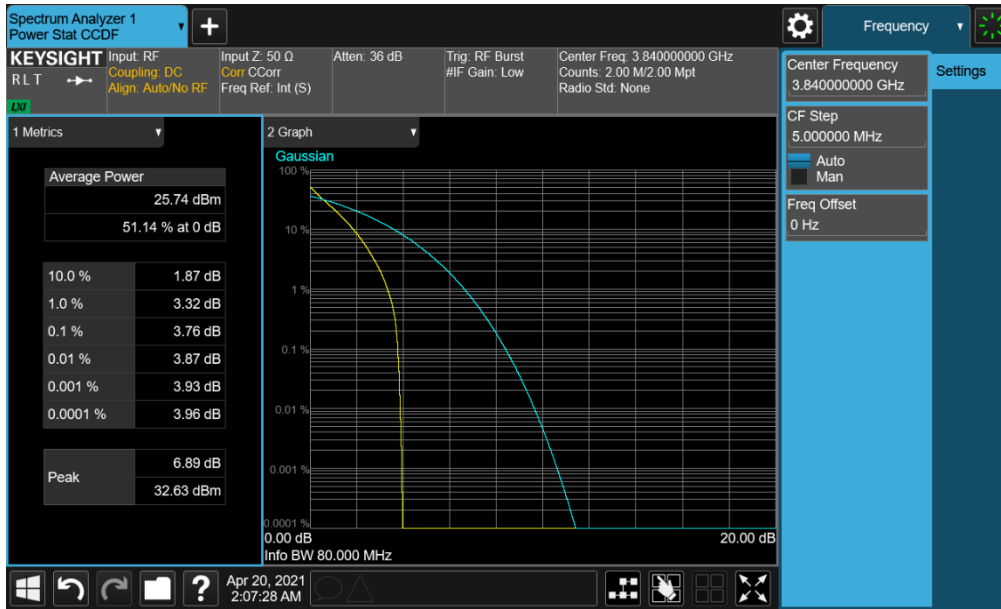


FCC ID: A3LSMF711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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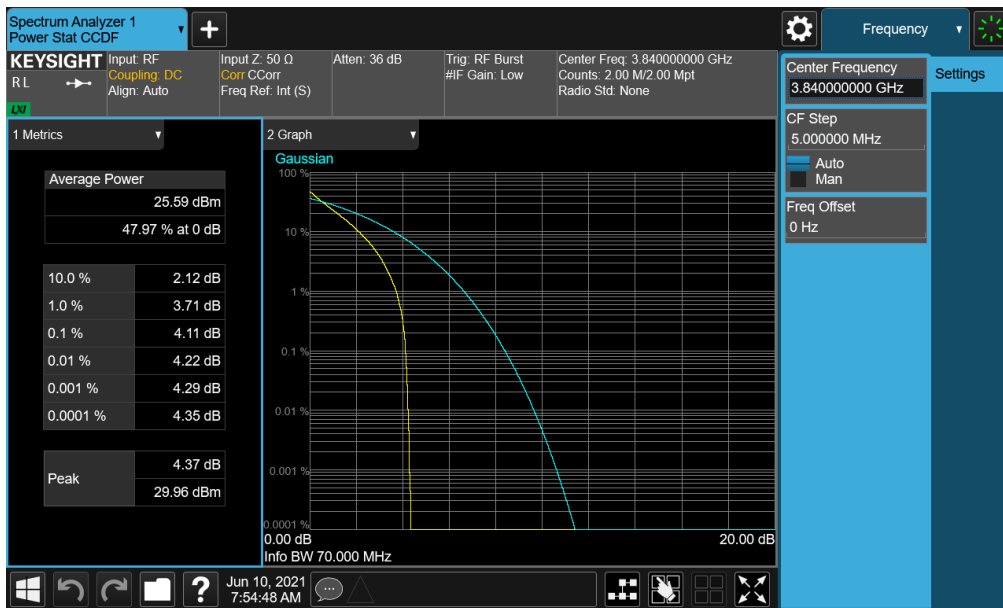


