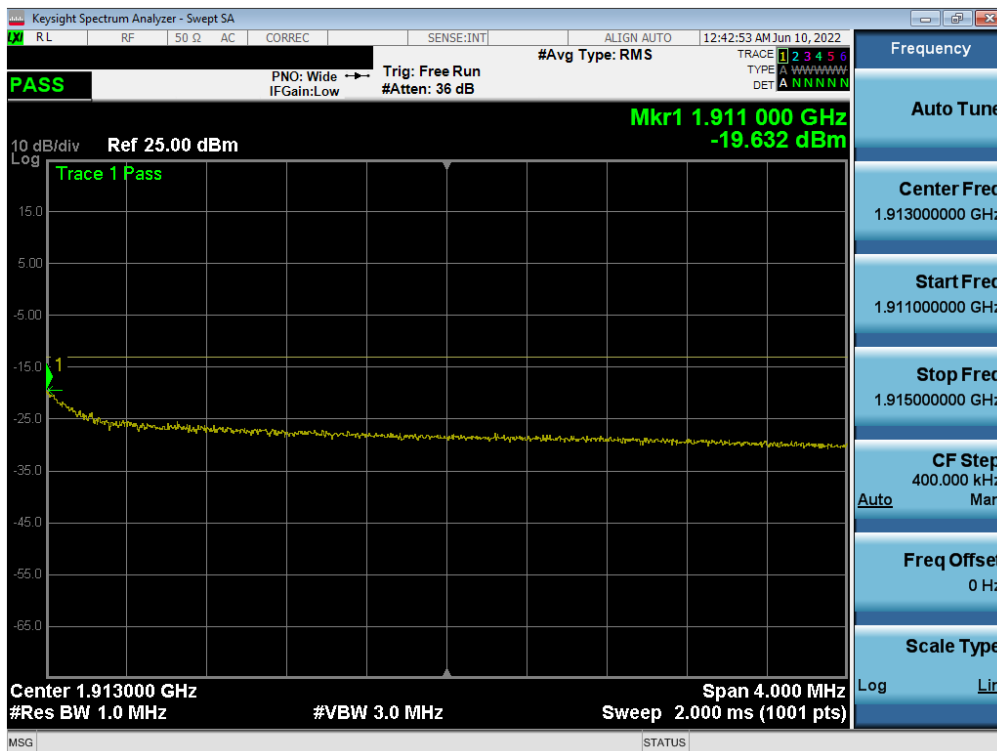


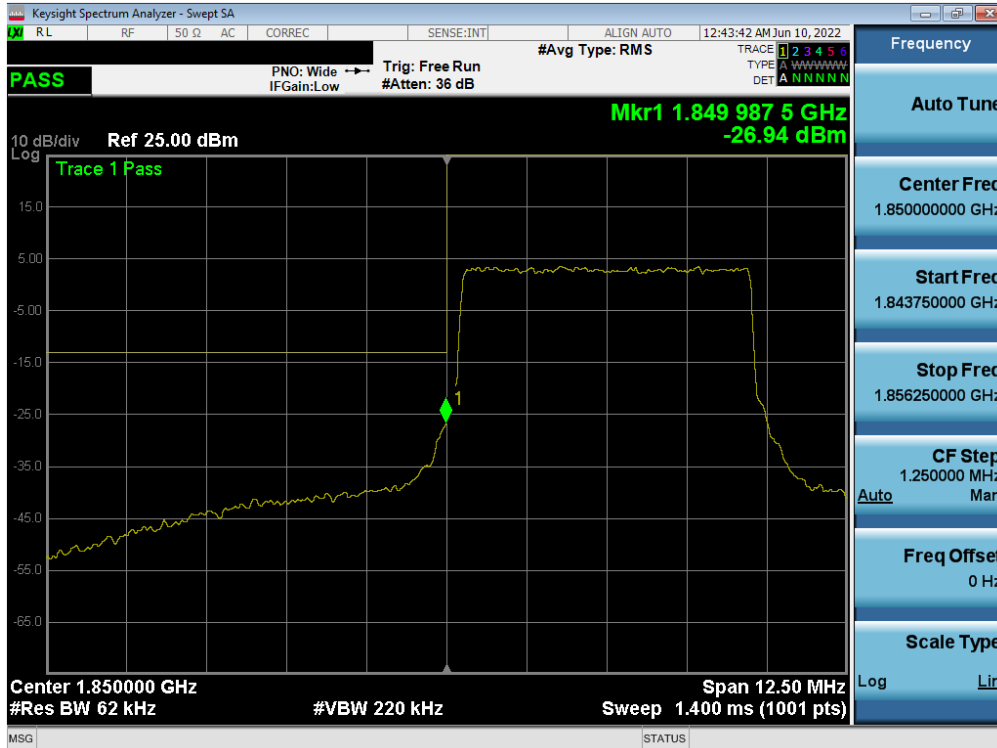


Plot 7-116. Upper Band Edge Plot (NR Band n2 – 10.0MHz - Full RB)

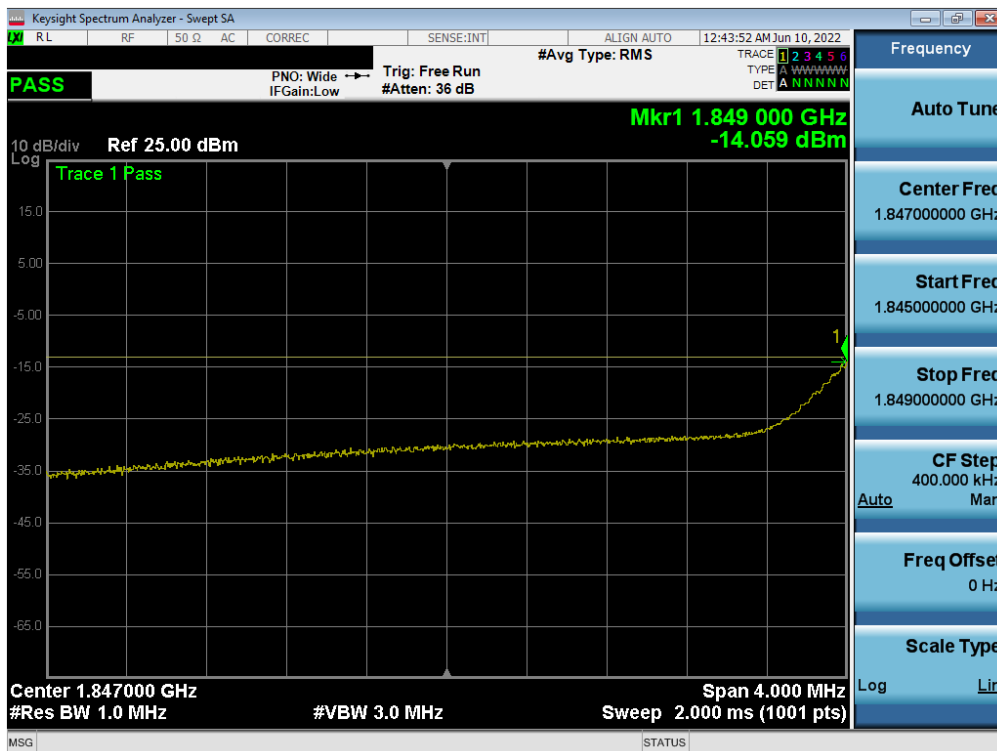


Plot 7-117. Upper Extended Band Edge Plot (NR Band n2 – 10.0MHz - Full RB)

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: PY7-76056F | PART 24 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2205240063-05.PY7 | Test Dates: 06/02/2022 - 08/08/2022 | EUT Type: Portable Handset | Page 78 of 118 |



Plot 7-118. Lower Band Edge Plot (NR Band n2 – 5.0MHz - Full RB)

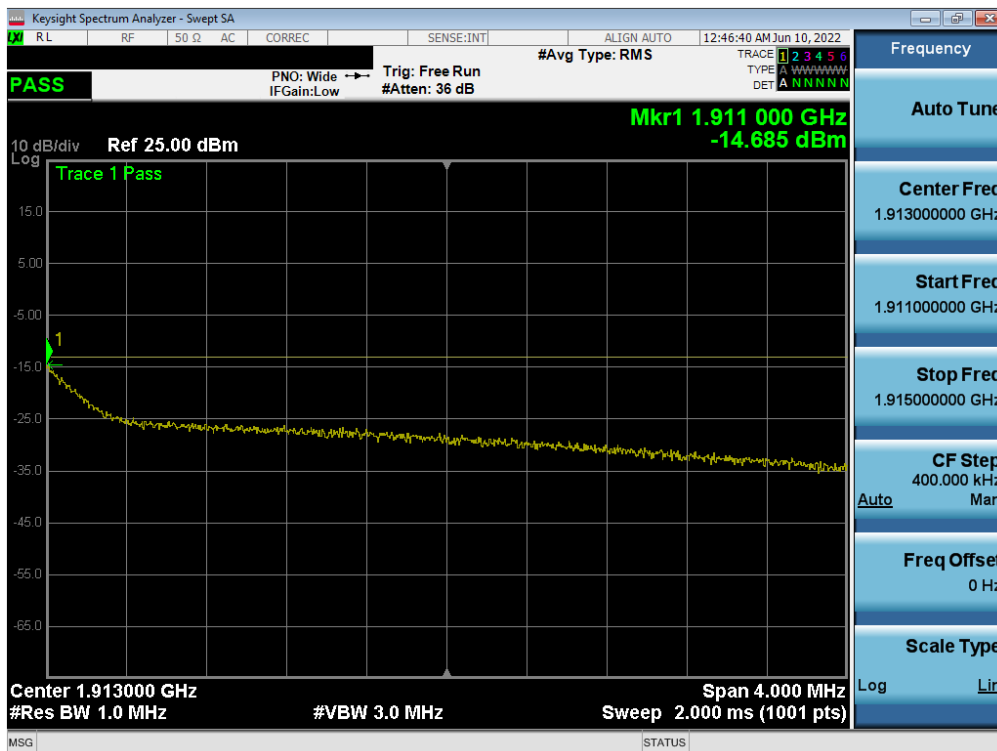


Plot 7-119. Lower Extended Band Edge Plot (NR Band n2 – 5.0MHz - Full RB)

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: PY7-76056F | PART 24 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2205240063-05.PY7 | Test Dates: 06/02/2022 - 08/08/2022 | EUT Type: Portable Handset | Page 79 of 118 |



Plot 7-120. Upper Band Edge Plot (NR Band n2 – 5.0MHz - Full RB)



Plot 7-121. Upper Extended Band Edge Plot (NR Band n2 – 5.0MHz - Full RB)

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: PY7-76056F | PART 24 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2205240063-05.PY7 | Test Dates: 06/02/2022 - 08/08/2022 | EUT Type: Portable Handset | Page 80 of 118 |

7.6 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.

The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB.

Test Procedure Used

ANSI C63.26-2015 – Section 5.2.3.4

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.

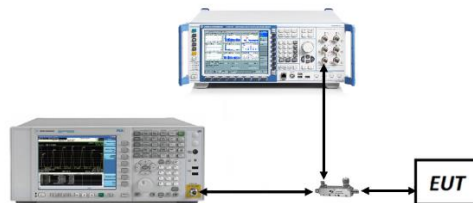


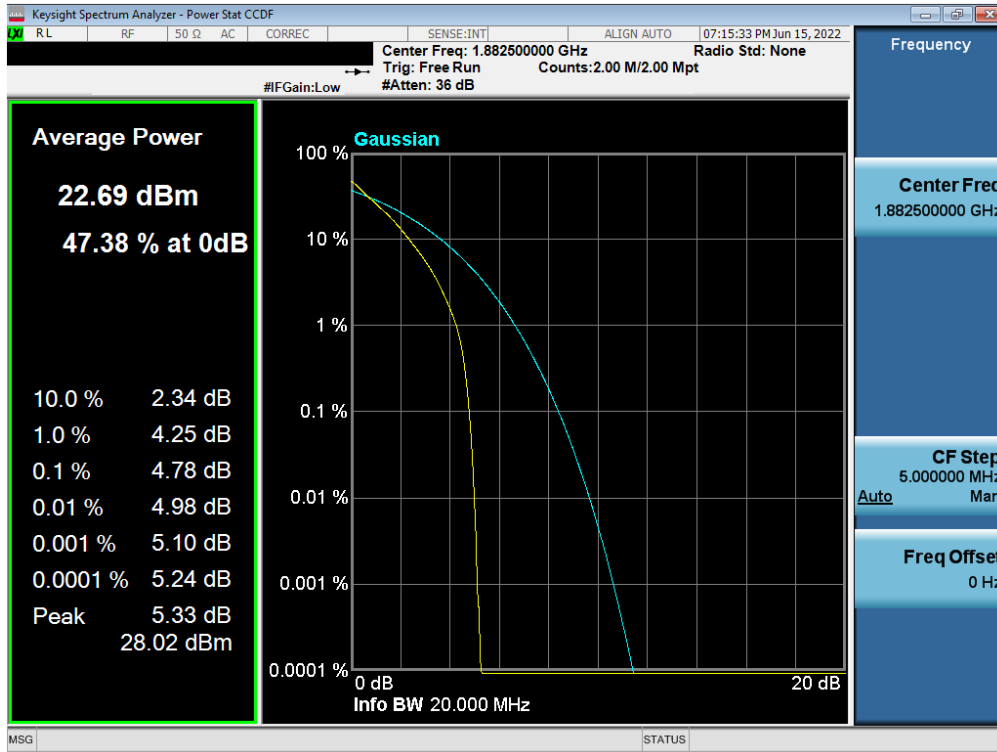
Figure 7-5. Test Instrument & Measurement Setup

Test Notes

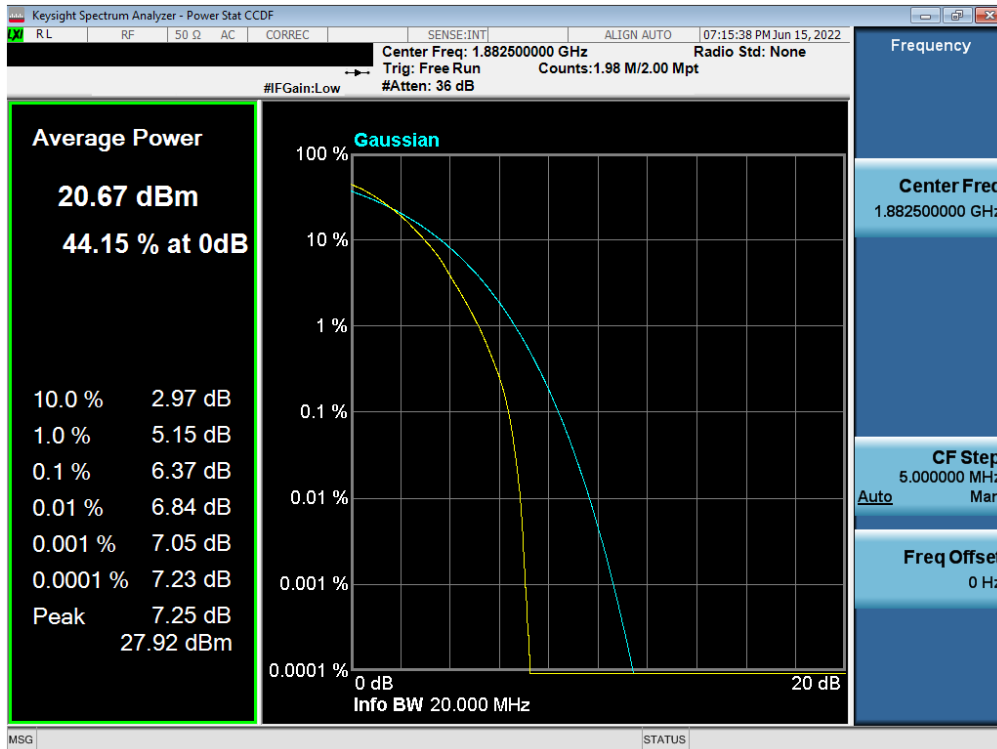
None.

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: PY7-76056F | PART 24 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2205240063-05.PY7 | Test Dates: 06/02/2022 - 08/08/2022 | EUT Type: Portable Handset | Page 81 of 118 |

LTE Band 25/2

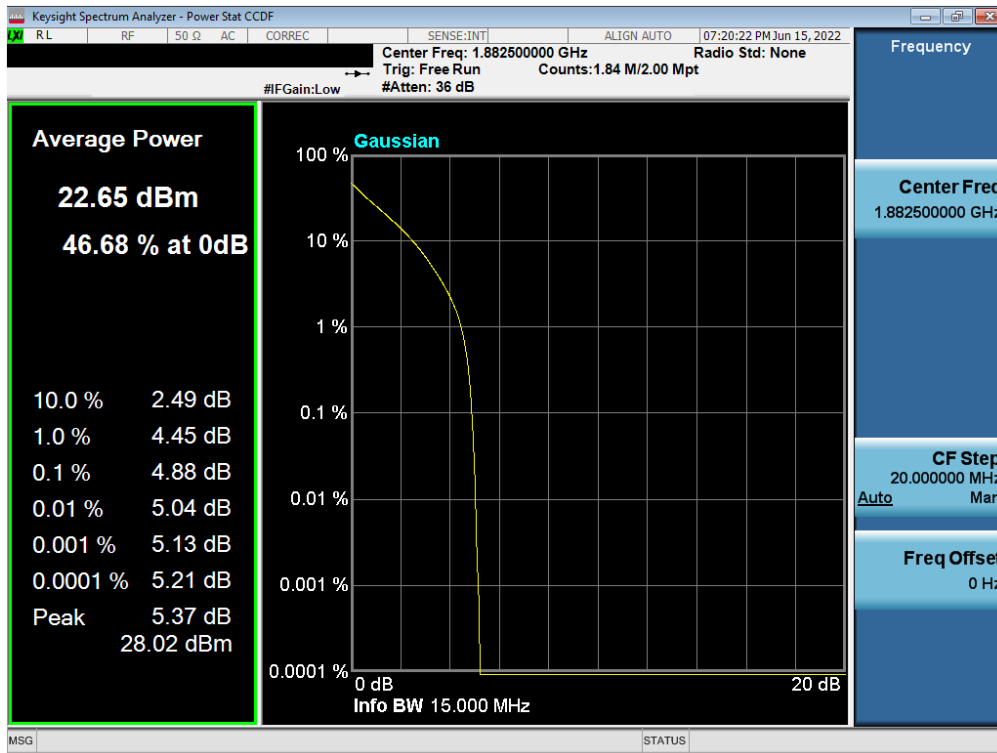


Plot 7-122. PAR Plot (LTE Band 25/2 - 20MHz QPSK - Full RB)

