

# **FCC LTE Band Test Data**

**FCC ID** : 2AVYL-ZEUSS68

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

**EUT** : smart phone

**Model Number** : ZEUSS68

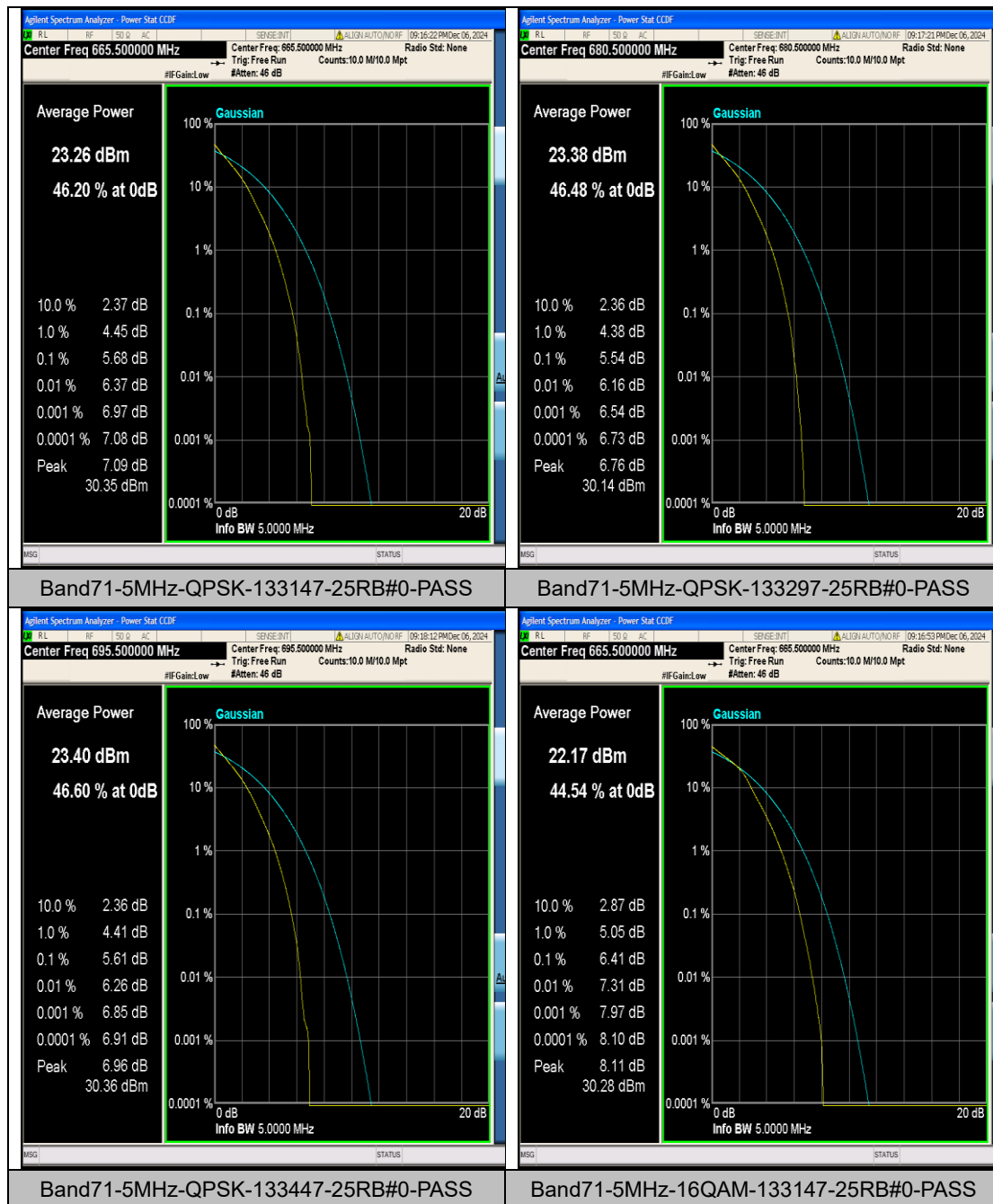
**Reviewed By** : Eric Wang

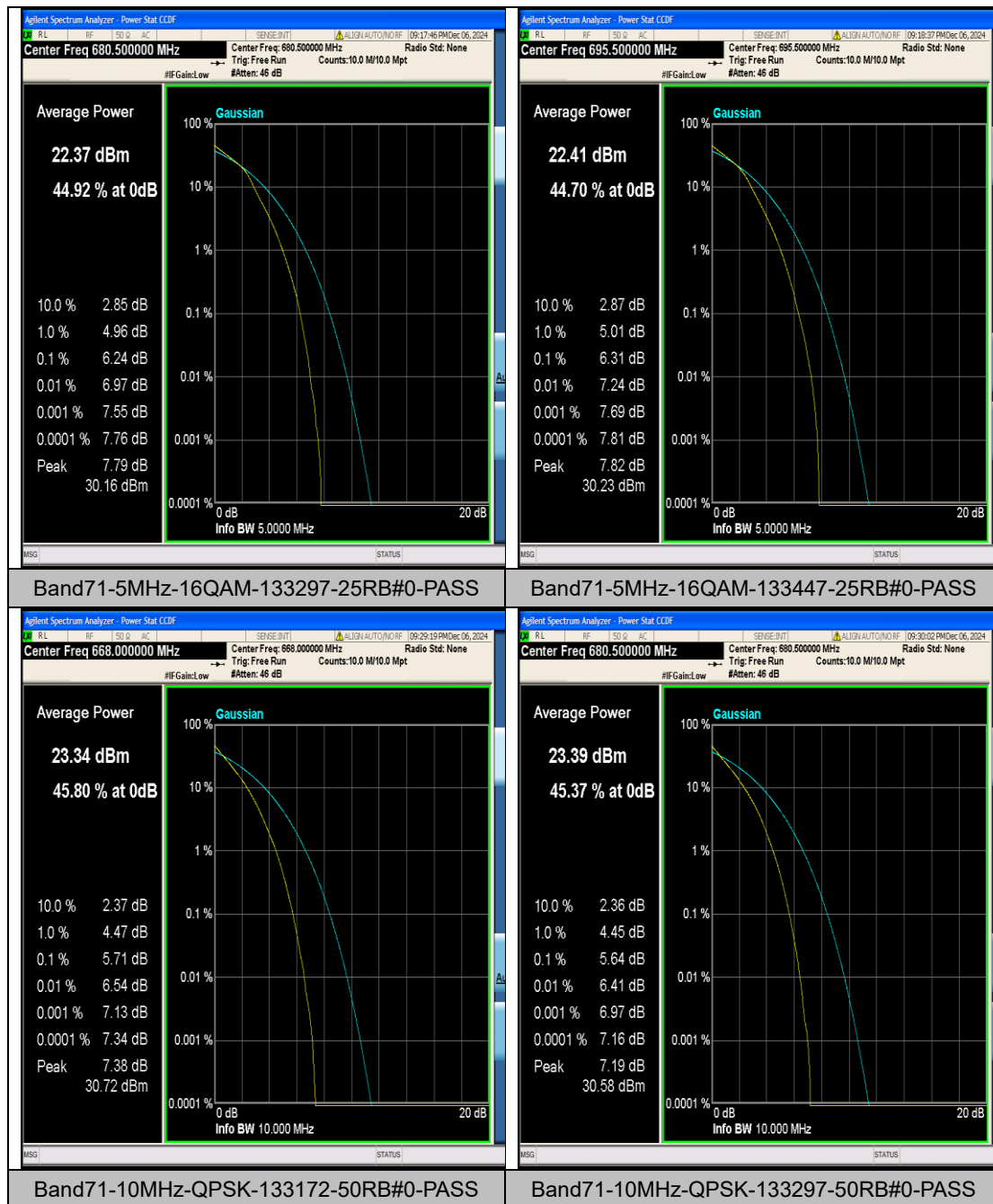
## Appendix B: Peak-to-Average Ratio(CCDF)

