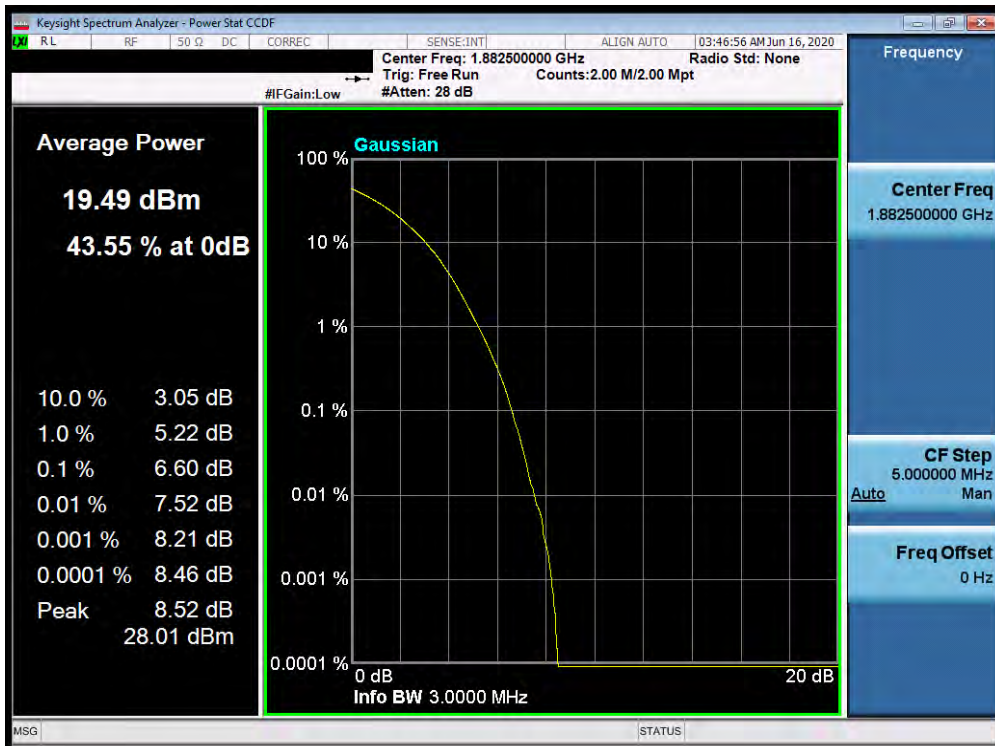
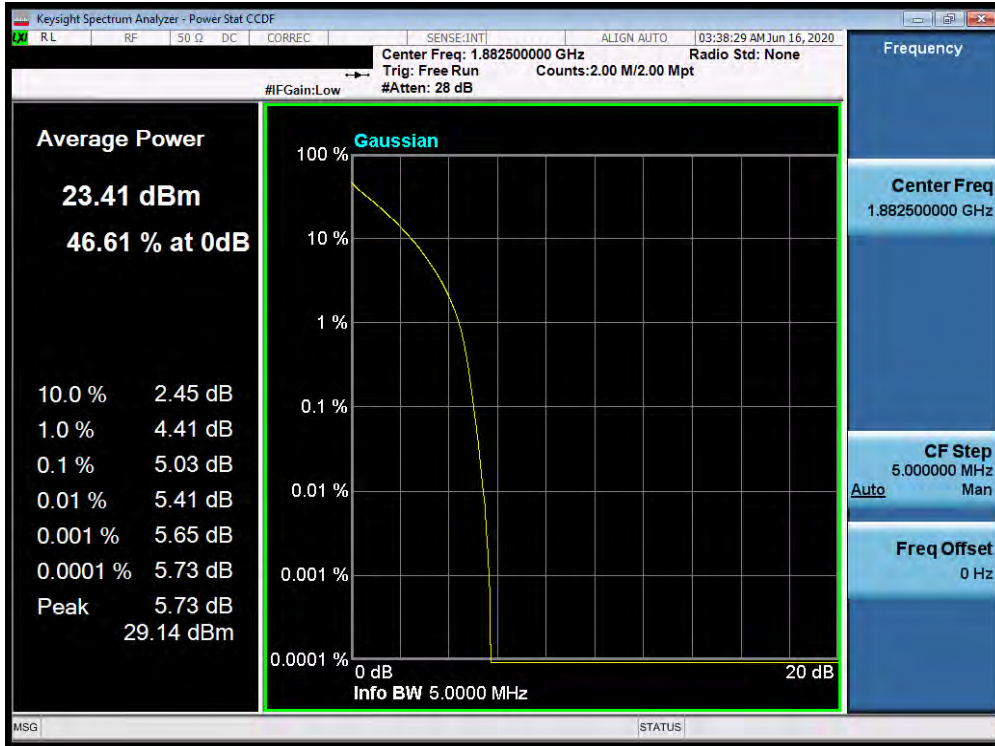


Plot 7-599. PAR Plot (Band 25/2 - 3.0MHz 64-QAM - Full RB Configuration)

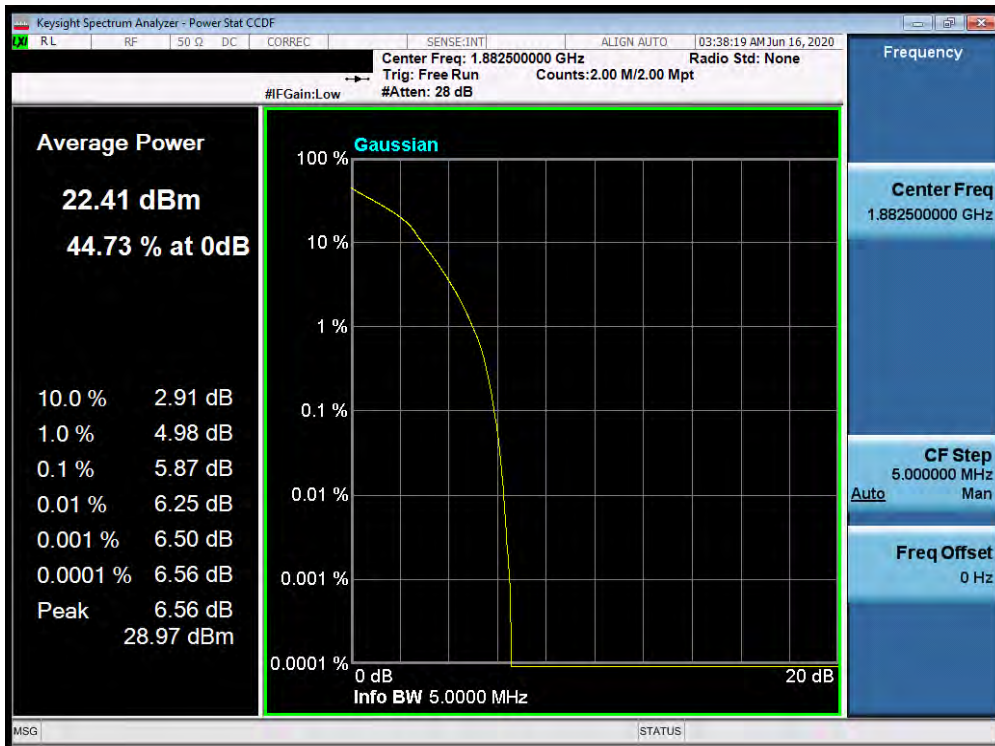


Plot 7-600. PAR Plot (Band 25/2 - 3.0MHz 256-QAM - Full RB Configuration)

FCC ID: A3LSMF707U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2005040080-03.A3L	Test Dates: 05/04 – 07/11/2020	EUT Type: Portable Handset		Page 329 of 467

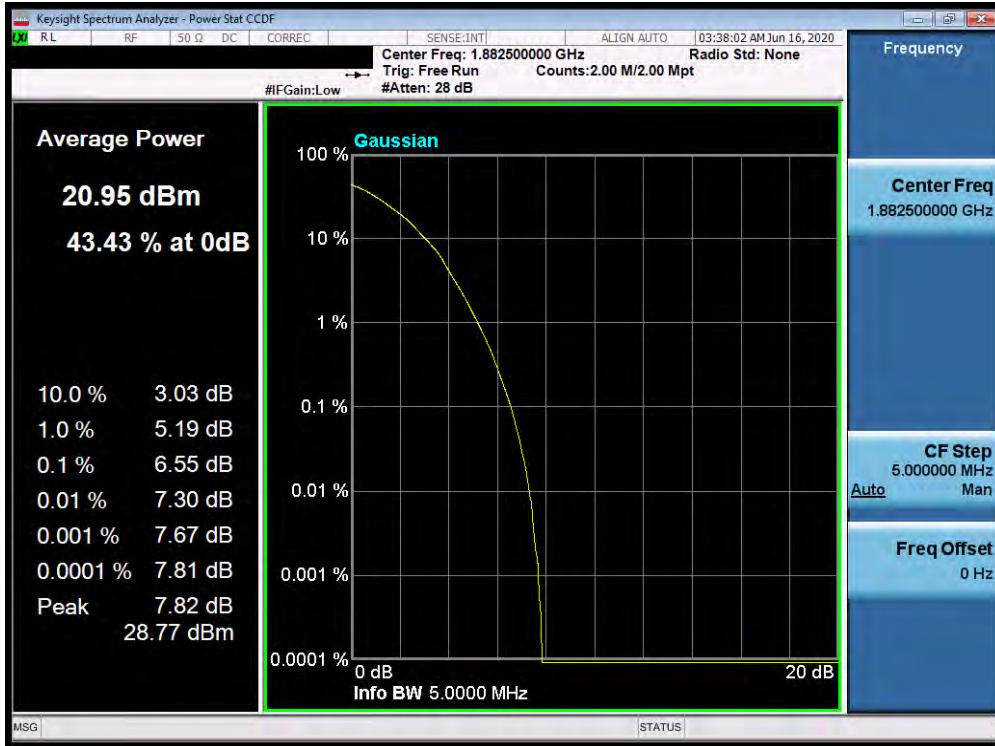


Plot 7-601. PAR Plot (Band 25/2 - 5.0MHz QPSK - Full RB Configuration)

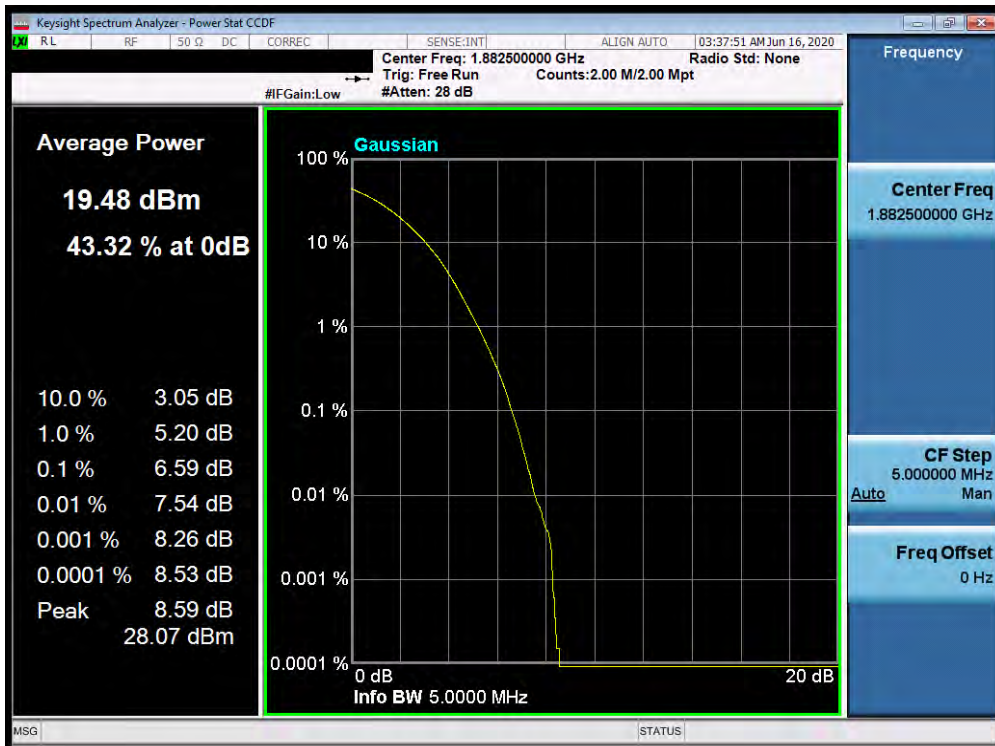


Plot 7-602. PAR Plot (Band 25/2 - 5.0MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMF707U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2005040080-03.A3L	Test Dates: 05/04 - 07/11/2020	EUT Type: Portable Handset		Page 330 of 467

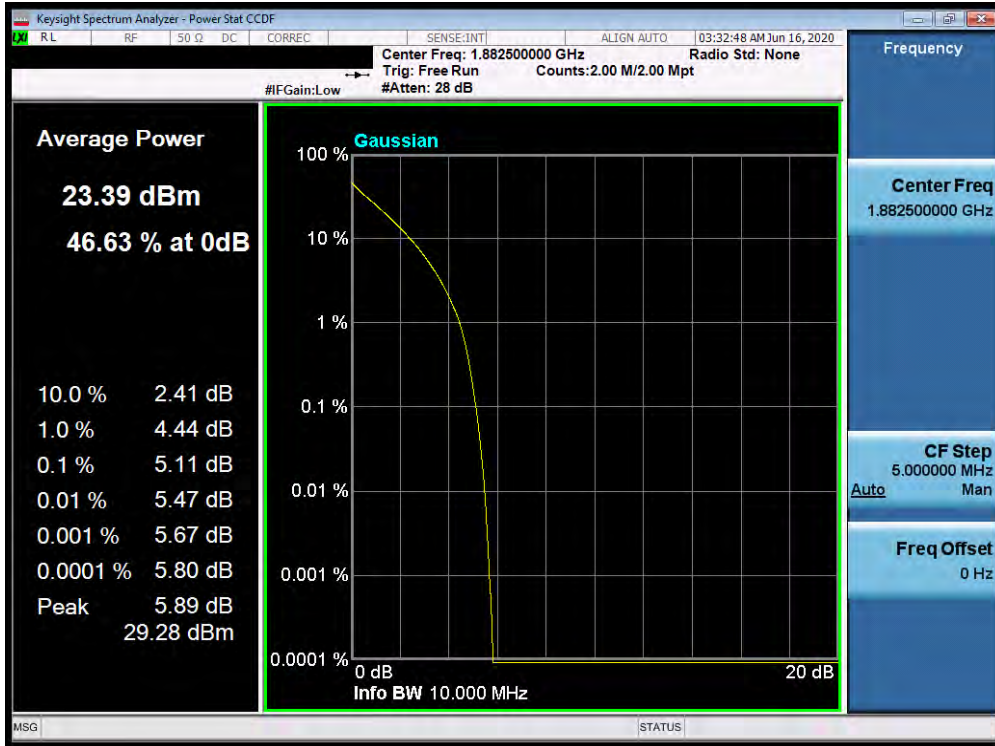


Plot 7-603. PAR Plot (Band 25/2 - 5.0MHz 64-QAM - Full RB Configuration)

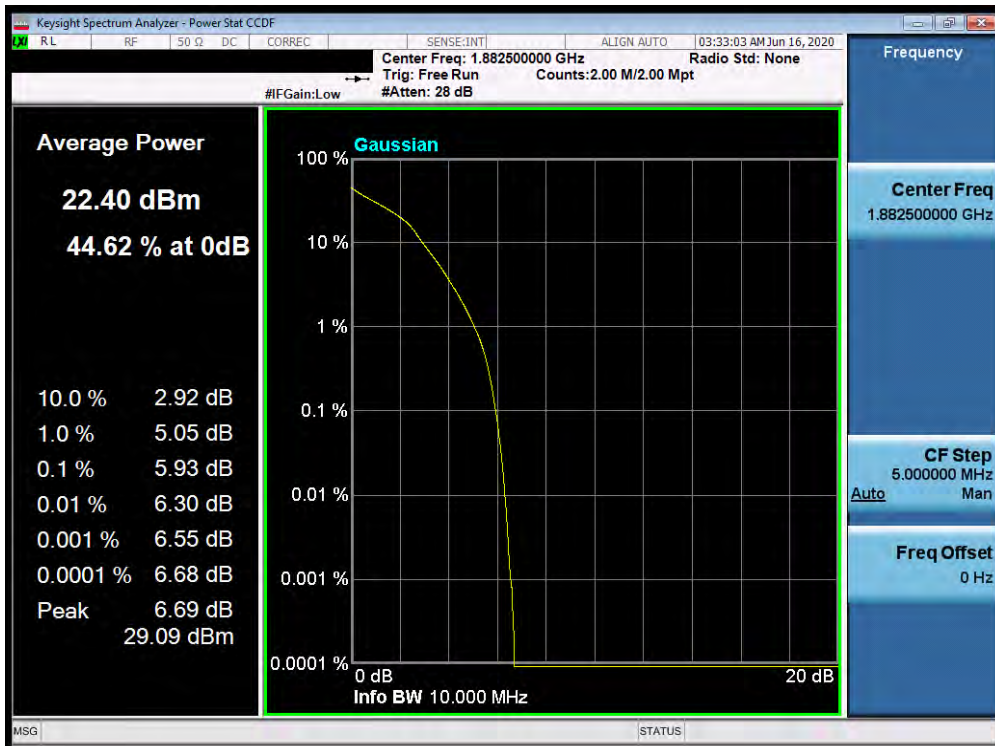


Plot 7-604. PAR Plot (Band 25/2 - 5.0MHz 256-QAM - Full RB Configuration)

FCC ID: A3LSMF707U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2005040080-03.A3L	Test Dates: 05/04 - 07/11/2020	EUT Type: Portable Handset		Page 331 of 467

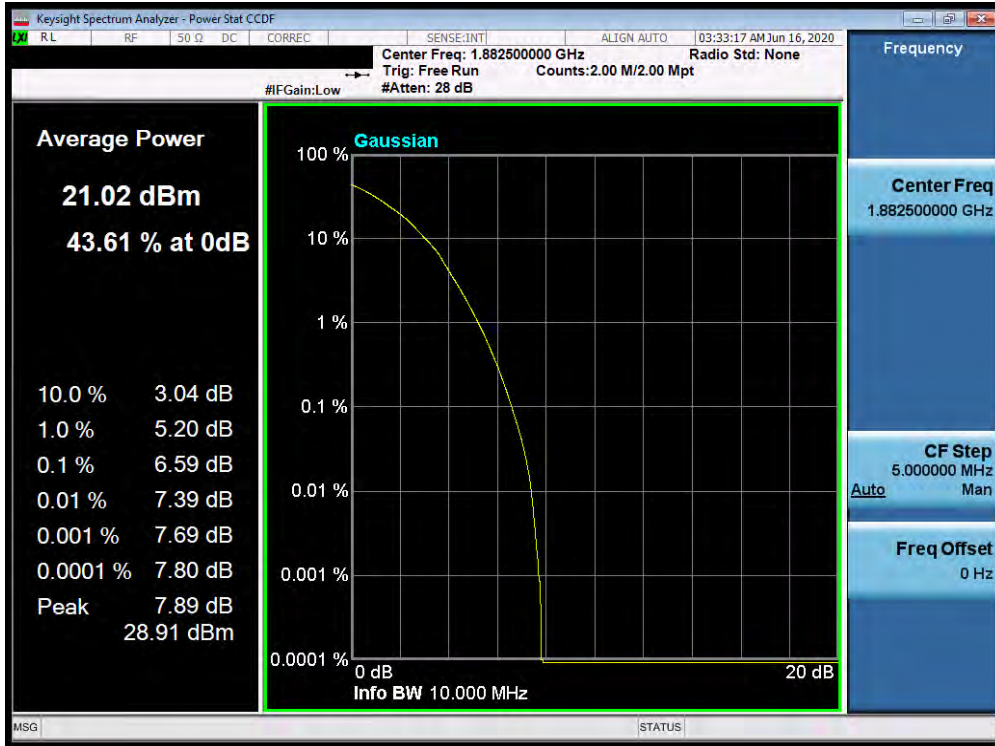


Plot 7-605. PAR Plot (Band 25/2 - 10.0MHz QPSK - Full RB Configuration)

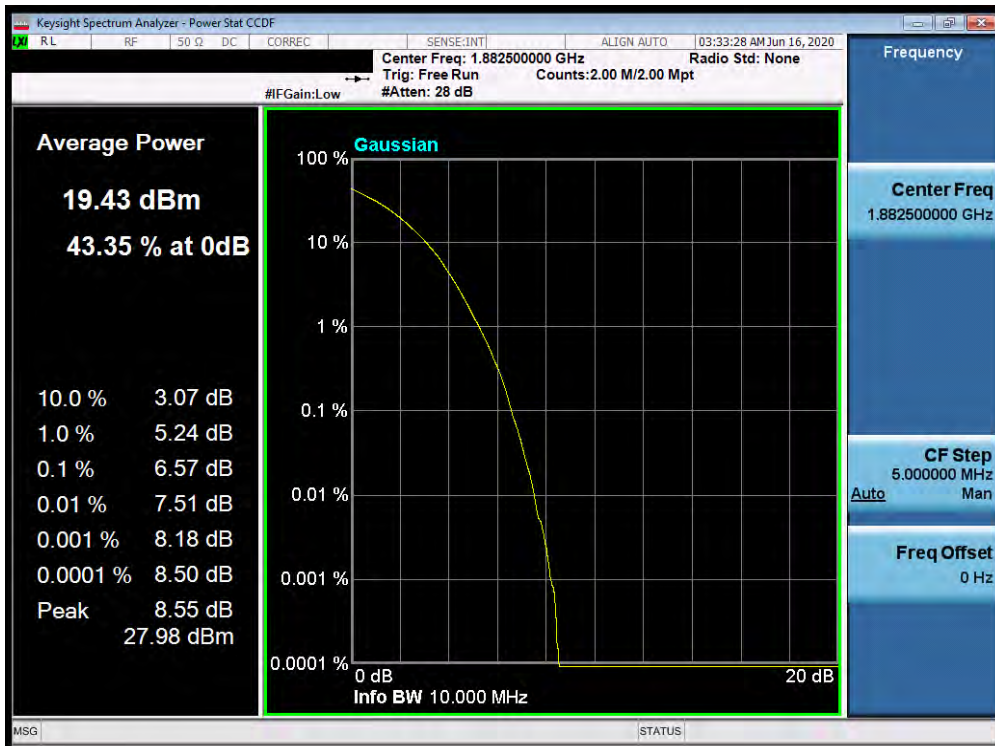


Plot 7-606. PAR Plot (Band 25/2 - 10.0MHz 16-QAM - Full RB Configuration)



FCC ID: A3LSMF707U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2005040080-03.A3L	Test Dates: 05/04 - 07/11/2020	EUT Type: Portable Handset		Page 332 of 467

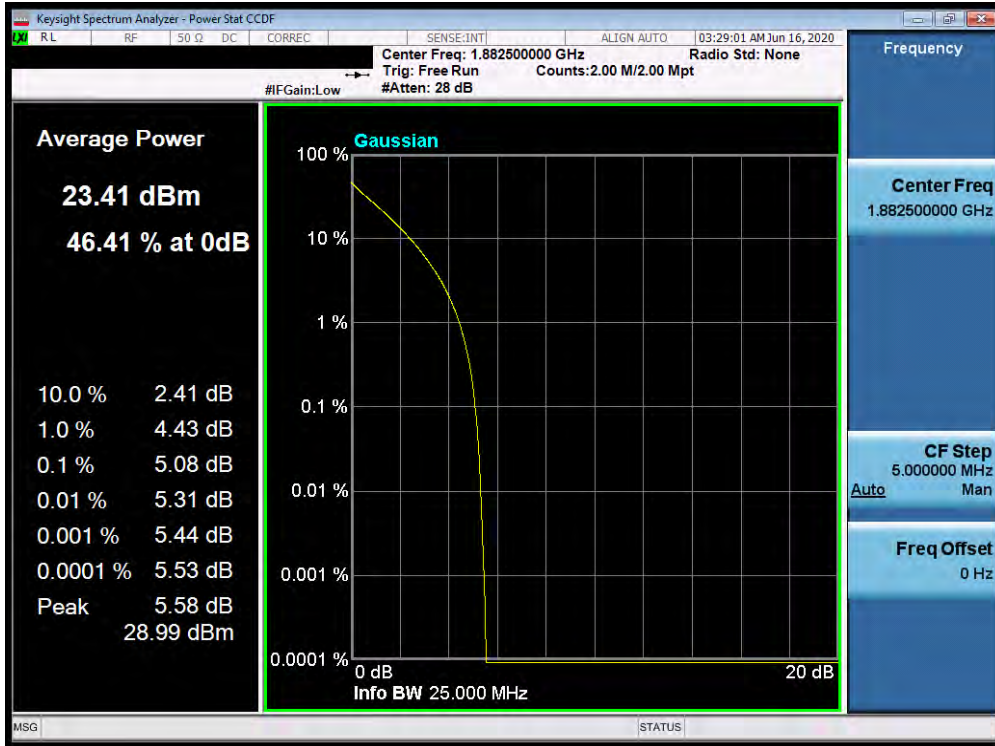


Plot 7-607. PAR Plot (Band 25/2 - 10.0MHz 64-QAM - Full RB Configuration)

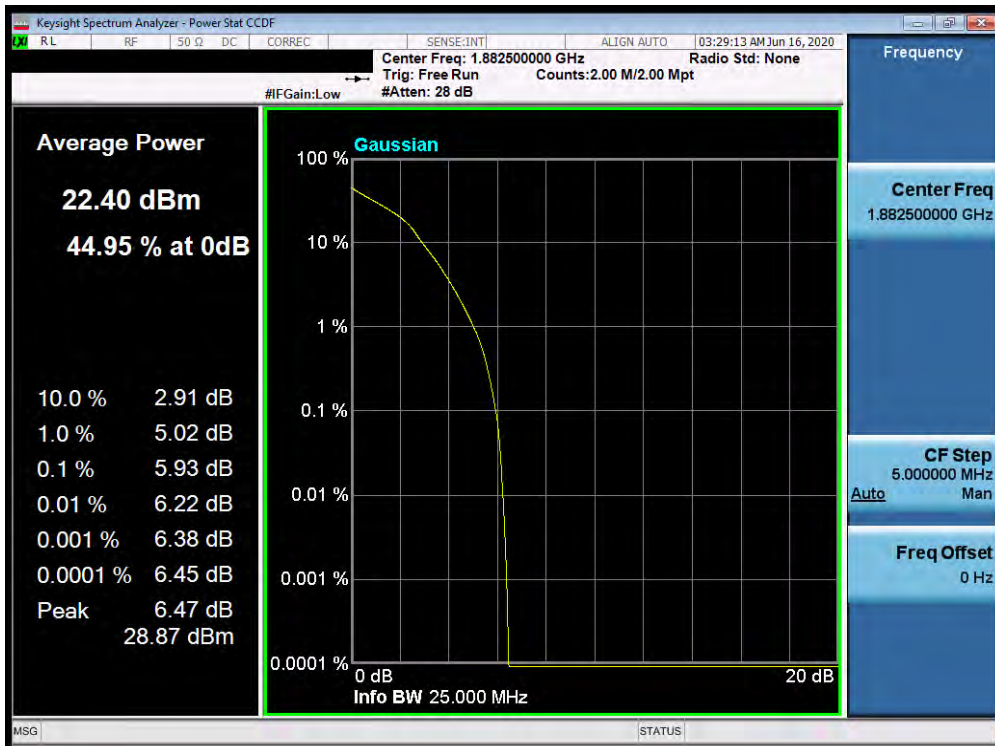


Plot 7-608. PAR Plot (Band 25/2 - 10.0MHz 256-QAM - Full RB Configuration)