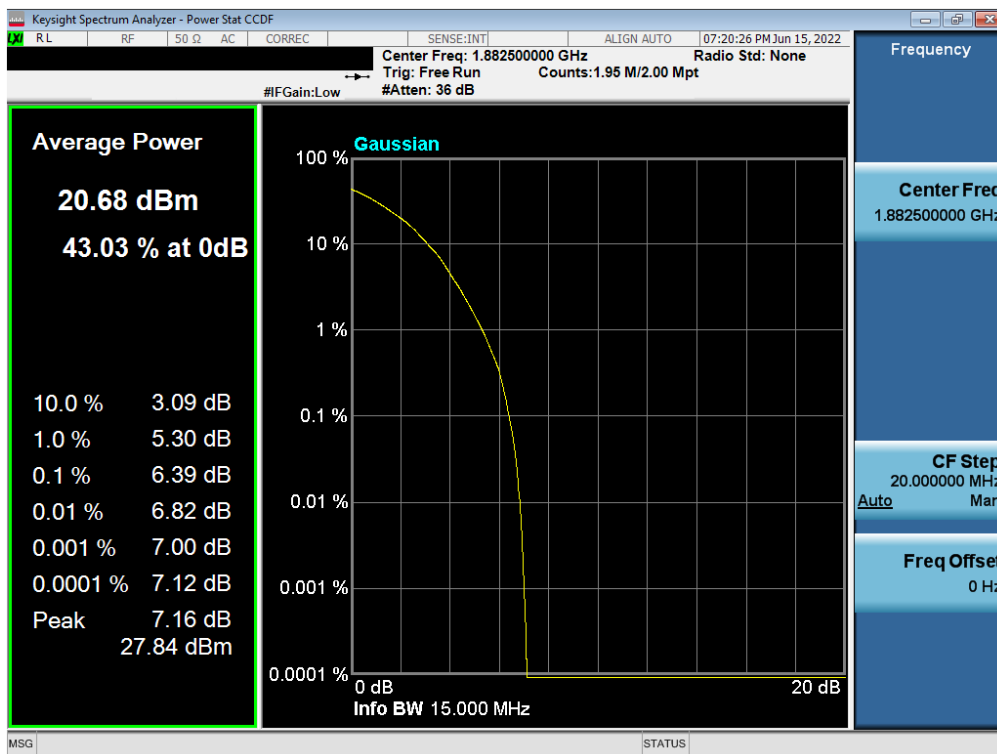


Plot 7-123. PAR Plot (LTE Band 25/2 - 20MHz 64-QAM - Full RB)

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: PY7-76056F | PART 24 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2205240063-05.PY7 | Test Dates: 06/02/2022 - 08/08/2022 | EUT Type: Portable Handset | Page 82 of 118 |

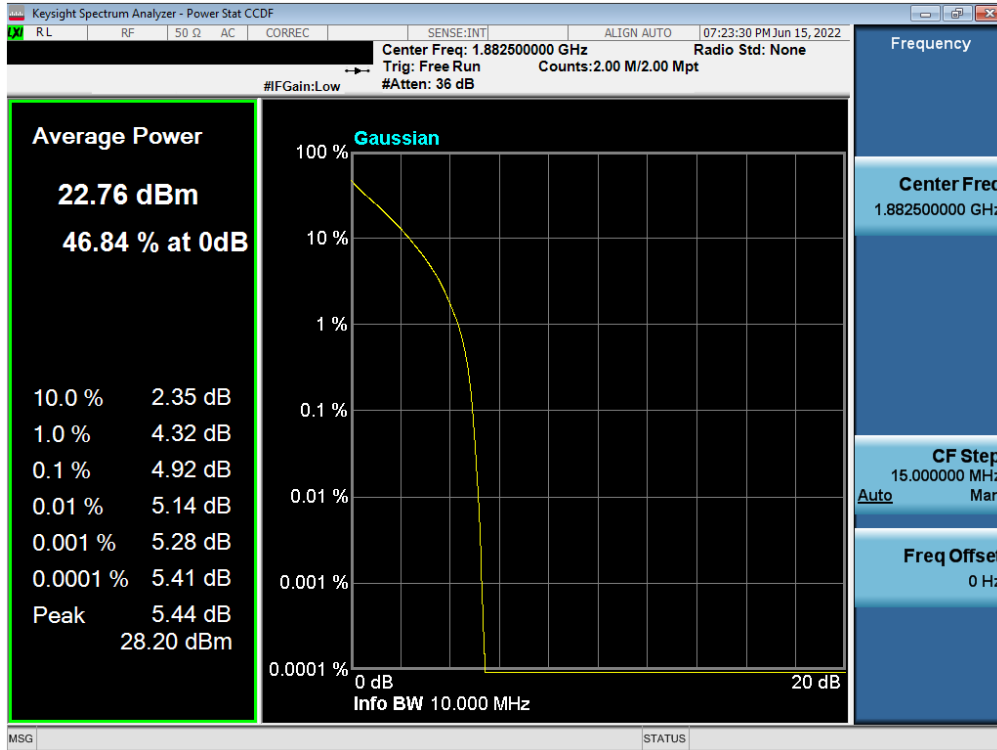


Plot 7-124. PAR Plot (LTE Band 25/2 - 15MHz QPSK - Full RB)

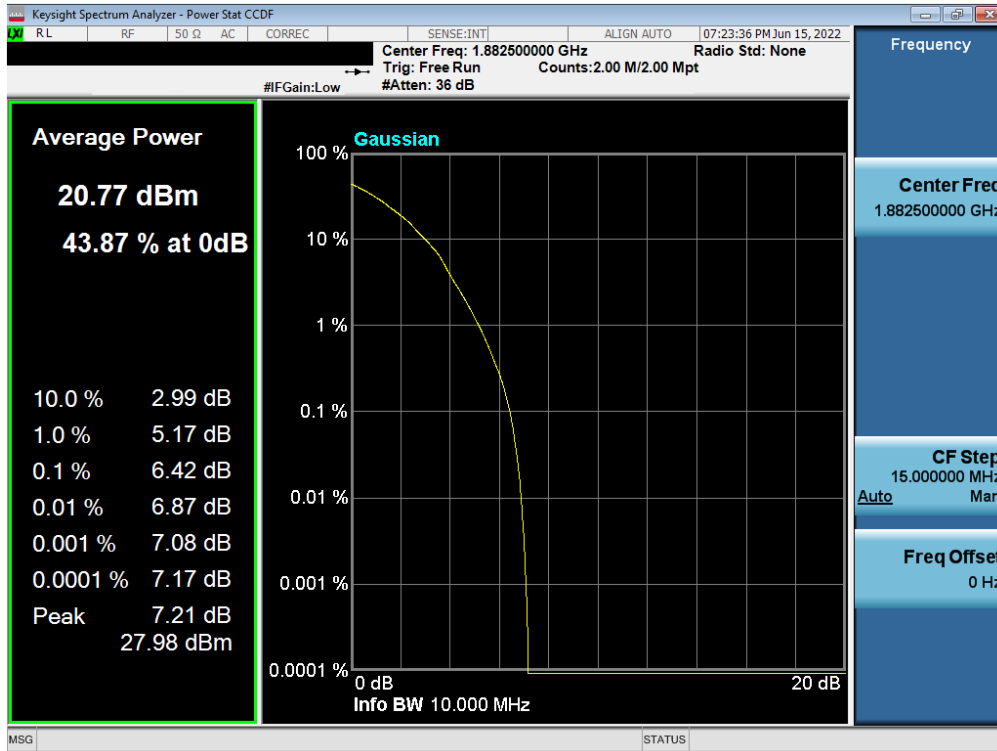


Plot 7-125. PAR Plot (LTE Band 25/2 - 15MHz 64-QAM - Full RB)

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: PY7-76056F | PART 24 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2205240063-05.PY7 | Test Dates: 06/02/2022 - 08/08/2022 | EUT Type: Portable Handset | Page 83 of 118 |

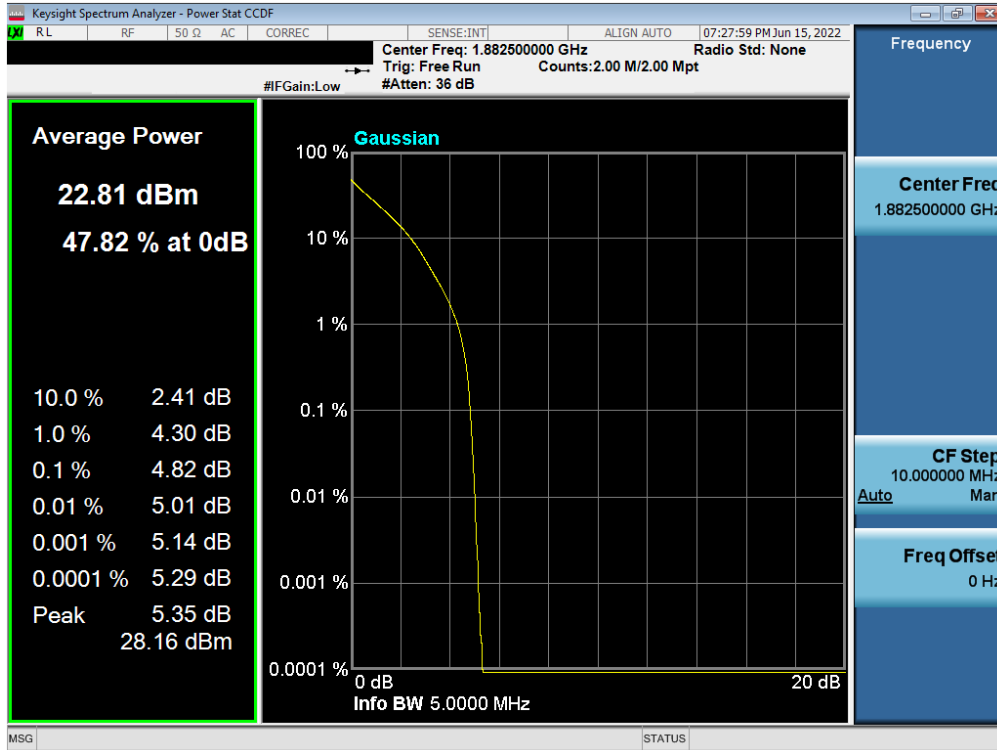


Plot 7-126. PAR Plot (LTE Band 25/2 - 10MHz QPSK - Full RB)

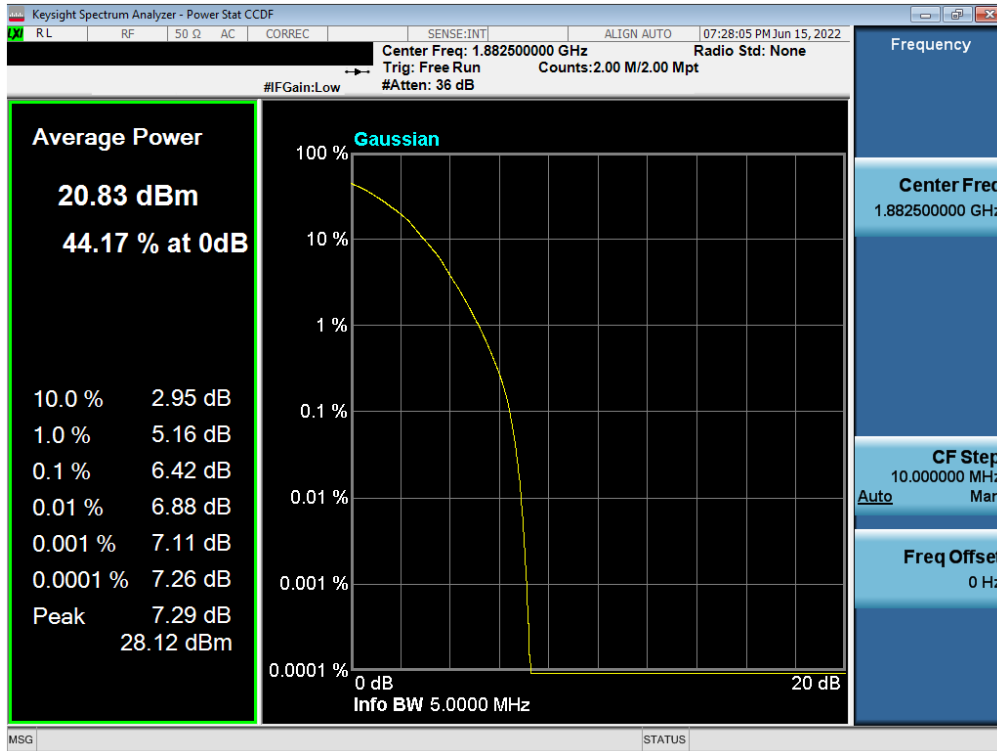


Plot 7-127. PAR Plot (LTE Band 25/2 - 10MHz 64-QAM - Full RB)

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: PY7-76056F | PART 24 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2205240063-05.PY7 | Test Dates: 06/02/2022 - 08/08/2022 | EUT Type: Portable Handset | Page 84 of 118 |

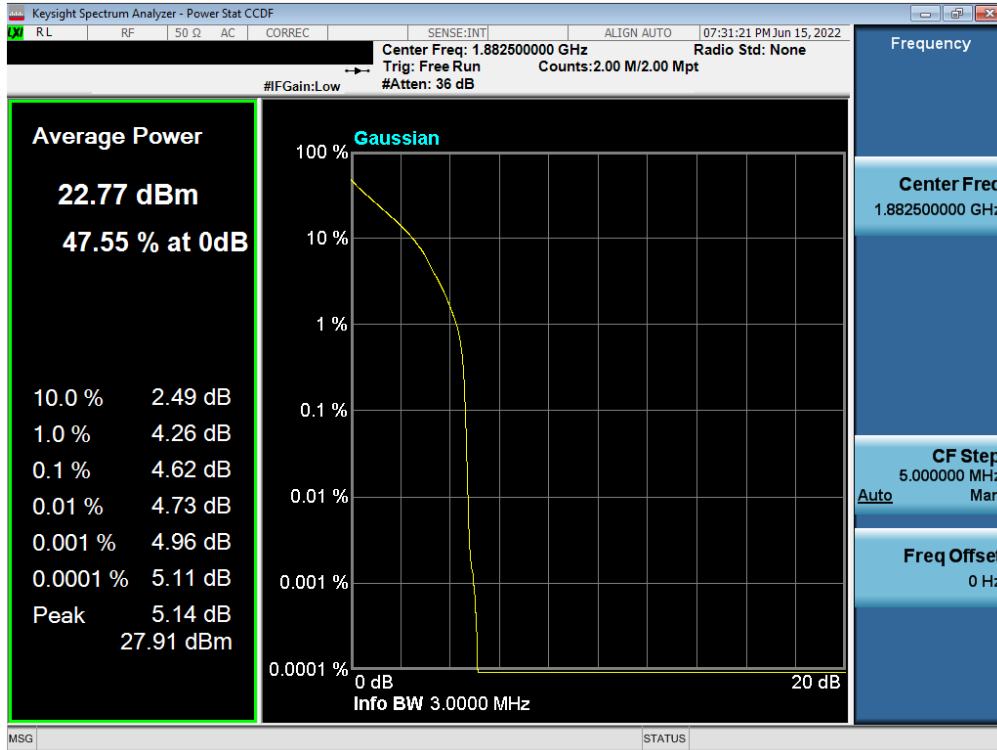


Plot 7-128. PAR Plot (LTE Band 25/2 - 5MHz QPSK - Full RB)

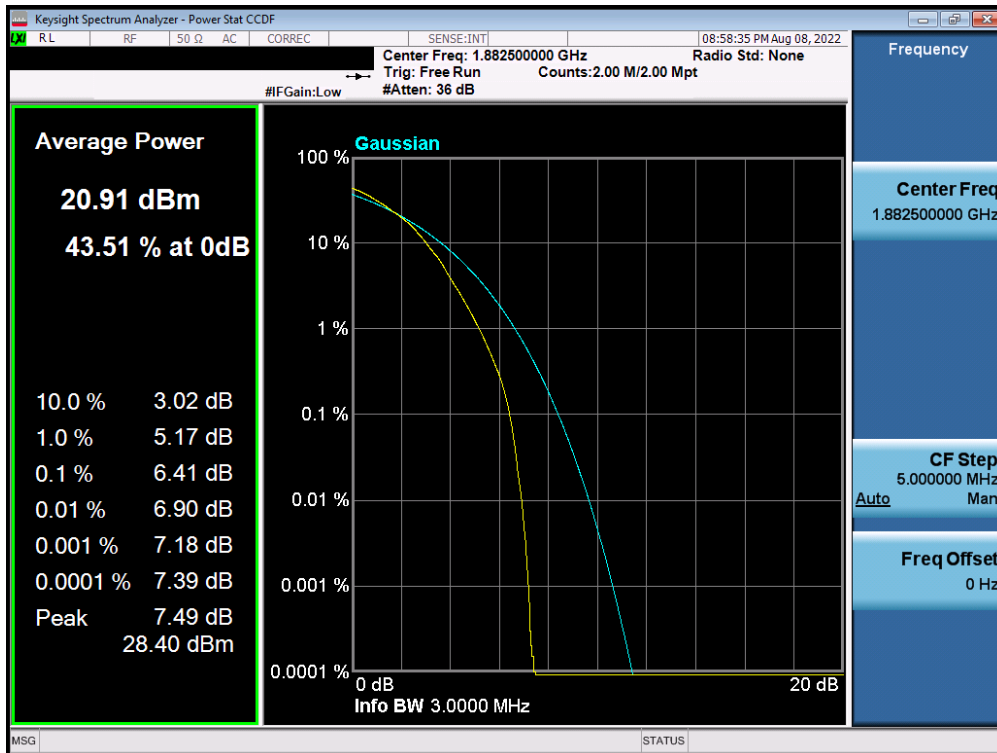


Plot 7-129. PAR Plot (LTE Band 25/2 - 5MHz 64-QAM - Full RB)

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: PY7-76056F | PART 24 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2205240063-05.PY7 | Test Dates: 06/02/2022 - 08/08/2022 | EUT Type: Portable Handset | Page 85 of 118 |

