

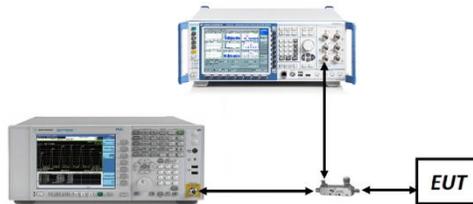
**Measurement of Peak Power Spectral Density (PSD) with a spectrum/signal analyzer or EMI receiver:**

The following procedure can be used with a spectrum/signal analyzer or EMI receiver to determine the PPSD.

1. Set the analyzer center frequency to the OBW center frequency.
2. Set the span to 2 x to 3 x the OBW.
3. Set the RBW to the specified reference bandwidth
4. Set the VBW  $\geq 3 \times$  RBW.
5. Set number of measurement points in sweep  $\geq 2 \times$  span / RBW.
6. Sweep time  $\geq 10 \times$  (number of points in sweep)  $\times$  (transmission symbol period).
7. Trace mode = max hold.
8. Detector = peak.
9. Allow trace to fully stabilize.
10. Use the peak marker function to determine the maximum amplitude level within the specified reference bandwidth (PSD).

**Test Setup**

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



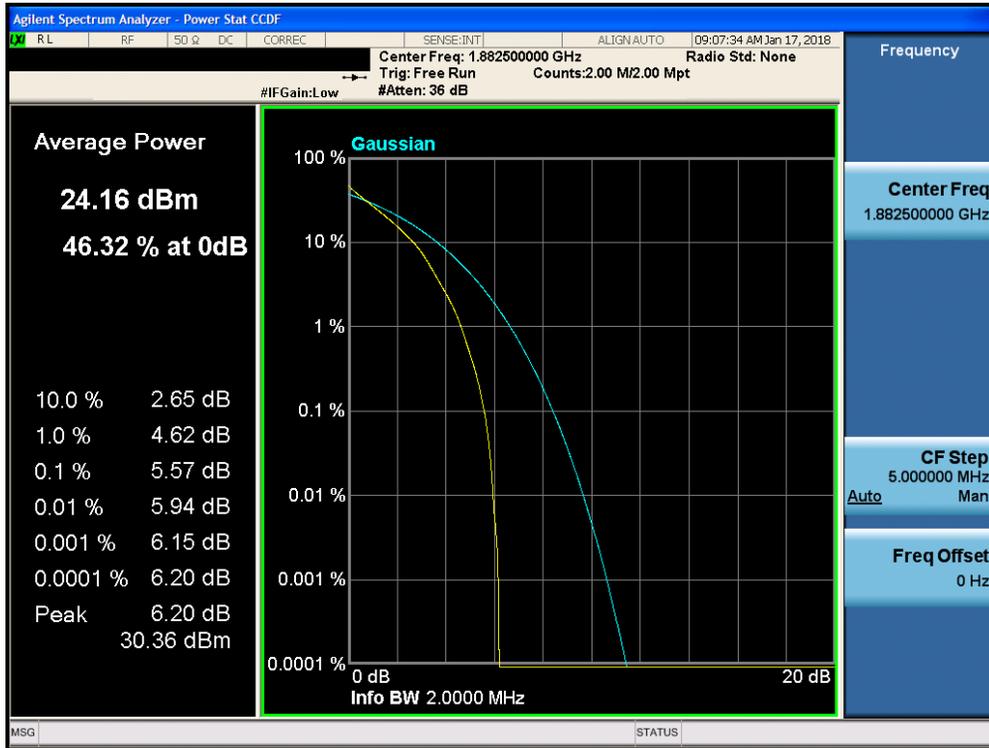
**Figure 7-4. Test Instrument & Measurement Setup**

**Test Notes**

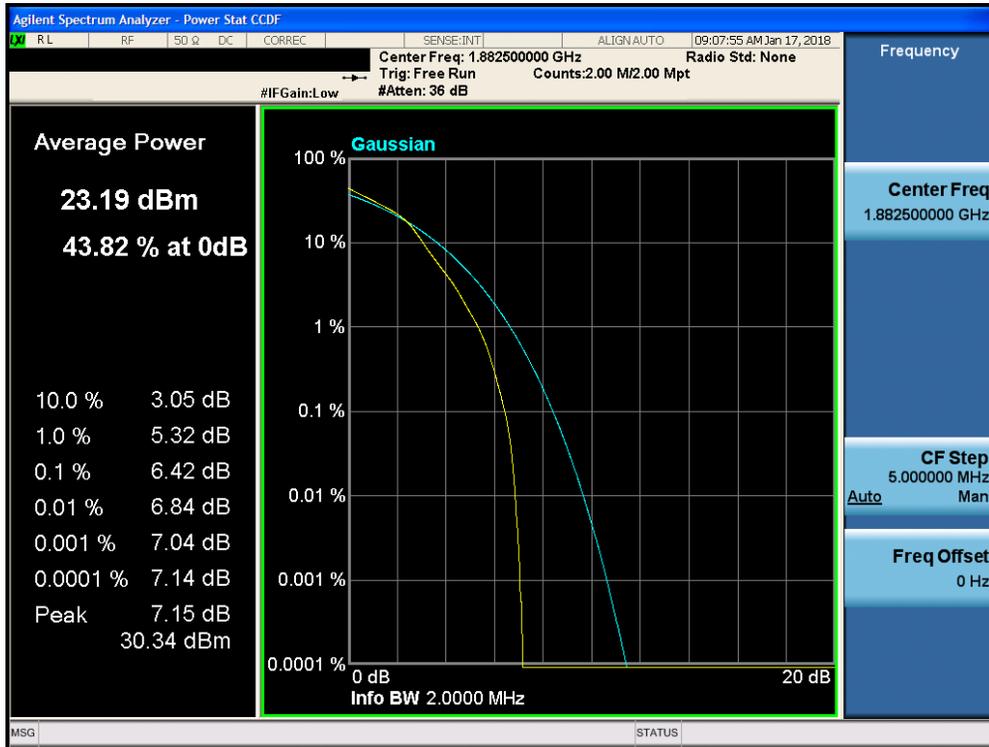
None.

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 187 of 260                 |

**Band 25**

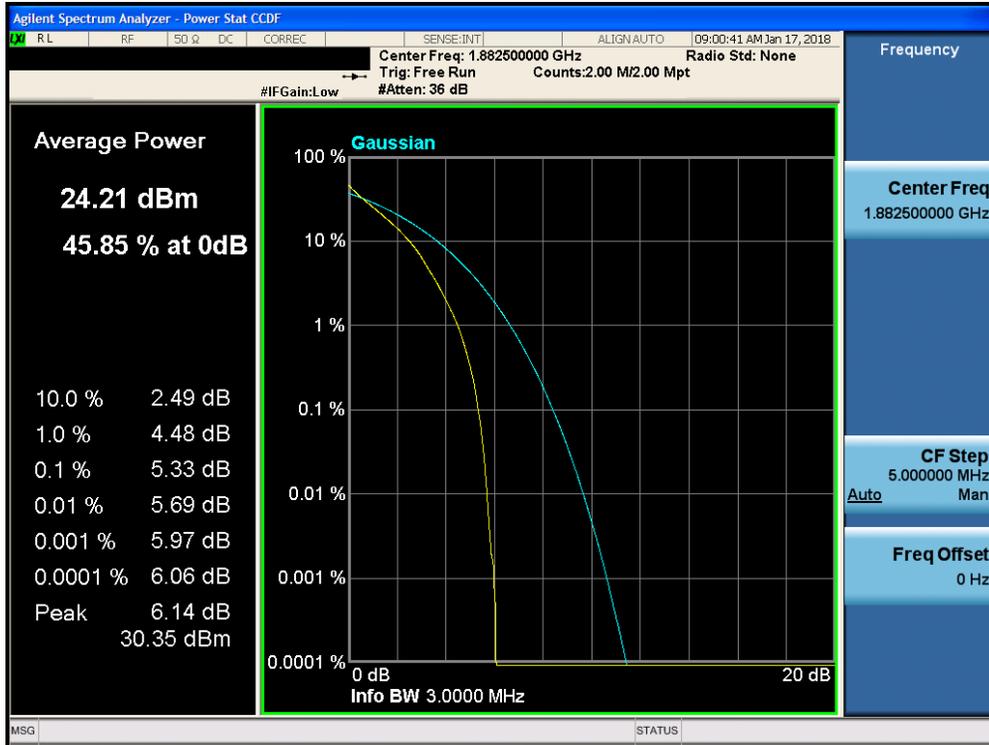


**Plot 7-320. PAR Plot (Band 25 - 1.4MHz QPSK - Full RB Configuration)**

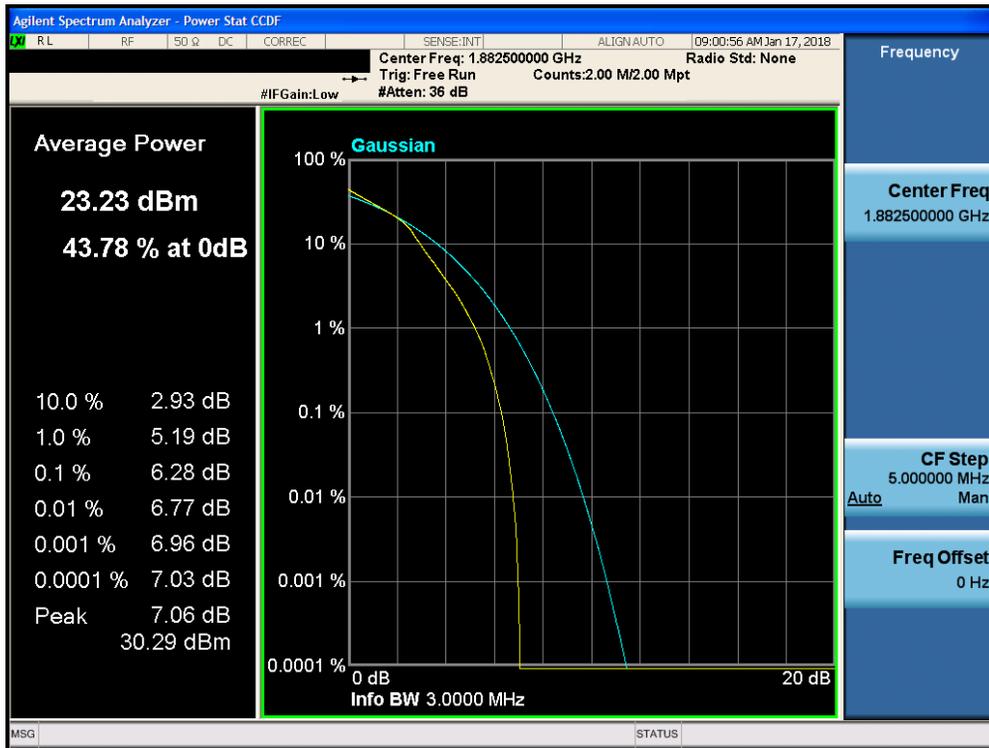


**Plot 7-321. PAR Plot (Band 25 - 1.4MHz 16-QAM - Full RB Configuration)**

|  |                                     |   |                                 |
|--|-------------------------------------|---|---------------------------------|
| FCC ID: BCGA1954                           |                                     | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018 | EUT Type:<br>Tablet Device                    | Page 188 of 260                 |

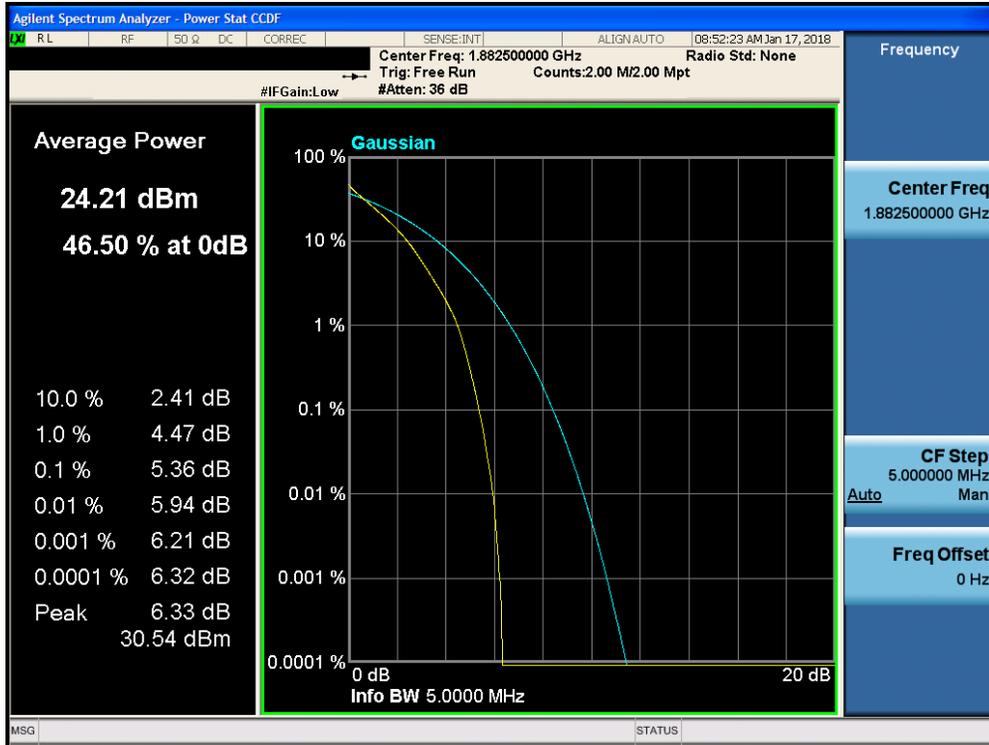


**Plot 7-322. PAR Plot (Band 25 - 3.0MHz QPSK - Full RB Configuration)**

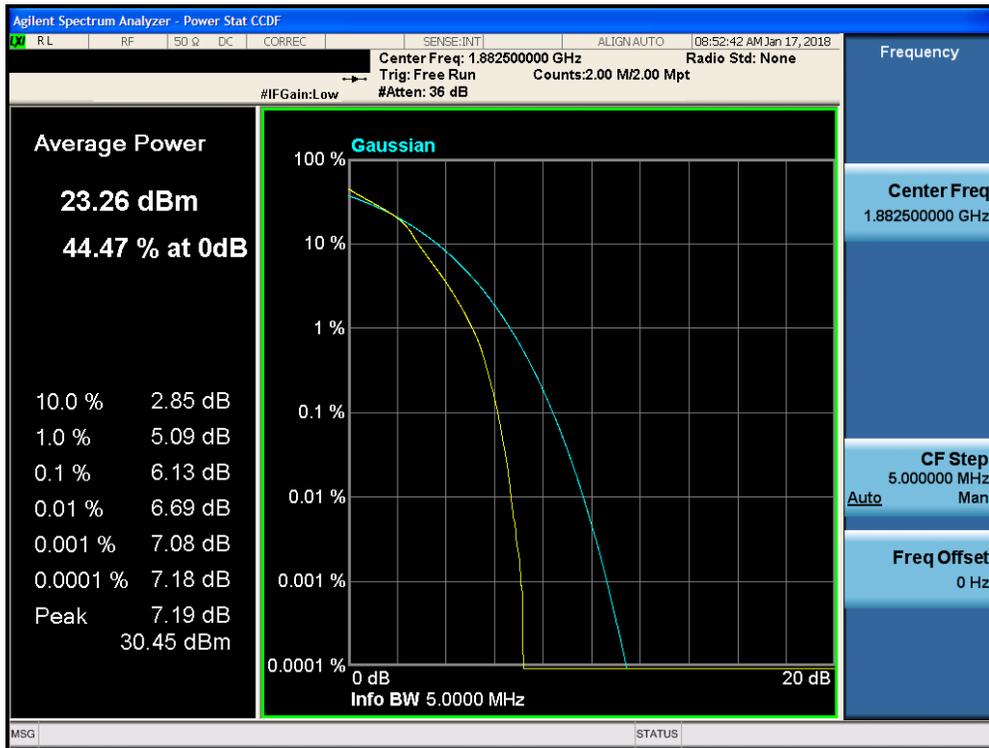


**Plot 7-323. PAR Plot (Band 25 - 3.0MHz 16-QAM - Full RB Configuration)**

|  |                                     |   |                                 |
|--|-------------------------------------|---|---------------------------------|
| FCC ID: BCGA1954                           |                                     | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018 | EUT Type:<br>Tablet Device                    | Page 189 of 260                 |

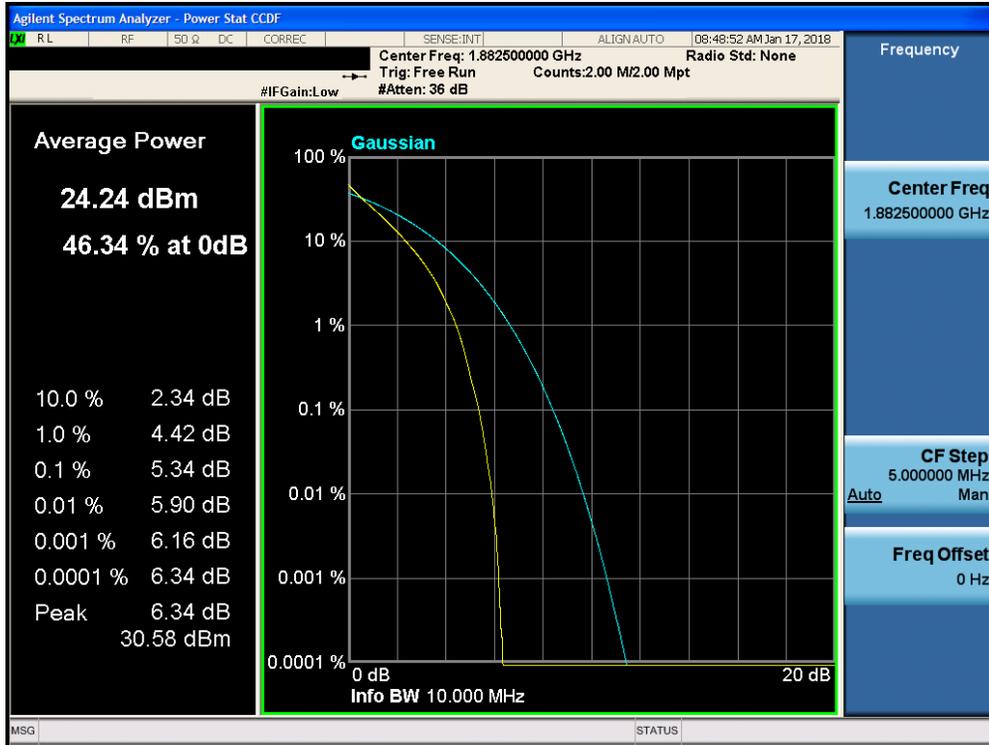


**Plot 7-324. PAR Plot (Band 25 - 5.0MHz QPSK - Full RB Configuration)**

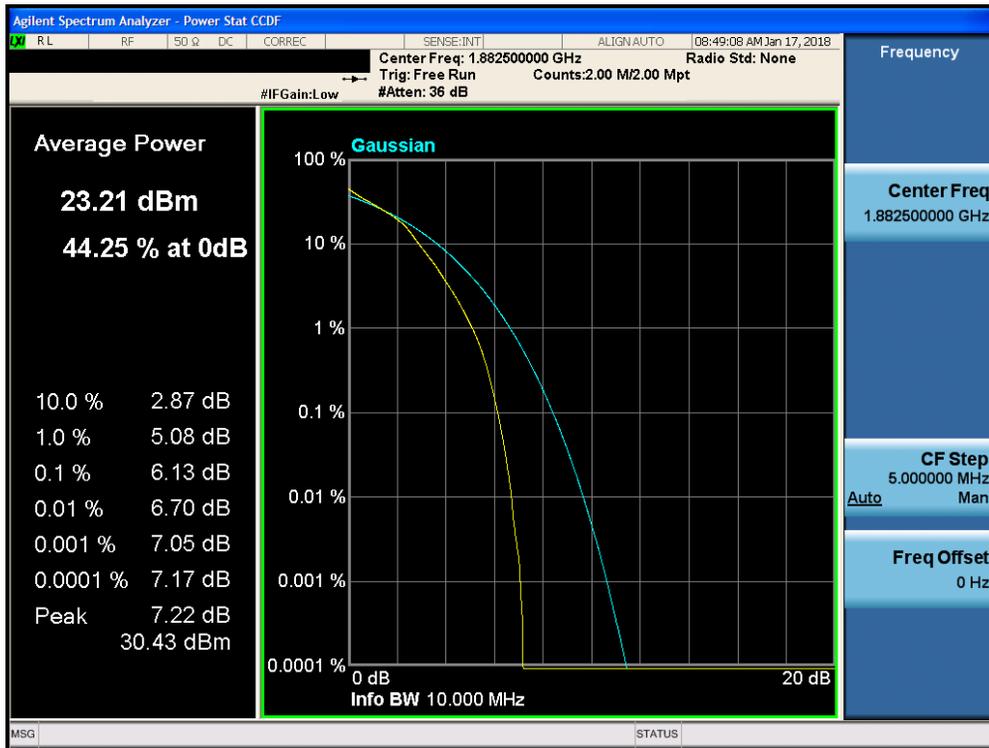


**Plot 7-325. PAR Plot (Band 25 - 5.0MHz 16-QAM - Full RB Configuration)**

|  |                                     |   |                                 |
|--|-------------------------------------|---|---------------------------------|
| FCC ID: BCGA1954                           |                                     | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018 | EUT Type:<br>Tablet Device                    | Page 190 of 260                 |

