

# Appendix B

## E-UTRA Band 12



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## 1. Effective (Isotropic) Radiated Power

### 1.1. Test Result

| BAND   | Bandwidth | Modulation | Channel | RB Configuration | Conducted Power(dBm) | ERP (dBm) | Limit (dBm) | Verdict |
|--------|-----------|------------|---------|------------------|----------------------|-----------|-------------|---------|
| Band12 | 1.4MHz    | QPSK       | 23017   | 1RB#0            | 23.06                | 16.21     | 34.77       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23017   | 1RB#2            | 23.59                | 16.74     | 34.77       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23017   | 1RB#5            | 23.61                | 16.76     | 34.77       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23017   | 3RB#0            | 23.40                | 16.55     | 34.77       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23017   | 3RB#1            | 23.56                | 16.71     | 34.77       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23017   | 3RB#3            | 23.68                | 16.83     | 34.77       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23017   | 6RB#0            | 22.45                | 15.60     | 34.77       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 1RB#0            | 23.40                | 16.55     | 34.77       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 1RB#2            | 23.31                | 16.46     | 34.77       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 1RB#5            | 23.16                | 16.31     | 34.77       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 3RB#0            | 23.56                | 16.71     | 34.77       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 3RB#1            | 23.49                | 16.64     | 34.77       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 3RB#3            | 23.61                | 16.76     | 34.77       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 6RB#0            | 22.61                | 15.76     | 34.77       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 1RB#0            | 23.39                | 16.54     | 34.77       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 1RB#2            | 23.24                | 16.39     | 34.77       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 1RB#5            | 23.22                | 16.37     | 34.77       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 3RB#0            | 23.40                | 16.55     | 34.77       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 3RB#1            | 23.27                | 16.42     | 34.77       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 3RB#3            | 23.43                | 16.58     | 34.77       | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 6RB#0            | 22.42                | 15.57     | 34.77       | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 1RB#0            | 21.95                | 15.10     | 34.77       | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 1RB#2            | 22.09                | 15.24     | 34.77       | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 1RB#5            | 21.95                | 15.10     | 34.77       | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 3RB#0            | 22.49                | 15.64     | 34.77       | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 3RB#1            | 22.64                | 15.79     | 34.77       | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 3RB#3            | 22.57                | 15.72     | 34.77       | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 6RB#0            | 21.43                | 14.58     | 34.77       | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 1RB#0            | 21.96                | 15.11     | 34.77       | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 1RB#2            | 22.13                | 15.28     | 34.77       | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 1RB#5            | 22.02                | 15.17     | 34.77       | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 3RB#0            | 22.69                | 15.84     | 34.77       | PASS    |

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|        |        |       |       |        |       |       |       |      |
|--------|--------|-------|-------|--------|-------|-------|-------|------|
| Band12 | 1.4MHz | 16QAM | 23095 | 3RB#1  | 22.62 | 15.77 | 34.77 | PASS |
| Band12 | 1.4MHz | 16QAM | 23095 | 3RB#3  | 22.70 | 15.85 | 34.77 | PASS |
| Band12 | 1.4MHz | 16QAM | 23095 | 6RB#0  | 21.29 | 14.44 | 34.77 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 1RB#0  | 21.91 | 15.06 | 34.77 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 1RB#2  | 22.02 | 15.17 | 34.77 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 1RB#5  | 22.21 | 15.36 | 34.77 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 3RB#0  | 22.58 | 15.73 | 34.77 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 3RB#1  | 22.59 | 15.74 | 34.77 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 3RB#3  | 22.50 | 15.65 | 34.77 | PASS |
| Band12 | 1.4MHz | 16QAM | 23173 | 6RB#0  | 21.69 | 14.84 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK  | 23025 | 1RB#0  | 23.41 | 16.56 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK  | 23025 | 1RB#8  | 24.02 | 17.17 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK  | 23025 | 1RB#14 | 23.76 | 16.91 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK  | 23025 | 8RB#0  | 22.01 | 15.16 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK  | 23025 | 8RB#4  | 22.81 | 15.96 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK  | 23025 | 8RB#7  | 22.63 | 15.78 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK  | 23025 | 15RB#0 | 22.42 | 15.57 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK  | 23095 | 1RB#0  | 23.64 | 16.79 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK  | 23095 | 1RB#8  | 23.00 | 16.15 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK  | 23095 | 1RB#14 | 23.19 | 16.34 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK  | 23095 | 8RB#0  | 22.65 | 15.80 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK  | 23095 | 8RB#4  | 22.44 | 15.59 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK  | 23095 | 8RB#7  | 22.47 | 15.62 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK  | 23095 | 15RB#0 | 22.53 | 15.68 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK  | 23165 | 1RB#0  | 23.66 | 16.81 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK  | 23165 | 1RB#8  | 23.24 | 16.39 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK  | 23165 | 1RB#14 | 23.11 | 16.26 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK  | 23165 | 8RB#0  | 22.82 | 15.97 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK  | 23165 | 8RB#4  | 22.28 | 15.43 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK  | 23165 | 8RB#7  | 22.29 | 15.44 | 34.77 | PASS |
| Band12 | 3MHz   | QPSK  | 23165 | 15RB#0 | 22.63 | 15.78 | 34.77 | PASS |
| Band12 | 3MHz   | 16QAM | 23025 | 1RB#0  | 22.11 | 15.26 | 34.77 | PASS |
| Band12 | 3MHz   | 16QAM | 23025 | 1RB#8  | 21.87 | 15.02 | 34.77 | PASS |
| Band12 | 3MHz   | 16QAM | 23025 | 1RB#14 | 21.99 | 15.14 | 34.77 | PASS |
| Band12 | 3MHz   | 16QAM | 23025 | 8RB#0  | 21.28 | 14.43 | 34.77 | PASS |
| Band12 | 3MHz   | 16QAM | 23025 | 8RB#4  | 21.46 | 14.61 | 34.77 | PASS |
| Band12 | 3MHz   | 16QAM | 23025 | 8RB#7  | 21.30 | 14.45 | 34.77 | PASS |
| Band12 | 3MHz   | 16QAM | 23025 | 15RB#0 | 21.69 | 14.84 | 34.77 | PASS |

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|        |      |       |       |         |       |       |       |      |
|--------|------|-------|-------|---------|-------|-------|-------|------|
| Band12 | 3MHz | 16QAM | 23095 | 1RB#0   | 22.52 | 15.67 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 1RB#8   | 22.03 | 15.18 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 1RB#14  | 21.94 | 15.09 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 8RB#0   | 21.29 | 14.44 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 8RB#4   | 21.31 | 14.46 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 8RB#7   | 21.22 | 14.37 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23095 | 15RB#0  | 21.46 | 14.61 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 1RB#0   | 21.93 | 15.08 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 1RB#8   | 21.89 | 15.04 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 1RB#14  | 22.21 | 15.36 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 8RB#0   | 21.40 | 14.55 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 8RB#4   | 21.74 | 14.89 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 8RB#7   | 21.39 | 14.54 | 34.77 | PASS |
| Band12 | 3MHz | 16QAM | 23165 | 15RB#0  | 21.51 | 14.66 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23035 | 1RB#0   | 23.25 | 16.40 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23035 | 1RB#12  | 24.28 | 17.43 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23035 | 1RB#24  | 23.39 | 16.54 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23035 | 12RB#0  | 22.36 | 15.51 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23035 | 12RB#6  | 23.01 | 16.16 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23035 | 12RB#13 | 22.56 | 15.71 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23035 | 25RB#0  | 22.49 | 15.64 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23095 | 1RB#0   | 23.67 | 16.82 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23095 | 1RB#12  | 22.98 | 16.13 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23095 | 1RB#24  | 23.45 | 16.60 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23095 | 12RB#0  | 22.54 | 15.69 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23095 | 12RB#6  | 22.32 | 15.47 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23095 | 12RB#13 | 22.40 | 15.55 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23095 | 25RB#0  | 22.55 | 15.70 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23155 | 1RB#0   | 23.35 | 16.50 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23155 | 1RB#12  | 23.89 | 17.04 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23155 | 1RB#24  | 22.72 | 15.87 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23155 | 12RB#0  | 22.76 | 15.91 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23155 | 12RB#6  | 22.53 | 15.68 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23155 | 12RB#13 | 22.11 | 15.26 | 34.77 | PASS |
| Band12 | 5MHz | QPSK  | 23155 | 25RB#0  | 22.56 | 15.71 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM | 23035 | 1RB#0   | 21.90 | 15.05 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM | 23035 | 1RB#12  | 22.65 | 15.80 | 34.77 | PASS |
| Band12 | 5MHz | 16QAM | 23035 | 1RB#24  | 21.98 | 15.13 | 34.77 | PASS |

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|        |       |       |       |         |       |       |       |      |
|--------|-------|-------|-------|---------|-------|-------|-------|------|
| Band12 | 5MHz  | 16QAM | 23035 | 12RB#0  | 21.48 | 14.63 | 34.77 | PASS |
| Band12 | 5MHz  | 16QAM | 23035 | 12RB#6  | 21.40 | 14.55 | 34.77 | PASS |
| Band12 | 5MHz  | 16QAM | 23035 | 12RB#13 | 21.33 | 14.48 | 34.77 | PASS |
| Band12 | 5MHz  | 16QAM | 23035 | 25RB#0  | 21.56 | 14.71 | 34.77 | PASS |
| Band12 | 5MHz  | 16QAM | 23095 | 1RB#0   | 22.18 | 15.33 | 34.77 | PASS |
| Band12 | 5MHz  | 16QAM | 23095 | 1RB#12  | 22.25 | 15.40 | 34.77 | PASS |
| Band12 | 5MHz  | 16QAM | 23095 | 1RB#24  | 21.98 | 15.13 | 34.77 | PASS |
| Band12 | 5MHz  | 16QAM | 23095 | 12RB#0  | 21.30 | 14.45 | 34.77 | PASS |
| Band12 | 5MHz  | 16QAM | 23095 | 12RB#6  | 21.26 | 14.41 | 34.77 | PASS |
| Band12 | 5MHz  | 16QAM | 23095 | 12RB#13 | 21.47 | 14.62 | 34.77 | PASS |
| Band12 | 5MHz  | 16QAM | 23095 | 25RB#0  | 21.40 | 14.55 | 34.77 | PASS |
| Band12 | 5MHz  | 16QAM | 23155 | 1RB#0   | 21.90 | 15.05 | 34.77 | PASS |
| Band12 | 5MHz  | 16QAM | 23155 | 1RB#12  | 22.09 | 15.24 | 34.77 | PASS |
| Band12 | 5MHz  | 16QAM | 23155 | 1RB#24  | 21.72 | 14.87 | 34.77 | PASS |
| Band12 | 5MHz  | 16QAM | 23155 | 12RB#0  | 21.51 | 14.66 | 34.77 | PASS |
| Band12 | 5MHz  | 16QAM | 23155 | 12RB#6  | 21.53 | 14.68 | 34.77 | PASS |
| Band12 | 5MHz  | 16QAM | 23155 | 12RB#13 | 21.34 | 14.49 | 34.77 | PASS |
| Band12 | 5MHz  | 16QAM | 23155 | 25RB#0  | 21.47 | 14.62 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23060 | 1RB#0   | 23.11 | 16.26 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23060 | 1RB#24  | 23.88 | 17.03 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23060 | 1RB#49  | 22.53 | 15.68 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23060 | 25RB#0  | 23.16 | 16.31 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23060 | 25RB#12 | 22.52 | 15.67 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23060 | 25RB#25 | 21.93 | 15.08 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23060 | 50RB#0  | 22.72 | 15.87 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23095 | 1RB#0   | 23.73 | 16.88 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23095 | 1RB#24  | 22.77 | 15.92 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23095 | 1RB#49  | 23.70 | 16.85 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23095 | 25RB#0  | 22.49 | 15.64 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23095 | 25RB#12 | 22.18 | 15.33 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23095 | 25RB#25 | 22.44 | 15.59 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23095 | 50RB#0  | 22.61 | 15.76 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 1RB#0   | 23.23 | 16.38 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 1RB#24  | 23.65 | 16.80 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 1RB#49  | 22.87 | 16.02 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 25RB#0  | 22.49 | 15.64 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 25RB#12 | 22.83 | 15.98 | 34.77 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 25RB#25 | 22.65 | 15.80 | 34.77 | PASS |

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|        |       |       |       |         |       |       |       |      |
|--------|-------|-------|-------|---------|-------|-------|-------|------|
| Band12 | 10MHz | QPSK  | 23130 | 50RB#0  | 22.37 | 15.52 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 1RB#0   | 21.96 | 15.11 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 1RB#24  | 22.18 | 15.33 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 1RB#49  | 21.96 | 15.11 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 25RB#0  | 21.59 | 14.74 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 25RB#12 | 21.45 | 14.60 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 25RB#25 | 21.57 | 14.72 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 50RB#0  | 21.57 | 14.72 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 1RB#0   | 22.41 | 15.56 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 1RB#24  | 22.24 | 15.39 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 1RB#49  | 22.21 | 15.36 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 25RB#0  | 21.46 | 14.61 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 25RB#12 | 21.31 | 14.46 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 25RB#25 | 21.35 | 14.50 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 50RB#0  | 21.47 | 14.62 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 1RB#0   | 22.04 | 15.19 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 1RB#24  | 21.93 | 15.08 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 1RB#49  | 22.11 | 15.26 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 25RB#0  | 21.42 | 14.57 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 25RB#12 | 21.61 | 14.76 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 25RB#25 | 21.69 | 14.84 | 34.77 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 50RB#0  | 21.41 | 14.56 | 34.77 | PASS |

Remark:

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

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

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

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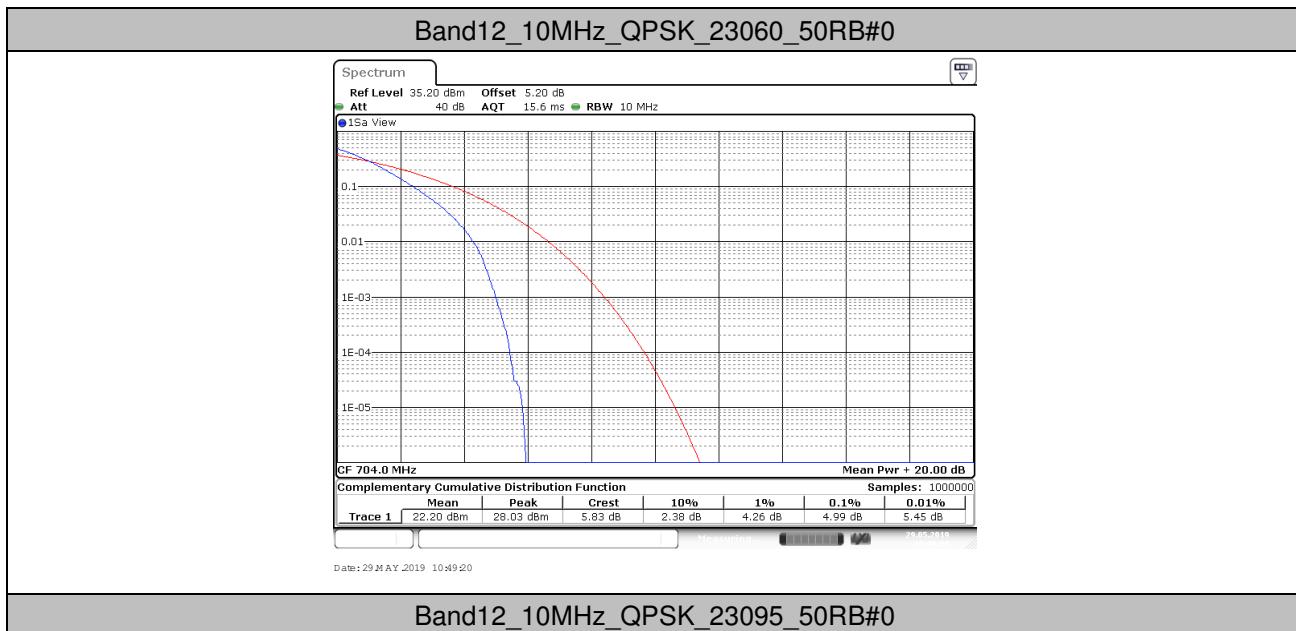
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## 2. Peak-to-Average Ratio(CCDF)

### 2.1. Test Result

| BAND   | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band12 | 10MHz     | QPSK       | 23060   | 50RB#0           | 4.99       | 13        | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0           | 5.04       | 13        | PASS    |
| Band12 | 10MHz     | QPSK       | 23130   | 50RB#0           | 5.13       | 13        | PASS    |
| Band12 | 10MHz     | 16QAM      | 23060   | 50RB#0           | 6.03       | 13        | PASS    |
| Band12 | 10MHz     | 16QAM      | 23095   | 50RB#0           | 6.03       | 13        | PASS    |
| Band12 | 10MHz     | 16QAM      | 23130   | 50RB#0           | 6.06       | 13        | PASS    |

