

# Appendix-A LTE Band 26(814-824)

## Transmitter Conducted Output Power

### Test Result

| Band            | Bandwidth | Modulation | Channel | RB Configuration | Result (dBm) | Limit (dBm) | Verdict |
|-----------------|-----------|------------|---------|------------------|--------------|-------------|---------|
| Band26(814-824) | 1.4MHz    | QPSK       | 26697   | 1RB#0            | 23.23        | 50          | PASS    |
| Band26(814-824) | 1.4MHz    | QPSK       | 26697   | 1RB#2            | 23.05        | 50          | PASS    |
| Band26(814-824) | 1.4MHz    | QPSK       | 26697   | 1RB#5            | 23.29        | 50          | PASS    |
| Band26(814-824) | 1.4MHz    | QPSK       | 26697   | 6RB#0            | 22.37        | 50          | PASS    |
| Band26(814-824) | 1.4MHz    | 16QAM      | 26697   | 1RB#0            | 22.31        | 50          | PASS    |
| Band26(814-824) | 1.4MHz    | 16QAM      | 26697   | 1RB#2            | 22.61        | 50          | PASS    |
| Band26(814-824) | 1.4MHz    | 16QAM      | 26697   | 1RB#5            | 22.48        | 50          | PASS    |
| Band26(814-824) | 1.4MHz    | 16QAM      | 26697   | 6RB#0            | 21.38        | 50          | PASS    |
| Band26(814-824) | 1.4MHz    | QPSK       | 26740   | 1RB#0            | 23.01        | 50          | PASS    |
| Band26(814-824) | 1.4MHz    | QPSK       | 26740   | 1RB#2            | 23.13        | 50          | PASS    |
| Band26(814-824) | 1.4MHz    | QPSK       | 26740   | 1RB#5            | 23.25        | 50          | PASS    |
| Band26(814-824) | 1.4MHz    | QPSK       | 26740   | 6RB#0            | 22.47        | 50          | PASS    |
| Band26(814-824) | 1.4MHz    | 16QAM      | 26740   | 1RB#0            | 22.34        | 50          | PASS    |
| Band26(814-824) | 1.4MHz    | 16QAM      | 26740   | 1RB#2            | 22.34        | 50          | PASS    |
| Band26(814-824) | 1.4MHz    | 16QAM      | 26740   | 1RB#5            | 22.16        | 50          | PASS    |
| Band26(814-824) | 1.4MHz    | 16QAM      | 26740   | 6RB#0            | 21.48        | 50          | PASS    |
| Band26(814-824) | 1.4MHz    | QPSK       | 26783   | 1RB#0            | 23.13        | 50          | PASS    |
| Band26(814-824) | 1.4MHz    | QPSK       | 26783   | 1RB#2            | 23.28        | 50          | PASS    |
| Band26(814-824) | 1.4MHz    | QPSK       | 26783   | 1RB#5            | 23.01        | 50          | PASS    |
| Band26(814-824) | 1.4MHz    | QPSK       | 26783   | 6RB#0            | 22.4         | 50          | PASS    |
| Band26(814-824) | 1.4MHz    | 16QAM      | 26783   | 1RB#0            | 22.23        | 50          | PASS    |
| Band26(814-824) | 1.4MHz    | 16QAM      | 26783   | 1RB#2            | 22.35        | 50          | PASS    |
| Band26(814-824) | 1.4MHz    | 16QAM      | 26783   | 1RB#5            | 22.34        | 50          | PASS    |
| Band26(814-824) | 1.4MHz    | 16QAM      | 26783   | 6RB#0            | 21.19        | 50          | PASS    |
| Band26(814-824) | 3MHz      | QPSK       | 26705   | 1RB#0            | 23.11        | 50          | PASS    |
| Band26(814-824) | 3MHz      | QPSK       | 26705   | 1RB#8            | 23.18        | 50          | PASS    |
| Band26(814-824) | 3MHz      | QPSK       | 26705   | 1RB#14           | 23.05        | 50          | PASS    |
| Band26(814-824) | 3MHz      | QPSK       | 26705   | 15RB#0           | 22.45        | 50          | PASS    |
| Band26(814-824) | 3MHz      | 16QAM      | 26705   | 1RB#0            | 22.33        | 50          | PASS    |
| Band26(814-824) | 3MHz      | 16QAM      | 26705   | 1RB#8            | 22.33        | 50          | PASS    |
| Band26(814-824) | 3MHz      | 16QAM      | 26705   | 1RB#14           | 22.31        | 50          | PASS    |
| Band26(814-824) | 3MHz      | 16QAM      | 26705   | 15RB#0           | 21.33        | 50          | PASS    |
| Band26(814-824) | 3MHz      | QPSK       | 26740   | 1RB#0            | 23.26        | 50          | PASS    |
| Band26(814-824) | 3MHz      | QPSK       | 26740   | 1RB#8            | 23.02        | 50          | PASS    |
| Band26(814-824) | 3MHz      | QPSK       | 26740   | 1RB#14           | 23.28        | 50          | PASS    |
| Band26(814-824) | 3MHz      | QPSK       | 26740   | 15RB#0           | 22.53        | 50          | PASS    |
| Band26(814-824) | 3MHz      | 16QAM      | 26740   | 1RB#0            | 22.34        | 50          | PASS    |

