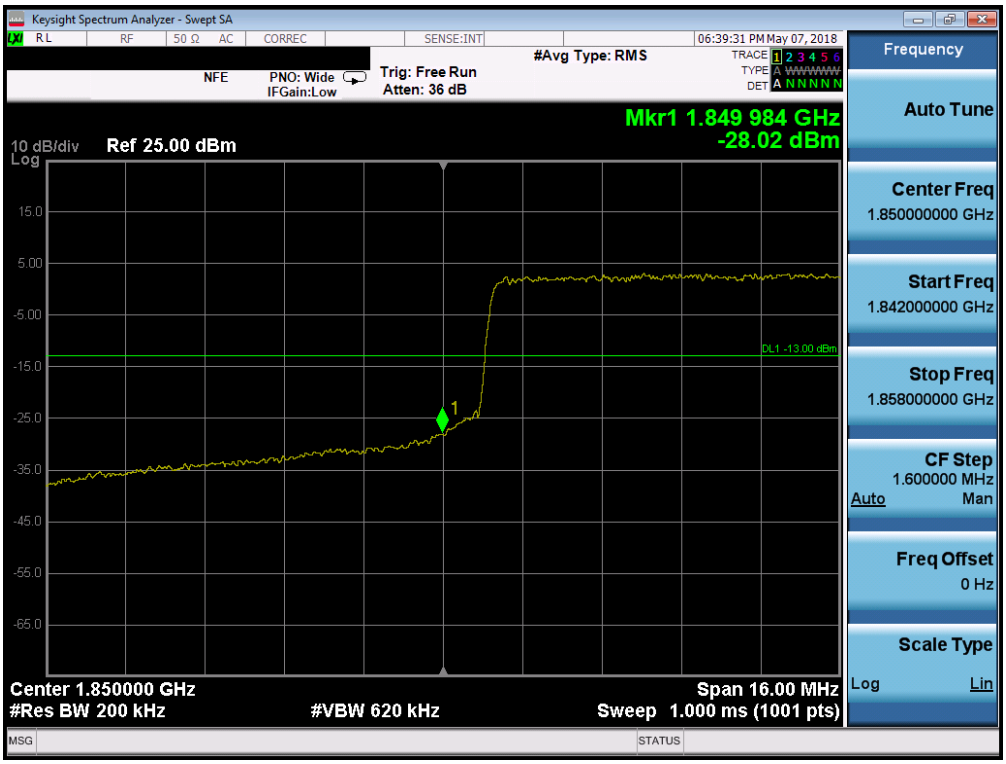
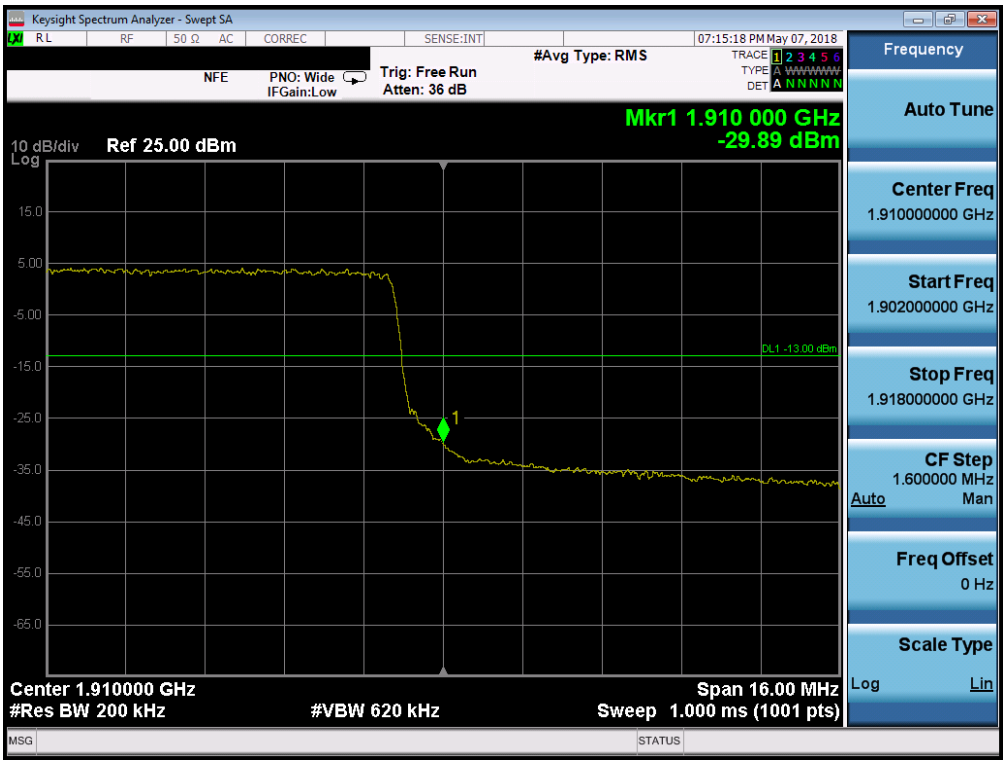


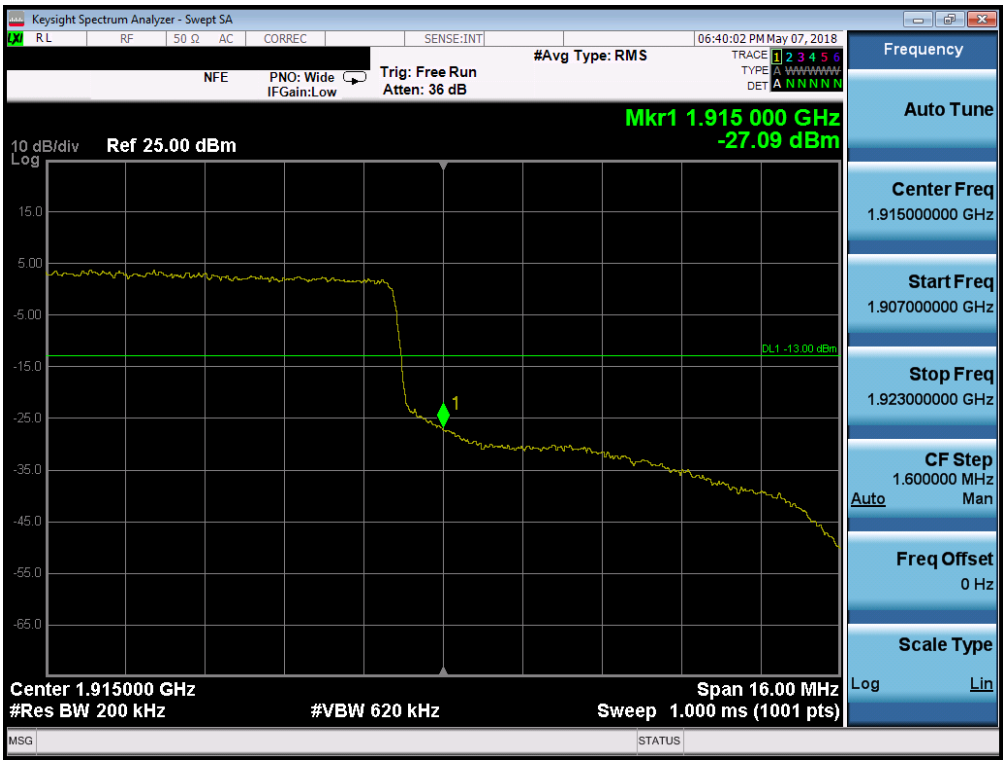
Plot 7-242. Lower Band Edge Plot (Band 25/2 - 20.0MHz QPSK - Full RB Configuration)

