

7.7.2 Antenna 1 – Radiated Spurious Emission Measurement

LTE Band 71

| Bandwidth (MHz): | 20 | | | | | | | | |
|------------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| Frequency (MHz): | 673.0 | | | | | | | | |
| 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] |
| 1346.0 | H | - | - | -76.90 | -1.18 | 28.92 | -66.34 | -13.00 | -53.34 |
| 2019.0 | H | - | - | -77.76 | 1.78 | 31.02 | -64.24 | -13.00 | -51.24 |
| 2692.0 | H | - | - | -78.62 | 3.60 | 31.98 | -63.28 | -13.00 | -50.28 |


Table 7-46. Antenna 1 Radiated Spurious Data (LTE Band 71 – Low Channel)

| Bandwidth (MHz): | 20 | | | | | | | | |
|------------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| Frequency (MHz): | 680.5 | | | | | | | | |
| 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] |
| 1361.0 | H | - | - | -76.81 | -1.34 | 28.85 | -66.41 | -13.00 | -53.41 |
| 2041.5 | H | - | - | -77.65 | 1.60 | 30.95 | -64.31 | -13.00 | -51.31 |
| 2722.0 | H | - | - | -78.73 | 3.87 | 32.14 | -63.12 | -13.00 | -50.12 |

Table 7-47. Antenna 1 Radiated Spurious Data (LTE Band 71 – Mid Channel)

| Bandwidth (MHz): | 20 | | | | | | | | |
|------------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| Frequency (MHz): | 688.0 | | | | | | | | |
| 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] |
| 1376.0 | H | - | - | -76.64 | -1.32 | 29.04 | -66.21 | -13.00 | -53.21 |
| 2064.0 | H | - | - | -77.19 | 1.73 | 31.54 | -63.72 | -13.00 | -50.72 |
| 2752.0 | H | - | - | -78.61 | 3.70 | 32.09 | -63.17 | -13.00 | -50.17 |

Table 7-48. Antenna 1 Radiated Spurious Data (LTE Band 71 – High Channel)

| | | | |
|---|---|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 |  PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
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LTE Band 12/17

| Bandwidth (MHz): | 10 | | | | | | | | |
|------------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| Frequency (MHz): | 704.0 | | | | | | | | |
| RB / Offset: | 1 / 25 | | | | | | | | |
| 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] |
| 1408.0 | H | - | - | -77.30 | -1.65 | 28.05 | -67.21 | -13.00 | -54.21 |
| 2112.0 | H | - | - | -78.62 | 1.70 | 30.08 | -65.18 | -13.00 | -52.18 |
| 2816.0 | H | - | - | -78.96 | 3.33 | 31.37 | -63.89 | -13.00 | -50.89 |


Table 7-49. Antenna 1 Radiated Spurious Data (LTE Band 12/17 – Low Channel)

| Bandwidth (MHz): | 10 | | | | | | | | |
|------------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| Frequency (MHz): | 707.5 | | | | | | | | |
| RB / Offset: | 1 / 25 | | | | | | | | |
| 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] |
| 1415.0 | H | - | - | -77.40 | -1.60 | 28.00 | -67.26 | -13.00 | -54.26 |
| 2122.5 | H | - | - | -78.43 | 1.72 | 30.29 | -64.97 | -13.00 | -51.97 |
| 2830.0 | H | - | - | -78.84 | 3.24 | 31.40 | -63.86 | -13.00 | -50.86 |

Table 7-50. Antenna 1 Radiated Spurious Data (LTE Band 12/17 – Mid Channel)

| Bandwidth (MHz): | 10 | | | | | | | | |
|------------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| Frequency (MHz): | 711.0 | | | | | | | | |
| RB / Offset: | 1 / 25 | | | | | | | | |
| 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] |
| 1422.0 | H | - | - | -77.56 | -1.54 | 27.90 | -67.36 | -13.00 | -54.36 |
| 2133.0 | H | - | - | -78.36 | 1.87 | 30.51 | -64.75 | -13.00 | -51.75 |
| 2844.0 | H | - | - | -78.84 | 3.07 | 31.23 | -64.03 | -13.00 | -51.03 |

Table 7-51. Antenna 1 Radiated Spurious Data (LTE Band 12/17 – High Channel)

| | | | |
|---|---|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 |  PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
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LTE Band 13

| Bandwidth (MHz): | 5 | | | | | | | | |
|------------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| Frequency (MHz): | 779.5 | | | | | | | | |
| RB / Offset: | 1 / 12 | | | | | | | | |
| 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] |
| 1559.0 | H | - | - | -78.72 | -2.10 | 26.18 | -69.07 | -40.00 | -29.07 |
| 2338.5 | H | - | - | -78.19 | 2.00 | 30.81 | -64.45 | -13.00 | -51.45 |
| 3118.0 | H | - | - | -78.64 | 3.79 | 32.15 | -63.11 | -13.00 | -50.11 |


Table 7-52. Antenna 1 Radiated Spurious Data (LTE Band 13 – Low Channel)

| Bandwidth (MHz): | 10 | | | | | | | | |
|------------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| Frequency (MHz): | 782.0 | | | | | | | | |
| RB / Offset: | 1 / 25 | | | | | | | | |
| 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] |
| 1564.0 | H | - | - | -78.75 | -2.10 | 26.15 | -69.10 | -40.00 | -29.10 |
| 2346.0 | H | - | - | -78.11 | 2.00 | 30.89 | -64.37 | -13.00 | -51.37 |
| 3128.0 | H | - | - | -78.87 | 3.79 | 31.92 | -63.34 | -13.00 | -50.34 |

Table 7-53. Antenna 1 Radiated Spurious Data (LTE Band 13 – Mid Channel)

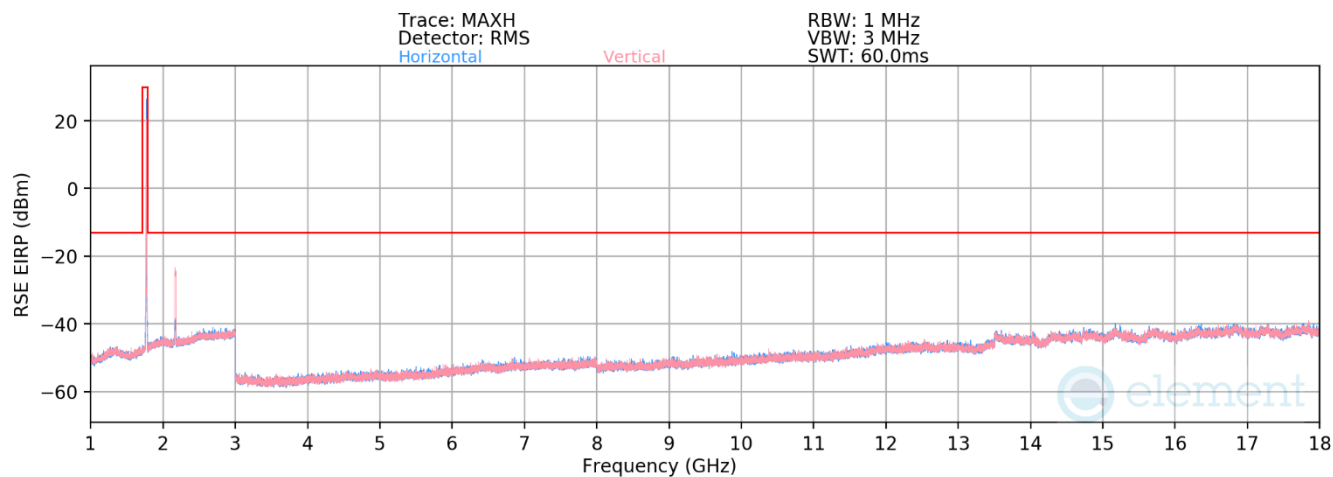
| Bandwidth (MHz): | 5 | | | | | | | | |
|------------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| Frequency (MHz): | 784.5 | | | | | | | | |
| RB / Offset: | 1 / 12 | | | | | | | | |
| 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] |
| 1569.0 | H | - | - | -78.43 | -2.10 | 26.47 | -68.78 | -40.00 | -28.78 |
| 2353.5 | H | - | - | -79.07 | 2.00 | 29.93 | -65.33 | -13.00 | -52.33 |
| 3138.0 | H | - | - | -79.50 | 3.79 | 31.29 | -63.97 | -13.00 | -50.97 |

Table 7-54. Antenna 1 Radiated Spurious Data (LTE Band 13 – High Channel)


| | | | |
|---|---|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 |  PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
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LTE Band 66/4



Plot 7-447. Antenna 1 Radiated Spurious Emission above 1GHz (LTE Band 66/4)

| | | | |
|---|---|----------------------------|-----------------------------------|
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| | |
|------------------|--------|
| Bandwidth (MHz): | 20 |
| Frequency (MHz): | 1720.0 |
| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3440.0 | V | 335 | 345 | -77.23 | 4.93 | 34.70 | -60.56 | -13.00 | -47.56 |
| 5160.0 | V | - | - | -80.43 | 7.51 | 34.08 | -61.18 | -13.00 | -48.18 |
| 6880.0 | V | - | - | -80.58 | 10.24 | 36.66 | -58.60 | -13.00 | -45.60 |

Table 7-55. Antenna 1 Radiated Spurious Data (LTE Band 66/4 – Low Channel)

| | |
|------------------|--------|
| Bandwidth (MHz): | 20 |
| Frequency (MHz): | 1745.0 |
| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3490.0 | V | - | - | -79.12 | 5.40 | 33.28 | -61.98 | -13.00 | -48.98 |
| 5235.0 | V | - | - | -80.00 | 7.36 | 34.36 | -60.89 | -13.00 | -47.89 |
| 6980.0 | V | - | - | -80.14 | 9.92 | 36.78 | -58.48 | -13.00 | -45.48 |

Table 7-56. Antenna 1 Radiated Spurious Data (LTE Band 66/4 – Mid Channel)

| | |
|------------------|--------|
| Bandwidth (MHz): | 20 |
| Frequency (MHz): | 1770.0 |
| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3540.0 | V | - | - | -79.20 | 5.64 | 33.44 | -61.82 | -13.00 | -48.82 |
| 5310.0 | V | - | - | -79.90 | 7.58 | 34.68 | -60.58 | -13.00 | -47.58 |
| 7080.0 | V | - | - | -80.20 | 10.37 | 37.17 | -58.09 | -13.00 | -45.09 |

Table 7-57. Antenna 1 Radiated Spurious Data (LTE Band 66/4 – High Channel)

| | | | |
|---|---|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 |  PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
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NR Band n71

| Bandwidth (MHz): | 20 | | | | | | | | |
|------------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| Frequency (MHz): | 673.0 | | | | | | | | |
| 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] |
| 1346.0 | H | - | - | -77.40 | -2.90 | 26.70 | -68.56 | -13.00 | -55.56 |
| 2019.0 | V | 378 | 336 | -74.46 | 0.72 | 33.26 | -62.00 | -13.00 | -49.00 |
| 2692.0 | H | - | - | -78.26 | 2.33 | 31.07 | -64.19 | -13.00 | -51.19 |
| 3365.0 | H | - | - | -78.47 | 2.45 | 30.98 | -64.28 | -13.00 | -51.28 |
| 4038.0 | H | - | - | -78.73 | 3.80 | 32.07 | -63.18 | -13.00 | -50.18 |


Table 7-58. Antenna 1 Radiated Spurious Data (NR Band n71 – Low Channel)

| Bandwidth (MHz): | 20 | | | | | | | | |
|------------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| Frequency (MHz): | 680.5 | | | | | | | | |
| 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] |
| 1361.0 | H | - | - | -77.51 | -3.32 | 26.17 | -69.09 | -13.00 | -56.09 |
| 2041.5 | H | 398 | 335 | -72.72 | 0.52 | 34.80 | -60.46 | -13.00 | -47.46 |
| 2722.0 | H | - | - | -77.82 | 2.40 | 31.58 | -63.68 | -13.00 | -50.68 |
| 3402.5 | H | - | - | -78.76 | 2.62 | 30.86 | -64.40 | -13.00 | -51.40 |
| 4083.0 | H | - | - | -79.04 | 3.65 | 31.61 | -63.65 | -13.00 | -50.65 |

