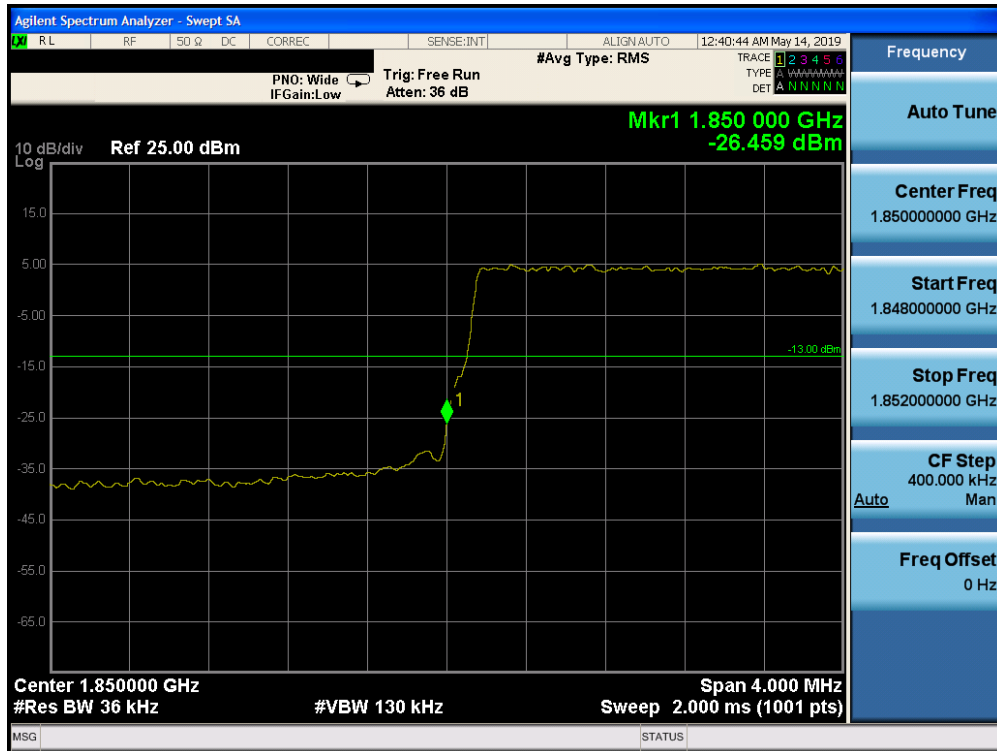
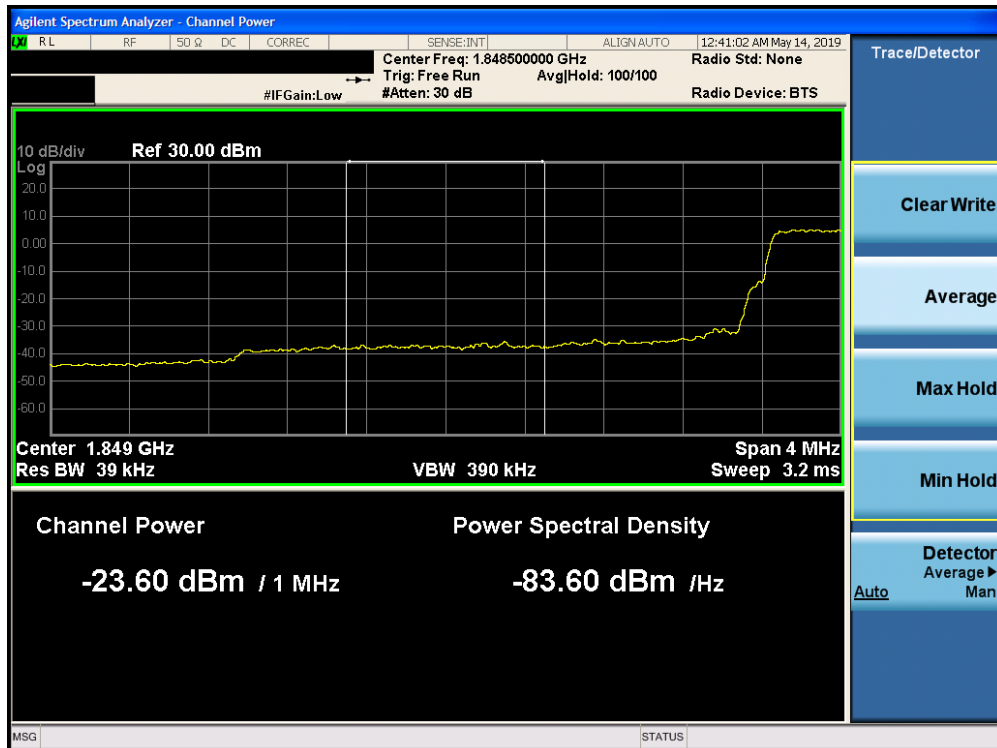


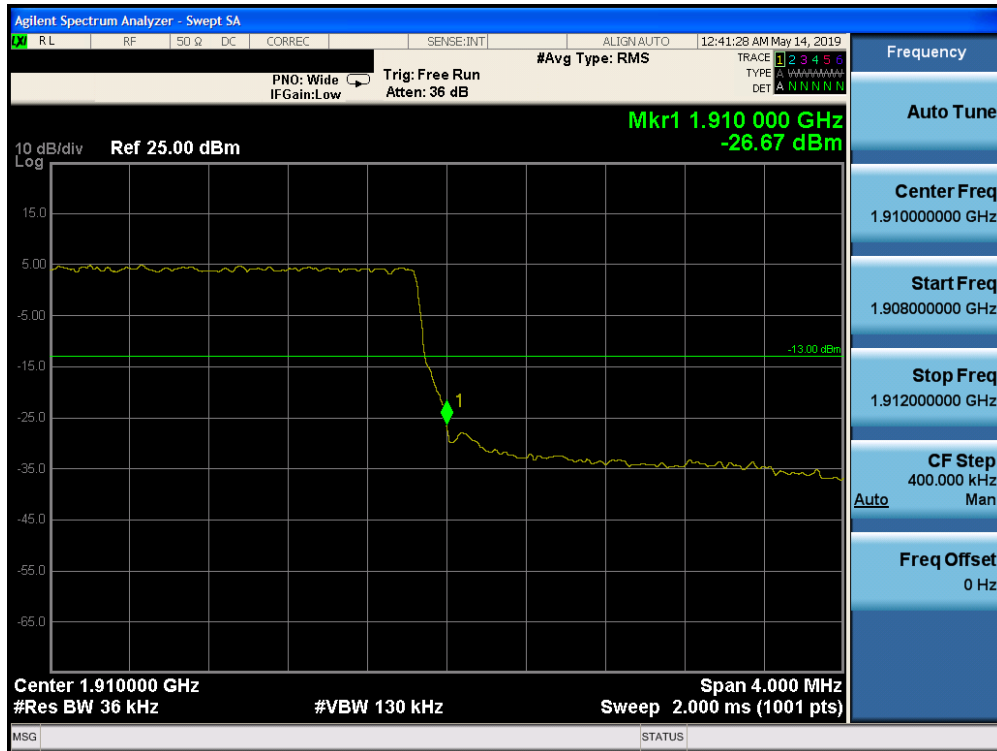


Plot 7-232. Lower Band Edge Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

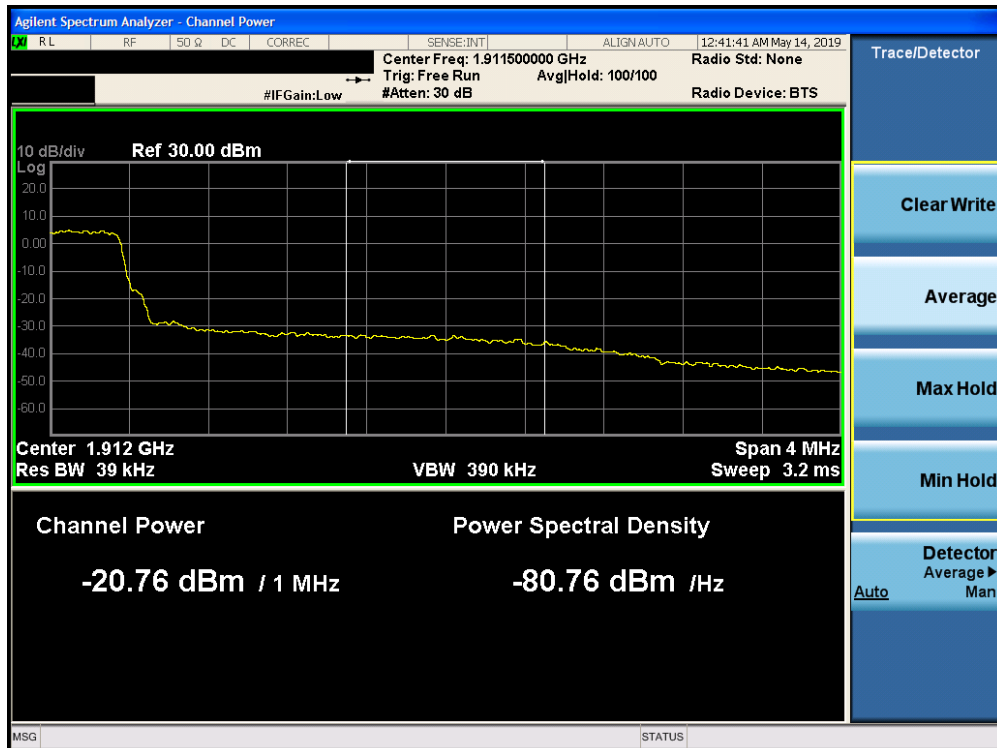


Plot 7-233. Lower Extended Band Edge Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

|                                         |                                              |                    |                                 |
|-----------------------------------------|----------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       | <b>MEASUREMENT REPORT</b><br>(CERTIFICATION) |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019       | EUT Type:<br>Watch | Page 145 of 238                 |

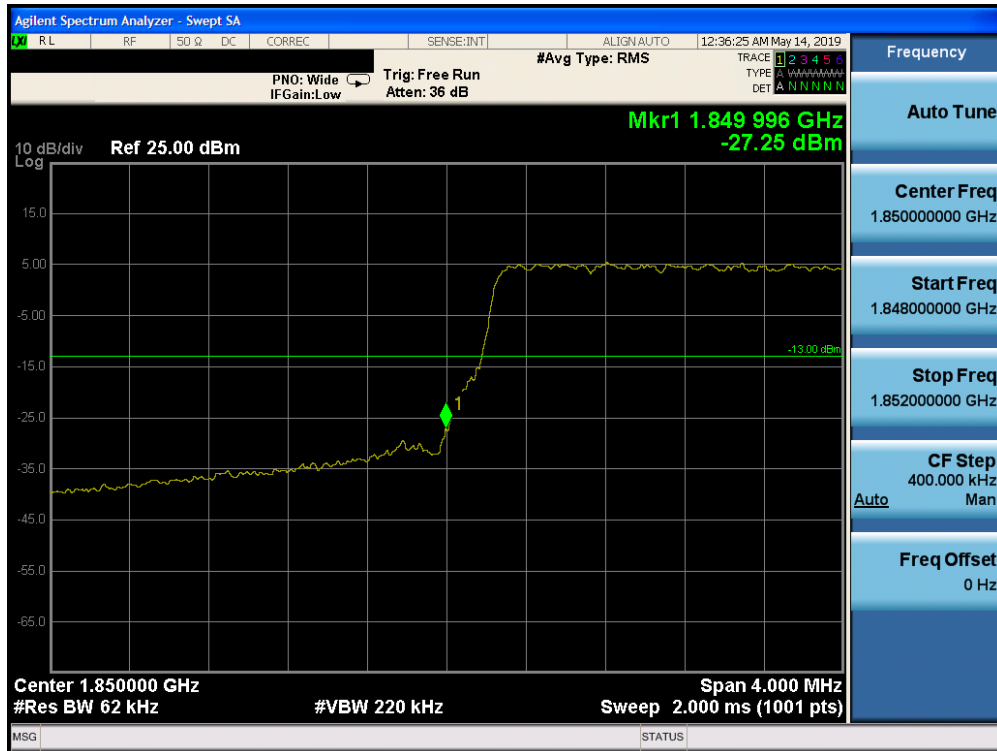


Plot 7-234. Upper Band Edge Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

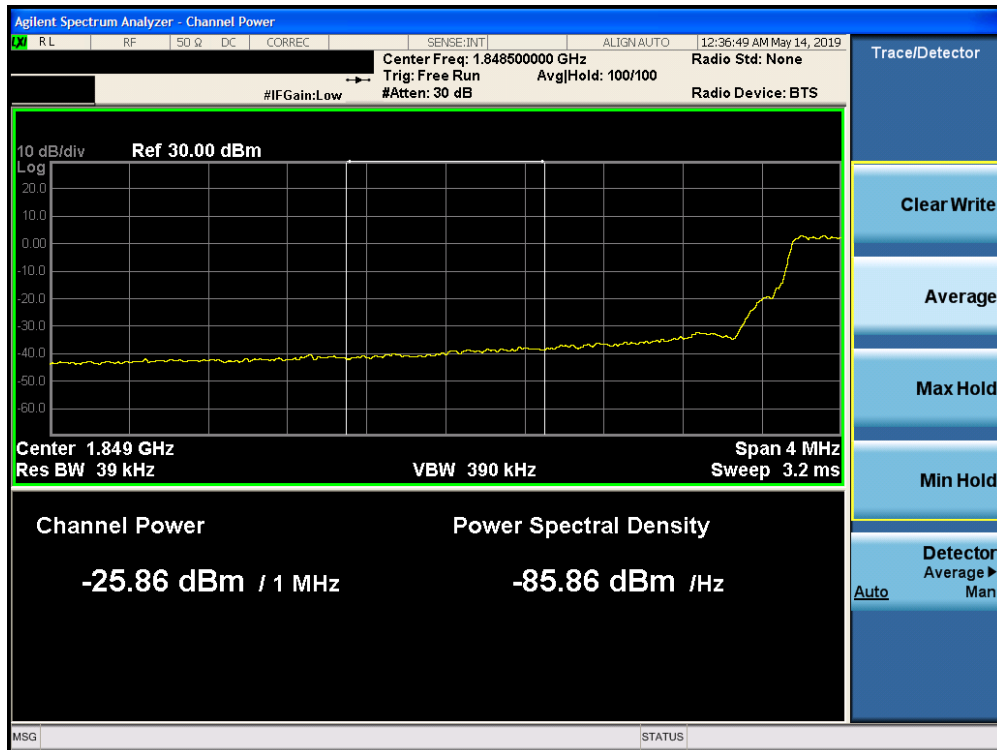


Plot 7-235. Upper Extended Band Edge Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)

|                                         |                                                                                                                                   |                    |                                 |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019                                                                                            | EUT Type:<br>Watch | Page 146 of 238                 |

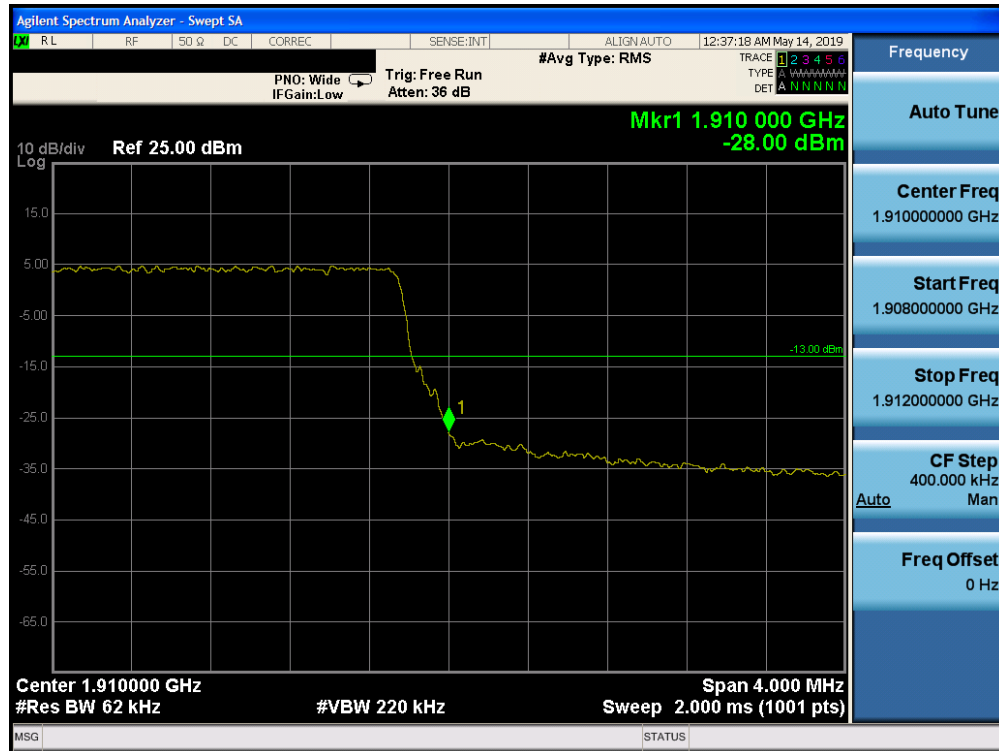


Plot 7-236. Lower Band Edge Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

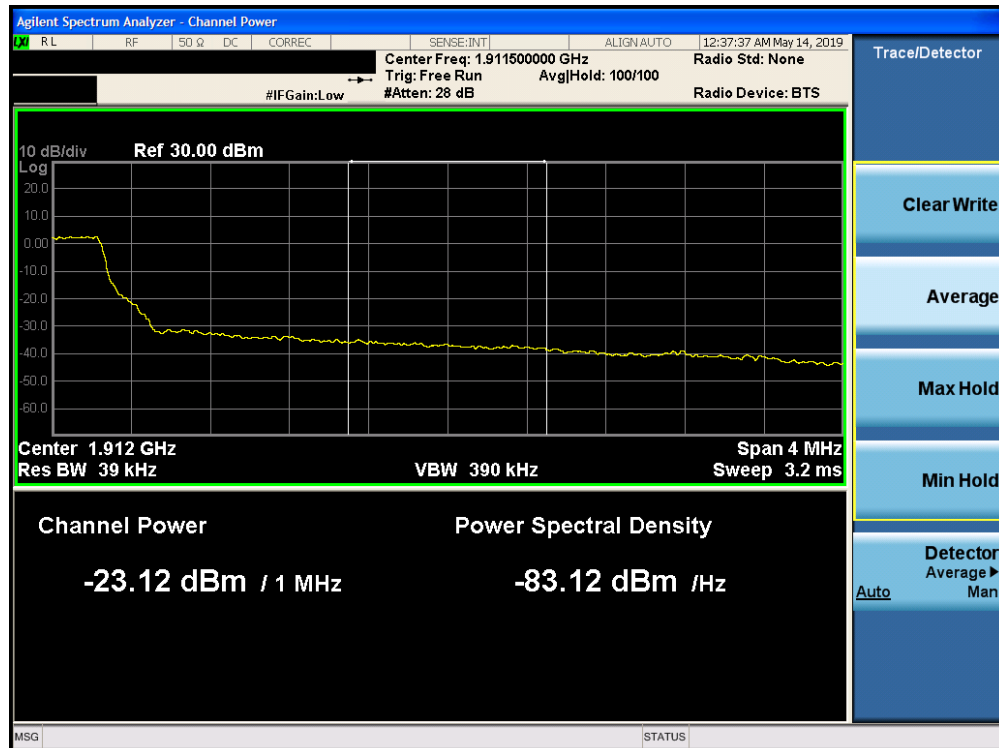


Plot 7-237. Lower Extended Band Edge Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

|                                         |                                              |                    |                                 |
|-----------------------------------------|----------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       | <b>MEASUREMENT REPORT</b><br>(CERTIFICATION) |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019       | EUT Type:<br>Watch | Page 147 of 238                 |

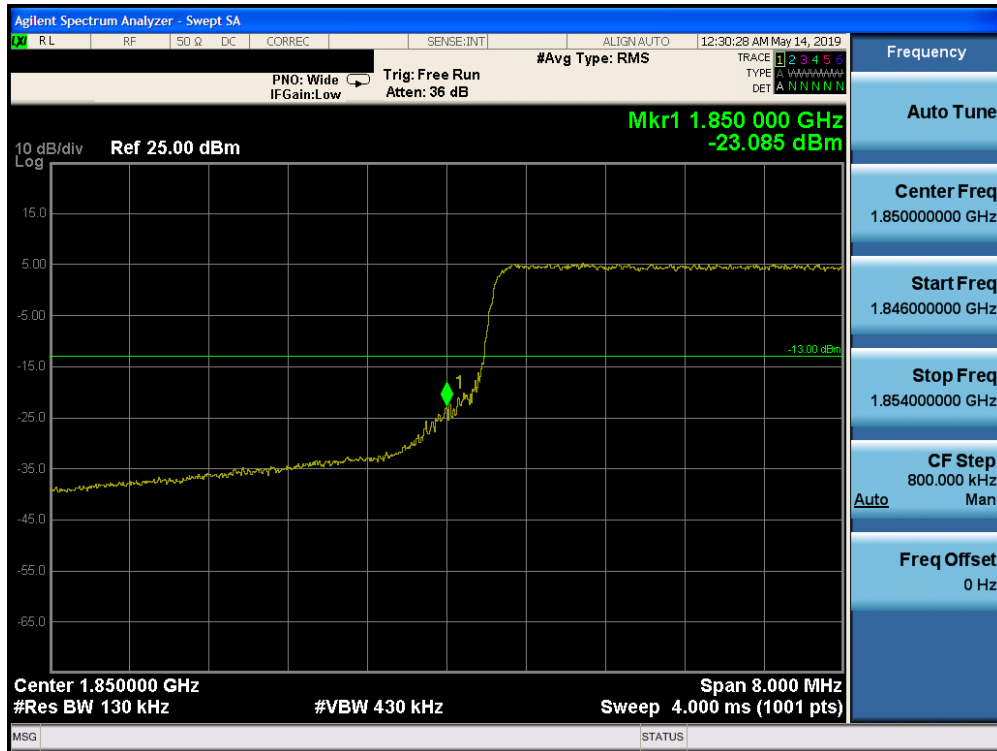


Plot 7-238. Upper Band Edge Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

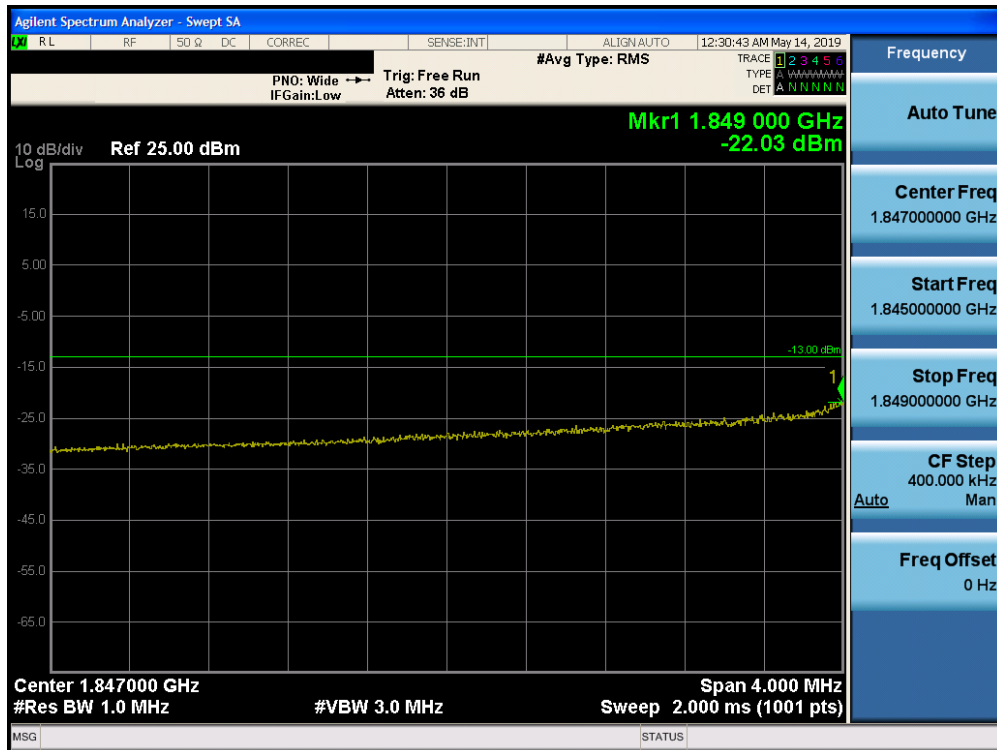


Plot 7-239. Upper Extended Band Edge Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

|                                         |                                              |                    |                                 |
|-----------------------------------------|----------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       | <b>MEASUREMENT REPORT</b><br>(CERTIFICATION) |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019       | EUT Type:<br>Watch | Page 148 of 238                 |

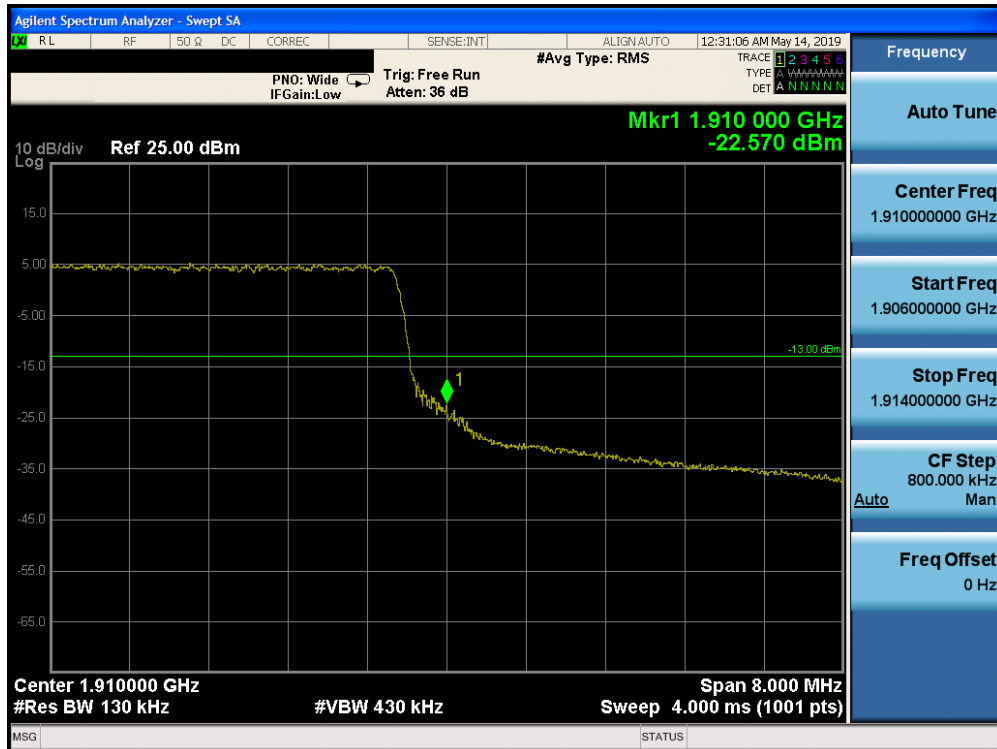


Plot 7-240. Lower Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)



Plot 7-241. Lower Extended Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

|                                         |                                                                                                                                  |                    |                                 |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       |  <b>MEASUREMENT REPORT</b><br>(CERTIFICATION) |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019                                                                                           | EUT Type:<br>Watch | Page 149 of 238                 |

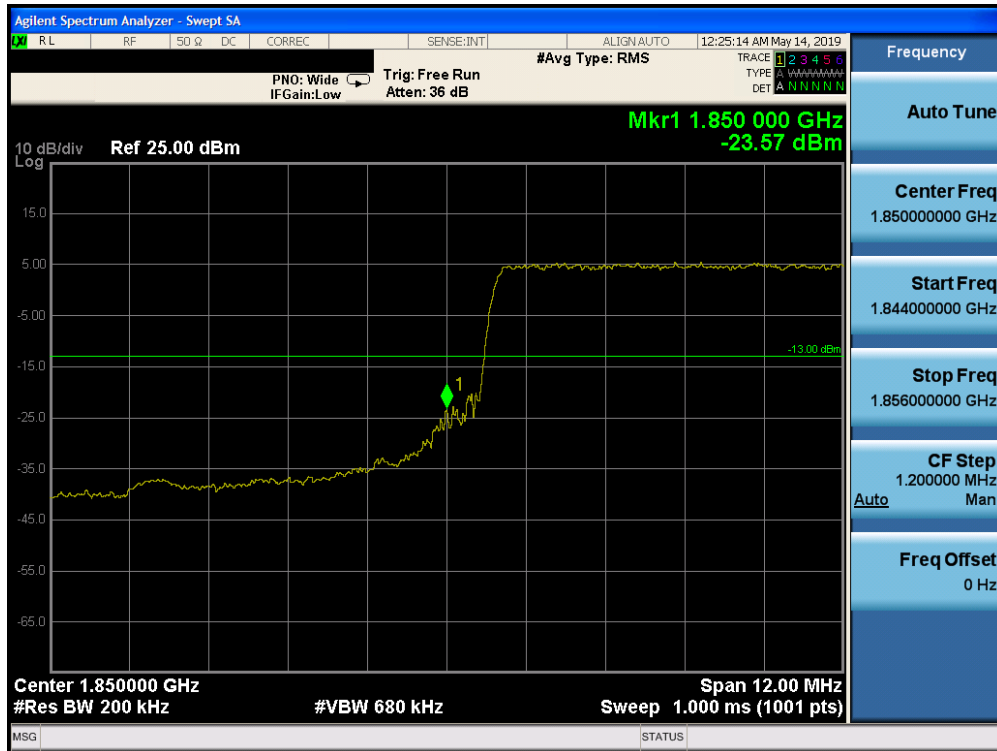


Plot 7-242. Upper Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

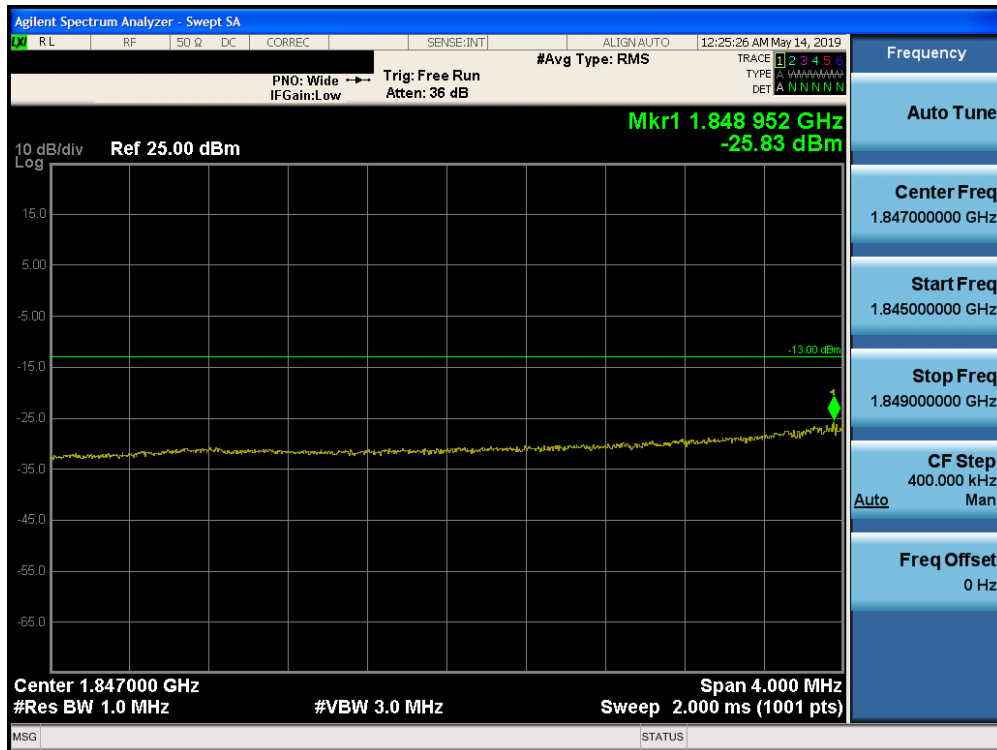


Plot 7-243. Upper Extended Band Edge Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

|                                         |                                                                                                                                   |                    |                                 |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019                                                                                            | EUT Type:<br>Watch | Page 150 of 238                 |

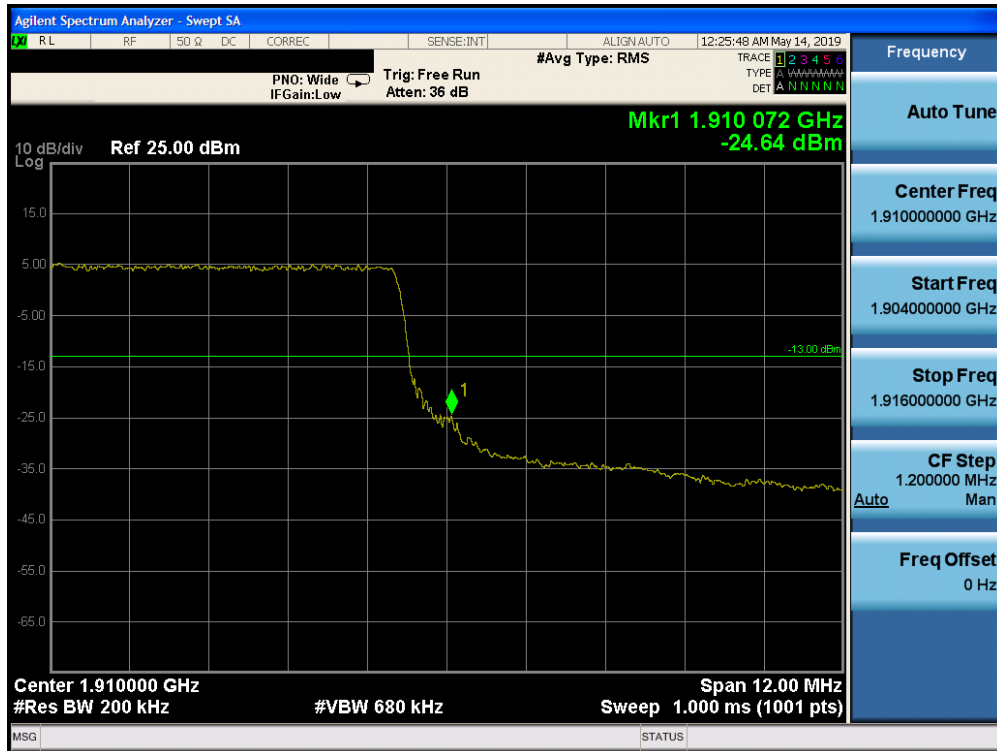


Plot 7-244. Lower Band Edge Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)

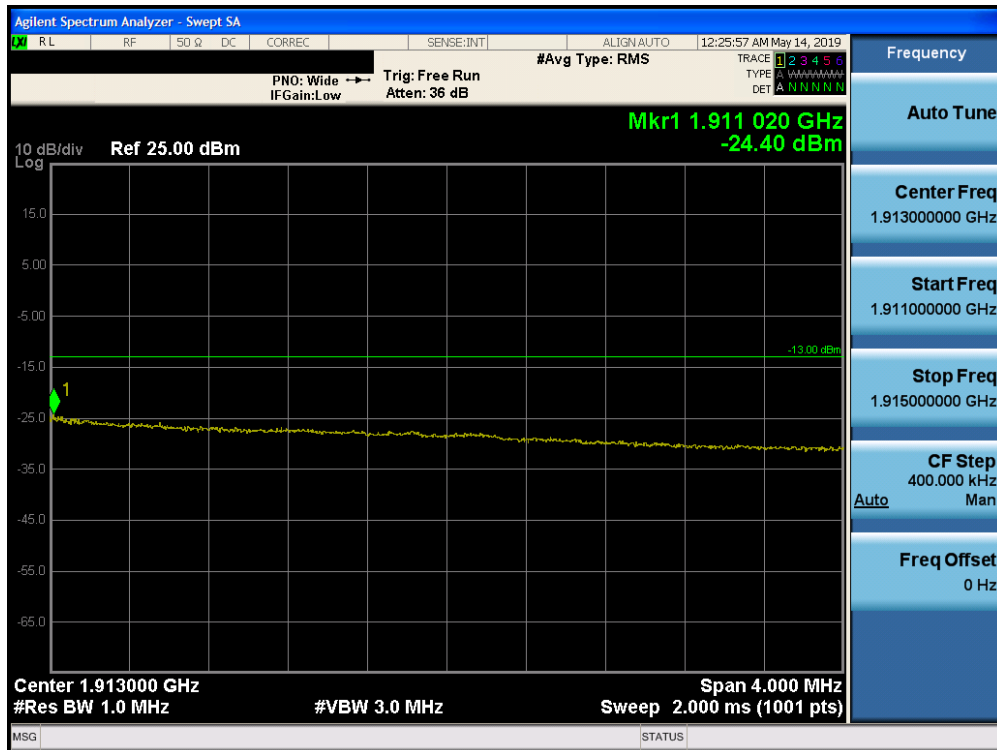


Plot 7-245. Lower Extended Band Edge Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)

|                                         |                                               |                    |                                 |
|-----------------------------------------|-----------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019        | EUT Type:<br>Watch | Page 151 of 238                 |

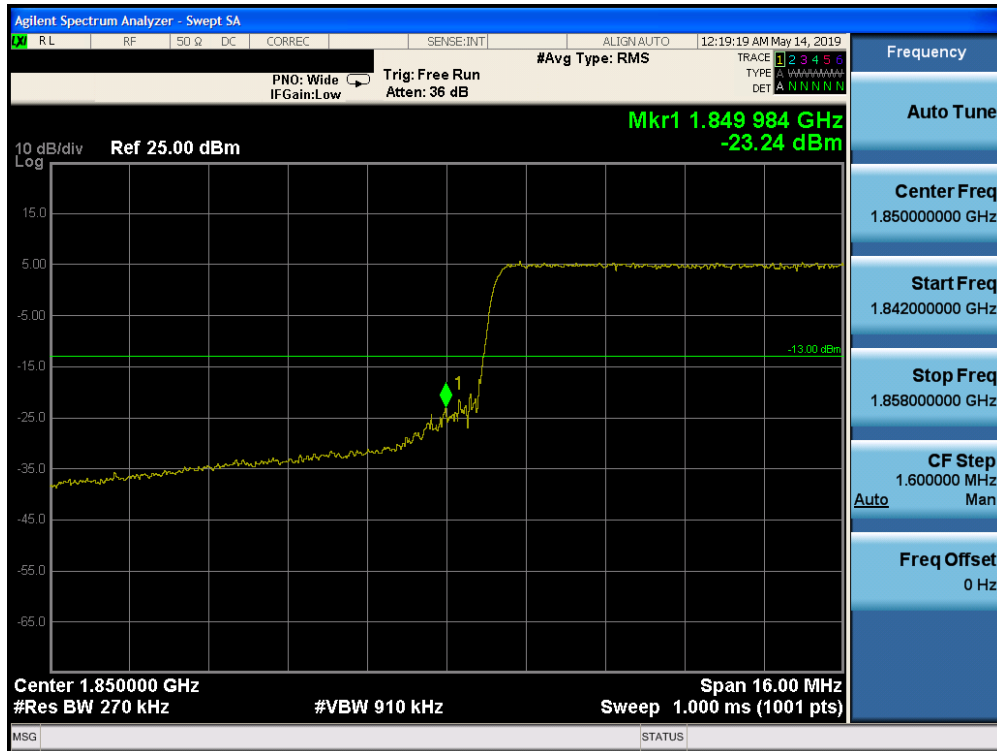


Plot 7-246. Upper Band Edge Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)

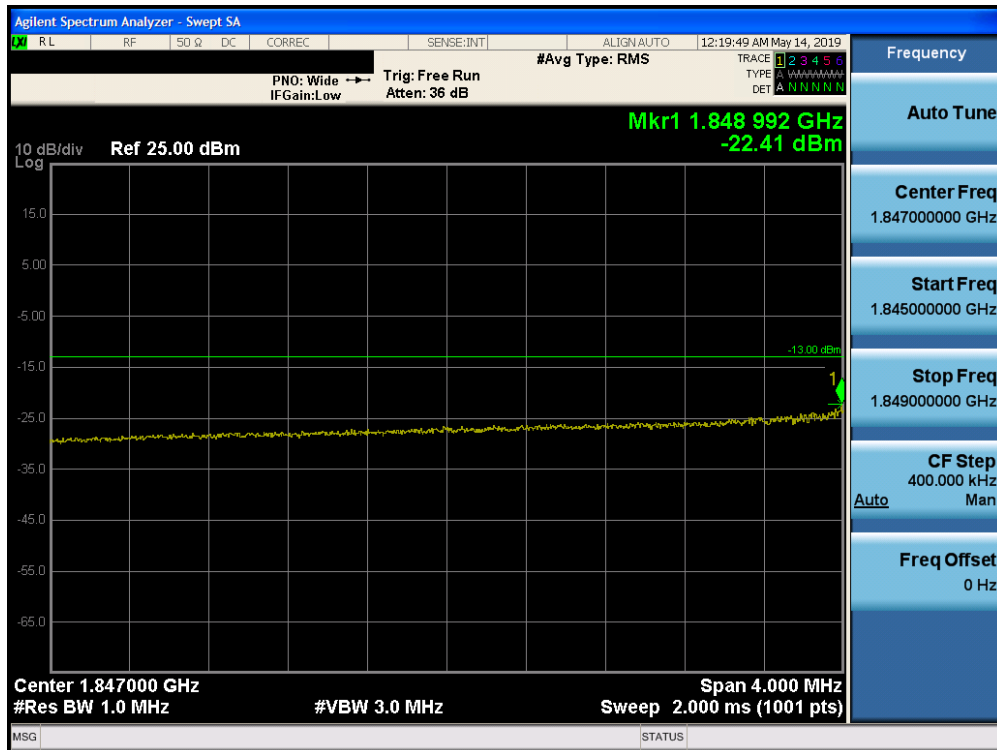


Plot 7-247. Upper Extended Band Edge Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)

|                                         |                                               |                                       |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCG-A2094                       | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019        | EUT Type:<br>Watch                    | Page 152 of 238                 |

