

## **Appendix for N38**

Product Name: 5G CPE  
Model No: S3

## Appendix A: Average Power Output for SA

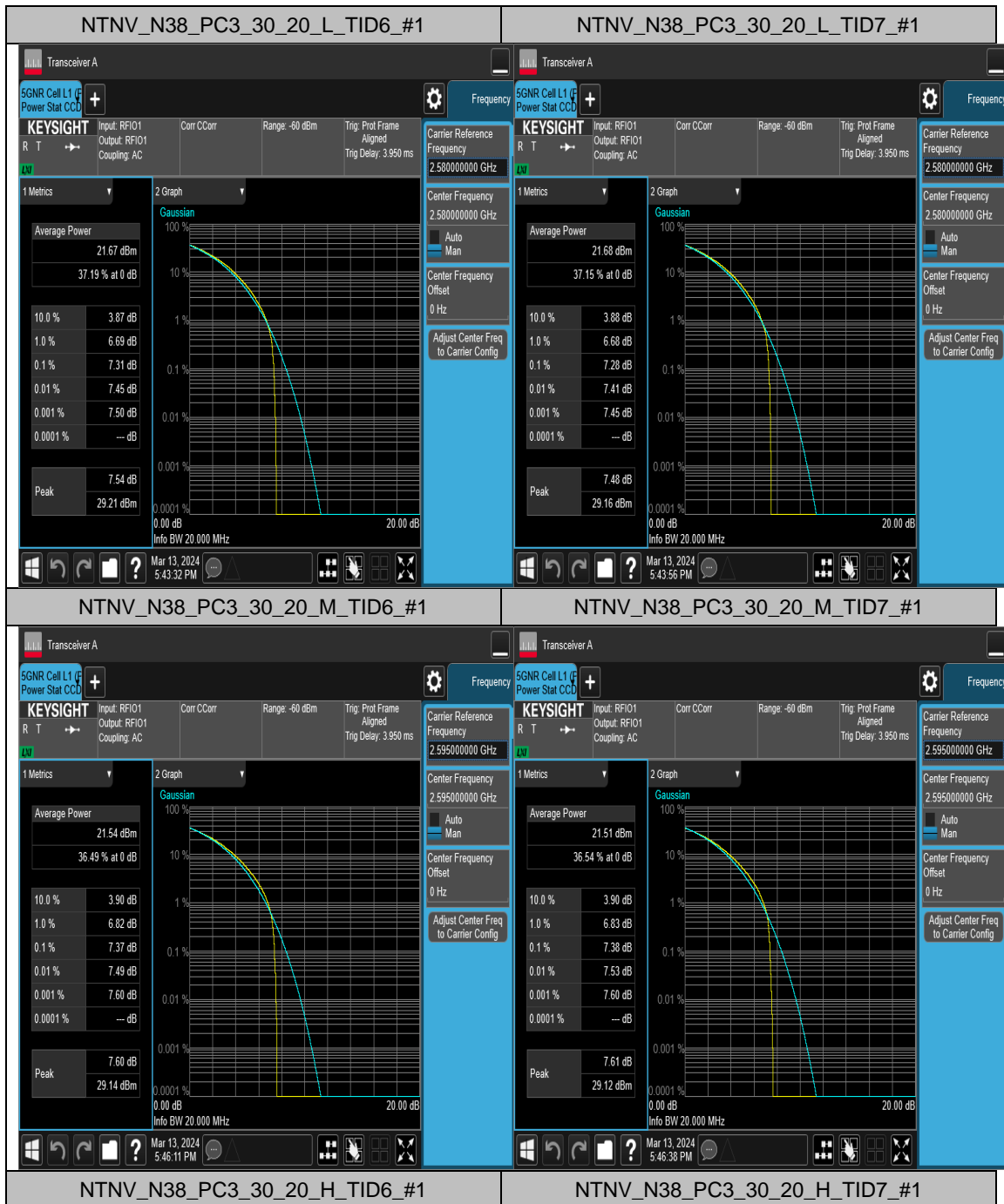
### Test Result

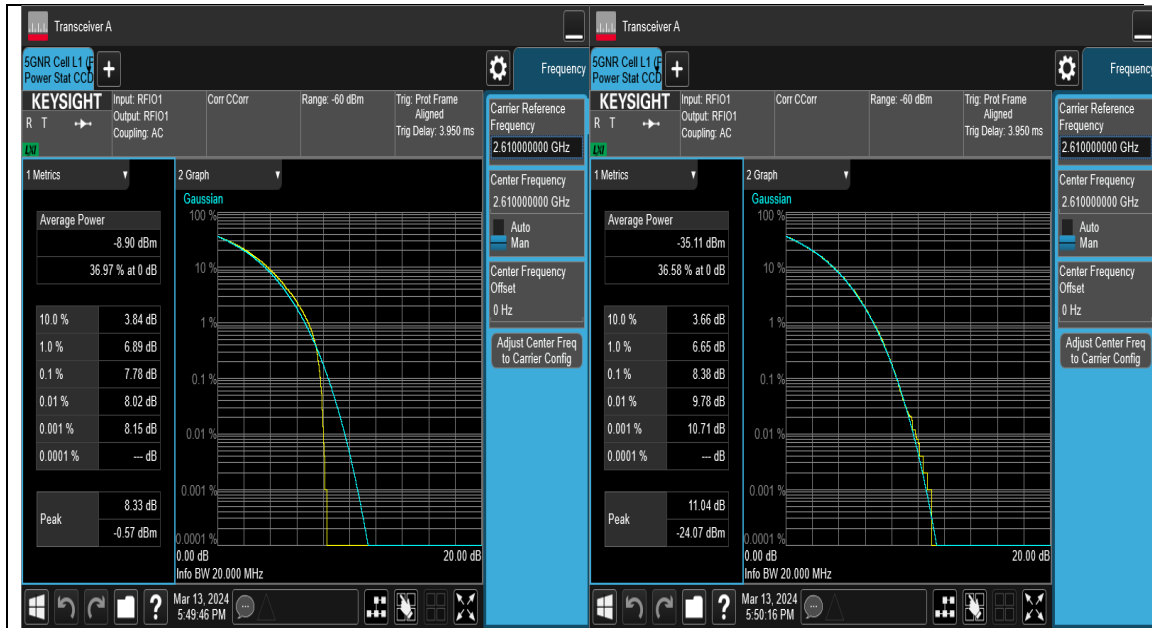
| Band | SCS | Bandwidth | Modulation | Channel | RB Config      | Power (dBm) | Power Class | Verdict |
|------|-----|-----------|------------|---------|----------------|-------------|-------------|---------|
| N38  | 30  | 20        | CP-QPSK    | L       | Outer_Full     | 22.02       | PC3         | PASS    |
| N38  | 30  | 20        | CP-QPSK    | L       | Edge_1RB_Left  | 21.99       | PC3         | PASS    |
| N38  | 30  | 20        | CP-QPSK    | L       | Inner_Full     | 23.60       | PC3         | PASS    |
| N38  | 30  | 20        | CP-QPSK    | L       | Edge_1RB_Right | 21.95       | PC3         | PASS    |
| N38  | 30  | 20        | CP-16QAM   | L       | Outer_Full     | 22.10       | PC3         | PASS    |
| N38  | 30  | 20        | CP-16QAM   | L       | Edge_1RB_Left  | 22.18       | PC3         | PASS    |
| N38  | 30  | 20        | CP-16QAM   | L       | Inner_Full     | 23.01       | PC3         | PASS    |
| N38  | 30  | 20        | CP-16QAM   | L       | Edge_1RB_Right | 22.11       | PC3         | PASS    |
| N38  | 30  | 20        | CP-QPSK    | M       | Outer_Full     | 21.93       | PC3         | PASS    |
| N38  | 30  | 20        | CP-QPSK    | M       | Edge_1RB_Left  | 21.89       | PC3         | PASS    |
| N38  | 30  | 20        | CP-QPSK    | M       | Inner_Full     | 23.31       | PC3         | PASS    |
| N38  | 30  | 20        | CP-QPSK    | M       | Edge_1RB_Right | 21.56       | PC3         | PASS    |
| N38  | 30  | 20        | CP-16QAM   | M       | Outer_Full     | 21.78       | PC3         | PASS    |
| N38  | 30  | 20        | CP-16QAM   | M       | Edge_1RB_Left  | 22.10       | PC3         | PASS    |
