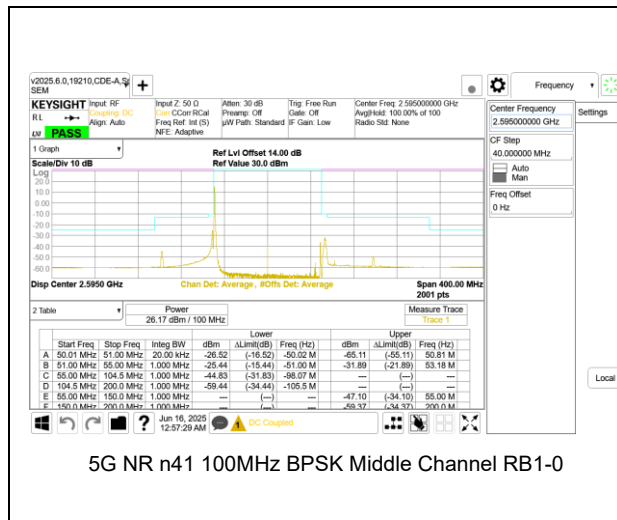
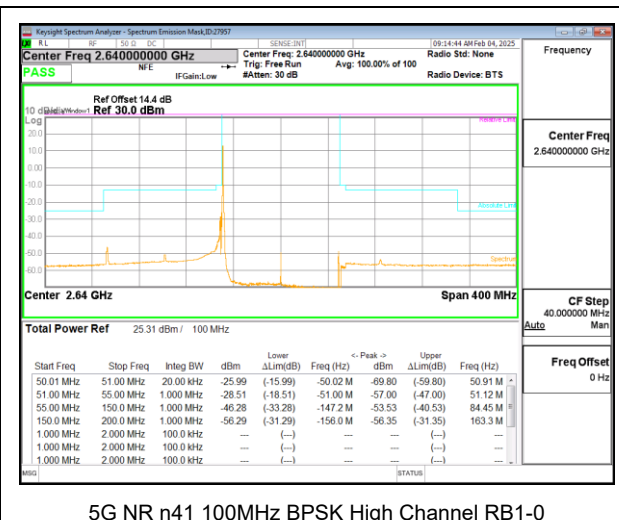
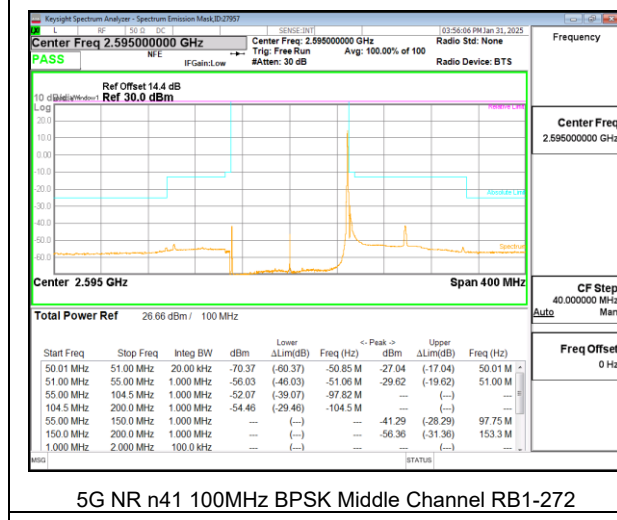




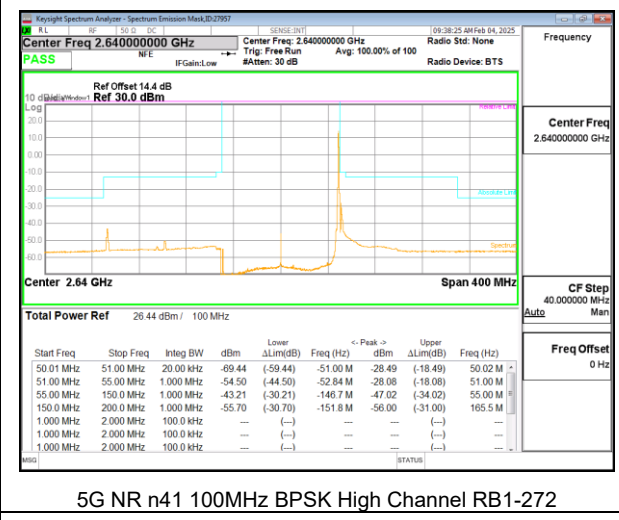
5G NR n41 100MHz BPSK Middle Channel RB1-0



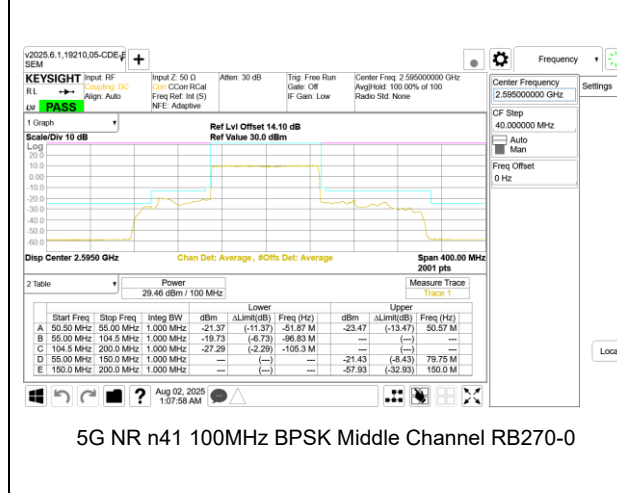
5G NR n41 100MHz BPSK High Channel RB1-0



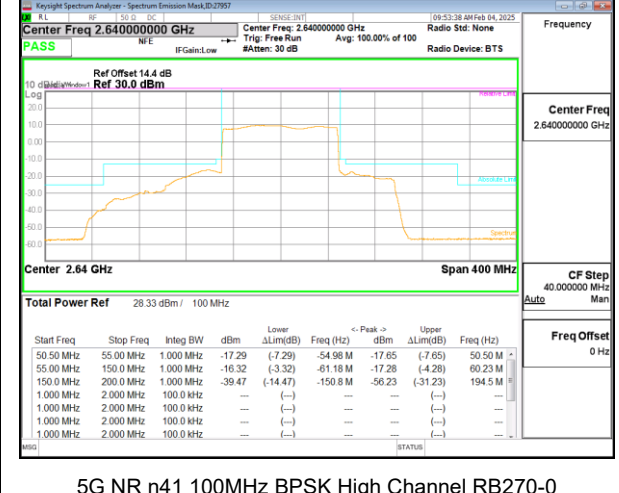
5G NR n41 100MHz BPSK Middle Channel RB1-272



5G NR n41 100MHz BPSK High Channel RB1-272

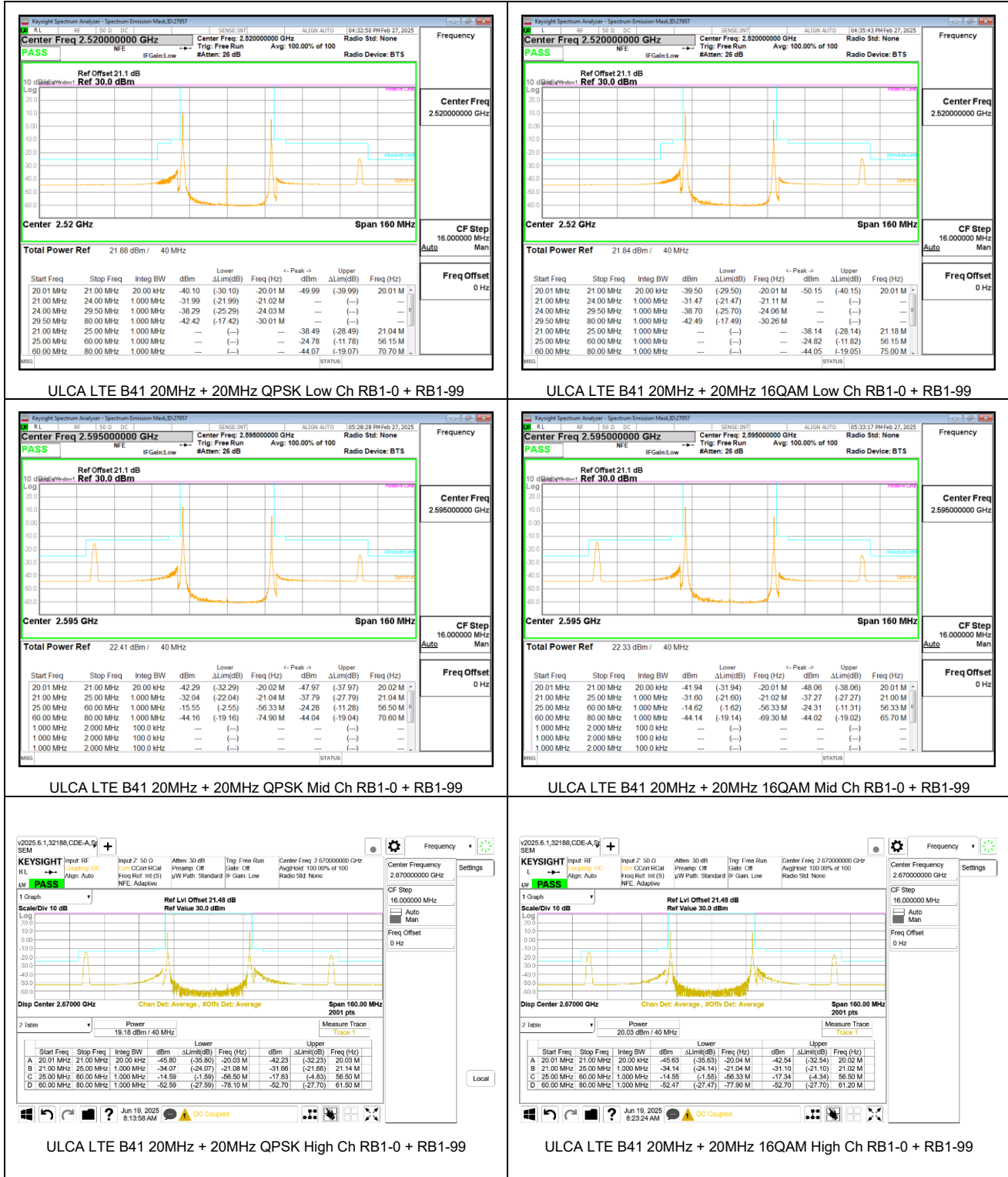


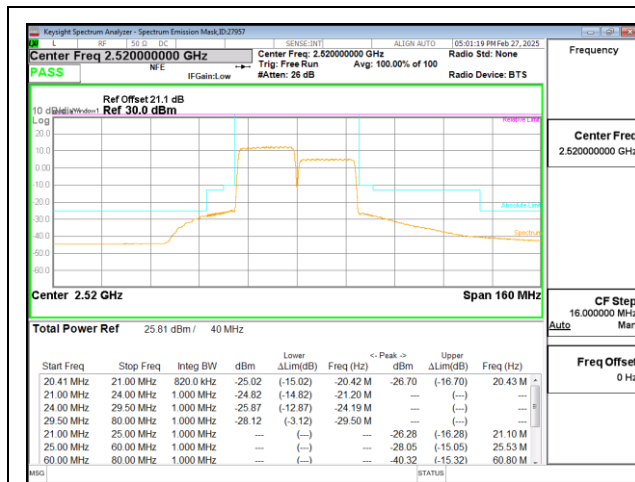
5G NR n41 100MHz BPSK Middle Channel RB270-0



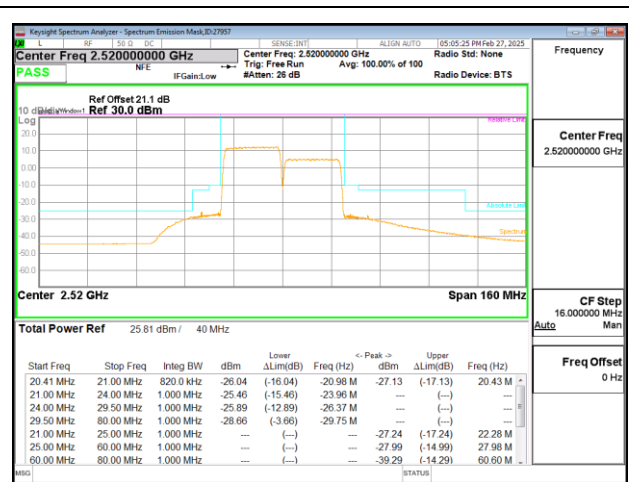
5G NR n41 100MHz BPSK High Channel RB270-0

## 9.2.10. ULCA LTE BAND 41 (IC)

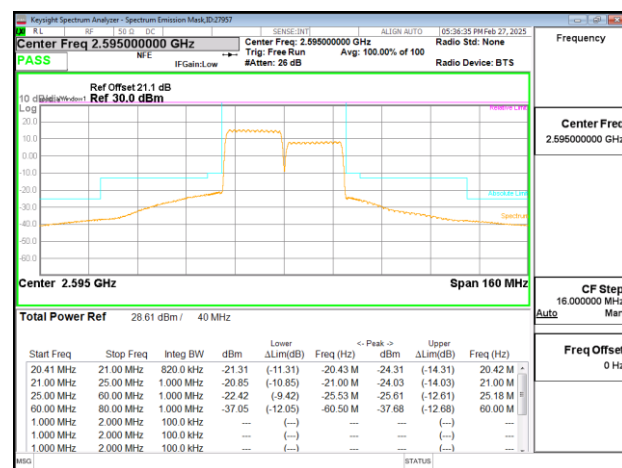




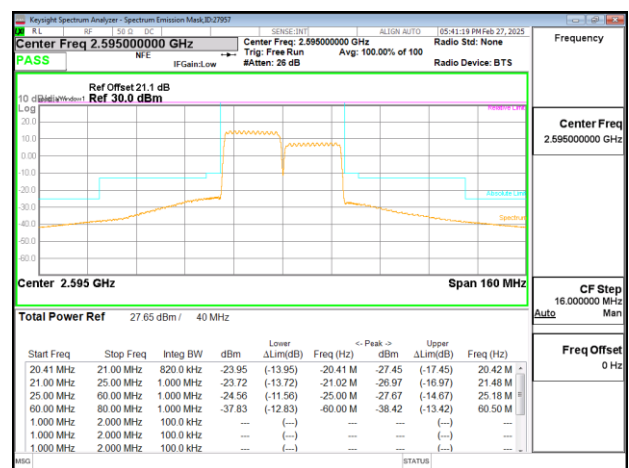
ULCA LTE B41 20MHz + 20MHz QPSK Low Ch RB100-0 + RB100-0



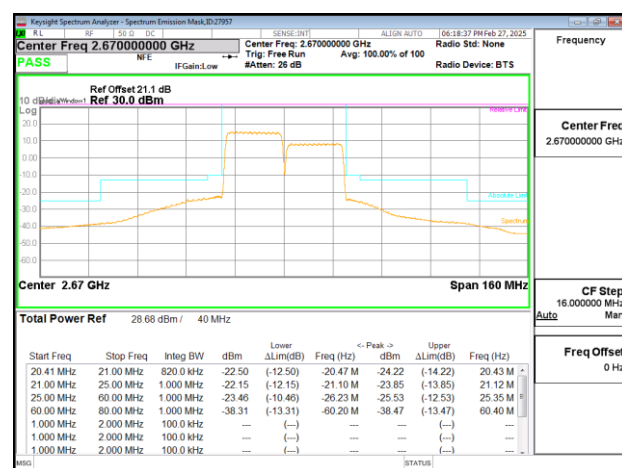
ULCA LTE B41 20MHz + 20MHz 16QAM Low Ch RB100-0 + RB100-0



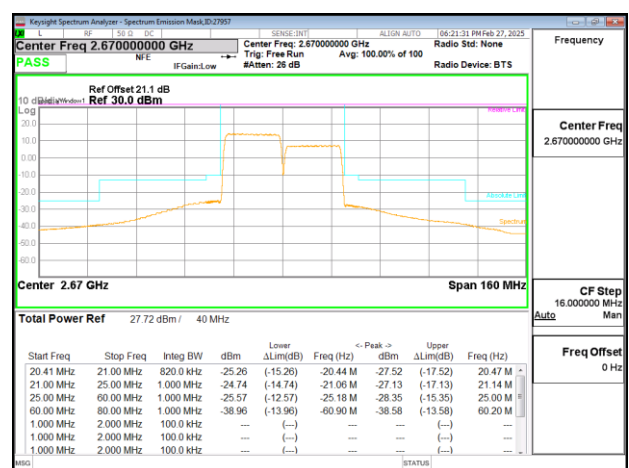
ULCA LTE B41 20MHz + 20MHz QPSK Mid Ch RB100-0 + RB100-0



ULCA LTE B41 20MHz + 20MHz 16QAM Mid Ch RB100-0 + RB100-0



ULCA LTE B41 20MHz + 20MHz QPSK High Ch RB100-0 + RB100-0



ULCA LTE B41 20MHz + 20MHz 16QAM High Ch RB100-0 + RB100-0

### 9.3. OUT OF BAND EMISSIONS

#### LIMITS

FCC: §27.53 (m)

The minimum permissible attenuation level of any spurious emissions is  $55 + 10 \log (P)$  dB where transmitting power (P) in Watts.

RSS199§5.6

The minimum permissible attenuation level of any spurious emissions is  $55 + 10 \log (P)$  dB where transmitting power (P) in Watts.

#### TEST PROCEDURE

The RF output of the transmitter was connected to a spectrum analyzer through a calibrated coaxial cable. Sufficient scans were taken to show the out-of-band Emissions, if any, up to 10th harmonic. Multiple sweeps were recorded in maximum hold mode using a peak detector to ensure that the worst-case emissions were caught.

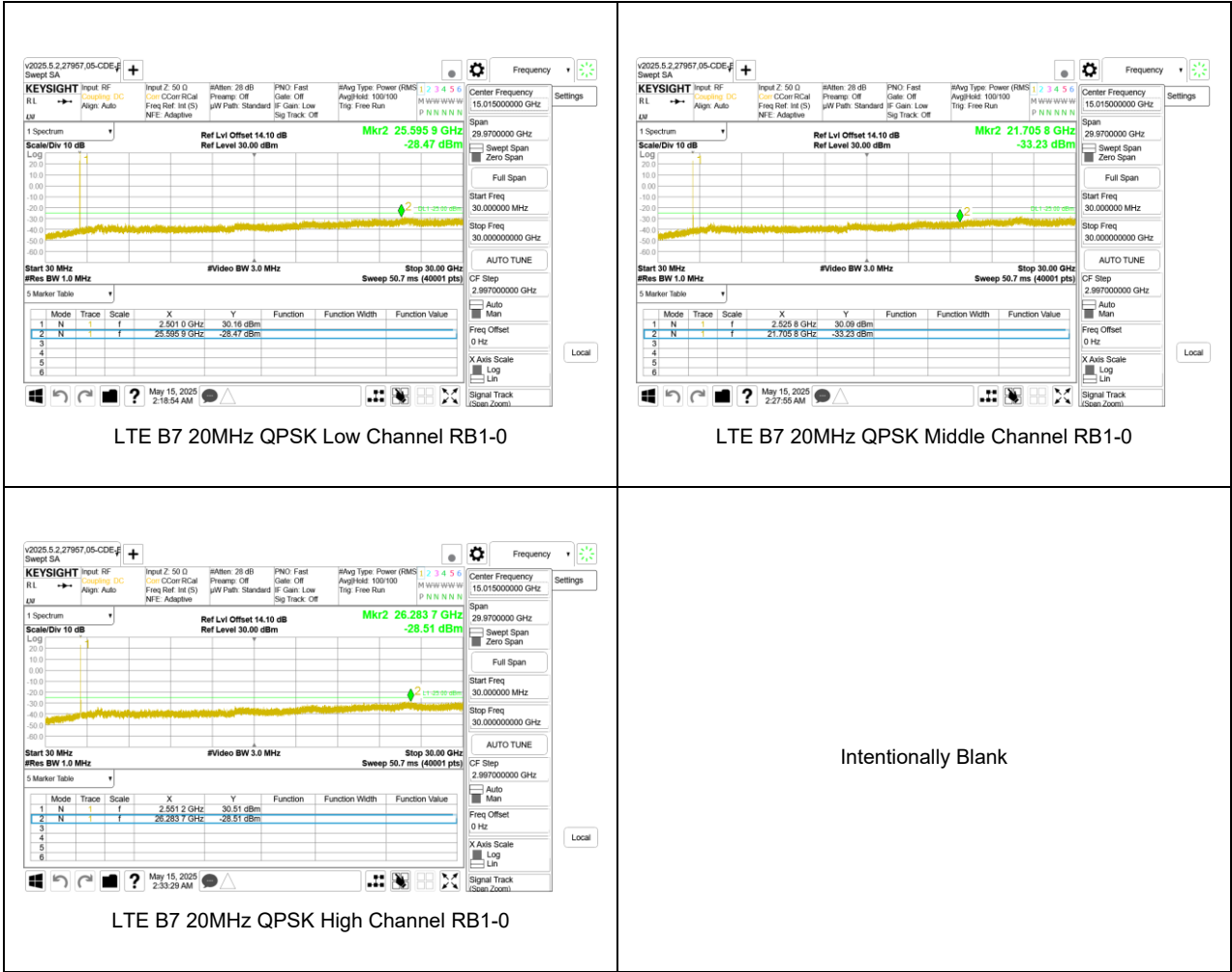
For each out of band emissions measurement:

- Set display line at -25dBm according to the band Limit
- Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz.  
(NOTE: Worst-case set RBW/VBW to 1MHz/3MHz)

For MIMO modes are made using the measure and sum the spectra method E3)a)ii) / E)2)a) from KDB 662911 D01. The measurements for each antenna are stored in separate traces (i.e. trace 1 and trace 2). The spectrum analyzer's math function is used to perform a linear sum of powers of the two traces and store the result in trace 3. Trace 3 is compared to the in-band or out of band limit as applicable.

#### RESULTS

9.3.1. LTE BAND 7



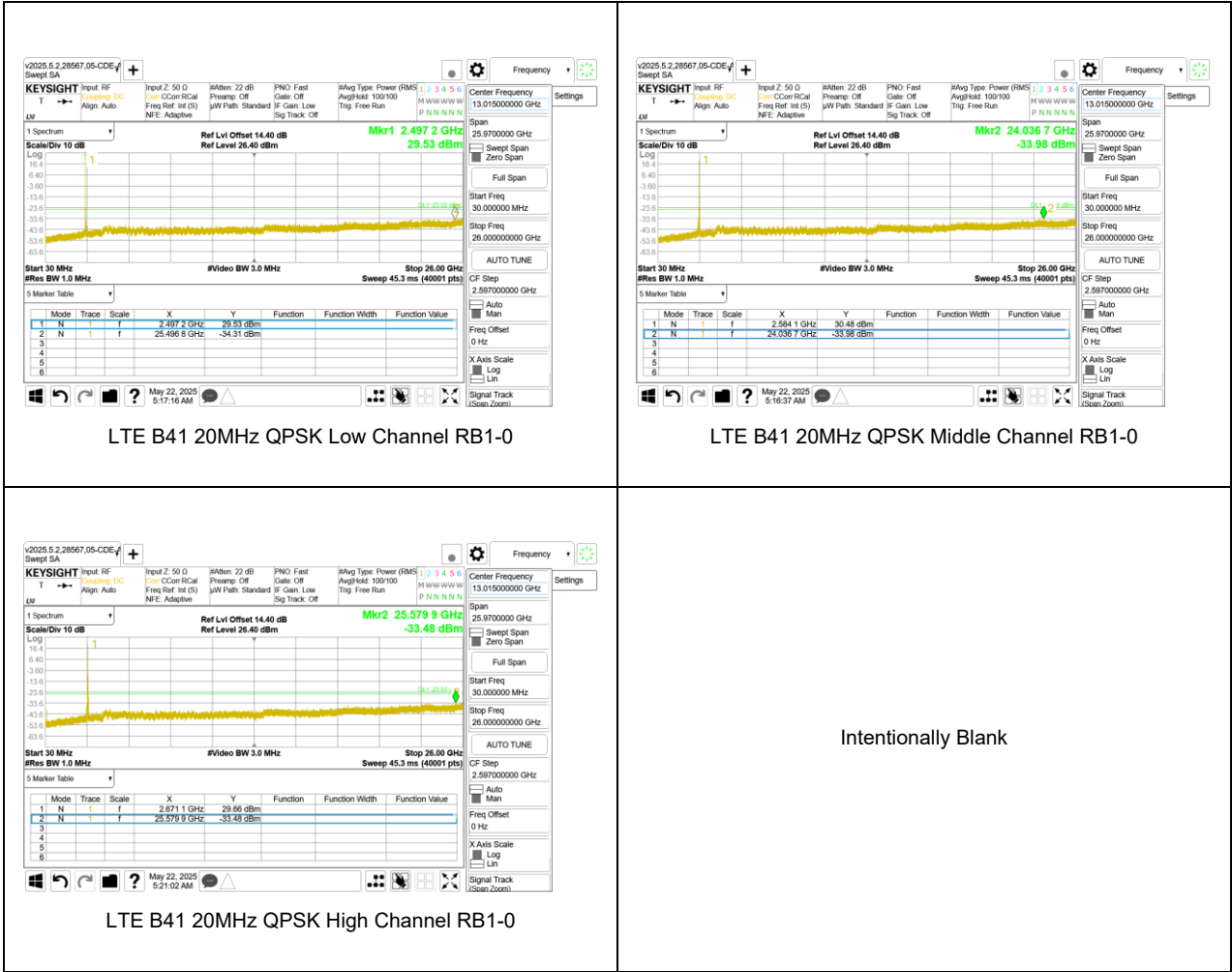
9.3.2. 5G NR n7



9.3.3. ULCA LTE BAND 7

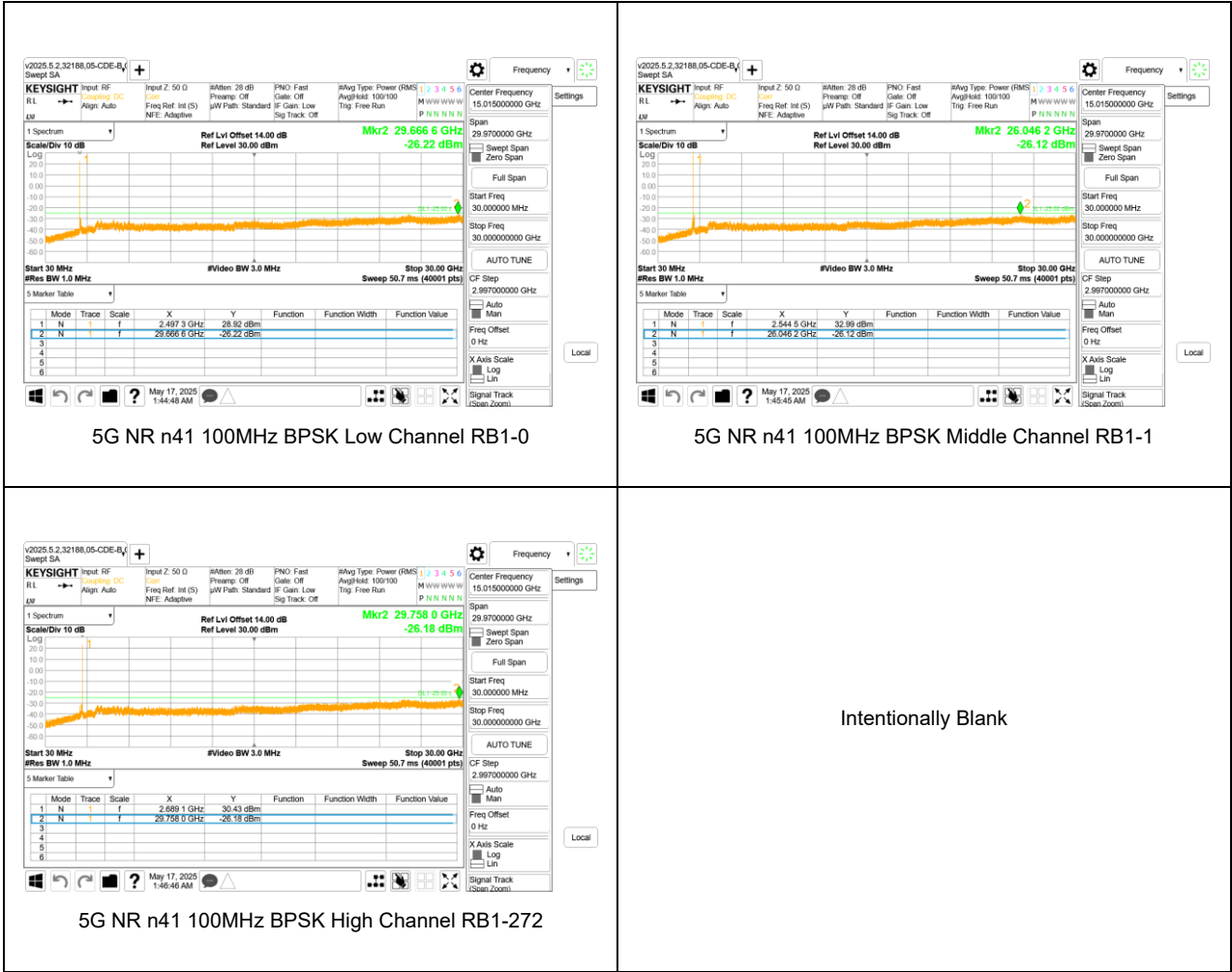


9.3.4. LTE BAND 41 (FCC)

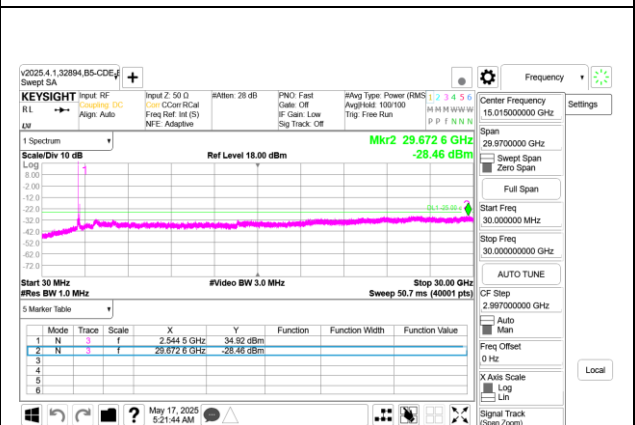
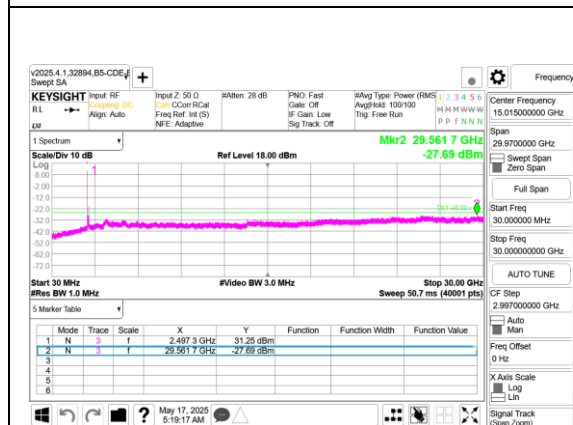
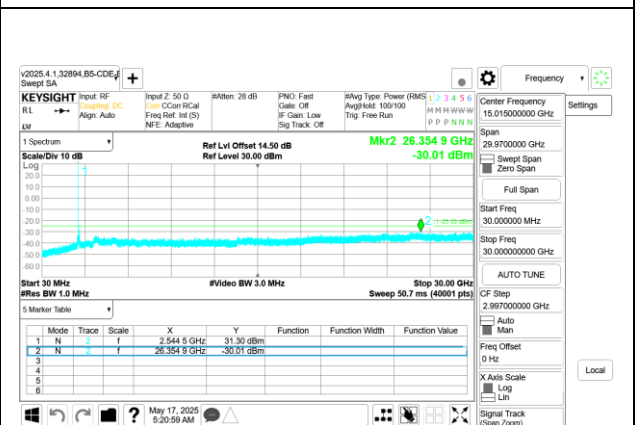
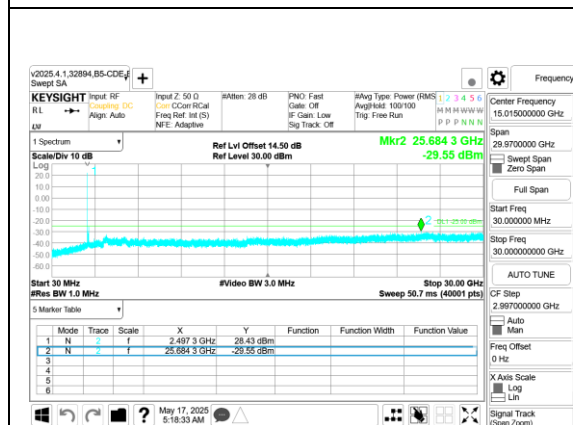
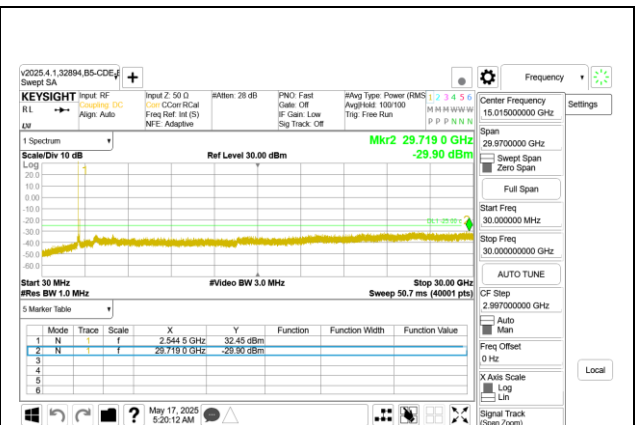
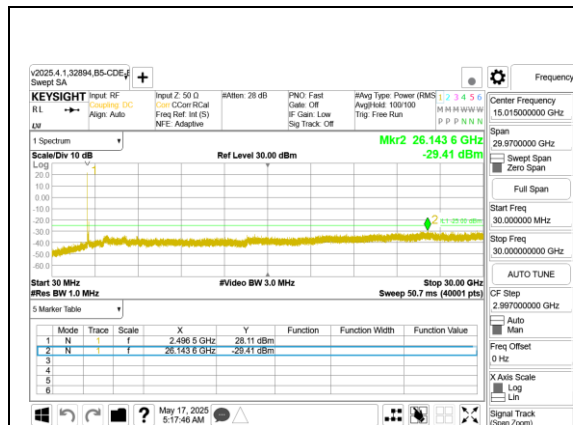


