

# Appendix-C LTE Band 7

## Effective (Isotropic) Radiated Power Output Data

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result (dBm) | EIRP (dBm) | Limit (dBm) | Verdict |
|-------|-----------|------------|---------|------------------|--------------|------------|-------------|---------|
| Band7 | 5MHz      | QPSK       | 20775   | 1RB#0            | 23.08        | 24.6       | 33.01       | PASS    |
| Band7 | 5MHz      | QPSK       | 20775   | 1RB#12           | 23.11        | 24.63      | 33.01       | PASS    |
| Band7 | 5MHz      | QPSK       | 20775   | 1RB#24           | 23.11        | 24.63      | 33.01       | PASS    |
| Band7 | 5MHz      | QPSK       | 20775   | 25RB#0           | 22.30        | 23.82      | 33.01       | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 1RB#0            | 23.18        | 24.7       | 33.01       | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 1RB#12           | 23.39        | 24.91      | 33.01       | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 1RB#24           | 23.42        | 24.94      | 33.01       | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 25RB#0           | 22.35        | 23.87      | 33.01       | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 1RB#0            | 23.12        | 24.64      | 33.01       | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 1RB#12           | 23.17        | 24.69      | 33.01       | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 1RB#24           | 22.97        | 24.49      | 33.01       | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 25RB#0           | 22.17        | 23.69      | 33.01       | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 1RB#0            | 21.72        | 23.24      | 33.01       | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 1RB#12           | 21.96        | 23.48      | 33.01       | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 1RB#24           | 21.91        | 23.43      | 33.01       | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 25RB#0           | 21.27        | 22.79      | 33.01       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21100   | 1RB#0            | 22.07        | 23.59      | 33.01       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21100   | 1RB#12           | 22.23        | 23.75      | 33.01       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21100   | 1RB#24           | 22.02        | 23.54      | 33.01       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21100   | 25RB#0           | 21.33        | 22.85      | 33.01       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21425   | 1RB#0            | 22.24        | 23.76      | 33.01       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21425   | 1RB#12           | 22.25        | 23.77      | 33.01       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21425   | 1RB#24           | 22.15        | 23.67      | 33.01       | PASS    |
| Band7 | 5MHz      | 16QAM      | 21425   | 25RB#0           | 21.12        | 22.64      | 33.01       | PASS    |
| Band7 | 10MHz     | QPSK       | 20800   | 1RB#0            | 22.92        | 24.44      | 33.01       | PASS    |
| Band7 | 10MHz     | QPSK       | 20800   | 1RB#24           | 23.34        | 24.86      | 33.01       | PASS    |
| Band7 | 10MHz     | QPSK       | 20800   | 1RB#49           | 22.81        | 24.33      | 33.01       | PASS    |
| Band7 | 10MHz     | QPSK       | 20800   | 50RB#0           | 22.19        | 23.71      | 33.01       | PASS    |
| Band7 | 10MHz     | QPSK       | 21100   | 1RB#0            | 23.07        | 24.59      | 33.01       | PASS    |
| Band7 | 10MHz     | QPSK       | 21100   | 1RB#24           | 23.45        | 24.97      | 33.01       | PASS    |
| Band7 | 10MHz     | QPSK       | 21100   | 1RB#49           | 23.36        | 24.88      | 33.01       | PASS    |
| Band7 | 10MHz     | QPSK       | 21100   | 50RB#0           | 22.20        | 23.72      | 33.01       | PASS    |
| Band7 | 10MHz     | QPSK       | 21400   | 1RB#0            | 23.19        | 24.71      | 33.01       | PASS    |
| Band7 | 10MHz     | QPSK       | 21400   | 1RB#24           | 23.52        | 25.04      | 33.01       | PASS    |
| Band7 | 10MHz     | QPSK       | 21400   | 1RB#49           | 23.00        | 24.52      | 33.01       | PASS    |
| Band7 | 10MHz     | QPSK       | 21400   | 50RB#0           | 22.29        | 23.81      | 33.01       | PASS    |
| Band7 | 10MHz     | 16QAM      | 20800   | 1RB#0            | 22.05        | 23.57      | 33.01       | PASS    |

