

## **Appendix for LTE 7C**

Product Name: 5G Window CPE

Model No: TITAN 5100

## Appendix A: Average Power Output Data

### Test Result

| Band | Bandwidth   | Modulation  | Channel     | RB Configuration | Result(dBm) | Verdict |
|------|-------------|-------------|-------------|------------------|-------------|---------|
| 7-7  | 10MHz-20MHz | QPSK-QPSK   | 20805-20949 | 1RB#49-0RB#0     | 21.38       | PASS    |
| 7-7  | 10MHz-20MHz | 16QAM-16QAM | 20805-20949 | 1RB#49-0RB#0     | 20.59       | PASS    |
| 7-7  | 10MHz-20MHz | QPSK-QPSK   | 20805-20949 | 1RB#0-1RB#99     | 13.94       | PASS    |
| 7-7  | 10MHz-20MHz | 16QAM-16QAM | 20805-20949 | 1RB#0-1RB#99     | 13.93       | PASS    |
| 7-7  | 10MHz-20MHz | QPSK-QPSK   | 20805-20949 | 12RB#0-0RB#0     | 21.55       | PASS    |
| 7-7  | 10MHz-20MHz | 16QAM-16QAM | 20805-20949 | 12RB#0-0RB#0     | 20.52       | PASS    |
| 7-7  | 10MHz-20MHz | QPSK-QPSK   | 20805-20949 | 50RB#0-100RB#0   | 20.45       | PASS    |
| 7-7  | 10MHz-20MHz | QPSK-QPSK   | 20805-20949 | 1RB#0-0RB#0      | 21.54       | PASS    |
| 7-7  | 10MHz-20MHz | 16QAM-16QAM | 20805-20949 | 1RB#0-0RB#0      | 20.30       | PASS    |
| 7-7  | 10MHz-20MHz | 16QAM-16QAM | 20805-20949 | 50RB#0-100RB#0   | 19.45       | PASS    |
| 7-7  | 10MHz-20MHz | QPSK-QPSK   | 21006-21150 | 1RB#0-0RB#0      | 21.71       | PASS    |
| 7-7  | 10MHz-20MHz | 16QAM-16QAM | 21006-21150 | 1RB#0-0RB#0      | 20.68       | PASS    |
| 7-7  | 10MHz-20MHz | QPSK-QPSK   | 21006-21150 | 1RB#49-0RB#0     | 21.72       | PASS    |
| 7-7  | 10MHz-20MHz | 16QAM-16QAM | 21006-21150 | 1RB#49-0RB#0     | 20.53       | PASS    |
| 7-7  | 10MHz-20MHz | QPSK-QPSK   | 21006-21150 | 1RB#0-1RB#99     | 15.87       | PASS    |
| 7-7  | 10MHz-20MHz | 16QAM-16QAM | 21006-21150 | 1RB#0-1RB#99     | 14.16       | PASS    |
| 7-7  | 10MHz-20MHz | QPSK-QPSK   | 21006-21150 | 12RB#0-0RB#0     | 21.79       | PASS    |
| 7-7  | 10MHz-20MHz | 16QAM-16QAM | 21006-21150 | 12RB#0-0RB#0     | 20.77       | PASS    |
| 7-7  | 10MHz-20MHz | QPSK-QPSK   | 21006-21150 | 50RB#0-100RB#0   | 20.65       | PASS    |
| 7-7  | 10MHz-20MHz | 16QAM-16QAM | 21006-21150 | 50RB#0-100RB#0   | 19.65       | PASS    |
| 7-7  | 10MHz-20MHz | QPSK-QPSK   | 21206-21350 | 1RB#0-0RB#0      | 21.88       | PASS    |
| 7-7  | 10MHz-20MHz | 16QAM-16QAM | 21206-21350 | 1RB#0-0RB#0      | 20.86       | PASS    |
| 7-7  | 10MHz-20MHz | QPSK-QPSK   | 21206-21350 | 1RB#49-0RB#0     | 21.75       | PASS    |
| 7-7  | 10MHz-20MHz | 16QAM-16QAM | 21206-21350 | 1RB#49-0RB#0     | 20.89       | PASS    |
| 7-7  | 10MHz-20MHz | QPSK-QPSK   | 21206-21350 | 1RB#0-1RB#99     | 16.08       | PASS    |
| 7-7  | 10MHz-20MHz | 16QAM-16QAM | 21206-21350 | 1RB#0-1RB#99     | 14.19       | PASS    |
| 7-7  | 10MHz-20MHz | QPSK-QPSK   | 21206-21350 | 12RB#0-0RB#0     | 21.97       | PASS    |
| 7-7  | 10MHz-20MHz | 16QAM-16QAM | 21206-21350 | 12RB#0-0RB#0     | 20.91       | PASS    |
| 7-7  | 10MHz-20MHz | QPSK-QPSK   | 21206-21350 | 50RB#0-100RB#0   | 20.67       | PASS    |
| 7-7  | 10MHz-20MHz | 16QAM-16QAM | 21206-21350 | 50RB#0-100RB#0   | 19.63       | PASS    |
| 7-7  | 15MHz-10MHz | QPSK-QPSK   | 20825-20945 | 1RB#0-0RB#0      | 21.54       | PASS    |
| 7-7  | 15MHz-10MHz | 16QAM-16QAM | 20825-20945 | 1RB#0-0RB#0      | 20.64       | PASS    |
| 7-7  | 15MHz-10MHz | QPSK-QPSK   | 20825-20945 | 1RB#74-0RB#0     | 21.69       | PASS    |
| 7-7  | 15MHz-10MHz | 16QAM-16QAM | 20825-20945 | 1RB#74-0RB#0     | 20.75       | PASS    |

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| 7-7 | 15MHz-10MHz | QPSK-QPSK   | 20825-20945 | 1RB#0-1RB#49  | 14.04 | PASS |
| 7-7 | 15MHz-10MHz | 16QAM-16QAM | 20825-20945 | 1RB#0-1RB#49  | 13.98 | PASS |
| 7-7 | 15MHz-10MHz | QPSK-QPSK   | 20825-20945 | 16RB#0-0RB#0  | 20.62 | PASS |
| 7-7 | 15MHz-10MHz | 16QAM-16QAM | 20825-20945 | 16RB#0-0RB#0  | 19.68 | PASS |
| 7-7 | 15MHz-10MHz | QPSK-QPSK   | 20825-20945 | 75RB#0-50RB#0 | 20.56 | PASS |
| 7-7 | 15MHz-10MHz | 16QAM-16QAM | 20825-20945 | 75RB#0-50RB#0 | 19.56 | PASS |
| 7-7 | 15MHz-10MHz | QPSK-QPSK   | 21051-21171 | 1RB#0-0RB#0   | 21.75 | PASS |
| 7-7 | 15MHz-10MHz | 16QAM-16QAM | 21051-21171 | 1RB#0-0RB#0   | 20.86 | PASS |
| 7-7 | 15MHz-10MHz | QPSK-QPSK   | 21051-21171 | 1RB#74-0RB#0  | 21.79 | PASS |
| 7-7 | 15MHz-10MHz | 16QAM-16QAM | 21051-21171 | 1RB#74-0RB#0  | 20.93 | PASS |
| 7-7 | 15MHz-10MHz | QPSK-QPSK   | 21051-21171 | 1RB#0-1RB#49  | 15.70 | PASS |
| 7-7 | 15MHz-10MHz | 16QAM-16QAM | 21051-21171 | 1RB#0-1RB#49  | 14.16 | PASS |
| 7-7 | 15MHz-10MHz | QPSK-QPSK   | 21051-21171 | 16RB#0-0RB#0  | 20.91 | PASS |
| 7-7 | 15MHz-10MHz | 16QAM-16QAM | 21051-21171 | 16RB#0-0RB#0  | 19.84 | PASS |
| 7-7 | 15MHz-10MHz | QPSK-QPSK   | 21051-21171 | 75RB#0-50RB#0 | 20.71 | PASS |
| 7-7 | 15MHz-10MHz | 16QAM-16QAM | 21051-21171 | 75RB#0-50RB#0 | 19.71 | PASS |
| 7-7 | 15MHz-10MHz | QPSK-QPSK   | 21277-21397 | 1RB#0-0RB#0   | 21.96 | PASS |
| 7-7 | 15MHz-10MHz | 16QAM-16QAM | 21277-21397 | 1RB#0-0RB#0   | 20.78 | PASS |
| 7-7 | 15MHz-10MHz | QPSK-QPSK   | 21277-21397 | 1RB#74-0RB#0  | 21.72 | PASS |
| 7-7 | 15MHz-10MHz | 16QAM-16QAM | 21277-21397 | 1RB#74-0RB#0  | 20.92 | PASS |
| 7-7 | 15MHz-10MHz | QPSK-QPSK   | 21277-21397 | 1RB#0-1RB#49  | 16.50 | PASS |
| 7-7 | 15MHz-10MHz | 16QAM-16QAM | 21277-21397 | 1RB#0-1RB#49  | 14.19 | PASS |
| 7-7 | 15MHz-10MHz | QPSK-QPSK   | 21277-21397 | 16RB#0-0RB#0  | 20.95 | PASS |
| 7-7 | 15MHz-10MHz | 16QAM-16QAM | 21277-21397 | 16RB#0-0RB#0  | 20.00 | PASS |
| 7-7 | 15MHz-10MHz | QPSK-QPSK   | 21277-21397 | 75RB#0-50RB#0 | 20.69 | PASS |
| 7-7 | 15MHz-10MHz | 16QAM-16QAM | 21277-21397 | 75RB#0-50RB#0 | 19.73 | PASS |
| 7-7 | 15MHz-15MHz | QPSK-QPSK   | 20825-20975 | 1RB#0-0RB#0   | 21.62 | PASS |
| 7-7 | 15MHz-15MHz | 16QAM-16QAM | 20825-20975 | 1RB#0-0RB#0   | 20.60 | PASS |
| 7-7 | 15MHz-15MHz | QPSK-QPSK   | 20825-20975 | 1RB#74-0RB#0  | 21.63 | PASS |
| 7-7 | 15MHz-15MHz | 16QAM-16QAM | 20825-20975 | 1RB#74-0RB#0  | 20.61 | PASS |
| 7-7 | 15MHz-15MHz | QPSK-QPSK   | 20825-20975 | 1RB#0-1RB#74  | 14.10 | PASS |
| 7-7 | 15MHz-15MHz | 16QAM-16QAM | 20825-20975 | 1RB#0-1RB#74  | 14.09 | PASS |
| 7-7 | 15MHz-15MHz | QPSK-QPSK   | 20825-20975 | 16RB#0-0RB#0  | 21.71 | PASS |
| 7-7 | 15MHz-15MHz | 16QAM-16QAM | 20825-20975 | 16RB#0-0RB#0  | 20.77 | PASS |
| 7-7 | 15MHz-15MHz | QPSK-QPSK   | 20825-20975 | 75RB#0-75RB#0 | 20.64 | PASS |
| 7-7 | 15MHz-15MHz | 16QAM-16QAM | 20825-20975 | 75RB#0-75RB#0 | 19.64 | PASS |
| 7-7 | 15MHz-15MHz | QPSK-QPSK   | 21025-21175 | 1RB#0-0RB#0   | 21.85 | PASS |
| 7-7 | 15MHz-15MHz | 16QAM-16QAM | 21025-21175 | 1RB#0-0RB#0   | 20.83 | PASS |
| 7-7 | 15MHz-15MHz | QPSK-QPSK   | 21025-21175 | 1RB#74-0RB#0  | 21.94 | PASS |
| 7-7 | 15MHz-15MHz | 16QAM-16QAM | 21025-21175 | 1RB#74-0RB#0  | 20.90 | PASS |
| 7-7 | 15MHz-15MHz | QPSK-QPSK   | 21025-21175 | 1RB#0-1RB#74  | 15.64 | PASS |

