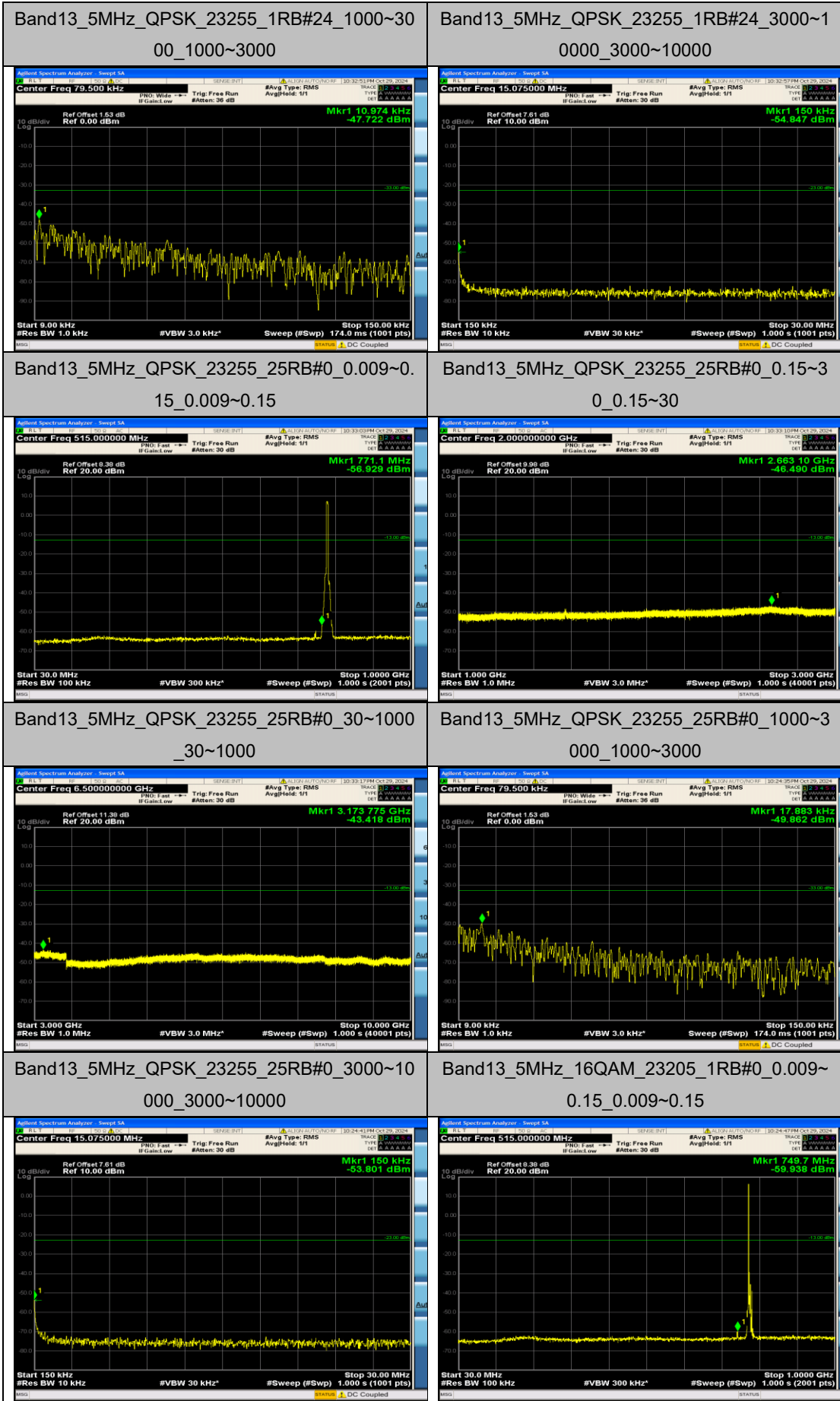
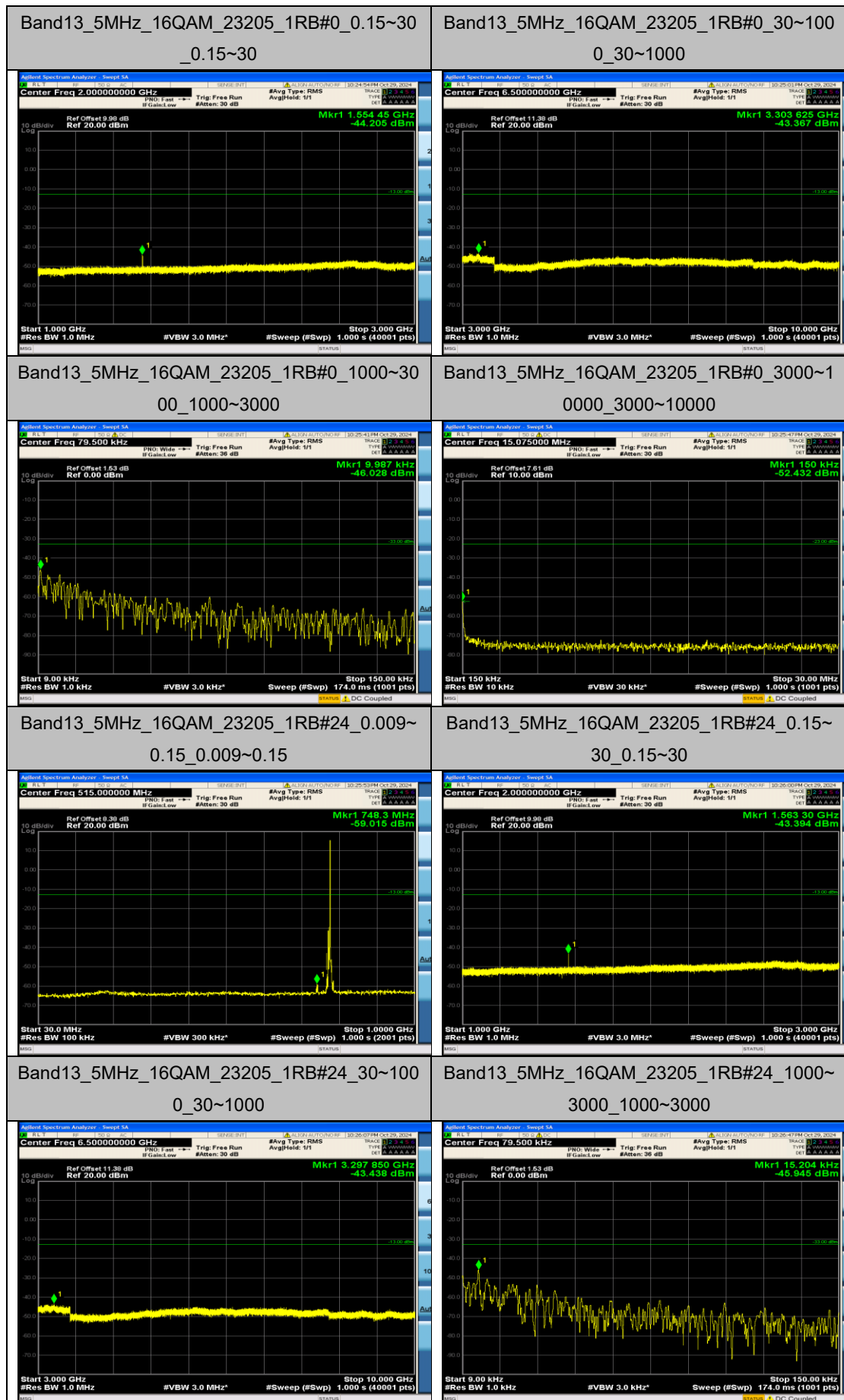
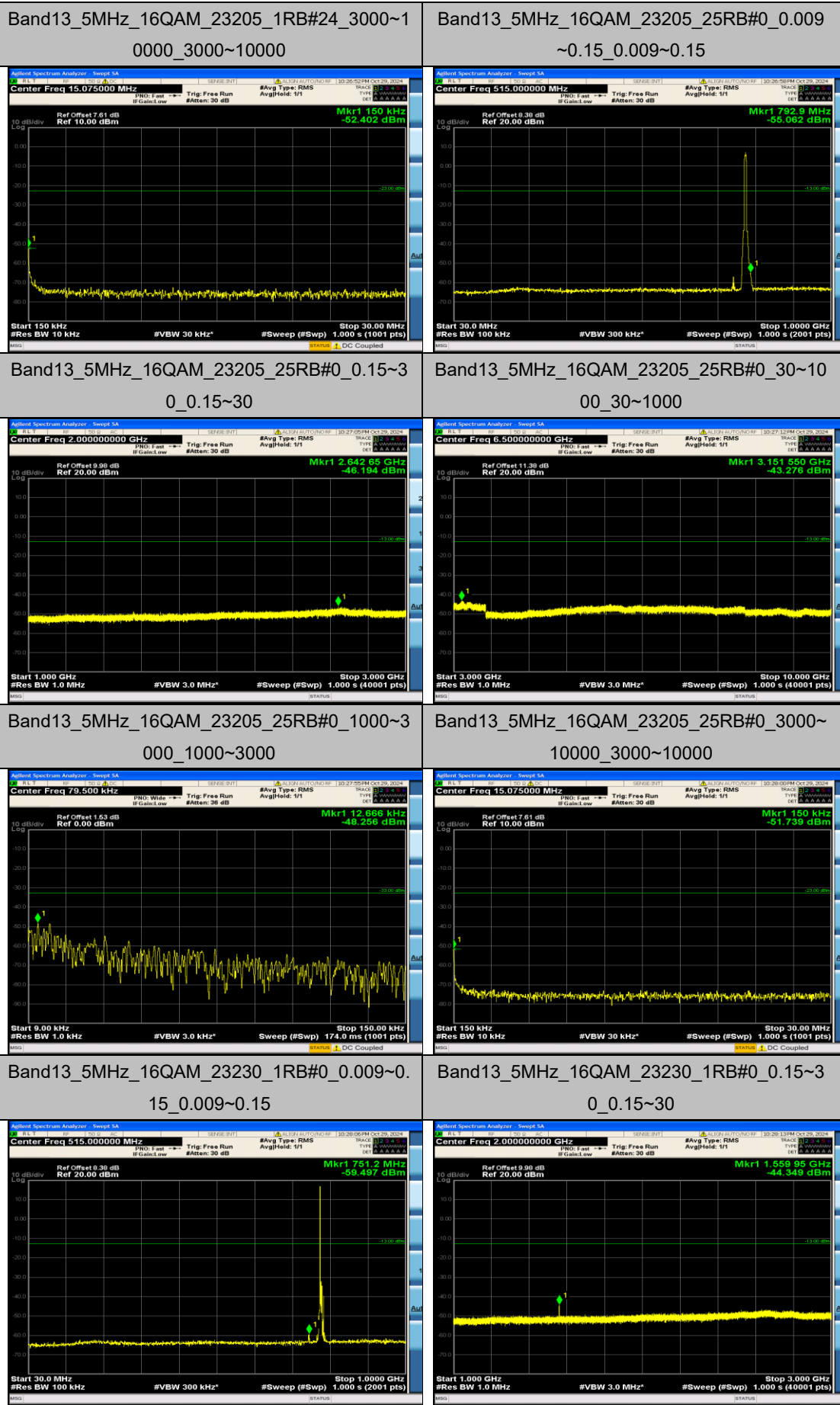
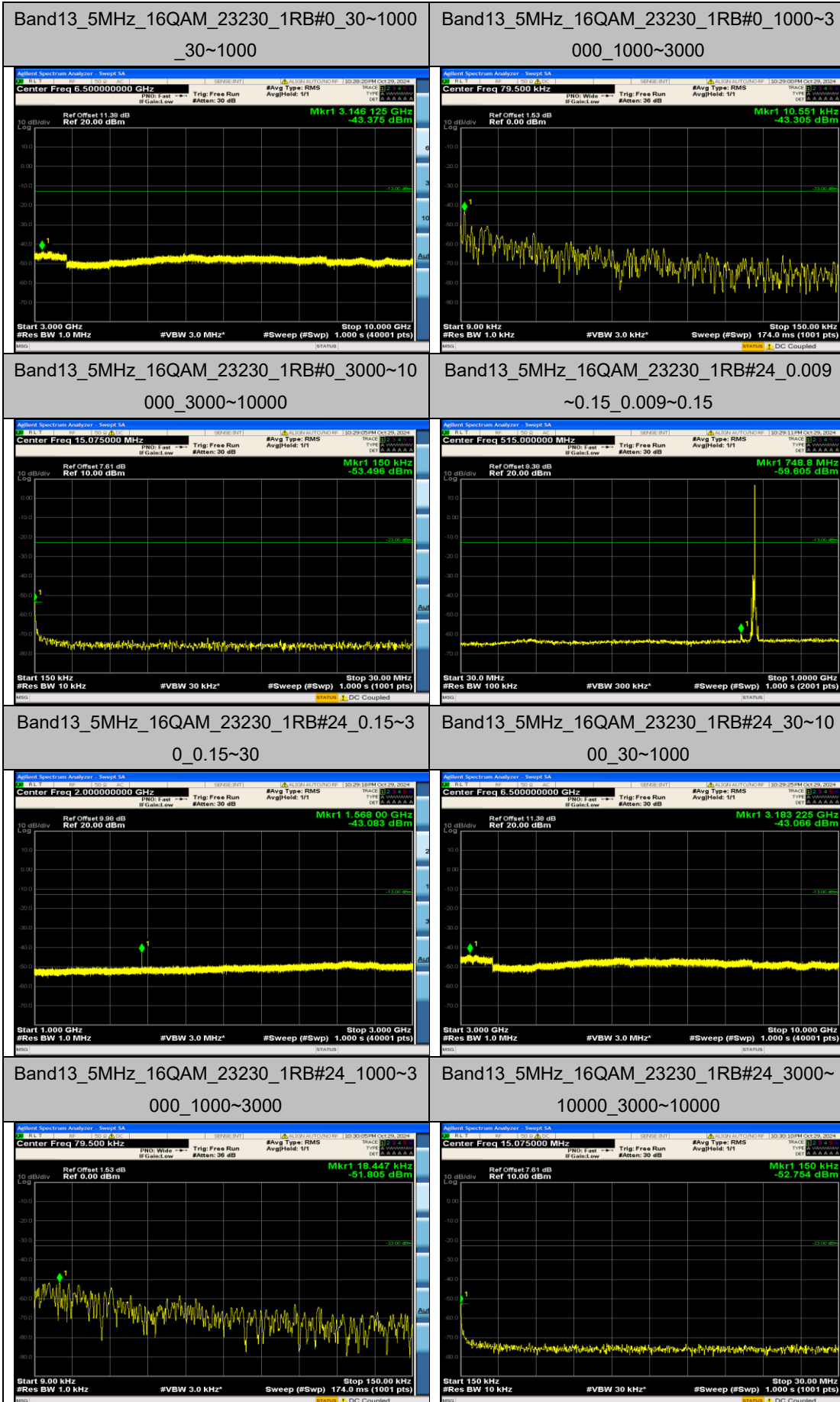
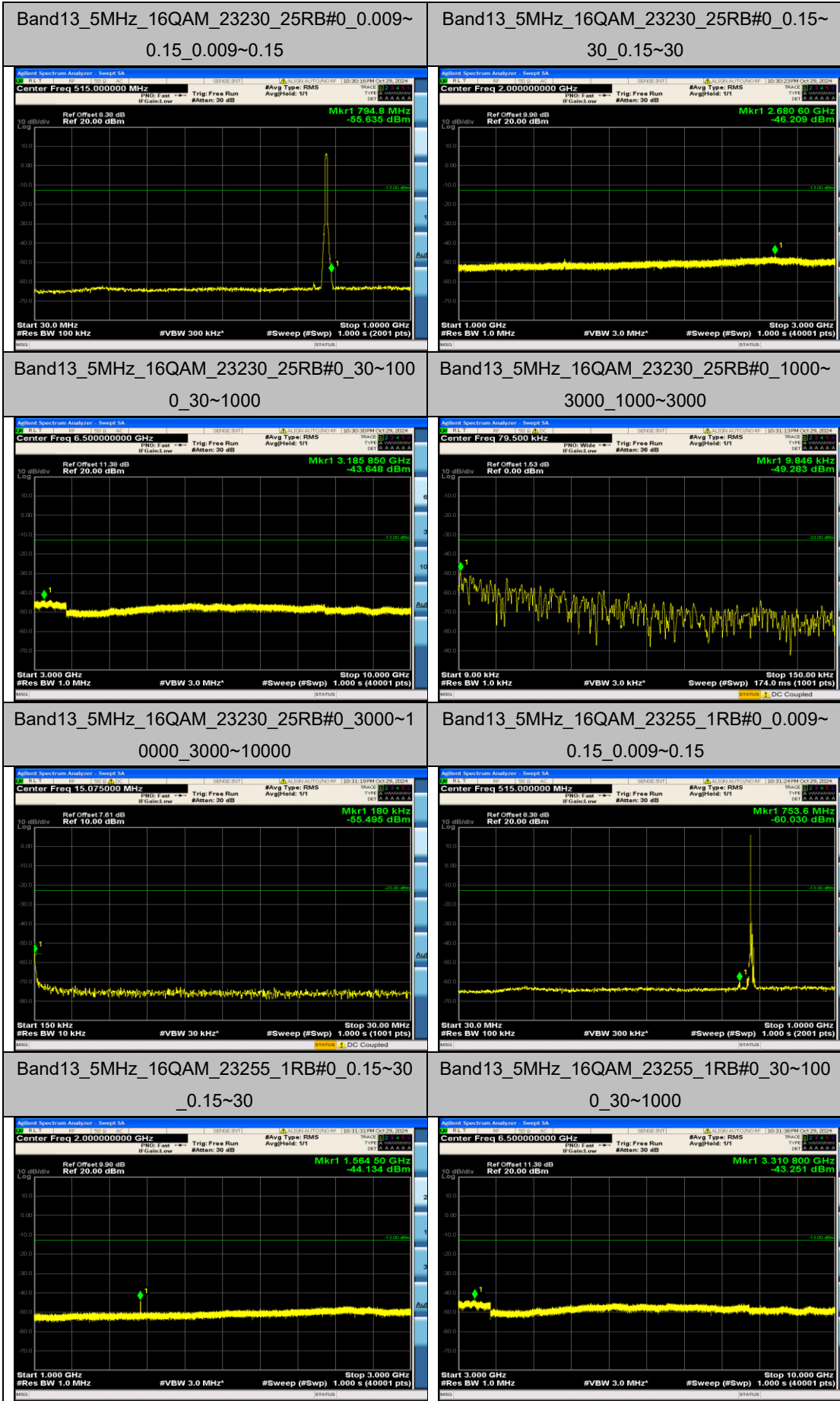


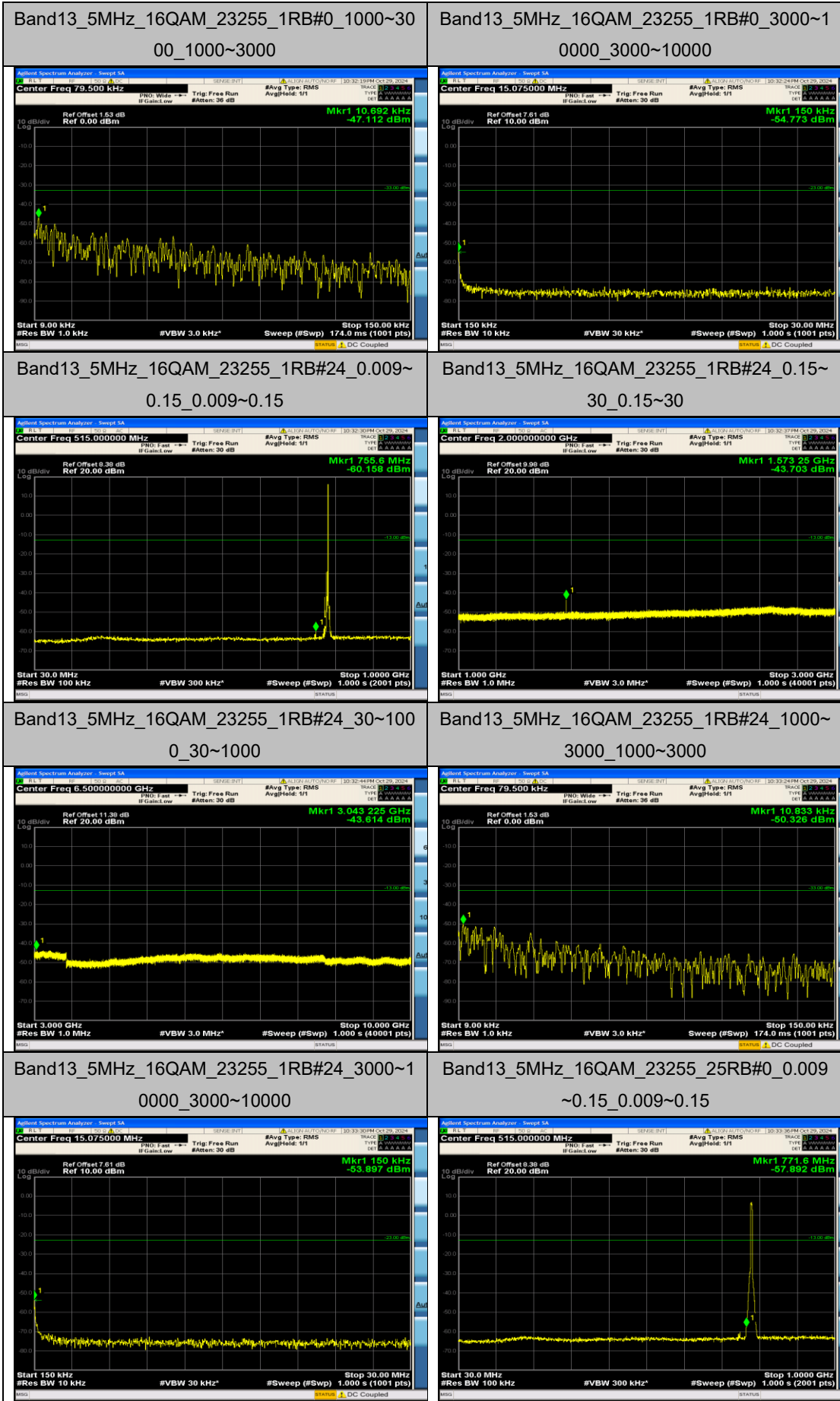


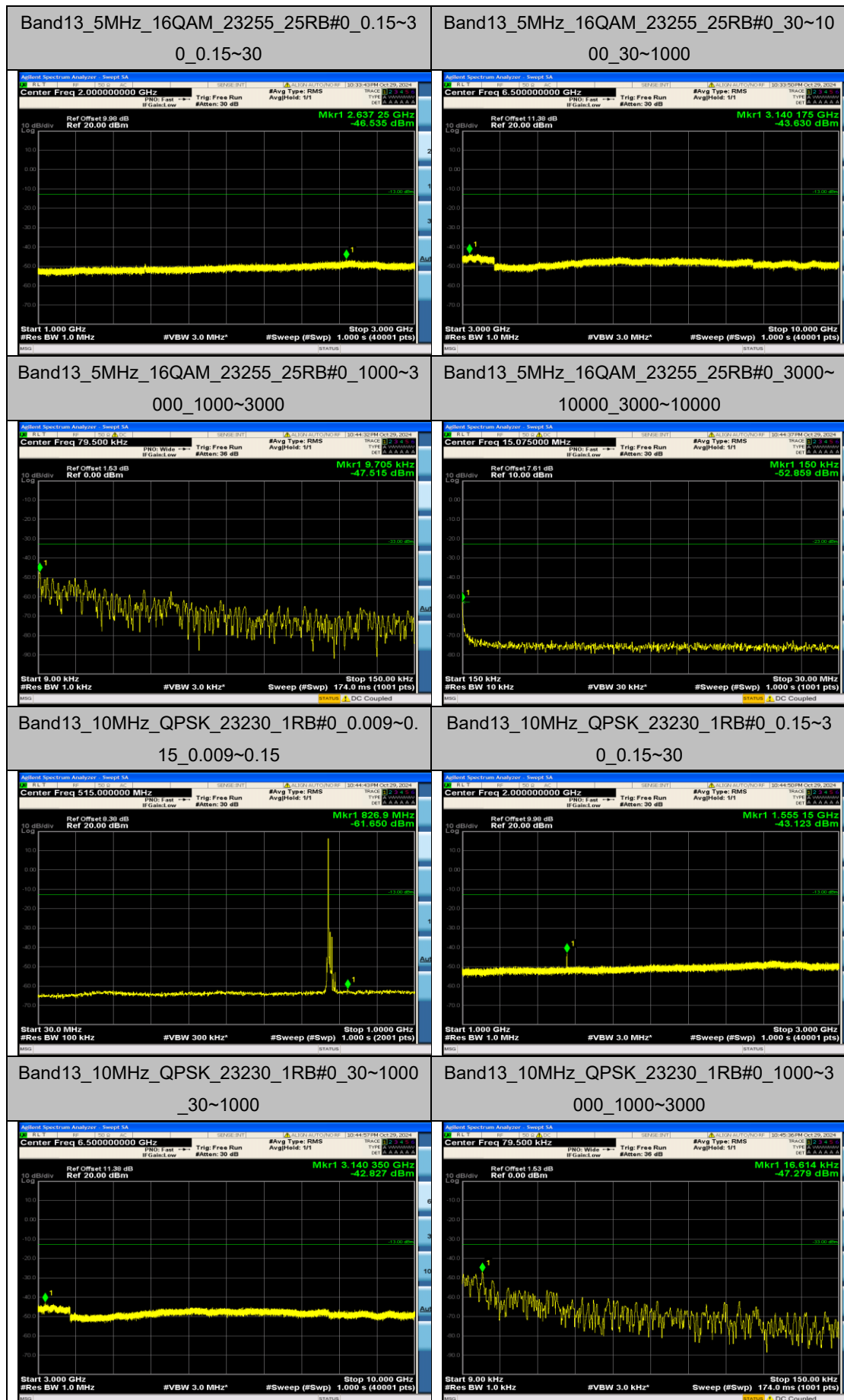


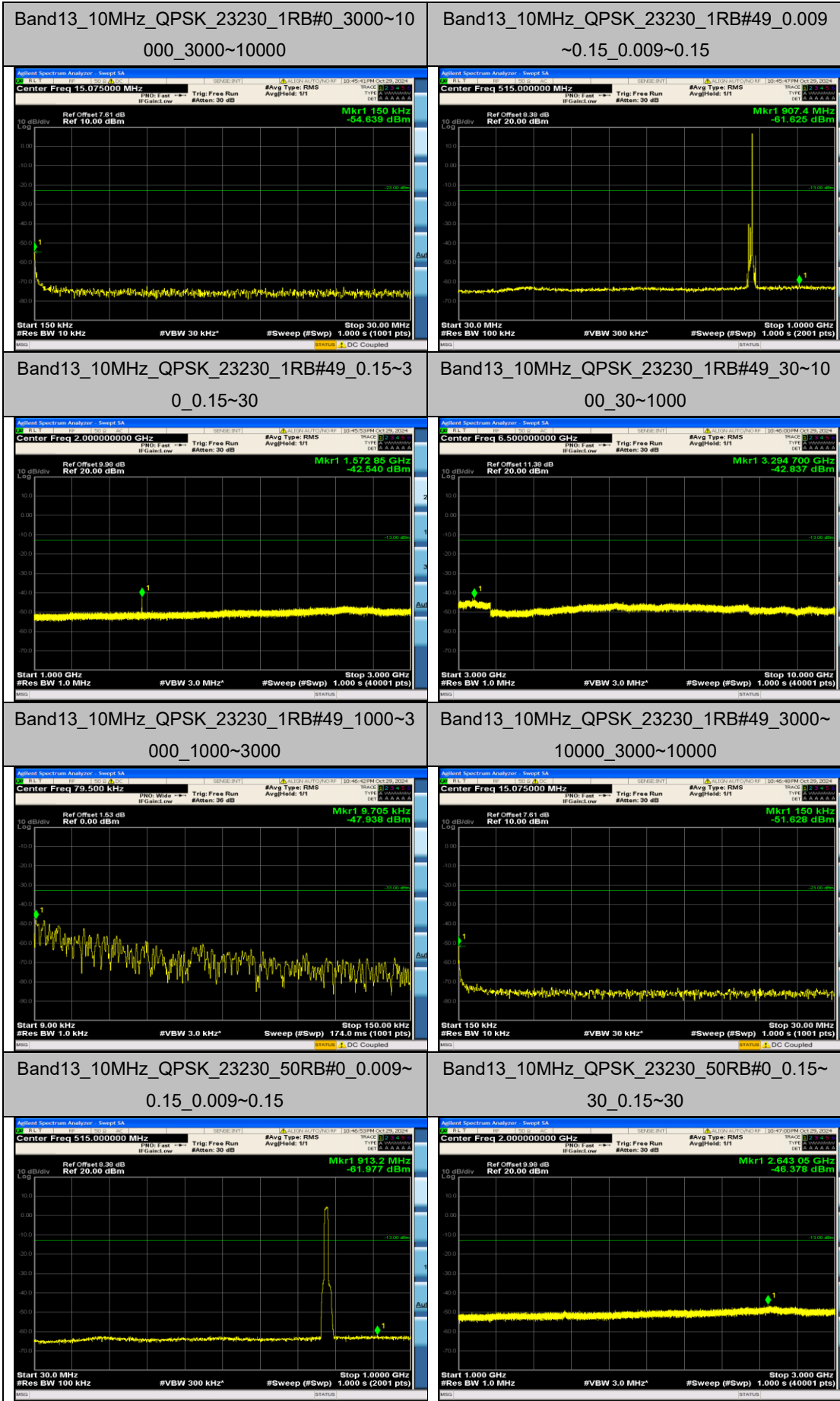




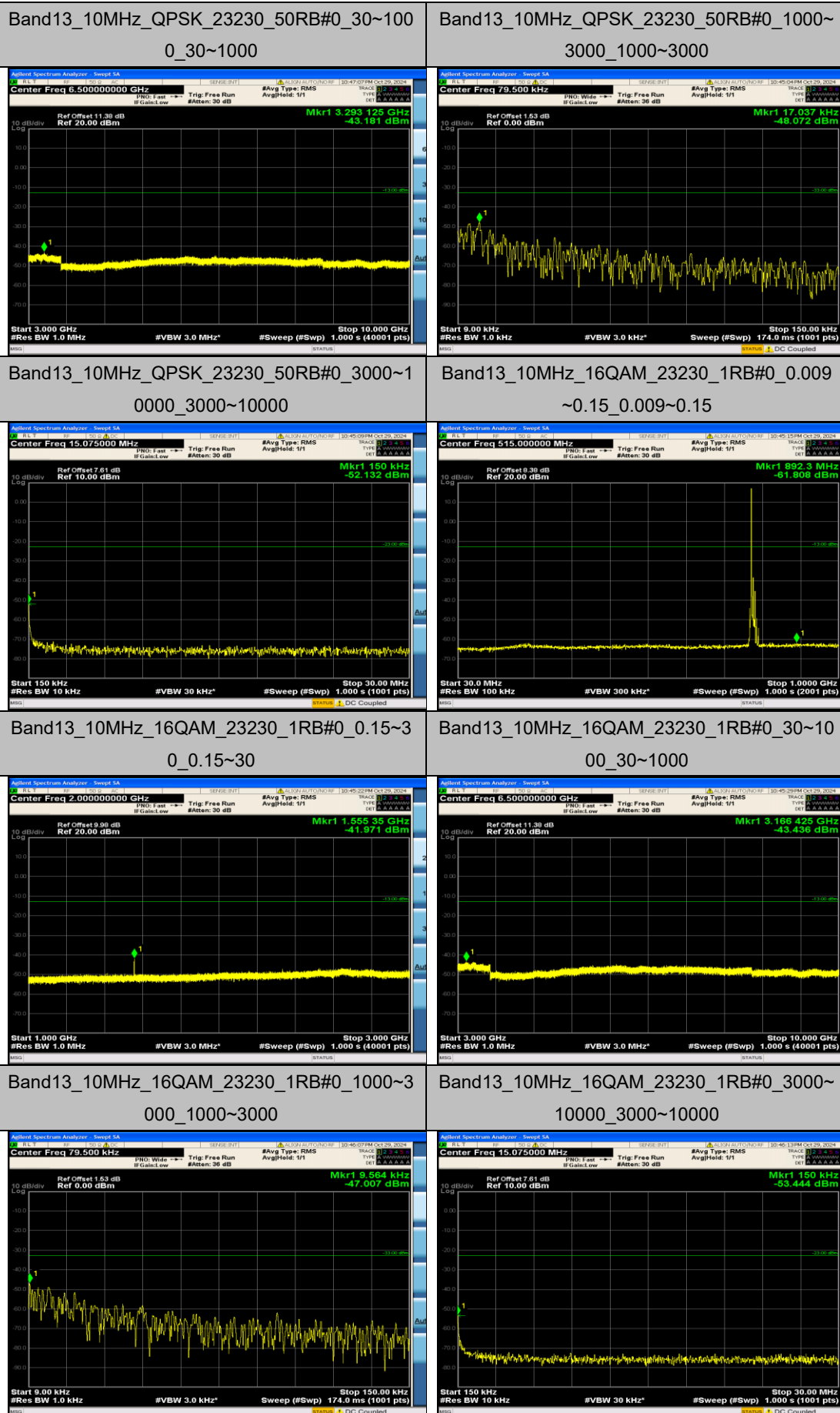


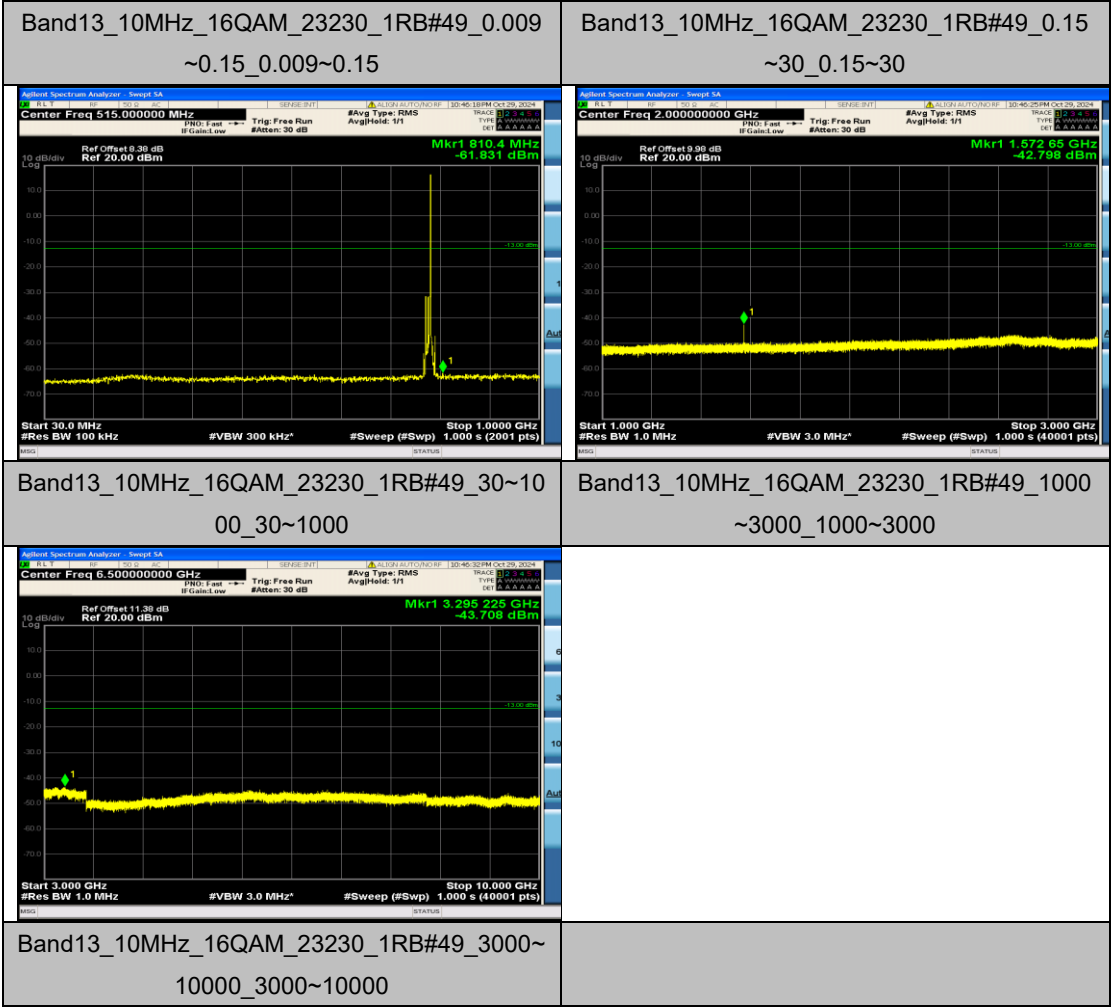












## Appendix F: Frequency Stability

### Test Result

| Voltage  |           |            |         |              |               |                  |                |                 |             |         |
|----------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band     | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| BandName | Bandwidth | Modulation | Channel | RBcfg        | VolValue      | TempValue        | ValueHz        | ValuePpm        | Limit       | Verdict |

| Temperature |           |            |         |              |               |                  |                |                 |             |         |
|-------------|-----------|------------|---------|--------------|---------------|------------------|----------------|-----------------|-------------|---------|