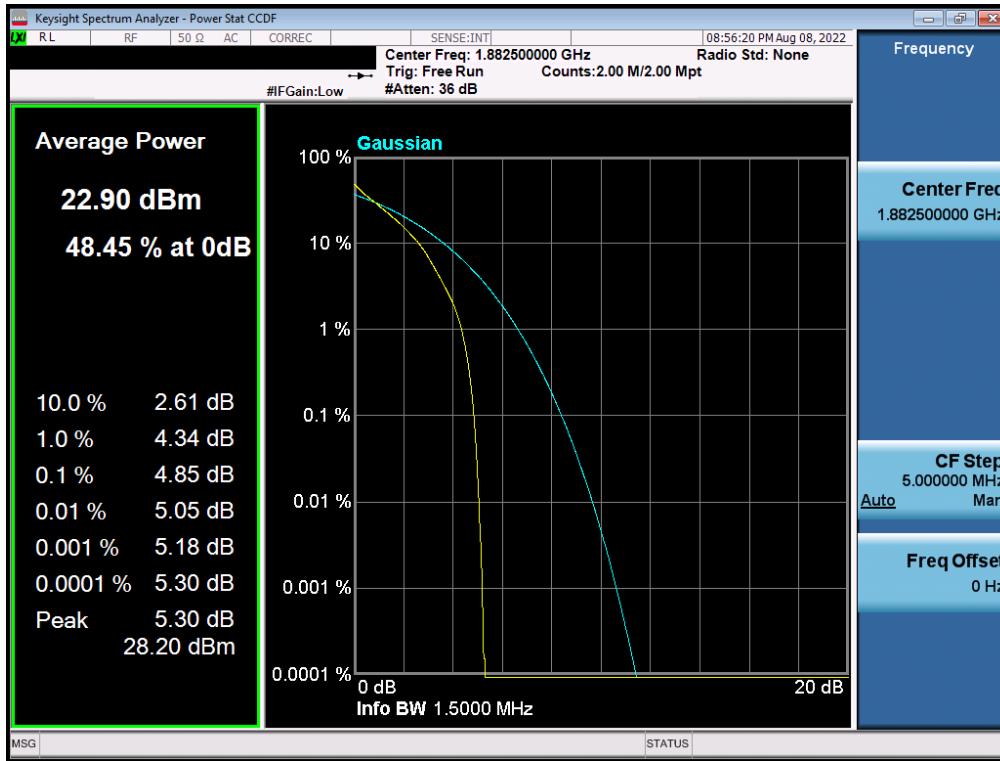


Plot 7-130. PAR Plot (LTE Band 25/2 - 3MHz QPSK - Full RB)

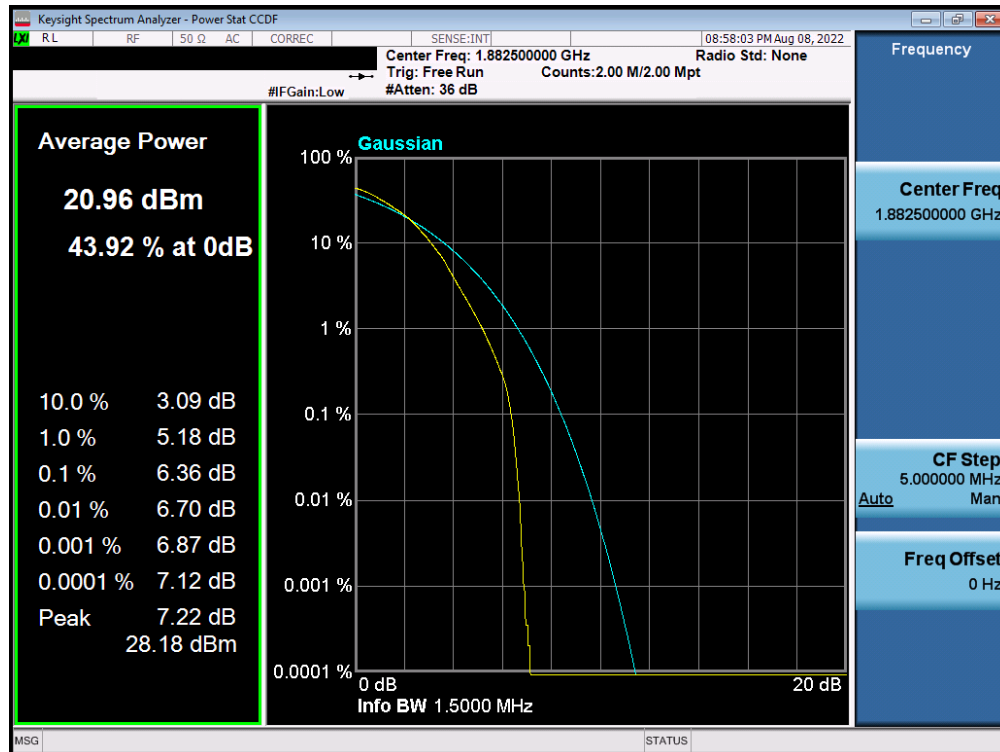


Plot 7-131. PAR Plot (LTE Band 25/2 - 3MHz 64-QAM - Full RB)

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: PY7-76056F | PART 24 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2205240063-05.PY7 | Test Dates: 06/02/2022 - 08/08/2022 | EUT Type: Portable Handset | Page 86 of 118 |



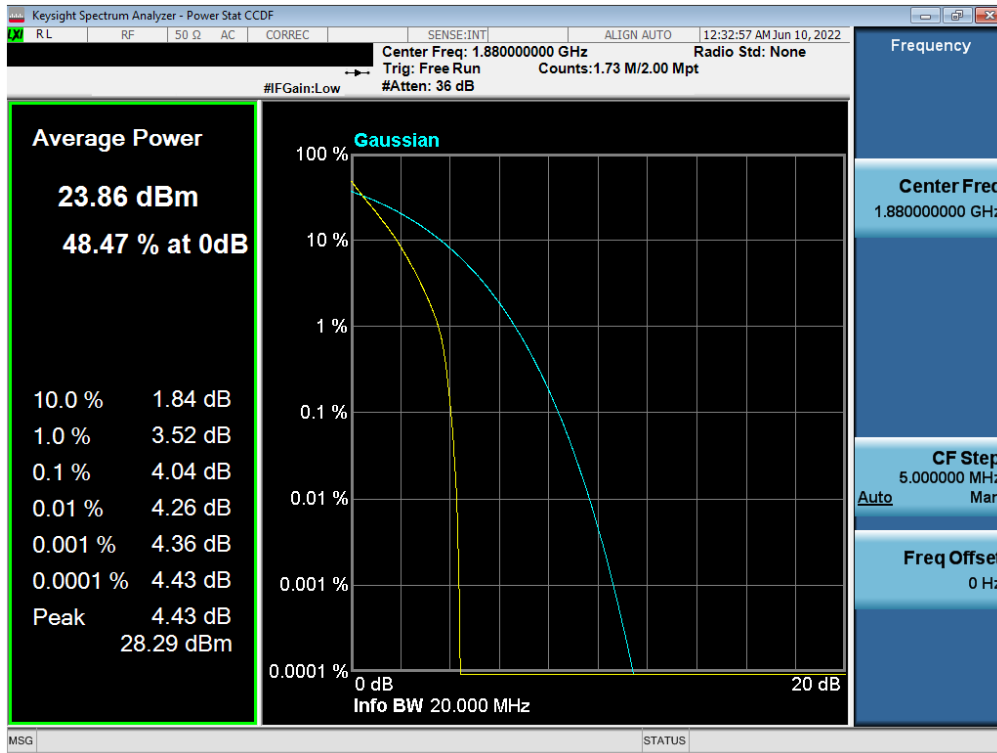
Plot 7-132. PAR Plot (LTE Band 25/2 - 1.4MHz QPSK - Full RB)



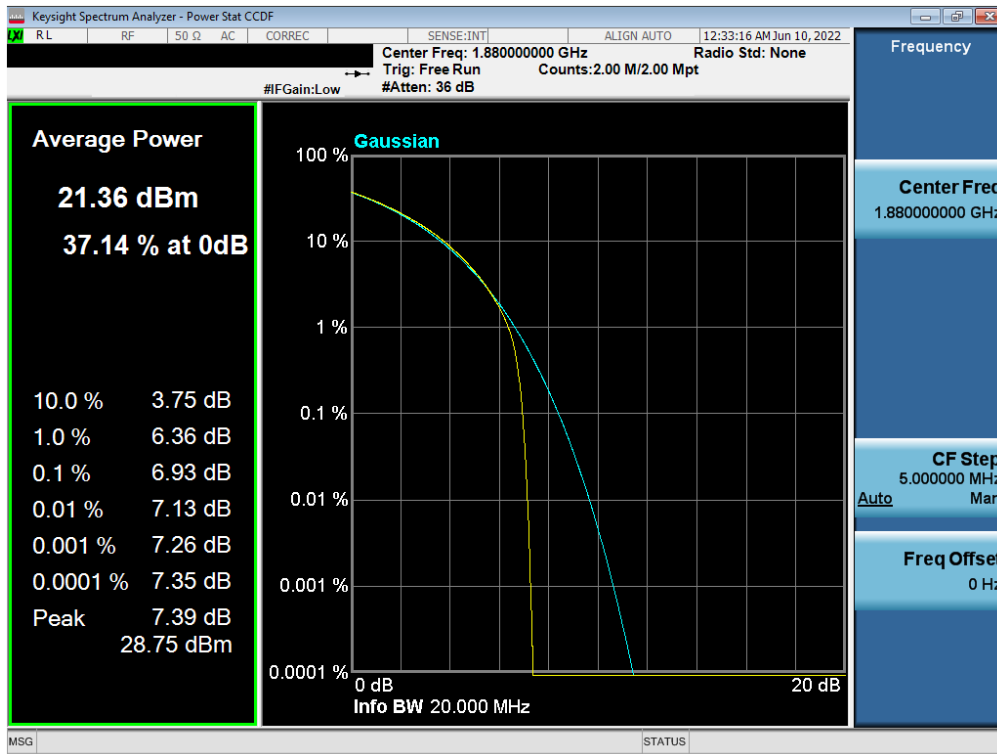
Plot 7-133. PAR Plot (LTE Band 25/2 - 1.4MHz 64-QAM - Full RB)

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: PY7-76056F | PART 24 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2205240063-05.PY7 | Test Dates: 06/02/2022 - 08/08/2022 | EUT Type: Portable Handset | Page 87 of 118 |

NR Band n2

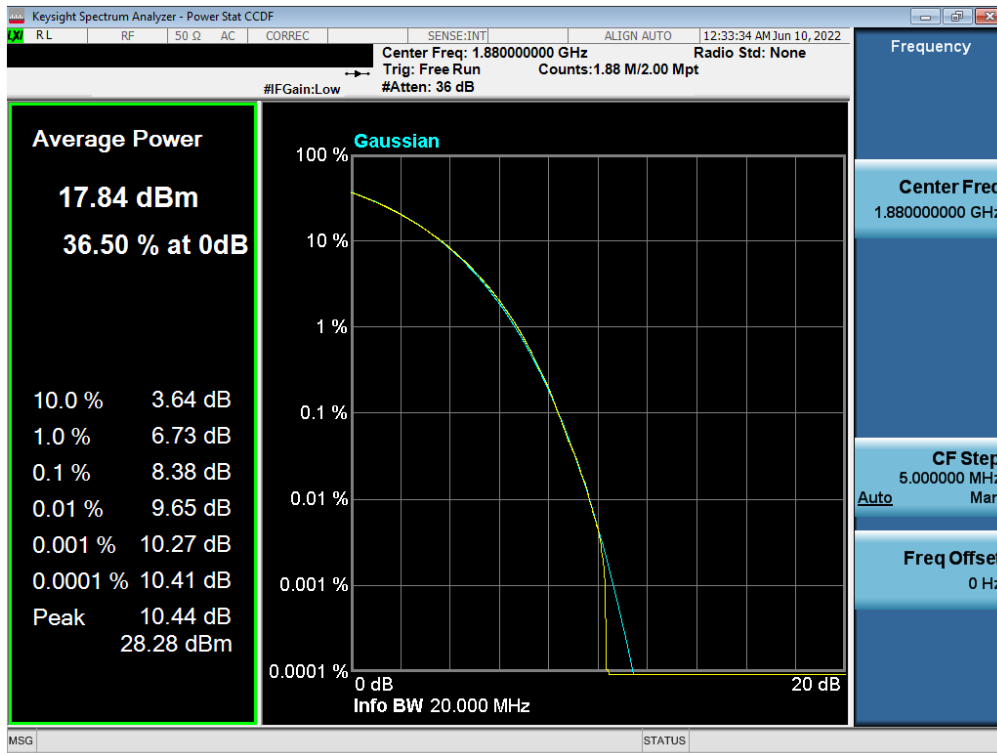


Plot 7-134. PAR Plot (NR Band n2 - 20.0MHz DFT-s-OFDM BPSK - Full RB)

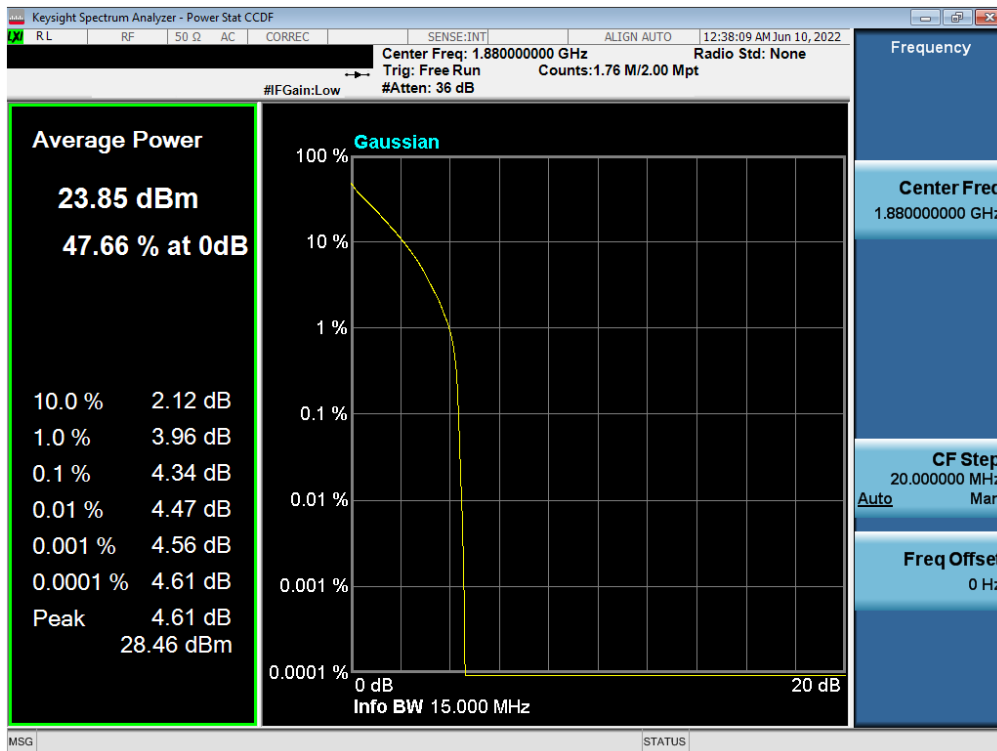


Plot 7-135. PAR Plot (NR Band n2 - 20.0MHz CP-OFDM QPSK - Full RB)

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: PY7-76056F | PART 24 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2205240063-05.PY7 | Test Dates: 06/02/2022 - 08/08/2022 | EUT Type: Portable Handset | Page 88 of 118 |

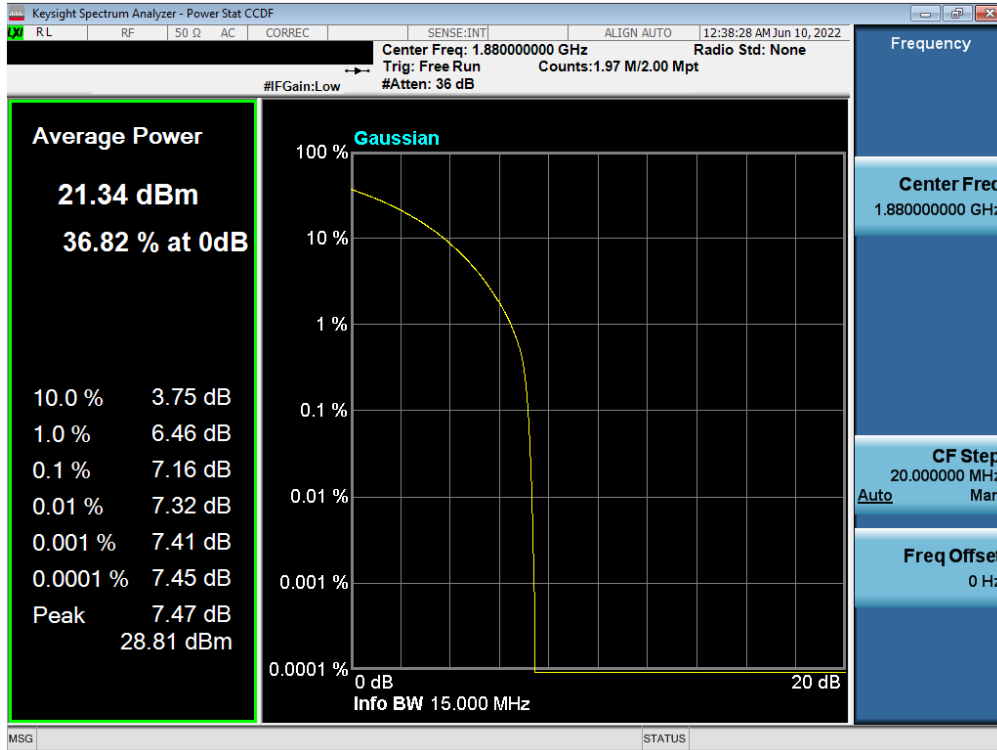


Plot 7-136. PAR Plot (NR Band n2 - 20.0MHz CP-OFDM 256-QAM - Full RB)

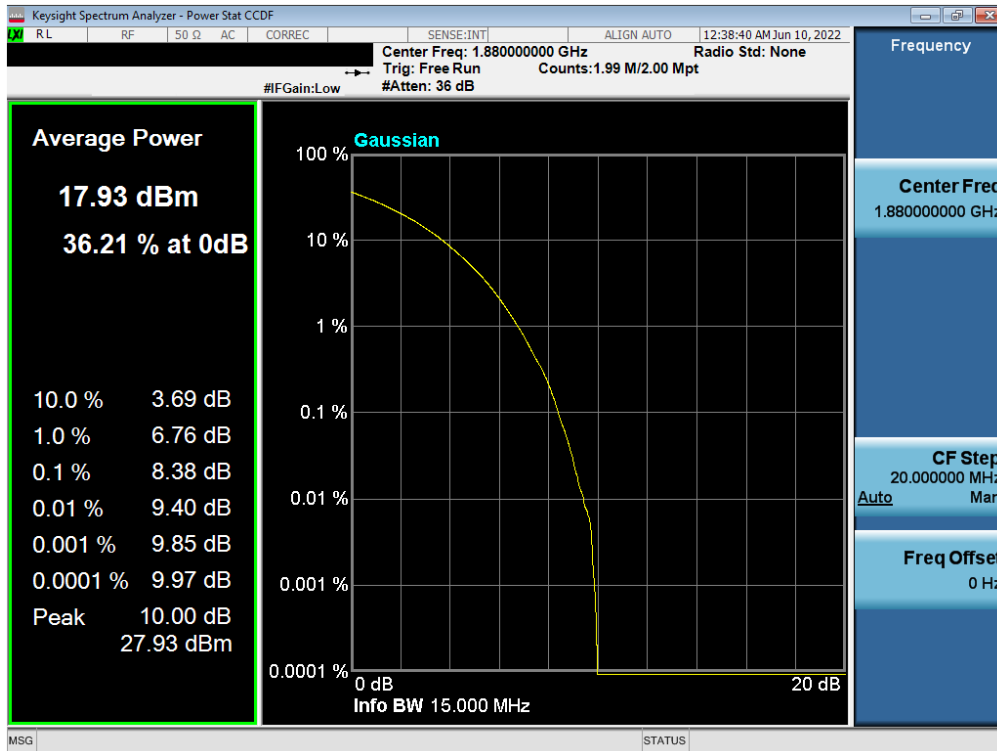


Plot 7-137. PAR Plot (NR Band n2 - 15.0MHz DFT-s-OFDM BPSK - Full RB)