Table 7-59. Antenna 1 Radiated Spurious Data (NR Band n71 – Mid Channel)

| Bandwidth (MHz): | 20 | | | | | | | | |
|------------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| Frequency (MHz): | 688.0 | | | | | | | | |
| 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] |
| 1376.0 | H | - | - | -77.60 | -3.71 | 25.69 | -69.57 | -13.00 | -56.57 |
| 2064.0 | H | 400 | 339 | -73.03 | 0.16 | 34.13 | -61.12 | -13.00 | -48.12 |
| 2752.0 | H | - | - | -77.78 | 2.19 | 31.41 | -63.85 | -13.00 | -50.85 |
| 3440.0 | H | - | - | -78.76 | 2.96 | 31.20 | -64.06 | -13.00 | -51.06 |
| 4128.0 | H | - | - | -78.78 | 3.56 | 31.78 | -63.48 | -13.00 | -50.48 |

Table 7-60. Antenna 1 Radiated Spurious Data (NR Band n71 – High Channel)

| | | | |
|---|---|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 |  PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
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NR Band n12

| Bandwidth (MHz): | 15 | | | | | | | | |
|------------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| Frequency (MHz): | 706.5 | | | | | | | | |
| RB / Offset: | 1 / 37 | | | | | | | | |
| 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] |
| 1413.0 | V | - | - | -77.39 | -1.60 | 28.01 | -67.25 | -13.00 | -54.25 |
| 2119.5 | V | - | - | -78.27 | 1.72 | 30.45 | -64.81 | -13.00 | -51.81 |
| 2826.0 | V | - | - | -78.83 | 3.24 | 31.41 | -63.85 | -13.00 | -50.85 |


Table 7-61. Antenna 1 Radiated Spurious Data (NR Band n12 – Low Channel)

| Bandwidth (MHz): | 15 | | | | | | | | |
|------------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| Frequency (MHz): | 707.5 | | | | | | | | |
| RB / Offset: | 1 / 37 | | | | | | | | |
| 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] |
| 1415.0 | V | - | - | -77.39 | -1.60 | 28.01 | -67.25 | -13.00 | -54.25 |
| 2122.5 | V | - | - | -78.27 | 1.72 | 30.45 | -64.81 | -13.00 | -51.81 |
| 2830.0 | V | - | - | -78.83 | 3.24 | 31.41 | -63.85 | -13.00 | -50.85 |

Table 7-62. Antenna 1 Radiated Spurious Data (NR Band n12 – Mid Channel)

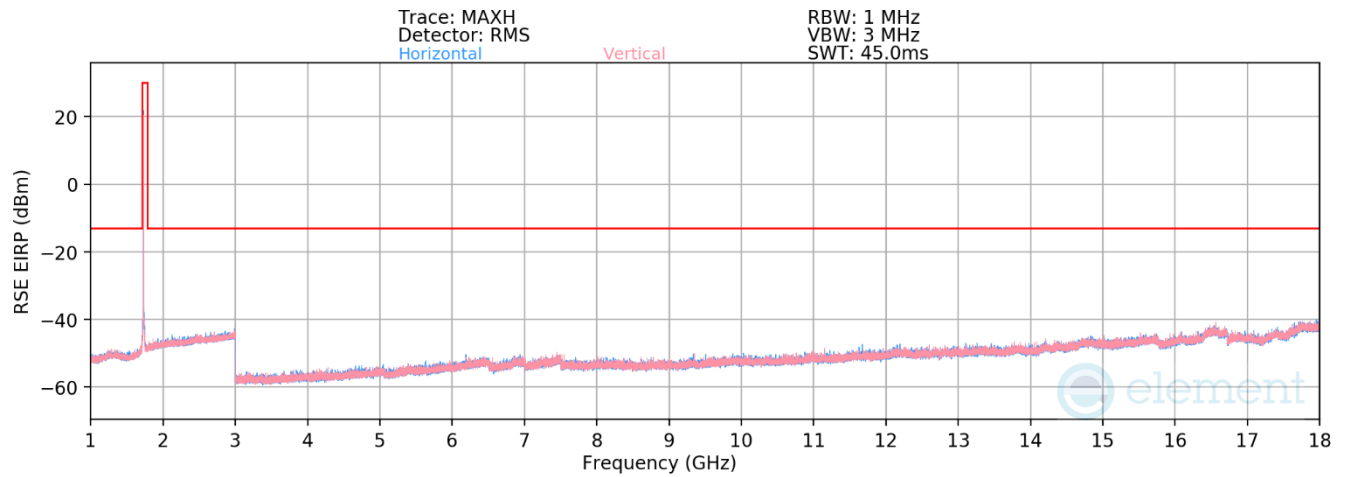
| Bandwidth (MHz): | 15 | | | | | | | | |
|------------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| Frequency (MHz): | 708.5 | | | | | | | | |
| RB / Offset: | 1 / 37 | | | | | | | | |
| 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] |
| 1417.0 | V | - | - | -77.18 | -1.58 | 28.24 | -67.02 | -13.00 | -54.02 |
| 2125.5 | V | - | - | -78.21 | 1.76 | 30.55 | -64.71 | -13.00 | -51.71 |
| 2834.0 | V | - | - | -78.75 | 3.23 | 31.48 | -63.78 | -13.00 | -50.78 |

Table 7-63. Antenna 1 Radiated Spurious Data (NR Band n12 – High Channel)


| | | | |
|---|---|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 |  PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
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NR Band n66



Plot 7-448. Antenna 1 Radiated Spurious Emission above 1GHz (NR Band n66)

| | | | |
|--|---|-----------------------------------|--|
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| | |
|------------------|---------|
| Bandwidth (MHz): | 40 |
| Frequency (MHz): | 1730.0 |
| RB / Offset: | 1 / 108 |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3460.0 | H | - | - | -77.68 | 1.42 | 30.74 | -64.51 | -13.00 | -51.51 |
| 5190.0 | H | - | - | -79.45 | 4.59 | 32.14 | -63.12 | -13.00 | -50.12 |
| 6920.0 | H | - | - | -80.48 | 8.59 | 35.11 | -60.15 | -13.00 | -47.15 |

Table 7-64. Antenna 1 Radiated Spurious Data (NR Band n66 – Low Channel)

| | |
|------------------|---------|
| Bandwidth (MHz): | 40 |
| Frequency (MHz): | 1745.0 |
| RB / Offset: | 1 / 108 |


| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3490.0 | H | - | - | -77.65 | 1.51 | 30.86 | -64.39 | -13.00 | -51.39 |
| 5235.0 | H | - | - | -79.38 | 4.73 | 32.35 | -62.91 | -13.00 | -49.91 |
| 6980.0 | H | - | - | -80.34 | 8.11 | 34.77 | -60.49 | -13.00 | -47.49 |

Table 7-65. Antenna 1 Radiated Spurious Data (NR Band n66 – Mid Channel)

| | |
|------------------|---------|
| Bandwidth (MHz): | 40 |
| Frequency (MHz): | 1760.0 |
| RB / Offset: | 1 / 108 |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3520.0 | H | - | - | -77.65 | 1.62 | 30.97 | -64.29 | -13.00 | -51.29 |
| 5280.0 | H | - | - | -79.42 | 4.95 | 32.53 | -62.73 | -13.00 | -49.73 |
| 7040.0 | H | - | - | -80.77 | 8.10 | 34.33 | -60.93 | -13.00 | -47.93 |

Table 7-66. Antenna 1 Radiated Spurious Data (NR Band n66 – High Channel)

| | | | |
|---|---|-----------------------------------|--|
| FCC ID: BCGA2435 |  | PART 27 MEASUREMENT REPORT | Approved by: Technical Manager |
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NR Band n70

| | |
|------------------|--------|
| Bandwidth (MHz): | 10 |
| Frequency (MHz): | 1700.0 |
| RB / Offset: | 1/25 |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3400.0 | H | 219 | 65 | -75.22 | 4.93 | 36.71 | -58.55 | -13.00 | -45.55 |
| 5100.0 | H | - | - | -80.32 | 7.70 | 34.38 | -60.87 | -13.00 | -47.87 |
| 6800.0 | H | - | - | -80.94 | 10.20 | 36.26 | -59.00 | -13.00 | -46.00 |
| 8500.0 | H | - | - | -81.24 | 11.56 | 37.32 | -57.93 | -13.00 | -44.93 |

Table 7-67. Antenna 1 Radiated Spurious Data (NR Band n70 – Low Channel)

| | |
|------------------|--------|
| Bandwidth (MHz): | 15 |
| Frequency (MHz): | 1702.5 |
| RB / Offset: | 1/37 |


| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3405.0 | H | 221 | 117 | -75.60 | 4.94 | 36.34 | -58.92 | -13.00 | -45.92 |
| 5107.5 | H | - | - | -80.46 | 7.75 | 34.29 | -60.96 | -13.00 | -47.96 |
| 6810.0 | H | - | - | -80.88 | 10.18 | 36.30 | -58.96 | -13.00 | -45.96 |
| 8512.5 | H | - | - | -81.57 | 11.33 | 36.76 | -58.49 | -13.00 | -45.49 |

Table 7-68. Antenna 1 Radiated Spurious Data (NR Band n70 – Mid Channel)

| | |
|------------------|--------|
| Bandwidth (MHz): | 10 |
| Frequency (MHz): | 1705.0 |
| RB / Offset: | 1/25 |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3410.0 | H | 219 | 64 | -75.68 | 4.94 | 36.26 | -58.99 | -13.00 | -45.99 |
| 5115.0 | H | - | - | -80.58 | 7.78 | 34.20 | -61.05 | -13.00 | -48.05 |
| 6820.0 | H | - | - | -80.87 | 10.24 | 36.37 | -58.88 | -13.00 | -45.88 |
| 8525.0 | H | - | - | -81.53 | 11.29 | 36.76 | -58.50 | -13.00 | -45.50 |

Table 7-69. Antenna 1 Radiated Spurious Data (NR Band n70 – High Channel)

| | | | |
|---|---|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 |  PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
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WCDMA AWS

| | |
|------------------|-----------|
| Mode: | WCDMA RMC |
| Channel: | 1312 |
| Frequency (MHz): | 1712.4 |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3424.8 | H | - | - | -76.33 | 2.04 | 32.71 | -62.55 | -13.00 | -49.55 |
| 5137.2 | H | - | - | -77.51 | 4.60 | 34.09 | -61.17 | -13.00 | -48.17 |
| 6849.6 | H | - | - | -79.15 | 8.51 | 36.36 | -58.89 | -13.00 | -45.89 |

7-70. Antenna 1 Radiated Spurious Data (WCDMA AWS – Low Channel)

| | |
|------------------|-----------|
| Mode: | WCDMA RMC |
| Channel: | 1413 |
| Frequency (MHz): | 1732.6 |


| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3465.2 | H | - | - | -76.32 | 2.37 | 33.05 | -62.21 | -13.00 | -49.21 |
| 5197.8 | H | - | - | -77.75 | 5.15 | 34.40 | -60.86 | -13.00 | -47.86 |
| 6930.4 | H | - | - | -79.19 | 8.37 | 36.18 | -59.08 | -13.00 | -46.08 |

Table 7-71. Antenna 1 Radiated Spurious Data (WCDMA AWS – Mid Channel)

| | |
|------------------|-----------|
| Mode: | WCDMA RMC |
| Channel: | 1513 |
| Frequency (MHz): | 1752.6 |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3505.2 | H | - | - | -76.75 | 2.45 | 32.70 | -62.56 | -13.00 | -49.56 |
| 5257.8 | H | - | - | -77.73 | 4.82 | 34.09 | -61.16 | -13.00 | -48.16 |
| 7010.4 | H | - | - | -78.96 | 7.89 | 35.93 | -59.33 | -13.00 | -46.33 |

