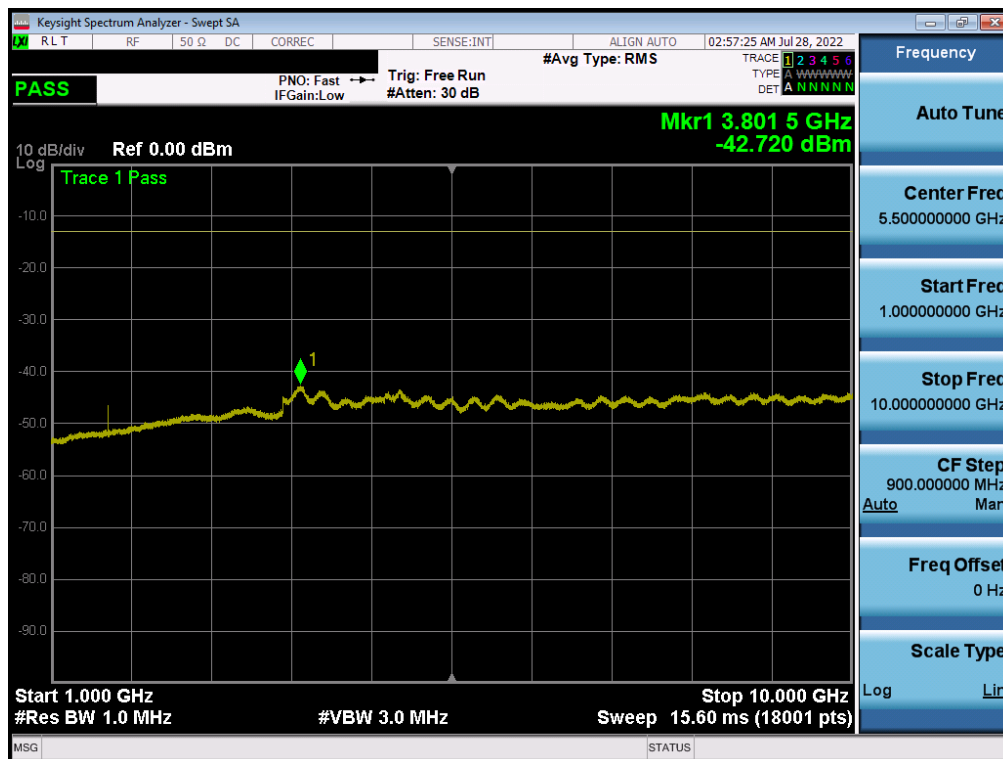
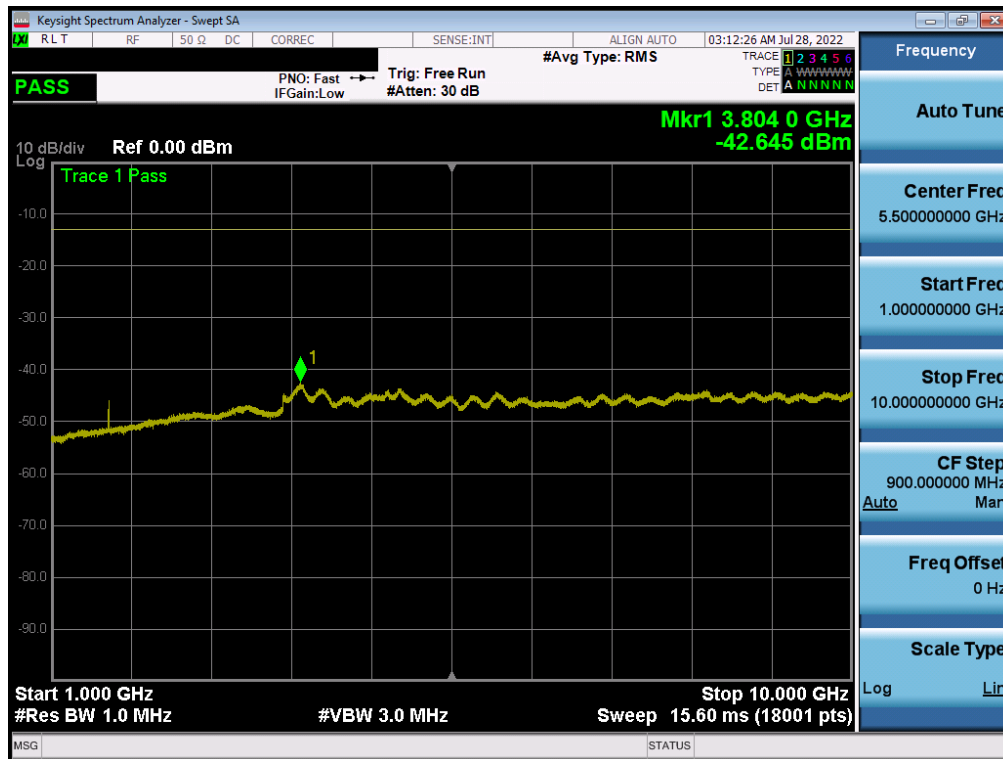


Plot 7-76. Conducted Spurious Plot (NR Band n26 - 10MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 – Mid Channel)

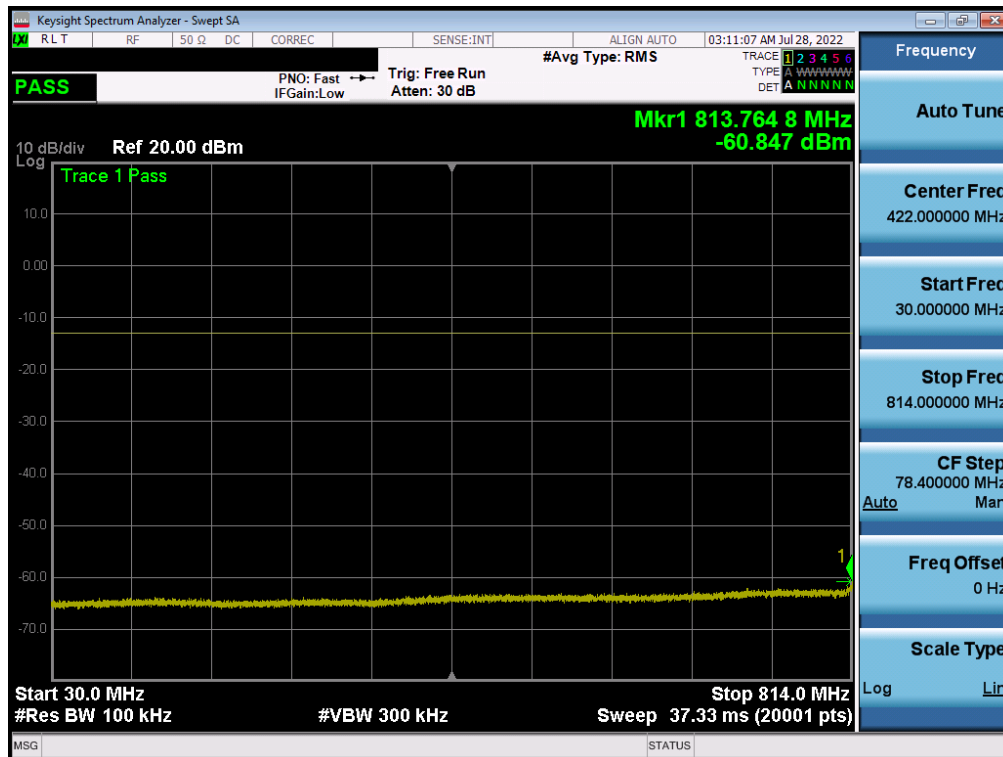


Plot 7-77. Conducted Spurious Plot (NR Band n26 - 10MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 – Mid Channel)


| | | | |
|---|--|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 | element | PART 90 MEASUREMENT REPORT | Approved by: Technical Manager |
| Test Report S/N: 1C2205090025-09.BCG | Test Dates: 05/30/2022 - 09/09/2022 | EUT Type: Tablet Device | Page 55 of 101 |

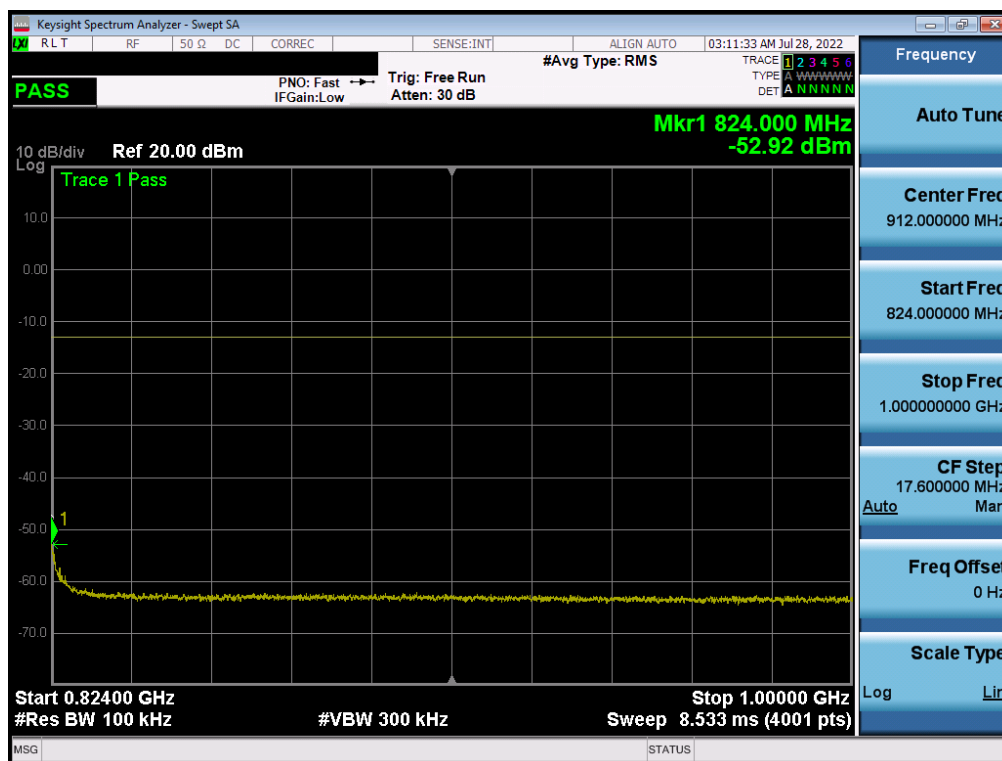


Plot 7-78. Conducted Spurious Plot (NR Band n26 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - High Channel)



Plot 7-79. Conducted Spurious Plot (NR Band n26 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - High Channel)

| | | | |
|---|---|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 |  PART 90 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1C2205090025-09.BCG | Test Dates: 05/30/2022 - 09/09/2022 | EUT Type: Tablet Device | Page 56 of 101 |



Plot 7-80. Conducted Spurious Plot (NR Band n26 - 5MHz DFT-s-OFDM QPSK - RB Size 1, RB Offset 0 - High Channel)

| | | | |
|---|--|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 | element | PART 90 MEASUREMENT REPORT | Approved by: Technical Manager |
| Test Report S/N: 1C2205090025-09.BCG | Test Dates: 05/30/2022 - 09/09/2022 | EUT Type: Tablet Device | Page 57 of 101 |

7.4 Band Edge Emissions at Antenna Terminal

§2.1051 §90(S).691(a) §90(R).543(e)

Test Overview

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates 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. All ports were tested and only the worst case data were reported.

For LTE B26 operation under Part 90.691, the minimum permissible attenuation level of any spurious emission removed from the EA licensee's frequency block by greater than 37.5 kHz is $43 + 10\log_{10}(P_{\text{Watts}})$, where P is the transmitter power in Watts. The minimum permissible attenuation level of any spurious emission removed from the EA licensee's frequency block by up to and including 37.5 kHz is $50 + 10\log_{10}(P_{\text{Watts}})$, where P is the transmitter power in Watts.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 6.0

Test Settings

1. Span was set large enough so as to capture all out of band emissions near the band edge
2. RBW = 100 kHz
3. VBW = 300 kHz
4. Detector = RMS
5. Trace mode = trace average
6. Sweep time = auto couple
7. The trace was allowed to stabilize

Test Setup

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

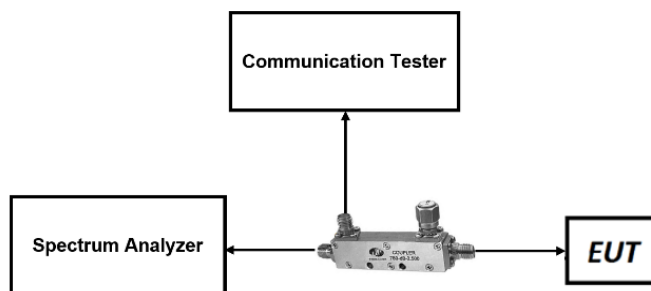




Figure 7-3. Test Instrument & Measurement Setup

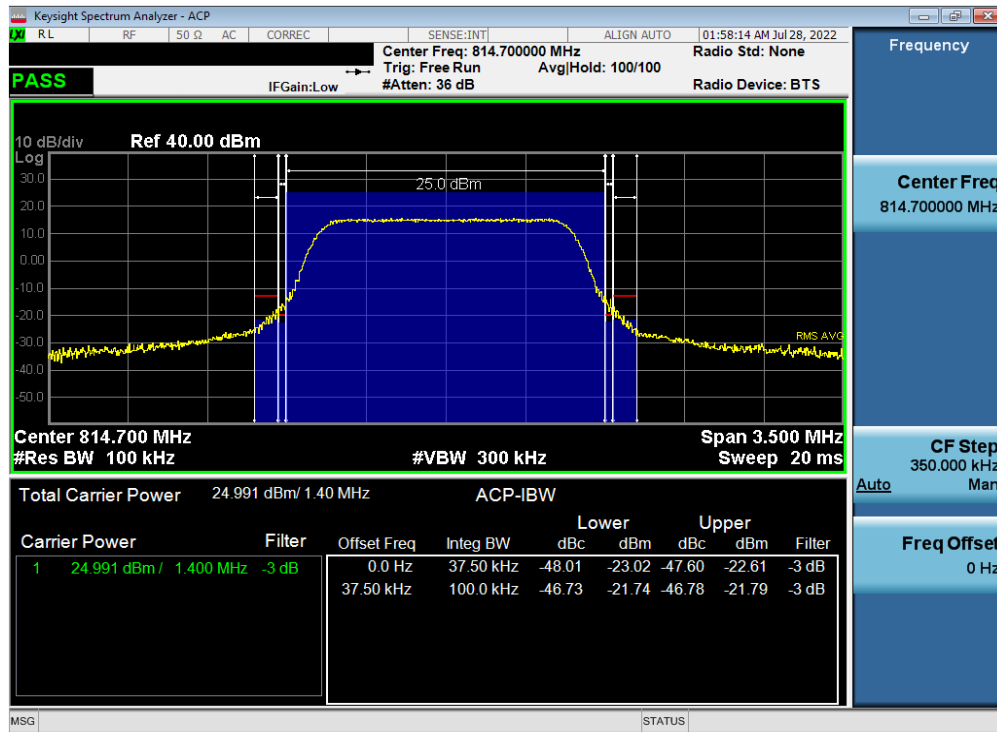
| | | |
|---|---|-----------------------------------|
| FCC ID: BCGA2435 |  PART 90 MEASUREMENT REPORT | Approved by: Technical Manager |
| Test Report S/N: 1C2205090025-09.BCG | Test Dates: 05/30/2022 - 09/09/2022 | EUT Type: Tablet Device |

