

# Appendix B

## E-UTRA Band 2



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|      |                                |    |
|------|--------------------------------|----|
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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 |
|-------|-----------|------------|---------|------------------|----------------------|------------|-------------|---------|
| Band2 | 1.4MHz    | QPSK       | 18607   | 1RB#0            | 22.18                | 21.18      | 33.00       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18607   | 1RB#2            | 22.16                | 21.16      | 33.00       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18607   | 1RB#5            | 22.18                | 21.18      | 33.00       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18607   | 3RB#0            | 22.22                | 21.22      | 33.00       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18607   | 3RB#2            | 22.14                | 21.14      | 33.00       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18607   | 3RB#3            | 22.22                | 21.22      | 33.00       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18607   | 6RB#0            | 21.30                | 20.30      | 33.00       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18900   | 1RB#0            | 22.38                | 21.38      | 33.00       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18900   | 1RB#2            | 22.42                | 21.42      | 33.00       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18900   | 1RB#5            | 22.39                | 21.39      | 33.00       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18900   | 3RB#0            | 22.43                | 21.43      | 33.00       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18900   | 3RB#2            | 22.43                | 21.43      | 33.00       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18900   | 3RB#3            | 22.41                | 21.41      | 33.00       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18900   | 6RB#0            | 21.45                | 20.45      | 33.00       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 19193   | 1RB#0            | 22.40                | 21.40      | 33.00       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 19193   | 1RB#2            | 22.56                | 21.56      | 33.00       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 19193   | 1RB#5            | 22.39                | 21.39      | 33.00       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 19193   | 3RB#0            | 22.50                | 21.50      | 33.00       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 19193   | 3RB#2            | 22.50                | 21.50      | 33.00       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 19193   | 3RB#3            | 22.54                | 21.54      | 33.00       | PASS    |
| Band2 | 1.4MHz    | QPSK       | 19193   | 6RB#0            | 21.53                | 20.53      | 33.00       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18607   | 1RB#0            | 21.61                | 20.61      | 33.00       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18607   | 1RB#2            | 21.56                | 20.56      | 33.00       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18607   | 1RB#5            | 21.48                | 20.48      | 33.00       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18607   | 3RB#0            | 21.17                | 20.17      | 33.00       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18607   | 3RB#2            | 21.14                | 20.14      | 33.00       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18607   | 3RB#3            | 21.23                | 20.23      | 33.00       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18607   | 6RB#0            | 20.49                | 19.49      | 33.00       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18900   | 1RB#0            | 21.78                | 20.78      | 33.00       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18900   | 1RB#2            | 21.78                | 20.78      | 33.00       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18900   | 1RB#5            | 21.46                | 20.46      | 33.00       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18900   | 3RB#0            | 21.51                | 20.51      | 33.00       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18900   | 3RB#2            | 21.48                | 20.48      | 33.00       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18900   | 3RB#3            | 21.34                | 20.34      | 33.00       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18900   | 6RB#0            | 20.61                | 19.61      | 33.00       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 19193   | 1RB#0            | 21.84                | 20.84      | 33.00       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 19193   | 1RB#2            | 21.76                | 20.76      | 33.00       | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 19193   | 1RB#5            | 21.65                | 20.65      | 33.00       | PASS    |



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|       |        |       |       |        |       |       |       |      |
|-------|--------|-------|-------|--------|-------|-------|-------|------|
| Band2 | 1.4MHz | 16QAM | 19193 | 3RB#0  | 21.34 | 20.34 | 33.00 | PASS |
| Band2 | 1.4MHz | 16QAM | 19193 | 3RB#2  | 21.55 | 20.55 | 33.00 | PASS |
| Band2 | 1.4MHz | 16QAM | 19193 | 3RB#3  | 21.48 | 20.48 | 33.00 | PASS |
| Band2 | 1.4MHz | 16QAM | 19193 | 6RB#0  | 20.72 | 19.72 | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 18615 | 1RB#0  | 22.26 | 21.26 | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 18615 | 1RB#7  | 22.44 | 21.44 | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 18615 | 1RB#14 | 22.25 | 21.25 | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 18615 | 15RB#0 | 21.22 | 20.22 | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 18615 | 8RB#0  | 21.26 | 20.26 | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 18615 | 8RB#7  | 21.30 | 20.30 | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 18615 | 15RB#0 | 21.27 | 20.27 | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 18900 | 1RB#0  | 22.38 | 21.38 | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 18900 | 1RB#7  | 22.63 | 21.63 | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 18900 | 1RB#14 | 22.50 | 21.50 | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 18900 | 15RB#0 | 21.53 | 20.53 | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 18900 | 8RB#0  | 21.61 | 20.61 | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 18900 | 8RB#7  | 21.46 | 20.46 | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 18900 | 15RB#0 | 21.54 | 20.54 | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 19185 | 1RB#0  | 22.51 | 21.51 | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 19185 | 1RB#7  | 22.61 | 21.61 | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 19185 | 1RB#14 | 22.52 | 21.52 | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 19185 | 15RB#0 | 21.61 | 20.61 | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 19185 | 8RB#0  | 21.60 | 20.60 | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 19185 | 8RB#7  | 21.59 | 20.59 | 33.00 | PASS |
| Band2 | 3MHz   | QPSK  | 19185 | 15RB#0 | 21.54 | 20.54 | 33.00 | PASS |
| Band2 | 3MHz   | 16QAM | 18615 | 1RB#0  | 21.69 | 20.69 | 33.00 | PASS |
| Band2 | 3MHz   | 16QAM | 18615 | 1RB#7  | 21.61 | 20.61 | 33.00 | PASS |
| Band2 | 3MHz   | 16QAM | 18615 | 1RB#14 | 21.58 | 20.58 | 33.00 | PASS |
| Band2 | 3MHz   | 16QAM | 18615 | 15RB#0 | 20.37 | 19.37 | 33.00 | PASS |
| Band2 | 3MHz   | 16QAM | 18615 | 8RB#0  | 20.36 | 19.36 | 33.00 | PASS |
| Band2 | 3MHz   | 16QAM | 18615 | 8RB#7  | 20.37 | 19.37 | 33.00 | PASS |
| Band2 | 3MHz   | 16QAM | 18615 | 15RB#0 | 20.18 | 19.18 | 33.00 | PASS |
| Band2 | 3MHz   | 16QAM | 18900 | 1RB#0  | 21.87 | 20.87 | 33.00 | PASS |
| Band2 | 3MHz   | 16QAM | 18900 | 1RB#7  | 21.81 | 20.81 | 33.00 | PASS |
| Band2 | 3MHz   | 16QAM | 18900 | 1RB#14 | 21.83 | 20.83 | 33.00 | PASS |
| Band2 | 3MHz   | 16QAM | 18900 | 15RB#0 | 20.56 | 19.56 | 33.00 | PASS |
| Band2 | 3MHz   | 16QAM | 18900 | 8RB#0  | 20.64 | 19.64 | 33.00 | PASS |
| Band2 | 3MHz   | 16QAM | 18900 | 8RB#7  | 20.64 | 19.64 | 33.00 | PASS |
| Band2 | 3MHz   | 16QAM | 18900 | 15RB#0 | 20.38 | 19.38 | 33.00 | PASS |
| Band2 | 3MHz   | 16QAM | 19185 | 1RB#0  | 21.88 | 20.88 | 33.00 | PASS |
| Band2 | 3MHz   | 16QAM | 19185 | 1RB#7  | 21.76 | 20.76 | 33.00 | PASS |
| Band2 | 3MHz   | 16QAM | 19185 | 1RB#14 | 21.65 | 20.65 | 33.00 | PASS |
| Band2 | 3MHz   | 16QAM | 19185 | 15RB#0 | 20.39 | 19.39 | 33.00 | PASS |
| Band2 | 3MHz   | 16QAM | 19185 | 8RB#0  | 20.51 | 19.51 | 33.00 | PASS |
| Band2 | 3MHz   | 16QAM | 19185 | 8RB#7  | 20.54 | 19.54 | 33.00 | PASS |
| Band2 | 3MHz   | 16QAM | 19185 | 15RB#0 | 20.72 | 19.72 | 33.00 | PASS |
| Band2 | 5MHz   | QPSK  | 18625 | 1RB#0  | 22.12 | 21.12 | 33.00 | PASS |



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|       |       |       |       |         |       |       |       |      |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band2 | 5MHz  | QPSK  | 18625 | 1RB#13  | 22.33 | 21.33 | 33.00 | PASS |
| Band2 | 5MHz  | QPSK  | 18625 | 1RB#24  | 22.20 | 21.20 | 33.00 | PASS |
| Band2 | 5MHz  | QPSK  | 18625 | 12RB#0  | 21.19 | 20.19 | 33.00 | PASS |
| Band2 | 5MHz  | QPSK  | 18625 | 12RB#6  | 21.28 | 20.28 | 33.00 | PASS |
| Band2 | 5MHz  | QPSK  | 18625 | 12RB#13 | 21.27 | 20.27 | 33.00 | PASS |
| Band2 | 5MHz  | QPSK  | 18625 | 25RB#0  | 21.21 | 20.21 | 33.00 | PASS |
| Band2 | 5MHz  | QPSK  | 18900 | 1RB#0   | 22.37 | 21.37 | 33.00 | PASS |
| Band2 | 5MHz  | QPSK  | 18900 | 1RB#13  | 22.49 | 21.49 | 33.00 | PASS |
| Band2 | 5MHz  | QPSK  | 18900 | 1RB#24  | 22.24 | 21.24 | 33.00 | PASS |
| Band2 | 5MHz  | QPSK  | 18900 | 12RB#0  | 21.51 | 20.51 | 33.00 | PASS |
| Band2 | 5MHz  | QPSK  | 18900 | 12RB#6  | 21.55 | 20.55 | 33.00 | PASS |
| Band2 | 5MHz  | QPSK  | 18900 | 12RB#13 | 21.54 | 20.54 | 33.00 | PASS |
| Band2 | 5MHz  | QPSK  | 18900 | 25RB#0  | 21.45 | 20.45 | 33.00 | PASS |
| Band2 | 5MHz  | QPSK  | 19175 | 1RB#0   | 22.50 | 21.50 | 33.00 | PASS |
| Band2 | 5MHz  | QPSK  | 19175 | 1RB#13  | 22.49 | 21.49 | 33.00 | PASS |
| Band2 | 5MHz  | QPSK  | 19175 | 1RB#24  | 22.47 | 21.47 | 33.00 | PASS |
| Band2 | 5MHz  | QPSK  | 19175 | 12RB#0  | 21.55 | 20.55 | 33.00 | PASS |
| Band2 | 5MHz  | QPSK  | 19175 | 12RB#6  | 21.72 | 20.72 | 33.00 | PASS |
| Band2 | 5MHz  | QPSK  | 19175 | 12RB#13 | 21.54 | 20.54 | 33.00 | PASS |
| Band2 | 5MHz  | QPSK  | 19175 | 25RB#0  | 21.52 | 20.52 | 33.00 | PASS |
| Band2 | 5MHz  | 16QAM | 18625 | 1RB#0   | 21.51 | 20.51 | 33.00 | PASS |
| Band2 | 5MHz  | 16QAM | 18625 | 1RB#13  | 21.66 | 20.66 | 33.00 | PASS |
| Band2 | 5MHz  | 16QAM | 18625 | 1RB#24  | 21.52 | 20.52 | 33.00 | PASS |
| Band2 | 5MHz  | 16QAM | 18625 | 12RB#0  | 20.19 | 19.19 | 33.00 | PASS |
| Band2 | 5MHz  | 16QAM | 18625 | 12RB#6  | 20.25 | 19.25 | 33.00 | PASS |
| Band2 | 5MHz  | 16QAM | 18625 | 12RB#13 | 20.19 | 19.19 | 33.00 | PASS |
| Band2 | 5MHz  | 16QAM | 18625 | 25RB#0  | 20.28 | 19.28 | 33.00 | PASS |
| Band2 | 5MHz  | 16QAM | 18900 | 1RB#0   | 21.69 | 20.69 | 33.00 | PASS |
| Band2 | 5MHz  | 16QAM | 18900 | 1RB#13  | 21.89 | 20.89 | 33.00 | PASS |
| Band2 | 5MHz  | 16QAM | 18900 | 1RB#24  | 21.80 | 20.80 | 33.00 | PASS |
| Band2 | 5MHz  | 16QAM | 18900 | 12RB#0  | 20.44 | 19.44 | 33.00 | PASS |
| Band2 | 5MHz  | 16QAM | 18900 | 12RB#6  | 20.59 | 19.59 | 33.00 | PASS |
| Band2 | 5MHz  | 16QAM | 18900 | 12RB#13 | 20.40 | 19.40 | 33.00 | PASS |
| Band2 | 5MHz  | 16QAM | 18900 | 25RB#0  | 20.40 | 19.40 | 33.00 | PASS |
| Band2 | 5MHz  | 16QAM | 19175 | 1RB#0   | 21.86 | 20.86 | 33.00 | PASS |
| Band2 | 5MHz  | 16QAM | 19175 | 1RB#13  | 21.94 | 20.94 | 33.00 | PASS |
| Band2 | 5MHz  | 16QAM | 19175 | 1RB#24  | 21.69 | 20.69 | 33.00 | PASS |
| Band2 | 5MHz  | 16QAM | 19175 | 12RB#0  | 20.50 | 19.50 | 33.00 | PASS |
| Band2 | 5MHz  | 16QAM | 19175 | 12RB#6  | 20.56 | 19.56 | 33.00 | PASS |
| Band2 | 5MHz  | 16QAM | 19175 | 12RB#13 | 20.46 | 19.46 | 33.00 | PASS |
| Band2 | 5MHz  | 16QAM | 19175 | 25RB#0  | 20.53 | 19.53 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 18650 | 1RB#0   | 22.14 | 21.14 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 18650 | 1RB#25  | 22.22 | 21.22 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 18650 | 1RB#49  | 22.26 | 21.26 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 18650 | 25RB#0  | 21.32 | 20.32 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 18650 | 25RB#13 | 21.24 | 20.24 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 18650 | 25RB#25 | 21.26 | 20.26 | 33.00 | PASS |