|       |       |       |       |         |       |       |       |      |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band7 | 10MHz | 16QAM | 20800 | 1RB#24  | 22.62 | 24.14 | 33.01 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 1RB#49  | 22.02 | 23.54 | 33.01 | PASS |
| Band7 | 10MHz | 16QAM | 20800 | 50RB#0  | 21.16 | 22.68 | 33.01 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 1RB#0   | 22.04 | 23.56 | 33.01 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 1RB#24  | 22.74 | 24.26 | 33.01 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 1RB#49  | 22.00 | 23.52 | 33.01 | PASS |
| Band7 | 10MHz | 16QAM | 21100 | 50RB#0  | 21.17 | 22.69 | 33.01 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 1RB#0   | 22.32 | 23.84 | 33.01 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 1RB#24  | 22.48 | 24    | 33.01 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 1RB#49  | 22.21 | 23.73 | 33.01 | PASS |
| Band7 | 10MHz | 16QAM | 21400 | 50RB#0  | 21.32 | 22.84 | 33.01 | PASS |
| Band7 | 15MHz | QPSK  | 20825 | 1RB#0   | 22.92 | 24.44 | 33.01 | PASS |
| Band7 | 15MHz | QPSK  | 20825 | 1RB#38  | 23.18 | 24.7  | 33.01 | PASS |
| Band7 | 15MHz | QPSK  | 20825 | 1RB#74  | 22.81 | 24.33 | 33.01 | PASS |
| Band7 | 15MHz | QPSK  | 20825 | 75RB#0  | 22.16 | 23.68 | 33.01 | PASS |
| Band7 | 15MHz | QPSK  | 21100 | 1RB#0   | 22.79 | 24.31 | 33.01 | PASS |
| Band7 | 15MHz | QPSK  | 21100 | 1RB#38  | 23.29 | 24.81 | 33.01 | PASS |
| Band7 | 15MHz | QPSK  | 21100 | 1RB#74  | 23.04 | 24.56 | 33.01 | PASS |
| Band7 | 15MHz | QPSK  | 21100 | 75RB#0  | 22.25 | 23.77 | 33.01 | PASS |
| Band7 | 15MHz | QPSK  | 21375 | 1RB#0   | 22.94 | 24.46 | 33.01 | PASS |
| Band7 | 15MHz | QPSK  | 21375 | 1RB#38  | 23.01 | 24.53 | 33.01 | PASS |
| Band7 | 15MHz | QPSK  | 21375 | 1RB#74  | 23.04 | 24.56 | 33.01 | PASS |
| Band7 | 15MHz | QPSK  | 21375 | 75RB#0  | 22.31 | 23.83 | 33.01 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 1RB#0   | 22.15 | 23.67 | 33.01 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 1RB#38  | 22.17 | 23.69 | 33.01 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 1RB#74  | 22.01 | 23.53 | 33.01 | PASS |
| Band7 | 15MHz | 16QAM | 20825 | 75RB#0  | 21.13 | 22.65 | 33.01 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 1RB#0   | 21.96 | 23.48 | 33.01 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 1RB#38  | 22.60 | 24.12 | 33.01 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 1RB#74  | 22.21 | 23.73 | 33.01 | PASS |
| Band7 | 15MHz | 16QAM | 21100 | 75RB#0  | 21.11 | 22.63 | 33.01 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 1RB#0   | 22.06 | 23.58 | 33.01 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 1RB#38  | 22.17 | 23.69 | 33.01 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 1RB#74  | 22.22 | 23.74 | 33.01 | PASS |
| Band7 | 15MHz | 16QAM | 21375 | 75RB#0  | 21.24 | 22.76 | 33.01 | PASS |
| Band7 | 20MHz | QPSK  | 20850 | 1RB#0   | 22.94 | 24.46 | 33.01 | PASS |
| Band7 | 20MHz | QPSK  | 20850 | 1RB#49  | 23.43 | 24.95 | 33.01 | PASS |
| Band7 | 20MHz | QPSK  | 20850 | 1RB#99  | 22.88 | 24.4  | 33.01 | PASS |
| Band7 | 20MHz | QPSK  | 20850 | 100RB#0 | 22.22 | 23.74 | 33.01 | PASS |
| Band7 | 20MHz | QPSK  | 21100 | 1RB#0   | 22.78 | 24.3  | 33.01 | PASS |
| Band7 | 20MHz | QPSK  | 21100 | 1RB#49  | 23.62 | 25.14 | 33.01 | PASS |
| Band7 | 20MHz | QPSK  | 21100 | 1RB#99  | 23.13 | 24.65 | 33.01 | PASS |
| Band7 | 20MHz | QPSK  | 21100 | 100RB#0 | 22.14 | 23.66 | 33.01 | PASS |
| Band7 | 20MHz | QPSK  | 21350 | 1RB#0   | 23.17 | 24.69 | 33.01 | PASS |
| Band7 | 20MHz | QPSK  | 21350 | 1RB#49  | 23.49 | 25.01 | 33.01 | PASS |

|       |       |       |       |         |       |       |       |      |
|-------|-------|-------|-------|---------|-------|-------|-------|------|
| Band7 | 20MHz | QPSK  | 21350 | 1RB#99  | 23.06 | 24.58 | 33.01 | PASS |
| Band7 | 20MHz | QPSK  | 21350 | 100RB#0 | 22.35 | 23.87 | 33.01 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 1RB#0   | 21.95 | 23.47 | 33.01 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 1RB#49  | 22.90 | 24.42 | 33.01 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 1RB#99  | 22.04 | 23.56 | 33.01 | PASS |
| Band7 | 20MHz | 16QAM | 20850 | 100RB#0 | 21.02 | 22.54 | 33.01 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 1RB#0   | 22.03 | 23.55 | 33.01 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 1RB#49  | 23.03 | 24.55 | 33.01 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 1RB#99  | 22.17 | 23.69 | 33.01 | PASS |
| Band7 | 20MHz | 16QAM | 21100 | 100RB#0 | 21.12 | 22.64 | 33.01 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 1RB#0   | 22.28 | 23.8  | 33.01 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 1RB#49  | 22.87 | 24.39 | 33.01 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 1RB#99  | 22.56 | 24.08 | 33.01 | PASS |
| Band7 | 20MHz | 16QAM | 21350 | 100RB#0 | 21.27 | 22.79 | 33.01 | PASS |

