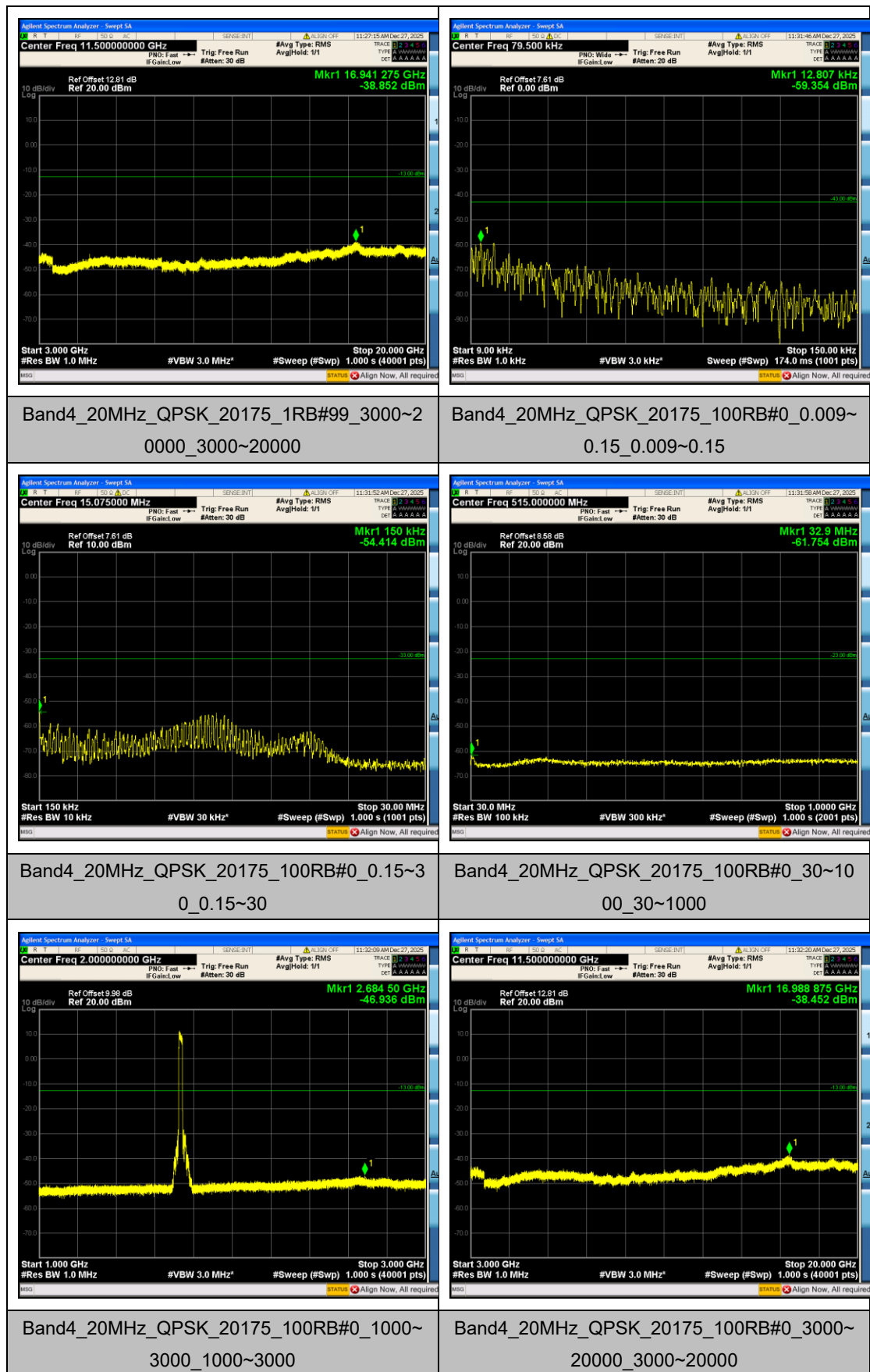
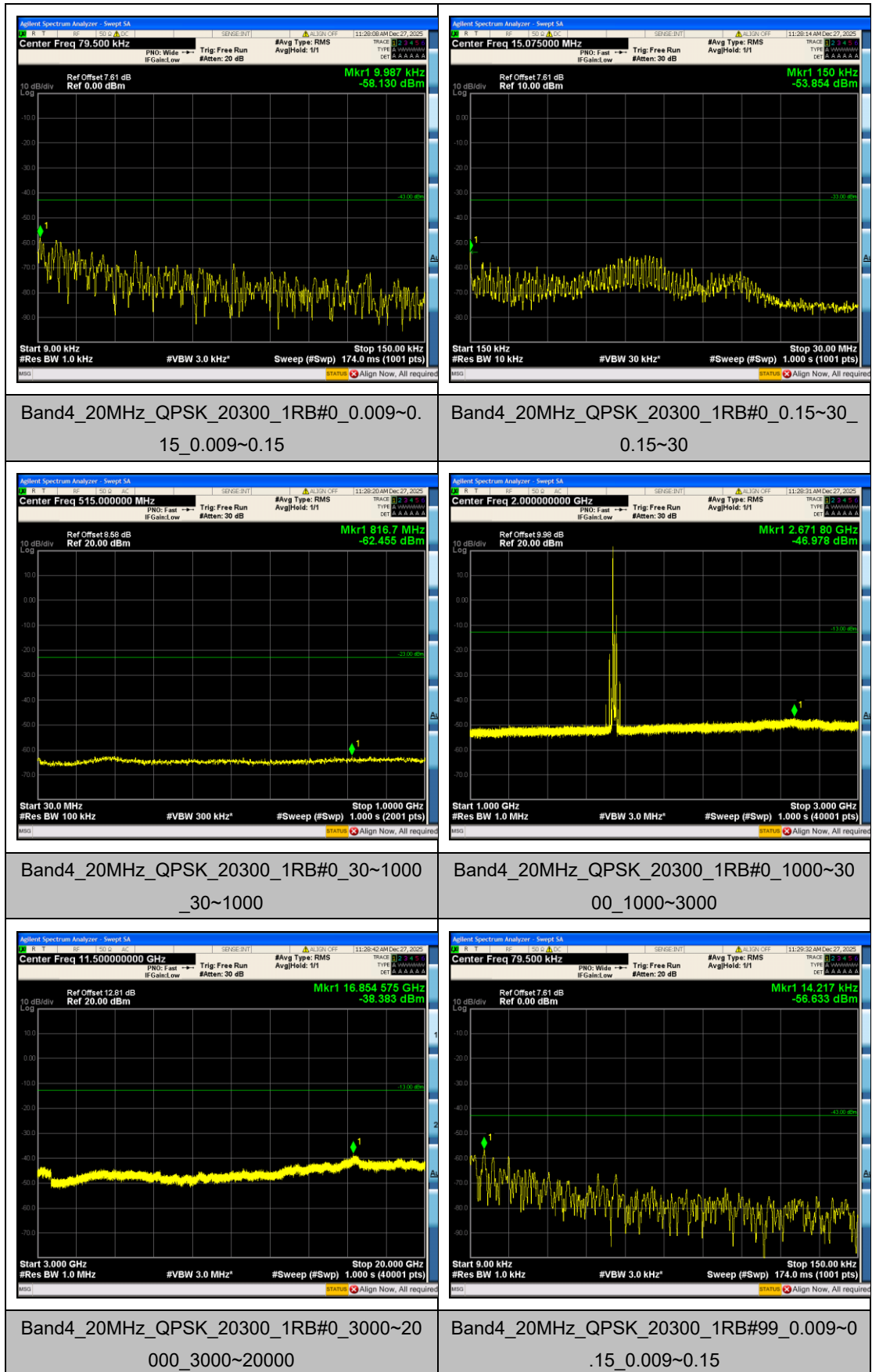