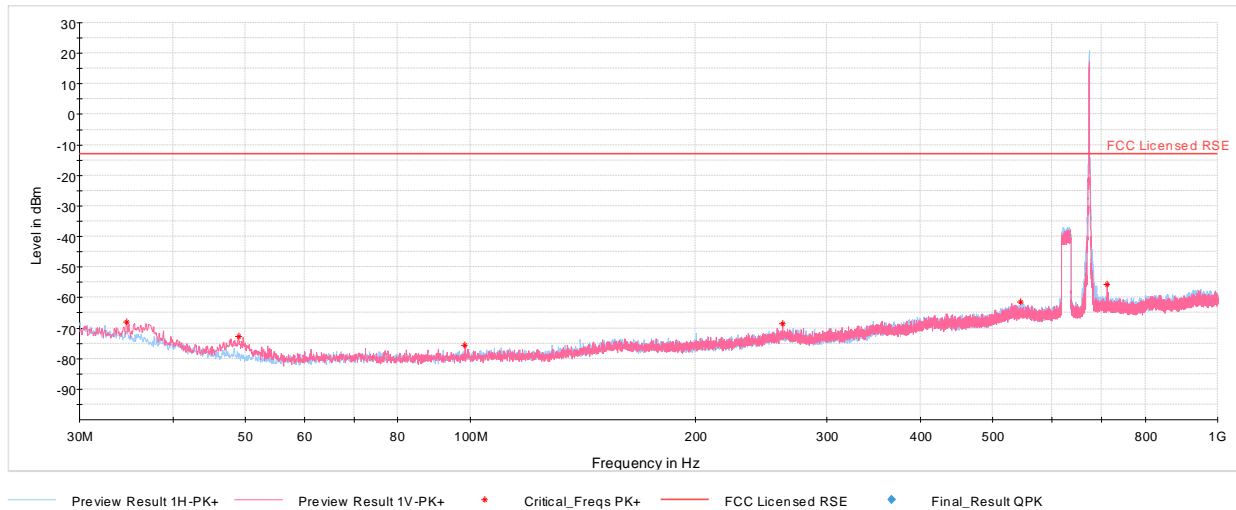
Table 7-72. Antenna 1 Radiated Spurious Data (WCDMA AWS – High Channel)

| | | | |
|---|---|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 |  PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
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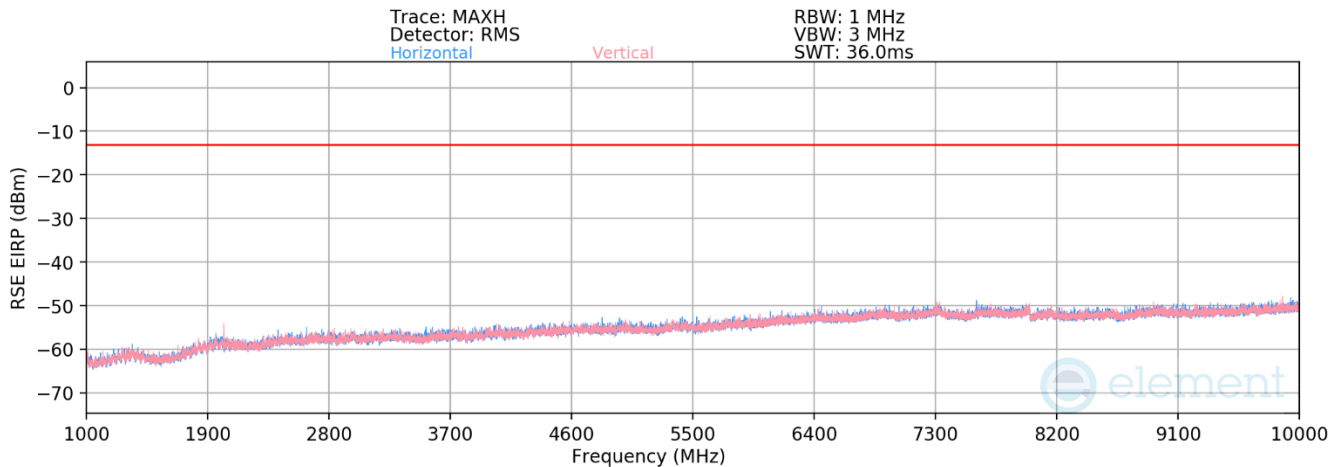
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7.7.3 Antenna 3 – Radiated Spurious Emission Measurement


LTE Band 71



Plot 7-449. Antenna 3 Radiated Spurious Emission below 1GHz (LTE Band 71)



Plot 7-450. Antenna 3 Radiated Spurious Emission above 1GHz (LTE Band 71)

| | | | |
|---|---|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 |  | PART 27 MEASUREMENT REPORT | Approved by: Technical Manager |
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| | |
|------------------|--------|
| Bandwidth (MHz): | 20 |
| Frequency (MHz): | 673.0 |
| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1346.0 | V | 266 | 133 | -74.73 | -1.18 | 31.09 | -64.17 | -13.00 | -51.17 |
| 2019.0 | V | 319 | 101 | -67.35 | 1.78 | 41.43 | -53.83 | -13.00 | -40.83 |
| 2692.0 | V | - | - | -78.87 | 3.60 | 31.73 | -63.53 | -13.00 | -50.53 |
| 3365.0 | V | - | - | -79.02 | 4.68 | 32.66 | -62.60 | -13.00 | -49.60 |
| 4038.0 | V | - | - | -79.70 | 5.84 | 33.14 | -62.12 | -13.00 | -49.12 |

Table 7-73. Antenna 3 Radiated Spurious Data (LTE Band 71 – Low Channel)

| | |
|------------------|--------|
| Bandwidth (MHz): | 20 |
| Frequency (MHz): | 680.5 |
| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1361.0 | V | - | - | -71.97 | -1.34 | 33.69 | -61.57 | -13.00 | -48.57 |
| 2041.5 | V | 307 | 104 | -68.36 | 1.60 | 40.24 | -55.02 | -13.00 | -42.02 |
| 2722.0 | V | - | - | -78.77 | 3.87 | 32.10 | -63.16 | -13.00 | -50.16 |
| 3402.5 | V | - | - | -79.21 | 4.59 | 32.38 | -62.88 | -13.00 | -49.88 |
| 4083.0 | V | - | - | -79.64 | 5.94 | 33.30 | -61.95 | -13.00 | -48.95 |

Table 7-74. Antenna 3 Radiated Spurious Data (LTE Band 71 – Mid Channel)

| | |
|------------------|--------|
| Bandwidth (MHz): | 20 |
| Frequency (MHz): | 688.0 |
| RB / Offset: | 1 / 50 |

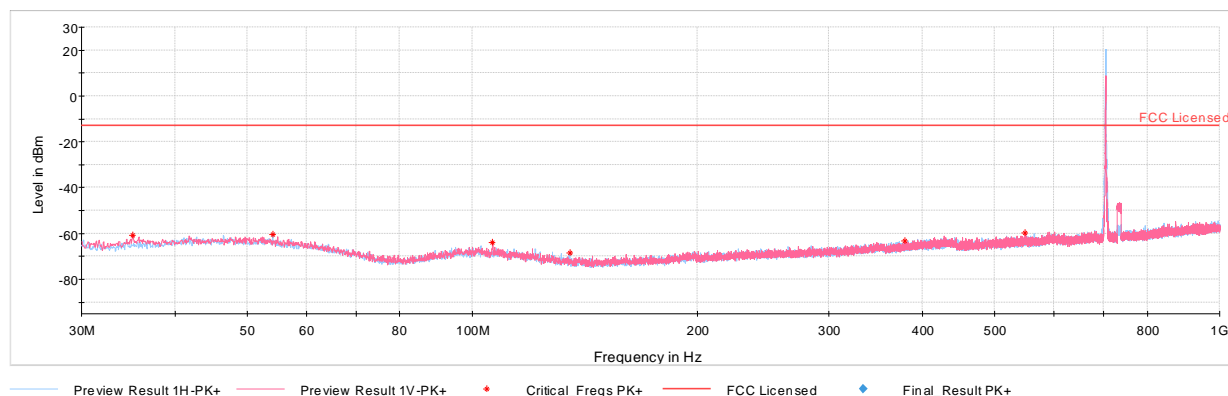
| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1376.0 | V | 346 | 242 | -74.89 | -1.32 | 30.79 | -64.46 | -13.00 | -51.46 |
| 2064.0 | V | 303 | 109 | -70.44 | 1.73 | 38.29 | -56.97 | -13.00 | -43.97 |
| 2752.0 | V | - | - | -78.88 | 3.70 | 31.82 | -63.44 | -13.00 | -50.44 |
| 3440.0 | V | - | - | -79.10 | 4.16 | 32.06 | -63.20 | -13.00 | -50.20 |
| 4128.0 | V | - | - | -79.56 | 5.79 | 33.23 | -62.03 | -13.00 | -49.03 |

Table 7-75. Antenna 3 Radiated Spurious Data (LTE Band 71 – High Channel)

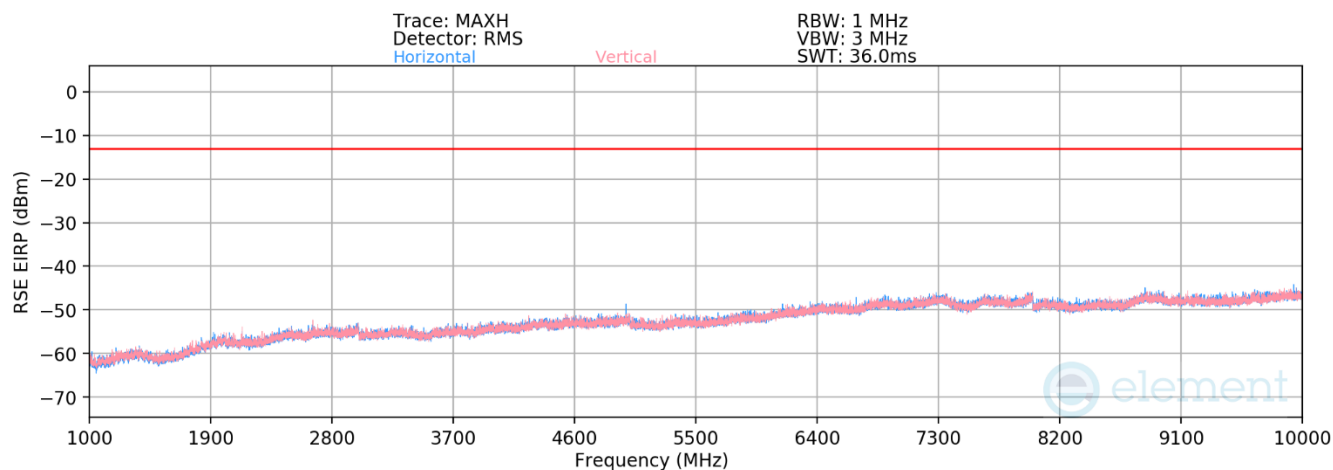
| | | | |
|---|---|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 |  PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
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LTE Band 12/17



Plot 7-451. Antenna 3 Radiated Spurious Emission below 1GHz (LTE Band 12/17)



Plot 7-452. Antenna 3 Radiated Spurious Emission above 1GHz (LTE Band 12/17)

| | | | | |
|---|---|----------------------------|--|-----------------------------------|
| FCC ID: BCGA2435 |  | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
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| | |
|------------------|--------|
| Bandwidth (MHz): | 10 |
| Frequency (MHz): | 704.0 |
| RB / Offset: | 1 / 25 |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1408.0 | H | 311 | 43 | -76.90 | -1.65 | 28.45 | -66.81 | -13.00 | -53.81 |
| 2112.0 | H | 210 | 211 | -74.69 | 1.70 | 34.01 | -61.25 | -13.00 | -48.25 |
| 2816.0 | H | - | - | -78.58 | 3.33 | 31.75 | -63.51 | -13.00 | -50.51 |
| 3520.0 | H | - | - | -79.20 | 4.14 | 31.94 | -63.32 | -13.00 | -50.32 |
| 4224.0 | H | - | - | -79.41 | 5.73 | 33.32 | -61.94 | -13.00 | -48.94 |

Table 7-76. Antenna 3 Radiated Spurious Data (LTE Band 12/17 – Low Channel)

| | |
|------------------|--------|
| Bandwidth (MHz): | 10 |
| Frequency (MHz): | 707.5 |
| RB / Offset: | 1 / 25 |


| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1415.0 | H | 256 | 43 | -75.74 | -1.60 | 29.66 | -65.60 | -13.00 | -52.60 |
| 2122.5 | H | 369 | 284 | -74.04 | 1.72 | 34.68 | -60.58 | -13.00 | -47.58 |
| 2830.0 | H | - | - | -78.74 | 3.24 | 31.50 | -63.76 | -13.00 | -50.76 |
| 3537.5 | H | - | - | -79.40 | 4.48 | 32.08 | -63.18 | -13.00 | -50.18 |
| 4245.0 | H | - | - | -79.81 | 5.75 | 32.94 | -62.32 | -13.00 | -49.32 |

Table 7-77. Antenna 3 Radiated Spurious Data (LTE Band 12/17 – Mid Channel)

