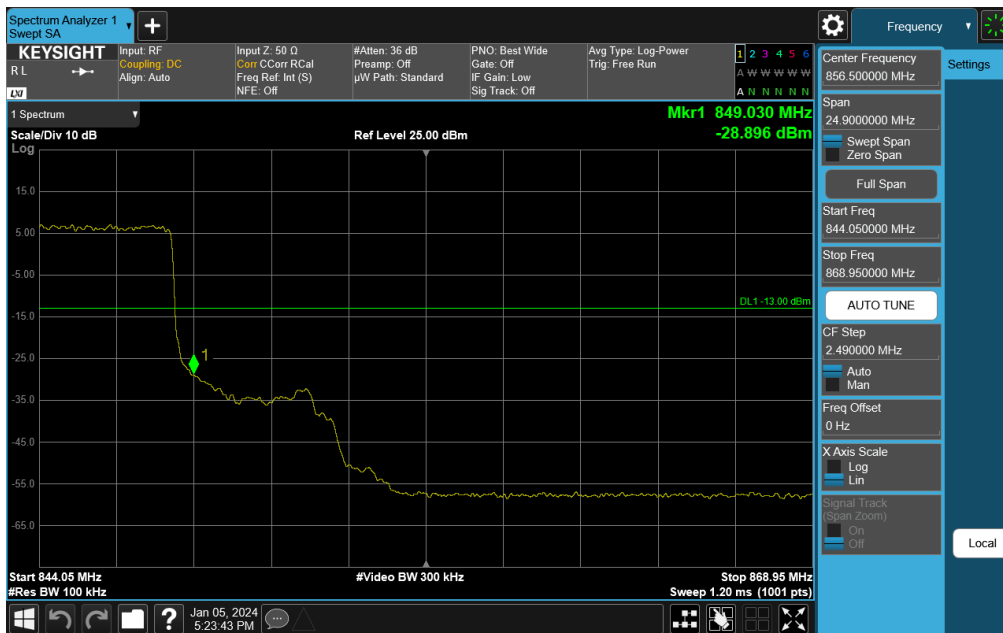
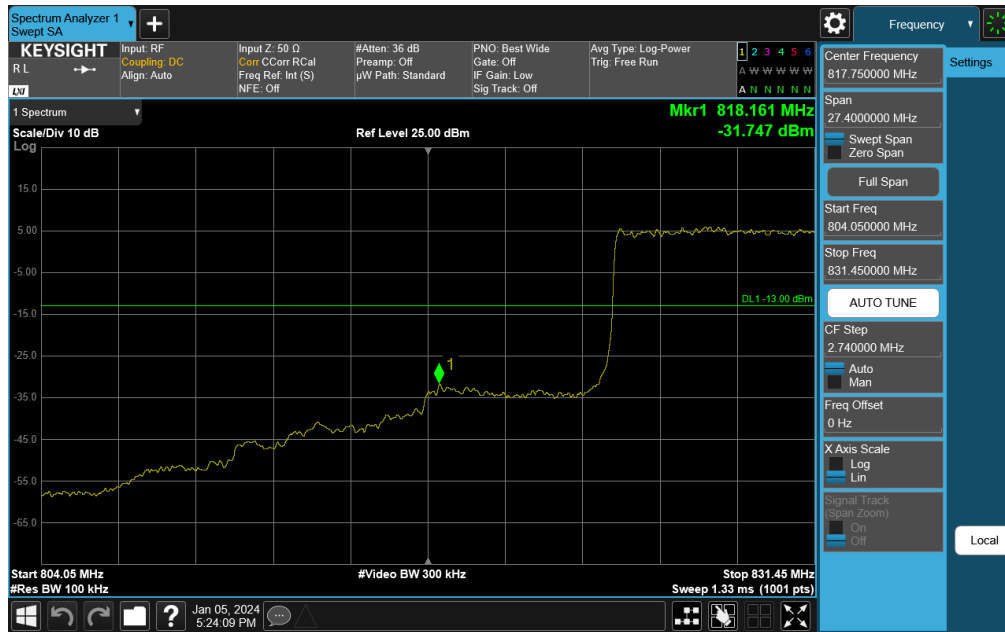


**Plot 7-106. Lower BE Plot (NR Band n5 DFT-s-OFDM QPSK – 10.0MHz - Full RB)**

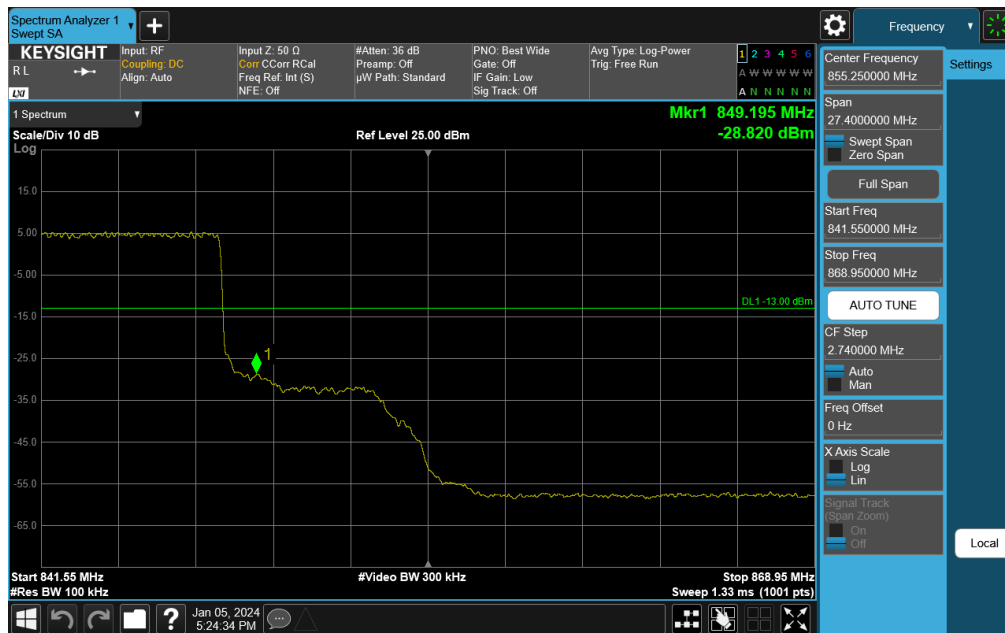


**Plot 7-107. Upper BE Plot (NR Band n5 DFT-s-OFDM QPSK – 10.0MHz - Full RB)**

|   |                                      |                                   |
|---|--------------------------------------|-----------------------------------|
| FCC ID: BCGA2903                        | PART 22 MEASUREMENT REPORT           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2311270064-07.BCG | Test Dates:<br>10/1/2023 - 3/21/2024 | EUT Type:<br>Tablet Device        |
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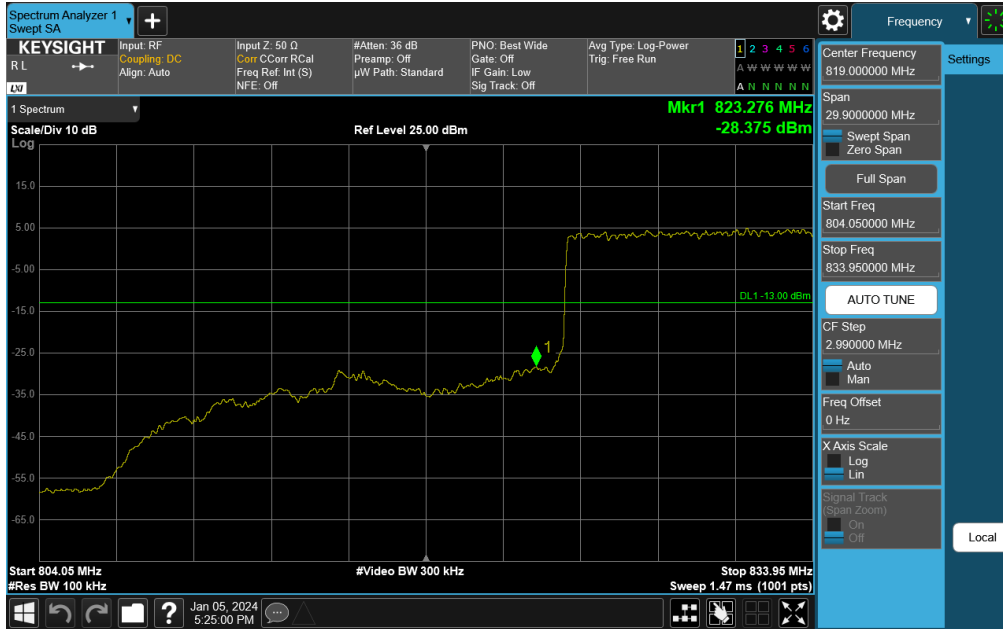


Plot 7-108. Lower BE Plot (NR Band n5 DFT-s-OFDM QPSK – 15.0MHz - Full RB)

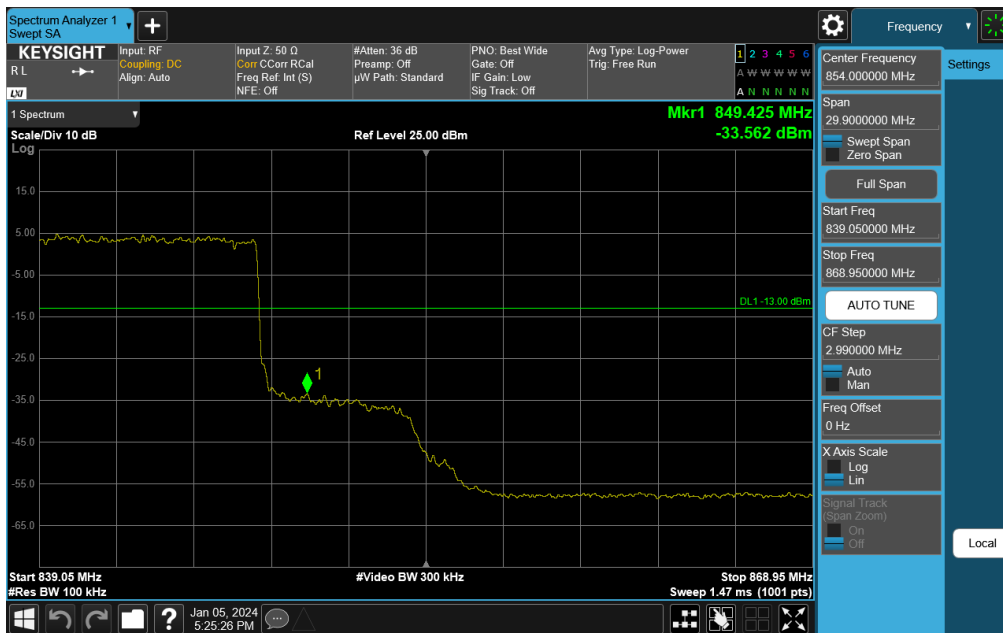


Plot 7-109. Upper BE Plot (NR Band n5 DFT-s-OFDM QPSK – 15.0MHz - Full RB)

|   |                                      |                                   |
|---|--------------------------------------|-----------------------------------|
| FCC ID: BCGA2903                        | PART 22 MEASUREMENT REPORT           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2311270064-07.BCG | Test Dates:<br>10/1/2023 - 3/21/2024 | EUT Type:<br>Tablet Device        |
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Plot 7-110. Lower BE Plot (NR Band n5 DFT-s-OFDM QPSK – 20.0MHz - Full RB)



Plot 7-111. Upper BE Plot (NR Band n5 DFT-s-OFDM QPSK – 20.0MHz - Full RB)

|   |                                      |                                   |
|---|--------------------------------------|-----------------------------------|
| FCC ID: BCGA2903                        | PART 22 MEASUREMENT REPORT           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2311270064-07.BCG | Test Dates:<br>10/1/2023 - 3/21/2024 | EUT Type:<br>Tablet Device        |
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# WCDMA Cell



Plot 7-112. Lower BE Plot (WCDMA Cell – Ch. 4132)



Plot 7-113. Upper BE Plot (WCDMA Cell – Ch. 4233)

|   |                                      |                                   |
|---|--------------------------------------|-----------------------------------|
| FCC ID: BCGA2903                        | PART 22 MEASUREMENT REPORT           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2311270064-07.BCG | Test Dates:<br>10/1/2023 - 3/21/2024 | EUT Type:<br>Tablet Device        |
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## 7.5 Radiated Power (ERP)

§22.913(a)(5)

### Test Overview

Effective Radiated Power (ERP) measurements are calculated by adding highest antenna gain to maximum measured conducted output power. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

### Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.2.1  
ANSI C63.26-2015 – Section 5.2.5.5

### Test Settings

The relevant equation for determining the ERP or EIRP from the conducted RF output power measured is:

$$ERP = P_{Meas} - LC + GT$$

Where:

ERP = Effective Radiated Power, respectively (expressed in the same units as P<sub>Meas</sub>, typically dBW or dBm)

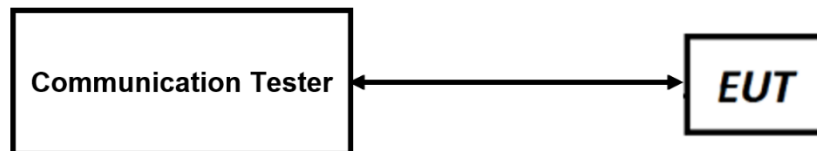
P<sub>Meas</sub> = measured transmitter output power or PSD, in dBW or dBm

LC = signal attenuation in the connecting cable between the transmitter and antenna in dB


GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

### Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.