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: PY7-76056F | PART 24 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2205240063-05.PY7 | Test Dates: 06/02/2022 - 08/08/2022 | EUT Type: Portable Handset | Page 89 of 118 |

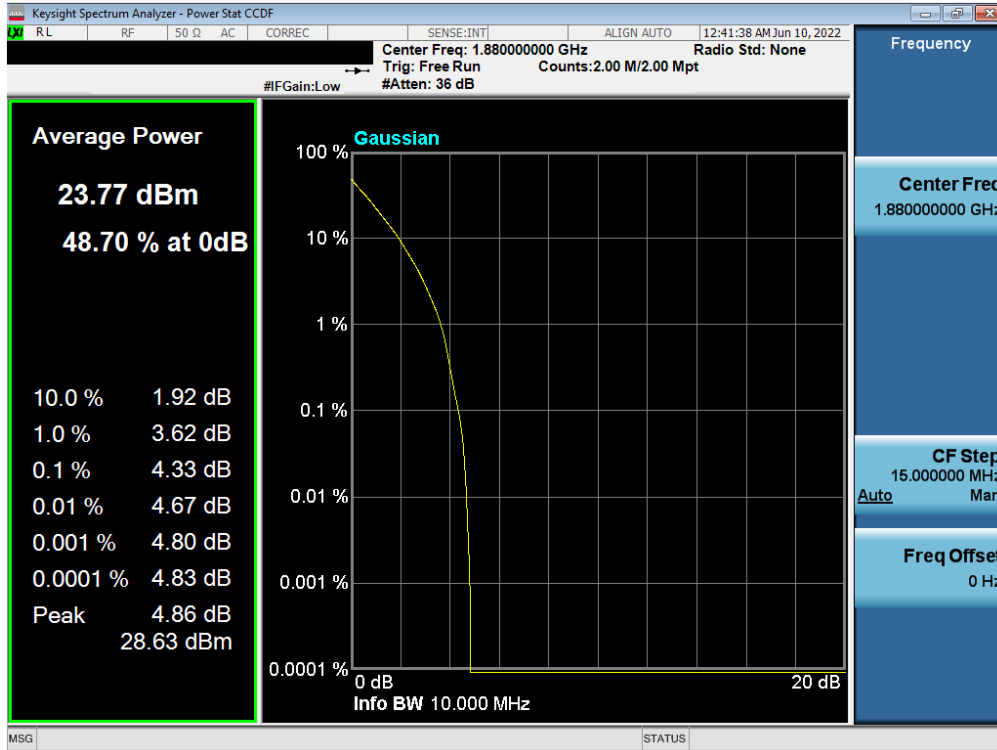


Plot 7-138. PAR Plot (NR Band n2 - 15.0MHz CP-OFDM QPSK - Full RB)

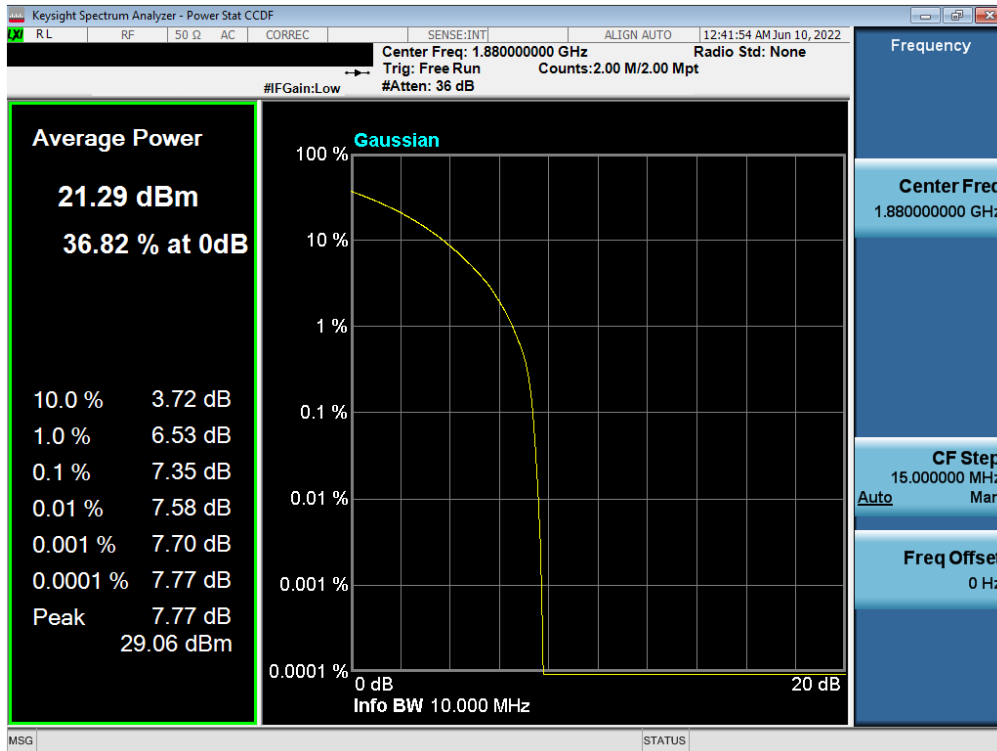


Plot 7-139. PAR Plot (NR Band n2 - 15.0MHz CP-OFDM 256-QAM - Full RB)

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: PY7-76056F | PART 24 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2205240063-05.PY7 | Test Dates: 06/02/2022 - 08/08/2022 | EUT Type: Portable Handset | Page 90 of 118 |

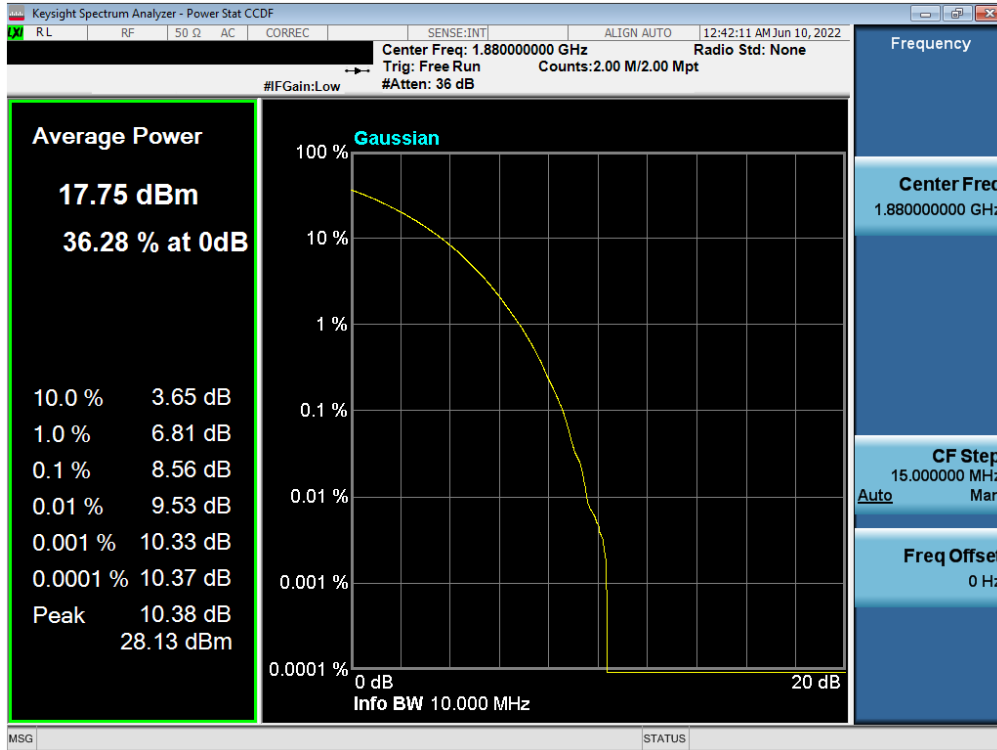


Plot 7-140. PAR Plot (NR Band n2 - 10.0MHz DFT-s-OFDM BPSK - Full RB)

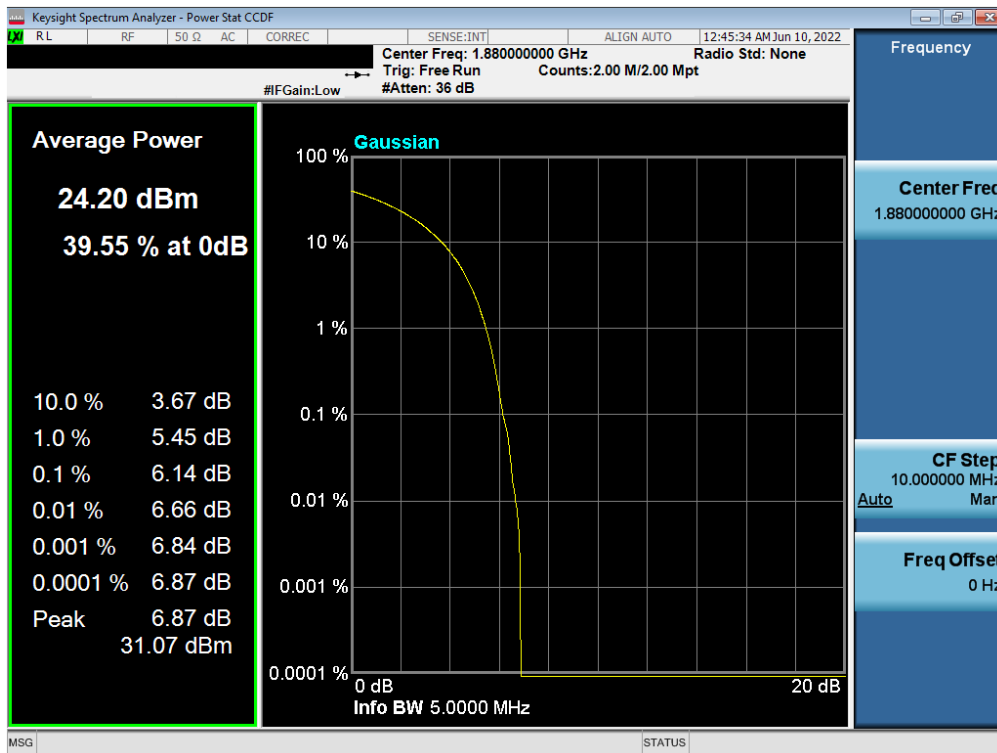


Plot 7-141. PAR Plot (NR Band n2 - 10.0MHz CP-OFDM QPSK - Full RB)

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: PY7-76056F | PART 24 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2205240063-05.PY7 | Test Dates: 06/02/2022 - 08/08/2022 | EUT Type: Portable Handset | Page 91 of 118 |

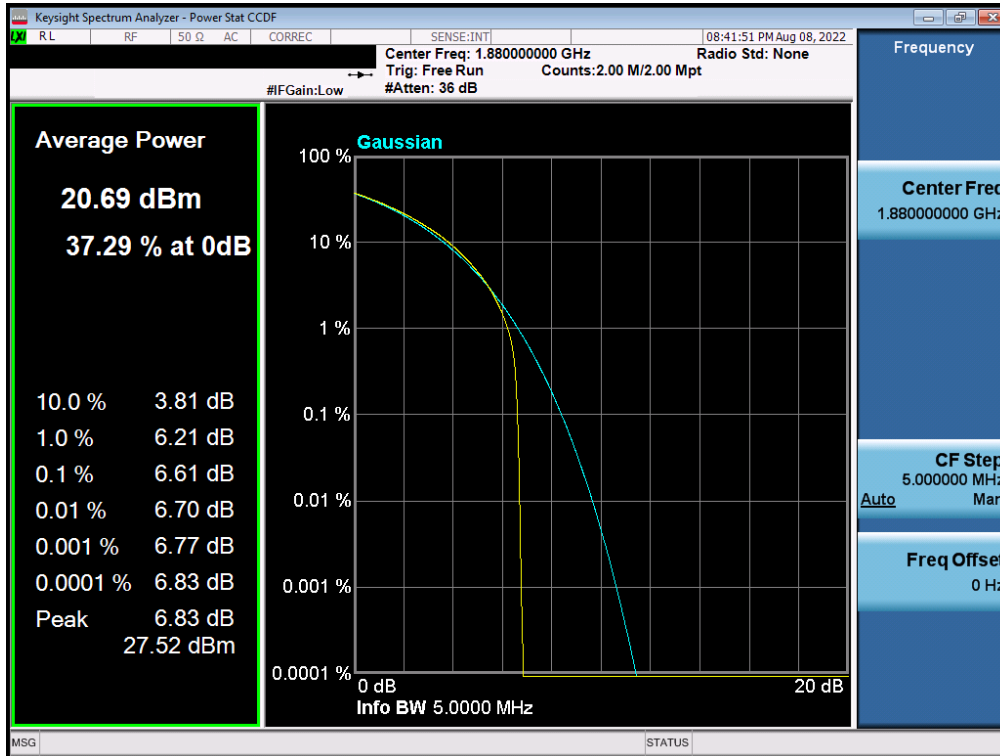


Plot 7-142. PAR Plot (NR Band n2 - 10.0MHz CP-OFDM 256-QAM - Full RB)

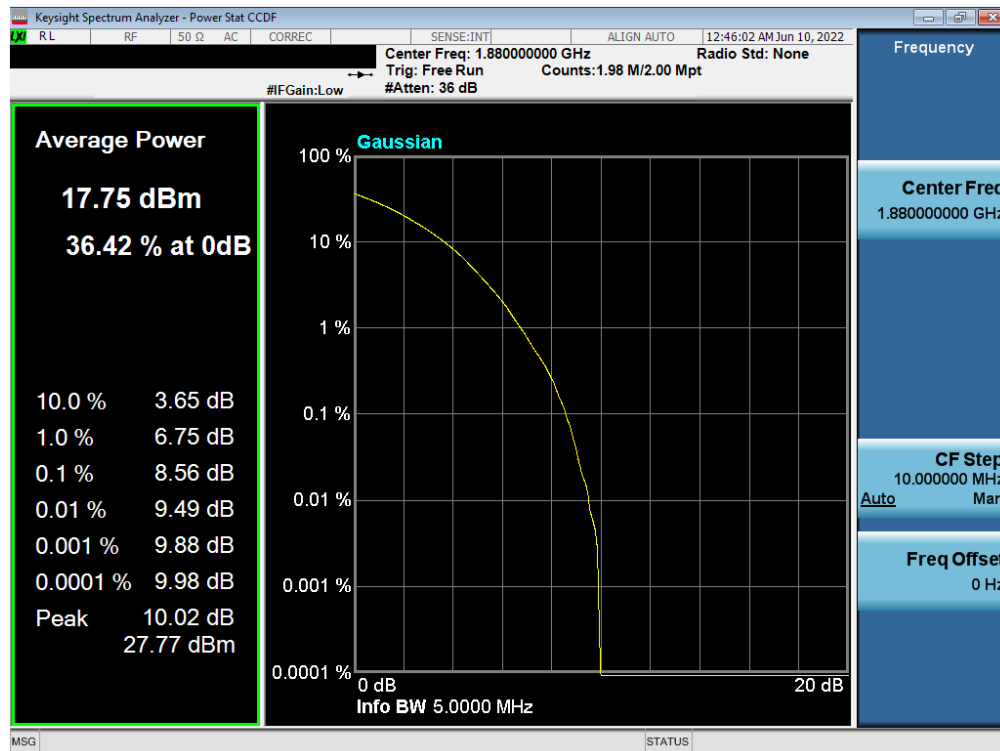


Plot 7-143. PAR Plot (NR Band n2 - 5.0MHz DFT-s-OFDM BPSK - Full RB)

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: PY7-76056F | PART 24 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2205240063-05.PY7 | Test Dates: 06/02/2022 - 08/08/2022 | EUT Type: Portable Handset | Page 92 of 118 |



Plot 7-144. PAR Plot (NR Band n2 - 5.0MHz CP-OFDM QPSK - Full RB)



Plot 7-145. PAR Plot (NR Band n2 - 5.0MHz CP-OFDM 256-QAM - Full RB)

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: PY7-76056F | PART 24 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2205240063-05.PY7 | Test Dates: 06/02/2022 - 08/08/2022 | EUT Type: Portable Handset | Page 93 of 118 |



7.7 Radiated Power (EIRP)

Test Overview

Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

ANSI C63.26-2015 – Section 5.2.4.4

Test Settings

1. Radiated power measurements are performed using the signal analyzer’s “channel power” measurement capability for signals with continuous operation. For signals with burst transmission, the signal analyzer’s “time domain power” measurement capability is used
2. RBW = 1 – 5% of the expected OBW, not to exceed 1MHz
3. VBW \geq 3 x RBW
4. Span = 1.5 times the OBW
5. No. of sweep points \geq 2 x span / RBW
6. Detector = RMS
7. Trigger is set to “free run” for signals with continuous operation with the sweep times set to “auto”. Trigger is set to enable triggering only on full power bursts with the sweep time set less than or equal to the transmission burst duration.
8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation. For signals with burst transmission, the “gating” function was enabled to ensure that measurements are performed during times in which the transmitter is operating at its maximum power.
9. Trace mode = trace averaging (RMS) over 100 sweeps
10. The trace was allowed to stabilize.