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|       |       |       |       |         |       |       |       |      |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band2 | 10MHz | QPSK  | 18650 | 50RB#0  | 21.27 | 20.27 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 18900 | 1RB#0   | 22.34 | 21.34 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 18900 | 1RB#25  | 22.52 | 21.52 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 18900 | 1RB#49  | 22.26 | 21.26 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 18900 | 25RB#0  | 21.48 | 20.48 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 18900 | 25RB#13 | 21.55 | 20.55 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 18900 | 25RB#25 | 21.62 | 20.62 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 18900 | 50RB#0  | 21.49 | 20.49 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 19150 | 1RB#0   | 22.37 | 21.37 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 19150 | 1RB#25  | 22.57 | 21.57 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 19150 | 1RB#49  | 22.34 | 21.34 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 19150 | 25RB#0  | 21.54 | 20.54 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 19150 | 25RB#13 | 21.62 | 20.62 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 19150 | 25RB#25 | 21.70 | 20.70 | 33.00 | PASS |
| Band2 | 10MHz | QPSK  | 19150 | 50RB#0  | 21.57 | 20.57 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 1RB#0   | 21.52 | 20.52 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 1RB#25  | 21.77 | 20.77 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 1RB#49  | 21.55 | 20.55 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 25RB#0  | 20.22 | 19.22 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 25RB#13 | 20.29 | 19.29 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 25RB#25 | 20.35 | 19.35 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18650 | 50RB#0  | 20.38 | 19.38 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 1RB#0   | 21.73 | 20.73 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 1RB#25  | 21.70 | 20.70 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 1RB#49  | 21.54 | 20.54 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 25RB#0  | 20.48 | 19.48 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 25RB#13 | 20.57 | 19.57 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 25RB#25 | 20.61 | 19.61 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 18900 | 50RB#0  | 20.54 | 19.54 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 1RB#0   | 21.78 | 20.78 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 1RB#25  | 21.75 | 20.75 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 1RB#49  | 21.59 | 20.59 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 25RB#0  | 20.54 | 19.54 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 25RB#13 | 20.63 | 19.63 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 25RB#25 | 20.66 | 19.66 | 33.00 | PASS |
| Band2 | 10MHz | 16QAM | 19150 | 50RB#0  | 20.56 | 19.56 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 18675 | 1RB#0   | 22.40 | 21.40 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 18675 | 1RB#38  | 22.47 | 21.47 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 18675 | 1RB#74  | 22.40 | 21.40 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 18675 | 36RB#0  | 21.45 | 20.45 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 18675 | 36RB#18 | 21.49 | 20.49 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 18675 | 36RB#39 | 21.68 | 20.68 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 18675 | 75RB#0  | 21.61 | 20.61 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 18900 | 1RB#0   | 22.36 | 21.36 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 18900 | 1RB#38  | 22.50 | 21.50 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 18900 | 1RB#74  | 22.38 | 21.38 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 18900 | 36RB#0  | 21.43 | 20.43 | 33.00 | PASS |



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|       |       |       |       |         |       |       |       |      |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band2 | 15MHz | QPSK  | 18900 | 36RB#18 | 21.49 | 20.49 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 18900 | 36RB#39 | 21.51 | 20.51 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 18900 | 75RB#0  | 21.47 | 20.47 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 19125 | 1RB#0   | 22.43 | 21.43 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 19125 | 1RB#38  | 22.52 | 21.52 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 19125 | 1RB#74  | 22.43 | 21.43 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 19125 | 36RB#0  | 21.51 | 20.51 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 19125 | 36RB#18 | 21.54 | 20.54 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 19125 | 36RB#39 | 21.76 | 20.76 | 33.00 | PASS |
| Band2 | 15MHz | QPSK  | 19125 | 75RB#0  | 21.64 | 20.64 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 1RB#0   | 21.56 | 20.56 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 1RB#38  | 21.81 | 20.81 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 1RB#74  | 21.47 | 20.47 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 36RB#0  | 20.46 | 19.46 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 36RB#18 | 20.55 | 19.55 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 36RB#39 | 20.57 | 19.57 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18675 | 75RB#0  | 20.57 | 19.57 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 1RB#0   | 21.52 | 20.52 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 1RB#38  | 21.65 | 20.65 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 1RB#74  | 21.61 | 20.61 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 36RB#0  | 20.47 | 19.47 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 36RB#18 | 20.40 | 19.40 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 36RB#39 | 20.48 | 19.48 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 18900 | 75RB#0  | 20.48 | 19.48 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 1RB#0   | 21.59 | 20.59 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 1RB#38  | 21.84 | 20.84 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 1RB#74  | 21.55 | 20.55 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 36RB#0  | 20.50 | 19.50 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 36RB#18 | 20.61 | 19.61 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 36RB#39 | 20.65 | 19.65 | 33.00 | PASS |
| Band2 | 15MHz | 16QAM | 19125 | 75RB#0  | 20.59 | 19.59 | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 18700 | 1RB#0   | 22.01 | 21.01 | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 18700 | 1RB#50  | 22.21 | 21.21 | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 18700 | 1RB#99  | 22.02 | 21.02 | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 18700 | 50RB#0  | 21.20 | 20.20 | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 18700 | 50RB#25 | 21.39 | 20.39 | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 18700 | 50RB#50 | 21.45 | 20.45 | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 18700 | 100RB#0 | 21.33 | 20.33 | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 18900 | 1RB#0   | 21.99 | 20.99 | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 18900 | 1RB#50  | 22.53 | 21.53 | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 18900 | 1RB#99  | 22.06 | 21.06 | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 18900 | 50RB#0  | 21.39 | 20.39 | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 18900 | 50RB#25 | 21.58 | 20.58 | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 18900 | 50RB#50 | 21.43 | 20.43 | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 18900 | 100RB#0 | 21.57 | 20.57 | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 1RB#0   | 22.12 | 21.12 | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 1RB#50  | 22.65 | 21.65 | 33.00 | PASS |



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|       |       |       |       |         |       |       |       |      |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band2 | 20MHz | QPSK  | 19100 | 1RB#99  | 22.18 | 21.18 | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 50RB#0  | 21.53 | 20.53 | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 50RB#25 | 21.53 | 20.53 | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 50RB#50 | 21.56 | 20.56 | 33.00 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 100RB#0 | 21.71 | 20.71 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 1RB#0   | 21.05 | 20.05 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 1RB#50  | 21.59 | 20.59 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 1RB#99  | 21.46 | 20.46 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 50RB#0  | 20.24 | 19.24 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 50RB#25 | 20.38 | 19.38 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 50RB#50 | 20.44 | 19.44 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 100RB#0 | 20.41 | 19.41 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 1RB#0   | 21.41 | 20.41 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 1RB#50  | 21.78 | 20.78 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 1RB#99  | 21.59 | 20.59 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 50RB#0  | 20.46 | 19.46 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 50RB#25 | 20.57 | 19.57 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 50RB#50 | 20.46 | 19.46 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 100RB#0 | 20.44 | 19.44 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 1RB#0   | 21.38 | 20.38 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 1RB#50  | 21.87 | 20.87 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 1RB#99  | 21.40 | 20.40 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 50RB#0  | 20.67 | 19.67 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 50RB#25 | 20.67 | 19.67 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 50RB#50 | 20.65 | 19.65 | 33.00 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 100RB#0 | 20.64 | 19.64 | 33.00 | PASS |

Remark:

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

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

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



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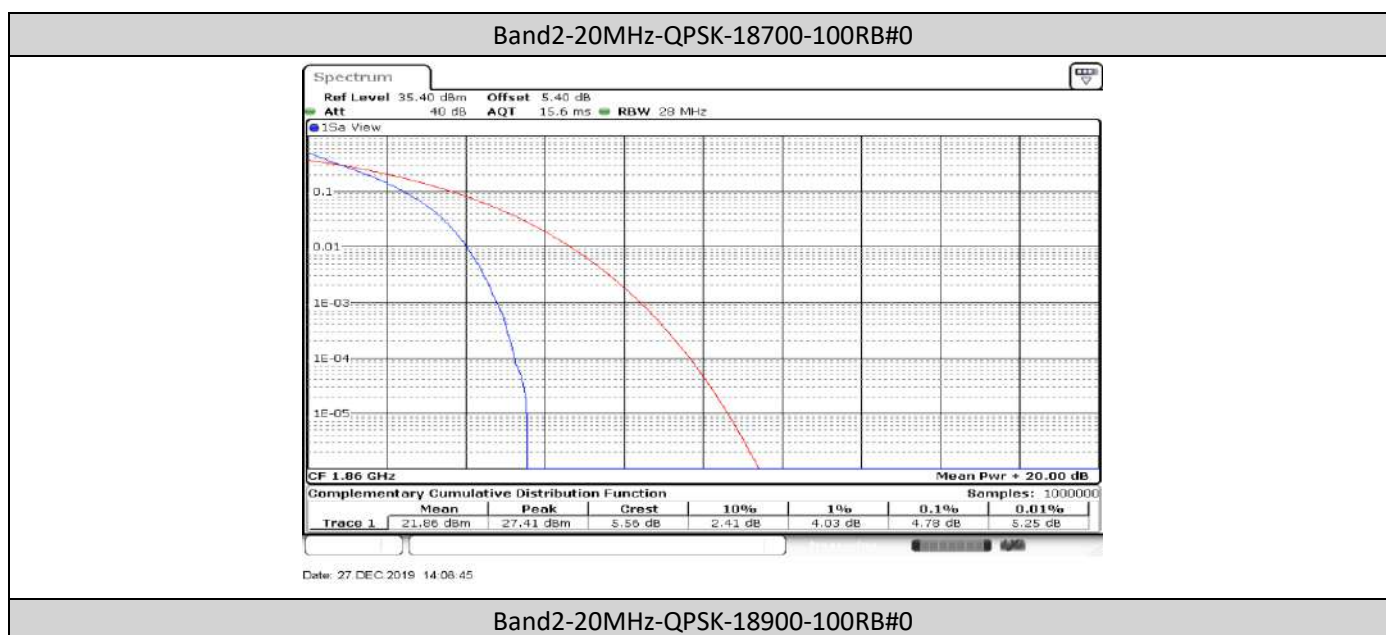


## 2. Peak-to-Average Ratio (CCDF)

### 2.1. Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|-------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band2 | 20MHz     | QPSK       | 18700   | 100RB#0          | 4.78       | 13        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0          | 4.61       | 13        | PASS    |
| Band2 | 20MHz     | QPSK       | 19100   | 100RB#0          | 4.70       | 13        | PASS    |
| Band2 | 20MHz     | 16QAM      | 18700   | 100RB#0          | 5.57       | 13        | PASS    |
| Band2 | 20MHz     | 16QAM      | 18900   | 100RB#0          | 5.48       | 13        | PASS    |
| Band2 | 20MHz     | 16QAM      | 19100   | 100RB#0          | 5.51       | 13        | PASS    |

### 2.2. Test Plots





Date: 27 DEC. 2019 14:09:08

Band2-20MHz-QPSK-19100-100RB#0



Date: 27 DEC. 2019 14:09:31

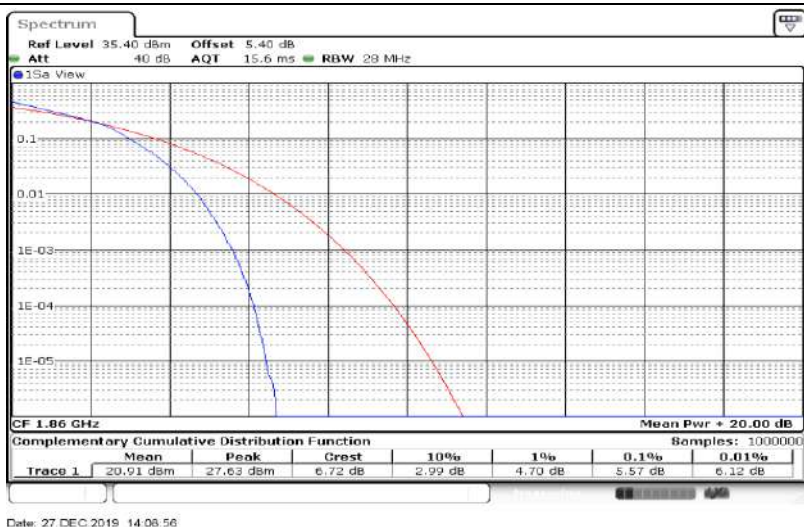
Band2-20MHz-16QAM-18700-100RB#0



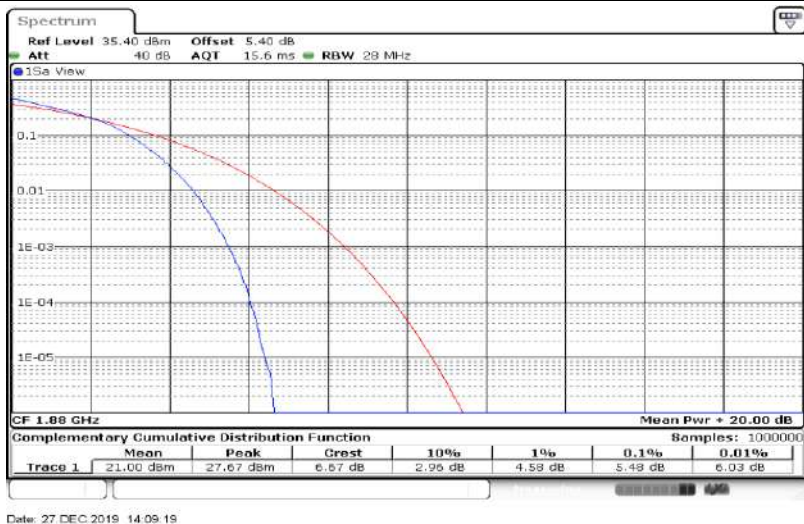
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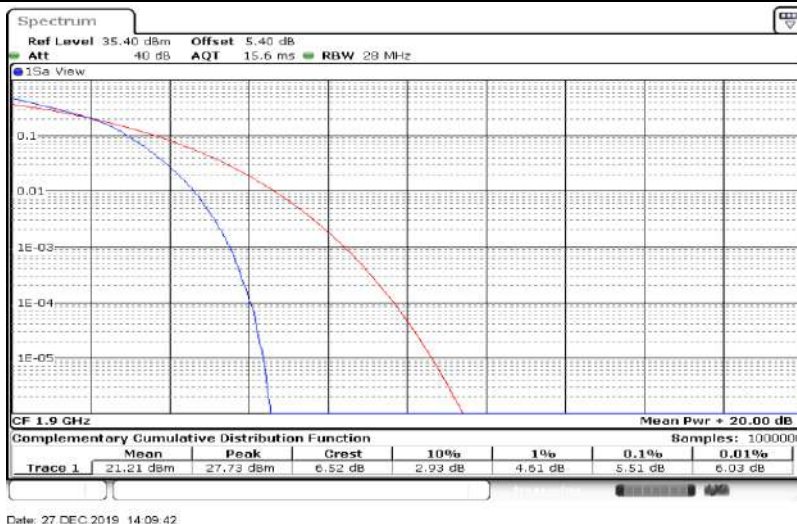