Plot 7-243. Lower Extended Band Edge Plot (Band 25/2 - 20.0MHz QPSK - Full RB Configuration)



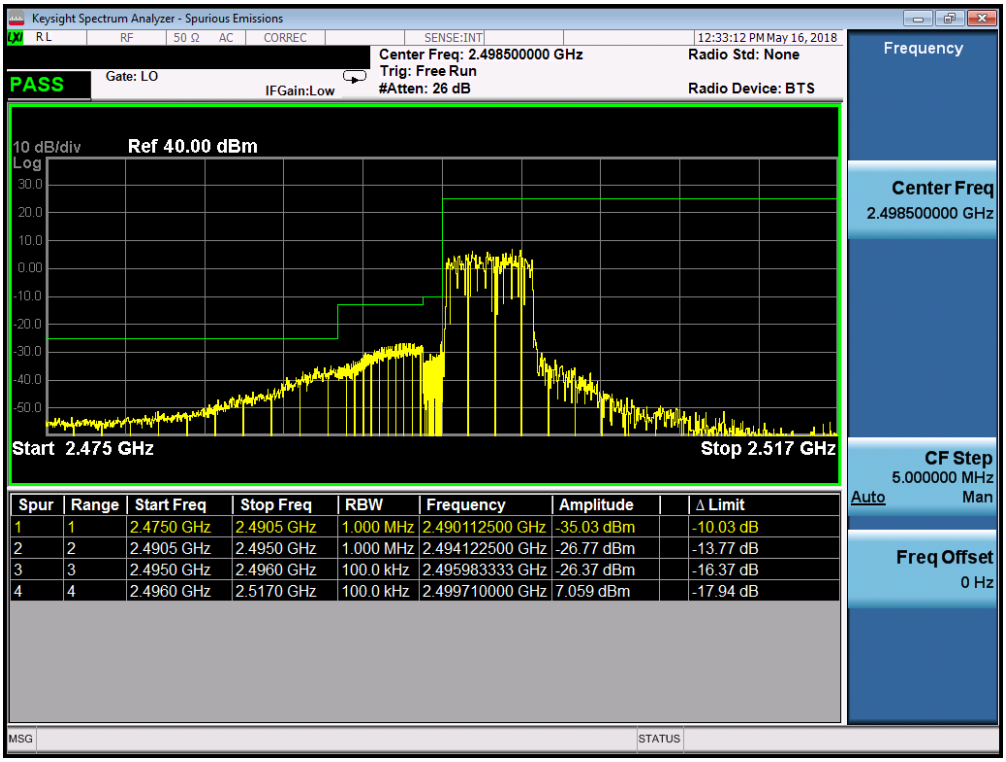
Plot 7-244. Upper Band Edge Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)

Plot 7-245. Upper Extended Band Edge Plot (Band 2 - 20.0MHz QPSK - Full RB Configuration)



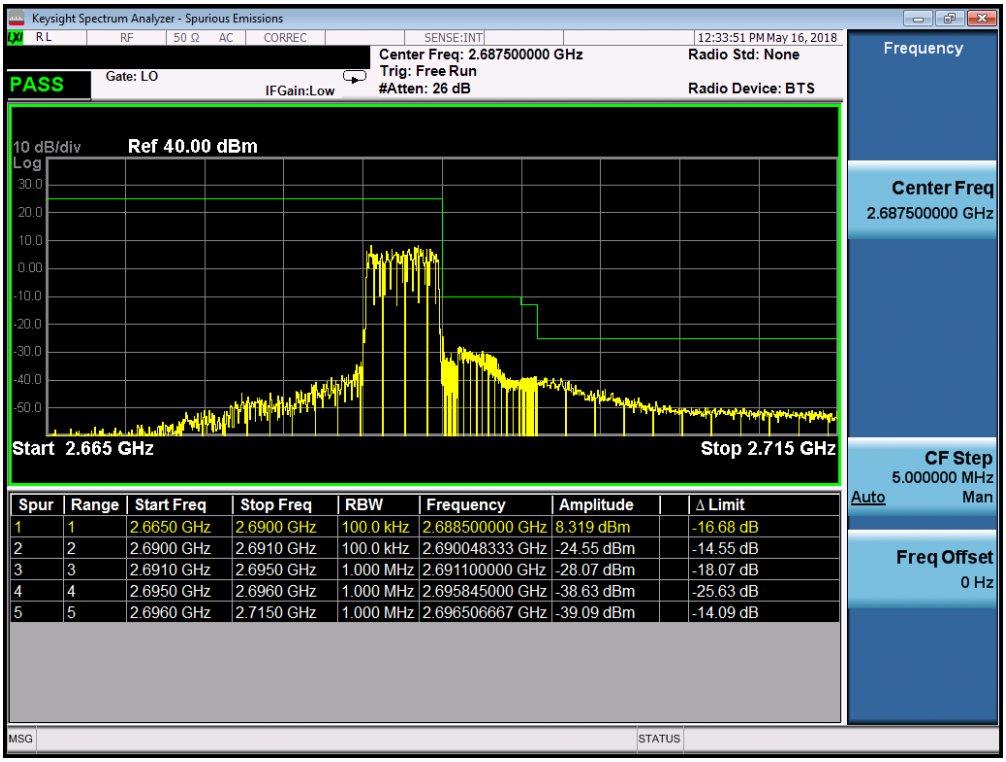
Plot 7-246. Upper Band Edge Plot (Band 25 - 20.0MHz QPSK - Full RB Configuration)

Plot 7-247. Upper Extended Band Edge Plot (Band 25 - 20.0MHz QPSK - Full RB Configuration)