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| 7-7 | 15MHz-15MHz | 16QAM-16QAM | 21025-21175 | 1RB#0-1RB#74   | 14.31 | PASS |
| 7-7 | 15MHz-15MHz | QPSK-QPSK   | 21025-21175 | 16RB#0-0RB#0   | 21.89 | PASS |
| 7-7 | 15MHz-15MHz | 16QAM-16QAM | 21025-21175 | 16RB#0-0RB#0   | 20.93 | PASS |
| 7-7 | 15MHz-15MHz | QPSK-QPSK   | 21025-21175 | 75RB#0-75RB#0  | 20.78 | PASS |
| 7-7 | 15MHz-15MHz | 16QAM-16QAM | 21025-21175 | 75RB#0-75RB#0  | 19.76 | PASS |
| 7-7 | 15MHz-15MHz | QPSK-QPSK   | 21225-21375 | 1RB#0-0RB#0    | 22.01 | PASS |
| 7-7 | 15MHz-15MHz | 16QAM-16QAM | 21225-21375 | 1RB#0-0RB#0    | 20.98 | PASS |
| 7-7 | 15MHz-15MHz | QPSK-QPSK   | 21225-21375 | 1RB#74-0RB#0   | 21.97 | PASS |
| 7-7 | 15MHz-15MHz | 16QAM-16QAM | 21225-21375 | 1RB#74-0RB#0   | 20.83 | PASS |
| 7-7 | 15MHz-15MHz | QPSK-QPSK   | 21225-21375 | 1RB#0-1RB#74   | 16.22 | PASS |
| 7-7 | 15MHz-15MHz | 16QAM-16QAM | 21225-21375 | 1RB#0-1RB#74   | 14.21 | PASS |
| 7-7 | 15MHz-15MHz | QPSK-QPSK   | 21225-21375 | 16RB#0-0RB#0   | 22.07 | PASS |
| 7-7 | 15MHz-15MHz | 16QAM-16QAM | 21225-21375 | 16RB#0-0RB#0   | 21.05 | PASS |
| 7-7 | 15MHz-15MHz | QPSK-QPSK   | 21225-21375 | 75RB#0-75RB#0  | 20.75 | PASS |
| 7-7 | 15MHz-15MHz | 16QAM-16QAM | 21225-21375 | 75RB#0-75RB#0  | 19.79 | PASS |
| 7-7 | 15MHz-20MHz | QPSK-QPSK   | 20828-20999 | 1RB#0-0RB#0    | 21.71 | PASS |
| 7-7 | 15MHz-20MHz | 16QAM-16QAM | 20828-20999 | 1RB#0-0RB#0    | 20.85 | PASS |
| 7-7 | 15MHz-20MHz | QPSK-QPSK   | 20828-20999 | 1RB#74-0RB#0   | 21.72 | PASS |
| 7-7 | 15MHz-20MHz | 16QAM-16QAM | 20828-20999 | 1RB#74-0RB#0   | 20.84 | PASS |
| 7-7 | 15MHz-20MHz | QPSK-QPSK   | 20828-20999 | 1RB#0-1RB#99   | 13.18 | PASS |
| 7-7 | 15MHz-20MHz | 16QAM-16QAM | 20828-20999 | 1RB#0-1RB#99   | 13.15 | PASS |
| 7-7 | 15MHz-20MHz | QPSK-QPSK   | 20828-20999 | 16RB#0-0RB#0   | 21.73 | PASS |
| 7-7 | 15MHz-20MHz | 16QAM-16QAM | 20828-20999 | 16RB#0-0RB#0   | 20.74 | PASS |
| 7-7 | 15MHz-20MHz | QPSK-QPSK   | 20828-20999 | 75RB#0-100RB#0 | 20.65 | PASS |
| 7-7 | 15MHz-20MHz | 16QAM-16QAM | 20828-20999 | 75RB#0-100RB#0 | 19.66 | PASS |
| 7-7 | 15MHz-20MHz | QPSK-QPSK   | 21003-21174 | 1RB#0-0RB#0    | 21.86 | PASS |
| 7-7 | 15MHz-20MHz | 16QAM-16QAM | 21003-21174 | 1RB#0-0RB#0    | 20.78 | PASS |
| 7-7 | 15MHz-20MHz | QPSK-QPSK   | 21003-21174 | 1RB#74-0RB#0   | 21.83 | PASS |
| 7-7 | 15MHz-20MHz | 16QAM-16QAM | 21003-21174 | 1RB#74-0RB#0   | 20.82 | PASS |
| 7-7 | 15MHz-20MHz | QPSK-QPSK   | 21003-21174 | 1RB#0-1RB#99   | 15.56 | PASS |
| 7-7 | 15MHz-20MHz | 16QAM-16QAM | 21003-21174 | 1RB#0-1RB#99   | 14.23 | PASS |
| 7-7 | 15MHz-20MHz | QPSK-QPSK   | 21003-21174 | 16RB#0-0RB#0   | 21.96 | PASS |
| 7-7 | 15MHz-20MHz | 16QAM-16QAM | 21003-21174 | 16RB#0-0RB#0   | 20.96 | PASS |
| 7-7 | 15MHz-20MHz | QPSK-QPSK   | 21003-21174 | 75RB#0-100RB#0 | 20.80 | PASS |
| 7-7 | 15MHz-20MHz | 16QAM-16QAM | 21003-21174 | 75RB#0-100RB#0 | 19.77 | PASS |
| 7-7 | 15MHz-20MHz | QPSK-QPSK   | 21179-21350 | 1RB#0-0RB#0    | 22.04 | PASS |
| 7-7 | 15MHz-20MHz | 16QAM-16QAM | 21179-21350 | 1RB#0-0RB#0    | 20.97 | PASS |
| 7-7 | 15MHz-20MHz | QPSK-QPSK   | 21179-21350 | 1RB#74-0RB#0   | 21.91 | PASS |
| 7-7 | 15MHz-20MHz | 16QAM-16QAM | 21179-21350 | 1RB#74-0RB#0   | 20.96 | PASS |
| 7-7 | 15MHz-20MHz | QPSK-QPSK   | 21179-21350 | 1RB#0-1RB#99   | 16.05 | PASS |
| 7-7 | 15MHz-20MHz | 16QAM-16QAM | 21179-21350 | 1RB#0-1RB#99   | 14.27 | PASS |

|     |             |             |             |                |       |      |
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| 7-7 | 15MHz-20MHz | QPSK-QPSK   | 21179-21350 | 16RB#0-0RB#0   | 22.12 | PASS |
| 7-7 | 15MHz-20MHz | 16QAM-16QAM | 21179-21350 | 16RB#0-0RB#0   | 21.13 | PASS |
| 7-7 | 15MHz-20MHz | QPSK-QPSK   | 21179-21350 | 75RB#0-100RB#0 | 20.81 | PASS |
| 7-7 | 15MHz-20MHz | 16QAM-16QAM | 21179-21350 | 75RB#0-100RB#0 | 19.86 | PASS |
| 7-7 | 20MHz-10MHz | QPSK-QPSK   | 20850-20994 | 1RB#0-0RB#0    | 21.79 | PASS |
| 7-7 | 20MHz-10MHz | 16QAM-16QAM | 20850-20994 | 1RB#0-0RB#0    | 20.60 | PASS |
| 7-7 | 20MHz-10MHz | QPSK-QPSK   | 20850-20994 | 1RB#99-0RB#0   | 21.77 | PASS |
| 7-7 | 20MHz-10MHz | 16QAM-16QAM | 20850-20994 | 1RB#99-0RB#0   | 20.88 | PASS |
| 7-7 | 20MHz-10MHz | QPSK-QPSK   | 20850-20994 | 1RB#0-1RB#49   | 13.23 | PASS |
| 7-7 | 20MHz-10MHz | 16QAM-16QAM | 20850-20994 | 1RB#0-1RB#49   | 13.28 | PASS |
| 7-7 | 20MHz-10MHz | QPSK-QPSK   | 20850-20994 | 18RB#0-0RB#0   | 20.79 | PASS |
| 7-7 | 20MHz-10MHz | 16QAM-16QAM | 20850-20994 | 18RB#0-0RB#0   | 19.74 | PASS |
| 7-7 | 20MHz-10MHz | QPSK-QPSK   | 20850-20994 | 100RB#0-50RB#0 | 20.22 | PASS |
| 7-7 | 20MHz-10MHz | 16QAM-16QAM | 20850-20994 | 100RB#0-50RB#0 | 19.38 | PASS |
| 7-7 | 20MHz-10MHz | QPSK-QPSK   | 21051-21195 | 1RB#0-0RB#0    | 21.93 | PASS |
| 7-7 | 20MHz-10MHz | 16QAM-16QAM | 21051-21195 | 1RB#0-0RB#0    | 20.88 | PASS |
| 7-7 | 20MHz-10MHz | QPSK-QPSK   | 21051-21195 | 1RB#99-0RB#0   | 22.16 | PASS |
| 7-7 | 20MHz-10MHz | 16QAM-16QAM | 21051-21195 | 1RB#99-0RB#0   | 21.01 | PASS |
| 7-7 | 20MHz-10MHz | QPSK-QPSK   | 21051-21195 | 1RB#0-1RB#49   | 15.52 | PASS |
| 7-7 | 20MHz-10MHz | 16QAM-16QAM | 21051-21195 | 1RB#0-1RB#49   | 14.31 | PASS |
| 7-7 | 20MHz-10MHz | QPSK-QPSK   | 21051-21195 | 18RB#0-0RB#0   | 20.97 | PASS |
| 7-7 | 20MHz-10MHz | 16QAM-16QAM | 21051-21195 | 18RB#0-0RB#0   | 20.01 | PASS |
| 7-7 | 20MHz-10MHz | QPSK-QPSK   | 21051-21195 | 100RB#0-50RB#0 | 20.86 | PASS |
| 7-7 | 20MHz-10MHz | 16QAM-16QAM | 21051-21195 | 100RB#0-50RB#0 | 19.85 | PASS |
| 7-7 | 20MHz-10MHz | QPSK-QPSK   | 21251-21395 | 1RB#0-0RB#0    | 22.05 | PASS |
| 7-7 | 20MHz-10MHz | 16QAM-16QAM | 21251-21395 | 1RB#0-0RB#0    | 21.12 | PASS |
| 7-7 | 20MHz-10MHz | QPSK-QPSK   | 21251-21395 | 1RB#99-0RB#0   | 21.94 | PASS |
| 7-7 | 20MHz-10MHz | 16QAM-16QAM | 21251-21395 | 1RB#99-0RB#0   | 20.81 | PASS |
| 7-7 | 20MHz-10MHz | QPSK-QPSK   | 21251-21395 | 1RB#0-1RB#49   | 16.58 | PASS |
| 7-7 | 20MHz-10MHz | 16QAM-16QAM | 21251-21395 | 1RB#0-1RB#49   | 14.28 | PASS |
| 7-7 | 20MHz-10MHz | QPSK-QPSK   | 21251-21395 | 18RB#0-0RB#0   | 21.09 | PASS |
| 7-7 | 20MHz-10MHz | 16QAM-16QAM | 21251-21395 | 18RB#0-0RB#0   | 20.12 | PASS |
| 7-7 | 20MHz-10MHz | QPSK-QPSK   | 21251-21395 | 100RB#0-50RB#0 | 20.82 | PASS |
| 7-7 | 20MHz-10MHz | 16QAM-16QAM | 21251-21395 | 100RB#0-50RB#0 | 19.86 | PASS |
| 7-7 | 20MHz-15MHz | QPSK-QPSK   | 20850-21021 | 1RB#0-0RB#0    | 21.85 | PASS |
| 7-7 | 20MHz-15MHz | 16QAM-16QAM | 20850-21021 | 1RB#0-0RB#0    | 20.63 | PASS |
| 7-7 | 20MHz-15MHz | QPSK-QPSK   | 20850-21021 | 1RB#99-0RB#0   | 21.95 | PASS |
| 7-7 | 20MHz-15MHz | 16QAM-16QAM | 20850-21021 | 1RB#99-0RB#0   | 20.77 | PASS |
| 7-7 | 20MHz-15MHz | QPSK-QPSK   | 20850-21021 | 1RB#0-1RB#74   | 13.20 | PASS |
| 7-7 | 20MHz-15MHz | 16QAM-16QAM | 20850-21021 | 1RB#0-1RB#74   | 13.11 | PASS |
| 7-7 | 20MHz-15MHz | QPSK-QPSK   | 20850-21021 | 18RB#0-0RB#0   | 20.81 | PASS |

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| 7-7 | 20MHz-15MHz | 16QAM-16QAM | 20850-21021 | 18RB#0-0RB#0    | 19.80 | PASS |
| 7-7 | 20MHz-15MHz | QPSK-QPSK   | 20850-21021 | 100RB#0-75RB#0  | 20.58 | PASS |
| 7-7 | 20MHz-15MHz | 16QAM-16QAM | 20850-21021 | 100RB#0-75RB#0  | 19.75 | PASS |
| 7-7 | 20MHz-15MHz | QPSK-QPSK   | 21026-21197 | 1RB#0-0RB#0     | 21.83 | PASS |
| 7-7 | 20MHz-15MHz | 16QAM-16QAM | 21026-21197 | 1RB#0-0RB#0     | 21.02 | PASS |
| 7-7 | 20MHz-15MHz | QPSK-QPSK   | 21026-21197 | 1RB#99-0RB#0    | 21.99 | PASS |
| 7-7 | 20MHz-15MHz | 16QAM-16QAM | 21026-21197 | 1RB#99-0RB#0    | 21.02 | PASS |
| 7-7 | 20MHz-15MHz | QPSK-QPSK   | 21026-21197 | 1RB#0-1RB#74    | 15.67 | PASS |
| 7-7 | 20MHz-15MHz | 16QAM-16QAM | 21026-21197 | 1RB#0-1RB#74    | 14.35 | PASS |
| 7-7 | 20MHz-15MHz | QPSK-QPSK   | 21026-21197 | 18RB#0-0RB#0    | 20.97 | PASS |
| 7-7 | 20MHz-15MHz | 16QAM-16QAM | 21026-21197 | 18RB#0-0RB#0    | 19.98 | PASS |
| 7-7 | 20MHz-15MHz | QPSK-QPSK   | 21026-21197 | 100RB#0-75RB#0  | 20.89 | PASS |
| 7-7 | 20MHz-15MHz | 16QAM-16QAM | 21026-21197 | 100RB#0-75RB#0  | 19.89 | PASS |
| 7-7 | 20MHz-15MHz | QPSK-QPSK   | 21201-21372 | 1RB#0-0RB#0     | 22.10 | PASS |
| 7-7 | 20MHz-15MHz | 16QAM-16QAM | 21201-21372 | 1RB#0-0RB#0     | 21.02 | PASS |
| 7-7 | 20MHz-15MHz | QPSK-QPSK   | 21201-21372 | 1RB#99-0RB#0    | 22.00 | PASS |
| 7-7 | 20MHz-15MHz | 16QAM-16QAM | 21201-21372 | 1RB#99-0RB#0    | 21.06 | PASS |
| 7-7 | 20MHz-15MHz | QPSK-QPSK   | 21201-21372 | 1RB#0-1RB#74    | 16.39 | PASS |
| 7-7 | 20MHz-15MHz | 16QAM-16QAM | 21201-21372 | 1RB#0-1RB#74    | 14.32 | PASS |
| 7-7 | 20MHz-15MHz | QPSK-QPSK   | 21201-21372 | 18RB#0-0RB#0    | 21.15 | PASS |
| 7-7 | 20MHz-15MHz | 16QAM-16QAM | 21201-21372 | 18RB#0-0RB#0    | 20.14 | PASS |
| 7-7 | 20MHz-15MHz | QPSK-QPSK   | 21201-21372 | 100RB#0-75RB#0  | 20.89 | PASS |
| 7-7 | 20MHz-15MHz | 16QAM-16QAM | 21201-21372 | 100RB#0-75RB#0  | 19.90 | PASS |
| 7-7 | 20MHz-20MHz | QPSK-QPSK   | 20850-21048 | 1RB#0-0RB#0     | 21.81 | PASS |
| 7-7 | 20MHz-20MHz | 16QAM-16QAM | 20850-21048 | 1RB#0-0RB#0     | 20.71 | PASS |
| 7-7 | 20MHz-20MHz | QPSK-QPSK   | 20850-21048 | 1RB#99-0RB#0    | 22.07 | PASS |
| 7-7 | 20MHz-20MHz | 16QAM-16QAM | 20850-21048 | 1RB#99-0RB#0    | 20.96 | PASS |
| 7-7 | 20MHz-20MHz | QPSK-QPSK   | 20850-21048 | 1RB#0-1RB#99    | 13.40 | PASS |
| 7-7 | 20MHz-20MHz | 16QAM-16QAM | 20850-21048 | 1RB#0-1RB#99    | 13.29 | PASS |
| 7-7 | 20MHz-20MHz | QPSK-QPSK   | 20850-21048 | 18RB#0-0RB#0    | 21.86 | PASS |
| 7-7 | 20MHz-20MHz | 16QAM-16QAM | 20850-21048 | 18RB#0-0RB#0    | 20.78 | PASS |
| 7-7 | 20MHz-20MHz | QPSK-QPSK   | 20850-21048 | 100RB#0-100RB#0 | 20.83 | PASS |
| 7-7 | 20MHz-20MHz | 16QAM-16QAM | 20850-21048 | 100RB#0-100RB#0 | 19.83 | PASS |
| 7-7 | 20MHz-20MHz | QPSK-QPSK   | 21001-21199 | 1RB#0-0RB#0     | 21.98 | PASS |
| 7-7 | 20MHz-20MHz | 16QAM-16QAM | 21001-21199 | 1RB#0-0RB#0     | 20.95 | PASS |
| 7-7 | 20MHz-20MHz | QPSK-QPSK   | 21001-21199 | 1RB#99-0RB#0    | 22.02 | PASS |
| 7-7 | 20MHz-20MHz | 16QAM-16QAM | 21001-21199 | 1RB#99-0RB#0    | 21.02 | PASS |
| 7-7 | 20MHz-20MHz | QPSK-QPSK   | 21001-21199 | 1RB#0-1RB#99    | 15.92 | PASS |
| 7-7 | 20MHz-20MHz | 16QAM-16QAM | 21001-21199 | 1RB#0-1RB#99    | 14.48 | PASS |
| 7-7 | 20MHz-20MHz | QPSK-QPSK   | 21001-21199 | 18RB#0-0RB#0    | 22.01 | PASS |
| 7-7 | 20MHz-20MHz | 16QAM-16QAM | 21001-21199 | 18RB#0-0RB#0    | 21.05 | PASS |