### 2.2. Test Plots

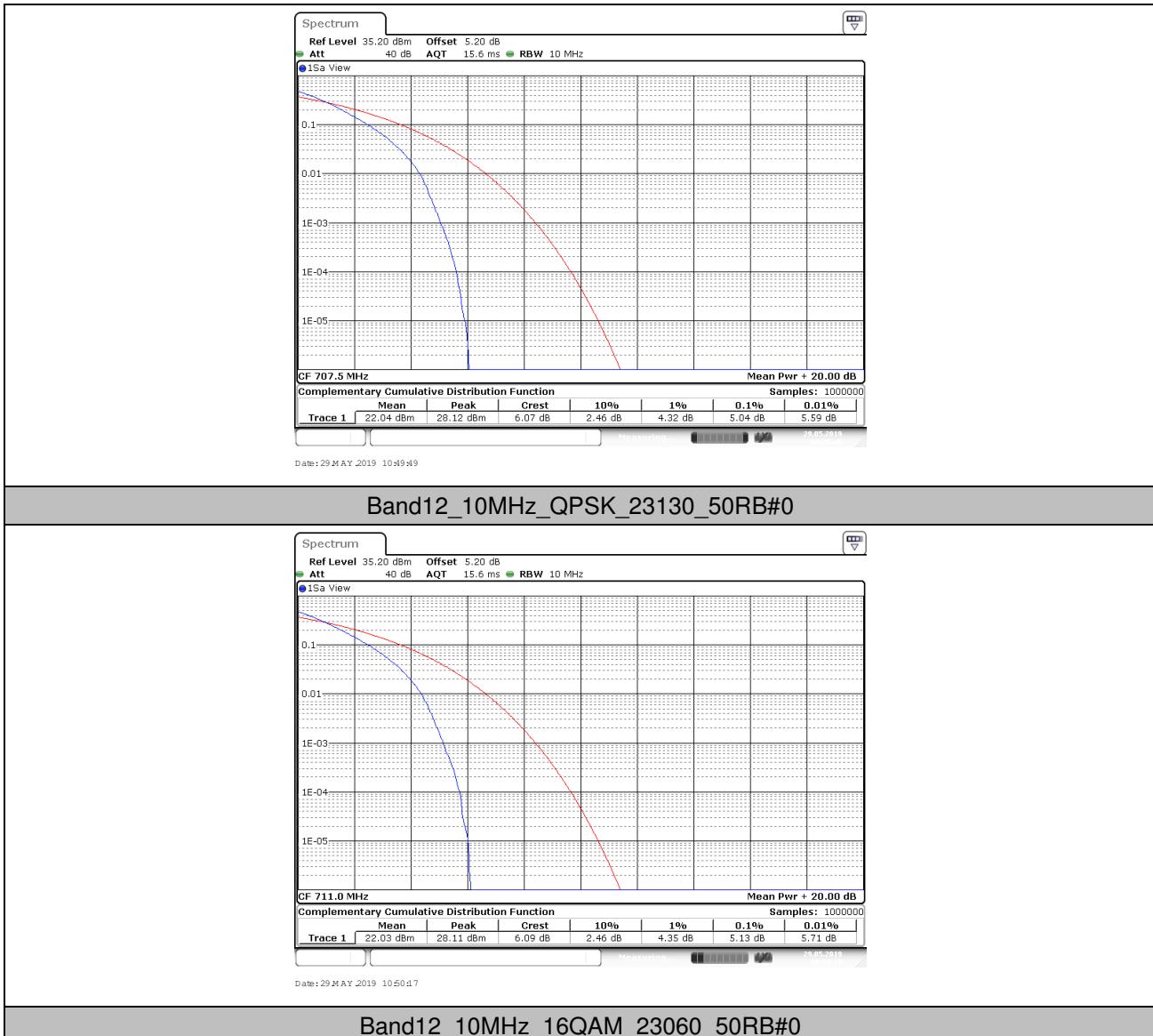


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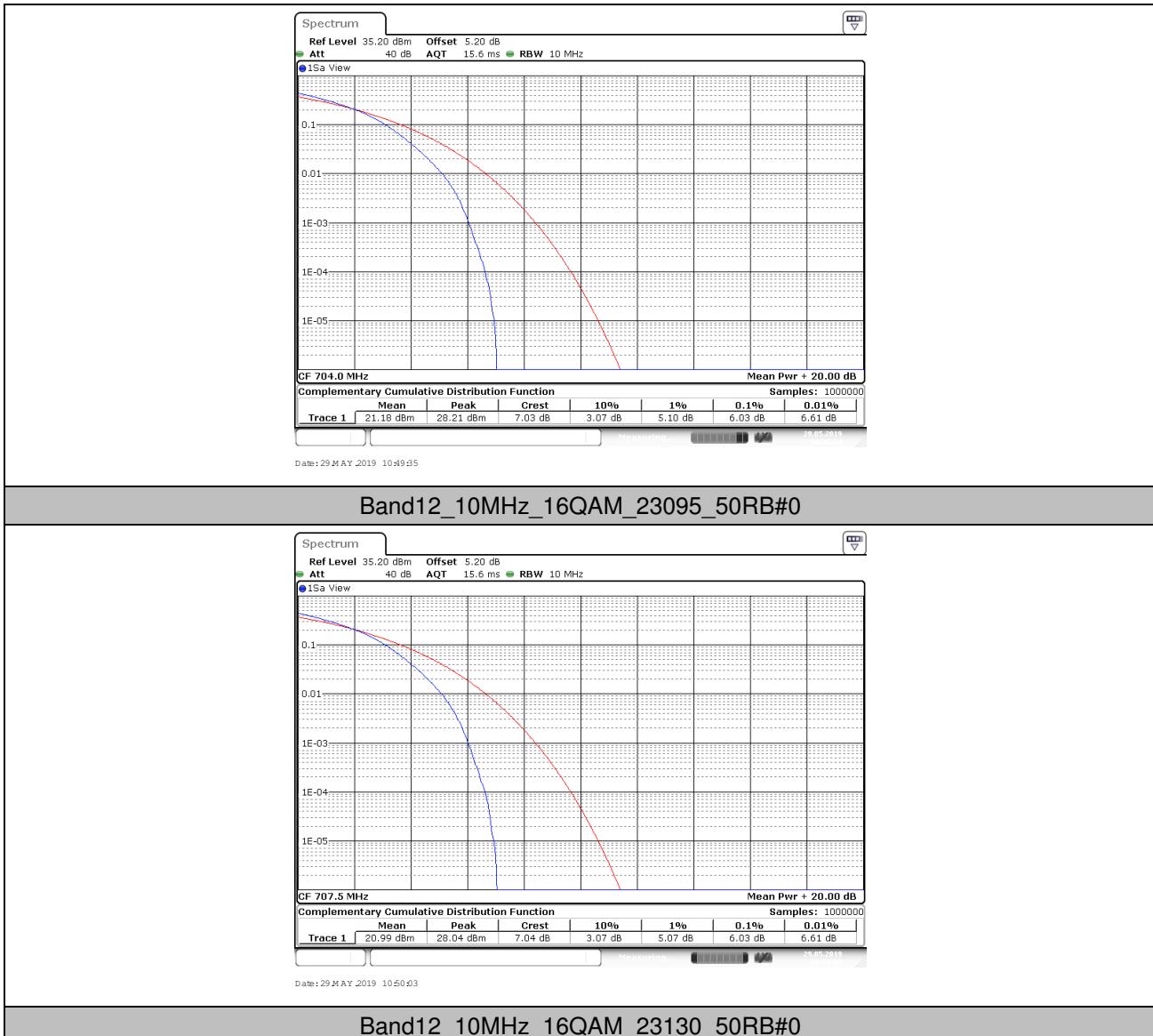
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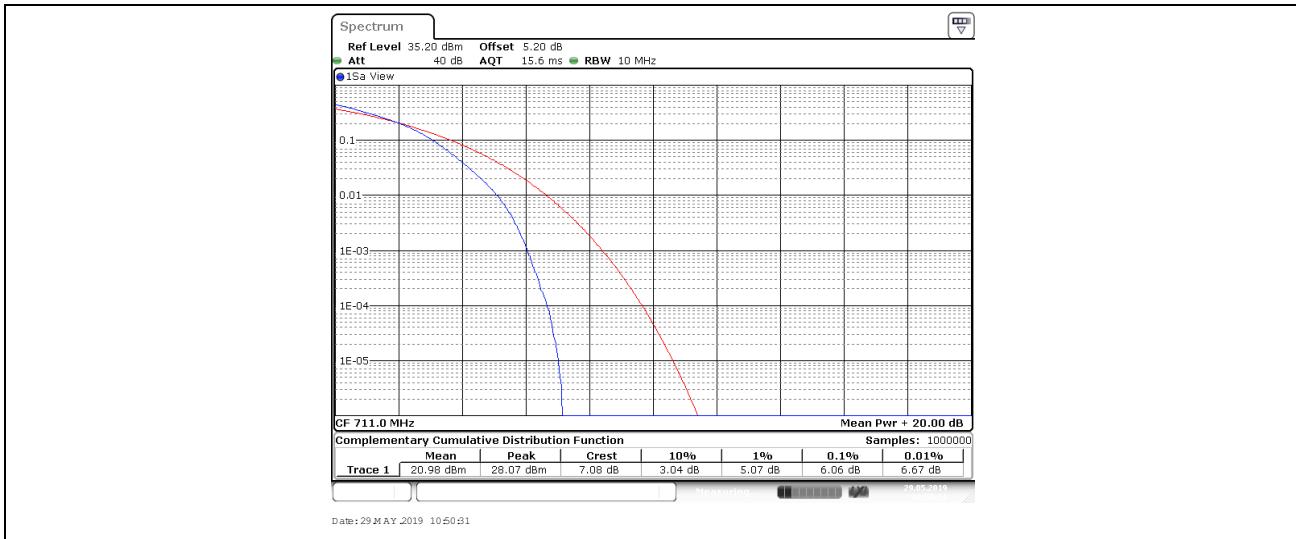
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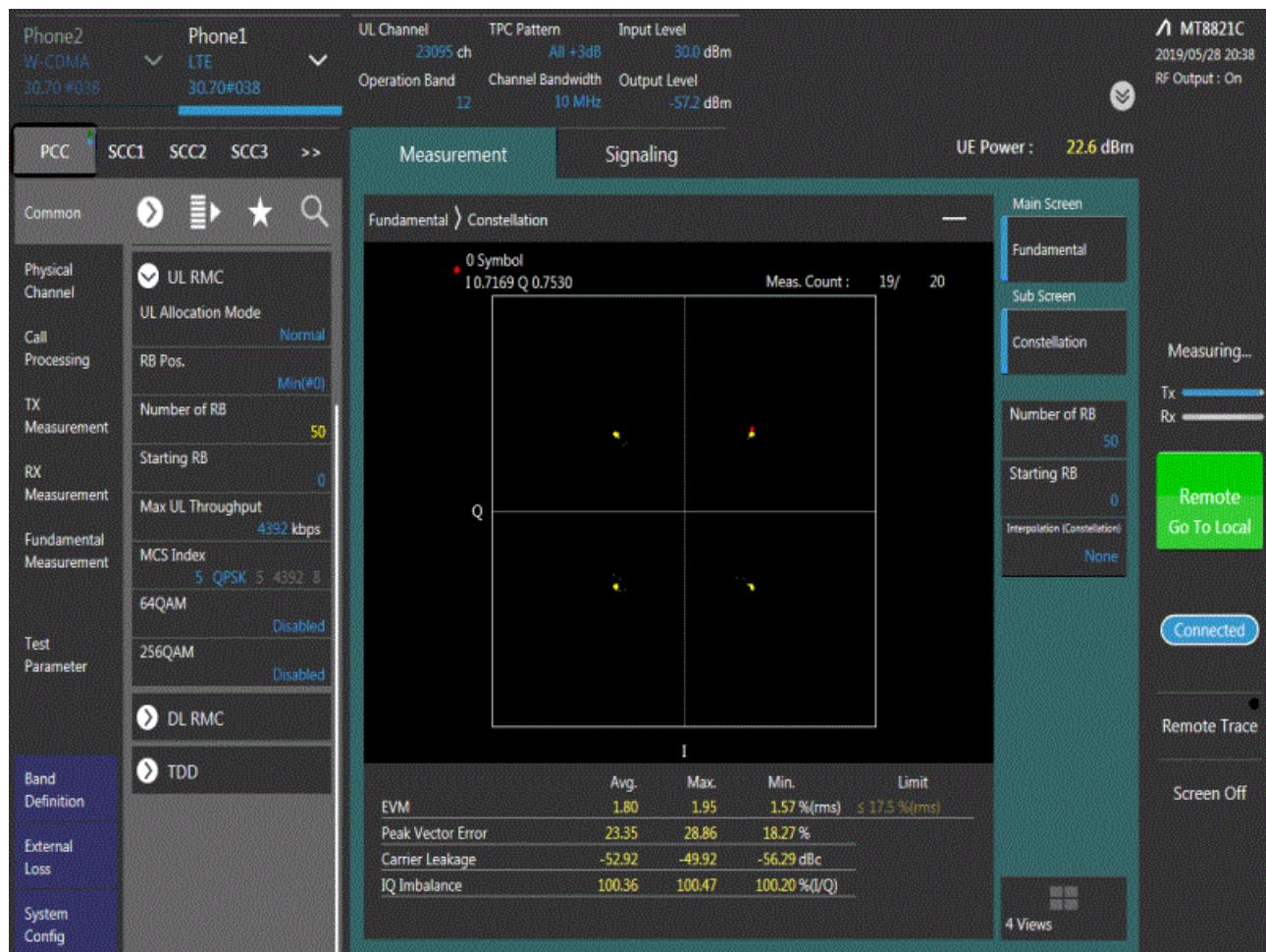
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### 3. Modulation Characteristics

#### 3.1. Test BAND = LTE Band 12

#### 3.2. Test Mode = LTE /TM1 10MHz

##### 3.2.1. Test Channel = MCH



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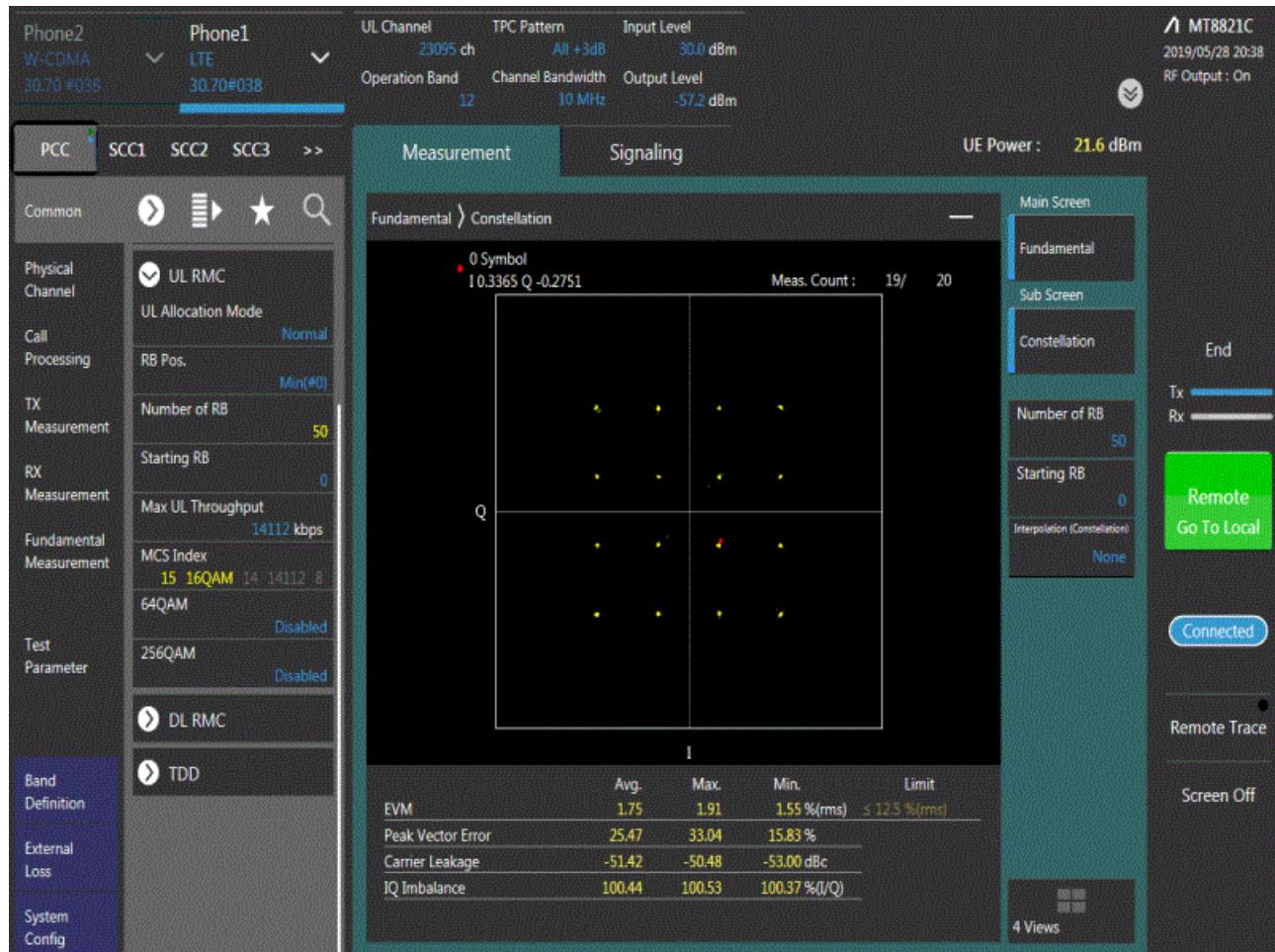
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### 3.3. Test Mode = LTE /TM2 10MHz

#### 3.3.1. Test Channel = MCH



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## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

| BAND   | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|--------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band12 | 1.4MHz    | QPSK       | 23017   | 6RB#0            | 1.094                    | 1.287                | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23095   | 6RB#0            | 1.091                    | 1.287                | PASS    |
| Band12 | 1.4MHz    | QPSK       | 23173   | 6RB#0            | 1.097                    | 1.293                | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23017   | 6RB#0            | 1.091                    | 1.281                | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23095   | 6RB#0            | 1.091                    | 1.281                | PASS    |
| Band12 | 1.4MHz    | 16QAM      | 23173   | 6RB#0            | 1.088                    | 1.278                | PASS    |
| Band12 | 3MHz      | QPSK       | 23025   | 15RB#0           | 2.697                    | 2.994                | PASS    |
| Band12 | 3MHz      | QPSK       | 23095   | 15RB#0           | 2.691                    | 2.982                | PASS    |
| Band12 | 3MHz      | QPSK       | 23165   | 15RB#0           | 2.697                    | 3.000                | PASS    |
| Band12 | 3MHz      | 16QAM      | 23025   | 15RB#0           | 2.685                    | 2.976                | PASS    |
| Band12 | 3MHz      | 16QAM      | 23095   | 15RB#0           | 2.685                    | 2.976                | PASS    |
| Band12 | 3MHz      | 16QAM      | 23165   | 15RB#0           | 2.685                    | 2.976                | PASS    |
| Band12 | 5MHz      | QPSK       | 23035   | 25RB#0           | 4.466                    | 4.920                | PASS    |
| Band12 | 5MHz      | QPSK       | 23095   | 25RB#0           | 4.476                    | 4.930                | PASS    |
| Band12 | 5MHz      | QPSK       | 23155   | 25RB#0           | 4.476                    | 4.940                | PASS    |
| Band12 | 5MHz      | 16QAM      | 23035   | 25RB#0           | 4.486                    | 4.950                | PASS    |
| Band12 | 5MHz      | 16QAM      | 23095   | 25RB#0           | 4.486                    | 4.950                | PASS    |
| Band12 | 5MHz      | 16QAM      | 23155   | 25RB#0           | 4.486                    | 4.950                | PASS    |
| Band12 | 10MHz     | QPSK       | 23060   | 50RB#0           | 8.911                    | 9.700                | PASS    |
| Band12 | 10MHz     | QPSK       | 23095   | 50RB#0           | 8.911                    | 9.660                | PASS    |
| Band12 | 10MHz     | QPSK       | 23130   | 50RB#0           | 8.931                    | 9.700                | PASS    |
| Band12 | 10MHz     | 16QAM      | 23060   | 50RB#0           | 8.931                    | 9.720                | PASS    |
| Band12 | 10MHz     | 16QAM      | 23095   | 50RB#0           | 8.911                    | 9.680                | PASS    |
| Band12 | 10MHz     | 16QAM      | 23130   | 50RB#0           | 8.911                    | 9.760                | PASS    |

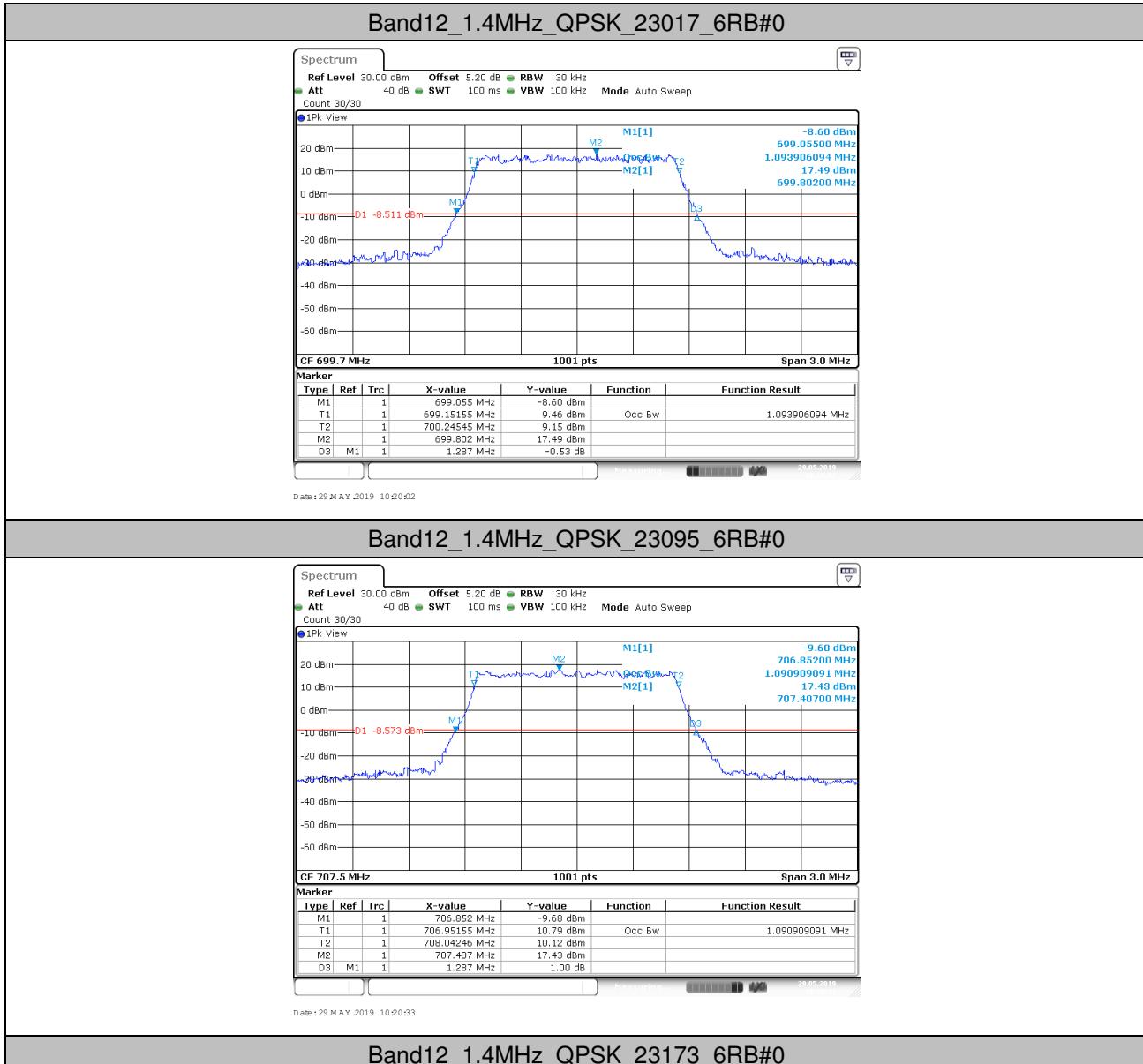
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## 4.2. Test Plots

