

Plot 7-262. PAR Plot (LTE Band 4 - 15MHz QPSK - Full RB)



Plot 7-263. PAR Plot (LTE Band 4 - 15MHz 16-QAM - Full RB)

|   |  |                            |                 |                                   |
|---|--|----------------------------|-----------------|-----------------------------------|
| FCC ID: BCG-A3337                       | element                                | PART 27 MEASUREMENT REPORT |                 | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2503270033-03.BCG | Test Dates:<br>01/31/2025 - 07/21/2025 | EUT Type:<br>Watch         | Page 157 of 202 |                                   |



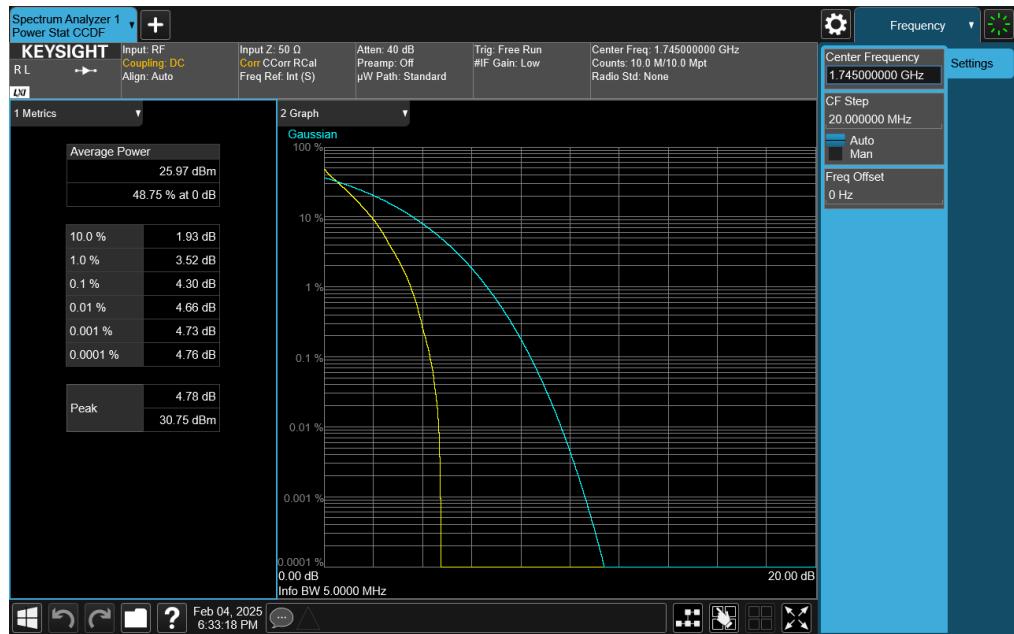
Plot 7-264. PAR Plot (LTE Band 4 - 20MHz QPSK - Full RB)



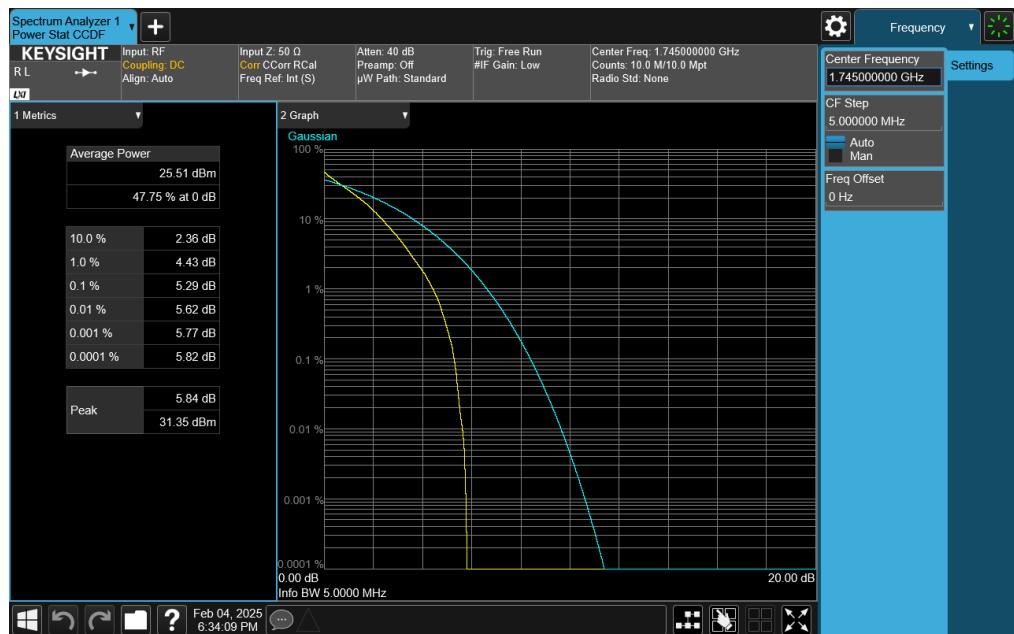
Plot 7-265. PAR Plot (LTE Band 4 - 20MHz 16-QAM - Full RB)

|   |  |                    |  |                                   |
|---|--|--------------------|--|-----------------------------------|
| FCC ID: BCG-A3337                       | PART 27 MEASUREMENT REPORT             |                    |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2503270033-03.BCG | Test Dates:<br>01/31/2025 - 07/21/2025 | EUT Type:<br>Watch |  | Page 158 of 202                   |

## NR Band n66

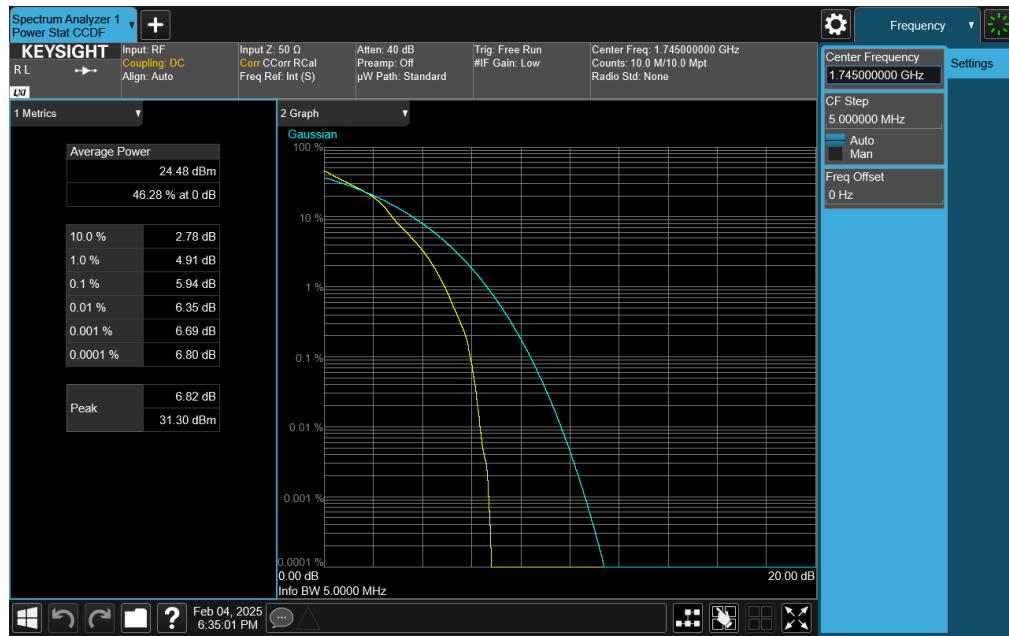


Plot 7-266. PAR Plot (NR Band n66 - 5.0MHz DFT-s-OFDM π/2 BPSK - Full RB)

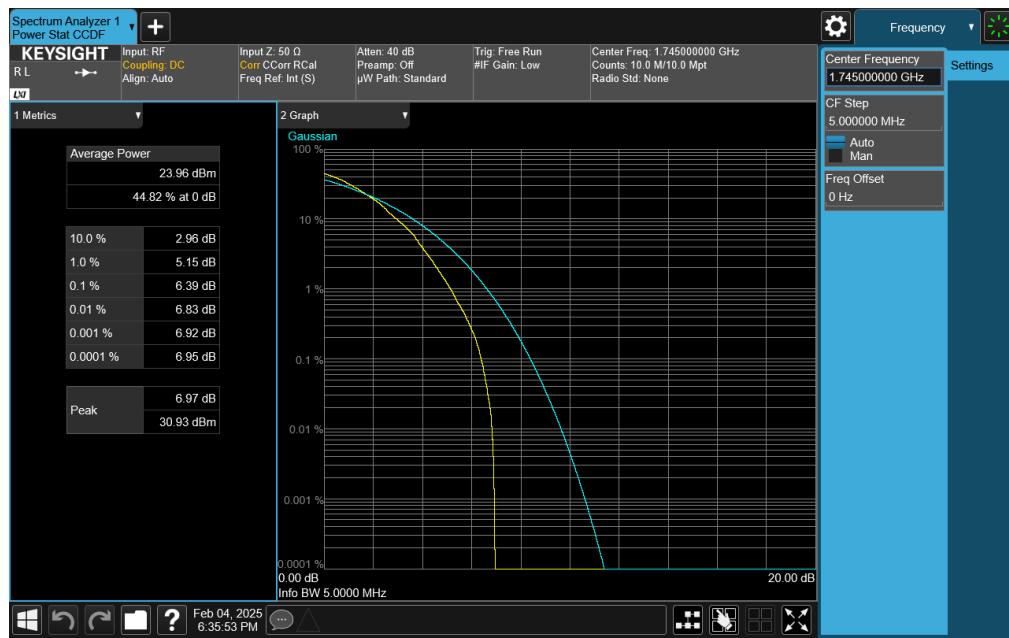


Plot 7-267. PAR Plot (NR Band n66 - 5.0MHz DFT-S-OFDM QPSK - Full RB)

|   |  |                            |                 |                                   |
|---|--|----------------------------|-----------------|-----------------------------------|
| FCC ID: BCG-A3337                       | element                                | PART 27 MEASUREMENT REPORT |                 | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2503270033-03.BCG | Test Dates:<br>01/31/2025 - 07/21/2025 | EUT Type:<br>Watch         | Page 159 of 202 |                                   |

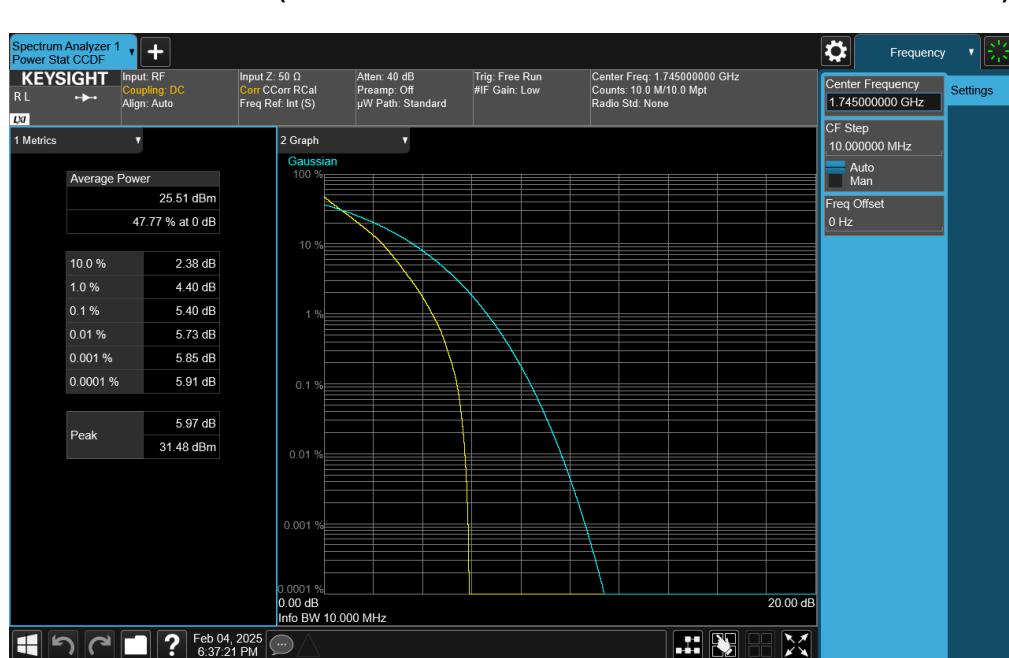
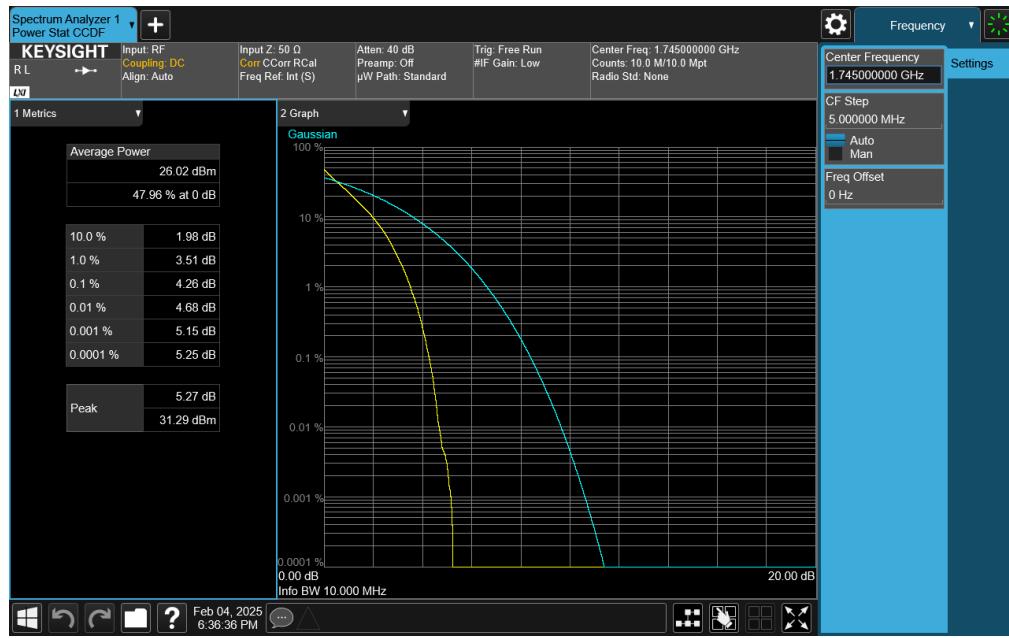


Plot 7-268. PAR Plot (NR Band n66 - 5.0MHz DFT-S-OFDM 16-QAM - Full RB)

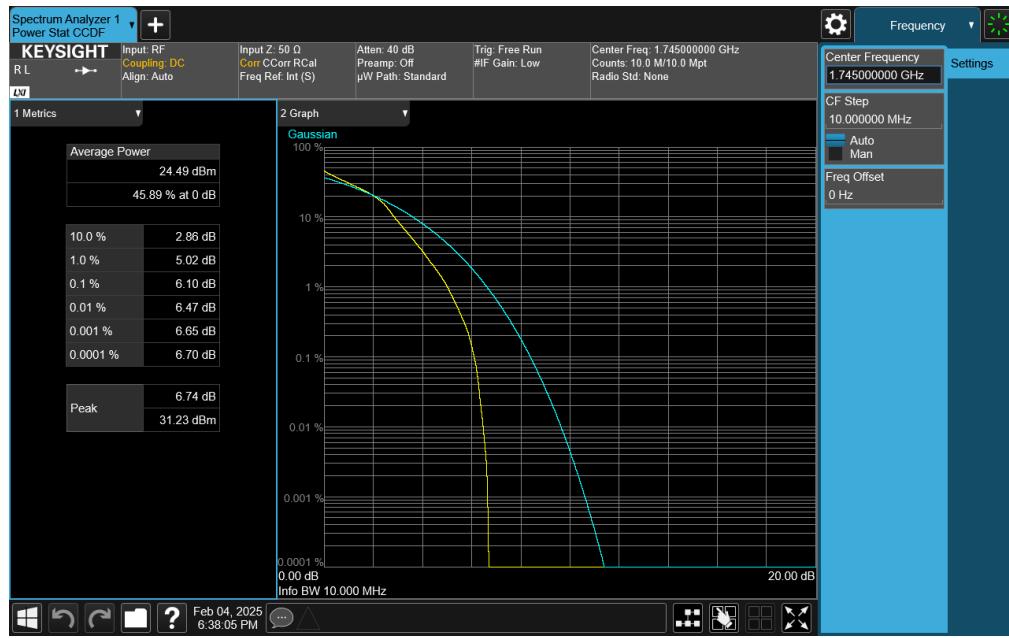


Plot 7-269. PAR Plot (NR Band n66 - 5.0MHz DFT-S-OFDM 64-QAM - Full RB)

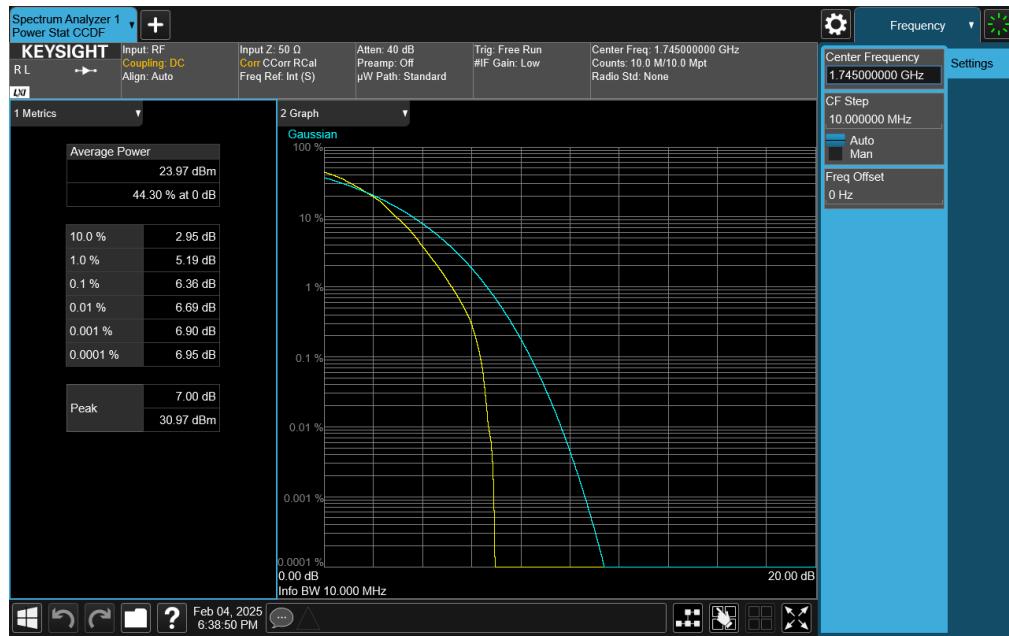
|   |  |                            |                 |                                   |
|---|--|----------------------------|-----------------|-----------------------------------|
| FCC ID: BCG-A3337                       | element                                | PART 27 MEASUREMENT REPORT |                 | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2503270033-03.BCG | Test Dates:<br>01/31/2025 - 07/21/2025 | EUT Type:<br>Watch         | Page 160 of 202 |                                   |



|   |  |                    |                                   |
|---|--|--------------------|-----------------------------------|
| FCC ID: BCG-A3337                       | PART 27 MEASUREMENT REPORT             |                    | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2503270033-03.BCG | Test Dates:<br>01/31/2025 - 07/21/2025 | EUT Type:<br>Watch | Page 161 of 202                   |