|     |             |             |             |                 |       |      |
|-----|-------------|-------------|-------------|-----------------|-------|------|
| 7-7 | 20MHz-20MHz | QPSK-QPSK   | 21001-21199 | 100RB#0-100RB#0 | 20.95 | PASS |
| 7-7 | 20MHz-20MHz | 16QAM-16QAM | 21001-21199 | 100RB#0-100RB#0 | 19.96 | PASS |
| 7-7 | 20MHz-20MHz | QPSK-QPSK   | 21152-21350 | 1RB#0-0RB#0     | 22.15 | PASS |
| 7-7 | 20MHz-20MHz | 16QAM-16QAM | 21152-21350 | 1RB#0-0RB#0     | 21.19 | PASS |
| 7-7 | 20MHz-20MHz | QPSK-QPSK   | 21152-21350 | 1RB#99-0RB#0    | 22.06 | PASS |
| 7-7 | 20MHz-20MHz | 16QAM-16QAM | 21152-21350 | 1RB#99-0RB#0    | 21.14 | PASS |
| 7-7 | 20MHz-20MHz | QPSK-QPSK   | 21152-21350 | 1RB#0-1RB#99    | 16.26 | PASS |
| 7-7 | 20MHz-20MHz | 16QAM-16QAM | 21152-21350 | 1RB#0-1RB#99    | 14.46 | PASS |
| 7-7 | 20MHz-20MHz | QPSK-QPSK   | 21152-21350 | 18RB#0-0RB#0    | 22.21 | PASS |
| 7-7 | 20MHz-20MHz | 16QAM-16QAM | 21152-21350 | 18RB#0-0RB#0    | 21.22 | PASS |
| 7-7 | 20MHz-20MHz | QPSK-QPSK   | 21152-21350 | 100RB#0-100RB#0 | 20.96 | PASS |
| 7-7 | 20MHz-20MHz | 16QAM-16QAM | 21152-21350 | 100RB#0-100RB#0 | 19.99 | PASS |

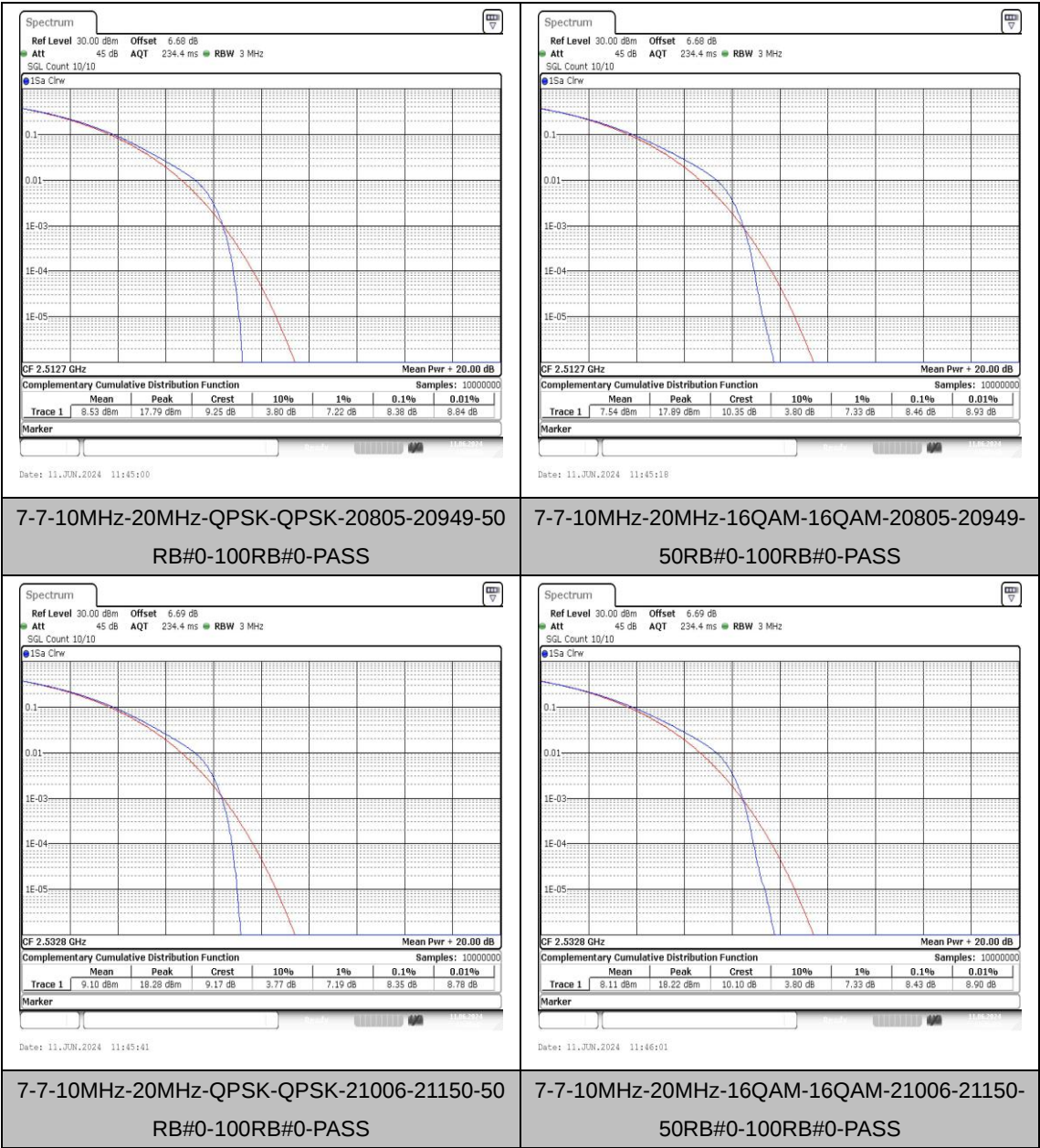
## Appendix B: Peak-to-Average Ratio(CCDF)

