

Appendix B

E-UTRA Band 5



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1 Effective (Isotropic) Radiated Power

1.1. Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Conducted Power(dBm) | ERP (dBm) | Limit (dBm) | Verdict |
|-------|-----------|------------|---------|------------------|----------------------|-----------|-------------|---------|
| Band5 | 1.4MHz | QPSK | 20407 | 1RB#0 | 23.15 | 21.50 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 1RB#2 | 23.28 | 21.63 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 1RB#5 | 23.14 | 21.49 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 3RB#0 | 23.26 | 21.61 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 3RB#1 | 23.31 | 21.66 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 3RB#3 | 23.27 | 21.62 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20407 | 6RB#0 | 22.28 | 20.63 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 1RB#0 | 23.16 | 21.51 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 1RB#5 | 23.17 | 21.52 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 1RB#2 | 23.30 | 21.65 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 3RB#0 | 23.27 | 21.62 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 3RB#1 | 23.34 | 21.69 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 3RB#3 | 23.27 | 21.62 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 6RB#0 | 22.27 | 20.62 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 1RB#5 | 23.12 | 21.47 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 1RB#0 | 23.11 | 21.46 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 1RB#2 | 23.26 | 21.61 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 3RB#0 | 23.24 | 21.59 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 3RB#1 | 23.29 | 21.64 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 3RB#3 | 23.23 | 21.58 | 38.45 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 6RB#0 | 22.24 | 20.59 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 1RB#0 | 22.27 | 20.62 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 1RB#2 | 22.46 | 20.81 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 1RB#5 | 22.41 | 20.76 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 3RB#1 | 22.40 | 20.75 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 3RB#0 | 22.23 | 20.58 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 3RB#3 | 22.32 | 20.67 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0 | 21.38 | 19.73 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 1RB#0 | 22.39 | 20.74 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 1RB#2 | 22.54 | 20.89 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 1RB#5 | 22.37 | 20.72 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 3RB#3 | 22.36 | 20.71 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 3RB#0 | 22.42 | 20.77 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 3RB#1 | 22.37 | 20.72 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0 | 21.33 | 19.68 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#2 | 22.51 | 20.86 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#0 | 22.30 | 20.65 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 1RB#5 | 22.38 | 20.73 | 38.45 | PASS |

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| | | | | | | | | |
|-------|--------|-------|-------|--------|-------|-------|-------|------|
| Band5 | 1.4MHz | 16QAM | 20643 | 3RB#0 | 22.36 | 20.71 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 3RB#1 | 22.39 | 20.74 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 3RB#3 | 22.26 | 20.61 | 38.45 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0 | 21.30 | 19.65 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 1RB#8 | 23.19 | 21.54 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 1RB#14 | 23.21 | 21.56 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 1RB#0 | 23.21 | 21.56 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 8RB#0 | 22.23 | 20.58 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 8RB#4 | 22.27 | 20.62 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 8RB#7 | 22.23 | 20.58 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 15RB#0 | 22.24 | 20.59 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 1RB#0 | 23.22 | 21.57 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 1RB#14 | 23.19 | 21.54 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 1RB#8 | 23.23 | 21.58 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 8RB#7 | 22.24 | 20.59 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 8RB#0 | 22.25 | 20.60 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 8RB#4 | 22.28 | 20.63 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 15RB#0 | 22.24 | 20.59 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 1RB#8 | 23.17 | 21.52 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 1RB#0 | 23.18 | 21.53 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 1RB#14 | 23.16 | 21.51 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 8RB#0 | 22.22 | 20.57 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 8RB#7 | 22.20 | 20.55 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 8RB#4 | 22.23 | 20.58 | 38.45 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 15RB#0 | 22.21 | 20.56 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#14 | 22.47 | 20.82 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#0 | 22.43 | 20.78 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 1RB#8 | 22.34 | 20.69 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 8RB#7 | 21.33 | 19.68 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 8RB#4 | 21.34 | 19.69 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 8RB#0 | 21.32 | 19.67 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 15RB#0 | 21.23 | 19.58 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#14 | 22.50 | 20.85 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#0 | 22.51 | 20.86 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 1RB#8 | 22.40 | 20.75 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 8RB#7 | 21.28 | 19.63 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 8RB#0 | 21.32 | 19.67 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 8RB#4 | 21.33 | 19.68 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 15RB#0 | 21.21 | 19.56 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#8 | 22.46 | 20.81 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#0 | 22.41 | 20.76 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 1RB#14 | 22.40 | 20.75 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 8RB#0 | 21.24 | 19.59 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 8RB#4 | 21.29 | 19.64 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 8RB#7 | 21.25 | 19.60 | 38.45 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | 21.22 | 19.57 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 1RB#0 | 23.10 | 21.45 | 38.45 | PASS |

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|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band5 | 5MHz | QPSK | 20425 | 1RB#12 | 23.39 | 21.74 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 1RB#24 | 23.12 | 21.47 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 12RB#0 | 22.22 | 20.57 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 12RB#6 | 22.32 | 20.67 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 12RB#13 | 22.31 | 20.66 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 25RB#0 | 22.28 | 20.63 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 1RB#0 | 23.12 | 21.47 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 1RB#24 | 23.08 | 21.43 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 1RB#12 | 23.40 | 21.75 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 12RB#0 | 22.27 | 20.62 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 12RB#6 | 22.31 | 20.66 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 12RB#13 | 22.23 | 20.58 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 25RB#0 | 22.25 | 20.60 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 1RB#24 | 23.05 | 21.40 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 1RB#0 | 23.07 | 21.42 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 1RB#12 | 23.38 | 21.73 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 12RB#0 | 22.23 | 20.58 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 12RB#6 | 22.29 | 20.64 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 12RB#13 | 22.16 | 20.51 | 38.45 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 25RB#0 | 22.22 | 20.57 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#0 | 22.37 | 20.72 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#12 | 22.53 | 20.88 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 1RB#24 | 22.40 | 20.75 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 12RB#6 | 21.31 | 19.66 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 12RB#0 | 21.27 | 19.62 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 12RB#13 | 21.30 | 19.65 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 25RB#0 | 21.26 | 19.61 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#0 | 22.39 | 20.74 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#12 | 22.55 | 20.90 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 1RB#24 | 22.29 | 20.64 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 12RB#13 | 23.22 | 21.57 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 12RB#0 | 21.29 | 19.64 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 12RB#6 | 21.31 | 19.66 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 25RB#0 | 21.25 | 19.60 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#12 | 22.60 | 20.95 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#0 | 22.27 | 20.62 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 1RB#24 | 22.38 | 20.73 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 12RB#0 | 21.24 | 19.59 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 12RB#6 | 21.29 | 19.64 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 12RB#13 | 21.17 | 19.52 | 38.45 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 25RB#0 | 21.19 | 19.54 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 1RB#49 | 23.23 | 21.58 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 1RB#24 | 23.34 | 21.69 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 1RB#0 | 23.21 | 21.56 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 25RB#0 | 22.32 | 20.67 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 25RB#12 | 22.35 | 20.70 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 25RB#25 | 22.33 | 20.68 | 38.45 | PASS |

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| | | | | | | | | |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | 22.36 | 20.71 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 1RB#0 | 23.24 | 21.59 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 1RB#49 | 23.18 | 21.53 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 1RB#24 | 23.36 | 21.71 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 25RB#25 | 22.33 | 20.68 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 25RB#0 | 22.34 | 20.69 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 25RB#12 | 22.31 | 20.66 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | 22.34 | 20.69 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 1RB#24 | 23.28 | 21.63 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 1RB#0 | 23.21 | 21.56 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 1RB#49 | 23.15 | 21.50 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 25RB#0 | 22.32 | 20.67 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 25RB#25 | 22.26 | 20.61 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 25RB#12 | 22.31 | 20.66 | 38.45 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | 22.30 | 20.65 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#49 | 22.41 | 20.76 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#0 | 22.42 | 20.77 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 1RB#24 | 22.50 | 20.85 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 25RB#25 | 21.32 | 19.67 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 25RB#12 | 21.33 | 19.68 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 25RB#0 | 21.32 | 19.67 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | 21.35 | 19.70 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#49 | 22.45 | 20.80 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#0 | 22.52 | 20.87 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 1RB#24 | 22.64 | 20.99 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 25RB#25 | 21.32 | 19.67 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 25RB#0 | 21.31 | 19.66 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 25RB#12 | 21.32 | 19.67 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | 21.34 | 19.69 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#24 | 22.44 | 20.79 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#0 | 22.40 | 20.75 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 1RB#49 | 22.38 | 20.73 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 25RB#0 | 21.32 | 19.67 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 25RB#12 | 21.28 | 19.63 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 25RB#25 | 21.26 | 19.61 | 38.45 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | 21.30 | 19.65 | 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 [dB]

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

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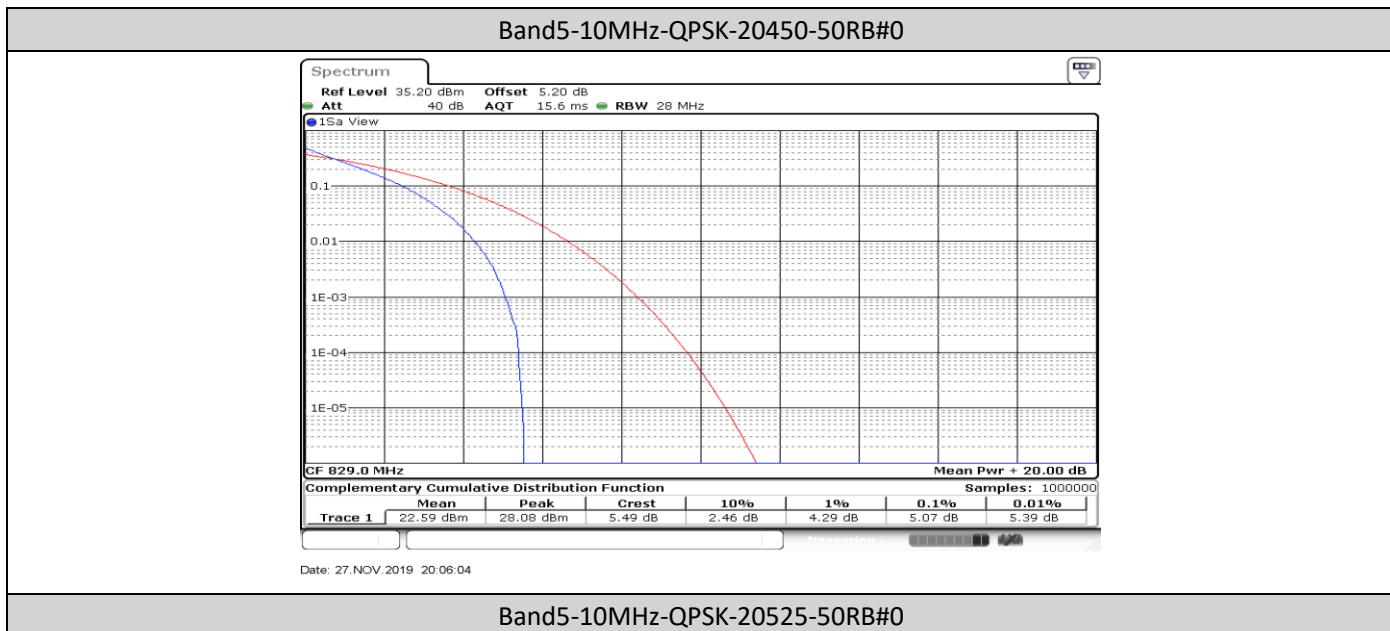
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2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|-------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | 5.07 | 13 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | 5.33 | 13 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | 5.25 | 13 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | 5.88 | 13 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | 6.20 | 13 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | 5.97 | 13 | PASS |

2.2. Test Plots



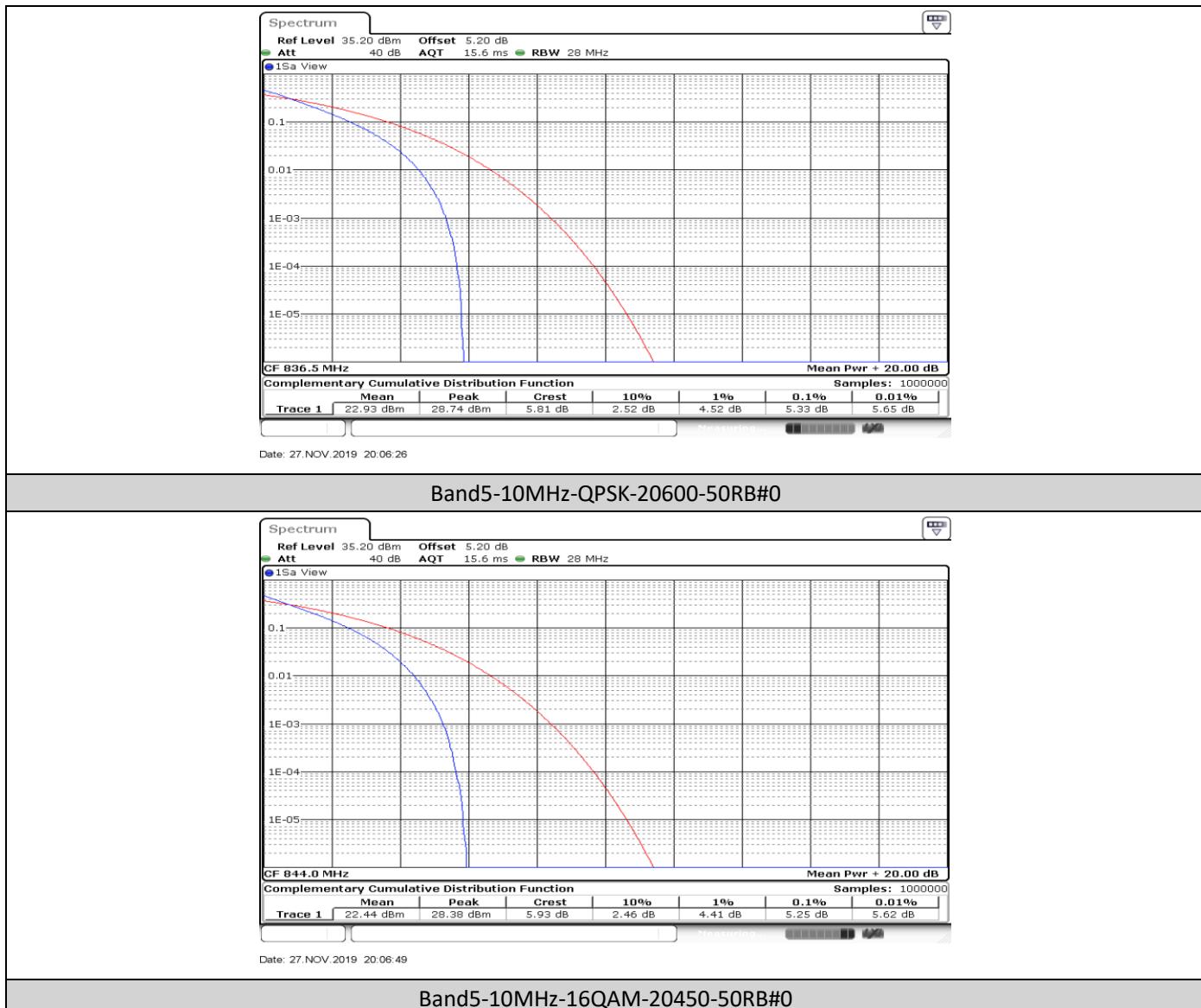
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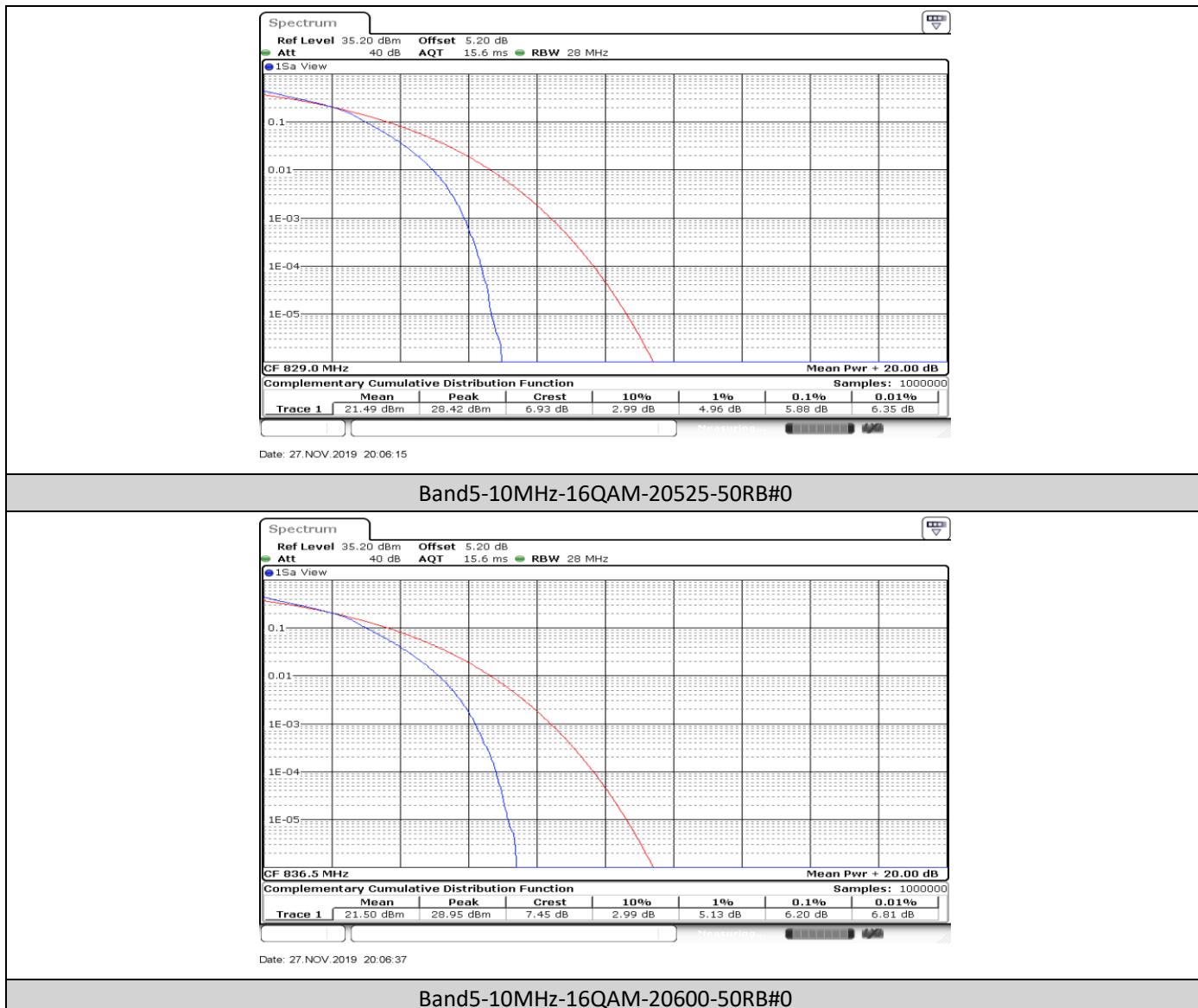
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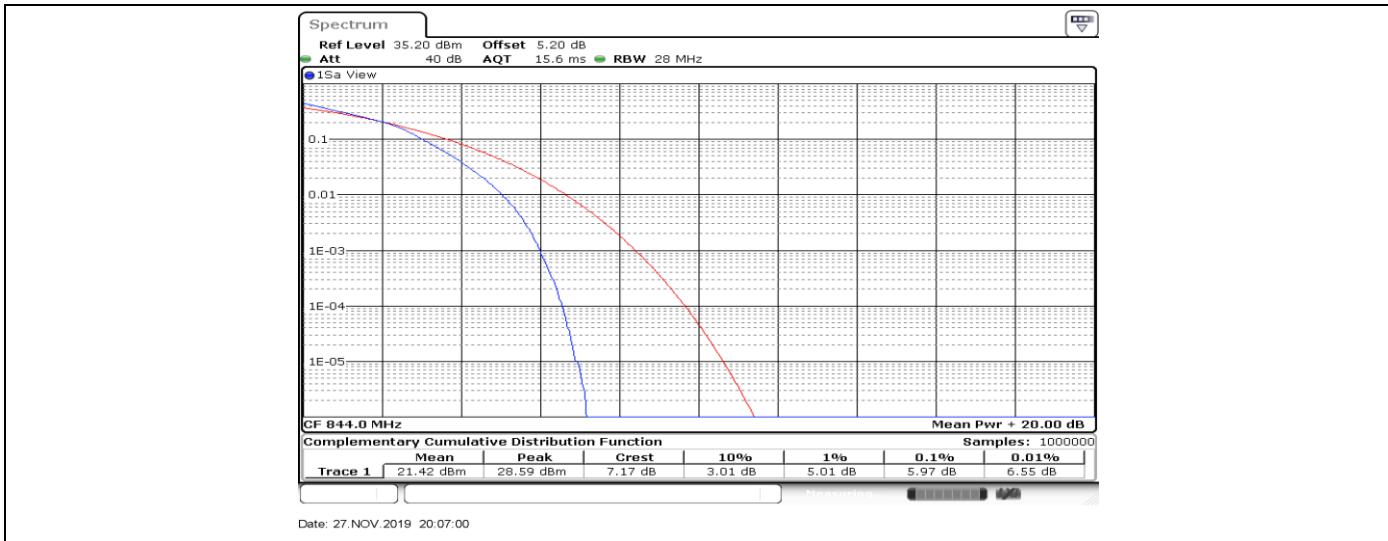
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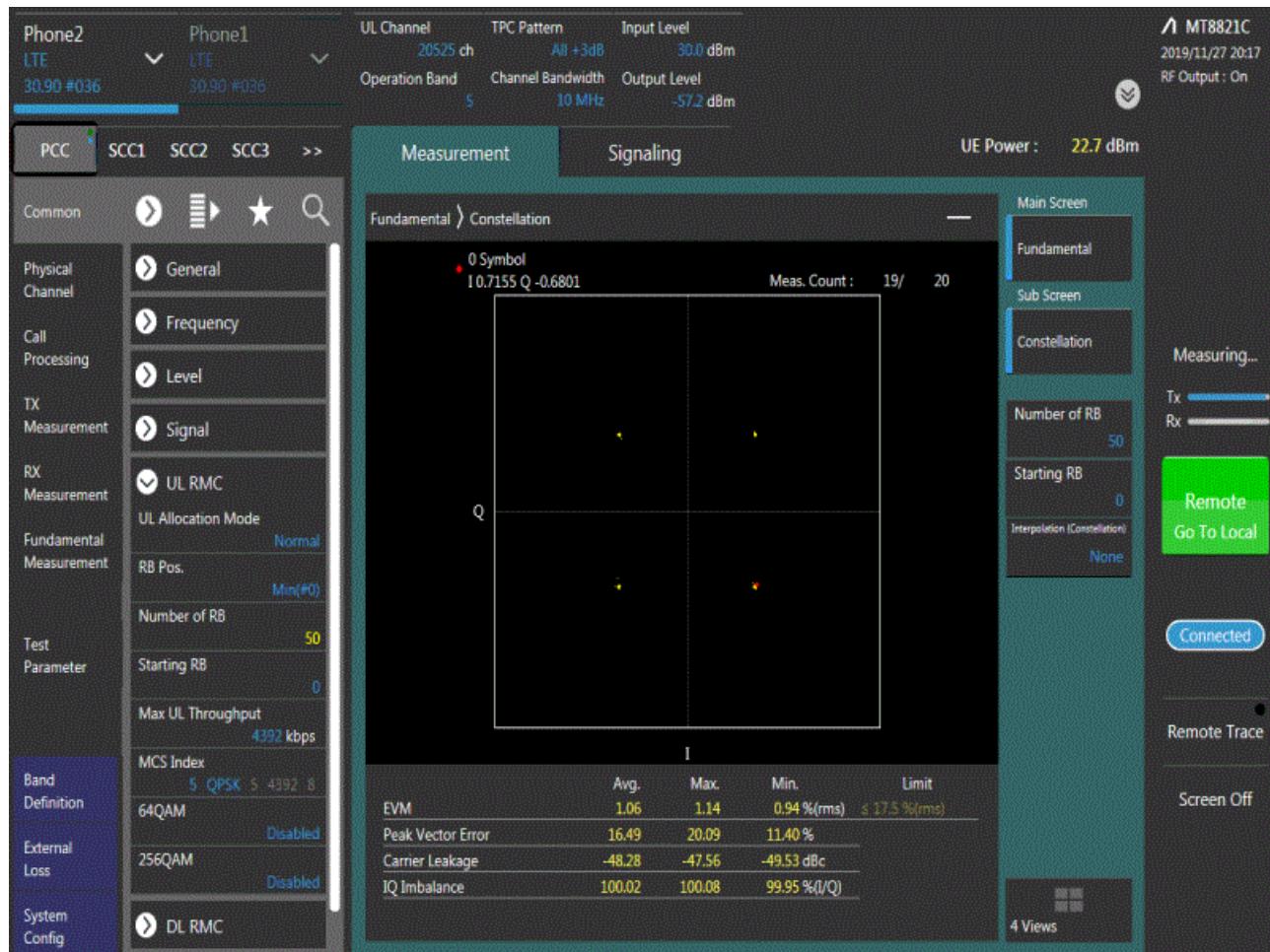