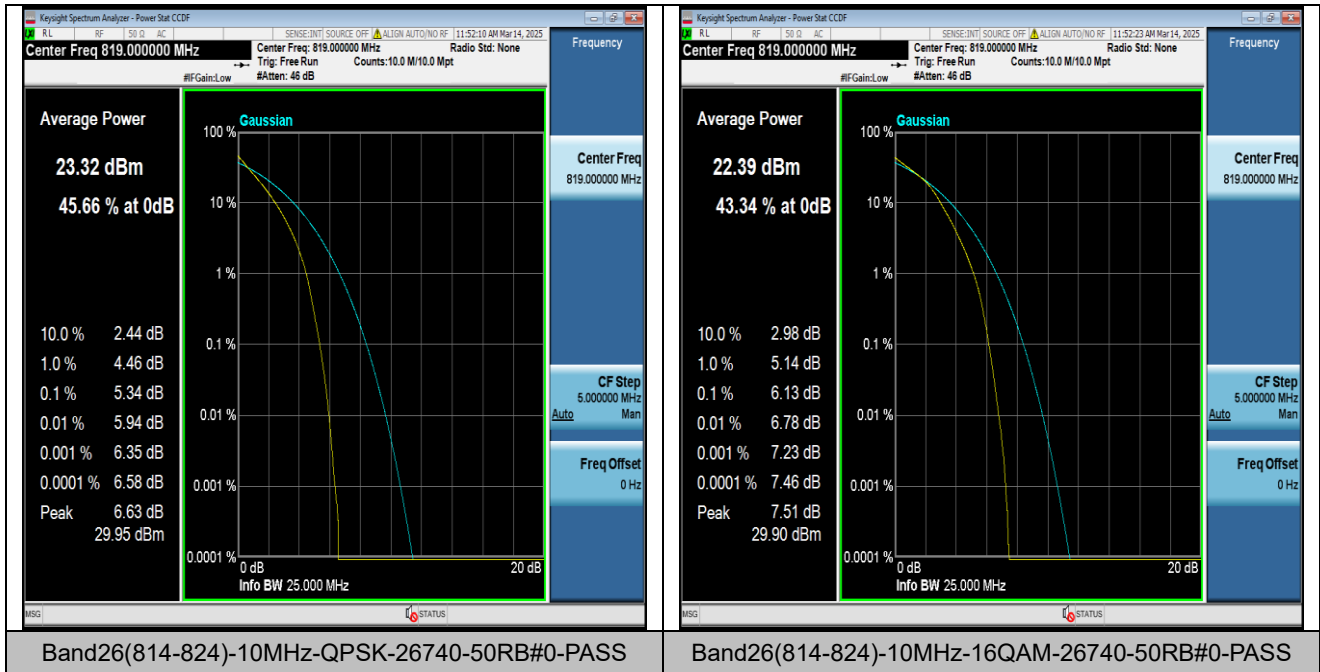
|                 |       |       |       |        |       |    |      |
|-----------------|-------|-------|-------|--------|-------|----|------|
| Band26(814-824) | 3MHz  | 16QAM | 26740 | 1RB#8  | 22.32 | 50 | PASS |
| Band26(814-824) | 3MHz  | 16QAM | 26740 | 1RB#14 | 22.23 | 50 | PASS |
| Band26(814-824) | 3MHz  | 16QAM | 26740 | 15RB#0 | 21.49 | 50 | PASS |
| Band26(814-824) | 3MHz  | QPSK  | 26775 | 1RB#0  | 23.01 | 50 | PASS |
| Band26(814-824) | 3MHz  | QPSK  | 26775 | 1RB#8  | 23.06 | 50 | PASS |
| Band26(814-824) | 3MHz  | QPSK  | 26775 | 1RB#14 | 23.29 | 50 | PASS |
| Band26(814-824) | 3MHz  | QPSK  | 26775 | 15RB#0 | 22.41 | 50 | PASS |
| Band26(814-824) | 3MHz  | 16QAM | 26775 | 1RB#0  | 22.49 | 50 | PASS |
| Band26(814-824) | 3MHz  | 16QAM | 26775 | 1RB#8  | 22.18 | 50 | PASS |
| Band26(814-824) | 3MHz  | 16QAM | 26775 | 1RB#14 | 22.62 | 50 | PASS |
| Band26(814-824) | 3MHz  | 16QAM | 26775 | 15RB#0 | 21.38 | 50 | PASS |
| Band26(814-824) | 5MHz  | QPSK  | 26715 | 1RB#0  | 23.12 | 50 | PASS |
| Band26(814-824) | 5MHz  | QPSK  | 26715 | 1RB#12 | 23.08 | 50 | PASS |
| Band26(814-824) | 5MHz  | QPSK  | 26715 | 1RB#24 | 23.22 | 50 | PASS |
| Band26(814-824) | 5MHz  | QPSK  | 26715 | 25RB#0 | 22.35 | 50 | PASS |
| Band26(814-824) | 5MHz  | 16QAM | 26715 | 1RB#0  | 22.05 | 50 | PASS |
| Band26(814-824) | 5MHz  | 16QAM | 26715 | 1RB#12 | 22.19 | 50 | PASS |
| Band26(814-824) | 5MHz  | 16QAM | 26715 | 1RB#24 | 22.29 | 50 | PASS |
| Band26(814-824) | 5MHz  | 16QAM | 26715 | 25RB#0 | 21.2  | 50 | PASS |
| Band26(814-824) | 5MHz  | QPSK  | 26740 | 1RB#0  | 23.01 | 50 | PASS |
| Band26(814-824) | 5MHz  | QPSK  | 26740 | 1RB#12 | 23.05 | 50 | PASS |
| Band26(814-824) | 5MHz  | QPSK  | 26740 | 1RB#24 | 23.27 | 50 | PASS |
| Band26(814-824) | 5MHz  | QPSK  | 26740 | 25RB#0 | 22.43 | 50 | PASS |
| Band26(814-824) | 5MHz  | 16QAM | 26740 | 1RB#0  | 22.38 | 50 | PASS |
| Band26(814-824) | 5MHz  | 16QAM | 26740 | 1RB#12 | 22.17 | 50 | PASS |
| Band26(814-824) | 5MHz  | 16QAM | 26740 | 1RB#24 | 22.23 | 50 | PASS |
| Band26(814-824) | 5MHz  | 16QAM | 26740 | 25RB#0 | 21.44 | 50 | PASS |
| Band26(814-824) | 5MHz  | QPSK  | 26765 | 1RB#0  | 23.05 | 50 | PASS |
| Band26(814-824) | 5MHz  | QPSK  | 26765 | 1RB#12 | 23.21 | 50 | PASS |
| Band26(814-824) | 5MHz  | QPSK  | 26765 | 1RB#24 | 23.13 | 50 | PASS |
| Band26(814-824) | 5MHz  | QPSK  | 26765 | 25RB#0 | 22.43 | 50 | PASS |
| Band26(814-824) | 5MHz  | 16QAM | 26765 | 1RB#0  | 22.34 | 50 | PASS |
| Band26(814-824) | 5MHz  | 16QAM | 26765 | 1RB#12 | 22.77 | 50 | PASS |
| Band26(814-824) | 5MHz  | 16QAM | 26765 | 1RB#24 | 22.21 | 50 | PASS |
| Band26(814-824) | 5MHz  | 16QAM | 26765 | 25RB#0 | 21.39 | 50 | PASS |
| Band26(814-824) | 10MHz | QPSK  | 26740 | 1RB#0  | 23.25 | 50 | PASS |
| Band26(814-824) | 10MHz | QPSK  | 26740 | 1RB#24 | 23.15 | 50 | PASS |
| Band26(814-824) | 10MHz | QPSK  | 26740 | 1RB#49 | 23.03 | 50 | PASS |
| Band26(814-824) | 10MHz | QPSK  | 26740 | 50RB#0 | 22.47 | 50 | PASS |
| Band26(814-824) | 10MHz | 16QAM | 26740 | 1RB#0  | 22.31 | 50 | PASS |
| Band26(814-824) | 10MHz | 16QAM | 26740 | 1RB#24 | 22.34 | 50 | PASS |
| Band26(814-824) | 10MHz | 16QAM | 26740 | 1RB#49 | 22.65 | 50 | PASS |
| Band26(814-824) | 10MHz | 16QAM | 26740 | 50RB#0 | 21.52 | 50 | PASS |

## Peak-to-Average Ratio(CCDF)

### Test Result

| Band            | Bandwidth | Modulation | Channel | RB Configuration | Result (dB) | Limit (dB) | Verdict |
|-----------------|-----------|------------|---------|------------------|-------------|------------|---------|
| Band26(814-824) | 10MHz     | QPSK       | 26740   | 50RB#0           | 5.34        | 13         | PASS    |
| Band26(814-824) | 10MHz     | 16QAM      | 26740   | 50RB#0           | 6.13        | 13         | PASS    |