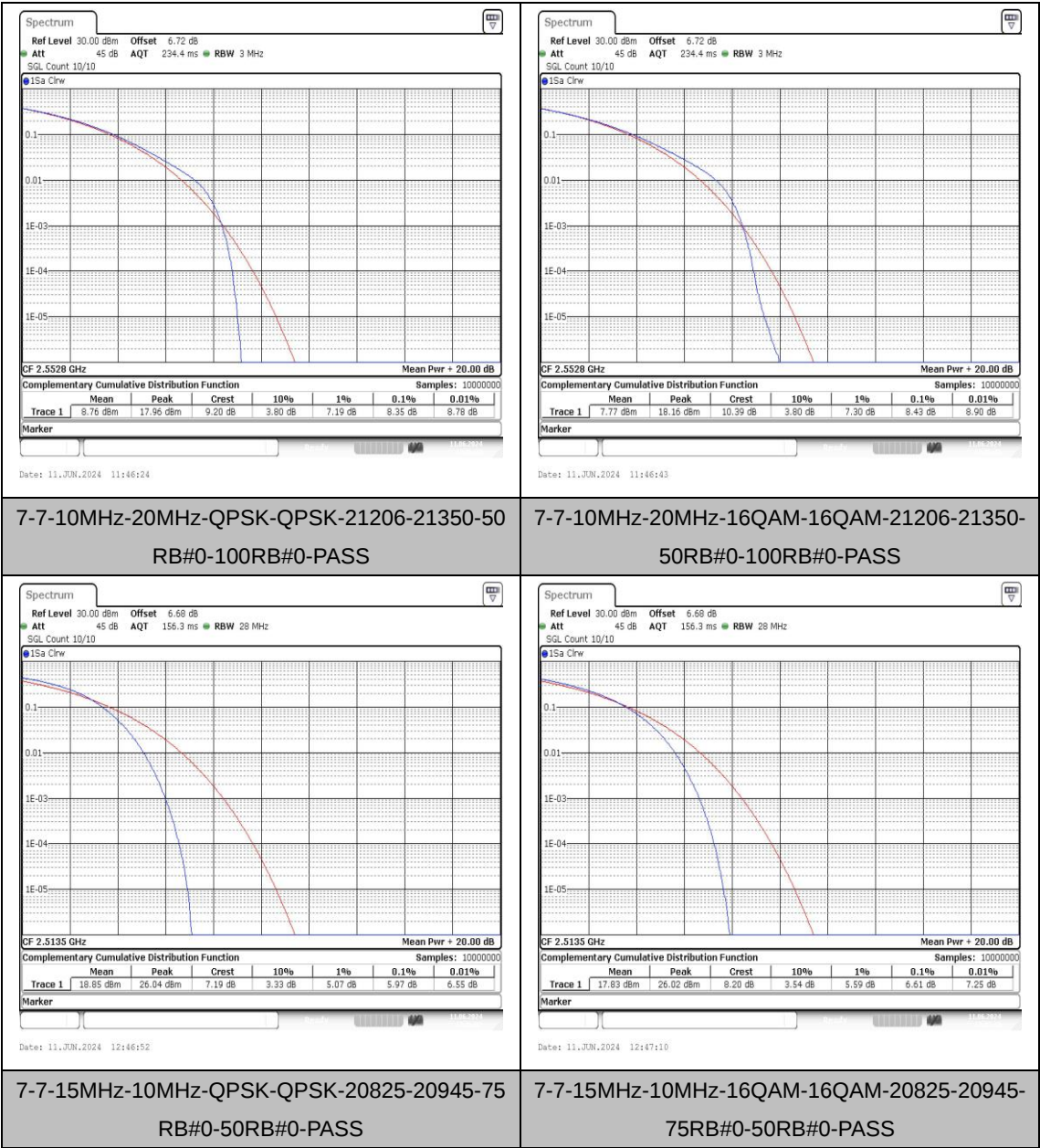
### Test Result

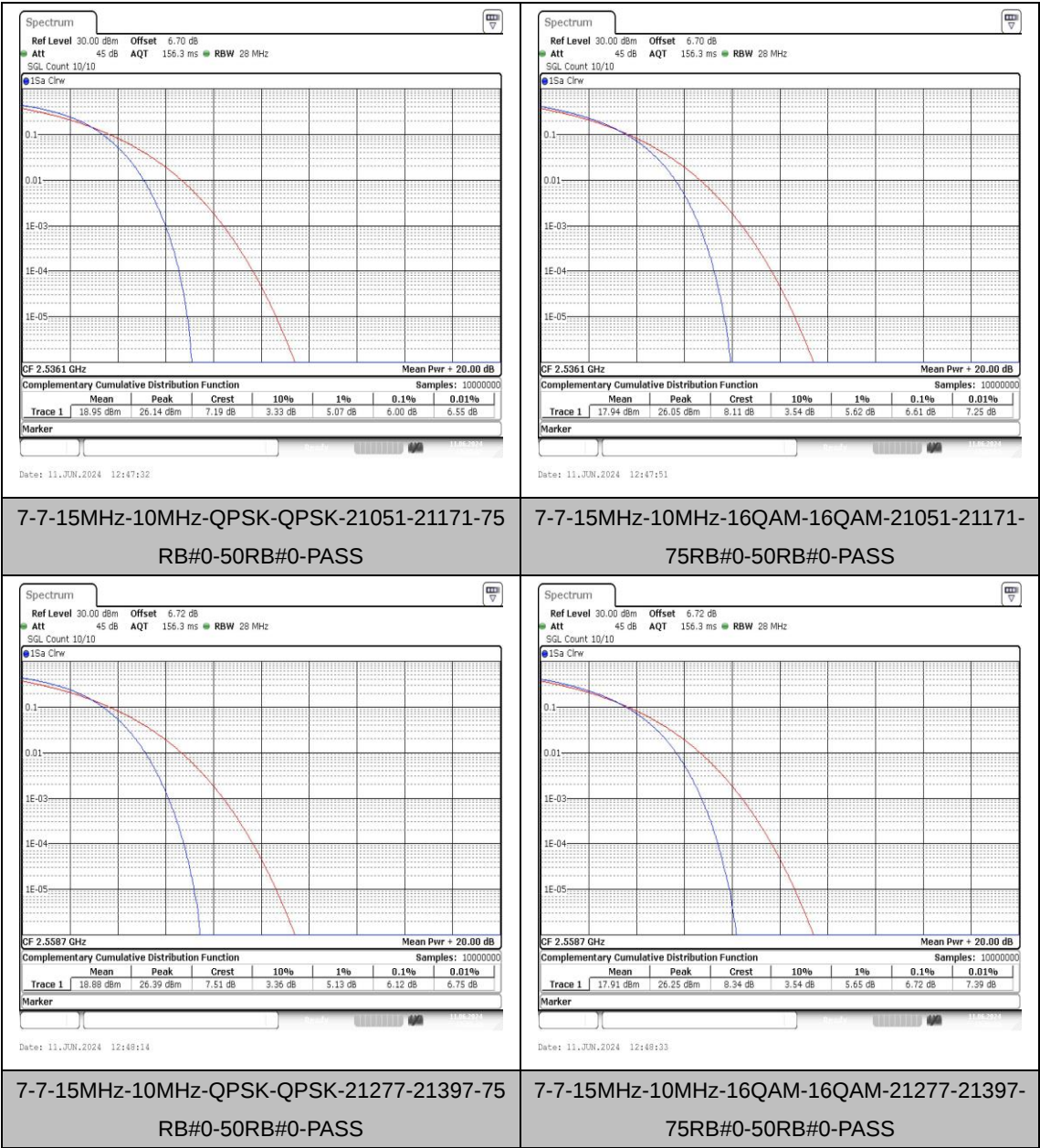
| Band | Bandwidth   | Modulation  | Channel     | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|------|-------------|-------------|-------------|------------------|------------|-----------|---------|
| 7-7  | 10MHz-20MHz | QPSK-QPSK   | 20805-20949 | 50RB#0-100RB#0   | 8.38       | 13        | PASS    |
| 7-7  | 10MHz-20MHz | 16QAM-16QAM | 20805-20949 | 50RB#0-100RB#0   | 8.46       | 13        | PASS    |
| 7-7  | 10MHz-20MHz | QPSK-QPSK   | 21006-21150 | 50RB#0-100RB#0   | 8.35       | 13        | PASS    |
| 7-7  | 10MHz-20MHz | 16QAM-16QAM | 21006-21150 | 50RB#0-100RB#0   | 8.43       | 13        | PASS    |
| 7-7  | 10MHz-20MHz | QPSK-QPSK   | 21206-21350 | 50RB#0-100RB#0   | 8.35       | 13        | PASS    |
| 7-7  | 10MHz-20MHz | 16QAM-16QAM | 21206-21350 | 50RB#0-100RB#0   | 8.43       | 13        | PASS    |
| 7-7  | 15MHz-10MHz | QPSK-QPSK   | 20825-20945 | 75RB#0-50RB#0    | 5.97       | 13        | PASS    |
| 7-7  | 15MHz-10MHz | 16QAM-16QAM | 20825-20945 | 75RB#0-50RB#0    | 6.61       | 13        | PASS    |
| 7-7  | 15MHz-10MHz | QPSK-QPSK   | 21051-21171 | 75RB#0-50RB#0    | 6.00       | 13        | PASS    |
| 7-7  | 15MHz-10MHz | 16QAM-16QAM | 21051-21171 | 75RB#0-50RB#0    | 6.61       | 13        | PASS    |
| 7-7  | 15MHz-10MHz | QPSK-QPSK   | 21277-21397 | 75RB#0-50RB#0    | 6.12       | 13        | PASS    |
| 7-7  | 15MHz-10MHz | 16QAM-16QAM | 21277-21397 | 75RB#0-50RB#0    | 6.72       | 13        | PASS    |
| 7-7  | 15MHz-15MHz | QPSK-QPSK   | 20825-20975 | 75RB#0-75RB#0    | 8.09       | 13        | PASS    |
| 7-7  | 15MHz-15MHz | 16QAM-16QAM | 20825-20975 | 75RB#0-75RB#0    | 8.12       | 13        | PASS    |
| 7-7  | 15MHz-15MHz | QPSK-QPSK   | 21025-21175 | 75RB#0-75RB#0    | 8.03       | 13        | PASS    |
| 7-7  | 15MHz-15MHz | 16QAM-16QAM | 21025-21175 | 75RB#0-75RB#0    | 8.14       | 13        | PASS    |
| 7-7  | 15MHz-15MHz | QPSK-QPSK   | 21225-21375 | 75RB#0-75RB#0    | 8.06       | 13        | PASS    |
| 7-7  | 15MHz-15MHz | 16QAM-16QAM | 21225-21375 | 75RB#0-75RB#0    | 8.14       | 13        | PASS    |
| 7-7  | 15MHz-20MHz | QPSK-QPSK   | 20828-20999 | 75RB#0-100RB#0   | 8.43       | 13        | PASS    |
| 7-7  | 15MHz-20MHz | 16QAM-16QAM | 20828-20999 | 75RB#0-100RB#0   | 8.49       | 13        | PASS    |
| 7-7  | 15MHz-20MHz | QPSK-QPSK   | 21003-21174 | 75RB#0-100RB#0   | 8.43       | 13        | PASS    |
| 7-7  | 15MHz-20MHz | 16QAM-16QAM | 21003-21174 | 75RB#0-100RB#0   | 8.49       | 13        | PASS    |
| 7-7  | 15MHz-20MHz | QPSK-QPSK   | 21179-21350 | 75RB#0-100RB#0   | 8.41       | 13        | PASS    |
| 7-7  | 15MHz-20MHz | 16QAM-16QAM | 21179-21350 | 75RB#0-100RB#0   | 8.46       | 13        | PASS    |
| 7-7  | 20MHz-10MHz | QPSK-QPSK   | 20850-20994 | 100RB#0-50RB#0   | 7.28       | 13        | PASS    |
| 7-7  | 20MHz-10MHz | 16QAM-16QAM | 20850-20994 | 100RB#0-50RB#0   | 7.65       | 13        | PASS    |
| 7-7  | 20MHz-10MHz | QPSK-QPSK   | 21051-21195 | 100RB#0-50RB#0   | 7.28       | 13        | PASS    |
| 7-7  | 20MHz-10MHz | 16QAM-16QAM | 21051-21195 | 100RB#0-50RB#0   | 7.68       | 13        | PASS    |
| 7-7  | 20MHz-10MHz | QPSK-QPSK   | 21251-21395 | 100RB#0-50RB#0   | 7.25       | 13        | PASS    |
| 7-7  | 20MHz-10MHz | 16QAM-16QAM | 21251-21395 | 100RB#0-50RB#0   | 7.68       | 13        | PASS    |
| 7-7  | 20MHz-15MHz | QPSK-QPSK   | 20850-21021 | 100RB#0-75RB#0   | 7.86       | 13        | PASS    |
| 7-7  | 20MHz-15MHz | 16QAM-16QAM | 20850-21021 | 100RB#0-75RB#0   | 7.97       | 13        | PASS    |
| 7-7  | 20MHz-15MHz | QPSK-QPSK   | 21026-21197 | 100RB#0-75RB#0   | 7.86       | 13        | PASS    |
| 7-7  | 20MHz-15MHz | 16QAM-16QAM | 21026-21197 | 100RB#0-75RB#0   | 8.03       | 13        | PASS    |
| 7-7  | 20MHz-15MHz | QPSK-QPSK   | 21201-21372 | 100RB#0-75RB#0   | 7.86       | 13        | PASS    |

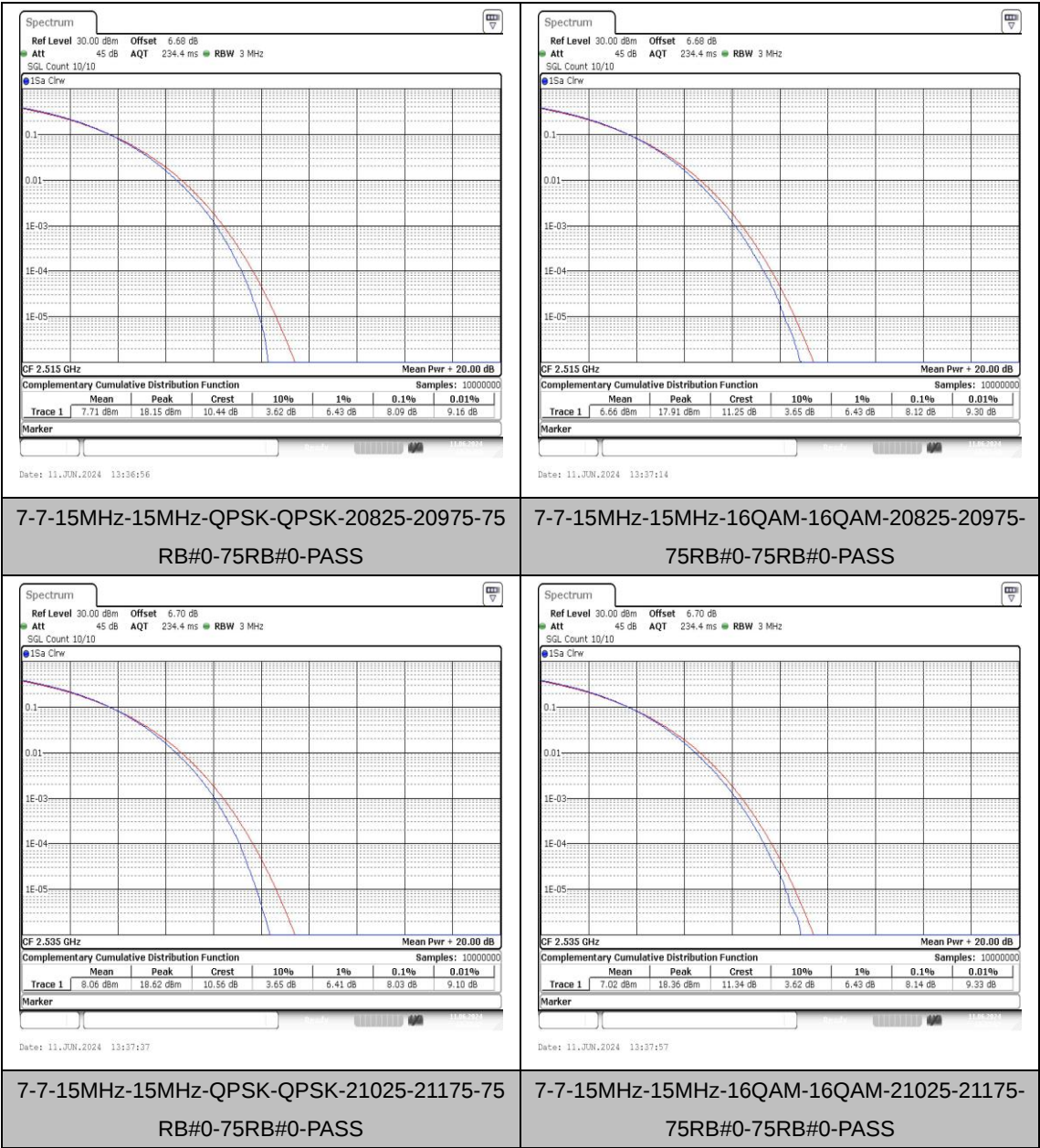
|     |             |             |             |                 |      |    |      |
|-----|-------------|-------------|-------------|-----------------|------|----|------|
| 7-7 | 20MHz-15MHz | 16QAM-16QAM | 21201-21372 | 100RB#0-75RB#0  | 8.00 | 13 | PASS |
| 7-7 | 20MHz-20MHz | QPSK-QPSK   | 20850-21048 | 100RB#0-100RB#0 | 8.20 | 13 | PASS |
| 7-7 | 20MHz-20MHz | 16QAM-16QAM | 20850-21048 | 100RB#0-100RB#0 | 8.26 | 13 | PASS |
| 7-7 | 20MHz-20MHz | QPSK-QPSK   | 21001-21199 | 100RB#0-100RB#0 | 8.20 | 13 | PASS |
| 7-7 | 20MHz-20MHz | 16QAM-16QAM | 21001-21199 | 100RB#0-100RB#0 | 8.26 | 13 | PASS |
| 7-7 | 20MHz-20MHz | QPSK-QPSK   | 21152-21350 | 100RB#0-100RB#0 | 8.20 | 13 | PASS |
| 7-7 | 20MHz-20MHz | 16QAM-16QAM | 21152-21350 | 100RB#0-100RB#0 | 8.23 | 13 | PASS |

