

# FCC LTE Band Test Data

**FCC ID** : 2BM9D-S25ULTRA

**Company:** : Shenzhen Jiaqi Technology Co., Ltd.

**EUT** : SMART PHONE

**Model Number** : S25 Ultra

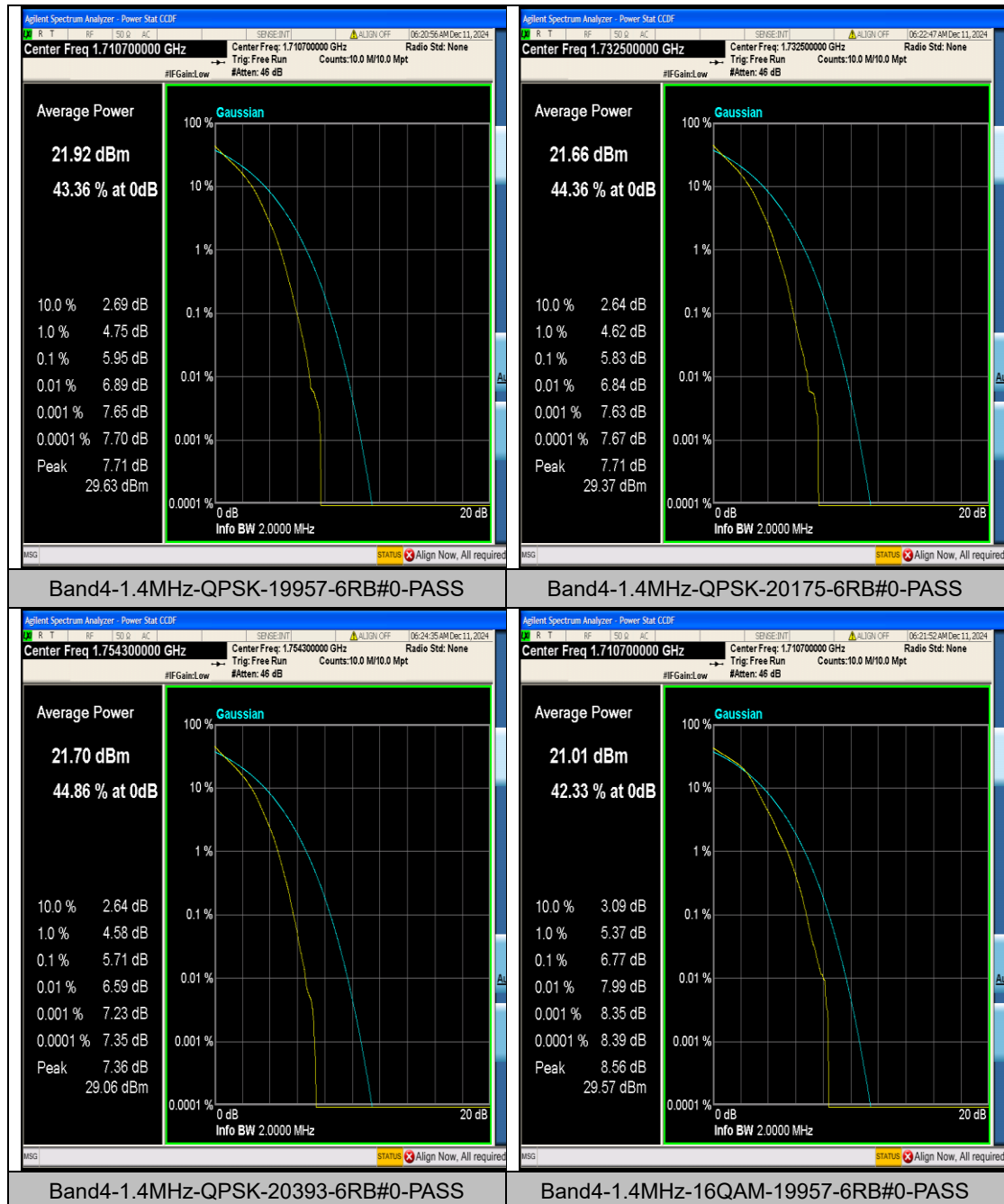
**Reviewed By** : Eric Wang

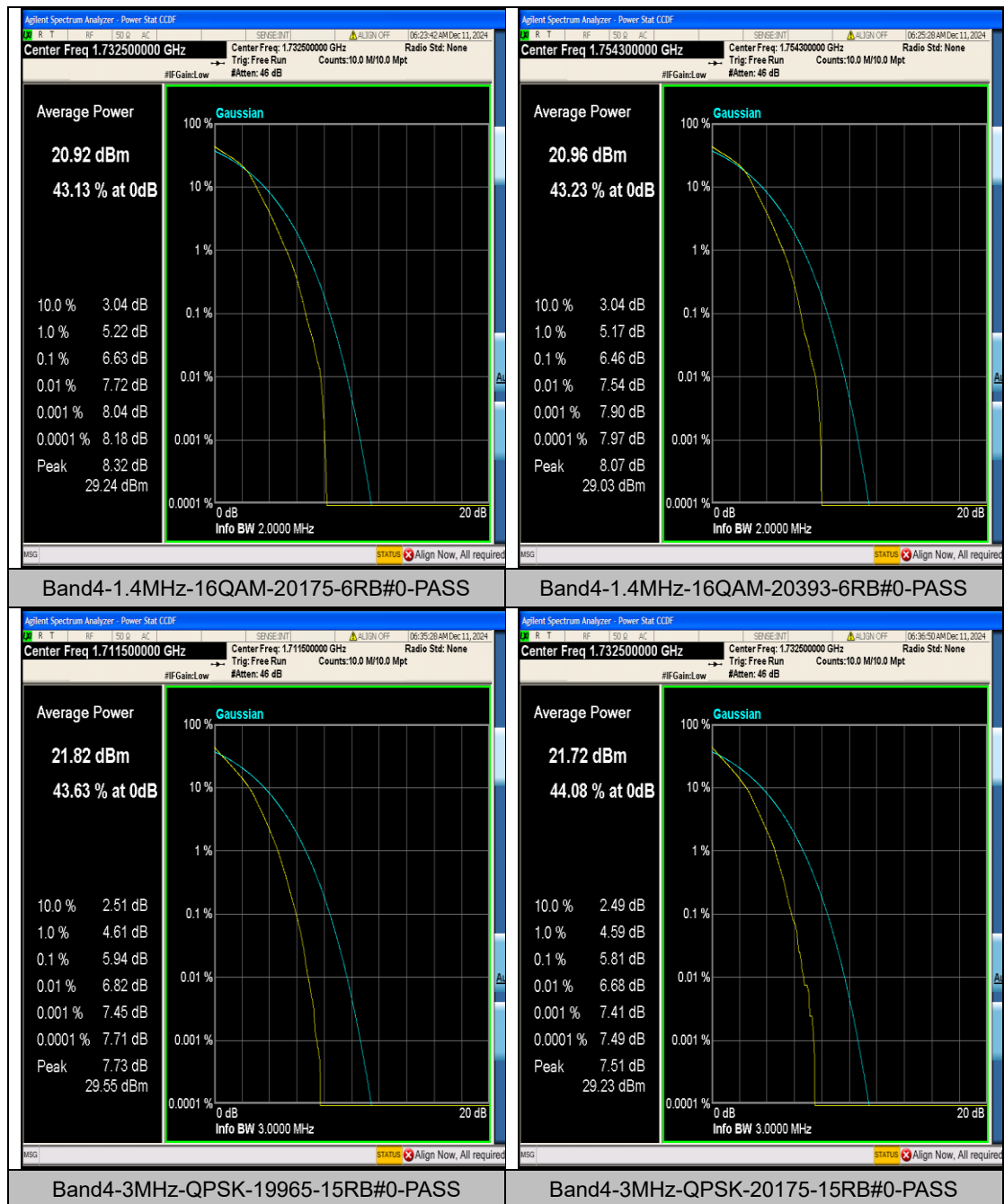
## Appendix B: Peak-to-Average Ratio(CCDF)