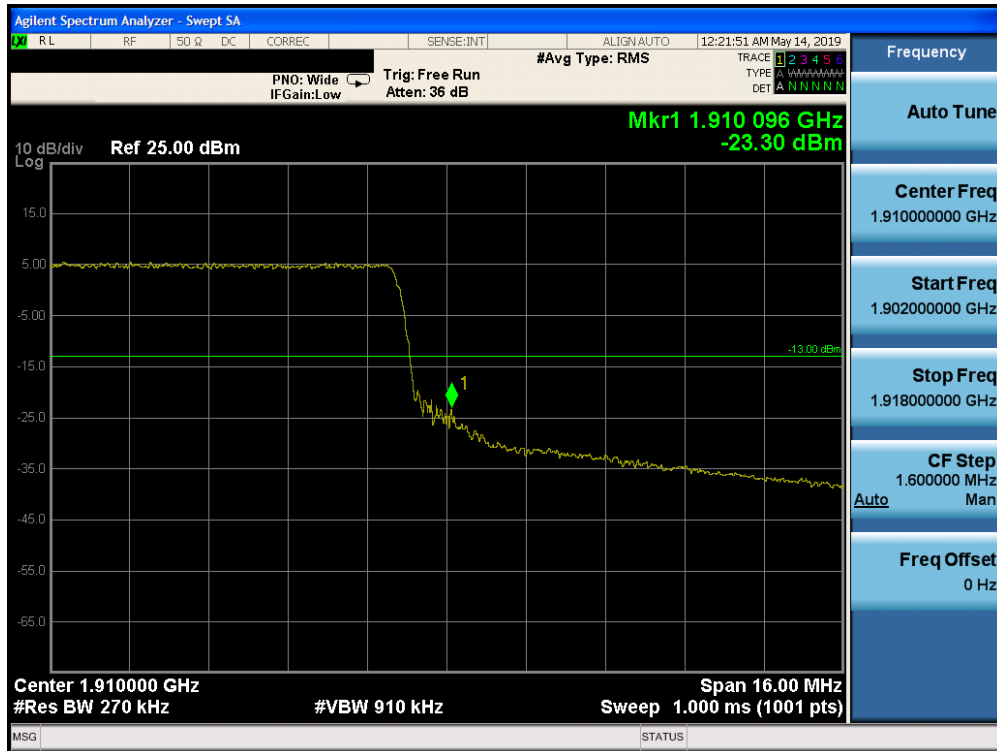


Plot 7-248. Lower Band Edge Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)

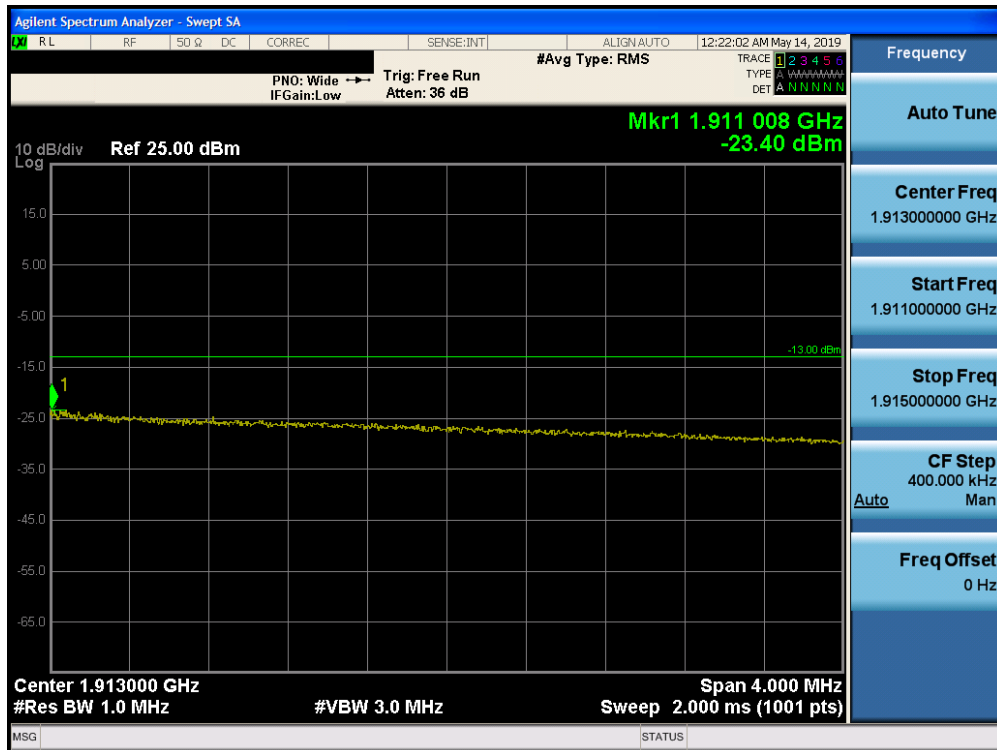


Plot 7-249. Lower Extended Band Edge Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)

|                                         |                                                                                                                                   |                    |                                 |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019                                                                                            | EUT Type:<br>Watch | Page 153 of 238                 |



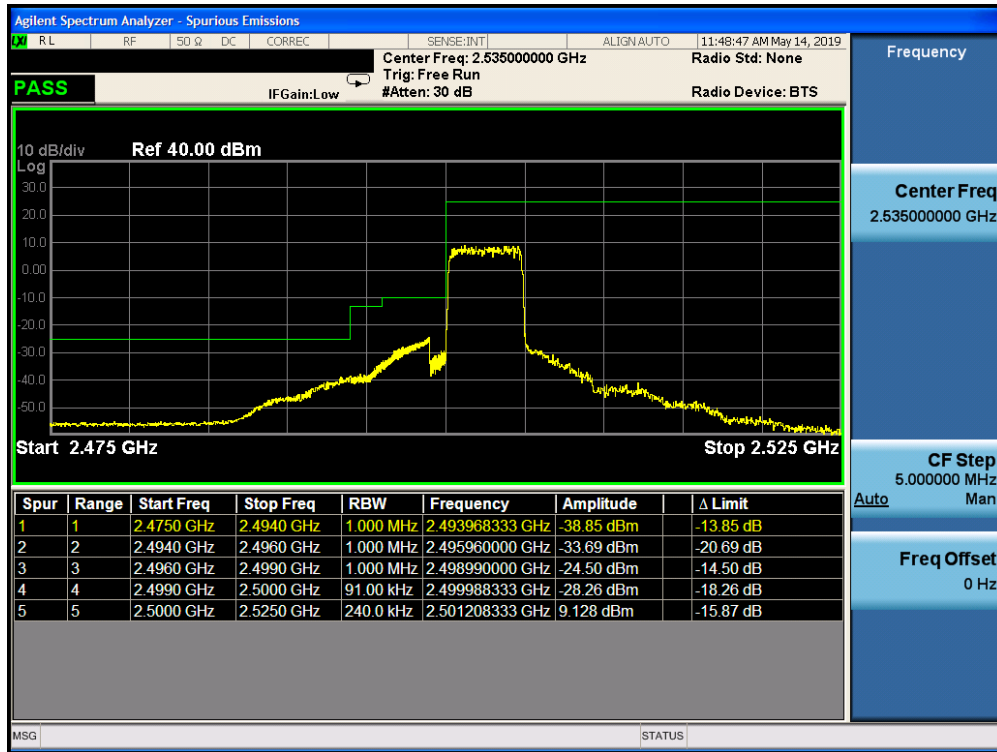
Plot 7-250. Upper Band Edge Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)



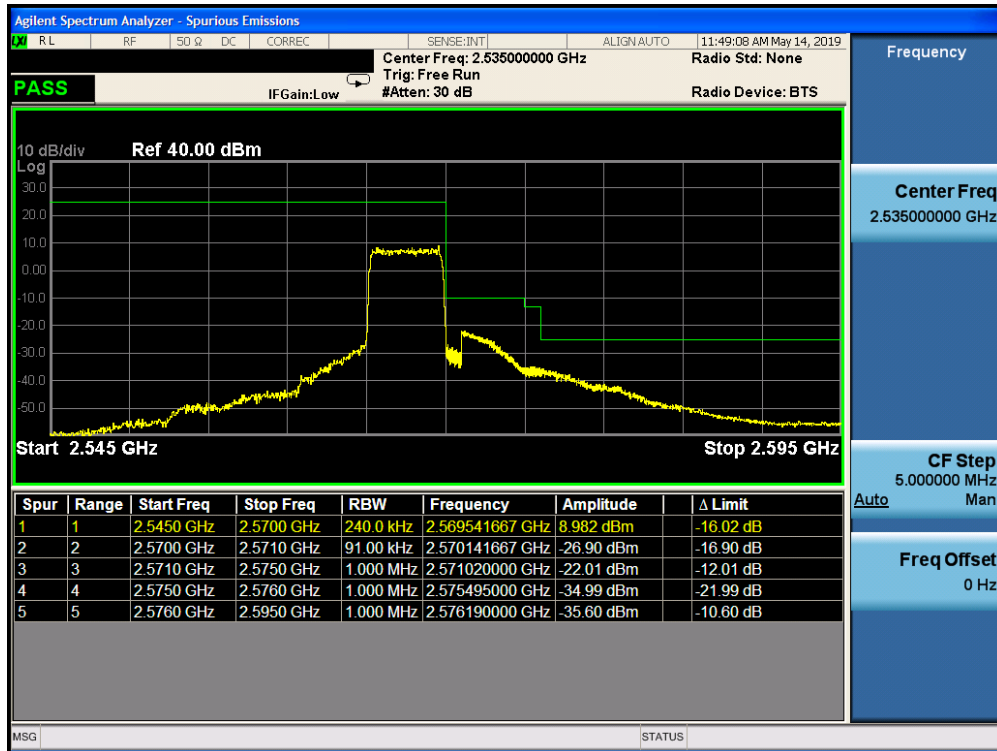
Plot 7-251. Upper Extended Band Edge Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)

|                                         |                                                                                                                                  |                    |                                 |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       |  <b>MEASUREMENT REPORT</b><br>(CERTIFICATION) |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019                                                                                           | EUT Type:<br>Watch | Page 154 of 238                 |

## Band 7

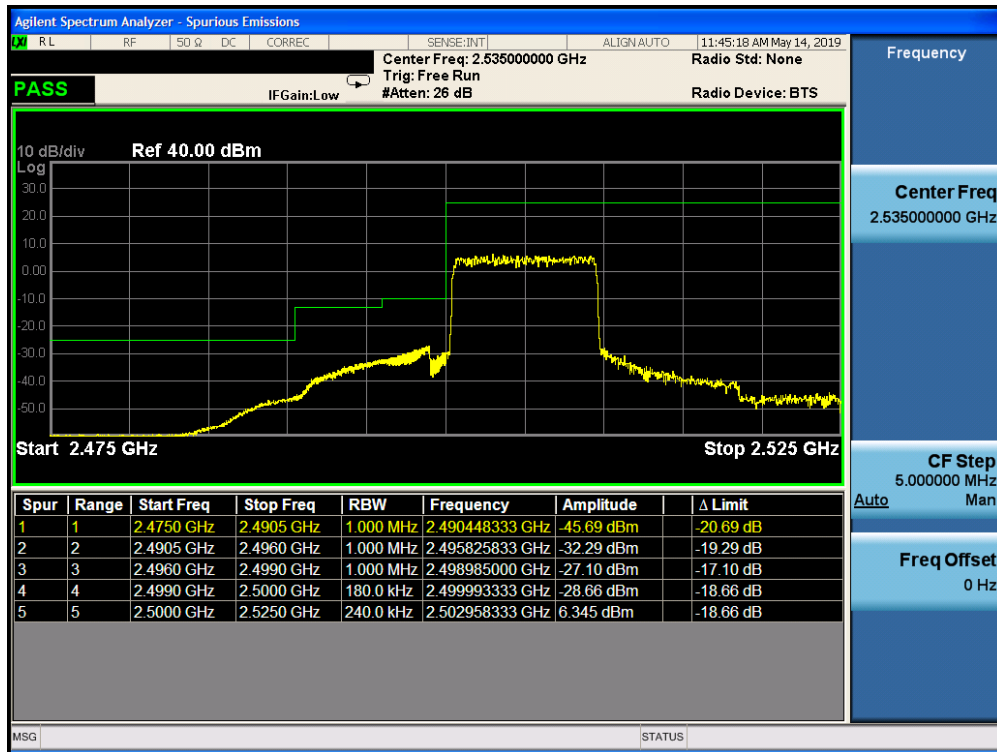


Plot 7-252. Lower ACP Plot (Band 7 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-253. Upper ACP Plot (Band 7 - 5.0MHz QPSK - Full RB Configuration)

|                                         |                                              |                    |                                 |
|-----------------------------------------|----------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       | <b>MEASUREMENT REPORT</b><br>(CERTIFICATION) |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019       | EUT Type:<br>Watch | Page 155 of 238                 |

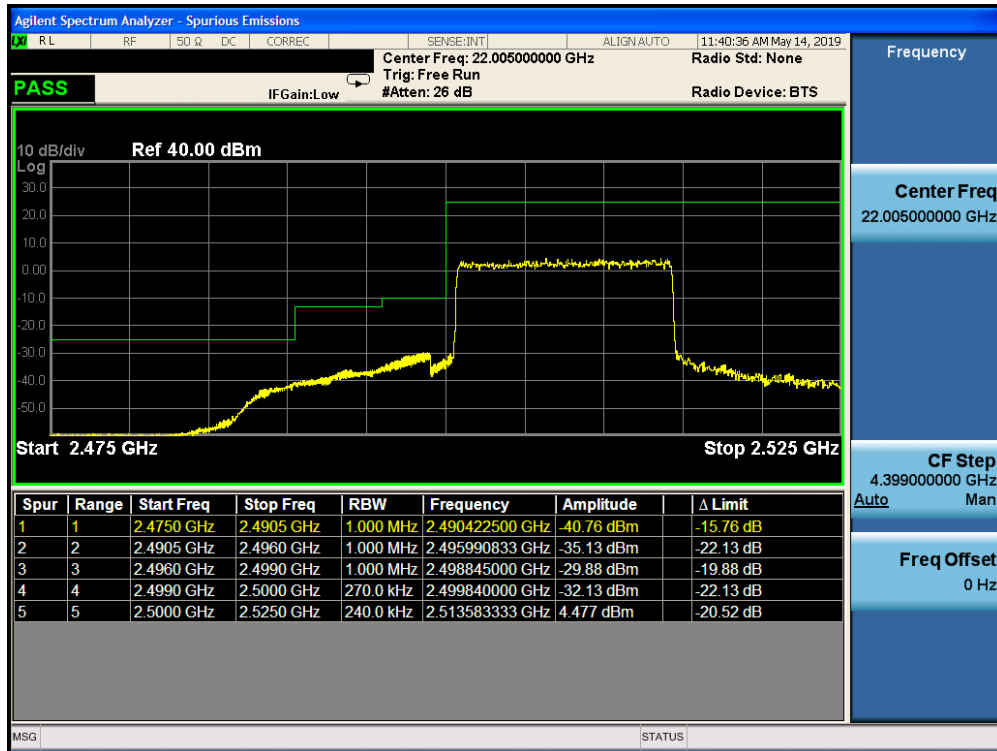


Plot 7-254. Lower ACP Plot (Band 7 - 10.0MHz QPSK - Full RB Configuration)

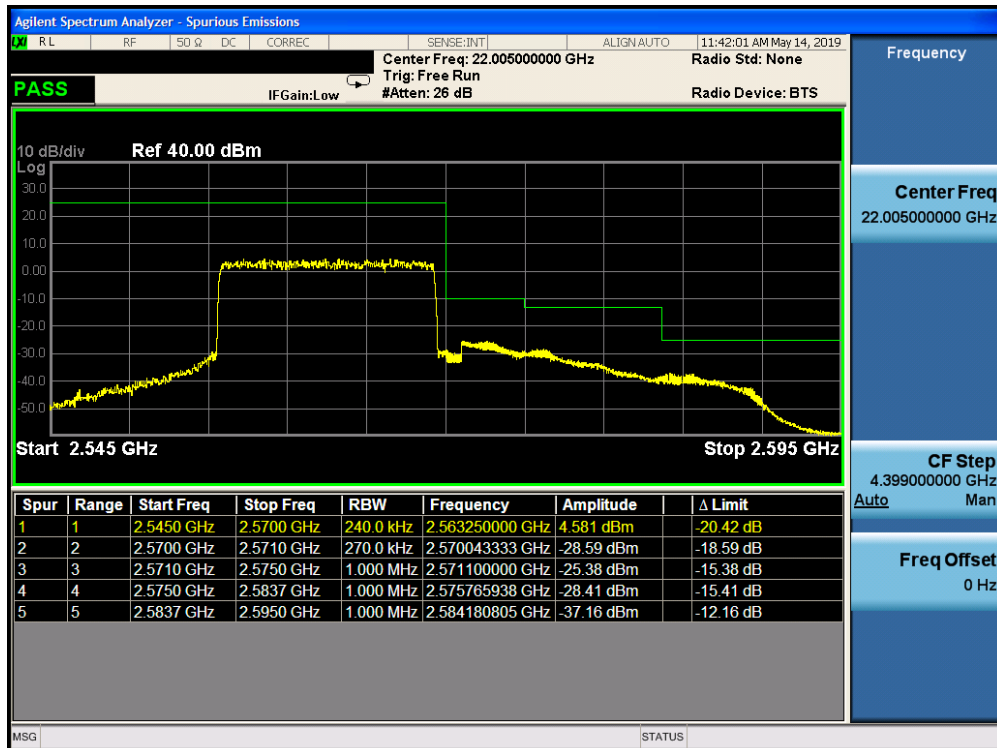


Plot 7-255. Upper ACP Plot (Band 7 - 10.0MHz QPSK - Full RB Configuration)

|                                         |                                              |                    |                                 |
|-----------------------------------------|----------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       | <b>MEASUREMENT REPORT</b><br>(CERTIFICATION) |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019       | EUT Type:<br>Watch | Page 156 of 238                 |

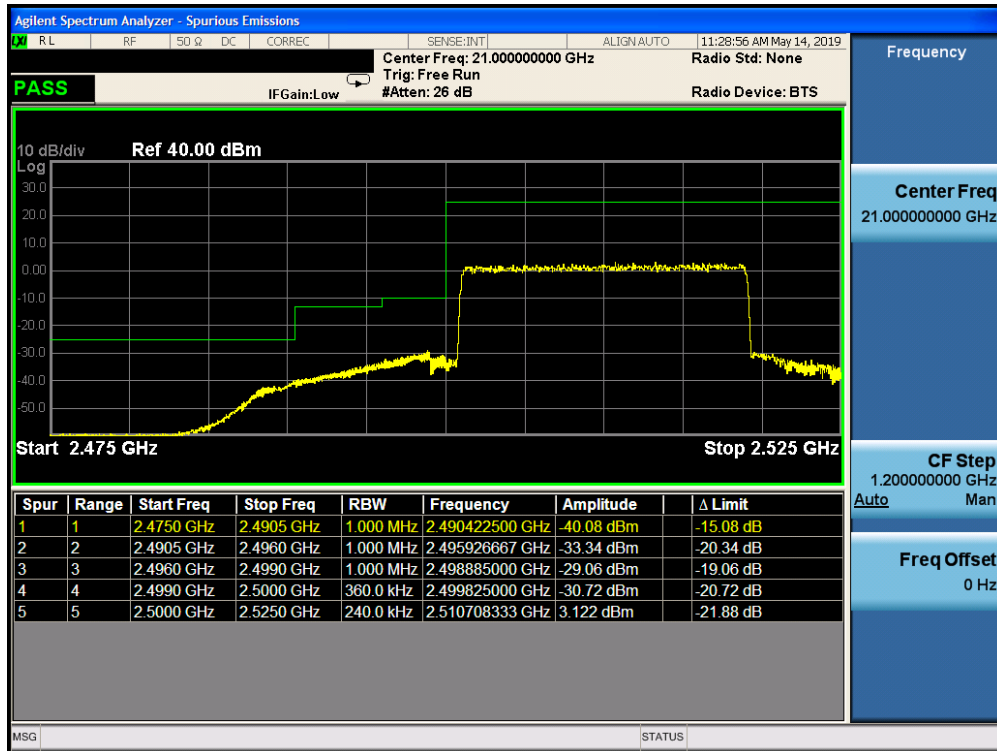


Plot 7-256. Lower ACP Plot (Band 7 - 15.0MHz QPSK - Full RB Configuration)

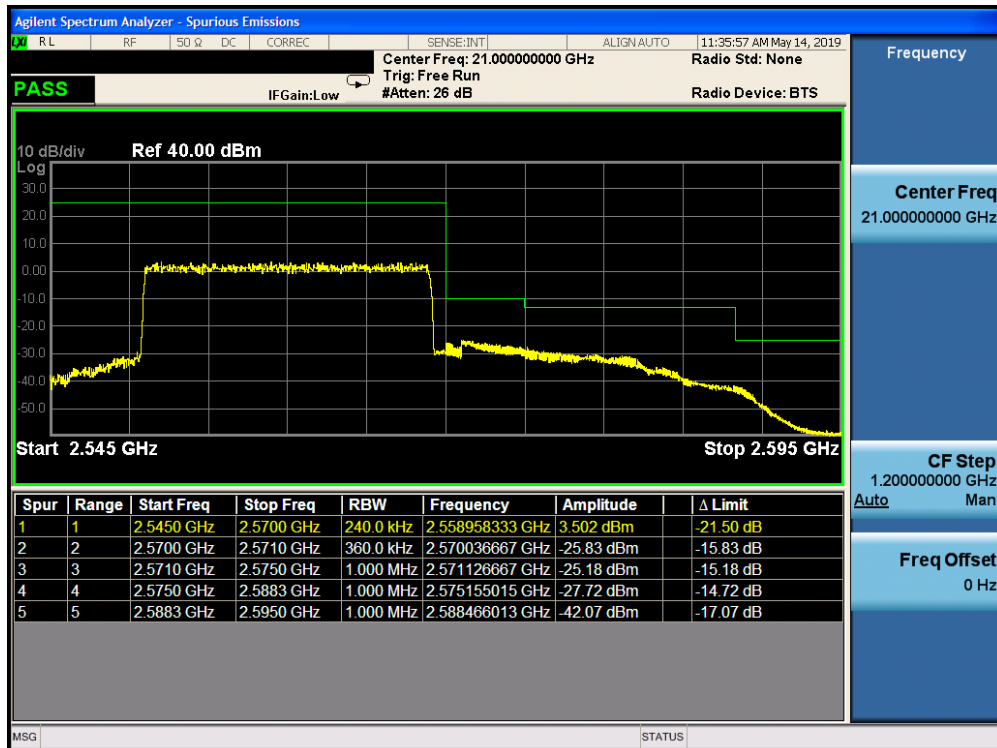


Plot 7-257. Upper ACP Plot (Band 7 - 15.0MHz QPSK - Full RB Configuration)

|                                         |                                              |                    |                                 |
|-----------------------------------------|----------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       | <b>MEASUREMENT REPORT</b><br>(CERTIFICATION) |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019       | EUT Type:<br>Watch | Page 157 of 238                 |



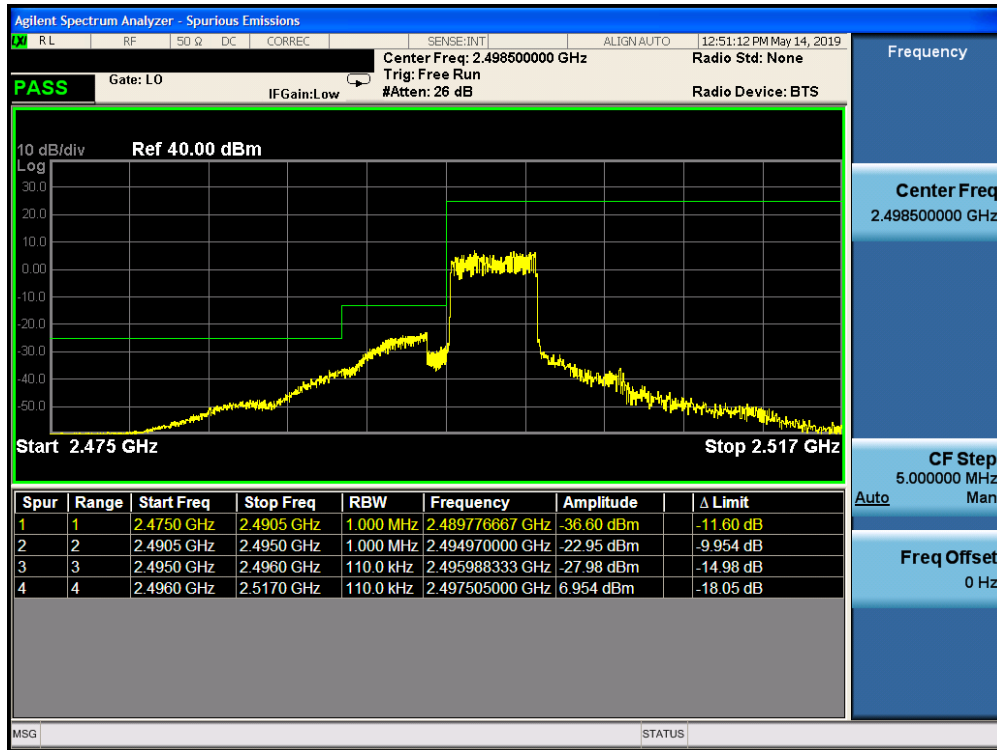
Plot 7-258. Lower ACP Plot (Band 7 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-259. Upper ACP Plot (Band 7 - 20.0MHz QPSK - Full RB Configuration)

|                                         |                                              |                    |                                 |
|-----------------------------------------|----------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       | <b>MEASUREMENT REPORT</b><br>(CERTIFICATION) |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019       | EUT Type:<br>Watch | Page 158 of 238                 |

## Band 41



Plot 7-260. Lower ACP Plot (Band 41 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-261. Upper ACP Plot (Band 41 - 5.0MHz QPSK - Full RB Configuration)

|                                         |                                              |                    |                                 |
|-----------------------------------------|----------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       | <b>MEASUREMENT REPORT</b><br>(CERTIFICATION) |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019       | EUT Type:<br>Watch | Page 159 of 238                 |

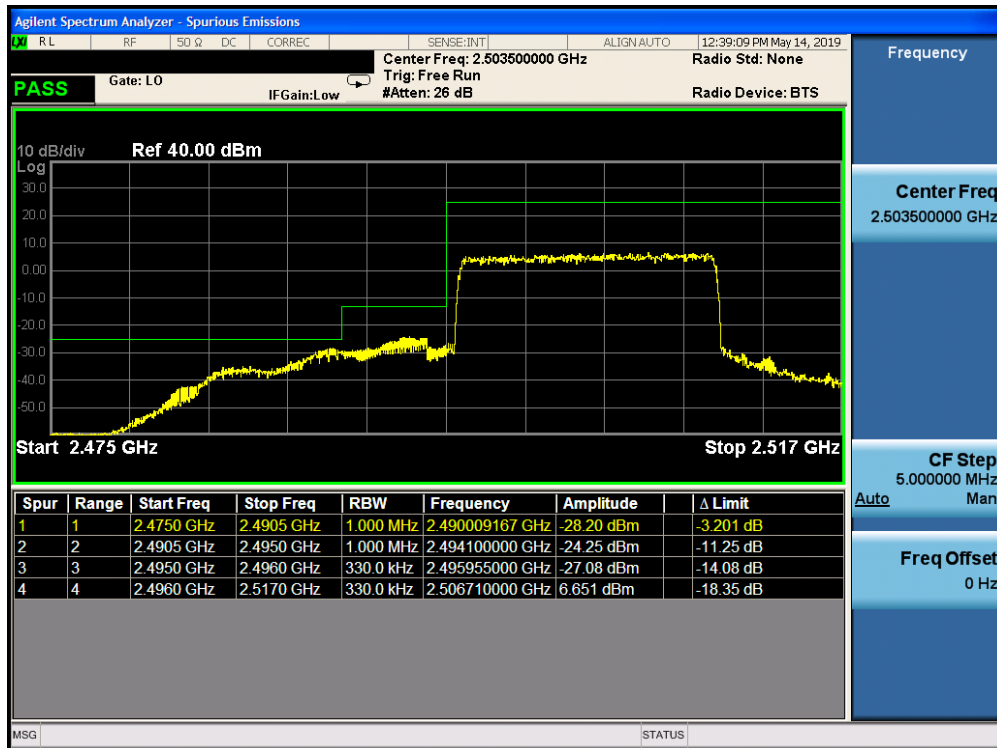


Plot 7-262. Lower ACP Plot (Band 41 - 10.0MHz QPSK - Full RB Configuration)

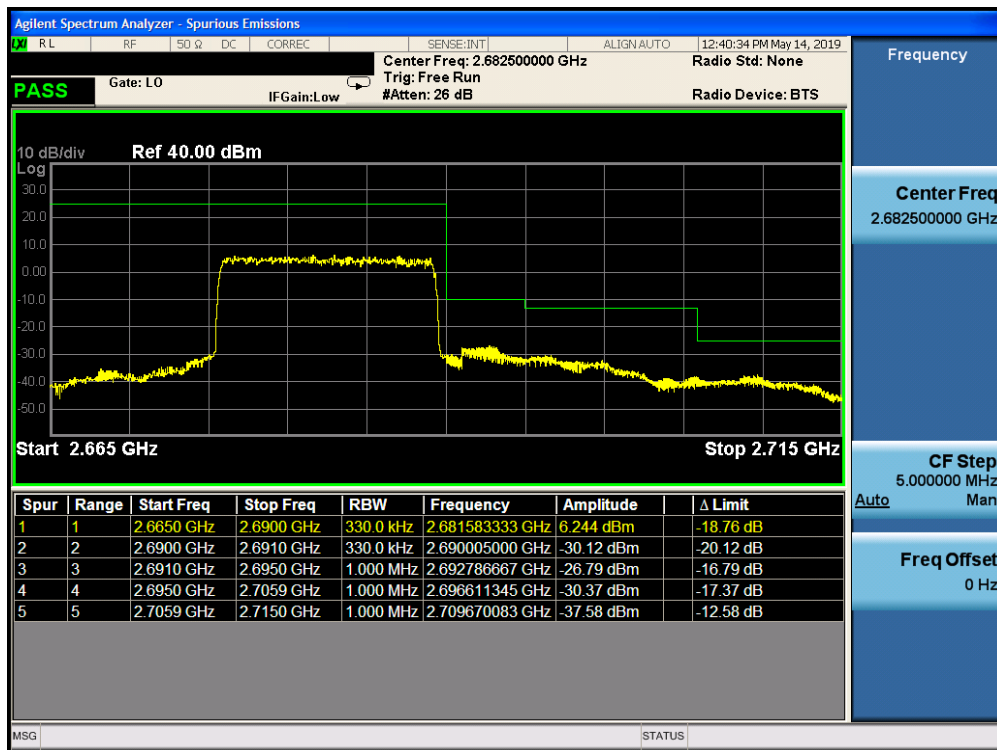


Plot 7-263. Upper ACP Plot (Band 41 - 10.0MHz QPSK - Full RB Configuration)

|                                         |                                                                                                                                  |                    |                                 |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       |  <b>MEASUREMENT REPORT</b><br>(CERTIFICATION) |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019                                                                                           | EUT Type:<br>Watch | Page 160 of 238                 |

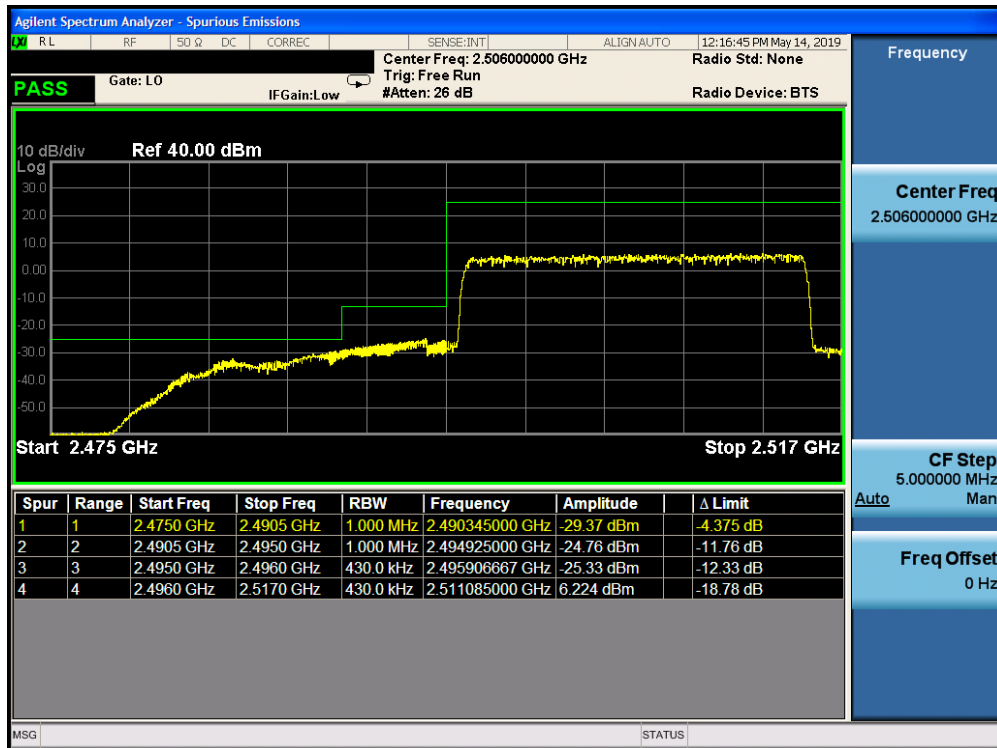


Plot 7-264. Lower ACP Plot (Band 41 - 15.0MHz QPSK - Full RB Configuration)

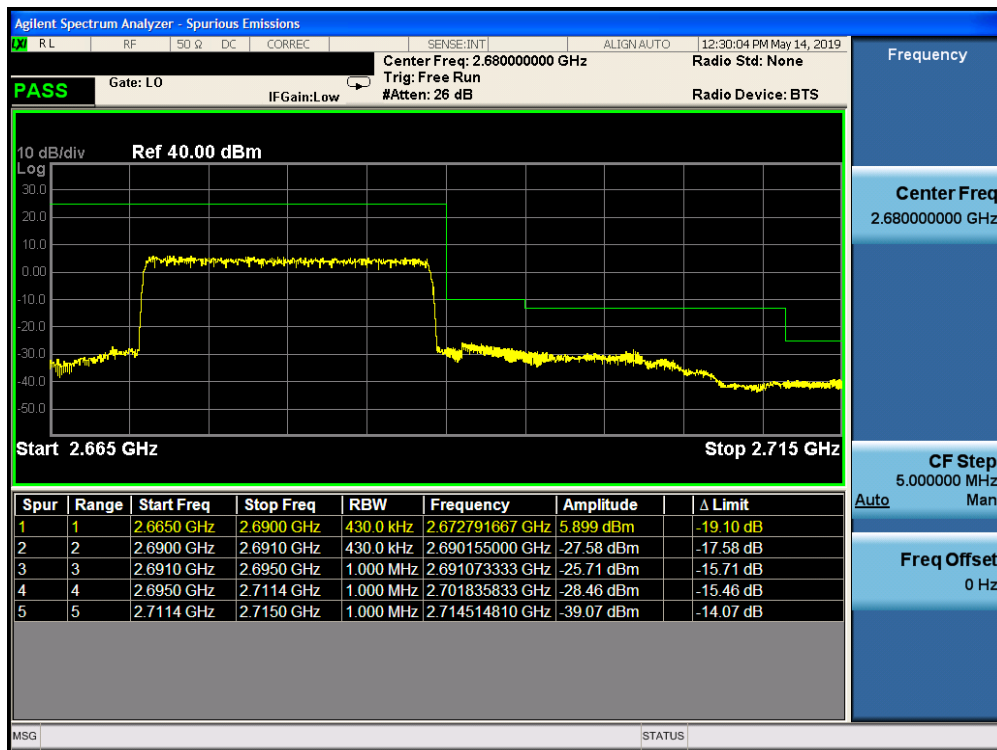


Plot 7-265. Upper ACP Plot (Band 41 - 15.0MHz QPSK - Full RB Configuration)

|                                         |                                              |                    |                                 |
|-----------------------------------------|----------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       | <b>MEASUREMENT REPORT</b><br>(CERTIFICATION) |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019       | EUT Type:<br>Watch | Page 161 of 238                 |



Plot 7-266. Lower ACP Plot (Band 41 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-267. Upper ACP Plot (Band 41 - 20.0MHz QPSK - Full RB Configuration)

|                                         |                                              |                    |                                 |
|-----------------------------------------|----------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       | <b>MEASUREMENT REPORT</b><br>(CERTIFICATION) |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019       | EUT Type:<br>Watch | Page 162 of 238                 |

## 7.5 Peak-Average Ratio

### Test Overview

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

### Test Procedure Used

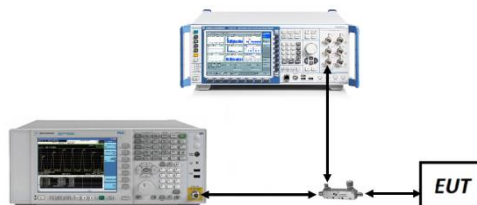
KDB 971168 D01 v03r01 – Section 5.7.1

### Test Settings

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

### Test Setup

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



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

### Test Notes

None.