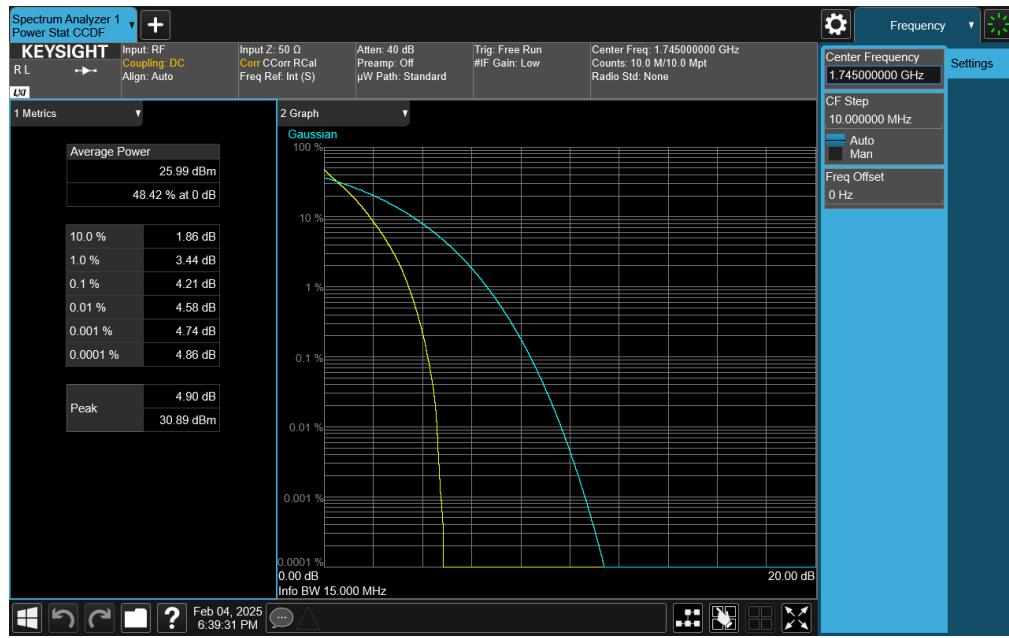


Plot 7-272. PAR Plot (NR Band n66 - 10.0MHz DFT-S-OFDM 16-QAM - Full RB)

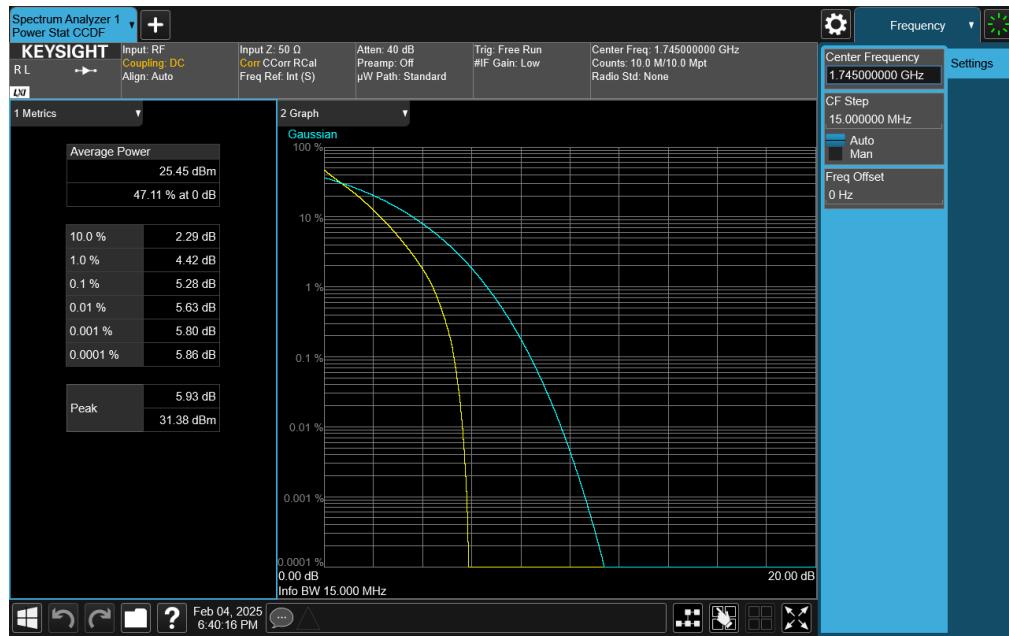


Plot 7-273. PAR Plot (NR Band n66 - 10.0MHz DFT-S-OFDM 64-QAM - Full RB)

|   |  |                            |                 |                                   |
|---|--|----------------------------|-----------------|-----------------------------------|
| FCC ID: BCG-A3337                       | element                                | PART 27 MEASUREMENT REPORT |                 | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2503270033-03.BCG | Test Dates:<br>01/31/2025 - 07/21/2025 | EUT Type:<br>Watch         | Page 162 of 202 |                                   |

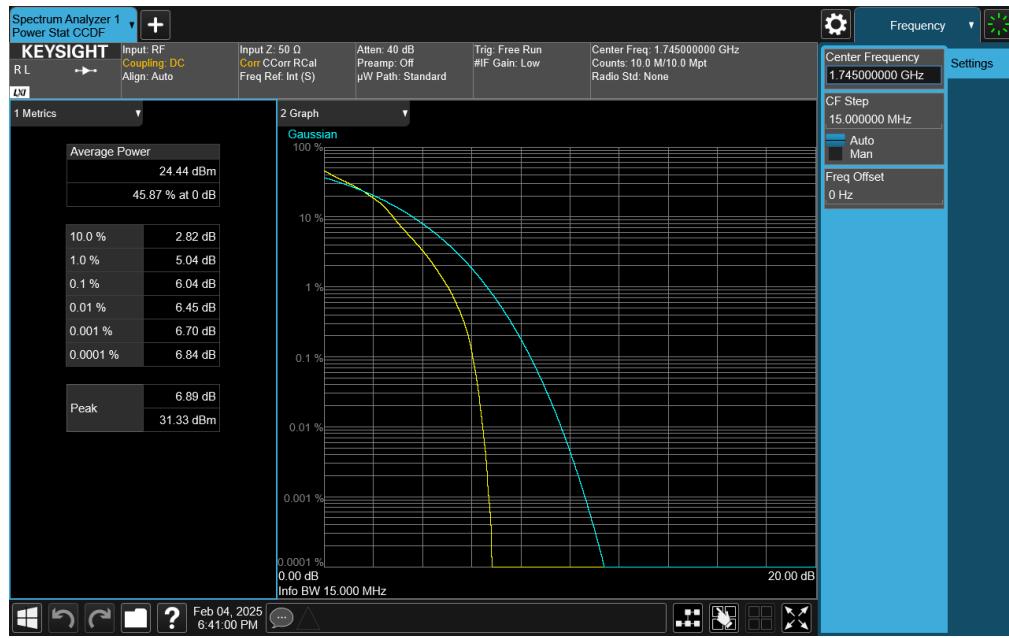


Plot 7-274. PAR Plot (NR Band n66 - 15.0MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)

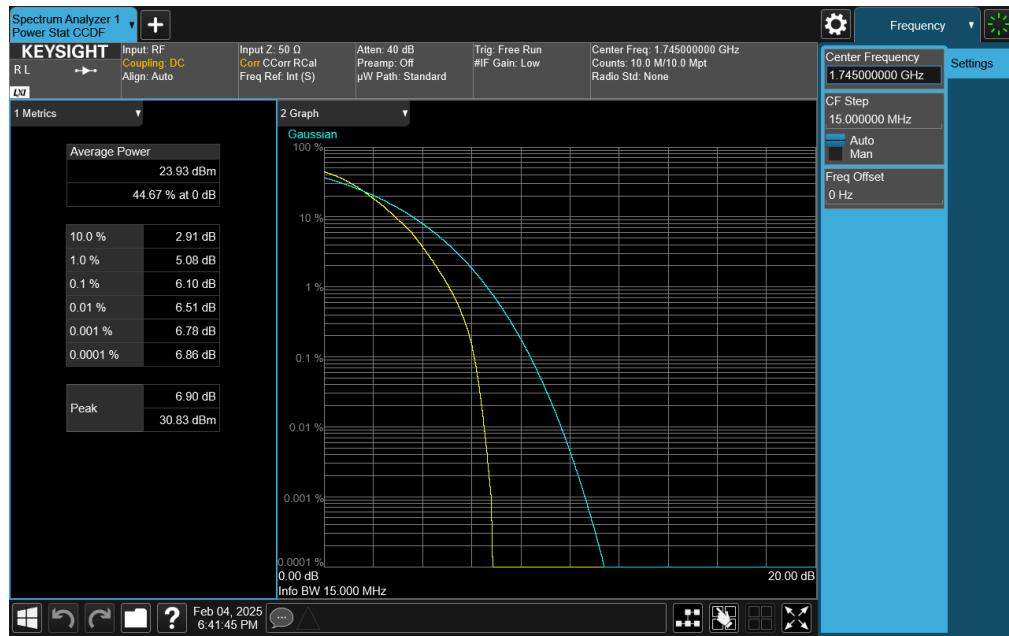


Plot 7-275. PAR Plot (NR Band n66 - 15.0MHz DFT-S-OFDM QPSK - Full RB)

|   |  |                            |                 |                                   |
|---|--|----------------------------|-----------------|-----------------------------------|
| FCC ID: BCG-A3337                       | element                                | PART 27 MEASUREMENT REPORT |                 | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2503270033-03.BCG | Test Dates:<br>01/31/2025 - 07/21/2025 | EUT Type:<br>Watch         | Page 163 of 202 |                                   |

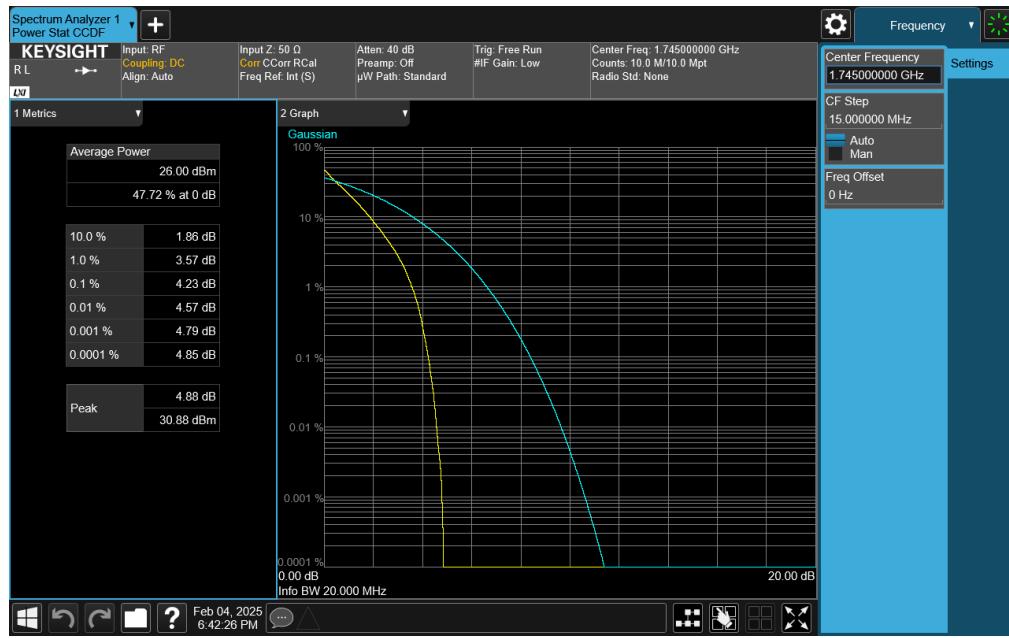


Plot 7-276. PAR Plot (NR Band n66 - 15.0MHz DFT-S-OFDM 16-QAM - Full RB)

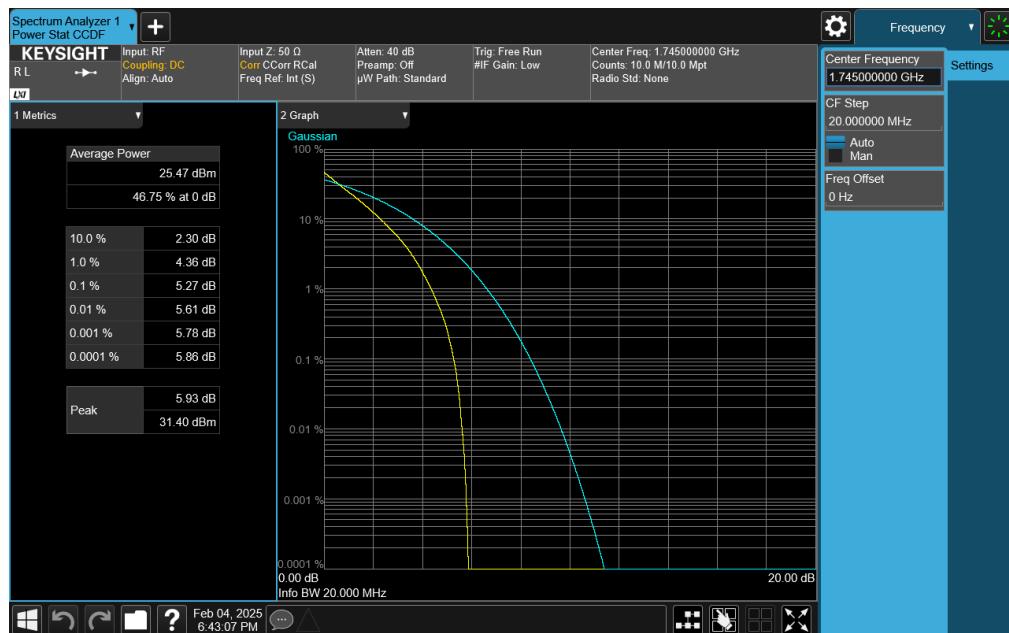


Plot 7-277. PAR Plot (NR Band n66 - 15.0MHz DFT-S-OFDM 64-QAM - Full RB)

|   |  |                            |                 |                                   |
|---|--|----------------------------|-----------------|-----------------------------------|
| FCC ID: BCG-A3337                       | element                                | PART 27 MEASUREMENT REPORT |                 | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2503270033-03.BCG | Test Dates:<br>01/31/2025 - 07/21/2025 | EUT Type:<br>Watch         | Page 164 of 202 |                                   |

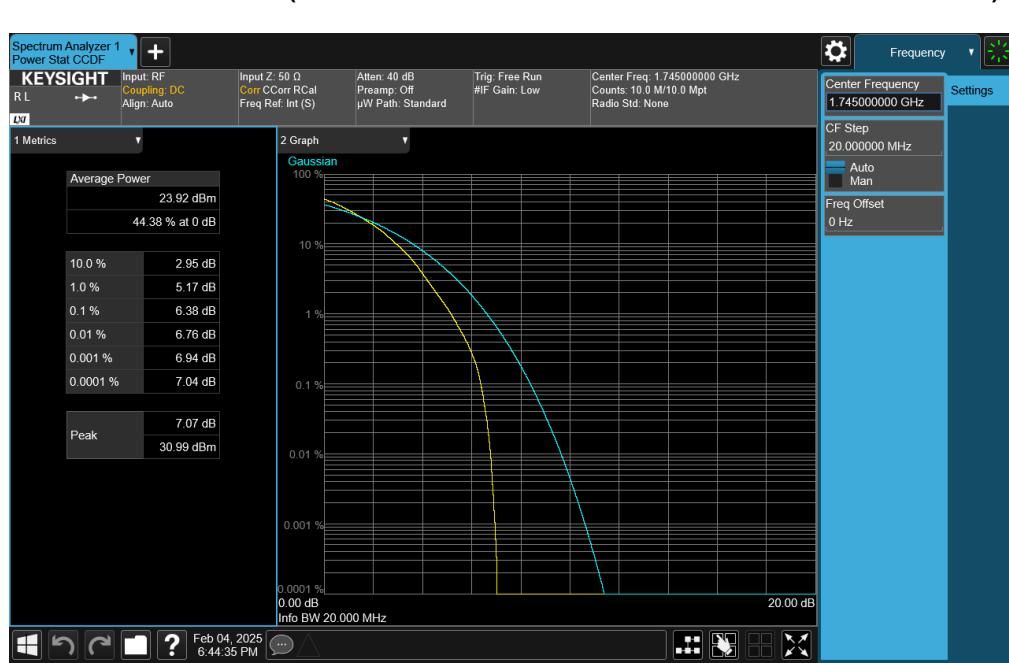
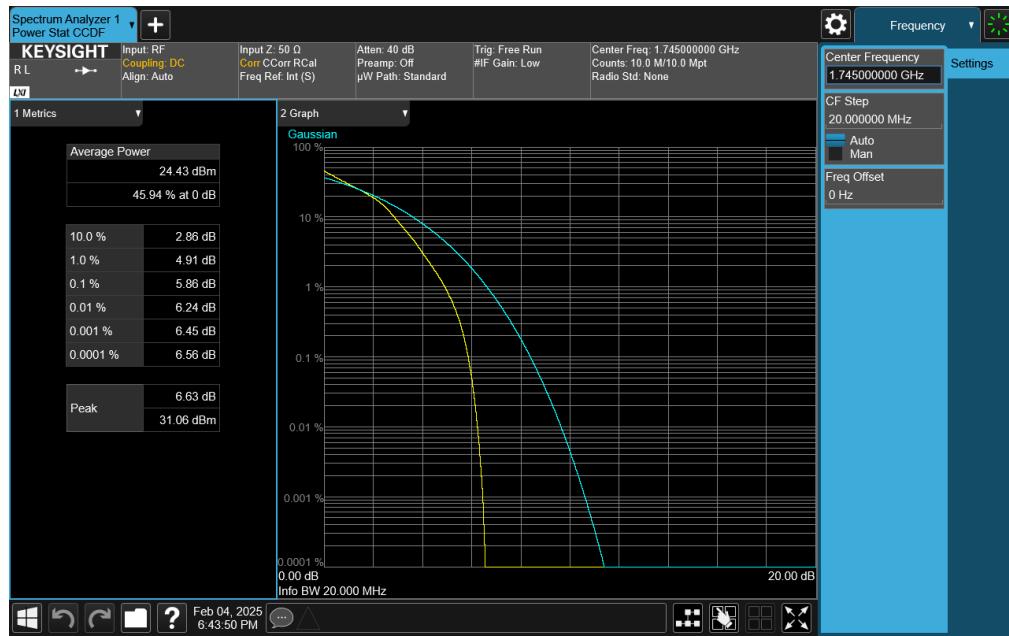


Plot 7-278. PAR Plot (NR Band n66 - 20.0MHz DFT-s-OFDM  $\pi/2$  BPSK - Full RB)



Plot 7-279. PAR Plot (NR Band n66 - 20.0MHz DFT-S-OFDM QPSK - Full RB)

|   |  |                            |                 |                                   |
|---|--|----------------------------|-----------------|-----------------------------------|
| FCC ID: BCG-A3337                       | element                                | PART 27 MEASUREMENT REPORT |                 | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2503270033-03.BCG | Test Dates:<br>01/31/2025 - 07/21/2025 | EUT Type:<br>Watch         | Page 165 of 202 |                                   |



|   |  |                            |                 |                                   |
|---|--|----------------------------|-----------------|-----------------------------------|
| FCC ID: BCG-A3337                       | element                                | PART 27 MEASUREMENT REPORT |                 | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2503270033-03.BCG | Test Dates:<br>01/31/2025 - 07/21/2025 | EUT Type:<br>Watch         | Page 166 of 202 |                                   |

## 7.6 Radiated Power (ERP/EIRP)

§27.50(b)(10), §27.50(c)(10), §27.50(d)(4)

### Test Overview

Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) 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:

$$\text{ERP/EIRP} = \text{PMes} - \text{LC} + \text{GT}$$

Where:

ERP/EIRP = Effective or Equivalent Isotropic Radiated Power, respectively (expressed in the same units as PMes, typically dBW or dBm)

PMes = 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.