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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 10MHz

3.1.1. Test Channel = MCH



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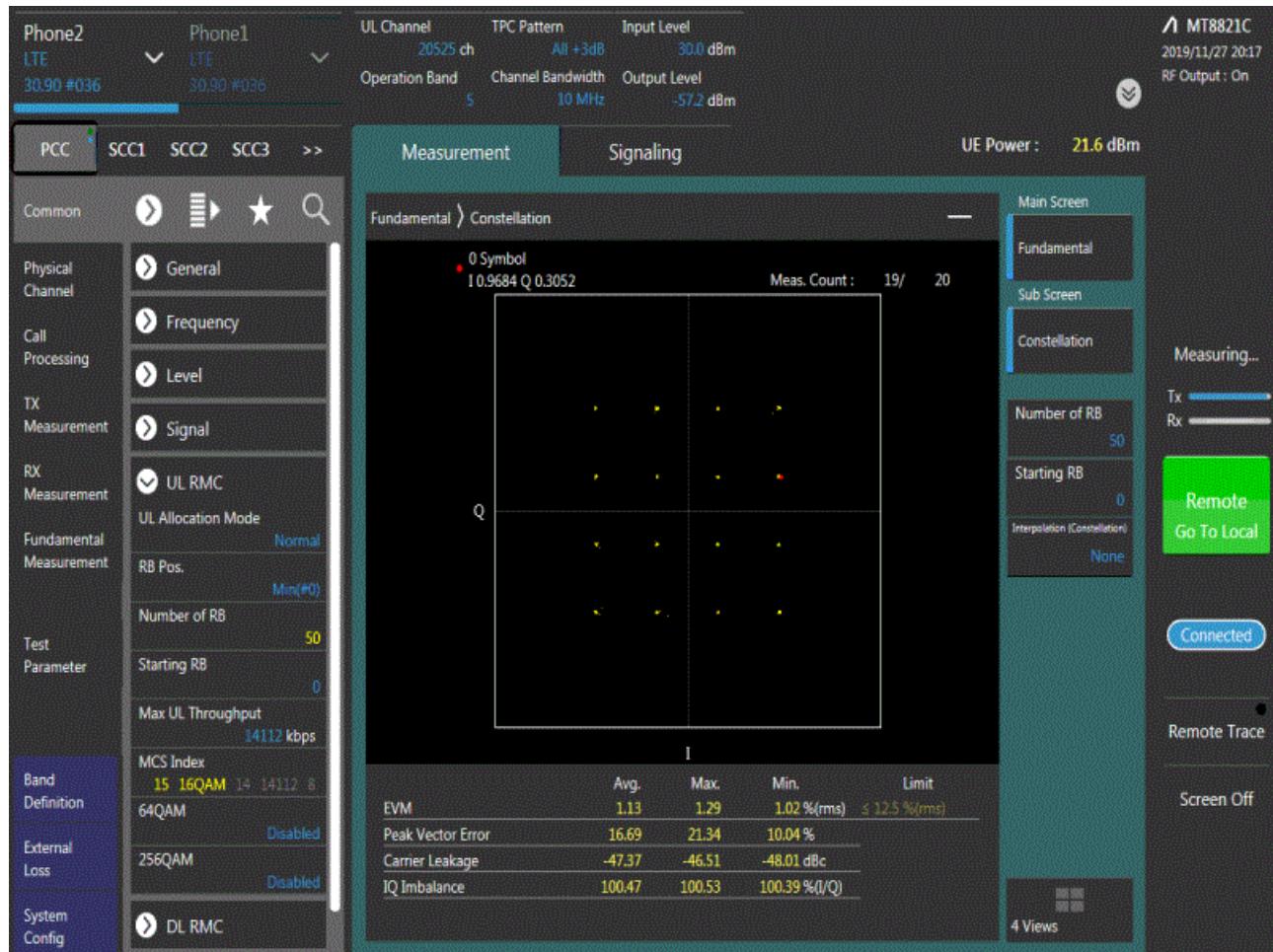


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3.2. Test Mode = LTE /TM2 10MHz

3.2.1. 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 |
|-------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band5 | 1.4MHz | QPSK | 20407 | 6RB#0 | 1.094 | 1.290 | PASS |
| Band5 | 1.4MHz | QPSK | 20525 | 6RB#0 | 1.088 | 1.281 | PASS |
| Band5 | 1.4MHz | QPSK | 20643 | 6RB#0 | 1.091 | 1.287 | PASS |
| Band5 | 1.4MHz | 16QAM | 20407 | 6RB#0 | 1.091 | 1.284 | PASS |
| Band5 | 1.4MHz | 16QAM | 20525 | 6RB#0 | 1.091 | 1.290 | PASS |
| Band5 | 1.4MHz | 16QAM | 20643 | 6RB#0 | 1.091 | 1.281 | PASS |
| Band5 | 3MHz | QPSK | 20415 | 15RB#0 | 2.685 | 2.898 | PASS |
| Band5 | 3MHz | QPSK | 20525 | 15RB#0 | 2.685 | 2.892 | PASS |
| Band5 | 3MHz | QPSK | 20635 | 15RB#0 | 2.685 | 2.886 | PASS |
| Band5 | 3MHz | 16QAM | 20415 | 15RB#0 | 2.673 | 2.868 | PASS |
| Band5 | 3MHz | 16QAM | 20525 | 15RB#0 | 2.685 | 2.880 | PASS |
| Band5 | 3MHz | 16QAM | 20635 | 15RB#0 | 2.667 | 2.880 | PASS |
| Band5 | 5MHz | QPSK | 20425 | 25RB#0 | 4.486 | 5.030 | PASS |
| Band5 | 5MHz | QPSK | 20525 | 25RB#0 | 4.476 | 4.840 | PASS |
| Band5 | 5MHz | QPSK | 20625 | 25RB#0 | 4.486 | 4.950 | PASS |
| Band5 | 5MHz | 16QAM | 20425 | 25RB#0 | 4.505 | 4.970 | PASS |
| Band5 | 5MHz | 16QAM | 20525 | 25RB#0 | 4.496 | 4.890 | PASS |
| Band5 | 5MHz | 16QAM | 20625 | 25RB#0 | 4.486 | 4.910 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | 8.991 | 9.640 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | 8.971 | 9.660 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | 8.971 | 9.560 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | 9.011 | 9.640 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | 8.991 | 9.560 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | 8.951 | 9.560 | PASS |

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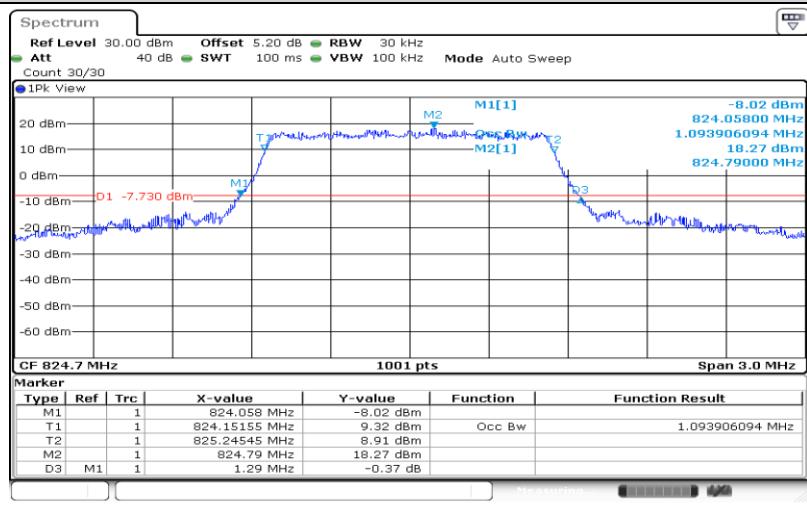
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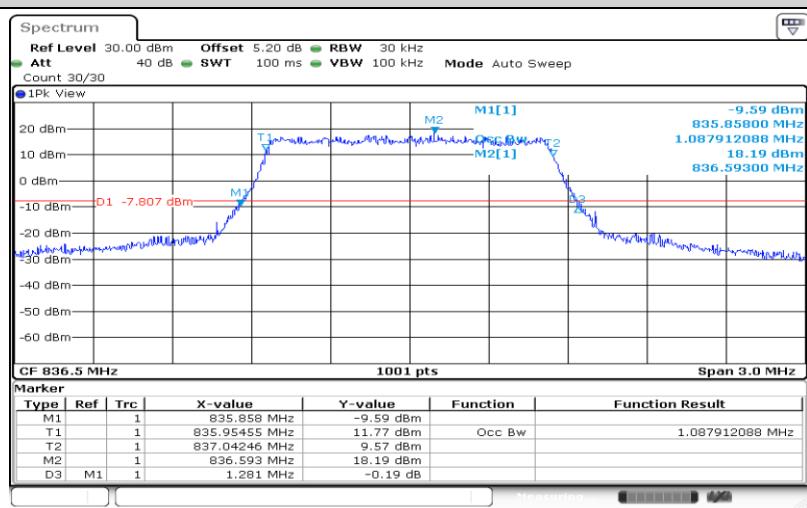
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4.2. Test Plots