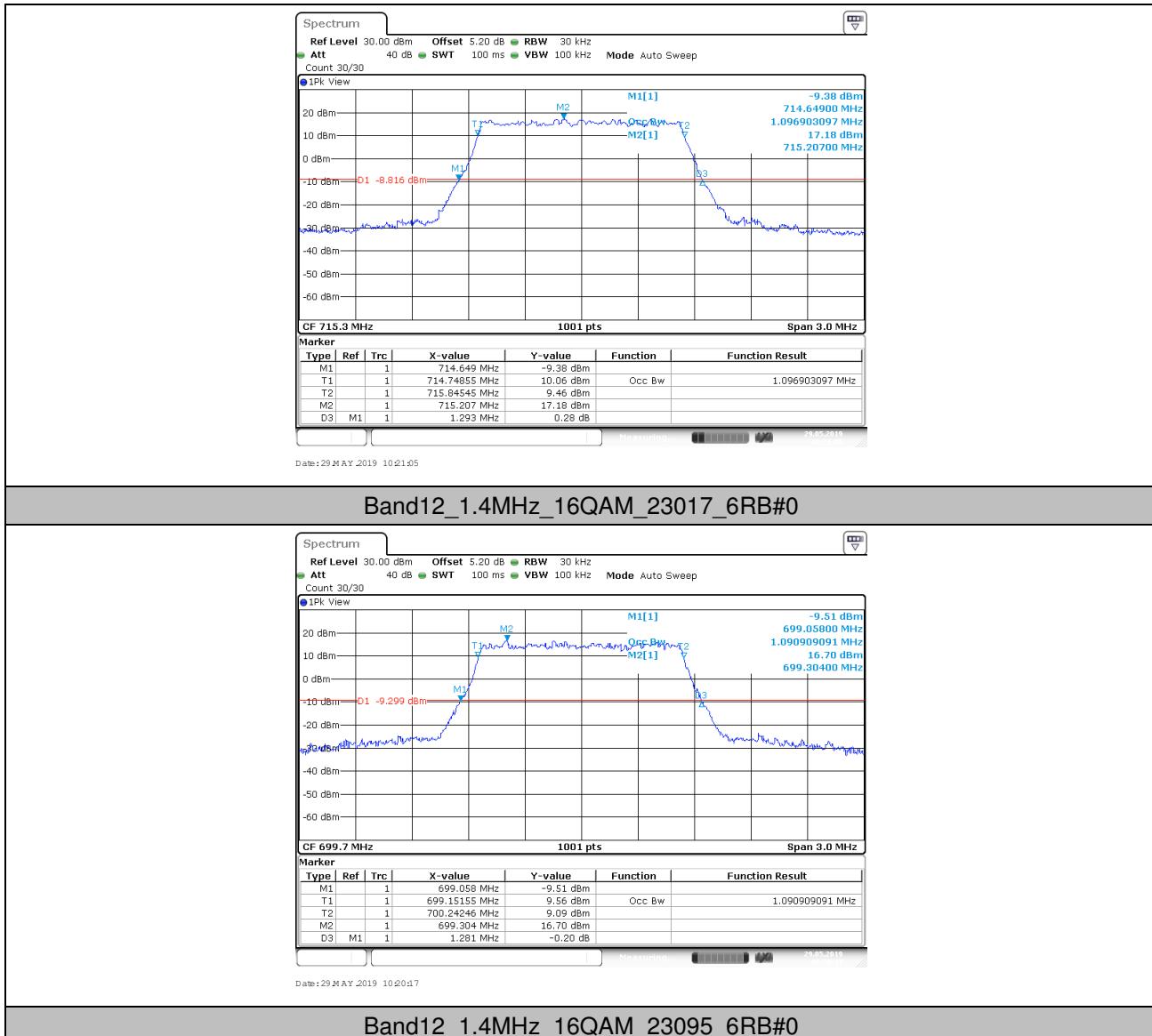


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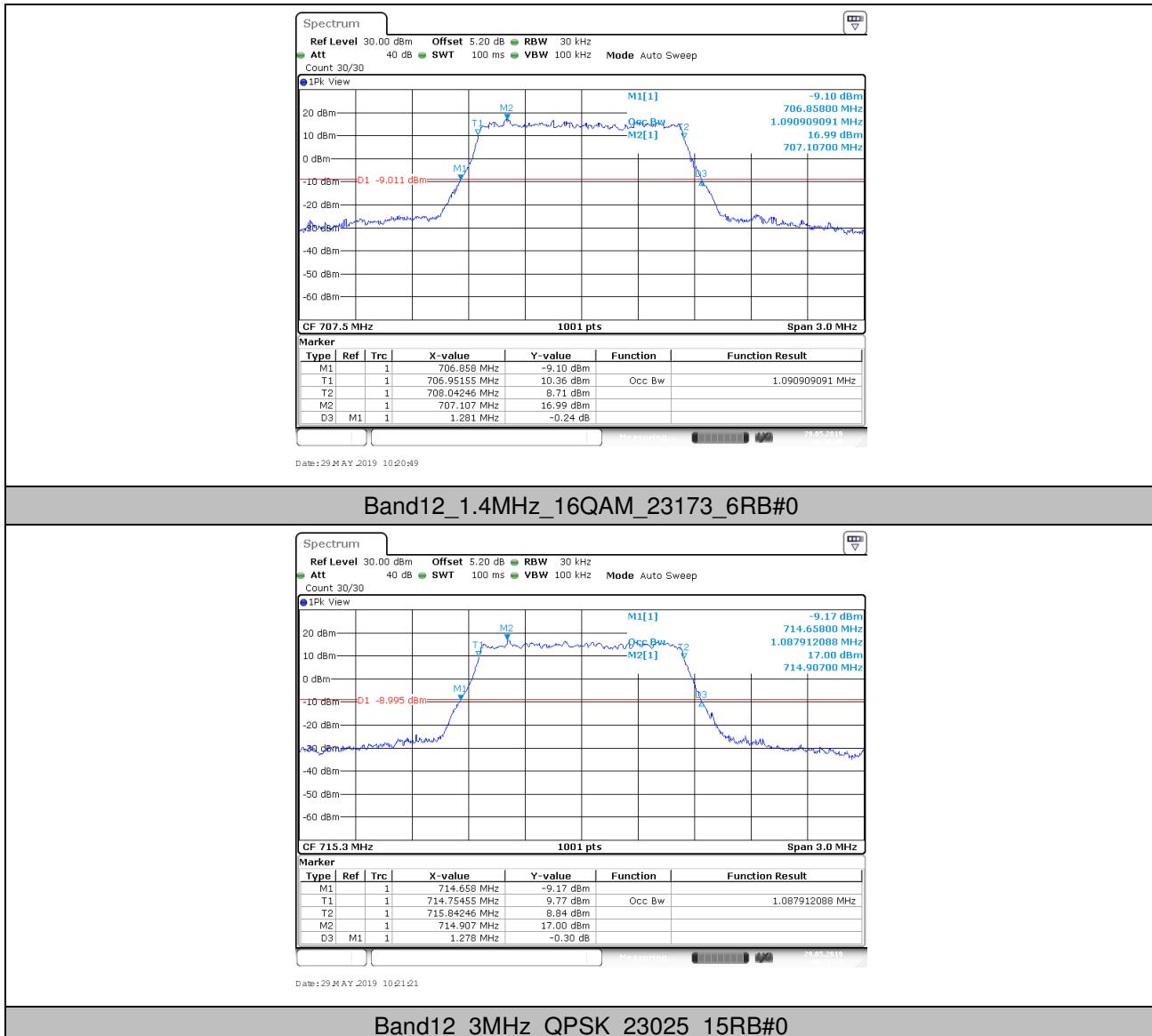


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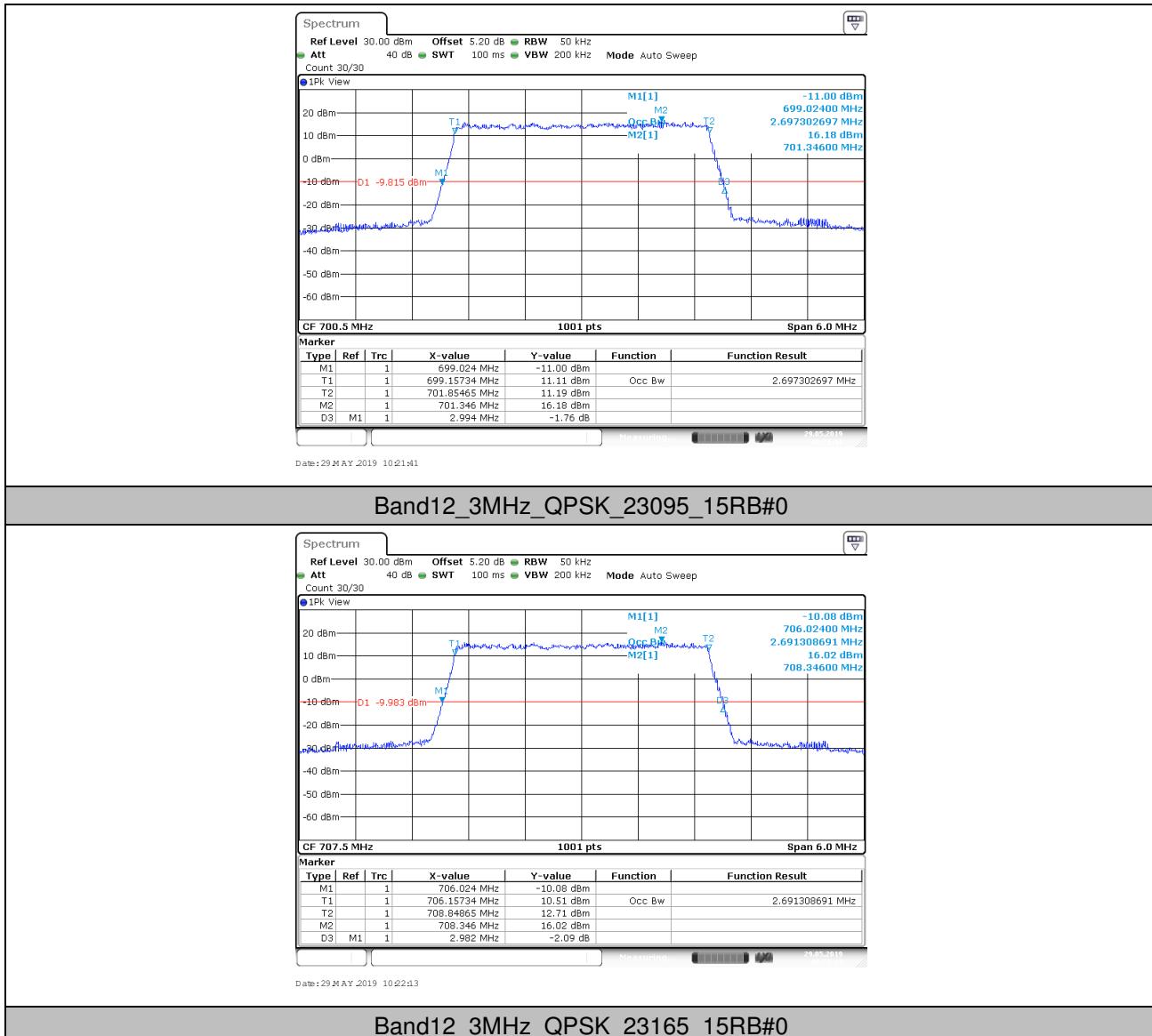


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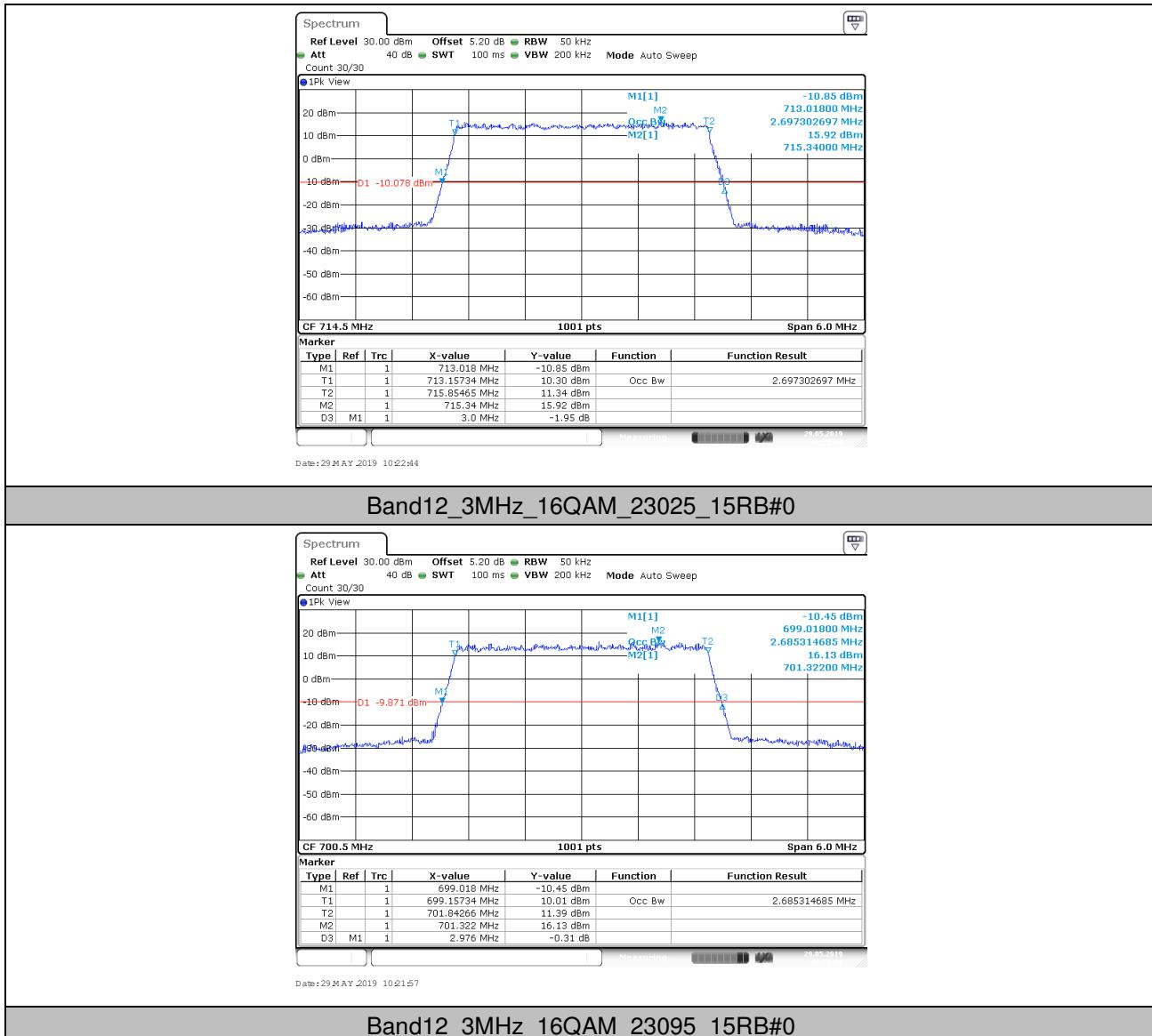


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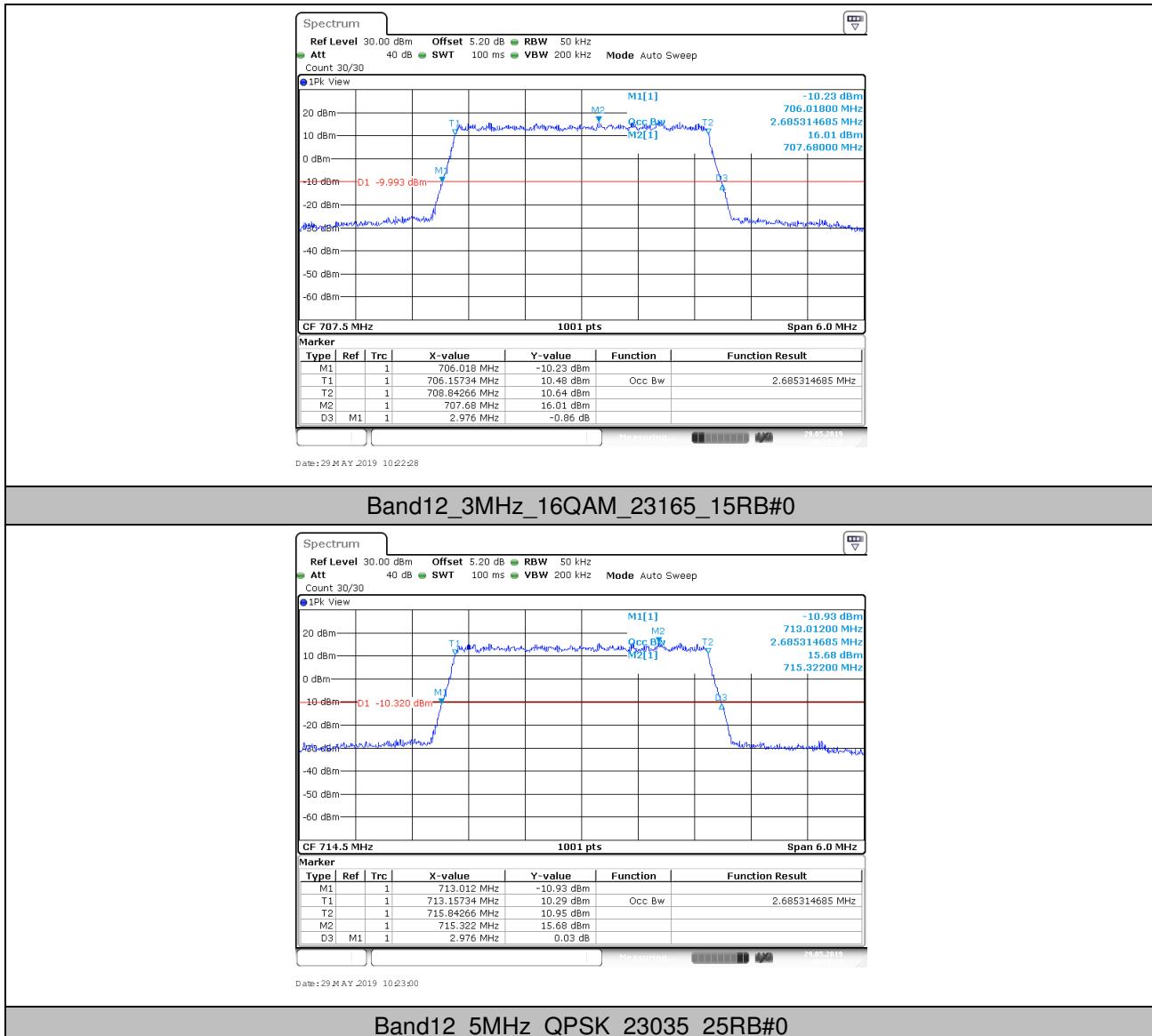
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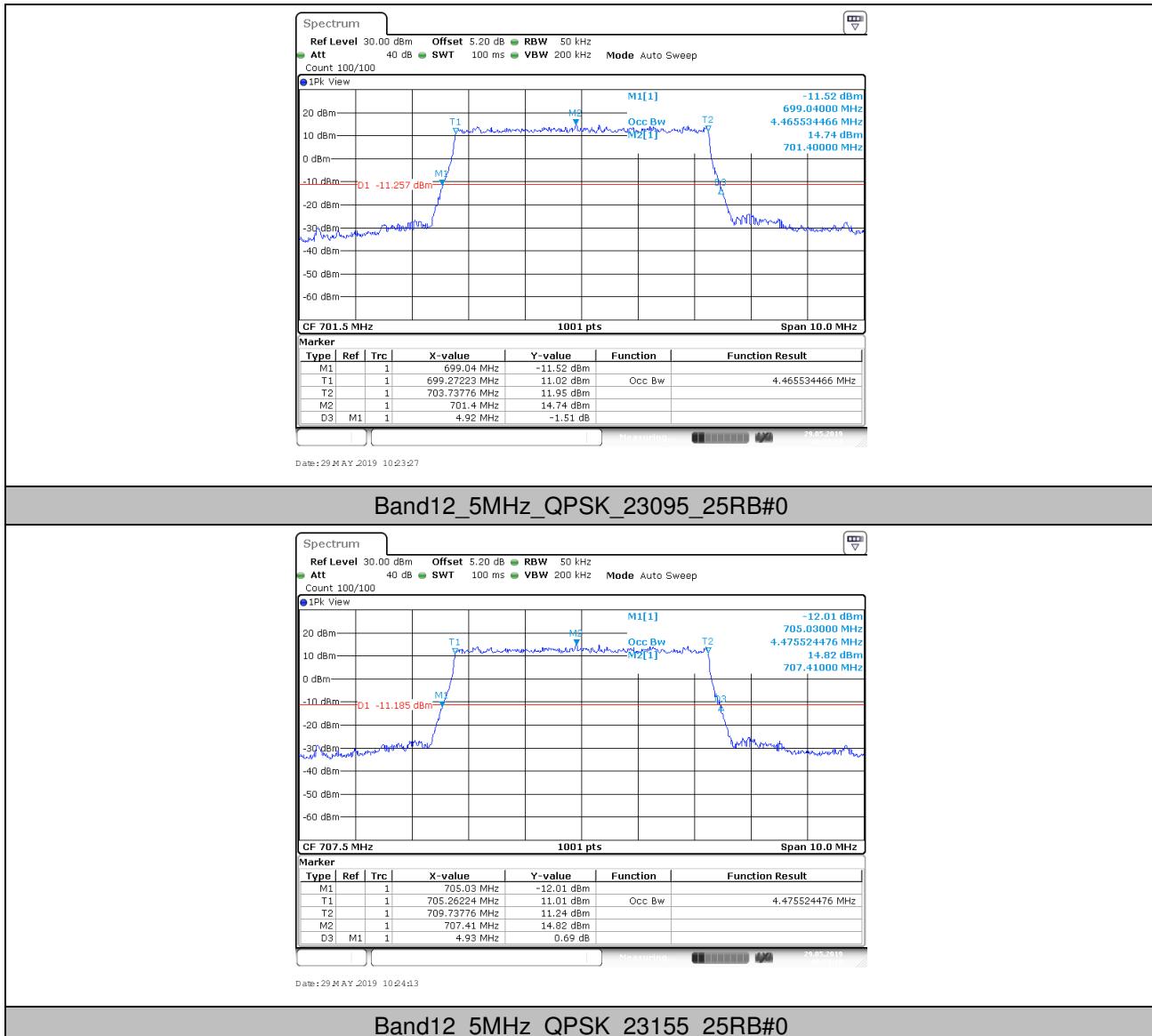


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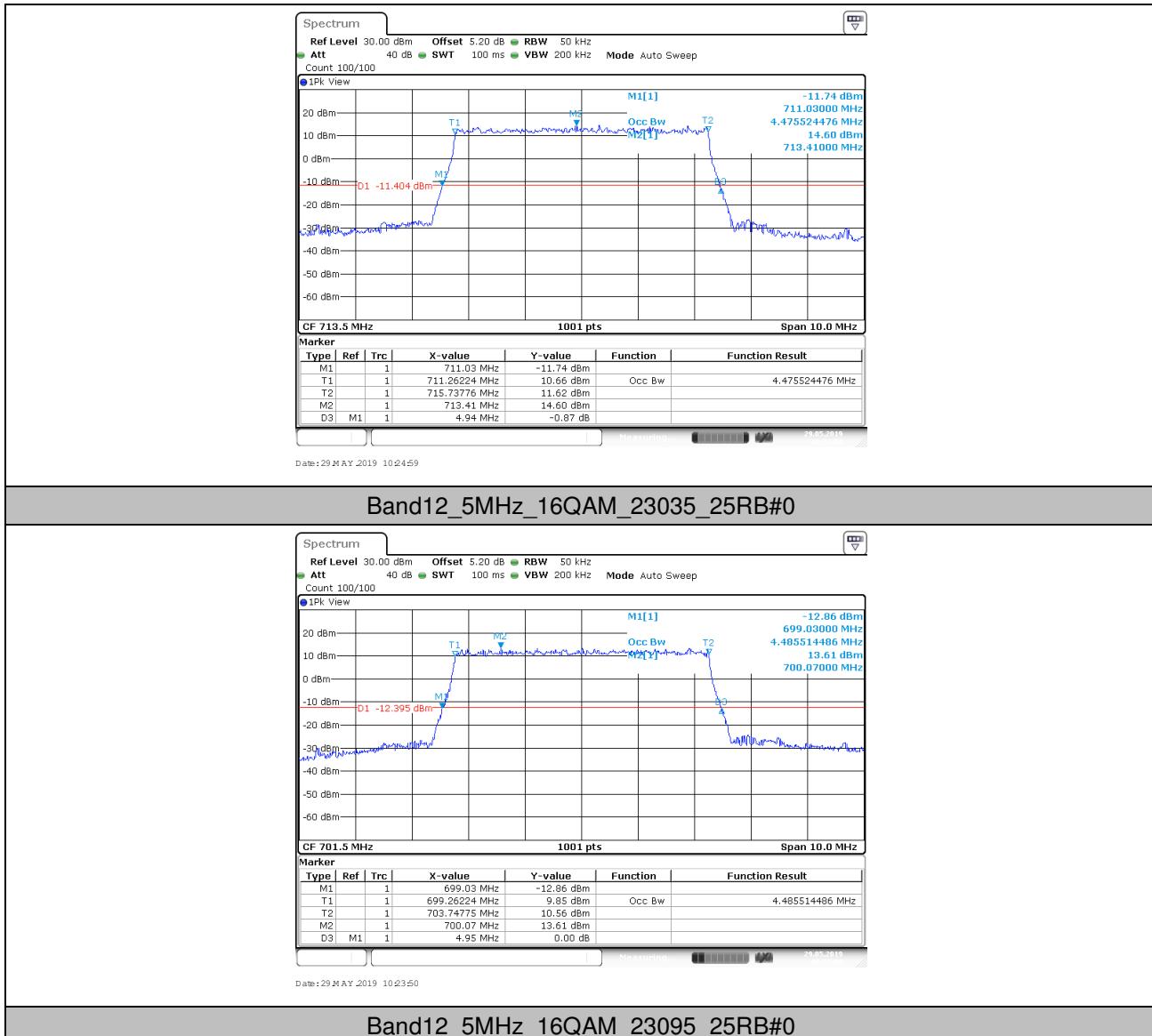