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

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

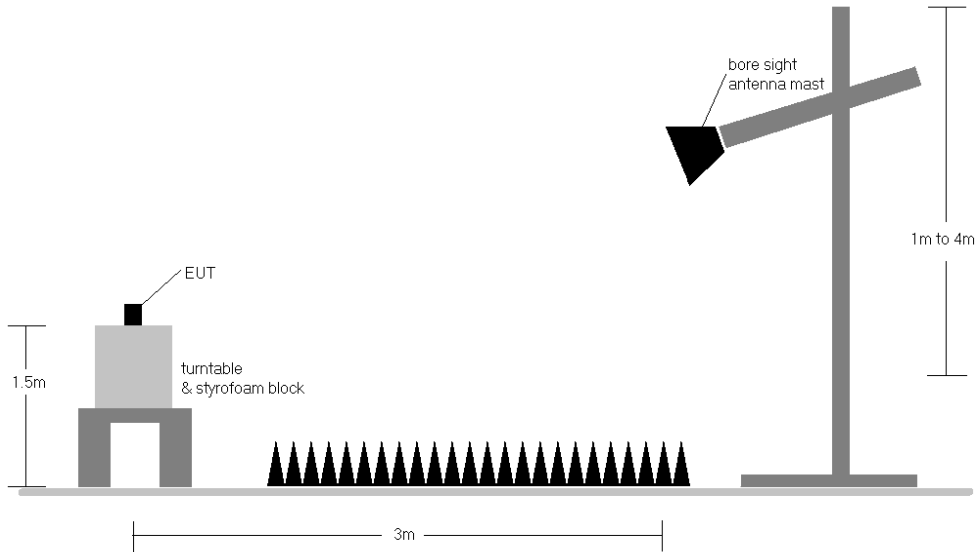


Figure 7-6. Radiated Test Setup >1GHz

Test Notes

- 1) This device employs GSM, GPRS, and EDGE capabilities. The EUT was tested under all configurations and the highest powers are reported in GPRS mode while transmitting with one slot active.
- 2) This device employs UMTS technology with WCDMA (AMR/RMC) and HSDPA capabilities. The EUT was tested under all configurations and the highest powers are reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to “1”.
- 3) 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.
- 4) This unit was tested with its standard battery.
- 5) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

| | | | |
|--|---|--------------------------------------|--|
| FCC ID: PY7-76056F | PART 24 MEASUREMENT REPORT | | Approved by: Technical Manager |
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| Frequency [MHz] | Mode | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Substitute Level [dBm] | Ant. Gain [dBi] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|-----------------|----------------|-----------------|---------------------|----------------------------|------------------------|-----------------|--------------|--------------|------------------|-------------|
| 1850.20 | GPRS1900 | H | 205 | 149 | 15.52 | 9.41 | 24.93 | 0.311 | 33.01 | -8.08 |
| 1880.00 | GPRS1900 | H | 195 | 145 | 14.05 | 9.79 | 23.84 | 0.242 | 33.01 | -9.17 |
| 1909.80 | GPRS1900 | H | 220 | 140 | 12.06 | 10.25 | 22.31 | 0.170 | 33.01 | -10.70 |
| 1850.20 | GPRS1900 | V | 156 | 204 | 12.58 | 9.41 | 21.99 | 0.158 | 33.01 | -11.02 |
| 1850.20 | EDGE1900 | H | 205 | 149 | 14.08 | 9.41 | 23.49 | 0.223 | 33.01 | -9.52 |
| 1850.20 | GPRS1900 (WCP) | H | 235 | 137 | 12.49 | 9.41 | 21.90 | 0.155 | 33.01 | -11.11 |

Table 7-4. EIRP Data (GPRS PCS)

| Frequency [MHz] | Mode | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Substitute Level [dBm] | Ant. Gain [dBi] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|-----------------|-----------------|-----------------|---------------------|----------------------------|------------------------|-----------------|--------------|--------------|------------------|-------------|
| 1852.40 | WCDMA1900 | H | 149 | 147 | 7.03 | 9.44 | 16.47 | 0.044 | 33.01 | -16.54 |
| 1880.00 | WCDMA1900 | H | 158 | 133 | 7.48 | 9.79 | 17.27 | 0.053 | 33.01 | -15.74 |
| 1907.60 | WCDMA1900 | H | 149 | 142 | 7.20 | 10.21 | 17.41 | 0.055 | 33.01 | -15.60 |
| 1907.60 | WCDMA1900 | V | 182 | 79 | 5.82 | 10.19 | 16.01 | 0.040 | 33.01 | -17.00 |
| 1907.60 | WCDMA1900 (WCP) | H | 142 | 135 | 5.79 | 10.21 | 16.00 | 0.040 | 33.01 | -17.01 |

Table 7-5. EIRP Data (WCDMA PCS)

| Bandwidth | Mod. | Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Ant. Gain [dBi] | RB Size/Offset | Substitute Level [dBm] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|-----------|---------------|-----------------|-----------------|---------------------|----------------------------|-----------------|----------------|------------------------|--------------|--------------|------------------|-------------|
| 20 MHz | QPSK | 1860.0 | V | 156 | 330 | 9.68 | 1 / 50 | 11.85 | 21.53 | 0.142 | 33.01 | -11.48 |
| | QPSK | 1882.5 | V | 140 | 340 | 9.99 | 1 / 0 | 11.38 | 21.37 | 0.137 | 33.01 | -11.64 |
| | QPSK | 1905.0 | V | 149 | 334 | 10.18 | 1 / 0 | 10.65 | 20.83 | 0.121 | 33.01 | -12.18 |
| | 16-QAM | 1860.0 | V | 156 | 330 | 9.68 | 1 / 50 | 11.19 | 20.87 | 0.122 | 33.01 | -12.14 |
| 15 MHz | QPSK | 1857.5 | V | 156 | 330 | 9.66 | 1 / 0 | 11.88 | 21.54 | 0.143 | 33.01 | -11.47 |
| | QPSK | 1882.5 | V | 140 | 340 | 9.99 | 1 / 37 | 11.43 | 21.42 | 0.139 | 33.01 | -11.59 |
| | QPSK | 1907.5 | V | 149 | 334 | 10.19 | 1 / 37 | 10.58 | 20.77 | 0.119 | 33.01 | -12.24 |
| | 16-QAM | 1857.5 | V | 156 | 330 | 9.66 | 1 / 74 | 11.14 | 20.80 | 0.120 | 33.01 | -12.21 |
| 10 MHz | QPSK | 1855.0 | V | 156 | 330 | 9.64 | 1 / 25 | 12.04 | 21.68 | 0.147 | 33.01 | -11.33 |
| | QPSK | 1882.5 | V | 140 | 340 | 9.99 | 1 / 0 | 11.59 | 21.57 | 0.144 | 33.01 | -11.44 |
| | QPSK | 1910.0 | V | 149 | 334 | 10.20 | 1 / 25 | 10.68 | 20.88 | 0.122 | 33.01 | -12.13 |
| | 16-QAM | 1855.0 | V | 156 | 330 | 9.64 | 1 / 49 | 11.33 | 20.98 | 0.125 | 33.01 | -12.03 |
| 5 MHz | QPSK | 1852.5 | V | 156 | 330 | 9.63 | 1 / 12 | 12.10 | 21.72 | 0.149 | 33.01 | -11.29 |
| | QPSK | 1882.5 | V | 140 | 340 | 9.99 | 1 / 24 | 11.77 | 21.75 | 0.150 | 33.01 | -11.26 |
| | QPSK | 1912.5 | V | 149 | 334 | 10.21 | 1 / 0 | 10.60 | 20.80 | 0.120 | 33.01 | -12.21 |
| | 16-QAM | 1852.5 | V | 156 | 330 | 9.63 | 1 / 12 | 11.51 | 21.14 | 0.130 | 33.01 | -11.87 |
| 3 MHz | QPSK | 1851.5 | V | 156 | 330 | 9.62 | 1 / 0 | 12.00 | 21.62 | 0.145 | 33.01 | -11.39 |
| | QPSK | 1882.5 | V | 140 | 340 | 9.99 | 1 / 0 | 11.72 | 21.70 | 0.148 | 33.01 | -11.31 |
| | QPSK | 1913.5 | V | 149 | 334 | 10.21 | 1 / 7 | 10.55 | 20.76 | 0.119 | 33.01 | -12.25 |
| | 16-QAM | 1851.5 | V | 156 | 330 | 9.62 | 1 / 7 | 11.27 | 20.89 | 0.123 | 33.01 | -12.12 |
| 1.4 MHz | QPSK | 1850.7 | V | 156 | 330 | 9.61 | 1 / 3 | 12.03 | 21.64 | 0.146 | 33.01 | -11.37 |
| | QPSK | 1882.5 | V | 140 | 340 | 9.99 | 1 / 0 | 11.65 | 21.64 | 0.146 | 33.01 | -11.37 |
| | QPSK | 1914.3 | V | 149 | 334 | 10.21 | 1 / 0 | 10.56 | 20.77 | 0.120 | 33.01 | -12.24 |
| | 16-QAM | 1850.7 | V | 156 | 330 | 9.61 | 1 / 0 | 11.48 | 21.10 | 0.129 | 33.01 | -11.91 |
| 20 MHz | Opposite Pol. | 1860.0 | H | 104 | 18 | 9.83 | 1/50 | 11.64 | 21.47 | 0.140 | 33.01 | -11.54 |
| | WCP | 1860.0 | H | 146 | 141 | 9.83 | 1/50 | 13.04 | 22.87 | 0.194 | 33.01 | -10.14 |

Table 7-6. EIRP Data (LTE Band 25/2)

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: PY7-76056F | PART 24 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2205240063-05.PY7 | Test Dates: 06/02/2022 - 08/08/2022 | EUT Type: Portable Handset | Page 96 of 118 |



| Bandwidth | Mod. | Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Ant. Gain [dBi] | RB Size/Offset | Substitute Level [dBm] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|-----------|----------------------|-----------------|-----------------|---------------------|----------------------------|-----------------|----------------|------------------------|--------------|--------------|------------------|-------------|
| 20 MHz | $\pi/2$ BPSK | 1860.0 | H | 156 | 26 | 9.55 | 1 / 53 | 11.91 | 21.46 | 0.140 | 33.01 | -11.55 |
| | $\pi/2$ BPSK | 1880.0 | H | 146 | 12 | 9.79 | 1 / 79 | 12.45 | 22.24 | 0.168 | 33.01 | -10.77 |
| | $\pi/2$ BPSK | 1900.0 | H | 144 | 20 | 10.07 | 1 / 53 | 11.54 | 21.61 | 0.145 | 33.01 | -11.40 |
| | QPSK | 1860.0 | H | 156 | 26 | 9.55 | 1 / 53 | 11.83 | 21.38 | 0.137 | 33.01 | -11.63 |
| | QPSK | 1880.0 | H | 146 | 12 | 9.79 | 1 / 79 | 12.43 | 22.22 | 0.167 | 33.01 | -10.79 |
| | QPSK | 1900.0 | H | 144 | 20 | 10.07 | 1 / 53 | 11.60 | 21.67 | 0.147 | 33.01 | -11.34 |
| 15 MHz | 16-QAM | 1880.0 | H | 146 | 12 | 9.79 | 1 / 79 | 11.47 | 21.26 | 0.134 | 33.01 | -11.75 |
| | $\pi/2$ BPSK | 1857.5 | H | 156 | 26 | 9.51 | 1 / 58 | 11.97 | 21.48 | 0.141 | 33.01 | -11.53 |
| | $\pi/2$ BPSK | 1880.0 | H | 146 | 12 | 9.79 | 1 / 39 | 12.42 | 22.21 | 0.166 | 33.01 | -10.80 |
| | $\pi/2$ BPSK | 1902.5 | H | 144 | 20 | 10.11 | 1 / 39 | 11.62 | 21.74 | 0.149 | 33.01 | -11.27 |
| | QPSK | 1857.5 | H | 156 | 26 | 9.51 | 1 / 58 | 11.76 | 21.27 | 0.134 | 33.01 | -11.74 |
| | QPSK | 1880.0 | H | 146 | 12 | 9.79 | 1 / 39 | 12.61 | 22.40 | 0.174 | 33.01 | -10.61 |
| 10 MHz | QPSK | 1902.5 | H | 144 | 20 | 10.11 | 1 / 58 | 11.49 | 21.61 | 0.145 | 33.01 | -11.40 |
| | QPSK | 1880.0 | H | 146 | 12 | 9.79 | 1 / 58 | 11.40 | 21.19 | 0.132 | 33.01 | -11.82 |
| | $\pi/2$ BPSK | 1855.0 | H | 156 | 26 | 9.48 | 1 / 26 | 11.83 | 21.31 | 0.135 | 33.01 | -11.70 |
| | $\pi/2$ BPSK | 1880.0 | H | 146 | 12 | 9.79 | 1 / 26 | 12.20 | 22.00 | 0.158 | 33.01 | -11.01 |
| | $\pi/2$ BPSK | 1905.0 | H | 144 | 20 | 10.16 | 1 / 26 | 11.45 | 21.61 | 0.145 | 33.01 | -11.40 |
| | QPSK | 1855.0 | H | 156 | 26 | 9.48 | 1 / 26 | 11.79 | 21.26 | 0.134 | 33.01 | -11.75 |
| 5 MHz | QPSK | 1880.0 | H | 146 | 12 | 9.79 | 1 / 26 | 12.51 | 22.30 | 0.170 | 33.01 | -10.71 |
| | QPSK | 1905.0 | H | 144 | 20 | 10.16 | 1 / 26 | 11.41 | 21.57 | 0.144 | 33.01 | -11.44 |
| | 16-QAM | 1880.0 | H | 146 | 12 | 9.79 | 1 / 26 | 11.44 | 21.23 | 0.133 | 33.01 | -11.78 |
| | $\pi/2$ BPSK | 1852.5 | H | 156 | 26 | 9.44 | 1 / 12 | 11.70 | 21.15 | 0.130 | 33.01 | -11.86 |
| | $\pi/2$ BPSK | 1880.0 | H | 146 | 12 | 9.79 | 1 / 12 | 12.03 | 21.82 | 0.152 | 33.01 | -11.19 |
| | $\pi/2$ BPSK | 1907.5 | H | 144 | 20 | 10.21 | 1 / 12 | 11.32 | 21.53 | 0.142 | 33.01 | -11.48 |
| 20 MHz | QPSK | 1852.5 | H | 156 | 26 | 9.44 | 1 / 12 | 11.71 | 21.15 | 0.130 | 33.01 | -11.86 |
| | QPSK | 1880.0 | H | 146 | 12 | 9.79 | 1 / 12 | 12.43 | 22.22 | 0.167 | 33.01 | -10.79 |
| | QPSK | 1907.5 | H | 144 | 20 | 10.21 | 1 / 12 | 11.23 | 21.44 | 0.139 | 33.01 | -11.57 |
| | 16-QAM | 1880.0 | H | 146 | 12 | 9.79 | 1 / 12 | 11.40 | 21.19 | 0.132 | 33.01 | -11.82 |
| 20 MHz | QPSK (CP-OFDM) | 1880.0 | H | 142 | 14 | 9.79 | 1/79 | 10.64 | 20.43 | 0.110 | 33.01 | -12.58 |
| | QPSK (Opposite Pol.) | 1880.0 | V | 269 | 86 | 9.96 | 1/53 | 9.75 | 19.71 | 0.094 | 33.01 | -13.30 |
| | QPSK (WCP) | 1880.0 | H | 146 | 12 | 9.79 | 1/79 | 8.73 | 18.52 | 0.071 | 33.01 | -14.49 |

Table 7-7. EIRP Data (NR Band n2)

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: PY7-76056F | PART 24 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2205240063-05.PY7 | Test Dates: 06/02/2022 - 08/08/2022 | EUT Type: Portable Handset | Page 97 of 118 |



7.8 Radiated Spurious Emissions Measurements

Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using hybrid (biconical/log) antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

ANSI C63.26-2015 – Section 5.5.4

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: PY7-76056F | PART 24 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2205240063-05.PY7 | Test Dates: 06/02/2022 - 08/08/2022 | EUT Type: Portable Handset | Page 98 of 118 |

Test Setup

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

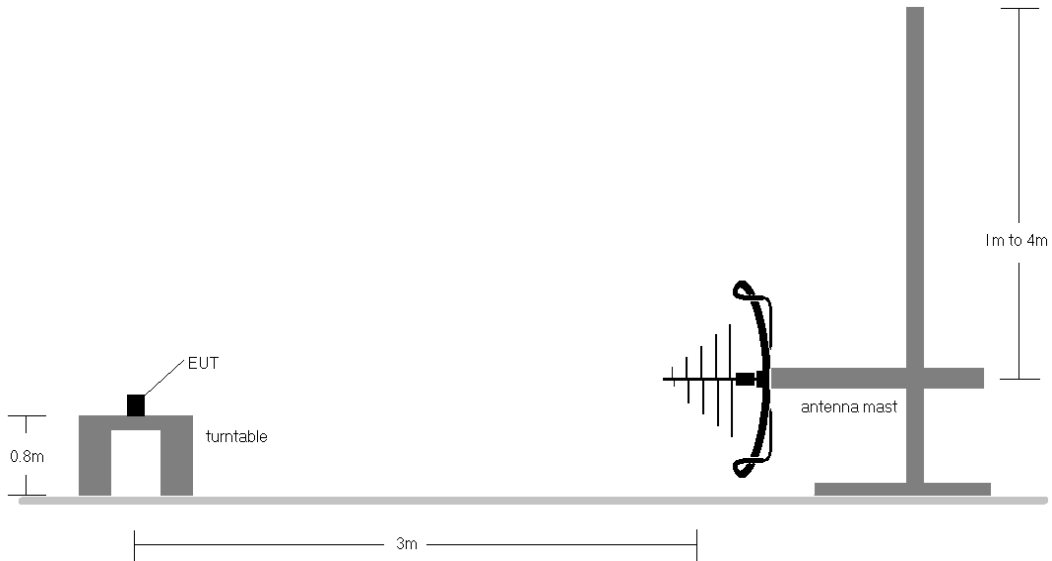


Figure 7-7. Test Instrument & Measurement Setup < 1GHz

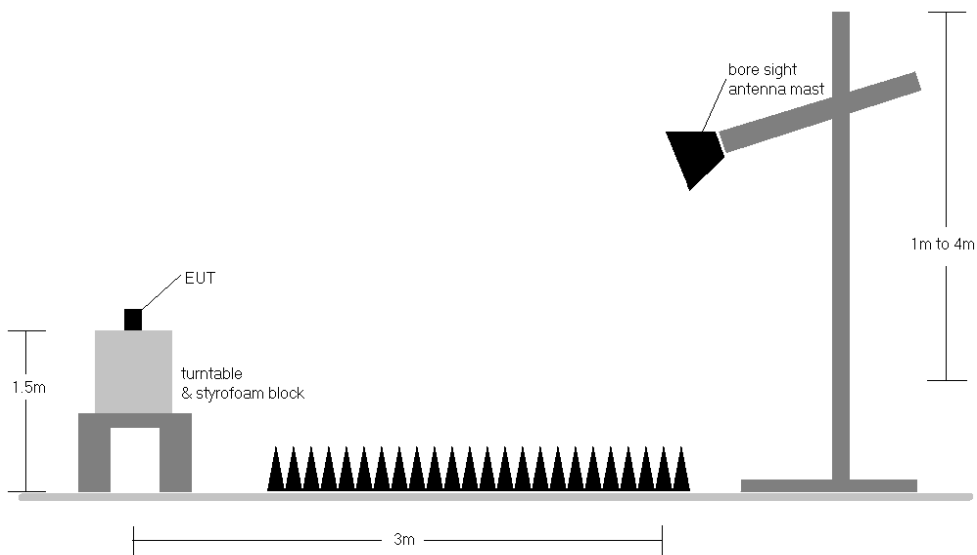


Figure 7-8. Test Instrument & Measurement Setup >1 GHz

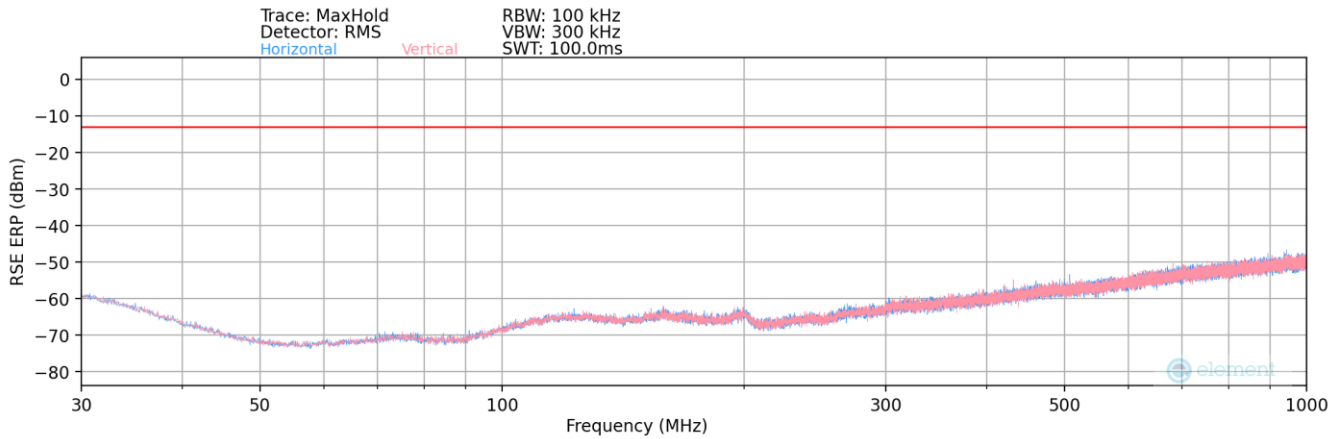
| | | | |
|--|---|--------------------------------------|--|
| FCC ID: PY7-76056F | PART 24 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2205240063-05.PY7 | Test Dates: 06/02/2022 - 08/08/2022 | EUT Type: Portable Handset | Page 99 of 118 |

Test Notes

- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
 - a) $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
- 2) This device employs GSM, GPRS, and EDGE capabilities. The EUT was tested under all configurations and the highest powers are reported in GPRS mode while transmitting with one slot active.
- 3) This device employs UMTS technology with WCDMA (AMR/RMC) and HSDPA capabilities. The EUT was tested under all configurations and the highest powers are reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1".
- 4) 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.
- 5) This unit was tested with its standard battery.
- 6) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 7) 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.
- 8) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 9) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.
- 10) Spurious emissions shown in this section are measured while operating in EN-DC mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor). Spurious emissions from the NR carrier device are subject to the rules under which the NR carrier operates. Spurious emissions caused by the LTE carrier must meet the requirements of the rules under which the LTE carrier operates.

