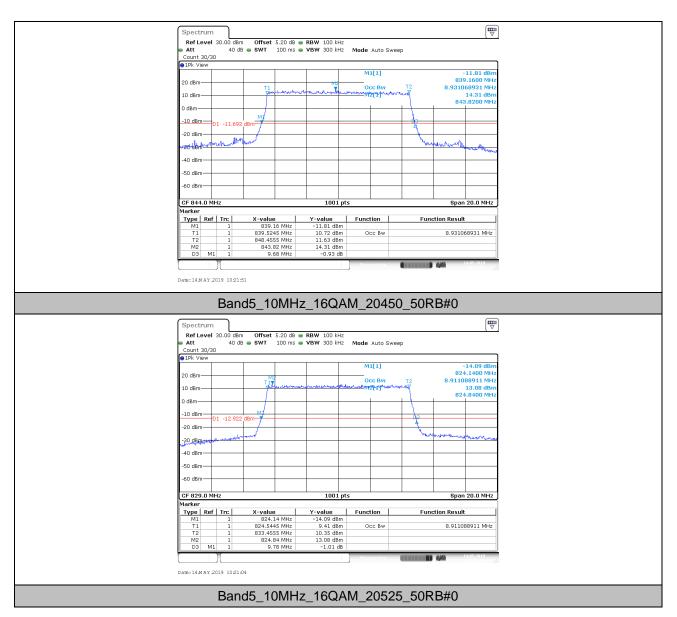
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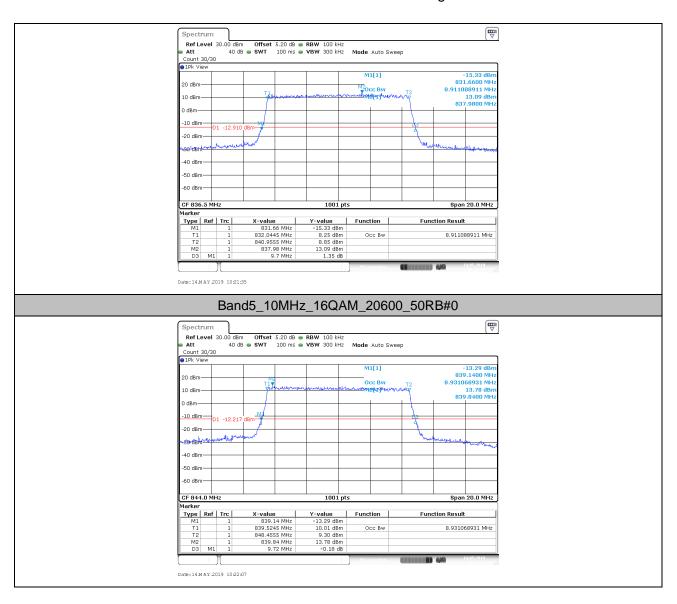
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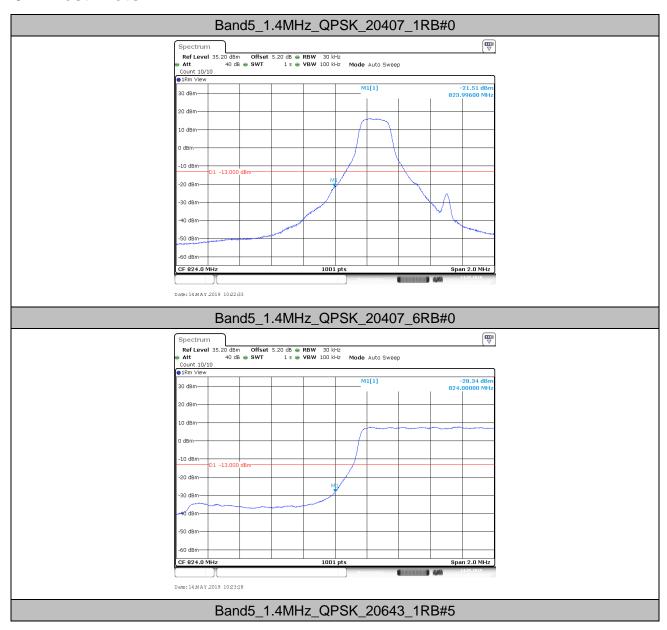