Test Notes

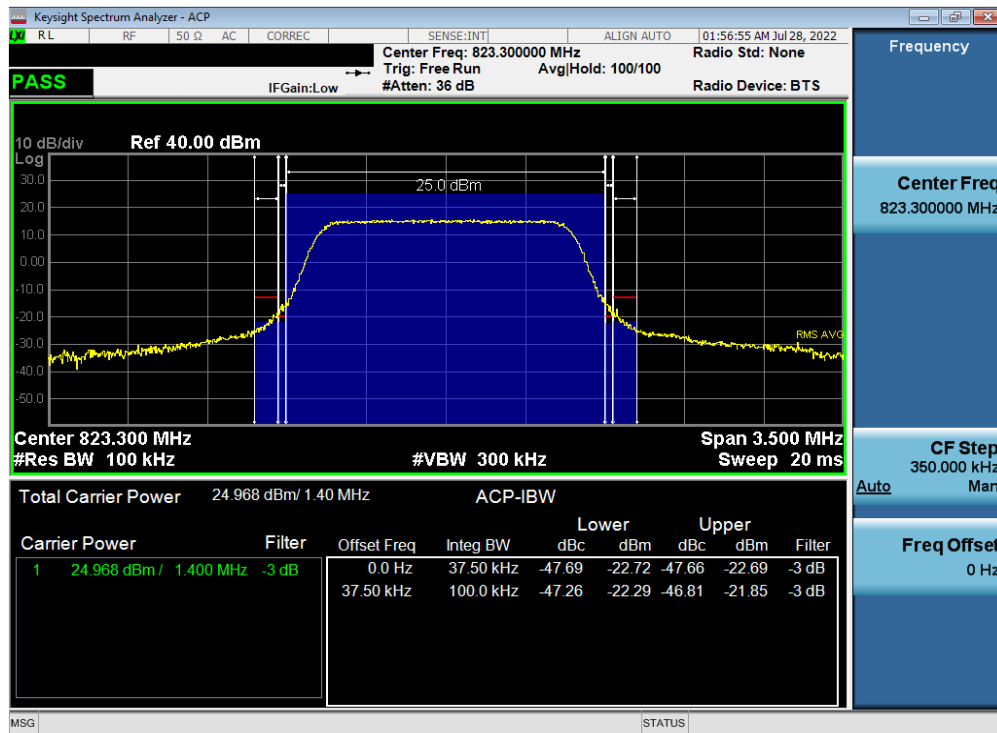
1. For channel edge emission, the signal analyzer's "ACP" measurement capability is used.
2. Per Part 90, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of 30 kHz may be employed to demonstrate compliance with the out-of-band emissions limit. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center.
3. For LTE Band 14 and NR Band n14 operations under Part 90.543, the power of any emission must be reduced below the mean output power (P) by at least $43 + 10\log(P)$ dB measured in a 100 kHz bandwidth for frequencies less than 1 GHz, and in a 1 MHz bandwidth for frequencies greater than 1 GHz.
4. Additionally, for LTE Band 14 and NR Band n14 operations, on all frequencies between 769-775 MHz and 799-805 MHz, the power of any emission shall be attenuated by a factor not less than $65 + 10 \log(P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.

| | | | |
|--|---|-----------------------------------|--|
| FCC ID: BCGA2435 |  PART 90 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1C2205090025-09.BCG | Test Dates: 05/30/2022 - 09/09/2022 | EUT Type: Tablet Device | Page 59 of 101 |


LTE Band 26

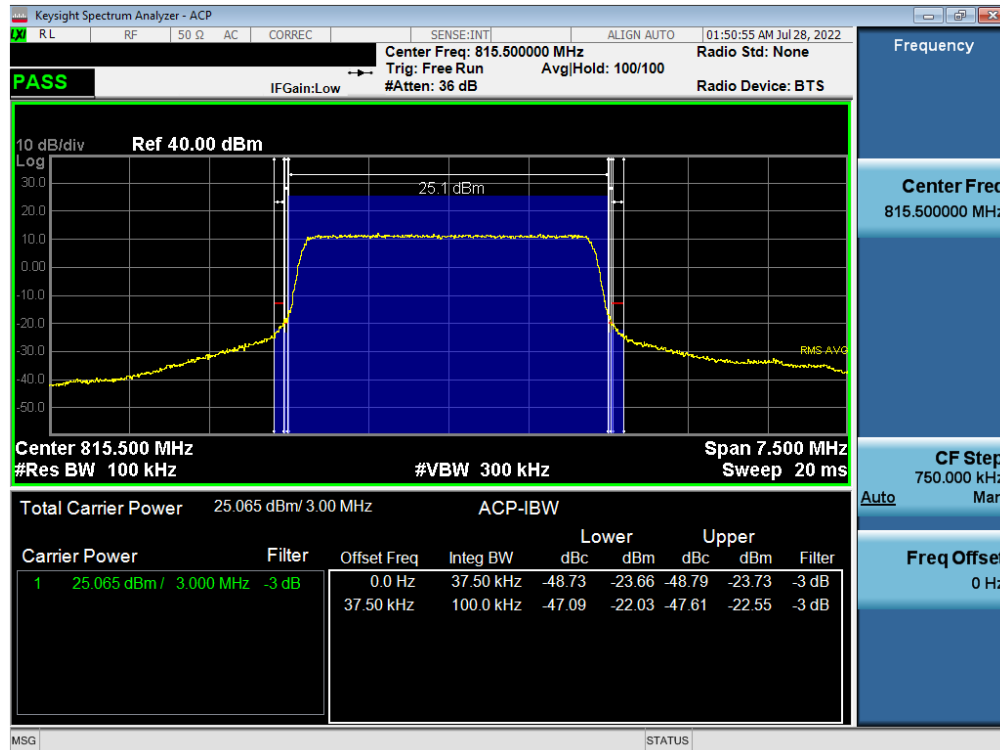


Plot 7-81. Channel Edge Plot (LTE Band 26 - 1.4MHz QPSK - Low Channel)

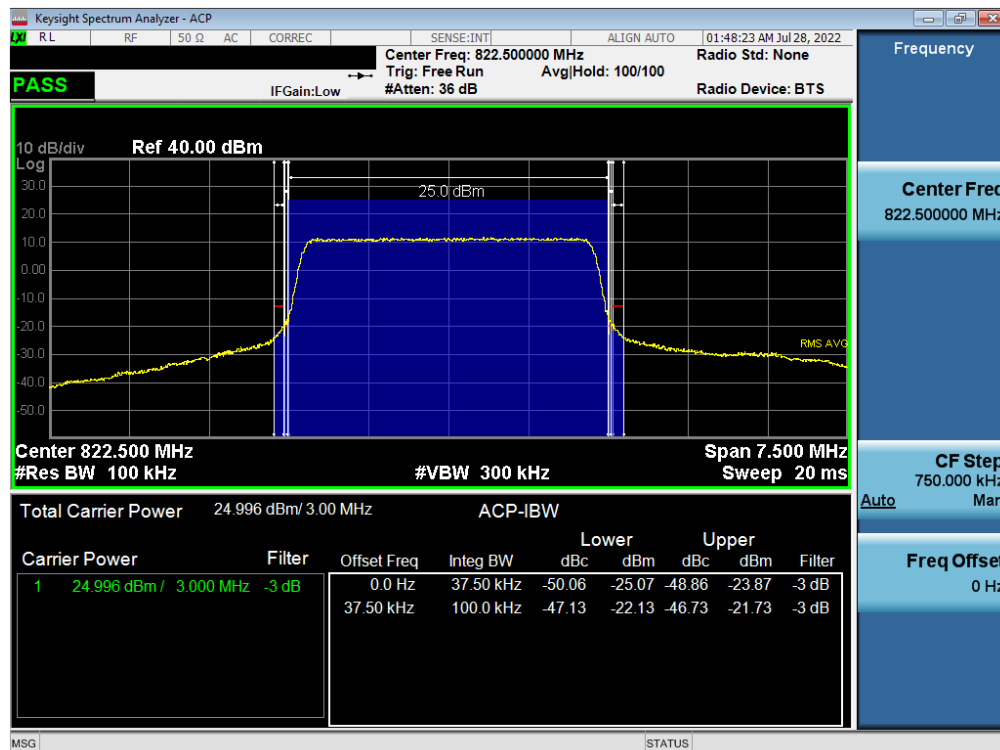


Plot 7-82. Channel Edge Plot (LTE Band 26 - 1.4MHz QPSK - High Channel)

| | | | |
|---|---|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 |  | PART 90 MEASUREMENT REPORT | Approved by: Technical Manager |
| Test Report S/N: 1C2205090025-09.BCG | Test Dates: 05/30/2022 - 09/09/2022 | EUT Type: Tablet Device | Page 60 of 101 |

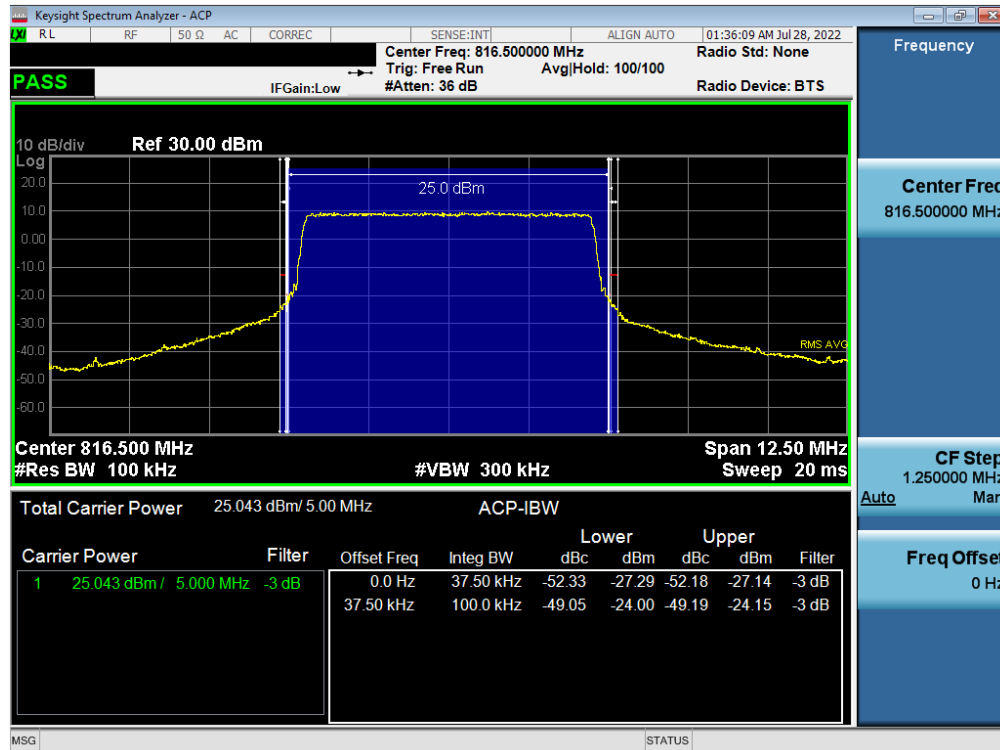


Plot 7-83. Channel Edge Plot (LTE Band 26 - 3MHz QPSK - Low Channel)

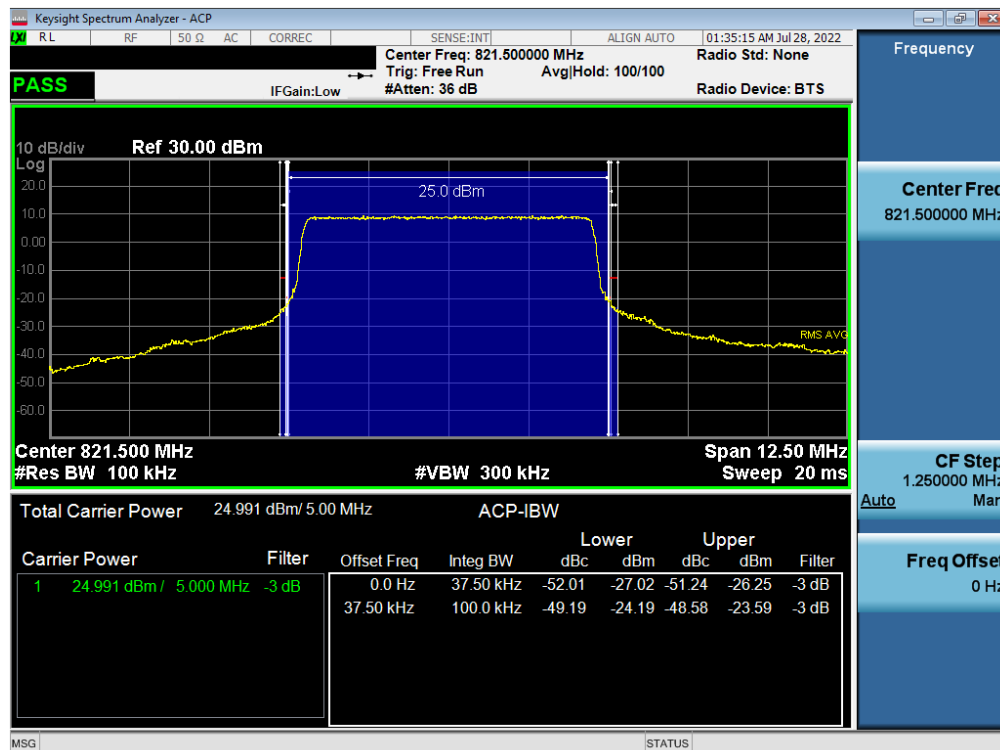


Plot 7-84. Channel Edge Plot (LTE Band 26 - 3MHz QPSK - High Channel)

| | | | |
|---|--|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 | PART 90 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1C2205090025-09.BCG | Test Dates: 05/30/2022 - 09/09/2022 | EUT Type: Tablet Device | Page 61 of 101 |

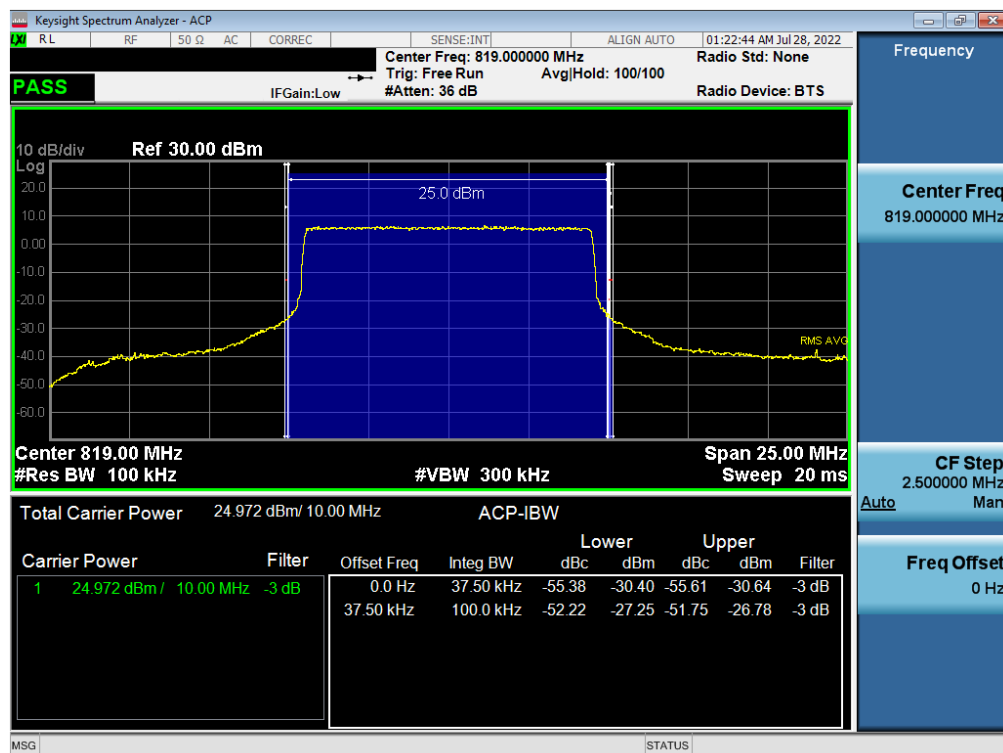


Plot 7-85. Channel Edge Plot (LTE Band 26 - 5MHz QPSK - Low Channel)



Plot 7-86. Channel Edge Plot (LTE Band 26 - 5MHz QPSK - High Channel)

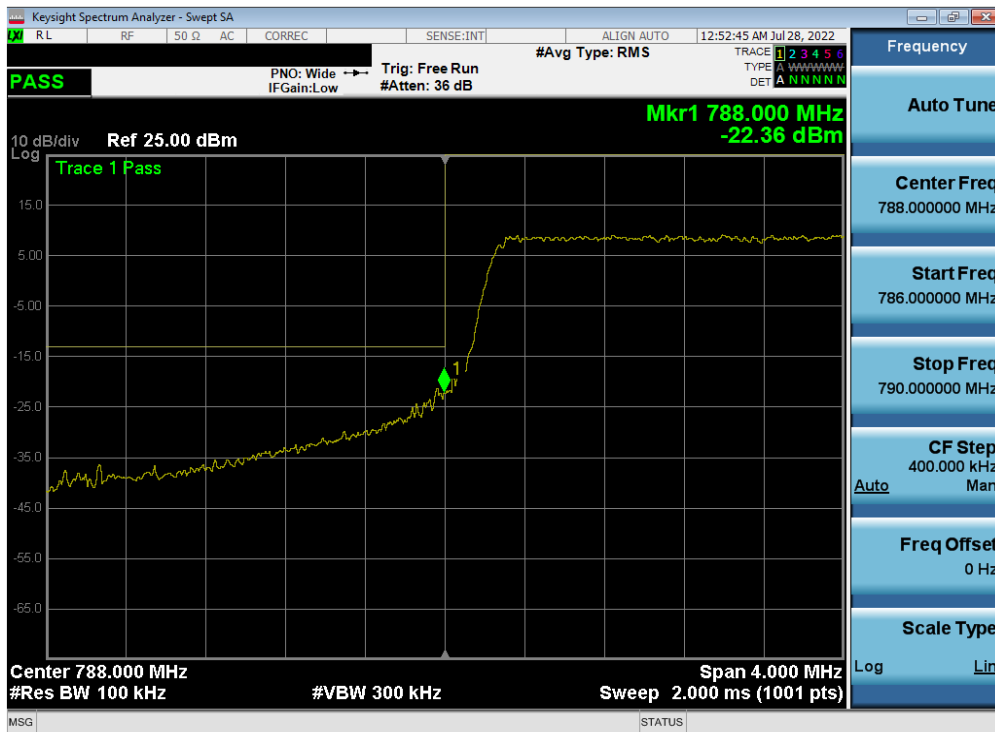
| | | | |
|---|--|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 | element | PART 90 MEASUREMENT REPORT | Approved by: Technical Manager |
| Test Report S/N: 1C2205090025-09.BCG | Test Dates: 05/30/2022 - 09/09/2022 | EUT Type: Tablet Device | Page 62 of 101 |