| Band        | Bandwidth | Modulation | Channel | RB Configure | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band13      | 5MHz      | QPSK       | 23205   | 25RB#0       | NV            | -30              | 1.57           | 0.002014        | ±2.5        | PASS    |
| Band13      | 5MHz      | QPSK       | 23205   | 25RB#0       | NV            | -20              | 3.20           | 0.004105        | ±2.5        | PASS    |
| Band13      | 5MHz      | QPSK       | 23205   | 25RB#0       | NV            | -10              | 3.40           | 0.004362        | ±2.5        | PASS    |
| Band13      | 5MHz      | QPSK       | 23205   | 25RB#0       | NV            | 0                | 4.02           | 0.005157        | ±2.5        | PASS    |
| Band13      | 5MHz      | QPSK       | 23205   | 25RB#0       | NV            | 10               | 1.53           | 0.001963        | ±2.5        | PASS    |
| Band13      | 5MHz      | QPSK       | 23205   | 25RB#0       | NV            | 20               | 3.26           | 0.004182        | ±2.5        | PASS    |
| Band13      | 5MHz      | QPSK       | 23205   | 25RB#0       | NV            | 30               | 2.49           | 0.003194        | ±2.5        | PASS    |
| Band13      | 5MHz      | QPSK       | 23205   | 25RB#0       | NV            | 40               | 2.73           | 0.003502        | ±2.5        | PASS    |
| Band13      | 5MHz      | QPSK       | 23205   | 25RB#0       | NV            | 50               | -4.51          | -0.005786       | ±2.5        | PASS    |
| Band13      | 5MHz      | QPSK       | 23230   | 25RB#0       | NV            | -30              | -2.45          | -0.003133       | ±2.5        | PASS    |
| Band13      | 5MHz      | QPSK       | 23230   | 25RB#0       | NV            | -20              | 2.62           | 0.003350        | ±2.5        | PASS    |
| Band13      | 5MHz      | QPSK       | 23230   | 25RB#0       | NV            | -10              | 2.66           | 0.003402        | ±2.5        | PASS    |
| Band13      | 5MHz      | QPSK       | 23230   | 25RB#0       | NV            | 0                | 2.57           | 0.003286        | ±2.5        | PASS    |
| Band13      | 5MHz      | QPSK       | 23230   | 25RB#0       | NV            | 10               | 1.83           | 0.002340        | ±2.5        | PASS    |
| Band13      | 5MHz      | QPSK       | 23230   | 25RB#0       | NV            | 20               | 2.72           | 0.003478        | ±2.5        | PASS    |