**Plot 7-157. PAR Plot (NR Band n77 PC2 - 80MHz  $\pi/2$  BPSK - Full RB)**

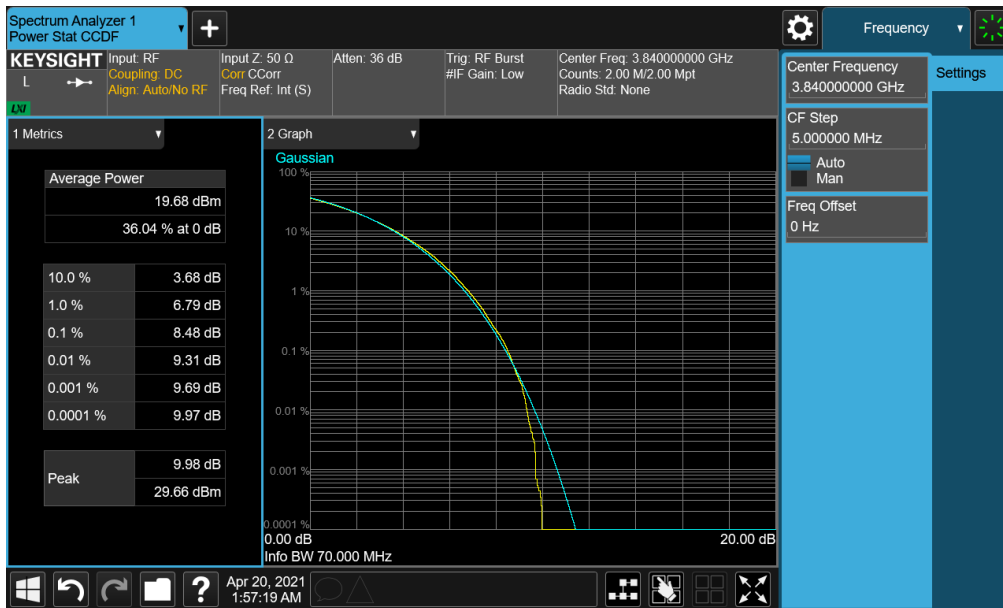


**Plot 7-158. PAR Plot (NR Band n77 PC2 - 80MHz CP-OFDM QPSK - Full RB)**

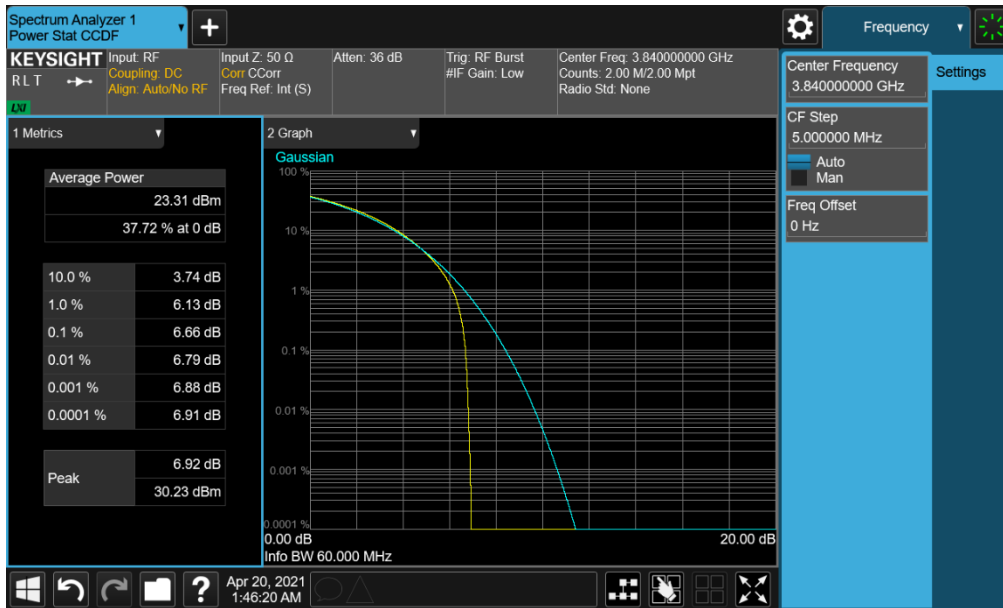
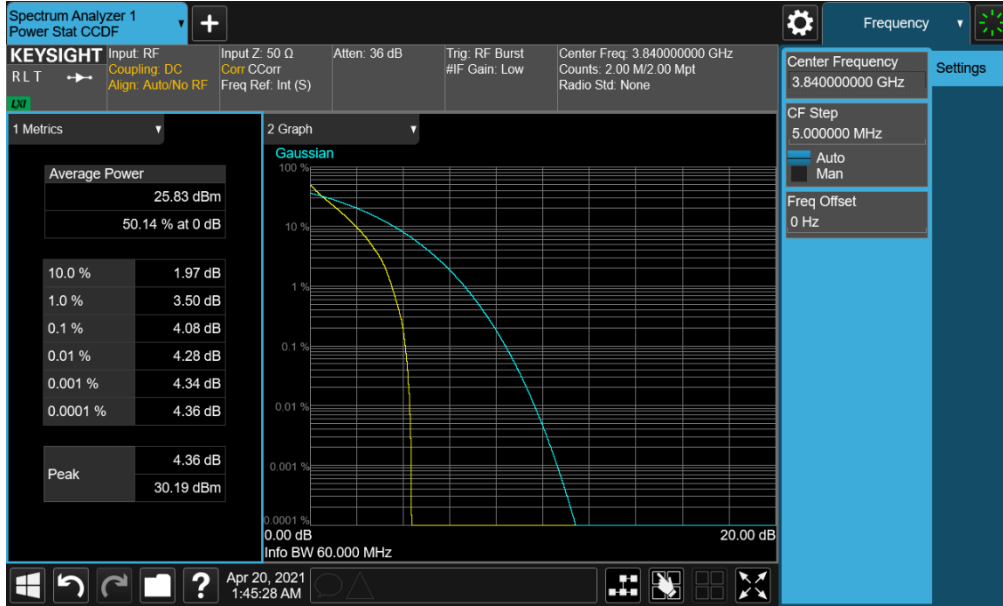
FCC ID: A3LSMF711U	<b>PCTEST</b> Proud to be part of element	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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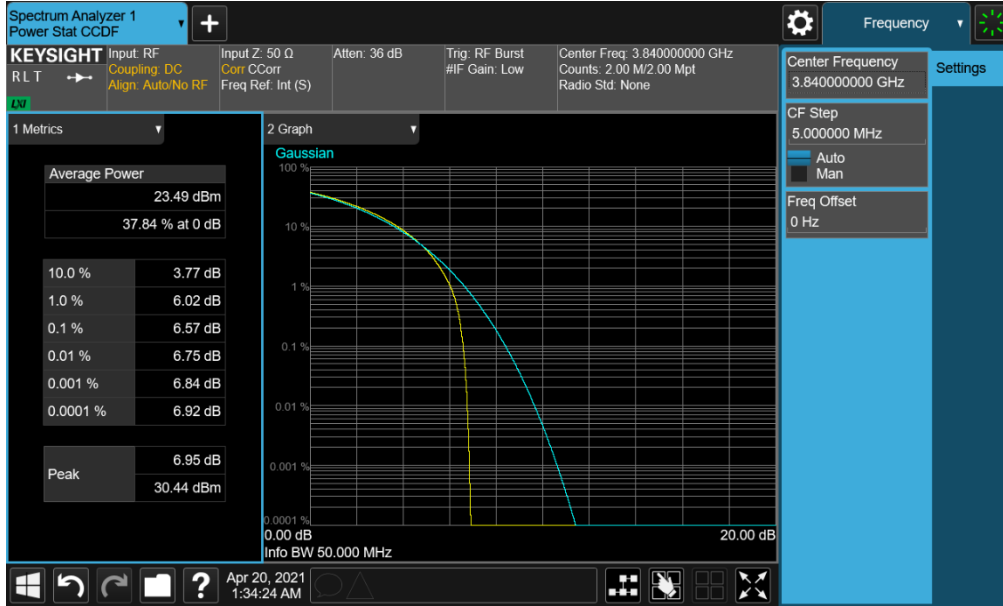