**Figure 7-4. ERP/EIRP Measurement Setup**

|   |   |                            |                                   |
|---|---|----------------------------|-----------------------------------|
| FCC ID: BCGA2903                        |  | PART 22 MEASUREMENT REPORT | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2311270064-07.BCG | Test Dates:<br>10/1/2023 - 3/21/2024  | EUT Type:<br>Tablet Device | Page 78 of 109                    |

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**Test Notes:**

1. The EUT was tested in all possible test configurations. The worst case emissions are reported with the EUT modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
2. This unit was tested with its standard battery.
3. The Level (dBm) readings in the table were taken with a correction table loaded into the base station simulator. The correction table was used to account for the signal attenuation in the connecting cable between the transmitter and antenna.
4. Uplink carrier aggregation for LTE B5 is only supported in this EUT while operating in Power Class 3.
5. Conducted power measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. Channel bandwidth data is shown in the tables below based only on the channel bandwidths that were supported in this device.
6. The Ant. Gains (GT) are listed in dBi.

|  |   |                                   |  |
|--|---|-----------------------------------|--|
| <b>FCC ID:</b> BCGA2903                        |  <b>PART 22 MEASUREMENT REPORT</b> |                                   | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1C2311270064-07.BCG | <b>Test Dates:</b><br>10/1/2023 - 3/21/2024   | <b>EUT Type:</b><br>Tablet Device | Page 79 of 109                           |


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## 7.5.1 Antenna 4 – ERP

### LTE Band 26

| Bandwidth | Mod.    | Frequency [MHz] | Ant. Gain [dBi] | RB Size/Offset | Conducted Power [dBm] | ERP [dBm]    | ERP [Watts] | ERP Limit [dBm] | Margin [dB] |
|-----------|---------|-----------------|-----------------|----------------|-----------------------|--------------|-------------|-----------------|-------------|
| 1.4 MHz   | QPSK    | 824.7           | -2.20           | 1 / 0          | 25.50                 | 21.15        | 0.130       | 38.45           | -17.30      |
|           |         | 836.5           | -2.20           | 1 / 0          | 25.65                 | 21.30        | 0.135       | 38.45           | -17.15      |
|           |         | 848.3           | -2.20           | 1 / 0          | 25.69                 | <b>21.34</b> | 0.136       | 38.45           | -17.11      |
|           | 16-QAM  | 848.3           | -2.20           | 1 / 5          | 24.96                 | <b>20.61</b> | 0.115       | 38.45           | -17.84      |
|           | 64-QAM  | 836.5           | -2.20           | 1 / 5          | 23.86                 | <b>19.51</b> | 0.089       | 38.45           | -18.94      |
|           | 256-QAM | 848.3           | -2.20           | 1 / 0          | 20.91                 | <b>16.56</b> | 0.045       | 38.45           | -21.89      |
| 3 MHz     | QPSK    | 825.5           | -2.20           | 1 / 0          | 25.47                 | 21.12        | 0.129       | 38.45           | -17.33      |
|           |         | 836.5           | -2.20           | 1 / 0          | 25.69                 | 21.34        | 0.136       | 38.45           | -17.11      |
|           |         | 847.5           | -2.20           | 1 / 0          | 25.70                 | <b>21.35</b> | 0.136       | 38.45           | -17.10      |
|           | 16-QAM  | 847.5           | -2.20           | 1 / 0          | 25.28                 | <b>20.93</b> | 0.124       | 38.45           | -17.52      |
|           | 64-QAM  | 825.5           | -2.20           | 1 / 0          | 24.01                 | <b>19.66</b> | 0.092       | 38.45           | -18.79      |
|           | 256-QAM | 847.5           | -2.20           | 1 / 0          | 20.83                 | <b>16.48</b> | 0.044       | 38.45           | -21.97      |
| 5 MHz     | QPSK    | 826.5           | -2.20           | 1 / 24         | 25.70                 | <b>21.35</b> | 0.136       | 38.45           | -17.10      |
|           |         | 836.5           | -2.20           | 1 / 24         | 25.70                 | <b>21.35</b> | 0.136       | 38.45           | -17.10      |
|           |         | 846.5           | -2.20           | 1 / 0          | 25.70                 | <b>21.35</b> | 0.136       | 38.45           | -17.10      |
|           | 16-QAM  | 846.5           | -2.20           | 1 / 0          | 25.28                 | <b>20.93</b> | 0.124       | 38.45           | -17.52      |
|           | 64-QAM  | 846.5           | -2.20           | 1 / 24         | 24.11                 | <b>19.76</b> | 0.095       | 38.45           | -18.69      |
|           | 256-QAM | 846.5           | -2.20           | 1 / 0          | 20.94                 | <b>16.59</b> | 0.046       | 38.45           | -21.86      |
| 10 MHz    | QPSK    | 829.0           | -2.20           | 1 / 25         | 25.47                 | 21.12        | 0.129       | 38.45           | -17.33      |
|           |         | 836.5           | -2.20           | 1 / 49         | 25.69                 | 21.34        | 0.136       | 38.45           | -17.11      |
|           |         | 844.0           | -2.20           | 1 / 0          | 25.70                 | <b>21.35</b> | 0.136       | 38.45           | -17.10      |
|           | 16-QAM  | 844.0           | -2.20           | 1 / 49         | 25.11                 | <b>20.76</b> | 0.119       | 38.45           | -17.69      |
|           | 64-QAM  | 844.0           | -2.20           | 1 / 0          | 24.00                 | <b>19.65</b> | 0.092       | 38.45           | -18.80      |
|           | 256-QAM | 844.0           | -2.20           | 1 / 0          | 21.02                 | <b>16.67</b> | 0.046       | 38.45           | -21.78      |


**Table 7-2. Antenna 4 ERP Data (LTE Band 26)**

|   |  |                                   |
|---|--|-----------------------------------|
| FCC ID: BCGA2903                        |  PART 22 MEASUREMENT REPORT | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2311270064-07.BCG | Test Dates:<br>10/1/2023 - 3/21/2024   | EUT Type:<br>Tablet Device        |
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LTE Band 5

| Bandwidth | Mod.    | Frequency [MHz] | Ant. Gain [dBi] | RB Size/Offset | Conducted Power [dBm] | ERP [dBm]    | ERP [Watts] | ERP Limit [dBm] | Margin [dB] |
|-----------|---------|-----------------|-----------------|----------------|-----------------------|--------------|-------------|-----------------|-------------|
| 1.4 MHz   | QPSK    | 829.0           | -2.20           | 1 / 0          | 25.43                 | 21.08        | 0.128       | 38.45           | -17.37      |
|           |         | 836.5           | -2.20           | 1 / 5          | 25.70                 | <b>21.35</b> | 0.136       | 38.45           | -17.10      |
|           |         | 844.0           | -2.20           | 1 / 0          | 25.70                 | <b>21.35</b> | 0.136       | 38.45           | -17.10      |
|           | 16-QAM  | 836.5           | -2.20           | 1 / 5          | 24.98                 | <b>20.63</b> | 0.116       | 38.45           | -17.82      |
|           | 64-QAM  | 844.0           | -2.20           | 1 / 5          | 23.85                 | <b>19.50</b> | 0.089       | 38.45           | -18.95      |
|           | 256-QAM | 844.0           | -2.20           | 1 / 0          | 20.96                 | <b>16.61</b> | 0.046       | 38.45           | -21.84      |
| 3 MHz     | QPSK    | 829.0           | -2.20           | 1 / 0          | 25.40                 | 21.05        | 0.127       | 38.45           | -17.40      |
|           |         | 836.5           | -2.20           | 1 / 0          | 25.58                 | 21.23        | 0.133       | 38.45           | -17.22      |
|           |         | 844.0           | -2.20           | 1 / 0          | 25.68                 | <b>21.33</b> | 0.136       | 38.45           | -17.12      |
|           | 16-QAM  | 844.0           | -2.20           | 1 / 0          | 25.07                 | <b>20.72</b> | 0.118       | 38.45           | -17.73      |
|           | 64-QAM  | 844.0           | -2.20           | 1 / 7          | 23.83                 | <b>19.48</b> | 0.089       | 38.45           | -18.97      |
|           | 256-QAM | 844.0           | -2.20           | 1 / 0          | 20.98                 | <b>16.63</b> | 0.046       | 38.45           | -21.82      |
| 5 MHz     | QPSK    | 829.0           | -2.20           | 1 / 0          | 25.69                 | 21.34        | 0.136       | 38.45           | -17.11      |
|           |         | 836.5           | -2.20           | 1 / 0          | 25.67                 | 21.32        | 0.136       | 38.45           | -17.13      |
|           |         | 844.0           | -2.20           | 1 / 0          | 25.70                 | <b>21.35</b> | 0.136       | 38.45           | -17.10      |
|           | 16-QAM  | 836.5           | -2.20           | 1 / 0          | 25.27                 | <b>20.92</b> | 0.124       | 38.45           | -17.53      |
|           | 64-QAM  | 844.0           | -2.20           | 1 / 12         | 23.94                 | <b>19.59</b> | 0.091       | 38.45           | -18.86      |
|           | 256-QAM | 836.5           | -2.20           | 1 / 12         | 20.98                 | <b>16.63</b> | 0.046       | 38.45           | -21.82      |
| 10 MHz    | QPSK    | 829.0           | -2.20           | 1 / 0          | 25.39                 | 21.04        | 0.127       | 38.45           | -17.41      |
|           |         | 836.5           | -2.20           | 1 / 0          | 25.69                 | 21.34        | 0.136       | 38.45           | -17.11      |
|           |         | 844.0           | -2.20           | 1 / 49         | 25.70                 | <b>21.35</b> | 0.136       | 38.45           | -17.10      |
|           | 16-QAM  | 844.0           | -2.20           | 1 / 0          | 25.12                 | <b>20.77</b> | 0.119       | 38.45           | -17.68      |
|           | 64-QAM  | 844.0           | -2.20           | 1 / 49         | 23.93                 | <b>19.58</b> | 0.091       | 38.45           | -18.87      |
|           | 256-QAM | 844.0           | -2.20           | 1 / 0          | 20.89                 | <b>16.54</b> | 0.045       | 38.45           | -21.91      |

Table 7-3. Antenna 4 ERP Data (LTE Band 5)

|   |   |                            |                                   |
|---|---|----------------------------|-----------------------------------|
| FCC ID: BCGA2903                        |  | PART 22 MEASUREMENT REPORT | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2311270064-07.BCG | Test Dates:<br>10/1/2023 - 3/21/2024  | EUT Type:<br>Tablet Device | Page 81 of 109                    |



### ULCA - LTE Band 5

| Power State | Band   | Bandwidth (PCC + SCC) | PCC        |            |              |         | SCC          |            |            |              | ULCA Tx. Power [dBm] | Ant. Gain [dBi] | ERP [dBm] | ERP [Watts] | ERP Limit [dBm] | Margin [dB] |         |              |        |
|-------------|--------|-----------------------|------------|------------|--------------|---------|--------------|------------|------------|--------------|----------------------|-----------------|-----------|-------------|-----------------|-------------|---------|--------------|--------|
|             |        |                       | Modulation | UL Channel | UL Frequency | UL # RB | UL RB Offset | Modulation | UL Channel | UL Frequency |                      |                 |           |             |                 |             | UL # RB | UL RB Offset |        |
| Max         | LTE B5 | 10MHz + 10MHz         | QPSK       | 20450      | 829.0        | 1       | 49           | QPSK       | 20549      | 838.9        | 1                    | 0               | 25.53     | -2.20       | 21.18           | 0.131       | 38.45   | -17.27       |        |
|             |        |                       |            | 20475      | 831.5        | 1       | 49           |            | 20574      | 841.4        | 1                    | 0               | 25.48     | -2.20       | 21.13           | 0.130       | 38.45   | -17.32       |        |
|             |        |                       |            | 20800      | 844.0        | 1       | 0            |            | 20501      | 834.1        | 1                    | 49              | 25.45     | -2.20       | 21.10           | 0.129       | 38.45   | -17.35       |        |
|             |        |                       | QPSK       | 20450      | 829          | 50      | 0            | QPSK       | 20549      | 838.9        | 50                   | 0               | 22.87     | -2.20       | 18.52           | 0.071       | 38.45   | -19.93       |        |
|             |        |                       |            | 16-QAM     | 20450        | 829     | 50           | 0          | 16-QAM     | 20549        | 838.9                | 50              | 0         | 21.85       | -2.20           | 17.50       | 0.056   | 38.45        | -20.95 |
|             |        |                       |            | 64-QAM     | 20450        | 829     | 50           | 0          | 64-QAM     | 20549        | 838.9                | 50              | 0         | 21.85       | -2.20           | 17.50       | 0.056   | 38.45        | -20.95 |
|             |        |                       | 256-QAM    | 20450      | 829          | 50      | 0            | 256-QAM    | 20549      | 838.9        | 50                   | 0               | 19.98     | -2.20       | 15.63           | 0.037       | 38.45   | -22.82       |        |

Table 7-4. Antenna 4 ERP Data (ULCA LTE Band 5)

### NR Band n26

| Bandwidth | Mod.     | Frequency [MHz] | Ant. Gain [dBi] | RB Size/Offset | Conducted Power [dBm] | ERP [dBm] | ERP [Watts] | ERP Limit [dBm] | Margin [dB] |
|-----------|----------|-----------------|-----------------|----------------|-----------------------|-----------|-------------|-----------------|-------------|
| 5 MHz     | π/2 BPSK | 829.0           | -2.20           | 1 / 1          | 25.43                 | 21.08     | 0.128       | 38.45           | -17.37      |
|           |          | 836.5           | -2.20           | 1 / 1          | 25.43                 | 21.08     | 0.128       | 38.45           | -17.37      |
|           |          | 844.0           | -2.20           | 1 / 23         | 25.39                 | 21.04     | 0.127       | 38.45           | -17.41      |
|           | QPSK     | 829.0           | -2.20           | 1 / 1          | 25.49                 | 21.14     | 0.130       | 38.45           | -17.31      |
|           |          | 836.5           | -2.20           | 1 / 1          | 25.54                 | 21.19     | 0.131       | 38.45           | -17.26      |
|           |          | 844.0           | -2.20           | 1 / 12         | 25.52                 | 21.17     | 0.131       | 38.45           | -17.28      |
|           | 16-QAM   | 836.5           | -2.20           | 1 / 23         | 24.61                 | 20.26     | 0.106       | 38.45           | -18.19      |
| 64-QAM    | 836.5    | -2.20           | 1 / 1           | 23.06          | 18.71                 | 0.074     | 38.45       | -19.75          |             |
| 256-QAM   | 829.0    | -2.20           | 1 / 1           | 20.99          | 16.64                 | 0.046     | 38.45       | -21.81          |             |
| 10 MHz    | π/2 BPSK | 829.0           | -2.20           | 1 / 1          | 25.47                 | 21.12     | 0.129       | 38.45           | -17.33      |
|           |          | 836.5           | -2.20           | 1 / 50         | 25.50                 | 21.15     | 0.130       | 38.45           | -17.30      |
|           |          | 844.0           | -2.20           | 1 / 1          | 25.43                 | 21.08     | 0.128       | 38.45           | -17.37      |
|           | QPSK     | 829.0           | -2.20           | 1 / 1          | 25.53                 | 21.18     | 0.131       | 38.45           | -17.27      |
|           |          | 836.5           | -2.20           | 1 / 50         | 25.51                 | 21.16     | 0.130       | 38.45           | -17.30      |
|           |          | 844.0           | -2.20           | 1 / 25         | 25.56                 | 21.21     | 0.132       | 38.45           | -17.24      |
|           | 16-QAM   | 829.0           | -2.20           | 1 / 1          | 24.58                 | 20.23     | 0.106       | 38.45           | -18.22      |
| 64-QAM    | 836.5    | -2.20           | 1 / 25          | 23.21          | 18.86                 | 0.077     | 38.45       | -19.59          |             |
| 256-QAM   | 836.5    | -2.20           | 1 / 50          | 21.08          | 16.73                 | 0.047     | 38.45       | -21.72          |             |
| 15 MHz    | π/2 BPSK | 831.5           | -2.20           | 1 / 1          | 25.57                 | 21.22     | 0.132       | 38.45           | -17.23      |
|           |          | 836.5           | -2.20           | 1 / 77         | 25.61                 | 21.26     | 0.134       | 38.45           | -17.19      |
|           |          | 841.5           | -2.20           | 1 / 1          | 25.59                 | 21.24     | 0.133       | 38.45           | -17.21      |
|           | QPSK     | 831.5           | -2.20           | 1 / 1          | 25.59                 | 21.24     | 0.133       | 38.45           | -17.22      |
|           |          | 836.5           | -2.20           | 1 / 77         | 25.57                 | 21.22     | 0.132       | 38.45           | -17.23      |
|           |          | 841.5           | -2.20           | 1 / 77         | 25.59                 | 21.24     | 0.133       | 38.45           | -17.21      |
|           | 16-QAM   | 841.5           | -2.20           | 1 / 36         | 24.71                 | 20.36     | 0.109       | 38.45           | -18.09      |
| 64-QAM    | 841.5    | -2.20           | 1 / 77          | 23.12          | 18.77                 | 0.075     | 38.45       | -19.68          |             |
| 256-QAM   | 836.5    | -2.20           | 1 / 77          | 21.11          | 16.76                 | 0.047     | 38.45       | -21.69          |             |
| 20 MHz    | π/2 BPSK | 834.0           | -2.20           | 1 / 104        | 25.56                 | 21.21     | 0.132       | 38.45           | -17.24      |
|           |          | 836.5           | -2.20           | 1 / 1          | 25.56                 | 21.21     | 0.132       | 38.45           | -17.24      |
|           |          | 839.0           | -2.20           | 1 / 50         | 25.51                 | 21.16     | 0.131       | 38.45           | -17.29      |
|           | QPSK     | 834.0           | -2.20           | 1 / 104        | 25.59                 | 21.24     | 0.133       | 38.45           | -17.21      |
|           |          | 836.5           | -2.20           | 1 / 104        | 25.58                 | 21.23     | 0.133       | 38.45           | -17.22      |
|           |          | 839.0           | -2.20           | 1 / 104        | 25.56                 | 21.21     | 0.132       | 38.45           | -17.24      |
|           | 16-QAM   | 836.5           | -2.20           | 1 / 104        | 24.77                 | 20.42     | 0.110       | 38.45           | -18.03      |
| 64-QAM    | 836.5    | -2.20           | 1 / 50          | 23.27          | 18.92                 | 0.078     | 38.45       | -19.53          |             |
| 256-QAM   | 834.0    | -2.20           | 1 / 1           | 21.11          | 16.76                 | 0.047     | 38.45       | -21.69          |             |