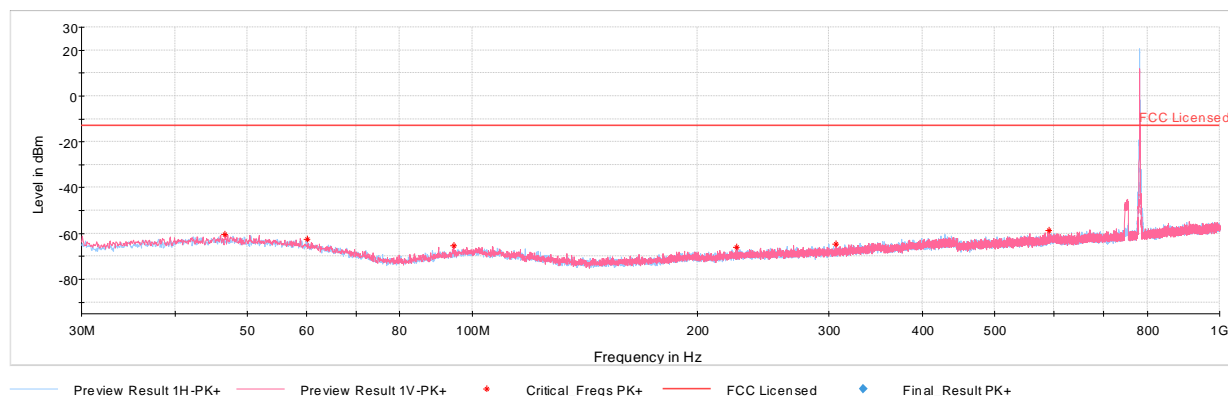
| | |
|------------------|--------|
| Bandwidth (MHz): | 10 |
| Frequency (MHz): | 711.0 |
| RB / Offset: | 1 / 25 |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1422.0 | H | 392 | 111 | -74.67 | -1.54 | 30.79 | -64.47 | -13.00 | -51.47 |
| 2133.0 | H | 370 | 286 | -72.37 | 1.87 | 36.50 | -58.76 | -13.00 | -45.76 |
| 2844.0 | H | - | - | -78.56 | 3.07 | 31.51 | -63.75 | -13.00 | -50.75 |
| 3555.0 | H | - | - | -79.17 | 4.81 | 32.64 | -62.62 | -13.00 | -49.62 |
| 4266.0 | H | - | - | -79.84 | 5.72 | 32.88 | -62.38 | -13.00 | -49.38 |

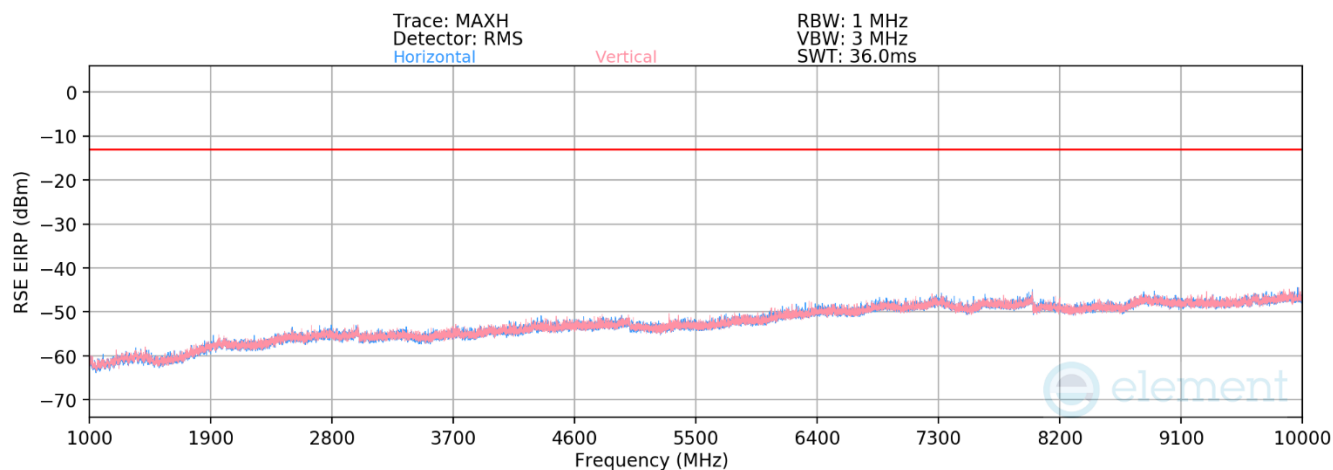
Table 7-78. Antenna 3 Radiated Spurious Data (LTE Band 12/17 – High Channel)

| | | | |
|---|---|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 |  PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
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LTE Band 13



Plot 7-453. Antenna 3 Radiated Spurious Emission below 1GHz (LTE Band 13)



Plot 7-454. Antenna 3 Radiated Spurious Emission above 1GHz (LTE Band 13)

| | | | |
|--|---|-----------------------------------|--|
| FCC ID: BCGA2435 |  | PART 27 MEASUREMENT REPORT | Approved by: Technical Manager |
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| | |
|------------------|--------|
| Bandwidth (MHz): | 5 |
| Frequency (MHz): | 779.5 |
| RB / Offset: | 1 / 12 |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1559.0 | H | 161 | 233 | -77.05 | -2.10 | 27.85 | -67.40 | -40.00 | -27.40 |
| 2338.5 | H | 270 | 323 | -75.63 | 2.00 | 33.37 | -61.89 | -13.00 | -48.89 |
| 3118.0 | H | - | - | -79.02 | 3.79 | 31.77 | -63.49 | -13.00 | -50.49 |
| 3897.5 | H | - | - | -79.36 | 5.13 | 32.77 | -62.49 | -13.00 | -49.49 |
| 4677.0 | H | - | - | -79.87 | 6.84 | 33.97 | -61.29 | -13.00 | -48.29 |

Table 7-79. Antenna 3 Radiated Spurious Data (LTE Band 13 – Low Channel)

| | |
|------------------|--------|
| Bandwidth (MHz): | 10 |
| Frequency (MHz): | 782.0 |
| RB / Offset: | 1 / 25 |


| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1564.0 | H | 166 | 266 | -77.51 | -2.10 | 27.39 | -67.86 | -40.00 | -27.86 |
| 2346.0 | H | 118 | 54 | -76.38 | 2.00 | 32.62 | -62.64 | -13.00 | -49.64 |
| 3128.0 | H | - | - | -78.65 | 3.79 | 32.14 | -63.12 | -13.00 | -50.12 |
| 3910.0 | H | - | - | -79.44 | 5.13 | 32.69 | -62.57 | -13.00 | -49.57 |
| 4692.0 | H | - | - | -79.71 | 6.84 | 34.13 | -61.13 | -13.00 | -48.13 |

Table 7-80. Antenna 3 Radiated Spurious Data (LTE Band 13 – Mid Channel)

| | |
|------------------|--------|
| Bandwidth (MHz): | 5 |
| Frequency (MHz): | 784.5 |
| RB / Offset: | 1 / 12 |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1569.0 | H | 165 | 240 | -77.26 | -2.10 | 27.64 | -67.61 | -40.00 | -27.61 |
| 2353.5 | H | 194 | 254 | -77.08 | 2.00 | 31.92 | -63.34 | -13.00 | -50.34 |
| 3138.0 | H | - | - | -78.79 | 3.79 | 32.00 | -63.26 | -13.00 | -50.26 |
| 3922.5 | H | - | - | -79.59 | 5.13 | 32.54 | -62.72 | -13.00 | -49.72 |
| 4707.0 | H | - | - | -79.79 | 6.84 | 34.05 | -61.21 | -13.00 | -48.21 |

Table 7-81. Antenna 3 Radiated Spurious Data (LTE Band 13 – High Channel)

| | | | |
|---|---|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 |  PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
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LTE Band 66/4

| Bandwidth (MHz): | 20 | | | | | | | | |
|------------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| Frequency (MHz): | 1720.0 | | | | | | | | |
| 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] |
| 3440.0 | - | - | - | -78.85 | 4.93 | 33.08 | -62.18 | -13.00 | -49.18 |
| 5160.0 | - | - | - | -79.84 | 7.51 | 34.67 | -60.59 | -13.00 | -47.59 |
| 6880.0 | - | - | - | -80.22 | 10.24 | 37.02 | -58.24 | -13.00 | -45.24 |


Table 7-82. Antenna 3 Radiated Spurious Data (LTE Band 66/4 – Low Channel)

| Bandwidth (MHz): | 20 | | | | | | | | |
|------------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| Frequency (MHz): | 1745.0 | | | | | | | | |
| 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] |
| 3490.0 | - | - | - | -79.28 | 5.40 | 33.12 | -62.14 | -13.00 | -49.14 |
| 5235.0 | - | - | - | -79.81 | 7.36 | 34.55 | -60.70 | -13.00 | -47.70 |
| 6980.0 | - | - | - | -80.06 | 9.92 | 36.86 | -58.40 | -13.00 | -45.40 |

Table 7-83. Antenna 3 Radiated Spurious Data (LTE Band 66/4 – Mid Channel)

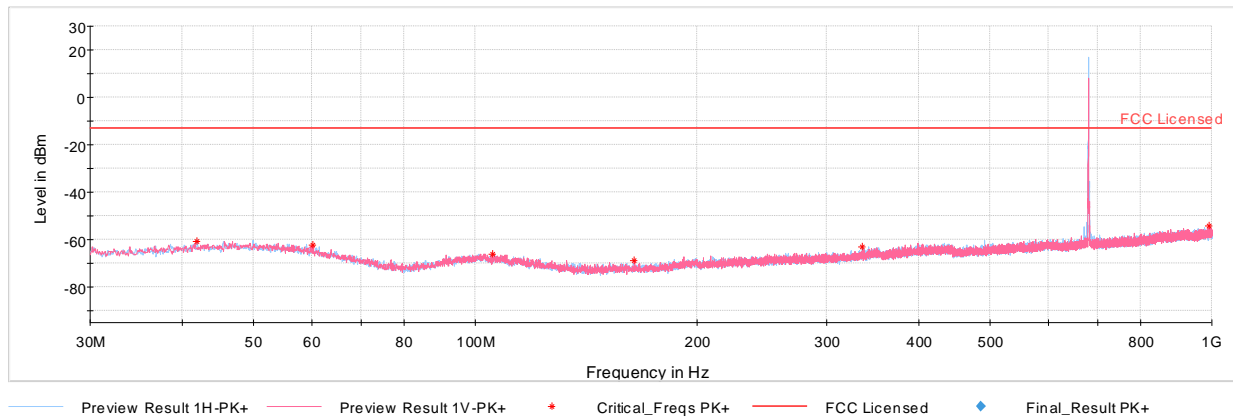
| Bandwidth (MHz): | 20 | | | | | | | | |
|------------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| Frequency (MHz): | 1770.0 | | | | | | | | |
| 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] |
| 3540.0 | - | - | - | -79.08 | 5.64 | 33.56 | -61.70 | -13.00 | -48.70 |
| 5310.0 | V | 111 | 270 | -78.54 | 7.58 | 36.04 | -59.22 | -13.00 | -46.22 |
| 7080.0 | V | - | - | -80.56 | 10.37 | 36.81 | -58.45 | -13.00 | -45.45 |
| 8850.0 | V | - | - | -82.68 | 12.19 | 36.51 | -58.74 | -13.00 | -45.74 |
| 10620.0 | V | - | - | -83.08 | 15.13 | 39.05 | -56.21 | -13.00 | -43.21 |

Table 7-84. Antenna 3 Radiated Spurious Data (LTE Band 66/4 – High Channel)