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5. Band Edge Compliance

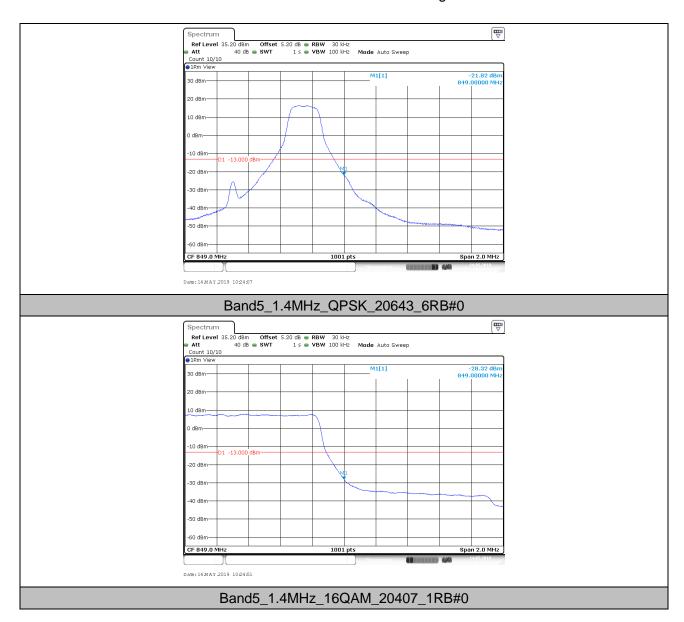
5.1. Test Plots





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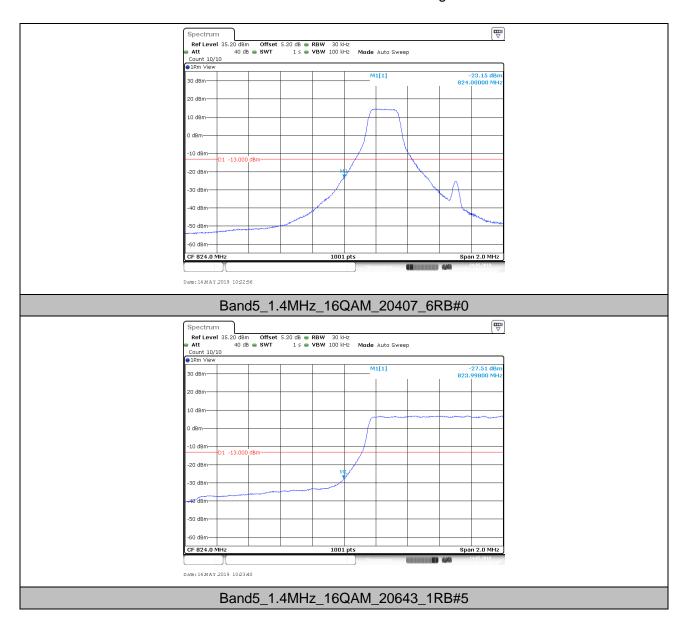
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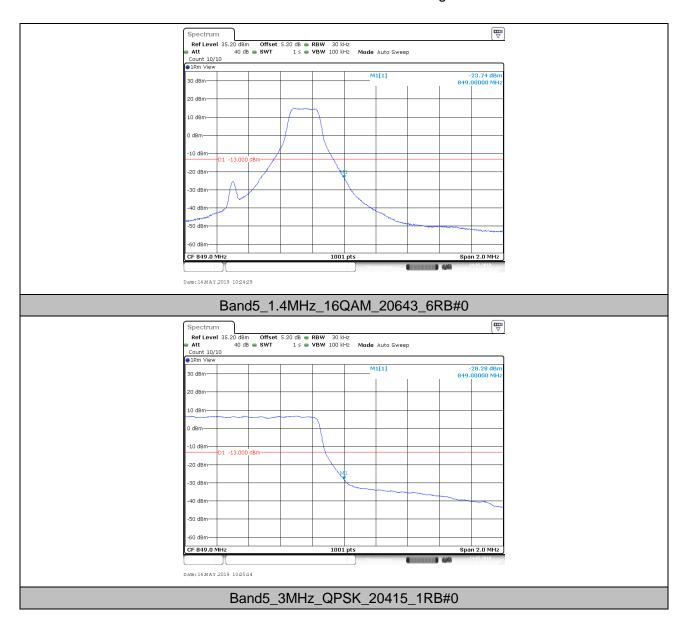
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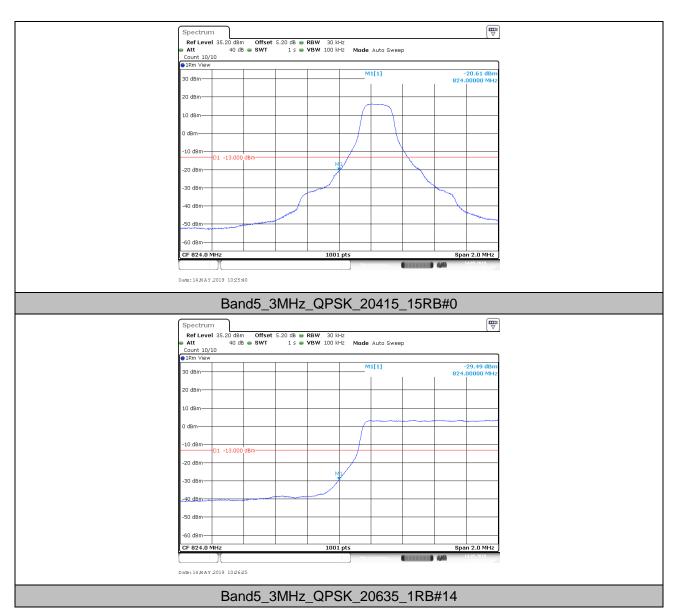