Band2-20MHz-16QAM-18900-100RB#0



Band2-20MHz-16QAM-19100-100RB#0





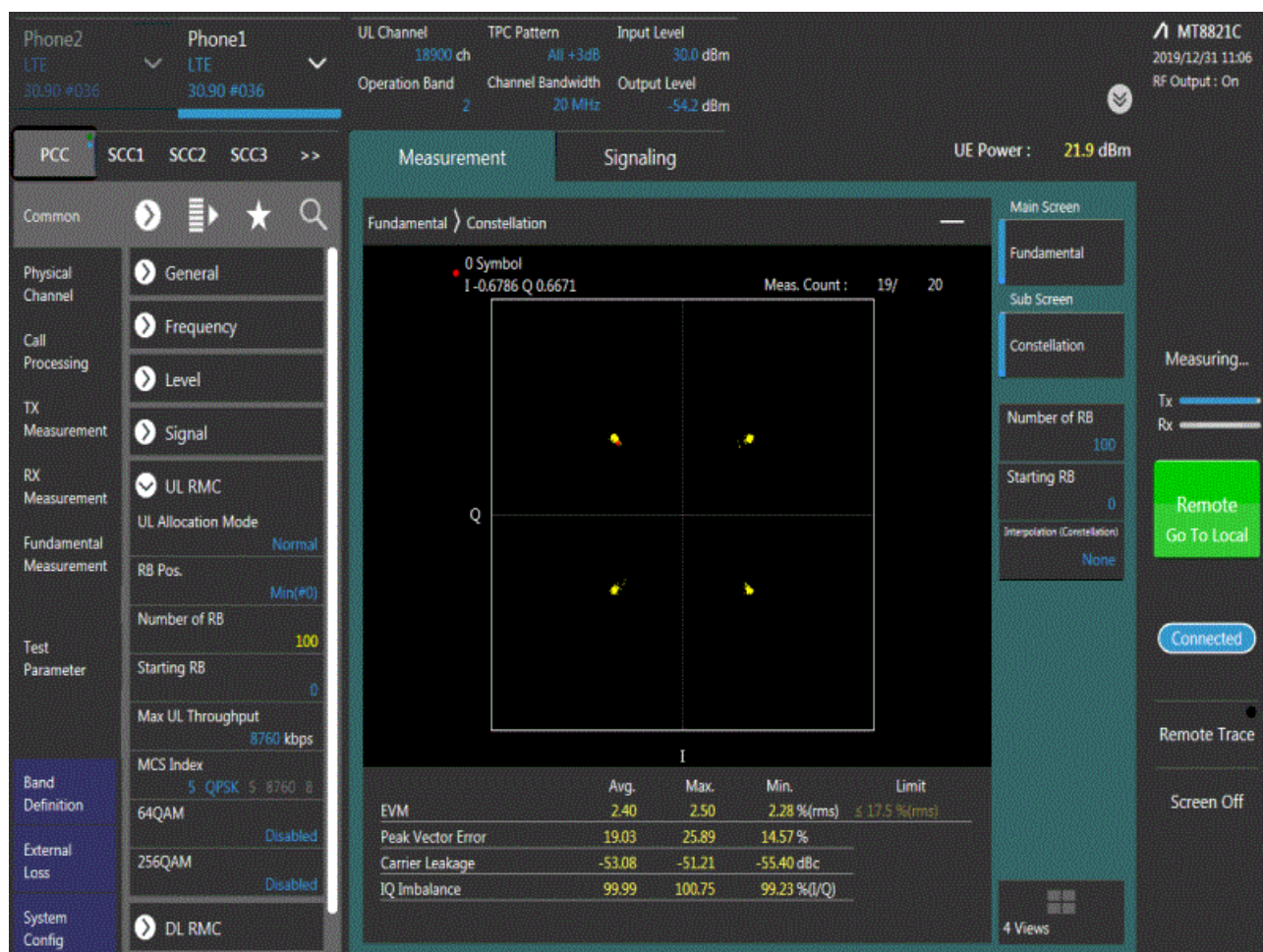
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### 3. Modulation Characteristics

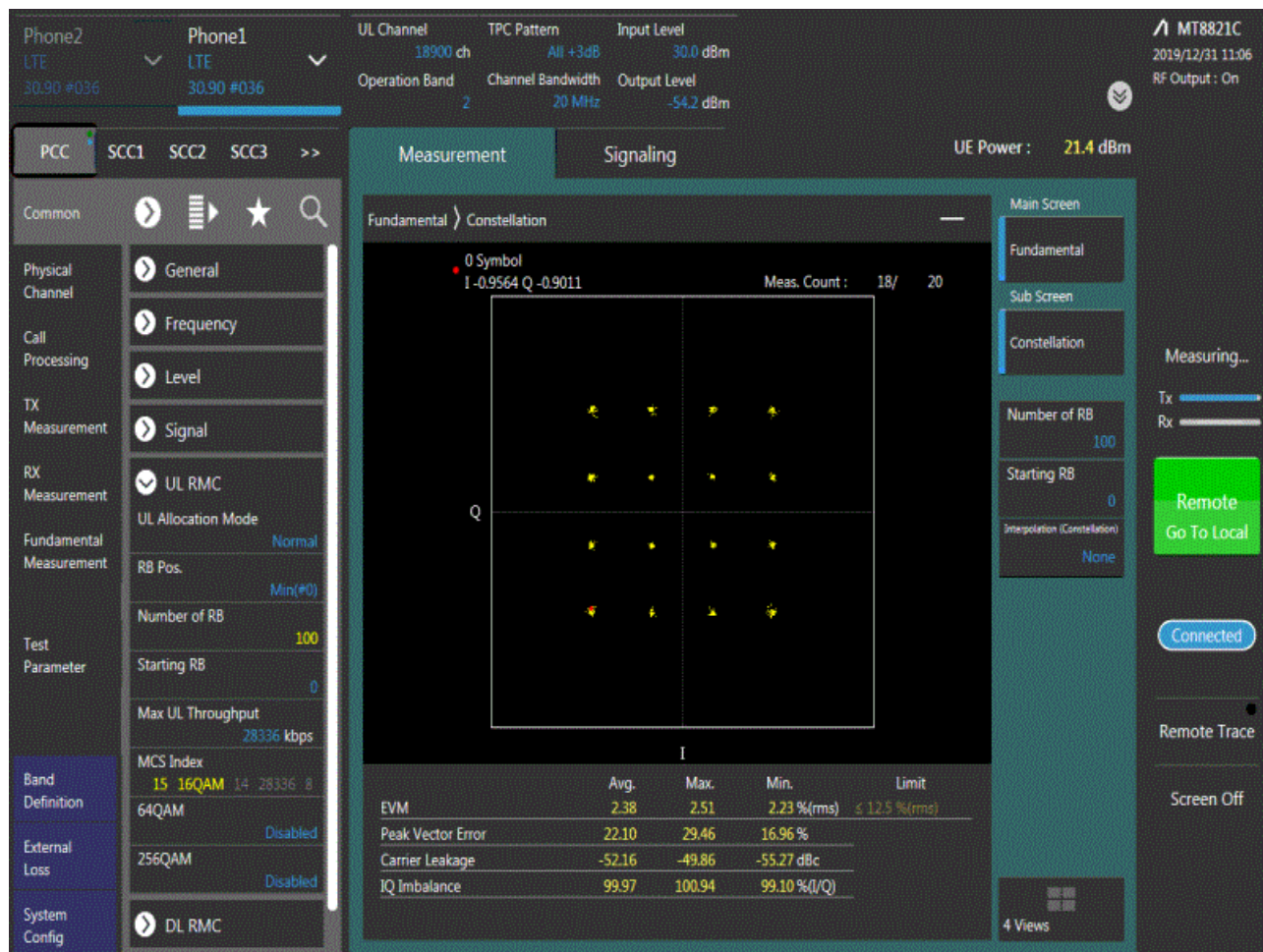
#### 3.1. Test Mode = LTE /TM1 20MHz

##### 3.1.1. Test Channel = MCH



## 3.2. Test Mode = LTE /TM2 20MHz

### 3.2.1. Test Channel = MCH





## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|-------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band2 | 1.4MHz    | QPSK       | 18607   | 6RB#0            | 1.091                    | 1.296                | PASS    |
| Band2 | 1.4MHz    | QPSK       | 18900   | 6RB#0            | 1.088                    | 1.293                | PASS    |
| Band2 | 1.4MHz    | QPSK       | 19193   | 6RB#0            | 1.100                    | 1.377                | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18607   | 6RB#0            | 1.091                    | 1.296                | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 18900   | 6RB#0            | 1.091                    | 1.287                | PASS    |
| Band2 | 1.4MHz    | 16QAM      | 19193   | 6RB#0            | 1.097                    | 1.347                | PASS    |
| Band2 | 3MHz      | QPSK       | 18615   | 15RB#0           | 2.691                    | 2.898                | PASS    |
| Band2 | 3MHz      | QPSK       | 18900   | 15RB#0           | 2.691                    | 2.898                | PASS    |
| Band2 | 3MHz      | QPSK       | 19185   | 15RB#0           | 2.697                    | 2.922                | PASS    |
| Band2 | 3MHz      | 16QAM      | 18615   | 15RB#0           | 2.679                    | 2.856                | PASS    |
| Band2 | 3MHz      | 16QAM      | 18900   | 15RB#0           | 2.685                    | 2.886                | PASS    |
| Band2 | 3MHz      | 16QAM      | 19185   | 15RB#0           | 2.679                    | 2.862                | PASS    |
| Band2 | 5MHz      | QPSK       | 18625   | 25RB#0           | 4.476                    | 4.760                | PASS    |
| Band2 | 5MHz      | QPSK       | 18900   | 25RB#0           | 4.476                    | 4.760                | PASS    |
| Band2 | 5MHz      | QPSK       | 19175   | 25RB#0           | 4.476                    | 4.750                | PASS    |
| Band2 | 5MHz      | 16QAM      | 18625   | 25RB#0           | 4.476                    | 4.760                | PASS    |
| Band2 | 5MHz      | 16QAM      | 18900   | 25RB#0           | 4.476                    | 4.740                | PASS    |
| Band2 | 5MHz      | 16QAM      | 19175   | 25RB#0           | 4.486                    | 4.730                | PASS    |
| Band2 | 10MHz     | QPSK       | 18650   | 50RB#0           | 8.951                    | 9.460                | PASS    |
| Band2 | 10MHz     | QPSK       | 18900   | 50RB#0           | 8.971                    | 9.460                | PASS    |
| Band2 | 10MHz     | QPSK       | 19150   | 50RB#0           | 8.971                    | 9.560                | PASS    |
| Band2 | 10MHz     | 16QAM      | 18650   | 50RB#0           | 8.971                    | 9.440                | PASS    |
| Band2 | 10MHz     | 16QAM      | 18900   | 50RB#0           | 8.991                    | 9.460                | PASS    |
| Band2 | 10MHz     | 16QAM      | 19150   | 50RB#0           | 8.971                    | 9.440                | PASS    |
| Band2 | 15MHz     | QPSK       | 18675   | 75RB#0           | 13.636                   | 14.820               | PASS    |
| Band2 | 15MHz     | QPSK       | 18900   | 75RB#0           | 13.636                   | 14.550               | PASS    |
| Band2 | 15MHz     | QPSK       | 19125   | 75RB#0           | 13.636                   | 14.820               | PASS    |
| Band2 | 15MHz     | 16QAM      | 18675   | 75RB#0           | 13.606                   | 14.520               | PASS    |
| Band2 | 15MHz     | 16QAM      | 18900   | 75RB#0           | 13.606                   | 14.460               | PASS    |
| Band2 | 15MHz     | 16QAM      | 19125   | 75RB#0           | 13.636                   | 14.880               | PASS    |
| Band2 | 20MHz     | QPSK       | 18700   | 100RB#0          | 18.062                   | 19.160               | PASS    |



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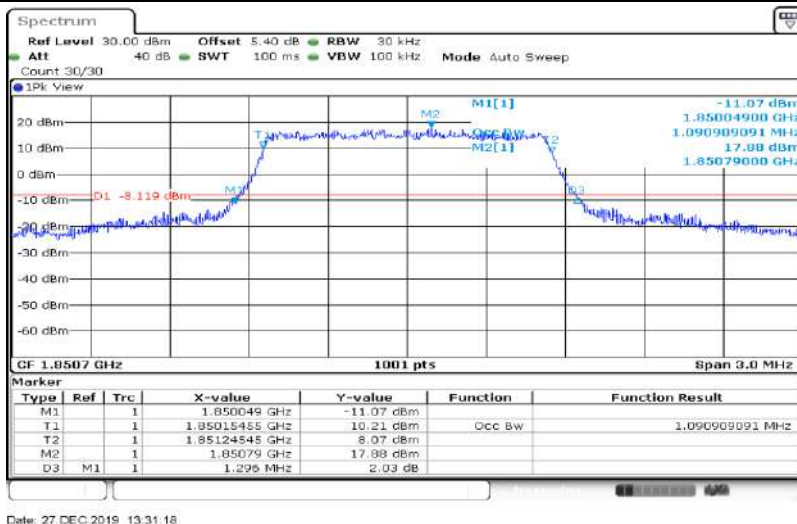
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|       |       |       |       |         |        |        |      |
|-------|-------|-------|-------|---------|--------|--------|------|
| Band2 | 20MHz | QPSK  | 18900 | 100RB#0 | 18.102 | 19.040 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 100RB#0 | 17.902 | 18.800 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 100RB#0 | 18.062 | 19.120 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 100RB#0 | 18.022 | 19.040 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 100RB#0 | 18.102 | 19.240 | PASS |

## 4.2. Test Plots

Band2-1.4MHz-QPSK-18607-6RB#0-1.091



Date: 27 DEC.2019 13:31:18

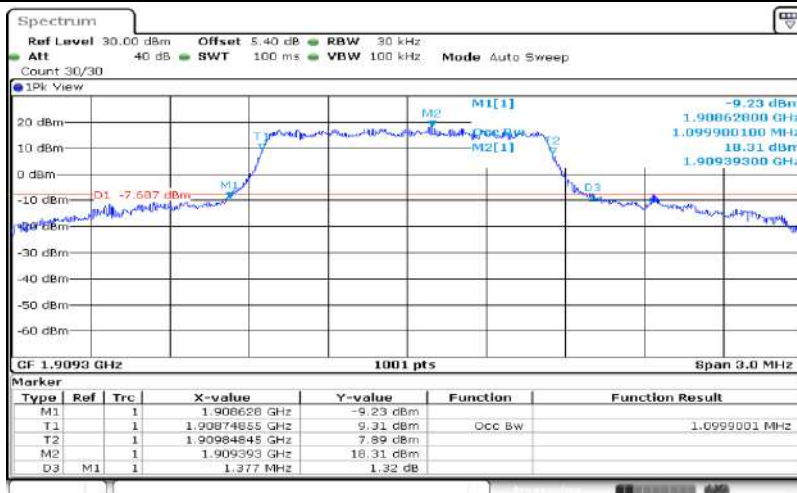
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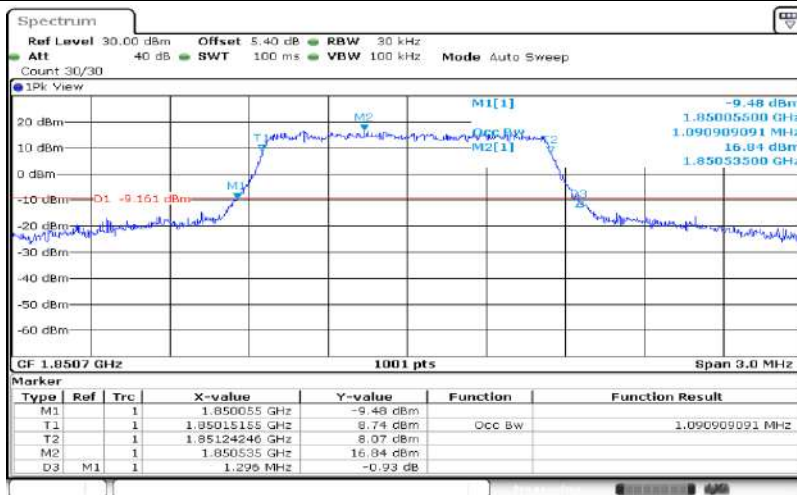
Band2-1.4MHz-QPSK-19193-6RB#0-1.1