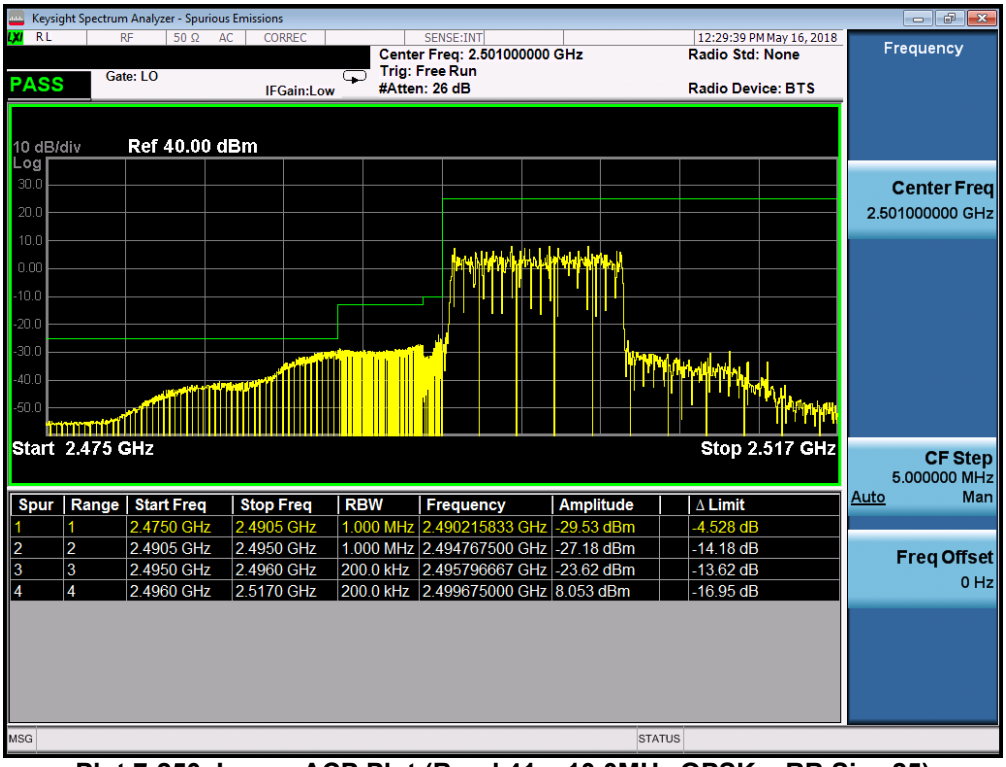
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.4750 GHz	2.4905 GHz	1.000 MHz	2.490112500 GHz	-35.03 dBm	-10.03 dB
2	2	2.4905 GHz	2.4950 GHz	1.000 MHz	2.494122500 GHz	-26.77 dBm	-13.77 dB
3	3	2.4950 GHz	2.4960 GHz	100.0 kHz	2.495983333 GHz	-26.37 dBm	-16.37 dB
4	4	2.4960 GHz	2.5170 GHz	100.0 kHz	2.499710000 GHz	7.059 dBm	-17.94 dB

Plot 7-248. Lower ACP Plot (Band 41 – 5.0MHz QPSK – RB Size 25)

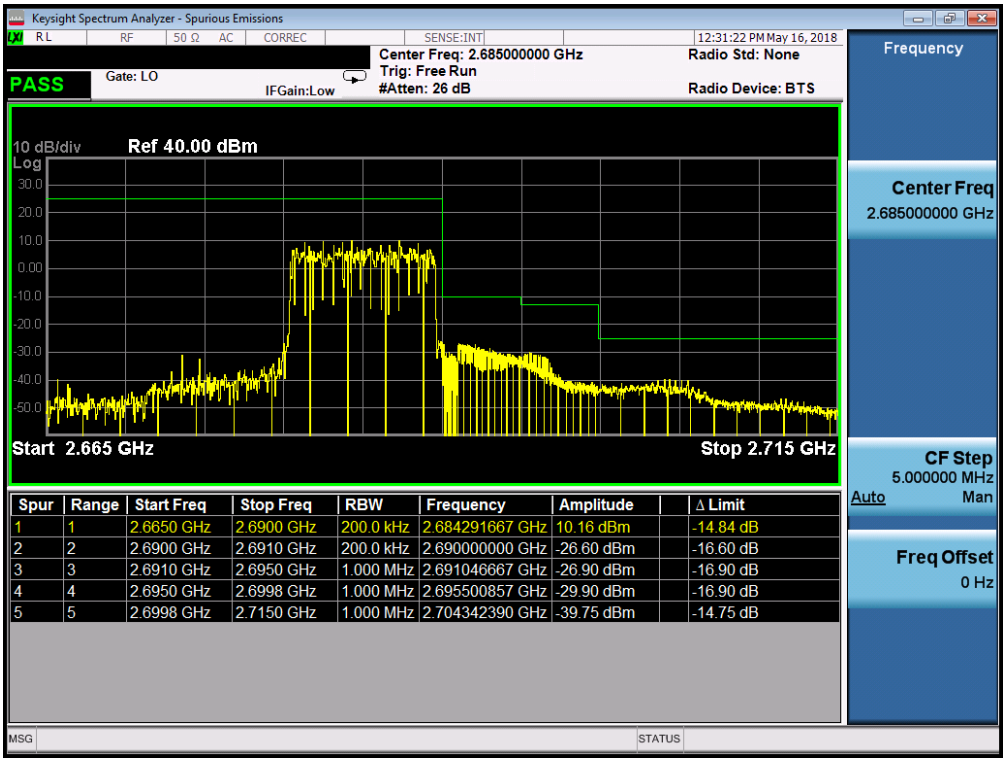


Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.6650 GHz	2.6900 GHz	100.0 kHz	2.688500000 GHz	8.319 dBm	-16.68 dB
2	2	2.6900 GHz	2.6910 GHz	100.0 kHz	2.690048333 GHz	-24.55 dBm	-14.55 dB
3	3	2.6910 GHz	2.6950 GHz	1.000 MHz	2.691100000 GHz	-28.07 dBm	-18.07 dB
4	4	2.6950 GHz	2.6960 GHz	1.000 MHz	2.695845000 GHz	-38.63 dBm	-25.63 dB
5	5	2.6960 GHz	2.7150 GHz	1.000 MHz	2.696506667 GHz	-39.09 dBm	-14.09 dB