Band5-1.4MHz-QPSK-20407-6RB#0-1.094



Band5-1.4MHz-QPSK-20525-6RB#0-1.088



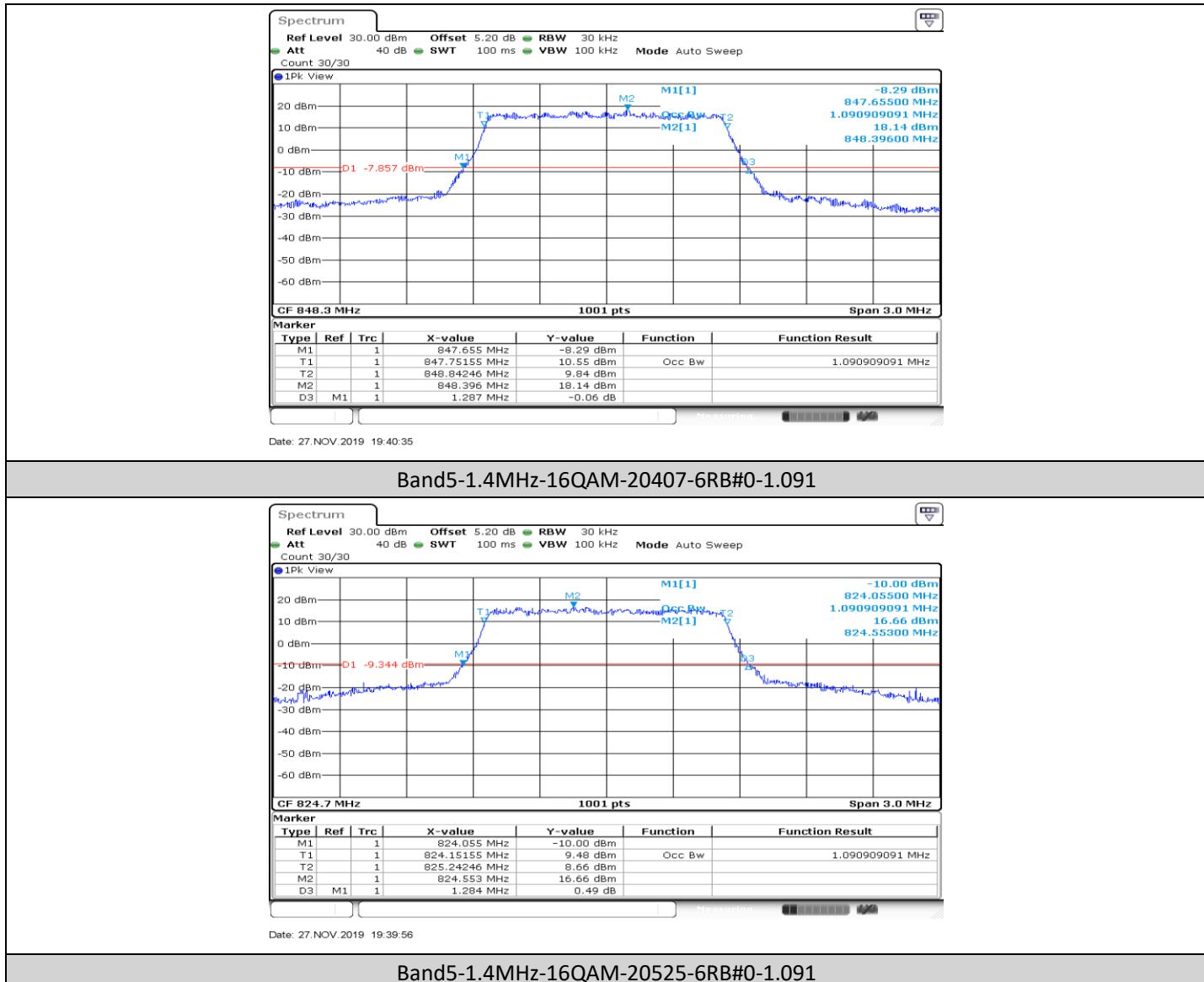
Band5-1.4MHz-QPSK-20643-6RB#0-1.091

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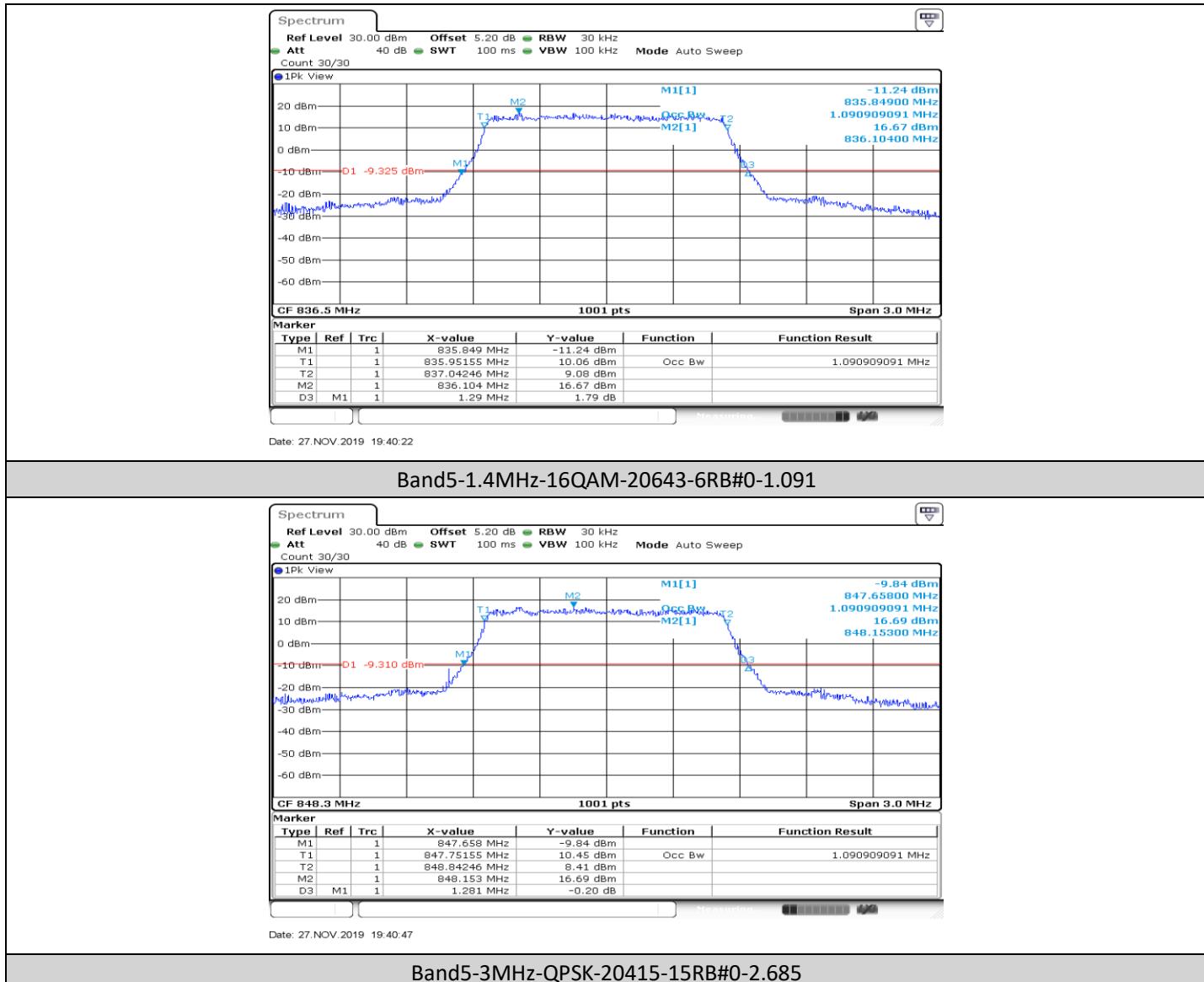
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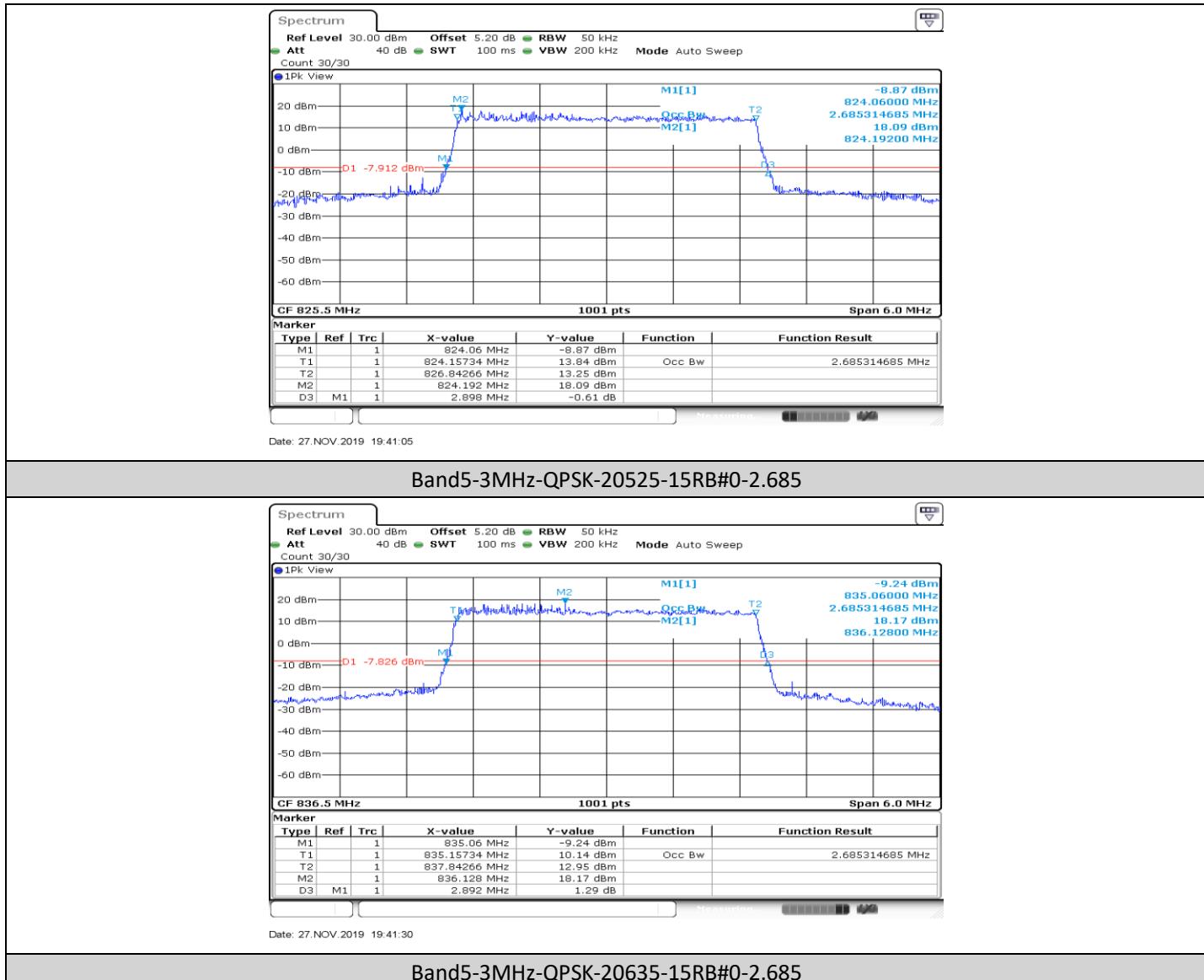
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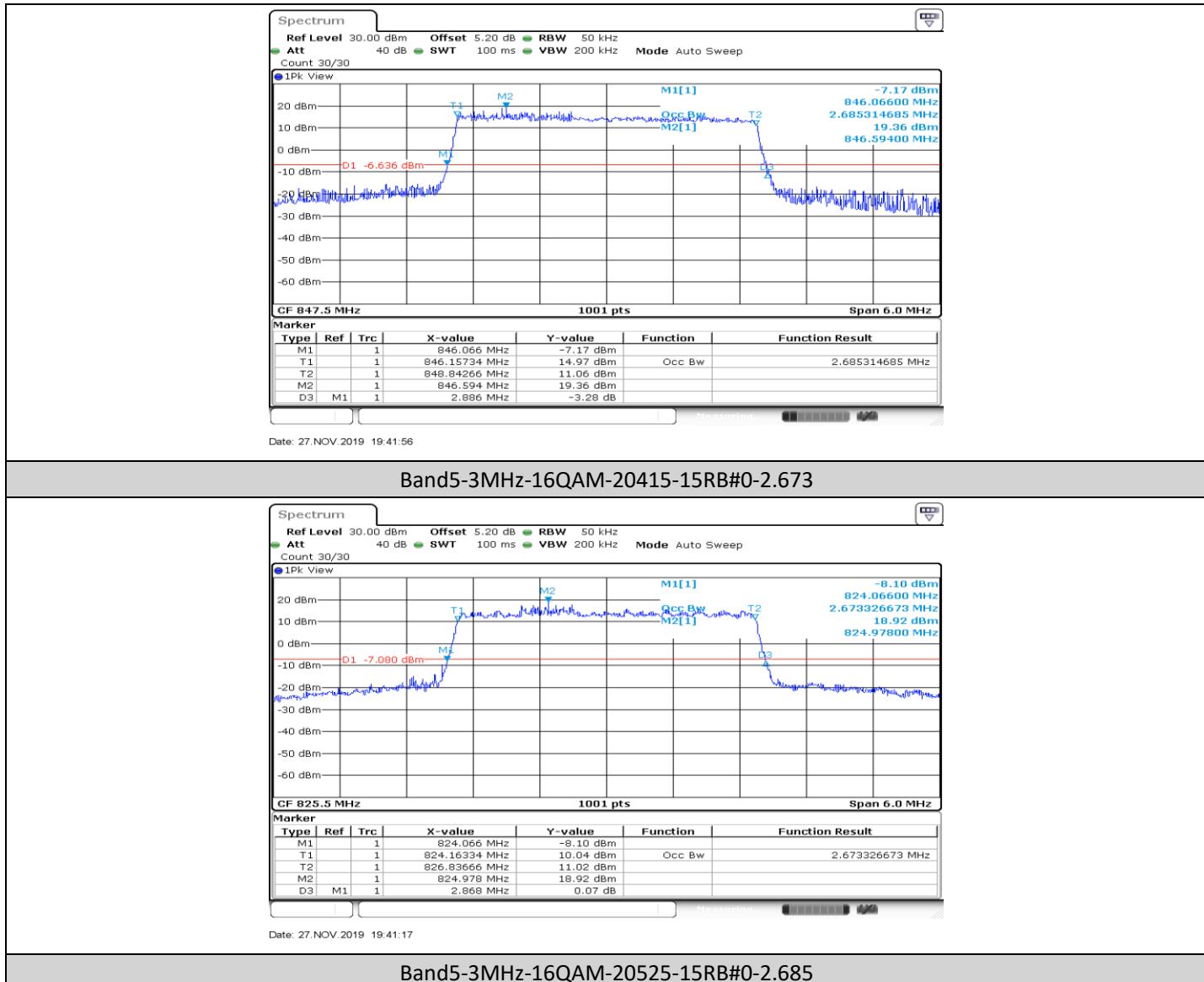
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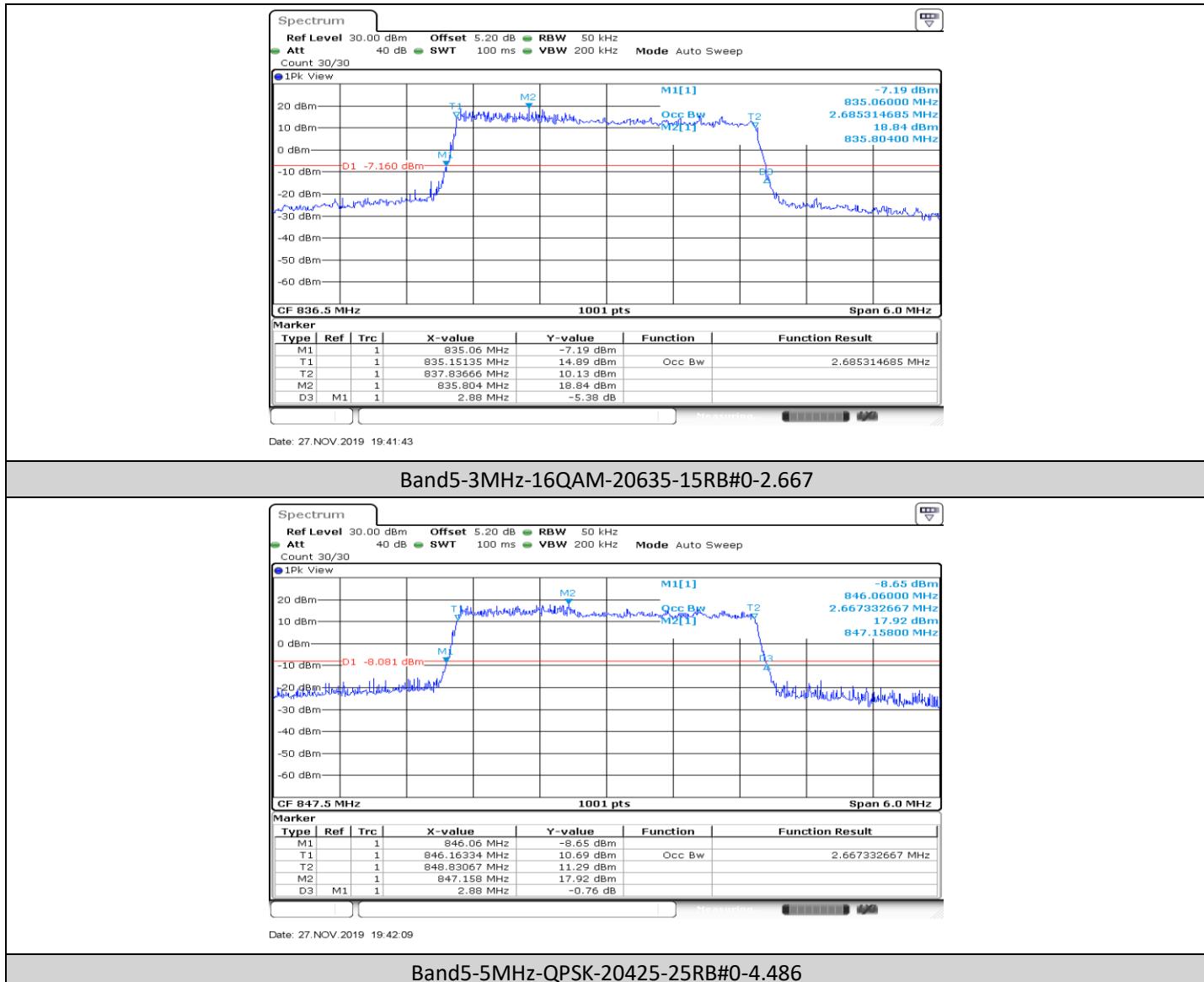
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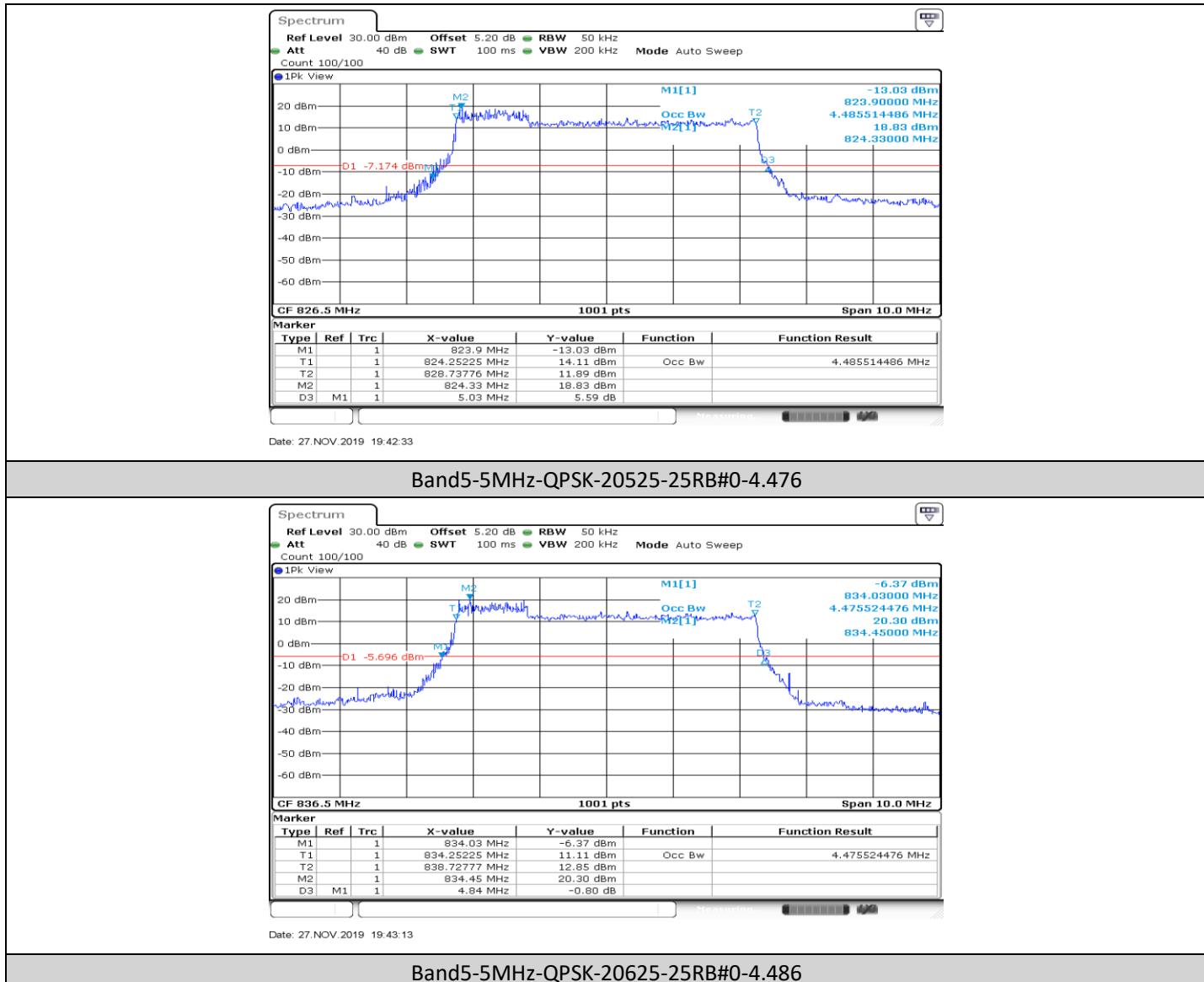
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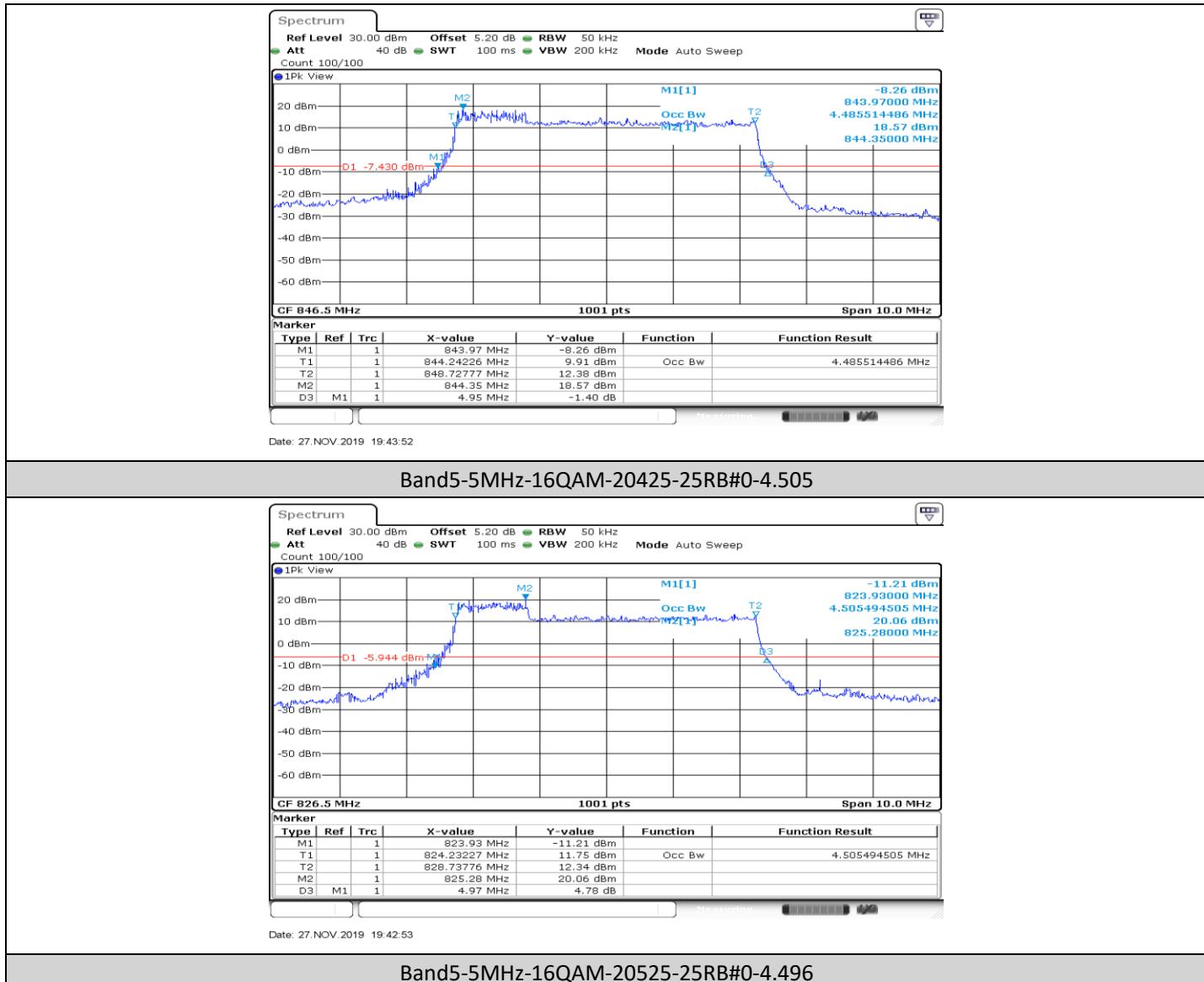


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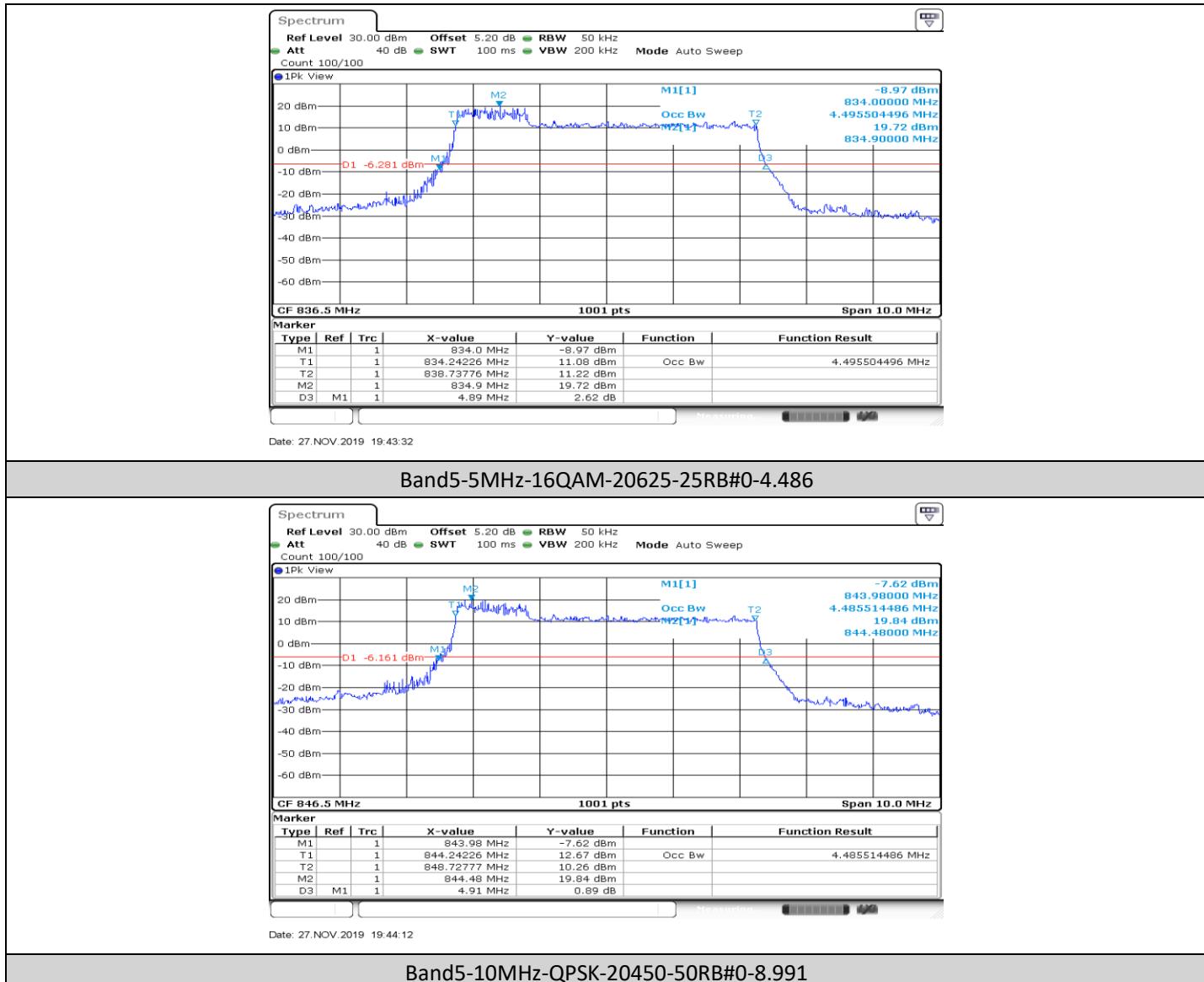