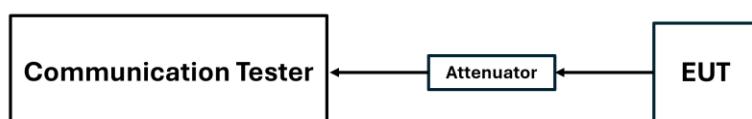


Figure 7-9. LTE ERP/EIRP Measurement Setup

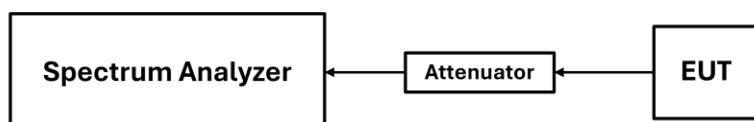


Figure 7-10. FR1 ERP/EIRP Measurement Setup

|   |   |                            |  |                                   |
|---|---|----------------------------|--|-----------------------------------|
| FCC ID: BCG-A3337                       |  element | PART 27 MEASUREMENT REPORT |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2503270033-03.BCG | Test Dates:<br>01/31/2025 - 07/21/2025  | EUT Type:<br>Watch         |  | Page 167 of 202                   |

## 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. The Ant. Gains (GT) are listed in dBi.
5. 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.

|   |   |                            |  |                                   |
|---|---|----------------------------|--|-----------------------------------|
| FCC ID: BCG-A3337                       |  element | PART 27 MEASUREMENT REPORT |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2503270033-03.BCG | Test Dates:<br>01/31/2025 - 07/21/2025  | EUT Type:<br>Watch         |  | Page 168 of 202                   |

## 7.6.1 Antenna FCM – EIRP

### LTE Band 66

| Bandwidth | Mod.   | Frequency [MHz] | Ant. Gain [dBi] | RB Size/Offset | Conducted Power [dBm] | EIRP [dBm]   | EIRP [mW] | EIRP Limit [dBm] | Margin [dB] |
|-----------|--------|-----------------|-----------------|----------------|-----------------------|--------------|-----------|------------------|-------------|
| 1.4 MHz   | QPSK   | 1710.7          | -10.50          | 1 / 0          | 24.97                 | 14.47        | 27.990    | 30.00            | -15.53      |
|           |        | 1745.0          | -10.50          | 1 / 5          | 24.97                 | 14.47        | 27.990    | 30.00            | -15.53      |
|           |        | 1779.3          | -10.50          | 1 / 0          | 25.16                 | <b>14.66</b> | 29.242    | 30.00            | -15.34      |
|           | 16-QAM | 1745.0          | -10.50          | 1 / 5          | 24.40                 | 13.90        | 24.547    | 30.00            | -16.10      |
| 3 MHz     | QPSK   | 1711.5          | -10.50          | 1 / 7          | 24.97                 | <b>14.47</b> | 27.990    | 30.00            | -15.53      |
|           |        | 1745.0          | -10.50          | 1 / 7          | 24.95                 | 14.45        | 27.861    | 30.00            | -15.55      |
|           |        | 1778.5          | -10.50          | 1 / 7          | 24.91                 | 14.41        | 27.606    | 30.00            | -15.59      |
|           | 16-QAM | 1745.0          | -10.50          | 1 / 14         | 24.41                 | 13.91        | 24.604    | 30.00            | -16.09      |
| 5 MHz     | QPSK   | 1712.5          | -10.50          | 1 / 24         | 25.06                 | <b>14.56</b> | 28.576    | 30.00            | -15.44      |
|           |        | 1745.0          | -10.50          | 1 / 24         | 25.05                 | 14.55        | 28.510    | 30.00            | -15.45      |
|           |        | 1777.5          | -10.50          | 1 / 24         | 24.85                 | 14.35        | 27.227    | 30.00            | -15.65      |
|           | 16-QAM | 1745.0          | -10.50          | 1 / 24         | 24.63                 | 14.13        | 25.882    | 30.00            | -15.87      |
| 10 MHz    | QPSK   | 1715.0          | -10.50          | 1 / 49         | 24.98                 | <b>14.48</b> | 28.054    | 30.00            | -15.52      |
|           |        | 1745.0          | -10.50          | 1 / 49         | 24.98                 | <b>14.48</b> | 28.054    | 30.00            | -15.52      |
|           |        | 1775.0          | -10.50          | 1 / 49         | 24.88                 | 14.38        | 27.416    | 30.00            | -15.62      |
|           | 16-QAM | 1745.0          | -10.50          | 1 / 0          | 24.38                 | 13.88        | 24.434    | 30.00            | -16.12      |
| 15 MHz    | QPSK   | 1717.5          | -10.50          | 1 / 37         | 25.20                 | <b>14.70</b> | 29.512    | 30.00            | -15.30      |
|           |        | 1745.0          | -10.50          | 1 / 37         | 25.07                 | 14.57        | 28.642    | 30.00            | -15.43      |
|           |        | 1772.5          | -10.50          | 1 / 37         | 24.87                 | 14.37        | 27.353    | 30.00            | -15.63      |
|           | 16-QAM | 1745.0          | -10.50          | 1 / 37         | 24.39                 | 13.89        | 24.491    | 30.00            | -16.11      |
| 20 MHz    | QPSK   | 1720.0          | -10.50          | 1 / 50         | 25.13                 | <b>14.63</b> | 29.040    | 30.00            | -15.37      |
|           |        | 1745.0          | -10.50          | 1 / 50         | 24.87                 | 14.37        | 27.353    | 30.00            | -15.63      |
|           |        | 1770.0          | -10.50          | 1 / 99         | 25.02                 | 14.52        | 28.314    | 30.00            | -15.48      |
|           | 16-QAM | 1770.0          | -10.50          | 1 / 99         | 24.55                 | 14.05        | 25.410    | 30.00            | -15.95      |

Table 7-2. Antenna FCM EIRP Data LTE Band 66

|   |  |                    |                 |                                   |
|---|--|--------------------|-----------------|-----------------------------------|
| FCC ID: BCG-A3337                       | PART 27 MEASUREMENT REPORT             |                    |                 | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2503270033-03.BCG | Test Dates:<br>01/31/2025 - 07/21/2025 | EUT Type:<br>Watch | Page 169 of 202 |                                   |

**LTE Band 4**

| Bandwidth | Mod.   | Frequency [MHz] | Ant. Gain [dBi] | RB Size/Offset | Conducted Power [dBm] | EIRP [dBm]   | EIRP [mW] | EIRP Limit [dBm] | Margin [dB] |
|-----------|--------|-----------------|-----------------|----------------|-----------------------|--------------|-----------|------------------|-------------|
| 1.4 MHz   | QPSK   | 1710.7          | -10.50          | 1 / 0          | 25.07                 | 14.57        | 28.642    | 30.00            | -15.43      |
|           |        | 1732.5          | -10.50          | 1 / 0          | 25.20                 | <b>14.70</b> | 29.512    | 30.00            | -15.30      |
|           |        | 1754.3          | -10.50          | 1 / 5          | 24.97                 | 14.47        | 27.990    | 30.00            | -15.53      |
|           | 16-QAM | 1710.7          | -10.50          | 1 / 0          | 24.49                 | 13.99        | 25.061    | 30.00            | -16.01      |
| 3 MHz     | QPSK   | 1711.5          | -10.50          | 1 / 0          | 25.01                 | 14.51        | 28.249    | 30.00            | -15.49      |
|           |        | 1732.5          | -10.50          | 1 / 0          | 25.05                 | <b>14.55</b> | 28.510    | 30.00            | -15.45      |
|           |        | 1753.5          | -10.50          | 1 / 0          | 24.91                 | 14.41        | 27.606    | 30.00            | -15.59      |
|           | 16-QAM | 1732.5          | -10.50          | 1 / 14         | 24.42                 | 13.92        | 24.660    | 30.00            | -16.08      |
| 5 MHz     | QPSK   | 1712.5          | -10.50          | 1 / 24         | 25.09                 | 14.59        | 28.774    | 30.00            | -15.41      |
|           |        | 1732.5          | -10.50          | 1 / 0          | 25.10                 | <b>14.60</b> | 28.840    | 30.00            | -15.40      |
|           |        | 1752.5          | -10.50          | 1 / 0          | 24.85                 | 14.35        | 27.227    | 30.00            | -15.65      |
|           | 16-QAM | 1732.5          | -10.50          | 1 / 12         | 24.63                 | 14.13        | 25.882    | 30.00            | -15.87      |
| 10 MHz    | QPSK   | 1715.0          | -10.50          | 1 / 49         | 24.96                 | 14.46        | 27.925    | 30.00            | -15.54      |
|           |        | 1732.5          | -10.50          | 1 / 25         | 25.00                 | <b>14.50</b> | 28.184    | 30.00            | -15.50      |
|           |        | 1750.0          | -10.50          | 1 / 0          | 24.91                 | 14.41        | 27.606    | 30.00            | -15.59      |
|           | 16-QAM | 1732.5          | -10.50          | 1 / 49         | 24.35                 | 13.85        | 24.266    | 30.00            | -16.15      |
| 15 MHz    | QPSK   | 1717.5          | -10.50          | 1 / 37         | 25.20                 | <b>14.70</b> | 29.512    | 30.00            | -15.30      |
|           |        | 1732.5          | -10.50          | 1 / 37         | 25.12                 | 14.62        | 28.973    | 30.00            | -15.38      |
|           |        | 1747.5          | -10.50          | 1 / 37         | 24.98                 | 14.48        | 28.054    | 30.00            | -15.52      |
|           | 16-QAM | 1732.5          | -10.50          | 1 / 37         | 24.44                 | 13.94        | 24.774    | 30.00            | -16.06      |
| 20 MHz    | QPSK   | 1720.0          | -10.50          | 1 / 50         | 25.15                 | 14.65        | 29.174    | 30.00            | -15.35      |
|           |        | 1732.5          | -10.50          | 1 / 50         | 24.93                 | 14.43        | 27.733    | 30.00            | -15.57      |
|           |        | 1745.0          | -10.50          | 1 / 50         | 25.17                 | <b>14.67</b> | 29.309    | 30.00            | -15.33      |
|           | 16-QAM | 1745.0          | -10.50          | 1 / 50         | 24.66                 | 14.16        | 26.062    | 30.00            | -15.84      |

**Table 7-3. Antenna FCM EIRP Data LTE Band 4**

|   |   |                            |  |  |  |                                   |
|---|---|----------------------------|--|--|--|-----------------------------------|
| FCC ID: BCG-A3337                       |  element | PART 27 MEASUREMENT REPORT |  |  |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2503270033-03.BCG | Test Dates:<br>01/31/2025 - 07/21/2025  | EUT Type:<br>Watch         |  |  |  |                                   |

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**NR Band n66**

| Bandwidth | Mod.     | Frequency [MHz] | Ant. Gain [dBi] | RB Size/Offset | Conducted Power [dBm] | EIRP [dBm]   | EIRP [mW] | EIRP Limit [dBm] | Margin [dB] |
|-----------|----------|-----------------|-----------------|----------------|-----------------------|--------------|-----------|------------------|-------------|
| 5 MHz     | π/2 BPSK | 1712.5          | -10.50          | 1 / 24         | 24.93                 | 14.43        | 27.739    | 30.00            | -15.57      |
|           |          | 1745.0          | -10.50          | 1 / 0          | 24.92                 | 14.42        | 27.700    | 30.00            | -15.58      |
|           |          | 1777.5          | -10.50          | 1 / 0          | 24.83                 | 14.33        | 27.088    | 30.00            | -15.67      |
|           | QPSK     | 1712.5          | -10.50          | 1 / 24         | 24.95                 | 14.45        | 27.886    | 30.00            | -15.55      |
|           |          | 1745.0          | -10.50          | 1 / 0          | 24.98                 | <b>14.48</b> | 28.036    | 30.00            | -15.52      |
|           |          | 1777.5          | -10.50          | 1 / 0          | 24.91                 | 14.41        | 27.613    | 30.00            | -15.59      |
|           | 16-QAM   | 1745.0          | -10.50          | 1 / 0          | 23.74                 | 13.24        | 21.072    | 30.00            | -16.76      |
|           |          | 1745.0          | -10.50          | 1 / 12         | 22.54                 | 12.04        | 15.996    | 30.00            | -17.96      |
| 10 MHz    | π/2 BPSK | 1715.0          | -10.50          | 1 / 49         | 24.94                 | 14.44        | 27.787    | 30.00            | -15.56      |
|           |          | 1745.0          | -10.50          | 1 / 0          | 24.96                 | 14.46        | 27.895    | 30.00            | -15.54      |
|           |          | 1775.0          | -10.50          | 1 / 25         | 24.83                 | 14.33        | 27.114    | 30.00            | -15.67      |
|           | QPSK     | 1715.0          | -10.50          | 1 / 49         | 24.98                 | 14.48        | 28.059    | 30.00            | -15.52      |
|           |          | 1745.0          | -10.50          | 1 / 0          | 25.01                 | <b>14.51</b> | 28.237    | 30.00            | -15.49      |
|           |          | 1775.0          | -10.50          | 1 / 25         | 24.87                 | 14.37        | 27.326    | 30.00            | -15.63      |
|           | 16-QAM   | 1715.0          | -10.50          | 1 / 49         | 23.78                 | 13.28        | 21.289    | 30.00            | -16.72      |
|           |          | 1715.0          | -10.50          | 1 / 25         | 22.51                 | 12.01        | 15.885    | 30.00            | -17.99      |
| 15 MHz    | π/2 BPSK | 1717.5          | -10.50          | 1 / 37         | 24.96                 | 14.46        | 27.951    | 30.00            | -15.54      |
|           |          | 1745.0          | -10.50          | 1 / 37         | 24.99                 | <b>14.49</b> | 28.088    | 30.00            | -15.51      |
|           |          | 1772.5          | -10.50          | 1 / 37         | 24.87                 | 14.37        | 27.367    | 30.00            | -15.63      |
|           | QPSK     | 1717.5          | -10.50          | 1 / 74         | 24.95                 | 14.45        | 27.846    | 30.00            | -15.55      |
|           |          | 1745.0          | -10.50          | 1 / 0          | 24.98                 | 14.48        | 28.086    | 30.00            | -15.52      |
|           |          | 1772.5          | -10.50          | 1 / 37         | 24.84                 | 14.34        | 27.174    | 30.00            | -15.66      |
|           | 16-QAM   | 1745.0          | -10.50          | 1 / 0          | 23.75                 | 13.25        | 21.133    | 30.00            | -16.75      |
|           |          | 1717.5          | -10.50          | 1 / 0          | 22.53                 | 12.03        | 15.959    | 30.00            | -17.97      |
| 20 MHz    | π/2 BPSK | 1720.0          | -10.50          | 1 / 99         | 24.94                 | 14.44        | 27.776    | 30.00            | -15.56      |
|           |          | 1745.0          | -10.50          | 1 / 0          | 24.95                 | 14.45        | 27.884    | 30.00            | -15.55      |
|           |          | 1770.0          | -10.50          | 1 / 0          | 24.82                 | 14.32        | 27.051    | 30.00            | -15.68      |
|           | QPSK     | 1720.0          | -10.50          | 1 / 99         | 24.95                 | 14.45        | 27.863    | 30.00            | -15.55      |
|           |          | 1745.0          | -10.50          | 1 / 0          | 24.96                 | <b>14.46</b> | 27.957    | 30.00            | -15.54      |
|           |          | 1770.0          | -10.50          | 1 / 0          | 24.84                 | 14.34        | 27.188    | 30.00            | -15.66      |
|           | 16-QAM   | 1720.0          | -10.50          | 1 / 50         | 23.74                 | 13.24        | 21.097    | 30.00            | -16.76      |
|           |          | 1720.0          | -10.50          | 1 / 50         | 22.54                 | 12.04        | 15.996    | 30.00            | -17.96      |

**Table 7-4. Antenna FCM EIRP Data NR Band n66**

|   |   |                            |  |  |  |                                   |
|---|---|----------------------------|--|--|--|-----------------------------------|
| FCC ID: BCG-A3337                       |  element | PART 27 MEASUREMENT REPORT |  |  |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2503270033-03.BCG | Test Dates:<br>01/31/2025 - 07/21/2025  | EUT Type:<br>Watch         |  |  |  |                                   |

## 7.6.2 Antenna BCM – ERP

### LTE Band 71

| Bandwidth | Mod.   | Frequency [MHz] | Ant. Gain [dBi] | RB Size/Offset | Conducted Power [dBm] | ERP [dBm]    | ERP [mW] | ERP Limit [dBm] | Margin [dB] |
|-----------|--------|-----------------|-----------------|----------------|-----------------------|--------------|----------|-----------------|-------------|
| 5 MHz     | QPSK   | 665.5           | -27.50          | 1 / 24         | 25.47                 | <b>-4.18</b> | 0.382    | 34.77           | -38.95      |
|           |        | 680.5           | -27.50          | 1 / 12         | 25.68                 | -3.97        | 0.401    | 34.77           | -38.74      |
|           |        | 695.5           | -27.50          | 1 / 24         | 25.67                 | -3.98        | 0.400    | 34.77           | -38.75      |
|           | 16-QAM | 680.5           | -27.50          | 1 / 24         | 24.64                 | -5.01        | 0.316    | 34.77           | -39.78      |
| 10 MHz    | QPSK   | 668.0           | -27.50          | 1 / 0          | 25.46                 | -4.19        | 0.381    | 34.77           | -38.96      |
|           |        | 680.5           | -27.50          | 1 / 0          | 25.70                 | <b>-3.95</b> | 0.403    | 34.77           | -38.72      |
|           |        | 693.0           | -27.50          | 1 / 0          | 25.69                 | -3.96        | 0.402    | 34.77           | -38.73      |
|           | 16-QAM | 693.0           | -27.50          | 1 / 25         | 24.68                 | -4.97        | 0.318    | 34.77           | -39.74      |
| 15 MHz    | QPSK   | 670.5           | -27.50          | 1 / 0          | 25.60                 | -4.05        | 0.394    | 34.77           | -38.82      |
|           |        | 680.5           | -27.50          | 1 / 37         | 25.57                 | -4.08        | 0.391    | 34.77           | -38.85      |
|           |        | 690.5           | -27.50          | 1 / 0          | 25.56                 | -4.09        | 0.390    | 34.77           | -38.86      |
|           | 16-QAM | 690.5           | -27.50          | 1 / 74         | 24.67                 | -4.98        | 0.318    | 34.77           | -39.75      |
| 20 MHz    | QPSK   | 673.0           | -27.50          | 1 / 99         | 25.69                 | <b>-3.96</b> | 0.402    | 34.77           | -38.73      |
|           |        | 680.5           | -27.50          | 1 / 0          | 25.62                 | -4.03        | 0.395    | 34.77           | -38.80      |
|           |        | 688.0           | -27.50          | 1 / 0          | 25.63                 | -4.02        | 0.396    | 34.77           | -38.79      |
|           | 16-QAM | 680.5           | -27.50          | 1 / 50         | 24.67                 | -4.98        | 0.318    | 34.77           | -39.75      |