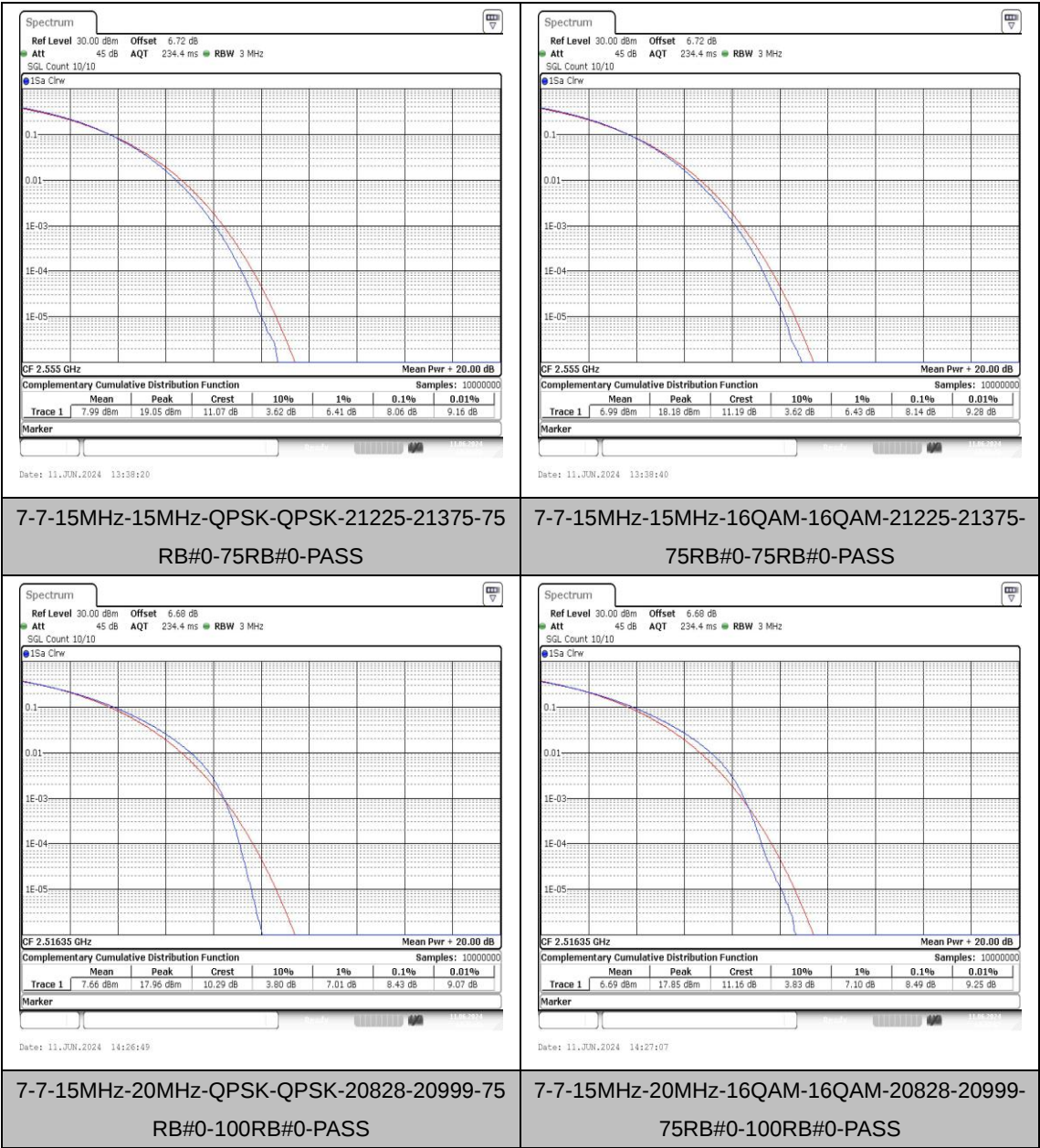
Test Graphs

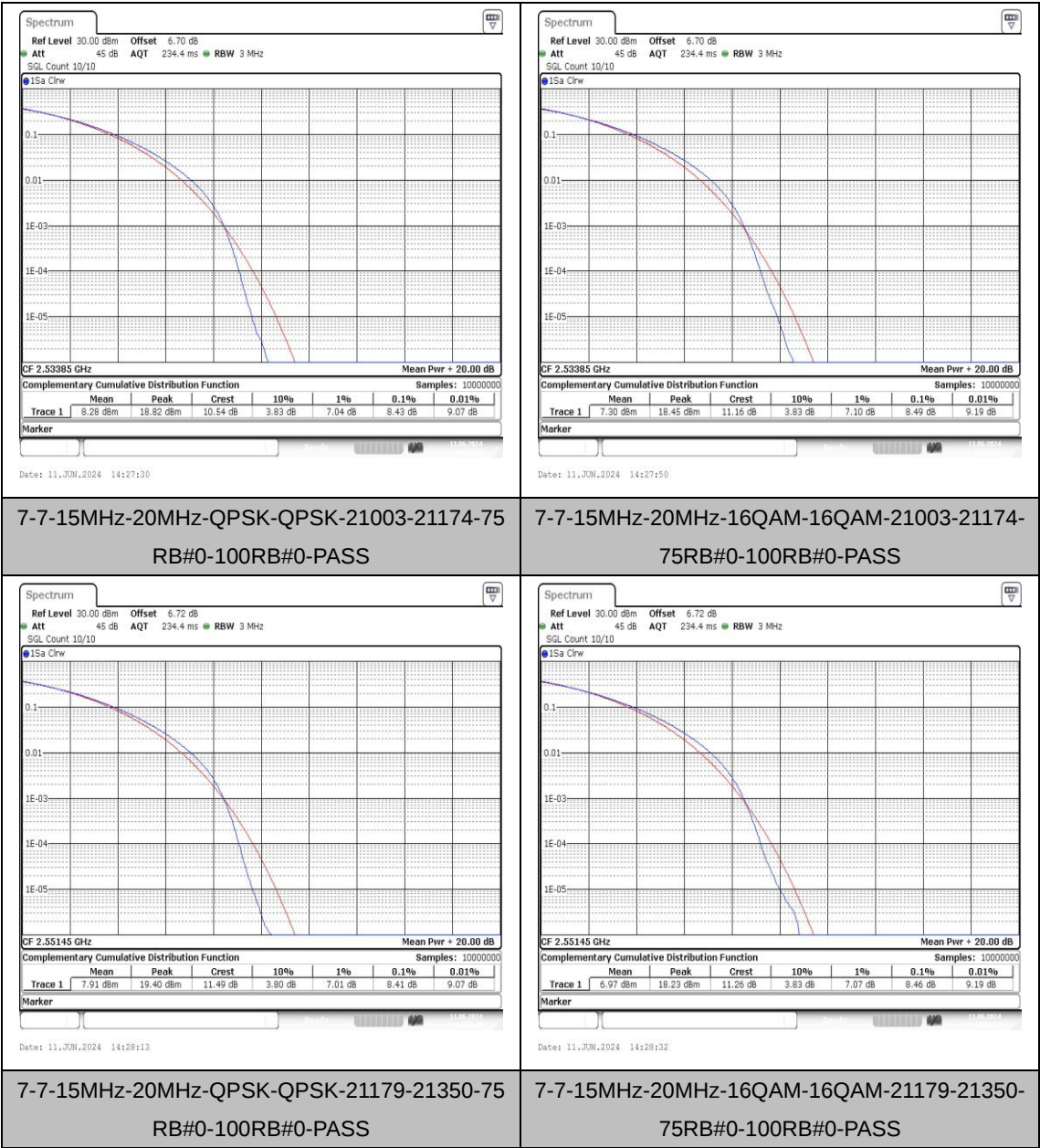


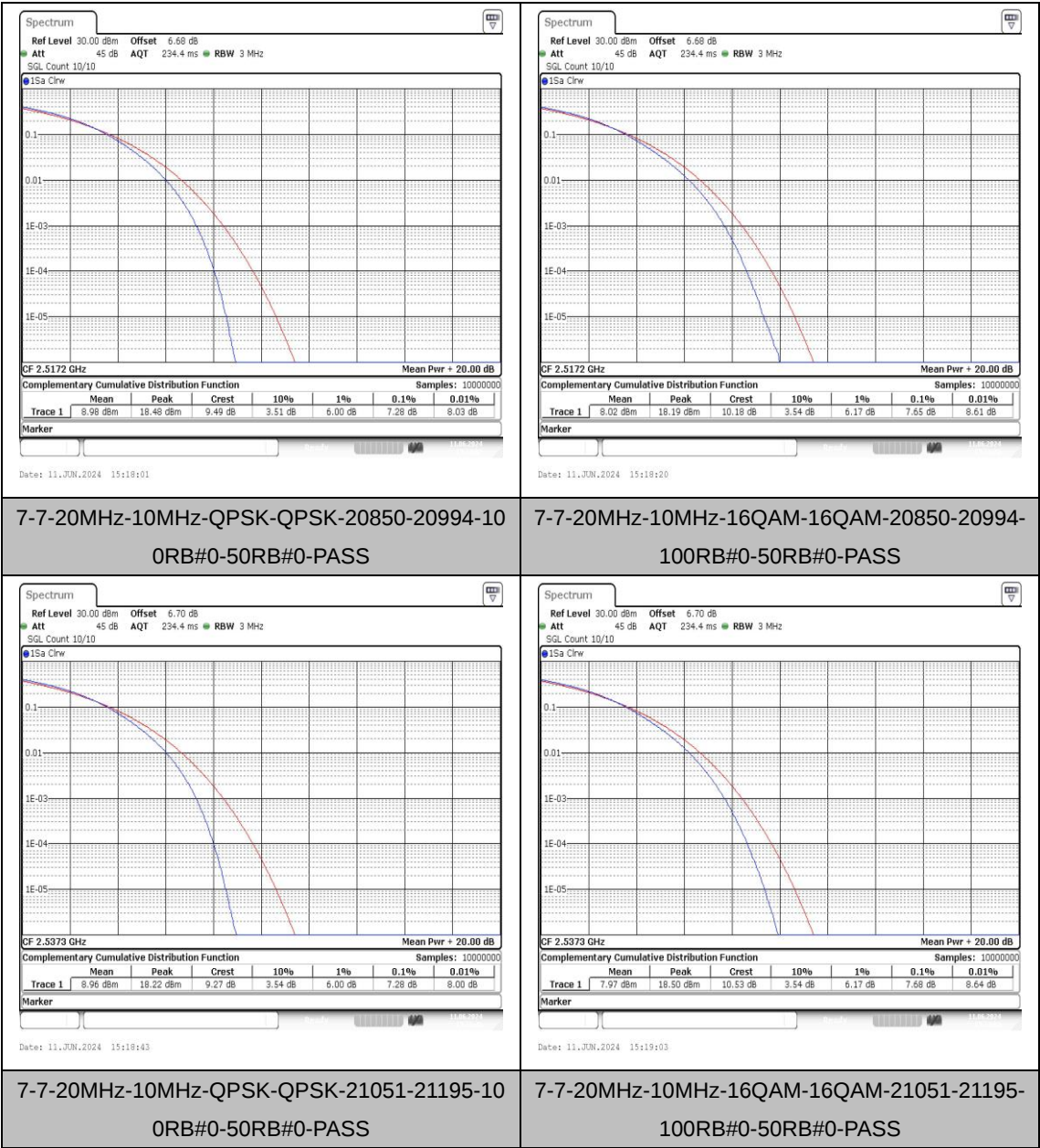


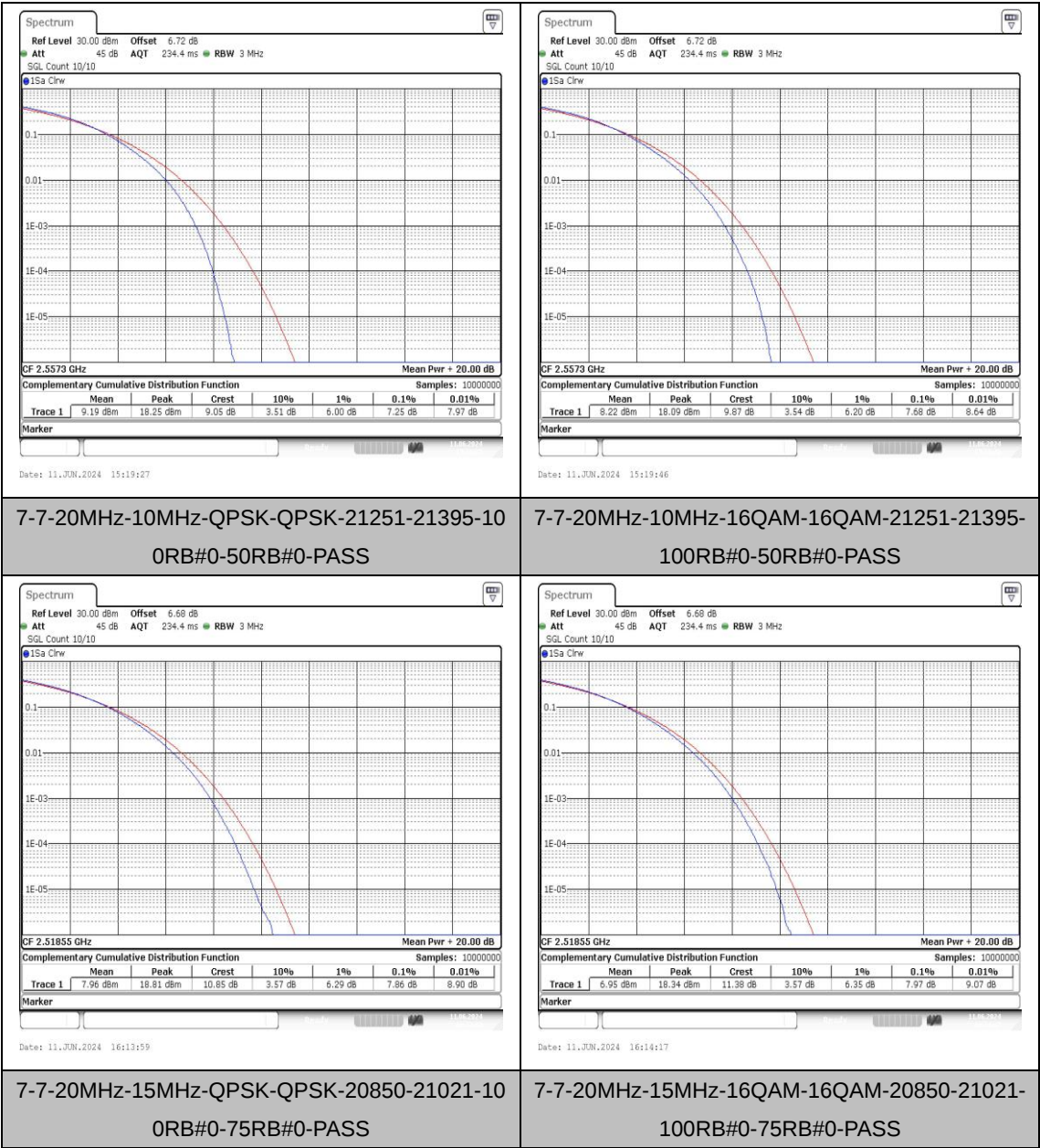


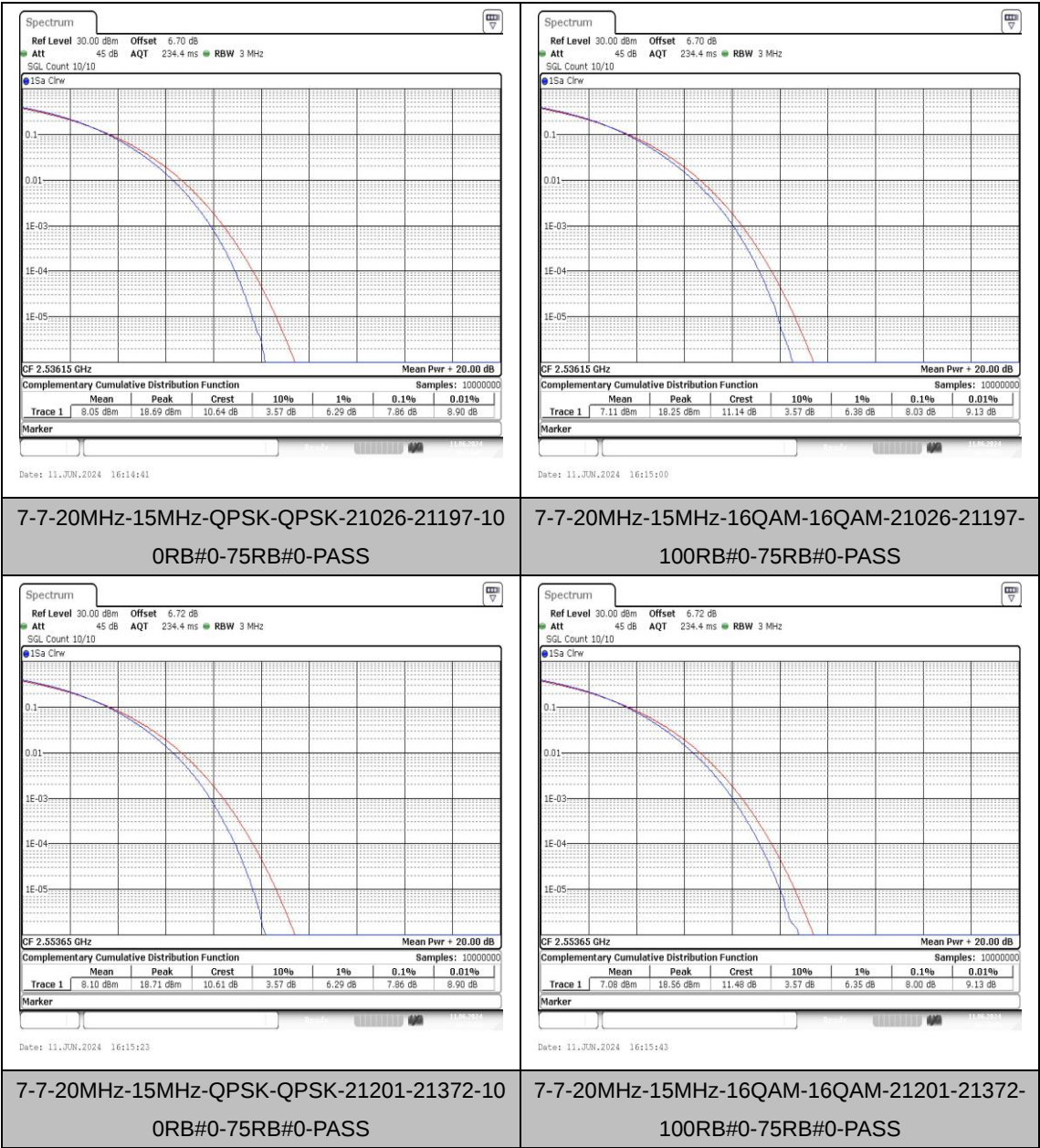


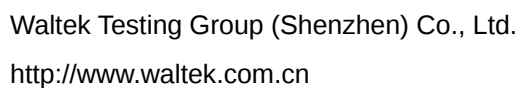


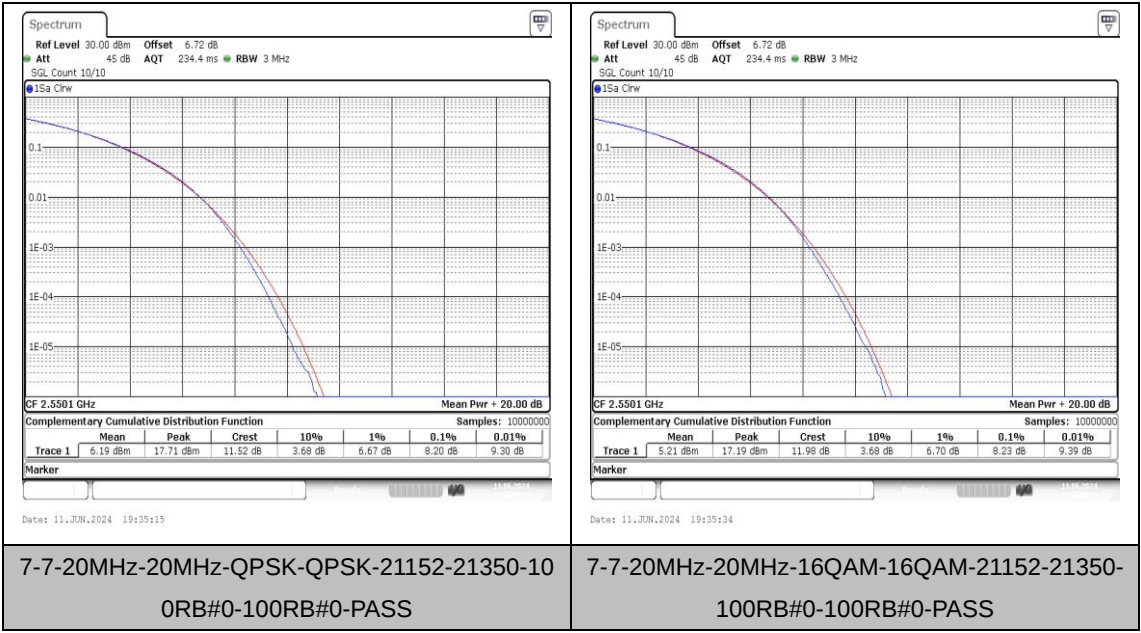












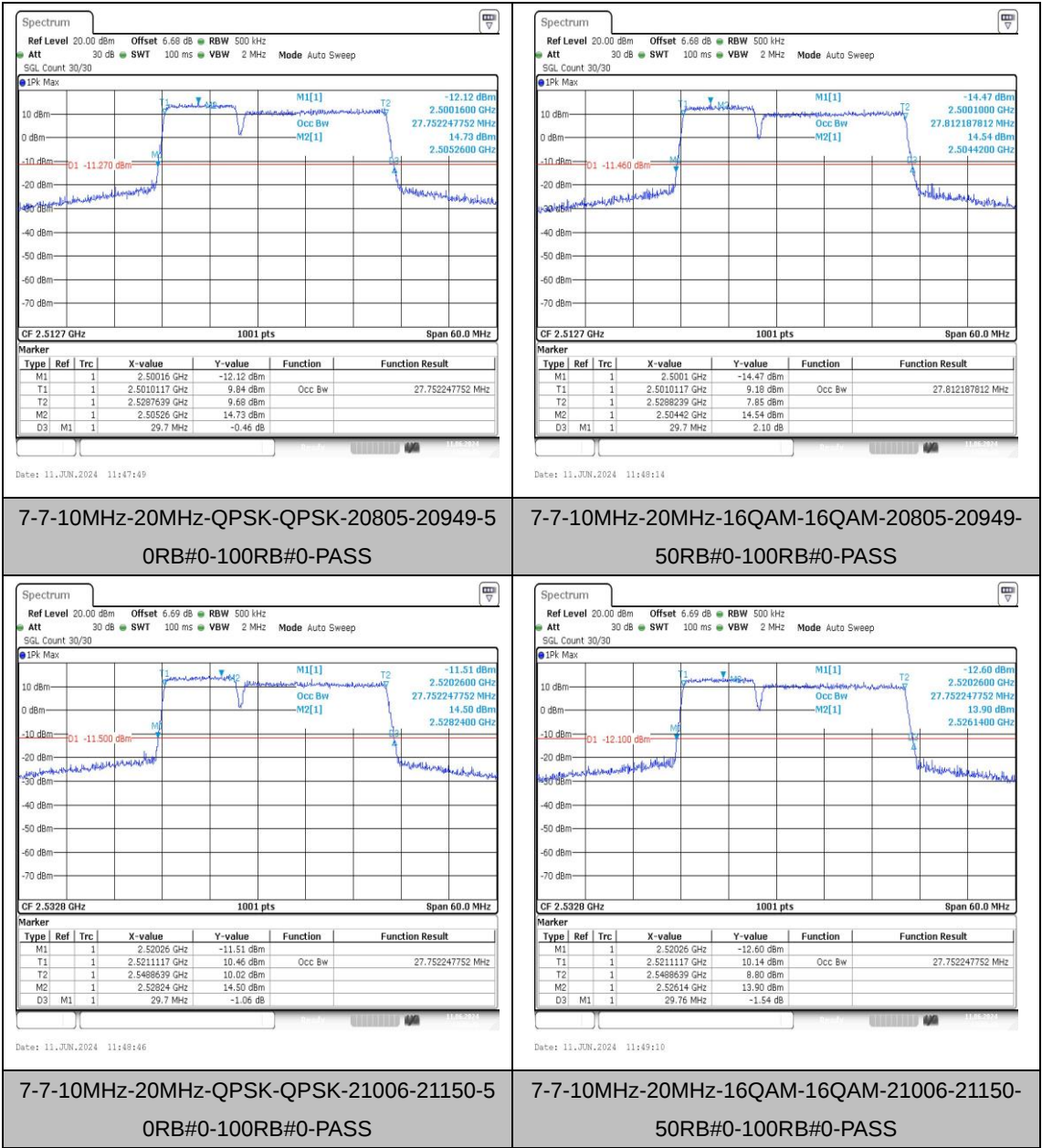
## Appendix C: 26dB Bandwidth and Occupied Bandwidth

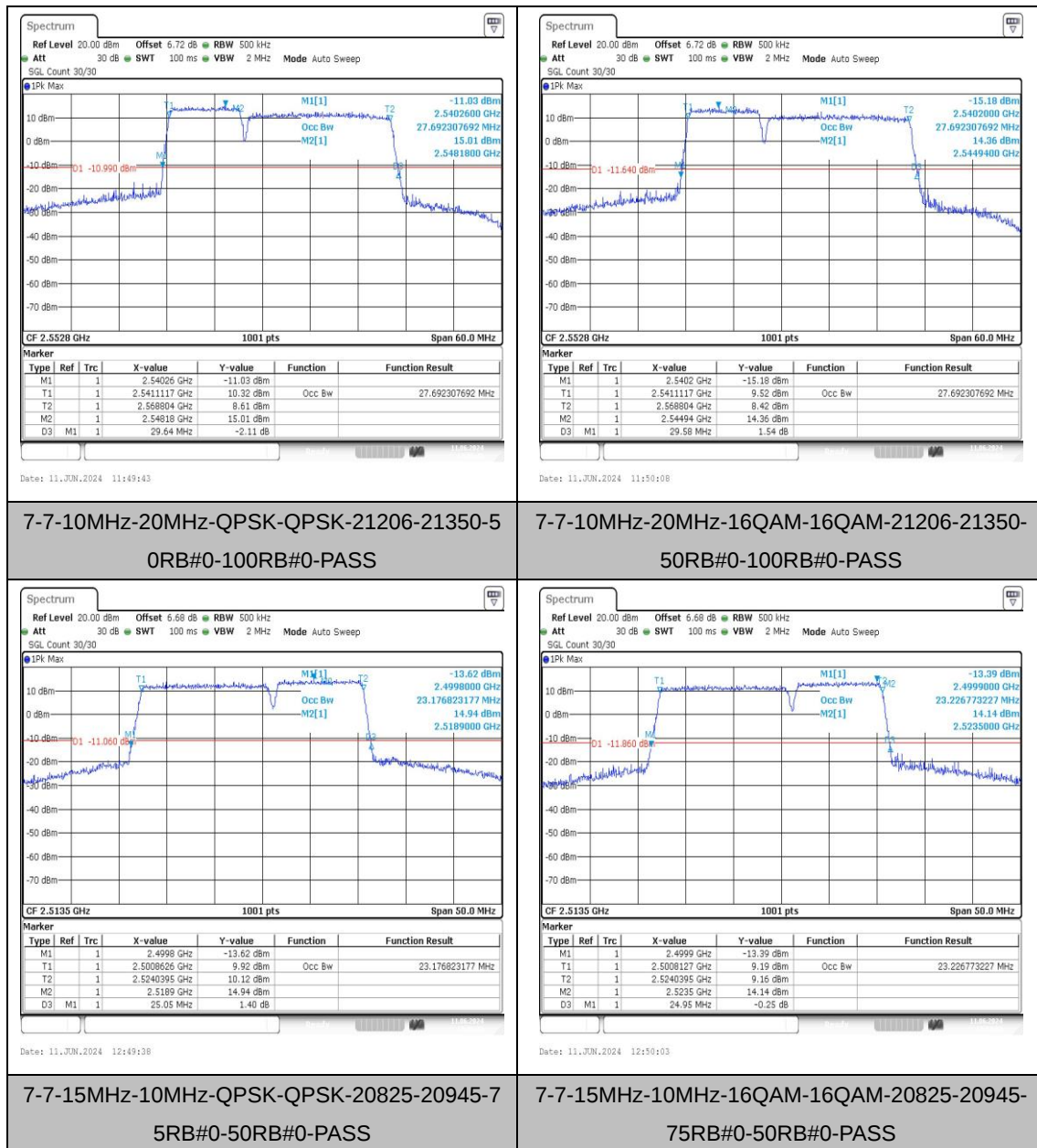
### Test Result

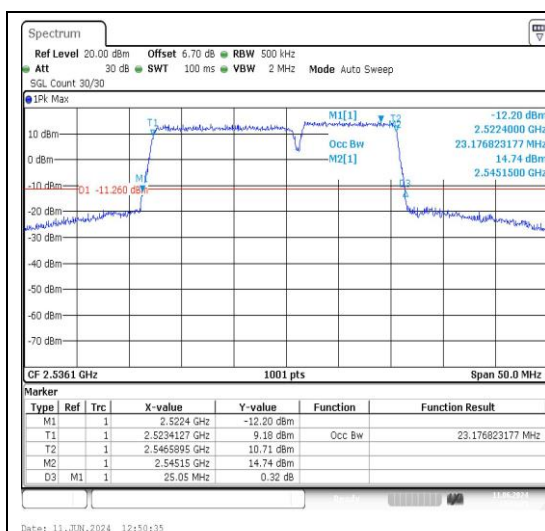
| Band | Bandwidth   | Modulation  | Channel     | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|------|-------------|-------------|-------------|------------------|--------------------------|----------------------|---------|
| 7-7  | 10MHz-20MHz | QPSK-QPSK   | 20805-20949 | 50RB#0-100RB#0   | 27.752                   | 29.70                | PASS    |
| 7-7  | 10MHz-20MHz | 16QAM-16QAM | 20805-20949 | 50RB#0-100RB#0   | 27.812                   | 29.70                | PASS    |
| 7-7  | 10MHz-20MHz | QPSK-QPSK   | 21006-21150 | 50RB#0-100RB#0   | 27.752                   | 29.70                | PASS    |
| 7-7  | 10MHz-20MHz | 16QAM-16QAM | 21006-21150 | 50RB#0-100RB#0   | 27.752                   | 29.76                | PASS    |
| 7-7  | 10MHz-20MHz | QPSK-QPSK   | 21206-21350 | 50RB#0-100RB#0   | 27.692                   | 29.64                | PASS    |
| 7-7  | 10MHz-20MHz | 16QAM-16QAM | 21206-21350 | 50RB#0-100RB#0   | 27.692                   | 29.58                | PASS    |
| 7-7  | 15MHz-10MHz | QPSK-QPSK   | 20825-20945 | 75RB#0-50RB#0    | 23.177                   | 25.05                | PASS    |
| 7-7  | 15MHz-10MHz | 16QAM-16QAM | 20825-20945 | 75RB#0-50RB#0    | 23.227                   | 24.95                | PASS    |
| 7-7  | 15MHz-10MHz | QPSK-QPSK   | 21051-21171 | 75RB#0-50RB#0    | 23.177                   | 25.05                | PASS    |
| 7-7  | 15MHz-10MHz | 16QAM-16QAM | 21051-21171 | 75RB#0-50RB#0    | 23.177                   | 24.90                | PASS    |
| 7-7  | 15MHz-10MHz | QPSK-QPSK   | 21277-21397 | 75RB#0-50RB#0    | 13.686                   | 15.35                | PASS    |
| 7-7  | 15MHz-10MHz | 16QAM-16QAM | 21277-21397 | 75RB#0-50RB#0    | 13.686                   | 15.45                | PASS    |
| 7-7  | 15MHz-15MHz | QPSK-QPSK   | 20825-20975 | 75RB#0-75RB#0    | 28.412                   | 30.48                | PASS    |
| 7-7  | 15MHz-15MHz | 16QAM-16QAM | 20825-20975 | 75RB#0-75RB#0    | 28.352                   | 30.42                | PASS    |