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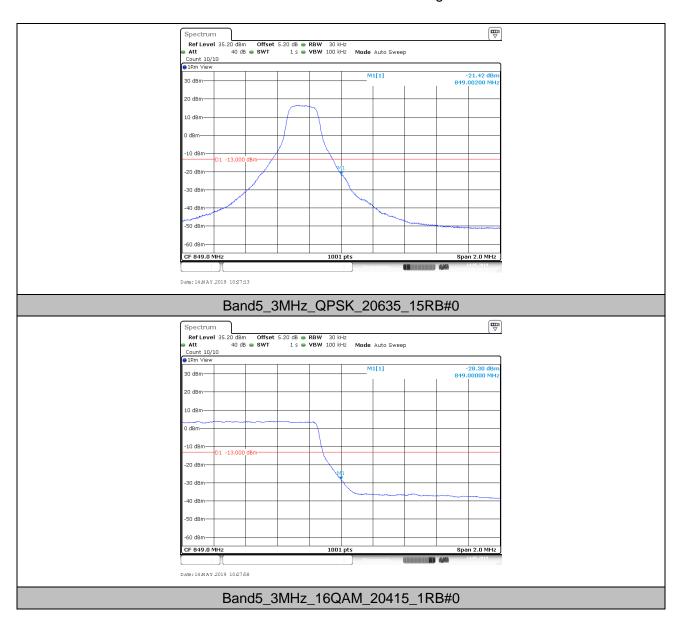
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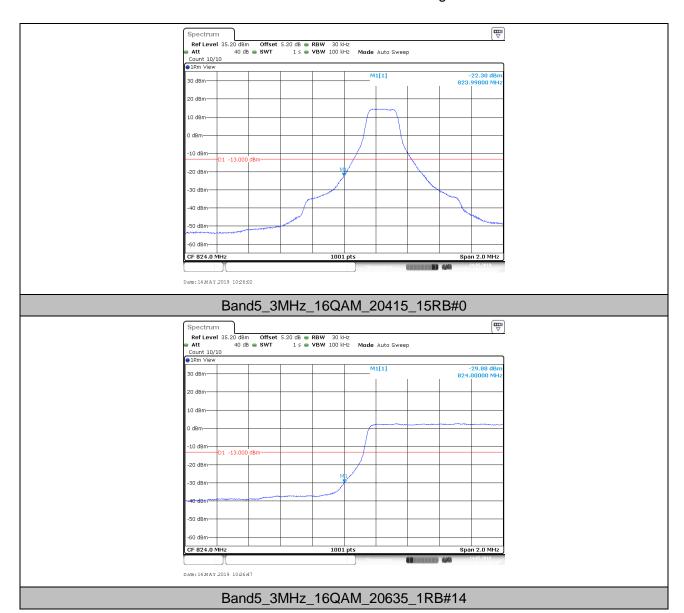
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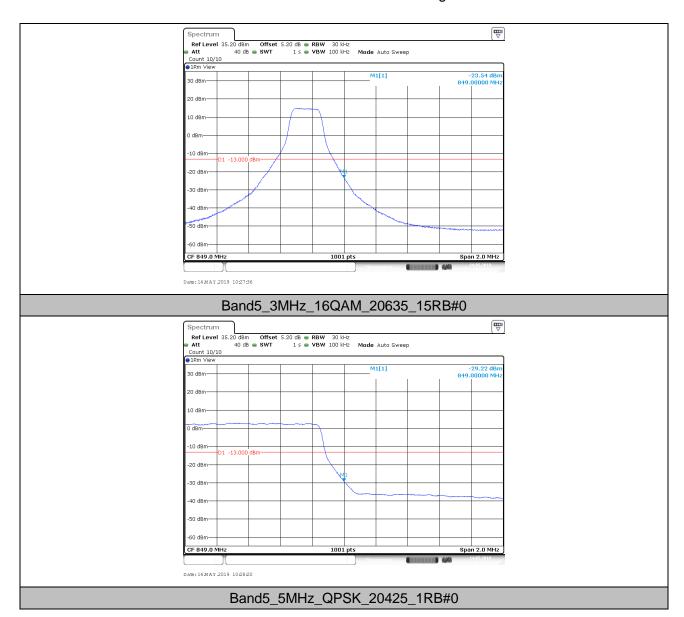
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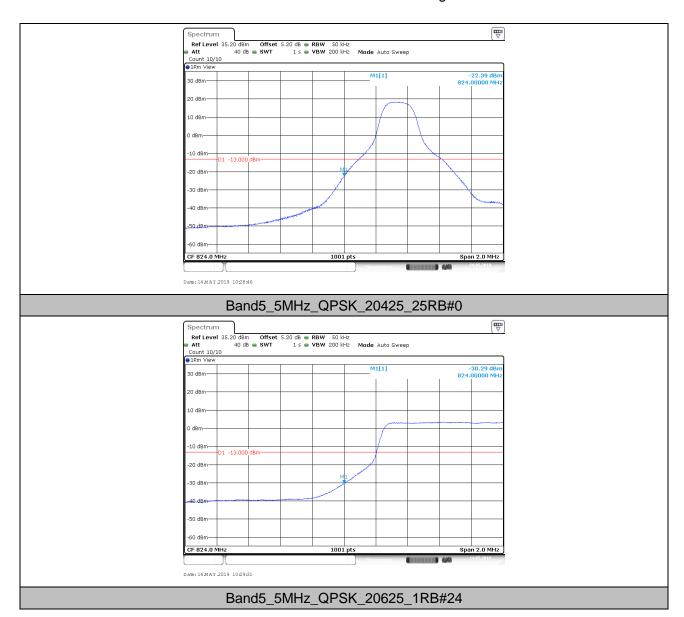
