



Appendix B

E-UTRA Band 4



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1 Effective (Isotropic) Radiated Power

1.1. Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Conducted Power(dBm) | EIRP (dBm) | Limit (dBm) | Verdict |
|-------|-----------|------------|---------|------------------|----------------------|------------|-------------|---------|
| Band4 | 1.4MHz | QPSK | 19957 | 1RB#0 | 23.37 | 23.87 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 19957 | 1RB#5 | 23.39 | 23.89 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 19957 | 1RB#2 | 23.50 | 24.00 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 19957 | 3RB#3 | 23.48 | 23.98 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 19957 | 3RB#1 | 23.53 | 24.03 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 19957 | 3RB#0 | 23.49 | 23.99 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 19957 | 6RB#0 | 22.48 | 22.98 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 1RB#2 | 23.55 | 24.05 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 1RB#5 | 23.40 | 23.90 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 1RB#0 | 23.40 | 23.90 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 3RB#1 | 23.57 | 24.07 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 3RB#3 | 23.50 | 24.00 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 3RB#0 | 23.53 | 24.03 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 6RB#0 | 22.52 | 23.02 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 20393 | 1RB#0 | 23.35 | 23.85 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 20393 | 1RB#2 | 23.50 | 24.00 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 20393 | 1RB#5 | 23.35 | 23.85 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 20393 | 3RB#3 | 23.46 | 23.96 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 20393 | 3RB#1 | 23.51 | 24.01 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 20393 | 3RB#0 | 23.46 | 23.96 | 30.00 | PASS |
| Band4 | 1.4MHz | QPSK | 20393 | 6RB#0 | 22.48 | 22.98 | 30.00 | PASS |
| Band4 | 1.4MHz | 64QAM | 19957 | 1RB#2 | 21.56 | 22.06 | 30.00 | PASS |
| Band4 | 1.4MHz | 64QAM | 19957 | 1RB#5 | 21.46 | 21.96 | 30.00 | PASS |
| Band4 | 1.4MHz | 64QAM | 19957 | 1RB#0 | 21.44 | 21.94 | 30.00 | PASS |
| Band4 | 1.4MHz | 64QAM | 19957 | 3RB#0 | 21.50 | 22.00 | 30.00 | PASS |
| Band4 | 1.4MHz | 64QAM | 19957 | 3RB#1 | 21.54 | 22.04 | 30.00 | PASS |
| Band4 | 1.4MHz | 64QAM | 19957 | 3RB#3 | 21.49 | 21.99 | 30.00 | PASS |
| Band4 | 1.4MHz | 64QAM | 19957 | 6RB#0 | 20.45 | 20.95 | 30.00 | PASS |
| Band4 | 1.4MHz | 64QAM | 20175 | 1RB#5 | 21.48 | 21.98 | 30.00 | PASS |
| Band4 | 1.4MHz | 64QAM | 20175 | 1RB#0 | 21.55 | 22.05 | 30.00 | PASS |
| Band4 | 1.4MHz | 64QAM | 20175 | 1RB#2 | 21.65 | 22.15 | 30.00 | PASS |
| Band4 | 1.4MHz | 64QAM | 20175 | 3RB#3 | 21.55 | 22.05 | 30.00 | PASS |
| Band4 | 1.4MHz | 64QAM | 20175 | 3RB#0 | 21.54 | 22.04 | 30.00 | PASS |
| Band4 | 1.4MHz | 64QAM | 20175 | 3RB#1 | 21.66 | 22.16 | 30.00 | PASS |
| Band4 | 1.4MHz | 64QAM | 20175 | 6RB#0 | 20.54 | 21.04 | 30.00 | PASS |
| Band4 | 1.4MHz | 64QAM | 20393 | 1RB#5 | 21.48 | 21.98 | 30.00 | PASS |
| Band4 | 1.4MHz | 64QAM | 20393 | 1RB#0 | 21.53 | 22.03 | 30.00 | PASS |
| Band4 | 1.4MHz | 64QAM | 20393 | 1RB#2 | 21.64 | 22.14 | 30.00 | PASS |



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| | | | | | | | | |
|-------|--------|-------|-------|--------|-------|-------|-------|------|
| Band4 | 1.4MHz | 64QAM | 20393 | 3RB#1 | 21.61 | 22.11 | 30.00 | PASS |
| Band4 | 1.4MHz | 64QAM | 20393 | 3RB#3 | 21.58 | 22.08 | 30.00 | PASS |
| Band4 | 1.4MHz | 64QAM | 20393 | 3RB#0 | 21.56 | 22.06 | 30.00 | PASS |
| Band4 | 1.4MHz | 64QAM | 20393 | 6RB#0 | 20.48 | 20.98 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 19957 | 1RB#5 | 22.66 | 23.16 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 19957 | 1RB#2 | 22.73 | 23.23 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 19957 | 1RB#0 | 22.64 | 23.14 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 19957 | 3RB#3 | 22.57 | 23.07 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 19957 | 3RB#1 | 22.63 | 23.13 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 19957 | 3RB#0 | 22.58 | 23.08 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 19957 | 6RB#0 | 21.52 | 22.02 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 1RB#2 | 22.75 | 23.25 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 1RB#0 | 22.64 | 23.14 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 1RB#5 | 22.56 | 23.06 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 3RB#1 | 22.64 | 23.14 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 3RB#0 | 22.62 | 23.12 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 3RB#3 | 22.61 | 23.11 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 6RB#0 | 21.59 | 22.09 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 1RB#5 | 22.44 | 22.94 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 1RB#2 | 22.63 | 23.13 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 1RB#0 | 22.49 | 22.99 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 3RB#3 | 22.46 | 22.96 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 3RB#0 | 22.52 | 23.02 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 3RB#1 | 22.54 | 23.04 | 30.00 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 6RB#0 | 21.52 | 22.02 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 19965 | 1RB#14 | 23.43 | 23.93 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 19965 | 1RB#8 | 23.40 | 23.90 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 19965 | 1RB#0 | 23.43 | 23.93 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 19965 | 8RB#4 | 22.49 | 22.99 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 19965 | 8RB#0 | 22.45 | 22.95 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 19965 | 8RB#7 | 22.45 | 22.95 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 19965 | 15RB#0 | 22.46 | 22.96 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 20175 | 1RB#0 | 23.47 | 23.97 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 20175 | 1RB#8 | 23.47 | 23.97 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 20175 | 1RB#14 | 23.45 | 23.95 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 20175 | 8RB#0 | 22.51 | 23.01 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 20175 | 8RB#4 | 22.54 | 23.04 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 20175 | 8RB#7 | 22.52 | 23.02 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 20175 | 15RB#0 | 22.50 | 23.00 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 20385 | 1RB#14 | 23.40 | 23.90 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 20385 | 1RB#0 | 23.41 | 23.91 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 20385 | 1RB#8 | 23.41 | 23.91 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 20385 | 8RB#7 | 22.45 | 22.95 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 20385 | 8RB#0 | 22.45 | 22.95 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 20385 | 8RB#4 | 22.46 | 22.96 | 30.00 | PASS |
| Band4 | 3MHz | QPSK | 20385 | 15RB#0 | 22.47 | 22.97 | 30.00 | PASS |
| Band4 | 3MHz | 64QAM | 19965 | 1RB#0 | 21.50 | 22.00 | 30.00 | PASS |



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| | | | | | | | | |
|-------|------|-------|-------|---------|-------|-------|-------|------|
| Band4 | 3MHz | 64QAM | 19965 | 1RB#14 | 21.49 | 21.99 | 30.00 | PASS |
| Band4 | 3MHz | 64QAM | 19965 | 1RB#8 | 21.50 | 22.00 | 30.00 | PASS |
| Band4 | 3MHz | 64QAM | 19965 | 8RB#0 | 20.44 | 20.94 | 30.00 | PASS |
| Band4 | 3MHz | 64QAM | 19965 | 8RB#4 | 20.47 | 20.97 | 30.00 | PASS |
| Band4 | 3MHz | 64QAM | 19965 | 8RB#7 | 20.46 | 20.96 | 30.00 | PASS |
| Band4 | 3MHz | 64QAM | 19965 | 15RB#0 | 20.41 | 20.91 | 30.00 | PASS |
| Band4 | 3MHz | 64QAM | 20175 | 1RB#0 | 21.60 | 22.10 | 30.00 | PASS |
| Band4 | 3MHz | 64QAM | 20175 | 1RB#14 | 21.57 | 22.07 | 30.00 | PASS |
| Band4 | 3MHz | 64QAM | 20175 | 1RB#8 | 21.64 | 22.14 | 30.00 | PASS |
| Band4 | 3MHz | 64QAM | 20175 | 8RB#0 | 20.53 | 21.03 | 30.00 | PASS |
| Band4 | 3MHz | 64QAM | 20175 | 8RB#4 | 20.55 | 21.05 | 30.00 | PASS |
| Band4 | 3MHz | 64QAM | 20175 | 8RB#7 | 20.50 | 21.00 | 30.00 | PASS |
| Band4 | 3MHz | 64QAM | 20175 | 15RB#0 | 20.51 | 21.01 | 30.00 | PASS |
| Band4 | 3MHz | 64QAM | 20385 | 1RB#0 | 21.60 | 22.10 | 30.00 | PASS |
| Band4 | 3MHz | 64QAM | 20385 | 1RB#8 | 21.55 | 22.05 | 30.00 | PASS |
| Band4 | 3MHz | 64QAM | 20385 | 1RB#14 | 21.57 | 22.07 | 30.00 | PASS |
| Band4 | 3MHz | 64QAM | 20385 | 8RB#0 | 20.51 | 21.01 | 30.00 | PASS |
| Band4 | 3MHz | 64QAM | 20385 | 8RB#4 | 20.52 | 21.02 | 30.00 | PASS |
| Band4 | 3MHz | 64QAM | 20385 | 8RB#7 | 20.50 | 21.00 | 30.00 | PASS |
| Band4 | 3MHz | 64QAM | 20385 | 15RB#0 | 20.48 | 20.98 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 1RB#0 | 22.65 | 23.15 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 1RB#14 | 22.76 | 23.26 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 1RB#8 | 22.71 | 23.21 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 8RB#7 | 21.50 | 22.00 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 8RB#4 | 21.55 | 22.05 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 8RB#0 | 21.54 | 22.04 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 15RB#0 | 21.43 | 21.93 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 1RB#0 | 22.72 | 23.22 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 1RB#8 | 22.68 | 23.18 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 1RB#14 | 22.69 | 23.19 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 8RB#0 | 21.56 | 22.06 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 8RB#7 | 21.58 | 22.08 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 8RB#4 | 21.58 | 22.08 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 15RB#0 | 21.50 | 22.00 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 1RB#14 | 22.61 | 23.11 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 1RB#0 | 22.55 | 23.05 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 1RB#8 | 22.69 | 23.19 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 8RB#4 | 21.49 | 21.99 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 8RB#7 | 21.47 | 21.97 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 8RB#0 | 21.50 | 22.00 | 30.00 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 15RB#0 | 21.44 | 21.94 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 19975 | 1RB#24 | 23.32 | 23.82 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 19975 | 1RB#0 | 23.31 | 23.81 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 19975 | 1RB#12 | 23.58 | 24.08 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 19975 | 12RB#0 | 22.45 | 22.95 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 19975 | 12RB#6 | 22.50 | 23.00 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 19975 | 12RB#13 | 22.43 | 22.93 | 30.00 | PASS |



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| | | | | | | | | |
|-------|------|-------|-------|---------|-------|-------|-------|------|
| Band4 | 5MHz | QPSK | 19975 | 25RB#0 | 22.46 | 22.96 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 20175 | 1RB#12 | 23.63 | 24.13 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 20175 | 1RB#0 | 23.35 | 23.85 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 20175 | 1RB#24 | 23.34 | 23.84 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 20175 | 12RB#6 | 22.55 | 23.05 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 20175 | 12RB#13 | 22.46 | 22.96 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 20175 | 12RB#0 | 22.47 | 22.97 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 20175 | 25RB#0 | 22.48 | 22.98 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 20375 | 1RB#0 | 23.29 | 23.79 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 20375 | 1RB#12 | 23.56 | 24.06 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 20375 | 1RB#24 | 23.30 | 23.80 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 20375 | 12RB#13 | 22.41 | 22.91 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 20375 | 12RB#6 | 22.52 | 23.02 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 20375 | 12RB#0 | 22.42 | 22.92 | 30.00 | PASS |
| Band4 | 5MHz | QPSK | 20375 | 25RB#0 | 22.46 | 22.96 | 30.00 | PASS |
| Band4 | 5MHz | 64QAM | 19975 | 1RB#12 | 21.66 | 22.16 | 30.00 | PASS |
| Band4 | 5MHz | 64QAM | 19975 | 1RB#24 | 21.43 | 21.93 | 30.00 | PASS |
| Band4 | 5MHz | 64QAM | 19975 | 1RB#0 | 21.41 | 21.91 | 30.00 | PASS |
| Band4 | 5MHz | 64QAM | 19975 | 12RB#13 | 20.37 | 20.87 | 30.00 | PASS |
| Band4 | 5MHz | 64QAM | 19975 | 12RB#0 | 20.42 | 20.92 | 30.00 | PASS |
| Band4 | 5MHz | 64QAM | 19975 | 12RB#6 | 20.48 | 20.98 | 30.00 | PASS |
| Band4 | 5MHz | 64QAM | 19975 | 25RB#0 | 20.44 | 20.94 | 30.00 | PASS |
| Band4 | 5MHz | 64QAM | 20175 | 1RB#24 | 21.49 | 21.99 | 30.00 | PASS |
| Band4 | 5MHz | 64QAM | 20175 | 1RB#12 | 21.72 | 22.22 | 30.00 | PASS |
| Band4 | 5MHz | 64QAM | 20175 | 1RB#0 | 21.50 | 22.00 | 30.00 | PASS |
| Band4 | 5MHz | 64QAM | 20175 | 12RB#0 | 20.45 | 20.95 | 30.00 | PASS |
| Band4 | 5MHz | 64QAM | 20175 | 12RB#13 | 20.48 | 20.98 | 30.00 | PASS |
| Band4 | 5MHz | 64QAM | 20175 | 12RB#6 | 20.57 | 21.07 | 30.00 | PASS |
| Band4 | 5MHz | 64QAM | 20175 | 25RB#0 | 20.51 | 21.01 | 30.00 | PASS |
| Band4 | 5MHz | 64QAM | 20375 | 1RB#0 | 21.47 | 21.97 | 30.00 | PASS |
| Band4 | 5MHz | 64QAM | 20375 | 1RB#12 | 21.78 | 22.28 | 30.00 | PASS |
| Band4 | 5MHz | 64QAM | 20375 | 1RB#24 | 21.41 | 21.91 | 30.00 | PASS |
| Band4 | 5MHz | 64QAM | 20375 | 12RB#6 | 20.56 | 21.06 | 30.00 | PASS |
| Band4 | 5MHz | 64QAM | 20375 | 12RB#13 | 20.47 | 20.97 | 30.00 | PASS |
| Band4 | 5MHz | 64QAM | 20375 | 12RB#0 | 20.45 | 20.95 | 30.00 | PASS |
| Band4 | 5MHz | 64QAM | 20375 | 25RB#0 | 20.52 | 21.02 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 1RB#12 | 22.72 | 23.22 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 1RB#0 | 22.52 | 23.02 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 1RB#24 | 22.59 | 23.09 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 12RB#13 | 21.44 | 21.94 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 12RB#6 | 21.52 | 22.02 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 12RB#0 | 21.46 | 21.96 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 25RB#0 | 21.46 | 21.96 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 1RB#12 | 22.80 | 23.30 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 1RB#0 | 22.64 | 23.14 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 1RB#24 | 22.60 | 23.10 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 12RB#6 | 21.55 | 22.05 | 30.00 | PASS |



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| | | | | | | | | |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band4 | 5MHz | 16QAM | 20175 | 12RB#0 | 21.47 | 21.97 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 12RB#13 | 21.48 | 21.98 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 25RB#0 | 21.46 | 21.96 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 1RB#12 | 22.67 | 23.17 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 1RB#0 | 22.56 | 23.06 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 1RB#24 | 22.44 | 22.94 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 12RB#6 | 21.50 | 22.00 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 12RB#0 | 21.45 | 21.95 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 12RB#13 | 21.44 | 21.94 | 30.00 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 25RB#0 | 21.46 | 21.96 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20000 | 1RB#49 | 23.42 | 23.92 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20000 | 1RB#0 | 23.39 | 23.89 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20000 | 1RB#24 | 23.55 | 24.05 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20000 | 25RB#25 | 22.48 | 22.98 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20000 | 25RB#12 | 22.49 | 22.99 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20000 | 25RB#0 | 22.48 | 22.98 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20000 | 50RB#0 | 22.47 | 22.97 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20175 | 1RB#49 | 23.43 | 23.93 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20175 | 1RB#24 | 23.54 | 24.04 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20175 | 1RB#0 | 23.47 | 23.97 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20175 | 25RB#25 | 22.50 | 23.00 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20175 | 25RB#12 | 22.55 | 23.05 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20175 | 25RB#0 | 22.49 | 22.99 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20175 | 50RB#0 | 22.49 | 22.99 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20350 | 1RB#49 | 23.37 | 23.87 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20350 | 1RB#0 | 23.39 | 23.89 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20350 | 1RB#24 | 23.49 | 23.99 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20350 | 25RB#12 | 22.48 | 22.98 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20350 | 25RB#25 | 22.45 | 22.95 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20350 | 25RB#0 | 22.50 | 23.00 | 30.00 | PASS |
| Band4 | 10MHz | QPSK | 20350 | 50RB#0 | 22.47 | 22.97 | 30.00 | PASS |
| Band4 | 10MHz | 64QAM | 20000 | 1RB#24 | 21.71 | 22.21 | 30.00 | PASS |
| Band4 | 10MHz | 64QAM | 20000 | 1RB#49 | 21.58 | 22.08 | 30.00 | PASS |
| Band4 | 10MHz | 64QAM | 20000 | 1RB#0 | 21.53 | 22.03 | 30.00 | PASS |
| Band4 | 10MHz | 64QAM | 20000 | 25RB#12 | 20.49 | 20.99 | 30.00 | PASS |
| Band4 | 10MHz | 64QAM | 20000 | 25RB#25 | 20.47 | 20.97 | 30.00 | PASS |
| Band4 | 10MHz | 64QAM | 20000 | 25RB#0 | 20.49 | 20.99 | 30.00 | PASS |
| Band4 | 10MHz | 64QAM | 20000 | 50RB#0 | 20.45 | 20.95 | 30.00 | PASS |
| Band4 | 10MHz | 64QAM | 20175 | 1RB#0 | 21.65 | 22.15 | 30.00 | PASS |
| Band4 | 10MHz | 64QAM | 20175 | 1RB#24 | 21.69 | 22.19 | 30.00 | PASS |
| Band4 | 10MHz | 64QAM | 20175 | 1RB#49 | 21.66 | 22.16 | 30.00 | PASS |
| Band4 | 10MHz | 64QAM | 20175 | 25RB#25 | 20.52 | 21.02 | 30.00 | PASS |
| Band4 | 10MHz | 64QAM | 20175 | 25RB#0 | 20.50 | 21.00 | 30.00 | PASS |
| Band4 | 10MHz | 64QAM | 20175 | 25RB#12 | 20.56 | 21.06 | 30.00 | PASS |
| Band4 | 10MHz | 64QAM | 20175 | 50RB#0 | 20.52 | 21.02 | 30.00 | PASS |
| Band4 | 10MHz | 64QAM | 20350 | 1RB#49 | 21.56 | 22.06 | 30.00 | PASS |
| Band4 | 10MHz | 64QAM | 20350 | 1RB#0 | 21.62 | 22.12 | 30.00 | PASS |



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| | | | | | | | | |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band4 | 10MHz | 64QAM | 20350 | 1RB#24 | 21.74 | 22.24 | 30.00 | PASS |
| Band4 | 10MHz | 64QAM | 20350 | 25RB#0 | 20.55 | 21.05 | 30.00 | PASS |
| Band4 | 10MHz | 64QAM | 20350 | 25RB#25 | 20.53 | 21.03 | 30.00 | PASS |
| Band4 | 10MHz | 64QAM | 20350 | 25RB#12 | 20.55 | 21.05 | 30.00 | PASS |
| Band4 | 10MHz | 64QAM | 20350 | 50RB#0 | 20.52 | 21.02 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 1RB#24 | 22.81 | 23.31 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 1RB#0 | 22.66 | 23.16 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 1RB#49 | 22.66 | 23.16 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 25RB#12 | 21.49 | 21.99 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 25RB#0 | 21.50 | 22.00 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 25RB#25 | 21.48 | 21.98 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 50RB#0 | 21.47 | 21.97 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 1RB#0 | 22.65 | 23.15 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 1RB#49 | 22.71 | 23.21 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 1RB#24 | 22.80 | 23.30 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 25RB#0 | 21.50 | 22.00 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 25RB#25 | 21.49 | 21.99 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 25RB#12 | 21.53 | 22.03 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 50RB#0 | 21.48 | 21.98 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 1RB#0 | 22.64 | 23.14 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 1RB#24 | 22.66 | 23.16 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 1RB#49 | 22.51 | 23.01 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 25RB#25 | 21.46 | 21.96 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 25RB#0 | 21.50 | 22.00 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 25RB#12 | 21.46 | 21.96 | 30.00 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 50RB#0 | 21.45 | 21.95 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20025 | 1RB#38 | 23.47 | 23.97 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20025 | 1RB#74 | 23.40 | 23.90 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20025 | 1RB#0 | 23.32 | 23.82 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20025 | 36RB#39 | 22.53 | 23.03 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20025 | 36RB#18 | 22.56 | 23.06 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20025 | 36RB#0 | 22.49 | 22.99 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20025 | 75RB#0 | 22.50 | 23.00 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20175 | 1RB#38 | 23.47 | 23.97 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20175 | 1RB#0 | 23.39 | 23.89 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20175 | 1RB#74 | 23.33 | 23.83 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20175 | 36RB#0 | 22.49 | 22.99 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20175 | 36RB#18 | 22.54 | 23.04 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20175 | 36RB#39 | 22.51 | 23.01 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20175 | 75RB#0 | 22.50 | 23.00 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20325 | 1RB#74 | 23.28 | 23.78 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20325 | 1RB#0 | 23.30 | 23.80 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20325 | 1RB#38 | 23.41 | 23.91 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20325 | 36RB#0 | 22.51 | 23.01 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20325 | 36RB#39 | 22.42 | 22.92 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20325 | 36RB#18 | 22.49 | 22.99 | 30.00 | PASS |
| Band4 | 15MHz | QPSK | 20325 | 75RB#0 | 22.48 | 22.98 | 30.00 | PASS |



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| | | | | | | | | |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band4 | 15MHz | 64QAM | 20025 | 1RB#0 | 21.39 | 21.89 | 30.00 | PASS |
| Band4 | 15MHz | 64QAM | 20025 | 1RB#38 | 21.58 | 22.08 | 30.00 | PASS |
| Band4 | 15MHz | 64QAM | 20025 | 1RB#74 | 21.52 | 22.02 | 30.00 | PASS |
| Band4 | 15MHz | 64QAM | 20025 | 36RB#0 | 20.45 | 20.95 | 30.00 | PASS |
| Band4 | 15MHz | 64QAM | 20025 | 36RB#18 | 20.48 | 20.98 | 30.00 | PASS |
| Band4 | 15MHz | 64QAM | 20025 | 36RB#39 | 20.49 | 20.99 | 30.00 | PASS |
| Band4 | 15MHz | 64QAM | 20025 | 75RB#0 | 20.48 | 20.98 | 30.00 | PASS |
| Band4 | 15MHz | 64QAM | 20175 | 1RB#74 | 21.52 | 22.02 | 30.00 | PASS |
| Band4 | 15MHz | 64QAM | 20175 | 1RB#0 | 21.55 | 22.05 | 30.00 | PASS |
| Band4 | 15MHz | 64QAM | 20175 | 1RB#38 | 21.65 | 22.15 | 30.00 | PASS |
| Band4 | 15MHz | 64QAM | 20175 | 36RB#39 | 20.51 | 21.01 | 30.00 | PASS |
| Band4 | 15MHz | 64QAM | 20175 | 36RB#0 | 20.47 | 20.97 | 30.00 | PASS |
| Band4 | 15MHz | 64QAM | 20175 | 36RB#18 | 20.52 | 21.02 | 30.00 | PASS |
| Band4 | 15MHz | 64QAM | 20175 | 75RB#0 | 20.51 | 21.01 | 30.00 | PASS |
| Band4 | 15MHz | 64QAM | 20325 | 1RB#74 | 21.46 | 21.96 | 30.00 | PASS |
| Band4 | 15MHz | 64QAM | 20325 | 1RB#0 | 21.43 | 21.93 | 30.00 | PASS |
| Band4 | 15MHz | 64QAM | 20325 | 1RB#38 | 21.60 | 22.10 | 30.00 | PASS |
| Band4 | 15MHz | 64QAM | 20325 | 36RB#39 | 20.48 | 20.98 | 30.00 | PASS |
| Band4 | 15MHz | 64QAM | 20325 | 36RB#18 | 20.51 | 21.01 | 30.00 | PASS |
| Band4 | 15MHz | 64QAM | 20325 | 36RB#0 | 20.52 | 21.02 | 30.00 | PASS |
| Band4 | 15MHz | 64QAM | 20325 | 75RB#0 | 20.54 | 21.04 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 1RB#0 | 22.66 | 23.16 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 1RB#38 | 22.74 | 23.24 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 1RB#74 | 22.61 | 23.11 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 36RB#0 | 21.46 | 21.96 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 36RB#18 | 21.51 | 22.01 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 36RB#39 | 21.52 | 22.02 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 75RB#0 | 21.51 | 22.01 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 1RB#74 | 22.53 | 23.03 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 1RB#38 | 22.75 | 23.25 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 1RB#0 | 22.67 | 23.17 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 36RB#0 | 21.47 | 21.97 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 36RB#18 | 21.55 | 22.05 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 36RB#39 | 21.51 | 22.01 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 75RB#0 | 21.50 | 22.00 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 1RB#0 | 22.61 | 23.11 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 1RB#38 | 22.57 | 23.07 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 1RB#74 | 22.57 | 23.07 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 36RB#18 | 21.50 | 22.00 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 36RB#39 | 21.41 | 21.91 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 36RB#0 | 21.48 | 21.98 | 30.00 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 75RB#0 | 21.45 | 21.95 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 1RB#0 | 23.13 | 23.63 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 1RB#49 | 23.55 | 24.05 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 1RB#99 | 23.21 | 23.71 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 50RB#50 | 22.57 | 23.07 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 50RB#25 | 22.57 | 23.07 | 30.00 | PASS |