| Band13      | 5MHz      | QPSK       | 23230   | 25RB#0       | NV            | 30               | 4.01           | 0.005128        | ±2.5        | PASS    |
| Band13      | 5MHz      | QPSK       | 23230   | 25RB#0       | NV            | 40               | 1.34           | 0.001714        | ±2.5        | PASS    |
| Band13      | 5MHz      | QPSK       | 23230   | 25RB#0       | NV            | 50               | 1.59           | 0.002033        | ±2.5        | PASS    |
| Band13      | 5MHz      | QPSK       | 23255   | 25RB#0       | NV            | -30              | 3.38           | 0.004308        | ±2.5        | PASS    |
| Band13      | 5MHz      | QPSK       | 23255   | 25RB#0       | NV            | -20              | 3.46           | 0.004410        | ±2.5        | PASS    |
| Band13      | 5MHz      | QPSK       | 23255   | 25RB#0       | NV            | -10              | 2.96           | 0.003773        | ±2.5        | PASS    |
| Band13      | 5MHz      | QPSK       | 23255   | 25RB#0       | NV            | 0                | 2.85           | 0.003633        | ±2.5        | PASS    |
| Band13      | 5MHz      | QPSK       | 23255   | 25RB#0       | NV            | 10               | 4.08           | 0.005201        | ±2.5        | PASS    |