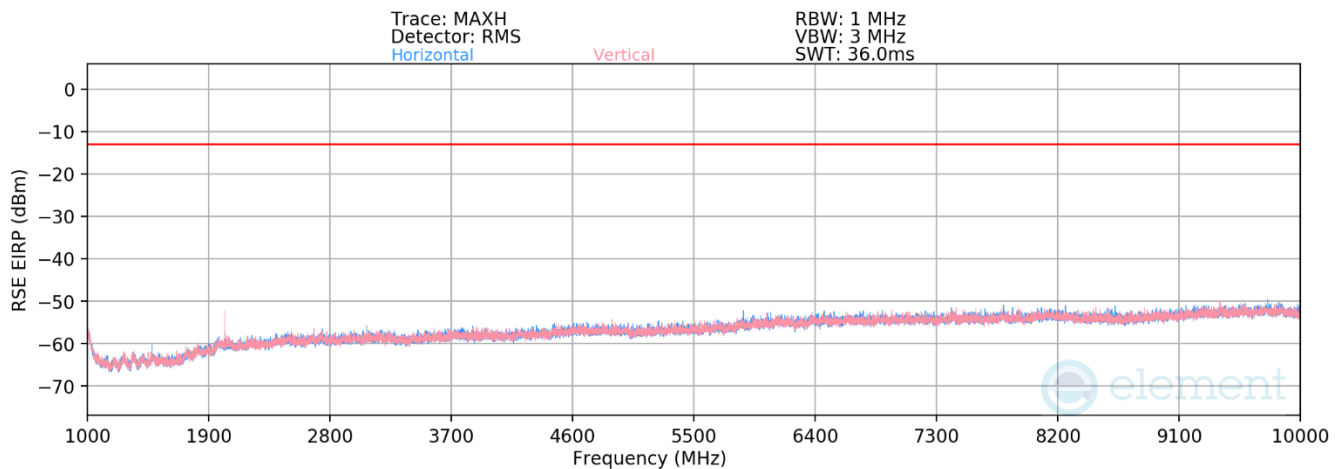
| | | | |
|---|---|----------------------------|-----------------------------------|
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NR Band n71



Plot 7-455. Antenna 4b Radiated Spurious Emission below 1GHz (NR Band n71)



Plot 7-456. Antenna 4b Radiated Spurious Emission above 1GHz (NR Band n71)

| | | | |
|---|---|----------------------------|-----------------------------------|
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| | |
|------------------|--------|
| Bandwidth (MHz): | 20 |
| Frequency (MHz): | 673.0 |
| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1346.0 | V | 390 | 121 | -75.04 | -2.90 | 29.06 | -66.20 | -13.00 | -53.20 |
| 2019.0 | V | 390 | 124 | -61.24 | 0.72 | 46.48 | -48.78 | -13.00 | -35.78 |
| 2692.0 | H | - | - | -78.36 | 2.33 | 30.97 | -64.29 | -13.00 | -51.29 |
| 3365.0 | H | - | - | -78.51 | 2.45 | 30.94 | -64.32 | -13.00 | -51.32 |
| 4038.0 | H | - | - | -78.86 | 3.80 | 31.94 | -63.31 | -13.00 | -50.31 |

Table 7-85. Antenna 4b Radiated Spurious Data (NR Band n71 – Low Channel)

| | |
|------------------|--------|
| Bandwidth (MHz): | 20 |
| Frequency (MHz): | 680.5 |
| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1361.0 | V | 390 | 136 | -75.61 | -3.32 | 28.07 | -67.19 | -13.00 | -54.19 |
| 2041.5 | V | 215 | 292 | -63.39 | 0.52 | 44.13 | -51.13 | -13.00 | -38.13 |
| 2722.0 | V | - | - | -78.04 | 2.40 | 31.36 | -63.90 | -13.00 | -50.90 |
| 3402.5 | V | - | - | -78.60 | 2.62 | 31.02 | -64.24 | -13.00 | -51.24 |
| 4083.0 | V | - | - | -78.95 | 3.65 | 31.70 | -63.56 | -13.00 | -50.56 |

Table 7-86. Antenna 4b Radiated Spurious Data (NR Band n71 – Mid Channel)

| | |
|------------------|--------|
| Bandwidth (MHz): | 20 |
| Frequency (MHz): | 688.0 |
| RB / Offset: | 1 / 50 |

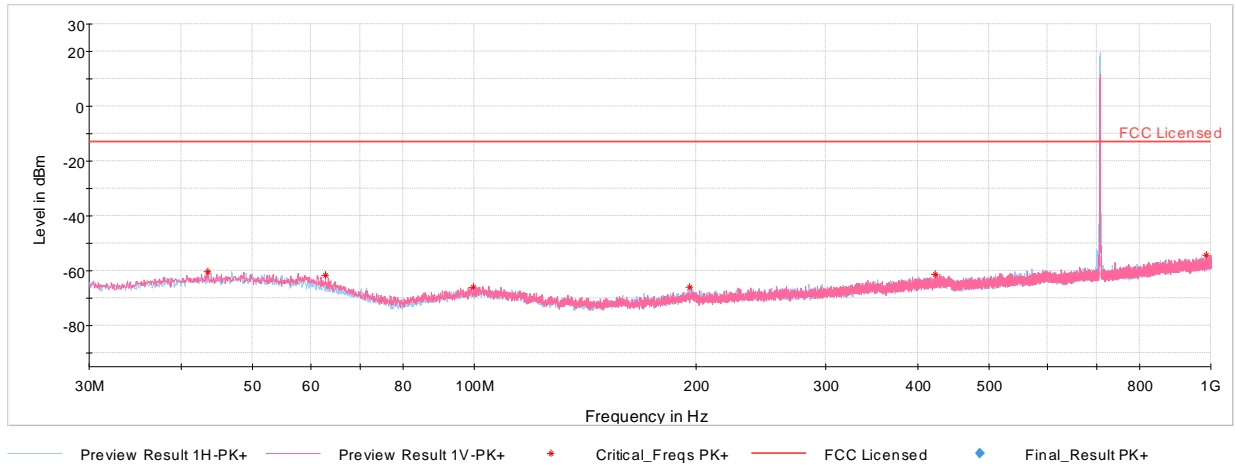
| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1376.0 | V | - | - | -77.53 | -3.71 | 25.76 | -69.50 | -13.00 | -56.50 |
| 2064.0 | V | 337 | 261 | -65.54 | 0.16 | 41.62 | -53.63 | -13.00 | -40.63 |
| 2752.0 | V | - | - | -77.75 | 2.19 | 31.44 | -63.82 | -13.00 | -50.82 |
| 3440.0 | V | - | - | -78.61 | 2.96 | 31.35 | -63.91 | -13.00 | -50.91 |
| 4128.0 | V | - | - | -78.84 | 3.56 | 31.72 | -63.54 | -13.00 | -50.54 |

Table 7-87. Antenna 4b Radiated Spurious Data (NR Band n71 – High Channel)

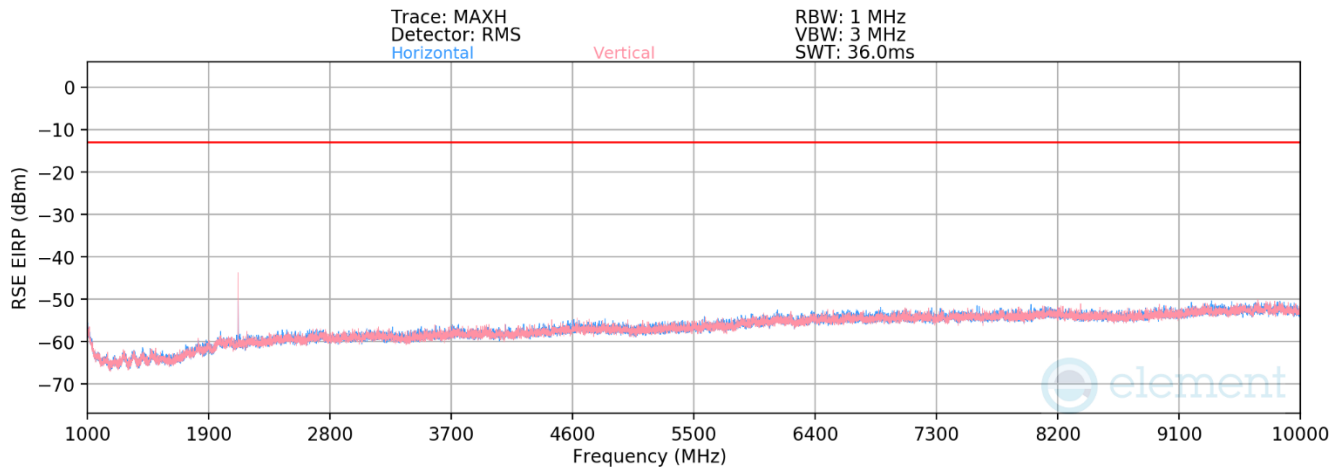
| | | | |
|---|---|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 |  PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
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NR Band n12



Plot 7-457. Antenna 4b Radiated Spurious Emission below 1GHz (NR Band n12)



Plot 7-458. Antenna 4b Radiated Spurious Emission above 1GHz (NR Band n12)

| | | | |
|---|---|----------------------------|-----------------------------------|
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| | |
|------------------|--------|
| Bandwidth (MHz): | 15 |
| Frequency (MHz): | 706.5 |
| RB / Offset: | 1 / 37 |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1413.0 | V | 395 | 118 | -75.18 | -1.81 | 30.01 | -65.25 | -13.00 | -52.25 |
| 2119.5 | V | 395 | 262 | -71.52 | 1.76 | 37.24 | -58.02 | -13.00 | -45.02 |
| 2826.0 | H | - | - | -78.66 | 3.25 | 31.59 | -63.67 | -13.00 | -50.67 |
| 3532.5 | H | - | - | -79.69 | 4.37 | 31.68 | -63.57 | -13.00 | -50.57 |
| 4239.0 | H | - | - | -80.07 | 5.80 | 32.73 | -62.53 | -13.00 | -49.53 |

Table 7-88. Antenna 4b Radiated Spurious Data (NR Band n12 – Low Channel)

| | |
|------------------|--------|
| Bandwidth (MHz): | 15 |
| Frequency (MHz): | 707.5 |
| RB / Offset: | 1 / 37 |


| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1415.0 | V | 379 | 85 | -75.76 | -1.80 | 29.44 | -65.82 | -13.00 | -52.82 |
| 2122.5 | H | - | - | -78.07 | 1.72 | 30.65 | -64.61 | -13.00 | -51.61 |
| 2830.0 | H | - | - | -78.56 | 3.24 | 31.68 | -63.58 | -13.00 | -50.58 |
| 3537.5 | H | - | - | -79.26 | 4.48 | 32.22 | -63.04 | -13.00 | -50.04 |

Table 7-89. Antenna 4b Radiated Spurious Data (NR Band n12 – Mid Channel)

| | |
|------------------|--------|
| Bandwidth (MHz): | 15 |
| Frequency (MHz): | 708.5 |
| RB / Offset: | 1 / 37 |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1417.0 | V | 292 | 77 | -76.21 | -1.80 | 28.99 | -66.26 | -13.00 | -53.26 |
| 2125.5 | V | - | - | -78.10 | 1.83 | 30.73 | -64.52 | -13.00 | -51.52 |
| 2834.0 | V | - | - | -78.77 | 3.34 | 31.57 | -63.69 | -13.00 | -50.69 |
| 3542.5 | V | - | - | -79.43 | 4.61 | 32.18 | -63.08 | -13.00 | -50.08 |

Table 7-90. Antenna 4b Radiated Spurious Data (NR Band n12 – High Channel)

| | | | |
|---|---|----------------------------|-----------------------------------|
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NR Band n66

| | |
|------------------|---------|
| Bandwidth (MHz): | 40 |
| Frequency (MHz): | 1730.0 |
| RB / Offset: | 1 / 108 |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3460.0 | V | - | - | -77.62 | 1.42 | 30.80 | -64.45 | -13.00 | -51.45 |
| 5190.0 | V | - | - | -79.38 | 4.59 | 32.21 | -63.05 | -13.00 | -50.05 |
| 6920.0 | V | - | - | -80.63 | 8.59 | 34.96 | -60.30 | -13.00 | -47.30 |

Table 7-91. Antenna 3 Radiated Spurious Data (NR Band n66 – Low Channel)

| | |
|------------------|---------|
| Bandwidth (MHz): | 40 |
| Frequency (MHz): | 1745.0 |
| RB / Offset: | 1 / 108 |


| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3490.0 | V | - | - | -77.67 | 1.51 | 30.84 | -64.41 | -13.00 | -51.41 |
| 5235.0 | V | - | - | -79.35 | 4.73 | 32.38 | -62.88 | -13.00 | -49.88 |
| 6980.0 | V | - | - | -80.47 | 8.11 | 34.64 | -60.62 | -13.00 | -47.62 |