Table 7-5. Antenna BCM ERP Data LTE Band 71

### LTE Band 12

| Bandwidth | Mod.   | Frequency [MHz] | Ant. Gain [dBi] | RB Size/Offset | Conducted Power [dBm] | ERP [dBm]    | ERP [mW] | ERP Limit [dBm] | Margin [dB] |
|-----------|--------|-----------------|-----------------|----------------|-----------------------|--------------|----------|-----------------|-------------|
| 1.4 MHz   | QPSK   | 699.7           | -27.30          | 1 / 5          | 25.59                 | <b>-3.86</b> | 0.411    | 34.77           | -38.63      |
|           |        | 707.5           | -27.30          | 1 / 0          | 25.67                 | -3.78        | 0.419    | 34.77           | -38.55      |
|           |        | 715.3           | -27.30          | 1 / 5          | 25.70                 | <b>-3.75</b> | 0.422    | 34.77           | -38.52      |
|           | 16-QAM | 707.5           | -27.30          | 1 / 3          | 24.59                 | -4.86        | 0.327    | 34.77           | -39.63      |
| 3 MHz     | QPSK   | 700.5           | -27.30          | 1 / 7          | 25.45                 | -4.00        | 0.398    | 34.77           | -38.77      |
|           |        | 707.5           | -27.30          | 1 / 14         | 25.61                 | <b>-3.84</b> | 0.413    | 34.77           | -38.61      |
|           |        | 714.5           | -27.30          | 1 / 7          | 25.52                 | -3.93        | 0.405    | 34.77           | -38.70      |
|           | 16-QAM | 707.5           | -27.30          | 1 / 14         | 24.67                 | -4.78        | 0.333    | 34.77           | -39.55      |
| 5 MHz     | QPSK   | 701.5           | -27.30          | 1 / 12         | 25.60                 | -3.85        | 0.412    | 34.77           | -38.62      |
|           |        | 707.5           | -27.30          | 1 / 24         | 25.46                 | -3.99        | 0.399    | 34.77           | -38.76      |
|           |        | 713.5           | -27.30          | 1 / 12         | 25.70                 | <b>-3.75</b> | 0.422    | 34.77           | -38.52      |
|           | 16-QAM | 701.5           | -27.30          | 1 / 0          | 24.60                 | -4.85        | 0.327    | 34.77           | -39.62      |
| 10 MHz    | QPSK   | 704.0           | -27.30          | 1 / 0          | 25.67                 | <b>-3.78</b> | 0.419    | 34.77           | -38.55      |
|           |        | 707.5           | -27.30          | 1 / 0          | 25.40                 | -4.05        | 0.394    | 34.77           | -38.82      |
|           |        | 711.0           | -27.30          | 1 / 25         | 25.60                 | -3.85        | 0.412    | 34.77           | -38.62      |
|           | 16-QAM | 704.0           | -27.30          | 1 / 25         | 24.73                 | -4.72        | 0.337    | 34.77           | -39.49      |

Table 7-6. Antenna BCM ERP Data LTE Band 12

|   |  |                            |  |  |  |                                   |
|---|--|----------------------------|--|--|--|-----------------------------------|
| FCC ID: BCG-A3337                       | element                                | PART 27 MEASUREMENT REPORT |  |  |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2503270033-03.BCG | Test Dates:<br>01/31/2025 - 07/21/2025 | EUT Type:<br>Watch         |  |  |  |                                   |

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## LTE Band 17

| Bandwidth | Mod.   | Frequency [MHz] | Ant. Gain [dBi] | RB Size/Offset | Conducted Power [dBm] | ERP [dBm]    | ERP [mW] | ERP Limit [dBm] | Margin [dB] |
|-----------|--------|-----------------|-----------------|----------------|-----------------------|--------------|----------|-----------------|-------------|
| 5 MHz     | QPSK   | 706.5           | -27.30          | 1 / 0          | 25.21                 | <b>-4.24</b> | 0.377    | 34.77           | -39.01      |
|           |        | 710.0           | -27.30          | 1 / 12         | 25.26                 | -4.19        | 0.381    | 34.77           | -38.96      |
|           |        | 713.5           | -27.30          | 1 / 12         | 25.35                 | <b>-4.10</b> | 0.389    | 34.77           | -38.87      |
| 10 MHz    | 16-QAM | 710.0           | -27.30          | 1 / 12         | 24.65                 | -4.80        | 0.331    | 34.77           | -39.57      |
|           | QPSK   | 709.0           | -27.30          | 1 / 0          | 25.15                 | -4.30        | 0.372    | 34.77           | -39.07      |
|           |        | 710.0           | -27.30          | 1 / 49         | 25.16                 | <b>-4.29</b> | 0.372    | 34.77           | -39.06      |
|           |        | 711.0           | -27.30          | 1 / 0          | 25.11                 | -4.34        | 0.368    | 34.77           | -39.11      |
|           | 16-QAM | 710.0           | -27.30          | 1 / 49         | 24.77                 | -4.68        | 0.340    | 34.77           | -39.45      |

Table 7-7. Antenna BCM ERP Data LTE Band 17

## LTE Band 13

| Bandwidth | Mod.   | Frequency [MHz] | Ant. Gain [dBi] | RB Size/Offset | Conducted Power [dBm] | ERP [dBm]    | ERP [mW] | ERP Limit [dBm] | Margin [dB] |
|-----------|--------|-----------------|-----------------|----------------|-----------------------|--------------|----------|-----------------|-------------|
| 5 MHz     | QPSK   | 779.5           | -27.20          | 1 / 0          | 25.25                 | <b>-4.10</b> | 0.389    | 34.77           | -38.87      |
|           |        | 782.0           | -27.20          | 1 / 24         | 25.45                 | <b>-3.90</b> | 0.407    | 34.77           | -38.67      |
|           |        | 784.5           | -27.20          | 1 / 12         | 25.37                 | -3.98        | 0.400    | 34.77           | -38.75      |
| 10 MHz    | 16-QAM | 784.5           | -27.20          | 1 / 24         | 24.73                 | -4.62        | 0.345    | 34.77           | -39.39      |
|           | QPSK   | 782.0           | -27.20          | 1 / 25         | 25.36                 | <b>-3.99</b> | 0.399    | 34.77           | -38.76      |
|           | 16-QAM | 782.0           | -27.20          | 1 / 49         | 24.69                 | -4.66        | 0.342    | 34.77           | -39.43      |

Table 7-8. Antenna BCM ERP Data LTE Band 13

|   |   |                            |  |  |  |                                   |
|---|---|----------------------------|--|--|--|-----------------------------------|
| FCC ID: BCG-A3337                       |  element | PART 27 MEASUREMENT REPORT |  |  |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2503270033-03.BCG | Test Dates:<br>01/31/2025 - 07/21/2025  | EUT Type:<br>Watch         |  |  |  |                                   |

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**NR Band n71**

| Bandwidth | Mod.     | Frequency [MHz] | Ant. Gain [dBi] | RB Size/Offset | Conducted Power [dBm] | ERP [dBm]    | ERP [mW] | ERP Limit [dBm] | Margin [dB] |
|-----------|----------|-----------------|-----------------|----------------|-----------------------|--------------|----------|-----------------|-------------|
| 5 MHz     | π/2 BPSK | 665.5           | -27.50          | 1 / 0          | 25.70                 | <b>-3.95</b> | 0.403    | 34.77           | -38.72      |
|           |          | 680.5           | -27.50          | 1 / 12         | 25.51                 | -4.14        | 0.385    | 34.77           | -38.91      |
|           |          | 695.5           | -27.50          | 1 / 12         | 25.59                 | -4.06        | 0.393    | 34.77           | -38.83      |
|           | QPSK     | 665.5           | -27.50          | 1 / 24         | 25.57                 | -4.08        | 0.391    | 34.77           | -38.85      |
|           |          | 680.5           | -27.50          | 1 / 0          | 25.62                 | -4.03        | 0.395    | 34.77           | -38.80      |
|           |          | 695.5           | -27.50          | 1 / 0          | 25.67                 | <b>-3.98</b> | 0.400    | 34.77           | -38.75      |
|           | 16-QAM   | 680.5           | -27.50          | 1 / 24         | 24.77                 | -4.88        | 0.325    | 34.77           | -39.65      |
|           |          | 695.5           | -27.50          | 1 / 0          | 23.76                 | -5.89        | 0.258    | 34.77           | -40.66      |
| 10 MHz    | π/2 BPSK | 668.0           | -27.50          | 1 / 25         | 25.39                 | -4.26        | 0.375    | 34.77           | -39.03      |
|           |          | 680.5           | -27.50          | 1 / 49         | 25.70                 | <b>-3.95</b> | 0.403    | 34.77           | -38.72      |
|           |          | 693.0           | -27.50          | 1 / 25         | 25.51                 | -4.14        | 0.385    | 34.77           | -38.91      |
|           | QPSK     | 668.0           | -27.50          | 1 / 0          | 25.54                 | -4.11        | 0.388    | 34.77           | -38.88      |
|           |          | 680.5           | -27.50          | 1 / 0          | 25.63                 | -4.02        | 0.396    | 34.77           | -38.79      |
|           |          | 693.0           | -27.50          | 1 / 25         | 25.70                 | <b>-3.95</b> | 0.403    | 34.77           | -38.72      |
|           | 16-QAM   | 693.0           | -27.50          | 1 / 25         | 24.72                 | -4.93        | 0.321    | 34.77           | -39.70      |
|           |          | 680.5           | -27.50          | 1 / 0          | 23.72                 | -5.93        | 0.255    | 34.77           | -40.70      |
| 15 MHz    | π/2 BPSK | 670.5           | -27.50          | 1 / 0          | 25.70                 | <b>-3.95</b> | 0.403    | 34.77           | -38.72      |
|           |          | 680.5           | -27.50          | 1 / 0          | 25.70                 | <b>-3.95</b> | 0.403    | 34.77           | -38.72      |
|           |          | 690.5           | -27.50          | 1 / 0          | 25.50                 | -4.15        | 0.385    | 34.77           | -38.92      |
|           | QPSK     | 670.5           | -27.50          | 1 / 0          | 25.70                 | <b>-3.95</b> | 0.403    | 34.77           | -38.72      |
|           |          | 680.5           | -27.50          | 1 / 37         | 25.61                 | -4.04        | 0.394    | 34.77           | -38.81      |
|           |          | 690.5           | -27.50          | 1 / 74         | 25.66                 | -3.99        | 0.399    | 34.77           | -38.76      |
|           | 16-QAM   | 690.5           | -27.50          | 1 / 0          | 24.69                 | -4.96        | 0.319    | 34.77           | -39.73      |
|           |          | 690.5           | -27.50          | 1 / 74         | 23.66                 | -5.99        | 0.252    | 34.77           | -40.76      |
| 20 MHz    | π/2 BPSK | 673.0           | -27.50          | 1 / 50         | 25.49                 | -4.16        | 0.384    | 34.77           | -38.93      |
|           |          | 680.5           | -27.50          | 1 / 50         | 25.67                 | -3.98        | 0.400    | 34.77           | -38.75      |
|           |          | 688.0           | -27.50          | 1 / 0          | 25.30                 | -4.35        | 0.367    | 34.77           | -39.12      |
|           | QPSK     | 673.0           | -27.50          | 1 / 0          | 25.70                 | <b>-3.95</b> | 0.403    | 34.77           | -38.72      |
|           |          | 680.5           | -27.50          | 1 / 50         | 25.64                 | -4.01        | 0.397    | 34.77           | -38.78      |
|           |          | 688.0           | -27.50          | 1 / 0          | 25.47                 | -4.18        | 0.382    | 34.77           | -38.95      |
|           | 16-QAM   | 688.0           | -27.50          | 1 / 50         | 24.69                 | -4.96        | 0.319    | 34.77           | -39.73      |
|           |          | 688.0           | -27.50          | 1 / 99         | 23.68                 | -5.97        | 0.253    | 34.77           | -40.74      |

**Table 7-9. Antenna BCM EIRP Data NR Band n71**

|   |  |                            |  |  |                                   |
|---|--|----------------------------|--|--|-----------------------------------|
| FCC ID: BCG-A3337                       | element                                | PART 27 MEASUREMENT REPORT |  |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2503270033-03.BCG | Test Dates:<br>01/31/2025 - 07/21/2025 | EUT Type:<br>Watch         |  |  |                                   |

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**NR Band n12**

| Bandwidth | Mod.     | Frequency [MHz] | Ant. Gain [dBi] | RB Size/Offset | Conducted Power [dBm] | ERP [dBm]    | ERP [mW] | ERP Limit [dBm] | Margin [dB] |
|-----------|----------|-----------------|-----------------|----------------|-----------------------|--------------|----------|-----------------|-------------|
| 5 MHz     | π/2 BPSK | 701.5           | -27.30          | 1 / 23         | 25.57                 | <b>-3.88</b> | 0.409    | 34.77           | -38.65      |
|           |          | 707.5           | -27.30          | 1 / 23         | 25.52                 | -3.93        | 0.405    | 34.77           | -38.70      |
|           |          | 713.5           | -27.30          | 1 / 12         | 25.52                 | -3.93        | 0.405    | 34.77           | -38.70      |
|           | QPSK     | 701.5           | -27.30          | 1 / 1          | 25.60                 | <b>-3.85</b> | 0.412    | 34.77           | -38.62      |
|           |          | 707.5           | -27.30          | 1 / 23         | 25.48                 | -3.97        | 0.401    | 34.77           | -38.74      |
|           |          | 713.5           | -27.30          | 1 / 23         | 25.57                 | -3.88        | 0.409    | 34.77           | -38.65      |
|           | 16-QAM   | 713.5           | -27.30          | 1 / 1          | 24.60                 | <b>-4.85</b> | 0.327    | 34.77           | -39.62      |
|           | 64-QAM   | 713.5           | -27.30          | 1 / 23         | 23.58                 | <b>-5.87</b> | 0.259    | 34.77           | -40.64      |
|           | π/2 BPSK | 704.0           | -27.30          | 1 / 50         | 25.60                 | <b>-3.85</b> | 0.412    | 34.77           | -38.62      |
|           |          | 707.5           | -27.30          | 1 / 1          | 25.50                 | -3.95        | 0.403    | 34.77           | -38.72      |
|           |          | 711.0           | -27.30          | 1 / 50         | 25.49                 | -3.96        | 0.402    | 34.77           | -38.73      |
| 10 MHz    | QPSK     | 704.0           | -27.30          | 1 / 50         | 25.55                 | -3.90        | 0.407    | 34.77           | -38.67      |
|           |          | 707.5           | -27.30          | 1 / 1          | 25.46                 | -3.99        | 0.399    | 34.77           | -38.76      |
|           |          | 711.0           | -27.30          | 1 / 26         | 25.54                 | -3.91        | 0.406    | 34.77           | -38.68      |
|           | 16-QAM   | 707.5           | -27.30          | 1 / 26         | 24.51                 | <b>-4.94</b> | 0.321    | 34.77           | -39.71      |
|           | 64-QAM   | 704.0           | -27.30          | 1 / 26         | 23.55                 | <b>-5.90</b> | 0.257    | 34.77           | -40.67      |
|           | π/2 BPSK | 706.5           | -27.30          | 1 / 77         | 25.30                 | <b>-4.15</b> | 0.385    | 34.77           | -38.92      |
|           |          | 707.5           | -27.30          | 1 / 1          | 25.59                 | -3.86        | 0.411    | 34.77           | -38.63      |
|           |          | 708.5           | -27.30          | 1 / 39         | 25.55                 | -3.90        | 0.407    | 34.77           | -38.67      |
| 15 MHz    | QPSK     | 706.5           | -27.30          | 1 / 39         | 25.60                 | <b>-3.85</b> | 0.412    | 34.77           | -38.62      |
|           |          | 707.5           | -27.30          | 1 / 39         | 25.38                 | -4.07        | 0.392    | 34.77           | -38.84      |
|           |          | 708.5           | -27.30          | 1 / 1          | 25.37                 | -4.08        | 0.391    | 34.77           | -38.85      |
|           | 16-QAM   | 708.5           | -27.30          | 1 / 1          | 24.57                 | <b>-4.88</b> | 0.325    | 34.77           | -39.65      |
|           | 64-QAM   | 707.5           | -27.30          | 1 / 1          | 23.50                 | <b>-5.95</b> | 0.254    | 34.77           | -40.72      |

**Table 7-10. Antenna BCM ERP Data NR Band n12**

|   |   |                            |  |  |  |                                   |
|---|---|----------------------------|--|--|--|-----------------------------------|
| FCC ID: BCG-A3337                       |  element | PART 27 MEASUREMENT REPORT |  |  |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2503270033-03.BCG | Test Dates:<br>01/31/2025 - 07/21/2025  | EUT Type:<br>Watch         |  |  |  |                                   |

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## 7.7 Radiated Spurious Emissions

§2.1053, §27.53(f)

### 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 broadband hybrid antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed while the EUT is operating at maximum power and at the appropriate frequencies.

### Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.8

ANSI C63.26 2015, TIA-603-E-2016 – Section 2.2.12

### 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

|   |   |                            |  |                                   |
|---|---|----------------------------|--|-----------------------------------|
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## Test Setup

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

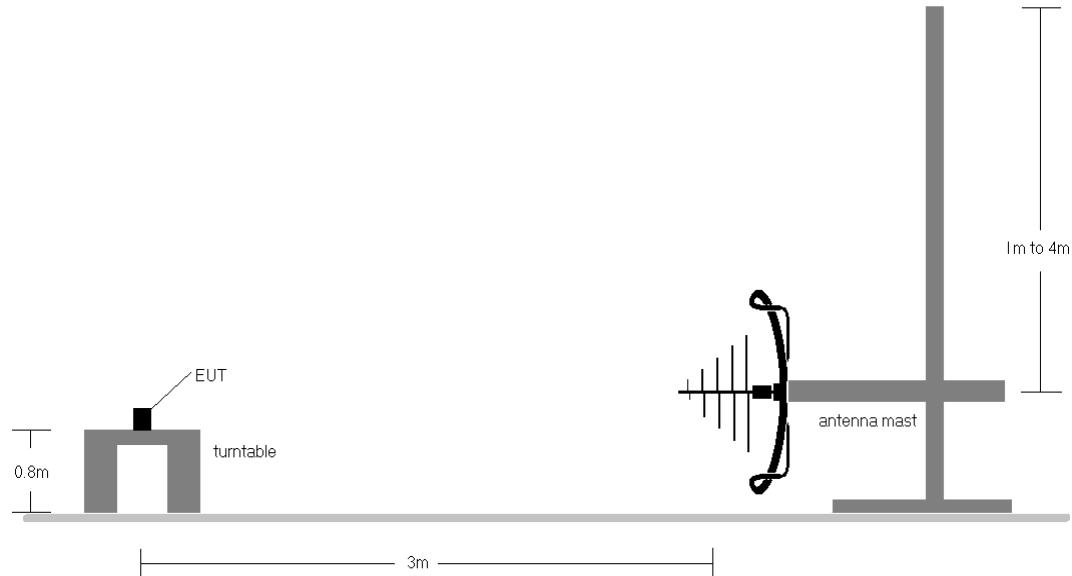


Figure 7-11. Test Instrument & Measurement Setup < 1GHz

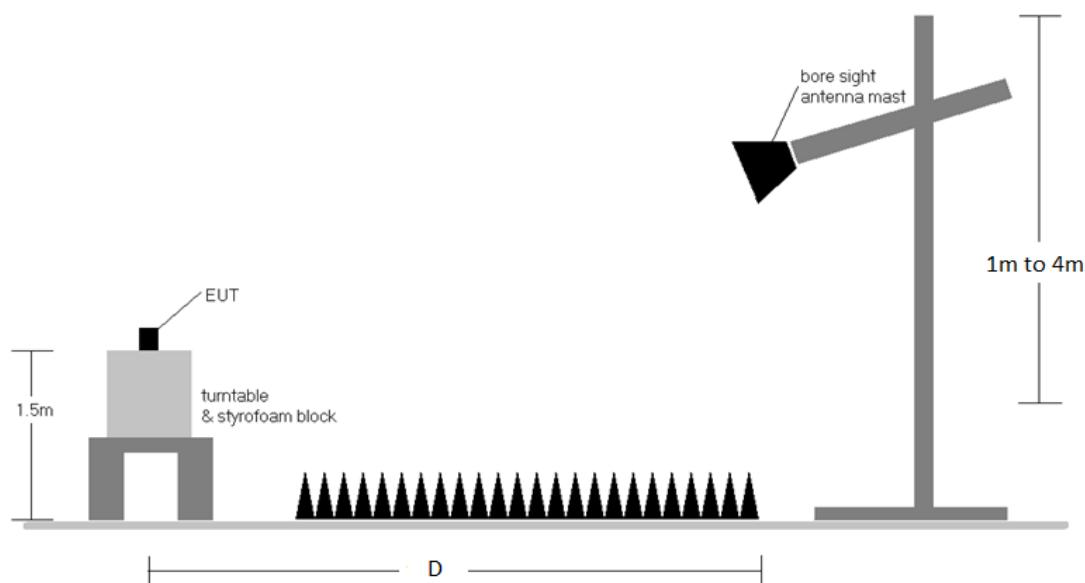


Figure 7-12. Test Instrument & Measurement Setup > 1GHz

|   |   |                            |  |                                   |
|---|---|----------------------------|--|-----------------------------------|
| FCC ID: BCG-A3337                       |  element | PART 27 MEASUREMENT REPORT |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2503270033-03.BCG | Test Dates:<br>01/31/2025 - 07/21/2025  | EUT Type:<br>Watch         |  | Page 177 of 202                   |

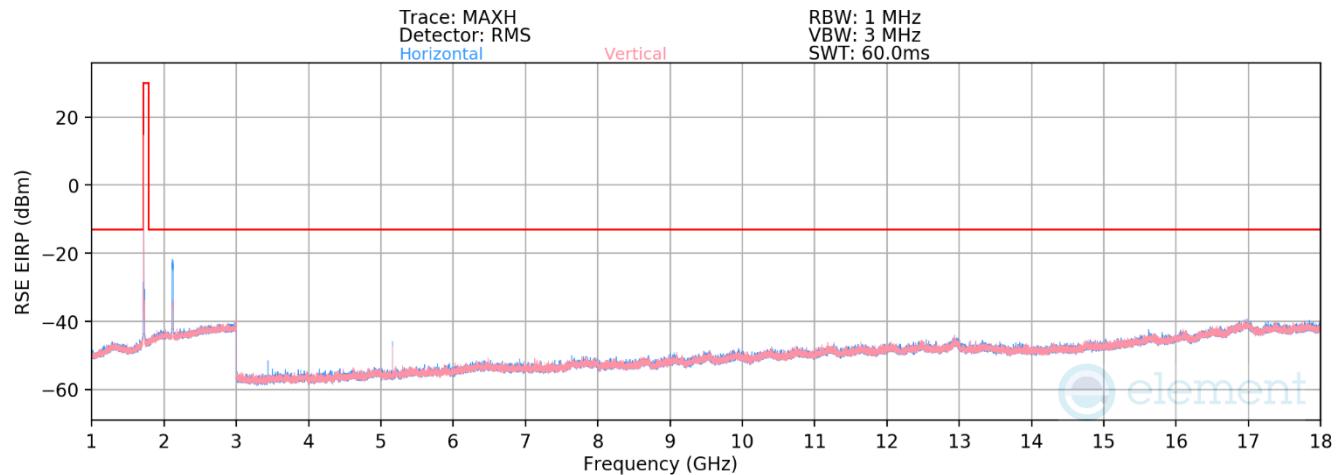
## Test Notes

1. Field strengths are calculated using the Measurement quantity conversions in KDB 971168 D01 v03r01 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. 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.
3. This unit was tested with its standard battery.
4. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
5. D is the measurement test distance and emissions 1-18GHz were measured at a 3 meters test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
6. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
7. 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.

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|---|--|--------------------|-----------------------------------|
| Test Report S/N:<br>1C2503270033-03.BCG | Test Dates:<br>01/31/2025 - 07/21/2025 | EUT Type:<br>Watch | Page 178 of 202                   |

### 7.7.1 Antenna FCM – Radiated Spurious Emission Measurement

#### LTE Band 66/4



Plot 7-282. Antenna FCM Radiated Spurious Emission above 1GHz (LTE Band 66/4)

|   |  |                    |  |                                   |
|---|--|--------------------|--|-----------------------------------|
| FCC ID: BCG-A3337                       | PART 27 MEASUREMENT REPORT             |                    |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2503270033-03.BCG | Test Dates:<br>01/31/2025 - 07/21/2025 | EUT Type:<br>Watch |  | Page 179 of 202                   |

|                  |        |
|------------------|--------|
| 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 [dB $\mu$ V/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------------|------------------------------------|-------------|-------------|
| 3440.0          | V               | -                   | -                          | -79.09               | 5.29        | 33.20                         | -62.06                             | -13.00      | -49.06      |
| 5160.0          | V               | 271                 | 171                        | -70.95               | 8.23        | 44.28                         | -50.98                             | -13.00      | -37.98      |
| 6880.0          | V               | -                   | -                          | -82.11               | 11.20       | 36.10                         | -59.16                             | -13.00      | -46.16      |
| 8600.0          | V               | -                   | -                          | -81.36               | 11.53       | 37.17                         | -58.08                             | -13.00      | -45.08      |
| 10320.0         | V               | -                   | -                          | -81.83               | 14.66       | 39.83                         | -55.43                             | -13.00      | -42.43      |

**Table 7-11. Antenna FCM 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 [dB $\mu$ V/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------------|------------------------------------|-------------|-------------|
| 3490.0          | H               | 100                 | 188                        | -74.61               | 5.21        | 37.60                         | -57.66                             | -13.00      | -44.66      |
| 5235.0          | H               | 112                 | 127                        | -71.66               | 8.59        | 43.93                         | -51.33                             | -13.00      | -38.33      |
| 6980.0          | V               | -                   | -                          | -82.70               | 11.54       | 35.85                         | -59.41                             | -13.00      | -46.41      |
| 8725.0          | V               | -                   | -                          | -81.50               | 11.89       | 37.40                         | -57.86                             | -13.00      | -44.86      |
| 10470.0         | V               | -                   | -                          | -82.36               | 14.93       | 39.57                         | -55.69                             | -13.00      | -42.69      |

**Table 7-12. Antenna FCM 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 [dB $\mu$ V/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------------|------------------------------------|-------------|-------------|
| 3540.0          | H               | -                   | -                          | -79.21               | 5.23        | 33.02                         | -62.24                             | -13.00      | -49.24      |
| 5310.0          | V               | 291                 | 187                        | -79.54               | 8.69        | 36.15                         | -59.11                             | -13.00      | -46.11      |
| 7080.0          | H               | -                   | -                          | -82.07               | 11.29       | 36.23                         | -59.03                             | -13.00      | -46.03      |
| 8850.0          | H               | -                   | -                          | -81.91               | 11.74       | 36.83                         | -58.43                             | -13.00      | -45.43      |
| 10620.0         | V               | -                   | -                          | -83.11               | 15.13       | 39.02                         | -56.24                             | -13.00      | -43.24      |

**Table 7-13. Antenna FCM Radiated Spurious Data (LTE Band 66/4 – High Channel)**

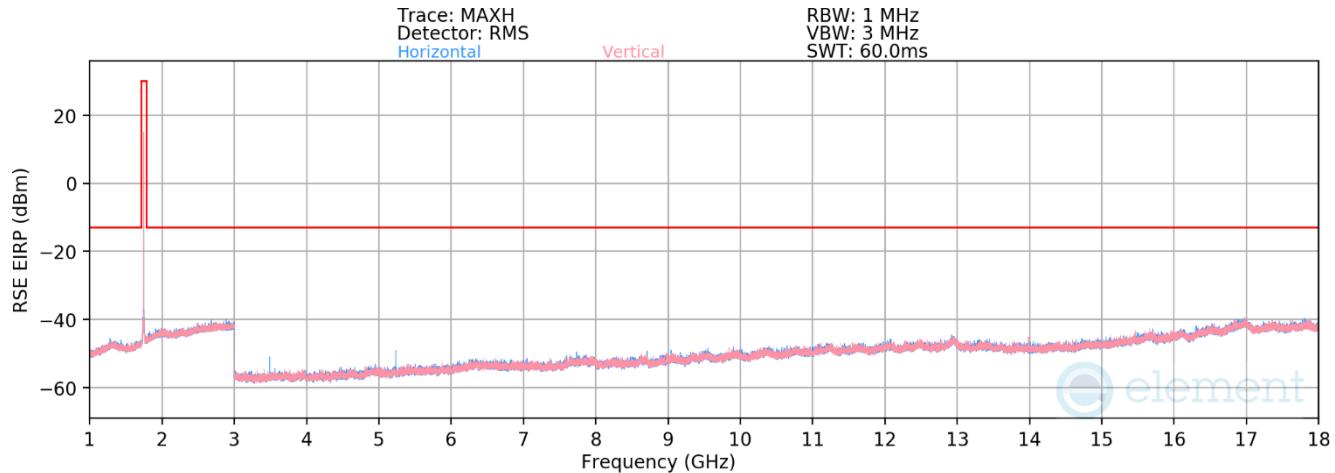
|   |   |                            |  |  |  |  |                                   |
|---|---|----------------------------|--|--|--|--|-----------------------------------|
| FCC ID: BCG-A3337                       |  element | PART 27 MEASUREMENT REPORT |  |  |  |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2503270033-03.BCG | Test Dates:<br>01/31/2025 - 07/21/2025  | EUT Type:<br>Watch         |  |  |  |  |                                   |

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## NR Band n66



**Plot 7-283. Antenna FCM Radiated Spurious Emission above 1GHz (NR Band n66)**

|   |  |                    |  |                                   |
|---|--|--------------------|--|-----------------------------------|
| FCC ID: BCG-A3337                       | PART 27 MEASUREMENT REPORT             |                    |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2503270033-03.BCG | Test Dates:<br>01/31/2025 - 07/21/2025 | EUT Type:<br>Watch |  | Page 181 of 202                   |

|                  |        |
|------------------|--------|
| 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 [dB $\mu$ V/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------------|------------------------------------|-------------|-------------|
| 3440.0          | H               | 100                 | 183                        | -74.84               | 5.22        | 37.39                         | -57.87                             | -13.00      | -44.87      |
| 5160.0          | H               | 247                 | 146                        | -79.14               | 8.23        | 36.08                         | -59.17                             | -13.00      | -46.17      |
| 6880.0          | V               | -                   | -                          | -81.59               | 11.06       | 36.47                         | -58.79                             | -13.00      | -45.79      |
| 8600.0          | V               | -                   | -                          | -80.95               | 11.17       | 37.22                         | -58.04                             | -13.00      | -45.04      |
| 10320.0         | V               | -                   | -                          | -81.73               | 14.66       | 39.93                         | -55.33                             | -13.00      | -42.33      |

**Table 7-14. Antenna FCM Radiated Spurious Data (NR Band n66 – 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 [dB $\mu$ V/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------------|------------------------------------|-------------|-------------|
| 3490.0          | H               | 105                 | 188                        | -74.11               | 5.21        | 38.10                         | -57.16                             | -13.00      | -44.16      |
| 5235.0          | H               | 105                 | 226                        | -76.58               | 8.59        | 39.01                         | -56.25                             | -13.00      | -43.25      |
| 6980.0          | V               | -                   | -                          | -82.70               | 11.77       | 36.06                         | -59.20                             | -13.00      | -46.20      |
| 8725.0          | V               | -                   | -                          | -81.50               | 11.80       | 37.31                         | -57.95                             | -13.00      | -44.95      |
| 10470.0         | V               | -                   | -                          | -82.73               | 15.08       | 39.34                         | -55.91                             | -13.00      | -42.91      |

**Table 7-15. Antenna FCM Radiated Spurious Data (NR Band n66 – 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 [dB $\mu$ V/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------------|------------------------------------|-------------|-------------|
| 3540.0          | V               | -                   | -                          | -79.26               | 5.22        | 32.97                         | -62.29                             | -13.00      | -49.29      |
| 5310.0          | H               | 264                 | 219                        | -80.14               | 8.69        | 35.54                         | -59.71                             | -13.00      | -46.71      |
| 7080.0          | V               | -                   | -                          | -82.09               | 11.29       | 36.20                         | -59.06                             | -13.00      | -46.06      |
| 8850.0          | V               | -                   | -                          | -81.71               | 11.73       | 37.01                         | -58.24                             | -13.00      | -45.24      |
| 10620.0         | V               | -                   | -                          | -82.95               | 15.13       | 39.18                         | -56.08                             | -13.00      | -43.08      |

**Table 7-16. Antenna FCM Radiated Spurious Data (NR Band n66 – High Channel)**

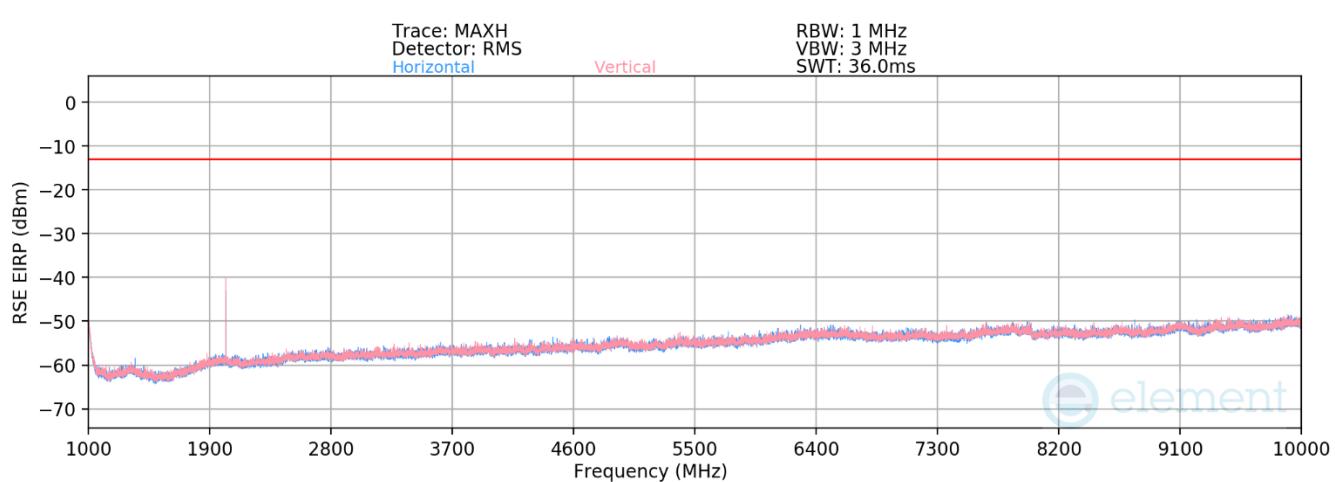
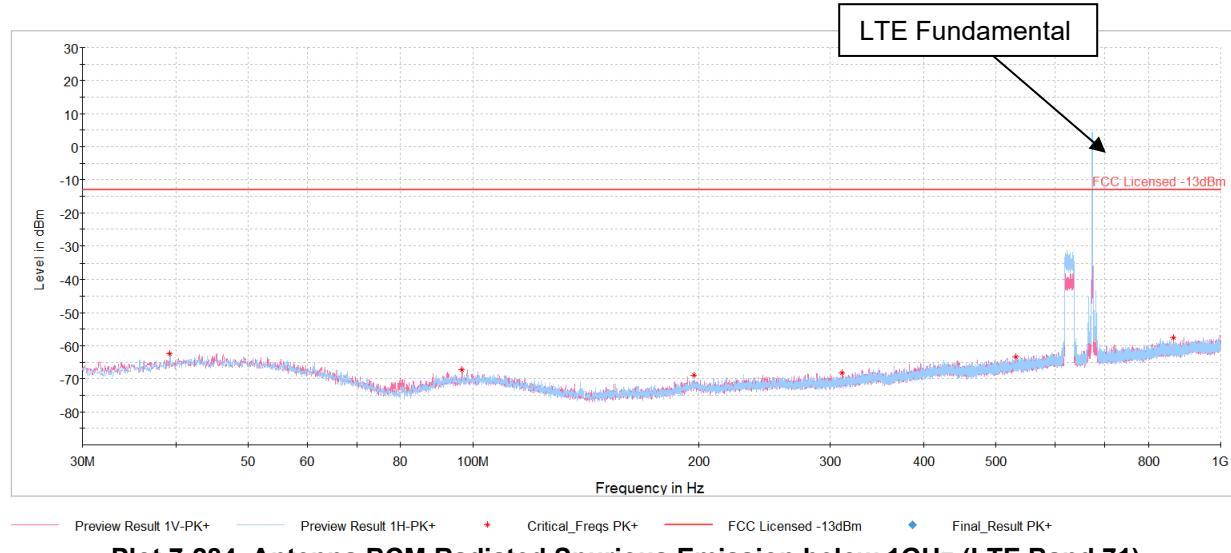
|   |   |                            |  |  |  |  |                                   |
|---|---|----------------------------|--|--|--|--|-----------------------------------|
| FCC ID: BCG-A3337                       |  element | PART 27 MEASUREMENT REPORT |  |  |  |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2503270033-03.BCG | Test Dates:<br>01/31/2025 - 07/21/2025  | EUT Type:<br>Watch         |  |  |  |  |                                   |

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## 7.7.2 Antenna BCM – Radiated Spurious Emission Measurement

### LTE Band 71



|   |  |                    |  |                                   |
|---|--|--------------------|--|-----------------------------------|
| FCC ID: BCG-A3337                       | PART 27 MEASUREMENT REPORT             |                    |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2503270033-03.BCG | Test Dates:<br>01/31/2025 - 07/21/2025 | EUT Type:<br>Watch |  | Page 183 of 202                   |

|                  |        |
|------------------|--------|
| 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 [dB $\mu$ V/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------------|------------------------------------|-------------|-------------|
| 1346.0          | H               | 131                 | 226                        | -75.20               | -1.07       | 30.73                         | -64.53                             | -13.00      | -51.53      |
| 2019.0          | V               | 177                 | 331                        | -60.23               | 1.63        | 48.40                         | -46.86                             | -13.00      | -33.86      |
| 2692.0          | V               | -                   | -                          | -78.63               | 3.20        | 31.57                         | -63.69                             | -13.00      | -50.69      |
| 3365.0          | V               | -                   | -                          | -79.03               | 4.50        | 32.47                         | -62.79                             | -13.00      | -49.79      |
| 4038.0          | V               | -                   | -                          | -79.84               | 6.11        | 33.27                         | -61.99                             | -13.00      | -48.99      |

