

# Appendix-B LTE Band 14

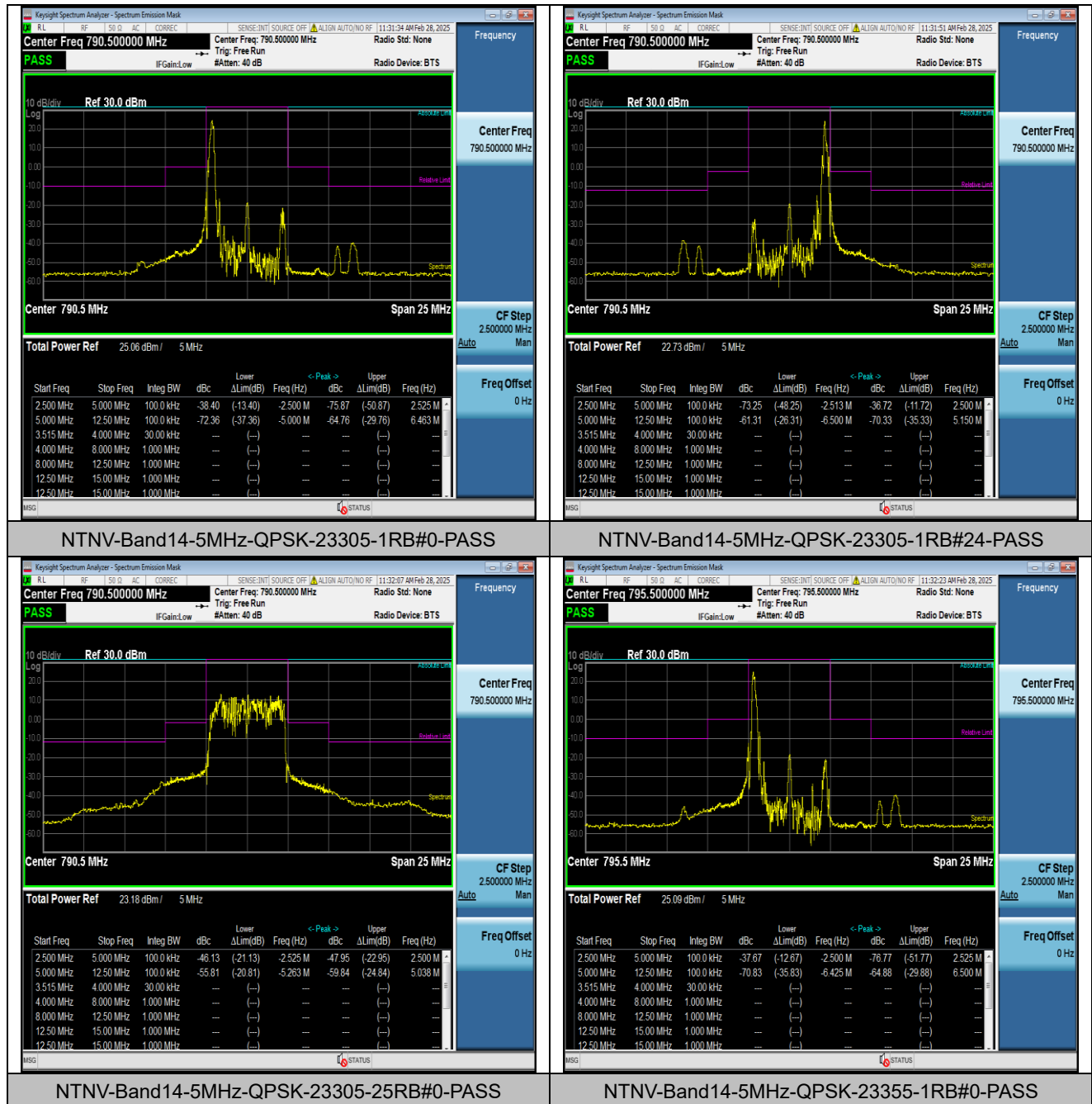
## Effective (Isotropic) Radiated Power Output Data