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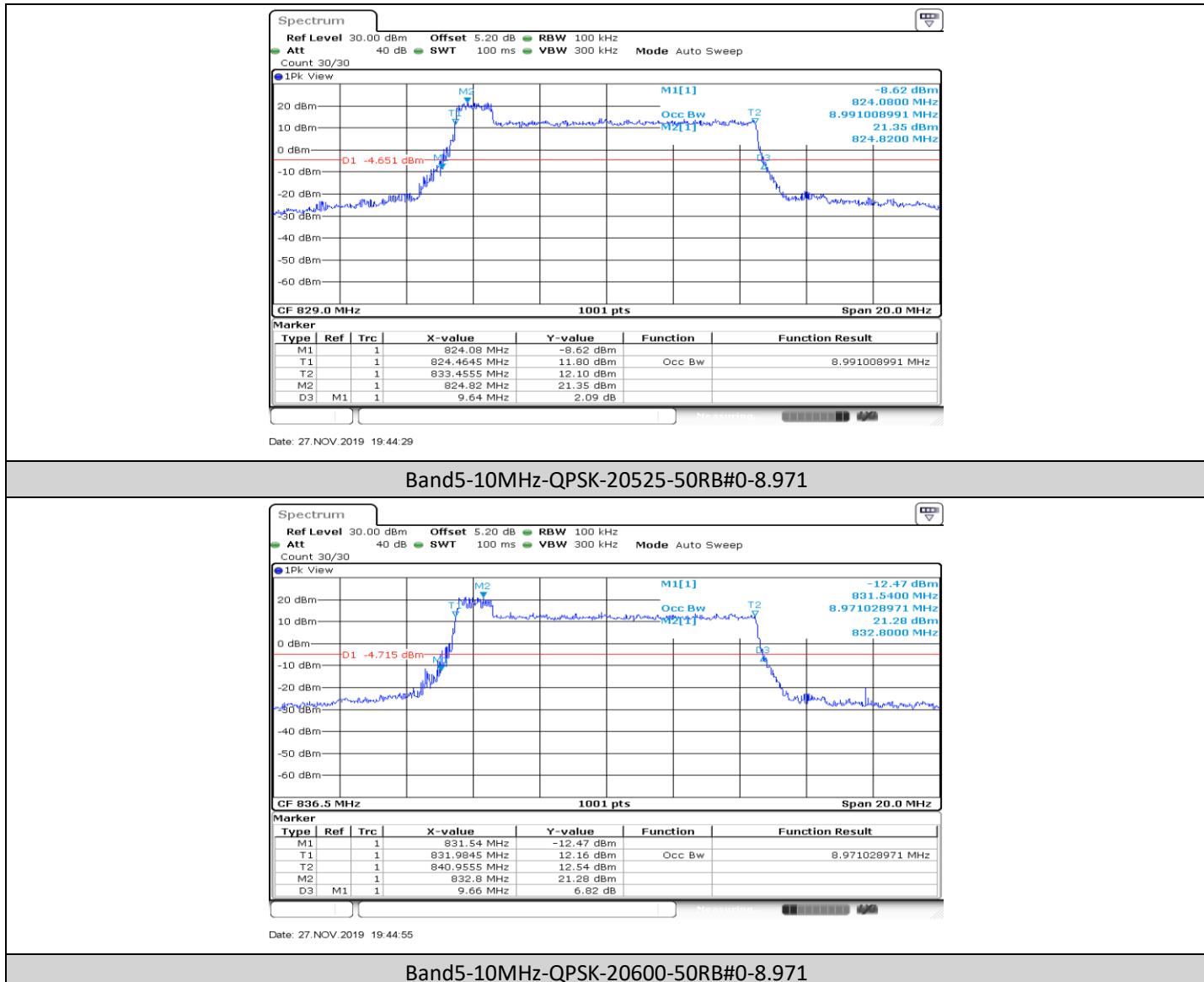


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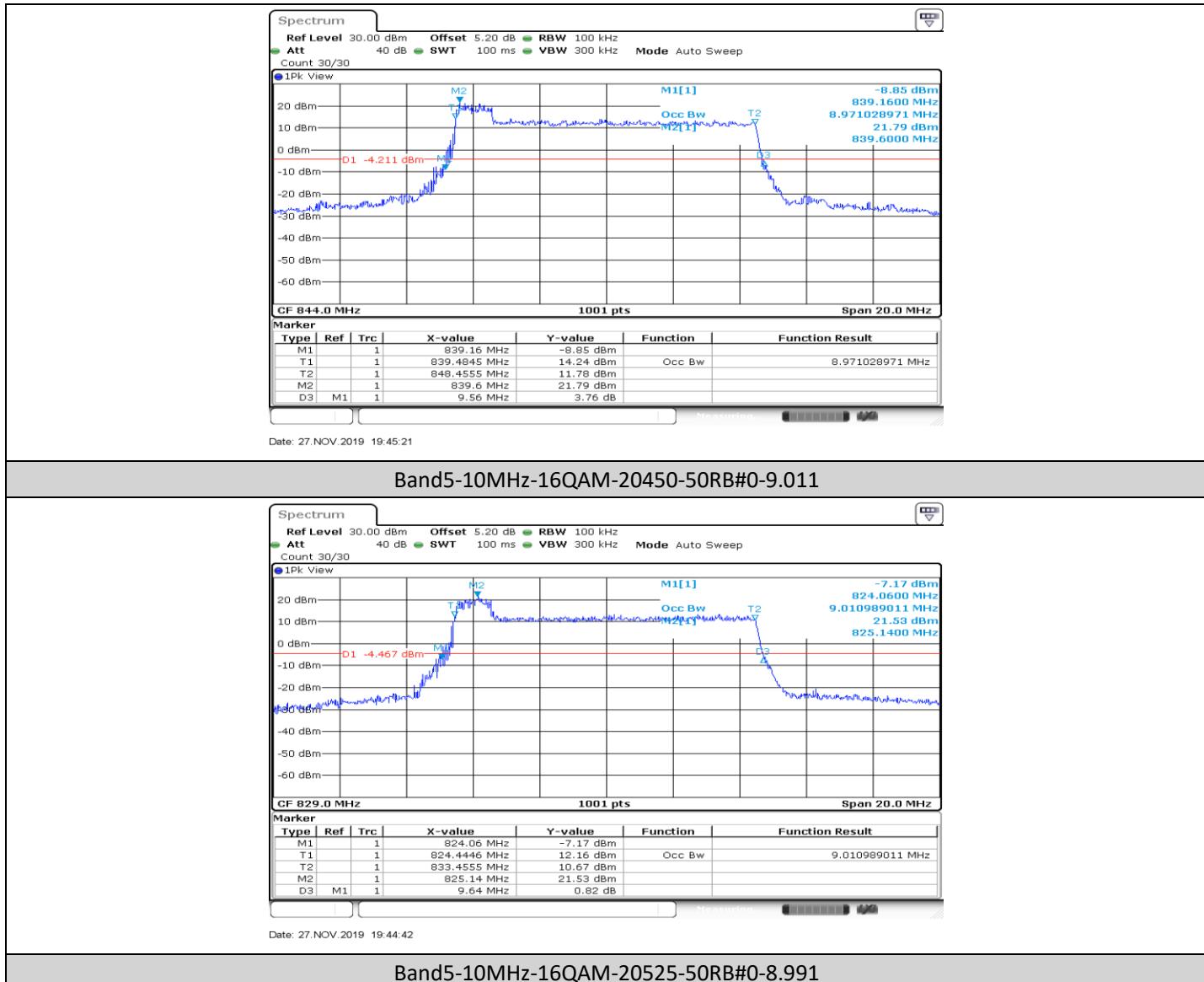
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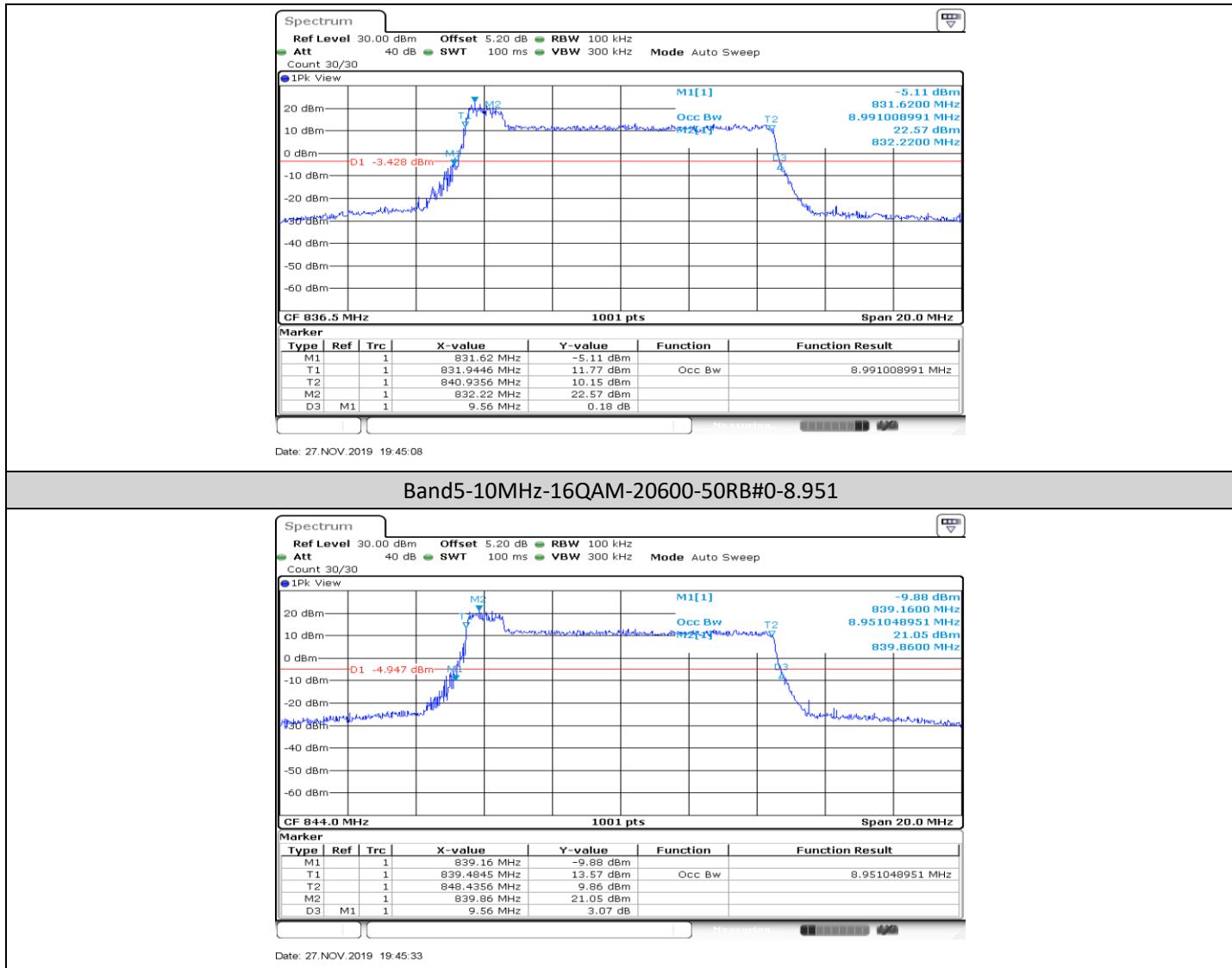


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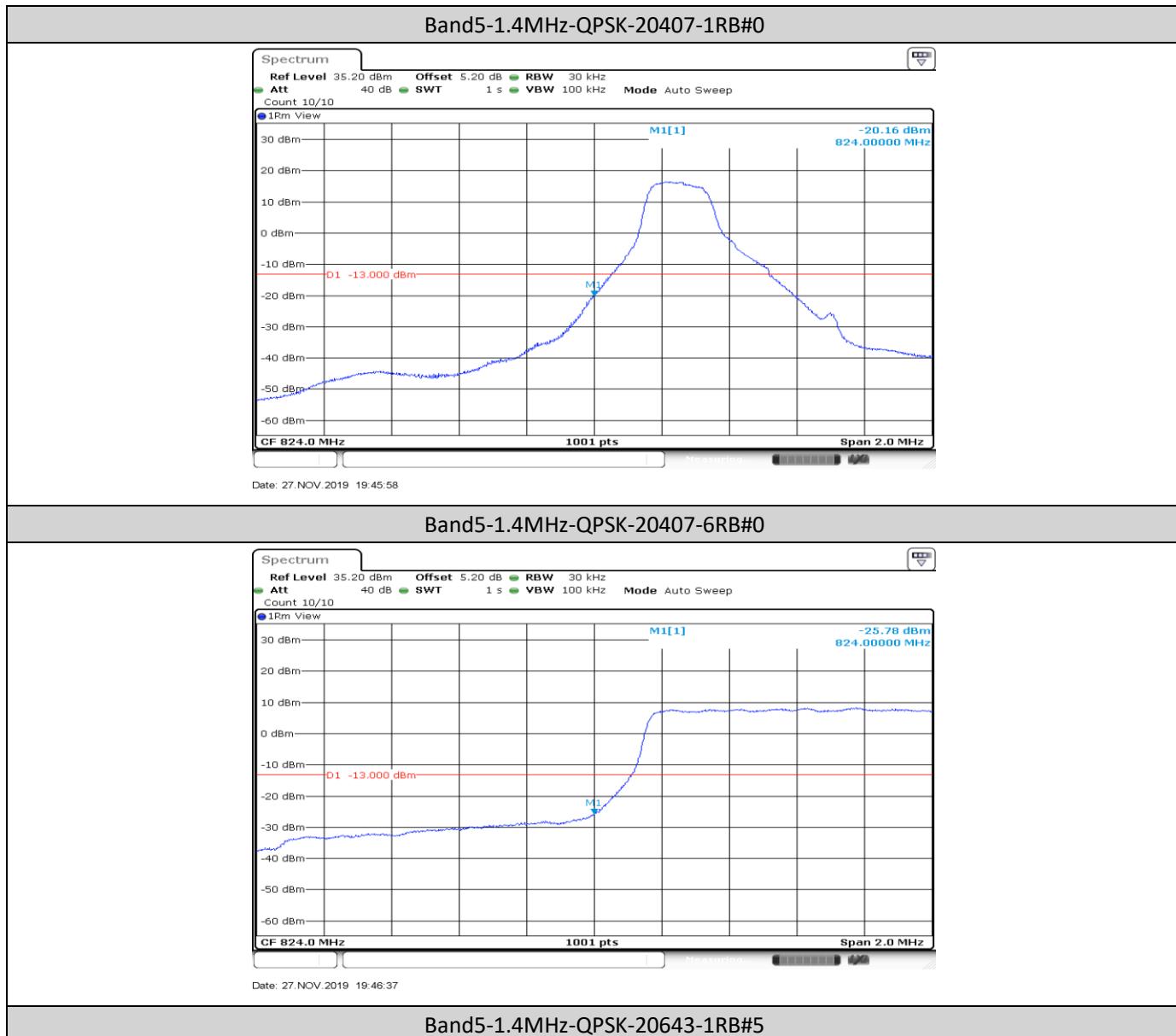