**Plot 7-165. PAR Plot (NR Band n77 PC2 - 60MHz CP-OFDM 256-QAM - Full RB)**

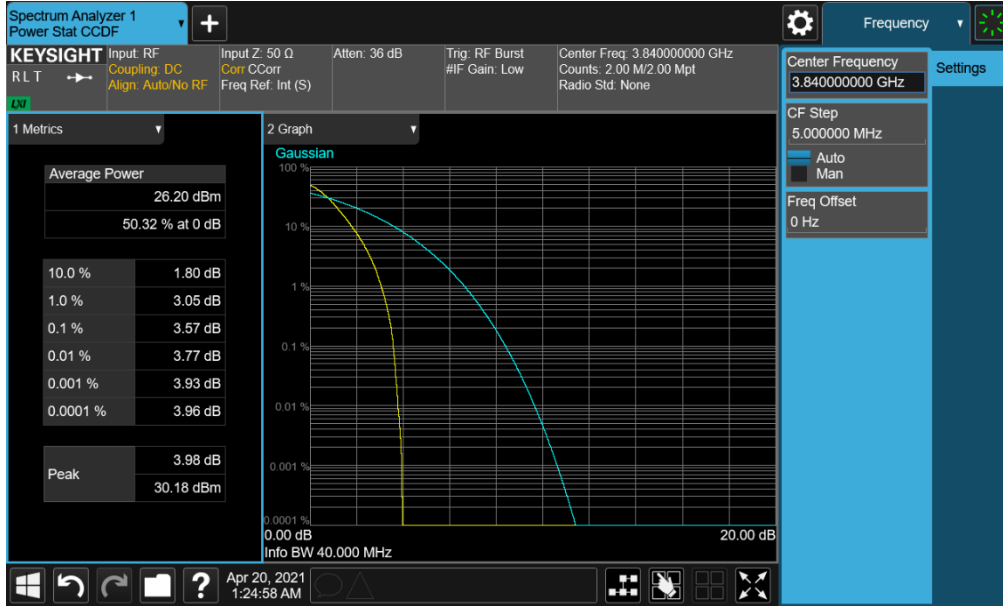


**Plot 7-166. PAR Plot (NR Band n77 PC2 - 50MHz  $\pi/2$  BPSK - Full RB)**

FCC ID: A3LSMF711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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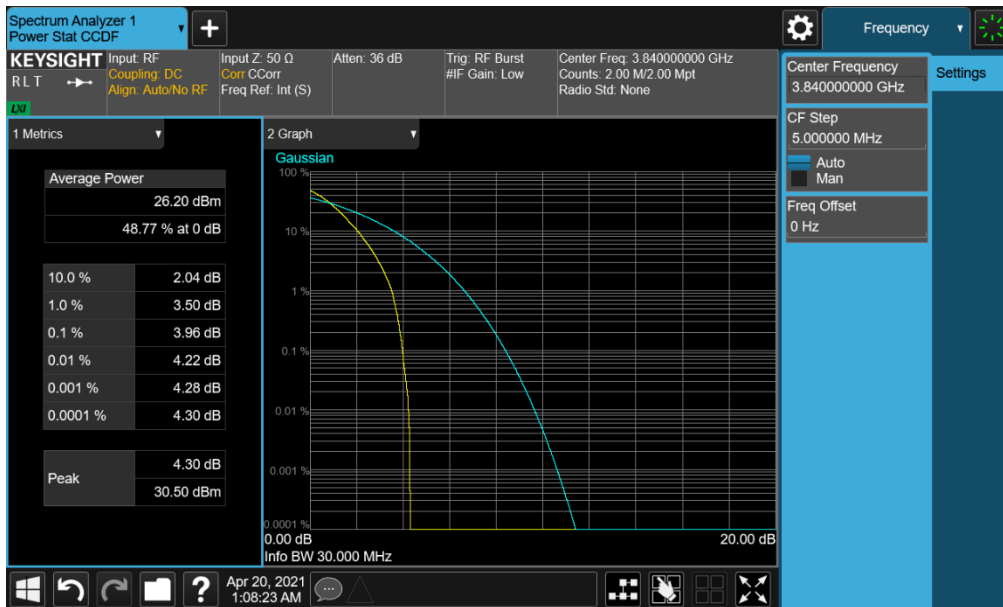
**Plot 7-169. PAR Plot (NR Band n77 PC2 - 40MHz  $\pi/2$  BPSK - Full RB)**



**Plot 7-170. PAR Plot (NR Band n77 PC2 - 40MHz CP-OFDM QPSK - Full RB)**

FCC ID: A3LSMF711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104070032-22.A3L	Test Dates: 04/16/2021 - 06/09/2021	EUT Type: Portable Handset	Page 113 of 161

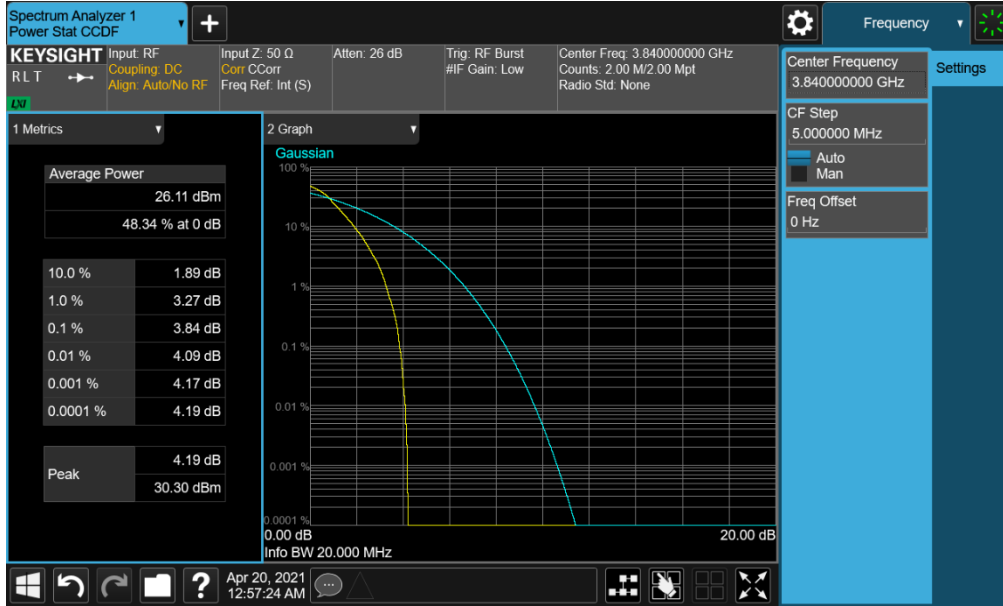




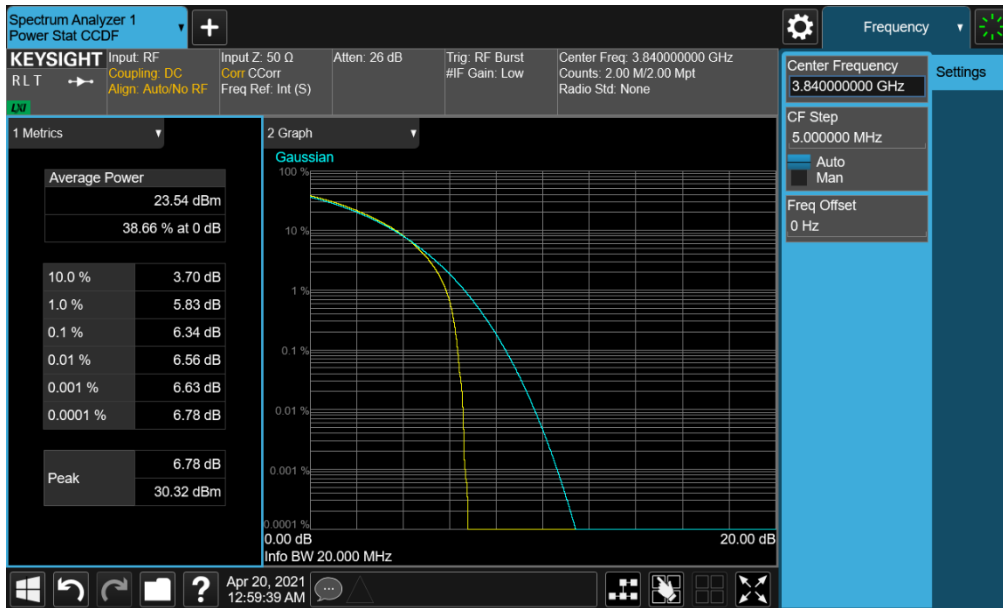
FCC ID: A3LSMF711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104070032-22.A3L	Test Dates: 04/16/2021 - 06/09/2021	EUT Type: Portable Handset	Page 114 of 161