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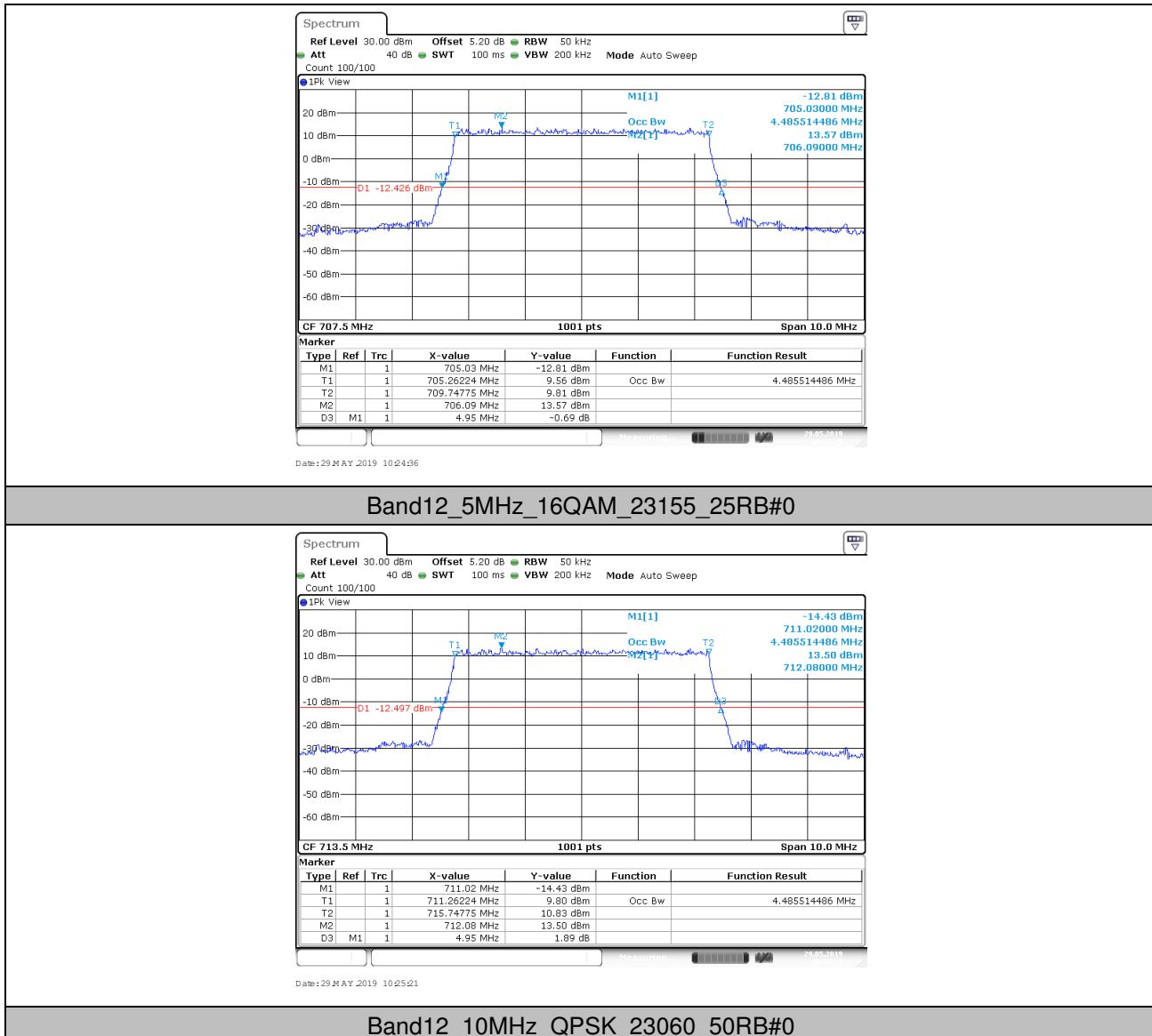


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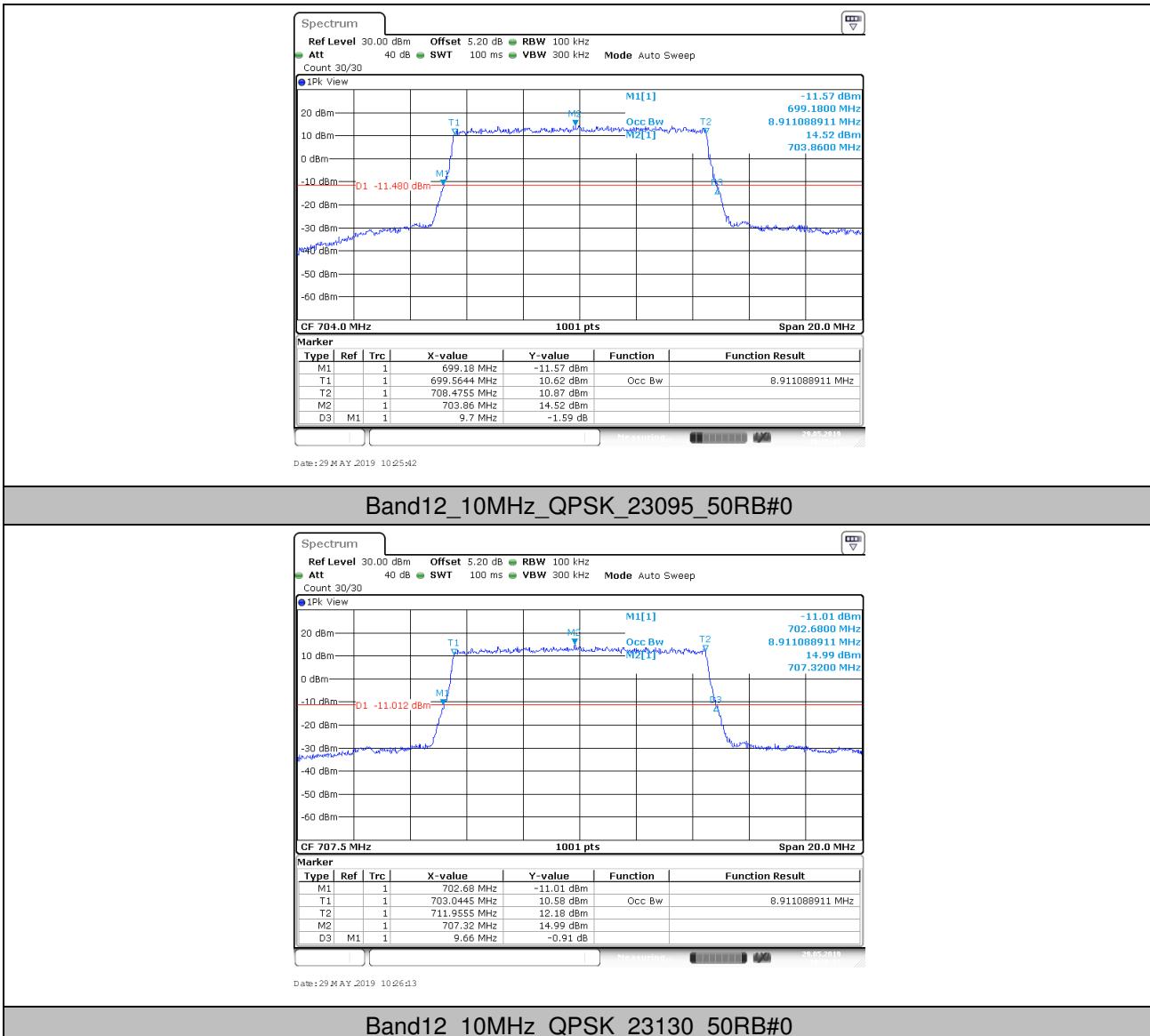


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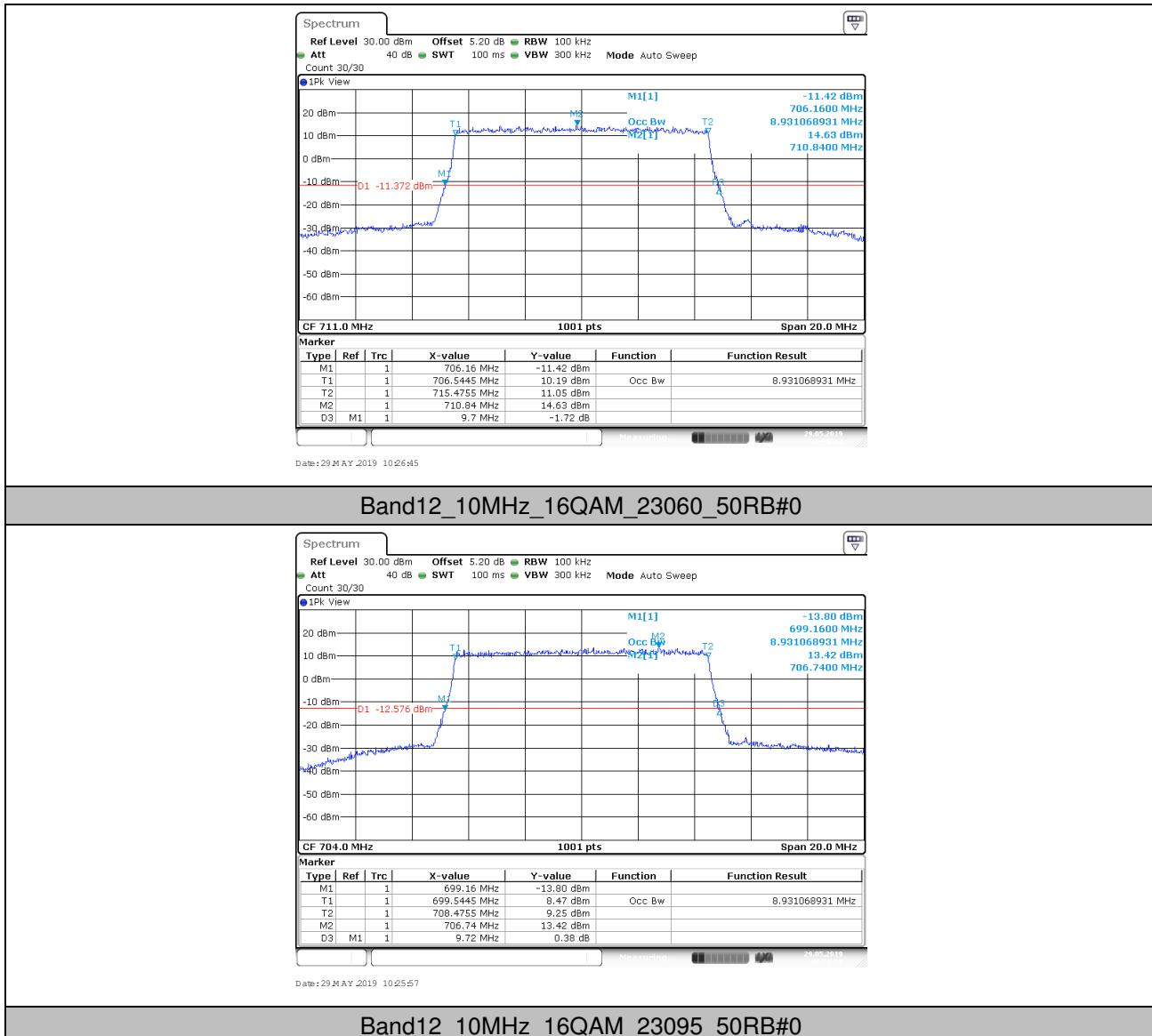


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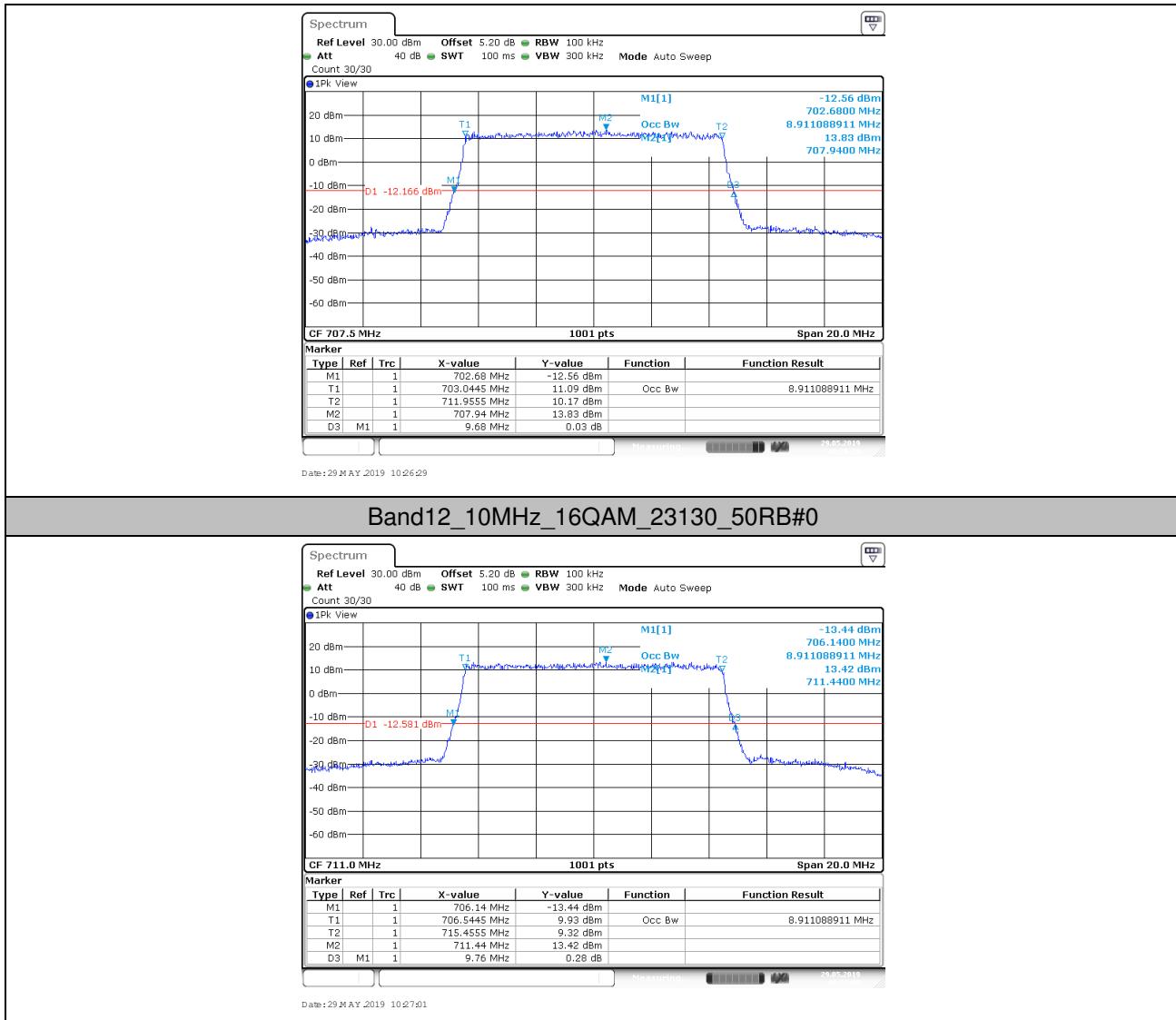
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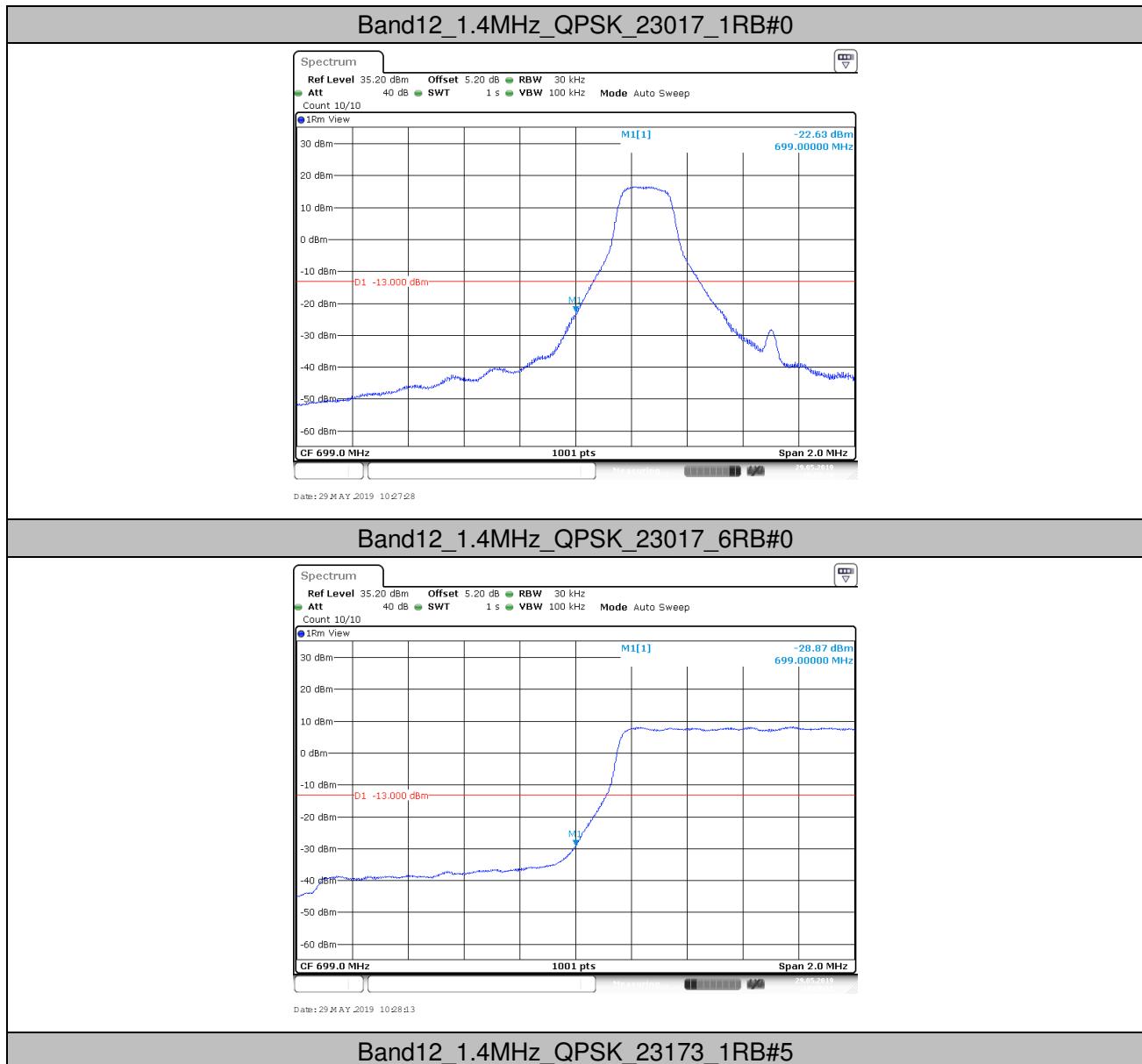
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## 5. Band Edge Compliance