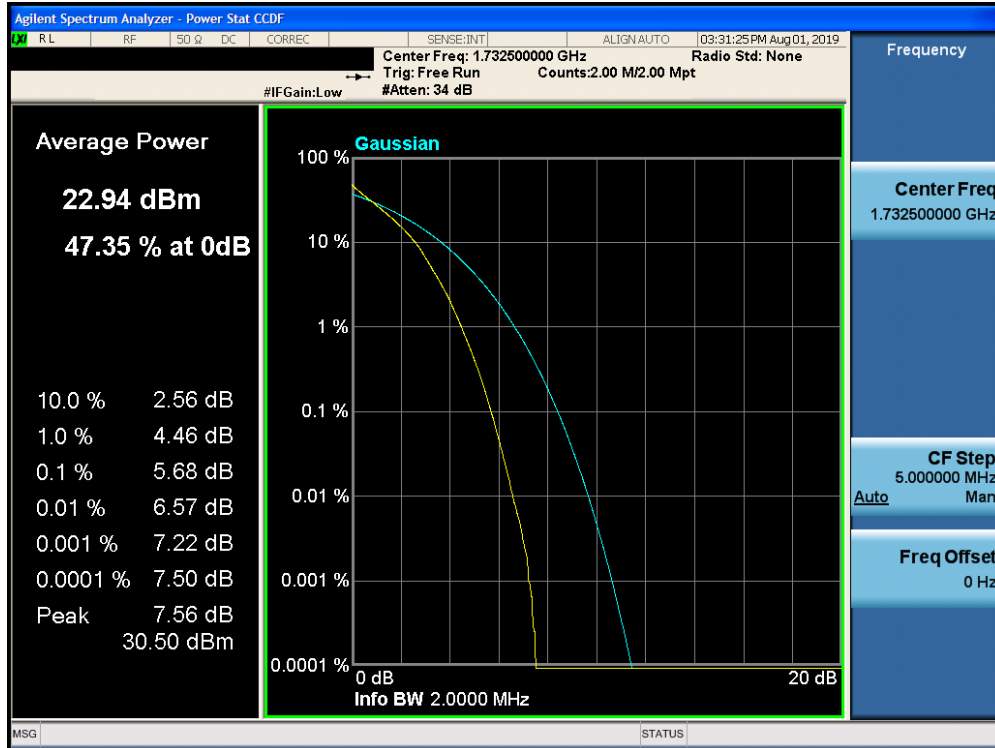
|                                         |                                                                                                                                   |                    |                                 |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019                                                                                            | EUT Type:<br>Watch | Page 163 of 238                 |

| Mode        | BW (MHz) | Modulation | Average Power [dBm] | PAR at 0.1% [dB] | Limit [dB] | Margin [dB] |
|-------------|----------|------------|---------------------|------------------|------------|-------------|
| LTE Band 4  | 1.4      | QPSK       | 22.94               | 5.68             | 13         | -7.32       |
| LTE Band 4  | 1.4      | 16QAM      | 22.20               | 6.38             | 13         | -6.62       |
| LTE Band 4  | 3        | QPSK       | 23.03               | 5.71             | 13         | -7.29       |
| LTE Band 4  | 3        | 16QAM      | 22.17               | 6.46             | 13         | -6.54       |
| LTE Band 4  | 5        | QPSK       | 23.05               | 5.84             | 13         | -7.16       |
| LTE Band 4  | 5        | 16QAM      | 22.20               | 6.40             | 13         | -6.60       |
| LTE Band 4  | 10       | QPSK       | 23.04               | 5.69             | 13         | -7.31       |
| LTE Band 4  | 10       | 16QAM      | 22.23               | 6.33             | 13         | -6.67       |
| LTE Band 4  | 15       | QPSK       | 23.19               | 5.97             | 13         | -7.03       |
| LTE Band 4  | 15       | 16QAM      | 22.11               | 6.29             | 13         | -6.71       |
| LTE Band 4  | 20       | QPSK       | 23.27               | 5.67             | 13         | -7.33       |
| LTE Band 4  | 20       | 16QAM      | 22.02               | 6.33             | 13         | -6.67       |
| LTE Band 66 | 1.4      | QPSK       | 22.81               | 5.77             | 13         | -7.23       |
| LTE Band 66 | 1.4      | 16QAM      | 22.02               | 6.39             | 13         | -6.61       |
| LTE Band 66 | 3        | QPSK       | 22.82               | 5.88             | 13         | -7.12       |
| LTE Band 66 | 3        | 16QAM      | 22.05               | 6.54             | 13         | -6.46       |
| LTE Band 66 | 5        | QPSK       | 22.92               | 5.88             | 13         | -7.12       |
| LTE Band 66 | 5        | 16QAM      | 22.03               | 6.46             | 13         | -6.54       |
| LTE Band 66 | 10       | QPSK       | 22.97               | 5.73             | 13         | -7.27       |
| LTE Band 66 | 10       | 16QAM      | 22.13               | 6.33             | 13         | -6.67       |
| LTE Band 66 | 15       | QPSK       | 22.87               | 6.07             | 13         | -6.93       |
| LTE Band 66 | 15       | 16QAM      | 22.09               | 6.32             | 13         | -6.68       |
| LTE Band 66 | 20       | QPSK       | 23.25               | 5.72             | 13         | -7.28       |
| LTE Band 66 | 20       | 16QAM      | 22.21               | 6.35             | 13         | -6.65       |
| LTE Band 2  | 1.4      | QPSK       | 22.75               | 5.75             | 13         | -7.25       |
| LTE Band 2  | 1.4      | 16QAM      | 21.98               | 6.42             | 13         | -6.58       |
| LTE Band 2  | 3        | QPSK       | 22.74               | 5.85             | 13         | -7.15       |
| LTE Band 2  | 3        | 16QAM      | 21.88               | 6.49             | 13         | -6.51       |
| LTE Band 2  | 5        | QPSK       | 22.75               | 5.76             | 13         | -7.24       |
| LTE Band 2  | 5        | 16QAM      | 21.90               | 6.47             | 13         | -6.53       |
| LTE Band 2  | 10       | QPSK       | 22.64               | 5.71             | 13         | -7.29       |
| LTE Band 2  | 10       | 16QAM      | 21.87               | 6.34             | 13         | -6.66       |
| LTE Band 2  | 15       | QPSK       | 23.52               | 3.41             | 13         | -9.59       |
| LTE Band 2  | 15       | 16QAM      | 21.87               | 6.31             | 13         | -6.69       |
| LTE Band 2  | 20       | QPSK       | 22.78               | 5.81             | 13         | -7.19       |
| LTE Band 2  | 20       | 16QAM      | 21.90               | 6.32             | 13         | -6.68       |
| LTE Band 25 | 1.4      | QPSK       | 22.83               | 5.72             | 13         | -7.28       |
| LTE Band 25 | 1.4      | 16QAM      | 21.95               | 6.46             | 13         | -6.54       |
| LTE Band 25 | 3        | QPSK       | 22.83               | 5.86             | 13         | -7.14       |
| LTE Band 25 | 3        | 16QAM      | 21.91               | 6.51             | 13         | -6.49       |
| LTE Band 25 | 5        | QPSK       | 22.83               | 5.89             | 13         | -7.11       |
| LTE Band 25 | 5        | 16QAM      | 21.99               | 6.49             | 13         | -6.51       |
| LTE Band 25 | 10       | QPSK       | 22.71               | 5.70             | 13         | -7.30       |
| LTE Band 25 | 10       | 16QAM      | 21.95               | 6.35             | 13         | -6.65       |
| LTE Band 25 | 15       | QPSK       | 22.92               | 6.03             | 13         | -6.97       |
| LTE Band 25 | 15       | 16QAM      | 21.97               | 6.30             | 13         | -6.70       |
| LTE Band 25 | 20       | QPSK       | 22.77               | 5.82             | 13         | -7.18       |
| LTE Band 25 | 20       | 16QAM      | 21.85               | 6.32             | 13         | -6.68       |

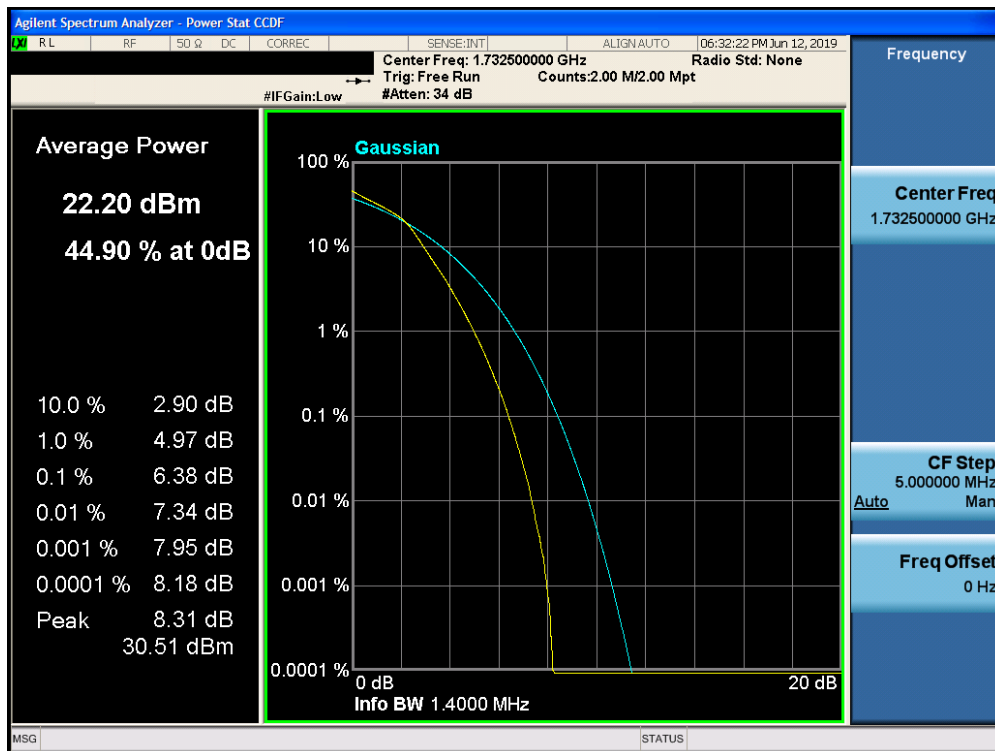
Table 7-6. PAR Results

|                                         |                                                                                                                                   |                    |                                 |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019                                                                                            | EUT Type:<br>Watch | Page 164 of 238                 |

## Band 4

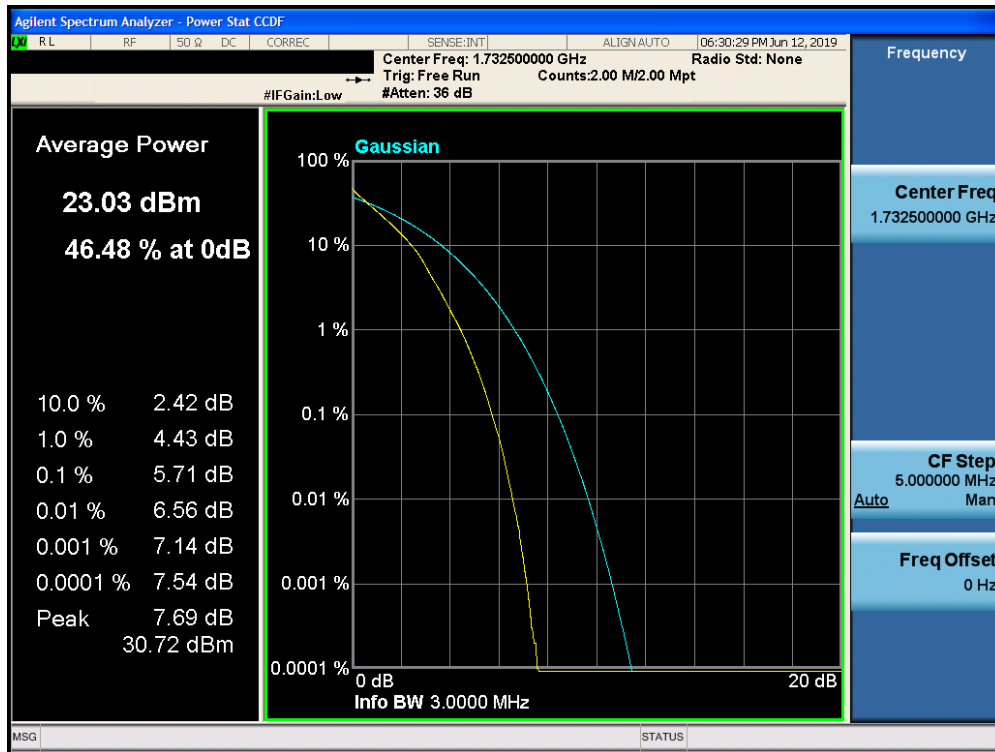


Plot 7-268. PAR Plot (Band 4 - 1.4MHz QPSK - Full RB Configuration)

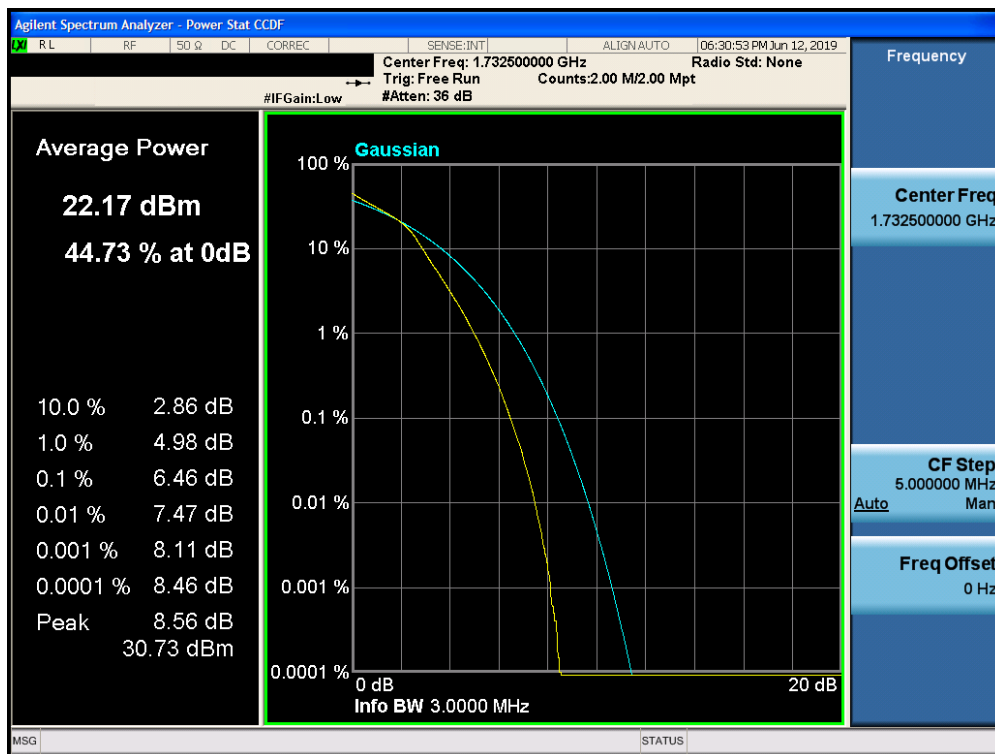


Plot 7-269. PAR Plot (Band 4 - 1.4MHz 16-QAM - Full RB Configuration)

|                                         |                                           |                    |                                 |
|-----------------------------------------|-------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       | <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019    | EUT Type:<br>Watch | Page 165 of 238                 |

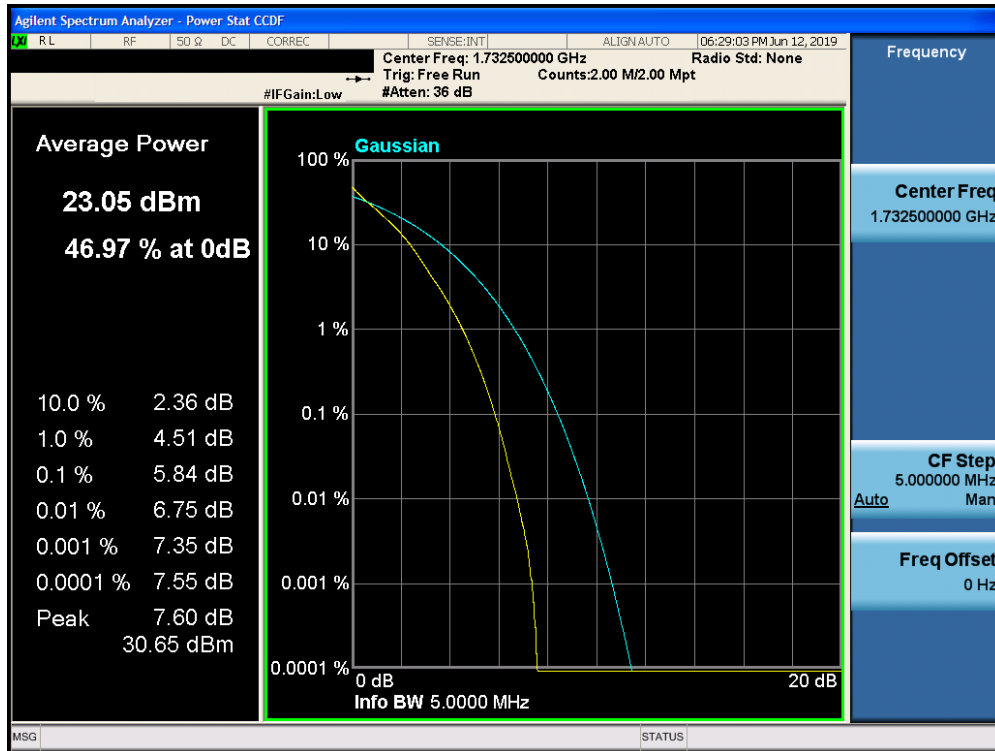


Plot 7-270. PAR Plot (Band 4 - 3.0MHz QPSK - Full RB Configuration)

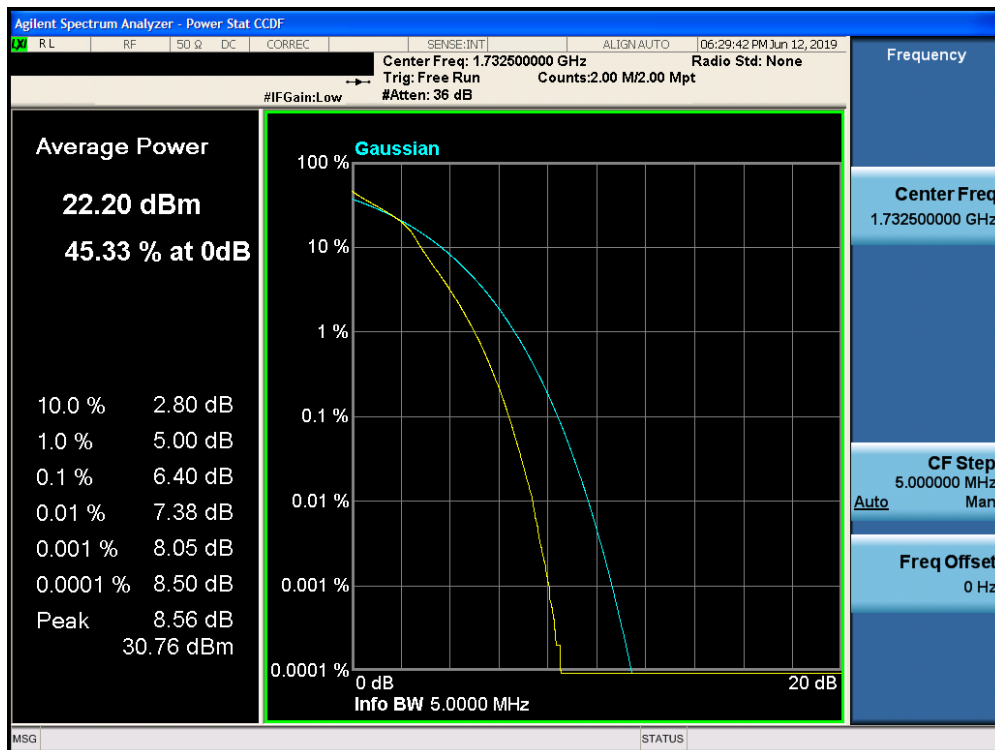


Plot 7-271. PAR Plot (Band 4 - 3.0MHz 16-QAM - Full RB Configuration)

|                                         |                                              |                    |                                 |
|-----------------------------------------|----------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       | <b>MEASUREMENT REPORT</b><br>(CERTIFICATION) |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019       | EUT Type:<br>Watch | Page 166 of 238                 |

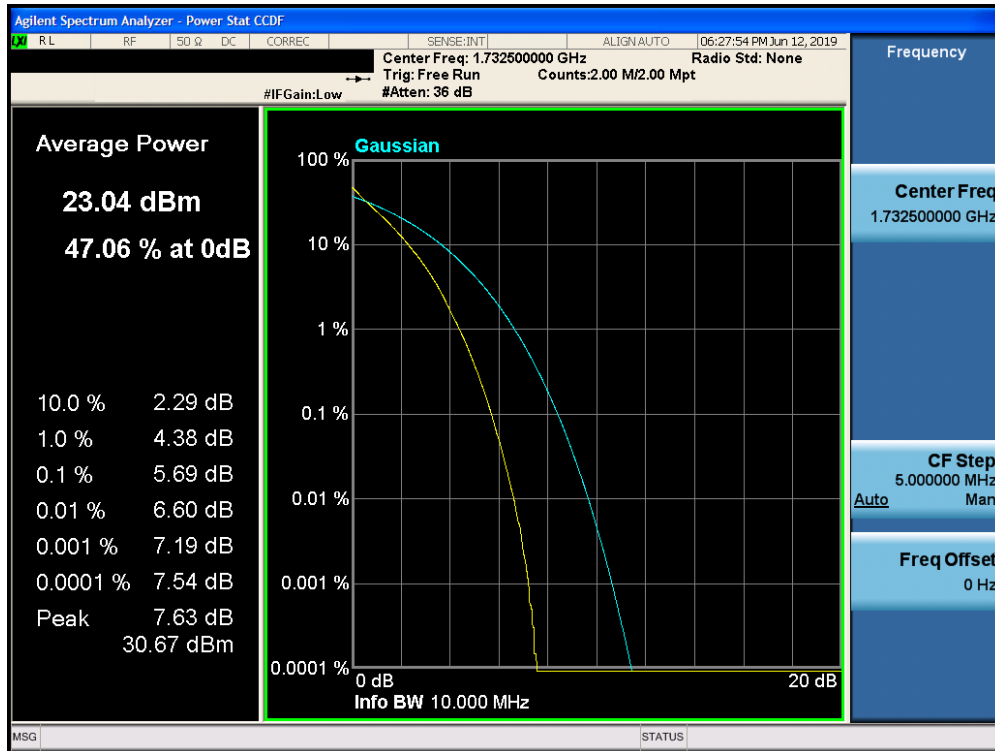


Plot 7-272. PAR Plot (Band 4 - 5.0MHz QPSK - Full RB Configuration)

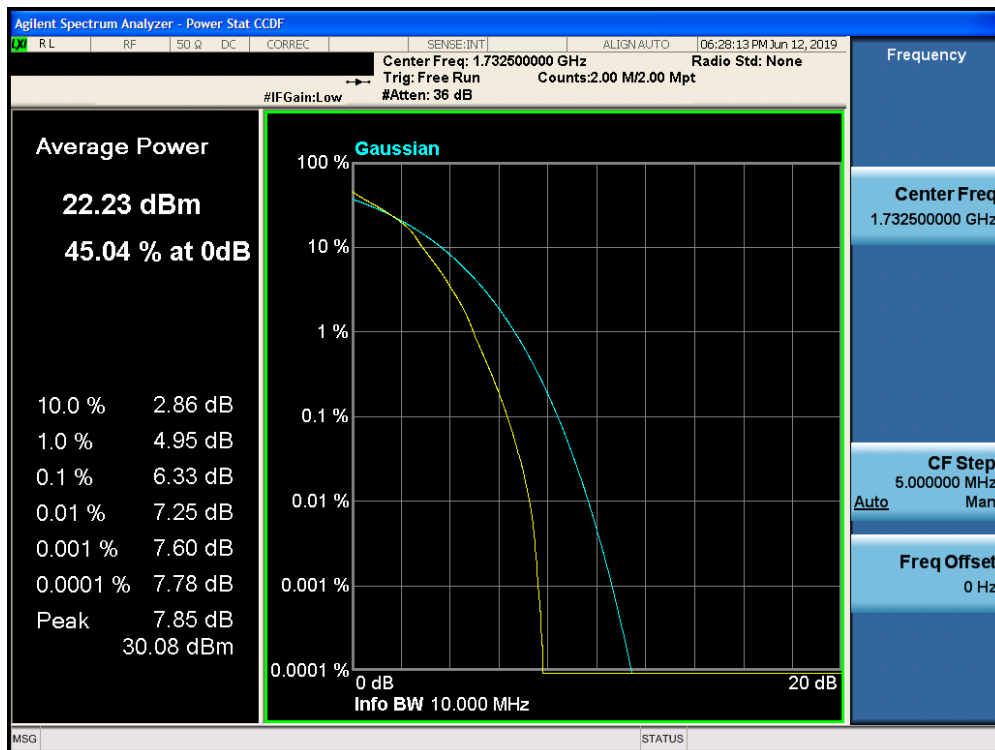


Plot 7-273. PAR Plot (Band 4 - 5.0MHz 16-QAM - Full RB Configuration)

|                                         |                                               |                    |                                 |
|-----------------------------------------|-----------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019        | EUT Type:<br>Watch | Page 167 of 238                 |

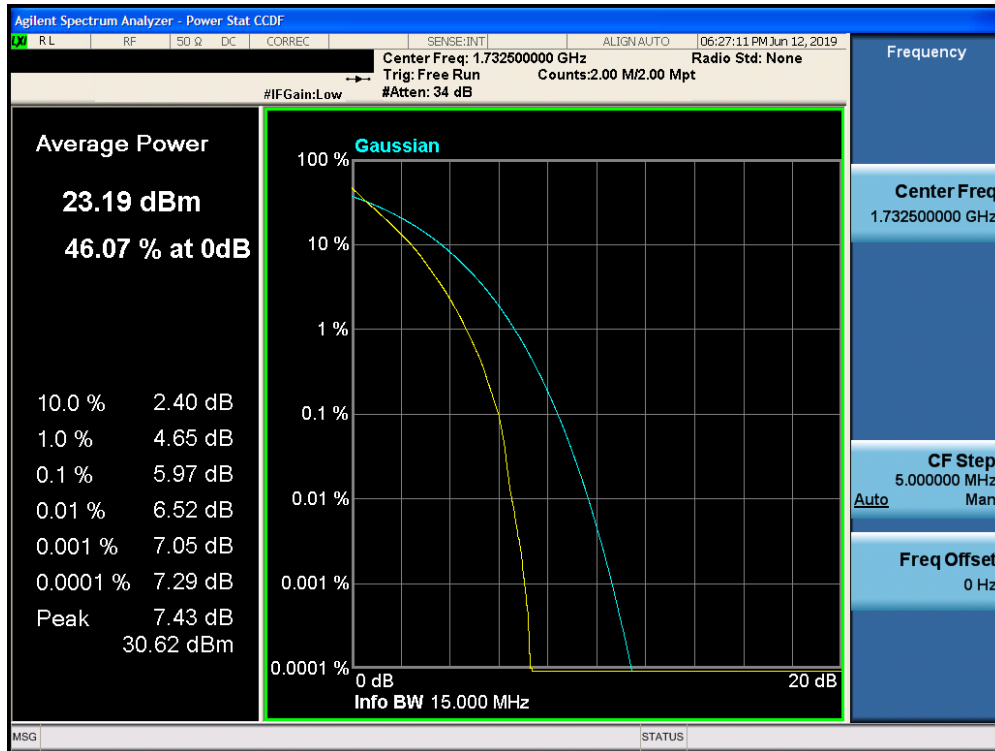


Plot 7-274. PAR Plot (Band 4 - 10.0MHz QPSK - Full RB Configuration)

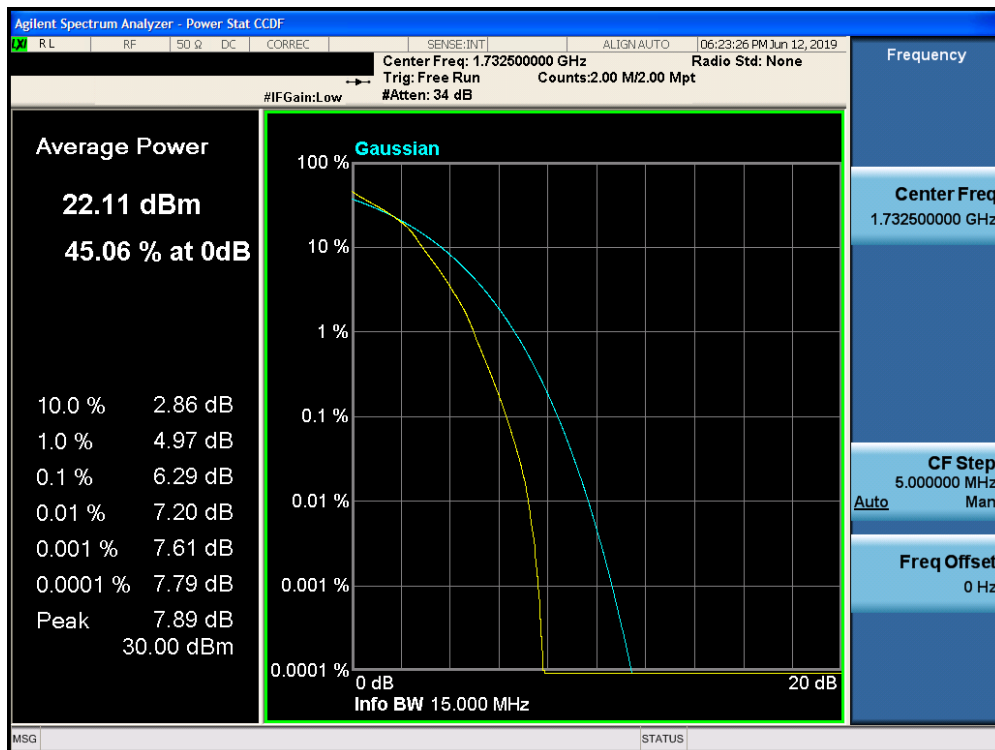


Plot 7-275. PAR Plot (Band 4 - 10.0MHz 16-QAM - Full RB Configuration)

|                                         |                                               |                    |                                 |
|-----------------------------------------|-----------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019        | EUT Type:<br>Watch | Page 168 of 238                 |

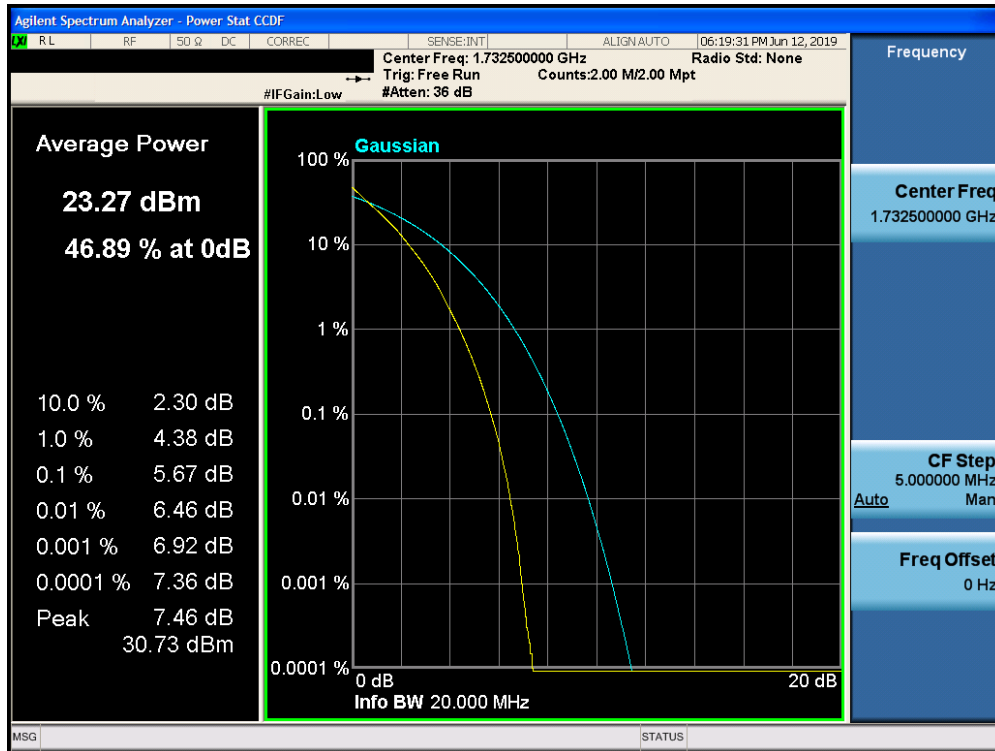


Plot 7-276. PAR Plot (Band 4 - 15.0MHz QPSK - Full RB Configuration)

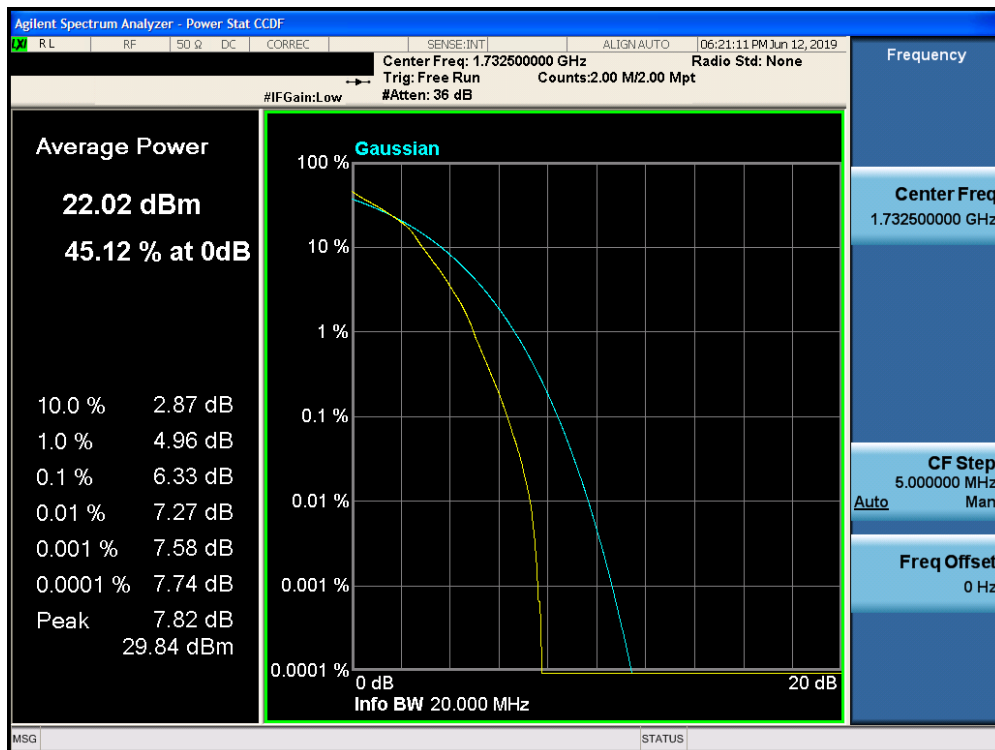


Plot 7-277. PAR Plot (Band 4 - 15.0MHz 16-QAM - Full RB Configuration)

|                                         |                                               |                    |                                 |
|-----------------------------------------|-----------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019        | EUT Type:<br>Watch | Page 169 of 238                 |



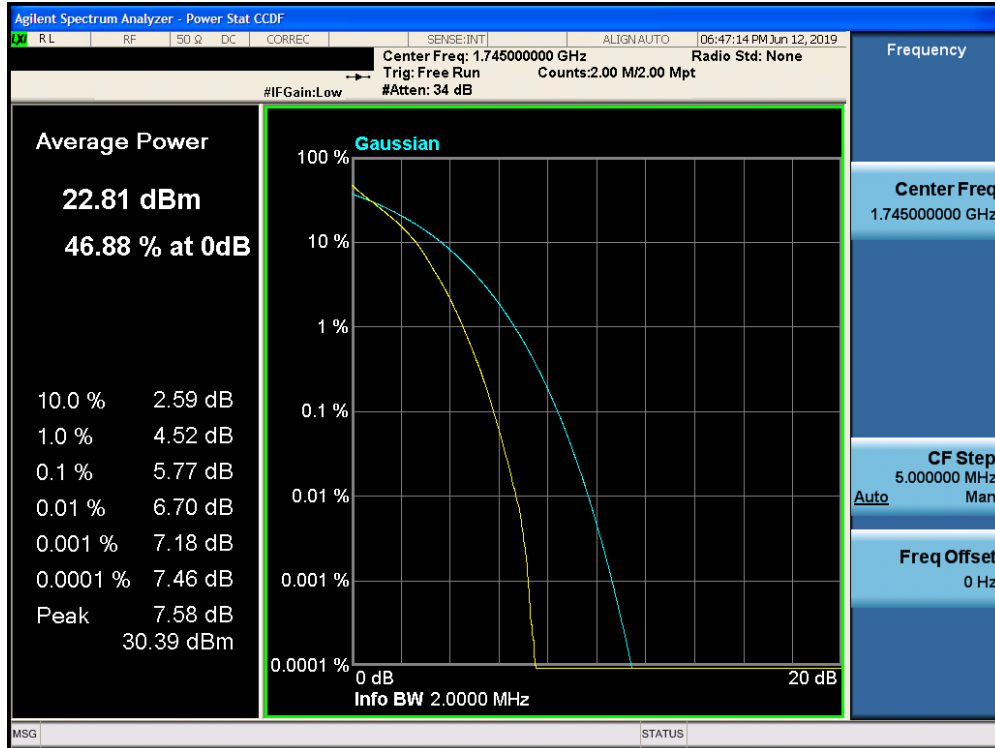
Plot 7-278. PAR Plot (Band 4 - 20.0MHz QPSK - Full RB Configuration)



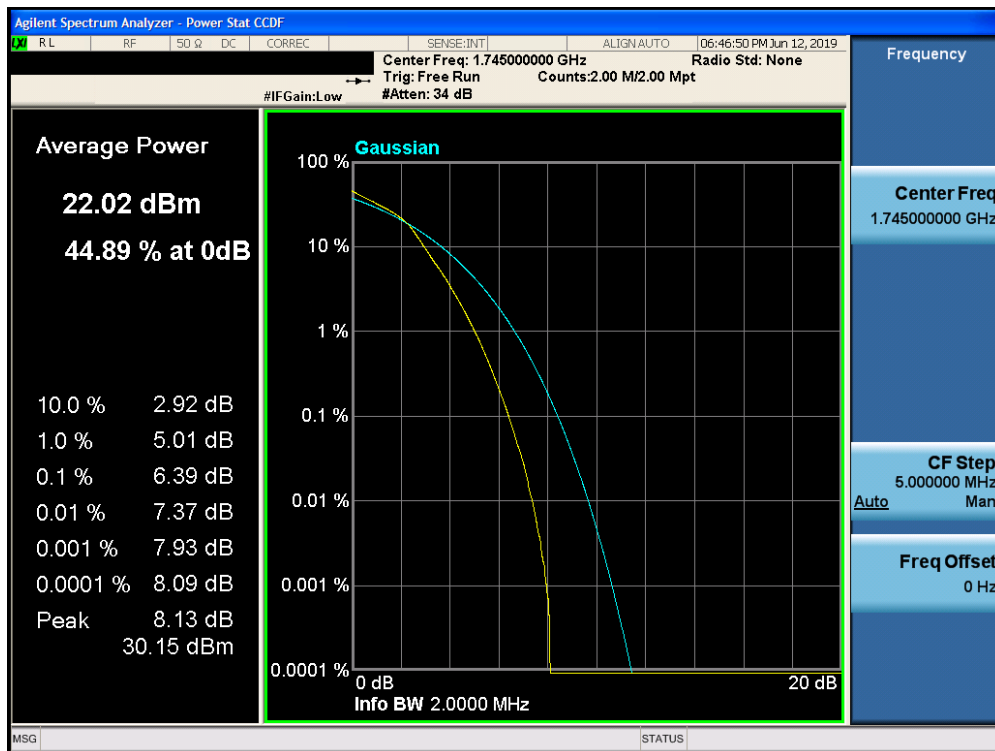
Plot 7-279. PAR Plot (Band 4 - 20.0MHz 16-QAM - Full RB Configuration)

|                                         |                                               |                    |                                 |
|-----------------------------------------|-----------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019        | EUT Type:<br>Watch | Page 170 of 238                 |

## Band 66

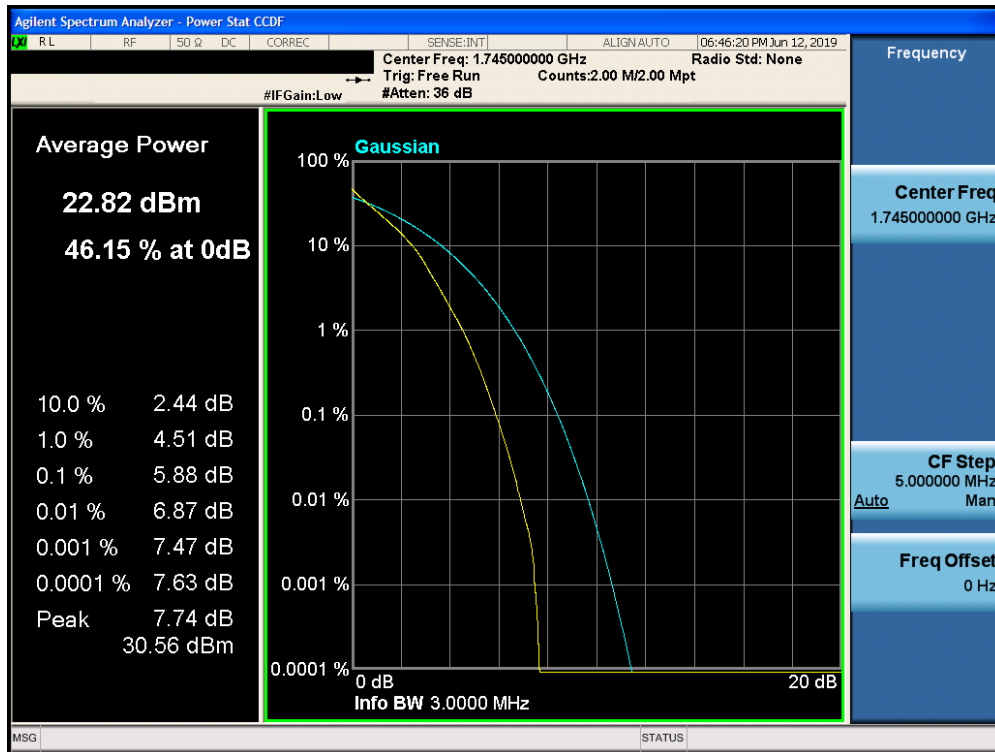


Plot 7-280. PAR Plot (Band 66 - 1.4MHz QPSK - Full RB Configuration)

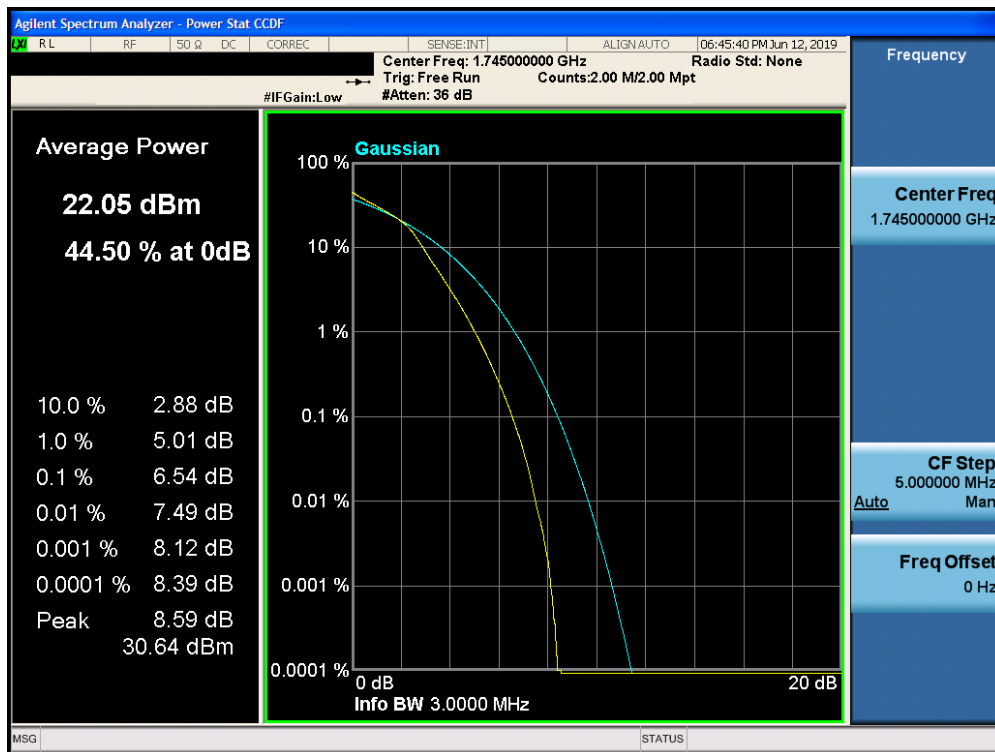


Plot 7-281. PAR Plot (Band 66 - 1.4MHz 16-QAM - Full RB Configuration)

|                                         |                                           |                    |                                 |
|-----------------------------------------|-------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       | <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019    | EUT Type:<br>Watch | Page 171 of 238                 |