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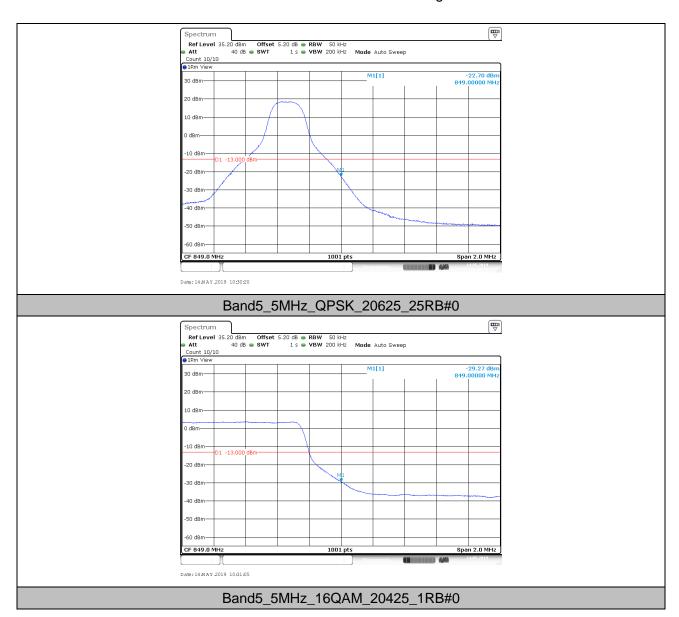
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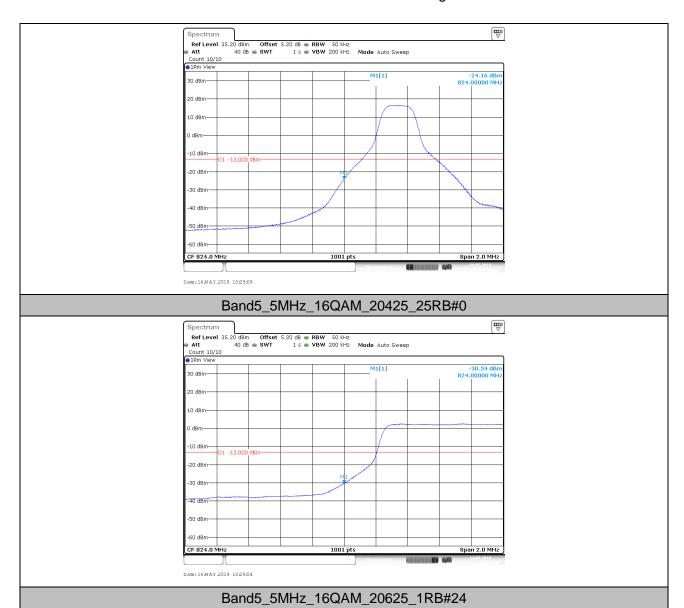
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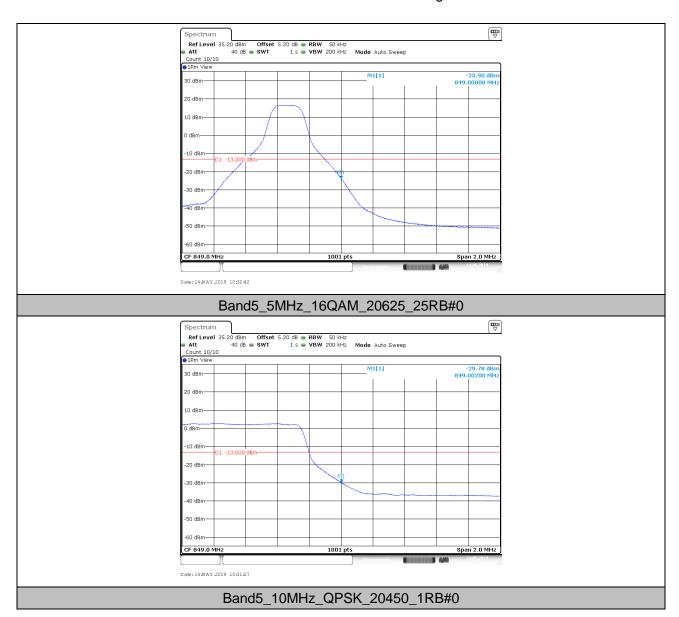
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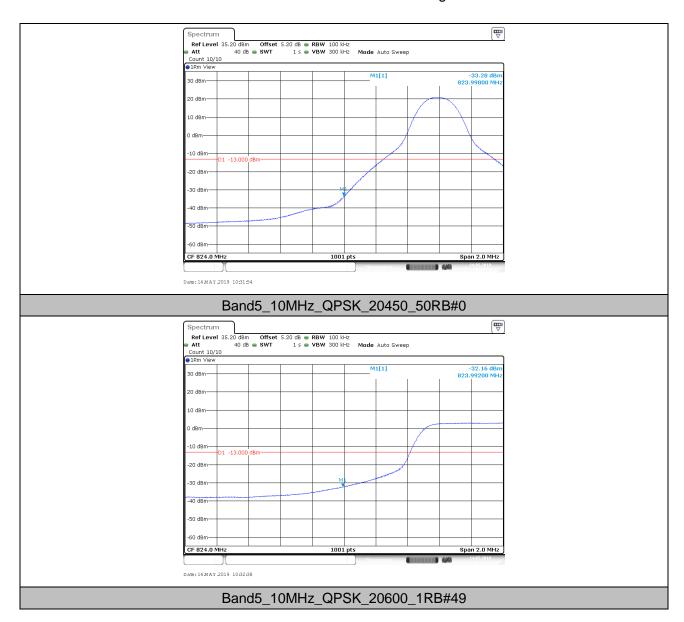
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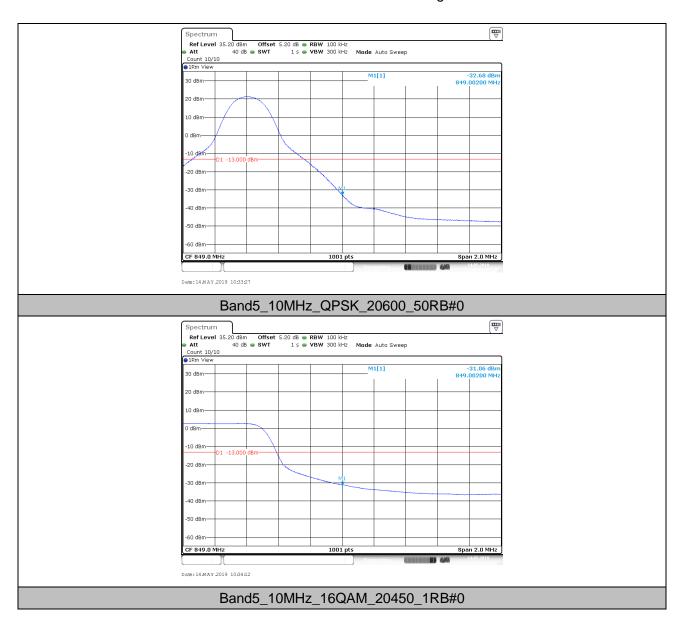