FCC ID: A3LSMF711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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**Plot 7-175. PAR Plot (NR Band n77 PC2 - 20MHz  $\pi/2$  BPSK - Full RB)**



**Plot 7-176. PAR Plot (NR Band n77 PC2 - 20MHz CP-OFDM QPSK - Full RB)**

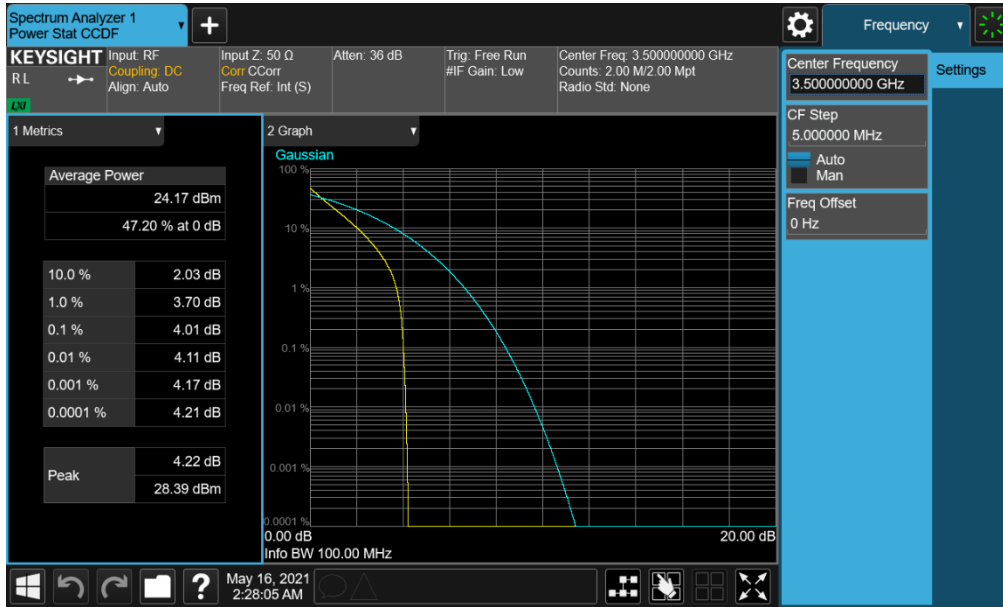
FCC ID: A3LSMF711U	<b>PCTEST</b> Proud to be part of element	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1M2104070032-22.A3L	Test Dates: 04/16/2021 - 06/09/2021	EUT Type: Portable Handset		Page 116 of 161



**Plot 7-177. PAR Plot (NR Band n77 PC2 - 20MHz CP-OFDM 256-QAM - Full RB)**

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## NR Band n77 (PC2) – DoD-Band – SRS-1

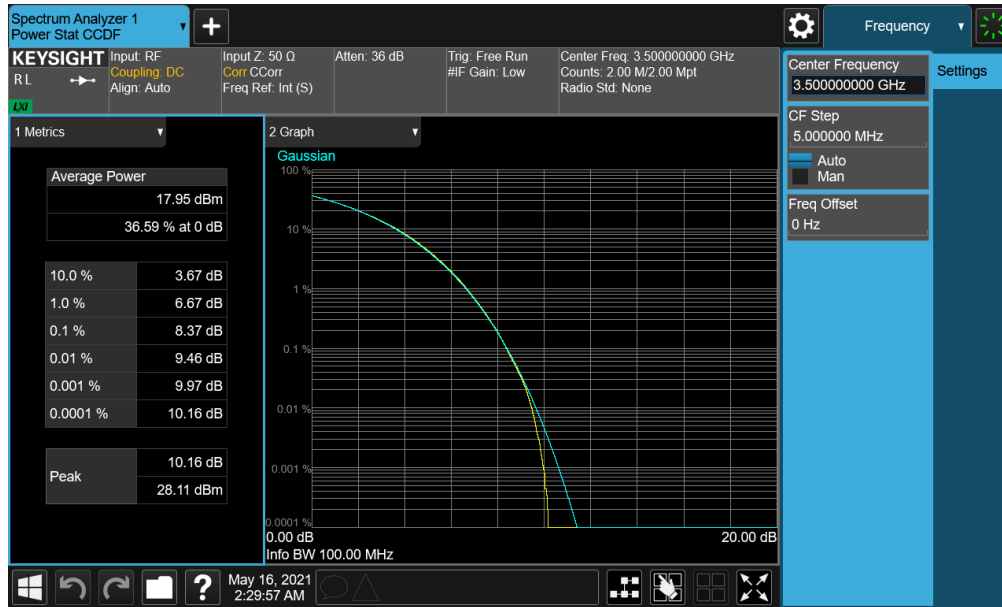


Plot 7-178. PAR Plot (NR Band n77 PC2 - 100MHz  $\pi/2$  BPSK - Full RB)

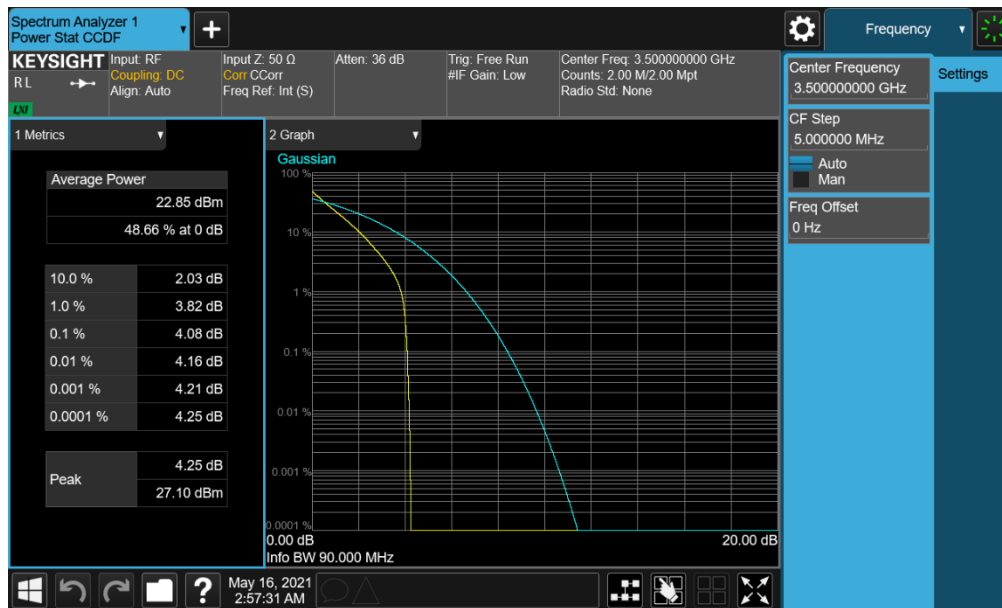


Plot 7-179. PAR Plot (NR Band n77 PC2 - 100MHz CP-OFDM QPSK - Full RB)