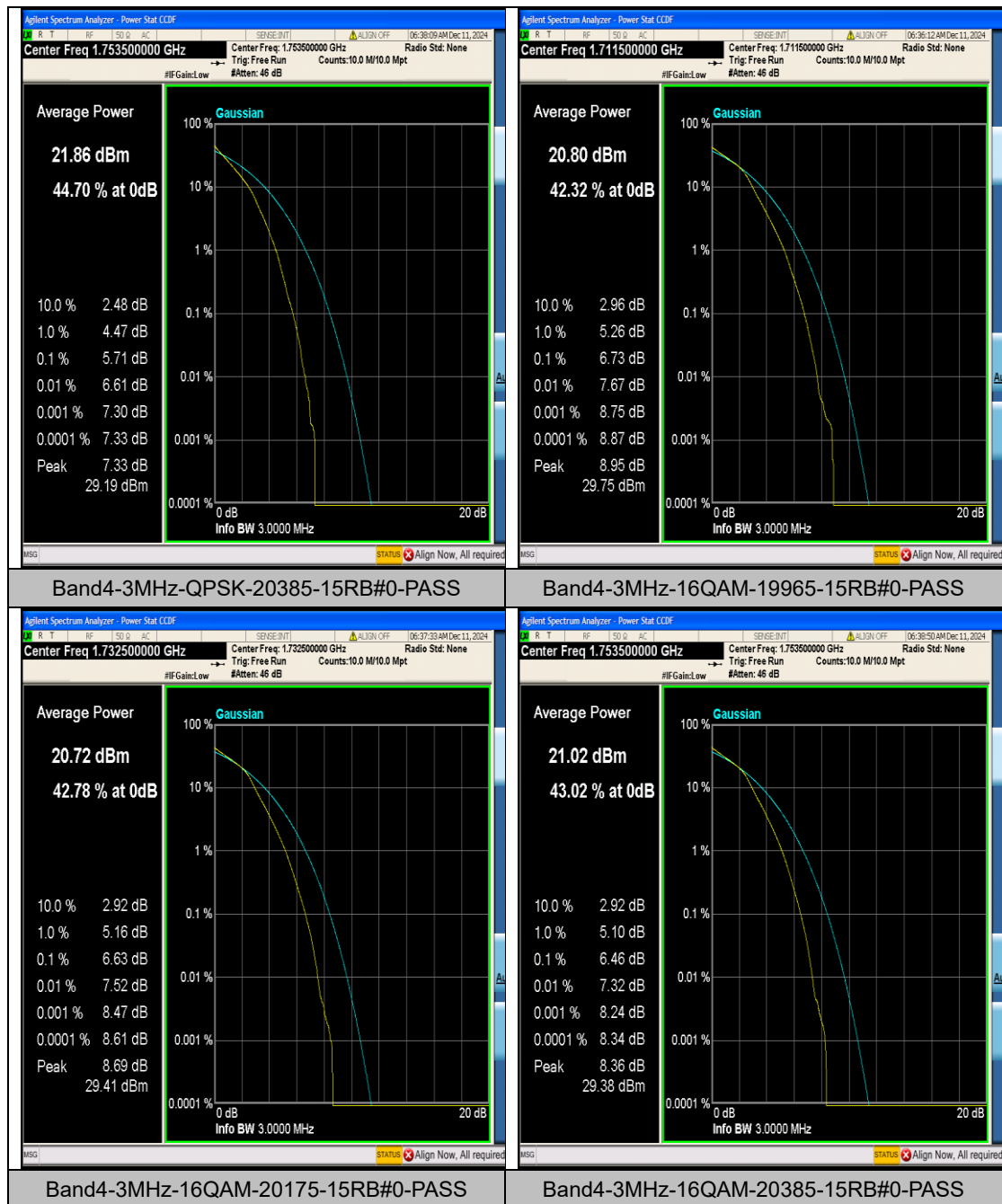
### Test Result

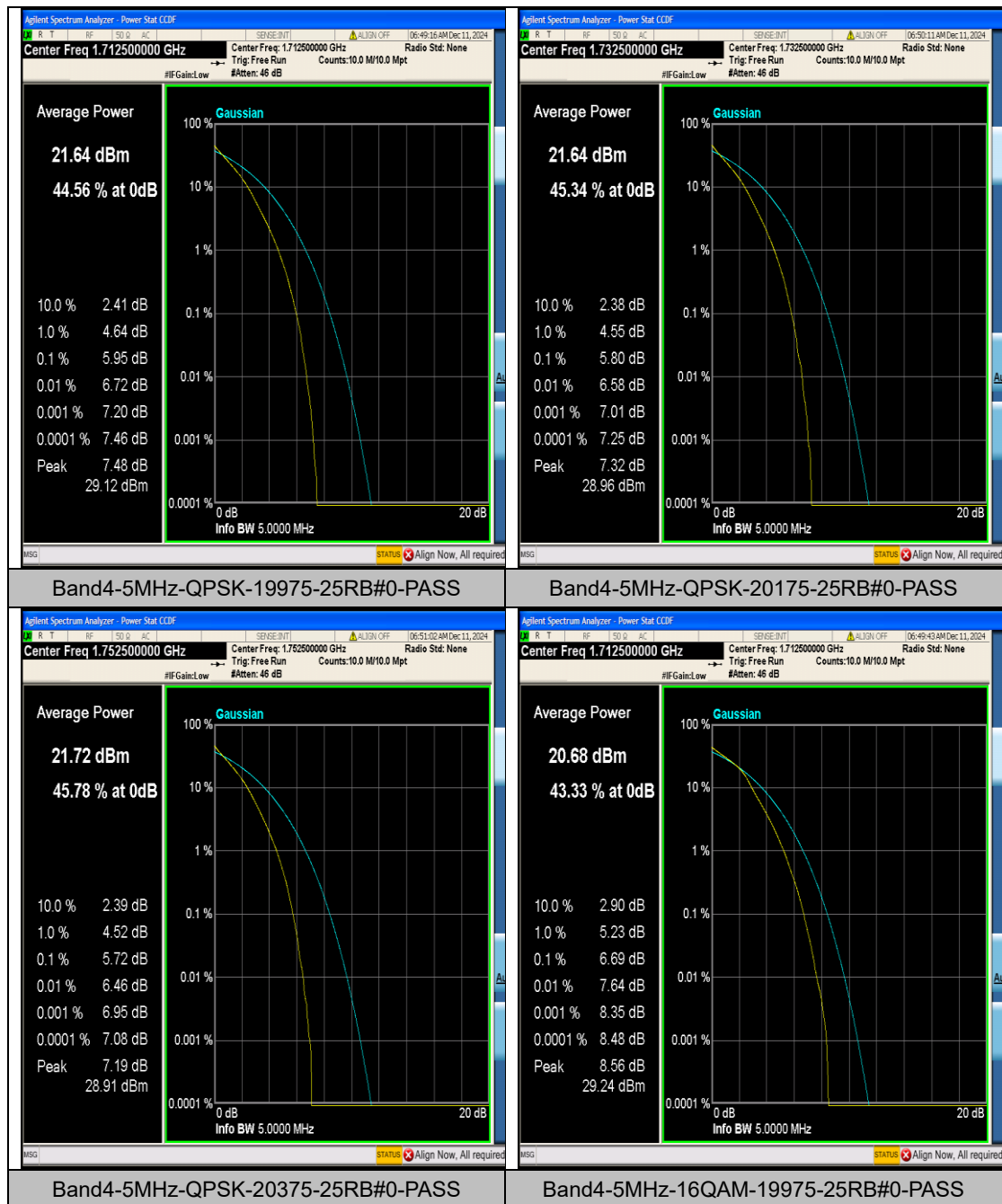
| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|-------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band4 | 1.4MHz    | QPSK       | 19957   | 6RB#0            | 5.95       | 13        | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 6RB#0            | 5.83       | 13        | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 6RB#0            | 5.71       | 13        | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 6RB#0            | 6.77       | 13        | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 6RB#0            | 6.63       | 13        | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20393   | 6RB#0            | 6.46       | 13        | PASS    |
| Band4 | 3MHz      | QPSK       | 19965   | 15RB#0           | 5.94       | 13        | PASS    |
| Band4 | 3MHz      | QPSK       | 20175   | 15RB#0           | 5.81       | 13        | PASS    |
| Band4 | 3MHz      | QPSK       | 20385   | 15RB#0           | 5.71       | 13        | PASS    |
| Band4 | 3MHz      | 16QAM      | 19965   | 15RB#0           | 6.73       | 13        | PASS    |
| Band4 | 3MHz      | 16QAM      | 20175   | 15RB#0           | 6.63       | 13        | PASS    |
| Band4 | 3MHz      | 16QAM      | 20385   | 15RB#0           | 6.46       | 13        | PASS    |
| Band4 | 5MHz      | QPSK       | 19975   | 25RB#0           | 5.95       | 13        | PASS    |
| Band4 | 5MHz      | QPSK       | 20175   | 25RB#0           | 5.80       | 13        | PASS    |
| Band4 | 5MHz      | QPSK       | 20375   | 25RB#0           | 5.72       | 13        | PASS    |
| Band4 | 5MHz      | 16QAM      | 19975   | 25RB#0           | 6.69       | 13        | PASS    |
| Band4 | 5MHz      | 16QAM      | 20175   | 25RB#0           | 6.51       | 13        | PASS    |
| Band4 | 5MHz      | 16QAM      | 20375   | 25RB#0           | 6.40       | 13        | PASS    |
| Band4 | 10MHz     | QPSK       | 20000   | 50RB#0           | 5.97       | 13        | PASS    |
| Band4 | 10MHz     | QPSK       | 20175   | 50RB#0           | 5.83       | 13        | PASS    |
| Band4 | 10MHz     | QPSK       | 20350   | 50RB#0           | 5.70       | 13        | PASS    |
| Band4 | 10MHz     | 16QAM      | 20000   | 50RB#0           | 6.71       | 13        | PASS    |
| Band4 | 10MHz     | 16QAM      | 20175   | 50RB#0           | 6.55       | 13        | PASS    |
| Band4 | 10MHz     | 16QAM      | 20350   | 50RB#0           | 6.47       | 13        | PASS    |
| Band4 | 15MHz     | QPSK       | 20025   | 75RB#0           | 6.27       | 13        | PASS    |
| Band4 | 15MHz     | QPSK       | 20175   | 75RB#0           | 6.13       | 13        | PASS    |
| Band4 | 15MHz     | QPSK       | 20325   | 75RB#0           | 6.03       | 13        | PASS    |
| Band4 | 15MHz     | 16QAM      | 20025   | 75RB#0           | 6.74       | 13        | PASS    |
| Band4 | 15MHz     | 16QAM      | 20175   | 75RB#0           | 6.62       | 13        | PASS    |
| Band4 | 15MHz     | 16QAM      | 20325   | 75RB#0           | 6.48       | 13        | PASS    |
| Band4 | 20MHz     | QPSK       | 20050   | 100RB#0          | 5.98       | 13        | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0          | 5.83       | 13        | PASS    |
| Band4 | 20MHz     | QPSK       | 20300   | 100RB#0          | 5.81       | 13        | PASS    |
| Band4 | 20MHz     | 16QAM      | 20050   | 100RB#0          | 6.74       | 13        | PASS    |
| Band4 | 20MHz     | 16QAM      | 20175   | 100RB#0          | 6.61       | 13        | PASS    |
| Band4 | 20MHz     | 16QAM      | 20300   | 100RB#0          | 6.47       | 13        | PASS    |