**Table 7-17. Antenna BCM 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 [dB $\mu$ V/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------------|------------------------------------|-------------|-------------|
| 1361.0          | H               | 217                 | 234                        | -75.30               | -1.25       | 30.45                         | -64.81                             | -13.00      | -51.81      |
| 2041.5          | H               | 150                 | 275                        | -68.34               | 1.83        | 40.49                         | -54.77                             | -13.00      | -41.77      |
| 2722.0          | V               | -                   | -                          | -78.50               | 3.17        | 31.66                         | -63.59                             | -13.00      | -50.59      |
| 3402.5          | H               | -                   | -                          | -78.93               | 4.31        | 32.38                         | -62.88                             | -13.00      | -49.88      |
| 4083.0          | V               | -                   | -                          | -80.11               | 6.47        | 33.37                         | -61.89                             | -13.00      | -48.89      |

**Table 7-18. Antenna BCM Radiated Spurious Data (LTE Band 71 – Mid Channel)**

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

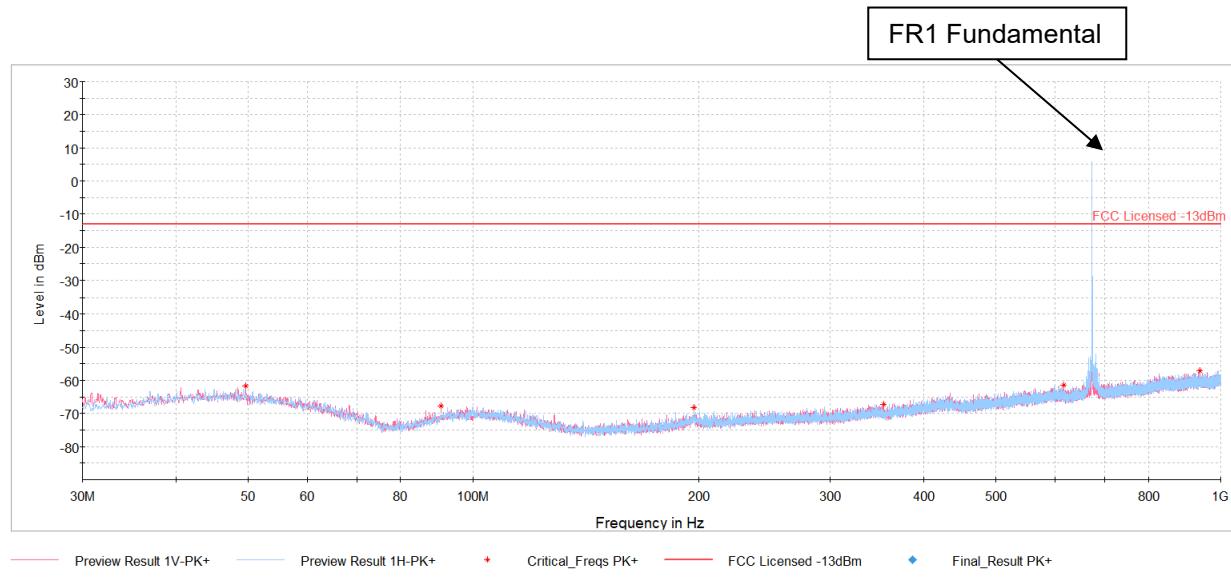
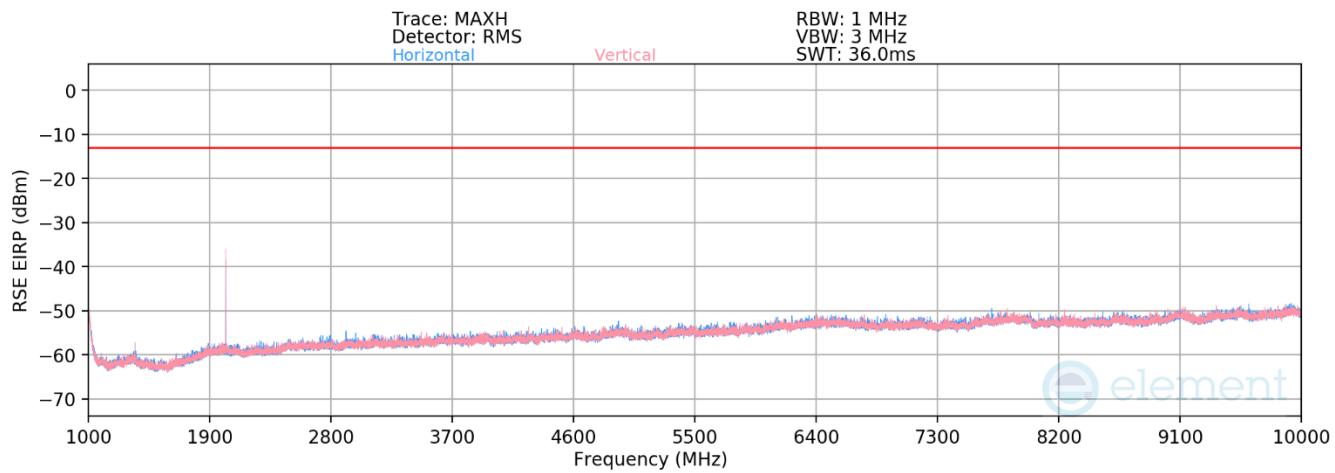
| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dB $\mu$ V/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------------|------------------------------------|-------------|-------------|
| 1376.0          | H               | 165                 | 227                        | -76.24               | -1.23       | 29.53                         | -65.72                             | -13.00      | -52.72      |
| 2064.0          | H               | 268                 | 277                        | -68.54               | 1.65        | 40.11                         | -55.15                             | -13.00      | -42.15      |
| 2752.0          | H               | -                   | -                          | -78.15               | 3.17        | 32.01                         | -63.25                             | -13.00      | -50.25      |
| 3440.0          | V               | -                   | -                          | -79.07               | 4.55        | 32.48                         | -62.78                             | -13.00      | -49.78      |
| 4128.0          | V               | -                   | -                          | -79.90               | 6.24        | 33.33                         | -61.93                             | -13.00      | -48.93      |

**Table 7-19. Antenna BCM Radiated Spurious Data (LTE Band 71 – High Channel)**

|   |   |                            |  |  |  |  |                                   |
|---|---|----------------------------|--|--|--|--|-----------------------------------|
| FCC ID: BCG-A3337                       |  element | PART 27 MEASUREMENT REPORT |  |  |  |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2503270033-03.BCG | Test Dates:<br>01/31/2025 - 07/21/2025  | EUT Type:<br>Watch         |  |  |  |  |                                   |

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**NR Band n71**

**Plot 7-286. Antenna BCM Radiated Spurious Emission below 1GHz (NR Band n71)**

**Plot 7-287. Antenna BCM Radiated Spurious Emission above 1GHz (NR Band n71)**

|   |  |                    |  |                                   |
|---|--|--------------------|--|-----------------------------------|
| FCC ID: BCG-A3337                       | PART 27 MEASUREMENT REPORT             |                    |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2503270033-03.BCG | Test Dates:<br>01/31/2025 - 07/21/2025 | EUT Type:<br>Watch |  | Page 185 of 202                   |

|                  |        |
|------------------|--------|
| 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 [dB $\mu$ V/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------------|------------------------------------|-------------|-------------|
| 1346.0          | V               | 226                 | 350                        | -75.73               | -1.07       | 30.20                         | -65.05                             | -13.00      | -52.05      |
| 2019.0          | V               | 171                 | 6                          | -55.71               | 1.63        | 52.91                         | -42.35                             | -13.00      | -29.35      |
| 2692.0          | V               | -                   | -                          | -78.67               | 3.27        | 31.60                         | -63.65                             | -13.00      | -50.65      |
| 3365.0          | H               | -                   | -                          | -79.12               | 4.50        | 32.38                         | -62.88                             | -13.00      | -49.88      |
| 4038.0          | V               | -                   | -                          | -79.46               | 5.89        | 33.44                         | -61.82                             | -13.00      | -48.82      |

**Table 7-20. Antenna BCM 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 [dB $\mu$ V/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------------|------------------------------------|-------------|-------------|
| 1361.0          | V               | 194                 | 347                        | -73.29               | -1.25       | 32.46                         | -62.79                             | -13.00      | -49.79      |
| 2041.5          | V               | 143                 | 10                         | -60.51               | 1.83        | 48.32                         | -46.93                             | -13.00      | -33.93      |
| 2722.0          | H               | -                   | -                          | -78.41               | 3.06        | 31.65                         | -63.61                             | -13.00      | -50.61      |
| 3402.5          | H               | -                   | -                          | -79.24               | 4.57        | 32.32                         | -62.93                             | -13.00      | -49.93      |
| 4083.0          | V               | -                   | -                          | -79.71               | 6.11        | 33.40                         | -61.86                             | -13.00      | -48.86      |

**Table 7-21. Antenna BCM 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 [dB $\mu$ V/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------------|------------------------------------|-------------|-------------|
| 1376.0          | V               | 127                 | 208                        | -76.13               | -1.23       | 29.64                         | -65.62                             | -13.00      | -52.62      |
| 2064.0          | V               | 100                 | 357                        | -55.75               | 1.65        | 52.91                         | -42.35                             | -13.00      | -29.35      |
| 2752.0          | H               | -                   | -                          | -78.10               | 3.35        | 32.25                         | -63.01                             | -13.00      | -50.01      |
| 3440.0          | H               | -                   | -                          | -79.36               | 4.57        | 32.21                         | -63.05                             | -13.00      | -50.05      |
| 4128.0          | V               | -                   | -                          | -80.34               | 6.53        | 33.19                         | -62.07                             | -13.00      | -49.07      |

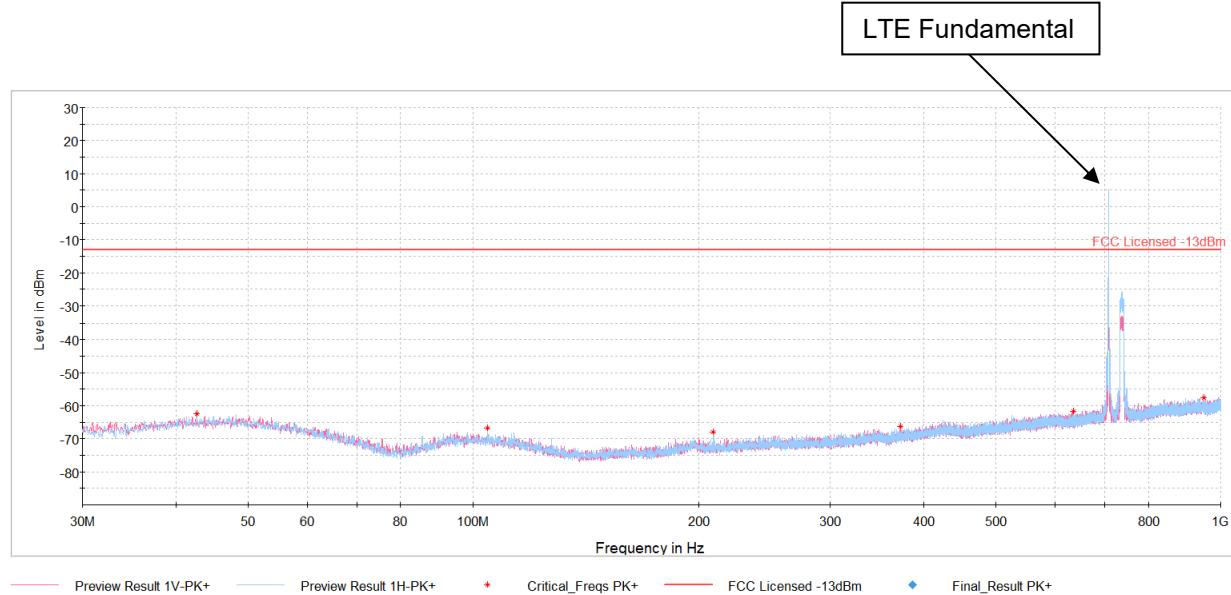
**Table 7-22. Antenna BCM Radiated Spurious Data (NR Band n71 – High Channel)**

|   |   |                            |  |  |  |  |                                   |
|---|---|----------------------------|--|--|--|--|-----------------------------------|
| FCC ID: BCG-A3337                       |  element | PART 27 MEASUREMENT REPORT |  |  |  |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2503270033-03.BCG | Test Dates:<br>01/31/2025 - 07/21/2025  | EUT Type:<br>Watch         |  |  |  |  |                                   |

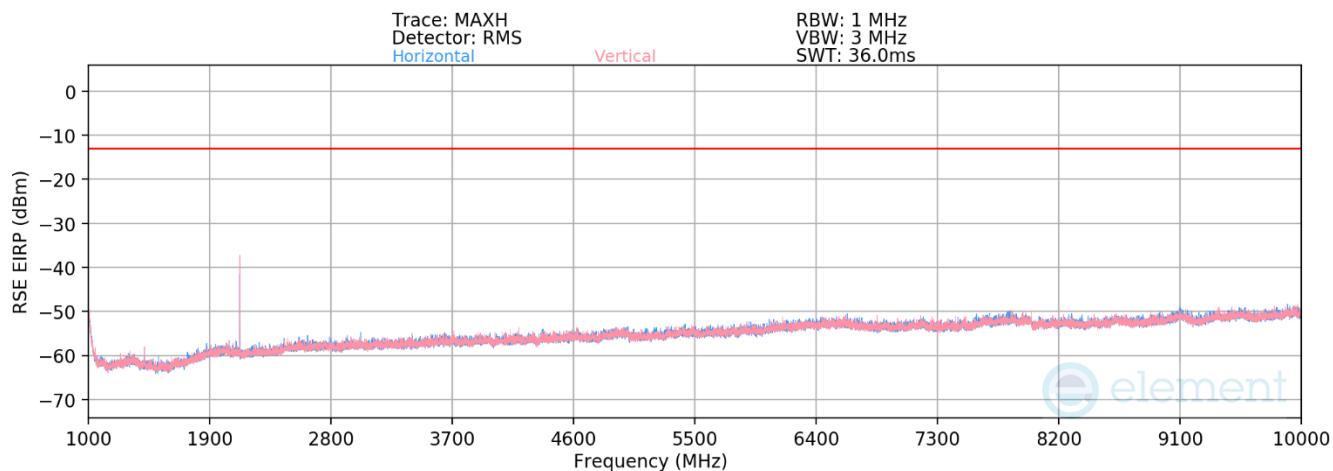
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## LTE Band 12/17



Plot 7-288. Antenna BCM Radiated Spurious Emission below 1GHz (LTE Band 12/17)



Plot 7-289. Antenna BCM Radiated Spurious Emission above 1GHz (LTE Band 12/17)

|   |   |                            |                 |                                   |
|---|---|----------------------------|-----------------|-----------------------------------|
| FCC ID: BCG-A3337                       |  element | PART 27 MEASUREMENT REPORT |                 | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2503270033-03.BCG | Test Dates:<br>01/31/2025 - 07/21/2025  | EUT Type:<br>Watch         | Page 187 of 202 |                                   |

|                  |        |
|------------------|--------|
| 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 [dB $\mu$ V/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------------|------------------------------------|-------------|-------------|
| 1408.0          | V               | 121                 | 166                        | -75.19               | -1.98       | 29.83                         | -65.43                             | -13.00      | -52.43      |
| 2112.0          | V               | 100                 | 320                        | -61.48               | 1.45        | 46.97                         | -48.29                             | -13.00      | -35.29      |
| 2816.0          | V               | -                   | -                          | -78.47               | 3.23        | 31.76                         | -63.50                             | -13.00      | -50.50      |
| 3520.0          | V               | -                   | -                          | -79.22               | 4.87        | 32.65                         | -62.61                             | -13.00      | -49.61      |
| 4224.0          | V               | -                   | -                          | -80.33               | 6.58        | 33.24                         | -62.02                             | -13.00      | -49.02      |

**Table 7-23. Antenna BCM 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 [dB $\mu$ V/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------------|------------------------------------|-------------|-------------|
| 1415.0          | H               | 231                 | 138                        | -75.48               | -1.98       | 29.54                         | -65.71                             | -13.00      | -52.71      |
| 2122.5          | V               | 175                 | 350                        | -60.89               | 1.42        | 47.52                         | -47.73                             | -13.00      | -34.73      |
| 2830.0          | V               | -                   | -                          | -78.69               | 3.26        | 31.57                         | -63.69                             | -13.00      | -50.69      |
| 3537.5          | V               | -                   | -                          | -79.32               | 4.87        | 32.56                         | -62.70                             | -13.00      | -49.70      |
| 4245.0          | V               | -                   | -                          | -80.07               | 6.27        | 33.21                         | -62.05                             | -13.00      | -49.05      |

**Table 7-24. Antenna BCM 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 [dB $\mu$ V/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------------|------------------------------------|-------------|-------------|
| 1422.0          | H               | 170                 | 221                        | -73.96               | -1.98       | 31.06                         | -64.20                             | -13.00      | -51.20      |
| 2133.0          | H               | 131                 | 61                         | -66.52               | 1.42        | 41.89                         | -53.36                             | -13.00      | -40.36      |
| 2844.0          | V               | -                   | -                          | -78.67               | 3.27        | 31.60                         | -63.66                             | -13.00      | -50.66      |
| 3555.0          | H               | -                   | -                          | -79.37               | 4.79        | 32.42                         | -62.84                             | -13.00      | -49.84      |
| 4266.0          | H               | -                   | -                          | -79.86               | 6.32        | 33.47                         | -61.79                             | -13.00      | -48.79      |

