



# Appendix B.7

## LTE Band 12



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

#### Ant13:

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | ERP(dBm) | Limit(dBm) | Verdict |
|--------|-----------|------------|---------|------------------|-------------|----------|------------|---------|
| Band12 | 1.4MHz    | QPSK       | 23017   | 1RB#0            | 24.14       | 14.49    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23017   | 1RB#2            | 23.90       | 14.25    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23017   | 1RB#5            | 23.77       | 14.12    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23017   | 6RB#0            | 22.78       | 13.13    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 1RB#0            | 23.78       | 14.13    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 1RB#2            | 23.91       | 14.26    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 1RB#5            | 23.83       | 14.18    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 6RB#0            | 22.84       | 13.19    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 1RB#0            | 23.71       | 14.06    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 1RB#2            | 23.92       | 14.27    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 1RB#5            | 23.92       | 14.27    | 34.77      | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 6RB#0            | 22.80       | 13.15    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 1RB#0            | 23.14       | 13.49    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 1RB#2            | 23.23       | 13.58    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 1RB#5            | 23.01       | 13.36    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 6RB#0            | 22.00       | 12.35    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 1RB#0            | 23.19       | 13.54    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 1RB#2            | 23.29       | 13.64    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 1RB#5            | 23.28       | 13.63    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 6RB#0            | 21.92       | 12.27    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23173   | 1RB#0            | 22.89       | 13.24    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23173   | 1RB#2            | 23.00       | 13.35    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23173   | 1RB#5            | 22.97       | 13.32    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23173   | 6RB#0            | 22.01       | 12.36    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 64QAM      | 23017   | 1RB#0            | 21.99       | 12.34    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 64QAM      | 23017   | 1RB#2            | 22.15       | 12.50    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 64QAM      | 23017   | 1RB#5            | 21.98       | 12.33    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 64QAM      | 23017   | 6RB#0            | 20.80       | 11.15    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 64QAM      | 23095   | 1RB#0            | 22.04       | 12.39    | 34.77      | PASS    |
| Band12 | 1.4MHz    | 64QAM      | 23095   | 1RB#2            | 21.83       | 12.18    | 34.77      | PASS    |



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|        |        |       |       |        |       |       |       |      |
|--------|--------|-------|-------|--------|-------|-------|-------|------|
| Band12 | 1.4MHz | 64QAM | 23095 | 1RB#5  | 21.91 | 12.26 | 34.77 | PASS |
| Band12 | 1.4MHz | 64QAM | 23095 | 6RB#0  | 20.75 | 11.10 | 34.77 | PASS |
| Band12 | 1.4MHz | 64QAM | 23173 | 1RB#0  | 21.91 | 12.26 | 34.77 | PASS |
| Band12 | 1.4MHz | 64QAM | 23173 | 1RB#2  | 21.98 | 12.33 | 34.77 | PASS |
| Band12 | 1.4MHz | 64QAM | 23173 | 1RB#5  | 22.33 | 12.68 | 34.77 | PASS |
| Band12 | 1.4MHz | 64QAM | 23173 | 6RB#0  | 20.81 | 11.16 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK  | 23025 | 1RB#0  | 23.76 | 14.11 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK  | 23025 | 1RB#8  | 23.84 | 14.19 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK  | 23025 | 1RB#14 | 23.91 | 14.26 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK  | 23025 | 15RB#0 | 22.98 | 13.33 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK  | 23095 | 1RB#0  | 23.71 | 14.06 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK  | 23095 | 1RB#8  | 23.97 | 14.32 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK  | 23095 | 1RB#14 | 23.79 | 14.14 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK  | 23095 | 15RB#0 | 22.85 | 13.20 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK  | 23165 | 1RB#0  | 23.85 | 14.20 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK  | 23165 | 1RB#8  | 23.80 | 14.15 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK  | 23165 | 1RB#14 | 23.82 | 14.17 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK  | 23165 | 15RB#0 | 22.90 | 13.25 | 34.77 | PASS |
| Band12 | 3MHz   | 16QAM | 23025 | 1RB#0  | 23.48 | 13.83 | 34.77 | PASS |
| Band12 | 3MHz   | 16QAM | 23025 | 1RB#8  | 23.11 | 13.46 | 34.77 | PASS |
| Band12 | 3MHz   | 16QAM | 23025 | 1RB#14 | 23.13 | 13.48 | 34.77 | PASS |
| Band12 | 3MHz   | 16QAM | 23025 | 15RB#0 | 22.01 | 12.36 | 34.77 | PASS |
| Band12 | 3MHz   | 16QAM | 23095 | 1RB#0  | 23.17 | 13.52 | 34.77 | PASS |
| Band12 | 3MHz   | 16QAM | 23095 | 1RB#8  | 23.16 | 13.51 | 34.77 | PASS |
| Band12 | 3MHz   | 16QAM | 23095 | 1RB#14 | 22.95 | 13.30 | 34.77 | PASS |
| Band12 | 3MHz   | 16QAM | 23095 | 15RB#0 | 21.88 | 12.23 | 34.77 | PASS |
| Band12 | 3MHz   | 16QAM | 23165 | 1RB#0  | 23.28 | 13.63 | 34.77 | PASS |
| Band12 | 3MHz   | 16QAM | 23165 | 1RB#8  | 23.04 | 13.39 | 34.77 | PASS |
| Band12 | 3MHz   | 16QAM | 23165 | 1RB#14 | 23.20 | 13.55 | 34.77 | PASS |
| Band12 | 3MHz   | 16QAM | 23165 | 15RB#0 | 21.88 | 12.23 | 34.77 | PASS |
| Band12 | 3MHz   | 64QAM | 23025 | 1RB#0  | 22.19 | 12.54 | 34.77 | PASS |
| Band12 | 3MHz   | 64QAM | 23025 | 1RB#8  | 22.21 | 12.56 | 34.77 | PASS |
| Band12 | 3MHz   | 64QAM | 23025 | 1RB#14 | 21.98 | 12.33 | 34.77 | PASS |
| Band12 | 3MHz   | 64QAM | 23025 | 15RB#0 | 20.91 | 11.26 | 34.77 | PASS |
| Band12 | 3MHz   | 64QAM | 23095 | 1RB#0  | 22.02 | 12.37 | 34.77 | PASS |
| Band12 | 3MHz   | 64QAM | 23095 | 1RB#8  | 22.01 | 12.36 | 34.77 | PASS |
| Band12 | 3MHz   | 64QAM | 23095 | 1RB#14 | 22.04 | 12.39 | 34.77 | PASS |
| Band12 | 3MHz   | 64QAM | 23095 | 15RB#0 | 20.77 | 11.12 | 34.77 | PASS |



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|        |      |       |       |        |       |       |       |      |
|--------|------|-------|-------|--------|-------|-------|-------|------|
| Band12 | 3MHz | 64QAM | 23165 | 1RB#0  | 22.03 | 12.38 | 34.77 | PASS |
| Band12 | 3MHz | 64QAM | 23165 | 1RB#8  | 22.10 | 12.45 | 34.77 | PASS |
| Band12 | 3MHz | 64QAM | 23165 | 1RB#14 | 22.03 | 12.38 | 34.77 | PASS |
| Band12 | 3MHz | 64QAM | 23165 | 15RB#0 | 20.88 | 11.23 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23035 | 1RB#0  | 24.24 | 14.59 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23035 | 1RB#12 | 23.71 | 14.06 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23035 | 1RB#24 | 23.97 | 14.32 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23035 | 25RB#0 | 22.97 | 13.32 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23095 | 1RB#0  | 23.89 | 14.24 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23095 | 1RB#12 | 23.77 | 14.12 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23095 | 1RB#24 | 23.85 | 14.20 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23095 | 25RB#0 | 22.92 | 13.27 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23155 | 1RB#0  | 23.91 | 14.26 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23155 | 1RB#12 | 23.77 | 14.12 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23155 | 1RB#24 | 23.95 | 14.30 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23155 | 25RB#0 | 22.88 | 13.23 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM | 23035 | 1RB#0  | 23.10 | 13.45 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM | 23035 | 1RB#12 | 23.04 | 13.39 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM | 23035 | 1RB#24 | 23.29 | 13.64 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM | 23035 | 25RB#0 | 22.01 | 12.36 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM | 23095 | 1RB#0  | 23.33 | 13.68 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM | 23095 | 1RB#12 | 23.07 | 13.42 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM | 23095 | 1RB#24 | 23.08 | 13.43 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM | 23095 | 25RB#0 | 21.95 | 12.30 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM | 23155 | 1RB#0  | 23.11 | 13.46 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM | 23155 | 1RB#12 | 23.09 | 13.44 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM | 23155 | 1RB#24 | 23.17 | 13.52 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM | 23155 | 25RB#0 | 21.88 | 12.23 | 34.77 | PASS |
| Band12 | 5MHz | 64QAM | 23035 | 1RB#0  | 22.07 | 12.42 | 34.77 | PASS |
| Band12 | 5MHz | 64QAM | 23035 | 1RB#12 | 21.89 | 12.24 | 34.77 | PASS |
| Band12 | 5MHz | 64QAM | 23035 | 1RB#24 | 22.02 | 12.37 | 34.77 | PASS |
| Band12 | 5MHz | 64QAM | 23035 | 25RB#0 | 20.87 | 11.22 | 34.77 | PASS |
| Band12 | 5MHz | 64QAM | 23095 | 1RB#0  | 21.99 | 12.34 | 34.77 | PASS |
| Band12 | 5MHz | 64QAM | 23095 | 1RB#12 | 21.94 | 12.29 | 34.77 | PASS |
| Band12 | 5MHz | 64QAM | 23095 | 1RB#24 | 22.00 | 12.35 | 34.77 | PASS |
| Band12 | 5MHz | 64QAM | 23095 | 25RB#0 | 20.81 | 11.16 | 34.77 | PASS |
| Band12 | 5MHz | 64QAM | 23155 | 1RB#0  | 22.00 | 12.35 | 34.77 | PASS |
| Band12 | 5MHz | 64QAM | 23155 | 1RB#12 | 22.03 | 12.38 | 34.77 | PASS |



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|        |       |       |       |        |       |       |       |      |
|--------|-------|-------|-------|--------|-------|-------|-------|------|
| Band12 | 5MHz  | 64QAM | 23155 | 1RB#24 | 21.91 | 12.26 | 34.77 | PASS |
| Band12 | 5MHz  | 64QAM | 23155 | 25RB#0 | 20.88 | 11.23 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23060 | 1RB#0  | 24.42 | 14.77 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23060 | 1RB#24 | 23.89 | 14.24 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23060 | 1RB#49 | 24.17 | 14.52 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23060 | 50RB#0 | 23.05 | 13.40 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23095 | 1RB#0  | 24.26 | 14.61 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23095 | 1RB#24 | 23.75 | 14.10 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23095 | 1RB#49 | 23.92 | 14.27 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23095 | 50RB#0 | 22.93 | 13.28 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 1RB#0  | 24.39 | 14.74 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 1RB#24 | 23.98 | 14.33 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 1RB#49 | 24.57 | 14.92 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 50RB#0 | 22.95 | 13.30 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 1RB#0  | 23.56 | 13.91 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 1RB#24 | 23.47 | 13.82 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 1RB#49 | 23.06 | 13.41 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 50RB#0 | 22.08 | 12.43 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 1RB#0  | 23.45 | 13.80 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 1RB#24 | 23.10 | 13.45 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 1RB#49 | 23.13 | 13.48 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 50RB#0 | 21.94 | 12.29 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 1RB#0  | 23.45 | 13.80 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 1RB#24 | 22.97 | 13.32 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 1RB#49 | 23.09 | 13.44 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 50RB#0 | 22.00 | 12.35 | 34.77 | PASS |
| Band12 | 10MHz | 64QAM | 23060 | 1RB#0  | 22.25 | 12.60 | 34.77 | PASS |
| Band12 | 10MHz | 64QAM | 23060 | 1RB#24 | 21.95 | 12.30 | 34.77 | PASS |
| Band12 | 10MHz | 64QAM | 23060 | 1RB#49 | 22.10 | 12.45 | 34.77 | PASS |
| Band12 | 10MHz | 64QAM | 23060 | 50RB#0 | 20.95 | 11.30 | 34.77 | PASS |
| Band12 | 10MHz | 64QAM | 23095 | 1RB#0  | 22.38 | 12.73 | 34.77 | PASS |
| Band12 | 10MHz | 64QAM | 23095 | 1RB#24 | 21.93 | 12.28 | 34.77 | PASS |
| Band12 | 10MHz | 64QAM | 23095 | 1RB#49 | 22.04 | 12.39 | 34.77 | PASS |
| Band12 | 10MHz | 64QAM | 23095 | 50RB#0 | 20.89 | 11.24 | 34.77 | PASS |
| Band12 | 10MHz | 64QAM | 23130 | 1RB#0  | 22.51 | 12.86 | 34.77 | PASS |
| Band12 | 10MHz | 64QAM | 23130 | 1RB#24 | 21.91 | 12.26 | 34.77 | PASS |
| Band12 | 10MHz | 64QAM | 23130 | 1RB#49 | 21.91 | 12.26 | 34.77 | PASS |
| Band12 | 10MHz | 64QAM | 23130 | 50RB#0 | 20.94 | 11.29 | 34.77 | PASS |