| N38  | 30  | 20        | CP-16QAM   | M       | Inner_Full     | 22.89       | PC3         | PASS    |
| N38  | 30  | 20        | CP-16QAM   | M       | Edge_1RB_Right | 21.62       | PC3         | PASS    |
| N38  | 30  | 20        | CP-QPSK    | H       | Outer_Full     | 21.74       | PC3         | PASS    |
| N38  | 30  | 20        | CP-QPSK    | H       | Edge_1RB_Left  | 21.97       | PC3         | PASS    |
| N38  | 30  | 20        | CP-QPSK    | H       | Inner_Full     | 23.00       | PC3         | PASS    |
| N38  | 30  | 20        | CP-QPSK    | H       | Edge_1RB_Right | 21.70       | PC3         | PASS    |
| N38  | 30  | 20        | CP-16QAM   | H       | Outer_Full     | 21.72       | PC3         | PASS    |
| N38  | 30  | 20        | CP-16QAM   | H       | Edge_1RB_Left  | 21.89       | PC3         | PASS    |
| N38  | 30  | 20        | CP-16QAM   | H       | Inner_Full     | 22.69       | PC3         | PASS    |
| N38  | 30  | 20        | CP-16QAM   | H       | Edge_1RB_Right | 21.72       | PC3         | PASS    |

**Appendix B: Peak-to-Average Ratio for SA****Peak-to-Average Ratio(CCDF)****Test Result**

| Band | SCS | Bandwidth | Modulation | Channel | RB Config  | Result | Limit | Verdict |
|------|-----|-----------|------------|---------|------------|--------|-------|---------|
| N38  | 30  | 20        | CP-QPSK    | L       | Outer_Full | 7.31   | ≤13   | PASS    |
| N38  | 30  | 20        | CP-16QAM   | L       | Outer_Full | 7.28   | ≤13   | PASS    |
| N38  | 30  | 20        | CP-QPSK    | M       | Outer_Full | 7.37   | ≤13   | PASS    |
| N38  | 30  | 20        | CP-16QAM   | M       | Outer_Full | 7.38   | ≤13   | PASS    |
| N38  | 30  | 20        | CP-QPSK    | H       | Outer_Full | 7.78   | ≤13   | PASS    |
| N38  | 30  | 20        | CP-16QAM   | H       | Outer_Full | 8.38   | ≤13   | PASS    |