Date: 27 DEC.2019 13:32:05

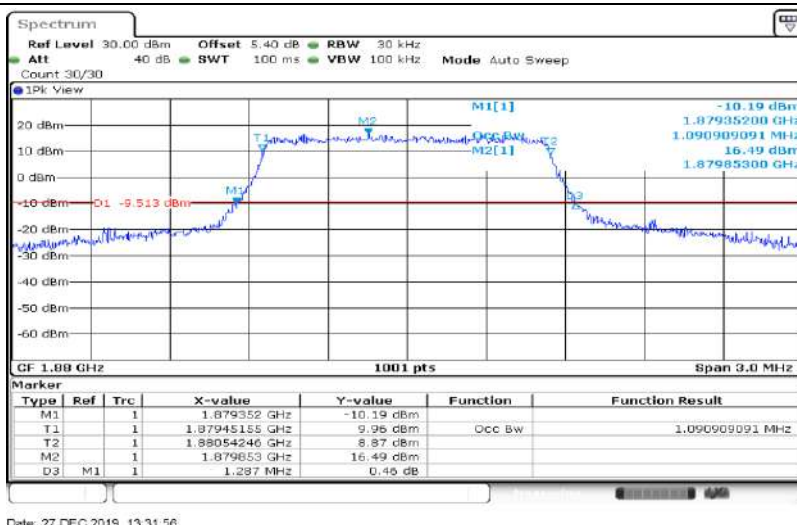
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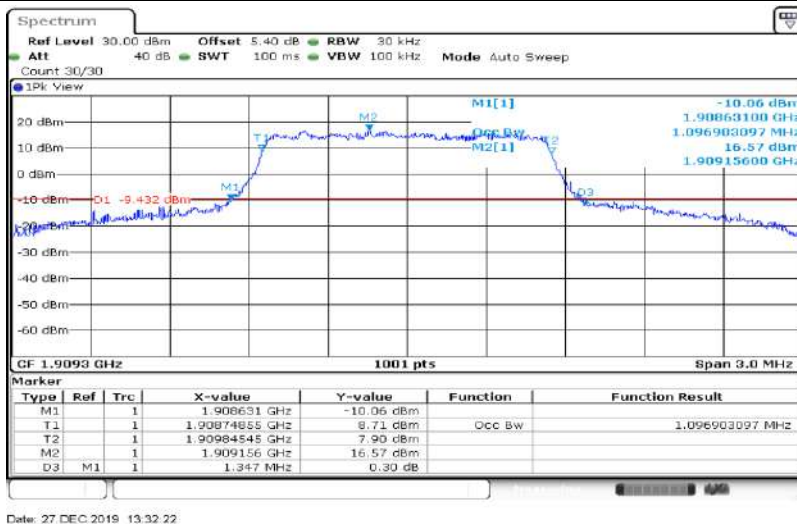
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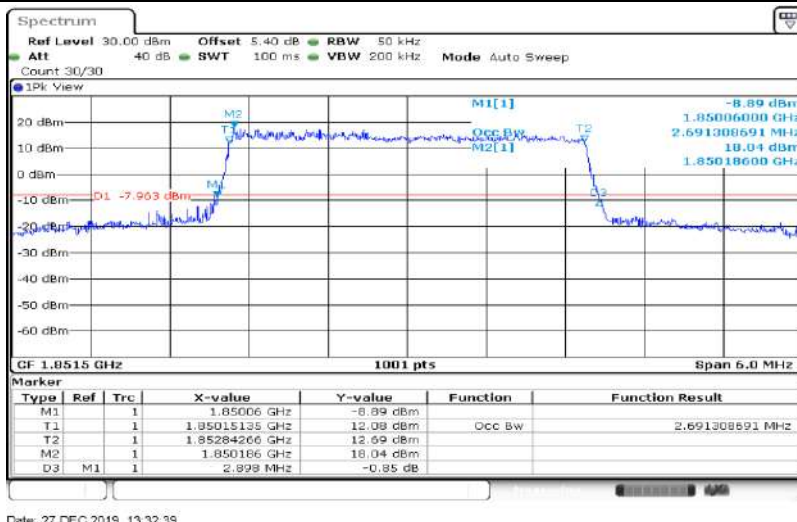


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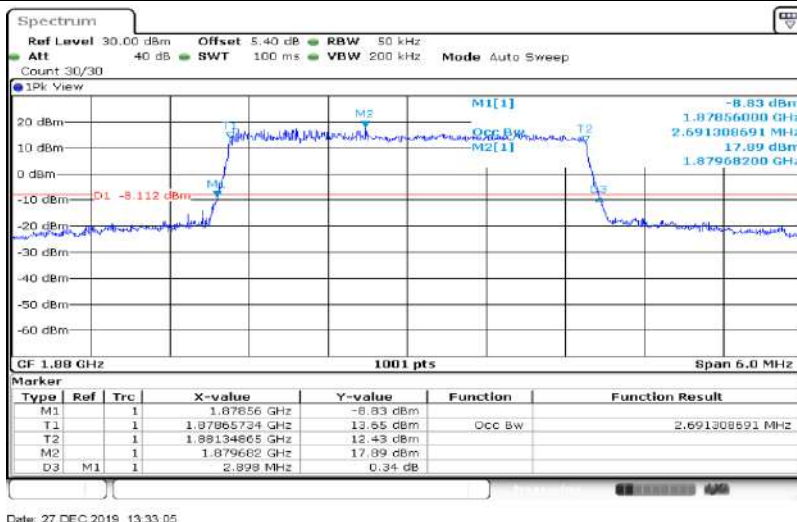


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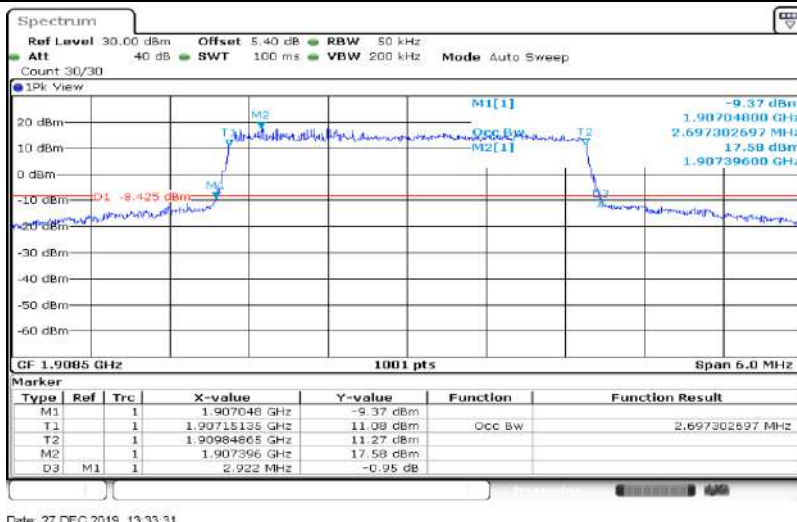


## Band2-3MHz-QPSK-18900-15RB#0-2.691

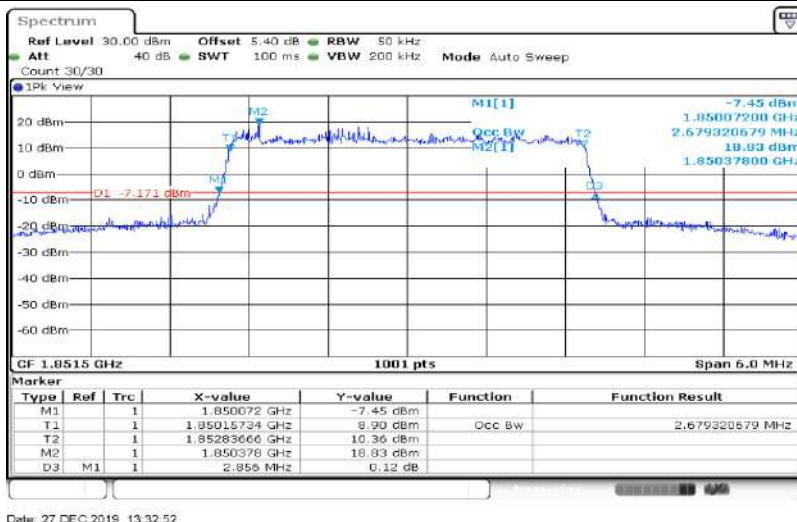


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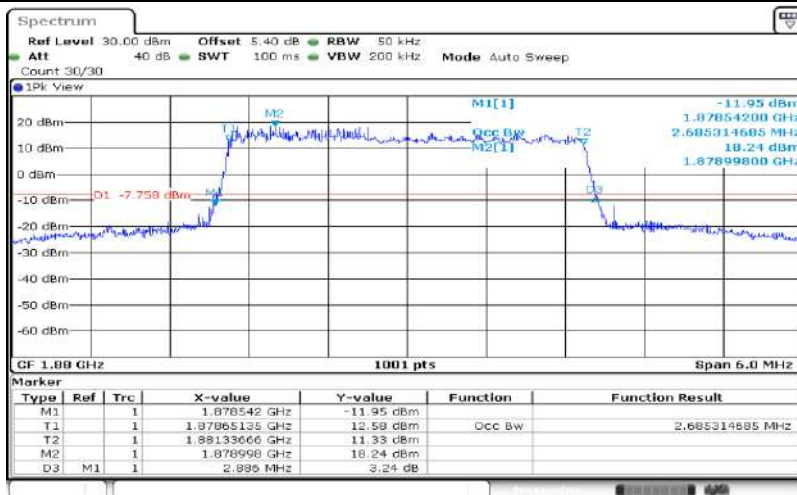


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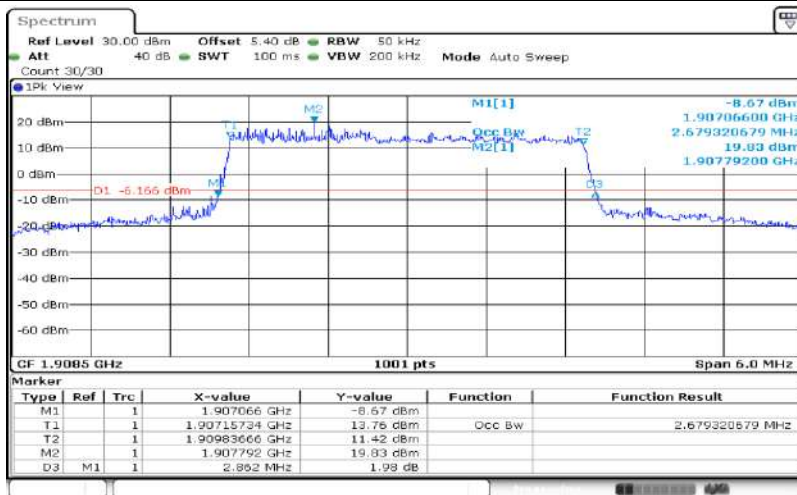
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Date: 27 DEC.2019 13.33.18

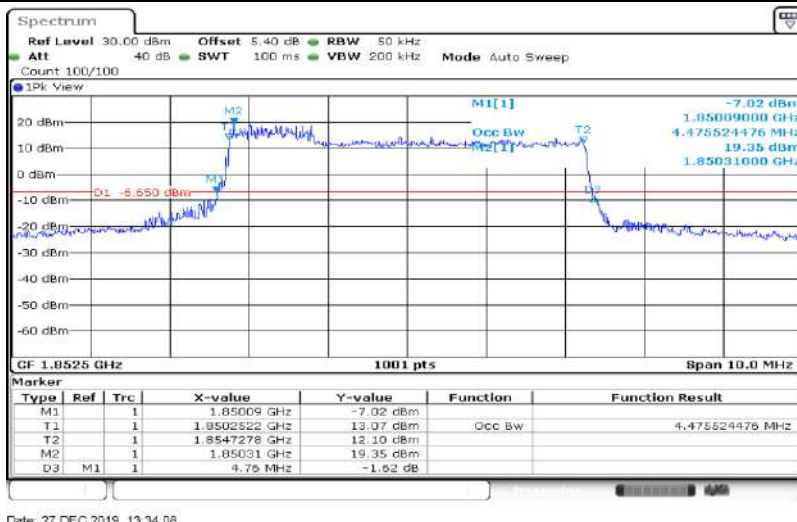
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Date: 27 DEC.2019 13.33.43

## Band2-5MHz-QPSK-18625-25RB#0-4.476





## Band2-5MHz-QPSK-18900-25RB#0-4.476

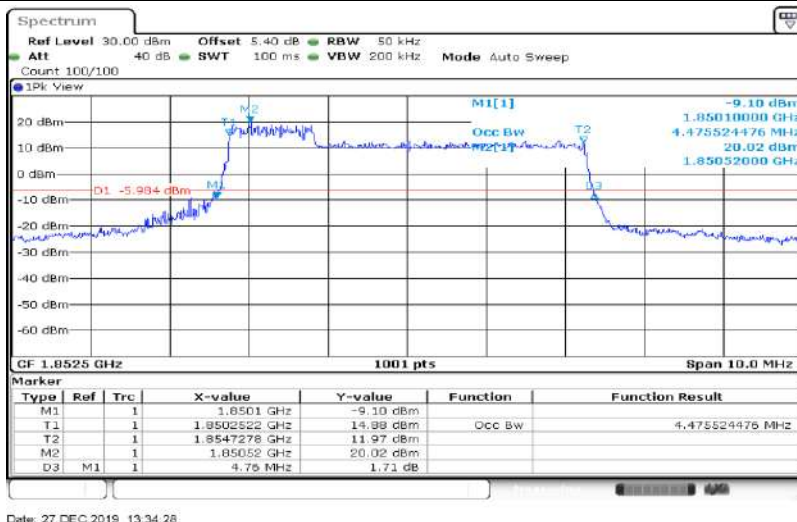


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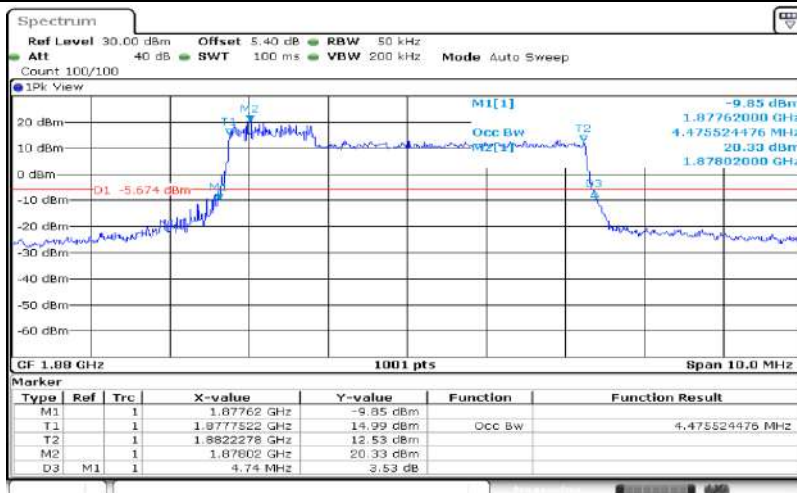