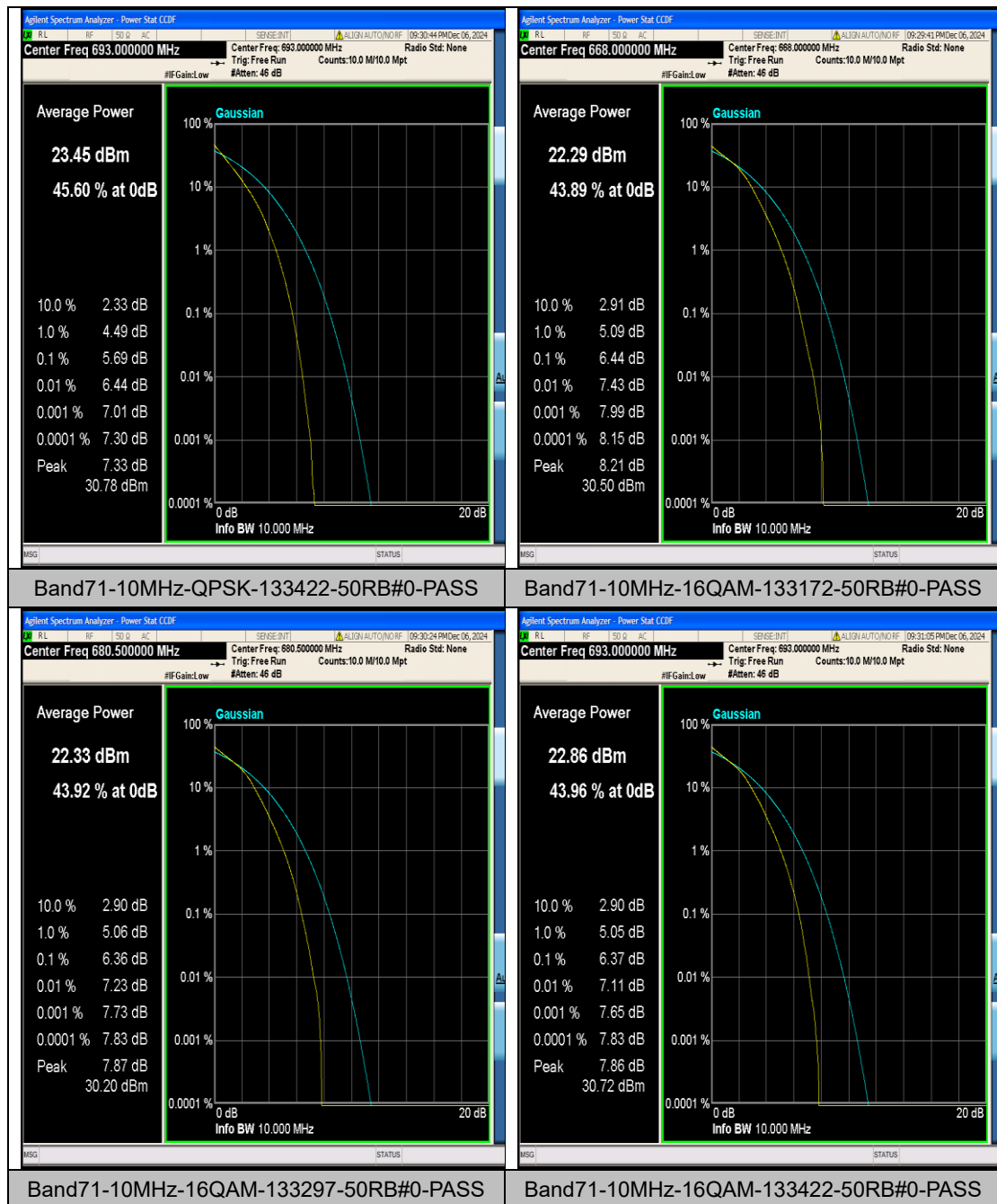
### Test Result

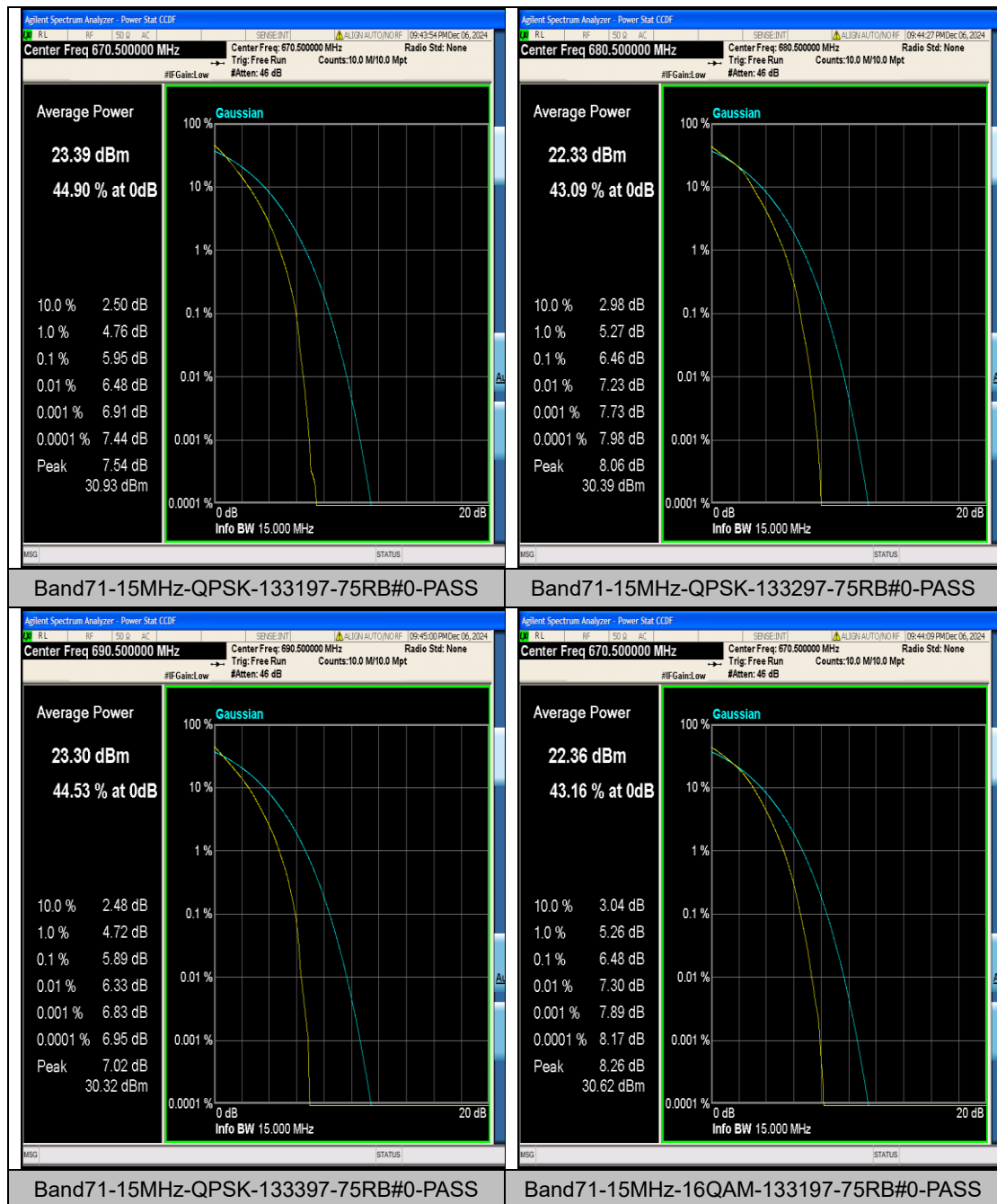
| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dB) | Limit(dB) | Verdict |
|--------|-----------|------------|---------|------------------|------------|-----------|---------|
| Band71 | 5MHz      | QPSK       | 133147  | 25RB#0           | 5.68       | 13        | PASS    |
| Band71 | 5MHz      | QPSK       | 133297  | 25RB#0           | 5.54       | 13        | PASS    |
| Band71 | 5MHz      | QPSK       | 133447  | 25RB#0           | 5.61       | 13        | PASS    |
| Band71 | 5MHz      | 16QAM      | 133147  | 25RB#0           | 6.41       | 13        | PASS    |
| Band71 | 5MHz      | 16QAM      | 133297  | 25RB#0           | 6.24       | 13        | PASS    |
| Band71 | 5MHz      | 16QAM      | 133447  | 25RB#0           | 6.31       | 13        | PASS    |
| Band71 | 10MHz     | QPSK       | 133172  | 50RB#0           | 5.71       | 13        | PASS    |
| Band71 | 10MHz     | QPSK       | 133297  | 50RB#0           | 5.64       | 13        | PASS    |
| Band71 | 10MHz     | QPSK       | 133422  | 50RB#0           | 5.69       | 13        | PASS    |
| Band71 | 10MHz     | 16QAM      | 133172  | 50RB#0           | 6.44       | 13        | PASS    |
| Band71 | 10MHz     | 16QAM      | 133297  | 50RB#0           | 6.36       | 13        | PASS    |
| Band71 | 10MHz     | 16QAM      | 133422  | 50RB#0           | 6.37       | 13        | PASS    |
| Band71 | 15MHz     | QPSK       | 133197  | 75RB#0           | 5.95       | 13        | PASS    |
| Band71 | 15MHz     | QPSK       | 133297  | 75RB#0           | 6.46       | 13        | PASS    |
| Band71 | 15MHz     | QPSK       | 133397  | 75RB#0           | 5.89       | 13        | PASS    |
| Band71 | 15MHz     | 16QAM      | 133197  | 75RB#0           | 6.48       | 13        | PASS    |
| Band71 | 15MHz     | 16QAM      | 133297  | 75RB#0           | 6.45       | 13        | PASS    |
| Band71 | 15MHz     | 16QAM      | 133397  | 75RB#0           | 6.42       | 13        | PASS    |
| Band71 | 20MHz     | QPSK       | 133222  | 100RB#0          | 5.80       | 13        | PASS    |
| Band71 | 20MHz     | QPSK       | 133322  | 100RB#0          | 5.72       | 13        | PASS    |
| Band71 | 20MHz     | QPSK       | 133372  | 100RB#0          | 5.58       | 13        | PASS    |
| Band71 | 20MHz     | 16QAM      | 133222  | 100RB#0          | 6.44       | 13        | PASS    |
| Band71 | 20MHz     | 16QAM      | 133322  | 100RB#0          | 6.43       | 13        | PASS    |
| Band71 | 20MHz     | 16QAM      | 133372  | 100RB#0          | 6.29       | 13        | PASS    |