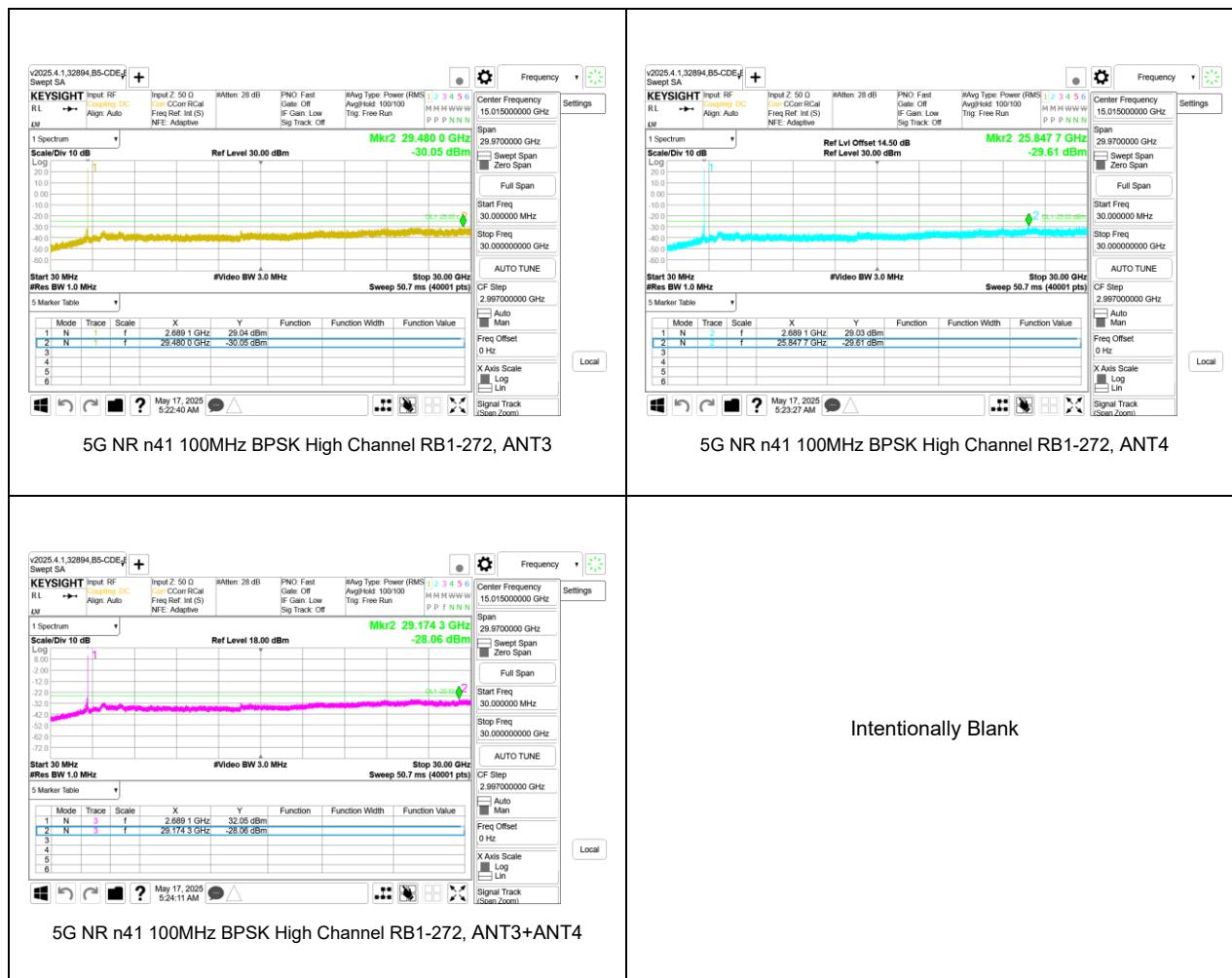


9.3.5. 5G NR n41 (FCC SISO)

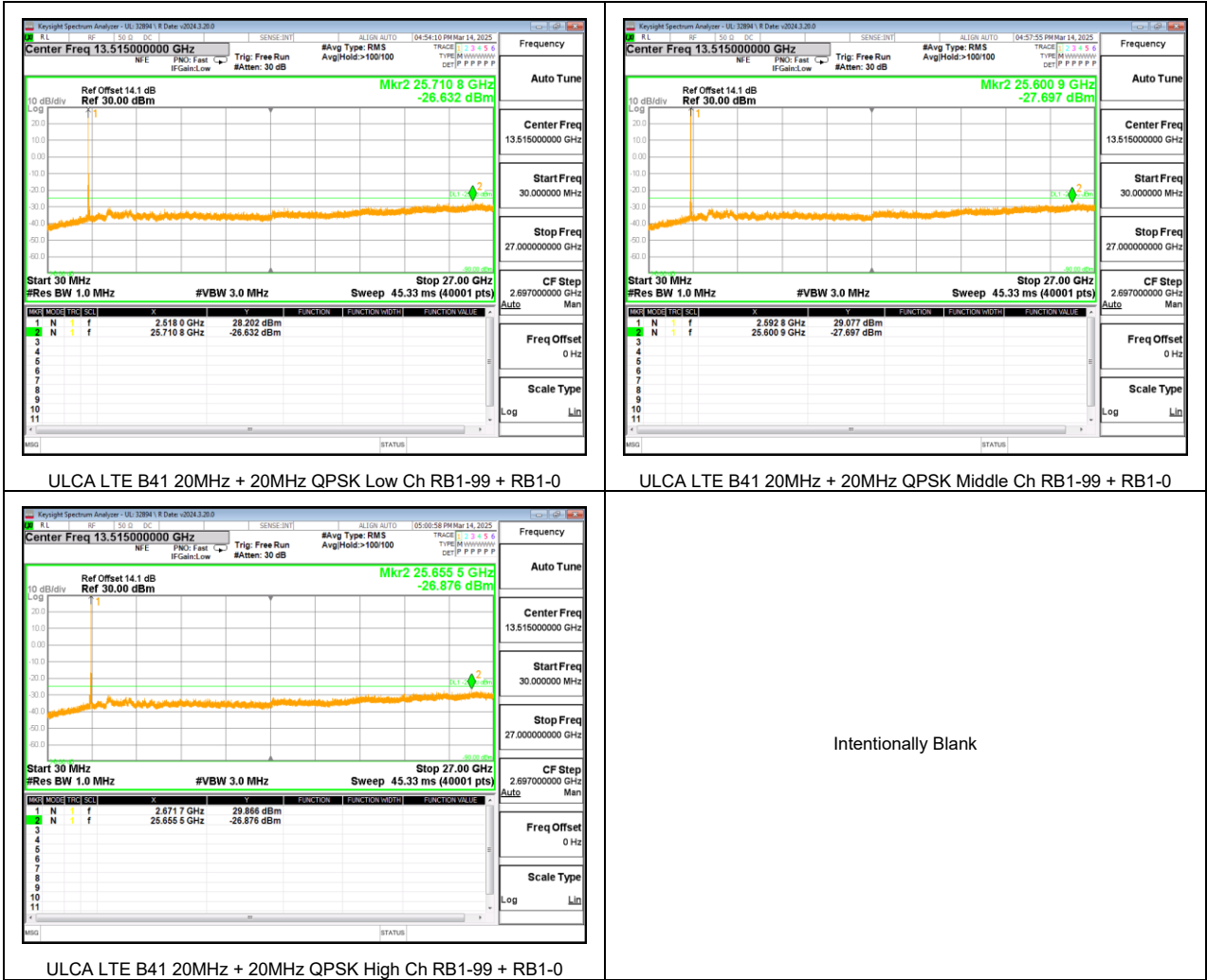


### 9.3.6. 5G NR n41 (FCC MIMO)

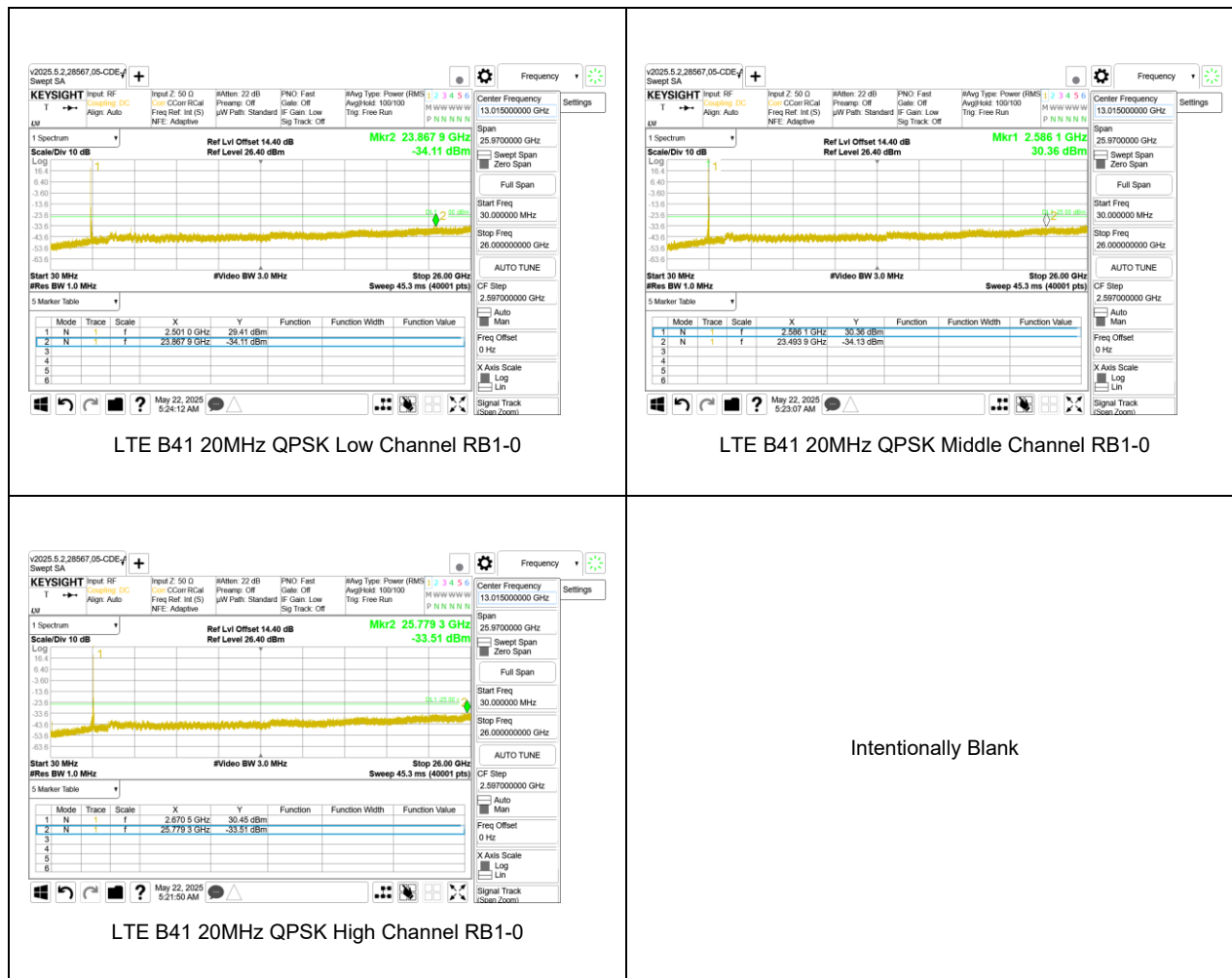




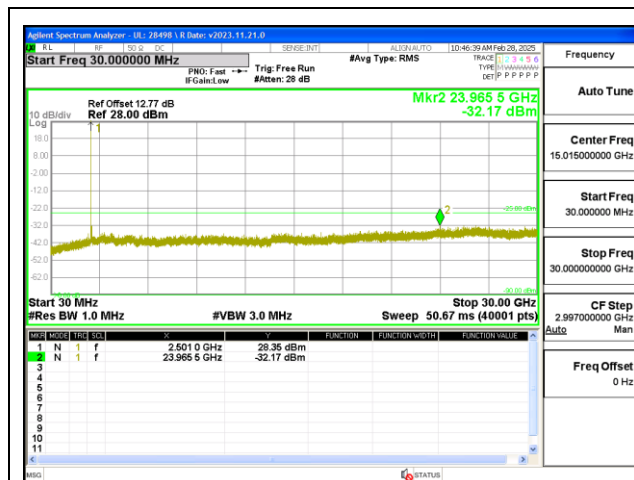
9.3.7. ULCA LTE BAND 41 (FCC)



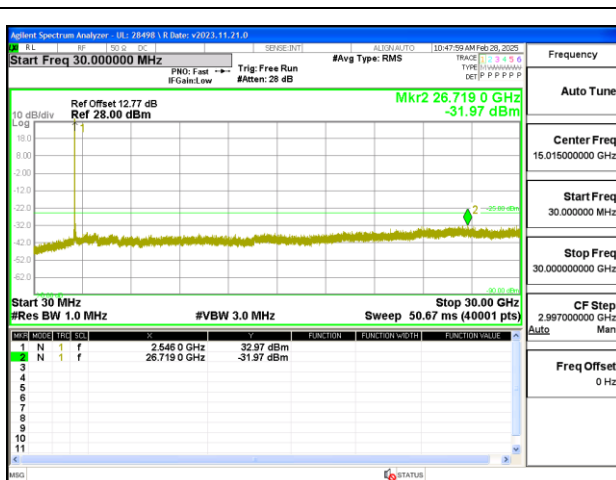
### 9.3.8. LTE BAND 41 (IC)



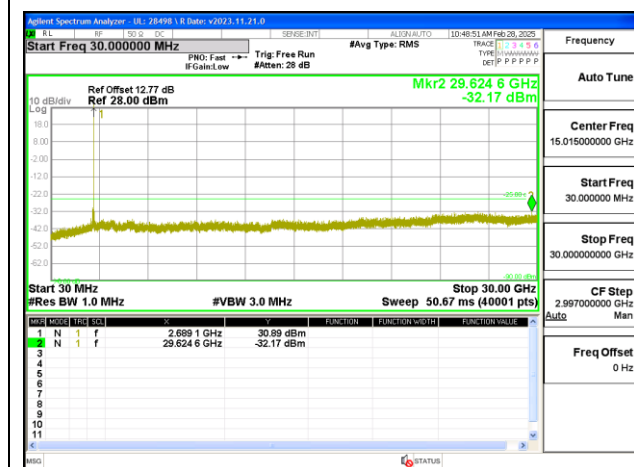
### 9.3.9. 5G NR n41 (IC)



5G NR n41 100MHz BPSK Low Channel RB1-0



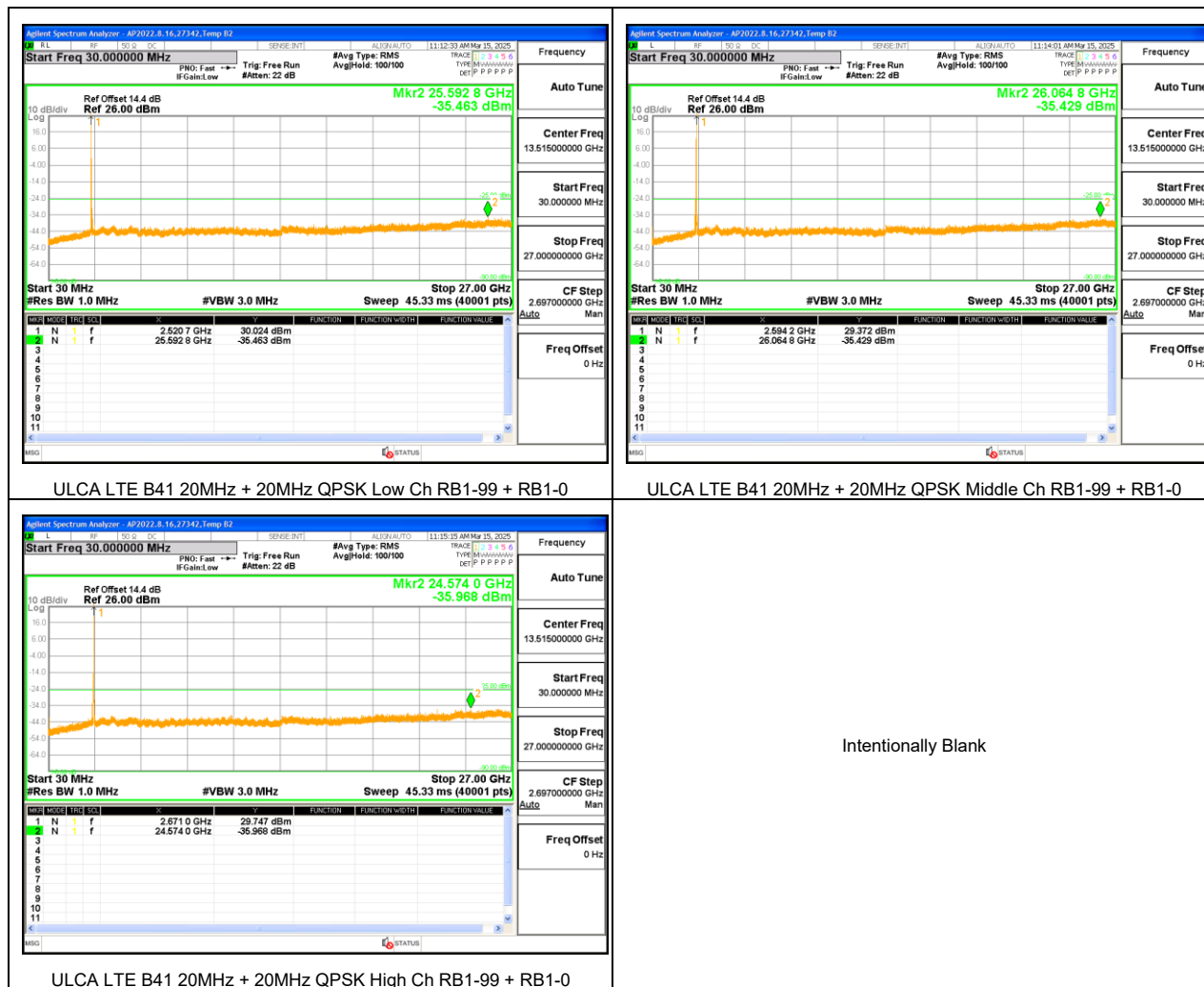
5G NR n41 100MHz BPSK Middle Channel RB1-1



5G NR n41 100MHz BPSK High Channel RB1-272

Intentionally Blank

### 9.3.10. ULCA LTE BAND 41 (IC)



## 9.4. FREQUENCY STABILITY

### LIMITS

FCC: §27.54

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

ISED: RSS199§5.4  
Frequency Stability

The frequency stability shall be sufficient to ensure that the occupied bandwidth stays within the operating frequency block or frequency block group when tested to the temperature and supply voltage variations specified in RSS-Gen.

### TEST PROCEDURE

Use base station simulator with Frequency Error measurement capability.

- Temp. = -30°C to +50°C
- Voltage = (85% - 115%)  
Low voltage, 3.23VDC, Normal, 3.8VDC and High voltage, 4.37VDC.  
End Voltage, 3.2VDC.

#### **Frequency Stability vs Temperature:**

The EUT is placed inside a temperature chamber. The temperature is set to 20°C and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured. The temperature is increased by 10 degrees, allowed to stabilize and soak, and then the measurement is repeated. This is repeated until +50°C is reached.

#### **Frequency Stability vs Voltage:**

The peak frequency error is recorded (worst-case).

### RESULTS



### 9.4.1. LTE BAND 7 (QPSK 20MHz BANDWIDTH)

|                   |       |            |            |
|-------------------|-------|------------|------------|
| Test Engineer ID: | 27700 | Test Date: | 2025-02-27 |
|-------------------|-------|------------|------------|

| Band            | 7                 | Frequency Range              |                               | Frequency Error Reading (Hz) | Limit                     |                                        |
|-----------------|-------------------|------------------------------|-------------------------------|------------------------------|---------------------------|----------------------------------------|
| Condition       |                   | 2500                         | 2570                          |                              | Frequency Stability (ppm) | Within Authorized Frequency Block (Hz) |
|                 |                   | Freq Reading @ Low End (MHz) | Freq Reading @ High End (MHz) |                              |                           |                                        |
| Temperature     | Voltage           |                              |                               |                              |                           |                                        |
| Normal (20°C)   | Normal            | 2501.0384                    | 2568.9338                     |                              |                           |                                        |
| Extreme (50°C)  |                   | 2501.0384                    | 2568.9338                     | -1.3                         | 0.000                     | Yes                                    |
| Extreme (40°C)  |                   | 2501.0384                    | 2568.9338                     | 0.8                          | 0.000                     | Yes                                    |
| Extreme (30°C)  |                   | 2501.0384                    | 2568.9338                     | -1.3                         | -0.001                    | Yes                                    |
| Extreme (10°C)  |                   | 2501.0384                    | 2568.9338                     | 1.3                          | 0.001                     | Yes                                    |
| Extreme (0°C)   |                   | 2501.0384                    | 2568.9338                     | 0.8                          | 0.000                     | Yes                                    |
| Extreme (-10°C) |                   | 2501.0384                    | 2568.9338                     | -1.7                         | -0.001                    | Yes                                    |
| Extreme (-20°C) |                   | 2501.0384                    | 2568.9338                     | -1.3                         | -0.001                    | Yes                                    |
| Extreme (-30°C) |                   | 2501.0384                    | 2568.9338                     | 0.4                          | 0.000                     | Yes                                    |
|                 |                   |                              |                               |                              |                           |                                        |
| 20°C            | 15%               | 2501.0384                    | 2568.9338                     | 0.3                          | 0.000                     | Yes                                    |
|                 | -15%              | 2501.0384                    | 2568.9338                     | 0.1                          | 0.000                     | Yes                                    |
|                 | End Point Voltage | 2501.0384                    | 2568.9338                     | 1.9                          | 0.001                     | Yes                                    |

### 9.4.2. 5G NR n7 (BPSK 50MHz BANDWIDTH)

|                   |       |            |            |
|-------------------|-------|------------|------------|
| Test Engineer ID: | 27700 | Test Date: | 2025-03-07 |
|-------------------|-------|------------|------------|

| Band            | 7                 | Frequency Range              |                               | Frequency Error Reading (Hz) | Limit                     |                                        |
|-----------------|-------------------|------------------------------|-------------------------------|------------------------------|---------------------------|----------------------------------------|
| Condition       |                   | 2500                         | 2570                          |                              | Frequency Stability (ppm) | Within Authorized Frequency Block (Hz) |
|                 |                   | Freq Reading @ Low End (MHz) | Freq Reading @ High End (MHz) |                              |                           |                                        |
| Temperature     | Voltage           |                              |                               |                              |                           |                                        |
| Normal (20°C)   | Normal            | 2500.8687                    | 2569.0319                     |                              |                           |                                        |
| Extreme (50°C)  |                   | 2500.8687                    | 2569.0319                     | -7.1                         | -0.003                    | Yes                                    |
| Extreme (40°C)  |                   | 2500.8687                    | 2569.0319                     | -7.75                        | -0.003                    | Yes                                    |
| Extreme (30°C)  |                   | 2500.8687                    | 2569.0319                     | -8.37                        | -0.003                    | Yes                                    |
| Extreme (10°C)  |                   | 2500.8687                    | 2569.0319                     | -4.12                        | -0.002                    | Yes                                    |
| Extreme (0°C)   |                   | 2500.8687                    | 2569.0319                     | -8.43                        | -0.003                    | Yes                                    |
| Extreme (-10°C) |                   | 2500.8687                    | 2569.0319                     | -6.37                        | -0.003                    | Yes                                    |
| Extreme (-20°C) |                   | 2500.8687                    | 2569.0319                     | -4.99                        | -0.002                    | Yes                                    |
| Extreme (-30°C) |                   | 2500.8687                    | 2569.0319                     | -7.72                        | -0.003                    | Yes                                    |
|                 |                   |                              |                               |                              |                           |                                        |
| 20°C            | 15%               | 2500.8687                    | 2569.0319                     | -5.84                        | -0.002                    | Yes                                    |
|                 | -15%              | 2500.8687                    | 2569.0319                     | -5.33                        | -0.002                    | Yes                                    |
|                 | End Point Voltage | 2500.8687                    | 2569.0319                     | -8.41                        | -0.003                    | Yes                                    |

### 9.4.3. ULCA LTE BAND 7 (QPSK 20MHz + 20MHz BANDWIDTH)

|                   |       |            |            |
|-------------------|-------|------------|------------|
| Test Engineer ID: | 27700 | Test Date: | 2025-03-13 |
|-------------------|-------|------------|------------|

| Band            | 7                 | Frequency Range              |                               | Frequency Error Reading (Hz) | Limit                     |                                        |
|-----------------|-------------------|------------------------------|-------------------------------|------------------------------|---------------------------|----------------------------------------|
| Condition       |                   | 2500                         | 2570                          |                              |                           |                                        |
|                 |                   | Freq Reading @ Low End (MHz) | Freq Reading @ High End (MHz) |                              | Frequency Stability (ppm) | Within Authorized Frequency Block (Hz) |
| Temperature     | Voltage           |                              |                               |                              |                           |                                        |
| Normal (20°C)   | Normal            | 2501.1312                    | 2568.8602                     |                              |                           |                                        |
| Extreme (50°C)  |                   | 2501.1312                    | 2568.8602                     | 42.5                         | 0.017                     | Yes                                    |
| Extreme (40°C)  |                   | 2501.1312                    | 2568.8602                     | 27.9                         | 0.011                     | Yes                                    |
| Extreme (30°C)  |                   | 2501.1312                    | 2568.8602                     | 11.4                         | 0.004                     | Yes                                    |
| Extreme (10°C)  |                   | 2501.1312                    | 2568.8602                     | -8.5                         | -0.003                    | Yes                                    |
| Extreme (0°C)   |                   | 2501.1312                    | 2568.8602                     | -16.9                        | -0.007                    | Yes                                    |
| Extreme (-10°C) |                   | 2501.1312                    | 2568.8602                     | -20.9                        | -0.008                    | Yes                                    |
| Extreme (-20°C) |                   | 2501.1312                    | 2568.8602                     | -28.0                        | -0.011                    | Yes                                    |
| Extreme (-30°C) |                   | 2501.1312                    | 2568.8602                     | -22.1                        | -0.009                    | Yes                                    |
|                 |                   |                              |                               |                              |                           |                                        |
| 20°C            | 15%               | 2501.1312                    | 2568.8602                     | 39.6                         | 0.016                     | Yes                                    |
|                 | -15%              | 2501.1312                    | 2568.8602                     | 45.5                         | 0.018                     | Yes                                    |
|                 | End Point Voltage | 2501.1312                    | 2568.8602                     | 36.4                         | 0.014                     | Yes                                    |

#### 9.4.4. LTE B41 (QPSK 20MHz BANDWIDTH, FCC)

|                   |       |            |            |
|-------------------|-------|------------|------------|
| Test Engineer ID: | 27700 | Test Date: | 2025-03-04 |
|-------------------|-------|------------|------------|

| Band            | 41                | Frequency Range              |                               | Frequency Error Reading (Hz) | Limit                     |                                        |
|-----------------|-------------------|------------------------------|-------------------------------|------------------------------|---------------------------|----------------------------------------|
| Condition       |                   | 2496                         | 2690                          |                              | 0                         |                                        |
|                 |                   | Freq Reading @ Low End (MHz) | Freq Reading @ High End (MHz) |                              | Frequency Stability (ppm) | Within Authorized Frequency Block (Hz) |
| Temperature     | Voltage           |                              |                               |                              |                           |                                        |
| Normal (20°C)   | Normal            | 2497.1215                    | 2689.2988                     |                              |                           |                                        |
| Extreme (50°C)  |                   | 2497.1215                    | 2689.2988                     | -2.9                         | -0.001                    | Yes                                    |
| Extreme (40°C)  |                   | 2497.1215                    | 2689.2988                     | -0.1                         | 0.000                     | Yes                                    |
| Extreme (30°C)  |                   | 2497.1215                    | 2689.2988                     | -0.2                         | 0.000                     | Yes                                    |
| Extreme (10°C)  |                   | 2497.1215                    | 2689.2988                     | -2.2                         | -0.001                    | Yes                                    |
| Extreme (0°C)   |                   | 2497.1215                    | 2689.2988                     | -0.2                         | 0.000                     | Yes                                    |
| Extreme (-10°C) |                   | 2497.1215                    | 2689.2988                     | -3.8                         | -0.001                    | Yes                                    |
| Extreme (-20°C) |                   | 2497.1215                    | 2689.2988                     | -0.1                         | 0.000                     | Yes                                    |
| Extreme (-30°C) |                   | 2497.1215                    | 2689.2988                     | -2.3                         | -0.001                    | Yes                                    |
|                 |                   |                              |                               |                              |                           |                                        |
| 20°C            | 15%               | 2497.1215                    | 2689.2888                     | -0.1                         | 0.000                     | Yes                                    |
|                 | -15%              | 2497.1215                    | 2689.2888                     | -2.7                         | -0.001                    | Yes                                    |
|                 | End Point Voltage | 2497.1215                    | 2689.2888                     | -5.5                         | -0.002                    | Yes                                    |