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## Peak-to-Average Ratio(CCDF)

### Test Result

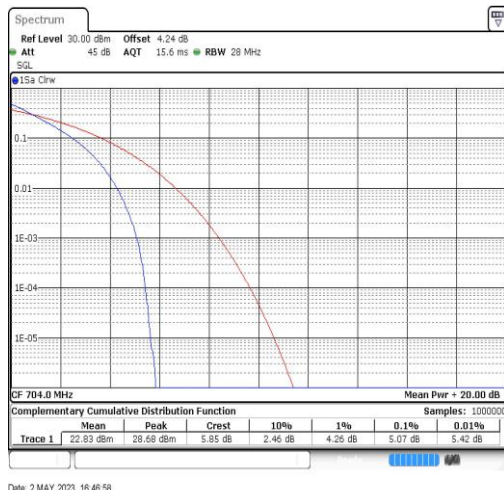
| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band12 | 10MHz     | QPSK       | 23060   | 50RB#0           | 5.07       | 13        | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0           | 5.16       | 13        | PASS    |
| Band12 | 10MHz     | QPSK       | 23130   | 50RB#0           | 5.04       | 13        | PASS    |
| Band12 | 10MHz     | 16QAM      | 23060   | 50RB#0           | 5.91       | 13        | PASS    |
| Band12 | 10MHz     | 16QAM      | 23095   | 50RB#0           | 5.91       | 13        | PASS    |
| Band12 | 10MHz     | 16QAM      | 23130   | 50RB#0           | 5.83       | 13        | PASS    |
| Band12 | 10MHz     | 64QAM      | 23060   | 50RB#0           | 6.35       | 13        | PASS    |
| Band12 | 10MHz     | 64QAM      | 23095   | 50RB#0           | 6.38       | 13        | PASS    |
| Band12 | 10MHz     | 64QAM      | 23130   | 50RB#0           | 6.29       | 13        | PASS    |



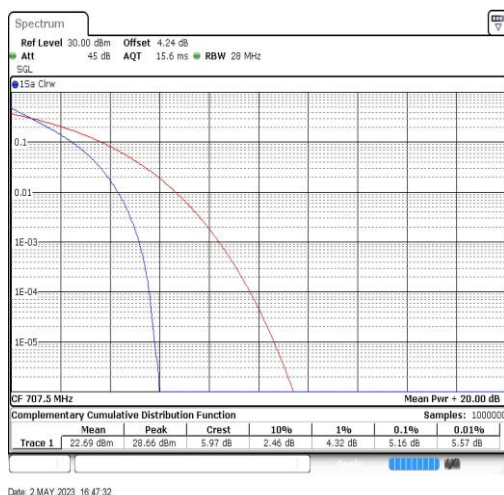
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### Test Graphs



Band12-10MHz-QPSK-23060-50RB#0

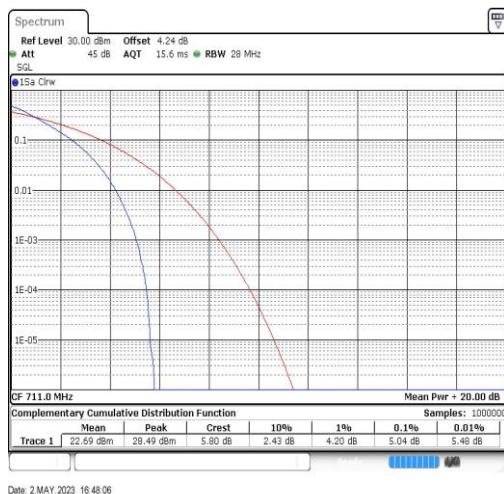


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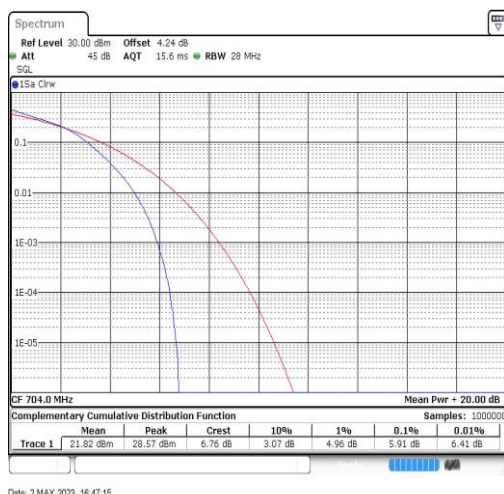
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Date: 2 MAY 2023 16:48:06

Band12-10MHz-QPSK-23130-50RB#0



Date: 2 MAY 2023 16:47:15

Band12-10MHz-16QAM-23060-50RB#0

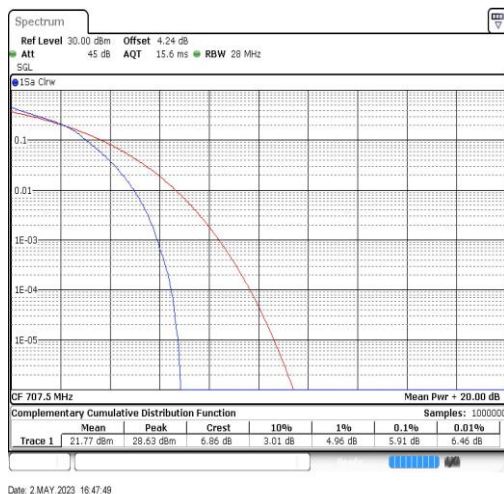


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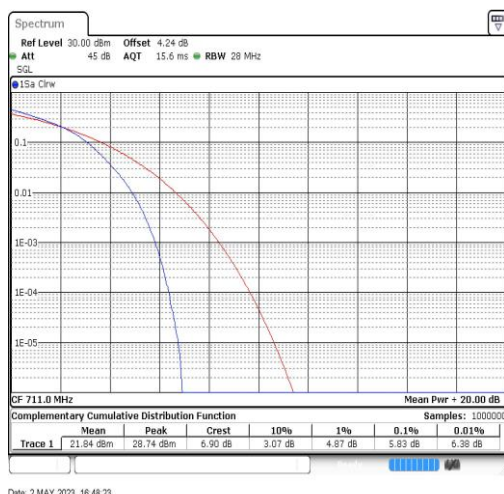
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Date: 2 MAY 2023 16:47:49

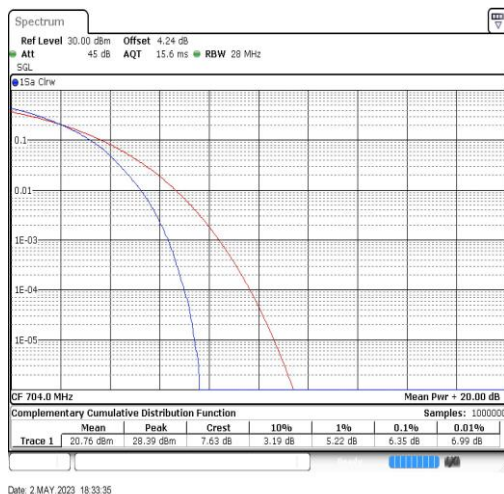
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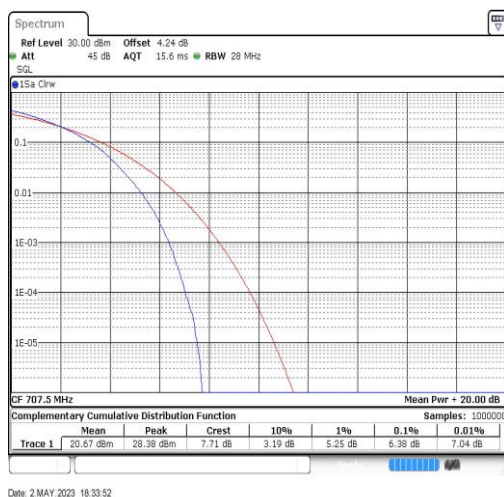
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Band12-10MHz-64QAM-23060-50RB#0



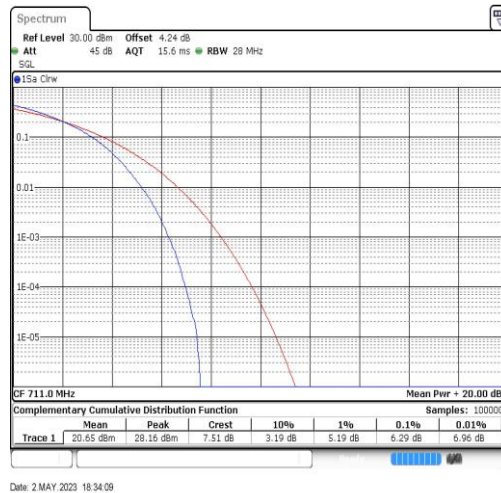
Band12-10MHz-64QAM-23095-50RB#0



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Band12-10MHz-64QAM-23130-50RB#0



## 26dB Bandwidth and Occupied Bandwidth

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|--------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band12 | 1.4MHz    | QPSK       | 23017   | 6RB#0            | 1.088                    | 1.29                 | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 6RB#0            | 1.088                    | 1.28                 | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 6RB#0            | 1.091                    | 1.29                 | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 6RB#0            | 1.097                    | 1.29                 | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 6RB#0            | 1.1                      | 1.31                 | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23173   | 6RB#0            | 1.097                    | 1.29                 | PASS    |
| Band12 | 1.4MHz    | 64QAM      | 23017   | 6RB#0            | 1.094                    | 1.30                 | PASS    |
| Band12 | 1.4MHz    | 64QAM      | 23095   | 6RB#0            | 1.1                      | 1.30                 | PASS    |
| Band12 | 1.4MHz    | 64QAM      | 23173   | 6RB#0            | 1.094                    | 1.29                 | PASS    |
| Band12 | 3MHz      | QPSK       | 23025   | 15RB#0           | 2.691                    | 2.97                 | PASS    |
| Band12 | 3MHz      | QPSK       | 23095   | 15RB#0           | 2.697                    | 2.97                 | PASS    |
| Band12 | 3MHz      | QPSK       | 23165   | 15RB#0           | 2.697                    | 2.96                 | PASS    |
| Band12 | 3MHz      | 16QAM      | 23025   | 15RB#0           | 2.691                    | 2.98                 | PASS    |
| Band12 | 3MHz      | 16QAM      | 23095   | 15RB#0           | 2.685                    | 2.97                 | PASS    |
| Band12 | 3MHz      | 16QAM      | 23165   | 15RB#0           | 2.691                    | 2.97                 | PASS    |
| Band12 | 3MHz      | 64QAM      | 23025   | 15RB#0           | 2.685                    | 2.97                 | PASS    |
| Band12 | 3MHz      | 64QAM      | 23095   | 15RB#0           | 2.691                    | 2.96                 | PASS    |
| Band12 | 3MHz      | 64QAM      | 23165   | 15RB#0           | 2.685                    | 2.96                 | PASS    |
| Band12 | 5MHz      | QPSK       | 23035   | 25RB#0           | 4.466                    | 4.88                 | PASS    |
| Band12 | 5MHz      | QPSK       | 23095   | 25RB#0           | 4.476                    | 4.91                 | PASS    |
| Band12 | 5MHz      | QPSK       | 23155   | 25RB#0           | 4.466                    | 4.87                 | PASS    |
| Band12 | 5MHz      | 16QAM      | 23035   | 25RB#0           | 4.466                    | 4.93                 | PASS    |
| Band12 | 5MHz      | 16QAM      | 23095   | 25RB#0           | 4.476                    | 4.94                 | PASS    |
| Band12 | 5MHz      | 16QAM      | 23155   | 25RB#0           | 4.466                    | 4.95                 | PASS    |
| Band12 | 5MHz      | 64QAM      | 23095   | 25RB#0           | 4.486                    | 4.94                 | PASS    |
| Band12 | 5MHz      | 64QAM      | 23035   | 25RB#0           | 4.476                    | 4.89                 | PASS    |
| Band12 | 5MHz      | 64QAM      | 23155   | 25RB#0           | 4.486                    | 4.91                 | PASS    |
| Band12 | 10MHz     | QPSK       | 23060   | 50RB#0           | 8.931                    | 9.64                 | PASS    |