FCC ID: A3LSMF711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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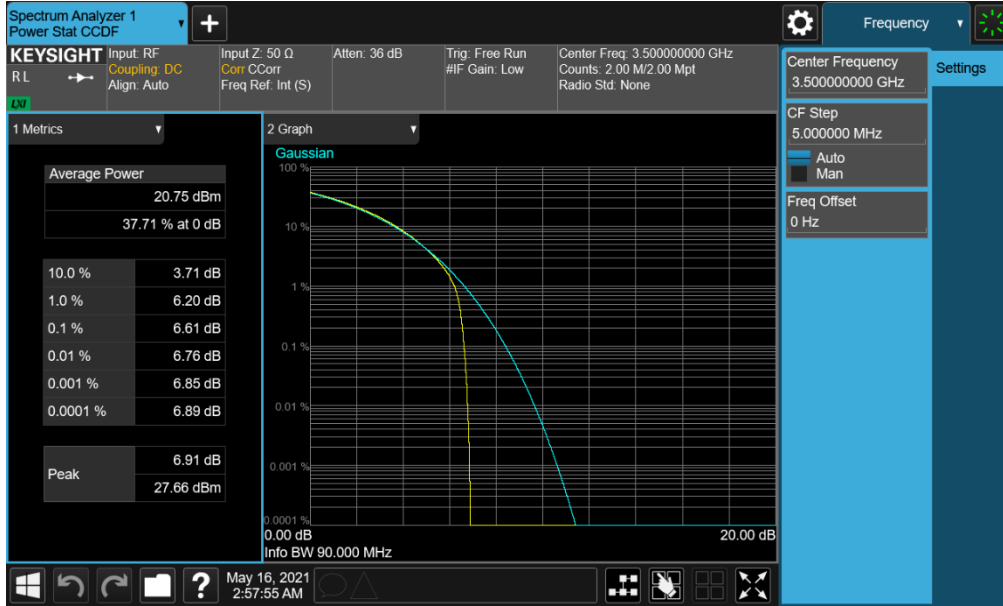


**Plot 7-180. PAR Plot (NR Band n77 PC2 - 100MHz CP-OFDM 256-QAM - Full RB)**



**Plot 7-181. PAR Plot (NR Band n77 PC2 - 90MHz π/2 BPSK - Full RB)**

FCC ID: A3LSMF711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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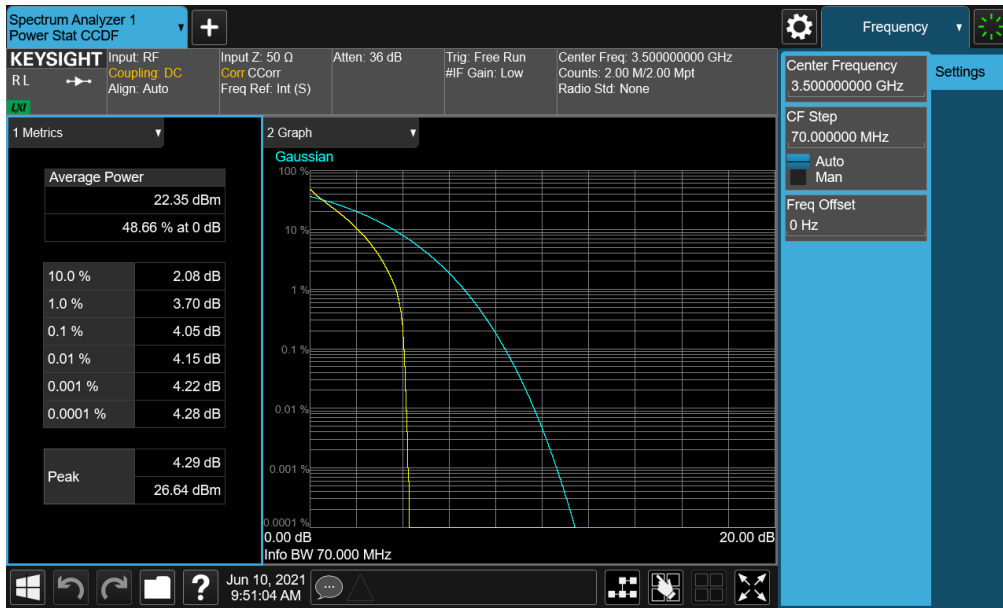


FCC ID: A3LSMF711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104070032-22.A3L	Test Dates: 04/16/2021 - 06/09/2021	EUT Type: Portable Handset	Page 120 of 161



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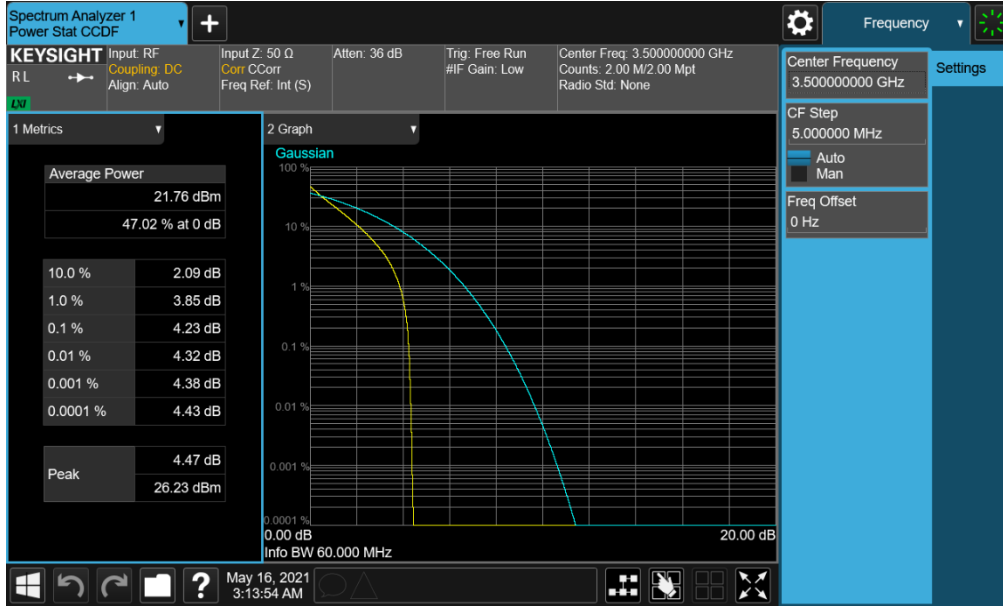