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5. Band Edge Compliance

5.1. Test Plots

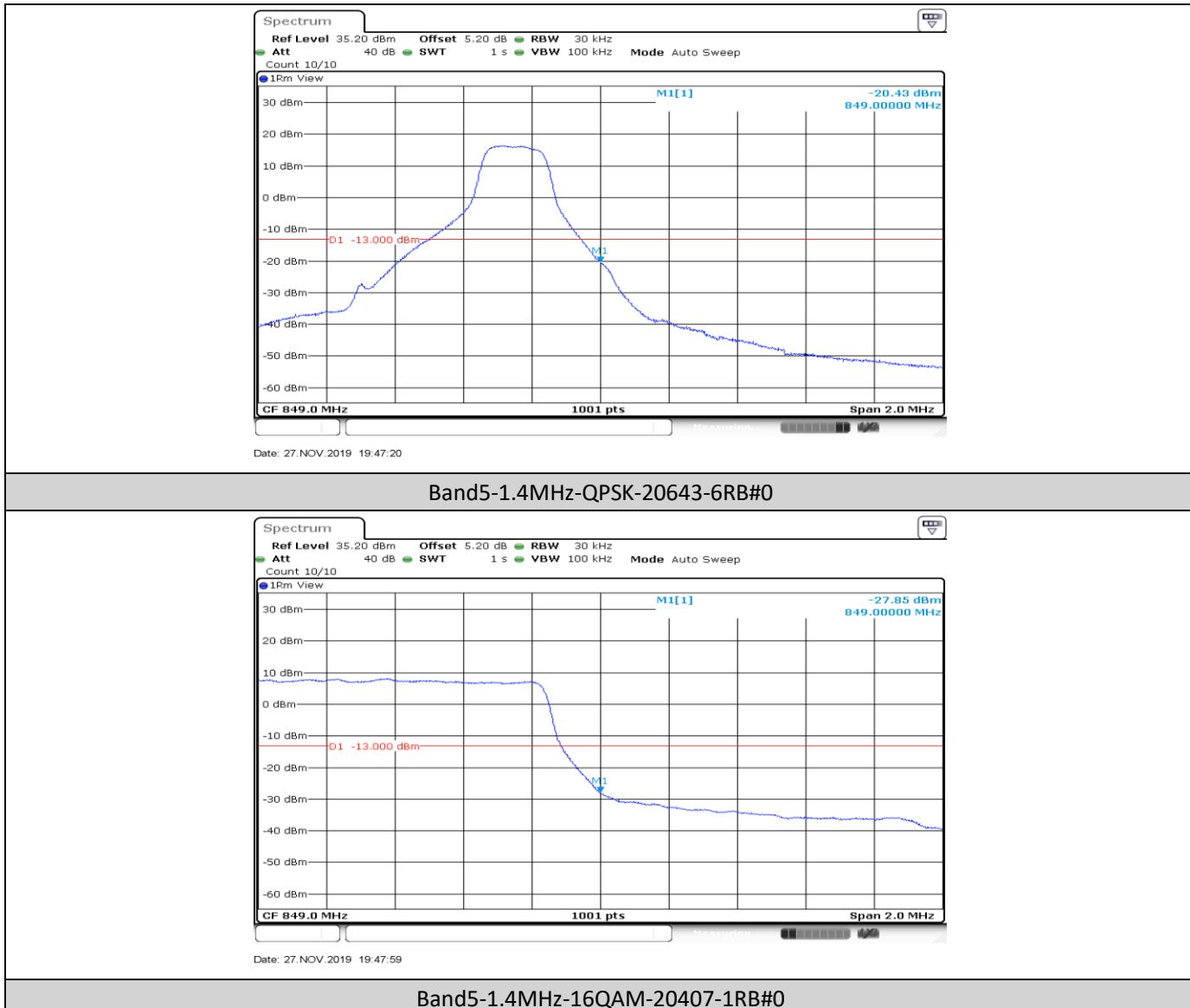


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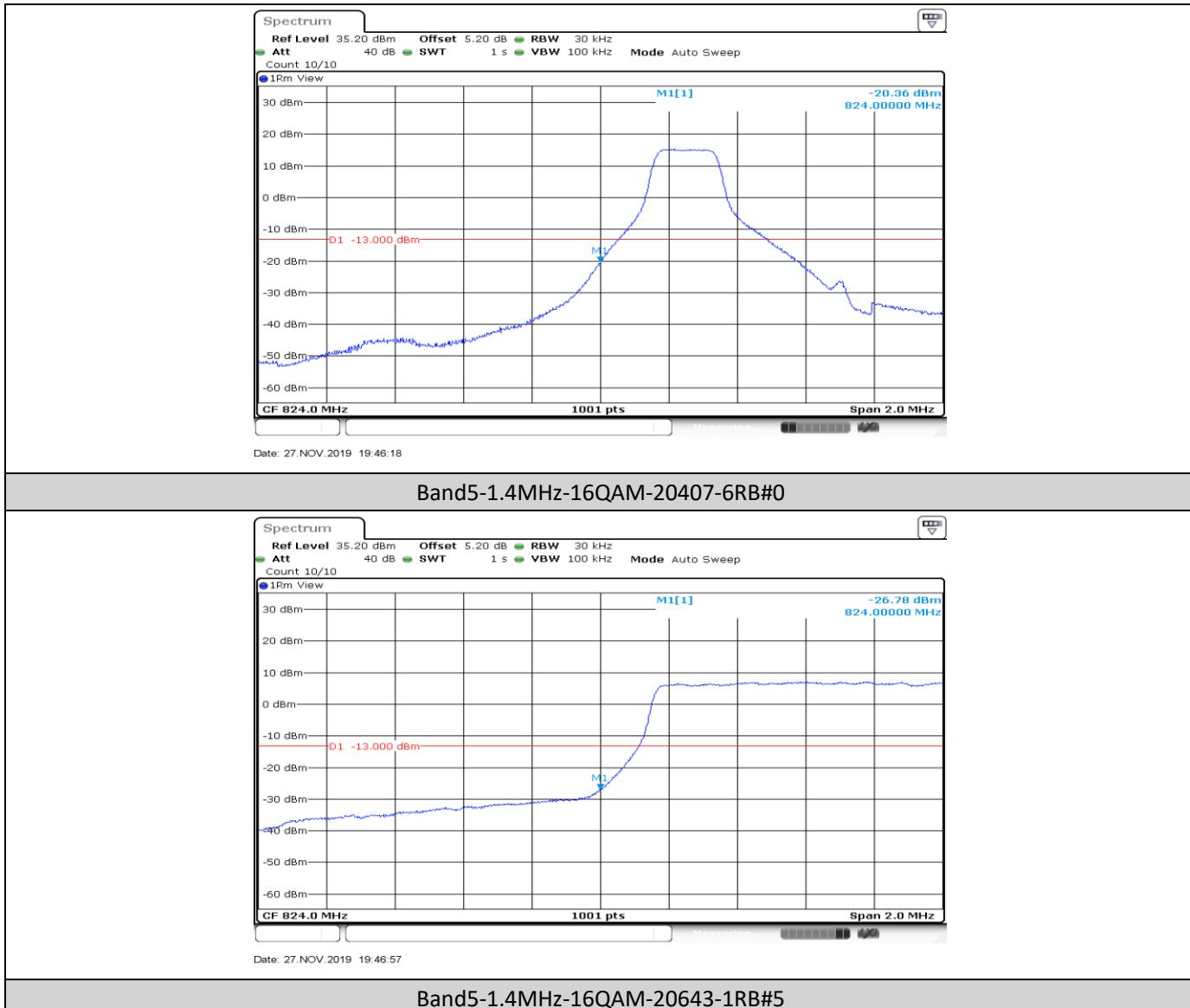
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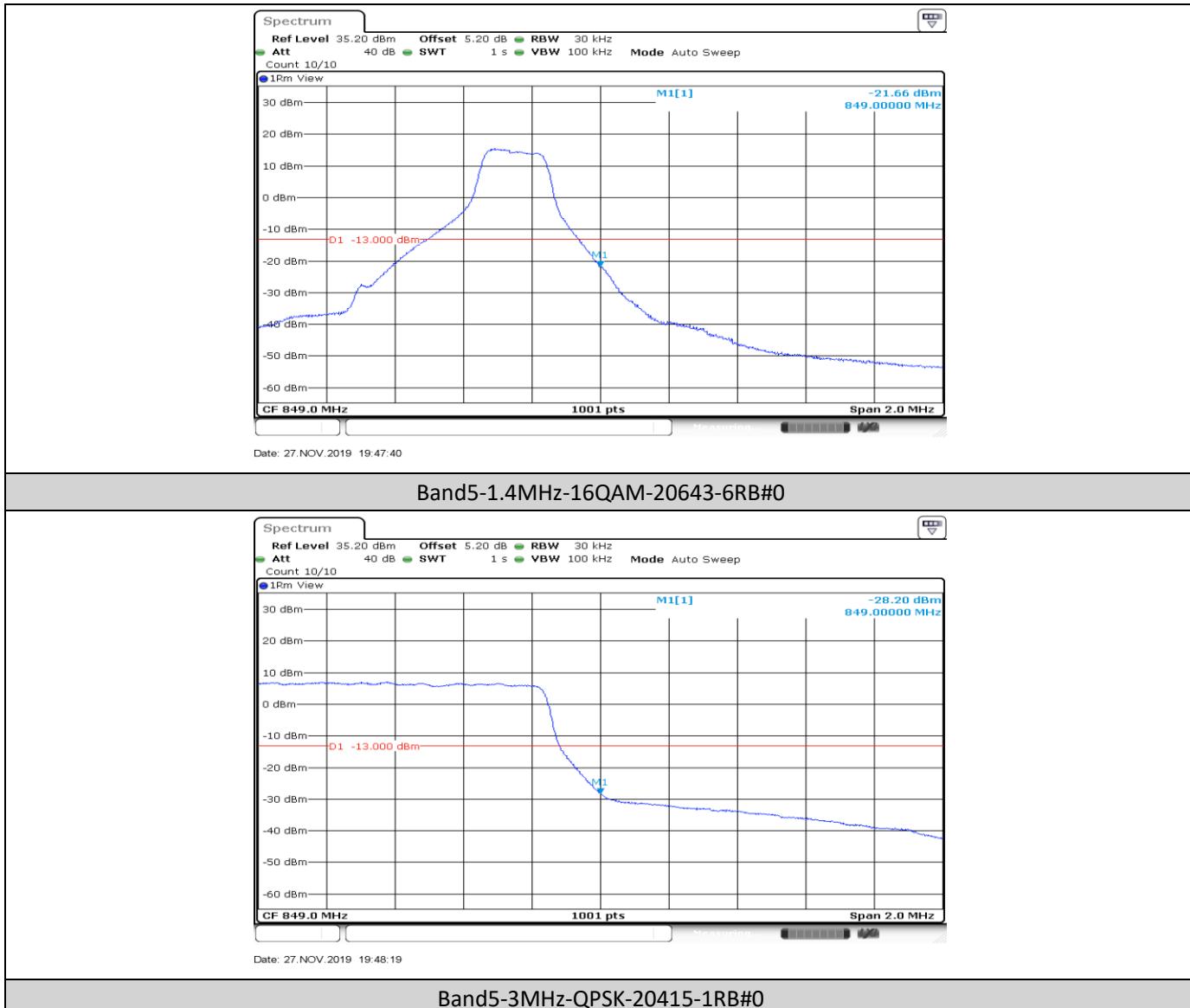


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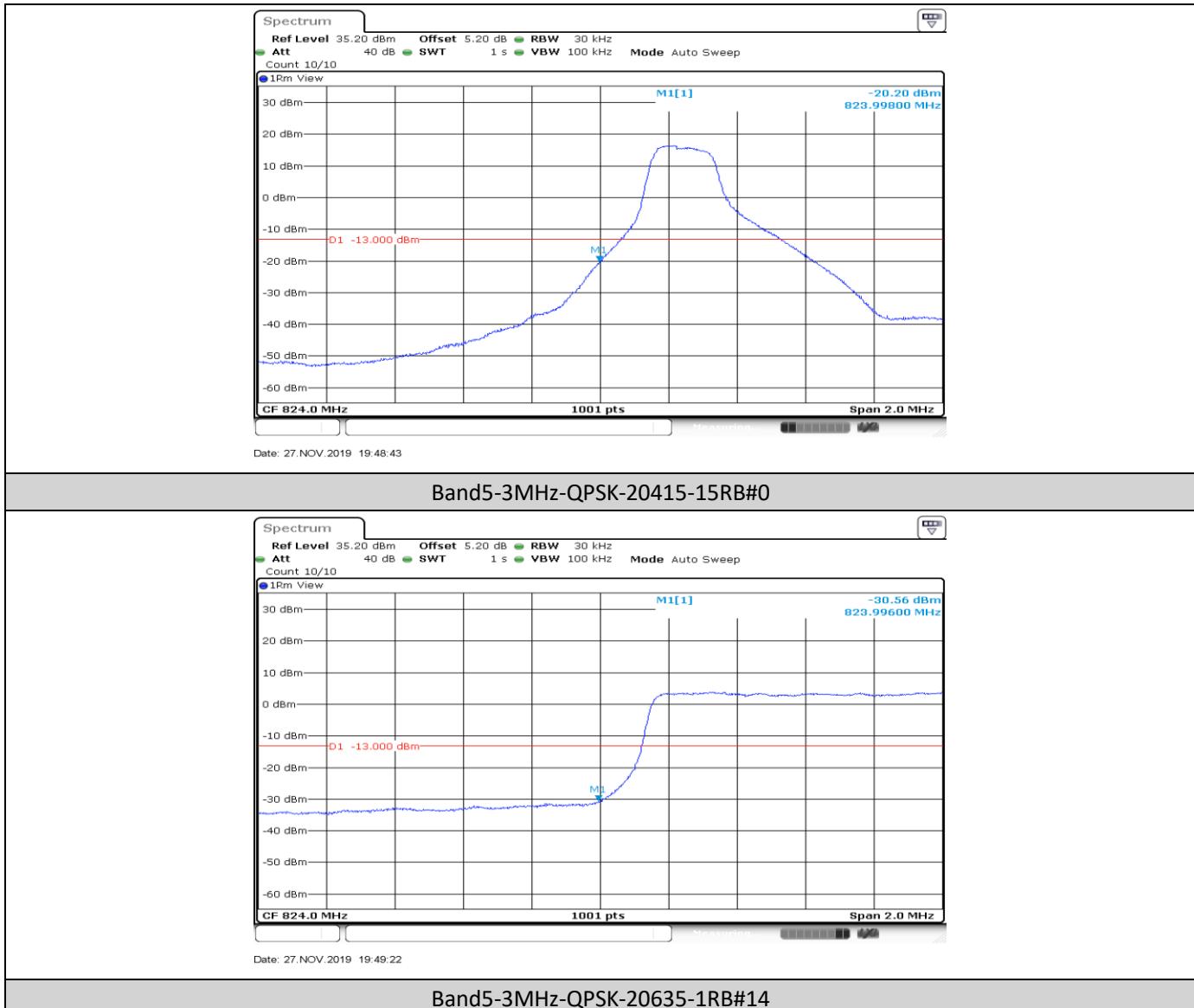
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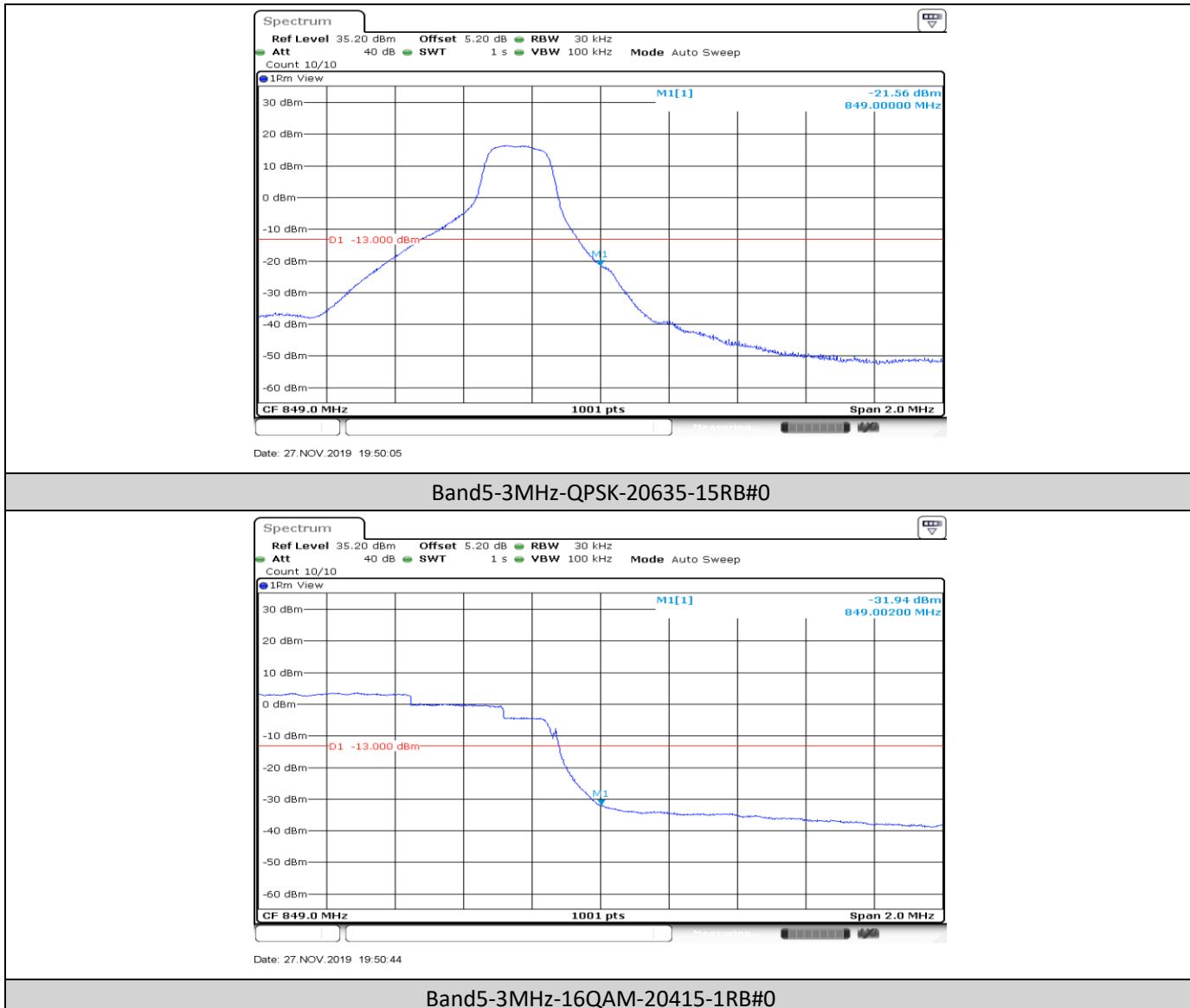


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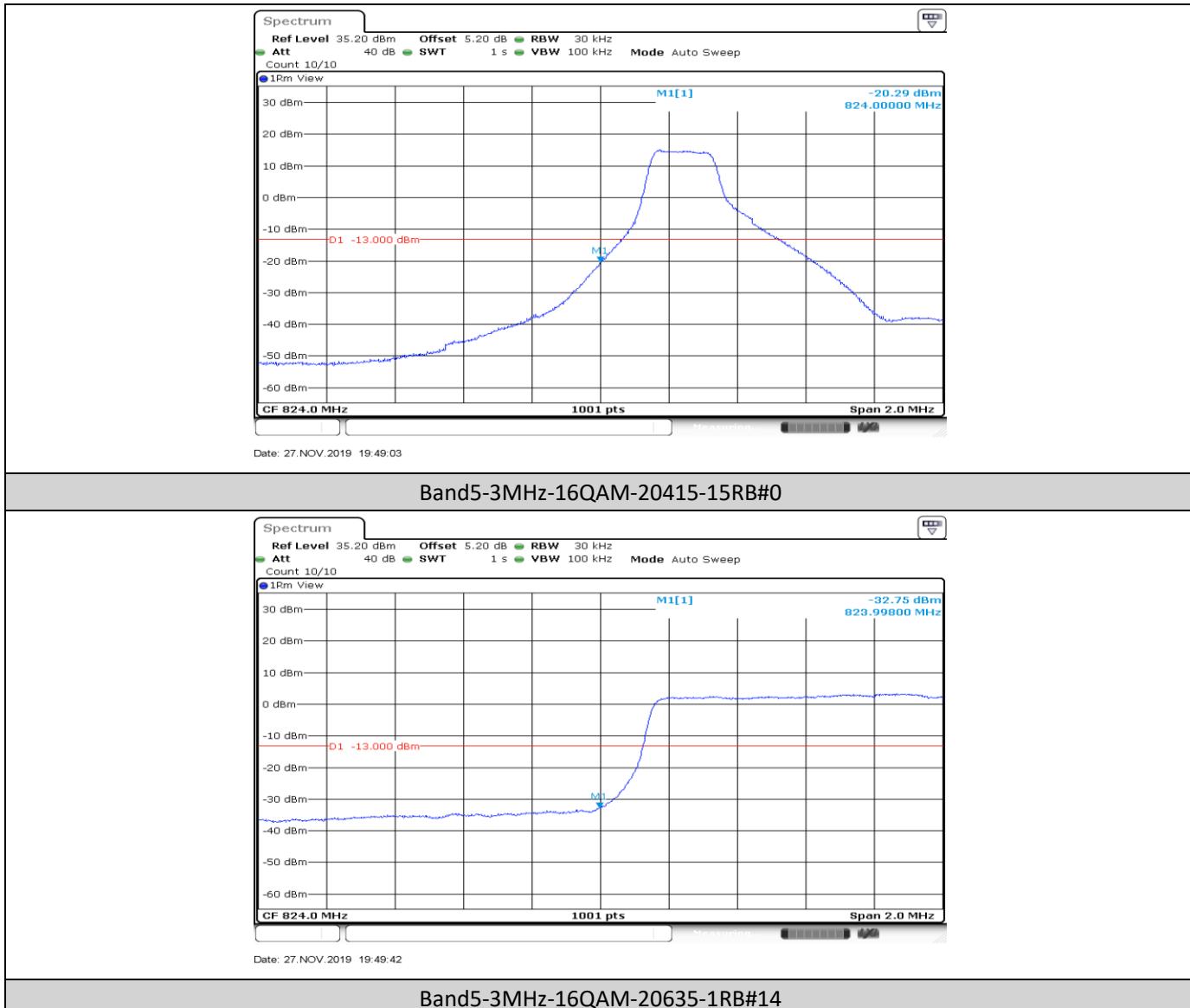
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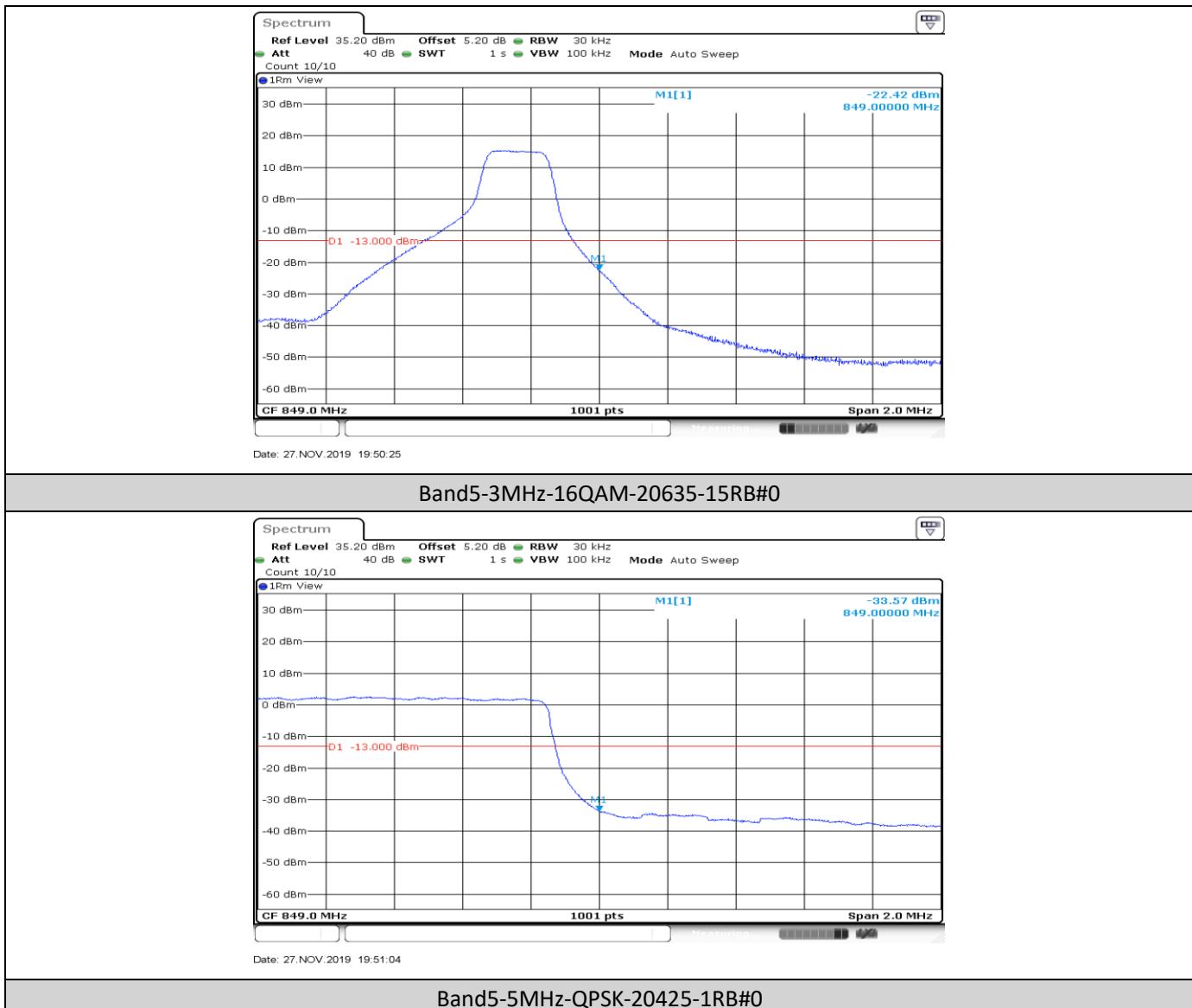