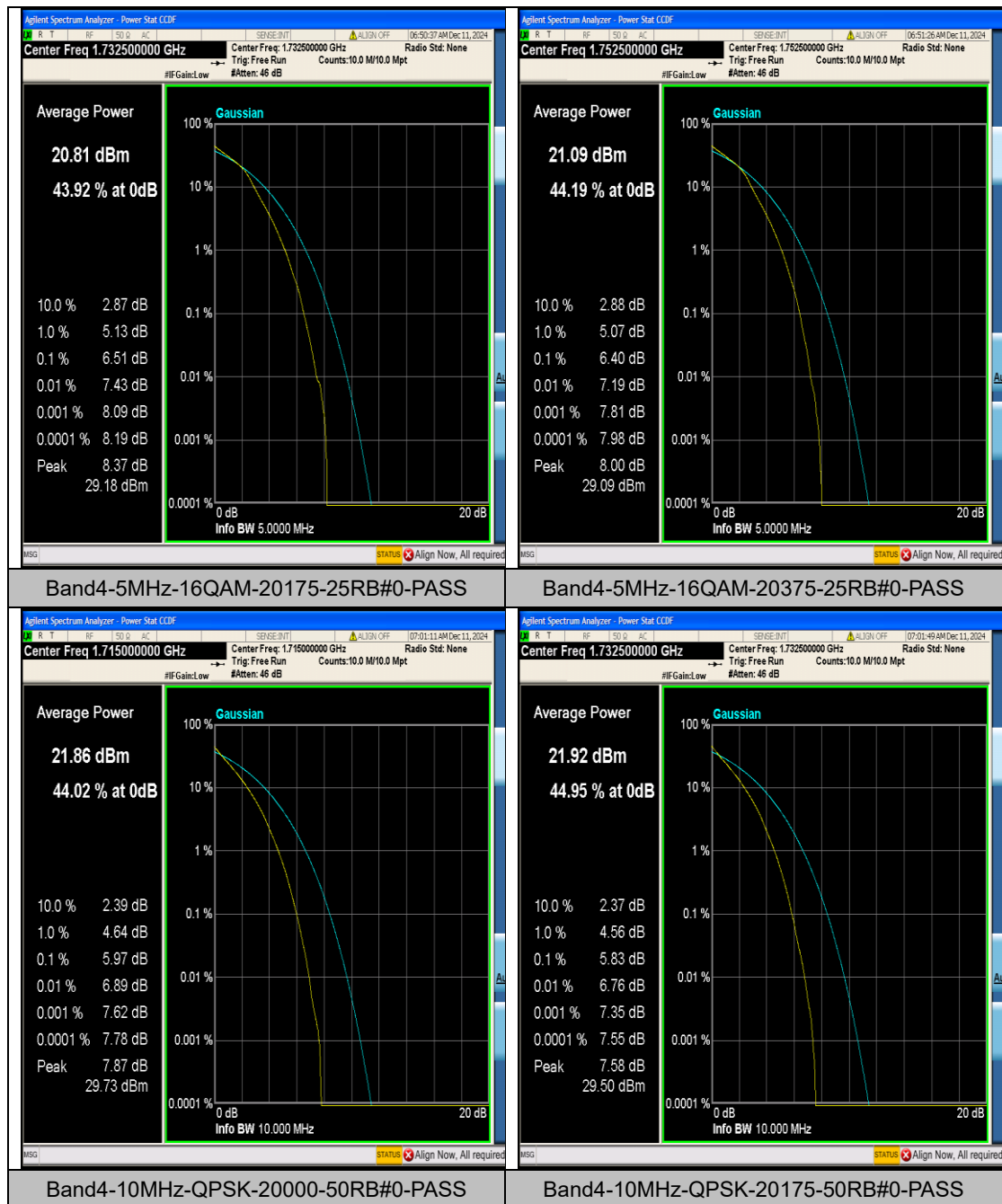
## Test Graphs

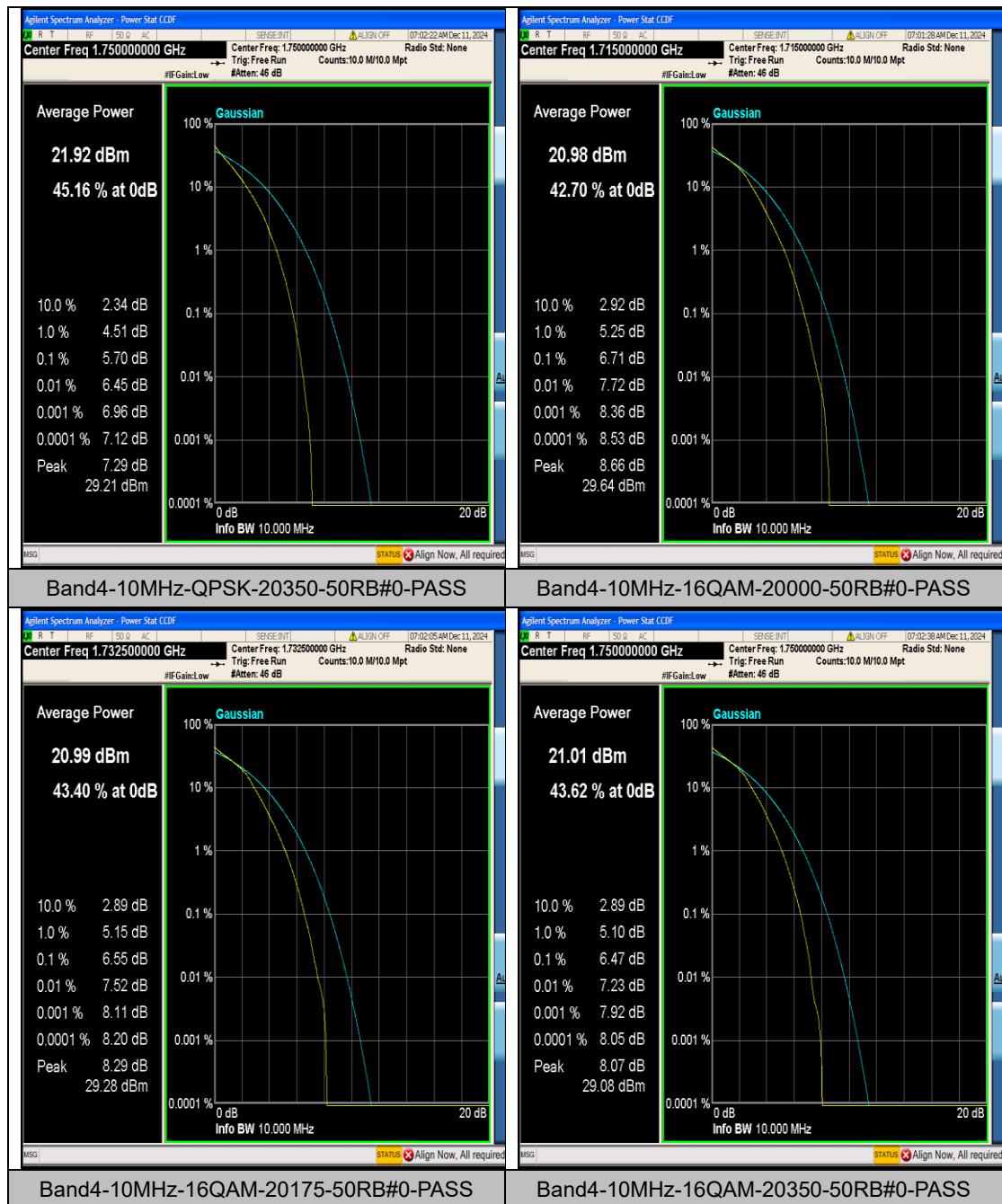


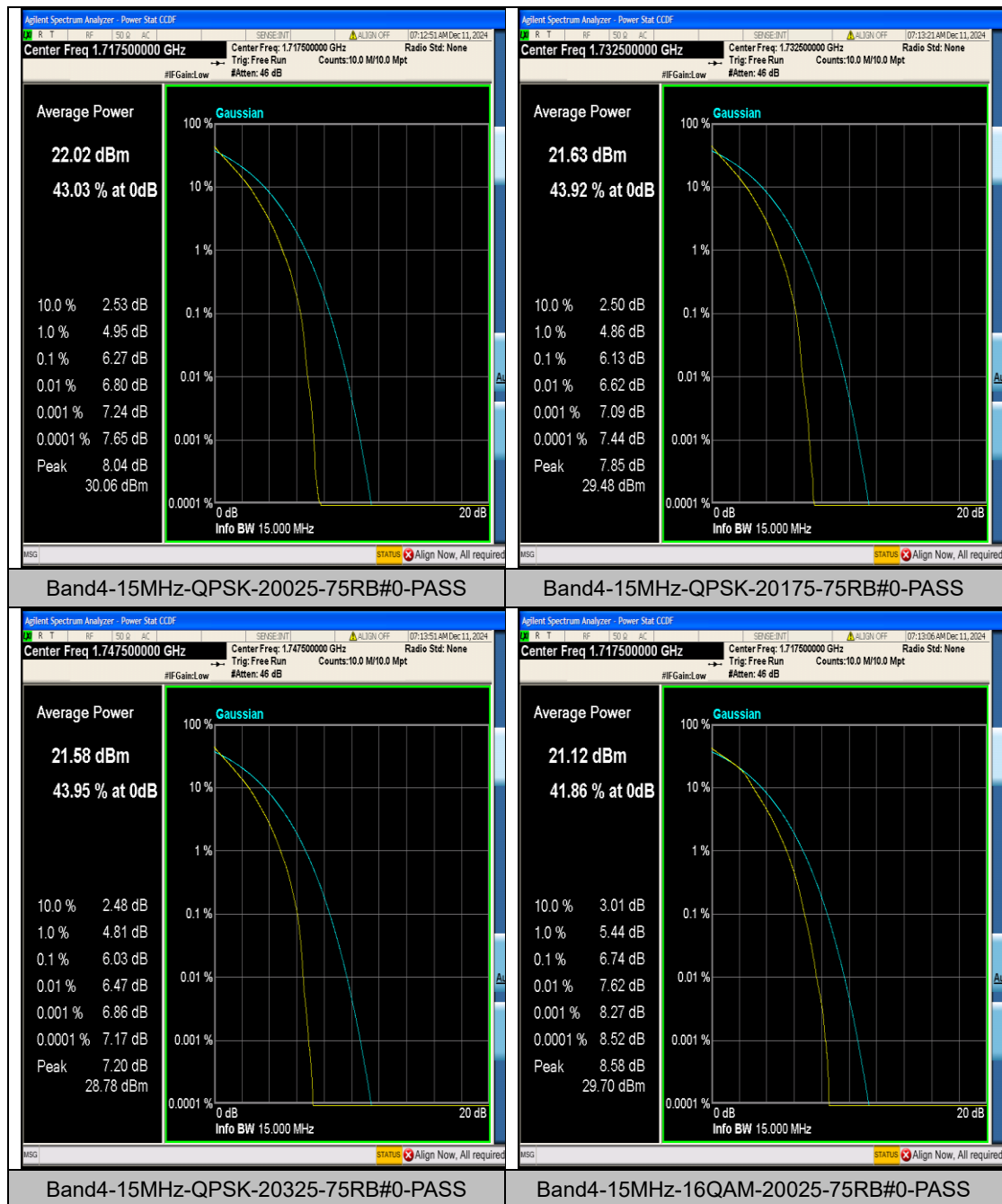


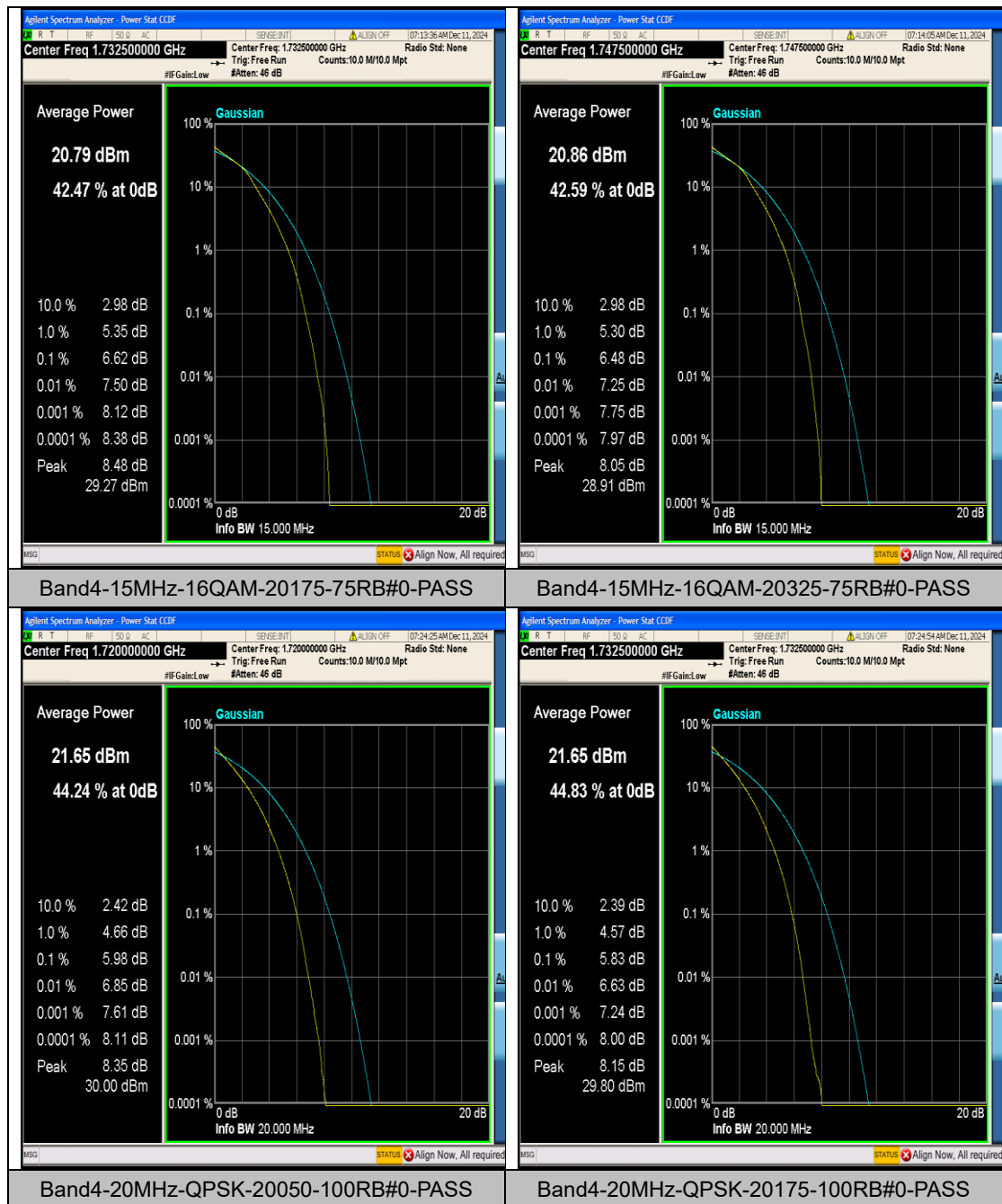


