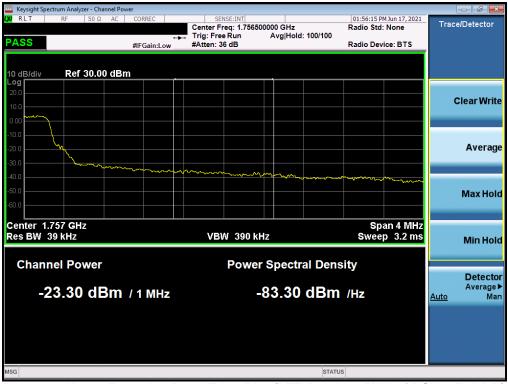


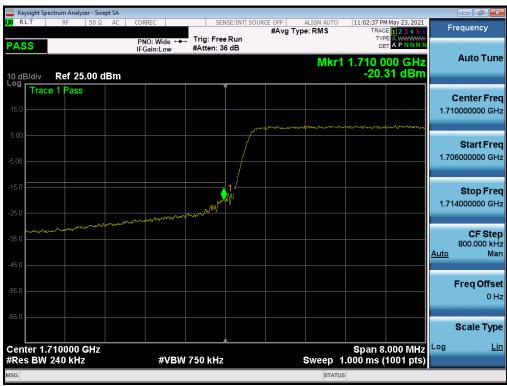
Plot 7-90. Upper Band Edge Plot (LTE Band 4 - 5MHz QPSK - Full RB)



Plot 7-91. Upper Extended Band Edge Plot (LTE Band 4 - 5MHz QPSK - Full RB)

| FCC ID: BCG-A2475 | Proud to be part of @ element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
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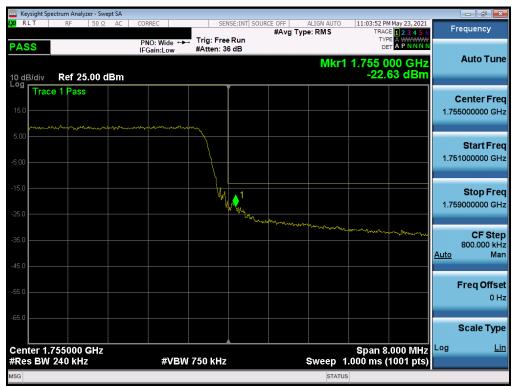
Plot 7-92. Lower Band Edge Plot (LTE Band 4 - 10MHz QPSK - Full RB)



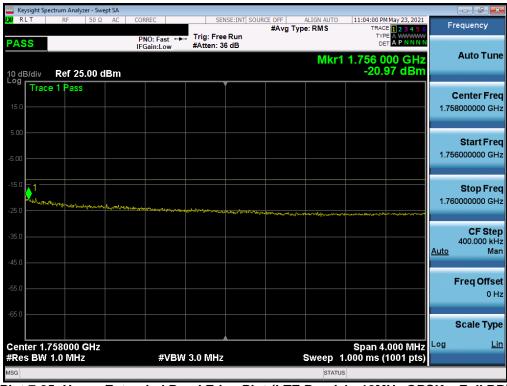
Plot 7-93. Lower Extended Band Edge Plot (LTE Band 4 - 10MHz QPSK - Full RB)

| FCC ID: BCG-A2475 | Proud to be part of @ element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
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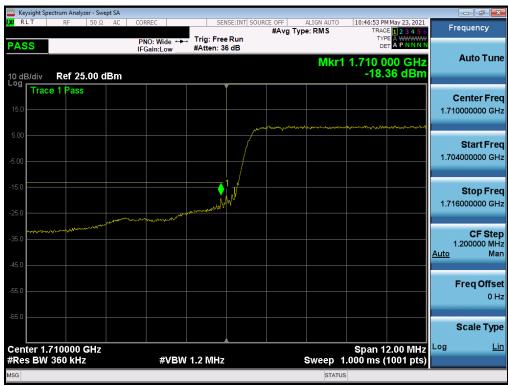
Plot 7-94. Upper Band Edge Plot (LTE Band 4 - 10MHz QPSK - Full RB)



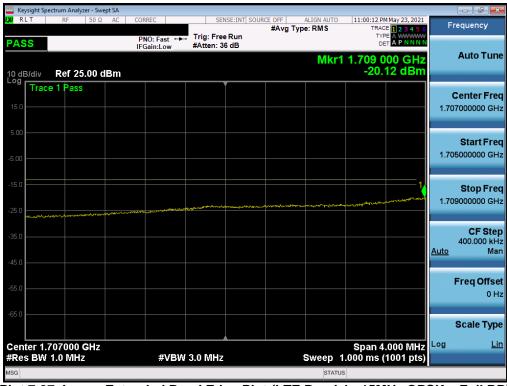
Plot 7-95. Upper Extended Band Edge Plot (LTE Band 4 - 10MHz QPSK - Full RB)

| FCC ID: BCG-A2475 | Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
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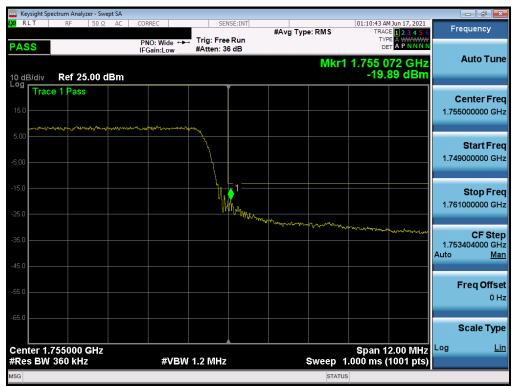
Plot 7-96. Lower Band Edge Plot (LTE Band 4 - 15MHz QPSK - Full RB)



Plot 7-97. Lower Extended Band Edge Plot (LTE Band 4 - 15MHz QPSK - Full RB)

| FCC ID: BCG-A2475 | Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
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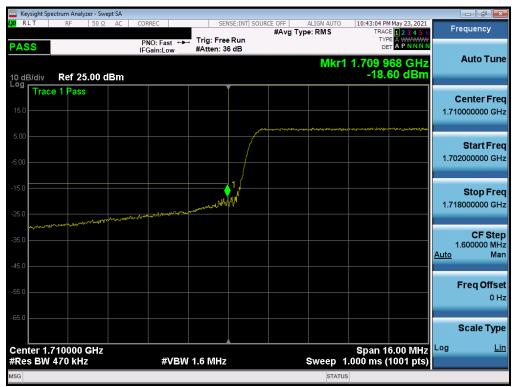
Plot 7-98. Upper Band Edge Plot (LTE Band 4 - 15MHz QPSK - Full RB)



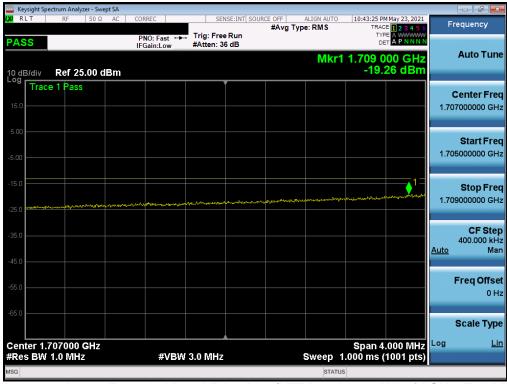
Plot 7-99. Upper Extended Band Edge Plot (LTE Band 4 - 15MHz QPSK - Full RB)

| FCC ID: BCG-A2475 | Proud to be part of @ element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
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| 1C2106070043-03-R1.BCG | 06-08-2021 – 08-04-2021 | Watch | rage 70 of 120 |





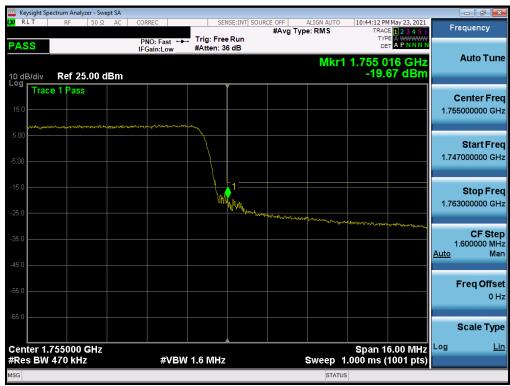
Plot 7-100. Lower Band Edge Plot (LTE Band 4 - 20MHz QPSK - Full RB)



Plot 7-101. Lower Extended Band Edge Plot (LTE Band 4 - 20MHz QPSK - Full RB)

| FCC ID: BCG-A2475 | Proud to be part of @ element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
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Plot 7-102. Upper Band Edge Plot (LTE Band 4 - 20MHz QPSK - Full RB)



Plot 7-103. Upper Extended Band Edge Plot (LTE Band 4 - 20MHz QPSK - Full RB)

| FCC ID: BCG-A2475 | Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
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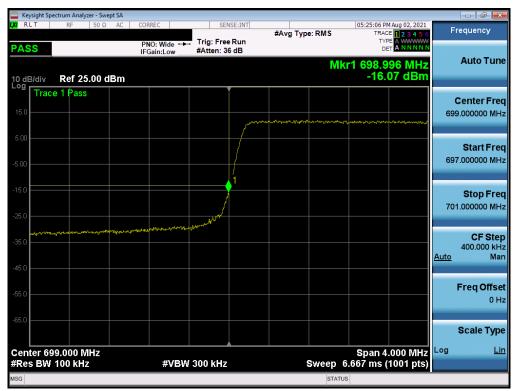
Plot 7-104. Lower Band Edge Plot (LTE Band 12 - 1.4MHz QPSK - Full RB)



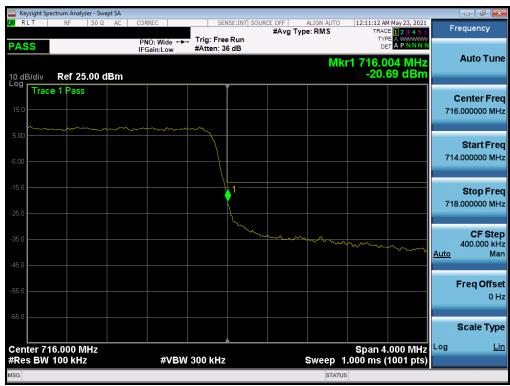
Plot 7-105. Upper Band Edge Plot (LTE Band 12 – 1.4MHz QPSK – Full RB)

| FCC ID: BCG-A2475 | Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
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Plot 7-106. Lower Band Edge Plot (LTE Band 12 - 3MHz QPSK - Full RB)



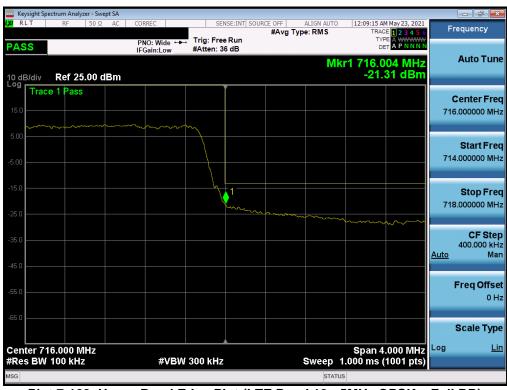
Plot 7-107. Upper Band Edge Plot (LTE Band 12 - 3MHz QPSK - Full RB)

| FCC ID: BCG-A2475 | Proud to be part of @ element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
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Plot 7-108. Lower Band Edge Plot (LTE Band 12 - 5MHz QPSK - Full RB)