## Peak-to-Average Ratio(CCDF)

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Result (dB) | Limit (dB) | Verdict |
|-------|-----------|------------|---------|------------------|-------------|------------|---------|
| Band7 | 20MHz     | QPSK       | 20850   | 100RB#0          | 4.85        | 13         | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0          | 5.18        | 13         | PASS    |
| Band7 | 20MHz     | QPSK       | 21350   | 100RB#0          | 5.14        | 13         | PASS    |
| Band7 | 20MHz     | 16QAM      | 20850   | 100RB#0          | 5.67        | 13         | PASS    |
| Band7 | 20MHz     | 16QAM      | 21100   | 100RB#0          | 6.04        | 13         | PASS    |
| Band7 | 20MHz     | 16QAM      | 21350   | 100RB#0          | 6.01        | 13         | PASS    |

## Test Graphs

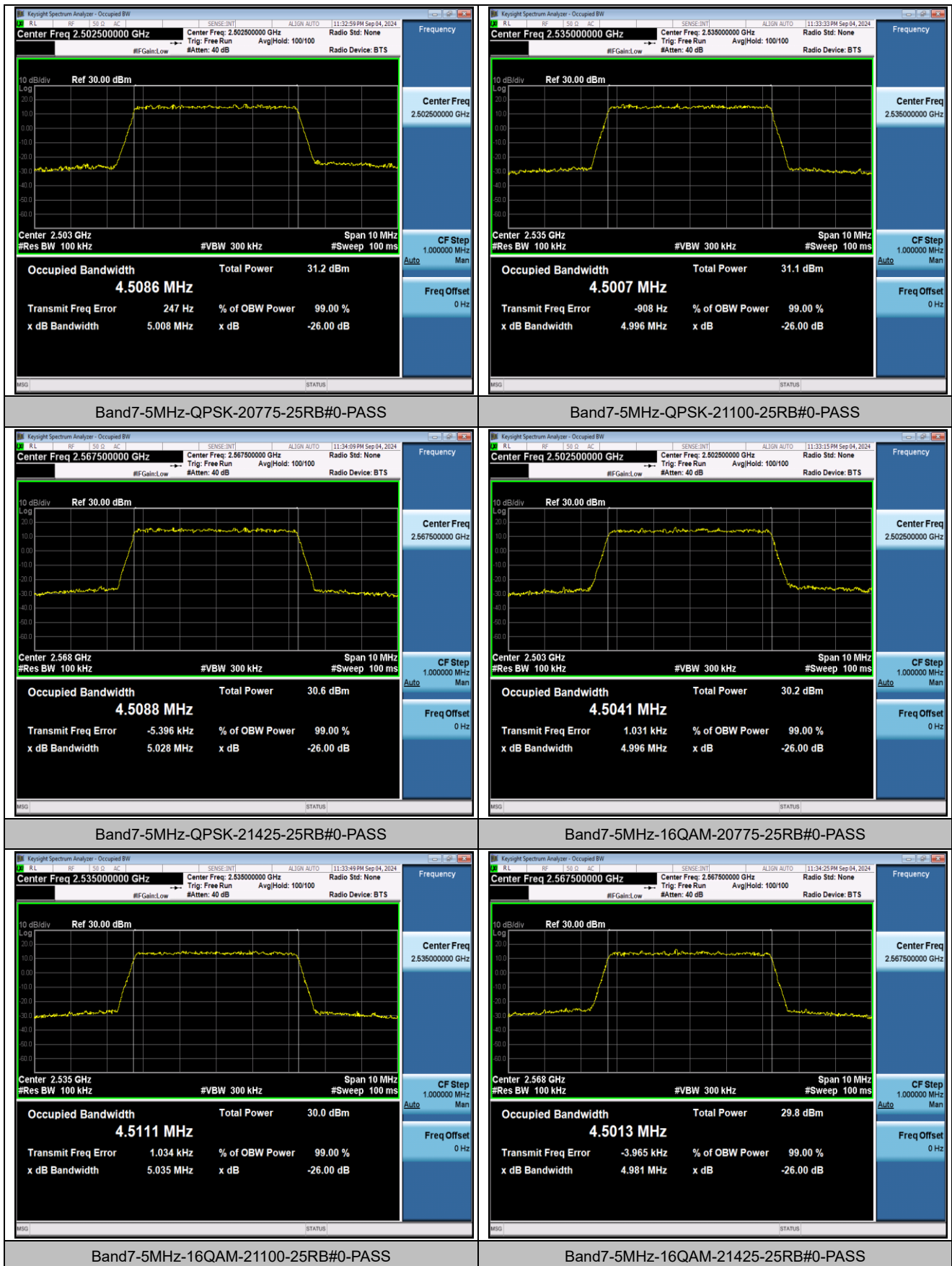


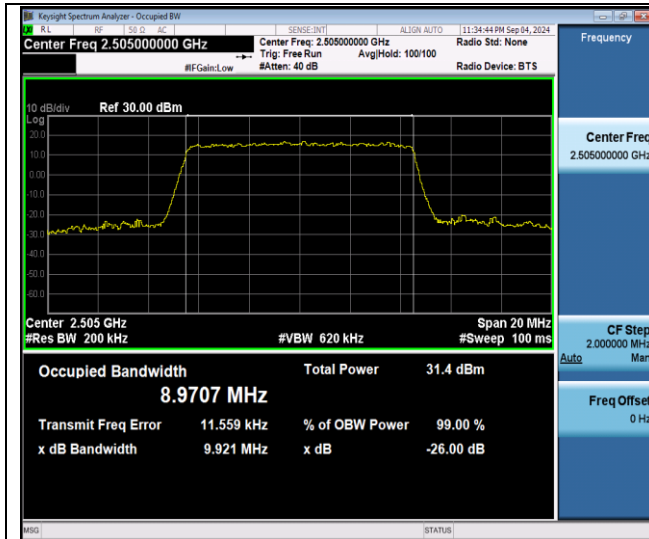
## 26dB Bandwidth and Occupied Bandwidth

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | OBW (MHz) | 26dB EBW (MHz) | Verdict |
|-------|-----------|------------|---------|------------------|-----------|----------------|---------|
| Band7 | 5MHz      | QPSK       | 20775   | 25RB#0           | 4.5086    | 5.008          | PASS    |
| Band7 | 5MHz      | QPSK       | 21100   | 25RB#0           | 4.5007    | 4.996          | PASS    |
| Band7 | 5MHz      | QPSK       | 21425   | 25RB#0           | 4.5088    | 5.028          | PASS    |
| Band7 | 5MHz      | 16QAM      | 20775   | 25RB#0           | 4.5041    | 4.996          | PASS    |
| Band7 | 5MHz      | 16QAM      | 21100   | 25RB#0           | 4.5111    | 5.035          | PASS    |
| Band7 | 5MHz      | 16QAM      | 21425   | 25RB#0           | 4.5013    | 4.981          | PASS    |