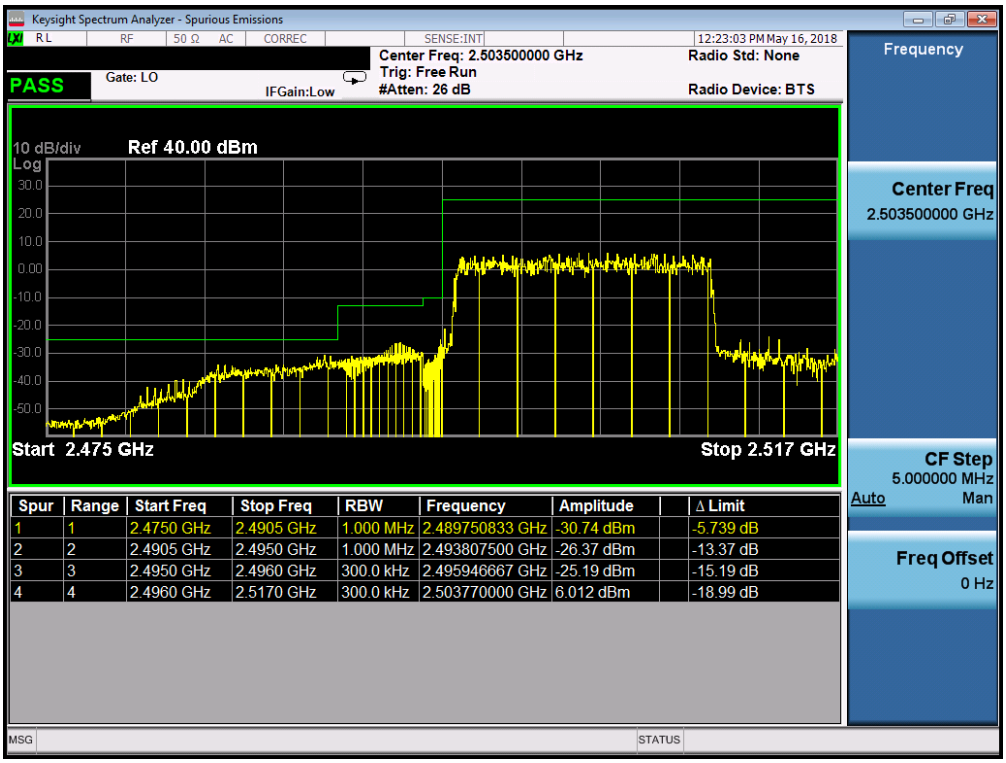
Plot 7-249. Upper ACP Plot (Band 41 – 5.0MHz QPSK – RB Size 25)



Plot 7-250. Lower ACP Plot (Band 41 – 10.0MHz QPSK – RB Size 25)

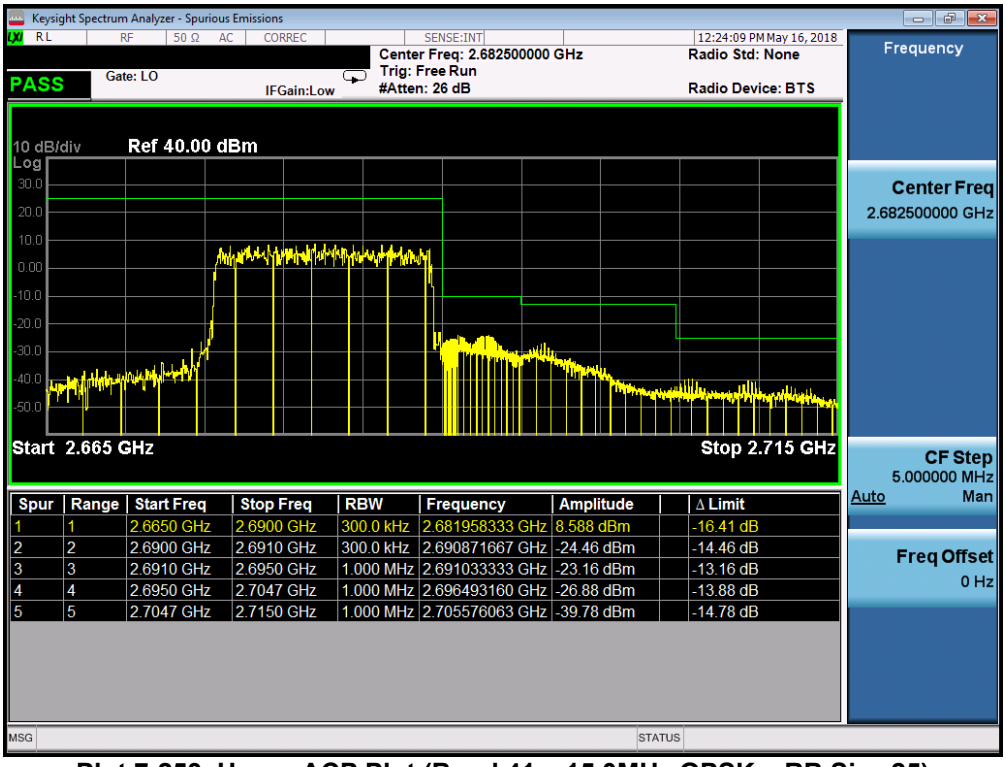


Plot 7-251. Upper ACP Plot (Band 41 – 10.0MHz QPSK – RB Size 25)



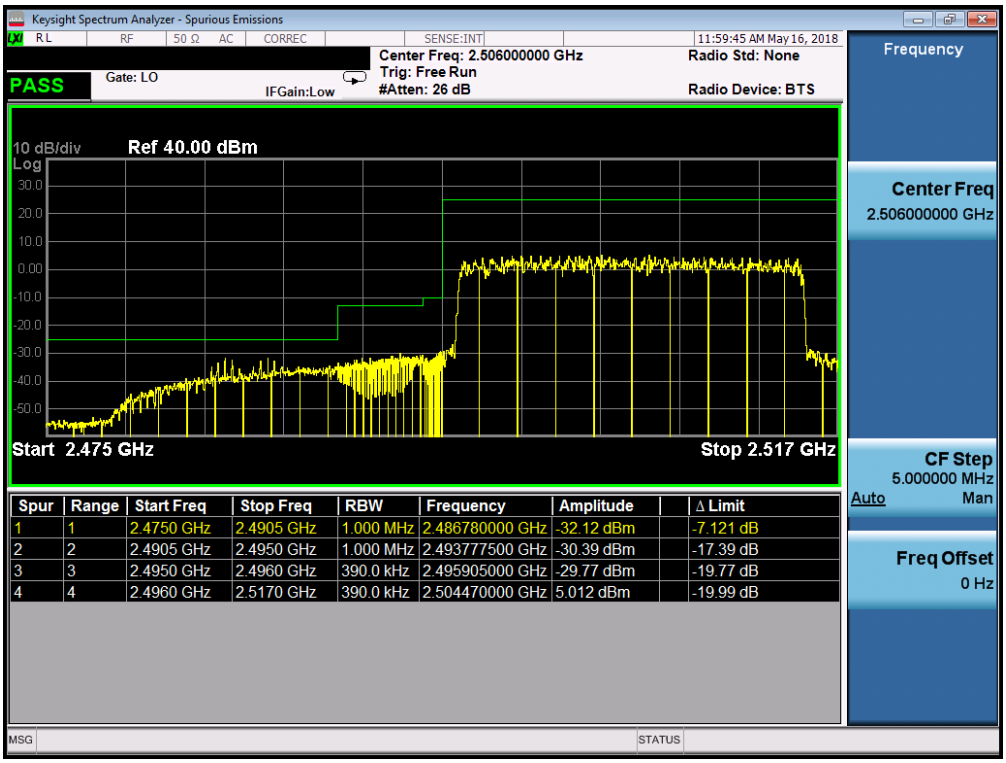
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.4750 GHz	2.4905 GHz	1.000 MHz	2.489750833 GHz	-30.74 dBm	-5.739 dB
2	2	2.4905 GHz	2.4950 GHz	1.000 MHz	2.493807500 GHz	-26.37 dBm	-13.37 dB
3	3	2.4950 GHz	2.4960 GHz	300.0 kHz	2.495946667 GHz	-25.19 dBm	-15.19 dB
4	4	2.4960 GHz	2.5170 GHz	300.0 kHz	2.503770000 GHz	6.012 dBm	-18.99 dB