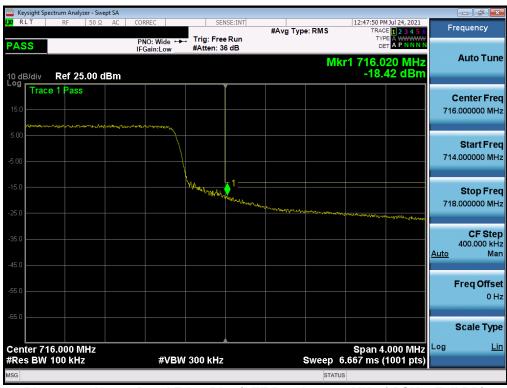
Plot 7-109. Upper Band Edge Plot (LTE Band 12 - 5MHz QPSK - Full RB)

| FCC ID: BCG-A2475 | Proud to be part of @ element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
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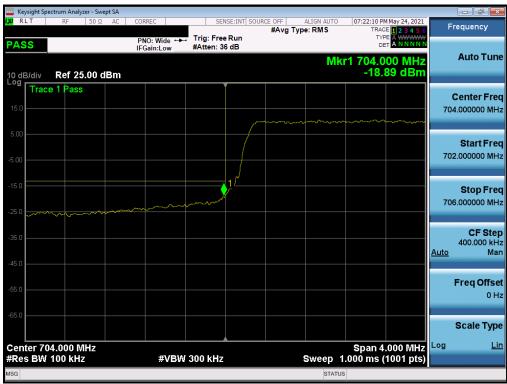
Plot 7-110. Lower Band Edge Plot (LTE Band 12 - 10MHz QPSK - Full RB)



Plot 7-111. Upper Band Edge Plot (LTE Band 12 - 10MHz QPSK - Full RB)

| FCC ID: BCG-A2475 | Proud to be part of @ element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
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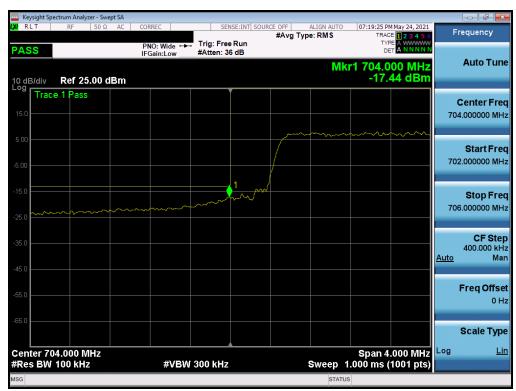
Plot 7-112. Lower Band Edge Plot (LTE Band 17 - 5MHz QPSK - Full RB)



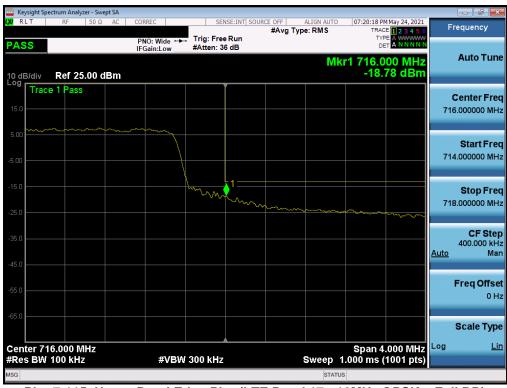
Plot 7-113. Upper Band Edge Plot (LTE Band 17 - 5MHz QPSK - Full RB)

| FCC ID: BCG-A2475 | Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
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Plot 7-114. Lower Band Edge Plot (LTE Band 17 - 10MHz QPSK - Full RB)



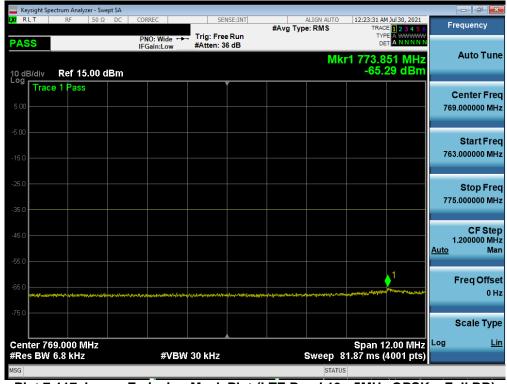
Plot 7-115. Upper Band Edge Plot (LTE Band 17 - 10MHz QPSK - Full RB)

| FCC ID: BCG-A2475 | Proud to be part of @ element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|------------------------|-------------------------------|---------------------------------------|------------------------------|
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Plot 7-116. Lower Band Edge Plot (LTE Band 13 - 5MHz QPSK - Full RB)



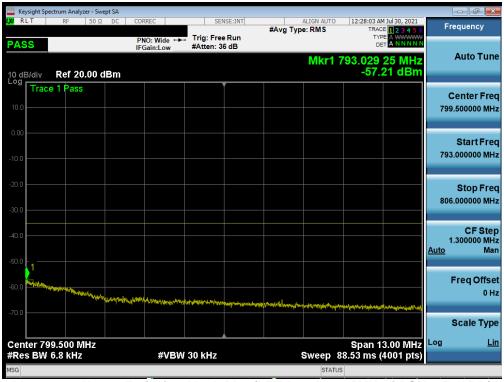
Plot 7-117. Lower Emission Mask Plot (LTE Band 13 - 5MHz QPSK - Full RB)

| | | | <u>, </u> |
|------------------------|-----------------------------|---------------------------------------|--|
| FCC ID: BCG-A2475 | Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
| Test Report S/N: | Test Dates: | EUT Type: | Page 79 of 120 |
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Plot 7-118. Upper Band Edge Plot (LTE Band 13 - 5MHz QPSK - Full RB)



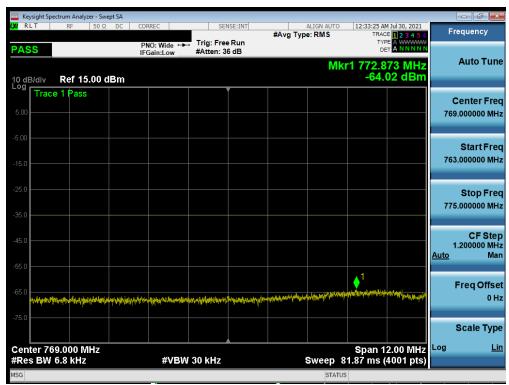
Plot 7-119. Upper Emission Mask Plot (LTE Band 13 - 5MHz QPSK - Full RB)

| FCC ID: BCG-A2475 | Proud to be part of @ element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
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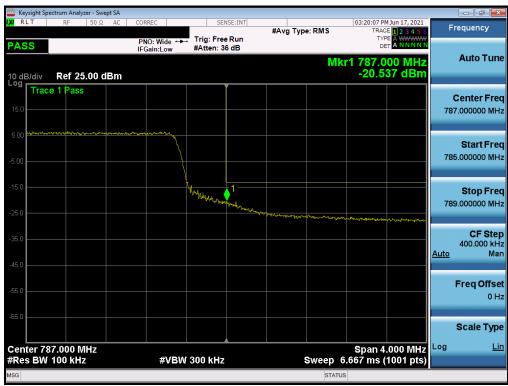
Plot 7-120. Lower Band Edge Plot (LTE Band 13 - 10MHz QPSK - Full RB)



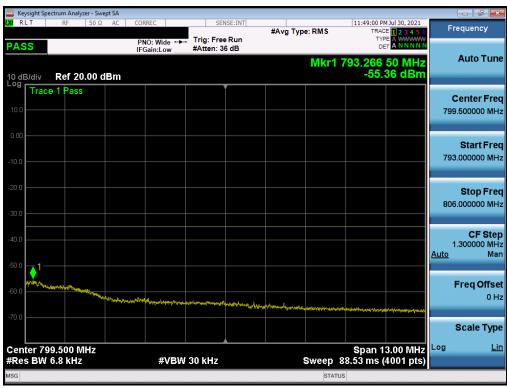
Plot 7-121. Lower Emission Mask Plot (LTE Band 13 - 10MHz QPSK - Full RB)

| FCC ID: BCG-A2475 | Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
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Plot 7-122. Upper Band Edge Plot (LTE Band 13 - 10MHz QPSK - Full RB)



Plot 7-123. Upper Band Edge Plot (LTE Band 13 - 10MHz QPSK - Full RB)

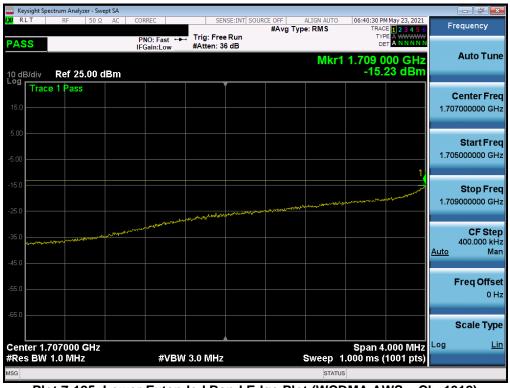
| FCC ID: BCG-A2475 | Proud to be part of @ element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
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WCDMA AWS



Plot 7-124. Lower Band Edge Plot (WCDMA AWS - Ch. 1312)



Plot 7-125. Lower Extended Band Edge Plot (WCDMA AWS - Ch. 1312)

| FCC ID: BCG-A2475 | Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
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Plot 7-126. Upper Band Edge Plot (WCDMA AWS - Ch. 1513)



Plot 7-127. Upper Extended Band Edge Plot (WCDMA AWS - Ch. 1513)

| FCC ID: BCG-A2475 | Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
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7.5 Peak-Average Ratio §27.50(d)(5)

Test Overview

A peak to average ratio measurement is performed at the conducted port of the EUT. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level. All ports were tested and only the worst case data were reported.