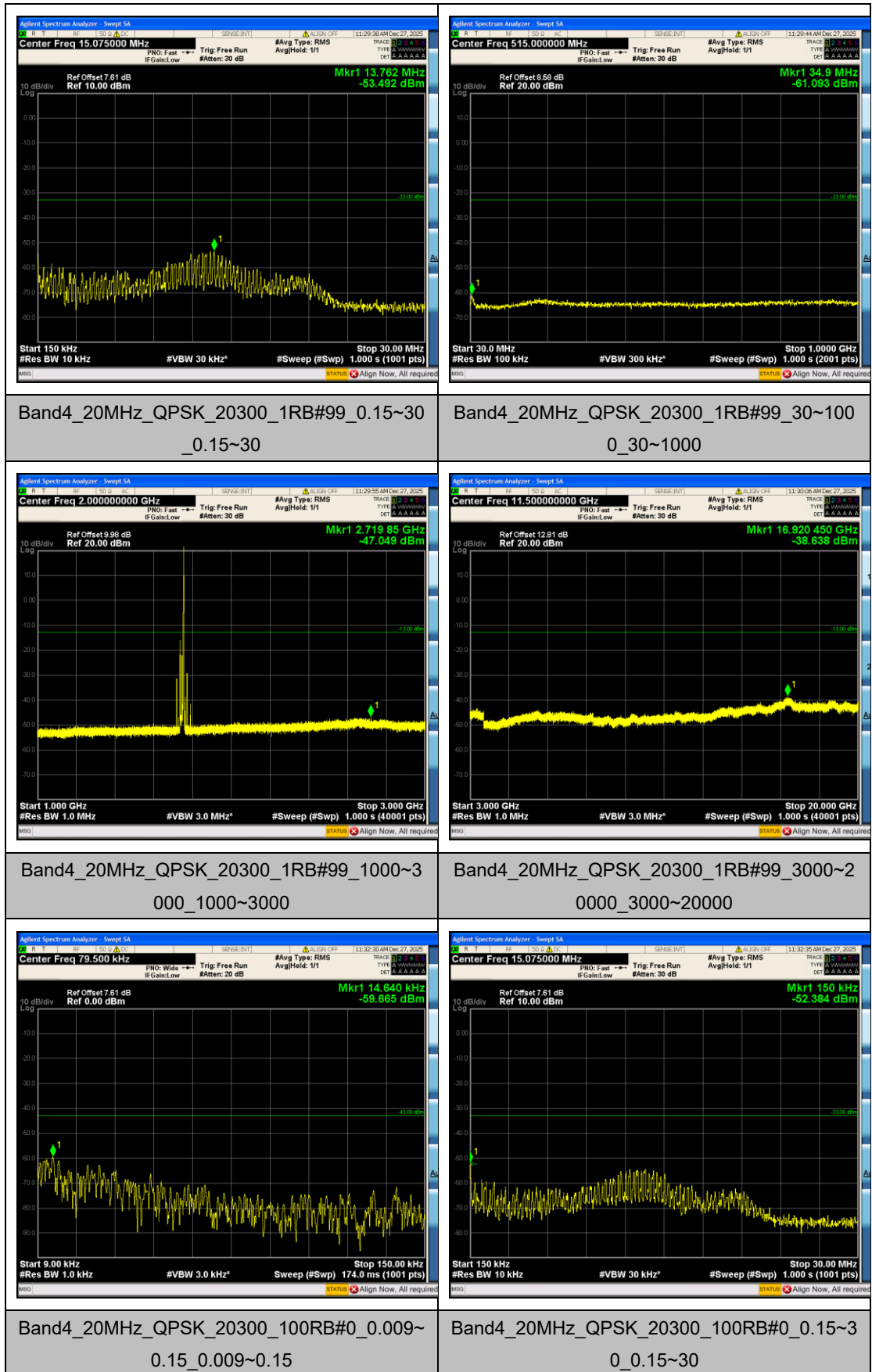