#### 9.4.5. 5G NR n41 (BPSK 100MHz BANDWIDTH, FCC)

|                   |       |            |            |
|-------------------|-------|------------|------------|
| Test Engineer ID: | 27700 | Test Date: | 2025-03-07 |
|-------------------|-------|------------|------------|

| Band            | 41                | Frequency Range              |                               | Frequency Error Reading (Hz) | Limit                     |                                        |
|-----------------|-------------------|------------------------------|-------------------------------|------------------------------|---------------------------|----------------------------------------|
| Condition       |                   | 2496                         | 2690                          |                              | 0                         |                                        |
|                 |                   | Freq Reading @ Low End (MHz) | Freq Reading @ High End (MHz) |                              | Frequency Stability (ppm) | Within Authorized Frequency Block (Hz) |
| Temperature     | Voltage           |                              |                               |                              |                           |                                        |
| Normal (20°C)   | Normal            | 2497.2244                    | 2687.7578                     |                              |                           |                                        |
| Extreme (50°C)  |                   | 2497.2244                    | 2687.7578                     | -4.15                        | -0.002                    | Yes                                    |
| Extreme (40°C)  |                   | 2497.2244                    | 2687.7578                     | -10.544                      | -0.004                    | Yes                                    |
| Extreme (30°C)  |                   | 2497.2244                    | 2687.7578                     | -8.88                        | -0.003                    | Yes                                    |
| Extreme (10°C)  |                   | 2497.2244                    | 2687.7578                     | -2.33                        | -0.001                    | Yes                                    |
| Extreme (0°C)   |                   | 2497.2244                    | 2687.7578                     | -11.66                       | -0.004                    | Yes                                    |
| Extreme (-10°C) |                   | 2497.2244                    | 2687.7578                     | -8.26                        | -0.003                    | Yes                                    |
| Extreme (-20°C) |                   | 2497.2244                    | 2687.7578                     | -5.96                        | -0.002                    | Yes                                    |
| Extreme (-30°C) |                   | 2497.2244                    | 2687.7578                     | -8.86                        | -0.003                    | Yes                                    |
|                 |                   |                              |                               |                              |                           |                                        |
| 20°C            | 15%               | 2497.2244                    | 2687.7578                     | -8.62                        | -0.003                    | Yes                                    |
|                 | -15%              | 2497.2244                    | 2687.7578                     | -7.37                        | -0.003                    | Yes                                    |
|                 | End Point Voltage | 2497.2244                    | 2687.7578                     | -6.47                        | -0.002                    | Yes                                    |

#### 9.4.6. ULCA LTE BAND 41 (QPSK 20MHz + 20MHz BANDWIDTH, FCC)

|                   |       |            |            |
|-------------------|-------|------------|------------|
| Test Engineer ID: | 27700 | Test Date: | 2025-03-13 |
|-------------------|-------|------------|------------|

| Band            | 41                | Frequency Range              |                               | Frequency Error Reading (Hz) | Limit                     |                                        |
|-----------------|-------------------|------------------------------|-------------------------------|------------------------------|---------------------------|----------------------------------------|
| Condition       |                   | 2496                         | 2690                          |                              |                           |                                        |
|                 |                   | Freq Reading @ Low End (MHz) | Freq Reading @ High End (MHz) |                              | Frequency Stability (ppm) | Within Authorized Frequency Block (Hz) |
| Temperature     | Voltage           |                              |                               |                              |                           |                                        |
| Normal (20°C)   | Normal            | 2496.5339                    | 2689.6317                     |                              |                           |                                        |
| Extreme (50°C)  |                   | 2496.5339                    | 2689.6317                     | 23.9                         | 0.009                     | Yes                                    |
| Extreme (40°C)  |                   | 2496.5339                    | 2689.6317                     | 10.6                         | 0.004                     | Yes                                    |
| Extreme (30°C)  |                   | 2496.5339                    | 2689.6317                     | 6.3                          | 0.002                     | Yes                                    |
| Extreme (10°C)  |                   | 2496.5339                    | 2689.6317                     | -32.4                        | -0.012                    | Yes                                    |
| Extreme (0°C)   |                   | 2496.5339                    | 2689.6317                     | -30.7                        | -0.012                    | Yes                                    |
| Extreme (-10°C) |                   | 2496.5339                    | 2689.6317                     | -37.7                        | -0.015                    | Yes                                    |
| Extreme (-20°C) |                   | 2496.5339                    | 2689.6317                     | -34.9                        | -0.013                    | Yes                                    |
| Extreme (-30°C) |                   | 2496.5339                    | 2689.6317                     | -33.9                        | -0.013                    | Yes                                    |
|                 |                   |                              |                               |                              |                           |                                        |
| 20°C            | 15%               | 2496.5339                    | 2689.6317                     | 26.4                         | 0.010                     | Yes                                    |
|                 | -15%              | 2496.5339                    | 2689.6317                     | 31.2                         | 0.012                     | Yes                                    |
|                 | End Point Voltage | 2496.5339                    | 2689.6317                     | 21.9                         | 0.008                     | Yes                                    |

#### 9.4.7. LTE B41 (QPSK 20MHz BANDWIDTH, IC)

|                   |       |            |            |
|-------------------|-------|------------|------------|
| Test Engineer ID: | 27700 | Test Date: | 2025-03-04 |
|-------------------|-------|------------|------------|

| Band            | 41                | Frequency Range              |                               | Frequency Error Reading (Hz) | Limit                     |                                        |
|-----------------|-------------------|------------------------------|-------------------------------|------------------------------|---------------------------|----------------------------------------|
| Condition       |                   | 2500                         | 2690                          |                              | 0                         |                                        |
|                 |                   | Freq Reading @ Low End (MHz) | Freq Reading @ High End (MHz) |                              | Frequency Stability (ppm) | Within Authorized Frequency Block (Hz) |
| Temperature     | Voltage           |                              |                               |                              |                           |                                        |
| Normal (20°C)   | Normal            | 2500.9666                    | 2689.2988                     |                              |                           |                                        |
| Extreme (50°C)  |                   | 2500.9666                    | 2689.2988                     | -2.7                         | -0.001                    | Yes                                    |
| Extreme (40°C)  |                   | 2500.9666                    | 2689.2988                     | -3.4                         | -0.001                    | Yes                                    |
| Extreme (30°C)  |                   | 2500.9666                    | 2689.2988                     | -4.3                         | -0.002                    | Yes                                    |
| Extreme (10°C)  |                   | 2500.9666                    | 2689.2988                     | -3.4                         | -0.001                    | Yes                                    |
| Extreme (0°C)   |                   | 2500.9666                    | 2689.2988                     | -1.4                         | -0.001                    | Yes                                    |
| Extreme (-10°C) |                   | 2500.9666                    | 2689.2988                     | -2.8                         | -0.001                    | Yes                                    |
| Extreme (-20°C) |                   | 2500.9666                    | 2689.2988                     | -1.6                         | -0.001                    | Yes                                    |
| Extreme (-30°C) |                   | 2500.9666                    | 2689.2988                     | -0.2                         | 0.000                     | Yes                                    |
|                 |                   |                              |                               |                              |                           |                                        |
| 20°C            | 15%               | 2500.9666                    | 2689.2988                     | -2.0                         | -0.001                    | Yes                                    |
|                 | -15%              | 2500.9666                    | 2688.9330                     | -6.6                         | -0.003                    | Yes                                    |
|                 | End Point Voltage | 2500.9666                    | 2688.9330                     | -3.1                         | -0.001                    | Yes                                    |

#### 9.4.8. 5G NR n41 (BPSK 100MHz BANDWIDTH, IC)

|                   |       |            |            |
|-------------------|-------|------------|------------|
| Test Engineer ID: | 27700 | Test Date: | 2025-03-07 |
|-------------------|-------|------------|------------|

| Band            | 41                | Frequency Range              |                               | Frequency Error Reading (Hz) | Limit                     |                                        |
|-----------------|-------------------|------------------------------|-------------------------------|------------------------------|---------------------------|----------------------------------------|
| Condition       |                   | 2500                         | 2690                          |                              | 0                         |                                        |
|                 |                   | Freq Reading @ Low End (MHz) | Freq Reading @ High End (MHz) |                              | Frequency Stability (ppm) | Within Authorized Frequency Block (Hz) |
| Temperature     | Voltage           |                              |                               |                              |                           |                                        |
| Normal (20°C)   | Normal            | 2501.2085                    | 2687.7146                     |                              |                           |                                        |
| Extreme (50°C)  |                   | 2501.2085                    | 2687.7146                     | -9.17                        | -0.004                    | Yes                                    |
| Extreme (40°C)  |                   | 2501.2085                    | 2687.7146                     | -10.82                       | -0.004                    | Yes                                    |
| Extreme (30°C)  |                   | 2501.2085                    | 2687.7146                     | -9.78                        | -0.004                    | Yes                                    |
| Extreme (10°C)  |                   | 2501.2085                    | 2687.7146                     | -1.32                        | -0.001                    | Yes                                    |
| Extreme (0°C)   |                   | 2501.2085                    | 2687.7146                     | -5.63                        | -0.002                    | Yes                                    |
| Extreme (-10°C) |                   | 2501.2085                    | 2687.7146                     | -4.26                        | -0.002                    | Yes                                    |
| Extreme (-20°C) |                   | 2501.2085                    | 2687.7146                     | -8.99                        | -0.003                    | Yes                                    |
| Extreme (-30°C) |                   | 2501.2085                    | 2687.7146                     | -4.61                        | -0.002                    | Yes                                    |
|                 |                   |                              |                               |                              |                           |                                        |
| 20°C            | 15%               | 2501.2085                    | 2687.7146                     | -4.7                         | -0.002                    | Yes                                    |
|                 | -15%              | 2501.2085                    | 2687.7146                     | -11.17                       | -0.004                    | Yes                                    |
|                 | End Point Voltage | 2501.2085                    | 2687.7146                     | -7.17                        | -0.003                    | Yes                                    |

#### 9.4.9. ULCA LTE BAND 41 (QPSK 20MHz + 20MHz BANDWIDTH, IC)

|                   |       |            |            |
|-------------------|-------|------------|------------|
| Test Engineer ID: | 27700 | Test Date: | 2025-03-13 |
|-------------------|-------|------------|------------|

| Band            | 41                | Frequency Range              |                               | Frequency Error Reading (Hz) | Limit                     |                                        |
|-----------------|-------------------|------------------------------|-------------------------------|------------------------------|---------------------------|----------------------------------------|
| Condition       |                   | 2496                         | 2690                          |                              |                           |                                        |
|                 |                   | Freq Reading @ Low End (MHz) | Freq Reading @ High End (MHz) |                              | Frequency Stability (ppm) | Within Authorized Frequency Block (Hz) |
| Temperature     | Voltage           |                              |                               |                              |                           |                                        |
| Normal (20°C)   | Normal            | 2500.4027                    | 2688.9427                     |                              |                           |                                        |
| Extreme (50°C)  |                   | 2500.4027                    | 2688.9427                     | 34.0                         | 0.013                     | Yes                                    |
| Extreme (40°C)  |                   | 2500.4027                    | 2688.9427                     | 14.4                         | 0.006                     | Yes                                    |
| Extreme (30°C)  |                   | 2500.4027                    | 2688.9427                     | -13.4                        | -0.005                    | Yes                                    |
| Extreme (10°C)  |                   | 2500.4027                    | 2688.9427                     | -25.8                        | -0.010                    | Yes                                    |
| Extreme (0°C)   |                   | 2500.4027                    | 2688.9427                     | -32.3                        | -0.012                    | Yes                                    |
| Extreme (-10°C) |                   | 2500.4027                    | 2688.9427                     | -35.8                        | -0.014                    | Yes                                    |
| Extreme (-20°C) |                   | 2500.4027                    | 2688.9427                     | -31.4                        | -0.012                    | Yes                                    |
| Extreme (-30°C) |                   | 2500.4027                    | 2688.9427                     | -26.0                        | -0.010                    | Yes                                    |
|                 |                   |                              |                               |                              |                           |                                        |
| 20°C            | 15%               | 2500.4027                    | 2688.9427                     | 39.6                         | 0.015                     | Yes                                    |
|                 | -15%              | 2500.4027                    | 2688.9427                     | 40.1                         | 0.015                     | Yes                                    |
|                 | End Point Voltage | 2500.4027                    | 2688.9427                     | 43.9                         | 0.017                     | Yes                                    |

## 9.5. PEAK-TO-AVERAGE POWER RATIO

### LIMIT

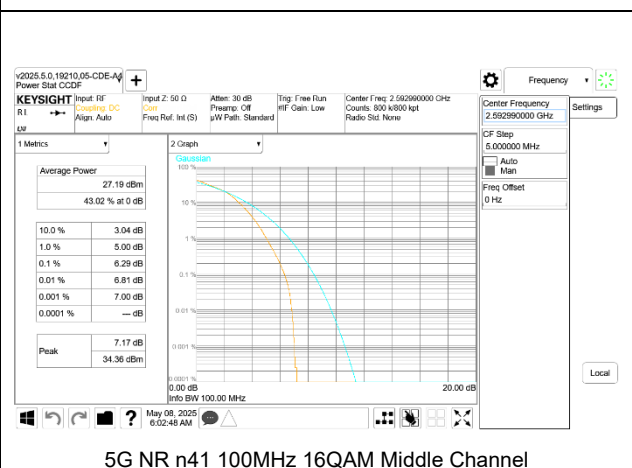
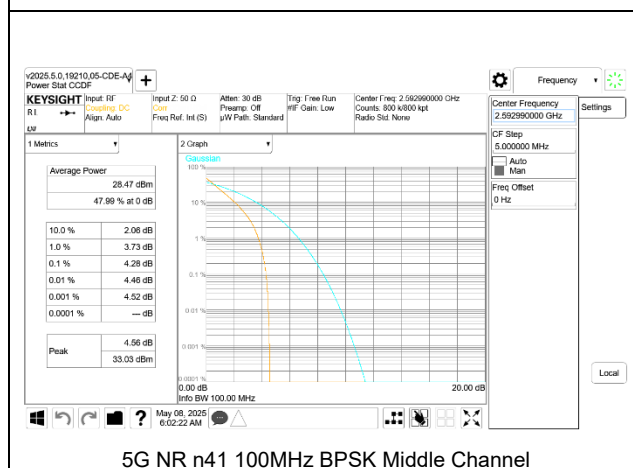
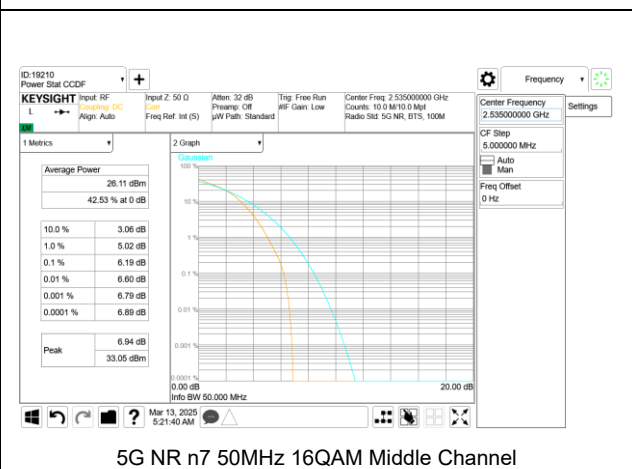
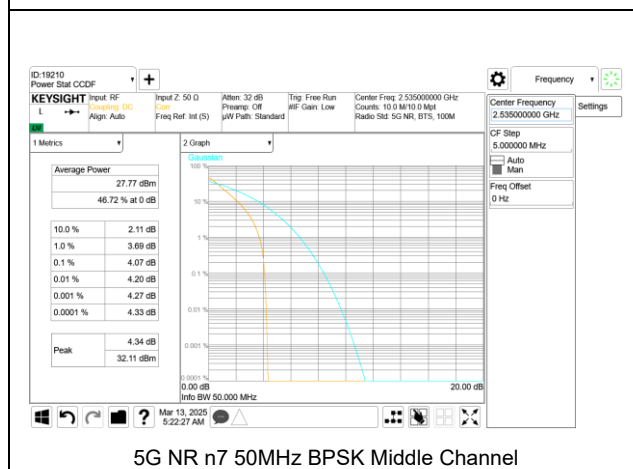
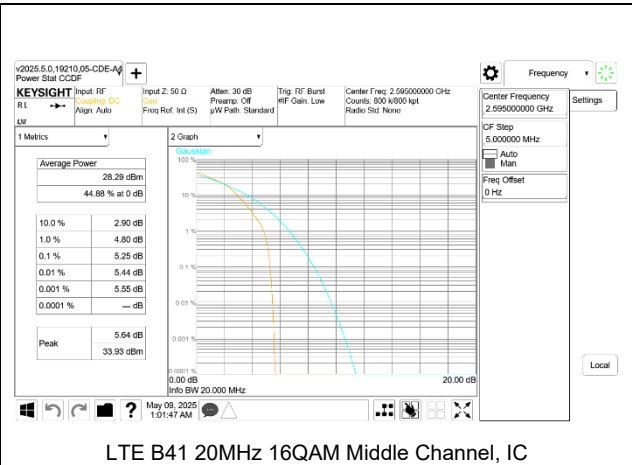
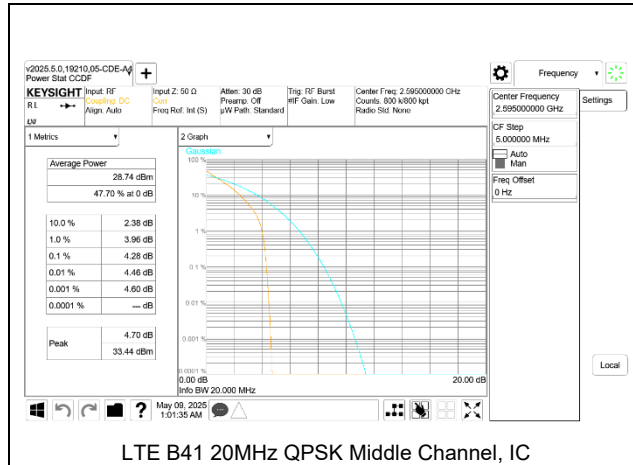
ISED: RSS199§5.5

In addition, the peak-to-average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time and shall use a signal corresponding to the highest PAPR during periods of continuous transmission.

### RESULT

The worst-case antenna port for conducted power shown in section 6.5. was used to measure as the worst case; full resource block (FRB) for each bandwidth was used to measure as the worst case. The results from all CCDF measurements are passed with 13dB peak-to-average power ratio criteria.

**Example Plots: FULL RB**



### 9.5.1. LTE BAND 7

|                          |       |                   |            |
|--------------------------|-------|-------------------|------------|
| <b>Test Engineer ID:</b> | 39004 | <b>Test Date:</b> | 2025-02-03 |
|--------------------------|-------|-------------------|------------|

| Band                                                                                       | Bandwidth (MHz) | Frequency (MHz) | RB Allocation | RB OffSet | Modulation | Conducted Power (dBm) |         | Peak-to-Average Power Ratio (dB) |
|--------------------------------------------------------------------------------------------|-----------------|-----------------|---------------|-----------|------------|-----------------------|---------|----------------------------------|
|                                                                                            |                 |                 |               |           |            | Peak                  | Average |                                  |
| LTE Band 7                                                                                 | 5MHz            | 2535.0          | 25            | 0         | QPSK       | 30.81                 | 27.10   | 3.71                             |
|                                                                                            | 10MHz           |                 | 50            | 0         | 16QAM      | 31.95                 | 27.33   | 4.62                             |
|                                                                                            |                 |                 |               |           | QPSK       | 30.38                 | 27.03   | 3.35                             |
|                                                                                            |                 |                 |               |           | 16QAM      | 31.74                 | 27.14   | 4.60                             |
|                                                                                            |                 |                 |               |           | QPSK       | 30.67                 | 27.03   | 3.64                             |
|                                                                                            | 15MHz           |                 | 75            | 0         | 16QAM      | 31.26                 | 26.94   | 4.32                             |
|                                                                                            |                 |                 |               |           | QPSK       | 30.28                 | 26.94   | 3.34                             |
|                                                                                            | 20MHz           |                 | 100           | 0         | QPSK       | 30.28                 | 26.94   | 3.34                             |
| 16QAM                                                                                      |                 | 31.63           |               |           | 27.00      | 4.63                  |         |                                  |
| Duty Cycle Correction Factor (dB) =                                                        |                 |                 | 0.00          |           |            |                       |         |                                  |
| Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor |                 |                 |               |           |            |                       |         |                                  |

### 9.5.2. 5G NR n7

|                          |       |                   |            |
|--------------------------|-------|-------------------|------------|
| <b>Test Engineer ID:</b> | 19210 | <b>Test Date:</b> | 2025-03-12 |
|--------------------------|-------|-------------------|------------|

| Band                                                                                       | Bandwidth (MHz) | Frequency (MHz) | RB Allocation | RB OffSet | Modulation | Conducted Power (dBm) |         | Peak-to-Average Power Ratio (dB) |
|--------------------------------------------------------------------------------------------|-----------------|-----------------|---------------|-----------|------------|-----------------------|---------|----------------------------------|
|                                                                                            |                 |                 |               |           |            | Peak                  | Average |                                  |
| 5G NR n7                                                                                   | 5MHz            | 2535.0          | 25            | 0         | BPSK       | 31.20                 | 26.91   | 4.29                             |
|                                                                                            |                 |                 |               |           | 16QAM      | 31.62                 | 24.89   | 6.73                             |
|                                                                                            | 10MHz           |                 | 50            | 0         | BPSK       | 31.10                 | 27.03   | 4.07                             |
|                                                                                            |                 |                 |               |           | 16QAM      | 31.79                 | 25.11   | 6.68                             |
|                                                                                            | 15MHz           |                 | 75            | 0         | BPSK       | 31.32                 | 26.90   | 4.42                             |
|                                                                                            |                 |                 |               |           | 16QAM      | 32.15                 | 25.06   | 7.09                             |
|                                                                                            | 20MHz           |                 | 100           | 0         | BPSK       | 31.72                 | 27.00   | 4.72                             |
|                                                                                            |                 |                 |               |           | 16QAM      | 32.69                 | 25.37   | 7.32                             |
|                                                                                            | 25MHz           |                 | 128           | 0         | BPSK       | 31.99                 | 27.05   | 4.94                             |
|                                                                                            |                 |                 |               |           | 16QAM      | 32.75                 | 25.44   | 7.31                             |
|                                                                                            | 30MHz           |                 | 160           | 0         | BPSK       | 31.86                 | 27.09   | 4.77                             |
|                                                                                            |                 |                 |               |           | 16QAM      | 32.76                 | 25.50   | 7.26                             |
|                                                                                            | 35MHz           |                 | 180           | 0         | BPSK       | 32.42                 | 27.65   | 4.77                             |
|                                                                                            |                 |                 |               |           | 16QAM      | 33.31                 | 26.06   | 7.25                             |
|                                                                                            | 40MHz           |                 | 216           | 0         | BPSK       | 32.30                 | 27.57   | 4.73                             |
|                                                                                            |                 |                 |               |           | 16QAM      | 33.15                 | 26.08   | 7.07                             |
|                                                                                            | 50MHz           |                 | 270           | 0         | BPSK       | 32.11                 | 27.77   | 4.34                             |
|                                                                                            |                 |                 |               |           | 16QAM      | 33.05                 | 26.11   | 6.94                             |
| Duty Cycle Correction Factor (dB) =                                                        |                 |                 | 0.00          |           |            |                       |         |                                  |
| Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor |                 |                 |               |           |            |                       |         |                                  |



### 9.5.3. ULCA LTE BAND 7

|                          |       |                   |            |
|--------------------------|-------|-------------------|------------|
| <b>Test Engineer ID:</b> | 19210 | <b>Test Date:</b> | 2025-05-07 |
|--------------------------|-------|-------------------|------------|

| Band                                                                                       | Bandwidth<br>(MHz) | PCC<br>f (MHz) | SCC1<br>f (MHz) | Modulation | Conducted Power (dBm) |         | Peak-to-Average<br>Power Ratio (dB) |
|--------------------------------------------------------------------------------------------|--------------------|----------------|-----------------|------------|-----------------------|---------|-------------------------------------|
|                                                                                            |                    |                |                 |            | Peak                  | Average |                                     |
| ULCA LTE<br>Band 7                                                                         | 10MHz /<br>20MHz   | 2525.6         | 2540.0          | QPSK       | 31.74                 | 25.74   | 6.00                                |
|                                                                                            |                    |                |                 | 16QAM      | 31.91                 | 24.72   | 7.19                                |
|                                                                                            | 20MHz /<br>10MHz   | 2530.1         | 2544.5          | QPSK       | 31.72                 | 25.71   | 6.01                                |
|                                                                                            |                    |                |                 | 16QAM      | 31.87                 | 24.75   | 7.12                                |
|                                                                                            | 15 MHz /<br>15MHz  | 2527.5         | 2542.5          | QPSK       | 31.79                 | 25.71   | 6.08                                |
|                                                                                            |                    |                |                 | 16QAM      | 31.94                 | 24.74   | 7.20                                |
|                                                                                            | 15MHz /<br>20MHz   | 2525.3         | 2542.4          | QPSK       | 32.00                 | 25.75   | 6.25                                |
|                                                                                            |                    |                |                 | 16QAM      | 32.09                 | 24.77   | 7.32                                |
|                                                                                            | 20MHz /<br>15MHz   | 2527.6         | 2544.7          | QPSK       | 31.83                 | 25.72   | 6.11                                |
|                                                                                            |                    |                |                 | 16QAM      | 32.09                 | 24.75   | 7.34                                |
| 20MHz /<br>20MHz                                                                           | 2525.1             | 2544.9         | QPSK            | 31.85      | 25.79                 | 6.06    |                                     |
|                                                                                            |                    |                | 16QAM           | 32.02      | 24.78                 | 7.24    |                                     |
| Duty Cycle Correction Factor (dB) =                                                        |                    |                | 0.00            |            |                       |         |                                     |
| Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor |                    |                |                 |            |                       |         |                                     |

### 9.5.4. LTE BAND 41 (FCC)

|                          |       |                   |            |
|--------------------------|-------|-------------------|------------|
| <b>Test Engineer ID:</b> | 39004 | <b>Test Date:</b> | 2025-02-03 |
|--------------------------|-------|-------------------|------------|

| Band                                                                                       | Bandwidth (MHz) | Frequency (MHz) | RB Allocation | RB OffSet | Modulation | Conducted Power (dBm) |         | Peak-to-Average Power Ratio (dB) |
|--------------------------------------------------------------------------------------------|-----------------|-----------------|---------------|-----------|------------|-----------------------|---------|----------------------------------|
|                                                                                            |                 |                 |               |           |            | Peak                  | Average |                                  |
| LTE<br>Band 41                                                                             | 5MHz            | 2593.0          | 25            | 0         | QPSK       | 35.50                 | 20.46   | 8.05                             |
|                                                                                            |                 |                 |               |           | 16QAM      | 33.37                 | 20.83   | 5.55                             |
|                                                                                            | 10MHz           |                 | 50            | 0         | QPSK       | 35.22                 | 21.29   | 6.94                             |
|                                                                                            |                 |                 |               |           | 16QAM      | 33.79                 | 20.48   | 6.32                             |
|                                                                                            | 15MHz           |                 | 75            | 0         | QPSK       | 32.97                 | 21.51   | 4.47                             |
|                                                                                            |                 |                 |               |           | 16QAM      | 35.07                 | 21.07   | 7.01                             |
|                                                                                            | 20MHz           |                 | 100           | 0         | QPSK       | 33.94                 | 20.52   | 6.43                             |
|                                                                                            |                 |                 |               |           | 16QAM      | 35.07                 | 20.49   | 7.59                             |
| Duty Cycle Correction Factor (dB) =                                                        |                 |                 | 6.99          |           |            |                       |         |                                  |
| Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor |                 |                 |               |           |            |                       |         |                                  |

### 9.5.5. 5G NR n41 (FCC)

|                   |       |            |            |
|-------------------|-------|------------|------------|
| Test Engineer ID: | 19210 | Test Date: | 2025-03-12 |
|-------------------|-------|------------|------------|

| Band                                                                                       | Bandwidth (MHz) | Frequency (MHz) | RB Allocation | RB OffSet | Modulation | Conducted Power (dBm) |         | Peak-to-Average Power Ratio (dB) |
|--------------------------------------------------------------------------------------------|-----------------|-----------------|---------------|-----------|------------|-----------------------|---------|----------------------------------|
|                                                                                            |                 |                 |               |           |            | Peak                  | Average |                                  |
| 5G NR n41                                                                                  | 10MHz           | 2593.0          | 24            | 0         | BPSK       | 34.59                 | 29.92   | 4.67                             |
|                                                                                            |                 |                 |               |           | 16QAM      | 34.27                 | 27.73   | 6.54                             |
|                                                                                            | 15MHz           |                 | 36            | 0         | BPSK       | 34.79                 | 29.96   | 4.83                             |
|                                                                                            |                 |                 |               |           | 16QAM      | 34.71                 | 27.73   | 6.98                             |
|                                                                                            | 20MHz           |                 | 50            | 0         | BPSK       | 34.43                 | 29.89   | 4.54                             |
|                                                                                            |                 |                 |               |           | 16QAM      | 34.80                 | 27.77   | 7.03                             |
|                                                                                            | 25MHz           |                 | 64            | 0         | BPSK       | 34.68                 | 30      | 4.68                             |
|                                                                                            |                 |                 |               |           | 16QAM      | 35.08                 | 27.83   | 7.25                             |
|                                                                                            | 30MHz           |                 | 75            | 0         | BPSK       | 34.86                 | 30.11   | 4.75                             |
|                                                                                            |                 |                 |               |           | 16QAM      | 35.15                 | 27.87   | 7.28                             |
|                                                                                            | 35MHz           |                 | 90            | 0         | BPSK       | 34.73                 | 30.08   | 4.65                             |
|                                                                                            |                 |                 |               |           | 16QAM      | 34.96                 | 27.92   | 7.04                             |
|                                                                                            | 40MHz           |                 | 100           | 0         | BPSK       | 34.55                 | 30.15   | 4.40                             |
|                                                                                            |                 |                 |               |           | 16QAM      | 34.89                 | 27.9    | 6.99                             |
|                                                                                            | 45MHz           |                 | 108           | 0         | BPSK       | 33.61                 | 28.83   | 4.78                             |
|                                                                                            |                 |                 |               |           | 16QAM      | 34.13                 | 27.12   | 7.01                             |
|                                                                                            | 50MHz           |                 | 128           | 0         | BPSK       | 33.60                 | 29.03   | 4.57                             |
|                                                                                            |                 |                 |               |           | 16QAM      | 34.18                 | 27.25   | 6.93                             |
|                                                                                            | 60MHz           |                 | 162           | 0         | BPSK       | 33.81                 | 28.86   | 4.95                             |
|                                                                                            |                 |                 |               |           | 16QAM      | 33.93                 | 26.93   | 7.00                             |
|                                                                                            | 70MHz           |                 | 180           | 0         | BPSK       | 33.74                 | 29.13   | 4.61                             |
|                                                                                            |                 |                 |               |           | 16QAM      | 34.81                 | 27.57   | 7.24                             |
|                                                                                            | 80MHz           |                 | 216           | 0         | BPSK       | 33.75                 | 29.09   | 4.66                             |
|                                                                                            |                 |                 |               |           | 16QAM      | 34.86                 | 27.6    | 7.26                             |
|                                                                                            | 90MHz           |                 | 243           | 0         | BPSK       | 32.93                 | 28.37   | 4.56                             |
|                                                                                            |                 |                 |               |           | 16QAM      | 34.01                 | 27.17   | 6.84                             |
|                                                                                            | 100MHz          |                 | 270           | 0         | BPSK       | 33.03                 | 28.47   | 4.56                             |
|                                                                                            |                 |                 |               |           | 16QAM      | 34.36                 | 27.19   | 7.17                             |
| Duty Cycle Correction Factor (dB) =                                                        |                 |                 | 0.00          |           |            |                       |         |                                  |
| Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor |                 |                 |               |           |            |                       |         |                                  |