| 7-7  | 15MHz-15MHz | QPSK-QPSK   | 21025-21175 | 75RB#0-75RB#0    | 28.412                   | 30.54                | PASS    |
| 7-7  | 15MHz-15MHz | 16QAM-16QAM | 21025-21175 | 75RB#0-75RB#0    | 28.352                   | 30.42                | PASS    |
| 7-7  | 15MHz-15MHz | QPSK-QPSK   | 21225-21375 | 75RB#0-75RB#0    | 28.352                   | 30.48                | PASS    |
| 7-7  | 15MHz-15MHz | 16QAM-16QAM | 21225-21375 | 75RB#0-75RB#0    | 28.352                   | 30.30                | PASS    |
| 7-7  | 15MHz-20MHz | QPSK-QPSK   | 20828-20999 | 75RB#0-100RB#0   | 32.657                   | 34.86                | PASS    |
| 7-7  | 15MHz-20MHz | 16QAM-16QAM | 20828-20999 | 75RB#0-100RB#0   | 32.657                   | 34.72                | PASS    |
| 7-7  | 15MHz-20MHz | QPSK-QPSK   | 21003-21174 | 75RB#0-100RB#0   | 32.657                   | 34.93                | PASS    |
| 7-7  | 15MHz-20MHz | 16QAM-16QAM | 21003-21174 | 75RB#0-100RB#0   | 32.657                   | 34.79                | PASS    |
| 7-7  | 15MHz-20MHz | QPSK-QPSK   | 21179-21350 | 75RB#0-100RB#0   | 13.636                   | 15.40                | PASS    |
| 7-7  | 15MHz-20MHz | 16QAM-16QAM | 21179-21350 | 75RB#0-100RB#0   | 13.706                   | 15.47                | PASS    |
| 7-7  | 20MHz-10MHz | QPSK-QPSK   | 20850-20994 | 100RB#0-50RB#0   | 27.812                   | 29.76                | PASS    |
| 7-7  | 20MHz-10MHz | 16QAM-16QAM | 20850-20994 | 100RB#0-50RB#0   | 27.752                   | 29.58                | PASS    |
| 7-7  | 20MHz-10MHz | QPSK-QPSK   | 21051-21195 | 100RB#0-50RB#0   | 27.812                   | 29.64                | PASS    |
| 7-7  | 20MHz-10MHz | 16QAM-16QAM | 21051-21195 | 100RB#0-50RB#0   | 27.752                   | 29.70                | PASS    |
| 7-7  | 20MHz-10MHz | QPSK-QPSK   | 21251-21395 | 100RB#0-50RB#0   | 27.812                   | 29.64                | PASS    |
| 7-7  | 20MHz-10MHz | 16QAM-16QAM | 21251-21395 | 100RB#0-50RB#0   | 27.752                   | 29.52                | PASS    |
| 7-7  | 20MHz-15MHz | QPSK-QPSK   | 20850-21021 | 100RB#0-75RB#0   | 32.657                   | 34.93                | PASS    |
| 7-7  | 20MHz-15MHz | 16QAM-16QAM | 20850-21021 | 100RB#0-75RB#0   | 32.657                   | 34.93                | PASS    |
| 7-7  | 20MHz-15MHz | QPSK-QPSK   | 21026-21197 | 100RB#0-75RB#0   | 32.657                   | 34.86                | PASS    |