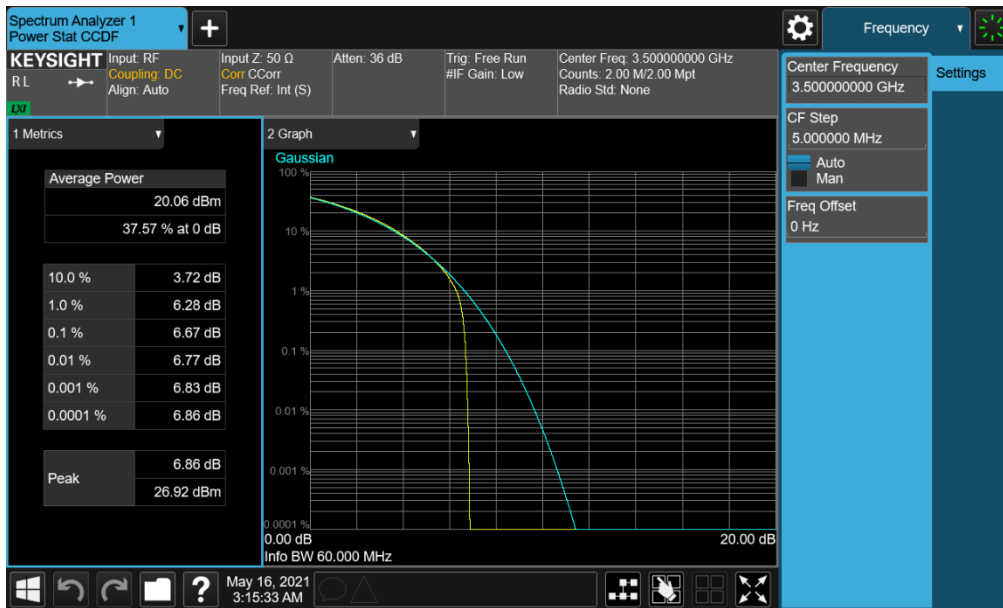
FCC ID: A3LSMF711U	<b>PCTEST</b> Proud to be part of element	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1M2104070032-22.A3L	Test Dates: 04/16/2021 - 06/09/2021	EUT Type: Portable Handset		Page 122 of 161



FCC ID: A3LSMF711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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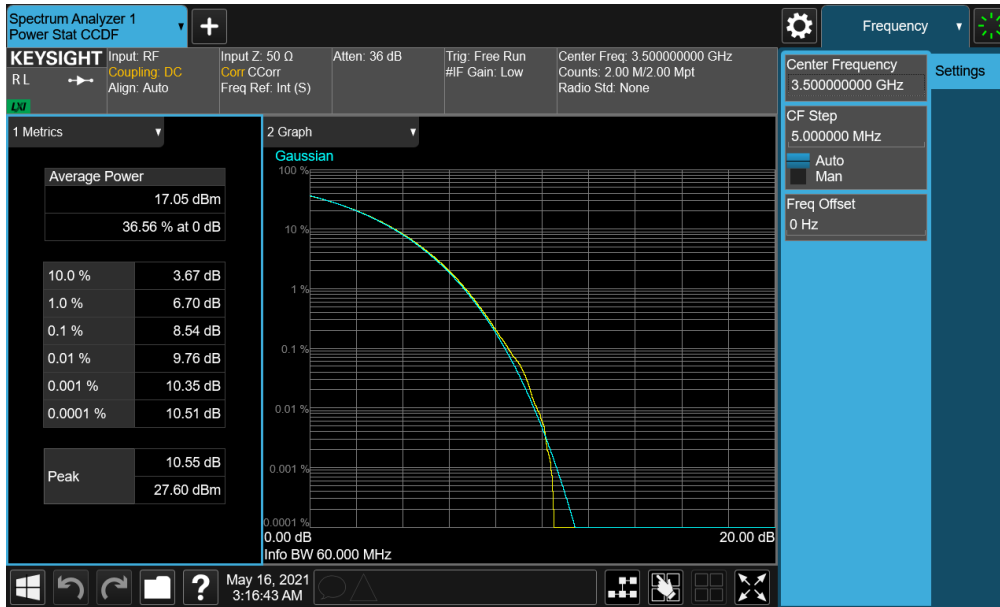