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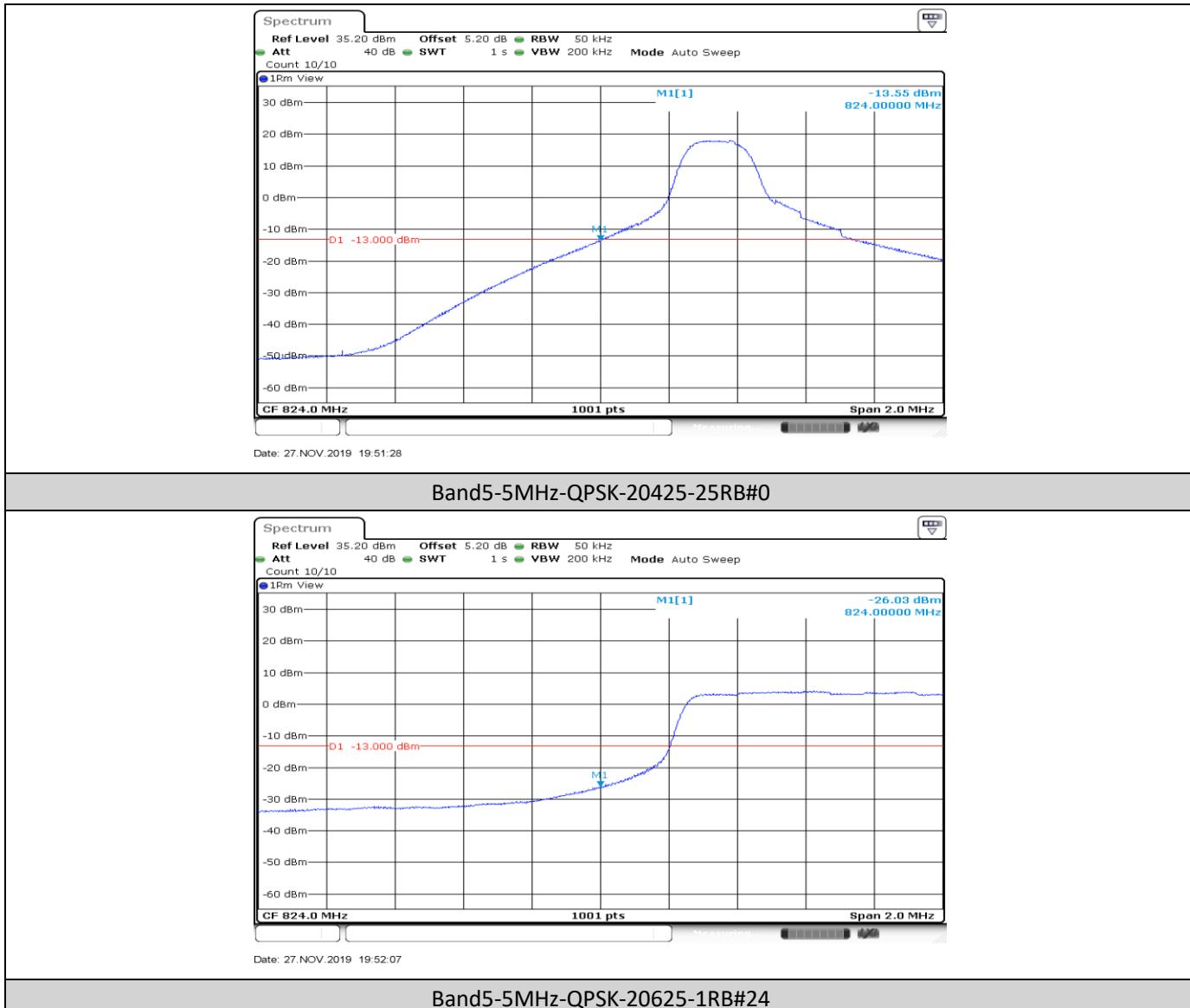
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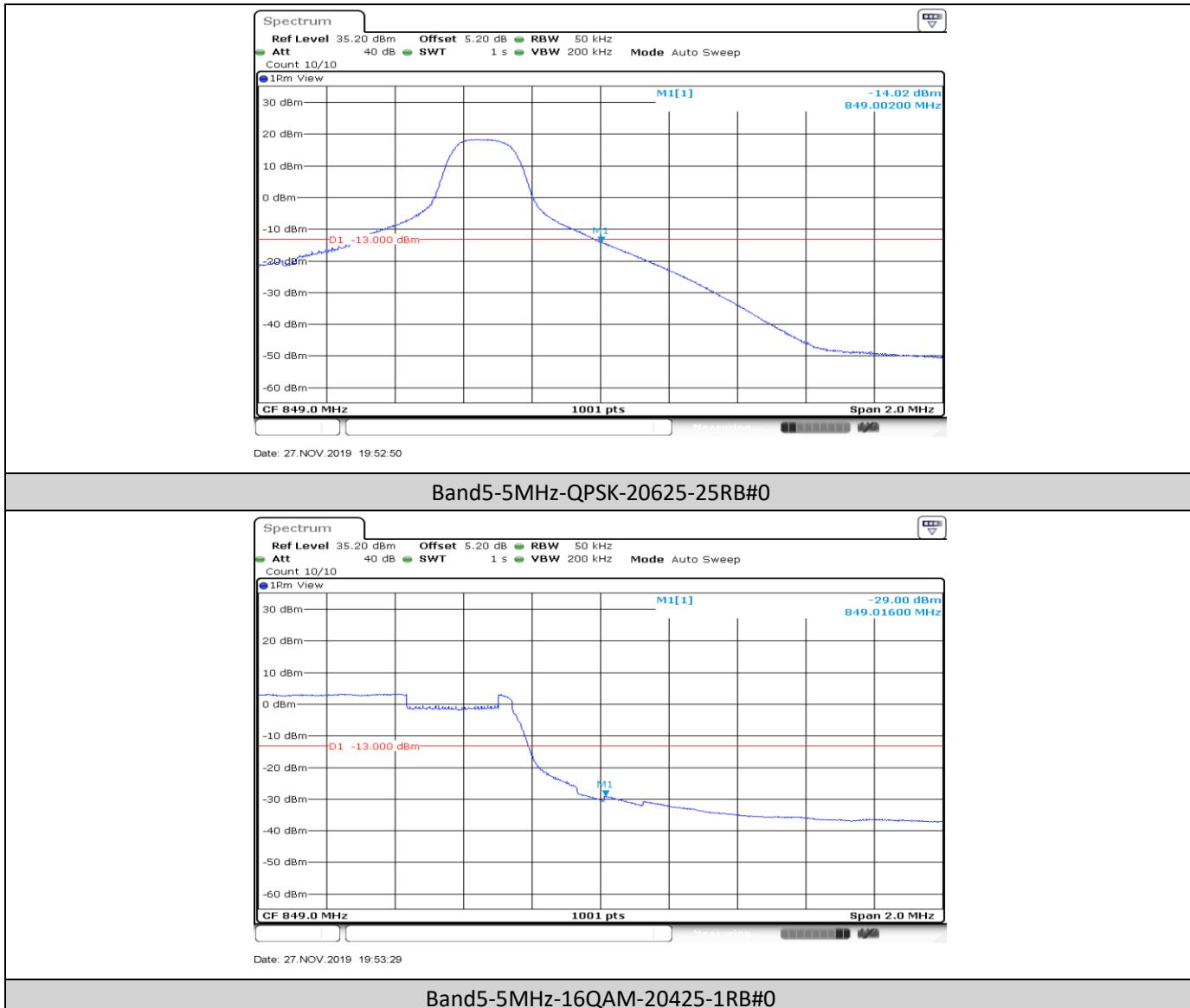


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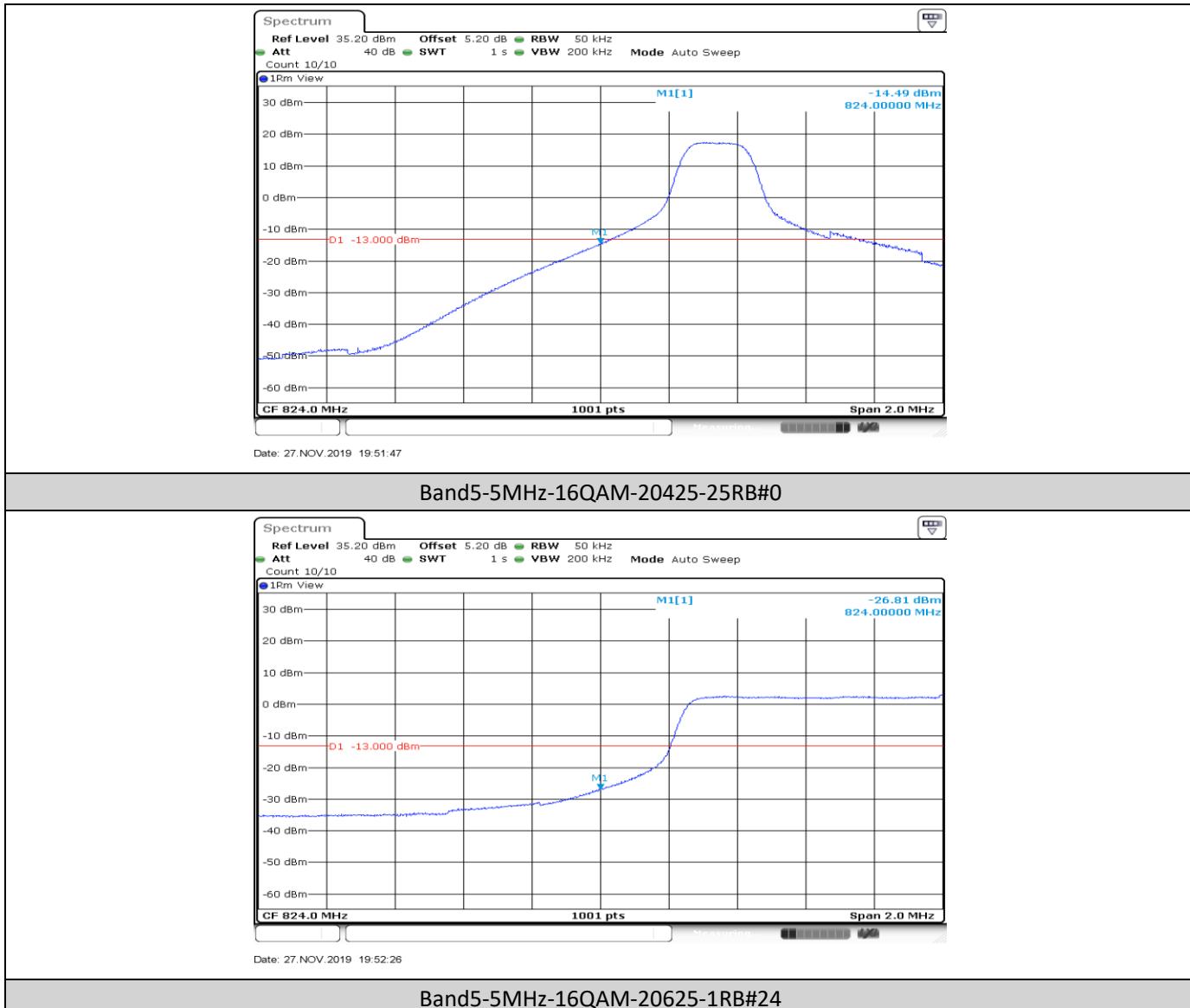
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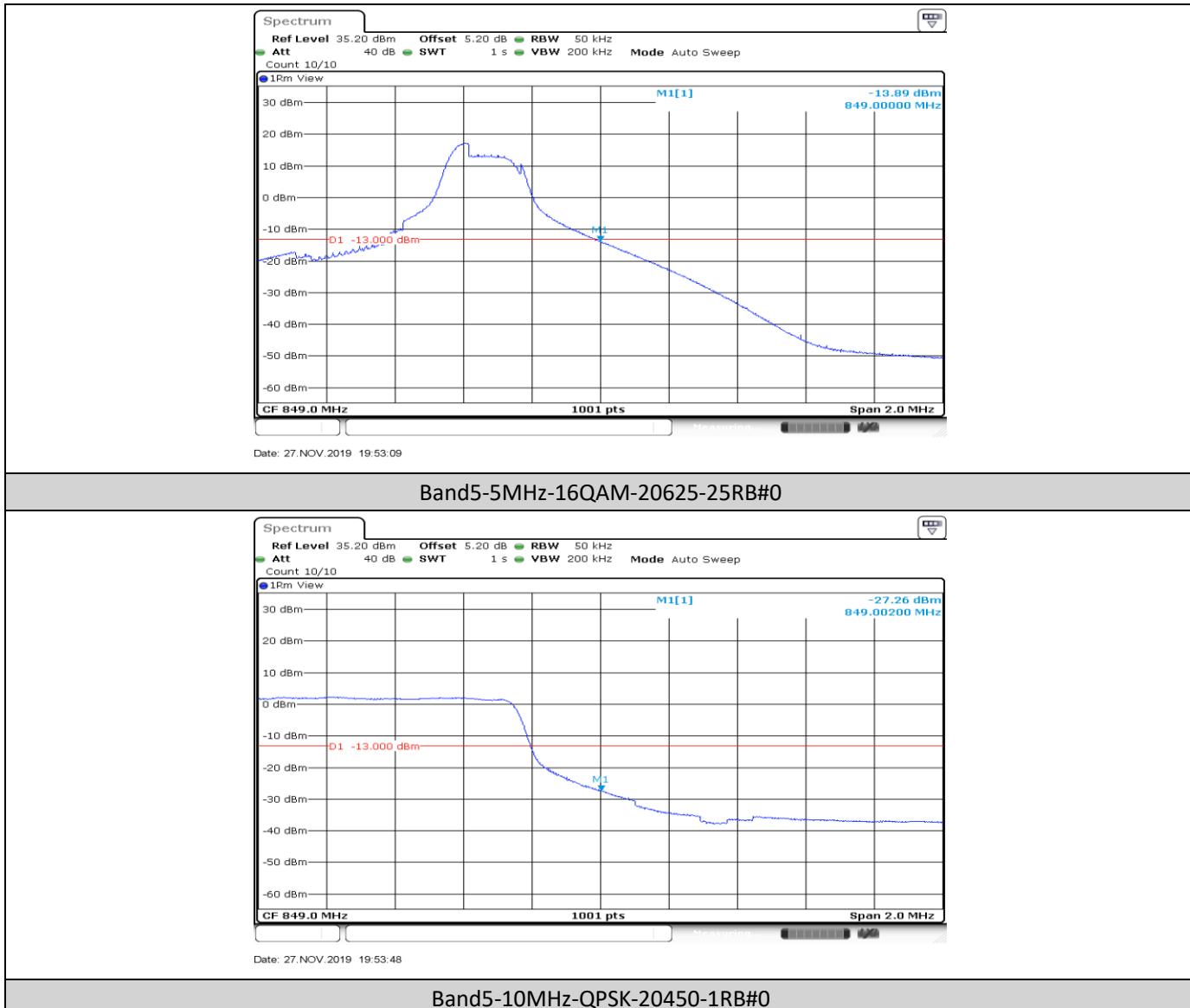


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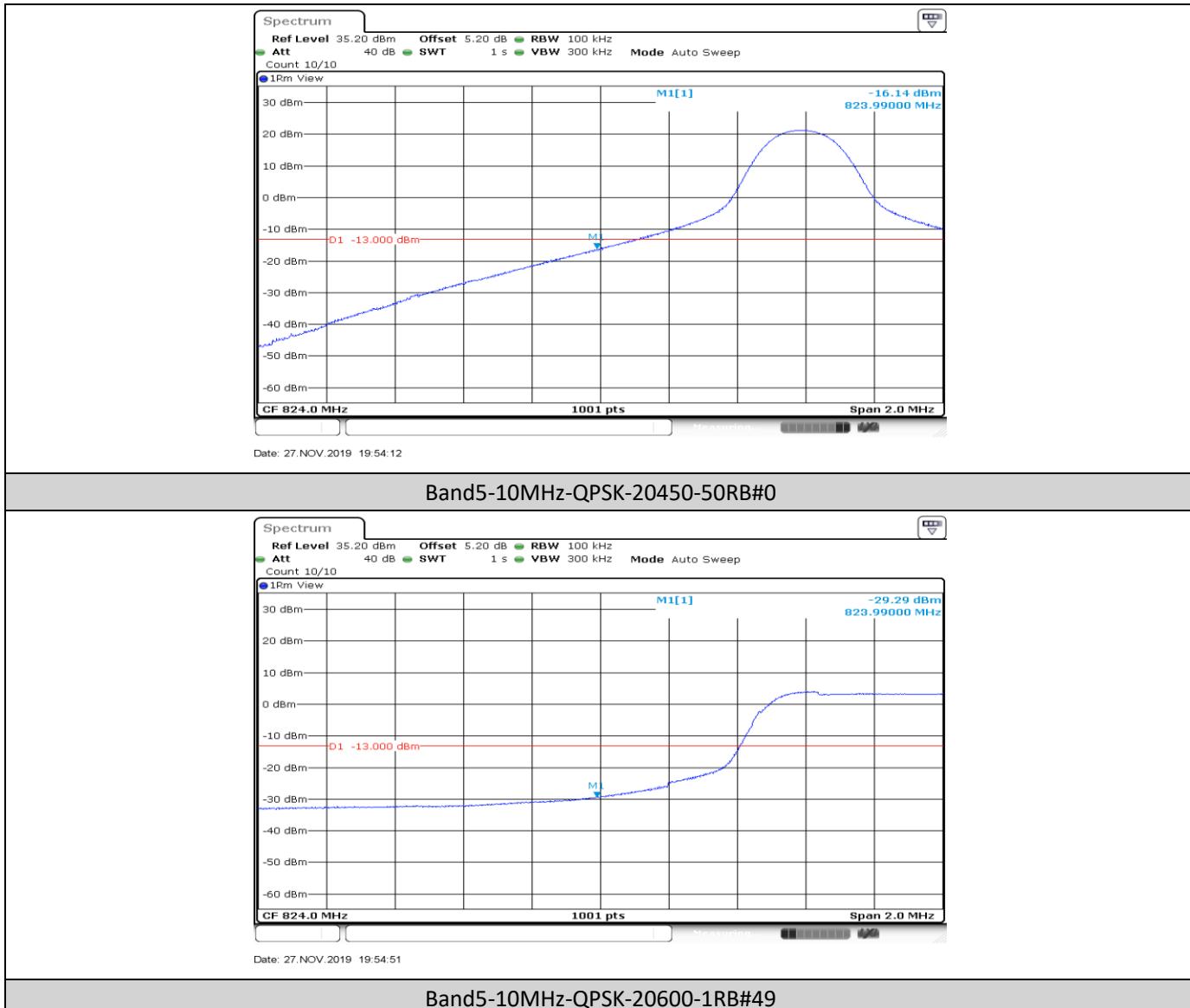
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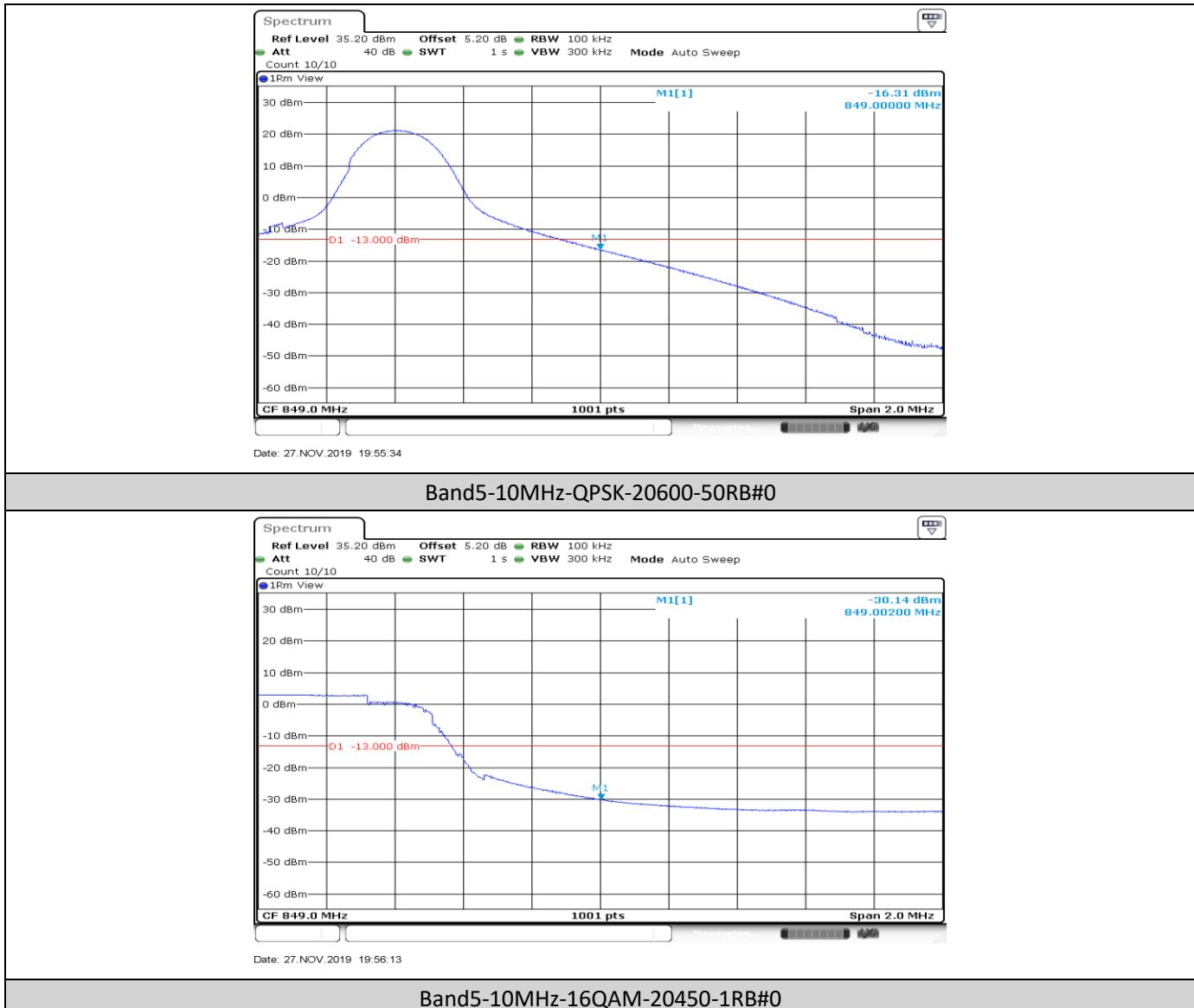
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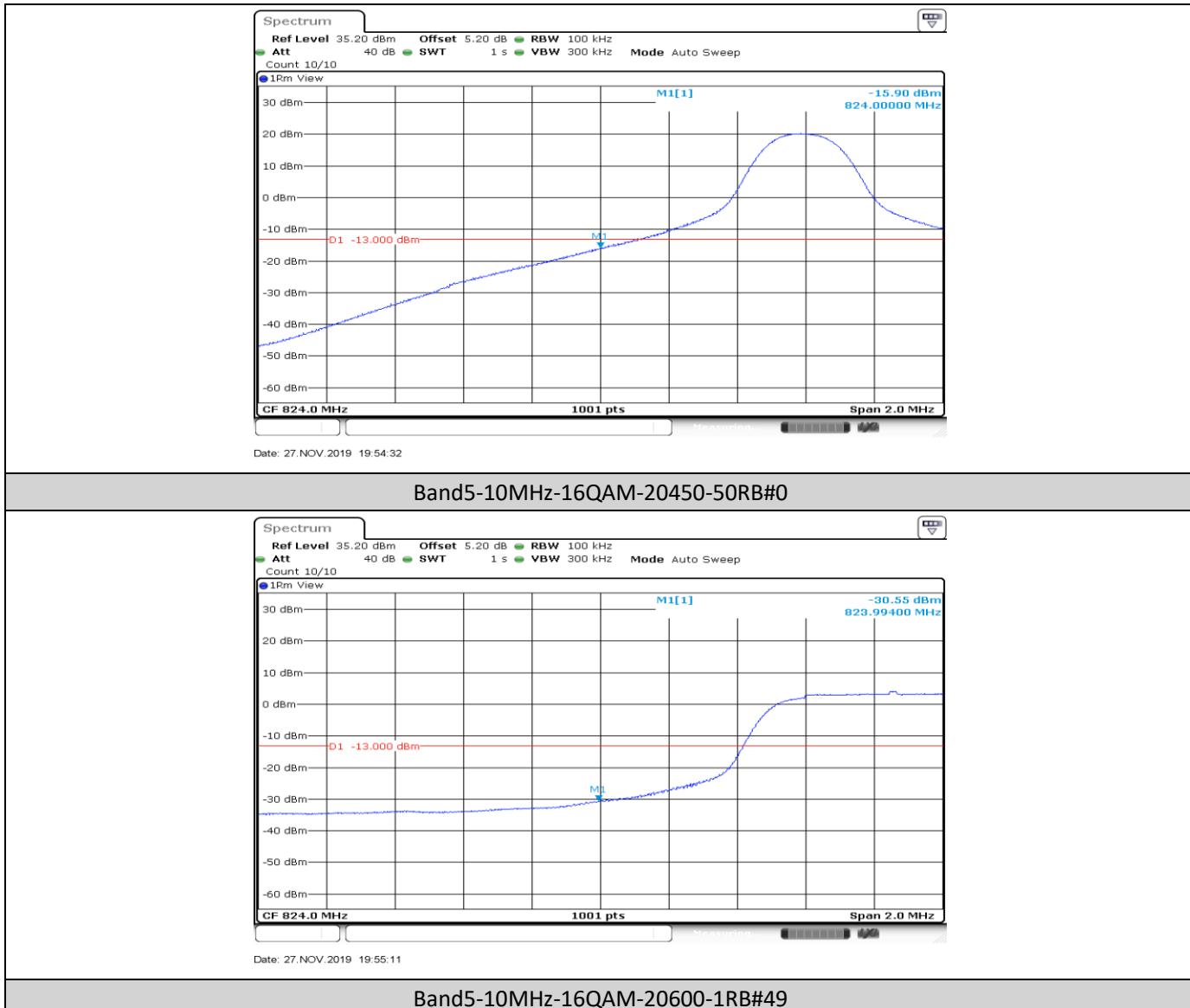