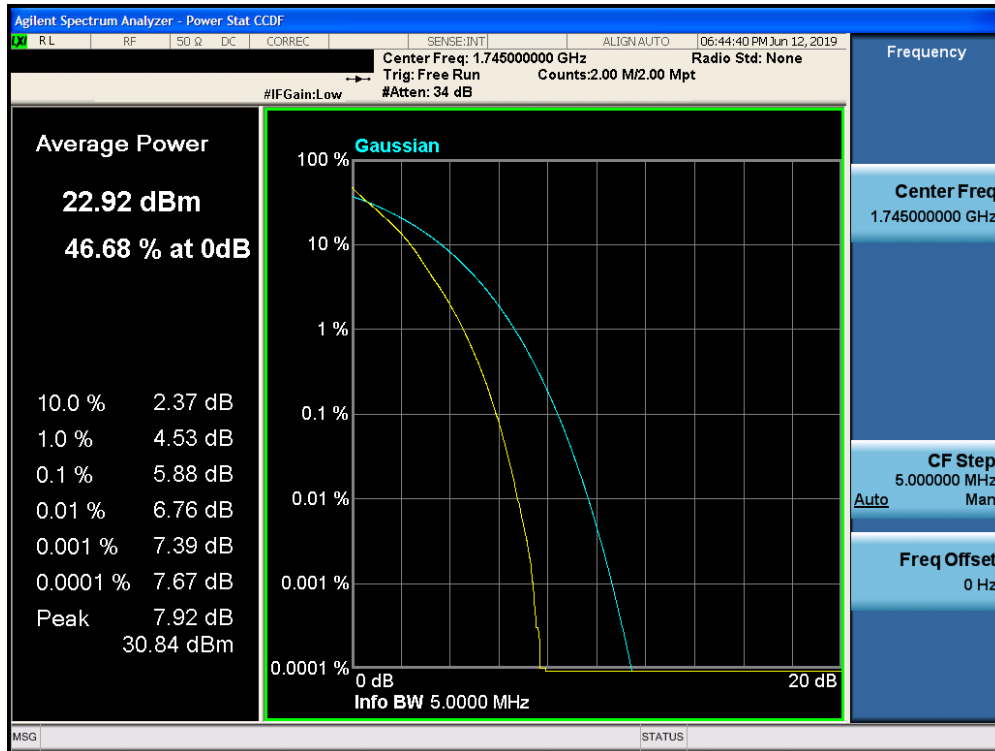


Plot 7-282. PAR Plot (Band 66 - 3.0MHz QPSK - Full RB Configuration)

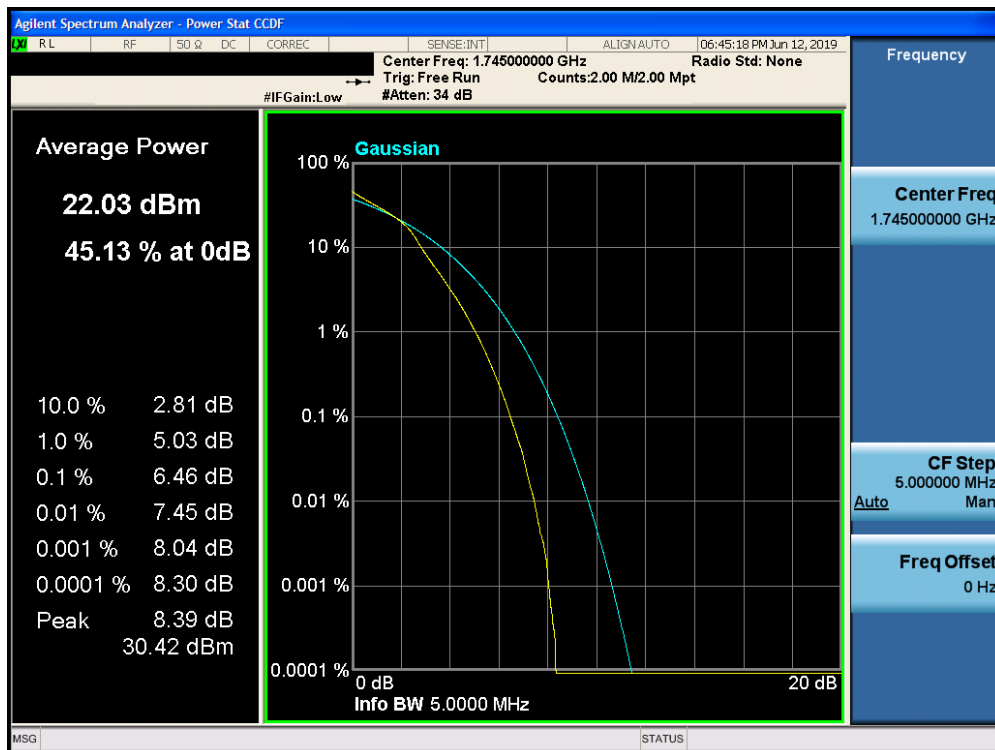


Plot 7-283. PAR Plot (Band 66 - 3.0MHz 16-QAM - Full RB Configuration)

|                                         |                                               |                                       |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCG-A2094                       | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019        | EUT Type:<br>Watch                    | Page 172 of 238                 |

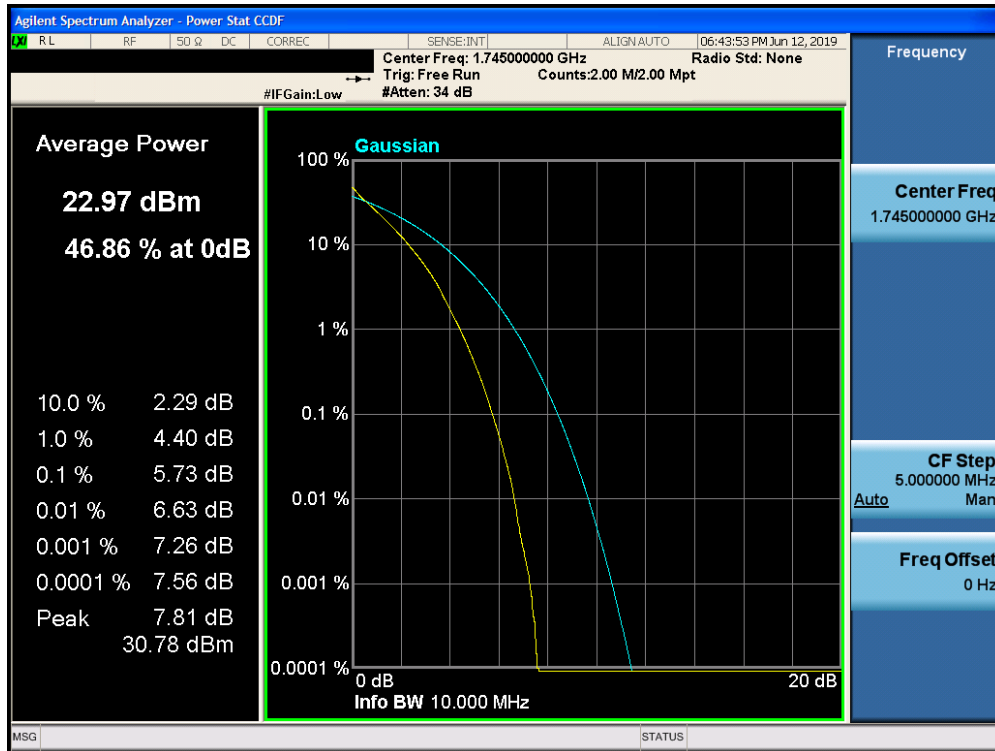


Plot 7-284. PAR Plot (Band 66 - 5.0MHz QPSK - Full RB Configuration)

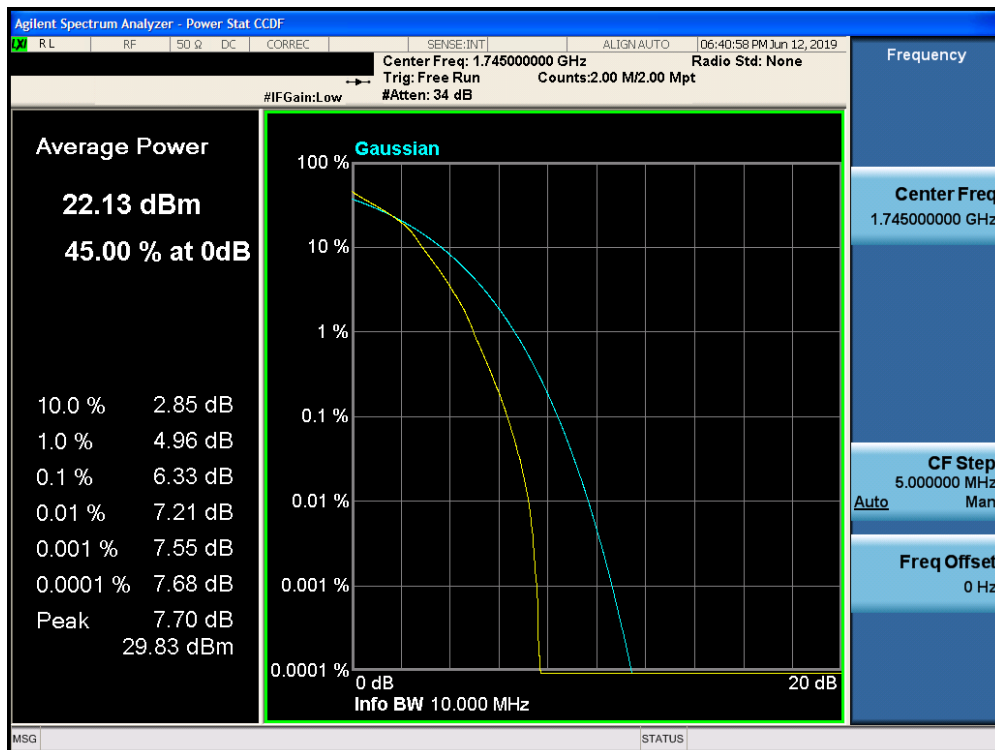


Plot 7-285. PAR Plot (Band 66 - 5.0MHz 16-QAM - Full RB Configuration)

|                                         |                                               |                    |                                 |
|-----------------------------------------|-----------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019        | EUT Type:<br>Watch | Page 173 of 238                 |

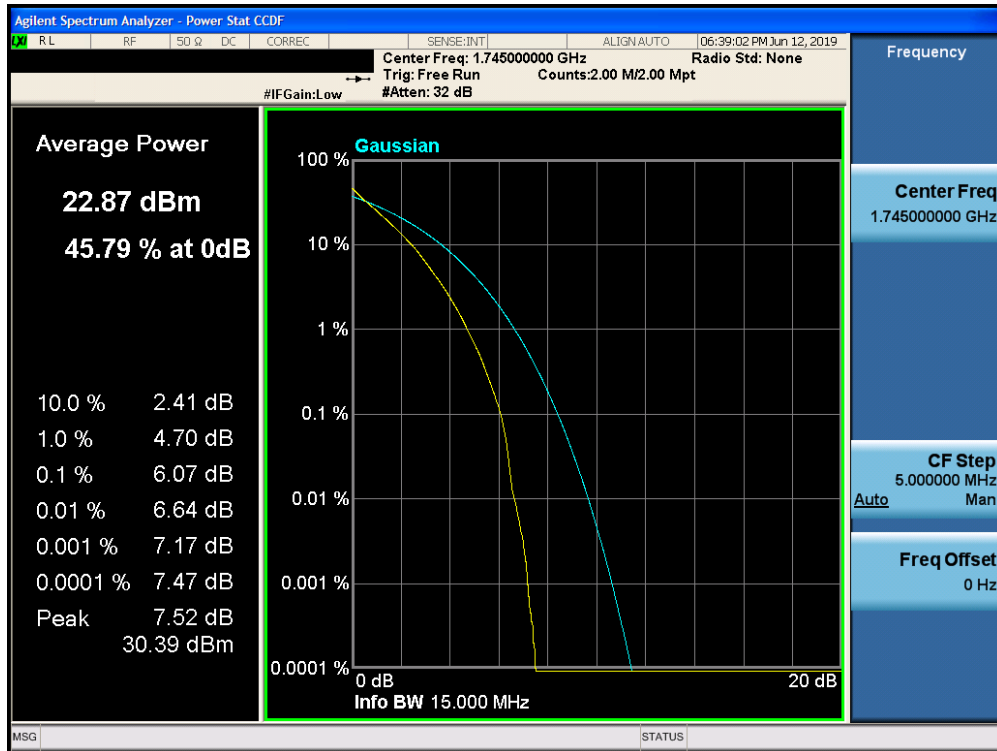


Plot 7-286. PAR Plot (Band 66 - 10.0MHz QPSK - Full RB Configuration)

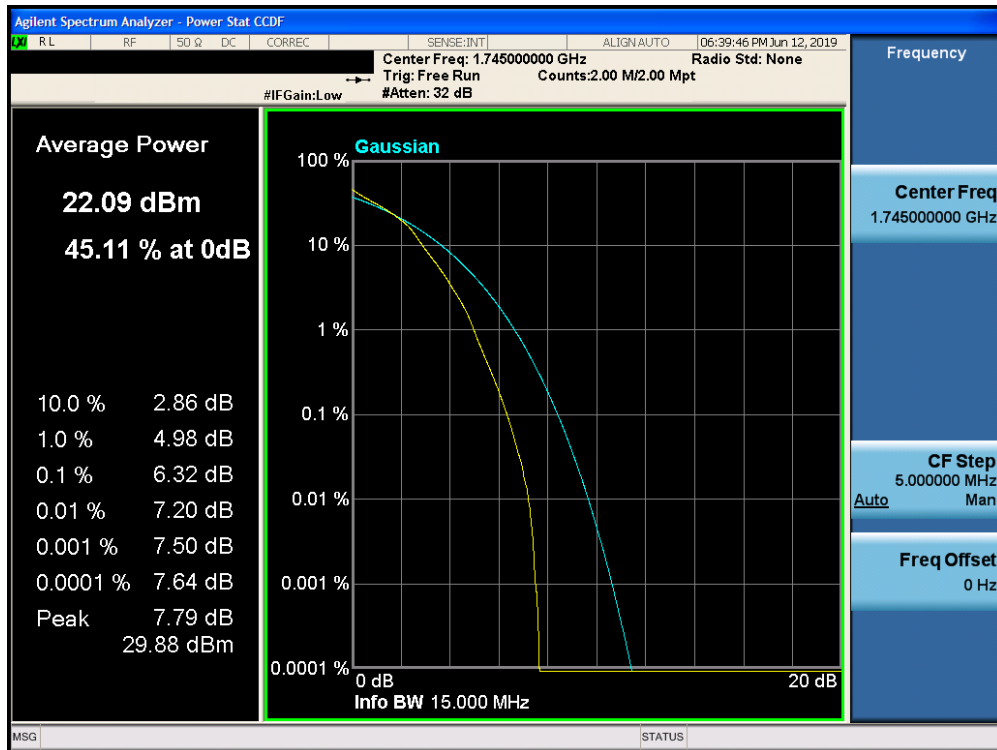


Plot 7-287. PAR Plot (Band 66 - 10.0MHz 16-QAM - Full RB Configuration)

|                                         |                                              |                    |                                 |
|-----------------------------------------|----------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       | <b>MEASUREMENT REPORT</b><br>(CERTIFICATION) |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019       | EUT Type:<br>Watch | Page 174 of 238                 |

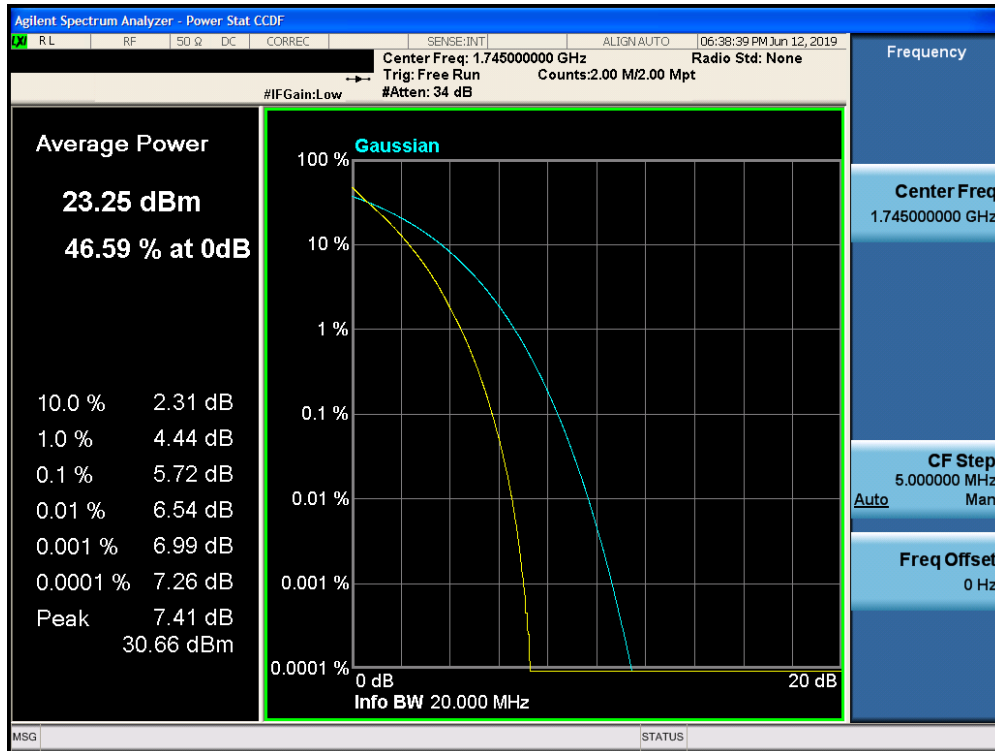


Plot 7-288. PAR Plot (Band 66 - 15.0MHz QPSK - Full RB Configuration)

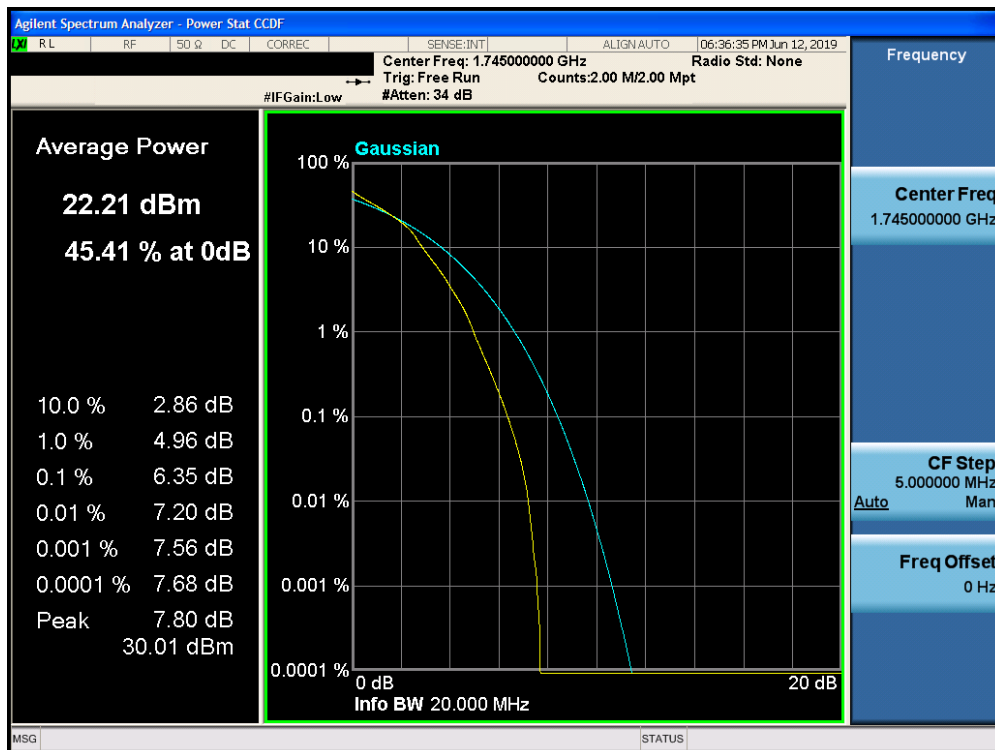


Plot 7-289. PAR Plot (Band 66 - 15.0MHz 16-QAM - Full RB Configuration)

|                                         |                                               |                    |                                 |
|-----------------------------------------|-----------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019        | EUT Type:<br>Watch | Page 175 of 238                 |



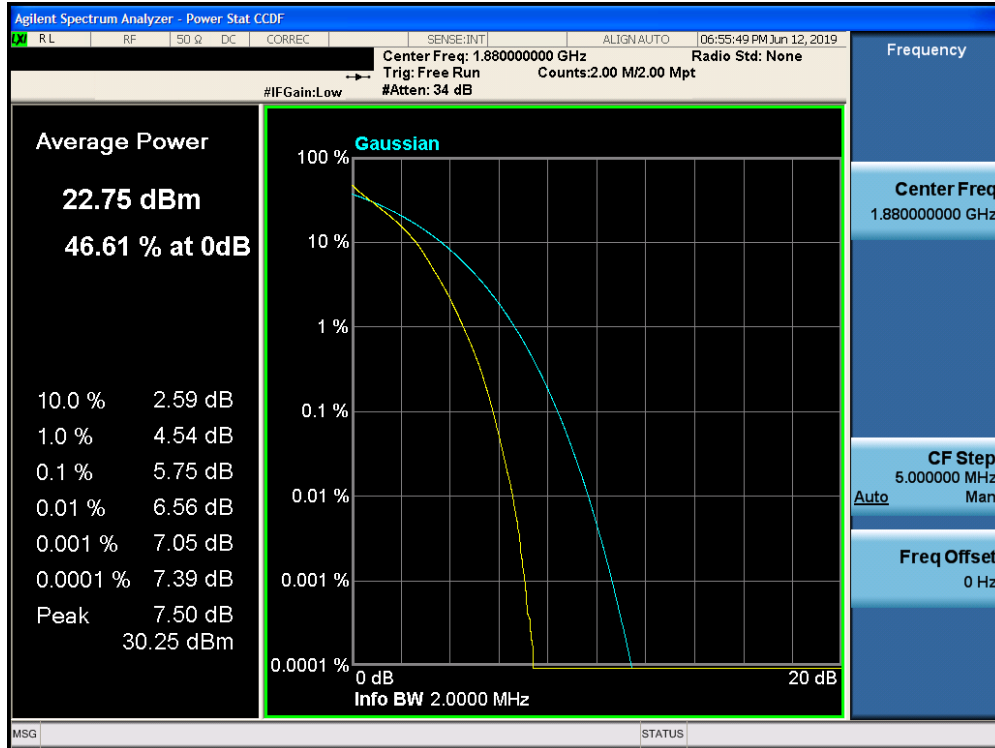
Plot 7-290. PAR Plot (Band 66 - 20.0MHz QPSK - Full RB Configuration)



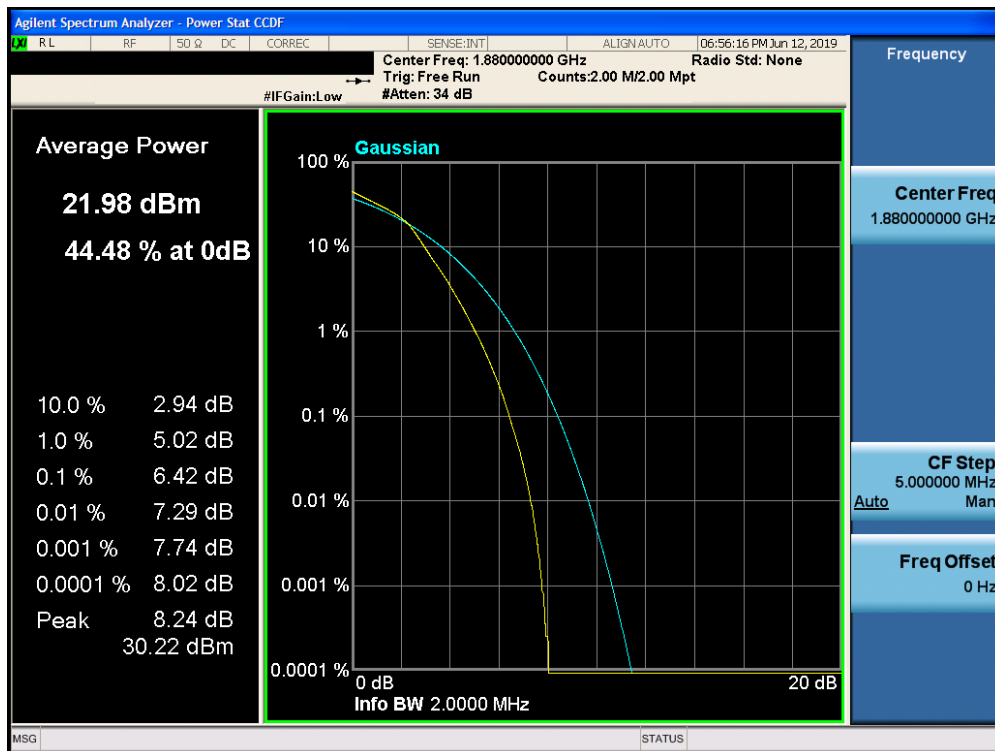
Plot 7-291. PAR Plot (Band 66 - 20.0MHz 16-QAM - Full RB Configuration)

|                                         |                                              |                    |                                 |
|-----------------------------------------|----------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       | <b>MEASUREMENT REPORT</b><br>(CERTIFICATION) |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019       | EUT Type:<br>Watch | Page 176 of 238                 |

## Band 2

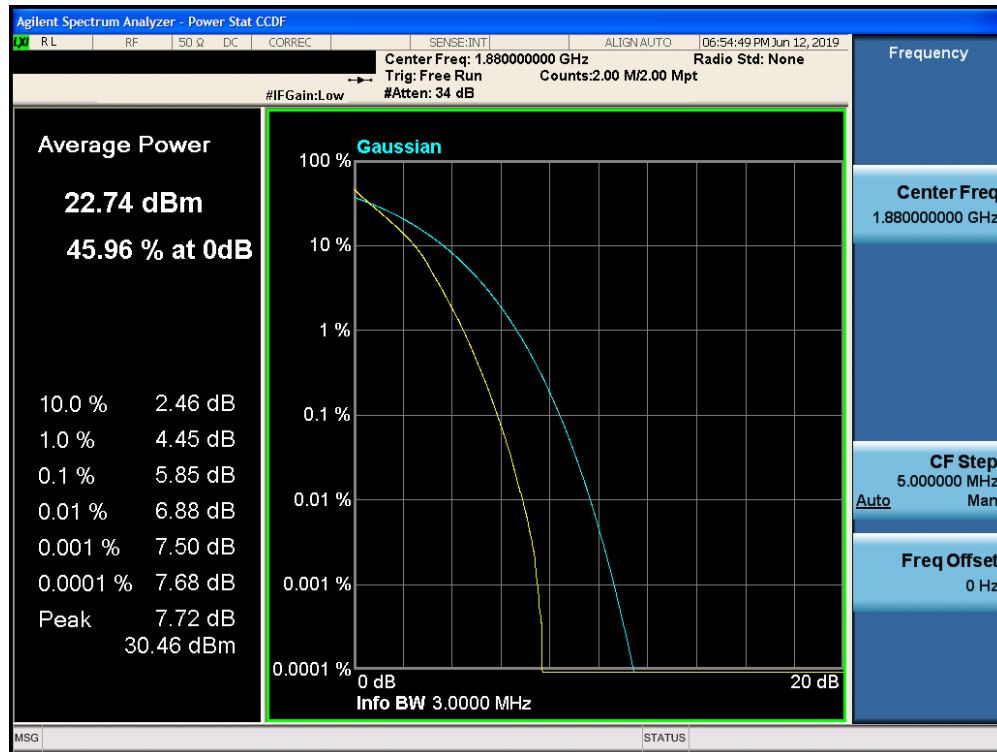


Plot 7-292. PAR Plot (Band 2 - 1.4MHz QPSK - Full RB Configuration)

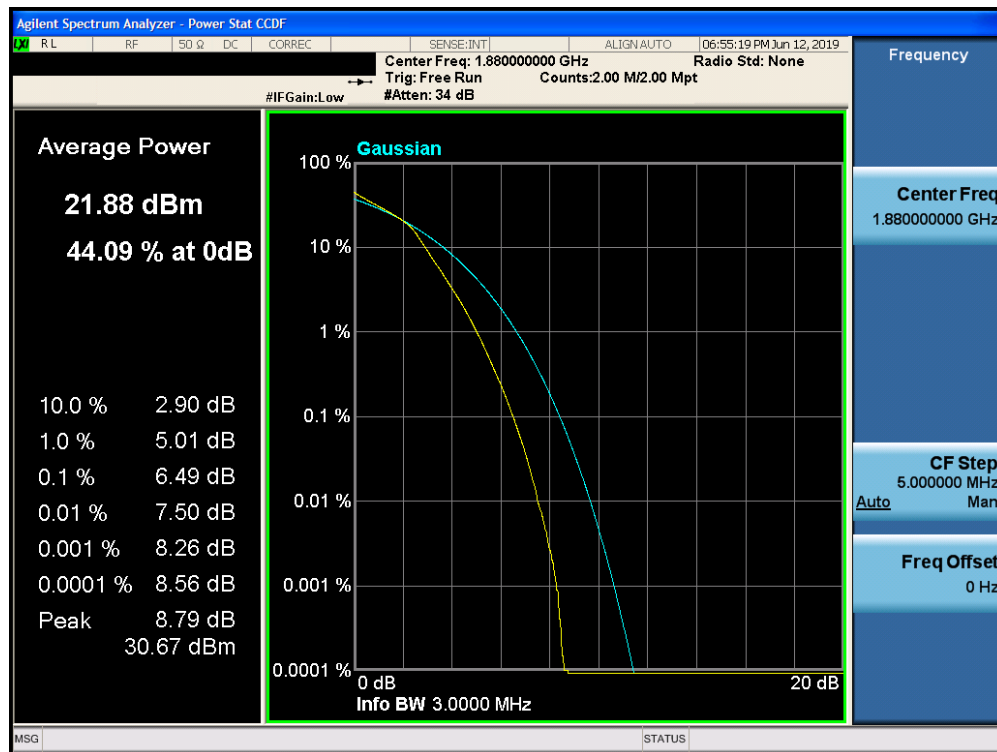


Plot 7-293. PAR Plot (Band 2 - 1.4MHz 16-QAM - Full RB Configuration)

|                                         |                                              |                    |                                 |
|-----------------------------------------|----------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       | <b>MEASUREMENT REPORT</b><br>(CERTIFICATION) |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019       | EUT Type:<br>Watch | Page 177 of 238                 |

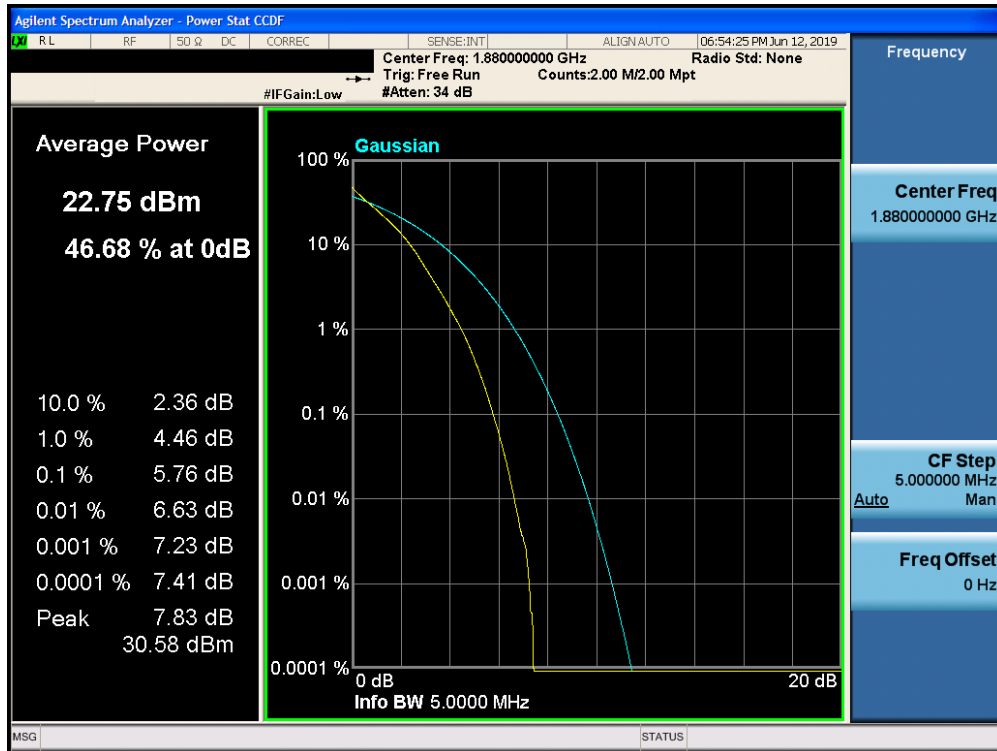


Plot 7-294. PAR Plot (Band 2 - 3.0MHz QPSK - Full RB Configuration)



Plot 7-295. PAR Plot (Band 2 - 3.0MHz 16-QAM - Full RB Configuration)

|                                         |                                              |                    |                                 |
|-----------------------------------------|----------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       | <b>MEASUREMENT REPORT</b><br>(CERTIFICATION) |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019       | EUT Type:<br>Watch | Page 178 of 238                 |

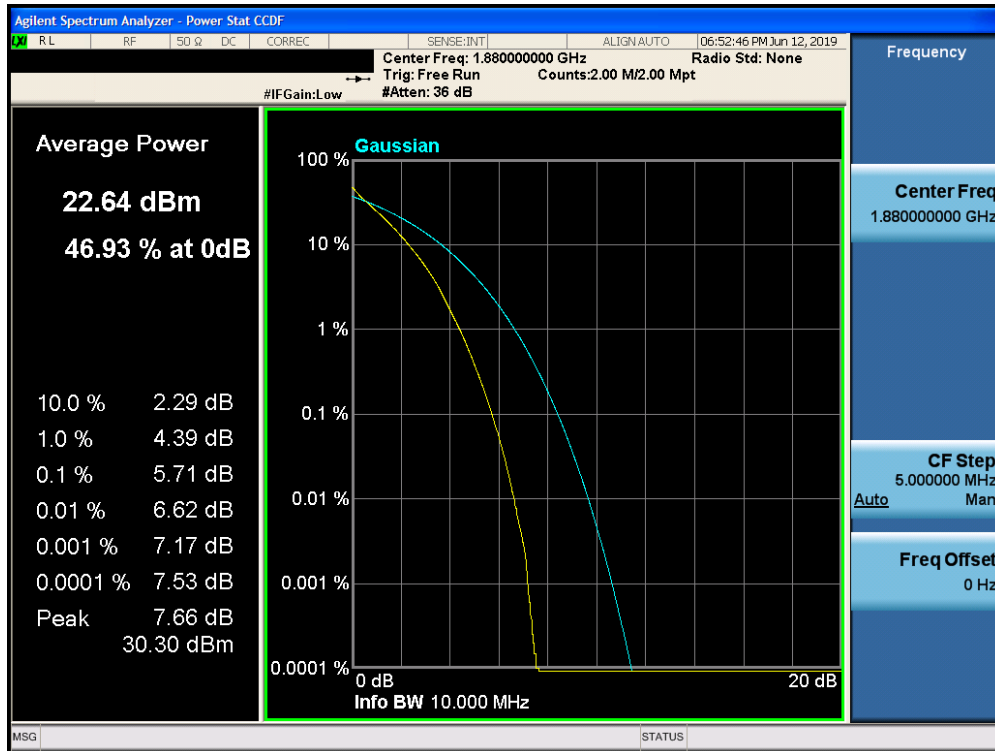


Plot 7-296. PAR Plot (Band 2 - 5.0MHz QPSK - Full RB Configuration)

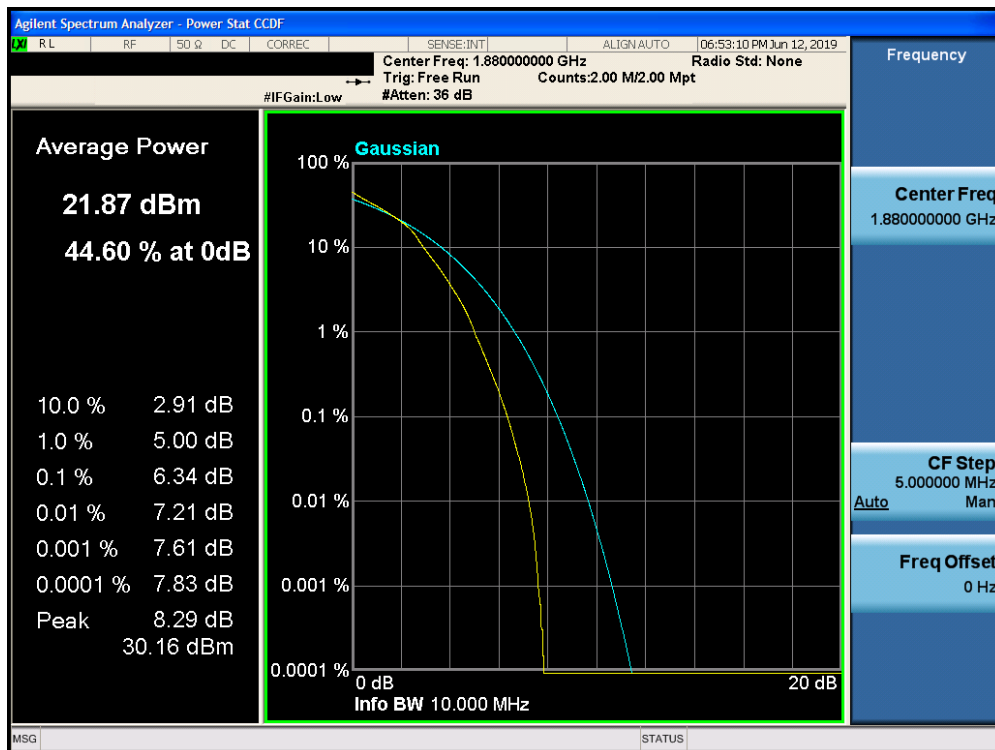


Plot 7-297. PAR Plot (Band 2 - 5.0MHz 16-QAM - Full RB Configuration)

|                                         |                                              |                    |                                 |
|-----------------------------------------|----------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       | <b>MEASUREMENT REPORT</b><br>(CERTIFICATION) |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019       | EUT Type:<br>Watch | Page 179 of 238                 |

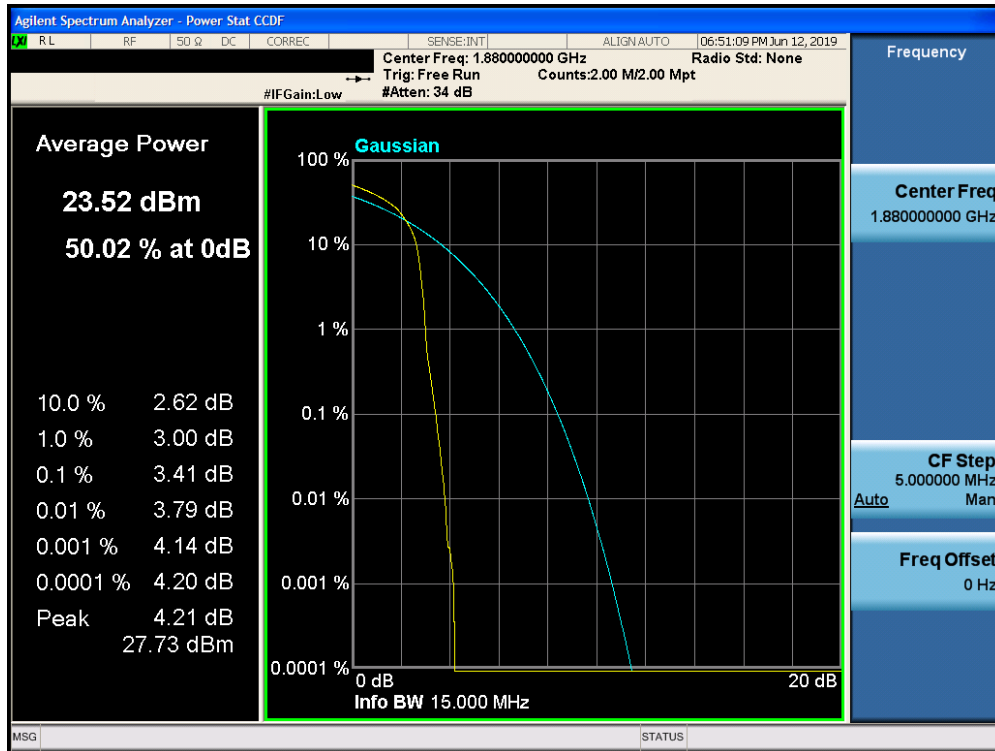


Plot 7-298. PAR Plot (Band 2 - 10.0MHz QPSK - Full RB Configuration)