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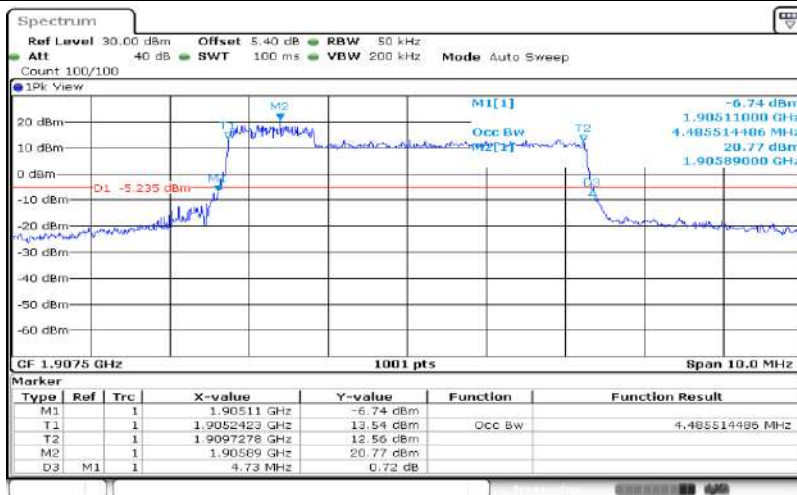
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Date: 27 DEC 2019 13:35:07

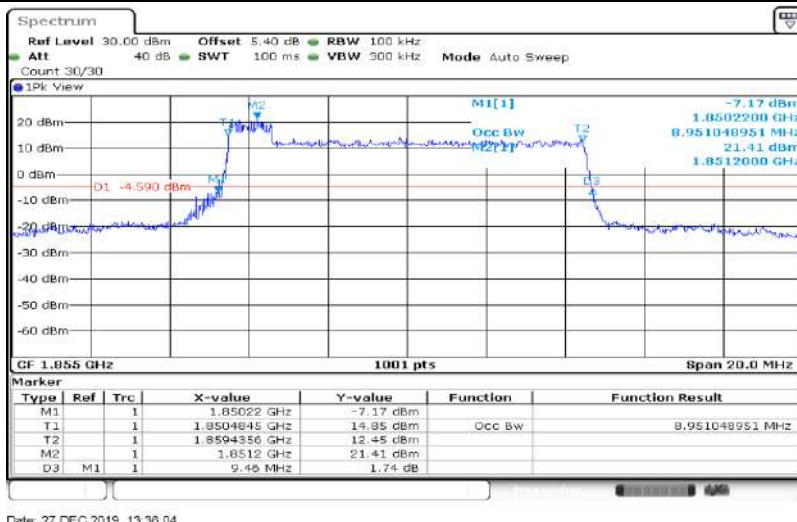
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Date: 27 DEC 2019 13:35:47

## Band2-10MHz-QPSK-18650-50RB#0-8.951





## Band2-10MHz-QPSK-18900-50RB#0-8.971

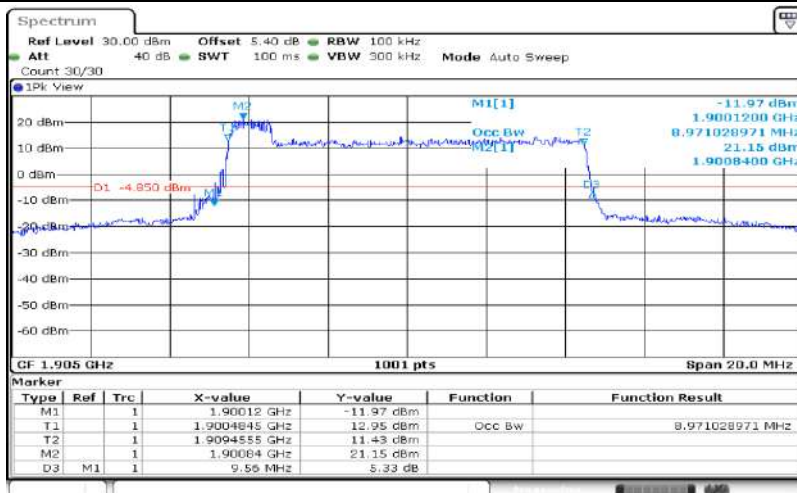


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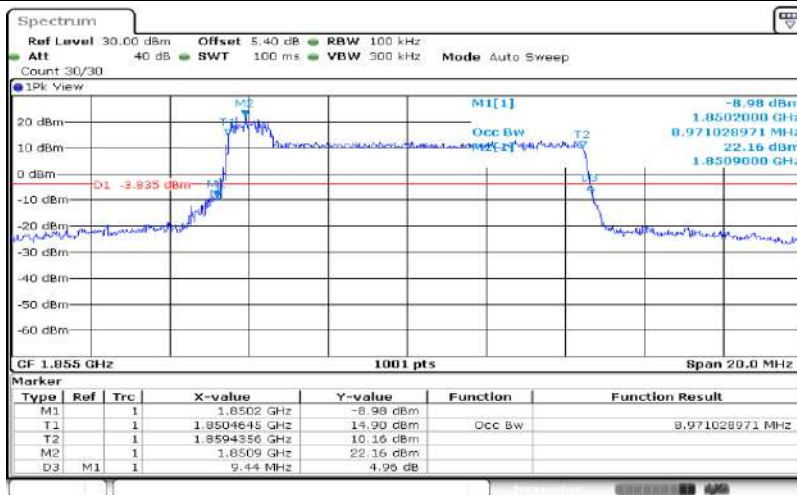
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## Band2-10MHz-16QAM-18650-50RB#0-8.971



Date: 27 DEC.2019 13:38:17

## Band2-10MHz-16QAM-18900-50RB#0-8.991



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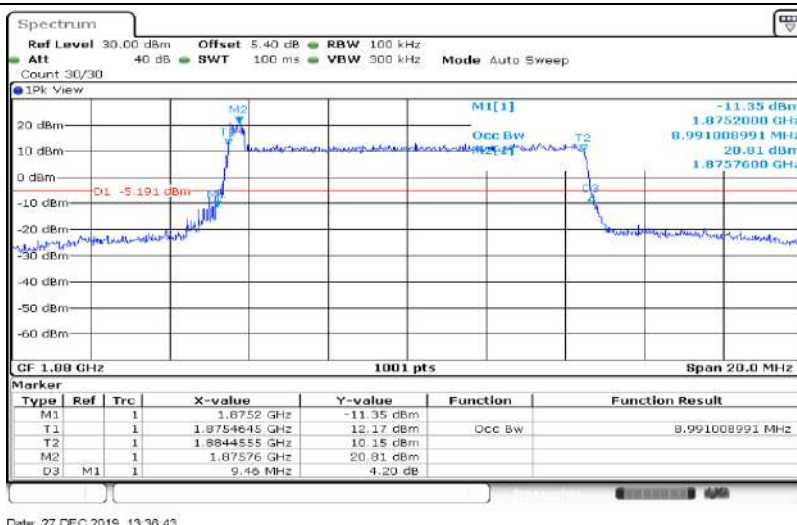
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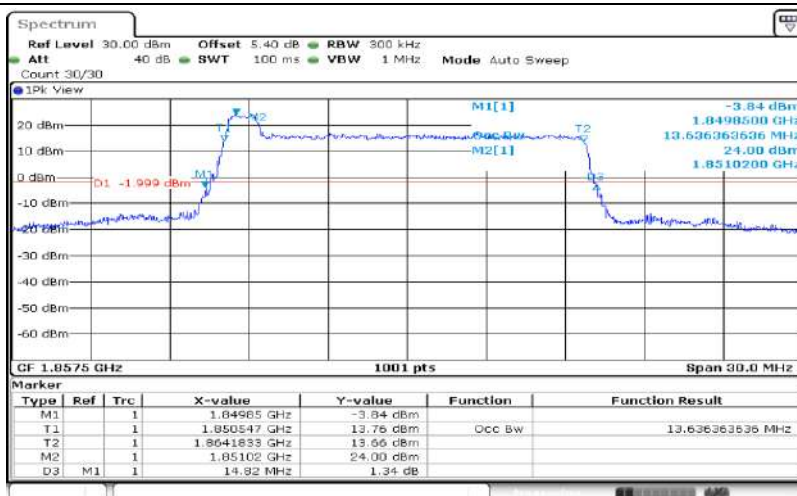


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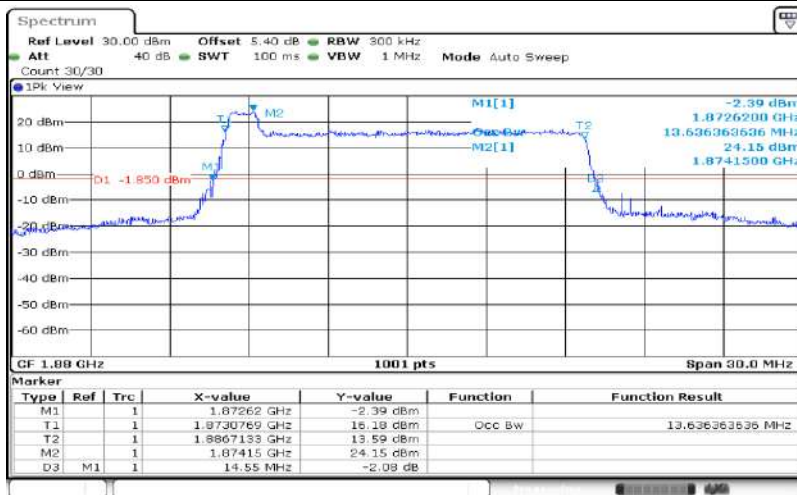
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Date: 27 DEC.2019 13:37:26

## Band2-15MHz-QPSK-18900-75RB#0-13.636



Date: 27 DEC.2019 13:37:52

## Band2-15MHz-QPSK-19125-75RB#0-13.636



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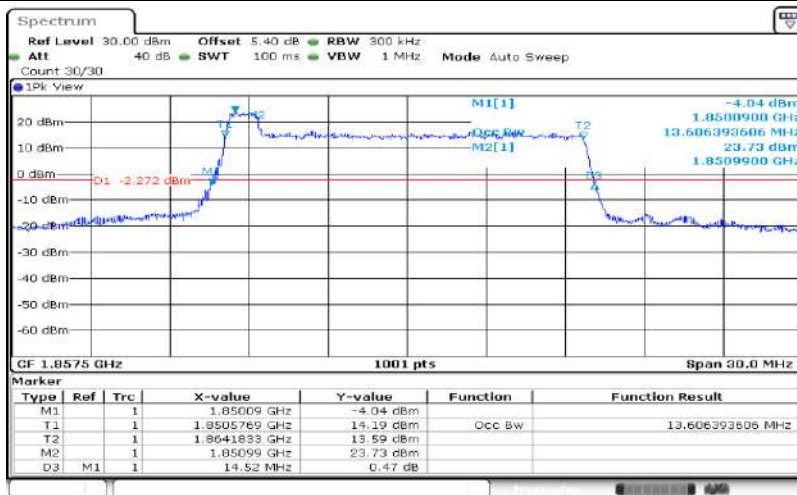
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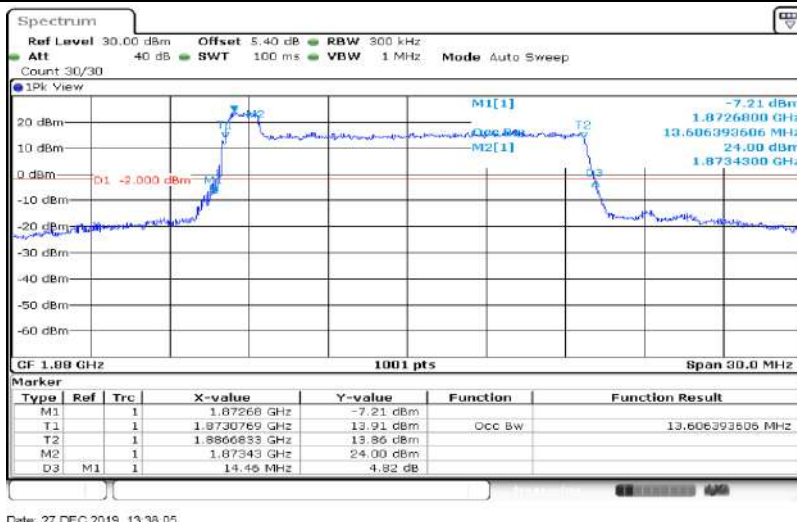
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Date: 27 DEC.2019 13:37:39

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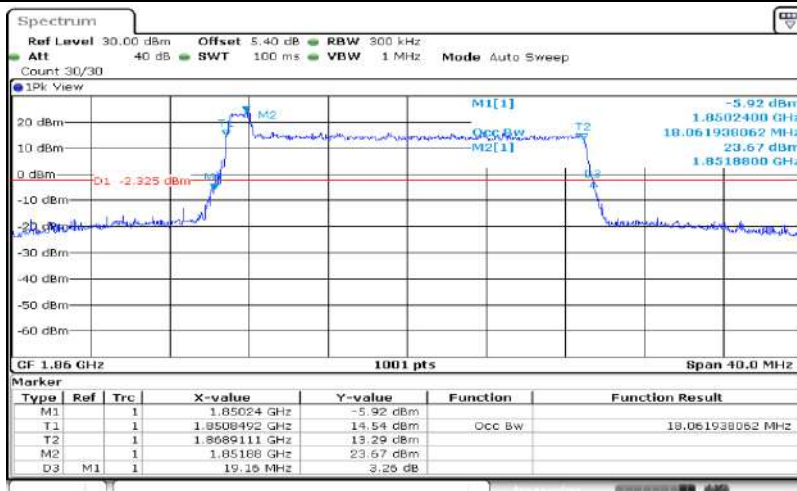


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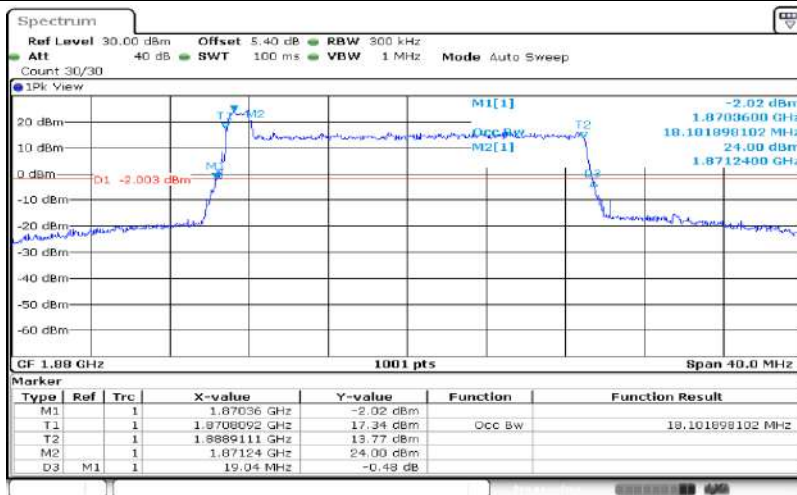
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Date: 27 DEC 2019 13:38:48