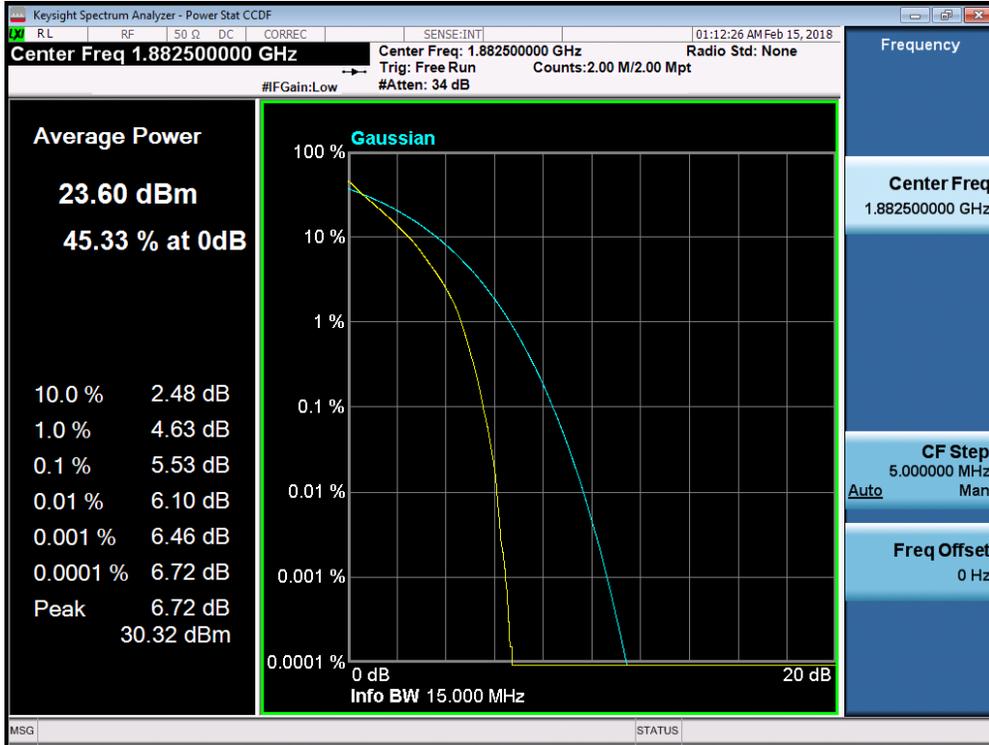


**Plot 7-326. PAR Plot (Band 25 - 10.0MHz QPSK - Full RB Configuration)**

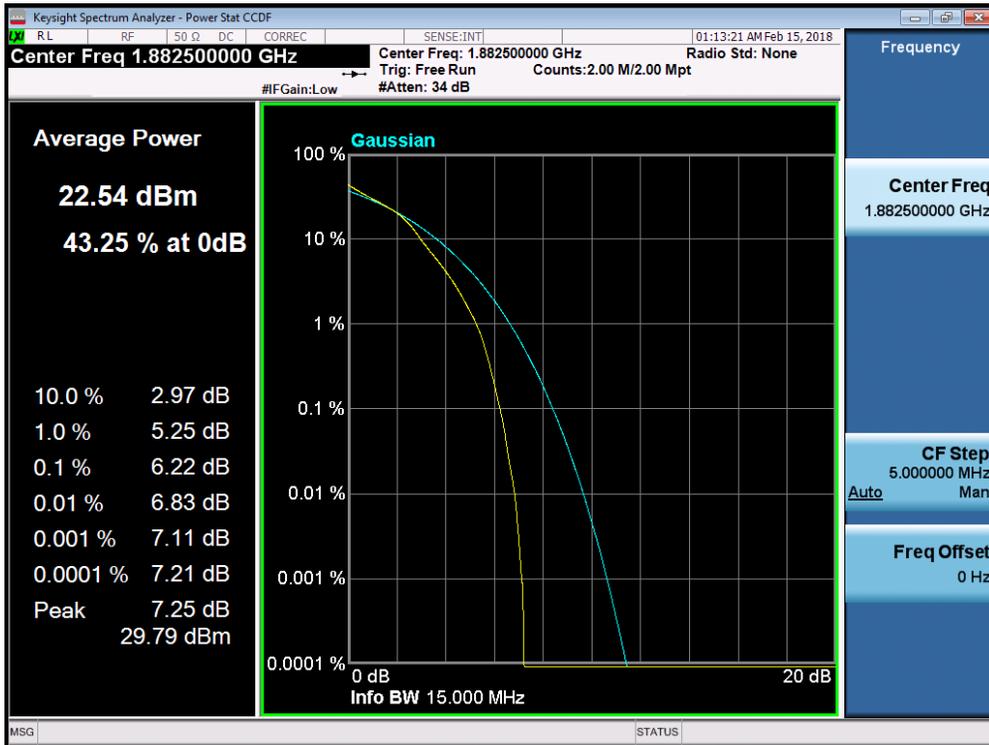


**Plot 7-327. PAR Plot (Band 25 - 10.0MHz 16-QAM - Full RB Configuration)**

|  |                                     |   |                                 |
|--|-------------------------------------|---|---------------------------------|
| FCC ID: BCGA1954                           |                                     | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018 | EUT Type:<br>Tablet Device                    | Page 191 of 260                 |

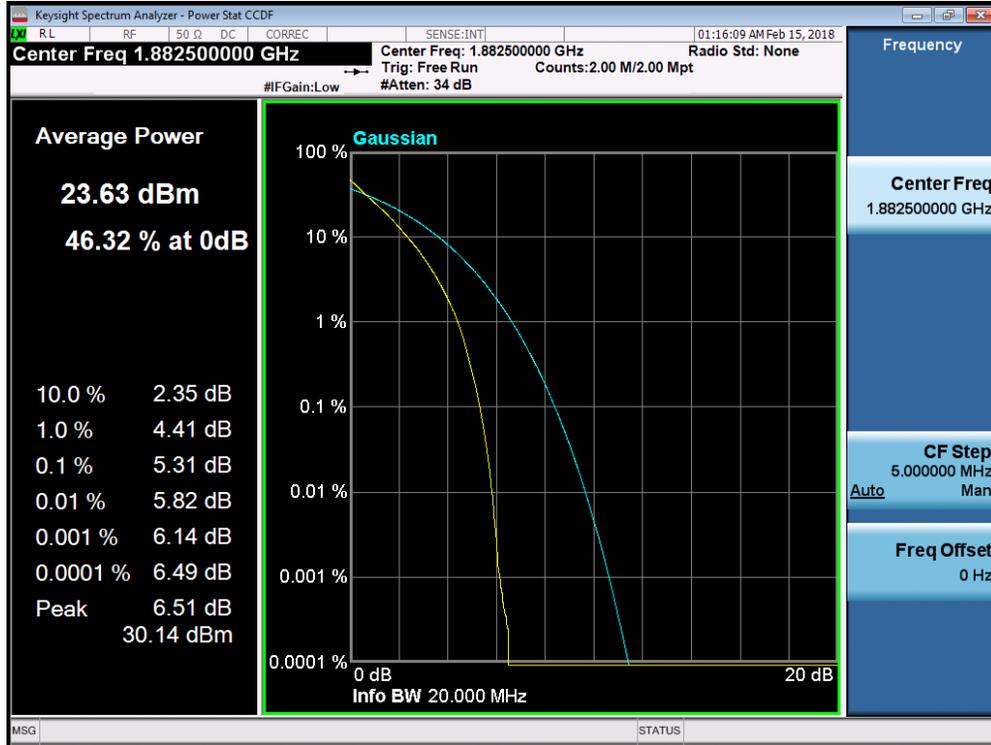


Plot 7-328. PAR Plot (Band 25 - 15.0MHz QPSK - Full RB Configuration)

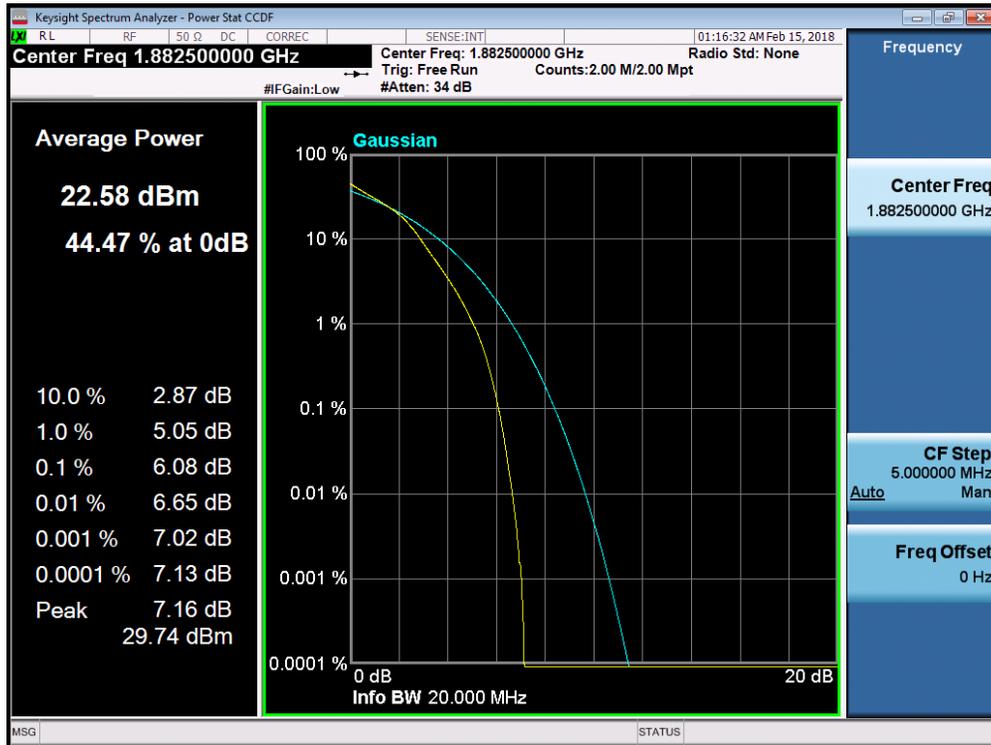


Plot 7-329. PAR Plot (Band 25 - 15.0MHz 16-QAM - Full RB Configuration)

|  |                                     |   |                                 |
|--|-------------------------------------|---|---------------------------------|
| FCC ID: BCGA1954                           |                                     | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018 | EUT Type:<br>Tablet Device                    | Page 192 of 260                 |



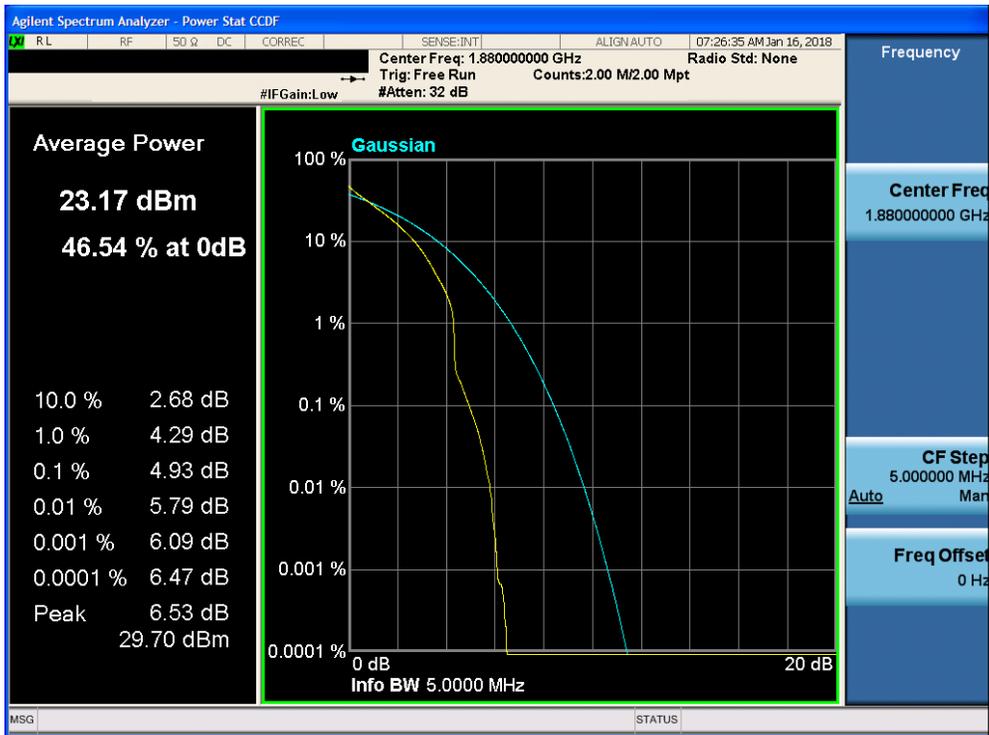
Plot 7-330. PAR Plot (Band 25 - 20.0MHz QPSK - Full RB Configuration)



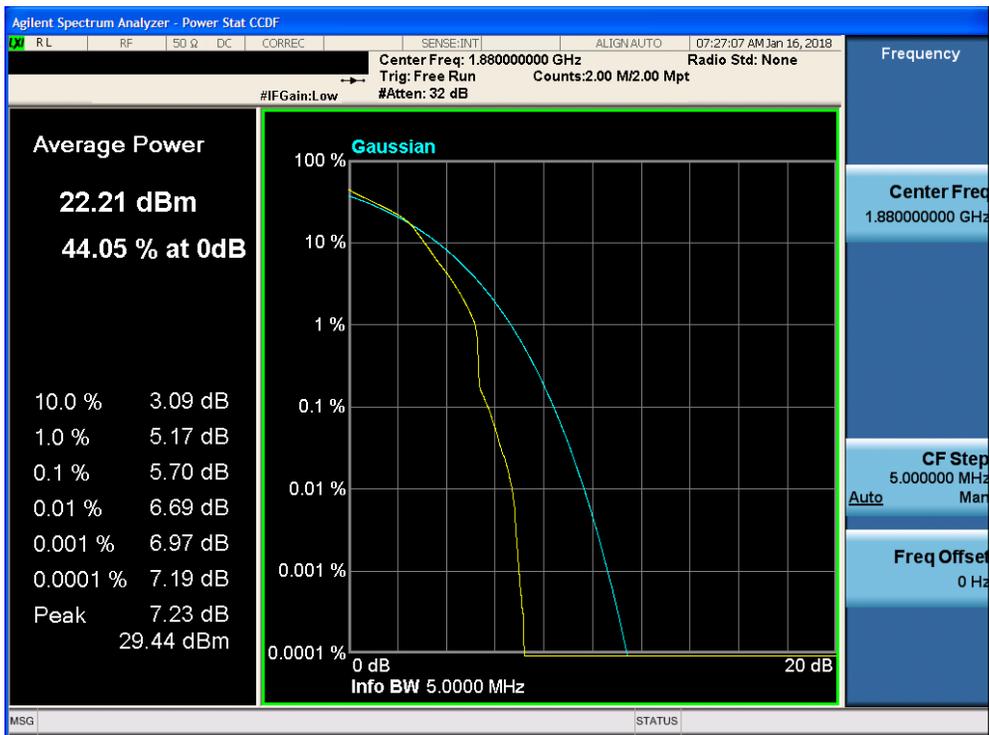
Plot 7-331. PAR Plot (Band 25 - 20.0MHz 16-QAM - Full RB Configuration)

|  |                                     |                                       |                                 |
|--|-------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCGA1954                           |                                     | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018 | EUT Type:<br>Tablet Device            | Page 193 of 260                 |

**Band 2**

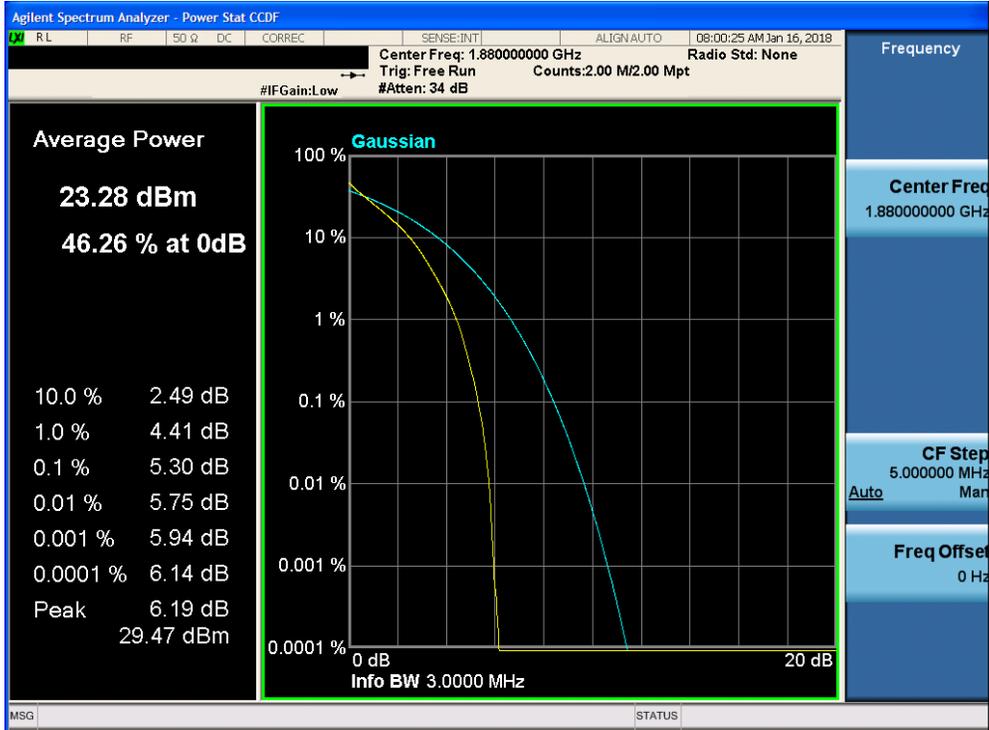


**Plot 7-332. PAR Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)**

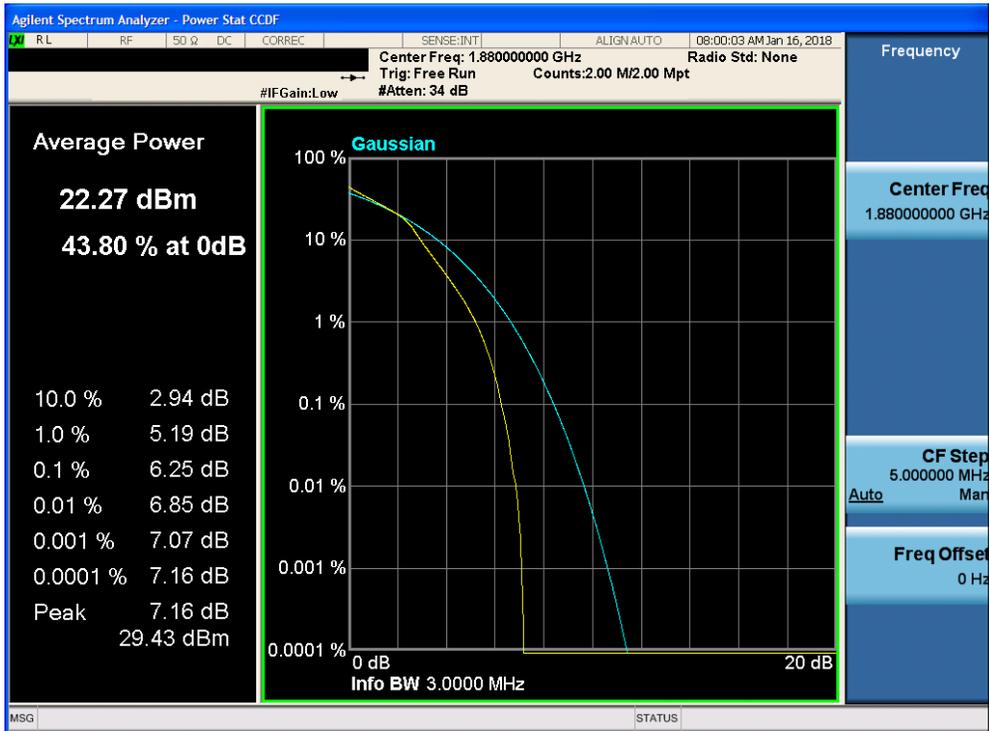


**Plot 7-333. PAR Plot (Band 2 - 1.4MHz 16-QAM - Full RB Configuration)**

|  |                                     |   |                                 |
|--|-------------------------------------|---|---------------------------------|
| FCC ID: BCGA1954                           |                                     | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018 | EUT Type:<br>Tablet Device                    | Page 194 of 260                 |

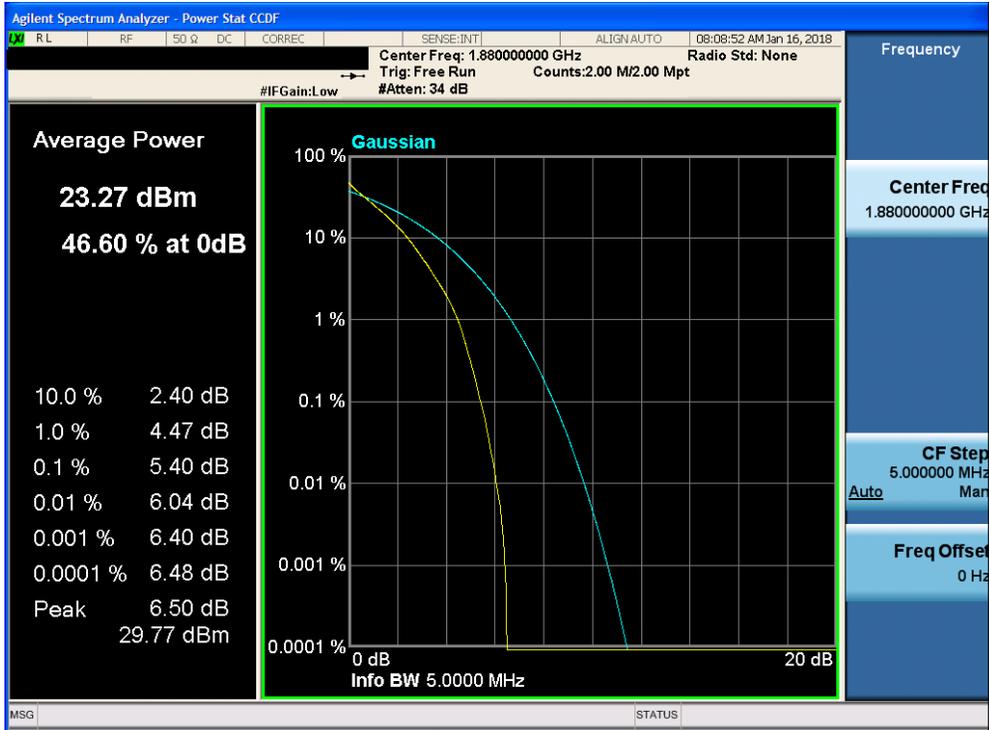


Plot 7-334. PAR Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

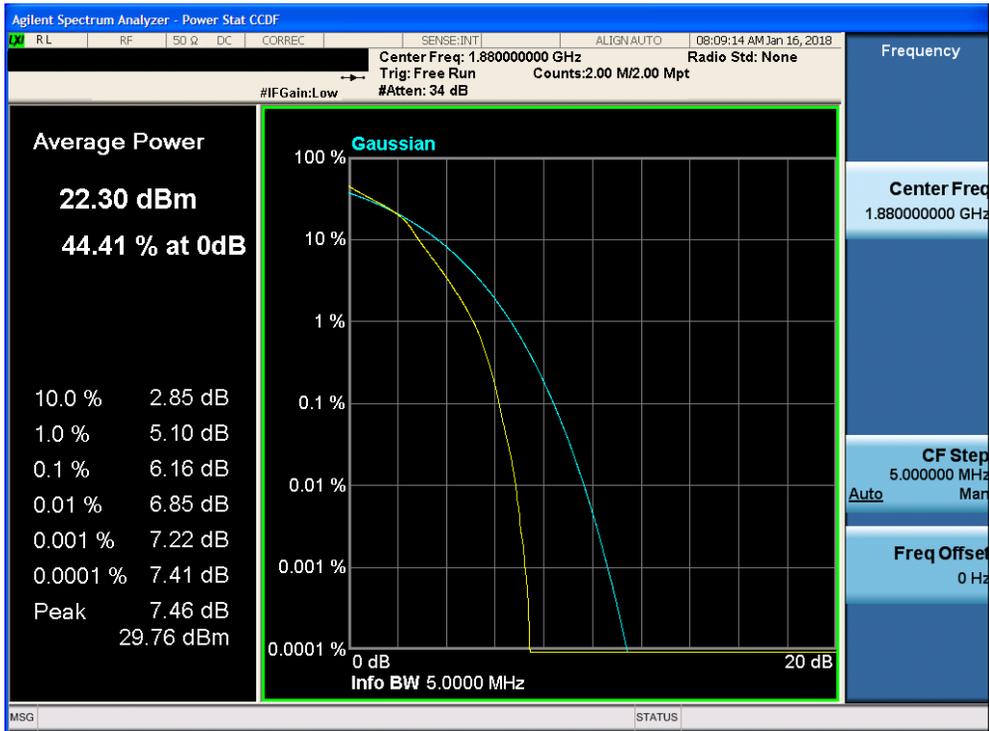


Plot 7-335. PAR Plot (Band 2 - 3.0MHz 16-QAM - Full RB Configuration)

|  |                                     |   |                                 |
|--|-------------------------------------|---|---------------------------------|
| FCC ID: BCGA1954                           |                                     | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018 | EUT Type:<br>Tablet Device                    | Page 195 of 260                 |