## Test Graphs

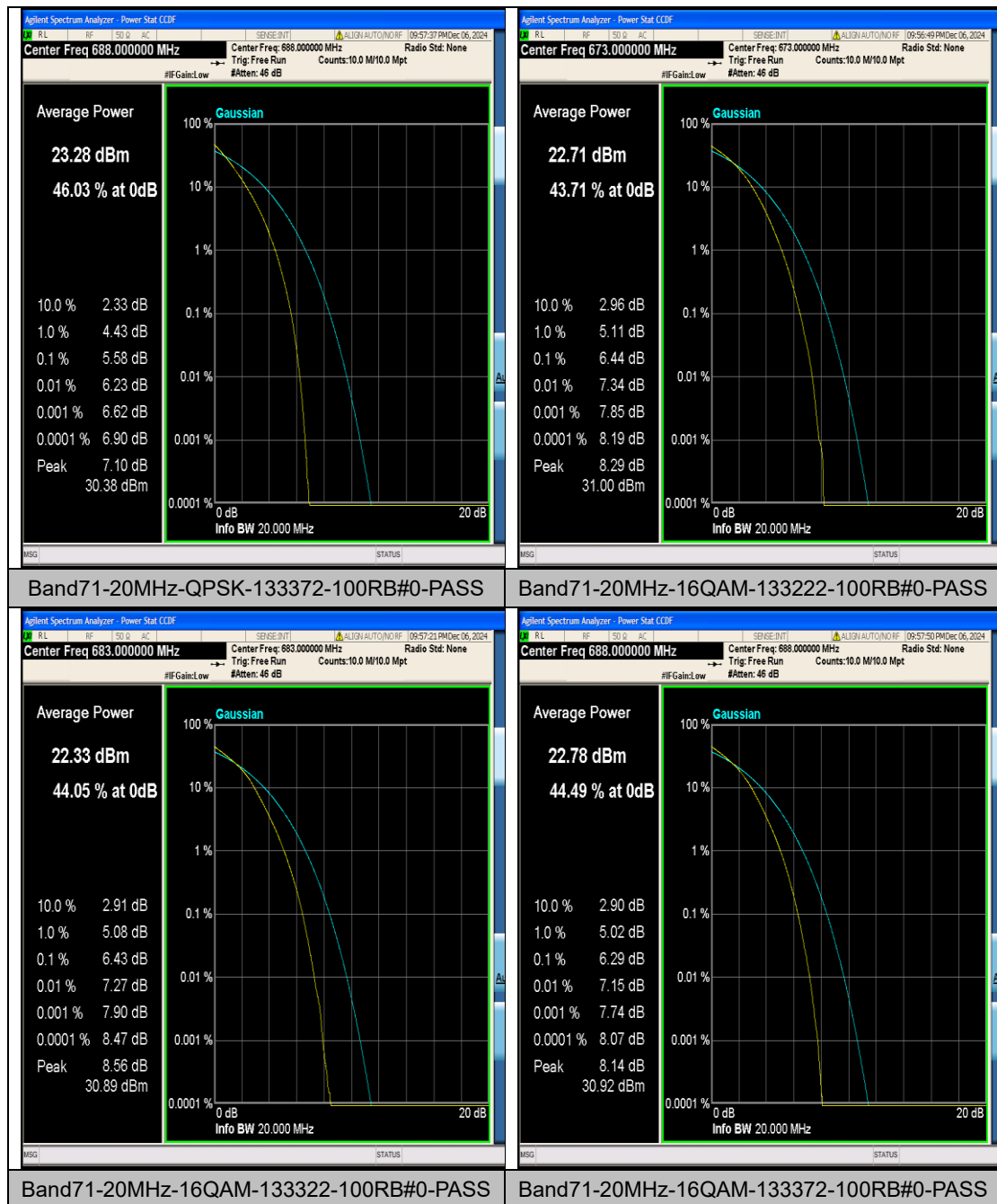










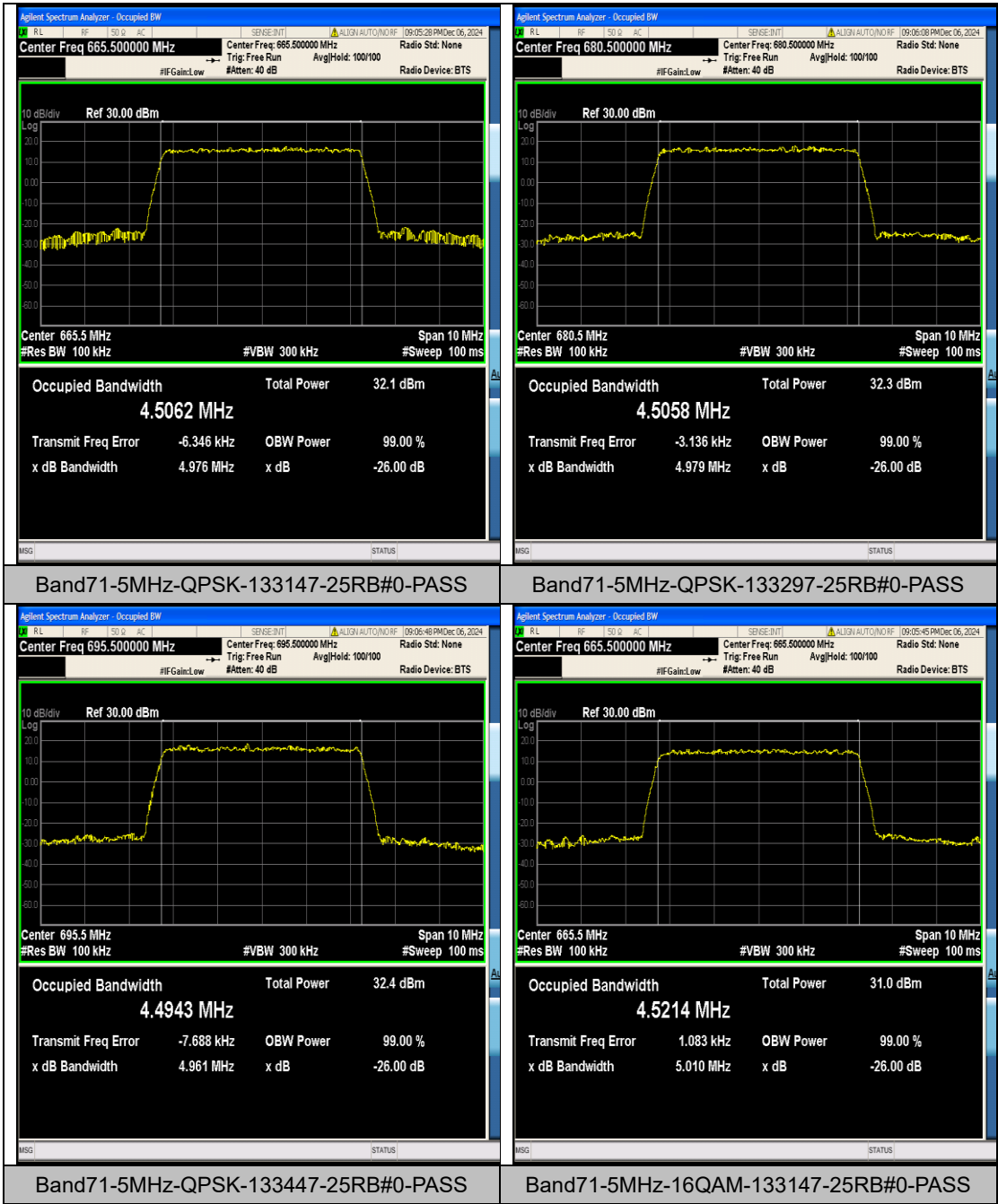


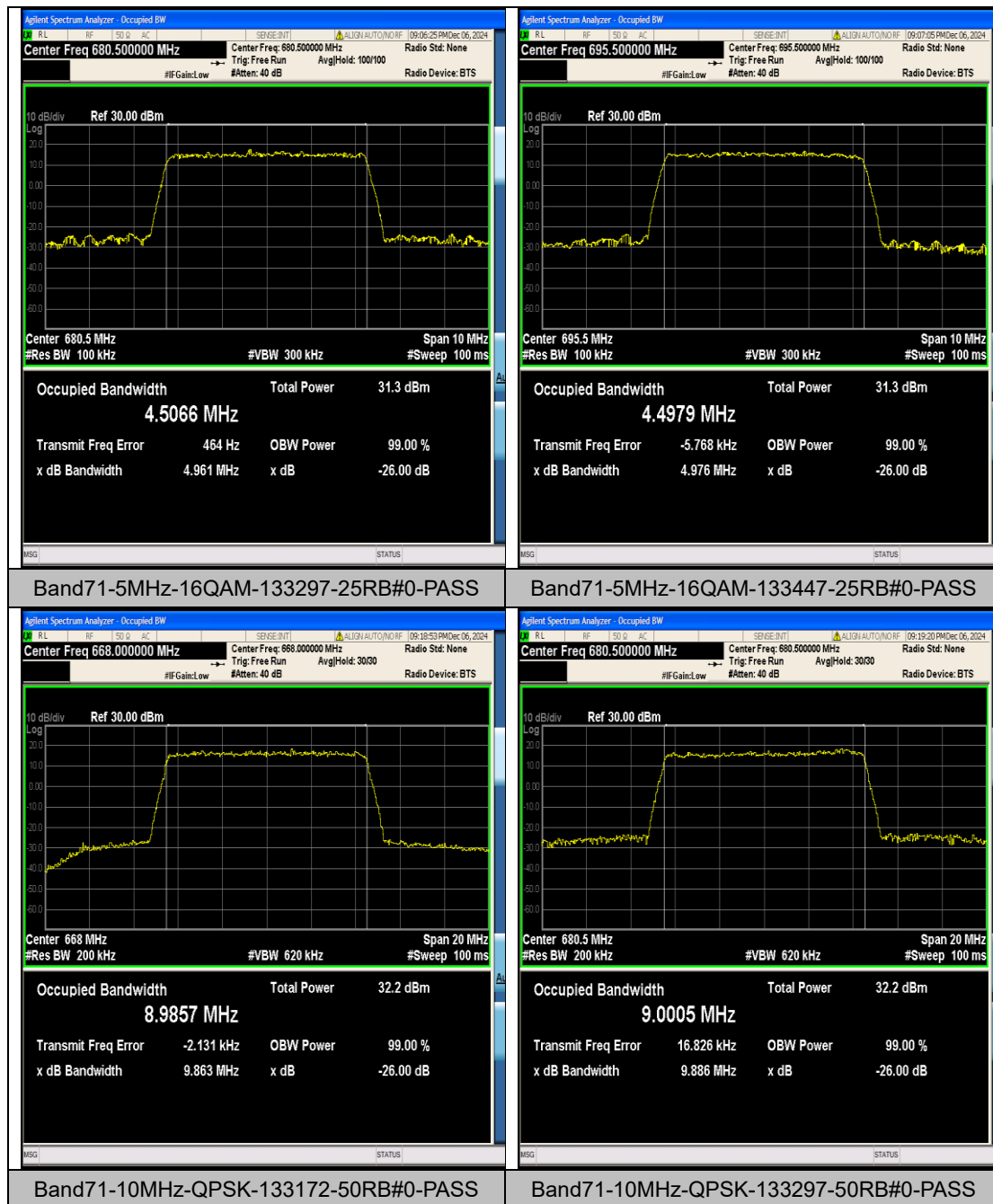
## Appendix C: 26dB Bandwidth and Occupied Bandwidth