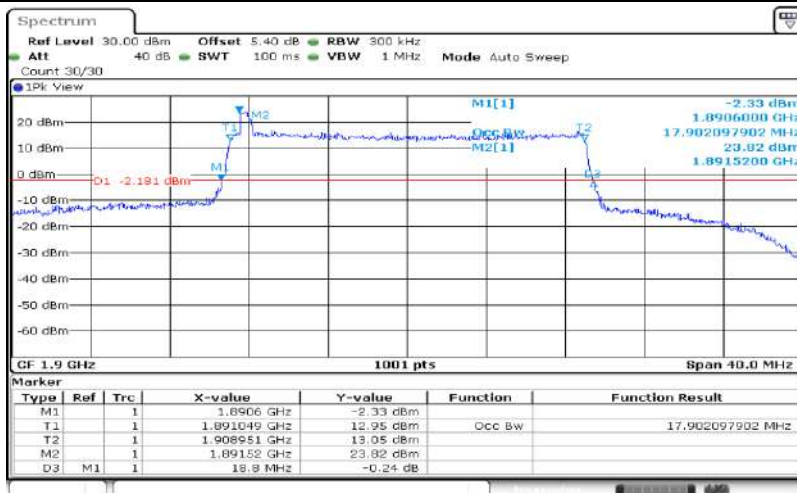
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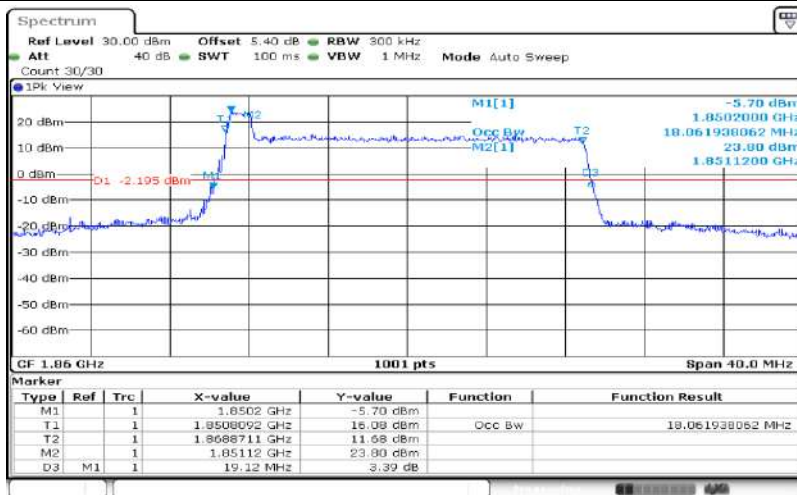
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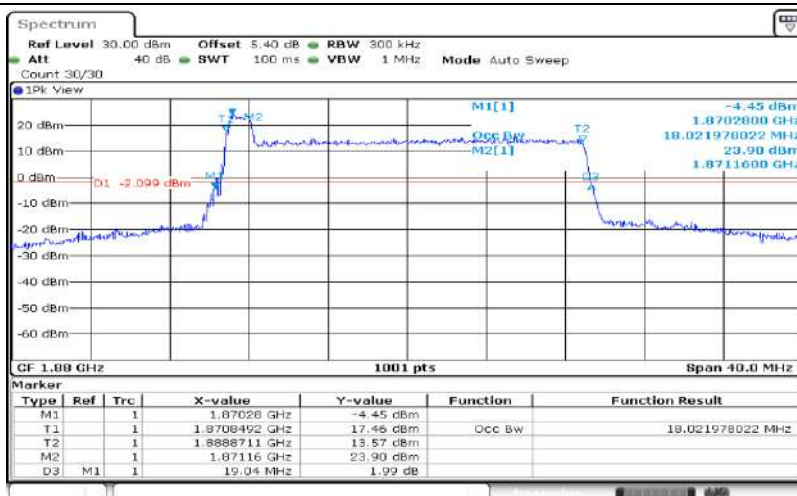
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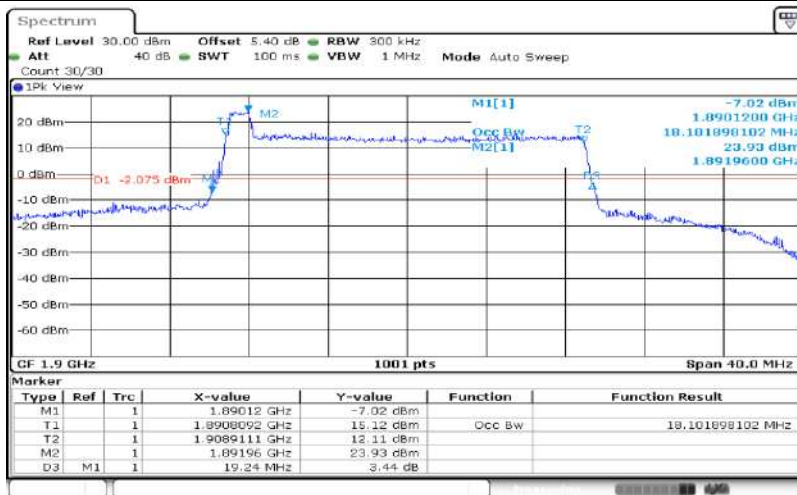
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Date: 27 DEC.2019 13:39:26

## Band2-20MHz-16QAM-19100-100RB#0-18.102



Date: 27 DEC.2019 13:39:52



## 5. Band Edge Compliance

### 5.1. Test Plots

Band2-1.4MHz-QPSK-18607-1RB#0

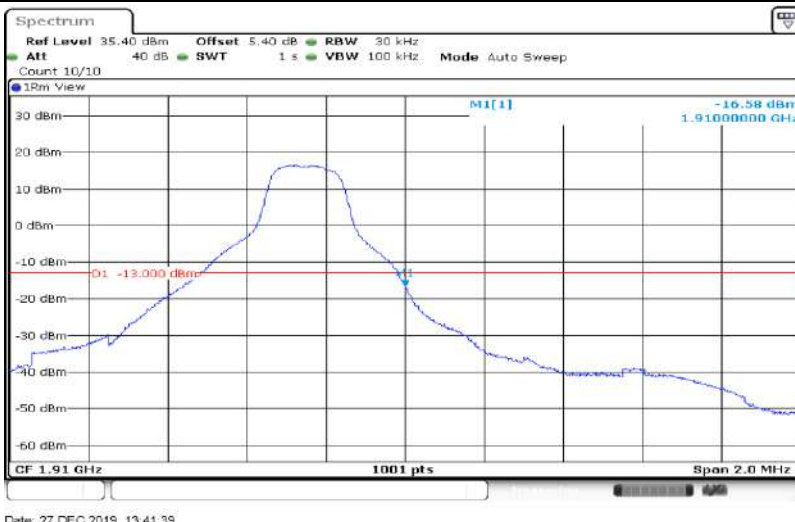


Band2-1.4MHz-QPSK-18607-6RB#0



Band2-1.4MHz-QPSK-19193-1RB#5





Band2-1.4MHz-QPSK-19193-6RB#0



Band2-1.4MHz-16QAM-18607-1RB#0





Band2-1.4MHz-16QAM-18607-6RB#0



Band2-1.4MHz-16QAM-19193-1RB#5





Band2-1.4MHz-16QAM-19193-6RB#0



Band2-3MHz-QPSK-18615-1RB#0



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Band2-3MHz-QPSK-18615-15RB#0



Band2-3MHz-QPSK-19185-1RB#14





Band2-3MHz-QPSK-19185-15RB#0



Band2-3MHz-16QAM-18615-1RB#0





Band2-3MHz-16QAM-18615-15RB#0



Band2-3MHz-16QAM-19185-1RB#14



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Band2-3MHz-16QAM-19185-15RB#0



Band2-5MHz-QPSK-18625-1RB#0



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Band2-5MHz-QPSK-18625-25RB#0



Band2-5MHz-QPSK-19175-1RB#24



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Band2-5MHz-16QAM-18625-1RB#0



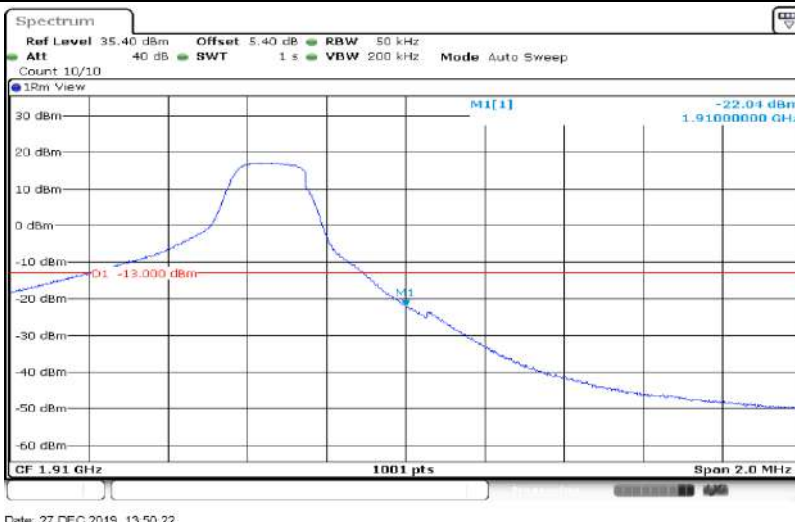


Band2-5MHz-16QAM-18625-25RB#0



Band2-5MHz-16QAM-19175-1RB#24





Band2-5MHz-16QAM-19175-25RB#0



Band2-10MHz-QPSK-18650-1RB#0





Band2-10MHz-QPSK-18650-50RB#0



Band2-10MHz-QPSK-19150-1RB#49



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Band2-10MHz-QPSK-19150-50RB#0



Band2-10MHz-16QAM-18650-1RB#0



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Band2-10MHz-16QAM-18650-50RB#0



Band2-10MHz-16QAM-19150-1RB#49



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Band2-15MHz-QPSK-18675-1RB#0



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Band2-15MHz-QPSK-18675-75RB#0



Band2-15MHz-QPSK-19125-1RB#74





Band2-15MHz-QPSK-19125-75RB#0



Band2-15MHz-16QAM-18675-1RB#0



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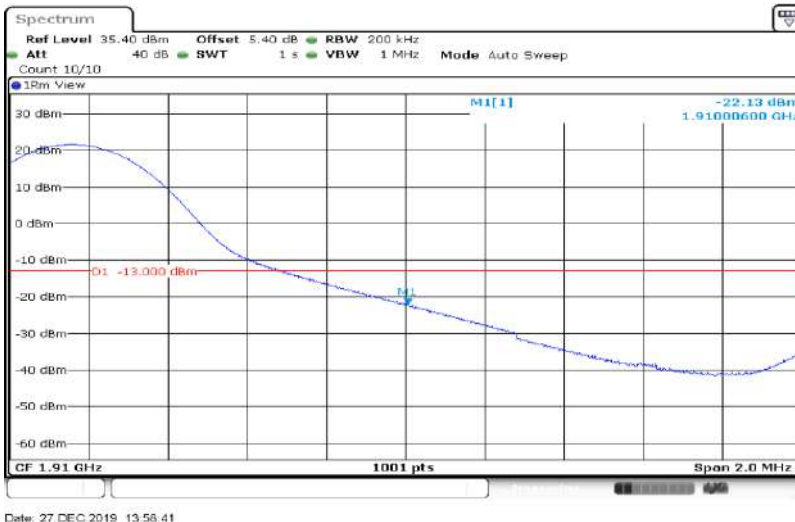


Band2-15MHz-16QAM-18675-75RB#0

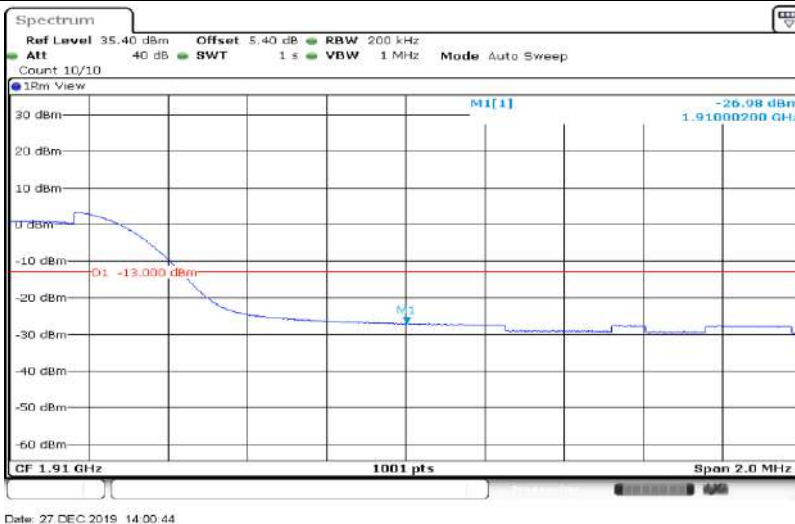


Band2-15MHz-16QAM-19125-1RB#74





Band2-15MHz-16QAM-19125-75RB#0



Band2-20MHz-QPSK-18700-1RB#0





Band2-20MHz-QPSK-18700-100RB#0



Band2-20MHz-QPSK-19100-1RB#99



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Band2-20MHz-QPSK-19100-100RB#0



Band2-20MHz-16QAM-18700-1RB#0





Band2-20MHz-16QAM-18700-100RB#0



Band2-20MHz-16QAM-19100-1RB#99



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Band2-20MHz-16QAM-19100-100RB#0



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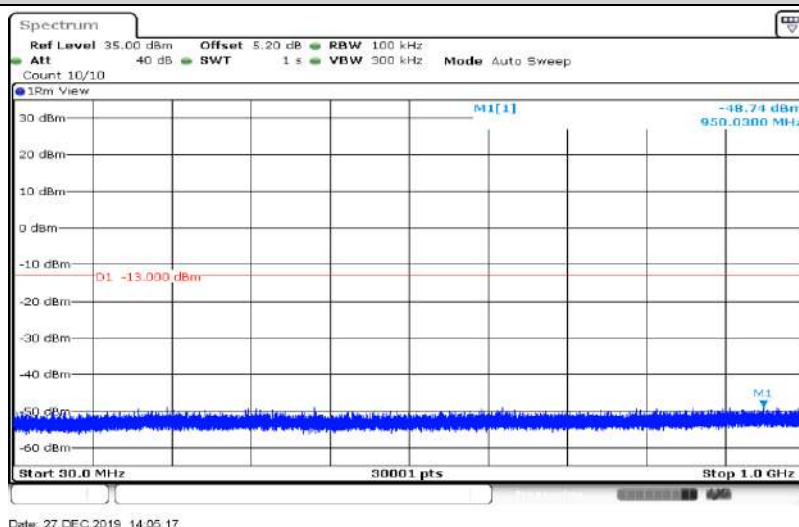
## 6. Spurious Emission at Antenna Terminal

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 =  $k * (\text{Span} / RBW)$ " with  $k$  between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

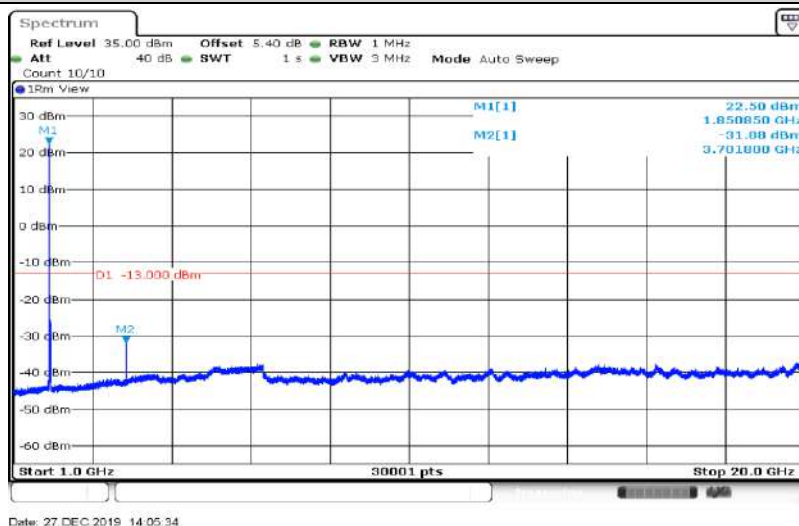
Remark2: only the worst case data displayed in this report.