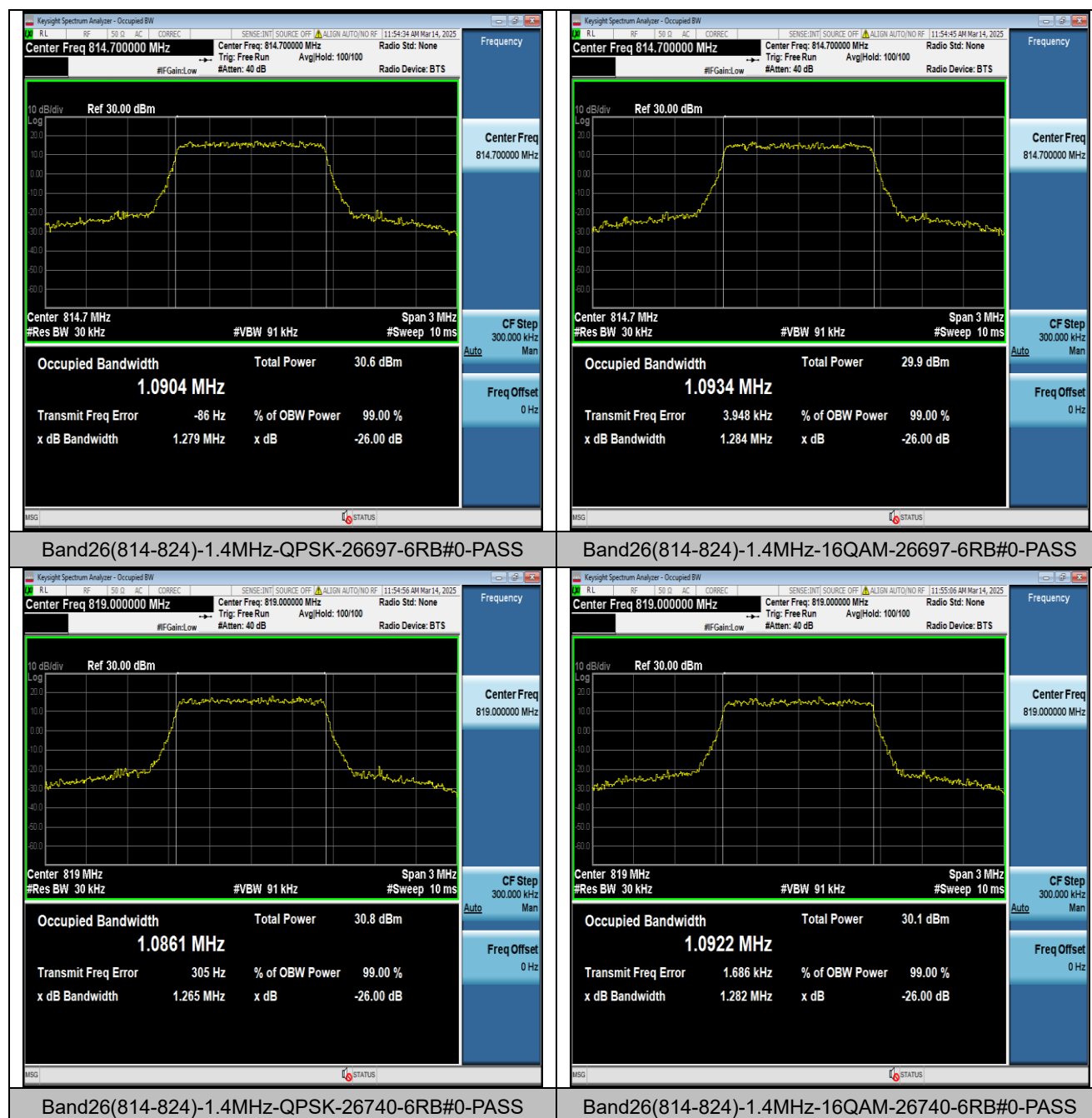
## Test Graphs

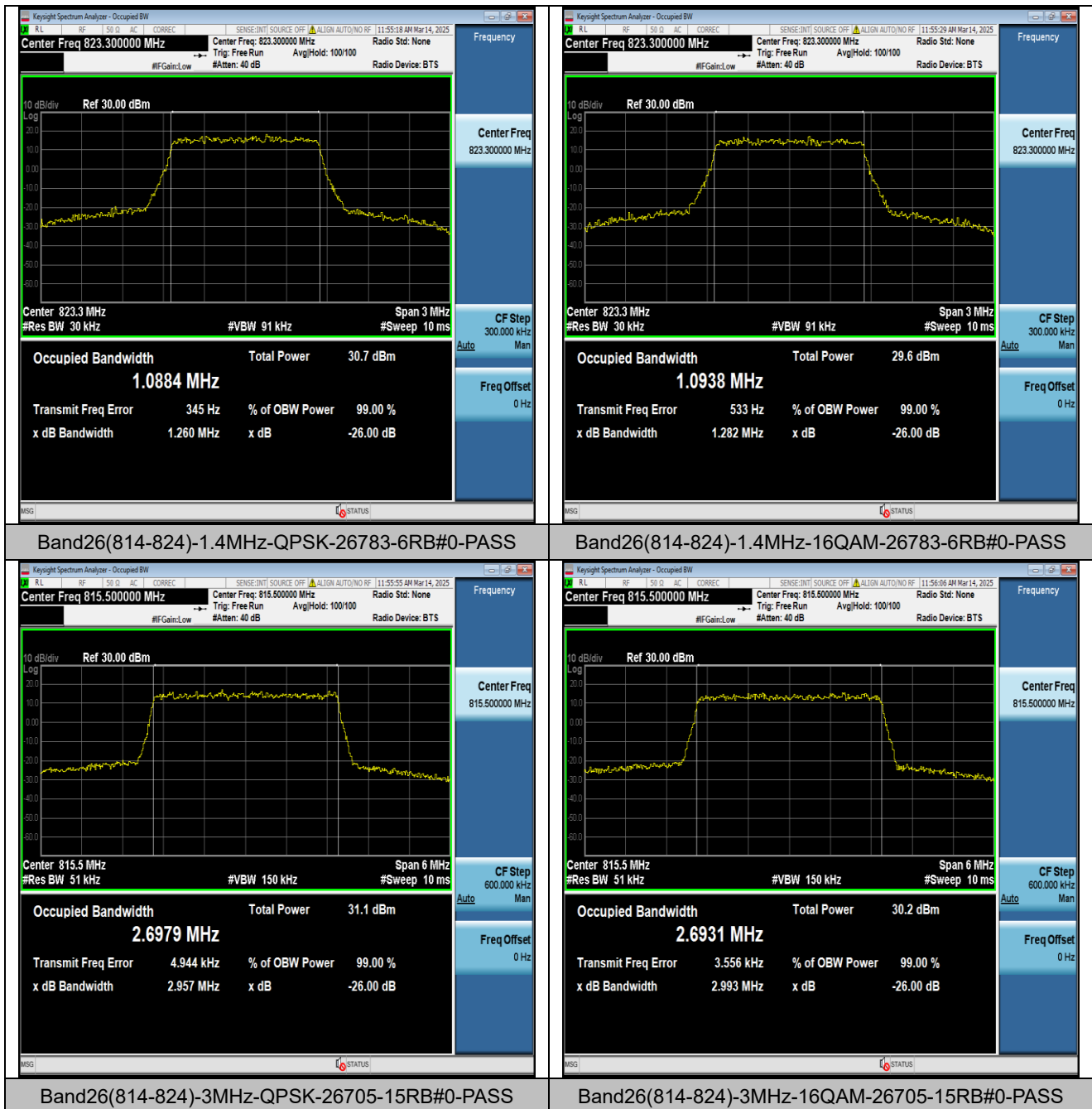