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Report No.: ZEWM2310001500RG02

Page: 13 of 53

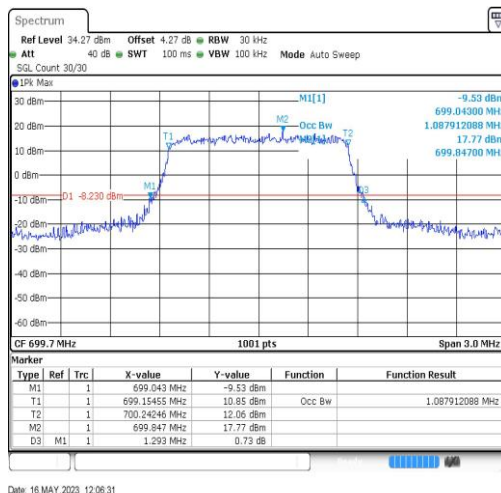
|        |       |       |       |        |       |      |      |
|--------|-------|-------|-------|--------|-------|------|------|
| Band12 | 10MHz | QPSK  | 23095 | 50RB#0 | 8.931 | 9.74 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 50RB#0 | 8.911 | 9.60 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 50RB#0 | 8.911 | 9.64 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 50RB#0 | 8.931 | 9.72 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 50RB#0 | 8.911 | 9.64 | PASS |
| Band12 | 10MHz | 64QAM | 23095 | 50RB#0 | 8.951 | 9.76 | PASS |
| Band12 | 10MHz | 64QAM | 23130 | 50RB#0 | 8.911 | 9.68 | PASS |
| Band12 | 10MHz | 64QAM | 23060 | 50RB#0 | 8.911 | 9.66 | PASS |



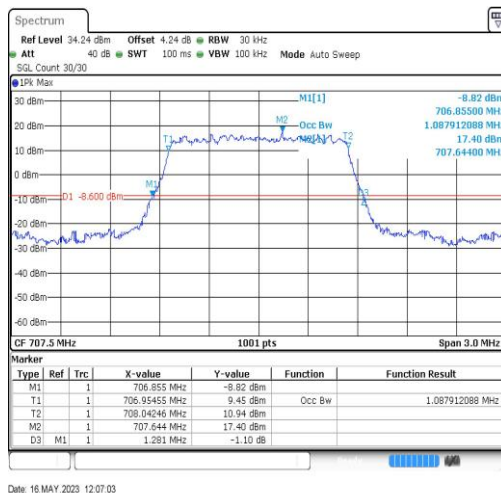
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### Test Graphs



Band12-1.4MHz-QPSK-23017-6RB#0-1.088



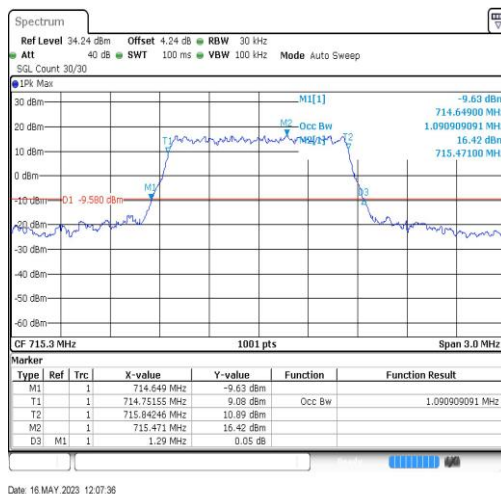
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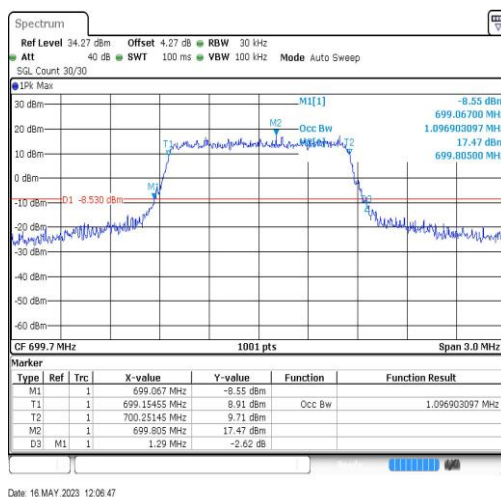
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Band12-1.4MHz-QPSK-23173-6RB#0-1.091



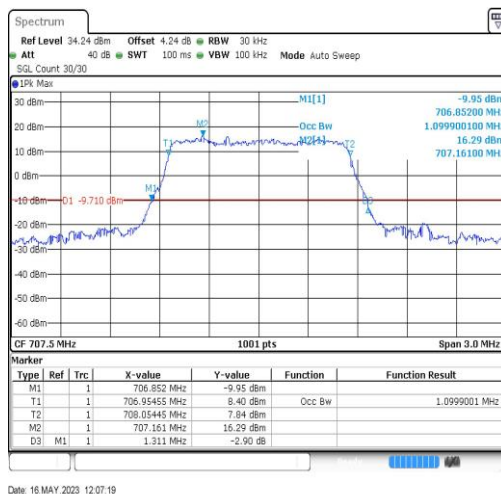
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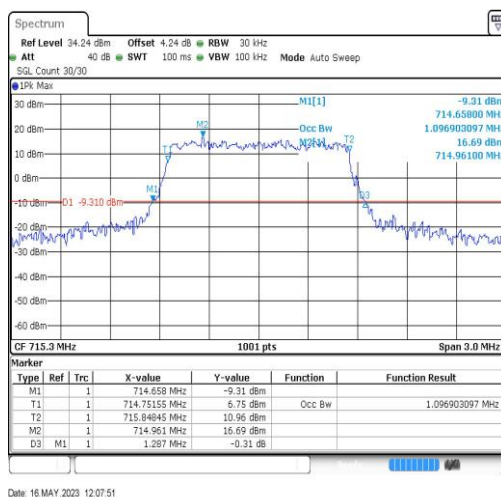
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Band12-1.4MHz-16QAM-23095-6RB#0-1.1



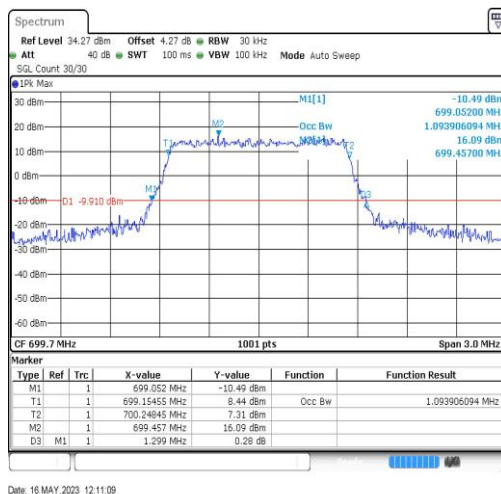
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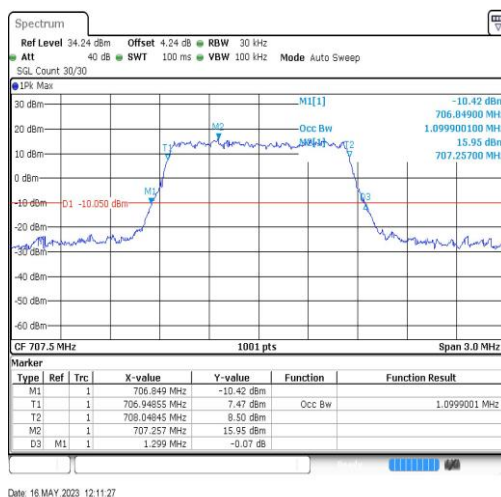
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Band12-1.4MHz-64QAM-23017-6RB#0-1.094



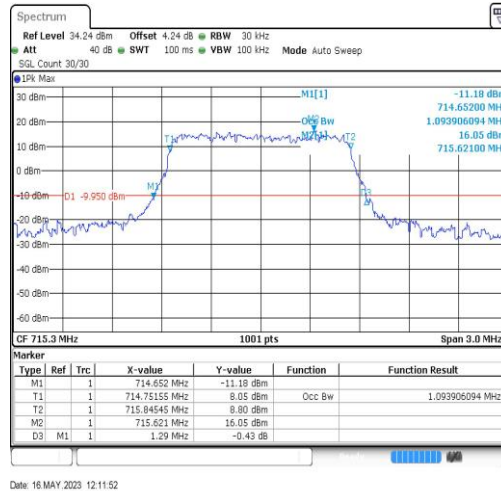
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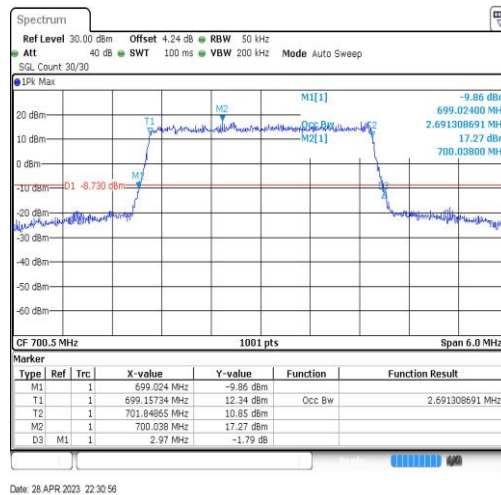
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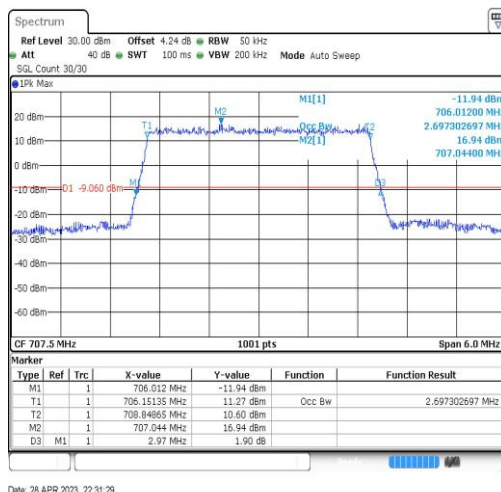


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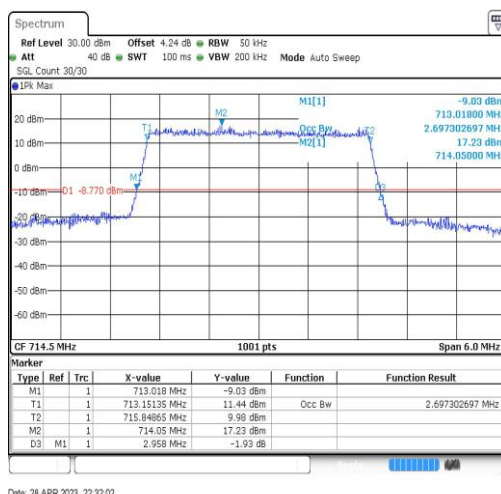
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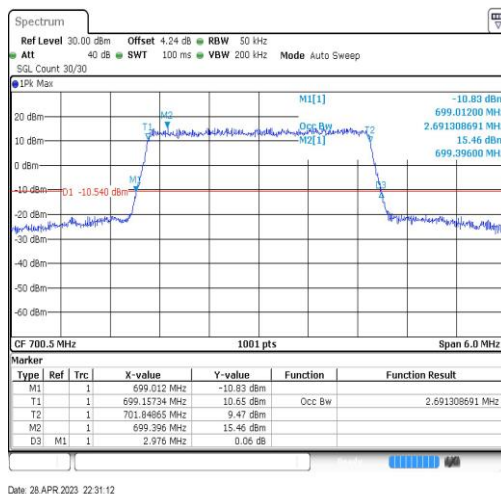
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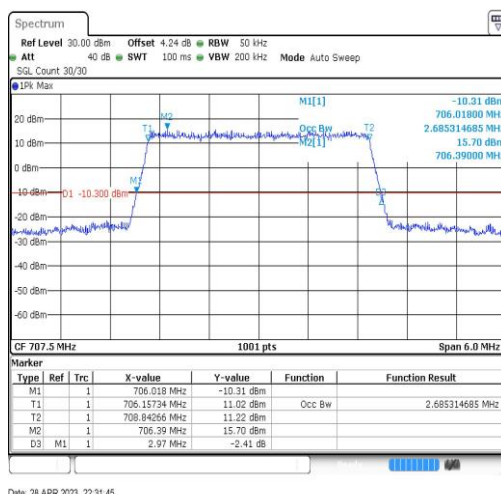
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Band12-3MHz-16QAM-23095-15RB#0-2.685