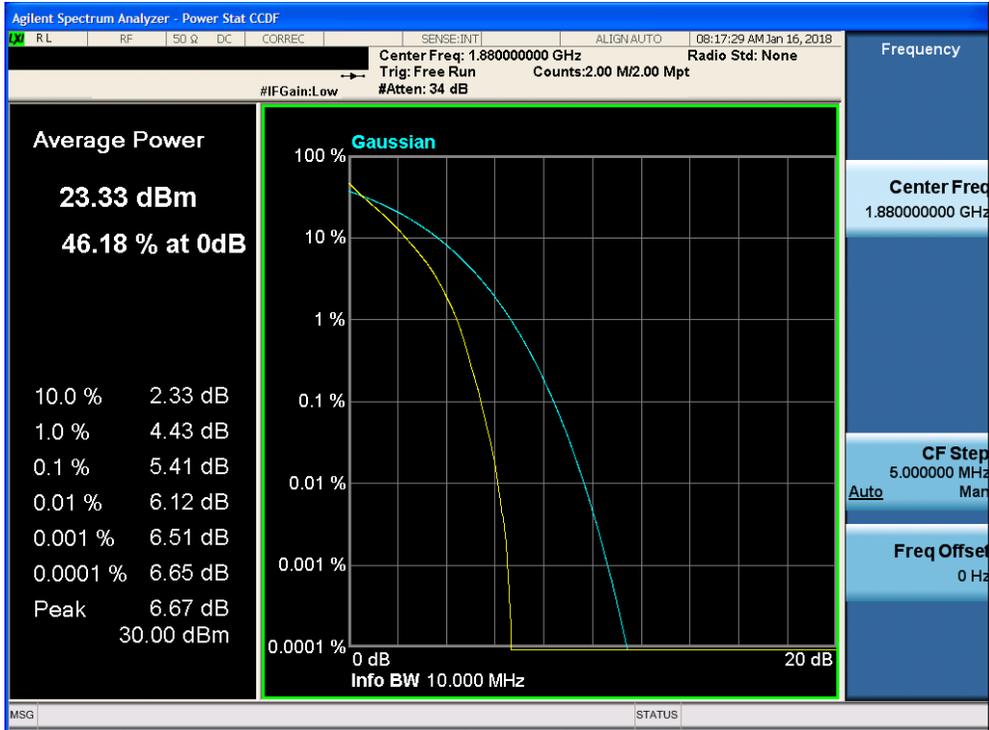


**Plot 7-336. PAR Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)**

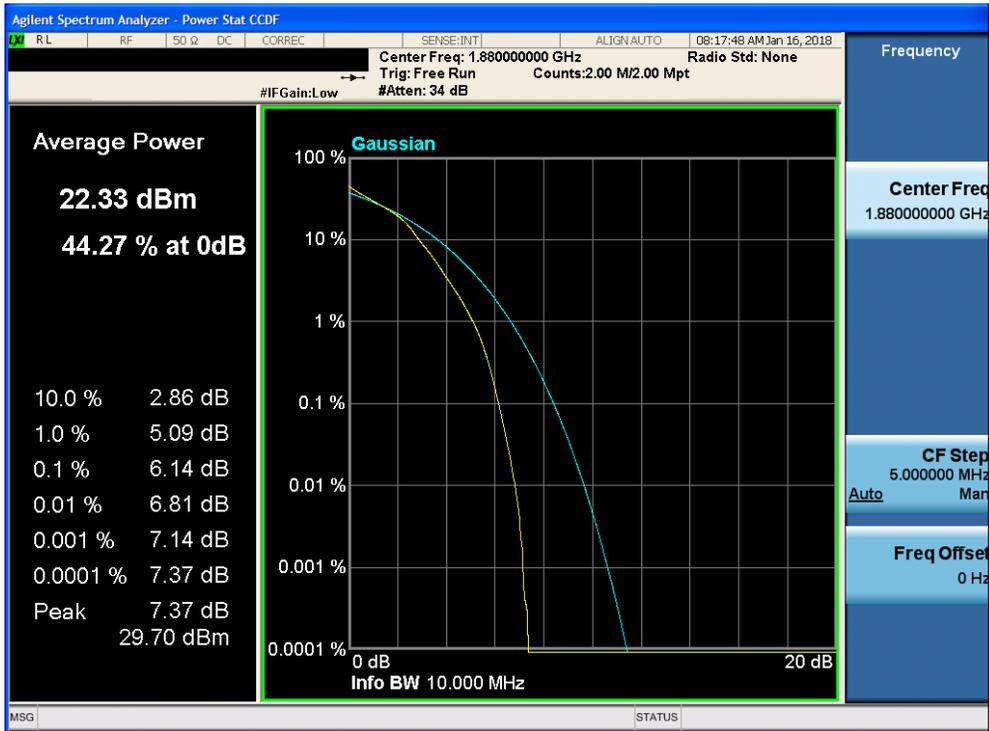


**Plot 7-337. PAR Plot (Band 2 - 5.0MHz 16-QAM - Full RB Configuration)**

|  |                                     |   |                                 |
|--|-------------------------------------|---|---------------------------------|
| FCC ID: BCGA1954                           |                                     | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018 | EUT Type:<br>Tablet Device                    | Page 196 of 260                 |

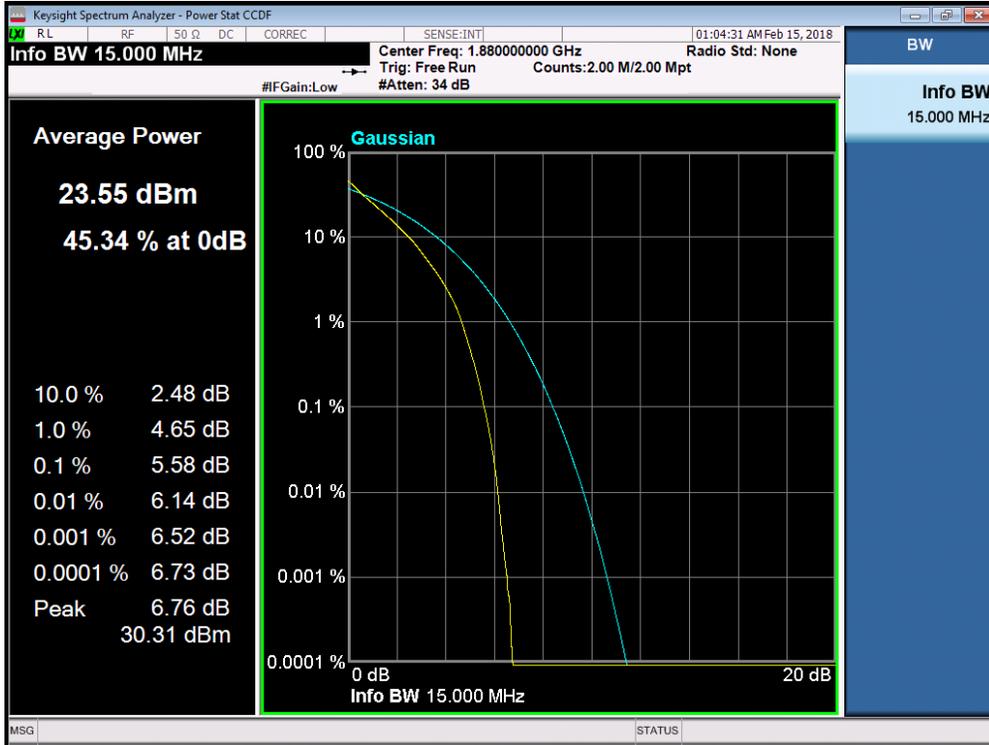


Plot 7-338. PAR Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

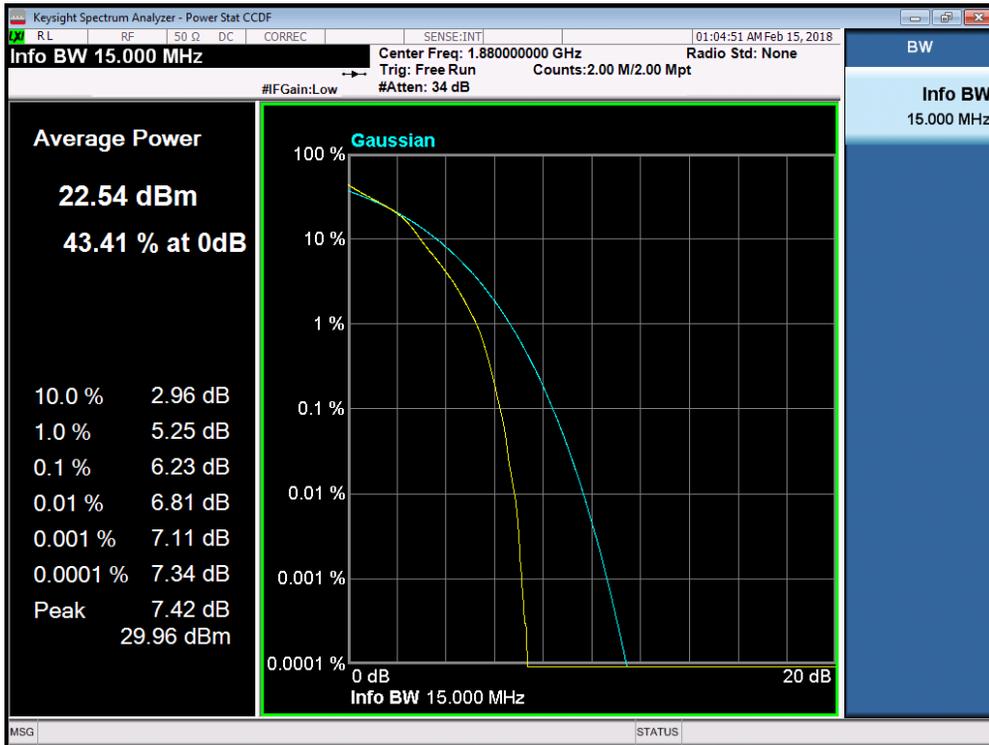


Plot 7-339. PAR Plot (Band 2 - 10.0MHz 16-QAM - Full RB Configuration)

|  |                                     |                                       |                                 |
|--|-------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCGA1954                           |                                     | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018 | EUT Type:<br>Tablet Device            | Page 197 of 260                 |

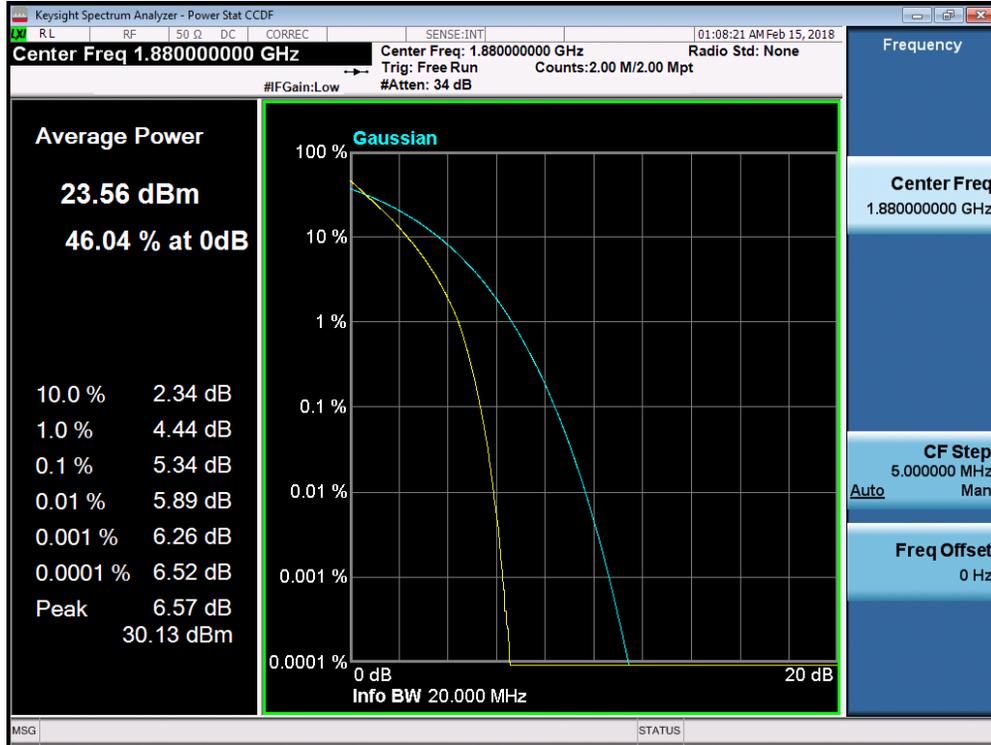


**Plot 7-340. PAR Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)**

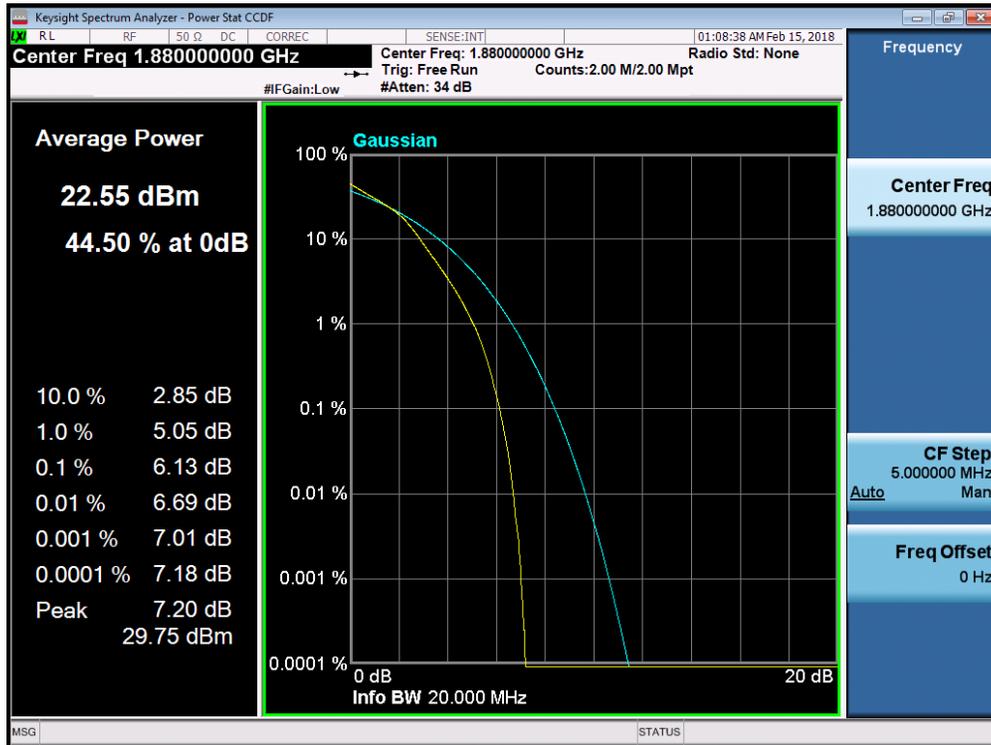


**Plot 7-341. PAR Plot (Band 2 - 15.0MHz 16-QAM - Full RB Configuration)**

|  |                                     |   |                                 |
|--|-------------------------------------|---|---------------------------------|
| FCC ID: BCGA1954                           |                                     | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018 | EUT Type:<br>Tablet Device                    | Page 198 of 260                 |



Plot 7-342. PAR Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-343. PAR Plot (Band 2 - 20.0MHz 16-QAM - Full RB Configuration)

|  |                                     |                                       |                                 |
|--|-------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCGA1954                           |                                     | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018 | EUT Type:<br>Tablet Device            | Page 199 of 260                 |

## 7.6 ERP/EIRP

§22.913(a)(2) §24.232(c.2) §27.50(h)(2) §27.50(b)(10) §27.50(c)(10) §27.50(d)(4) §27.50(a)(3)

### Test Overview

Effective Radiated Power (ERP) is specified when the operating frequency is less than or equal to 1 GHz and Equivalent Isotropic Radiated Power (EIRP) is specified when the operating frequency is greater than 1 GHz. Both are determined by adding the transmit antenna gain to the conducted RF output power with the primary difference between the two being that when determining the ERP, the transmit antenna gain is referenced to a dipole antenna (i.e., dBd) whereas when determining the EIRP, the transmit antenna gain is referenced to an isotropic antenna (dBi).

### Test Procedures Used

KDB 971168 D01 v03 – Section 5.6

### Test Settings

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

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

Where:

ERP/EIRP = effective or equivalent 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: BCGA1954                           |  | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |  | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device                    |  | Page 200 of 260                 |

**Test Notes**

- 1) The worst case emissions are reported with the EUT modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2) This unit was tested with its standard battery.
- 3) The Level (dBm) readings in the table were taken with a correction table loaded into the base station simulator. The correction table was used to account for the signal attenuation in the connecting cable between the transmitter and antenna.
- 4) The Ant. Gains (GT) are listed in dBi.

|   |   |                                   |  |
|---|---|-----------------------------------|--|
| FCC ID: BCGA1954                                  |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                                   | <b>Approved by:</b><br>Quality Manager |
| <b>Test Report S/N:</b><br>1C1710060006-03-R2.BCG | <b>Test Dates:</b><br>10/31/2017-2/15/2018  | <b>EUT Type:</b><br>Tablet Device | Page 201 of 260                        |

| Frequency [MHz] | Channel Bandwidth [MHz] | Mod.   | Conducted Power [dBm] | Ant. Gain [dBi] | ERP [dBm] | ERP [Watts] | ERP Limit [dBm] | Margin [dB] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|-----------------|-------------------------|--------|-----------------------|-----------------|-----------|-------------|-----------------|-------------|------------|--------------|------------------|-------------|
| 699.70          | 1.4                     | QPSK   | 24.79                 | -1.44           | 21.20     | 0.132       | 34.77           | -13.57      | 23.35      | 0.216        | 36.99            | -13.64      |
| 707.50          | 1.4                     | QPSK   | 24.63                 | -1.44           | 21.04     | 0.127       | 34.77           | -13.73      | 23.19      | 0.208        | 36.99            | -13.80      |
| 715.30          | 1.4                     | QPSK   | 24.57                 | -1.44           | 20.98     | 0.125       | 34.77           | -13.79      | 23.13      | 0.206        | 36.99            | -13.86      |
| 699.70          | 1.4                     | 16-QAM | 23.76                 | -1.44           | 20.17     | 0.104       | 34.77           | -14.60      | 22.32      | 0.171        | 36.99            | -14.67      |
| 700.50          | 3                       | QPSK   | 24.55                 | -1.44           | 20.96     | 0.125       | 34.77           | -13.81      | 23.11      | 0.205        | 36.99            | -13.88      |
| 707.50          | 3                       | QPSK   | 24.42                 | -1.44           | 20.83     | 0.121       | 34.77           | -13.94      | 22.98      | 0.199        | 36.99            | -14.01      |
| 714.50          | 3                       | QPSK   | 24.62                 | -1.44           | 21.03     | 0.127       | 34.77           | -13.74      | 23.18      | 0.208        | 36.99            | -13.81      |
| 714.50          | 3                       | 16-QAM | 23.81                 | -1.44           | 20.22     | 0.105       | 34.77           | -14.55      | 22.37      | 0.173        | 36.99            | -14.62      |
| 701.50          | 5                       | QPSK   | 24.95                 | -1.44           | 21.36     | 0.137       | 34.77           | -13.41      | 23.51      | 0.224        | 36.99            | -13.48      |
| 707.50          | 5                       | QPSK   | 24.80                 | -1.44           | 21.21     | 0.132       | 34.77           | -13.56      | 23.36      | 0.217        | 36.99            | -13.63      |
| 713.50          | 5                       | QPSK   | 24.94                 | -1.44           | 21.35     | 0.136       | 34.77           | -13.42      | 23.50      | 0.224        | 36.99            | -13.49      |
| 701.50          | 5                       | 16-QAM | 24.00                 | -1.44           | 20.41     | 0.110       | 34.77           | -14.36      | 22.56      | 0.180        | 36.99            | -14.43      |
| 704.00          | 10                      | QPSK   | 24.52                 | -1.44           | 20.93     | 0.124       | 34.77           | -13.84      | 23.08      | 0.203        | 36.99            | -13.91      |
| 707.50          | 10                      | QPSK   | 24.45                 | -1.44           | 20.86     | 0.122       | 34.77           | -13.91      | 23.01      | 0.200        | 36.99            | -13.98      |
| 711.00          | 10                      | QPSK   | 24.60                 | -1.44           | 21.01     | 0.126       | 34.77           | -13.76      | 23.16      | 0.207        | 36.99            | -13.83      |
| 711.00          | 10                      | 16-QAM | 23.43                 | -1.44           | 19.84     | 0.096       | 34.77           | -14.93      | 21.99      | 0.158        | 36.99            | -15.00      |

Table 7-3. ERP/EIRP Data (Band 12)

| Frequency [MHz] | Channel Bandwidth [MHz] | Mod.   | Conducted Power [dBm] | Ant. Gain [dBi] | ERP [dBm] | ERP [Watts] | ERP Limit [dBm] | Margin [dB] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|-----------------|-------------------------|--------|-----------------------|-----------------|-----------|-------------|-----------------|-------------|------------|--------------|------------------|-------------|
| 706.50          | 5                       | QPSK   | 24.91                 | -1.44           | 21.32     | 0.136       | 34.77           | -13.45      | 23.47      | 0.222        | 36.99            | -13.52      |
| 710.00          | 5                       | QPSK   | 24.98                 | -1.44           | 21.39     | 0.138       | 34.77           | -13.38      | 23.54      | 0.226        | 36.99            | -13.45      |
| 713.50          | 5                       | QPSK   | 24.91                 | -1.44           | 21.32     | 0.136       | 34.77           | -13.45      | 23.47      | 0.222        | 36.99            | -13.52      |
| 706.50          | 5                       | 16-QAM | 24.00                 | -1.44           | 20.41     | 0.110       | 34.77           | -14.36      | 22.56      | 0.180        | 36.99            | -14.43      |
| 709.00          | 10                      | QPSK   | 24.70                 | -1.44           | 21.11     | 0.129       | 34.77           | -13.66      | 23.26      | 0.212        | 36.99            | -13.73      |
| 710.00          | 10                      | QPSK   | 24.48                 | -1.44           | 20.89     | 0.123       | 34.77           | -13.88      | 23.04      | 0.201        | 36.99            | -13.95      |
| 711.00          | 10                      | QPSK   | 24.81                 | -1.44           | 21.22     | 0.132       | 34.77           | -13.55      | 23.37      | 0.217        | 36.99            | -13.62      |
| 711.00          | 10                      | 16-QAM | 23.98                 | -1.44           | 20.39     | 0.109       | 34.77           | -14.38      | 22.54      | 0.179        | 36.99            | -14.45      |