### 5.1. Test Plots



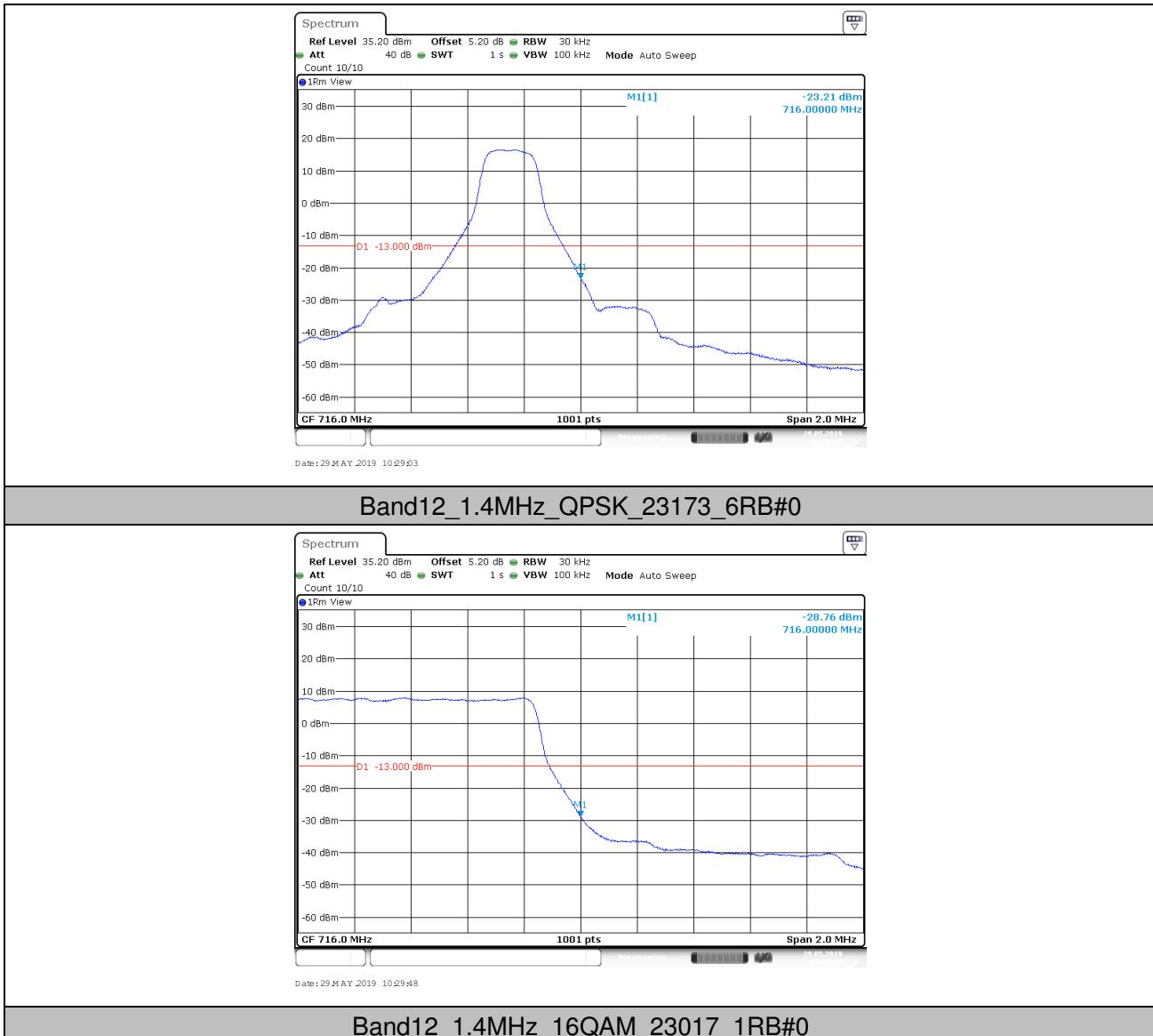
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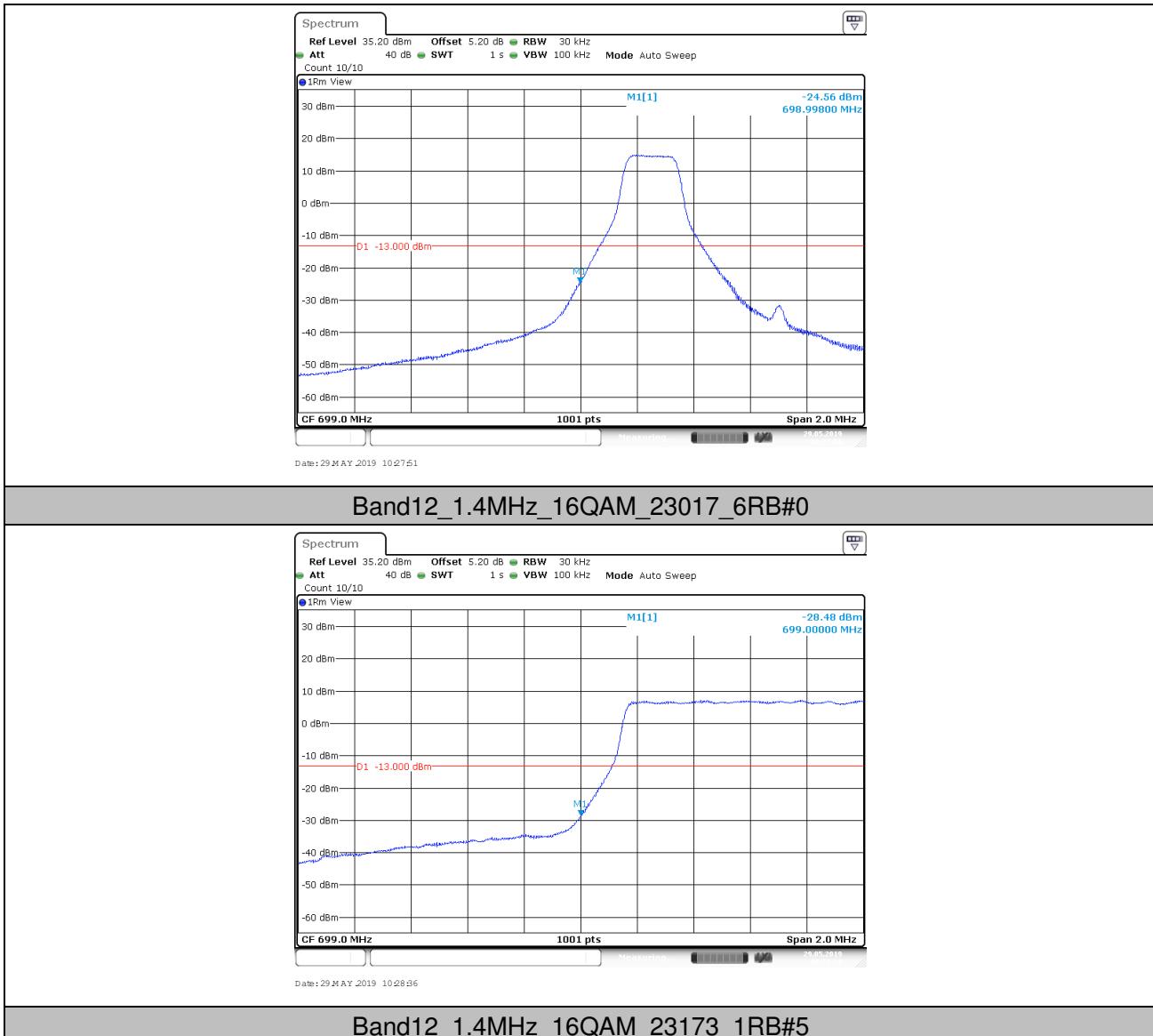
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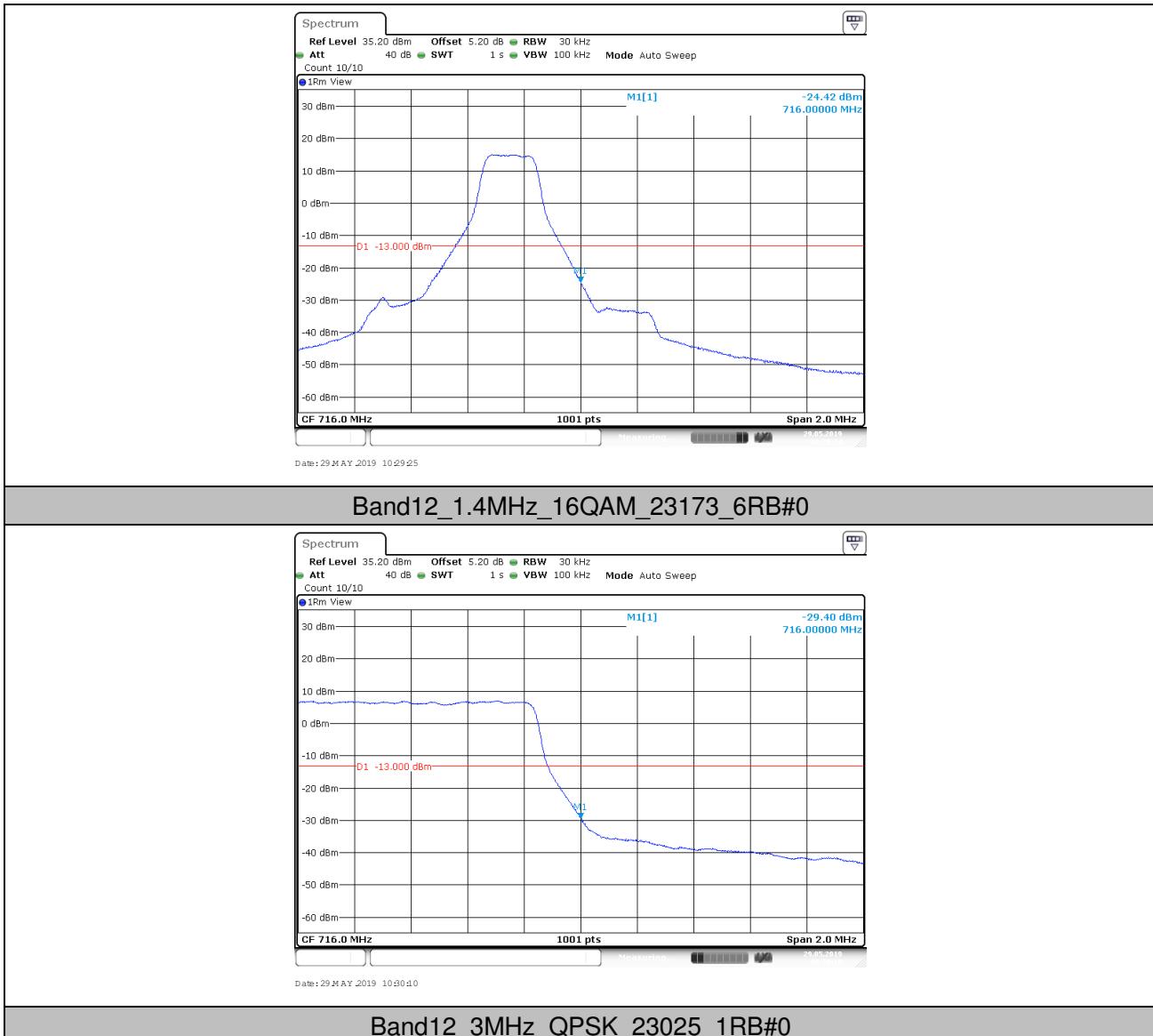
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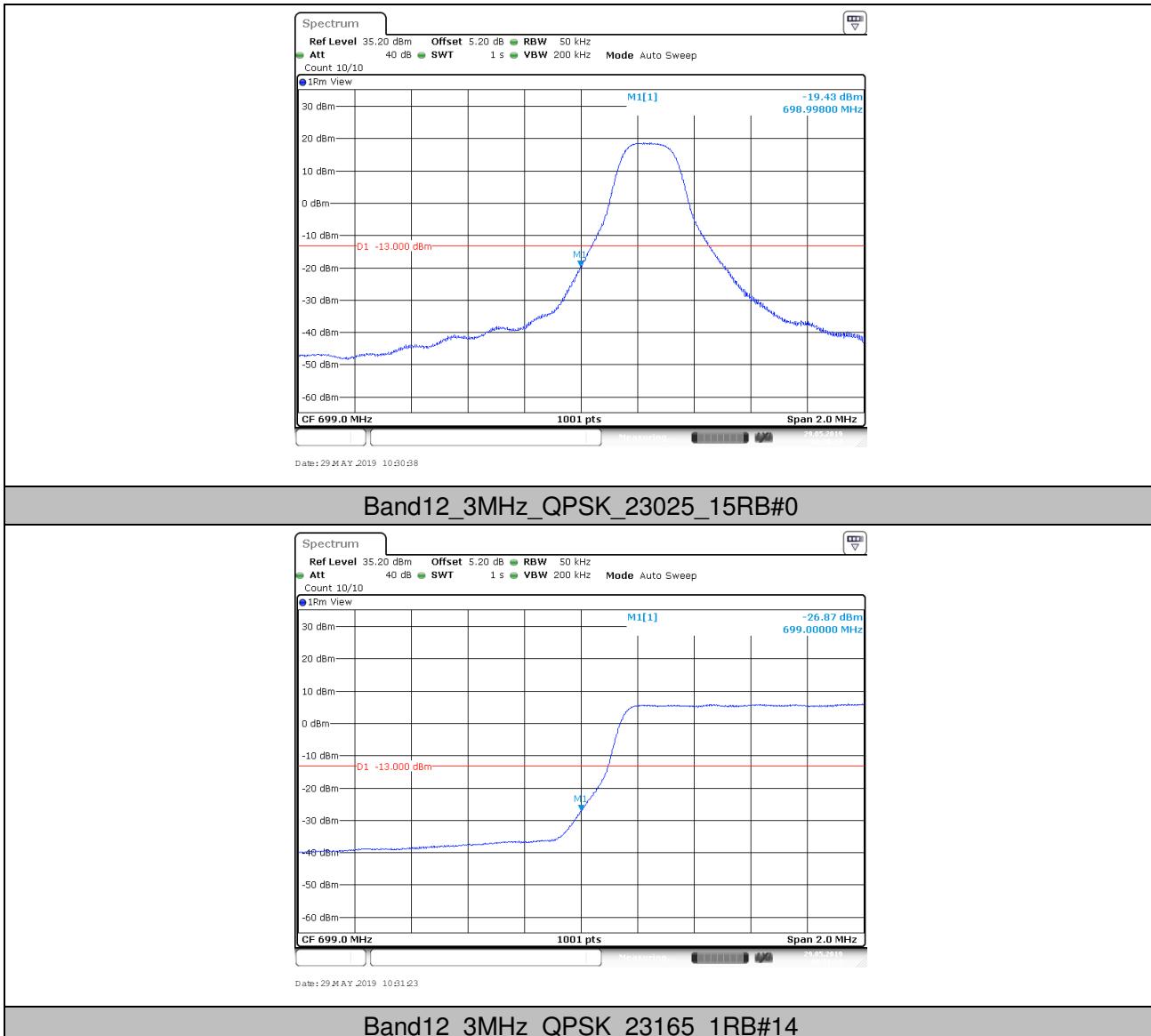


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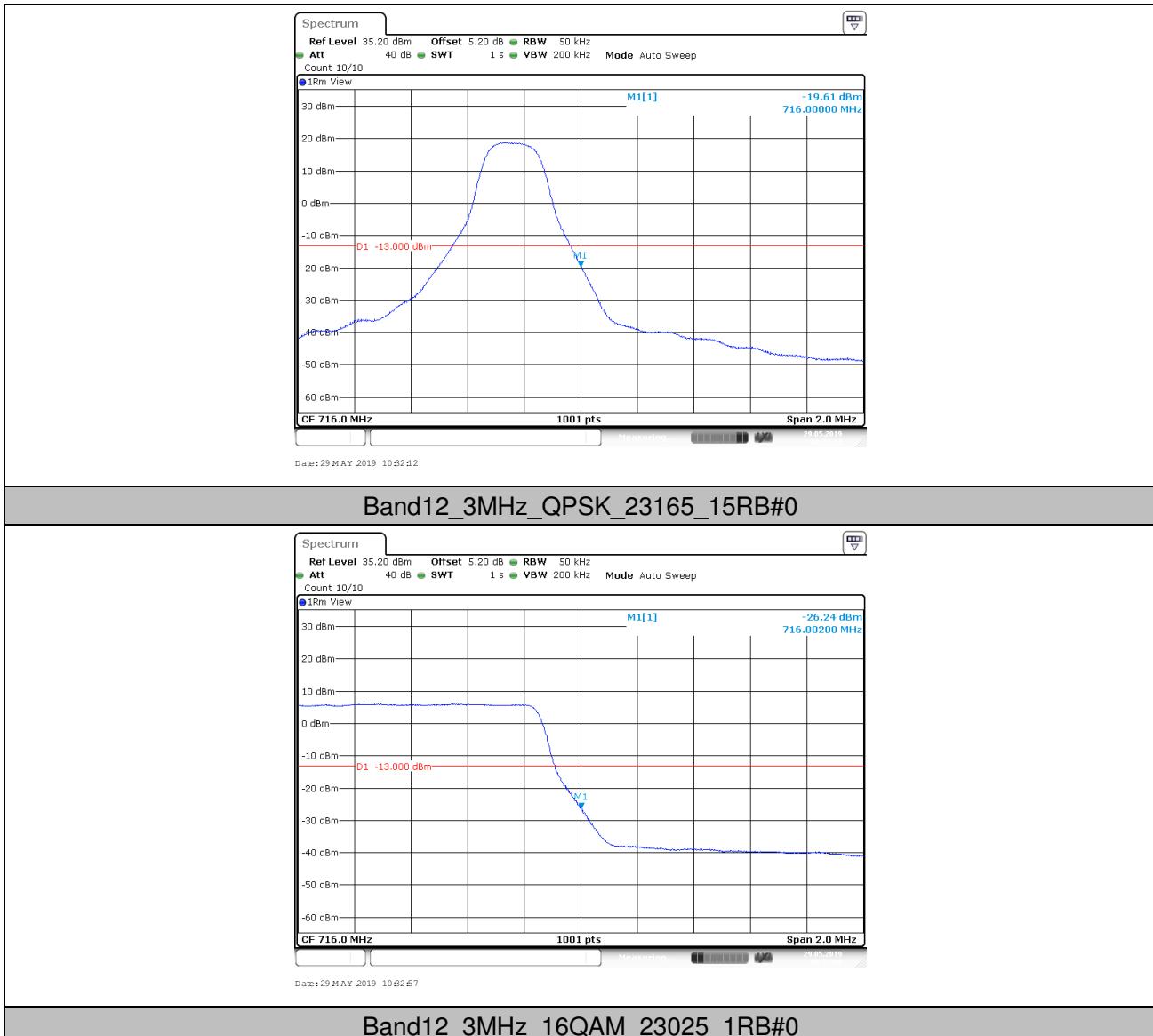
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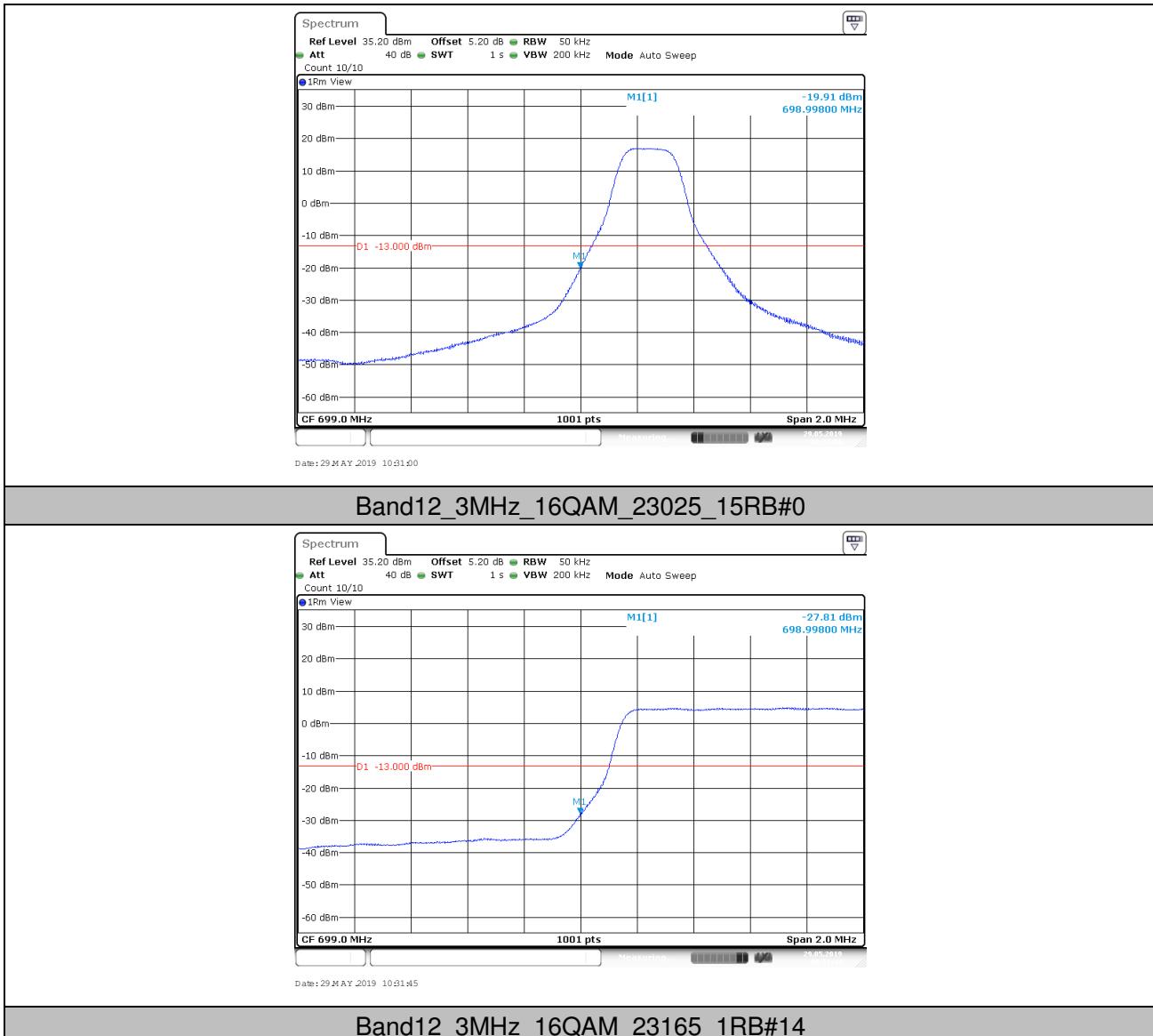
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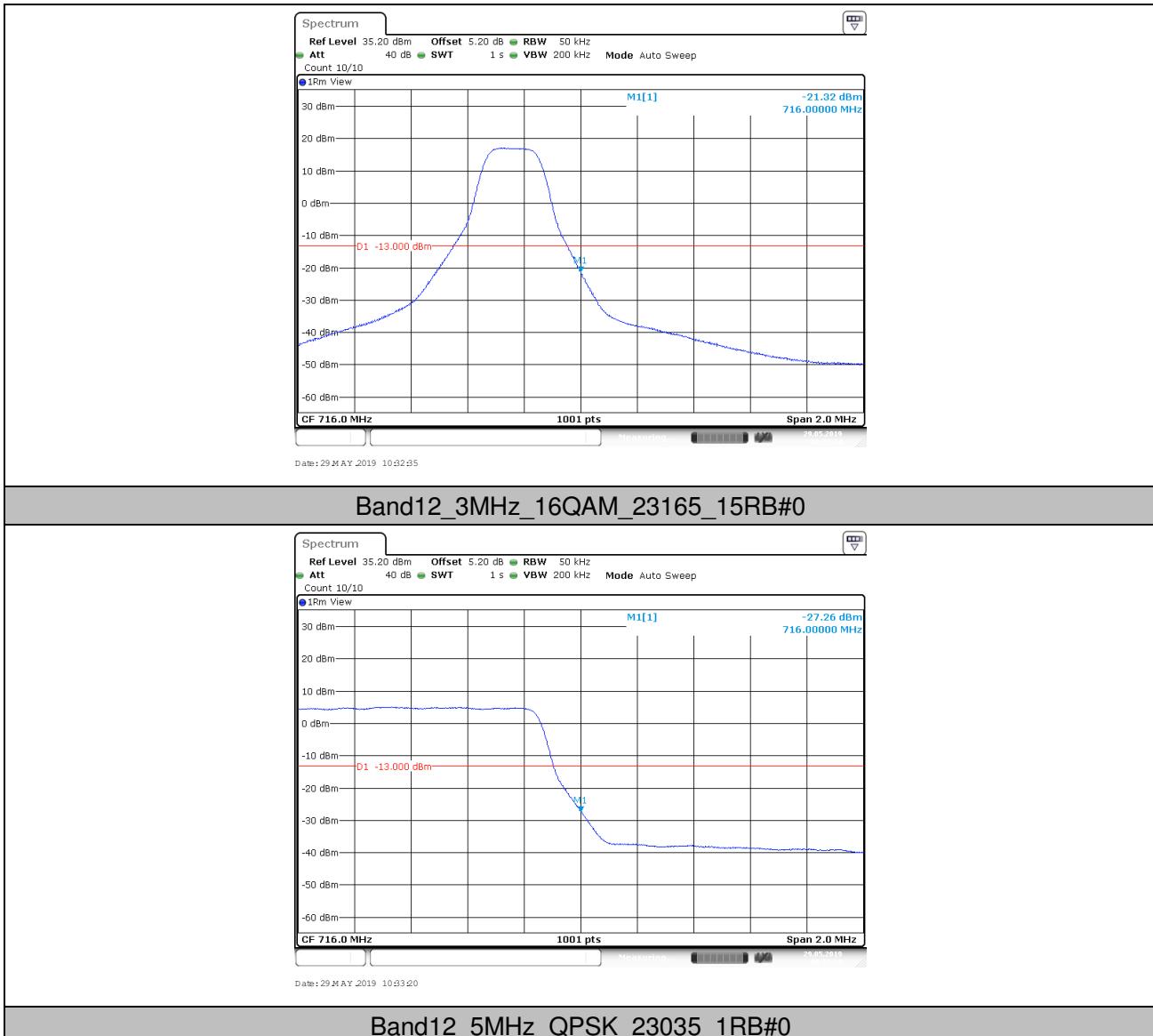