### Test Graphs

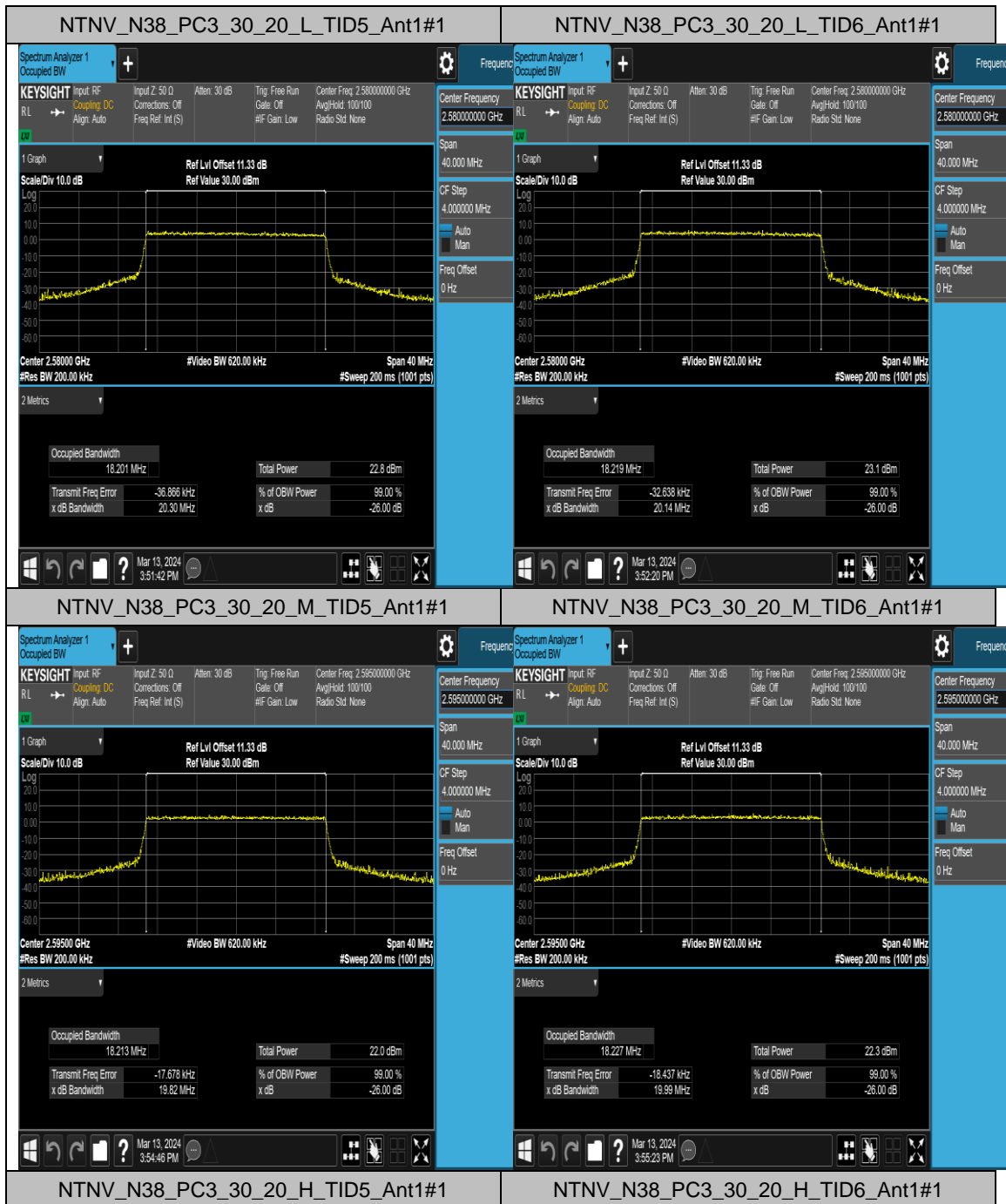


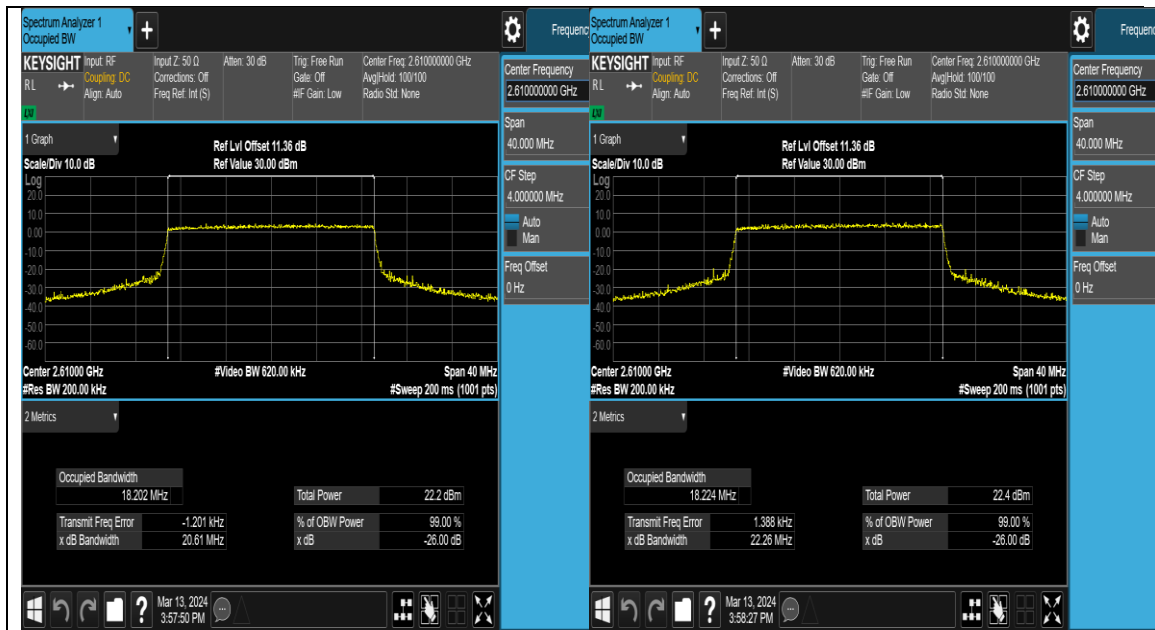


**Appendix C: 26dB Bandwidth and Occupied Bandwidth for SA****Test Result**

| Band | SCS | Bandwidth | Modulation | Channel | RB Config  | Result (99%) | Result (26dB) | Verdict |
|------|-----|-----------|------------|---------|------------|--------------|---------------|---------|
| N38  | 30  | 20        | CP-QPSK    | L       | Outer_Full | 18.201       | 20.30         | PASS    |
| N38  | 30  | 20        | CP-16QAM   | L       | Outer_Full | 18.219       | 20.14         | PASS    |
| N38  | 30  | 20        | CP-QPSK    | M       | Outer_Full | 18.213       | 19.82         | PASS    |
| N38  | 30  | 20        | CP-16QAM   | M       | Outer_Full | 18.227       | 19.99         | PASS    |
| N38  | 30  | 20        | CP-QPSK    | H       | Outer_Full | 18.202       | 20.61         | PASS    |
| N38  | 30  | 20        | CP-16QAM   | H       | Outer_Full | 18.224       | 22.26         | PASS    |