FCC ID: A3LSMF707U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2005040080-03.A3L	Test Dates: 05/04 - 07/11/2020	EUT Type: Portable Handset		Page 333 of 467

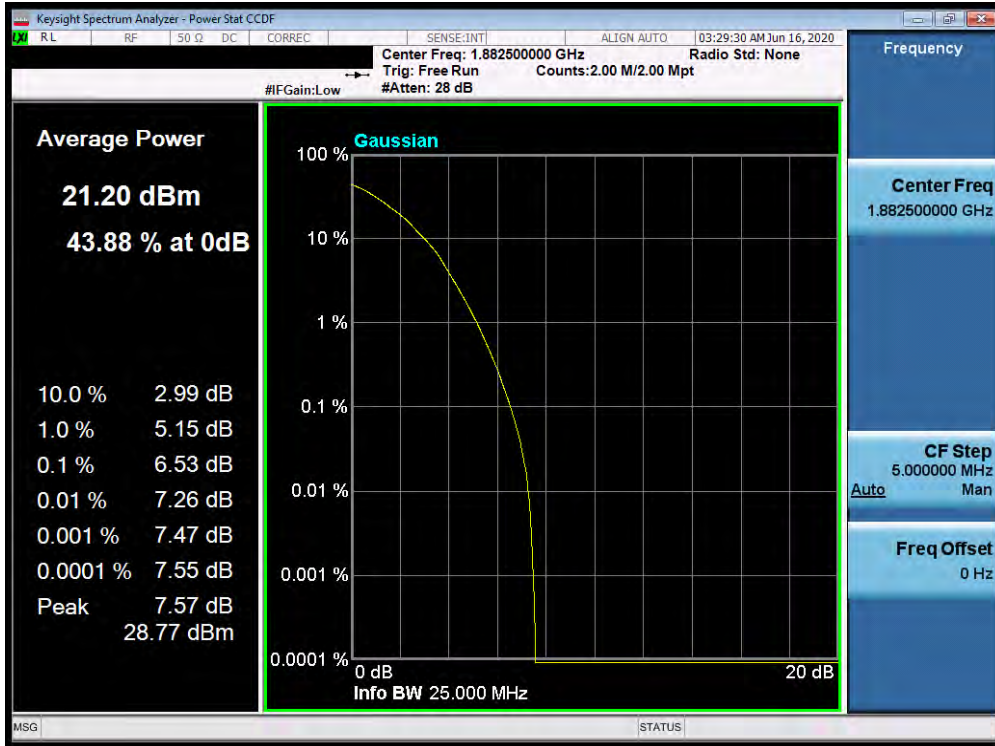


Plot 7-609. PAR Plot (Band 25/2 - 15.0MHz QPSK - Full RB Configuration)

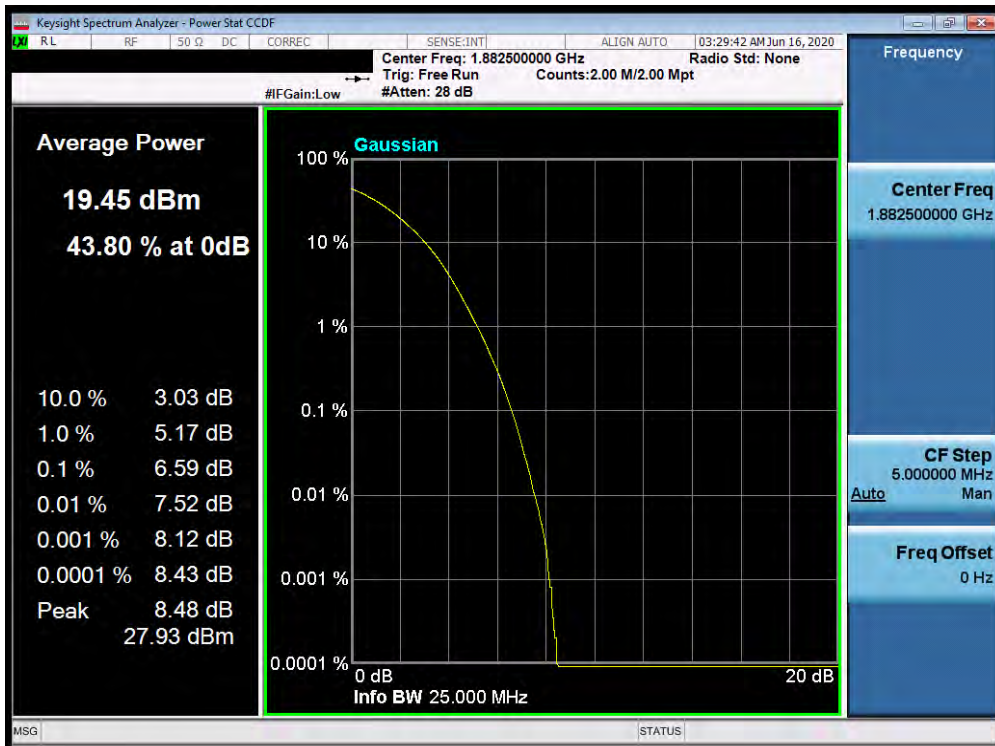


Plot 7-610. PAR Plot (Band 25/2 - 15.0MHz 16-QAM - Full RB Configuration)


FCC ID: A3LSMF707U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2005040080-03.A3L	Test Dates: 05/04 - 07/11/2020	EUT Type: Portable Handset		Page 334 of 467

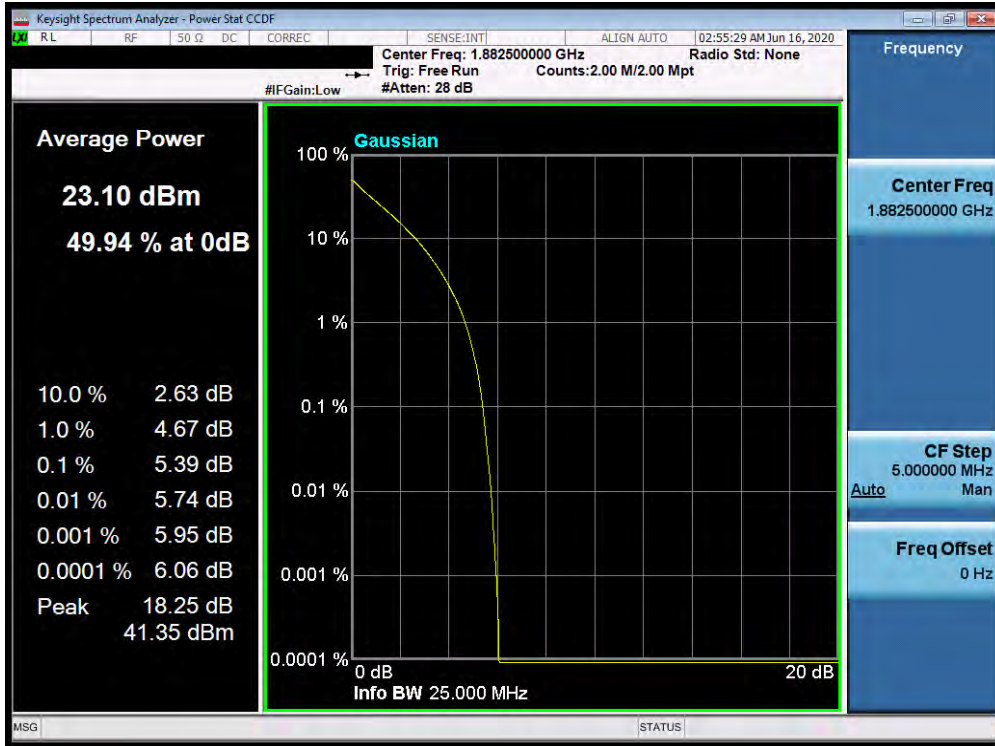


Plot 7-611. PAR Plot (Band 25/2 - 15.0MHz 64-QAM - Full RB Configuration)

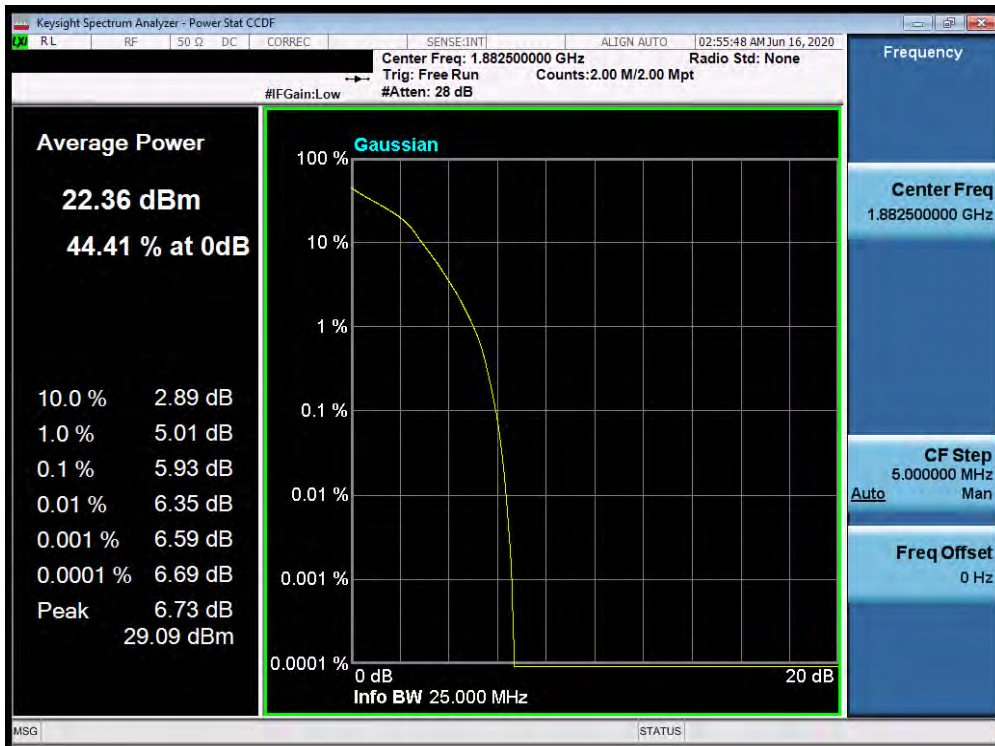


Plot 7-612. PAR Plot (Band 25/2 - 15.0MHz 256-QAM - Full RB Configuration)

FCC ID: A3LSMF707U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2005040080-03.A3L	Test Dates: 05/04 - 07/11/2020	EUT Type: Portable Handset		Page 335 of 467

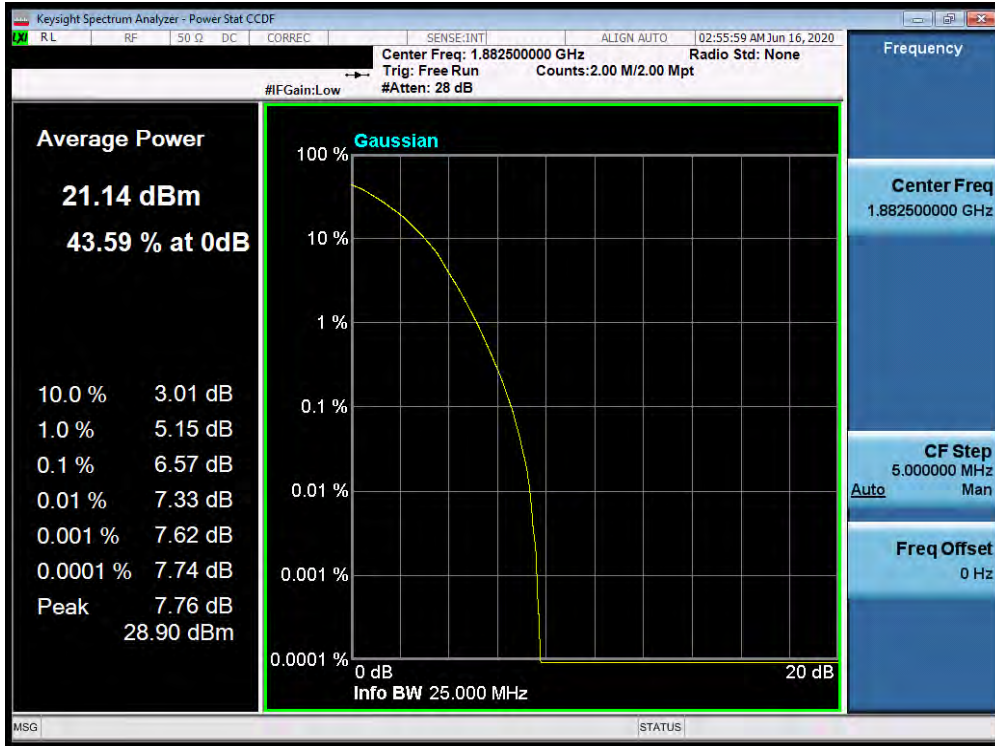


Plot 7-613. PAR Plot (Band 25/2 - 20.0MHz QPSK - Full RB Configuration)

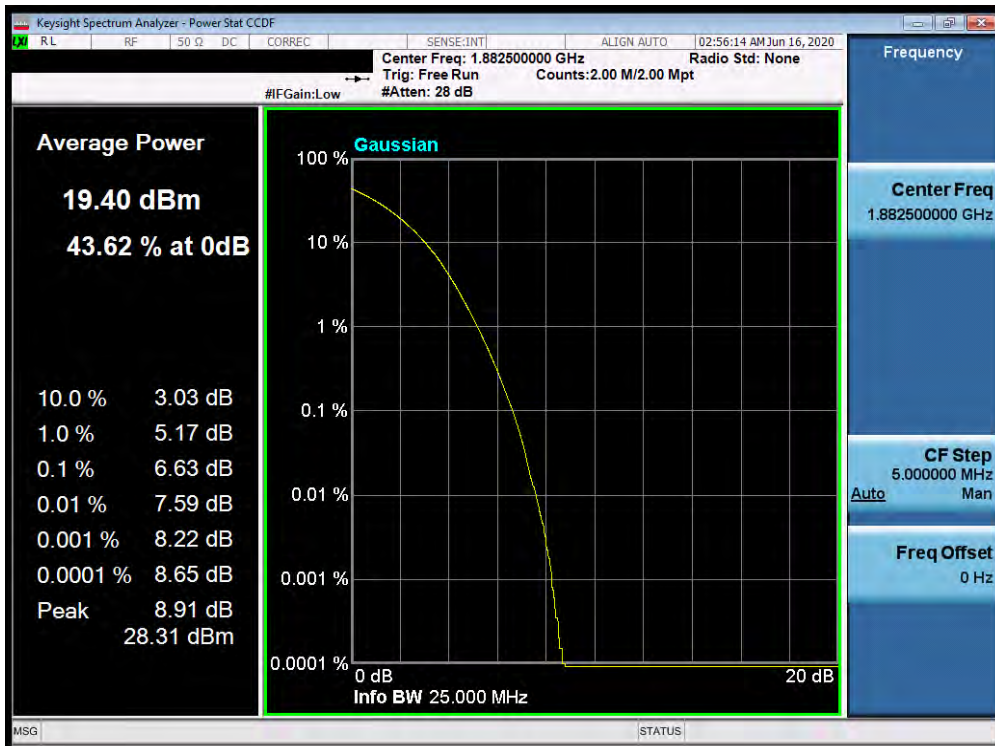


Plot 7-614. PAR Plot (Band 25/2 - 20.0MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMF707U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2005040080-03.A3L	Test Dates: 05/04 - 07/11/2020	EUT Type: Portable Handset		Page 336 of 467



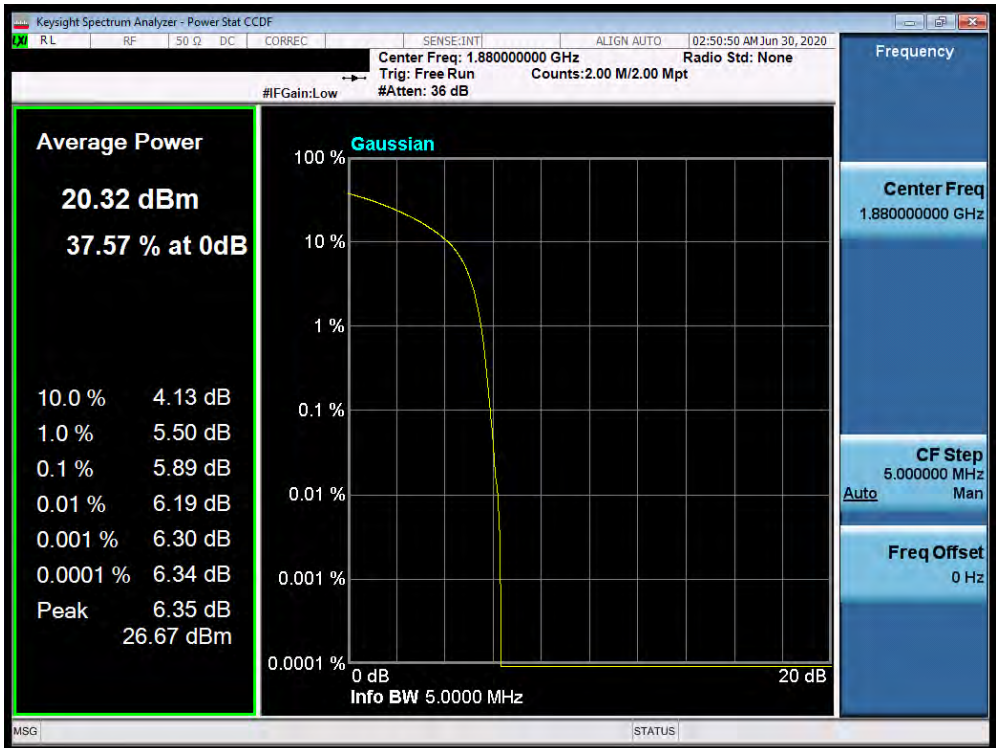
Plot 7-615. PAR Plot (Band 25/2 - 20.0MHz 64-QAM - Full RB Configuration)



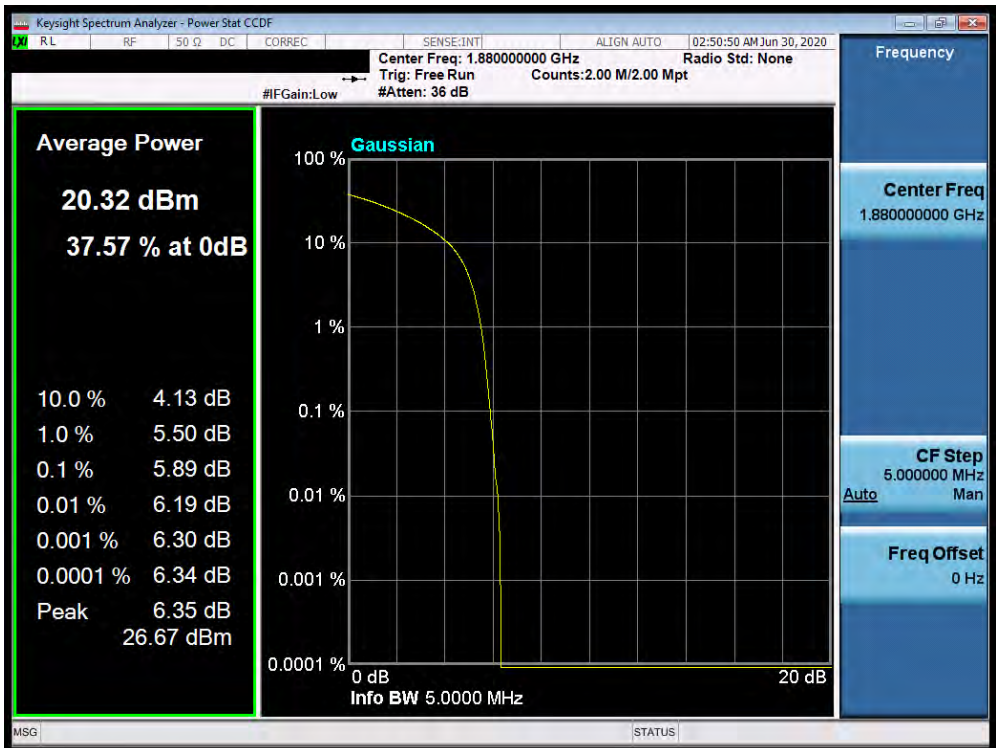
Plot 7-616. PAR Plot (Band 25/2 - 20.0MHz 256-QAM - Full RB Configuration)

FCC ID: A3LSMF707U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2005040080-03.A3L	Test Dates: 05/04 - 07/11/2020	EUT Type: Portable Handset		Page 337 of 467

NR Band n25/2

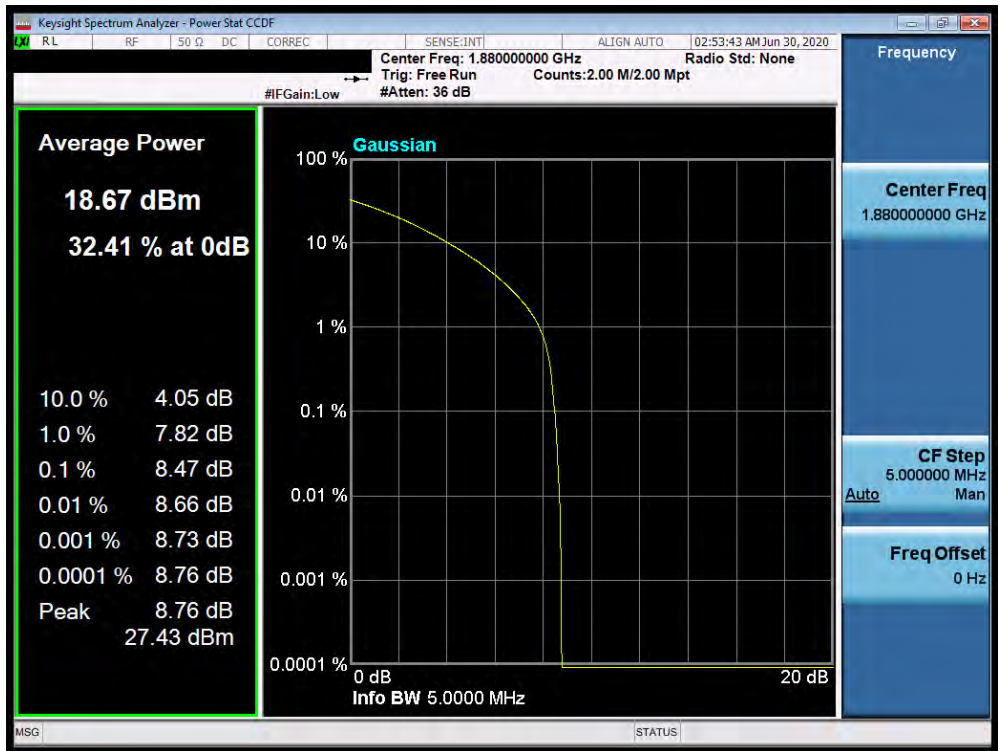


Plot 7-617. PAR Plot (Band n25/2 - 5.0MHz DFT-s-OFDM BPSK - Full RB Configuration)

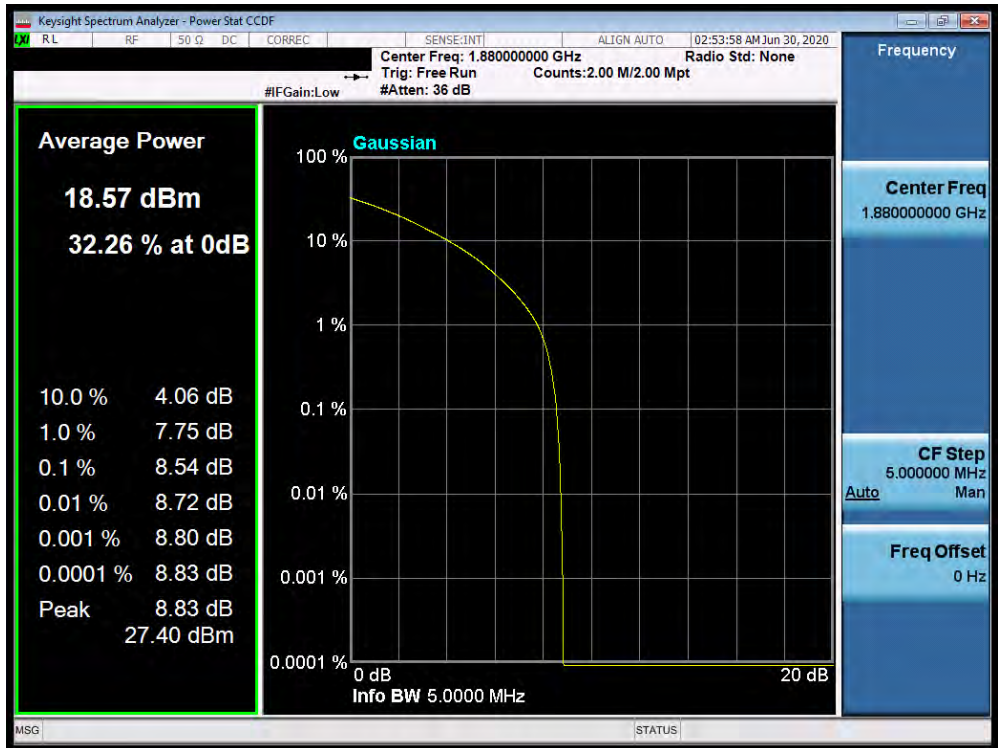


Plot 7-618. PAR Plot (Band n25/2 - 5.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMF707U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2005040080-03.A3L	Test Dates: 05/04 – 07/11/2020	EUT Type: Portable Handset		Page 338 of 467