|     |             |             |             |                 |        |       |      |
|-----|-------------|-------------|-------------|-----------------|--------|-------|------|
| 7-7 | 20MHz-15MHz | 16QAM-16QAM | 21026-21197 | 100RB#0-75RB#0  | 32.657 | 34.79 | PASS |
| 7-7 | 20MHz-15MHz | QPSK-QPSK   | 21201-21372 | 100RB#0-75RB#0  | 32.657 | 34.86 | PASS |
| 7-7 | 20MHz-15MHz | 16QAM-16QAM | 21201-21372 | 100RB#0-75RB#0  | 32.587 | 34.72 | PASS |
| 7-7 | 20MHz-20MHz | QPSK-QPSK   | 20850-21048 | 100RB#0-100RB#0 | 37.802 | 40.64 | PASS |
| 7-7 | 20MHz-20MHz | 16QAM-16QAM | 20850-21048 | 100RB#0-100RB#0 | 37.802 | 40.56 | PASS |
| 7-7 | 20MHz-20MHz | QPSK-QPSK   | 21001-21199 | 100RB#0-100RB#0 | 37.802 | 40.72 | PASS |
| 7-7 | 20MHz-20MHz | 16QAM-16QAM | 21001-21199 | 100RB#0-100RB#0 | 37.802 | 40.80 | PASS |
| 7-7 | 20MHz-20MHz | QPSK-QPSK   | 21152-21350 | 100RB#0-100RB#0 | 37.802 | 40.80 | PASS |
| 7-7 | 20MHz-20MHz | 16QAM-16QAM | 21152-21350 | 100RB#0-100RB#0 | 37.802 | 40.64 | PASS |

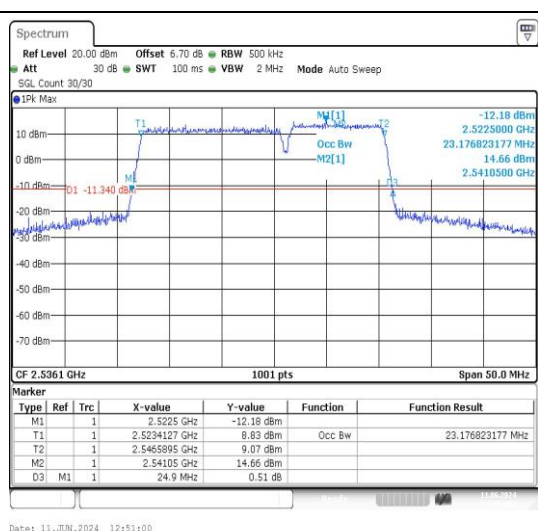
Test Graphs



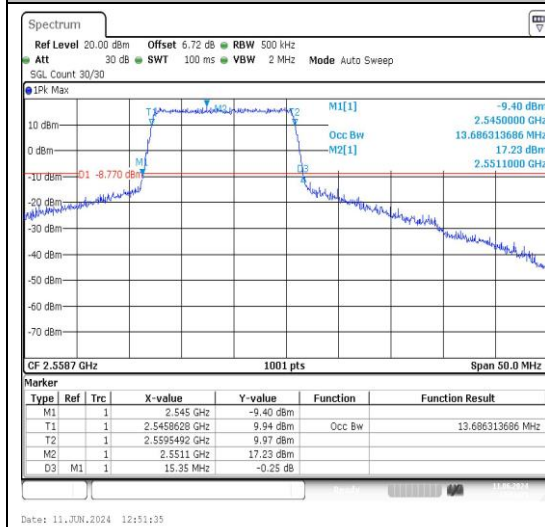




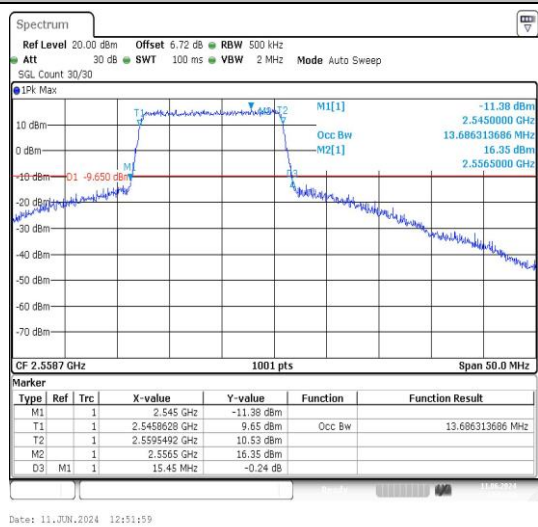
7-7-15MHz-10MHz-QPSK-QPSK-21051-21171-7  
5RB#0-50RB#0-PASS



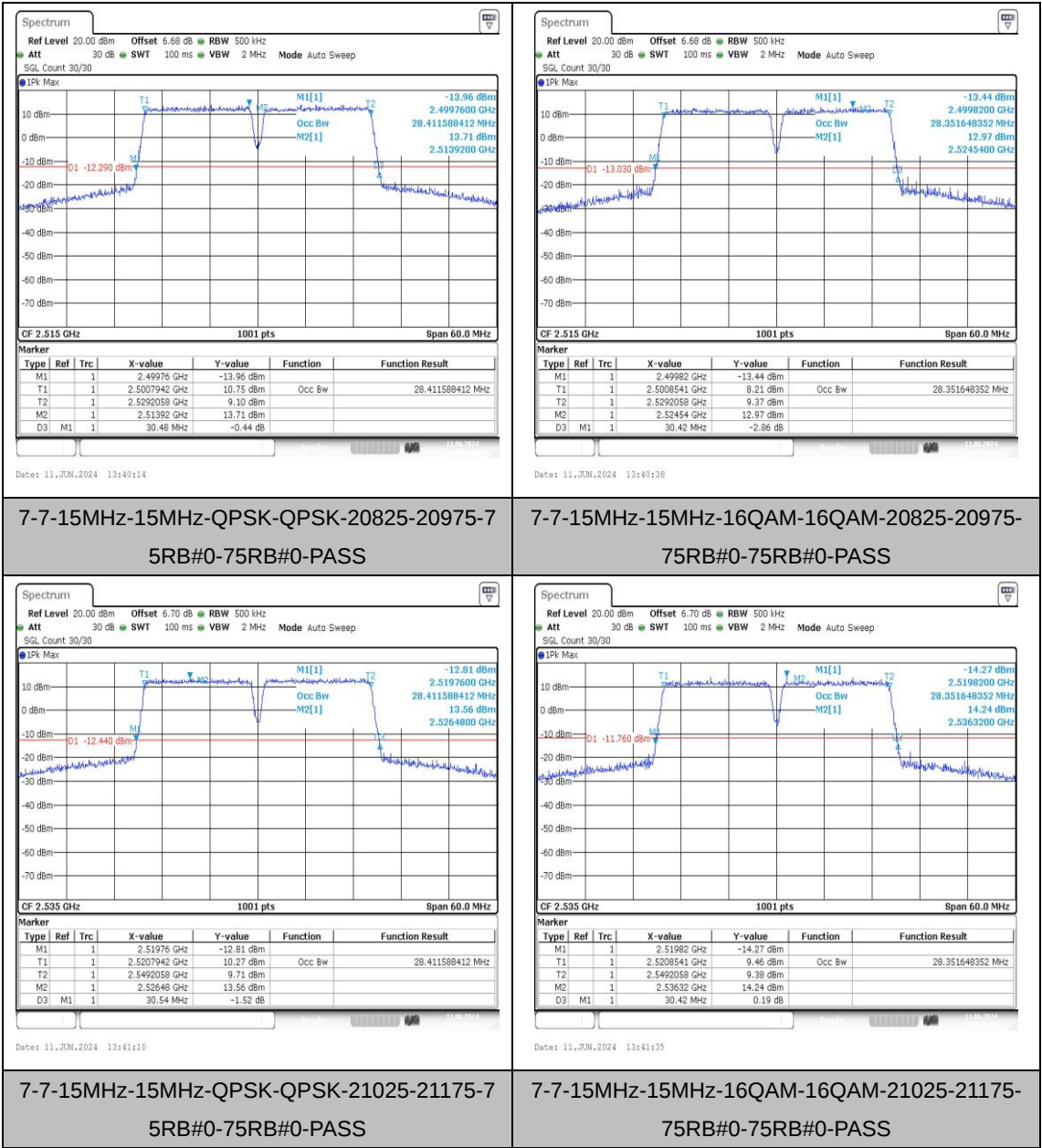
7-7-15MHz-10MHz-16QAM-16QAM-21051-21171-  
75RB#0-50RB#0-PASS

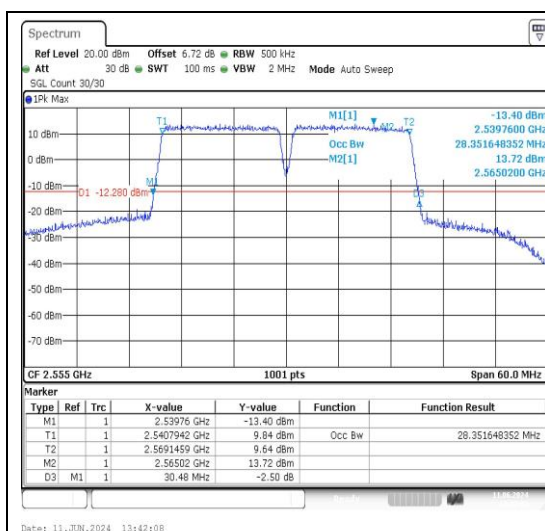


7-7-15MHz-10MHz-QPSK-QPSK-21277-21397-7  
5RB#0-50RB#0-PASS

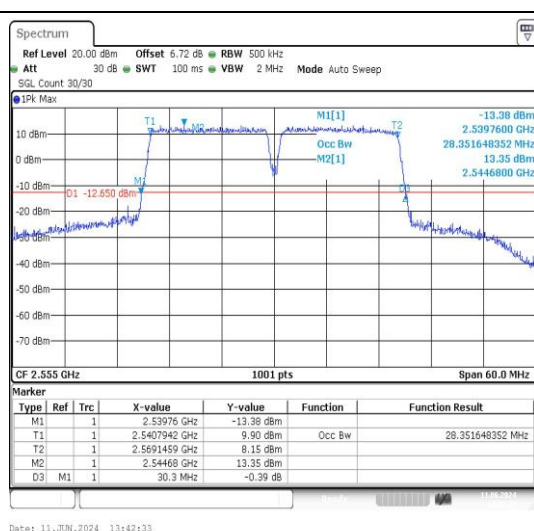


7-7-15MHz-10MHz-16QAM-16QAM-21277-21397-  
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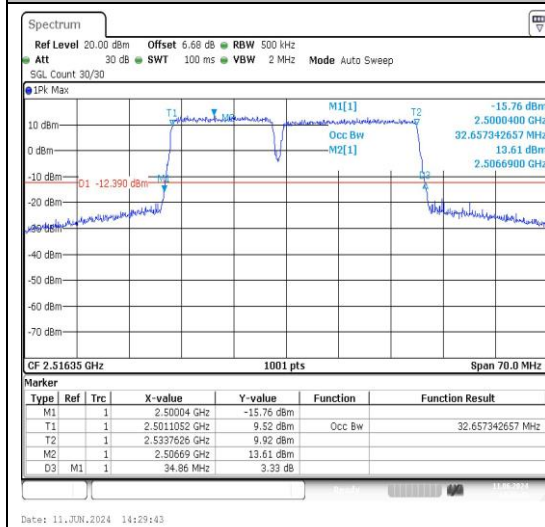