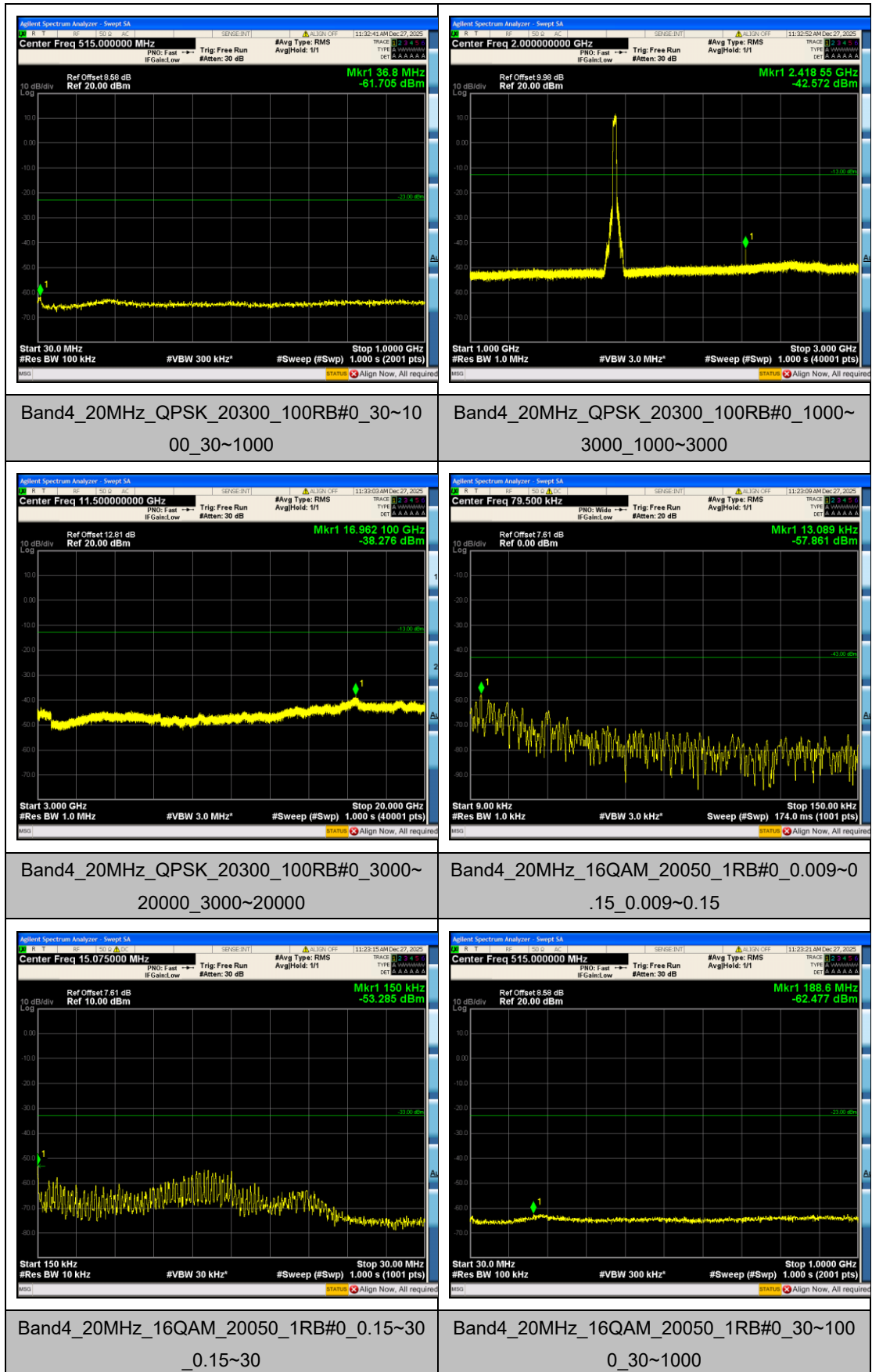
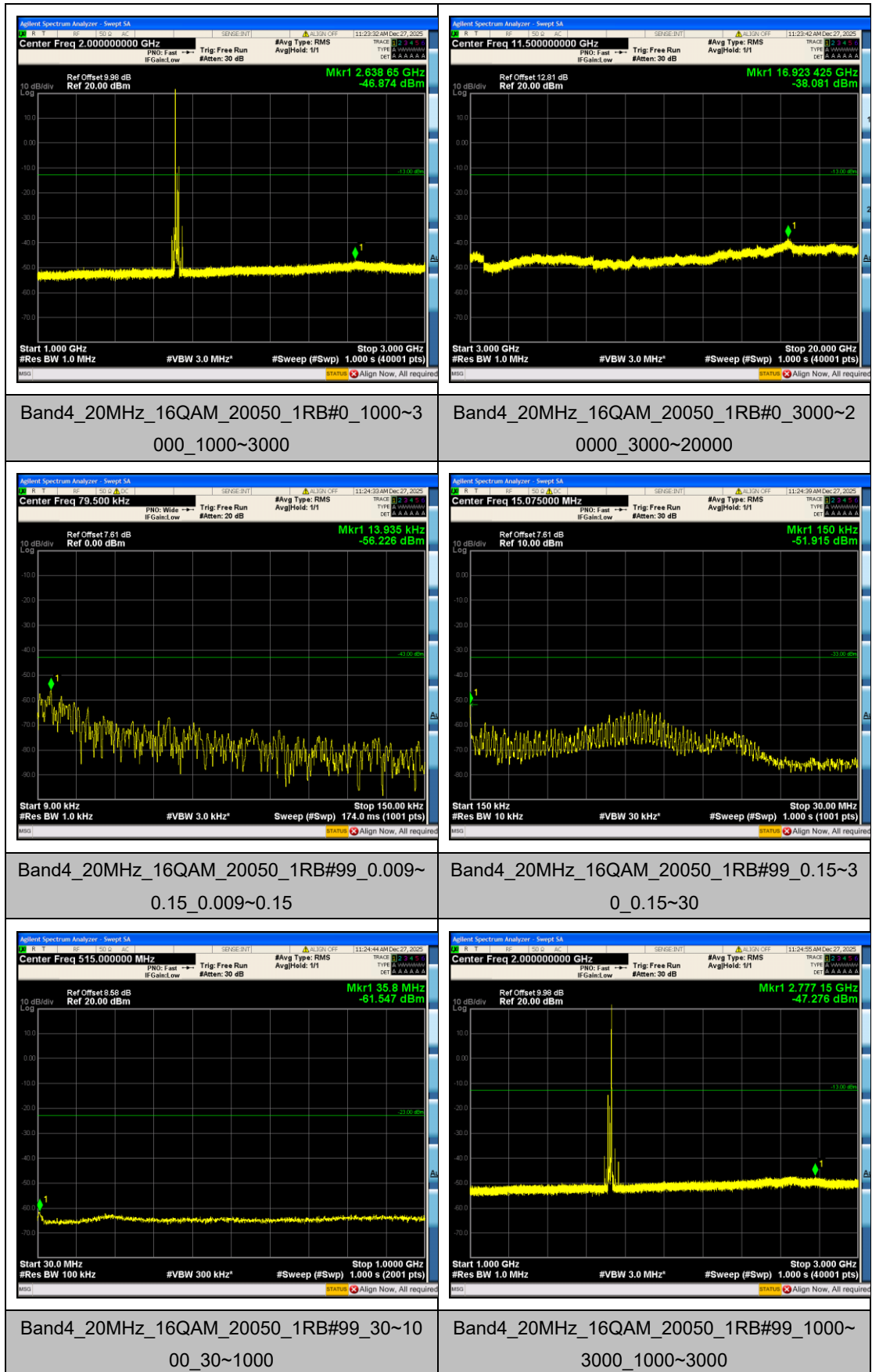