### Test Graphs





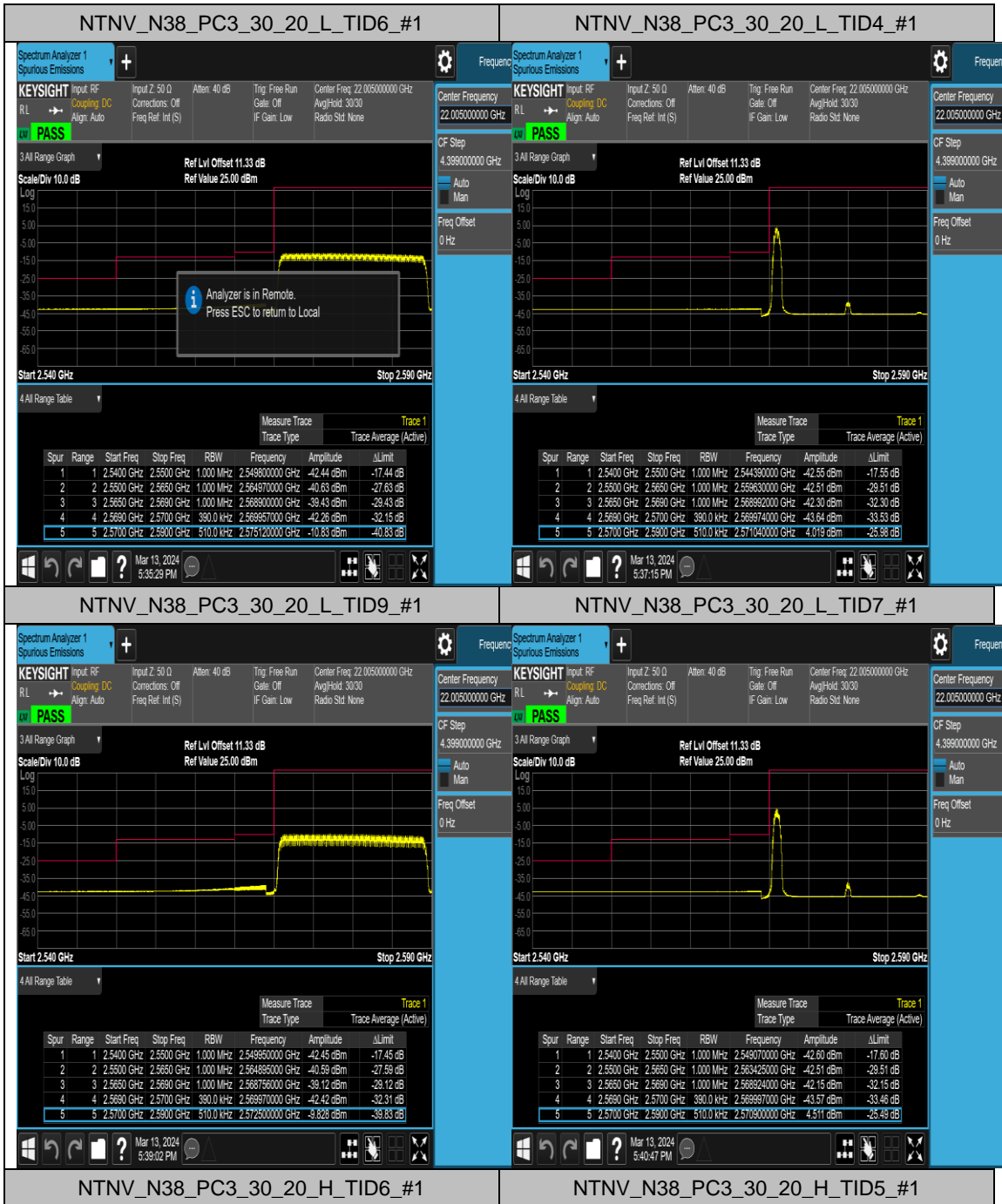


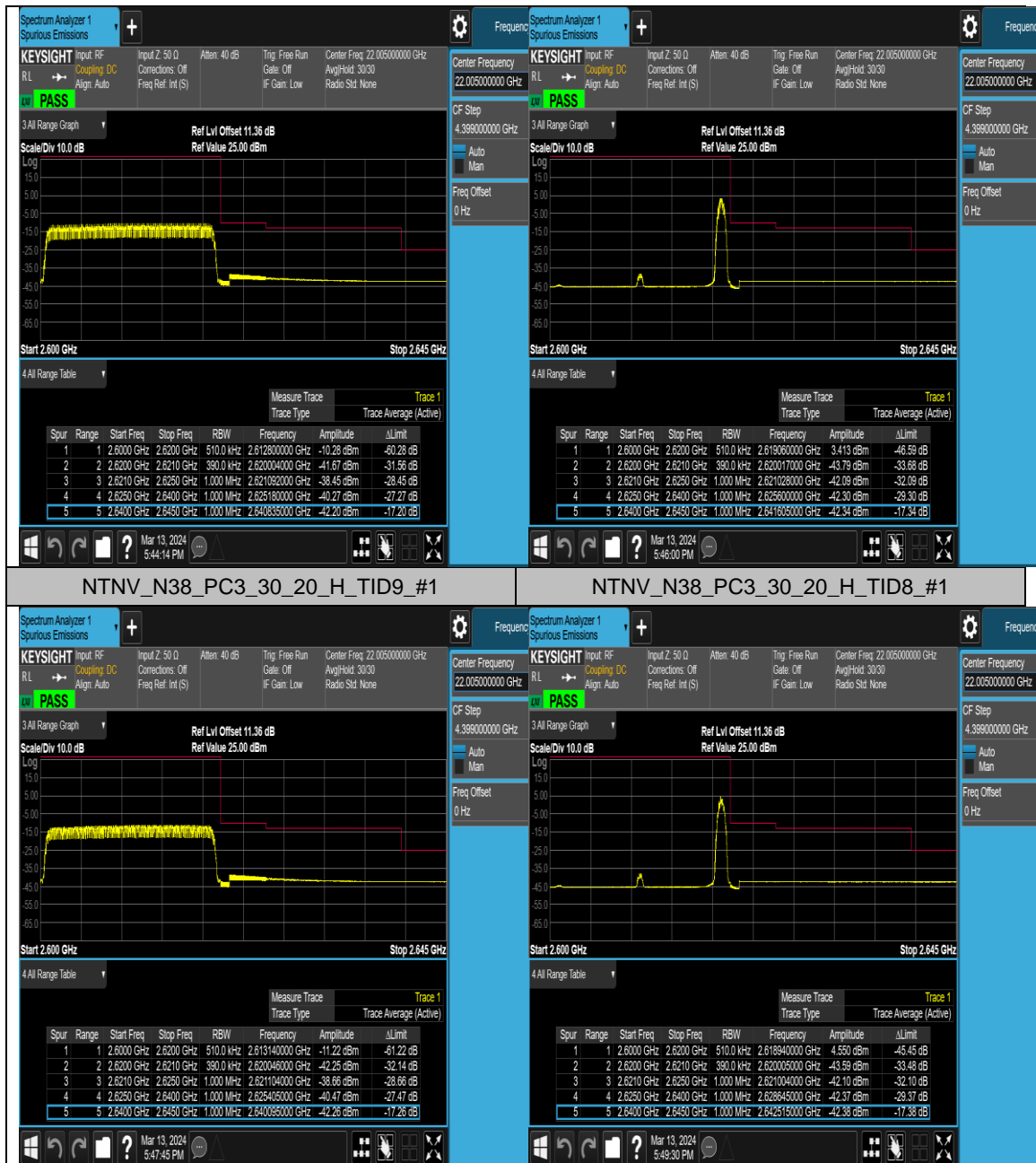
## Appendix D: Band Edge for SA

### Test Result

| Band | SCS | Bandwidth | Modulation | Channel | RB Config      | Result | Verdict |
|------|-----|-----------|------------|---------|----------------|--------|---------|
| N38  | 30  | 20        | CP-QPSK    | L       | Outer_Full     |        | PASS    |
| N38  | 30  | 20        | CP-QPSK    | L       | Edge_1RB_Left  |        | PASS    |
| N38  | 30  | 20        | CP-16QAM   | L       | Outer_Full     |        | PASS    |
| N38  | 30  | 20        | CP-16QAM   | L       | Edge_1RB_Left  |        | PASS    |
| N38  | 30  | 20        | CP-QPSK    | H       | Outer_Full     |        | PASS    |
| N38  | 30  | 20        | CP-QPSK    | H       | Edge_1RB_Right |        | PASS    |
| N38  | 30  | 20        | CP-16QAM   | H       | Outer_Full     |        | PASS    |
| N38  | 30  | 20        | CP-16QAM   | H       | Edge_1RB_Right |        | PASS    |

### Test Graphs





## Appendix E: Conducted Spurious Emission for SA

### Test Result

| Band | SCS | Bandwidth | Modulation | Channel | RB Config      | StartFreq | StopFreq | Result | Limit | Verdict |
|------|-----|-----------|------------|---------|----------------|-----------|----------|--------|-------|---------|
| N38  | 30  | 20        | CP-QPSK    | L       | Outer_Full     | 0.009     | 0.15     | -62.89 | -55   | PASS    |
| N38  | 30  | 20        | CP-QPSK    | L       | Outer_Full     | 0.15      | 30       | -72.25 | -45   | PASS    |
| N38  | 30  | 20        | CP-QPSK    | L       | Outer_Full     | 30        | 1000     | -52.59 | -35   | PASS    |
| N38  | 30  | 20        | CP-QPSK    | L       | Outer_Full     | 3000      | 12000    | -43.65 | -25   | PASS    |