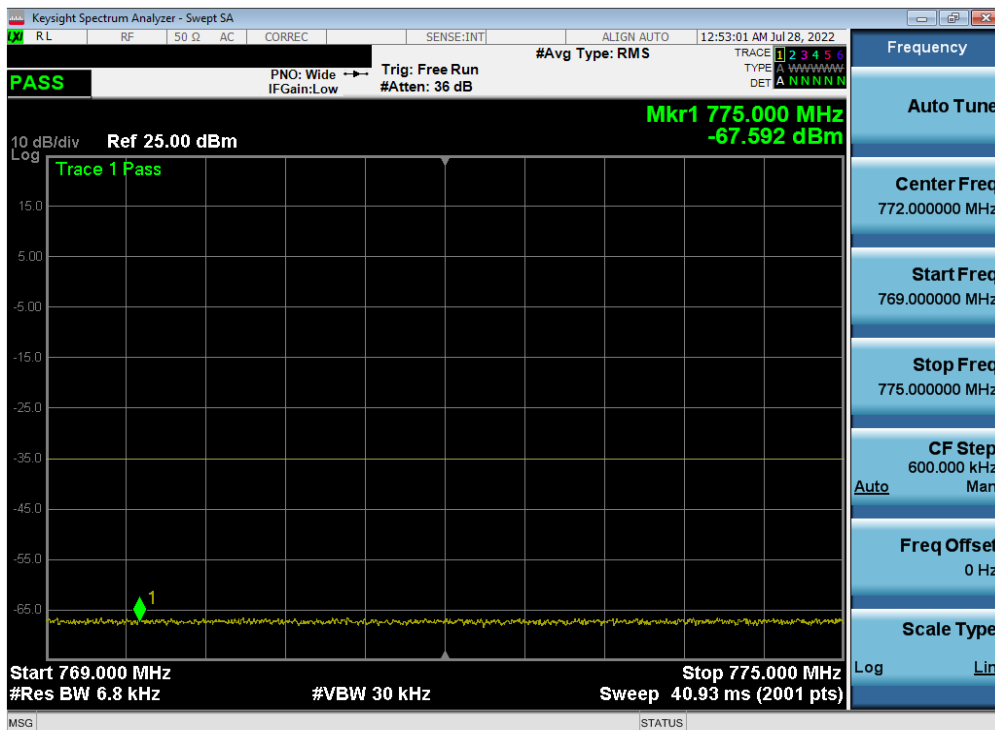
Plot 7-87. Channel Edge Plot (LTE Band 26 - 10MHz QPSK - Mid Channel)

| | | | |
|---|--|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 | PART 90 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1C2205090025-09.BCG | Test Dates: 05/30/2022 - 09/09/2022 | EUT Type: Tablet Device | Page 63 of 101 |


LTE Band 14



Plot 7-88. Lower Band Edge Plot (LTE Band 14, 5MHz QPSK - RB Size 25)



Plot 7-89. Lower Emission Mask Plot (LTE Band 14, 5MHz QPSK - RB Size 25)

| | | | |
|---|---|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 |  | PART 90 MEASUREMENT REPORT | Approved by: Technical Manager |
| Test Report S/N: 1C2205090025-09.BCG | Test Dates: 05/30/2022 - 09/09/2022 | EUT Type: Tablet Device | Page 64 of 101 |

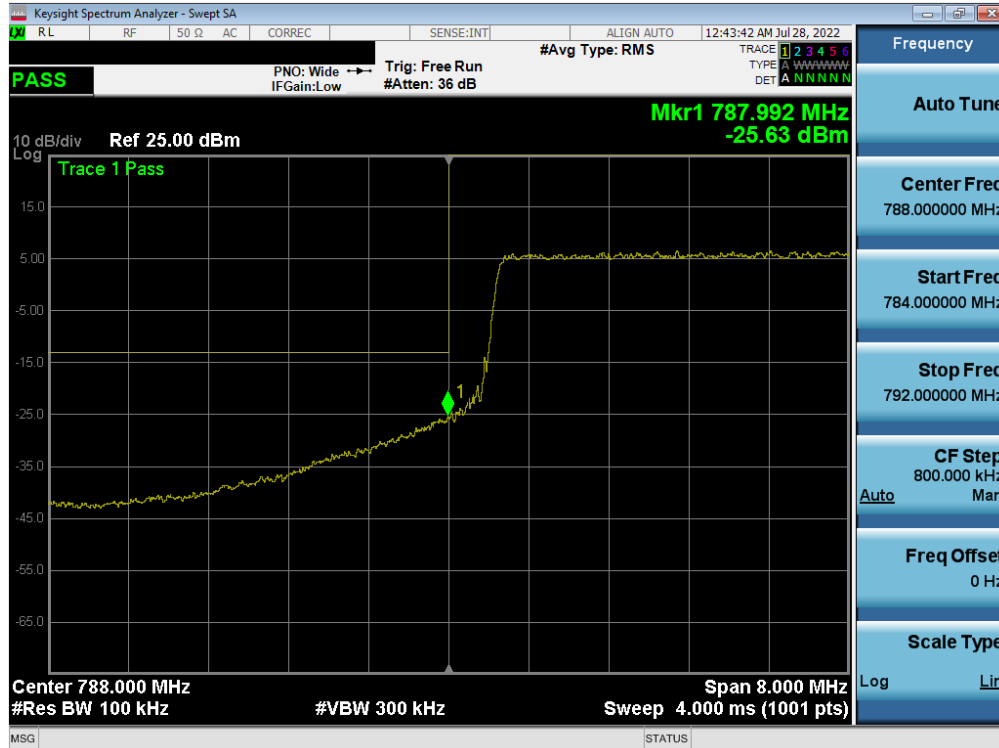


Plot 7-90. Upper Band Edge Plot (LTE Band 14, 5MHz QPSK - RB Size 25)

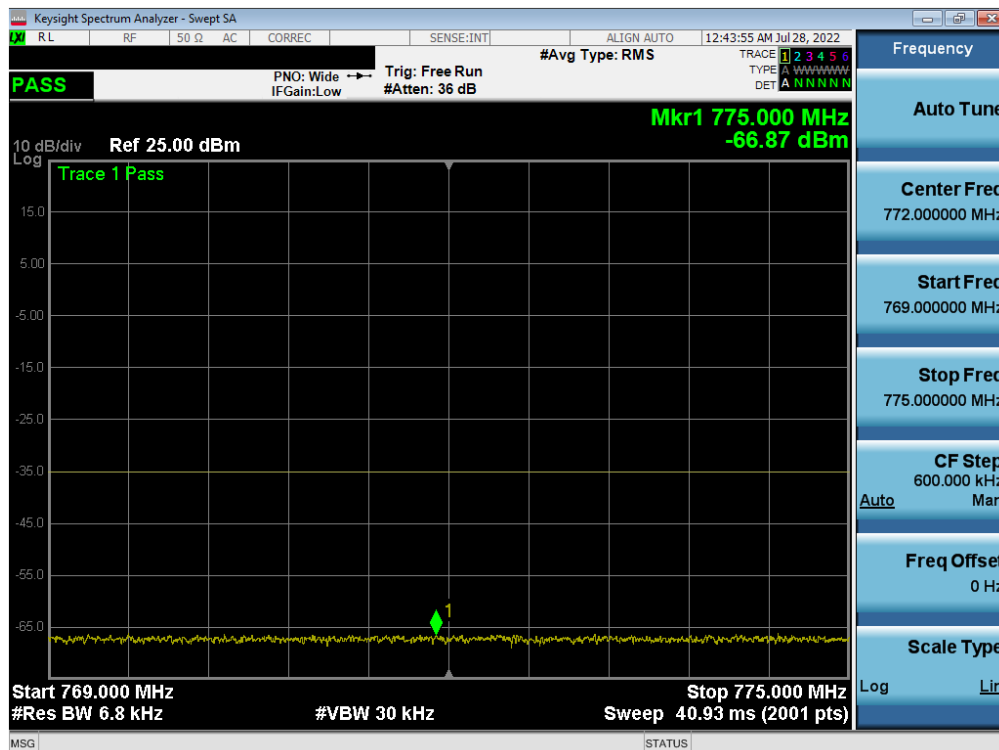


Plot 7-91. Upper Emission Mask Plot (LTE Band 14, 5MHz QPSK - RB Size 25)

| | | | |
|---|--|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 | element | PART 90 MEASUREMENT REPORT | Approved by: Technical Manager |
| Test Report S/N: 1C2205090025-09.BCG | Test Dates: 05/30/2022 - 09/09/2022 | EUT Type: Tablet Device | Page 65 of 101 |



Plot 7-92. Lower Band Edge Plot (LTE Band 14, 10MHz QPSK - RB Size 50)

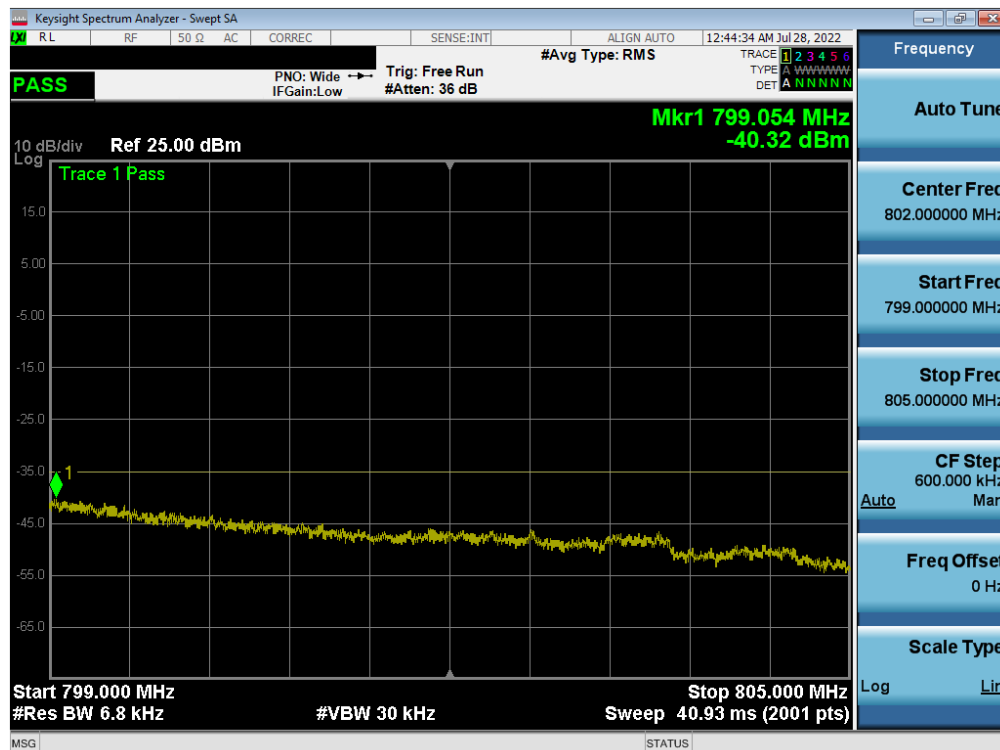


Plot 7-93. Lower Emission Mask Plot (LTE Band 14, 10MHz QPSK - RB Size 50)

| | | | |
|---|--|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 | PART 90 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1C2205090025-09.BCG | Test Dates: 05/30/2022 - 09/09/2022 | EUT Type: Tablet Device | Page 66 of 101 |

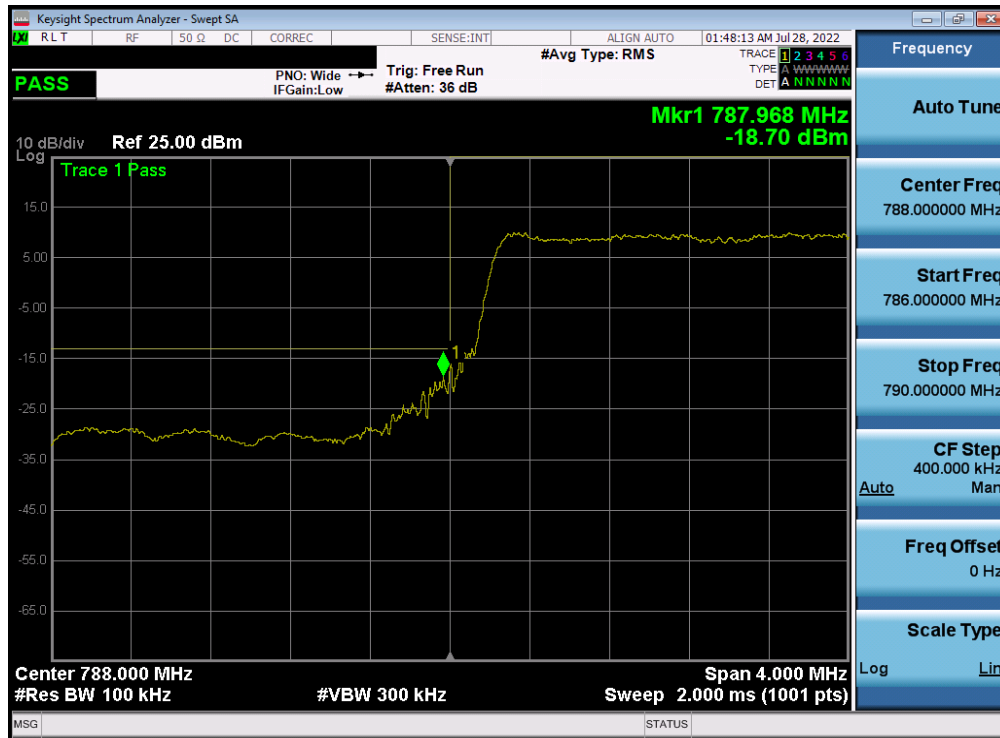


Plot 7-94. Upper Band Edge Plot (LTE Band 14, 10MHz QPSK - RB Size 50)



Plot 7-95. Upper Emission Mask Plot (LTE Band 14, 10MHz QPSK - RB Size 50)


| | | | |
|---|--|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 | element | PART 90 MEASUREMENT REPORT | Approved by: Technical Manager |
| Test Report S/N: 1C2205090025-09.BCG | Test Dates: 05/30/2022 - 09/09/2022 | EUT Type: Tablet Device | Page 67 of 101 |



Plot 7-96. Lower Band Edge Plot (NR Band n14, 5MHz DFT-s-OFDM $\pi/2$ BPSK - RB Size 25)

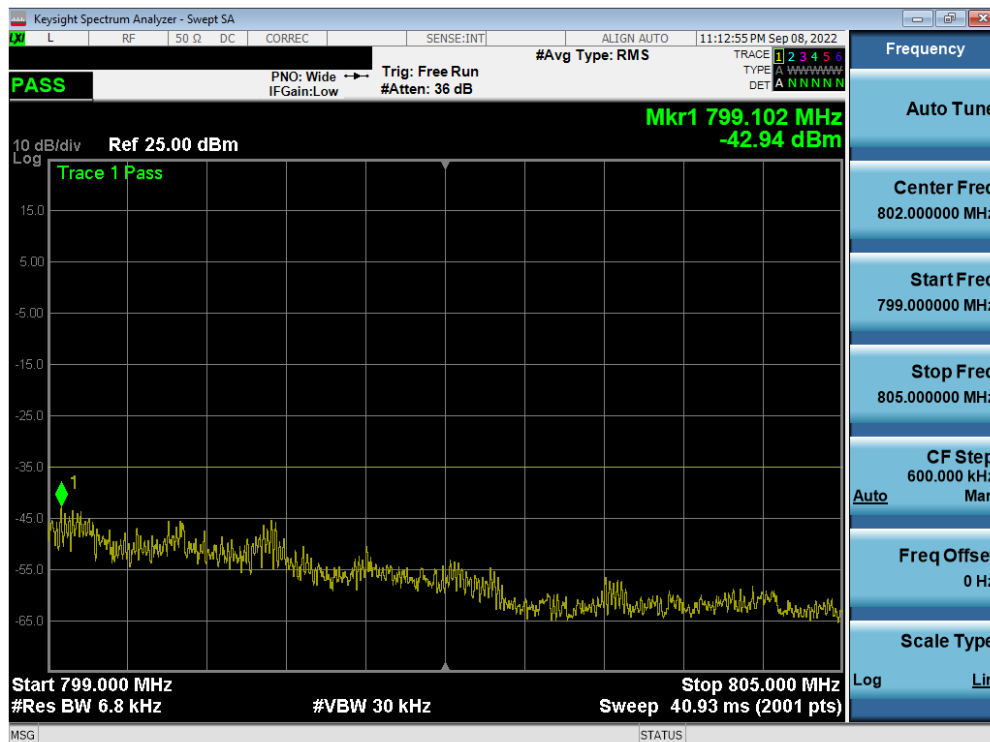


Plot 7-97. Lower Emission Mask Plot (NR Band n14, 5MHz CP-OFDM QPSK - RB Size 25)

| | | | |
|---|---|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 |  | PART 90 MEASUREMENT REPORT | Approved by: Technical Manager |
| Test Report S/N: 1C2205090025-09.BCG | Test Dates: 05/30/2022 - 09/09/2022 | EUT Type: Tablet Device | Page 68 of 101 |

