

# Appendix-B LTE Band 17

## Effective Radiated Power Output Data

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result (dBm) | ERP (dBm) | Limit (dBm) | Verdict |
|--------|-----------|------------|---------|------------------|--------------|-----------|-------------|---------|
| Band17 | 5MHz      | QPSK       | 23755   | 1RB#0            | 24.39        | 23.82     | 34.77       | PASS    |
| Band17 | 5MHz      | QPSK       | 23755   | 25RB#0           | 23.62        | 23.05     | 34.77       | PASS    |
| Band17 | 5MHz      | QPSK       | 23755   | 1RB#12           | 23.94        | 23.37     | 34.77       | PASS    |
| Band17 | 5MHz      | QPSK       | 23755   | 1RB#24           | 23.6         | 23.03     | 34.77       | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 1RB#0            | 24.17        | 23.60     | 34.77       | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 25RB#0           | 23.5         | 22.93     | 34.77       | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 1RB#12           | 23.79        | 23.22     | 34.77       | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 1RB#24           | 23.65        | 23.08     | 34.77       | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 1RB#0            | 23.23        | 22.66     | 34.77       | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 25RB#0           | 23.56        | 22.99     | 34.77       | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 1RB#12           | 23.55        | 22.98     | 34.77       | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 1RB#24           | 23.6         | 23.03     | 34.77       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 1RB#0            | 23.76        | 23.19     | 34.77       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 25RB#0           | 22.74        | 22.17     | 34.77       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 1RB#12           | 23.37        | 22.80     | 34.77       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 1RB#24           | 23.05        | 22.48     | 34.77       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 1RB#0            | 23.5         | 22.93     | 34.77       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 25RB#0           | 22.54        | 21.97     | 34.77       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 1RB#12           | 23.15        | 22.58     | 34.77       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 1RB#24           | 22.94        | 22.37     | 34.77       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 1RB#0            | 22.59        | 22.02     | 34.77       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 25RB#0           | 22.53        | 21.96     | 34.77       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 1RB#12           | 22.84        | 22.27     | 34.77       | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 1RB#24           | 22.98        | 22.41     | 34.77       | PASS    |
| Band17 | 10MHz     | QPSK       | 23780   | 1RB#0            | 24.59        | 24.02     | 34.77       | PASS    |
| Band17 | 10MHz     | QPSK       | 23780   | 50RB#0           | 23.51        | 22.94     | 34.77       | PASS    |
| Band17 | 10MHz     | QPSK       | 23780   | 1RB#24           | 24.22        | 23.65     | 34.77       | PASS    |
| Band17 | 10MHz     | QPSK       | 23780   | 1RB#49           | 23.35        | 22.78     | 34.77       | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 1RB#0            | 24.32        | 23.75     | 34.77       | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 50RB#0           | 23.45        | 22.88     | 34.77       | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 1RB#24           | 24.11        | 23.54     | 34.77       | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 1RB#49           | 23.63        | 23.06     | 34.77       | PASS    |
| Band17 | 10MHz     | QPSK       | 23800   | 1RB#0            | 23.09        | 22.52     | 34.77       | PASS    |
| Band17 | 10MHz     | QPSK       | 23800   | 50RB#0           | 23.3         | 22.73     | 34.77       | PASS    |
| Band17 | 10MHz     | QPSK       | 23800   | 1RB#24           | 23.92        | 23.35     | 34.77       | PASS    |
| Band17 | 10MHz     | QPSK       | 23800   | 1RB#49           | 23.91        | 23.34     | 34.77       | PASS    |

|        |       |       |       |        |       |       |       |      |
|--------|-------|-------|-------|--------|-------|-------|-------|------|
| Band17 | 10MHz | 16QAM | 23780 | 1RB#0  | 23.81 | 23.24 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 27RB#0 | 22.51 | 21.94 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 1RB#24 | 23.52 | 22.95 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM | 23780 | 1RB#49 | 22.75 | 22.18 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 1RB#0  | 23.73 | 23.16 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 27RB#0 | 22.37 | 21.80 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 1RB#24 | 23.46 | 22.89 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM | 23790 | 1RB#49 | 22.93 | 22.36 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 1RB#0  | 22.32 | 21.75 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 27RB#0 | 22.39 | 21.82 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 1RB#24 | 23.2  | 22.63 | 34.77 | PASS |
| Band17 | 10MHz | 16QAM | 23800 | 1RB#49 | 23.26 | 22.69 | 34.77 | PASS |