| Band7 | 10MHz     | QPSK       | 20800   | 50RB#0           | 8.9707    | 9.921          | PASS    |
| Band7 | 10MHz     | QPSK       | 21100   | 50RB#0           | 8.9739    | 9.901          | PASS    |
| Band7 | 10MHz     | QPSK       | 21400   | 50RB#0           | 8.9838    | 9.923          | PASS    |
| Band7 | 10MHz     | 16QAM      | 20800   | 50RB#0           | 8.9728    | 9.859          | PASS    |
| Band7 | 10MHz     | 16QAM      | 21100   | 50RB#0           | 8.9664    | 9.915          | PASS    |
| Band7 | 10MHz     | 16QAM      | 21400   | 50RB#0           | 8.9743    | 9.880          | PASS    |
| Band7 | 15MHz     | QPSK       | 20825   | 75RB#0           | 13.470    | 14.84          | PASS    |
| Band7 | 15MHz     | QPSK       | 21100   | 75RB#0           | 13.461    | 14.86          | PASS    |
| Band7 | 15MHz     | QPSK       | 21375   | 75RB#0           | 13.478    | 14.87          | PASS    |
| Band7 | 15MHz     | 16QAM      | 20825   | 75RB#0           | 13.457    | 14.72          | PASS    |
| Band7 | 15MHz     | 16QAM      | 21100   | 75RB#0           | 13.464    | 14.81          | PASS    |
| Band7 | 15MHz     | 16QAM      | 21375   | 75RB#0           | 13.465    | 14.70          | PASS    |
| Band7 | 20MHz     | QPSK       | 20850   | 100RB#0          | 17.889    | 19.46          | PASS    |
| Band7 | 20MHz     | QPSK       | 21100   | 100RB#0          | 17.915    | 19.47          | PASS    |
| Band7 | 20MHz     | QPSK       | 21350   | 100RB#0          | 17.922    | 19.53          | PASS    |
| Band7 | 20MHz     | 16QAM      | 20850   | 100RB#0          | 17.947    | 19.54          | PASS    |
| Band7 | 20MHz     | 16QAM      | 21100   | 100RB#0          | 17.964    | 19.44          | PASS    |
| Band7 | 20MHz     | 16QAM      | 21350   | 100RB#0          | 17.967    | 19.50          | PASS    |