Table 7-5. Antenna 4 ERP Data (NR Band n26)

|   |                                      |                                   |
|---|--------------------------------------|-----------------------------------|
| FCC ID: BCGA2903                        | PART 22 MEASUREMENT REPORT           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2311270064-07.BCG | Test Dates:<br>10/1/2023 - 3/21/2024 | EUT Type:<br>Tablet Device        |
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NR Band n5

| Bandwidth | Mod.     | Frequency [MHz] | Ant. Gain [dBi] | RB Size/Offset | Conducted Power [dBm] | ERP [dBm]    | ERP [Watts] | ERP Limit [dBm] | Margin [dB] |
|-----------|----------|-----------------|-----------------|----------------|-----------------------|--------------|-------------|-----------------|-------------|
| 5 MHz     | π/2 BPSK | 829.0           | -2.20           | 1 / 1          | 25.40                 | <b>21.05</b> | 0.127       | 38.45           | -17.40      |
|           |          | 836.5           | -2.20           | 1 / 1          | 25.32                 | 20.97        | 0.125       | 38.45           | -17.48      |
|           |          | 844.0           | -2.20           | 1 / 1          | 25.36                 | 21.01        | 0.126       | 38.45           | -17.44      |
|           | QPSK     | 829.0           | -2.20           | 1 / 23         | 25.42                 | 21.07        | 0.128       | 38.45           | -17.38      |
|           |          | 836.5           | -2.20           | 1 / 1          | 25.38                 | 21.03        | 0.127       | 38.45           | -17.42      |
|           |          | 844.0           | -2.20           | 1 / 12         | 25.52                 | <b>21.17</b> | 0.131       | 38.45           | -17.28      |
|           | 16-QAM   | 836.5           | -2.20           | 1 / 23         | 24.48                 | <b>20.13</b> | 0.103       | 38.45           | -18.32      |
| 64-QAM    | 829.0    | -2.20           | 1 / 23          | 23.11          | <b>18.76</b>          | 0.075        | 38.45       | -19.69          |             |
| 256-QAM   | 829.0    | -2.20           | 1 / 23          | 20.94          | <b>16.59</b>          | 0.046        | 38.45       | -21.86          |             |
| 10 MHz    | π/2 BPSK | 829.0           | -2.20           | 1 / 1          | 25.35                 | <b>21.00</b> | 0.126       | 38.45           | -17.45      |
|           |          | 836.5           | -2.20           | 1 / 1          | 25.25                 | 20.90        | 0.123       | 38.45           | -17.55      |
|           |          | 844.0           | -2.20           | 1 / 25         | 25.26                 | 20.91        | 0.123       | 38.45           | -17.54      |
|           | QPSK     | 829.0           | -2.20           | 1 / 1          | 25.43                 | 21.08        | 0.128       | 38.45           | -17.37      |
|           |          | 836.5           | -2.20           | 1 / 1          | 25.30                 | 20.95        | 0.124       | 38.45           | -17.50      |
|           |          | 844.0           | -2.20           | 1 / 1          | 25.48                 | <b>21.13</b> | 0.130       | 38.45           | -17.32      |
|           | 16-QAM   | 844.0           | -2.20           | 1 / 25         | 24.55                 | <b>20.20</b> | 0.105       | 38.45           | -18.25      |
| 64-QAM    | 836.5    | -2.20           | 1 / 25          | 22.93          | <b>18.58</b>          | 0.072        | 38.45       | -19.88          |             |
| 256-QAM   | 829.0    | -2.20           | 1 / 1           | 20.85          | <b>16.50</b>          | 0.045        | 38.45       | -21.95          |             |
| 15 MHz    | π/2 BPSK | 831.5           | -2.20           | 1 / 1          | 25.47                 | <b>21.12</b> | 0.129       | 38.45           | -17.34      |
|           |          | 836.5           | -2.20           | 1 / 1          | 25.46                 | 21.11        | 0.129       | 38.45           | -17.34      |
|           |          | 841.5           | -2.20           | 1 / 1          | 25.36                 | 21.01        | 0.126       | 38.45           | -17.44      |
|           | QPSK     | 831.5           | -2.20           | 1 / 1          | 25.50                 | <b>21.15</b> | 0.130       | 38.45           | -17.30      |
|           |          | 836.5           | -2.20           | 1 / 1          | 25.45                 | 21.10        | 0.129       | 38.45           | -17.35      |
|           |          | 841.5           | -2.20           | 1 / 1          | 25.36                 | 21.01        | 0.126       | 38.45           | -17.44      |
|           | 16-QAM   | 836.5           | -2.20           | 1 / 36         | 24.56                 | <b>20.21</b> | 0.105       | 38.45           | -18.24      |
| 64-QAM    | 841.5    | -2.20           | 1 / 77          | 23.01          | <b>18.66</b>          | 0.073        | 38.45       | -19.79          |             |
| 256-QAM   | 831.5    | -2.20           | 1 / 1           | 21.13          | <b>16.78</b>          | 0.048        | 38.45       | -21.67          |             |
| 20 MHz    | π/2 BPSK | 834.0           | -2.20           | 1 / 1          | 25.52                 | <b>21.17</b> | 0.131       | 38.45           | -17.28      |
|           |          | 836.5           | -2.20           | 1 / 1          | 25.46                 | 21.11        | 0.129       | 38.45           | -17.34      |
|           |          | 839.0           | -2.20           | 1 / 1          | 25.42                 | 21.07        | 0.128       | 38.45           | -17.38      |
|           | QPSK     | 834.0           | -2.20           | 1 / 1          | 25.50                 | <b>21.15</b> | 0.130       | 38.45           | -17.30      |
|           |          | 836.5           | -2.20           | 1 / 1          | 25.47                 | 21.12        | 0.129       | 38.45           | -17.33      |
|           |          | 839.0           | -2.20           | 1 / 1          | 25.46                 | 21.11        | 0.129       | 38.45           | -17.34      |
|           | 16-QAM   | 834.0           | -2.20           | 1 / 1          | 24.60                 | <b>20.25</b> | 0.106       | 38.45           | -18.20      |
| 64-QAM    | 836.5    | -2.20           | 1 / 1           | 23.11          | <b>18.76</b>          | 0.075        | 38.45       | -19.69          |             |
| 256-QAM   | 834.0    | -2.20           | 1 / 1           | 21.11          | <b>16.76</b>          | 0.047        | 38.45       | -21.69          |             |


Table 7-6. Antenna 4 ERP Data (NR Band n5)

|   |  |                                   |
|---|--|-----------------------------------|
| FCC ID: BCGA2903                        |  PART 22 MEASUREMENT REPORT | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2311270064-07.BCG | Test Dates:<br>10/1/2023 - 3/21/2024   | EUT Type:<br>Tablet Device        |
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WCDMA Cell

| Frequency [MHz] | Mode     | Conducted Power [dBm] | Ant. Gain [dBi] | ERP [dBm]    | ERP [Watts]  | ERP Limit [dBm] | Margin [dB] |
|-----------------|----------|-----------------------|-----------------|--------------|--------------|-----------------|-------------|
| 826.40          | WCDMA850 | 25.27                 | -2.20           | 20.92        | 0.124        | 38.45           | -17.53      |
| 836.60          | WCDMA850 | 25.60                 | -2.20           | <b>21.25</b> | <b>0.133</b> | 38.45           | -17.20      |
| 846.60          | WCDMA850 | 25.49                 | -2.20           | 21.14        | 0.130        | 38.45           | -17.31      |

Table 7-7. Antenna 4 ERP Data (WCDMA Cell)


|   |  |                                   |
|---|--|-----------------------------------|
| FCC ID: BCGA2903                        |  PART 22 MEASUREMENT REPORT | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2311270064-07.BCG | Test Dates:<br>10/1/2023 - 3/21/2024   | EUT Type:<br>Tablet Device        |
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## 7.5.2 Antenna 3b – ERP

### LTE Band 26

| Bandwidth | Mod.    | Frequency [MHz] | Ant. Gain [dBi] | RB Size/Offset | Conducted Power [dBm] | ERP [dBm]    | ERP [Watts] | ERP Limit [dBm] | Margin [dB] |
|-----------|---------|-----------------|-----------------|----------------|-----------------------|--------------|-------------|-----------------|-------------|
| 1.4 MHz   | QPSK    | 824.7           | -0.40           | 1 / 0          | 24.94                 | 22.39        | 0.173       | 38.45           | -16.06      |
|           |         | 836.5           | -0.40           | 1 / 5          | 24.99                 | 22.44        | 0.175       | 38.45           | -16.01      |
|           |         | 848.3           | -0.40           | 1 / 0          | 25.14                 | <b>22.59</b> | 0.182       | 38.45           | -15.86      |
|           | 16-QAM  | 824.7           | -0.40           | 1 / 5          | 24.20                 | <b>21.65</b> | 0.146       | 38.45           | -16.80      |
|           | 64-QAM  | 824.7           | -0.40           | 1 / 0          | 23.23                 | <b>20.68</b> | 0.117       | 38.45           | -17.77      |
|           | 256-QAM | 848.3           | -0.40           | 1 / 3          | 20.29                 | <b>17.74</b> | 0.059       | 38.45           | -20.71      |
| 3 MHz     | QPSK    | 825.5           | -0.40           | 1 / 0          | 24.95                 | 22.40        | 0.174       | 38.45           | -16.05      |
|           |         | 836.5           | -0.40           | 1 / 0          | 25.07                 | 22.52        | 0.179       | 38.45           | -15.93      |
|           |         | 847.5           | -0.40           | 1 / 0          | 25.09                 | <b>22.54</b> | 0.179       | 38.45           | -15.91      |
|           | 16-QAM  | 847.5           | -0.40           | 1 / 0          | 24.56                 | <b>22.01</b> | 0.159       | 38.45           | -16.44      |
|           | 64-QAM  | 836.5           | -0.40           | 1 / 0          | 23.33                 | <b>20.78</b> | 0.120       | 38.45           | -17.67      |
|           | 256-QAM | 847.5           | -0.40           | 1 / 0          | 20.34                 | <b>17.79</b> | 0.060       | 38.45           | -20.66      |
| 5 MHz     | QPSK    | 826.5           | -0.40           | 1 / 0          | 25.20                 | <b>22.65</b> | 0.184       | 38.45           | -15.80      |
|           |         | 836.5           | -0.40           | 1 / 0          | 25.20                 | <b>22.65</b> | 0.184       | 38.45           | -15.80      |
|           |         | 846.5           | -0.40           | 1 / 0          | 25.14                 | 22.59        | 0.182       | 38.45           | -15.86      |
|           | 16-QAM  | 836.5           | -0.40           | 1 / 0          | 24.58                 | <b>22.03</b> | 0.160       | 38.45           | -16.42      |
|           | 64-QAM  | 846.5           | -0.40           | 1 / 12         | 23.42                 | <b>20.87</b> | 0.122       | 38.45           | -17.58      |
|           | 256-QAM | 846.5           | -0.40           | 1 / 24         | 20.20                 | <b>17.65</b> | 0.058       | 38.45           | -20.80      |
| 10 MHz    | QPSK    | 829.0           | -0.40           | 1 / 25         | 24.95                 | 22.40        | 0.174       | 38.45           | -16.05      |
|           |         | 836.5           | -0.40           | 1 / 25         | 25.11                 | <b>22.56</b> | 0.180       | 38.45           | -15.89      |
|           |         | 844.0           | -0.40           | 1 / 0          | 25.01                 | 22.46        | 0.176       | 38.45           | -15.99      |
|           | 16-QAM  | 844.0           | -0.40           | 1 / 25         | 24.56                 | <b>22.01</b> | 0.159       | 38.45           | -16.44      |
|           | 64-QAM  | 844.0           | -0.40           | 1 / 49         | 23.36                 | <b>20.81</b> | 0.121       | 38.45           | -17.64      |
|           | 256-QAM | 844.0           | -0.40           | 1 / 0          | 20.47                 | <b>17.92</b> | 0.062       | 38.45           | -20.53      |