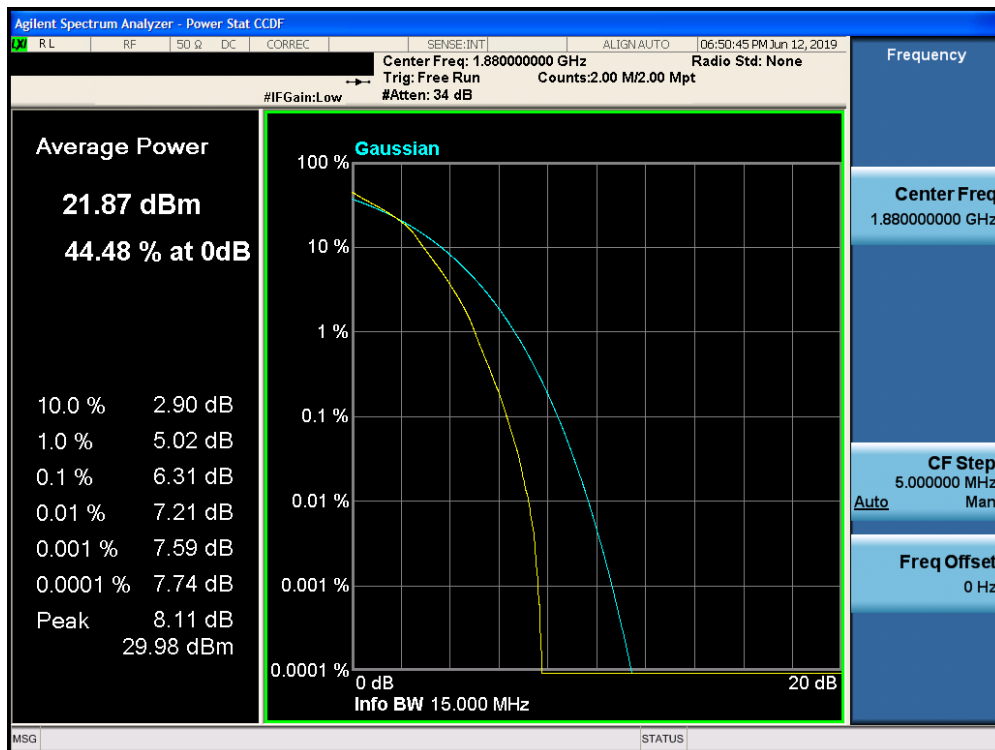


Plot 7-299. PAR Plot (Band 2 - 10.0MHz 16-QAM - Full RB Configuration)

|                                         |                                               |                    |                                 |
|-----------------------------------------|-----------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019        | EUT Type:<br>Watch | Page 180 of 238                 |

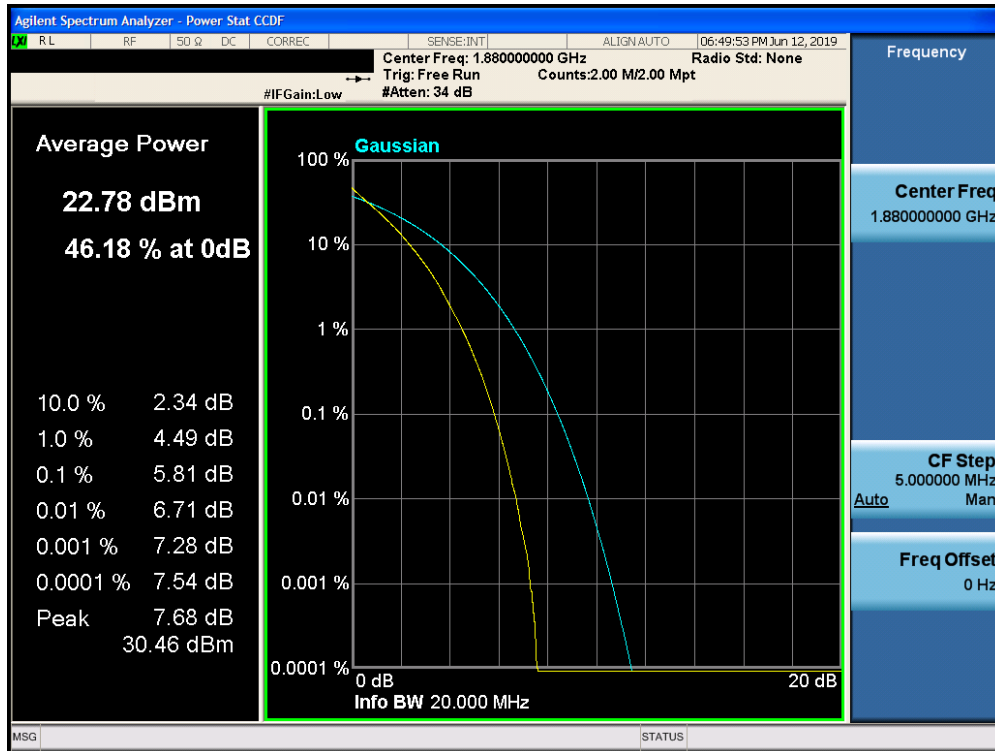


Plot 7-300. PAR Plot (Band 2 - 15.0MHz QPSK - Full RB Configuration)

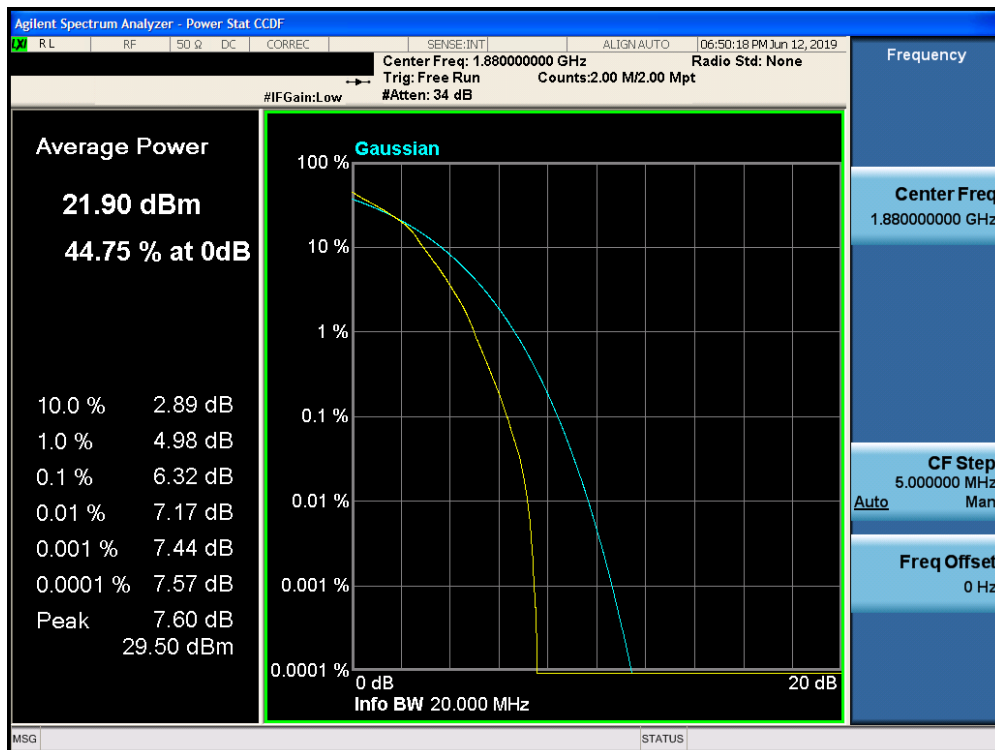


Plot 7-301. PAR Plot (Band 2 - 15.0MHz 16-QAM - Full RB Configuration)

|                                         |                                               |                    |                                 |
|-----------------------------------------|-----------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019        | EUT Type:<br>Watch | Page 181 of 238                 |



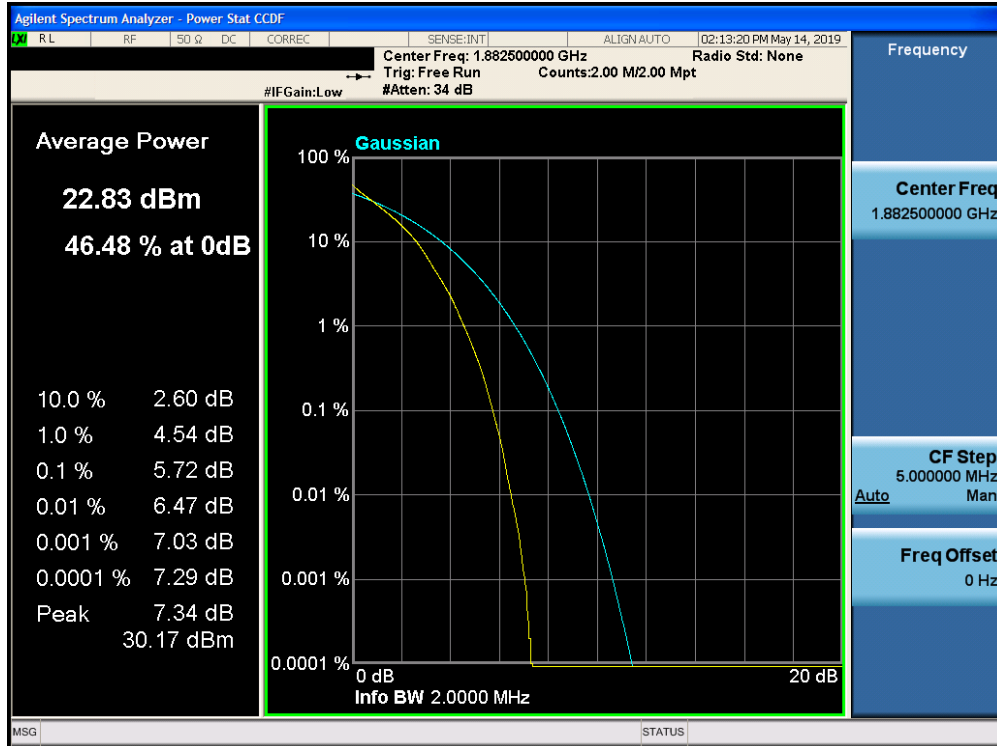
Plot 7-302. PAR Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)



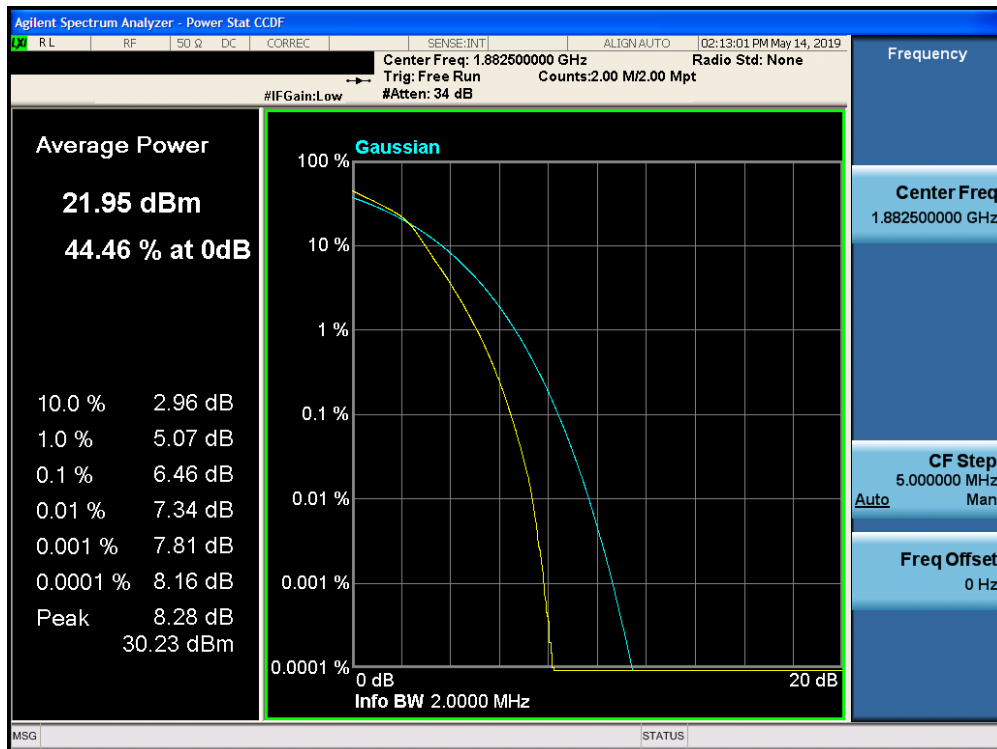
Plot 7-303. PAR Plot (Band 2 - 20.0MHz 16-QAM - Full RB Configuration)

|                                         |                                               |                    |                                 |
|-----------------------------------------|-----------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019        | EUT Type:<br>Watch | Page 182 of 238                 |

## Band 25

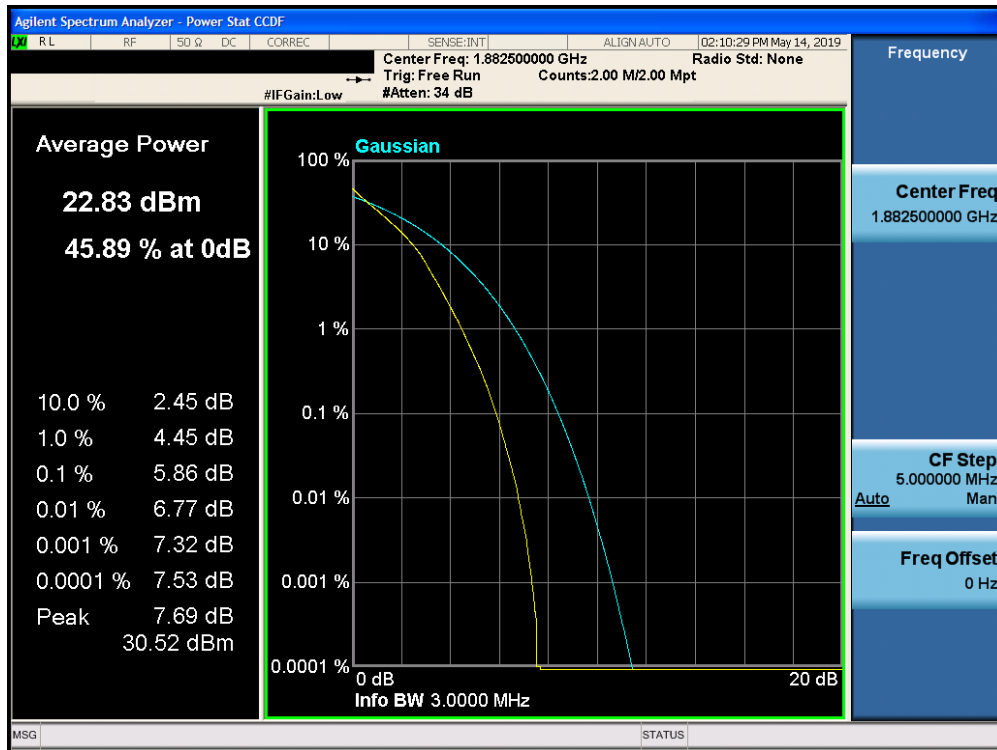


Plot 7-304. PAR Plot (Band 25 - 1.4MHz QPSK - Full RB Configuration)

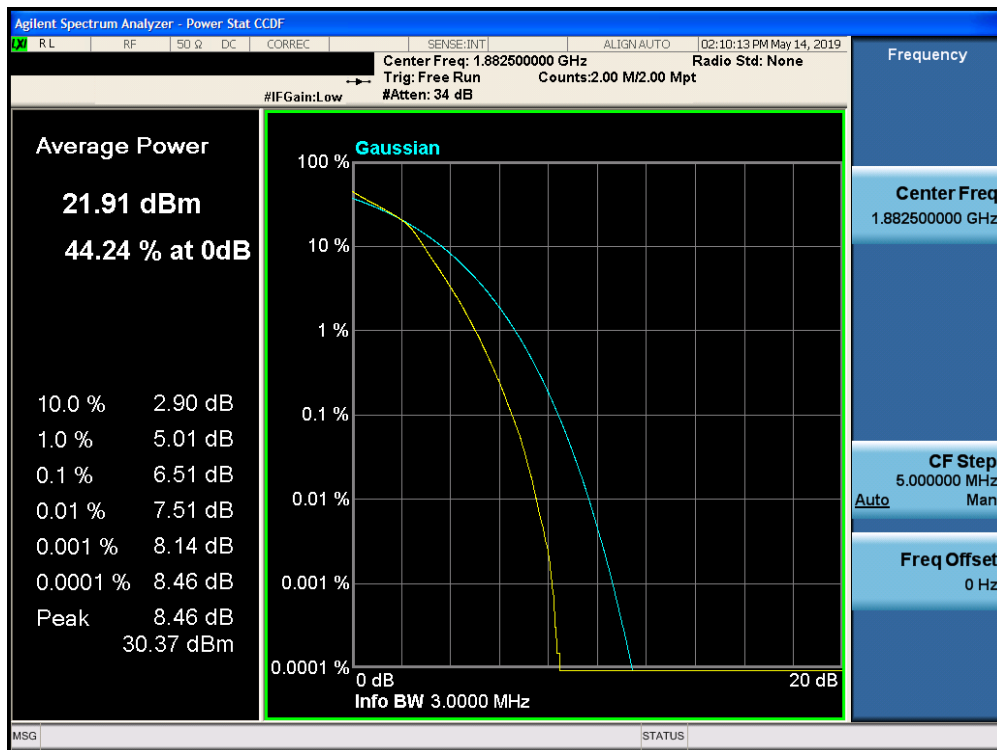


Plot 7-305. PAR Plot (Band 25 - 1.4MHz 16-QAM - Full RB Configuration)

|                                         |                                              |                    |                                 |
|-----------------------------------------|----------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       | <b>MEASUREMENT REPORT</b><br>(CERTIFICATION) |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019       | EUT Type:<br>Watch | Page 183 of 238                 |

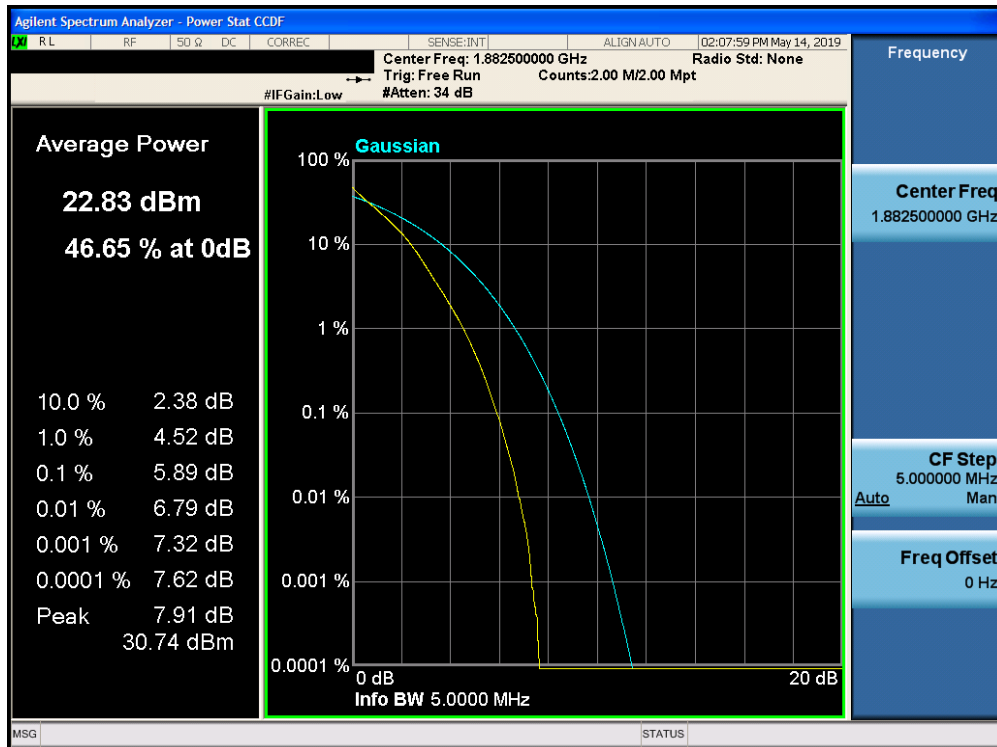


Plot 7-306. PAR Plot (Band 25 - 3.0MHz QPSK - Full RB Configuration)

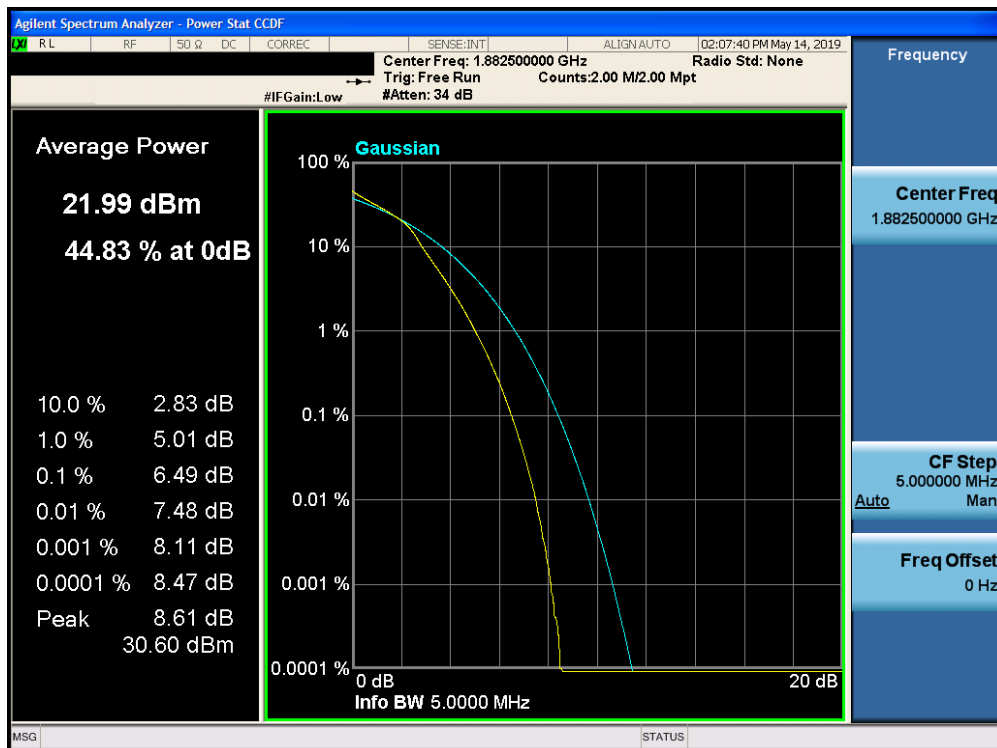


Plot 7-307. PAR Plot (Band 25 - 3.0MHz 16-QAM - Full RB Configuration)

|                                         |                                              |                    |                                 |
|-----------------------------------------|----------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       | <b>MEASUREMENT REPORT</b><br>(CERTIFICATION) |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019       | EUT Type:<br>Watch | Page 184 of 238                 |

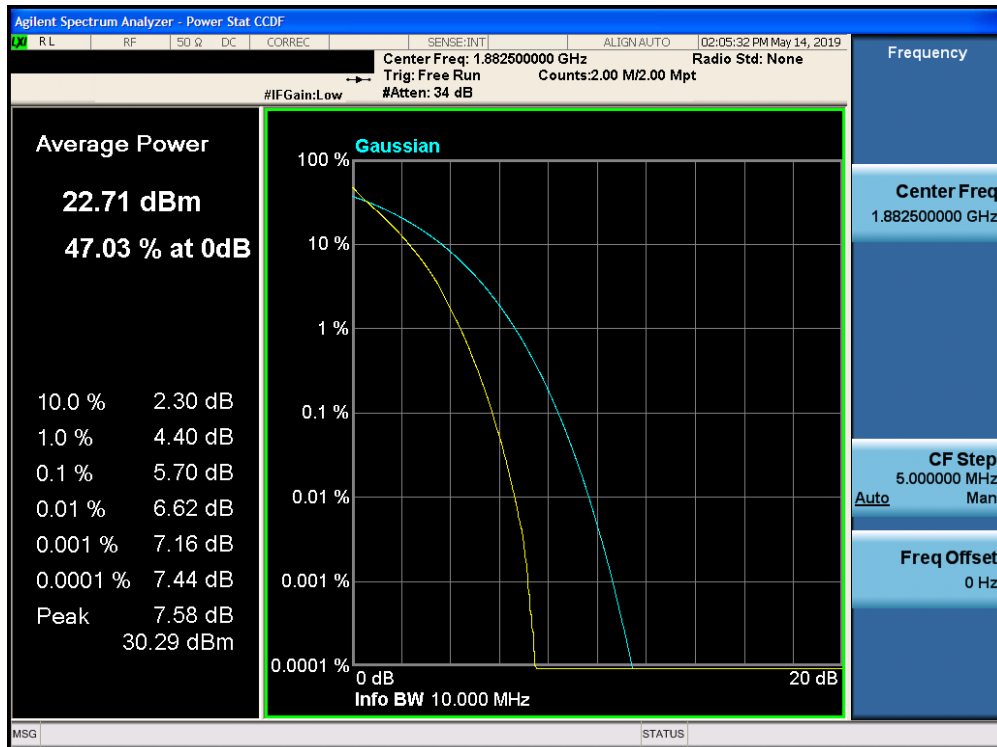


Plot 7-308. PAR Plot (Band 25 - 5.0MHz QPSK - Full RB Configuration)

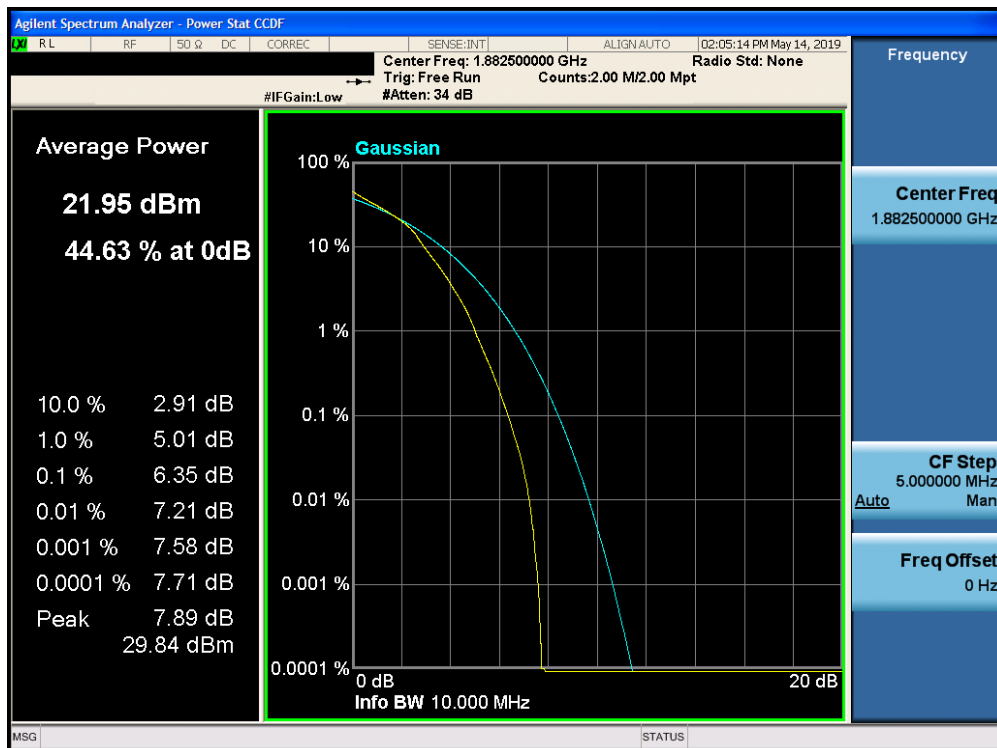


Plot 7-309. PAR Plot (Band 25 - 5.0MHz 16-QAM - Full RB Configuration)

|                                         |                                               |                    |                                 |
|-----------------------------------------|-----------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019        | EUT Type:<br>Watch | Page 185 of 238                 |

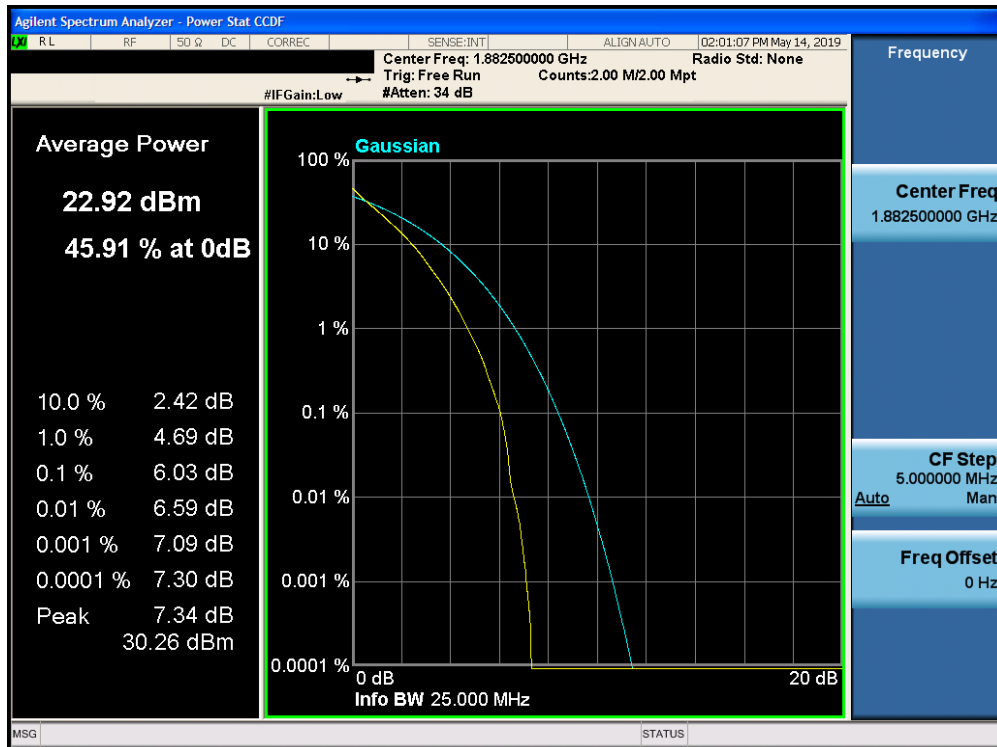


Plot 7-310. PAR Plot (Band 25 - 10.0MHz QPSK - Full RB Configuration)

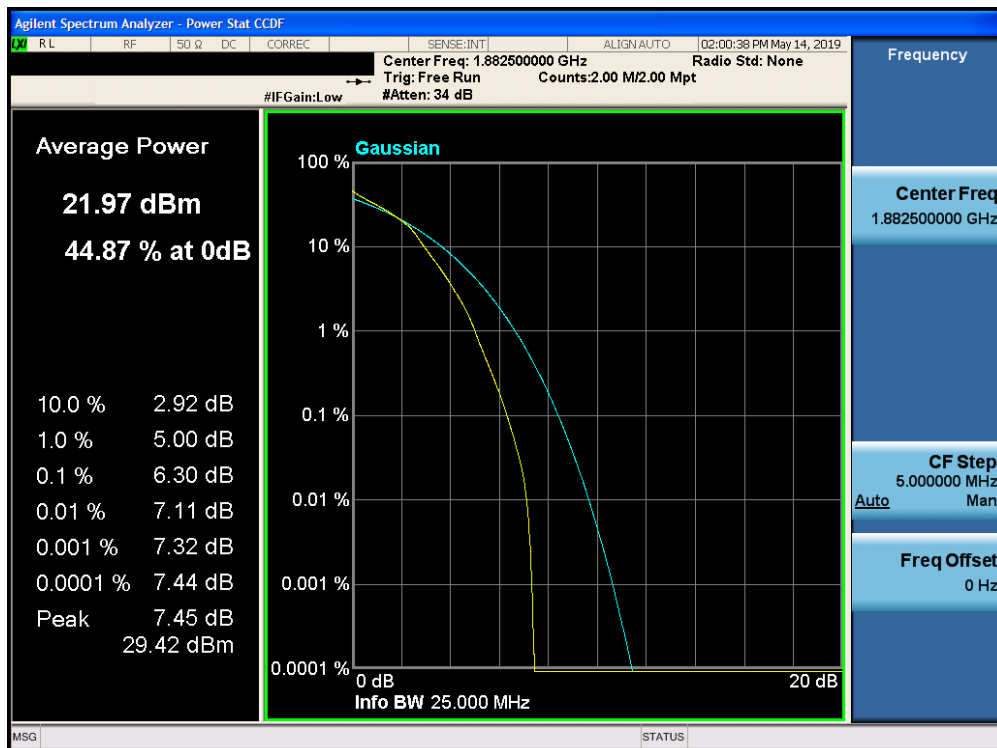


Plot 7-311. PAR Plot (Band 25 - 10.0MHz 16-QAM - Full RB Configuration)

|                                         |                                               |                    |                                 |
|-----------------------------------------|-----------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019        | EUT Type:<br>Watch | Page 186 of 238                 |

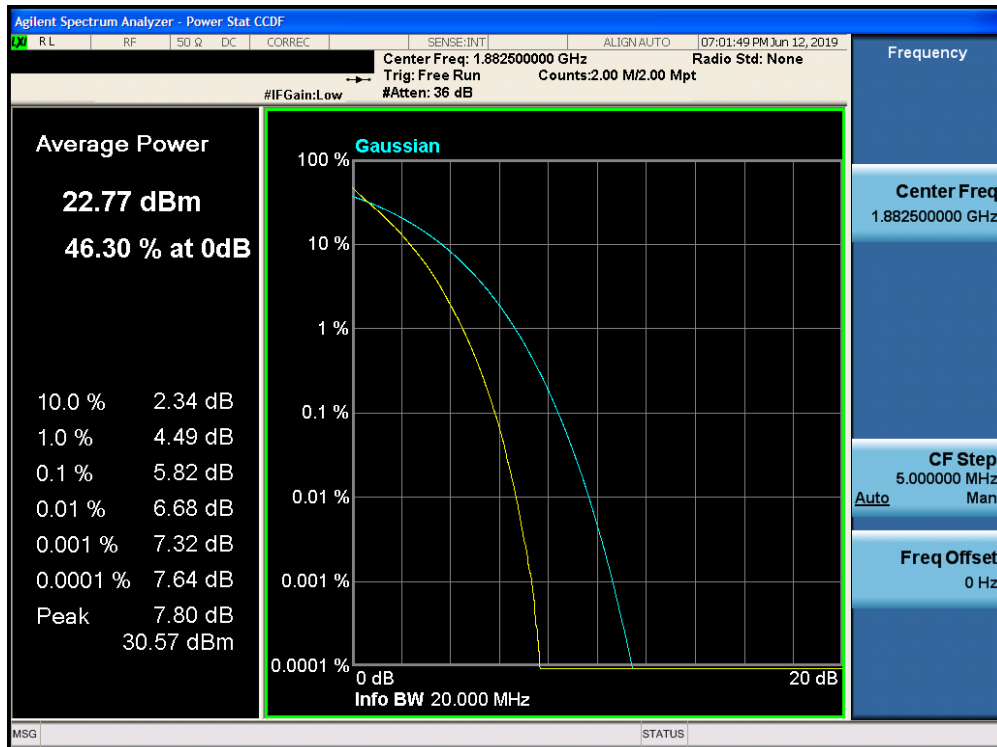


Plot 7-312. PAR Plot (Band 25 - 15.0MHz QPSK - Full RB Configuration)

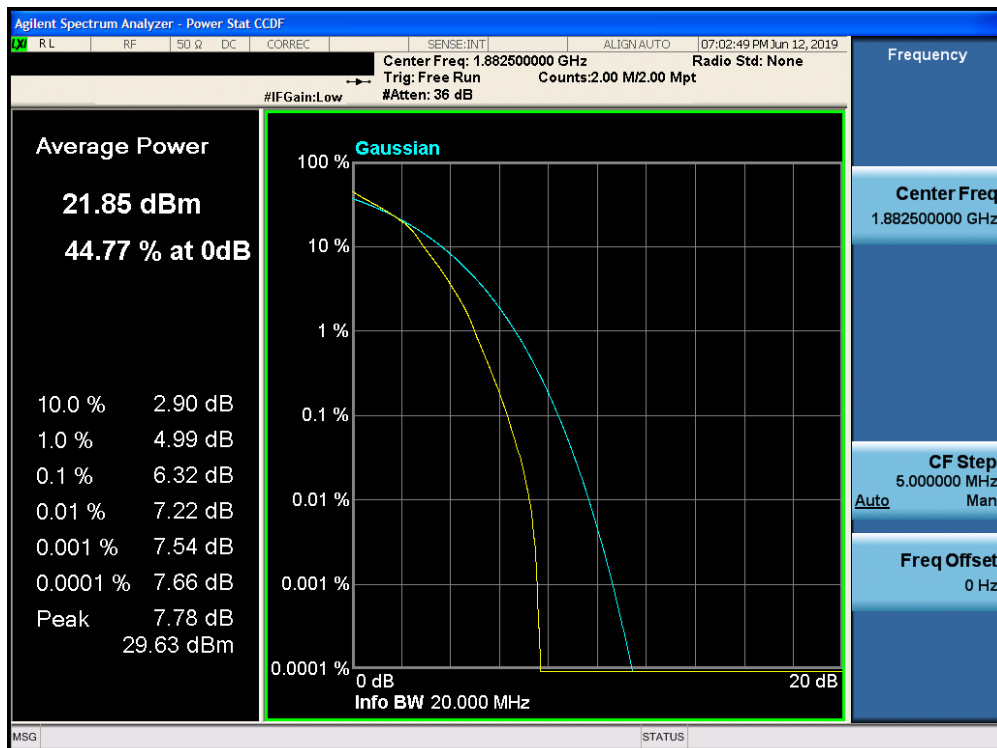


Plot 7-313. PAR Plot (Band 25 - 15.0MHz 16-QAM - Full RB Configuration)

|                                         |                                              |                    |                                 |
|-----------------------------------------|----------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       | <b>MEASUREMENT REPORT</b><br>(CERTIFICATION) |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019       | EUT Type:<br>Watch | Page 187 of 238                 |



Plot 7-314. PAR Plot (Band 25 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-315. PAR Plot (Band 25 - 20.0MHz 16-QAM - Full RB Configuration)

|                                         |                                               |                    |                                 |
|-----------------------------------------|-----------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019        | EUT Type:<br>Watch | Page 188 of 238                 |

## 7.6 Radiated Power (ERP/EIRP)

### Test Overview

Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) 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. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

### Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.2.1

### 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: BCG-A2094                       |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019                                                                                            | EUT Type:<br>Watch | Page 189 of 238                 |

## 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 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.

|                                                |                                                                                                                                   |                           |                                        |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------------------------|
| <b>FCC ID:</b> BCG-A2094                       |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                           | <b>Approved by:</b><br>Quality Manager |
| <b>Test Report S/N:</b><br>1C1905130008-03.BCG | <b>Test Dates:</b><br>05/01/2019 - 08/01/2019                                                                                     | <b>EUT Type:</b><br>Watch | Page 190 of 238                        |

| Frequency [MHz] | Channel Bandwidth [MHz] | Mod.   | RB Size/Offset | Conducted Power [dBm] | Ant. Gain [dBi] | ERP [dBm]    | ERP [mW]     | ERP Limit [dBm] | Margin [dB] | EIRP [dBm]   | EIRP [mW]    | EIRP Limit [dBm] | Margin [dB] |
|-----------------|-------------------------|--------|----------------|-----------------------|-----------------|--------------|--------------|-----------------|-------------|--------------|--------------|------------------|-------------|
| 699.70          | 1.4                     | QPSK   | 1 / 0          | 24.96                 | -28.00          | -5.19        | 0.303        | 34.77           | -39.96      | -3.04        | 0.497        | 36.99            | -40.03      |
| 707.50          | 1.4                     | QPSK   | 1 / 0          | 25.00                 | -28.00          | <b>-5.15</b> | <b>0.305</b> | 34.77           | -39.92      | <b>-3.00</b> | <b>0.501</b> | 36.99            | -39.99      |
| 715.30          | 1.4                     | QPSK   | 1 / 5          | 24.91                 | -28.00          | -5.24        | 0.299        | 34.77           | -40.01      | -3.09        | 0.491        | 36.99            | -40.08      |
| 707.50          | 1.4                     | 16-QAM | 1 / 0          | 24.45                 | -28.00          | <b>-5.70</b> | 0.269        | 34.77           | -40.47      | <b>-3.55</b> | 0.442        | 36.99            | -40.54      |
| 700.50          | 3                       | QPSK   | 1 / 0          | 24.78                 | -28.00          | -5.37        | 0.290        | 34.77           | -40.14      | -3.22        | 0.476        | 36.99            | -40.21      |
| 707.50          | 3                       | QPSK   | 1 / 0          | 24.99                 | -28.00          | <b>-5.16</b> | 0.305        | 34.77           | -39.93      | <b>-3.01</b> | 0.500        | 36.99            | -40.00      |
| 714.50          | 3                       | QPSK   | 1 / 0          | 24.95                 | -28.00          | -5.20        | 0.302        | 34.77           | -39.97      | -3.05        | 0.495        | 36.99            | -40.04      |
| 707.50          | 3                       | 16-QAM | 1 / 0          | 24.52                 | -28.00          | <b>-5.63</b> | 0.274        | 34.77           | -40.40      | <b>-3.48</b> | 0.449        | 36.99            | -40.47      |
| 701.50          | 5                       | QPSK   | 1 / 24         | 24.91                 | -28.00          | -5.24        | 0.299        | 34.77           | -40.01      | -3.09        | 0.491        | 36.99            | -40.08      |
| 707.50          | 5                       | QPSK   | 1 / 0          | 24.99                 | -28.00          | <b>-5.16</b> | 0.305        | 34.77           | -39.93      | <b>-3.01</b> | 0.500        | 36.99            | -40.00      |
| 713.50          | 5                       | QPSK   | 1 / 24         | 24.97                 | -28.00          | -5.18        | 0.303        | 34.77           | -39.95      | -3.03        | 0.498        | 36.99            | -40.02      |
| 707.50          | 5                       | 16-QAM | 1 / 0          | 24.40                 | -28.00          | <b>-5.75</b> | 0.266        | 34.77           | -40.52      | <b>-3.60</b> | 0.437        | 36.99            | -40.59      |
| 704.00          | 10                      | QPSK   | 1 / 49         | 24.88                 | -28.00          | -5.27        | 0.297        | 34.77           | -40.04      | -3.12        | 0.488        | 36.99            | -40.11      |
| 707.50          | 10                      | QPSK   | 1 / 0          | 24.91                 | -28.00          | <b>-5.24</b> | 0.299        | 34.77           | -40.01      | <b>-3.09</b> | 0.491        | 36.99            | -40.08      |
| 711.00          | 10                      | QPSK   | 1 / 0          | 24.84                 | -28.00          | -5.31        | 0.294        | 34.77           | -40.08      | -3.16        | 0.483        | 36.99            | -40.15      |
| 704.00          | 10                      | 16-QAM | 1 / 27         | 24.45                 | -28.00          | <b>-5.70</b> | 0.269        | 34.77           | -40.47      | <b>-3.55</b> | 0.442        | 36.99            | -40.54      |