## Test Graphs

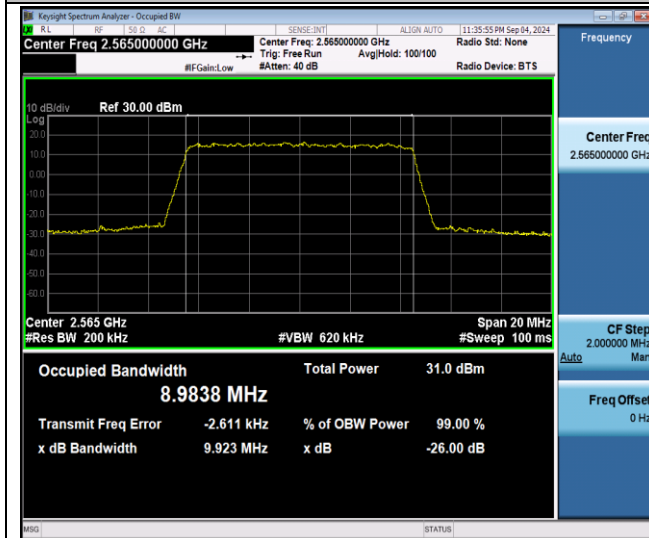




Band7-10MHz-QPSK-20800-50RB#0-PASS



Band7-10MHz-QPSK-21100-50RB#0-PASS



Band7-10MHz-QPSK-21400-50RB#0-PASS



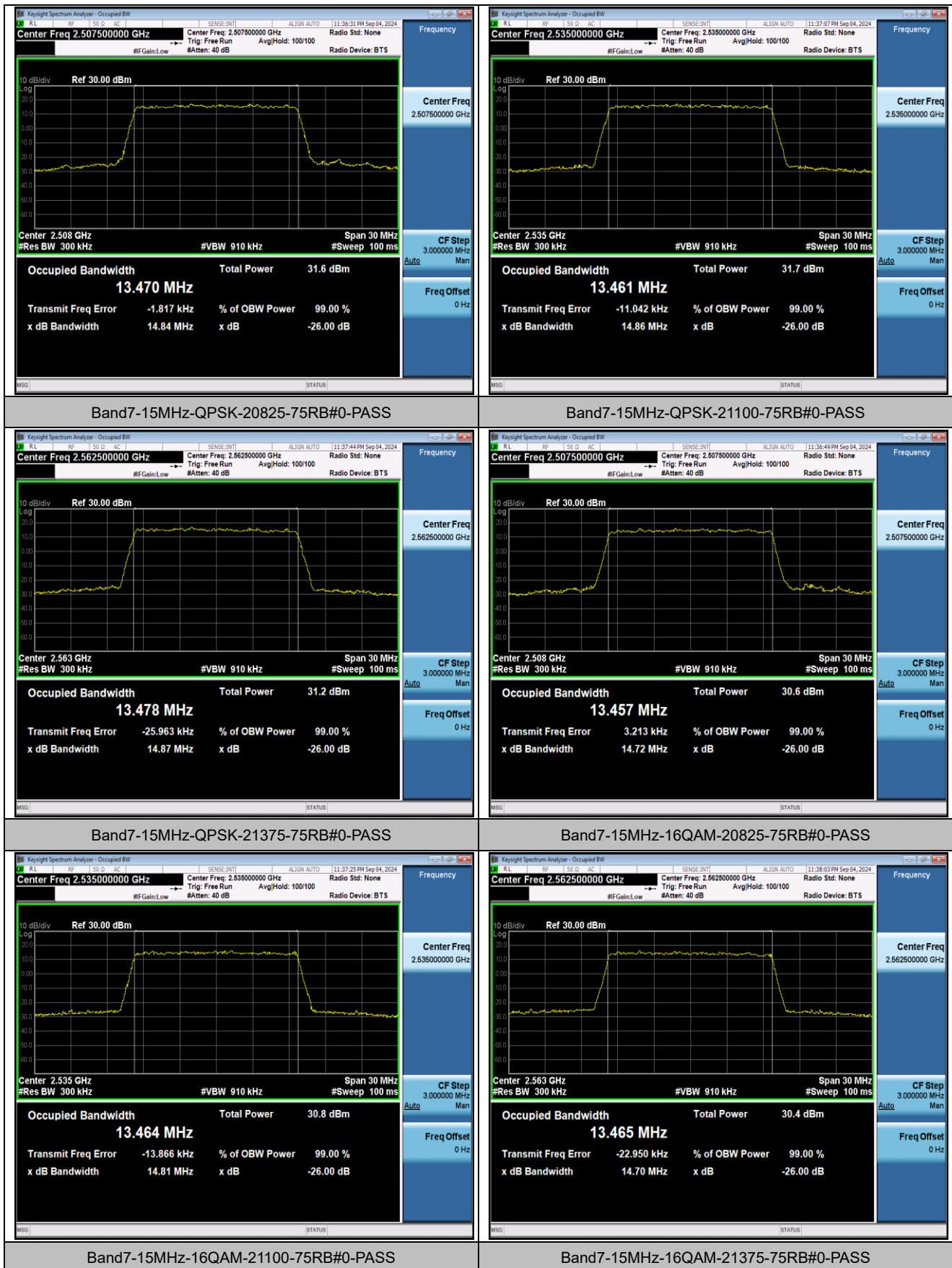
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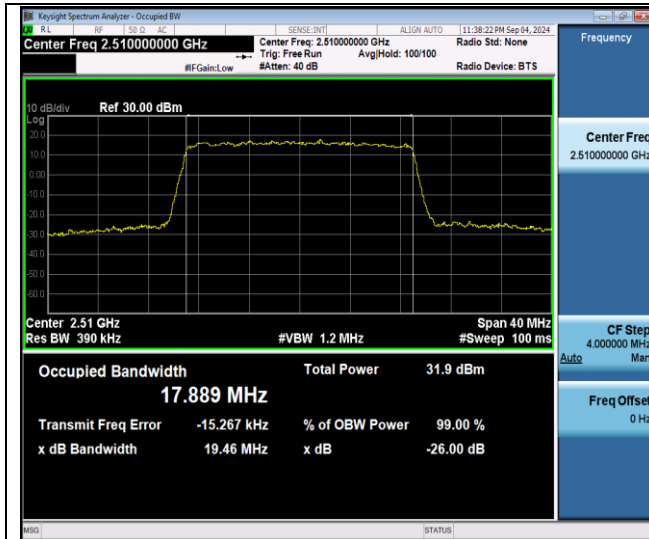