**Table 7-8. Antenna 3b ERP Data (LTE Band 26)**

|   |  |                                   |
|---|--|-----------------------------------|
| FCC ID: BCGA2903                        |  PART 22 MEASUREMENT REPORT | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2311270064-07.BCG | Test Dates:<br>10/1/2023 - 3/21/2024   | EUT Type:<br>Tablet Device        |
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LTE Band 5

| Bandwidth | Mod.    | Frequency [MHz] | Ant. Gain [dBi] | RB Size/Offset | Conducted Power [dBm] | ERP [dBm]    | ERP [Watts] | ERP Limit [dBm] | Margin [dB] |
|-----------|---------|-----------------|-----------------|----------------|-----------------------|--------------|-------------|-----------------|-------------|
| 1.4 MHz   | QPSK    | 829.0           | -0.40           | 1 / 5          | 24.94                 | 22.39        | 0.173       | 38.45           | -16.06      |
|           |         | 836.5           | -0.40           | 1 / 3          | 25.09                 | 22.54        | 0.179       | 38.45           | -15.91      |
|           |         | 844.0           | -0.40           | 1 / 0          | 25.13                 | <b>22.58</b> | 0.181       | 38.45           | -15.87      |
|           | 16-QAM  | 829.0           | -0.40           | 1 / 5          | 24.35                 | <b>21.80</b> | 0.151       | 38.45           | -16.65      |
|           | 64-QAM  | 829.0           | -0.40           | 1 / 0          | 23.40                 | <b>20.85</b> | 0.122       | 38.45           | -17.60      |
|           | 256-QAM | 829.0           | -0.40           | 1 / 0          | 20.29                 | <b>17.74</b> | 0.059       | 38.45           | -20.71      |
| 3 MHz     | QPSK    | 829.0           | -0.40           | 1 / 7          | 24.93                 | 22.38        | 0.173       | 38.45           | -16.07      |
|           |         | 836.5           | -0.40           | 1 / 0          | 25.01                 | 22.46        | 0.176       | 38.45           | -15.99      |
|           |         | 844.0           | -0.40           | 1 / 0          | 25.02                 | <b>22.47</b> | 0.177       | 38.45           | -15.98      |
|           | 16-QAM  | 844.0           | -0.40           | 1 / 14         | 24.37                 | <b>21.82</b> | 0.152       | 38.45           | -16.63      |
|           | 64-QAM  | 829.0           | -0.40           | 1 / 7          | 23.37                 | <b>20.82</b> | 0.121       | 38.45           | -17.63      |
|           | 256-QAM | 844.0           | -0.40           | 1 / 7          | 20.87                 | <b>18.32</b> | 0.068       | 38.45           | -20.13      |
| 5 MHz     | QPSK    | 829.0           | -0.40           | 1 / 0          | 25.20                 | <b>22.65</b> | 0.184       | 38.45           | -15.80      |
|           |         | 836.5           | -0.40           | 1 / 0          | 25.11                 | 22.56        | 0.180       | 38.45           | -15.89      |
|           |         | 844.0           | -0.40           | 1 / 0          | 25.11                 | 22.56        | 0.180       | 38.45           | -15.89      |
|           | 16-QAM  | 829.0           | -0.40           | 1 / 0          | 24.61                 | <b>22.06</b> | 0.161       | 38.45           | -16.39      |
|           | 64-QAM  | 829.0           | -0.40           | 1 / 0          | 23.38                 | <b>20.83</b> | 0.121       | 38.45           | -17.62      |
|           | 256-QAM | 829.0           | -0.40           | 1 / 24         | 20.53                 | <b>17.98</b> | 0.063       | 38.45           | -20.47      |
| 10 MHz    | QPSK    | 829.0           | -0.40           | 1 / 0          | 24.93                 | 22.38        | 0.173       | 38.45           | -16.07      |
|           |         | 836.5           | -0.40           | 1 / 25         | 25.03                 | 22.48        | 0.177       | 38.45           | -15.97      |
|           |         | 844.0           | -0.40           | 1 / 25         | 25.10                 | <b>22.55</b> | 0.180       | 38.45           | -15.90      |
|           | 16-QAM  | 844.0           | -0.40           | 1 / 49         | 24.36                 | <b>21.81</b> | 0.152       | 38.45           | -16.64      |
|           | 64-QAM  | 829.0           | -0.40           | 1 / 25         | 23.28                 | <b>20.73</b> | 0.118       | 38.45           | -17.72      |
|           | 256-QAM | 844.0           | -0.40           | 1 / 0          | 20.34                 | <b>17.79</b> | 0.060       | 38.45           | -20.66      |

Table 7-9. Antenna 3b ERP Data (LTE Band 5)

|   |  |                                   |
|---|--|-----------------------------------|
| FCC ID: BCGA2903                        |  PART 22 MEASUREMENT REPORT | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2311270064-07.BCG | Test Dates:<br>10/1/2023 - 3/21/2024   | EUT Type:<br>Tablet Device        |
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### ULCA - LTE Band 5

| Power State | Band   | Bandwidth (PCC + SCC) | PCC        |            |              |         | SCC          |            |            |              | ULCA Tx. Power [dBm] | Ant. Gain [dBi] | ERP [dBm] | ERP [Watts] | ERP Limit [dBm] | Margin [dB] |         |              |
|-------------|--------|-----------------------|------------|------------|--------------|---------|--------------|------------|------------|--------------|----------------------|-----------------|-----------|-------------|-----------------|-------------|---------|--------------|
|             |        |                       | Modulation | UL Channel | UL Frequency | UL # RB | UL RB Offset | Modulation | UL Channel | UL Frequency |                      |                 |           |             |                 |             | UL # RB | UL RB Offset |
| Max         | LTE B5 | 10MHz + 10MHz         | QPSK       | 20450      | 829.0        | 1       | 49           | QPSK       | 20549      | 838.9        | 1                    | 0               | 24.92     | -0.40       | 22.37           | 0.173       | 38.45   | -16.08       |
|             |        |                       |            | 20475      | 831.5        | 1       | 49           |            | 20574      | 841.4        | 1                    | 0               | 24.88     | -0.40       | 22.33           | 0.171       | 38.45   | -16.12       |
|             |        |                       |            | 20800      | 844.0        | 1       | 0            |            | 20501      | 834.1        | 1                    | 49              | 24.86     | -0.40       | 22.31           | 0.170       | 38.45   | -16.14       |
|             |        |                       | QPSK       | 20450      | 829          | 50      | 0            | QPSK       | 20549      | 838.9        | 50                   | 0               | 22.24     | -0.40       | 19.69           | 0.093       | 38.45   | -18.76       |
|             |        |                       |            | 16-QAM     | 20450        | 829     | 50           | 0          | 16-QAM     | 20549        | 838.9                | 50              | 0         | 21.25       | -0.40           | 18.70       | 0.074   | 38.45        |
|             |        |                       | 64-QAM     | 20450      | 829          | 50      | 0            | 64-QAM     | 20549      | 838.9        | 50                   | 0               | 21.21     | -0.40       | 18.66           | 0.073       | 38.45   | -19.79       |
|             |        |                       | 256-QAM    | 20450      | 829          | 50      | 0            | 256-QAM    | 20549      | 838.9        | 50                   | 0               | 19.27     | -0.40       | 16.72           | 0.047       | 38.45   | -21.73       |

Table 7-10. Antenna 3b ERP Data (ULCA LTE Band 5)

### NR Band n26

| Bandwidth | Mod.     | Frequency [MHz] | Ant. Gain [dBi] | RB Size/Offset | Conducted Power [dBm] | ERP [dBm] | ERP [Watts] | ERP Limit [dBm] | Margin [dB] |
|-----------|----------|-----------------|-----------------|----------------|-----------------------|-----------|-------------|-----------------|-------------|
| 5 MHz     | π/2 BPSK | 829.0           | -0.40           | 1 / 12         | 25.00                 | 22.45     | 0.176       | 38.45           | -16.00      |
|           |          | 836.5           | -0.40           | 1 / 1          | 24.95                 | 22.40     | 0.174       | 38.45           | -16.05      |
|           |          | 844.0           | -0.40           | 1 / 1          | 24.97                 | 22.42     | 0.175       | 38.45           | -16.03      |
|           | QPSK     | 829.0           | -0.40           | 1 / 1          | 25.01                 | 22.46     | 0.176       | 38.45           | -15.99      |
|           |          | 836.5           | -0.40           | 1 / 23         | 25.00                 | 22.45     | 0.176       | 38.45           | -16.00      |
|           |          | 844.0           | -0.40           | 1 / 1          | 25.10                 | 22.55     | 0.180       | 38.45           | -15.90      |
|           | 16-QAM   | 844.0           | -0.40           | 1 / 12         | 24.23                 | 21.68     | 0.147       | 38.45           | -16.77      |
| 64-QAM    | 829.0    | -0.40           | 1 / 12          | 23.22          | 20.67                 | 0.117     | 38.45       | -17.78          |             |
| 256-QAM   | 829.0    | -0.40           | 1 / 1           | 21.14          | 18.59                 | 0.072     | 38.45       | -19.86          |             |
| 10 MHz    | π/2 BPSK | 829.0           | -0.40           | 1 / 25         | 25.20                 | 22.65     | 0.184       | 38.45           | -15.80      |
|           |          | 836.5           | -0.40           | 1 / 50         | 25.14                 | 22.59     | 0.181       | 38.45           | -15.86      |
|           |          | 844.0           | -0.40           | 1 / 25         | 25.04                 | 22.49     | 0.178       | 38.45           | -15.96      |
|           | QPSK     | 829.0           | -0.40           | 1 / 50         | 25.05                 | 22.50     | 0.178       | 38.45           | -15.95      |
|           |          | 836.5           | -0.40           | 1 / 50         | 25.09                 | 22.54     | 0.180       | 38.45           | -15.91      |
|           |          | 844.0           | -0.40           | 1 / 50         | 25.10                 | 22.55     | 0.180       | 38.45           | -15.90      |
|           | 16-QAM   | 844.0           | -0.40           | 1 / 1          | 24.34                 | 21.79     | 0.151       | 38.45           | -16.66      |
| 64-QAM    | 836.5    | -0.40           | 1 / 50          | 23.18          | 20.63                 | 0.116     | 38.45       | -17.82          |             |
| 256-QAM   | 829.0    | -0.40           | 1 / 1           | 21.21          | 18.66                 | 0.074     | 38.45       | -19.79          |             |
| 15 MHz    | π/2 BPSK | 831.5           | -0.40           | 1 / 1          | 25.01                 | 22.46     | 0.176       | 38.45           | -15.99      |
|           |          | 836.5           | -0.40           | 1 / 77         | 25.08                 | 22.53     | 0.179       | 38.45           | -15.92      |
|           |          | 841.5           | -0.40           | 1 / 77         | 25.09                 | 22.54     | 0.179       | 38.45           | -15.91      |
|           | QPSK     | 831.5           | -0.40           | 1 / 1          | 25.02                 | 22.47     | 0.177       | 38.45           | -15.98      |
|           |          | 836.5           | -0.40           | 1 / 77         | 25.06                 | 22.51     | 0.178       | 38.45           | -15.94      |
|           |          | 841.5           | -0.40           | 1 / 77         | 25.10                 | 22.55     | 0.180       | 38.45           | -15.90      |
|           | 16-QAM   | 841.5           | -0.40           | 1 / 1          | 24.18                 | 21.63     | 0.145       | 38.45           | -16.82      |
| 64-QAM    | 841.5    | -0.40           | 1 / 77          | 23.13          | 20.58                 | 0.114     | 38.45       | -17.87          |             |
| 256-QAM   | 841.5    | -0.40           | 1 / 77          | 21.33          | 18.78                 | 0.076     | 38.45       | -19.67          |             |
| 20 MHz    | π/2 BPSK | 834.0           | -0.40           | 1 / 104        | 25.05                 | 22.50     | 0.178       | 38.45           | -15.96      |
|           |          | 836.5           | -0.40           | 1 / 104        | 25.00                 | 22.45     | 0.176       | 38.45           | -16.00      |
|           |          | 839.0           | -0.40           | 1 / 50         | 25.02                 | 22.47     | 0.177       | 38.45           | -15.98      |
|           | QPSK     | 834.0           | -0.40           | 1 / 104        | 25.07                 | 22.52     | 0.178       | 38.45           | -15.94      |
|           |          | 836.5           | -0.40           | 1 / 104        | 25.10                 | 22.55     | 0.180       | 38.45           | -15.90      |
|           |          | 839.0           | -0.40           | 1 / 50         | 25.05                 | 22.50     | 0.178       | 38.45           | -15.95      |
|           | 16-QAM   | 834.0           | -0.40           | 1 / 104        | 24.22                 | 21.67     | 0.147       | 38.45           | -16.78      |
| 64-QAM    | 836.5    | -0.40           | 1 / 50          | 23.20          | 20.65                 | 0.116     | 38.45       | -17.80          |             |
| 256-QAM   | 834.0    | -0.40           | 1 / 104         | 21.16          | 18.61                 | 0.073     | 38.45       | -19.84          |             |

Table 7-11. Antenna 3b ERP Data (NR Band n26)


|   |                                      |                            |                                   |
|---|--------------------------------------|----------------------------|-----------------------------------|
| FCC ID: BCGA2903                        |                                      | PART 22 MEASUREMENT REPORT | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2311270064-07.BCG | Test Dates:<br>10/1/2023 - 3/21/2024 | EUT Type:<br>Tablet Device | Page 87 of 109                    |