Table 7-7. ERP Data (Band 12)

| Frequency [MHz] | Channel Bandwidth [MHz] | Mod.   | RB Size/Offset | Conducted Power [dBm] | Ant. Gain [dBi] | ERP [dBm]    | ERP [mW]     | ERP Limit [dBm] | Margin [dB] | EIRP [dBm]   | EIRP [mW]    | EIRP Limit [dBm] | Margin [dB] |
|-----------------|-------------------------|--------|----------------|-----------------------|-----------------|--------------|--------------|-----------------|-------------|--------------|--------------|------------------|-------------|
| 706.50          | 5                       | QPSK   | 1 / 24         | 25.00                 | -28.00          | <b>-5.15</b> | <b>0.305</b> | 34.77           | -39.92      | <b>-3.00</b> | <b>0.501</b> | 36.99            | -39.99      |
| 710.00          | 5                       | QPSK   | 1 / 0          | 24.97                 | -28.00          | -5.18        | 0.303        | 34.77           | -39.95      | -3.03        | 0.498        | 36.99            | -40.02      |
| 713.50          | 5                       | QPSK   | 1 / 24         | 24.99                 | -28.00          | -5.16        | 0.305        | 34.77           | -39.93      | -3.01        | 0.500        | 36.99            | -40.00      |
| 706.50          | 5                       | 16-QAM | 1 / 24         | 24.48                 | -28.00          | <b>-5.67</b> | 0.271        | 34.77           | -40.44      | <b>-3.52</b> | 0.445        | 36.99            | -40.51      |
| 709.00          | 10                      | QPSK   | 1 / 0          | 24.95                 | -28.00          | -5.20        | 0.302        | 34.77           | -39.97      | -3.05        | 0.495        | 36.99            | -40.04      |
| 710.00          | 10                      | QPSK   | 1 / 0          | 24.95                 | -28.00          | -5.20        | 0.302        | 34.77           | -39.97      | -3.05        | 0.495        | 36.99            | -40.04      |
| 711.00          | 10                      | QPSK   | 1 / 0          | 24.98                 | -28.00          | <b>-5.17</b> | 0.304        | 34.77           | -39.94      | <b>-3.02</b> | 0.499        | 36.99            | -40.01      |
| 711.00          | 10                      | 16-QAM | 1 / 0          | 24.44                 | -28.00          | <b>-5.71</b> | 0.269        | 34.77           | -40.48      | <b>-3.56</b> | 0.441        | 36.99            | -40.55      |

Table 7-8. ERP Data (Band 17)

|                                         |                                                                                                                                   |                    |                                 |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019                                                                                            | EUT Type:<br>Watch | Page 191 of 238                 |

| Frequency [MHz] | Channel Bandwidth [MHz] | Mod.   | RB Size/Offset | Conducted Power [dBm] | Ant. Gain [dBi] | ERP [dBm]    | ERP [mW]     | ERP Limit [dBm] | Margin [dB] | EIRP [dBm]   | EIRP [mW]    | EIRP Limit [dBm] | Margin [dB] |
|-----------------|-------------------------|--------|----------------|-----------------------|-----------------|--------------|--------------|-----------------|-------------|--------------|--------------|------------------|-------------|
| 779.50          | 5                       | QPSK   | 1 / 0          | 24.96                 | -26.40          | -3.59        | 0.438        | 34.77           | -38.36      | -1.44        | 0.718        | 36.99            | -38.43      |
| 782.00          | 5                       | QPSK   | 1 / 0          | 25.00                 | -26.40          | <b>-3.55</b> | <b>0.442</b> | 34.77           | -38.32      | <b>-1.40</b> | <b>0.724</b> | 36.99            | -38.39      |
| 784.50          | 5                       | QPSK   | 1 / 0          | 24.99                 | -26.40          | -3.56        | 0.441        | 34.77           | -38.33      | -1.41        | 0.723        | 36.99            | -38.40      |
| 784.50          | 5                       | 16-QAM | 1 / 24         | 24.80                 | -26.40          | <b>-3.75</b> | 0.422        | 34.77           | -38.52      | <b>-1.60</b> | 0.692        | 36.99            | -38.59      |
| 782.00          | 10                      | QPSK   | 1 / 0          | 25.00                 | -26.40          | <b>-3.55</b> | <b>0.442</b> | 34.77           | -38.32      | <b>-1.40</b> | <b>0.724</b> | 36.99            | -38.39      |
| 782.00          | 10                      | 16-QAM | 1 / 0          | 24.53                 | -26.40          | <b>-4.02</b> | 0.396        | 34.77           | -38.79      | <b>-1.87</b> | 0.650        | 36.99            | -38.86      |

**Table 7-9. ERP Data (Band 13)**

| Frequency [MHz] | Channel Bandwidth [MHz] | Mod.   | RB Size/Offset | Conducted Power [dBm] | Ant. Gain [dBi] | ERP [dBm]    | ERP [mW]     | ERP Limit [dBm] | Margin [dB] | EIRP [dBm]   | EIRP [mW]    | EIRP Limit [dBm] | Margin [dB] |
|-----------------|-------------------------|--------|----------------|-----------------------|-----------------|--------------|--------------|-----------------|-------------|--------------|--------------|------------------|-------------|
| 824.70          | 1.4                     | QPSK   | 1 / 0          | 24.93                 | -26.30          | -3.52        | 0.445        | 38.45           | -41.97      | -1.37        | 0.729        | 40.61            | -41.98      |
| 836.50          | 1.4                     | QPSK   | 1 / 5          | 24.99                 | -26.30          | <b>-3.46</b> | 0.451        | 38.45           | -41.91      | <b>-1.31</b> | 0.740        | 40.61            | -41.92      |
| 848.30          | 1.4                     | QPSK   | 1 / 5          | 24.86                 | -26.30          | -3.59        | 0.438        | 38.45           | -42.04      | -1.44        | 0.718        | 40.61            | -42.05      |
| 836.50          | 1.4                     | 16-QAM | 1 / 0          | 24.50                 | -26.30          | <b>-3.95</b> | 0.403        | 38.45           | -42.40      | <b>-1.80</b> | 0.661        | 40.61            | -42.41      |
| 825.50          | 3                       | QPSK   | 1 / 0          | 24.92                 | -26.30          | <b>-3.53</b> | 0.444        | 38.45           | -41.98      | <b>-1.38</b> | 0.728        | 40.61            | -41.99      |
| 836.50          | 3                       | QPSK   | 1 / 14         | 24.88                 | -26.30          | -3.57        | 0.440        | 38.45           | -42.02      | -1.42        | 0.721        | 40.61            | -42.03      |
| 847.50          | 3                       | QPSK   | 1 / 14         | 24.80                 | -26.30          | -3.65        | 0.432        | 38.45           | -42.10      | -1.50        | 0.708        | 40.61            | -42.11      |
| 836.50          | 3                       | 16-QAM | 1 / 14         | 24.44                 | -26.30          | -4.01        | 0.397        | 38.45           | -42.46      | -1.86        | 0.652        | 40.61            | -42.47      |
| 826.50          | 5                       | QPSK   | 1 / 0          | 24.83                 | -26.30          | -3.62        | 0.435        | 38.45           | -42.07      | -1.47        | 0.713        | 40.61            | -42.08      |
| 836.50          | 5                       | QPSK   | 1 / 0          | 24.99                 | -26.30          | -3.46        | 0.451        | 38.45           | -41.91      | -1.31        | 0.740        | 40.61            | -41.92      |
| 846.50          | 5                       | QPSK   | 1 / 0          | 25.00                 | -26.30          | <b>-3.45</b> | <b>0.452</b> | 38.45           | -41.90      | <b>-1.30</b> | <b>0.741</b> | 40.61            | -41.91      |
| 846.50          | 5                       | 16-QAM | 1 / 0          | 24.53                 | -26.30          | -3.92        | 0.406        | 38.45           | -42.37      | -1.77        | 0.665        | 40.61            | -42.38      |
| 829.00          | 10                      | QPSK   | 1 / 0          | 24.78                 | -26.30          | -3.67        | 0.430        | 38.45           | -42.12      | -1.52        | 0.705        | 40.61            | -42.13      |
| 836.50          | 10                      | QPSK   | 1 / 0          | 24.92                 | -26.30          | <b>-3.53</b> | 0.444        | 38.45           | -41.98      | <b>-1.38</b> | 0.728        | 40.61            | -41.99      |
| 844.00          | 10                      | QPSK   | 1 / 0          | 24.89                 | -26.30          | -3.56        | 0.441        | 38.45           | -42.01      | -1.41        | 0.723        | 40.61            | -42.02      |
| 844.00          | 10                      | 16-QAM | 1 / 0          | 24.52                 | -26.30          | <b>-3.93</b> | 0.405        | 38.45           | -42.38      | <b>-1.78</b> | 0.664        | 40.61            | -42.39      |

**Table 7-10. ERP Data (Band 5)**

|                                         |                                                                                                                               |                    |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       |  <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019                                                                                        | EUT Type:<br>Watch | Page 192 of 238                 |

| Frequency [MHz] | Channel Bandwidth [MHz] | Mod.   | RB Size/Offset | Conducted Power [dBm] | Ant. Gain [dBi] | ERP [dBm]    | ERP [mW]     | ERP Limit [dBm] | Margin [dB] | EIRP [dBm]   | EIRP [mW]    | EIRP Limit [dBm] | Margin [dB] |
|-----------------|-------------------------|--------|----------------|-----------------------|-----------------|--------------|--------------|-----------------|-------------|--------------|--------------|------------------|-------------|
| 824.70          | 1.4                     | QPSK   | 1 / 0          | 24.84                 | -26.30          | -3.61        | 0.436        | 38.45           | -42.06      | -1.46        | 0.714        | 40.61            | -42.07      |
| 836.50          | 1.4                     | QPSK   | 1 / 5          | 24.97                 | -26.30          | <b>-3.48</b> | 0.449        | 38.45           | -41.93      | <b>-1.33</b> | 0.736        | 40.61            | -41.94      |
| 848.30          | 1.4                     | QPSK   | 1 / 5          | 24.89                 | -26.30          | -3.56        | 0.441        | 38.45           | -42.01      | -1.41        | 0.723        | 40.61            | -42.02      |
| 836.50          | 1.4                     | 16-QAM | 1 / 5          | 24.48                 | -26.30          | <b>-3.97</b> | 0.401        | 38.45           | -42.42      | <b>-1.82</b> | 0.658        | 40.61            | -42.43      |
| 825.50          | 3                       | QPSK   | 1 / 0          | 24.74                 | -26.30          | -3.71        | 0.426        | 38.45           | -42.16      | -1.56        | 0.698        | 40.61            | -42.17      |
| 836.50          | 3                       | QPSK   | 1 / 0          | 24.82                 | -26.30          | <b>-3.63</b> | 0.434        | 38.45           | -42.08      | <b>-1.48</b> | 0.711        | 40.61            | -42.09      |
| 847.50          | 3                       | QPSK   | 1 / 14         | 24.73                 | -26.30          | -3.72        | 0.425        | 38.45           | -42.17      | -1.57        | 0.697        | 40.61            | -42.18      |
| 847.50          | 3                       | 16-QAM | 1 / 14         | 24.44                 | -26.30          | <b>-4.01</b> | 0.397        | 38.45           | -42.46      | <b>-1.86</b> | 0.652        | 40.61            | -42.47      |
| 826.50          | 5                       | QPSK   | 1 / 0          | 24.90                 | -26.30          | -3.55        | 0.442        | 38.45           | -42.00      | -1.40        | 0.724        | 40.61            | -42.01      |
| 836.50          | 5                       | QPSK   | 1 / 24         | 25.00                 | -26.30          | <b>-3.45</b> | <b>0.452</b> | 38.45           | -41.90      | <b>-1.30</b> | <b>0.741</b> | 40.61            | -41.91      |
| 846.50          | 5                       | QPSK   | 1 / 24         | 24.91                 | -26.30          | -3.54        | 0.443        | 38.45           | -41.99      | -1.39        | 0.726        | 40.61            | -42.00      |
| 836.50          | 5                       | 16-QAM | 1 / 24         | 24.50                 | -26.30          | <b>-3.95</b> | 0.403        | 38.45           | -42.40      | <b>-1.80</b> | 0.661        | 40.61            | -42.41      |
| 829.00          | 10                      | QPSK   | 1 / 49         | 24.78                 | -26.30          | -3.67        | 0.430        | 38.45           | -42.12      | -1.52        | 0.705        | 40.61            | -42.13      |
| 836.50          | 10                      | QPSK   | 1 / 49         | 24.90                 | -26.30          | <b>-3.55</b> | 0.442        | 38.45           | -42.00      | <b>-1.40</b> | 0.724        | 40.61            | -42.01      |
| 844.00          | 10                      | QPSK   | 1 / 0          | 24.76                 | -26.30          | -3.69        | 0.428        | 38.45           | -42.14      | -1.54        | 0.701        | 40.61            | -42.15      |
| 836.50          | 10                      | 16-QAM | 1 / 27         | 24.51                 | -26.30          | <b>-3.94</b> | 0.404        | 38.45           | -42.39      | <b>-1.79</b> | 0.662        | 40.61            | -42.40      |

Table 7-11. ERP Data (Band 26)

|                                         |                                                                                                                                   |                    |                                 |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019                                                                                            | EUT Type:<br>Watch | Page 193 of 238                 |

| Frequency [MHz] | Channel Bandwidth [MHz] | Mod.   | RB Size/Offset | Conducted Power [dBm] | Ant. Gain [dBi] | EIRP [dBm]   | EIRP [mW]     | EIRP Limit [dBm] | Margin [dB] |
|-----------------|-------------------------|--------|----------------|-----------------------|-----------------|--------------|---------------|------------------|-------------|
| 1710.70         | 1.4                     | QPSK   | 1 / 5          | 24.00                 | -14.00          | <b>10.00</b> | <b>10.000</b> | 30.00            | -20.00      |
| 1732.50         | 1.4                     | QPSK   | 1 / 0          | 24.00                 | -14.00          | <b>10.00</b> | <b>10.000</b> | 30.00            | -20.00      |
| 1754.30         | 1.4                     | QPSK   | 1 / 0          | 23.99                 | -14.00          | 9.99         | 9.977         | 30.00            | -20.01      |
| 1732.50         | 1.4                     | 16-QAM | 1 / 0          | 23.51                 | -14.00          | <b>9.51</b>  | 8.933         | 30.00            | -20.49      |
| 1711.50         | 3                       | QPSK   | 1 / 14         | 24.00                 | -14.00          | <b>10.00</b> | <b>10.000</b> | 30.00            | -20.00      |
| 1732.50         | 3                       | QPSK   | 1 / 14         | 23.98                 | -14.00          | 9.98         | 9.954         | 30.00            | -20.02      |
| 1753.50         | 3                       | QPSK   | 1 / 14         | 23.99                 | -14.00          | 9.99         | 9.977         | 30.00            | -20.01      |
| 1711.50         | 3                       | 16-QAM | 1 / 14         | 23.50                 | -14.00          | 9.50         | 8.913         | 30.00            | -20.50      |
| 1712.50         | 5                       | QPSK   | 1 / 24         | 23.90                 | -14.00          | 9.90         | 9.772         | 30.00            | -20.10      |
| 1732.50         | 5                       | QPSK   | 1 / 24         | 23.97                 | -14.00          | 9.97         | 9.931         | 30.00            | -20.03      |
| 1752.50         | 5                       | QPSK   | 1 / 0          | 24.00                 | -14.00          | <b>10.00</b> | <b>10.000</b> | 30.00            | -20.00      |
| 1732.50         | 5                       | 16-QAM | 1 / 24         | 23.43                 | -14.00          | <b>9.43</b>  | 8.770         | 30.00            | -20.57      |
| 1715.00         | 10                      | QPSK   | 1 / 0          | 23.97                 | -14.00          | 9.97         | 9.931         | 30.00            | -20.03      |
| 1732.50         | 10                      | QPSK   | 1 / 0          | 24.00                 | -14.00          | <b>10.00</b> | <b>10.000</b> | 30.00            | -20.00      |
| 1750.00         | 10                      | QPSK   | 1 / 0          | 23.95                 | -14.00          | 9.95         | 9.886         | 30.00            | -20.05      |
| 1732.50         | 10                      | 16-QAM | 1 / 27         | 23.42                 | -14.00          | <b>9.42</b>  | 8.750         | 30.00            | -20.58      |
| 1717.50         | 15                      | QPSK   | 1 / 0          | 23.88                 | -14.00          | 9.88         | 9.727         | 30.00            | -20.12      |
| 1732.50         | 15                      | QPSK   | 1 / 74         | 24.00                 | -14.00          | <b>10.00</b> | <b>10.000</b> | 30.00            | -20.00      |
| 1747.50         | 15                      | QPSK   | 1 / 74         | 23.98                 | -14.00          | 9.98         | 9.954         | 30.00            | -20.02      |
| 1747.50         | 15                      | 16-QAM | 1 / 27         | 23.45                 | -14.00          | <b>9.45</b>  | 8.810         | 30.00            | -20.55      |
| 1720.00         | 20                      | QPSK   | 1 / 0          | 23.97                 | -14.00          | 9.97         | 9.931         | 30.00            | -20.03      |
| 1732.50         | 20                      | QPSK   | 1 / 99         | 23.99                 | -14.00          | 9.99         | 9.977         | 30.00            | -20.01      |
| 1745.00         | 20                      | QPSK   | 1 / 99         | 24.00                 | -14.00          | <b>10.00</b> | <b>10.000</b> | 30.00            | -20.00      |
| 1745.00         | 20                      | 16-QAM | 1 / 27         | 23.43                 | -14.00          | <b>9.43</b>  | 8.770         | 30.00            | -20.57      |

**Table 7-12. EIRP Data (Band 4)**

|                                         |                                                                                                                                   |                    |                                 |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019                                                                                            | EUT Type:<br>Watch | Page 194 of 238                 |

| Frequency [MHz] | Channel Bandwidth [MHz] | Mod.   | RB Size/Offset | Conducted Power [dBm] | Ant. Gain [dBi] | EIRP [dBm]   | EIRP [mW]     | EIRP Limit [dBm] | Margin [dB] |
|-----------------|-------------------------|--------|----------------|-----------------------|-----------------|--------------|---------------|------------------|-------------|
| 1710.70         | 1.4                     | QPSK   | 1 / 5          | 23.80                 | -14.00          | 9.80         | 9.550         | 30.00            | -20.20      |
| 1745.00         | 1.4                     | QPSK   | 1 / 5          | 23.96                 | -14.00          | <b>9.96</b>  | 9.908         | 30.00            | -20.04      |
| 1779.30         | 1.4                     | QPSK   | 1 / 0          | 23.83                 | -14.00          | 9.83         | 9.616         | 30.00            | -20.17      |
| 1710.70         | 1.4                     | 16-QAM | 1 / 5          | 23.35                 | -14.00          | <b>9.35</b>  | 8.610         | 30.00            | -20.65      |
| 1711.50         | 3                       | QPSK   | 1 / 0          | 23.81                 | -14.00          | <b>9.81</b>  | 9.572         | 30.00            | -20.19      |
| 1745.00         | 3                       | QPSK   | 1 / 0          | 23.70                 | -14.00          | 9.70         | 9.333         | 30.00            | -20.30      |
| 1778.50         | 3                       | QPSK   | 1 / 14         | 23.72                 | -14.00          | 9.72         | 9.376         | 30.00            | -20.28      |
| 1778.50         | 3                       | 16-QAM | 1 / 0          | 23.40                 | -14.00          | <b>9.40</b>  | 8.710         | 30.00            | -20.60      |
| 1712.50         | 5                       | QPSK   | 1 / 0          | 23.77                 | -14.00          | 9.77         | 9.484         | 30.00            | -20.23      |
| 1745.00         | 5                       | QPSK   | 1 / 0          | 23.86                 | -14.00          | <b>9.86</b>  | 9.683         | 30.00            | -20.14      |
| 1777.50         | 5                       | QPSK   | 1 / 24         | 23.79                 | -14.00          | 9.79         | 9.528         | 30.00            | -20.21      |
| 1777.50         | 5                       | 16-QAM | 1 / 0          | 23.52                 | -14.00          | <b>9.52</b>  | 8.954         | 30.00            | -20.48      |
| 1715.00         | 10                      | QPSK   | 1 / 0          | 23.66                 | -14.00          | 9.66         | 9.247         | 30.00            | -20.34      |
| 1745.00         | 10                      | QPSK   | 1 / 0          | 23.80                 | -14.00          | <b>9.80</b>  | 9.550         | 30.00            | -20.20      |
| 1775.00         | 10                      | QPSK   | 1 / 49         | 23.76                 | -14.00          | 9.76         | 9.462         | 30.00            | -20.24      |
| 1745.00         | 10                      | 16-QAM | 1 / 27         | 23.55                 | -14.00          | <b>9.55</b>  | 9.016         | 30.00            | -20.45      |
| 1717.50         | 15                      | QPSK   | 1 / 0          | 23.64                 | -14.00          | 9.64         | 9.204         | 30.00            | -20.36      |
| 1745.00         | 15                      | QPSK   | 1 / 0          | 24.00                 | -14.00          | <b>10.00</b> | <b>10.000</b> | 30.00            | -20.00      |
| 1772.50         | 15                      | QPSK   | 1 / 0          | 23.82                 | -14.00          | 9.82         | 9.594         | 30.00            | -20.18      |
| 1772.50         | 15                      | 16-QAM | 1 / 27         | 23.50                 | -14.00          | <b>9.50</b>  | 8.913         | 30.00            | -20.50      |
| 1720.00         | 20                      | QPSK   | 1 / 0          | 23.78                 | -14.00          | 9.78         | 9.506         | 30.00            | -20.22      |
| 1745.00         | 20                      | QPSK   | 1 / 99         | 23.99                 | -14.00          | <b>9.99</b>  | 9.977         | 30.00            | -20.01      |
| 1770.00         | 20                      | QPSK   | 1 / 99         | 23.68                 | -14.00          | 9.68         | 9.290         | 30.00            | -20.32      |
| 1745.00         | 20                      | 16-QAM | 1 / 27         | 23.40                 | -14.00          | <b>9.40</b>  | 8.710         | 30.00            | -20.60      |

Table 7-13. EIRP Data (Band 66)

|                                         |                                                                                                                               |                    |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       |  <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019                                                                                        | EUT Type:<br>Watch | Page 195 of 238                 |

| Frequency [MHz] | Channel Bandwidth [MHz] | Mod.   | RB Size/Offset | Conducted Power [dBm] | Ant. Gain [dBi] | EIRP [dBm]   | EIRP [mW]     | EIRP Limit [dBm] | Margin [dB] |
|-----------------|-------------------------|--------|----------------|-----------------------|-----------------|--------------|---------------|------------------|-------------|
| 1850.70         | 1.4                     | QPSK   | 3 / 2          | 23.74                 | -12.40          | 11.34        | 13.614        | 33.01            | -21.67      |
| 1880.00         | 1.4                     | QPSK   | 3 / 2          | 23.80                 | -12.40          | 11.40        | 13.804        | 33.01            | -21.61      |
| 1909.30         | 1.4                     | QPSK   | 3 / 2          | 23.89                 | -12.40          | <b>11.49</b> | 14.093        | 33.01            | -21.52      |
| 1850.70         | 1.4                     | 16-QAM | 1 / 5          | 23.37                 | -12.40          | <b>10.97</b> | 12.503        | 33.01            | -22.04      |
| 1851.50         | 3                       | QPSK   | 1 / 0          | 23.73                 | -12.40          | <b>11.33</b> | 13.583        | 33.01            | -21.68      |
| 1880.00         | 3                       | QPSK   | 1 / 0          | 23.53                 | -12.40          | 11.13        | 12.972        | 33.01            | -21.88      |
| 1908.50         | 3                       | QPSK   | 1 / 14         | 23.44                 | -12.40          | 11.04        | 12.706        | 33.01            | -21.97      |
| 1851.50         | 3                       | 16-QAM | 1 / 14         | 23.31                 | -12.40          | <b>10.91</b> | 12.331        | 33.01            | -22.10      |
| 1852.50         | 5                       | QPSK   | 1 / 0          | 23.78                 | -12.40          | <b>11.38</b> | 13.740        | 33.01            | -21.63      |
| 1880.00         | 5                       | QPSK   | 1 / 0          | 23.71                 | -12.40          | 11.31        | 13.521        | 33.01            | -21.70      |
| 1907.50         | 5                       | QPSK   | 1 / 0          | 23.52                 | -12.40          | 11.12        | 12.942        | 33.01            | -21.89      |
| 1907.50         | 5                       | 16-QAM | 1 / 24         | 23.33                 | -12.40          | <b>10.93</b> | 12.388        | 33.01            | -22.08      |
| 1855.00         | 10                      | QPSK   | 1 / 0          | 23.76                 | -12.40          | 11.36        | 13.677        | 33.01            | -21.65      |
| 1880.00         | 10                      | QPSK   | 1 / 0          | 23.79                 | -12.40          | 11.39        | 13.772        | 33.01            | -21.62      |
| 1905.00         | 10                      | QPSK   | 1 / 0          | 23.80                 | -12.40          | <b>11.40</b> | 13.804        | 33.01            | -21.61      |
| 1905.00         | 10                      | 16-QAM | 1 / 0          | 23.37                 | -12.40          | <b>10.97</b> | 12.503        | 33.01            | -22.04      |
| 1857.50         | 15                      | QPSK   | 1 / 0          | 23.82                 | -12.40          | <b>11.42</b> | 13.868        | 33.01            | -21.59      |
| 1880.00         | 15                      | QPSK   | 1 / 0          | 23.81                 | -12.40          | 11.41        | 13.836        | 33.01            | -21.60      |
| 1902.50         | 15                      | QPSK   | 1 / 0          | 23.67                 | -12.40          | 11.27        | 13.397        | 33.01            | -21.74      |
| 1902.50         | 15                      | 16-QAM | 1 / 0          | 23.43                 | -12.40          | <b>11.03</b> | 12.677        | 33.01            | -21.98      |
| 1860.00         | 20                      | QPSK   | 1 / 99         | 23.94                 | -12.40          | 11.54        | 14.256        | 33.01            | -21.47      |
| 1880.00         | 20                      | QPSK   | 1 / 0          | 23.97                 | -12.40          | 11.57        | 14.355        | 33.01            | -21.44      |
| 1900.00         | 20                      | QPSK   | 1 / 0          | 23.98                 | -12.40          | <b>11.58</b> | <b>14.388</b> | 33.01            | -21.43      |
| 1880.00         | 20                      | 16-QAM | 1 / 0          | 23.44                 | -12.40          | <b>11.04</b> | 12.706        | 33.01            | -21.97      |

**Table 7-14. EIRP Data (Band 2)**

|                                         |                                                                                                                               |                    |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       |  <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019                                                                                        | EUT Type:<br>Watch | Page 196 of 238                 |

| Frequency [MHz] | Channel Bandwidth [MHz] | Mod.   | RB Size/Offset | Conducted Power [dBm] | Ant. Gain [dBi] | EIRP [dBm]   | EIRP [mW]     | EIRP Limit [dBm] | Margin [dB] |
|-----------------|-------------------------|--------|----------------|-----------------------|-----------------|--------------|---------------|------------------|-------------|
| 1850.70         | 1.4                     | QPSK   | 1 / 0          | 23.87                 | -12.40          | <b>11.47</b> | 14.028        | 33.01            | -21.54      |
| 1882.50         | 1.4                     | QPSK   | 3 / 2          | 23.77                 | -12.40          | 11.37        | 13.709        | 33.01            | -21.64      |
| 1914.30         | 1.4                     | QPSK   | 1 / 0          | 23.59                 | -12.40          | 11.19        | 13.152        | 33.01            | -21.82      |
| 1882.50         | 1.4                     | 16-QAM | 1 / 0          | 23.28                 | -12.40          | <b>10.88</b> | 12.246        | 33.01            | -22.13      |
| 1851.50         | 3                       | QPSK   | 1 / 0          | 23.87                 | -12.40          | <b>11.47</b> | 14.028        | 33.01            | -21.54      |
| 1882.50         | 3                       | QPSK   | 1 / 0          | 23.70                 | -12.40          | 11.30        | 13.490        | 33.01            | -21.71      |
| 1913.50         | 3                       | QPSK   | 1 / 0          | 23.87                 | -12.40          | 11.47        | 14.028        | 33.01            | -21.54      |
| 1882.50         | 3                       | 16-QAM | 1 / 0          | 23.37                 | -12.40          | <b>10.97</b> | 12.503        | 33.01            | -22.04      |
| 1852.50         | 5                       | QPSK   | 1 / 0          | 23.85                 | -12.40          | <b>11.45</b> | 13.964        | 33.01            | -21.56      |
| 1882.50         | 5                       | QPSK   | 1 / 0          | 23.64                 | -12.40          | 11.24        | 13.305        | 33.01            | -21.77      |
| 1912.50         | 5                       | QPSK   | 1 / 0          | 23.73                 | -12.40          | 11.33        | 13.583        | 33.01            | -21.68      |
| 1882.50         | 5                       | 16-QAM | 1 / 0          | 23.37                 | -12.40          | <b>10.97</b> | 12.503        | 33.01            | -22.04      |
| 1855.00         | 10                      | QPSK   | 1 / 0          | 23.66                 | -12.40          | 11.26        | 13.366        | 33.01            | -21.75      |
| 1882.50         | 10                      | QPSK   | 1 / 49         | 23.75                 | -12.40          | <b>11.35</b> | 13.646        | 33.01            | -21.66      |
| 1910.00         | 10                      | QPSK   | 1 / 0          | 23.69                 | -12.40          | 11.29        | 13.459        | 33.01            | -21.72      |
| 1882.50         | 10                      | 16-QAM | 1 / 0          | 23.37                 | -12.40          | <b>10.97</b> | 12.503        | 33.01            | -22.04      |
| 1857.50         | 15                      | QPSK   | 1 / 0          | 23.89                 | -12.40          | <b>11.49</b> | <b>14.093</b> | 33.01            | -21.52      |
| 1882.50         | 15                      | QPSK   | 1 / 0          | 23.81                 | -12.40          | 11.41        | 13.836        | 33.01            | -21.60      |
| 1907.50         | 15                      | QPSK   | 1 / 0          | 23.64                 | -12.40          | 11.24        | 13.305        | 33.01            | -21.77      |
| 1882.50         | 15                      | 16-QAM | 1 / 0          | 23.40                 | -12.40          | <b>11.00</b> | 12.589        | 33.01            | -22.01      |
| 1860.00         | 20                      | QPSK   | 1 / 99         | 23.77                 | -12.40          | 11.37        | 13.709        | 33.01            | -21.64      |
| 1882.50         | 20                      | QPSK   | 1 / 99         | 23.85                 | -12.40          | <b>11.45</b> | 13.964        | 33.01            | -21.56      |
| 1905.00         | 20                      | QPSK   | 1 / 0          | 23.65                 | -12.40          | 11.25        | 13.335        | 33.01            | -21.76      |
| 1882.50         | 20                      | 16-QAM | 1 / 0          | 23.34                 | -12.40          | <b>10.94</b> | 12.417        | 33.01            | -22.07      |

Table 7-15. EIRP Data (Band 25)

|                                         |                                                                                                                               |                    |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       |  <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019                                                                                        | EUT Type:<br>Watch | Page 197 of 238                 |

| Frequency [MHz] | Channel Bandwidth [MHz] | Mod.   | RB Size/Offset | Conducted Power [dBm] | Ant. Gain [dBi] | EIRP [dBm]   | EIRP [mW]     | EIRP Limit [dBm] | Margin [dB] |
|-----------------|-------------------------|--------|----------------|-----------------------|-----------------|--------------|---------------|------------------|-------------|
| 2502.50         | 5                       | QPSK   | 1 / 24         | 23.48                 | -13.10          | <b>10.38</b> | <b>10.914</b> | 33.01            | -22.63      |
| 2535.00         | 5                       | QPSK   | 1 / 24         | 23.20                 | -13.10          | 10.10        | 10.233        | 33.01            | -22.91      |
| 2567.50         | 5                       | QPSK   | 1 / 0          | 23.21                 | -13.10          | 10.11        | 10.257        | 33.01            | -22.90      |
| 2502.50         | 5                       | 16-QAM | 1 / 24         | 22.98                 | -13.10          | <b>9.88</b>  | 9.727         | 33.01            | -23.13      |
| 2505.00         | 10                      | QPSK   | 1 / 49         | 23.30                 | -13.10          | <b>10.20</b> | 10.471        | 33.01            | -22.81      |
| 2535.00         | 10                      | QPSK   | 1 / 0          | 23.14                 | -13.10          | 10.04        | 10.093        | 33.01            | -22.97      |
| 2565.00         | 10                      | QPSK   | 1 / 49         | 23.28                 | -13.10          | 10.18        | 10.423        | 33.01            | -22.83      |
| 2505.00         | 10                      | 16-QAM | 1 / 27         | 23.08                 | -13.10          | <b>9.98</b>  | 9.954         | 33.01            | -23.03      |
| 2507.50         | 15                      | QPSK   | 1 / 74         | 23.16                 | -13.10          | 10.06        | 10.139        | 33.01            | -22.95      |
| 2535.00         | 15                      | QPSK   | 1 / 0          | 23.21                 | -13.10          | <b>10.11</b> | 10.257        | 33.01            | -22.90      |
| 2562.50         | 15                      | QPSK   | 1 / 74         | 22.97                 | -13.10          | 9.87         | 9.705         | 33.01            | -23.14      |
| 2507.50         | 15                      | 16-QAM | 1 / 27         | 22.98                 | -13.10          | <b>9.88</b>  | 9.727         | 33.01            | -23.13      |
| 2510.00         | 20                      | QPSK   | 1 / 99         | 23.17                 | -13.10          | 10.07        | 10.162        | 33.01            | -22.94      |
| 2535.00         | 20                      | QPSK   | 1 / 0          | 23.20                 | -13.10          | <b>10.10</b> | 10.233        | 33.01            | -22.91      |
| 2560.00         | 20                      | QPSK   | 1 / 99         | 23.18                 | -13.10          | 10.08        | 10.186        | 33.01            | -22.93      |
| 2510.00         | 20                      | 16-QAM | 1 / 27         | 23.00                 | -13.10          | <b>9.90</b>  | 9.772         | 33.01            | -23.11      |

Table 7-16. EIRP Data (Band 7)

|                                         |                                                                                                                               |                    |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       |  <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019                                                                                        | EUT Type:<br>Watch | Page 198 of 238                 |

| Frequency [MHz] | Channel Bandwidth [MHz] | Mod.   | RB Size/Offset | Conducted Power [dBm] | Ant. Gain [dBi] | EIRP [dBm]   | EIRP [mW]     | EIRP Limit [dBm] | Margin [dB] |
|-----------------|-------------------------|--------|----------------|-----------------------|-----------------|--------------|---------------|------------------|-------------|
| 2498.50         | 5                       | QPSK   | 1 / 24         | 23.50                 | -13.00          | <b>10.50</b> | <b>11.220</b> | 33.01            | -22.51      |
| 2593.00         | 5                       | QPSK   | 1 / 0          | 23.31                 | -13.00          | 10.31        | 10.740        | 33.01            | -22.70      |
| 2687.50         | 5                       | QPSK   | 1 / 0          | 23.45                 | -13.00          | 10.45        | 11.092        | 33.01            | -22.56      |
| 2593.00         | 5                       | 16-QAM | 1 / 0          | 22.68                 | -13.00          | <b>9.68</b>  | 9.290         | 33.01            | -23.33      |
| 2501.00         | 10                      | QPSK   | 1 / 0          | 23.50                 | -13.00          | <b>10.50</b> | <b>11.220</b> | 33.01            | -22.51      |
| 2593.00         | 10                      | QPSK   | 1 / 0          | 23.47                 | -13.00          | 10.47        | 11.143        | 33.01            | -22.54      |
| 2685.00         | 10                      | QPSK   | 1 / 0          | 23.50                 | -13.00          | <b>10.50</b> | <b>11.220</b> | 33.01            | -22.51      |
| 2685.00         | 10                      | 16-QAM | 1 / 27         | 22.63                 | -13.00          | <b>9.63</b>  | 9.183         | 33.01            | -23.38      |
| 2503.50         | 15                      | QPSK   | 1 / 74         | 23.48                 | -13.00          | <b>10.48</b> | 11.169        | 33.01            | -22.53      |
| 2593.00         | 15                      | QPSK   | 1 / 74         | 23.42                 | -13.00          | 10.42        | 11.015        | 33.01            | -22.59      |
| 2682.50         | 15                      | QPSK   | 1 / 74         | 23.38                 | -13.00          | 10.38        | 10.914        | 33.01            | -22.63      |
| 2503.50         | 15                      | 16-QAM | 1 / 27         | 22.63                 | -13.00          | <b>9.63</b>  | 9.183         | 33.01            | -23.38      |
| 2506.00         | 20                      | QPSK   | 1 / 99         | 23.49                 | -13.00          | 10.49        | 11.194        | 33.01            | -22.52      |
| 2593.00         | 20                      | QPSK   | 1 / 99         | 23.50                 | -13.00          | <b>10.50</b> | <b>11.220</b> | 33.01            | -22.51      |
| 2680.00         | 20                      | QPSK   | 1 / 0          | 23.48                 | -13.00          | 10.48        | 11.169        | 33.01            | -22.53      |
| 2506.00         | 20                      | 16-QAM | 1 / 27         | 22.63                 | -13.00          | <b>9.63</b>  | 9.183         | 33.01            | -23.38      |

Table 7-17. EIRP Data (Band 41)

|                                         |                                                                                                                                   |                    |                                 |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019                                                                                            | EUT Type:<br>Watch | Page 199 of 238                 |

## 7.7 Radiated Spurious Emissions Measurements

### 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 v03r01 – Section 5.8

ANSI/TIA-603-E-2016 – Section 2.2.12

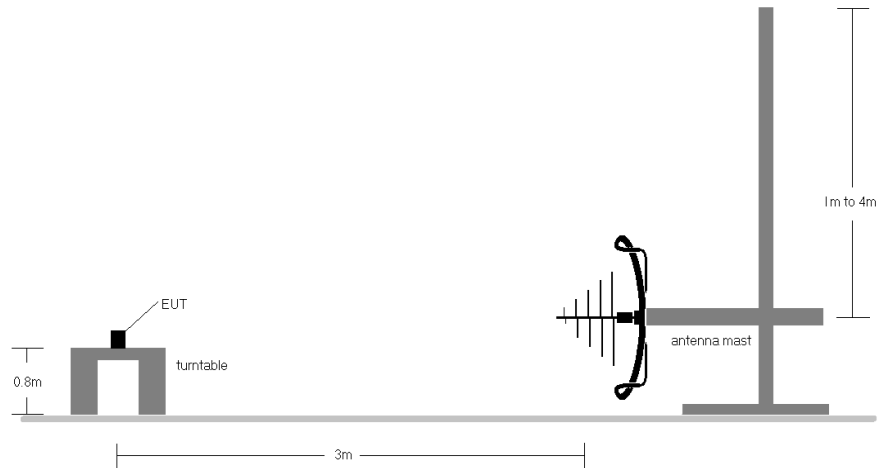
### Test Settings

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

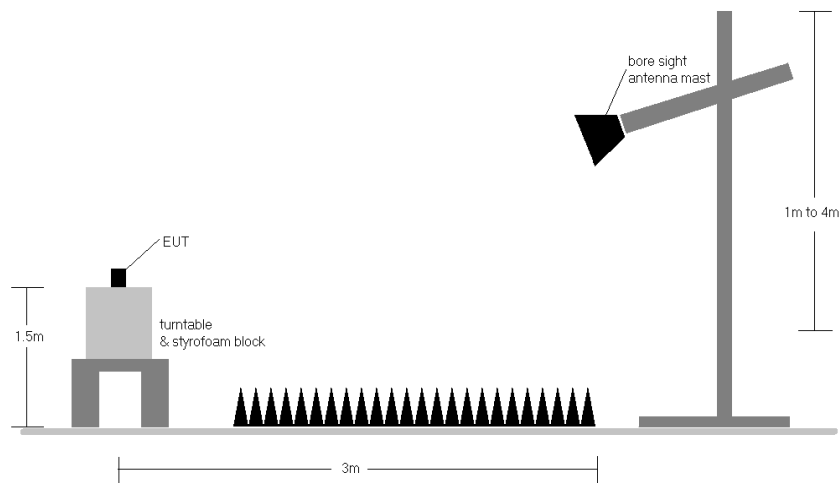
|                                         |                                                                                                                                   |                    |                                 |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019                                                                                            | EUT Type:<br>Watch | Page 200 of 238                 |