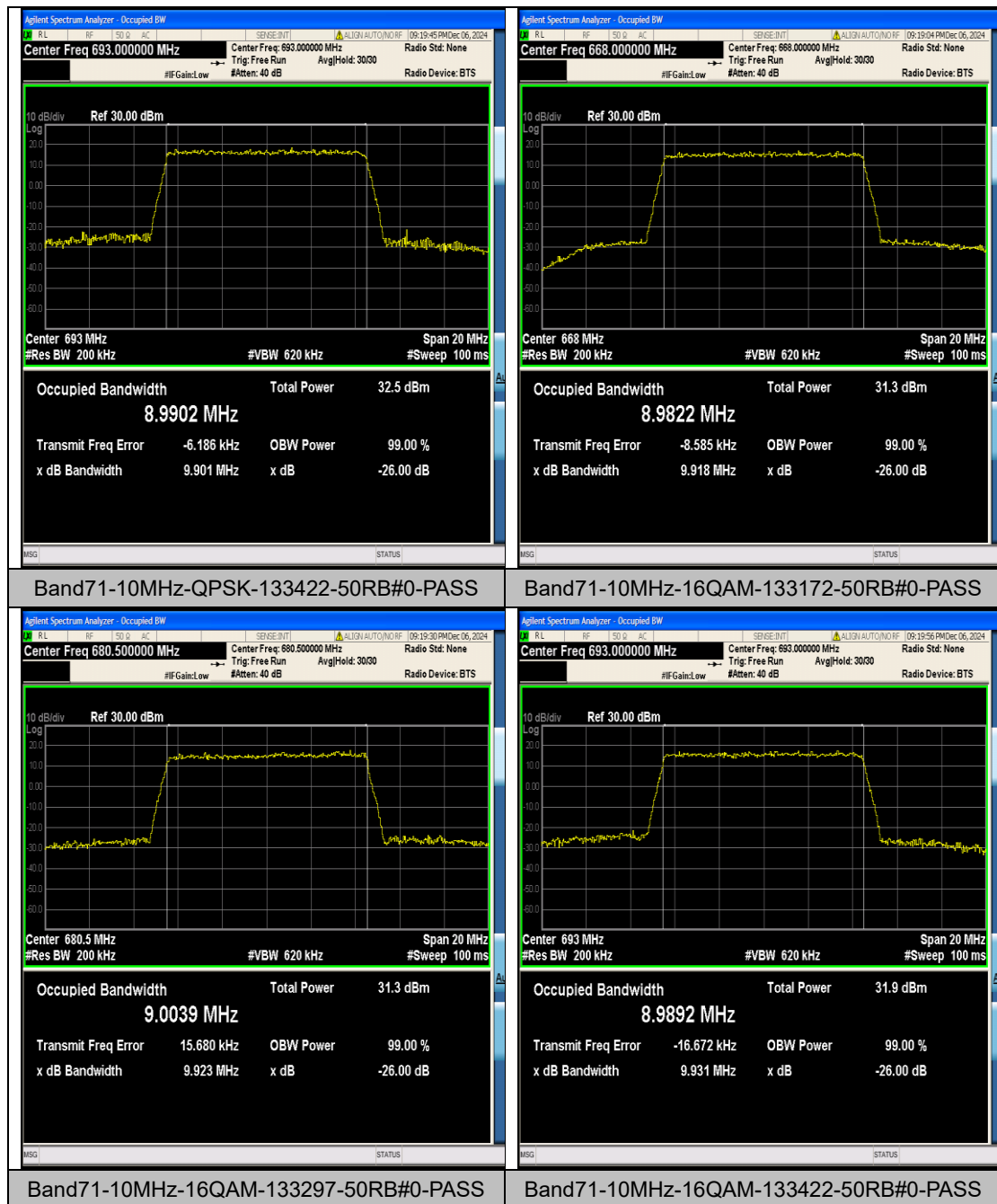
### Test Result

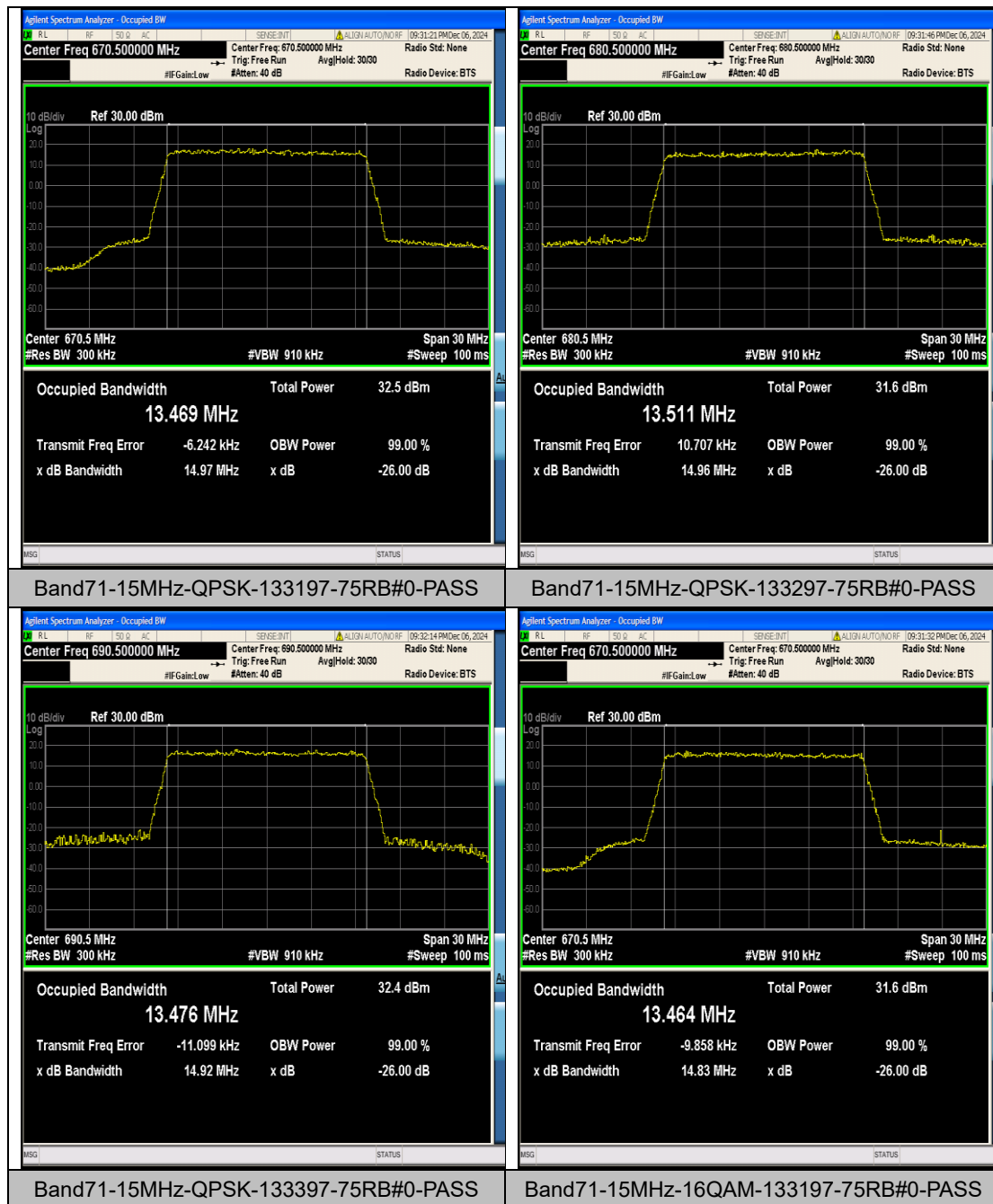
| Band   | Bandwidth | Modulation | Channel | RB Configuration | Occupied Bandwidth (MHz) | 26dB Bandwidth (MHz) | Verdict |
|--------|-----------|------------|---------|------------------|--------------------------|----------------------|---------|
| Band71 | 5MHz      | QPSK       | 133147  | 25RB#0           | 4.5062                   | 4.976                | PASS    |
| Band71 | 5MHz      | QPSK       | 133297  | 25RB#0           | 4.5058                   | 4.979                | PASS    |
| Band71 | 5MHz      | QPSK       | 133447  | 25RB#0           | 4.4943                   | 4.961                | PASS    |
| Band71 | 5MHz      | 16QAM      | 133147  | 25RB#0           | 4.5214                   | 5.010                | PASS    |
| Band71 | 5MHz      | 16QAM      | 133297  | 25RB#0           | 4.5066                   | 4.961                | PASS    |
| Band71 | 5MHz      | 16QAM      | 133447  | 25RB#0           | 4.4979                   | 4.976                | PASS    |
| Band71 | 10MHz     | QPSK       | 133172  | 50RB#0           | 8.9857                   | 9.863                | PASS    |
| Band71 | 10MHz     | QPSK       | 133297  | 50RB#0           | 9.0005                   | 9.886                | PASS    |
| Band71 | 10MHz     | QPSK       | 133422  | 50RB#0           | 8.9902                   | 9.901                | PASS    |
| Band71 | 10MHz     | 16QAM      | 133172  | 50RB#0           | 8.9822                   | 9.918                | PASS    |
| Band71 | 10MHz     | 16QAM      | 133297  | 50RB#0           | 9.0039                   | 9.923                | PASS    |
| Band71 | 10MHz     | 16QAM      | 133422  | 50RB#0           | 8.9892                   | 9.931                | PASS    |
| Band71 | 15MHz     | QPSK       | 133197  | 75RB#0           | 13.469                   | 14.97                | PASS    |
| Band71 | 15MHz     | QPSK       | 133297  | 75RB#0           | 13.511                   | 14.96                | PASS    |
| Band71 | 15MHz     | QPSK       | 133397  | 75RB#0           | 13.476                   | 14.92                | PASS    |
| Band71 | 15MHz     | 16QAM      | 133197  | 75RB#0           | 13.464                   | 14.83                | PASS    |
| Band71 | 15MHz     | 16QAM      | 133297  | 75RB#0           | 13.512                   | 14.98                | PASS    |
| Band71 | 15MHz     | 16QAM      | 133397  | 75RB#0           | 13.483                   | 14.87                | PASS    |
| Band71 | 20MHz     | QPSK       | 133222  | 100RB#0          | 18.014                   | 19.82                | PASS    |
| Band71 | 20MHz     | QPSK       | 133322  | 100RB#0          | 17.963                   | 19.66                | PASS    |
| Band71 | 20MHz     | QPSK       | 133372  | 100RB#0          | 17.936                   | 19.61                | PASS    |
| Band71 | 20MHz     | 16QAM      | 133222  | 100RB#0          | 18.006                   | 19.80                | PASS    |
| Band71 | 20MHz     | 16QAM      | 133322  | 100RB#0          | 17.976                   | 19.62                | PASS    |
| Band71 | 20MHz     | 16QAM      | 133372  | 100RB#0          | 17.987                   | 19.61                | PASS    |