### 9.5.6. ULCA LTE BAND 41 (FCC)

|                   |       |            |            |
|-------------------|-------|------------|------------|
| Test Engineer ID: | 32894 | Test Date: | 2025-05-14 |
|-------------------|-------|------------|------------|

| Band                                                                                       | Bandwidth (MHz) | PCC f (MHz) | SCC1 f (MHz) | Modulation | Conducted Power (dBm) |         | Peak-to-Average Power Ratio (dB) |
|--------------------------------------------------------------------------------------------|-----------------|-------------|--------------|------------|-----------------------|---------|----------------------------------|
|                                                                                            |                 |             |              |            | Peak                  | Average |                                  |
| ULCA LTE Band 41 (FCC)                                                                     | 5MHz / 20MHz    | 2583.8      | 2595.5       | QPSK       | 30.21                 | 22.70   | 7.51                             |
|                                                                                            |                 |             |              | 16QAM      | 30.32                 | 22.26   | 8.06                             |
|                                                                                            | 20MHz / 5MHz    | 2590.5      | 2602.2       | QPSK       | 29.71                 | 23.22   | 6.49                             |
|                                                                                            |                 |             |              | 16QAM      | 30.12                 | 22.76   | 7.36                             |
|                                                                                            | 10MHz / 20MHz   | 2583.6      | 2598.0       | QPSK       | 28.00                 | 22.47   | 5.53                             |
|                                                                                            |                 |             |              | 16QAM      | 28.92                 | 22.47   | 6.45                             |
|                                                                                            | 20MHz / 10MHz   | 2588.1      | 2602.5       | QPSK       | 27.92                 | 22.44   | 5.48                             |
|                                                                                            |                 |             |              | 16QAM      | 28.93                 | 22.48   | 6.45                             |
|                                                                                            | 15MHz / 15MHz   | 2585.5      | 2600.5       | QPSK       | 28.03                 | 22.44   | 5.59                             |
|                                                                                            |                 |             |              | 16QAM      | 29.02                 | 22.29   | 6.73                             |
|                                                                                            | 15MHz / 20MHz   | 2583.3      | 2600.4       | QPSK       | 27.92                 | 22.41   | 5.51                             |
|                                                                                            |                 |             |              | 16QAM      | 28.93                 | 22.48   | 6.45                             |
|                                                                                            | 20MHz / 15MHz   | 2585.6      | 2602.7       | QPSK       | 27.87                 | 22.41   | 5.46                             |
|                                                                                            |                 |             |              | 16QAM      | 28.83                 | 22.46   | 6.37                             |
|                                                                                            | 20MHz / 20MHz   | 2583.1      | 2602.9       | QPSK       | 28.94                 | 23.42   | 5.52                             |
|                                                                                            |                 |             |              | 16QAM      | 29.05                 | 22.47   | 6.58                             |
| Duty Cycle Correction Factor (dB) =                                                        |                 |             | 0.00         |            |                       |         |                                  |
| Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor |                 |             |              |            |                       |         |                                  |

### 9.5.7. LTE BAND 41 (IC)

|                   |       |            |            |
|-------------------|-------|------------|------------|
| Test Engineer ID: | 19210 | Test Date: | 2025-05-08 |
|-------------------|-------|------------|------------|

| Band                                                                                       | Bandwidth (MHz) | Frequency (MHz) | RB Allocation | RB OffSet | Modulation | Conducted Power (dBm) |         | Peak-to-Average Power Ratio (dB) |
|--------------------------------------------------------------------------------------------|-----------------|-----------------|---------------|-----------|------------|-----------------------|---------|----------------------------------|
|                                                                                            |                 |                 |               |           |            | Peak                  | Average |                                  |
| LTE Band 41 (IC)                                                                           | 5MHz            | 2595.0          | 25            | 0         | QPSK       | 33.27                 | 20.99   | 5.29                             |
|                                                                                            |                 |                 |               |           | 16QAM      | 40.22                 | 21.02   | 12.21                            |
|                                                                                            | 10MHz           |                 | 50            | 0         | QPSK       | 33.11                 | 21.31   | 4.81                             |
|                                                                                            |                 |                 |               |           | 16QAM      | 37.94                 | 20.49   | 10.46                            |
|                                                                                            | 15MHz           |                 | 75            | 0         | QPSK       | 33.04                 | 21.20   | 4.85                             |
|                                                                                            |                 |                 |               |           | 16QAM      | 34.55                 | 20.84   | 6.72                             |
|                                                                                            | 20MHz           |                 | 100           | 0         | QPSK       | 37.73                 | 21.27   | 9.47                             |
|                                                                                            |                 |                 |               |           | 16QAM      | 33.65                 | 21.83   | 4.83                             |
| Duty Cycle Correction Factor (dB) =                                                        |                 |                 | 6.99          |           |            |                       |         |                                  |
| Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor |                 |                 |               |           |            |                       |         |                                  |

### 9.5.8. 5G NR n41 (IC)

|                   |       |            |            |
|-------------------|-------|------------|------------|
| Test Engineer ID: | 19210 | Test Date: | 2025-03-13 |
|-------------------|-------|------------|------------|

| Band                                                                                       | Bandwidth (MHz) | Frequency (MHz) | RB Allocation | RB OffSet | Modulation | Conducted Power (dBm) |         | Peak-to-Average Power Ratio (dB) |
|--------------------------------------------------------------------------------------------|-----------------|-----------------|---------------|-----------|------------|-----------------------|---------|----------------------------------|
|                                                                                            |                 |                 |               |           |            | Peak                  | Average |                                  |
| 5G NR n41                                                                                  | 10MHz           | 2595.0          | 24            | 0         | BPSK       | 33.67                 | 29.24   | 4.43                             |
|                                                                                            |                 |                 |               |           | 16QAM      | 34.14                 | 27.67   | 6.47                             |
|                                                                                            | 15MHz           |                 | 36            | 0         | BPSK       | 33.84                 | 29.17   | 4.67                             |
|                                                                                            |                 |                 |               |           | 16QAM      | 34.54                 | 27.67   | 6.87                             |
|                                                                                            | 20MHz           |                 | 50            | 0         | BPSK       | 33.75                 | 29.17   | 4.58                             |
|                                                                                            |                 |                 |               |           | 16QAM      | 34.57                 | 27.65   | 6.92                             |
|                                                                                            | 25MHz           |                 | 64            | 0         | BPSK       | 34.13                 | 29.29   | 4.84                             |
|                                                                                            |                 |                 |               |           | 16QAM      | 34.95                 | 27.72   | 7.23                             |
|                                                                                            | 30MHz           |                 | 75            | 0         | BPSK       | 33.93                 | 29.15   | 4.78                             |
|                                                                                            |                 |                 |               |           | 16QAM      | 34.87                 | 27.49   | 7.38                             |
|                                                                                            | 35MHz           |                 | 90            | 0         | BPSK       | 33.65                 | 29.05   | 4.60                             |
|                                                                                            |                 |                 |               |           | 16QAM      | 34.41                 | 27.57   | 6.84                             |
|                                                                                            | 40MHz           |                 | 100           | 0         | BPSK       | 33.50                 | 29.13   | 4.37                             |
|                                                                                            |                 |                 |               |           | 16QAM      | 34.27                 | 27.49   | 6.78                             |
|                                                                                            | 45MHz           |                 | 108           | 0         | BPSK       | 34.10                 | 29.17   | 4.93                             |
|                                                                                            |                 |                 |               |           | 16QAM      | 34.56                 | 27.60   | 6.96                             |
|                                                                                            | 50MHz           |                 | 128           | 0         | BPSK       | 33.94                 | 29.20   | 4.74                             |
|                                                                                            |                 |                 |               |           | 16QAM      | 34.52                 | 27.62   | 6.90                             |
|                                                                                            | 60MHz           |                 | 162           | 0         | BPSK       | 34.04                 | 28.96   | 5.08                             |
|                                                                                            |                 |                 |               |           | 16QAM      | 34.76                 | 27.33   | 7.43                             |
|                                                                                            | 70MHz           |                 | 180           | 0         | BPSK       | 33.68                 | 29.15   | 4.53                             |
|                                                                                            |                 |                 |               |           | 16QAM      | 34.78                 | 27.52   | 7.26                             |
|                                                                                            | 80MHz           |                 | 216           | 0         | BPSK       | 33.72                 | 29.11   | 4.61                             |
|                                                                                            |                 |                 |               |           | 16QAM      | 34.67                 | 27.54   | 7.13                             |
|                                                                                            | 90MHz           |                 | 243           | 0         | BPSK       | 32.95                 | 28.39   | 4.56                             |
|                                                                                            |                 |                 |               |           | 16QAM      | 34.06                 | 27.19   | 6.87                             |
|                                                                                            | 100MHz          |                 | 270           | 0         | BPSK       | 32.93                 | 28.41   | 4.52                             |
|                                                                                            |                 |                 |               |           | 16QAM      | 34.19                 | 27.09   | 7.10                             |
| Duty Cycle Correction Factor (dB) =                                                        |                 |                 | 0.00          |           |            |                       |         |                                  |
| Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor |                 |                 |               |           |            |                       |         |                                  |

### 9.5.9. ULCA LTE BAND 41 (IC)

|                   |       |            |            |
|-------------------|-------|------------|------------|
| Test Engineer ID: | 32894 | Test Date: | 2025-05-14 |
|-------------------|-------|------------|------------|

| Band                                                                                       | Bandwidth (MHz) | PCC f (MHz) | SCC1 f (MHz) | Modulation | Conducted Power (dBm) |         | Peak-to-Average Power Ratio (dB) |
|--------------------------------------------------------------------------------------------|-----------------|-------------|--------------|------------|-----------------------|---------|----------------------------------|
|                                                                                            |                 |             |              |            | Peak                  | Average |                                  |
| ULCA LTE Band 41 (IC)                                                                      | 5MHz / 20MHz    | 2585.8      | 2597.5       | QPSK       | 29.89                 | 22.65   | 7.24                             |
|                                                                                            |                 |             |              | 16QAM      | 30.35                 | 22.17   | 8.18                             |
|                                                                                            | 20MHz / 5MHz    | 2592.5      | 2604.2       | QPSK       | 29.80                 | 23.21   | 6.59                             |
|                                                                                            |                 |             |              | 16QAM      | 29.96                 | 22.75   | 7.21                             |
|                                                                                            | 10MHz / 20MHz   | 2585.6      | 2600.0       | QPSK       | 28.00                 | 22.45   | 5.55                             |
|                                                                                            |                 |             |              | 16QAM      | 29.02                 | 22.43   | 6.59                             |
|                                                                                            | 20MHz / 10MHz   | 2590.1      | 2604.5       | QPSK       | 27.87                 | 22.40   | 5.47                             |
|                                                                                            |                 |             |              | 16QAM      | 28.96                 | 22.44   | 6.52                             |
|                                                                                            | 15MHz / 15MHz   | 2587.5      | 2602.5       | QPSK       | 27.90                 | 22.40   | 5.50                             |
|                                                                                            |                 |             |              | 16QAM      | 29.02                 | 22.43   | 6.59                             |
|                                                                                            | 15MHz / 20MHz   | 2585.3      | 2602.4       | QPSK       | 27.92                 | 22.41   | 5.51                             |
|                                                                                            |                 |             |              | 16QAM      | 28.84                 | 22.44   | 6.40                             |
|                                                                                            | 20MHz / 15MHz   | 2587.6      | 2604.7       | QPSK       | 27.88                 | 22.39   | 5.49                             |
|                                                                                            |                 |             |              | 16QAM      | 28.90                 | 22.43   | 6.47                             |
|                                                                                            | 20MHz / 20MHz   | 2585.1      | 2604.9       | QPSK       | 28.92                 | 23.37   | 5.55                             |
|                                                                                            |                 |             |              | 16QAM      | 28.99                 | 22.44   | 6.55                             |
| Duty Cycle Correction Factor (dB) =                                                        |                 |             | 0.00         |            |                       |         |                                  |
| Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor |                 |             |              |            |                       |         |                                  |

f

## 10. RADIATED TEST RESULTS

### LIMITS

FCC: §27.53 (m)

At least  $55 + 10 \log (P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section.

ISED: RSS199§5.6

For all equipment, the TRP or total conducted power (sum of conducted power across all antenna connectors), where applicable, of the unwanted emissions outside the frequency block or frequency block group shall not exceed the limits shown in the tables below.

| Table 5: Unwanted emission limits for subscriber equipment other than fixed subscriber equipment |                          |
|--------------------------------------------------------------------------------------------------|--------------------------|
| Offset from the edge of the frequency block or frequency block group (MHz)                       | Unwanted emission limits |
| 0-1                                                                                              | -10 dBm/(2% of OB*)      |
| 1-5                                                                                              | -10 dBm/MHz              |
| 5-X**                                                                                            | -13 dBm/MHz              |
| ≥ X                                                                                              | -25 dBm/MHz              |

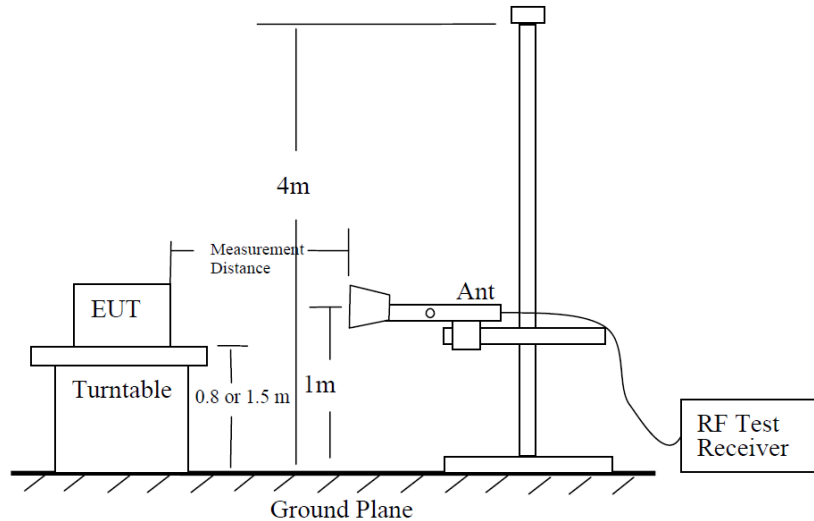
\*OB is the occupied bandwidth

\*\* X is 6 MHz or the equipment occupied bandwidth, whichever is greater.

In addition to complying with the limits in table 5, subscriber equipment other than fixed subscriber equipment shall not exceed -13 dBm/MHz on all frequencies between 2490.5 MHz and 2496 MHz, and -25 dBm/MHz at or below 2490.5 MHz

### **Radiated measurement using the Field Strength Method**

Using the test configuration shown in Figure 6 below, the radiated emissions is measured directly from the EUT and convert the measured field strength or received power to ERP or EIRP, as required, for comparison to the applicable limits. As stated in 5.5.1 of ANSI C63.26-2015, the field strength measurement method using a test site validated to the requirements of ANSI C63.4 is an alternative to the substitution measurement.



**Figure 6—Test site-up for radiated ERP and/or EIRP measurements**

### **Radiated Power Measurement Calculation According to ANSI C63.26-2015**

- a)  $E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dB}\mu\text{V)} + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$ .
- b)  $E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$ .
- c)  $E \text{ (dB}\mu\text{V/m)} = \text{EIRP (dBm)} - 20\log(D) + 104.8$ ; where D is the measurement distance (in the far field region) in m.
- d)  $\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20\log(D) - 104.8$ ; where D is the measurement distance (in the far field region) in m.

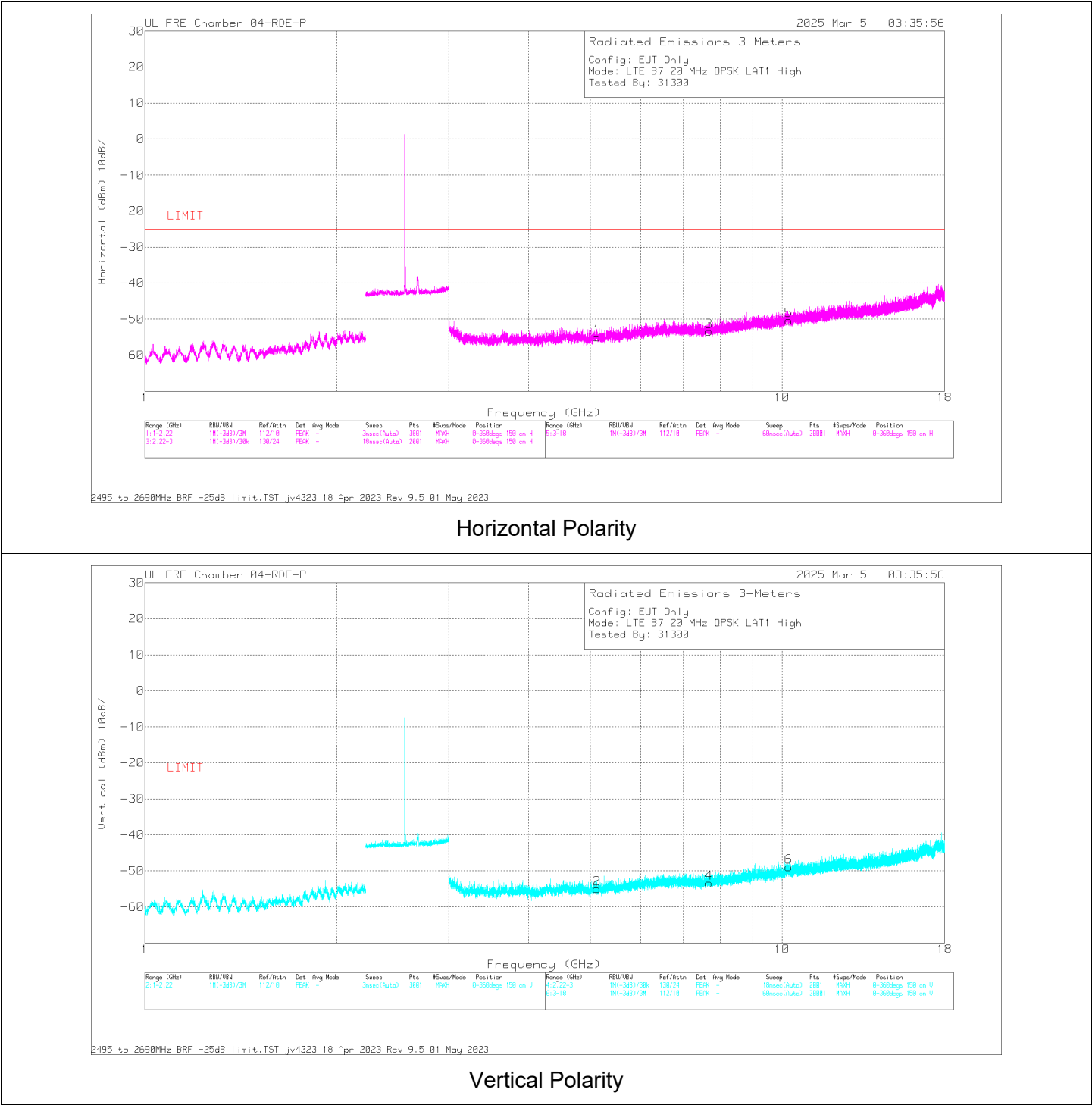
So, from d)

The measuring distance is usually at 3m, then  $20 \cdot \log(3) = 9.5424$

Then,  $\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 9.5424 - 104.8 = E \text{ (dB}\mu\text{V/m)} - 95.2576$

Note: Confidence check of each chamber is performed daily to see if any degradation from expected/normal reading reference data. Ambient check of each chamber is performed monthly.

Example Plot





**Trace Markers**

| Frequency<br>(GHz)  | Meter<br>Reading<br>(dBuV) | Det | 200897 ACF<br>(dB/m) | EIRP CF | Gain/Loss<br>(dB) | Corrected<br>Reading<br>(dBm) | LIMIT | Margin<br>(dB) | Polarity |
|---------------------|----------------------------|-----|----------------------|---------|-------------------|-------------------------------|-------|----------------|----------|
| Mid Channel 3675MHz |                            |     |                      |         |                   |                               |       |                |          |
| 5.12100             | 55.25                      | Pk  | 34                   | -95.2   | -49.08            | -55.03                        | -25   | -30.03         | H        |
| 5.12100             | 55.27                      | Pk  | 34                   | -95.2   | -49.08            | -55.01                        | -25   | -30.01         | V        |
| 7.68050             | 53.45                      | Pk  | 35.8                 | -95.2   | -47.47            | -53.42                        | -25   | -28.42         | H        |
| 7.68050             | 53.44                      | Pk  | 35.8                 | -95.2   | -47.47            | -53.43                        | -25   | -28.43         | V        |
| 10.24150            | 54.20                      | Pk  | 37.4                 | -95.2   | -46.73            | -50.33                        | -25   | -25.33         | H        |
| 10.24150            | 55.58                      | Pk  | 37.4                 | -95.2   | -46.73            | -48.95                        | -25   | -23.95         | V        |

## **10.1. FIELD STRENGTH OF SPURIOUS RADIATION, ABOVE 1GHz**

### **TEST PROCEDURE**

KDB 971168 D01 /D02

All tests above 1GHz were done with a Resolution Bandwidth of 1MHz, and a Video Bandwidth of 3MHz

### **RESULTS**

## 10.1.1. LTE BAND 7

### LTE BAND 7 (QPSK 20.0MHZ BANDWIDTH, ANT 3)

|                |                   |
|----------------|-------------------|
| Date:          | 2025-03-05        |
| Test Engineer: | 31300             |
| Configuration: | EUT Only          |
| Mode:          | LTE B7 20MHz QPSK |
| Chamber #:     | 04-RDE-P          |

| Frequency (MHz)              | Meter Reading (dBuV) | Det | 200897 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------------|-------------|----------|
| <b>Low Channel, 2510MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.019500                     | 55.75                | Pk  | 33.9              | -95.2   | -49.26         | -54.81                  | -25         | -29.81      | H        |
| 5.021000                     | 55.6                 | Pk  | 33.9              | -95.2   | -49.24         | -54.94                  | -25         | -29.94      | V        |
| 7.530000                     | 54.96                | Pk  | 35.7              | -95.2   | -47.6          | -52.14                  | -25         | -27.14      | H        |
| 7.531000                     | 53.79                | Pk  | 35.7              | -95.2   | -47.59         | -53.0                   | -25         | -28.30      | V        |
| 10.040500                    | 56.13                | Pk  | 37.3              | -95.2   | -48.1          | -49.87                  | -25         | -24.87      | H        |
| 10.040500                    | 55.07                | Pk  | 37.3              | -95.2   | -48.1          | -50.93                  | -25         | -25.93      | V        |
| <b>Mid Channel, 2535MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.072000                     | 57.54                | Pk  | 33.9              | -95.2   | -49.35         | -53.11                  | -25         | -28.11      | H        |
| 5.071000                     | 55.7                 | Pk  | 33.9              | -95.2   | -49.35         | -54.95                  | -25         | -29.95      | V        |
| 7.605500                     | 53.99                | Pk  | 35.8              | -95.2   | -47.59         | -53.00                  | -25         | -28.00      | H        |
| 7.605500                     | 52.93                | Pk  | 35.8              | -95.2   | -47.59         | -54.06                  | -25         | -29.06      | V        |
| 10.140000                    | 54.85                | Pk  | 37.3              | -95.2   | -47.53         | -50.58                  | -25         | -25.58      | H        |
| 10.140000                    | 54.65                | Pk  | 37.3              | -95.2   | -47.53         | -50.78                  | -25         | -25.78      | V        |
| <b>High Channel, 2560MHz</b> |                      |     |                   |         |                |                         |             |             |          |
| 5.121000                     | 55.25                | Pk  | 34.0              | -95.2   | -49.08         | -55.03                  | -25         | -30.03      | H        |
| 5.121000                     | 55.27                | Pk  | 34.0              | -95.2   | -49.08         | -55.01                  | -25         | -30.01      | V        |
| 7.680500                     | 53.45                | Pk  | 35.8              | -95.2   | -47.47         | -53.42                  | -25         | -28.42      | H        |
| 7.680500                     | 53.44                | Pk  | 35.8              | -95.2   | -47.47         | -53.43                  | -25         | -28.43      | V        |
| 10.241500                    | 54.2                 | Pk  | 37.4              | -95.2   | -46.73         | -50.33                  | -25         | -25.33      | H        |
| 10.241500                    | 55.58                | Pk  | 37.4              | -95.2   | -46.73         | -48.95                  | -25         | -23.95      | V        |

**LTE BAND 7 (QPSK 20.0MHZ BANDWIDTH, ANT 4)**

|                |                   |
|----------------|-------------------|
| Date:          | 2025-06-18        |
| Test Engineer: | 32703             |
| Configuration: | EUT Only          |
| Mode:          | LTE B7 20MHz QPSK |
| Chamber #:     | 03-RDE-A          |

| Frequency (MHz)              | Meter Reading (dBuV) | Det | 200897 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------------|-------------|----------|
| <b>Low Channel, 2510MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.000500                     | 54.65                | Pk  | 33.9              | -95.2   | -49.25         | -55.90                  | -25         | -30.90      | H        |
| 5.000500                     | 54.69                | Pk  | 33.9              | -95.2   | -49.25         | -55.86                  | -25         | -30.86      | V        |
| 7.500500                     | 54.03                | Pk  | 35.7              | -95.2   | -47.54         | -53.01                  | -25         | -28.01      | H        |
| 7.500500                     | 52.52                | Pk  | 35.7              | -95.2   | -47.54         | -54.52                  | -25         | -29.52      | V        |
| 10.000000                    | 54.11                | Pk  | 37.2              | -95.2   | -47.47         | -51.36                  | -25         | -26.36      | H        |
| 10.000000                    | 55.08                | Pk  | 37.2              | -95.2   | -47.47         | -50.39                  | -25         | -25.39      | V        |
| <b>Mid Channel, 2535MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.050500                     | 56.94                | Pk  | 33.9              | -95.2   | -49.25         | -53.61                  | -25         | -28.61      | H        |
| 5.050500                     | 53.93                | Pk  | 33.9              | -95.2   | -49.25         | -56.62                  | -25         | -31.62      | V        |
| 7.576000                     | 54.96                | Pk  | 35.7              | -95.2   | -47.66         | -52.2                   | -25         | -27.20      | H        |
| 7.576000                     | 53.14                | Pk  | 35.7              | -95.2   | -47.66         | -54.02                  | -25         | -29.02      | V        |
| 10.101000                    | 55.29                | Pk  | 37.3              | -95.2   | -47.95         | -50.56                  | -25         | -25.56      | H        |
| 10.101000                    | 55.27                | Pk  | 37.3              | -95.2   | -47.95         | -50.58                  | -25         | -25.58      | V        |
| <b>High Channel, 2560MHz</b> |                      |     |                   |         |                |                         |             |             |          |
| 5.100500                     | 56.02                | Pk  | 34.0              | -95.2   | -49.18         | -54.36                  | -25         | -29.36      | H        |
| 5.100500                     | 54.15                | Pk  | 34.0              | -95.2   | -49.18         | -56.23                  | -25         | -31.23      | V        |
| 7.650500                     | 53.48                | Pk  | 35.8              | -95.2   | -47.26         | -53.18                  | -25         | -28.18      | H        |
| 7.650500                     | 53.77                | Pk  | 35.8              | -95.2   | -47.26         | -52.89                  | -25         | -27.89      | V        |
| 10.201000                    | 55                   | Pk  | 37.4              | -95.2   | -46.54         | -49.34                  | -25         | -24.34      | H        |
| 10.201000                    | 54.53                | Pk  | 37.4              | -95.2   | -46.54         | -49.81                  | -25         | -24.81      | V        |

**LTE BAND 7 (QPSK 20.0MHZ BANDWIDTH, ANT 2)**

|                |                   |
|----------------|-------------------|
| Date:          | 2025-03-10        |
| Test Engineer: | 31300             |
| Configuration: | EUT Only          |
| Mode:          | LTE B7 20MHz QPSK |
| Chamber #:     | 04-RDE-P          |

| Frequency (MHz)              | Meter Reading (dBuV) | Det | 200897 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------------|-------------|----------|
| <b>Low Channel, 2510MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.020000                     | 56.38                | Pk  | 33.9              | -95.2   | -49.26         | -54.18                  | -25         | -29.18      | H        |
| 5.020000                     | 55.06                | Pk  | 33.9              | -95.2   | -49.26         | -55.50                  | -25         | -30.50      | V        |
| 7.531000                     | 54.89                | Pk  | 35.7              | -95.2   | -47.59         | -52.20                  | -25         | -27.20      | H        |
| 7.531000                     | 55.22                | Pk  | 35.7              | -95.2   | -47.59         | -51.87                  | -25         | -26.87      | V        |
| 10.041500                    | 58.44                | Pk  | 37.3              | -95.2   | -48.1          | -47.56                  | -25         | -22.56      | H        |
| 10.041500                    | 57.36                | Pk  | 37.3              | -95.2   | -48.1          | -48.64                  | -25         | -23.64      | V        |
| <b>Mid Channel, 2535MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.070500                     | 56.55                | Pk  | 33.9              | -95.2   | -49.35         | -54.10                  | -25         | -29.10      | H        |
| 5.070500                     | 57.52                | Pk  | 33.9              | -95.2   | -49.35         | -53.13                  | -25         | -28.13      | V        |
| 7.605000                     | 53.94                | Pk  | 35.8              | -95.2   | -47.59         | -53.05                  | -25         | -28.05      | H        |
| 7.605000                     | 53.42                | Pk  | 35.8              | -95.2   | -47.59         | -53.57                  | -25         | -28.57      | V        |
| 10.140500                    | 55.39                | Pk  | 37.3              | -95.2   | -47.53         | -50.04                  | -25         | -25.04      | H        |
| 10.140500                    | 55.08                | Pk  | 37.3              | -95.2   | -47.53         | -50.35                  | -25         | -25.35      | V        |
| <b>High Channel, 2560MHz</b> |                      |     |                   |         |                |                         |             |             |          |
| 5.121000                     | 55.5                 | Pk  | 34.0              | -95.2   | -49.08         | -54.78                  | -25         | -29.78      | H        |
| 5.121000                     | 56.51                | Pk  | 34.0              | -95.2   | -49.08         | -53.77                  | -25         | -28.77      | V        |
| 7.680500                     | 53.4                 | Pk  | 35.8              | -95.2   | -47.47         | -53.47                  | -25         | -28.47      | H        |
| 7.680500                     | 53.97                | Pk  | 35.8              | -95.2   | -47.47         | -52.90                  | -25         | -27.90      | V        |
| 10.240500                    | 56.14                | Pk  | 37.4              | -95.2   | -46.73         | -48.39                  | -25         | -23.39      | H        |
| 10.240500                    | 56.04                | Pk  | 37.4              | -95.2   | -46.73         | -48.49                  | -25         | -23.49      | V        |

**LTE BAND 7 (QPSK 20.0MHZ BANDWIDTH, ANT 1)**

|                |                   |
|----------------|-------------------|
| Date:          | 2025-03-10        |
| Test Engineer: | 31300             |
| Configuration: | EUT Only          |
| Mode:          | LTE B7 20MHz QPSK |
| Chamber #:     | 04-RDE-P          |

| Frequency (MHz)              | Meter Reading (dBuV) | Det | 200897 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------------|-------------|----------|
| <b>Low Channel, 2510MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.019000                     | 56.14                | Pk  | 33.9              | -95.2   | -49.26         | -54.42                  | -25         | -29.42      | H        |
| 5.019500                     | 57.16                | Pk  | 33.9              | -95.2   | -49.26         | -53.4.0                 | -25         | -28.4.0     | V        |
| 7.531000                     | 53.66                | Pk  | 35.7              | -95.2   | -47.59         | -53.43                  | -25         | -28.43      | H        |
| 7.531000                     | 53.56                | Pk  | 35.7              | -95.2   | -47.59         | -53.53                  | -25         | -28.53      | V        |
| 10.041500                    | 56.78                | Pk  | 37.3              | -95.2   | -48.1          | -49.22                  | -25         | -24.22      | H        |
| 10.040500                    | 55.17                | Pk  | 37.3              | -95.2   | -48.1          | -50.83                  | -25         | -25.83      | V        |
| <b>Mid Channel, 2535MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.071000                     | 56.91                | Pk  | 33.9              | -95.2   | -49.35         | -53.74                  | -25         | -28.74      | H        |
| 5.069000                     | 56.58                | Pk  | 33.9              | -95.2   | -49.33         | -54.05                  | -25         | -29.05      | V        |
| 7.605500                     | 54.23                | Pk  | 35.8              | -95.2   | -47.59         | -52.76                  | -25         | -27.76      | H        |
| 7.605500                     | 55.65                | Pk  | 35.8              | -95.2   | -47.59         | -51.34                  | -25         | -26.34      | V        |
| 10.140500                    | 57.2                 | Pk  | 37.3              | -95.2   | -47.53         | -48.23                  | -25         | -23.23      | H        |
| 10.140500                    | 54.64                | Pk  | 37.3              | -95.2   | -47.53         | -50.79                  | -25         | -25.79      | V        |
| <b>High Channel, 2560MHz</b> |                      |     |                   |         |                |                         |             |             |          |
| 5.121500                     | 54.73                | Pk  | 34.0              | -95.2   | -49.07         | -55.54                  | -25         | -30.54      | H        |
| 5.121500                     | 55.54                | Pk  | 34.0              | -95.2   | -49.07         | -54.73                  | -25         | -29.73      | V        |
| 7.681000                     | 54.88                | Pk  | 35.8              | -95.2   | -47.48         | -52.0                   | -25         | -27.0       | H        |
| 7.681000                     | 54.13                | Pk  | 35.8              | -95.2   | -47.48         | -52.75                  | -25         | -27.75      | V        |
| 10.240000                    | 54.78                | Pk  | 37.4              | -95.2   | -46.72         | -49.74                  | -25         | -24.74      | H        |
| 10.240500                    | 54.71                | Pk  | 37.4              | -95.2   | -46.73         | -49.82                  | -25         | -24.82      | V        |