**Table 7-25. Antenna BCM Radiated Spurious Data (LTE Band 12/17 – High Channel)**

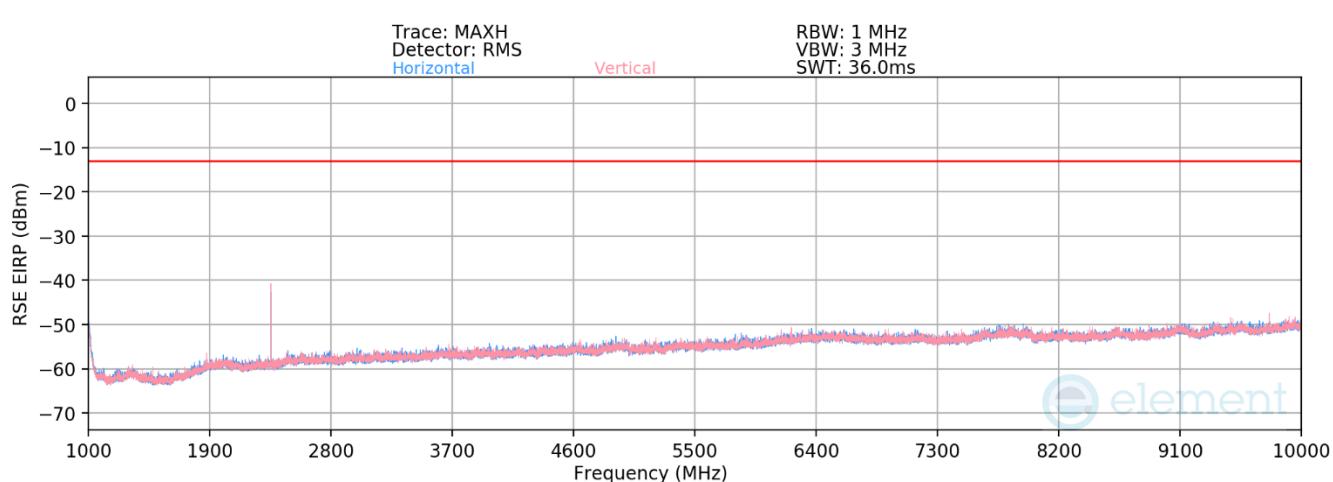
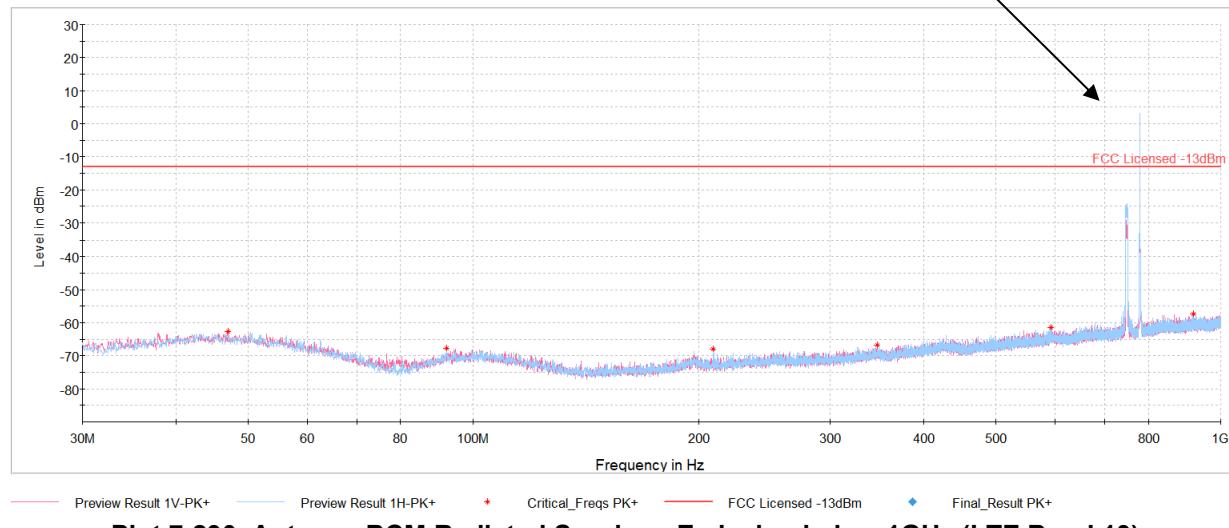
|   |   |                            |  |  |  |  |                                   |
|---|---|----------------------------|--|--|--|--|-----------------------------------|
| FCC ID: BCG-A3337                       |  element | PART 27 MEASUREMENT REPORT |  |  |  |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2503270033-03.BCG | Test Dates:<br>01/31/2025 - 07/21/2025  | EUT Type:<br>Watch         |  |  |  |  |                                   |

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## LTE Band 13



|   |   |                            |                 |                                   |
|---|---|----------------------------|-----------------|-----------------------------------|
| FCC ID: BCG-A3337                       |  element | PART 27 MEASUREMENT REPORT |                 | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2503270033-03.BCG | Test Dates:<br>01/31/2025 - 07/21/2025  | EUT Type:<br>Watch         | Page 189 of 202 |                                   |

|                  |        |
|------------------|--------|
| Bandwidth (MHz): | 5      |
| Frequency (MHz): | 779.5  |
| RB / Offset:     | 1 / 25 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dB $\mu$ V/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------------|------------------------------------|-------------|-------------|
| 1559.0          | H               | 151                 | 234                        | -75.19               | -2.44       | 29.37                         | -65.89                             | -40.00      | -25.89      |
| 2338.5          | H               | 159                 | 58                         | -65.46               | 1.75        | 43.29                         | -51.97                             | -13.00      | -38.97      |
| 3118.0          | V               | -                   | -                          | -78.85               | 4.33        | 32.48                         | -62.77                             | -13.00      | -49.77      |
| 3897.5          | V               | -                   | -                          | -79.50               | 5.76        | 33.26                         | -61.99                             | -13.00      | -48.99      |
| 4677.0          | V               | -                   | -                          | -80.30               | 7.46        | 34.15                         | -61.10                             | -13.00      | -48.10      |

**Table 7-26. Antenna BCM 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 [dB $\mu$ V/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------------|------------------------------------|-------------|-------------|
| 1564.0          | V               | 288                 | 312                        | -76.32               | -2.36       | 28.32                         | -66.94                             | -40.00      | -26.94      |
| 2346.0          | H               | 147                 | 74                         | -64.58               | 1.71        | 44.12                         | -51.13                             | -13.00      | -38.13      |
| 3128.0          | V               | -                   | -                          | -78.57               | 4.18        | 32.61                         | -62.65                             | -13.00      | -49.65      |
| 3910.0          | V               | -                   | -                          | -79.66               | 5.76        | 33.09                         | -62.16                             | -13.00      | -49.16      |
| 4692.0          | H               | -                   | -                          | -80.71               | 7.46        | 33.75                         | -61.51                             | -13.00      | -48.51      |

**Table 7-27. Antenna BCM Radiated Spurious Data (LTE Band 13 – Mid Channel)**

|                  |        |
|------------------|--------|
| Bandwidth (MHz): | 5      |
| Frequency (MHz): | 784.5  |
| RB / Offset:     | 1 / 25 |

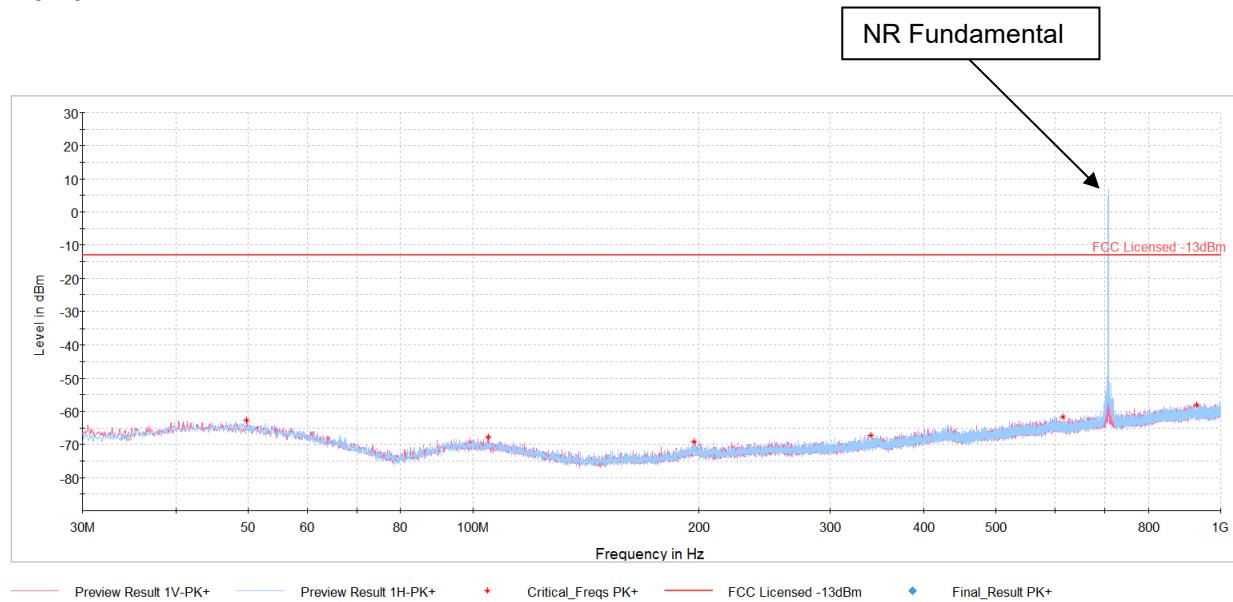
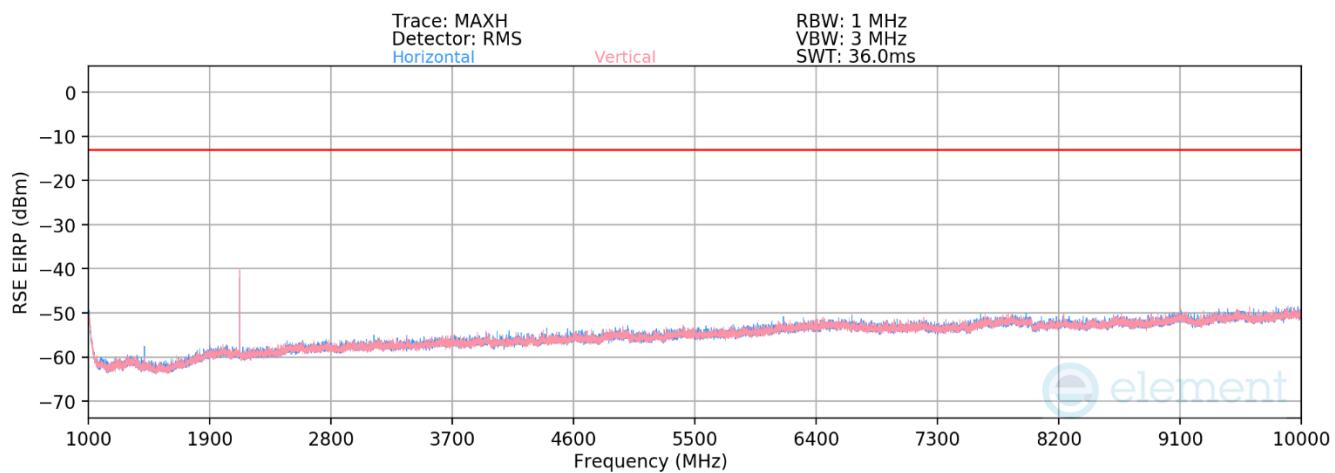
| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dB $\mu$ V/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------------|------------------------------------|-------------|-------------|
| 1569.0          | H               | 121                 | 233                        | -76.29               | -2.36       | 28.34                         | -66.91                             | -40.00      | -26.91      |
| 2353.5          | H               | 117                 | 250                        | -62.62               | 1.63        | 46.01                         | -49.24                             | -13.00      | -36.24      |
| 3138.0          | V               | -                   | -                          | -78.88               | 4.33        | 32.45                         | -62.80                             | -13.00      | -49.80      |
| 3922.5          | V               | -                   | -                          | -79.88               | 5.93        | 33.05                         | -62.21                             | -13.00      | -49.21      |
| 4707.0          | V               | -                   | -                          | -80.91               | 7.69        | 33.78                         | -61.48                             | -13.00      | -48.48      |

**Table 7-28. Antenna BCM Radiated Spurious Data (LTE Band 13 – High Channel)**

|   |   |                            |  |  |  |  |                                   |
|---|---|----------------------------|--|--|--|--|-----------------------------------|
| FCC ID: BCG-A3337                       |  element | PART 27 MEASUREMENT REPORT |  |  |  |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2503270033-03.BCG | Test Dates:<br>01/31/2025 - 07/21/2025  | EUT Type:<br>Watch         |  |  |  |  |                                   |

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**NR Band n12/n17**

**Plot 7-292. Antenna BCM Radiated Spurious Emission below 1GHz (NR Band n12/n17)**

**Plot 7-293. Antenna BCM Radiated Spurious Emission above 1GHz (NR Band n12/n17)**

|   |   |                            |  |                                   |
|---|---|----------------------------|--|-----------------------------------|
| FCC ID: BCG-A3337                       |  element | PART 27 MEASUREMENT REPORT |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2503270033-03.BCG | Test Dates:<br>01/31/2025 - 07/21/2025  | EUT Type:<br>Watch         |  | Page 191 of 202                   |

|                  |        |
|------------------|--------|
| 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 [dB $\mu$ V/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------------|------------------------------------|-------------|-------------|
| 1413.0          | H               | 242                 | 305                        | -74.56               | -1.98       | 30.46                         | -64.80                             | -13.00      | -51.80      |
| 2119.5          | H               | 244                 | 291                        | -62.54               | 1.45        | 45.91                         | -49.35                             | -13.00      | -36.35      |
| 2826.0          | V               | -                   | -                          | -78.54               | 3.26        | 31.71                         | -63.54                             | -13.00      | -50.54      |
| 3532.5          | V               | -                   | -                          | -79.24               | 4.84        | 32.61                         | -62.65                             | -13.00      | -49.65      |
| 4239.0          | V               | -                   | -                          | -79.73               | 6.27        | 33.55                         | -61.71                             | -13.00      | -48.71      |

**Table 7-29. Antenna BCM Radiated Spurious Data (NR Band n12/n17 – 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 [dB $\mu$ V/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------------|------------------------------------|-------------|-------------|
| 1415.0          | H               | 118                 | 274                        | -76.00               | -1.98       | 29.02                         | -66.24                             | -13.00      | -53.24      |
| 2122.5          | H               | 131                 | 271                        | -61.59               | 1.45        | 46.86                         | -48.40                             | -13.00      | -35.40      |
| 2830.0          | V               | -                   | -                          | -78.66               | 3.26        | 31.60                         | -63.66                             | -13.00      | -50.66      |
| 3537.5          | V               | -                   | -                          | -79.27               | 4.79        | 32.52                         | -62.74                             | -13.00      | -49.74      |
| 4245.0          | V               | -                   | -                          | -80.08               | 6.32        | 33.24                         | -62.02                             | -13.00      | -49.02      |

**Table 7-30. Antenna BCM Radiated Spurious Data (NR Band n12/n17 – 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 [dB $\mu$ V/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------------|------------------------------------|-------------|-------------|
| 1417.0          | H               | 201                 | 299                        | -75.07               | -1.98       | 29.95                         | -65.31                             | -13.00      | -52.31      |
| 2125.5          | V               | 108                 | 17                         | -65.12               | 1.42        | 43.30                         | -51.96                             | -13.00      | -38.96      |
| 2834.0          | V               | -                   | -                          | -78.65               | 3.25        | 31.60                         | -63.66                             | -13.00      | -50.66      |
| 3542.5          | V               | -                   | -                          | -79.16               | 4.79        | 32.63                         | -62.63                             | -13.00      | -49.63      |
| 4251.0          | V               | -                   | -                          | -79.91               | 6.27        | 33.36                         | -61.89                             | -13.00      | -48.89      |

**Table 7-31. Antenna BCM Radiated Spurious Data (NR Band n12/n17 – High Channel)**

|   |   |                            |  |  |  |                                   |
|---|---|----------------------------|--|--|--|-----------------------------------|
| FCC ID: BCG-A3337                       |  element | PART 27 MEASUREMENT REPORT |  |  |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2503270033-03.BCG | Test Dates:<br>01/31/2025 - 07/21/2025  | EUT Type:<br>Watch         |  |  |  |                                   |

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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.

|   |   |                            |  |                                   |
|---|---|----------------------------|--|-----------------------------------|
| FCC ID: BCG-A3337                       |  element | PART 27 MEASUREMENT REPORT |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2503270033-03.BCG | Test Dates:<br>01/31/2025 - 07/21/2025  | EUT Type:<br>Watch         |  | Page 193 of 202                   |

## Test Setup

The EUT was connected via an RF cable to a spectrum analyzer with the EUT placed inside an environmental chamber. For LTE testing, in addition, the EUT was connected to a communication tester via an attenuated RF coupler.

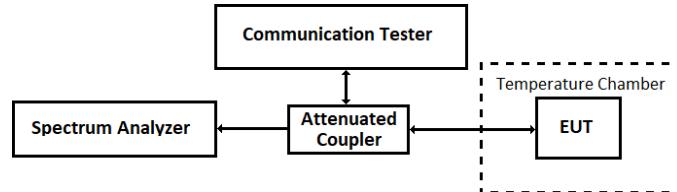


Figure 7-13. LTE Test Instrument & Measurement Setup

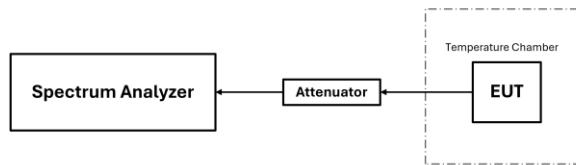


Figure 7-14. FR1 Test Instrument & Measurement Setup

## Test Notes

N/A

|   |   |                            |  |                                   |
|---|---|----------------------------|--|-----------------------------------|
| FCC ID: BCG-A3337                       |  element | PART 27 MEASUREMENT REPORT |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2503270033-03.BCG | Test Dates:<br>01/31/2025 - 07/21/2025  | EUT Type:<br>Watch         |  | Page 194 of 202                   |

**Frequency Stability / Temperature Variation**

| <b>LTE Band 66/4</b>                |                    |                  |                             |   |
|-------------------------------------|--------------------|------------------|-----------------------------|---|
| Operating Band Lower Boundary (GHz) |                    | 1.710            |                             |   |
| Ref. Voltage (VDC):                 |                    | 3.80             |                             |   |
| <b>Voltage (%)</b>                  | <b>Power (VDC)</b> | <b>Temp (°C)</b> | <b>Measured Freq. (GHz)</b> | <b>Freq. Delta from Operating Range (GHz)</b> |
| 100 %                               | 3.80               | - 30             | 1.71090860                  | -0.00090860                                   |
|                                     |                    | - 20             | 1.71044920                  | -0.00044920                                   |
|                                     |                    | - 10             | 1.71015370                  | -0.00015370                                   |
|                                     |                    | 0                | 1.71080620                  | -0.00080620                                   |
|                                     |                    | + 10             | 1.71016370                  | -0.00016370                                   |
|                                     |                    | + 20 (Ref)       | 1.71078710                  | -0.00078710                                   |
|                                     |                    | + 30             | 1.71046960                  | -0.00046960                                   |
|                                     |                    | + 40             | 1.71089790                  | -0.00089790                                   |
|                                     |                    | + 50             | 1.71013680                  | -0.00013680                                   |
|                                     |                    | Battery Endpoint | 3.40                        | + 20  |
|                                     |                    |                  | 1.71047450                  | -0.00047450                                   |

**Table 7-32. LTE Band 66/4 Lower Boundary Frequency Stability Data**

| <b>LTE Band 66/4</b>                |                    |                  |                             |   |
|-------------------------------------|--------------------|------------------|-----------------------------|---|
| Operating Band Upper Boundary (GHz) |                    | 1.780            |                             |   |
| Ref. Voltage (VDC):                 |                    | 3.80             |                             |   |
| <b>Voltage (%)</b>                  | <b>Power (VDC)</b> | <b>Temp (°C)</b> | <b>Measured Freq. (GHz)</b> | <b>Freq. Delta from Operating Range (GHz)</b> |
| 100 %                               | 3.80               | - 30             | 1.77984900                  | -0.00015100                                   |
|                                     |                    | - 20             | 1.77938420                  | -0.00061580                                   |
|                                     |                    | - 10             | 1.77956200                  | -0.00043800                                   |
|                                     |                    | 0                | 1.77973590                  | -0.00026410                                   |
|                                     |                    | + 10             | 1.77997210                  | -0.00002790                                   |
|                                     |                    | + 20 (Ref)       | 1.77968330                  | -0.00031670                                   |
|                                     |                    | + 30             | 1.77903020                  | -0.00096980                                   |
|                                     |                    | + 40             | 1.77929560                  | -0.00070440                                   |
|                                     |                    | + 50             | 1.77912760                  | -0.00087240                                   |
|                                     |                    | Battery Endpoint | 3.40                        | + 20  |
|                                     |                    |                  | 1.77902360                  | -0.00097640                                   |