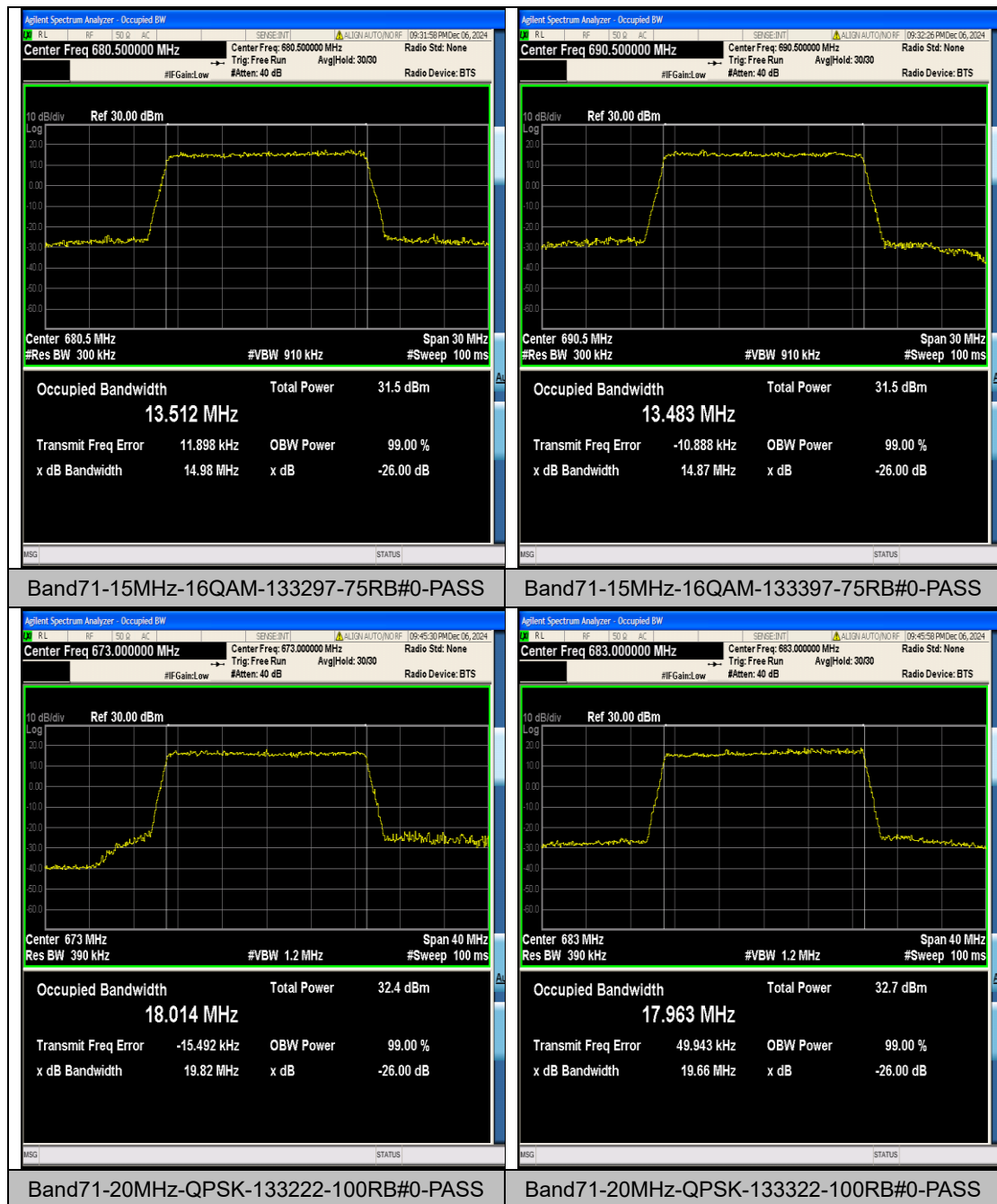
Test Graphs

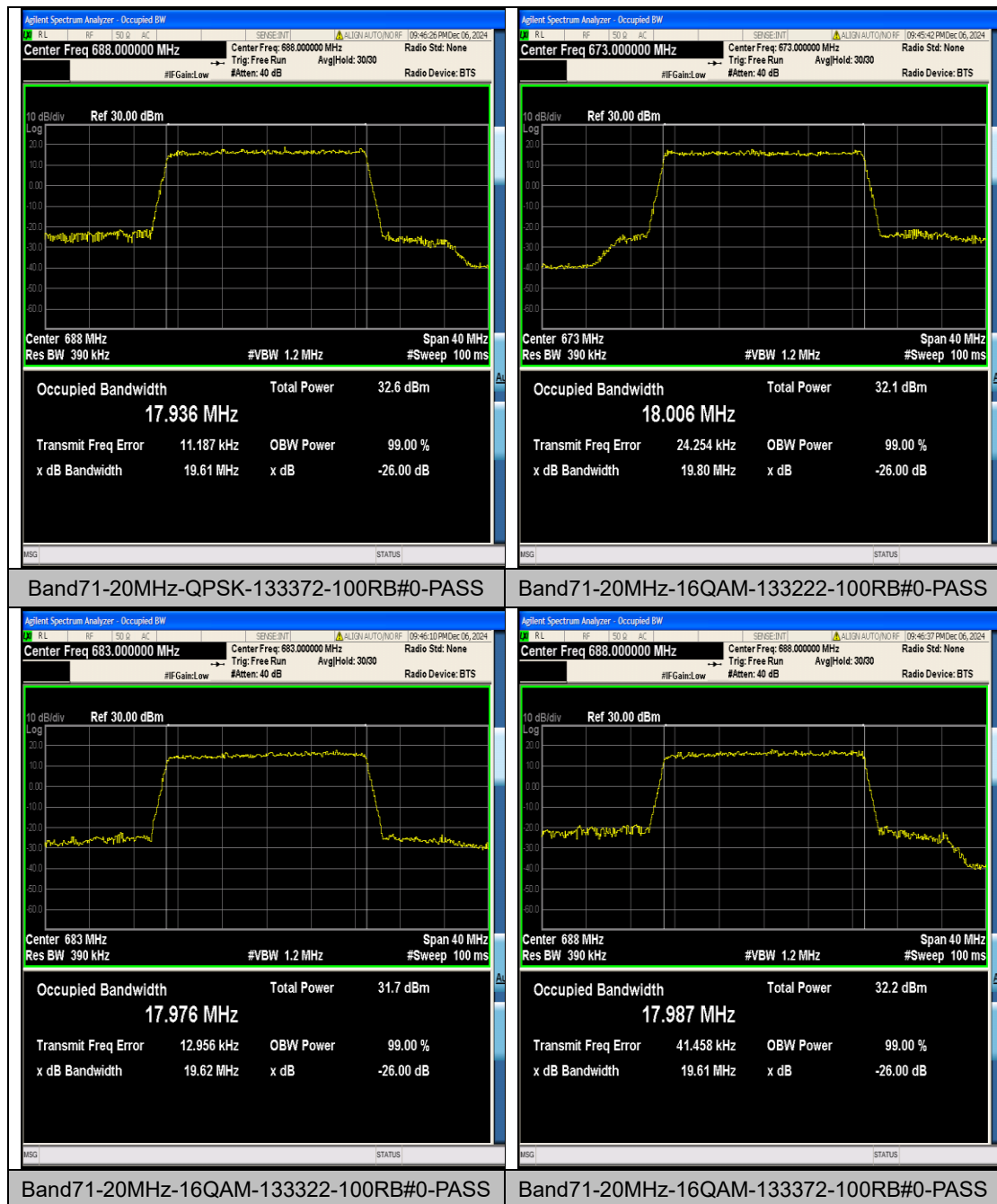










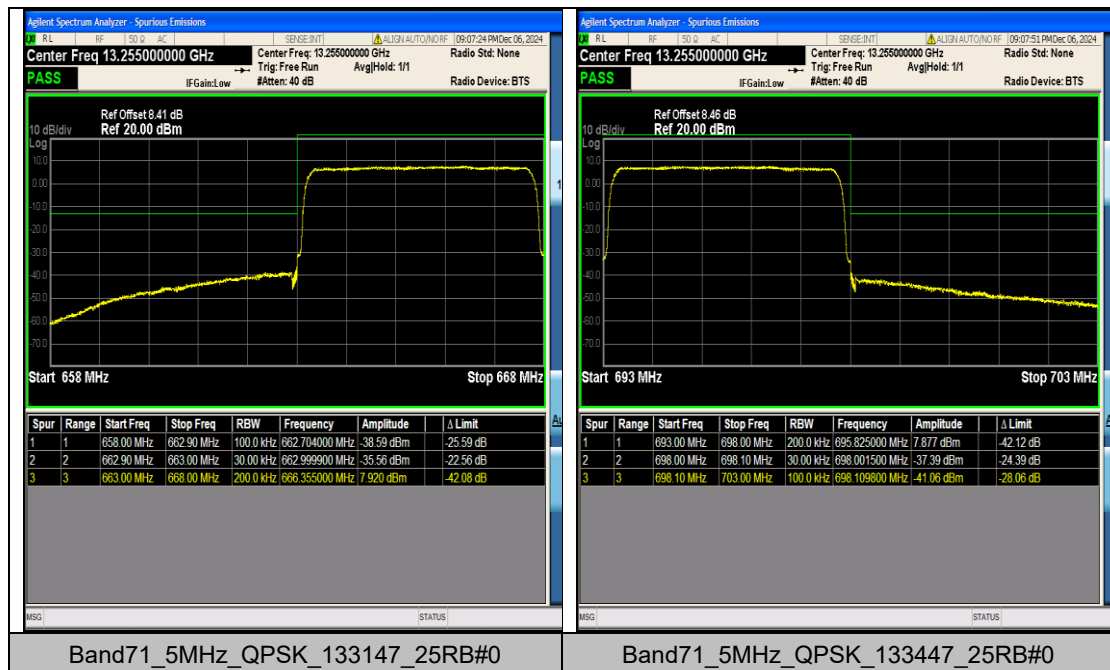


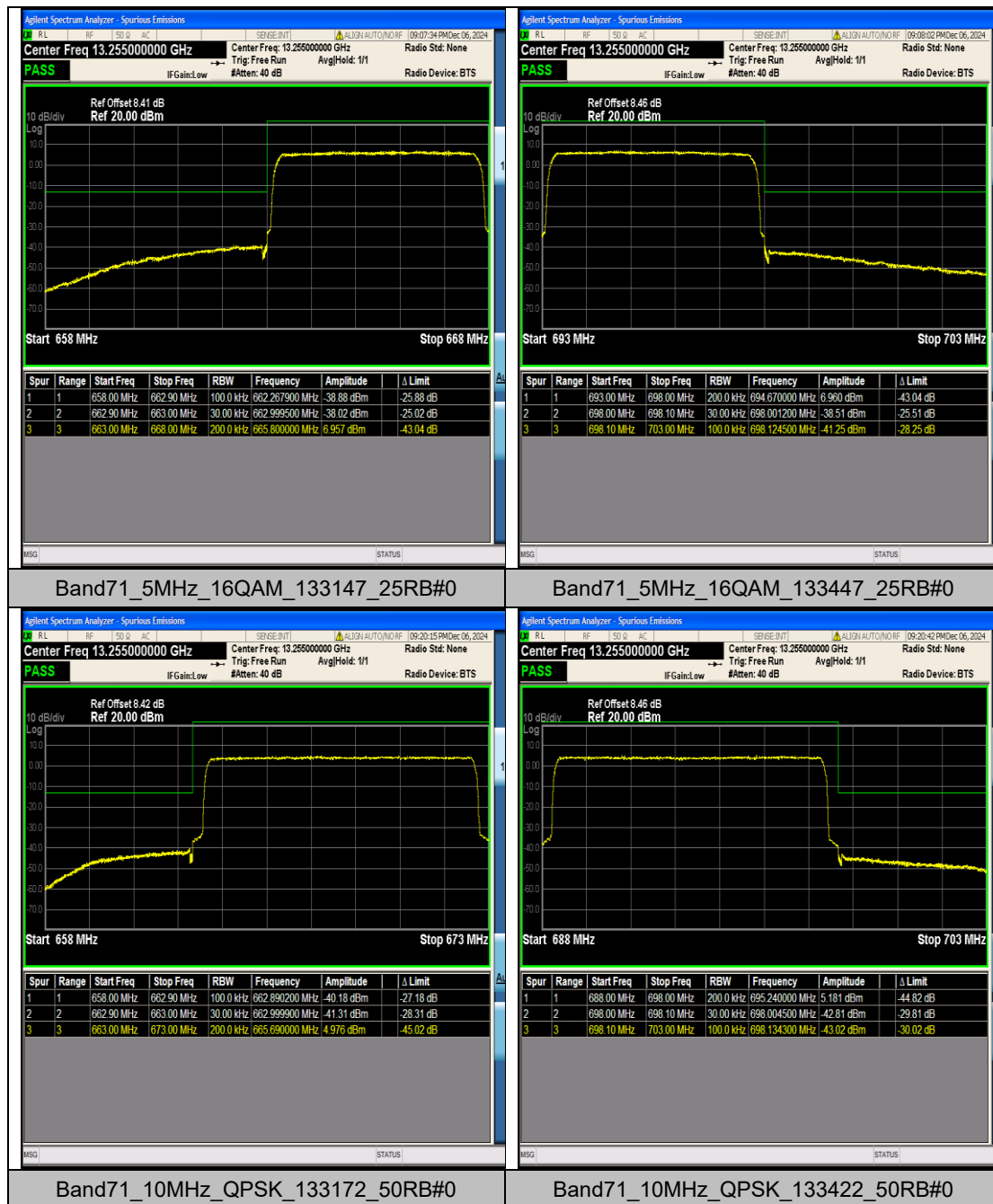
## Appendix D: Band Edge

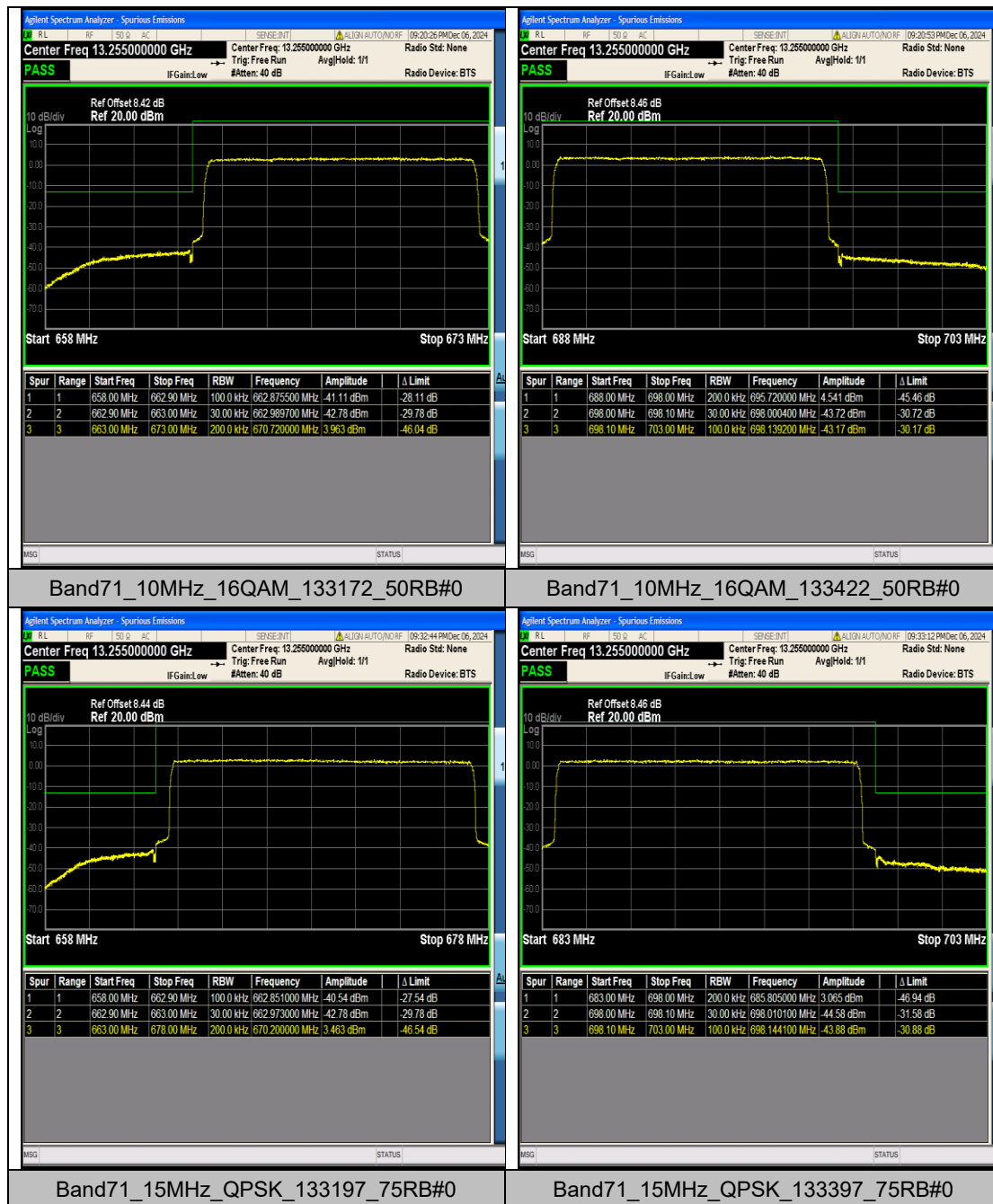
### Test Result

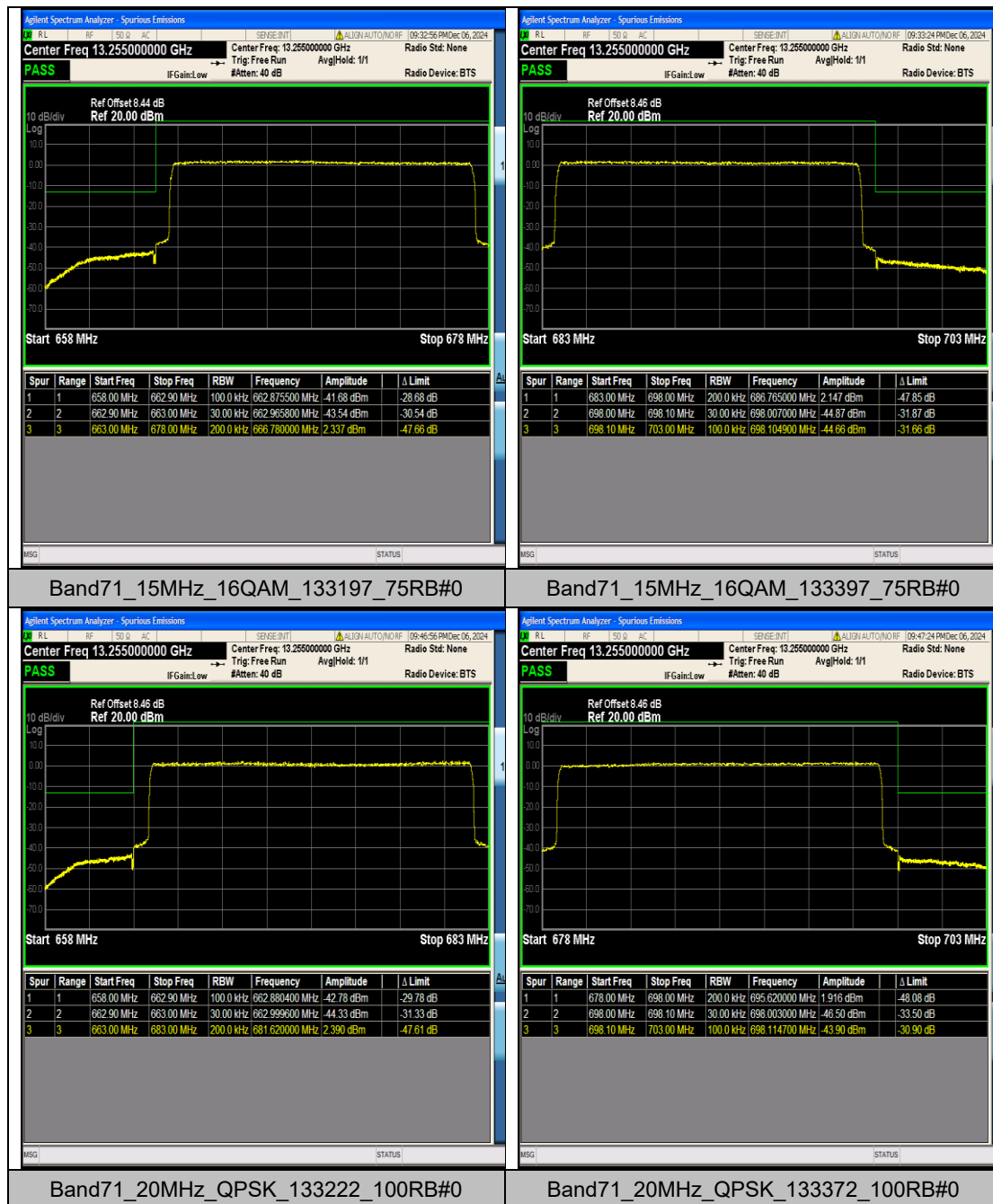
| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result(dBm) | Verdict |
|--------|-----------|------------|---------|------------------|-------------|---------|
| Band71 | 5MHz      | QPSK       | 133147  | 25RB#0           | -35.56      | PASS    |
| Band71 | 5MHz      | QPSK       | 133447  | 25RB#0           | -37.39      | PASS    |
| Band71 | 5MHz      | 16QAM      | 133147  | 25RB#0           | -38.02      | PASS    |
| Band71 | 5MHz      | 16QAM      | 133447  | 25RB#0           | -38.51      | PASS    |
| Band71 | 10MHz     | QPSK       | 133172  | 50RB#0           | -40.18      | PASS    |
| Band71 | 10MHz     | QPSK       | 133422  | 50RB#0           | -42.81      | PASS    |
| Band71 | 10MHz     | 16QAM      | 133172  | 50RB#0           | -41.11      | PASS    |
| Band71 | 10MHz     | 16QAM      | 133422  | 50RB#0           | -43.17      | PASS    |
| Band71 | 15MHz     | QPSK       | 133197  | 75RB#0           | -40.54      | PASS    |
| Band71 | 15MHz     | QPSK       | 133397  | 75RB#0           | -43.88      | PASS    |
| Band71 | 15MHz     | 16QAM      | 133197  | 75RB#0           | -41.68      | PASS    |
| Band71 | 15MHz     | 16QAM      | 133397  | 75RB#0           | -44.66      | PASS    |
| Band71 | 20MHz     | QPSK       | 133222  | 100RB#0          | -42.78      | PASS    |
| Band71 | 20MHz     | QPSK       | 133372  | 100RB#0          | -43.90      | PASS    |
| Band71 | 20MHz     | 16QAM      | 133222  | 100RB#0          | -43.26      | PASS    |
| Band71 | 20MHz     | 16QAM      | 133372  | 100RB#0          | -44.65      | PASS    |

### Test Graphs











## Appendix E: Conducted Spurious Emission

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Frequency Range | Result (dBm) | Verdict |