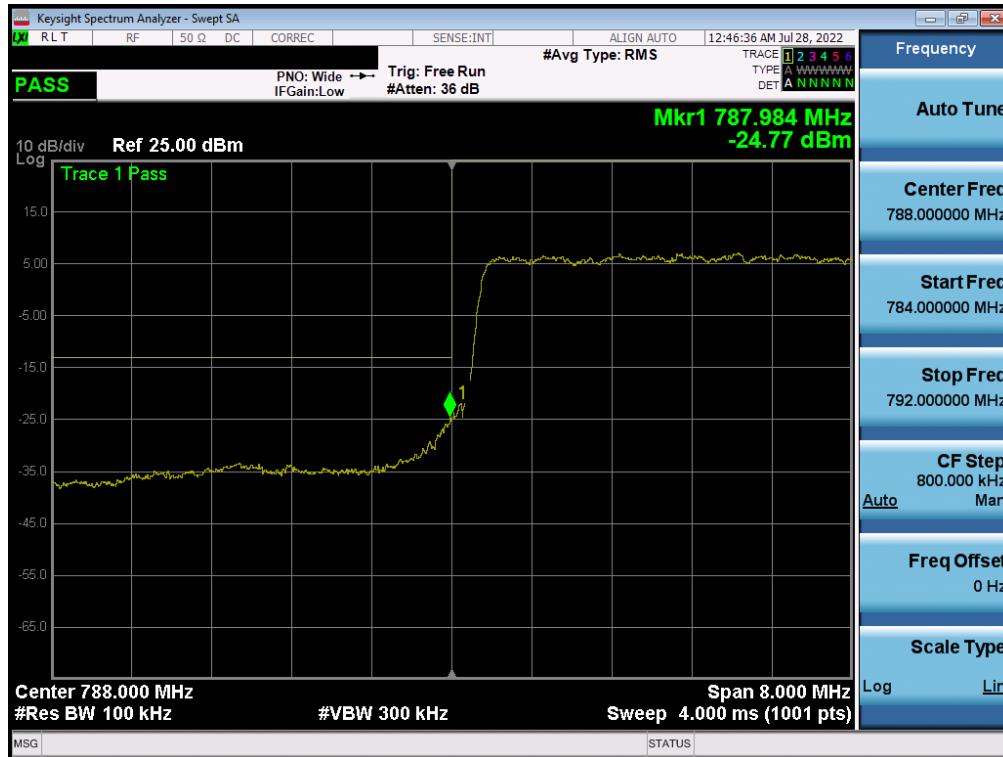


Plot 7-98. Upper Band Edge Plot (NR Band n14, 5MHz DFT-s-OFDM $\pi/2$ BPSK - RB Size 25)

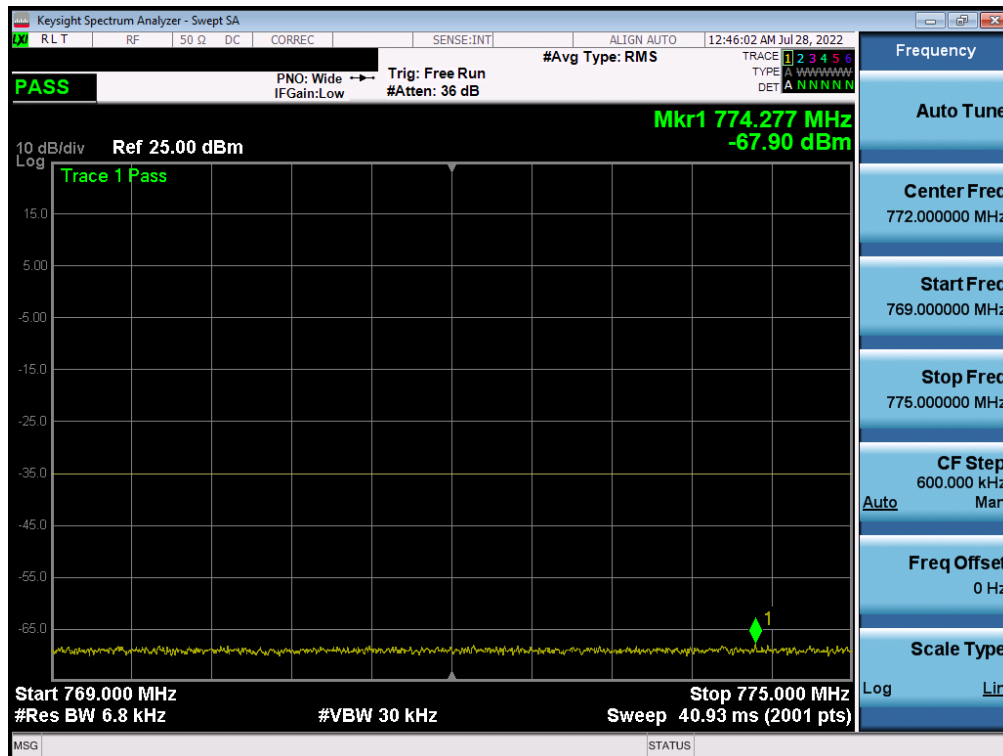


Plot 7-99. Upper Emission Mask Plot (NR Band n14, 5MHz DFT-s-OFDM $\pi/2$ BPSK - RB Size 25)

| | | | |
|---|--|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 | element | PART 90 MEASUREMENT REPORT | Approved by: Technical Manager |
| Test Report S/N: 1C2205090025-09.BCG | Test Dates: 05/30/2022 - 09/09/2022 | EUT Type: Tablet Device | Page 69 of 101 |



Plot 7-100. Lower Band Edge Plot (NR Band n14, 10MHz DFT-s-OFDM $\pi/2$ BPSK - RB Size 50)

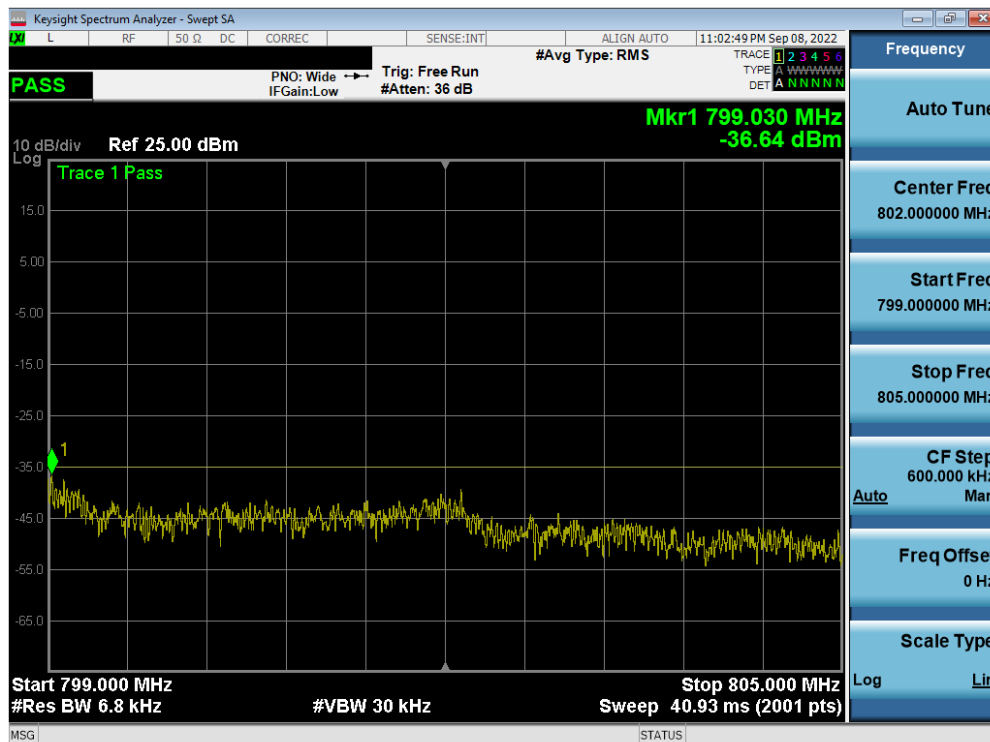


Plot 7-101. Lower Emission Mask Plot (NR Band n14, 10MHz CP-OFDM QPSK - RB Size 50)

| | | | |
|---|--|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 | element | PART 90 MEASUREMENT REPORT | Approved by: Technical Manager |
| Test Report S/N: 1C2205090025-09.BCG | Test Dates: 05/30/2022 - 09/09/2022 | EUT Type: Tablet Device | Page 70 of 101 |

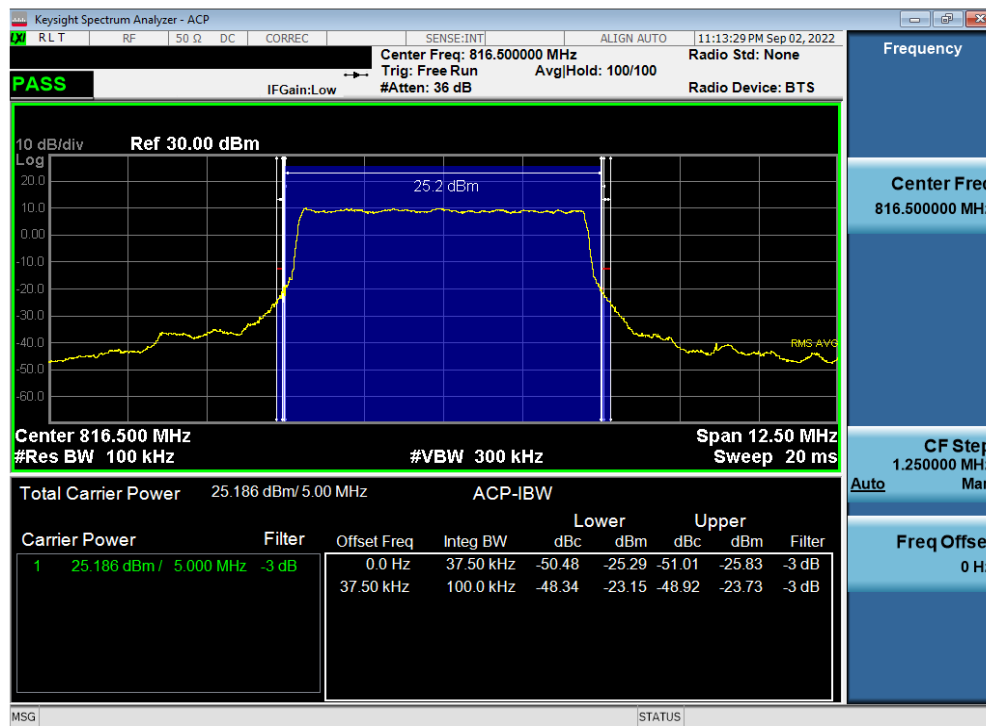


Plot 7-102. Upper Band Edge Plot (NR Band n14, 10MHz DFT-s-OFDM $\pi/2$ BPSK - RB Size 50)

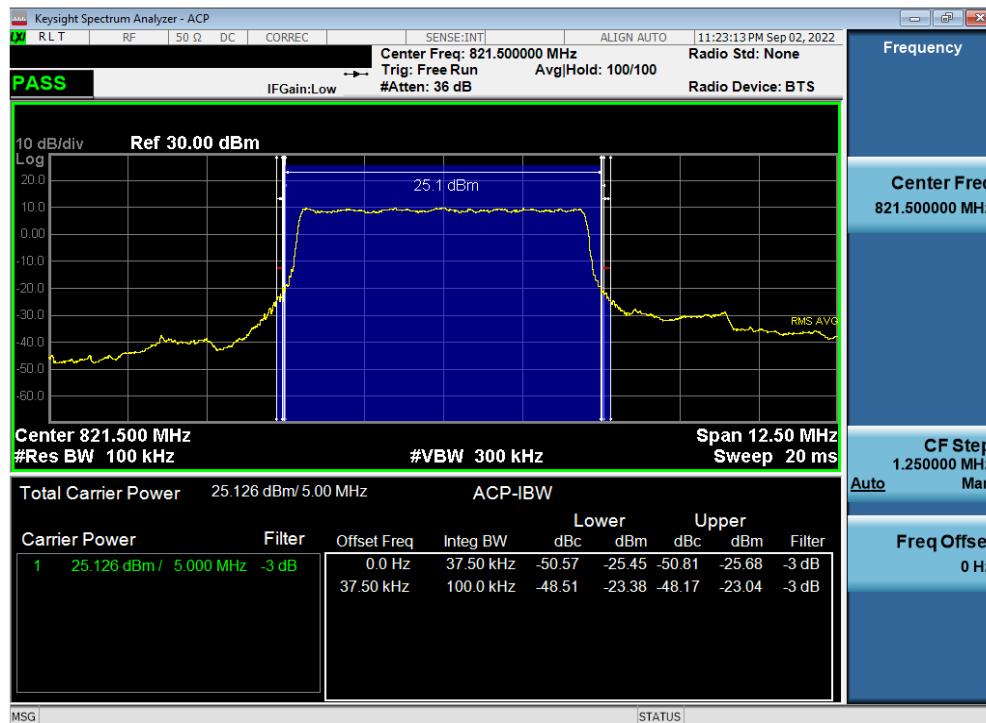


Plot 7-103. Upper Emission Mask Plot (NR Band n14, 10MHz DFT-s-OFDM $\pi/2$ BPSK - RB Size 50)


| | | | |
|---|--|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 | element | PART 90 MEASUREMENT REPORT | Approved by: Technical Manager |
| Test Report S/N: 1C2205090025-09.BCG | Test Dates: 05/30/2022 - 09/09/2022 | EUT Type: Tablet Device | Page 71 of 101 |

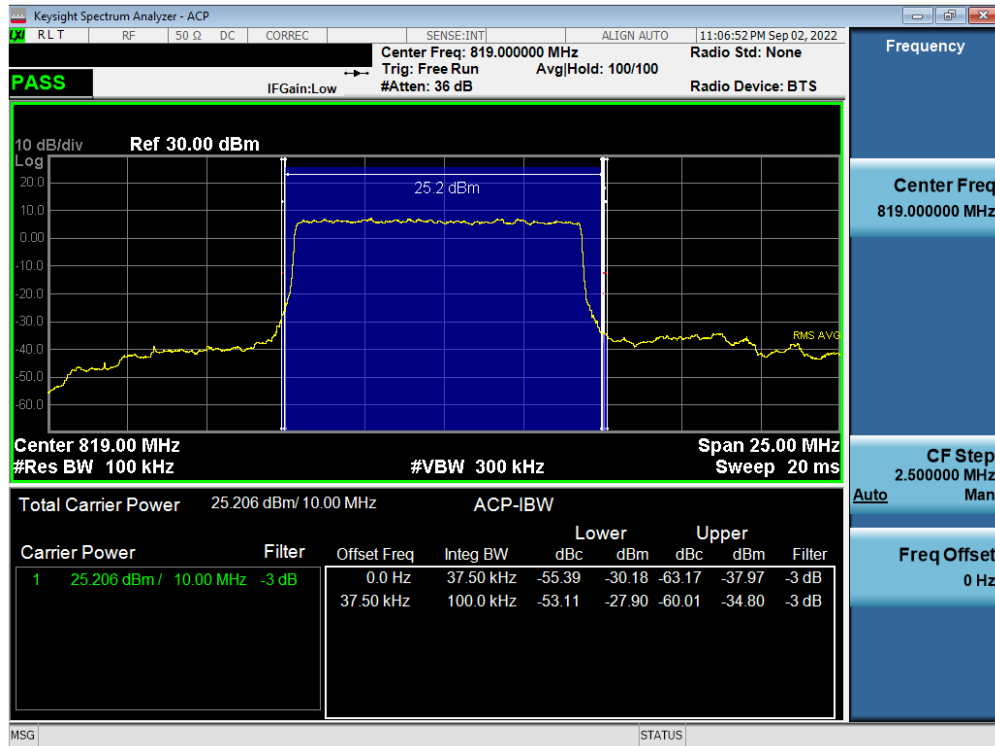


Plot 7-104. Channel Edge Plot (NR Band n26, 5MHz DFT-s-OFDM $\pi/2$ BPSK - Low Channel)



Plot 7-105. Channel Edge Plot (NR Band n26, 5MHz DFT-s-OFDM $\pi/2$ BPSK - High Channel)

| | | | |
|---|---|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 |  PART 90 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1C2205090025-09.BCG | Test Dates: 05/30/2022 - 09/09/2022 | EUT Type: Tablet Device | Page 72 of 101 |



Plot 7-106. Channel Edge Plot (NR Band n26, 10MHz DFT-s-OFDM $\pi/2$ BPSK - Mid Channel)

| | | | |
|---|--|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 | element | PART 90 MEASUREMENT REPORT | Approved by: Technical Manager |
| Test Report S/N: 1C2205090025-09.BCG | Test Dates: 05/30/2022 - 09/09/2022 | EUT Type: Tablet Device | Page 73 of 101 |

7.5 Conducted Power Output Data

§2.1046 §90.635

Test Overview

Conducted power measurements are performed to measure the average output power of the EUT. The averaging is to be performed only over duration of active transmissions at maximum output power level. The average measurements do not include averaging over periods when the transmitter is quiescent or when operating at reduced power level.