Band7-10MHz-16QAM-21100-50RB#0-PASS

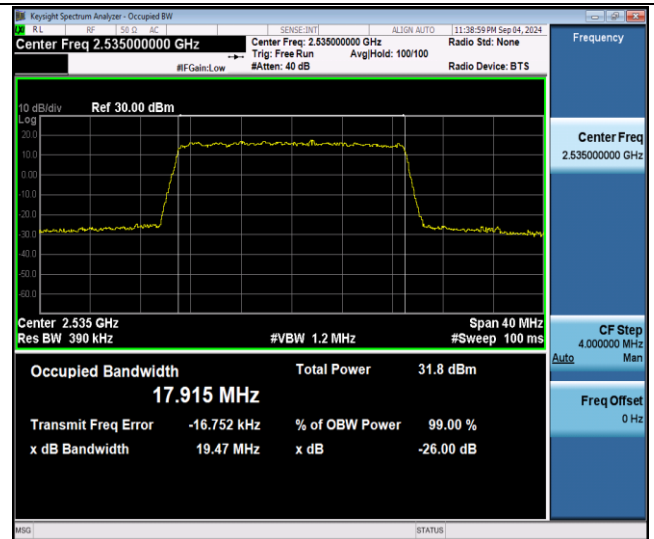


Band7-10MHz-16QAM-21400-50RB#0-PASS

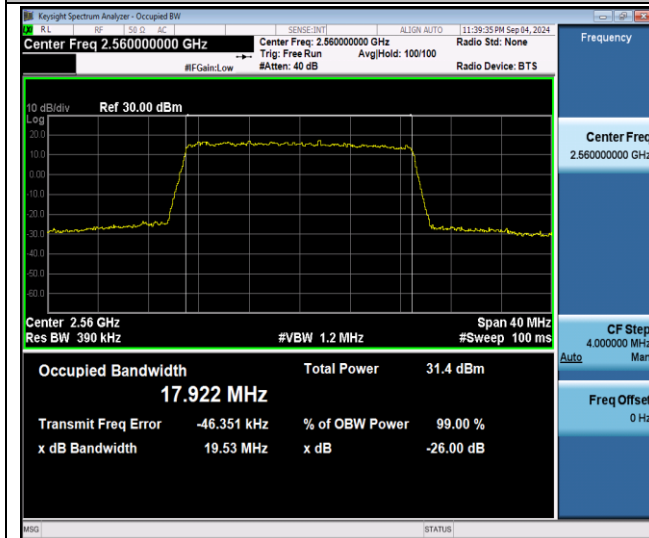




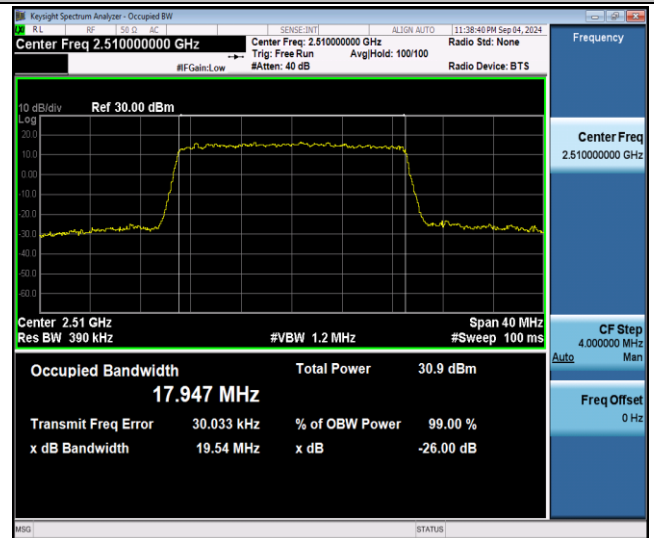
Band7-20MHz-QPSK-20850-100RB#0-PASS



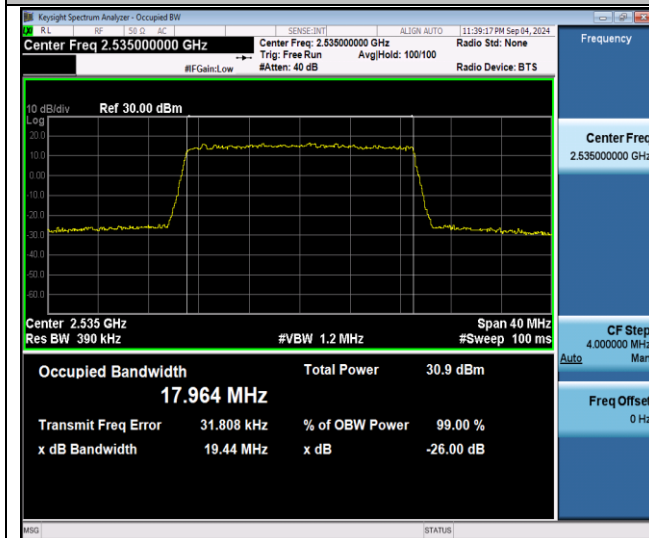
Band7-20MHz-QPSK-21100-100RB#0-PASS