Table 7-4. ERP/EIRP Data (Band 17)

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 202 of 260                 |

| Frequency [MHz] | Channel Bandwidth [MHz] | Mod.   | Conducted Power [dBm] | Ant. Gain [dBi] | ERP [dBm] | ERP [Watts] | ERP Limit [dBm] | Margin [dB] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|-----------------|-------------------------|--------|-----------------------|-----------------|-----------|-------------|-----------------|-------------|------------|--------------|------------------|-------------|
| 779.50          | 5                       | QPSK   | 23.78                 | -0.74           | 20.89     | 0.123       | 34.77           | -13.88      | 23.04      | 0.201        | 36.99            | -13.95      |
| 782.00          | 5                       | QPSK   | 23.90                 | -0.74           | 21.01     | 0.126       | 34.77           | -13.76      | 23.16      | 0.207        | 36.99            | -13.83      |
| 784.50          | 5                       | QPSK   | 23.56                 | -0.74           | 20.67     | 0.117       | 34.77           | -14.10      | 22.82      | 0.191        | 36.99            | -14.17      |
| 782.00          | 5                       | 16-QAM | 22.91                 | -0.74           | 20.02     | 0.100       | 34.77           | -14.75      | 22.17      | 0.165        | 36.99            | -14.82      |
| 782.00          | 10                      | QPSK   | 23.40                 | -0.74           | 20.51     | 0.112       | 34.77           | -14.26      | 22.66      | 0.185        | 36.99            | -14.33      |
| 782.00          | 10                      | 16-QAM | 22.99                 | -0.74           | 20.10     | 0.102       | 34.77           | -14.67      | 22.25      | 0.168        | 36.99            | -14.74      |

**Table 7-5. ERP/EIRP Data (Band 13)**

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 203 of 260                 |

| Frequency [MHz] | Channel Bandwidth [MHz] | Mod.   | Conducted Power [dBm] | Ant. Gain [dBi] | ERP [dBm] | ERP [Watts] | ERP Limit [dBm] | Margin [dB] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|-----------------|-------------------------|--------|-----------------------|-----------------|-----------|-------------|-----------------|-------------|------------|--------------|------------------|-------------|
| 814.70          | 1.4                     | QPSK   | 24.44                 | 0.43            | 22.72     | 0.187       | 38.45           | -15.73      | 24.87      | 0.307        | 40.61            | -15.74      |
| 831.50          | 1.4                     | QPSK   | 24.48                 | 0.43            | 22.76     | 0.189       | 38.45           | -15.69      | 24.91      | 0.310        | 40.61            | -15.70      |
| 848.30          | 1.4                     | QPSK   | 24.28                 | 0.43            | 22.56     | 0.180       | 38.45           | -15.89      | 24.71      | 0.296        | 40.61            | -15.90      |
| 831.50          | 1.4                     | 16-QAM | 23.44                 | 0.43            | 21.72     | 0.149       | 38.45           | -16.73      | 23.87      | 0.244        | 40.61            | -16.74      |
| 815.50          | 3                       | QPSK   | 24.49                 | 0.43            | 22.77     | 0.189       | 38.45           | -15.68      | 24.92      | 0.310        | 40.61            | -15.69      |
| 831.50          | 3                       | QPSK   | 24.40                 | 0.43            | 22.68     | 0.185       | 38.45           | -15.77      | 24.83      | 0.304        | 40.61            | -15.78      |
| 847.50          | 3                       | QPSK   | 24.36                 | 0.43            | 22.64     | 0.184       | 38.45           | -15.81      | 24.79      | 0.301        | 40.61            | -15.82      |
| 815.50          | 3                       | 16-QAM | 23.44                 | 0.43            | 21.72     | 0.149       | 38.45           | -16.73      | 23.87      | 0.244        | 40.61            | -16.74      |
| 816.50          | 5                       | QPSK   | 24.46                 | 0.43            | 22.74     | 0.188       | 38.45           | -15.71      | 24.89      | 0.308        | 40.61            | -15.72      |
| 831.50          | 5                       | QPSK   | 24.49                 | 0.43            | 22.77     | 0.189       | 38.45           | -15.68      | 24.92      | 0.310        | 40.61            | -15.69      |
| 846.50          | 5                       | QPSK   | 24.48                 | 0.43            | 22.76     | 0.189       | 38.45           | -15.69      | 24.91      | 0.310        | 40.61            | -15.70      |
| 831.50          | 5                       | 16-QAM | 23.50                 | 0.43            | 21.78     | 0.151       | 38.45           | -16.67      | 23.93      | 0.247        | 40.61            | -16.68      |
| 819.00          | 10                      | QPSK   | 24.49                 | 0.43            | 22.77     | 0.189       | 38.45           | -15.68      | 24.92      | 0.310        | 40.61            | -15.69      |
| 831.50          | 10                      | QPSK   | 24.43                 | 0.43            | 22.71     | 0.187       | 38.45           | -15.74      | 24.86      | 0.306        | 40.61            | -15.75      |
| 844.00          | 10                      | QPSK   | 24.46                 | 0.43            | 22.74     | 0.188       | 38.45           | -15.71      | 24.89      | 0.308        | 40.61            | -15.72      |
| 831.50          | 10                      | 16-QAM | 23.50                 | 0.43            | 21.78     | 0.151       | 38.45           | -16.67      | 23.93      | 0.247        | 40.61            | -16.68      |

**Table 7-6. ERP/EIRP Data (Band 26)**

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 204 of 260                 |

| Frequency [MHz] | Channel Bandwidth [MHz] | Mod.   | Conducted Power [dBm] | Ant. Gain [dBi] | ERP [dBm] | ERP [Watts] | ERP Limit [dBm] | Margin [dB] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|-----------------|-------------------------|--------|-----------------------|-----------------|-----------|-------------|-----------------|-------------|------------|--------------|------------------|-------------|
| 824.70          | 1.4                     | QPSK   | 24.39                 | 0.43            | 22.67     | 0.185       | 38.45           | -15.78      | 24.82      | 0.303        | 40.61            | -15.79      |
| 836.50          | 1.4                     | QPSK   | 24.31                 | 0.43            | 22.59     | 0.182       | 38.45           | -15.86      | 24.74      | 0.298        | 40.61            | -15.87      |
| 848.30          | 1.4                     | QPSK   | 24.33                 | 0.43            | 22.61     | 0.182       | 38.45           | -15.84      | 24.76      | 0.299        | 40.61            | -15.85      |
| 824.70          | 1.4                     | 16-QAM | 23.50                 | 0.43            | 21.78     | 0.151       | 38.45           | -16.67      | 23.93      | 0.247        | 40.61            | -16.68      |
| 825.50          | 3                       | QPSK   | 23.98                 | 0.43            | 22.26     | 0.168       | 38.45           | -16.19      | 24.41      | 0.276        | 40.61            | -16.20      |
| 836.50          | 3                       | QPSK   | 23.96                 | 0.43            | 22.24     | 0.167       | 38.45           | -16.21      | 24.39      | 0.275        | 40.61            | -16.22      |
| 847.50          | 3                       | QPSK   | 24.06                 | 0.43            | 22.34     | 0.171       | 38.45           | -16.11      | 24.49      | 0.281        | 40.61            | -16.12      |
| 847.50          | 3                       | 16-QAM | 23.36                 | 0.43            | 21.64     | 0.146       | 38.45           | -16.81      | 23.79      | 0.239        | 40.61            | -16.82      |
| 826.50          | 5                       | QPSK   | 24.40                 | 0.43            | 22.68     | 0.185       | 38.45           | -15.77      | 24.83      | 0.304        | 40.61            | -15.78      |
| 836.50          | 5                       | QPSK   | 24.02                 | 0.43            | 22.30     | 0.170       | 38.45           | -16.15      | 24.45      | 0.279        | 40.61            | -16.16      |
| 846.50          | 5                       | QPSK   | 24.17                 | 0.43            | 22.45     | 0.176       | 38.45           | -16.00      | 24.60      | 0.288        | 40.61            | -16.01      |
| 846.50          | 5                       | 16-QAM | 23.37                 | 0.43            | 21.65     | 0.146       | 38.45           | -16.80      | 23.80      | 0.240        | 40.61            | -16.81      |
| 829.00          | 10                      | QPSK   | 24.04                 | 0.43            | 22.32     | 0.171       | 38.45           | -16.13      | 24.47      | 0.280        | 40.61            | -16.14      |
| 836.50          | 10                      | QPSK   | 23.90                 | 0.43            | 22.18     | 0.165       | 38.45           | -16.27      | 24.33      | 0.271        | 40.61            | -16.28      |
| 844.00          | 10                      | QPSK   | 24.05                 | 0.43            | 22.33     | 0.171       | 38.45           | -16.12      | 24.48      | 0.281        | 40.61            | -16.13      |
| 836.50          | 10                      | 16-QAM | 23.13                 | 0.43            | 21.41     | 0.138       | 38.45           | -17.04      | 23.56      | 0.227        | 40.61            | -17.05      |

**Table 7-7. ERP/EIRP Data (Band 5)**

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 205 of 260                 |

| Frequency [MHz] | Channel Bandwidth [MHz] | Mod.   | Conducted Power [dBm] | Ant. Gain [dBi] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|-----------------|-------------------------|--------|-----------------------|-----------------|------------|--------------|------------------|-------------|
| 1710.70         | 1.4                     | QPSK   | 23.81                 | 1.00            | 24.81      | 0.303        | 30.00            | -5.19       |
| 1732.50         | 1.4                     | QPSK   | 23.87                 | 1.00            | 24.87      | 0.307        | 30.00            | -5.13       |
| 1754.30         | 1.4                     | QPSK   | 24.00                 | 1.00            | 25.00      | 0.316        | 30.00            | -5.00       |
| 1754.30         | 1.4                     | 16-QAM | 23.00                 | 1.00            | 24.00      | 0.251        | 30.00            | -6.00       |
| 1711.50         | 3                       | QPSK   | 23.76                 | 1.00            | 24.76      | 0.299        | 30.00            | -5.24       |
| 1732.50         | 3                       | QPSK   | 23.76                 | 1.00            | 24.76      | 0.299        | 30.00            | -5.24       |
| 1753.50         | 3                       | QPSK   | 23.84                 | 1.00            | 24.84      | 0.305        | 30.00            | -5.16       |
| 1753.50         | 3                       | 16-QAM | 22.88                 | 1.00            | 23.88      | 0.244        | 30.00            | -6.12       |
| 1712.50         | 5                       | QPSK   | 23.98                 | 1.00            | 24.98      | 0.315        | 30.00            | -5.02       |
| 1732.50         | 5                       | QPSK   | 23.78                 | 1.00            | 24.78      | 0.301        | 30.00            | -5.22       |
| 1752.50         | 5                       | QPSK   | 23.69                 | 1.00            | 24.69      | 0.294        | 30.00            | -5.31       |
| 1712.50         | 5                       | 16-QAM | 23.00                 | 1.00            | 24.00      | 0.251        | 30.00            | -6.00       |
| 1715.00         | 10                      | QPSK   | 23.84                 | 1.00            | 24.84      | 0.305        | 30.00            | -5.16       |
| 1732.50         | 10                      | QPSK   | 23.91                 | 1.00            | 24.91      | 0.310        | 30.00            | -5.09       |
| 1750.00         | 10                      | QPSK   | 23.96                 | 1.00            | 24.96      | 0.313        | 30.00            | -5.04       |
| 1750.00         | 10                      | 16-QAM | 23.00                 | 1.00            | 24.00      | 0.251        | 30.00            | -6.00       |
| 1717.50         | 15                      | QPSK   | 23.92                 | 1.00            | 24.92      | 0.310        | 30.00            | -5.08       |
| 1732.50         | 15                      | QPSK   | 23.71                 | 1.00            | 24.71      | 0.296        | 30.00            | -5.29       |
| 1747.50         | 15                      | QPSK   | 23.81                 | 1.00            | 24.81      | 0.303        | 30.00            | -5.19       |
| 1717.50         | 15                      | 16-QAM | 23.00                 | 1.00            | 24.00      | 0.251        | 30.00            | -6.00       |
| 1720.00         | 20                      | QPSK   | 24.00                 | 1.00            | 25.00      | 0.316        | 30.00            | -5.00       |
| 1732.50         | 20                      | QPSK   | 24.00                 | 1.00            | 25.00      | 0.316        | 30.00            | -5.00       |
| 1745.00         | 20                      | QPSK   | 24.00                 | 1.00            | 25.00      | 0.316        | 30.00            | -5.00       |
| 1720.00         | 20                      | 16-QAM | 23.00                 | 1.00            | 24.00      | 0.251        | 30.00            | -6.00       |

**Table 7-8. EIRP Data (Band 4)**

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 206 of 260                 |

| Frequency [MHz] | Channel Bandwidth [MHz] | Mod.   | Conducted Power [dBm] | Ant. Gain [dBi] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|-----------------|-------------------------|--------|-----------------------|-----------------|------------|--------------|------------------|-------------|
| 1850.70         | 1.4                     | QPSK   | 24.51                 | 2.35            | 26.86      | 0.485        | 33.01            | -6.15       |
| 1882.50         | 1.4                     | QPSK   | 24.35                 | 2.35            | 26.70      | 0.468        | 33.01            | -6.31       |
| 1914.30         | 1.4                     | QPSK   | 24.29                 | 2.35            | 26.64      | 0.461        | 33.01            | -6.37       |
| 1850.70         | 1.4                     | 16-QAM | 23.48                 | 2.35            | 25.83      | 0.383        | 33.01            | -7.18       |
| 1851.50         | 3                       | QPSK   | 24.42                 | 2.35            | 26.77      | 0.475        | 33.01            | -6.24       |
| 1882.50         | 3                       | QPSK   | 24.45                 | 2.35            | 26.80      | 0.479        | 33.01            | -6.21       |
| 1913.50         | 3                       | QPSK   | 24.36                 | 2.35            | 26.71      | 0.469        | 33.01            | -6.30       |
| 1882.50         | 3                       | 16-QAM | 23.31                 | 2.35            | 25.66      | 0.368        | 33.01            | -7.35       |
| 1852.50         | 5                       | QPSK   | 24.45                 | 2.35            | 26.80      | 0.479        | 33.01            | -6.21       |
| 1882.50         | 5                       | QPSK   | 24.50                 | 2.35            | 26.85      | 0.484        | 33.01            | -6.16       |
| 1912.50         | 5                       | QPSK   | 24.39                 | 2.35            | 26.74      | 0.472        | 33.01            | -6.27       |
| 1882.50         | 5                       | 16-QAM | 23.36                 | 2.35            | 25.71      | 0.372        | 33.01            | -7.30       |
| 1855.00         | 10                      | QPSK   | 24.32                 | 2.35            | 26.67      | 0.465        | 33.01            | -6.34       |
| 1882.50         | 10                      | QPSK   | 24.37                 | 2.35            | 26.72      | 0.470        | 33.01            | -6.29       |
| 1910.00         | 10                      | QPSK   | 24.34                 | 2.35            | 26.69      | 0.467        | 33.01            | -6.32       |
| 1882.50         | 10                      | 16-QAM | 23.38                 | 2.35            | 25.73      | 0.374        | 33.01            | -7.28       |
| 1857.50         | 15                      | QPSK   | 24.44                 | 2.35            | 26.79      | 0.478        | 33.01            | -6.22       |
| 1882.50         | 15                      | QPSK   | 24.30                 | 2.35            | 26.65      | 0.462        | 33.01            | -6.36       |
| 1907.50         | 15                      | QPSK   | 24.49                 | 2.35            | 26.84      | 0.483        | 33.01            | -6.17       |
| 1907.50         | 15                      | 16-QAM | 23.36                 | 2.35            | 25.71      | 0.372        | 33.01            | -7.30       |
| 1860.00         | 20                      | QPSK   | 24.55                 | 2.35            | 26.90      | 0.490        | 33.01            | -6.11       |
| 1882.50         | 20                      | QPSK   | 24.52                 | 2.35            | 26.87      | 0.486        | 33.01            | -6.14       |
| 1905.00         | 20                      | QPSK   | 24.52                 | 2.35            | 26.87      | 0.486        | 33.01            | -6.14       |
| 1860.00         | 20                      | 16-QAM | 23.86                 | 2.35            | 26.21      | 0.418        | 33.01            | -6.80       |

**Table 7-9. EIRP Data (Band 25)**

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 207 of 260                 |

| Frequency [MHz] | Channel Bandwidth [MHz] | Mod.   | Conducted Power [dBm] | Ant. Gain [dBi] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|-----------------|-------------------------|--------|-----------------------|-----------------|------------|--------------|------------------|-------------|
| 1850.70         | 1.4                     | QPSK   | 23.59                 | 2.35            | 25.94      | 0.393        | 33.01            | -7.07       |
| 1880.00         | 1.4                     | QPSK   | 23.56                 | 2.35            | 25.91      | 0.390        | 33.01            | -7.10       |
| 1909.30         | 1.4                     | QPSK   | 23.65                 | 2.35            | 26.00      | 0.398        | 33.01            | -7.01       |
| 1880.00         | 1.4                     | 16-QAM | 23.07                 | 2.35            | 25.42      | 0.348        | 33.01            | -7.59       |
| 1851.50         | 3                       | QPSK   | 23.61                 | 2.35            | 25.96      | 0.394        | 33.01            | -7.05       |
| 1880.00         | 3                       | QPSK   | 23.62                 | 2.35            | 25.97      | 0.395        | 33.01            | -7.04       |
| 1908.50         | 3                       | QPSK   | 23.64                 | 2.35            | 25.99      | 0.397        | 33.01            | -7.02       |
| 1851.50         | 3                       | 16-QAM | 22.90                 | 2.35            | 25.25      | 0.335        | 33.01            | -7.76       |
| 1852.50         | 5                       | QPSK   | 23.67                 | 2.35            | 26.02      | 0.400        | 33.01            | -6.99       |
| 1880.00         | 5                       | QPSK   | 23.71                 | 2.35            | 26.06      | 0.404        | 33.01            | -6.95       |
| 1907.50         | 5                       | QPSK   | 23.72                 | 2.35            | 26.07      | 0.405        | 33.01            | -6.94       |
| 1852.50         | 5                       | 16-QAM | 22.95                 | 2.35            | 25.30      | 0.339        | 33.01            | -7.71       |
| 1855.00         | 10                      | QPSK   | 23.73                 | 2.35            | 26.08      | 0.406        | 33.01            | -6.93       |
| 1880.00         | 10                      | QPSK   | 23.66                 | 2.35            | 26.01      | 0.399        | 33.01            | -7.00       |
| 1905.00         | 10                      | QPSK   | 23.66                 | 2.35            | 26.01      | 0.399        | 33.01            | -7.00       |
| 1855.00         | 10                      | 16-QAM | 22.93                 | 2.35            | 25.28      | 0.337        | 33.01            | -7.73       |
| 1857.50         | 15                      | QPSK   | 24.10                 | 2.35            | 26.45      | 0.442        | 33.01            | -6.56       |
| 1880.00         | 15                      | QPSK   | 23.93                 | 2.35            | 26.28      | 0.425        | 33.01            | -6.73       |
| 1902.50         | 15                      | QPSK   | 24.25                 | 2.35            | 26.60      | 0.457        | 33.01            | -6.41       |
| 1880.00         | 15                      | 16-QAM | 23.20                 | 2.35            | 25.55      | 0.359        | 33.01            | -7.46       |
| 1860.00         | 20                      | QPSK   | 24.45                 | 2.35            | 26.80      | 0.479        | 33.01            | -6.21       |
| 1880.00         | 20                      | QPSK   | 24.47                 | 2.35            | 26.82      | 0.481        | 33.01            | -6.19       |
| 1900.00         | 20                      | QPSK   | 24.24                 | 2.35            | 26.59      | 0.456        | 33.01            | -6.42       |
| 1880.00         | 20                      | 16-QAM | 23.74                 | 2.35            | 26.09      | 0.406        | 33.01            | -6.92       |

**Table 7-10. EIRP Data (Band 2)**

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 208 of 260                 |

| Frequency [MHz] | Channel Bandwidth [MHz] | Mod.   | Conducted Power [dBm] | Ant. Gain [dBi] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|-----------------|-------------------------|--------|-----------------------|-----------------|------------|--------------|------------------|-------------|
| 2307.50         | 5                       | QPSK   | 22.28                 | 0.90            | 23.18      | 0.208        | 23.98            | -0.80       |
| 2310.00         | 5                       | QPSK   | 22.21                 | 0.90            | 23.11      | 0.205        | 23.98            | -0.87       |
| 2312.50         | 5                       | QPSK   | 22.30                 | 0.90            | 23.20      | 0.209        | 23.98            | -0.78       |
| 2312.50         | 5                       | 16-QAM | 21.26                 | 0.90            | 22.16      | 0.164        | 23.98            | -1.82       |
| 2310.00         | 10                      | QPSK   | 22.30                 | 0.90            | 23.20      | 0.209        | 23.98            | -0.78       |
| 2310.00         | 10                      | 16-QAM | 21.26                 | 0.90            | 22.16      | 0.164        | 23.98            | -1.82       |