## 10.1.2. 5G NR n7

### 5G NR n7 (BPSK 50.0MHZ BANDWIDTH, ANT 3)

|                |                     |
|----------------|---------------------|
| Date:          | 2025-06-18          |
| Test Engineer: | 32703               |
| Configuration: | EUT Only            |
| Mode:          | 5G NR n7 50MHz BPSK |
| Chamber #:     | 03-RDE-A            |

| Frequency (MHz)       | Meter Reading (dBuV) | Det | 226673 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) | Polarity |
|-----------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------------|-------------|----------|
| Low Channel, 2525MHz  |                      |     |                   |         |                |                         |             |             |          |
| 4.953000              | 57.58                | Pk  | 34                | -95.2   | -47.60         | -51.22                  | -25         | -26.22      | H        |
| 4.959000              | 56.76                | Pk  | 34                | -95.2   | -47.60         | -52.04                  | -25         | -27.04      | V        |
| 7.531500              | 55.42                | Pk  | 35.9              | -95.2   | -45.40         | -49.28                  | -25         | -24.28      | H        |
| 7.502000              | 57.12                | Pk  | 35.8              | -95.2   | -45.90         | -48.18                  | -25         | -23.18      | V        |
| 10.022000             | 55.60                | Pk  | 37.2              | -95.2   | -46.00         | -48.40                  | -25         | -23.40      | H        |
| 9.966500              | 54.90                | Pk  | 37.1              | -95.2   | -45.40         | -48.6                   | -25         | -23.60      | V        |
| Mid Channel, 2535MHz  |                      |     |                   |         |                |                         |             |             |          |
| 5.021000              | 57.17                | Pk  | 34.00             | -95.2   | -48.00         | -52.03                  | -25         | -27.03      | H        |
| 4.994500              | 56.17                | Pk  | 34.00             | -95.2   | -47.75         | -52.78                  | -25         | -27.78      | V        |
| 7.532500              | 56.41                | Pk  | 35.90             | -95.2   | -45.40         | -48.29                  | -25         | -23.29      | H        |
| 7.532000              | 56.26                | Pk  | 35.90             | -95.2   | -45.40         | -48.44                  | -25         | -23.44      | V        |
| 10.001500             | 54.96                | Pk  | 37.20             | -95.2   | -45.60         | -48.64                  | -25         | -23.64      | H        |
| 10.027500             | 55.85                | Pk  | 37.20             | -95.2   | -45.90         | -48.05                  | -25         | -23.05      | V        |
| High Channel, 2545MHz |                      |     |                   |         |                |                         |             |             |          |
| 5.042000              | 56.51                | Pk  | 34.00             | -95.2   | -47.80         | -52.49                  | -25         | -27.49      | H        |
| 5.004000              | 56.67                | Pk  | 34.00             | -95.2   | -47.70         | -52.23                  | -25         | -27.23      | V        |
| 7.562500              | 56.71                | Pk  | 35.90             | -95.2   | -45.80         | -48.39                  | -25         | -23.39      | H        |
| 7.562000              | 59.18                | Pk  | 35.90             | -95.2   | -45.80         | -45.92                  | -25         | -20.92      | V        |
| 10.114500             | 55.49                | Pk  | 37.30             | -95.2   | -45.70         | -48.11                  | -25         | -23.11      | H        |
| 10.116000             | 56.45                | Pk  | 37.30             | -95.2   | -45.80         | -47.25                  | -25         | -22.25      | V        |

**5G NR n7 (BPSK 50.0MHZ BANDWIDTH, ANT 4)**

|                |                     |
|----------------|---------------------|
| Date:          | 2025-06-18          |
| Test Engineer: | 32703               |
| Configuration: | EUT ONLY            |
| Mode:          | 5G NR n7 50MHz BPSK |
| Chamber #:     | 03-RDE-A            |

| Frequency (MHz)              | Meter Reading (dBuV) | Det | 200897 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------------|-------------|----------|
| <b>Low Channel, 2525MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 4.952000                     | 57.21                | Pk  | 34.00             | -95.2   | -47.70         | -51.69                  | -25         | -26.69      | H        |
| 5.027000                     | 56.15                | Pk  | 34.00             | -95.2   | -47.80         | -52.85                  | -25         | -27.85      | V        |
| 7.467500                     | 54.74                | Pk  | 35.80             | -95.2   | -45.95         | -50.61                  | -25         | -25.61      | H        |
| 7.457500                     | 55.30                | Pk  | 35.80             | -95.2   | -45.80         | -49.90                  | -25         | -24.90      | V        |
| 10.036500                    | 55.75                | Pk  | 37.20             | -95.2   | -46.00         | -48.25                  | -25         | -23.25      | H        |
| 9.994000                     | 55.88                | Pk  | 37.20             | -95.2   | -45.70         | -47.82                  | -25         | -22.82      | V        |
| <b>Mid Channel, 2535MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.066000                     | 56.02                | Pk  | 34.10             | -95.2   | -48.00         | -53.08                  | -25         | -28.08      | H        |
| 5.043000                     | 55.88                | Pk  | 34.00             | -95.2   | -47.80         | -53.12                  | -25         | -28.12      | V        |
| 7.493000                     | 55.34                | Pk  | 35.80             | -95.2   | -46.00         | -50.06                  | -25         | -25.06      | H        |
| 7.524500                     | 54.24                | Pk  | 35.80             | -95.2   | -45.50         | -50.66                  | -25         | -25.66      | V        |
| 10.066500                    | 55.46                | Pk  | 37.20             | -95.2   | -45.90         | -48.44                  | -25         | -23.44      | H        |
| 10.025500                    | 56.60                | Pk  | 37.20             | -95.2   | -45.90         | -47.30                  | -25         | -22.30      | V        |
| <b>High Channel, 2545MHz</b> |                      |     |                   |         |                |                         |             |             |          |
| 5.080500                     | 56.19                | Pk  | 34.1              | -95.2   | -47.9          | -52.81                  | -25         | -27.81      | H        |
| 5.013000                     | 56.23                | Pk  | 34                | -95.2   | -47.9          | -52.87                  | -25         | -27.87      | V        |
| 7.592000                     | 54.98                | Pk  | 35.9              | -95.2   | -45.8          | -50.12                  | -25         | -25.12      | H        |
| 7.512000                     | 55.36                | Pk  | 35.8              | -95.2   | -45.9          | -49.94                  | -25         | -24.94      | V        |
| 10.111500                    | 55.31                | Pk  | 37.3              | -95.2   | -45.7          | -48.29                  | -25         | -23.29      | H        |
| 10.056500                    | 55.72                | Pk  | 37.2              | -95.2   | -45.9          | -48.18                  | -25         | -23.18      | V        |



**5G NR n7 (BPSK 50.0MHZ BANDWIDTH, ANT 2)**

|                |                     |
|----------------|---------------------|
| Date:          | 2025-06-18          |
| Test Engineer: | 32703               |
| Configuration: | EUT ONLY            |
| Mode:          | 5G NR n7 50MHz BPSK |
| Chamber #:     | 03-RDE-A            |

| Frequency (MHz)              | Meter Reading (dBuV) | Det | 200897 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------------|-------------|----------|
| <b>Low Channel, 2525MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 4.956500                     | 56.23                | Pk  | 34                | -95.2   | -47.5          | -52.47                  | -25         | -27.47      | H        |
| 5.028500                     | 55.82                | Pk  | 34                | -95.2   | -47.8          | -53.18                  | -25         | -28.18      | V        |
| 7.502000                     | 54.86                | Pk  | 35.8              | -95.2   | -45.9          | -50.44                  | -25         | -25.44      | H        |
| 7.501500                     | 55.25                | Pk  | 35.8              | -95.2   | -45.95         | -50.1                   | -25         | -25.10      | V        |
| 9.995500                     | 55.14                | Pk  | 37.2              | -95.2   | -45.7          | -48.56                  | -25         | -23.56      | H        |
| 9.986500                     | 55.77                | Pk  | 37.2              | -95.2   | -45.45         | -47.68                  | -25         | -22.68      | V        |
| <b>Mid Channel, 2535MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 4.974500                     | 56.08                | Pk  | 34                | -95.2   | -47.65         | -52.77                  | -25         | -27.77      | H        |
| 5.018000                     | 56.76                | Pk  | 34                | -95.2   | -48            | -52.44                  | -25         | -27.44      | V        |
| 7.503500                     | 55.19                | Pk  | 35.8              | -95.2   | -45.9          | -50.11                  | -25         | -25.11      | H        |
| 7.532000                     | 54.86                | Pk  | 35.9              | -95.2   | -45.4          | -49.84                  | -25         | -24.84      | V        |
| 10.027500                    | 56.03                | Pk  | 37.2              | -95.2   | -45.9          | -47.87                  | -25         | -22.87      | H        |
| 10.034500                    | 55.66                | Pk  | 37.2              | -95.2   | -46            | -48.34                  | -25         | -23.34      | V        |
| <b>High Channel, 2545MHz</b> |                      |     |                   |         |                |                         |             |             |          |
| 5.082500                     | 56.08                | Pk  | 34.1              | -95.2   | -47.95         | -52.97                  | -25         | -27.97      | H        |
| 5.085000                     | 56.5                 | Pk  | 34.1              | -95.2   | -47.9          | -52.5                   | -25         | -27.50      | V        |
| 7.561500                     | 55.02                | Pk  | 35.9              | -95.2   | -45.8          | -50.08                  | -25         | -25.08      | H        |
| 7.561500                     | 55.48                | Pk  | 35.9              | -95.2   | -45.8          | -49.62                  | -25         | -24.62      | V        |
| 10.129500                    | 55.19                | Pk  | 37.3              | -95.2   | -45.5          | -48.21                  | -25         | -23.21      | H        |
| 10.056000                    | 55.8                 | Pk  | 37.2              | -95.2   | -45.9          | -48.1                   | -25         | -23.10      | V        |

**5G NR n7 (BPSK 50.0MHZ BANDWIDTH, ANT 1)**

|                |                     |
|----------------|---------------------|
| Date:          | 2025-06-18          |
| Test Engineer: | 32703               |
| Configuration: | EUT Only            |
| Mode:          | 5G NR n7 50MHz BPSK |
| Chamber #:     | 03-RDE-A            |

| Frequency (MHz)              | Meter Reading (dBuV) | Det | 200897 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------------|-------------|----------|
| <b>Low Channel, 2525MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 4.954500                     | 56.21                | Pk  | 34                | -95.2   | -47.6          | -52.59                  | -25         | -27.59      | H        |
| 4.965500                     | 55.93                | Pk  | 34                | -95.2   | -47.65         | -52.92                  | -25         | -27.92      | V        |
| 7.525000                     | 54.63                | Pk  | 35.8              | -95.2   | -45.5          | -50.27                  | -25         | -25.27      | H        |
| 7.524000                     | 54.47                | Pk  | 35.8              | -95.2   | -45.5          | -50.43                  | -25         | -25.43      | V        |
| 9.964500                     | 55.87                | Pk  | 37.1              | -95.2   | -45.4          | -47.63                  | -25         | -22.63      | H        |
| 10.044500                    | 55.39                | Pk  | 37.2              | -95.2   | -45.9          | -48.51                  | -25         | -23.51      | V        |
| <b>Mid Channel, 2535MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.071000                     | 56.91                | Pk  | 33.9              | -95.2   | -49.35         | -53.74                  | -25         | -28.74      | H        |
| 5.069000                     | 56.58                | Pk  | 33.9              | -95.2   | -49.33         | -54.05                  | -25         | -29.05      | V        |
| 7.605500                     | 54.23                | Pk  | 35.8              | -95.2   | -47.59         | -52.76                  | -25         | -27.76      | H        |
| 7.605500                     | 55.65                | Pk  | 35.8              | -95.2   | -47.59         | -51.34                  | -25         | -26.34      | V        |
| 10.140500                    | 57.20                | Pk  | 37.3              | -95.2   | -47.53         | -48.23                  | -25         | -23.23      | H        |
| 10.140500                    | 54.64                | Pk  | 37.3              | -95.2   | -47.53         | -50.79                  | -25         | -25.79      | V        |
| <b>High Channel, 2545MHz</b> |                      |     |                   |         |                |                         |             |             |          |
| 5.121500                     | 54.73                | Pk  | 34.0              | -95.2   | -49.07         | -55.54                  | -25         | -30.54      | H        |
| 5.121500                     | 55.54                | Pk  | 34.0              | -95.2   | -49.07         | -54.73                  | -25         | -29.73      | V        |
| 7.681000                     | 54.88                | Pk  | 35.8              | -95.2   | -47.48         | -52.00                  | -25         | -27.00      | H        |
| 7.681000                     | 54.13                | Pk  | 35.8              | -95.2   | -47.48         | -52.75                  | -25         | -27.75      | V        |
| 10.240000                    | 54.78                | Pk  | 37.4              | -95.2   | -46.72         | -49.74                  | -25         | -24.74      | H        |
| 10.240500                    | 54.71                | Pk  | 37.4              | -95.2   | -46.73         | -49.82                  | -25         | -24.82      | V        |

### 10.1.3. ULCA LTE BAND 7

#### ULCA LTE BAND 7 (QPSK 20.0MHZ + 20.0MHZ BANDWIDTH, ANT 3)

|                |                       |
|----------------|-----------------------|
| Date:          | 2025-03-13            |
| Test Engineer: | 31300                 |
| Configuration: | EUT Only              |
| Mode:          | ULCA B7 20+20MHz QPSK |
| Chamber #:     | 04-RDE-P              |

| Frequency (MHz)                         | Meter Reading (dBuV) | Det | 80403 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) | Polarity |
|-----------------------------------------|----------------------|-----|------------------|---------|----------------|-------------------------|-------------|-------------|----------|
| <b>Low Channel, 2510MHz+2529.8MHz</b>   |                      |     |                  |         |                |                         |             |             |          |
| 5.037000                                | 54.90                | Pk  | 33.9             | -95.2   | -49.25         | -55.65                  | -25         | -30.65      | H        |
| 5.037000                                | 55.72                | Pk  | 33.9             | -95.2   | -49.25         | -54.83                  | -25         | -29.83      | V        |
| 7.554000                                | 53.13                | Pk  | 35.7             | -95.2   | -47.65         | -54.02                  | -25         | -29.02      | H        |
| 7.554000                                | 53.58                | Pk  | 35.7             | -95.2   | -47.65         | -53.57                  | -25         | -28.57      | V        |
| 10.072500                               | 55.49                | Pk  | 37.3             | -95.2   | -48.05         | -50.46                  | -25         | -25.46      | H        |
| 10.072500                               | 58.63                | Pk  | 37.3             | -95.2   | -48.05         | -47.32                  | -25         | -22.32      | V        |
| <b>Mid Channel, 2525.1MHz+2544.9MHz</b> |                      |     |                  |         |                |                         |             |             |          |
| 5.066000                                | 55.19                | Pk  | 33.9             | -95.2   | -49.31         | -55.42                  | -25         | -30.42      | H        |
| 5.066000                                | 55.20                | Pk  | 33.9             | -95.2   | -49.31         | -55.41                  | -25         | -30.41      | V        |
| 7.599000                                | 55.36                | Pk  | 35.8             | -95.2   | -47.58         | -51.62                  | -25         | -26.62      | H        |
| 7.599000                                | 54.07                | Pk  | 35.8             | -95.2   | -47.58         | -52.91                  | -25         | -27.91      | V        |
| 10.132000                               | 55.78                | Pk  | 37.3             | -95.2   | -47.59         | -49.71                  | -25         | -24.71      | H        |
| 10.132000                               | 56.88                | Pk  | 37.3             | -95.2   | -47.59         | -48.61                  | -25         | -23.61      | V        |
| <b>High Channel, 2540.2MHz+2560MHz</b>  |                      |     |                  |         |                |                         |             |             |          |
| 5.096000                                | 56.50                | Pk  | 33.9             | -95.2   | -49.13         | -53.93                  | -25         | -28.93      | H        |
| 5.096000                                | 55.56                | Pk  | 33.9             | -95.2   | -49.13         | -54.87                  | -25         | -29.87      | V        |
| 7.644500                                | 55.01                | Pk  | 35.8             | -95.2   | -47.24         | -51.63                  | -25         | -26.63      | H        |
| 7.644500                                | 53.13                | Pk  | 35.8             | -95.2   | -47.24         | -53.51                  | -25         | -28.51      | V        |
| 10.193500                               | 55.25                | Pk  | 37.4             | -95.2   | -46.57         | -49.12                  | -25         | -24.12      | H        |
| 10.193500                               | 55.82                | Pk  | 37.4             | -95.2   | -46.57         | -48.55                  | -25         | -23.55      | V        |

**ULCA LTE BAND 7 (QPSK 20.0MHZ + 20.0MHZ BANDWIDTH, ANT 4)**

|                |                        |
|----------------|------------------------|
| Date:          | 2025-03-14             |
| Test Engineer: | 31300                  |
| Configuration: | EUT Only               |
| Mode:          | ULCA B7 20+20 MHz QPSK |
| Chamber #:     | 04-RDE-P               |

| Frequency (MHz)                         | Meter Reading (dBuV) | Det | 200897 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) | Polarity |
|-----------------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------------|-------------|----------|
| <b>Low Channel, 2510MHz+2529.8MHz</b>   |                      |     |                   |         |                |                         |             |             |          |
| 5.036500                                | 56.39                | Pk  | 33.9              | -95.2   | -49.24         | -54.15                  | -25         | -29.15      | H        |
| 5.036000                                | 56.03                | Pk  | 33.9              | -95.2   | -49.23         | -54.50                  | -25         | -29.50      | V        |
| 7.554500                                | 53.95                | Pk  | 35.7              | -95.2   | -47.65         | -53.20                  | -25         | -28.20      | H        |
| 7.554000                                | 54.55                | Pk  | 35.7              | -95.2   | -47.65         | -52.60                  | -25         | -27.60      | V        |
| 10.072500                               | 55.65                | Pk  | 37.3              | -95.2   | -48.05         | -50.30                  | -25         | -25.30      | H        |
| 10.071000                               | 56.40                | Pk  | 37.3              | -95.2   | -48.04         | -49.54                  | -25         | -24.54      | V        |
| <b>Mid Channel, 2525.1MHz+2544.9MHz</b> |                      |     |                   |         |                |                         |             |             |          |
| 5.068500                                | 56.32                | Pk  | 33.9              | -95.2   | -49.33         | -54.31                  | -25         | -29.31      | H        |
| 5.068000                                | 55.86                | Pk  | 33.9              | -95.2   | -49.32         | -54.76                  | -25         | -29.76      | V        |
| 7.599500                                | 54.03                | Pk  | 35.8              | -95.2   | -47.58         | -52.95                  | -25         | -27.95      | H        |
| 7.599500                                | 55.55                | Pk  | 35.8              | -95.2   | -47.58         | -51.43                  | -25         | -26.43      | V        |
| 10.131000                               | 56.30                | Pk  | 37.3              | -95.2   | -47.65         | -49.25                  | -25         | -24.25      | H        |
| 10.131500                               | 56.85                | Pk  | 37.3              | -95.2   | -47.62         | -48.67                  | -25         | -23.67      | V        |
| <b>High Channel, 2540.2MHz+2560MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.096500                                | 56.01                | Pk  | 33.9              | -95.2   | -49.14         | -54.43                  | -25         | -29.43      | H        |
| 5.096000                                | 55.36                | Pk  | 33.9              | -95.2   | -49.13         | -55.07                  | -25         | -30.07      | V        |
| 7.645000                                | 54.49                | Pk  | 35.8              | -95.2   | -47.24         | -52.15                  | -25         | -27.15      | H        |
| 7.644500                                | 54.33                | Pk  | 35.8              | -95.2   | -47.24         | -52.31                  | -25         | -27.31      | V        |
| 10.192500                               | 54.53                | Pk  | 37.4              | -95.2   | -46.60         | -49.87                  | -25         | -24.87      | H        |
| 10.193000                               | 54.97                | Pk  | 37.4              | -95.2   | -46.58         | -49.41                  | -25         | -24.41      | V        |

**ULCA LTE BAND 7 (QPSK 20.0MHZ + 20.0MHZ BANDWIDTH, ANT 2)**

|                |                        |
|----------------|------------------------|
| Date:          | 2025-03-17             |
| Test Engineer: | 31300                  |
| Configuration: | EUT ONLY               |
| Mode:          | ULCA B7 20+20 MHz QPSK |
| Chamber #:     | 04-RDE-P               |

| Frequency (MHz)                         | Meter Reading (dBuV) | Det | 200897 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) | Polarity |
|-----------------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------------|-------------|----------|
| <b>Low Channel, 2510MHz+2529.8MHz</b>   |                      |     |                   |         |                |                         |             |             |          |
| 5.037000                                | 56.60                | Pk  | 33.9              | -95.2   | -49.25         | -53.95                  | -25         | -28.95      | H        |
| 5.035500                                | 56.30                | Pk  | 33.9              | -95.2   | -49.23         | -54.23                  | -25         | -29.23      | V        |
| 7.554500                                | 53.59                | Pk  | 35.7              | -95.2   | -47.65         | -53.56                  | -25         | -28.56      | H        |
| 7.554500                                | 54.07                | Pk  | 35.7              | -95.2   | -47.65         | -53.08                  | -25         | -28.08      | V        |
| 10.072500                               | 56.29                | Pk  | 37.3              | -95.2   | -48.05         | -49.66                  | -25         | -24.66      | H        |
| 10.072000                               | 55.51                | Pk  | 37.3              | -95.2   | -48.05         | -50.44                  | -25         | -25.44      | V        |
| <b>Mid Channel, 2525.1MHz+2544.9MHz</b> |                      |     |                   |         |                |                         |             |             |          |
| 5.066500                                | 57.26                | Pk  | 33.9              | -95.2   | -49.32         | -53.36                  | -25         | -28.36      | H        |
| 5.066500                                | 55.09                | Pk  | 33.9              | -95.2   | -49.32         | -55.53                  | -25         | -30.53      | V        |
| 7.598500                                | 55.41                | Pk  | 35.8              | -95.2   | -47.57         | -51.56                  | -25         | -26.56      | H        |
| 7.600000                                | 54.18                | Pk  | 35.8              | -95.2   | -47.58         | -52.80                  | -25         | -27.80      | V        |
| 10.132000                               | 57.11                | Pk  | 37.3              | -95.2   | -47.59         | -48.38                  | -25         | -23.38      | H        |
| 10.132000                               | 55.99                | Pk  | 37.3              | -95.2   | -47.59         | -49.50                  | -25         | -24.50      | V        |
| <b>High Channel, 2540.2MHz+2560MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.096500                                | 55.77                | Pk  | 33.9              | -95.2   | -49.14         | -54.67                  | -25         | -29.67      | H        |
| 5.096000                                | 56.52                | Pk  | 33.9              | -95.2   | -49.13         | -53.91                  | -25         | -28.91      | V        |
| 7.645000                                | 53.55                | Pk  | 35.8              | -95.2   | -47.24         | -53.09                  | -25         | -28.09      | H        |
| 7.645000                                | 54.66                | Pk  | 35.8              | -95.2   | -47.24         | -51.98                  | -25         | -26.98      | V        |
| 10.191500                               | 56.60                | Pk  | 37.4              | -95.2   | -46.62         | -47.82                  | -25         | -22.82      | H        |
| 10.192000                               | 55.12                | Pk  | 37.4              | -95.2   | -46.61         | -49.29                  | -25         | -24.29      | V        |

**ULCA LTE BAND 7 (QPSK 20.0MHZ + 20.0MHZ BANDWIDTH, ANT 1)**

|                |                        |
|----------------|------------------------|
| Date:          | 2025-03-17             |
| Test Engineer: | 31300                  |
| Configuration: | EUT Only               |
| Mode:          | ULCA B7 20+20 MHz QPSK |
| Chamber #:     | 04-RDE-P               |

| Frequency (MHz)                         | Meter Reading (dBuV) | Det | 200897 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) | Polarity |
|-----------------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------------|-------------|----------|
| <b>Low Channel, 2510MHz+2529.8MHz</b>   |                      |     |                   |         |                |                         |             |             |          |
| 5.036500                                | 55.98                | Pk  | 33.9              | -95.2   | -49.24         | -54.56                  | -25         | -29.56      | H        |
| 5.037000                                | 55.91                | Pk  | 33.9              | -95.2   | -49.25         | -54.64                  | -25         | -29.64      | V        |
| 7.554000                                | 54.43                | Pk  | 35.7              | -95.2   | -47.65         | -52.72                  | -25         | -27.72      | H        |
| 7.554000                                | 57.00                | Pk  | 35.7              | -95.2   | -47.65         | -50.15                  | -25         | -25.15      | V        |
| 10.070000                               | 56.72                | Pk  | 37.3              | -95.2   | -48.05         | -49.23                  | -25         | -24.23      | H        |
| 10.072000                               | 56.75                | Pk  | 37.3              | -95.2   | -48.05         | -49.20                  | -25         | -24.20      | V        |
| <b>Mid Channel, 2525.1MHz+2544.9MHz</b> |                      |     |                   |         |                |                         |             |             |          |
| 5.065000                                | 55.89                | Pk  | 33.9              | -95.2   | -49.32         | -54.73                  | -25         | -29.73      | H        |
| 5.066500                                | 56.99                | Pk  | 33.9              | -95.2   | -49.32         | -53.63                  | -25         | -28.63      | V        |
| 7.599000                                | 53.43                | Pk  | 35.8              | -95.2   | -47.58         | -53.55                  | -25         | -28.55      | H        |
| 7.599000                                | 54.05                | Pk  | 35.8              | -95.2   | -47.58         | -52.93                  | -25         | -27.93      | V        |
| 10.133000                               | 55.34                | Pk  | 37.3              | -95.2   | -47.57         | -50.13                  | -25         | -25.13      | H        |
| 10.133000                               | 56.72                | Pk  | 37.3              | -95.2   | -47.57         | -48.75                  | -25         | -23.75      | V        |
| <b>High Channel, 2540.2MHz+2560MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.096000                                | 56.50                | Pk  | 33.9              | -95.2   | -49.13         | -53.93                  | -25         | -28.93      | H        |
| 5.096000                                | 55.18                | Pk  | 33.9              | -95.2   | -49.13         | -55.25                  | -25         | -30.25      | V        |
| 7.644500                                | 54.20                | Pk  | 35.8              | -95.2   | -47.24         | -52.44                  | -25         | -27.44      | H        |
| 7.644000                                | 54.89                | Pk  | 35.8              | -95.2   | -47.24         | -51.75                  | -25         | -26.75      | V        |
| 10.192000                               | 55.38                | Pk  | 37.4              | -95.2   | -46.61         | -49.03                  | -25         | -24.03      | H        |
| 10.192000                               | 55.25                | Pk  | 37.4              | -95.2   | -46.61         | -49.16                  | -25         | -24.16      | V        |

## 10.1.4. LTE BAND 41 (FCC)

### LTE BAND 41 (QPSK 20.0MHZ BANDWIDTH, ANT 3)

|                |                        |
|----------------|------------------------|
| Date:          | 2025-03-07             |
| Test Engineer: | 31300                  |
| Configuration: | EUT Only               |
| Mode:          | FCC LTE B41 20MHz QPSK |
| Chamber #:     | 04-RDE-P               |

| Frequency (MHz)              | Meter Reading (dBuV) | Det | 200897 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------------|-------------|----------|
| <b>Low Channel, 2506MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.011500                     | 55.12                | Pk  | 33.9              | -95.2   | -49.26         | -55.44                  | -25         | -30.44      | H        |
| 5.012500                     | 55.42                | Pk  | 33.9              | -95.2   | -49.27         | -55.15                  | -25         | -30.15      | V        |
| 7.518500                     | 54.36                | Pk  | 35.7              | -95.2   | -47.64         | -52.78                  | -25         | -27.78      | H        |
| 7.518500                     | 54.79                | Pk  | 35.7              | -95.2   | -47.64         | -52.35                  | -25         | -27.35      | V        |
| 10.023500                    | 55.13                | Pk  | 37.3              | -95.2   | -47.97         | -50.74                  | -25         | -25.74      | H        |
| 10.023500                    | 55.10                | Pk  | 37.3              | -95.2   | -47.97         | -50.77                  | -25         | -25.77      | V        |
| <b>Mid Channel, 2593MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.185500                     | 55.71                | Pk  | 34.1              | -95.2   | -48.83         | -54.22                  | -25         | -29.22      | H        |
| 5.186000                     | 55.88                | Pk  | 34.1              | -95.2   | -48.83         | -54.05                  | -25         | -29.05      | V        |
| 7.779500                     | 55.01                | Pk  | 35.8              | -95.2   | -47.44         | -51.83                  | -25         | -26.83      | H        |
| 7.779500                     | 52.06                | Pk  | 35.8              | -95.2   | -47.44         | -54.78                  | -25         | -29.78      | V        |
| 10.371500                    | 55.17                | Pk  | 37.4              | -95.2   | -47.14         | -49.77                  | -25         | -24.77      | H        |
| 10.372000                    | 55.46                | Pk  | 37.4              | -95.2   | -47.13         | -49.47                  | -25         | -24.47      | V        |
| <b>High Channel, 2680MHz</b> |                      |     |                   |         |                |                         |             |             |          |
| 5.360000                     | 55.10                | Pk  | 34.4              | -95.2   | -48.75         | -54.45                  | -25         | -29.45      | H        |
| 5.359500                     | 56.81                | Pk  | 34.4              | -95.2   | -48.75         | -52.74                  | -25         | -27.74      | V        |
| 8.041000                     | 55.36                | Pk  | 35.8              | -95.2   | -46.42         | -50.46                  | -25         | -25.46      | H        |
| 8.041000                     | 53.87                | Pk  | 35.8              | -95.2   | -46.42         | -51.95                  | -25         | -26.95      | V        |
| 10.720500                    | 52.87                | Pk  | 37.7              | -95.2   | -45.50         | -50.13                  | -25         | -25.13      | H        |
| 10.720500                    | 53.44                | Pk  | 37.7              | -95.2   | -45.50         | -49.56                  | -25         | -24.56      | V        |