Test Procedures Used

KDB 971168 D01 v03r01

Test Setup

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

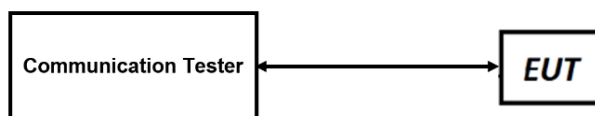



Figure 7-4. Conducted Power Measurement Setup

Test Notes

1. The EUT was tested in all possible test configurations. The worst case emissions are reported with the EUT modulations and channel bandwidth configurations shown in the tables below.
2. This unit was tested with its standard battery.

| | | | |
|---|---|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 |  | PART 90 MEASUREMENT REPORT | Approved by: Technical Manager |
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Antenna 3

| Bandwidth | Modulation | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] | Conducted Power [Watts] | Conducted Power Limit [dBm] | Margin [dB] |
|-----------|------------|-----------------|----------------|-----------------------|-------------------------|-----------------------------|-------------|
| 1.4 MHz | QPSK | 814.7 | 1 / 3 | 25.42 | 0.348 | 50.00 | -24.58 |
| | | 823.3 | 1 / 5 | 25.48 | 0.353 | 50.00 | -24.52 |
| | 16-QAM | 814.7 | 1 / 0 | 24.34 | 0.272 | 50.00 | -25.66 |
| | 64-QAM | 823.3 | 1 / 3 | 23.57 | 0.228 | 50.00 | -26.43 |
| | 256-QAM | 823.3 | 1 / 0 | 21.66 | 0.147 | 50.00 | -28.34 |
| 3 MHz | QPSK | 815.5 | 1 / 0 | 25.33 | 0.341 | 50.00 | -24.67 |
| | | 822.5 | 1 / 0 | 25.53 | 0.357 | 50.00 | -24.47 |
| | 16-QAM | 815.5 | 1 / 14 | 24.27 | 0.268 | 50.00 | -25.73 |
| | 64-QAM | 815.5 | 1 / 14 | 23.30 | 0.214 | 50.00 | -26.70 |
| | 256-QAM | 815.5 | 1 / 7 | 21.76 | 0.150 | 50.00 | -28.24 |
| 5 MHz | QPSK | 816.5 | 1 / 12 | 25.41 | 0.348 | 50.00 | -24.59 |
| | | 821.5 | 1 / 12 | 25.49 | 0.354 | 50.00 | -24.51 |
| | 16-QAM | 821.5 | 1 / 0 | 24.37 | 0.274 | 50.00 | -25.63 |
| | 64-QAM | 816.5 | 1 / 24 | 23.56 | 0.227 | 50.00 | -26.44 |
| | 256-QAM | 816.5 | 1 / 24 | 21.59 | 0.144 | 50.00 | -28.41 |
| 10 MHz | QPSK | 819.0 | 1 / 25 | 25.42 | 0.348 | 50.00 | -24.58 |
| | 16-QAM | 819.0 | 1 / 49 | 24.38 | 0.274 | 50.00 | -25.62 |
| | 64-QAM | 819.0 | 1 / 0 | 23.51 | 0.224 | 50.00 | -26.49 |
| | 256-QAM | 819.0 | 1 / 25 | 21.63 | 0.146 | 50.00 | -28.37 |

Table 7-2. Conducted Power Output Data (LTE Band 26)

| Bandwidth | Modulation | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] | Conducted Power [Watts] | Conducted Power Limit [dBm] | Margin [dB] |
|-----------|--------------|-----------------|----------------|-----------------------|-------------------------|-----------------------------|-------------|
| 5 MHz | $\pi/2$ BPSK | 816.5 | 1 / 1 | 25.27 | 0.337 | 50.00 | -24.73 |
| | | 819.0 | 1 / 1 | 25.11 | 0.324 | 50.00 | -24.89 |
| | | 821.5 | 1 / 12 | 24.91 | 0.310 | 50.00 | -25.09 |
| | QPSK | 816.5 | 1 / 1 | 25.29 | 0.338 | 50.00 | -24.71 |
| | | 819.0 | 1 / 12 | 25.27 | 0.336 | 50.00 | -24.73 |
| | | 821.5 | 1 / 1 | 25.30 | 0.339 | 50.00 | -24.70 |
| | 16-QAM | 819.0 | 1 / 23 | 24.70 | 0.295 | 50.00 | -25.30 |
| | 64-QAM | 819.0 | 1 / 23 | 23.03 | 0.201 | 50.00 | -26.97 |
| | 256-QAM | 819.0 | 1 / 12 | 20.91 | 0.123 | 50.00 | -29.09 |
| 10 MHz | $\pi/2$ BPSK | 819.0 | 1 / 25 | 25.35 | 0.342 | 50.00 | -24.65 |
| | QPSK | 819.0 | 1 / 1 | 25.30 | 0.339 | 50.00 | -24.70 |
| | 16-QAM | 819.0 | 1 / 48 | 24.64 | 0.291 | 50.00 | -25.36 |
| | 64-QAM | 819.0 | 1 / 1 | 22.91 | 0.195 | 50.00 | -27.09 |
| | 256-QAM | 819.0 | 1 / 25 | 21.03 | 0.127 | 50.00 | -28.97 |

Table 7-3. Conducted Power Output Data (NR Band n26)

| | | | | |
|---|---|----------------------------|--|-----------------------------------|
| FCC ID: BCGA2435 |  PART 90 MEASUREMENT REPORT | | | Approved by: Technical Manager |
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Antenna 1

| Bandwidth | Modulation | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] | Conducted Power [Watts] | Conducted Power Limit [dBm] | Margin [dB] |
|-----------|------------|-----------------|----------------|-----------------------|-------------------------|-----------------------------|-------------|
| 1.4 MHz | QPSK | 814.7 | 1 / 3 | 23.56 | 0.227 | 50.00 | -26.44 |
| | | 823.3 | 1 / 0 | 23.60 | 0.229 | 50.00 | -26.40 |
| | 16-QAM | 823.3 | 1 / 3 | 22.87 | 0.194 | 50.00 | -27.13 |
| | 64-QAM | 823.3 | 1 / 5 | 21.99 | 0.158 | 50.00 | -28.01 |
| | 256-QAM | 823.3 | 1 / 3 | 20.92 | 0.124 | 50.00 | -29.08 |
| 3 MHz | QPSK | 815.5 | 1 / 14 | 23.64 | 0.231 | 50.00 | -26.36 |
| | | 822.5 | 1 / 7 | 23.55 | 0.226 | 50.00 | -26.45 |
| | 16-QAM | 815.5 | 1 / 0 | 22.81 | 0.191 | 50.00 | -27.19 |
| | 64-QAM | 822.5 | 1 / 7 | 22.03 | 0.160 | 50.00 | -27.97 |
| | 256-QAM | 822.5 | 1 / 7 | 20.78 | 0.120 | 50.00 | -29.22 |
| 5 MHz | QPSK | 816.5 | 1 / 12 | 23.60 | 0.229 | 50.00 | -26.40 |
| | | 821.5 | 1 / 12 | 23.62 | 0.230 | 50.00 | -26.38 |
| | 16-QAM | 816.5 | 1 / 24 | 22.90 | 0.195 | 50.00 | -27.10 |
| | 64-QAM | 816.5 | 1 / 24 | 21.93 | 0.156 | 50.00 | -28.07 |
| | 256-QAM | 816.5 | 1 / 24 | 20.96 | 0.125 | 50.00 | -29.04 |
| 10 MHz | QPSK | 819.0 | 1 / 49 | 23.54 | 0.226 | 50.00 | -26.46 |
| | 16-QAM | 819.0 | 1 / 25 | 23.06 | 0.202 | 50.00 | -26.94 |
| | 64-QAM | 819.0 | 1 / 0 | 21.39 | 0.138 | 50.00 | -28.61 |
| | 256-QAM | 819.0 | 1 / 25 | 20.82 | 0.121 | 50.00 | -29.18 |

Table 7-4. Conducted Power Output Data (LTE Band 26)

| Bandwidth | Modulation | Frequency [MHz] | RB Size/Offset | Conducted Power [dBm] | Conducted Power [Watts] | Conducted Power Limit [dBm] | Margin [dB] |
|-----------|--------------|-----------------|----------------|-----------------------|-------------------------|-----------------------------|-------------|
| 5 MHz | $\pi/2$ BPSK | 816.5 | 1 / 12 | 23.11 | 0.205 | 50.00 | -26.89 |
| | | 819.0 | 1 / 1 | 23.05 | 0.202 | 50.00 | -26.95 |
| | | 821.5 | 1 / 23 | 23.33 | 0.215 | 50.00 | -26.67 |
| | QPSK | 816.5 | 1 / 23 | 23.19 | 0.208 | 50.00 | -26.81 |
| | | 819.0 | 1 / 1 | 23.76 | 0.238 | 50.00 | -26.24 |
| | | 821.5 | 1 / 1 | 23.44 | 0.221 | 50.00 | -26.56 |
| | 16-QAM | 816.5 | 1 / 1 | 22.59 | 0.182 | 50.00 | -27.41 |
| | 64-QAM | 821.5 | 1 / 23 | 21.37 | 0.137 | 50.00 | -28.63 |
| | 256-QAM | 819.0 | 1 / 23 | 18.95 | 0.078 | 50.00 | -31.05 |
| 10 MHz | $\pi/2$ BPSK | 819.0 | 1 / 1 | 23.32 | 0.215 | 50.00 | -26.68 |
| | QPSK | 819.0 | 1 / 1 | 23.47 | 0.222 | 50.00 | -26.53 |
| | 16-QAM | 819.0 | 1 / 25 | 22.44 | 0.175 | 50.00 | -27.56 |
| | 64-QAM | 819.0 | 1 / 48 | 21.02 | 0.126 | 50.00 | -28.98 |
| | 256-QAM | 819.0 | 1 / 25 | 18.93 | 0.078 | 50.00 | -31.07 |

Table 7-5. Conducted Power Output Data (NR Band n26)

| | | | |
|---|---|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 |  PART 90 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1C2205090025-09.BCG | Test Dates: 05/30/2022 - 09/09/2022 | EUT Type: Tablet Device | Page 76 of 101 |

7.6 Radiated Power (ERP)

§90.542(a)(7)

Test Overview

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

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.2.1
ANSI C63.26-2015
TIA-603-E-2016 – Section 2.2.17

Test Settings

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

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

Where:

ERP = Effective Radiated Power (expressed in the same units as P_{Meas}, typically dBW or dBm)

P_{Meas} = 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)

Test Setup

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

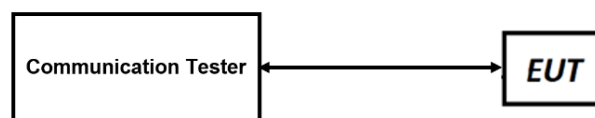




Figure 7-5. ERP Measurement Setup

| | | |
|---|---|-----------------------------------|
| FCC ID: BCGA2435 |  PART 90 MEASUREMENT REPORT | Approved by: Technical Manager |
| Test Report S/N: 1C2205090025-09.BCG | Test Dates: 05/30/2022 - 09/09/2022 | EUT Type: Tablet Device |
| © 2022 Element Washington DC LLC | | Page 77 of 101 |

Test Notes

- 1) The worst case emissions are reported with the 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.

| | | | |
|--|---|-----------------------------------|--|
| FCC ID: BCGA2435 |  PART 90 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1C2205090025-09.BCG | Test Dates: 05/30/2022 - 09/09/2022 | EUT Type: Tablet Device | Page 78 of 101 |


Antenna 3 – ERP

| Bandwidth | Mod. | Frequency [MHz] | Ant. Gain [dBi] | RB Size/Offset | Conducted Power [dBm] | ERP [dBm] | ERP [Watts] | ERP Limit [dBm] | Margin [dB] |
|-----------|---------|-----------------|-----------------|----------------|-----------------------|--------------|-------------|-----------------|-------------|
| 5 MHz | QPSK | 790.5 | -2.70 | 1 / 0 | 25.54 | 20.69 | 0.117 | 34.77 | -14.08 |
| | | 793.0 | -2.70 | 1 / 12 | 25.49 | 20.64 | 0.116 | 34.77 | -14.13 |
| | | 795.5 | -2.70 | 1 / 0 | 25.45 | 20.60 | 0.115 | 34.77 | -14.17 |
| | 16-QAM | 793.0 | -2.70 | 1 / 0 | 24.62 | 19.77 | 0.095 | 34.77 | -15.00 |
| | 64-QAM | 793.0 | -2.70 | 1 / 12 | 23.51 | 18.66 | 0.073 | 34.77 | -16.11 |
| | 256-QAM | 793.0 | -2.70 | 1 / 0 | 21.50 | 16.65 | 0.046 | 34.77 | -18.12 |
| 10 MHz | QPSK | 793.0 | -2.70 | 1 / 0 | 25.64 | 20.79 | 0.120 | 34.77 | -13.98 |
| | 16-QAM | 793.0 | -2.70 | 1 / 0 | 24.55 | 19.70 | 0.093 | 34.77 | -15.07 |
| | 64-QAM | 793.0 | -2.70 | 1 / 49 | 23.63 | 18.78 | 0.076 | 34.77 | -15.99 |
| | 256-QAM | 793.0 | -2.70 | 1 / 25 | 21.62 | 16.77 | 0.048 | 34.77 | -18.00 |

Table 7-6. ERP Data (LTE Band 14)

| Bandwidth | Mod. | Frequency [MHz] | Ant. Gain [dBi] | RB Size/Offset | Conducted Power [dBm] | ERP [dBm] | ERP [Watts] | ERP Limit [dBm] | Margin [dB] |
|-----------|--------------|-----------------|-----------------|----------------|-----------------------|--------------|-------------|-----------------|-------------|
| 5 MHz | $\pi/2$ BPSK | 790.5 | -2.70 | 1 / 23 | 25.27 | 20.42 | 0.110 | 34.77 | -14.35 |
| | | 793.0 | -2.70 | 1 / 12 | 25.44 | 20.59 | 0.115 | 34.77 | -14.18 |
| | | 795.5 | -2.70 | 1 / 23 | 25.26 | 20.41 | 0.110 | 34.77 | -14.36 |
| | QPSK | 790.5 | -2.70 | 1 / 1 | 25.42 | 20.57 | 0.114 | 34.77 | -14.20 |
| | | 793.0 | -2.70 | 1 / 12 | 25.35 | 20.50 | 0.112 | 34.77 | -14.28 |
| | | 795.5 | -2.70 | 1 / 1 | 25.43 | 20.58 | 0.114 | 34.77 | -14.20 |
| | 16-QAM | 793.0 | -2.70 | 1 / 23 | 24.48 | 19.63 | 0.092 | 34.77 | -15.14 |
| | 64-QAM | 790.5 | -2.70 | 1 / 12 | 23.46 | 18.61 | 0.073 | 34.77 | -16.17 |
| 10 MHz | 256-QAM | 793.0 | -2.70 | 1 / 1 | 21.16 | 16.31 | 0.043 | 34.77 | -18.46 |
| | $\pi/2$ BPSK | 793.0 | -2.70 | 1 / 1 | 25.26 | 20.41 | 0.110 | 34.77 | -14.36 |
| | QPSK | 793.0 | -2.70 | 1 / 48 | 25.38 | 20.53 | 0.113 | 34.77 | -14.24 |
| | 16-QAM | 793.0 | -2.70 | 1 / 1 | 24.41 | 19.56 | 0.090 | 34.77 | -15.21 |
| | 64-QAM | 793.0 | -2.70 | 1 / 48 | 22.82 | 17.97 | 0.063 | 34.77 | -16.80 |
| | 256-QAM | 793.0 | -2.70 | 1 / 25 | 20.70 | 15.85 | 0.038 | 34.77 | -18.92 |