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| | | | | | | | | |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band4 | 20MHz | QPSK | 20050 | 50RB#0 | 22.48 | 22.98 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 100RB#0 | 22.54 | 23.04 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 1RB#99 | 23.11 | 23.61 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 1RB#0 | 23.22 | 23.72 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 1RB#49 | 23.54 | 24.04 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 50RB#50 | 22.47 | 22.97 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 50RB#25 | 22.54 | 23.04 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 50RB#0 | 22.48 | 22.98 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | 22.46 | 22.96 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 1RB#0 | 23.16 | 23.66 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 1RB#99 | 23.08 | 23.58 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 1RB#49 | 23.53 | 24.03 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 50RB#50 | 22.42 | 22.92 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 50RB#25 | 22.54 | 23.04 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 50RB#0 | 22.56 | 23.06 | 30.00 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 100RB#0 | 22.50 | 23.00 | 30.00 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 1RB#99 | 21.32 | 21.82 | 30.00 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 1RB#49 | 21.67 | 22.17 | 30.00 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 1RB#0 | 21.22 | 21.72 | 30.00 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 50RB#50 | 20.60 | 21.10 | 30.00 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 50RB#25 | 20.54 | 21.04 | 30.00 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 50RB#0 | 20.49 | 20.99 | 30.00 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 100RB#0 | 20.55 | 21.05 | 30.00 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 1RB#49 | 21.73 | 22.23 | 30.00 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 1RB#99 | 21.38 | 21.88 | 30.00 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 1RB#0 | 21.35 | 21.85 | 30.00 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 50RB#0 | 20.48 | 20.98 | 30.00 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 50RB#25 | 20.55 | 21.05 | 30.00 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 50RB#50 | 20.48 | 20.98 | 30.00 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 100RB#0 | 20.47 | 20.97 | 30.00 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 1RB#99 | 21.31 | 21.81 | 30.00 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 1RB#0 | 21.30 | 21.80 | 30.00 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 1RB#49 | 21.75 | 22.25 | 30.00 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 50RB#0 | 20.59 | 21.09 | 30.00 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 50RB#25 | 20.58 | 21.08 | 30.00 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 50RB#50 | 20.48 | 20.98 | 30.00 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 100RB#0 | 20.57 | 21.07 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 1RB#0 | 22.42 | 22.92 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 1RB#49 | 22.81 | 23.31 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 1RB#99 | 22.52 | 23.02 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 50RB#50 | 21.57 | 22.07 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 50RB#0 | 21.48 | 21.98 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 50RB#25 | 21.55 | 22.05 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | 21.56 | 22.06 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 1RB#0 | 22.49 | 22.99 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 1RB#49 | 22.81 | 23.31 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 1RB#99 | 22.43 | 22.93 | 30.00 | PASS |



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| | | | | | | | | |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band4 | 20MHz | 16QAM | 20175 | 50RB#50 | 21.47 | 21.97 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 50RB#0 | 21.46 | 21.96 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 50RB#25 | 21.54 | 22.04 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | 21.48 | 21.98 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 1RB#0 | 22.41 | 22.91 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 1RB#99 | 22.33 | 22.83 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 1RB#49 | 22.68 | 23.18 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 50RB#50 | 21.40 | 21.90 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 50RB#25 | 21.48 | 21.98 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 50RB#0 | 21.53 | 22.03 | 30.00 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | 21.48 | 21.98 | 30.00 | PASS |

Remark:

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

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

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



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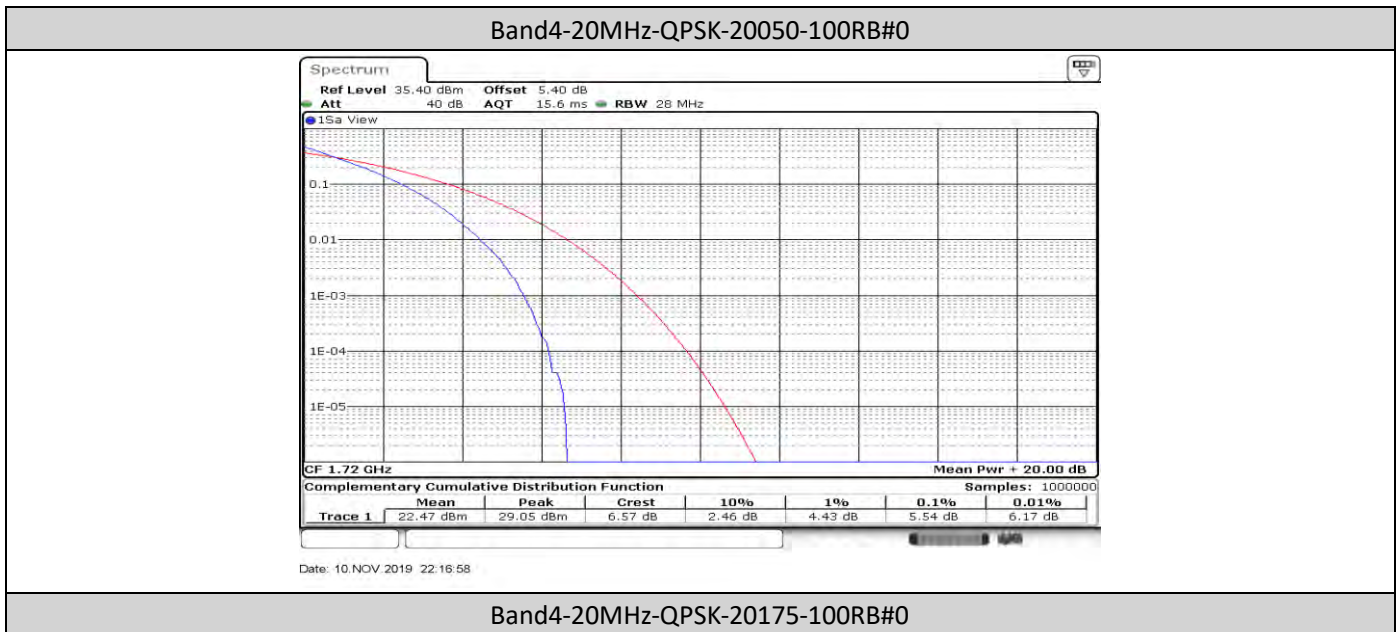


2. Peak-to-Average Ratio (CCDF)

2.1. Test Result

| Band | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|-------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band4 | 20MHz | QPSK | 20050 | 100RB#0 | 5.54 | 13 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | 5.30 | 13 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 100RB#0 | 5.07 | 13 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 100RB#0 | 6.64 | 13 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 100RB#0 | 6.58 | 13 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 100RB#0 | 6.41 | 13 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | 6.35 | 13 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | 6.17 | 13 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | 5.94 | 13 | PASS |

2.2. Test Plots



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Date: 10.NOV.2019 22:17:18

Band4-20MHz-QPSK-20300-100RB#0



Date: 10.NOV.2019 22:17:37

Band4-20MHz-64QAM-20050-100RB#0



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Date: 28.NOV.2019 19:06:38

Band4-20MHz-64QAM-20175-100RB#0



Date: 28.NOV.2019 19:06:49

Band4-20MHz-64QAM-20300-100RB#0



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Band4-20MHz-16QAM-20050-100RB#0



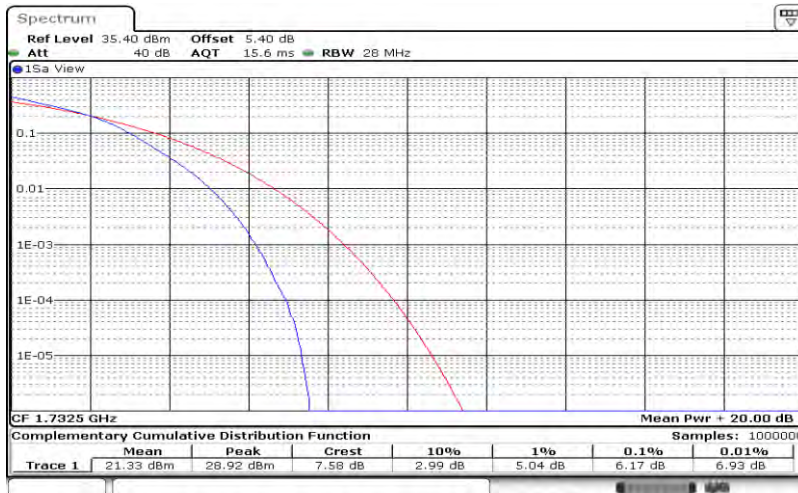
Band4-20MHz-16QAM-20175-100RB#0



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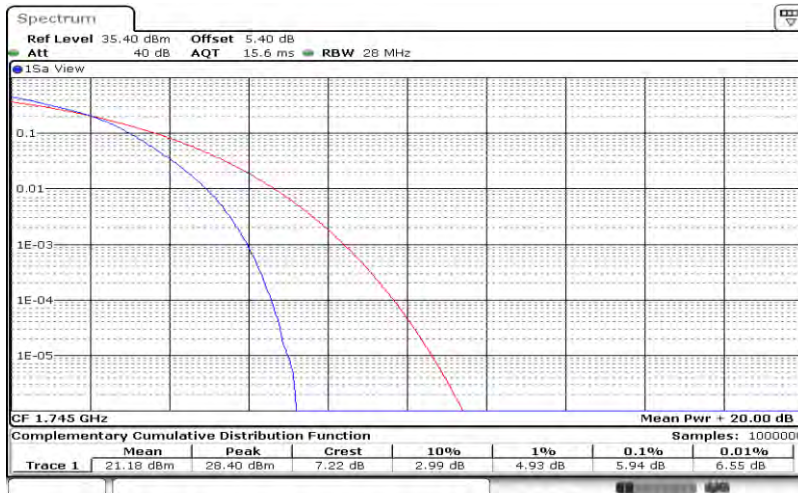
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Date: 10.NOV.2019 22:17:26

Band4-20MHz-16QAM-20300-100RB#0



Date: 10.NOV.2019 22:17:46



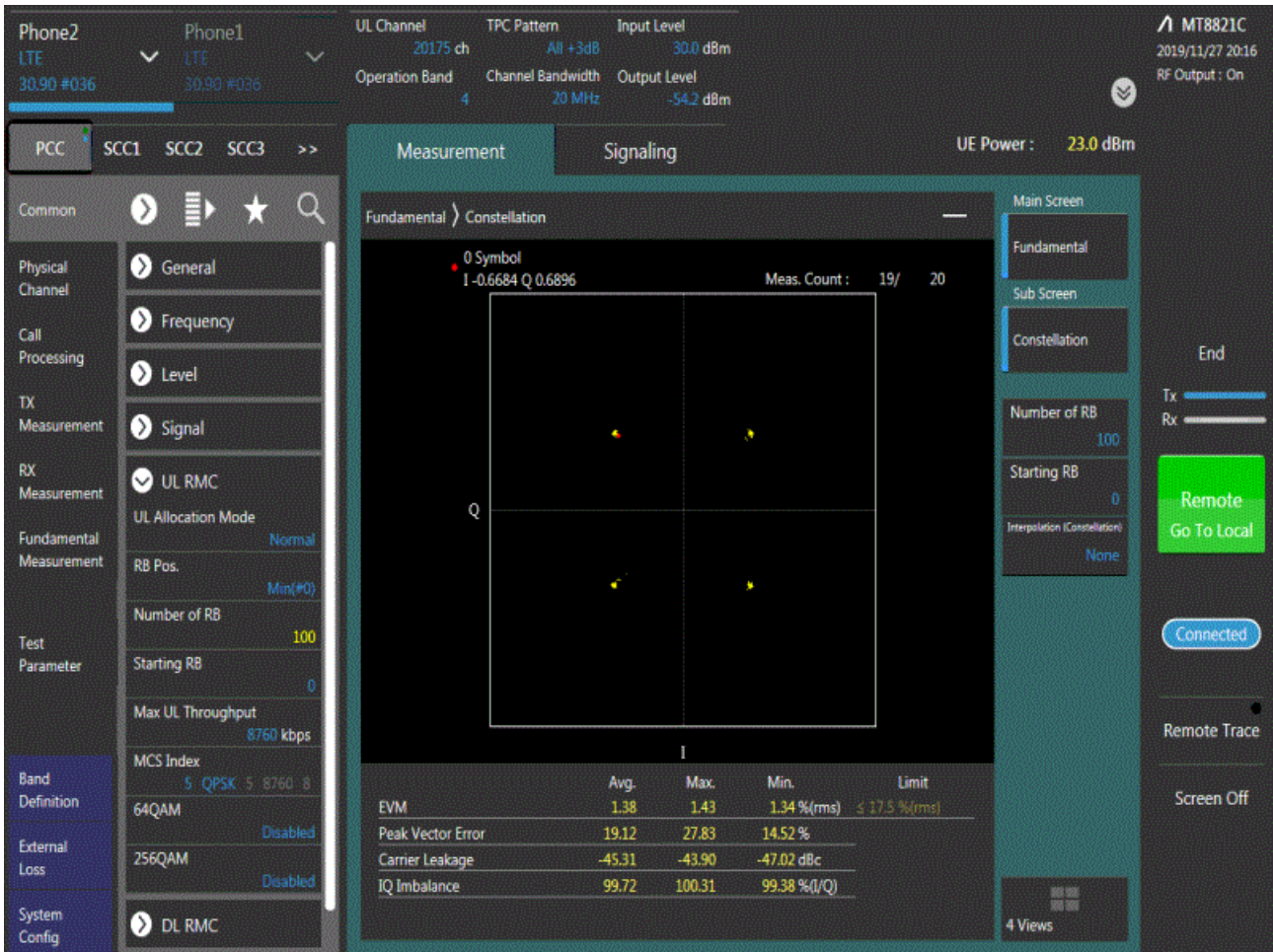
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3. Modulation Characteristics

3.1. Test Mode = LTE /TM1 20MHz

3.1.1. Test Channel = MCH



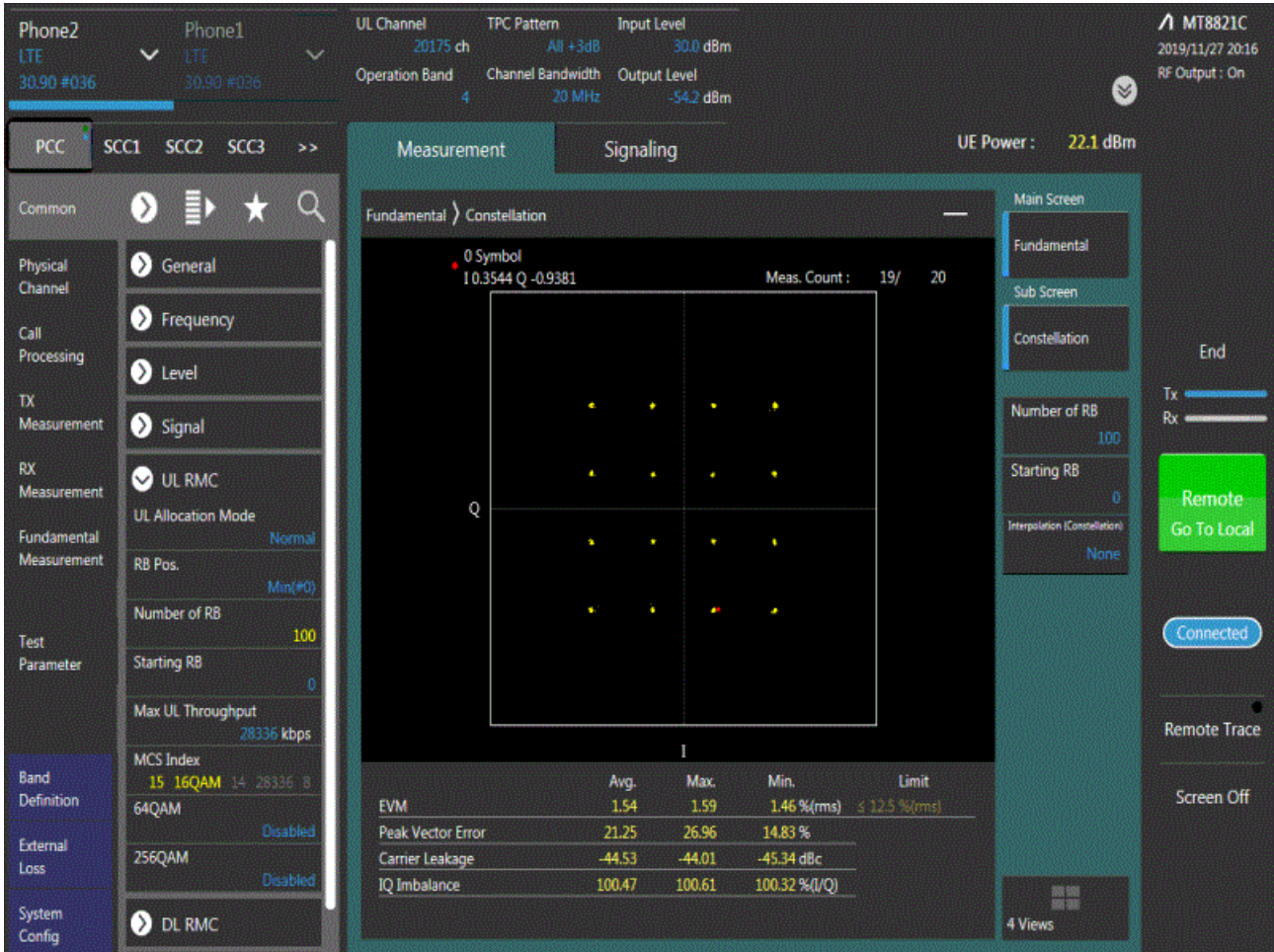
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3.2. Test Mode = LTE /TM2 20MHz

3.2.1. Test Channel = MCH

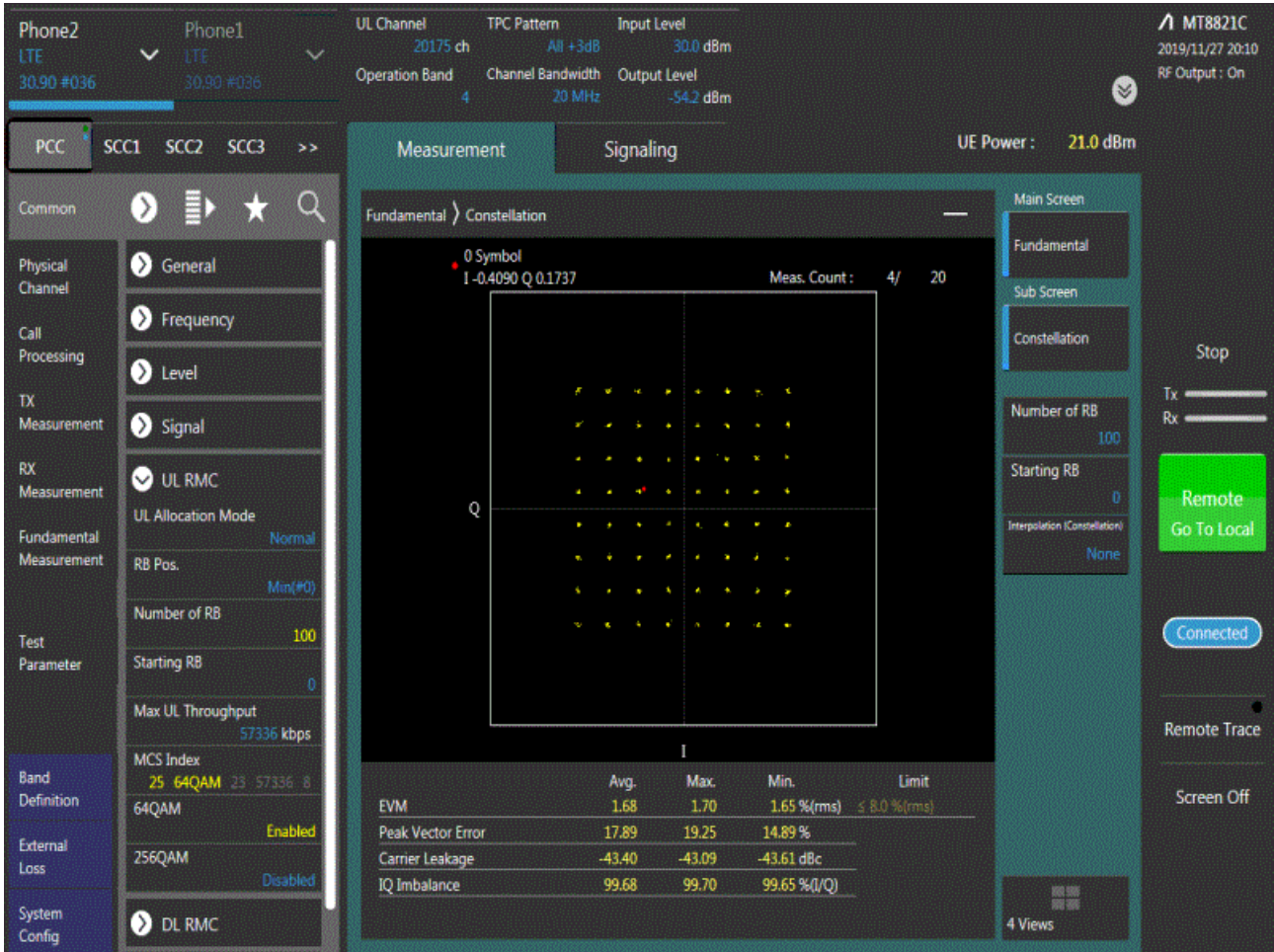


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3.3. Test Mode = LTE /TM3 20MHz

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 |
|-------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band4 | 1.4MHz | QPSK | 19957 | 6RB#0 | 1.097 | 1.287 | PASS |
| Band4 | 1.4MHz | QPSK | 20175 | 6RB#0 | 1.109 | 1.278 | PASS |
| Band4 | 1.4MHz | QPSK | 20393 | 6RB#0 | 1.097 | 1.281 | PASS |
| Band4 | 1.4MHz | 64QAM | 19957 | 6RB#0 | 1.097 | 1.290 | PASS |
| Band4 | 1.4MHz | 64QAM | 20175 | 6RB#0 | 1.091 | 1.263 | PASS |
| Band4 | 1.4MHz | 64QAM | 20393 | 6RB#0 | 1.094 | 1.278 | PASS |
| Band4 | 1.4MHz | 16QAM | 19957 | 6RB#0 | 1.094 | 1.287 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 6RB#0 | 1.1 | 1.299 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 6RB#0 | 1.094 | 1.290 | PASS |
| Band4 | 3MHz | QPSK | 19965 | 15RB#0 | 2.685 | 2.916 | PASS |
| Band4 | 3MHz | QPSK | 20175 | 15RB#0 | 2.685 | 2.904 | PASS |
| Band4 | 3MHz | QPSK | 20385 | 15RB#0 | 2.679 | 2.916 | PASS |
| Band4 | 3MHz | 64QAM | 19965 | 15RB#0 | 2.685 | 2.910 | PASS |
| Band4 | 3MHz | 64QAM | 20175 | 15RB#0 | 2.679 | 2.910 | PASS |
| Band4 | 3MHz | 64QAM | 20385 | 15RB#0 | 2.685 | 2.910 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 15RB#0 | 2.685 | 2.922 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 15RB#0 | 2.685 | 2.910 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 15RB#0 | 2.679 | 2.928 | PASS |
| Band4 | 5MHz | QPSK | 19975 | 25RB#0 | 4.466 | 4.840 | PASS |
| Band4 | 5MHz | QPSK | 20175 | 25RB#0 | 4.476 | 4.860 | PASS |
| Band4 | 5MHz | QPSK | 20375 | 25RB#0 | 4.476 | 4.860 | PASS |
| Band4 | 5MHz | 64QAM | 19975 | 25RB#0 | 4.476 | 4.820 | PASS |
| Band4 | 5MHz | 64QAM | 20175 | 25RB#0 | 4.466 | 4.820 | PASS |
| Band4 | 5MHz | 64QAM | 20375 | 25RB#0 | 4.456 | 4.830 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 25RB#0 | 4.466 | 4.870 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 25RB#0 | 4.476 | 4.870 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 25RB#0 | 4.466 | 4.780 | PASS |
| Band4 | 10MHz | QPSK | 20000 | 50RB#0 | 8.951 | 9.640 | PASS |
| Band4 | 10MHz | QPSK | 20175 | 50RB#0 | 8.931 | 9.640 | PASS |
| Band4 | 10MHz | QPSK | 20350 | 50RB#0 | 8.931 | 9.540 | PASS |
| Band4 | 10MHz | 64QAM | 20000 | 50RB#0 | 8.911 | 9.560 | PASS |



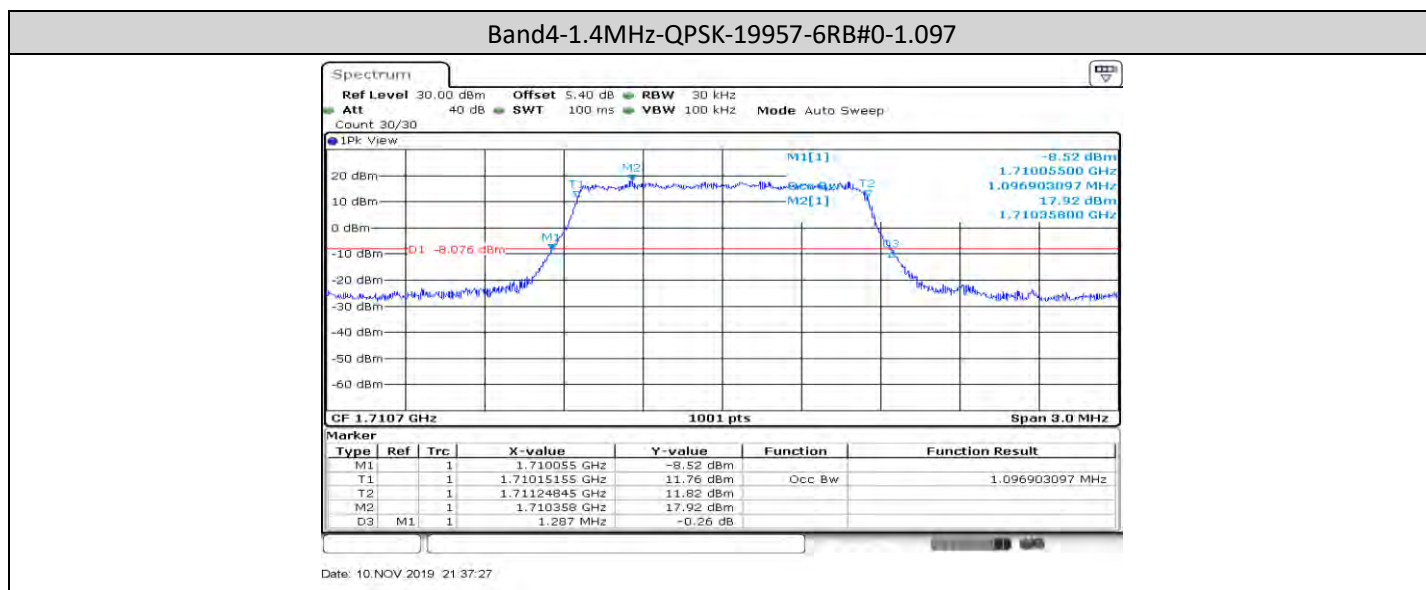
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 中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



| | | | | | | | |
|-------|-------|-------|-------|---------|--------|--------|------|
| Band4 | 10MHz | 64QAM | 20175 | 50RB#0 | 8.931 | 9.500 | PASS |
| Band4 | 10MHz | 64QAM | 20350 | 50RB#0 | 8.931 | 9.520 | PASS |
| Band4 | 10MHz | 16QAM | 20000 | 50RB#0 | 8.911 | 9.520 | PASS |
| Band4 | 10MHz | 16QAM | 20175 | 50RB#0 | 8.931 | 9.580 | PASS |
| Band4 | 10MHz | 16QAM | 20350 | 50RB#0 | 8.931 | 9.560 | PASS |
| Band4 | 15MHz | QPSK | 20025 | 75RB#0 | 13.427 | 14.790 | PASS |
| Band4 | 15MHz | QPSK | 20175 | 75RB#0 | 13.487 | 14.670 | PASS |
| Band4 | 15MHz | QPSK | 20325 | 75RB#0 | 13.457 | 14.790 | PASS |
| Band4 | 15MHz | 64QAM | 20025 | 75RB#0 | 13.427 | 14.700 | PASS |
| Band4 | 15MHz | 64QAM | 20175 | 75RB#0 | 13.427 | 14.610 | PASS |
| Band4 | 15MHz | 64QAM | 20325 | 75RB#0 | 13.397 | 14.670 | PASS |
| Band4 | 15MHz | 16QAM | 20025 | 75RB#0 | 13.457 | 14.700 | PASS |
| Band4 | 15MHz | 16QAM | 20175 | 75RB#0 | 13.457 | 14.730 | PASS |
| Band4 | 15MHz | 16QAM | 20325 | 75RB#0 | 13.457 | 14.640 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 100RB#0 | 17.902 | 19.280 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | 17.862 | 19.240 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 100RB#0 | 17.902 | 19.200 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 100RB#0 | 17.902 | 19.320 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 100RB#0 | 17.862 | 19.320 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 100RB#0 | 17.822 | 19.240 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | 17.942 | 19.400 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | 17.862 | 19.320 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | 17.862 | 19.320 | PASS |