**LTE BAND 41 (QPSK 20.0MHZ BANDWIDTH, ANT 4)**

|                |                        |
|----------------|------------------------|
| Date:          | 2025-03-10             |
| Test Engineer: | 31300                  |
| Configuration: | EUT Only               |
| Mode:          | FCC LTE B41 20MHz QPSK |
| Chamber #:     | 04-RDE-P               |

| Frequency (MHz)              | Meter Reading (dBUV) | Det | 200897 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------------|-------------|----------|
| <b>Low Channel, 2506MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.013000                     | 58.55                | Pk  | 33.9              | -95.2   | -49.27         | -52.02                  | -25         | -27.02      | H        |
| 5.013000                     | 54.42                | Pk  | 33.9              | -95.2   | -49.27         | -56.15                  | -25         | -31.15      | V        |
| 7.519000                     | 54.97                | Pk  | 35.7              | -95.2   | -47.64         | -52.17                  | -25         | -27.17      | H        |
| 7.519000                     | 53.83                | Pk  | 35.7              | -95.2   | -47.64         | -53.31                  | -25         | -28.31      | V        |
| 10.024500                    | 55.99                | Pk  | 37.3              | -95.2   | -47.98         | -49.89                  | -25         | -24.89      | H        |
| 10.024500                    | 56.82                | Pk  | 37.3              | -95.2   | -47.98         | -49.06                  | -25         | -24.06      | V        |
| <b>Mid Channel, 2593MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.186500                     | 53.50                | Pk  | 34.1              | -95.2   | -48.85         | -56.45                  | -25         | -31.45      | H        |
| 5.186500                     | 55.91                | Pk  | 34.1              | -95.2   | -48.85         | -54.04                  | -25         | -29.04      | V        |
| 7.779500                     | 53.92                | Pk  | 35.8              | -95.2   | -47.44         | -52.92                  | -25         | -27.92      | H        |
| 7.779500                     | 54.65                | Pk  | 35.8              | -95.2   | -47.44         | -52.19                  | -25         | -27.19      | V        |
| 10.372500                    | 55.00                | Pk  | 37.4              | -95.2   | -47.13         | -49.93                  | -25         | -24.93      | H        |
| 10.372500                    | 56.89                | Pk  | 37.4              | -95.2   | -47.13         | -48.04                  | -25         | -23.04      | V        |
| <b>High Channel, 2680MHz</b> |                      |     |                   |         |                |                         |             |             |          |
| 5.360500                     | 54.86                | Pk  | 34.4              | -95.2   | -48.75         | -54.69                  | -25         | -29.69      | H        |
| 5.360500                     | 55.11                | Pk  | 34.4              | -95.2   | -48.75         | -54.44                  | -25         | -29.44      | V        |
| 8.039500                     | 53.95                | Pk  | 35.8              | -95.2   | -46.47         | -51.92                  | -25         | -26.92      | H        |
| 8.039500                     | 53.77                | Pk  | 35.8              | -95.2   | -46.47         | -52.10                  | -25         | -27.10      | V        |
| 10.719500                    | 54.13                | Pk  | 37.7              | -95.2   | -45.50         | -48.87                  | -25         | -23.87      | H        |
| 10.719500                    | 53.30                | Pk  | 37.7              | -95.2   | -45.50         | -49.70                  | -25         | -24.70      | V        |



**LTE BAND 41 (QPSK 20.0MHZ BANDWIDTH, ANT 2)**

|                |                        |
|----------------|------------------------|
| Date:          | 2025-03-10             |
| Test Engineer: | 31300                  |
| Configuration: | EUT Only               |
| Mode:          | FCC LTE B41 20MHz QPSK |
| Chamber #:     | 04-RDE-P               |

| Frequency (MHz)              | Meter Reading (dBuV) | Det | 200897 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------------|-------------|----------|
| <b>Low Channel, 2506MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.012000                     | 55.62                | Pk  | 33.9              | -95.2   | -49.26         | -54.94                  | -25         | -29.94      | H        |
| 5.012000                     | 54.64                | Pk  | 33.9              | -95.2   | -49.26         | -55.92                  | -25         | -30.92      | V        |
| 7.518500                     | 53.82                | Pk  | 35.7              | -95.2   | -47.64         | -53.32                  | -25         | -28.32      | H        |
| 7.518500                     | 54.58                | Pk  | 35.7              | -95.2   | -47.64         | -52.56                  | -25         | -27.56      | V        |
| 10.024500                    | 56.40                | Pk  | 37.3              | -95.2   | -47.98         | -49.48                  | -25         | -24.48      | H        |
| 10.024500                    | 55.22                | Pk  | 37.3              | -95.2   | -47.98         | -50.66                  | -25         | -25.66      | V        |
| <b>Mid Channel, 2593MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.186500                     | 55.37                | Pk  | 34.1              | -95.2   | -48.85         | -54.58                  | -25         | -29.58      | H        |
| 5.186500                     | 55.69                | Pk  | 34.1              | -95.2   | -48.85         | -54.26                  | -25         | -29.26      | V        |
| 7.779000                     | 53.56                | Pk  | 35.8              | -95.2   | -47.44         | -53.28                  | -25         | -28.28      | H        |
| 7.779000                     | 54.80                | Pk  | 35.8              | -95.2   | -47.44         | -52.04                  | -25         | -27.04      | V        |
| 10.372000                    | 54.41                | Pk  | 37.4              | -95.2   | -47.13         | -50.52                  | -25         | -25.52      | H        |
| 10.372000                    | 54.51                | Pk  | 37.4              | -95.2   | -47.13         | -50.42                  | -25         | -25.42      | V        |
| <b>High Channel, 2680MHz</b> |                      |     |                   |         |                |                         |             |             |          |
| 5.360000                     | 55.10                | Pk  | 34.4              | -95.2   | -48.75         | -54.45                  | -25         | -29.45      | H        |
| 5.359500                     | 56.81                | Pk  | 34.4              | -95.2   | -48.75         | -52.74                  | -25         | -27.74      | V        |
| 8.041000                     | 55.36                | Pk  | 35.8              | -95.2   | -46.42         | -50.46                  | -25         | -25.46      | H        |
| 8.041000                     | 53.87                | Pk  | 35.8              | -95.2   | -46.42         | -51.95                  | -25         | -26.95      | V        |
| 10.720500                    | 52.87                | Pk  | 37.7              | -95.2   | -45.50         | -50.13                  | -25         | -25.13      | H        |
| 10.720500                    | 53.44                | Pk  | 37.7              | -95.2   | -45.50         | -49.56                  | -25         | -24.56      | V        |

**LTE BAND 41 (QPSK 20.0MHZ BANDWIDTH, ANT 1)**

|                |                        |
|----------------|------------------------|
| Date:          | 2025-03-12             |
| Test Engineer: | 25019                  |
| Configuration: | EUT Only               |
| Mode:          | FCC LTE B41 20MHz QPSK |
| Chamber #:     | 04-RDE-P               |

| Frequency (MHz)              | Meter Reading (dBuV) | Det | 200897 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------------|-------------|----------|
| <b>Low Channel, 2506MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 4.992000                     | 56.42                | Pk  | 33.8              | -95.2   | -49.16         | -54.14                  | -25         | -29.14      | H        |
| 4.992000                     | 55.64                | Pk  | 33.8              | -95.2   | -49.16         | -54.92                  | -25         | -29.92      | V        |
| 7.488000                     | 55.37                | Pk  | 35.7              | -95.2   | -47.51         | -51.64                  | -25         | -26.64      | H        |
| 7.488000                     | 54.69                | Pk  | 35.7              | -95.2   | -47.51         | -52.32                  | -25         | -27.32      | V        |
| 9.984500                     | 53.78                | Pk  | 37.2              | -95.2   | -47.24         | -51.46                  | -25         | -26.46      | H        |
| 9.984500                     | 54.04                | Pk  | 37.2              | -95.2   | -47.24         | -51.20                  | -25         | -26.20      | V        |
| <b>Mid Channel, 2593MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.166500                     | 54.06                | Pk  | 34.1              | -95.2   | -48.80         | -55.84                  | -25         | -30.84      | H        |
| 5.166500                     | 55.66                | Pk  | 34.1              | -95.2   | -48.80         | -54.24                  | -25         | -29.24      | V        |
| 7.749500                     | 54.04                | Pk  | 35.8              | -95.2   | -47.49         | -52.85                  | -25         | -27.85      | H        |
| 7.749500                     | 53.95                | Pk  | 35.8              | -95.2   | -47.49         | -52.94                  | -25         | -27.94      | V        |
| 10.332000                    | 54.34                | Pk  | 37.4              | -95.2   | -47.23         | -50.69                  | -25         | -25.69      | H        |
| 10.332000                    | 54.47                | Pk  | 37.4              | -95.2   | -47.23         | -50.56                  | -25         | -25.56      | V        |
| <b>High Channel, 2680MHz</b> |                      |     |                   |         |                |                         |             |             |          |
| 5.341000                     | 55.17                | Pk  | 34.4              | -95.2   | -48.88         | -54.51                  | -25         | -29.51      | H        |
| 5.341000                     | 54.77                | Pk  | 34.4              | -95.2   | -48.88         | -54.91                  | -25         | -29.91      | V        |
| 8.011000                     | 52.89                | Pk  | 35.8              | -95.2   | -46.58         | -53.09                  | -25         | -28.09      | H        |
| 8.011000                     | 52.72                | Pk  | 35.8              | -95.2   | -46.58         | -53.26                  | -25         | -28.26      | V        |
| 10.680500                    | 52.48                | Pk  | 37.7              | -95.2   | -45.64         | -50.66                  | -25         | -25.66      | H        |
| 10.680500                    | 53.60                | Pk  | 37.7              | -95.2   | -45.64         | -49.54                  | -25         | -24.54      | V        |

## 10.1.5. 5G NR n41 (SISO, FCC)

### 5G NR n41 (BPSK 100.0MHZ BANDWIDTH, ANT 3)

|                |                               |
|----------------|-------------------------------|
| Date:          | 2025-03-18                    |
| Test Engineer: | 26051                         |
| Configuration: | EUT Only                      |
| Mode:          | FCC FR1 5G NR n41 100MHz BPSK |
| Chamber #:     | 05-RDE-A                      |

| Frequency (MHz)       | Meter Reading (dBuV) | Det | 80403 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) | Polarity |
|-----------------------|----------------------|-----|------------------|---------|----------------|-------------------------|-------------|-------------|----------|
| Low Channel, 2546MHz  |                      |     |                  |         |                |                         |             |             |          |
| 5.091000              | 55.84                | Pk  | 34.3             | -95.2   | -47.30         | -52.36                  | -25         | -27.36      | H        |
| 5.097500              | 55.71                | Pk  | 34.3             | -95.2   | -47.30         | -52.49                  | -25         | -27.49      | V        |
| 7.643000              | 55.04                | Pk  | 35.8             | -95.2   | -45.00         | -49.36                  | -25         | -24.36      | H        |
| 7.636000              | 54.09                | Pk  | 35.8             | -95.2   | -45.00         | -50.31                  | -25         | -25.31      | V        |
| 10.182000             | 54.55                | Pk  | 37.6             | -95.2   | -44.30         | -47.35                  | -25         | -22.35      | H        |
| 10.187500             | 54.99                | Pk  | 37.6             | -95.2   | -44.15         | -46.76                  | -25         | -21.76      | V        |
| Mid Channel, 2593MHz  |                      |     |                  |         |                |                         |             |             |          |
| 5.183500              | 55.26                | Pk  | 34.4             | -95.2   | -46.95         | -52.49                  | -25         | -27.49      | H        |
| 5.187000              | 55.94                | Pk  | 34.4             | -95.2   | -47.10         | -51.96                  | -25         | -26.96      | V        |
| 7.791000              | 53.23                | Pk  | 35.8             | -95.2   | -44.30         | -50.47                  | -25         | -25.47      | H        |
| 7.779000              | 53.07                | Pk  | 35.8             | -95.2   | -44.10         | -50.43                  | -25         | -25.43      | V        |
| 10.378000             | 54.49                | Pk  | 37.8             | -95.2   | -44.00         | -46.91                  | -25         | -21.91      | H        |
| 10.384500             | 55.08                | Pk  | 37.8             | -95.2   | -43.80         | -46.12                  | -25         | -21.12      | V        |
| High Channel, 2640MHz |                      |     |                  |         |                |                         |             |             |          |
| 5.182500              | 54.73                | Pk  | 34.4             | -95.2   | -46.95         | -53.02                  | -25         | -28.02      | H        |
| 5.187500              | 55.71                | Pk  | 34.4             | -95.2   | -47.10         | -52.19                  | -25         | -27.19      | V        |
| 7.776000              | 52.88                | Pk  | 35.8             | -95.2   | -44.30         | -50.82                  | -25         | -25.82      | H        |
| 7.774500              | 52.24                | Pk  | 35.8             | -95.2   | -44.30         | -51.46                  | -25         | -26.46      | V        |
| 10.376000             | 53.26                | Pk  | 37.8             | -95.2   | -43.90         | -48.04                  | -25         | -23.04      | H        |
| 10.373000             | 52.95                | Pk  | 37.8             | -95.2   | -43.90         | -48.35                  | -25         | -23.35      | V        |

**5G NR n41 (BPSK 100.0MHZ BANDWIDTH, ANT 4)**

|                |                               |
|----------------|-------------------------------|
| Date:          | 2025-03-18                    |
| Test Engineer: | 25196                         |
| Configuration: | EUT Only                      |
| Mode:          | FCC FR1 5G NR n41 100MHz BPSK |
| Chamber #:     | 05-RDE-A                      |

| Frequency (MHz)              | Meter Reading (dBuV) | Det | 200897 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------------|-------------|----------|
| <b>Low Channel, 2546MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.086000                     | 54.38                | Pk  | 34.3              | -95.2   | -47.20         | -53.72                  | -25         | -28.72      | H        |
| 5.088000                     | 54.93                | Pk  | 34.3              | -95.2   | -47.30         | -53.27                  | -25         | -28.27      | V        |
| 7.644000                     | 52.95                | Pk  | 35.8              | -95.2   | -44.90         | -51.35                  | -25         | -26.35      | H        |
| 7.643000                     | 53.64                | Pk  | 35.8              | -95.2   | -45.00         | -50.76                  | -25         | -25.76      | V        |
| 10.179500                    | 55.64                | Pk  | 37.6              | -95.2   | -44.40         | -46.36                  | -25         | -21.36      | H        |
| 10.177500                    | 53.96                | Pk  | 37.6              | -95.2   | -44.25         | -47.89                  | -25         | -22.89      | V        |
| <b>Mid Channel, 2593MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.174000                     | 55.54                | Pk  | 34.4              | -95.2   | -47.10         | -52.36                  | -25         | -27.36      | H        |
| 5.177500                     | 55.03                | Pk  | 34.4              | -95.2   | -47.05         | -52.82                  | -25         | -27.82      | V        |
| 7.772500                     | 52.98                | Pk  | 35.8              | -95.2   | -44.35         | -50.77                  | -25         | -25.77      | H        |
| 7.774500                     | 52.99                | Pk  | 35.8              | -95.2   | -44.30         | -50.71                  | -25         | -25.71      | V        |
| 10.373000                    | 52.77                | Pk  | 37.8              | -95.2   | -43.90         | -48.53                  | -25         | -23.53      | H        |
| 10.371500                    | 53.39                | Pk  | 37.8              | -95.2   | -43.90         | -47.91                  | -25         | -22.91      | V        |
| <b>High Channel, 2640MHz</b> |                      |     |                   |         |                |                         |             |             |          |
| 5.284000                     | 54.53                | Pk  | 34.6              | -95.2   | -46.80         | -52.87                  | -25         | -27.87      | H        |
| 5.283000                     | 55.20                | Pk  | 34.6              | -95.2   | -46.90         | -52.30                  | -25         | -27.30      | V        |
| 7.922500                     | 52.55                | Pk  | 35.8              | -95.2   | -44.25         | -51.10                  | -25         | -26.10      | H        |
| 7.922000                     | 52.16                | Pk  | 35.8              | -95.2   | -44.30         | -51.54                  | -25         | -26.54      | V        |
| 10.552000                    | 52.50                | Pk  | 37.8              | -95.2   | -43.30         | -48.20                  | -25         | -23.20      | H        |
| 10.553500                    | 51.86                | Pk  | 37.8              | -95.2   | -43.30         | -48.84                  | -25         | -23.84      | V        |

**5G NR n41 (BPSK 100.0MHZ BANDWIDTH, ANT 2)**

|                |                               |
|----------------|-------------------------------|
| Date:          | 2025-03-18                    |
| Test Engineer: | 25196                         |
| Configuration: | EUT Only                      |
| Mode:          | FCC FR1 5G NR n41 100MHz BPSK |
| Chamber #:     | 05-RDE-A                      |

| Frequency (MHz)              | Meter Reading (dBuV) | Det | 200897 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------------|-------------|----------|
| <b>Low Channel, 2546MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.272500                     | 55.73                | Pk  | 34.6              | -95.2   | -47.05         | -51.92                  | -25         | -26.92      | H        |
| 5.274500                     | 54.89                | Pk  | 34.5              | -95.2   | -47.05         | -52.86                  | -25         | -27.86      | V        |
| 7.923000                     | 53.31                | Pk  | 35.8              | -95.2   | -44.20         | -50.29                  | -25         | -25.29      | H        |
| 7.921000                     | 52.63                | Pk  | 35.8              | -95.2   | -44.30         | -51.07                  | -25         | -26.07      | V        |
| 10.569000                    | 52.31                | Pk  | 37.8              | -95.2   | -43.30         | -48.39                  | -25         | -23.39      | H        |
| 10.571500                    | 53.38                | Pk  | 37.8              | -95.2   | -43.35         | -47.37                  | -25         | -22.37      | V        |
| <b>Mid Channel, 2593MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.096000                     | 55.02                | Pk  | 34.3              | -95.2   | -47.30         | -53.18                  | -25         | -28.18      | H        |
| 5.099000                     | 55.02                | Pk  | 34.3              | -95.2   | -47.30         | -53.18                  | -25         | -28.18      | V        |
| 7.645000                     | 53.19                | Pk  | 35.8              | -95.2   | -45.00         | -51.21                  | -25         | -26.21      | H        |
| 7.643500                     | 54.23                | Pk  | 35.8              | -95.2   | -44.95         | -50.12                  | -25         | -25.12      | V        |
| 10.177000                    | 53.15                | Pk  | 37.6              | -95.2   | -44.20         | -48.65                  | -25         | -23.65      | H        |
| 10.182000                    | 54.33                | Pk  | 37.6              | -95.2   | -44.30         | -47.57                  | -25         | -22.57      | V        |
| <b>High Channel, 2640MHz</b> |                      |     |                   |         |                |                         |             |             |          |
| 5.186000                     | 56.81                | Pk  | 34.1              | -95.2   | -48.83         | -53.12                  | -25         | -28.12      | H        |
| 5.186000                     | 54.88                | Pk  | 34.1              | -95.2   | -48.83         | -55.05                  | -25         | -30.05      | V        |
| 7.779500                     | 54.01                | Pk  | 35.8              | -95.2   | -47.44         | -52.83                  | -25         | -27.83      | H        |
| 7.779500                     | 53.98                | Pk  | 35.8              | -95.2   | -47.44         | -52.86                  | -25         | -27.86      | V        |
| 10.372000                    | 54.35                | Pk  | 37.4              | -95.2   | -47.13         | -50.58                  | -25         | -25.58      | H        |
| 10.372000                    | 54.53                | Pk  | 37.4              | -95.2   | -47.13         | -50.40                  | -25         | -25.40      | V        |

**5G NR n41 (BPSK 100.0MHZ BANDWIDTH, ANT 1)**

|                |                               |
|----------------|-------------------------------|
| Date:          | 2025-03-18                    |
| Test Engineer: | 25196                         |
| Configuration: | EUT Only                      |
| Mode:          | FCC FR1 5G NR n41 100MHz BPSK |
| Chamber #:     | 05-RDE-A                      |

| Frequency (MHz)              | Meter Reading (dBuV) | Det | 200897 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------------|-------------|----------|
| <b>Low Channel, 2546MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.088500                     | 54.26                | Pk  | 34.3              | -95.2   | -47.30         | -53.94                  | -25         | -28.94      | H        |
| 5.089500                     | 55.63                | Pk  | 34.3              | -95.2   | -47.30         | -52.57                  | -25         | -27.57      | V        |
| 7.641500                     | 53.41                | Pk  | 35.8              | -95.2   | -45.00         | -50.99                  | -25         | -25.99      | H        |
| 7.643500                     | 52.81                | Pk  | 35.8              | -95.2   | -44.95         | -51.54                  | -25         | -26.54      | V        |
| 10.181500                    | 54.61                | Pk  | 37.6              | -95.2   | -44.30         | -47.29                  | -25         | -22.29      | H        |
| 10.177000                    | 54.56                | Pk  | 37.6              | -95.2   | -44.20         | -47.24                  | -25         | -22.24      | V        |
| <b>Mid Channel, 2593MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.186500                     | 54.12                | Pk  | 34.4              | -95.2   | -47.05         | -53.73                  | -25         | -28.73      | H        |
| 5.187500                     | 55.26                | Pk  | 34.4              | -95.2   | -47.10         | -52.64                  | -25         | -27.64      | V        |
| 7.777500                     | 53.70                | Pk  | 35.8              | -95.2   | -44.20         | -49.90                  | -25         | -24.90      | H        |
| 7.777500                     | 52.80                | Pk  | 35.8              | -95.2   | -44.20         | -50.80                  | -25         | -25.80      | V        |
| 10.373500                    | 53.16                | Pk  | 37.8              | -95.2   | -43.90         | -48.14                  | -25         | -23.14      | H        |
| 10.376000                    | 55.72                | Pk  | 37.8              | -95.2   | -43.90         | -45.58                  | -25         | -20.58      | V        |
| <b>High Channel, 2640MHz</b> |                      |     |                   |         |                |                         |             |             |          |
| 5.286500                     | 54.98                | Pk  | 34.6              | -95.2   | -46.90         | -52.52                  | -25         | -27.52      | H        |
| 5.281500                     | 54.44                | Pk  | 34.6              | -95.2   | -46.85         | -53.01                  | -25         | -28.01      | V        |
| 7.923500                     | 52.59                | Pk  | 35.8              | -95.2   | -44.20         | -51.01                  | -25         | -26.01      | H        |
| 7.922500                     | 52.72                | Pk  | 35.8              | -95.2   | -44.25         | -50.93                  | -25         | -25.93      | V        |
| 10.570000                    | 51.93                | Pk  | 37.8              | -95.2   | -43.30         | -48.77                  | -25         | -23.77      | H        |
| 10.574000                    | 53.10                | Pk  | 37.8              | -95.2   | -43.30         | -47.60                  | -25         | -22.60      | V        |

## 10.1.6. 5G NR n41 (MIMO, FCC)

### 5G NR n41 (BPSK 100.0MHZ BANDWIDTH, ANT 3+4)

|                |                                     |
|----------------|-------------------------------------|
| Date:          | 2025-03-25                          |
| Test Engineer: | 25019                               |
| Configuration: | EUT Only                            |
| Mode:          | FCC FR1 5G n41 FCC 100MHz BPSK_MIMO |
| Chamber #:     | 04-RDE-P                            |

| Frequency (MHz)              | Meter Reading (dBuV) | Det | 200897 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------------|-------------|----------|
| <b>Low Channel, 2546MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 4.992500                     | 55.62                | Pk  | 33.8              | -95.2   | -49.16         | -54.94                  | -25         | -29.94      | H        |
| 4.992500                     | 55.11                | Pk  | 33.8              | -95.2   | -49.16         | -55.45                  | -25         | -30.45      | V        |
| 7.489000                     | 53.41                | Pk  | 35.7              | -95.2   | -47.53         | -53.62                  | -25         | -28.62      | H        |
| 7.489000                     | 53.76                | Pk  | 35.7              | -95.2   | -47.53         | -53.27                  | -25         | -28.27      | V        |
| 9.984000                     | 55.56                | Pk  | 37.2              | -95.2   | -47.25         | -49.69                  | -25         | -24.69      | H        |
| 9.984000                     | 54.42                | Pk  | 37.2              | -95.2   | -47.25         | -50.83                  | -25         | -25.83      | V        |
| <b>Mid Channel, 2593MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.085000                     | 59.38                | Pk  | 33.9              | -95.2   | -49.25         | -51.17                  | -25         | -26.17      | H        |
| 5.085000                     | 55.88                | Pk  | 33.9              | -95.2   | -49.25         | -54.67                  | -25         | -29.67      | V        |
| 7.626500                     | 55.06                | Pk  | 35.8              | -95.2   | -47.53         | -51.87                  | -25         | -26.87      | H        |
| 7.626500                     | 56.56                | Pk  | 35.8              | -95.2   | -47.53         | -50.37                  | -25         | -25.37      | V        |
| 10.168500                    | 54.76                | Pk  | 37.4              | -95.2   | -47.31         | -50.35                  | -25         | -25.35      | H        |
| 10.168500                    | 55.13                | Pk  | 37.4              | -95.2   | -47.31         | -49.98                  | -25         | -24.98      | V        |
| <b>High Channel, 2640MHz</b> |                      |     |                   |         |                |                         |             |             |          |
| 5.180500                     | 54.83                | Pk  | 34.1              | -95.2   | -48.79         | -55.06                  | -25         | -30.06      | H        |
| 5.180500                     | 55.39                | Pk  | 34.1              | -95.2   | -48.79         | -54.50                  | -25         | -29.50      | V        |
| 7.771000                     | 54.28                | Pk  | 35.8              | -95.2   | -47.41         | -52.53                  | -25         | -27.53      | H        |
| 7.771000                     | 55.15                | Pk  | 35.8              | -95.2   | -47.41         | -51.66                  | -25         | -26.66      | V        |
| 10.360500                    | 53.96                | Pk  | 37.4              | -95.2   | -47.20         | -51.04                  | -25         | -26.04      | H        |
| 10.360500                    | 53.95                | Pk  | 37.4              | -95.2   | -47.20         | -51.05                  | -25         | -26.05      | V        |

**5G NR n41 (BPSK 100.0MHZ BANDWIDTH, ANT 3+2)**

|                |                                     |
|----------------|-------------------------------------|
| Date:          | 2025-04-09                          |
| Test Engineer: | 25019                               |
| Configuration: | EUT Only                            |
| Mode:          | FCC FR1 5G n41 FCC 100MHz BPSK_MIMO |
| Chamber #:     | 04-RDE-P                            |

| Frequency (MHz)              | Meter Reading (dBUV) | Det | 200897 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------------|-------------|----------|
| <b>Low Channel, 2546MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 4.992500                     | 57.33                | Pk  | 33.8              | -95.2   | -49.16         | -53.23                  | -25         | -28.23      | H        |
| 4.992500                     | 54.85                | Pk  | 33.8              | -95.2   | -49.16         | -55.71                  | -25         | -30.71      | V        |
| 7.488500                     | 53.01                | Pk  | 35.7              | -95.2   | -47.52         | -54.01                  | -25         | -29.01      | H        |
| 7.488500                     | 53.23                | Pk  | 35.7              | -95.2   | -47.52         | -53.79                  | -25         | -28.79      | V        |
| 9.984500                     | 54.14                | Pk  | 37.2              | -95.2   | -47.24         | -51.10                  | -25         | -26.10      | H        |
| 9.984500                     | 54.22                | Pk  | 37.2              | -95.2   | -47.24         | -51.02                  | -25         | -26.02      | V        |
| <b>Mid Channel, 2593MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.085000                     | 55.17                | Pk  | 33.9              | -95.2   | -49.25         | -55.38                  | -25         | -30.38      | H        |
| 5.085000                     | 55.58                | Pk  | 33.9              | -95.2   | -49.25         | -54.97                  | -25         | -29.97      | V        |
| 7.629000                     | 52.70                | Pk  | 35.8              | -95.2   | -47.49         | -54.19                  | -25         | -29.19      | H        |
| 7.629000                     | 54.15                | Pk  | 35.8              | -95.2   | -47.49         | -52.74                  | -25         | -27.74      | V        |
| 10.171500                    | 54.78                | Pk  | 37.4              | -95.2   | -47.25         | -50.27                  | -25         | -25.27      | H        |
| 10.171500                    | 55.15                | Pk  | 37.4              | -95.2   | -47.25         | -49.90                  | -25         | -24.90      | V        |
| <b>High Channel, 2640MHz</b> |                      |     |                   |         |                |                         |             |             |          |
| 5.180000                     | 56.14                | Pk  | 34.1              | -95.2   | -48.79         | -53.75                  | -25         | -28.75      | H        |
| 5.180000                     | 54.58                | Pk  | 34.1              | -95.2   | -48.79         | -55.31                  | -25         | -30.31      | V        |
| 7.770500                     | 52.86                | Pk  | 35.8              | -95.2   | -47.41         | -53.95                  | -25         | -28.95      | H        |
| 7.770500                     | 53.30                | Pk  | 35.8              | -95.2   | -47.41         | -53.51                  | -25         | -28.51      | V        |
| 10.360500                    | 55.10                | Pk  | 37.4              | -95.2   | -47.20         | -49.90                  | -25         | -24.90      | H        |
| 10.360500                    | 55.15                | Pk  | 37.4              | -95.2   | -47.20         | -49.85                  | -25         | -24.85      | V        |



**5G NR n41 (BPSK 100.0MHZ BANDWIDTH, ANT 3+1)**

|                |                                     |
|----------------|-------------------------------------|
| Date:          | 2025-04-09                          |
| Test Engineer: | 25019                               |
| Configuration: | EUT Only                            |
| Mode:          | FCC FR1 5G n41 FCC 100MHz BPSK_MIMO |
| Chamber #:     | 04-RDE-P                            |

| Frequency (MHz)              | Meter Reading (dBuV) | Det | 200897 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------------|-------------|----------|
| <b>Low Channel, 2546MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 4.992500                     | 54.21                | Pk  | 33.8              | -95.2   | -49.16         | -56.35                  | -25         | -31.35      | H        |
| 4.992500                     | 54.71                | Pk  | 33.8              | -95.2   | -49.16         | -55.85                  | -25         | -30.85      | V        |
| 7.488500                     | 52.58                | Pk  | 35.7              | -95.2   | -47.52         | -54.44                  | -25         | -29.44      | H        |
| 7.488500                     | 53.32                | Pk  | 35.7              | -95.2   | -47.52         | -53.70                  | -25         | -28.70      | V        |
| 9.984500                     | 54.38                | Pk  | 37.2              | -95.2   | -47.24         | -50.86                  | -25         | -25.86      | H        |
| 9.984500                     | 55.70                | Pk  | 37.2              | -95.2   | -47.24         | -49.54                  | -25         | -24.54      | V        |
| <b>Mid Channel, 2593MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.085000                     | 55.25                | Pk  | 33.9              | -95.2   | -49.25         | -55.30                  | -25         | -30.30      | H        |
| 5.085000                     | 54.84                | Pk  | 33.9              | -95.2   | -49.25         | -55.71                  | -25         | -30.71      | V        |
| 7.629000                     | 54.20                | Pk  | 35.8              | -95.2   | -47.49         | -52.69                  | -25         | -27.69      | H        |
| 7.629000                     | 54.90                | Pk  | 35.8              | -95.2   | -47.49         | -51.99                  | -25         | -26.99      | V        |
| 10.171500                    | 55.26                | Pk  | 37.4              | -95.2   | -47.25         | -49.79                  | -25         | -24.79      | H        |
| 10.171500                    | 53.87                | Pk  | 37.4              | -95.2   | -47.25         | -51.18                  | -25         | -26.18      | V        |
| <b>High Channel, 2640MHz</b> |                      |     |                   |         |                |                         |             |             |          |
| 5.181000                     | 54.69                | Pk  | 34.1              | -95.2   | -48.78         | -55.19                  | -25         | -30.19      | H        |
| 5.181000                     | 55.51                | Pk  | 34.1              | -95.2   | -48.78         | -54.37                  | -25         | -29.37      | V        |
| 7.770000                     | 54.19                | Pk  | 35.8              | -95.2   | -47.41         | -52.62                  | -25         | -27.62      | H        |
| 7.770000                     | 53.62                | Pk  | 35.8              | -95.2   | -47.41         | -53.19                  | -25         | -28.19      | V        |
| 10.361000                    | 53.37                | Pk  | 37.4              | -95.2   | -47.21         | -51.64                  | -25         | -26.64      | H        |
| 10.361000                    | 54.46                | Pk  | 37.4              | -95.2   | -47.21         | -50.55                  | -25         | -25.55      | V        |