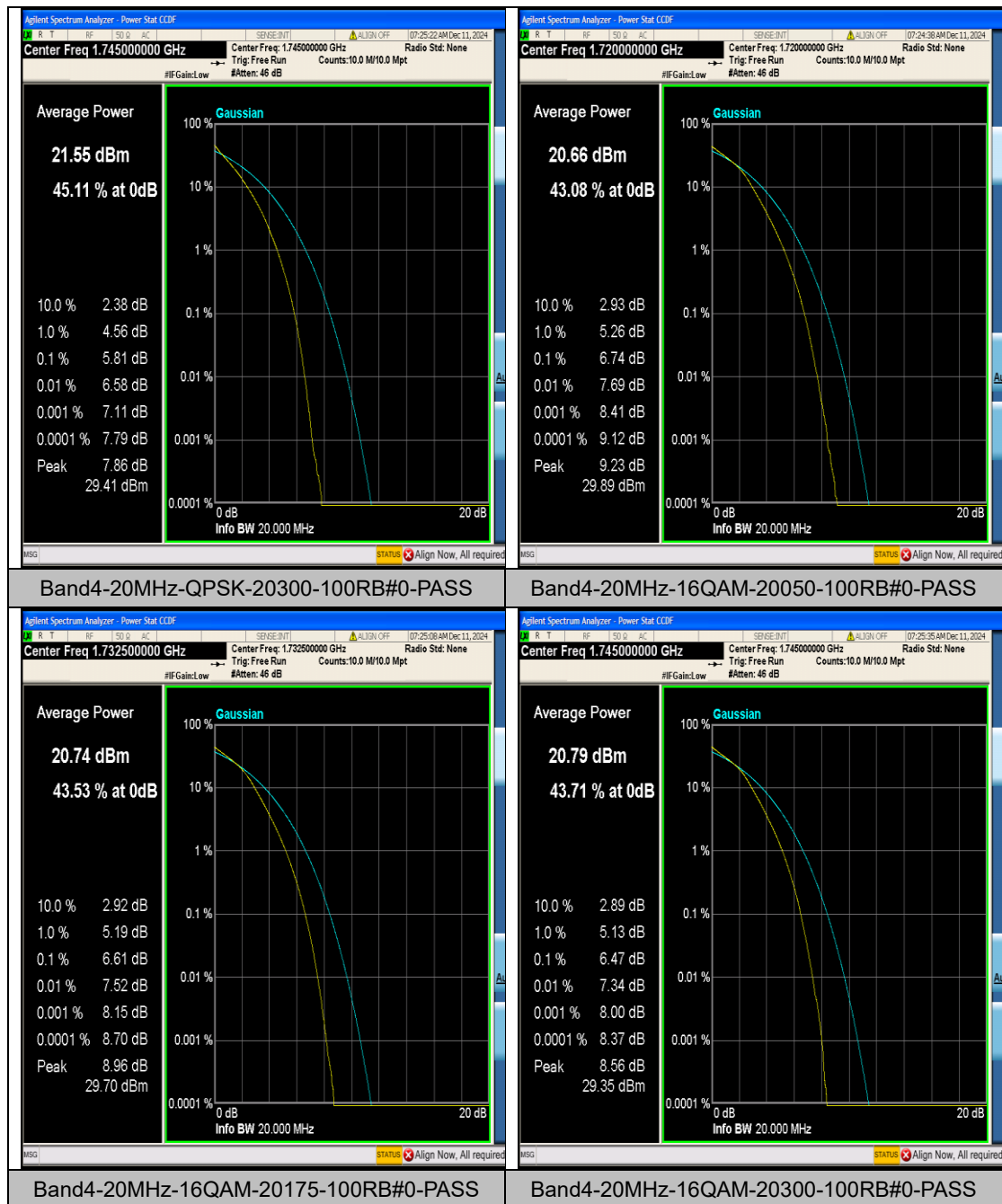












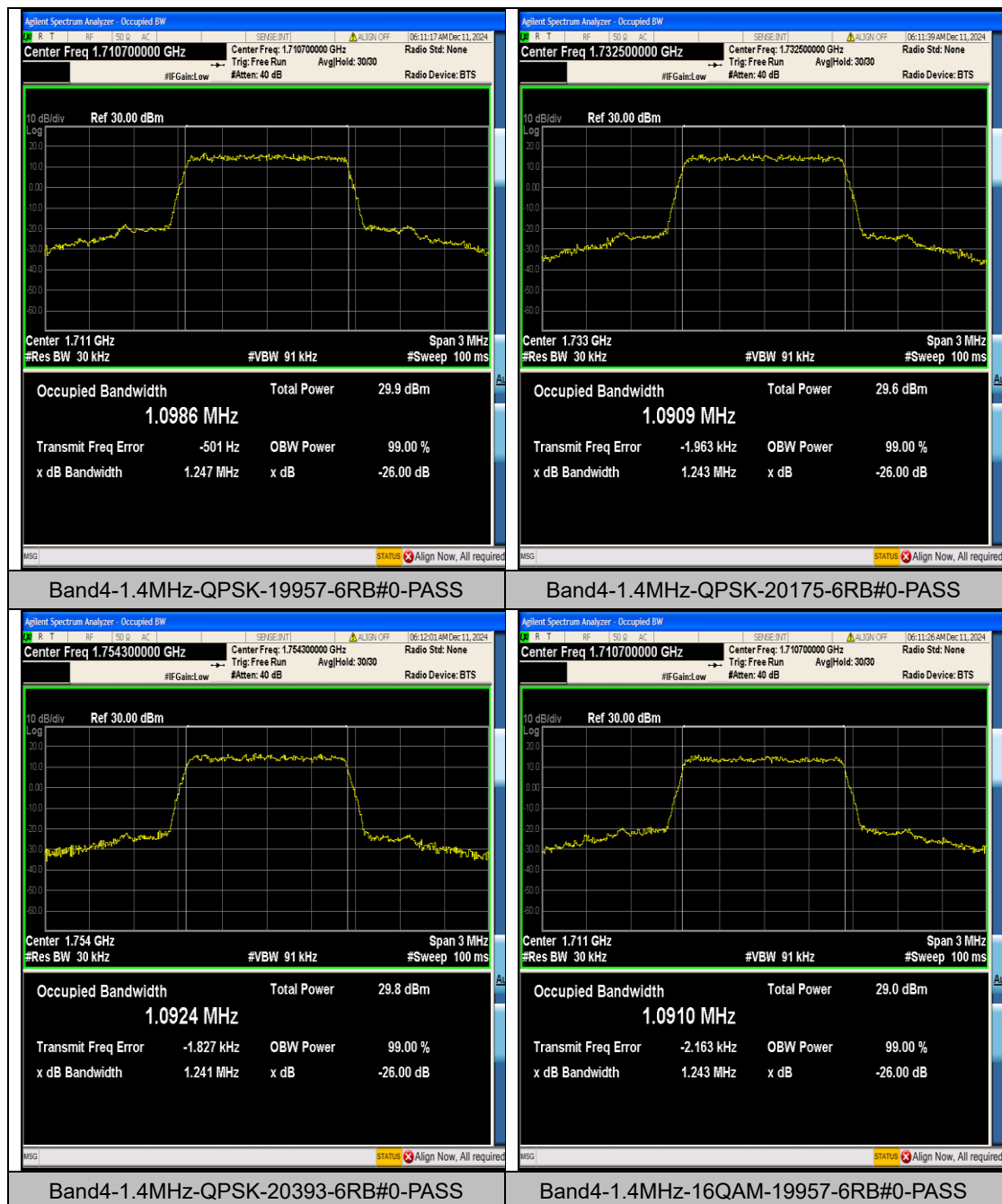
## Appendix C: 26dB Bandwidth and Occupied Bandwidth