Table 7-7. ERP Data (NR Band n14)

| | | | |
|---|---|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 |  PART 90 MEASUREMENT REPORT | | Approved by: Technical Manager |
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Antenna 1 – ERP

| Bandwidth | Mod. | Frequency [MHz] | Ant. Gain [dBi] | RB Size/Offset | Conducted Power [dBm] | ERP [dBm] | ERP [Watts] | ERP Limit [dBm] | Margin [dB] |
|-----------|---------|-----------------|-----------------|----------------|-----------------------|--------------|-------------|-----------------|-------------|
| 5 MHz | QPSK | 790.5 | -1.50 | 1 / 24 | 23.79 | 20.14 | 0.103 | 34.77 | -14.63 |
| | | 793.0 | -1.50 | 1 / 0 | 23.90 | 20.25 | 0.106 | 34.77 | -14.52 |
| | | 795.5 | -1.50 | 1 / 0 | 23.84 | 20.19 | 0.104 | 34.77 | -14.58 |
| | 16-QAM | 790.5 | -1.50 | 1 / 12 | 23.39 | 19.74 | 0.094 | 34.77 | -15.03 |
| | 64-QAM | 793.0 | -1.50 | 1 / 12 | 22.61 | 18.96 | 0.079 | 34.77 | -15.81 |
| | 256-QAM | 793.0 | -1.50 | 1 / 12 | 19.88 | 16.23 | 0.042 | 34.77 | -18.54 |
| 10 MHz | QPSK | 793.0 | -1.50 | 1 / 0 | 23.90 | 20.25 | 0.106 | 34.77 | -14.52 |
| | 16-QAM | 793.0 | -1.50 | 1 / 49 | 22.88 | 19.23 | 0.084 | 34.77 | -15.54 |
| | 64-QAM | 793.0 | -1.50 | 1 / 25 | 21.94 | 18.29 | 0.067 | 34.77 | -16.48 |
| | 256-QAM | 793.0 | -1.50 | 1 / 49 | 19.88 | 16.23 | 0.042 | 34.77 | -18.54 |

Table 7-8. ERP Data (LTE Band 14)

| Bandwidth | Mod. | Frequency [MHz] | Ant. Gain [dBi] | RB Size/Offset | Conducted Power [dBm] | ERP [dBm] | ERP [Watts] | ERP Limit [dBm] | Margin [dB] |
|-----------|--------------|-----------------|-----------------|----------------|-----------------------|--------------|-------------|-----------------|-------------|
| 5 MHz | $\pi/2$ BPSK | 790.5 | -1.50 | 1 / 12 | 23.44 | 19.79 | 0.095 | 34.77 | -14.98 |
| | | 793.0 | -1.50 | 1 / 12 | 23.60 | 19.95 | 0.099 | 34.77 | -14.82 |
| | | 795.5 | -1.50 | 1 / 1 | 23.37 | 19.72 | 0.094 | 34.77 | -15.05 |
| | QPSK | 790.5 | -1.50 | 1 / 12 | 23.55 | 19.90 | 0.098 | 34.77 | -14.87 |
| | | 793.0 | -1.50 | 1 / 12 | 23.60 | 19.95 | 0.099 | 34.77 | -14.82 |
| | | 795.5 | -1.50 | 1 / 12 | 23.52 | 19.87 | 0.097 | 34.77 | -14.90 |
| | 16-QAM | 795.5 | -1.50 | 1 / 12 | 22.89 | 19.24 | 0.084 | 34.77 | -15.53 |
| | 64-QAM | 790.5 | -1.50 | 1 / 23 | 21.92 | 18.27 | 0.067 | 34.77 | -16.50 |
| 10 MHz | 256-QAM | 793.0 | -1.50 | 1 / 12 | 19.11 | 15.46 | 0.035 | 34.77 | -19.31 |
| | $\pi/2$ BPSK | 793.0 | -1.50 | 1 / 25 | 23.57 | 19.92 | 0.098 | 34.77 | -14.85 |
| | QPSK | 793.0 | -1.50 | 1 / 48 | 23.60 | 19.95 | 0.099 | 34.77 | -14.82 |
| | 16-QAM | 793.0 | -1.50 | 1 / 1 | 22.79 | 19.14 | 0.082 | 34.77 | -15.63 |
| | 64-QAM | 793.0 | -1.50 | 1 / 25 | 21.05 | 17.40 | 0.055 | 34.77 | -17.37 |
| | 256-QAM | 793.0 | -1.50 | 1 / 25 | 18.96 | 15.31 | 0.034 | 34.77 | -19.47 |

Table 7-9. ERP Data (NR Band n14)

| | | | |
|---|---|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 |  PART 90 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1C2205090025-09.BCG | Test Dates: 05/30/2022 - 09/09/2022 | EUT Type: Tablet Device | Page 80 of 101 |

7.7 Radiated Spurious Emissions

§2.1053 §90(S).691(a) §90(R).543(e)

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

| | | | |
|---|---|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 |  | PART 90 MEASUREMENT REPORT | Approved by: Technical Manager |
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Test Setup

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

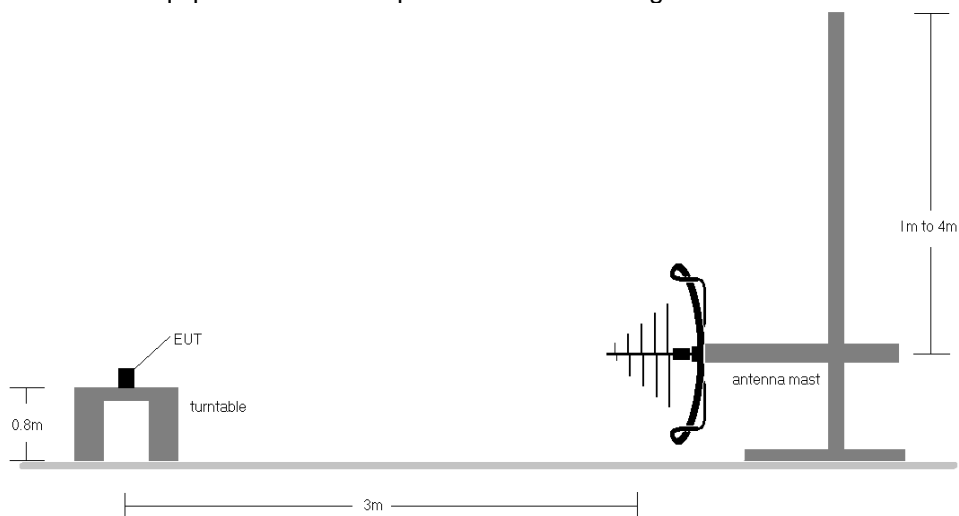


Figure 7-6. Test Instrument & Measurement Setup < 1GHz

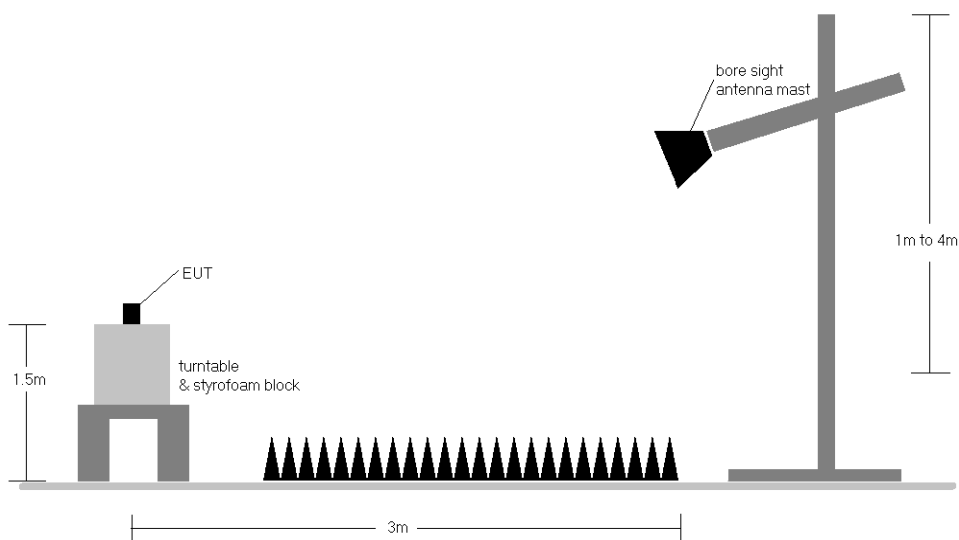




Figure 7-7. Test Instrument & Measurement Setup >1 GHz

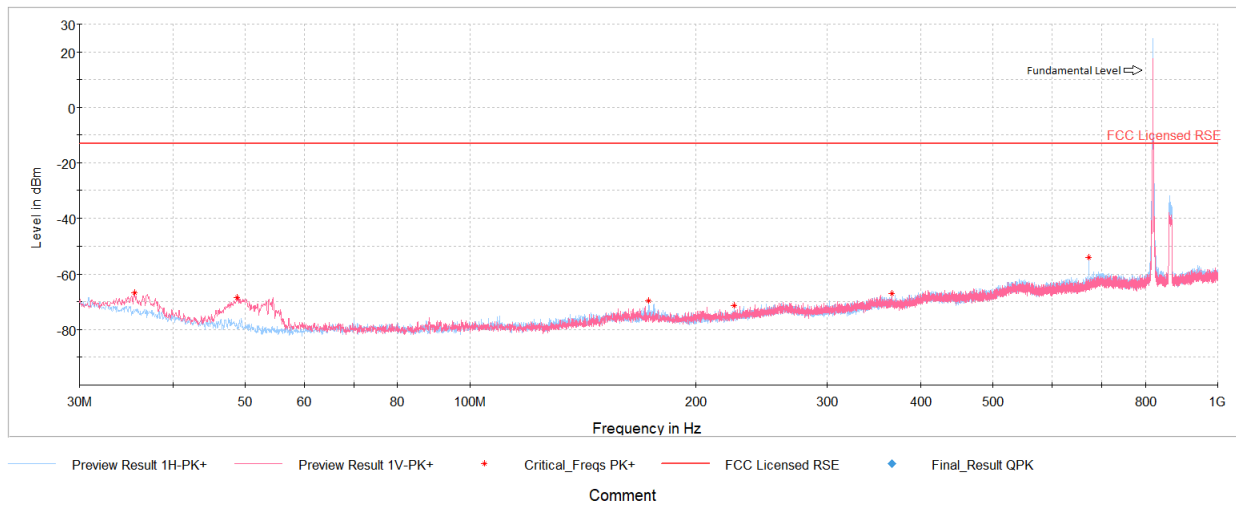
| | | | |
|--|---|-----------------------------------|--|
| FCC ID: BCGA2435 |  | PART 90 MEASUREMENT REPORT | Approved by: Technical Manager |
| Test Report S/N: 1C2205090025-09.BCG | Test Dates: 05/30/2022 - 09/09/2022 | EUT Type: Tablet Device | Page 82 of 101 |

Test Notes

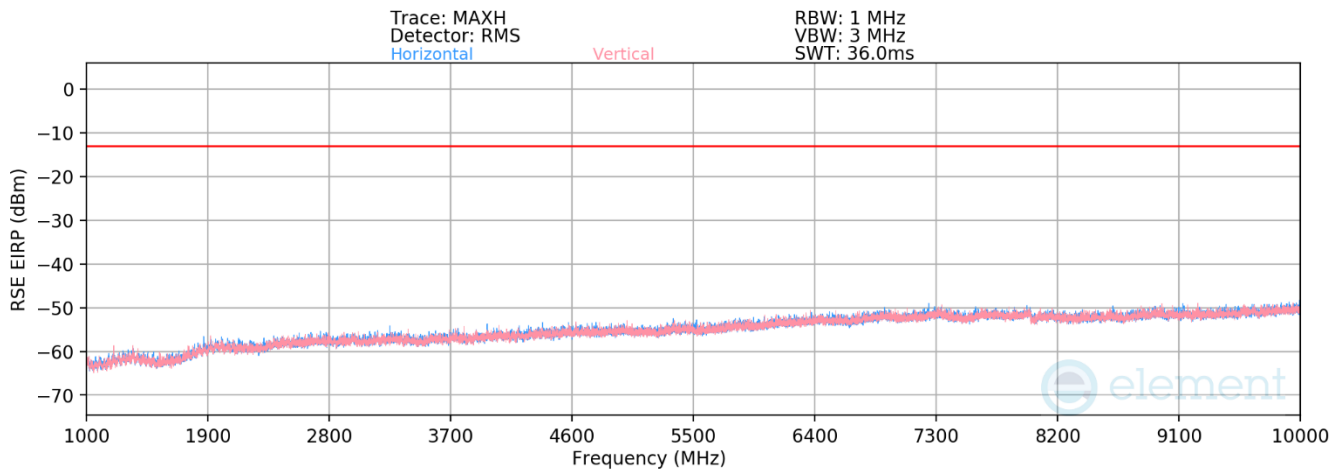
1. Field strengths are calculated using the Measurement quantity conversions in KDB 971168 Section 5.8.4.
 - a. $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b. $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
2. For LTE mode, the device was tested under all modulations, RB sizes and offsets, and channel bandwidth configurations and the worst case emissions are reported with 1 RB.
3. This unit was tested with its standard battery.
4. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case setup is reported in the tables below.
5. The "-" shown in the following RSE tables are used to denote a noise floor measurement.

| | | | |
|--|---|-----------------------------------|--|
| FCC ID: BCGA2435 |  PART 90 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1C2205090025-09.BCG | Test Dates: 05/30/2022 - 09/09/2022 | EUT Type: Tablet Device | Page 83 of 101 |


7.7.1 Antenna 3 – Radiated Spurious Emission Measurements LTE Band 26



Plot 7-107. Antenna 3 Radiated Spurious Plot below 1GHz (LTE Band 26)



Plot 7-108. Antenna 3 Radiated Spurious Plot above 1GHz (LTE Band 26)

| | | | |
|---|---|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 |  | PART 90 MEASUREMENT REPORT | Approved by: Technical Manager |
| Test Report S/N: 1C2205090025-09.BCG | Test Dates: 05/30/2022 - 09/09/2022 | EUT Type: Tablet Device | Page 84 of 101 |

| | |
|----------------------------|--------|
| Bandwidth (MHz): | 5 |
| Frequency (MHz): | 816.5 |
| Modulation Signal: | QPSK |
| RB Config (Size / 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1633.0 | H | - | - | -77.76 | -1.86 | 27.38 | -67.88 | -13.00 | -54.88 |
| 2449.5 | H | - | - | -78.53 | 3.03 | 31.50 | -63.76 | -13.00 | -50.76 |
| 3266.0 | H | - | - | -79.31 | 4.74 | 32.43 | -62.83 | -13.00 | -49.83 |

Table 7-10. Antenna 3 Radiated Spurious Data (LTE Band 26 – Low Channel)

| | |
|----------------------------|--------|
| Bandwidth (MHz): | 10 |
| Frequency (MHz): | 819.0 |
| Modulation Signal: | QPSK |
| RB Config (Size / 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1638.0 | H | - | - | -77.75 | -1.86 | 27.39 | -67.87 | -13.00 | -54.87 |
| 2457.0 | H | - | - | -78.69 | 3.03 | 31.34 | -63.92 | -13.00 | -50.92 |
| 3276.0 | H | - | - | -79.40 | 4.74 | 32.34 | -62.92 | -13.00 | -49.92 |

Table 7-11. Antenna 3 Radiated Spurious Data (LTE Band 26 – Mid Channel)

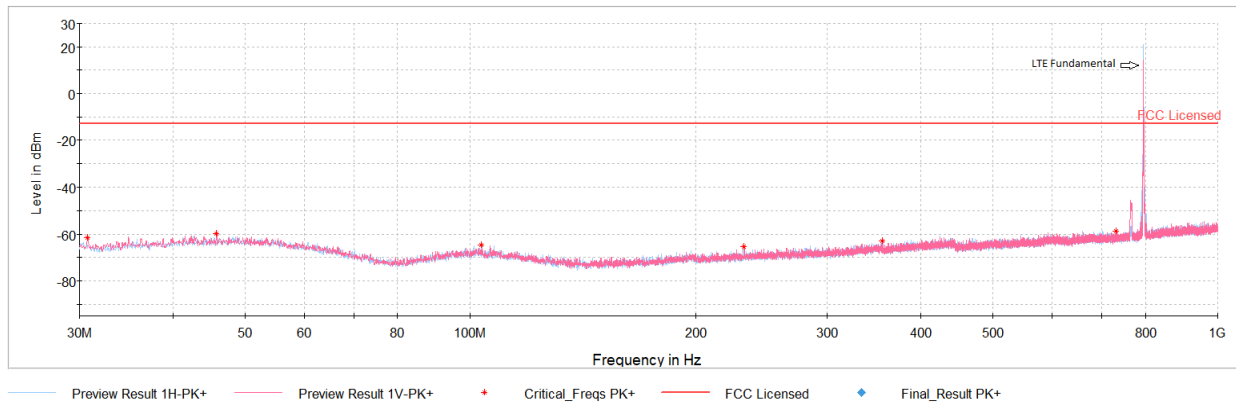
| | |
|----------------------------|--------|
| Bandwidth (MHz): | 5 |
| Frequency (MHz): | 821.5 |
| Modulation Signal: | QPSK |
| RB Config (Size / Offset): | 1 / 12 |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1643.0 | H | - | - | -77.66 | -1.86 | 27.48 | -67.78 | -13.00 | -54.78 |
| 2464.5 | H | - | - | -78.69 | 3.03 | 31.34 | -63.92 | -13.00 | -50.92 |
| 3286.0 | H | - | - | -79.34 | 4.74 | 32.40 | -62.86 | -13.00 | -49.86 |