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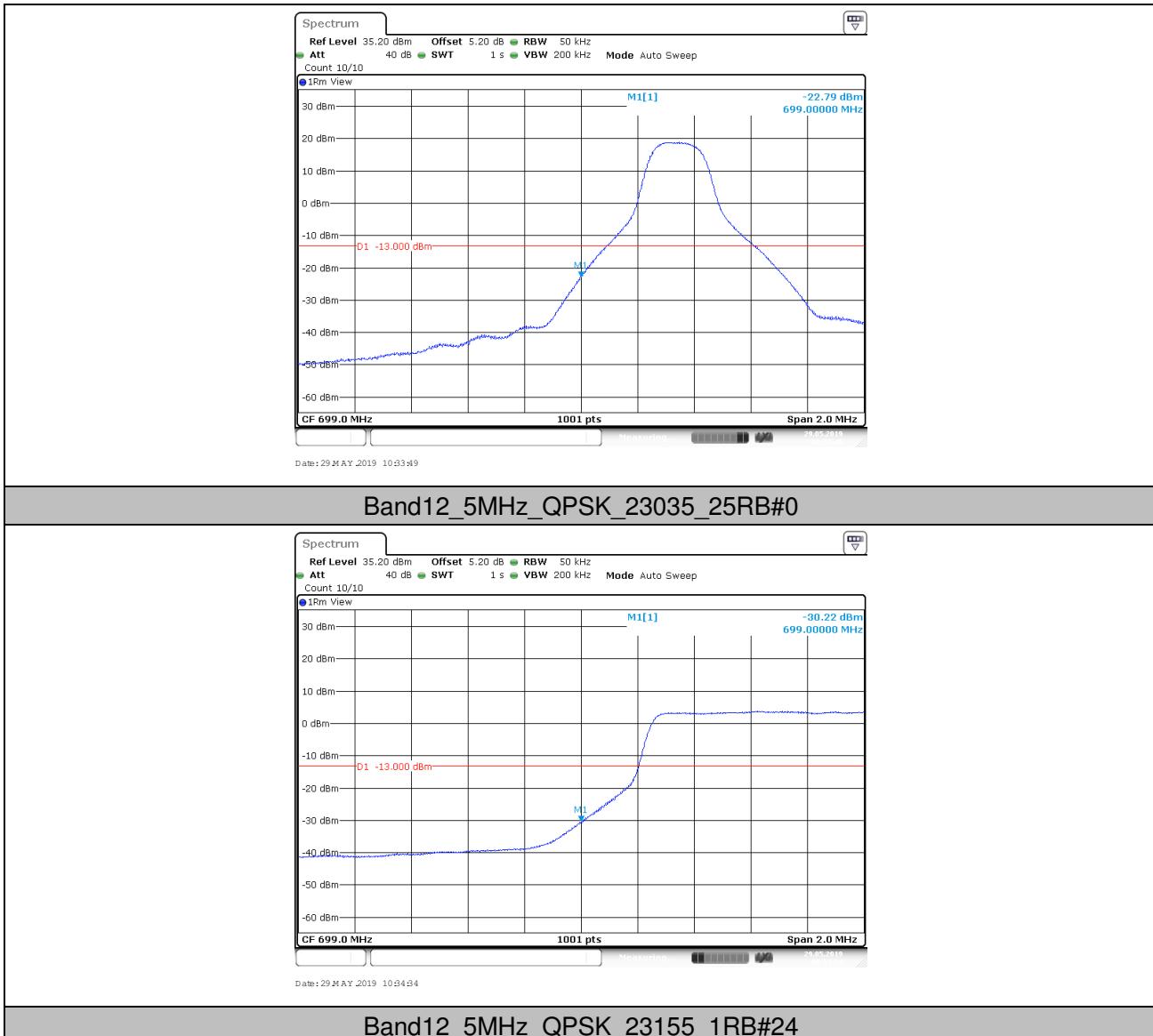


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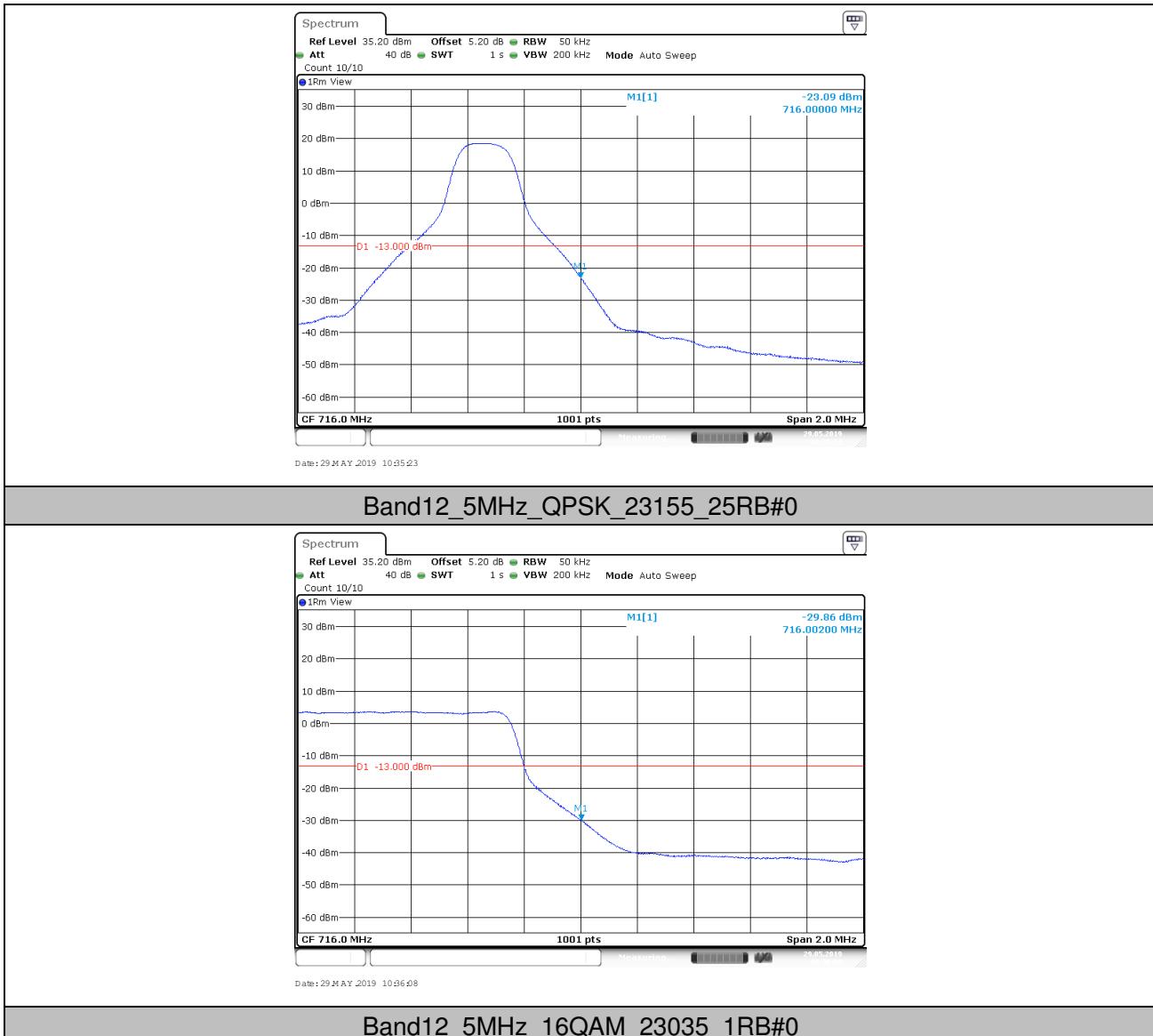
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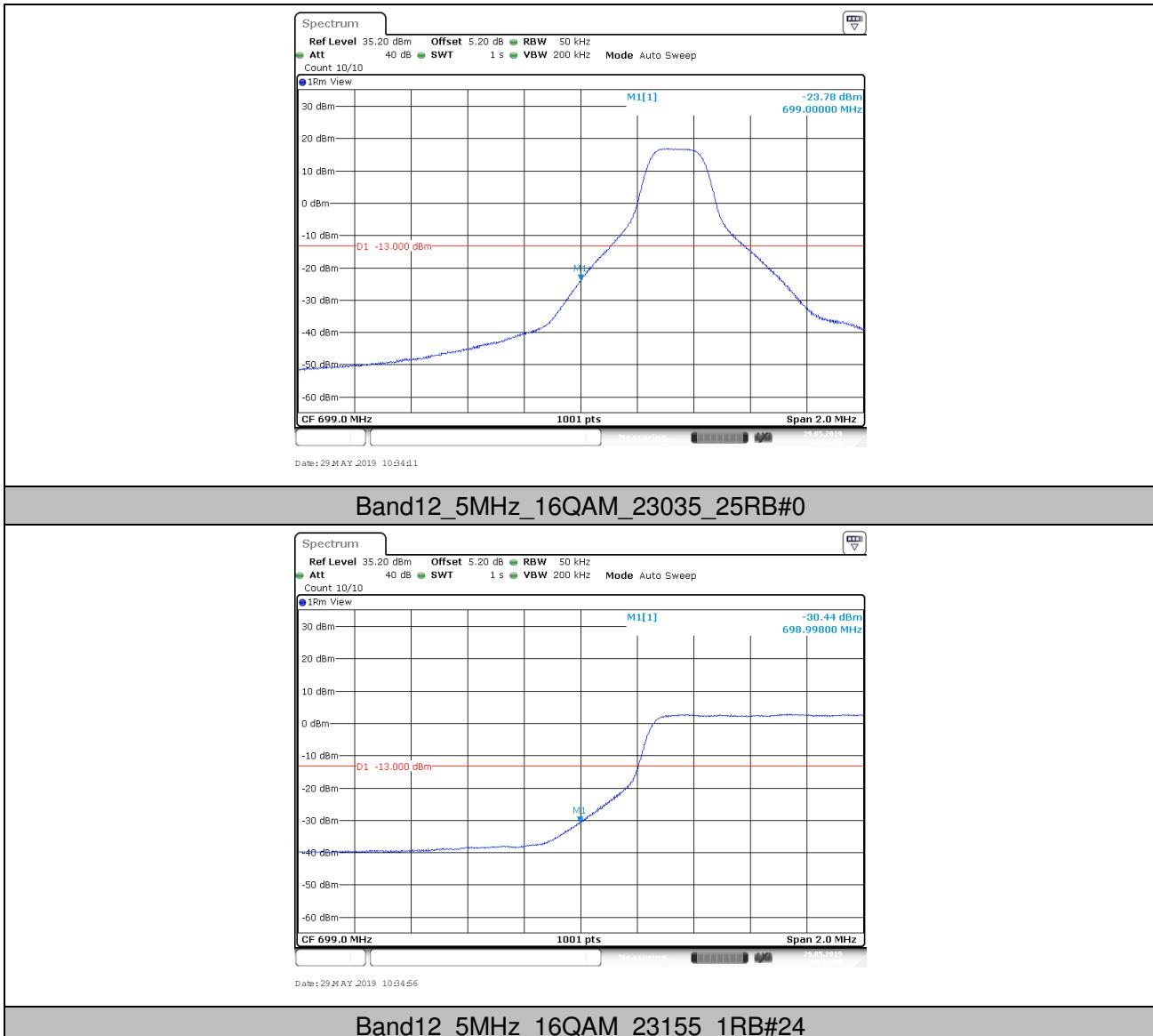
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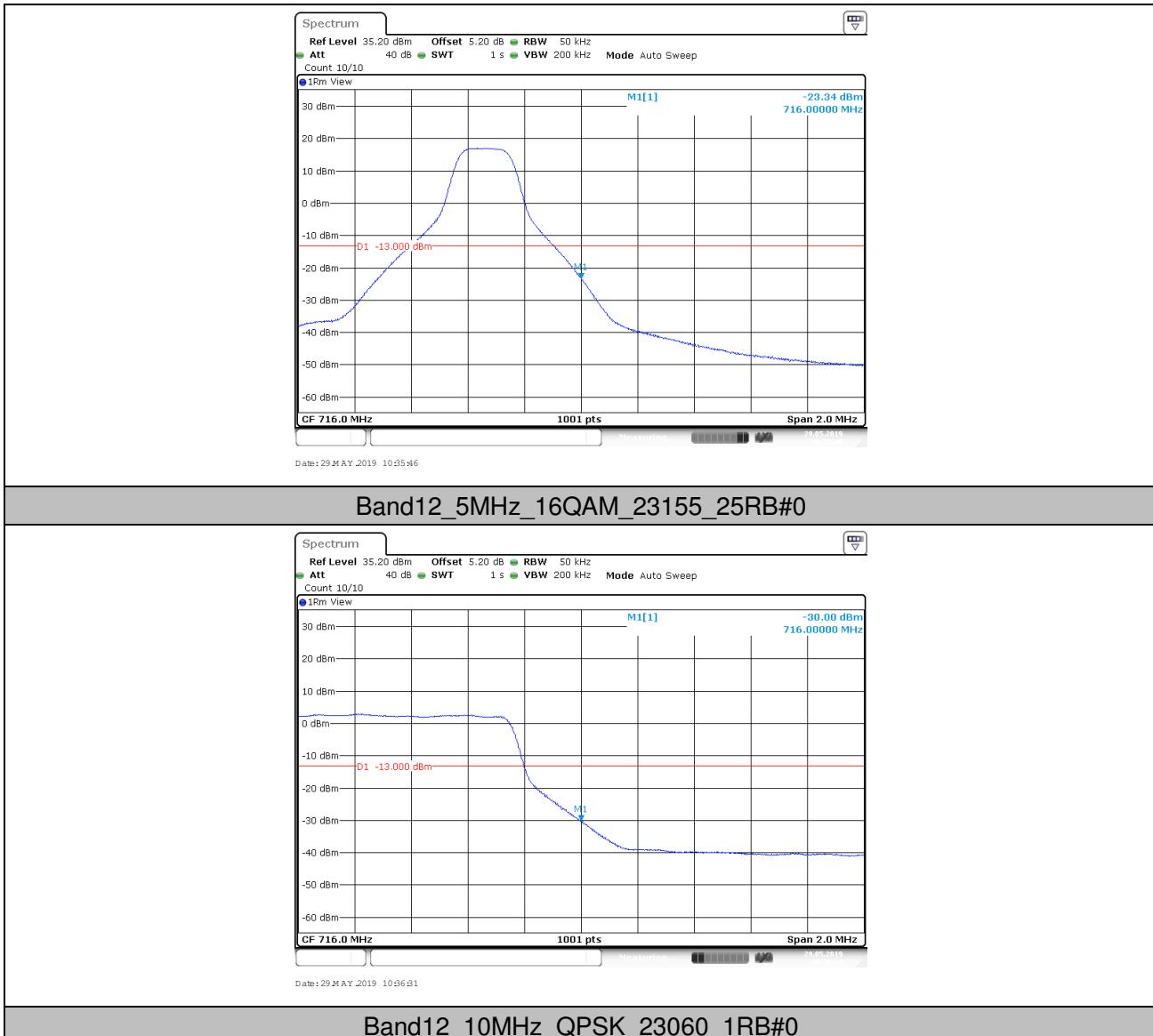
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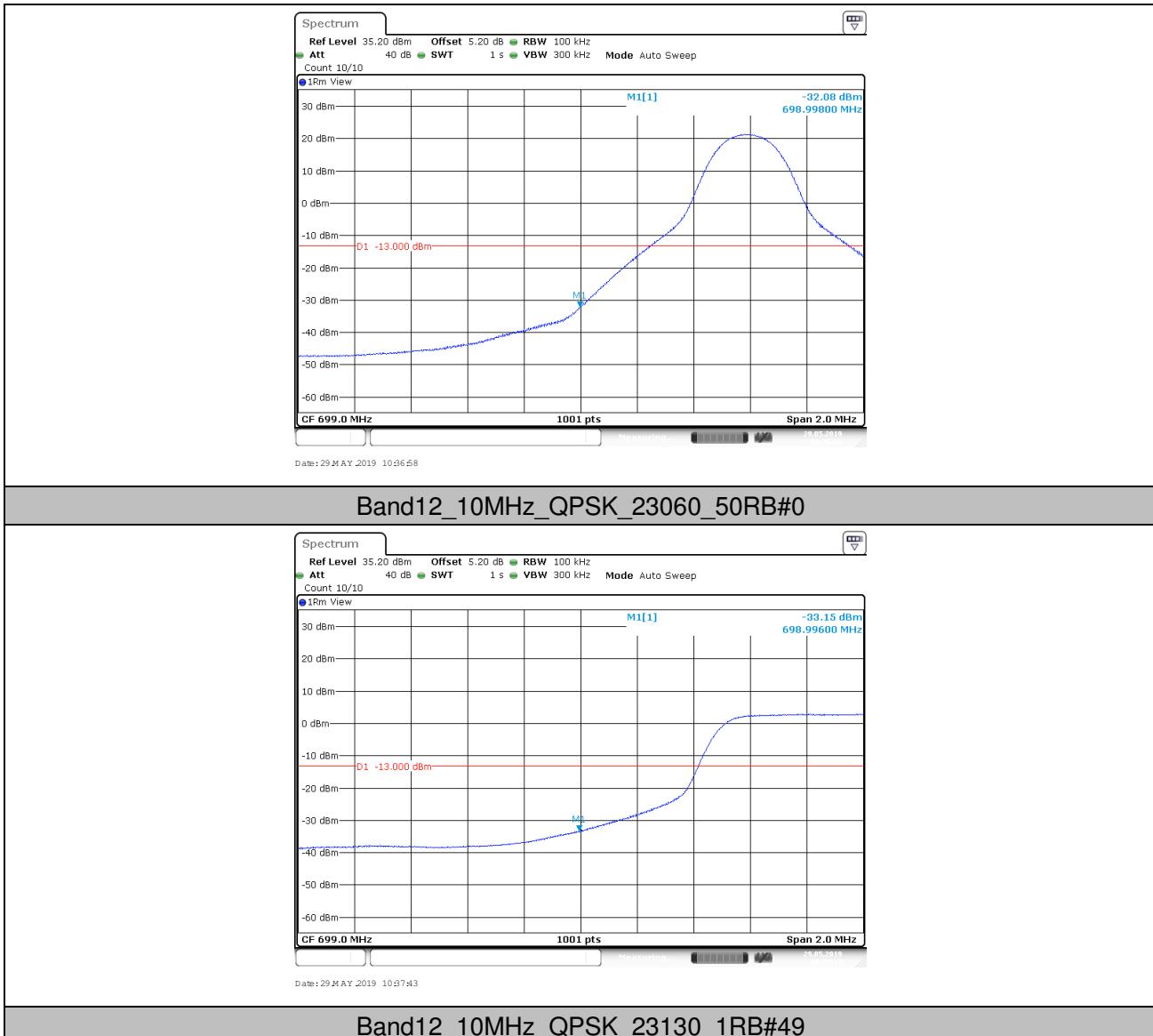
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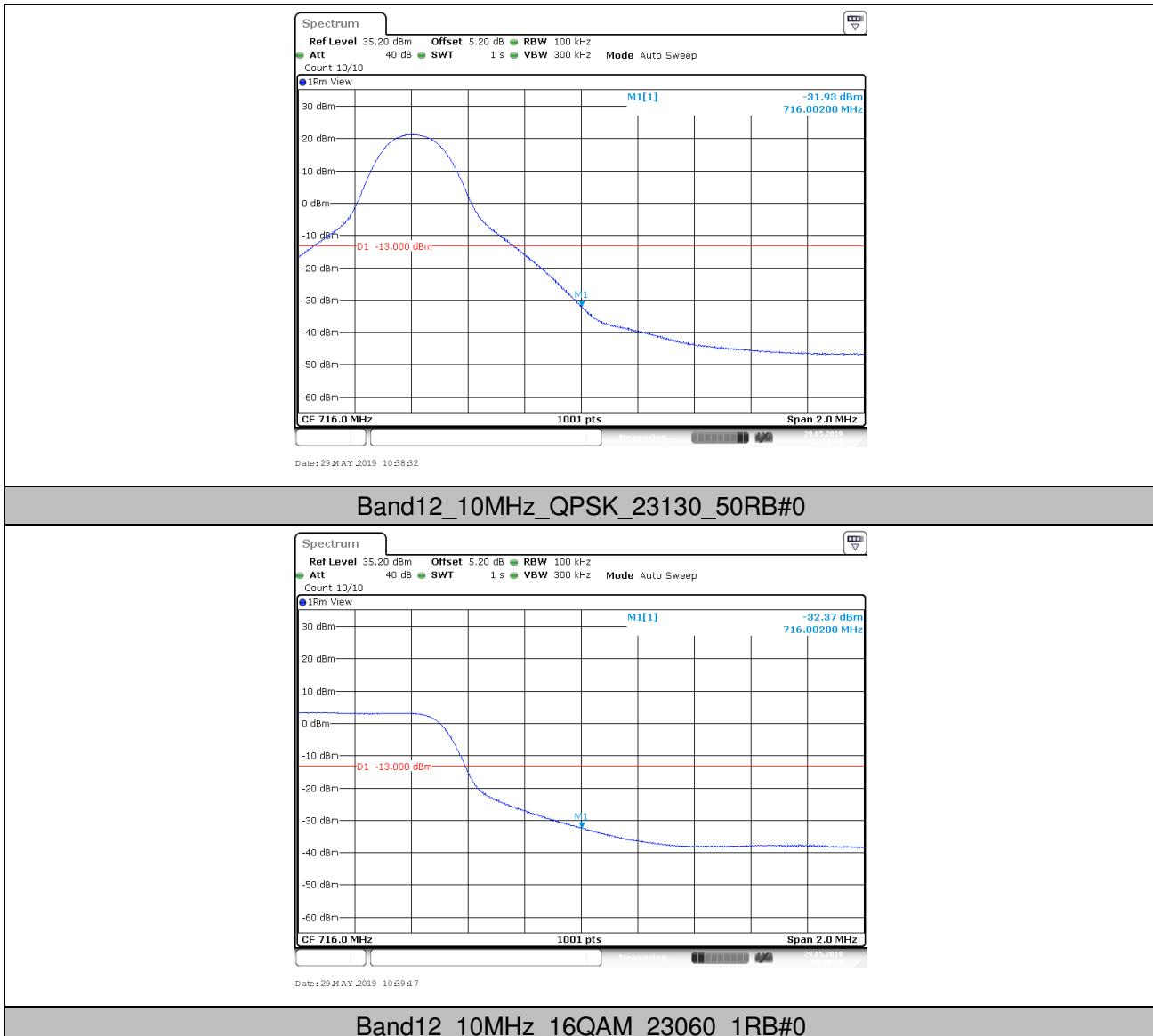
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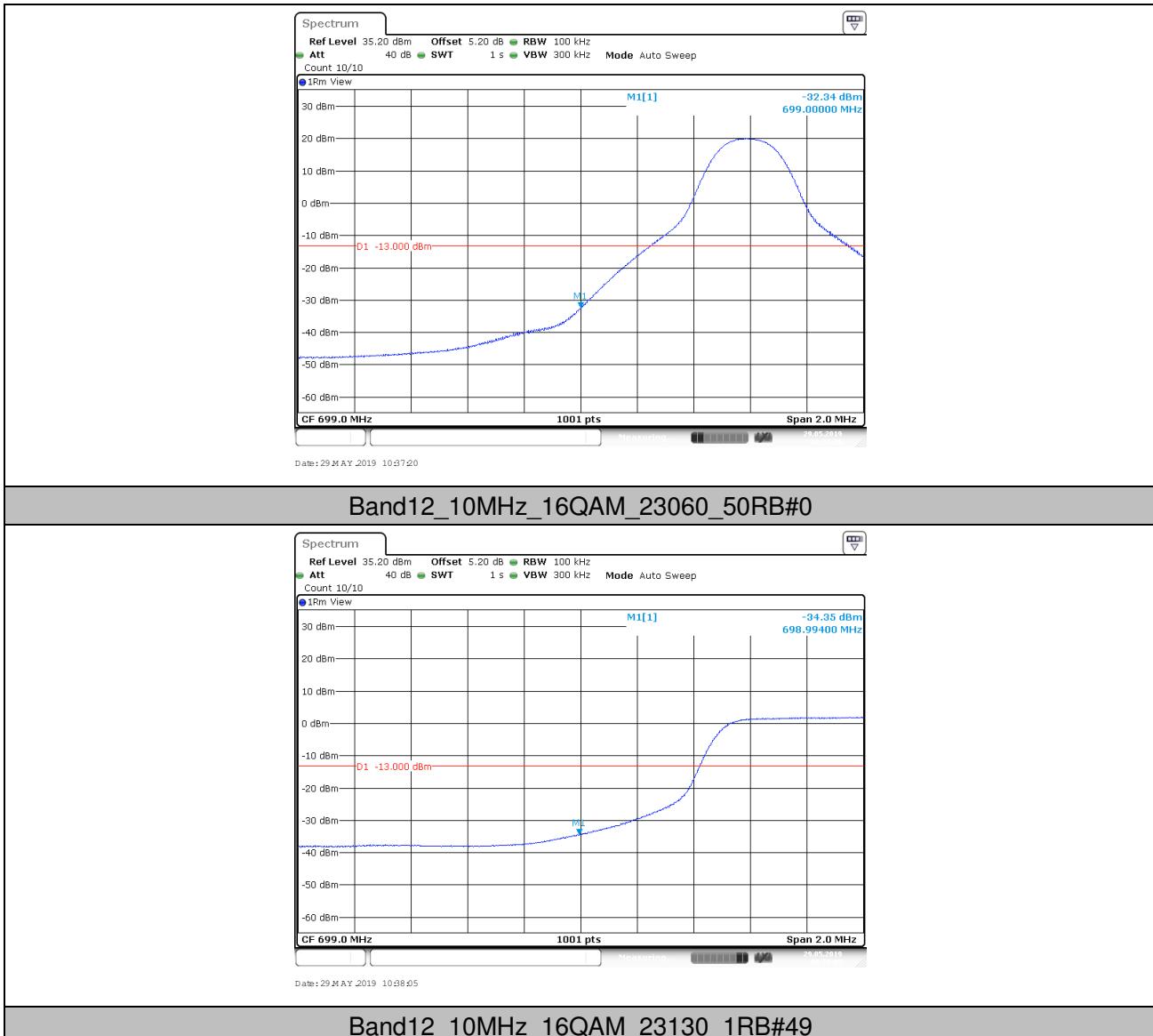