## Test Setup

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



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



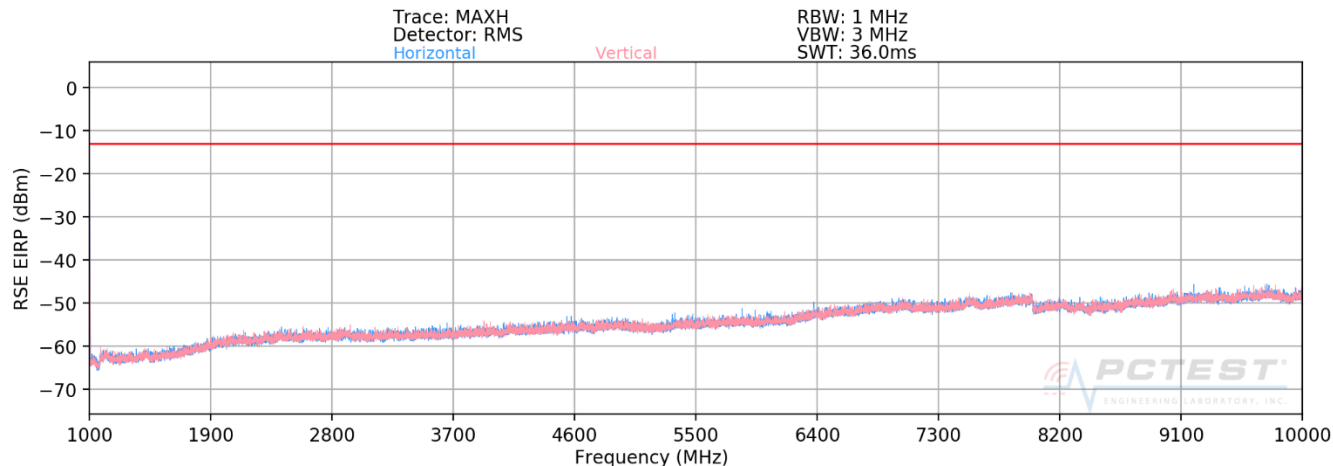
**Figure 7-7. Test Instrument & Measurement Setup > 1GHz**

## 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.
- 6) Below 1GHz Pre-scan plot shows no significant emissions.

|                                         |                                                                                                                                   |                    |                                 |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019                                                                                            | EUT Type:<br>Watch | Page 201 of 238                 |

## Band 12/17



**Plot 7-316. Radiated Spurious Plot above 1GHz (Band 12/17)**

OPERATING FREQUENCY: 704.00 MHz  
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         | H               | -                   | -                          | -71.89                           | 4.35                          | -67.54                        | -54.5       |
| 2112.00         | H               | -                   | -                          | -69.29                           | 5.05                          | -64.24                        | -51.2       |
| 2816.00         | H               | -                   | -                          | -70.05                           | 6.90                          | -63.15                        | -50.2       |
| 3520.00         | H               | -                   | -                          | -71.17                           | 8.03                          | -63.14                        | -50.1       |

**Table 7-18. Radiated Spurious Data (Band 12/17 – Low Channel)**

|                                         |                                               |                    |                                 |
|-----------------------------------------|-----------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019        | EUT Type:<br>Watch | Page 202 of 238                 |

OPERATING FREQUENCY: 707.50 MHz  
 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         | H               | -                   | -                          | -71.79                           | 4.42                          | -67.36                        | -54.4       |
| 2122.50         | V               | 114                 | 26                         | -69.11                           | 5.22                          | -63.89                        | -50.9       |
| 2830.00         | H               | -                   | -                          | -69.85                           | 7.01                          | -62.85                        | -49.8       |
| 3537.50         | H               | -                   | -                          | -71.01                           | 8.00                          | -63.01                        | -50.0       |

Table 7-19. Radiated Spurious Data (Band 12/17 – Mid Channel)

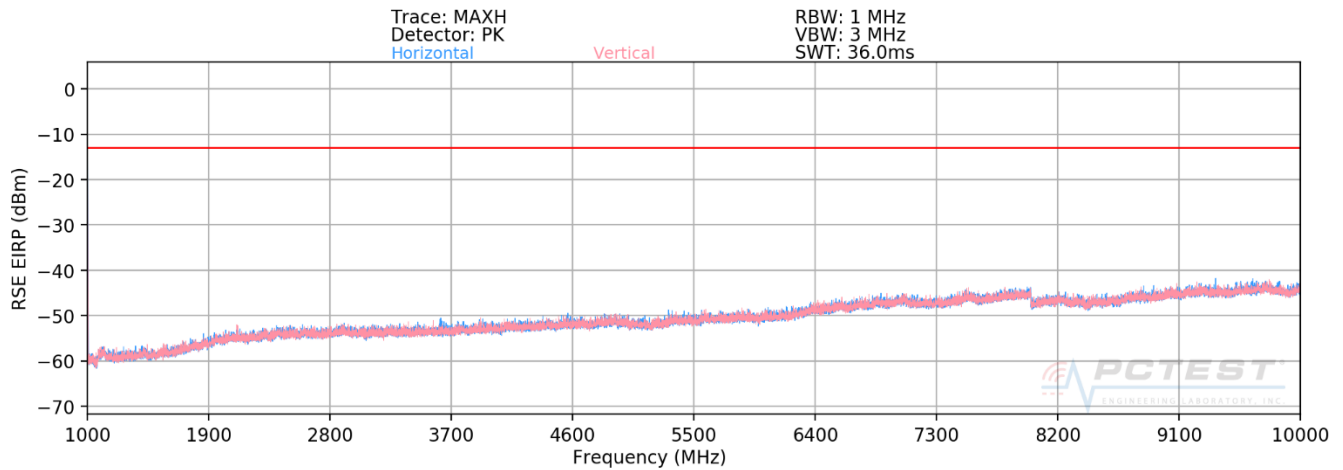
OPERATING FREQUENCY: 711.00 MHz  
 MODULATION SIGNAL: QPSK  
 BANDWIDTH: 10.0 MHz  
 DISTANCE: 3 meters  
 LIMIT: -13 dBm

| 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         | H               | -                   | -                          | -71.85                           | 4.50                          | -67.35                        | -54.3       |
| 2133.00         | H               | -                   | -                          | -69.33                           | 5.34                          | -63.99                        | -51.0       |
| 2844.00         | H               | -                   | -                          | -70.42                           | 7.06                          | -63.36                        | -50.4       |
| 3555.00         | H               | -                   | -                          | -70.87                           | 7.98                          | -62.88                        | -49.9       |

Table 7-20. Radiated Spurious Data (Band 12/17 – High Channel)

|                                         |                                                                                                                                   |                    |                                 |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019                                                                                            | EUT Type:<br>Watch | Page 203 of 238                 |

## Band 13



**Plot 7-317. Radiated Spurious Plot above 1GHz (Band 13)**

OPERATING FREQUENCY: 779.50 MHz

MODULATION SIGNAL: QPSK

BANDWIDTH: 5.0 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------------------|-------------------------------|-------------------------------|-------------|
| 2338.50         | V               | 121                 | 342                        | -69.82                           | 6.21                          | -63.61                        | -50.6       |
| 3118.00         | V               | -                   | -                          | -70.76                           | 7.46                          | -63.30                        | -50.3       |
| 3897.50         | V               | -                   | -                          | -71.61                           | 8.89                          | -62.71                        | -49.7       |

**Table 7-21. Radiated Spurious Data (Band 13 – Low Channel)**

|                                         |                                           |                    |                                 |
|-----------------------------------------|-------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       | <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019    | EUT Type:<br>Watch | Page 204 of 238                 |

OPERATING FREQUENCY: 782.00 MHz  
 MODULATION SIGNAL: QPSK  
 BANDWIDTH: 5.0 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               | -                   | -                          | -71.03                           | 6.22                          | -64.80                        | -51.8       |
| 3128.00         | V               | -                   | -                          | -70.63                           | 7.50                          | -63.13                        | -50.1       |
| 3910.00         | V               | -                   | -                          | -71.66                           | 8.92                          | -62.74                        | -49.7       |

Table 7-22. Radiated Spurious Data (Band 13 – Mid Channel)

OPERATING FREQUENCY: 784.50 MHz  
 MODULATION SIGNAL: QPSK  
 BANDWIDTH: 5.0 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------------------|-------------------------------|-------------------------------|-------------|
| 2353.50         | V               | 117                 | 354                        | -70.05                           | 6.22                          | -63.83                        | -50.8       |
| 3138.00         | V               | -                   | -                          | -70.82                           | 7.54                          | -63.28                        | -50.3       |
| 3922.50         | V               | -                   | -                          | -71.64                           | 8.95                          | -62.69                        | -49.7       |

Table 7-23. Radiated Spurious Data (Band 13 – High Channel)

|                                         |                                                                                                                               |                    |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       |  <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019                                                                                        | EUT Type:<br>Watch | Page 205 of 238                 |

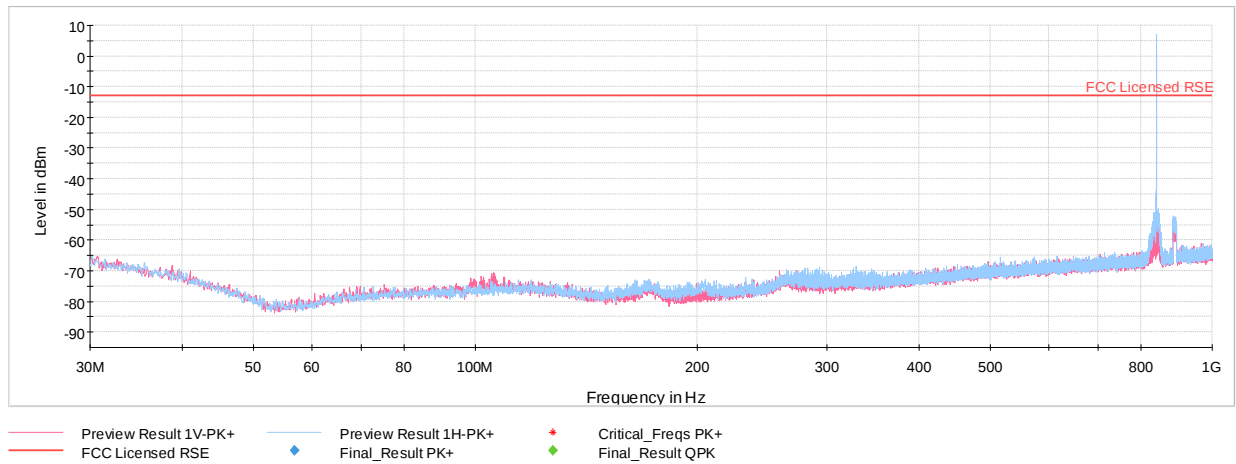
|                            |             |
|----------------------------|-------------|
| MODULATION SIGNAL:         | QPSK        |
| BANDWIDTH:                 | 5.00 MHz    |
| DISTANCE:                  | 3 meters    |
| NARROWBAND EMISSION LIMIT: | -50 dBm     |
| WIDEBAND EMISSION LIMIT:   | -40 dBm/MHz |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------------------|-------------------------------|-------------------------------|-------------|
| 1559.00         | V               | -                   | -                          | -73.43                           | 5.80                          | -67.63                        | -27.6       |
| 1564.00         | V               | -                   | -                          | -75.96                           | 5.82                          | -70.15                        | -30.1       |
| 1569.00         | V               | -                   | -                          | -73.28                           | 5.82                          | -67.46                        | -27.5       |

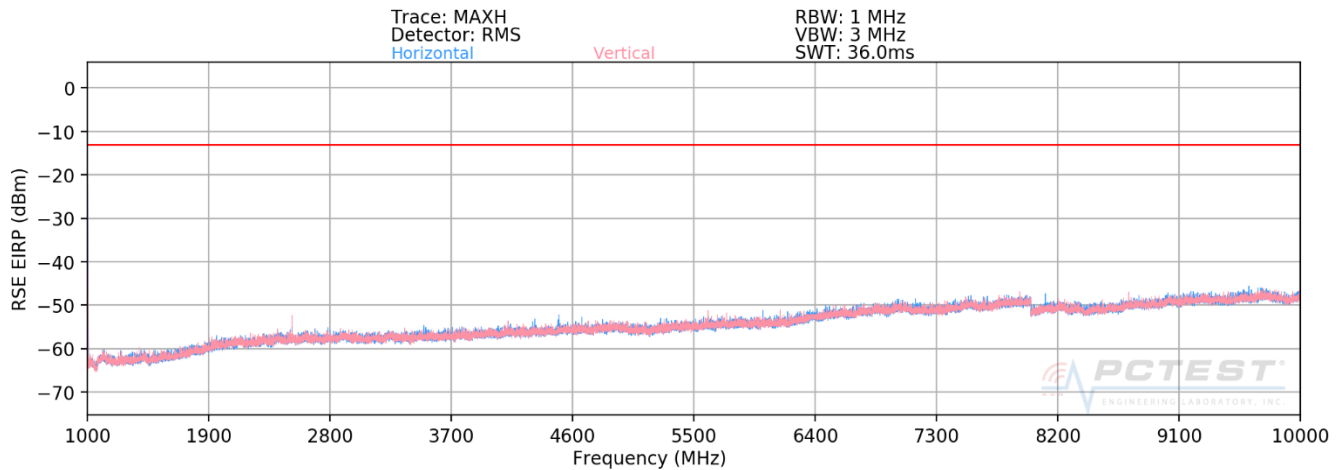
**Table 7-24. Radiated Spurious Data (Band 13 – 1559-1610MHz Band)**

|                                         |                                                                                                                               |                    |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       |  <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019                                                                                        | EUT Type:<br>Watch | Page 206 of 238                 |

## Band 26/5



**Plot 7-318. Radiated Spurious Plot - Below 1GHz (Band 26/5, with WCP + AC/DC Adapter)**



**Plot 7-319. Radiated Spurious Plot above 1GHz (Band 26/5)**

|                                                |                                               |                                               |                                        |
|------------------------------------------------|-----------------------------------------------|-----------------------------------------------|----------------------------------------|
| FCC ID: BCG-A2094                              | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> | <b>Approved by:</b><br>Quality Manager |
| <b>Test Report S/N:</b><br>1C1905130008-03.BCG | <b>Test Dates:</b><br>05/01/2019 - 08/01/2019 | <b>EUT Type:</b><br>Watch                     | Page 207 of 238                        |

OPERATING FREQUENCY: 829.00 MHz  
 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------------------|-------------------------------|-------------------------------|-------------|
| 1658.00         | V               | -                   | -                          | -72.40                           | 5.50                          | -66.90                        | -53.9       |
| 2487.00         | V               | 390                 | 357                        | -67.78                           | 5.92                          | -61.87                        | -48.9       |
| 3316.00         | V               | -                   | -                          | -71.13                           | 7.87                          | -63.26                        | -50.3       |
| 4145.00         | V               | -                   | -                          | -70.74                           | 9.02                          | -61.71                        | -48.7       |

Table 7-25. Radiated Spurious Data (Band 26/5 – Low Channel)

OPERATING FREQUENCY: 836.50 MHz  
 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               | -                   | -                          | -72.49                           | 5.60                          | -66.88                        | -53.9       |
| 2509.50         | V               | 390                 | 358                        | -67.53                           | 5.90                          | -61.63                        | -48.6       |
| 3346.00         | V               | -                   | -                          | -70.94                           | 7.95                          | -62.99                        | -50.0       |
| 4182.50         | V               | -                   | -                          | -71.64                           | 9.13                          | -62.51                        | -49.5       |

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

|                                         |                                                                                                                                   |                    |                                 |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019                                                                                            | EUT Type:<br>Watch | Page 208 of 238                 |

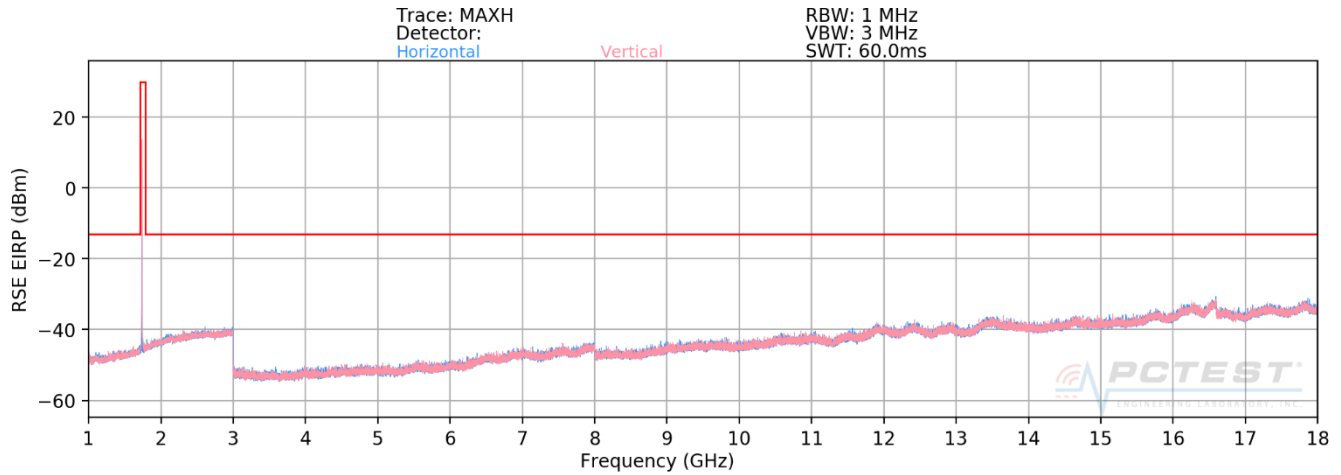
OPERATING FREQUENCY: 844.00 MHz  
 MODULATION SIGNAL: QPSK  
 BANDWIDTH: 10.0 MHz  
 DISTANCE: 3 meters  
 LIMIT: -13 dBm

| 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               | -                   | -                          | -72.36                           | 5.65                          | -66.71                        | -53.7       |
| 2532.00         | V               | 350                 | 360                        | -66.38                           | 5.93                          | -60.45                        | -47.5       |
| 3376.00         | V               | -                   | -                          | -70.81                           | 8.04                          | -62.77                        | -49.8       |
| 4220.00         | V               | -                   | -                          | -71.27                           | 9.19                          | -62.08                        | -49.1       |

Table 7-27. Radiated Spurious Data (Band 26/5 – High Channel)

|                                         |                                                                                                                               |                    |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       |  <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019                                                                                        | EUT Type:<br>Watch | Page 209 of 238                 |

## Band 66/4



**Plot 7-320. Radiated Spurious Plot above 1GHz (Band 66/4)**

OPERATING FREQUENCY: 1720.00 MHz  
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         | V               | -                   | -                          | -70.61                           | 8.12                          | -62.49                        | -49.5       |
| 5160.00         | V               | -                   | -                          | -71.68                           | 10.14                         | -61.54                        | -48.5       |
| 6880.00         | V               | -                   | -                          | -69.34                           | 11.38                         | -57.96                        | -45.0       |
| 8600.00         | V               | -                   | -                          | -70.06                           | 13.02                         | -57.04                        | -44.0       |

**Table 7-28. Radiated Spurious Data (Band 66/4 – Low Channel)**

|                                         |                                           |                    |                                 |
|-----------------------------------------|-------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       | <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019    | EUT Type:<br>Watch | Page 210 of 238                 |

OPERATING FREQUENCY: 1745.00 MHz  
 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         | V               | -                   | -                          | -71.01                           | 8.12                          | -62.89                        | -49.9       |
| 5235.00         | V               | 292                 | 3                          | -69.37                           | 10.14                         | -59.23                        | -46.2       |
| 6980.00         | V               | -                   | -                          | -69.25                           | 11.38                         | -57.87                        | -44.9       |
| 8725.00         | V               | -                   | -                          | -70.40                           | 13.02                         | -57.38                        | -44.4       |

Table 7-29. Radiated Spurious Data (Band 66/4 – Mid Channel)

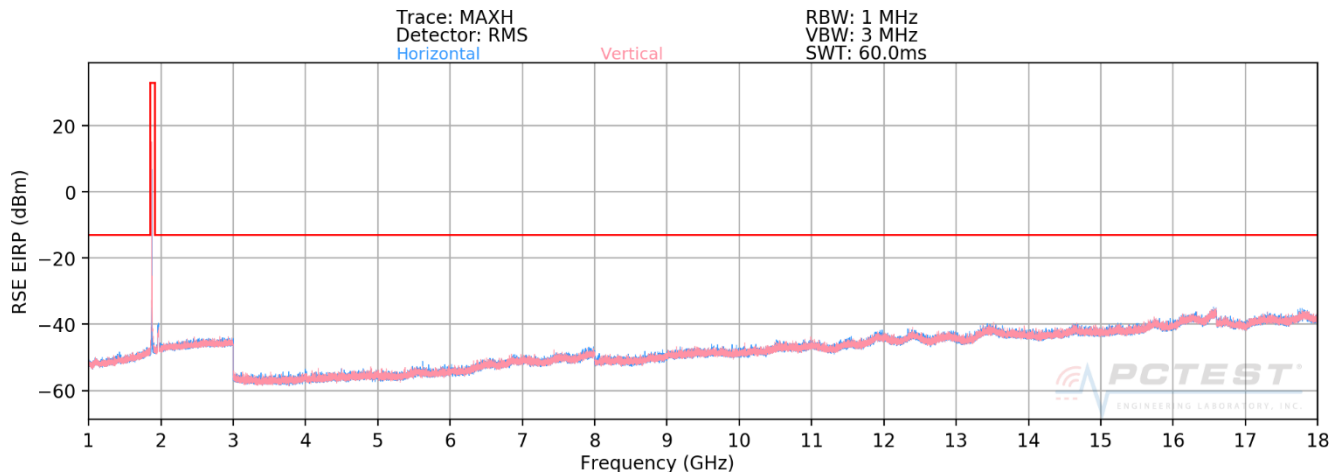
OPERATING FREQUENCY: 1770.00 MHz  
 MODULATION SIGNAL: QPSK  
 BANDWIDTH: 20.0 MHz  
 DISTANCE: 3 meters  
 LIMIT: -13 dBm

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------------------|-------------------------------|-------------------------------|-------------|
| 3540.00         | V               | -                   | -                          | -70.77                           | 8.12                          | -62.65                        | -49.6       |
| 5310.00         | V               | -                   | -                          | -71.07                           | 10.14                         | -60.93                        | -47.9       |
| 7080.00         | V               | -                   | -                          | -70.12                           | 11.38                         | -58.74                        | -45.7       |

Table 7-30. Radiated Spurious Data (Band 66/4 – High Channel)

|                                         |                                                                                                                                   |                    |                                 |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019                                                                                            | EUT Type:<br>Watch | Page 211 of 238                 |

## Band 25/2



**Plot 7-321. Radiated Spurious Plot above 1GHz (Band 25/2)**

OPERATING FREQUENCY: 1860.00 MHz  
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         | V               | 134                 | 336                        | -68.29                           | 8.42                          | -59.87                        | -46.9       |
| 5580.00         | V               | -                   | -                          | -70.97                           | 10.72                         | -60.25                        | -47.2       |
| 7440.00         | V               | -                   | -                          | -69.21                           | 11.89                         | -57.32                        | -44.3       |
| 9300.00         | V               | -                   | -                          | -68.69                           | 13.29                         | -55.40                        | -42.4       |

**Table 7-31. Radiated Spurious Data (Band 25/2 – Low Channel)**

|                                         |                                           |                    |                                 |
|-----------------------------------------|-------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       | <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019    | EUT Type:<br>Watch | Page 212 of 238                 |

OPERATING FREQUENCY: 1882.50 MHz  
 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------------------|-------------------------------|-------------------------------|-------------|
| 3765.00         | V               | 110                 | 317                        | -62.73                           | 8.48                          | -54.25                        | -41.3       |
| 5647.50         | V               | -                   | -                          | -71.23                           | 10.69                         | -60.54                        | -47.5       |
| 7530.00         | V               | -                   | -                          | -69.08                           | 11.99                         | -57.10                        | -44.1       |
| 9412.50         | V               | -                   | -                          | -67.68                           | 13.36                         | -54.32                        | -41.3       |

Table 7-32. Radiated Spurious Data (Band 25/2 – Mid Channel)

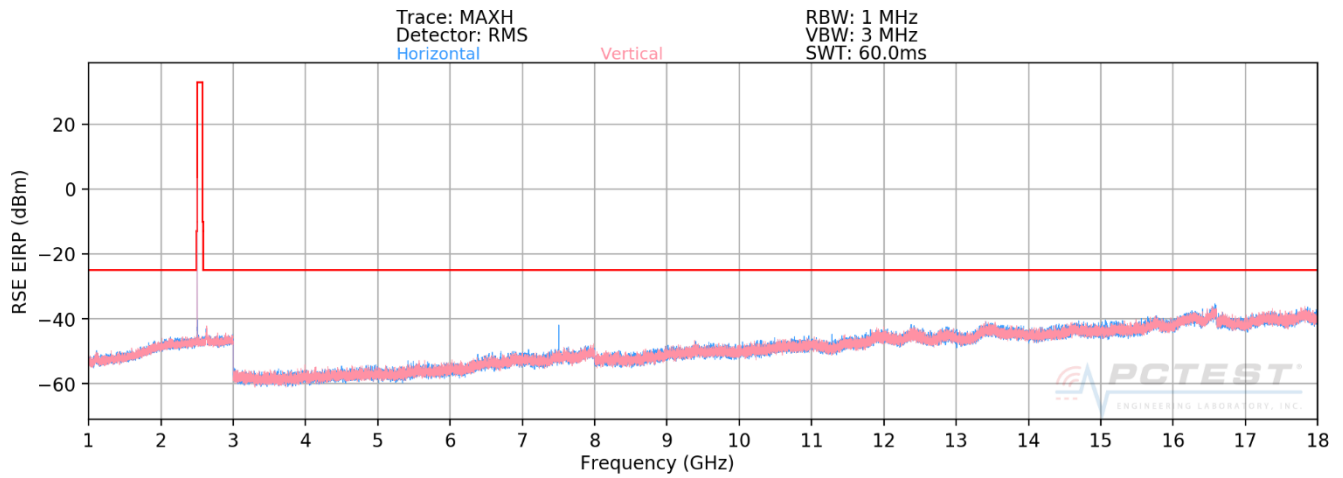
OPERATING FREQUENCY: 1905.00 MHz  
 MODULATION SIGNAL: QPSK  
 BANDWIDTH: 20.0 MHz  
 DISTANCE: 3 meters  
 LIMIT: -13 dBm

| 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         | V               | 138                 | 323                        | -67.76                           | 8.65                          | -59.11                        | -46.1       |
| 5715.00         | V               | -                   | -                          | -71.28                           | 10.67                         | -60.62                        | -47.6       |
| 7620.00         | V               | -                   | -                          | -69.18                           | 12.16                         | -57.02                        | -44.0       |
| 9525.00         | V               | -                   | -                          | -68.13                           | 13.19                         | -54.93                        | -41.9       |

Table 7-33. Radiated Spurious Data (Band 25/2 – High Channel)

|                                         |                                                                                                                               |                    |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       |  <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019                                                                                        | EUT Type:<br>Watch | Page 213 of 238                 |

## Band 7

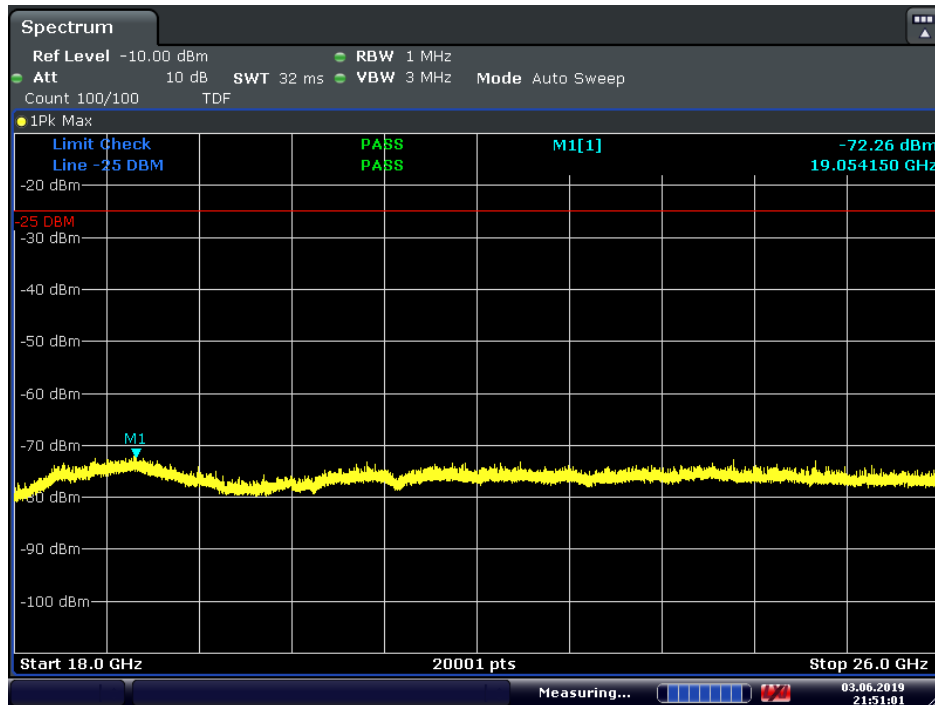


**Plot 7-322. Radiated Spurious Plot 1GHz - 18GHz (Band 7)**

|                                         |                                                                                                                                   |                    |                                 |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019                                                                                            | EUT Type:<br>Watch | Page 214 of 238                 |



Plot 7-323. Radiated Spurious Plot 18GHz – 26GHz (Band 7, Pol. H)



Plot 7-324. Radiated Spurious Plot 18GHz – 26GHz (Band 7, Pol. V)

|                                         |                                                                                                                                   |                    |                                 |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019                                                                                            | EUT Type:<br>Watch | Page 215 of 238                 |

OPERATING FREQUENCY: 2510.00 MHz  
 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               | -                   | -                          | -70.89                           | 10.00                         | -60.88                        | -35.9       |
| 7530.00         | H               | 293                 | 142                        | -49.11                           | 11.99                         | -37.13                        | -12.1       |
| 10040.00        | H               | -                   | -                          | -68.25                           | 13.11                         | -55.14                        | -30.1       |
| 12550.00        | H               | -                   | -                          | -64.95                           | 13.13                         | -51.82                        | -26.8       |
| 15060.00        | H               | -                   | -                          | -63.00                           | 14.05                         | -48.95                        | -24.0       |

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

OPERATING FREQUENCY: 2535.00 MHz  
 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------------------|-------------------------------|-------------------------------|-------------|
| 5070.00         | H               | 106                 | 244                        | -71.06                           | 10.07                         | -60.99                        | -36.0       |
| 7605.00         | H               | -                   | -                          | -68.96                           | 12.15                         | -56.81                        | -31.8       |
| 10140.00        | H               | -                   | -                          | -67.88                           | 13.10                         | -54.79                        | -29.8       |
| 12675.00        | H               | -                   | -                          | -64.04                           | 13.15                         | -50.89                        | -25.9       |

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

|                                         |                                                                                                                               |                    |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       |  <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019                                                                                        | EUT Type:<br>Watch | Page 216 of 238                 |

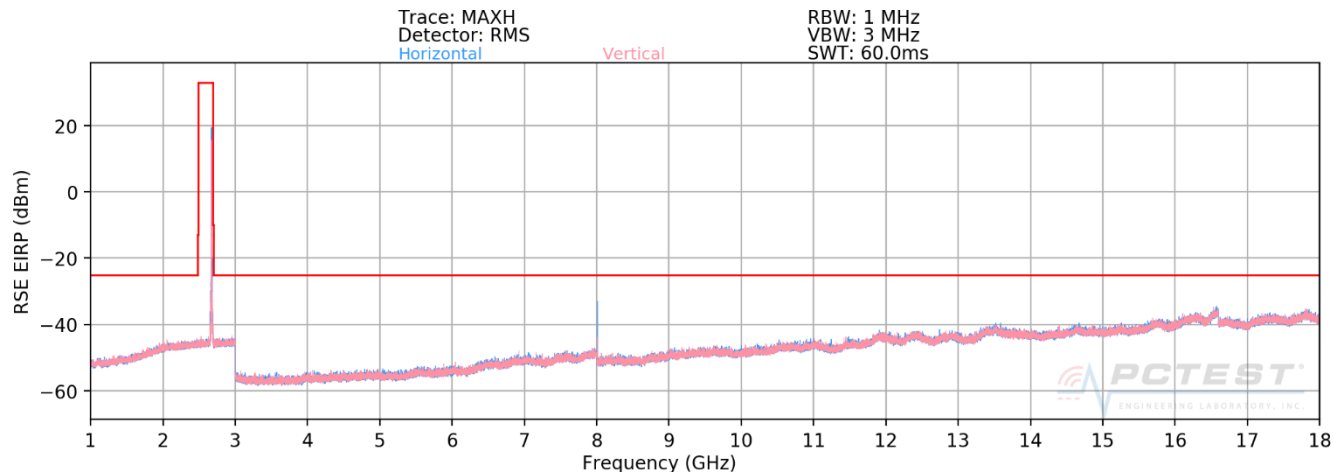
OPERATING FREQUENCY: 2560.00 MHz  
 MODULATION SIGNAL: QPSK  
 BANDWIDTH: 20.0 MHz  
 DISTANCE: 3 meters  
 LIMIT: -25 dBm

| 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               | -                   | -                          | -71.17                           | 10.10                         | -61.07                        | -36.1       |
| 7680.00         | H               | 317                 | 178                        | -64.57                           | 12.15                         | -52.42                        | -27.4       |
| 10240.00        | H               | -                   | -                          | -67.65                           | 13.10                         | -54.55                        | -29.5       |
| 12800.00        | H               | -                   | -                          | -64.25                           | 13.17                         | -51.08                        | -26.1       |
| 15360.00        | H               | -                   | -                          | -63.16                           | 14.01                         | -49.15                        | -24.2       |

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

|                                         |                                                                                                                               |                    |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       |  <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019                                                                                        | EUT Type:<br>Watch | Page 217 of 238                 |

## Band 41



**Plot 7-325. Radiated Spurious Plot 1GHz - 18GHz (Band 41)**

OPERATING FREQUENCY: 2506.00 MHz  
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               | 109                 | 178                        | -66.06                           | 9.99                          | -56.07                        | -31.1       |
| 7518.00         | H               | 230                 | 152                        | -49.62                           | 11.99                         | -37.64                        | -12.6       |
| 10024.00        | H               | -                   | -                          | -69.90                           | 13.11                         | -56.79                        | -31.8       |
| 12530.00        | H               | -                   | -                          | -66.04                           | 13.15                         | -52.90                        | -27.9       |
| 15036.00        | H               | -                   | -                          | -65.33                           | 14.06                         | -51.28                        | -26.3       |

**Table 7-37. Radiated Spurious Data (Band 41 – Low Channel)**

|                                         |                                           |                    |                                 |
|-----------------------------------------|-------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       | <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019    | EUT Type:<br>Watch | Page 218 of 238                 |

OPERATING FREQUENCY: 2593.00 MHz  
 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------------------|-------------------------------|-------------------------------|-------------|
| 5186.00         | H               | 114                 | 151                        | -62.39                           | 10.20                         | -52.19                        | -27.2       |
| 7779.00         | H               | 283                 | 141                        | -49.28                           | 12.20                         | -37.08                        | -12.1       |
| 10372.00        | H               | -                   | -                          | -69.36                           | 13.07                         | -56.29                        | -31.3       |
| 12965.00        | H               | -                   | -                          | -65.85                           | 13.25                         | -52.60                        | -27.6       |
| 15558.00        | H               | -                   | -                          | -64.50                           | 14.01                         | -50.49                        | -25.5       |

Table 7-38. Radiated Spurious Data (Band 41 – Mid Channel)

OPERATING FREQUENCY: 2680.00 MHz  
 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               | 107                 | 140                        | -68.06                           | 10.37                         | -57.69                        | -32.7       |
| 8040.00         | H               | 236                 | 138                        | -47.51                           | 12.53                         | -34.98                        | -10.0       |
| 10720.00        | H               | -                   | -                          | -68.31                           | 13.07                         | -55.25                        | -30.2       |
| 13400.00        | H               | -                   | -                          | -67.03                           | 13.78                         | -53.26                        | -28.3       |
| 16080.00        | H               | -                   | -                          | -63.59                           | 13.63                         | -49.96                        | -25.0       |

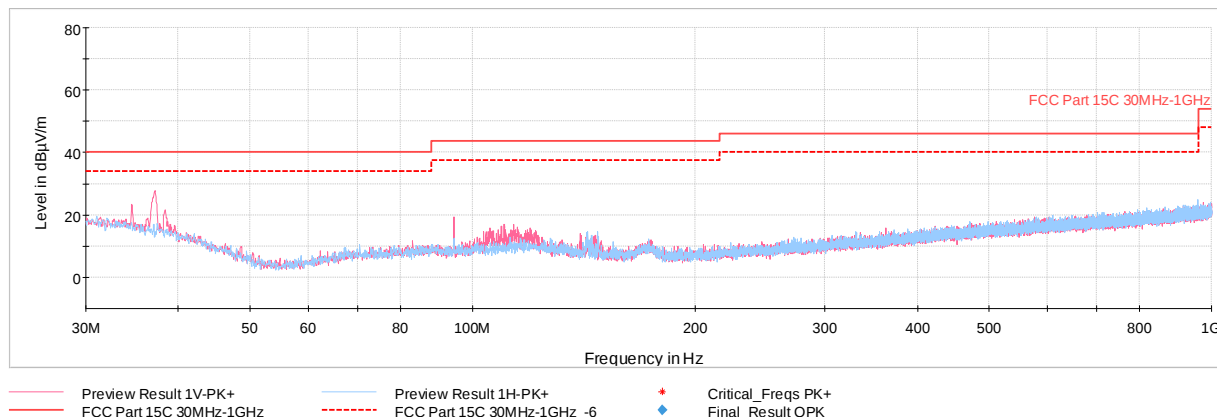
Table 7-39. Radiated Spurious Data (Band 41 – High Channel)

|                                         |                                                                                                                               |                    |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       |  <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019                                                                                        | EUT Type:<br>Watch | Page 219 of 238                 |

## Simultaneous Tx Radiated Spurious Measurements

| Description               | WIFI 2.4GHz | LTE            |
|---------------------------|-------------|----------------|
| Antenna                   | FCM         | FCM            |
| Channel                   | 6           | 41490          |
| Operating Frequency (MHz) | 2437        | 2680           |
| Mode/Modulation           | 802.11b     | QPSK/1RB/20MHz |

**Table 7-40. Worst Case Simultaneous Transmission Config**

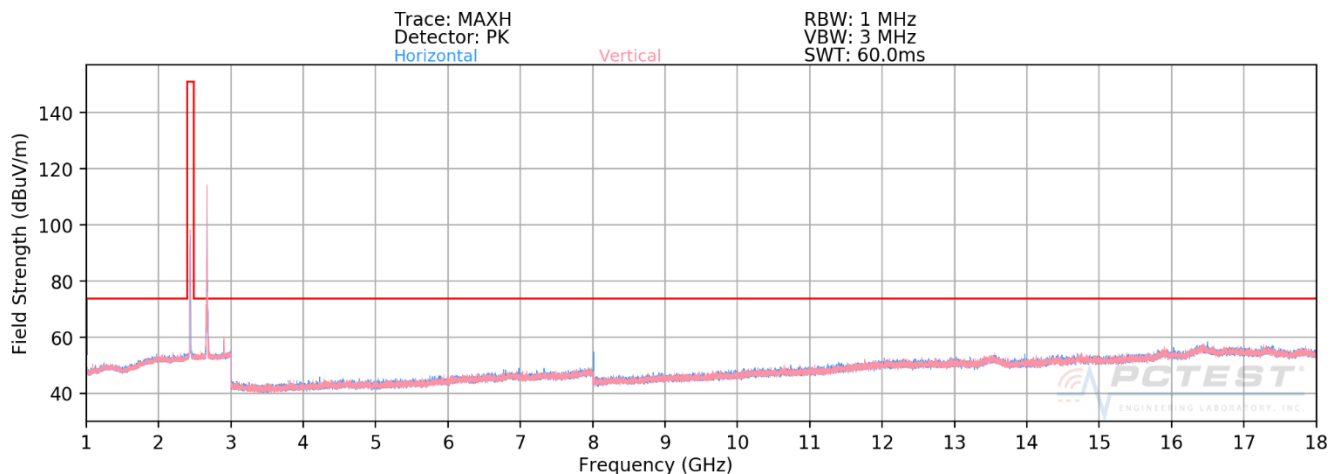


**Plot 7-326. Radiated Spurious Plot Below 1GHz (with WCP + AC/DC Adapter)**

| Frequency [MHz] | Detector | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | Limit [dBμV/m] | Margin [dB] |
|-----------------|----------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|----------------|-------------|
| 34.61           | Max Peak | V               | 100                 | 10                         | -72.00               | -11.60      | 23.40                   | 40.00          | -16.60      |
| 37.23           | Max Peak | V               | 100                 | 285                        | -66.20               | -13.10      | 27.70                   | 40.00          | -12.30      |
| 38.44           | Max Peak | V               | 100                 | 248                        | -71.71               | -13.70      | 21.59                   | 40.00          | -18.41      |
| 94.41           | Max Peak | V               | 100                 | 301                        | -69.62               | -18.10      | 19.28                   | 43.52          | -24.24      |
| 110.32          | Max Peak | V               | 100                 | 215                        | -72.61               | -17.30      | 17.09                   | 43.52          | -26.43      |
| 139.90          | Max Peak | V               | 100                 | 82                         | -74.42               | -18.60      | 13.98                   | 43.52          | -29.54      |

