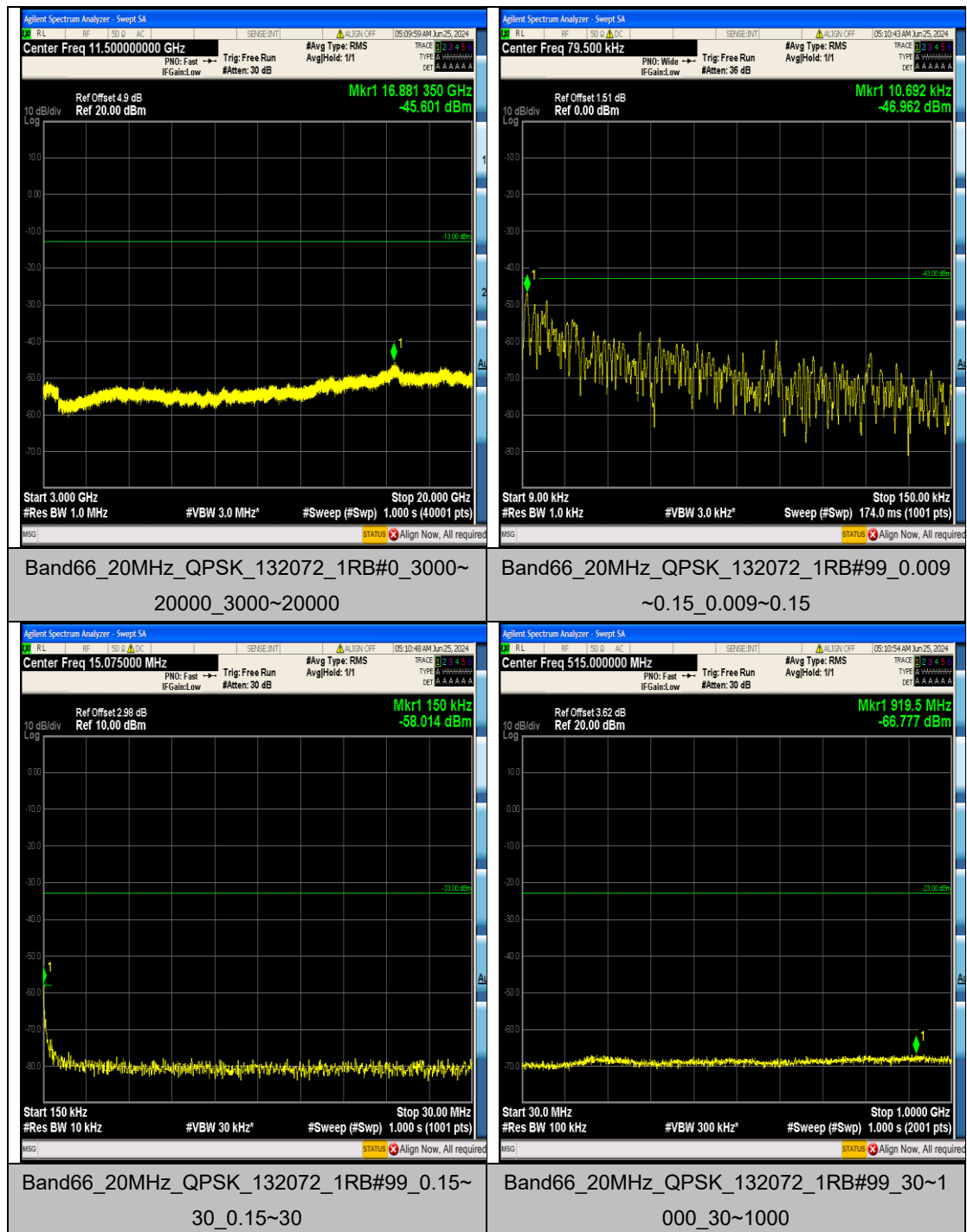
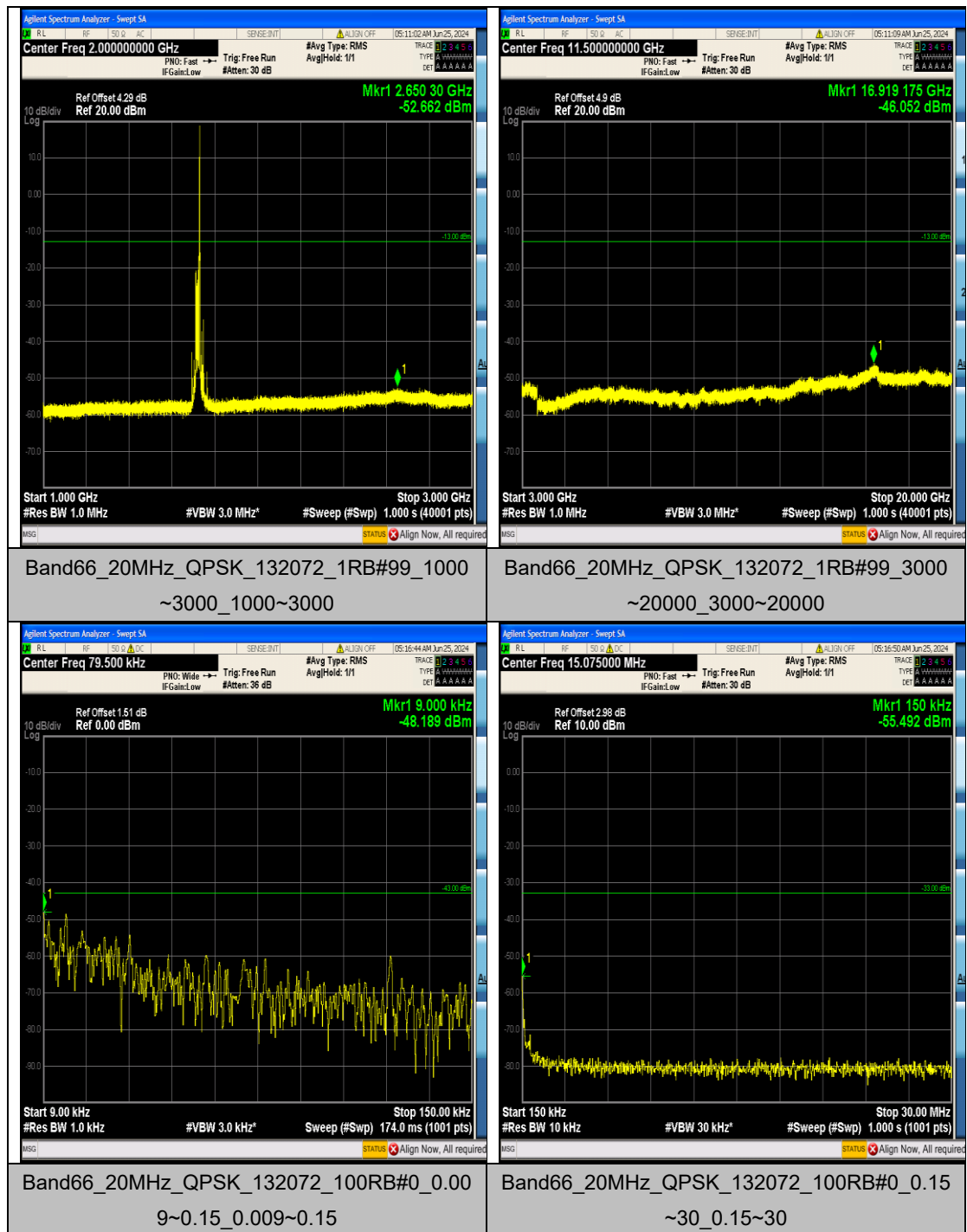
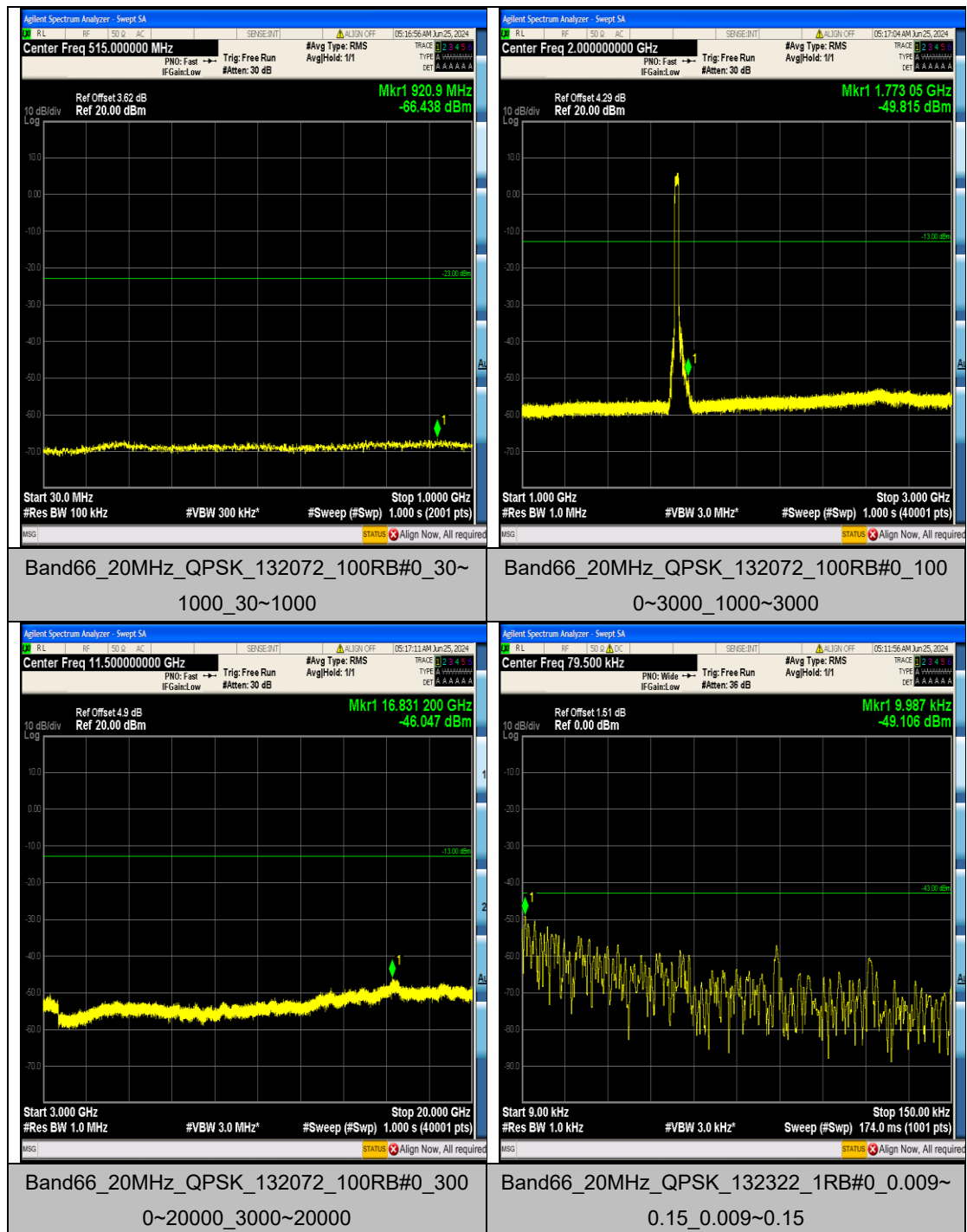
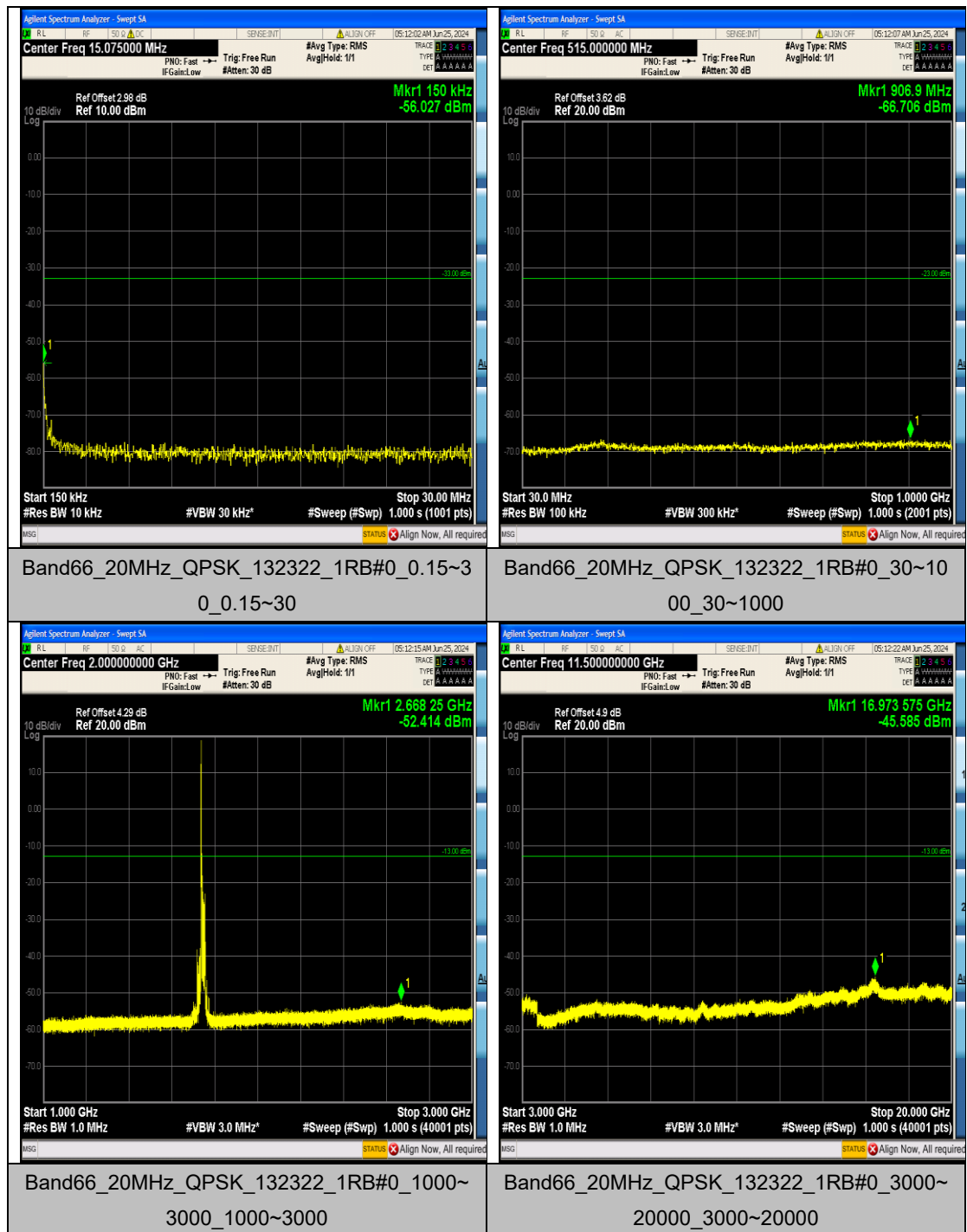
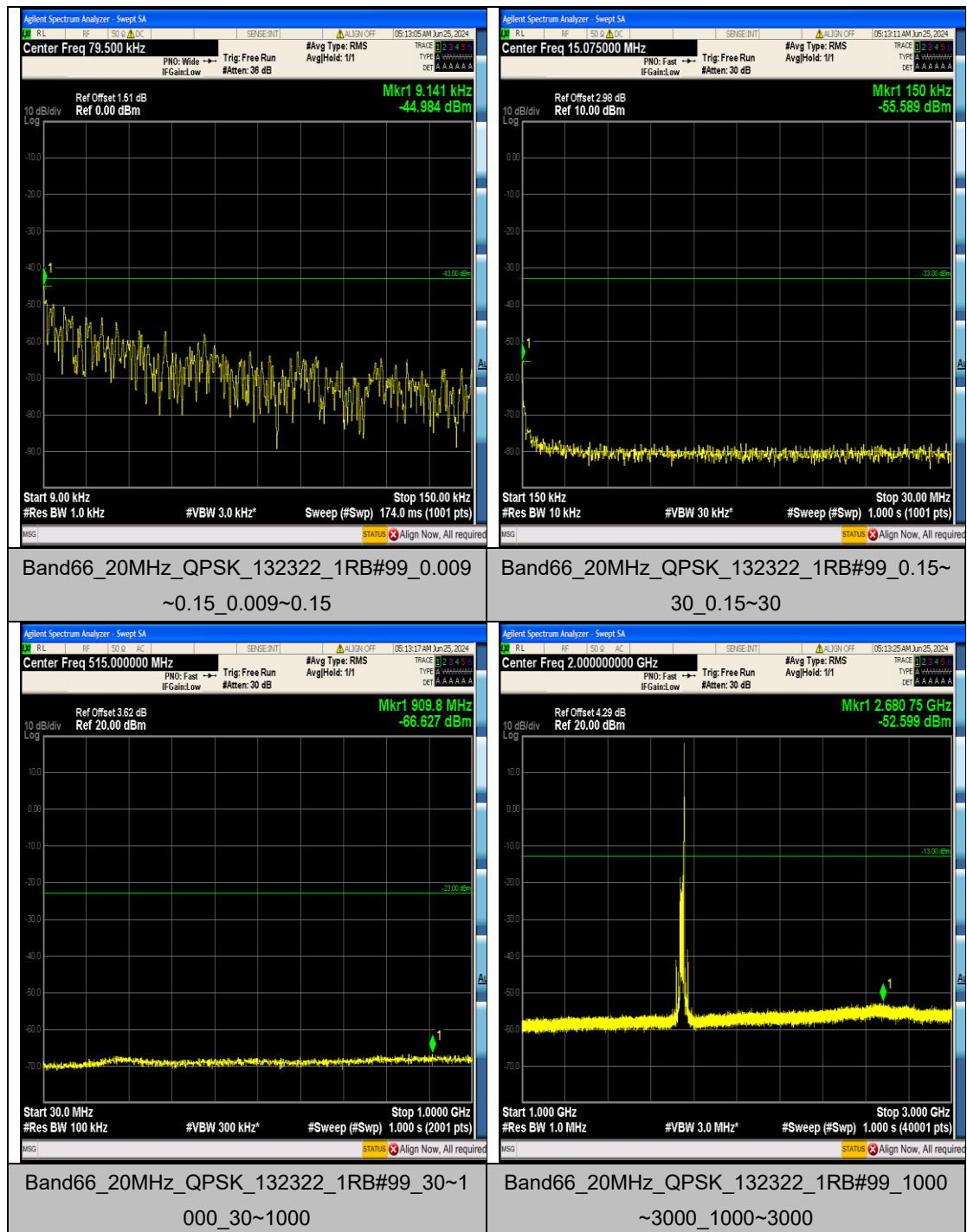