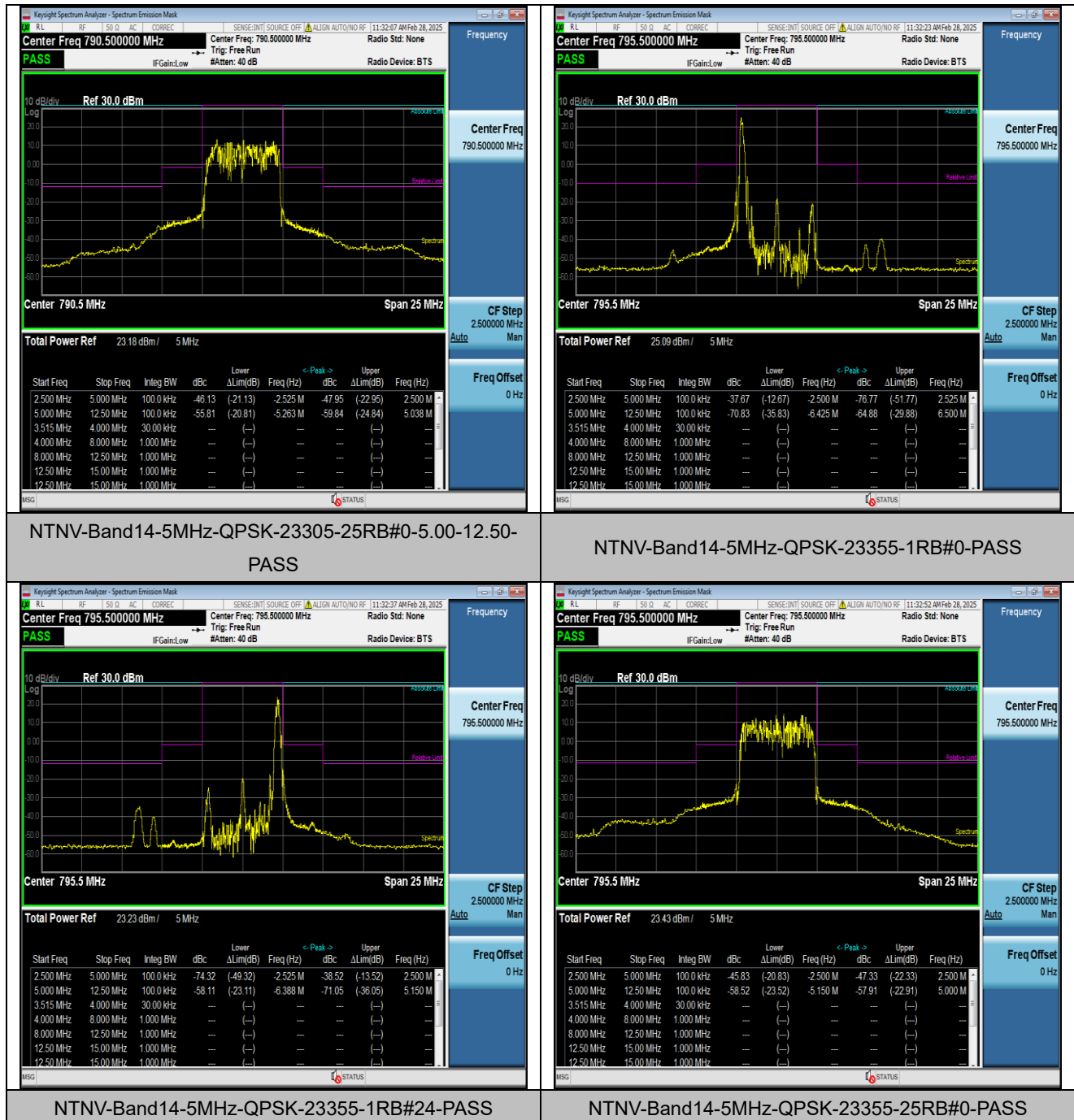
### Test Result

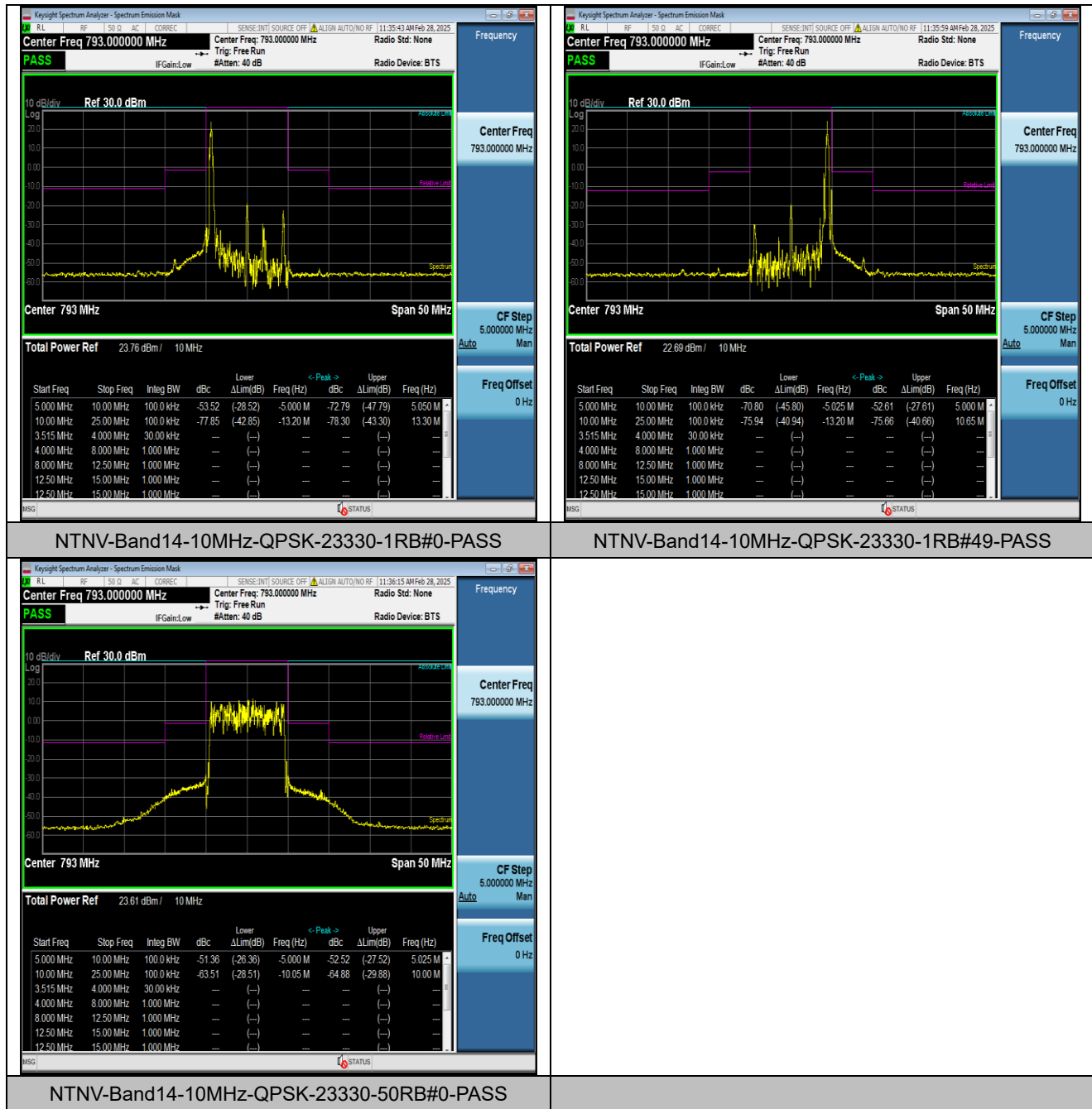
| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result (dBm) | ERP (dBm) | Limit (dBm) | Verdict |
|--------|-----------|------------|---------|------------------|--------------|-----------|-------------|---------|
| Band14 | 5MHz      | QPSK       | 23305   | 1RB#0            | 23.46        | 24.94     | 34.77       | PASS    |
| Band14 | 5MHz      | QPSK       | 23305   | 1RB#12           | 23.69        | 25.17     | 34.77       | PASS    |
| Band14 | 5MHz      | QPSK       | 23305   | 1RB#24           | 23.37        | 24.85     | 34.77       | PASS    |
| Band14 | 5MHz      | QPSK       | 23305   | 25RB#0           | 22.65        | 24.13     | 34.77       | PASS    |
| Band14 | 5MHz      | 16QAM      | 23305   | 1RB#0            | 22.55        | 24.03     | 34.77       | PASS    |
| Band14 | 5MHz      | 16QAM      | 23305   | 1RB#12           | 22.27        | 23.75     | 34.77       | PASS    |
| Band14 | 5MHz      | 16QAM      | 23305   | 1RB#24           | 22.1         | 23.58     | 34.77       | PASS    |
| Band14 | 5MHz      | 16QAM      | 23305   | 25RB#0           | 21.65        | 23.13     | 34.77       | PASS    |
| Band14 | 5MHz      | QPSK       | 23330   | 1RB#0            | 23.42        | 24.9      | 34.77       | PASS    |
| Band14 | 5MHz      | QPSK       | 23330   | 1RB#12           | 23.44        | 24.92     | 34.77       | PASS    |
| Band14 | 5MHz      | QPSK       | 23330   | 1RB#24           | 23.52        | 25        | 34.77       | PASS    |
| Band14 | 5MHz      | QPSK       | 23330   | 25RB#0           | 22.49        | 23.97     | 34.77       | PASS    |
| Band14 | 5MHz      | 16QAM      | 23330   | 1RB#0            | 22.1         | 23.58     | 34.77       | PASS    |
| Band14 | 5MHz      | 16QAM      | 23330   | 1RB#12           | 22.2         | 23.68     | 34.77       | PASS    |
| Band14 | 5MHz      | 16QAM      | 23330   | 1RB#24           | 22.26        | 23.74     | 34.77       | PASS    |