**5G NR n41 (BPSK 100.0MHZ BANDWIDTH, ANT 2+4)**

|                |                                     |
|----------------|-------------------------------------|
| Date:          | 4/23/2025                           |
| Test Engineer: | 25019                               |
| Configuration: | EUT Only                            |
| Mode:          | FCC FR1 5G n41 FCC 100MHz BPSK_MIMO |
| Chamber #:     | 04-RDE-P                            |

| Frequency (MHz)              | Meter Reading (dBUV) | Det | 200897 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------------|-------------|----------|
| <b>Low Channel, 2546MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 4.993000                     | 56.03                | Pk  | 33.8              | -95.2   | -49.16         | -54.53                  | -25         | -29.53      | H        |
| 4.993000                     | 54.79                | Pk  | 33.8              | -95.2   | -49.16         | -55.77                  | -25         | -30.77      | V        |
| 7.488500                     | 52.99                | Pk  | 35.7              | -95.2   | -47.52         | -54.03                  | -25         | -29.03      | H        |
| 7.488500                     | 54.61                | Pk  | 35.7              | -95.2   | -47.52         | -52.41                  | -25         | -27.41      | V        |
| 9.985000                     | 53.91                | Pk  | 37.2              | -95.2   | -47.23         | -51.32                  | -25         | -26.32      | H        |
| 9.985000                     | 55.82                | Pk  | 37.2              | -95.2   | -47.23         | -49.41                  | -25         | -24.41      | V        |
| <b>Mid Channel, 2593MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.186000                     | 55.16                | Pk  | 34.1              | -95.2   | -48.83         | -54.77                  | -25         | -29.77      | H        |
| 5.186000                     | 54.97                | Pk  | 34.1              | -95.2   | -48.83         | -54.96                  | -25         | -29.96      | V        |
| 7.779000                     | 53.62                | Pk  | 35.8              | -95.2   | -47.44         | -53.22                  | -25         | -28.22      | H        |
| 7.779000                     | 53.54                | Pk  | 35.8              | -95.2   | -47.44         | -53.30                  | -25         | -28.30      | V        |
| 10.372500                    | 55.13                | Pk  | 37.4              | -95.2   | -47.13         | -49.80                  | -25         | -24.80      | H        |
| 10.372500                    | 54.02                | Pk  | 37.4              | -95.2   | -47.13         | -50.91                  | -25         | -25.91      | V        |
| <b>High Channel, 2640MHz</b> |                      |     |                   |         |                |                         |             |             |          |
| 5.281000                     | 56.15                | Pk  | 34.3              | -95.2   | -48.97         | -53.72                  | -25         | -28.72      | H        |
| 5.281000                     | 55.78                | Pk  | 34.3              | -95.2   | -48.97         | -54.09                  | -25         | -29.09      | V        |
| 7.920500                     | 54.43                | Pk  | 35.9              | -95.2   | -46.41         | -51.28                  | -25         | -26.28      | H        |
| 7.920500                     | 51.94                | Pk  | 35.9              | -95.2   | -46.41         | -53.77                  | -25         | -28.77      | V        |
| 10.559500                    | 53.08                | Pk  | 37.6              | -95.2   | -45.86         | -50.38                  | -25         | -25.38      | H        |
| 10.559500                    | 54.71                | Pk  | 37.6              | -95.2   | -45.86         | -48.75                  | -25         | -23.75      | V        |

**5G NR n41 (BPSK 100.0MHZ BANDWIDTH, ANT 2+1)**

|                |                                     |
|----------------|-------------------------------------|
| Date:          | 2025-03-26                          |
| Test Engineer: | 25019                               |
| Configuration: | EUT Only                            |
| Mode:          | FCC FR1 5G n41 FCC 100MHz BPSK_MIMO |
| Chamber #:     | 04-RDE-P                            |

| Frequency (MHz)              | Meter Reading (dBuV) | Det | 200897 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------------|-------------|----------|
| <b>Low Channel, 2546MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 4.992500                     | 56.37                | Pk  | 33.8              | -95.2   | -49.16         | -54.19                  | -25         | -29.19      | H        |
| 4.992500                     | 54.04                | Pk  | 33.8              | -95.2   | -49.16         | -56.52                  | -25         | -31.52      | V        |
| 7.488500                     | 52.54                | Pk  | 35.7              | -95.2   | -47.52         | -54.48                  | -25         | -29.48      | H        |
| 7.488500                     | 53.51                | Pk  | 35.7              | -95.2   | -47.52         | -53.51                  | -25         | -28.51      | V        |
| 9.984500                     | 54.02                | Pk  | 37.2              | -95.2   | -47.24         | -51.22                  | -25         | -26.22      | H        |
| 9.984500                     | 54.61                | Pk  | 37.2              | -95.2   | -47.24         | -50.63                  | -25         | -25.63      | V        |
| <b>Mid Channel, 2593MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.085500                     | 56.63                | Pk  | 33.9              | -95.2   | -49.26         | -53.93                  | -25         | -28.93      | H        |
| 5.085500                     | 56.81                | Pk  | 33.9              | -95.2   | -49.26         | -53.75                  | -25         | -28.75      | V        |
| 7.629000                     | 54.80                | Pk  | 35.8              | -95.2   | -47.49         | -52.09                  | -25         | -27.09      | H        |
| 7.629000                     | 54.55                | Pk  | 35.8              | -95.2   | -47.49         | -52.34                  | -25         | -27.34      | V        |
| 10.171500                    | 55.52                | Pk  | 37.4              | -95.2   | -47.25         | -49.53                  | -25         | -24.53      | H        |
| 10.171500                    | 56.49                | Pk  | 37.4              | -95.2   | -47.25         | -48.56                  | -25         | -23.56      | V        |
| <b>High Channel, 2640MHz</b> |                      |     |                   |         |                |                         |             |             |          |
| 5.180500                     | 55.67                | Pk  | 34.1              | -95.2   | -48.79         | -54.22                  | -25         | -29.22      | H        |
| 5.180500                     | 54.60                | Pk  | 34.1              | -95.2   | -48.79         | -55.29                  | -25         | -30.29      | V        |
| 7.770000                     | 53.10                | Pk  | 35.8              | -95.2   | -47.41         | -53.71                  | -25         | -28.71      | H        |
| 7.770000                     | 52.43                | Pk  | 35.8              | -95.2   | -47.41         | -54.38                  | -25         | -29.38      | V        |
| 10.360500                    | 54.18                | Pk  | 37.4              | -95.2   | -47.20         | -50.82                  | -25         | -25.82      | H        |
| 10.360500                    | 56.82                | Pk  | 37.4              | -95.2   | -47.20         | -48.18                  | -25         | -23.18      | V        |

**5G NR n41 (BPSK 100.0MHZ BANDWIDTH, ANT 1+4)**

|                |                                     |
|----------------|-------------------------------------|
| Date:          | 4/23/2025                           |
| Test Engineer: | 25019                               |
| Configuration: | EUT Only                            |
| Mode:          | FCC FR1 5G n41 FCC 100MHz BPSK_MIMO |
| Chamber #:     | 04-RDE-P                            |

| Frequency (MHz)              | Meter Reading (dBuV) | Det | 200897 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------------|-------------|----------|
| <b>Low Channel, 2546MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 4.993000                     | 54.04                | Pk  | 33.8              | -95.2   | -49.16         | -56.52                  | -25         | -31.52      | H        |
| 4.993000                     | 54.60                | Pk  | 33.8              | -95.2   | -49.16         | -55.96                  | -25         | -30.96      | V        |
| 7.488000                     | 53.24                | Pk  | 35.7              | -95.2   | -47.51         | -53.77                  | -25         | -28.77      | H        |
| 7.488000                     | 54.38                | Pk  | 35.7              | -95.2   | -47.51         | -52.63                  | -25         | -27.63      | V        |
| 9.984500                     | 54.66                | Pk  | 37.2              | -95.2   | -47.24         | -50.58                  | -25         | -25.58      | H        |
| 9.984500                     | 55.43                | Pk  | 37.2              | -95.2   | -47.24         | -49.81                  | -25         | -24.81      | V        |
| <b>Mid Channel, 2593MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.187000                     | 53.93                | Pk  | 34.1              | -95.2   | -48.86         | -56.03                  | -25         | -31.03      | H        |
| 5.187000                     | 55.60                | Pk  | 34.1              | -95.2   | -48.86         | -54.36                  | -25         | -29.36      | V        |
| 7.779000                     | 53.46                | Pk  | 35.8              | -95.2   | -47.44         | -53.38                  | -25         | -28.38      | H        |
| 7.779000                     | 54.65                | Pk  | 35.8              | -95.2   | -47.44         | -52.19                  | -25         | -27.19      | V        |
| 10.372500                    | 54.18                | Pk  | 37.4              | -95.2   | -47.13         | -50.75                  | -25         | -25.75      | H        |
| 10.372500                    | 54.26                | Pk  | 37.4              | -95.2   | -47.13         | -50.67                  | -25         | -25.67      | V        |
| <b>High Channel, 2640MHz</b> |                      |     |                   |         |                |                         |             |             |          |
| 5.280500                     | 55.51                | Pk  | 34.3              | -95.2   | -48.98         | -54.37                  | -25         | -29.37      | H        |
| 5.280500                     | 54.69                | Pk  | 34.3              | -95.2   | -48.98         | -55.19                  | -25         | -30.19      | V        |
| 7.920000                     | 52.68                | Pk  | 35.9              | -95.2   | -46.41         | -53.03                  | -25         | -28.03      | H        |
| 7.920000                     | 53.72                | Pk  | 35.9              | -95.2   | -46.41         | -51.99                  | -25         | -26.99      | V        |
| 10.561000                    | 54.25                | Pk  | 37.6              | -95.2   | -45.89         | -49.24                  | -25         | -24.24      | H        |
| 10.561000                    | 53.12                | Pk  | 37.6              | -95.2   | -45.89         | -50.37                  | -25         | -25.37      | V        |

## 10.1.7. ULCA LTE BAND 41 (FCC)

### ULCA LTE BAND 41 (QPSK 20.0MHZ + 20.0MHZ BANDWIDTH, ANT 3)

|                |                             |
|----------------|-----------------------------|
| Date:          | 2025-03-12                  |
| Test Engineer: | 25019                       |
| Configuration: | EUT Only                    |
| Mode:          | FCC ULCA B41 20+20 MHz QPSK |
| Chamber #:     | 04-RDE-P                    |

| Frequency (MHz)                           | Meter Reading (dBuV) | Det | 200897 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) | Polarity |
|-------------------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------------|-------------|----------|
| <b>Low Channel, 2506MHz + 2525.8MHz</b>   |                      |     |                   |         |                |                         |             |             |          |
| 5.028000                                  | 56.02                | Pk  | 33.9              | -95.2   | -49.29         | -54.57                  | -25         | -29.57      | H        |
| 5.028000                                  | 54.87                | Pk  | 33.9              | -95.2   | -49.29         | -55.72                  | -25         | -30.72      | V        |
| 7.524500                                  | 54.09                | Pk  | 35.7              | -95.2   | -47.64         | -53.05                  | -25         | -28.05      | H        |
| 7.524500                                  | 53.58                | Pk  | 35.7              | -95.2   | -47.64         | -53.56                  | -25         | -28.56      | V        |
| 10.056500                                 | 55.64                | Pk  | 37.3              | -95.2   | -48.10         | -50.36                  | -25         | -25.36      | H        |
| 10.056500                                 | 56.52                | Pk  | 37.3              | -95.2   | -48.10         | -49.48                  | -25         | -24.48      | V        |
| <b>Mid Channel, 2583.1MHz + 2602.9MHz</b> |                      |     |                   |         |                |                         |             |             |          |
| 5.183500                                  | 55.49                | Pk  | 34.1              | -95.2   | -48.80         | -54.41                  | -25         | -29.41      | H        |
| 5.183500                                  | 57.04                | Pk  | 34.1              | -95.2   | -48.80         | -52.86                  | -25         | -27.86      | V        |
| 7.773000                                  | 54.21                | Pk  | 35.8              | -95.2   | -47.43         | -52.62                  | -25         | -27.62      | H        |
| 7.773000                                  | 53.76                | Pk  | 35.8              | -95.2   | -47.43         | -53.07                  | -25         | -28.07      | V        |
| 10.364500                                 | 54.48                | Pk  | 37.4              | -95.2   | -47.18         | -50.50                  | -25         | -25.50      | H        |
| 10.364500                                 | 53.43                | Pk  | 37.4              | -95.2   | -47.18         | -51.55                  | -25         | -26.55      | V        |
| <b>High Channel, 2660.2MHz + 2680MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.336500                                  | 54.37                | Pk  | 34.4              | -95.2   | -48.95         | -55.38                  | -25         | -30.38      | H        |
| 5.336500                                  | 57.11                | Pk  | 34.4              | -95.2   | -48.95         | -52.64                  | -25         | -27.64      | V        |
| 8.005000                                  | 54.15                | Pk  | 35.9              | -95.2   | -46.59         | -51.74                  | -25         | -26.74      | H        |
| 8.005000                                  | 53.07                | Pk  | 35.9              | -95.2   | -46.59         | -52.82                  | -25         | -27.82      | V        |
| 10.673000                                 | 55.58                | Pk  | 37.6              | -95.2   | -45.69         | -47.71                  | -25         | -22.71      | H        |
| 10.673000                                 | 53.20                | Pk  | 37.6              | -95.2   | -45.69         | -50.09                  | -25         | -25.09      | V        |

**ULCA LTE BAND 41 (QPSK 20.0MHZ + 20.0MHZ BANDWIDTH, ANT 4)**

|                |                                 |
|----------------|---------------------------------|
| Date:          | 2025-03-14                      |
| Test Engineer: | 31300                           |
| Configuration: | EUT Only                        |
| Mode:          | FCC ULCA B41C FCC 20+20MHz QPSK |
| Chamber #:     | 04-RDE-P                        |

| Frequency (MHz)                           | Meter Reading (dBuV) | Det | 200897 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) | Polarity |
|-------------------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------------|-------------|----------|
| <b>Low Channel, 2506MHz + 2525.8MHz</b>   |                      |     |                   |         |                |                         |             |             |          |
| 5.029000                                  | 55.95                | Pk  | 33.9              | -95.2   | -49.28         | -54.63                  | -25         | -29.63      | H        |
| 5.028500                                  | 57.11                | Pk  | 33.9              | -95.2   | -49.29         | -53.48                  | -25         | -28.48      | V        |
| 7.543500                                  | 55.16                | Pk  | 35.7              | -95.2   | -47.59         | -51.93                  | -25         | -26.93      | H        |
| 7.543000                                  | 53.82                | Pk  | 35.7              | -95.2   | -47.59         | -53.27                  | -25         | -28.27      | V        |
| 10.055500                                 | 55.55                | Pk  | 37.3              | -95.2   | -48.09         | -50.44                  | -25         | -25.44      | H        |
| 10.056000                                 | 56.50                | Pk  | 37.3              | -95.2   | -48.09         | -49.49                  | -25         | -24.49      | V        |
| <b>Mid Channel, 2583.1MHz + 2602.9MHz</b> |                      |     |                   |         |                |                         |             |             |          |
| 5.183000                                  | 55.73                | Pk  | 34.1              | -95.2   | -48.79         | -54.16                  | -25         | -29.16      | H        |
| 5.182000                                  | 55.46                | Pk  | 34.1              | -95.2   | -48.79         | -54.43                  | -25         | -29.43      | V        |
| 7.773500                                  | 54.32                | Pk  | 35.8              | -95.2   | -47.43         | -52.51                  | -25         | -27.51      | H        |
| 7.773500                                  | 54.26                | Pk  | 35.8              | -95.2   | -47.43         | -52.57                  | -25         | -27.57      | V        |
| 10.362000                                 | 55.95                | Pk  | 37.4              | -95.2   | -47.19         | -49.04                  | -25         | -24.04      | H        |
| 10.363000                                 | 56.47                | Pk  | 37.4              | -95.2   | -47.19         | -48.52                  | -25         | -23.52      | V        |
| <b>High Channel, 2660.2MHz + 2680MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.337500                                  | 54.29                | Pk  | 34.4              | -95.2   | -48.94         | -55.45                  | -25         | -30.45      | H        |
| 5.337500                                  | 55.65                | Pk  | 34.4              | -95.2   | -48.94         | -54.09                  | -25         | -29.09      | V        |
| 8.006000                                  | 53.98                | Pk  | 35.8              | -95.2   | -46.60         | -52.02                  | -25         | -27.02      | H        |
| 8.005500                                  | 54.01                | Pk  | 35.9              | -95.2   | -46.60         | -51.89                  | -25         | -26.89      | V        |
| 10.675500                                 | 53.84                | Pk  | 37.7              | -95.2   | -45.68         | -49.34                  | -25         | -24.34      | H        |
| 10.674500                                 | 54.32                | Pk  | 37.7              | -95.2   | -45.69         | -48.87                  | -25         | -23.87      | V        |

**ULCA LTE BAND 41 (QPSK 20.0MHZ + 20.0MHZ BANDWIDTH, ANT 2)**

|                |                                  |
|----------------|----------------------------------|
| Date:          | 2025-03-15                       |
| Test Engineer: | 31300                            |
| Configuration: | EUT ONLY                         |
| Mode:          | FCC ULCA B41C FCC 20+20 MHz QPSK |
| Chamber #:     | 04-RDE-P                         |

| Frequency (MHz)                           | Meter Reading (dBUV) | Det | 200897 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) | Polarity |
|-------------------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------------|-------------|----------|
| <b>Low Channel, 2506MHz + 2525.8MHz</b>   |                      |     |                   |         |                |                         |             |             |          |
| 5.028500                                  | 55.82                | Pk  | 33.9              | -95.2   | -49.29         | -54.77                  | -25         | -29.77      | H        |
| 5.028000                                  | 55.53                | Pk  | 33.9              | -95.2   | -49.29         | -55.06                  | -25         | -30.06      | V        |
| 7.542000                                  | 53.48                | Pk  | 35.7              | -95.2   | -47.59         | -53.61                  | -25         | -28.61      | H        |
| 7.542000                                  | 53.41                | Pk  | 35.7              | -95.2   | -47.59         | -53.68                  | -25         | -28.68      | V        |
| 10.056000                                 | 55.43                | Pk  | 37.3              | -95.2   | -48.09         | -50.56                  | -25         | -25.56      | H        |
| 10.056000                                 | 56.18                | Pk  | 37.3              | -95.2   | -48.09         | -49.81                  | -25         | -24.81      | V        |
| <b>Mid Channel, 2583.1MHz + 2602.9MHz</b> |                      |     |                   |         |                |                         |             |             |          |
| 5.182000                                  | 54.96                | Pk  | 34.1              | -95.2   | -48.79         | -54.93                  | -25         | -29.93      | H        |
| 5.182500                                  | 55.15                | Pk  | 34.1              | -95.2   | -48.79         | -54.74                  | -25         | -29.74      | V        |
| 7.776000                                  | 55.19                | Pk  | 35.8              | -95.2   | -47.43         | -51.64                  | -25         | -26.64      | H        |
| 7.775000                                  | 55.26                | Pk  | 35.8              | -95.2   | -47.43         | -51.57                  | -25         | -26.57      | V        |
| 10.364000                                 | 54.41                | Pk  | 37.4              | -95.2   | -47.17         | -50.56                  | -25         | -25.56      | H        |
| 10.364000                                 | 55.15                | Pk  | 37.4              | -95.2   | -47.17         | -49.82                  | -25         | -24.82      | V        |
| <b>High Channel, 2660.2MHz + 2680MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.338000                                  | 56.67                | Pk  | 34.4              | -95.2   | -48.93         | -53.06                  | -25         | -28.06      | H        |
| 5.336500                                  | 56.31                | Pk  | 34.4              | -95.2   | -48.95         | -53.44                  | -25         | -28.44      | V        |
| 8.004000                                  | 54.27                | Pk  | 35.9              | -95.2   | -46.60         | -51.63                  | -25         | -26.63      | H        |
| 8.004000                                  | 53.37                | Pk  | 35.9              | -95.2   | -46.60         | -52.53                  | -25         | -27.53      | V        |
| 10.672000                                 | 54.88                | Pk  | 37.6              | -95.2   | -45.71         | -48.43                  | -25         | -23.43      | H        |
| 10.671500                                 | 54.81                | Pk  | 37.6              | -95.2   | -45.72         | -48.51                  | -25         | -23.51      | V        |

**ULCA LTE BAND 41 (QPSK 20.0MHZ + 20.0MHZ BANDWIDTH, ANT 1)**

|                |                                   |
|----------------|-----------------------------------|
| Date:          | 2025-03-18                        |
| Test Engineer: | 31300                             |
| Configuration: | EUT Only                          |
| Mode:          | FCC ULCA B41IC FCC 20+20 MHz QPSK |
| Chamber #:     | 04-RDE-P                          |

| Frequency (MHz)                           | Meter Reading (dBUV) | Det | 200897 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) | Polarity |
|-------------------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------------|-------------|----------|
| <b>Low Channel, 2506MHz + 2525.8MHz</b>   |                      |     |                   |         |                |                         |             |             |          |
| 5.028000                                  | 58.12                | Pk  | 33.9              | -95.2   | -49.29         | -52.47                  | -25         | -27.47      | H        |
| 5.028500                                  | 55.69                | Pk  | 33.9              | -95.2   | -49.29         | -54.90                  | -25         | -29.90      | V        |
| 7.541000                                  | 54.03                | Pk  | 35.7              | -95.2   | -47.58         | -53.05                  | -25         | -28.05      | H        |
| 7.541000                                  | 53.78                | Pk  | 35.7              | -95.2   | -47.58         | -53.30                  | -25         | -28.30      | V        |
| 10.056000                                 | 55.99                | Pk  | 37.3              | -95.2   | -48.09         | -50.00                  | -25         | -25.00      | H        |
| 10.056000                                 | 55.25                | Pk  | 37.3              | -95.2   | -48.09         | -50.74                  | -25         | -25.74      | V        |
| <b>Mid Channel, 2583.1MHz + 2602.9MHz</b> |                      |     |                   |         |                |                         |             |             |          |
| 5.183500                                  | 55.07                | Pk  | 34.1              | -95.2   | -48.80         | -54.83                  | -25         | -29.83      | H        |
| 5.183500                                  | 55.21                | Pk  | 34.1              | -95.2   | -48.80         | -54.69                  | -25         | -29.69      | V        |
| 7.773500                                  | 54.53                | Pk  | 35.8              | -95.2   | -47.43         | -52.30                  | -25         | -27.30      | H        |
| 7.773500                                  | 55.12                | Pk  | 35.8              | -95.2   | -47.43         | -51.71                  | -25         | -26.71      | V        |
| 10.364500                                 | 55.15                | Pk  | 37.4              | -95.2   | -47.18         | -49.83                  | -25         | -24.83      | H        |
| 10.364500                                 | 53.67                | Pk  | 37.4              | -95.2   | -47.18         | -51.31                  | -25         | -26.31      | V        |
| <b>High Channel, 2660.2MHz + 2680MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.338000                                  | 56.51                | Pk  | 34.4              | -95.2   | -48.93         | -53.22                  | -25         | -28.22      | H        |
| 5.337000                                  | 56.66                | Pk  | 34.4              | -95.2   | -48.94         | -53.08                  | -25         | -28.08      | V        |
| 8.004000                                  | 55.35                | Pk  | 35.9              | -95.2   | -46.60         | -50.55                  | -25         | -25.55      | H        |
| 8.003500                                  | 53.22                | Pk  | 35.9              | -95.2   | -46.60         | -52.68                  | -25         | -27.68      | V        |
| 10.672000                                 | 54.42                | Pk  | 37.6              | -95.2   | -45.71         | -48.89                  | -25         | -23.89      | H        |
| 10.672000                                 | 54.88                | Pk  | 37.6              | -95.2   | -45.71         | -48.43                  | -25         | -23.43      | V        |



## 10.1.8. LTE BAND 41 (IC)

### LTE BAND 41 (QPSK 20.0MHZ BANDWIDTH, ANT 3)

|                |                       |
|----------------|-----------------------|
| Date:          | 2025-03-07            |
| Test Engineer: | 31300                 |
| Configuration: | EUT Only              |
| Mode:          | IC LTE B41 20MHz QPSK |
| Chamber #:     | 04-RDE-P              |

| Frequency (MHz)              | Meter Reading (dBuV) | Det | 200897 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------------|-------------|----------|
| <b>Low Channel, 2510MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.021000                     | 56.50                | Pk  | 33.9              | -95.2   | -49.24         | -54.04                  | -25         | -29.04      | H        |
| 5.022500                     | 57.83                | Pk  | 33.9              | -95.2   | -49.25         | -52.72                  | -25         | -27.72      | V        |
| 7.529000                     | 55.57                | Pk  | 35.7              | -95.2   | -47.60         | -51.53                  | -25         | -26.53      | H        |
| 7.530000                     | 55.11                | Pk  | 35.7              | -95.2   | -47.60         | -51.99                  | -25         | -26.99      | V        |
| 10.041000                    | 54.85                | Pk  | 37.3              | -95.2   | -48.11         | -51.16                  | -25         | -26.16      | H        |
| 10.041000                    | 55.31                | Pk  | 37.3              | -95.2   | -48.11         | -50.70                  | -25         | -25.70      | V        |
| <b>Mid Channel, 2595MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.190000                     | 53.85                | Pk  | 34.1              | -95.2   | -48.90         | -56.15                  | -25         | -31.15      | H        |
| 5.190000                     | 55.34                | Pk  | 34.1              | -95.2   | -48.90         | -54.66                  | -25         | -29.66      | V        |
| 7.786500                     | 53.55                | Pk  | 35.8              | -95.2   | -47.42         | -53.27                  | -25         | -28.27      | H        |
| 7.786500                     | 54.90                | Pk  | 35.8              | -95.2   | -47.42         | -51.92                  | -25         | -26.92      | V        |
| 10.380500                    | 55.34                | Pk  | 37.4              | -95.2   | -47.03         | -49.49                  | -25         | -24.49      | H        |
| 10.381000                    | 54.50                | Pk  | 37.4              | -95.2   | -47.02         | -50.32                  | -25         | -25.32      | V        |
| <b>High Channel, 2680MHz</b> |                      |     |                   |         |                |                         |             |             |          |
| 5.360000                     | 55.10                | Pk  | 34.4              | -95.2   | -48.75         | -54.45                  | -25         | -29.45      | H        |
| 5.359500                     | 56.81                | Pk  | 34.4              | -95.2   | -48.75         | -52.74                  | -25         | -27.74      | V        |
| 8.041000                     | 55.36                | Pk  | 35.8              | -95.2   | -46.42         | -50.46                  | -25         | -25.46      | H        |
| 8.041000                     | 53.87                | Pk  | 35.8              | -95.2   | -46.42         | -51.95                  | -25         | -26.95      | V        |
| 10.720500                    | 52.87                | Pk  | 37.7              | -95.2   | -45.50         | -50.13                  | -25         | -25.13      | H        |
| 10.720500                    | 53.44                | Pk  | 37.7              | -95.2   | -45.50         | -49.56                  | -25         | -24.56      | V        |

**LTE BAND 41 (QPSK 20.0MHZ BANDWIDTH, ANT 4)**

|                |                       |
|----------------|-----------------------|
| Date:          | 2025-03-10            |
| Test Engineer: | 31300                 |
| Configuration: | EUT Only              |
| Mode:          | IC LTE B41 20MHz QPSK |
| Chamber #:     | 04-RDE-P              |

| Frequency (MHz)              | Meter Reading (dBuV) | Det | 200897 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------------|-------------|----------|
| <b>Low Channel, 2510MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.020000                     | 56.42                | Pk  | 33.9              | -95.2   | -49.26         | -54.14                  | -25         | -29.14      | H        |
| 5.020000                     | 54.87                | Pk  | 33.9              | -95.2   | -49.26         | -55.69                  | -25         | -30.69      | V        |
| 7.530500                     | 54.08                | Pk  | 35.7              | -95.2   | -47.60         | -53.02                  | -25         | -28.02      | H        |
| 7.530500                     | 53.56                | Pk  | 35.7              | -95.2   | -47.60         | -53.54                  | -25         | -28.54      | V        |
| 10.039500                    | 56.78                | Pk  | 37.3              | -95.2   | -48.09         | -49.21                  | -25         | -24.21      | H        |
| 10.039500                    | 55.41                | Pk  | 37.3              | -95.2   | -48.09         | -50.58                  | -25         | -25.58      | V        |
| <b>Mid Channel, 2595MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.190000                     | 55.97                | Pk  | 34.1              | -95.2   | -48.90         | -54.03                  | -25         | -29.03      | H        |
| 5.190000                     | 54.36                | Pk  | 34.1              | -95.2   | -48.90         | -55.64                  | -25         | -30.64      | V        |
| 7.785000                     | 55.39                | Pk  | 35.8              | -95.2   | -47.43         | -51.44                  | -25         | -26.44      | H        |
| 7.785000                     | 54.30                | Pk  | 35.8              | -95.2   | -47.43         | -52.53                  | -25         | -27.53      | V        |
| 10.380000                    | 54.96                | Pk  | 37.4              | -95.2   | -47.04         | -49.88                  | -25         | -24.88      | H        |
| 10.380000                    | 55.37                | Pk  | 37.4              | -95.2   | -47.04         | -49.47                  | -25         | -24.47      | V        |
| <b>High Channel, 2680MHz</b> |                      |     |                   |         |                |                         |             |             |          |
| 5.360500                     | 54.86                | Pk  | 34.4              | -95.2   | -48.75         | -54.69                  | -25         | -29.69      | H        |
| 5.360500                     | 55.11                | Pk  | 34.4              | -95.2   | -48.75         | -54.44                  | -25         | -29.44      | V        |
| 8.039500                     | 53.95                | Pk  | 35.8              | -95.2   | -46.47         | -51.92                  | -25         | -26.92      | H        |
| 8.039500                     | 53.77                | Pk  | 35.8              | -95.2   | -46.47         | -52.10                  | -25         | -27.10      | V        |
| 10.719500                    | 54.13                | Pk  | 37.7              | -95.2   | -45.50         | -48.87                  | -25         | -23.87      | H        |
| 10.719500                    | 53.30                | Pk  | 37.7              | -95.2   | -45.50         | -49.70                  | -25         | -24.70      | V        |

**LTE BAND 41 (QPSK 20.0MHZ BANDWIDTH, ANT 2)**

|                |                       |
|----------------|-----------------------|
| Date:          | 2025-03-10            |
| Test Engineer: | 31300                 |
| Configuration: | EUT Only              |
| Mode:          | IC LTE B41 20MHz QPSK |
| Chamber #:     | 04-RDE-P              |

| Frequency (MHz)              | Meter Reading (dBUV) | Det | 200897 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------------|-------------|----------|
| <b>Low Channel, 2510MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.020500                     | 54.83                | Pk  | 33.9              | -95.2   | -49.25         | -55.72                  | -25         | -30.72      | H        |
| 5.020500                     | 55.00                | Pk  | 33.9              | -95.2   | -49.25         | -55.55                  | -25         | -30.55      | V        |
| 7.530500                     | 53.79                | Pk  | 35.7              | -95.2   | -47.60         | -53.31                  | -25         | -28.31      | H        |
| 7.530500                     | 53.96                | Pk  | 35.7              | -95.2   | -47.60         | -53.14                  | -25         | -28.14      | V        |
| 10.040000                    | 56.34                | Pk  | 37.3              | -95.2   | -48.09         | -49.65                  | -25         | -24.65      | H        |
| 10.040000                    | 55.01                | Pk  | 37.3              | -95.2   | -48.09         | -50.98                  | -25         | -25.98      | V        |
| <b>Mid Channel, 2595MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.190000                     | 54.40                | Pk  | 34.1              | -95.2   | -48.90         | -55.60                  | -25         | -30.60      | H        |
| 5.190000                     | 55.29                | Pk  | 34.1              | -95.2   | -48.90         | -54.71                  | -25         | -29.71      | V        |
| 7.785500                     | 54.21                | Pk  | 35.8              | -95.2   | -47.43         | -52.62                  | -25         | -27.62      | H        |
| 7.785500                     | 53.65                | Pk  | 35.8              | -95.2   | -47.43         | -53.18                  | -25         | -28.18      | V        |
| 10.380000                    | 53.38                | Pk  | 37.4              | -95.2   | -47.04         | -51.46                  | -25         | -26.46      | H        |
| 10.380000                    | 55.72                | Pk  | 37.4              | -95.2   | -47.04         | -49.12                  | -25         | -24.12      | V        |
| <b>High Channel, 2680MHz</b> |                      |     |                   |         |                |                         |             |             |          |
| 5.360500                     | 55.76                | Pk  | 34.4              | -95.2   | -48.75         | -53.79                  | -25         | -28.79      | H        |
| 5.360500                     | 55.50                | Pk  | 34.4              | -95.2   | -48.75         | -54.05                  | -25         | -29.05      | V        |
| 8.040000                     | 55.10                | Pk  | 35.8              | -95.2   | -46.44         | -50.74                  | -25         | -25.74      | H        |
| 8.040000                     | 52.95                | Pk  | 35.8              | -95.2   | -46.44         | -52.89                  | -25         | -27.89      | V        |
| 10.720000                    | 53.82                | Pk  | 37.7              | -95.2   | -45.50         | -49.18                  | -25         | -24.18      | H        |
| 10.720000                    | 55.48                | Pk  | 37.7              | -95.2   | -45.50         | -47.52                  | -25         | -22.52      | V        |