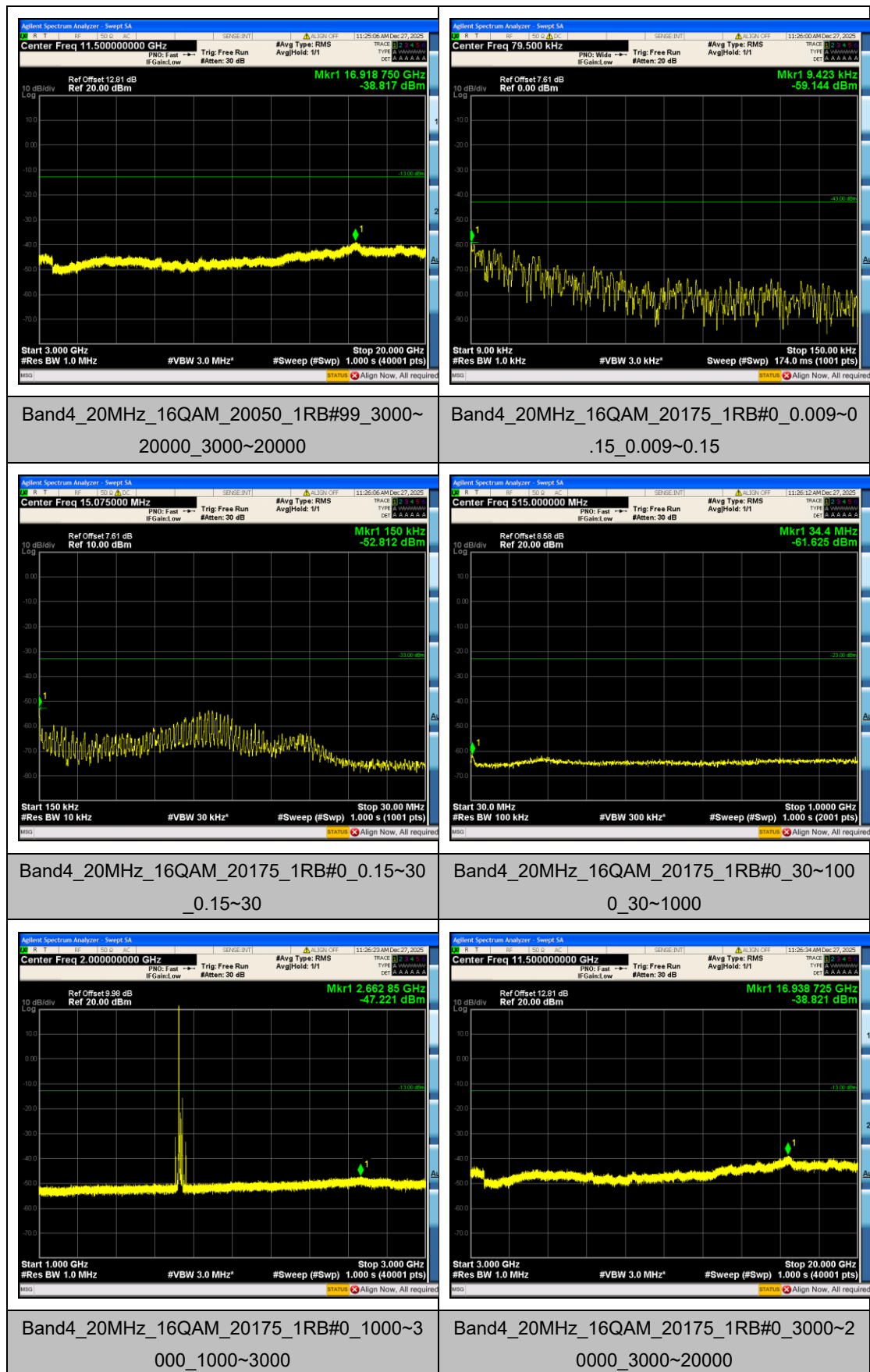


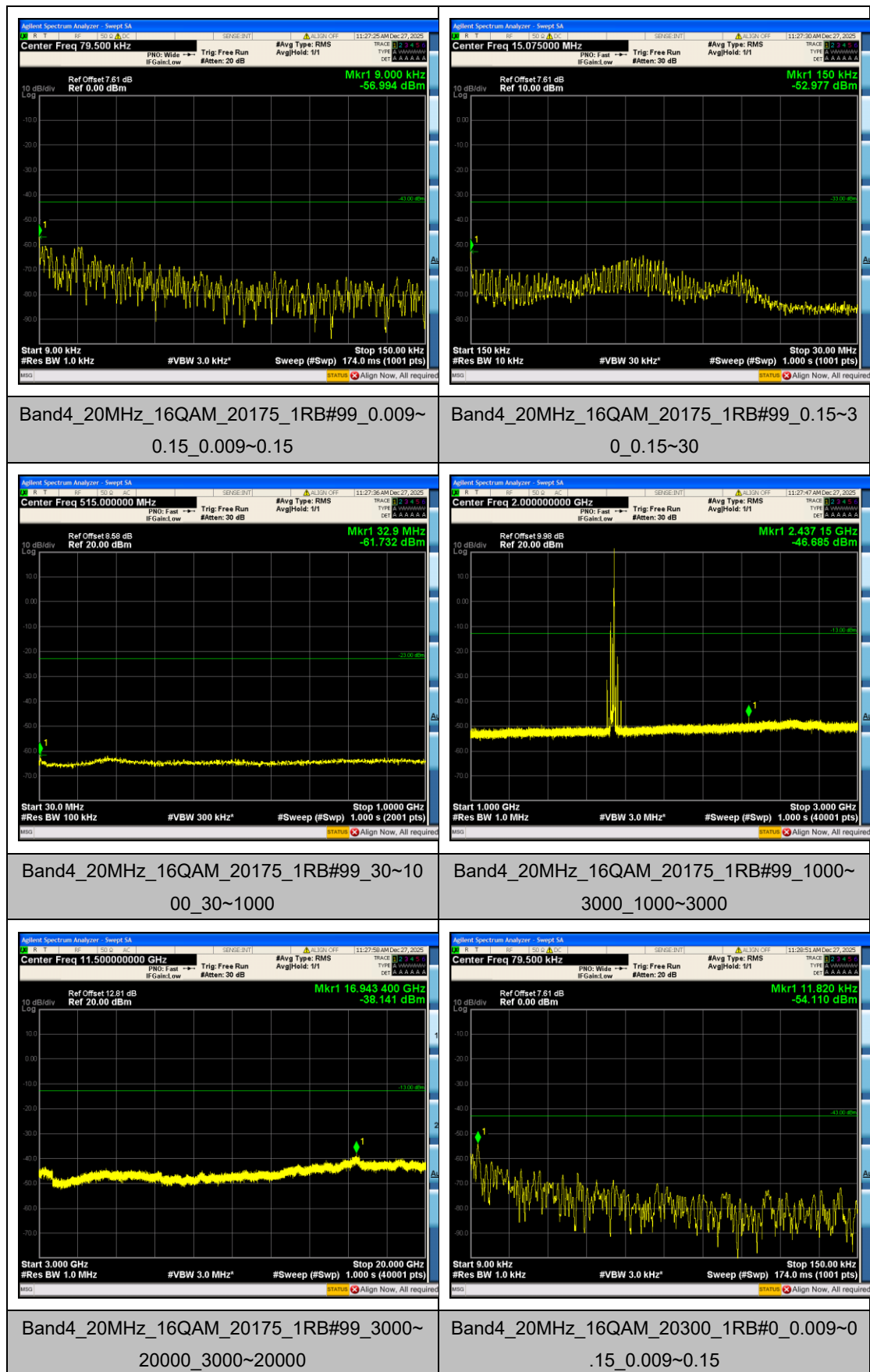


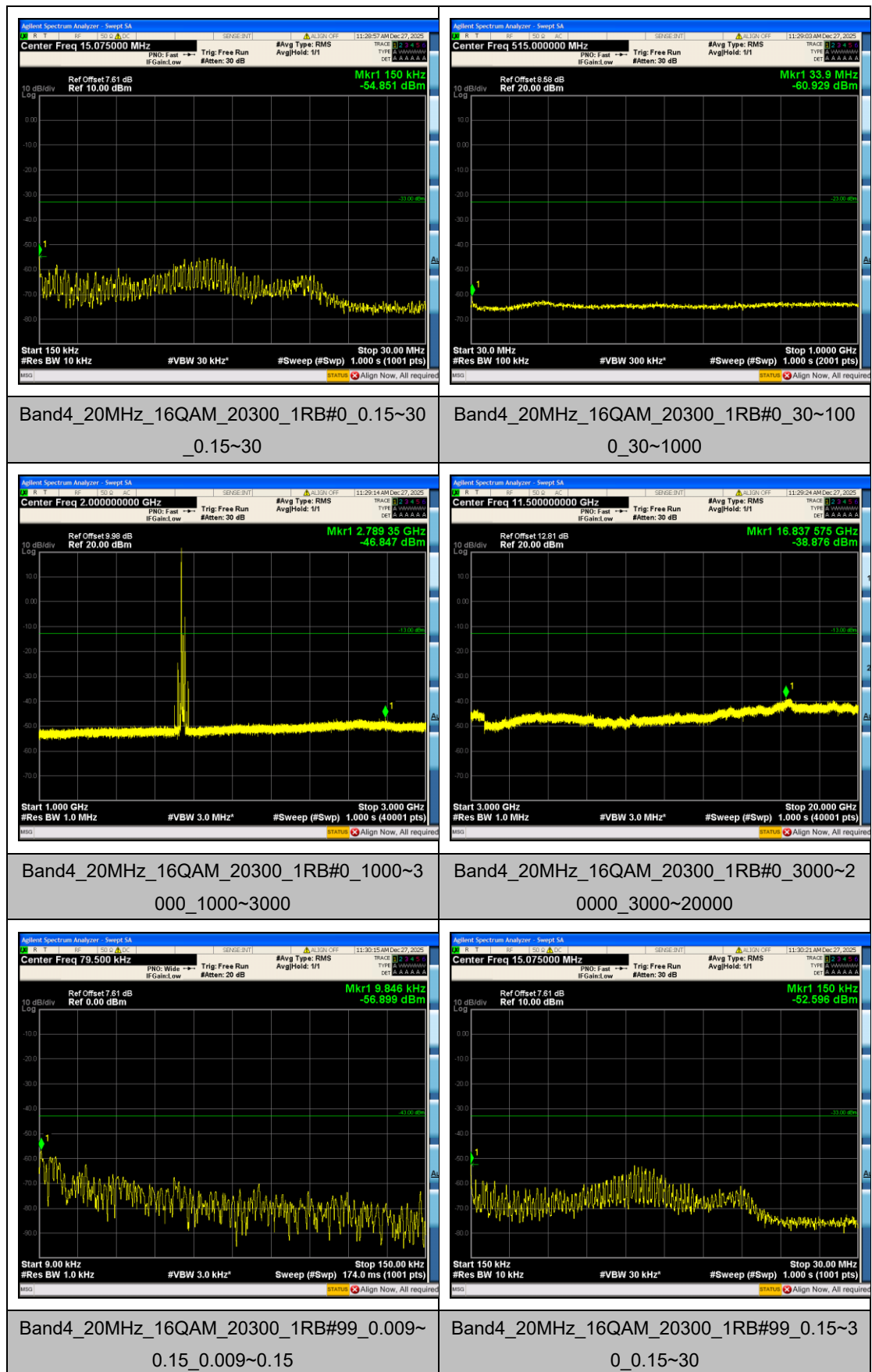


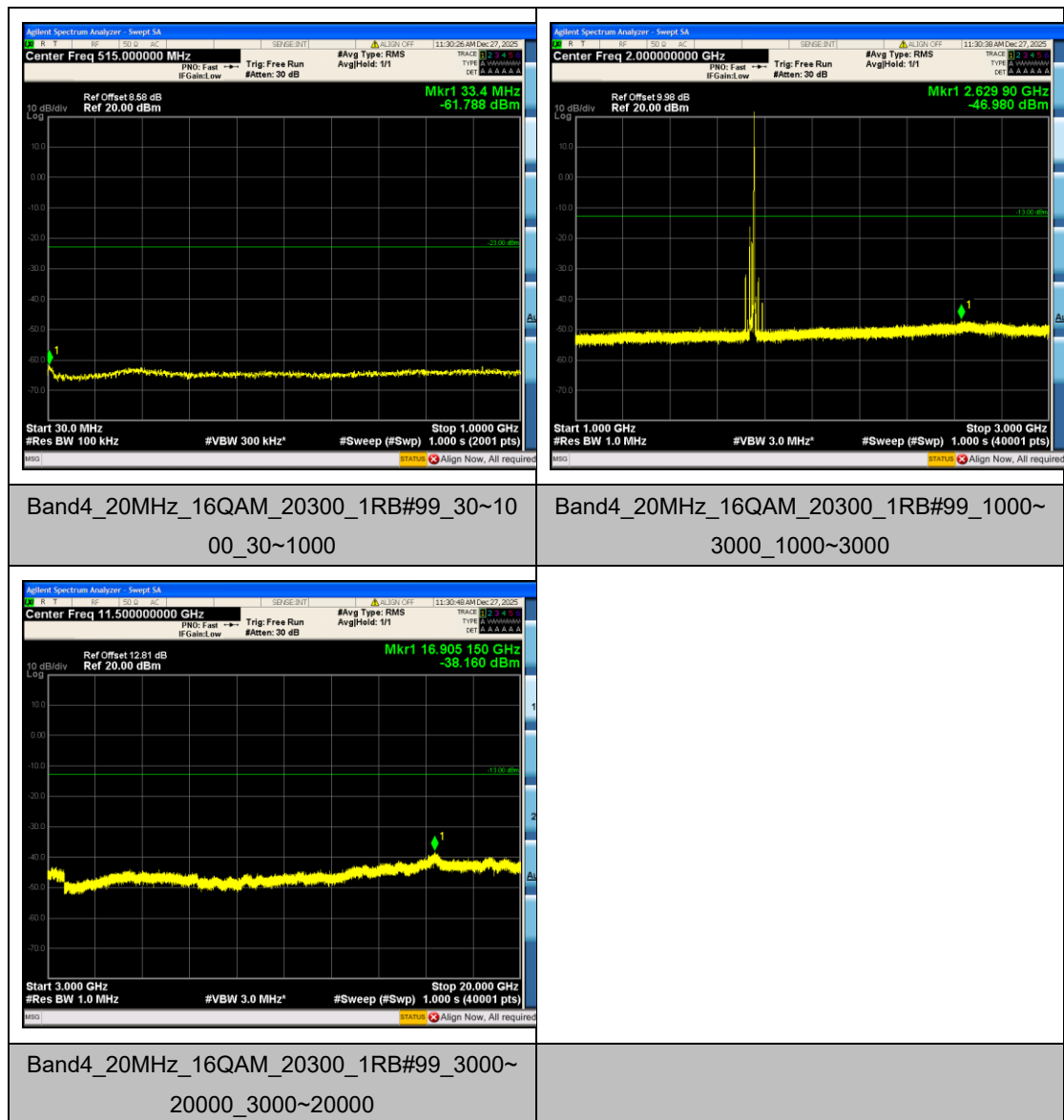












## Appendix F: Frequency Stability

### Test Result

| Band  | Bandwidth | Modulation | Channel | Temperature      |               |                  |                |                 |             |         |
|-------|-----------|------------|---------|------------------|---------------|------------------|----------------|-----------------|-------------|---------|
|       |           |            |         | RB Configuration | Voltage [Vdc] | Temperature (°C) | Deviation (Hz) | Deviation (ppm) | Limit (ppm) | Verdict |
| Band4 | 1.4MHz    | QPSK       | 19957   | 6RB#0            | NV            | -30              | -6.98          | -0.004080       | ±2.5        | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 6RB#0            | NV            | -20              | -8.27          | -0.004834       | ±2.5        | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 6RB#0            | NV            | -10              | -7.21          | -0.004215       | ±2.5        | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 6RB#0            | NV            | 0                | -8.53          | -0.004986       | ±2.5        | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 6RB#0            | NV            | 10               | -6.24          | -0.003648       | ±2.5        | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 6RB#0            | NV            | 20               | -5.45          | -0.003186       | ±2.5        | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 6RB#0            | NV            | 30               | -5.65          | -0.003303       | ±2.5        | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 6RB#0            | NV            | 40               | -6.75          | -0.003946       | ±2.5        | PASS    |
| Band4 | 1.4MHz    | QPSK       | 19957   | 6RB#0            | NV            | 50               | -4.06          | -0.002373       | ±2.5        | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 6RB#0            | NV            | -30              | -7.18          | -0.004144       | ±2.5        | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 6RB#0            | NV            | -20              | -8.48          | -0.004895       | ±2.5        | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 6RB#0            | NV            | -10              | -9.46          | -0.005460       | ±2.5        | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 6RB#0            | NV            | 0                | -6.71          | -0.003873       | ±2.5        | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 6RB#0            | NV            | 10               | -7.57          | -0.004369       | ±2.5        | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 6RB#0            | NV            | 20               | -6.61          | -0.003815       | ±2.5        | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 