## Peak-to-Average Ratio(CCDF)

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Result (dB) | Limit (dB) | Verdict |
|--------|-----------|------------|---------|------------------|-------------|------------|---------|
| Band17 | 10MHz     | QPSK       | 23780   | 50RB#0           | 5.23        | 13         | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 50RB#0           | 5.31        | 13         | PASS    |
| Band17 | 10MHz     | QPSK       | 23800   | 50RB#0           | 5.35        | 13         | PASS    |
| Band17 | 10MHz     | 16QAM      | 23780   | 27RB#0           | 5.57        | 13         | PASS    |
| Band17 | 10MHz     | 16QAM      | 23790   | 27RB#0           | 5.66        | 13         | PASS    |
| Band17 | 10MHz     | 16QAM      | 23800   | 27RB#0           | 5.79        | 13         | PASS    |

## Test Graphs

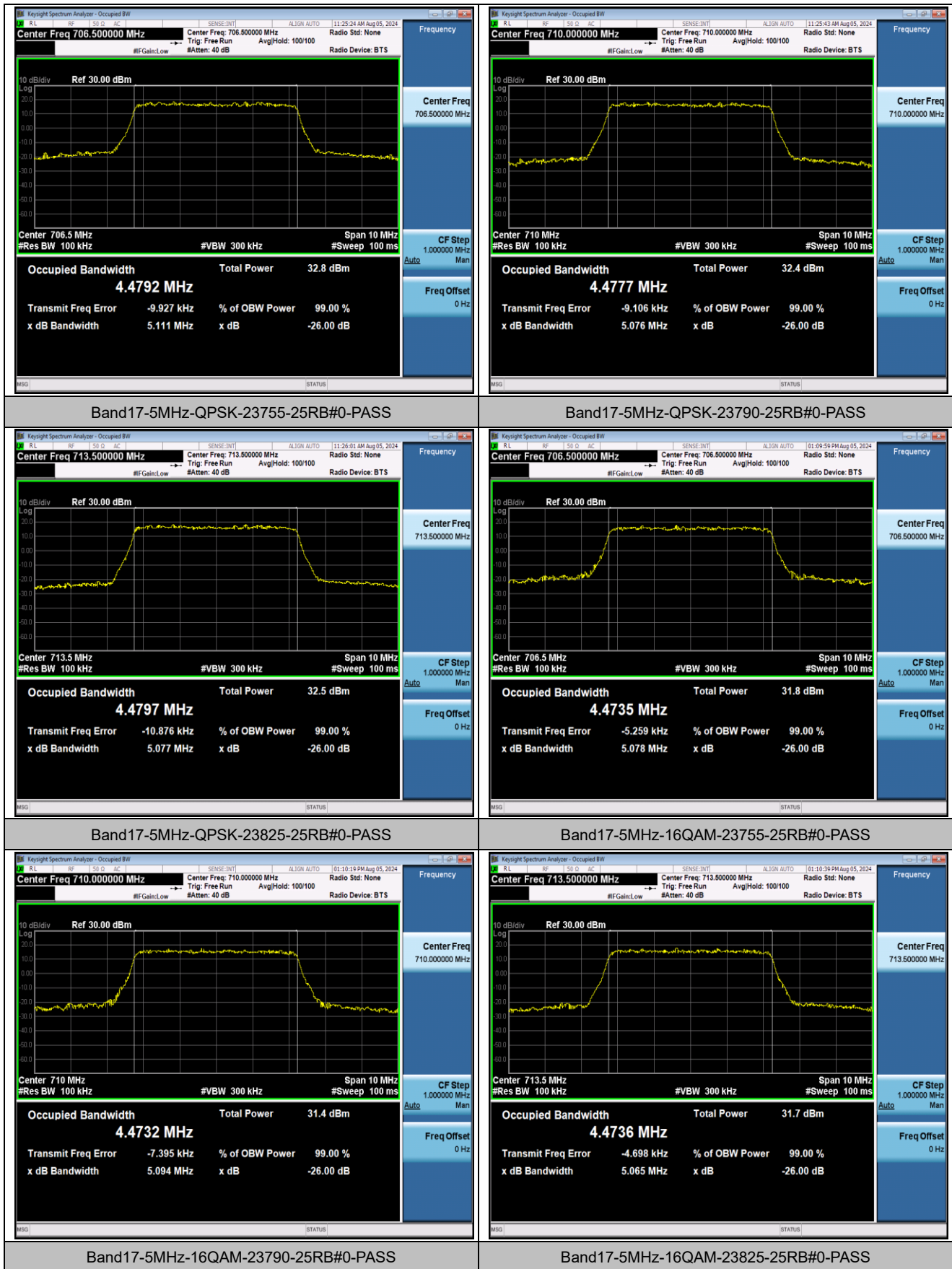


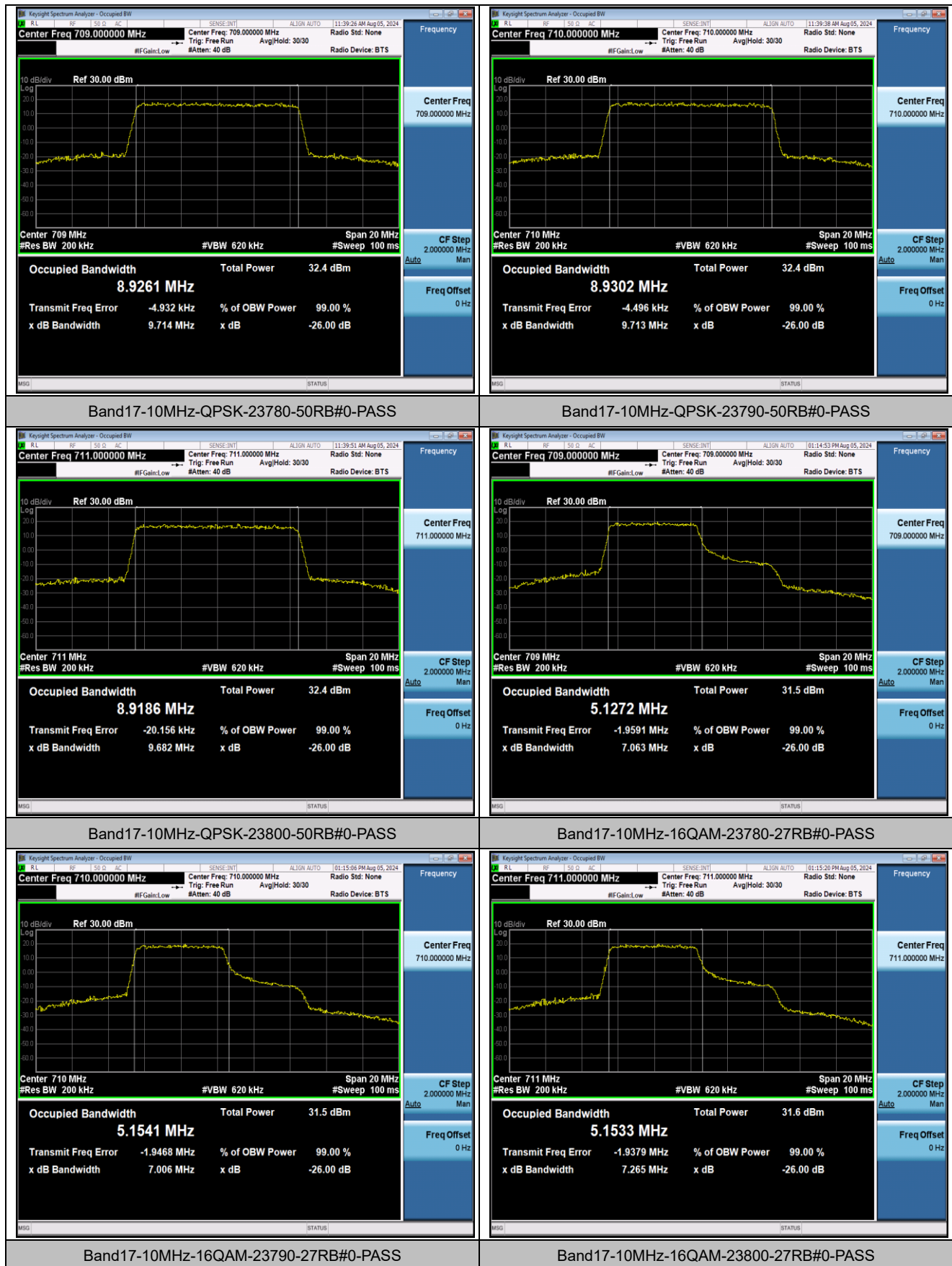
## 26dB Bandwidth and Occupied Bandwidth