| N38  | 30  | 20        | CP-QPSK    | L       | Outer_Full     | 12000     | 20000    | -45.36 | -25   | PASS    |
| N38  | 30  | 20        | CP-QPSK    | L       | Edge_1RB_Left  | 0.009     | 0.15     | -62.35 | -55   | PASS    |
| N38  | 30  | 20        | CP-QPSK    | L       | Edge_1RB_Left  | 0.15      | 30       | -72.79 | -45   | PASS    |
| N38  | 30  | 20        | CP-QPSK    | L       | Edge_1RB_Left  | 30        | 1000     | -52.70 | -35   | PASS    |
| N38  | 30  | 20        | CP-QPSK    | L       | Edge_1RB_Left  | 3000      | 12000    | -43.55 | -25   | PASS    |
| N38  | 30  | 20        | CP-QPSK    | L       | Edge_1RB_Left  | 12000     | 20000    | -45.38 | -25   | PASS    |
| N38  | 30  | 20        | CP-QPSK    | L       | Edge_1RB_Right | 0.009     | 0.15     | -62.70 | -55   | PASS    |
| N38  | 30  | 20        | CP-QPSK    | L       | Edge_1RB_Right | 0.15      | 30       | -72.20 | -45   | PASS    |
| N38  | 30  | 20        | CP-QPSK    | L       | Edge_1RB_Right | 30        | 1000     | -52.44 | -35   | PASS    |
| N38  | 30  | 20        | CP-QPSK    | L       | Edge_1RB_Right | 3000      | 12000    | -43.69 | -25   | PASS    |
| N38  | 30  | 20        | CP-QPSK    | L       | Edge_1RB_Right | 12000     | 20000    | -45.36 | -25   | PASS    |
| N38  | 30  | 20        | CP-16QAM   | L       | Outer_Full     | 0.009     | 0.15     | -61.86 | -55   | PASS    |
| N38  | 30  | 20        | CP-16QAM   | L       | Outer_Full     | 0.15      | 30       | -72.75 | -45   | PASS    |
| N38  | 30  | 20        | CP-16QAM   | L       | Outer_Full     | 30        | 1000     | -52.16 | -35   | PASS    |
| N38  | 30  | 20        | CP-16QAM   | L       | Outer_Full     | 3000      | 12000    | -43.47 | -25   | PASS    |
| N38  | 30  | 20        | CP-16QAM   | L       | Outer_Full     | 12000     | 20000    | -45.38 | -25   | PASS    |