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: PY7-76056F | PART 24 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2205240063-05.PY7 | Test Dates: 06/02/2022 - 08/08/2022 | EUT Type: Portable Handset | Page 100 of 118 |

GSM/GPRS PCS



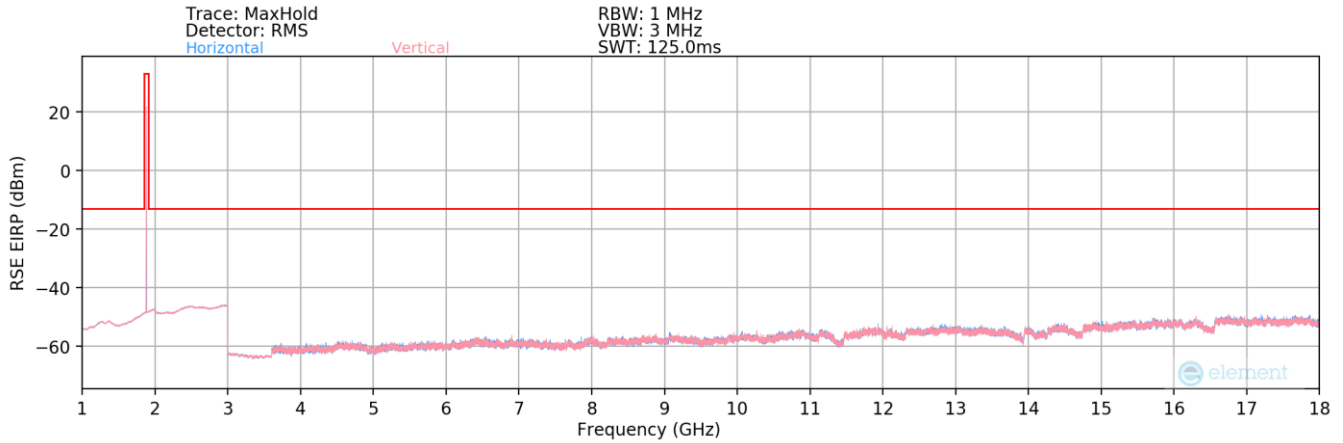
Plot 7-146. Radiated Spurious Plot (GPRS PCS – 30MHz-1GHz)

| | |
|-------------------------|----------------|
| Mode: | GPRS 1 Tx Slot |
| Channel: | 512 |
| Frequency (MHz): | 1850.2 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | ERP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|-----------------------------------|-------------|-------------|
| 432.00 | H | - | - | -87.90 | 24.66 | 43.76 | -53.65 | -13.00 | -40.65 |

Table 7-8. Radiated Spurious Data (GPRS PCS – 30MHz-1GHz)

| | | | |
|--|---|--------------------------------------|--|
| FCC ID: PY7-76056F | PART 24 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2205240063-05.PY7 | Test Dates: 06/02/2022 - 08/08/2022 | EUT Type: Portable Handset | Page 101 of 118 |



Plot 7-147. Radiated Spurious Plot (GPRS PCS – 1GHz-18GHz)

| | |
|-------------------------|----------------|
| Mode: | GPRS 1 Tx Slot |
| Channel: | 512 |
| Frequency (MHz): | 1850.2 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3700.40 | H | 123 | 347 | -74.08 | 3.47 | 36.39 | -58.87 | -13.00 | -45.87 |
| 5550.60 | H | 138 | 230 | -76.53 | 5.13 | 35.60 | -59.66 | -13.00 | -46.66 |
| 7400.80 | H | - | - | -77.81 | 7.51 | 36.70 | -58.56 | -13.00 | -45.56 |
| 9251.00 | H | - | - | -78.13 | 8.83 | 37.70 | -57.56 | -13.00 | -44.56 |
| 11101.20 | H | - | - | -78.97 | 12.04 | 40.07 | -55.19 | -13.00 | -42.19 |

Table 7-9. Radiated Spurious Data (GPRS PCS – Low Channel)

| | |
|-------------------------|----------------|
| Mode: | GPRS 1 Tx Slot |
| Channel: | 661 |
| Frequency (MHz): | 1880 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3760.00 | H | - | - | -76.05 | 3.03 | 33.98 | -61.28 | -13.00 | -48.28 |
| 5640.00 | H | - | - | -76.91 | 5.48 | 35.57 | -59.69 | -13.00 | -46.69 |
| 7520.00 | H | - | - | -78.69 | 7.34 | 35.65 | -59.61 | -13.00 | -46.61 |

Table 7-10. Radiated Spurious Data (GPRS PCS – Mid Channel)

| | | | |
|--|---|--------------------------------------|--|
| FCC ID: PY7-76056F | PART 24 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2205240063-05.PY7 | Test Dates: 06/02/2022 - 08/08/2022 | EUT Type: Portable Handset | Page 102 of 118 |



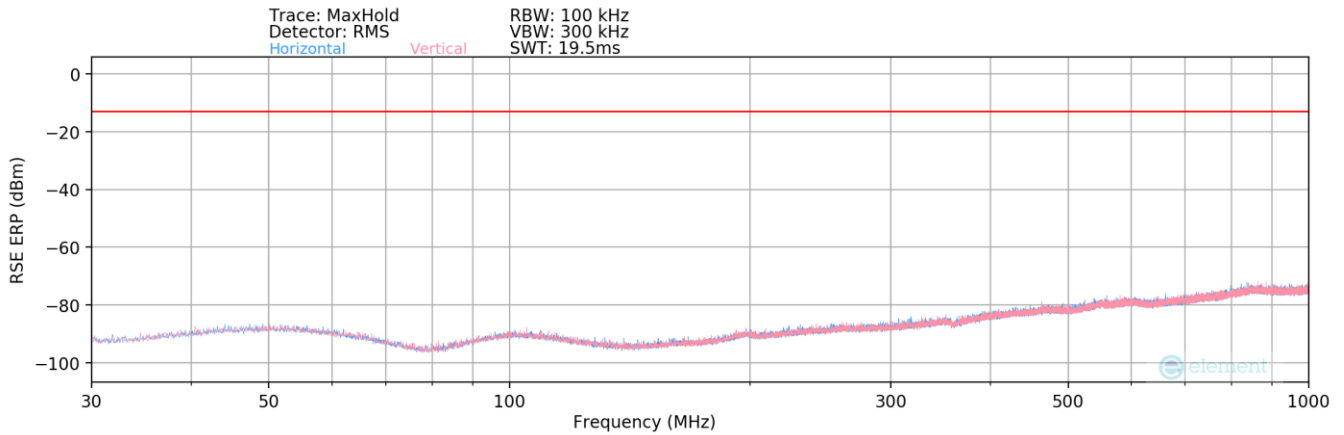
| | |
|-------------------------|----------------|
| Mode: | GPRS 1 Tx Slot |
| Channel: | 810 |
| Frequency (MHz): | 1909.8 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3819.60 | H | 160 | 166 | -75.75 | 2.94 | 34.19 | -61.07 | -13.00 | -48.07 |
| 5729.40 | H | - | - | -77.05 | 5.40 | 35.35 | -59.91 | -13.00 | -46.91 |
| 7639.20 | H | - | - | -78.28 | 7.59 | 36.31 | -58.95 | -13.00 | -45.95 |
| 9549.00 | H | - | - | -79.88 | 9.96 | 37.08 | -58.18 | -13.00 | -45.18 |

Table 7-11. Radiated Spurious Data (GPRS PCS – High Channel)

| | | | |
|--|---|--------------------------------------|--|
| FCC ID: PY7-76056F | PART 24 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2205240063-05.PY7 | Test Dates: 06/02/2022 - 08/08/2022 | EUT Type: Portable Handset | Page 103 of 118 |

WCDMA PCS



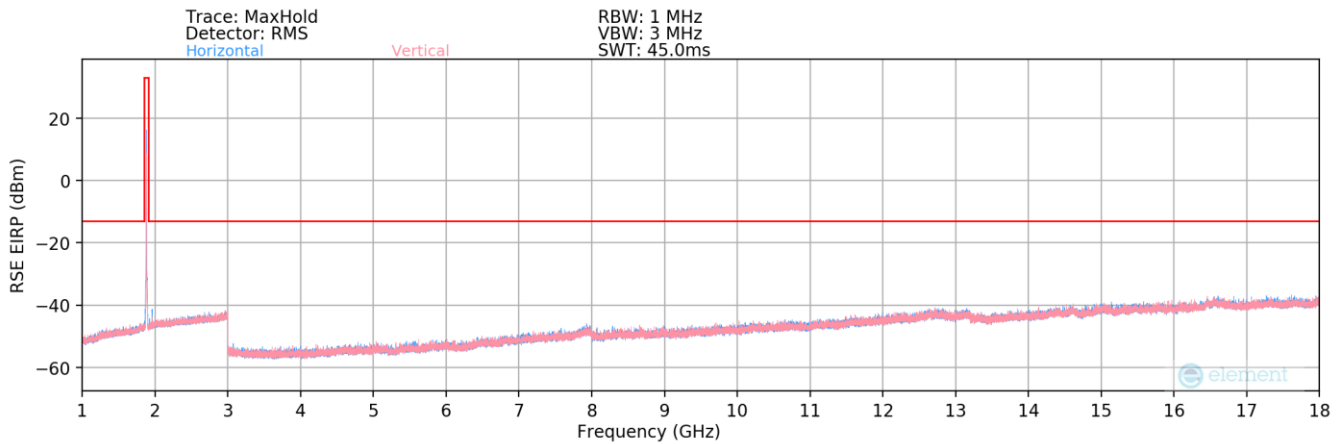
Plot 7-148. Radiated Spurious Plot (WCDMA PCS – 30MHz-1GHz)

| | |
|-------------------------|-----------|
| Mode: | WCDMA RMC |
| Channel: | 9400 |
| Frequency (MHz): | 1800 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | ERP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|-----------------------------------|-------------|-------------|
| 518.80 | H | - | - | -89.98 | 25.92 | 42.94 | -54.47 | -13.00 | -41.47 |

Table 7-12. Radiated Spurious Data (WCDMA PCS – 30MHz-1GHz)

| | | | |
|--|---|--------------------------------------|--|
| FCC ID: PY7-76056F | PART 24 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2205240063-05.PY7 | Test Dates: 06/02/2022 - 08/08/2022 | EUT Type: Portable Handset | Page 104 of 118 |



Plot 7-149. Radiated Spurious Plot (WCDMA PCS -1-18GHz)

| | |
|-------------------------|-----------|
| Mode: | WCDMA RMC |
| Channel: | 9262 |
| Frequency (MHz): | 1852.4 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3704.80 | H | - | - | -79.13 | 3.45 | 31.32 | -63.94 | -13.00 | -50.94 |
| 5557.20 | H | - | - | -78.90 | 5.17 | 33.27 | -61.99 | -13.00 | -48.99 |
| 7409.60 | H | - | - | -80.08 | 7.44 | 34.36 | -60.90 | -13.00 | -47.90 |

Table 7-13. Radiated Spurious Data (WCDMA PCS – Low Channel)

| | |
|-------------------------|-----------|
| Mode: | WCDMA RMC |
| Channel: | 9400 |
| Frequency (MHz): | 1880 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3760.00 | H | - | - | -79.12 | 3.03 | 30.91 | -64.35 | -13.00 | -51.35 |
| 5640.00 | H | - | - | -79.12 | 5.48 | 33.36 | -61.90 | -13.00 | -48.90 |
| 7520.00 | H | - | - | -79.85 | 7.34 | 34.49 | -60.77 | -13.00 | -47.77 |

Table 7-14. Radiated Spurious Data (WCDMA PCS – Mid Channel)

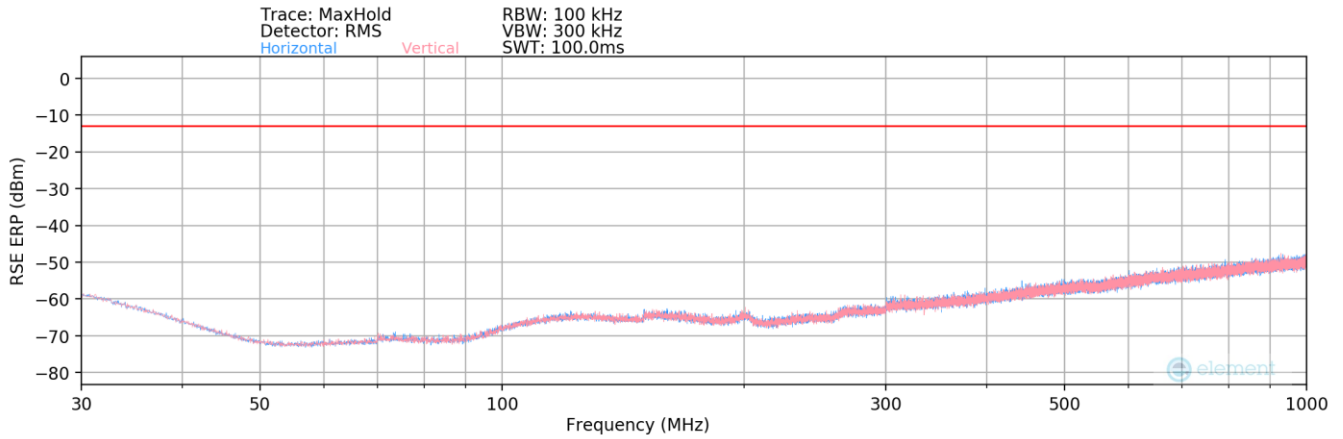
| | |
|-------------------------|-----------|
| Mode: | WCDMA RMC |
| Channel: | 9538 |
| Frequency (MHz): | 1907.6 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3815.20 | H | - | - | -78.51 | 2.95 | 31.44 | -63.82 | -13.00 | -50.82 |
| 5722.80 | H | - | - | -79.43 | 5.36 | 32.93 | -62.33 | -13.00 | -49.33 |
| 7630.40 | H | - | - | -80.22 | 7.65 | 34.43 | -60.83 | -13.00 | -47.83 |

Table 7-15. Radiated Spurious Data (WCDMA PCS – High Channel)

| | | | |
|--|---|--------------------------------------|--|
| FCC ID: PY7-76056F | PART 24 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2205240063-05.PY7 | Test Dates: 06/02/2022 - 08/08/2022 | EUT Type: Portable Handset | Page 105 of 118 |

LTE Band 25/2



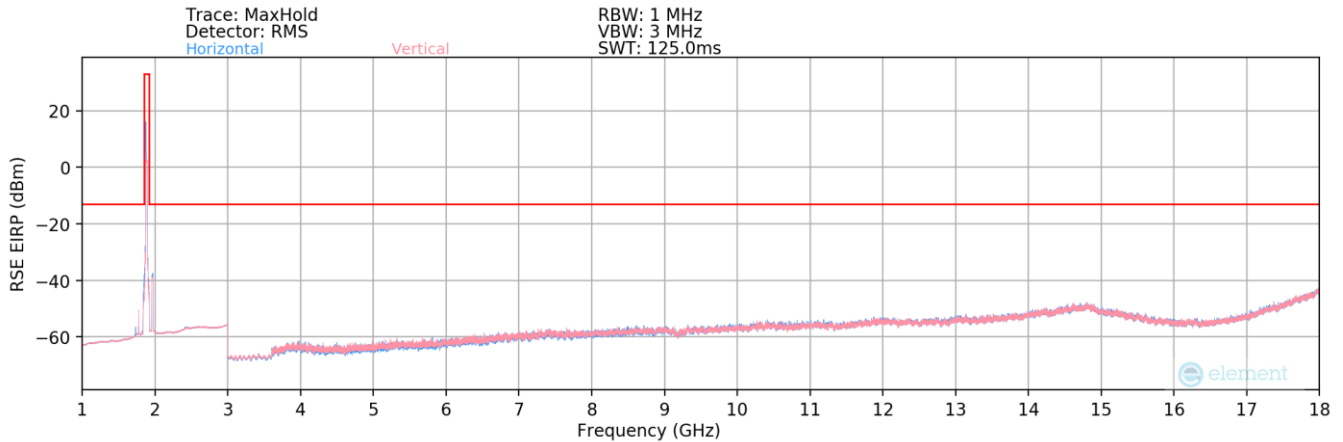
Plot 7-150. Radiated Spurious Plot (LTE Band 25/2 – 30MHz-1GHz)

| | |
|------------------|--------|
| Bandwidth (MHz): | 20 |
| Frequency (MHz): | 1882.5 |
| RB / Offset: | 1/50 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | ERP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|-----------------------------------|-------------|-------------|
| 505.90 | V | - | - | -75.46 | 25.60 | 57.14 | -40.27 | -13.00 | -27.27 |

Table 7-16. Radiated Spurious Data (LTE Band 25/2 – 30MHz-1GHz)