**Table 7-11. EIRP Data (Band 30)**

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 209 of 260                 |

| Frequency [MHz] | Channel Bandwidth [MHz] | Mod.   | Conducted Power [dBm] | Ant. Gain [dBi] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|-----------------|-------------------------|--------|-----------------------|-----------------|------------|--------------|------------------|-------------|
| 2502.50         | 5                       | QPSK   | 23.24                 | 1.20            | 24.44      | 0.278        | 33.01            | -8.57       |
| 2535.00         | 5                       | QPSK   | 23.26                 | 1.20            | 24.46      | 0.279        | 33.01            | -8.55       |
| 2567.50         | 5                       | QPSK   | 23.42                 | 1.20            | 24.62      | 0.290        | 33.01            | -8.39       |
| 2567.50         | 5                       | 16-QAM | 22.56                 | 1.20            | 23.76      | 0.238        | 33.01            | -9.25       |
| 2505.00         | 10                      | QPSK   | 23.03                 | 1.20            | 24.23      | 0.265        | 33.01            | -8.78       |
| 2535.00         | 10                      | QPSK   | 23.16                 | 1.20            | 24.36      | 0.273        | 33.01            | -8.65       |
| 2565.00         | 10                      | QPSK   | 23.28                 | 1.20            | 24.48      | 0.281        | 33.01            | -8.53       |
| 2565.00         | 10                      | 16-QAM | 22.62                 | 1.20            | 23.82      | 0.241        | 33.01            | -9.19       |
| 2507.50         | 15                      | QPSK   | 23.33                 | 1.20            | 24.53      | 0.284        | 33.01            | -8.48       |
| 2535.00         | 15                      | QPSK   | 23.12                 | 1.20            | 24.32      | 0.270        | 33.01            | -8.69       |
| 2562.50         | 15                      | QPSK   | 23.09                 | 1.20            | 24.29      | 0.269        | 33.01            | -8.72       |
| 2507.50         | 15                      | 16-QAM | 22.85                 | 1.20            | 24.05      | 0.254        | 33.01            | -8.96       |
| 2510.00         | 20                      | QPSK   | 23.46                 | 1.20            | 24.66      | 0.292        | 33.01            | -8.35       |
| 2535.00         | 20                      | QPSK   | 23.60                 | 1.20            | 24.80      | 0.302        | 33.01            | -8.21       |
| 2560.00         | 20                      | QPSK   | 23.40                 | 1.20            | 24.60      | 0.288        | 33.01            | -8.41       |
| 2535.00         | 20                      | 16-QAM | 22.54                 | 1.20            | 23.74      | 0.237        | 33.01            | -9.27       |

**Table 7-12. EIRP Data (Band 7)**

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 210 of 260                 |

| Frequency [MHz] | Channel Bandwidth [MHz] | Mod.   | Conducted Power [dBm] | Ant. Gain [dBi] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|-----------------|-------------------------|--------|-----------------------|-----------------|------------|--------------|------------------|-------------|
| 2498.50         | 5                       | QPSK   | 22.42                 | 1.71            | 24.13      | 0.259        | 33.01            | -8.88       |
| 2593.00         | 5                       | QPSK   | 22.50                 | 1.71            | 24.21      | 0.264        | 33.01            | -8.80       |
| 2687.50         | 5                       | QPSK   | 22.50                 | 1.71            | 24.21      | 0.264        | 33.01            | -8.80       |
| 2593.00         | 5                       | 16-QAM | 21.50                 | 1.71            | 23.21      | 0.209        | 33.01            | -9.80       |
| 2501.00         | 10                      | QPSK   | 22.35                 | 1.71            | 24.06      | 0.255        | 33.01            | -8.95       |
| 2593.00         | 10                      | QPSK   | 22.35                 | 1.71            | 24.06      | 0.255        | 33.01            | -8.95       |
| 2685.00         | 10                      | QPSK   | 22.48                 | 1.71            | 24.19      | 0.262        | 33.01            | -8.82       |
| 2685.00         | 10                      | 16-QAM | 21.50                 | 1.71            | 23.21      | 0.209        | 33.01            | -9.80       |
| 2503.50         | 15                      | QPSK   | 22.28                 | 1.71            | 23.99      | 0.251        | 33.01            | -9.02       |
| 2593.00         | 15                      | QPSK   | 22.17                 | 1.71            | 23.88      | 0.244        | 33.01            | -9.13       |
| 2682.50         | 15                      | QPSK   | 22.21                 | 1.71            | 23.92      | 0.247        | 33.01            | -9.09       |
| 2503.50         | 15                      | 16-QAM | 21.34                 | 1.71            | 23.05      | 0.202        | 33.01            | -9.96       |
| 2506.00         | 20                      | QPSK   | 22.37                 | 1.71            | 24.08      | 0.256        | 33.01            | -8.93       |
| 2593.00         | 20                      | QPSK   | 22.50                 | 1.71            | 24.21      | 0.264        | 33.01            | -8.80       |
| 2680.00         | 20                      | QPSK   | 22.47                 | 1.71            | 24.18      | 0.262        | 33.01            | -8.83       |
| 2593.00         | 20                      | 16-QAM | 21.35                 | 1.71            | 23.06      | 0.202        | 33.01            | -9.95       |

Table 7-13. EIRP Data (Band 41)

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 211 of 260                 |

## 7.7 Radiated Spurious Emissions Measurements

§2.1053 §22.917(a) §24.238(a) §27.53(c) §27.53(f) §27.53(g) §27.53(h) §27.53(m) §27.53(a)(4)

### Test Overview

Radiated spurious emissions measurements are performed using the substitution method described in ANSI/TIA-603-E-2016 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using vertically and horizontally polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas.

### Test Procedures Used

KDB 971168 D01 v03 – Section 5.8

ANSI/TIA-603-E-2016 – Section 2.2.12

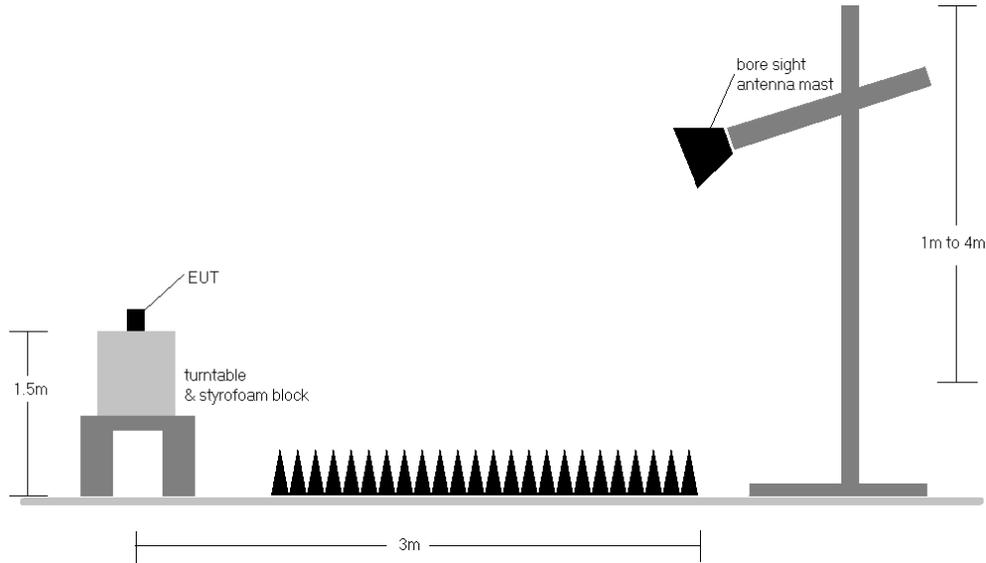
### Test Settings

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: BCGA1954                           |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 212 of 260                 |

**Test Setup**

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



**Figure 7-6. Test Instrument & Measurement Setup**

**Test Notes**

- 1) 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.
- 2) This unit was tested with its standard battery.
- 3) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 4) Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 5) The "-" shown in the following RSE tables are used to denote a noise floor measurement.

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018           | EUT Type:<br>Tablet Device | Page 213 of 260                 |

### Band 12

OPERATING FREQUENCY: 704.00 MHz  
 CHANNEL: 23060  
 MODULATION SIGNAL: QPSK  
 BANDWIDTH: 10.0 MHz  
 DISTANCE: 3 meters  
 LIMIT: -13 dBm

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Level at Antenna Terminals [dBm] | Substitute Antenna Gain [dBi] | Spurious Emission Level [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------------------|-------------------------------|-------------------------------|-------------|
| 1408.00         | V               | 326                 | 340                        | -69.60                           | 8.41                          | -61.18                        | -48.2       |
| 2112.00         | V               | -                   | -                          | -64.55                           | 0.48                          | -64.07                        | -51.1       |
| 2816.00         | V               | -                   | -                          | -68.28                           | 4.99                          | -63.29                        | -50.3       |

**Table 7-14. Radiated Spurious Data (Band 12 – Low Channel)**

OPERATING FREQUENCY: 707.50 MHz  
 CHANNEL: 23095  
 MODULATION SIGNAL: QPSK  
 BANDWIDTH: 10.0 MHz  
 DISTANCE: 3 meters  
 LIMIT: -13 dBm

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Level at Antenna Terminals [dBm] | Substitute Antenna Gain [dBi] | Spurious Emission Level [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------------------|-------------------------------|-------------------------------|-------------|
| 1415.00         | V               | 199                 | 324                        | -67.96                           | 8.47                          | -59.50                        | -46.5       |
| 2122.50         | V               | -                   | -                          | -64.61                           | 0.42                          | -64.20                        | -51.2       |
| 2830.00         | V               | -                   | -                          | -68.36                           | 5.01                          | -63.35                        | -50.4       |

**Table 7-15. Radiated Spurious Data (Band 12 – Mid Channel)**

|  |   |   |  |                                 |
|--|---|---|--|---------------------------------|
| FCC ID: BCGA1954                           |  | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |  | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device                    |  | Page 214 of 260                 |

OPERATING FREQUENCY: 711.00 MHz  
 CHANNEL: 23130  
 MODULATION SIGNAL: QPSK  
 BANDWIDTH: 10.0 MHz  
 DISTANCE: 3 meters  
 LIMIT: -13 dBm

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Level at Antenna Terminals [dBm] | Substitute Antenna Gain [dBi] | Spurious Emission Level [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------------------|-------------------------------|-------------------------------|-------------|
| 1422.00         | V               | 207                 | 324                        | -68.72                           | 8.52                          | -60.20                        | -47.2       |
| 2133.00         | V               | -                   | -                          | -64.56                           | 0.36                          | -64.20                        | -51.2       |
| 2844.00         | V               | -                   | -                          | -68.36                           | 5.03                          | -63.33                        | -50.3       |

Table 7-16. Radiated Spurious Data (Band 12 – High Channel)

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 215 of 260                 |

### Band 17

OPERATING FREQUENCY: 709.00 MHz  
 CHANNEL: 23780  
 MODULATION SIGNAL: QPSK  
 BANDWIDTH: 10.0 MHz  
 DISTANCE: 3 meters  
 LIMIT: -13 dBm

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Level at Antenna Terminals [dBm] | Substitute Antenna Gain [dBi] | Spurious Emission Level [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------------------|-------------------------------|-------------------------------|-------------|
| 1418.00         | V               | 150                 | 133                        | -73.42                           | 8.50                          | -64.92                        | -51.9       |
| 2127.00         | V               | -                   | -                          | -62.47                           | 0.38                          | -62.09                        | -49.1       |
| 2836.00         | V               | -                   | -                          | -65.77                           | 5.03                          | -60.75                        | -47.8       |

**Table 7-17. Radiated Spurious Data (Band 17 – Low Channel)**

OPERATING FREQUENCY: 710.00 MHz  
 CHANNEL: 23790  
 MODULATION SIGNAL: QPSK  
 BANDWIDTH: 10.0 MHz  
 DISTANCE: 3 meters  
 LIMIT: -13 dBm

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Level at Antenna Terminals [dBm] | Substitute Antenna Gain [dBi] | Spurious Emission Level [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------------------|-------------------------------|-------------------------------|-------------|
| 1420.00         | V               | 174                 | 71                         | -73.73                           | 8.50                          | -65.23                        | -52.2       |
| 2130.00         | V               | -                   | -                          | -65.24                           | 0.38                          | -64.86                        | -51.9       |
| 2840.00         | V               | -                   | -                          | -68.80                           | 5.03                          | -63.78                        | -50.8       |

**Table 7-18. Radiated Spurious Data (Band 17 – Mid Channel)**

|  |   |   |  |                                 |
|--|---|---|--|---------------------------------|
| FCC ID: BCGA1954                           |  | <b>MEASUREMENT REPORT (CERTIFICATION)</b> |  | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device                |  | Page 216 of 260                 |

OPERATING FREQUENCY: 711.00 MHz  
 CHANNEL: 23800  
 MODULATION SIGNAL: QPSK  
 BANDWIDTH: 10.0 MHz  
 DISTANCE: 3 meters  
 LIMIT: -13 dBm

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Level at Antenna Terminals [dBm] | Substitute Antenna Gain [dBi] | Spurious Emission Level [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------------------|-------------------------------|-------------------------------|-------------|
| 1422.00         | V               | 150                 | 122                        | -73.47                           | 8.50                          | -64.97                        | -52.0       |
| 2133.00         | V               | 150                 | 219                        | -60.66                           | 0.38                          | -60.28                        | -47.3       |
| 2844.00         | V               | -                   | -                          | -65.84                           | 5.03                          | -60.82                        | -47.8       |
| 3555.00         | V               | -                   | -                          | -64.75                           | 4.76                          | -59.99                        | -47.0       |

Table 7-19. Radiated Spurious Data (Band 17 – High Channel)

|   |   |                                   |  |
|---|---|-----------------------------------|--|
| FCC ID: BCGA1954                                  |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                                   | <b>Approved by:</b><br>Quality Manager |
| <b>Test Report S/N:</b><br>1C1710060006-03-R2.BCG | <b>Test Dates:</b><br>10/31/2017-2/15/2018  | <b>EUT Type:</b><br>Tablet Device | Page 217 of 260                        |

### Band 13

OPERATING FREQUENCY: 782.00 MHz  
 CHANNEL: 23230  
 MODULATION SIGNAL: QPSK  
 BANDWIDTH: 10.0 MHz  
 DISTANCE: 3 meters  
 LIMIT: -13 dBm

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Level at Antenna Terminals [dBm] | Substitute Antenna Gain [dBi] | Spurious Emission Level [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------------------|-------------------------------|-------------------------------|-------------|
| 2346.00         | V               | -                   | -                          | -66.14                           | 1.76                          | -64.38                        | -51.4       |
| 3128.00         | V               | -                   | -                          | -71.66                           | 7.92                          | -63.74                        | -50.7       |

**Table 7-20. Radiated Spurious Data (Band 13 – Mid Channel)**

OPERATING FREQUENCY: 782.00 MHz  
 CHANNEL: 23230  
 MODULATION SIGNAL: QPSK  
 BANDWIDTH: 10.0 MHz  
 DISTANCE: 3 meters  
 LIMIT: -13 dBm

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Level at Antenna Terminals [dBm] | Substitute Antenna Gain [dBi] | Spurious Emission Level [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------------------|-------------------------------|-------------------------------|-------------|
| 1564.00         | V               | 344                 | 7                          | -67.80                           | 2.36                          | -65.44                        | -52.4       |

**Table 7-21. Radiated Spurious Data (Band 13 – 1559-1610MHz Band)**

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 218 of 260                 |

### Band 26

OPERATING FREQUENCY: 819.00 MHz  
 CHANNEL: 26740  
 MODULATION SIGNAL: QPSK  
 BANDWIDTH: 10.0 MHz  
 DISTANCE: 3 meters  
 LIMIT: -13 dBm

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Level at Antenna Terminals [dBm] | Substitute Antenna Gain [dBi] | Spurious Emission Level [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------------------|-------------------------------|-------------------------------|-------------|
| 1638.00         | V               | 156                 | 247                        | -73.44                           | 8.47                          | -64.97                        | -52.0       |
| 2457.00         | V               | -                   | -                          | -67.92                           | 3.92                          | -63.99                        | -51.0       |
| 3276.00         | V               | -                   | -                          | -67.68                           | 4.16                          | -63.52                        | -50.5       |

**Table 7-22. Radiated Spurious Data (Band 26 – Low Channel)**

OPERATING FREQUENCY: 831.50 MHz  
 CHANNEL: 26865  
 MODULATION SIGNAL: QPSK  
 BANDWIDTH: 10.0 MHz  
 DISTANCE: 3 meters  
 LIMIT: -13 dBm

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Level at Antenna Terminals [dBm] | Substitute Antenna Gain [dBi] | Spurious Emission Level [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------------------|-------------------------------|-------------------------------|-------------|
| 2494.50         | V               | -                   | -                          | -67.77                           | 3.92                          | -63.85                        | -50.8       |
| 3326.00         | V               | -                   | -                          | -72.02                           | 8.41                          | -63.61                        | -50.6       |

**Table 7-23. Radiated Spurious Data (Band 26 – Mid Channel)**

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 219 of 260                 |

OPERATING FREQUENCY: 844.00 MHz  
 CHANNEL: 26990  
 MODULATION SIGNAL: QPSK  
 BANDWIDTH: 10.0 MHz  
 DISTANCE: 3 meters  
 LIMIT: -13 dBm

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Level at Antenna Terminals [dBm] | Substitute Antenna Gain [dBi] | Spurious Emission Level [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------------------|-------------------------------|-------------------------------|-------------|
| 1688.00         | V               | 320                 | 302                        | -66.55                           | 3.13                          | -63.41                        | -50.4       |
| 2532.00         | V               | -                   | -                          | -63.05                           | -1.15                         | -64.20                        | -51.2       |
| 3376.00         | V               | -                   | -                          | -69.84                           | 6.50                          | -63.34                        | -50.3       |

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

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 220 of 260                 |

### Band 5

OPERATING FREQUENCY: 829.00 MHz  
 CHANNEL: 20450  
 MODULATION SIGNAL: QPSK  
 DISTANCE: 3 meters  
 LIMIT: -13 dBm

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Level at Antenna Terminals [dBm] | Substitute Antenna Gain [dBi] | Spurious Emission Level [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------------------|-------------------------------|-------------------------------|-------------|
| 1658.00         | V               | 176                 | 48                         | -68.03                           | 3.11                          | -64.91                        | -51.9       |
| 2487.00         | V               | -                   | -                          | -67.25                           | 3.92                          | -63.33                        | -50.3       |
| 3316.00         | V               | -                   | -                          | -70.99                           | 8.35                          | -62.64                        | -49.6       |

**Table 7-25. Radiated Spurious Data (Band 5 – Low Channel)**

OPERATING FREQUENCY: 836.50 MHz  
 CHANNEL: 20525  
 MODULATION SIGNAL: QPSK  
 BANDWIDTH: 10.0 MHz  
 DISTANCE: 3 meters  
 LIMIT: -13 dBm

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Level at Antenna Terminals [dBm] | Substitute Antenna Gain [dBi] | Spurious Emission Level [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------------------|-------------------------------|-------------------------------|-------------|
| 1673.00         | V               | 158                 | 61                         | -68.07                           | 3.12                          | -64.95                        | -51.9       |
| 2509.50         | V               | -                   | -                          | -62.13                           | -0.99                         | -63.12                        | -50.1       |
| 3346.00         | V               | -                   | -                          | -71.02                           | 8.51                          | -62.51                        | -49.5       |

**Table 7-26. Radiated Spurious Data (Band 5 – Mid Channel)**

|  |   |                            |                                       |                                 |
|--|---|----------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  |                            | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device |                                       | Page 221 of 260                 |

OPERATING FREQUENCY: 844.00 MHz  
 CHANNEL: 20600  
 MODULATION SIGNAL: QPSK  
 BANDWIDTH: 10.0 MHz  
 DISTANCE: 3 meters  
 LIMIT: -13 dBm

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Level at Antenna Terminals [dBm] | Substitute Antenna Gain [dBi] | Spurious Emission Level [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------------------|-------------------------------|-------------------------------|-------------|
| 1688.00         | V               | 212                 | 57                         | -68.81                           | 3.13                          | -65.67                        | -52.7       |
| 2532.00         | V               | -                   | -                          | -61.01                           | -1.15                         | -62.16                        | -49.2       |
| 3376.00         | V               | -                   | -                          | -67.65                           | 6.50                          | -61.15                        | -48.2       |

Table 7-27. Radiated Spurious Data (Band 5 – High Channel)

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 222 of 260                 |

### Band 4

OPERATING FREQUENCY: 1720.00 MHz  
 CHANNEL: 20050  
 MODULATION SIGNAL: QPSK  
 BANDWIDTH: 20.0 MHz  
 DISTANCE: 3 meters  
 LIMIT: -13 dBm

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Level at Antenna Terminals [dBm] | Substitute Antenna Gain [dBi] | Spurious Emission Level [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------------------|-------------------------------|-------------------------------|-------------|
| 3440.00         | H               | 100                 | 18                         | -65.97                           | 8.54                          | -57.44                        | -44.4       |
| 5160.00         | H               | -                   | -                          | -69.25                           | 8.08                          | -61.18                        | -48.2       |
| 6880.00         | H               | -                   | -                          | -67.86                           | 9.24                          | -58.62                        | -45.6       |

**Table 7-28. Radiated Spurious Data (Band 4 – Low Channel)**

OPERATING FREQUENCY: 1732.50 MHz  
 CHANNEL: 20175  
 MODULATION SIGNAL: QPSK  
 BANDWIDTH: 20.0 MHz  
 DISTANCE: 3 meters  
 LIMIT: -13 dBm

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Level at Antenna Terminals [dBm] | Substitute Antenna Gain [dBi] | Spurious Emission Level [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------------------|-------------------------------|-------------------------------|-------------|
| 5197.50         | H               | -                   | -                          | -69.41                           | 8.07                          | -61.34                        | -48.3       |
| 6930.00         | H               | -                   | -                          | -68.71                           | 10.28                         | -58.43                        | -45.4       |

**Table 7-29. Radiated Spurious Data (Band 4 – Mid Channel)**

|  |   |   |  |                                 |
|--|---|---|--|---------------------------------|
| FCC ID: BCGA1954                           |  | <b>MEASUREMENT REPORT (CERTIFICATION)</b> |  | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device                |  | Page 223 of 260                 |

OPERATING FREQUENCY: 1745.00 MHz  
 CHANNEL: 20300  
 MODULATION SIGNAL: QPSK  
 BANDWIDTH: 20.0 MHz  
 DISTANCE: 3 meters  
 LIMIT: -13 dBm

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Level at Antenna Terminals [dBm] | Substitute Antenna Gain [dBi] | Spurious Emission Level [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------------------|-------------------------------|-------------------------------|-------------|
| 3490.00         | H               | 199                 | 17                         | -65.19                           | 6.18                          | -59.01                        | -46.0       |
| 5235.00         | H               | -                   | -                          | -70.59                           | 9.29                          | -61.30                        | -48.3       |
| 6980.00         | H               | -                   | -                          | -66.87                           | 8.77                          | -58.10                        | -45.1       |

**Table 7-30. Radiated Spurious Data (Band 4 – High Channel)**

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 224 of 260                 |

### Band 25

OPERATING FREQUENCY: 1860.00 MHz  
 CHANNEL: 26140  
 MODULATION SIGNAL: QPSK  
 BANDWIDTH: 20.0 MHz  
 DISTANCE: 3 meters  
 LIMIT: -13 dBm

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Level at Antenna Terminals [dBm] | Substitute Antenna Gain [dBi] | Spurious Emission Level [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------------------|-------------------------------|-------------------------------|-------------|
| 3720.00         | H               | 326                 | 13                         | -70.18                           | 8.11                          | -62.07                        | -49.1       |
| 5580.00         | H               | -                   | -                          | -70.18                           | 8.70                          | -61.48                        | -48.5       |
| 7440.00         | H               | -                   | -                          | -67.87                           | 9.61                          | -58.26                        | -45.3       |

**Table 7-31. Radiated Spurious Data (Band 25 – Low Channel)**

OPERATING FREQUENCY: 1882.50 MHz  
 CHANNEL: 26365  
 MODULATION SIGNAL: QPSK  
 BANDWIDTH: 20.0 MHz  
 DISTANCE: 3 meters  
 LIMIT: -13 dBm