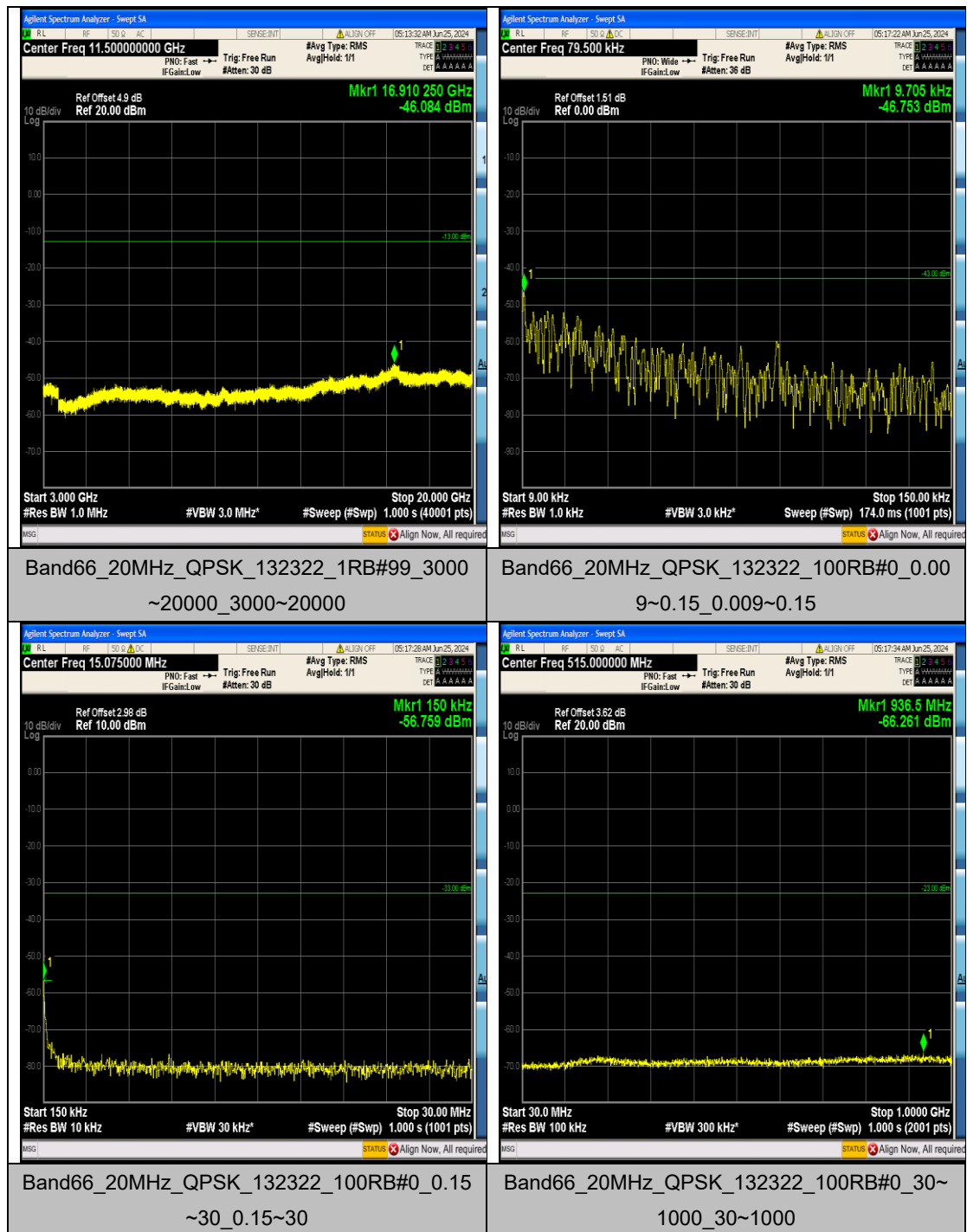


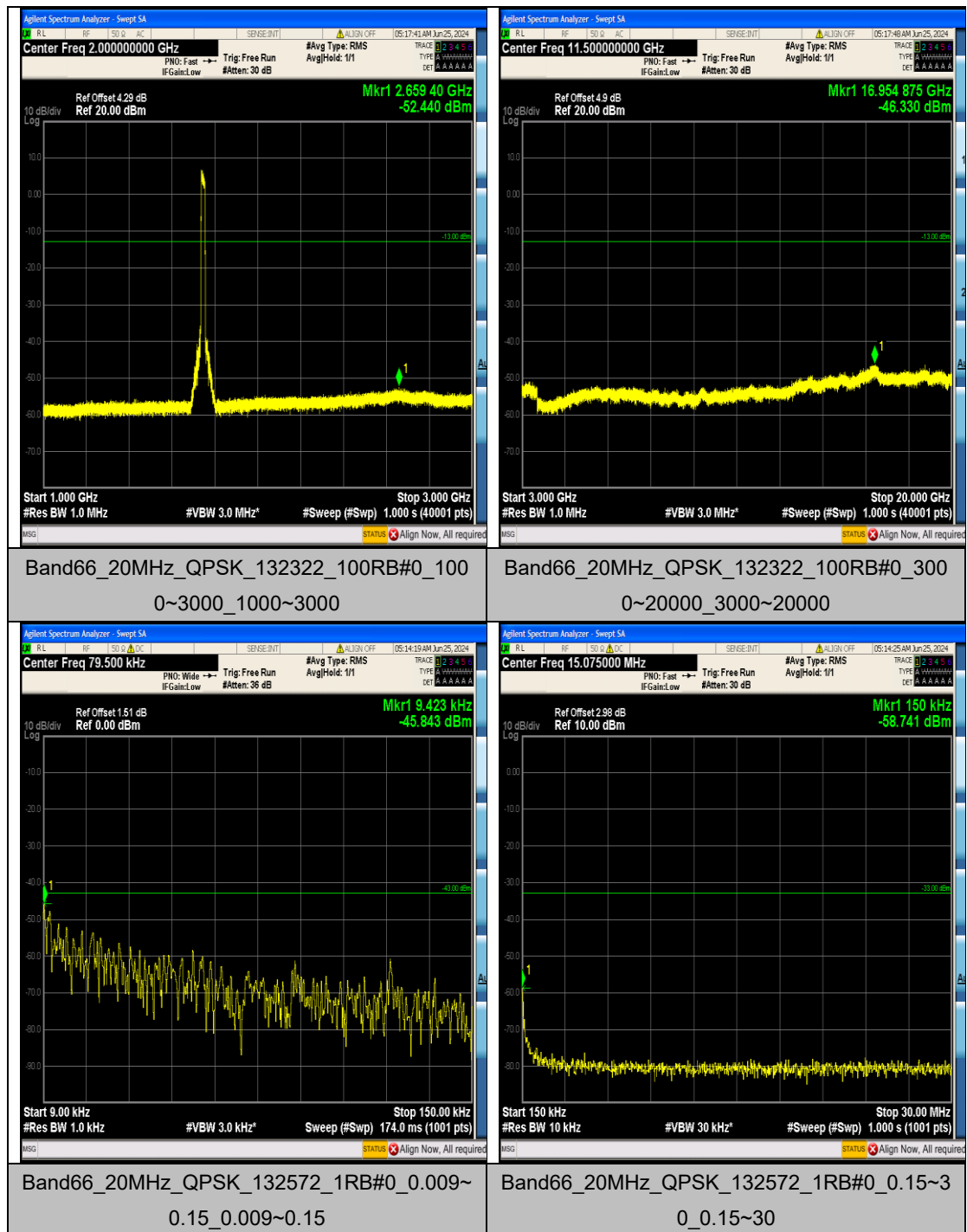


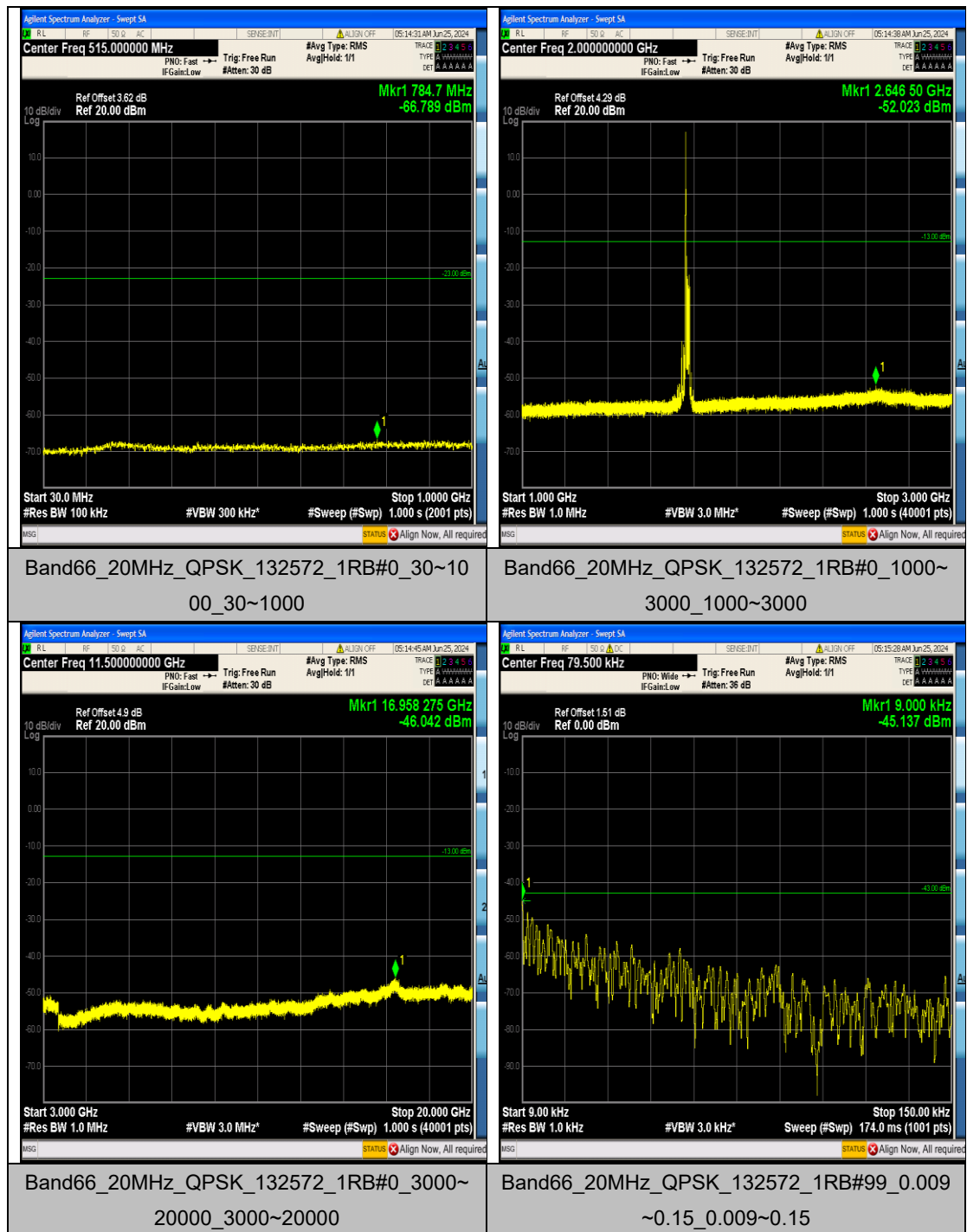




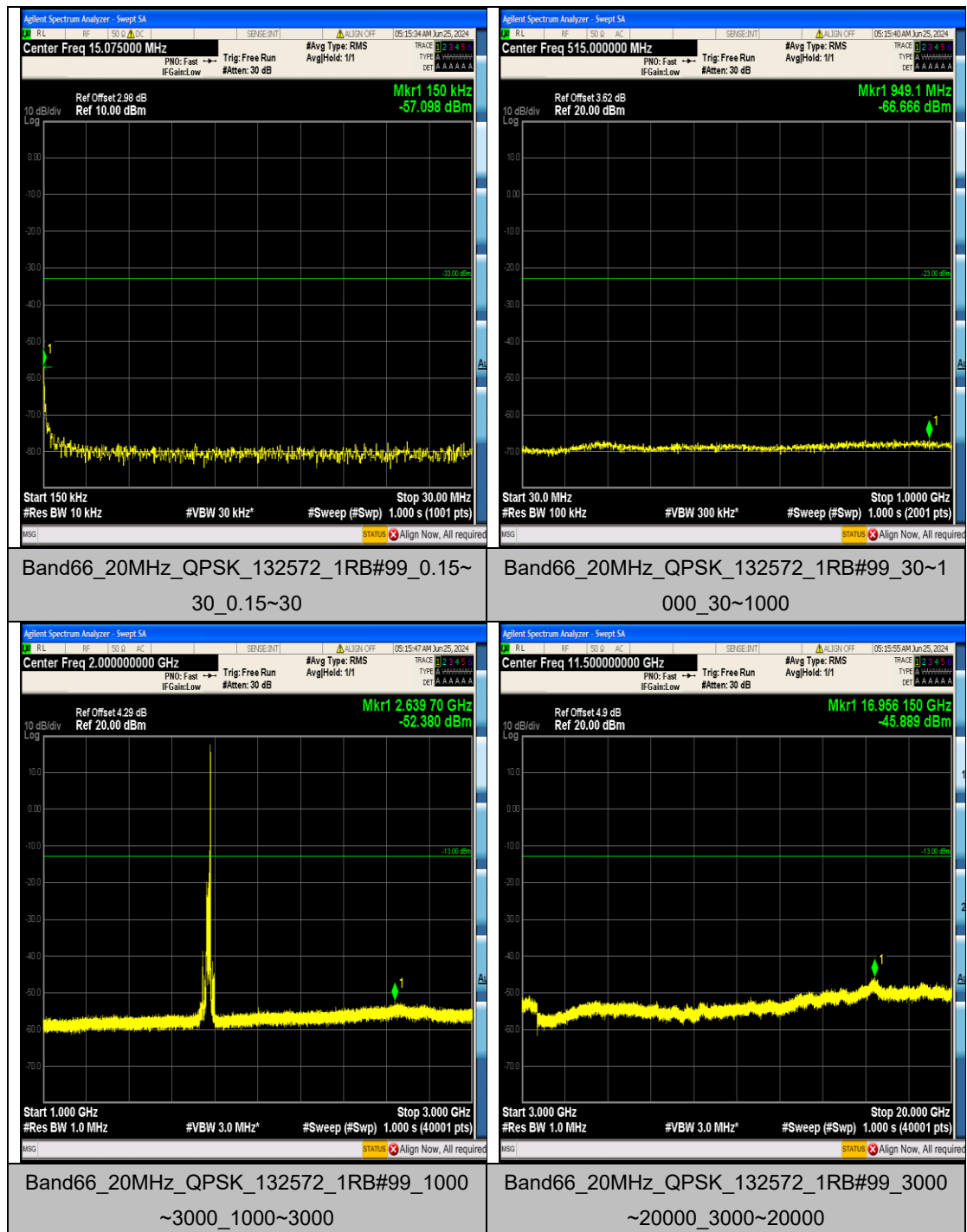


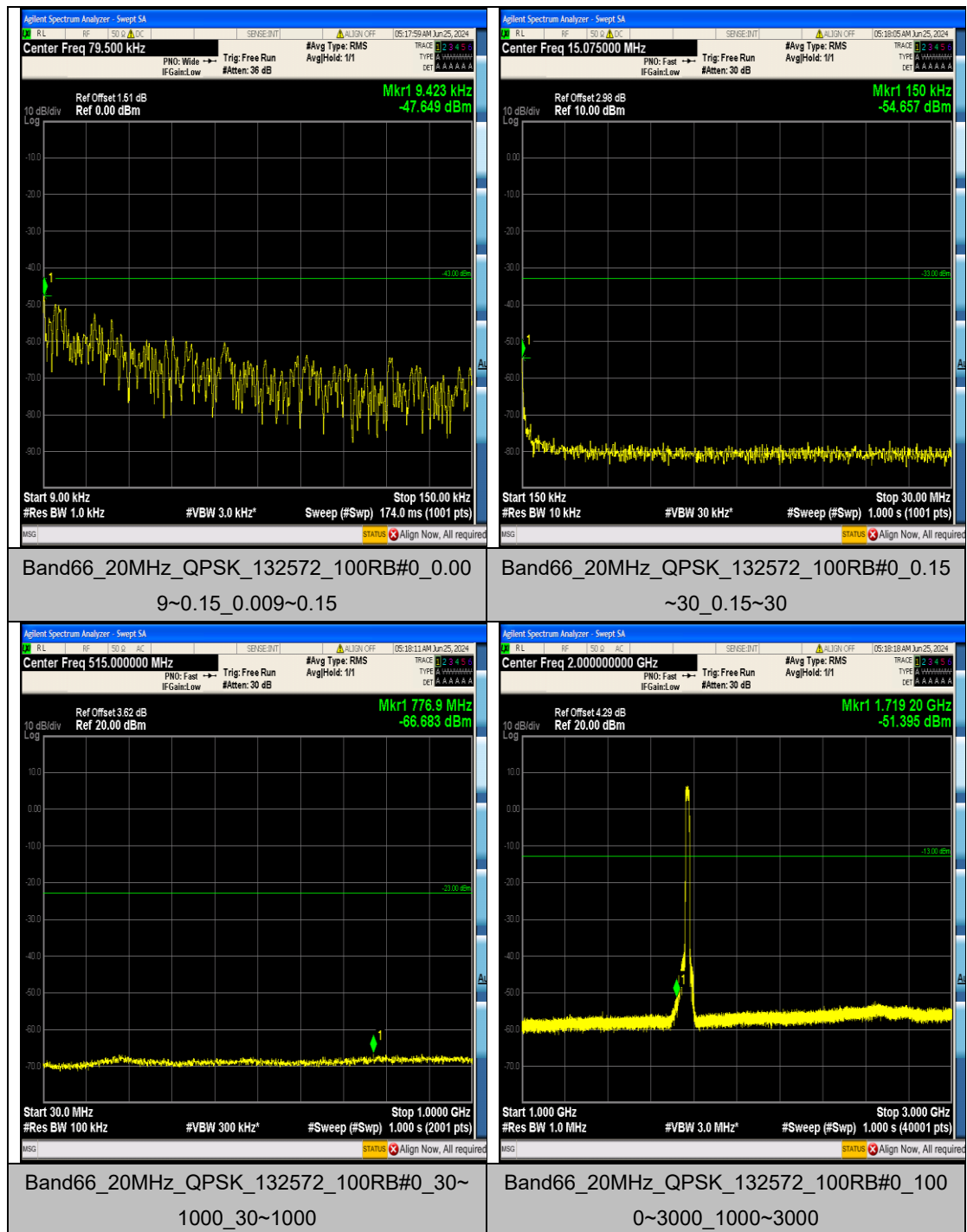


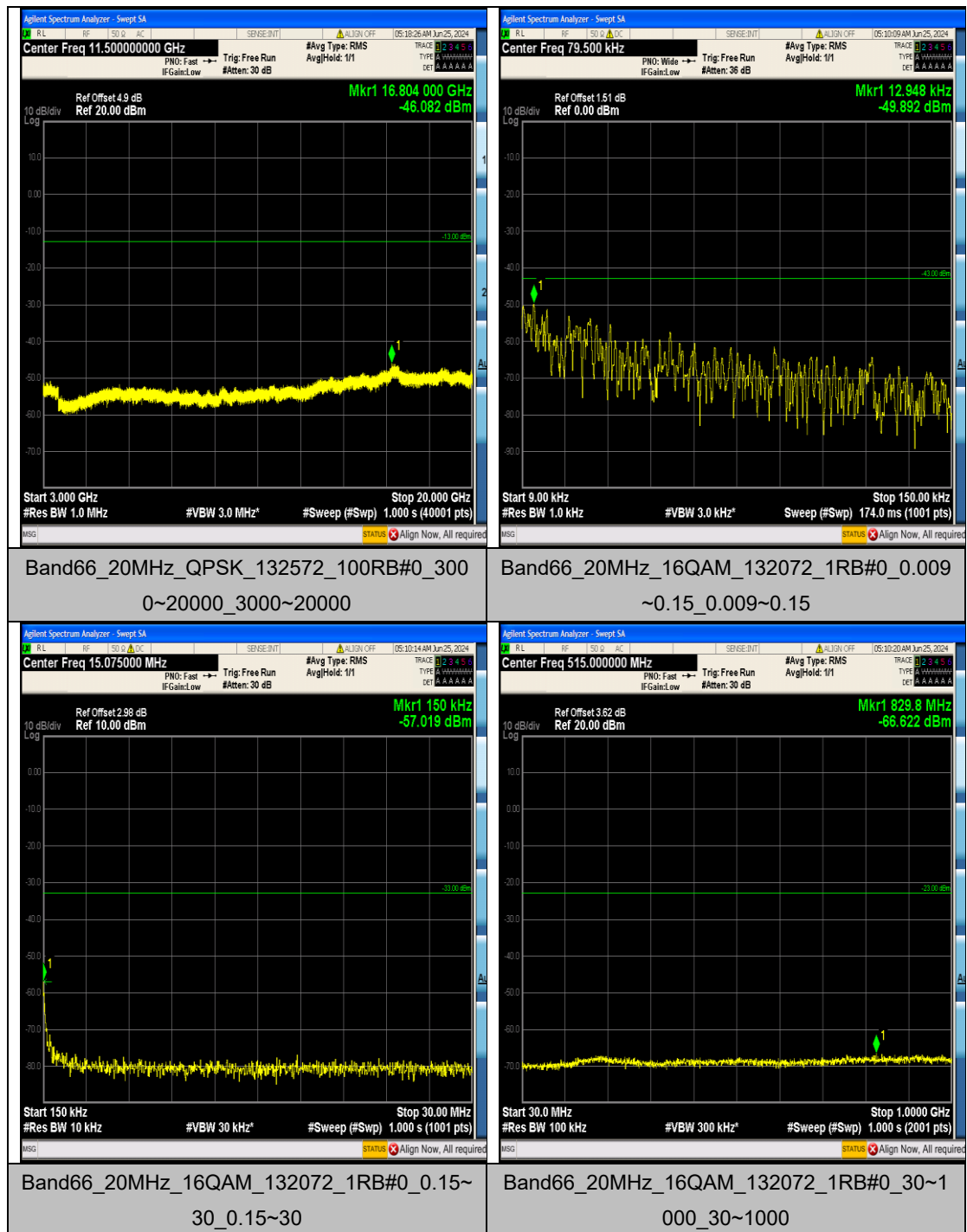


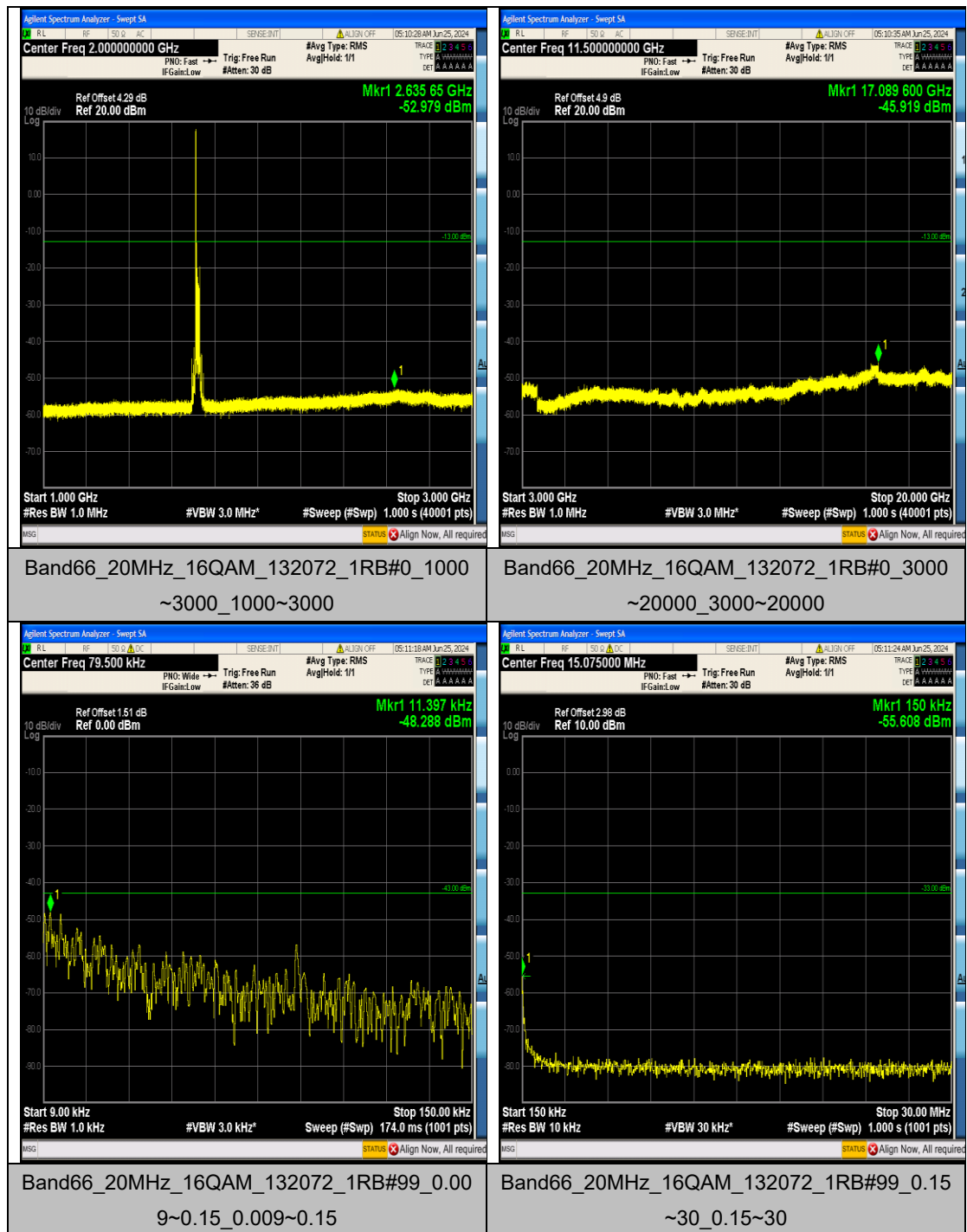


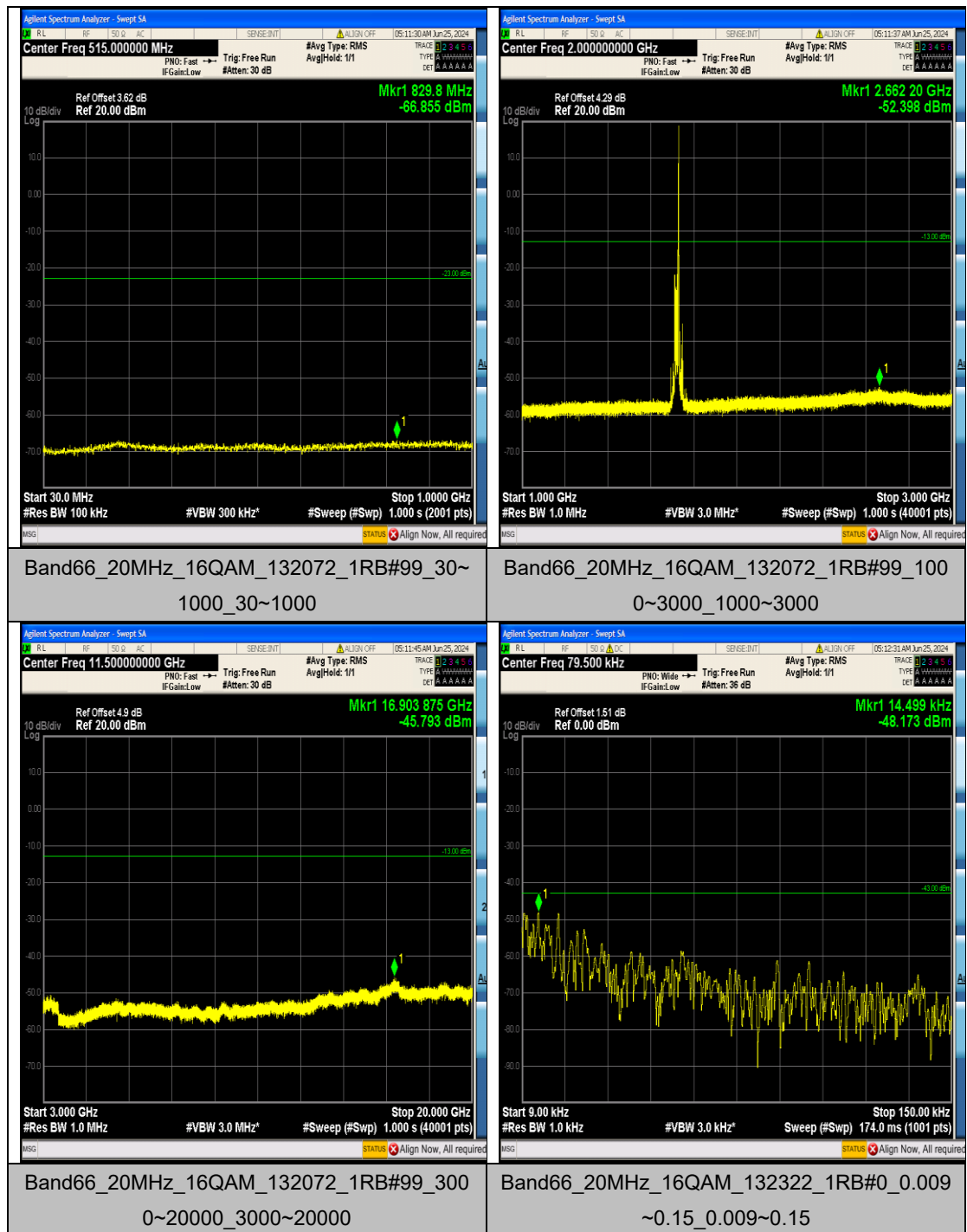


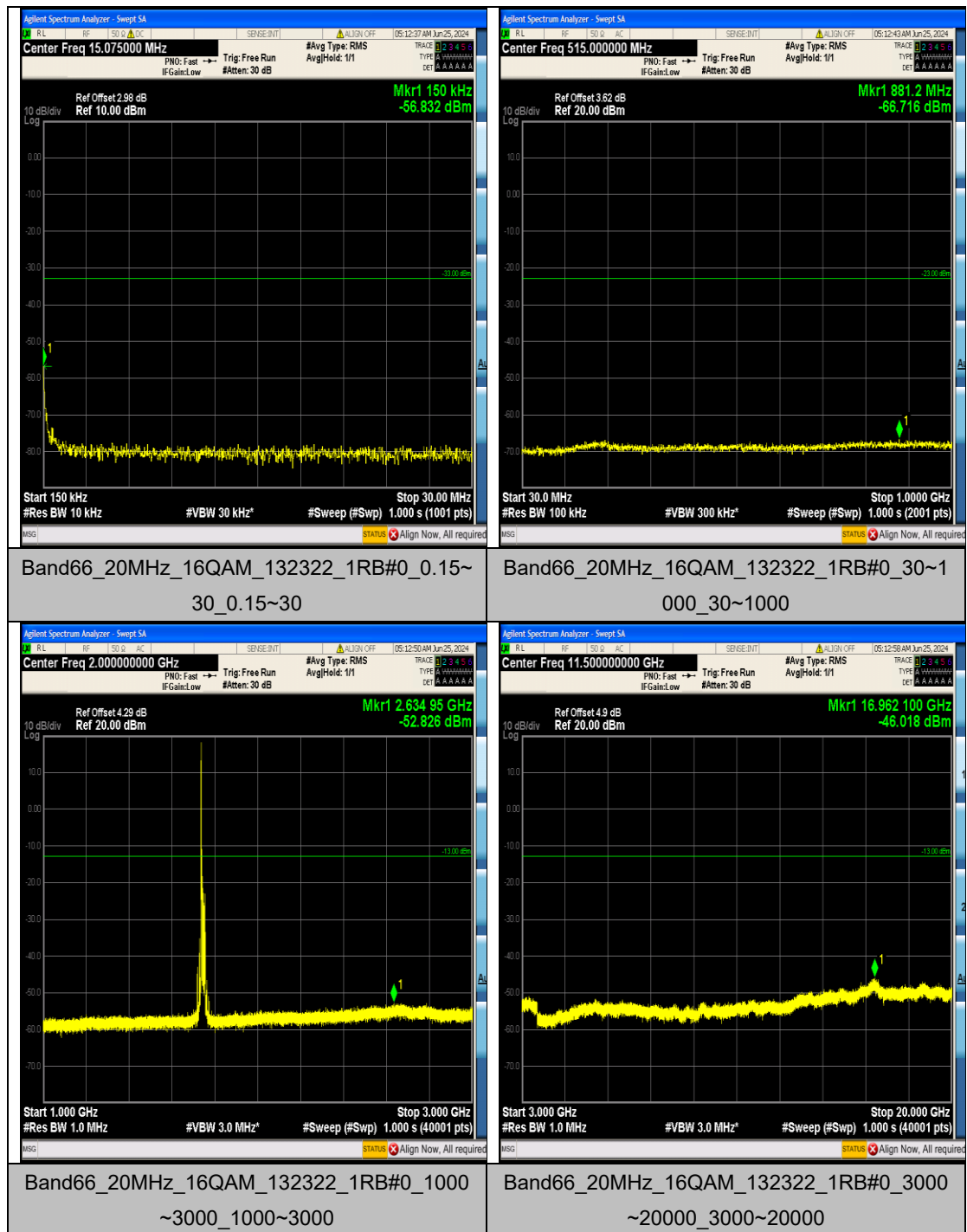


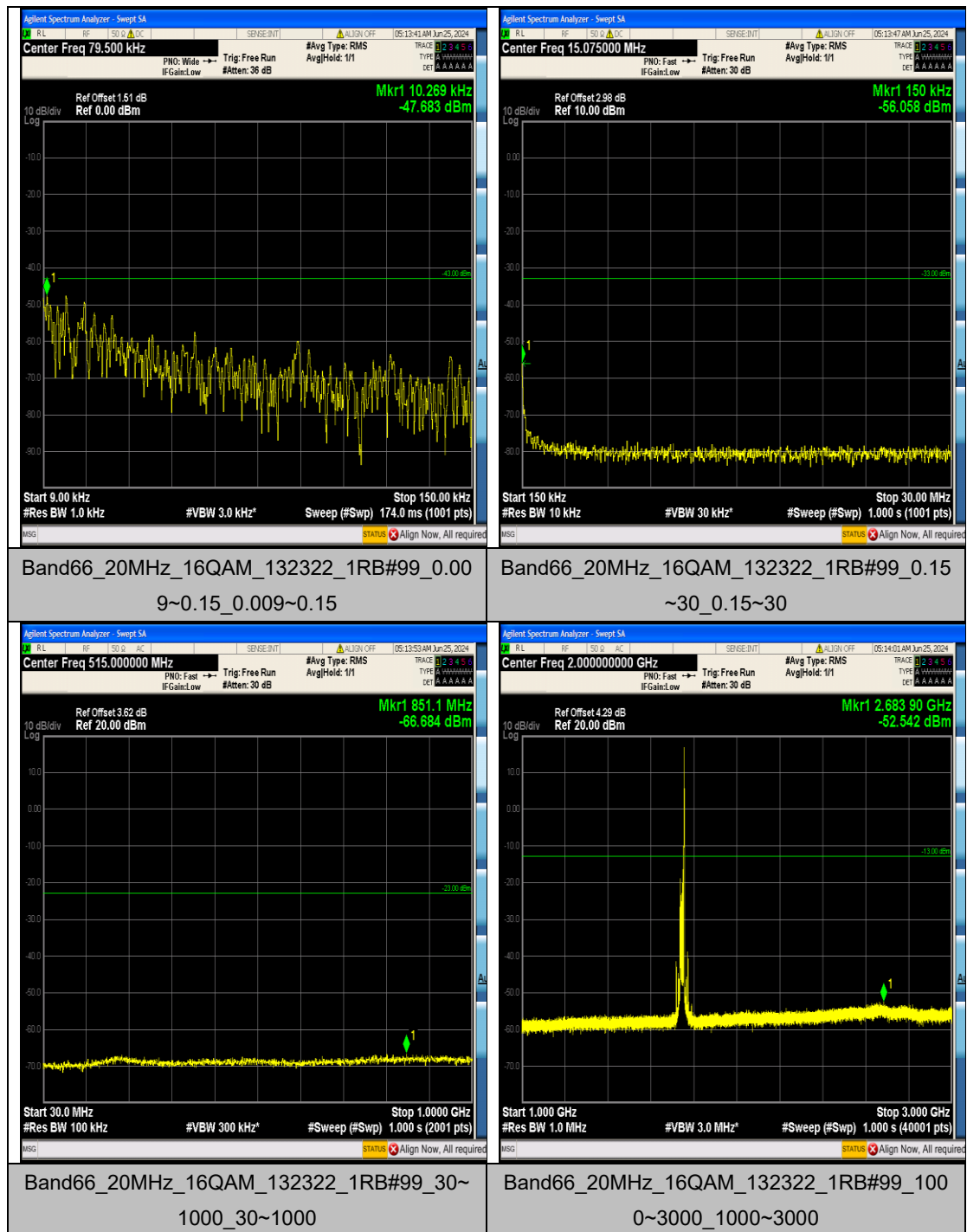


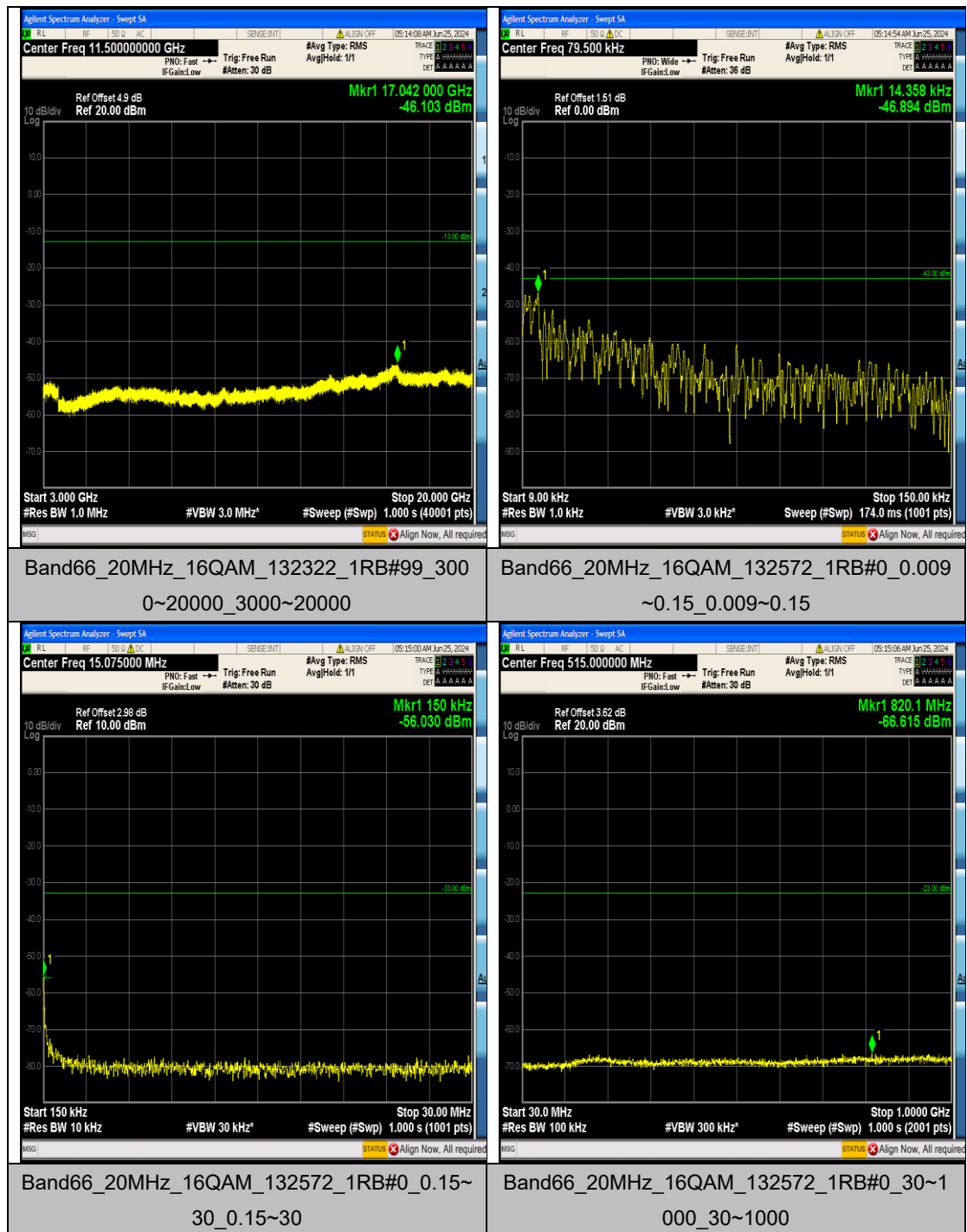




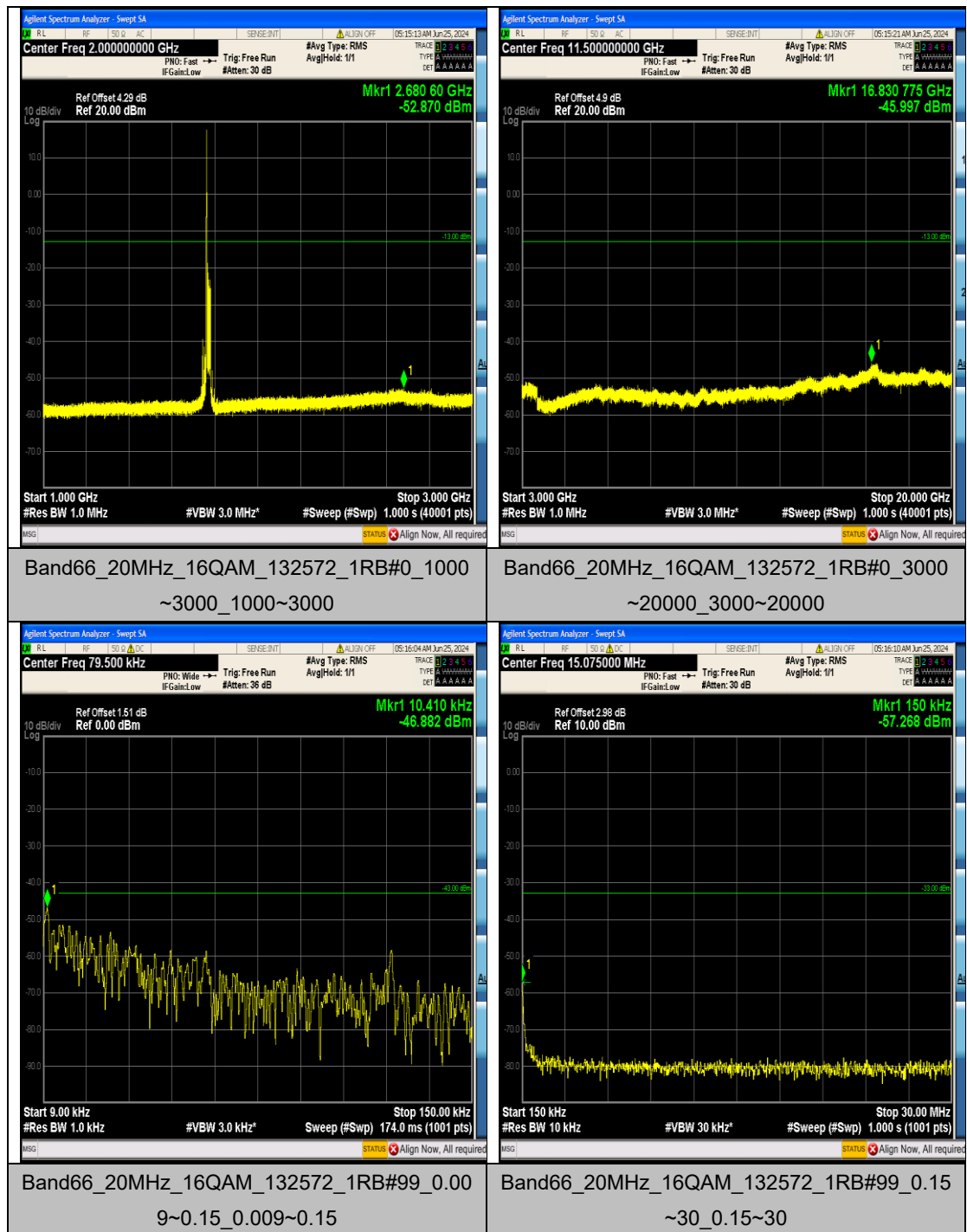


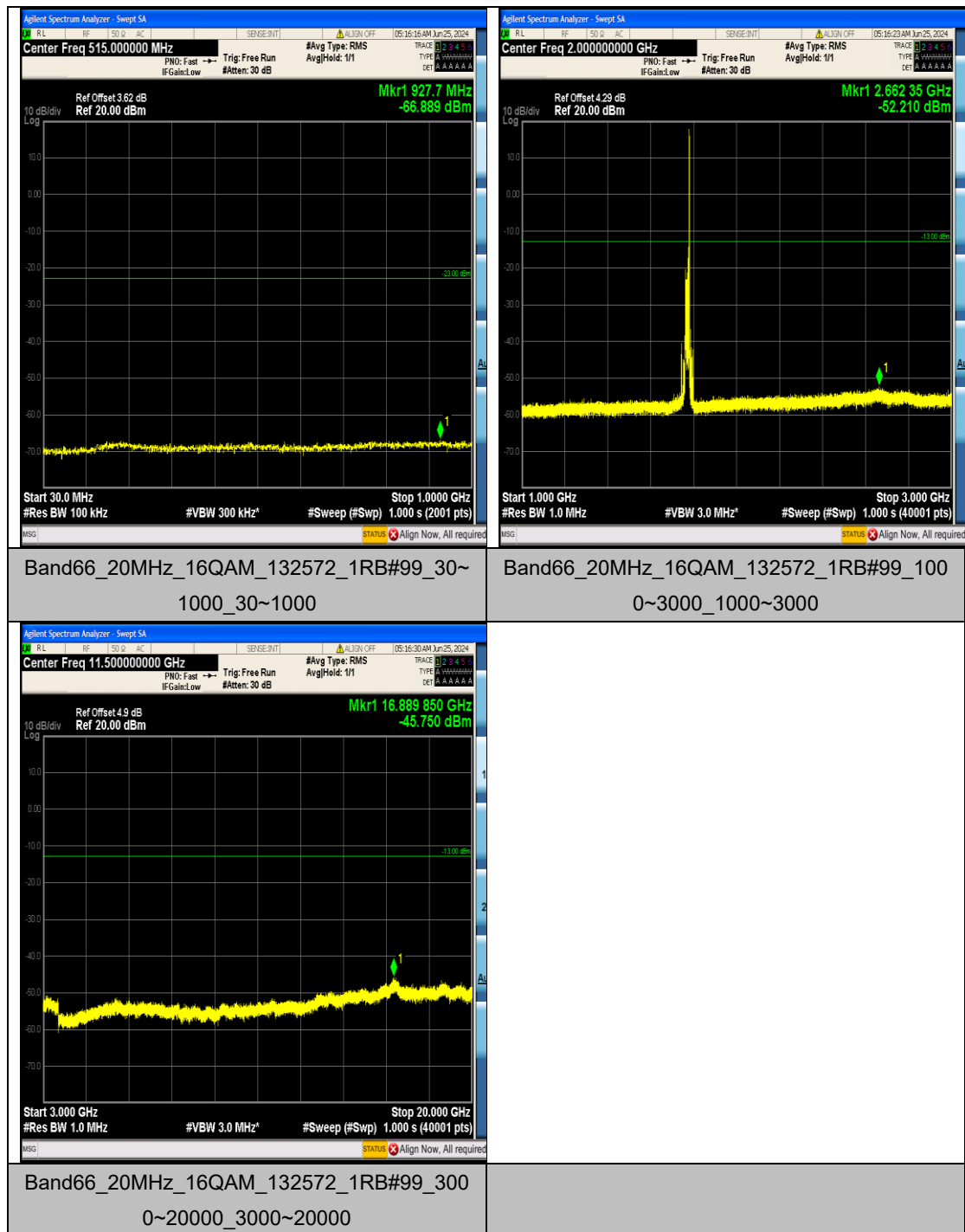












## Appendix F: Frequency Stability

### 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 |
| Band66      | 1.4MHz    | QPSK       | 13197g  | 6RB#0        | NV            | -30              | 21.23          | 0.012410        | ±2.5        | PASS    |