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | OBW (MHz) | 26dB EBW (MHz) | Verdict |
|--------|-----------|------------|---------|------------------|-----------|----------------|---------|
| Band17 | 5MHz      | QPSK       | 23755   | 25RB#0           | 4.4792    | 5.111          | PASS    |
| Band17 | 5MHz      | QPSK       | 23790   | 25RB#0           | 4.4777    | 5.076          | PASS    |
| Band17 | 5MHz      | QPSK       | 23825   | 25RB#0           | 4.4797    | 5.077          | PASS    |
| Band17 | 5MHz      | 16QAM      | 23755   | 25RB#0           | 4.4735    | 5.078          | PASS    |
| Band17 | 5MHz      | 16QAM      | 23790   | 25RB#0           | 4.4732    | 5.094          | PASS    |
| Band17 | 5MHz      | 16QAM      | 23825   | 25RB#0           | 4.4736    | 5.065          | PASS    |
| Band17 | 10MHz     | QPSK       | 23780   | 50RB#0           | 8.9261    | 9.714          | PASS    |
| Band17 | 10MHz     | QPSK       | 23790   | 50RB#0           | 8.9302    | 9.713          | PASS    |
| Band17 | 10MHz     | QPSK       | 23800   | 50RB#0           | 8.9186    | 9.682          | PASS    |
| Band17 | 10MHz     | 16QAM      | 23780   | 27RB#0           | 5.1272    | 7.063          | PASS    |
| Band17 | 10MHz     | 16QAM      | 23790   | 27RB#0           | 5.1541    | 7.006          | PASS    |
| Band17 | 10MHz     | 16QAM      | 23800   | 27RB#0           | 5.1533    | 7.265          | PASS    |