| N38  | 30  | 20        | CP-16QAM   | L       | Edge_1RB_Left  | 0.009     | 0.15     | -62.33 | -55   | PASS    |
| N38  | 30  | 20        | CP-16QAM   | L       | Edge_1RB_Left  | 0.15      | 30       | -71.26 | -45   | PASS    |
| N38  | 30  | 20        | CP-16QAM   | L       | Edge_1RB_Left  | 30        | 1000     | -52.47 | -35   | PASS    |
| N38  | 30  | 20        | CP-16QAM   | L       | Edge_1RB_Left  | 3000      | 12000    | -43.74 | -25   | PASS    |
| N38  | 30  | 20        | CP-16QAM   | L       | Edge_1RB_Left  | 12000     | 20000    | -45.39 | -25   | PASS    |
| N38  | 30  | 20        | CP-16QAM   | L       | Edge_1RB_Right | 0.009     | 0.15     | -62.78 | -55   | PASS    |
| N38  | 30  | 20        | CP-16QAM   | L       | Edge_1RB_Right | 0.15      | 30       | -72.21 | -45   | PASS    |
| N38  | 30  | 20        | CP-16QAM   | L       | Edge_1RB_Right | 30        | 1000     | -52.43 | -35   | PASS    |
| N38  | 30  | 20        | CP-16QAM   | L       | Edge_1RB_Right | 3000      | 12000    | -43.66 | -25   | PASS    |
| N38  | 30  | 20        | CP-16QAM   | L       | Edge_1RB_Right | 12000     | 20000    | -45.28 | -25   | PASS    |
| N38  | 30  | 20        | CP-QPSK    | M       | Outer_Full     | 0.009     | 0.15     | -61.61 | -55   | PASS    |
| N38  | 30  | 20        | CP-QPSK    | M       | Outer_Full     | 0.15      | 30       | -71.79 | -45   | PASS    |
| N38  | 30  | 20        | CP-QPSK    | M       | Outer_Full     | 30        | 1000     | -52.76 | -35   | PASS    |
| N38  | 30  | 20        | CP-QPSK    | M       | Outer_Full     | 3000      | 12000    | -43.62 | -25   | PASS    |
| N38  | 30  | 20        | CP-QPSK    | M       | Outer_Full     | 12000     | 20000    | -45.50 | -25   | PASS    |
| N38  | 30  | 20        | CP-QPSK    | M       | Edge_1RB_Left  | 0.009     | 0.15     | -61.69 | -55   | PASS    |