| Band66      | 1.4MHz    | QPSK       | 13197g  | 6RB#0        | NV            | -20              | 22.90          | 0.013386        | ±2.5        | PASS    |
| Band66      | 1.4MHz    | QPSK       | 13197g  | 6RB#0        | NV            | -10              | 22.03          | 0.012878        | ±2.5        | PASS    |
| Band66      | 1.4MHz    | QPSK       | 13197g  | 6RB#0        | NV            | 0                | 20.18          | 0.011796        | ±2.5        | PASS    |
| Band66      | 1.4MHz    | QPSK       | 13197g  | 6RB#0        | NV            | 10               | 22.42          | 0.013106        | ±2.5        | PASS    |
| Band66      | 1.4MHz    | QPSK       | 13197g  | 6RB#0        | NV            | 20               | 23.12          | 0.013515        | ±2.5        | PASS    |
| Band66      | 1.4MHz    | QPSK       | 13197g  | 6RB#0        | NV            | 30               | 22.46          | 0.013129        | ±2.5        | PASS    |
| Band66      | 1.4MHz    | QPSK       | 13197g  | 6RB#0        | NV            | 40               | 20.93          | 0.012235        | ±2.5        | PASS    |
| Band66      | 1.4MHz    | QPSK       | 13197g  | 6RB#0        | NV            | 50               | 22.10          | 0.012919        | ±2.5        | PASS    |
| Band66      | 1.4MHz    | QPSK       | 132322  | 6RB#0        | NV            | -30              | -18.77         | -0.010756       | ±2.5        | PASS    |
| Band66      | 1.4MHz    | QPSK       | 132322  | 6RB#0        | NV            | -20              | -19.54         | -0.011198       | ±2.5        | PASS    |
| Band66      | 1.4MHz    | QPSK       | 132322  | 6RB#0        | NV            | -10              | -18.57         | -0.010642       | ±2.5        | PASS    |
| Band66      | 1.4MHz    | QPSK       | 132322  | 6RB#0        | NV            | 0                | -16.97         | -0.009725       | ±2.5        | PASS    |
| Band66      | 1.4MHz    | QPSK       | 132322  | 6RB#0        | NV            | 10               | -18.77         | -0.010756       | ±2.5        | PASS    |
| Band66      | 1.4MHz    | QPSK       | 132322  | 6RB#0        | NV            | 20               | -19.33         | -0.011077       | ±2.5        | PASS    |