Test Procedure Used

KDB 971168 D01 v03r01 - Section 5.7.1

Test Settings

- 1. The signal analyzer's CCDF measurement profile is enabled
- 2. Frequency = carrier center frequency
- 3. Measurement BW ≥ OBW or specified reference bandwidth
- 4. The signal analyzer was set to collect one million samples to generate the CCDF curve
- 5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

Test Setup

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

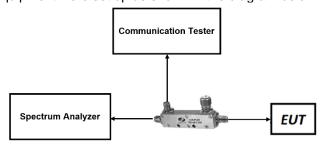


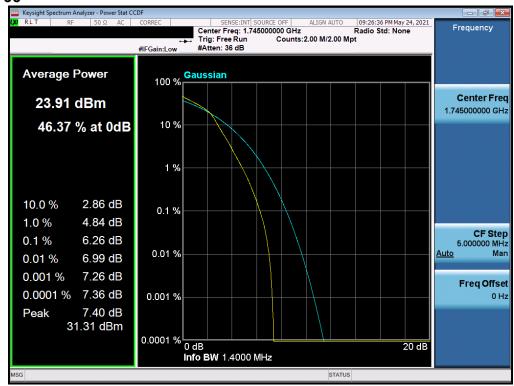
Figure 7-4. Test Instrument & Measurement Setup

Test Notes

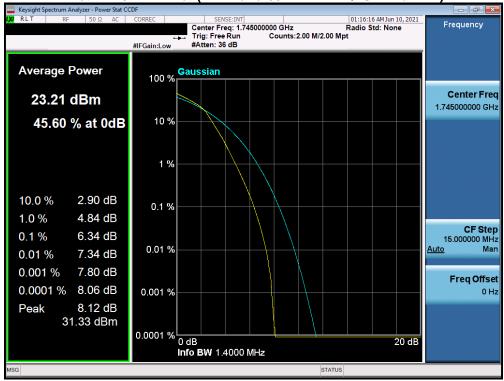
None.

| FCC ID: BCG-A2475 | Proud to be part of @ element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
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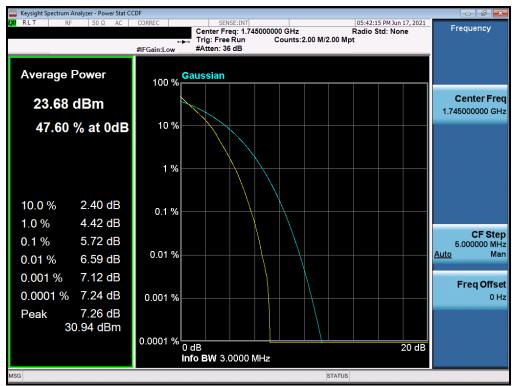
Plot 7-128. PAR Plot (LTE Band 66 - 1.4MHz QPSK - Full RB)



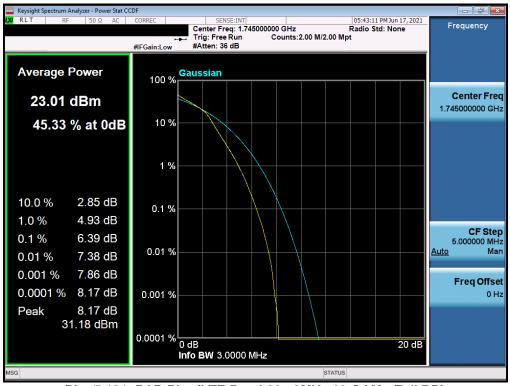
Plot 7-129. PAR Plot (LTE Band 66 - 1.4MHz 16-QAM - Full RB)

| FCC ID: BCG-A2475 | Proud to be part of @ element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
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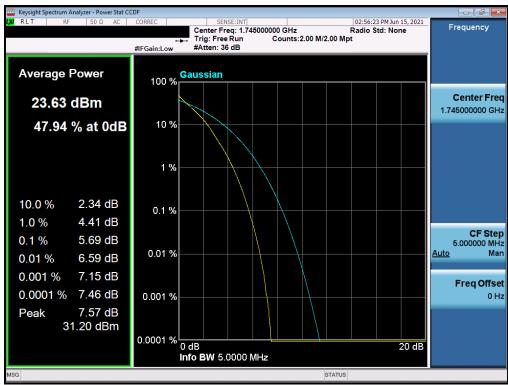
Plot 7-130. PAR Plot (LTE Band 66 - 3MHz QPSK - Full RB)



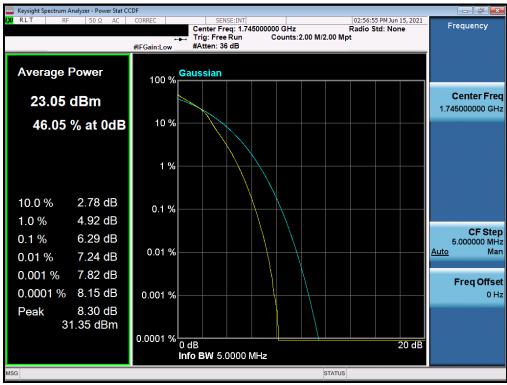
Plot 7-131. PAR Plot (LTE Band 66 - 3MHz 16-QAM - Full RB)

| FCC ID: BCG-A2475 | Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
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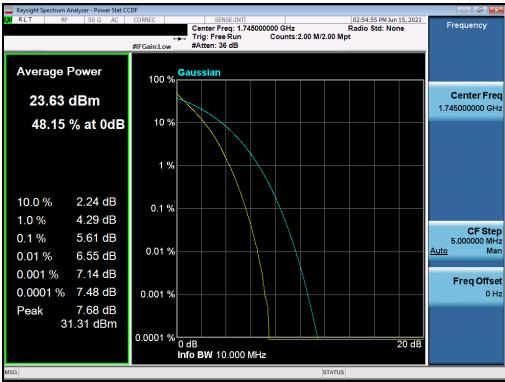
Plot 7-132. PAR Plot (LTE Band 66 - 5MHz QPSK - Full RB)



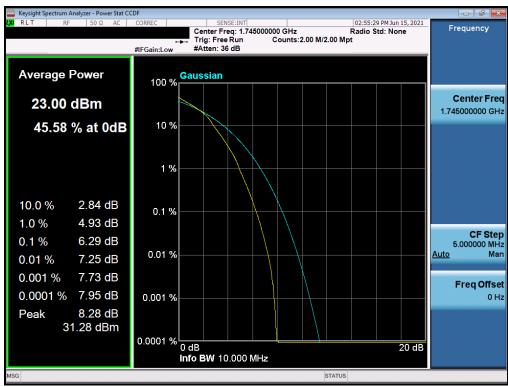
Plot 7-133. PAR Plot (LTE Band 66 - 5MHz 16-QAM - Full RB)

| FCC ID: BCG-A2475 | Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
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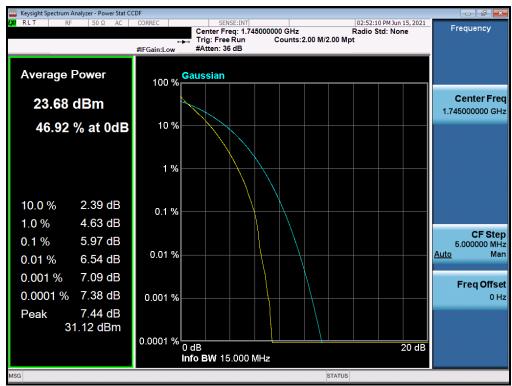
Plot 7-134. PAR Plot (LTE Band 66 - 10MHz QPSK - Full RB)



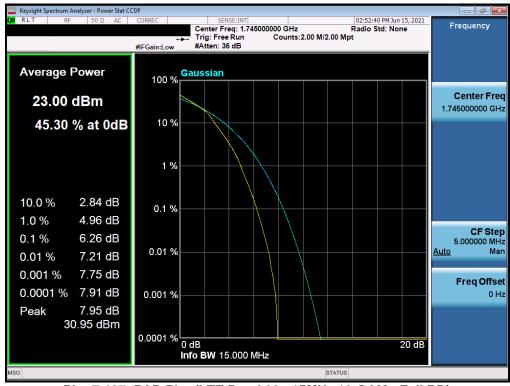
Plot 7-135. PAR Plot (LTE Band 66 - 10MHz 16-QAM - Full RB)

| FCC ID: BCG-A2475 | Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
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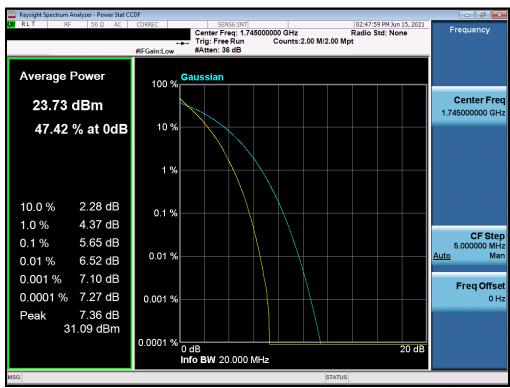
Plot 7-136. PAR Plot (LTE Band 66 - 15MHz QPSK - Full RB)



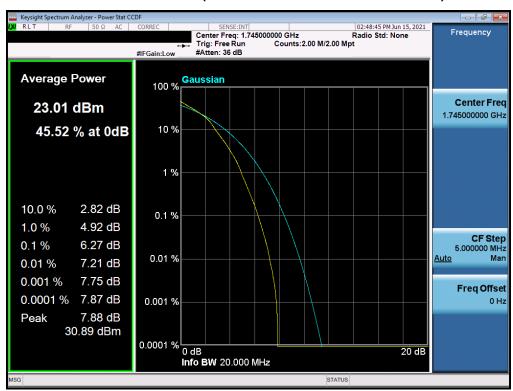
Plot 7-137. PAR Plot (LTE Band 66 - 15MHz 16-QAM - Full RB)

| FCC ID: BCG-A2475 | Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager | |
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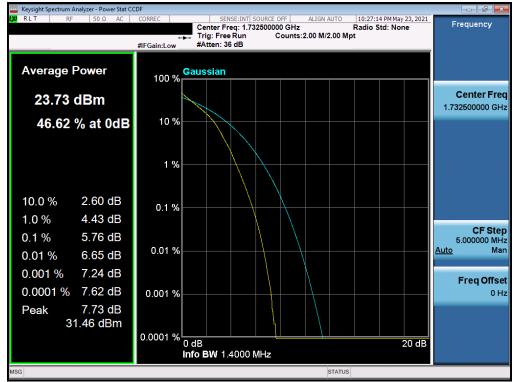
Plot 7-138. PAR Plot (LTE Band 66 - 20MHz QPSK - Full RB)



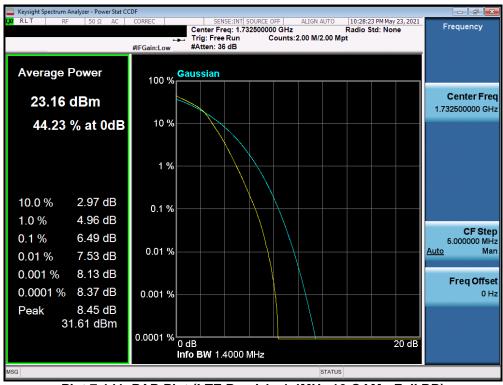
Plot 7-139. PAR Plot (LTE Band 66 - 20MHz 16-QAM - Full RB)

| FCC ID: BCG-A2475 | Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager | |
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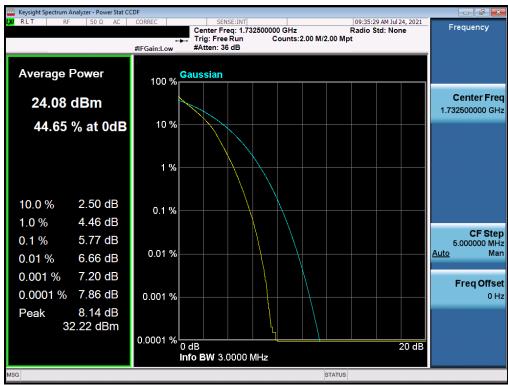
Plot 7-140. PAR Plot (LTE Band 4 - 1.4MHz QPSK - Full RB)