NR Band n5

| Bandwidth | Mod.     | Frequency [MHz] | Ant. Gain [dBi] | RB Size/Offset | Conducted Power [dBm] | ERP [dBm]    | ERP [Watts] | ERP Limit [dBm] | Margin [dB] |
|-----------|----------|-----------------|-----------------|----------------|-----------------------|--------------|-------------|-----------------|-------------|
| 5 MHz     | π/2 BPSK | 829.0           | -0.40           | 1 / 23         | 25.14                 | 22.59        | 0.182       | 38.45           | -15.86      |
|           |          | 836.5           | -0.40           | 1 / 12         | 24.91                 | 22.36        | 0.172       | 38.45           | -16.09      |
|           |          | 844.0           | -0.40           | 1 / 23         | 25.20                 | <b>22.65</b> | 0.184       | 38.45           | -15.80      |
|           | QPSK     | 829.0           | -0.40           | 1 / 12         | 25.11                 | 22.56        | 0.180       | 38.45           | -15.89      |
|           |          | 836.5           | -0.40           | 1 / 23         | 24.90                 | 22.35        | 0.172       | 38.45           | -16.10      |
|           |          | 844.0           | -0.40           | 1 / 23         | 25.16                 | <b>22.61</b> | 0.182       | 38.45           | -15.84      |
|           | 16-QAM   | 829.0           | -0.40           | 1 / 12         | 24.09                 | <b>21.54</b> | 0.143       | 38.45           | -16.91      |
| 64-QAM    | 829.0    | -0.40           | 1 / 1           | 23.19          | <b>20.64</b>          | 0.116        | 38.45       | -17.81          |             |
| 256-QAM   | 829.0    | -0.40           | 1 / 12          | 21.06          | <b>18.51</b>          | 0.071        | 38.45       | -19.94          |             |
| 10 MHz    | π/2 BPSK | 829.0           | -0.40           | 1 / 25         | 25.07                 | 22.52        | 0.179       | 38.45           | -15.93      |
|           |          | 836.5           | -0.40           | 1 / 1          | 25.02                 | 22.47        | 0.177       | 38.45           | -15.98      |
|           |          | 844.0           | -0.40           | 1 / 50         | 25.08                 | <b>22.53</b> | 0.179       | 38.45           | -15.92      |
|           | QPSK     | 829.0           | -0.40           | 1 / 50         | 25.20                 | <b>22.65</b> | 0.184       | 38.45           | -15.80      |
|           |          | 836.5           | -0.40           | 1 / 1          | 24.96                 | 22.41        | 0.174       | 38.45           | -16.04      |
|           |          | 844.0           | -0.40           | 1 / 50         | 24.93                 | 22.38        | 0.173       | 38.45           | -16.07      |
|           | 16-QAM   | 829.0           | -0.40           | 1 / 25         | 24.21                 | <b>21.66</b> | 0.147       | 38.45           | -16.79      |
| 64-QAM    | 829.0    | -0.40           | 1 / 25          | 23.05          | 20.50                 | 0.112        | 38.45       | -17.95          |             |
| 256-QAM   | 836.5    | -0.40           | 1 / 25          | 21.32          | <b>18.77</b>          | 0.075        | 38.45       | -19.68          |             |
| 15 MHz    | π/2 BPSK | 831.5           | -0.40           | 1 / 36         | 24.95                 | 22.40        | 0.174       | 38.45           | -16.05      |
|           |          | 836.5           | -0.40           | 1 / 77         | 25.20                 | <b>22.65</b> | 0.184       | 38.45           | -15.80      |
|           |          | 841.5           | -0.40           | 1 / 36         | 25.16                 | 22.61        | 0.182       | 38.45           | -15.84      |
|           | QPSK     | 831.5           | -0.40           | 1 / 77         | 25.04                 | 22.49        | 0.177       | 38.45           | -15.96      |
|           |          | 836.5           | -0.40           | 1 / 77         | 25.14                 | 22.59        | 0.182       | 38.45           | -15.86      |
|           |          | 841.5           | -0.40           | 1 / 77         | 25.20                 | <b>22.65</b> | 0.184       | 38.45           | -15.80      |
|           | 16-QAM   | 841.5           | -0.40           | 1 / 1          | 24.10                 | 21.55        | 0.143       | 38.45           | -16.90      |
| 64-QAM    | 836.5    | -0.40           | 1 / 36          | 23.18          | 20.63                 | 0.116        | 38.45       | -17.82          |             |
| 256-QAM   | 841.5    | -0.40           | 1 / 1           | 21.16          | <b>18.61</b>          | 0.073        | 38.45       | -19.84          |             |
| 20 MHz    | π/2 BPSK | 834.0           | -0.40           | 1 / 1          | 24.99                 | 22.44        | 0.175       | 38.45           | -16.01      |
|           |          | 836.5           | -0.40           | 1 / 1          | 25.01                 | 22.46        | 0.176       | 38.45           | -15.99      |
|           |          | 839.0           | -0.40           | 1 / 1          | 25.13                 | <b>22.58</b> | 0.181       | 38.45           | -15.87      |
|           | QPSK     | 834.0           | -0.40           | 1 / 1          | 25.00                 | 22.45        | 0.176       | 38.45           | -16.00      |
|           |          | 836.5           | -0.40           | 1 / 1          | 25.05                 | <b>22.50</b> | 0.178       | 38.45           | -15.95      |
|           |          | 839.0           | -0.40           | 1 / 1          | 24.99                 | 22.44        | 0.175       | 38.45           | -16.01      |
|           | 16-QAM   | 834.0           | -0.40           | 1 / 50         | 24.07                 | <b>21.52</b> | 0.142       | 38.45           | -16.93      |
| 64-QAM    | 836.5    | -0.40           | 1 / 1           | 23.18          | <b>20.63</b>          | 0.116        | 38.45       | -17.82          |             |
| 256-QAM   | 836.5    | -0.40           | 1 / 1           | 21.16          | <b>18.61</b>          | 0.073        | 38.45       | -19.84          |             |


Table 7-12. Antenna 3b ERP Data (NR Band n5)

|   |  |                                   |
|---|--|-----------------------------------|
| FCC ID: BCGA2903                        |  PART 22 MEASUREMENT REPORT | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2311270064-07.BCG | Test Dates:<br>10/1/2023 - 3/21/2024   | EUT Type:<br>Tablet Device        |
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WCDMA Cell

| Frequency [MHz] | Mode     | Conducted Power [dBm] | Ant. Gain [dBi] | ERP [dBm]    | ERP [Watts]  | ERP Limit [dBm] | Margin [dB] |
|-----------------|----------|-----------------------|-----------------|--------------|--------------|-----------------|-------------|
| 826.40          | WCDMA850 | 25.00                 | -0.40           | 22.45        | 0.176        | 38.45           | -16.00      |
| 836.60          | WCDMA850 | 25.20                 | -0.40           | <b>22.65</b> | <b>0.184</b> | 38.45           | -15.80      |
| 846.60          | WCDMA850 | 25.12                 | -0.40           | 22.57        | 0.181        | 38.45           | -15.88      |

Table 7-13. Antenna 3b ERP Data (WCDMA Cell)

|   |  |                                   |
|---|--|-----------------------------------|
| FCC ID: BCGA2903                        |  PART 22 MEASUREMENT REPORT | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2311270064-07.BCG | Test Dates:<br>10/1/2023 - 3/21/2024   | EUT Type:<br>Tablet Device        |
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## 7.6 Radiated Spurious Emissions

§2.1053, 22.917(a)

### Test Overview


Radiated spurious emissions measurements are performed using the field strength conversion method described in KDB 971168 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using horizontally and vertically polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as peak measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

### Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.8

### Test Settings

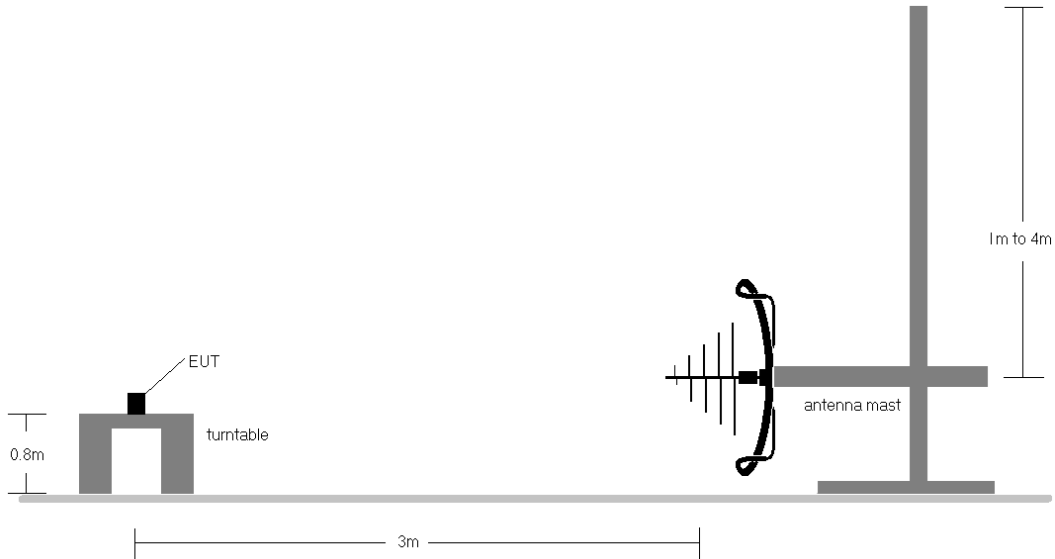
1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW  $\geq$  3 x RBW
3. Span = 1.5 times the OBW
4. No. of sweep points  $\geq$  2 x span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

|   |  |                                   |
|---|--|-----------------------------------|
| FCC ID: BCGA2903                        |  PART 22 MEASUREMENT REPORT | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2311270064-07.BCG | Test Dates:<br>10/1/2023 - 3/21/2024   | EUT Type:<br>Tablet Device        |
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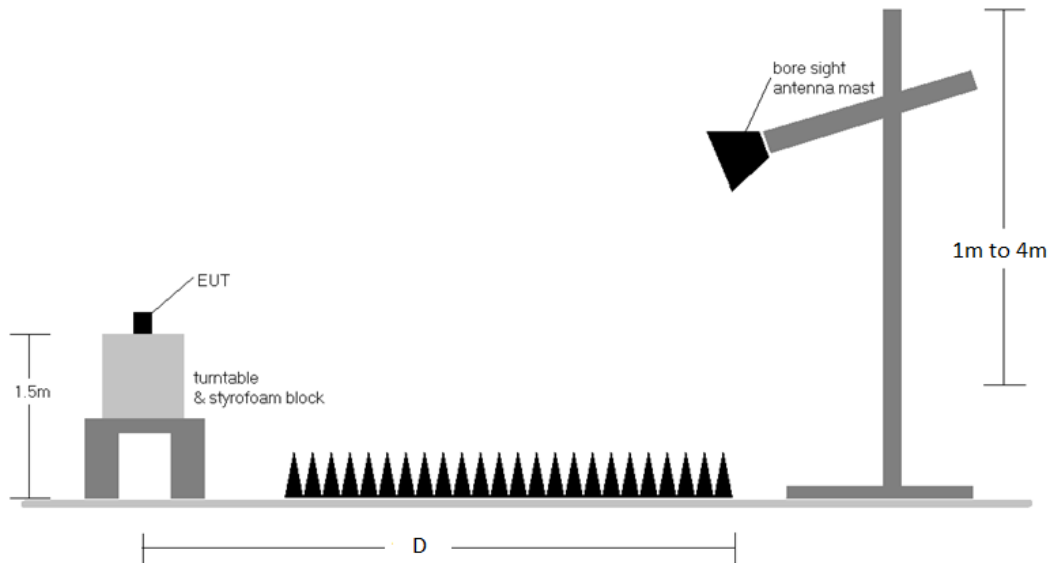
V2.2 08/24/2023

**Test Setup**


The EUT and measurement equipment were set up as shown in the diagram below.



**Figure 7-5. Test Instrument & Measurement Setup < 1GHz**




**Figure 7-6. Test Instrument & Measurement Setup >1 GHz**

|  |   |                                   |  |
|--|---|-----------------------------------|--|
| <b>FCC ID:</b> BCGA2903                        |  <b>PART 22 MEASUREMENT REPORT</b> |                                   | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1C2311270064-07.BCG | <b>Test Dates:</b><br>10/1/2023 - 3/21/2024   | <b>EUT Type:</b><br>Tablet Device | Page 91 of 109                           |

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**Test Notes**

1. Field strengths are calculated using the Measurement quantity conversions in KDB 971168 Section 5.8.4.
  - a.  $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
  - b.  $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$ ; where D is the measurement distance in meters.
2. This device employs UMTS technology with WCDMA (AMR/RMC) and HSDPA capabilities. The EUT was tested under all configurations and the highest power is reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1".
3. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
6. D is the measurement test distance and emissions 1-18GHz were measured at a 3 meters test distance.
7. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
8. ULCA spurious emissions measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. Channel bandwidth data is shown in the tables below based only on the channel bandwidths that were supported in this device.
9. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.
10. Spurious emission in EN-DC Operating mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor) has been checked and was found to not to be the worst case.
11. Uplink carrier aggregation inter-band emission was investigated and found to not be the worst case.

|  |   |                                   |  |
|--|---|-----------------------------------|--|
| <b>FCC ID:</b> BCGA2903                        |  <b>PART 22 MEASUREMENT REPORT</b> |                                   | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1C2311270064-07.BCG | <b>Test Dates:</b><br>10/1/2023 - 3/21/2024   | <b>EUT Type:</b><br>Tablet Device | Page 92 of 109                           |

## 7.6.1 Antenna 4 – Radiated Spurious Emission Measurements

### LTE Band 26/5

|                  |        |
|------------------|--------|
| Bandwidth (MHz): | 10     |
| Frequency (MHz): | 829.0  |
| RB / Offset:     | 1 / 50 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1658.0          | H               | -                   | -                          | -73.15               | -5.07       | 28.78                   | -66.48                             | -13.00      | -53.48      |
| 2487.0          | H               | -                   | -                          | -74.48               | -0.72       | 31.81                   | -63.45                             | -13.00      | -50.45      |
| 3316.0          | V               | -                   | -                          | -75.76               | 1.66        | 32.90                   | -62.35                             | -13.00      | -49.35      |

Table 7-14. Antenna 4 Radiated Spurious Data (LTE Band 26/5 – Low Channel)

|                  |        |
|------------------|--------|
| Bandwidth (MHz): | 10     |
| Frequency (MHz): | 836.5  |
| RB / Offset:     | 1 / 50 |


| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1673.0          | H               | -                   | -                          | -72.77               | -5.07       | 29.16                   | -66.10                             | -13.00      | -53.10      |
| 2509.5          | H               | -                   | -                          | -74.78               | -0.67       | 31.55                   | -63.71                             | -13.00      | -50.71      |
| 3346.0          | H               | -                   | -                          | -75.84               | 1.96        | 33.12                   | -62.13                             | -13.00      | -49.13      |

Table 7-15. Antenna 4 Radiated Spurious Data (LTE Band 26/5 – Mid Channel)

|                  |        |
|------------------|--------|
| Bandwidth (MHz): | 10     |
| Frequency (MHz): | 844.0  |
| RB / Offset:     | 1 / 50 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1688.0          | H               | 304                 | 156                        | -70.89               | -4.95       | 31.16                   | -64.10                             | -13.00      | -51.10      |
| 2532.0          | H               | -                   | -                          | -74.64               | -0.41       | 31.95                   | -63.31                             | -13.00      | -50.31      |
| 3376.0          | H               | -                   | -                          | -75.79               | 1.96        | 33.17                   | -62.08                             | -13.00      | -49.08      |
| 4220.0          | H               | -                   | -                          | -77.02               | 2.96        | 32.94                   | -62.31                             | -13.00      | -49.31      |

Table 7-16. Antenna 4 Radiated Spurious Data (LTE Band 26/5 – High Channel)

|   |  |                                   |
|---|--|-----------------------------------|
| FCC ID: BCGA2903                        |  PART 22 MEASUREMENT REPORT | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2311270064-07.BCG | Test Dates:<br>10/1/2023 - 3/21/2024   | EUT Type:<br>Tablet Device        |
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## ULCA LTE Band 5

|                      |        |
|----------------------|--------|
| PCC Bandwidth (MHz): | 10     |
| PCC Frequency (MHz): | 829.0  |
| PCC RB / Offset:     | 1 / 49 |
| SCC Bandwidth (MHz): | 10     |
| SCC Frequency (MHz): | 838.9  |
| SCC RB / Offset:     | 1 / 0  |


| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1658.0          | H               | -                   | -                          | -72.22               | -4.82       | 29.96                   | -65.30                             | -13.00      | -52.30      |
| 2487.0          | H               | -                   | -                          | -74.23               | -0.83       | 31.94                   | -63.32                             | -13.00      | -50.32      |
| 3316.0          | H               | -                   | -                          | -75.53               | 1.69        | 33.16                   | -62.10                             | -13.00      | -49.10      |
| 4145.0          | H               | -                   | -                          | -76.76               | 2.96        | 33.20                   | -62.06                             | -13.00      | -49.06      |