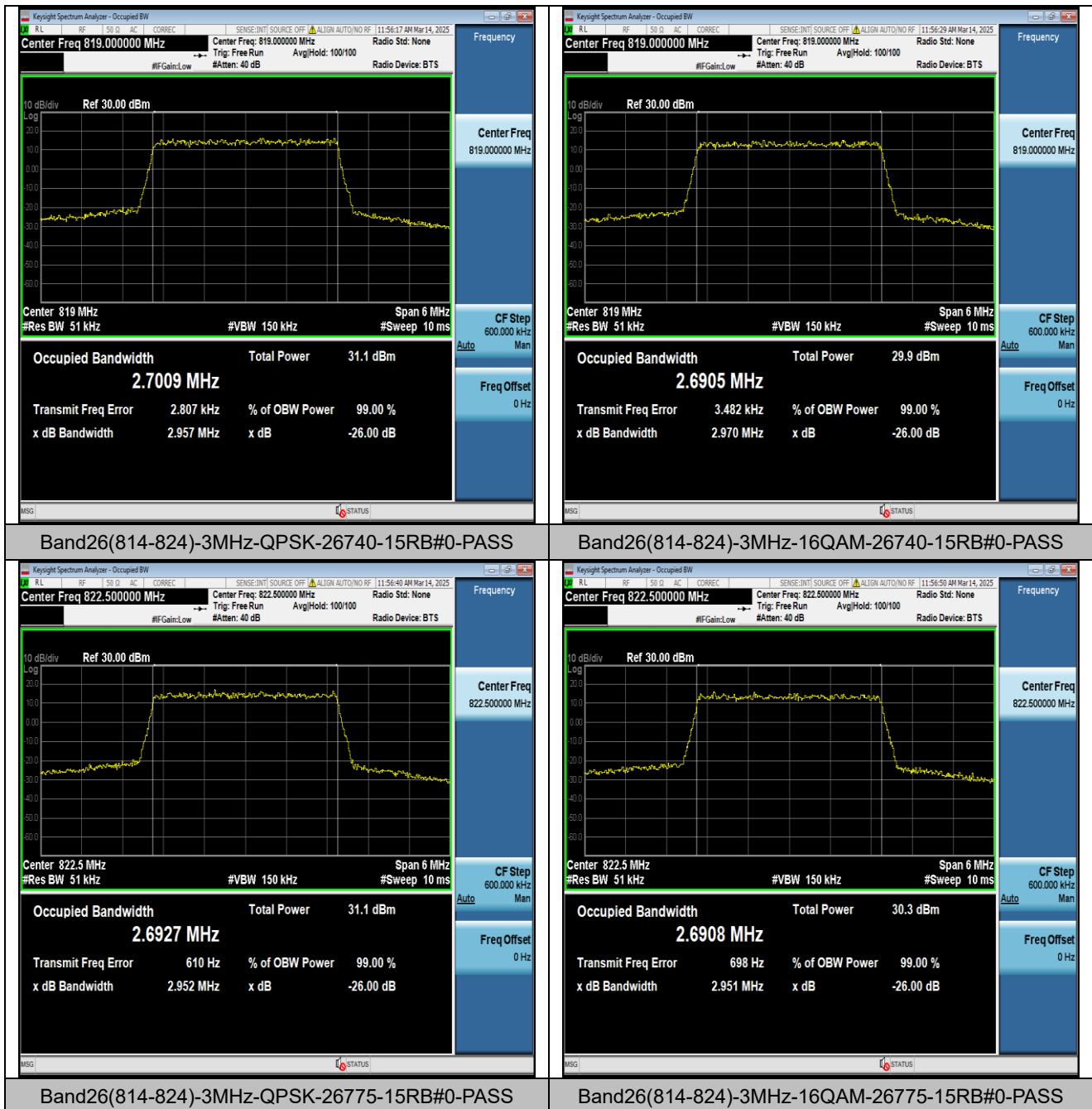
## 26dB Bandwidth and Occupied Bandwidth