| Band14 | 5MHz      | 16QAM      | 23330   | 25RB#0           | 21.54        | 23.02     | 34.77       | PASS    |
| Band14 | 5MHz      | QPSK       | 23355   | 1RB#0            | 23.47        | 24.95     | 34.77       | PASS    |
| Band14 | 5MHz      | QPSK       | 23355   | 1RB#12           | 23.68        | 25.16     | 34.77       | PASS    |
| Band14 | 5MHz      | QPSK       | 23355   | 1RB#24           | 23.28        | 24.76     | 34.77       | PASS    |
| Band14 | 5MHz      | QPSK       | 23355   | 25RB#0           | 22.49        | 23.97     | 34.77       | PASS    |
| Band14 | 5MHz      | 16QAM      | 23355   | 1RB#0            | 22.43        | 23.91     | 34.77       | PASS    |
| Band14 | 5MHz      | 16QAM      | 23355   | 1RB#12           | 22.45        | 23.93     | 34.77       | PASS    |
| Band14 | 5MHz      | 16QAM      | 23355   | 1RB#24           | 22.02        | 23.5      | 34.77       | PASS    |
| Band14 | 5MHz      | 16QAM      | 23355   | 25RB#0           | 21.55        | 23.03     | 34.77       | PASS    |
| Band14 | 10MHz     | QPSK       | 23330   | 1RB#0            | 23.24        | 24.72     | 34.77       | PASS    |
| Band14 | 10MHz     | QPSK       | 23330   | 1RB#24           | 23.28        | 24.76     | 34.77       | PASS    |
| Band14 | 10MHz     | QPSK       | 23330   | 1RB#49           | 23.36        | 24.84     | 34.77       | PASS    |
| Band14 | 10MHz     | QPSK       | 23330   | 50RB#0           | 22.52        | 24        | 34.77       | PASS    |
| Band14 | 10MHz     | 16QAM      | 23330   | 1RB#0            | 22.12        | 23.6      | 34.77       | PASS    |
| Band14 | 10MHz     | 16QAM      | 23330   | 1RB#24           | 22.25        | 23.73     | 34.77       | PASS    |
| Band14 | 10MHz     | 16QAM      | 23330   | 1RB#49           | 22.11        | 23.59     | 34.77       | PASS    |
| Band14 | 10MHz     | 16QAM      | 23330   | 50RB#0           | 21.58        | 23.06     | 34.77       | PASS    |