6RB#0            | NV            | 30               | -7.11          | -0.004104       | ±2.5        | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 6RB#0            | NV            | 40               | -6.71          | -0.003873       | ±2.5        | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 6RB#0            | NV            | 50               | -9.23          | -0.005328       | ±2.5        | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 6RB#0            | NV            | -30              | -15.69         | -0.008944       | ±2.5        | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 6RB#0            | NV            | -20              | -13.25         | -0.007553       | ±2.5        | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 6RB#0            | NV            | -10              | -15.99         | -0.009115       | ±2.5        | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 6RB#0            | NV            | 0                | -15.78         | -0.008995       | ±2.5        | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 6RB#0            | NV            | 10               | -14.42         | -0.008220       | ±2.5        | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 6RB#0            | NV            | 20               | -16.65         | -0.009491       | ±2.5        | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 6RB#0            | NV            | 30               | -15.06         | -0.008585       | ±2.5        | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 6RB#0            | NV            | 40               | -13.82         | -0.007878       | ±2.5        | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 6RB#0            | NV            | 50               | -18.40         | -0.010489       | ±2.5        | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 6RB#0            | NV            | -30              | -3.63          | -0.002122       | ±2.5        | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 6RB#0            | NV            | -20              | -5.64          | -0.003297       | ±2.5        | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 6RB#0            | NV            | -10              | -3.38          | -0.001976       | ±2.5        | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 6RB#0            | NV            | 0                | -5.02          | -0.002934       | ±2.5        | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 6RB#0            | NV            | 10               | -3.78          | -0.002210       | ±2.5        | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 6RB#0            | NV            | 20               | -7.65          | -0.004472       | ±2.5        | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 6RB#0            | NV            | 30               | -4.25          | -0.002484       | ±2.5        | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 6RB#0            | NV            | 40               | -5.87          | -0.003431       | ±2.5        | PASS    |