| Band13      | 5MHz      | QPSK       | 23255   | 25RB#0       | NV            | 20               | 3.76           | 0.004793        | ±2.5        | PASS    |
| Band13      | 5MHz      | QPSK       | 23255   | 25RB#0       | NV            | 30               | 3.96           | 0.005048        | ±2.5        | PASS    |
| Band13      | 5MHz      | QPSK       | 23255   | 25RB#0       | NV            | 40               | 4.22           | 0.005379        | ±2.5        | PASS    |
| Band13      | 5MHz      | QPSK       | 23255   | 25RB#0       | NV            | 50               | 3.88           | 0.004946        | ±2.5        | PASS    |
| Band13      | 5MHz      | 16QAM      | 23205   | 25RB#0       | NV            | -30              | -2.20          | -0.002822       | ±2.5        | PASS    |

|        |       |       |       |        |    |     |       |           |      |      |
|--------|-------|-------|-------|--------|----|-----|-------|-----------|------|------|
| Band13 | 5MHz  | 16QAM | 23205 | 25RB#0 | NV | -20 | -2.00 | -0.002566 | ±2.5 | PASS |
| Band13 | 5MHz  | 16QAM | 23205 | 25RB#0 | NV | -10 | -2.78 | -0.003566 | ±2.5 | PASS |