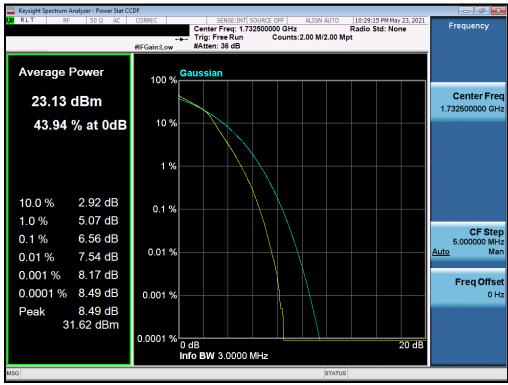
Plot 7-141. PAR Plot (LTE Band 4 - 1.4MHz 16-QAM - Full RB)

| FCC ID: BCG-A2475 | Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager | |
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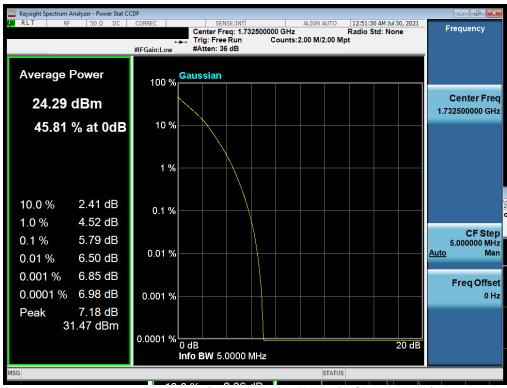
Plot 7-142. PAR Plot (LTE Band 4 - 3MHz QPSK - Full RB)



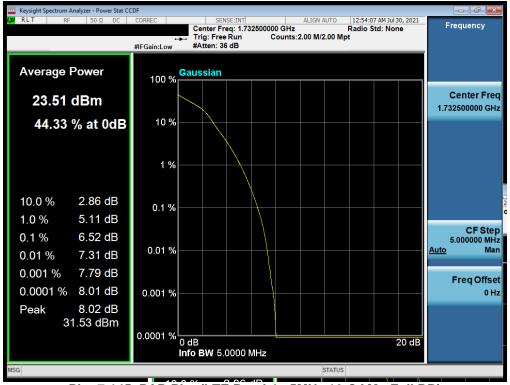
Plot 7-143. PAR Plot (LTE Band 4 - 3MHz 16-QAM - Full RB)

| FCC ID: BCG-A2475 | Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager | |
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| 1C2106070043-03-R1.BCG | 06-08-2021 - 08-04-2021 | Watch | | |





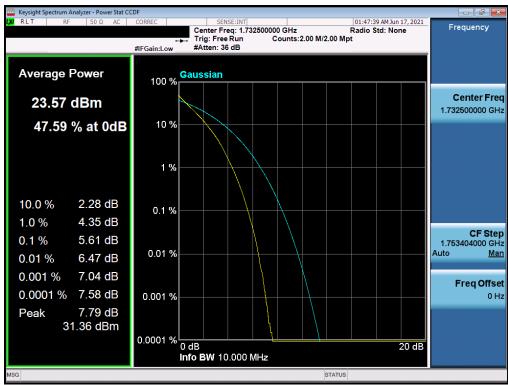
Plot 7-144. PAR Plot (LTE Band 4 - 5MHz QPSK - Full RB)



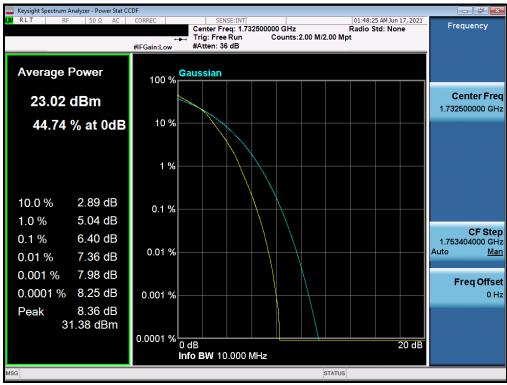
Plot 7-145. PAR Plot (LTE Band 4 - 5MHz 16-QAM - Full RB)

| FCC ID: BCG-A2475 | Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager | |
|------------------------|-----------------------------|---------------------------------------|------------------------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Page 94 of 120 | |
| 1C2106070043-03-R1.BCG | 06-08-2021 - 08-04-2021 | Watch | raye 34 01 120 | |





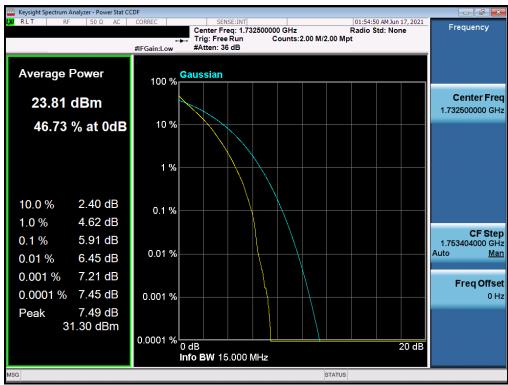
Plot 7-146. PAR Plot (LTE Band 4 - 10MHz QPSK - Full RB)



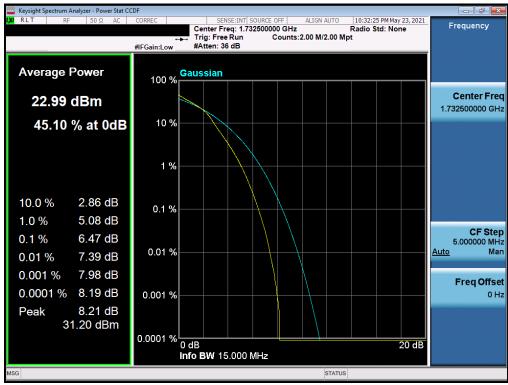
Plot 7-147. PAR Plot (LTE Band 4 - 10MHz 16-QAM - Full RB)

| FCC ID: BCG-A2475 | Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager | |
|------------------------|-----------------------------|---------------------------------------|------------------------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Page 95 of 120 | |
| 1C2106070043-03-R1.BCG | 06-08-2021 - 08-04-2021 | Watch | Page 95 of 120 | |





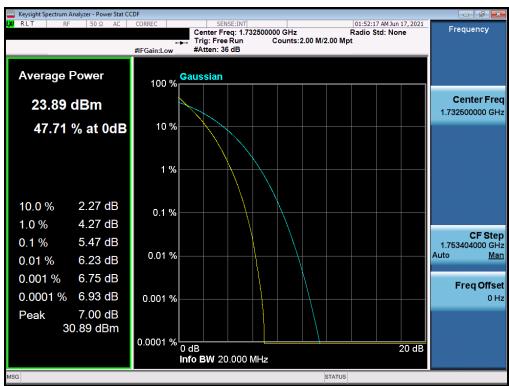
Plot 7-148. PAR Plot (LTE Band 4 - 15MHz QPSK - Full RB)



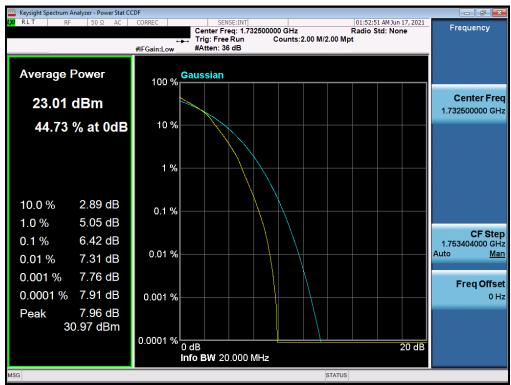
Plot 7-149. PAR Plot (LTE Band 4 - 15MHz 16-QAM - Full RB)

| FCC ID: BCG-A2475 | Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager | |
|------------------------|-----------------------------|------------------------------------|------------------------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Page 96 of 120 | |
| 1C2106070043-03-R1.BCG | 06-08-2021 - 08-04-2021 | Watch | Page 96 of 120 | |





Plot 7-150. PAR Plot (LTE Band 4 - 20MHz QPSK - Full RB)

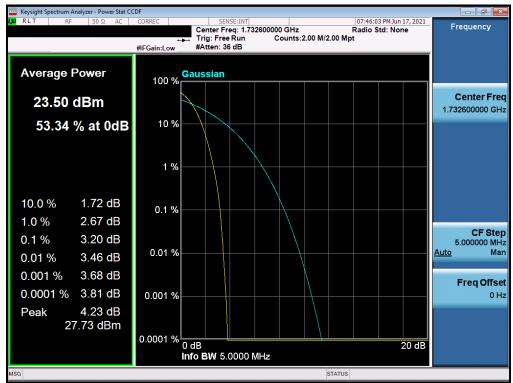


Plot 7-151. PAR Plot (LTE Band 4 - 20MHz 16-QAM - Full RB)

| FCC ID: BCG-A2475 | Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager | |
|------------------------|-----------------------------|---------------------------------------|------------------------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Page 97 of 120 | |
| 1C2106070043-03-R1.BCG | 06-08-2021 - 08-04-2021 | Watch | | |



WCDMA AWS



Plot 7-152. PAR Plot (WCDMA, Ch. 1413)

| FCC ID: BCG-A2475 | PCTEST* MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager | |
|------------------------|--|-----------|------------------------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Page 98 of 120 | |
| 1C2106070043-03-R1.BCG | 06-08-2021 - 08-04-2021 | Watch | Fage 98 01 120 | |



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:

ERP/EIRP = PMeas - LC + GT

Where:

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

PMeas = 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.