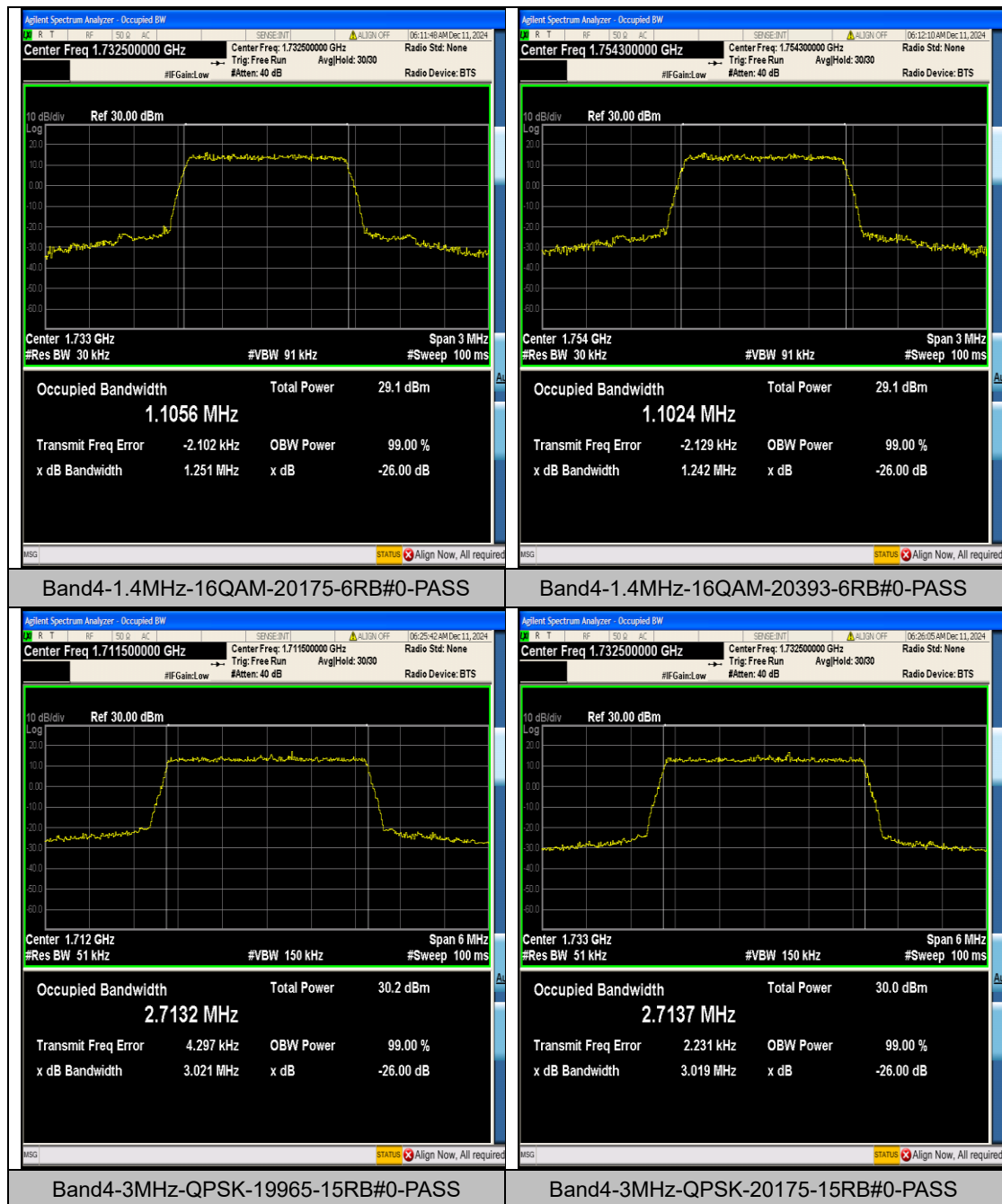
### Test Result

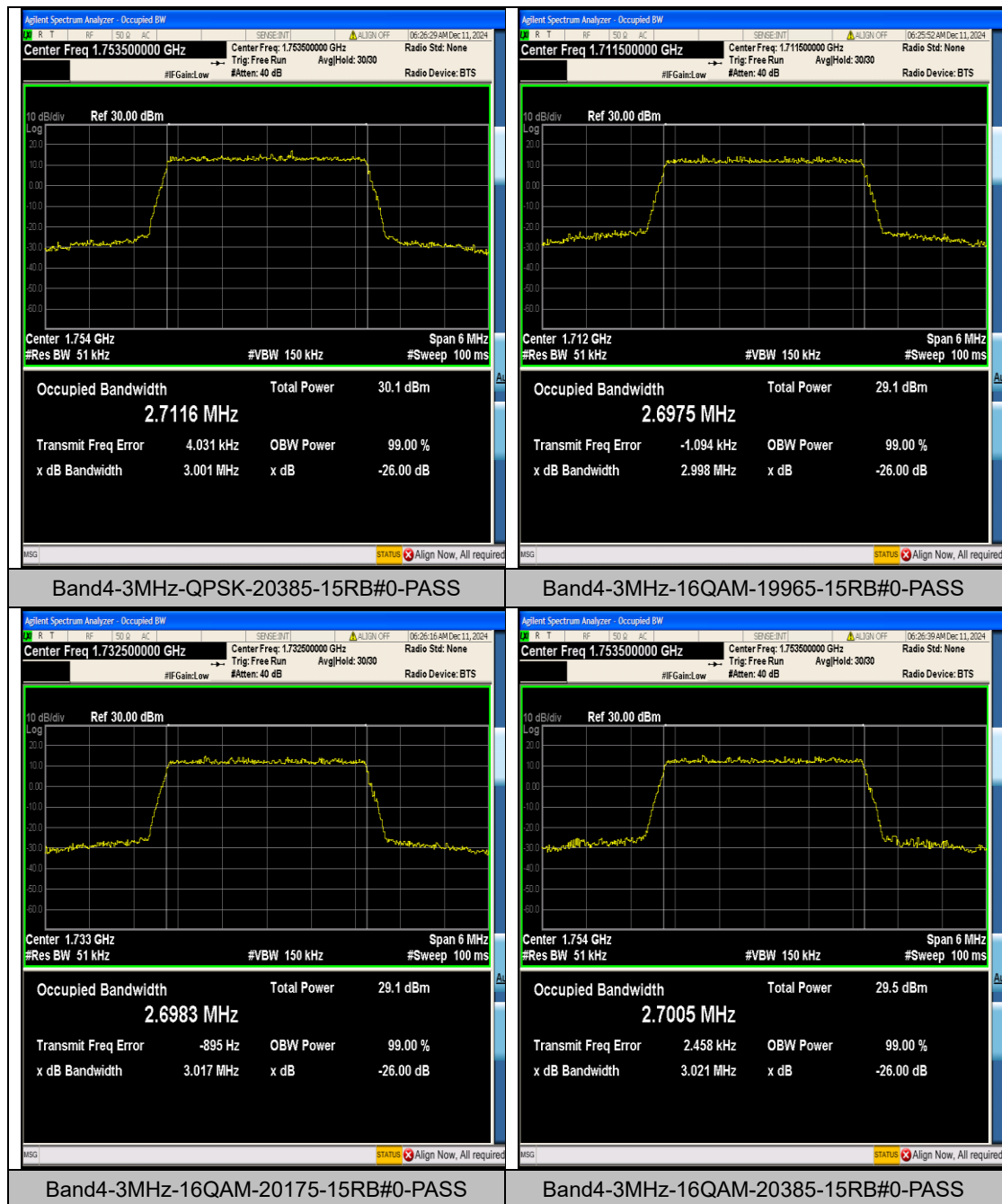
| Band  | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|-------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band4 | 1.4MHz    | QPSK       | 19957   | 6RB#0            | 1.0986                   | 1.247                | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 6RB#0            | 1.0909                   | 1.243                | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 6RB#0            | 1.0924                   | 1.241                | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 6RB#0            | 1.0910                   | 1.243                | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 6RB#0            | 1.1056                   | 1.251                | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20393   | 6RB#0            | 1.1024                   | 1.242                | PASS    |
| Band4 | 3MHz      | QPSK       | 19965   | 15RB#0           | 2.7132                   | 3.021                | PASS    |
| Band4 | 3MHz      | QPSK       | 20175   | 15RB#0           | 2.7137                   | 3.019                | PASS    |
| Band4 | 3MHz      | QPSK       | 20385   | 15RB#0           | 2.7116                   | 3.001                | PASS    |
| Band4 | 3MHz      | 16QAM      | 19965   | 15RB#0           | 2.6975                   | 2.998                | PASS    |
| Band4 | 3MHz      | 16QAM      | 20175   | 15RB#0           | 2.6983                   | 3.017                | PASS    |
| Band4 | 3MHz      | 16QAM      | 20385   | 15RB#0           | 2.7005                   | 3.021                | PASS    |
| Band4 | 5MHz      | QPSK       | 19975   | 25RB#0           | 4.5097                   | 4.976                | PASS    |
| Band4 | 5MHz      | QPSK       | 20175   | 25RB#0           | 4.5092                   | 4.978                | PASS    |
| Band4 | 5MHz      | QPSK       | 20375   | 25RB#0           | 4.5101                   | 4.969                | PASS    |
| Band4 | 5MHz      | 16QAM      | 19975   | 25RB#0           | 4.5059                   | 4.954                | PASS    |
| Band4 | 5MHz      | 16QAM      | 20175   | 25RB#0           | 4.5029                   | 4.959                | PASS    |