Table 7-92. Antenna 3 Radiated Spurious Data (NR Band n66 – Mid Channel)

| | |
|------------------|---------|
| Bandwidth (MHz): | 40 |
| Frequency (MHz): | 1760.0 |
| RB / Offset: | 1 / 108 |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3520.0 | V | - | - | -77.68 | 1.62 | 30.94 | -64.32 | -13.00 | -51.32 |
| 5280.0 | V | - | - | -79.42 | 4.95 | 32.53 | -62.73 | -13.00 | -49.73 |
| 7040.0 | V | - | - | -80.73 | 8.10 | 34.37 | -60.89 | -13.00 | -47.89 |

Table 7-93. Antenna 3 Radiated Spurious Data (NR Band n66 – High Channel)

| | | | |
|---|---|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 |  | PART 27 MEASUREMENT REPORT | Approved by: Technical Manager |
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NR Band n70

| | |
|------------------|--------|
| Bandwidth (MHz): | 10 |
| Frequency (MHz): | 1700.0 |
| RB / Offset: | 1/25 |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3400.0 | V | - | - | -79.48 | 4.93 | 32.45 | -62.81 | -13.00 | -49.81 |
| 5100.0 | V | 117 | 153 | -79.33 | 7.70 | 35.37 | -59.88 | -13.00 | -46.88 |
| 6800.0 | V | - | - | -80.81 | 10.20 | 36.39 | -58.87 | -13.00 | -45.87 |
| 8500.0 | V | - | - | -81.57 | 11.56 | 36.99 | -58.26 | -13.00 | -45.26 |
| 10200.0 | V | - | - | -82.33 | 14.09 | 38.76 | -56.50 | -13.00 | -43.50 |

Table 7-94. Antenna 3 Radiated Spurious Data (NR Band n70 – Low Channel)

| | |
|------------------|--------|
| Bandwidth (MHz): | 15 |
| Frequency (MHz): | 1702.5 |
| RB / Offset: | 1/37 |


| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3405.0 | V | - | - | -79.52 | 4.94 | 32.42 | -62.84 | -13.00 | -49.84 |
| 5107.5 | V | 260 | 156 | -79.22 | 7.75 | 35.53 | -59.72 | -13.00 | -46.72 |
| 6810.0 | V | - | - | -80.95 | 10.18 | 36.23 | -59.03 | -13.00 | -46.03 |
| 8512.5 | V | - | - | -81.17 | 11.33 | 37.16 | -58.09 | -13.00 | -45.09 |
| 10215.0 | V | - | - | -82.18 | 14.51 | 39.33 | -55.93 | -13.00 | -42.93 |

Table 7-95. Antenna 3 Radiated Spurious Data (NR Band n70 – Mid Channel)

| | |
|------------------|--------|
| Bandwidth (MHz): | 10 |
| Frequency (MHz): | 1705.0 |
| RB / Offset: | 1/25 |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3410.0 | V | - | - | -79.31 | 4.94 | 32.63 | -62.62 | -13.00 | -49.62 |
| 5115.0 | V | 139 | 136 | -79.34 | 7.78 | 35.44 | -59.81 | -13.00 | -46.81 |
| 6820.0 | V | - | - | -80.95 | 10.24 | 36.29 | -58.96 | -13.00 | -45.96 |
| 8525.0 | V | - | - | -81.42 | 11.29 | 36.87 | -58.39 | -13.00 | -45.39 |
| 10230.0 | V | - | - | -82.27 | 14.38 | 39.11 | -56.15 | -13.00 | -43.15 |

Table 7-96. Antenna 3 Radiated Spurious Data (NR Band n70 – High Channel)

| | | | |
|---|---|----------------------------|-----------------------------------|
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WCDMA AWS

| | |
|------------------|-----------|
| Mode: | WCDMA RMC |
| Channel: | 1312 |
| Frequency (MHz): | 1712.4 |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3424.8 | V | - | - | -76.33 | 2.04 | 32.71 | -62.55 | -13.00 | -49.55 |
| 5137.2 | V | - | - | -77.37 | 4.60 | 34.23 | -61.03 | -13.00 | -48.03 |
| 6849.6 | V | - | - | -79.02 | 8.51 | 36.49 | -58.76 | -13.00 | -45.76 |

7-97. Antenna 3 Radiated Spurious Data (WCDMA AWS – Low Channel)

| | |
|------------------|-----------|
| Mode: | WCDMA RMC |
| Channel: | 1413 |
| Frequency (MHz): | 1732.6 |


| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3465.2 | V | - | - | -76.60 | 2.37 | 32.77 | -62.49 | -13.00 | -49.49 |
| 5197.8 | V | - | - | -77.87 | 5.15 | 34.28 | -60.98 | -13.00 | -47.98 |
| 6930.4 | V | - | - | -79.27 | 8.37 | 36.10 | -59.16 | -13.00 | -46.16 |

Table 7-98. Antenna 3 Radiated Spurious Data (WCDMA AWS – Mid Channel)

| | |
|------------------|-----------|
| Mode: | WCDMA RMC |
| Channel: | 1513 |
| Frequency (MHz): | 1752.6 |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3505.2 | V | - | - | -76.69 | 2.45 | 32.76 | -62.50 | -13.00 | -49.50 |
| 5257.8 | V | - | - | -77.64 | 4.82 | 34.18 | -61.07 | -13.00 | -48.07 |
| 7010.4 | V | - | - | -78.93 | 7.89 | 35.96 | -59.30 | -13.00 | -46.30 |

Table 7-99. Antenna 3 Radiated Spurious Data (WCDMA AWS – High Channel)

| | | | |
|---|---|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 |  PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
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7.7.4 Antenna 2b – Radiated Spurious Emission Measurement

LTE Band 66/4

| | |
|------------------|--------|
| Bandwidth (MHz): | 20 |
| Frequency (MHz): | 1720.0 |
| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3440.0 | - | - | - | -78.93 | 4.93 | 33.00 | -62.26 | -13.00 | -49.26 |
| 5160.0 | - | - | - | -80.04 | 7.51 | 34.47 | -60.79 | -13.00 | -47.79 |
| 6880.0 | - | - | - | -80.39 | 10.24 | 36.85 | -58.41 | -13.00 | -45.41 |

Table 7-100. Antenna 2b Radiated Spurious Data (LTE Band 66/4 – Low Channel)

| | |
|------------------|--------|
| Bandwidth (MHz): | 20 |
| Frequency (MHz): | 1745.0 |
| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3490.0 | - | - | - | -79.15 | 5.40 | 33.25 | -62.01 | -13.00 | -49.01 |
| 5235.0 | - | - | - | -79.87 | 7.36 | 34.49 | -60.76 | -13.00 | -47.76 |
| 6980.0 | - | - | - | -80.22 | 9.92 | 36.70 | -58.56 | -13.00 | -45.56 |

Table 7-101. Antenna 2b Radiated Spurious Data (LTE Band 66/4 – Mid Channel)

| | |
|------------------|--------|
| Bandwidth (MHz): | 20 |
| Frequency (MHz): | 1770.0 |
| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3540.0 | - | - | - | -79.14 | 5.64 | 33.50 | -61.76 | -13.00 | -48.76 |
| 5310.0 | - | - | - | -79.80 | 7.58 | 34.78 | -60.48 | -13.00 | -47.48 |
| 7080.0 | - | - | - | -80.41 | 10.37 | 36.96 | -58.30 | -13.00 | -45.30 |

Table 7-102. Antenna 2b Radiated Spurious Data (LTE Band 66/4 – High Channel)

| | | | |
|---|---|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 |  PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
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NR Band n66

| Bandwidth (MHz): | 20 | | | | | | | | |
|------------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| Frequency (MHz): | 1730.0 | | | | | | | | |
| RB / Offset: | 1 / 108 | | | | | | | | |
| 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] |
| 3460.0 | H | - | - | -77.65 | 1.42 | 30.77 | -64.48 | -13.00 | -51.48 |
| 5190.0 | V | 291 | 35 | -62.78 | 4.59 | 48.81 | -46.45 | -13.00 | -33.45 |
| 6920.0 | H | - | - | -80.54 | 8.59 | 35.05 | -60.21 | -13.00 | -47.21 |
| 8650.0 | H | - | - | -81.97 | 8.88 | 33.91 | -61.35 | -13.00 | -48.35 |
| 10380.0 | H | - | - | -81.42 | 9.85 | 35.43 | -59.83 | -13.00 | -46.83 |


Table 7-103. Antenna 2b Radiated Spurious Data (NR Band n66 – Low Channel)

| Bandwidth (MHz): | 20 | | | | | | | | |
|------------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| Frequency (MHz): | 1745.0 | | | | | | | | |
| RB / Offset: | 1 / 108 | | | | | | | | |
| 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] |
| 3490.0 | H | - | - | -77.52 | 1.51 | 30.99 | -64.26 | -13.00 | -51.26 |
| 5235.0 | H | - | - | -79.34 | 4.73 | 32.39 | -62.87 | -13.00 | -49.87 |
| 6980.0 | H | - | - | -80.43 | 8.11 | 34.68 | -60.58 | -13.00 | -47.58 |

Table 7-104. Antenna 2b Radiated Spurious Data (NR Band n66 – Mid Channel)

| Bandwidth (MHz): | 20 | | | | | | | | |
|------------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| Frequency (MHz): | 1900.0 | | | | | | | | |
| 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] |
| 3800.0 | H | - | - | -77.64 | 1.62 | 30.98 | -64.28 | -13.00 | -51.28 |
| 5700.0 | H | - | - | -79.48 | 4.95 | 32.47 | -62.79 | -13.00 | -49.79 |
| 7600.0 | H | - | - | -80.78 | 8.10 | 34.32 | -60.94 | -13.00 | -47.94 |

Table 7-105. Antenna 2b Radiated Spurious Data (NR Band n66 – High Channel)

| | | | |
|---|---|----------------------------|-----------------------------------|
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NR Band n70

| | |
|------------------|--------|
| Bandwidth (MHz): | 10 |
| Frequency (MHz): | 1700.0 |
| RB / Offset: | 1/25 |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3400.0 | V | 318 | 2 | -78.23 | 4.93 | 33.70 | -61.56 | -13.00 | -48.56 |
| 5100.0 | V | 299 | 55 | -71.40 | 7.70 | 43.30 | -51.95 | -13.00 | -38.95 |
| 6800.0 | H | - | - | -80.62 | 10.20 | 36.58 | -58.68 | -13.00 | -45.68 |
| 8500.0 | H | - | - | -81.43 | 11.56 | 37.13 | -58.12 | -13.00 | -45.12 |
| 10200.0 | H | - | - | -82.19 | 14.09 | 38.90 | -56.36 | -13.00 | -43.36 |

Table 7-106. Antenna 2b Radiated Spurious Data (NR Band n70 – Low Channel)

| | |
|------------------|--------|
| Bandwidth (MHz): | 15 |
| Frequency (MHz): | 1702.5 |
| RB / Offset: | 1/37 |


| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3405.0 | V | 353 | 359 | -78.55 | 4.94 | 33.39 | -61.87 | -13.00 | -48.87 |
| 5107.5 | V | 331 | 332 | -78.86 | 7.75 | 35.89 | -59.36 | -13.00 | -46.36 |
| 6810.0 | H | - | - | -80.89 | 10.18 | 36.29 | -58.97 | -13.00 | -45.97 |
| 8512.5 | H | - | - | -81.47 | 11.33 | 36.86 | -58.39 | -13.00 | -45.39 |
| 10215.0 | H | - | - | -82.51 | 14.51 | 39.00 | -56.26 | -13.00 | -43.26 |

Table 7-107. Antenna 2b Radiated Spurious Data (NR Band n70 – Mid Channel)

| | |
|------------------|--------|
| Bandwidth (MHz): | 10 |
| Frequency (MHz): | 1705.0 |
| RB / Offset: | 1/25 |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3410.0 | V | 315 | 361 | -78.47 | 4.94 | 33.47 | -61.78 | -13.00 | -48.78 |
| 5115.0 | V | 303 | 327 | -79.64 | 7.78 | 35.14 | -60.11 | -13.00 | -47.11 |
| 6820.0 | H | - | - | -80.78 | 10.24 | 36.46 | -58.79 | -13.00 | -45.79 |
| 8525.0 | H | - | - | -81.46 | 11.29 | 36.83 | -58.43 | -13.00 | -45.43 |
| 10230.0 | H | - | - | -82.32 | 14.38 | 39.06 | -56.20 | -13.00 | -43.20 |