Plot 7-252. Lower ACP Plot (Band 41 – 15.0MHz QPSK – RB Size 25)



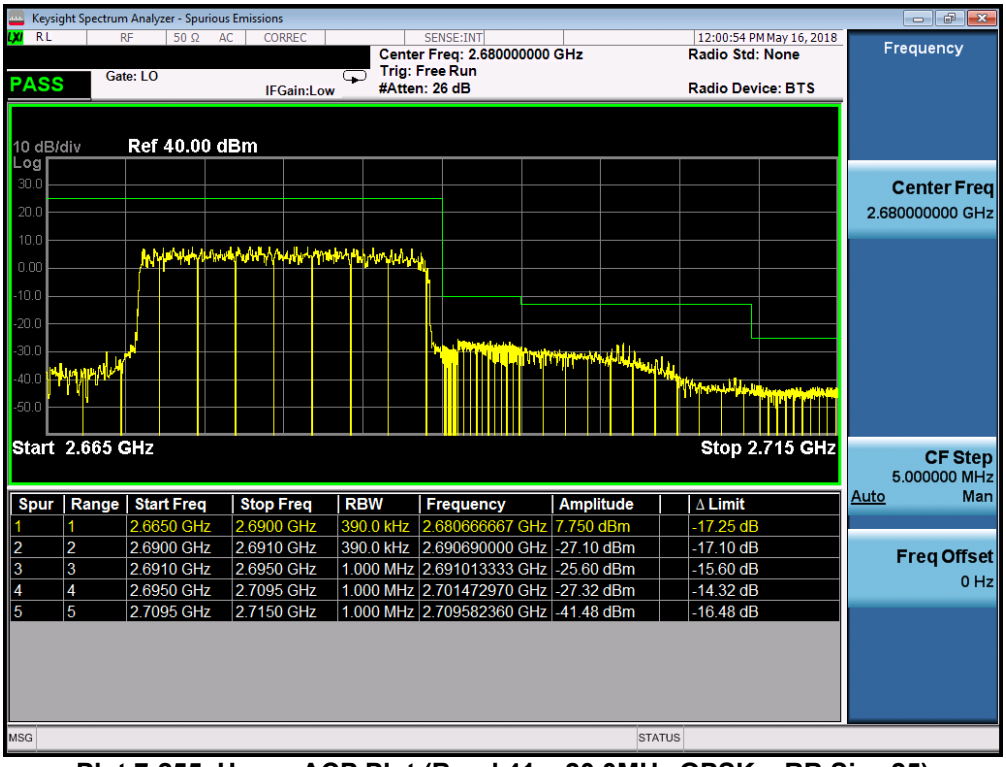
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.6650 GHz	2.6900 GHz	300.0 kHz	2.681958333 GHz	8.588 dBm	-16.41 dB
2	2	2.6900 GHz	2.6910 GHz	300.0 kHz	2.690871667 GHz	-24.46 dBm	-14.46 dB
3	3	2.6910 GHz	2.6950 GHz	1.000 MHz	2.691033333 GHz	-23.16 dBm	-13.16 dB
4	4	2.6950 GHz	2.7047 GHz	1.000 MHz	2.696493160 GHz	-26.88 dBm	-13.88 dB
5	5	2.7047 GHz	2.7150 GHz	1.000 MHz	2.705576063 GHz	-39.78 dBm	-14.78 dB

Plot 7-253. Upper ACP Plot (Band 41 – 15.0MHz QPSK – RB Size 25)



Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.4750 GHz	2.4905 GHz	1.000 MHz	2.486780000 GHz	-32.12 dBm	-7.121 dB
2	2	2.4905 GHz	2.4950 GHz	1.000 MHz	2.493777500 GHz	-30.39 dBm	-17.39 dB
3	3	2.4950 GHz	2.4960 GHz	390.0 kHz	2.495905000 GHz	-29.77 dBm	-19.77 dB
4	4	2.4960 GHz	2.5170 GHz	390.0 kHz	2.504470000 GHz	5.012 dBm	-19.99 dB

Plot 7-254. Lower ACP Plot (Band 41 – 20.0MHz QPSK – RB Size 25)



Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.6650 GHz	2.6900 GHz	390.0 kHz	2.680666667 GHz	7.750 dBm	-17.25 dB
2	2	2.6900 GHz	2.6910 GHz	390.0 kHz	2.690690000 GHz	-27.10 dBm	-17.10 dB
3	3	2.6910 GHz	2.6950 GHz	1.000 MHz	2.691013333 GHz	-25.60 dBm	-15.60 dB
4	4	2.6950 GHz	2.7095 GHz	1.000 MHz	2.701472970 GHz	-27.32 dBm	-14.32 dB
5	5	2.7095 GHz	2.7150 GHz	1.000 MHz	2.709582360 GHz	-41.48 dBm	-16.48 dB

Plot 7-255. Upper ACP Plot (Band 41 – 20.0MHz QPSK – RB Size 25)

7.5 Peak-Average Ratio

Test Overview

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

Test Procedure Used

KDB 971168 D01 v03r01 – Section 5.7.1

Test Settings

1. The signal analyzer's CCDF measurement profile is enabled
2. Frequency = carrier center frequency
3. Measurement BW > Emission bandwidth of signal
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.