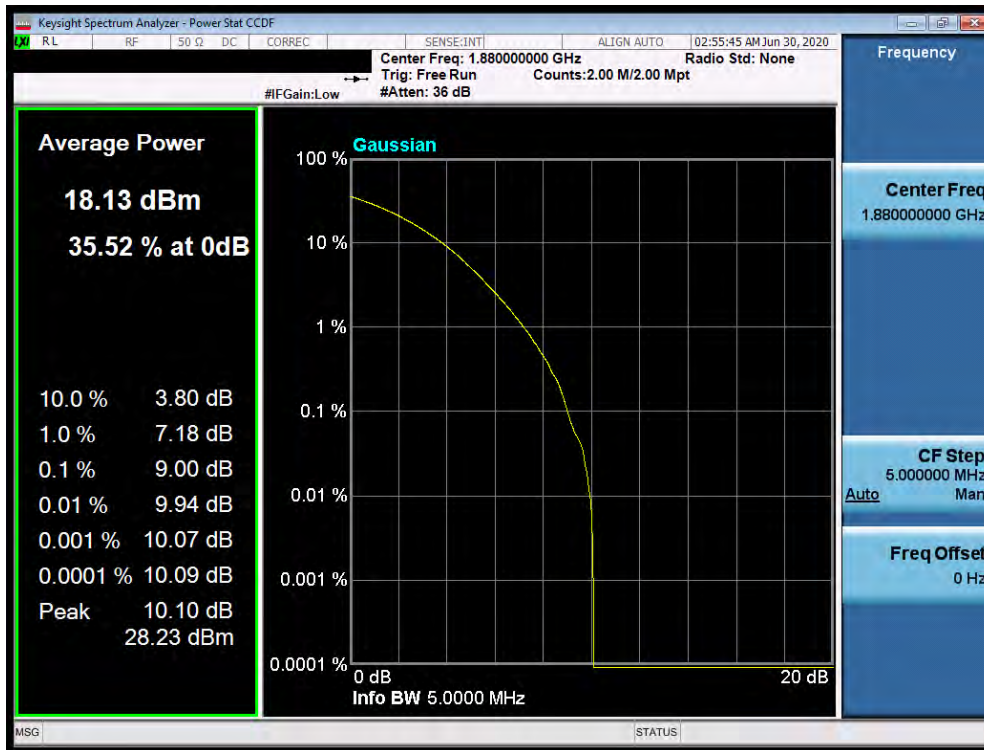


Plot 7-619. PAR Plot (Band n25/2 - 5.0MHz 16-QAM - Full RB Configuration)

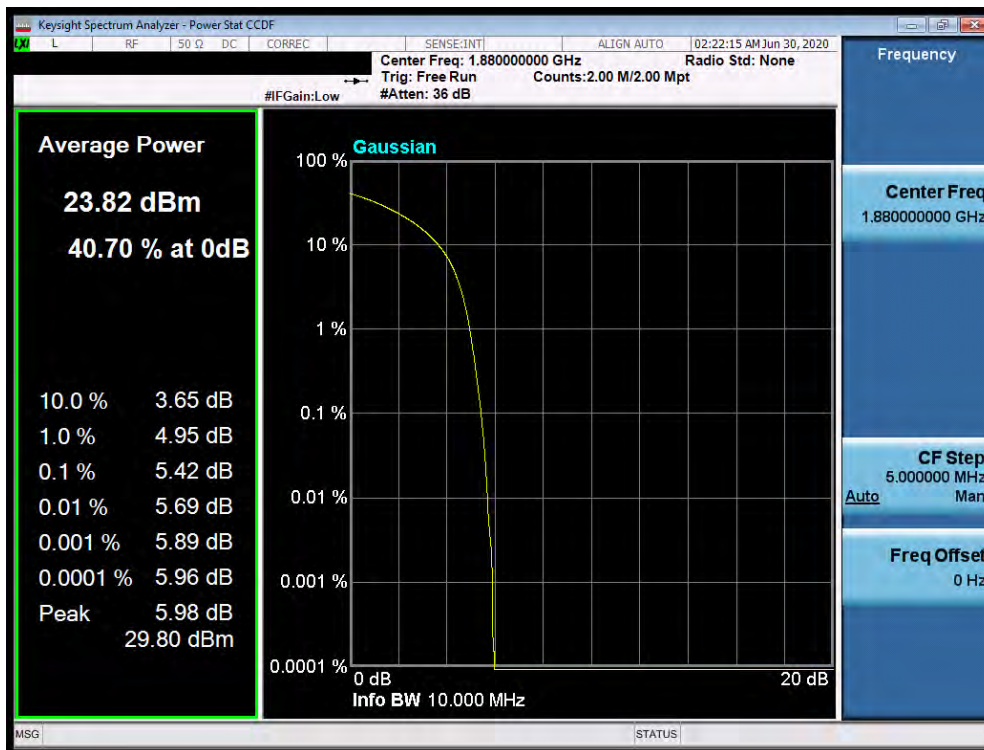


Plot 7-620. PAR Plot (Band n25/2 - 5.0MHz 64-QAM - Full RB Configuration)



FCC ID: A3LSMF707U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2005040080-03.A3L	Test Dates: 05/04 - 07/11/2020	EUT Type: Portable Handset		Page 339 of 467

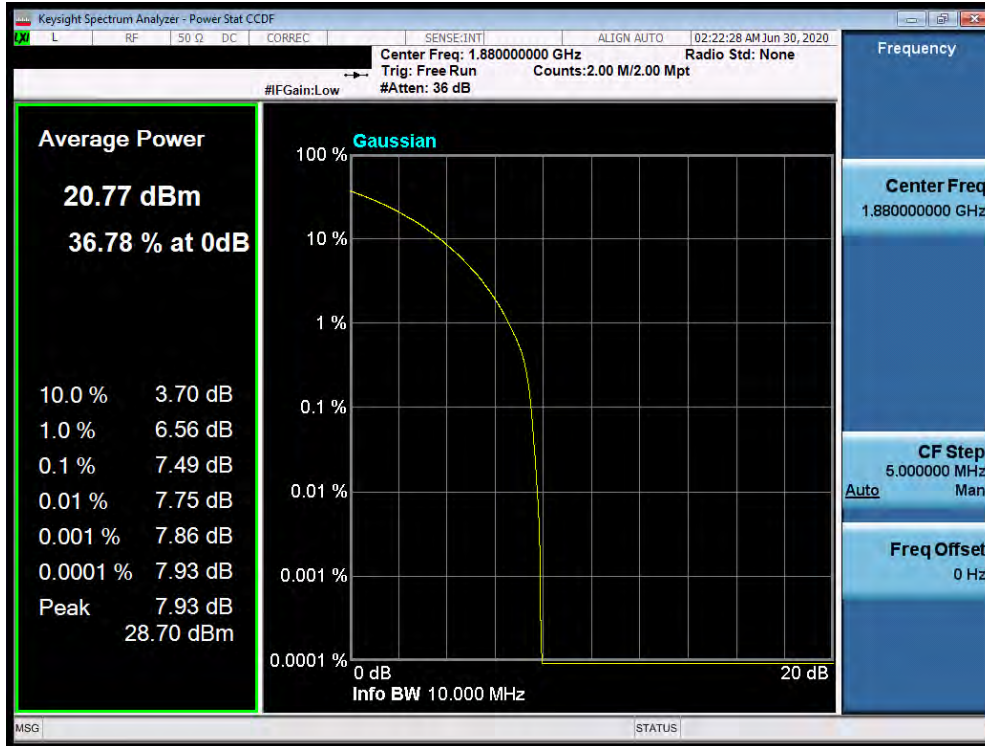


Plot 7-621. PAR Plot (Band n25/2 - 5.0MHz 256-QAM - Full RB Configuration)

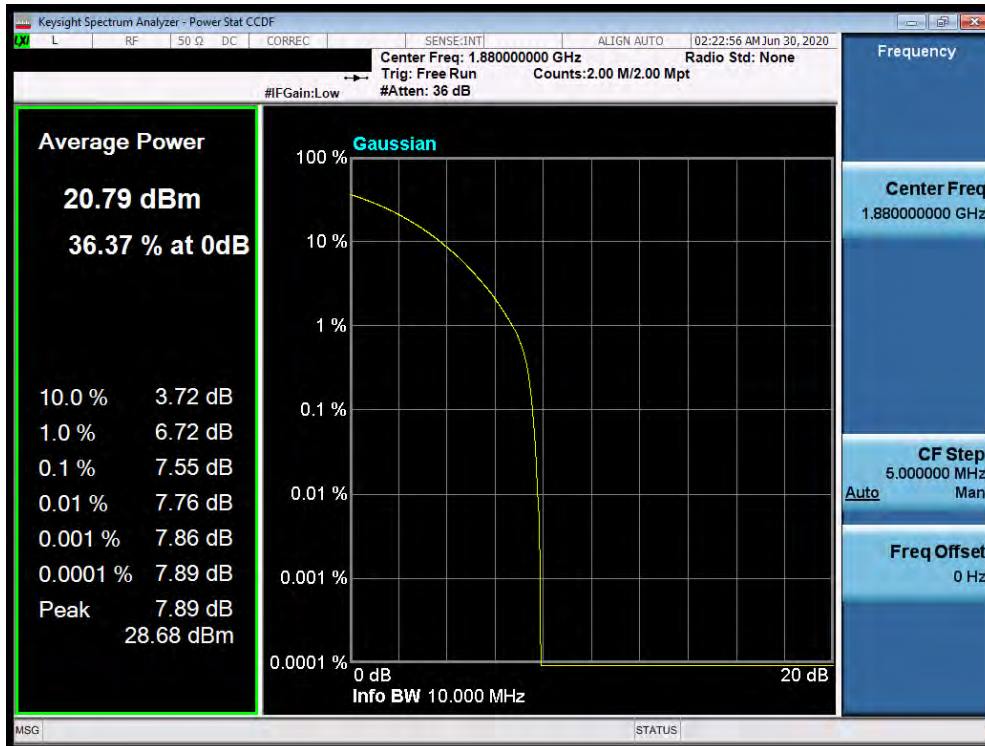


Plot 7-622. PAR Plot (Band n25/2 - 10.0MHz DFT-s-OFDM BPSK - Full RB Configuration)

FCC ID: A3LSMF707U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2005040080-03.A3L	Test Dates: 05/04 - 07/11/2020	EUT Type: Portable Handset		Page 340 of 467

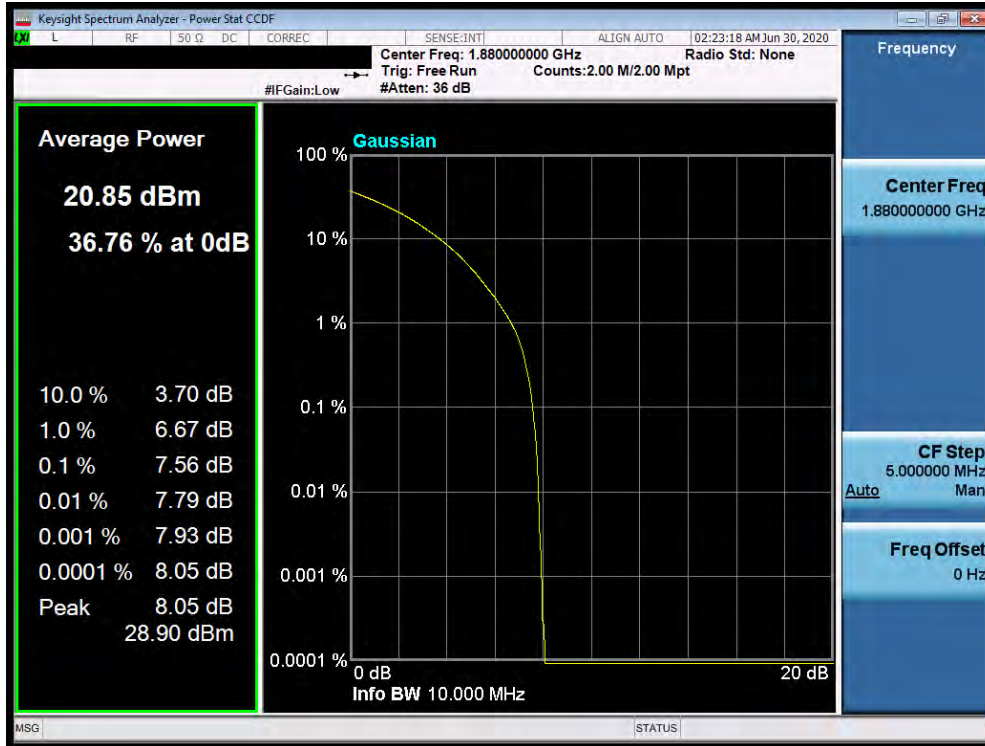


Plot 7-623. PAR Plot (Band n25/2 - 10.0MHz QPSK - Full RB Configuration)

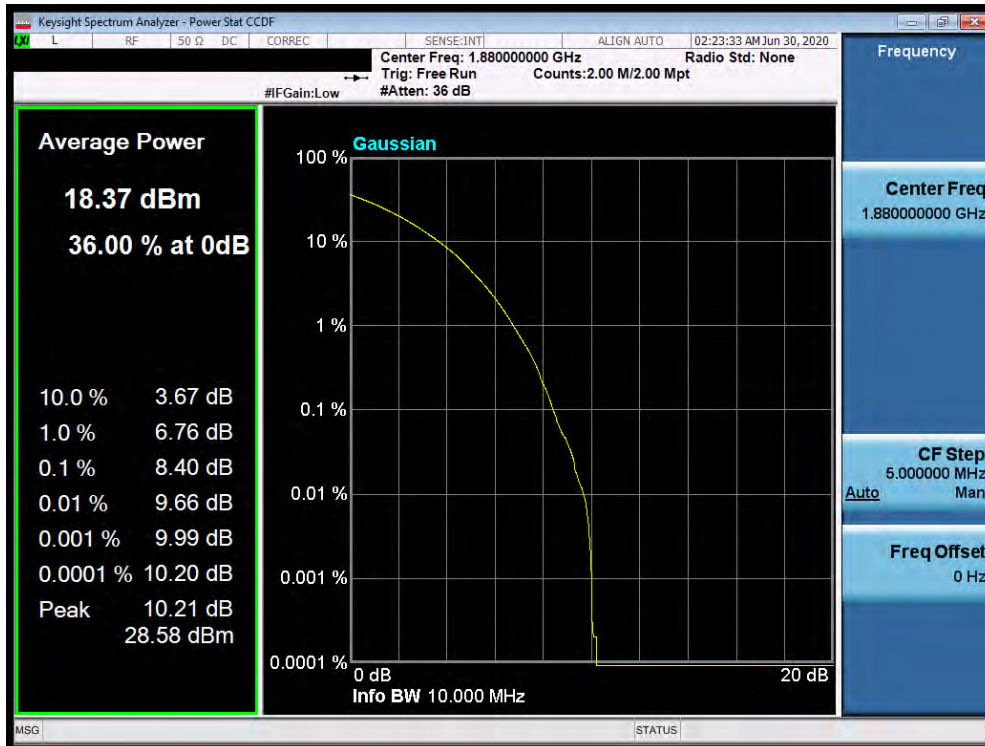


Plot 7-624. PAR Plot (Band n25/2 - 10.0MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMF707U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2005040080-03.A3L	Test Dates: 05/04 - 07/11/2020	EUT Type: Portable Handset		Page 341 of 467

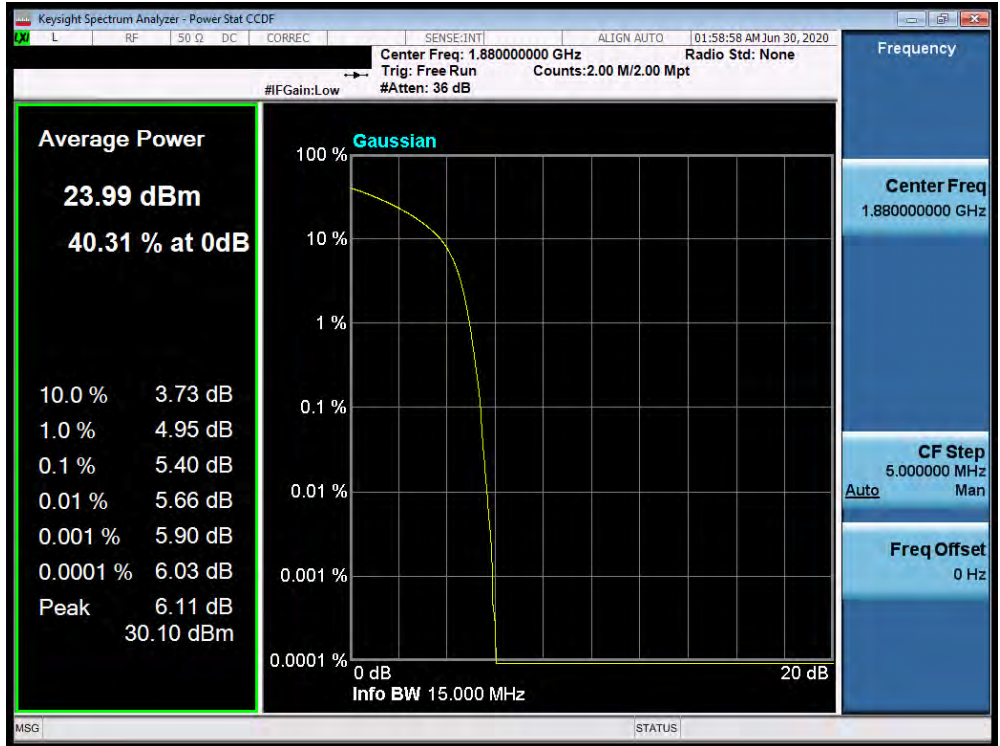


Plot 7-625. PAR Plot (Band n25/2 - 10.0MHz 64-QAM - Full RB Configuration)

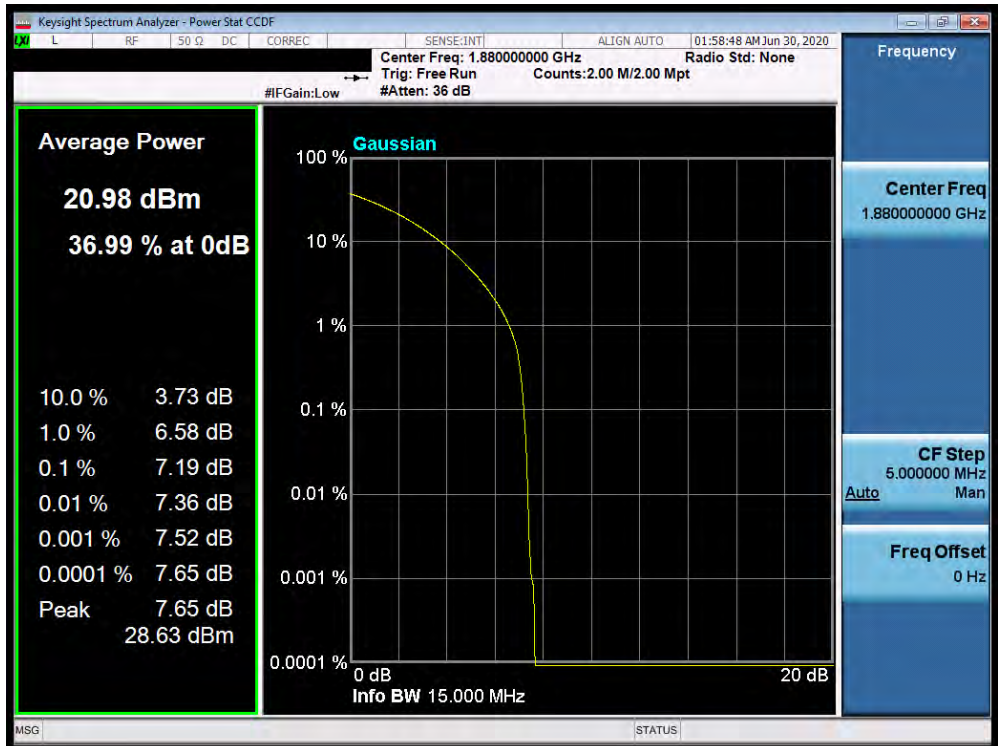


Plot 7-626. PAR Plot (Band n25/2 - 10.0MHz 256-QAM - Full RB Configuration)

FCC ID: A3LSMF707U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2005040080-03.A3L	Test Dates: 05/04 - 07/11/2020	EUT Type: Portable Handset		Page 342 of 467

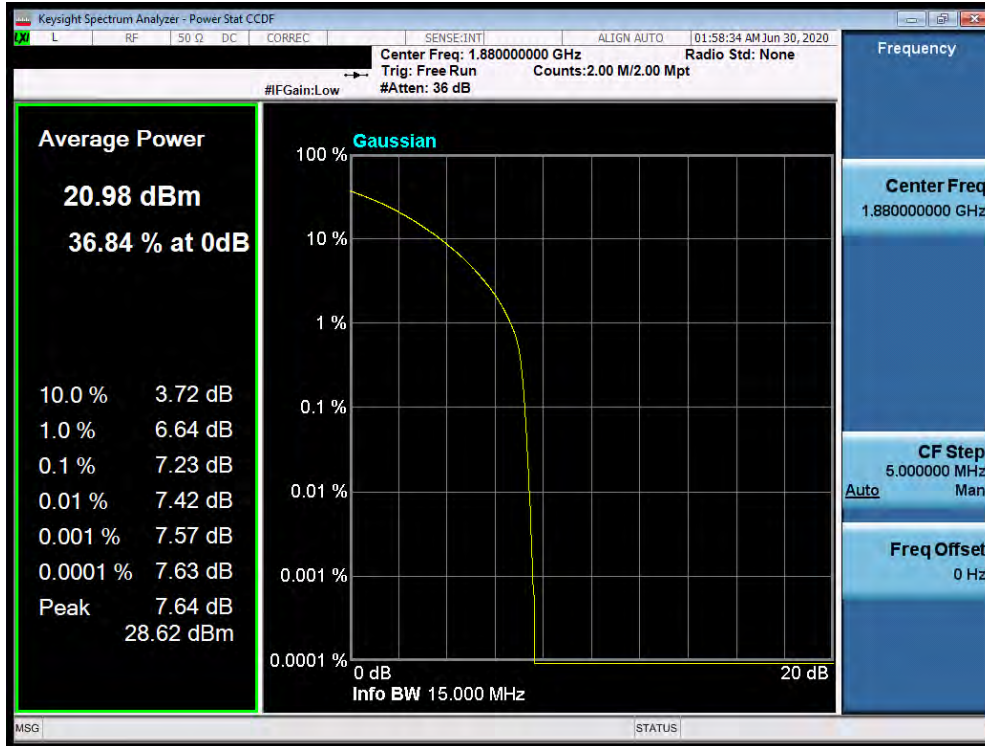


Plot 7-627. PAR Plot (Band n25/2 - 15.0MHz DFT-s-OFDM BPSK - Full RB Configuration)

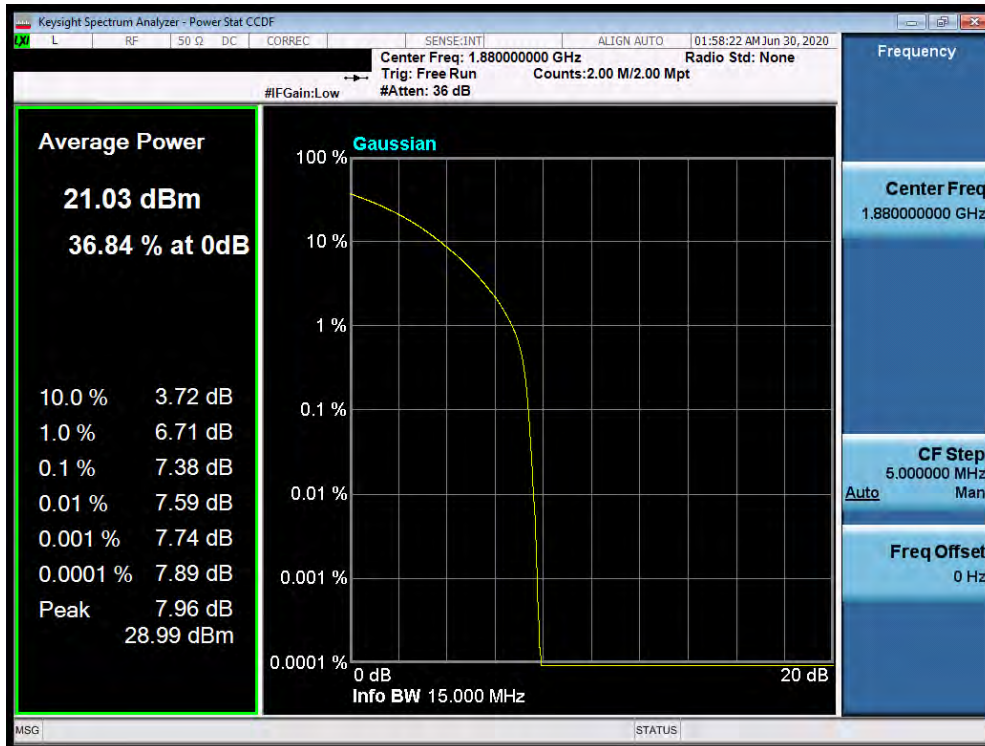


Plot 7-628. PAR Plot (Band n25/2 - 15.0MHz QPSK - Full RB Configuration)

FCC ID: A3LSMF707U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2005040080-03.A3L	Test Dates: 05/04 - 07/11/2020	EUT Type: Portable Handset		Page 343 of 467