|--------|-----------|------------|---------|------------------|-----------------|--------------|---------|
| Band71 | 5MHz      | QPSK       | 133147  | 25RB#0           | 0.009~0.15      | -42.26       | PASS    |
| Band71 | 5MHz      | QPSK       | 133147  | 25RB#0           | 0.15~30         | -53.66       | PASS    |
| Band71 | 5MHz      | QPSK       | 133147  | 25RB#0           | 30~1000         | -56.31       | PASS    |
| Band71 | 5MHz      | QPSK       | 133147  | 25RB#0           | 1000~3000       | -46.90       | PASS    |
| Band71 | 5MHz      | QPSK       | 133147  | 25RB#0           | 3000~10000      | -43.80       | PASS    |
| Band71 | 5MHz      | QPSK       | 133297  | 25RB#0           | 0.009~0.15      | -40.56       | PASS    |
| Band71 | 5MHz      | QPSK       | 133297  | 25RB#0           | 0.15~30         | -54.12       | PASS    |
| Band71 | 5MHz      | QPSK       | 133297  | 25RB#0           | 30~1000         | -56.98       | PASS    |
| Band71 | 5MHz      | QPSK       | 133297  | 25RB#0           | 1000~3000       | -46.57       | PASS    |
| Band71 | 5MHz      | QPSK       | 133297  | 25RB#0           | 3000~10000      | -43.57       | PASS    |
| Band71 | 5MHz      | QPSK       | 133447  | 25RB#0           | 0.009~0.15      | -41.02       | PASS    |
| Band71 | 5MHz      | QPSK       | 133447  | 25RB#0           | 0.15~30         | -55.15       | PASS    |
| Band71 | 5MHz      | QPSK       | 133447  | 25RB#0           | 30~1000         | -56.40       | PASS    |
| Band71 | 5MHz      | QPSK       | 133447  | 25RB#0           | 1000~3000       | -46.88       | PASS    |
| Band71 | 5MHz      | QPSK       | 133447  | 25RB#0           | 3000~10000      | -43.84       | PASS    |
| Band71 | 5MHz      | 16QAM      | 133147  | 25RB#0           | 0.009~0.15      | -40.15       | PASS    |
| Band71 | 5MHz      | 16QAM      | 133147  | 25RB#0           | 0.15~30         | -52.75       | PASS    |