|        |        |       |            |       |    |     |        |           |      |      |
|--------|--------|-------|------------|-------|----|-----|--------|-----------|------|------|
|        |        |       | 2          |       |    |     |        |           |      |      |
| Band66 | 1.4MHz | QPSK  | 13232<br>2 | 6RB#0 | NV | 30  | -19.18 | -0.010991 | ±2.5 | PASS |
| Band66 | 1.4MHz | QPSK  | 13232<br>2 | 6RB#0 | NV | 40  | -18.83 | -0.010791 | ±2.5 | PASS |
| Band66 | 1.4MHz | QPSK  | 13232<br>2 | 6RB#0 | NV | 50  | -21.11 | -0.012097 | ±2.5 | PASS |
| Band66 | 1.4MHz | QPSK  | 13266<br>5 | 6RB#0 | NV | -30 | 4.94   | 0.002776  | ±2.5 | PASS |
| Band66 | 1.4MHz | QPSK  | 13266<br>5 | 6RB#0 | NV | -20 | 16.49  | 0.009268  | ±2.5 | PASS |
| Band66 | 1.4MHz | QPSK  | 13266<br>5 | 6RB#0 | NV | -10 | 20.83  | 0.011707  | ±2.5 | PASS |
| Band66 | 1.4MHz | QPSK  | 13266<br>5 | 6RB#0 | NV | 0   | 19.00  | 0.010678  | ±2.5 | PASS |
| Band66 | 1.4MHz | QPSK  | 13266<br>5 | 6RB#0 | NV | 10  | 22.12  | 0.012432  | ±2.5 | PASS |
| Band66 | 1.4MHz | QPSK  | 13266<br>5 | 6RB#0 | NV | 20  | 20.20  | 0.011353  | ±2.5 | PASS |
| Band66 | 1.4MHz | QPSK  | 13266<br>5 | 6RB#0 | NV | 30  | 18.90  | 0.010622  | ±2.5 | PASS |
| Band66 | 1.4MHz | QPSK  | 13266<br>5 | 6RB#0 | NV | 40  | 20.83  | 0.011707  | ±2.5 | PASS |
| Band66 | 1.4MHz | QPSK  | 13266<br>5 | 6RB#0 | NV | 50  | 17.57  | 0.009875  | ±2.5 | PASS |
| Band66 | 1.4MHz | 16QAM | 13197<br>9 | 6RB#0 | NV | -30 | 15.01  | 0.008774  | ±2.5 | PASS |
| Band66 | 1.4MHz | 16QAM | 13197<br>9 | 6RB#0 | NV | -20 | 13.79  | 0.008061  | ±2.5 | PASS |
| Band66 | 1.4MHz | 16QAM | 13197<br>9 | 6RB#0 | NV | -10 | 8.11   | 0.004741  | ±2.5 | PASS |
| Band66 | 1.4MHz | 16QAM | 13197<br>9 | 6RB#0 | NV | 0   | 4.68   | 0.002736  | ±2.5 | PASS |
| Band66 | 1.4MHz | 16QAM | 13197<br>9 | 6RB#0 | NV | 10  | -10.79 | -0.006307 | ±2.5 | PASS |
| Band66 | 1.4MHz | 16QAM | 13197<br>9 | 6RB#0 | NV | 20  | -10.39 | -0.006074 | ±2.5 | PASS |
| Band66 | 1.4MHz | 16QAM | 13197<br>9 | 6RB#0 | NV | 30  | -14.25 | -0.008330 | ±2.5 | PASS |
| Band66 | 1.4MHz | 16QAM | 13197<br>9 | 6RB#0 | NV | 40  | -13.25 | -0.007745 | ±2.5 | PASS |
| Band66 | 1.4MHz | 16QAM | 13197<br>9 | 6RB#0 | NV | 50  | -15.11 | -0.008833 | ±2.5 | PASS |

|        |        |       |            |        |    |     |        |           |      |      |
|--------|--------|-------|------------|--------|----|-----|--------|-----------|------|------|
| Band66 | 1.4MHz | 16QAM | 13232<br>2 | 6RB#0  | NV | -30 | -21.26 | -0.012183 | ±2.5 | PASS |
| Band66 | 1.4MHz | 16QAM | 13232<br>2 | 6RB#0  | NV | -20 | -19.43 | -0.011135 | ±2.5 | PASS |
| Band66 | 1.4MHz | 16QAM | 13232<br>2 | 6RB#0  | NV | -10 | -23.62 | -0.013536 | ±2.5 | PASS |
| Band66 | 1.4MHz | 16QAM | 13232<br>2 | 6RB#0  | NV | 0   | -21.49 | -0.012315 | ±2.5 | PASS |
| Band66 | 1.4MHz | 16QAM | 13232<br>2 | 6RB#0  | NV | 10  | -19.45 | -0.011146 | ±2.5 | PASS |
| Band66 | 1.4MHz | 16QAM | 13232<br>2 | 6RB#0  | NV | 20  | -19.45 | -0.011146 | ±2.5 | PASS |
| Band66 | 1.4MHz | 16QAM | 13232<br>2 | 6RB#0  | NV | 30  | -17.08 | -0.009788 | ±2.5 | PASS |
| Band66 | 1.4MHz | 16QAM | 13232<br>2 | 6RB#0  | NV | 40  | -19.56 | -0.011209 | ±2.5 | PASS |
| Band66 | 1.4MHz | 16QAM | 13232<br>2 | 6RB#0  | NV | 50  | -20.56 | -0.011782 | ±2.5 | PASS |
| Band66 | 1.4MHz | 16QAM | 13266<br>5 | 6RB#0  | NV | -30 | 12.45  | 0.006997  | ±2.5 | PASS |
| Band66 | 1.4MHz | 16QAM | 13266<br>5 | 6RB#0  | NV | -20 | -9.40  | -0.005283 | ±2.5 | PASS |
| Band66 | 1.4MHz | 16QAM | 13266<br>5 | 6RB#0  | NV | -10 | -11.72 | -0.006587 | ±2.5 | PASS |
| Band66 | 1.4MHz | 16QAM | 13266<br>5 | 6RB#0  | NV | 0   | -16.15 | -0.009077 | ±2.5 | PASS |
| Band66 | 1.4MHz | 16QAM | 13266<br>5 | 6RB#0  | NV | 10  | -16.58 | -0.009318 | ±2.5 | PASS |
| Band66 | 1.4MHz | 16QAM | 13266<br>5 | 6RB#0  | NV | 20  | -18.85 | -0.010594 | ±2.5 | PASS |
| Band66 | 1.4MHz | 16QAM | 13266<br>5 | 6RB#0  | NV | 30  | -18.28 | -0.010274 | ±2.5 | PASS |
| Band66 | 1.4MHz | 16QAM | 13266<br>5 | 6RB#0  | NV | 40  | -21.62 | -0.012151 | ±2.5 | PASS |
| Band66 | 1.4MHz | 16QAM | 13266<br>5 | 6RB#0  | NV | 50  | -18.60 | -0.010454 | ±2.5 | PASS |
| Band66 | 3MHz   | QPSK  | 13198<br>7 | 15RB#0 | NV | -30 | 21.31  | 0.012451  | ±2.5 | PASS |
| Band66 | 3MHz   | QPSK  | 13198<br>7 | 15RB#0 | NV | -20 | 20.46  | 0.011954  | ±2.5 | PASS |
| Band66 | 3MHz   | QPSK  | 13198<br>7 | 15RB#0 | NV | -10 | 22.43  | 0.013105  | ±2.5 | PASS |
| Band66 | 3MHz   | QPSK  | 13198      | 15RB#0 | NV | 0   | 20.77  | 0.012136  | ±2.5 | PASS |

|        |      |      |            |        |    |     |        |           |      |      |
|--------|------|------|------------|--------|----|-----|--------|-----------|------|------|
|        |      |      | 7          |        |    |     |        |           |      |      |
| Band66 | 3MHz | QPSK | 13198<br>7 | 15RB#0 | NV | 10  | 19.04  | 0.011125  | ±2.5 | PASS |
| Band66 | 3MHz | QPSK | 13198<br>7 | 15RB#0 | NV | 20  | 20.18  | 0.011791  | ±2.5 | PASS |
| Band66 | 3MHz | QPSK | 13198<br>7 | 15RB#0 | NV | 30  | 20.71  | 0.012100  | ±2.5 | PASS |
| Band66 | 3MHz | QPSK | 13198<br>7 | 15RB#0 | NV | 40  | 22.07  | 0.012895  | ±2.5 | PASS |
| Band66 | 3MHz | QPSK | 13198<br>7 | 15RB#0 | NV | 50  | 20.03  | 0.011703  | ±2.5 | PASS |
| Band66 | 3MHz | QPSK | 13232<br>2 | 15RB#0 | NV | -30 | -20.64 | -0.011828 | ±2.5 | PASS |
| Band66 | 3MHz | QPSK | 13232<br>2 | 15RB#0 | NV | -20 | -18.90 | -0.010831 | ±2.5 | PASS |
| Band66 | 3MHz | QPSK | 13232<br>2 | 15RB#0 | NV | -10 | -22.02 | -0.012619 | ±2.5 | PASS |
| Band66 | 3MHz | QPSK | 13232<br>2 | 15RB#0 | NV | 0   | -23.12 | -0.013249 | ±2.5 | PASS |
| Band66 | 3MHz | QPSK | 13232<br>2 | 15RB#0 | NV | 10  | -21.90 | -0.012550 | ±2.5 | PASS |
| Band66 | 3MHz | QPSK | 13232<br>2 | 15RB#0 | NV | 20  | -18.68 | -0.010705 | ±2.5 | PASS |
| Band66 | 3MHz | QPSK | 13232<br>2 | 15RB#0 | NV | 30  | -20.24 | -0.011599 | ±2.5 | PASS |
| Band66 | 3MHz | QPSK | 13232<br>2 | 15RB#0 | NV | 40  | -17.71 | -0.010149 | ±2.5 | PASS |
| Band66 | 3MHz | QPSK | 13232<br>2 | 15RB#0 | NV | 50  | -22.82 | -0.013077 | ±2.5 | PASS |
| Band66 | 3MHz | QPSK | 13265<br>7 | 15RB#0 | NV | -30 | -5.06  | -0.002845 | ±2.5 | PASS |
| Band66 | 3MHz | QPSK | 13265<br>7 | 15RB#0 | NV | -20 | 15.06  | 0.008468  | ±2.5 | PASS |
| Band66 | 3MHz | QPSK | 13265<br>7 | 15RB#0 | NV | -10 | 20.84  | 0.011718  | ±2.5 | PASS |
| Band66 | 3MHz | QPSK | 13265<br>7 | 15RB#0 | NV | 0   | 21.13  | 0.011881  | ±2.5 | PASS |
| Band66 | 3MHz | QPSK | 13265<br>7 | 15RB#0 | NV | 10  | 22.06  | 0.012404  | ±2.5 | PASS |
| Band66 | 3MHz | QPSK | 13265<br>7 | 15RB#0 | NV | 20  | 19.76  | 0.011110  | ±2.5 | PASS |
| Band66 | 3MHz | QPSK | 13265<br>7 | 15RB#0 | NV | 30  | 18.60  | 0.010458  | ±2.5 | PASS |

|        |      |       |            |        |    |     |        |           |      |      |
|--------|------|-------|------------|--------|----|-----|--------|-----------|------|------|
| Band66 | 3MHz | QPSK  | 13265<br>7 | 15RB#0 | NV | 40  | 15.51  | 0.008721  | ±2.5 | PASS |
| Band66 | 3MHz | QPSK  | 13265<br>7 | 15RB#0 | NV | 50  | 21.57  | 0.012128  | ±2.5 | PASS |
| Band66 | 3MHz | 16QAM | 13198<br>7 | 15RB#0 | NV | -30 | 5.78   | 0.003377  | ±2.5 | PASS |
| Band66 | 3MHz | 16QAM | 13198<br>7 | 15RB#0 | NV | -20 | -5.31  | -0.003103 | ±2.5 | PASS |
| Band66 | 3MHz | 16QAM | 13198<br>7 | 15RB#0 | NV | -10 | -13.60 | -0.007946 | ±2.5 | PASS |
| Band66 | 3MHz | 16QAM | 13198<br>7 | 15RB#0 | NV | 0   | -16.16 | -0.009442 | ±2.5 | PASS |
| Band66 | 3MHz | 16QAM | 13198<br>7 | 15RB#0 | NV | 10  | -17.17 | -0.010032 | ±2.5 | PASS |
| Band66 | 3MHz | 16QAM | 13198<br>7 | 15RB#0 | NV | 20  | -14.25 | -0.008326 | ±2.5 | PASS |
| Band66 | 3MHz | 16QAM | 13198<br>7 | 15RB#0 | NV | 30  | -19.68 | -0.011499 | ±2.5 | PASS |
| Band66 | 3MHz | 16QAM | 13198<br>7 | 15RB#0 | NV | 40  | -8.34  | -0.004873 | ±2.5 | PASS |
| Band66 | 3MHz | 16QAM | 13198<br>7 | 15RB#0 | NV | 50  | -17.35 | -0.010137 | ±2.5 | PASS |
| Band66 | 3MHz | 16QAM | 13232<br>2 | 15RB#0 | NV | -30 | -18.90 | -0.010831 | ±2.5 | PASS |
| Band66 | 3MHz | 16QAM | 13232<br>2 | 15RB#0 | NV | -20 | -18.61 | -0.010665 | ±2.5 | PASS |
| Band66 | 3MHz | 16QAM | 13232<br>2 | 15RB#0 | NV | -10 | -17.44 | -0.009994 | ±2.5 | PASS |
| Band66 | 3MHz | 16QAM | 13232<br>2 | 15RB#0 | NV | 0   | -19.21 | -0.011009 | ±2.5 | PASS |
| Band66 | 3MHz | 16QAM | 13232<br>2 | 15RB#0 | NV | 10  | -19.23 | -0.011020 | ±2.5 | PASS |
| Band66 | 3MHz | 16QAM | 13232<br>2 | 15RB#0 | NV | 20  | -20.60 | -0.011805 | ±2.5 | PASS |
| Band66 | 3MHz | 16QAM | 13232<br>2 | 15RB#0 | NV | 30  | -18.54 | -0.010625 | ±2.5 | PASS |
| Band66 | 3MHz | 16QAM | 13232<br>2 | 15RB#0 | NV | 40  | -20.18 | -0.011564 | ±2.5 | PASS |
| Band66 | 3MHz | 16QAM | 13232<br>2 | 15RB#0 | NV | 50  | -18.10 | -0.010372 | ±2.5 | PASS |
| Band66 | 3MHz | 16QAM | 13265<br>7 | 15RB#0 | NV | -30 | 5.36   | 0.003014  | ±2.5 | PASS |
| Band66 | 3MHz | 16QAM | 13265      | 15RB#0 | NV | -20 | -6.92  | -0.003891 | ±2.5 | PASS |