**Table 7-17. Antenna 4 Radiated Spurious Data (ULCA LTE Band 5 – Low Channel)**

|                      |        |
|----------------------|--------|
| PCC Bandwidth (MHz): | 10     |
| PCC Frequency (MHz): | 844.0  |
| PCC RB / Offset:     | 1 / 0  |
| SCC Bandwidth (MHz): | 10     |
| SCC Frequency (MHz): | 834.1  |
| SCC RB / Offset:     | 1 / 49 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1688.0          | H               | -                   | -                          | -72.46               | -4.24       | 30.30                   | -64.96                             | -13.00      | -51.96      |
| 2532.0          | H               | -                   | -                          | -73.86               | -0.40       | 32.74                   | -62.52                             | -13.00      | -49.52      |
| 3376.0          | H               | -                   | -                          | -75.75               | 2.06        | 33.31                   | -61.95                             | -13.00      | -48.95      |
| 4220.0          | H               | -                   | -                          | -76.93               | 2.89        | 32.96                   | -62.30                             | -13.00      | -49.30      |

**Table 7-18. Antenna 4 Radiated Spurious Data (ULCA LTE Band 5 – High Channel)**

|   |  |                                   |
|---|--|-----------------------------------|
| FCC ID: BCGA2903                        |  PART 22 MEASUREMENT REPORT | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2311270064-07.BCG | Test Dates:<br>10/1/2023 - 3/21/2024   | EUT Type:<br>Tablet Device        |
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## NR Band n26/5

|                  |        |
|------------------|--------|
| Bandwidth (MHz): | 20     |
| Frequency (MHz): | 834.0  |
| RB / Offset:     | 1 / 50 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1668.0          | H               | 111                 | 218                        | -72.40               | -3.54       | 31.06                   | -64.20                             | -13.00      | -51.20      |
| 2502.0          | H               | -                   | -                          | -77.29               | 1.08        | 30.79                   | -64.47                             | -13.00      | -51.47      |
| 3336.0          | H               | -                   | -                          | -78.13               | 2.41        | 31.29                   | -63.97                             | -13.00      | -50.97      |
| 4170.0          | H               | -                   | -                          | -78.13               | 3.52        | 32.39                   | -62.87                             | -13.00      | -49.87      |

**Table 7-19. Antenna 4 Radiated Spurious Data (NR Band n26/5 – Low Channel)**

|                  |        |
|------------------|--------|
| Bandwidth (MHz): | 20     |
| Frequency (MHz): | 836.5  |
| RB / Offset:     | 1 / 50 |


| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1673.0          | H               | 109                 | 225                        | -72.68               | -3.49       | 30.83                   | -64.43                             | -13.00      | -51.43      |
| 2509.5          | H               | -                   | -                          | -77.28               | 1.08        | 30.80                   | -64.46                             | -13.00      | -51.46      |
| 3346.0          | H               | -                   | -                          | -78.29               | 2.39        | 31.10                   | -64.16                             | -13.00      | -51.16      |
| 4182.5          | H               | -                   | -                          | -79.16               | 3.44        | 31.28                   | -63.98                             | -13.00      | -50.98      |

**Table 7-20. Antenna 4 Radiated Spurious Data (NR Band n26/5 – Mid Channel)**

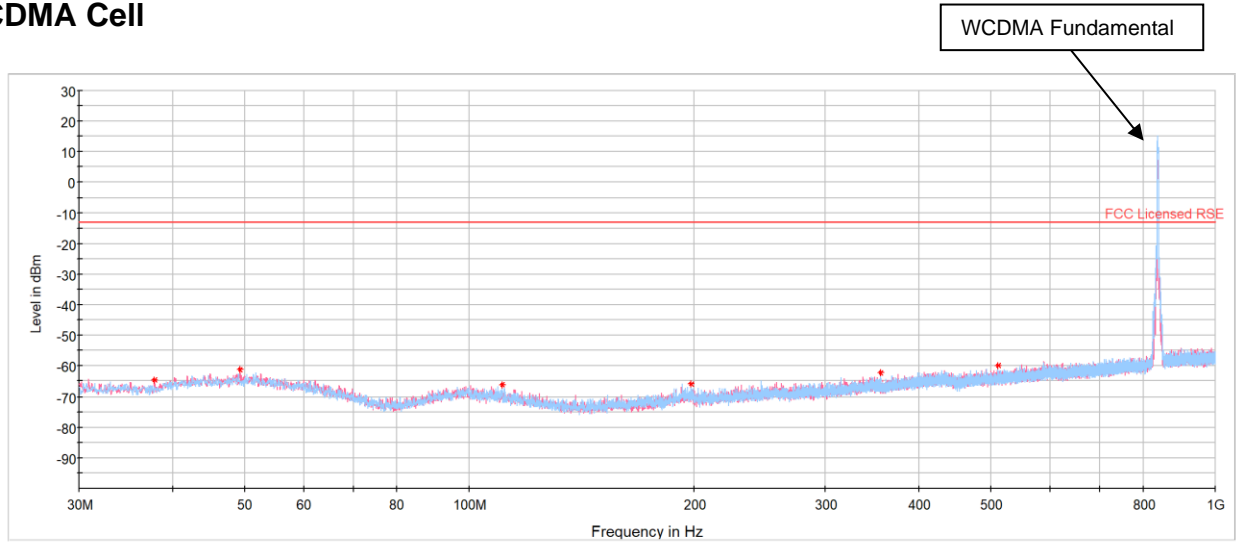
|                  |        |
|------------------|--------|
| Bandwidth (MHz): | 20     |
| Frequency (MHz): | 839.0  |
| RB / Offset:     | 1 / 50 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1678.0          | H               | 304                 | 156                        | -72.87               | -3.44       | 30.69                   | -64.57                             | -13.00      | -51.57      |
| 2517.0          | H               | -                   | -                          | -77.32               | 1.09        | 30.77                   | -64.49                             | -13.00      | -51.49      |
| 3356.0          | H               | -                   | -                          | -78.61               | 2.38        | 30.77                   | -64.49                             | -13.00      | -51.49      |
| 4195.0          | H               | -                   | -                          | -79.22               | 3.38        | 31.17                   | -64.09                             | -13.00      | -51.09      |

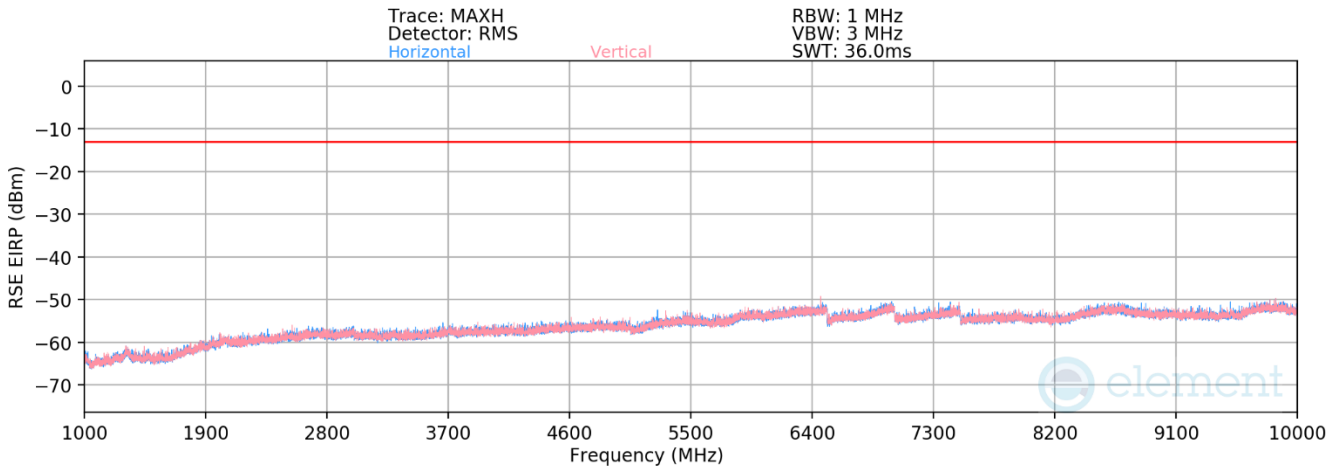
**Table 7-21. Antenna 4 Radiated Spurious Data (NR Band n26/5 – High Channel)**

|   |  |                                   |
|---|--|-----------------------------------|
| FCC ID: BCGA2903                        |  PART 22 MEASUREMENT REPORT | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2311270064-07.BCG | Test Dates:<br>10/1/2023 - 3/21/2024   | EUT Type:<br>Tablet Device        |
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### WCDMA Cell



**Plot 7-114. Antenna 4 Radiated Spurious Plot below 1GHz (WCDMA Cell)**



**Plot 7-115. Antenna 4 Radiated Spurious Plot above 1GHz (WCDMA Cell)**

|   |                                      |                                   |
|---|--------------------------------------|-----------------------------------|
| FCC ID: BCGA2903                        | PART 22 MEASUREMENT REPORT           | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2311270064-07.BCG | Test Dates:<br>10/1/2023 - 3/21/2024 | EUT Type:<br>Tablet Device        |
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|                  |           |
|------------------|-----------|
| Mode:            | WCDMA RMC |
| Channel:         | 4132      |
| Frequency (MHz): | 826.4     |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1652.8          | V               | -                   | -                          | -76.67               | -4.21       | 26.12                   | -69.14                             | -13.00      | -56.14      |
| 2479.2          | V               | -                   | -                          | -77.25               | 0.84        | 30.59                   | -64.66                             | -13.00      | -51.66      |
| 3305.6          | V               | -                   | -                          | -78.00               | 2.41        | 31.41                   | -63.85                             | -13.00      | -50.85      |

**Table 7-22. Antenna 4 Radiated Spurious Data (WCDMA Cell – Low Channel)**

|                  |           |
|------------------|-----------|
| Mode:            | WCDMA RMC |
| Channel:         | 4183      |
| Frequency (MHz): | 836.6     |


| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1673.2          | V               | -                   | -                          | -76.83               | -3.79       | 26.38                   | -68.87                             | -13.00      | -55.87      |
| 2509.8          | V               | -                   | -                          | -77.42               | 0.84        | 30.42                   | -64.84                             | -13.00      | -51.84      |
| 3346.4          | V               | -                   | -                          | -78.27               | 2.64        | 31.37                   | -63.89                             | -13.00      | -50.89      |

**Table 7-23. Antenna 4 Radiated Spurious Data (WCDMA Cell – Mid Channel)**

|                  |           |
|------------------|-----------|
| Mode:            | WCDMA RMC |
| Channel:         | 4233      |
| Frequency (MHz): | 846.6     |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1693.2          | V               | -                   | -                          | -76.61               | -3.75       | 26.64                   | -68.62                             | -13.00      | -55.62      |
| 2539.8          | V               | -                   | -                          | -77.53               | 1.12        | 30.59                   | -64.66                             | -13.00      | -51.66      |
| 3386.4          | V               | -                   | -                          | -78.52               | 2.44        | 30.92                   | -64.34                             | -13.00      | -51.34      |

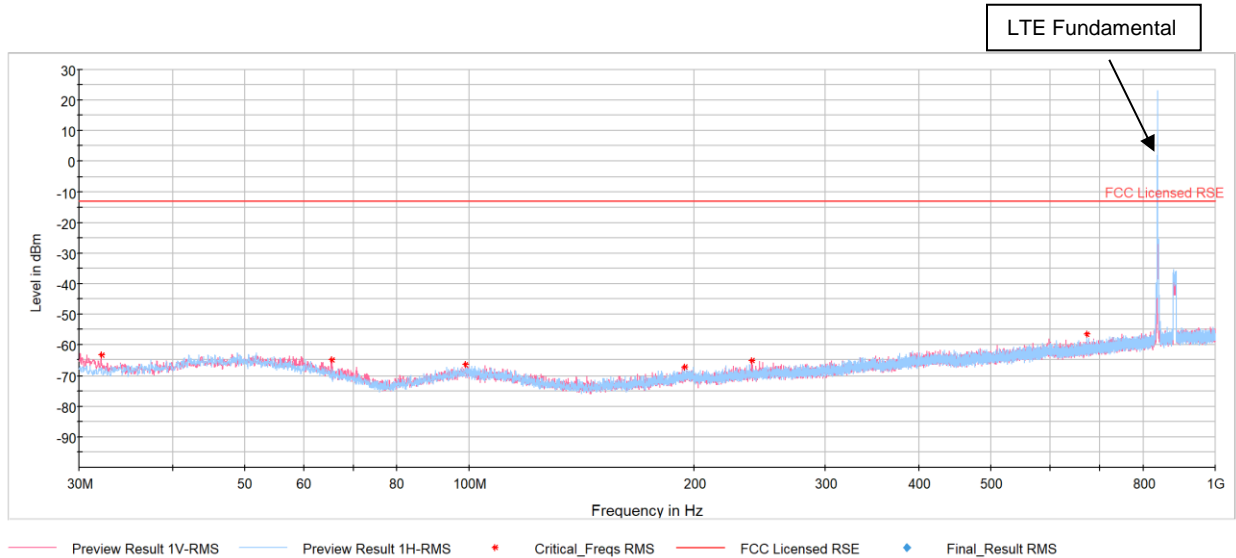
**Table 7-24. Antenna 4 Radiated Spurious Data (WCDMA Cell – High Channel)**

|   |  |                                   |
|---|--|-----------------------------------|
| FCC ID: BCGA2903                        |  PART 22 MEASUREMENT REPORT | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2311270064-07.BCG | Test Dates:<br>10/1/2023 - 3/21/2024   | EUT Type:<br>Tablet Device        |
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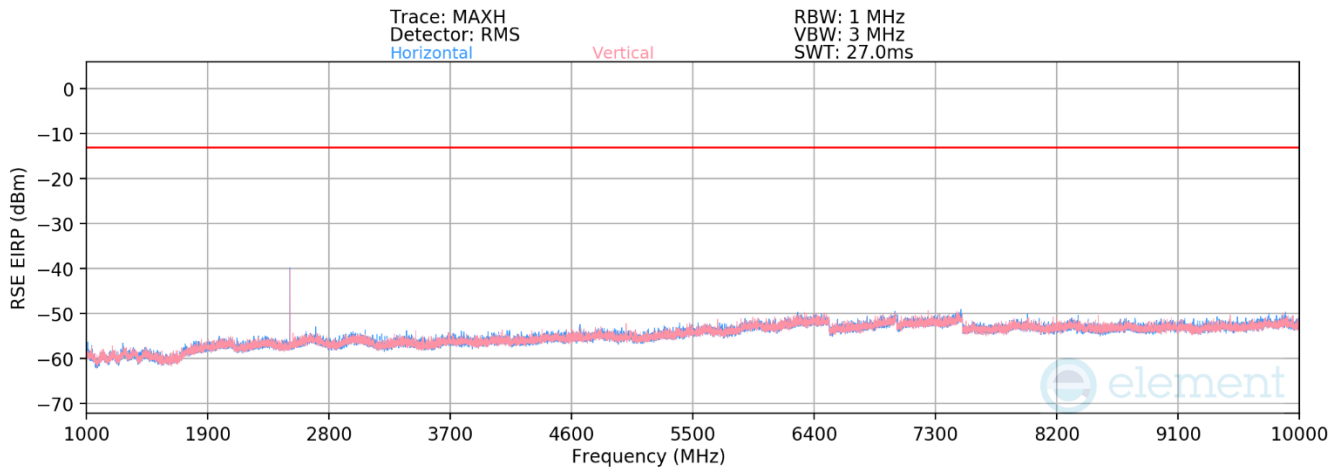