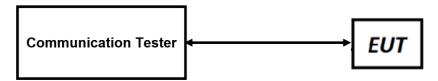


Figure 7-5. ERP/EIRP Measurement Setup

| FCC ID: BCG-A2475 | Proud to be part of @ element | | |
|------------------------|-------------------------------|-----------|----------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 99 of 120 |
| 1C2106070043-03-R1.BCG | 06-08-2021 - 08-04-2021 | Watch | Fage 99 01 120 |



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. This device employs UMTS technology with WCDMA (AMR/RMC) and HSDPA capabilities. The EUT was tested under all configurations and the highest power is reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1."
- 5. The Ant. Gains (GT) are listed in dBi.

| FCC ID: BCG-A2475 | Proud to be part of element | Approved by: Quality Manager | |
|------------------------|-----------------------------|------------------------------|-----------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 100 of 120 |
| 1C2106070043-03-R1.BCG | 06-08-2021 - 08-04-2021 | Watch | Fage 100 of 120 |



Antenna FCM - EIRP

| Bandwidth | Mod. | Frequency [MHz] | Ant. Gain [dBi] | RB Size/Offset | Conducted Power [dBm] | EIRP [dBm] | EIRP [mW] | EIRP Limit [dBm] | Margin [dB] |
|-----------|--------|--------------------|--------------------|-------------------|--------------------------|---------------|-----------|---------------------|----------------|
| | | 1710.7 | -12.60 | 1/3 | 24.36 | 11.76 | 14.997 | 30.00 | -18.24 |
| 1.4 MHz | QPSK | 1745.0 | -12.60 | 1/3 | 24.42 | 11.82 | 15.205 | 30.00 | -18.18 |
| 1.4 WITZ | | 1779.3 | -12.60 | 1/3 | 24.38 | 11.78 | 15.066 | 30.00 | -18.22 |
| | 16-QAM | 1745.0 | -12.60 | 1 / 0 | 24.12 | 11.52 | 14.191 | 30.00 | -18.48 |
| | | 1711.5 | -12.60 | 1 / 0 | 24.37 | 11.77 | 15.031 | 30.00 | -18.23 |
| 3 MHz | QPSK | 1745.0 | -12.60 | 1 / 0 | 24.42 | 11.82 | 15.205 | 30.00 | -18.18 |
| 3 IVITZ | | 1778.5 | -12.60 | 1 / 0 | 24.26 | 11.66 | 14.655 | 30.00 | -18.34 |
| | 16-QAM | 1778.5 | -12.60 | 1 / 7 | 24.12 | 11.52 | 14.191 | 30.00 | -18.48 |
| | | 1712.5 | -12.60 | 1 / 0 | 24.49 | 11.89 | 15.453 | 30.00 | -18.11 |
| 5 MHz | QPSK | 1745.0 | -12.60 | 1 / 0 | 24.50 | 11.90 | 15.488 | 30.00 | -18.10 |
| J IVINZ | | 1777.5 | -12.60 | 1 / 12 | 24.21 | 11.61 | 14.488 | 30.00 | -18.39 |
| | 16-QAM | 1745.0 | -12.60 | 1 / 0 | 23.96 | 11.36 | 13.677 | 30.00 | -18.64 |
| | | 1715.0 | -12.60 | 1 / 0 | 24.30 | 11.70 | 14.791 | 30.00 | -18.30 |
| 10 MHz | QPSK | 1745.0 | -12.60 | 1 / 0 | 24.46 | 11.86 | 15.346 | 30.00 | -18.14 |
| 10 WILIZ | | 1775.0 | -12.60 | 1 / 25 | 24.31 | 11.71 | 14.825 | 30.00 | -18.29 |
| | 16-QAM | 1745.0 | -12.60 | 1 / 25 | 24.10 | 11.50 | 14.125 | 30.00 | -18.50 |
| | | 1717.5 | -12.60 | 1 / 0 | 24.50 | 11.90 | 15.488 | 30.00 | -18.10 |
| 15 MHz | QPSK | 1745.0 | -12.60 | 1 / 0 | 24.48 | 11.88 | 15.417 | 30.00 | -18.12 |
| 13 WITE | | 1772.5 | -12.60 | 1 / 0 | 24.31 | 11.71 | 14.825 | 30.00 | -18.29 |
| | 16-QAM | 1745.0 | -12.60 | 1 / 0 | 24.15 | 11.55 | 14.289 | 30.00 | -18.45 |
| | | 1720.0 | -12.60 | 1/0 | 24.50 | 11.90 | 15.488 | 30.00 | -18.10 |
| 20 MHz | QPSK | 1745.0 | -12.60 | 1 / 99 | 24.43 | 11.83 | 15.241 | 30.00 | -18.17 |
| ZO WILIZ | | 1770.0 | -12.60 | 1 / 99 | 24.49 | 11.89 | 15.453 | 30.00 | -18.11 |
| | 16-QAM | 1745.0 | -12.60 | 1 / 99 | 24.32 | 11.72 | 14.859 | 30.00 | -18.28 |

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

| FCC ID: BCG-A2475 | Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|------------------------|-----------------------------|---------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 101 of 120 |
| 1C2106070043-03-R1.BCG | 06-08-2021 - 08-04-2021 | Watch | rage 101 01 120 |



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] |
|-----------|--------|--------------------|--------------------|-------------------|--------------------------|---------------|-----------|---------------------|----------------|
| | | 1710.7 | -12.60 | 1/3 | 24.50 | 11.90 | 15.488 | 30.00 | -18.10 |
| 1.4 MHz | QPSK | 1732.5 | -12.60 | 1/5 | 24.45 | 11.85 | 15.311 | 30.00 | -18.15 |
| 1.4 WITZ | | 1754.3 | -12.60 | 1/3 | 24.29 | 11.69 | 14.757 | 30.00 | -18.31 |
| | 16-QAM | 1732.5 | -12.60 | 1/5 | 24.32 | 11.72 | 14.859 | 30.00 | -18.28 |
| | | 1711.5 | -12.60 | 1 / 7 | 24.48 | 11.88 | 15.417 | 30.00 | -18.12 |
| 3 MHz | QPSK | 1732.5 | -12.60 | 1 / 0 | 24.40 | 11.80 | 15.136 | 30.00 | -18.20 |
| 3 IVITZ | | 1753.5 | -12.60 | 1 / 0 | 24.50 | 11.90 | 15.488 | 30.00 | -18.10 |
| | 16-QAM | 1753.5 | -12.60 | 1 / 14 | 24.33 | 11.73 | 14.894 | 30.00 | -18.27 |
| | | 1712.5 | -12.60 | 1/0 | 24.50 | 11.90 | 15.488 | 30.00 | -18.10 |
| 5 MHz | QPSK | 1732.5 | -12.60 | 1 / 0 | 24.50 | 11.90 | 15.488 | 30.00 | -18.10 |
| 3 MIHZ | | 1752.5 | -12.60 | 1 / 24 | 24.49 | 11.89 | 15.453 | 30.00 | -18.11 |
| | 16-QAM | 1732.5 | -12.60 | 1/0 | 24.26 | 11.66 | 14.655 | 30.00 | -18.34 |
| | | 1715.0 | -12.60 | 1 / 0 | 24.41 | 11.81 | 15.171 | 30.00 | -18.19 |
| 10 MHz | QPSK | 1732.5 | -12.60 | 1 / 25 | 24.49 | 11.89 | 15.453 | 30.00 | -18.11 |
| IU MINZ | | 1750.0 | -12.60 | 1 / 25 | 24.50 | 11.90 | 15.488 | 30.00 | -18.10 |
| | 16-QAM | 1750.0 | -12.60 | 1 / 49 | 24.29 | 11.69 | 14.757 | 30.00 | -18.31 |
| | | 1717.5 | -12.60 | 1 / 0 | 24.50 | 11.90 | 15.488 | 30.00 | -18.10 |
| 15 MHz | QPSK | 1732.5 | -12.60 | 1 / 74 | 24.41 | 11.81 | 15.171 | 30.00 | -18.19 |
| 15 MITZ | | 1747.5 | -12.60 | 1/0 | 24.41 | 11.81 | 15.171 | 30.00 | -18.19 |
| | 16-QAM | 1747.5 | -12.60 | 1/0 | 24.16 | 11.56 | 14.322 | 30.00 | -18.44 |
| | | 1720.0 | -12.60 | 1/0 | 24.40 | 11.80 | 15.136 | 30.00 | -18.20 |
| 20 MH- | QPSK | 1732.5 | -12.60 | 1/0 | 24.43 | 11.83 | 15.241 | 30.00 | -18.17 |
| 20 MHz | | 1745.0 | -12.60 | 1/0 | 24.50 | 11.90 | 15.488 | 30.00 | -18.10 |
| | 16-QAM | 1732.5 | -12.60 | 1/0 | 24.20 | 11.60 | 14.454 | 30.00 | -18.40 |

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

WCDMA AWS

| Frequency [MHz] | Mode | Conducted Power [dBm] | Ant. Gain [dBi] | EIRP [dBm] | EIRP [mW] | EIRP Limit [dBm] | Margin [dB] |
|--------------------|-----------|-----------------------------|--------------------|---------------|-----------|---------------------|----------------|
| 1712.40 | WCDMA1700 | 24.00 | -12.60 | 11.40 | 13.804 | 30.00 | -18.60 |
| 1732.60 | WCDMA1700 | 23.96 | -12.60 | 11.36 | 13.677 | 30.00 | -18.64 |
| 1752.60 | WCDMA1700 | 23.99 | -12.60 | 11.39 | 13.772 | 30.00 | -18.61 |

Table 7-4. Antenna FCM EIRP Data (WCDMA AWS)

| FCC ID: BCG-A2475 | Proud to be part of @ element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|------------------------|-------------------------------|---------------------------------------|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 102 of 120 |
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Antenna BCM - ERP/EIRP

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] | EIRP [dBm] | EIRP [mW] | EIRP Limit [dBm] | Margin [dB] |
|-----------|--------|--------------------|--------------------|-------------------|--------------------------|-----------|----------|--------------------|----------------|---------------|-----------|---------------------|----------------|
| | | 699.7 | -34.20 | 1/5 | 25.40 | -10.95 | 0.080 | 34.77 | -45.72 | -8.80 | 0.132 | 36.99 | -45.79 |
| 1.4 MHz | QPSK | 707.5 | -34.20 | 1/3 | 25.40 | -10.95 | 0.080 | 34.77 | -45.72 | -8.80 | 0.132 | 36.99 | -45.79 |
| 1.4 WITZ | | 715.3 | -34.20 | 1/3 | 25.50 | -10.85 | 0.082 | 34.77 | -45.62 | -8.70 | 0.135 | 36.99 | -45.69 |
| | 16-QAM | 707.5 | -34.20 | 1/3 | 24.89 | -11.46 | 0.071 | 34.77 | -46.23 | -9.31 | 0.117 | 36.99 | -46.30 |
| | | 700.5 | -34.20 | 1 / 0 | 25.46 | -10.89 | 0.081 | 34.77 | -45.66 | -8.74 | 0.134 | 36.99 | -45.73 |
| 3 MHz | QPSK | 707.5 | -34.20 | 1 / 14 | 25.50 | -10.85 | 0.082 | 34.77 | -45.62 | -8.70 | 0.135 | 36.99 | -45.69 |
| 3 MILZ | | 714.5 | -34.20 | 1/0 | 25.42 | -10.93 | 0.081 | 34.77 | -45.70 | -8.78 | 0.132 | 36.99 | -45.77 |
| | 16-QAM | 707.5 | -34.20 | 1 / 0 | 24.87 | -11.48 | 0.071 | 34.77 | -46.25 | -9.33 | 0.117 | 36.99 | -46.32 |
| | | 701.5 | -34.20 | 1 / 12 | 25.45 | -10.90 | 0.081 | 34.77 | -45.67 | -8.75 | 0.133 | 36.99 | -45.74 |
| 5 MHz | QPSK | 707.5 | -34.20 | 1 / 12 | 25.50 | -10.85 | 0.082 | 34.77 | -45.62 | -8.70 | 0.135 | 36.99 | -45.69 |
| ЭМПZ | | 713.5 | -34.20 | 1 / 12 | 25.18 | -11.17 | 0.076 | 34.77 | -45.94 | -9.02 | 0.125 | 36.99 | -46.01 |
| | 16-QAM | 701.5 | -34.20 | 1 / 24 | 24.73 | -11.62 | 0.069 | 34.77 | -46.39 | -9.47 | 0.113 | 36.99 | -46.46 |
| | | 704.0 | -34.20 | 1 / 25 | 25.32 | -11.03 | 0.079 | 34.77 | -45.80 | -8.88 | 0.129 | 36.99 | -45.87 |
| 10 MHz | QPSK | 707.5 | -34.20 | 1 / 49 | 25.38 | -10.97 | 0.080 | 34.77 | -45.74 | -8.82 | 0.131 | 36.99 | -45.81 |
| IU WINZ | | 711.0 | -34.20 | 1/0 | 25.50 | -10.85 | 0.082 | 34.77 | -45.62 | -8.70 | 0.135 | 36.99 | -45.69 |
| | 16-QAM | 704.0 | -34.20 | 1/0 | 24.83 | -11.52 | 0.070 | 34.77 | -46.29 | -9.37 | 0.116 | 36.99 | -46.36 |