**Plot 7-190. PAR Plot (NR Band n77 PC2 - 60MHz  $\pi/2$  BPSK - Full RB)**

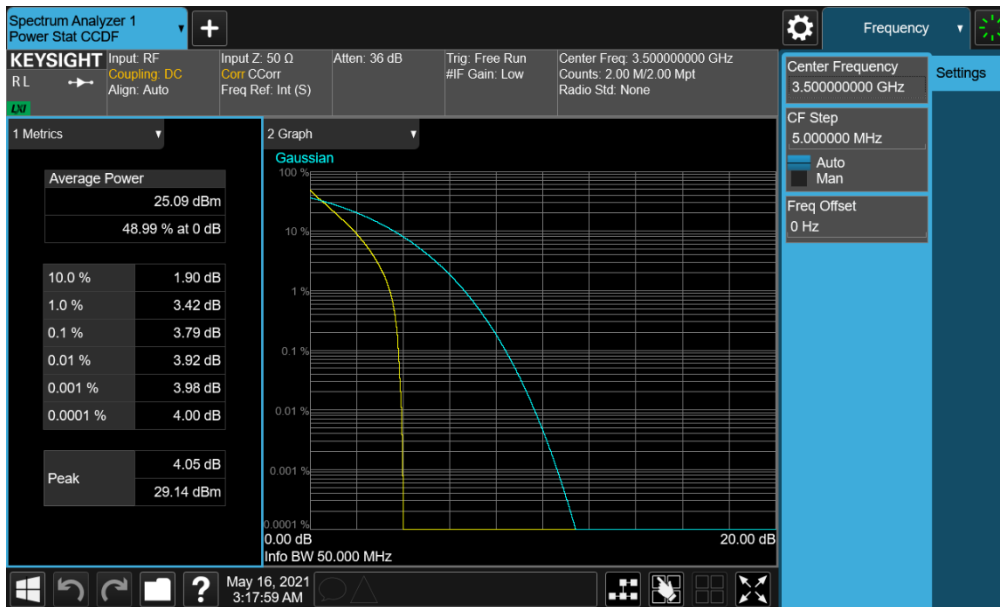


**Plot 7-191. PAR Plot (NR Band n77 PC2 - 60MHz CP-OFDM QPSK - Full RB)**

FCC ID: A3LSMF711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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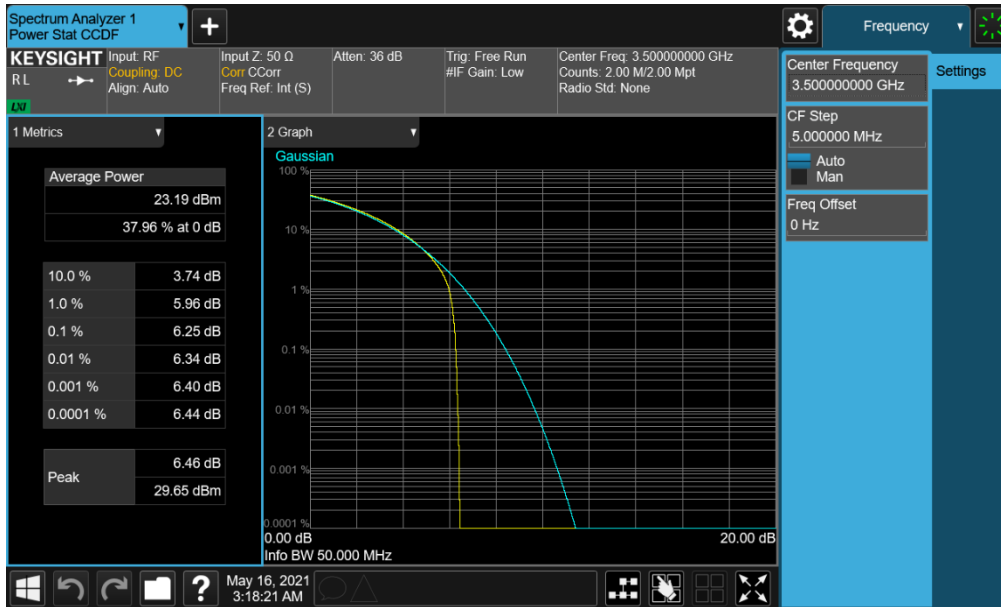


**Plot 7-192. PAR Plot (NR Band n77 PC2 - 60MHz CP-OFDM 256-QAM - Full RB)**



**Plot 7-193. PAR Plot (NR Band n77 PC2 - 50MHz  $\pi/2$  BPSK - Full RB)**

FCC ID: A3LSMF711U	<b>PCTEST</b> Proud to be part of element	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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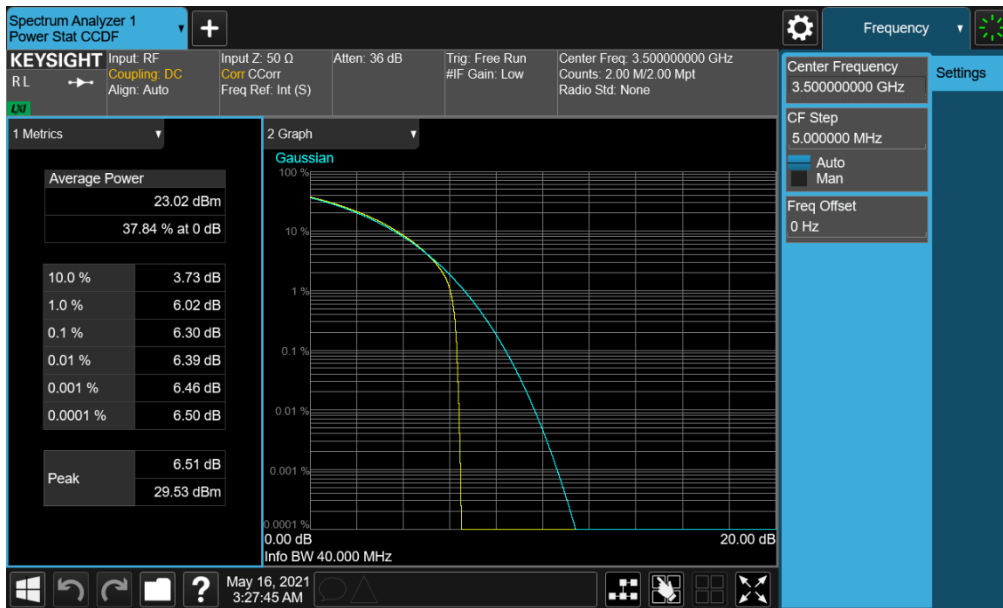
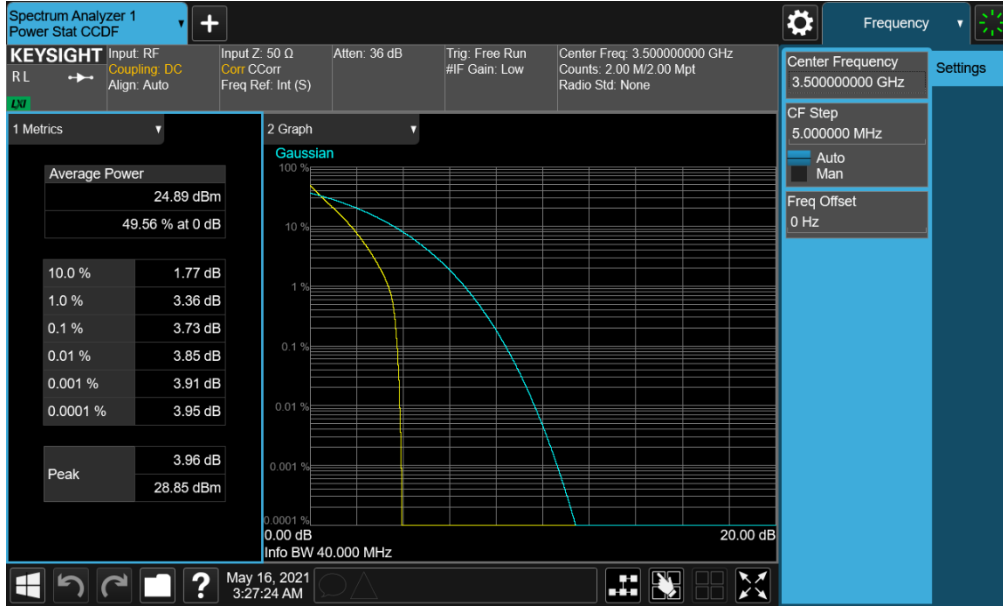