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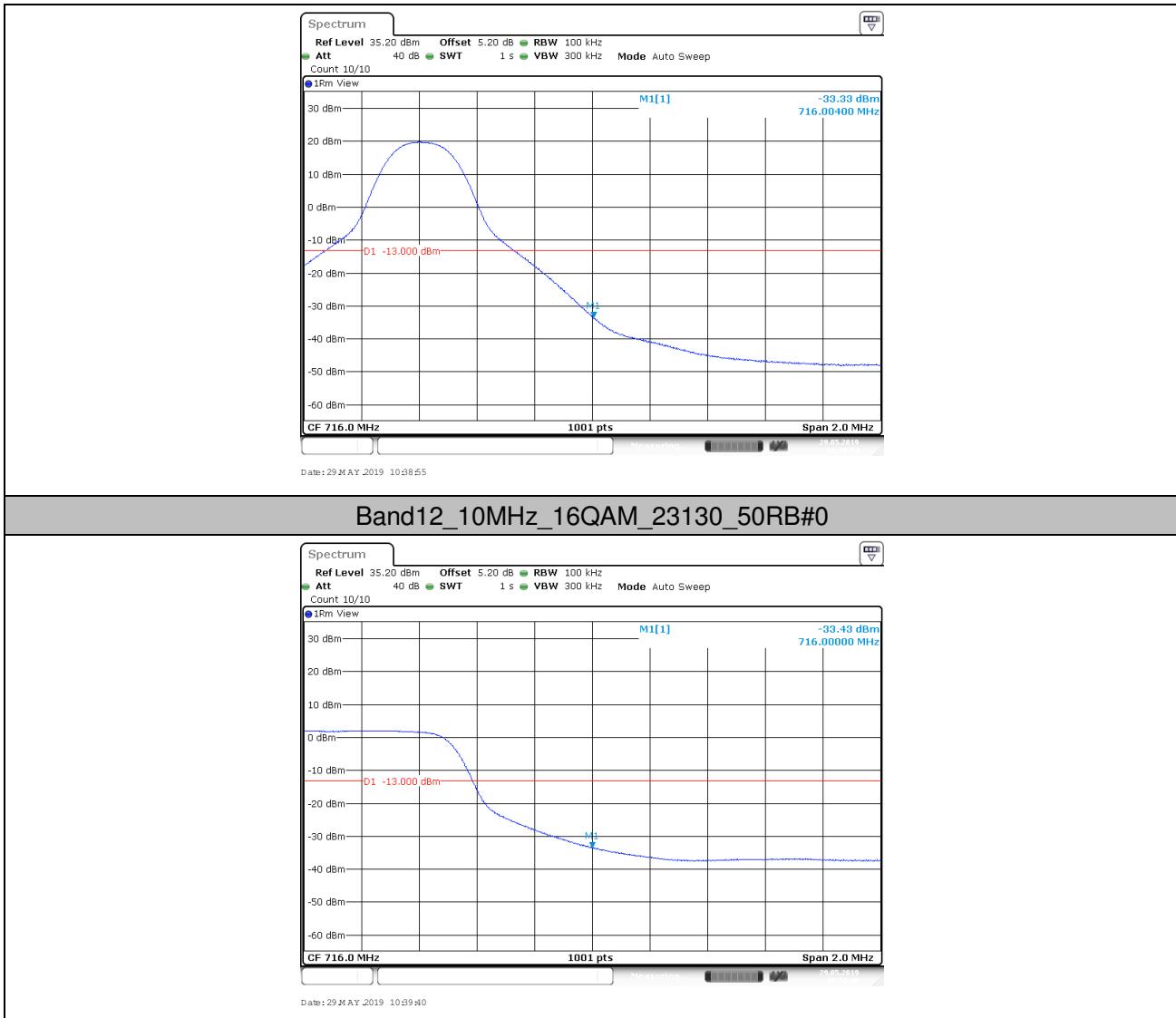
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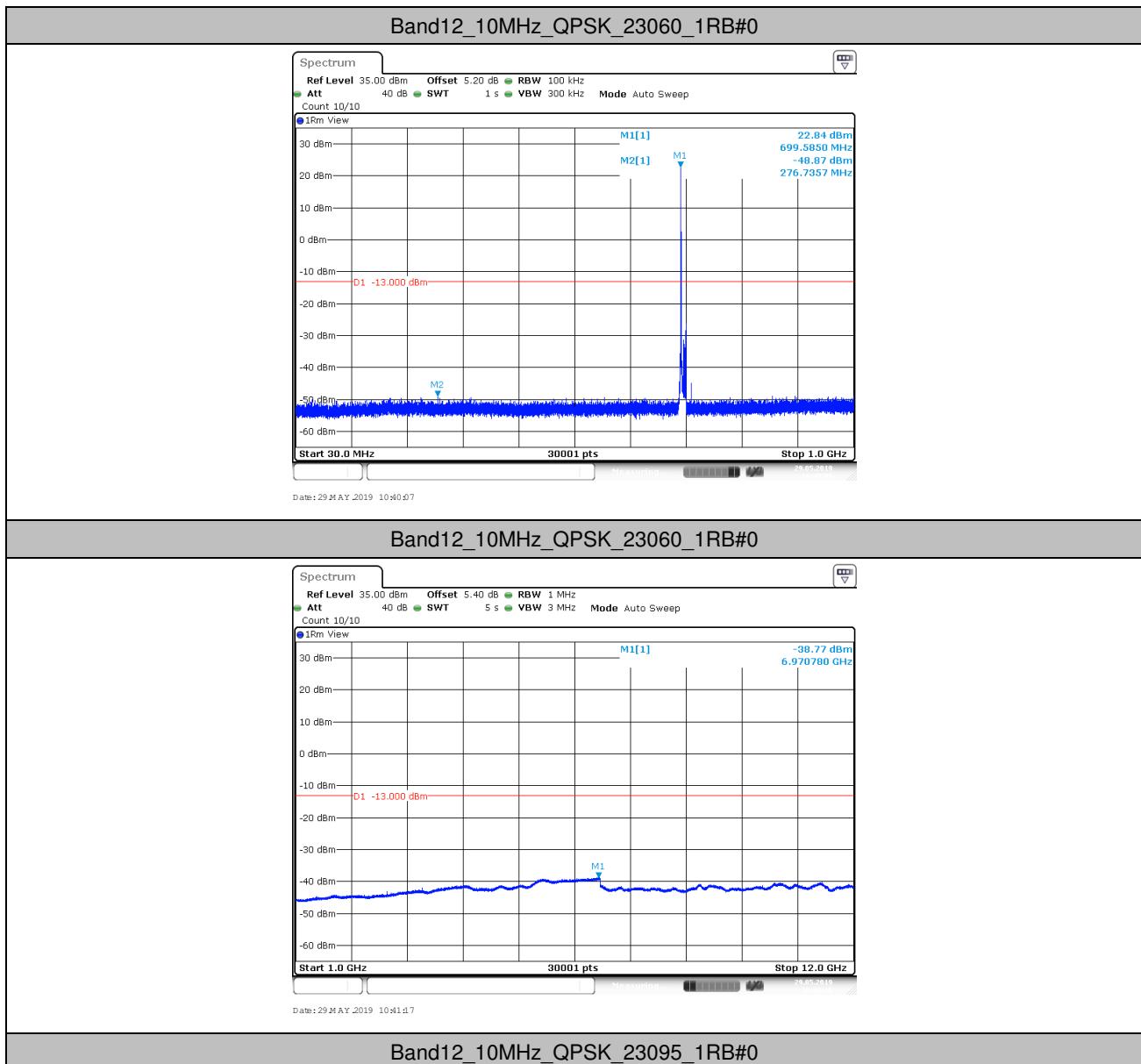
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## 6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< \text{RBW}/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =  $k * (\text{Span} / \text{RBW})$ " with  $k$  between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

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

### 6.1. Test Plots

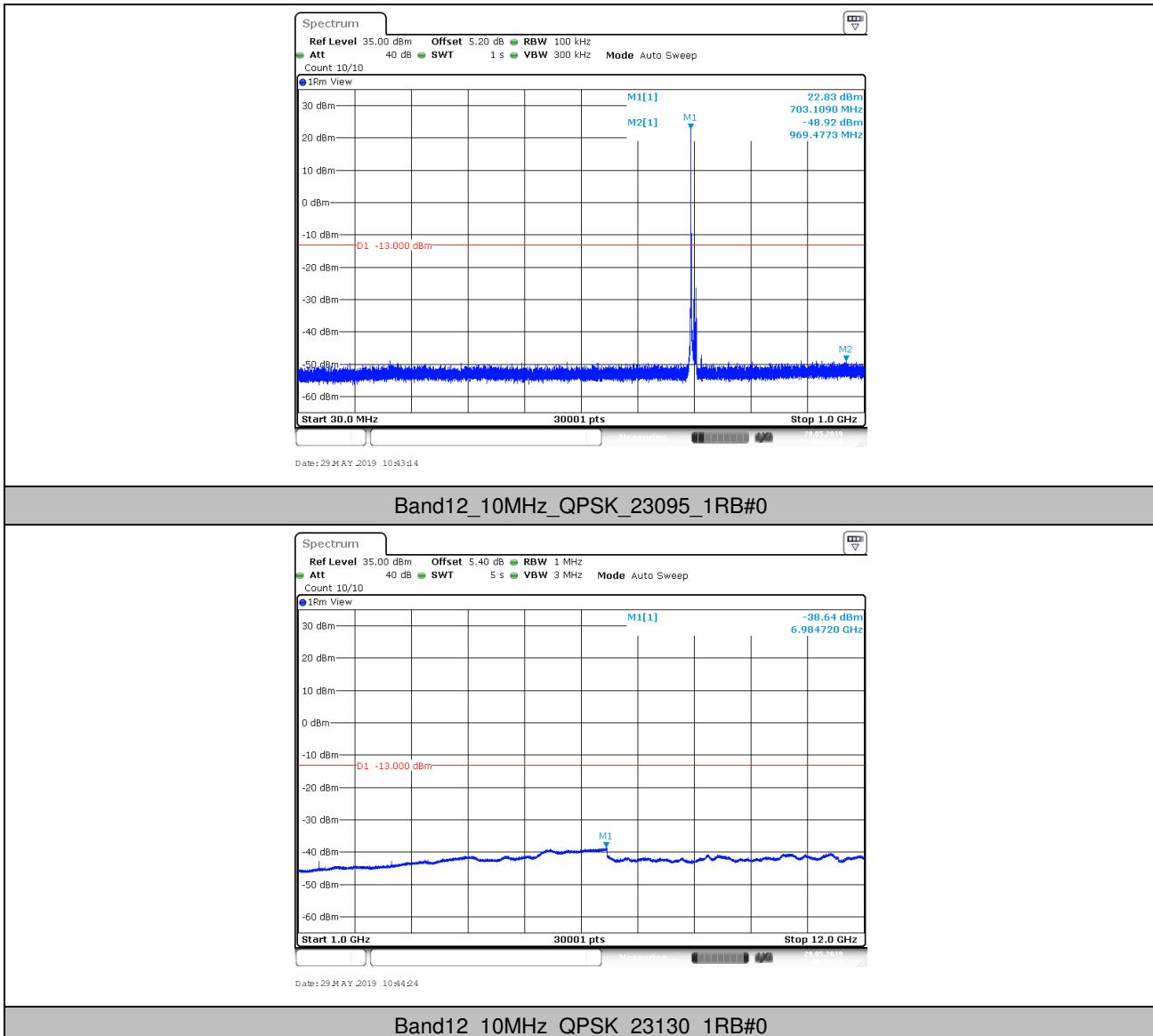


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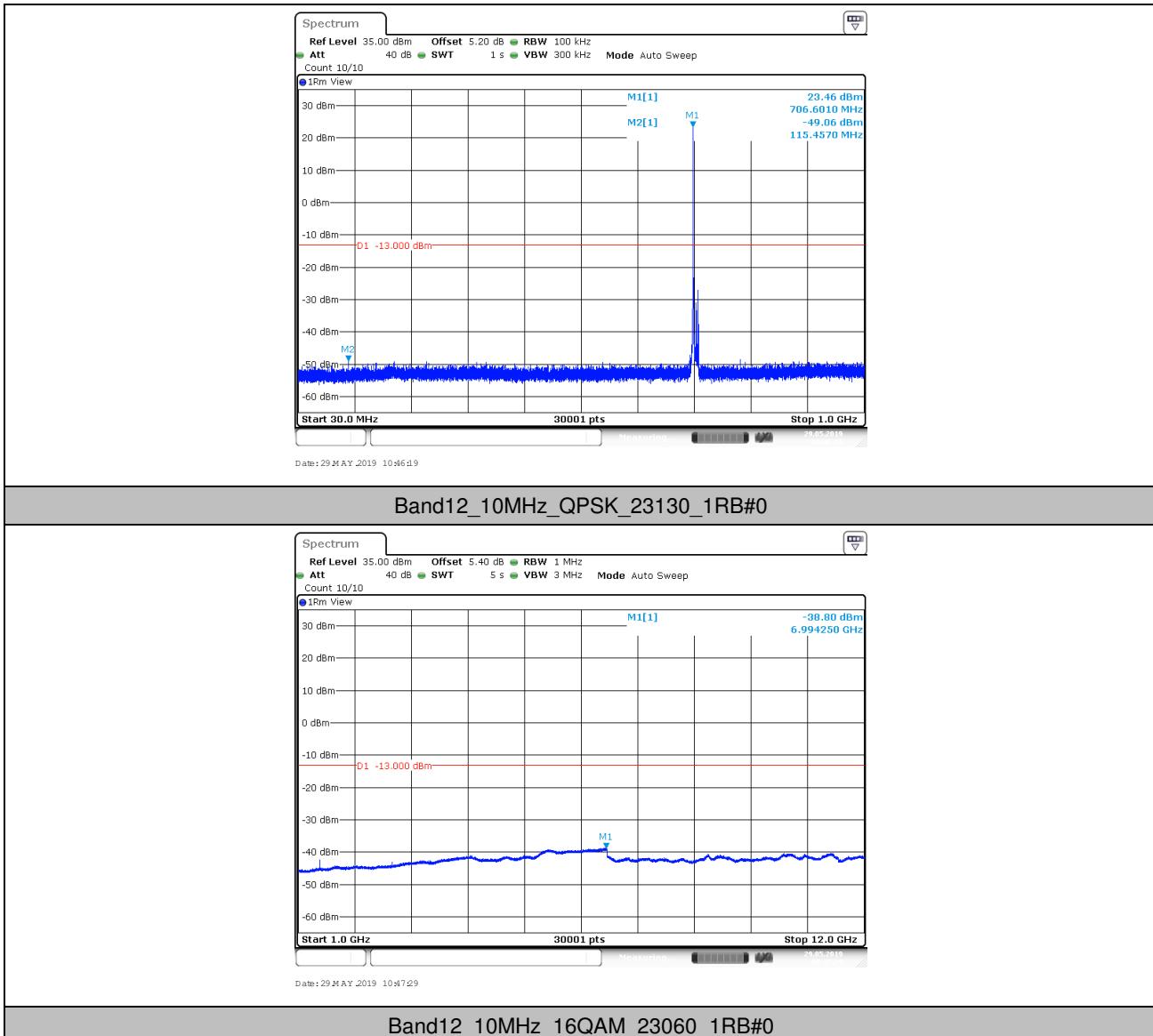