**LTE BAND 41 (QPSK 20.0MHZ BANDWIDTH, ANT 1)**

|                |                       |
|----------------|-----------------------|
| Date:          | 2025-03-12            |
| Test Engineer: | 25019                 |
| Configuration: | EUT Only              |
| Mode:          | IC LTE B41 20MHz QPSK |
| Chamber #:     | 04-RDE-P              |

| Frequency (MHz)              | Meter Reading (dBuV) | Det | 200897 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------------|-------------|----------|
| <b>Low Channel, 2510MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.000500                     | 55.74                | Pk  | 33.9              | -95.2   | -49.25         | -54.81                  | -25         | -29.81      | H        |
| 5.000500                     | 54.97                | Pk  | 33.9              | -95.2   | -49.25         | -55.58                  | -25         | -30.58      | V        |
| 7.500250                     | 53.89                | Pk  | 35.7              | -95.2   | -47.54         | -53.15                  | -25         | -28.15      | H        |
| 7.500500                     | 53.81                | Pk  | 35.7              | -95.2   | -47.54         | -53.23                  | -25         | -28.23      | V        |
| 10.000000                    | 55.97                | Pk  | 37.2              | -95.2   | -47.47         | -49.50                  | -25         | -24.50      | H        |
| 10.000000                    | 54.17                | Pk  | 37.2              | -95.2   | -47.47         | -51.30                  | -25         | -26.30      | V        |
| <b>Mid Channel, 2595MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.170500                     | 54.60                | Pk  | 34.1              | -95.2   | -48.79         | -55.29                  | -25         | -30.29      | H        |
| 5.170500                     | 54.21                | Pk  | 34.1              | -95.2   | -48.79         | -55.68                  | -25         | -30.68      | V        |
| 7.755500                     | 53.07                | Pk  | 35.8              | -95.2   | -47.44         | -53.77                  | -25         | -28.77      | H        |
| 7.755500                     | 53.80                | Pk  | 35.8              | -95.2   | -47.44         | -53.04                  | -25         | -28.04      | V        |
| 10.340500                    | 53.75                | Pk  | 37.4              | -95.2   | -47.23         | -51.28                  | -25         | -26.28      | H        |
| 10.340500                    | 55.68                | Pk  | 37.4              | -95.2   | -47.23         | -49.35                  | -25         | -24.35      | V        |
| <b>High Channel, 2680MHz</b> |                      |     |                   |         |                |                         |             |             |          |
| 5.340000                     | 54.69                | Pk  | 34.4              | -95.2   | -48.89         | -55.00                  | -25         | -30.00      | H        |
| 5.340000                     | 54.34                | Pk  | 34.4              | -95.2   | -48.89         | -55.35                  | -25         | -30.35      | V        |
| 8.010500                     | 52.98                | Pk  | 35.8              | -95.2   | -46.59         | -53.01                  | -25         | -28.01      | H        |
| 8.010500                     | 52.95                | Pk  | 35.8              | -95.2   | -46.59         | -53.04                  | -25         | -28.04      | V        |
| 10.680500                    | 53.60                | Pk  | 37.7              | -95.2   | -45.64         | -49.54                  | -25         | -24.54      | H        |
| 10.680500                    | 52.83                | Pk  | 37.7              | -95.2   | -45.64         | -50.31                  | -25         | -25.31      | V        |

### 10.1.9. 5G NR n41 (SISO, IC)

#### 5G NR n41 (BPSK 100.0MHZ BANDWIDTH, ANT 3)

|                |                          |
|----------------|--------------------------|
| Date:          | 2025-03-18               |
| Test Engineer: | 26051                    |
| Configuration: | EUT Only                 |
| Mode:          | IC 5G NR n41 100MHz BPSK |
| Chamber #:     | 05-RDE-A                 |

| Frequency (MHz)       | Meter Reading (dBuV) | Det | 200897 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) | Polarity |
|-----------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------------|-------------|----------|
| Low Channel, 2550MHz  |                      |     |                   |         |                |                         |             |             |          |
| 5.098500              | 55.98                | Pk  | 34.3              | -95.2   | -47.30         | -52.22                  | -25         | -27.22      | H        |
| 5.103500              | 56.42                | Pk  | 34.3              | -95.2   | -47.30         | -51.78                  | -25         | -26.78      | V        |
| 7.639000              | 54.51                | Pk  | 35.8              | -95.2   | -45.00         | -49.89                  | -25         | -24.89      | H        |
| 7.655500              | 53.54                | Pk  | 35.8              | -95.2   | -44.85         | -50.71                  | -25         | -25.71      | V        |
| 10.206000             | 53.89                | Pk  | 37.6              | -95.2   | -44.10         | -47.81                  | -25         | -22.81      | H        |
| 10.204500             | 54.64                | Pk  | 37.6              | -95.2   | -44.05         | -47.01                  | -25         | -22.01      | V        |
| Mid Channel, 2595MHz  |                      |     |                   |         |                |                         |             |             |          |
| 5.184000              | 55.40                | Pk  | 34.4              | -95.2   | -47.00         | -52.40                  | -25         | -27.40      | H        |
| 5.198500              | 55.29                | Pk  | 34.4              | -95.2   | -46.90         | -52.41                  | -25         | -27.41      | V        |
| 7.799500              | 53.13                | Pk  | 35.8              | -95.2   | -44.40         | -50.67                  | -25         | -25.67      | H        |
| 7.796500              | 53.33                | Pk  | 35.8              | -95.2   | -44.40         | -50.47                  | -25         | -25.47      | V        |
| 10.364500             | 54.10                | Pk  | 37.8              | -95.2   | -43.45         | -46.75                  | -25         | -21.75      | H        |
| 10.360500             | 54.09                | Pk  | 37.8              | -95.2   | -43.35         | -46.66                  | -25         | -21.66      | V        |
| High Channel, 2640MHz |                      |     |                   |         |                |                         |             |             |          |
| 5.284000              | 56.00                | Pk  | 34.6              | -95.2   | -46.80         | -51.40                  | -25         | -26.40      | H        |
| 5.291500              | 55.04                | Pk  | 34.6              | -95.2   | -47.00         | -52.56                  | -25         | -27.56      | V        |
| 7.922000              | 53.09                | Pk  | 35.8              | -95.2   | -44.30         | -50.61                  | -25         | -25.61      | H        |
| 7.927500              | 53.02                | Pk  | 35.8              | -95.2   | -44.15         | -50.53                  | -25         | -25.53      | V        |
| 10.563000             | 53.40                | Pk  | 37.8              | -95.2   | -43.10         | -47.10                  | -25         | -22.10      | H        |
| 10.571000             | 53.18                | Pk  | 37.8              | -95.2   | -43.30         | -47.52                  | -25         | -22.52      | V        |

**5G NR n41 (BPSK 100.0MHZ BANDWIDTH, ANT 4)**

|                |                          |
|----------------|--------------------------|
| Date:          | 2025-03-18               |
| Test Engineer: | 25196                    |
| Configuration: | EUT ONLY                 |
| Mode:          | IC 5G NR n41 100MHz BPSK |
| Chamber #:     | 05-RDE-A                 |

| Frequency (MHz)              | Meter Reading (dBuV) | Det | 80403 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|------------------|---------|----------------|-------------------------|-------------|-------------|----------|
| <b>Low Channel, 2550MHz</b>  |                      |     |                  |         |                |                         |             |             |          |
| 5.099500                     | 55.40                | Pk  | 34.3             | -95.2   | -47.30         | -52.80                  | -25         | -27.80      | H        |
| 5.095000                     | 55.92                | Pk  | 34.3             | -95.2   | -47.40         | -52.38                  | -25         | -27.38      | V        |
| 7.643500                     | 54.41                | Pk  | 35.8             | -95.2   | -44.95         | -49.94                  | -25         | -24.94      | H        |
| 7.642500                     | 53.55                | Pk  | 35.8             | -95.2   | -45.00         | -50.85                  | -25         | -25.85      | V        |
| 10.178000                    | 53.27                | Pk  | 37.6             | -95.2   | -44.30         | -48.63                  | -25         | -23.63      | H        |
| 10.181000                    | 54.25                | Pk  | 37.6             | -95.2   | -44.30         | -47.65                  | -25         | -22.65      | V        |
| <b>Mid Channel, 2595MHz</b>  |                      |     |                  |         |                |                         |             |             |          |
| 5.202500                     | 54.73                | Pk  | 34.4             | -95.2   | -47.00         | -53.07                  | -25         | -28.07      | H        |
| 5.205000                     | 55.24                | Pk  | 34.5             | -95.2   | -47.00         | -52.46                  | -25         | -27.46      | V        |
| 7.788500                     | 53.13                | Pk  | 35.8             | -95.2   | -44.25         | -50.52                  | -25         | -25.52      | H        |
| 7.788500                     | 53.23                | Pk  | 35.8             | -95.2   | -44.25         | -50.42                  | -25         | -25.42      | V        |
| 10.375500                    | 53.67                | Pk  | 37.8             | -95.2   | -43.90         | -47.63                  | -25         | -22.63      | H        |
| 10.374000                    | 54.37                | Pk  | 37.8             | -95.2   | -43.90         | -46.93                  | -25         | -21.93      | V        |
| <b>High Channel, 2640MHz</b> |                      |     |                  |         |                |                         |             |             |          |
| 5.274000                     | 55.00                | Pk  | 34.5             | -95.2   | -47.10         | -52.80                  | -25         | -27.80      | H        |
| 5.277000                     | 55.54                | Pk  | 34.6             | -95.2   | -46.90         | -51.96                  | -25         | -26.96      | V        |
| 7.923500                     | 52.43                | Pk  | 35.8             | -95.2   | -44.20         | -51.17                  | -25         | -26.17      | H        |
| 7.925000                     | 52.17                | Pk  | 35.8             | -95.2   | -44.20         | -51.43                  | -25         | -26.43      | V        |
| 10.552000                    | 52.52                | Pk  | 37.8             | -95.2   | -43.30         | -48.18                  | -25         | -23.18      | H        |
| 10.553000                    | 53.74                | Pk  | 37.8             | -95.2   | -43.30         | -46.96                  | -25         | -21.96      | V        |

**5G NR n41 (BPSK 100.0MHZ BANDWIDTH, ANT 2)**

|                |                          |
|----------------|--------------------------|
| Date:          | 2025-03-18               |
| Test Engineer: | 25196                    |
| Configuration: | EUT ONLY                 |
| Mode:          | IC 5G NR n41 100MHz BPSK |
| Chamber #:     | 05-RDE-A                 |

| Frequency (MHz)              | Meter Reading (dBuV) | Det | 80403 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|------------------|---------|----------------|-------------------------|-------------|-------------|----------|
| <b>Low Channel, 2550MHz</b>  |                      |     |                  |         |                |                         |             |             |          |
| 5.099500                     | 55.40                | Pk  | 34.3             | -95.2   | -47.30         | -52.80                  | -25         | -27.80      | H        |
| 5.095000                     | 55.92                | Pk  | 34.3             | -95.2   | -47.40         | -52.38                  | -25         | -27.38      | V        |
| 7.643500                     | 54.41                | Pk  | 35.8             | -95.2   | -44.95         | -49.94                  | -25         | -24.94      | H        |
| 7.642500                     | 53.55                | Pk  | 35.8             | -95.2   | -45.00         | -50.85                  | -25         | -25.85      | V        |
| 10.178000                    | 53.27                | Pk  | 37.6             | -95.2   | -44.30         | -48.63                  | -25         | -23.63      | H        |
| 10.181000                    | 54.25                | Pk  | 37.6             | -95.2   | -44.30         | -47.65                  | -25         | -22.65      | V        |
| <b>Mid Channel, 2595MHz</b>  |                      |     |                  |         |                |                         |             |             |          |
| 5.202500                     | 54.73                | Pk  | 34.4             | -95.2   | -47.00         | -53.07                  | -25         | -28.07      | H        |
| 5.205000                     | 55.24                | Pk  | 34.5             | -95.2   | -47.00         | -52.46                  | -25         | -27.46      | V        |
| 7.788500                     | 53.13                | Pk  | 35.8             | -95.2   | -44.25         | -50.52                  | -25         | -25.52      | H        |
| 7.788500                     | 53.23                | Pk  | 35.8             | -95.2   | -44.25         | -50.42                  | -25         | -25.42      | V        |
| 10.375500                    | 53.67                | Pk  | 37.8             | -95.2   | -43.90         | -47.63                  | -25         | -22.63      | H        |
| 10.374000                    | 54.37                | Pk  | 37.8             | -95.2   | -43.90         | -46.93                  | -25         | -21.93      | V        |
| <b>High Channel, 2640MHz</b> |                      |     |                  |         |                |                         |             |             |          |
| 5.274000                     | 55.00                | Pk  | 34.5             | -95.2   | -47.10         | -52.80                  | -25         | -27.80      | H        |
| 5.277000                     | 55.54                | Pk  | 34.6             | -95.2   | -46.90         | -51.96                  | -25         | -26.96      | V        |
| 7.923500                     | 52.43                | Pk  | 35.8             | -95.2   | -44.20         | -51.17                  | -25         | -26.17      | H        |
| 7.925000                     | 52.17                | Pk  | 35.8             | -95.2   | -44.20         | -51.43                  | -25         | -26.43      | V        |
| 10.552000                    | 52.52                | Pk  | 37.8             | -95.2   | -43.30         | -48.18                  | -25         | -23.18      | H        |
| 10.553000                    | 53.74                | Pk  | 37.8             | -95.2   | -43.30         | -46.96                  | -25         | -21.96      | V        |

**5G NR n41 (BPSK 100.0MHZ BANDWIDTH, ANT 1)**

|                |                          |
|----------------|--------------------------|
| Date:          | 2025-03-18               |
| Test Engineer: | 25196                    |
| Configuration: | EUT ONLY                 |
| Mode:          | IC 5G NR n41 100MHz BPSK |
| Chamber #:     | 05-RDE-A                 |

| Frequency (MHz)              | Meter Reading (dBuV) | Det | 80403 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) | Polarity |
|------------------------------|----------------------|-----|------------------|---------|----------------|-------------------------|-------------|-------------|----------|
| <b>Low Channel, 2550MHz</b>  |                      |     |                  |         |                |                         |             |             |          |
| 5.099000                     | 55.77                | Pk  | 34.3             | -95.2   | -47.30         | -52.43                  | -25         | -27.43      | H        |
| 5.097500                     | 55.65                | Pk  | 34.3             | -95.2   | -47.30         | -52.55                  | -25         | -27.55      | V        |
| 7.642000                     | 52.99                | Pk  | 35.8             | -95.2   | -45.00         | -51.41                  | -25         | -26.41      | H        |
| 7.641500                     | 52.50                | Pk  | 35.8             | -95.2   | -45.00         | -51.90                  | -25         | -26.90      | V        |
| 10.213000                    | 54.28                | Pk  | 37.6             | -95.2   | -44.20         | -47.52                  | -25         | -22.52      | H        |
| 10.217000                    | 54.22                | Pk  | 37.6             | -95.2   | -44.10         | -47.48                  | -25         | -22.48      | V        |
| <b>Mid Channel, 2595MHz</b>  |                      |     |                  |         |                |                         |             |             |          |
| 5.184500                     | 55.14                | Pk  | 34.4             | -95.2   | -46.95         | -52.61                  | -25         | -27.61      | H        |
| 5.185000                     | 54.84                | Pk  | 34.4             | -95.2   | -46.90         | -52.86                  | -25         | -27.86      | V        |
| 7.786000                     | 52.43                | Pk  | 35.8             | -95.2   | -44.10         | -51.07                  | -25         | -26.07      | H        |
| 7.791000                     | 53.07                | Pk  | 35.8             | -95.2   | -44.30         | -50.63                  | -25         | -25.63      | V        |
| 10.390500                    | 53.30                | Pk  | 37.8             | -95.2   | -43.50         | -47.60                  | -25         | -22.60      | H        |
| 10.389000                    | 52.75                | Pk  | 37.8             | -95.2   | -43.50         | -48.15                  | -25         | -23.15      | V        |
| <b>High Channel, 2640MHz</b> |                      |     |                  |         |                |                         |             |             |          |
| 5.275000                     | 54.82                | Pk  | 34.5             | -95.2   | -47.00         | -52.88                  | -25         | -27.88      | H        |
| 5.273500                     | 54.68                | Pk  | 34.5             | -95.2   | -47.15         | -53.17                  | -25         | -28.17      | V        |
| 7.920500                     | 52.26                | Pk  | 35.8             | -95.2   | -44.30         | -51.44                  | -25         | -26.44      | H        |
| 7.925500                     | 51.87                | Pk  | 35.8             | -95.2   | -44.20         | -51.73                  | -25         | -26.73      | V        |
| 10.571000                    | 53.98                | Pk  | 37.8             | -95.2   | -43.30         | -46.72                  | -25         | -21.72      | H        |
| 10.572000                    | 53.19                | Pk  | 37.8             | -95.2   | -43.40         | -47.61                  | -25         | -22.61      | V        |



## 10.1.10. ULCA LTE BAND 41 (IC)

### ULCA LTE BAND 41 (QPSK 20.0MHZ + 20.0MHZ BANDWIDTH, ANT 3)

|                |                           |
|----------------|---------------------------|
| Date:          | 2025-03-12                |
| Test Engineer: | 25019                     |
| Configuration: | EUT ONLY                  |
| Mode:          | IC ULCA B41 20+20MHz QPSK |
| Chamber #:     | 04-RDE-P                  |

| Frequency (MHz)                           | Meter Reading (dBuV) | Det | 80403 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) | Polarity |
|-------------------------------------------|----------------------|-----|------------------|---------|----------------|-------------------------|-------------|-------------|----------|
| <b>Low Channel, 2510MHz + 2529.8MHz</b>   |                      |     |                  |         |                |                         |             |             |          |
| 5.035500                                  | 56.85                | Pk  | 33.9             | -95.2   | -49.23         | -53.68                  | -25         | -28.68      | H        |
| 5.035500                                  | 54.30                | Pk  | 33.9             | -95.2   | -49.23         | -56.23                  | -25         | -31.23      | V        |
| 7.554000                                  | 54.07                | Pk  | 35.7             | -95.2   | -47.65         | -53.08                  | -25         | -28.08      | H        |
| 7.554000                                  | 55.99                | Pk  | 35.7             | -95.2   | -47.65         | -51.16                  | -25         | -26.16      | V        |
| 10.072000                                 | 55.49                | Pk  | 37.3             | -95.2   | -48.05         | -50.46                  | -25         | -25.46      | H        |
| 10.072000                                 | 56.43                | Pk  | 37.3             | -95.2   | -48.05         | -49.52                  | -25         | -24.52      | V        |
| <b>Mid Channel, 2585.1MHz + 2604.9MHz</b> |                      |     |                  |         |                |                         |             |             |          |
| 5.184500                                  | 55.14                | Pk  | 34.4             | -95.2   | -46.95         | -52.61                  | -25         | -27.61      | H        |
| 5.185000                                  | 54.84                | Pk  | 34.4             | -95.2   | -46.90         | -52.86                  | -25         | -27.86      | V        |
| 7.786000                                  | 52.43                | Pk  | 35.8             | -95.2   | -44.10         | -51.07                  | -25         | -26.07      | H        |
| 7.791000                                  | 53.07                | Pk  | 35.8             | -95.2   | -44.30         | -50.63                  | -25         | -25.63      | V        |
| 10.390500                                 | 53.30                | Pk  | 37.8             | -95.2   | -43.50         | -47.60                  | -25         | -22.60      | H        |
| 10.389000                                 | 52.75                | Pk  | 37.8             | -95.2   | -43.50         | -48.15                  | -25         | -23.15      | V        |
| <b>High Channel, 2660.2MHz + 2680MHz</b>  |                      |     |                  |         |                |                         |             |             |          |
| 5.336500                                  | 54.37                | Pk  | 34.4             | -95.2   | -48.95         | -55.38                  | -25         | -30.38      | H        |
| 5.336500                                  | 57.11                | Pk  | 34.4             | -95.2   | -48.95         | -52.64                  | -25         | -27.64      | V        |
| 8.005000                                  | 54.15                | Pk  | 35.9             | -95.2   | -46.59         | -51.74                  | -25         | -26.74      | H        |
| 8.005000                                  | 53.07                | Pk  | 35.9             | -95.2   | -46.59         | -52.82                  | -25         | -27.82      | V        |
| 10.673000                                 | 55.58                | Pk  | 37.6             | -95.2   | -45.69         | -47.71                  | -25         | -22.71      | H        |
| 10.673000                                 | 53.20                | Pk  | 37.6             | -95.2   | -45.69         | -50.09                  | -25         | -25.09      | V        |

**ULCA LTE BAND 41 (QPSK 20.0MHZ + 20.0MHZ BANDWIDTH, ANT 4)**

|                |                                |
|----------------|--------------------------------|
| Date:          | 2025-03-14                     |
| Test Engineer: | 31300                          |
| Configuration: | EUT ONLY                       |
| Mode:          | IC ULCA B41C IC 20+20 MHz QPSK |
| Chamber #:     | 04-RDE-P                       |

| Frequency (MHz)                           | Meter Reading (dBuV) | Det | 200897 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) | Polarity |
|-------------------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------------|-------------|----------|
| <b>Low Channel, 2510MHz + 2529.8MHz</b>   |                      |     |                   |         |                |                         |             |             |          |
| 5.036000                                  | 55.58                | Pk  | 33.9              | -95.2   | -49.23         | -54.95                  | -25         | -29.95      | H        |
| 5.036000                                  | 56.12                | Pk  | 33.9              | -95.2   | -49.23         | -54.41                  | -25         | -29.41      | V        |
| 7.549000                                  | 55.16                | Pk  | 35.7              | -95.2   | -47.62         | -51.96                  | -25         | -26.96      | H        |
| 7.554000                                  | 56.01                | Pk  | 35.7              | -95.2   | -47.65         | -51.14                  | -25         | -26.14      | V        |
| 10.072000                                 | 56.68                | Pk  | 37.3              | -95.2   | -48.05         | -49.27                  | -25         | -24.27      | H        |
| 10.072000                                 | 57.16                | Pk  | 37.3              | -95.2   | -48.05         | -48.79                  | -25         | -23.79      | V        |
| <b>Mid Channel, 2585.1MHz + 2604.9MHz</b> |                      |     |                   |         |                |                         |             |             |          |
| 5.186500                                  | 55.74                | Pk  | 34.1              | -95.2   | -48.85         | -54.21                  | -25         | -29.21      | H        |
| 5.185500                                  | 56.28                | Pk  | 34.1              | -95.2   | -48.83         | -53.65                  | -25         | -28.65      | V        |
| 7.778500                                  | 54.11                | Pk  | 35.8              | -95.2   | -47.45         | -52.74                  | -25         | -27.74      | H        |
| 7.778500                                  | 55.82                | Pk  | 35.8              | -95.2   | -47.45         | -51.03                  | -25         | -26.03      | V        |
| 10.374500                                 | 54.42                | Pk  | 37.4              | -95.2   | -47.11         | -50.49                  | -25         | -25.49      | H        |
| 10.374000                                 | 54.93                | Pk  | 37.4              | -95.2   | -47.10         | -49.97                  | -25         | -24.97      | V        |
| <b>High Channel, 2660.2MHz + 2680MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.337500                                  | 54.29                | Pk  | 34.4              | -95.2   | -48.94         | -55.45                  | -25         | -30.45      | H        |
| 5.337500                                  | 55.65                | Pk  | 34.4              | -95.2   | -48.94         | -54.09                  | -25         | -29.09      | V        |
| 8.006000                                  | 53.98                | Pk  | 35.8              | -95.2   | -46.60         | -52.02                  | -25         | -27.02      | H        |
| 8.005500                                  | 54.01                | Pk  | 35.9              | -95.2   | -46.60         | -51.89                  | -25         | -26.89      | V        |
| 10.675500                                 | 53.84                | Pk  | 37.7              | -95.2   | -45.68         | -49.34                  | -25         | -24.34      | H        |
| 10.674500                                 | 54.32                | Pk  | 37.7              | -95.2   | -45.69         | -48.87                  | -25         | -23.87      | V        |

**ULCA LTE BAND 41 (QPSK 20.0MHZ + 20.0MHZ BANDWIDTH, ANT 2)**

|                |                                |
|----------------|--------------------------------|
| Date:          | 2025-03-15                     |
| Test Engineer: | 31300                          |
| Configuration: | EUT ONLY                       |
| Mode:          | IC ULCA B41C IC 20+20 MHz QPSK |
| Chamber #:     | 04-RDE-P                       |

| Frequency (MHz)                           | Meter Reading (dBuV) | Det | 200897 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) | Polarity |
|-------------------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------------|-------------|----------|
| <b>Low Channel, 2510MHz + 2529.8MHz</b>   |                      |     |                   |         |                |                         |             |             |          |
| 5.036500                                  | 55.11                | Pk  | 33.9              | -95.2   | -49.24         | -55.43                  | -25         | -30.43      | H        |
| 5.036000                                  | 55.93                | Pk  | 33.9              | -95.2   | -49.23         | -54.60                  | -25         | -29.60      | V        |
| 7.555500                                  | 55.11                | Pk  | 35.7              | -95.2   | -47.65         | -52.04                  | -25         | -27.04      | H        |
| 7.555500                                  | 54.58                | Pk  | 35.7              | -95.2   | -47.65         | -52.57                  | -25         | -27.57      | V        |
| 10.072000                                 | 57.52                | Pk  | 37.3              | -95.2   | -48.05         | -48.43                  | -25         | -23.43      | H        |
| 10.072000                                 | 55.25                | Pk  | 37.3              | -95.2   | -48.05         | -50.70                  | -25         | -25.70      | V        |
| <b>Mid Channel, 2585.1MHz + 2604.9MHz</b> |                      |     |                   |         |                |                         |             |             |          |
| 5.186500                                  | 55.08                | Pk  | 34.1              | -95.2   | -48.85         | -54.87                  | -25         | -29.87      | H        |
| 5.186000                                  | 55.50                | Pk  | 34.1              | -95.2   | -48.83         | -54.43                  | -25         | -29.43      | V        |
| 7.779500                                  | 54.35                | Pk  | 35.8              | -95.2   | -47.44         | -52.49                  | -25         | -27.49      | H        |
| 7.779500                                  | 53.91                | Pk  | 35.8              | -95.2   | -47.44         | -52.93                  | -25         | -27.93      | V        |
| 10.372000                                 | 55.82                | Pk  | 37.4              | -95.2   | -47.13         | -49.11                  | -25         | -24.11      | H        |
| 10.372500                                 | 55.11                | Pk  | 37.4              | -95.2   | -47.13         | -49.82                  | -25         | -24.82      | V        |
| <b>High Channel, 2660.2MHz + 2680MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.338000                                  | 56.67                | Pk  | 34.4              | -95.2   | -48.93         | -53.06                  | -25         | -28.06      | H        |
| 5.336500                                  | 56.31                | Pk  | 34.4              | -95.2   | -48.95         | -53.44                  | -25         | -28.44      | V        |
| 8.004000                                  | 54.27                | Pk  | 35.9              | -95.2   | -46.60         | -51.63                  | -25         | -26.63      | H        |
| 8.004000                                  | 53.37                | Pk  | 35.9              | -95.2   | -46.60         | -52.53                  | -25         | -27.53      | V        |
| 10.672000                                 | 54.88                | Pk  | 37.6              | -95.2   | -45.71         | -48.43                  | -25         | -23.43      | H        |
| 10.671500                                 | 54.81                | Pk  | 37.6              | -95.2   | -45.72         | -48.51                  | -25         | -23.51      | V        |

**ULCA LTE BAND 41 (QPSK 20.0MHZ + 20.0MHZ BANDWIDTH, ANT 1)**

|                |                                |
|----------------|--------------------------------|
| Date:          | 2025-03-18                     |
| Test Engineer: | 31300                          |
| Configuration: | EUT ONLY                       |
| Mode:          | IC ULCA B41C IC 20+20 MHz QPSK |
| Chamber #:     | 04-RDE-P                       |

| Frequency (MHz)                           | Meter Reading (dBuV) | Det | 200897 ACF (dB/m) | EIRP CF | Gain/Loss (dB) | Corrected Reading (dBm) | Limit (dBm) | Margin (dB) | Polarity |
|-------------------------------------------|----------------------|-----|-------------------|---------|----------------|-------------------------|-------------|-------------|----------|
| <b>Low Channel, 2510MHz + 2529.8MHz</b>   |                      |     |                   |         |                |                         |             |             |          |
| 5.034500                                  | 57.68                | Pk  | 33.9              | -95.2   | -49.24         | -52.86                  | -25         | -27.86      | H        |
| 5.036000                                  | 56.54                | Pk  | 33.9              | -95.2   | -49.23         | -53.99                  | -25         | -28.99      | V        |
| 7.556000                                  | 55.09                | Pk  | 35.7              | -95.2   | -47.65         | -52.06                  | -25         | -27.06      | H        |
| 7.553500                                  | 54.94                | Pk  | 35.7              | -95.2   | -47.66         | -52.22                  | -25         | -27.22      | V        |
| 10.073000                                 | 55.77                | Pk  | 37.3              | -95.2   | -48.05         | -50.18                  | -25         | -25.18      | H        |
| 10.073000                                 | 55.95                | Pk  | 37.3              | -95.2   | -48.05         | -50.00                  | -25         | -25.00      | V        |
| <b>Mid Channel, 2585.1MHz + 2604.9MHz</b> |                      |     |                   |         |                |                         |             |             |          |
| 5.186500                                  | 55.98                | Pk  | 34.1              | -95.2   | -48.85         | -53.97                  | -25         | -28.97      | H        |
| 5.185500                                  | 55.28                | Pk  | 34.1              | -95.2   | -48.83         | -54.65                  | -25         | -29.65      | V        |
| 7.779000                                  | 54.81                | Pk  | 35.8              | -95.2   | -47.44         | -52.03                  | -25         | -27.03      | H        |
| 7.778500                                  | 54.30                | Pk  | 35.8              | -95.2   | -47.45         | -52.55                  | -25         | -27.55      | V        |
| 10.372500                                 | 54.73                | Pk  | 37.4              | -95.2   | -47.13         | -50.20                  | -25         | -25.20      | H        |
| 10.372500                                 | 55.16                | Pk  | 37.4              | -95.2   | -47.13         | -49.77                  | -25         | -24.77      | V        |
| <b>High Channel, 2660.2MHz + 2680MHz</b>  |                      |     |                   |         |                |                         |             |             |          |
| 5.338000                                  | 56.51                | Pk  | 34.4              | -95.2   | -48.93         | -53.22                  | -25         | -28.22      | H        |
| 5.337000                                  | 56.66                | Pk  | 34.4              | -95.2   | -48.94         | -53.08                  | -25         | -28.08      | V        |
| 8.004000                                  | 55.35                | Pk  | 35.9              | -95.2   | -46.60         | -50.55                  | -25         | -25.55      | H        |
| 8.003500                                  | 53.22                | Pk  | 35.9              | -95.2   | -46.60         | -52.68                  | -25         | -27.68      | V        |
| 10.672000                                 | 54.42                | Pk  | 37.6              | -95.2   | -45.71         | -48.89                  | -25         | -23.89      | H        |
| 10.672000                                 | 54.88                | Pk  | 37.6              | -95.2   | -45.71         | -48.43                  | -25         | -23.43      | V        |

## 11. SETUP PHOTOS

Refer to 15496224 -EP1V1 for setup photos.

**END OF REPORT**