4.2. Test Plots

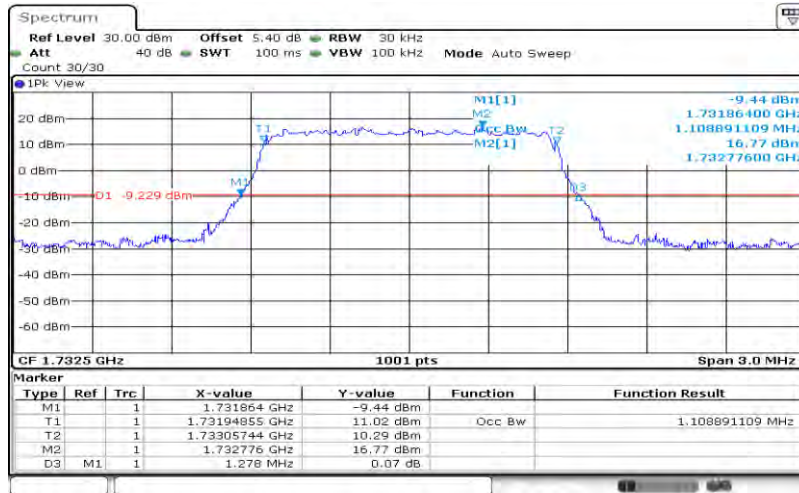


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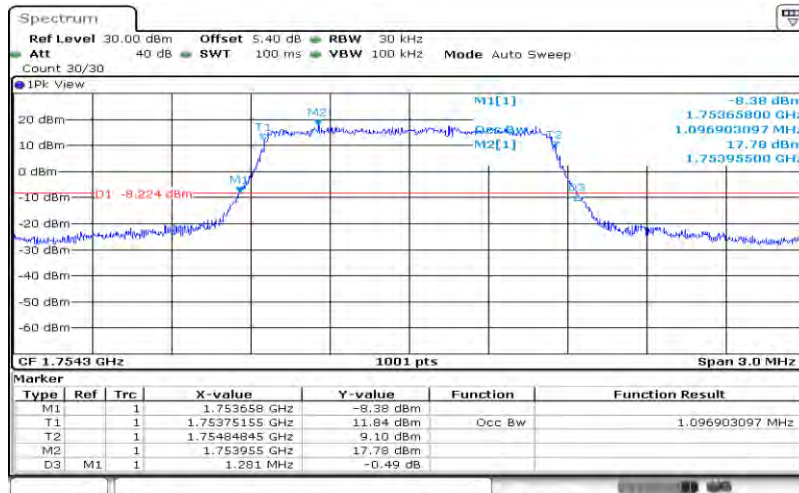
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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
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Band4-1.4MHz-QPSK-20175-6RB#0-1.109