Test Setup

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

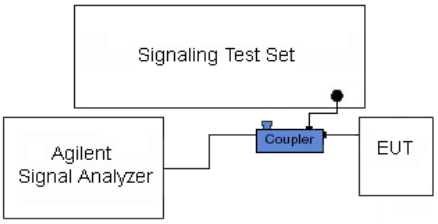
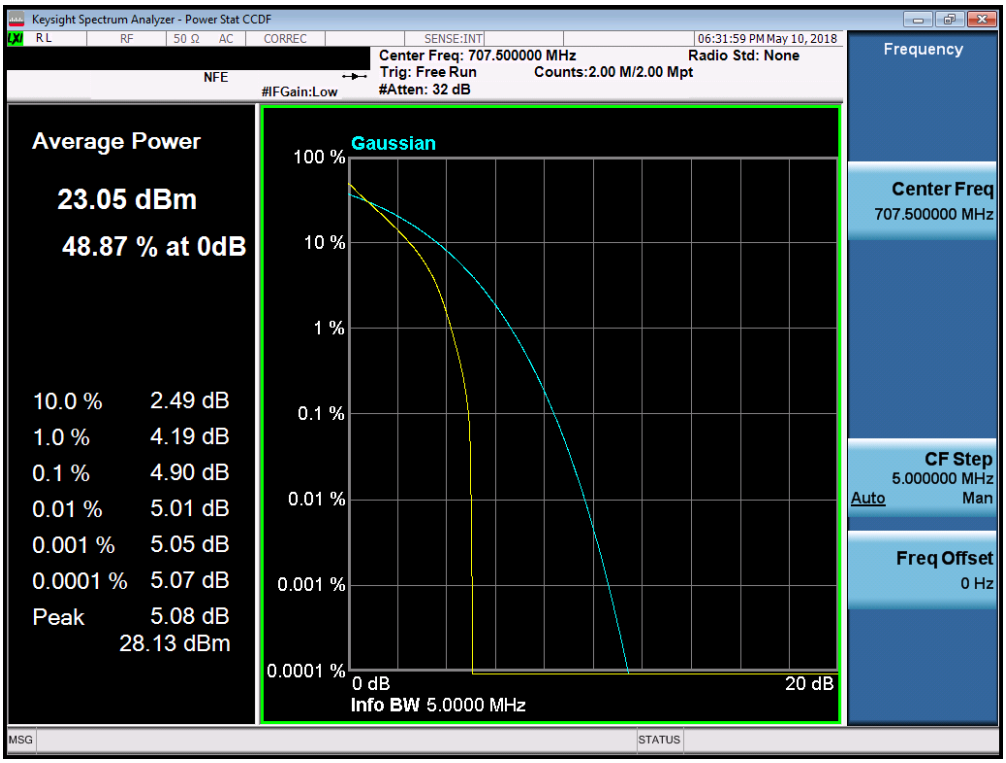


Figure 7-4. Test Instrument & Measurement Setup

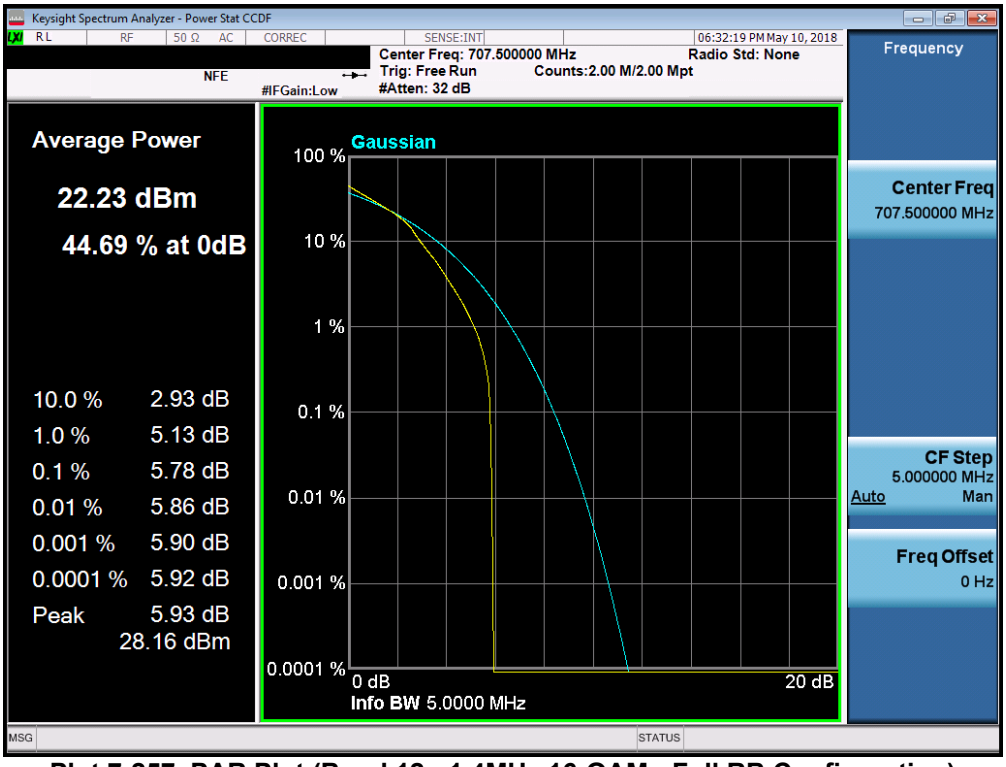
Test Notes

None.