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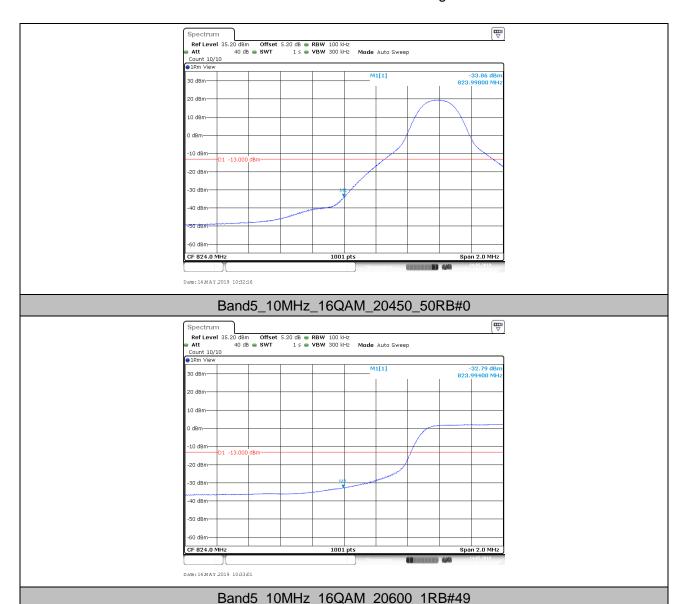
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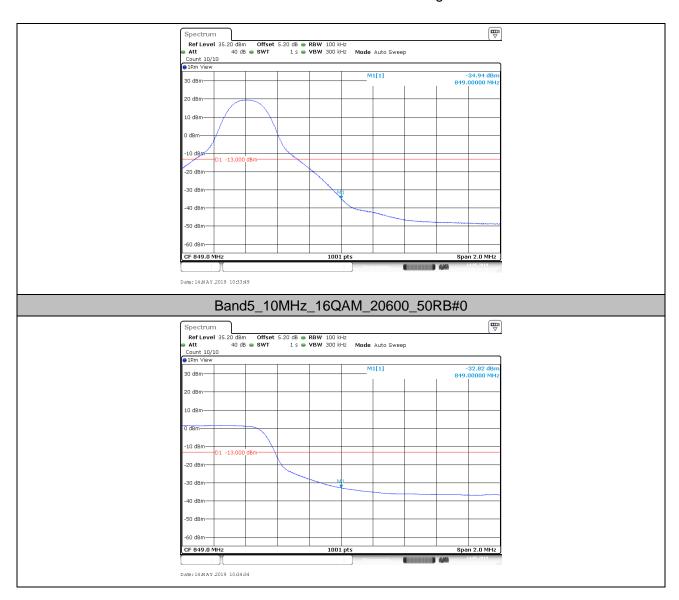
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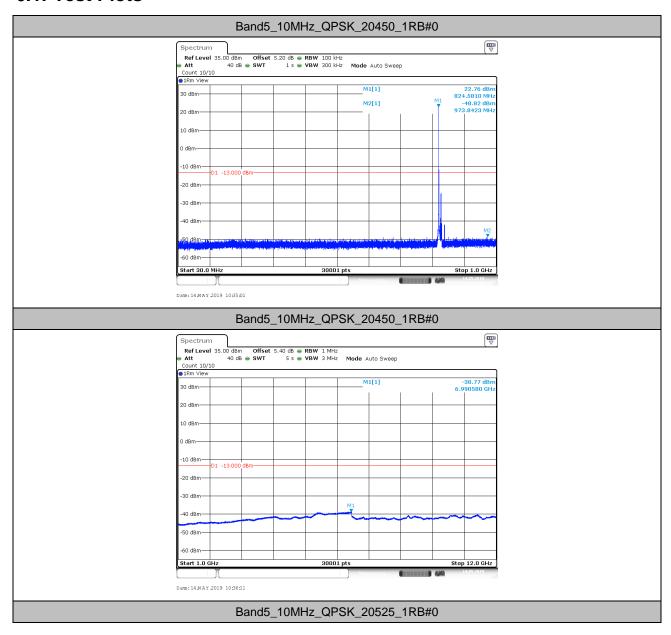
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6. Spurious Emission at Antenna Terminal