Table 7-5. Antenna BCM ERP/EIRP Data (LTE Band 12)

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] | EIRP [dBm] | EIRP [mW] | EIRP Limit [dBm] | Margin [dB] |
|-----------|---------|--------------------|--------------------|-------------------|--------------------------|-----------|----------|--------------------|----------------|---------------|-----------|---------------------|----------------|
| | 706.5 | -34.20 | 1 / 12 | 25.33 | -11.02 | 0.079 | 34.77 | -45.79 | -8.87 | 0.130 | 36.99 | -45.86 | |
| 5 MHz | QPSK | 710.0 | -34.20 | 1/0 | 25.34 | -11.01 | 0.079 | 34.77 | -45.78 | -8.86 | 0.130 | 36.99 | -45.85 |
| J IVITZ | | 713.5 | -34.20 | 1 / 12 | 25.50 | -10.85 | 0.082 | 34.77 | -45.62 | -8.70 | 0.135 | 36.99 | -45.69 |
| | 16-QAM | 710.0 | -34.20 | 1 / 12 | 25.12 | -11.23 | 0.075 | 34.77 | -46.00 | -9.08 | 0.124 | 36.99 | -46.07 |
| | | 709.0 | -34.20 | 1 / 25 | 25.32 | -11.03 | 0.079 | 34.77 | -45.80 | -8.88 | 0.129 | 36.99 | -45.87 |
| 10 MHz | QPSK | 710.0 | -34.20 | 1 / 25 | 25.46 | -10.89 | 0.081 | 34.77 | -45.66 | -8.74 | 0.134 | 36.99 | -45.73 |
| IU MINZ | TO MINZ | 711.0 | -34.20 | 1/0 | 25.50 | -10.85 | 0.082 | 34.77 | -45.62 | -8.70 | 0.135 | 36.99 | -45.69 |
| | 16-QAM | 709.0 | -34.20 | 1 / 25 | 24.78 | -11.57 | 0.070 | 34.77 | -46.34 | -9.42 | 0.114 | 36.99 | -46.41 |

Table 7-6. Antenna BCM ERP/EIRP 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] | EIRP [dBm] | EIRP [mW] | EIRP Limit [dBm] | Margin [dB] |
|-----------|--------|--------------------|--------------------|-------------------|--------------------------|-----------|----------|--------------------|----------------|---------------|-----------|---------------------|----------------|
| | 779.5 | -31.20 | 1/0 | 25.32 | -8.03 | 0.157 | 34.77 | -42.80 | -5.88 | 0.258 | 36.99 | -42.87 | |
| 5 MHz | QPSK | 782.0 | -31.20 | 1 / 12 | 25.29 | -8.06 | 0.156 | 34.77 | -42.83 | -5.91 | 0.256 | 36.99 | -42.90 |
| J IVITIZ | | 784.5 | -31.20 | 1 / 24 | 25.50 | -7.85 | 0.164 | 34.77 | -42.62 | -5.70 | 0.269 | 36.99 | -42.69 |
| | 16-QAM | 779.5 | -31.20 | 1/0 | 25.06 | -8.29 | 0.148 | 34.77 | -43.06 | -6.14 | 0.243 | 36.99 | -43.13 |
| 10 MHz | QPSK | 782.0 | -31.20 | 1 / 25 | 25.50 | -7.85 | 0.164 | 34.77 | -42.62 | -5.70 | 0.269 | 36.99 | -42.69 |
| TO WITE | 16-QAM | 782.0 | -31.20 | 1 / 25 | 25.16 | -8.19 | 0.152 | 34.77 | -42.96 | -6.04 | 0.249 | 36.99 | -43.03 |

Table 7-5. Antenna BCM ERP/EIRP Data (LTE Band 13)

| FCC ID: BCG-A2475 | Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|------------------------|-----------------------------|---------------------------------------|------------------------------|
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| 1C2106070043-03-R1.BCG | 06-08-2021 - 08-04-2021 | Watch | Fage 103 01 120 |



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 > 2 x span / RBW
- 5. Detector = RMS
- 6. Trace mode = Average (Max Hold for pulsed emissions)
- 7. The trace was allowed to stabilize

| FCC ID: BCG-A2475 | Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|------------------------------|-----------------------------|---------------------------------------|------------------------------|
| Test Report S/N: Test Dates: | | EUT Type: | Page 104 of 120 |
| 1C2106070043-03-R1.BCG | 06-08-2021 - 08-04-2021 | Watch | Page 104 01 120 |



Test Setup

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

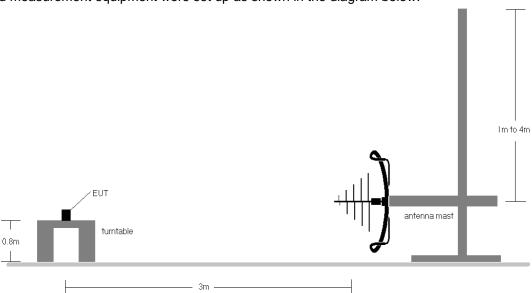


Figure 7-6. Test Instrument & Measurement Setup < 1GHz

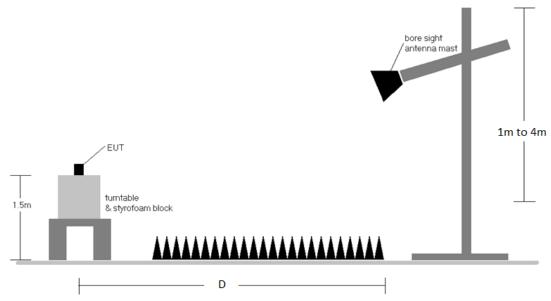


Figure 7-7. Test Instrument & Measurement Setup > 1GHz

| FCC ID: BCG-A2475 | Proud to be part of @ element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|------------------------|-------------------------------|---------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 105 of 120 |
| 1C2106070043-03-R1.BCG | 06-08-2021 - 08-04-2021 | Watch | Fage 103 01 120 |



Test Notes

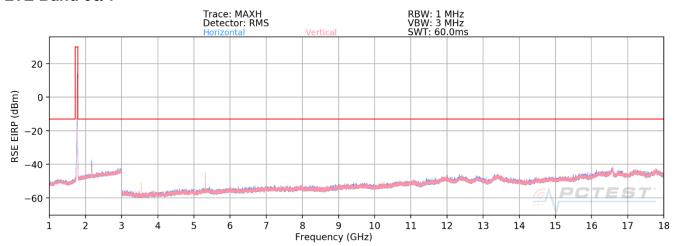
- 1. Field strengths are calculated using the Measurement quantity conversions in KDB 971168 Section 5.8.4.
 - a. E(dBµV/m) = Measured amplitude level (dBm) + 107 + Cable Loss (dB) + Antenna Factor (dB/m)
 - b. EIRP (dBm) = $E(dB\mu V/m) + 20logD 104.8$; where D is the measurement distance in meters.
- 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.

| FCC ID: BCG-A2475 | Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|------------------------|-----------------------------|---------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 106 of 120 |
| 1C2106070043-03-R1.BCG | 06-08-2021 - 08-04-2021 | Watch | Fage 100 01 120 |



7.7.1 Antenna CM – Radiated Spurious Emission Measurement

LTE Band 66/4



Plot 7-153. Antenna FCM Radiated Spurious Emission above 1GHz (LTE Band 66/4)

| FCC ID: BCG-A2475 | PCTEST° Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|------------------------------|-------------------------------------|---------------------------------------|------------------------------|
| Test Report S/N: Test Dates: | | EUT Type: | Page 107 of 120 |
| 1C2106070043-03-R1.BCG | 06-08-2021 - 08-04-2021 | Watch | Page 107 of 120 |



| Bandwidth (MHz): | 20 |
|------------------|--------|
| Frequency (MHz): | 1720.0 |
| RB / Offset: | 1 / 50 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|--------------------|---------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 3440.0 | Н | 342 | 108 | -76.10 | 4.17 | 35.07 | -60.18 | -13.00 | -47.18 |
| 5160.0 | Н | 122 | 12 | -67.21 | 7.21 | 47.00 | -48.26 | -13.00 | -35.26 |
| 6880.0 | Н | - | - | -81.93 | 9.52 | 34.59 | -60.67 | -13.00 | -47.67 |
| 8600.0 | Н | - | - | -84.08 | 10.91 | 33.83 | -61.43 | -13.00 | -48.43 |
| 10320.0 | Н | - | - | -83.68 | 12.95 | 36.27 | -58.99 | -13.00 | -45.99 |

Table 7-6. 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 [dBµV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|--------------------|---------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 3490.0 | Н | 114 | 133 | -74.54 | 4.22 | 36.68 | -58.57 | -13.00 | -45.57 |
| 5235.0 | Н | 102 | 17 | -71.71 | 8.08 | 43.37 | -51.89 | -13.00 | -38.89 |
| 6980.0 | Н | - | - | -82.02 | 9.63 | 34.61 | -60.65 | -13.00 | -47.65 |
| 8725.0 | Н | - | - | -83.73 | 10.83 | 34.10 | -61.15 | -13.00 | -48.15 |
| 10470.0 | Н | - | - | -83.58 | 13.11 | 36.53 | -58.73 | -13.00 | -45.73 |

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

| Bandwidth (MHz): | 20 |
|------------------|--------|
| Frequency (MHz): | 1770.0 |
| RB / Offset: | 1 / 50 |

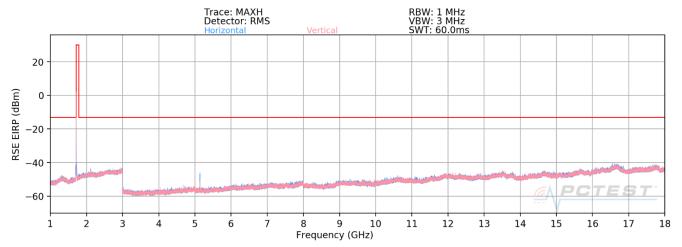
| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|--------------------|---------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 3540.00 | Н | 130 | 134 | -70.48 | 4.28 | 40.80 | -54.45 | -13.00 | -41.45 |
| 5310.00 | Н | 130 | 111 | -66.29 | 8.45 | 49.16 | -46.10 | -13.00 | -33.10 |
| 7080.00 | Н | - | - | -82.44 | 9.74 | 34.30 | -60.95 | -13.00 | -47.95 |
| 8850.00 | Н | - | - | -83.76 | 11.30 | 34.54 | -60.71 | -13.00 | -47.71 |
| 10620.00 | Н | - | - | -83.90 | 13.86 | 36.96 | -58.30 | -13.00 | -45.30 |