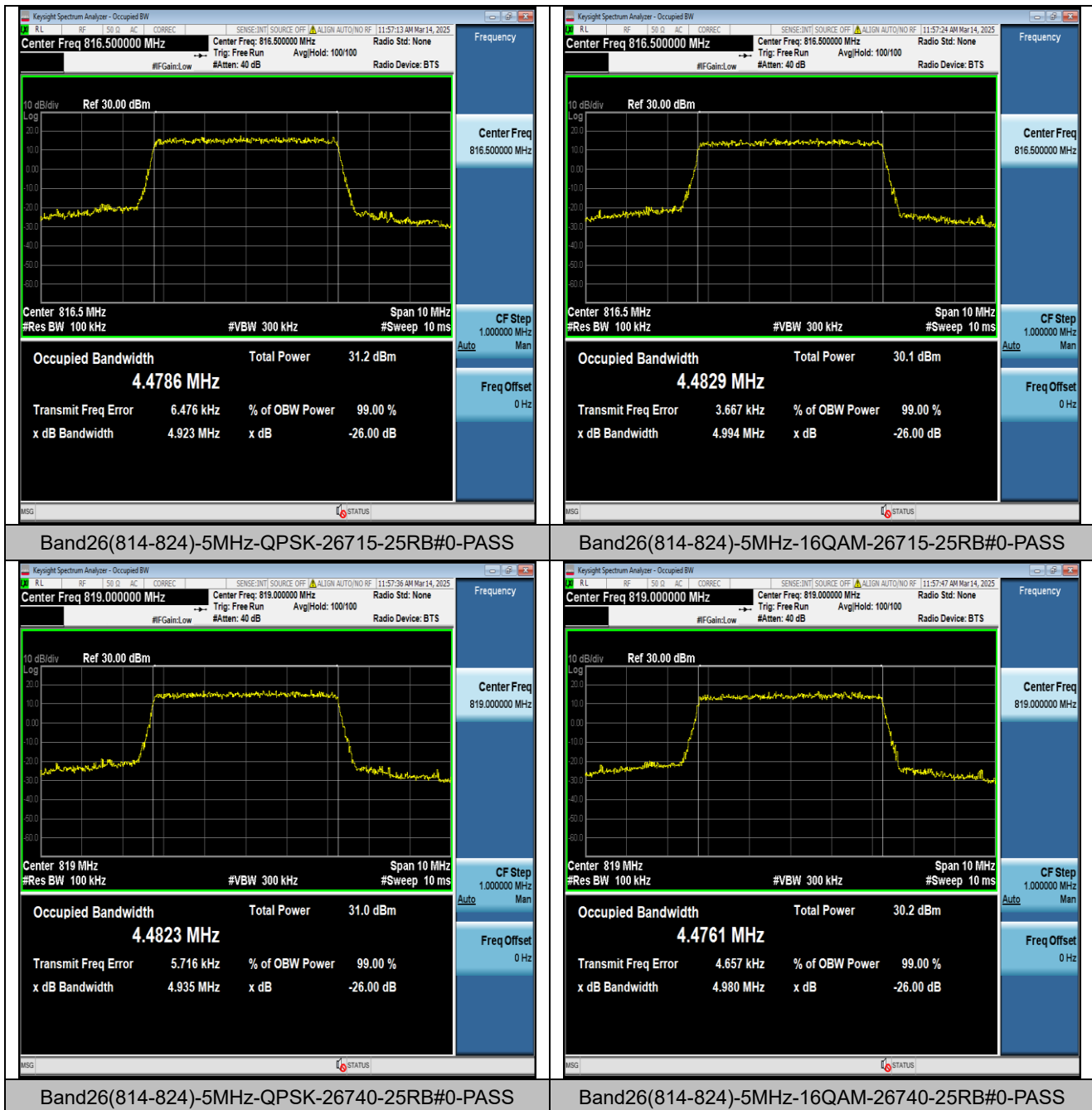
### Test Result

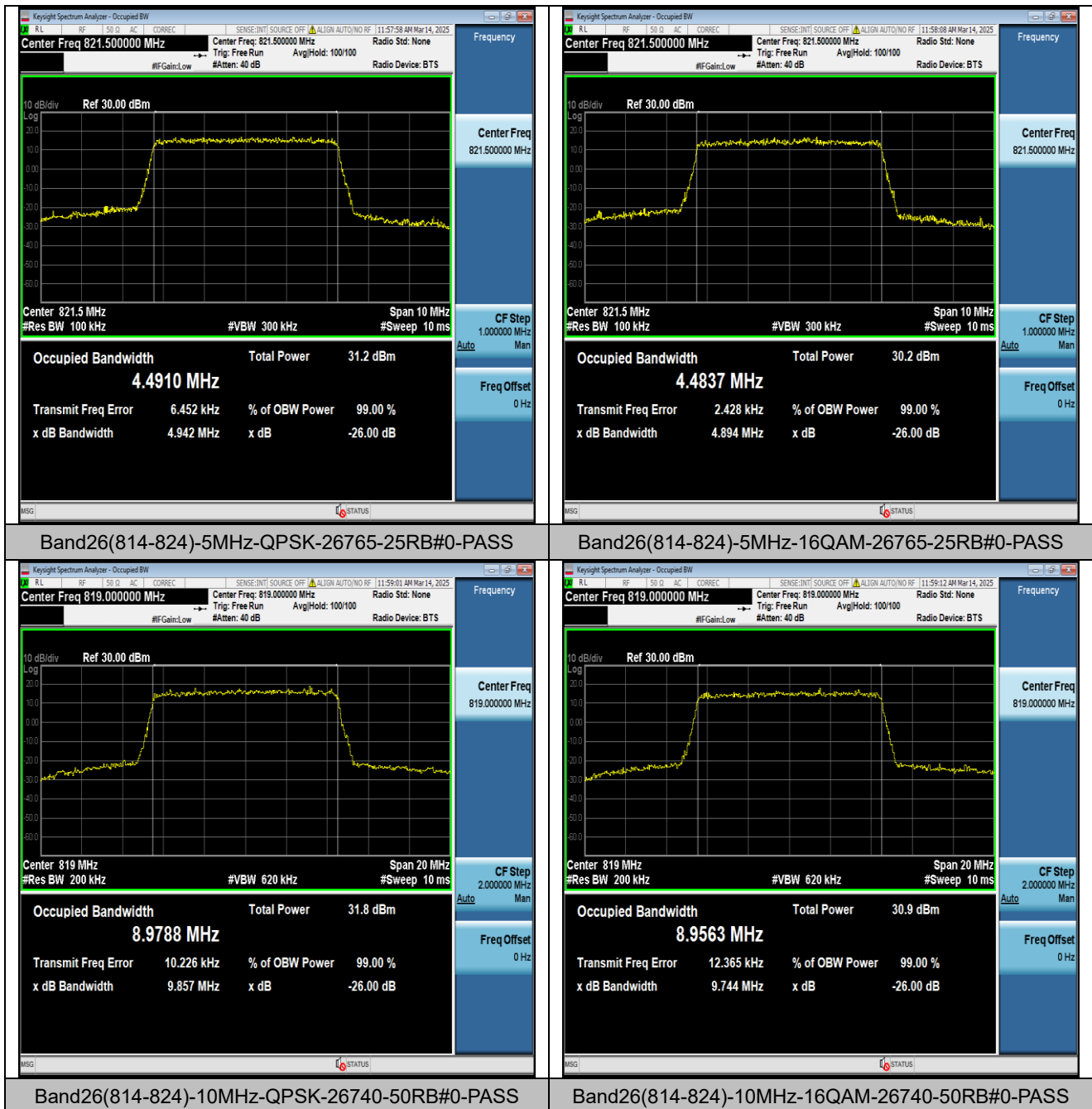
| Band            | Bandwidth | Modulation | Channel | RB Configuration | OBW (MHz) | 26dB EBW (MHz) | Verdict |
|-----------------|-----------|------------|---------|------------------|-----------|----------------|---------|
| Band26(814-824) | 1.4MHz    | QPSK       | 26697   | 6RB#0            | 1.0904    | 1.279          | PASS    |
| Band26(814-824) | 1.4MHz    | 16QAM      | 26697   | 6RB#0            | 1.0934    | 1.284          | PASS    |
| Band26(814-824) | 1.4MHz    | QPSK       | 26740   | 6RB#0            | 1.0861    | 1.265          | PASS    |
| Band26(814-824) | 1.4MHz    | 16QAM      | 26740   | 6RB#0            | 1.0922    | 1.282          | PASS    |
| Band26(814-824) | 1.4MHz    | QPSK       | 26783   | 6RB#0            | 1.0884    | 1.260          | PASS    |
| Band26(814-824) | 1.4MHz    | 16QAM      | 26783   | 6RB#0            | 1.0938    | 1.282          | PASS    |
| Band26(814-824) | 3MHz      | QPSK       | 26705   | 15RB#0           | 2.6979    | 2.957          | PASS    |
| Band26(814-824) | 3MHz      | 16QAM      | 26705   | 15RB#0           | 2.6931    | 2.993          | PASS    |
| Band26(814-824) | 3MHz      | QPSK       | 26740   | 15RB#0           | 2.7009    | 2.957          | PASS    |
| Band26(814-824) | 3MHz      | 16QAM      | 26740   | 15RB#0           | 2.6905    | 2.970          | PASS    |
| Band26(814-824) | 3MHz      | QPSK       | 26775   | 15RB#0           | 2.6927    | 2.952          | PASS    |
| Band26(814-824) | 3MHz      | 16QAM      | 26775   | 15RB#0           | 2.6908    | 2.951          | PASS    |
| Band26(814-824) | 5MHz      | QPSK       | 26715   | 25RB#0           | 4.4786    | 4.923          | PASS    |
| Band26(814-824) | 5MHz      | 16QAM      | 26715   | 25RB#0           | 4.4829    | 4.994          | PASS    |
| Band26(814-824) | 5MHz      | QPSK       | 26740   | 25RB#0           | 4.4823    | 4.935          | PASS    |
| Band26(814-824) | 5MHz      | 16QAM      | 26740   | 25RB#0           | 4.4761    | 4.980          | PASS    |
| Band26(814-824) | 5MHz      | QPSK       | 26765   | 25RB#0           | 4.4910    | 4.942          | PASS    |
| Band26(814-824) | 5MHz      | 16QAM      | 26765   | 25RB#0           | 4.4837    | 4.894          | PASS    |
| Band26(814-824) | 10MHz     | QPSK       | 26740   | 50RB#0           | 8.9788    | 9.857          | PASS    |
| Band26(814-824) | 10MHz     | 16QAM      | 26740   | 50RB#0           | 8.9563    | 9.744          | PASS    |