## Spectrum\_emission\_mask

## Test Graphs





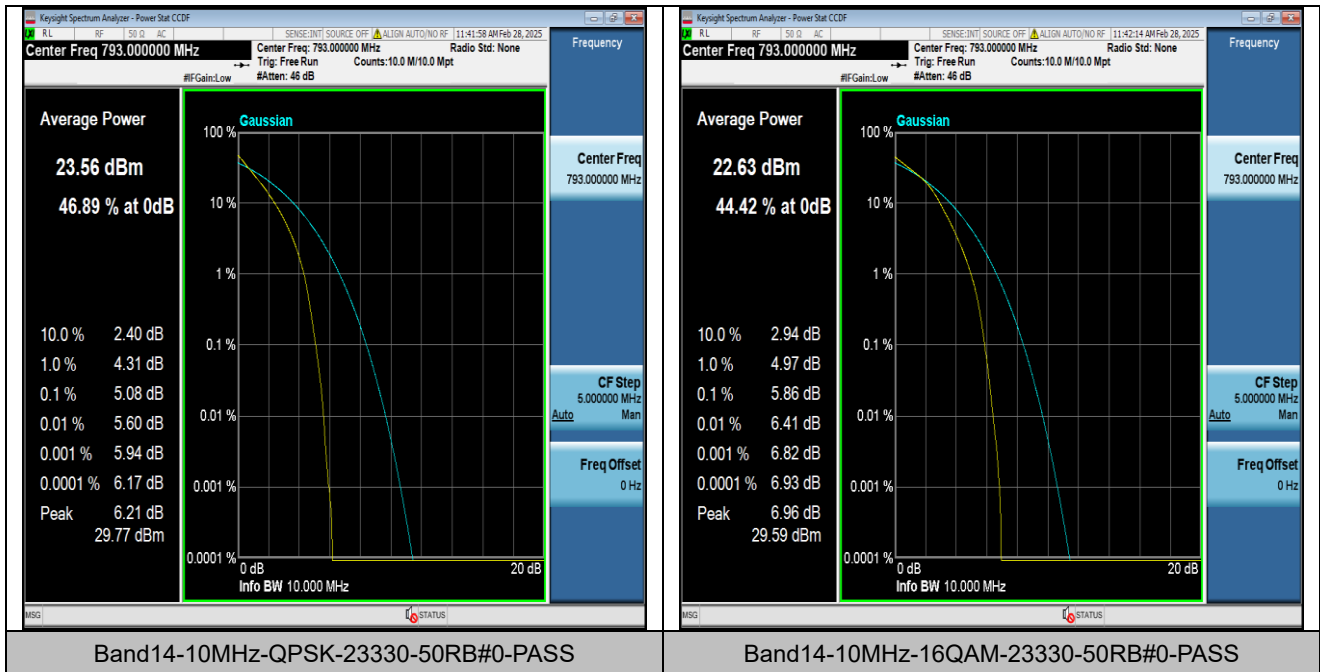


## Peak-to-Average Ratio(CCDF)

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result (dB) | Limit (dB) | Verdict |
|--------|-----------|------------|---------|------------------|-------------|------------|---------|
| Band14 | 10MHz     | QPSK       | 23330   | 50RB#0           | 5.08        | 13         | PASS    |
| Band14 | 10MHz     | 16QAM      | 23330   | 50RB#0           | 5.86        | 13         | PASS    |