**Table 7-41. Radiated Spurious Measurements Below 1GHz (with WCP + AC/DC Adapter)**

|                                         |                                               |                                               |  |  |  |  |  |                                        |  |
|-----------------------------------------|-----------------------------------------------|-----------------------------------------------|--|--|--|--|--|----------------------------------------|--|
| FCC ID: BCG-A2094                       | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |  |  |  |  |  | <b>Approved by:</b><br>Quality Manager |  |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019        | EUT Type:<br>Watch                            |  |  |  |  |  | Page 220 of 238                        |  |

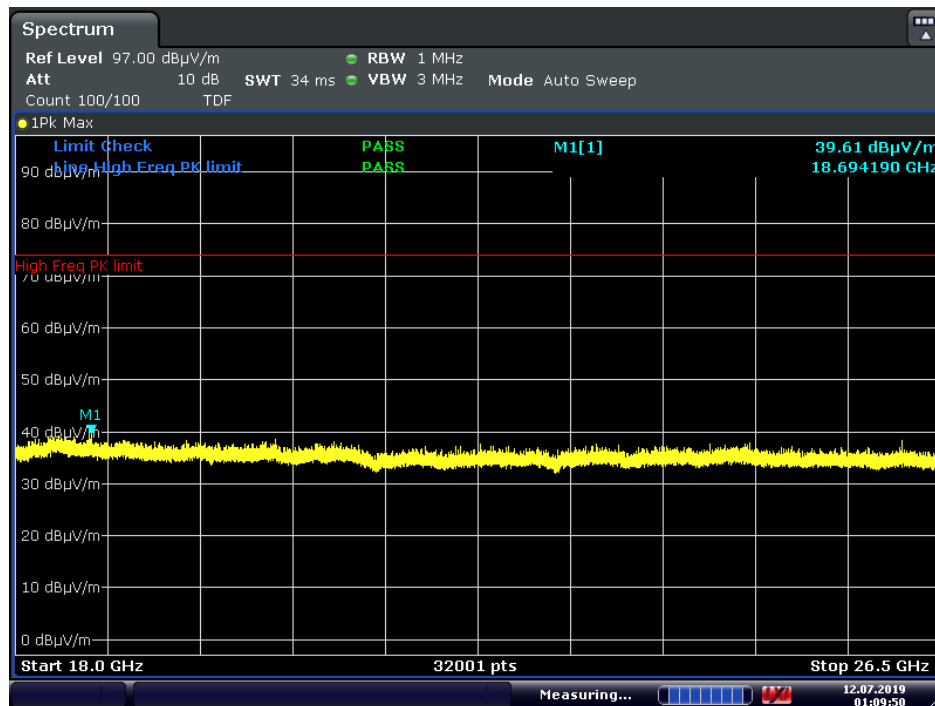


**Plot 7-327. Radiated Spurious Plot Above 1GHz**

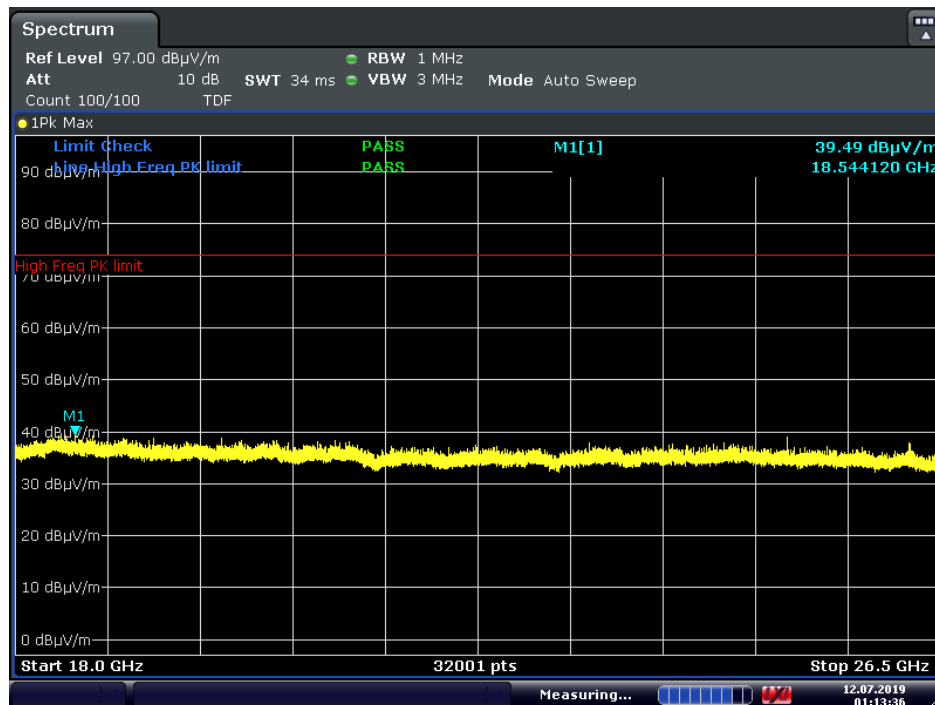
| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Level at Antenna Terminals [dBm] | Substitute Antenna Gain [dBi] | Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------------------|-------------------------------|-------------------------------|-------------|-------------|
| 5360.00         | H               | -                   | -                          | -66.75                           | 10.37                         | -56.37                        | -25.00      | -31.4       |
| 8040.00         | H               | 109                 | 223                        | -63.56                           | 12.53                         | -51.03                        | -25.00      | -26.0       |
| 10720.00        | H               | -                   | -                          | -63.66                           | 13.07                         | -50.59                        | -25.00      | -25.6       |
| 2194.00         | H               | 156                 | 250                        | -45.48                           | 5.60                          | -39.87                        | -25.00      | -14.9       |
| 2923.00         | H               | 102                 | 141                        | -42.54                           | 7.06                          | -35.48                        | -25.00      | -10.5       |

**Table 7-42. Radiated Spurious Measurements Above 1GHz**

|                                         |                                                                                                                                   |                    |                                 |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019                                                                                            | EUT Type:<br>Watch | Page 221 of 238                 |



Plot 7-328. Radiated Spurious Plot Above 18GHz (Ant. Pol. H)



Plot 7-329. Radiated Spurious Plot Above 18GHz (Ant. Pol. V)

|                                         |                                               |                                       |                                 |
|-----------------------------------------|-----------------------------------------------|---------------------------------------|---------------------------------|
| FCC ID: BCG-A2094                       | <b>PCTEST</b><br>ENGINEERING LABORATORY, INC. | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019        | EUT Type:<br>Watch                    | Page 222 of 238                 |

## 7.8 Frequency Stability / Temperature Variation

### 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, the frequency stability of the transmitter shall be maintained within  $\pm 0.00025\%$  ( $\pm 2.5$  ppm) of the center frequency. For Part 24, Part 27, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.***

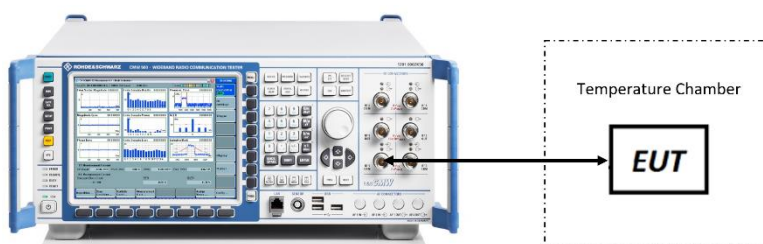
### Test Procedure Used

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



**Figure 7-8. Test Instrument & Measurement Setup**

### Test Notes

None

|                                         |                                                                                                                                   |                    |                                 |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019                                                                                            | EUT Type:<br>Watch | Page 223 of 238                 |

## Band 12/17 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        | - 30      | 707,500,004    | 4               | 0.0000006     |
| 100 %          |             | - 20      | 707,500,004    | 4               | 0.0000006     |
| 100 %          |             | - 10      | 707,500,005    | 5               | 0.0000006     |
| 100 %          |             | 0         | 707,500,004    | 4               | 0.0000006     |
| 100 %          |             | + 10      | 707,500,004    | 4               | 0.0000006     |
| 100 %          |             | + 20      | 707,500,005    | 5               | 0.0000007     |
| 100 %          |             | + 30      | 707,500,005    | 5               | 0.0000006     |
| 100 %          |             | + 40      | 707,500,004    | 4               | 0.0000006     |
| 100 %          |             | + 50      | 707,500,005    | 5               | 0.0000007     |
| BATT. ENDPOINT | 3.40        | + 20      | 707,500,004    | 4               | 0.0000006     |

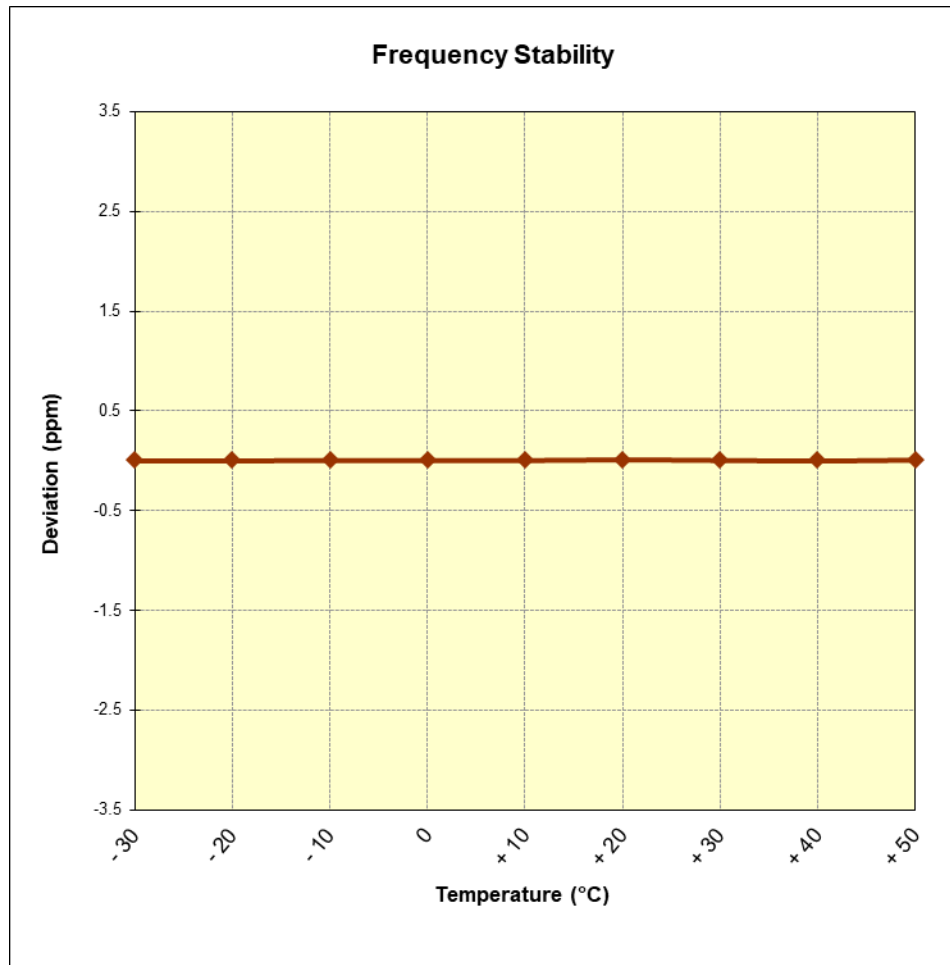
**Table 7-43. Frequency Stability Data (Band 12/17)**

### 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: BCG-A2094                       |  <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019                                                                                        | EUT Type:<br>Watch | Page 224 of 238                 |

## Band 12/17 Frequency Stability Measurements



**Figure 7-9. Frequency Stability Graph (Band 12/17)**

|                                                |                                                                                                                                   |                           |                                        |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------------------------|
| <b>FCC ID:</b> BCG-A2094                       |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                           | <b>Approved by:</b><br>Quality Manager |
| <b>Test Report S/N:</b><br>1C1905130008-03.BCG | <b>Test Dates:</b><br>05/01/2019 - 08/01/2019                                                                                     | <b>EUT Type:</b><br>Watch | Page 225 of 238                        |

## 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        | - 30      | 782,000,006    | 6               | 0.0000007     |
| 100 %          |             | - 20      | 782,000,006    | 6               | 0.0000008     |
| 100 %          |             | - 10      | 782,000,005    | 5               | 0.0000007     |
| 100 %          |             | 0         | 782,000,005    | 5               | 0.0000007     |
| 100 %          |             | + 10      | 782,000,006    | 6               | 0.0000008     |
| 100 %          |             | + 20      | 782,000,005    | 5               | 0.0000007     |
| 100 %          |             | + 30      | 782,000,005    | 5               | 0.0000007     |
| 100 %          |             | + 40      | 782,000,006    | 6               | 0.0000008     |
| 100 %          |             | + 50      | 782,000,006    | 6               | 0.0000007     |
| BATT. ENDPOINT | 3.40        | + 20      | 782,000,006    | 6               | 0.0000007     |

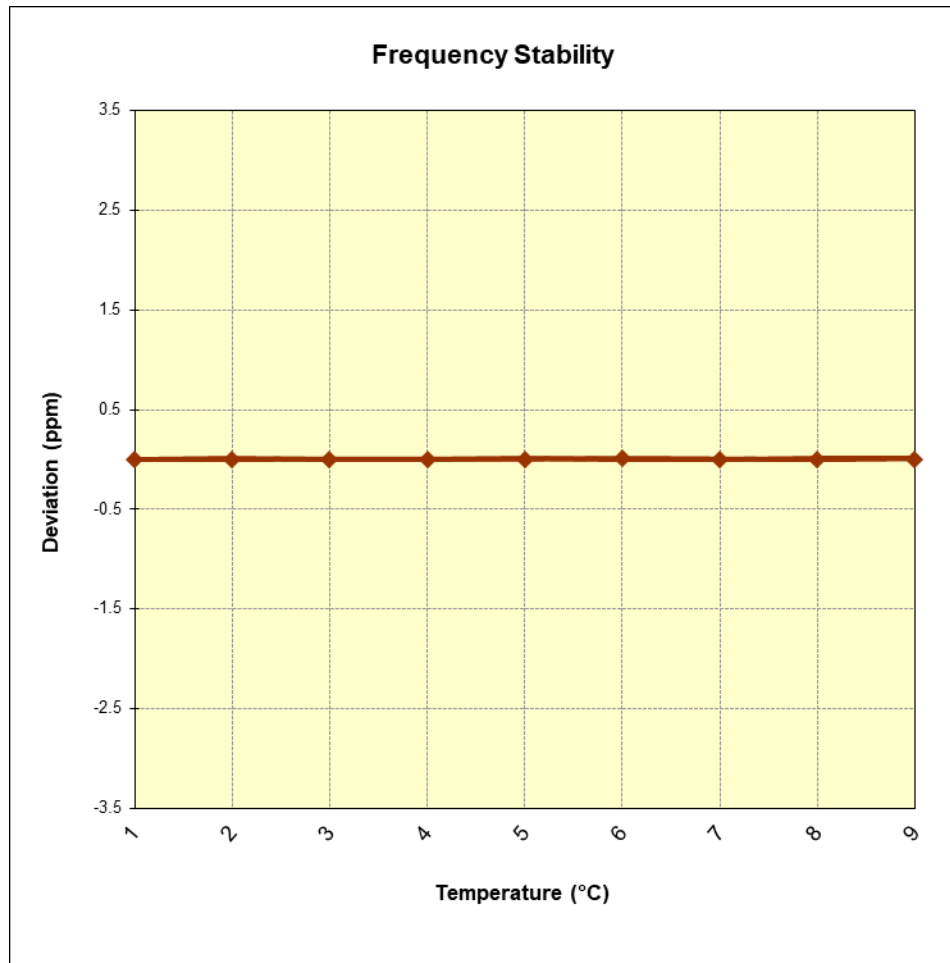
**Table 7-44. Frequency Stability Data (Band 13)**

### 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: BCG-A2094                       |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019                                                                                            | EUT Type:<br>Watch | Page 226 of 238                 |

## Band 13 Frequency Stability Measurements



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

|                                                |                                                                                                                                   |                           |                                        |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------------------------|
| <b>FCC ID:</b> BCG-A2094                       |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                           | <b>Approved by:</b><br>Quality Manager |
| <b>Test Report S/N:</b><br>1C1905130008-03.BCG | <b>Test Dates:</b><br>05/01/2019 - 08/01/2019                                                                                     | <b>EUT Type:</b><br>Watch | Page 227 of 238                        |

## Band 26/5 Frequency Stability Measurements

OPERATING FREQUENCY: 836,500,000 Hz

CHANNEL: 26865

REFERENCE VOLTAGE: 3.80 VDC

DEVIATION LIMIT:  $\pm 0.00025$  % or 2.5 ppm

| VOLTAGE (%)    | POWER (VDC) | TEMP (°C) | FREQUENCY (Hz) | Freq. Dev. (Hz) | Deviation (%) |
|----------------|-------------|-----------|----------------|-----------------|---------------|
| 100 %          | 3.80        | - 30      | 836,500,005    | 5               | 0.0000006     |
| 100 %          |             | - 20      | 836,500,004    | 4               | 0.0000005     |
| 100 %          |             | - 10      | 836,500,005    | 5               | 0.0000005     |
| 100 %          |             | 0         | 836,500,005    | 5               | 0.0000005     |
| 100 %          |             | + 10      | 836,500,005    | 5               | 0.0000006     |
| 100 %          |             | + 20      | 836,500,005    | 5               | 0.0000006     |
| 100 %          |             | + 30      | 836,500,004    | 4               | 0.0000005     |
| 100 %          |             | + 40      | 836,500,005    | 5               | 0.0000006     |
| 100 %          |             | + 50      | 836,500,005    | 5               | 0.0000006     |
| BATT. ENDPOINT | 3.40        | + 20      | 836,500,006    | 6               | 0.0000008     |

Table 7-45. Frequency Stability Data (Band 26/5)

|                                         |                                                                                                                               |                    |                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       |  <b>MEASUREMENT REPORT (CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019                                                                                        | EUT Type:<br>Watch | Page 228 of 238                 |

## Band 26/5 Frequency Stability Measurements

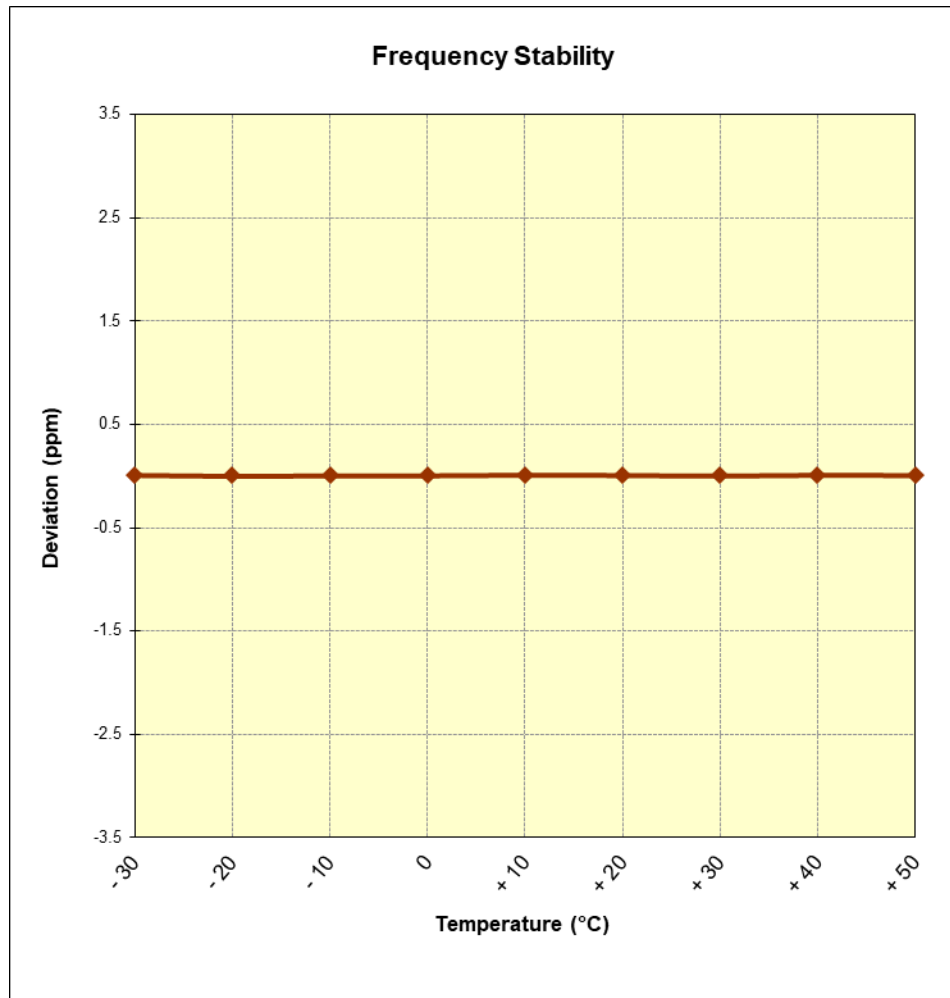


Figure 7-11. Frequency Stability Graph (Band 26/5)

|                                         |                                                                                                                                   |                    |                                 |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019                                                                                            | EUT Type:<br>Watch | Page 229 of 238                 |

## Band 66/4 Frequency Stability Measurements

OPERATING FREQUENCY: 1,745,000,000 Hz  
 CHANNEL: 132322  
 REFERENCE VOLTAGE: 3.80 VDC

| VOLTAGE (%)    | POWER (VDC) | TEMP (°C) | FREQUENCY (Hz) | Freq. Dev. (Hz) | Deviation (%) |
|----------------|-------------|-----------|----------------|-----------------|---------------|
| 100 %          | 3.80        | - 30      | 1,744,999,995  | -5              | -0.0000003    |
| 100 %          |             | - 20      | 1,745,000,004  | 4               | 0.0000002     |
| 100 %          |             | - 10      | 1,745,000,005  | 5               | 0.0000003     |
| 100 %          |             | 0         | 1,745,000,006  | 6               | 0.0000003     |
| 100 %          |             | + 10      | 1,744,999,994  | -6              | -0.0000003    |
| 100 %          |             | + 20      | 1,744,999,994  | -6              | -0.0000004    |
| 100 %          |             | + 30      | 1,744,999,993  | -7              | -0.0000004    |
| 100 %          |             | + 40      | 1,745,000,007  | 7               | 0.0000004     |
| 100 %          |             | + 50      | 1,745,000,007  | 7               | 0.0000004     |
| BATT. ENDPOINT | 3.40        | + 20      | 1,745,000,006  | 6               | 0.0000003     |

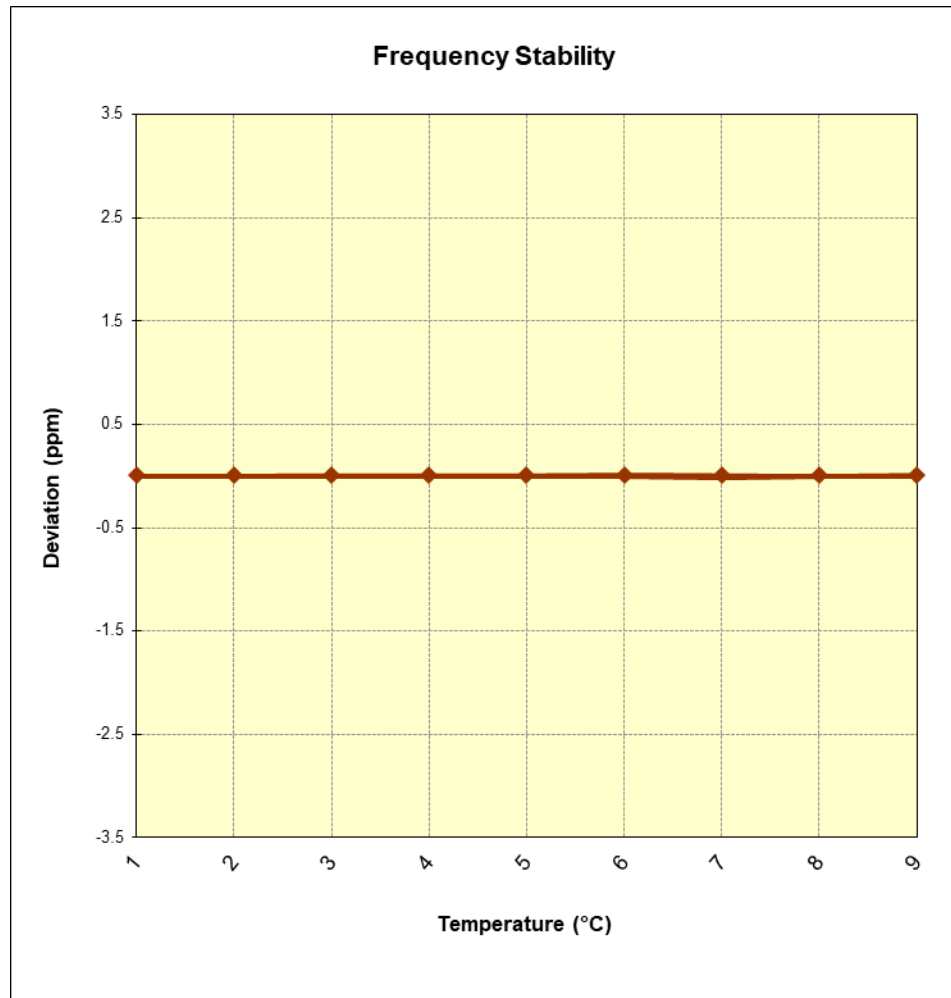
**Table 7-46. Frequency Stability Data (Band 66/4)**

### 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: BCG-A2094                       |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019                                                                                            | EUT Type:<br>Watch | Page 230 of 238                 |

## Band 66/4 Frequency Stability Measurements



**Figure 7-12. Frequency Stability Graph (Band 66/4)**

|                                                |                                                                                                                                   |                           |                                        |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------------------------|
| <b>FCC ID:</b> BCG-A2094                       |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                           | <b>Approved by:</b><br>Quality Manager |
| <b>Test Report S/N:</b><br>1C1905130008-03.BCG | <b>Test Dates:</b><br>05/01/2019 - 08/01/2019                                                                                     | <b>EUT Type:</b><br>Watch | Page 231 of 238                        |

## Band 25/2 Frequency Stability Measurements

OPERATING FREQUENCY: 1,882,500,000 Hz  
 CHANNEL: 26365  
 REFERENCE VOLTAGE: 3.80 VDC

| VOLTAGE (%)    | POWER (VDC) | TEMP (°C) | FREQUENCY (Hz) | Freq. Dev. (Hz) | Deviation (%) |
|----------------|-------------|-----------|----------------|-----------------|---------------|
| 100 %          | 3.80        | - 30      | 1,882,500,005  | 5               | 0.0000003     |
| 100 %          |             | - 20      | 1,882,500,005  | 5               | 0.0000003     |
| 100 %          |             | - 10      | 1,882,500,005  | 5               | 0.0000003     |
| 100 %          |             | 0         | 1,882,500,006  | 6               | 0.0000003     |
| 100 %          |             | + 10      | 1,882,500,007  | 7               | 0.0000004     |
| 100 %          |             | + 20      | 1,882,500,007  | 7               | 0.0000004     |
| 100 %          |             | + 30      | 1,882,500,007  | 7               | 0.0000004     |
| 100 %          |             | + 40      | 1,882,500,008  | 8               | 0.0000004     |
| 100 %          |             | + 50      | 1,882,500,008  | 8               | 0.0000004     |
| BATT. ENDPOINT | 3.40        | + 20      | 1,882,499,994  | -6              | -0.0000003    |

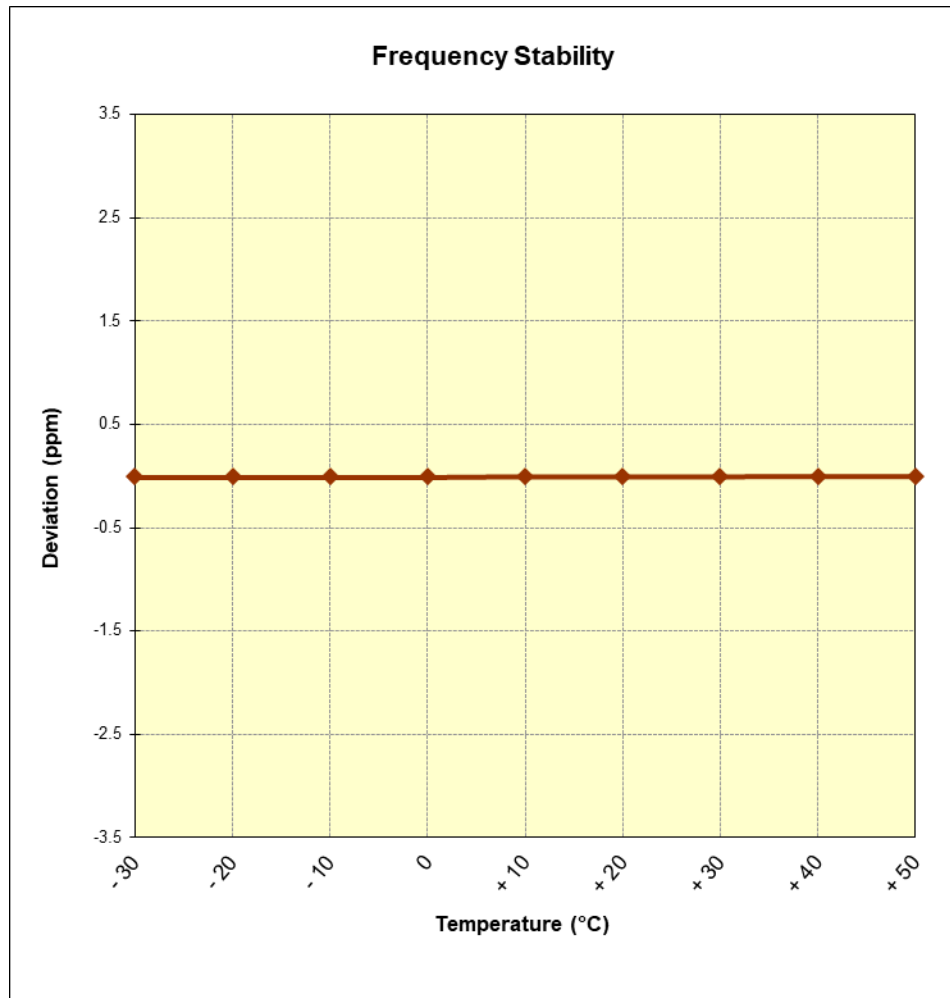
Table 7-47. Frequency Stability Data (Band 25/2)

### 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: BCG-A2094                       |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019                                                                                            | EUT Type:<br>Watch | Page 232 of 238                 |

## Band 25/2 Frequency Stability Measurements



**Figure 7-13. Frequency Stability Graph (Band 25/2)**

|                                                |                                                                                     |                                               |                                        |
|------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------|----------------------------------------|
| <b>FCC ID:</b> BCG-A2094                       |  | <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> | <b>Approved by:</b><br>Quality Manager |
| <b>Test Report S/N:</b><br>1C1905130008-03.BCG | <b>Test Dates:</b><br>05/01/2019 - 08/01/2019                                       | <b>EUT Type:</b><br>Watch                     | Page 233 of 238                        |

## 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        | - 30      | 2,535,000,006  | 6               | 0.0000003     |
| 100 %          |             | - 20      | 2,535,000,011  | 11              | 0.0000004     |
| 100 %          |             | - 10      | 2,535,000,009  | 9               | 0.0000004     |
| 100 %          |             | 0         | 2,535,000,009  | 9               | 0.0000004     |
| 100 %          |             | + 10      | 2,535,000,010  | 10              | 0.0000004     |
| 100 %          |             | + 20      | 2,535,000,011  | 11              | 0.0000004     |
| 100 %          |             | + 30      | 2,535,000,011  | 11              | 0.0000004     |
| 100 %          |             | + 40      | 2,535,000,011  | 11              | 0.0000004     |
| 100 %          |             | + 50      | 2,535,000,013  | 13              | 0.0000005     |
| BATT. ENDPOINT | 3.40        | + 20      | 2,535,000,011  | 11              | 0.0000004     |

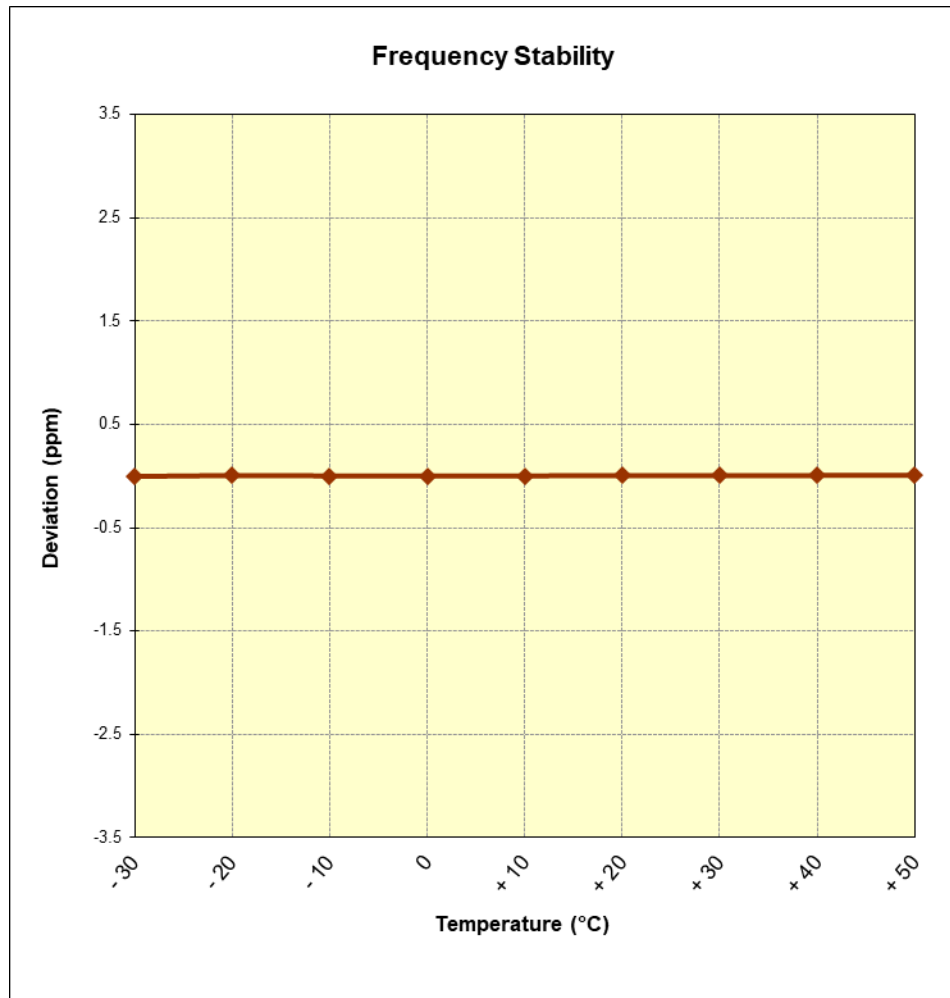
Table 7-48. Frequency Stability Data (Band 7)

### 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: BCG-A2094                       |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019                                                                                            | EUT Type:<br>Watch | Page 234 of 238                 |

## Band 7 Frequency Stability Measurements



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

|                                                |                                                                                                                                   |                           |                                        |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------------------------|
| <b>FCC ID:</b> BCG-A2094                       |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                           | <b>Approved by:</b><br>Quality Manager |
| <b>Test Report S/N:</b><br>1C1905130008-03.BCG | <b>Test Dates:</b><br>05/01/2019 - 08/01/2019                                                                                     | <b>EUT Type:</b><br>Watch | Page 235 of 238                        |

## 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        | - 30      | 2,593,000,023  | 23              | 0.0000009     |
| 100 %          |             | - 20      | 2,593,000,023  | 23              | 0.0000009     |
| 100 %          |             | - 10      | 2,593,000,021  | 21              | 0.0000008     |
| 100 %          |             | 0         | 2,593,000,023  | 23              | 0.0000009     |
| 100 %          |             | + 10      | 2,593,000,021  | 21              | 0.0000008     |
| 100 %          |             | + 20      | 2,593,000,025  | 25              | 0.0000010     |
| 100 %          |             | + 30      | 2,593,000,027  | 27              | 0.0000010     |
| 100 %          |             | + 40      | 2,593,000,025  | 25              | 0.0000010     |
| 100 %          |             | + 50      | 2,593,000,026  | 26              | 0.0000010     |
| BATT. ENDPOINT | 3.40        | + 20      | 2,593,000,054  | 54              | 0.0000021     |

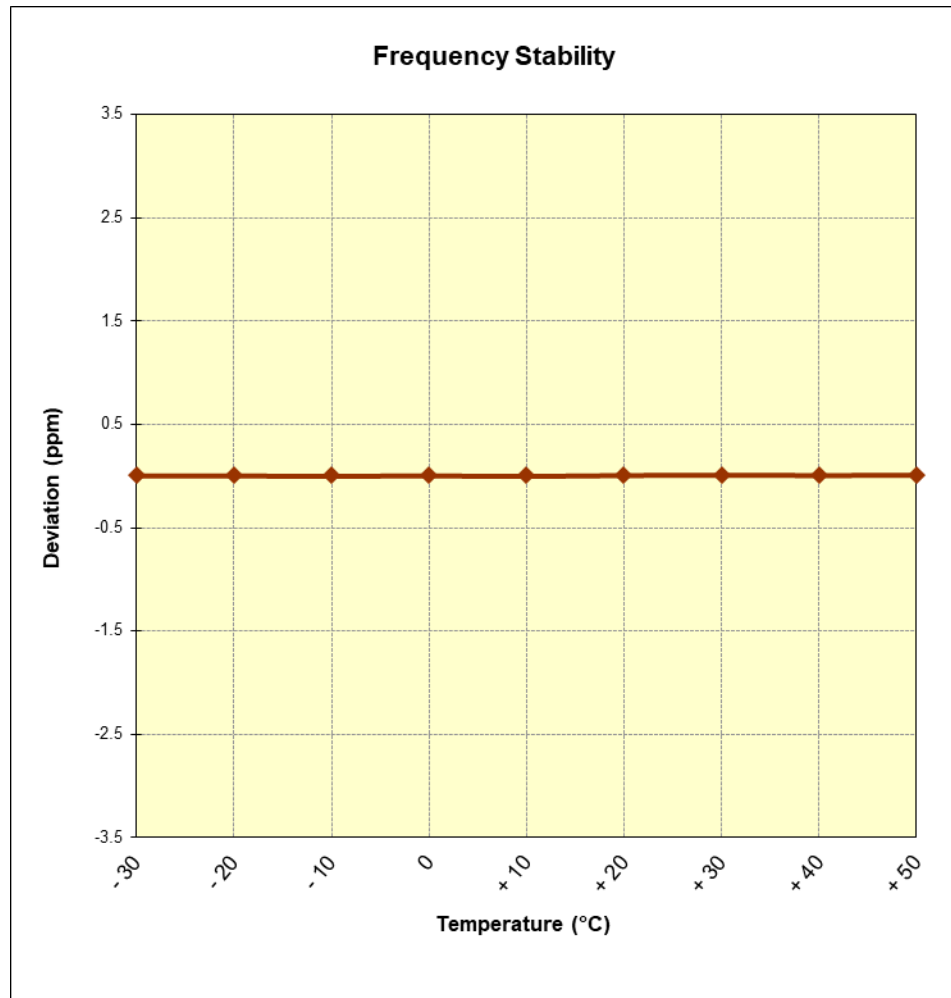
**Table 7-49. Frequency Stability Data (Band 41)**

### 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: BCG-A2094                       |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019                                                                                            | EUT Type:<br>Watch | Page 236 of 238                 |

## Band 41 Frequency Stability Measurements



**Figure 7-15. Frequency Stability Graph (Band 41)**

|                                                |                                                                                                                                   |                           |                                        |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------------------------|
| <b>FCC ID:</b> BCG-A2094                       |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                           | <b>Approved by:</b><br>Quality Manager |
| <b>Test Report S/N:</b><br>1C1905130008-03.BCG | <b>Test Dates:</b><br>05/01/2019 - 08/01/2019                                                                                     | <b>EUT Type:</b><br>Watch | Page 237 of 238                        |

## 8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Apple Watch FCC ID: BCG-A2094** complies with all the requirements of Part 22, 24, & 27 of the FCC Rules for LTE operation only.

|                                         |                                                                                                                                   |                    |                                 |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------|
| FCC ID: BCG-A2094                       |  <b>MEASUREMENT REPORT<br/>(CERTIFICATION)</b> |                    | Approved by:<br>Quality Manager |
| Test Report S/N:<br>1C1905130008-03.BCG | Test Dates:<br>05/01/2019 - 08/01/2019                                                                                            | EUT Type:<br>Watch | Page 238 of 238                 |