**Plot 7-194. PAR Plot (NR Band n77 PC2 - 50MHz CP-OFDM QPSK - Full RB)**



**Plot 7-195. PAR Plot (NR Band n77 PC2 - 50MHz CP-OFDM 256-QAM - Full RB)**

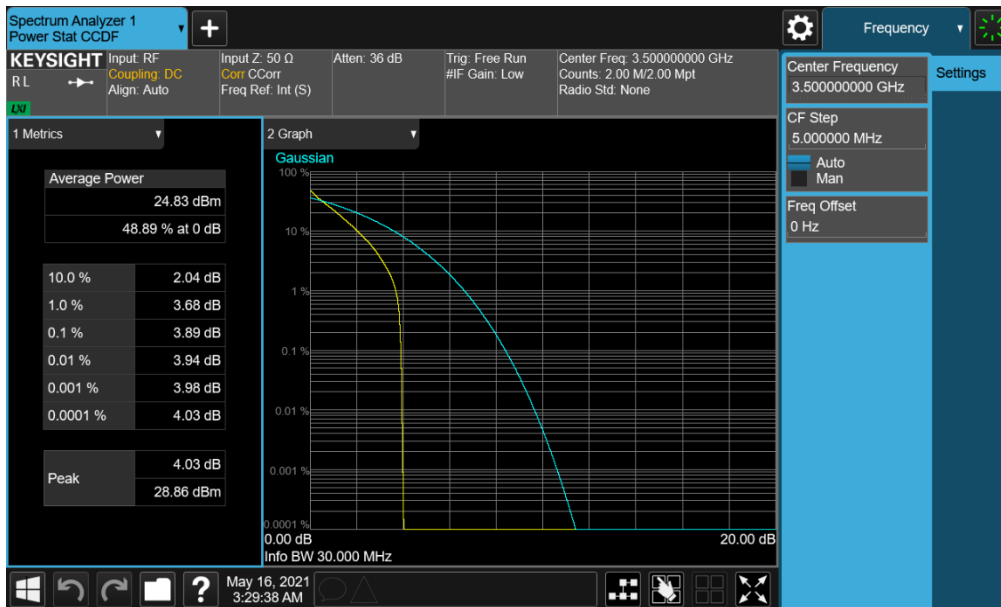
FCC ID: A3LSMF711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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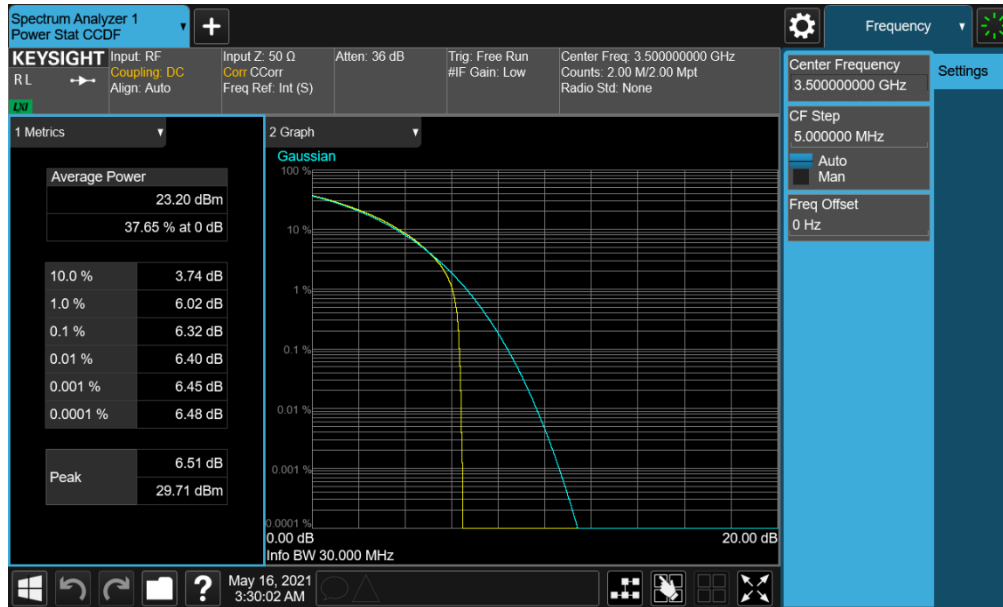


**Plot 7-198. PAR Plot (NR Band n77 PC2 - 40MHz CP-OFDM 256-QAM - Full RB)**



**Plot 7-199. PAR Plot (NR Band n77 PC2 - 30MHz  $\pi/2$  BPSK - Full RB)**

FCC ID: A3LSMF711U	<b>PCTEST</b> Proud to be part of element	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
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**Plot 7-204. PAR Plot (NR Band n77 PC2 - 20MHz CP-OFDM 256-QAM - Full RB)**

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## 7.7 Radiated Power (EIRP)

### Test Overview

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 maximum power, and at the appropriate frequencies.



### Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.2.1

ANSI/TIA-603-E-2016 – Section 2.2.17

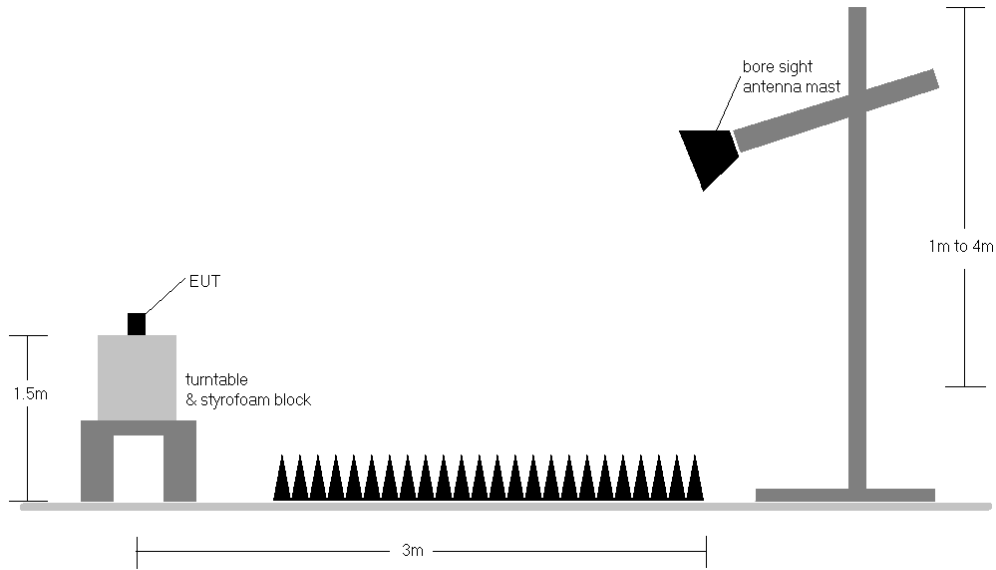
### Test Settings

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) 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 EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case setup is reported in the tables below.
- 4) 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.

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