|       |        |       |       |        |    |     |       |           |      |      |
|-------|--------|-------|-------|--------|----|-----|-------|-----------|------|------|
| Band4 | 1.4MHz | 16QAM | 19957 | 6RB#0  | NV | 50  | -2.65 | -0.001549 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 6RB#0  | NV | -30 | -4.13 | -0.002384 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 6RB#0  | NV | -20 | -4.78 | -0.002759 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 6RB#0  | NV | -10 | -7.90 | -0.004560 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 6RB#0  | NV | 0   | -4.63 | -0.002672 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 6RB#0  | NV | 10  | -5.19 | -0.002996 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 6RB#0  | NV | 20  | -6.09 | -0.003515 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 6RB#0  | NV | 30  | -4.18 | -0.002413 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 6RB#0  | NV | 40  | -5.31 | -0.003065 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20175 | 6RB#0  | NV | 50  | -5.56 | -0.003209 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 6RB#0  | NV | -30 | -8.13 | -0.004634 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 6RB#0  | NV | -20 | -8.45 | -0.004817 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 6RB#0  | NV | -10 | -9.27 | -0.005284 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 6RB#0  | NV | 0   | -5.24 | -0.002987 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 6RB#0  | NV | 10  | -7.42 | -0.004230 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 6RB#0  | NV | 20  | -8.70 | -0.004959 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 6RB#0  | NV | 30  | -5.85 | -0.003335 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 6RB#0  | NV | 40  | -4.86 | -0.002770 | ±2.5 | PASS |
| Band4 | 1.4MHz | 16QAM | 20393 | 6RB#0  | NV | 50  | -7.65 | -0.004361 | ±2.5 | PASS |
| Band4 | 3MHz   | QPSK  | 19965 | 15RB#0 | NV | -30 | 2.99  | 0.001747  | ±2.5 | PASS |
| Band4 | 3MHz   | QPSK  | 19965 | 15RB#0 | NV | -20 | 5.61  | 0.003278  | ±2.5 | PASS |
| Band4 | 3MHz   | QPSK  | 19965 | 15RB#0 | NV | -10 | 7.42  | 0.004335  | ±2.5 | PASS |
| Band4 | 3MHz   | QPSK  | 19965 | 15RB#0 | NV | 0   | 3.26  | 0.001905  | ±2.5 | PASS |
| Band4 | 3MHz   | QPSK  | 19965 | 15RB#0 | NV | 10  | 7.87  | 0.004598  | ±2.5 | PASS |
| Band4 | 3MHz   | QPSK  | 19965 | 15RB#0 | NV | 20  | 4.21  | 0.002460  | ±2.5 | PASS |
| Band4 | 3MHz   | QPSK  | 19965 | 15RB#0 | NV | 30  | 5.04  | 0.002945  | ±2.5 | PASS |
| Band4 | 3MHz   | QPSK  | 19965 | 15RB#0 | NV | 40  | 4.86  | 0.002840  | ±2.5 | PASS |
| Band4 | 3MHz   | QPSK  | 19965 | 15RB#0 | NV | 50  | 4.88  | 0.002851  | ±2.5 | PASS |
| Band4 | 3MHz   | QPSK  | 20175 | 15RB#0 | NV | -30 | 4.53  | 0.002615  | ±2.5 | PASS |
| Band4 | 3MHz   | QPSK  | 20175 | 15RB#0 | NV | -20 | 3.35  | 0.001934  | ±2.5 | PASS |
| Band4 | 3MHz   | QPSK  | 20175 | 15RB#0 | NV | -10 | 5.66  | 0.003267  | ±2.5 | PASS |
| Band4 | 3MHz   | QPSK  | 20175 | 15RB#0 | NV | 0   | 2.92  | 0.001685  | ±2.5 | PASS |
| Band4 | 3MHz   | QPSK  | 20175 | 15RB#0 | NV | 10  | 5.36  | 0.003094  | ±2.5 | PASS |
| Band4 | 3MHz   | QPSK  | 20175 | 15RB#0 | NV | 20  | 3.92  | 0.002263  | ±2.5 | PASS |
| Band4 | 3MHz   | QPSK  | 20175 | 15RB#0 | NV | 30  | 7.37  | 0.004254  | ±2.5 | PASS |
| Band4 | 3MHz   | QPSK  | 20175 | 15RB#0 | NV | 40  | 3.20  | 0.001847  | ±2.5 | PASS |
| Band4 | 3MHz   | QPSK  | 20175 | 15RB#0 | NV | 50  | 3.29  | 0.001899  | ±2.5 | PASS |
| Band4 | 3MHz   | QPSK  | 20385 | 15RB#0 | NV | -30 | 2.93  | 0.001671  | ±2.5 | PASS |
| Band4 | 3MHz   | QPSK  | 20385 | 15RB#0 | NV | -20 | 6.55  | 0.003735  | ±2.5 | PASS |
| Band4 | 3MHz   | QPSK  | 20385 | 15RB#0 | NV | -10 | 5.36  | 0.003057  | ±2.5 | PASS |
| Band4 | 3MHz   | QPSK  | 20385 | 15RB#0 | NV | 0   | 5.19  | 0.002960  | ±2.5 | PASS |

|       |      |       |       |        |    |     |       |           |      |      |
|-------|------|-------|-------|--------|----|-----|-------|-----------|------|------|
| Band4 | 3MHz | QPSK  | 20385 | 15RB#0 | NV | 10  | 3.76  | 0.002144  | ±2.5 | PASS |
| Band4 | 3MHz | QPSK  | 20385 | 15RB#0 | NV | 20  | -2.85 | -0.001625 | ±2.5 | PASS |
| Band4 | 3MHz | QPSK  | 20385 | 15RB#0 | NV | 30  | 5.11  | 0.002914  | ±2.5 | PASS |
| Band4 | 3MHz | QPSK  | 20385 | 15RB#0 | NV | 40  | 3.93  | 0.002241  | ±2.5 | PASS |
| Band4 | 3MHz | QPSK  | 20385 | 15RB#0 | NV | 50  | 3.19  | 0.001819  | ±2.5 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 15RB#0 | NV | -30 | 5.04  | 0.002945  | ±2.5 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 15RB#0 | NV | -20 | 6.05  | 0.003535  | ±2.5 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 15RB#0 | NV | -10 | 5.59  | 0.003266  | ±2.5 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 15RB#0 | NV | 0   | 5.32  | 0.003108  | ±2.5 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 15RB#0 | NV | 10  | 5.66  | 0.003307  | ±2.5 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 15RB#0 | NV | 20  | 3.92  | 0.002290  | ±2.5 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 15RB#0 | NV | 30  | 4.73  | 0.002764  | ±2.5 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 15RB#0 | NV | 40  | 4.78  | 0.002793  | ±2.5 | PASS |
| Band4 | 3MHz | 16QAM | 19965 | 15RB#0 | NV | 50  | 3.66  | 0.002138  | ±2.5 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 15RB#0 | NV | -30 | 6.41  | 0.003700  | ±2.5 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 15RB#0 | NV | -20 | 5.68  | 0.003278  | ±2.5 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 15RB#0 | NV | -10 | 5.26  | 0.003036  | ±2.5 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 15RB#0 | NV | 0   | 4.98  | 0.002874  | ±2.5 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 15RB#0 | NV | 10  | 5.51  | 0.003180  | ±2.5 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 15RB#0 | NV | 20  | 3.62  | 0.002089  | ±2.5 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 15RB#0 | NV | 30  | 5.58  | 0.003221  | ±2.5 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 15RB#0 | NV | 40  | 6.91  | 0.003988  | ±2.5 | PASS |
| Band4 | 3MHz | 16QAM | 20175 | 15RB#0 | NV | 50  | 4.41  | 0.002545  | ±2.5 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 15RB#0 | NV | -30 | 5.44  | 0.003102  | ±2.5 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 15RB#0 | NV | -20 | 1.72  | 0.000981  | ±2.5 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 15RB#0 | NV | -10 | 3.13  | 0.001785  | ±2.5 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 15RB#0 | NV | 0   | 2.95  | 0.001682  | ±2.5 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 15RB#0 | NV | 10  | 5.54  | 0.003159  | ±2.5 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 15RB#0 | NV | 20  | 6.12  | 0.003490  | ±2.5 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 15RB#0 | NV | 30  | 6.22  | 0.003547  | ±2.5 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 15RB#0 | NV | 40  | 7.25  | 0.004135  | ±2.5 | PASS |
| Band4 | 3MHz | 16QAM | 20385 | 15RB#0 | NV | 50  | 5.52  | 0.003148  | ±2.5 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 25RB#0 | NV | -30 | 5.05  | 0.002949  | ±2.5 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 25RB#0 | NV | -20 | 5.36  | 0.003130  | ±2.5 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 25RB#0 | NV | -10 | 9.23  | 0.005390  | ±2.5 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 25RB#0 | NV | 0   | 6.32  | 0.003691  | ±2.5 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 25RB#0 | NV | 10  | 8.88  | 0.005185  | ±2.5 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 25RB#0 | NV | 20  | 7.12  | 0.004158  | ±2.5 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 25RB#0 | NV | 30  | 7.40  | 0.004321  | ±2.5 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 25RB#0 | NV | 40  | 8.60  | 0.005022  | ±2.5 | PASS |
| Band4 | 5MHz | QPSK  | 19975 | 25RB#0 | NV | 50  | 7.42  | 0.004333  | ±2.5 | PASS |