Date: 10.NOV 2019 21:38:56

Band4-1.4MHz-QPSK-20393-6RB#0-1.097

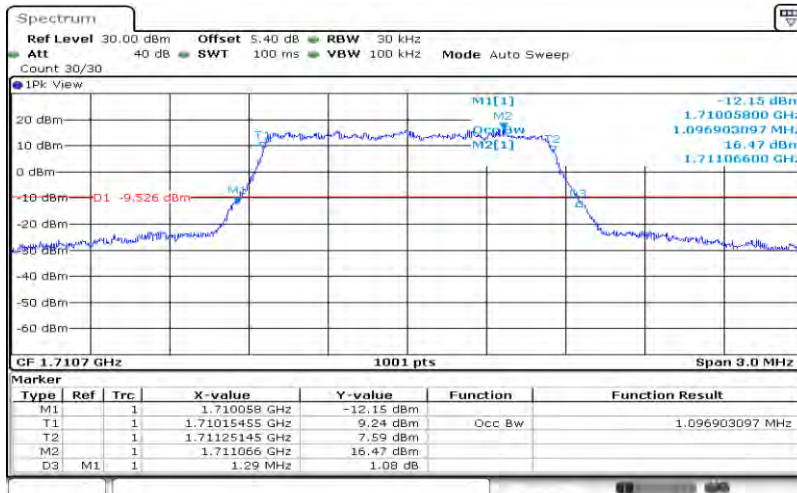


Date: 10.NOV 2019 21:40:26

Band4-1.4MHz-64QAM-19957-6RB#0-1.097

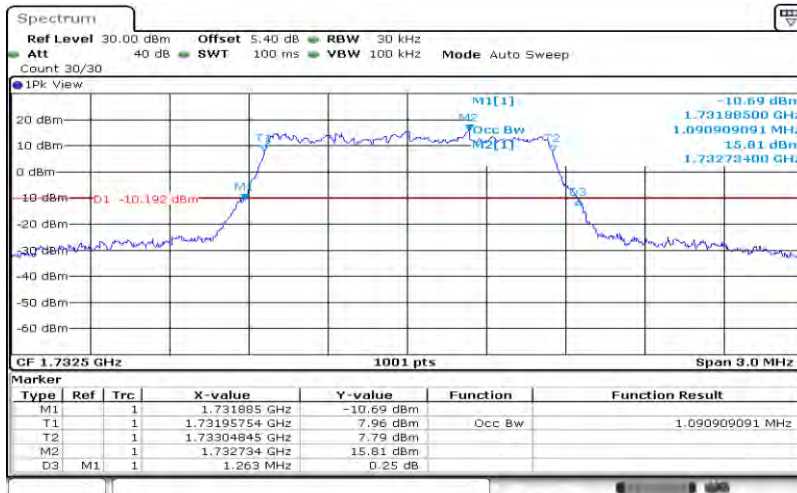


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Date: 28.NOV.2019 18:51:22

Band4-1.4MHz-64QAM-20175-6RB#0-1.091

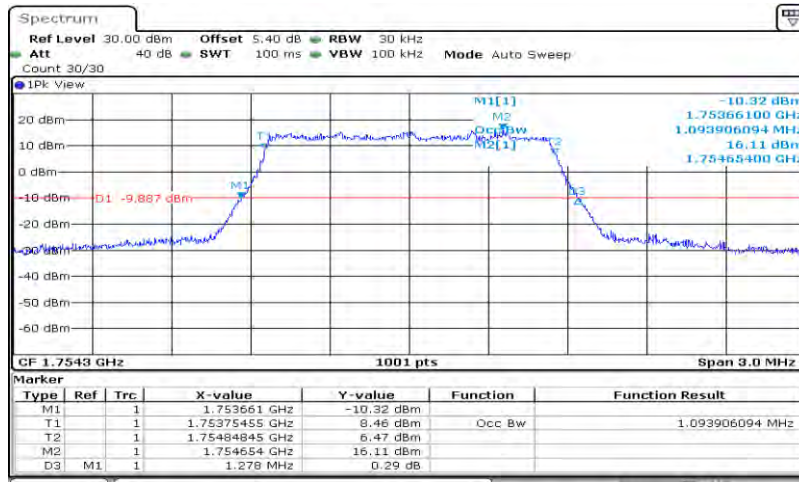


Date: 28.NOV.2019 18:51:35

Band4-1.4MHz-64QAM-20393-6RB#0-1.094

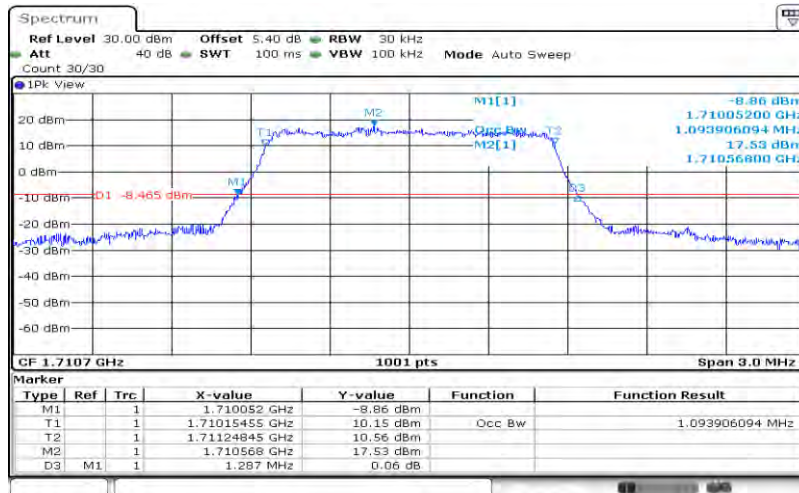


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Date: 28.NOV.2019 18:51:48

Band4-1.4MHz-16QAM-19957-6RB#0-1.094

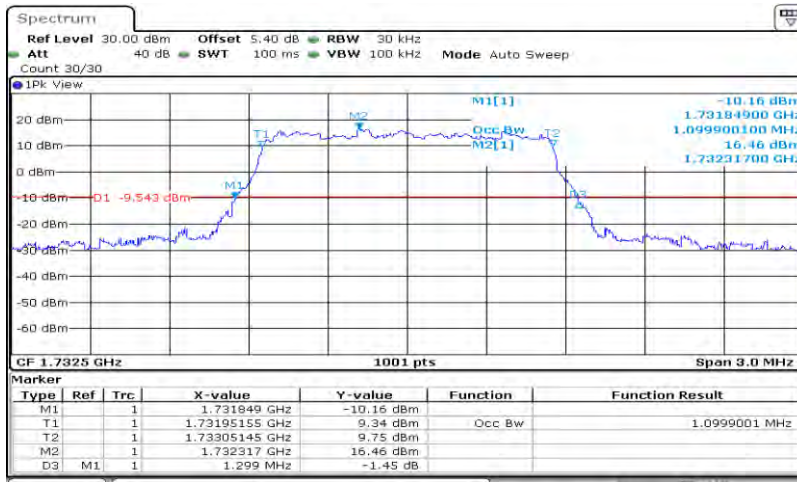


Date: 10.NOV.2019 21:37:36

Band4-1.4MHz-16QAM-20175-6RB#0-1.1

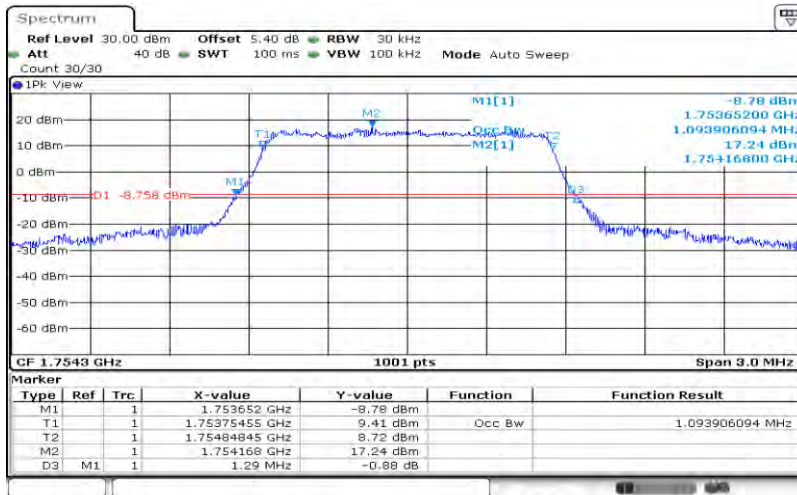


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Date: 10.NOV.2019 21:39:06

Band4-1.4MHz-16QAM-20393-6RB#0-1.094

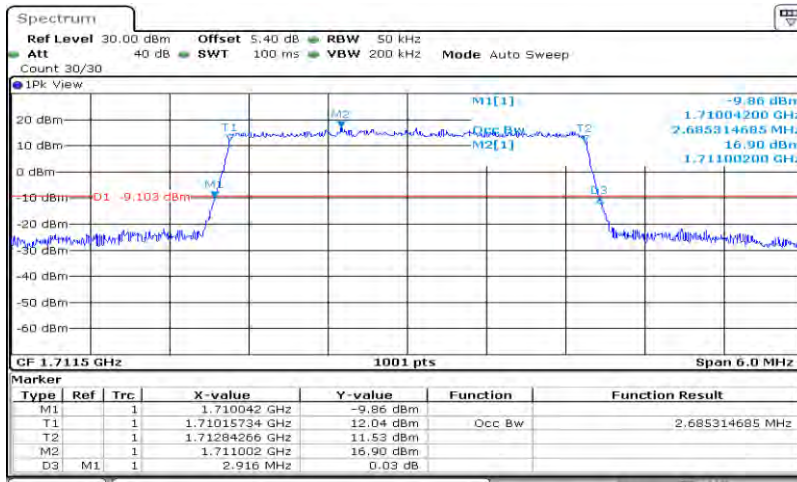


Date: 10.NOV.2019 21:40:36

Band4-3MHz-QPSK-19965-15RB#0-2.685

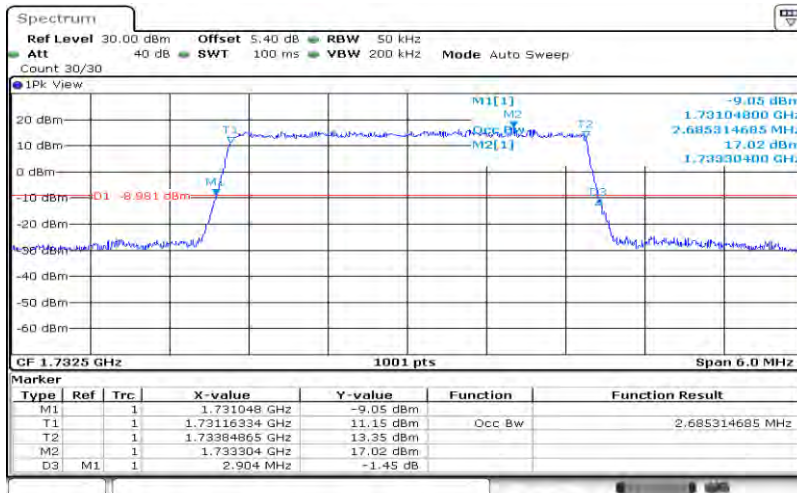


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Date: 10.NOV.2019 21:42:09

Band4-3MHz-QPSK-20175-15RB#0-2.685

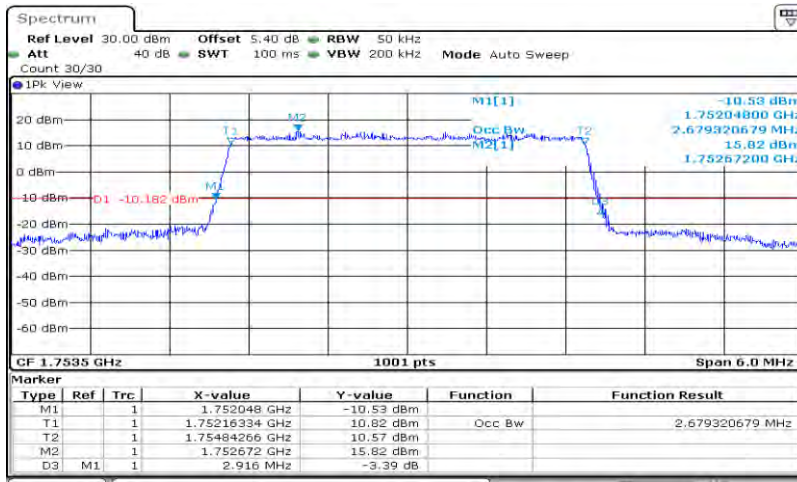


Date: 10.NOV.2019 21:42:32

Band4-3MHz-QPSK-20385-15RB#0-2.679

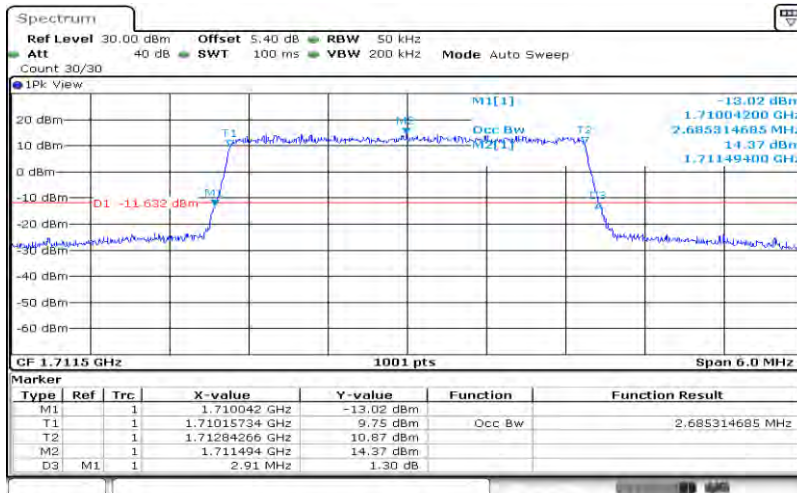


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Date: 10.NOV.2019 21:42:54

Band4-3MHz-64QAM-19965-15RB#0-2.685

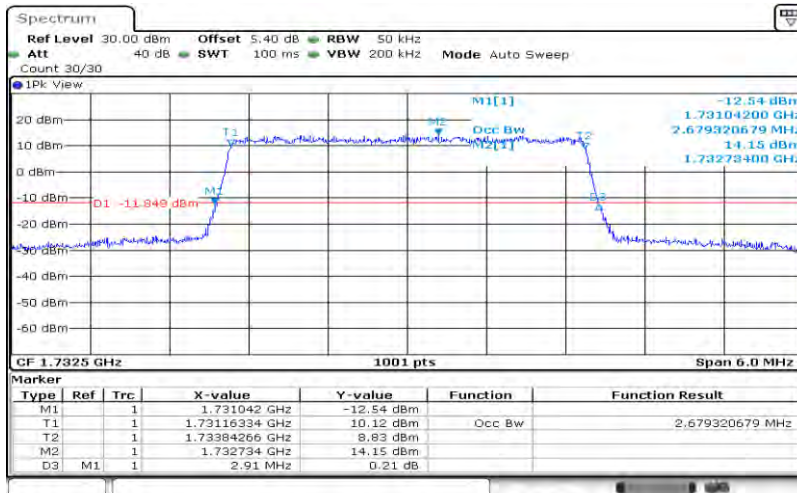


Date: 28.NOV.2019 18:52:05

Band4-3MHz-64QAM-20175-15RB#0-2.679

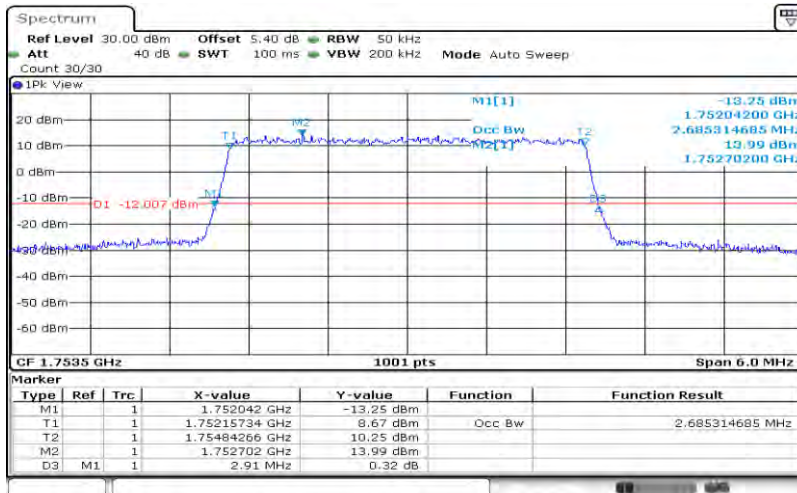


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Date: 28.NOV.2019 18:52:18

Band4-3MHz-64QAM-20385-15RB#0-2.685

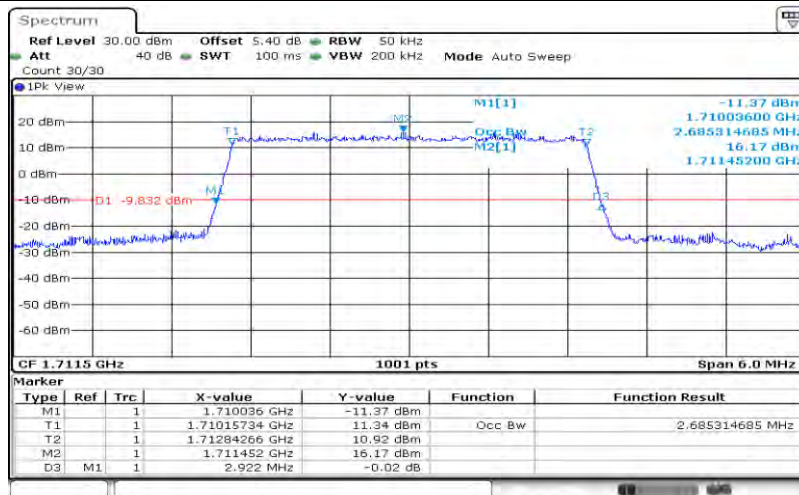


Date: 28.NOV.2019 18:52:31

Band4-3MHz-16QAM-19965-15RB#0-2.685

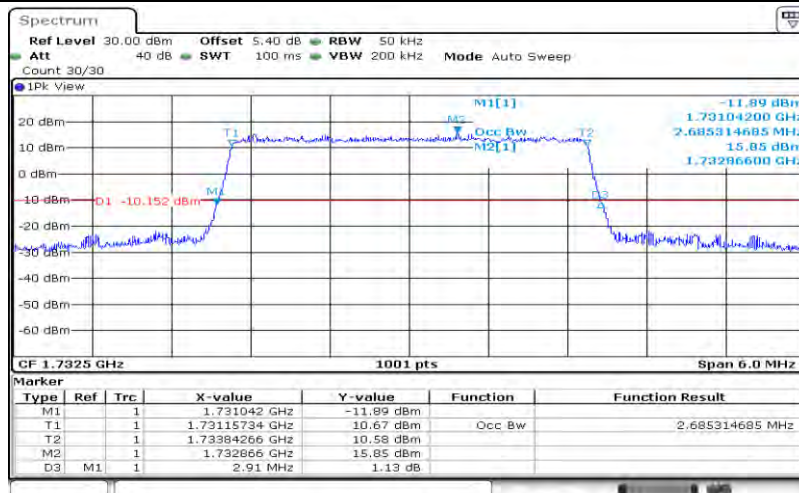


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Date: 10.NOV.2019 21:42:19

Band4-3MHz-16QAM-20175-15RB#0-2.685

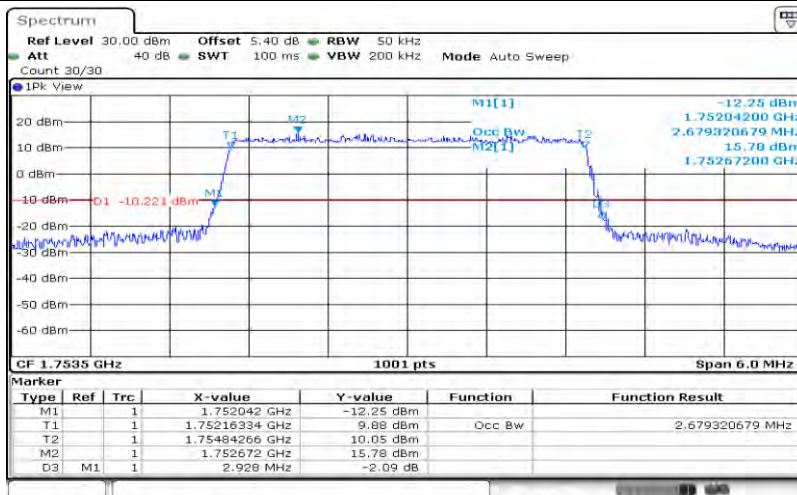


Date: 10.NOV.2019 21:42:41

Band4-3MHz-16QAM-20385-15RB#0-2.679

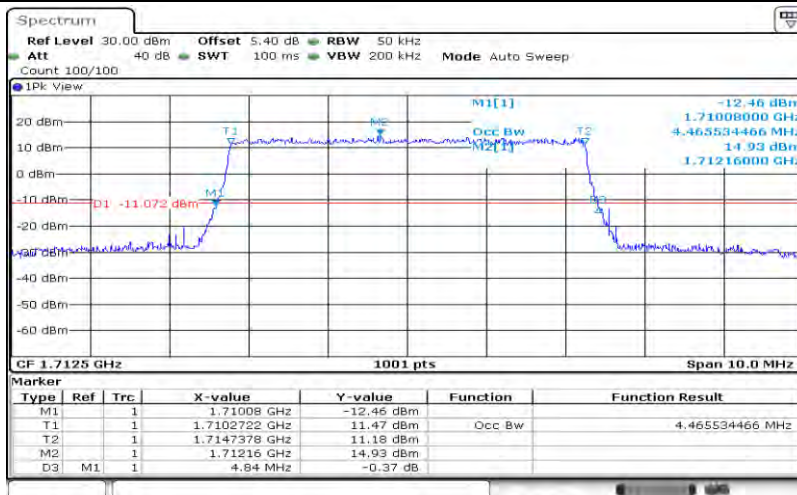


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Date: 10.NOV.2019 21:43:03

Band4-5MHz-QPSK-19975-25RB#0-4.466

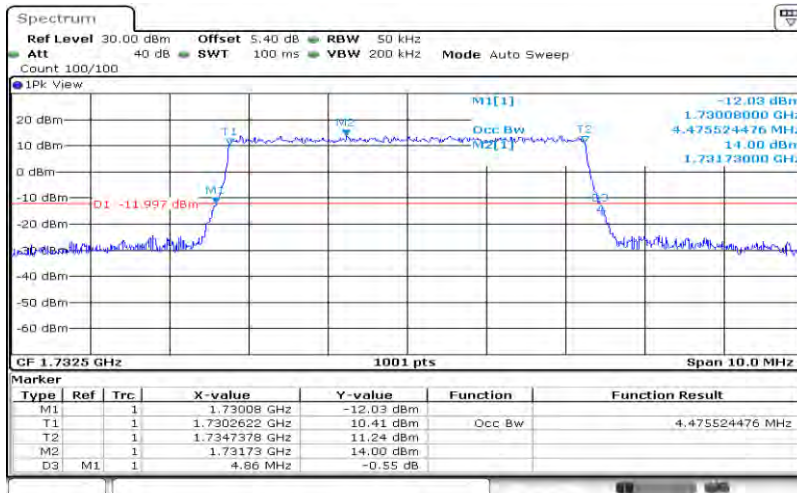


Date: 10.NOV.2019 21:44:15

Band4-5MHz-QPSK-20175-25RB#0-4.476

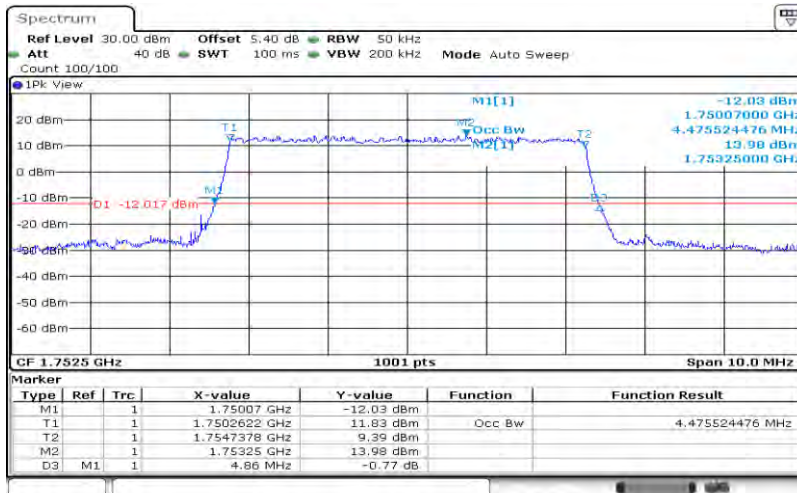


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Date: 10.NOV.2019 21:44:52

Band4-5MHz-QPSK-20375-25RB#0-4.476

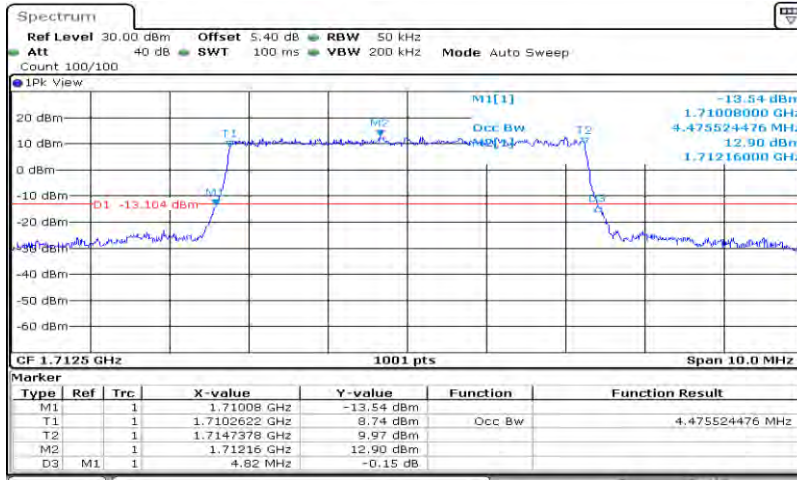


Date: 10.NOV.2019 21:45:28

Band4-5MHz-64QAM-19975-25RB#0-4.476

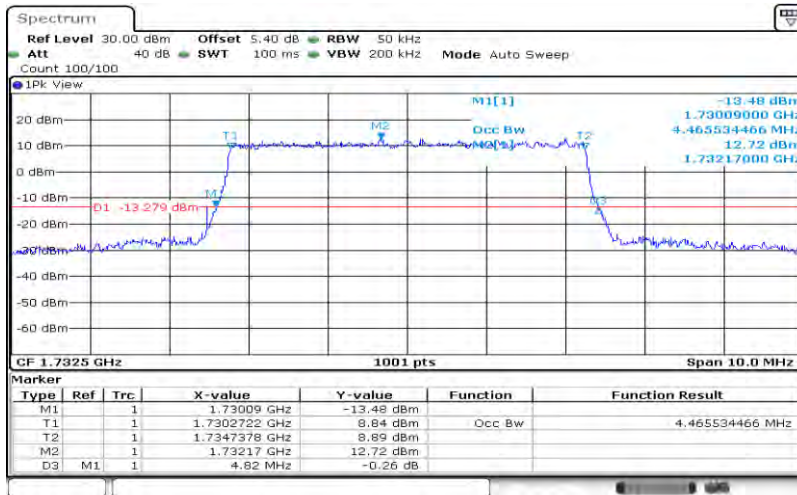


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Date: 28.NOV.2019 18:52:56

Band4-5MHz-64QAM-20175-25RB#0-4.466

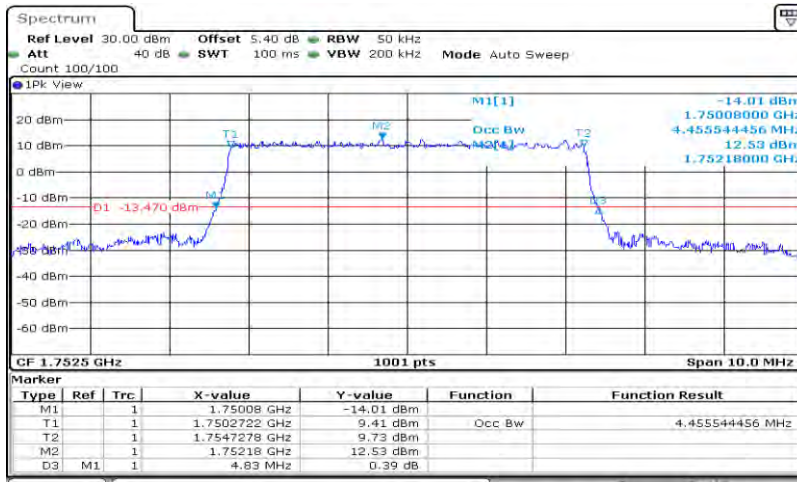


Date: 28.NOV.2019 18:53:16

Band4-5MHz-64QAM-20375-25RB#0-4.456

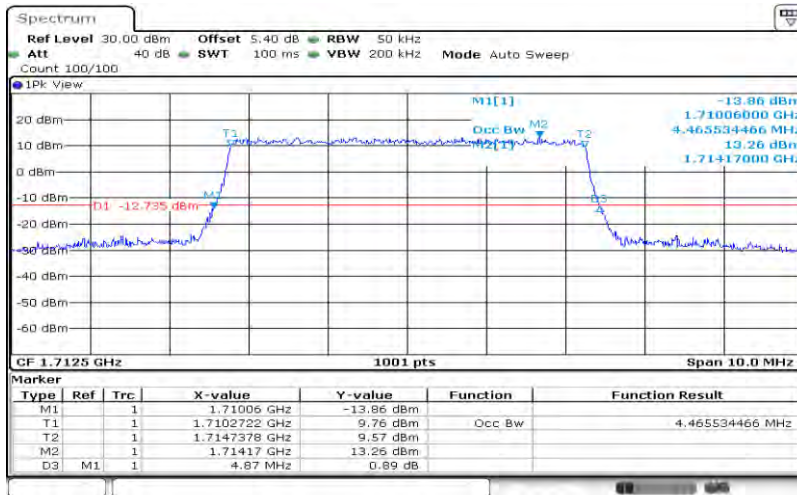


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Date: 26.NOV 2019 18:53:36

Band4-5MHz-16QAM-19975-25RB#0-4.466



Date: 10.NOV 2019 21:44:32

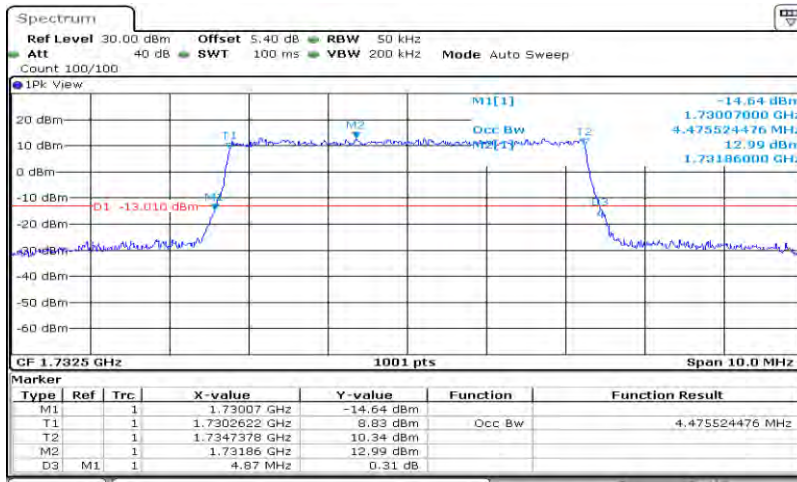
Band4-5MHz-16QAM-20175-25RB#0-4.476



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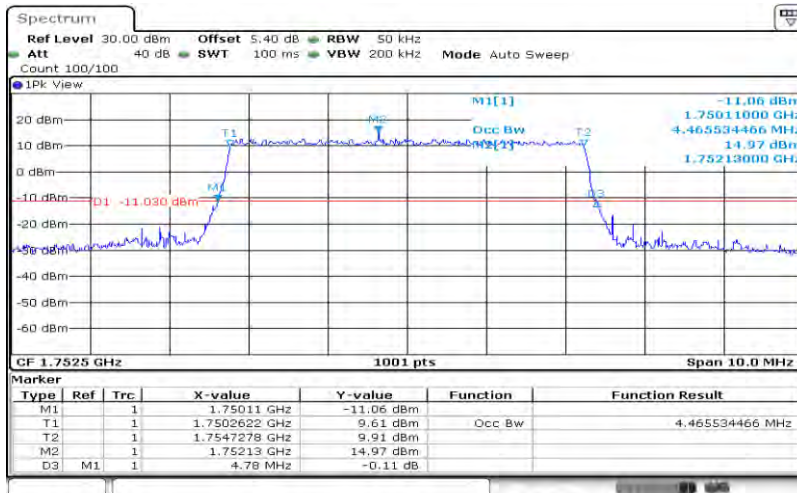
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Date: 10.NOV.2019 21:45:09

Band4-5MHz-16QAM-20375-25RB#0-4.466



Date: 10.NOV.2019 21:45:45

Band4-10MHz-QPSK-20000-50RB#0-8.951

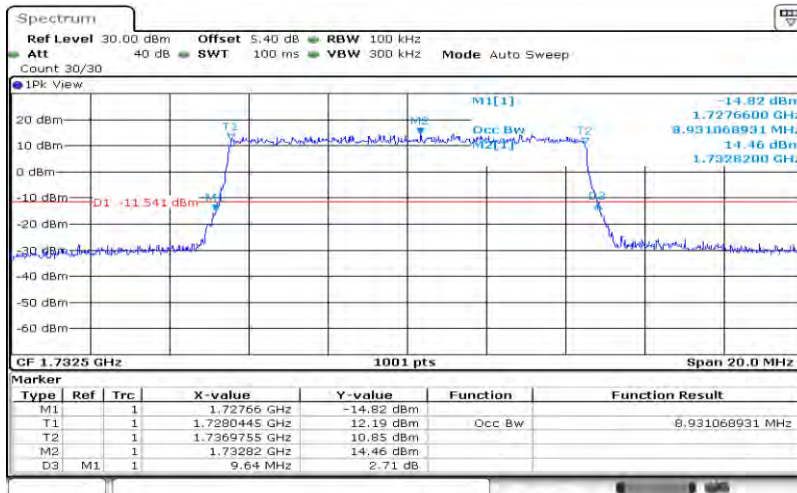


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Date: 10.NOV.2019 21:46:36

Band4-10MHz-QPSK-20175-50RB#0-8.931

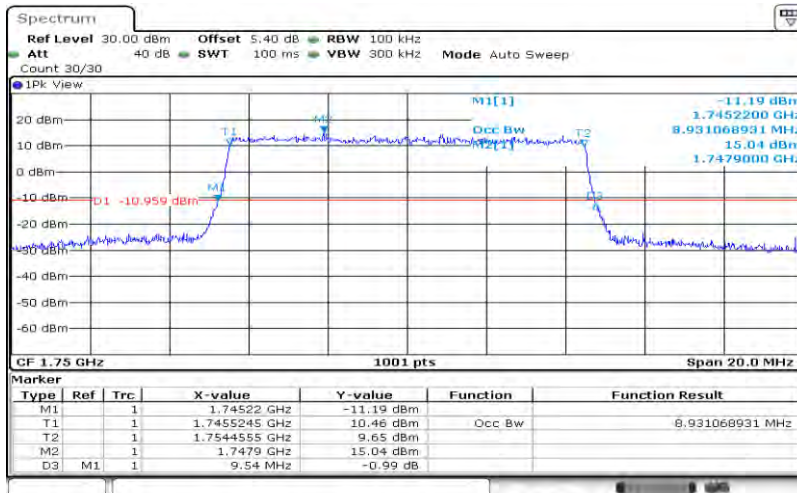


Date: 10.NOV.2019 21:46:58

Band4-10MHz-QPSK-20350-50RB#0-8.931

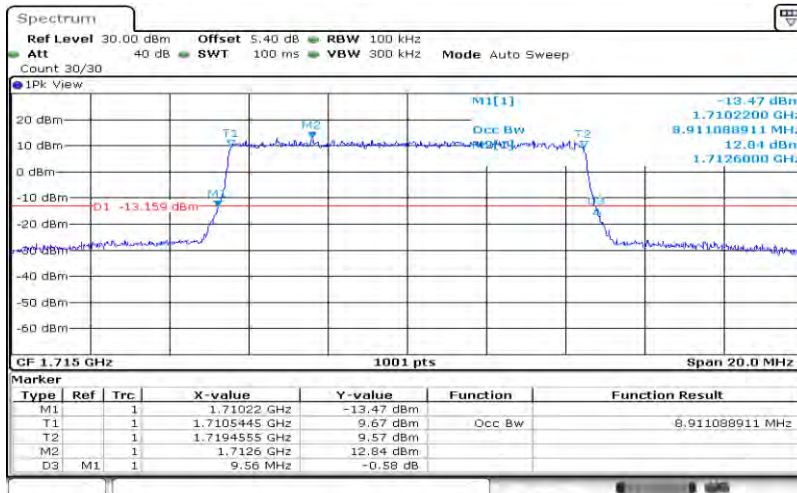


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Date: 10 NOV 2019 21:47:21

Band4-10MHz-64QAM-2000-50RB#0-8.911

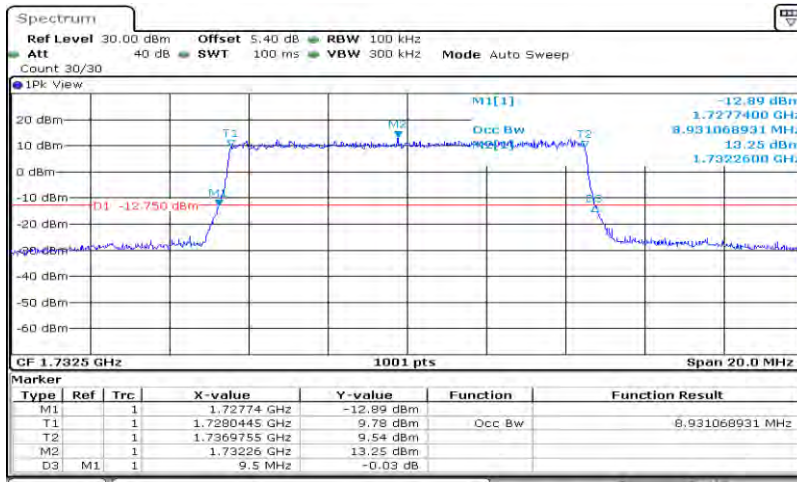


Date: 28 NOV 2019 18:53:53

Band4-10MHz-64QAM-20175-50RB#0-8.931

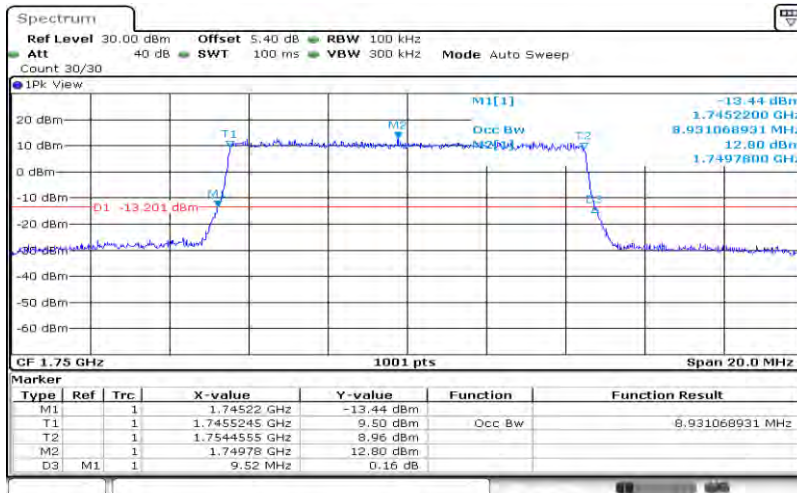


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Date: 28.NOV.2019 18:54:06

Band4-10MHz-64QAM-20350-50RB#0-8.931



Date: 28.NOV.2019 18:54:19

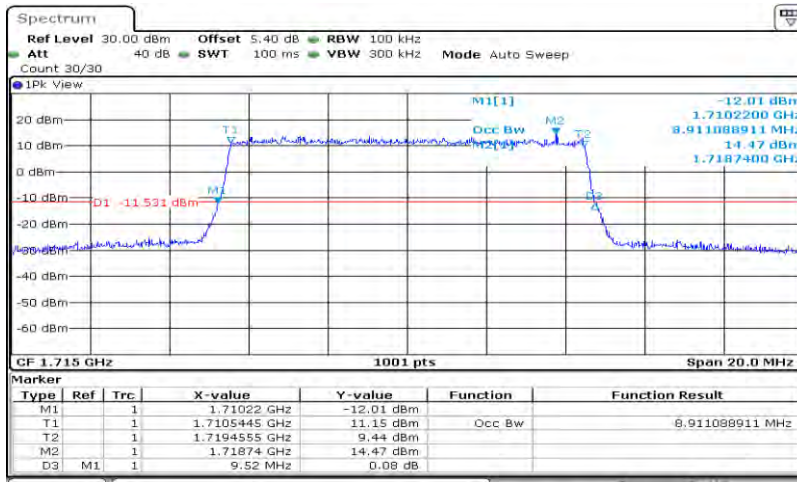
Band4-10MHz-16QAM-20000-50RB#0-8.911



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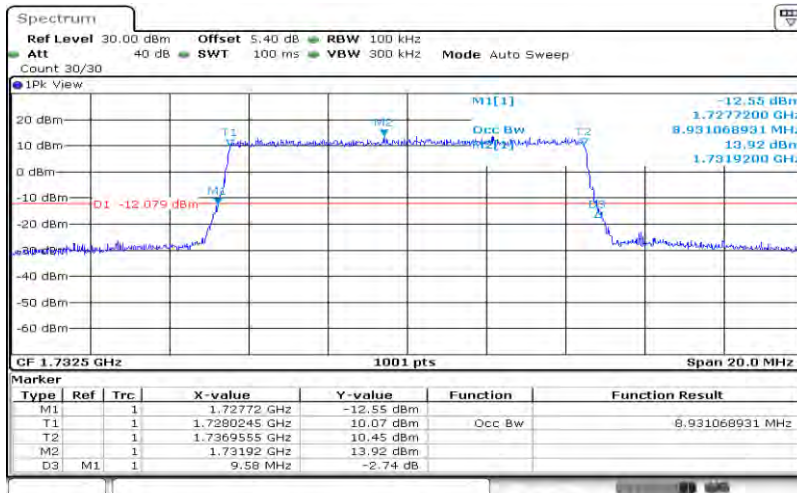
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Date: 10.NOV.2019 21:46:46

Band4-10MHz-16QAM-20175-50RB#0-8.931

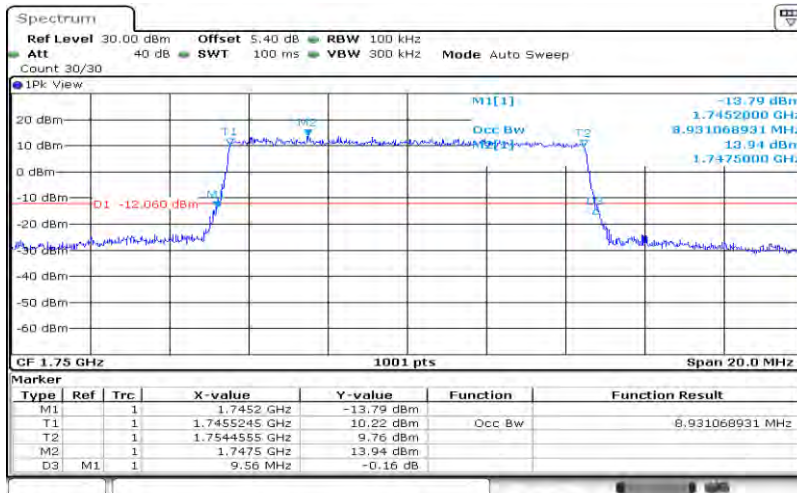


Date: 10.NOV.2019 21:47:08

Band4-10MHz-16QAM-20350-50RB#0-8.931

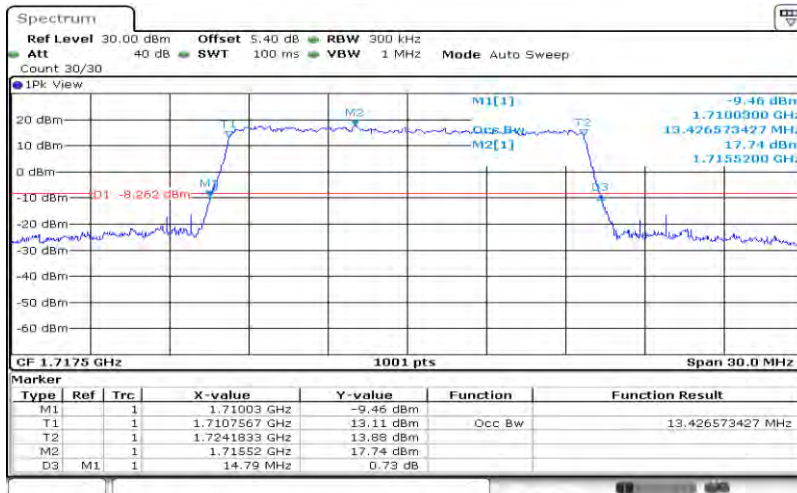


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Date: 10.NOV.2019 21:47:31

Band4-15MHz-QPSK-20025-75RB#0-13.427



Date: 10.NOV.2019 21:48:24

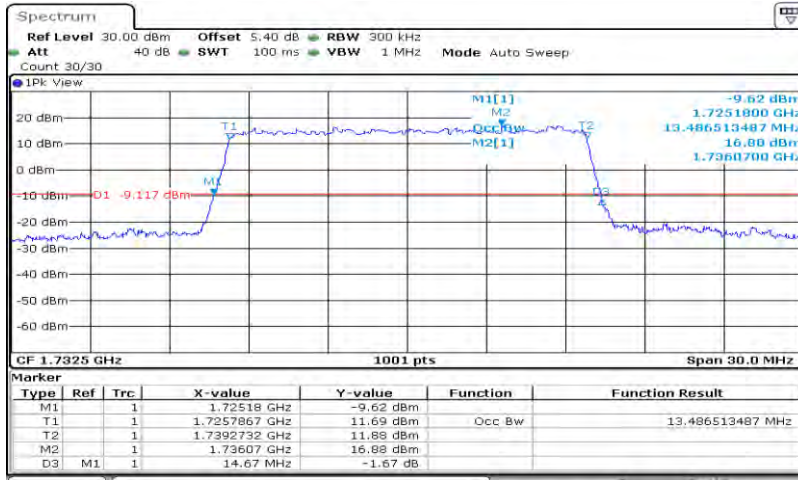
Band4-15MHz-QPSK-20175-75RB#0-13.487



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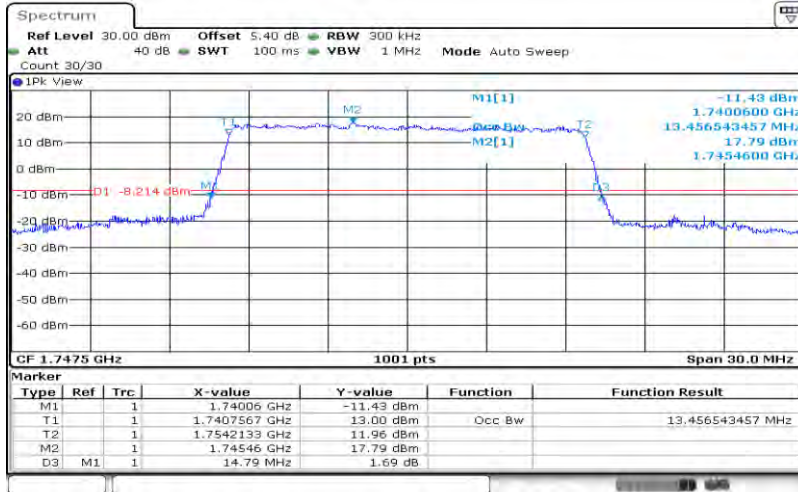
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Date: 10.NOV.2019 21:48:46

Band4-15MHz-QPSK-20325-75RB#0-13.457

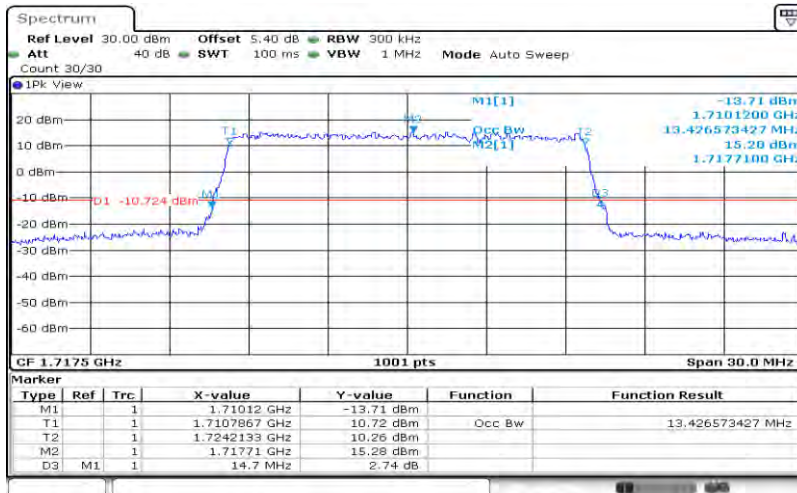


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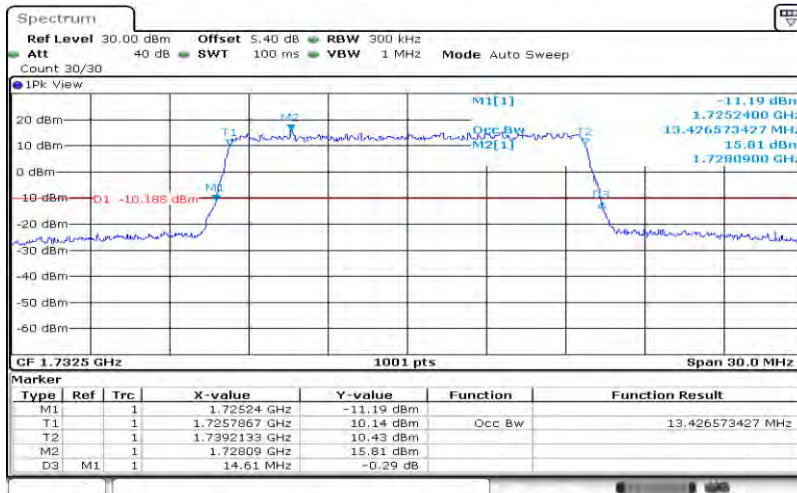
Band4-15MHz-64QAM-20025-75RB#0-13.427



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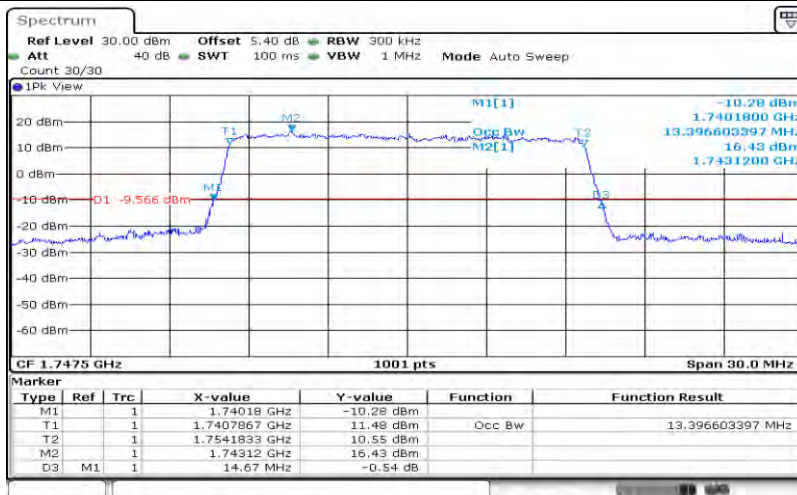
Band4-15MHz-64QAM-20175-75RB#0-13.427