Table 7-8. Antenna FCM Radiated Spurious Data (LTE Band 66/4 – High Channel)

| FCC ID: BCG-A2475 | Proud to be part of @ element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|------------------------|-------------------------------|---------------------------------------|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 108 of 120 |
| 1C2106070043-03-R1.BCG | 06-08-2021 - 08-04-2021 | Watch | Fage 100 01 120 |



WCDMA AWS



Plot 7-154. Antenna FCM Radiated Spurious Emission above 1GHz (WCDMA AWS)

| FCC ID: BCG-A2475 | Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|------------------------|-----------------------------|---------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 109 of 120 |
| 1C2106070043-03-R1.BCG | 06-08-2021 - 08-04-2021 | Watch | rage 109 of 120 |



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

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|--------------------|---------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 3424.8 | Н | 101 | 162 | -78.83 | 2.28 | 30.45 | -64.81 | -13.00 | -51.81 |
| 5137.2 | Н | 101 | 150 | -68.21 | 5.12 | 43.91 | -51.35 | -13.00 | -38.35 |
| 6849.6 | Н | - | - | -83.29 | 8.82 | 32.53 | -62.73 | -13.00 | -49.73 |
| 8562.0 | Н | - | - | -84.20 | 9.85 | 32.65 | -62.61 | -13.00 | -49.61 |
| 10274.4 | Н | - | - | -83.87 | 14.16 | 37.29 | -57.96 | -13.00 | -44.96 |

7-9. Antenna FCM Radiated Spurious Data (WCDMA AWS – Low Channel)

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

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|--------------------|---------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 3465.2 | Н | 134 | 349 | -78.16 | 4.36 | 33.20 | -62.05 | -13.00 | -49.05 |
| 5197.8 | Н | 106 | 86 | -77.26 | 7.52 | 37.26 | -57.99 | -13.00 | -44.99 |
| 6930.4 | Н | - | - | -81.70 | 9.29 | 34.59 | -60.67 | -13.00 | -47.67 |
| 8663.0 | Н | - | - | -83.72 | 11.26 | 34.54 | -60.72 | -13.00 | -47.72 |
| 10395.6 | Н | - | - | -83.78 | 12.76 | 35.98 | -59.27 | -13.00 | -46.27 |

Table 7-10. Antenna FCM Radiated Spurious Data (WCDMA AWS – Mid Channel)

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

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|--------------------|---------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 3505.2 | Н | 269 | 180 | -76.94 | 4.21 | 34.27 | -60.99 | -13.00 | -47.99 |
| 5257.8 | Н | 121 | 105 | -74.85 | 8.34 | 40.49 | -54.76 | -13.00 | -41.76 |
| 7010.4 | Н | - | - | -83.48 | 9.67 | 33.19 | -62.07 | -13.00 | -49.07 |
| 8763.0 | Н | - | - | -84.40 | 10.95 | 33.55 | -61.70 | -13.00 | -48.70 |
| 10515.6 | Н | - | - | -84.91 | 13.60 | 35.69 | -59.57 | -13.00 | -46.57 |

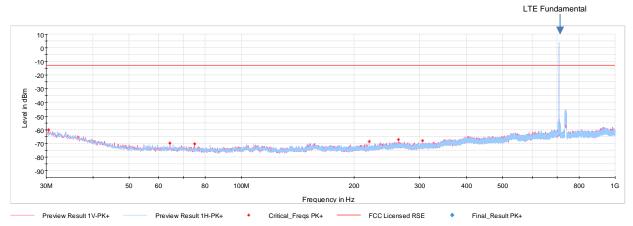
Table 7-11. Antenna FCM Radiated Spurious Data (WCDMA AWS – High Channel)

| FCC ID: BCG-A2475 | Proud to be part of @ element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|------------------------|-------------------------------|---------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 110 of 120 |
| 1C2106070043-03-R1.BCG | 06-08-2021 - 08-04-2021 | Watch | Fage 110 01 120 |

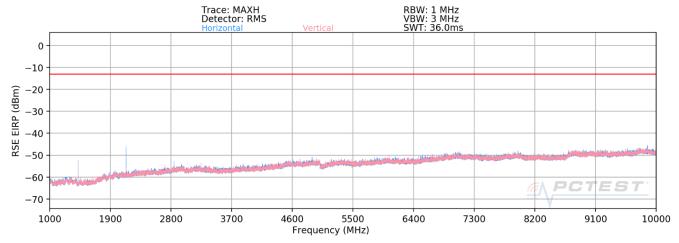


7.7.2 Antenna BCM – Radiated Spurious Emission Measurement

LTE Band 12/17



Plot 7-155. Antenna BCM Radiated Spurious Emission below 1HGz (LTE Band 12/17)



Plot 7-156. Antenna BCM Radiated Spurious Emission above 1GHz (LTE Band 12/17)

| FCC ID: BCG-A2475 | Proud to be part of @ element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|------------------------|-------------------------------|---------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 111 of 120 |
| 1C2106070043-03-R1.BCG | 06-08-2021 - 08-04-2021 | Watch | Fage 111 01 120 |



| Bandwidth (MHz): | 10 |
|------------------|--------|
| Frequency (MHz): | 704.0 |
| RB / Offset: | 1 / 25 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|--------------------|---------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 1408.0 | Н | 166 | 271 | -67.73 | -3.56 | 35.71 | -59.55 | -13.00 | -46.55 |
| 2112.0 | Н | 162 | 203 | -74.71 | 0.75 | 33.04 | -62.22 | -13.00 | -49.22 |
| 2816.0 | Н | - | - | -78.90 | 2.60 | 30.70 | -64.56 | -13.00 | -51.56 |
| 3520.0 | Н | - | - | -79.30 | 3.51 | 31.21 | -64.05 | -13.00 | -51.05 |
| 4224.0 | Н | - | - | -80.54 | 5.31 | 31.77 | -63.49 | -13.00 | -50.49 |

Table 7-12. 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 [dBµV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|--------------------|---------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 1415.0 | Н | 102 | 269 | -67.96 | -3.55 | 35.49 | -59.76 | -13.00 | -46.76 |
| 2122.5 | Н | 117 | 5 | -72.80 | 0.67 | 34.87 | -60.39 | -13.00 | -47.39 |
| 2830.0 | Н | 102 | 152 | -77.58 | 2.65 | 32.07 | -63.19 | -13.00 | -50.19 |
| 3537.5 | Н | - | - | -79.87 | 3.85 | 30.98 | -64.28 | -13.00 | -51.28 |
| 4245.0 | Н | - | - | -80.61 | 5.19 | 31.58 | -63.68 | -13.00 | -50.68 |
| 4952.5 | Н | - | - | -80.98 | 6.33 | 32.35 | -62.90 | -13.00 | -49.90 |

Table 7-13. Antenna BCM Radiated Spurious Data (LTE Band 12/17 - Mid Channel)

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

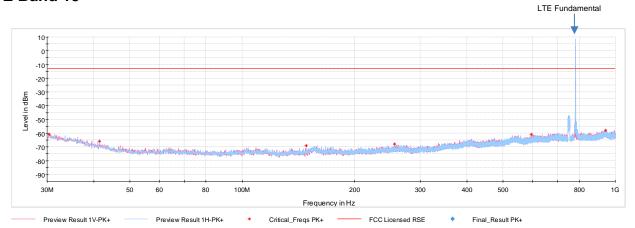
| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|--------------------|---------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 1422.0 | Н | 207 | 267 | -68.43 | -3.56 | 35.01 | -60.25 | -13.00 | -47.25 |
| 2133.0 | Н | 121 | 21 | -71.53 | 0.58 | 36.05 | -59.21 | -13.00 | -46.21 |
| 2844.0 | Н | - | - | -78.37 | 2.74 | 31.37 | -63.88 | -13.00 | -50.88 |
| 3555.0 | Н | - | - | -79.73 | 3.88 | 31.15 | -64.11 | -13.00 | -51.11 |
| 4266.0 | Н | _ | _ | -80.31 | 5.08 | 31.77 | -63.48 | -13.00 | -50.48 |

Table 7-14. Antenna BCM Radiated Spurious Data (LTE Band 12/17 – High Channel)

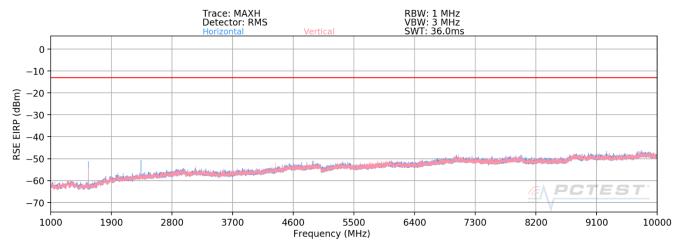
| FCC ID: BCG-A2475 | Proud to be part of @ element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|------------------------|-------------------------------|---------------------------------------|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 112 of 120 |
| 1C2106070043-03-R1.BCG | 06-08-2021 – 08-04-2021 | Watch | Fage 112 01 120 |



LTE Band 13



Plot 7-157. Antenna BCM Radiated Spurious Emission below 1GHz (LTE Band 13)



Plot 7-158. Antenna BCM Radiated Spurious Emission above 1GHz (LTE Band 13)

| FCC ID: BCG-A2475 | Proud to be part of @ element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|------------------------|-------------------------------|---------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 113 of 120 |
| 1C2106070043-03-R1.BCG | 06-08-2021 - 08-04-2021 | Watch | Fage 113 01 120 |



| Bandwidth (MHz): | 5 |
|------------------|--------|
| Frequency (MHz): | 779.5 |
| RB / Offset: | 1 / 12 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|--------------------|---------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 1559.0 | Н | 117 | 252 | -67.94 | -2.90 | 36.16 | -59.10 | -40.00 | -19.10 |
| 2338.5 | Н | 121 | 326 | -71.86 | 1.50 | 36.64 | -58.62 | -13.00 | -45.62 |
| 3118.0 | V | 187 | 353 | -79.31 | 3.60 | 31.29 | -63.97 | -13.00 | -50.97 |
| 3897.5 | Н | - | - | -80.37 | 4.62 | 31.25 | -64.01 | -13.00 | -51.01 |
| 4677.0 | Н | - | - | -80.74 | 6.13 | 32.39 | -62.86 | -13.00 | -49.86 |
| 5456.5 | Н | - | - | -81.26 | 7.52 | 33.26 | -61.99 | -13.00 | -48.99 |

Table 7-15. 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 [dBµV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|--------------------|---------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 1564.0 | Н | 121 | 273 | -69.26 | -2.97 | 34.77 | -60.48 | -40.00 | -20.48 |
| 2346.0 | Н | 114 | 291 | -73.38 | 1.49 | 35.11 | -60.15 | -13.00 | -47.15 |
| 3128.0 | Н | - | - | -79.44 | 3.78 | 31.34 | -63.92 | -13.00 | -50.92 |
| 3910.0 | Н | - | - | -80.23 | 4.57 | 31.34 | -63.91 | -13.00 | -50.91 |
| 4692.0 | Н | - | - | -80.48 | 6.13 | 32.65 | -62.61 | -13.00 | -49.61 |