|       |      |       |       |        |    |     |       |           |      |      |
|-------|------|-------|-------|--------|----|-----|-------|-----------|------|------|
| Band4 | 5MHz | QPSK  | 20175 | 25RB#0 | NV | -30 | 4.41  | 0.002545  | ±2.5 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 25RB#0 | NV | -20 | 4.52  | 0.002609  | ±2.5 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 25RB#0 | NV | -10 | 3.38  | 0.001951  | ±2.5 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 25RB#0 | NV | 0   | 3.50  | 0.002020  | ±2.5 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 25RB#0 | NV | 10  | 3.73  | 0.002153  | ±2.5 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 25RB#0 | NV | 20  | 3.65  | 0.002107  | ±2.5 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 25RB#0 | NV | 30  | 4.38  | 0.002528  | ±2.5 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 25RB#0 | NV | 40  | 4.36  | 0.002517  | ±2.5 | PASS |
| Band4 | 5MHz | QPSK  | 20175 | 25RB#0 | NV | 50  | 4.42  | 0.002551  | ±2.5 | PASS |
| Band4 | 5MHz | QPSK  | 20375 | 25RB#0 | NV | -30 | -4.18 | -0.002385 | ±2.5 | PASS |
| Band4 | 5MHz | QPSK  | 20375 | 25RB#0 | NV | -20 | -5.58 | -0.003184 | ±2.5 | PASS |
| Band4 | 5MHz | QPSK  | 20375 | 25RB#0 | NV | -10 | -6.01 | -0.003429 | ±2.5 | PASS |
| Band4 | 5MHz | QPSK  | 20375 | 25RB#0 | NV | 0   | -6.78 | -0.003869 | ±2.5 | PASS |
| Band4 | 5MHz | QPSK  | 20375 | 25RB#0 | NV | 10  | -4.69 | -0.002676 | ±2.5 | PASS |
| Band4 | 5MHz | QPSK  | 20375 | 25RB#0 | NV | 20  | -5.06 | -0.002887 | ±2.5 | PASS |
| Band4 | 5MHz | QPSK  | 20375 | 25RB#0 | NV | 30  | -7.24 | -0.004131 | ±2.5 | PASS |
| Band4 | 5MHz | QPSK  | 20375 | 25RB#0 | NV | 40  | -3.49 | -0.001991 | ±2.5 | PASS |
| Band4 | 5MHz | QPSK  | 20375 | 25RB#0 | NV | 50  | -4.92 | -0.002807 | ±2.5 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 25RB#0 | NV | -30 | 6.87  | 0.004012  | ±2.5 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 25RB#0 | NV | -20 | 9.20  | 0.005372  | ±2.5 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 25RB#0 | NV | -10 | 6.48  | 0.003784  | ±2.5 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 25RB#0 | NV | 0   | 6.55  | 0.003825  | ±2.5 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 25RB#0 | NV | 10  | 6.35  | 0.003708  | ±2.5 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 25RB#0 | NV | 20  | 5.24  | 0.003060  | ±2.5 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 25RB#0 | NV | 30  | 7.25  | 0.004234  | ±2.5 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 25RB#0 | NV | 40  | 5.51  | 0.003218  | ±2.5 | PASS |
| Band4 | 5MHz | 16QAM | 19975 | 25RB#0 | NV | 50  | 6.51  | 0.003801  | ±2.5 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 25RB#0 | NV | -30 | 3.88  | 0.002240  | ±2.5 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 25RB#0 | NV | -20 | 3.62  | 0.002089  | ±2.5 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 25RB#0 | NV | -10 | 4.12  | 0.002378  | ±2.5 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 25RB#0 | NV | 0   | 6.98  | 0.004029  | ±2.5 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 25RB#0 | NV | 10  | 4.25  | 0.002453  | ±2.5 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 25RB#0 | NV | 20  | 5.09  | 0.002938  | ±2.5 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 25RB#0 | NV | 30  | 6.32  | 0.003648  | ±2.5 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 25RB#0 | NV | 40  | 7.50  | 0.004329  | ±2.5 | PASS |
| Band4 | 5MHz | 16QAM | 20175 | 25RB#0 | NV | 50  | 2.82  | 0.001628  | ±2.5 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 25RB#0 | NV | -30 | -4.45 | -0.002539 | ±2.5 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 25RB#0 | NV | -20 | -3.91 | -0.002231 | ±2.5 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 25RB#0 | NV | -10 | -5.97 | -0.003407 | ±2.5 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 25RB#0 | NV | 0   | -3.96 | -0.002260 | ±2.5 | PASS |
| Band4 | 5MHz | 16QAM | 20375 | 25RB#0 | NV | 10  | -5.24 | -0.002990 | ±2.5 | PASS |

|       |       |       |       |        |    |     |       |           |      |      |
|-------|-------|-------|-------|--------|----|-----|-------|-----------|------|------|
| Band4 | 5MHz  | 16QAM | 20375 | 25RB#0 | NV | 20  | -7.37 | -0.004205 | ±2.5 | PASS |
| Band4 | 5MHz  | 16QAM | 20375 | 25RB#0 | NV | 30  | -6.08 | -0.003469 | ±2.5 | PASS |
| Band4 | 5MHz  | 16QAM | 20375 | 25RB#0 | NV | 40  | -3.48 | -0.001986 | ±2.5 | PASS |
| Band4 | 5MHz  | 16QAM | 20375 | 25RB#0 | NV | 50  | -8.08 | -0.004611 | ±2.5 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 50RB#0 | NV | -30 | -5.21 | -0.003038 | ±2.5 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 50RB#0 | NV | -20 | -2.57 | -0.001499 | ±2.5 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 50RB#0 | NV | -10 | -4.01 | -0.002338 | ±2.5 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 50RB#0 | NV | 0   | -5.08 | -0.002962 | ±2.5 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 50RB#0 | NV | 10  | -3.35 | -0.001953 | ±2.5 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 50RB#0 | NV | 20  | -4.82 | -0.002810 | ±2.5 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 50RB#0 | NV | 30  | -5.72 | -0.003335 | ±2.5 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 50RB#0 | NV | 40  | -4.23 | -0.002466 | ±2.5 | PASS |
| Band4 | 10MHz | QPSK  | 20000 | 50RB#0 | NV | 50  | -6.27 | -0.003656 | ±2.5 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 50RB#0 | NV | -30 | -3.18 | -0.001835 | ±2.5 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 50RB#0 | NV | -20 | 2.15  | 0.001241  | ±2.5 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 50RB#0 | NV | -10 | 3.42  | 0.001974  | ±2.5 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 50RB#0 | NV | 0   | 3.93  | 0.002268  | ±2.5 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 50RB#0 | NV | 10  | 3.48  | 0.002009  | ±2.5 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 50RB#0 | NV | 20  | 3.56  | 0.002055  | ±2.5 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 50RB#0 | NV | 30  | 5.09  | 0.002938  | ±2.5 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 50RB#0 | NV | 40  | 3.08  | 0.001778  | ±2.5 | PASS |
| Band4 | 10MHz | QPSK  | 20175 | 50RB#0 | NV | 50  | -4.69 | -0.002707 | ±2.5 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 50RB#0 | NV | -30 | 3.58  | 0.002046  | ±2.5 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 50RB#0 | NV | -20 | -4.72 | -0.002697 | ±2.5 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 50RB#0 | NV | -10 | 3.96  | 0.002263  | ±2.5 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 50RB#0 | NV | 0   | 4.33  | 0.002474  | ±2.5 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 50RB#0 | NV | 10  | 3.88  | 0.002217  | ±2.5 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 50RB#0 | NV | 20  | -6.22 | -0.003554 | ±2.5 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 50RB#0 | NV | 30  | 4.62  | 0.002640  | ±2.5 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 50RB#0 | NV | 40  | 6.27  | 0.003583  | ±2.5 | PASS |
| Band4 | 10MHz | QPSK  | 20350 | 50RB#0 | NV | 50  | -4.02 | -0.002297 | ±2.5 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 75RB#0 | NV | -30 | -2.39 | -0.001392 | ±2.5 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 75RB#0 | NV | -20 | 3.52  | 0.002049  | ±2.5 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 75RB#0 | NV | -10 | 4.28  | 0.002492  | ±2.5 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 75RB#0 | NV | 0   | 4.65  | 0.002707  | ±2.5 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 75RB#0 | NV | 10  | 3.32  | 0.001933  | ±2.5 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 75RB#0 | NV | 20  | 5.28  | 0.003074  | ±2.5 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 75RB#0 | NV | 30  | 3.23  | 0.001881  | ±2.5 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 75RB#0 | NV | 40  | 4.29  | 0.002498  | ±2.5 | PASS |
| Band4 | 15MHz | QPSK  | 20025 | 75RB#0 | NV | 50  | 3.08  | 0.001793  | ±2.5 | PASS |
| Band4 | 15MHz | QPSK  | 20175 | 75RB#0 | NV | -30 | 5.69  | 0.003284  | ±2.5 | PASS |