Table 7-108. Antenna 2b Radiated Spurious Data (NR Band n70 – High Channel)

| | | | |
|---|---|----------------------------|-----------------------------------|
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WCDMA AWS

| | |
|------------------|-----------|
| Mode: | WCDMA RMC |
| Channel: | 1312 |
| Frequency (MHz): | 1712.4 |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3424.8 | H | - | - | -76.28 | 2.04 | 32.76 | -62.50 | -13.00 | -49.50 |
| 5137.2 | H | - | - | -77.55 | 4.60 | 34.05 | -61.21 | -13.00 | -48.21 |
| 6849.6 | H | - | - | -79.32 | 8.51 | 36.19 | -59.06 | -13.00 | -46.06 |

7-109. Antenna 2b Radiated Spurious Data (WCDMA AWS – Low Channel)

| | |
|------------------|-----------|
| Mode: | WCDMA RMC |
| Channel: | 1413 |
| Frequency (MHz): | 1732.6 |


| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3465.2 | H | - | - | -76.53 | 2.37 | 32.84 | -62.42 | -13.00 | -49.42 |
| 5197.8 | H | - | - | -77.73 | 5.15 | 34.42 | -60.84 | -13.00 | -47.84 |
| 6930.4 | H | - | - | -79.04 | 8.37 | 36.33 | -58.93 | -13.00 | -45.93 |

Table 7-110. Antenna 2b Radiated Spurious Data (WCDMA AWS – Mid Channel)

| | |
|------------------|-----------|
| Mode: | WCDMA RMC |
| Channel: | 1513 |
| Frequency (MHz): | 1752.6 |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3505.2 | H | - | - | -76.55 | 2.45 | 32.90 | -62.36 | -13.00 | -49.36 |
| 5257.8 | H | 280 | 31 | -72.73 | 4.82 | 39.09 | -56.16 | -13.00 | -43.16 |
| 7010.4 | H | - | - | -78.94 | 7.89 | 35.95 | -59.31 | -13.00 | -46.31 |
| 8763.0 | H | - | - | -81.21 | 10.35 | 36.14 | -59.12 | -13.00 | -46.12 |
| 10515.6 | H | - | - | -82.85 | 14.22 | 38.37 | -56.89 | -13.00 | -43.89 |

Table 7-111. Antenna 2b Radiated Spurious Data (WCDMA AWS – High Channel)

| | | | |
|---|---|----------------------------|-----------------------------------|
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7.8 Frequency Stability / Temperature Variation

\$2.1053, \$27.53

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015 and TIA-603-E-2016. The frequency stability 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 27, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

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

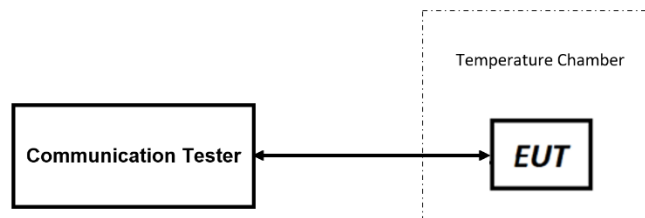



Figure 7-8. Test Instrument & Measurement Setup

Test Notes

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


| | | | |
|---|---|----------------------------|-----------------------------------|
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Frequency Stability / Temperature Variation

| LTE Band 66/4 | | | | | | | |
|------------------|-------------|------------|------------------------------|-----------------|---------------------|----------------------|---------------|
| | | | Low Channel Frequency (Hz): | | 1,720,000,000 | | |
| | | | High Channel Frequency (Hz): | | 1,770,000,000 | | |
| | | | Ref. Voltage (VDC): | | 3.80 | | |
| Voltage (%) | Power (VDC) | Temp (°C) | Low Freq. (Hz) | High Freq. (Hz) | Low Freq. Dev. (Hz) | High Freq. Dev. (Hz) | Deviation (%) |
| 100 % | 3.80 | - 30 | 1,720,000,051 | 1,770,000,026 | 26 | 13 | 0.0000015 |
| | | - 20 | 1,720,000,036 | 1,770,000,040 | 11 | 27 | 0.0000015 |
| | | - 10 | 1,720,000,041 | 1,770,000,025 | 16 | 12 | 0.0000009 |
| | | 0 | 1,720,000,052 | 1,770,000,037 | 27 | 24 | 0.0000016 |
| | | + 10 | 1,720,000,037 | 1,770,000,039 | 12 | 26 | 0.0000015 |
| | | + 20 (Ref) | 1,720,000,025 | 1,770,000,013 | 0 | 0 | 0.0000000 |
| | | + 30 | 1,720,000,034 | 1,770,000,026 | 9 | 13 | 0.0000007 |
| | | + 40 | 1,720,000,034 | 1,770,000,032 | 9 | 19 | 0.0000011 |
| | | + 50 | 1,720,000,036 | 1,770,000,022 | 11 | 9 | 0.0000006 |
| Battery Endpoint | 3.23 | + 20 | 1,720,000,048 | 1,770,000,032 | 23 | 19 | 0.0000013 |

Table 7-112. LTE Band 66/4 Frequency Stability Data


| | | | |
|---|---|----------------------------|-----------------------------------|
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Frequency Stability / Temperature Variation

| LTE Band 71 | | | | | | | |
|------------------|-------------|------------|------------------------------|-----------------|---------------------|----------------------|---------------|
| | | | Low Channel Frequency (Hz): | | 673,000,000 | | |
| | | | High Channel Frequency (Hz): | | 688,000,000 | | |
| | | | Ref. Voltage (VDC): | | 3.80 | | |
| Voltage (%) | Power (VDC) | Temp (°C) | Low Freq. (Hz) | High Freq. (Hz) | Low Freq. Dev. (Hz) | High Freq. Dev. (Hz) | Deviation (%) |
| 100 % | 3.80 | - 30 | 672,999,998 | 687,999,999 | -1 | -1 | -0.0000001 |
| | | - 20 | 672,999,995 | 687,999,996 | -4 | -4 | -0.0000006 |
| | | - 10 | 672,999,996 | 688,000,002 | -3 | 2 | -0.0000004 |
| | | 0 | 673,000,000 | 688,000,003 | 1 | 3 | 0.0000004 |
| | | + 10 | 672,999,998 | 688,000,000 | -1 | 0 | -0.0000001 |
| | | + 20 (Ref) | 672,999,999 | 688,000,000 | 0 | 0 | 0.0000000 |
| | | + 30 | 673,000,001 | 688,000,003 | 2 | 3 | 0.0000004 |
| | | + 40 | 673,000,000 | 687,999,998 | 1 | -2 | -0.0000003 |
| | | + 50 | 672,999,999 | 687,999,998 | 0 | -2 | -0.0000003 |
| Battery Endpoint | 3.23 | + 20 | 672,999,995 | 687,999,996 | -4 | -4 | -0.0000006 |

Table 7-113. LTE Band 71 Frequency Stability Data


| | | | |
|---|---|----------------------------|-----------------------------------|
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Frequency Stability / Temperature Variation

| LTE Band 12/17 | | | | | | | |
|------------------|-------------|------------|------------------------------|-----------------|---------------------|----------------------|---------------|
| | | | Low Channel Frequency (Hz): | | 704,000,000 | | |
| | | | High Channel Frequency (Hz): | | 711,000,000 | | |
| | | | Ref. Voltage (VDC): | | 3.80 | | |
| Voltage (%) | Power (VDC) | Temp (°C) | Low Freq. (Hz) | High Freq. (Hz) | Low Freq. Dev. (Hz) | High Freq. Dev. (Hz) | Deviation (%) |
| 100 % | 3.80 | - 30 | 703,999,998 | 710,999,999 | -3 | -1 | -0.0000004 |
| | | - 20 | 703,999,999 | 710,999,999 | -2 | -1 | -0.0000003 |
| | | - 10 | 704,000,001 | 711,000,002 | 0 | 2 | 0.0000003 |
| | | 0 | 704,000,000 | 711,000,001 | -1 | 1 | -0.0000001 |
| | | + 10 | 704,000,002 | 711,000,000 | 1 | 0 | 0.0000001 |
| | | + 20 (Ref) | 704,000,001 | 711,000,000 | 0 | 0 | 0.0000000 |
| | | + 30 | 703,999,998 | 711,000,001 | -3 | 1 | -0.0000004 |
| | | + 40 | 704,000,002 | 711,000,002 | 1 | 2 | 0.0000003 |
| | | + 50 | 703,999,998 | 710,999,999 | -3 | -1 | -0.0000004 |
| Battery Endpoint | 3.23 | + 20 | 704,000,003 | 710,999,999 | 2 | -1 | 0.0000003 |

Table 7-114. LTE Band 12/17 Frequency Stability Data


| | | | |
|---|---|----------------------------|-----------------------------------|
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Frequency Stability / Temperature Variation

| LTE Band 13 | | | | | | | |
|------------------|-------------|------------------------------|----------------|-----------------|---------------------|----------------------|---------------|
| | | Low Channel Frequency (Hz): | | 779,500,000 | | | |
| | | High Channel Frequency (Hz): | | 784,500,000 | | | |
| | | Ref. Voltage (VDC): | | 3.80 | | | |
| Voltage (%) | Power (VDC) | Temp (°C) | Low Freq. (Hz) | High Freq. (Hz) | Low Freq. Dev. (Hz) | High Freq. Dev. (Hz) | Deviation (%) |
| 100 % | 3.80 | - 30 | 779,499,995 | 784,499,998 | -1 | -4 | -0.0000005 |
| | | - 20 | 779,499,996 | 784,499,999 | 0 | -3 | -0.0000004 |
| | | - 10 | 779,499,995 | 784,500,002 | -1 | 0 | -0.0000001 |
| | | 0 | 779,500,000 | 784,500,002 | 4 | 0 | 0.0000005 |
| | | + 10 | 779,499,996 | 784,500,006 | 0 | 4 | 0.0000005 |
| | | + 20 (Ref) | 779,499,996 | 784,500,002 | 0 | 0 | 0.0000000 |
| | | + 30 | 779,499,993 | 784,500,003 | -3 | 1 | -0.0000004 |
| | | + 40 | 779,500,000 | 784,500,003 | 4 | 1 | 0.0000005 |
| | | + 50 | 779,499,992 | 784,500,003 | -4 | 1 | -0.0000005 |
| Battery Endpoint | 3.23 | + 20 | 779,499,995 | 784,499,999 | -1 | -3 | -0.0000004 |

Table 7-115. LTE Band 13 Frequency Stability Data


| | | | |
|---|---|----------------------------|-----------------------------------|
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Frequency Stability / Temperature Variation

| NR Band n66 | | | | | | | |
|------------------|-------------|------------|------------------------------|-----------------|---------------------|----------------------|---------------|
| | | | Low Channel Frequency (Hz): | | 1,720,000,000 | | |
| | | | High Channel Frequency (Hz): | | 1,770,000,000 | | |
| | | | Ref. Voltage (VDC): | | 3.80 | | |
| Voltage (%) | Power (VDC) | Temp (°C) | Low Freq. (Hz) | High Freq. (Hz) | Low Freq. Dev. (Hz) | High Freq. Dev. (Hz) | Deviation (%) |
| 100 % | 3.80 | - 30 | 1,719,999,136 | 1,769,999,232 | -435 | -347 | -0.0000253 |
| | | - 20 | 1,719,999,123 | 1,769,999,220 | -448 | -359 | -0.0000260 |
| | | - 10 | 1,719,999,129 | 1,769,999,151 | -442 | -428 | -0.0000257 |
| | | 0 | 1,719,999,115 | 1,769,999,191 | -456 | -388 | -0.0000265 |
| | | + 10 | 1,719,999,138 | 1,769,999,193 | -433 | -386 | -0.0000252 |
| | | + 20 (Ref) | 1,719,999,571 | 1,769,999,579 | 0 | 0 | 0.0000000 |
| | | + 30 | 1,719,999,218 | 1,769,999,207 | -353 | -372 | -0.0000210 |
| | | + 40 | 1,719,999,120 | 1,769,999,146 | -451 | -433 | -0.0000262 |
| | | + 50 | 1,719,999,131 | 1,769,999,154 | -440 | -425 | -0.0000256 |
| Battery Endpoint | 3.23 | + 20 | 1,719,999,225 | 1,769,999,213 | -346 | -366 | -0.0000207 |