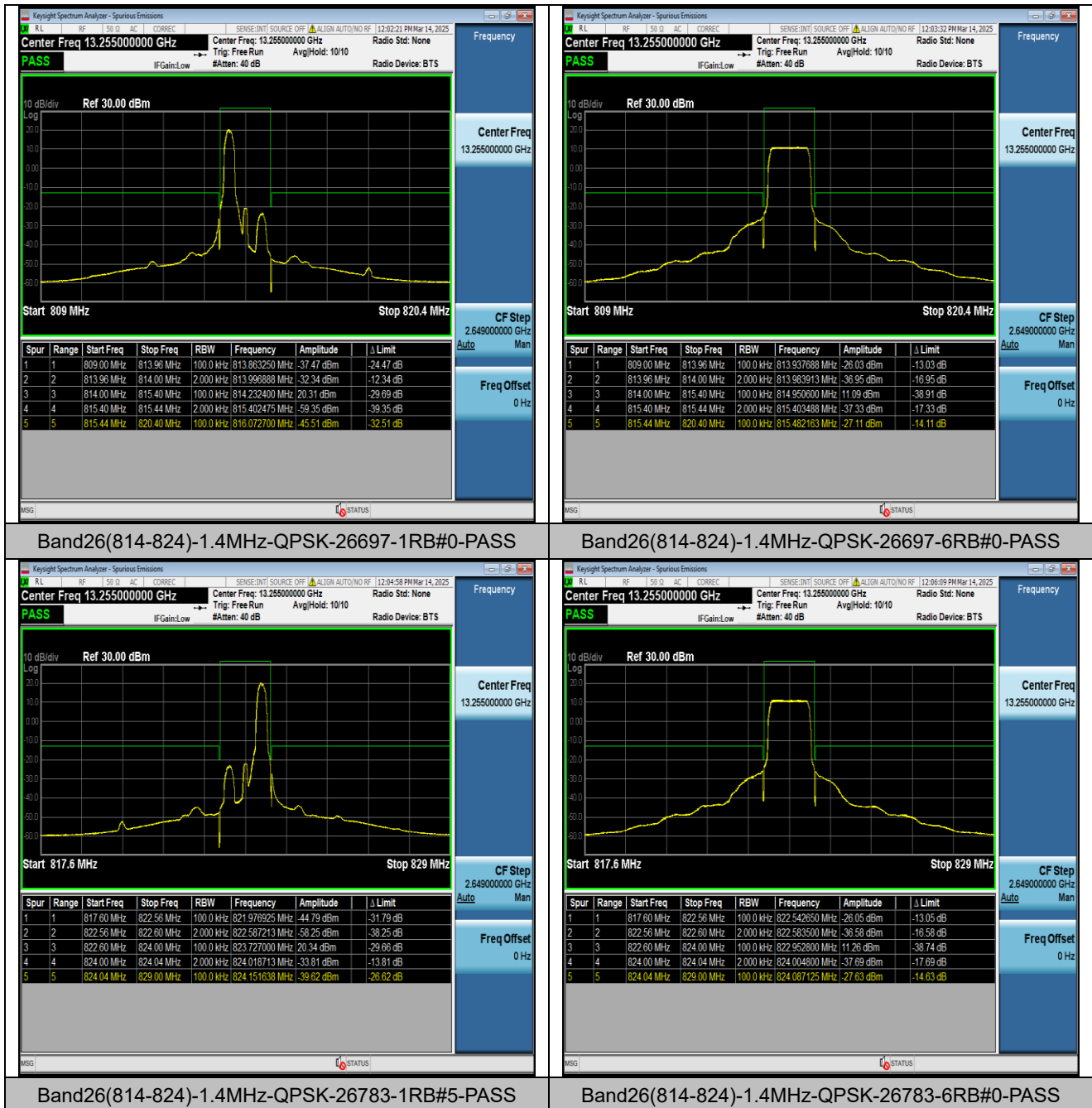


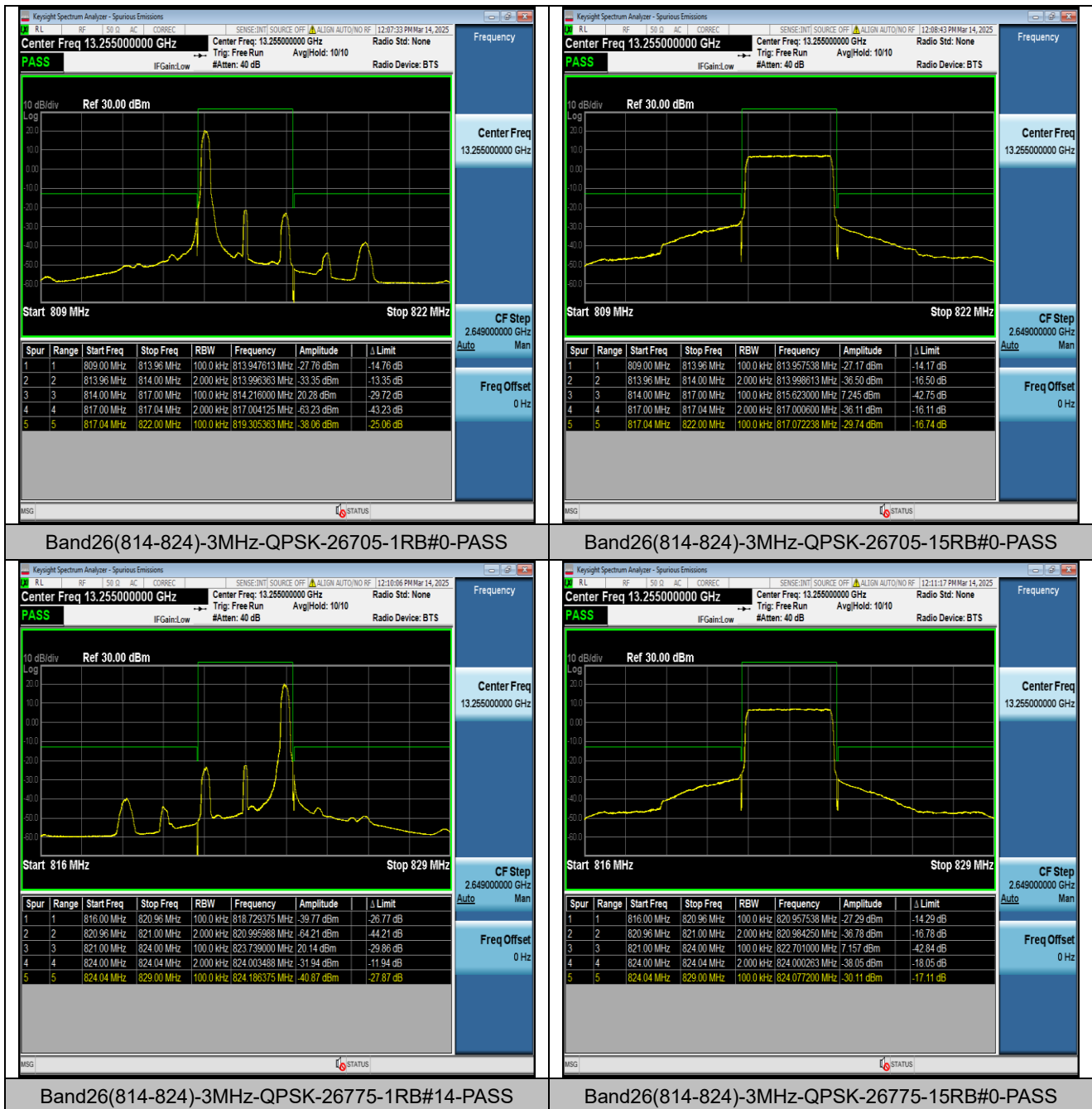


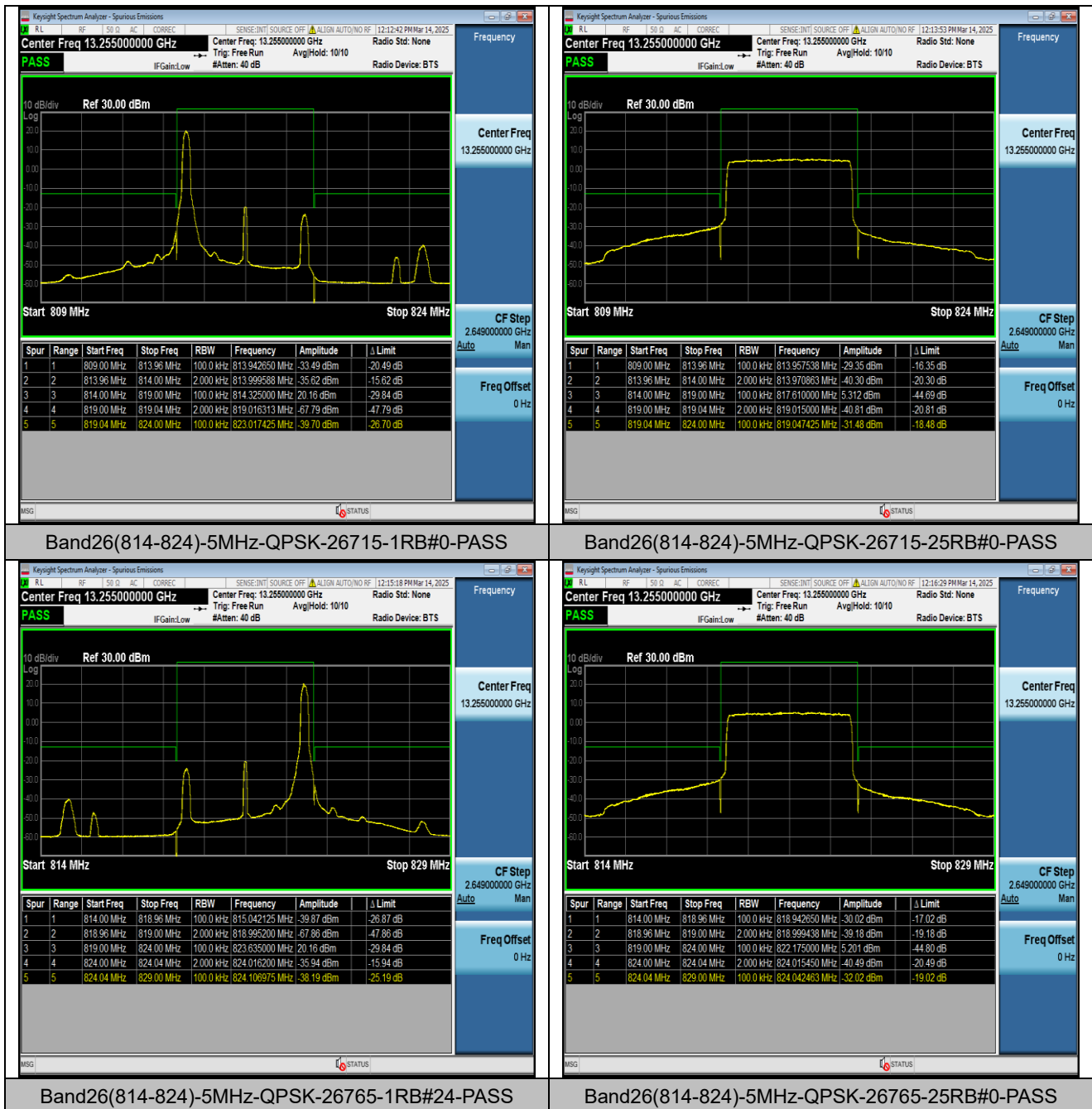


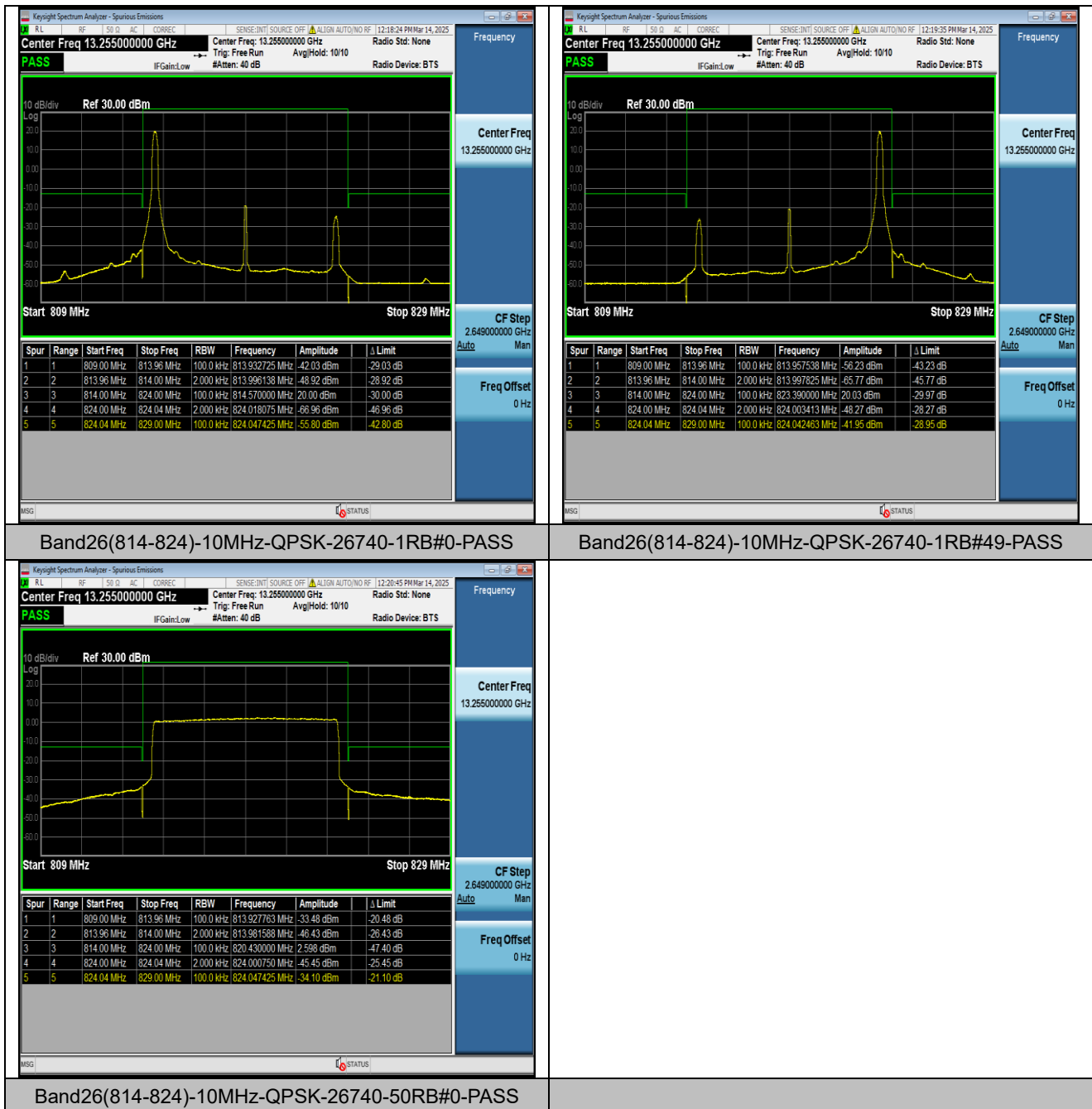
## Band Edge

## Test Graphs



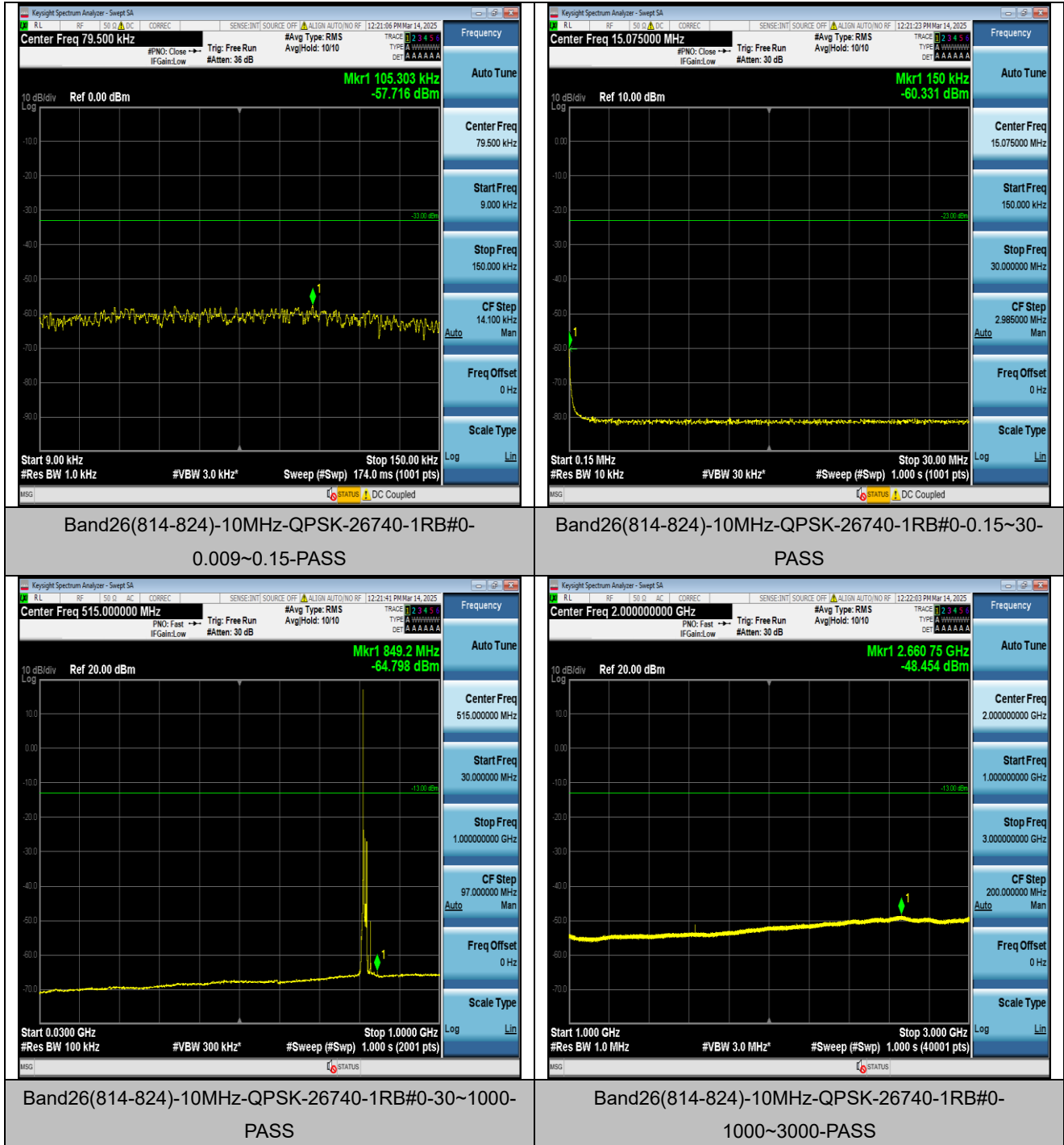


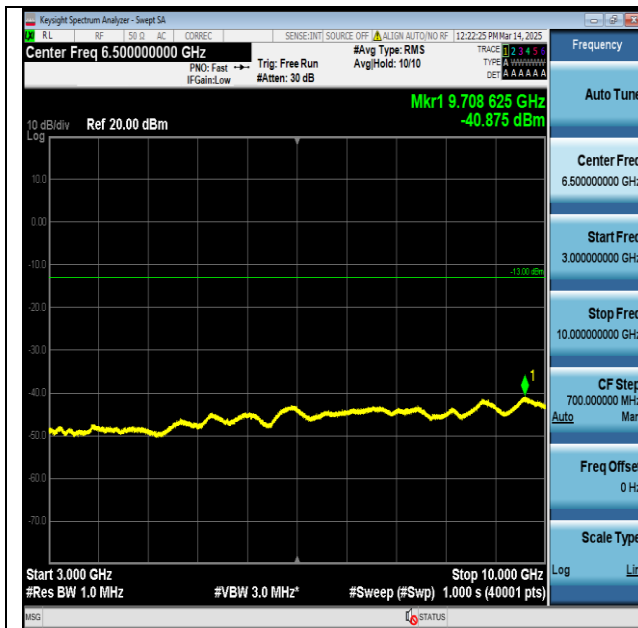




# Conducted Spurious Emission

## Test Graphs





Band26(814-824)-10MHz-QPSK-26740-1RB#0-  
3000~10000-PASS

## Frequency Stability

### Test Result

| Voltage         |           |            |         |              |               |                  |                |                 |         |
|-----------------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band            | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
| Band26(814-824) | 10MHz     | QPSK       | 26740   | 100RB#0      | VN            | NT               | -1.30          | -0.001587       | PASS    |