Band4-15MHz-64QAM-20325-75RB#0-13.397

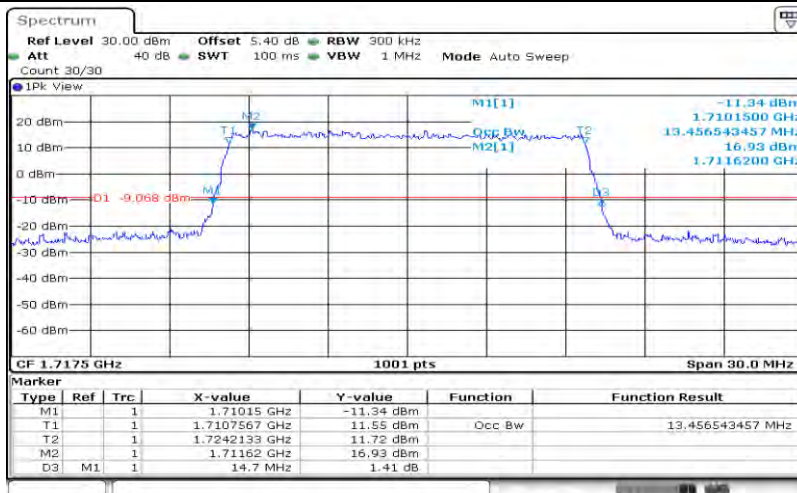


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Date: 28.NOV.2019 18:55:02

Band4-15MHz-16QAM-20025-75RB#0-13.457



Date: 10.NOV.2019 21:48:33

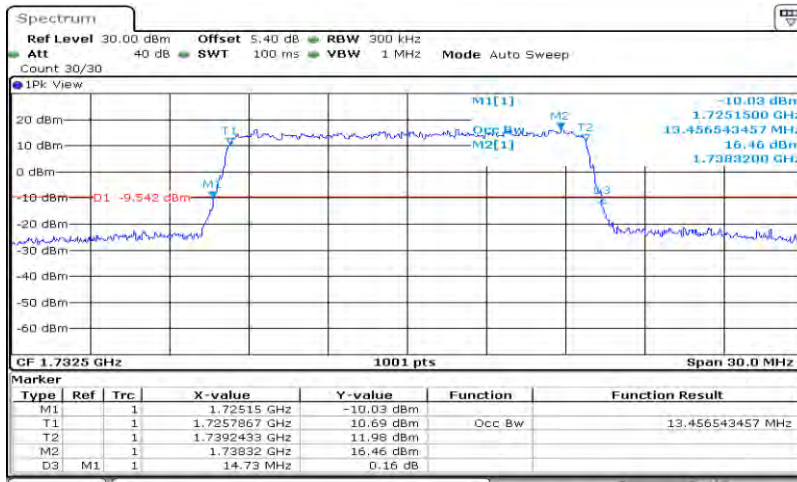
Band4-15MHz-16QAM-20175-75RB#0-13.457



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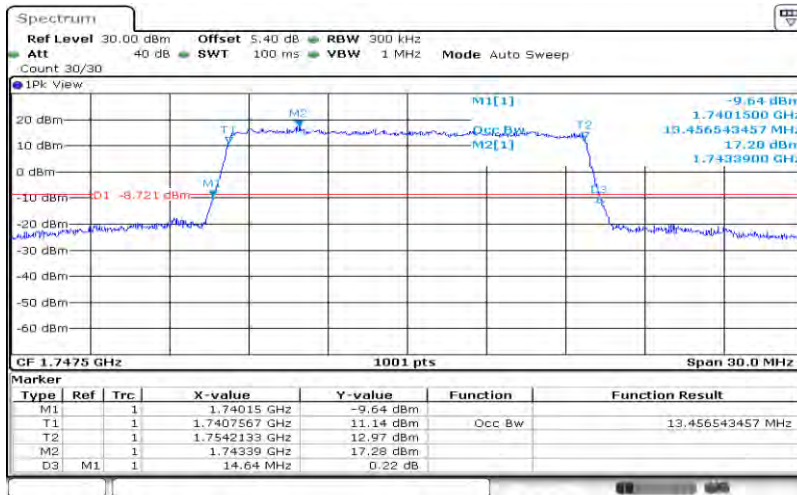
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Date: 10.NOV.2019 21:48:56

Band4-15MHz-16QAM-20325-75RB#0-13.457



Date: 10.NOV.2019 21:49:18

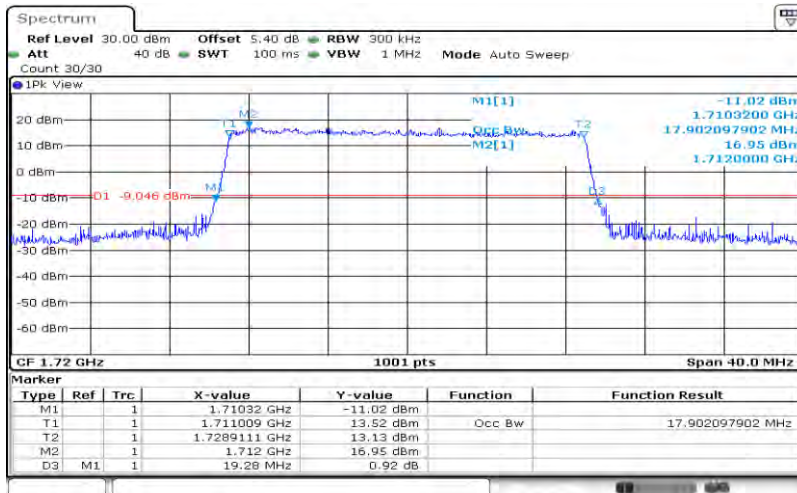
Band4-20MHz-QPSK-20050-100RB#0-17.902



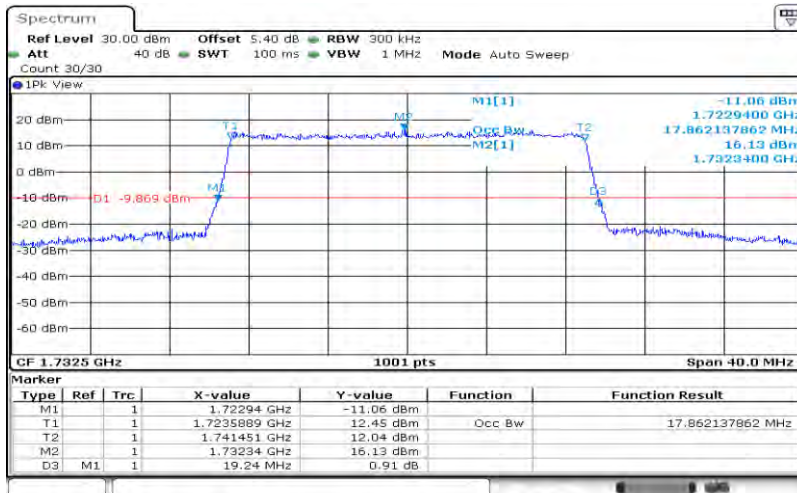
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Band4-20MHz-QPSK-20175-100RB#0-17.862



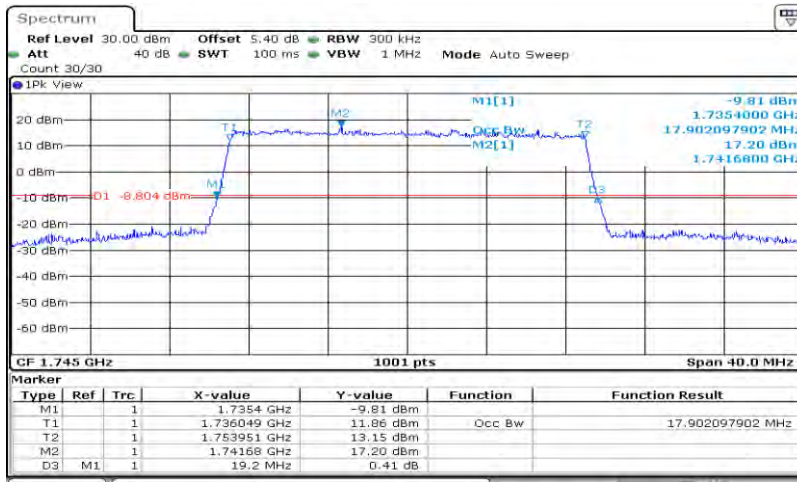
Band4-20MHz-QPSK-20300-100RB#0-17.902



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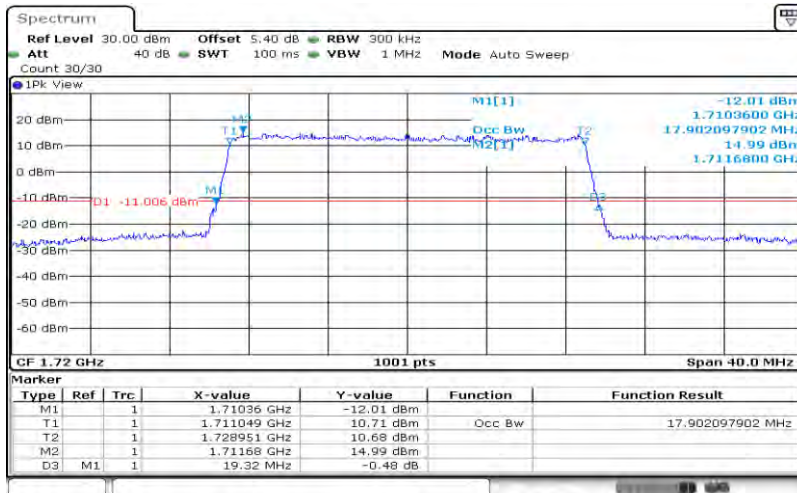
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Date: 10.NOV.2019 21:50:50

Band4-20MHz-64QAM-20050-100RB#0-17.902



Date: 28.NOV.2019 18:55:20

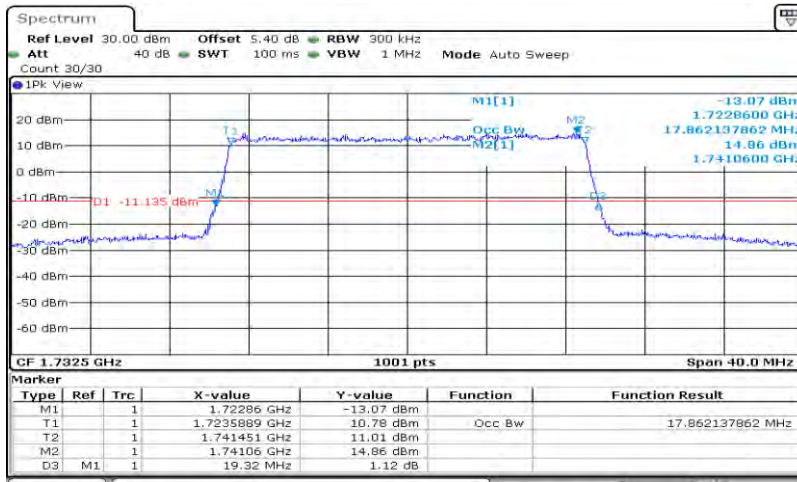
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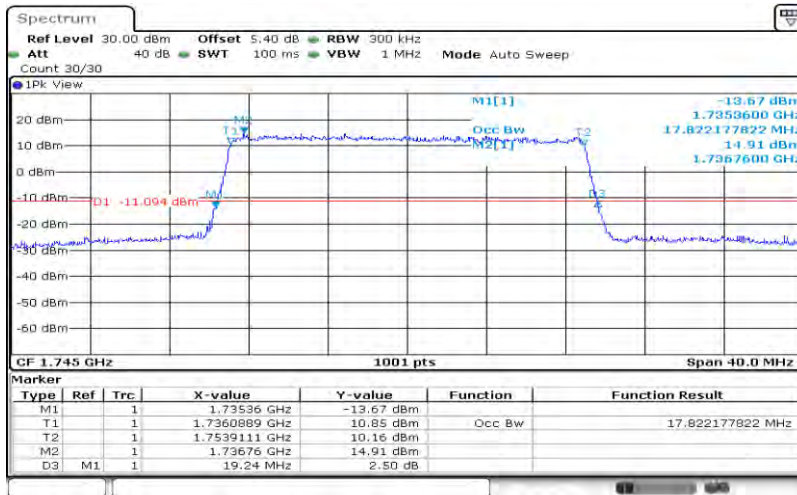
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Date: 28.NOV.2019 18:55:33

Band4-20MHz-64QAM-20300-100RB#0-17.822

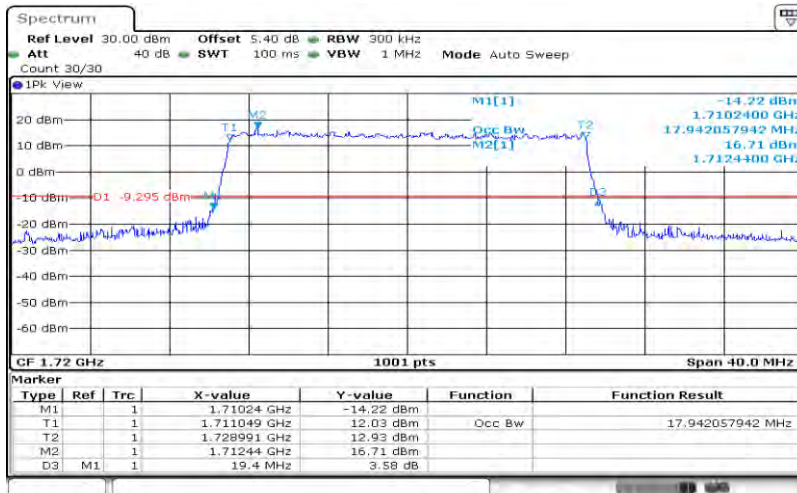


Date: 28.NOV.2019 18:55:46

Band4-20MHz-16QAM-20050-100RB#0-17.942

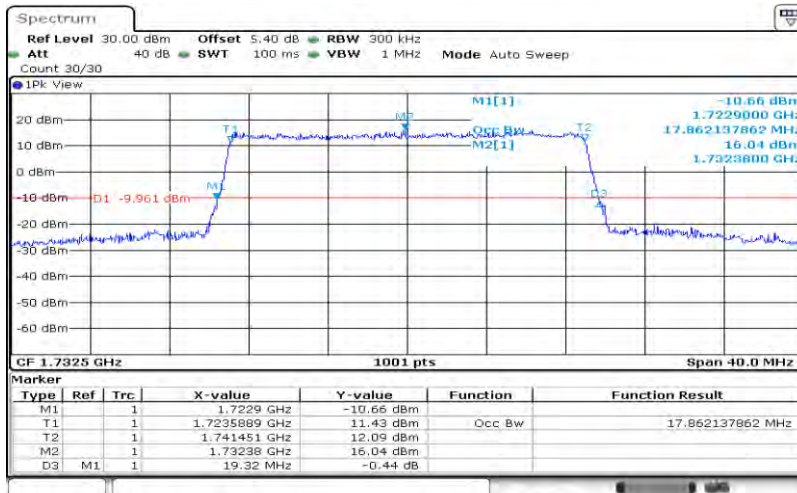


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Date: 10.NOV.2019 21:50:15

Band4-20MHz-16QAM-20175-100RB#0-17.862



Date: 10.NOV.2019 21:50:38

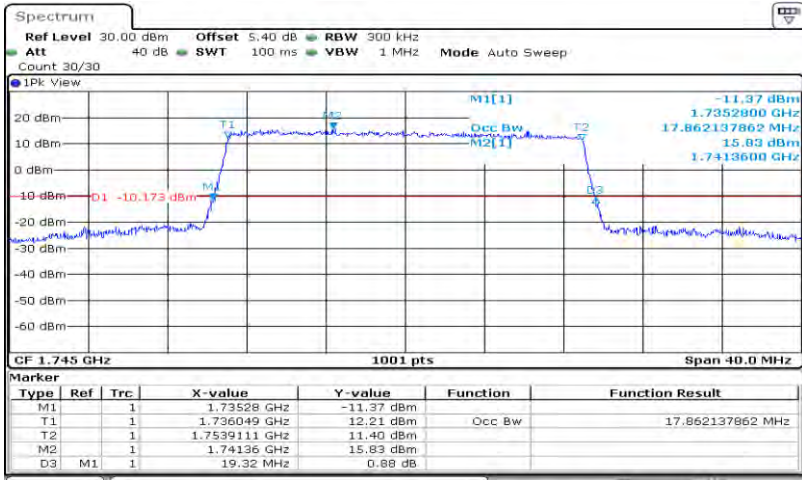
Band4-20MHz-16QAM-20300-100RB#0-17.862



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Date: 10.NOV.2019 21:51:00

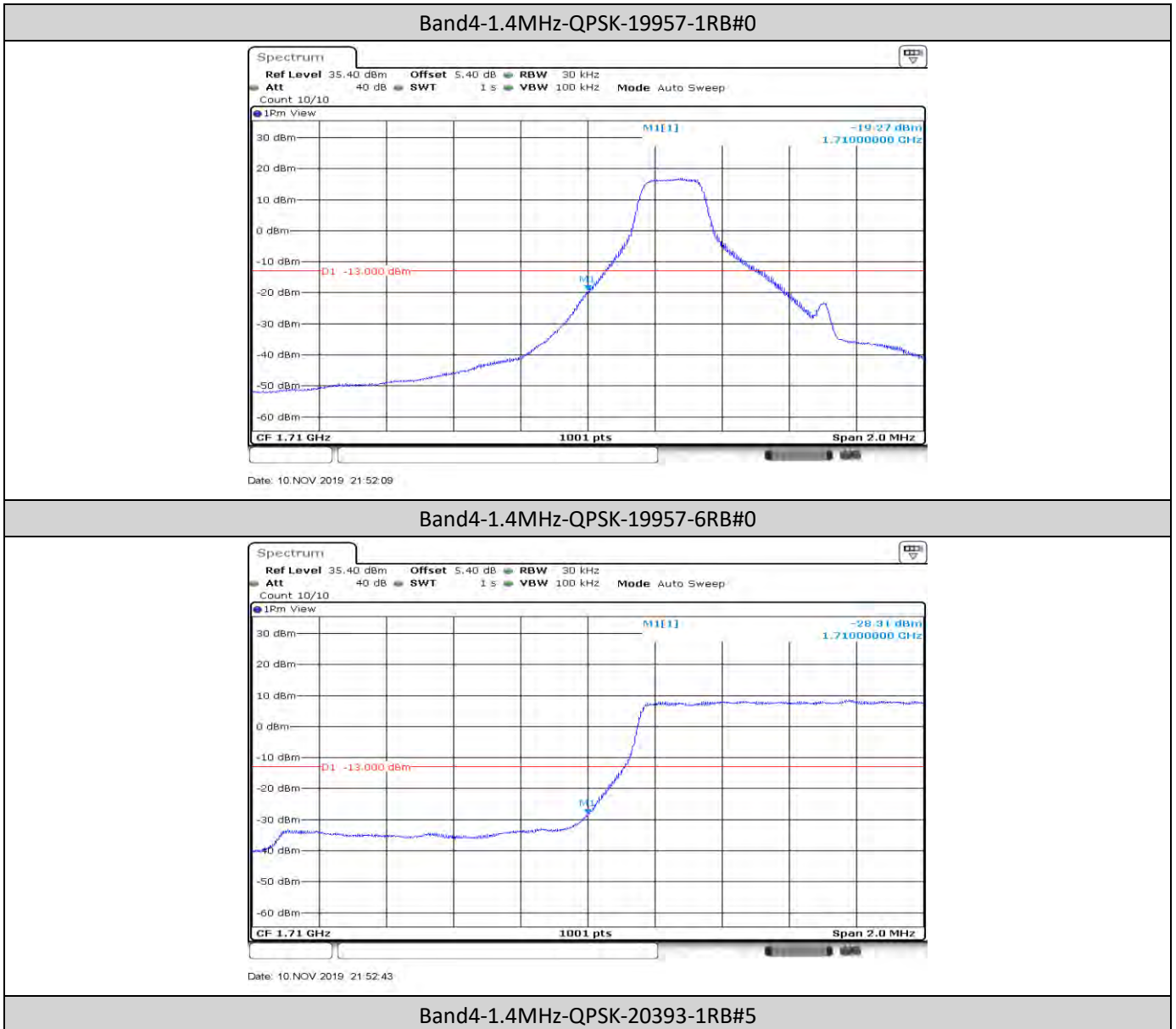


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5. Band Edge Compliance

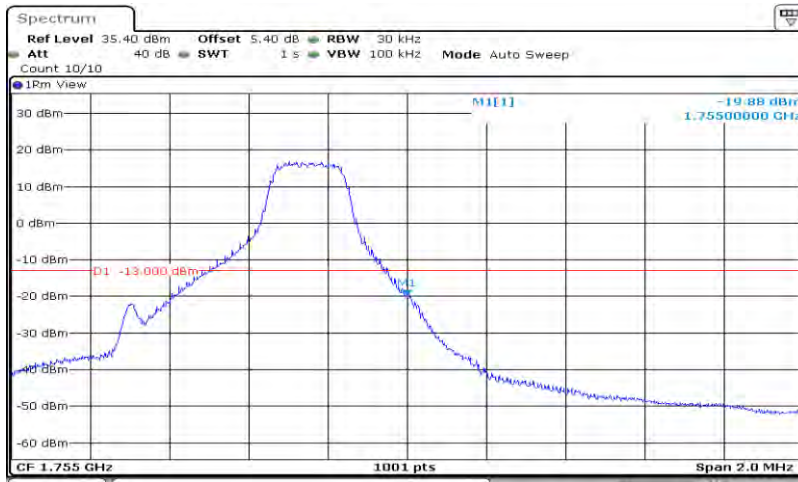
5.1. Test Plots



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Date: 10.NOV.2019 21:53:53

Band4-1.4MHz-QPSK-20393-6RB#0



Date: 10.NOV.2019 21:54:28

Band4-1.4MHz-64QAM-19957-1RB#0

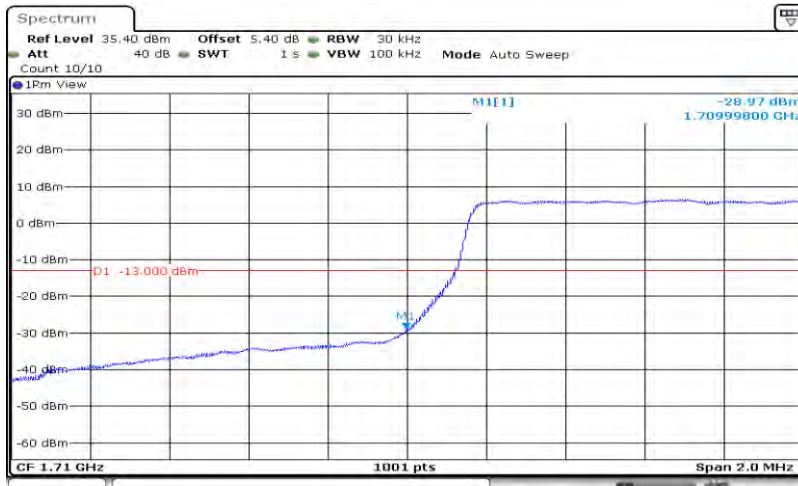


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Date: 28.NOV.2019 18:56:11

Band4-1.4MHz-64QAM-19957-6RB#0



Date: 28.NOV.2019 18:56:30

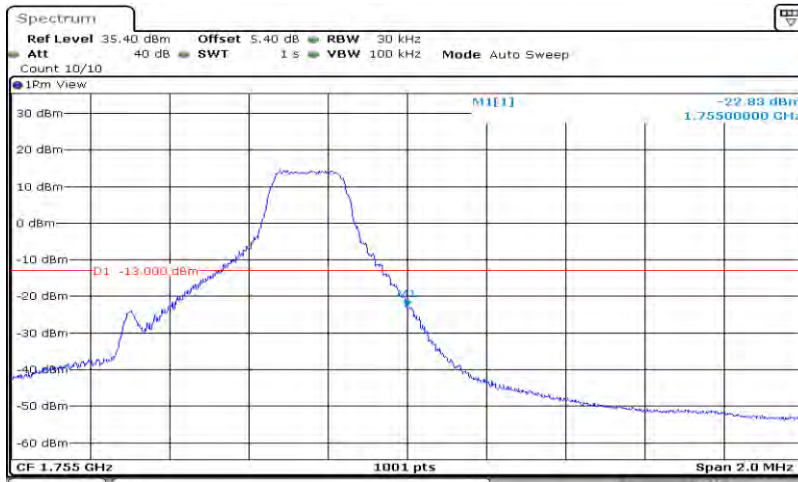
Band4-1.4MHz-64QAM-20393-1RB#5



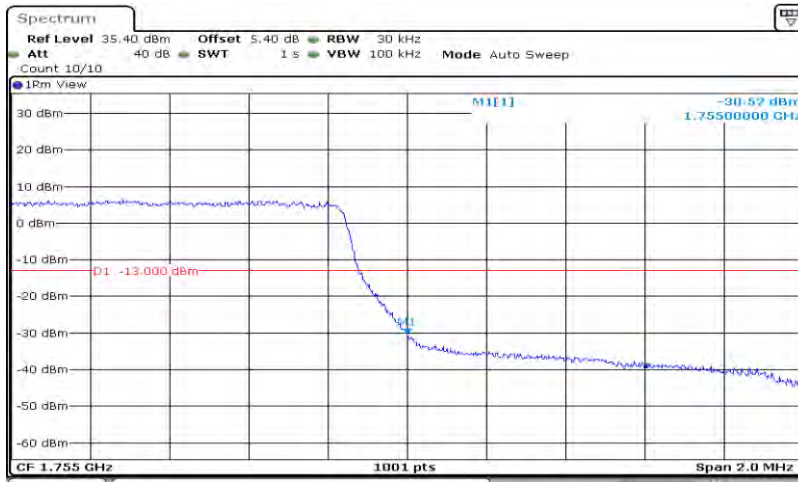
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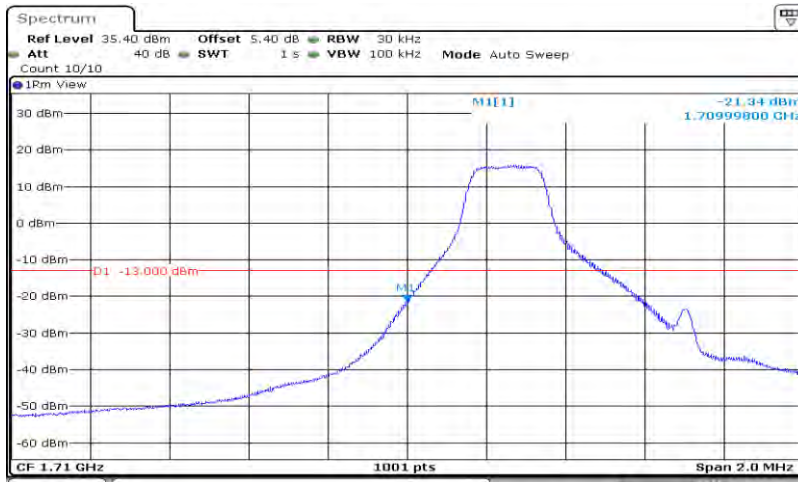
Band4-1.4MHz-64QAM-20393-6RB#0