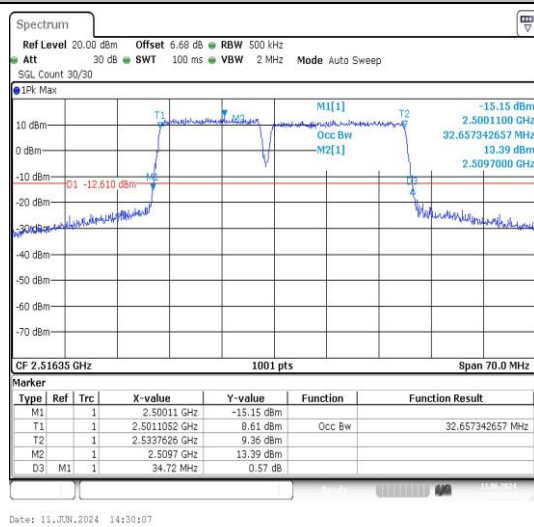
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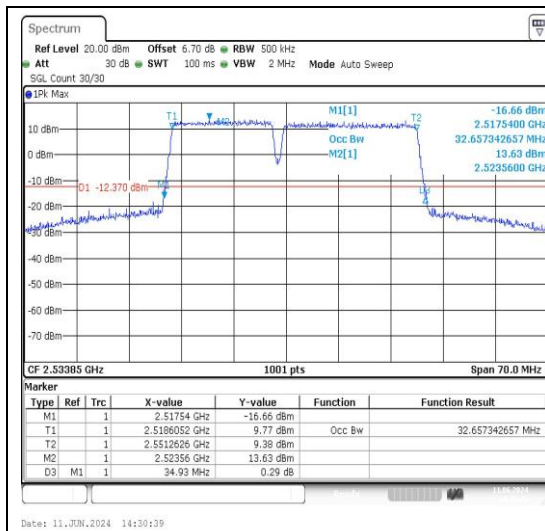
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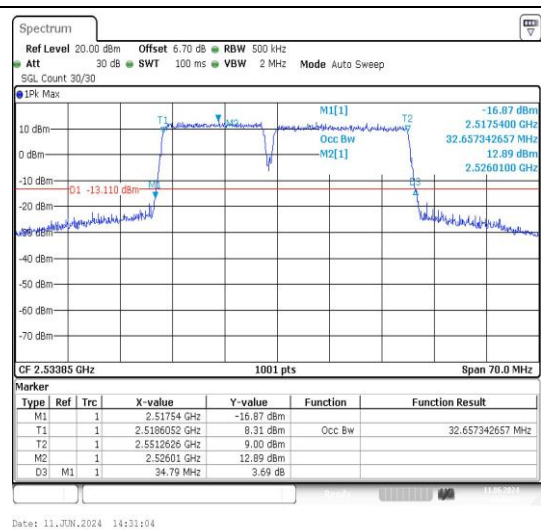
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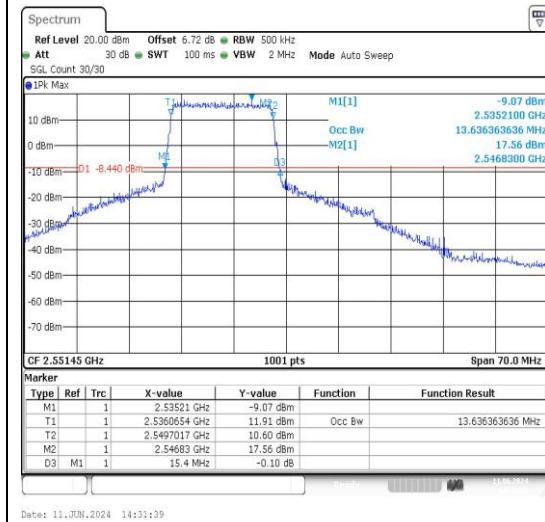
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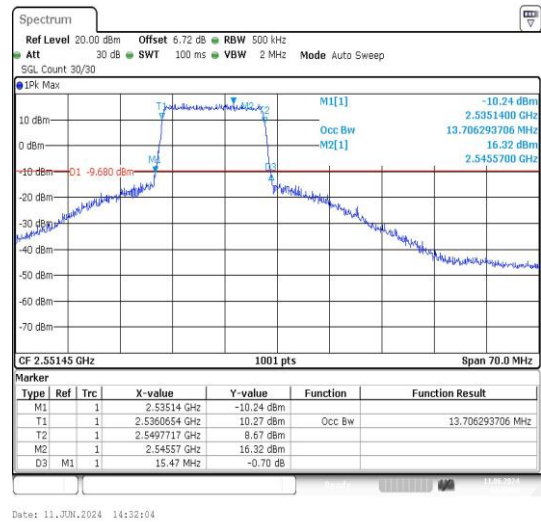
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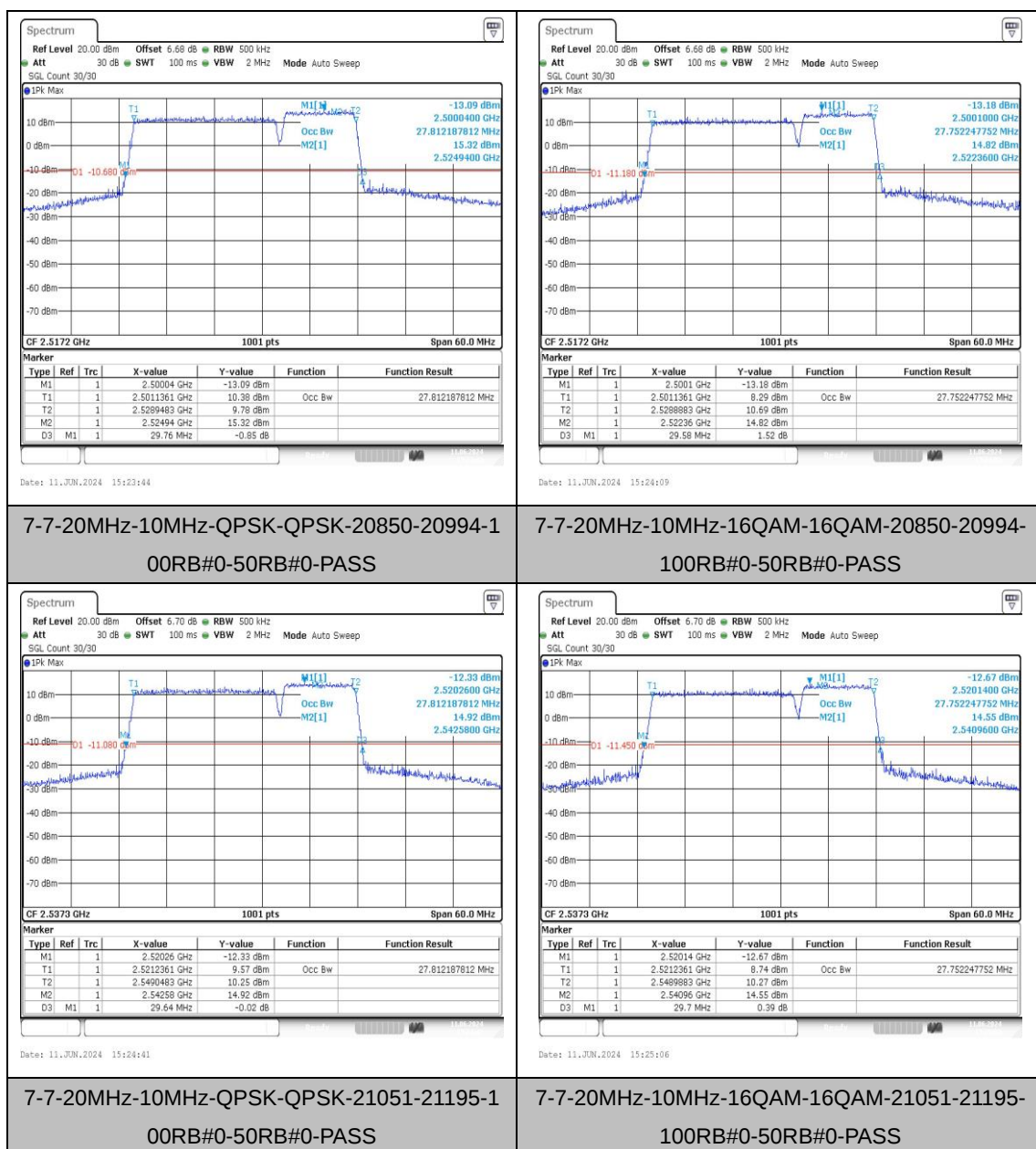
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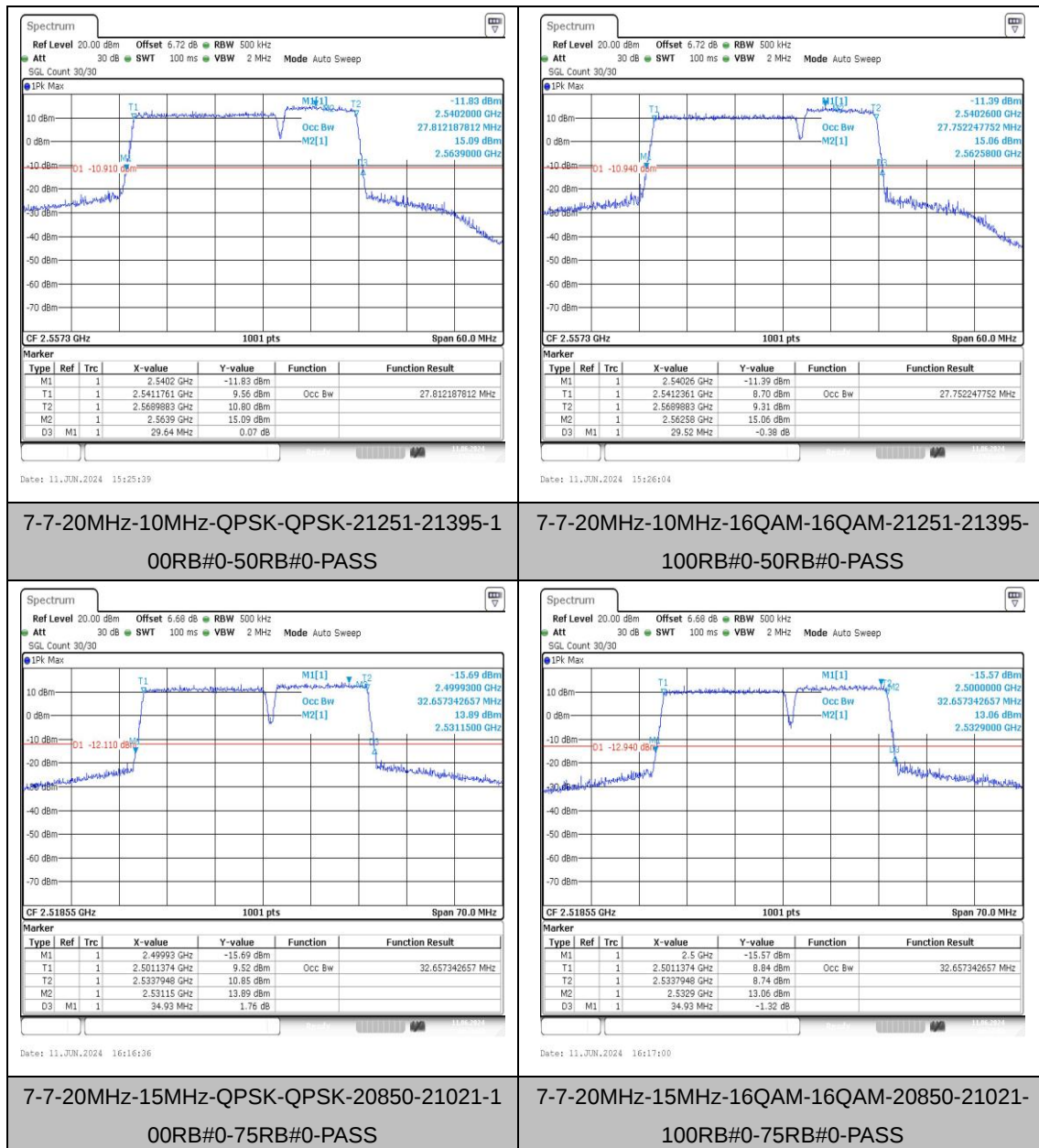


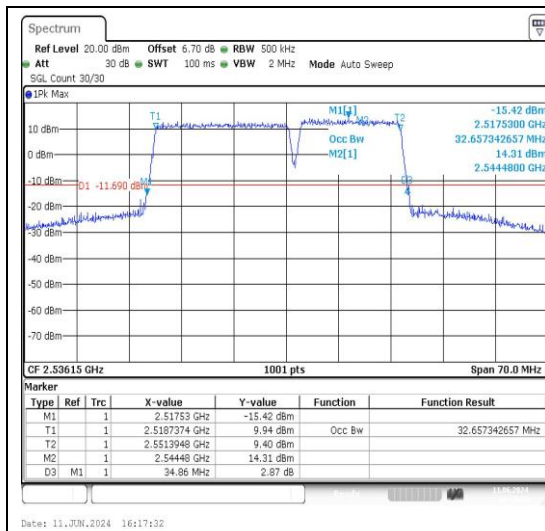
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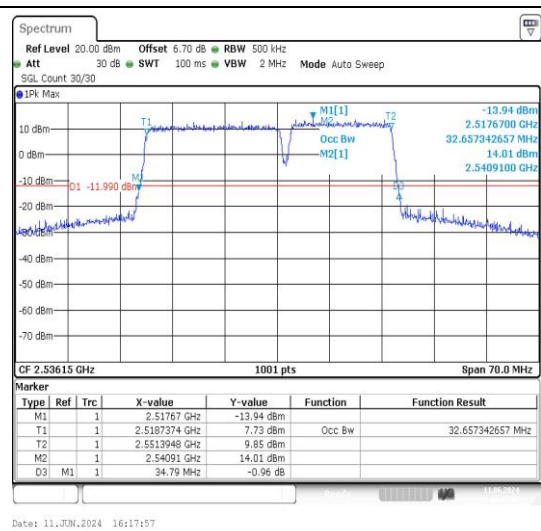
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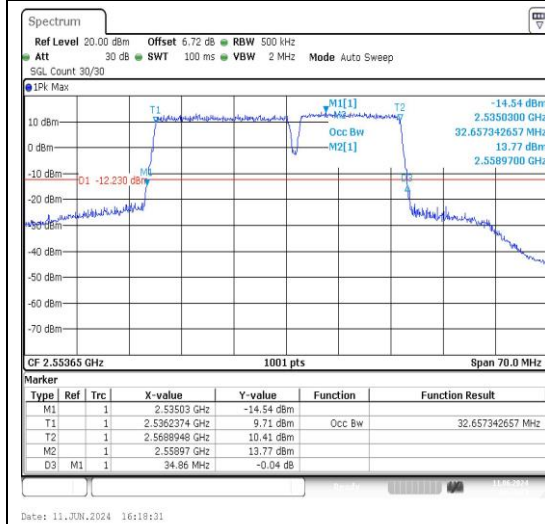




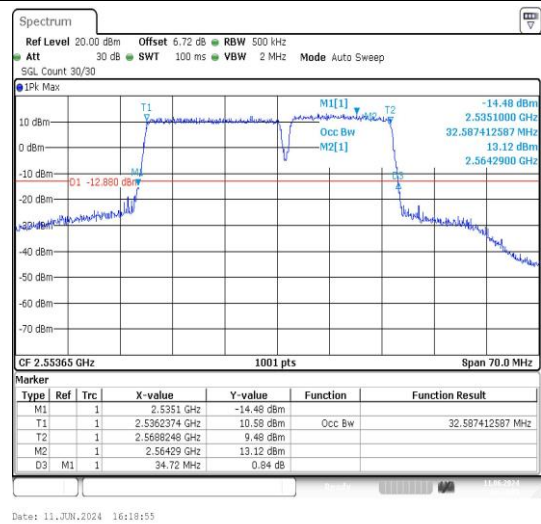
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00RB#0-75RB#0-PASS



7-7-20MHz-15MHz-16QAM-16QAM-21026-21197-1  
100RB#0-75RB#0-PASS



7-7-20MHz-15MHz-QPSK-QPSK-21201-21372-1  
00RB#0-75RB#0-PASS



7-7-20MHz-15MHz-16QAM-16QAM-21201-21372-1  
100RB#0-75RB#0-PASS