| Band26(814-824) | 10MHz     | QPSK       | 26740   | 100RB#0      | VL            | NT               | -1.20          | -0.001465       | PASS    |
| Band26(814-824) | 10MHz     | QPSK       | 26740   | 100RB#0      | VH            | NT               | 0.40           | 0.000488        | PASS    |

| Temperature     |           |            |         |              |               |                  |                |                 |         |
|-----------------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band            | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
| Band26(814-824) | 10MHz     | QPSK       | 26740   | 100RB#0      | NV            | -30              | 0.20           | 0.000244        | PASS    |
| Band26(814-824) | 10MHz     | QPSK       | 26740   | 100RB#0      | NV            | -20              | 0.10           | 0.000122        | PASS    |
| Band26(814-824) | 10MHz     | QPSK       | 26740   | 100RB#0      | NV            | -10              | 0.60           | 0.000733        | PASS    |
| Band26(814-824) | 10MHz     | QPSK       | 26740   | 100RB#0      | NV            | 0                | -1.20          | -0.001465       | PASS    |
| Band26(814-824) | 10MHz     | QPSK       | 26740   | 100RB#0      | NV            | 10               | 0.10           | 0.000122        | PASS    |
| Band26(814-824) | 10MHz     | QPSK       | 26740   | 100RB#0      | NV            | 20               | -0.70          | -0.000855       | PASS    |
| Band26(814-824) | 10MHz     | QPSK       | 26740   | 100RB#0      | NV            | 30               | -0.40          | -0.000488       | PASS    |
| Band26(814-824) | 10MHz     | QPSK       | 26740   | 100RB#0      | NV            | 40               | -1.40          | -0.001709       | PASS    |
| Band26(814-824) | 10MHz     | QPSK       | 26740   | 100RB#0      | NV            | 50               | -1.10          | -0.001343       | PASS    |

~The End~