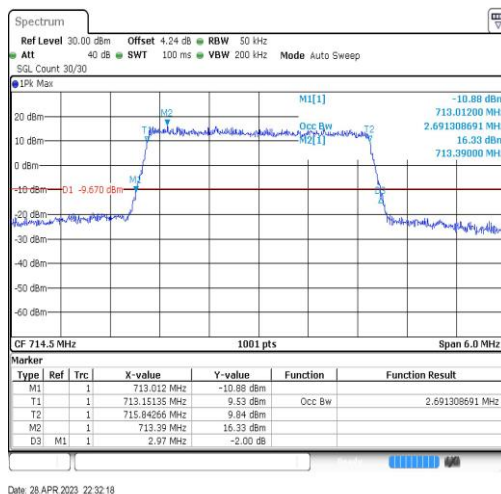


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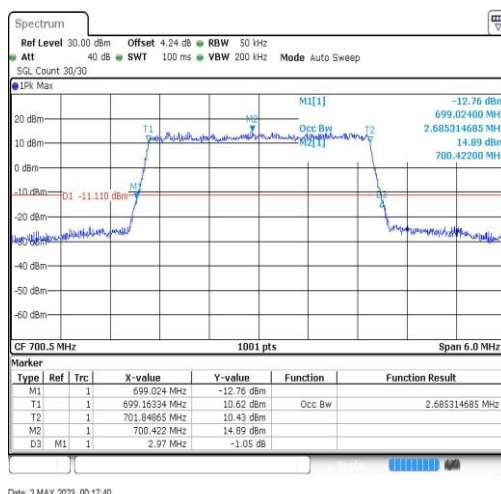
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Band12-3MHz-16QAM-23165-15RB#0-2.691



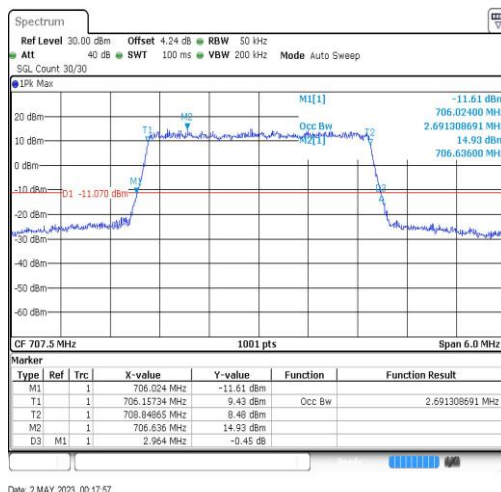
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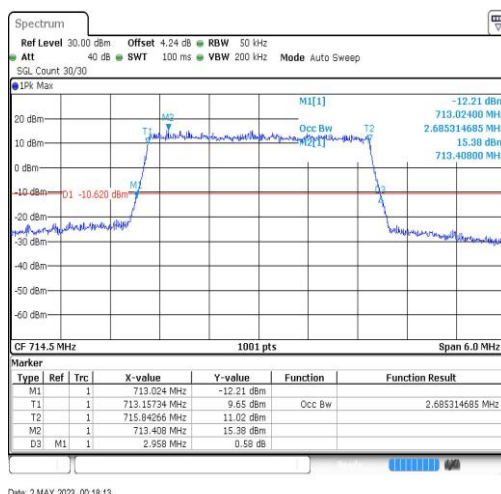
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Band12-3MHz-64QAM-23095-15RB#0-2.691



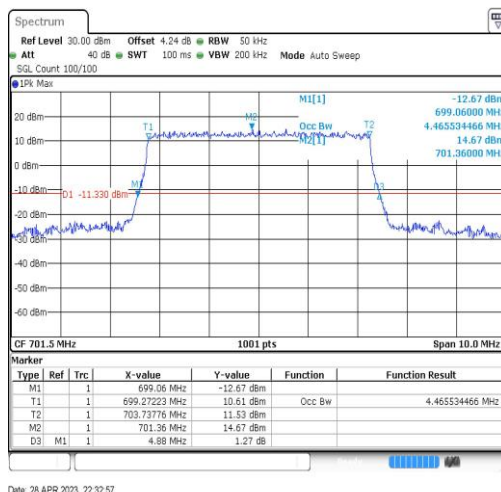
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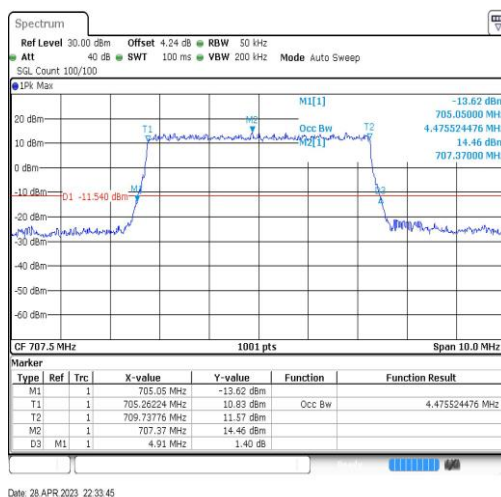
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Band12-5MHz-QPSK-23035-25RB#0-4.466



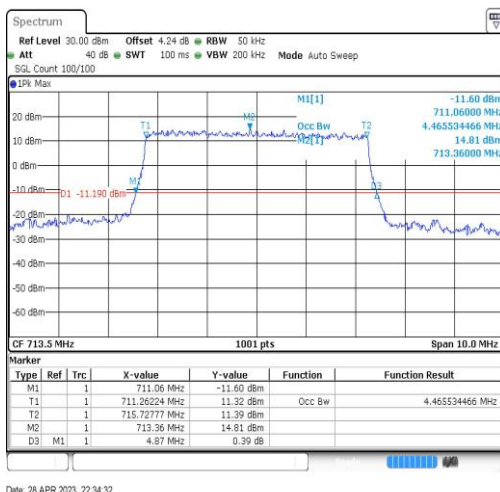
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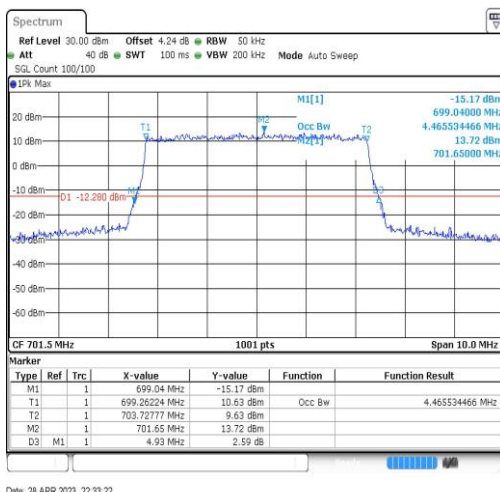
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Date: 28 APR 2023 22:34:32

### Band12-5MHz-QPSK-23155-25RB#0-4.466



Date: 28 APR 2023 22:33:22

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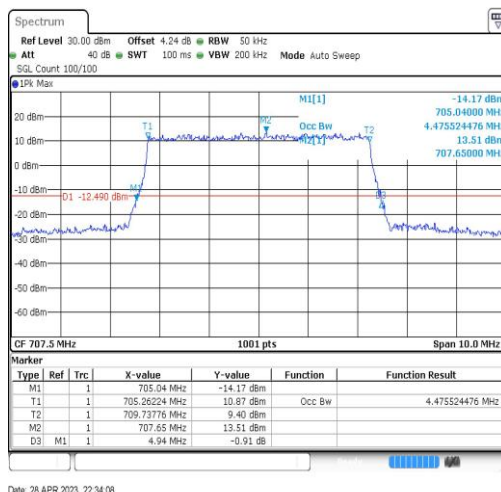


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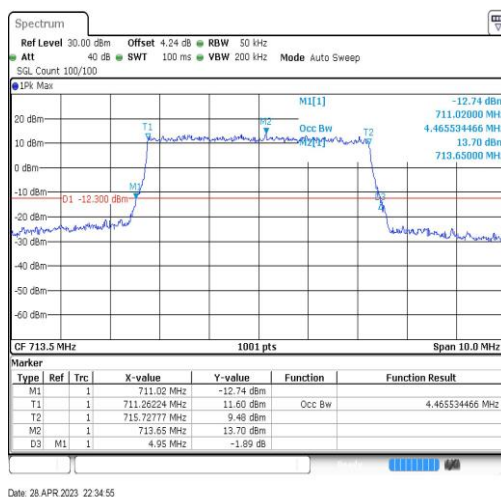
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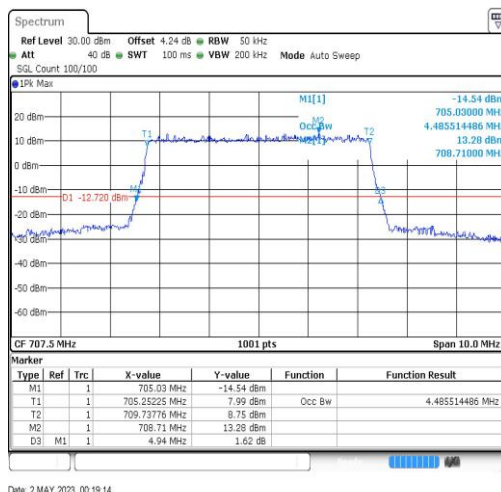
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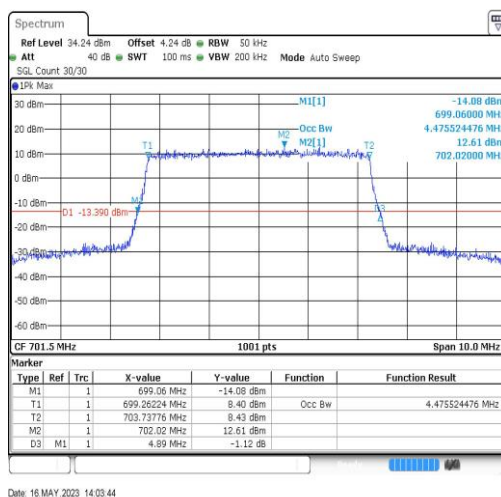
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Band12-5MHz-64QAM-23095-25RB#0-4.486



Band12-5MHz-64QAM-23035-25RB#0-4.476

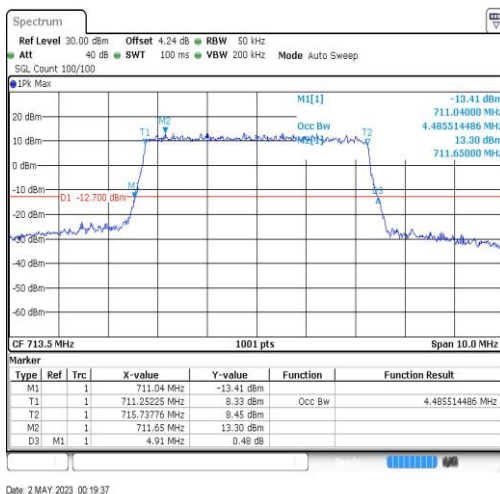


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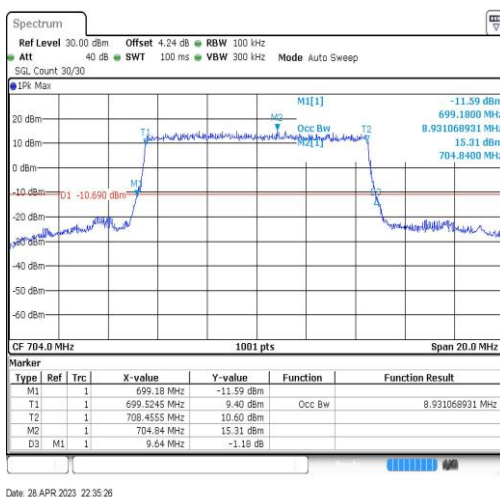
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Band12-5MHz-64QAM-23155-25RB#0-4.486