|        |      |       |            |        |    |     |        |           |      |      |
|--------|------|-------|------------|--------|----|-----|--------|-----------|------|------|
|        |      |       | 7          |        |    |     |        |           |      |      |
| Band66 | 3MHz | 16QAM | 13265<br>7 | 15RB#0 | NV | -10 | -11.77 | -0.006618 | ±2.5 | PASS |
| Band66 | 3MHz | 16QAM | 13265<br>7 | 15RB#0 | NV | 0   | -14.02 | -0.007883 | ±2.5 | PASS |
| Band66 | 3MHz | 16QAM | 13265<br>7 | 15RB#0 | NV | 10  | -14.41 | -0.008102 | ±2.5 | PASS |
| Band66 | 3MHz | 16QAM | 13265<br>7 | 15RB#0 | NV | 20  | -20.00 | -0.011245 | ±2.5 | PASS |
| Band66 | 3MHz | 16QAM | 13265<br>7 | 15RB#0 | NV | 30  | -19.63 | -0.011037 | ±2.5 | PASS |
| Band66 | 3MHz | 16QAM | 13265<br>7 | 15RB#0 | NV | 40  | -16.21 | -0.009114 | ±2.5 | PASS |
| Band66 | 3MHz | 16QAM | 13265<br>7 | 15RB#0 | NV | 50  | -5.38  | -0.003025 | ±2.5 | PASS |
| Band66 | 5MHz | QPSK  | 13199<br>7 | 25RB#0 | NV | -30 | 18.63  | 0.010879  | ±2.5 | PASS |
| Band66 | 5MHz | QPSK  | 13199<br>7 | 25RB#0 | NV | -20 | 19.61  | 0.011451  | ±2.5 | PASS |
| Band66 | 5MHz | QPSK  | 13199<br>7 | 25RB#0 | NV | -10 | 19.01  | 0.011101  | ±2.5 | PASS |
| Band66 | 5MHz | QPSK  | 13199<br>7 | 25RB#0 | NV | 0   | 19.61  | 0.011451  | ±2.5 | PASS |
| Band66 | 5MHz | QPSK  | 13199<br>7 | 25RB#0 | NV | 10  | 20.36  | 0.011889  | ±2.5 | PASS |
| Band66 | 5MHz | QPSK  | 13199<br>7 | 25RB#0 | NV | 20  | 20.83  | 0.012164  | ±2.5 | PASS |
| Band66 | 5MHz | QPSK  | 13199<br>7 | 25RB#0 | NV | 30  | 20.69  | 0.012082  | ±2.5 | PASS |
| Band66 | 5MHz | QPSK  | 13199<br>7 | 25RB#0 | NV | 40  | 18.90  | 0.011036  | ±2.5 | PASS |
| Band66 | 5MHz | QPSK  | 13199<br>7 | 25RB#0 | NV | 50  | 17.17  | 0.010026  | ±2.5 | PASS |
| Band66 | 5MHz | QPSK  | 13232<br>2 | 25RB#0 | NV | -30 | -21.14 | -0.012115 | ±2.5 | PASS |
| Band66 | 5MHz | QPSK  | 13232<br>2 | 25RB#0 | NV | -20 | -20.63 | -0.011822 | ±2.5 | PASS |
| Band66 | 5MHz | QPSK  | 13232<br>2 | 25RB#0 | NV | -10 | -18.95 | -0.010860 | ±2.5 | PASS |
| Band66 | 5MHz | QPSK  | 13232<br>2 | 25RB#0 | NV | 0   | -20.40 | -0.011691 | ±2.5 | PASS |
| Band66 | 5MHz | QPSK  | 13232<br>2 | 25RB#0 | NV | 10  | -20.23 | -0.011593 | ±2.5 | PASS |



|        |      |       |            |        |    |     |        |           |      |      |
|--------|------|-------|------------|--------|----|-----|--------|-----------|------|------|
| Band66 | 5MHz | QPSK  | 13232<br>2 | 25RB#0 | NV | 20  | -20.81 | -0.011926 | ±2.5 | PASS |
| Band66 | 5MHz | QPSK  | 13232<br>2 | 25RB#0 | NV | 30  | -20.51 | -0.011754 | ±2.5 | PASS |
| Band66 | 5MHz | QPSK  | 13232<br>2 | 25RB#0 | NV | 40  | -21.10 | -0.012092 | ±2.5 | PASS |
| Band66 | 5MHz | QPSK  | 13232<br>2 | 25RB#0 | NV | 50  | -19.86 | -0.011381 | ±2.5 | PASS |
| Band66 | 5MHz | QPSK  | 13264<br>7 | 25RB#0 | NV | -30 | 10.56  | 0.005941  | ±2.5 | PASS |
| Band66 | 5MHz | QPSK  | 13264<br>7 | 25RB#0 | NV | -20 | 18.37  | 0.010335  | ±2.5 | PASS |
| Band66 | 5MHz | QPSK  | 13264<br>7 | 25RB#0 | NV | -10 | 19.64  | 0.011049  | ±2.5 | PASS |
| Band66 | 5MHz | QPSK  | 13264<br>7 | 25RB#0 | NV | 0   | 17.68  | 0.009947  | ±2.5 | PASS |
| Band66 | 5MHz | QPSK  | 13264<br>7 | 25RB#0 | NV | 10  | 19.61  | 0.011032  | ±2.5 | PASS |
| Band66 | 5MHz | QPSK  | 13264<br>7 | 25RB#0 | NV | 20  | 20.33  | 0.011437  | ±2.5 | PASS |
| Band66 | 5MHz | QPSK  | 13264<br>7 | 25RB#0 | NV | 30  | 20.47  | 0.011516  | ±2.5 | PASS |
| Band66 | 5MHz | QPSK  | 13264<br>7 | 25RB#0 | NV | 40  | 21.80  | 0.012264  | ±2.5 | PASS |
| Band66 | 5MHz | QPSK  | 13264<br>7 | 25RB#0 | NV | 50  | 17.77  | 0.009997  | ±2.5 | PASS |
| Band66 | 5MHz | 16QAM | 13199<br>7 | 25RB#0 | NV | -30 | 5.46   | 0.003188  | ±2.5 | PASS |
| Band66 | 5MHz | 16QAM | 13199<br>7 | 25RB#0 | NV | -20 | -8.15  | -0.004759 | ±2.5 | PASS |
| Band66 | 5MHz | 16QAM | 13199<br>7 | 25RB#0 | NV | -10 | -9.00  | -0.005255 | ±2.5 | PASS |
| Band66 | 5MHz | 16QAM | 13199<br>7 | 25RB#0 | NV | 0   | -11.57 | -0.006756 | ±2.5 | PASS |
| Band66 | 5MHz | 16QAM | 13199<br>7 | 25RB#0 | NV | 10  | -15.26 | -0.008911 | ±2.5 | PASS |
| Band66 | 5MHz | 16QAM | 13199<br>7 | 25RB#0 | NV | 20  | -9.47  | -0.005530 | ±2.5 | PASS |
| Band66 | 5MHz | 16QAM | 13199<br>7 | 25RB#0 | NV | 30  | 5.01   | 0.002926  | ±2.5 | PASS |
| Band66 | 5MHz | 16QAM | 13199<br>7 | 25RB#0 | NV | 40  | -7.91  | -0.004619 | ±2.5 | PASS |
| Band66 | 5MHz | 16QAM | 13199      | 25RB#0 | NV | 50  | 8.03   | 0.004689  | ±2.5 | PASS |

|        |       |       |            |        |    |     |        |           |      |      |
|--------|-------|-------|------------|--------|----|-----|--------|-----------|------|------|
|        |       |       | 7          |        |    |     |        |           |      |      |
| Band66 | 5MHz  | 16QAM | 13232<br>2 | 25RB#0 | NV | -30 | -22.72 | -0.013020 | ±2.5 | PASS |
| Band66 | 5MHz  | 16QAM | 13232<br>2 | 25RB#0 | NV | -20 | -20.38 | -0.011679 | ±2.5 | PASS |
| Band66 | 5MHz  | 16QAM | 13232<br>2 | 25RB#0 | NV | -10 | -22.29 | -0.012774 | ±2.5 | PASS |
| Band66 | 5MHz  | 16QAM | 13232<br>2 | 25RB#0 | NV | 0   | -18.98 | -0.010877 | ±2.5 | PASS |
| Band66 | 5MHz  | 16QAM | 13232<br>2 | 25RB#0 | NV | 10  | -22.13 | -0.012682 | ±2.5 | PASS |
| Band66 | 5MHz  | 16QAM | 13232<br>2 | 25RB#0 | NV | 20  | -20.36 | -0.011668 | ±2.5 | PASS |
| Band66 | 5MHz  | 16QAM | 13232<br>2 | 25RB#0 | NV | 30  | -21.79 | -0.012487 | ±2.5 | PASS |
| Band66 | 5MHz  | 16QAM | 13232<br>2 | 25RB#0 | NV | 40  | -20.21 | -0.011582 | ±2.5 | PASS |
| Band66 | 5MHz  | 16QAM | 13232<br>2 | 25RB#0 | NV | 50  | -21.70 | -0.012436 | ±2.5 | PASS |
| Band66 | 5MHz  | 16QAM | 13264<br>7 | 25RB#0 | NV | -30 | 4.66   | 0.002622  | ±2.5 | PASS |
| Band66 | 5MHz  | 16QAM | 13264<br>7 | 25RB#0 | NV | -20 | 4.41   | 0.002481  | ±2.5 | PASS |
| Band66 | 5MHz  | 16QAM | 13264<br>7 | 25RB#0 | NV | -10 | -15.09 | -0.008489 | ±2.5 | PASS |
| Band66 | 5MHz  | 16QAM | 13264<br>7 | 25RB#0 | NV | 0   | -17.85 | -0.010042 | ±2.5 | PASS |
| Band66 | 5MHz  | 16QAM | 13264<br>7 | 25RB#0 | NV | 10  | -20.18 | -0.011353 | ±2.5 | PASS |
| Band66 | 5MHz  | 16QAM | 13264<br>7 | 25RB#0 | NV | 20  | -13.68 | -0.007696 | ±2.5 | PASS |
| Band66 | 5MHz  | 16QAM | 13264<br>7 | 25RB#0 | NV | 30  | -16.32 | -0.009181 | ±2.5 | PASS |
| Band66 | 5MHz  | 16QAM | 13264<br>7 | 25RB#0 | NV | 40  | -12.59 | -0.007083 | ±2.5 | PASS |
| Band66 | 5MHz  | 16QAM | 13264<br>7 | 25RB#0 | NV | 50  | -15.34 | -0.008630 | ±2.5 | PASS |
| Band66 | 10MHz | QPSK  | 13202<br>2 | 50RB#0 | NV | -30 | 18.68  | 0.010892  | ±2.5 | PASS |
| Band66 | 10MHz | QPSK  | 13202<br>2 | 50RB#0 | NV | -20 | 18.85  | 0.010991  | ±2.5 | PASS |
| Band66 | 10MHz | QPSK  | 13202<br>2 | 50RB#0 | NV | -10 | 22.73  | 0.013254  | ±2.5 | PASS |

|        |       |      |            |        |    |     |        |           |      |      |
|--------|-------|------|------------|--------|----|-----|--------|-----------|------|------|
| Band66 | 10MHz | QPSK | 13202<br>2 | 50RB#0 | NV | 0   | 21.09  | 0.012297  | ±2.5 | PASS |
| Band66 | 10MHz | QPSK | 13202<br>2 | 50RB#0 | NV | 10  | 19.00  | 0.011079  | ±2.5 | PASS |
| Band66 | 10MHz | QPSK | 13202<br>2 | 50RB#0 | NV | 20  | 20.86  | 0.012163  | ±2.5 | PASS |
| Band66 | 10MHz | QPSK | 13202<br>2 | 50RB#0 | NV | 30  | 19.44  | 0.011335  | ±2.5 | PASS |
| Band66 | 10MHz | QPSK | 13202<br>2 | 50RB#0 | NV | 40  | 21.34  | 0.012443  | ±2.5 | PASS |
| Band66 | 10MHz | QPSK | 13202<br>2 | 50RB#0 | NV | 50  | 18.94  | 0.011044  | ±2.5 | PASS |
| Band66 | 10MHz | QPSK | 13232<br>2 | 50RB#0 | NV | -30 | -22.43 | -0.012854 | ±2.5 | PASS |
| Band66 | 10MHz | QPSK | 13232<br>2 | 50RB#0 | NV | -20 | -19.83 | -0.011364 | ±2.5 | PASS |
| Band66 | 10MHz | QPSK | 13232<br>2 | 50RB#0 | NV | -10 | -21.43 | -0.012281 | ±2.5 | PASS |
| Band66 | 10MHz | QPSK | 13232<br>2 | 50RB#0 | NV | 0   | -17.92 | -0.010269 | ±2.5 | PASS |
| Band66 | 10MHz | QPSK | 13232<br>2 | 50RB#0 | NV | 10  | -16.65 | -0.009542 | ±2.5 | PASS |
| Band66 | 10MHz | QPSK | 13232<br>2 | 50RB#0 | NV | 20  | -22.33 | -0.012797 | ±2.5 | PASS |
| Band66 | 10MHz | QPSK | 13232<br>2 | 50RB#0 | NV | 30  | -19.73 | -0.011307 | ±2.5 | PASS |
| Band66 | 10MHz | QPSK | 13232<br>2 | 50RB#0 | NV | 40  | -21.63 | -0.012395 | ±2.5 | PASS |
| Band66 | 10MHz | QPSK | 13232<br>2 | 50RB#0 | NV | 50  | -20.33 | -0.011650 | ±2.5 | PASS |
| Band66 | 10MHz | QPSK | 13262<br>2 | 50RB#0 | NV | -30 | -8.68  | -0.004890 | ±2.5 | PASS |
| Band66 | 10MHz | QPSK | 13262<br>2 | 50RB#0 | NV | -20 | 6.74   | 0.003797  | ±2.5 | PASS |
| Band66 | 10MHz | QPSK | 13262<br>2 | 50RB#0 | NV | -10 | 16.19  | 0.009121  | ±2.5 | PASS |
| Band66 | 10MHz | QPSK | 13262<br>2 | 50RB#0 | NV | 0   | 22.07  | 0.012434  | ±2.5 | PASS |
| Band66 | 10MHz | QPSK | 13262<br>2 | 50RB#0 | NV | 10  | 18.22  | 0.010265  | ±2.5 | PASS |
| Band66 | 10MHz | QPSK | 13262<br>2 | 50RB#0 | NV | 20  | 14.71  | 0.008287  | ±2.5 | PASS |
| Band66 | 10MHz | QPSK | 13262      | 50RB#0 | NV | 30  | 16.84  | 0.009487  | ±2.5 | PASS |