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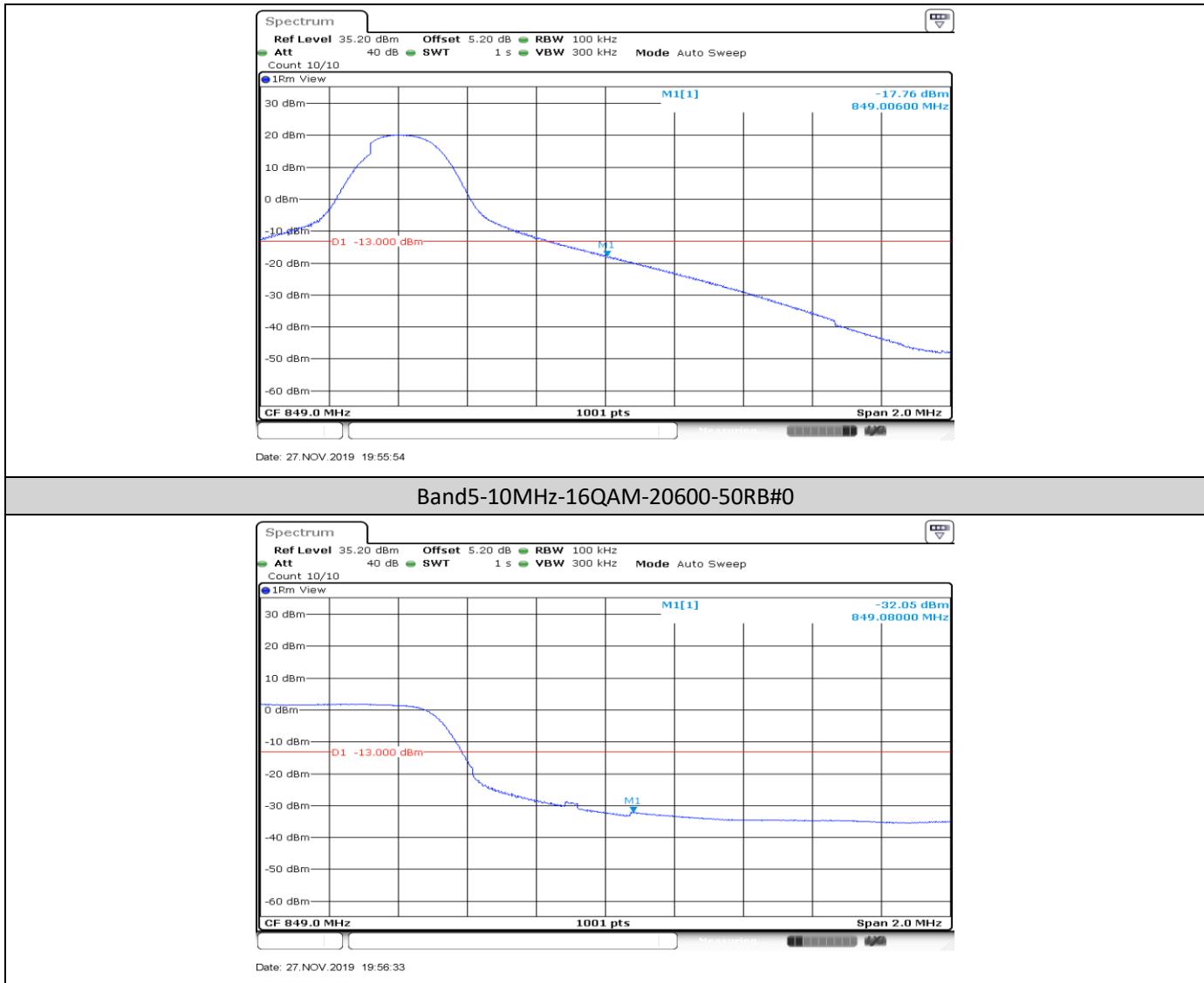
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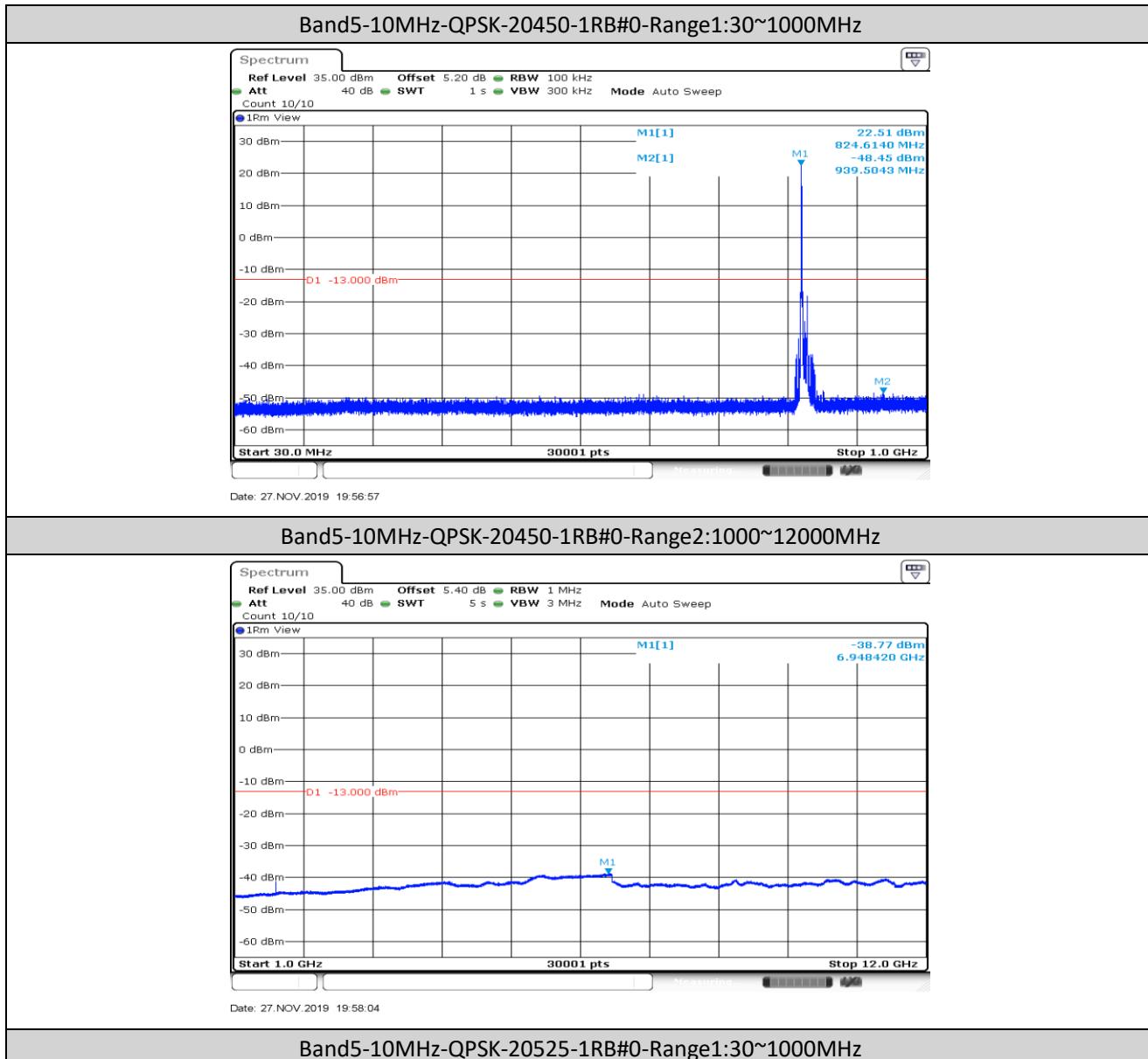
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6. Spurious Emission at Antenna Terminal

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 $< \text{RBW}/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (\text{Span} / \text{RBW})$ " 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