Band4-1.4MHz-16QAM-19957-1RB#0



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Date: 10.NOV.2019 21:52:26

Band4-1.4MHz-16QAM-19957-6RB#0



Date: 10.NOV.2019 21:53:00

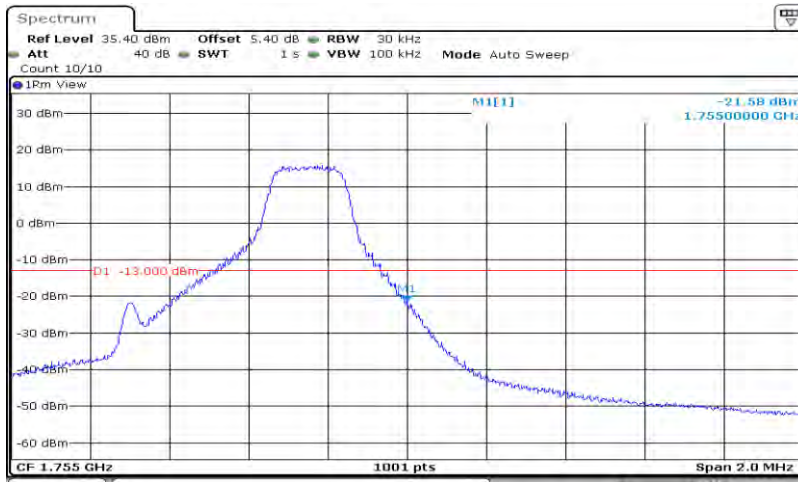
Band4-1.4MHz-16QAM-20393-1RB#5



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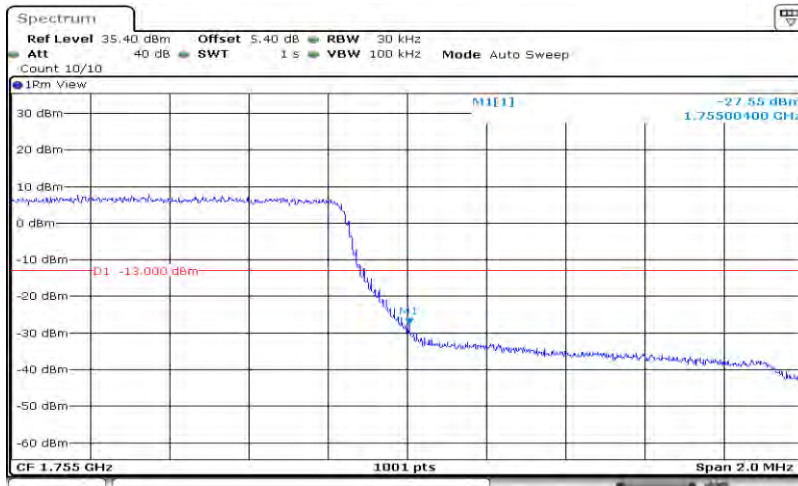
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Date: 10.NOV.2019 21:54:11

Band4-1.4MHz-16QAM-20393-6RB#0



Date: 10.NOV.2019 21:54:45

Band4-3MHz-QPSK-19965-1RB#0



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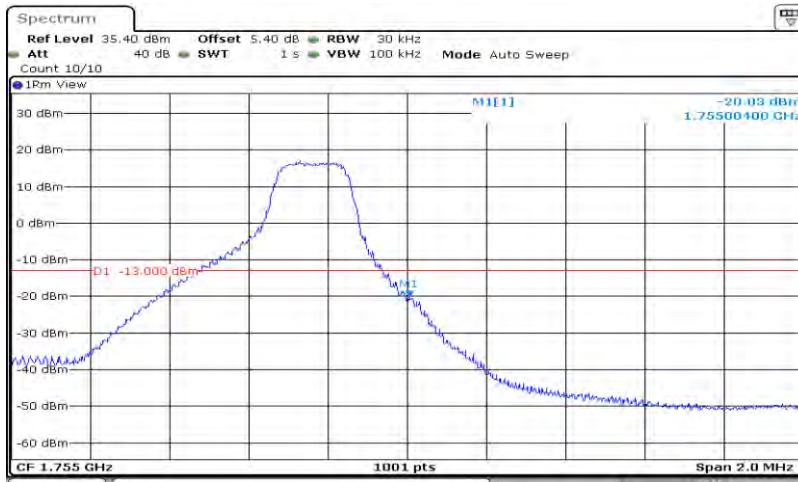
Band4-3MHz-QPSK-19965-15RB#0



Band4-3MHz-QPSK-20385-1RB#14



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Date: 10.NOV.2019 21:57:05

Band4-3MHz-QPSK-20385-15RB#0

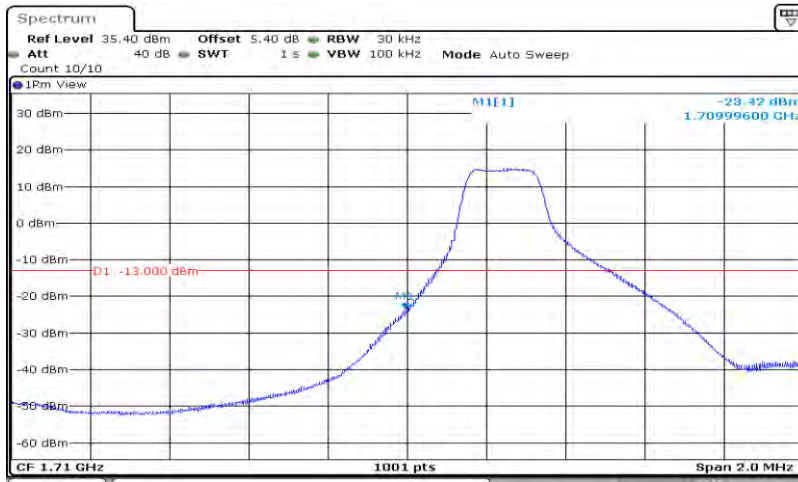


Date: 10.NOV.2019 21:57:39

Band4-3MHz-64QAM-19965-1RB#0



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Date: 28.NOV.2019 18:57:38

Band4-3MHz-64QAM-19965-15RB#0

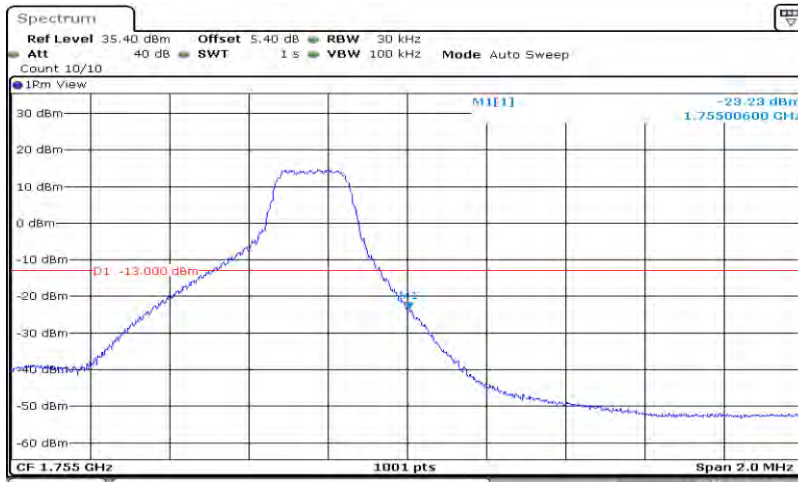


Date: 28.NOV.2019 18:57:58

Band4-3MHz-64QAM-20385-1RB#14



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Date: 28.NOV.2019 18:58:22

Band4-3MHz-64QAM-20385-15RB#0

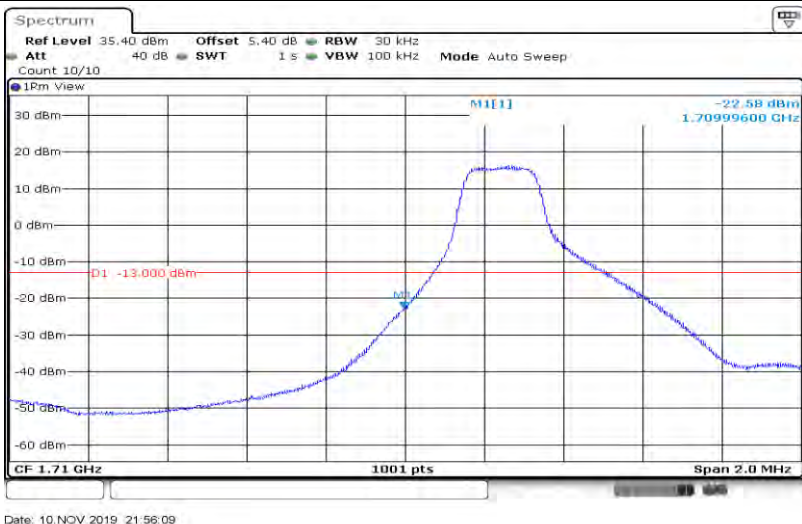


Date: 28.NOV.2019 18:58:41

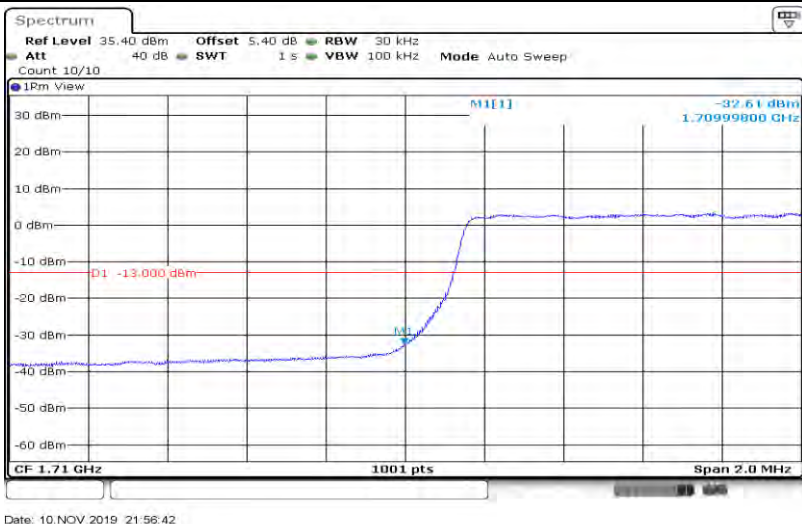
Band4-3MHz-16QAM-19965-1RB#0



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Band4-3MHz-16QAM-19965-15RB#0



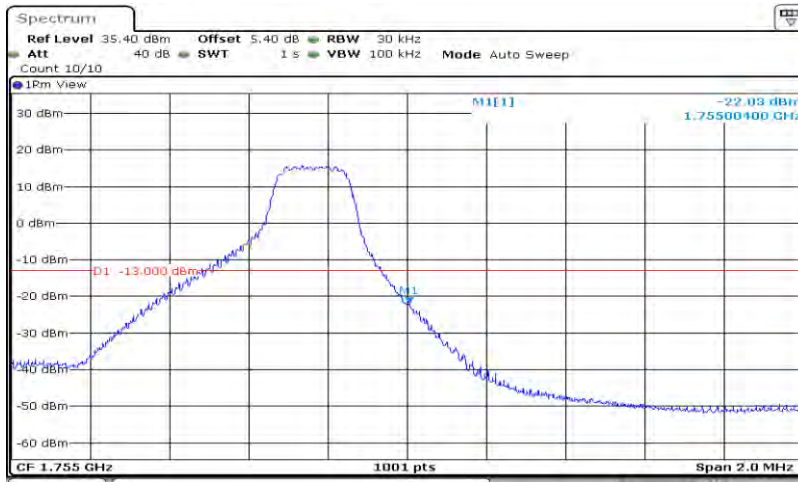
Band4-3MHz-16QAM-20385-1RB#14



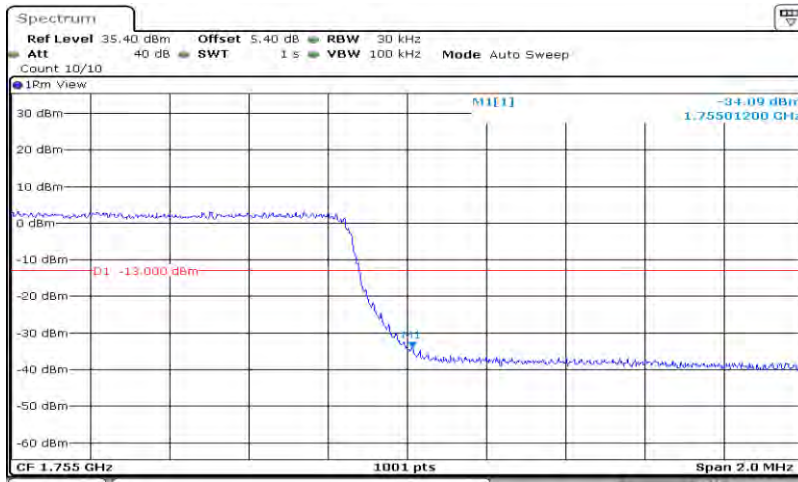
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Band4-3MHz-16QAM-20385-15RB#0



Band4-5MHz-QPSK-19975-1RB#0



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Date: 10.NOV.2019 21:59:09

Band4-5MHz-QPSK-19975-25RB#0



Date: 10.NOV.2019 21:59:43

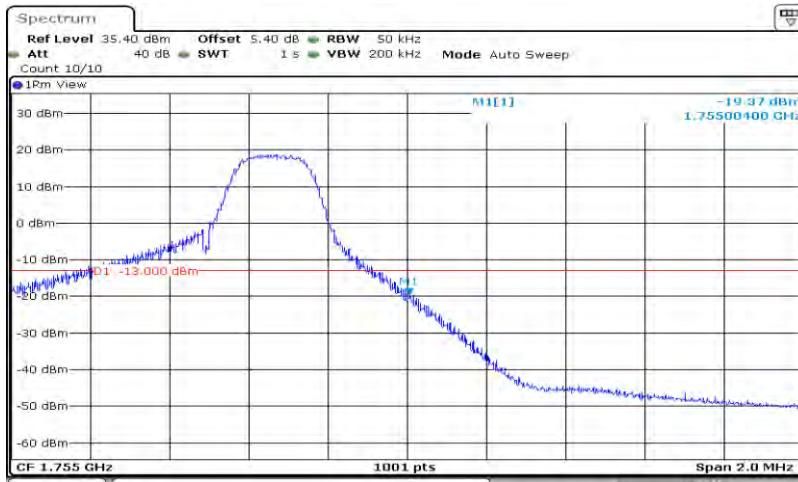
Band4-5MHz-QPSK-20375-1RB#24



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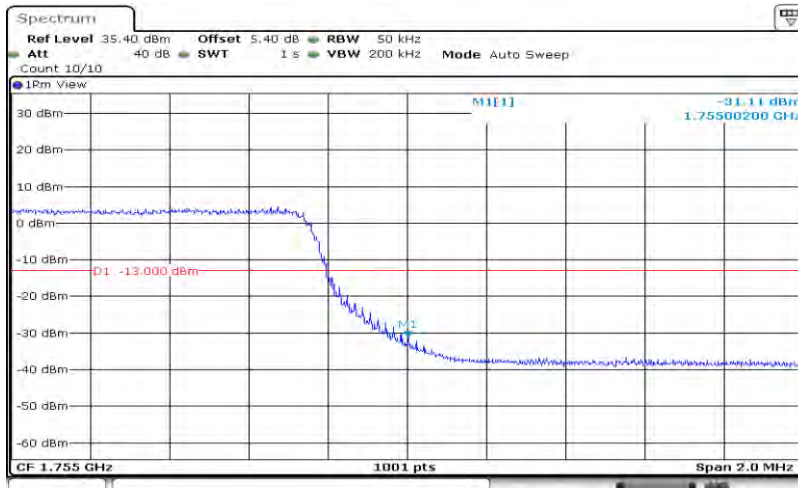
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Date: 10.NOV.2019 22:00:23

Band4-5MHz-QPSK-20375-25RB#0



Date: 10.NOV.2019 22:00:57

Band4-5MHz-64QAM-19975-1RB#0



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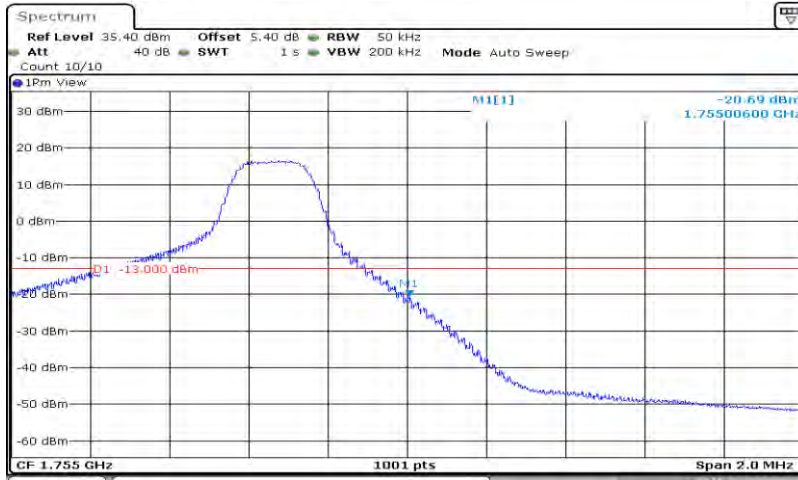
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Band4-5MHz-64QAM-20375-1RB#24

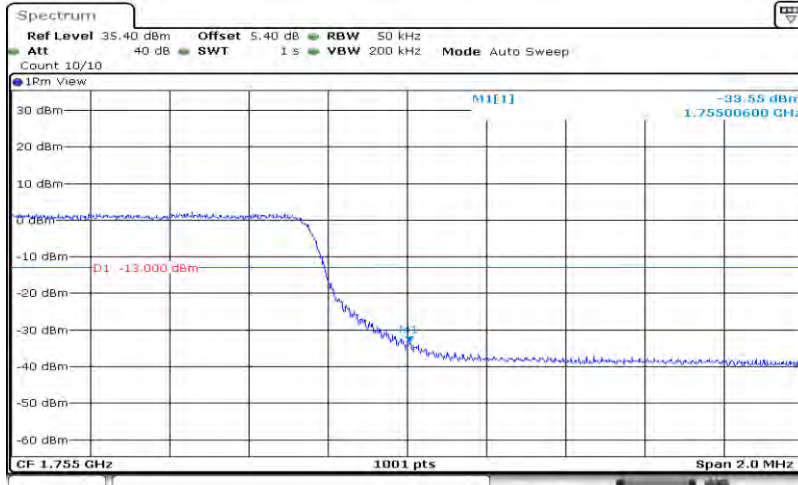


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Date: 28.NOV.2019 18:58:49

Band4-5MHz-64QAM-20375-25RB#0



Date: 28.NOV.2019 19:00:09

Band4-5MHz-16QAM-19975-1RB#0



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Band4-5MHz-16QAM-19975-25RB#0



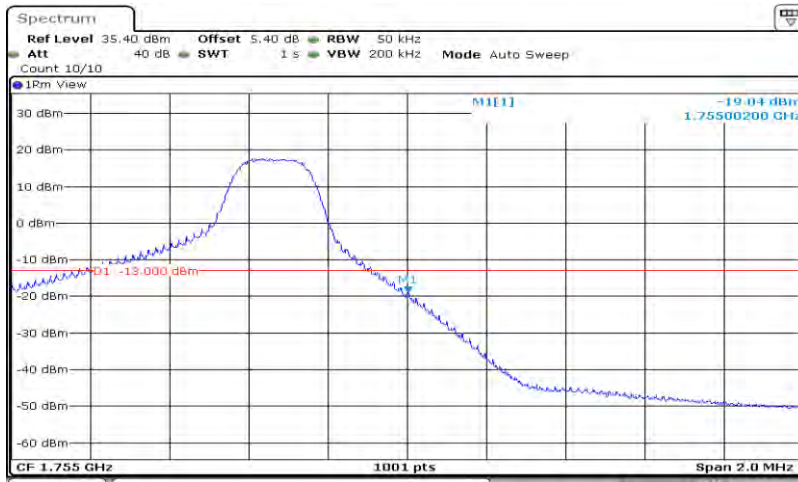
Band4-5MHz-16QAM-20375-1RB#24



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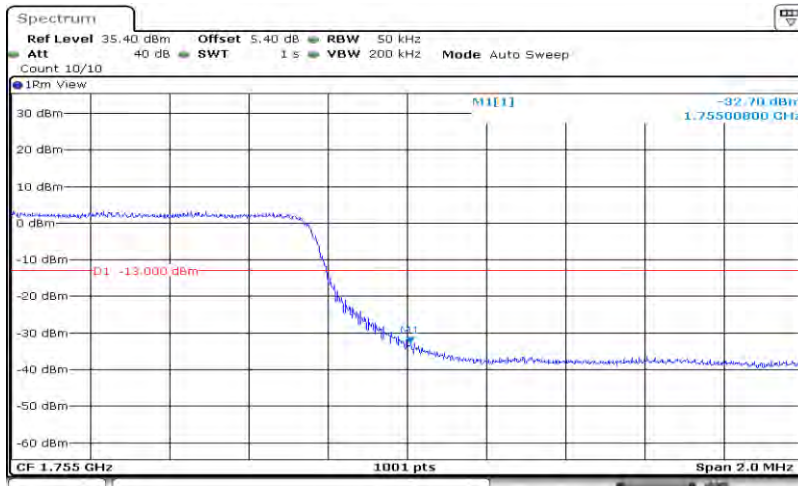
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Date: 10.NOV.2019 22:00:40

Band4-5MHz-16QAM-20375-25RB#0



Date: 10.NOV.2019 22:01:14

Band4-10MHz-QPSK-20000-1RB#0



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Date: 10.NOV.2019 22:02:06

Band4-10MHz-QPSK-20000-50RB#0



Date: 10.NOV.2019 22:02:41

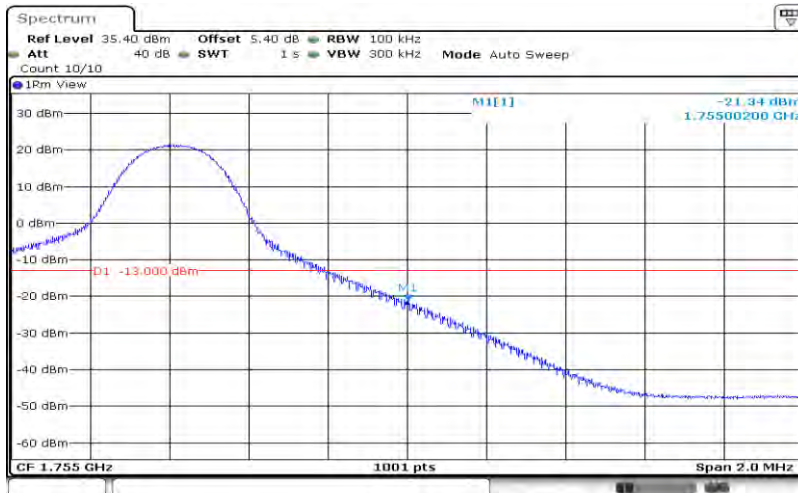
Band4-10MHz-QPSK-20350-1RB#49



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Date: 10.NOV.2019 22:03:21

Band4-10MHz-QPSK-20350-50RB#0

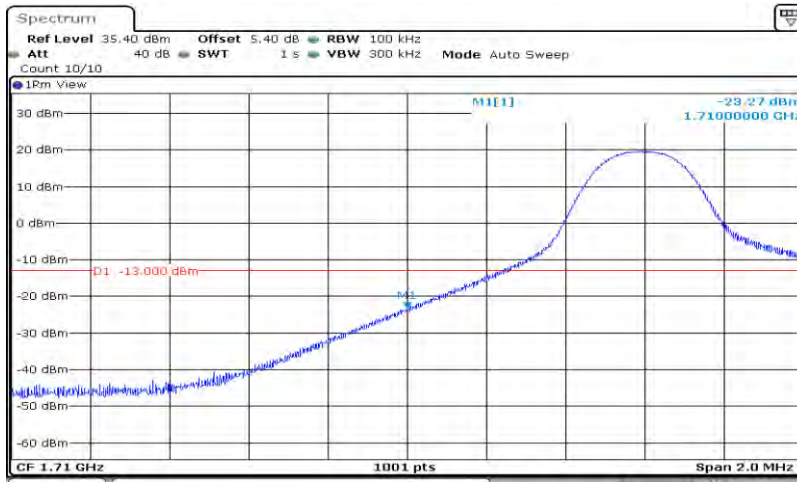


Date: 10.NOV.2019 22:03:56

Band4-10MHz-64QAM-20000-1RB#0

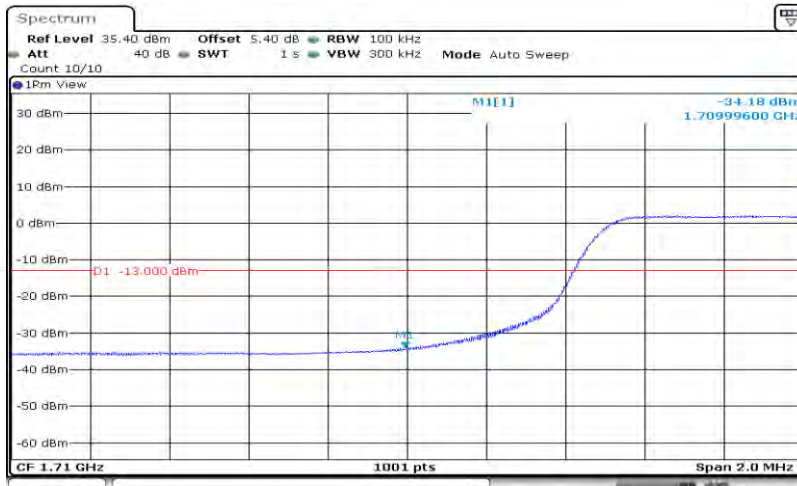


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Date: 28.NOV.2019 19:00:33

Band4-10MHz-64QAM-20000-50RB#0

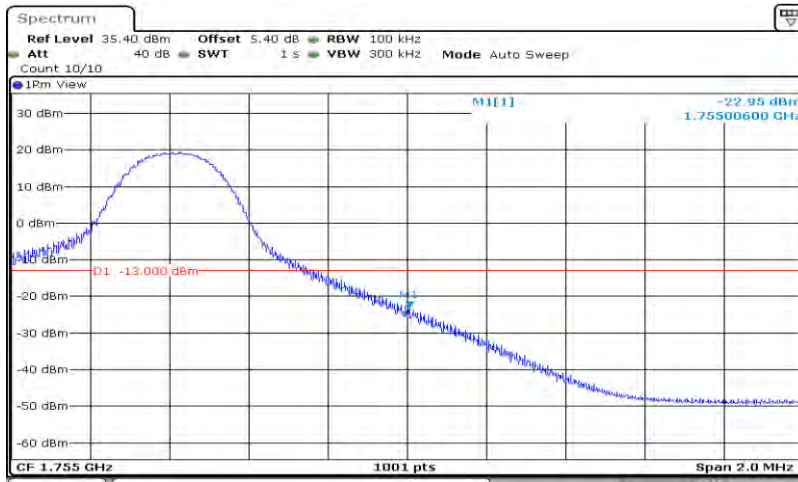


Date: 28.NOV.2019 19:00:53

Band4-10MHz-64QAM-20350-1RB#49



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Date: 28.NOV.2019 19:01:17

Band4-10MHz-64QAM-20350-50RB#0



Date: 28.NOV.2019 19:01:38

Band4-10MHz-16QAM-20000-1RB#0

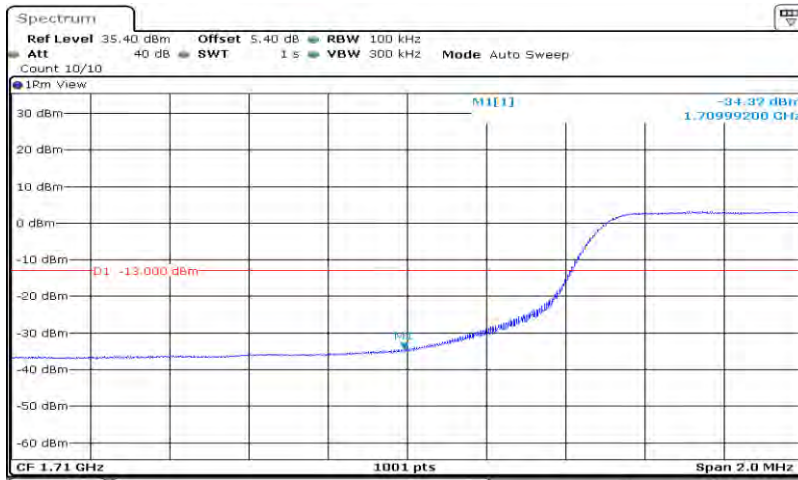


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Date: 10.NOV.2019 22:02:23

Band4-10MHz-16QAM-20000-50RB#0



Date: 10.NOV.2019 22:02:58

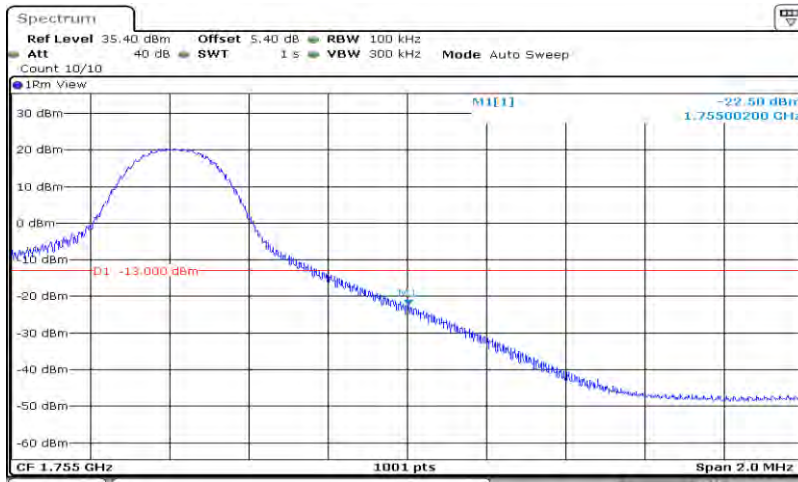
Band4-10MHz-16QAM-20350-1RB#49



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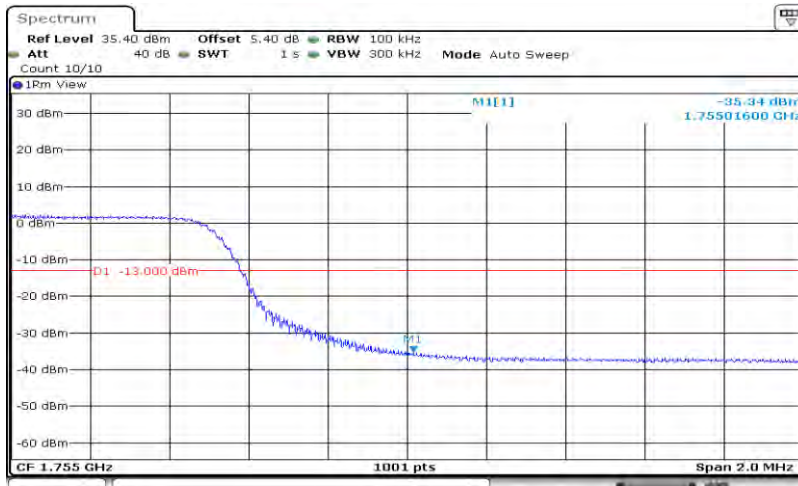
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Date: 10.NOV.2019 22:03:39