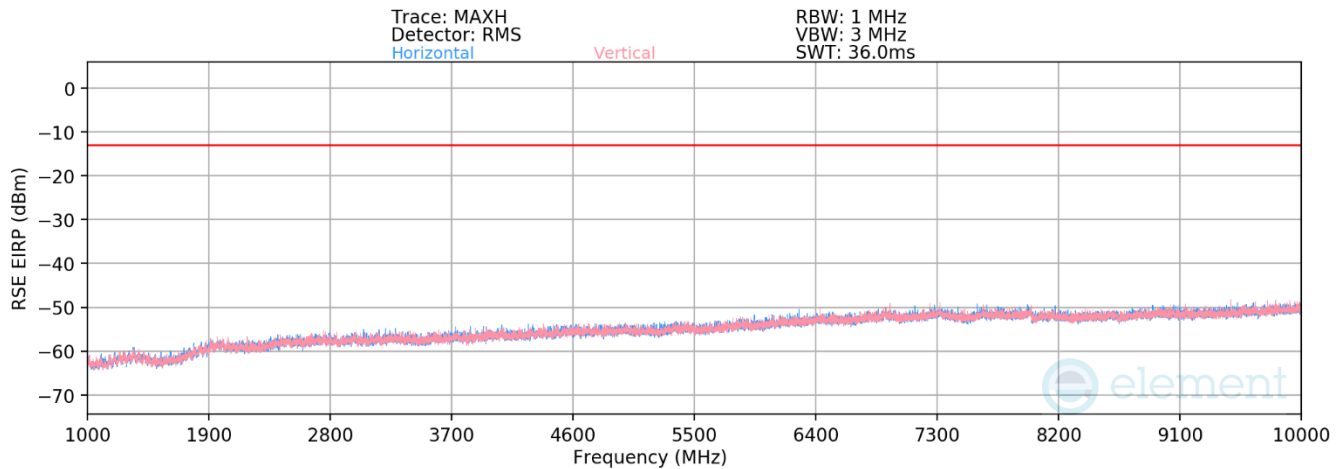
Table 7-12. Antenna 3 Radiated Spurious Data (LTE Band 26 – High Channel)

| | | | |
|---|---|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 |  PART 90 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1C2205090025-09.BCG | Test Dates: 05/30/2022 - 09/09/2022 | EUT Type: Tablet Device | Page 85 of 101 |


LTE Band 14



Plot 7-109. Antenna 3 Radiated Spurious Plot below 1GHz (LTE Band 14)



Plot 7-110. Antenna 3 Radiated Spurious Plot above 1GHz (LTE Band 14)

| | | | |
|---|---|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 |  PART 90 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1C2205090025-09.BCG | Test Dates: 05/30/2022 - 09/09/2022 | EUT Type: Tablet Device | Page 86 of 101 |

| | |
|----------------------------|--------|
| Bandwidth (MHz): | 5 |
| Frequency (MHz): | 790.5 |
| Modulation Signal: | QPSK |
| RB Config (Size / 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1581.0 | H | - | - | -77.62 | -1.92 | 27.46 | -67.79 | -40.00 | -27.79 |
| 2371.5 | H | - | - | -78.43 | 2.54 | 31.11 | -64.15 | -13.00 | -51.15 |
| 3162.0 | H | - | - | -78.83 | 4.40 | 32.57 | -62.69 | -13.00 | -49.69 |

Table 7-13. Antenna 3 Radiated Spurious Data (LTE Band 14 – Low Channel)

| | |
|----------------------------|--------|
| Bandwidth (MHz): | 10 |
| Frequency (MHz): | 793.0 |
| Modulation Signal: | QPSK |
| RB Config (Size / 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1586.0 | H | - | - | -77.96 | -1.96 | 27.08 | -68.18 | -40.00 | -28.18 |
| 2379.0 | H | - | - | -78.44 | 2.66 | 31.22 | -64.03 | -13.00 | -51.03 |
| 3172.0 | H | - | - | -78.85 | 4.17 | 32.32 | -62.94 | -13.00 | -49.94 |

Table 7-14. Antenna 3 Radiated Spurious Data (LTE Band 14 – Mid Channel)

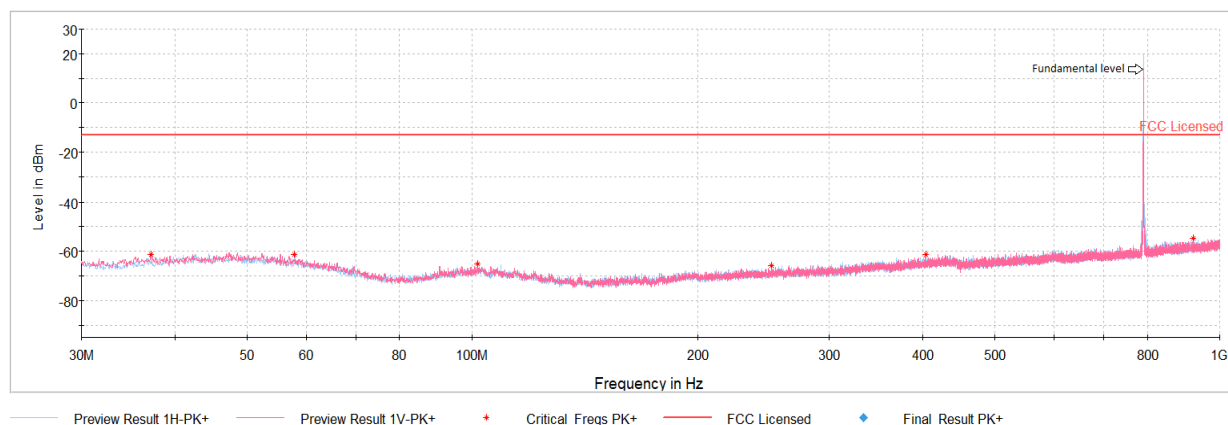
| | |
|----------------------------|--------|
| Bandwidth (MHz): | 5 |
| Frequency (MHz): | 795.5 |
| Modulation Signal: | QPSK |
| RB Config (Size / Offset): | 1 / 12 |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1591.0 | H | - | - | -77.79 | -2.01 | 27.20 | -68.06 | -40.00 | -28.06 |
| 2386.5 | H | - | - | -78.60 | 2.81 | 31.21 | -64.05 | -13.00 | -51.05 |
| 3182.0 | H | - | - | -78.79 | 4.14 | 32.35 | -62.91 | -13.00 | -49.91 |

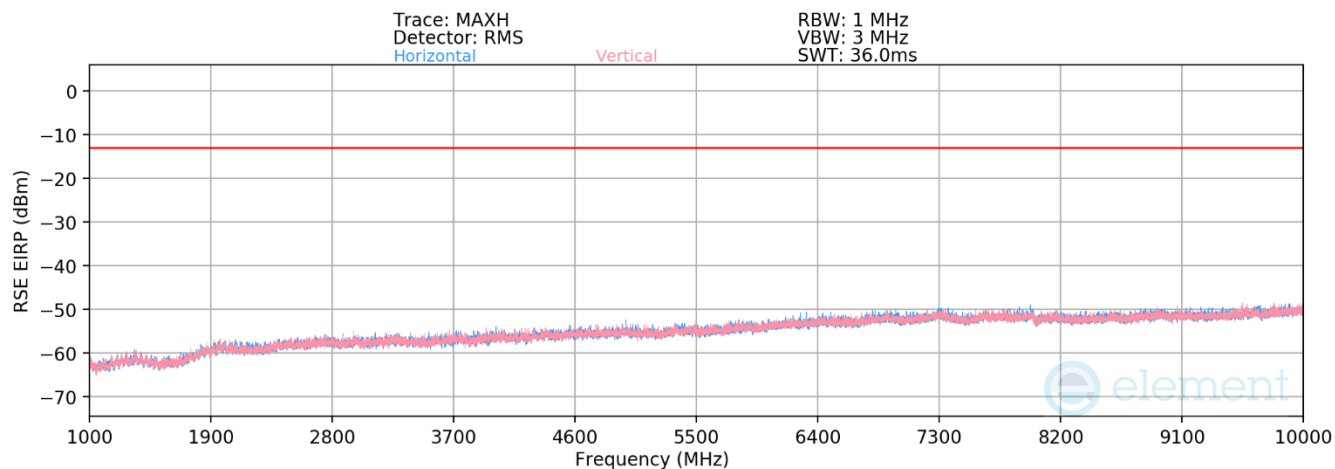
Table 7-15. Antenna 3 Radiated Spurious Data (LTE Band 14 – High Channel)

| | | | | |
|---|---|----------------------------|--|-----------------------------------|
| FCC ID: BCGA2435 |  | PART 90 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1C2205090025-09.BCG | Test Dates: 05/30/2022 - 09/09/2022 | EUT Type: Tablet Device | | Page 87 of 101 |


NR Band n14



Plot 7-111. Antenna 3 Radiated Spurious Plot below 1GHz (NR Band n14)



Plot 7-112. Antenna 3 Radiated Spurious Plot above 1GHz (NR Band n14)

| | | | |
|---|---|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 |  | PART 90 MEASUREMENT REPORT | Approved by: Technical Manager |
| Test Report S/N: 1C2205090025-09.BCG | Test Dates: 05/30/2022 - 09/09/2022 | EUT Type: Tablet Device | Page 88 of 101 |

| | |
|--------------------|--------|
| Bandwidth (MHz): | 5 |
| Frequency (MHz): | 790.5 |
| Modulation Signal: | QPSK |
| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1581.0 | H | - | - | -77.52 | -1.89 | 27.59 | -67.67 | -13.00 | -54.67 |
| 2371.5 | H | - | - | -78.37 | 2.40 | 31.03 | -64.22 | -13.00 | -51.22 |
| 3162.0 | H | - | - | -78.68 | 4.22 | 32.54 | -62.71 | -13.00 | -49.71 |

Table 7-16. Antenna 3 Radiated Spurious Data (NR Band n14 – Low Channel)

| | |
|--------------------|--------|
| Bandwidth (MHz): | 10 |
| Frequency (MHz): | 793.0 |
| Modulation Signal: | QPSK |
| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1586.0 | H | - | - | -77.69 | -1.90 | 27.41 | -67.84 | -13.00 | -54.84 |
| 2379.0 | H | - | - | -78.54 | 2.54 | 31.00 | -64.26 | -13.00 | -51.26 |
| 3172.0 | H | - | - | -78.90 | 4.00 | 32.10 | -63.16 | -13.00 | -50.16 |

Table 7-17. Antenna 3 Radiated Spurious Data (NR Band n14 – Mid Channel)

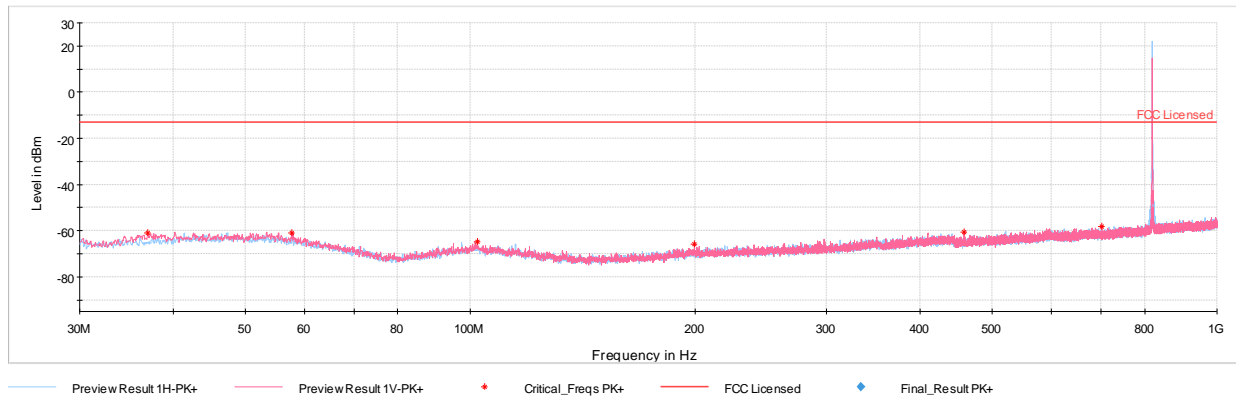
| | |
|--------------------|--------|
| Bandwidth (MHz): | 5 |
| Frequency (MHz): | 795.5 |
| Modulation Signal: | QPSK |
| RB / Offset: | 1 / 12 |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1591.0 | H | - | - | -77.80 | -1.90 | 27.30 | -67.96 | -13.00 | -54.96 |
| 2386.5 | H | - | - | -78.37 | 2.68 | 31.31 | -63.95 | -13.00 | -50.95 |
| 3182.0 | H | - | - | -78.89 | 3.98 | 32.09 | -63.17 | -13.00 | -50.17 |

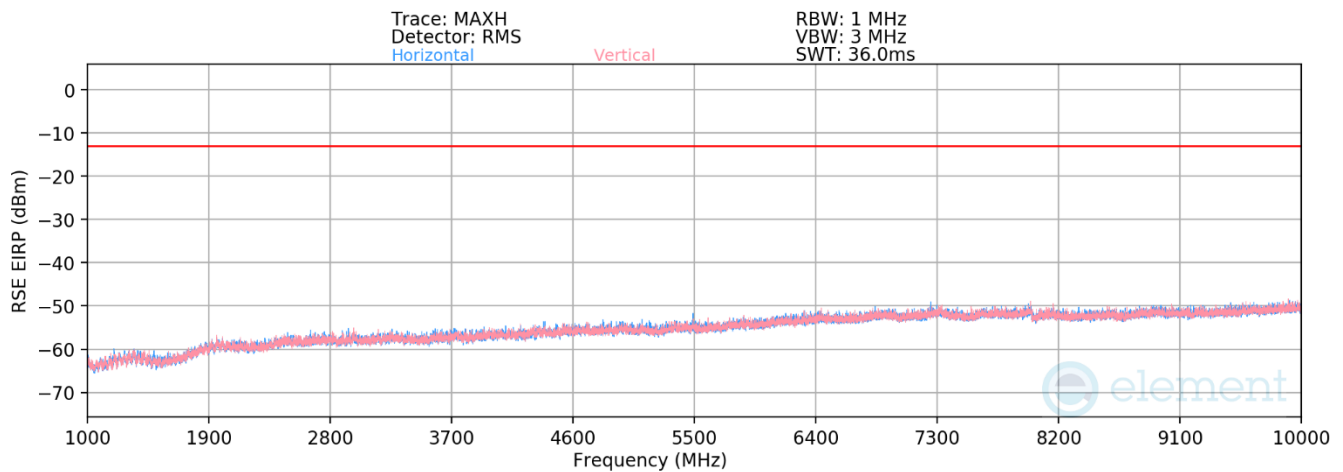
Table 7-18. Antenna 3 Radiated Spurious Data (NR Band n14 – High Channel)

| | | |
|---|---|-----------------------------------|
| FCC ID: BCGA2435 |  PART 90 MEASUREMENT REPORT | Approved by: Technical Manager |
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NR Band n26



Plot 7-113. Antenna 3 Radiated Spurious Plot below 1GHz (NR Band n26)



Plot 7-114. Antenna 3 Radiated Spurious Plot above 1GHz (NR Band n26)

| | | | |
|---|---|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 |  PART 90 MEASUREMENT REPORT | | Approved by: Technical Manager |
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| | |
|--------------------|--------|
| Bandwidth (MHz): | 5 |
| Frequency (MHz): | 816.5 |
| Modulation Signal: | QPSK |
| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1633.0 | H | - | - | -77.63 | -1.88 | 27.49 | -67.77 | -13.00 | -54.77 |
| 2449.5 | H | - | - | -78.44 | 2.99 | 31.55 | -63.71 | -13.00 | -50.71 |
| 3266.0 | H | - | - | -79.48 | 4.70 | 32.22 | -63.04 | -13.00 | -50.04 |

Table 7-19. Antenna 3 Radiated Spurious Data (NR Band n26 – Low Channel)

| | |
|--------------------|--------|
| Bandwidth (MHz): | 10 |
| Frequency (MHz): | 819.0 |
| Modulation Signal: | QPSK |
| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1638.0 | H | - | - | -77.69 | -1.86 | 27.45 | -67.81 | -13.00 | -54.81 |
| 2457.0 | H | - | - | -78.39 | 3.03 | 31.64 | -63.62 | -13.00 | -50.62 |
| 3276.0 | H | - | - | -79.45 | 4.74 | 32.29 | -62.97 | -13.00 | -49.97 |