| Band13 | 5MHz  | 16QAM | 23205 | 25RB#0 | NV | 0   | 3.30  | 0.004233  | ±2.5 | PASS |
| Band13 | 5MHz  | 16QAM | 23205 | 25RB#0 | NV | 10  | 2.30  | 0.002951  | ±2.5 | PASS |
| Band13 | 5MHz  | 16QAM | 23205 | 25RB#0 | NV | 20  | 1.32  | 0.001693  | ±2.5 | PASS |
| Band13 | 5MHz  | 16QAM | 23205 | 25RB#0 | NV | 30  | 1.40  | 0.001796  | ±2.5 | PASS |
| Band13 | 5MHz  | 16QAM | 23205 | 25RB#0 | NV | 40  | 2.37  | 0.003040  | ±2.5 | PASS |
| Band13 | 5MHz  | 16QAM | 23205 | 25RB#0 | NV | 50  | -3.00 | -0.003849 | ±2.5 | PASS |
| Band13 | 5MHz  | 16QAM | 23230 | 25RB#0 | NV | -30 | 2.53  | 0.003235  | ±2.5 | PASS |
| Band13 | 5MHz  | 16QAM | 23230 | 25RB#0 | NV | -20 | 2.09  | 0.002673  | ±2.5 | PASS |
| Band13 | 5MHz  | 16QAM | 23230 | 25RB#0 | NV | -10 | 1.83  | 0.002340  | ±2.5 | PASS |
| Band13 | 5MHz  | 16QAM | 23230 | 25RB#0 | NV | 0   | 1.96  | 0.002506  | ±2.5 | PASS |
| Band13 | 5MHz  | 16QAM | 23230 | 25RB#0 | NV | 10  | 2.19  | 0.002801  | ±2.5 | PASS |
| Band13 | 5MHz  | 16QAM | 23230 | 25RB#0 | NV | 20  | 1.87  | 0.002391  | ±2.5 | PASS |
| Band13 | 5MHz  | 16QAM | 23230 | 25RB#0 | NV | 30  | 3.33  | 0.004258  | ±2.5 | PASS |
| Band13 | 5MHz  | 16QAM | 23230 | 25RB#0 | NV | 40  | 3.91  | 0.005000  | ±2.5 | PASS |