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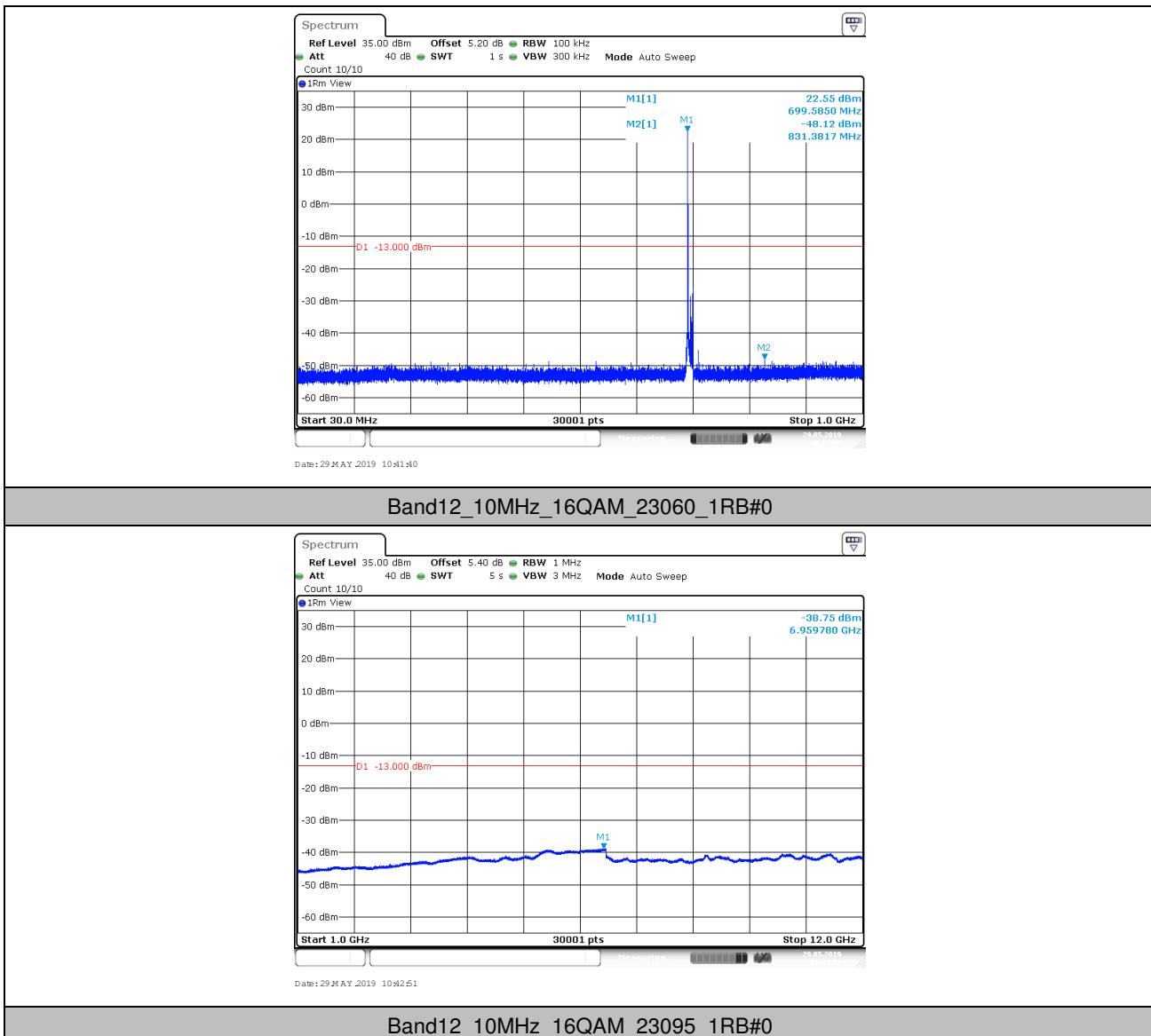


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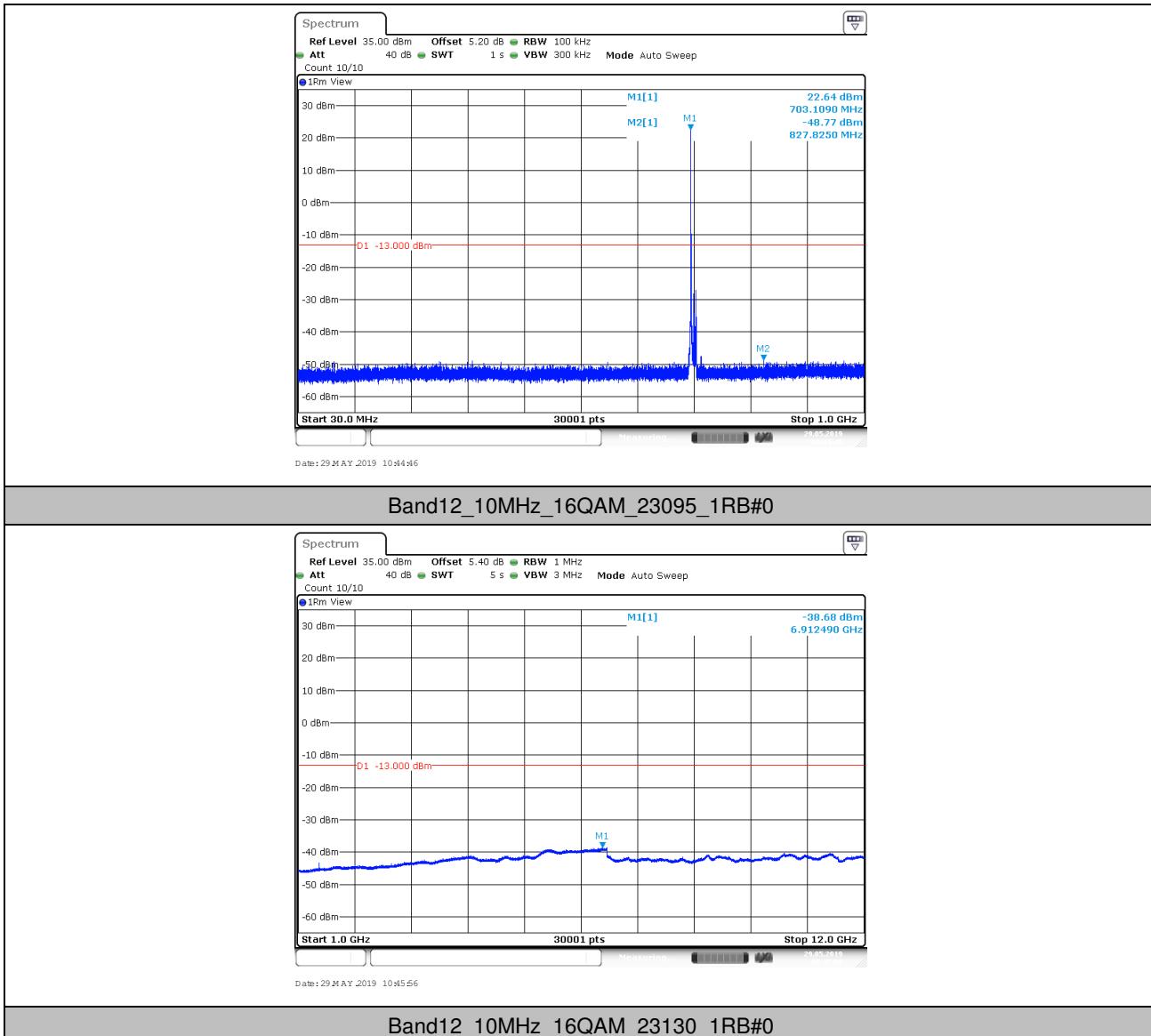
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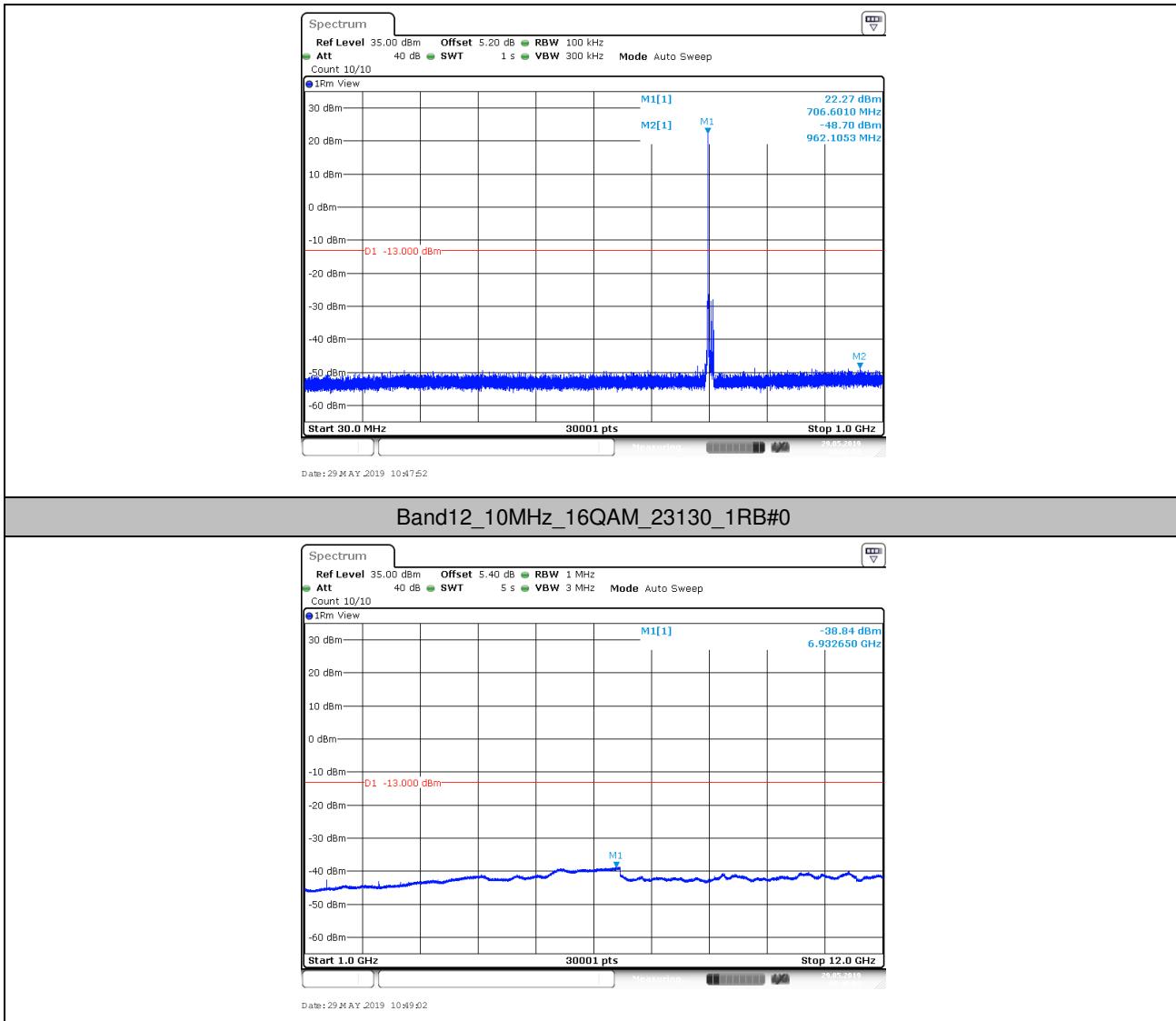


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## 7. Field Strength of Spurious Radiation

### 7.1. Test BAND = LTE Band 12

#### 7.1.1. Test Mode =LTE/TM1 10MHz

##### 7.1.1.1. Test Channel = LCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 56.226667       | -80.53      | -13.00           | 67.53       | Vertical     |
| 618.666667      | -76.71      | -13.00           | 63.71       | Vertical     |
| 1399.000000     | -55.80      | -13.00           | 42.80       | Vertical     |
| 2798.500000     | -54.69      | -13.00           | 41.69       | Vertical     |
| 3497.737500     | -59.09      | -13.00           | 46.09       | Vertical     |
| 5502.825000     | -65.24      | -13.00           | 52.24       | Vertical     |
| 62.993333       | -75.86      | -13.00           | 62.86       | Horizontal   |
| 169.580000      | -82.16      | -13.00           | 69.16       | Horizontal   |
| 1399.000000     | -66.90      | -13.00           | 53.90       | Horizontal   |
| 2798.500000     | -56.60      | -13.00           | 43.60       | Horizontal   |
| 3497.737500     | -62.80      | -13.00           | 49.80       | Horizontal   |
| 6024.450000     | -63.82      | -13.00           | 50.82       | Horizontal   |

##### 7.1.1.2. Test Channel = MCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 64.253333       | -79.03      | -13.00           | 66.03       | Vertical     |
| 626.366667      | -76.37      | -13.00           | 63.37       | Vertical     |
| 1406.000000     | -56.99      | -13.00           | 43.99       | Vertical     |
| 2812.500000     | -56.61      | -13.00           | 43.61       | Vertical     |
| 3515.287500     | -64.76      | -13.00           | 51.76       | Vertical     |
| 6224.325000     | -64.43      | -13.00           | 51.43       | Vertical     |
| 56.133333       | -75.83      | -13.00           | 62.83       | Horizontal   |
| 168.040000      | -82.03      | -13.00           | 69.03       | Horizontal   |
| 1406.000000     | -64.61      | -13.00           | 51.61       | Horizontal   |
| 2812.500000     | -56.63      | -13.00           | 43.63       | Horizontal   |
| 3515.287500     | -64.05      | -13.00           | 51.05       | Horizontal   |
| 6023.962500     | -63.83      | -13.00           | 50.83       | Horizontal   |

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### 7.1.1.3. Test Channel = HCH

| Frequency (MHz) | Level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
|-----------------|-------------|------------------|-------------|--------------|
| 80.680000       | -80.35      | -13.00           | 67.35       | Vertical     |
| 480.387500      | -79.85      | -13.00           | 66.85       | Vertical     |
| 1413.000000     | -57.97      | -13.00           | 44.97       | Vertical     |
| 2826.500000     | -57.58      | -13.00           | 44.58       | Vertical     |
| 3532.350000     | -67.44      | -13.00           | 54.44       | Vertical     |
| 5957.175000     | -64.40      | -13.00           | 51.40       | Vertical     |
| 62.153333       | -75.52      | -13.00           | 62.52       | Horizontal   |
| 169.626667      | -83.00      | -13.00           | 70.00       | Horizontal   |
| 1413.000000     | -65.34      | -13.00           | 52.34       | Horizontal   |
| 2800.000000     | -57.03      | -13.00           | 44.03       | Horizontal   |
| 4236.300000     | -65.56      | -13.00           | 52.56       | Horizontal   |
| 7925.700000     | -62.43      | -13.00           | 49.43       | Horizontal   |

**Remark:**

The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.

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



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## 8. Frequency Stability

### 8.1. Frequency Vs Voltage

| Voltage |           |            |         |              |               |                  |                |                 |             |         |
|---------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| BAND    | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band12  | 10MHz     | QPSK       | 23060   | 50RB#0       | VL            | NT               | 1.30           | 0.001847        | ±2.5        | PASS    |
| Band12  | 10MHz     | QPSK       | 23060   | 50RB#0       | VN            | NT               | 2.90           | 0.004119        | ±2.5        | PASS    |
| Band12  | 10MHz     | QPSK       | 23060   | 50RB#0       | VH            | NT               | 1.50           | 0.002131        | ±2.5        | PASS    |
| Band12  | 10MHz     | QPSK       | 23095   | 50RB#0       | VL            | NT               | -1.10          | -0.001555       | ±2.5        | PASS    |
| Band12  | 10MHz     | QPSK       | 23095   | 50RB#0       | VN            | NT               | -0.50          | -0.000707       | ±2.5        | PASS    |
| Band12  | 10MHz     | QPSK       | 23095   | 50RB#0       | VH            | NT               | -0.10          | -0.000141       | ±2.5        | PASS    |
| Band12  | 10MHz     | QPSK       | 23130   | 50RB#0       | VL            | NT               | -1.70          | -0.002391       | ±2.5        | PASS    |
| Band12  | 10MHz     | QPSK       | 23130   | 50RB#0       | VN            | NT               | -1.90          | -0.002672       | ±2.5        | PASS    |
| Band12  | 10MHz     | QPSK       | 23130   | 50RB#0       | VH            | NT               | -1.20          | -0.001688       | ±2.5        | PASS    |
| Band12  | 10MHz     | 16QAM      | 23060   | 50RB#0       | VL            | NT               | 1.80           | 0.002557        | ±2.5        | PASS    |
| Band12  | 10MHz     | 16QAM      | 23060   | 50RB#0       | VN            | NT               | 1.70           | 0.002415        | ±2.5        | PASS    |
| Band12  | 10MHz     | 16QAM      | 23060   | 50RB#0       | VH            | NT               | 1.90           | 0.002699        | ±2.5        | PASS    |
| Band12  | 10MHz     | 16QAM      | 23095   | 50RB#0       | VL            | NT               | 0.80           | 0.001131        | ±2.5        | PASS    |
| Band12  | 10MHz     | 16QAM      | 23095   | 50RB#0       | VN            | NT               | -0.70          | -0.000989       | ±2.5        | PASS    |
| Band12  | 10MHz     | 16QAM      | 23095   | 50RB#0       | VH            | NT               | 1.20           | 0.001696        | ±2.5        | PASS    |
| Band12  | 10MHz     | 16QAM      | 23130   | 50RB#0       | VL            | NT               | -1.80          | -0.002532       | ±2.5        | PASS    |
| Band12  | 10MHz     | 16QAM      | 23130   | 50RB#0       | VN            | NT               | -0.80          | -0.001125       | ±2.5        | PASS    |
| Band12  | 10MHz     | 16QAM      | 23130   | 50RB#0       | VH            | NT               | -1.30          | -0.001828       | ±2.5        | PASS    |

### 8.2. Frequency Vs Temperature

| Temperature |           |            |         |              |               |                  |                |                 |             |         |
|-------------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| BAND        | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band12      | 10MHz     | QPSK       | 23060   | 50RB#0       | NV            | -30              | 2.10           | 0.002983        | ±2.5        | PASS    |
| Band12      | 10MHz     | QPSK       | 23060   | 50RB#0       | NV            | -20              | 1.70           | 0.002415        | ±2.5        | PASS    |
| Band12      | 10MHz     | QPSK       | 23060   | 50RB#0       | NV            | 0                | 3.20           | 0.004545        | ±2.5        | PASS    |
| Band12      | 10MHz     | QPSK       | 23060   | 50RB#0       | NV            | 10               | 0.70           | 0.000994        | ±2.5        | PASS    |
| Band12      | 10MHz     | QPSK       | 23060   | 50RB#0       | NV            | 20               | 1.60           | 0.002273        | ±2.5        | PASS    |
| Band12      | 10MHz     | QPSK       | 23060   | 50RB#0       | NV            | 30               | 1.00           | 0.001420        | ±2.5        | PASS    |
| Band12      | 10MHz     | QPSK       | 23060   | 50RB#0       | NV            | 40               | 1.70           | 0.002415        | ±2.5        | PASS    |
| Band12      | 10MHz     | QPSK       | 23060   | 50RB#0       | NV            | 50               | 0.80           | 0.001136        | ±2.5        | PASS    |

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|        |       |       |       |        |    |     |       |           |      |      |
|--------|-------|-------|-------|--------|----|-----|-------|-----------|------|------|
| Band12 | 10MHz | QPSK  | 23095 | 50RB#0 | NV | -30 | -1.70 | -0.002403 | ±2.5 | PASS |
| Band12 | 10MHz | QPSK  | 23095 | 50RB#0 | NV | -20 | -1.70 | -0.002403 | ±2.5 | PASS |
| Band12 | 10MHz | QPSK  | 23095 | 50RB#0 | NV | 0   | -0.20 | -0.000283 | ±2.5 | PASS |
| Band12 | 10MHz | QPSK  | 23095 | 50RB#0 | NV | 10  | -1.60 | -0.002261 | ±2.5 | PASS |
| Band12 | 10MHz | QPSK  | 23095 | 50RB#0 | NV | 20  | -0.70 | -0.000989 | ±2.5 | PASS |
| Band12 | 10MHz | QPSK  | 23095 | 50RB#0 | NV | 30  | 1.10  | 0.001555  | ±2.5 | PASS |
| Band12 | 10MHz | QPSK  | 23095 | 50RB#0 | NV | 40  | -0.40 | -0.000565 | ±2.5 | PASS |
| Band12 | 10MHz | QPSK  | 23095 | 50RB#0 | NV | 50  | -1.40 | -0.001979 | ±2.5 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 50RB#0 | NV | -30 | -1.90 | -0.002672 | ±2.5 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 50RB#0 | NV | -20 | -2.20 | -0.003094 | ±2.5 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 50RB#0 | NV | 0   | -2.30 | -0.003235 | ±2.5 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 50RB#0 | NV | 10  | -1.90 | -0.002672 | ±2.5 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 50RB#0 | NV | 20  | -0.60 | -0.000844 | ±2.5 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 50RB#0 | NV | 30  | -2.70 | -0.003797 | ±2.5 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 50RB#0 | NV | 40  | -1.70 | -0.002391 | ±2.5 | PASS |
| Band12 | 10MHz | QPSK  | 23130 | 50RB#0 | NV | 50  | -1.80 | -0.002532 | ±2.5 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 50RB#0 | NV | -30 | 1.90  | 0.002699  | ±2.5 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 50RB#0 | NV | -20 | 1.70  | 0.002415  | ±2.5 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 50RB#0 | NV | 0   | 2.20  | 0.003125  | ±2.5 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 50RB#0 | NV | 10  | 2.10  | 0.002983  | ±2.5 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 50RB#0 | NV | 20  | 1.80  | 0.002557  | ±2.5 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 50RB#0 | NV | 30  | 1.00  | 0.001420  | ±2.5 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 50RB#0 | NV | 40  | 1.30  | 0.001847  | ±2.5 | PASS |
| Band12 | 10MHz | 16QAM | 23060 | 50RB#0 | NV | 50  | 1.80  | 0.002557  | ±2.5 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 50RB#0 | NV | -30 | -0.50 | -0.000707 | ±2.5 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 50RB#0 | NV | -20 | -1.20 | -0.001696 | ±2.5 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 50RB#0 | NV | 0   | -0.90 | -0.001272 | ±2.5 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 50RB#0 | NV | 10  | -1.90 | -0.002686 | ±2.5 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 50RB#0 | NV | 20  | -0.80 | -0.001131 | ±2.5 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 50RB#0 | NV | 30  | 0.60  | 0.000848  | ±2.5 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 50RB#0 | NV | 40  | -0.80 | -0.001131 | ±2.5 | PASS |
| Band12 | 10MHz | 16QAM | 23095 | 50RB#0 | NV | 50  | 0.10  | 0.000141  | ±2.5 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 50RB#0 | NV | -30 | -0.90 | -0.001266 | ±2.5 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 50RB#0 | NV | -20 | -1.50 | -0.002110 | ±2.5 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 50RB#0 | NV | 0   | -2.10 | -0.002954 | ±2.5 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 50RB#0 | NV | 10  | -0.40 | -0.000563 | ±2.5 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 50RB#0 | NV | 20  | -1.60 | -0.002250 | ±2.5 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 50RB#0 | NV | 30  | -2.20 | -0.003094 | ±2.5 | PASS |

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|        |       |       |       |        |    |    |       |           |      |      |
|--------|-------|-------|-------|--------|----|----|-------|-----------|------|------|
| Band12 | 10MHz | 16QAM | 23130 | 50RB#0 | NV | 40 | -1.80 | -0.002532 | ±2.5 | PASS |
| Band12 | 10MHz | 16QAM | 23130 | 50RB#0 | NV | 50 | -0.80 | -0.001125 | ±2.5 | PASS |

The End

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