Band12-10MHz-QPSK-23060-50RB#0-8.931

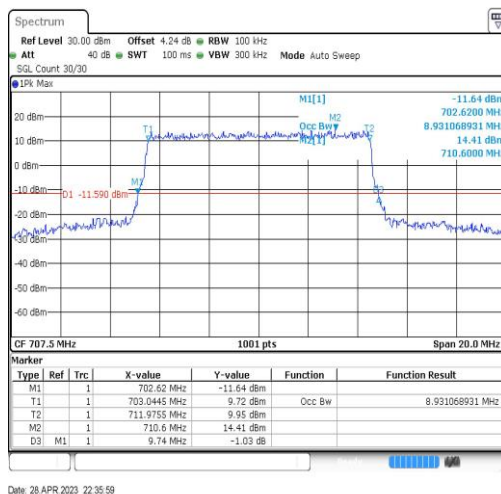


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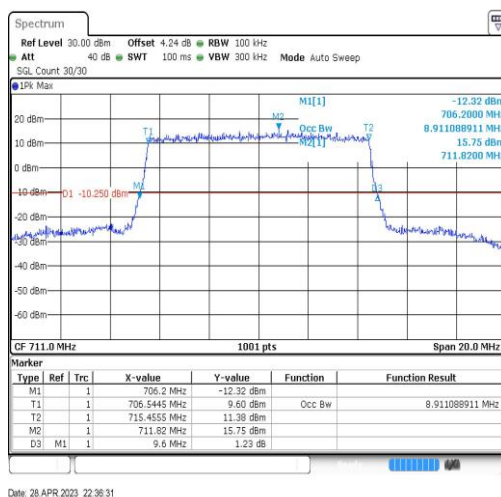
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Band12-10MHz-QPSK-23095-50RB#0-8.931



Band12-10MHz-QPSK-23130-50RB#0-8.911

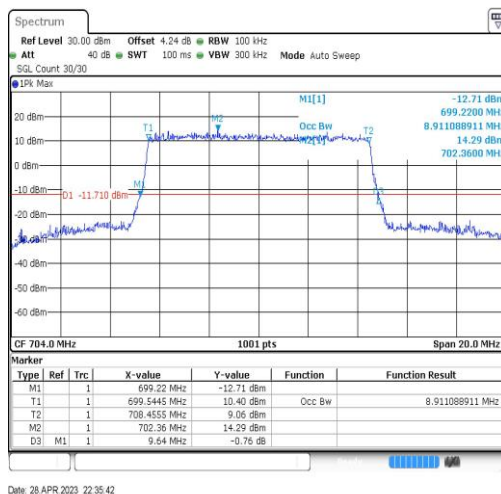


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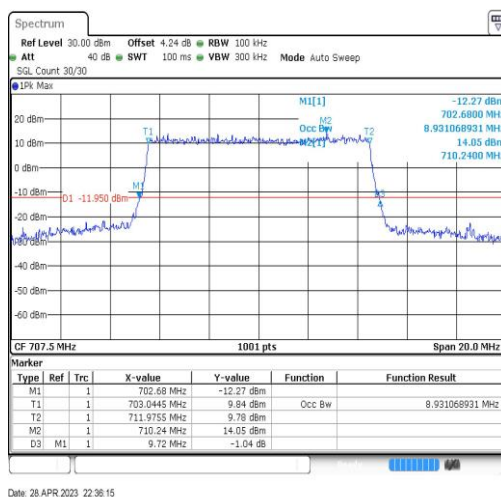
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Band12-10MHz-16QAM-23060-50RB#0-8.911



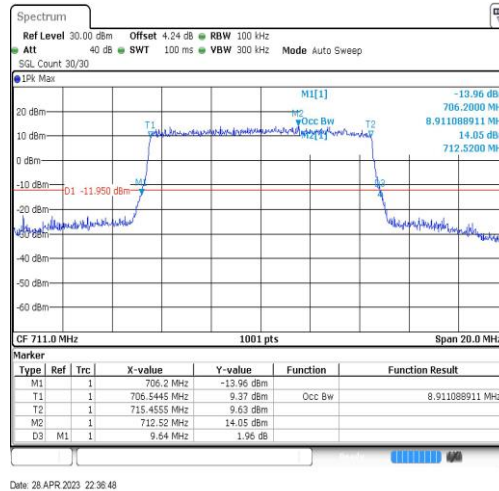
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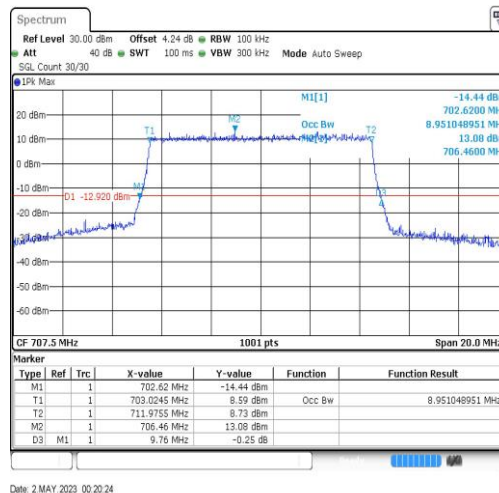
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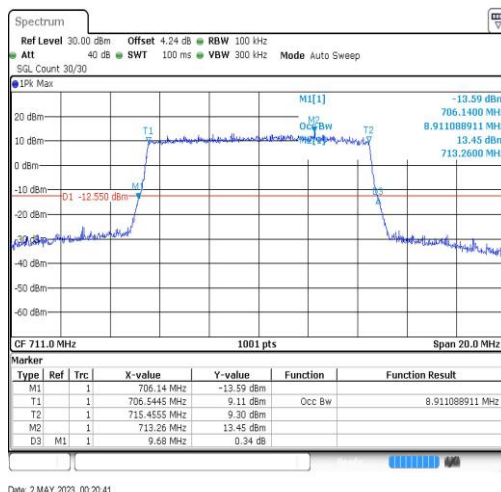


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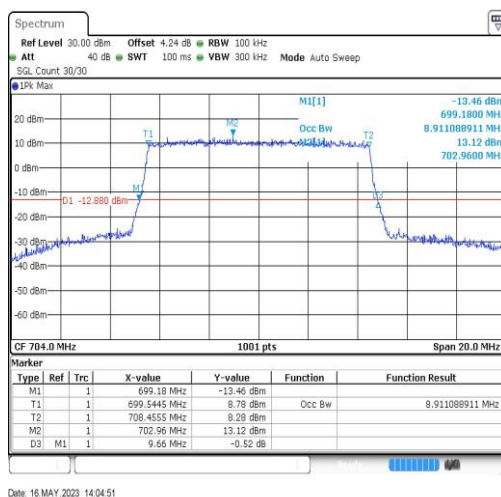


Band12-10MHz-64QAM-23095-50RB#0-8.951





Band12-10MHz-64QAM-23130-50RB#0-8.911



Band12-10MHz-64QAM-23060-50RB#0-8.911



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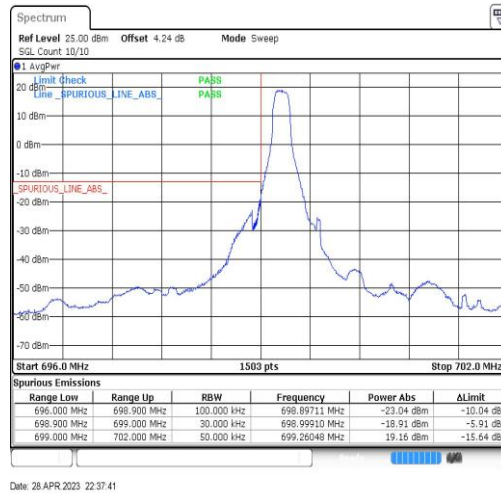
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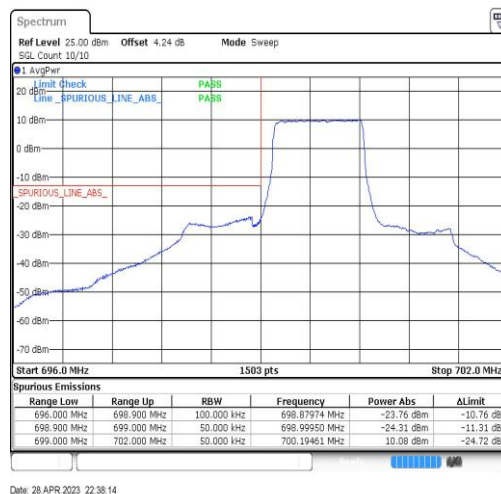
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## Band Edge

## Test Graphs



Band12-1.4MHz-QPSK-23017-1RB#0



Band12-1.4MHz-QPSK-23017-6RB#0



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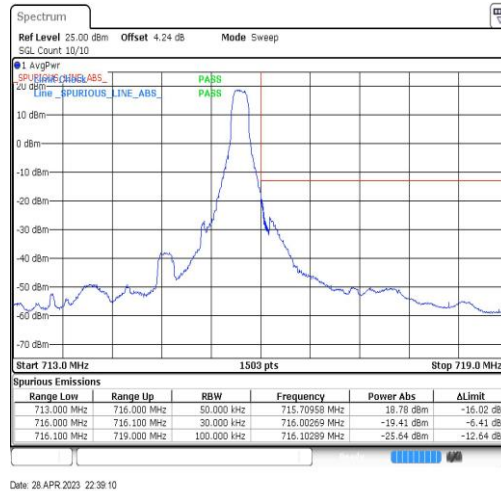
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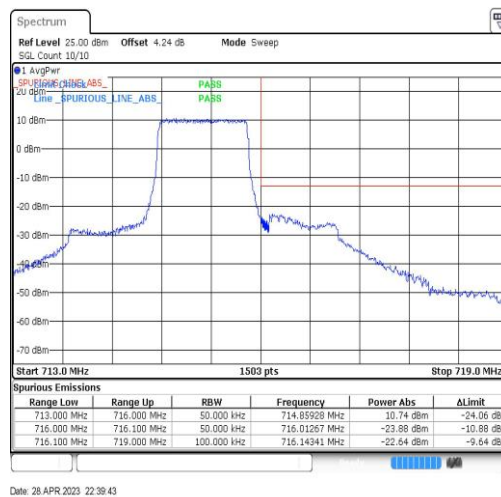
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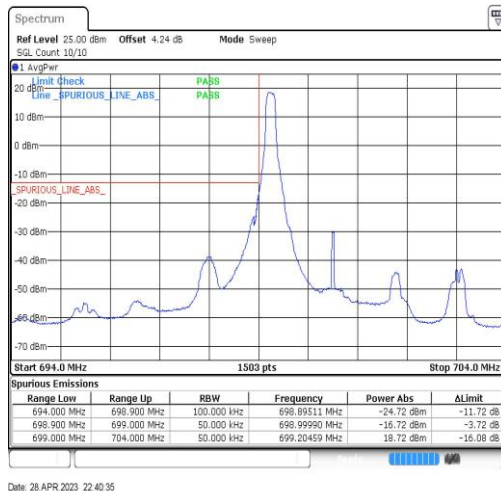


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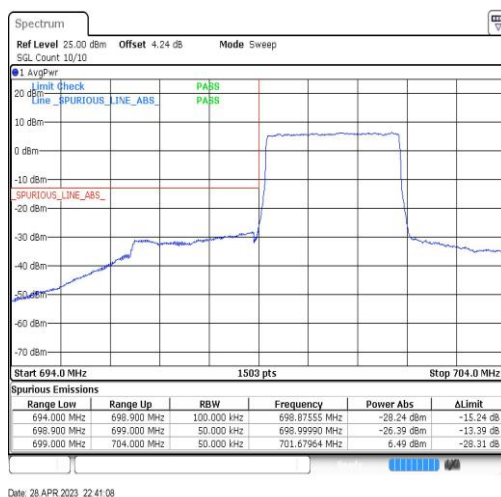


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Band12-3MHz-QPSK-23025-1RB#0