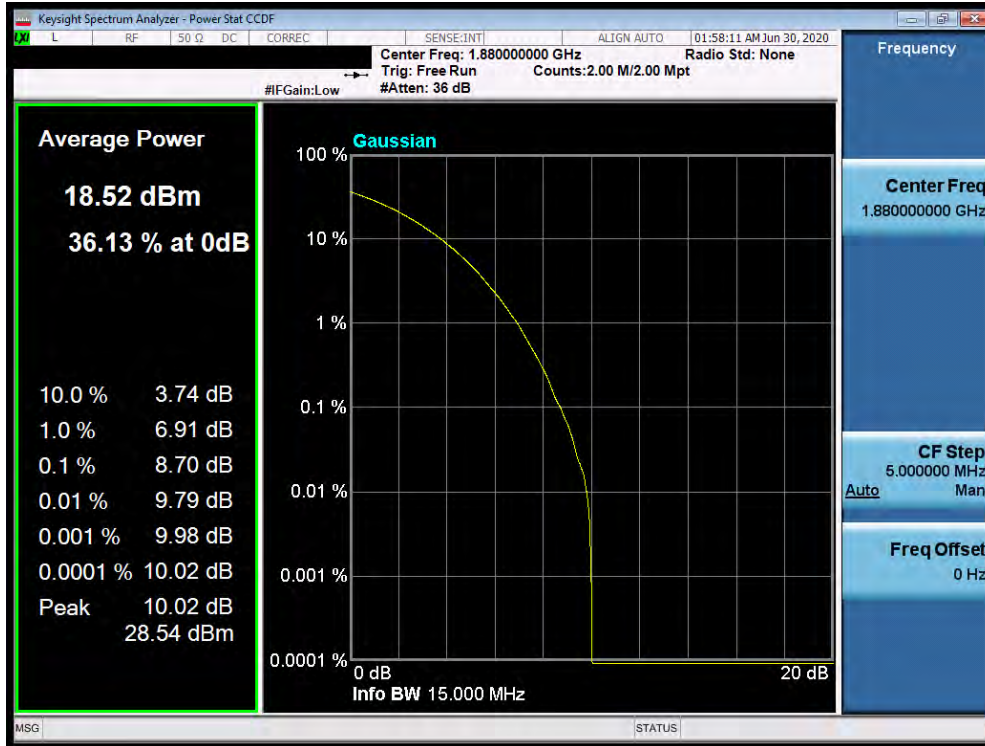


Plot 7-629. PAR Plot (Band n25/2 - 15.0MHz 16-QAM - Full RB Configuration)

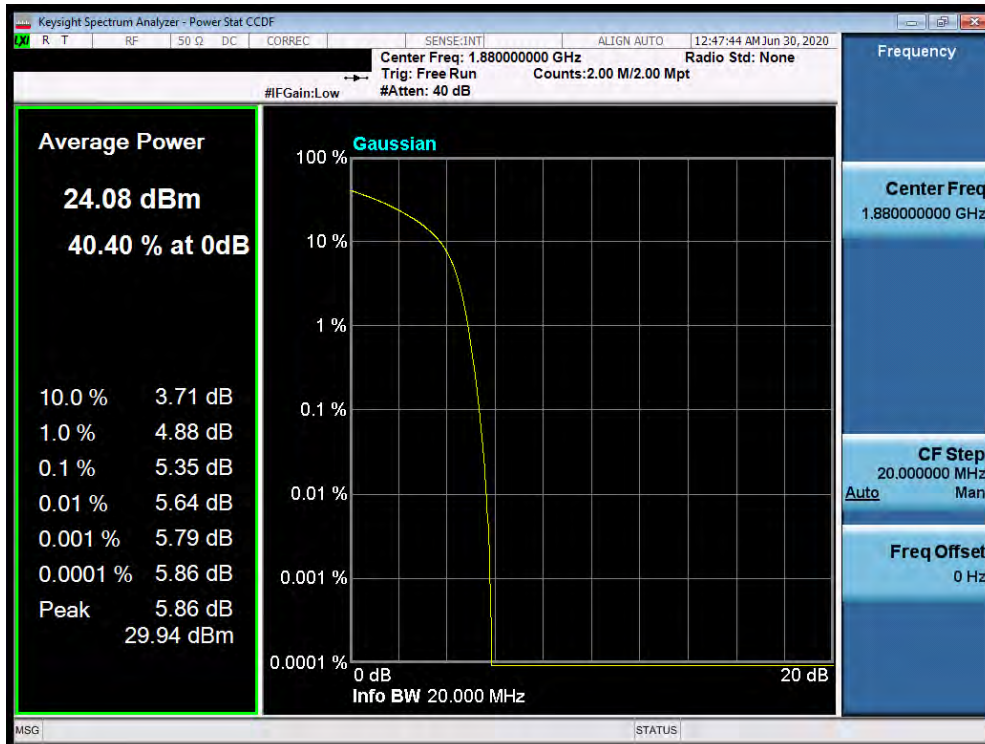


Plot 7-630. PAR Plot (Band n25/2 - 15.0MHz 64-QAM - Full RB Configuration)

FCC ID: A3LSMF707U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2005040080-03.A3L	Test Dates: 05/04 - 07/11/2020	EUT Type: Portable Handset		Page 344 of 467

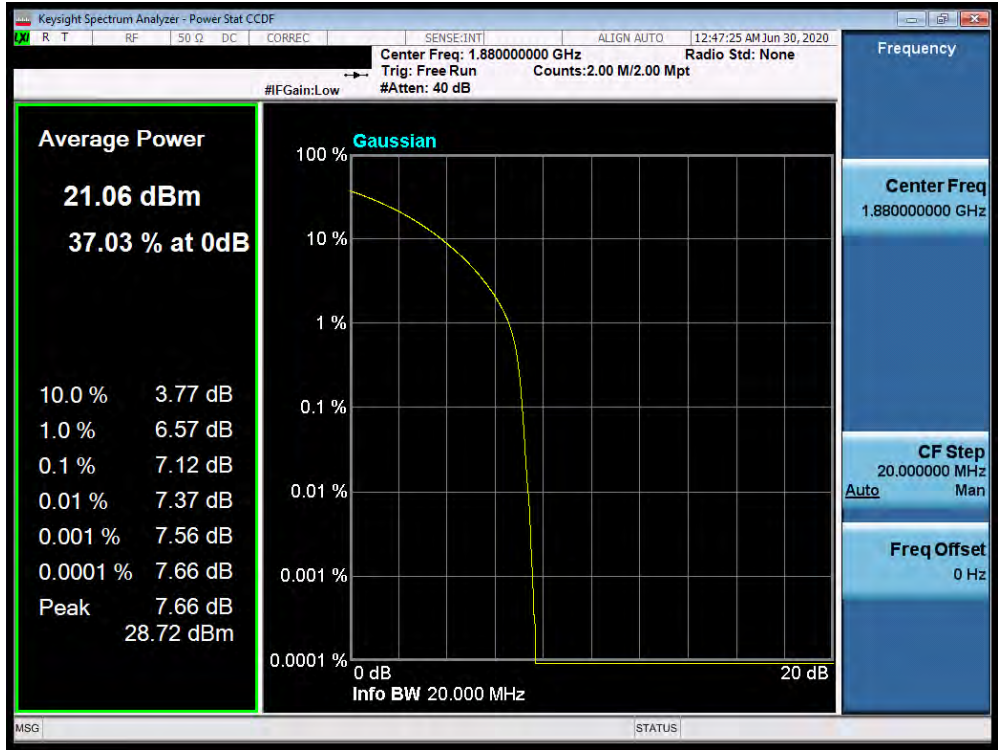


Plot 7-631. PAR Plot (Band n25/2 - 15.0MHz 256-QAM - Full RB Configuration)

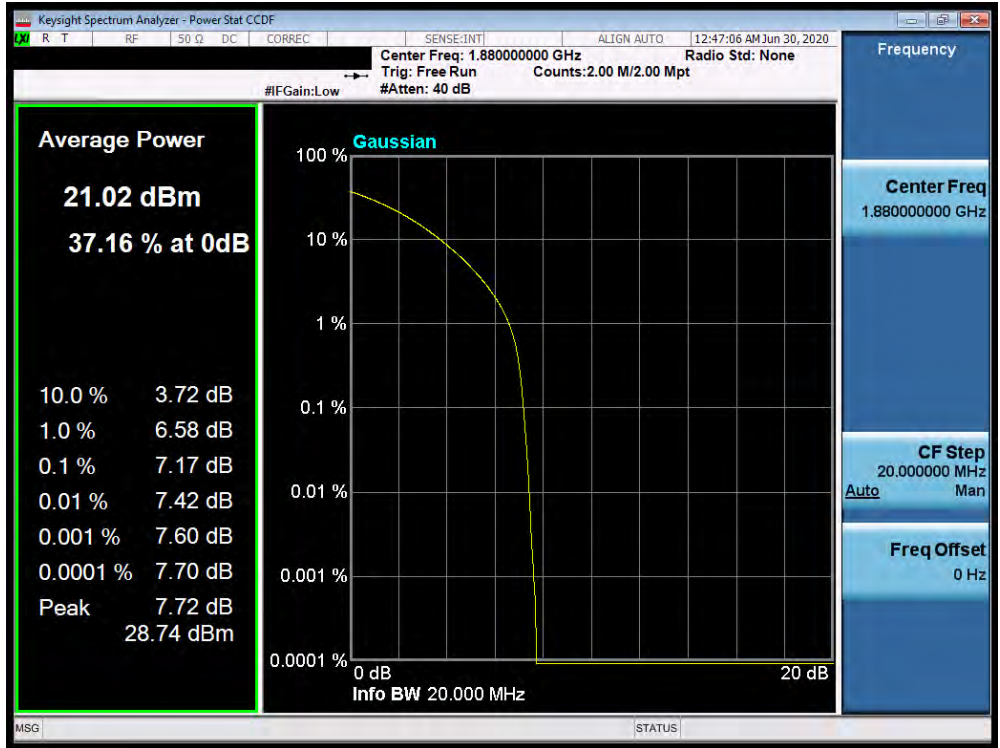


Plot 7-632. PAR Plot (Band n25/2 - 20.0MHz DFT-s-OFDM BPSK - Full RB Configuration)

FCC ID: A3LSMF707U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2005040080-03.A3L	Test Dates: 05/04 - 07/11/2020	EUT Type: Portable Handset		Page 345 of 467

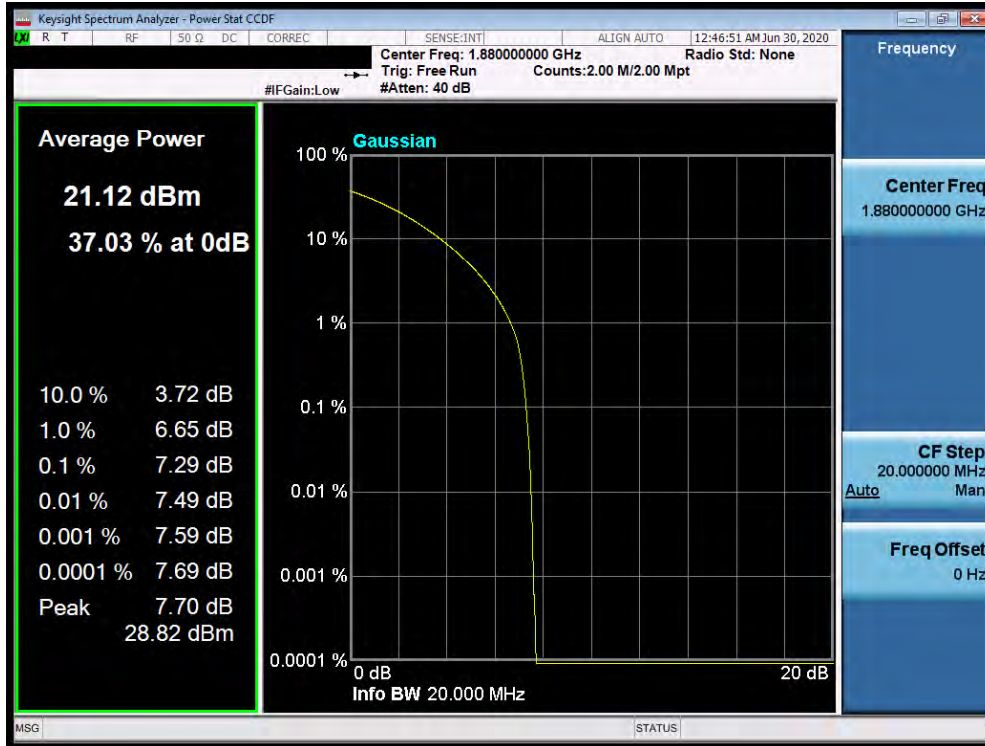


Plot 7-633. PAR Plot (Band n25/2 - 20.0MHz QPSK - Full RB Configuration)

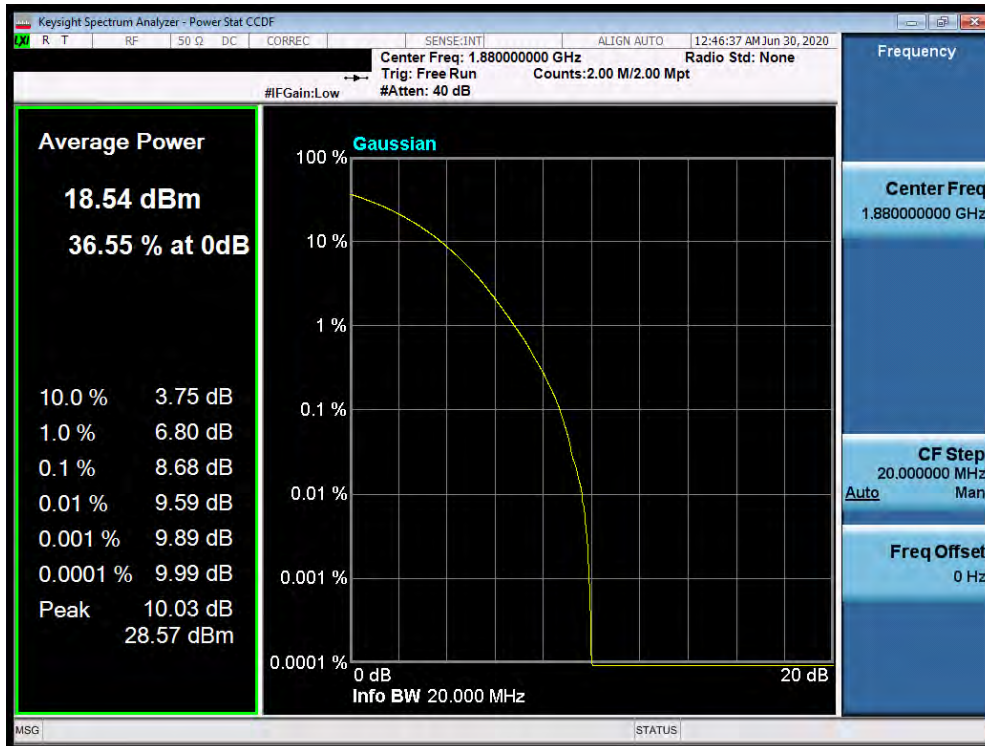


Plot 7-634. PAR Plot (Band n25/2 - 20.0MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMF707U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2005040080-03.A3L	Test Dates: 05/04 - 07/11/2020	EUT Type: Portable Handset		Page 346 of 467



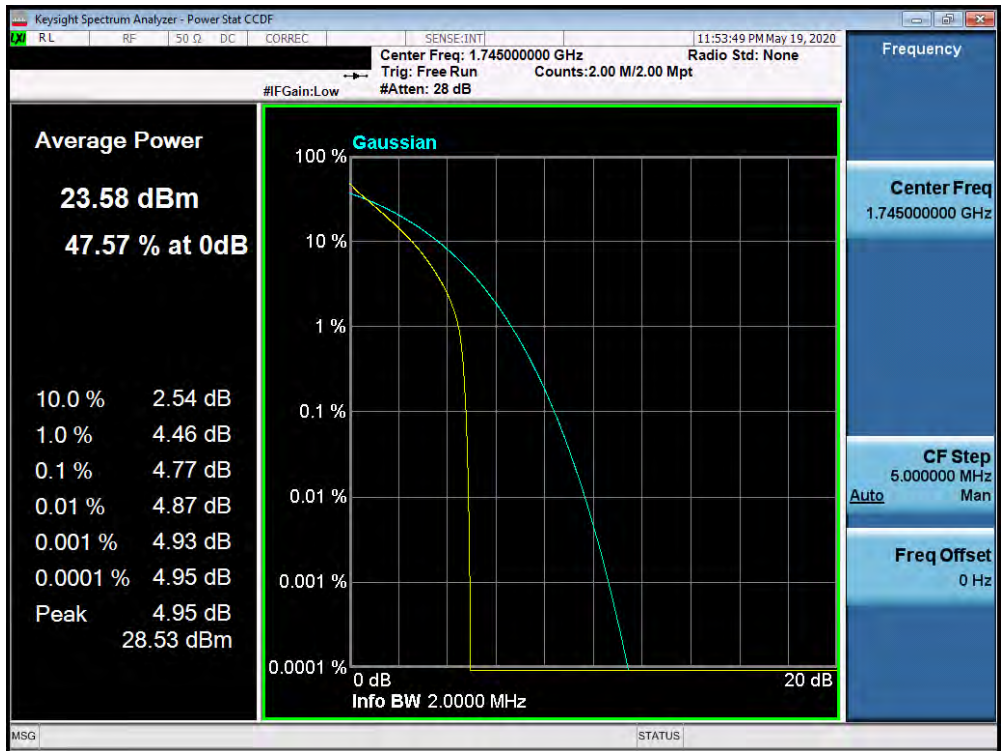
Plot 7-635. PAR Plot (Band n25/2 - 20.0MHz 64-QAM - Full RB Configuration)



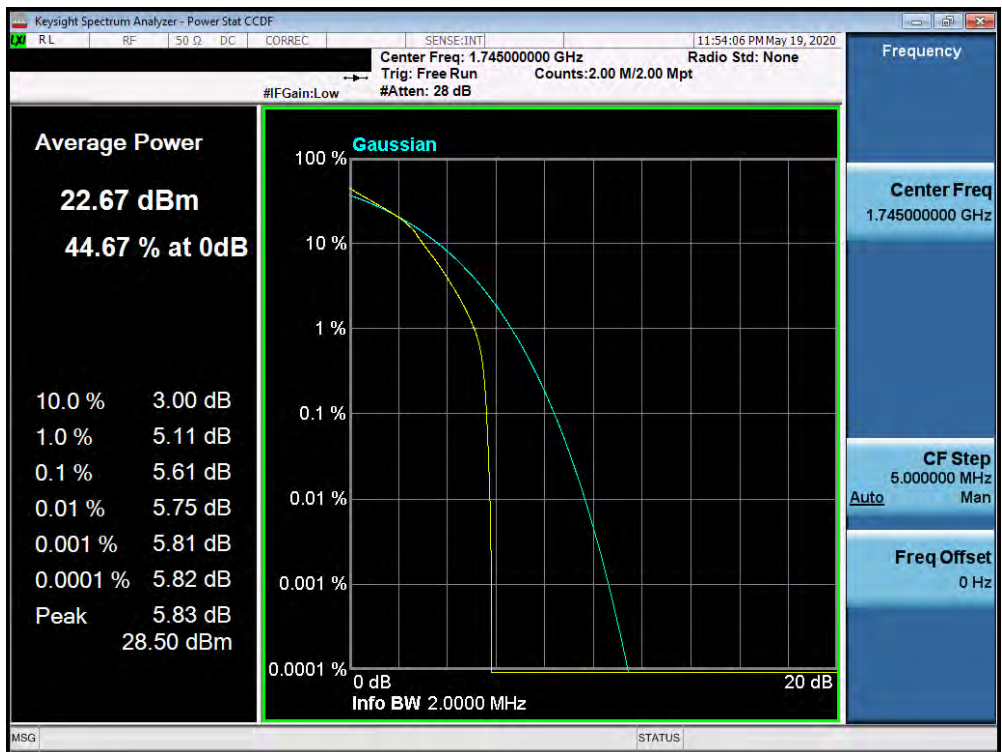
Plot 7-636. PAR Plot (Band n25/2 - 20.0MHz 256-QAM - Full RB Configuration)

FCC ID: A3LSMF707U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2005040080-03.A3L	Test Dates: 05/04 - 07/11/2020	EUT Type: Portable Handset		Page 347 of 467

Band 66/4

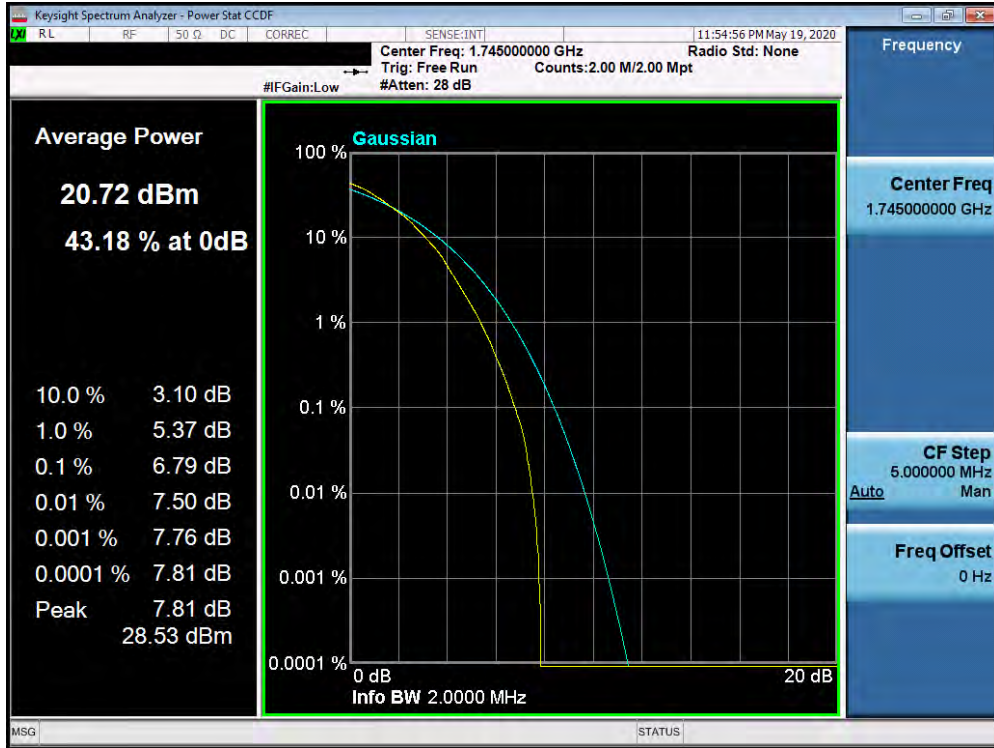


Plot 7-637. PAR Plot (Band 66/4 - 1.4MHz QPSK - Full RB Configuration)

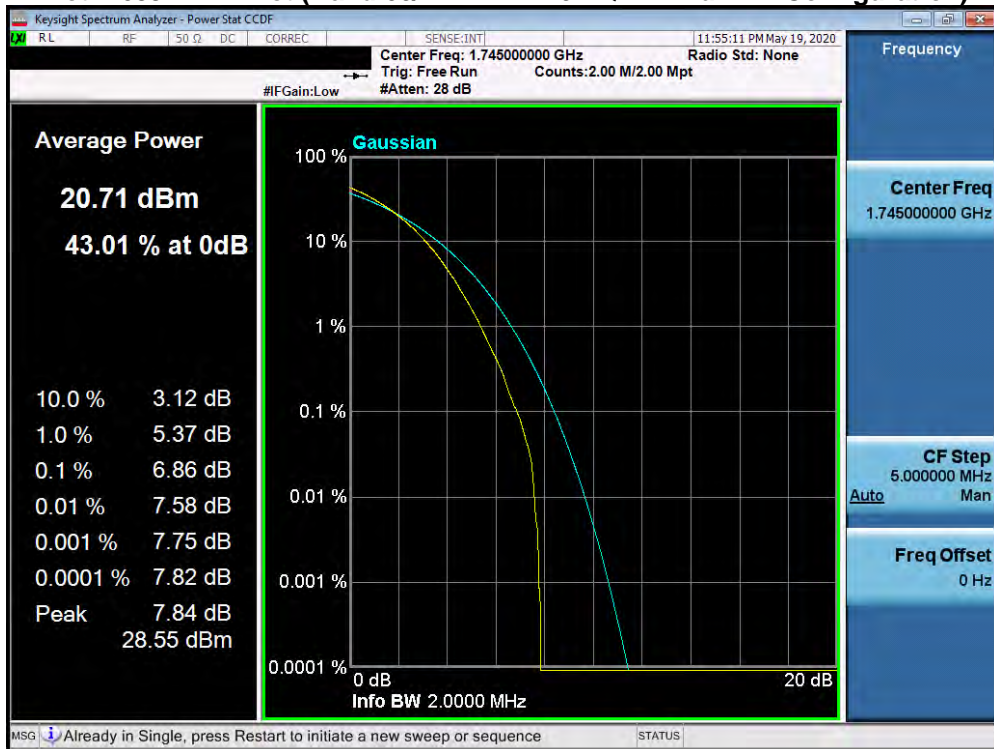


Plot 7-638. PAR Plot (Band 66/4 - 1.4MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMF707U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2005040080-03.A3L	Test Dates: 05/04 – 07/11/2020	EUT Type: Portable Handset		Page 348 of 467

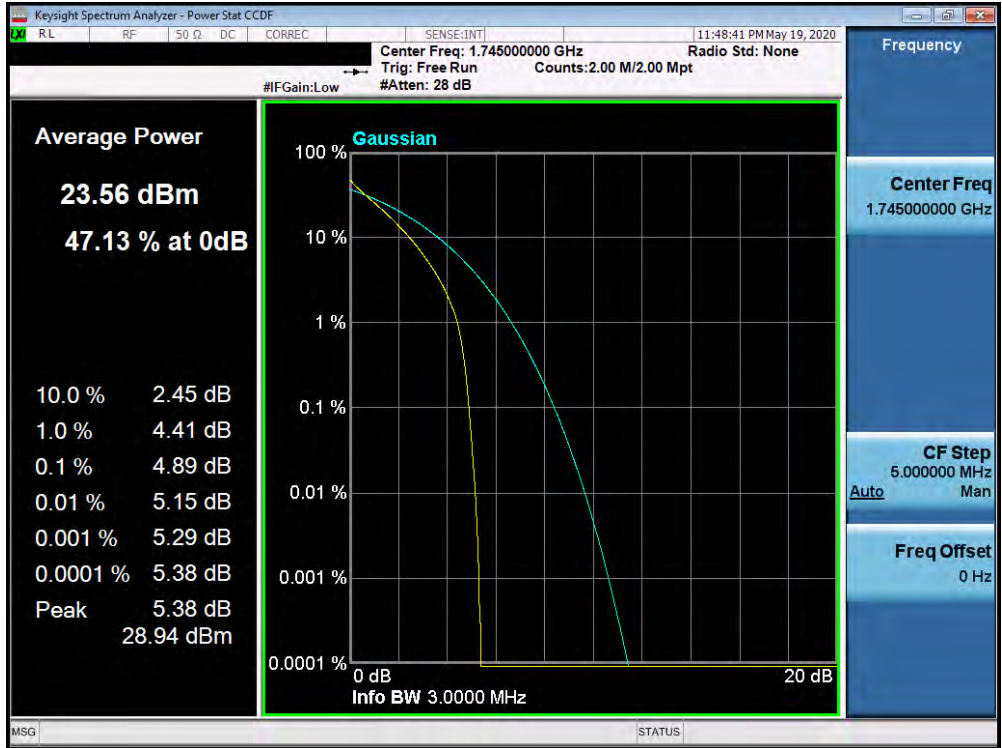


Plot 7-639. PAR Plot (Band 66/4 - 1.4MHz 64-QAM - Full RB Configuration)