Table 7-116. NR Band n66 Frequency Stability Data


| | | | |
|---|---|----------------------------|-----------------------------------|
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Frequency Stability / Temperature Variation

| NR Band n70 | | | | | | | |
|------------------|-------------|------------|------------------------------|-----------------|---------------------|----------------------|---------------|
| | | | Low Channel Frequency (Hz): | | 1,695,000,000 | | |
| | | | High Channel Frequency (Hz): | | 1,710,000,000 | | |
| | | | Ref. Voltage (VDC): | | 3.80 | | |
| Voltage (%) | Power (VDC) | Temp (°C) | Low Freq. (Hz) | High Freq. (Hz) | Low Freq. Dev. (Hz) | High Freq. Dev. (Hz) | Deviation (%) |
| 100 % | 3.80 | - 30 | 1,694,998,557 | 1,709,998,517 | -700 | -735 | -0.0000430 |
| | | - 20 | 1,694,998,567 | 1,709,998,527 | -690 | -725 | -0.0000424 |
| | | - 10 | 1,694,998,594 | 1,709,998,500 | -663 | -752 | -0.0000440 |
| | | 0 | 1,694,998,530 | 1,709,998,498 | -727 | -754 | -0.0000441 |
| | | + 10 | 1,694,998,612 | 1,709,998,561 | -645 | -691 | -0.0000404 |
| | | + 20 (Ref) | 1,694,999,257 | 1,709,999,252 | 0 | 0 | 0.0000000 |
| | | + 30 | 1,694,998,592 | 1,709,998,599 | -665 | -653 | -0.0000392 |
| | | + 40 | 1,694,998,503 | 1,709,998,572 | -754 | -680 | -0.0000445 |
| | | + 50 | 1,694,998,547 | 1,709,998,596 | -710 | -656 | -0.0000419 |
| Battery Endpoint | 3.23 | + 20 | 1,694,998,550 | 1,709,998,539 | -707 | -713 | -0.0000417 |

Table 7-117. NR Band n70 Frequency Stability Data


| | | | |
|---|---|----------------------------|-----------------------------------|
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Frequency Stability / Temperature Variation

| NR Band n71 | | | | | | | |
|------------------|-------------|------------|------------------------------|-----------------|---------------------|----------------------|---------------|
| | | | Low Channel Frequency (Hz): | 673,000,000 | | | |
| | | | High Channel Frequency (Hz): | 688,000,000 | | | |
| | | | Ref. Voltage (VDC): | 3.80 | | | |
| Voltage (%) | Power (VDC) | Temp (°C) | Low Freq. (Hz) | High Freq. (Hz) | Low Freq. Dev. (Hz) | High Freq. Dev. (Hz) | Deviation (%) |
| 100 % | 3.80 | - 30 | 672,999,734 | 687,999,741 | -162 | -159 | -0.0000241 |
| | | - 20 | 672,999,785 | 687,999,784 | -111 | -116 | -0.0000169 |
| | | - 10 | 672,999,745 | 687,999,714 | -151 | -186 | -0.0000270 |
| | | 0 | 672,999,725 | 687,999,781 | -171 | -119 | -0.0000254 |
| | | + 10 | 672,999,752 | 687,999,729 | -144 | -171 | -0.0000249 |
| | | + 20 (Ref) | 672,999,896 | 687,999,900 | 0 | 0 | 0.0000000 |
| | | + 30 | 672,999,758 | 687,999,795 | -138 | -105 | -0.0000205 |
| | | + 40 | 672,999,747 | 687,999,716 | -149 | -184 | -0.0000267 |
| | | + 50 | 672,999,709 | 687,999,742 | -187 | -158 | -0.0000278 |
| Battery Endpoint | 3.23 | + 20 | 672,999,711 | 687,999,723 | -185 | -177 | -0.0000275 |

Table 7-118. NR Band n71 Frequency Stability Data


| | | | |
|---|---|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 |  PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
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Frequency Stability / Temperature Variation

| NR Band n12 | | | | | | | |
|------------------|-------------|------------|------------------------------|-----------------|---------------------|----------------------|---------------|
| | | | Low Channel Frequency (Hz): | | 834,000,000 | | |
| | | | High Channel Frequency (Hz): | | 839,000,000 | | |
| | | | Ref. Voltage (VDC): | | 3.80 | | |
| Voltage (%) | Power (VDC) | Temp (°C) | Low Freq. (Hz) | High Freq. (Hz) | Low Freq. Dev. (Hz) | High Freq. Dev. (Hz) | Deviation (%) |
| 100 % | 3.80 | - 30 | 833,999,726 | 838,999,701 | -108 | -185 | -0.0000221 |
| | | - 20 | 833,999,708 | 838,999,759 | -126 | -127 | -0.0000151 |
| | | - 10 | 833,999,735 | 838,999,747 | -99 | -139 | -0.0000166 |
| | | 0 | 833,999,730 | 838,999,730 | -104 | -156 | -0.0000186 |
| | | + 10 | 833,999,732 | 838,999,729 | -102 | -157 | -0.0000187 |
| | | + 20 (Ref) | 833,999,834 | 838,999,886 | 0 | 0 | 0.0000000 |
| | | + 30 | 833,999,709 | 838,999,724 | -125 | -162 | -0.0000193 |
| | | + 40 | 833,999,719 | 838,999,756 | -115 | -130 | -0.0000155 |
| | | + 50 | 833,999,725 | 838,999,756 | -109 | -130 | -0.0000155 |
| Battery Endpoint | 3.23 | + 20 | 833,999,655 | 838,999,775 | -179 | -111 | -0.0000215 |

Table 7-119. NR Band n12 Frequency Stability Data


| | | | |
|---|---|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 |  PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
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Frequency Stability / Temperature Variation

| WCDMA AWS | | | | | | | |
|------------------|-------------|------------|------------------------------|-----------------|---------------------|----------------------|---------------|
| | | | Low Channel Frequency (Hz): | | 1,712,400,000 | | |
| | | | High Channel Frequency (Hz): | | 1,752,600,000 | | |
| | | | Ref. Voltage (VDC): | | 3.80 | | |
| Voltage (%) | Power (VDC) | Temp (°C) | Low Freq. (Hz) | High Freq. (Hz) | Low Freq. Dev. (Hz) | High Freq. Dev. (Hz) | Deviation (%) |
| 100 % | 3.80 | - 30 | 1,712,400,050 | 1,752,600,056 | 25 | 26 | 0.0000015 |
| | | - 20 | 1,712,400,040 | 1,752,600,057 | 15 | 27 | 0.0000015 |
| | | - 10 | 1,712,400,046 | 1,752,600,057 | 21 | 27 | 0.0000015 |
| | | 0 | 1,712,400,035 | 1,752,600,046 | 10 | 16 | 0.0000009 |
| | | + 10 | 1,712,400,054 | 1,752,600,055 | 29 | 25 | 0.0000017 |
| | | + 20 (Ref) | 1,712,400,025 | 1,752,600,030 | 0 | 0 | 0.0000000 |
| | | + 30 | 1,712,400,053 | 1,752,600,054 | 28 | 24 | 0.0000016 |
| | | + 40 | 1,712,400,045 | 1,752,600,042 | 20 | 12 | 0.0000012 |
| Battery Endpoint | 3.23 | + 50 | 1,712,400,037 | 1,752,600,056 | 12 | 26 | 0.0000015 |
| | | + 20 | 1,712,400,048 | 1,752,600,044 | 23 | 14 | 0.0000013 |


Table 7-120. WCDMA AWS Frequency Stability Data

| | | | |
|---|---|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 |  PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
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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: BCGA2435** complies with all the requirements of Part 27 of the FCC rules.

| | | | |
|--|---|-----------------------------------|--|
| FCC ID: BCGA2435 |  | PART 27 MEASUREMENT REPORT | Approved by: Technical Manager |
| Test Report S/N: 1C2205090025-03.BCG | Test Dates: 05/30/2022 - 08/29/2022 | EUT Type: Tablet Device | Page 334 of 338 |

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9.0 APPENDIX A

Antenna gains provided by manufacturer:

| Band | Horizontal (dBi) | Vertical (dBi) |
|------|------------------|----------------|
| B1 | 1.3 | 1.1 |
| B2 | 1.5 | 1.3 |
| B3 | 0.5 | -0.5 |
| B5 | -3.1 | -2.6 |
| B7 | -3.1 | -0.3 |
| B8 | -1.7 | -2.8 |
| B11 | -1.1 | -4 |
| B13 | -1.5 | -1.9 |
| B17 | -2.4 | -1.9 |
| B20 | -3.4 | -2.6 |
| B21 | -1.4 | -3.9 |
| B28 | -2.5 | -1.9 |
| B30 | -2.8 | -2.1 |
| B34 | -3.1 | -0.8 |
| B39 | 1.5 | 0.8 |
| B40 | -2.6 | -2.1 |
| B41 | -3.2 | -0.4 |
| B42 | -1.2 | -3.4 |
| B48 | -1.2 | -3.5 |
| B66 | 0.4 | -0.9 |
| B71 | -1.9 | -2.1 |
| n41 | -3.2 | -0.4 |
| n70 | -1.6 | -1.9 |
| n77 | -0.6 | -2.6 |
| n78 | -2.9 | -2.6 |
| n79 | 0.1 | -0.3 |

Table 9-1. Cellular Antenna Gain (Ant 1); Type: IFA


| | | | |
|--|---|-----------------------------------|--|
| FCC ID: BCGA2435 |  PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
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| Band | Horizontal (dBi) | Vertical (dBi) |
|------|------------------|----------------|
| B1 | 0.6 | 0.6 |
| B2 | 1.4 | 0.5 |
| B3 | 2.1 | 0.7 |
| B5 | -3.3 | -1.3 |
| B7 | -3.1 | -2.7 |
| B8 | -2.2 | -3.2 |
| B11 | 0.1 | -2.3 |
| B13 | -2.7 | -3 |
| B17 | -2.5 | -2.3 |
| B20 | -2.6 | -1.7 |
| B21 | 0.2 | -1.9 |
| B28 | -2.2 | -1.1 |
| B30 | -4.1 | -3.8 |
| B34 | -1.62 | 0.31 |
| B39 | 1.4 | 0.6 |
| B40 | -5.5 | -1.2 |
| B41 | -5.6 | -2.7 |
| B42 | -1.5 | -0.1 |
| B48 | -1.5 | 0 |
| B66 | 2.3 | 0.8 |
| B71 | -3.1 | -3.6 |
| n41 | -5.6 | -2.7 |
| n70 | 2 | 0.7 |
| n77 | -1.8 | -0.1 |
| n78 | -1 | 0.6 |
| n79 | -2.9 | -0.6 |


Table 9-2. Cellular Antenna Gain (Ant 3); Type: IFA

| | | | |
|--|---|-----------------------------------|--|
| FCC ID: BCGA2435 |  PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
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| Band | Horizontal (dBi) | Vertical (dBi) |
|------|------------------|----------------|
| B1 | -3.5 | -1.3 |
| B2 | -3.4 | -2.7 |
| B3 | -3.7 | -3.2 |
| B7 | -1.5 | 0.2 |
| B30 | -2.6 | -0.3 |
| B39 | -3.7 | -3 |
| B40 | -2.6 | 0.3 |
| B41 | -1.9 | -0.4 |
| B42 | -2.6 | -1 |
| B48 | -2.5 | -1.6 |
| B66 | -3.4 | -3.1 |
| n41 | -1.9 | -0.4 |
| n70 | -3.4 | -3.1 |
| n77 | -1.5 | -2.6 |
| n78 | -1.6 | -2.6 |
| n79 | 0.1 | 0.3 |


Table 9-3. Cellular Antenna Gain (Ant 4b); Type: IFA

| | | | |
|--|---|-----------------------------------|--|
| FCC ID: BCGA2435 |  PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
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| Band | Horizontal (dBi) | Vertical (dBi) |
|------|------------------|----------------|
| B1 | -3.3 | -2.9 |
| B2 | -4.9 | -4 |
| B3 | -4.5 | -5 |
| B7 | 0 | -0.1 |
| B30 | -0.6 | 0.7 |
| B39 | -4.7 | -4.3 |
| B40 | -0.3 | 1.1 |
| B41 | -0.3 | -0.8 |
| B66 | -4.6 | -5.5 |
| n41 | -0.3 | -0.8 |
| n70 | -4.9 | -4.9 |

Table 9-4. Cellular Antenna Gain (Ant 2b); Type: IFA

| | | | |
|--|---|-----------------------------------|--|
| FCC ID: BCGA2435 |  PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
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