| Band13 | 5MHz  | 16QAM | 23230 | 25RB#0 | NV | 50  | 4.32  | 0.005524  | ±2.5 | PASS |
| Band13 | 5MHz  | 16QAM | 23255 | 25RB#0 | NV | -30 | 4.45  | 0.005672  | ±2.5 | PASS |
| Band13 | 5MHz  | 16QAM | 23255 | 25RB#0 | NV | -20 | 4.38  | 0.005583  | ±2.5 | PASS |
| Band13 | 5MHz  | 16QAM | 23255 | 25RB#0 | NV | -10 | 3.25  | 0.004143  | ±2.5 | PASS |
| Band13 | 5MHz  | 16QAM | 23255 | 25RB#0 | NV | 0   | 4.19  | 0.005341  | ±2.5 | PASS |
| Band13 | 5MHz  | 16QAM | 23255 | 25RB#0 | NV | 10  | 4.22  | 0.005379  | ±2.5 | PASS |
| Band13 | 5MHz  | 16QAM | 23255 | 25RB#0 | NV | 20  | 4.21  | 0.005366  | ±2.5 | PASS |
| Band13 | 5MHz  | 16QAM | 23255 | 25RB#0 | NV | 30  | 2.86  | 0.003646  | ±2.5 | PASS |
| Band13 | 5MHz  | 16QAM | 23255 | 25RB#0 | NV | 40  | 3.95  | 0.005035  | ±2.5 | PASS |
| Band13 | 5MHz  | 16QAM | 23255 | 25RB#0 | NV | 50  | 3.82  | 0.004869  | ±2.5 | PASS |
| Band13 | 10MHz | QPSK  | 23230 | 50RB#0 | NV | -30 | -2.33 | -0.002980 | ±2.5 | PASS |
| Band13 | 10MHz | QPSK  | 23230 | 50RB#0 | NV | -20 | 2.27  | 0.002903  | ±2.5 | PASS |
| Band13 | 10MHz | QPSK  | 23230 | 50RB#0 | NV | -10 | 2.92  | 0.003734  | ±2.5 | PASS |
| Band13 | 10MHz | QPSK  | 23230 | 50RB#0 | NV | 0   | 2.68  | 0.003427  | ±2.5 | PASS |