Table 7-16. Antenna BCM Radiated Spurious Data (LTE Band 13 – Mid Channel)

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

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|--------------------|---------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| 1569.0 | Н | 215 | 234 | -68.76 | -3.03 | 35.21 | -60.04 | -40.00 | -20.04 |
| 2353.5 | Н | 139 | 294 | -71.35 | 1.46 | 37.11 | -58.15 | -13.00 | -45.15 |
| 3138.0 | V | 110 | 323 | -78.08 | 3.79 | 32.71 | -62.54 | -13.00 | -49.54 |
| 3922.5 | Н | - | - | -80.06 | 4.51 | 31.45 | -63.81 | -13.00 | -50.81 |
| 4707.0 | Н | - | - | -80.57 | 6.02 | 32.45 | -62.81 | -13.00 | -49.81 |
| 5491.5 | Н | - | - | -81.44 | 7.23 | 32.79 | -62.47 | -13.00 | -49.47 |

Table 7-17. Antenna BCM Radiated Spurious Data (LTE Band 13 – High Channel)

| FCC ID: BCG-A2475 | Proud to be part of @ element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|------------------------|-------------------------------|---------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 114 of 120 |
| 1C2106070043-03-R1.BCG | 06-08-2021 - 08-04-2021 | Watch | Fage 114 01 120 |



7.8 Frequency Stability / Temperature Variation §2.1053, §27.53

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015 and TIA-603-E-2016. The frequency stability of the transmitter is measured by:

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

For Part 27, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Procedure Used

ANSI C63.26 2015

TIA-603-E-2016

Test Settings

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

Test Setup

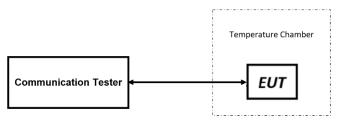


Figure 7-8. Test Instrument & Measurement Setup

Test Notes

None.

| FCC ID: BCG-A2475 | Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|------------------------|-----------------------------|---------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 115 of 120 |
| 1C2106070043-03-R1.BCG | 06-08-2021 - 08-04-2021 | Watch | Fage 113 01 120 |



| LTE Band | 1 66/4 | | | | | | |
|------------------|-------------|------------------|-------------------|--------------------|------------------------|-------------------------|---------------|
| | Low Ch | nannel Frequenc | cy (Hz): | | 1,720,000,000 | | |
| | High Cl | hannel Frequenc | cy (Hz): | | 1,770,000,000 | | |
| | Re | ef. Voltage (VD0 | C): | | 3.80 | | |
| , | | | | | | | |
| Voltage (%) | Power (VDC) | Temp (°C) | Low Freq. (Hz) | High Freq. (Hz) | Low Freq. Dev. (Hz) | High Freq. Dev. (Hz) | Deviation (%) |
| | | - 30 | 1,720,000,000 | 1,769,999,999 | -0.19 | -1.24 | -0.0000001 |
| | | - 20 | 1,720,000,000 | 1,770,000,001 | -0.89 | 0.67 | -0.0000001 |
| | | - 10 | 1,720,000,000 | 1,770,000,000 | -0.94 | 0.09 | -0.0000001 |
| | | 0 | 1,720,000,000 | 1,770,000,000 | -0.72 | 0.24 | 0.0000000 |
| 100 % | 3.80 | + 10 | 1,719,999,999 | 1,769,999,999 | -1.10 | -0.62 | -0.0000001 |
| | | + 20 (Ref) | 1,720,000,001 | 1,770,000,000 | 0.00 | 0.00 | 0.0000000 |
| | | + 30 | 1,720,000,000 | 1,770,000,001 | -0.37 | 0.62 | 0.0000000 |
| | + 40 | 1,720,000,000 | 1,770,000,000 | -0.86 | 0.36 | 0.0000000 | |
| | | + 50 | 1,720,000,000 | 1,770,000,000 | -0.43 | -0.36 | 0.0000000 |
| Battery Endpoint | 3.40 | + 20 | 1,720,000,000 | 1,769,999,999 | -0.96 | -0.72 | -0.0000001 |

Table 7-18. LTE Band 66/4 Frequency Stability Data

| FCC ID: BCG-A2475 | Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|------------------------|-----------------------------|---------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 116 of 120 |
| 1C2106070043-03-R1.BCG | 06-08-2021 - 08-04-2021 | Watch | rage 110 of 120 |



| LTE Band | 12/17 | | | | | | |
|------------------|-------------|------------------|-------------------|--------------------|------------------------|-------------------------|---------------|
| | Low Ch | nannel Frequenc | y (Hz): | | 704,000,000 | | |
| | High Cl | hannel Frequenc | cy (Hz): | | 711,000,000 | | |
| | Re | ef. Voltage (VD0 | C): | | 3.80 | | |
| | | | | | | | |
| Voltage (%) | Power (VDC) | Temp (°C) | Low Freq. (Hz) | High Freq. (Hz) | Low Freq. Dev. (Hz) | High Freq. Dev. (Hz) | Deviation (%) |
| | | - 30 | 704,000,003 | 711,000,002 | 1.20 | 1.09 | 0.0000002 |
| | | - 20 | 704,000,003 | 711,000,001 | 1.27 | 0.43 | 0.0000002 |
| | | - 10 | 704,000,003 | 711,000,002 | 1.12 | 0.66 | 0.0000002 |
| | | 0 | 704,000,003 | 711,000,002 | 1.44 | 0.99 | 0.0000002 |
| 100 % | 3.80 | + 10 | 704,000,002 | 711,000,001 | 0.94 | 0.31 | 0.0000001 |
| | | + 20 (Ref) | 704,000,002 | 711,000,001 | 0.00 | 0.00 | 0.0000000 |
| | | + 30 | 704,000,003 | 711,000,001 | 1.00 | 0.20 | 0.0000001 |
| | | + 40 | 704,000,003 | 711,000,002 | 1.09 | 1.19 | 0.0000002 |
| | | + 50 | 704,000,001 | 711,000,001 | -0.36 | 0.36 | 0.0000000 |
| Battery Endpoint | 3.40 | + 20 | 704,000,002 | 711,000,002 | 0.33 | 0.72 | 0.0000000 |

Table 7-21. LTE Band 12/17 Frequency Stability Data

| FCC ID: BCG-A2475 | Proud to be part of element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|------------------------|-----------------------------|---------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 117 of 120 |
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| LTE Band | 113 | | | | | | |
|------------------|-------------|------------------|-------------------|--------------------|------------------------|-------------------------|---------------|
| | Low Ch | nannel Frequenc | y (Hz): | | 779,500,000 | | |
| | High Cl | hannel Frequenc | cy (Hz): | | 784,500,000 | | |
| | Re | ef. Voltage (VDC | C): | | 3.80 | |] |
| | | | | | | | • |
| Voltage (%) | Power (VDC) | Temp (°C) | Low Freq. (Hz) | High Freq. (Hz) | Low Freq. Dev. (Hz) | High Freq. Dev. (Hz) | Deviation (%) |
| | | - 30 | 779,500,007 | 784,500,007 | 7.00 | 7.00 | 0.0000009 |
| | | - 20 | 779,500,006 | 784,500,006 | 6.00 | 6.00 | 8000000.0 |
| | | - 10 | 779,500,007 | 784,500,003 | 7.00 | 3.00 | 0.0000009 |
| | | 0 | 779,500,003 | 784,500,002 | 3.00 | 2.00 | 0.0000004 |
| 100 % | 3.80 | + 10 | 779,500,003 | 784,500,003 | 3.00 | 3.00 | 0.0000004 |
| | | + 20 (Ref) | 779,500,000 | 784,500,000 | 0.00 | 0.00 | 0.0000000 |
| | | + 30 | 779,500,007 | 784,500,003 | 7.00 | 3.00 | 0.0000009 |
| | | + 40 | 779,500,007 | 784,500,003 | 7.00 | 3.00 | 0.0000009 |
| | | + 50 | 779,500,008 | 784,500,004 | 8.00 | 4.00 | 0.0000005 |
| Battery Endpoint | 3.40 | + 20 | 779,500,006 | 784,500,003 | 6.00 | 3.00 | 0.0000004 |

Table 7-22. LTE Band 13 Frequency Stability Data

| FCC ID: BCG-A2475 | PCTEST* Proud to be part of @ element (CERTIFICATION) | | Approved by: Quality Manager |
|------------------------|--|-----------|------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 118 of 120 |
| 1C2106070043-03-R1.BCG | 06-08-2021 - 08-04-2021 | Watch | rage 110 01 120 |



| WCDMA A | AWS | | | | | | |
|------------------|------------------------------|------------|-------------------|--------------------|------------------------|-------------------------|------------------|
| | Low Channel Frequency (Hz): | | | 1,712,400,000 | | | |
| | High Channel Frequency (Hz): | | | 1,752,600,000 | | | |
| | Ref. Voltage (VDC): | | | 3.80 | | | |
| | | | | | | | |
| Voltage (%) | Power (VDC) | Temp (°C) | Low Freq. (Hz) | High Freq. (Hz) | Low Freq. Dev. (Hz) | High Freq. Dev. (Hz) | Deviation (%) |
| | | - 30 | 1,712,400,000 | 1,752,600,000 | 0.57 | 0.02 | 0.0000000 |
| | | - 20 | 1,712,400,000 | 1,752,600,003 | 0.30 | 2.92 | 0.0000002 |
| | | - 10 | 1,712,400,000 | 1,752,600,003 | 0.13 | 2.76 | 0.0000002 |
| 100 % | 3.80 | 0 | 1,712,399,996 | 1,752,600,001 | -4.07 | 0.26 | -0.0000002 |
| | | + 10 | 1,712,400,000 | 1,752,600,004 | 0.16 | 3.43 | 0.0000002 |
| | | + 20 (Ref) | 1,712,400,000 | 1,752,600,000 | 0.00 | 0.00 | 0.0000000 |
| | | + 30 | 1,712,400,002 | 1,752,600,000 | 2.22 | 0.14 | 0.0000001 |
| | | + 40 | 1,712,400,000 | 1,752,599,995 | 0.29 | -5.65 | -0.0000003 |
| | | + 50 | 1,712,400,010 | 1,752,600,000 | 9.73 | 0.16 | 0.0000006 |
| Battery Endpoint | 3.40 | + 20 | 1,712,400,000 | 1,752,600,001 | 0.55 | 1.13 | 0.0000001 |

Table 7-23. WCDMA AWS Frequency Stability Data

| FCC ID: BCG-A2475 | Proud to be part of @ element | in Extended the order | |
|------------------------|-------------------------------|-----------------------|-----------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 119 of 120 |
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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-A2475** complies with all the requirements of Part 27 of the FCC rules.

| FCC ID: BCG-A2475 | PCTEST* MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager | |
|------------------------|--|-----------|------------------------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Page 120 of 120 | |
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