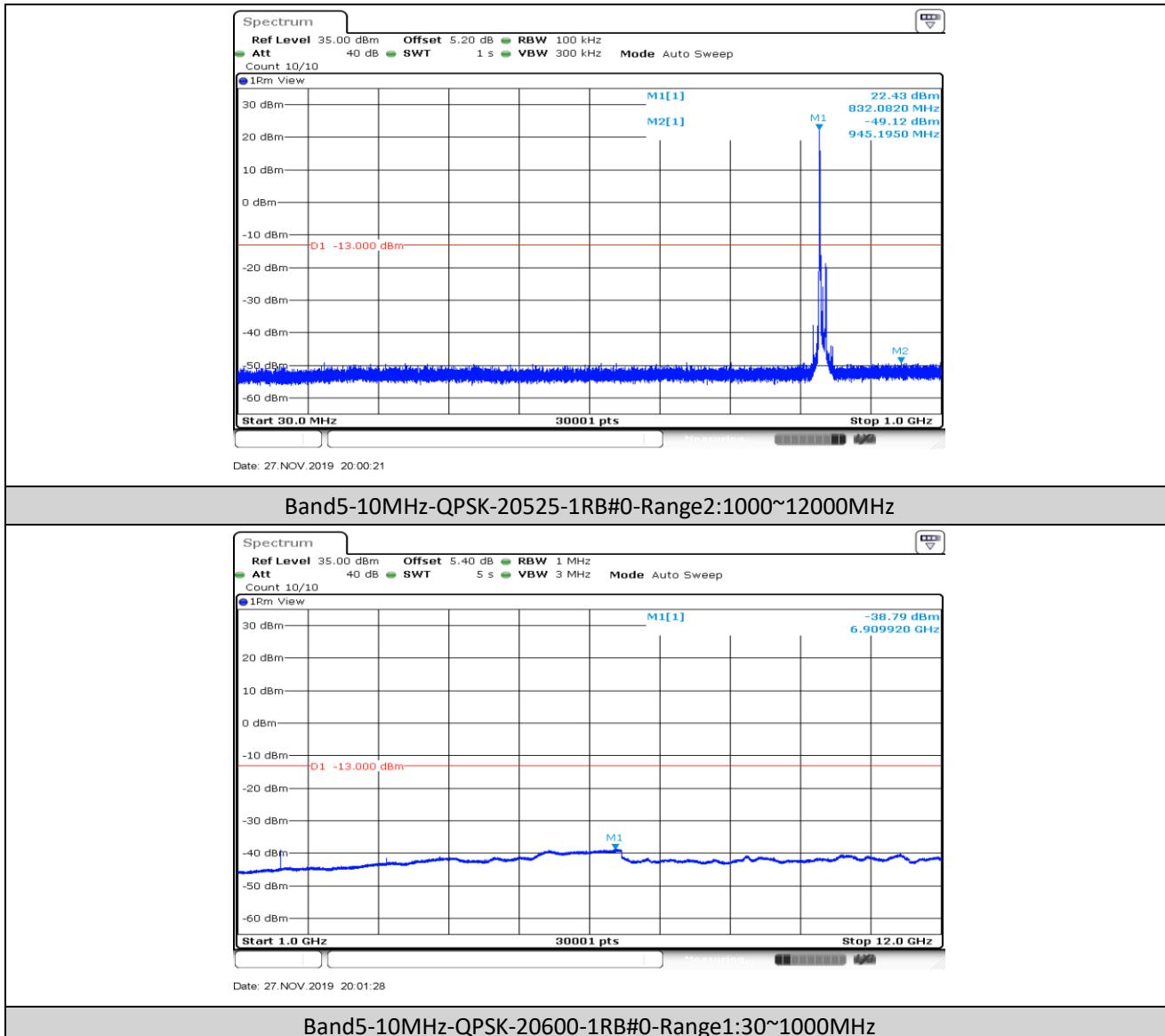


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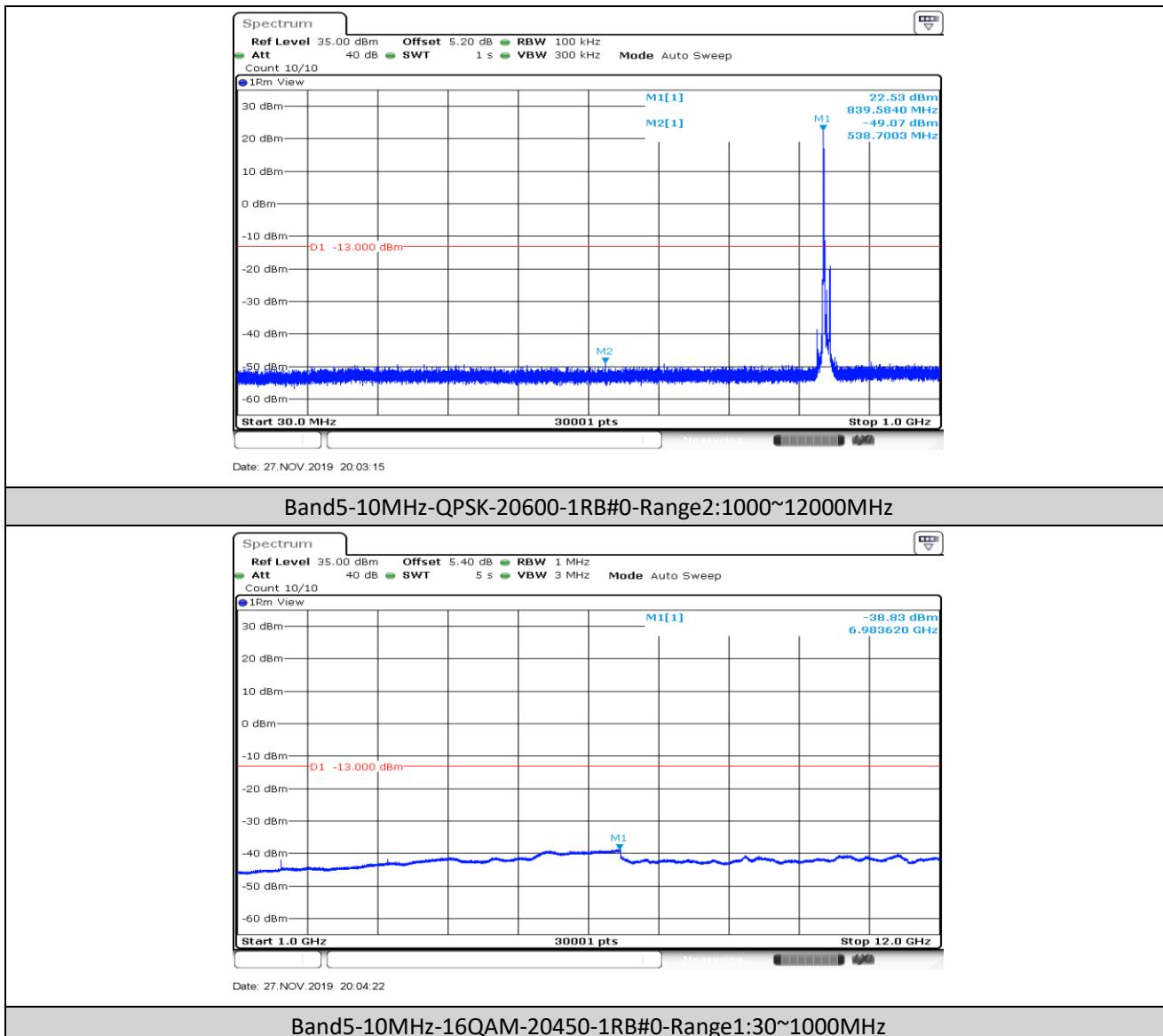
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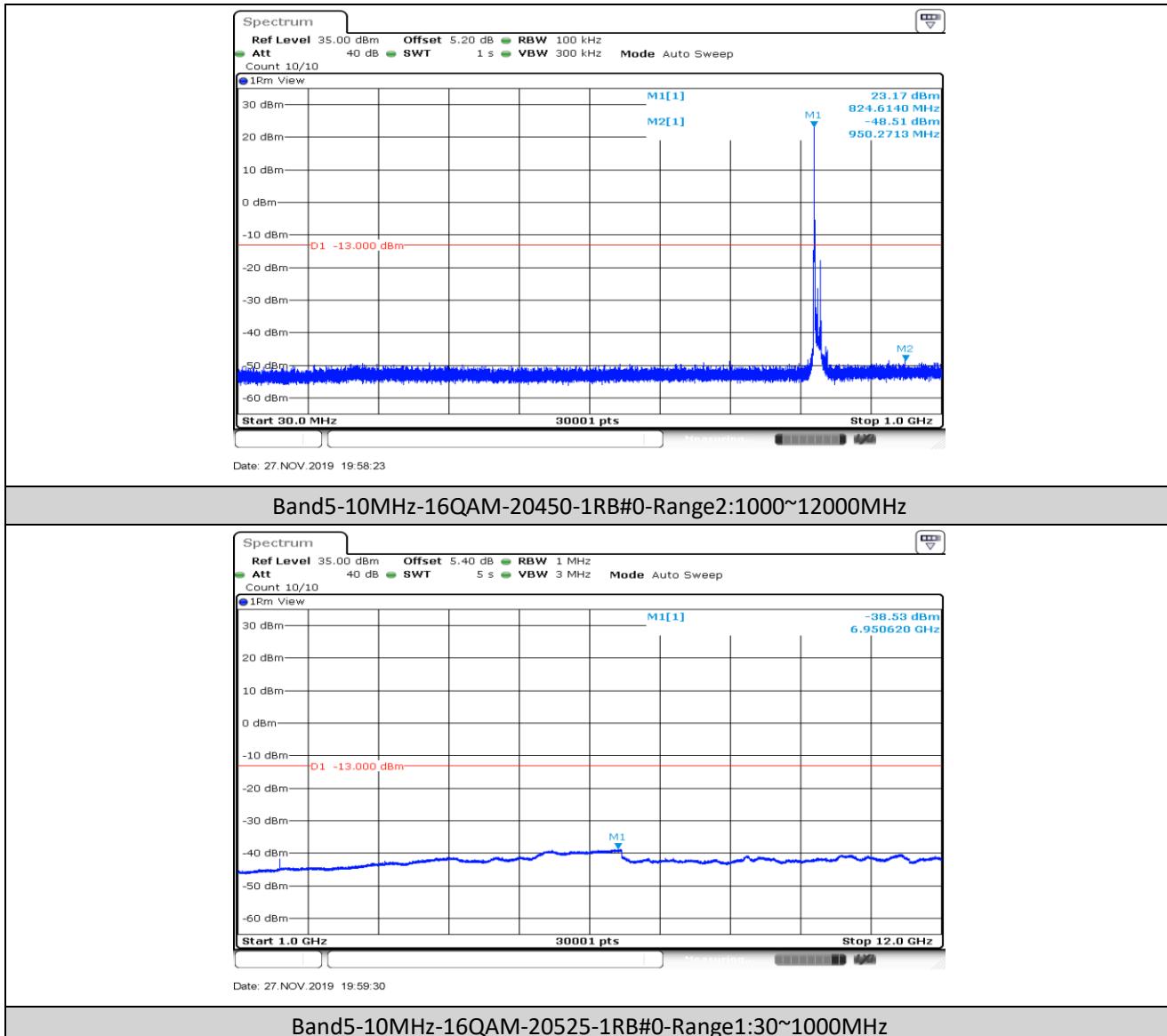
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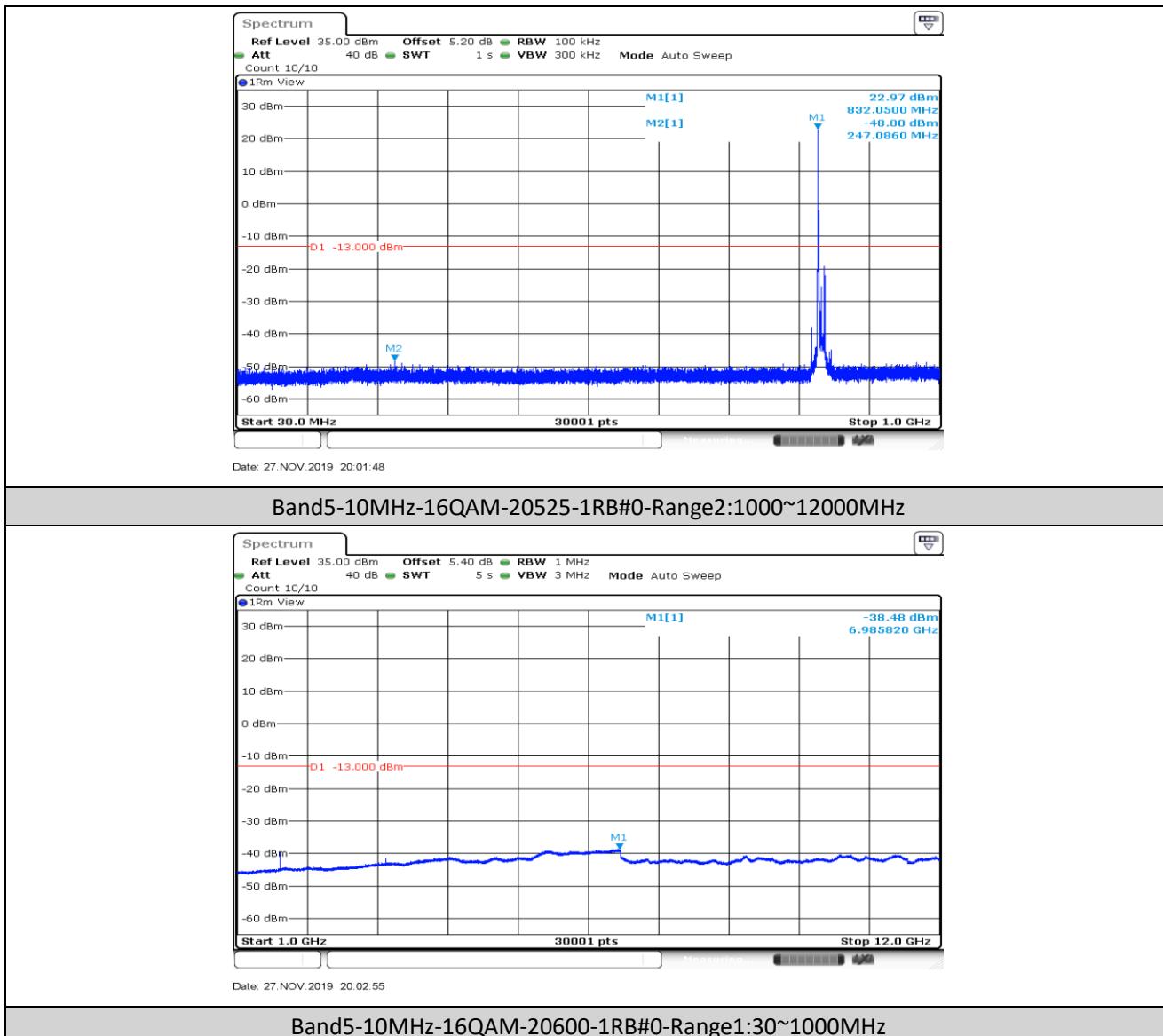


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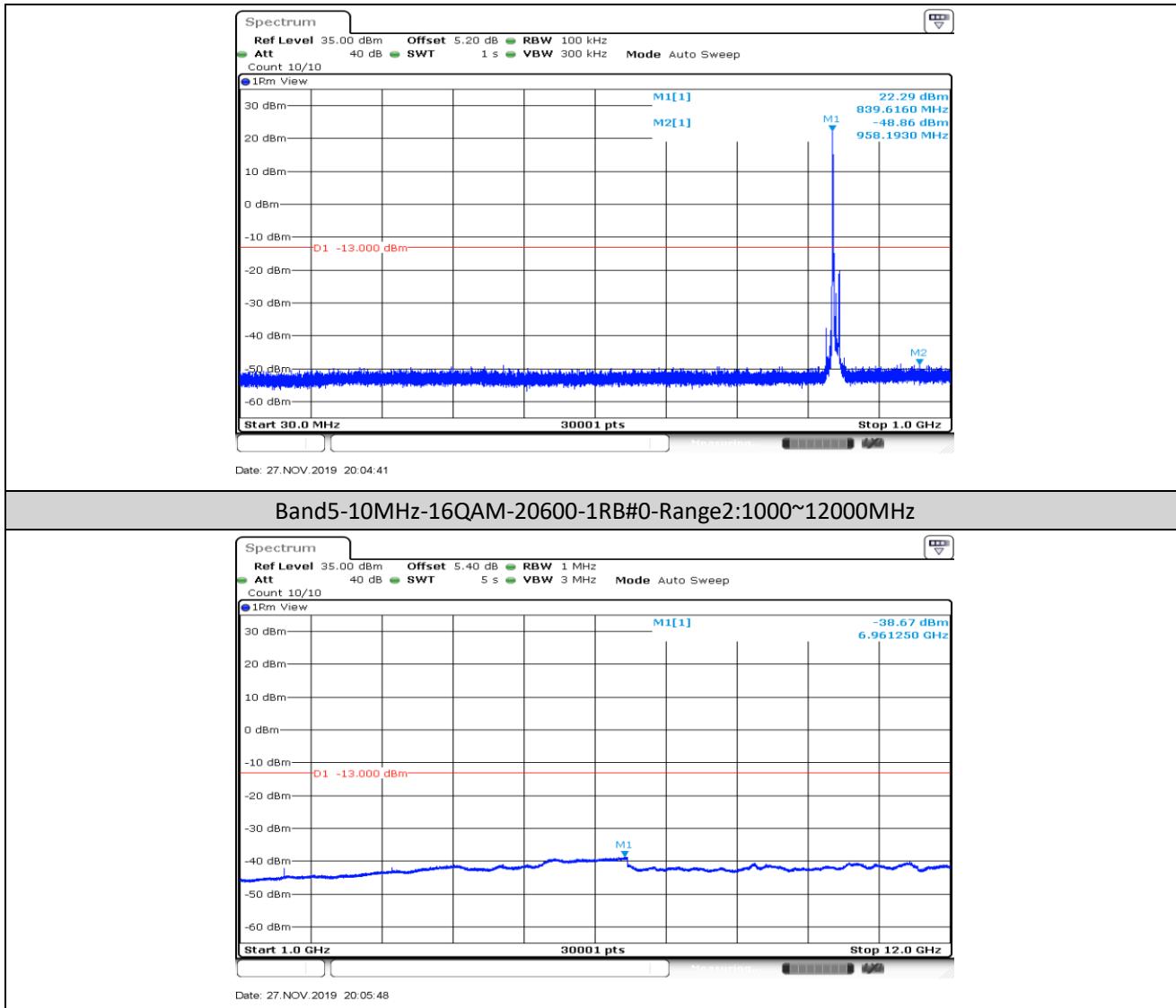


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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 (Main Ant)

7.1.1. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Height (cm) | Angle (°) | Polarization |
|-----------------|-------------|------------------|-------------|-------------|-----------|--------------|
| 109.7380 | -61.95 | -13.00 | 48.95 | 251 | 130 | Vertical |
| 1649.3299 | -48.30 | -13.00 | 35.30 | 154 | 184 | Vertical |
| 1745.7492 | -55.23 | -13.00 | 42.23 | 185 | 278 | Vertical |
| 3298.2099 | -53.80 | -13.00 | 40.80 | 196 | 98 | Vertical |
| 7382.9461 | -52.30 | -13.00 | 39.30 | 231 | 36 | Vertical |
| 8624.5875 | -51.45 | -13.00 | 38.45 | 265 | 193 | Vertical |
| 42.4651 | -61.82 | -13.00 | 48.82 | 251 | 130 | Horizontal |
| 239.1425 | -64.97 | -13.00 | 51.97 | 154 | 184 | Horizontal |
| 1242.4485 | -62.39 | -13.00 | 49.39 | 185 | 278 | Horizontal |
| 1648.9298 | -49.59 | -13.00 | 36.59 | 196 | 98 | Horizontal |
| 2443.0886 | -53.35 | -13.00 | 40.35 | 231 | 36 | Horizontal |
| 8565.1855 | -52.40 | -13.00 | 39.40 | 265 | 193 | Horizontal |

7.1.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Height (cm) | Angle (°) | Polarization |
|-----------------|-------------|------------------|-------------|-------------|-----------|--------------|
| 111.0476 | -62.19 | -13.00 | 49.19 | 251 | 130 | Vertical |
| 1664.1328 | -51.80 | -13.00 | 38.80 | 154 | 184 | Vertical |
| 2480.6961 | -34.39 | -13.00 | 21.39 | 185 | 278 | Vertical |
| 3328.2109 | -57.03 | -13.00 | 44.03 | 196 | 98 | Vertical |
| 7358.9453 | -52.36 | -13.00 | 39.36 | 231 | 36 | Vertical |
| 8859.1953 | -50.82 | -13.00 | 37.82 | 265 | 193 | Vertical |
| 43.0957 | -60.91 | -13.00 | 47.91 | 248 | 11 | Horizontal |
| 1242.0484 | -61.48 | -13.00 | 48.48 | 231 | 334 | Horizontal |
| 1664.1328 | -53.24 | -13.00 | 40.24 | 252 | 153 | Horizontal |
| 2571.9144 | -56.28 | -13.00 | 43.28 | 215 | 360 | Horizontal |
| 7460.1487 | -52.85 | -13.00 | 39.85 | 191 | 325 | Horizontal |
| 8849.1950 | -51.66 | -13.00 | 38.66 | 184 | 11 | Horizontal |

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7.1.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Height (cm) | Angle (°) | Polarization |
|-----------------|-------------|------------------|-------------|-------------|-----------|--------------|
| 108.1859 | -62.46 | -13.00 | 49.46 | 248 | 11 | Vertical |
| 1242.0484 | -61.39 | -13.00 | 48.39 | 231 | 334 | Vertical |
| 1679.3359 | -45.51 | -13.00 | 32.51 | 252 | 153 | Vertical |
| 2677.9356 | -45.19 | -13.00 | 32.19 | 215 | 360 | Vertical |
| 3358.2119 | -51.26 | -13.00 | 38.26 | 191 | 325 | Vertical |
| 8795.3932 | -51.05 | -13.00 | 38.05 | 184 | 11 | Vertical |
| 39.4580 | -62.60 | -13.00 | 49.60 | 185 | 39 | Horizontal |
| 238.5604 | -65.54 | -13.00 | 52.54 | 196 | 8 | Horizontal |
| 1242.0484 | -60.75 | -13.00 | 47.75 | 231 | 226 | Horizontal |
| 1792.5585 | -50.21 | -13.00 | 37.21 | 252 | 137 | Horizontal |
| 3358.2119 | -54.77 | -13.00 | 41.77 | 161 | 8 | Horizontal |
| 7358.3453 | -52.87 | -13.00 | 39.87 | 184 | 39 | Horizontal |

7.2. Test Mode =LTE/TM1 (Second Ant)

7.2.1. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Height (cm) | Angle (°) | Polarization |
|-----------------|-------------|------------------|-------------|-------------|-----------|--------------|
| 106.5368 | -62.69 | -13.00 | 49.69 | 185 | 348 | Vertical |
| 1666.9334 | -47.08 | -13.00 | 34.08 | 196 | 138 | Vertical |
| 2500.3001 | -56.39 | -13.00 | 43.39 | 321 | 109 | Vertical |
| 7357.7453 | -52.86 | -13.00 | 39.86 | 252 | 130 | Vertical |
| 8862.3954 | -51.36 | -13.00 | 38.36 | 251 | 348 | Vertical |
| 45.1813 | -61.61 | -13.00 | 48.61 | 258 | 161 | Horizontal |
| 1666.9334 | -42.36 | -13.00 | 29.36 | 196 | 182 | Horizontal |
| 2500.3001 | -55.06 | -13.00 | 42.06 | 213 | 231 | Horizontal |
| 3333.6111 | -55.86 | -13.00 | 42.86 | 256 | 35 | Horizontal |
| 7360.1453 | -53.35 | -13.00 | 40.35 | 248 | 225 | Horizontal |
| 8801.9934 | -51.49 | -13.00 | 38.49 | 184 | 35 | Horizontal |

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7.2.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Height (cm) | Angle (°) | Polarization |
|-----------------|-------------|------------------|-------------|-------------|-----------|--------------|
| 111.0476 | -63.12 | -13.00 | 50.12 | 196 | 192 | Vertical |
| 1681.7363 | -44.80 | -13.00 | 31.80 | 213 | 138 | Vertical |
| 2523.1046 | -56.73 | -13.00 | 43.73 | 252 | 111 | Vertical |
| 3363.4121 | -57.21 | -13.00 | 44.21 | 294 | 254 | Vertical |
| 4204.4401 | -56.75 | -13.00 | 43.75 | 184 | 223 | Vertical |
| 8875.9959 | -51.81 | -13.00 | 38.81 | 261 | 67 | Vertical |
| 40.9615 | -62.73 | -13.00 | 49.73 | 185 | 159 | Horizontal |
| 1681.7363 | -40.07 | -13.00 | 27.07 | 296 | 182 | Horizontal |
| 2440.2881 | -27.74 | -13.00 | 14.74 | 226 | 14 | Horizontal |
| 3363.4121 | -53.59 | -13.00 | 40.59 | 325 | 35 | Horizontal |
| 7351.9451 | -53.56 | -13.00 | 40.56 | 251 | 306 | Horizontal |
| 8834.3945 | -51.33 | -13.00 | 38.33 | 184 | 338 | Horizontal |

7.2.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Height (cm) | Angle (°) | Polarization |
|-----------------|-------------|------------------|-------------|-------------|-----------|--------------|
| 112.9391 | -62.43 | -13.00 | 49.43 | 185 | 290 | Vertical |
| 1696.9394 | -48.69 | -13.00 | 35.69 | 196 | 137 | Vertical |
| 2410.6821 | -52.75 | -13.00 | 39.75 | 251 | 282 | Vertical |
| 2582.3165 | -43.82 | -13.00 | 30.82 | 184 | 52 | Vertical |
| 3393.6131 | -57.88 | -13.00 | 44.88 | 196 | 257 | Vertical |
| 8790.3930 | -52.06 | -13.00 | 39.06 | 321 | 66 | Vertical |
| 41.3011 | -63.04 | -13.00 | 50.04 | 185 | 129 | Horizontal |
| 1696.9394 | -44.21 | -13.00 | 31.21 | 196 | 180 | Horizontal |
| 1902.1804 | -58.06 | -13.00 | 45.06 | 321 | 328 | Horizontal |
| 3393.6131 | -54.33 | -13.00 | 41.33 | 262 | 35 | Horizontal |
| 7356.3452 | -53.90 | -13.00 | 40.90 | 254 | 351 | Horizontal |
| 8861.5954 | -52.24 | -13.00 | 39.24 | 184 | 256 | 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.
- The disturbance below 30MHz was very low, and the above harmonics were the highest point could be

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found when testing, so only the worst case data displayed in this report.

3 all modulation and all Bandwidth had been tested, but only the worst case data displayed in this report.



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8. Frequency Stability

8.1. Frequency Vs Voltage

| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|-------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | VL | NT | -0.10 | -0.000121 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | VN | NT | -8.10 | -0.009771 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | VH | NT | -10.50 | -0.012666 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | VL | NT | -2.20 | -0.002630 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | VN | NT | -10.10 | -0.012074 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | VH | NT | 0.30 | 0.000359 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | VL | NT | -9.00 | -0.010664 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | VN | NT | -13.00 | -0.015403 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | VH | NT | -2.80 | -0.003318 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | VL | NT | -4.40 | -0.005308 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | VN | NT | -1.40 | -0.001689 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | VH | NT | 2.40 | 0.002895 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | VL | NT | -14.50 | -0.017334 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | VN | NT | -4.20 | -0.005021 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | VH | NT | -7.30 | -0.008727 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | VL | NT | -11.20 | -0.013270 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | VN | NT | -1.00 | -0.001185 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | VH | NT | -9.60 | -0.011374 | ±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 |
|-------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | NV | -30 | -9.50 | -0.011460 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | NV | -20 | -13.20 | -0.015923 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | NV | 0 | -7.70 | -0.009288 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | NV | 10 | 0.20 | 0.000241 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | NV | 20 | -10.40 | -0.012545 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | NV | 30 | -5.70 | -0.006876 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | NV | 40 | -2.80 | -0.003378 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20450 | 50RB#0 | NV | 50 | -2.70 | -0.003257 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | NV | -30 | -6.90 | -0.008249 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | NV | -20 | 0.10 | 0.000120 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | NV | 0 | -10.70 | -0.012791 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | NV | 10 | -6.20 | -0.007412 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | NV | 20 | 2.40 | 0.002869 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | NV | 30 | -10.00 | -0.011955 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | NV | 40 | -9.30 | -0.011118 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20525 | 50RB#0 | NV | 50 | 2.60 | 0.003108 | ±2.5 | PASS |

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|-------|-------|-------|-------|--------|----|-----|--------|-----------|------|------|
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | NV | -30 | -15.20 | -0.018009 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | NV | -20 | -6.50 | -0.007701 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | NV | 0 | -7.10 | -0.008412 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | NV | 10 | -9.70 | -0.011493 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | NV | 20 | -2.50 | -0.002962 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | NV | 30 | -1.50 | -0.001777 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | NV | 40 | -13.40 | -0.015877 | ±2.5 | PASS |
| Band5 | 10MHz | QPSK | 20600 | 50RB#0 | NV | 50 | -9.70 | -0.011493 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | NV | -30 | -2.30 | -0.002774 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | NV | -20 | -6.00 | -0.007238 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | NV | 0 | -13.10 | -0.015802 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | NV | 10 | -2.50 | -0.003016 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | NV | 20 | 2.30 | 0.002774 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | NV | 30 | -10.10 | -0.012183 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | NV | 40 | -2.90 | -0.003498 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20450 | 50RB#0 | NV | 50 | -10.30 | -0.012425 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | -30 | -1.20 | -0.001435 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | -20 | -1.70 | -0.002032 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | 0 | -1.30 | -0.001554 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | 10 | -4.90 | -0.005858 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | 20 | -6.00 | -0.007173 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | 30 | -9.30 | -0.011019 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | 40 | -9.00 | -0.010759 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20525 | 50RB#0 | NV | 50 | -10.80 | -0.012911 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | -30 | -9.40 | -0.011137 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | -20 | -10.90 | -0.012915 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | 0 | -12.20 | -0.014455 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | 10 | -8.50 | -0.010071 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | 20 | -1.30 | -0.001540 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | 30 | -12.60 | -0.014929 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | 40 | -9.30 | -0.011019 | ±2.5 | PASS |
| Band5 | 10MHz | 16QAM | 20600 | 50RB#0 | NV | 50 | -14.10 | -0.016706 | ±2.5 | PASS |

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