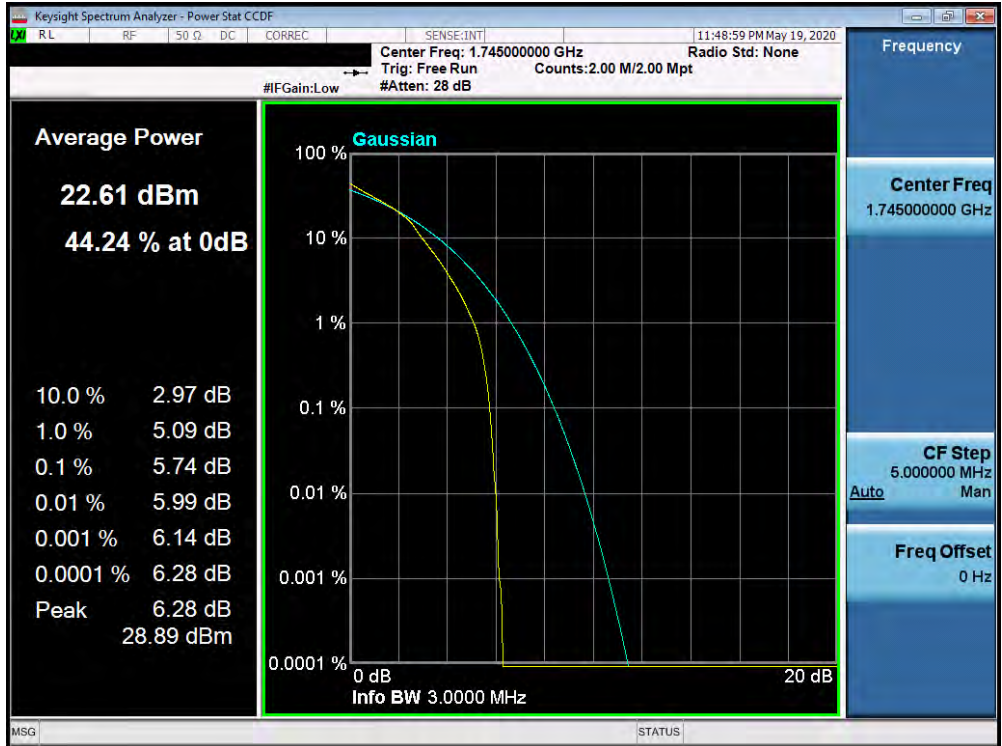


Plot 7-640. PAR Plot (Band 66/4 - 1.4MHz 256-QAM - Full RB Configuration)

FCC ID: A3LSMF707U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2005040080-03.A3L	Test Dates: 05/04 - 07/11/2020	EUT Type: Portable Handset		Page 349 of 467

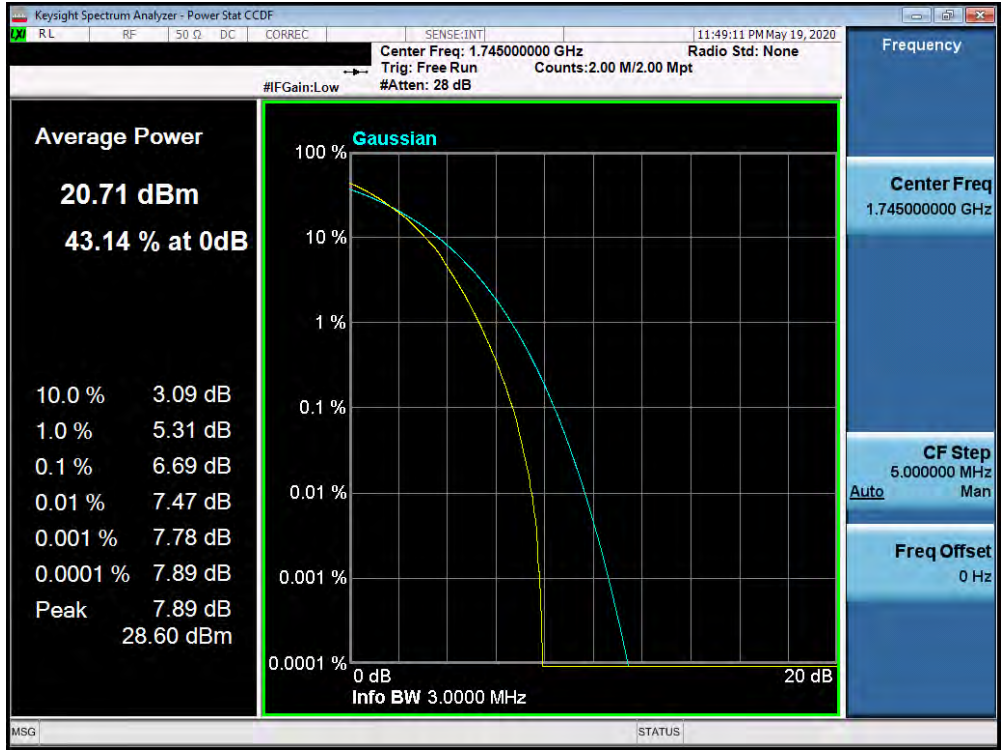


Plot 7-641. PAR Plot (Band 66/4 - 3.0MHz QPSK - Full RB Configuration)

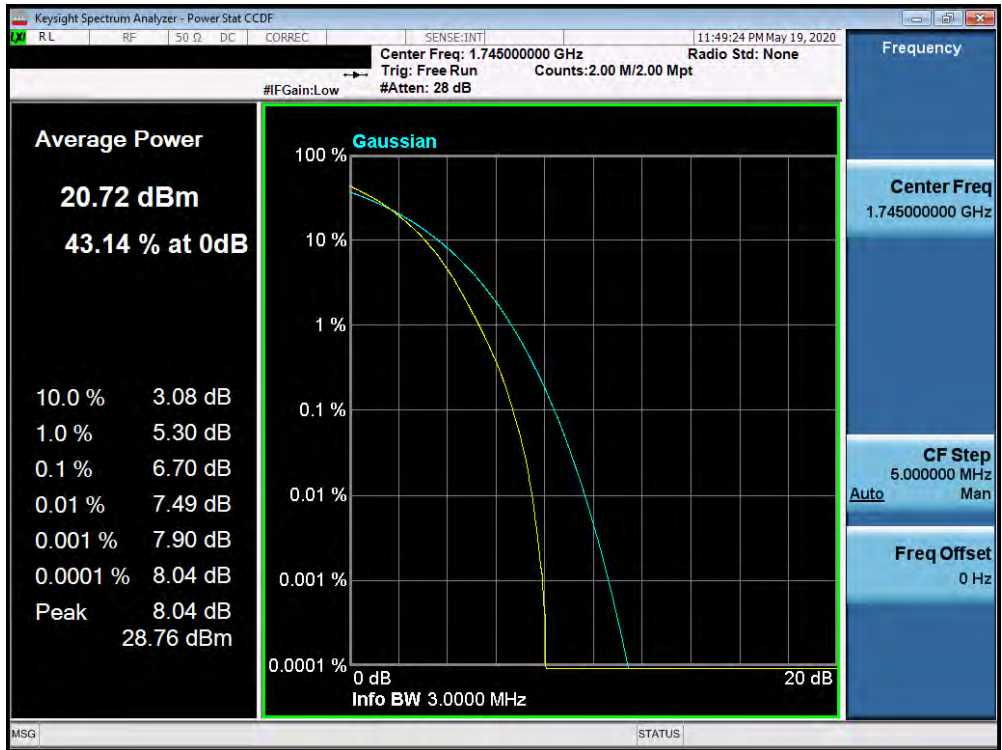


Plot 7-642. PAR Plot (Band 66/4 - 3.0MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMF707U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2005040080-03.A3L	Test Dates: 05/04 - 07/11/2020	EUT Type: Portable Handset		Page 350 of 467

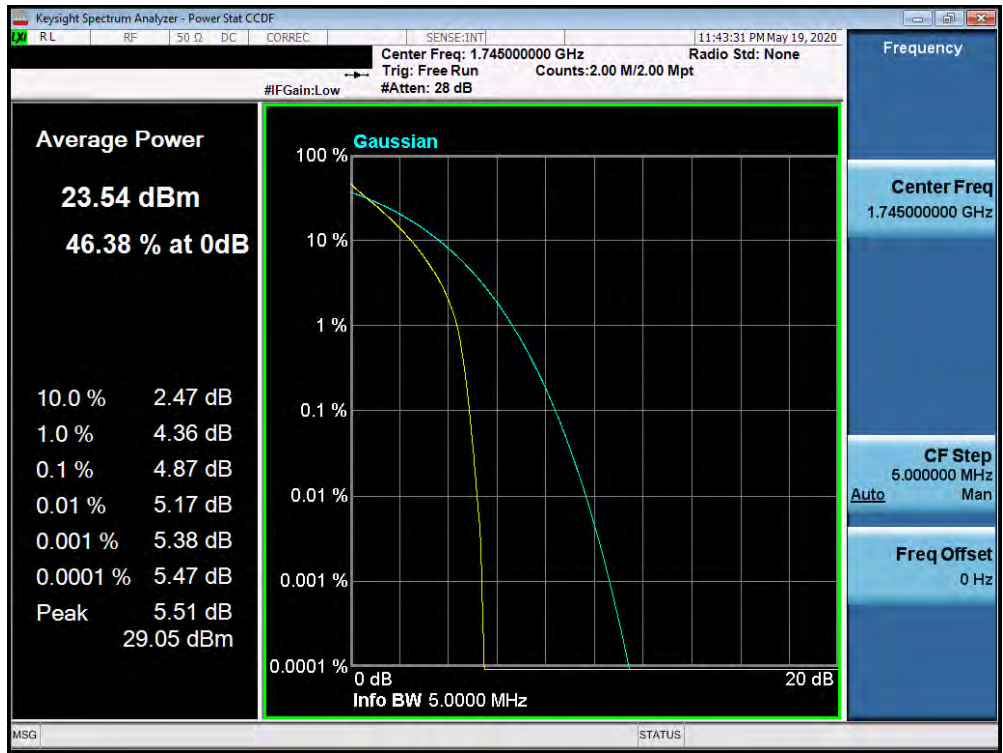


Plot 7-643. PAR Plot (Band 66/4 - 3.0MHz 64-QAM - Full RB Configuration)

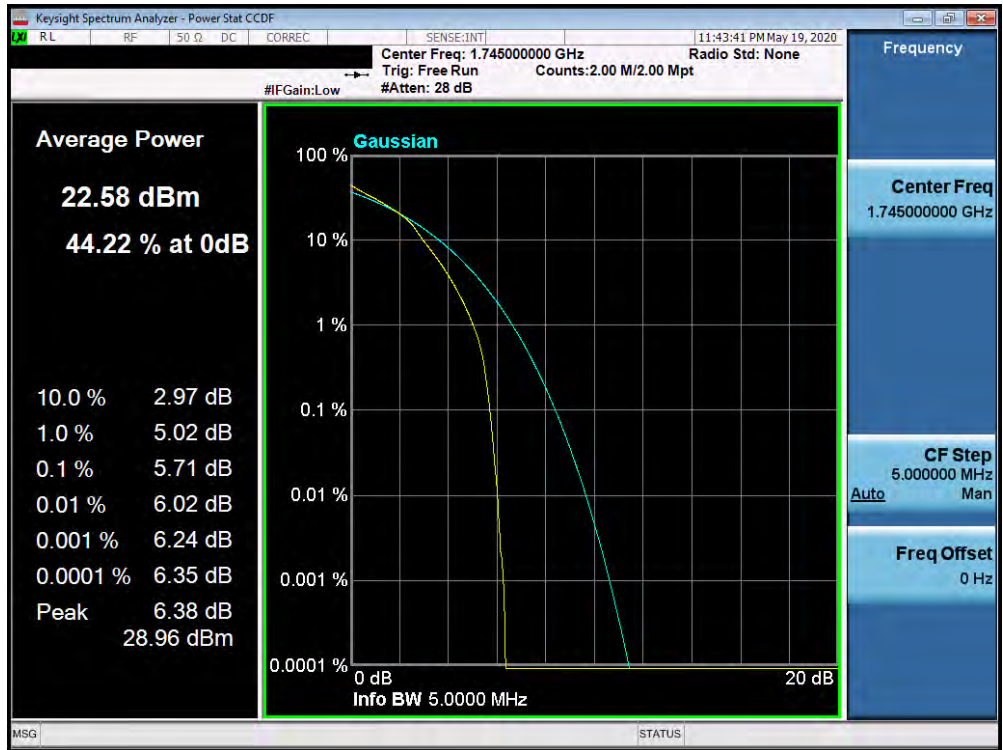


Plot 7-644. PAR Plot (Band 66/4 - 3.0MHz 256-QAM - Full RB Configuration)



FCC ID: A3LSMF707U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2005040080-03.A3L	Test Dates: 05/04 – 07/11/2020	EUT Type: Portable Handset		Page 351 of 467

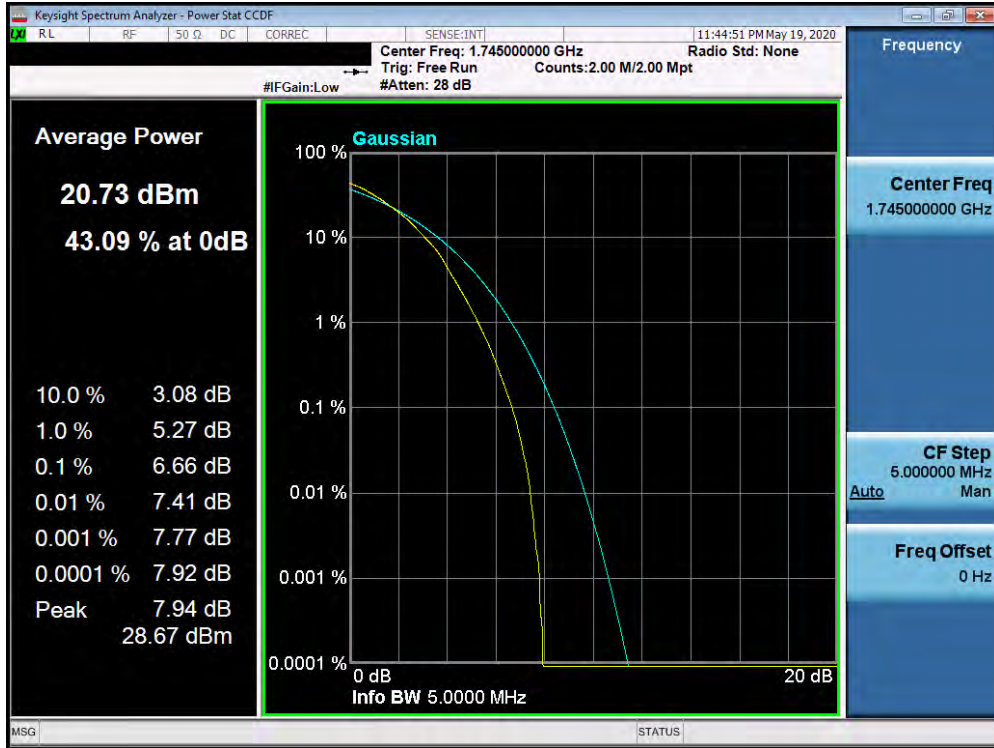


Plot 7-645. PAR Plot (Band 66/4 - 5.0MHz QPSK - Full RB Configuration)

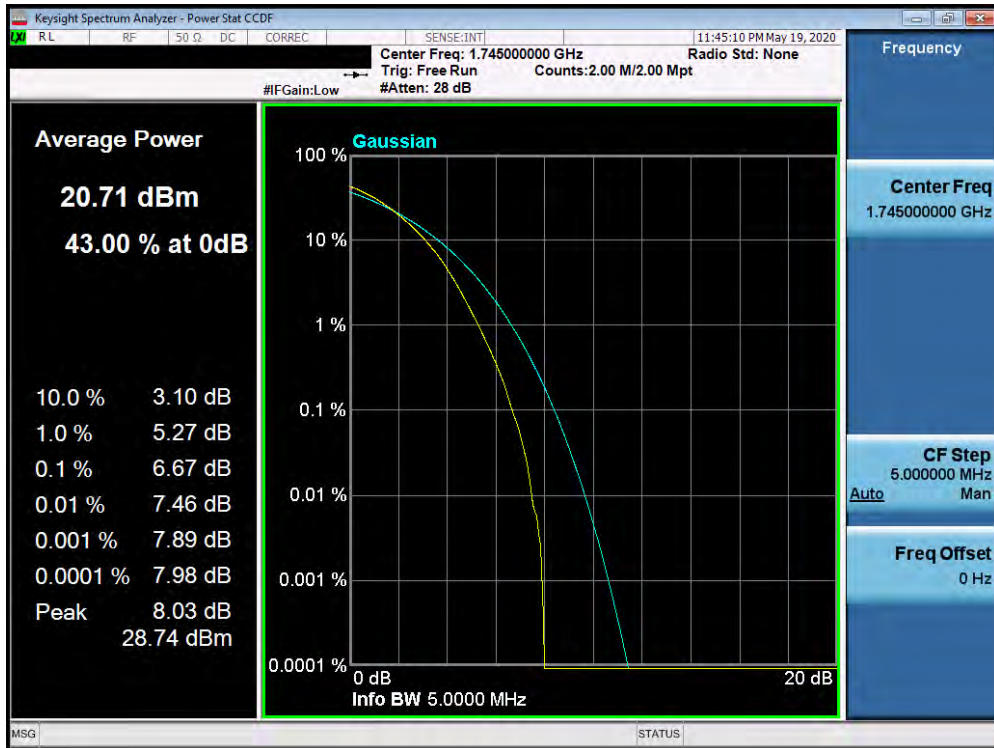


Plot 7-646. PAR Plot (Band 66/4 - 5.0MHz 16-QAM - Full RB Configuration)



FCC ID: A3LSMF707U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2005040080-03.A3L	Test Dates: 05/04 - 07/11/2020	EUT Type: Portable Handset		Page 352 of 467

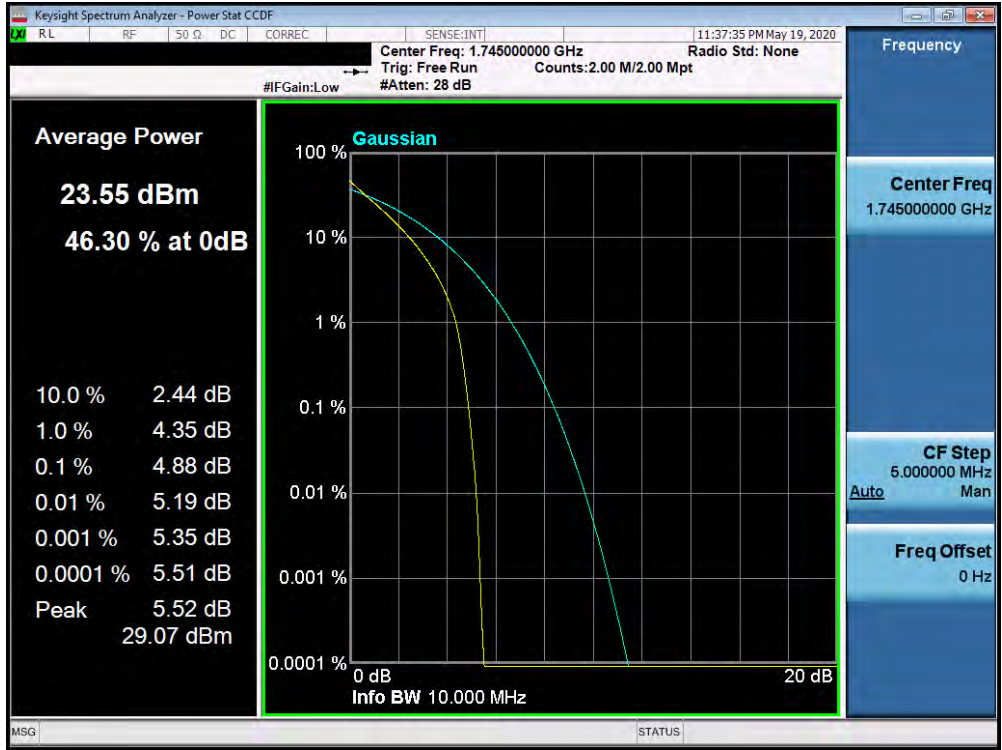


Plot 7-647. PAR Plot (Band 66/4 - 5.0MHz 64-QAM - Full RB Configuration)

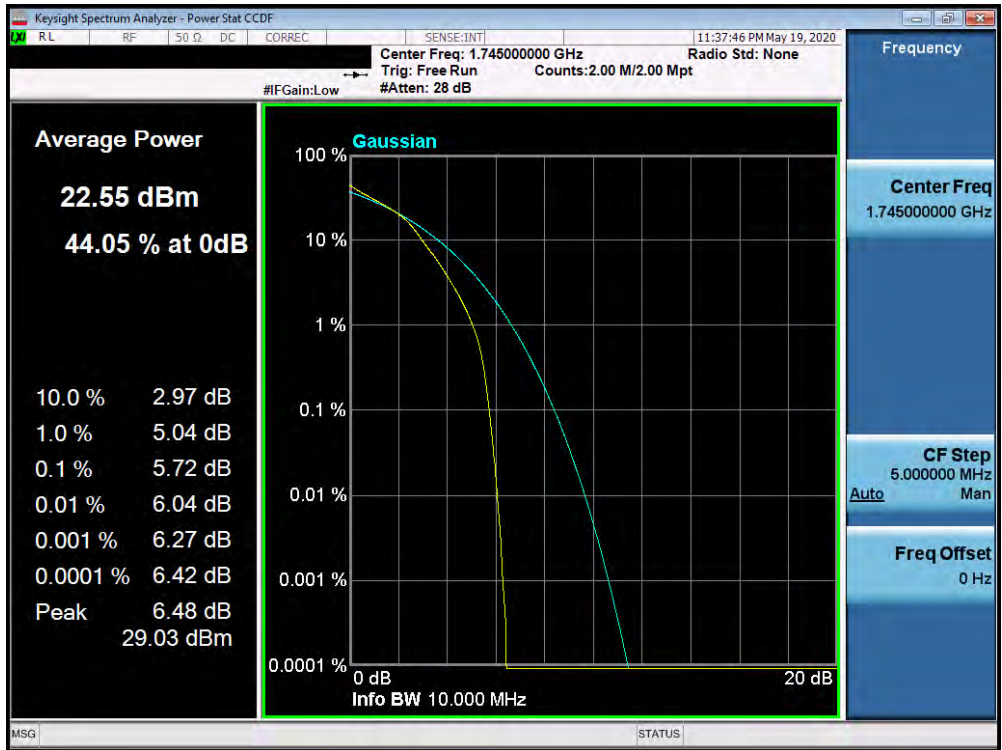


Plot 7-648. PAR Plot (Band 66/4 - 5.0MHz 256-QAM - Full RB Configuration)

FCC ID: A3LSMF707U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2005040080-03.A3L	Test Dates: 05/04 - 07/11/2020	EUT Type: Portable Handset		Page 353 of 467

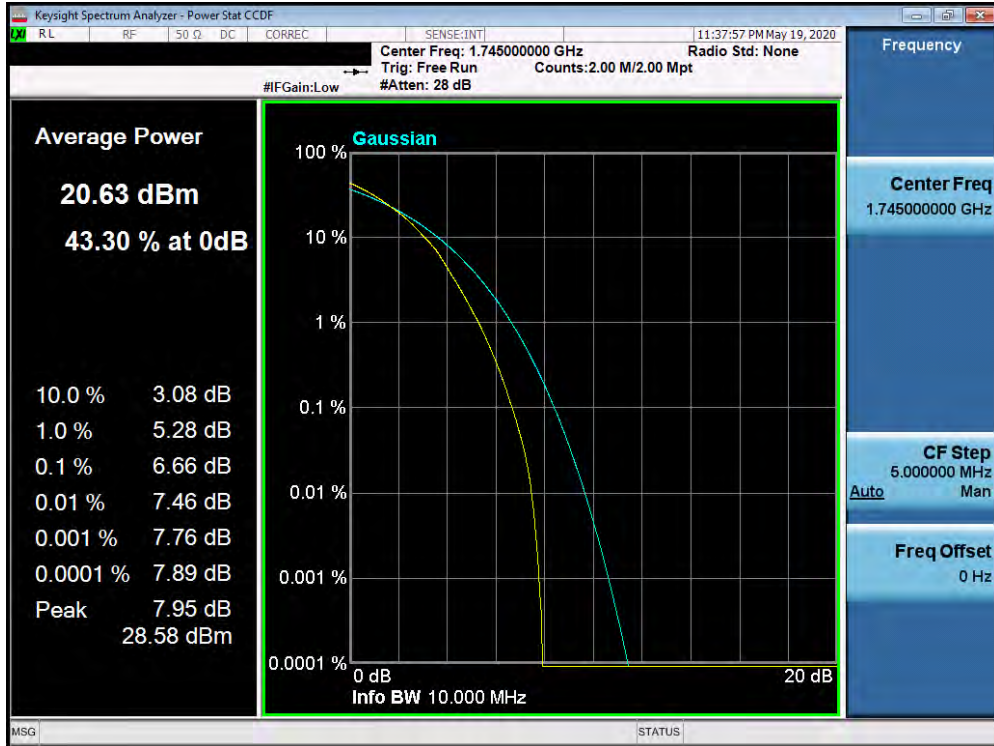


Plot 7-649. PAR Plot (Band 66/4 - 10.0MHz QPSK - Full RB Configuration)