## Test Graphs

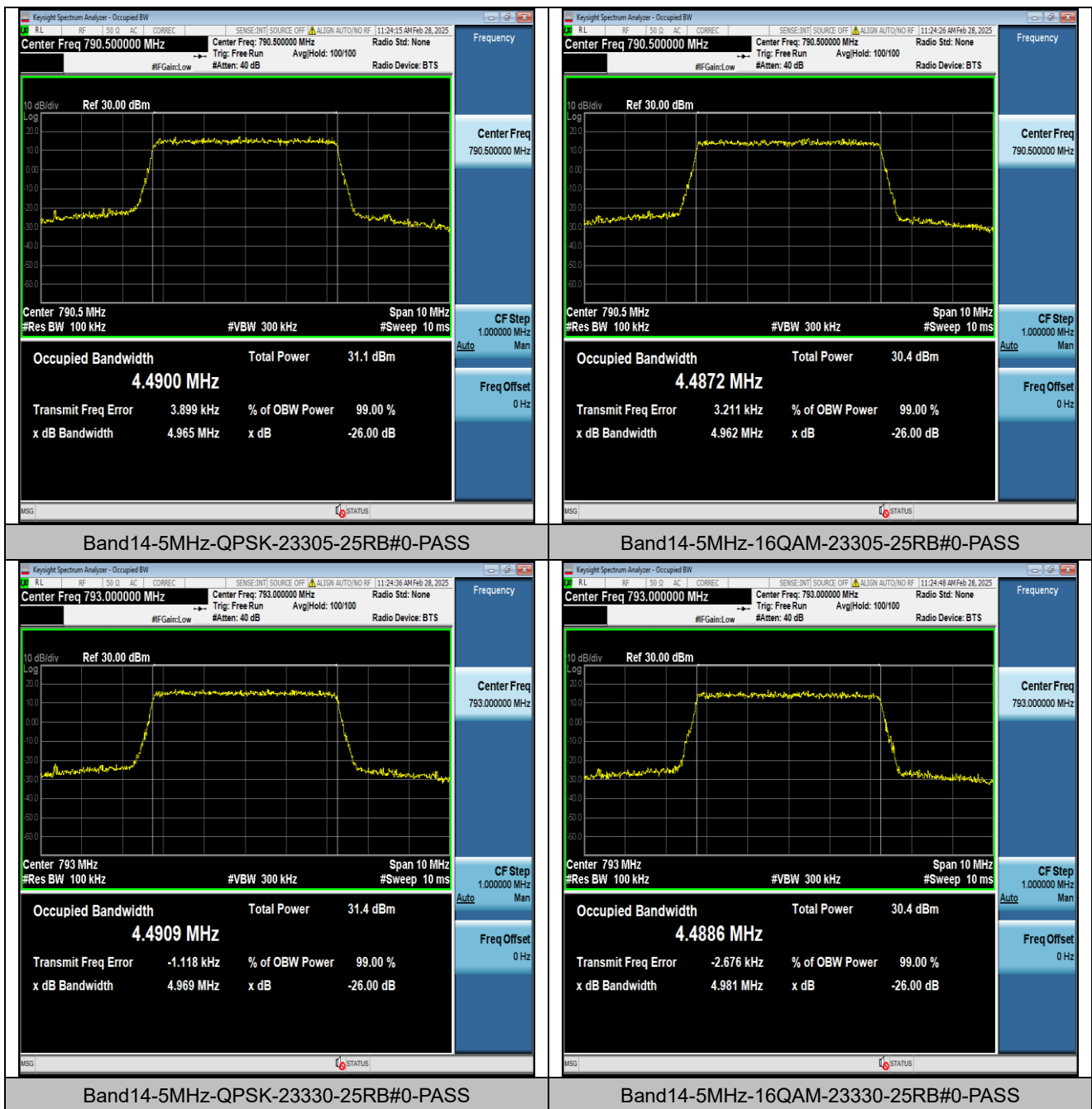


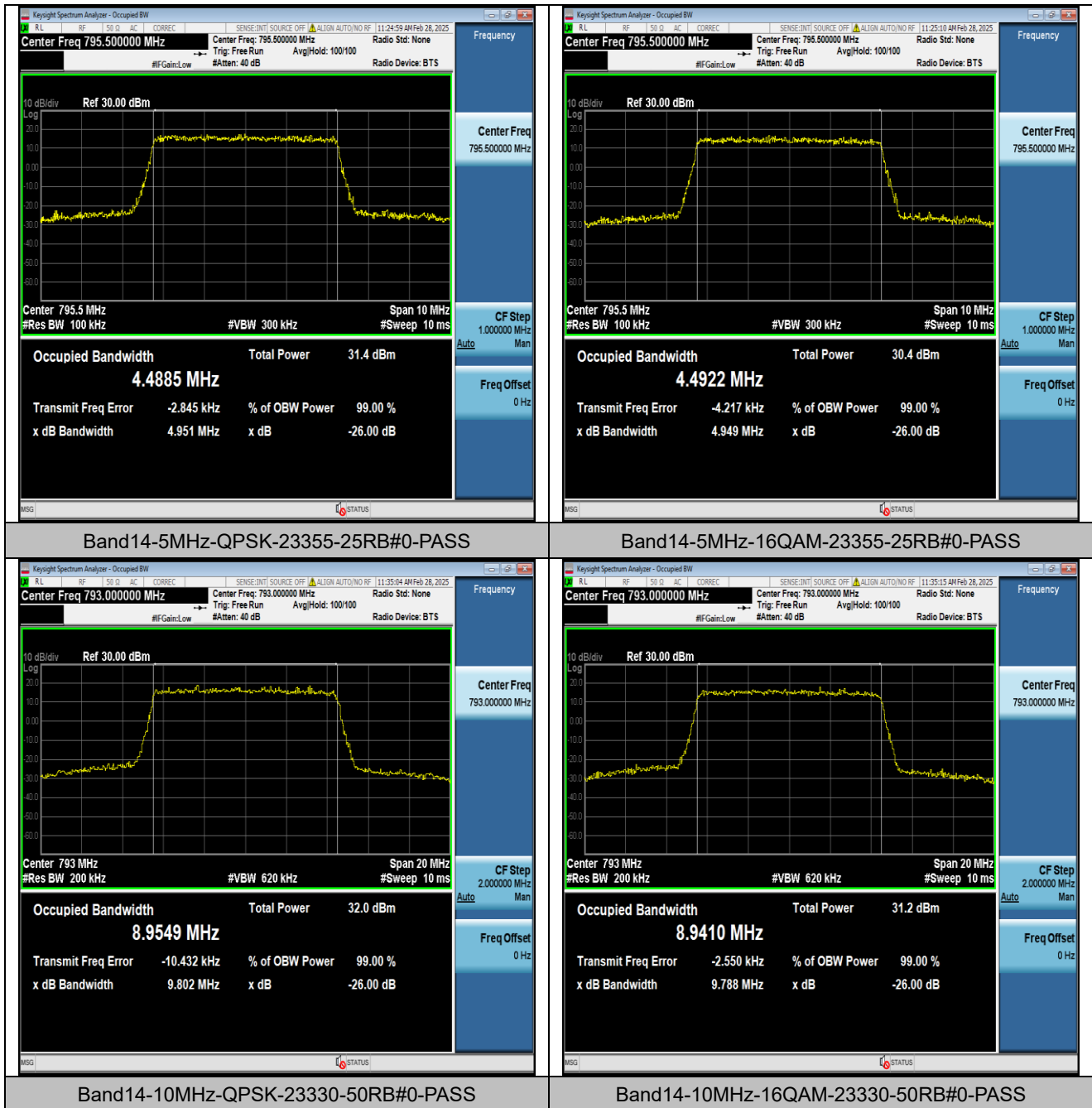
## 26dB Bandwidth and Occupied Bandwidth