## 7.6.2 Antenna 3b – Radiated Spurious Emission Measurements


### LTE Band 26/5



**Plot 7-116. Antenna 3b Radiated Spurious Plot below 1GHz (LTE Band 26/5)**



**Plot 7-117. Antenna 3b Radiated Spurious Plot above 1GHz (LTE Band 26/5)**

|   |  |                                   |
|---|--|-----------------------------------|
| FCC ID: BCGA2903                        |  PART 22 MEASUREMENT REPORT | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2311270064-07.BCG | Test Dates:<br>10/1/2023 - 3/21/2024   | EUT Type:<br>Tablet Device        |
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|                  |        |
|------------------|--------|
| Bandwidth (MHz): | 10     |
| Frequency (MHz): | 829.0  |
| RB / Offset:     | 1 / 50 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1658.0          | H               | 111                 | 218                        | -70.45               | -5.07       | 31.48                   | -63.78                             | -13.00      | -50.78      |
| 2487.0          | V               | 187                 | 172                        | -57.18               | -0.76       | 49.06                   | -46.20                             | -13.00      | -33.20      |
| 3316.0          | H               | -                   | -                          | -75.73               | 1.66        | 32.93                   | -62.32                             | -13.00      | -49.32      |
| 4145.0          | V               | -                   | -                          | -77.23               | 3.12        | 32.89                   | -62.36                             | -13.00      | -49.36      |
| 4974.0          | V               | -                   | -                          | -79.28               | 4.40        | 32.12                   | -63.14                             | -13.00      | -50.14      |

**Table 7-25. Antenna 3b Radiated Spurious Data (LTE Band 26/5 – Low Channel)**

|                  |        |
|------------------|--------|
| Bandwidth (MHz): | 10     |
| Frequency (MHz): | 836.5  |
| RB / Offset:     | 1 / 50 |


| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1673.0          | H               | 109                 | 215                        | -71.21               | -5.03       | 30.76                   | -64.50                             | -13.00      | -51.50      |
| 2509.5          | H               | 132                 | 240                        | -55.04               | -0.67       | 51.29                   | -43.97                             | -13.00      | -30.97      |
| 3346.0          | H               | -                   | -                          | -77.25               | 2.93        | 32.68                   | -62.57                             | -13.00      | -49.57      |
| 4182.5          | H               | -                   | -                          | -78.23               | 2.94        | 31.71                   | -63.55                             | -13.00      | -50.55      |
| 5019.0          | H               | -                   | -                          | -79.26               | 4.47        | 32.21                   | -63.05                             | -13.00      | -50.05      |

**Table 7-26. Antenna 3b Radiated Spurious Data (LTE Band 26/5 – Mid Channel)**

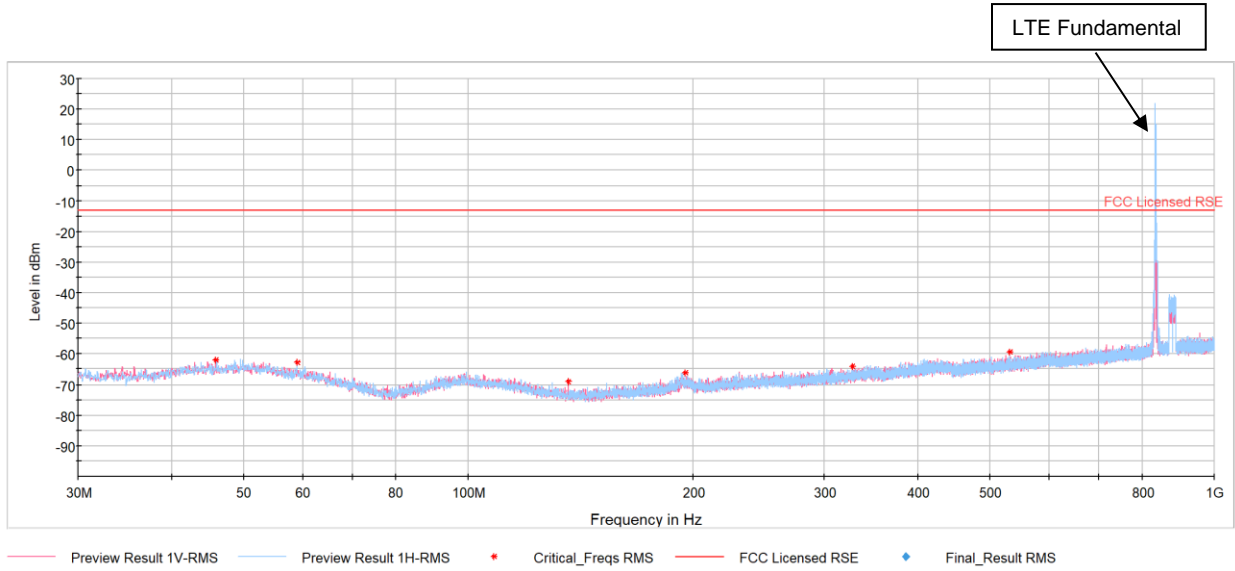
|                  |        |
|------------------|--------|
| Bandwidth (MHz): | 10     |
| Frequency (MHz): | 844.0  |
| RB / Offset:     | 1 / 50 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1688.0          | V               | 222                 | 169                        | -70.15               | -4.95       | 31.89                   | -63.36                             | -13.00      | -50.36      |
| 2532.0          | V               | 167                 | 166                        | -55.40               | -0.41       | 51.19                   | -44.07                             | -13.00      | -31.07      |
| 3376.0          | H               | -                   | -                          | -76.22               | 1.96        | 32.74                   | -62.51                             | -13.00      | -49.51      |
| 4220.0          | V               | -                   | -                          | -77.10               | 2.96        | 32.87                   | -62.39                             | -13.00      | -49.39      |
| 5064.0          | V               | -                   | -                          | -78.68               | 5.01        | 33.33                   | -61.93                             | -13.00      | -48.93      |

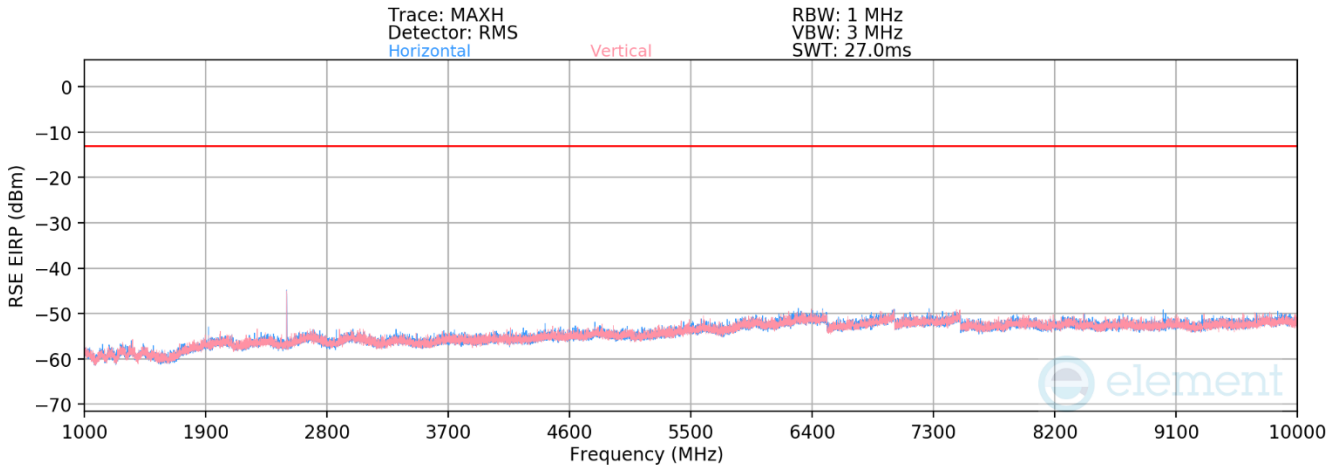
**Table 7-27. Antenna 3b Radiated Spurious Data (LTE Band 26/5 – High Channel)**

|   |  |                                   |
|---|--|-----------------------------------|
| FCC ID: BCGA2903                        |  PART 22 MEASUREMENT REPORT | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2311270064-07.BCG | Test Dates:<br>10/1/2023 - 3/21/2024   | EUT Type:<br>Tablet Device        |
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# ULCA LTE Band 5



**Plot 7-118. Antenna 3b Radiated Spurious Plot below 1GHz (ULCA LTE Band 5)**



**Plot 7-119. Antenna 3b Radiated Spurious Plot above 1GHz (ULCA LTE Band 5)**

|  |   |                                   |  |
|--|---|-----------------------------------|--|
| <b>FCC ID:</b> BCGA2903                        |  <b>PART 22 MEASUREMENT REPORT</b> |                                   | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1C2311270064-07.BCG | <b>Test Dates:</b><br>10/1/2023 - 3/21/2024   | <b>EUT Type:</b><br>Tablet Device | Page 100 of 109                          |

|                      |        |
|----------------------|--------|
| PCC Bandwidth (MHz): | 10     |
| PCC Frequency (MHz): | 829.0  |
| PCC RB / Offset:     | 1 / 49 |
| SCC Bandwidth (MHz): | 10     |
| SCC Frequency (MHz): | 838.9  |
| SCC RB / Offset:     | 1 / 0  |


| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1658.0          | H               | -                   | -                          | -72.83               | -4.82       | 29.35                   | -65.91                             | -13.00      | -52.91      |
| 2487.0          | H               | 117                 | 242                        | -62.93               | -0.83       | 43.24                   | -52.02                             | -13.00      | -39.02      |
| 3316.0          | H               | -                   | -                          | -75.82               | 1.69        | 32.87                   | -62.39                             | -13.00      | -49.39      |
| 4145.0          | H               | -                   | -                          | -77.36               | 2.96        | 32.60                   | -62.66                             | -13.00      | -49.66      |
| 4974.0          | H               | -                   | -                          | -78.03               | 4.43        | 33.40                   | -61.85                             | -13.00      | -48.85      |

**Table 7-28. Antenna 3b Radiated Spurious Data (ULCA LTE Band 5 – Low Channel)**

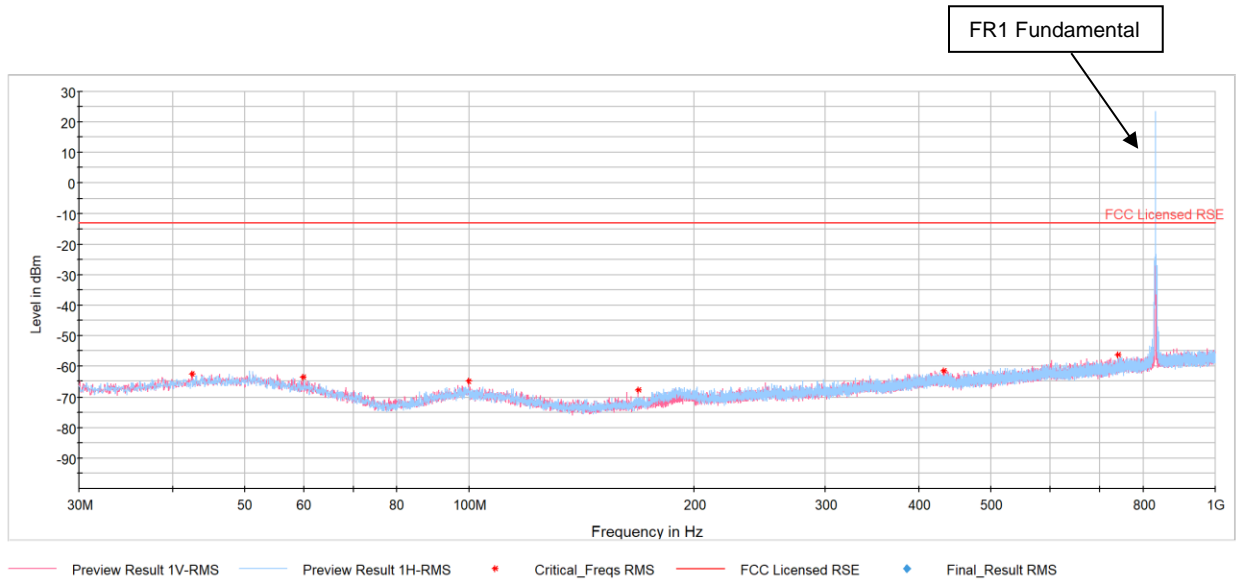
|                      |        |
|----------------------|--------|
| PCC Bandwidth (MHz): | 10     |
| PCC Frequency (MHz): | 844.0  |
| PCC RB / Offset:     | 1 / 0  |
| SCC Bandwidth (MHz): | 10     |
| SCC Frequency (MHz): | 834.1  |
| SCC RB / Offset:     | 1 / 49 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1688.0          | H               | -                   | -                          | -72.57               | -4.24       | 30.19                   | -65.07                             | -13.00      | -52.07      |
| 2532.0          | H               | 167                 | 237                        | -66.44               | -0.40       | 40.16                   | -55.10                             | -13.00      | -42.10      |
| 3376.0          | H               | -                   | -                          | -75.96               | 2.06        | 33.10                   | -62.16                             | -13.00      | -49.16      |
| 4220.0          | H               | -                   | -                          | -77.15               | 2.89        | 32.74                   | -62.52                             | -13.00      | -49.52      |
| 5064.0          | H               | -                   | -                          | -78.28               | 4.90        | 33.62                   | -61.64                             | -13.00      | -48.64      |