| Band4 | 5MHz      | 16QAM      | 20375   | 25RB#0           | 4.5045                   | 4.970                | PASS    |
| Band4 | 10MHz     | QPSK       | 20000   | 50RB#0           | 8.9887                   | 9.858                | PASS    |
| Band4 | 10MHz     | QPSK       | 20175   | 50RB#0           | 8.9951                   | 9.861                | PASS    |
| Band4 | 10MHz     | QPSK       | 20350   | 50RB#0           | 9.0166                   | 9.930                | PASS    |
| Band4 | 10MHz     | 16QAM      | 20000   | 50RB#0           | 8.9913                   | 9.941                | PASS    |
| Band4 | 10MHz     | 16QAM      | 20175   | 50RB#0           | 8.9873                   | 9.902                | PASS    |
| Band4 | 10MHz     | 16QAM      | 20350   | 50RB#0           | 9.0011                   | 9.942                | PASS    |
| Band4 | 15MHz     | QPSK       | 20025   | 75RB#0           | 13.513                   | 14.91                | PASS    |
| Band4 | 15MHz     | QPSK       | 20175   | 75RB#0           | 13.496                   | 14.97                | PASS    |
| Band4 | 15MHz     | QPSK       | 20325   | 75RB#0           | 13.465                   | 14.99                | PASS    |
| Band4 | 15MHz     | 16QAM      | 20025   | 75RB#0           | 13.517                   | 15.00                | PASS    |
| Band4 | 15MHz     | 16QAM      | 20175   | 75RB#0           | 13.506                   | 14.95                | PASS    |
| Band4 | 15MHz     | 16QAM      | 20325   | 75RB#0           | 13.516                   | 14.93                | PASS    |
| Band4 | 20MHz     | QPSK       | 20050   | 100RB#0          | 17.986                   | 19.79                | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0          | 17.983                   | 19.75                | PASS    |
| Band4 | 20MHz     | QPSK       | 20300   | 100RB#0          | 18.064                   | 19.80                | PASS    |
| Band4 | 20MHz     | 16QAM      | 20050   | 100RB#0          | 18.048                   | 19.72                | PASS    |

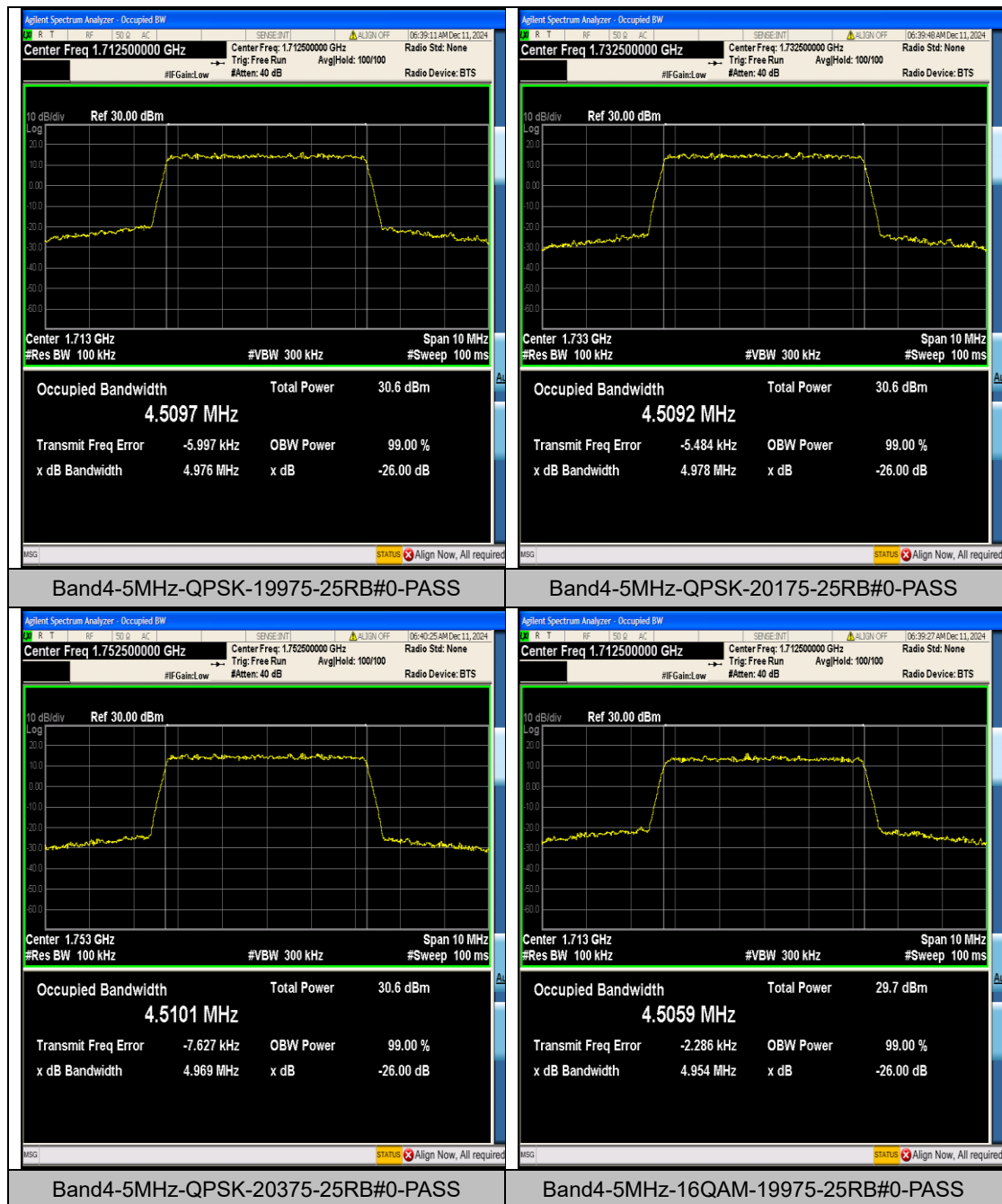
|       |       |       |       |         |        |       |      |
|-------|-------|-------|-------|---------|--------|-------|------|
| Band4 | 20MHz | 16QAM | 20175 | 100RB#0 | 18.024 | 19.72 | PASS |
| Band4 | 20MHz | 16QAM | 20300 | 100RB#0 | 18.013 | 19.79 | PASS |