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | OBW (MHz) | 26dB EBW (MHz) | Verdict |
|--------|-----------|------------|---------|------------------|-----------|----------------|---------|
| Band14 | 5MHz      | QPSK       | 23305   | 25RB#0           | 4.4900    | 4.965          | PASS    |
| Band14 | 5MHz      | 16QAM      | 23305   | 25RB#0           | 4.4872    | 4.962          | PASS    |
| Band14 | 5MHz      | QPSK       | 23330   | 25RB#0           | 4.4909    | 4.969          | PASS    |
| Band14 | 5MHz      | 16QAM      | 23330   | 25RB#0           | 4.4886    | 4.981          | PASS    |
| Band14 | 5MHz      | QPSK       | 23355   | 25RB#0           | 4.4885    | 4.951          | PASS    |
| Band14 | 5MHz      | 16QAM      | 23355   | 25RB#0           | 4.4922    | 4.949          | PASS    |
| Band14 | 10MHz     | QPSK       | 23330   | 50RB#0           | 8.9549    | 9.802          | PASS    |
| Band14 | 10MHz     | 16QAM      | 23330   | 50RB#0           | 8.9410    | 9.788          | PASS    |

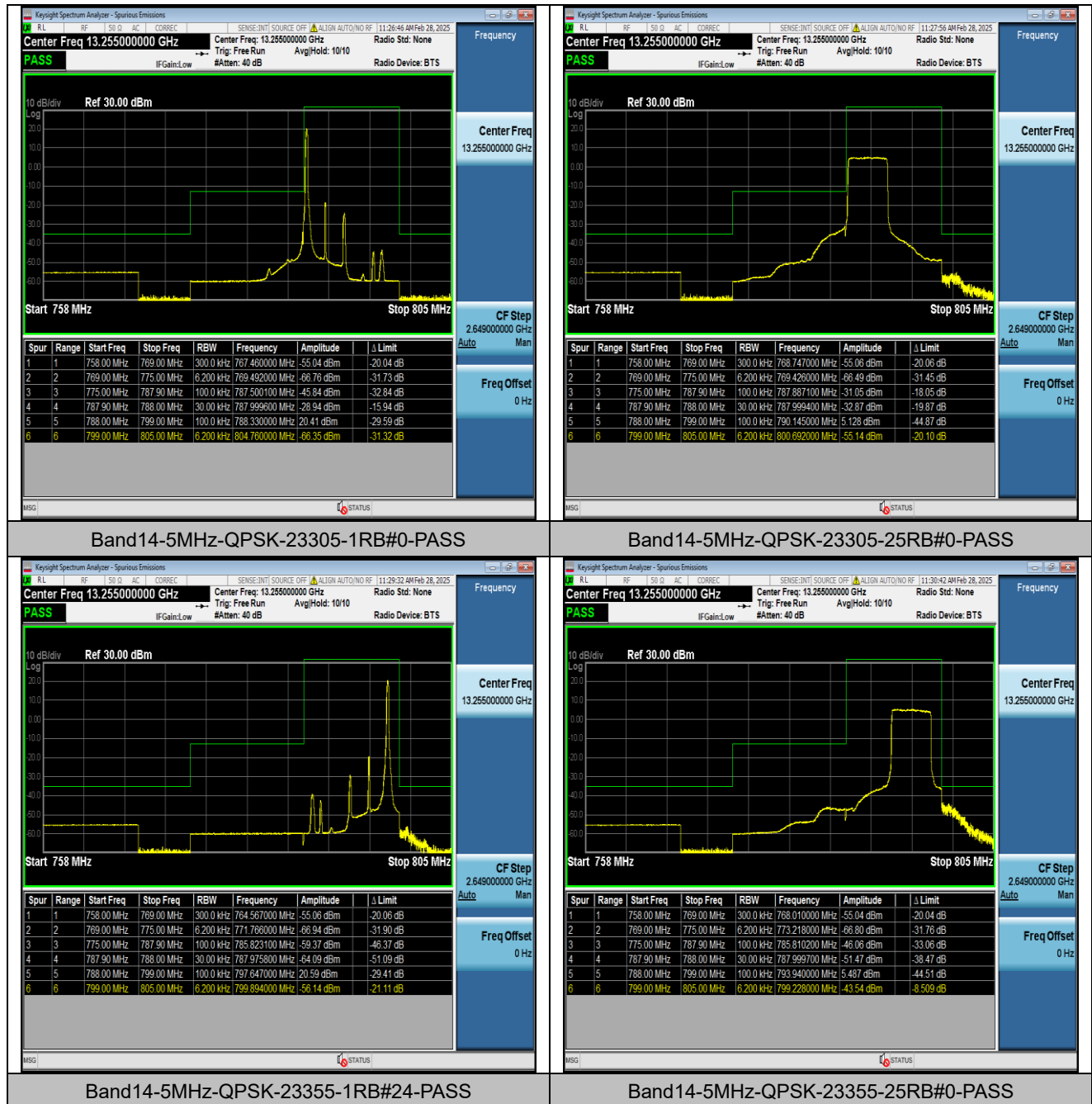
## Test Graphs

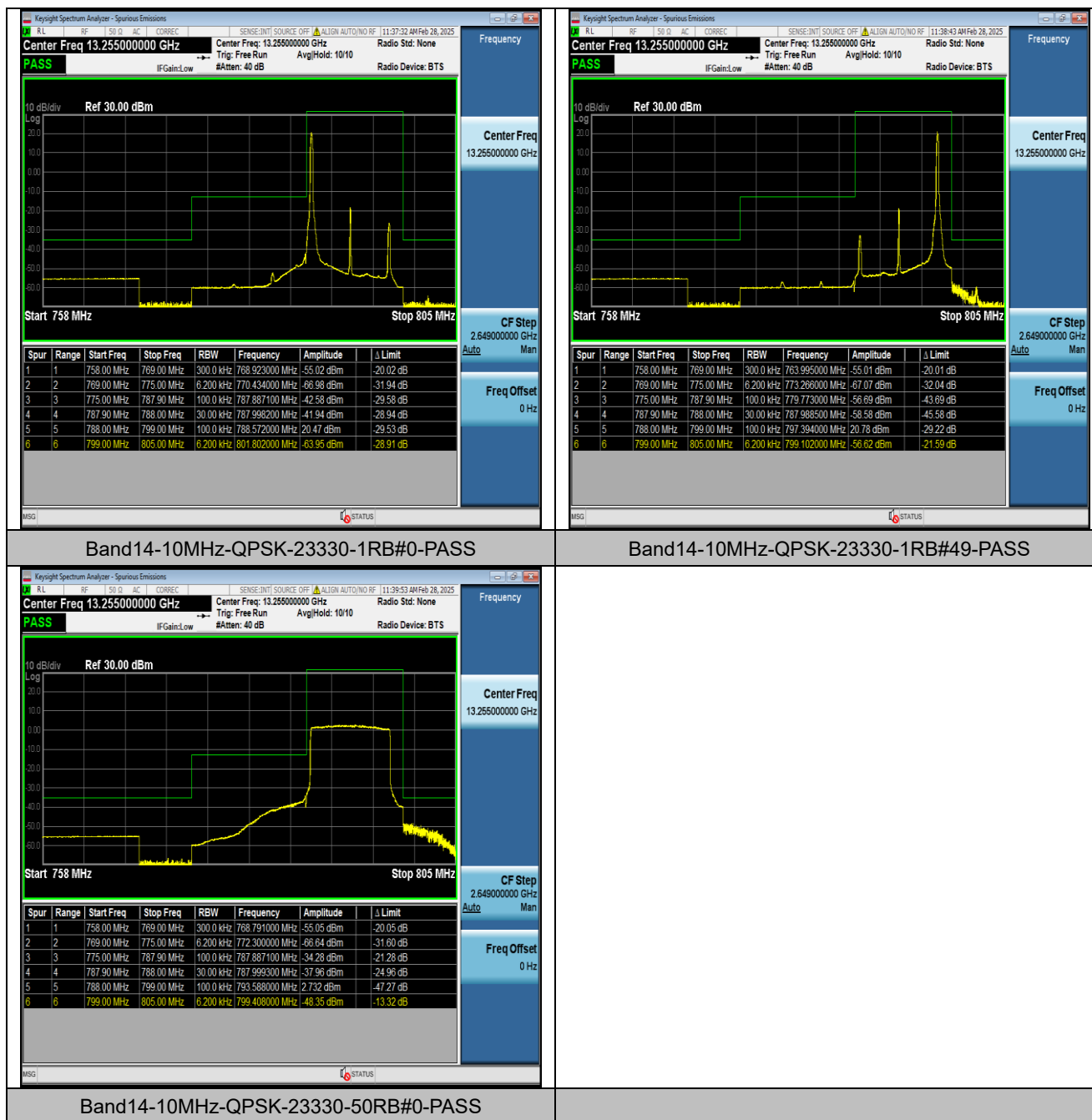




## Band Edge

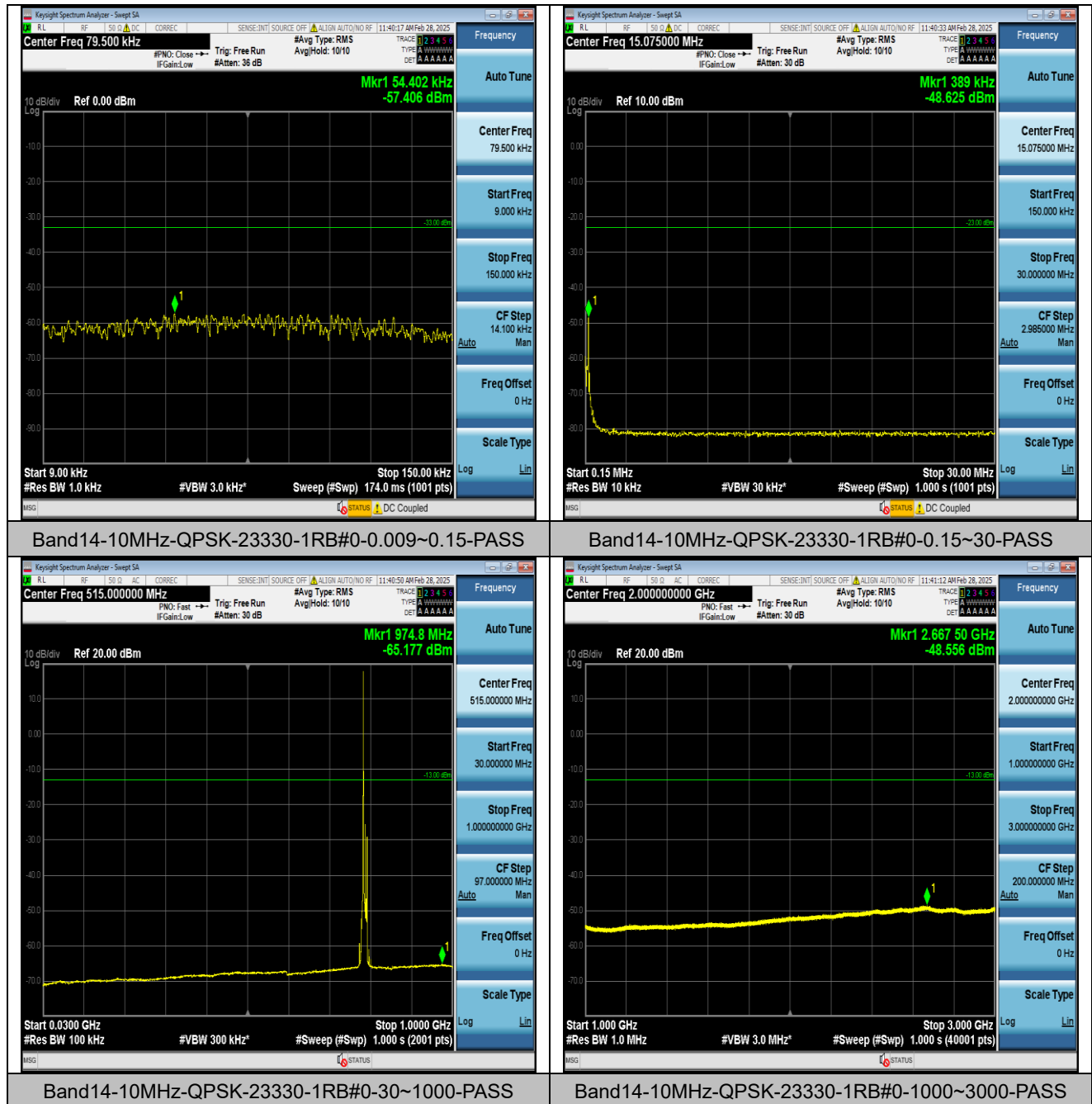
## Test Graphs

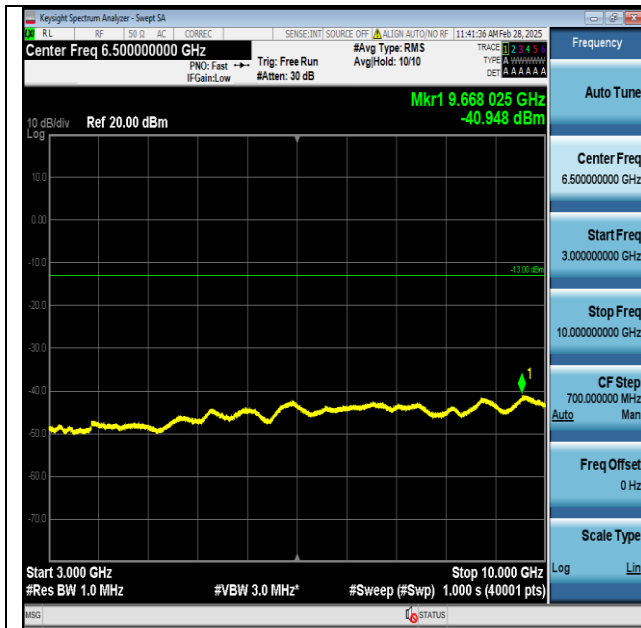