Band4-10MHz-16QAM-20350-50RB#0



Date: 10.NOV.2019 22:04:13

Band4-15MHz-QPSK-20025-1RB#0



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Date: 10.NOV.2019 22:05:27

Band4-15MHz-QPSK-20025-75RB#0

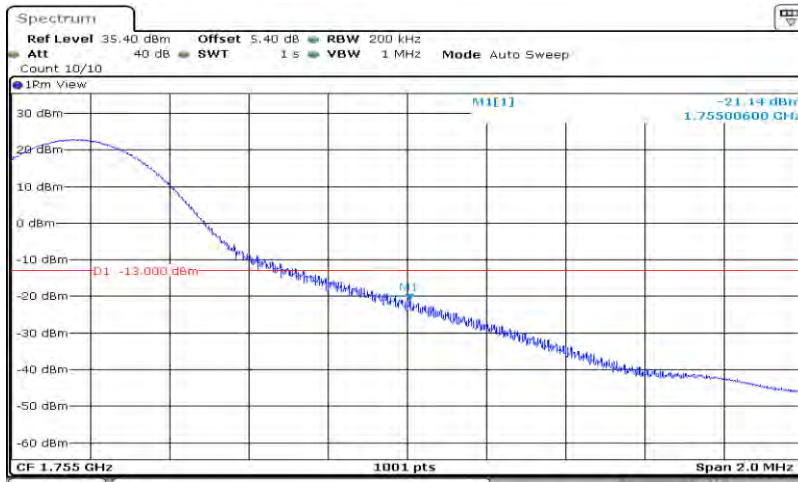


Date: 10.NOV.2019 22:08:02

Band4-15MHz-QPSK-20325-1RB#74



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Date: 10.NOV.2019 22:06:43

Band4-15MHz-QPSK-20325-75RB#0



Date: 10.NOV.2019 22:07:19

Band4-15MHz-64QAM-20025-1RB#0

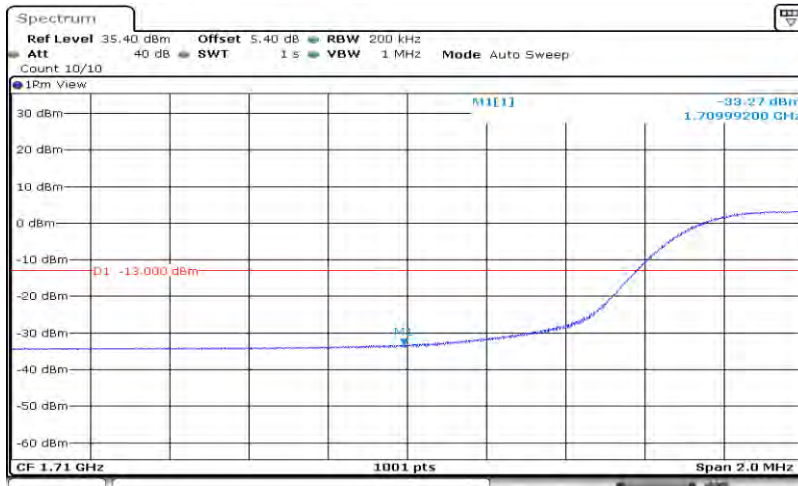


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Date: 28.NOV.2019 19:02:01

Band4-15MHz-64QAM-20025-75RB#0

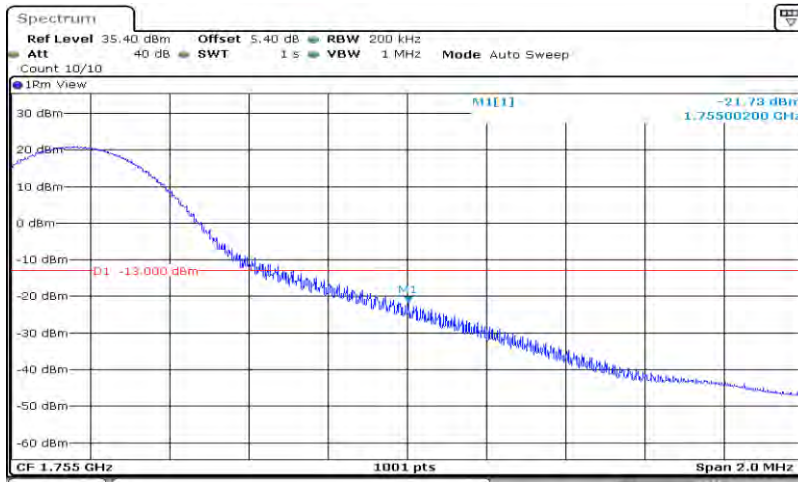


Date: 28.NOV.2019 19:02:20

Band4-15MHz-64QAM-20325-1RB#74

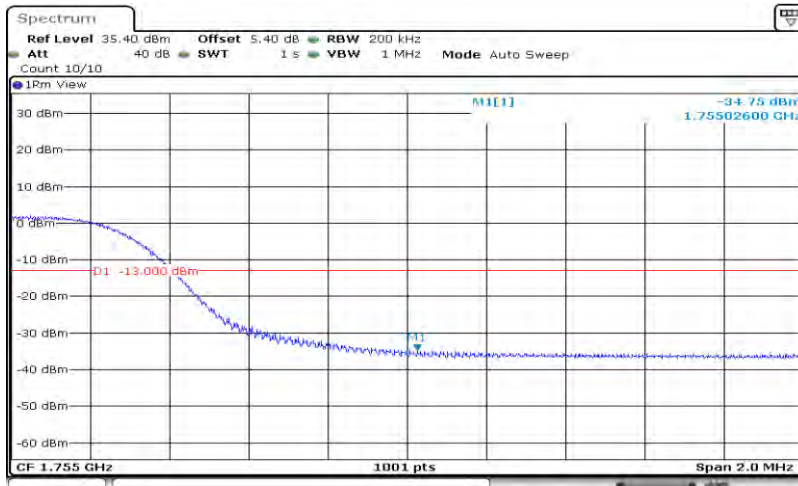


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Date: 28.NOV.2019 19:02:44

Band4-15MHz-64QAM-20325-75RB#0



Date: 28.NOV.2019 19:03:04

Band4-15MHz-16QAM-20025-1RB#0



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Date: 10.NOV.2019 22:05:45

Band4-15MHz-16QAM-20025-75RB#0

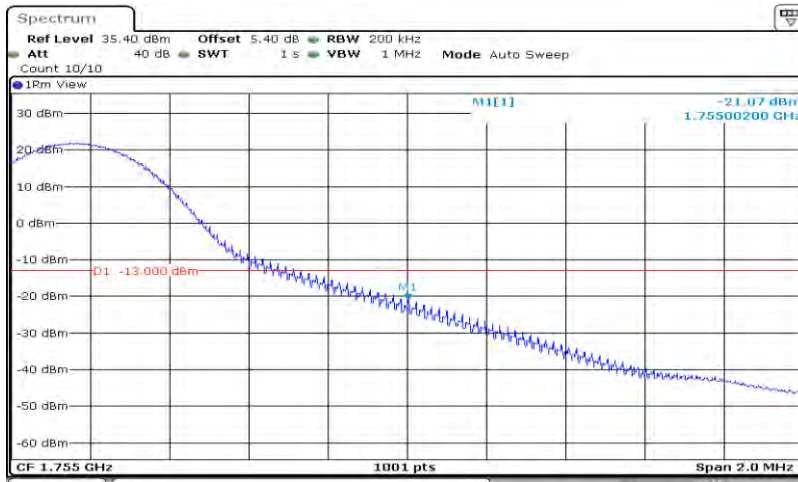


Date: 10.NOV.2019 22:06:20

Band4-15MHz-16QAM-20325-1RB#74

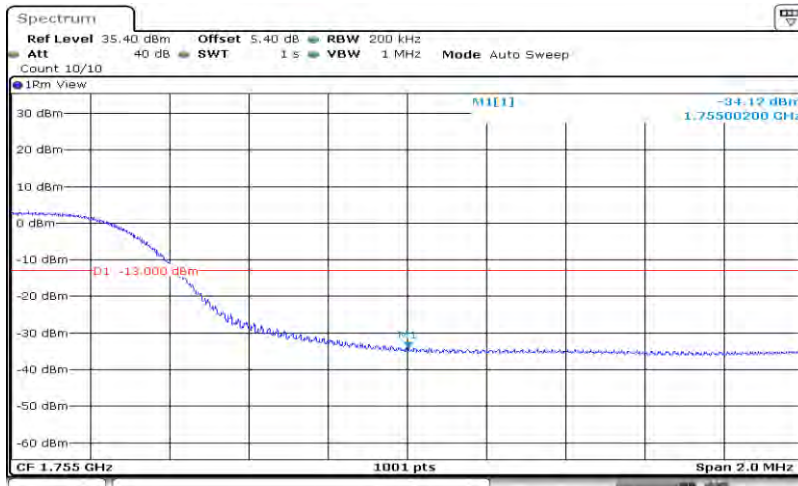


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Date: 10.NOV.2019 22:07:01

Band4-15MHz-16QAM-20325-75RB#0



Date: 10.NOV.2019 22:07:37

Band4-20MHz-QPSK-20050-1RB#0



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Date: 10.NOV.2019 22:08:36

Band4-20MHz-QPSK-20050-100RB#0

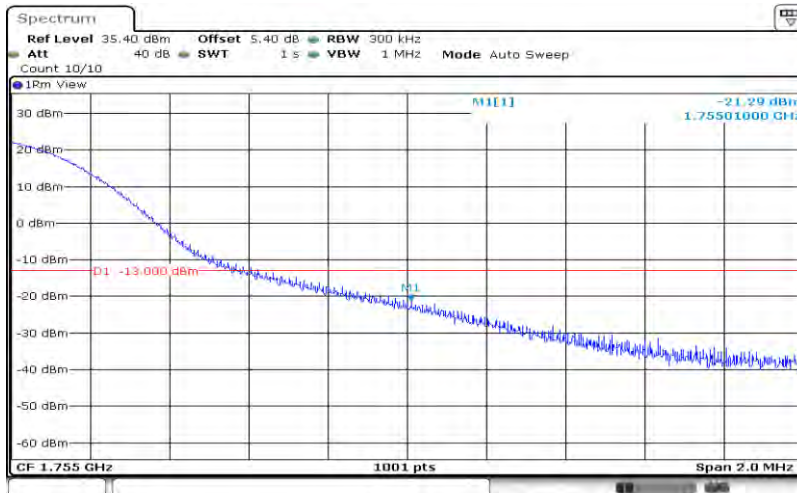


Date: 10.NOV.2019 22:09:12

Band4-20MHz-QPSK-20300-1RB#99



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Date: 10.NOV.2019 22:09:54

Band4-20MHz-QPSK-20300-100RB#0



Date: 10.NOV.2019 22:10:30

Band4-20MHz-64QAM-20050-1RB#0



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Date: 28.NOV.2019 19:03:29

Band4-20MHz-64QAM-20050-100RB#0



Date: 28.NOV.2019 19:03:49

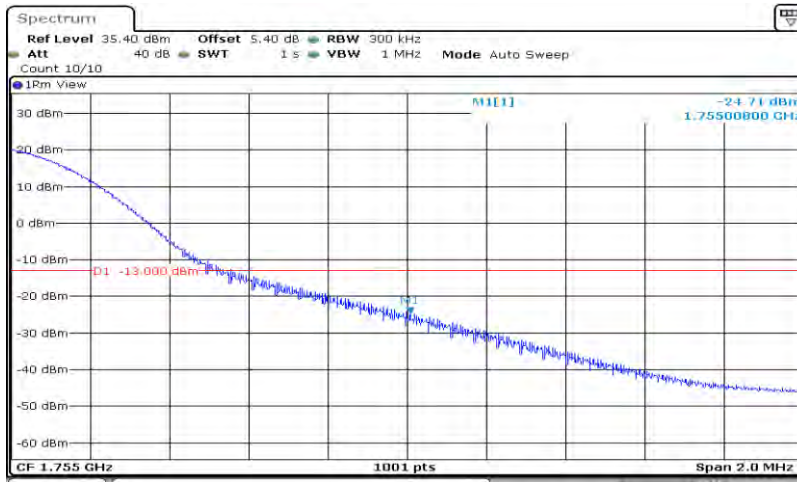
Band4-20MHz-64QAM-20300-1RB#99



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Date: 28.NOV.2019 19:04:14

Band4-20MHz-64QAM-20300-100RB#0



Date: 28.NOV.2019 19:04:33

Band4-20MHz-16QAM-20050-1RB#0



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Date: 10.NOV.2019 22:08:54

Band4-20MHz-16QAM-20050-100RB#0



Date: 10.NOV.2019 22:09:30

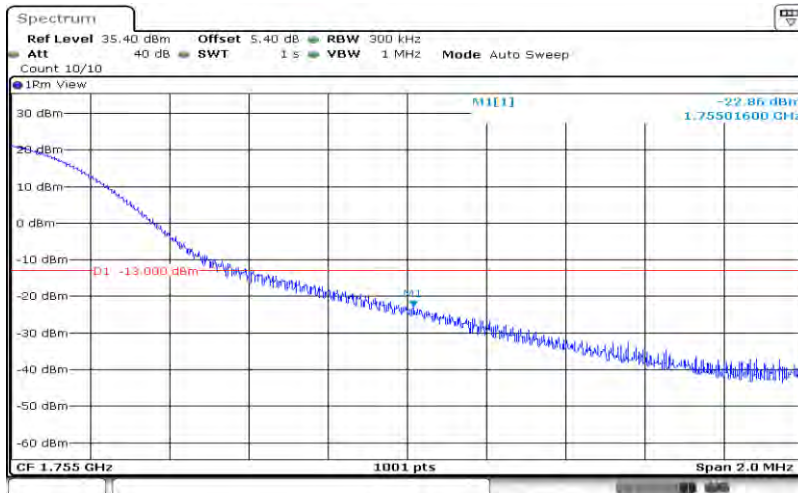
Band4-20MHz-16QAM-20300-1RB#99



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Date: 10.NOV.2019 22:10:12

Band4-20MHz-16QAM-20300-100RB#0



Date: 10.NOV.2019 22:10:49



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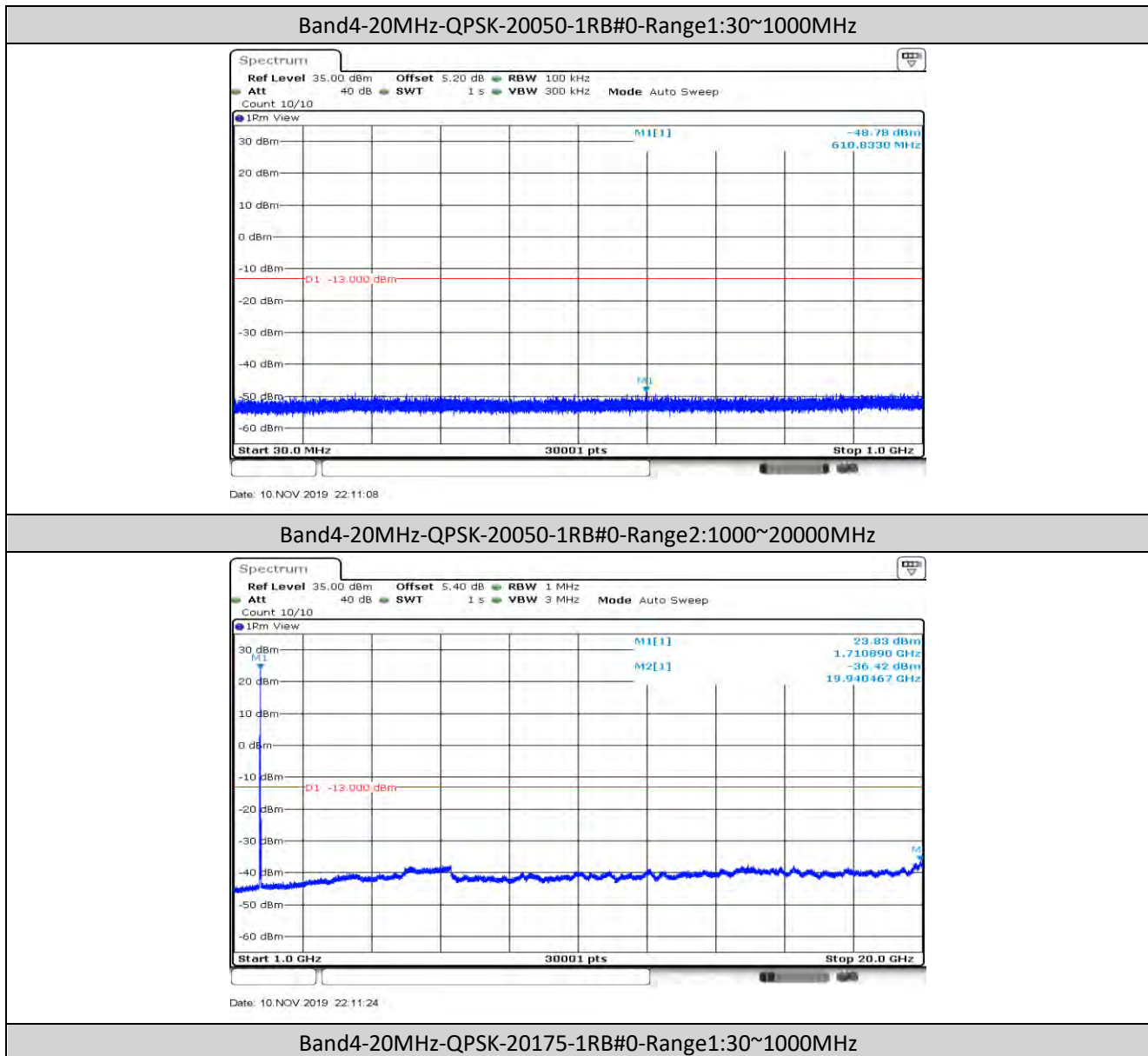


6. Spurious Emission at Antenna Terminal

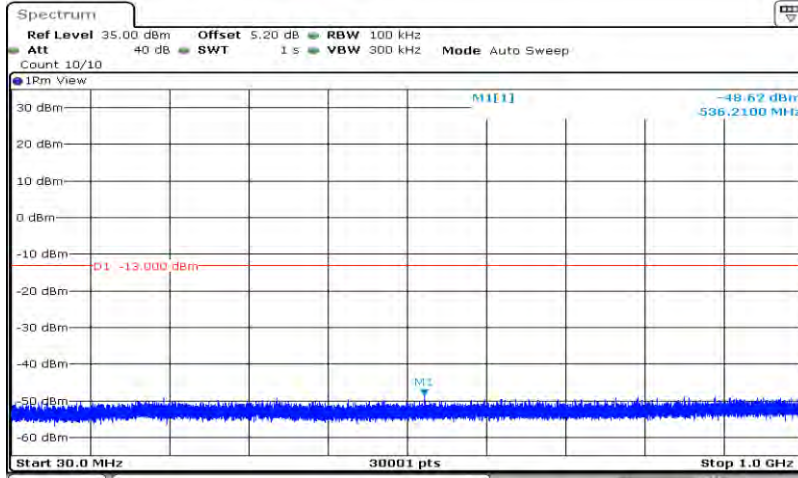
Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =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