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: PY7-76056F | PART 24 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2205240063-05.PY7 | Test Dates: 06/02/2022 - 08/08/2022 | EUT Type: Portable Handset | Page 106 of 118 |



Plot 7-151. Radiated Spurious Plot (LTE Band 25/2 – 1-18GHz)

| | |
|------------------|--------|
| Bandwidth (MHz): | 20 |
| Frequency (MHz): | 1860 |
| RB / Offset: | 1 / 50 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3720.00 | V | - | - | -81.00 | 7.96 | 33.96 | -61.30 | -13.00 | -48.30 |
| 5580.00 | V | - | - | -82.86 | 11.80 | 35.94 | -59.32 | -13.00 | -46.32 |
| 7440.00 | V | - | - | -83.84 | 16.02 | 39.18 | -56.08 | -13.00 | -43.08 |

Table 7-17. Radiated Spurious Data (LTE Band 25/2 – Low Channel)

| | |
|------------------|--------|
| Bandwidth (MHz): | 20 |
| Frequency (MHz): | 1882.5 |
| RB / Offset: | 1 / 50 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3765.00 | V | - | - | -80.89 | 8.26 | 34.37 | -60.89 | -13.00 | -47.89 |
| 5647.50 | V | - | - | -82.51 | 11.46 | 35.95 | -59.30 | -13.00 | -46.30 |
| 7530.00 | V | - | - | -83.32 | 16.19 | 39.87 | -55.39 | -13.00 | -42.39 |

Table 7-18. Radiated Spurious Data (LTE Band 25/2 – Mid Channel)

| | |
|------------------|--------|
| Bandwidth (MHz): | 20 |
| Frequency (MHz): | 1905 |
| RB / Offset: | 1 / 50 |

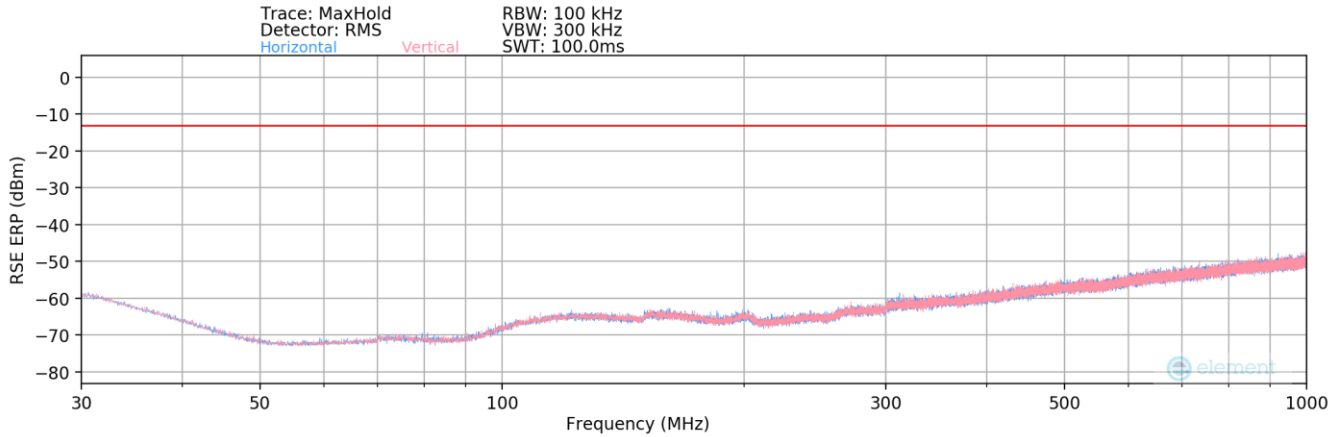
| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3810.00 | V | - | - | -81.56 | 8.32 | 33.76 | -61.50 | -13.00 | -48.50 |
| 5715.00 | V | - | - | -82.17 | 11.75 | 36.58 | -58.68 | -13.00 | -45.68 |
| 7620.00 | V | - | - | -83.48 | 16.42 | 39.94 | -55.32 | -13.00 | -42.32 |

Table 7-19. Radiated Spurious Data (LTE Band 25/2 – High Channel)

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: PY7-76056F | PART 24 MEASUREMENT REPORT | | Approved by: Technical Manager |
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NR Band n2



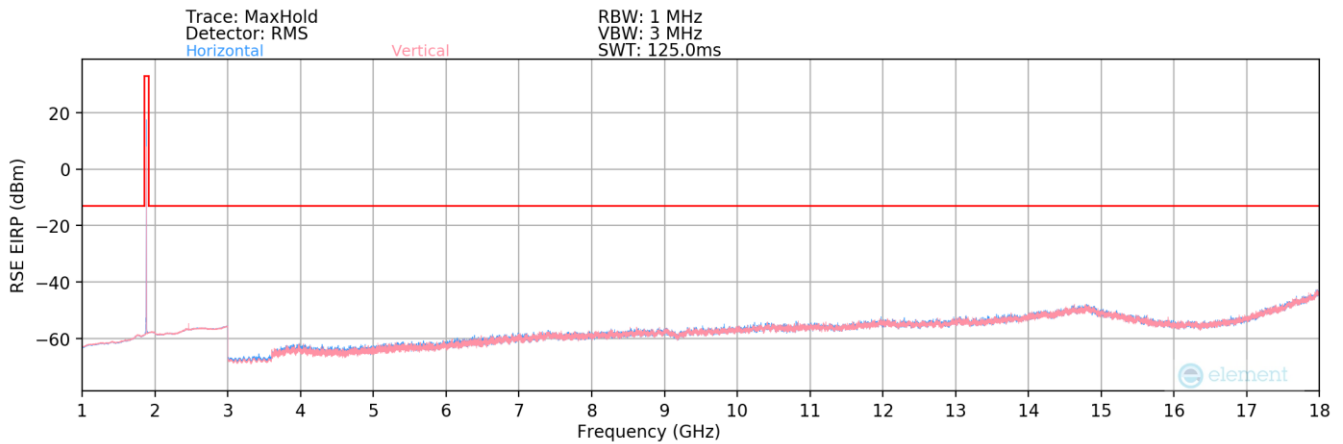
Plot 7-152. Radiated Spurious Plot (NR Band n2 – 30MHz-1GHz)

| | |
|------------------|-------------|
| Bandwidth (MHz): | 20 |
| Frequency (MHz): | 1860 |
| RB / Offset: | 1 / 53 |
| Mode: | Stand Alone |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | ERP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|-----------------------------------|-------------|-------------|
| 293.00 | V | - | - | -73.63 | 20.74 | 54.11 | -43.30 | -13.00 | -30.30 |

Table 7-20. Radiated Spurious Data (NR Band n2 – 30MHz-1GHz)

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: PY7-76056F | PART 24 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2205240063-05.PY7 | Test Dates: 06/02/2022 - 08/08/2022 | EUT Type: Portable Handset | Page 108 of 118 |



Plot 7-153. Radiated Spurious Plot (NR Band n2 – 1-18GHz)

| | |
|-------------------------|-------------|
| Bandwidth (MHz): | 20 |
| Frequency (MHz): | 1860 |
| RB / Offset: | 1 / 53 |
| Mode: | Stand Alone |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3720.00 | V | 118 | 131 | -77.29 | -0.43 | 29.28 | -65.98 | -13.00 | -52.98 |
| 5580.00 | V | 122 | 118 | -75.09 | 2.73 | 34.64 | -60.62 | -13.00 | -47.62 |
| 7440.00 | V | - | - | -80.59 | 7.26 | 33.67 | -61.58 | -13.00 | -48.58 |
| 9300.00 | V | - | - | -82.14 | 9.85 | 34.71 | -60.55 | -13.00 | -47.55 |
| 11160.00 | V | - | - | -81.92 | 11.43 | 36.51 | -58.75 | -13.00 | -45.75 |

Table 7-21. Radiated Spurious Data (NR Band n2 – Low Channel)

| | |
|-------------------------|-------------|
| Bandwidth (MHz): | 20 |
| Frequency (MHz): | 1880 |
| RB / Offset: | 1 / 53 |
| Mode: | Stand Alone |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3760.00 | V | - | - | -76.98 | 0.44 | 30.46 | -64.80 | -13.00 | -51.80 |
| 5640.00 | V | 400 | 55 | -77.50 | 2.78 | 32.28 | -62.98 | -13.00 | -49.98 |
| 7520.00 | V | - | - | -78.88 | 6.83 | 34.95 | -60.31 | -13.00 | -47.31 |
| 9400.00 | V | - | - | -80.88 | 9.76 | 35.88 | -59.37 | -13.00 | -46.37 |
| 11280.00 | V | - | - | -81.35 | 11.60 | 37.25 | -58.01 | -13.00 | -45.01 |

Table 7-22. Radiated Spurious Data (NR Band n2 – Mid Channel)

| | | | |
|--|---|--------------------------------------|--|
| FCC ID: PY7-76056F | PART 24 MEASUREMENT REPORT | | Approved by: Technical Manager |
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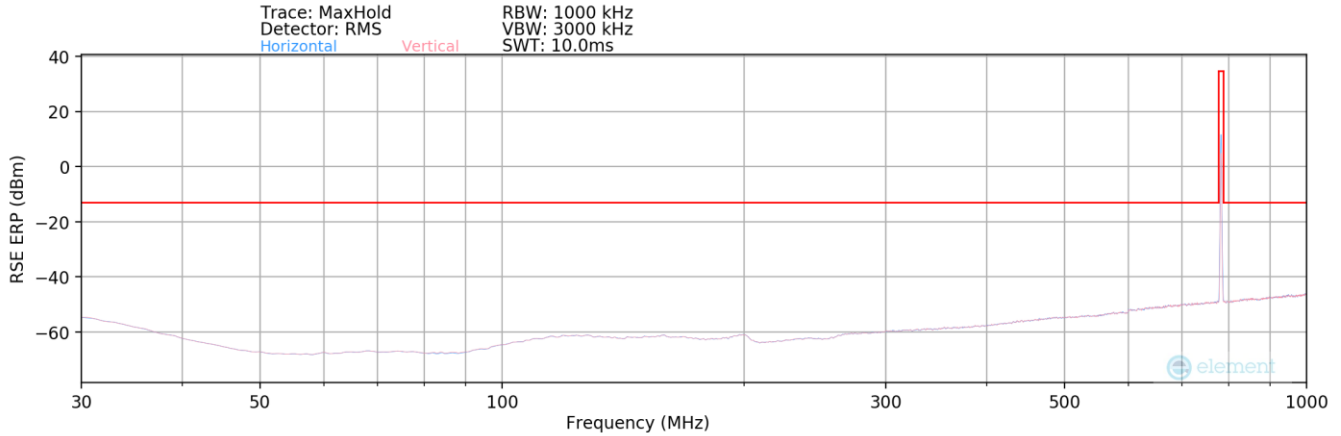
| | |
|-------------------------|-------------|
| Bandwidth (MHz): | 20 |
| Frequency (MHz): | 1900 |
| RB / Offset: | 1 / 53 |
| Mode: | Stand Alone |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3800.00 | V | 109 | 301 | -75.90 | 0.76 | 31.86 | -63.39 | -13.00 | -50.39 |
| 5700.00 | V | 117 | 315 | -76.11 | 3.15 | 34.04 | -61.22 | -13.00 | -48.22 |
| 7600.00 | V | - | - | -80.30 | 7.30 | 34.00 | -61.26 | -13.00 | -48.26 |
| 9500.00 | V | - | - | -81.50 | 9.85 | 35.35 | -59.91 | -13.00 | -46.91 |
| 11400.00 | V | - | - | -82.43 | 11.29 | 35.86 | -59.39 | -13.00 | -46.39 |

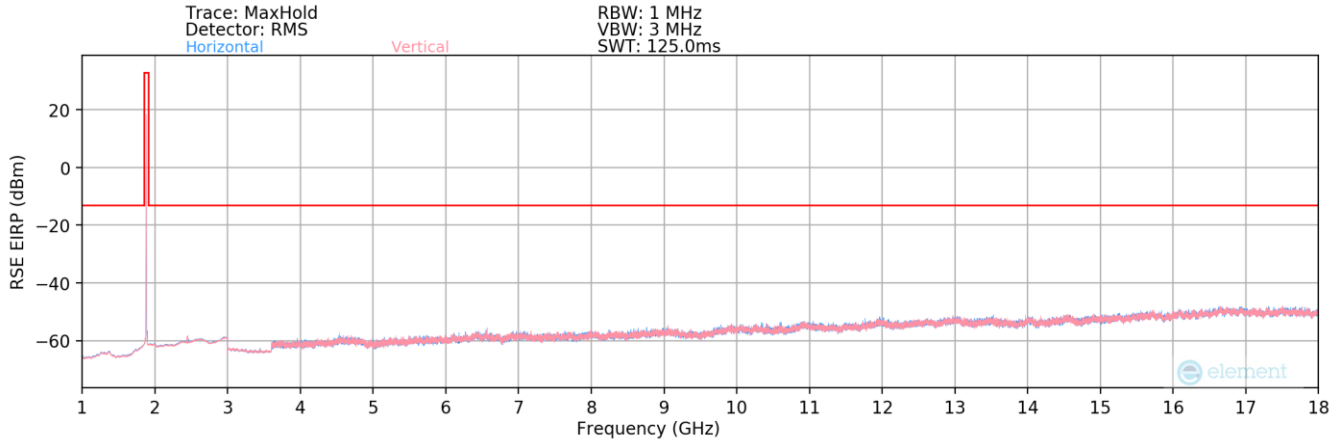
Table 7-23. Radiated Spurious Data (NR Band n2 – High Channel)

| | | | |
|--|---|--------------------------------------|--|
| FCC ID: PY7-76056F | PART 24 MEASUREMENT REPORT | | Approved by: Technical Manager |
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EN-DC: NR Band n2 – LTE Band 13



Plot 7-154. Radiated Spurious Plot 30MHz-1GHz (EN-DC: NR Band n2 – LTE Band 13)



Plot 7-155. Radiated Spurious Plot 1-18GHz (EN-DC: NR Band n2 – LTE Band 13)

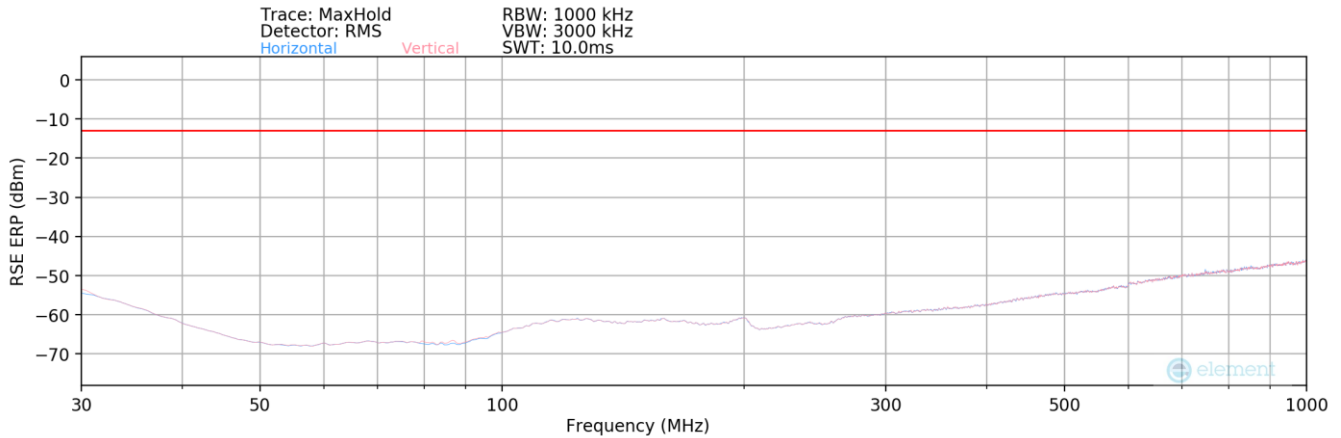
| | |
|-------------------------|-------------|
| Bandwidth (MHz): | 20 & 10 |
| Frequency (MHz): | 1880 & 782 |
| RB / Offset: | 1/50 & 1/25 |
| Mode: | EN-DC |
| Anchor Band: | LTE Band 13 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | ERP / EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|--|-------------|-------------|
| 632.00 | H | - | - | -89.13 | 27.77 | 45.64 | -51.77 | -13.00 | -38.77 |
| 1564.00 | H | - | - | -77.26 | -4.11 | 25.63 | -69.63 | -13.00 | -56.63 |
| 2346.00 | H | - | - | -77.77 | 0.50 | 29.73 | -65.53 | -13.00 | -52.53 |
| 3128.00 | H | - | - | -78.17 | 3.17 | 32.00 | -63.26 | -13.00 | -50.26 |

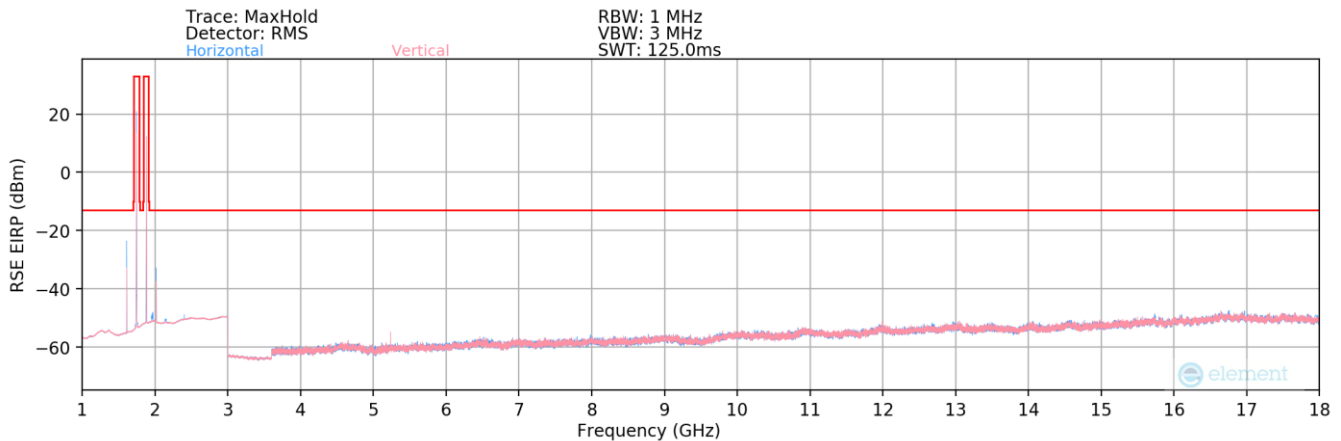
Table 7-24. Radiated Spurious Data (EN-DC: NR Band n2 – LTE Band 13)

| | | | |
|--|---|--------------------------------------|--|
| FCC ID: PY7-76056F | PART 24 MEASUREMENT REPORT | | Approved by: Technical Manager |
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EN-DC: NR Band n2 – LTE Band 66 (Sub)



Plot 7-156. Radiated Spurious Plot 30MHz-1GHz (EN-DC: NR Band n2 – LTE Band 66 (Sub))