# Conducted Spurious Emission

## Test Graphs





Band14-10MHz-QPSK-23330-1RB#0-3000~10000-PASS

## Frequency Stability

### Test Result

| Voltage |           |            |         |              |               |                  |                |                 |         |
|---------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band    | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
| Band14  | 10MHz     | QPSK       | 23330   | 50RB#0       | VN            | NT               | 0.10           | 0.000126        | PASS    |
| Band14  | 10MHz     | QPSK       | 23330   | 50RB#0       | VL            | NT               | -0.40          | -0.000504       | PASS    |
| Band14  | 10MHz     | QPSK       | 23330   | 50RB#0       | VH            | NT               | -1.20          | -0.001513       | PASS    |

| Temperature |           |            |         |              |               |                  |                |                 |         |
|-------------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band        | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
| Band14      | 10MHz     | QPSK       | 23330   | 50RB#0       | NV            | -30              | -0.50          | -0.000631       | PASS    |
| Band14      | 10MHz     | QPSK       | 23330   | 50RB#0       | NV            | -20              | 0.70           | 0.000883        | PASS    |
| Band14      | 10MHz     | QPSK       | 23330   | 50RB#0       | NV            | -10              | 1.40           | 0.001765        | PASS    |
| Band14      | 10MHz     | QPSK       | 23330   | 50RB#0       | NV            | 0                | 0.00           | 0.000000        | PASS    |
| Band14      | 10MHz     | QPSK       | 23330   | 50RB#0       | NV            | 10               | -1.10          | -0.001387       | PASS    |
| Band14      | 10MHz     | QPSK       | 23330   | 50RB#0       | NV            | 20               | -2.40          | -0.003026       | PASS    |
| Band14      | 10MHz     | QPSK       | 23330   | 50RB#0       | NV            | 30               | -1.20          | -0.001513       | PASS    |
| Band14      | 10MHz     | QPSK       | 23330   | 50RB#0       | NV            | 40               | 1.10           | 0.001387        | PASS    |
| Band14      | 10MHz     | QPSK       | 23330   | 50RB#0       | NV            | 50               | -0.80          | -0.001009       | PASS    |

~The End~