Band12-3MHz-QPSK-23025-15RB#0

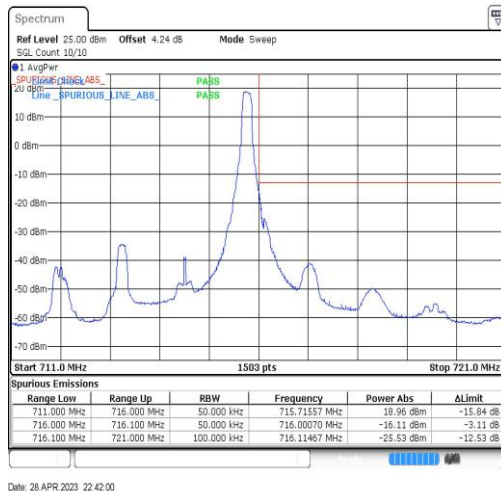


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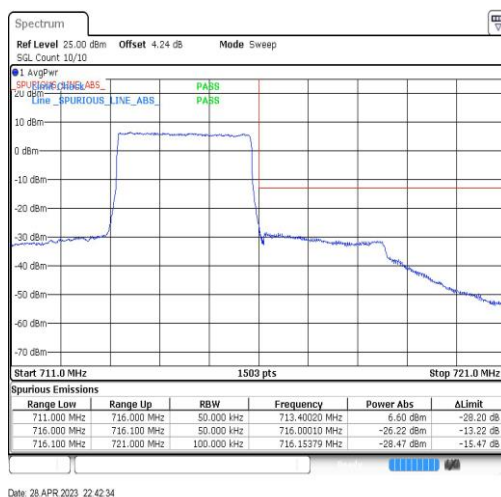
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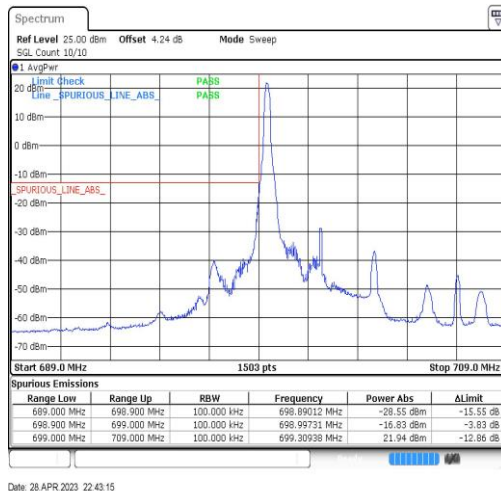


Band12-3MHz-QPSK-23165-1RB#14

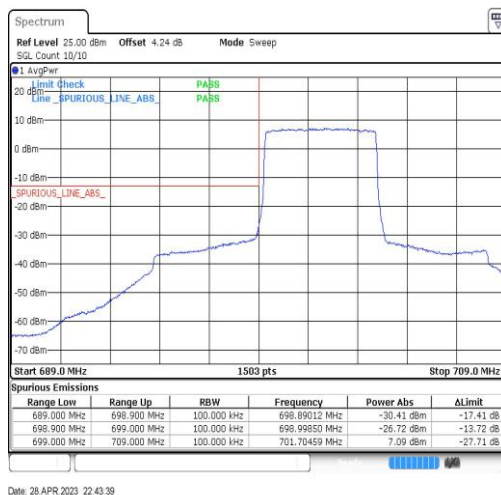


Band12-3MHz-QPSK-23165-15RB#0





Band12-5MHz-QPSK-23035-1RB#0



Band12-5MHz-QPSK-23035-25RB#0

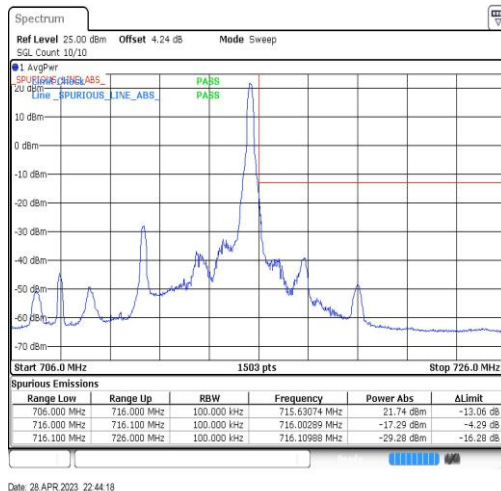


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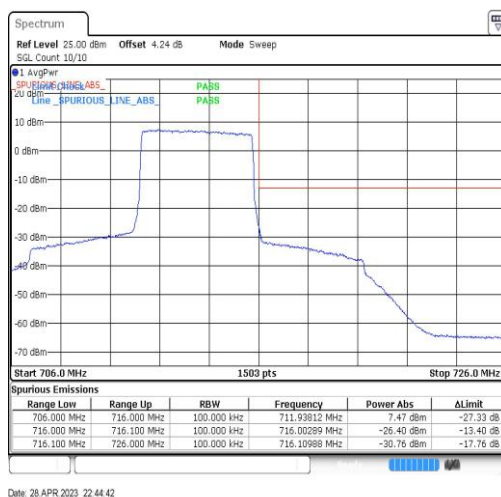
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Band12-5MHz-QPSK-23155-1RB#24



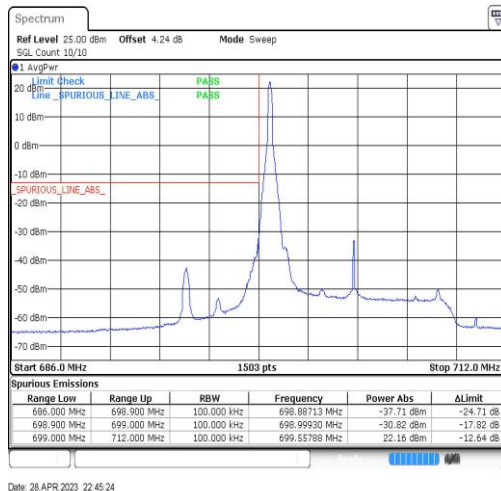
Band12-5MHz-QPSK-23155-25RB#0



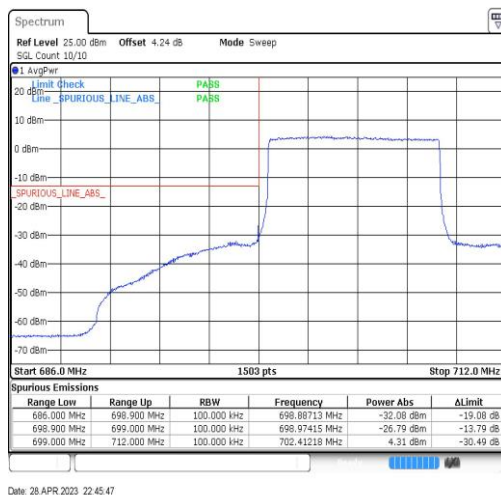
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Band12-10MHz-QPSK-23060-1RB#0



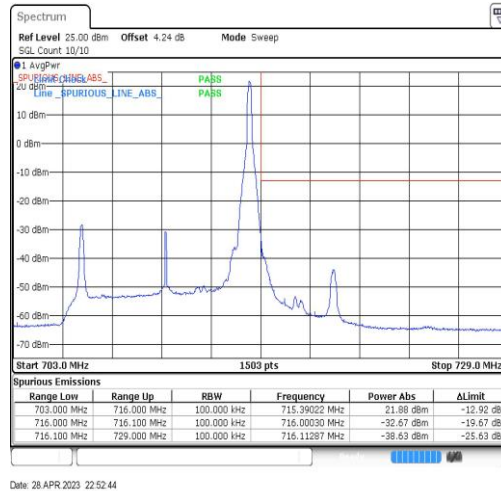
Band12-10MHz-QPSK-23060-50RB#0



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Band12-10MHz-QPSK-23130-1RB#49



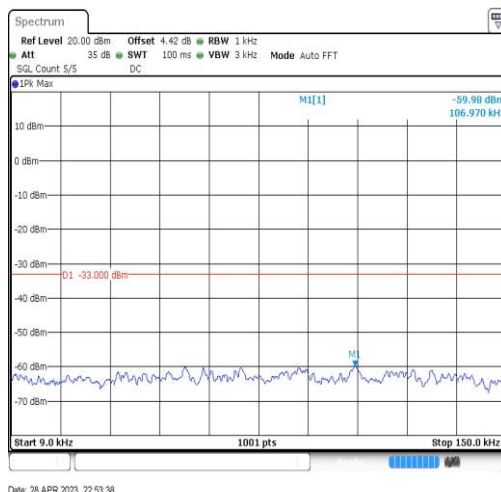
Band12-10MHz-QPSK-23130-50RB#0



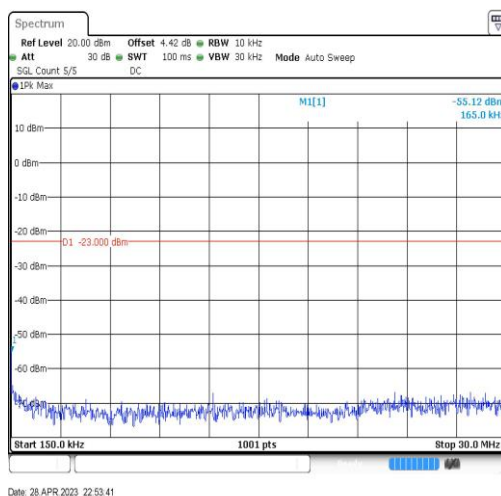


## Conducted Spurious Emission

### Test Graphs



Band12-10MHz-QPSK-23060-1RB#0-Range1:0.009~0.15MHz

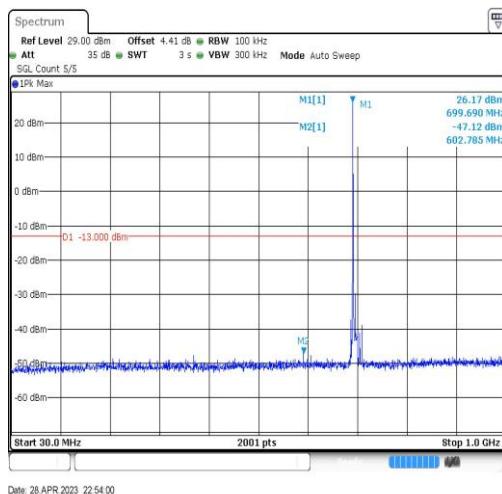


Band12-10MHz-QPSK-23060-1RB#0-Range2:0.15~30MHz

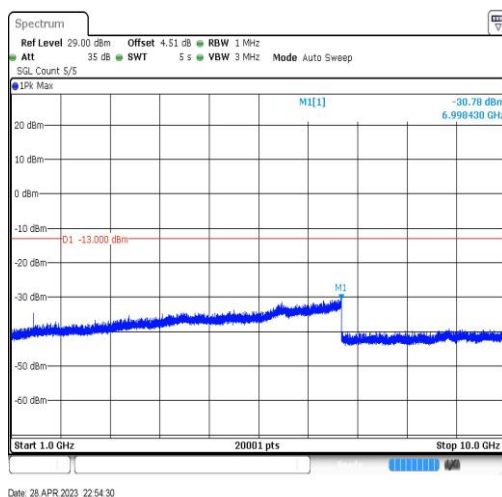


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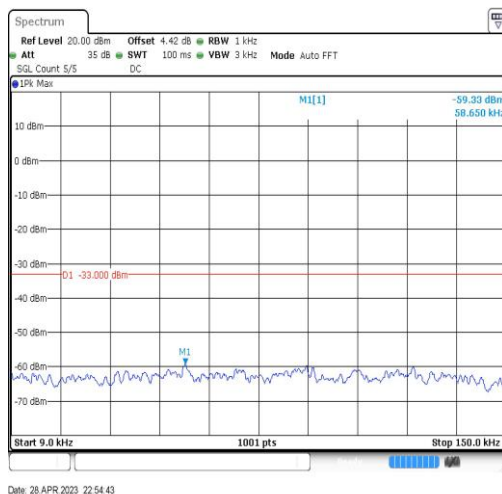