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





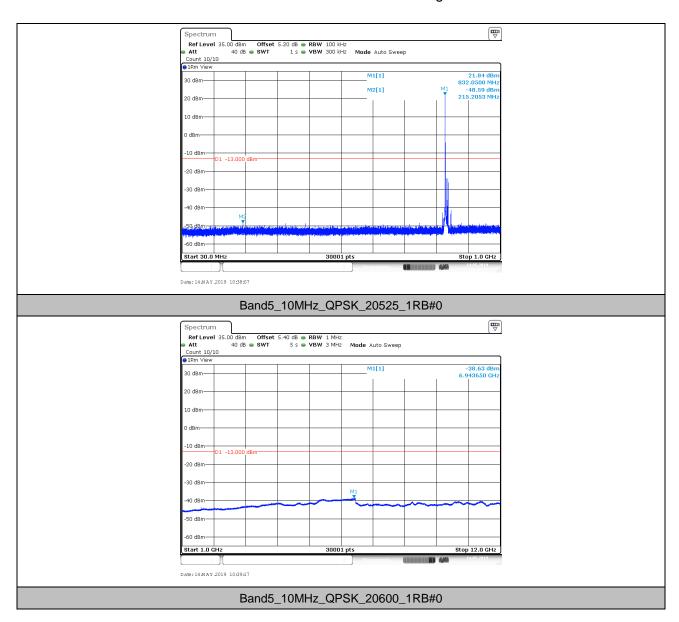
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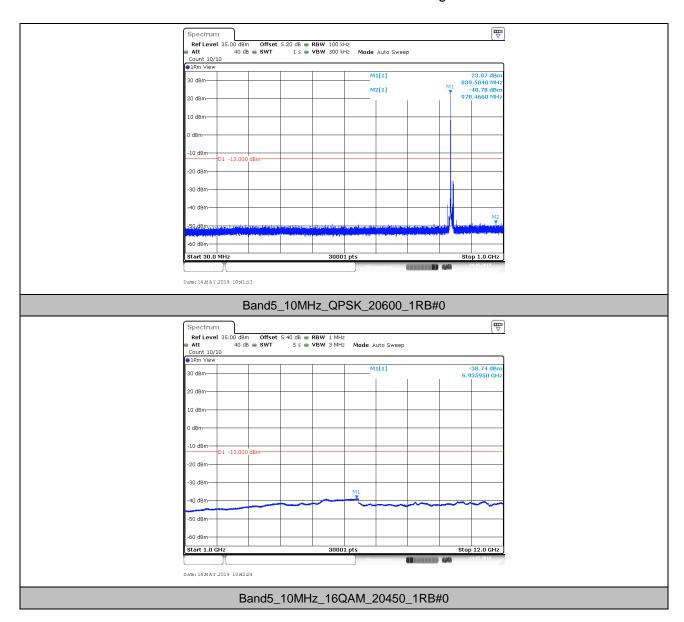
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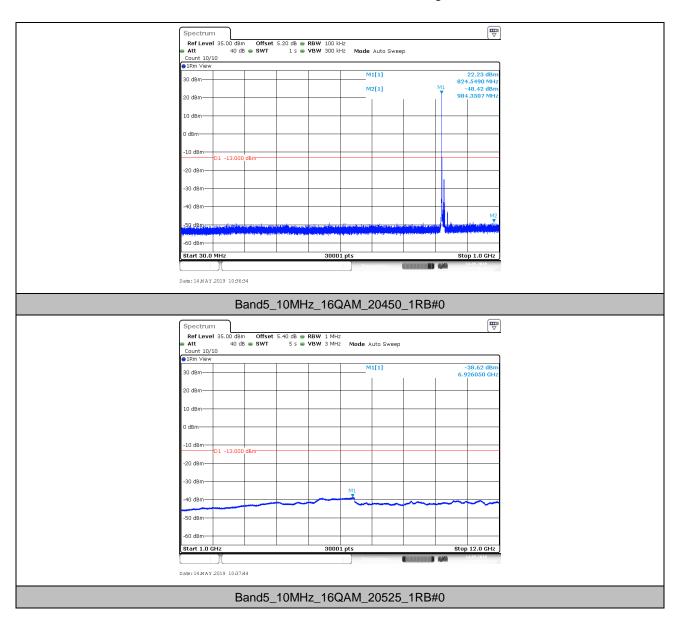
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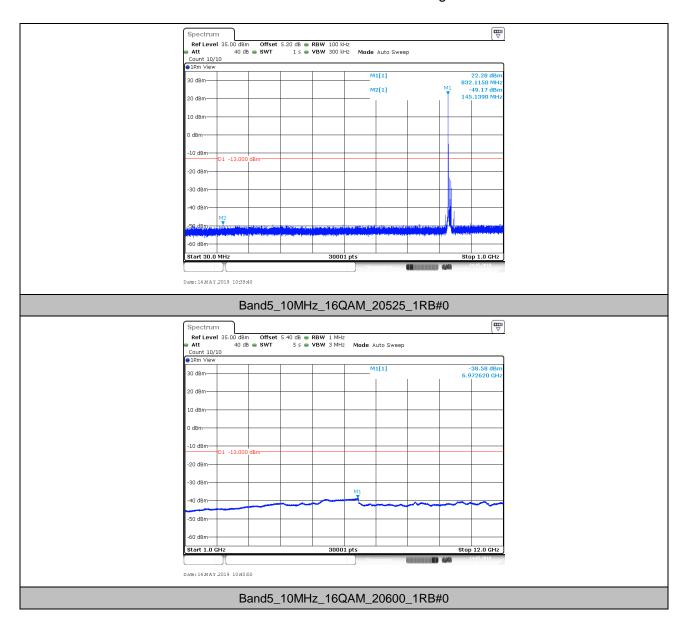
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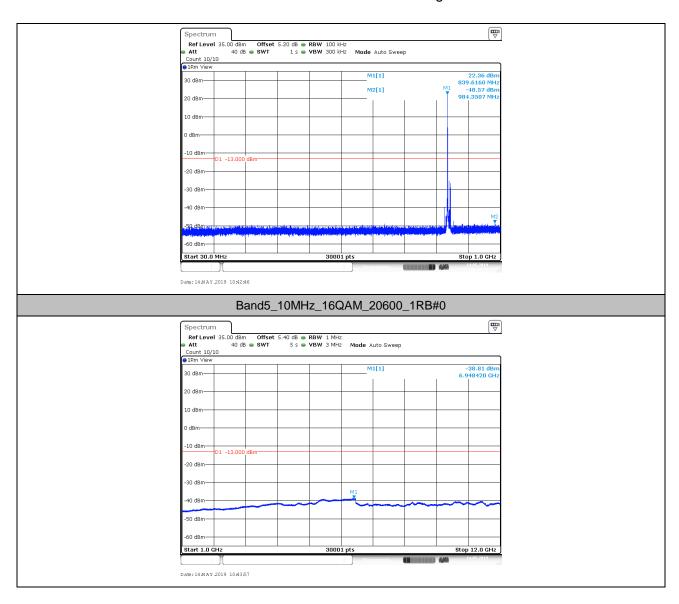