|     |    |    |          |   |                |       |       |        |     |      |
|-----|----|----|----------|---|----------------|-------|-------|--------|-----|------|
| N38 | 30 | 20 | CP-QPSK  | M | Edge_1RB_Left  | 0.15  | 30    | -71.31 | -45 | PASS |
| N38 | 30 | 20 | CP-QPSK  | M | Edge_1RB_Left  | 30    | 1000  | -52.41 | -35 | PASS |
| N38 | 30 | 20 | CP-QPSK  | M | Edge_1RB_Left  | 3000  | 12000 | -43.55 | -25 | PASS |
| N38 | 30 | 20 | CP-QPSK  | M | Edge_1RB_Left  | 12000 | 20000 | -45.41 | -25 | PASS |
| N38 | 30 | 20 | CP-QPSK  | M | Edge_1RB_Right | 0.009 | 0.15  | -62.80 | -55 | PASS |
| N38 | 30 | 20 | CP-QPSK  | M | Edge_1RB_Right | 0.15  | 30    | -71.38 | -45 | PASS |
| N38 | 30 | 20 | CP-QPSK  | M | Edge_1RB_Right | 30    | 1000  | -52.00 | -35 | PASS |
| N38 | 30 | 20 | CP-QPSK  | M | Edge_1RB_Right | 3000  | 12000 | -43.65 | -25 | PASS |
| N38 | 30 | 20 | CP-QPSK  | M | Edge_1RB_Right | 12000 | 20000 | -45.46 | -25 | PASS |
| N38 | 30 | 20 | CP-16QAM | M | Outer_Full     | 0.009 | 0.15  | -62.89 | -55 | PASS |
| N38 | 30 | 20 | CP-16QAM | M | Outer_Full     | 0.15  | 30    | -72.27 | -45 | PASS |
| N38 | 30 | 20 | CP-16QAM | M | Outer_Full     | 30    | 1000  | -52.39 | -35 | PASS |
| N38 | 30 | 20 | CP-16QAM | M | Outer_Full     | 3000  | 12000 | -43.62 | -25 | PASS |
| N38 | 30 | 20 | CP-16QAM | M | Outer_Full     | 12000 | 20000 | -45.47 | -25 | PASS |
| N38 | 30 | 20 | CP-16QAM | M | Edge_1RB_Left  | 0.009 | 0.15  | -61.63 | -55 | PASS |
| N38 | 30 | 20 | CP-16QAM | M | Edge_1RB_Left  | 0.15  | 30    | -71.73 | -45 | PASS |
| N38 | 30 | 20 | CP-16QAM | M | Edge_1RB_Left  | 30    | 1000  | -52.52 | -35 | PASS |
| N38 | 30 | 20 | CP-16QAM | M | Edge_1RB_Left  | 3000  | 12000 | -43.62 | -25 | PASS |
| N38 | 30 | 20 | CP-16QAM | M | Edge_1RB_Left  | 12000 | 20000 | -45.36 | -25 | PASS |
| N38 | 30 | 20 | CP-16QAM | M | Edge_1RB_Right | 0.009 | 0.15  | -62.30 | -55 | PASS |
| N38 | 30 | 20 | CP-16QAM | M | Edge_1RB_Right | 0.15  | 30    | -70.56 | -45 | PASS |
| N38 | 30 | 20 | CP-16QAM | M | Edge_1RB_Right | 30    | 1000  | -52.45 | -35 | PASS |
| N38 | 30 | 20 | CP-16QAM | M | Edge_1RB_Right | 3000  | 12000 | -43.71 | -25 | PASS |
| N38 | 30 | 20 | CP-16QAM | M | Edge_1RB_Right | 12000 | 20000 | -45.37 | -25 | PASS |
| N38 | 30 | 20 | CP-QPSK  | H | Outer_Full     | 0.009 | 0.15  | -62.30 | -55 | PASS |
| N38 | 30 | 20 | CP-QPSK  | H | Outer_Full     | 0.15  | 30    | -72.24 | -45 | PASS |
| N38 | 30 | 20 | CP-QPSK  | H | Outer_Full     | 30    | 1000  | -52.59 | -35 | PASS |
| N38 | 30 | 20 | CP-QPSK  | H | Outer_Full     | 3000  | 12000 | -43.64 | -25 | PASS |
| N38 | 30 | 20 | CP-QPSK  | H | Outer_Full     | 12000 | 20000 | -45.43 | -25 | PASS |
| N38 | 30 | 20 | CP-QPSK  | H | Edge_1RB_Left  | 0.009 | 0.15  | -63.24 | -55 | PASS |
| N38 | 30 | 20 | CP-QPSK  | H | Edge_1RB_Left  | 0.15  | 30    | -73.02 | -45 | PASS |
| N38 | 30 | 20 | CP-QPSK  | H | Edge_1RB_Left  | 30    | 1000  | -52.45 | -35 | PASS |
| N38 | 30 | 20 | CP-QPSK  | H | Edge_1RB_Left  | 3000  | 12000 | -43.75 | -25 | PASS |
| N38 | 30 | 20 | CP-QPSK  | H | Edge_1RB_Left  | 12000 | 20000 | -45.41 | -25 | PASS |
| N38 | 30 | 20 | CP-QPSK  | H | Edge_1RB_Right | 0.009 | 0.15  | -62.82 | -55 | PASS |
| N38 | 30 | 20 | CP-QPSK  | H | Edge_1RB_Right | 0.15  | 30    | -73.78 | -45 | PASS |
| N38 | 30 | 20 | CP-QPSK  | H | Edge_1RB_Right | 30    | 1000  | -52.43 | -35 | PASS |
| N38 | 30 | 20 | CP-QPSK  | H | Edge_1RB_Right | 3000  | 12000 | -43.62 | -25 | PASS |
| N38 | 30 | 20 | CP-QPSK  | H | Edge_1RB_Right | 12000 | 20000 | -45.21 | -25 | PASS |
| N38 | 30 | 20 | CP-16QAM | H | Outer_Full     | 0.009 | 0.15  | -62.34 | -55 | PASS |
| N38 | 30 | 20 | CP-16QAM | H | Outer_Full     | 0.15  | 30    | -73.11 | -45 | PASS |
| N38 | 30 | 20 | CP-16QAM | H | Outer_Full     | 30    | 1000  | -52.56 | -35 | PASS |