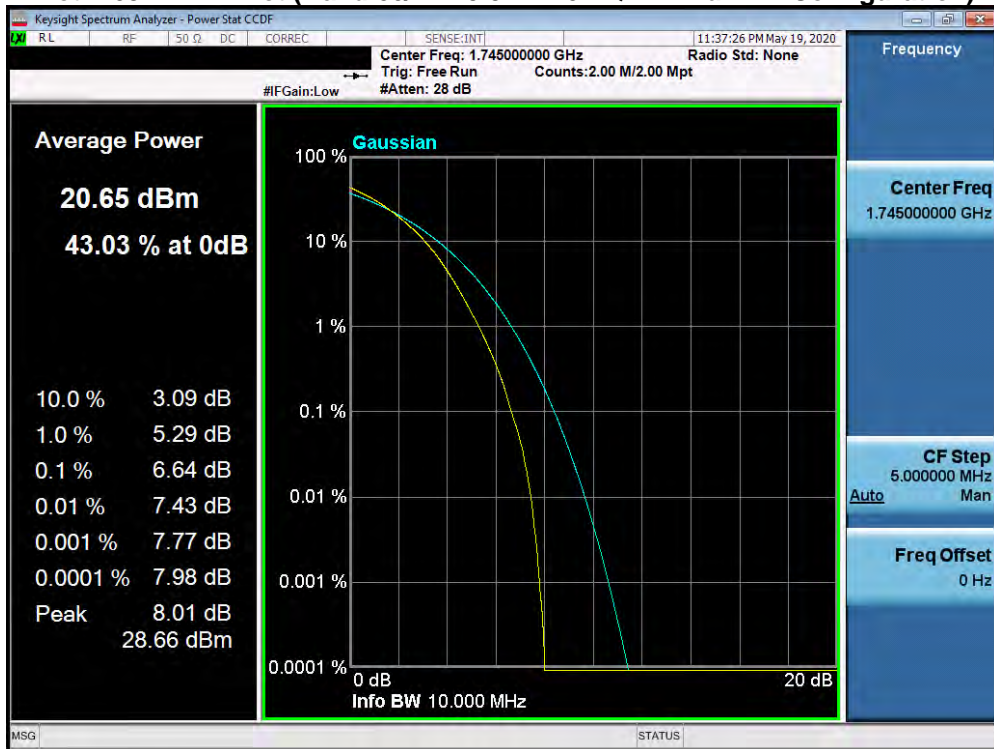


Plot 7-650. PAR Plot (Band 66/4 - 10.0MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMF707U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2005040080-03.A3L	Test Dates: 05/04 – 07/11/2020	EUT Type: Portable Handset		Page 354 of 467

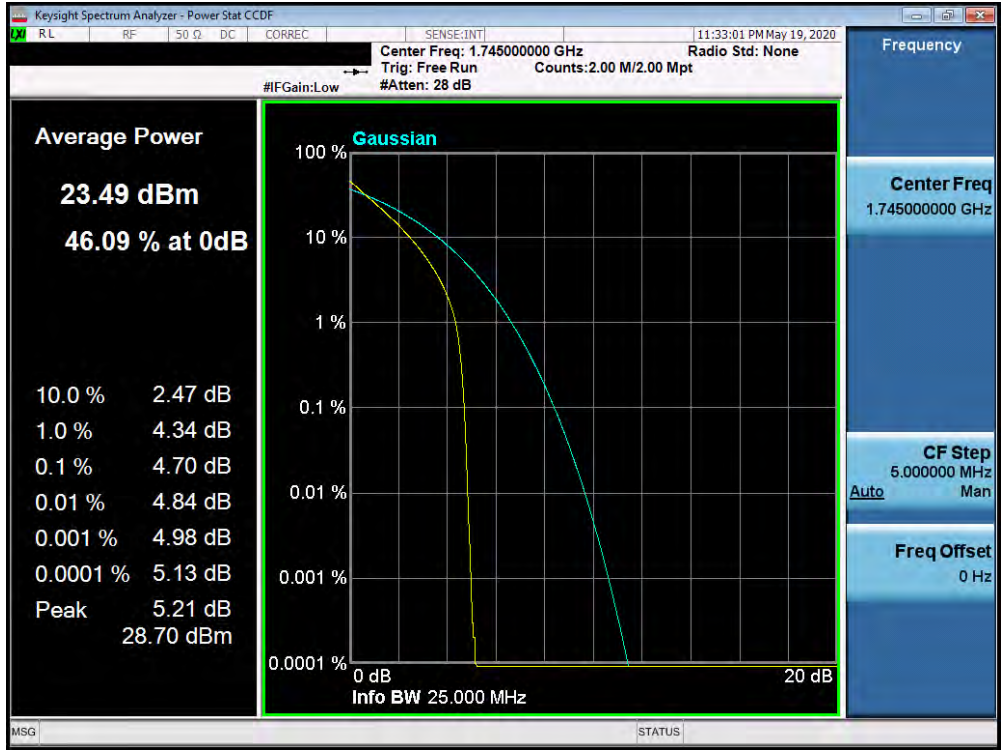


Plot 7-651. PAR Plot (Band 66/4 - 10.0MHz 64-QAM - Full RB Configuration)

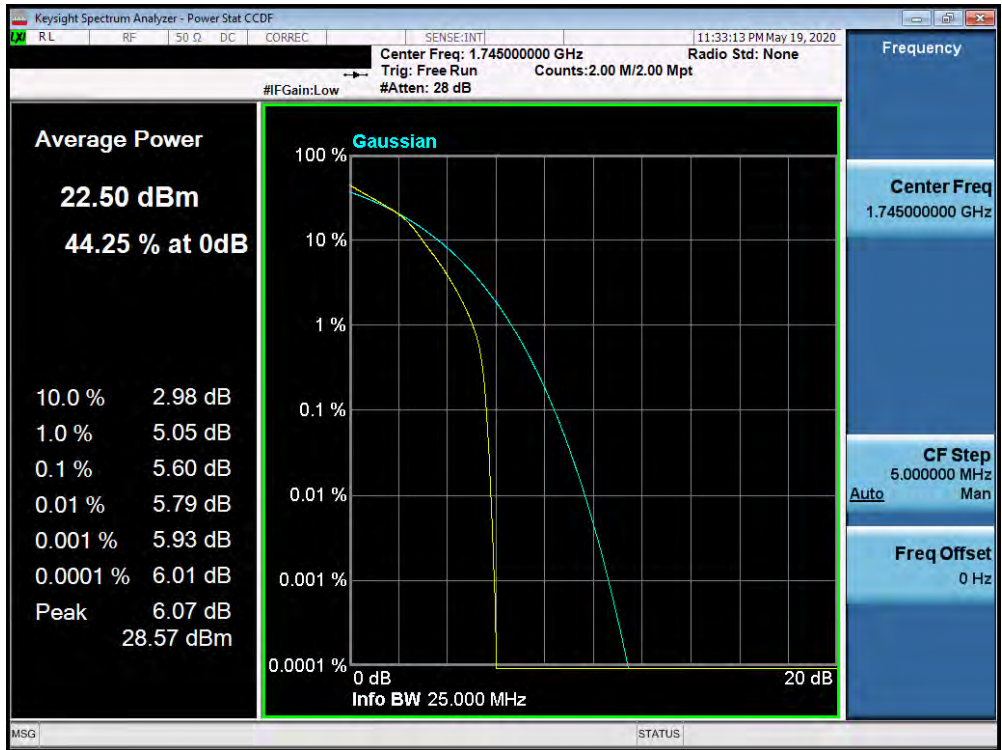


Plot 7-652. PAR Plot (Band 66/4 - 10.0MHz 256-QAM - Full RB Configuration)

FCC ID: A3LSMF707U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2005040080-03.A3L	Test Dates: 05/04 - 07/11/2020	EUT Type: Portable Handset		Page 355 of 467

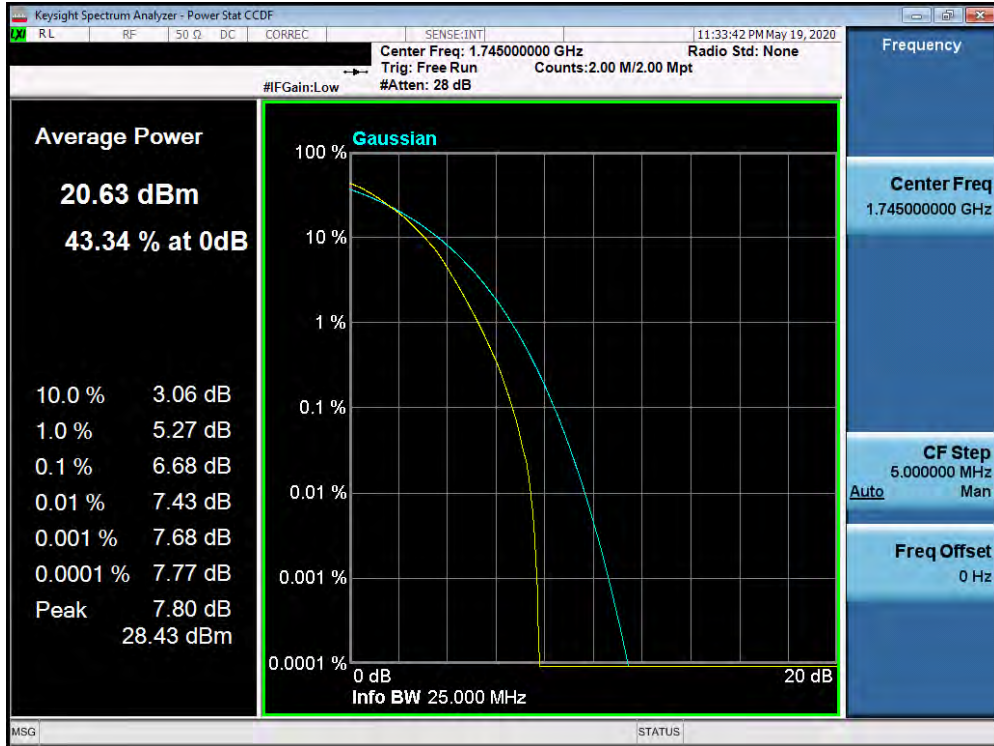


Plot 7-653. PAR Plot (Band 66/4 - 15.0MHz QPSK - Full RB Configuration)

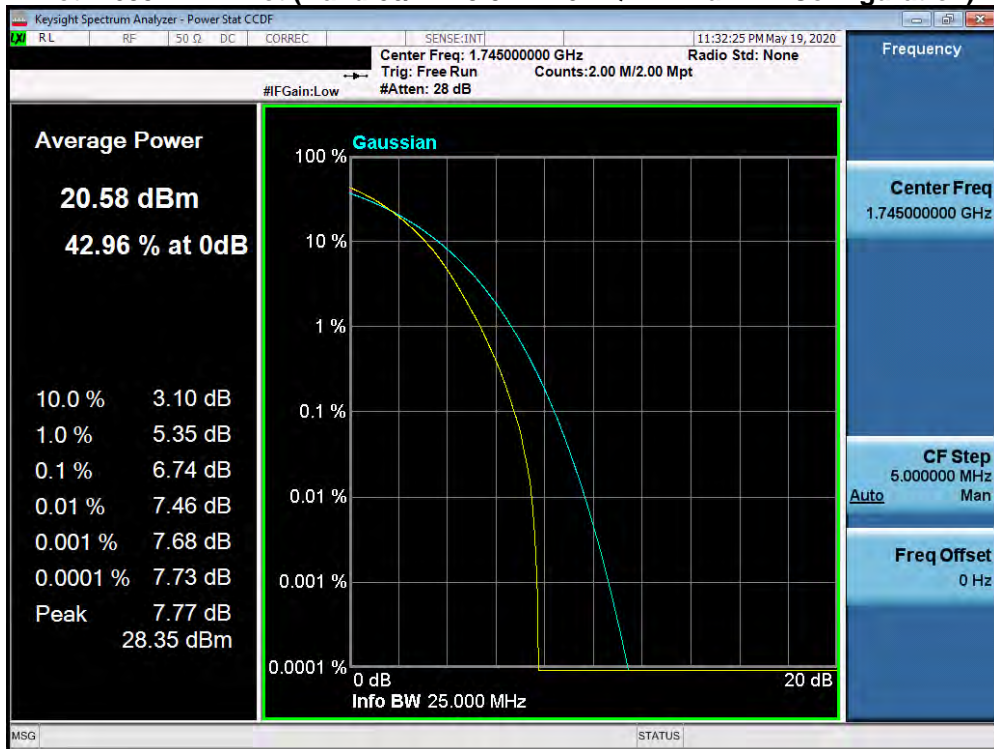


Plot 7-654. PAR Plot (Band 66/4 - 15.0MHz 16-QAM - Full RB Configuration)



FCC ID: A3LSMF707U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2005040080-03.A3L	Test Dates: 05/04 - 07/11/2020	EUT Type: Portable Handset		Page 356 of 467

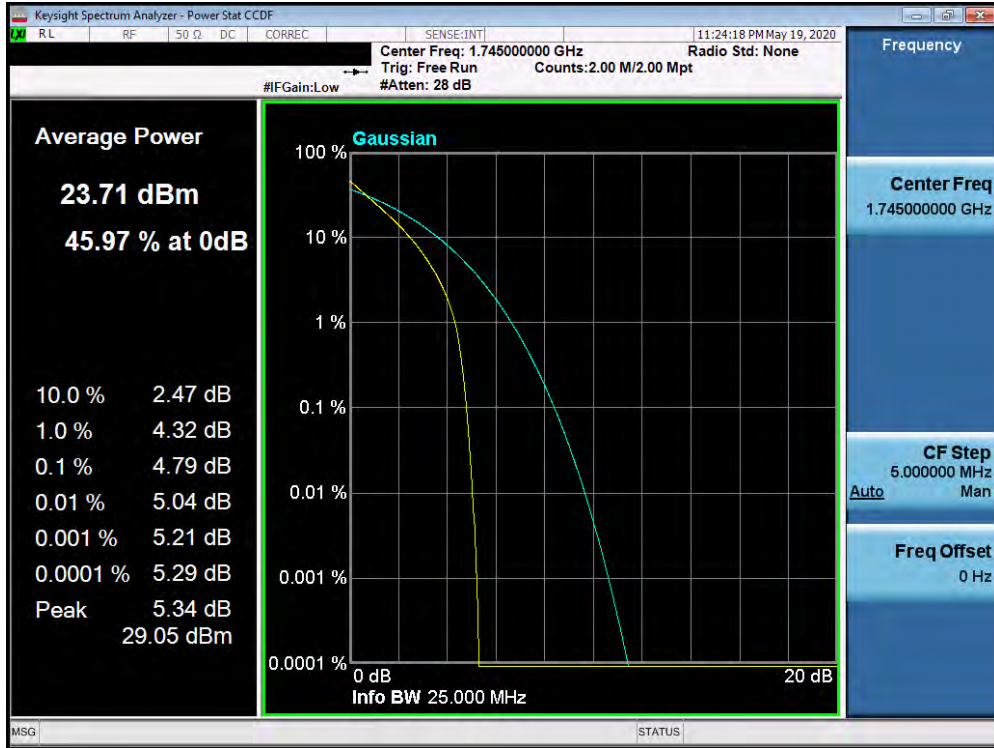


Plot 7-655. PAR Plot (Band 66/4 - 15.0MHz 64-QAM - Full RB Configuration)

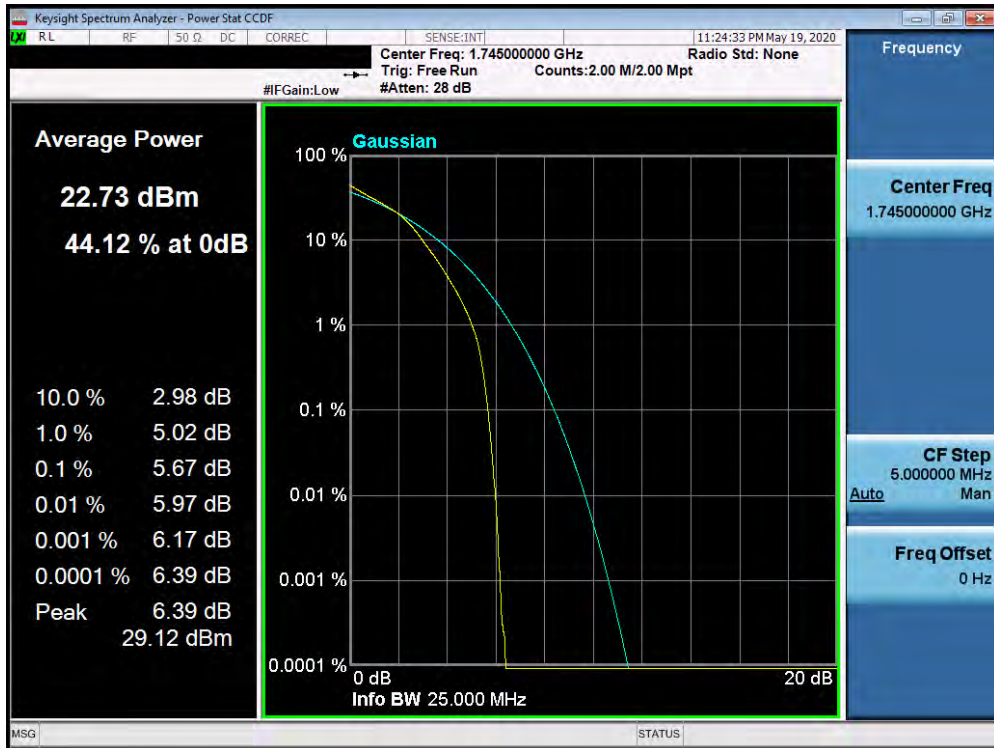


Plot 7-656. PAR Plot (Band 66/4 - 15.0MHz 256-QAM - Full RB Configuration)


FCC ID: A3LSMF707U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2005040080-03.A3L	Test Dates: 05/04 - 07/11/2020	EUT Type: Portable Handset		Page 357 of 467

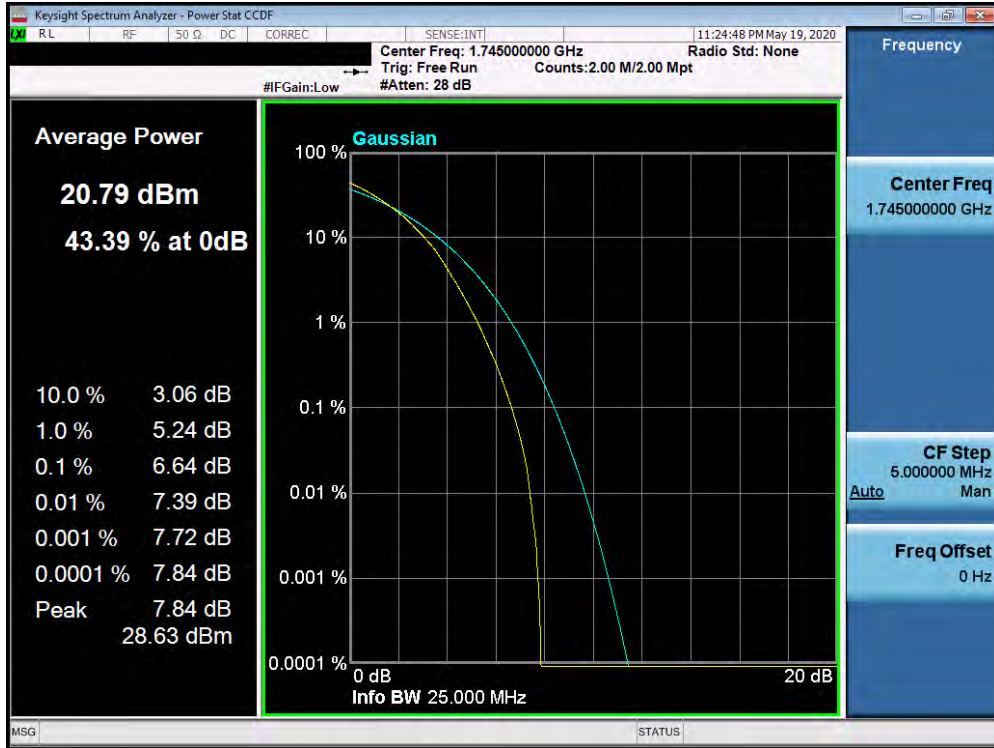


Plot 7-657. PAR Plot (Band 66/4 - 20.0MHz QPSK - Full RB Configuration)

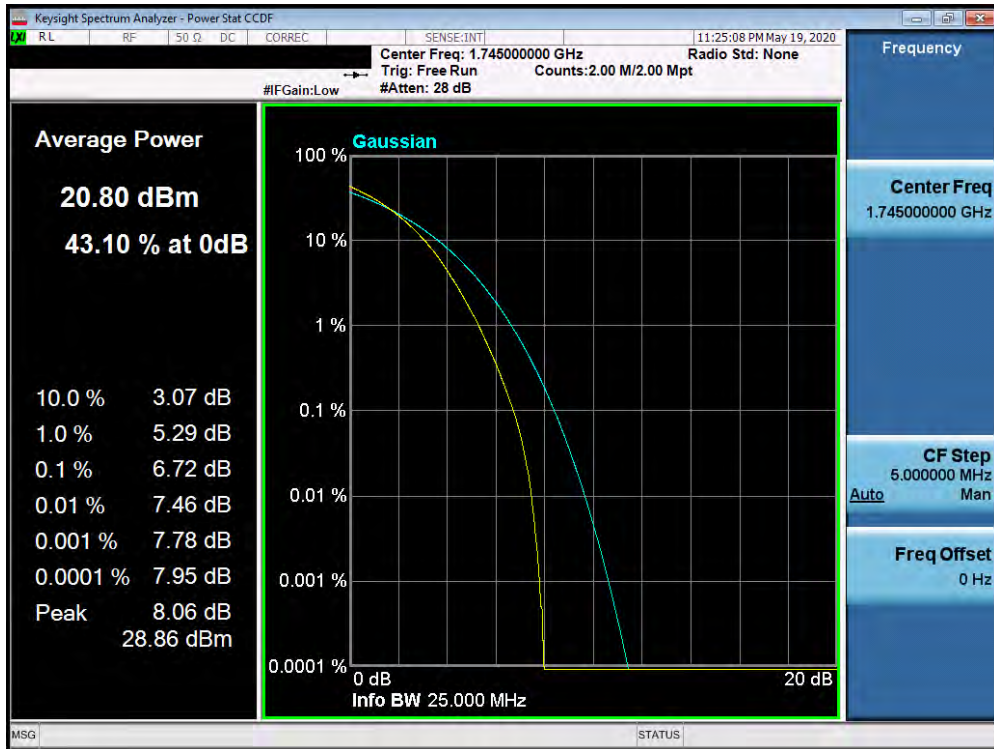


Plot 7-658. PAR Plot (Band 66/4 - 20.0MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMF707U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2005040080-03.A3L	Test Dates: 05/04 - 07/11/2020	EUT Type: Portable Handset		Page 358 of 467



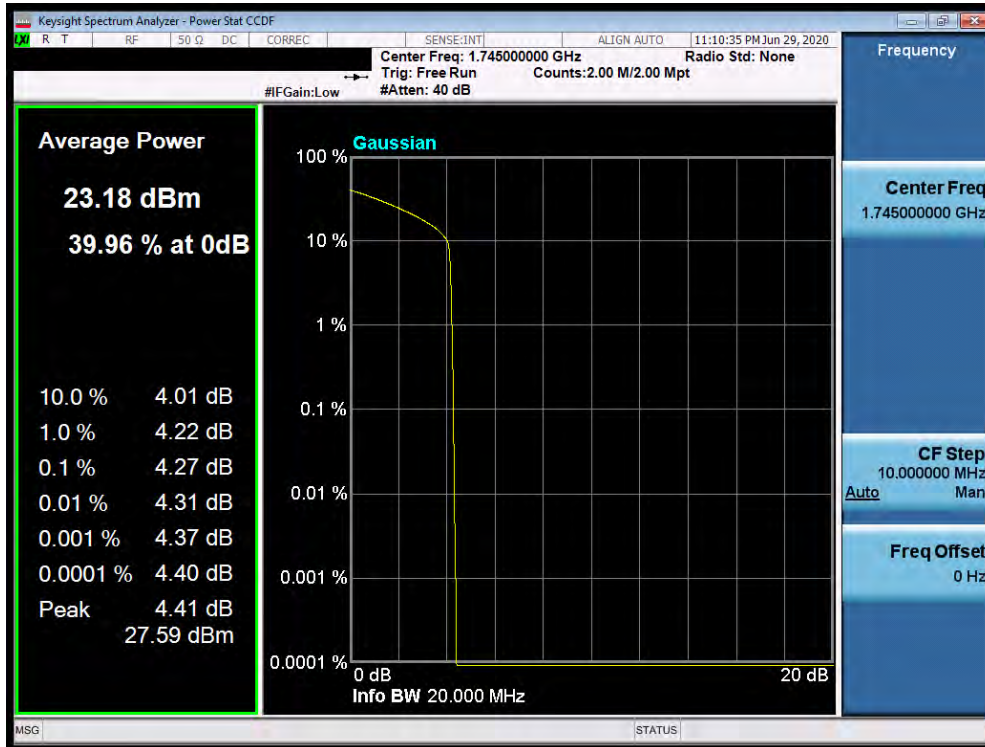
Plot 7-659. PAR Plot (Band 66/4 - 20.0MHz 64-QAM - Full RB Configuration)



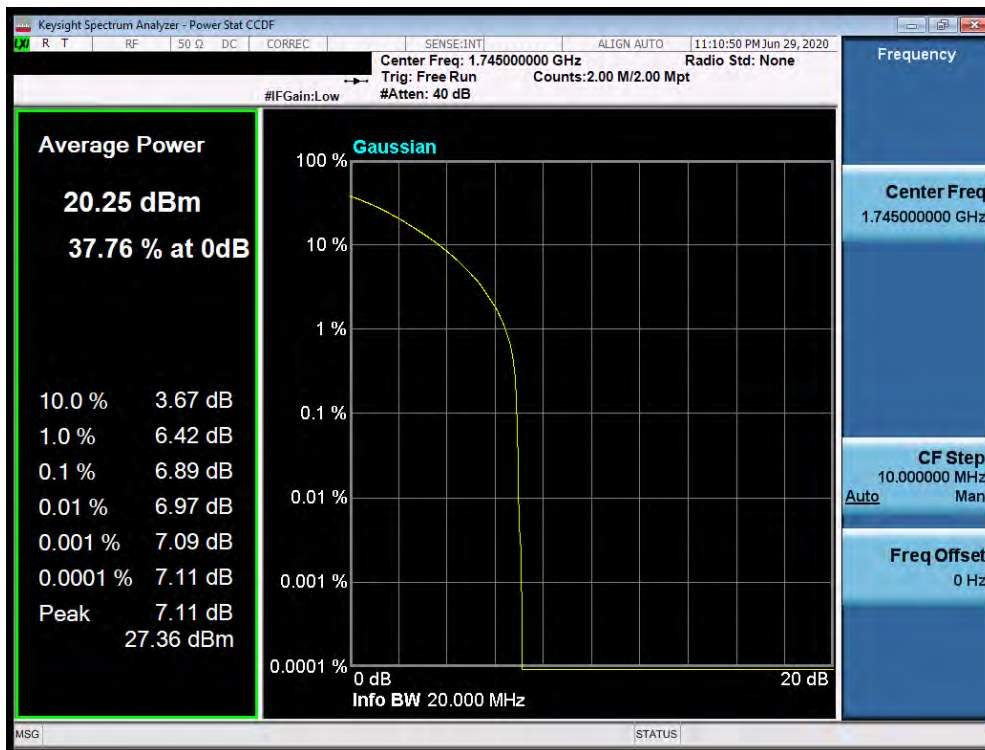
Plot 7-660. PAR Plot (Band 66/4 - 20.0MHz 256-QAM - Full RB Configuration)