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Level at Antenna Terminals [dBm] | Substitute Antenna Gain [dBi] | Spurious Emission Level [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------------------|-------------------------------|-------------------------------|-------------|
| 5647.50         | H               | -                   | -                          | -70.51                           | 9.29                          | -61.23                        | -48.2       |
| 7530.00         | H               | -                   | -                          | -66.88                           | 8.64                          | -58.24                        | -45.2       |

**Table 7-32. Radiated Spurious Data (Band 25 – Mid Channel)**

|  |   |   |  |                                 |
|--|---|---|--|---------------------------------|
| FCC ID: BCGA1954                           |  | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |  | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device                    |  | Page 225 of 260                 |

OPERATING FREQUENCY: 1905.00 MHz  
 CHANNEL: 26590  
 MODULATION SIGNAL: QPSK  
 BANDWIDTH: 20.0 MHz  
 DISTANCE: 3 meters  
 LIMIT: -13 dBm

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Level at Antenna Terminals [dBm] | Substitute Antenna Gain [dBi] | Spurious Emission Level [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------------------|-------------------------------|-------------------------------|-------------|
| 3810.00         | H               | 100                 | 17                         | -62.13                           | 6.38                          | -55.75                        | -42.7       |
| 5715.00         | H               | -                   | -                          | -71.36                           | 10.16                         | -61.20                        | -48.2       |
| 7620.00         | H               | -                   | -                          | -67.28                           | 9.20                          | -58.08                        | -45.1       |

Table 7-33. Radiated Spurious Data (Band 25 – High Channel)

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 226 of 260                 |

## Band 2

OPERATING FREQUENCY: 1860.00 MHz  
 CHANNEL: 18700  
 MODULATION SIGNAL: QPSK  
 DISTANCE: 3 meters  
 LIMIT: -13 dBm

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Level at Antenna Terminals [dBm] | Substitute Antenna Gain [dBi] | Spurious Emission Level [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------------------|-------------------------------|-------------------------------|-------------|
| 3720.00         | H               | 178                 | 29                         | -69.75                           | 8.11                          | -61.64                        | -48.6       |
| 5580.00         | H               | -                   | -                          | -70.21                           | 8.70                          | -61.51                        | -48.5       |
| 7440.00         | H               | -                   | -                          | -67.83                           | 9.61                          | -58.22                        | -45.2       |

**Table 7-34. Radiated Spurious Data (Band 2 – Low Channel)**

OPERATING FREQUENCY: 1880.00 MHz  
 CHANNEL: 18900  
 MODULATION SIGNAL: QPSK  
 BANDWIDTH: 20.0 MHz  
 DISTANCE: 3 meters  
 LIMIT: -13 dBm

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Level at Antenna Terminals [dBm] | Substitute Antenna Gain [dBi] | Spurious Emission Level [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------------------|-------------------------------|-------------------------------|-------------|
| 3760.00         | H               | 100                 | 16                         | -64.16                           | 7.40                          | -56.75                        | -43.8       |
| 5640.00         | H               | -                   | -                          | -70.68                           | 9.28                          | -61.40                        | -48.4       |
| 7520.00         | H               | -                   | -                          | -67.00                           | 8.66                          | -58.34                        | -45.3       |

**Table 7-35. Radiated Spurious Data (Band 2 – Mid Channel)**

|  |   |   |  |                                 |
|--|---|---|--|---------------------------------|
| FCC ID: BCGA1954                           |  | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |  | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device                    |  | Page 227 of 260                 |

OPERATING FREQUENCY: 1900.00 MHz  
 CHANNEL: 19100  
 MODULATION SIGNAL: QPSK  
 BANDWIDTH: 20.0 MHz  
 DISTANCE: 3 meters  
 LIMIT: -13 dBm

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Level at Antenna Terminals [dBm] | Substitute Antenna Gain [dBi] | Spurious Emission Level [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------------------|-------------------------------|-------------------------------|-------------|
| 3800.00         | H               | 100                 | 14                         | -67.48                           | 6.38                          | -61.09                        | -48.1       |
| 5700.00         | H               | -                   | -                          | -71.18                           | 10.12                         | -61.05                        | -48.1       |
| 7600.00         | H               | -                   | -                          | -67.43                           | 9.21                          | -58.22                        | -45.2       |

Table 7-36. Radiated Spurious Data (Band 2 – High Channel)

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 228 of 260                 |

### Band 30

OPERATING FREQUENCY: 2310.00 MHz  
 CHANNEL: 27710  
 MODULATION SIGNAL: QPSK  
 BANDWIDTH: 10.0 MHz  
 DISTANCE: 3 meters  
 LIMIT: -40 dBm

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Level at Antenna Terminals [dBm] | Substitute Antenna Gain [dBi] | Spurious Emission Level [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------------------|-------------------------------|-------------------------------|-------------|
| 6930.00         | H               | -                   | -                          | -69.47                           | 10.28                         | -59.19                        | -19.2       |
| 9240.00         | H               | -                   | -                          | -66.14                           | 9.70                          | -56.44                        | -16.4       |

**Table 7-37. Radiated Spurious Data (Band 30 – Mid Channel)**

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 229 of 260                 |

### Band 7

OPERATING FREQUENCY: 2510.00 MHz  
 CHANNEL: 20850  
 MODULATION SIGNAL: QPSK  
 BANDWIDTH: 20.0 MHz  
 DISTANCE: 3 meters  
 LIMIT: -25 dBm

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Level at Antenna Terminals [dBm] | Substitute Antenna Gain [dBi] | Spurious Emission Level [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------------------|-------------------------------|-------------------------------|-------------|
| 5020.00         | H               | -                   | -                          | -70.21                           | 9.04                          | -61.17                        | -36.2       |
| 7530.00         | H               | -                   | -                          | -66.23                           | 8.64                          | -57.59                        | -32.6       |
| 10040.00        | H               | -                   | -                          | -64.99                           | 9.79                          | -55.20                        | -30.2       |

**Table 7-38. Radiated Spurious Data (Band 7 – Low Channel)**

OPERATING FREQUENCY: 2535.00 MHz  
 CHANNEL: 21100  
 MODULATION SIGNAL: QPSK  
 BANDWIDTH: 20.0 MHz  
 DISTANCE: 3 meters  
 LIMIT: -25 dBm

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Level at Antenna Terminals [dBm] | Substitute Antenna Gain [dBi] | Spurious Emission Level [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------------------|-------------------------------|-------------------------------|-------------|
| 7605.00         | H               | -                   | -                          | -66.54                           | 9.21                          | -57.33                        | -32.3       |
| 10140.00        | H               | -                   | -                          | -64.07                           | 9.49                          | -54.58                        | -29.6       |

**Table 7-39. Radiated Spurious Data (Band 7 – Mid Channel)**

|  |   |   |  |                                 |
|--|---|---|--|---------------------------------|
| FCC ID: BCGA1954                           |  | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |  | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device                    |  | Page 230 of 260                 |

OPERATING FREQUENCY: 2560.00 MHz  
 CHANNEL: 21350  
 MODULATION SIGNAL: QPSK  
 BANDWIDTH: 20.0 MHz  
 DISTANCE: 3 meters  
 LIMIT: -25 dBm

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Level at Antenna Terminals [dBm] | Substitute Antenna Gain [dBi] | Spurious Emission Level [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------------------|-------------------------------|-------------------------------|-------------|
| 5120.00         | H               | -                   | -                          | -69.65                           | 8.46                          | -61.19                        | -36.2       |
| 7680.00         | H               | -                   | -                          | -65.64                           | 8.68                          | -56.95                        | -32.0       |
| 10240.00        | H               | -                   | -                          | -63.92                           | 9.63                          | -54.29                        | -29.3       |

Table 7-40. Radiated Spurious Data (Band 7 – High Channel)

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 231 of 260                 |

### Band 41

OPERATING FREQUENCY: 2506.00 MHz  
 CHANNEL: 39750  
 MODULATION SIGNAL: QPSK  
 BANDWIDTH: 20.0 MHz  
 DISTANCE: 3 meters  
 LIMIT: -25 dBm

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Level at Antenna Terminals [dBm] | Substitute Antenna Gain [dBi] | Spurious Emission Level [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------------------|-------------------------------|-------------------------------|-------------|
| 5012.00         | H               | 326                 | 10                         | -70.99                           | 9.03                          | -61.96                        | -37.0       |
| 7518.00         | H               | -                   | -                          | -67.05                           | 8.66                          | -58.39                        | -33.4       |
| 10024.00        | H               | -                   | -                          | -65.48                           | 9.78                          | -55.70                        | -30.7       |

**Table 7-41. Radiated Spurious Data (Band 41 – Low Channel)**

OPERATING FREQUENCY: 2593.00 MHz  
 CHANNEL: 40620  
 MODULATION SIGNAL: QPSK  
 BANDWIDTH: 20.0 MHz  
 DISTANCE: 3 meters  
 LIMIT: -25 dBm

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Level at Antenna Terminals [dBm] | Substitute Antenna Gain [dBi] | Spurious Emission Level [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------------------|-------------------------------|-------------------------------|-------------|
| 7779.00         | H               | -                   | -                          | -65.84                           | 8.69                          | -57.15                        | -32.2       |
| 10372.00        | H               | -                   | -                          | -63.91                           | 9.25                          | -54.65                        | -29.7       |

**Table 7-42. Radiated Spurious Data (Band 41 – Mid Channel)**

|  |   |   |  |                                 |
|--|---|---|--|---------------------------------|
| FCC ID: BCGA1954                           |  | <b>MEASUREMENT REPORT (CERTIFICATION)</b> |  | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device                |  | Page 232 of 260                 |

OPERATING FREQUENCY: 2680.00 MHz  
 CHANNEL: 41490  
 MODULATION SIGNAL: QPSK  
 BANDWIDTH: 20.0 MHz  
 DISTANCE: 3 meters  
 LIMIT: -25 dBm

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Level at Antenna Terminals [dBm] | Substitute Antenna Gain [dBi] | Spurious Emission Level [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------------------|-------------------------------|-------------------------------|-------------|
| 5360.00         | H               | 104                 | 35                         | -69.80                           | 8.25                          | -61.55                        | -36.6       |
| 8040.00         | H               | -                   | -                          | -68.24                           | 9.44                          | -58.81                        | -33.8       |
| 10720.00        | H               | -                   | -                          | -63.07                           | 9.00                          | -54.07                        | -29.1       |

Table 7-43. Radiated Spurious Data (Band 41 – High Channel)

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 233 of 260                 |

**7.8 Radiated Spurious Emissions Measurements – Below 1GHz**  
§2.1053 §22.917(a) §24.238(a) §27.53(c) §27.53(f) §27.53(g) §27.53(h) §27.53(m)

**Test Overview**

Radiated spurious emissions measurements are performed using the substitution method described in ANSI/TIA-603-E-2016 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using vertically and horizontally polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas.

**Test Procedures Used**

KDB 971168 D01 v02r02 – Section 5.8

ANSI/TIA-603-E-2016 – Section 2.2.12

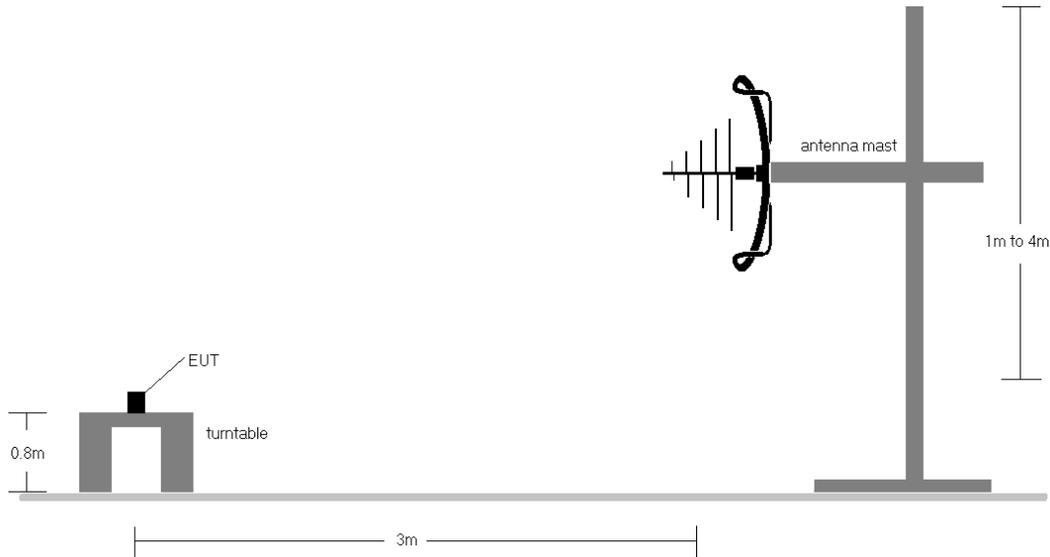
**Test Settings**

1. RBW = 100kHz
2. VBW ≥ 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: BCGA1954                           |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | <b>Approved by:</b><br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 234 of 260                        |

**Test Setup**

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

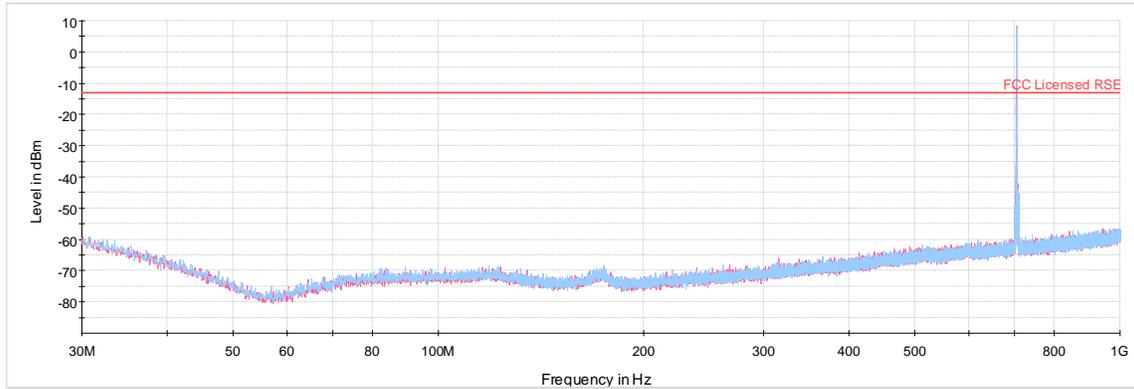


**Figure 7-7. Test Instrument & Measurement Setup**

**Test Notes**

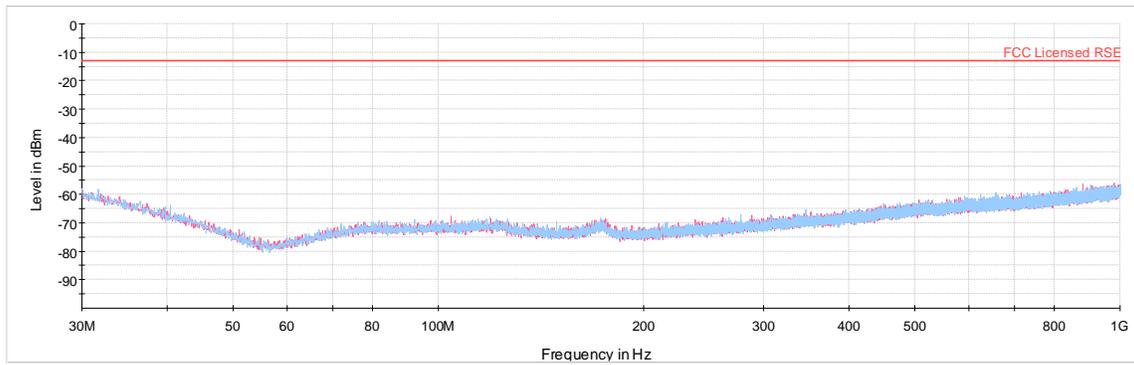
- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2) This unit was tested with its standard battery.
- 3) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter.
- 4) Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 5) The spurious emissions 20dB below the limit is not reported.
- 6) All modes were investigated and the worse case emissions are reported.

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018           | EUT Type:<br>Tablet Device | Page 235 of 260                 |



— Preview Result 1V-PK+    — Preview Result 1H-PK+    + Critical\_Freqs PK+  
— FCC Licensed RSE    ◆ Final\_Result PK+    ◆ Final\_Result QPK

**Plot 7-44. Radiated Spurious Plot (Band 12 – 5.0MHz QPSK – RB Size 25)**



— Preview Result 1V-PK+    — Preview Result 1H-PK+    + Critical\_Freqs PK+  
— FCC Licensed RSE    ◆ Final\_Result PK+    ◆ Final\_Result QPK

**Plot 7-45. Radiated Spurious Plot (Band 7 – 15.0MHz QPSK – RB Size 75)**

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 236 of 260                 |

## 7.9 Frequency Stability / Temperature Variation

§2.1055 §22.355 §24.235 §27.54

### Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI/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 22, RSS-132, RSS-133, the frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5 ppm) of the center frequency. For Part 24, Part 27, RSS-130, RSS-139, RSS-199, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.***

### Test Procedure Used

ANSI/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

The EUT was connected via an RF cable to a spectrum analyzer with the EUT placed inside an environmental chamber.

### Test Notes

None

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 237 of 260                 |

## Band 12 Frequency Stability Measurements

OPERATING FREQUENCY: 707,500,000 Hz  
 CHANNEL: 23790  
 REFERENCE VOLTAGE: 3.80 VDC

| VOLTAGE (%)    | POWER (VDC) | TEMP (°C)  | FREQUENCY (Hz) | Freq. Dev. (Hz) | Deviation (%) |
|----------------|-------------|------------|----------------|-----------------|---------------|
| 100 %          | 3.80        | + 20 (Ref) | 707,499,995    | -4.84           | -0.0000007    |
| 100 %          |             | - 30       | 707,499,996    | -3.79           | -0.0000005    |
| 100 %          |             | - 20       | 707,500,005    | 4.58            | 0.0000006     |
| 100 %          |             | - 10       | 707,500,004    | 4.09            | 0.0000006     |
| 100 %          |             | 0          | 707,500,004    | 4.08            | 0.0000006     |
| 100 %          |             | + 10       | 707,500,004    | 3.81            | 0.0000005     |
| 100 %          |             | + 20       | 707,500,004    | 3.81            | 0.0000005     |
| 100 %          |             | + 30       | 707,499,997    | -3.25           | -0.0000005    |
| 100 %          |             | + 40       | 707,499,996    | -3.69           | -0.0000005    |
| 100 %          |             | + 50       | 707,499,996    | -3.75           | -0.0000005    |
| BATT. ENDPOINT | 3.19        | + 20       | 707,499,995    | -5.11           | -0.0000007    |

**Table 7-46. Frequency Stability Data (Band 12)**

**Note:**

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 238 of 260                 |

## Band 12 Frequency Stability Measurements

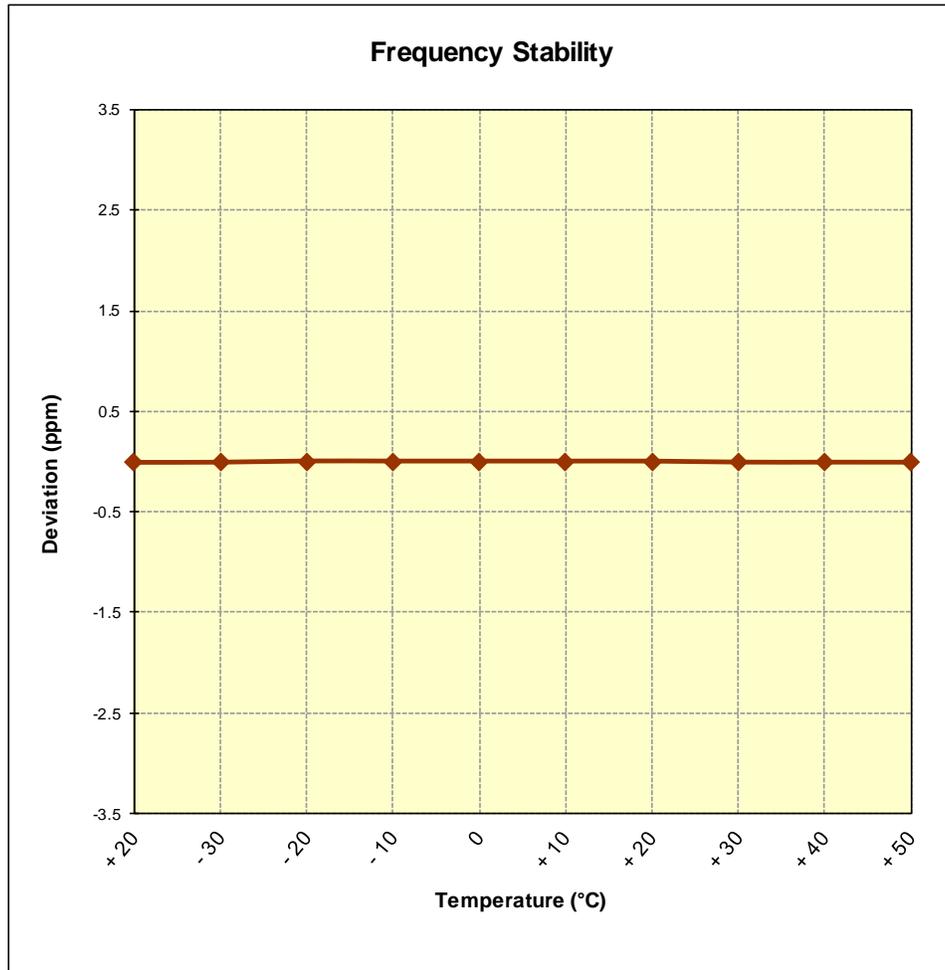


Figure 7-8. Frequency Stability Graph (Band 12)

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 239 of 260                 |

## Band 17 Frequency Stability Measurements

OPERATING FREQUENCY: 710,000,000 Hz  
 CHANNEL: 23090  
 REFERENCE VOLTAGE: 3.80 VDC

| VOLTAGE (%)    | POWER (VDC) | TEMP (°C)  | FREQUENCY (Hz) | Freq. Dev. (Hz) | Deviation (%) |
|----------------|-------------|------------|----------------|-----------------|---------------|
| 100 %          | 3.80        | + 20 (Ref) | 710,000,002    | 2.40            | 0.0000003     |
| 100 %          |             | - 30       | 709,999,997    | -2.98           | -0.0000004    |
| 100 %          |             | - 20       | 710,000,004    | 4.21            | 0.0000006     |
| 100 %          |             | - 10       | 710,000,003    | 3.10            | 0.0000004     |
| 100 %          |             | 0          | 710,000,003    | 3.02            | 0.0000004     |
| 100 %          |             | + 10       | 710,000,004    | 3.63            | 0.0000005     |
| 100 %          |             | + 20       | 710,000,004    | 3.56            | 0.0000005     |
| 100 %          |             | + 30       | 709,999,992    | -8.43           | -0.0000012    |
| 100 %          |             | + 40       | 709,999,992    | -7.55           | -0.0000011    |
| 100 %          |             | + 50       | 709,999,991    | -8.85           | -0.0000012    |
| BATT. ENDPOINT | 3.19        | + 20       | 710,000,003    | 2.89            | 0.0000004     |