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7. Field Strength of Spurious Radiation

7.1. Test BAND = LTE Band 5

7.1.1.Test Mode =LTE/TM1 10MHz

7.1.1.1. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 64.813333 | -81.45 | -13.00 | 68.45 | Vertical |
| 1649.000000 | -56.27 | -13.00 | 43.27 | Vertical |
| 2473.500000 | -57.34 | -13.00 | 44.34 | Vertical |
| 3297.862500 | -66.77 | -13.00 | 53.77 | Vertical |
| 4122.712500 | -63.19 | -13.00 | 50.19 | Vertical |
| 4947.562500 | -65.43 | -13.00 | 52.43 | Vertical |
| 62.200000 | -77.71 | -13.00 | 64.71 | Horizontal |
| 263.193333 | -87.60 | -13.00 | 74.60 | Horizontal |
| 1649.000000 | -59.84 | -13.00 | 46.84 | Horizontal |
| 2473.500000 | -58.01 | -13.00 | 45.01 | Horizontal |
| 3298.350000 | -65.22 | -13.00 | 52.22 | Horizontal |
| 4122.712500 | -64.73 | -13.00 | 51.73 | Horizontal |

7.1.1.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 63.693333 | -81.73 | -13.00 | 68.73 | Vertical |
| 1664.000000 | -57.65 | -13.00 | 44.65 | Vertical |
| 2496.000000 | -56.17 | -13.00 | 43.17 | Vertical |
| 3328.087500 | -67.07 | -13.00 | 54.07 | Vertical |
| 4160.250000 | -61.32 | -13.00 | 48.32 | Vertical |
| 4992.412500 | -63.54 | -13.00 | 50.54 | Vertical |
| 62.620000 | -77.92 | -13.00 | 64.92 | Horizontal |
| 1664.000000 | -59.21 | -13.00 | 46.21 | Horizontal |
| 2495.500000 | -58.48 | -13.00 | 45.48 | Horizontal |
| 3328.087500 | -63.25 | -13.00 | 50.25 | Horizontal |
| 4160.250000 | -61.32 | -13.00 | 48.32 | Horizontal |
| 4992.412500 | -64.45 | -13.00 | 51.45 | Horizontal |



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7.1.1.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 65.093333 | -81.50 | -13.00 | 68.50 | Vertical |
| 124.966667 | -87.19 | -13.00 | 74.19 | Vertical |
| 1679.000000 | -56.35 | -13.00 | 43.35 | Vertical |
| 2518.500000 | -57.96 | -13.00 | 44.96 | Vertical |
| 3358.312500 | -66.50 | -13.00 | 53.50 | Vertical |
| 4197.787500 | -62.25 | -13.00 | 49.25 | Vertical |
| 61.780000 | -78.04 | -13.00 | 65.04 | Horizontal |
| 300.293333 | -86.00 | -13.00 | 73.00 | Horizontal |
| 1679.000000 | -56.16 | -13.00 | 43.16 | Horizontal |
| 2518.500000 | -58.20 | -13.00 | 45.20 | Horizontal |
| 3358.312500 | -65.61 | -13.00 | 52.61 | Horizontal |
| 4197.787500 | -64.84 | -13.00 | 51.84 | Horizontal |

Remark:

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.

We have tested all modulation and all Bandwidth, but only the worst case data presented in this report.