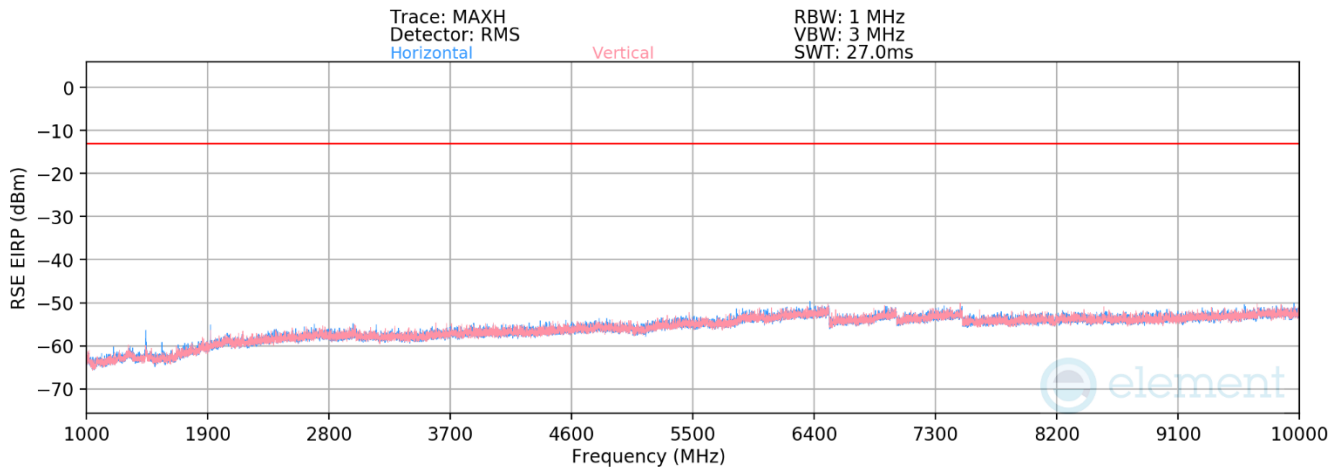
**Table 7-29. Antenna 3b Radiated Spurious Data (ULCA LTE Band 5 – High Channel)**

|   |  |                                   |
|---|--|-----------------------------------|
| FCC ID: BCGA2903                        |  PART 22 MEASUREMENT REPORT | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2311270064-07.BCG | Test Dates:<br>10/1/2023 - 3/21/2024   | EUT Type:<br>Tablet Device        |
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# NR Band n26/5



**Plot 7-120. Antenna 3b Radiated Spurious Plot below 1GHz (NR Band n26/5)**



**Plot 7-121. Antenna 3b Radiated Spurious Plot above 1GHz (NR Band n26/5)**

|  |   |                                   |  |
|--|---|-----------------------------------|--|
| <b>FCC ID:</b> BCGA2903                        | <b>PART 22 MEASUREMENT REPORT</b>           |                                   | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1C2311270064-07.BCG | <b>Test Dates:</b><br>10/1/2023 - 3/21/2024 | <b>EUT Type:</b><br>Tablet Device | Page 102 of 109                          |

|                         |        |
|-------------------------|--------|
| <b>Bandwidth (MHz):</b> | 20     |
| <b>Frequency (MHz):</b> | 834.0  |
| <b>RB / Offset:</b>     | 1 / 50 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1668.0          | H               | 111                 | 218                        | -71.26               | -3.54       | 32.20                   | -63.06                             | -13.00      | -50.06      |
| 2502.0          | H               | 187                 | 172                        | -77.46               | 1.08        | 30.62                   | -64.64                             | -13.00      | -51.64      |
| 3336.0          | H               | -                   | -                          | -78.06               | 2.41        | 31.36                   | -63.90                             | -13.00      | -50.90      |
| 4170.0          | H               | -                   | -                          | -79.74               | 3.52        | 30.78                   | -64.48                             | -13.00      | -51.48      |
| 5004.0          | H               | -                   | -                          | -79.82               | 4.89        | 32.07                   | -63.19                             | -13.00      | -50.19      |

**Table 7-30. Antenna 3b Radiated Spurious Data (NR Band n26/5 – Low Channel)**

|                         |        |
|-------------------------|--------|
| <b>Bandwidth (MHz):</b> | 20     |
| <b>Frequency (MHz):</b> | 836.5  |
| <b>RB / Offset:</b>     | 1 / 50 |


| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1673.0          | H               | 109                 | 215                        | -71.08               | -3.49       | 32.43                   | -62.83                             | -13.00      | -49.83      |
| 2509.5          | H               | 132                 | 240                        | -77.50               | 1.08        | 30.58                   | -64.68                             | -13.00      | -51.68      |
| 3346.0          | H               | -                   | -                          | -78.18               | 2.39        | 31.21                   | -64.05                             | -13.00      | -51.05      |
| 4182.5          | H               | -                   | -                          | -78.54               | 3.44        | 31.90                   | -63.36                             | -13.00      | -50.36      |
| 5019.0          | H               | -                   | -                          | -79.02               | 4.93        | 32.91                   | -62.34                             | -13.00      | -49.34      |

**Table 7-31. Antenna 3b Radiated Spurious Data (NR Band n26/5 – Mid Channel)**

|                         |        |
|-------------------------|--------|
| <b>Bandwidth (MHz):</b> | 20     |
| <b>Frequency (MHz):</b> | 839.0  |
| <b>RB / Offset:</b>     | 1 / 50 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1678.0          | H               | 222                 | 169                        | -70.85               | -3.44       | 32.71                   | -62.55                             | -13.00      | -49.55      |
| 2517.0          | H               | 167                 | 166                        | -77.47               | 1.09        | 30.62                   | -64.64                             | -13.00      | -51.64      |
| 3356.0          | H               | -                   | -                          | -78.37               | 2.38        | 31.01                   | -64.25                             | -13.00      | -51.25      |
| 4195.0          | H               | -                   | -                          | -78.42               | 3.38        | 31.97                   | -63.29                             | -13.00      | -50.29      |
| 5034.0          | H               | -                   | -                          | -79.35               | 5.02        | 32.67                   | -62.59                             | -13.00      | -49.59      |

**Table 7-32. Antenna 3b Radiated Spurious Data (NR Band n26/5 – High Channel)**

|  |   |  |
|--|---|--|
| <b>FCC ID:</b> BCGA2903                        |  <b>PART 22 MEASUREMENT REPORT</b> | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1C2311270064-07.BCG | <b>Test Dates:</b><br>10/1/2023 - 3/21/2024   | <b>EUT Type:</b><br>Tablet Device        |
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## WCDMA Cell

|                  |           |
|------------------|-----------|
| Mode:            | WCDMA RMC |
| Channel:         | 4132      |
| Frequency (MHz): | 826.4     |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1652.8          | H               | -                   | -                          | -76.62               | -4.21       | 26.16                   | -69.09                             | -13.00      | -56.09      |
| 2479.2          | H               | -                   | -                          | -77.41               | 0.87        | 30.46                   | -64.80                             | -13.00      | -51.80      |
| 3305.6          | H               | -                   | -                          | -77.90               | 2.41        | 31.51                   | -63.75                             | -13.00      | -50.75      |

**Table 7-33. Antenna 3b Radiated Spurious Data (WCDMA Cell – Low Channel)**

|                  |           |
|------------------|-----------|
| Mode:            | WCDMA RMC |
| Channel:         | 4183      |
| Frequency (MHz): | 836.6     |


| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1673.2          | H               | -                   | -                          | -76.87               | -3.73       | 26.41                   | -68.85                             | -13.00      | -55.85      |
| 2509.8          | H               | -                   | -                          | -77.30               | 0.84        | 30.54                   | -64.71                             | -13.00      | -51.71      |
| 3346.4          | H               | -                   | -                          | -78.37               | 2.64        | 31.27                   | -63.99                             | -13.00      | -50.99      |

**Table 7-34. Antenna 3b Radiated Spurious Data (WCDMA Cell – Mid Channel)**

|                  |           |
|------------------|-----------|
| Mode:            | WCDMA RMC |
| Channel:         | 4233      |
| Frequency (MHz): | 846.6     |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1693.2          | H               | -                   | -                          | -76.52               | -3.79       | 26.69                   | -68.57                             | -13.00      | -55.57      |
| 2539.8          | H               | -                   | -                          | -77.59               | 1.12        | 30.53                   | -64.72                             | -13.00      | -51.72      |
| 3386.4          | H               | -                   | -                          | -78.58               | 2.44        | 30.86                   | -64.40                             | -13.00      | -51.40      |

**Table 7-35. Antenna 3b Radiated Spurious Data (WCDMA Cell – High Channel)**

|   |  |                                   |
|---|--|-----------------------------------|
| FCC ID: BCGA2903                        |  PART 22 MEASUREMENT REPORT | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2311270064-07.BCG | Test Dates:<br>10/1/2023 - 3/21/2024   | EUT Type:<br>Tablet Device        |
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## 7.7 Frequency Stability / Temperature Variation

§2.1055, 22.355

### Test Overview and Limit

Frequency Tolerance testing is performed in accordance with the guidelines of ANSI C63.26-2015 and TIA-603-E-2016. All port were tested and only the worst case data were reported. The Frequency Tolerance of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

***For Part 22, the Frequency Tolerance of the transmitter shall be maintained within  $\pm 0.00025\%$  ( $\pm 2.5$  ppm) of the center frequency.***

### Test Procedure Used

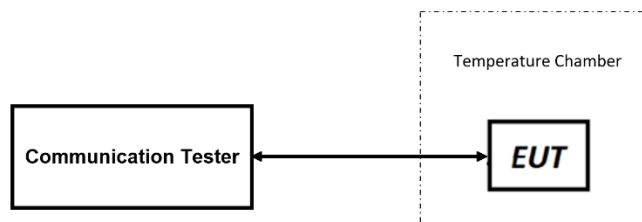
ANSI C63.26-2015

TIA-603-E-2016

### Test Settings

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.


### Test Setup



**Figure 7-7. Test Instrument & Measurement Setup**

### Test Notes

1. All port were tested and only the worst case data were reported.

|   |  |                                   |
|---|--|-----------------------------------|
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## Frequency Tolerance / Temperature Variation

| <b>LTE Band 26/5</b> |             |                           |                       |                 |               |
|----------------------|-------------|---------------------------|-----------------------|-----------------|---------------|
|                      |             | Operating Frequency (Hz): | 836,500,000           |                 |               |
|                      |             | Ref. Voltage (VDC):       | 3.80                  |                 |               |
|                      |             | Deviation Limit:          | ± 0.00025% or 2.5 ppm |                 |               |
| Voltage (%)          | Power (VDC) | Temp (°C)                 | Frequency (Hz)        | Freq. Dev. (Hz) | Deviation (%) |
| 100 %                | 3.80        | - 30                      | 836,500,042           | 42.00           | 0.0000050     |
|                      |             | - 20                      | 836,500,037           | 37.00           | 0.0000044     |
|                      |             | - 10                      | 836,499,976           | -24.00          | -0.0000029    |
|                      |             | 0                         | 836,499,969           | -31.00          | -0.0000037    |
|                      |             | + 10                      | 836,499,967           | -33.00          | -0.0000039    |
|                      |             | + 20 (Ref)                | 836,500,000           | 0.00            | 0.0000000     |
|                      |             | + 30                      | 836,500,039           | 39.00           | 0.0000047     |
|                      |             | + 40                      | 836,500,031           | 31.00           | 0.0000037     |
| Battery Endpoint     | 3.40        | + 50                      | 836,499,964           | -36.00          | -0.0000043    |
|                      |             | + 20                      | 836,500,023           | 23.00           | 0.0000027     |

**Table 7-36. LTE Band 26/5 Frequency Tolerance Data**


|   |  |                                   |
|---|--|-----------------------------------|
| FCC ID: BCGA2903                        |  PART 22 MEASUREMENT REPORT | Approved by:<br>Technical Manager |
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## Frequency Tolerance / Temperature Variation

| <b>NR Band n26/5</b> |             |                           |                       |                 |               |
|----------------------|-------------|---------------------------|-----------------------|-----------------|---------------|
|                      |             | Operating Frequency (Hz): | 836,500,000           |                 |               |
|                      |             | Ref. Voltage (VDC):       | 3.80                  |                 |               |
|                      |             | Deviation Limit:          | ± 0.00025% or 2.5 ppm |                 |               |
| Voltage (%)          | Power (VDC) | Temp (°C)                 | Frequency (Hz)        | Freq. Dev. (Hz) | Deviation (%) |
| 100 %                | 3.80        | - 30                      | 836,500,015           | 15.00           | 0.0000018     |
|                      |             | - 20                      | 836,500,032           | 32.00           | 0.0000038     |
|                      |             | - 10                      | 836,500,012           | 12.00           | 0.0000014     |
|                      |             | 0                         | 836,500,036           | 36.00           | 0.0000043     |
|                      |             | + 10                      | 836,500,045           | 45.00           | 0.0000054     |
|                      |             | + 20 (Ref)                | 836,500,000           | 0.00            | 0.0000000     |
|                      |             | + 30                      | 836,500,009           | 9.00            | 0.0000011     |
|                      |             | + 40                      | 836,500,056           | 56.00           | 0.0000067     |
|                      |             | + 50                      | 836,500,035           | 35.00           | 0.0000042     |
| Battery Endpoint     | 3.40        | + 20                      | 836,500,013           | 13.00           | 0.0000016     |

**Table 7-37. NR Band n26/n5 Frequency Tolerance Data**


|   |  |                                   |
|---|--|-----------------------------------|
| FCC ID: BCGA2903                        |  PART 22 MEASUREMENT REPORT | Approved by:<br>Technical Manager |
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## Frequency Tolerance / Temperature Variation

| <b>WCDMA Cellular</b> |             |                           |                       |                 |               |
|-----------------------|-------------|---------------------------|-----------------------|-----------------|---------------|
|                       |             | Operating Frequency (Hz): | 836,600,000           |                 |               |
|                       |             | Ref. Voltage (VDC):       | 3.80                  |                 |               |
|                       |             | Deviation Limit:          | ± 0.00025% or 2.5 ppm |                 |               |
| Voltage (%)           | Power (VDC) | Temp (°C)                 | Frequency (Hz)        | Freq. Dev. (Hz) | Deviation (%) |
| 100 %                 | 3.80        | - 30                      | 836,599,981           | -19.00          | -0.0000023    |
|                       |             | - 20                      | 836,600,032           | 32.00           | 0.0000038     |
|                       |             | - 10                      | 836,599,978           | -22.00          | -0.0000026    |
|                       |             | 0                         | 836,599,960           | -40.00          | -0.0000048    |
|                       |             | + 10                      | 836,600,021           | 21.00           | 0.0000025     |
|                       |             | + 20 (Ref)                | 836,600,000           | 0.00            | 0.0000000     |
|                       |             | + 30                      | 836,599,962           | -38.00          | -0.0000045    |
|                       |             | + 40                      | 836,600,019           | 19.00           | 0.0000023     |
|                       |             | + 50                      | 836,600,023           | 23.00           | 0.0000027     |
| Battery Endpoint      | 3.40        | + 20                      | 836,600,035           | 35.00           | 0.0000042     |


**Table 7-38. WCDMA Cell Frequency Tolerance Data**

|   |   |                            |  |                                   |
|---|---|----------------------------|--|-----------------------------------|
| FCC ID: BCGA2903                        |  | PART 22 MEASUREMENT REPORT |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2311270064-07.BCG | Test Dates:<br>10/1/2023 - 3/21/2024  | EUT Type:<br>Tablet Device |  | Page 108 of 109                   |

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## 8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the Apple **Tablet Device** **FCC ID: BCGA2903** complies with all the requirements of Part 22 of the FCC rules.

|  |   |                                   |  |
|--|---|-----------------------------------|--|
| <b>FCC ID:</b> BCGA2903                        |  <b>PART 22 MEASUREMENT REPORT</b> |                                   | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1C2311270064-07.BCG | <b>Test Dates:</b><br>10/1/2023 - 3/21/2024   | <b>EUT Type:</b><br>Tablet Device | Page 109 of 109                          |

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