Plot 7-157. Radiated Spurious Plot 1-18GHz (EN-DC: NR Band n2 – LTE Band 66 (Sub))

| | |
|------------------|-----------------|
| Bandwidth (MHz): | 20 & 20 |
| Frequency (MHz): | 1880 & 1745 |
| RB / Offset: | 1 / 53 & 1 / 50 |
| Mode: | EN-DC |
| Anchor Band: | LTE Band 66 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | ERP / EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|--|-------------|-------------|
| 135.0 | H | - | - | -84.00 | 20.09 | 43.09 | -54.31 | -13.00 | -41.31 |
| 270.0 | H | - | - | -83.90 | 20.60 | 43.70 | -53.71 | -13.00 | -40.71 |
| 1610.0 | H | 155 | 233 | -36.06 | 5.45 | 76.39 | -18.87 | -13.00 | -5.87 |
| 2015.0 | H | 157 | 236 | -49.62 | 9.39 | 66.77 | -28.49 | -13.00 | -15.49 |
| 3625.0 | H | - | - | -77.79 | 2.76 | 31.97 | -63.29 | -13.00 | -50.29 |
| 5235.0 | V | 301 | 5 | -70.72 | 4.98 | 41.26 | -54.00 | -13.00 | -41.00 |
| 5370.0 | H | - | - | -78.04 | 4.87 | 33.83 | -61.42 | -13.00 | -48.42 |
| 8860.0 | H | - | - | -78.95 | 8.59 | 36.64 | -58.62 | -13.00 | -45.62 |

Table 7-25. Radiated Spurious Data (EN-DC: NR Band n2 – LTE Band 66 (Sub))

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: PY7-76056F | PART 24 MEASUREMENT REPORT | | Approved by: Technical Manager |
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7.9 Frequency Stability / Temperature Variation

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015. 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 24, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Procedure Used

ANSI C63.26-2015 – Section 5.6

Test Settings

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

Test Setup

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

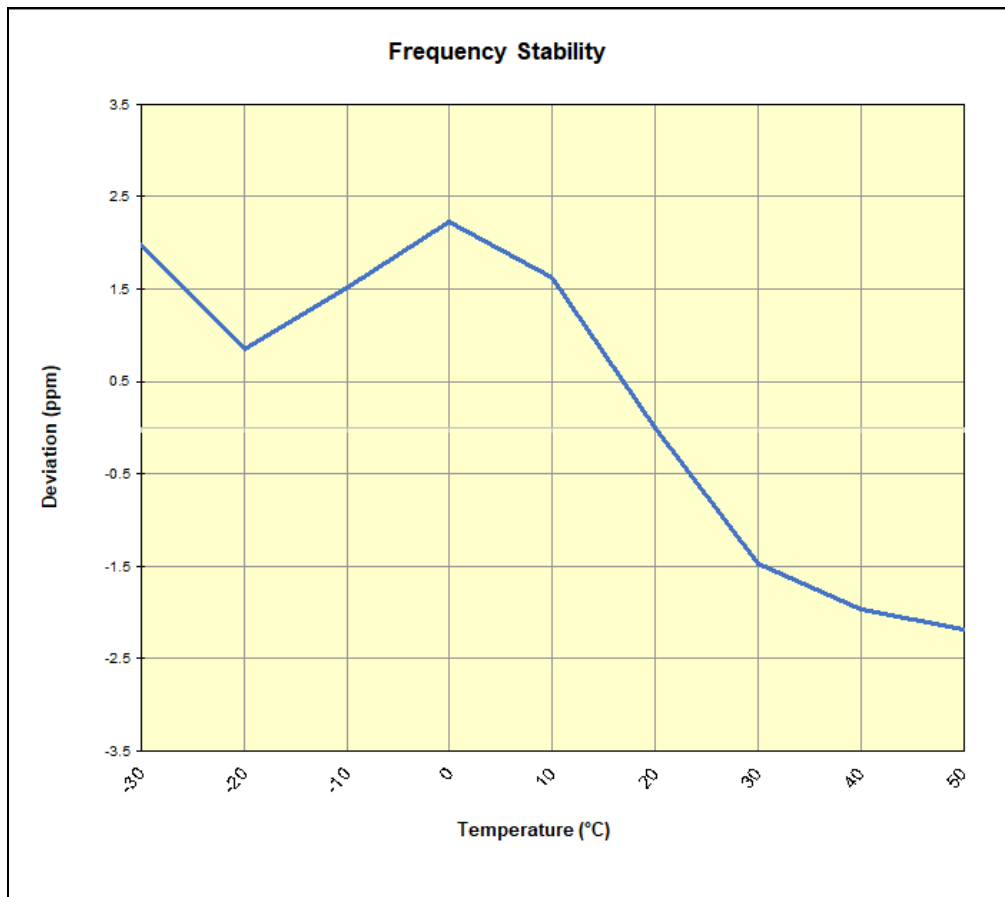
Test Notes

None

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: PY7-76056F | PART 24 MEASUREMENT REPORT | | Approved by: Technical Manager |
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| GSM/GPRS PCS | | | | | |
|---------------------------|-------------|---------------|----------------|-----------------|---------------|
| Operating Frequency (Hz): | | 1,880,000,000 | | | |
| Ref. Voltage (VDC): | | 4.28 | | | |
| Voltage (%) | Power (VDC) | Temp (°C) | Frequency (Hz) | Freq. Dev. (Hz) | Deviation (%) |
| 100 % | 4.28 | - 30 | 1,880,006,050 | 3,739 | 0.0001989 |
| | | - 20 | 1,880,003,915 | 1,604 | 0.0000853 |
| | | - 10 | 1,880,005,175 | 2,864 | 0.0001523 |
| | | 0 | 1,880,006,512 | 4,201 | 0.0002235 |
| | | + 10 | 1,880,005,376 | 3,065 | 0.0001630 |
| | | + 20 (Ref) | 1,880,002,311 | 0 | 0.0000000 |
| | | + 30 | 1,879,999,550 | -2,761 | -0.0001469 |
| | | + 40 | 1,879,998,606 | -3,705 | -0.0001971 |
| Battery Endpoint | 3.69 | + 20 | 1,880,001,544 | -767 | -0.0000408 |

Table 7-26. GSM/GPRS PCS Frequency Stability Data

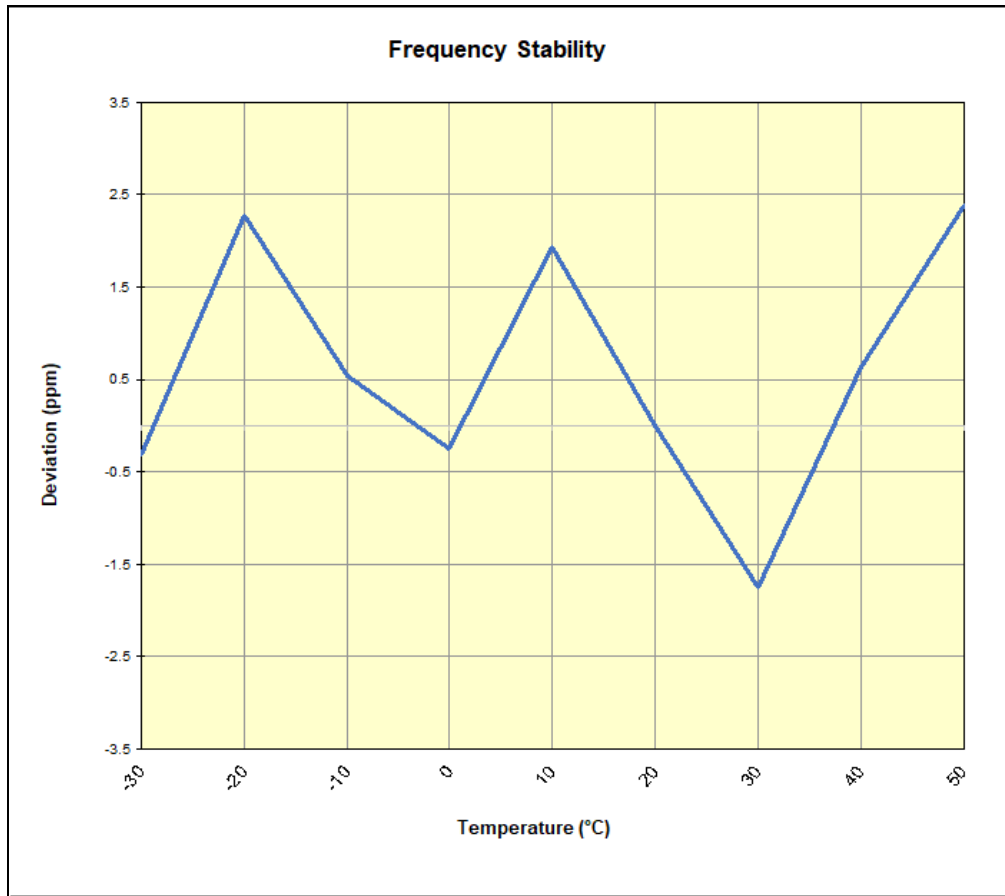


Plot 7-158. GSM/GPRS PCS Frequency Stability Chart

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: PY7-76056F | PART 24 MEASUREMENT REPORT | | Approved by: Technical Manager |
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| WCDMA PCS | | | | | |
|---------------------------|-------------|---------------|----------------|-----------------|---------------|
| Operating Frequency (Hz): | | 1,880,000,000 | | | |
| Ref. Voltage (VDC): | | 4.28 | | | |
| Voltage (%) | Power (VDC) | Temp (°C) | Frequency (Hz) | Freq. Dev. (Hz) | Deviation (%) |
| 100 % | 4.28 | - 30 | 1,879,996,390 | -570 | -0.0000303 |
| | | - 20 | 1,880,001,246 | 4,286 | 0.0002280 |
| | | - 10 | 1,879,997,967 | 1,007 | 0.0000536 |
| | | 0 | 1,879,996,486 | -474 | -0.0000252 |
| | | + 10 | 1,880,000,612 | 3,652 | 0.0001943 |
| | | + 20 (Ref) | 1,879,996,960 | 0 | 0.0000000 |
| | | + 30 | 1,879,993,680 | -3,280 | -0.0001745 |
| | | + 40 | 1,879,998,158 | 1,198 | 0.0000637 |
| Battery Endpoint | 3.69 | + 20 | 1,880,000,751 | 3,791 | 0.0002016 |

Table 7-27. WCDMA PCS Frequency Stability Data

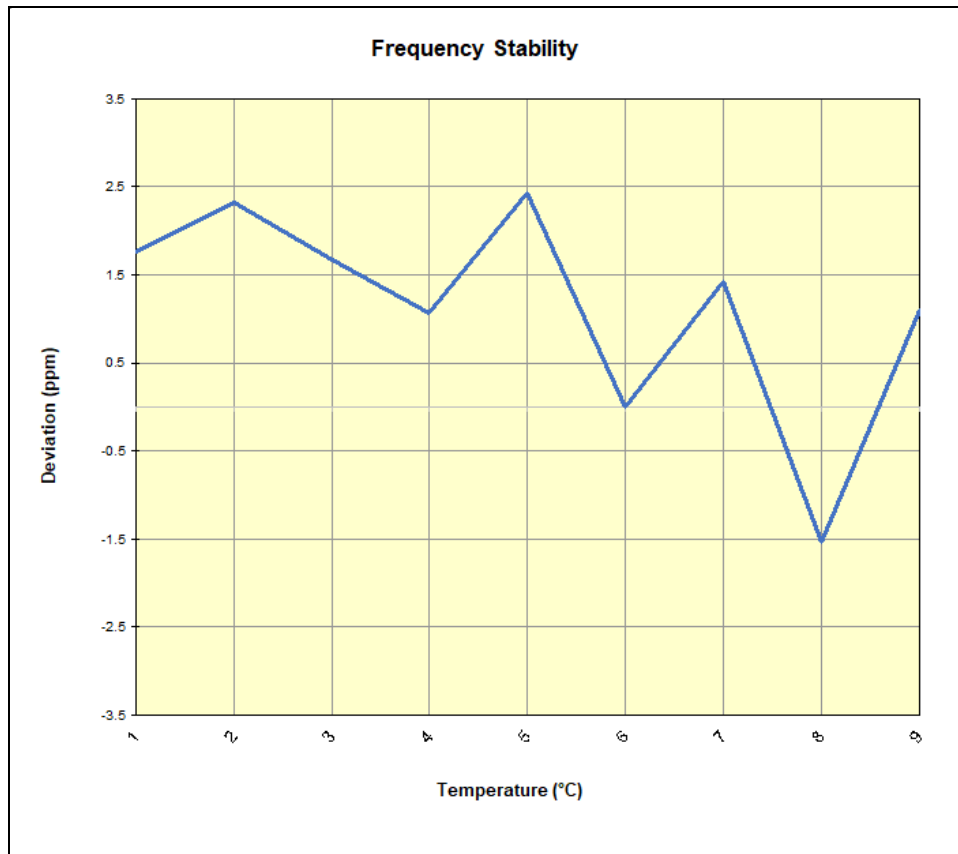


Plot 7-159. WCDMA PCS Frequency Stability Chart

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: PY7-76056F | PART 24 MEASUREMENT REPORT | | Approved by: Technical Manager |
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| LTE Band 25/2 | | | | | |
|------------------|-------------|---------------------------|----------------|-----------------|---------------|
| | | Operating Frequency (Hz): | | 1,882,500,000 | |
| | | Ref. Voltage (VDC): | | 4.28 | |
| Voltage (%) | Power (VDC) | Temp (°C) | Frequency (Hz) | Freq. Dev. (Hz) | Deviation (%) |
| 100 % | 4.28 | - 30 | 1,882,588,401 | 3,328 | 0.0001768 |
| | | - 20 | 1,882,589,454 | 4,381 | 0.0002327 |
| | | - 10 | 1,882,588,217 | 3,144 | 0.0001670 |
| | | 0 | 1,882,587,084 | 2,011 | 0.0001068 |
| | | + 10 | 1,882,589,659 | 4,586 | 0.0002436 |
| | | + 20 (Ref) | 1,882,585,073 | 0 | 0.0000000 |
| | | + 30 | 1,882,587,741 | 2,668 | 0.0001417 |
| | | + 40 | 1,882,582,193 | -2,880 | -0.0001530 |
| Battery Endpoint | 3.69 | + 20 | 1,882,585,945 | 872 | 0.0000463 |

Table 7-28. LTE Band 25/2 Frequency Stability Data

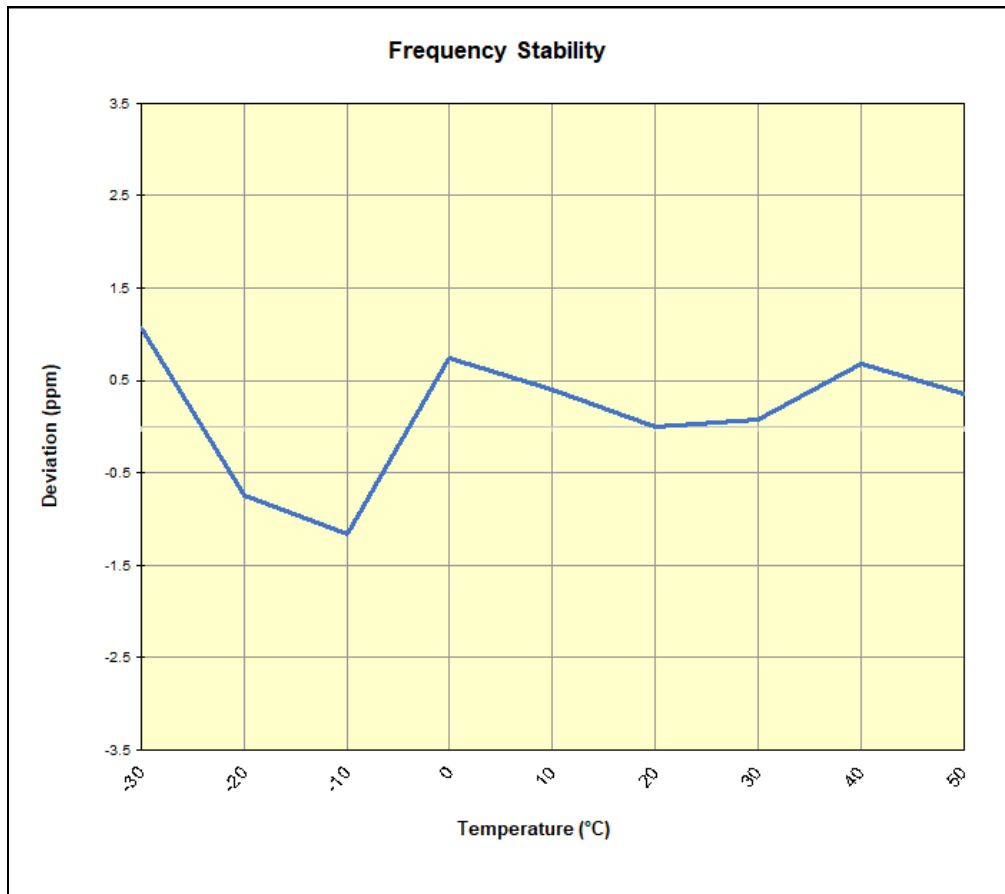


Plot 7-160. LTE Band 25/2 Frequency Stability Chart

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: PY7-76056F | PART 24 MEASUREMENT REPORT | | Approved by: Technical Manager |
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| NR Band n2 | | | | | |
|------------------|-------------|---------------------------|----------------|-----------------|---------------|
| | | Operating Frequency (Hz): | | 1,880,000,000 | |
| | | Ref. Voltage (VDC): | | 4.28 | |
| Voltage (%) | Power (VDC) | Temp (°C) | Frequency (Hz) | Freq. Dev. (Hz) | Deviation (%) |
| 100 % | 4.28 | - 30 | 1,880,082,845 | 2,018 | 0.0001073 |
| | | - 20 | 1,880,079,419 | -1,408 | -0.0000749 |
| | | - 10 | 1,880,078,634 | -2,193 | -0.0001166 |
| | | 0 | 1,880,082,218 | 1,391 | 0.0000740 |
| | | + 10 | 1,880,081,573 | 746 | 0.0000397 |
| | | + 20 (Ref) | 1,880,080,827 | 0 | 0.0000000 |
| | | + 30 | 1,880,080,977 | 150 | 0.0000080 |
| | | + 40 | 1,880,082,116 | 1,289 | 0.0000686 |
| Battery Endpoint | 3.69 | + 20 | 1,880,082,147 | 1,320 | 0.0000702 |

Table 7-29. NR Band n2 Frequency Stability Data



Plot 7-161. NR Band n2 Frequency Stability Chart

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: PY7-76056F | PART 24 MEASUREMENT REPORT | | Approved by: Technical Manager |
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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Sony Portable Handset FCC ID: PY7-76056F** complies with all the requirements of Part 24 of the FCC rules.

| | | | |
|--|---|--------------------------------------|--|
| FCC ID: PY7-76056F | PART 24 MEASUREMENT REPORT | | Approved by: Technical Manager |
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