Band7-20MHz-QPSK-21350-100RB#0-PASS



Band7-20MHz-16QAM-20850-100RB#0-PASS



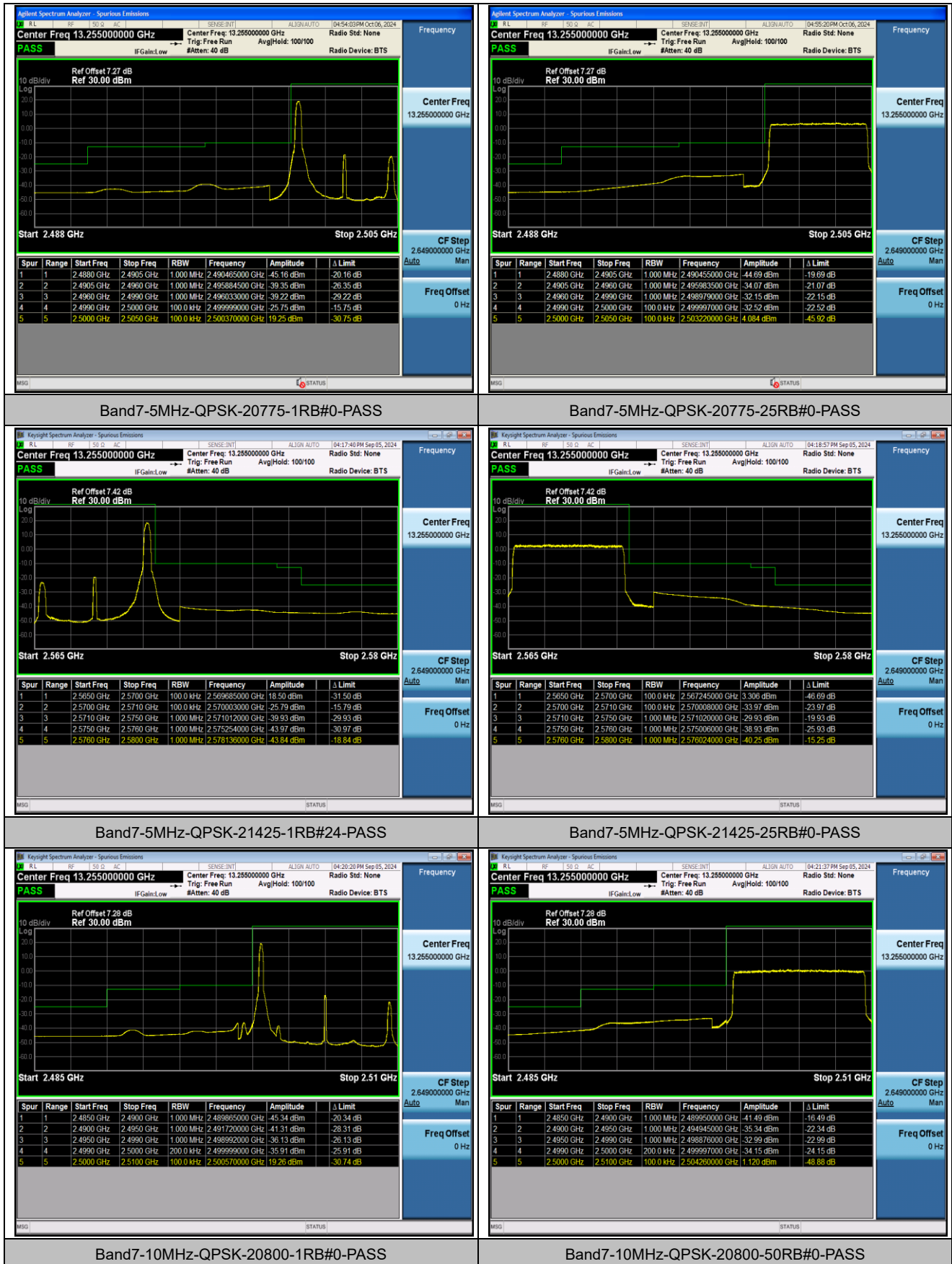
Band7-20MHz-16QAM-21100-100RB#0-PASS

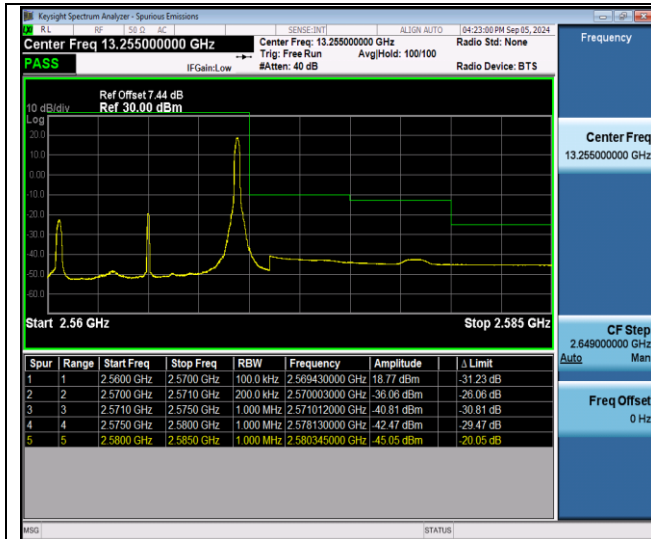


Band7-20MHz-16QAM-21350-100RB#0-PASS

## Band Edge

## Test Graphs

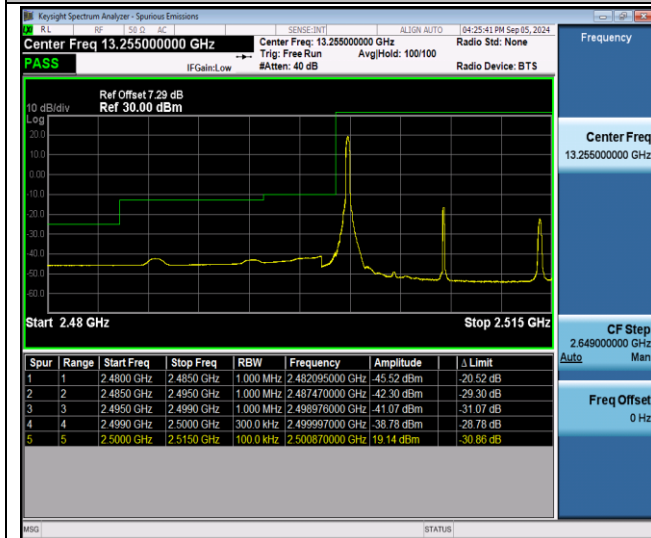