| Band13 | 10MHz | QPSK  | 23230 | 50RB#0 | NV | 10  | -1.87 | -0.002391 | ±2.5 | PASS |
| Band13 | 10MHz | QPSK  | 23230 | 50RB#0 | NV | 20  | -2.42 | -0.003095 | ±2.5 | PASS |
| Band13 | 10MHz | QPSK  | 23230 | 50RB#0 | NV | 30  | -2.05 | -0.002621 | ±2.5 | PASS |
| Band13 | 10MHz | QPSK  | 23230 | 50RB#0 | NV | 40  | -2.10 | -0.002685 | ±2.5 | PASS |
| Band13 | 10MHz | QPSK  | 23230 | 50RB#0 | NV | 50  | -1.19 | -0.001522 | ±2.5 | PASS |

## Appendix G: Modulation Characteristics

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Verdict |
|--------|-----------|------------|---------|------------------|---------|
| Band13 | 5MHz      | QPSK       | 23205   | 25RB#0           | PASS    |
| Band13 | 5MHz      | QPSK       | 23230   | 25RB#0           | PASS    |
| Band13 | 5MHz      | QPSK       | 23255   | 25RB#0           | PASS    |
| Band13 | 5MHz      | 16QAM      | 23205   | 25RB#0           | PASS    |
| Band13 | 5MHz      | 16QAM      | 23230   | 25RB#0           | PASS    |
| Band13 | 5MHz      | 16QAM      | 23255   | 25RB#0           | PASS    |
| Band13 | 10MHz     | QPSK       | 23230   | 50RB#0           | PASS    |
| Band13 | 10MHz     | 16QAM      | 23230   | 1RB#0            | PASS    |

### Test Graphs