|       |       |      |       |         |    |     |       |           |      |      |
|-------|-------|------|-------|---------|----|-----|-------|-----------|------|------|
| Band4 | 15MHz | QPSK | 20175 | 75RB#0  | NV | -20 | 3.42  | 0.001974  | ±2.5 | PASS |
| Band4 | 15MHz | QPSK | 20175 | 75RB#0  | NV | -10 | 5.14  | 0.002967  | ±2.5 | PASS |
| Band4 | 15MHz | QPSK | 20175 | 75RB#0  | NV | 0   | 5.01  | 0.002892  | ±2.5 | PASS |
| Band4 | 15MHz | QPSK | 20175 | 75RB#0  | NV | 10  | 4.91  | 0.002834  | ±2.5 | PASS |
| Band4 | 15MHz | QPSK | 20175 | 75RB#0  | NV | 20  | 5.11  | 0.002949  | ±2.5 | PASS |
| Band4 | 15MHz | QPSK | 20175 | 75RB#0  | NV | 30  | 3.75  | 0.002165  | ±2.5 | PASS |
| Band4 | 15MHz | QPSK | 20175 | 75RB#0  | NV | 40  | 3.43  | 0.001980  | ±2.5 | PASS |
| Band4 | 15MHz | QPSK | 20175 | 75RB#0  | NV | 50  | 4.62  | 0.002667  | ±2.5 | PASS |
| Band4 | 15MHz | QPSK | 20325 | 75RB#0  | NV | -30 | 6.15  | 0.003519  | ±2.5 | PASS |
| Band4 | 15MHz | QPSK | 20325 | 75RB#0  | NV | -20 | -4.84 | -0.002770 | ±2.5 | PASS |
| Band4 | 15MHz | QPSK | 20325 | 75RB#0  | NV | -10 | -3.71 | -0.002123 | ±2.5 | PASS |
| Band4 | 15MHz | QPSK | 20325 | 75RB#0  | NV | 0   | 1.90  | 0.001087  | ±2.5 | PASS |
| Band4 | 15MHz | QPSK | 20325 | 75RB#0  | NV | 10  | 3.78  | 0.002163  | ±2.5 | PASS |
| Band4 | 15MHz | QPSK | 20325 | 75RB#0  | NV | 20  | 2.78  | 0.001591  | ±2.5 | PASS |
| Band4 | 15MHz | QPSK | 20325 | 75RB#0  | NV | 30  | -4.18 | -0.002392 | ±2.5 | PASS |
| Band4 | 15MHz | QPSK | 20325 | 75RB#0  | NV | 40  | 6.15  | 0.003519  | ±2.5 | PASS |
| Band4 | 15MHz | QPSK | 20325 | 75RB#0  | NV | 50  | -2.89 | -0.001654 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 100RB#0 | NV | -30 | 4.46  | 0.002593  | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 100RB#0 | NV | -20 | 3.71  | 0.002157  | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 100RB#0 | NV | -10 | 2.86  | 0.001663  | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 100RB#0 | NV | 0   | 3.20  | 0.001860  | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 100RB#0 | NV | 10  | 8.67  | 0.005041  | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 100RB#0 | NV | 20  | 3.55  | 0.002064  | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 100RB#0 | NV | 30  | 2.32  | 0.001349  | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 100RB#0 | NV | 40  | 5.04  | 0.002930  | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20050 | 100RB#0 | NV | 50  | 5.82  | 0.003384  | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | NV | -30 | -3.56 | -0.002055 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | NV | -20 | -2.89 | -0.001668 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | NV | -10 | -4.18 | -0.002413 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | NV | 0   | 3.52  | 0.002032  | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | NV | 10  | -2.90 | -0.001674 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | NV | 20  | 5.25  | 0.003030  | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | NV | 30  | 3.23  | 0.001864  | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | NV | 40  | 3.63  | 0.002095  | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20175 | 100RB#0 | NV | 50  | 3.65  | 0.002107  | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 100RB#0 | NV | -30 | -2.35 | -0.001347 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 100RB#0 | NV | -20 | -6.74 | -0.003862 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 100RB#0 | NV | -10 | 5.87  | 0.003364  | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 100RB#0 | NV | 0   | -5.82 | -0.003335 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 100RB#0 | NV | 10  | -5.36 | -0.003072 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 100RB#0 | NV | 20  | -6.22 | -0.003564 | ±2.5 | PASS |

|       |       |      |       |         |    |    |       |           |      |      |
|-------|-------|------|-------|---------|----|----|-------|-----------|------|------|
| Band4 | 20MHz | QPSK | 20300 | 100RB#0 | NV | 30 | -5.89 | -0.003375 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 100RB#0 | NV | 40 | -4.58 | -0.002625 | ±2.5 | PASS |
| Band4 | 20MHz | QPSK | 20300 | 100RB#0 | NV | 50 | -6.07 | -0.003479 | ±2.5 | PASS |

## Appendix G: Modulation Characteristics

### Test Result

| Band  | Bandwidth | Modulation | Channel | RB Configuration | Verdict |
|-------|-----------|------------|---------|------------------|---------|
| Band4 | 1.4MHz    | QPSK       | 19957   | 6RB#0            | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20175   | 6RB#0            | PASS    |
| Band4 | 1.4MHz    | QPSK       | 20393   | 6RB#0            | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 19957   | 6RB#0            | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20175   | 6RB#0            | PASS    |
| Band4 | 1.4MHz    | 16QAM      | 20393   | 6RB#0            | PASS    |
| Band4 | 3MHz      | QPSK       | 19965   | 15RB#0           | PASS    |
| Band4 | 3MHz      | QPSK       | 20175   | 15RB#0           | PASS    |
| Band4 | 3MHz      | QPSK       | 20385   | 15RB#0           | PASS    |
| Band4 | 3MHz      | 16QAM      | 19965   | 15RB#0           | PASS    |
| Band4 | 3MHz      | 16QAM      | 20175   | 15RB#0           | PASS    |
| Band4 | 3MHz      | 16QAM      | 20385   | 15RB#0           | PASS    |
| Band4 | 5MHz      | QPSK       | 19975   | 25RB#0           | PASS    |
| Band4 | 5MHz      | QPSK       | 20175   | 25RB#0           | PASS    |
| Band4 | 5MHz      | QPSK       | 20375   | 25RB#0           | PASS    |
| Band4 | 5MHz      | 16QAM      | 19975   | 25RB#0           | PASS    |
| Band4 | 5MHz      | 16QAM      | 20175   | 25RB#0           | PASS    |
| Band4 | 5MHz      | 16QAM      | 20375   | 25RB#0           | PASS    |
| Band4 | 10MHz     | QPSK       | 20000   | 50RB#0           | PASS    |
| Band4 | 10MHz     | QPSK       | 20175   | 50RB#0           | PASS    |
| Band4 | 10MHz     | QPSK       | 20350   | 50RB#0           | PASS    |
| Band4 | 10MHz     | 16QAM      | 20000   | 1RB#0            | PASS    |
| Band4 | 10MHz     | 16QAM      | 20175   | 1RB#0            | PASS    |
| Band4 | 10MHz     | 16QAM      | 20350   | 1RB#0            | PASS    |
| Band4 | 15MHz     | QPSK       | 20025   | 75RB#0           | PASS    |
| Band4 | 15MHz     | QPSK       | 20175   | 75RB#0           | PASS    |
| Band4 | 15MHz     | QPSK       | 20325   | 75RB#0           | PASS    |
| Band4 | 15MHz     | 16QAM      | 20025   | 1RB#0            | PASS    |
| Band4 | 15MHz     | 16QAM      | 20175   | 1RB#0            | PASS    |
| Band4 | 15MHz     | 16QAM      | 20325   | 1RB#0            | PASS    |
| Band4 | 20MHz     | QPSK       | 20050   | 100RB#0          | PASS    |
| Band4 | 20MHz     | QPSK       | 20175   | 100RB#0          | PASS    |
| Band4 | 20MHz     | QPSK       | 20300   | 100RB#0          | PASS    |
| Band4 | 20MHz     | 16QAM      | 20050   | 1RB#0            | PASS    |
| Band4 | 20MHz     | 16QAM      | 20175   | 1RB#0            | PASS    |
| Band4 | 20MHz     | 16QAM      | 20300   | 1RB#0            | PASS    |