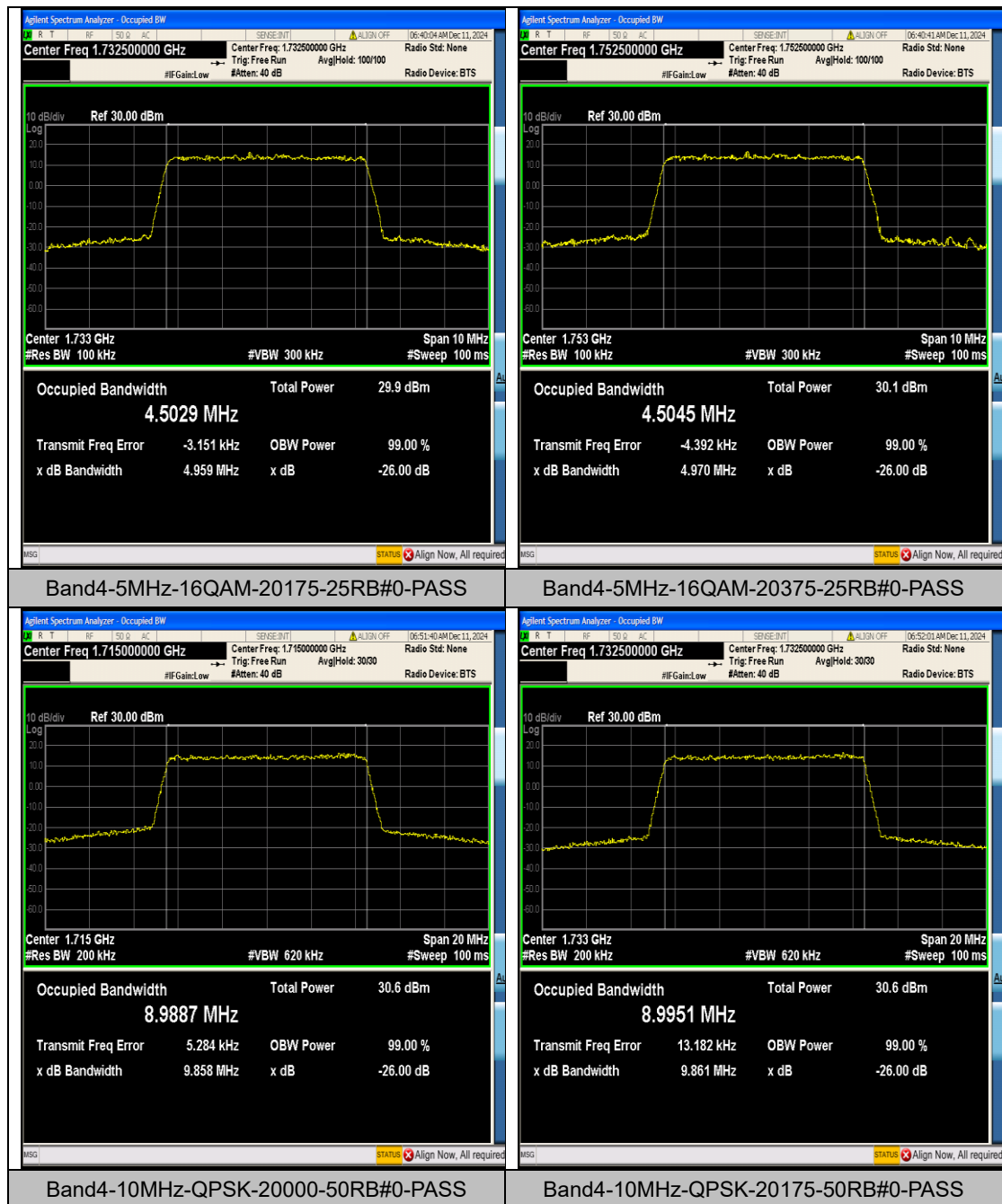
## Test Graphs

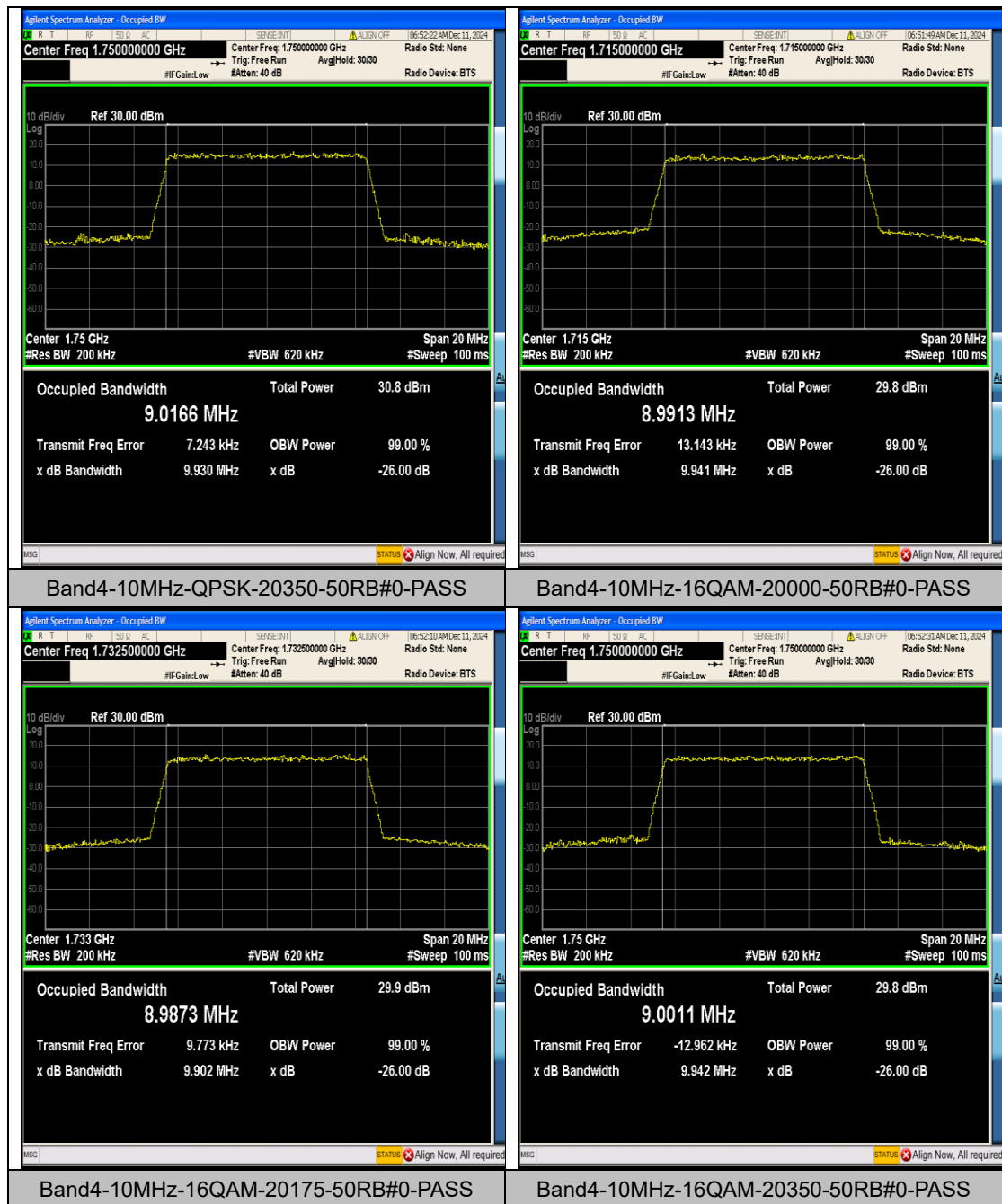


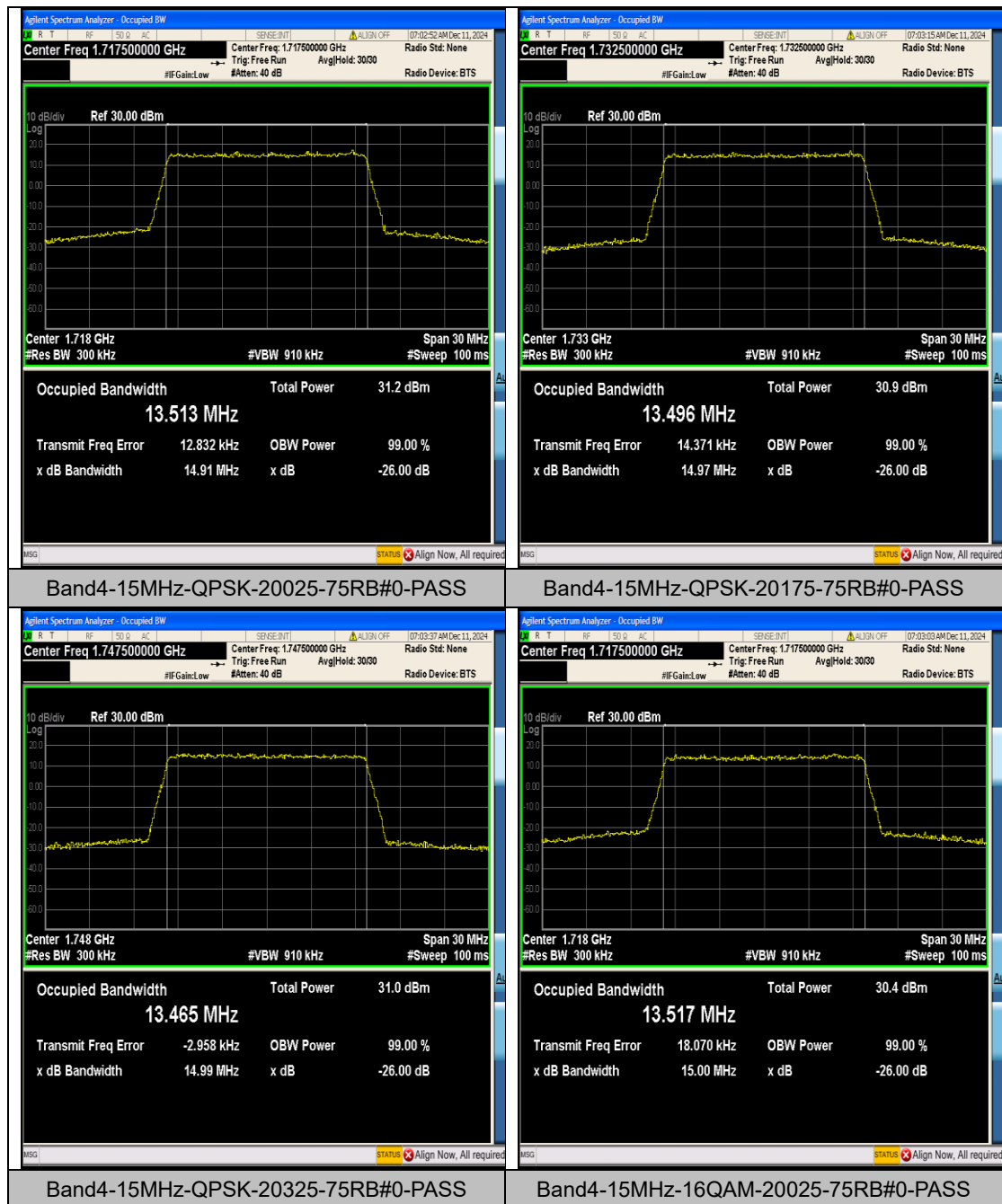


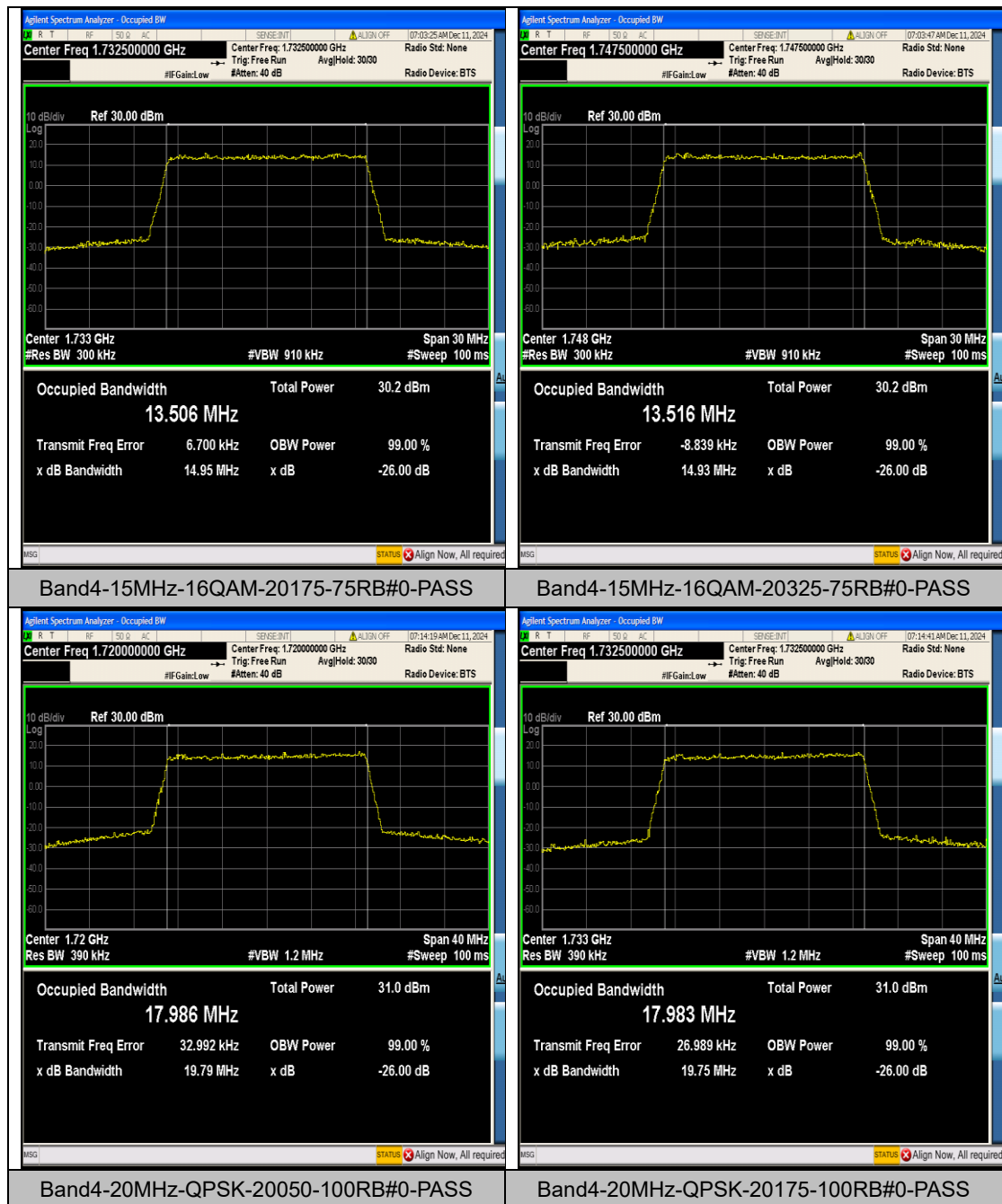


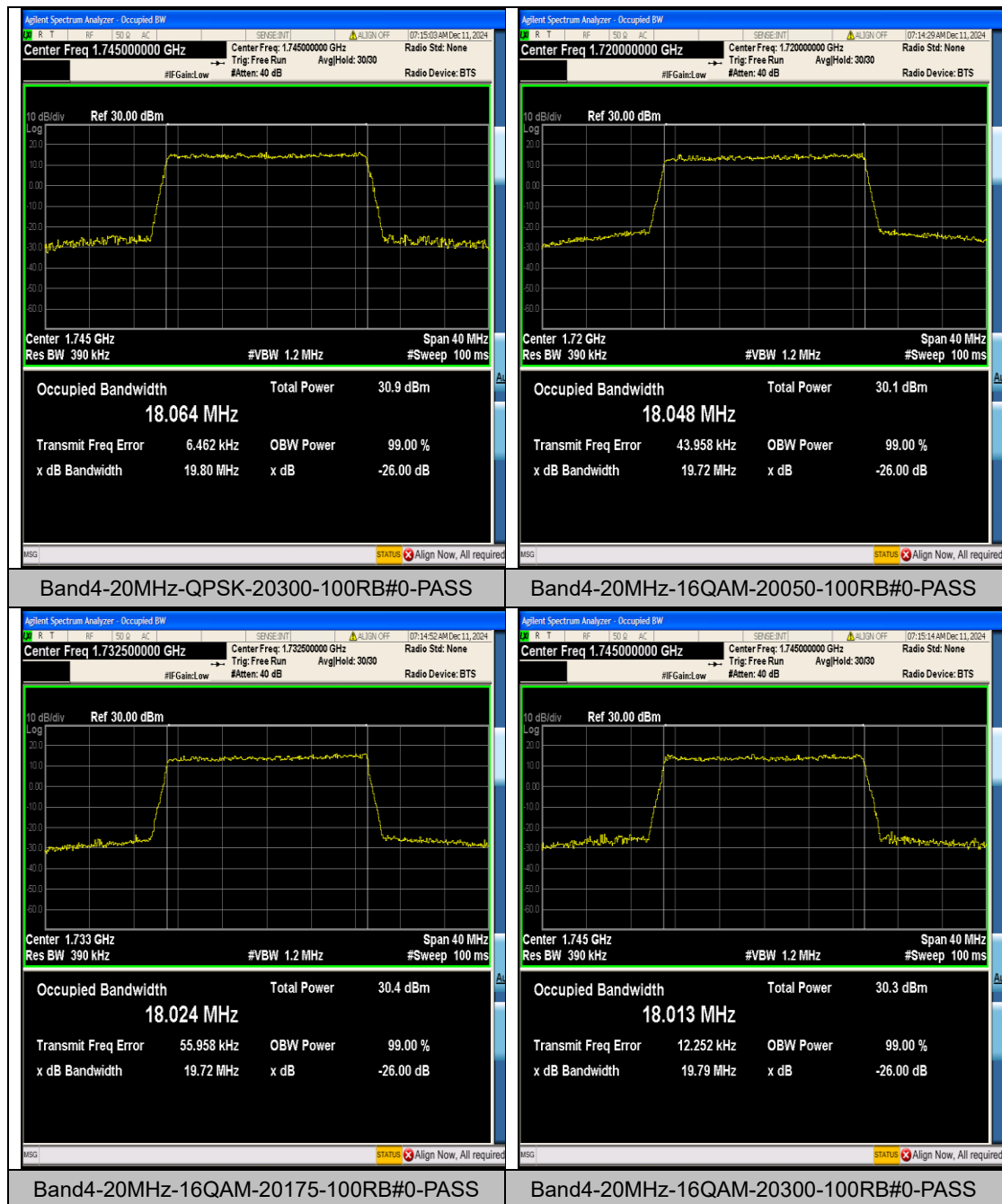












## Appendix D: Band Edge

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | Verdict |
|-------|-----------|------------|---------|------------------|-------------|---------|
| Band4 | 1.4MHz    | QPSK       | 19957   | 6RB#0            | -28.73      | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 6RB#0            | -32.61      | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 6RB#0            | -28.01      | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20393   | 6RB#0            | -33.80      | PASS    |
| Band4 | 3MHz      | QPSK       | 19965   | 15RB#0           | -23.80      | PASS    |
| Band4 | 3MHz      | QPSK       | 20385   | 15RB#0           | -29.08      | PASS    |
| Band4 | 3MHz      | 16QAM      | 19965   | 15RB#0           | -24.88      | PASS    |
| Band4 | 3MHz      | 16QAM      | 20385   | 15RB#0           | -29.51      | PASS    |
| Band4 | 5MHz      | QPSK       | 19975   | 25RB#0           | -24.27      | PASS    |
| Band4 | 5MHz      | QPSK       | 20375   | 25RB#0           | -29.75      | PASS    |