**Table 7-47. Frequency Stability Data (Band 17)**

**Note:**

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 240 of 260                 |

## Band 17 Frequency Stability Measurements

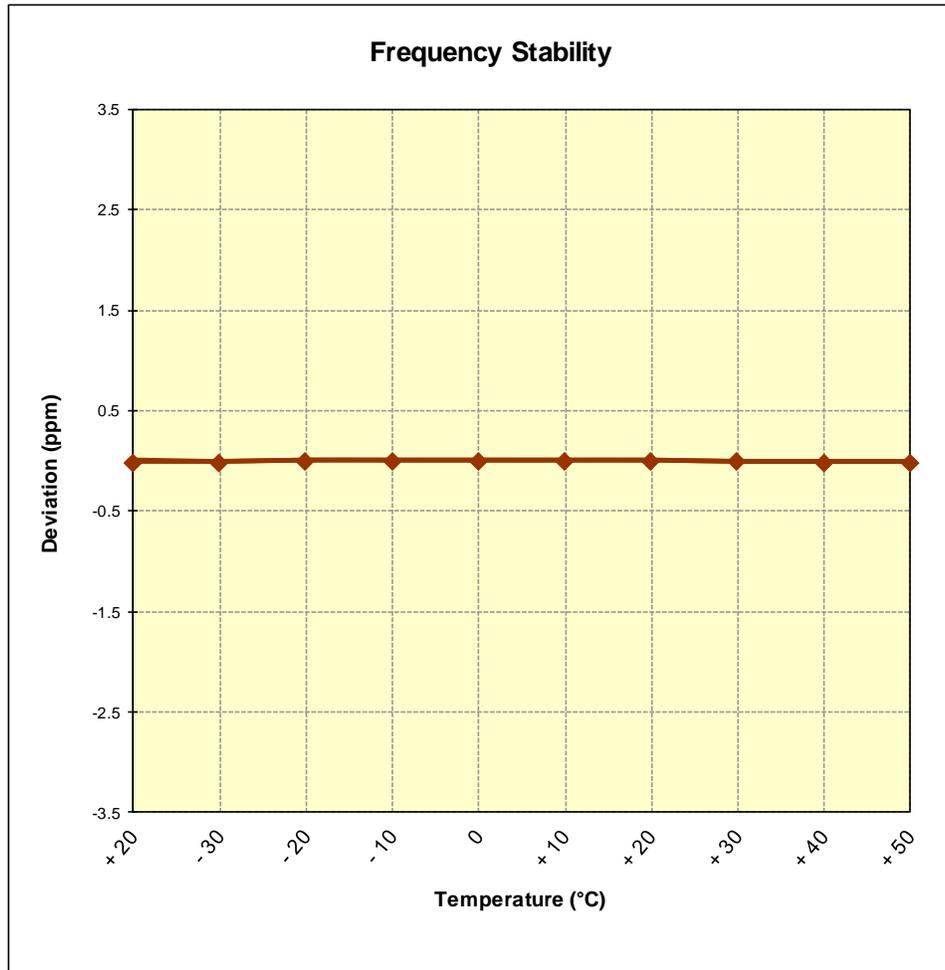


Figure 7-9. Frequency Stability Graph (Band 17)

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 241 of 260                 |

## Band 13 Frequency Stability Measurements

OPERATING FREQUENCY: 782,000,000 Hz  
 CHANNEL: 23230  
 REFERENCE VOLTAGE: 3.80 VDC

| VOLTAGE (%)    | POWER (VDC) | TEMP (°C)  | FREQUENCY (Hz) | Freq. Dev. (Hz) | Deviation (%) |
|----------------|-------------|------------|----------------|-----------------|---------------|
| 100 %          | 3.80        | + 20 (Ref) | 781,999,995    | -4.96           | -0.0000006    |
| 100 %          |             | - 30       | 781,999,996    | -4.13           | -0.0000005    |
| 100 %          |             | - 20       | 782,000,004    | 3.63            | 0.0000005     |
| 100 %          |             | - 10       | 782,000,004    | 3.53            | 0.0000005     |
| 100 %          |             | 0          | 782,000,004    | 4.28            | 0.0000005     |
| 100 %          |             | + 10       | 782,000,003    | 2.93            | 0.0000004     |
| 100 %          |             | + 20       | 782,000,004    | 3.69            | 0.0000005     |
| 100 %          |             | + 30       | 781,999,995    | -5.12           | -0.0000007    |
| 100 %          |             | + 40       | 781,999,995    | -5.17           | -0.0000007    |
| 100 %          |             | + 50       | 781,999,996    | -4.18           | -0.0000005    |
| BATT. ENDPOINT | 3.19        | + 20       | 781,999,996    | -3.91           | -0.0000005    |

**Table 7-48. Frequency Stability Data (Band 13)**

**Note:**

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 242 of 260                 |

## Band 13 Frequency Stability Measurements

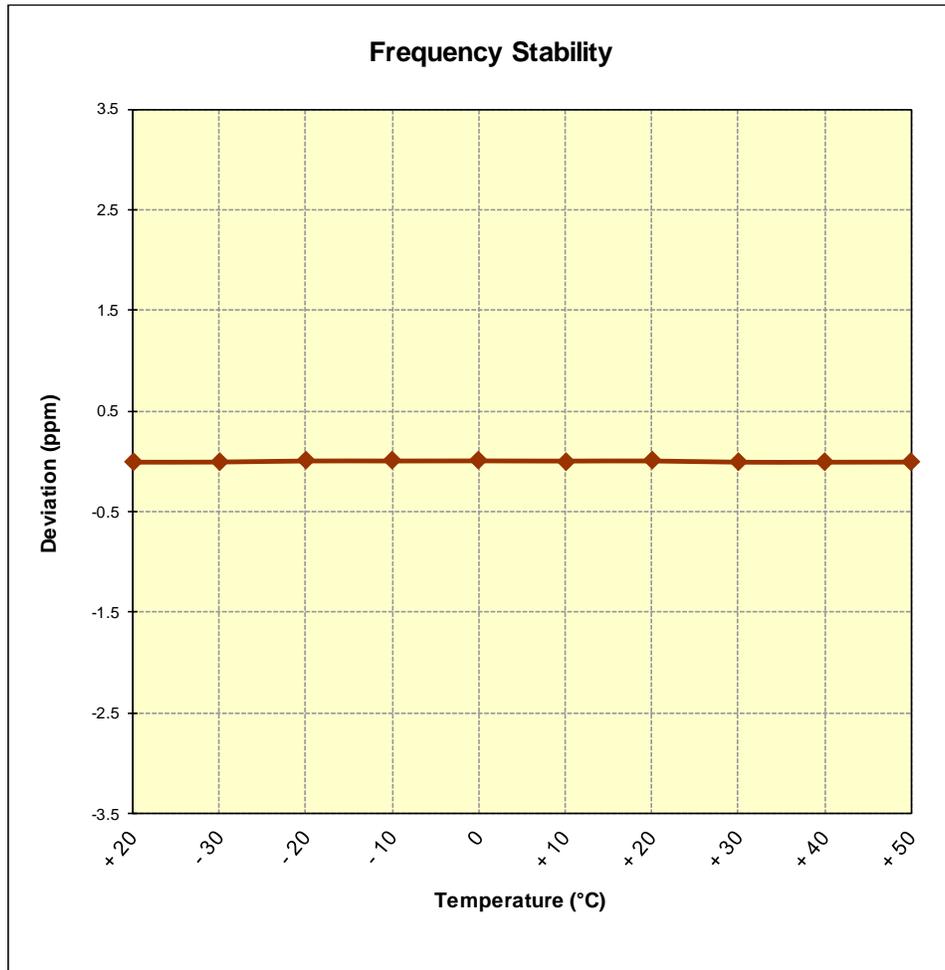


Figure 7-10. Frequency Stability Graph (Band 13)

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 243 of 260                 |

## Band 26 Frequency Stability Measurements

OPERATING FREQUENCY: 831,500,000 Hz  
 CHANNEL: 26865  
 REFERENCE VOLTAGE: 3.80 VDC  
 DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

| VOLTAGE (%)    | POWER (VDC) | TEMP (°C)  | FREQUENCY (Hz) | Freq. Dev. (Hz) | Deviation (%) |
|----------------|-------------|------------|----------------|-----------------|---------------|
| 100 %          | 3.80        | + 20 (Ref) | 831,499,996    | -3.93           | -0.0000005    |
| 100 %          |             | - 30       | 831,500,004    | 4.31            | 0.0000005     |
| 100 %          |             | - 20       | 831,499,992    | -8.30           | -0.0000010    |
| 100 %          |             | - 10       | 831,500,004    | 3.95            | 0.0000005     |
| 100 %          |             | 0          | 831,500,004    | 4.03            | 0.0000005     |
| 100 %          |             | + 10       | 831,499,994    | -5.79           | -0.0000007    |
| 100 %          |             | + 20       | 831,500,005    | 4.95            | 0.0000006     |
| 100 %          |             | + 30       | 831,500,005    | 5.23            | 0.0000006     |
| 100 %          |             | + 40       | 831,499,995    | -5.07           | -0.0000006    |
| 100 %          |             | + 50       | 831,499,996    | -4.13           | -0.0000005    |
| BATT. ENDPOINT | 3.19        | + 20       | 831,499,996    | -4.26           | -0.0000005    |

**Table 7-49. Frequency Stability Data (Band 26)**

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 244 of 260                 |

## Band 26 Frequency Stability Measurements

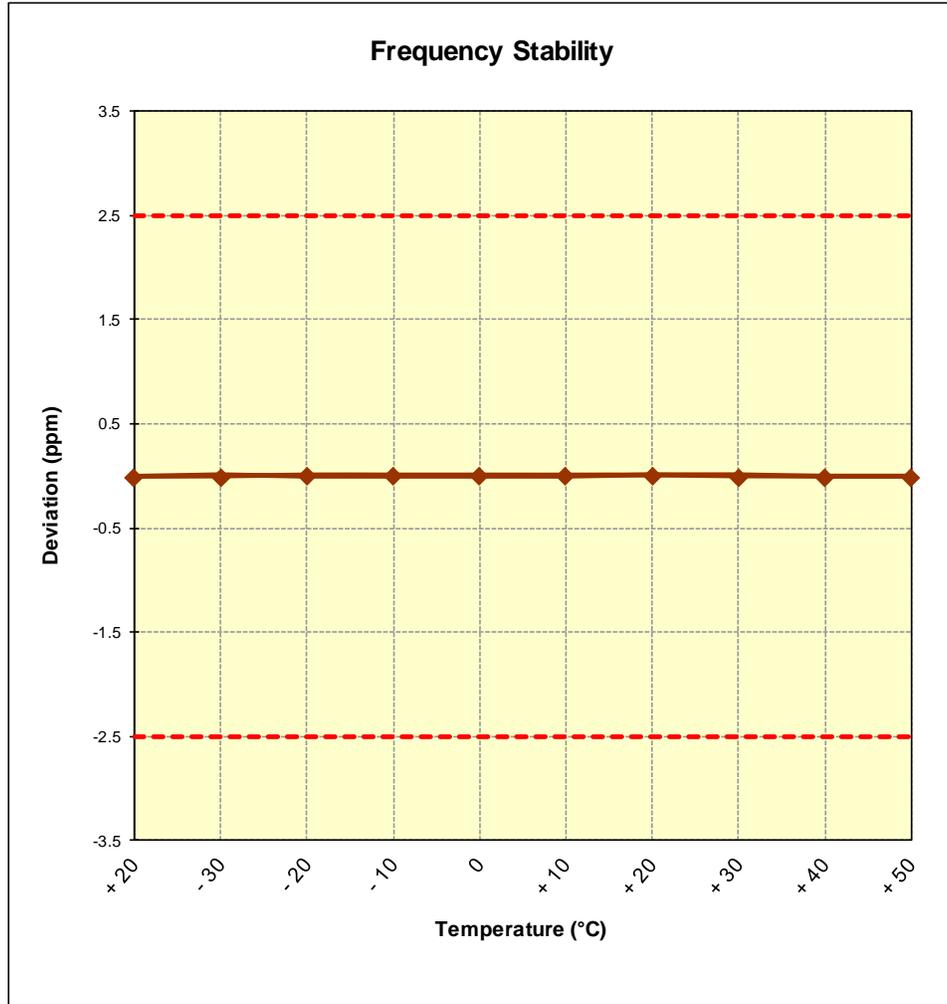


Figure 7-11. Frequency Stability Graph (Band 26)

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 245 of 260                 |

## Band 5 Frequency Stability Measurements

OPERATING FREQUENCY: 836,500,000 Hz  
 CHANNEL: 20525  
 REFERENCE VOLTAGE: 3.80 VDC  
 DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

| VOLTAGE (%)    | POWER (VDC) | TEMP (°C)  | FREQUENCY (Hz) | Freq. Dev. (Hz) | Deviation (%) |
|----------------|-------------|------------|----------------|-----------------|---------------|
| 100 %          | 3.80        | + 20 (Ref) | 836,499,994    | -5.74           | -0.0000007    |
| 100 %          |             | - 30       | 836,500,003    | 2.76            | 0.0000003     |
| 100 %          |             | - 20       | 836,500,003    | 3.05            | 0.0000004     |
| 100 %          |             | - 10       | 836,500,003    | 3.45            | 0.0000004     |
| 100 %          |             | 0          | 836,500,004    | 3.91            | 0.0000005     |
| 100 %          |             | + 10       | 836,500,004    | 3.99            | 0.0000005     |
| 100 %          |             | + 20       | 836,500,003    | 3.02            | 0.0000004     |
| 100 %          |             | + 30       | 836,499,997    | -3.47           | -0.0000004    |
| 100 %          |             | + 40       | 836,499,997    | -3.21           | -0.0000004    |
| 100 %          |             | + 50       | 836,499,997    | -3.20           | -0.0000004    |
| BATT. ENDPOINT | 3.19        | + 20       | 836,499,996    | -4.06           | -0.0000005    |

Table 7-50. Frequency Stability Data (Band 5)

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 246 of 260                 |

## Band 5 Frequency Stability Measurements

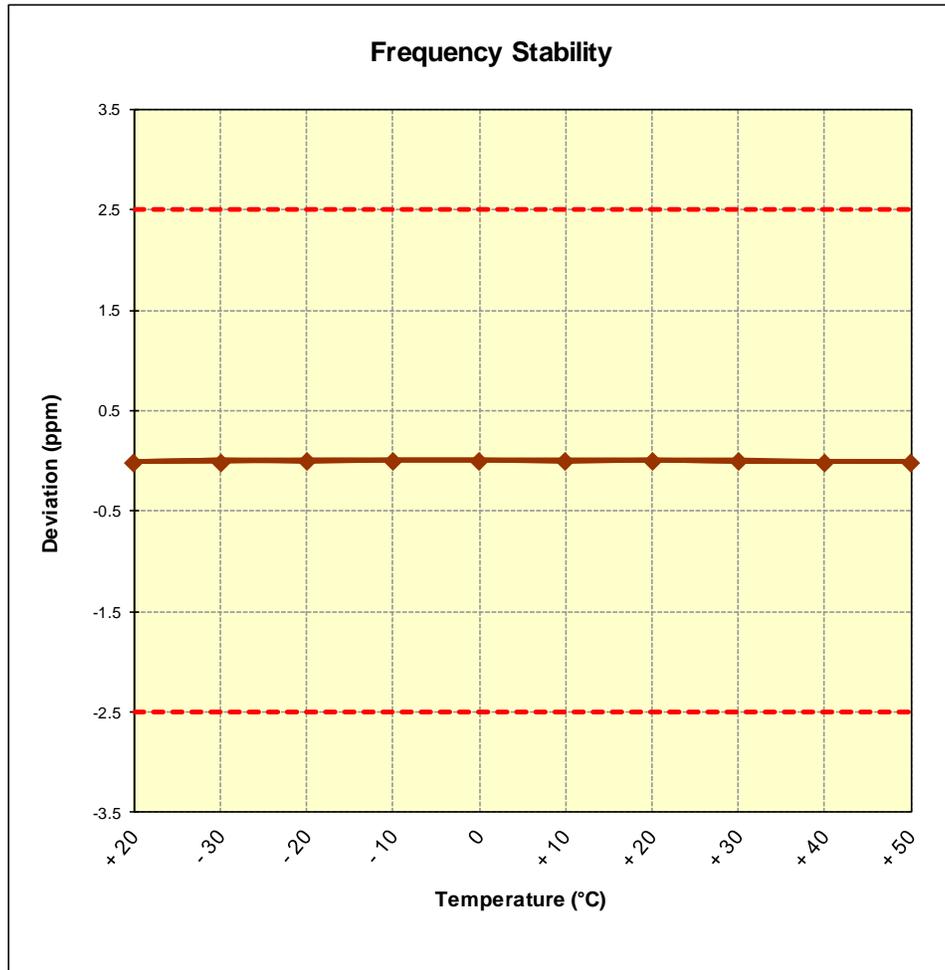


Figure 7-12. Frequency Stability Graph (Band 5)

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 247 of 260                 |

## Band 4 Frequency Stability Measurements

OPERATING FREQUENCY: 1,732,500,000 Hz  
 CHANNEL: 20175  
 REFERENCE VOLTAGE: 3.80 VDC

| VOLTAGE (%)    | POWER (VDC) | TEMP (°C)  | FREQUENCY (Hz) | Freq. Dev. (Hz) | Deviation (%) |
|----------------|-------------|------------|----------------|-----------------|---------------|
| 100 %          | 3.80        | + 20 (Ref) | 1,732,500,007  | 7.04            | 0.0000004     |
| 100 %          |             | - 30       | 1,732,500,005  | 5.36            | 0.0000003     |
| 100 %          |             | - 20       | 1,732,500,005  | 4.98            | 0.0000003     |
| 100 %          |             | - 10       | 1,732,500,007  | 6.91            | 0.0000004     |
| 100 %          |             | 0          | 1,732,500,023  | 23.37           | 0.0000013     |
| 100 %          |             | + 10       | 1,732,500,012  | 12.18           | 0.0000007     |
| 100 %          |             | + 20       | 1,732,500,004  | 4.41            | 0.0000003     |
| 100 %          |             | + 30       | 1,732,499,995  | -5.38           | -0.0000003    |
| 100 %          |             | + 40       | 1,732,499,996  | -4.26           | -0.0000002    |
| 100 %          |             | + 50       | 1,732,499,995  | -5.22           | -0.0000003    |
| BATT. ENDPOINT | 3.19        | + 20       | 1,732,500,005  | 5.34            | 0.0000003     |

**Table 7-51. Frequency Stability Data (Band 4)**

**Note:**

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 248 of 260                 |

## Band 4 Frequency Stability Measurements

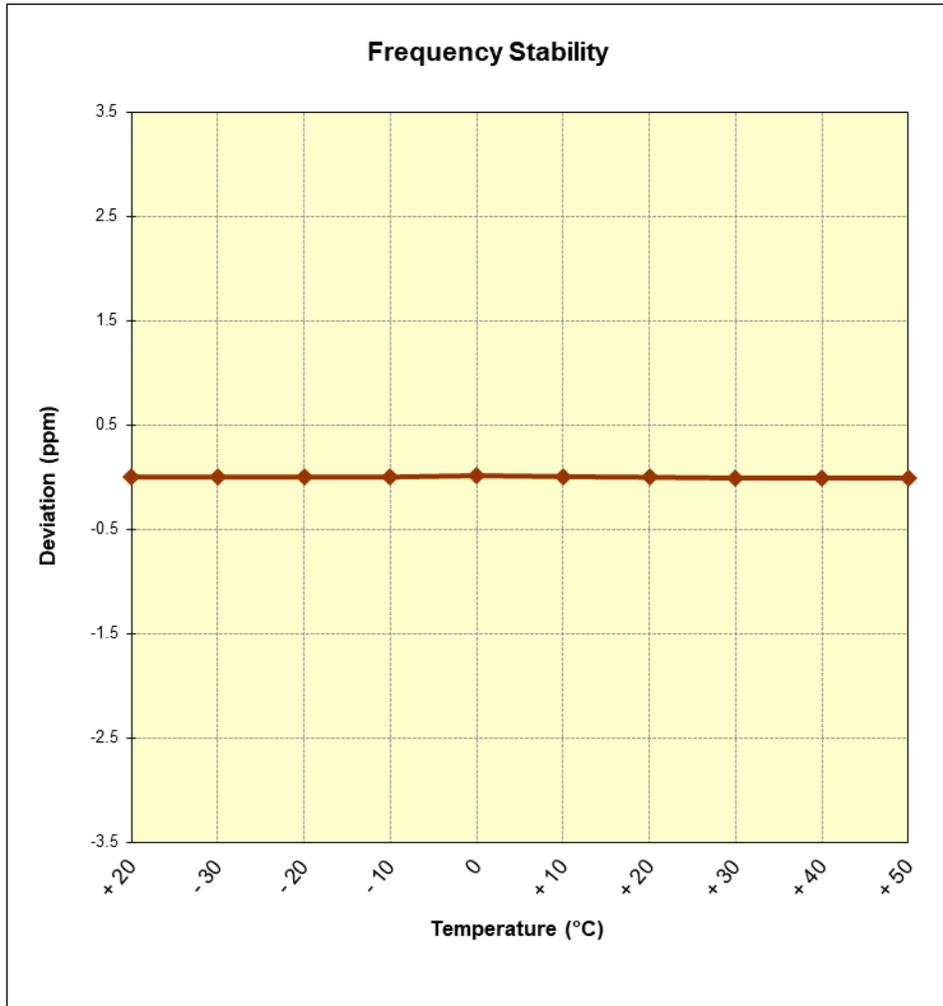


Figure 7-13. Frequency Stability Graph (Band 4)

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 249 of 260                 |

## Band 25 Frequency Stability Measurements

OPERATING FREQUENCY: 1,882,500,000 Hz  
 CHANNEL: 26365  
 REFERENCE VOLTAGE: 3.80 VDC  
 DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

| VOLTAGE (%)    | POWER (VDC) | TEMP (°C)  | FREQUENCY (Hz) | Freq. Dev. (Hz) | Deviation (%) |
|----------------|-------------|------------|----------------|-----------------|---------------|
| 100 %          | 3.80        | + 20 (Ref) | 1,882,500,006  | 5.58            | 0.0000003     |
| 100 %          |             | - 30       | 1,882,500,006  | 5.99            | 0.0000003     |
| 100 %          |             | - 20       | 1,882,500,006  | 6.35            | 0.0000003     |
| 100 %          |             | - 10       | 1,882,500,006  | 6.12            | 0.0000003     |
| 100 %          |             | 0          | 1,882,500,007  | 7.10            | 0.0000004     |
| 100 %          |             | + 10       | 1,882,500,009  | 9.23            | 0.0000005     |
| 100 %          |             | + 20       | 1,882,500,006  | 5.87            | 0.0000003     |
| 100 %          |             | + 30       | 1,882,500,007  | 6.78            | 0.0000004     |
| 100 %          |             | + 40       | 1,882,499,993  | -7.05           | -0.0000004    |
| 100 %          |             | + 50       | 1,882,499,994  | -6.49           | -0.0000003    |
| BATT. ENDPOINT | 3.19        | + 20       | 1,882,500,025  | 24.83           | 0.0000013     |