## Test Graphs

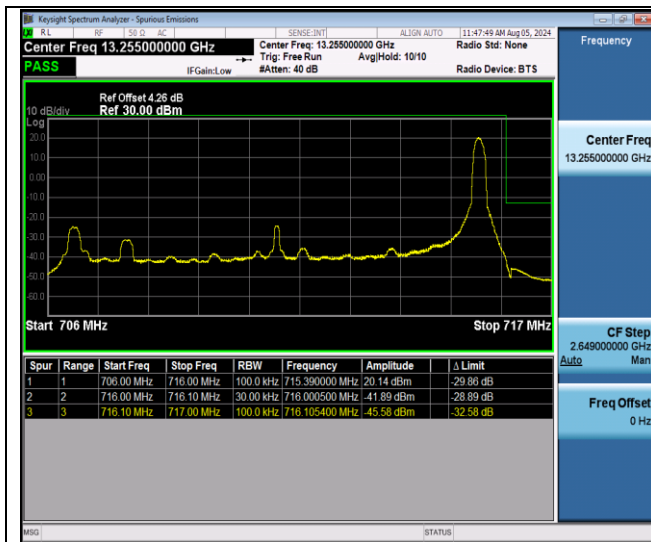




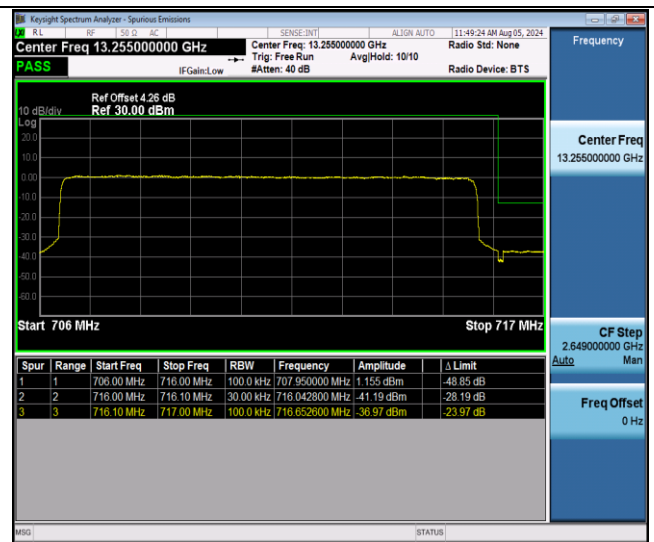
## Band Edge

## Test Graphs





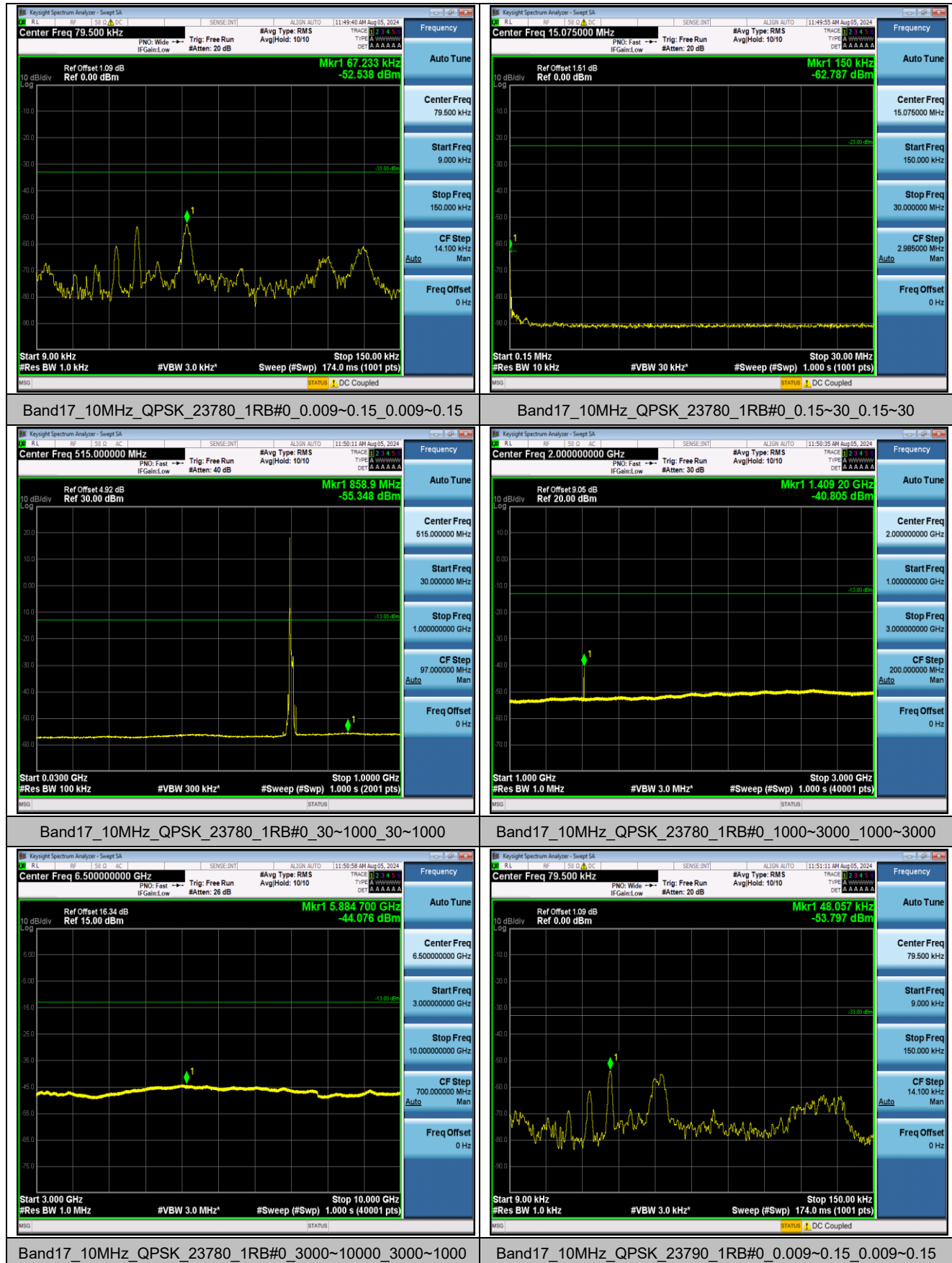
Band17\_10MHz\_QPSK\_23800\_1RB#49

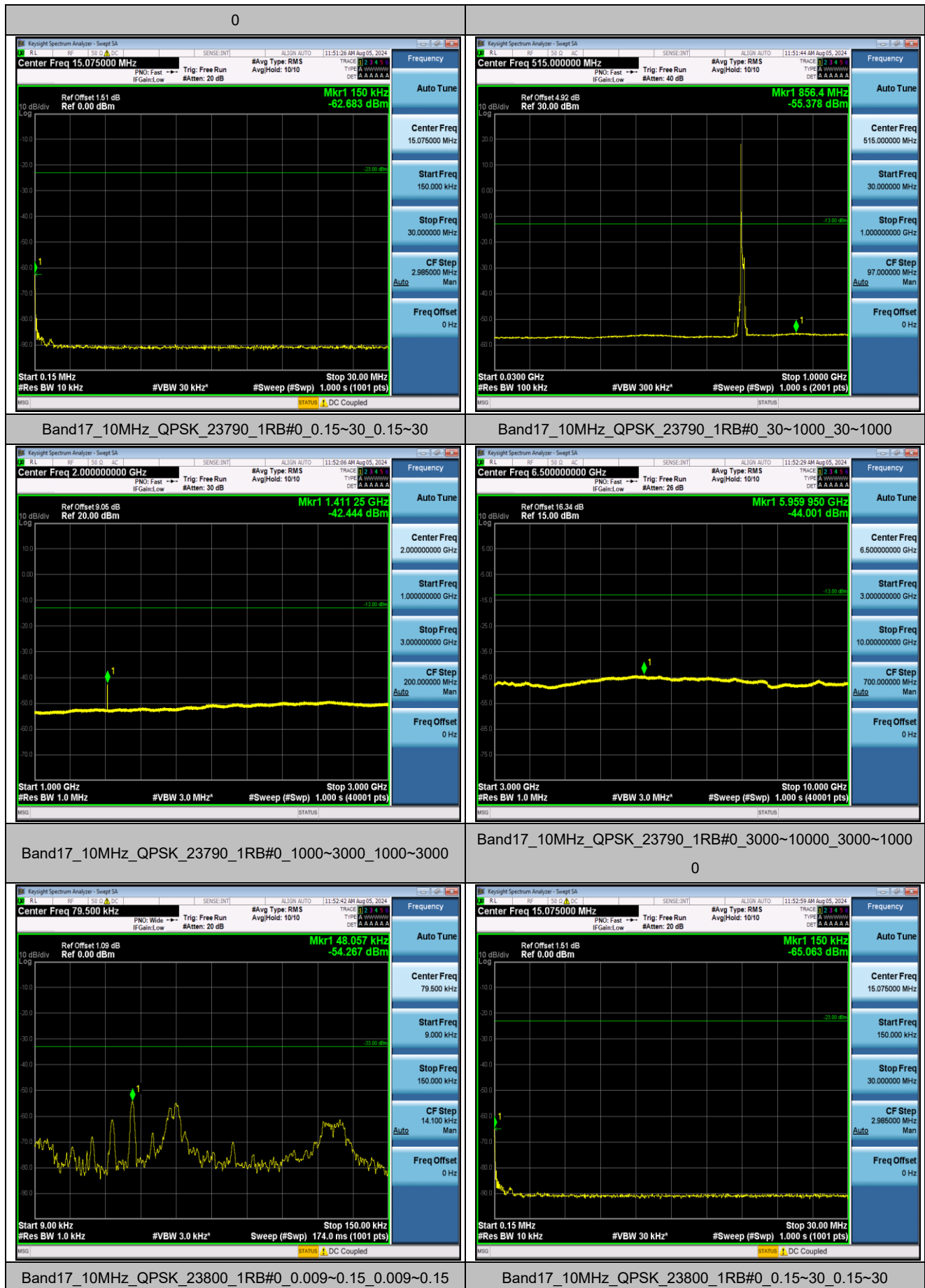


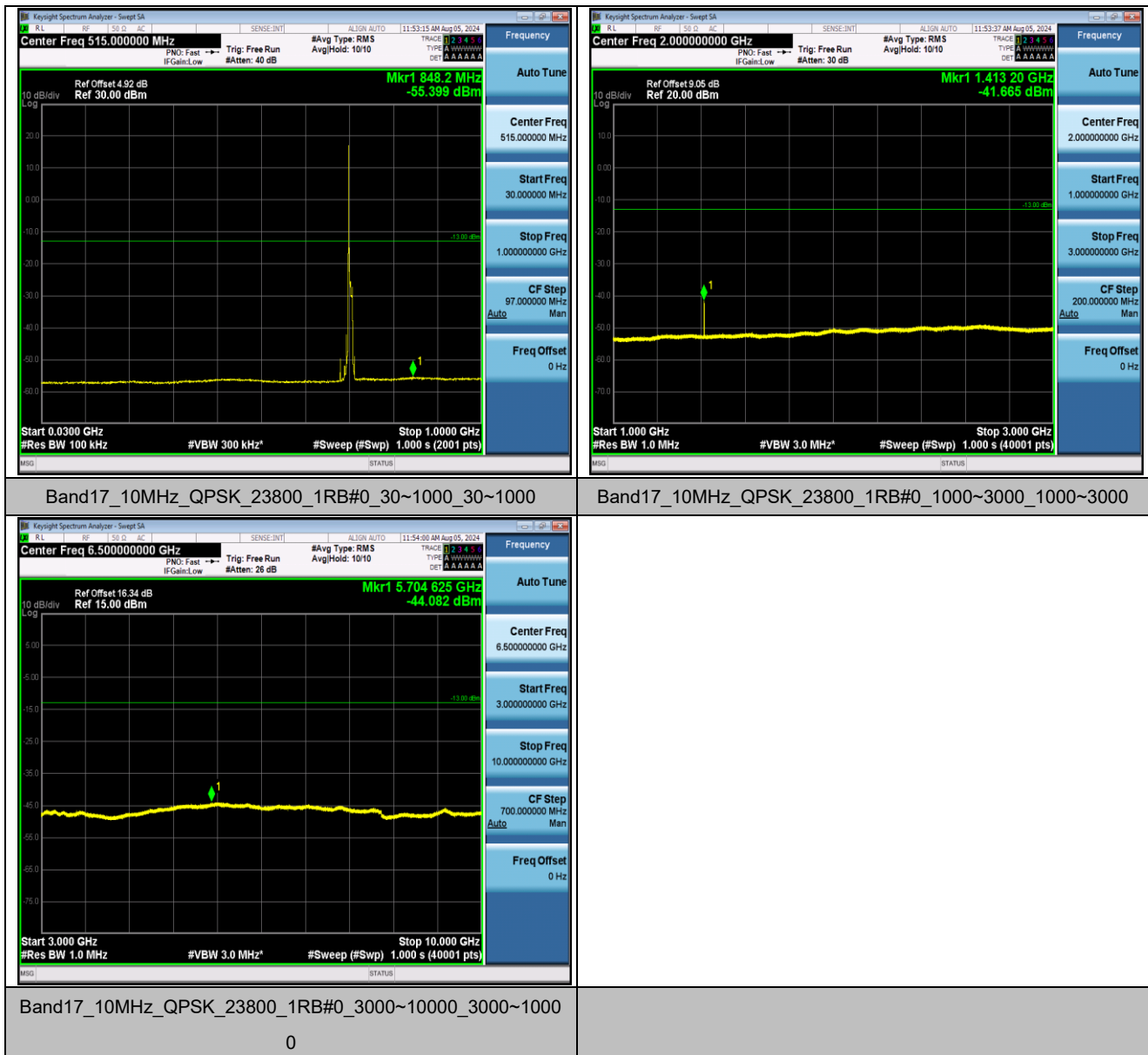
Band17\_10MHz\_QPSK\_23800\_50RB#0

# Conducted Spurious Emission

## Test Graphs







## Frequency Stability

### Test Result

| Voltage |           |            |         |              |               |                  |                |                 |         |
|---------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band    | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