Band12-10MHz-QPSK-23060-1RB#0-Range3:30~1000MHz

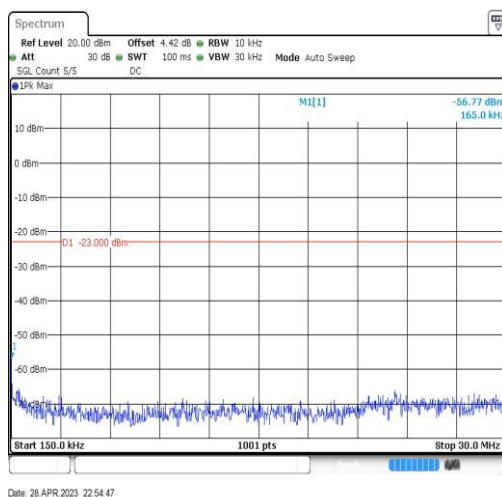


Band12-10MHz-QPSK-23060-1RB#0-Range4:1000~10000MHz



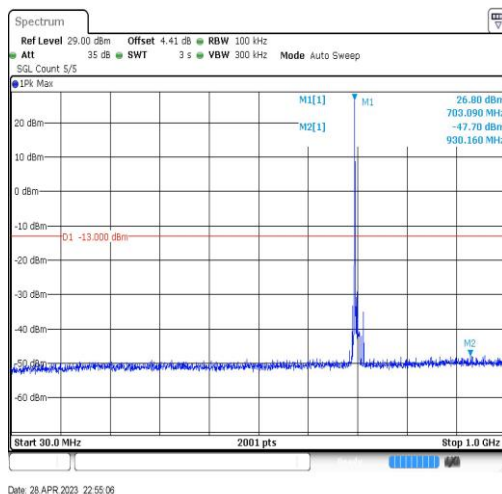


Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz

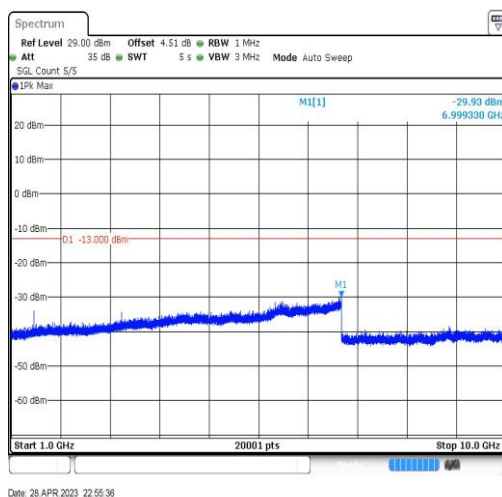


Band12-10MHz-QPSK-23095-1RB#0-Range2:0.15~30MHz



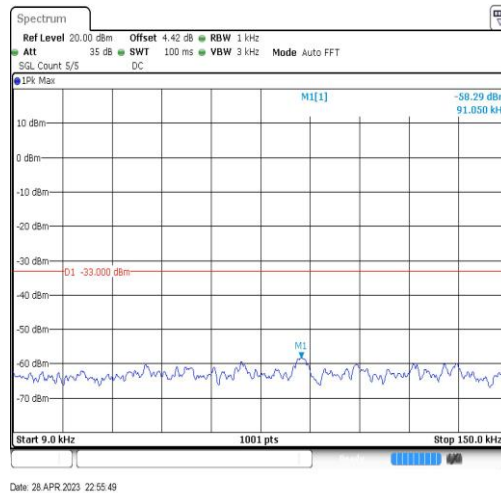


Band12-10MHz-QPSK-23095-1RB#0-Range3:30~1000MHz

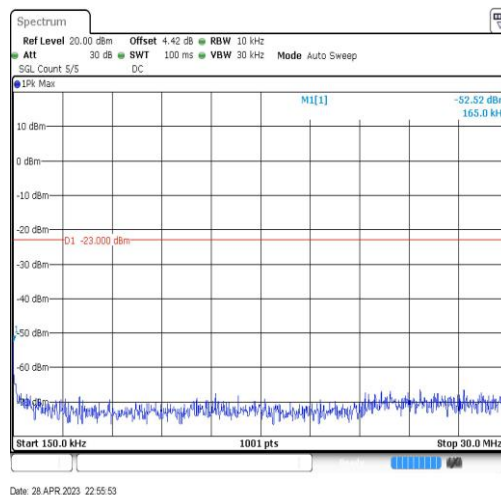


Band12-10MHz-QPSK-23095-1RB#0-Range4:1000~10000MHz



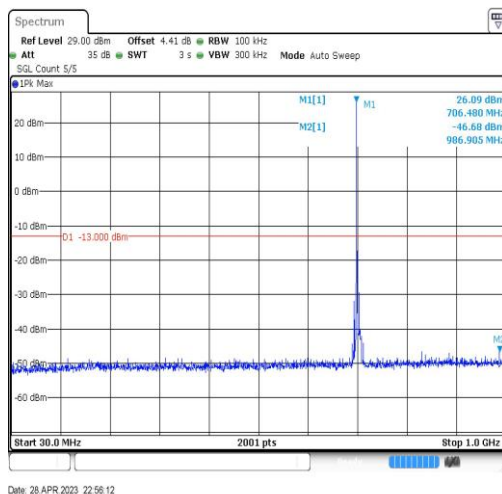


Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz

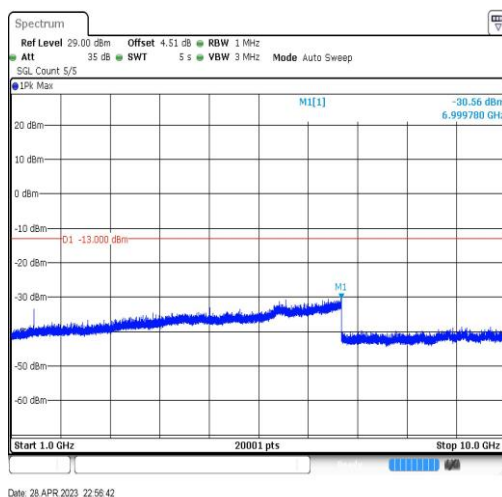


Band12-10MHz-QPSK-23130-1RB#0-Range2:0.15~30MHz





Band12-10MHz-QPSK-23130-1RB#0-Range3:30~1000MHz



Band12-10MHz-QPSK-23130-1RB#0-Range4:1000~10000MHz





## Field Strength of Spurious Radiation

Test Band = LTE\_12 ANT 13 \_10MHz \_TM1

Test Channel = LCH

| Final Data List |                |                   |                |              |                |                |                |                |              |            |
|-----------------|----------------|-------------------|----------------|--------------|----------------|----------------|----------------|----------------|--------------|------------|
| NO.             | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF<br>[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
| 1               | 1399.0499      | 52.71             | -47.39         | 24.90        | -65.04         | -13.00         | 52.04          | 201            | 275          | Horizontal |
| 2               | 2098.8874      | 50.17             | -46.87         | 26.79        | -65.17         | -13.00         | 52.17          | 269            | 24           | Horizontal |
| 3               | 3051.8026      | 47.71             | -45.23         | 28.80        | -63.98         | -13.00         | 50.98          | 264            | 193          | Horizontal |
| 4               | 3903.7452      | 48.49             | -44.20         | 29.71        | -61.26         | -13.00         | 48.26          | 213            | 358          | Horizontal |
| 5               | 5342.3171      | 46.85             | -42.17         | 32.15        | -58.43         | -13.00         | 45.43          | 198            | 188          | Horizontal |
| 6               | 7351.0676      | 44.99             | -38.57         | 36.50        | -52.34         | -13.00         | 39.34          | 264            | 268          | Horizontal |

| Final Data List |                |                   |                |              |                |                |                |                |              |          |
|-----------------|----------------|-------------------|----------------|--------------|----------------|----------------|----------------|----------------|--------------|----------|
| NO.             | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF<br>[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
| 1               | 1399.2999      | 49.98             | -47.39         | 24.90        | -67.77         | -13.00         | 54.77          | 261            | 266          | Vertical |
| 2               | 2360.6701      | 48.38             | -46.62         | 27.56        | -65.94         | -13.00         | 52.94          | 239            | 292          | Vertical |
| 3               | 3692.6846      | 48.60             | -44.50         | 29.30        | -61.86         | -13.00         | 48.86          | 266            | 118          | Vertical |
| 4               | 5410.5705      | 46.92             | -41.98         | 32.44        | -57.88         | -13.00         | 44.88          | 169            | 0            | Vertical |
| 5               | 7744.8372      | 44.97             | -37.71         | 36.44        | -51.56         | -13.00         | 38.56          | 264            | 161          | Vertical |
| 6               | 9892.5446      | 42.92             | -35.02         | 38.54        | -48.82         | -13.00         | 35.82          | 236            | 348          | Vertical |



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Test Band = LTE\_12 ANT 13\_10MHz TM1

Test Channel = MCH

| Final Data List |                |                   |                |              |                |                |                |                |              |            |
|-----------------|----------------|-------------------|----------------|--------------|----------------|----------------|----------------|----------------|--------------|------------|
| NO.             | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF<br>[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
| 1               | 1406.3008      | 52.55             | -47.40         | 24.95        | -65.16         | -13.00         | 52.16          | 265            | 270          | Horizontal |
| 2               | 2109.1386      | 51.04             | -46.88         | 26.75        | -64.35         | -13.00         | 51.35          | 169            | 20           | Horizontal |
| 3               | 3719.986       | 48.60             | -44.59         | 29.42        | -61.83         | -13.00         | 48.83          | 164            | 311          | Horizontal |
| 4               | 5704.5852      | 47.18             | -41.15         | 32.50        | -56.73         | -13.00         | 43.73          | 226            | 333          | Horizontal |
| 5               | 7443.4722      | 45.12             | -38.28         | 36.79        | -51.63         | -13.00         | 38.63          | 263            | 160          | Horizontal |
| 6               | 9896.0448      | 42.81             | -34.99         | 38.57        | -48.87         | -13.00         | 35.87          | 218            | 306          | Horizontal |

| Final Data List |                |                   |                |              |                |                |                |                |              |          |
|-----------------|----------------|-------------------|----------------|--------------|----------------|----------------|----------------|----------------|--------------|----------|
| NO.             | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF<br>[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
| 1               | 1406.3008      | 49.85             | -47.40         | 24.95        | -67.86         | -13.00         | 54.86          | 216            | 23           | Vertical |
| 2               | 2109.3887      | 48.11             | -46.88         | 26.74        | -67.29         | -13.00         | 54.29          | 400            | 100          | Vertical |
| 3               | 3108.8554      | 47.82             | -45.36         | 28.86        | -63.94         | -13.00         | 50.94          | 336            | 75           | Vertical |
| 4               | 4509.2755      | 48.15             | -42.99         | 29.62        | -60.48         | -13.00         | 47.48          | 226            | 32           | Vertical |
| 5               | 7192.1596      | 44.95             | -38.73         | 36.57        | -52.47         | -13.00         | 39.47          | 254            | 27           | Vertical |
| 6               | 9895.6948      | 43.20             | -34.99         | 38.57        | -48.48         | -13.00         | 35.48          | 219            | 182          | Vertical |



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Test Band = LTE\_12 ANT 13\_10MHz TM1

Test Channel = HCH

| Final Data List |                |                   |                |              |                |                |                |                |              |            |
|-----------------|----------------|-------------------|----------------|--------------|----------------|----------------|----------------|----------------|--------------|------------|
| NO.             | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF<br>[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
| 1               | 1413.3017      | 54.38             | -47.42         | 25.01        | -63.29         | -13.00         | 50.29          | 361            | 260          | Horizontal |
| 2               | 2119.89        | 50.20             | -46.90         | 26.68        | -65.28         | -13.00         | 52.28          | 208            | 2            | Horizontal |
| 3               | 3612.1806      | 48.78             | -44.37         | 29.00        | -61.85         | -13.00         | 48.85          | 264            | 284          | Horizontal |
| 4               | 5675.1838      | 47.05             | -41.21         | 32.50        | -56.92         | -13.00         | 43.92          | 216            | 310          | Horizontal |
| 5               | 7867.3434      | 44.56             | -37.62         | 36.70        | -51.62         | -13.00         | 38.62          | 299            | 220          | Horizontal |
| 6               | 9917.7459      | 43.44             | -35.43         | 38.62        | -48.63         | -13.00         | 35.63          | 168            | 2            | Horizontal |

| Final Data List |                |                   |                |              |                |                |                |                |              |          |
|-----------------|----------------|-------------------|----------------|--------------|----------------|----------------|----------------|----------------|--------------|----------|
| NO.             | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF<br>[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
| 1               | 1413.0516      | 51.93             | -47.42         | 25.00        | -65.75         | -13.00         | 52.75          | 165            | 21           | Vertical |
| 2               | 2018.8774      | 48.30             | -46.92         | 26.42        | -67.46         | -13.00         | 54.46          | 199            | 12           | Vertical |
| 3               | 3121.4561      | 47.98             | -45.25         | 28.81        | -63.72         | -13.00         | 50.72          | 264            | 246          | Vertical |
| 4               | 3917.0459      | 48.40             | -44.19         | 29.77        | -61.28         | -13.00         | 48.28          | 223            | 188          | Vertical |
| 5               | 6096.6048      | 46.42             | -40.56         | 33.41        | -55.99         | -13.00         | 42.99          | 308            | 353          | Vertical |
| 6               | 7718.9359      | 44.50             | -37.62         | 36.65        | -51.73         | -13.00         | 38.73          | 164            | 315          | Vertical |