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8. Frequency Stability

8.1. Frequency Vs Voltage

| | Voltage | | | | | | | | | | | |
|-----------------|-----------|------------|---------|-----------|---------|-------------|-----------|-----------|-------|---------|--|--|
| BAND | Bandwidth | Modulation | Channel | RB | Voltage | Temperature | Deviation | Deviation | Limit | Verdict | | |
| <i>D7</i> (110) | Banawidan | Modulation | Onamoi | Configure | [Vdc] | (°C) | (Hz) | (ppm) | (ppm) | Vordiot | | |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | VL | NT | -0.20 | -0.000241 | ±2.5 | PASS | | |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | VN | NT | -1.00 | -0.001206 | ±2.5 | PASS | | |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | VH | NT | -1.50 | -0.001809 | ±2.5 | PASS | | |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | VL | NT | -1.00 | -0.001195 | ±2.5 | PASS | | |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | VN | NT | -1.00 | -0.001195 | ±2.5 | PASS | | |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | VH | NT | -0.80 | -0.000956 | ±2.5 | PASS | | |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | VL | NT | -3.00 | -0.003555 | ±2.5 | PASS | | |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | VN | NT | -0.30 | -0.000355 | ±2.5 | PASS | | |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | VH | NT | -1.20 | -0.001422 | ±2.5 | PASS | | |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | VL | NT | -0.80 | -0.000965 | ±2.5 | PASS | | |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | VN | NT | -0.20 | -0.000241 | ±2.5 | PASS | | |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | VH | NT | -1.40 | -0.001689 | ±2.5 | PASS | | |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | VL | NT | 0.30 | 0.000359 | ±2.5 | PASS | | |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | VN | NT | -0.30 | -0.000359 | ±2.5 | PASS | | |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | VH | NT | -0.20 | -0.000239 | ±2.5 | PASS | | |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | VL | NT | -0.60 | -0.000711 | ±2.5 | PASS | | |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | VN | NT | -0.10 | -0.000118 | ±2.5 | PASS | | |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | VH | NT | -0.90 | -0.001066 | ±2.5 | PASS | | |

8.2. Frequency Vs Temperature

| Temperat | ure | | | | | | | | | |
|----------|------------|------------|----------|-----------|---------|-------------|-----------|-----------|-------|---------|
| BAND | DAND D LIN | Modulation | Channel | RB | Voltage | Temperature | Deviation | Deviation | Limit | Verdict |
| DAND | Bandwidth | Modulation | Criarine | Configure | [Vdc] | (°C) | (Hz) | (ppm) | (ppm) | verdict |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | NV | -30 | -12.93 | -0.015593 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | NV | -20 | 4.77 | 0.005755 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | NV | 0 | -5.02 | -0.006050 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | NV | 10 | 3.60 | 0.004339 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | NV | 20 | -7.03 | -0.008479 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | NV | 30 | -1.97 | -0.002370 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | NV | 40 | -13.12 | -0.015825 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | NV | 50 | -12.92 | -0.015579 | ±2.5 | PASS |



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| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | NV | -30 | 3.45 | 0.004120 | ±2.5 | PASS |
|----------------|-------|-------|----------------|------------------|----|-----|--------|-----------|------|------|
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | NV | -20 | -10.42 | -0.012454 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | NV | 0 | -1.40 | -0.001674 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | NV | 10 | -1.00 | -0.001195 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | NV | 20 | -0.90 | -0.001076 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | NV | 30 | -0.20 | -0.001070 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | NV | 40 | 0.40 | 0.000478 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | NV | 50 | -1.20 | -0.001435 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | NV | -30 | -0.80 | -0.000948 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | NV | -20 | -0.70 | -0.000948 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | NV | 0 | 0.20 | 0.000329 | ±2.5 | PASS |
| | 10MHz | QPSK | | 50RB#0 50RB#0 | NV | 10 | -0.80 | -0.000237 | ±2.5 | PASS |
| Band5 Band5 | 10MHz | QPSK | 20600 20600 | 50RB#0 50RB#0 | NV | 20 | 0.00 | 0.000000 | | PASS |
| | 10MHz | QPSK | 20600 | | NV | 30 | | -0.000118 | ±2.5 | PASS |
| Band5 | | | | 50RB#0 | | | -0.10 | | ±2.5 | |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | NV | 40 | -0.10 | -0.000118 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | NV | 50 | -0.90 | -0.001066 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | NV | -30 | -1.30 | -0.001568 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | NV | -20 | -1.60 | -0.001930 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | NV | 0 | 0.20 | 0.000241 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | NV | 10 | -1.10 | -0.001327 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | NV | 20 | -1.10 | -0.001327 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | NV | 30 | -1.60 | -0.001930 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | NV | 40 | -2.30 | -0.002774 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | NV | 50 | -0.40 | -0.000483 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | -30 | -0.40 | -0.000478 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | -20 | -0.20 | -0.000239 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | 0 | -0.20 | -0.000239 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | 10 | -0.70 | -0.000837 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | 20 | -0.70 | -0.000837 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | 30 | -0.70 | -0.000837 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | 40 | -0.50 | -0.000598 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | 50 | -1.00 | -0.001195 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | -30 | -1.90 | -0.002251 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | -20 | -0.30 | -0.000355 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | 0 | -0.40 | -0.000474 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | 10 | -0.40 | -0.000474 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | 20 | -1.10 | -0.001303 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | 30 | 0.20 | 0.000237 | ±2.5 | PASS |



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| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | 40 | -0.80 | -0.000948 | ±2.5 | PASS |
|-------|-------|-------|-------|--------|----|----|-------|-----------|------|------|
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | 50 | -0.40 | -0.000474 | ±2.5 | PASS |

The End



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