| Band17  | 10MHz     | QPSK       | 23790   | 50RB#0       | VN            | NT               | -2.03          | -0.002859       | PASS    |
| Band17  | 10MHz     | QPSK       | 23790   | 50RB#0       | VL            | NT               | -8.71          | -0.012268       | PASS    |
| Band17  | 10MHz     | QPSK       | 23790   | 50RB#0       | VH            | NT               | -8.11          | -0.011423       | PASS    |

| Temperature |           |            |         |              |               |                  |                |                 |         |
|-------------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|---------|
| Band        | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Verdict |
| Band17      | 10MHz     | QPSK       | 23790   | 50RB#0       | NV            | -30              | -10.40         | -0.014648       | PASS    |
| Band17      | 10MHz     | QPSK       | 23790   | 50RB#0       | NV            | -20              | -10.03         | -0.014127       | PASS    |
| Band17      | 10MHz     | QPSK       | 23790   | 50RB#0       | NV            | -10              | -3.00          | -0.004225       | PASS    |
| Band17      | 10MHz     | QPSK       | 23790   | 50RB#0       | NV            | 0                | -8.48          | -0.011944       | PASS    |
| Band17      | 10MHz     | QPSK       | 23790   | 50RB#0       | NV            | 10               | -7.67          | -0.010803       | PASS    |
| Band17      | 10MHz     | QPSK       | 23790   | 50RB#0       | NV            | 20               | -10.53         | -0.014831       | PASS    |
| Band17      | 10MHz     | QPSK       | 23790   | 50RB#0       | NV            | 30               | -7.57          | -0.010662       | PASS    |
| Band17      | 10MHz     | QPSK       | 23790   | 50RB#0       | NV            | 40               | -3.85          | -0.005423       | PASS    |
| Band17      | 10MHz     | QPSK       | 23790   | 50RB#0       | NV            | 50               | -8.94          | -0.012592       | PASS    |