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Test Band = LTE\_12 ANT 31\_10MHz TM1

Test Channel = LCH

| Final Data List |                |                   |                |              |                |                |                |                |              |            |
|-----------------|----------------|-------------------|----------------|--------------|----------------|----------------|----------------|----------------|--------------|------------|
| NO.             | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF<br>[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
| 1               | 1399.0499      | 50.34             | -47.39         | 24.90        | -67.41         | -13.00         | 54.41          | 333            | 258          | Horizontal |
| 2               | 2410.1763      | 48.64             | -46.62         | 27.44        | -65.80         | -13.00         | 52.80          | 114            | 12           | Horizontal |
| 3               | 3129.1565      | 47.79             | -45.19         | 28.78        | -63.88         | -13.00         | 50.88          | 276            | 23           | Horizontal |
| 4               | 3919.146       | 48.77             | -44.19         | 29.78        | -60.90         | -13.00         | 47.90          | 386            | 91           | Horizontal |
| 5               | 6094.5047      | 46.71             | -40.58         | 33.41        | -55.72         | -13.00         | 42.72          | 265            | 201          | Horizontal |
| 6               | 8963.9482      | 43.95             | -36.10         | 36.84        | -50.57         | -13.00         | 37.57          | 285            | 112          | Horizontal |

| Final Data List |                |                   |                |              |                |                |                |                |              |          |
|-----------------|----------------|-------------------|----------------|--------------|----------------|----------------|----------------|----------------|--------------|----------|
| NO.             | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF<br>[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
| 1               | 1399.0499      | 49.87             | -47.39         | 24.90        | -67.88         | -13.00         | 54.88          | 113            | 31           | Vertical |
| 2               | 2002.8754      | 48.16             | -46.93         | 26.49        | -67.54         | -13.00         | 54.54          | 279            | 126          | Vertical |
| 3               | 3063.3532      | 48.00             | -45.28         | 28.83        | -63.71         | -13.00         | 50.71          | 170            | 159          | Vertical |
| 4               | 3982.4991      | 48.56             | -44.18         | 29.84        | -61.04         | -13.00         | 48.04          | 174            | 154          | Vertical |
| 5               | 5511.3756      | 47.19             | -41.80         | 32.35        | -57.52         | -13.00         | 44.52          | 233            | 206          | Vertical |
| 6               | 7848.0924      | 44.78             | -37.70         | 36.79        | -51.39         | -13.00         | 38.39          | 295            | 23           | Vertical |



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Test Band = LTE\_12 ANT 31\_10MHz TM1

Test Channel = MCH

| Final Data List |                |                   |                |              |                |                |                |                |              |            |
|-----------------|----------------|-------------------|----------------|--------------|----------------|----------------|----------------|----------------|--------------|------------|
| NO.             | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF<br>[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
| 1               | 1397.7997      | 49.03             | -47.40         | 24.91        | -68.72         | -13.00         | 55.72          | 336            | 293          | Horizontal |
| 2               | 2109.3887      | 49.15             | -46.88         | 26.74        | -66.25         | -13.00         | 53.25          | 109            | 39           | Horizontal |
| 3               | 3134.4067      | 47.73             | -45.14         | 28.76        | -63.91         | -13.00         | 50.91          | 154            | 306          | Horizontal |
| 4               | 3933.8467      | 48.58             | -44.19         | 29.84        | -61.03         | -13.00         | 48.03          | 141            | 328          | Horizontal |
| 5               | 5601.3301      | 47.69             | -41.44         | 32.60        | -56.41         | -13.00         | 43.41          | 156            | 296          | Horizontal |
| 6               | 7962.1981      | 44.97             | -37.34         | 36.40        | -51.23         | -13.00         | 38.23          | 253            | 238          | Horizontal |

| Final Data List |                |                   |                |              |                |                |                |                |              |          |
|-----------------|----------------|-------------------|----------------|--------------|----------------|----------------|----------------|----------------|--------------|----------|
| NO.             | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF<br>[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
| 1               | 1440.055       | 48.61             | -47.48         | 25.22        | -68.91         | -13.00         | 55.91          | 144            | 179          | Vertical |
| 2               | 2414.1768      | 48.81             | -46.62         | 27.46        | -65.61         | -13.00         | 52.61          | 261            | 266          | Vertical |
| 3               | 3719.286       | 48.82             | -44.59         | 29.42        | -61.61         | -13.00         | 48.61          | 295            | 313          | Vertical |
| 4               | 5134.0567      | 48.04             | -42.53         | 31.70        | -58.05         | -13.00         | 45.05          | 226            | 29           | Vertical |
| 5               | 7424.5712      | 45.19             | -38.28         | 36.75        | -51.60         | -13.00         | 38.60          | 203            | 87           | Vertical |
| 6               | 9913.8957      | 43.71             | -35.33         | 38.61        | -48.27         | -13.00         | 35.27          | 215            | 0            | Vertical |



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Test Band = LTE\_12 ANT 31\_10MHz\_TM1

Test Channel = HCH

| Final Data List |                |                   |                |              |                |                |                |                |              |            |
|-----------------|----------------|-------------------|----------------|--------------|----------------|----------------|----------------|----------------|--------------|------------|
| NO.             | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF<br>[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
| 1               | 1648.081       | 48.48             | -47.52         | 25.48        | -68.82         | -13.00         | 55.82          | 219            | 314          | Horizontal |
| 2               | 2119.64        | 49.02             | -46.90         | 26.68        | -66.46         | -13.00         | 53.46          | 367            | 9            | Horizontal |
| 3               | 3084.0042      | 47.88             | -45.36         | 28.87        | -63.87         | -13.00         | 50.87          | 265            | 40           | Horizontal |
| 4               | 4812.3906      | 47.77             | -42.94         | 30.75        | -59.68         | -13.00         | 46.68          | 314            | 24           | Horizontal |
| 5               | 6705.6353      | 45.72             | -39.57         | 35.11        | -54.00         | -13.00         | 41.00          | 131            | 108          | Horizontal |
| 6               | 9909.6955      | 42.86             | -35.21         | 38.61        | -49.00         | -13.00         | 36.00          | 342            | 349          | Horizontal |

| Final Data List |                |                   |                |              |                |                |                |                |              |          |
|-----------------|----------------|-------------------|----------------|--------------|----------------|----------------|----------------|----------------|--------------|----------|
| NO.             | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF<br>[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
| 1               | 1674.3343      | 48.83             | -47.48         | 25.31        | -68.60         | -13.00         | 55.60          | 155            | 96           | Vertical |
| 2               | 2328.6661      | 47.97             | -46.63         | 27.39        | -66.53         | -13.00         | 53.53          | 302            | 312          | Vertical |
| 3               | 3202.3101      | 47.65             | -44.62         | 28.41        | -63.82         | -13.00         | 50.82          | 156            | 338          | Vertical |
| 4               | 4800.14        | 47.75             | -42.95         | 30.80        | -59.66         | -13.00         | 46.66          | 137            | 69           | Vertical |
| 5               | 7731.5366      | 44.94             | -37.67         | 36.55        | -51.44         | -13.00         | 38.44          | 288            | 5            | Vertical |
| 6               | 9889.7445      | 42.88             | -35.04         | 38.52        | -48.90         | -13.00         | 35.90          | 239            | 211          | Vertical |



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**Test on the worst case:**

**Test Band = \_LTE Band 12 ANT31\_10MHz \_TM1**

**Test Channel = MCH**

| Final Data List |                |                   |                |          |                |                |                |            |
|-----------------|----------------|-------------------|----------------|----------|----------------|----------------|----------------|------------|
| NO.             | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity   |
| 1               | 1403           | 54.67             | -53.68         | 25.79    | -68.48         | -13.00         | 55.48          | Horizontal |
| 2               | 5130           | 51.97             | -44.21         | 33.56    | -53.94         | -13.00         | 40.94          | Horizontal |
| 3               | 6098.5         | 50.29             | -43.89         | 34.50    | -54.36         | -13.00         | 41.36          | Horizontal |
| 4               | 7036           | 50.41             | -43.61         | 36.36    | -52.10         | -13.00         | 39.10          | Horizontal |
| 5               | 7587.5         | 49.97             | -42.05         | 36.73    | -50.61         | -13.00         | 37.61          | Horizontal |
| 6               | 9921.5         | 45.87             | -39.67         | 38.97    | -50.09         | -13.00         | 37.09          | Horizontal |

| Final Data List |                |                   |                |          |                |                |                |          |
|-----------------|----------------|-------------------|----------------|----------|----------------|----------------|----------------|----------|
| NO.             | Freq.<br>[MHz] | Reading<br>[dBμV] | Factor<br>[dB] | AF[dB/m] | Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] | Polarity |
| 1               | 1249           | 54.62             | -54.06         | 25.70    | -69.00         | -13.00         | 56.00          | Vertical |
| 2               | 3299           | 52.82             | -49.72         | 30.70    | -61.46         | -13.00         | 48.46          | Vertical |
| 3               | 5123.5         | 52.09             | -44.17         | 33.55    | -53.79         | -13.00         | 40.79          | Vertical |
| 4               | 6190           | 51.17             | -43.87         | 34.22    | -53.74         | -13.00         | 40.74          | Vertical |
| 5               | 7581           | 49.78             | -42.06         | 36.74    | -50.80         | -13.00         | 37.80          | Vertical |
| 6               | 9930.5         | 45.87             | -39.64         | 38.92    | -50.11         | -13.00         | 37.11          | Vertical |

**Remark:**

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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## Frequency Stability

### Test Result

| Voltage |           |            |         |              |               |                  |                |                 |         |
|---------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band    | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
| Band12  | 10MHz     | QPSK       | 23095   | 50RB#0       | VN            | NT               | 2.40           | 0.003392        | PASS    |
| Band12  | 10MHz     | QPSK       | 23095   | 50RB#0       | VL            | NT               | 2.40           | 0.003392        | PASS    |
| Band12  | 10MHz     | QPSK       | 23095   | 50RB#0       | VH            | NT               | -0.50          | -0.000707       | PASS    |

| Temperature |           |            |         |              |               |                  |                |                 |         |
|-------------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band        | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
| Band12      | 10MHz     | QPSK       | 23095   | 50RB#0       | NV            | -30              | 1.70           | 0.002403        | PASS    |
| Band12      | 10MHz     | QPSK       | 23095   | 50RB#0       | NV            | -20              | -1.20          | -0.001696       | PASS    |
| Band12      | 10MHz     | QPSK       | 23095   | 50RB#0       | NV            | -10              | 1.10           | 0.001555        | PASS    |
| Band12      | 10MHz     | QPSK       | 23095   | 50RB#0       | NV            | 0                | 1.10           | 0.001555        | PASS    |
| Band12      | 10MHz     | QPSK       | 23095   | 50RB#0       | NV            | 10               | 0.50           | 0.000707        | PASS    |
| Band12      | 10MHz     | QPSK       | 23095   | 50RB#0       | NV            | 20               | 1.70           | 0.002403        | PASS    |
| Band12      | 10MHz     | QPSK       | 23095   | 50RB#0       | NV            | 30               | 0.80           | 0.001131        | PASS    |
| Band12      | 10MHz     | QPSK       | 23095   | 50RB#0       | NV            | 40               | -0.30          | -0.000424       | PASS    |
| Band12      | 10MHz     | QPSK       | 23095   | 50RB#0       | NV            | 50               | 0.80           | 0.001131        | PASS    |

---End of Attachment---



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