**Table 7-33. LTE Band 66/4 Upper Boundary Frequency Stability Data**

|   |   |                            |  |                                   |
|---|---|----------------------------|--|-----------------------------------|
| FCC ID: BCG-A3337                       |  element | PART 27 MEASUREMENT REPORT |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2503270033-03.BCG | Test Dates:<br>01/31/2025 - 07/21/2025  | EUT Type:<br>Watch         |  |                                   |

**Frequency Stability / Temperature Variation**

| <b>LTE Band 71</b> |             |                                     |                      |  |
|--------------------|-------------|-------------------------------------|----------------------|--|
|                    |             | Operating Band Lower Boundary (GHz) | 0.663                |  |
|                    |             | Ref. Voltage (VDC):                 | 3.80                 |  |
| Voltage (%)        | Power (VDC) | Temp (°C)                           | Measured Freq. (GHz) | Freq. Delta from Operating Range (GHz) |
| 100 %              | 3.80        | - 30                                | 0.66326940           | -0.00026940                            |
|                    |             | - 20                                | 0.66329500           | -0.00029500                            |
|                    |             | - 10                                | 0.66345240           | -0.00045240                            |
|                    |             | 0                                   | 0.66397010           | -0.00097010                            |
|                    |             | + 10                                | 0.66344430           | -0.00044430                            |
|                    |             | + 20 (Ref)                          | 0.66332020           | -0.00032020                            |
|                    |             | + 30                                | 0.66318540           | -0.00018540                            |
|                    |             | + 40                                | 0.66397480           | -0.00097480                            |
|                    |             | + 50                                | 0.66385710           | -0.00085710                            |
|                    |             | Battery Endpoint                    | 0.66384480           | -0.00084480                            |

**Table 7-34. LTE Band 71 Lower Boundary Frequency Stability Data**

| <b>LTE Band 71</b> |             |                                     |                      |  |
|--------------------|-------------|-------------------------------------|----------------------|--|
|                    |             | Operating Band Upper Boundary (GHz) | 0.698                |  |
|                    |             | Ref. Voltage (VDC):                 | 3.80                 |  |
| Voltage (%)        | Power (VDC) | Temp (°C)                           | Measured Freq. (GHz) | Freq. Delta from Operating Range (GHz) |
| 100 %              | 3.80        | - 30                                | 0.69777730           | -0.00022270                            |
|                    |             | - 20                                | 0.69758900           | -0.00041100                            |
|                    |             | - 10                                | 0.69743740           | -0.00056260                            |
|                    |             | 0                                   | 0.69745800           | -0.00054200                            |
|                    |             | + 10                                | 0.69777110           | -0.00022890                            |
|                    |             | + 20 (Ref)                          | 0.69758720           | -0.00041280                            |
|                    |             | + 30                                | 0.69746520           | -0.00053480                            |
|                    |             | + 40                                | 0.69740040           | -0.00059960                            |
|                    |             | + 50                                | 0.69776390           | -0.00023610                            |
|                    |             | Battery Endpoint                    | 0.69744850           | -0.00055150                            |

**Table 7-35. LTE Band 71 Upper Boundary Frequency Stability Data**

|   |   |                            |  |                                   |
|---|---|----------------------------|--|-----------------------------------|
| FCC ID: BCG-A3337                       |  element | PART 27 MEASUREMENT REPORT |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2503270033-03.BCG | Test Dates:<br>01/31/2025 - 07/21/2025  | EUT Type:<br>Watch         |  | Page 196 of 202                   |

**Frequency Stability / Temperature Variation**

| <b>LTE Band 12/17</b> |                    |                                     |                             |   |
|-----------------------|--------------------|-------------------------------------|-----------------------------|---|
|                       |                    | Operating Band Lower Boundary (GHz) | 0.699                       |   |
|                       |                    | Ref. Voltage (VDC):                 | 3.80                        |   |
| <b>Voltage (%)</b>    | <b>Power (VDC)</b> | <b>Temp (°C)</b>                    | <b>Measured Freq. (GHz)</b> | <b>Freq. Delta from Operating Range (GHz)</b> |
| 100 %                 | 3.80               | - 30                                | 0.69974720                  | -0.00174720                                   |
|                       |                    | - 20                                | 0.69990090                  | -0.00190090                                   |
|                       |                    | - 10                                | 0.69919260                  | -0.00119260                                   |
|                       |                    | 0                                   | 0.69937840                  | -0.00137840                                   |
|                       |                    | + 10                                | 0.69975510                  | -0.00175510                                   |
|                       |                    | + 20 (Ref)                          | 0.69912010                  | -0.00112010                                   |
|                       |                    | + 30                                | 0.69901750                  | -0.00101750                                   |
|                       |                    | + 40                                | 0.69902990                  | -0.00102990                                   |
|                       |                    | + 50                                | 0.69930740                  | -0.00130740                                   |
|                       |                    | Battery Endpoint                    | 0.69919560                  | -0.00119560                                   |

**Table 7-36. LTE Band 12/17 Lower Boundary Frequency Stability Data**

| <b>LTE Band 12/17</b> |                    |                                     |                             |   |
|-----------------------|--------------------|-------------------------------------|-----------------------------|---|
|                       |                    | Operating Band Upper Boundary (GHz) | 0.716                       |   |
|                       |                    | Ref. Voltage (VDC):                 | 3.80                        |   |
| <b>Voltage (%)</b>    | <b>Power (VDC)</b> | <b>Temp (°C)</b>                    | <b>Measured Freq. (GHz)</b> | <b>Freq. Delta from Operating Range (GHz)</b> |
| 100 %                 | 3.80               | - 30                                | 0.71547090                  | -0.00052910                                   |
|                       |                    | - 20                                | 0.71501350                  | -0.00098650                                   |
|                       |                    | - 10                                | 0.71557190                  | -0.00042810                                   |
|                       |                    | 0                                   | 0.71520560                  | -0.00079440                                   |
|                       |                    | + 10                                | 0.71545850                  | -0.00054150                                   |
|                       |                    | + 20 (Ref)                          | 0.71515320                  | -0.00084680                                   |
|                       |                    | + 30                                | 0.71513850                  | -0.00086150                                   |
|                       |                    | + 40                                | 0.71516650                  | -0.00083350                                   |
|                       |                    | + 50                                | 0.71542760                  | -0.00057240                                   |
|                       |                    | Battery Endpoint                    | 0.71587440                  | -0.00012560                                   |

**Table 7-37. LTE Band 12/17 Upper Boundary Frequency Stability Data**

|   |   |                            |  |                                   |
|---|---|----------------------------|--|-----------------------------------|
| FCC ID: BCG-A3337                       |  element | PART 27 MEASUREMENT REPORT |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2503270033-03.BCG | Test Dates:<br>01/31/2025 - 07/21/2025  | EUT Type:<br>Watch         |  | Page 197 of 202                   |

**Frequency Stability / Temperature Variation**

| <b>LTE Band 13</b> |             |                                     |                      |  |
|--------------------|-------------|-------------------------------------|----------------------|--|
|                    |             | Operating Band Lower Boundary (GHz) | 0.777                |  |
|                    |             | Ref. Voltage (VDC):                 | 3.80                 |  |
| Voltage (%)        | Power (VDC) | Temp (°C)                           | Measured Freq. (GHz) | Freq. Delta from Operating Range (GHz) |
| 100 %              | 3.80        | - 30                                | 0.77761010           | -0.00061010                            |
|                    |             | - 20                                | 0.77785160           | -0.00085160                            |
|                    |             | - 10                                | 0.77775990           | -0.00075990                            |
|                    |             | 0                                   | 0.77778150           | -0.00078150                            |
|                    |             | + 10                                | 0.77752510           | -0.00052510                            |
|                    |             | + 20 (Ref)                          | 0.77764060           | -0.00064060                            |
|                    |             | + 30                                | 0.77767590           | -0.00067590                            |
|                    |             | + 40                                | 0.77788510           | -0.00088510                            |
|                    |             | + 50                                | 0.77778820           | -0.00078820                            |
|                    |             | Battery Endpoint                    | 0.77785120           | -0.00085120                            |

**Table 7-38. LTE Band 13 Lower Boundary Frequency Stability Data**

| <b>LTE Band 13</b> |             |                                     |                      |  |
|--------------------|-------------|-------------------------------------|----------------------|--|
|                    |             | Operating Band Upper Boundary (GHz) | 0.787                |  |
|                    |             | Ref. Voltage (VDC):                 | 3.80                 |  |
| Voltage (%)        | Power (VDC) | Temp (°C)                           | Measured Freq. (GHz) | Freq. Delta from Operating Range (GHz) |
| 100 %              | 3.80        | - 30                                | 0.78667310           | -0.00032690                            |
|                    |             | - 20                                | 0.78646690           | -0.00053310                            |
|                    |             | - 10                                | 0.78676380           | -0.00023620                            |
|                    |             | 0                                   | 0.78617830           | -0.00082170                            |
|                    |             | + 10                                | 0.78681500           | -0.00018500                            |
|                    |             | + 20 (Ref)                          | 0.78646310           | -0.00053690                            |
|                    |             | + 30                                | 0.78601080           | -0.00098920                            |
|                    |             | + 40                                | 0.78621520           | -0.00078480                            |
|                    |             | + 50                                | 0.78685730           | -0.00014270                            |
|                    |             | Battery Endpoint                    | 0.78643700           | -0.00056300                            |

**Table 7-39. LTE Band 13 Upper Boundary Frequency Stability Data**

|   |   |                            |  |                                   |
|---|---|----------------------------|--|-----------------------------------|
| FCC ID: BCG-A3337                       |  element | PART 27 MEASUREMENT REPORT |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1C2503270033-03.BCG | Test Dates:<br>01/31/2025 - 07/21/2025  | EUT Type:<br>Watch         |  | Page 198 of 202                   |

**Frequency Stability / Temperature Variation**

| <b>NR Band n66</b> |             |                                     |                      |  |
|--------------------|-------------|-------------------------------------|----------------------|--|
|                    |             | Operating Band Lower Boundary (GHz) | 1.710                |  |
|                    |             | Ref. Voltage (VDC):                 | 3.80                 |  |
| Voltage (%)        | Power (VDC) | Temp (°C)                           | Measured Freq. (GHz) | Freq. Delta from Operating Range (GHz) |
| 100 %              | 3.80        | - 30                                | 1.71041350           | -0.00041350                            |
|                    |             | - 20                                | 1.71041170           | -0.00041170                            |
|                    |             | - 10                                | 1.71076290           | -0.00076290                            |
|                    |             | 0                                   | 1.71067380           | -0.00067380                            |
|                    |             | + 10                                | 1.71022210           | -0.00022210                            |
|                    |             | + 20 (Ref)                          | 1.71053160           | -0.00053160                            |
|                    |             | + 30                                | 1.71055680           | -0.00055680                            |
|                    |             | + 40                                | 1.71052080           | -0.00052080                            |
|                    |             | + 50                                | 1.71054860           | -0.00054860                            |
|                    |             | Battery Endpoint                    | 3.40                 | + 20                                   |
|                    |             |                                     | 1.71068670           | -0.00068670                            |

**Table 7-40. NR Band n66 Lower Boundary Frequency Stability Data**

| <b>NR Band n66</b> |             |                                     |                      |  |
|--------------------|-------------|-------------------------------------|----------------------|--|
|                    |             | Operating Band Upper Boundary (GHz) | 1.780                |  |
|                    |             | Ref. Voltage (VDC):                 | 3.80                 |  |
| Voltage (%)        | Power (VDC) | Temp (°C)                           | Measured Freq. (GHz) | Freq. Delta from Operating Range (GHz) |
| 100 %              | 3.80        | - 30                                | 1.77957760           | -0.00042240                            |
|                    |             | - 20                                | 1.77961570           | -0.00038430                            |
|                    |             | - 10                                | 1.77949280           | -0.00050720                            |
|                    |             | 0                                   | 1.77954690           | -0.00045310                            |
|                    |             | + 10                                | 1.77946200           | -0.00053800                            |
|                    |             | + 20 (Ref)                          | 1.77974080           | -0.00025920                            |
|                    |             | + 30                                | 1.77982270           | -0.00017730                            |
|                    |             | + 40                                | 1.77950790           | -0.00049210                            |
|                    |             | + 50                                | 1.77951390           | -0.00048610                            |
|                    |             | Battery Endpoint                    | 3.40                 | + 20                                   |
|                    |             |                                     | 1.77957750           | -0.00042250                            |

**Table 7-41. NR Band n66 Upper Boundary Frequency Stability Data**

|   |   |                            |  |                                   |
|---|---|----------------------------|--|-----------------------------------|
| FCC ID: BCG-A3337                       |  element | PART 27 MEASUREMENT REPORT |  | Approved by:<br>Technical Manager |
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**Frequency Stability / Temperature Variation**

| <b>NR Band n71</b> |             |                                     |                      |  |
|--------------------|-------------|-------------------------------------|----------------------|--|
|                    |             | Operating Band Lower Boundary (GHz) | 0.663                |  |
|                    |             | Ref. Voltage (VDC):                 | 3.80                 |  |
| Voltage (%)        | Power (VDC) | Temp (°C)                           | Measured Freq. (GHz) | Freq. Delta from Operating Range (GHz) |
| 100 %              | 3.80        | - 30                                | 0.66357320           | -0.00057320                            |
|                    |             | - 20                                | 0.66362740           | -0.00062740                            |
|                    |             | - 10                                | 0.66341760           | -0.00041760                            |
|                    |             | 0                                   | 0.66332030           | -0.00032030                            |
|                    |             | + 10                                | 0.66348690           | -0.00048690                            |
|                    |             | + 20 (Ref)                          | 0.66340520           | -0.00040520                            |
|                    |             | + 30                                | 0.66352750           | -0.00052750                            |
|                    |             | + 40                                | 0.66346720           | -0.00046720                            |
|                    |             | + 50                                | 0.66350920           | -0.00050920                            |
|                    |             | Battery Endpoint                    | 0.66345550           | -0.00045550                            |

**Table 7-42. NR Band n71 Lower Boundary Frequency Stability Data**

| <b>NR Band n71</b> |             |                                     |                      |  |
|--------------------|-------------|-------------------------------------|----------------------|--|
|                    |             | Operating Band Upper Boundary (GHz) | 0.698                |  |
|                    |             | Ref. Voltage (VDC):                 | 3.80                 |  |
| Voltage (%)        | Power (VDC) | Temp (°C)                           | Measured Freq. (GHz) | Freq. Delta from Operating Range (GHz) |
| 100 %              | 3.80        | - 30                                | 0.69741880           | -0.00058120                            |
|                    |             | - 20                                | 0.69727630           | -0.00072370                            |
|                    |             | - 10                                | 0.69779770           | -0.00020230                            |
|                    |             | 0                                   | 0.69786860           | -0.00013140                            |
|                    |             | + 10                                | 0.69789260           | -0.00010740                            |
|                    |             | + 20 (Ref)                          | 0.69782200           | -0.00017800                            |
|                    |             | + 30                                | 0.69785406           | -0.00014594                            |
|                    |             | + 40                                | 0.69760690           | -0.00039310                            |
|                    |             | + 50                                | 0.69725940           | -0.00074060                            |
|                    |             | Battery Endpoint                    | 0.69738140           | -0.00061860                            |

**Table 7-43. NR Band n71 Upper Boundary Frequency Stability Data**

|   |   |                            |  |                                   |
|---|---|----------------------------|--|-----------------------------------|
| FCC ID: BCG-A3337                       |  element | PART 27 MEASUREMENT REPORT |  | Approved by:<br>Technical Manager |
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**Frequency Stability / Temperature Variation**

| <b>NR Band n12</b> |             |                                     |                      |  |
|--------------------|-------------|-------------------------------------|----------------------|--|
|                    |             | Operating Band Lower Boundary (GHz) | 0.699                |  |
|                    |             | Ref. Voltage (VDC):                 | 3.80                 |  |
| Voltage (%)        | Power (VDC) | Temp (°C)                           | Measured Freq. (GHz) | Freq. Delta from Operating Range (GHz) |
| 100 %              | 3.80        | - 30                                | 0.69975920           | -0.00075920                            |
|                    |             | - 20                                | 0.69964090           | -0.00064090                            |
|                    |             | - 10                                | 0.69954720           | -0.00054720                            |
|                    |             | 0                                   | 0.69989030           | -0.00089030                            |
|                    |             | + 10                                | 0.69896160           | 0.00003840                             |
|                    |             | + 20 (Ref)                          | 0.69938930           | -0.00038930                            |
|                    |             | + 30                                | 0.69974840           | -0.00074840                            |
|                    |             | + 40                                | 0.69934350           | -0.00034350                            |
|                    |             | + 50                                | 0.69932890           | -0.00032890                            |
|                    |             | Battery Endpoint                    | 0.69938290           | -0.00038290                            |

**Table 7-44. NR Band n12 Lower Boundary Frequency Stability Data**

| <b>NR Band n12</b> |             |                                     |                      |  |
|--------------------|-------------|-------------------------------------|----------------------|--|
|                    |             | Operating Band Upper Boundary (GHz) | 0.716                |  |
|                    |             | Ref. Voltage (VDC):                 | 3.80                 |  |
| Voltage (%)        | Power (VDC) | Temp (°C)                           | Measured Freq. (GHz) | Freq. Delta from Operating Range (GHz) |
| 100 %              | 3.80        | - 30                                | 0.71536270           | -0.00063730                            |
|                    |             | - 20                                | 0.71554790           | -0.00045210                            |
|                    |             | - 10                                | 0.71573730           | -0.00026270                            |
|                    |             | 0                                   | 0.71543410           | -0.00056590                            |
|                    |             | + 10                                | 0.71574350           | -0.00025650                            |
|                    |             | + 20 (Ref)                          | 0.71536740           | -0.00063260                            |
|                    |             | + 30                                | 0.71571080           | -0.00028920                            |
|                    |             | + 40                                | 0.71571240           | -0.00028760                            |
|                    |             | + 50                                | 0.71565060           | -0.00034940                            |
|                    |             | Battery Endpoint                    | 0.71530980           | -0.00069020                            |

**Table 7-45. NR Band n12 Upper Boundary Frequency Stability Data**

|   |   |                            |  |                                   |
|---|---|----------------------------|--|-----------------------------------|
| FCC ID: BCG-A3337                       |  element | PART 27 MEASUREMENT REPORT |  | Approved by:<br>Technical Manager |
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## 8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Apple Watch FCC ID: BCG-A3337** complies with all the requirements of Part 27 of the FCC rules.

| FCC ID: BCG-A3337                       | PART 27 MEASUREMENT REPORT             |                    | Approved by:<br>Technical Manager |
|---|--|--------------------|-----------------------------------|
| Test Report S/N:<br>1C2503270033-03.BCG | Test Dates:<br>01/31/2025 - 07/21/2025 | EUT Type:<br>Watch | Page 202 of 202                   |