FCC ID: A3LSMF707U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2005040080-03.A3L	Test Dates: 05/04 - 07/11/2020	EUT Type: Portable Handset		Page 359 of 467

NR Band n66

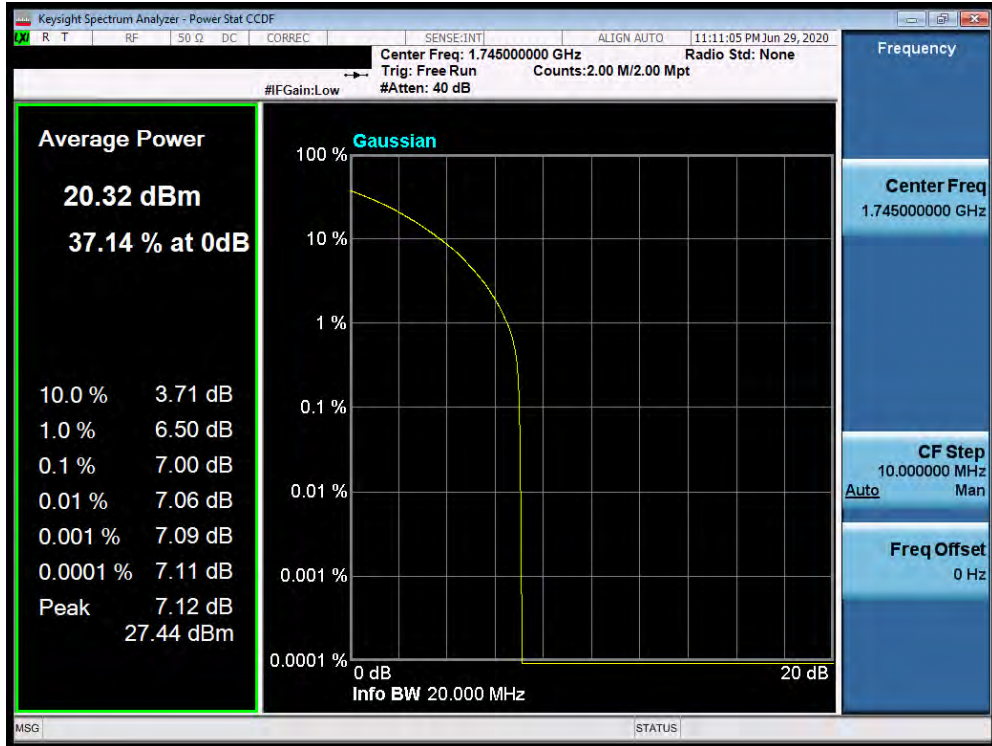


Plot 7-661. PAR Plot (n66 - 5.0MHz DFT-s-OFDM BPSK - Full RB Configuration)

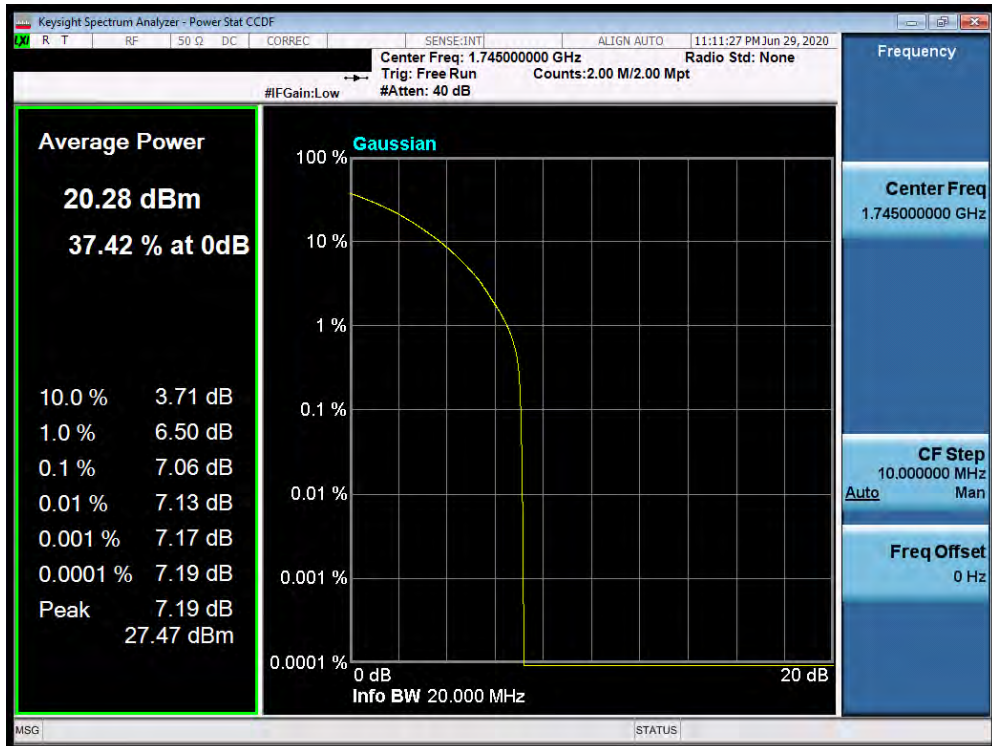


Plot 7-662. PAR Plot (n66 - 5.0MHz CP-OFDM-QPSK - Full RB Configuration)

FCC ID: A3LSMF707U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2005040080-03.A3L	Test Dates: 05/04 - 07/11/2020	EUT Type: Portable Handset		Page 360 of 467

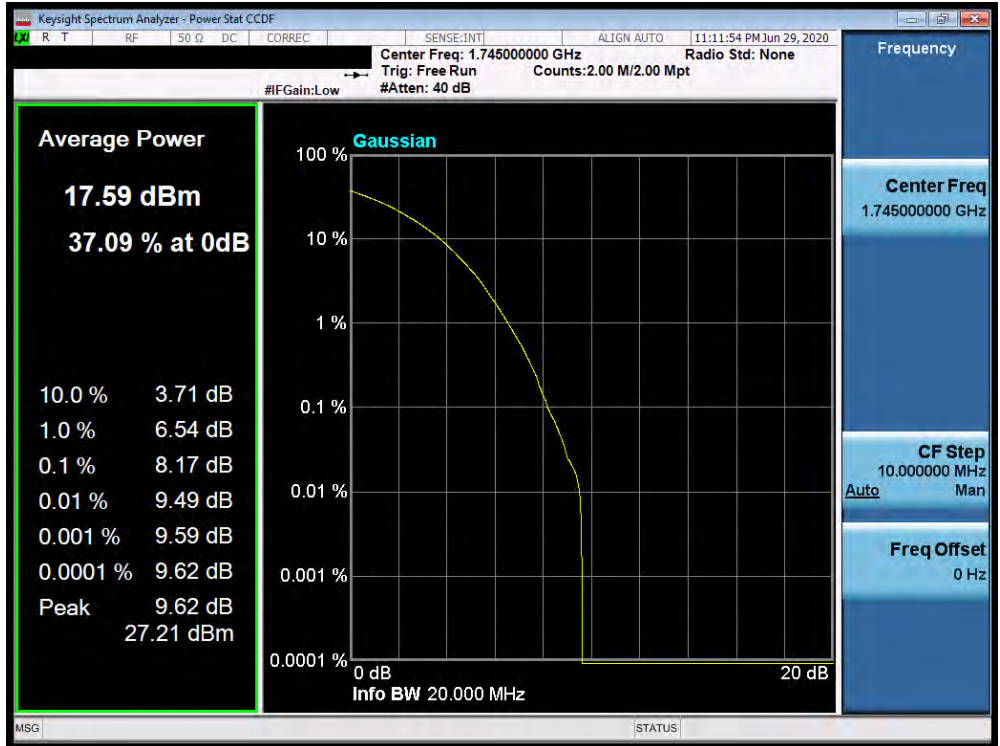


Plot 7-663. PAR Plot (n66 - 5.0MHz CP-OFDM-16-QAM - Full RB Configuration)

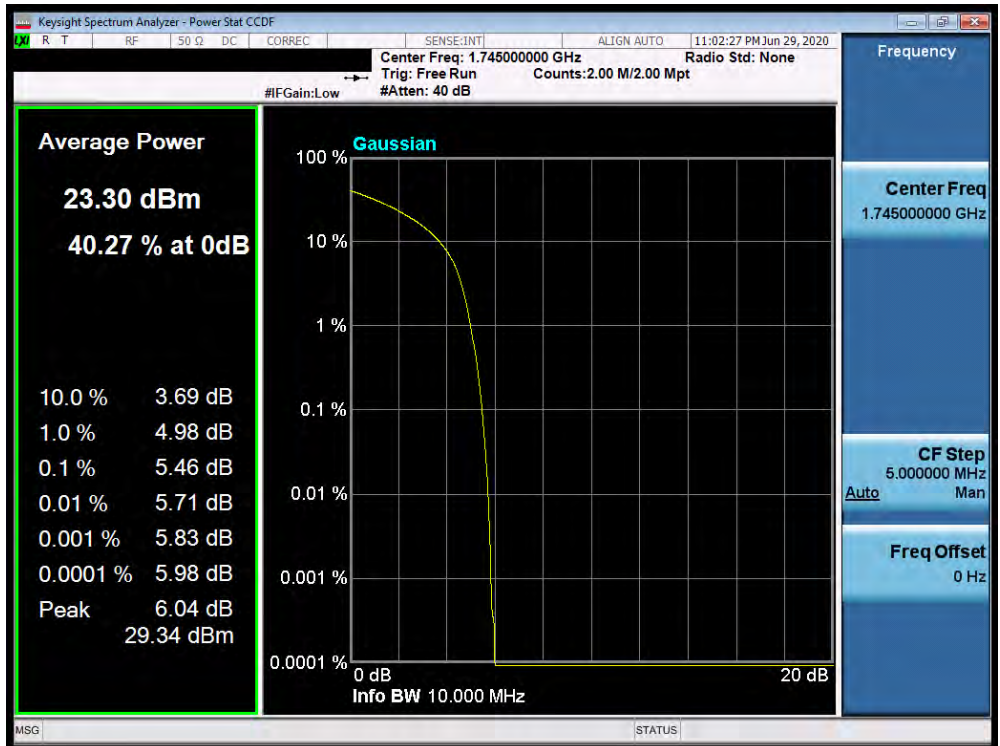


Plot 7-664. PAR Plot (n66 - 5.0MHz CP-OFDM-64-QAM - Full RB Configuration)

FCC ID: A3LSMF707U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2005040080-03.A3L	Test Dates: 05/04 - 07/11/2020	EUT Type: Portable Handset		Page 361 of 467

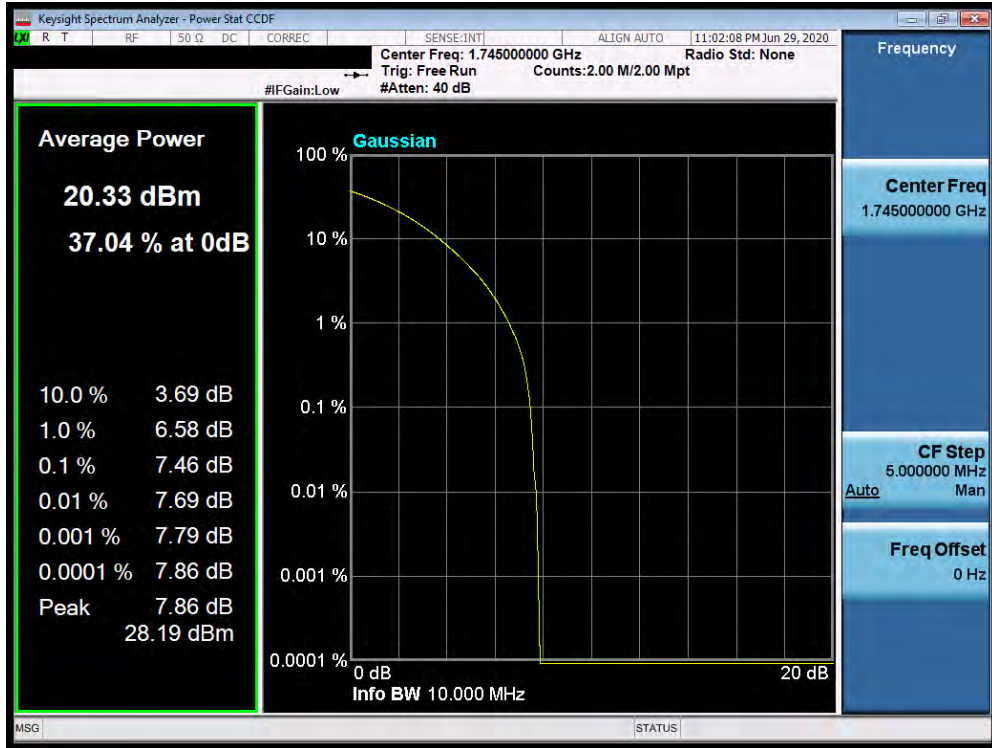


Plot 7-665. PAR Plot (n66 - 5.0MHz CP-OFDM-256-QAM - Full RB Configuration)

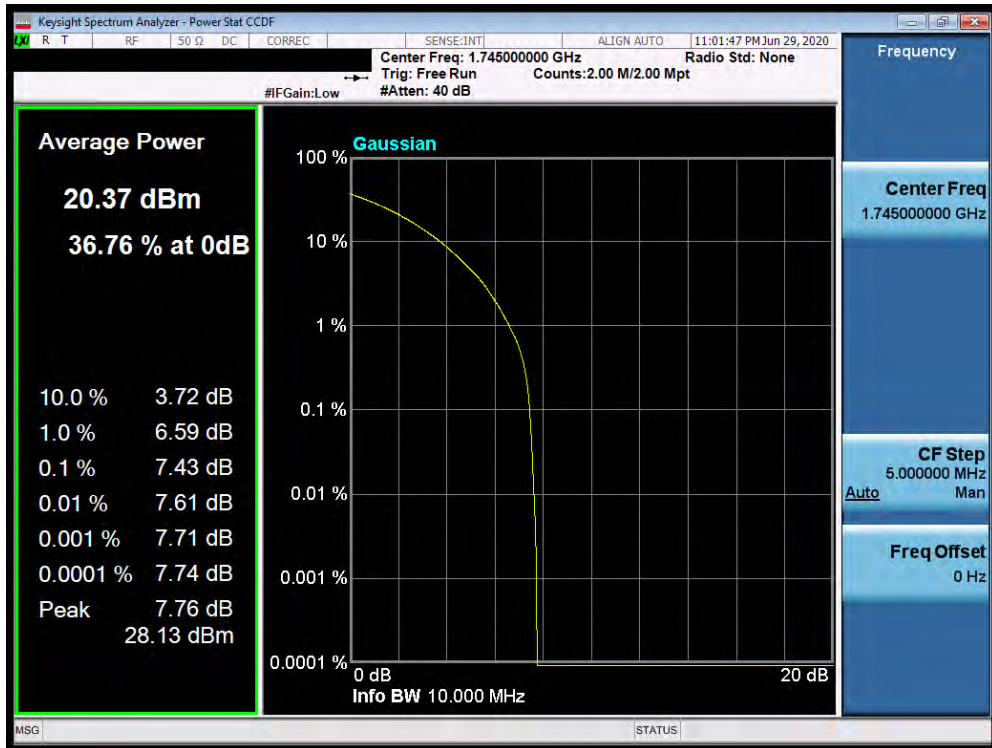


Plot 7-666. PAR Plot (n66 - 10.0MHz DFT-s-OFDM BPSK - Full RB Configuration)

FCC ID: A3LSMF707U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2005040080-03.A3L	Test Dates: 05/04 - 07/11/2020	EUT Type: Portable Handset		Page 362 of 467

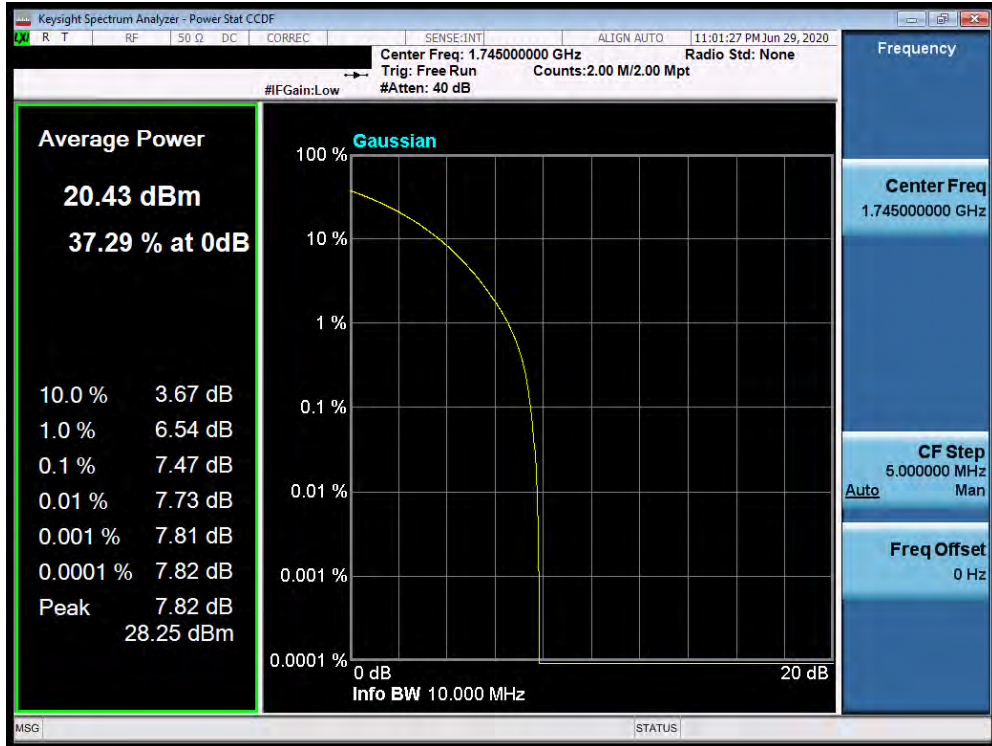


Plot 7-667. PAR Plot (n66 - 10.0MHz CP-OFDM-QPSK - Full RB Configuration)

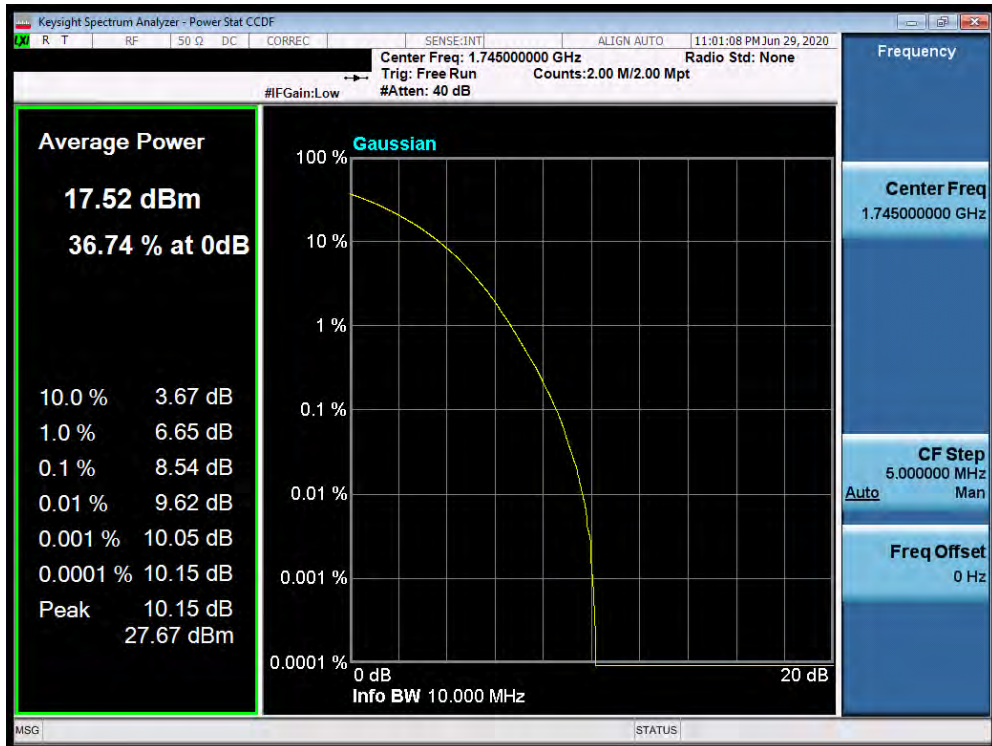


Plot 7-668. PAR Plot (n66 - 10.0MHz CP-OFDM-16-QAM - Full RB Configuration)

FCC ID: A3LSMF707U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2005040080-03.A3L	Test Dates: 05/04 - 07/11/2020	EUT Type: Portable Handset		Page 363 of 467

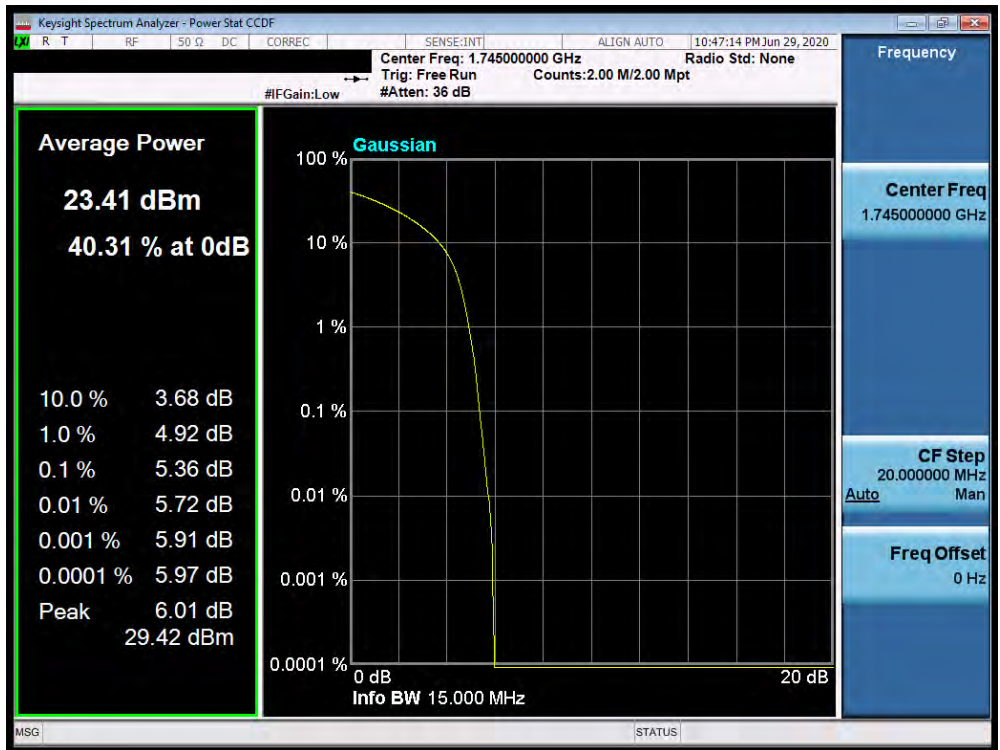


Plot 7-669. PAR Plot (n66 - 10.0MHz CP-OFDM-64-QAM - Full RB Configuration)

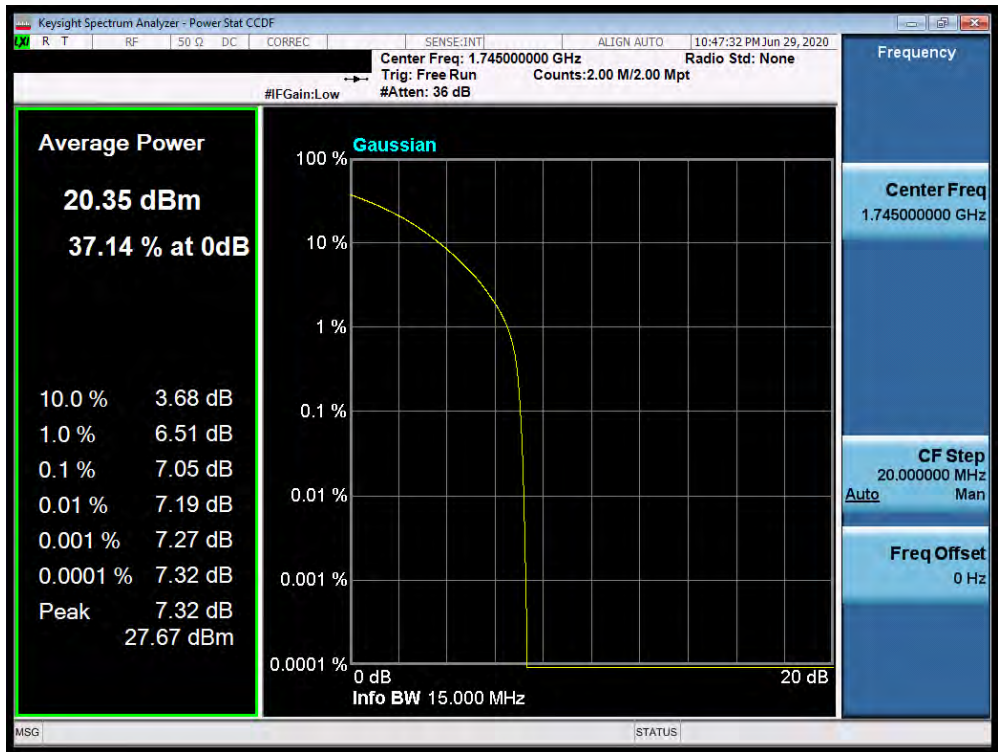


Plot 7-670. PAR Plot (n66 - 10.0MHz CP-OFDM-256-QAM - Full RB Configuration)

FCC ID: A3LSMF707U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2005040080-03.A3L	Test Dates: 05/04 - 07/11/2020	EUT Type: Portable Handset		Page 364 of 467