**Table 7-52. Frequency Stability Data (Band 25)**

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 250 of 260                 |

## Band 25 Frequency Stability Measurements

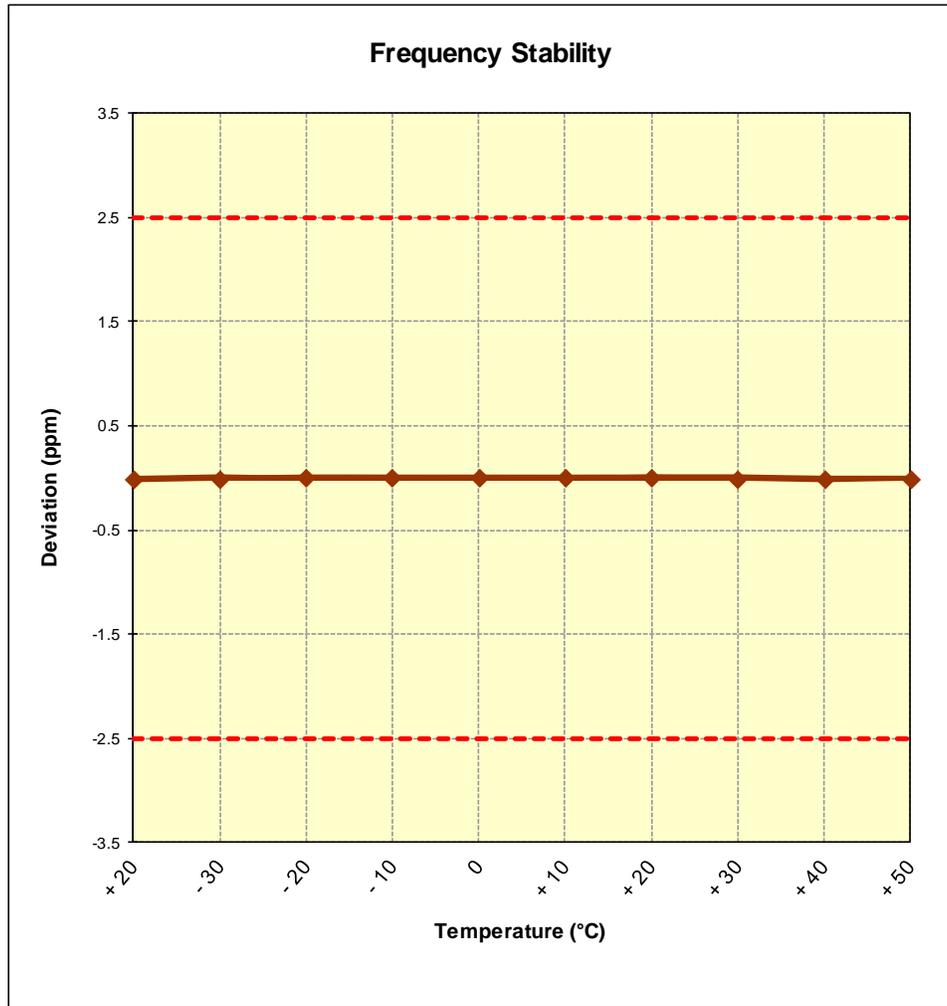


Figure 7-14. Frequency Stability Graph (Band 25)

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 251 of 260                 |

## Band 2 Frequency Stability Measurements

OPERATING FREQUENCY: 1,880,000,000 Hz  
 CHANNEL: 18900  
 REFERENCE VOLTAGE: 3.80 VDC  
 DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

| VOLTAGE (%)    | POWER (VDC) | TEMP (°C)  | FREQUENCY (Hz) | Freq. Dev. (Hz) | Deviation (%) |
|----------------|-------------|------------|----------------|-----------------|---------------|
| 100 %          | 3.80        | + 20 (Ref) | 1,879,999,991  | -8.65           | -0.0000005    |
| 100 %          |             | - 30       | 1,879,999,991  | -8.63           | -0.0000005    |
| 100 %          |             | - 20       | 1,879,999,993  | -7.11           | -0.0000004    |
| 100 %          |             | - 10       | 1,880,000,022  | 22.09           | 0.0000012     |
| 100 %          |             | 0          | 1,879,999,991  | -8.94           | -0.0000005    |
| 100 %          |             | + 10       | 1,879,999,993  | -7.10           | -0.0000004    |
| 100 %          |             | + 20       | 1,879,999,994  | -6.01           | -0.0000003    |
| 100 %          |             | + 30       | 1,879,999,994  | -6.47           | -0.0000003    |
| 100 %          |             | + 40       | 1,879,999,993  | -6.89           | -0.0000004    |
| 100 %          |             | + 50       | 1,879,999,991  | -8.84           | -0.0000005    |
| BATT. ENDPOINT | 3.19        | + 20       | 1,879,999,993  | -7.27           | -0.0000004    |

Table 7-53. Frequency Stability Data (Band 2)

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 252 of 260                 |

## Band 2 Frequency Stability Measurements

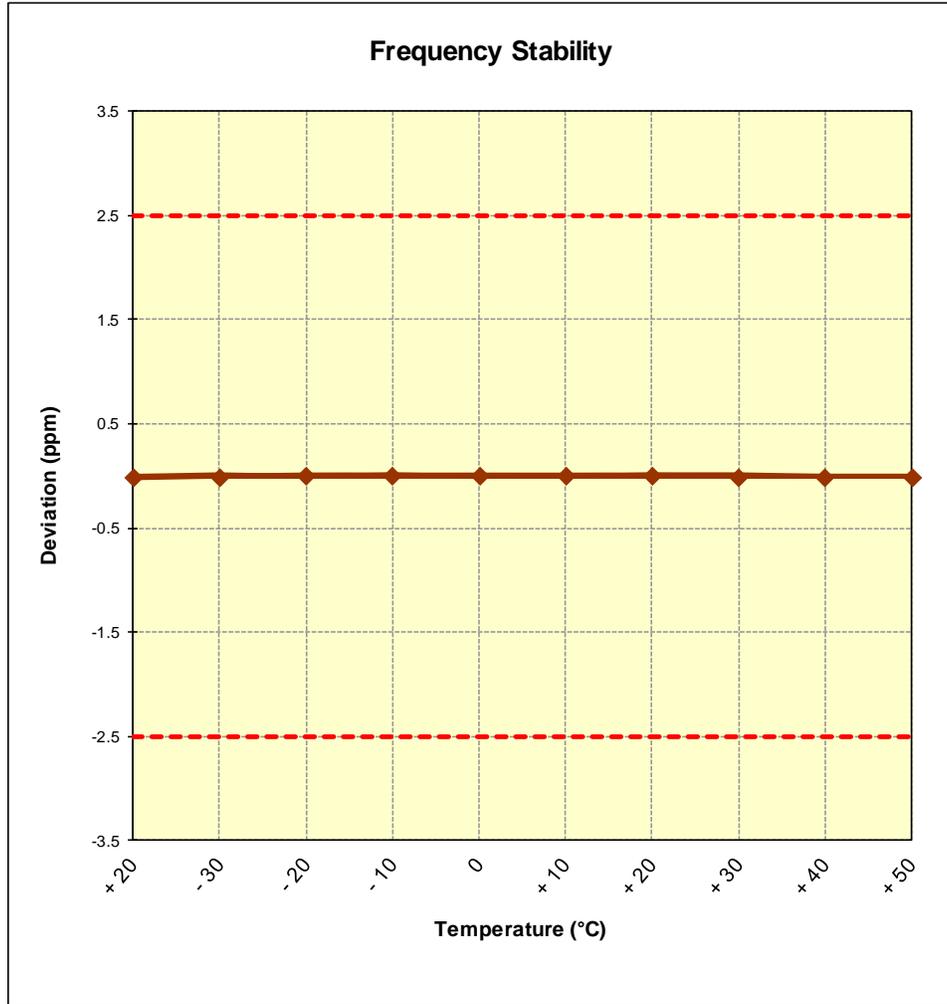


Figure 7-15. Frequency Stability Graph (Band 2)

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 253 of 260                 |

## Band 30 Frequency Stability Measurements

OPERATING FREQUENCY: 2,310,000,000 Hz  
 CHANNEL: 27710  
 REFERENCE VOLTAGE: 3.80 VDC

| VOLTAGE (%)    | POWER (VDC) | TEMP (°C)  | FREQUENCY (Hz) | Freq. Dev. (Hz) | Deviation (%) |
|----------------|-------------|------------|----------------|-----------------|---------------|
| 100 %          | 3.80        | + 20 (Ref) | 2,309,999,992  | -8.50           | -0.0000004    |
| 100 %          |             | - 30       | 2,309,999,990  | -9.64           | -0.0000004    |
| 100 %          |             | - 20       | 2,309,999,993  | -7.05           | -0.0000003    |
| 100 %          |             | - 10       | 2,309,999,992  | -7.67           | -0.0000003    |
| 100 %          |             | 0          | 2,309,999,993  | -7.17           | -0.0000003    |
| 100 %          |             | + 10       | 2,309,999,993  | -6.65           | -0.0000003    |
| 100 %          |             | + 20       | 2,309,999,994  | -6.42           | -0.0000003    |
| 100 %          |             | + 30       | 2,309,999,994  | -6.47           | -0.0000003    |
| 100 %          |             | + 40       | 2,309,999,991  | -8.51           | -0.0000004    |
| 100 %          |             | + 50       | 2,309,999,992  | -7.58           | -0.0000003    |
| BATT. ENDPOINT | 3.19        | + 20       | 2,309,999,990  | -9.57           | -0.0000004    |

**Table 7-54. Frequency Stability Data (Band 30)**

**Note:**

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 254 of 260                 |

## Band 30 Frequency Stability Measurements

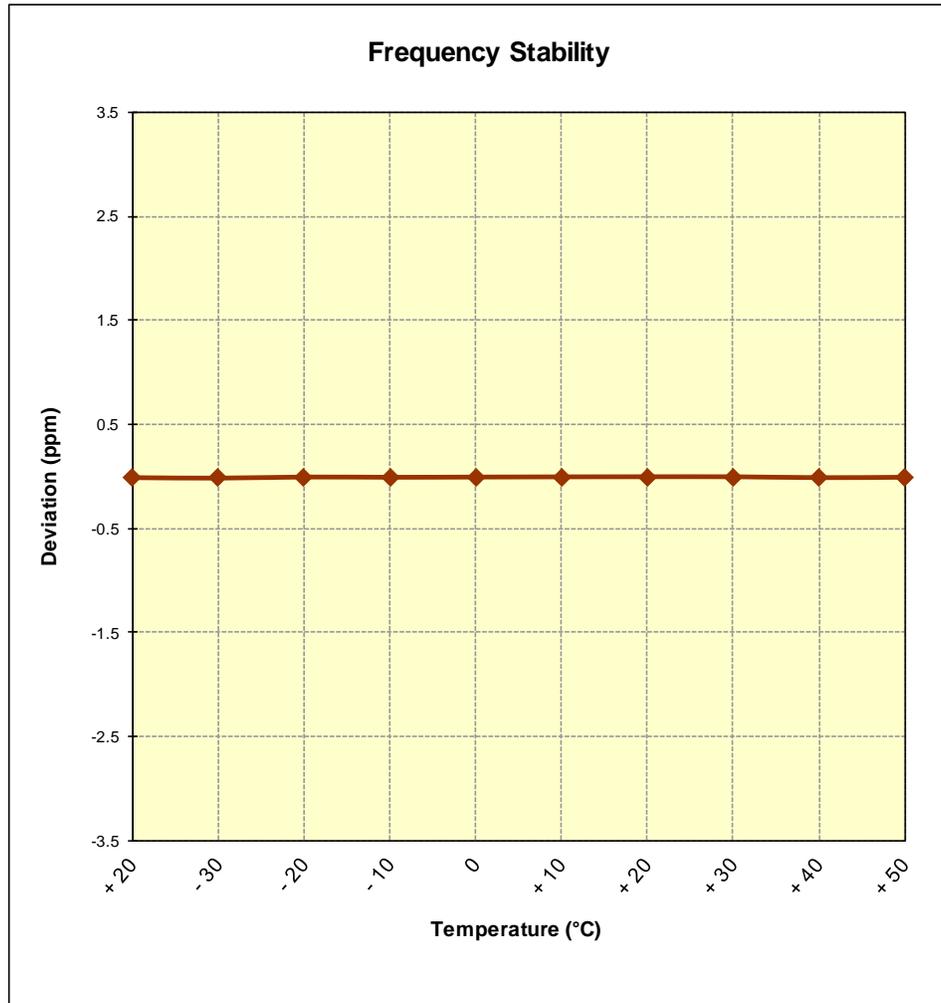


Figure 7-16. Frequency Stability Graph (Band 30)

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 255 of 260                 |

## Band 7 Frequency Stability Measurements

OPERATING FREQUENCY: 2,535,000,000 Hz  
 CHANNEL: 21100  
 REFERENCE VOLTAGE: 3.80 VDC

| VOLTAGE (%)    | POWER (VDC) | TEMP (°C)  | FREQUENCY (Hz) | Freq. Dev. (Hz) | Deviation (%) |
|----------------|-------------|------------|----------------|-----------------|---------------|
| 100 %          | 3.80        | + 20 (Ref) | 2,534,999,992  | -7.88           | -0.0000003    |
| 100 %          |             | - 30       | 2,534,999,991  | -8.97           | -0.0000004    |
| 100 %          |             | - 20       | 2,534,999,992  | -7.67           | -0.0000003    |
| 100 %          |             | - 10       | 2,534,999,993  | -7.48           | -0.0000003    |
| 100 %          |             | 0          | 2,535,000,031  | 31.21           | 0.0000012     |
| 100 %          |             | + 10       | 2,534,999,993  | -6.54           | -0.0000003    |
| 100 %          |             | + 20       | 2,534,999,992  | -8.34           | -0.0000003    |
| 100 %          |             | + 30       | 2,534,999,991  | -8.56           | -0.0000003    |
| 100 %          |             | + 40       | 2,534,999,992  | -7.55           | -0.0000003    |
| 100 %          |             | + 50       | 2,534,999,991  | -9.07           | -0.0000004    |
| BATT. ENDPOINT | 3.19        | + 20       | 2,534,999,991  | -8.94           | -0.0000004    |

**Table 7-55. Frequency Stability Data (Band 7)**

**Note:**

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 256 of 260                 |

## Band 7 Frequency Stability Measurements

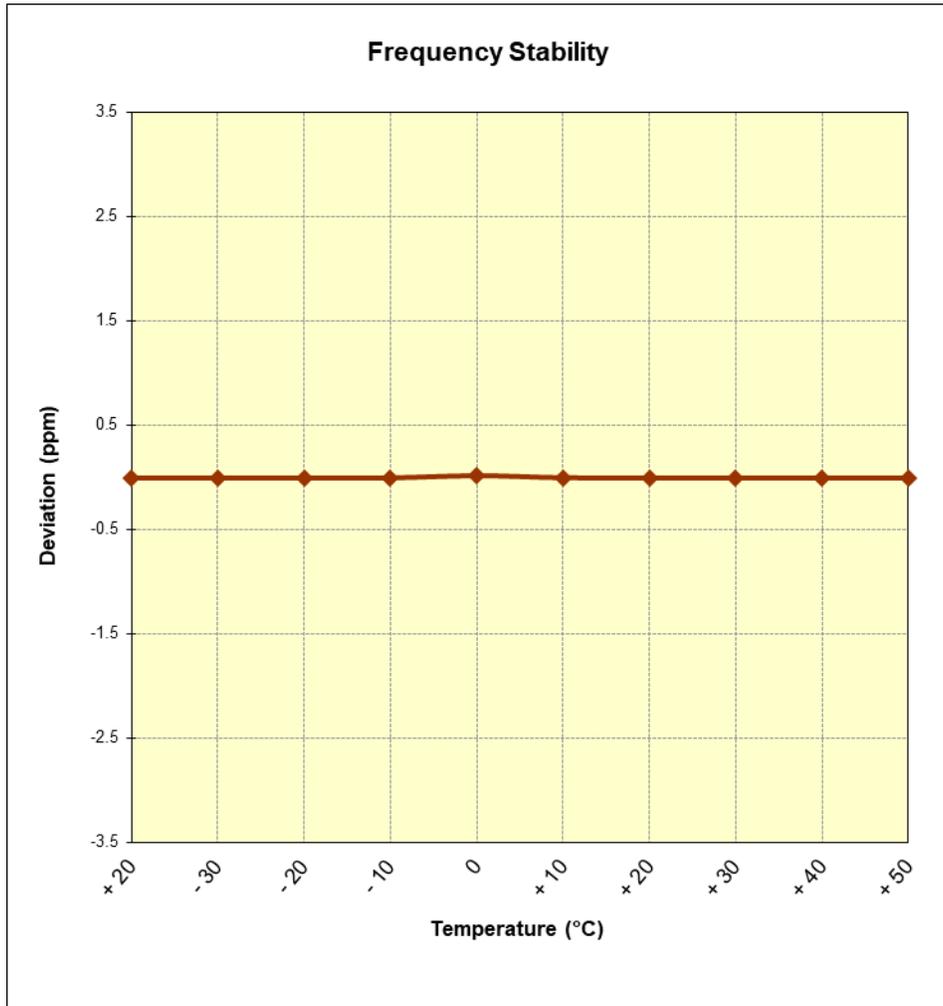


Figure 7-17. Frequency Stability Graph (Band 7)

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 257 of 260                 |

## Band 41 Frequency Stability Measurements

OPERATING FREQUENCY: 2,593,000,000 Hz  
 CHANNEL: 40620  
 REFERENCE VOLTAGE: 3.80 VDC

| VOLTAGE (%)    | POWER (VDC) | TEMP (°C)  | FREQUENCY (Hz) | Freq. Dev. (Hz) | Deviation (%) |
|----------------|-------------|------------|----------------|-----------------|---------------|
| 100 %          | 3.80        | + 20 (Ref) | 2,593,000,027  | 27.24           | 0.0000011     |
| 100 %          |             | - 30       | 2,593,000,034  | 34.26           | 0.0000013     |
| 100 %          |             | - 20       | 2,593,000,038  | 38.24           | 0.0000015     |
| 100 %          |             | - 10       | 2,593,000,041  | 40.74           | 0.0000016     |
| 100 %          |             | 0          | 2,593,000,038  | 38.48           | 0.0000015     |
| 100 %          |             | + 10       | 2,593,000,037  | 36.66           | 0.0000014     |
| 100 %          |             | + 20       | 2,593,000,031  | 30.91           | 0.0000012     |
| 100 %          |             | + 30       | 2,593,000,030  | 29.51           | 0.0000011     |
| 100 %          |             | + 40       | 2,593,000,036  | 35.82           | 0.0000014     |
| 100 %          |             | + 50       | 2,593,000,036  | 35.76           | 0.0000014     |
| BATT. ENDPOINT |             | 3.19       | + 20           | 2,593,000,033   | 32.86         |

**Table 7-56. Frequency Stability Data (Band 41)**

**Note:**

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 258 of 260                 |

## Band 41 Frequency Stability Measurements

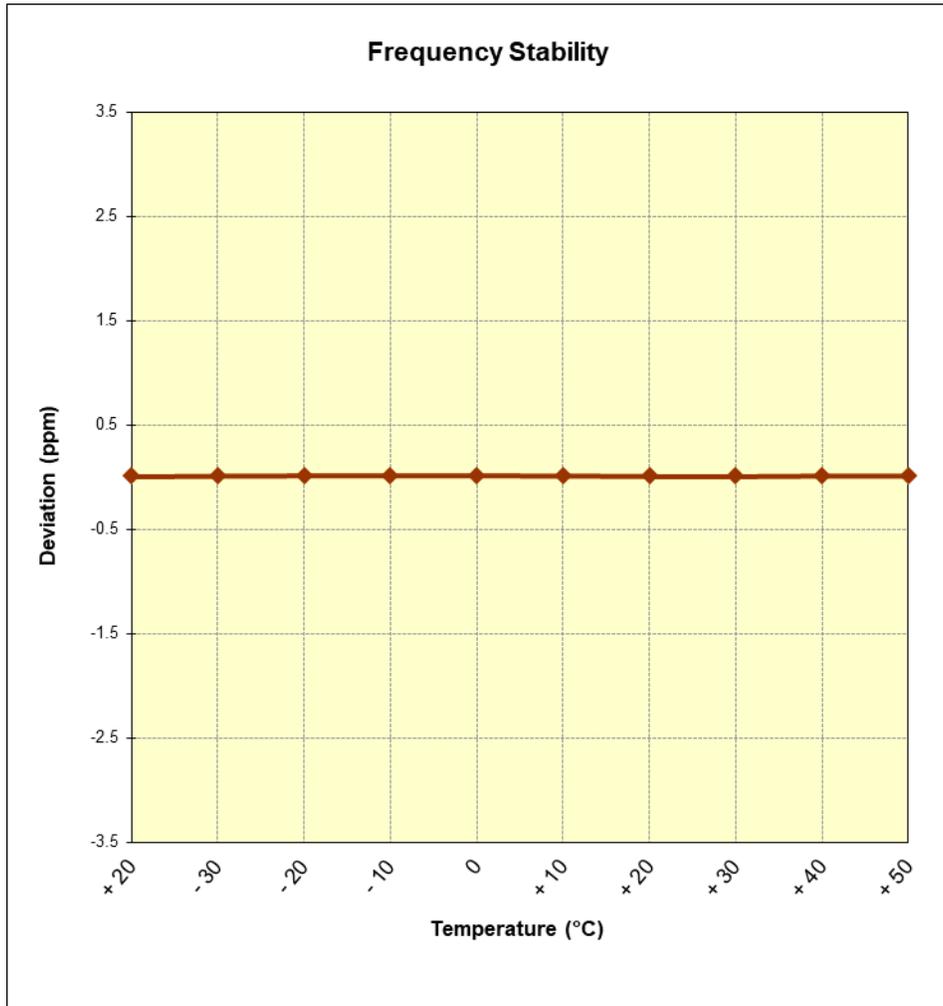


Figure 7-18. Frequency Stability Graph (Band 41)

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 259 of 260                 |

## 8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Apple Tablet Device FCC ID: BCGA1954** complies with all the requirements of Part 22, 24, & 27 of the FCC Rules and RSS-130, RSS-132, RSS-133, RSS-139, RSS-195, RSS-199 of the Innovation, Science and Economic Development Canada Rules for LTE operation only.

|  |   |                            |                                 |
|--|---|----------------------------|---------------------------------|
| FCC ID: BCGA1954                           |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                            | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1710060006-03-R2.BCG | Test Dates:<br>10/31/2017-2/15/2018   | EUT Type:<br>Tablet Device | Page 260 of 260                 |