### 6.1. Test Plots

Band2-20MHz-QPSK-18700-1RB#0-Range1:30~1000MHz

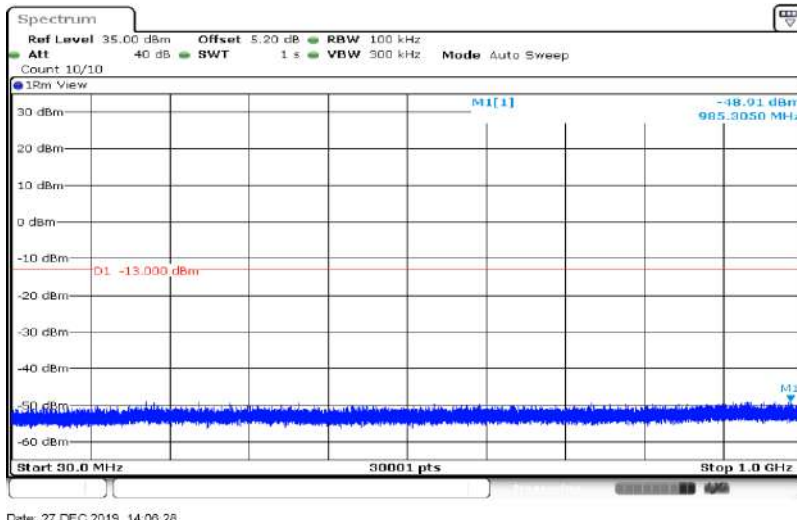


Band2-20MHz-QPSK-18700-1RB#0-Range2:1000~20000MHz

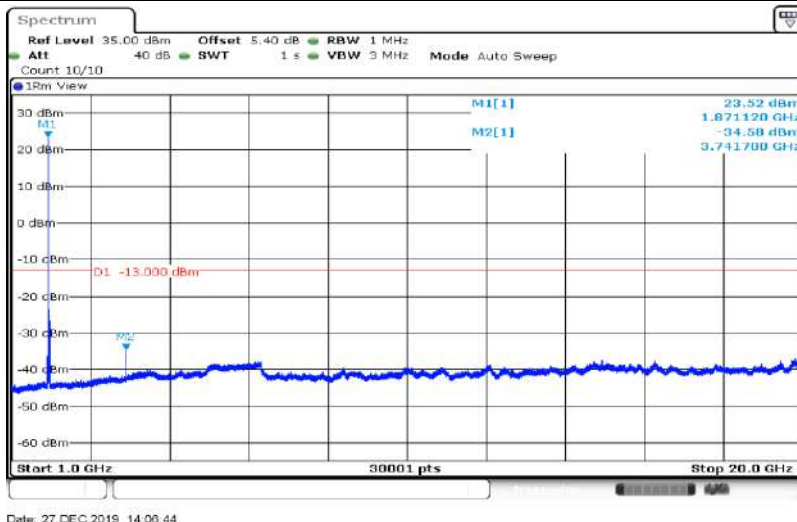


Band2-20MHz-QPSK-18900-1RB#0-Range1:30~1000MHz





Band2-20MHz-QPSK-18900-1RB#0-Range2:1000~20000MHz

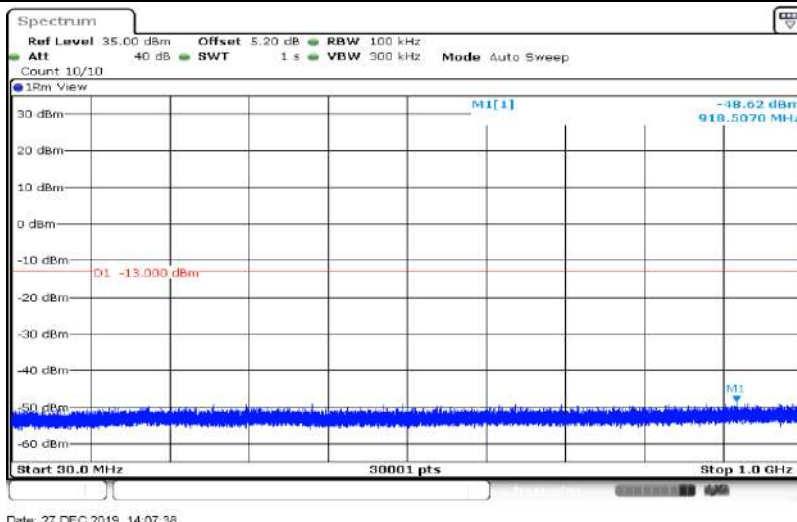


Band2-20MHz-QPSK-19100-1RB#0-Range1:30~1000MHz

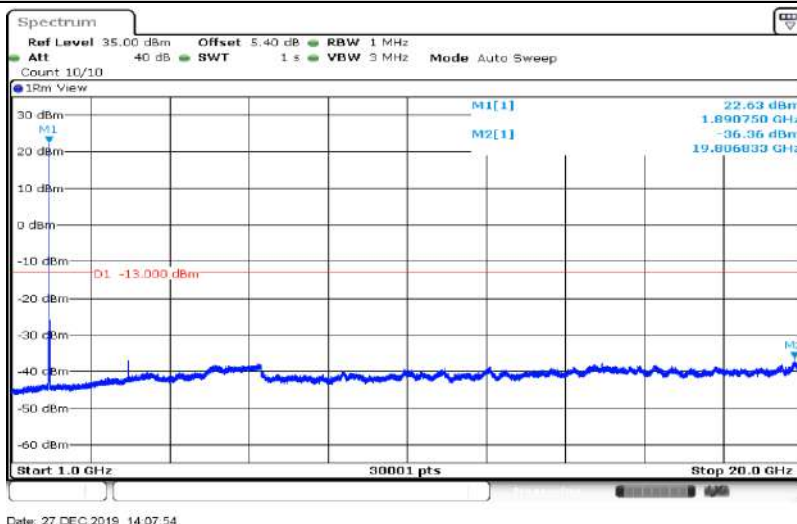


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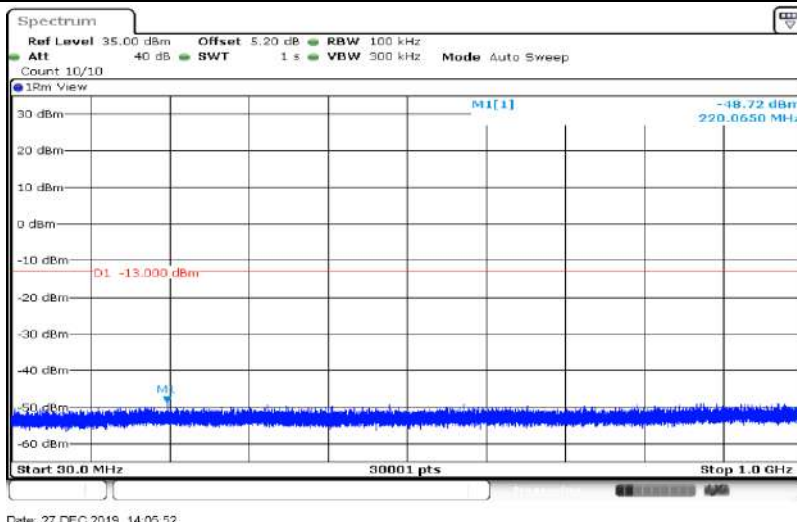


Band2-20MHz-QPSK-19100-1RB#0-Range2:1000~20000MHz

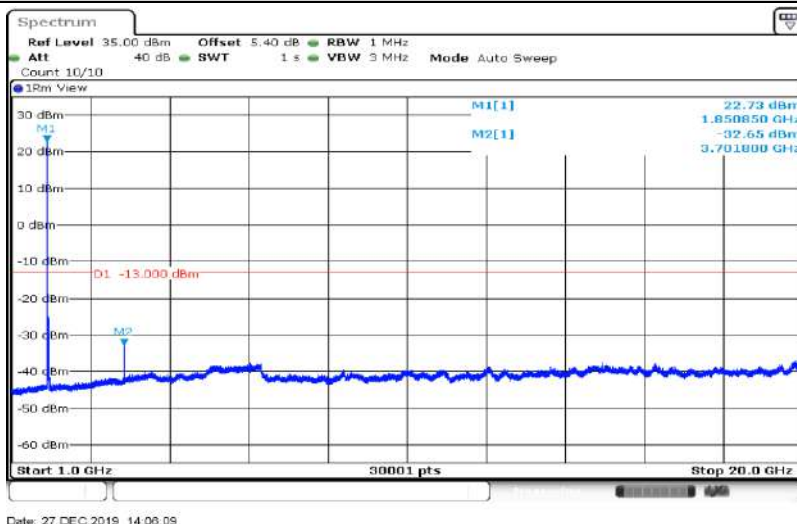


Band2-20MHz-16QAM-18700-1RB#0-Range1:30~1000MHz



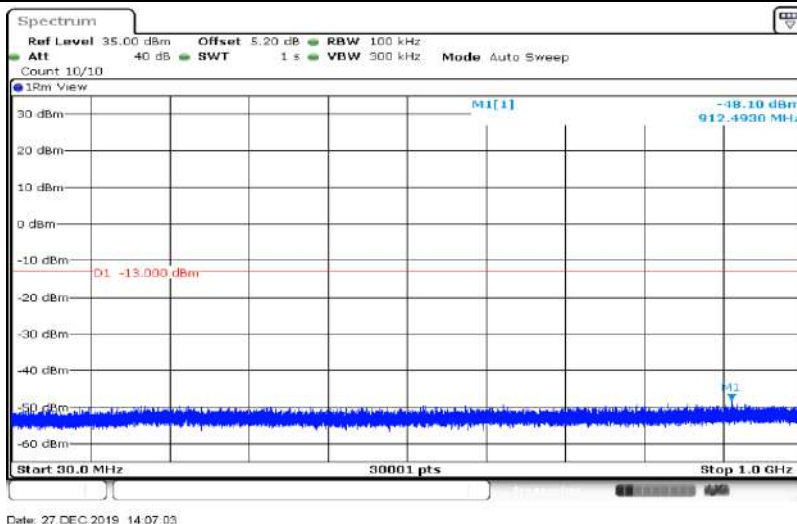


Band2-20MHz-16QAM-18700-1RB#0-Range2:1000~20000MHz

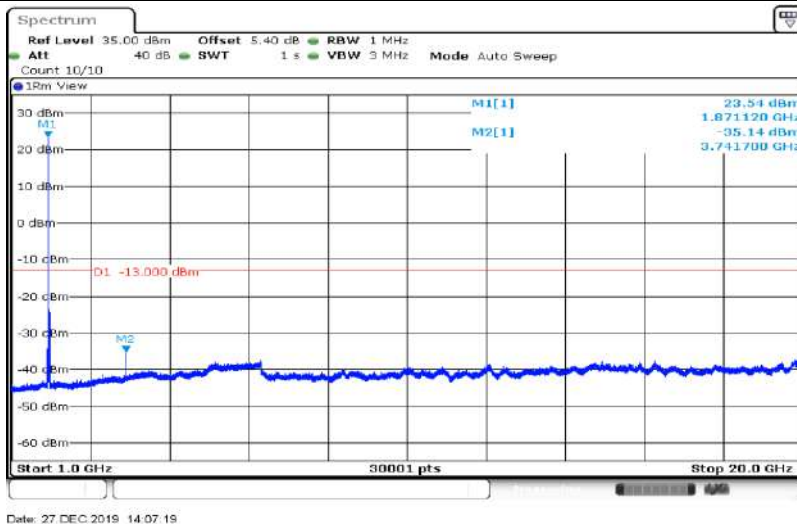


Band2-20MHz-16QAM-18900-1RB#0-Range1:30~1000MHz



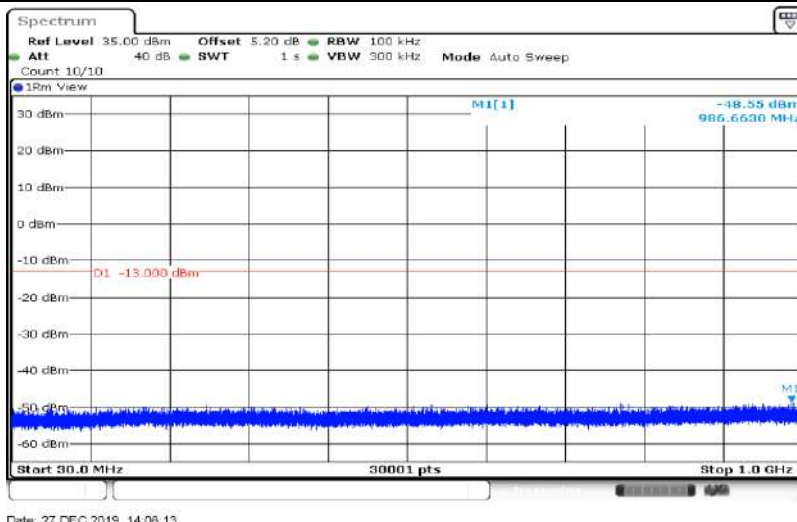


Band2-20MHz-16QAM-18900-1RB#0-Range2:1000~20000MHz

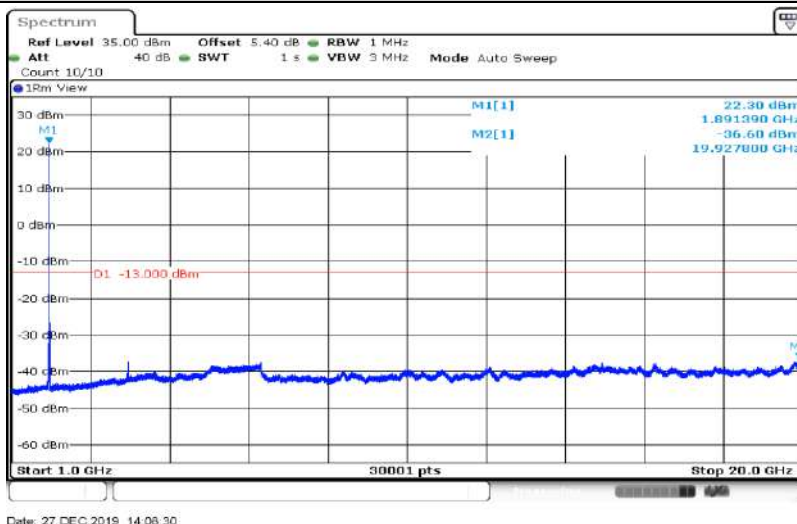


Band2-20MHz-16QAM-19100-1RB#0-Range1:30~1000MHz





Band2-20MHz-16QAM-19100-1RB#0-Range2:1000~20000MHz



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## 7. Field Strength of Spurious Radiation