| Band4 | 5MHz      | 16QAM      | 19975   | 25RB#0           | -25.21      | PASS    |
| Band4 | 5MHz      | 16QAM      | 20375   | 25RB#0           | -30.18      | PASS    |
| Band4 | 10MHz     | QPSK       | 20000   | 50RB#0           | -26.05      | PASS    |
| Band4 | 10MHz     | QPSK       | 20350   | 50RB#0           | -31.48      | PASS    |
| Band4 | 10MHz     | 16QAM      | 20000   | 50RB#0           | -27.38      | PASS    |
| Band4 | 10MHz     | 16QAM      | 20350   | 50RB#0           | -32.49      | PASS    |
| Band4 | 15MHz     | QPSK       | 20025   | 75RB#0           | -27.30      | PASS    |
| Band4 | 15MHz     | QPSK       | 20325   | 75RB#0           | -34.03      | PASS    |
| Band4 | 15MHz     | 16QAM      | 20025   | 75RB#0           | -28.23      | PASS    |
| Band4 | 15MHz     | 16QAM      | 20325   | 75RB#0           | -34.84      | PASS    |
| Band4 | 20MHz     | QPSK       | 20050   | 100RB#0          | -29.78      | PASS    |
| Band4 | 20MHz     | QPSK       | 20300   | 100RB#0          | -34.56      | PASS    |
| Band4 | 20MHz     | 16QAM      | 20050   | 100RB#0          | -30.93      | PASS    |
| Band4 | 20MHz     | 16QAM      | 20300   | 100RB#0          | -35.49      | PASS    |

## Test Graphs