|        |       |      |            |        |    |     |        |           |      |      |
|--------|-------|------|------------|--------|----|-----|--------|-----------|------|------|
|        |       |      | 2          |        |    |     |        |           |      |      |
| Band66 | 10MHz | QPSK | 13262<br>2 | 50RB#0 | NV | 40  | 21.34  | 0.012023  | ±2.5 | PASS |
| Band66 | 10MHz | QPSK | 13262<br>2 | 50RB#0 | NV | 50  | 18.41  | 0.010372  | ±2.5 | PASS |
| Band66 | 15MHz | QPSK | 13204<br>7 | 75RB#0 | NV | -30 | 21.04  | 0.012250  | ±2.5 | PASS |
| Band66 | 15MHz | QPSK | 13204<br>7 | 75RB#0 | NV | -20 | 17.81  | 0.010370  | ±2.5 | PASS |
| Band66 | 15MHz | QPSK | 13204<br>7 | 75RB#0 | NV | -10 | 22.97  | 0.013374  | ±2.5 | PASS |
| Band66 | 15MHz | QPSK | 13204<br>7 | 75RB#0 | NV | 0   | 17.55  | 0.010218  | ±2.5 | PASS |
| Band66 | 15MHz | QPSK | 13204<br>7 | 75RB#0 | NV | 10  | 16.92  | 0.009852  | ±2.5 | PASS |
| Band66 | 15MHz | QPSK | 13204<br>7 | 75RB#0 | NV | 20  | 17.12  | 0.009968  | ±2.5 | PASS |
| Band66 | 15MHz | QPSK | 13204<br>7 | 75RB#0 | NV | 30  | 17.47  | 0.010172  | ±2.5 | PASS |
| Band66 | 15MHz | QPSK | 13204<br>7 | 75RB#0 | NV | 40  | 16.82  | 0.009793  | ±2.5 | PASS |
| Band66 | 15MHz | QPSK | 13204<br>7 | 75RB#0 | NV | 50  | 20.40  | 0.011878  | ±2.5 | PASS |
| Band66 | 15MHz | QPSK | 13232<br>2 | 75RB#0 | NV | -30 | -21.79 | -0.012487 | ±2.5 | PASS |
| Band66 | 15MHz | QPSK | 13232<br>2 | 75RB#0 | NV | -20 | -22.23 | -0.012739 | ±2.5 | PASS |
| Band66 | 15MHz | QPSK | 13232<br>2 | 75RB#0 | NV | -10 | -21.73 | -0.012453 | ±2.5 | PASS |
| Band66 | 15MHz | QPSK | 13232<br>2 | 75RB#0 | NV | 0   | -19.64 | -0.011255 | ±2.5 | PASS |
| Band66 | 15MHz | QPSK | 13232<br>2 | 75RB#0 | NV | 10  | -23.29 | -0.013347 | ±2.5 | PASS |
| Band66 | 15MHz | QPSK | 13232<br>2 | 75RB#0 | NV | 20  | -19.27 | -0.011043 | ±2.5 | PASS |
| Band66 | 15MHz | QPSK | 13232<br>2 | 75RB#0 | NV | 30  | -21.51 | -0.012327 | ±2.5 | PASS |
| Band66 | 15MHz | QPSK | 13232<br>2 | 75RB#0 | NV | 40  | -24.82 | -0.014223 | ±2.5 | PASS |
| Band66 | 15MHz | QPSK | 13232<br>2 | 75RB#0 | NV | 50  | -21.70 | -0.012436 | ±2.5 | PASS |
| Band66 | 15MHz | QPSK | 13259<br>7 | 75RB#0 | NV | -30 | 19.96  | 0.011261  | ±2.5 | PASS |

|        |       |      |            |         |    |     |        |           |      |      |
|--------|-------|------|------------|---------|----|-----|--------|-----------|------|------|
| Band66 | 15MHz | QPSK | 13259<br>7 | 75RB#0  | NV | -20 | 22.07  | 0.012451  | ±2.5 | PASS |
| Band66 | 15MHz | QPSK | 13259<br>7 | 75RB#0  | NV | -10 | 18.83  | 0.010623  | ±2.5 | PASS |
| Band66 | 15MHz | QPSK | 13259<br>7 | 75RB#0  | NV | 0   | 16.84  | 0.009501  | ±2.5 | PASS |
| Band66 | 15MHz | QPSK | 13259<br>7 | 75RB#0  | NV | 10  | 13.13  | 0.007408  | ±2.5 | PASS |
| Band66 | 15MHz | QPSK | 13259<br>7 | 75RB#0  | NV | 20  | 19.31  | 0.010894  | ±2.5 | PASS |
| Band66 | 15MHz | QPSK | 13259<br>7 | 75RB#0  | NV | 30  | 18.95  | 0.010691  | ±2.5 | PASS |
| Band66 | 15MHz | QPSK | 13259<br>7 | 75RB#0  | NV | 40  | 17.68  | 0.009975  | ±2.5 | PASS |
| Band66 | 15MHz | QPSK | 13259<br>7 | 75RB#0  | NV | 50  | 16.35  | 0.009224  | ±2.5 | PASS |
| Band66 | 20MHz | QPSK | 13207<br>2 | 100RB#0 | NV | -30 | 18.94  | 0.011012  | ±2.5 | PASS |
| Band66 | 20MHz | QPSK | 13207<br>2 | 100RB#0 | NV | -20 | 20.30  | 0.011802  | ±2.5 | PASS |
| Band66 | 20MHz | QPSK | 13207<br>2 | 100RB#0 | NV | -10 | 18.24  | 0.010605  | ±2.5 | PASS |
| Band66 | 20MHz | QPSK | 13207<br>2 | 100RB#0 | NV | 0   | 18.73  | 0.010890  | ±2.5 | PASS |
| Band66 | 20MHz | QPSK | 13207<br>2 | 100RB#0 | NV | 10  | 16.32  | 0.009488  | ±2.5 | PASS |
| Band66 | 20MHz | QPSK | 13207<br>2 | 100RB#0 | NV | 20  | 18.20  | 0.010581  | ±2.5 | PASS |
| Band66 | 20MHz | QPSK | 13207<br>2 | 100RB#0 | NV | 30  | 17.11  | 0.009948  | ±2.5 | PASS |
| Band66 | 20MHz | QPSK | 13207<br>2 | 100RB#0 | NV | 40  | 18.65  | 0.010843  | ±2.5 | PASS |
| Band66 | 20MHz | QPSK | 13207<br>2 | 100RB#0 | NV | 50  | 21.47  | 0.012483  | ±2.5 | PASS |
| Band66 | 20MHz | QPSK | 13232<br>2 | 100RB#0 | NV | -30 | -17.35 | -0.009943 | ±2.5 | PASS |
| Band66 | 20MHz | QPSK | 13232<br>2 | 100RB#0 | NV | -20 | -22.50 | -0.012894 | ±2.5 | PASS |
| Band66 | 20MHz | QPSK | 13232<br>2 | 100RB#0 | NV | -10 | -21.01 | -0.012040 | ±2.5 | PASS |
| Band66 | 20MHz | QPSK | 13232<br>2 | 100RB#0 | NV | 0   | -21.09 | -0.012086 | ±2.5 | PASS |
| Band66 | 20MHz | QPSK | 13232      | 100RB#0 | NV | 10  | -20.44 | -0.011713 | ±2.5 | PASS |

|        |       |      |            |         |    |     |        |           |      |      |
|--------|-------|------|------------|---------|----|-----|--------|-----------|------|------|
|        |       |      | 2          |         |    |     |        |           |      |      |
| Band66 | 20MHz | QPSK | 13232<br>2 | 100RB#0 | NV | 20  | -19.45 | -0.011146 | ±2.5 | PASS |
| Band66 | 20MHz | QPSK | 13232<br>2 | 100RB#0 | NV | 30  | -19.90 | -0.011404 | ±2.5 | PASS |
| Band66 | 20MHz | QPSK | 13232<br>2 | 100RB#0 | NV | 40  | -23.17 | -0.013278 | ±2.5 | PASS |
| Band66 | 20MHz | QPSK | 13232<br>2 | 100RB#0 | NV | 50  | -17.95 | -0.010287 | ±2.5 | PASS |
| Band66 | 20MHz | QPSK | 13257<br>2 | 100RB#0 | NV | -30 | 19.90  | 0.011243  | ±2.5 | PASS |
| Band66 | 20MHz | QPSK | 13257<br>2 | 100RB#0 | NV | -20 | 20.16  | 0.011390  | ±2.5 | PASS |
| Band66 | 20MHz | QPSK | 13257<br>2 | 100RB#0 | NV | -10 | 18.57  | 0.010492  | ±2.5 | PASS |
| Band66 | 20MHz | QPSK | 13257<br>2 | 100RB#0 | NV | 0   | 15.23  | 0.008605  | ±2.5 | PASS |
| Band66 | 20MHz | QPSK | 13257<br>2 | 100RB#0 | NV | 10  | 19.61  | 0.011079  | ±2.5 | PASS |
| Band66 | 20MHz | QPSK | 13257<br>2 | 100RB#0 | NV | 20  | 20.01  | 0.011305  | ±2.5 | PASS |
| Band66 | 20MHz | QPSK | 13257<br>2 | 100RB#0 | NV | 30  | 18.88  | 0.010667  | ±2.5 | PASS |
| Band66 | 20MHz | QPSK | 13257<br>2 | 100RB#0 | NV | 40  | 15.13  | 0.008548  | ±2.5 | PASS |
| Band66 | 20MHz | QPSK | 13257<br>2 | 100RB#0 | NV | 50  | 20.71  | 0.011701  | ±2.5 | PASS |

## Appendix G: Modulation Characteristics

### Test Result

| Band   | Bandwidth | Modulation | Channel | RB Configuration | Verdict |
|--------|-----------|------------|---------|------------------|---------|
| Band66 | 1.4MHz    | QPSK       | 131979  | 6RB#0            | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132322  | 6RB#0            | PASS    |
| Band66 | 1.4MHz    | QPSK       | 132665  | 6RB#0            | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 131979  | 6RB#0            | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132322  | 6RB#0            | PASS    |
| Band66 | 1.4MHz    | 16QAM      | 132665  | 6RB#0            | PASS    |
| Band66 | 3MHz      | QPSK       | 131987  | 15RB#0           | PASS    |
| Band66 | 3MHz      | QPSK       | 132322  | 15RB#0           | PASS    |
| Band66 | 3MHz      | QPSK       | 132657  | 15RB#0           | PASS    |
| Band66 | 3MHz      | 16QAM      | 131987  | 15RB#0           | PASS    |
| Band66 | 3MHz      | 16QAM      | 132322  | 15RB#0           | PASS    |
| Band66 | 3MHz      | 16QAM      | 132657  | 15RB#0           | PASS    |
| Band66 | 5MHz      | QPSK       | 131997  | 25RB#0           | PASS    |
| Band66 | 5MHz      | QPSK       | 132322  | 25RB#0           | PASS    |
| Band66 | 5MHz      | QPSK       | 132647  | 25RB#0           | PASS    |
| Band66 | 5MHz      | 16QAM      | 131997  | 25RB#0           | PASS    |
| Band66 | 5MHz      | 16QAM      | 132322  | 25RB#0           | PASS    |
| Band66 | 5MHz      | 16QAM      | 132647  | 25RB#0           | PASS    |
| Band66 | 10MHz     | QPSK       | 132022  | 50RB#0           | PASS    |
| Band66 | 10MHz     | QPSK       | 132322  | 50RB#0           | PASS    |
| Band66 | 10MHz     | QPSK       | 132622  | 50RB#0           | PASS    |
| Band66 | 10MHz     | 16QAM      | 132022  | 1RB#0            | PASS    |
| Band66 | 10MHz     | 16QAM      | 132322  | 1RB#0            | PASS    |
| Band66 | 10MHz     | 16QAM      | 132622  | 1RB#0            | PASS    |
| Band66 | 15MHz     | QPSK       | 132047  | 75RB#0           | PASS    |
| Band66 | 15MHz     | QPSK       | 132322  | 75RB#0           | PASS    |
| Band66 | 15MHz     | QPSK       | 132597  | 75RB#0           | PASS    |
| Band66 | 15MHz     | 16QAM      | 132047  | 1RB#0            | PASS    |
| Band66 | 15MHz     | 16QAM      | 132322  | 1RB#0            | PASS    |
| Band66 | 15MHz     | 16QAM      | 132597  | 1RB#0            | PASS    |
| Band66 | 20MHz     | QPSK       | 132072  | 100RB#0          | PASS    |
| Band66 | 20MHz     | QPSK       | 132322  | 100RB#0          | PASS    |
| Band66 | 20MHz     | QPSK       | 132572  | 100RB#0          | PASS    |
| Band66 | 20MHz     | 16QAM      | 132072  | 1RB#0            | PASS    |
| Band66 | 20MHz     | 16QAM      | 132322  | 1RB#0            | PASS    |
| Band66 | 20MHz     | 16QAM      | 132572  | 1RB#0            | PASS    |