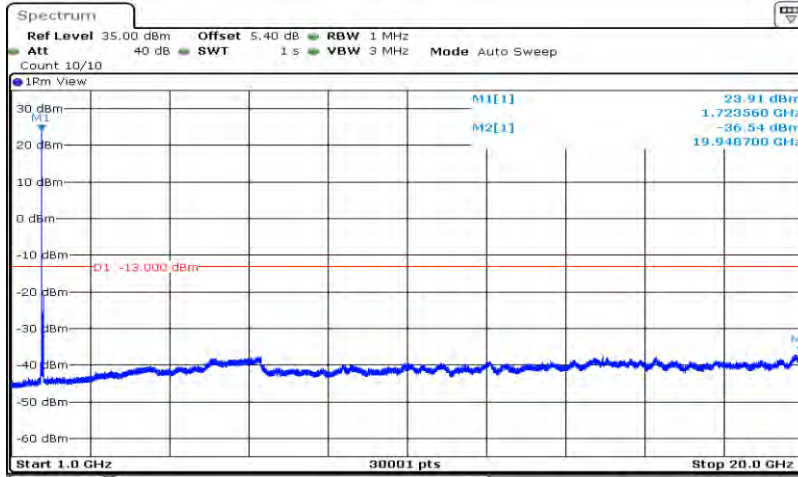


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Date: 10.NOV.2019 22:12:15

Band4-20MHz-QPSK-20175-1RB#0-Range2:1000~20000MHz

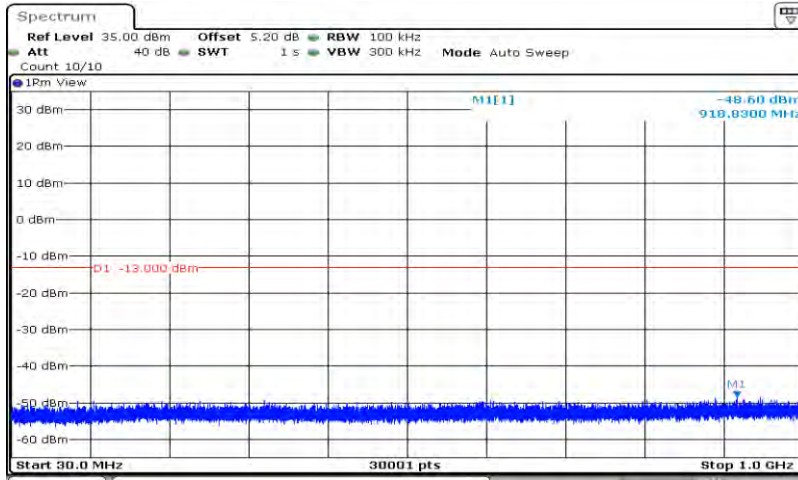


Date: 10.NOV.2019 22:12:32

Band4-20MHz-QPSK-20300-1RB#0-Range1:30~1000MHz

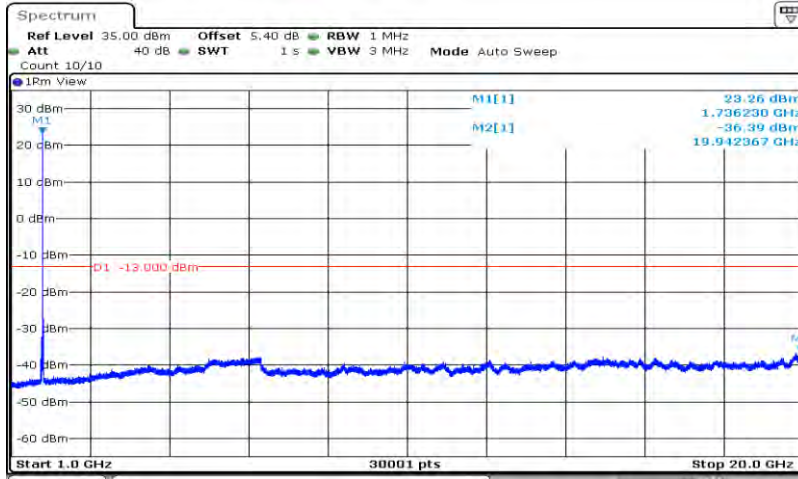


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Date: 10.NOV.2019 22:15:58

Band4-20MHz-QPSK-20300-1RB#0-Range2:1000~20000MHz

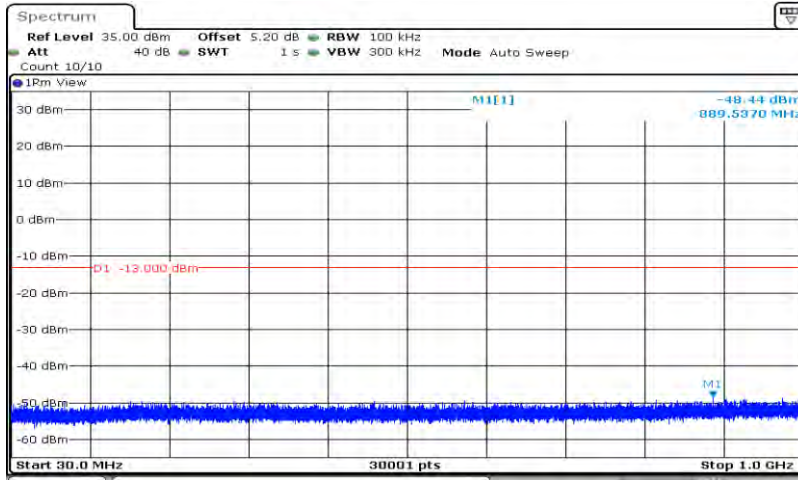


Date: 10.NOV.2019 22:16:14

Band4-20MHz-64QAM-20050-1RB#0-Range1:30~1000MHz

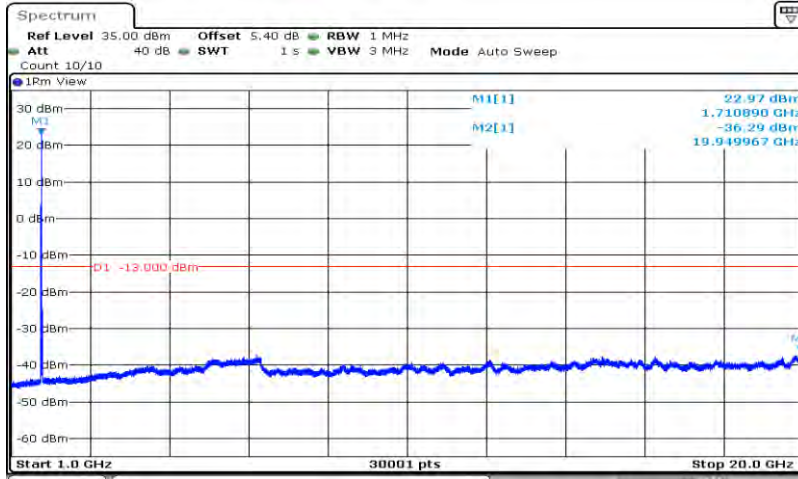


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Date: 28.NOV.2019 19:04:56

Band4-20MHz-64QAM-20050-1RB#0-Range2:1000~20000MHz

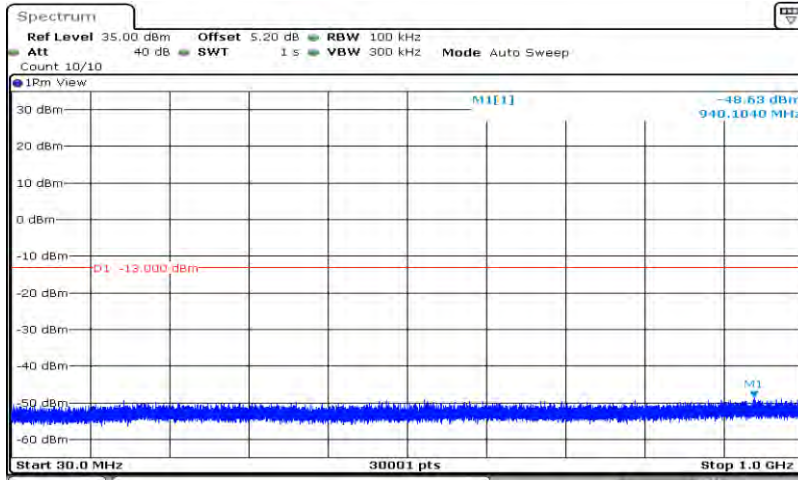


Date: 28.NOV.2019 19:05:12

Band4-20MHz-64QAM-20175-1RB#0-Range1:30~1000MHz

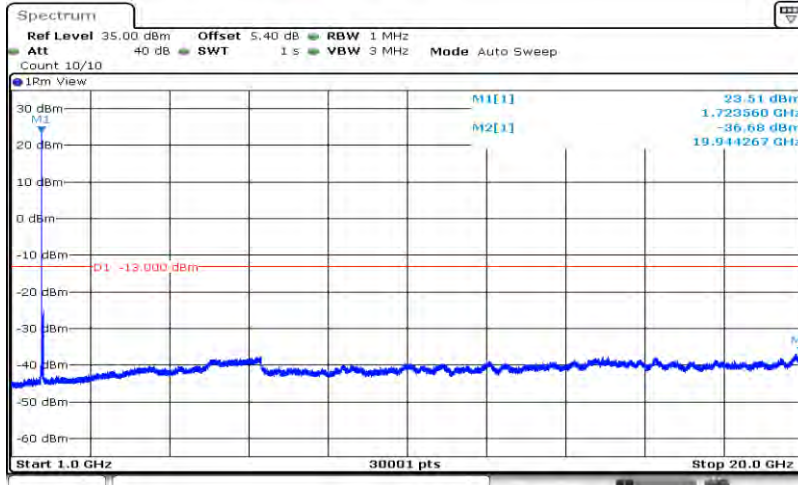


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Band4-20MHz-64QAM-20175-1RB#0-Range2:1000~20000MHz

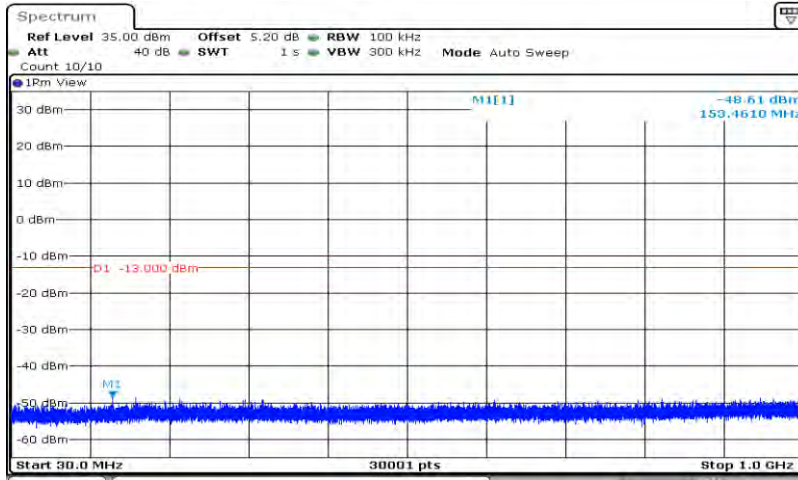


Date: 28.NOV.2019 19:05:47

Band4-20MHz-64QAM-20300-1RB#0-Range1:30~1000MHz

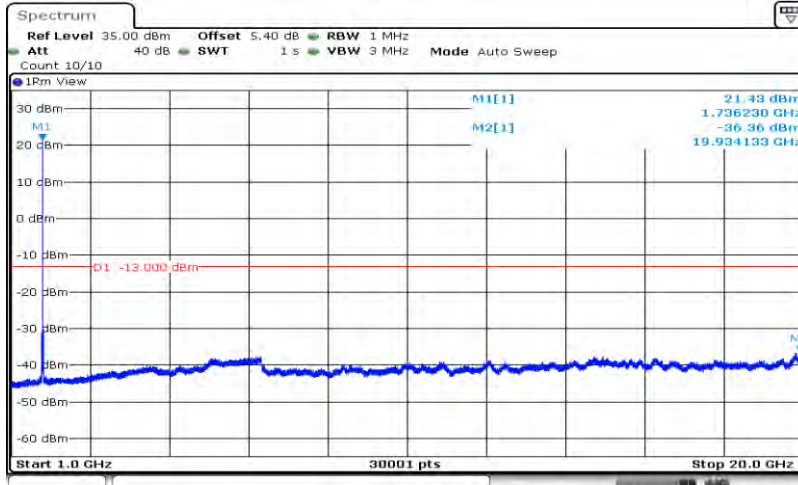


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Date: 28.NOV.2019 19:06:06

Band4-20MHz-64QAM-20300-1RB#0-Range2:1000~20000MHz

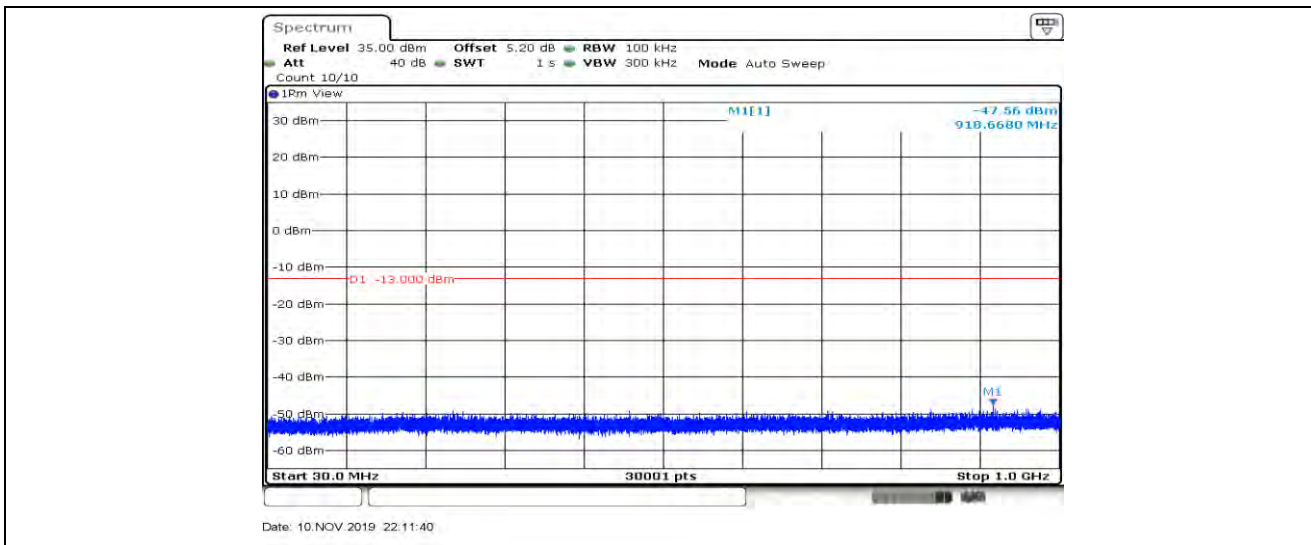


Date: 28.NOV.2019 19:06:22

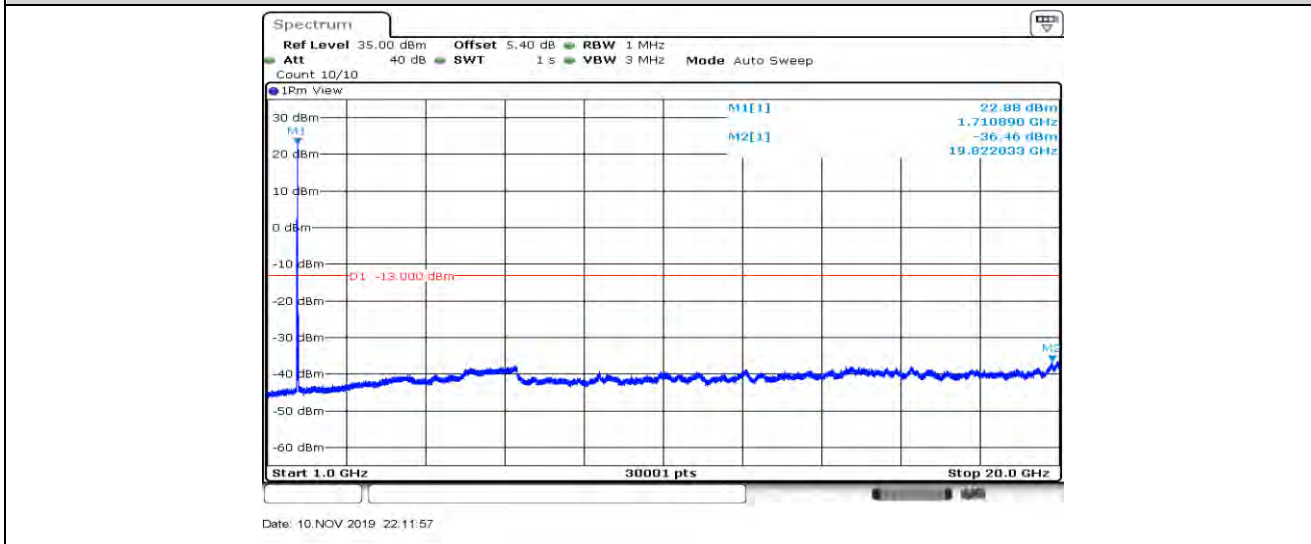
Band4-20MHz-16QAM-20050-1RB#0-Range1:30~1000MHz



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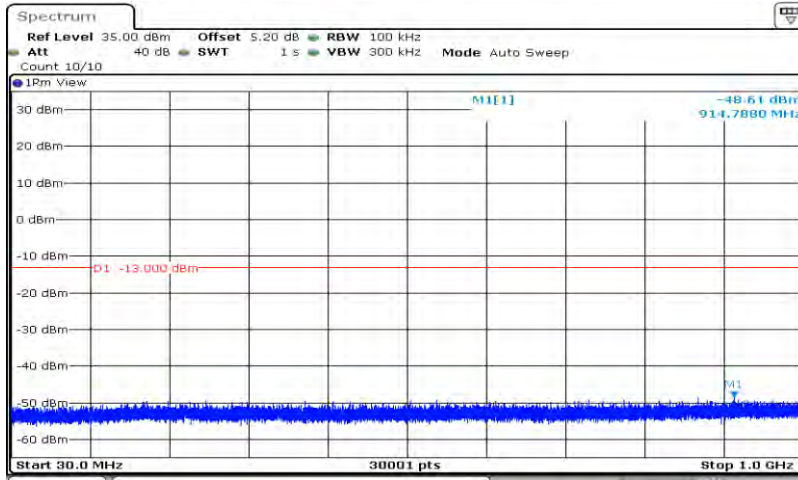
Band4-20MHz-16QAM-20050-1RB#0-Range2:1000~20000MHz



Band4-20MHz-16QAM-20175-1RB#0-Range1:30~1000MHz

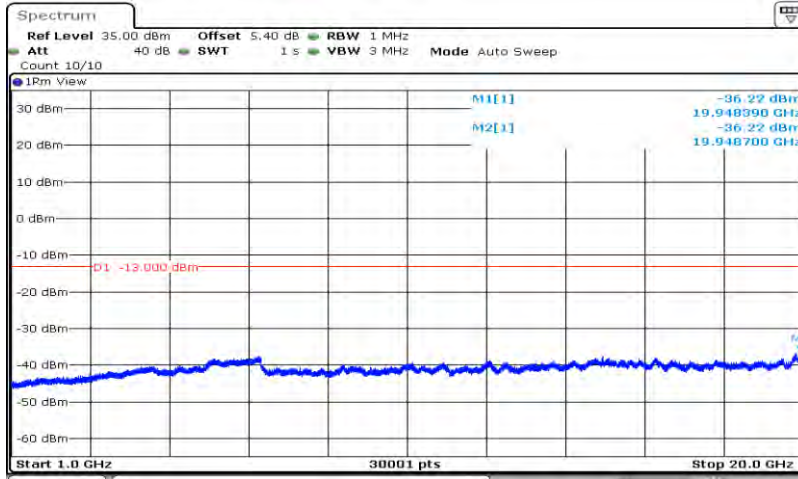


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Date: 10.NOV.2019 22:12:48

Band4-20MHz-16QAM-20175-1RB#0-Range2:1000~20000MHz

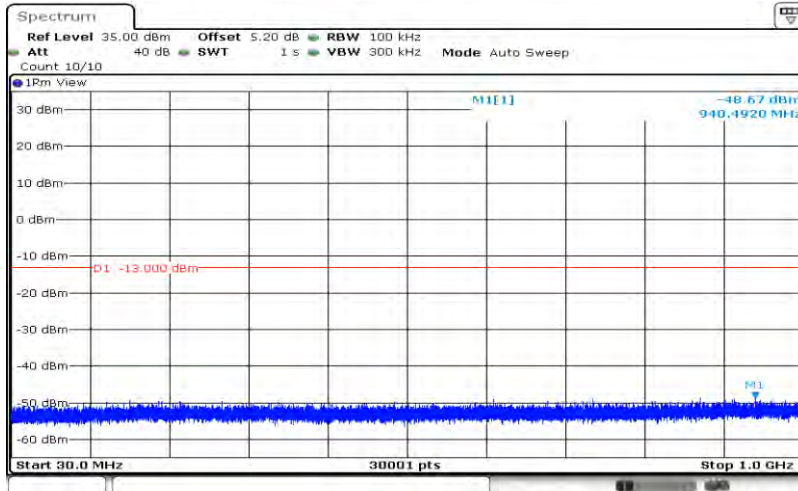


Date: 10.NOV.2019 22:13:04

Band4-20MHz-16QAM-20300-1RB#0-Range1:30~1000MHz

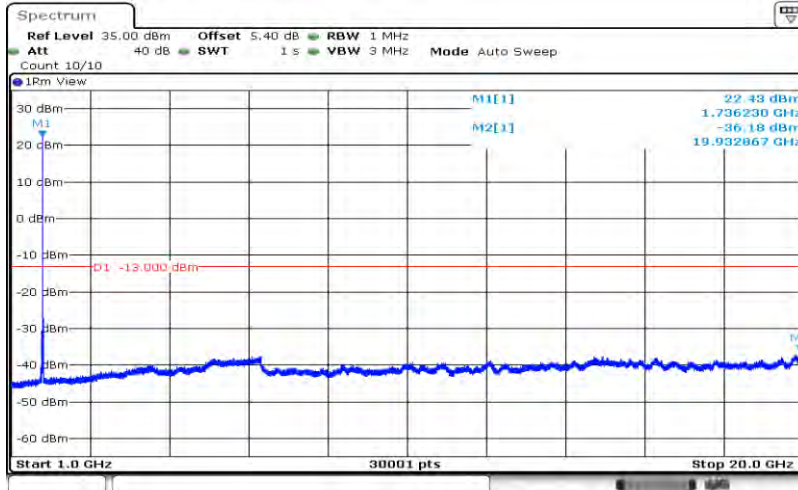


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Date: 10.NOV.2019 22:16:31

Band4-20MHz-16QAM-20300-1RB#0-Range2:1000~20000MHz



Date: 10.NOV.2019 22:16:47



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7. Field Strength of Spurious Radiation

7.1. Test Mode =LTE/TM1 20MHz

7.1.1. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 66.6193 | -68.62 | -13.00 | 55.62 | Vertical |
| 112.7451 | -65.05 | -13.00 | 52.05 | Vertical |
| 712.7201 | -63.09 | -13.00 | 50.09 | Vertical |
| 2701.9404 | -37.54 | -13.00 | 24.54 | Vertical |
| 8545.1848 | -52.14 | -13.00 | 39.14 | Vertical |
| 17994.4998 | -34.59 | -13.00 | 21.59 | Vertical |
| 37.1299 | -64.60 | -13.00 | 51.60 | Horizontal |
| 236.5233 | -68.05 | -13.00 | 55.05 | Horizontal |
| 547.1814 | -65.64 | -13.00 | 52.64 | Horizontal |
| 2698.7397 | -36.28 | -13.00 | 23.28 | Horizontal |
| 10043.2348 | -48.96 | -13.00 | 35.96 | Horizontal |
| 16399.9467 | -38.96 | -13.00 | 25.96 | Horizontal |

7.1.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 66.6193 | -68.56 | -13.00 | 55.56 | Vertical |
| 114.1517 | -65.59 | -13.00 | 52.59 | Vertical |
| 509.3495 | -66.38 | -13.00 | 53.38 | Vertical |
| 2699.9400 | -37.53 | -13.00 | 24.53 | Vertical |
| 9291.2097 | -48.60 | -13.00 | 35.60 | Vertical |
| 17996.4999 | -35.05 | -13.00 | 22.05 | Vertical |
| 43.1442 | -63.36 | -13.00 | 50.36 | Horizontal |
| 242.7801 | -68.75 | -13.00 | 55.75 | Horizontal |
| 522.2996 | -65.44 | -13.00 | 52.44 | Horizontal |
| 2699.1398 | -36.27 | -13.00 | 23.27 | Horizontal |
| 9309.2103 | -48.86 | -13.00 | 35.86 | Horizontal |
| 16393.9465 | -38.50 | -13.00 | 25.50 | Horizontal |



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7.1.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 56.1913 | -72.56 | -13.00 | 59.56 | Vertical |
| 112.1146 | -64.86 | -13.00 | 51.86 | Vertical |
| 516.0913 | -66.02 | -13.00 | 53.02 | Vertical |
| 2700.3401 | -37.20 | -13.00 | 24.20 | Vertical |
| 9879.7293 | -48.73 | -13.00 | 35.73 | Vertical |
| 17987.9996 | -34.11 | -13.00 | 21.11 | Vertical |
| 43.0957 | -63.30 | -13.00 | 50.30 | Horizontal |
| 238.1239 | -68.02 | -13.00 | 55.02 | Horizontal |
| 609.0220 | -63.03 | -13.00 | 50.03 | Horizontal |
| 2701.1402 | -36.09 | -13.00 | 23.09 | Horizontal |
| 9311.2104 | -48.34 | -13.00 | 35.34 | Horizontal |
| 16395.9465 | -38.73 | -13.00 | 25.73 | Horizontal |

Remark:

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



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8. Frequency Stability

8.1. Frequency Vs Voltage

| Band | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|-------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band4 | 20MHz | QPSK | 20050 | 100RB#0 | VL | NT | -14.81 | -0.008610 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 100RB#0 | VN | NT | -15.25 | -0.008866 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 100RB#0 | VH | NT | -17.41 | -0.010122 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | VL | NT | -12.26 | -0.007076 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | VN | NT | -17.15 | -0.009899 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | VH | NT | -11.74 | -0.006776 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 100RB#0 | VL | NT | -13.98 | -0.008011 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 100RB#0 | VN | NT | -13.19 | -0.007559 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 100RB#0 | VH | NT | -10.09 | -0.005782 | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 100RB#0 | VL | NT | -3.20 | -0.001860 | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 100RB#0 | VN | NT | -9.70 | -0.005640 | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 100RB#0 | VH | NT | -11.30 | -0.006570 | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 100RB#0 | VL | NT | -8.00 | -0.004618 | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 100RB#0 | VN | NT | -6.10 | -0.003521 | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 100RB#0 | VH | NT | -8.40 | -0.004848 | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 100RB#0 | VL | NT | -7.70 | -0.004413 | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 100RB#0 | VN | NT | -5.60 | -0.003209 | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 100RB#0 | VH | NT | -2.70 | -0.001547 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | VL | NT | -12.12 | -0.007047 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | VN | NT | -12.66 | -0.007360 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | VH | NT | -13.28 | -0.007721 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | VL | NT | -13.29 | -0.007671 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | VN | NT | -14.68 | -0.008473 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | VH | NT | -11.04 | -0.006372 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | VL | NT | -12.19 | -0.006986 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | VN | NT | -11.42 | -0.006544 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | VH | NT | -15.46 | -0.008860 | ±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 |
|-------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band4 | 20MHz | QPSK | 20050 | 100RB#0 | NV | -30 | -12.96 | -0.007535 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 100RB#0 | NV | -20 | -15.15 | -0.008808 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 100RB#0 | NV | 0 | -12.76 | -0.007419 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 100RB#0 | NV | 10 | -22.65 | -0.013169 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 100RB#0 | NV | 20 | -13.79 | -0.008017 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 100RB#0 | NV | 30 | -10.57 | -0.006145 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 100RB#0 | NV | 40 | -13.38 | -0.007779 | ±2.5 | PASS |



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| | | | | | | | | | | |
|-------|-------|-------|-------|---------|----|-----|--------|-----------|------|------|
| Band4 | 20MHz | QPSK | 20050 | 100RB#0 | NV | 50 | -13.76 | -0.008000 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | NV | -30 | -14.63 | -0.008444 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | NV | -20 | -14.39 | -0.008306 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | NV | 0 | -13.63 | -0.007867 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | NV | 10 | -18.35 | -0.010592 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | NV | 20 | -14.22 | -0.008208 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | NV | 30 | -12.65 | -0.007302 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | NV | 40 | -15.55 | -0.008975 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | NV | 50 | -15.39 | -0.008883 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 100RB#0 | NV | -30 | -11.57 | -0.006630 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 100RB#0 | NV | -20 | -9.54 | -0.005467 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 100RB#0 | NV | 0 | -10.66 | -0.006109 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 100RB#0 | NV | 10 | -12.04 | -0.006900 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 100RB#0 | NV | 20 | -10.64 | -0.006097 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 100RB#0 | NV | 30 | -8.27 | -0.004739 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 100RB#0 | NV | 40 | -9.98 | -0.005719 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 100RB#0 | NV | 50 | -14.12 | -0.008092 | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 100RB#0 | NV | -30 | -9.10 | -0.005291 | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 100RB#0 | NV | -20 | -7.00 | -0.004070 | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 100RB#0 | NV | 0 | -8.00 | -0.004651 | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 100RB#0 | NV | 10 | -3.60 | -0.002093 | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 100RB#0 | NV | 20 | -2.50 | -0.001453 | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 100RB#0 | NV | 30 | -4.60 | -0.002674 | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 100RB#0 | NV | 40 | -2.20 | -0.001279 | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20050 | 100RB#0 | NV | 50 | -6.10 | -0.003547 | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 100RB#0 | NV | -30 | -14.10 | -0.008139 | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 100RB#0 | NV | -20 | -7.90 | -0.004560 | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 100RB#0 | NV | 0 | -9.90 | -0.005714 | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 100RB#0 | NV | 10 | -11.50 | -0.006638 | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 100RB#0 | NV | 20 | -4.00 | -0.002309 | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 100RB#0 | NV | 30 | -8.80 | -0.005079 | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 100RB#0 | NV | 40 | -4.70 | -0.002713 | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20175 | 100RB#0 | NV | 50 | -8.70 | -0.005022 | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 100RB#0 | NV | -30 | -7.00 | -0.004011 | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 100RB#0 | NV | -20 | -5.00 | -0.002865 | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 100RB#0 | NV | 0 | -10.10 | -0.005788 | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 100RB#0 | NV | 10 | -5.10 | -0.002923 | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 100RB#0 | NV | 20 | -3.10 | -0.001777 | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 100RB#0 | NV | 30 | -3.10 | -0.001777 | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 100RB#0 | NV | 40 | -6.10 | -0.003496 | ±2.5 | PASS |
| Band4 | 20MHz | 64QAM | 20300 | 100RB#0 | NV | 50 | -4.00 | -0.002292 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | NV | -30 | -11.16 | -0.006488 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | NV | -20 | -10.53 | -0.006122 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | NV | 0 | -14.32 | -0.008326 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | NV | 10 | -10.93 | -0.006355 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | NV | 20 | -14.32 | -0.008326 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | NV | 30 | -11.60 | -0.006744 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | NV | 40 | -15.02 | -0.008733 | ±2.5 | PASS |



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| | | | | | | | | | | |
|-------|-------|-------|-------|---------|----|-----|--------|-----------|------|------|
| Band4 | 20MHz | 16QAM | 20050 | 100RB#0 | NV | 50 | -13.33 | -0.007750 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | NV | -30 | -15.91 | -0.009183 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | NV | -20 | -8.08 | -0.004664 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | NV | 0 | -9.54 | -0.005506 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | NV | 10 | -9.83 | -0.005674 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | NV | 20 | 8.17 | 0.004716 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | NV | 30 | -10.71 | -0.006182 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | NV | 40 | -13.07 | -0.007544 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | NV | 50 | -11.20 | -0.006465 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | NV | -30 | -12.12 | -0.006946 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | NV | -20 | -13.23 | -0.007582 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | NV | 0 | -11.77 | -0.006745 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | NV | 10 | -11.46 | -0.006567 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | NV | 20 | -9.83 | -0.005633 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | NV | 30 | -16.29 | -0.009335 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | NV | 40 | -10.14 | -0.005811 | ±2.5 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | NV | 50 | -12.45 | -0.007135 | ±2.5 | PASS |



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