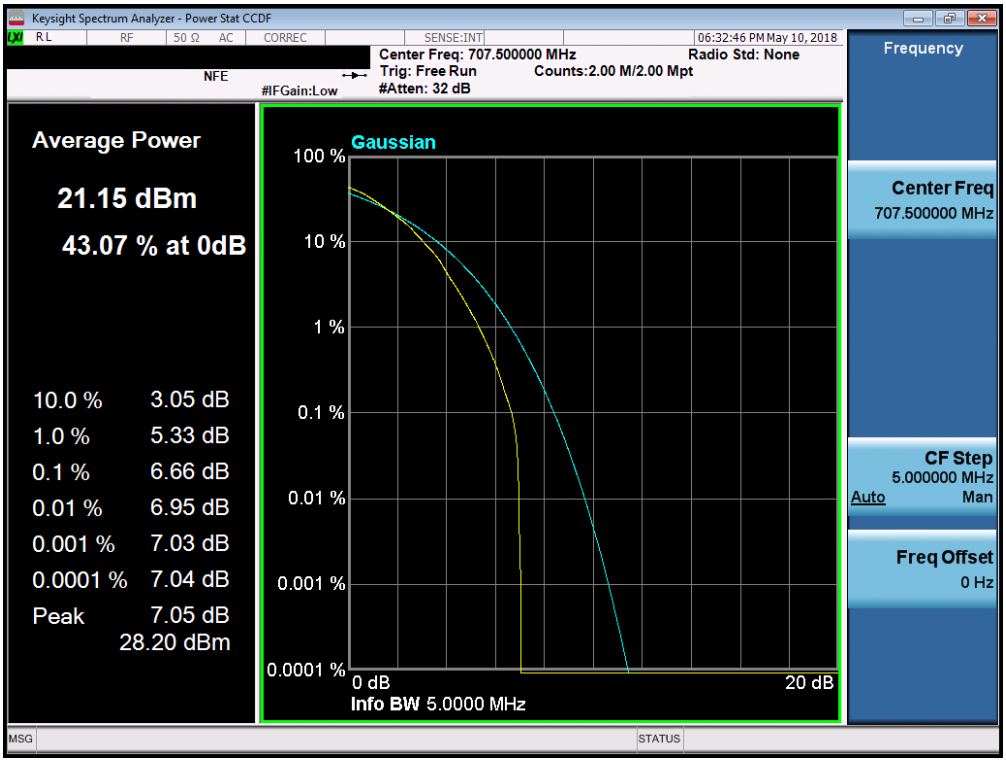
Band 12



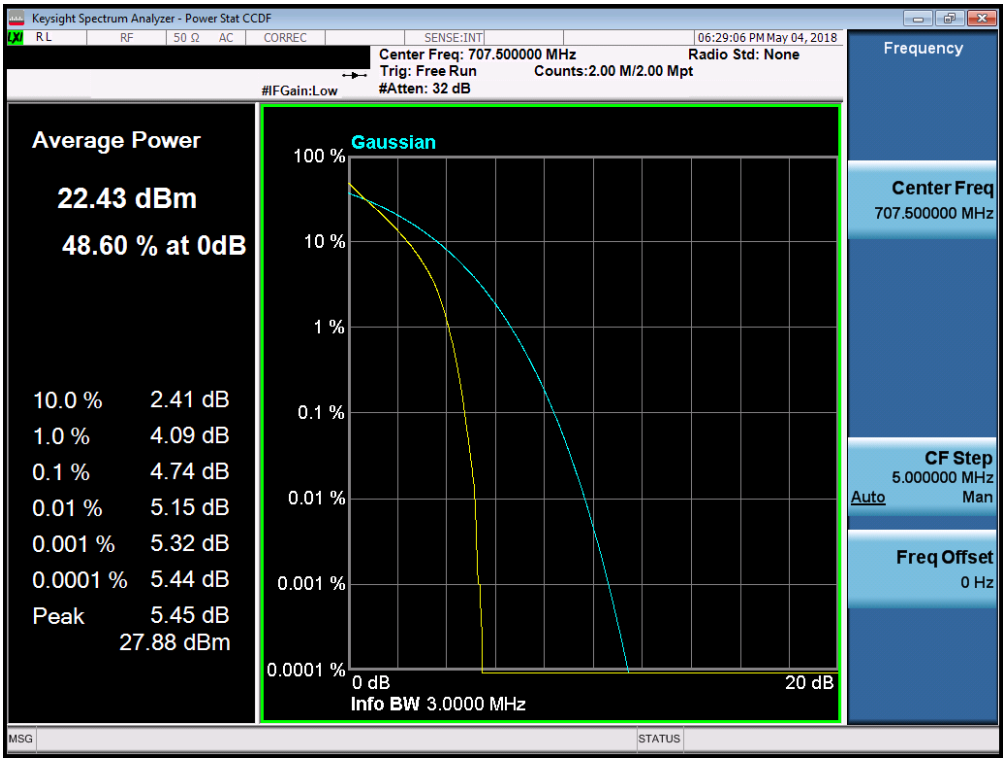
Plot 7-256. PAR Plot (Band 12 - 1.4MHz QPSK - Full RB Configuration)



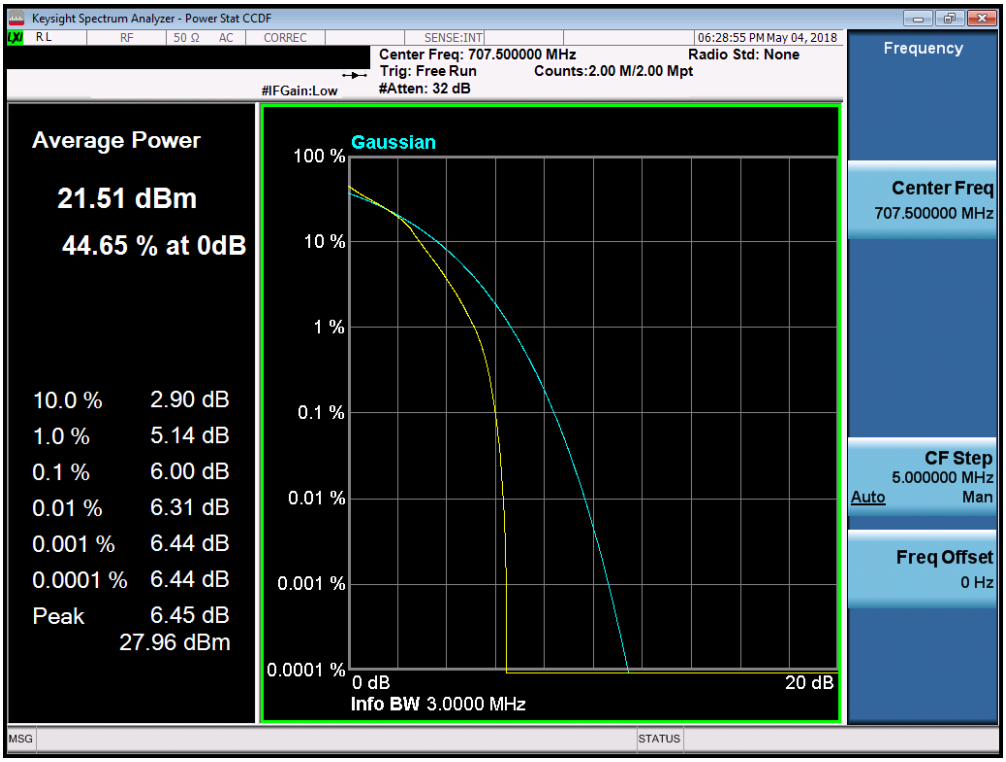
Plot 7-257. PAR Plot (Band 12 - 1.4MHz 16-QAM - Full RB Configuration)