|     |    |    |          |   |                |       |       |        |     |      |
|-----|----|----|----------|---|----------------|-------|-------|--------|-----|------|
| N38 | 30 | 20 | CP-16QAM | H | Outer_Full     | 3000  | 12000 | -43.74 | -25 | PASS |
| N38 | 30 | 20 | CP-16QAM | H | Outer_Full     | 12000 | 20000 | -45.44 | -25 | PASS |
| N38 | 30 | 20 | CP-16QAM | H | Edge_1RB_Left  | 0.009 | 0.15  | -62.85 | -55 | PASS |
| N38 | 30 | 20 | CP-16QAM | H | Edge_1RB_Left  | 0.15  | 30    | -71.24 | -45 | PASS |
| N38 | 30 | 20 | CP-16QAM | H | Edge_1RB_Left  | 30    | 1000  | -52.41 | -35 | PASS |
| N38 | 30 | 20 | CP-16QAM | H | Edge_1RB_Left  | 3000  | 12000 | -43.63 | -25 | PASS |
| N38 | 30 | 20 | CP-16QAM | H | Edge_1RB_Left  | 12000 | 20000 | -45.38 | -25 | PASS |
| N38 | 30 | 20 | CP-16QAM | H | Edge_1RB_Right | 0.009 | 0.15  | -62.33 | -55 | PASS |
| N38 | 30 | 20 | CP-16QAM | H | Edge_1RB_Right | 0.15  | 30    | -72.68 | -45 | PASS |
| N38 | 30 | 20 | CP-16QAM | H | Edge_1RB_Right | 30    | 1000  | -52.46 | -35 | PASS |
| N38 | 30 | 20 | CP-16QAM | H | Edge_1RB_Right | 3000  | 12000 | -43.76 | -25 | PASS |
| N38 | 30 | 20 | CP-16QAM | H | Edge_1RB_Right | 12000 | 20000 | -45.34 | -25 | PASS |

Test Graphs