The 5029E data:

### 7.1. Test Mode =LTE/TM1

#### 7.1.1. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 109.8835        | -64.64      | -13.00           | 51.64       | Vertical     |
| 3702.0234       | -44.95      | -13.00           | 31.95       | Vertical     |
| 5553.5851       | -54.96      | -13.00           | 41.96       | Vertical     |
| 7404.1468       | -41.33      | -13.00           | 28.33       | Vertical     |
| 9255.2085       | -36.42      | -13.00           | 23.42       | Vertical     |
| 17986.4996      | -39.75      | -13.00           | 26.75       | Vertical     |
| 43.3382         | -64.62      | -13.00           | 51.62       | Horizontal   |
| 3702.0234       | -42.06      | -13.00           | 29.06       | Horizontal   |
| 5553.0851       | -49.95      | -13.00           | 36.95       | Horizontal   |
| 7404.1468       | -40.71      | -13.00           | 27.71       | Horizontal   |
| 9255.7085       | -35.82      | -13.00           | 22.82       | Horizontal   |
| 11106.2702      | -41.48      | -13.00           | 28.48       | Horizontal   |

#### 7.1.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 114.1032        | -64.53      | -13.00           | 51.53       | Vertical     |
| 3742.0247       | -45.06      | -13.00           | 32.06       | Vertical     |
| 5613.0871       | -51.21      | -13.00           | 38.21       | Vertical     |
| 7484.6495       | -38.87      | -13.00           | 25.87       | Vertical     |
| 9355.7119       | -36.99      | -13.00           | 23.99       | Vertical     |
| 17985.9995      | -40.56      | -13.00           | 27.56       | Vertical     |
| 42.5621         | -63.53      | -13.00           | 50.53       | Horizontal   |
| 3742.0247       | -41.83      | -13.00           | 28.83       | Horizontal   |
| 5613.5871       | -48.61      | -13.00           | 35.61       | Horizontal   |
| 7484.1495       | -37.95      | -13.00           | 24.95       | Horizontal   |
| 9355.7119       | -32.70      | -13.00           | 19.70       | Horizontal   |
| 11226.7742      | -40.70      | -13.00           | 27.70       | Horizontal   |



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### 7.1.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 108.8164        | -65.11      | -13.00           | 52.11       | Vertical     |
| 3782.0261       | -47.43      | -13.00           | 34.43       | Vertical     |
| 5673.5891       | -51.20      | -13.00           | 38.20       | Vertical     |
| 7564.6522       | -38.43      | -13.00           | 25.43       | Vertical     |
| 9455.2152       | -37.18      | -13.00           | 24.18       | Vertical     |
| 17996.4999      | -41.22      | -13.00           | 28.22       | Vertical     |
| 41.0101         | -64.23      | -13.00           | 51.23       | Horizontal   |
| 3782.5261       | -44.38      | -13.00           | 31.38       | Horizontal   |
| 5673.0891       | -46.53      | -13.00           | 33.53       | Horizontal   |
| 7564.1521       | -37.79      | -13.00           | 24.79       | Horizontal   |
| 9455.2152       | -32.92      | -13.00           | 19.92       | Horizontal   |
| 11346.7782      | -43.66      | -13.00           | 30.66       | Horizontal   |



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The 5029F data:

## 7.2. Test Mode =LTE/TM1

### 7.2.1.Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 110.0775        | -65.64      | -13.00           | 52.64       | Vertical     |
| 605.5298        | -63.63      | -13.00           | 50.63       | Vertical     |
| 3702.0234       | -44.36      | -13.00           | 31.36       | Vertical     |
| 5553.0851       | -53.30      | -13.00           | 40.30       | Vertical     |
| 7404.6468       | -39.73      | -13.00           | 26.73       | Vertical     |
| 9255.7085       | -32.40      | -13.00           | 19.40       | Vertical     |
| 42.7076         | -64.11      | -13.00           | 51.11       | Horizontal   |
| 3702.0234       | -39.09      | -13.00           | 26.09       | Horizontal   |
| 5553.0851       | -49.77      | -13.00           | 36.77       | Horizontal   |
| 7404.1468       | -40.59      | -13.00           | 27.59       | Horizontal   |
| 9255.2085       | -35.63      | -13.00           | 22.63       | Horizontal   |
| 11106.2702      | -44.61      | -13.00           | 31.61       | Horizontal   |

### 7.2.2.Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 110.9505        | -64.57      | -13.00           | 51.57       | Vertical     |
| 380.5270        | -68.36      | -13.00           | 55.36       | Vertical     |
| 3742.0247       | -45.60      | -13.00           | 32.60       | Vertical     |
| 5613.0871       | -54.72      | -13.00           | 41.72       | Vertical     |
| 7484.1495       | -36.82      | -13.00           | 23.82       | Vertical     |
| 9355.2118       | -30.96      | -13.00           | 17.96       | Vertical     |
| 42.8531         | -63.79      | -13.00           | 50.79       | Horizontal   |
| 3742.0247       | -40.26      | -13.00           | 27.26       | Horizontal   |
| 5613.0871       | -48.31      | -13.00           | 35.31       | Horizontal   |
| 7484.1495       | -37.51      | -13.00           | 24.51       | Horizontal   |
| 9355.2118       | -31.80      | -13.00           | 18.80       | Horizontal   |
| 11226.7742      | -46.09      | -13.00           | 33.09       | Horizontal   |



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### 7.2.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 107.0219        | -65.70      | -13.00           | 52.70       | Vertical     |
| 3782.0261       | -46.41      | -13.00           | 33.41       | Vertical     |
| 5673.0891       | -50.22      | -13.00           | 37.22       | Vertical     |
| 7564.6522       | -38.37      | -13.00           | 25.37       | Vertical     |
| 9455.7152       | -34.46      | -13.00           | 21.46       | Vertical     |
| 17995.9999      | -39.46      | -13.00           | 26.46       | Vertical     |
| 40.6705         | -64.62      | -13.00           | 51.62       | Horizontal   |
| 3782.0261       | -38.94      | -13.00           | 25.94       | Horizontal   |
| 5673.0891       | -44.98      | -13.00           | 31.98       | Horizontal   |
| 7564.1521       | -39.95      | -13.00           | 26.95       | Horizontal   |
| 9455.7152       | -35.80      | -13.00           | 22.80       | Horizontal   |
| 11346.7782      | -44.10      | -13.00           | 31.10       | 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 |
|-------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band2 | 20MHz     | QPSK       | 18700   | 100RB#0      | VL            | NT               | 5.10           | 0.002742        | ±2.5        | PASS    |
| Band2 | 20MHz     | QPSK       | 18700   | 100RB#0      | VN            | NT               | -16.80         | -0.009032       | ±2.5        | PASS    |
| Band2 | 20MHz     | QPSK       | 18700   | 100RB#0      | VH            | NT               | -3.00          | -0.001613       | ±2.5        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | VL            | NT               | 0.90           | 0.000479        | ±2.5        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | VN            | NT               | -5.80          | -0.003085       | ±2.5        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | VH            | NT               | 1.80           | 0.000957        | ±2.5        | PASS    |
| Band2 | 20MHz     | QPSK       | 19100   | 100RB#0      | VL            | NT               | -5.50          | -0.002895       | ±2.5        | PASS    |
| Band2 | 20MHz     | QPSK       | 19100   | 100RB#0      | VN            | NT               | -9.40          | -0.004947       | ±2.5        | PASS    |
| Band2 | 20MHz     | QPSK       | 19100   | 100RB#0      | VH            | NT               | -11.00         | -0.005789       | ±2.5        | PASS    |
| Band2 | 20MHz     | 16QAM      | 18700   | 100RB#0      | VL            | NT               | -11.80         | -0.006344       | ±2.5        | PASS    |
| Band2 | 20MHz     | 16QAM      | 18700   | 100RB#0      | VN            | NT               | -7.90          | -0.004247       | ±2.5        | PASS    |
| Band2 | 20MHz     | 16QAM      | 18700   | 100RB#0      | VH            | NT               | -10.20         | -0.005484       | ±2.5        | PASS    |
| Band2 | 20MHz     | 16QAM      | 18900   | 100RB#0      | VL            | NT               | 1.10           | 0.000585        | ±2.5        | PASS    |
| Band2 | 20MHz     | 16QAM      | 18900   | 100RB#0      | VN            | NT               | -7.70          | -0.004096       | ±2.5        | PASS    |
| Band2 | 20MHz     | 16QAM      | 18900   | 100RB#0      | VH            | NT               | -9.20          | -0.004894       | ±2.5        | PASS    |
| Band2 | 20MHz     | 16QAM      | 19100   | 100RB#0      | VL            | NT               | -9.00          | -0.004737       | ±2.5        | PASS    |
| Band2 | 20MHz     | 16QAM      | 19100   | 100RB#0      | VN            | NT               | -7.70          | -0.004053       | ±2.5        | PASS    |
| Band2 | 20MHz     | 16QAM      | 19100   | 100RB#0      | VH            | NT               | -12.50         | -0.006579       | ±2.5        | PASS    |

### 8.2. 检验检测 Frequency Vs Temperature

| Band  | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
|-------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band2 | 20MHz     | QPSK       | 18700   | 100RB#0      | NV            | -30              | -21.20         | -0.011398       | ±2.5        | PASS    |
| Band2 | 20MHz     | QPSK       | 18700   | 100RB#0      | NV            | -20              | 5.50           | 0.002957        | ±2.5        | PASS    |
| Band2 | 20MHz     | QPSK       | 18700   | 100RB#0      | NV            | 0                | -10.10         | -0.005430       | ±2.5        | PASS    |
| Band2 | 20MHz     | QPSK       | 18700   | 100RB#0      | NV            | 10               | -8.60          | -0.004624       | ±2.5        | PASS    |
| Band2 | 20MHz     | QPSK       | 18700   | 100RB#0      | NV            | 20               | -19.80         | -0.010645       | ±2.5        | PASS    |
| Band2 | 20MHz     | QPSK       | 18700   | 100RB#0      | NV            | 30               | -3.50          | -0.001882       | ±2.5        | PASS    |
| Band2 | 20MHz     | QPSK       | 18700   | 100RB#0      | NV            | 40               | -4.50          | -0.002419       | ±2.5        | PASS    |
| Band2 | 20MHz     | QPSK       | 18700   | 100RB#0      | NV            | 50               | -4.90          | -0.002634       | ±2.5        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | -30              | 0.70           | 0.000372        | ±2.5        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | -20              | -13.70         | -0.007287       | ±2.5        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | 0                | -4.70          | -0.002500       | ±2.5        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | 10               | -7.50          | -0.003989       | ±2.5        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | 20               | 0.70           | 0.000372        | ±2.5        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | 30               | -1.60          | -0.000851       | ±2.5        | PASS    |
| Band2 | 20MHz     | QPSK       | 18900   | 100RB#0      | NV            | 40               | 4.10           | 0.002181        | ±2.5        | PASS    |



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|       |       |       |       |         |    |     |        |           |      |      |
|-------|-------|-------|-------|---------|----|-----|--------|-----------|------|------|
| Band2 | 20MHz | QPSK  | 18900 | 100RB#0 | NV | 50  | 11.00  | 0.005851  | ±2.5 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 100RB#0 | NV | -30 | 4.60   | 0.002421  | ±2.5 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 100RB#0 | NV | -20 | -11.00 | -0.005789 | ±2.5 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 100RB#0 | NV | 0   | 3.80   | 0.002000  | ±2.5 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 100RB#0 | NV | 10  | -19.70 | -0.010368 | ±2.5 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 100RB#0 | NV | 20  | 6.70   | 0.003526  | ±2.5 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 100RB#0 | NV | 30  | -8.20  | -0.004316 | ±2.5 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 100RB#0 | NV | 40  | -5.30  | -0.002789 | ±2.5 | PASS |
| Band2 | 20MHz | QPSK  | 19100 | 100RB#0 | NV | 50  | -19.40 | -0.010211 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 100RB#0 | NV | -30 | 5.40   | 0.002903  | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 100RB#0 | NV | -20 | -6.10  | -0.003280 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 100RB#0 | NV | 0   | -13.80 | -0.007419 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 100RB#0 | NV | 10  | -8.70  | -0.004677 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 100RB#0 | NV | 20  | -6.00  | -0.003226 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 100RB#0 | NV | 30  | -3.70  | -0.001989 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 100RB#0 | NV | 40  | -9.50  | -0.005108 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18700 | 100RB#0 | NV | 50  | -5.70  | -0.003065 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 100RB#0 | NV | -30 | 3.80   | 0.002021  | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 100RB#0 | NV | -20 | 9.50   | 0.005053  | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 100RB#0 | NV | 0   | 10.80  | 0.005745  | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 100RB#0 | NV | 10  | -6.30  | -0.003351 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 100RB#0 | NV | 20  | -3.90  | -0.002074 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 100RB#0 | NV | 30  | -13.10 | -0.006968 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 100RB#0 | NV | 40  | -10.70 | -0.005691 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 18900 | 100RB#0 | NV | 50  | -10.30 | -0.005479 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 100RB#0 | NV | -30 | -5.70  | -0.003000 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 100RB#0 | NV | -20 | 7.30   | 0.003842  | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 100RB#0 | NV | 0   | -9.70  | -0.005105 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 100RB#0 | NV | 10  | -31.00 | -0.016316 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 100RB#0 | NV | 20  | 9.70   | 0.005105  | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 100RB#0 | NV | 30  | -6.90  | -0.003632 | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 100RB#0 | NV | 40  | 2.00   | 0.001053  | ±2.5 | PASS |
| Band2 | 20MHz | 16QAM | 19100 | 100RB#0 | NV | 50  | -8.50  | -0.004474 | ±2.5 | PASS |



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