Table 7-20. Antenna 3 Radiated Spurious Data (NR Band n26 – Mid Channel)

| | |
|--------------------|--------|
| Bandwidth (MHz): | 5 |
| Frequency (MHz): | 821.5 |
| Modulation Signal: | QPSK |
| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1643.0 | H | - | - | -77.73 | -1.84 | 27.43 | -67.83 | -13.00 | -54.83 |
| 2464.5 | H | - | - | -78.60 | 3.06 | 31.46 | -63.80 | -13.00 | -50.80 |
| 3286.0 | H | - | - | -79.46 | 4.83 | 32.37 | -62.89 | -13.00 | -49.89 |

Table 7-21. Antenna 3 Radiated Spurious Data (NR Band n26 – High Channel)

| | | | |
|---|---|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 |  PART 90 MEASUREMENT REPORT | | Approved by: Technical Manager |
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7.7.2 Antenna 1 – Radiated Spurious Emission Measurements

LTE Band 26

| | |
|----------------------------|--------|
| Bandwidth (MHz): | 5 |
| Frequency (MHz): | 816.5 |
| Modulation Signal: | QPSK |
| RB Config (Size / 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1633.0 | H | - | - | -83.13 | -1.86 | 22.01 | -73.25 | -13.00 | -60.25 |
| 2449.5 | H | - | - | -78.73 | 3.03 | 31.30 | -63.96 | -13.00 | -50.96 |
| 3266.0 | H | - | - | -79.23 | 4.74 | 32.51 | -62.75 | -13.00 | -49.75 |

Table 7-22. Antenna 1 Radiated Spurious Data (LTE Band 26 – Low Channel)

| | |
|----------------------------|--------|
| Bandwidth (MHz): | 10 |
| Frequency (MHz): | 819.0 |
| Modulation Signal: | QPSK |
| RB Config (Size / 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1638.0 | H | - | - | -77.55 | -1.86 | 27.59 | -67.67 | -13.00 | -54.67 |
| 2457.0 | H | - | - | -78.56 | 3.03 | 31.47 | -63.79 | -13.00 | -50.79 |
| 3276.0 | H | - | - | -79.53 | 4.74 | 32.21 | -63.05 | -13.00 | -50.05 |

Table 7-23. Antenna 1 Radiated Spurious Data (LTE Band 26 – Mid Channel)

| | |
|----------------------------|--------|
| Bandwidth (MHz): | 5 |
| Frequency (MHz): | 821.5 |
| Modulation Signal: | QPSK |
| RB Config (Size / 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1643.0 | H | - | - | -77.78 | -1.86 | 27.36 | -67.90 | -13.00 | -54.90 |
| 2464.5 | H | - | - | -78.64 | 3.03 | 31.39 | -63.87 | -13.00 | -50.87 |
| 3286.0 | H | - | - | -79.46 | 4.74 | 32.28 | -62.98 | -13.00 | -49.98 |

Table 7-24. Antenna 1 Radiated Spurious Data (LTE Band 26 – High Channel)

| | | | |
|---|---|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 |  PART 90 MEASUREMENT REPORT | | Approved by: Technical Manager |
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LTE Band 14

| | |
|----------------------------|--------|
| Bandwidth (MHz): | 5 |
| Frequency (MHz): | 790.5 |
| Modulation Signal: | QPSK |
| RB Config (Size / 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1581.0 | H | - | - | -77.78 | -1.92 | 27.30 | -67.95 | -40.00 | -27.95 |
| 2371.5 | H | - | - | -78.25 | 2.54 | 31.29 | -63.97 | -13.00 | -50.97 |
| 3162.0 | H | - | - | -78.78 | 4.40 | 32.62 | -62.64 | -13.00 | -49.64 |

Table 7-25. Antenna 1 Radiated Spurious Data (LTE Band 14 – Low Channel)

| | |
|----------------------------|--------|
| Bandwidth (MHz): | 10 |
| Frequency (MHz): | 793.0 |
| Modulation Signal: | QPSK |
| RB Config (Size / 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1586.0 | H | - | - | -77.64 | -1.96 | 27.40 | -67.86 | -40.00 | -27.86 |
| 2379.0 | H | - | - | -78.48 | 2.66 | 31.18 | -64.07 | -13.00 | -51.07 |
| 3172.0 | H | - | - | -78.76 | 4.17 | 32.41 | -62.85 | -13.00 | -49.85 |

Table 7-26. Antenna 1 Radiated Spurious Data (LTE Band 14 – Mid Channel)

| | |
|----------------------------|--------|
| Bandwidth (MHz): | 5 |
| Frequency (MHz): | 795.5 |
| Modulation Signal: | QPSK |
| RB Config (Size / 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1591.0 | H | - | - | -77.81 | -2.01 | 27.18 | -68.08 | -40.00 | -28.08 |
| 2386.5 | H | - | - | -78.53 | 2.81 | 31.28 | -63.98 | -13.00 | -50.98 |
| 3182.0 | H | - | - | -79.06 | 4.14 | 32.08 | -63.18 | -13.00 | -50.18 |

Table 7-27. Antenna 1 Radiated Spurious Data (LTE Band 14 – High Channel)

| | | | |
|---|---|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 |  PART 90 MEASUREMENT REPORT | | Approved by: Technical Manager |
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NR Band n14

| | |
|--------------------|--------|
| Bandwidth (MHz): | 5 |
| Frequency (MHz): | 790.5 |
| Modulation Signal: | QPSK |
| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1581.0 | H | - | - | -77.53 | -1.89 | 27.58 | -67.68 | -13.00 | -54.68 |
| 2371.5 | H | - | - | -78.43 | 2.40 | 30.97 | -64.28 | -13.00 | -51.28 |
| 3162.0 | H | - | - | -78.73 | 4.22 | 32.49 | -62.76 | -13.00 | -49.76 |

Table 7-28. Antenna 1 Radiated Spurious Data (NR Band n14 – Low Channel)

| | |
|--------------------|--------|
| Bandwidth (MHz): | 10 |
| Frequency (MHz): | 793.0 |
| Modulation Signal: | QPSK |
| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1586.0 | H | - | - | -77.50 | -1.90 | 27.60 | -67.65 | -13.00 | -54.65 |
| 2379.0 | H | - | - | -78.35 | 2.54 | 31.19 | -64.07 | -13.00 | -51.07 |
| 3172.0 | H | - | - | -78.84 | 4.00 | 32.16 | -63.10 | -13.00 | -50.10 |

Table 7-29. Antenna 1 Radiated Spurious Data (NR Band n14 – Mid Channel)

| | |
|--------------------|--------|
| Bandwidth (MHz): | 5 |
| Frequency (MHz): | 795.5 |
| Modulation Signal: | QPSK |
| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1591.0 | H | - | - | -77.79 | -1.90 | 27.31 | -67.95 | -13.00 | -54.95 |
| 2386.5 | H | - | - | -78.36 | 2.68 | 31.32 | -63.94 | -13.00 | -50.94 |
| 3182.0 | H | - | - | -78.96 | 3.98 | 32.02 | -63.24 | -13.00 | -50.24 |

Table 7-30. Antenna 1 Radiated Spurious Data (NR Band n14 – High Channel)

| | | | | |
|---|---|----------------------------|--|-----------------------------------|
| FCC ID: BCGA2435 |  | PART 90 MEASUREMENT REPORT | | Approved by: Technical Manager |
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NR Band n26

| | |
|--------------------|--------|
| Bandwidth (MHz): | 5 |
| Frequency (MHz): | 816.5 |
| Modulation Signal: | QPSK |
| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1633.0 | H | - | - | -77.57 | -1.88 | 27.55 | -67.71 | -13.00 | -54.71 |
| 2449.5 | H | - | - | -78.26 | 2.99 | 31.73 | -63.53 | -13.00 | -50.53 |
| 3266.0 | H | - | - | -79.48 | 4.70 | 32.22 | -63.04 | -13.00 | -50.04 |

Table 7-31. Antenna 1 Radiated Spurious Data (NR Band n26 – Low Channel)

| | |
|--------------------|--------|
| Bandwidth (MHz): | 10 |
| Frequency (MHz): | 819.0 |
| Modulation Signal: | QPSK |
| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1638.0 | H | - | - | -77.69 | -1.86 | 27.45 | -67.81 | -13.00 | -54.81 |
| 2457.0 | H | - | - | -78.39 | 3.03 | 31.64 | -63.62 | -13.00 | -50.62 |
| 3276.0 | H | - | - | -79.45 | 4.74 | 32.29 | -62.97 | -13.00 | -49.97 |

Table 7-32. Antenna 1 Radiated Spurious Data (NR Band n26 – Mid Channel)

| | |
|--------------------|--------|
| Bandwidth (MHz): | 5 |
| Frequency (MHz): | 821.5 |
| Modulation Signal: | QPSK |
| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1643.0 | H | - | - | -77.76 | -1.84 | 27.40 | -67.86 | -13.00 | -54.86 |
| 2464.5 | H | - | - | -78.56 | 3.06 | 31.50 | -63.76 | -13.00 | -50.76 |
| 3286.0 | H | - | - | -79.56 | 4.83 | 32.27 | -62.99 | -13.00 | -49.99 |

Table 7-33. Antenna 1 Radiated Spurious Data (NR Band n26 – High Channel)

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

\$2.1055 \$90.213

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 Band 26, the frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency. For Band 14 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

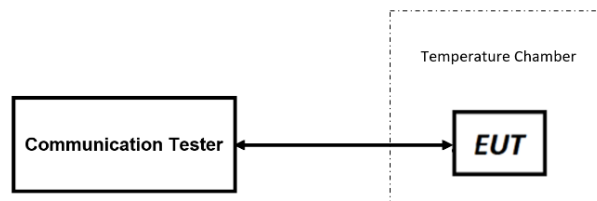



Figure 7-8. Test Instrument & Measurement Setup

Test Notes


All ports were tested and only the worst case data were reported.

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

| LTE Band 26 | | | | | |
|------------------|-------------|---------------------------|----------------|-----------------------|---------------|
| | | Operating Frequency (Hz): | | 819,000,000 | |
| | | Ref. Voltage (VDC): | | 3.80 | |
| | | Deviation Limit: | | ± 0.00025% or 2.5 ppm | |
| Voltage (%) | Power (VDC) | Temp (°C) | Frequency (Hz) | Freq. Dev. (Hz) | Deviation (%) |
| 100 % | 3.80 | - 30 | 818,999,996 | -4 | -0.0000005 |
| | | - 20 | 819,000,001 | 1 | 0.0000001 |
| | | - 10 | 819,000,001 | 1 | 0.0000001 |
| | | 0 | 819,000,000 | 0 | 0.0000000 |
| | | + 10 | 818,999,998 | -2 | -0.0000002 |
| | | + 20 (Ref) | 819,000,000 | 0 | 0.0000000 |
| | | + 30 | 818,999,997 | -3 | -0.0000004 |
| | | + 40 | 819,000,001 | 1 | 0.0000001 |
| | | + 50 | 819,000,001 | 1 | 0.0000001 |
| Battery Endpoint | 3.23 | + 20 | 819,000,000 | 0 | 0.0000000 |

Table 7-34. LTE Band 26 Frequency Stability Data


| | | | |
|---|---|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 |  PART 90 MEASUREMENT REPORT | | Approved by: Technical Manager |
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LTE Band 14

| | |
|------------------------------|-------------|
| Low Channel Frequency (Hz): | 790,500,000 |
| High Channel Frequency (Hz): | 795,500,000 |
| Ref. Voltage (VDC): | 3.80 |

| Voltage (%) | Power (VDC) | Temp (°C) | Low Freq. (Hz) | High Freq. (Hz) | Low Freq. Dev. (Hz) | High Freq. Dev. (Hz) | Deviation (%) |
|------------------|-------------|------------|----------------|-----------------|---------------------|----------------------|---------------|
| 100 % | 3.80 | - 30 | 790,500,000 | 795,500,001 | 0 | 1 | 0.0000001 |
| | | - 20 | 790,499,997 | 795,500,000 | -3 | 0 | -0.0000004 |
| | | - 10 | 790,500,001 | 795,500,001 | 1 | 1 | 0.0000001 |
| | | 0 | 790,500,000 | 795,499,999 | 0 | -1 | -0.0000001 |
| | | + 10 | 790,499,999 | 795,499,999 | -1 | -1 | -0.0000001 |
| | | + 20 (Ref) | 790,500,000 | 795,500,000 | 0 | 0 | 0.0000000 |
| | | + 30 | 790,500,001 | 795,500,002 | 1 | 2 | 0.0000003 |
| | | + 40 | 790,500,002 | 795,500,000 | 2 | 0 | 0.0000003 |
| | | + 50 | 790,499,999 | 795,499,997 | -1 | -3 | -0.0000004 |
| Battery Endpoint | 3.23 | + 20 | 790,499,998 | 795,499,997 | -2 | -3 | -0.0000004 |

Table 7-35. LTE Band 14 Frequency Stability Data


| | | | |
|---|---|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 |  PART 90 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1C2205090025-09.BCG | Test Dates: 05/30/2022 - 09/09/2022 | EUT Type: Tablet Device | Page 98 of 101 |

NR Band n14

| | |
|------------------------------|-------------|
| Low Channel Frequency (Hz): | 790,500,000 |
| High Channel Frequency (Hz): | 795,500,000 |
| Ref. Voltage (VDC): | 3.80 |

| Voltage (%) | Power (VDC) | Temp (°C) | Low Freq. (Hz) | High Freq. (Hz) | Low Freq. Dev. (Hz) | High Freq. Dev. (Hz) | Deviation (%) |
|------------------|-------------|------------|----------------|-----------------|---------------------|----------------------|---------------|
| 100 % | 3.80 | - 30 | 790,499,790 | 795,499,709 | -103 | -127 | -0.0000160 |
| | | - 20 | 790,499,793 | 795,499,735 | -100 | -101 | -0.0000127 |
| | | - 10 | 790,499,708 | 795,499,706 | -185 | -130 | -0.0000234 |
| | | 0 | 790,499,759 | 795,499,719 | -134 | -117 | -0.0000170 |
| | | + 10 | 790,499,778 | 795,499,695 | -115 | -141 | -0.0000177 |
| | | + 20 (Ref) | 790,499,893 | 795,499,836 | 0 | 0 | 0.0000000 |
| | | + 30 | 790,499,793 | 795,499,667 | -100 | -169 | -0.0000212 |
| | | + 40 | 790,499,708 | 795,499,697 | -185 | -139 | -0.0000234 |
| | | + 50 | 790,499,795 | 795,499,717 | -98 | -119 | -0.0000150 |
| Battery Endpoint | 3.23 | + 20 | 790,499,714 | 795,499,680 | -179 | -156 | -0.0000226 |

Table 7-36. NR Band n14 Frequency Stability Data


| | | | |
|---|---|----------------------------|-----------------------------------|
| FCC ID: BCGA2435 |  PART 90 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1C2205090025-09.BCG | Test Dates: 05/30/2022 - 09/09/2022 | EUT Type: Tablet Device | Page 99 of 101 |

NR Band n26

| | |
|---------------------------|-----------------------|
| Operating Frequency (Hz): | 819,000,000 |
| Ref. Voltage (VDC): | 3.80 |
| Deviation Limit: | ± 0.00025% or 2.5 ppm |


| Voltage (%) | Power (VDC) | Temp (°C) | Frequency (Hz) | Freq. Dev. (Hz) | Deviation (%) |
|------------------|-------------|------------|----------------|-----------------|---------------|
| 100 % | 3.80 | - 30 | 818,999,675 | -151 | -0.0000184 |
| | | - 20 | 818,999,715 | -111 | -0.0000136 |
| | | - 10 | 818,999,720 | -106 | -0.0000129 |
| | | 0 | 818,999,657 | -169 | -0.0000206 |
| | | + 10 | 818,999,671 | -155 | -0.0000189 |
| | | + 20 (Ref) | 818,999,826 | 0 | 0.0000000 |
| | | + 30 | 818,999,707 | -119 | -0.0000145 |
| | | + 40 | 818,999,677 | -149 | -0.0000182 |
| | | + 50 | 818,999,661 | -165 | -0.0000201 |
| Battery Endpoint | 3.23 | + 20 | 818,999,727 | -99 | -0.0000121 |

Table 7-37. NR Band n26 Frequency Stability Data

| | | |
|---|--|-----------------------------------|
| FCC ID: BCGA2435 |  PART 90 MEASUREMENT REPORT | Approved by: Technical Manager |
| Test Report S/N: 1C2205090025-09.BCG | Test Dates: 05/30/2022 - 09/09/2022 | EUT Type: Tablet Device |

8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Apple Tablet Device** **FCC ID: BCGA2435** complies with all the requirements of Part 90 of the FCC rules.

| | | | |
|--|---|-----------------------------------|--|
| FCC ID: BCGA2435 |  PART 90 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1C2205090025-09.BCG | Test Dates: 05/30/2022 - 09/09/2022 | EUT Type: Tablet Device | Page 101 of 101 |