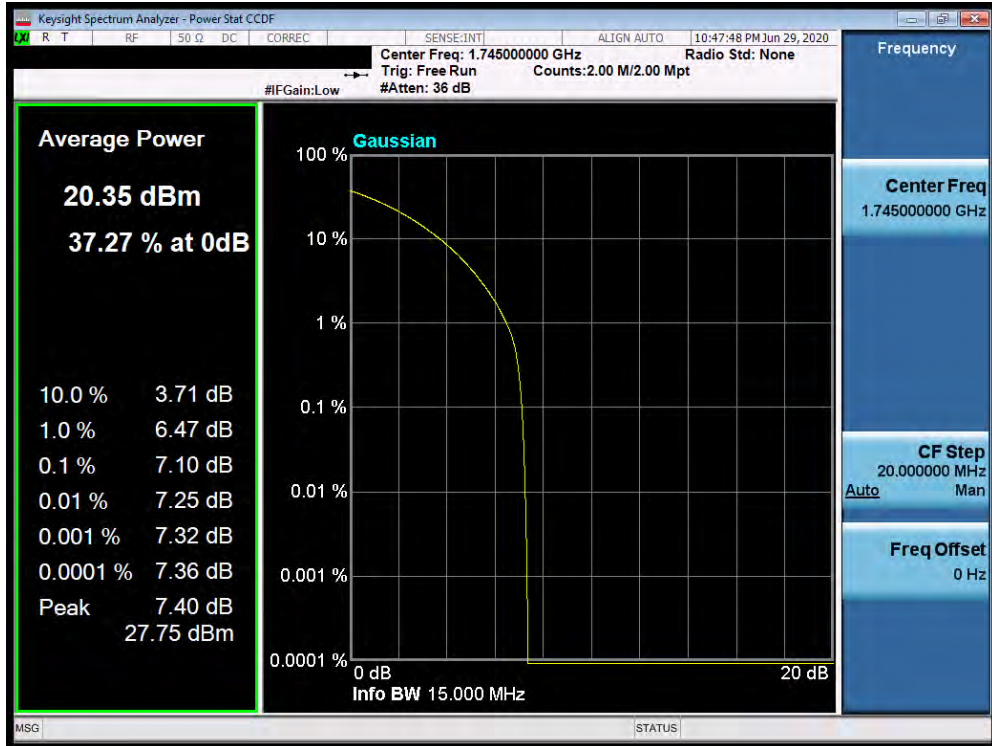


Plot 7-671. PAR Plot (n66 - 15.0MHz DFT-s-OFDM BPSK - Full RB Configuration)

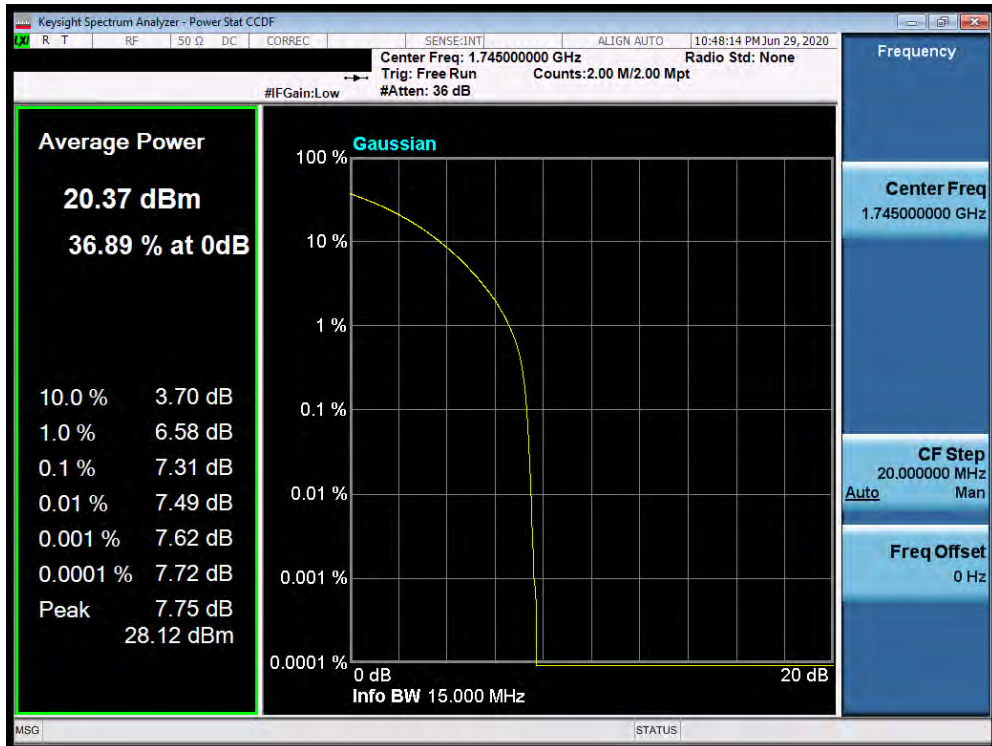


Plot 7-672. PAR Plot (n66 - 15.0MHz CP-OFDM-QPSK - Full RB Configuration)

FCC ID: A3LSMF707U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2005040080-03.A3L	Test Dates: 05/04 - 07/11/2020	EUT Type: Portable Handset		Page 365 of 467

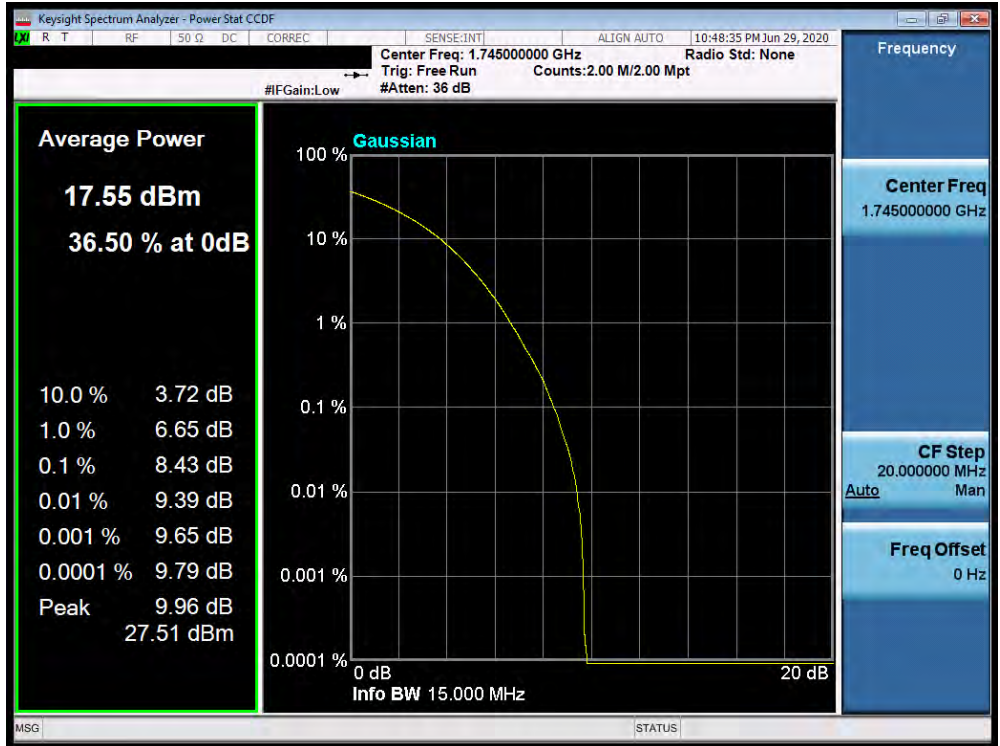


Plot 7-673. PAR Plot (n66 - 15.0MHz CP-OFDM-16-QAM - Full RB Configuration)

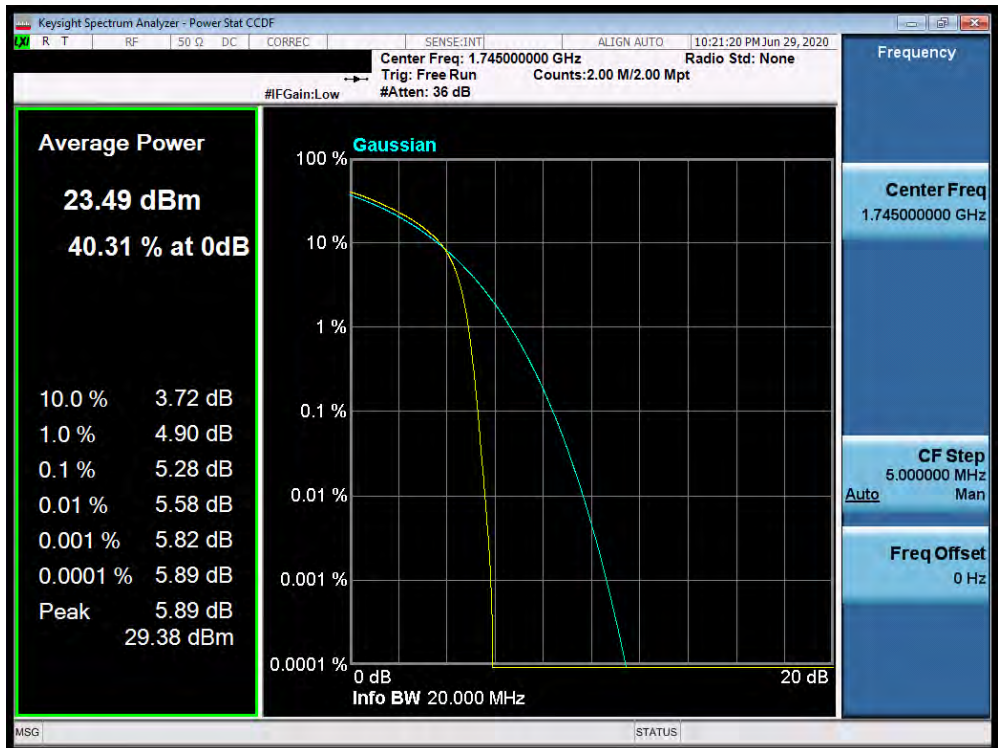


Plot 7-674. PAR Plot (n66 - 15.0MHz CP-OFDM-64-QAM - Full RB Configuration)

FCC ID: A3LSMF707U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2005040080-03.A3L	Test Dates: 05/04 - 07/11/2020	EUT Type: Portable Handset		Page 366 of 467

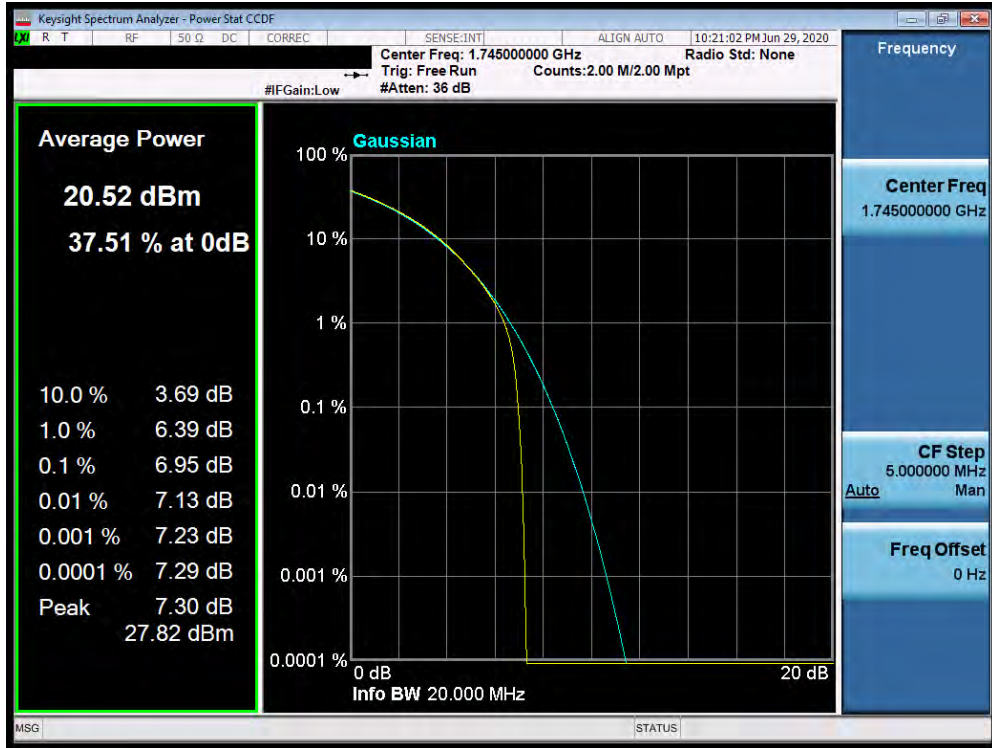


Plot 7-675. PAR Plot (n66 - 15.0MHz CP-OFDM-256-QAM - Full RB Configuration)

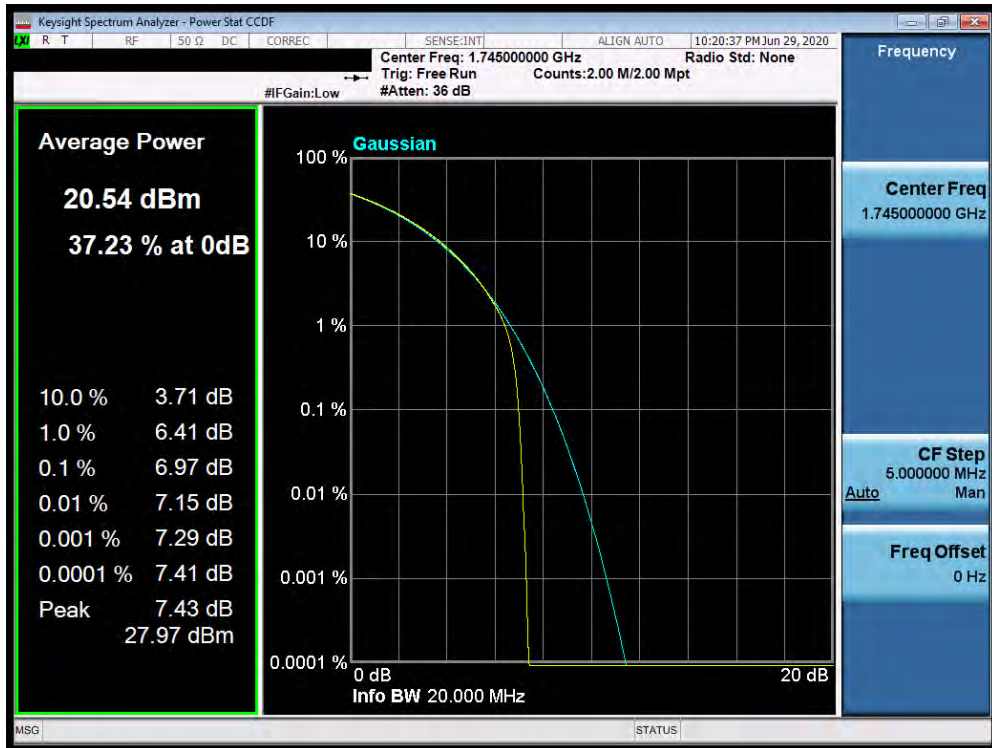


Plot 7-676. PAR Plot (n66 - 20.0MHz DFT-s-OFDM BPSK - Full RB Configuration)

FCC ID: A3LSMF707U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2005040080-03.A3L	Test Dates: 05/04 - 07/11/2020	EUT Type: Portable Handset		Page 367 of 467

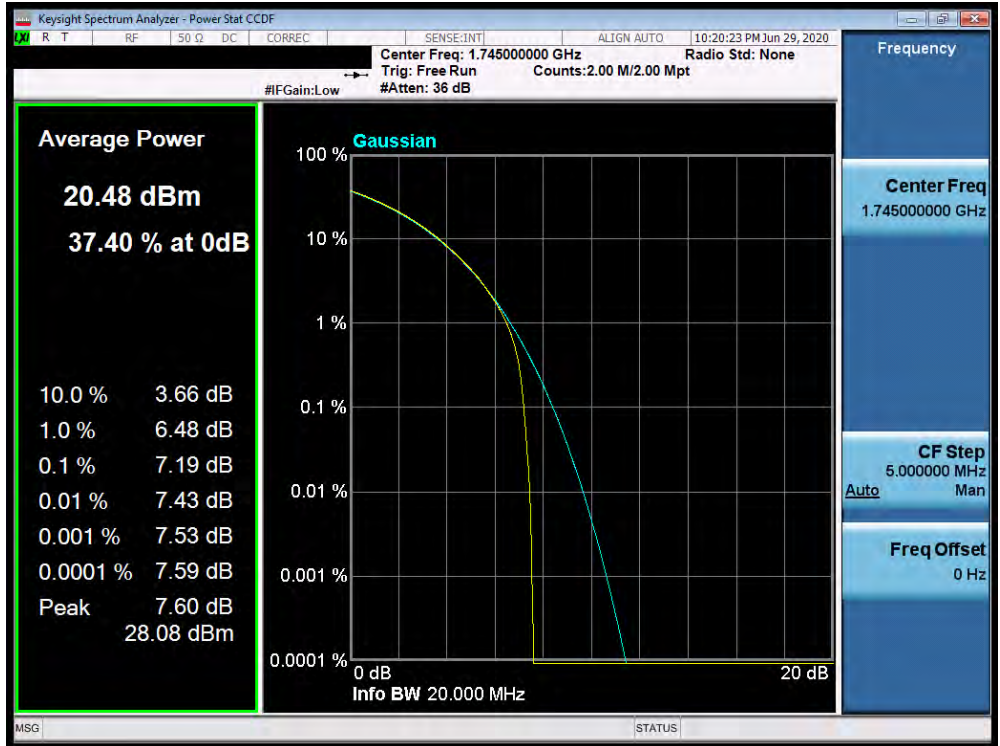


Plot 7-677. PAR Plot (n66 - 20.0MHz CP-OFDM-QPSK - Full RB Configuration)

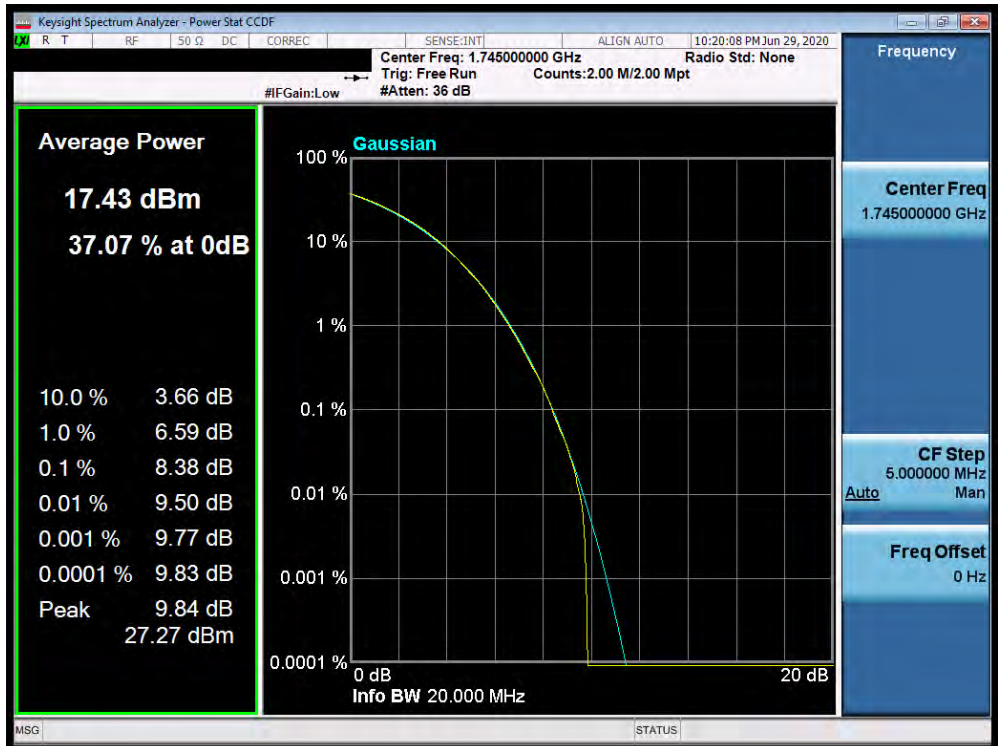


Plot 7-678. PAR Plot (n66 - 20.0MHz CP-OFDM-16-QAM - Full RB Configuration)

FCC ID: A3LSMF707U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2005040080-03.A3L	Test Dates: 05/04 - 07/11/2020	EUT Type: Portable Handset		Page 368 of 467



Plot 7-679. PAR Plot (n66 - 20.0MHz CP-OFDM-64-QAM - Full RB Configuration)



Plot 7-680. PAR Plot (n66 - 20.0MHz CP-OFDM-256-QAM - Full RB Configuration)

FCC ID: A3LSMF707U	PCTEST Proud to be part of element	MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2005040080-03.A3L	Test Dates: 05/04 - 07/11/2020	EUT Type: Portable Handset		Page 369 of 467

7.6 Uplink Carrier Aggregation

\$27.53(h), 22.913

Test Overview

The EUT is set up to transmit two contiguous LTE channels. The power level of both carriers and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

For Band 38/41, the minimum permissible attenuation level of any spurious emission is $55 + 10 \log_{10}(P_{[Watts]})$.
For Band 5, the minimum permissible attenuation level of any spurious emission is $43 + 10 \log_{10}(P_{[Watts]})$.
For Band 66, the minimum permissible attenuation level of any spurious emission is $43 + 10 \log_{10}(P_{[Watts]})$.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 6.0

Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to at least 10 * the fundamental frequency (separated into at least two plots per channel)
2. Detector = RMS
3. Trace mode = trace average for continuous emissions, max hold for pulse emissions
4. Sweep time = auto couple
5. The trace was allowed to stabilize
6. Please see test notes below for RBW and VBW settings

Test Setup

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



Figure 7-5. Test Instrument & Measurement Setup

FCC ID: A3LSMF707U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2005040080-03.A3L	Test Dates: 05/04 – 07/11/2020	EUT Type: Portable Handset		Page 370 of 467

Test Notes

1. Conducted power and spurious emissions measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. Channel bandwidth data is shown in the tables below based only on the channel bandwidths that were supported in this device. The worst case (highest) powers were found while operating with QPSK modulation, as shown in Table 7-503 and 7-504 below, with both carriers set to transmit using 1RB.

2. Compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater for frequencies less than 1 GHz and 1 MHz or greater for frequencies greater than 1 GHz. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

FCC ID: A3LSMF707U		MEASUREMENT REPORT (CERTIFICATION)	 Approved by: Quality Manager
Test Report S/N: 1M2005040080-03.A3L	Test Dates: 05/04 – 07/11/2020	EUT Type: Portable Handset	Page 371 of 467

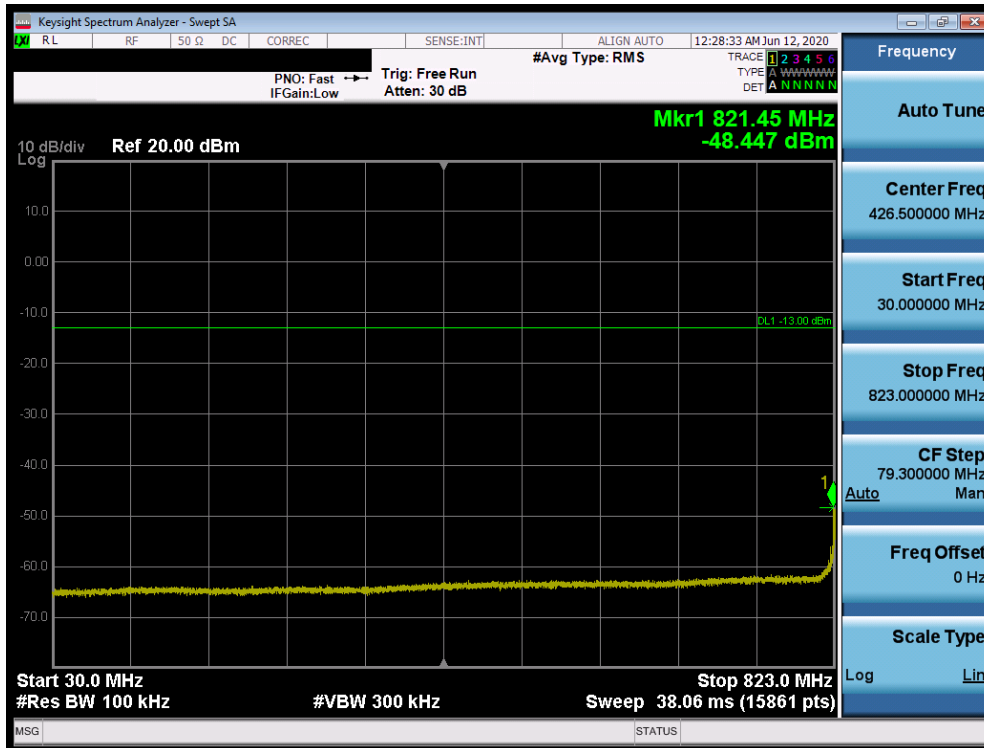
Uplink CA Configuration 5B

Power State	PCC							SCC							Power ULCA Tx.Power (dBm)
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	
Max	LTE B5	10	20450	829	QPSK	1	49	LTE B5	10	20549	838.9	QPSK	1	0	25.06
Max	LTE B5	10	20525	836.5	QPSK	1	49	LTE B5	5	20597	843.7	QPSK	1	0	24.77
Max	LTE B5	10	20600	844	QPSK	1	0	LTE B5	10	20501	834.1	QPSK	1	49	24.57

Table 7-3. Conducted Powers (B5 – PCC/SCC: RB Size 1)

Power State	PCC							SCC							Power ULCA Tx.Power (dBm)
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	
Max	LTE B5	10	20600	844	QPSK	50	0	LTE B5	10	20699	853.9	QPSK	50	0	23.29
Max	LTE B5	10	20600	844	16-QAM	50	0	LTE B5	10	20699	853.9	16-QAM	50	0	22.25
Max	LTE B5	10	20600	844	64-QAM	50	0	LTE B5	10	20699	853.9	64-QAM	50	0	21.33
Max	LTE B5	10	20600	844	256-QAM	50	0	LTE B5	10	20699	853.9	256-QAM	50	0	19.02

Table 7-4. Conducted Powers (B5 with Various Modulations for 10MHz Channel Bandwidth)



Plot 7-681. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – PCC 1/49 SCC 1/0 – Low Channel)

FCC ID: A3LSMF707U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M2005040080-03.A3L	Test Dates: 05/04 – 07/11/2020	EUT Type: Portable Handset		Page 372 of 467