| Band71 | 5MHz      | 16QAM      | 133147  | 25RB#0           | 30~1000         | -57.52       | PASS    |
| Band71 | 5MHz      | 16QAM      | 133147  | 25RB#0           | 1000~3000       | -46.93       | PASS    |
| Band71 | 5MHz      | 16QAM      | 133147  | 25RB#0           | 3000~10000      | -43.68       | PASS    |
| Band71 | 5MHz      | 16QAM      | 133297  | 25RB#0           | 0.009~0.15      | -40.51       | PASS    |
| Band71 | 5MHz      | 16QAM      | 133297  | 25RB#0           | 0.15~30         | -53.31       | PASS    |
| Band71 | 5MHz      | 16QAM      | 133297  | 25RB#0           | 30~1000         | -58.27       | PASS    |
| Band71 | 5MHz      | 16QAM      | 133297  | 25RB#0           | 1000~3000       | -46.95       | PASS    |
| Band71 | 5MHz      | 16QAM      | 133297  | 25RB#0           | 3000~10000      | -43.69       | PASS    |
| Band71 | 5MHz      | 16QAM      | 133447  | 25RB#0           | 0.009~0.15      | -41.53       | PASS    |
| Band71 | 5MHz      | 16QAM      | 133447  | 25RB#0           | 0.15~30         | -52.50       | PASS    |
| Band71 | 5MHz      | 16QAM      | 133447  | 25RB#0           | 30~1000         | -58.03       | PASS    |
| Band71 | 5MHz      | 16QAM      | 133447  | 25RB#0           | 1000~3000       | -47.26       | PASS    |
| Band71 | 5MHz      | 16QAM      | 133447  | 25RB#0           | 3000~10000      | -43.57       | PASS    |
| Band71 | 10MHz     | QPSK       | 133172  | 50RB#0           | 0.009~0.15      | -41.34       | PASS    |
| Band71 | 10MHz     | QPSK       | 133172  | 50RB#0           | 0.15~30         | -53.21       | PASS    |
| Band71 | 10MHz     | QPSK       | 133172  | 50RB#0           | 30~1000         | -59.34       | PASS    |
| Band71 | 10MHz     | QPSK       | 133172  | 50RB#0           | 1000~3000       | -47.28       | PASS    |
| Band71 | 10MHz     | QPSK       | 133172  | 50RB#0           | 3000~10000      | -43.64       | PASS    |
| Band71 | 10MHz     | QPSK       | 133297  | 50RB#0           | 0.009~0.15      | -42.18       | PASS    |