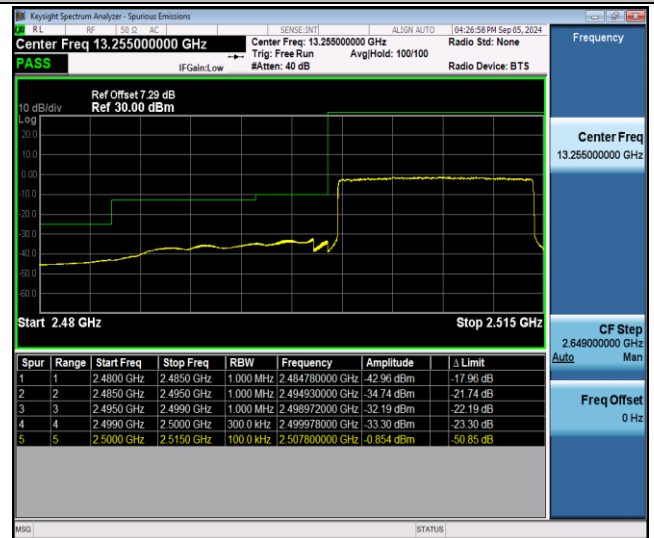
Band7-10MHz-QPSK-21400-1RB#49-PASS



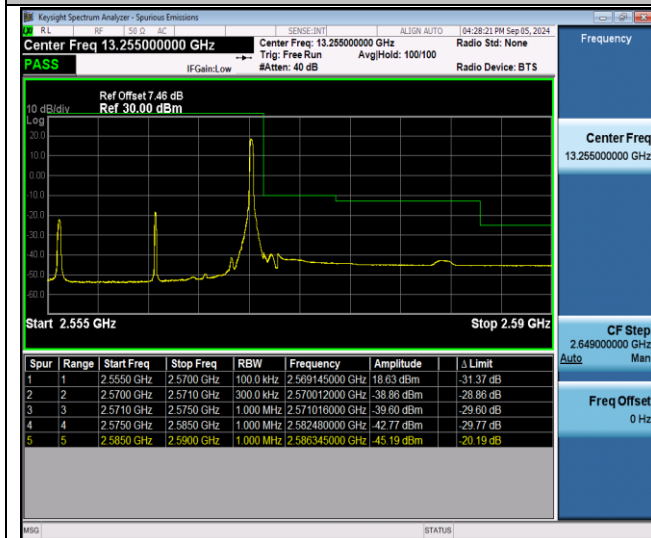
Band7-10MHz-QPSK-21400-50RB#0-PASS



Band7-15MHz-QPSK-20825-1RB#0-PASS



Band7-15MHz-QPSK-20825-75RB#0-PASS



Band7-15MHz-QPSK-21375-1RB#74-PASS



Band7-15MHz-QPSK-21375-75RB#0-PASS