|        |       |       |        |        |            |        |      |
|--------|-------|-------|--------|--------|------------|--------|------|
| Band71 | 10MHz | QPSK  | 133297 | 50RB#0 | 0.15~30    | -53.44 | PASS |
| Band71 | 10MHz | QPSK  | 133297 | 50RB#0 | 30~1000    | -60.11 | PASS |
| Band71 | 10MHz | QPSK  | 133297 | 50RB#0 | 1000~3000  | -47.29 | PASS |
| Band71 | 10MHz | QPSK  | 133297 | 50RB#0 | 3000~10000 | -43.74 | PASS |
| Band71 | 10MHz | QPSK  | 133422 | 50RB#0 | 0.009~0.15 | -38.59 | PASS |
| Band71 | 10MHz | QPSK  | 133422 | 50RB#0 | 0.15~30    | -53.91 | PASS |
| Band71 | 10MHz | QPSK  | 133422 | 50RB#0 | 30~1000    | -59.34 | PASS |
| Band71 | 10MHz | QPSK  | 133422 | 50RB#0 | 1000~3000  | -47.05 | PASS |
| Band71 | 10MHz | QPSK  | 133422 | 50RB#0 | 3000~10000 | -43.68 | PASS |
| Band71 | 10MHz | 16QAM | 133172 | 50RB#0 | 0.009~0.15 | -44.83 | PASS |
| Band71 | 10MHz | 16QAM | 133172 | 50RB#0 | 0.15~30    | -53.85 | PASS |
| Band71 | 10MHz | 16QAM | 133172 | 50RB#0 | 30~1000    | -60.52 | PASS |
| Band71 | 10MHz | 16QAM | 133172 | 50RB#0 | 1000~3000  | -46.61 | PASS |
| Band71 | 10MHz | 16QAM | 133172 | 50RB#0 | 3000~10000 | -43.59 | PASS |
| Band71 | 10MHz | 16QAM | 133297 | 50RB#0 | 0.009~0.15 | -40.50 | PASS |
| Band71 | 10MHz | 16QAM | 133297 | 50RB#0 | 0.15~30    | -55.80 | PASS |
| Band71 | 10MHz | 16QAM | 133297 | 50RB#0 | 30~1000    | -61.19 | PASS |
| Band71 | 10MHz | 16QAM | 133297 | 50RB#0 | 1000~3000  | -47.20 | PASS |
| Band71 | 10MHz | 16QAM | 133297 | 50RB#0 | 3000~10000 | -43.77 | PASS |
| Band71 | 10MHz | 16QAM | 133422 | 50RB#0 | 0.009~0.15 | -43.57 | PASS |
| Band71 | 10MHz | 16QAM | 133422 | 50RB#0 | 0.15~30    | -54.21 | PASS |
| Band71 | 10MHz | 16QAM | 133422 | 50RB#0 | 30~1000    | -59.65 | PASS |
| Band71 | 10MHz | 16QAM | 133422 | 50RB#0 | 1000~3000  | -47.34 | PASS |
| Band71 | 10MHz | 16QAM | 133422 | 50RB#0 | 3000~10000 | -43.41 | PASS |
| Band71 | 15MHz | QPSK  | 133197 | 75RB#0 | 0.009~0.15 | -41.07 | PASS |
| Band71 | 15MHz | QPSK  | 133197 | 75RB#0 | 0.15~30    | -53.27 | PASS |
| Band71 | 15MHz | QPSK  | 133197 | 75RB#0 | 30~1000    | -57.57 | PASS |
| Band71 | 15MHz | QPSK  | 133197 | 75RB#0 | 1000~3000  | -47.27 | PASS |
| Band71 | 15MHz | QPSK  | 133197 | 75RB#0 | 3000~10000 | -43.20 | PASS |
| Band71 | 15MHz | QPSK  | 133297 | 75RB#0 | 0.009~0.15 | -41.14 | PASS |
| Band71 | 15MHz | QPSK  | 133297 | 75RB#0 | 0.15~30    | -54.53 | PASS |
| Band71 | 15MHz | QPSK  | 133297 | 75RB#0 | 30~1000    | -61.48 | PASS |
| Band71 | 15MHz | QPSK  | 133297 | 75RB#0 | 1000~3000  | -46.88 | PASS |
| Band71 | 15MHz | QPSK  | 133297 | 75RB#0 | 3000~10000 | -43.80 | PASS |
| Band71 | 15MHz | QPSK  | 133397 | 75RB#0 | 0.009~0.15 | -39.12 | PASS |
| Band71 | 15MHz | QPSK  | 133397 | 75RB#0 | 0.15~30    | -53.60 | PASS |
| Band71 | 15MHz | QPSK  | 133397 | 75RB#0 | 30~1000    | -61.76 | PASS |
| Band71 | 15MHz | QPSK  | 133397 | 75RB#0 | 1000~3000  | -47.35 | PASS |
| Band71 | 15MHz | QPSK  | 133397 | 75RB#0 | 3000~10000 | -43.66 | PASS |
| Band71 | 15MHz | 16QAM | 133197 | 75RB#0 | 0.009~0.15 | -38.14 | PASS |
| Band71 | 15MHz | 16QAM | 133197 | 75RB#0 | 0.15~30    | -52.39 | PASS |
| Band71 | 15MHz | 16QAM | 133197 | 75RB#0 | 30~1000    | -59.23 | PASS |
| Band71 | 15MHz | 16QAM | 133197 | 75RB#0 | 1000~3000  | -46.76 | PASS |

|        |       |       |        |         |            |        |      |
|--------|-------|-------|--------|---------|------------|--------|------|
| Band71 | 15MHz | 16QAM | 133197 | 75RB#0  | 3000~10000 | -43.70 | PASS |
| Band71 | 15MHz | 16QAM | 133297 | 75RB#0  | 0.009~0.15 | -43.70 | PASS |
| Band71 | 15MHz | 16QAM | 133297 | 75RB#0  | 0.15~30    | -52.92 | PASS |
| Band71 | 15MHz | 16QAM | 133297 | 75RB#0  | 30~1000    | -60.96 | PASS |
| Band71 | 15MHz | 16QAM | 133297 | 75RB#0  | 1000~3000  | -47.32 | PASS |
| Band71 | 15MHz | 16QAM | 133297 | 75RB#0  | 3000~10000 | -43.43 | PASS |
| Band71 | 15MHz | 16QAM | 133397 | 75RB#0  | 0.009~0.15 | -40.86 | PASS |
| Band71 | 15MHz | 16QAM | 133397 | 75RB#0  | 0.15~30    | -54.22 | PASS |
| Band71 | 15MHz | 16QAM | 133397 | 75RB#0  | 30~1000    | -59.96 | PASS |
| Band71 | 15MHz | 16QAM | 133397 | 75RB#0  | 1000~3000  | -47.27 | PASS |
| Band71 | 15MHz | 16QAM | 133397 | 75RB#0  | 3000~10000 | -43.54 | PASS |
| Band71 | 20MHz | QPSK  | 133222 | 100RB#0 | 0.009~0.15 | -40.99 | PASS |
| Band71 | 20MHz | QPSK  | 133222 | 100RB#0 | 0.15~30    | -53.28 | PASS |
| Band71 | 20MHz | QPSK  | 133222 | 100RB#0 | 30~1000    | -61.67 | PASS |
| Band71 | 20MHz | QPSK  | 133222 | 100RB#0 | 1000~3000  | -46.88 | PASS |
| Band71 | 20MHz | QPSK  | 133222 | 100RB#0 | 3000~10000 | -43.29 | PASS |
| Band71 | 20MHz | QPSK  | 133322 | 100RB#0 | 0.009~0.15 | -43.47 | PASS |
| Band71 | 20MHz | QPSK  | 133322 | 100RB#0 | 0.15~30    | -54.60 | PASS |
| Band71 | 20MHz | QPSK  | 133322 | 100RB#0 | 30~1000    | -61.88 | PASS |
| Band71 | 20MHz | QPSK  | 133322 | 100RB#0 | 1000~3000  | -47.02 | PASS |
| Band71 | 20MHz | QPSK  | 133322 | 100RB#0 | 3000~10000 | -43.96 | PASS |
| Band71 | 20MHz | QPSK  | 133372 | 100RB#0 | 0.009~0.15 | -40.81 | PASS |
| Band71 | 20MHz | QPSK  | 133372 | 100RB#0 | 0.15~30    | -54.33 | PASS |
| Band71 | 20MHz | QPSK  | 133372 | 100RB#0 | 30~1000    | -61.72 | PASS |
| Band71 | 20MHz | QPSK  | 133372 | 100RB#0 | 1000~3000  | -46.94 | PASS |
| Band71 | 20MHz | QPSK  | 133372 | 100RB#0 | 3000~10000 | -43.64 | PASS |
| Band71 | 20MHz | 16QAM | 133222 | 100RB#0 | 0.009~0.15 | -41.74 | PASS |
| Band71 | 20MHz | 16QAM | 133222 | 100RB#0 | 0.15~30    | -54.25 | PASS |
| Band71 | 20MHz | 16QAM | 133222 | 100RB#0 | 30~1000    | -61.64 | PASS |
| Band71 | 20MHz | 16QAM | 133222 | 100RB#0 | 1000~3000  | -46.95 | PASS |
| Band71 | 20MHz | 16QAM | 133222 | 100RB#0 | 3000~10000 | -43.56 | PASS |
| Band71 | 20MHz | 16QAM | 133322 | 100RB#0 | 0.009~0.15 | -40.48 | PASS |
| Band71 | 20MHz | 16QAM | 133322 | 100RB#0 | 0.15~30    | -54.79 | PASS |
| Band71 | 20MHz | 16QAM | 133322 | 100RB#0 | 30~1000    | -61.97 | PASS |
| Band71 | 20MHz | 16QAM | 133322 | 100RB#0 | 1000~3000  | -47.12 | PASS |
| Band71 | 20MHz | 16QAM | 133322 | 100RB#0 | 3000~10000 | -43.23 | PASS |
| Band71 | 20MHz | 16QAM | 133372 | 100RB#0 | 0.009~0.15 | -43.37 | PASS |
| Band71 | 20MHz | 16QAM | 133372 | 100RB#0 | 0.15~30    | -51.15 | PASS |
| Band71 | 20MHz | 16QAM | 133372 | 100RB#0 | 30~1000    | -61.81 | PASS |
| Band71 | 20MHz | 16QAM | 133372 | 100RB#0 | 1000~3000  | -47.28 | PASS |
| Band71 | 20MHz | 16QAM | 133372 | 100RB#0 | 3000~10000 | -43.68 | PASS |

## Test Graphs