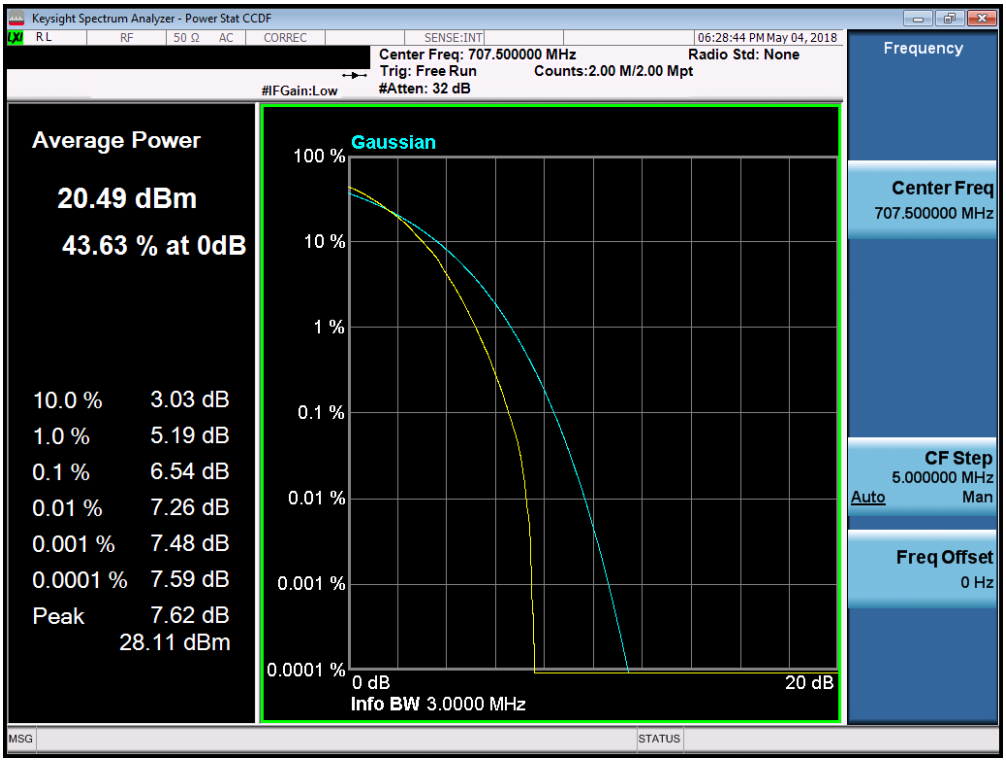
Plot 7-258. PAR Plot (Band 12 - 1.4MHz 64-QAM - Full RB Configuration)



Plot 7-259. PAR Plot (Band 12 – 3.0MHz QPSK - Full RB Configuration)

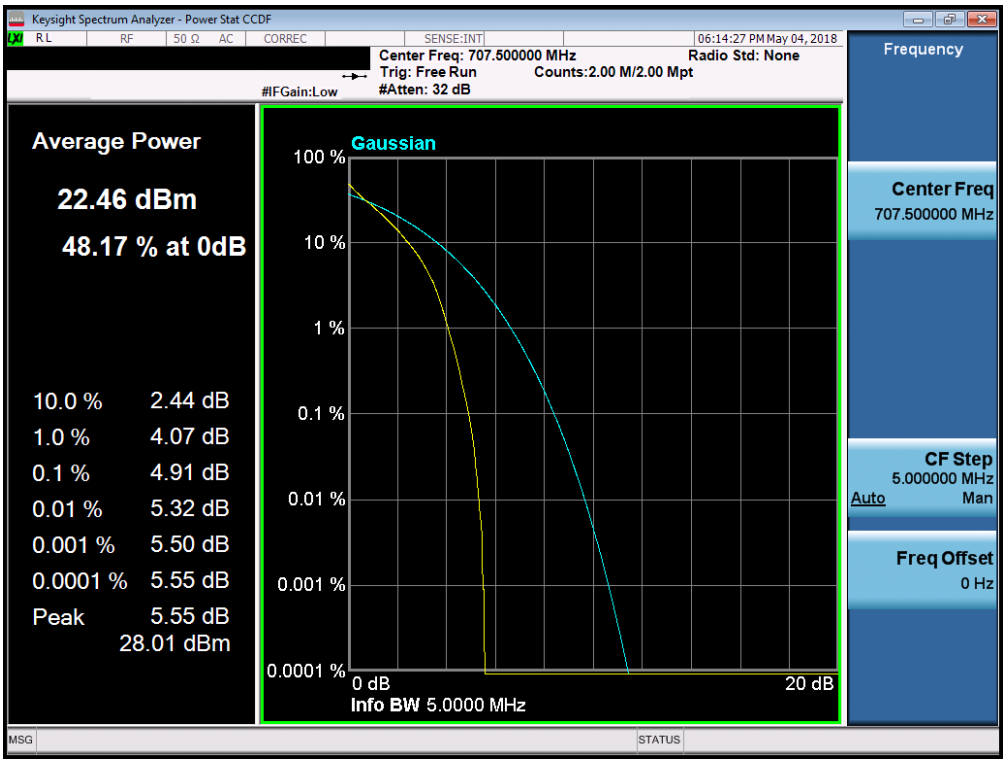


Plot 7-260. PAR Plot (Band 12 – 3.0MHz 16-QAM - Full RB Configuration)

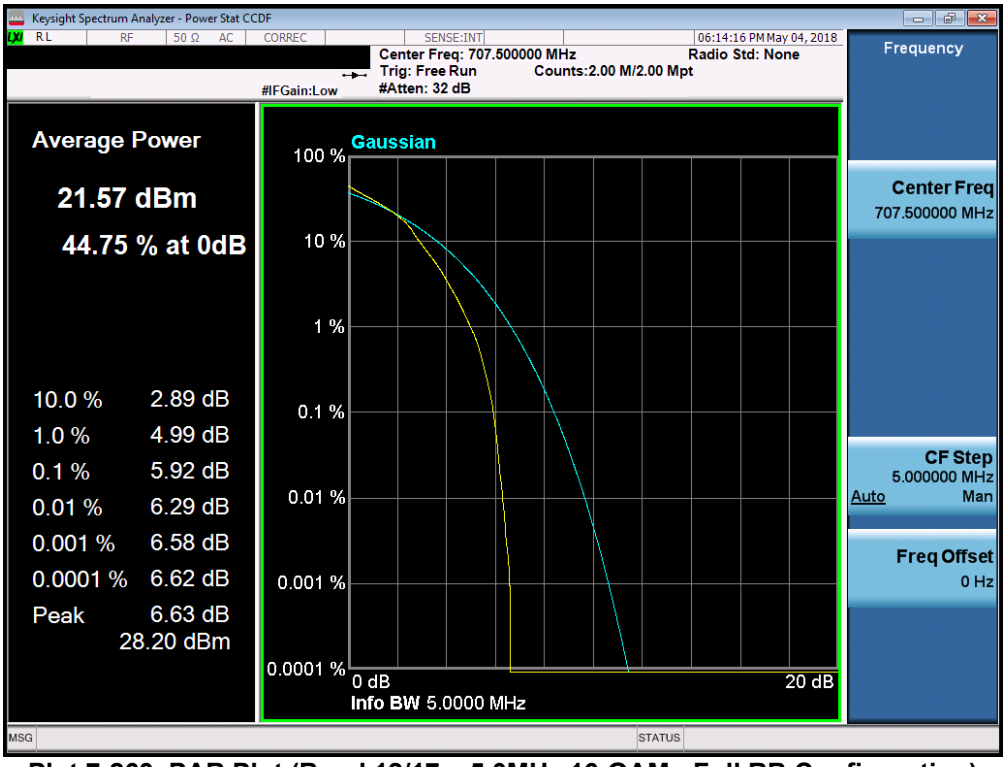


Plot 7-261. PAR Plot (Band 12 – 3.0MHz 64-QAM - Full RB Configuration)

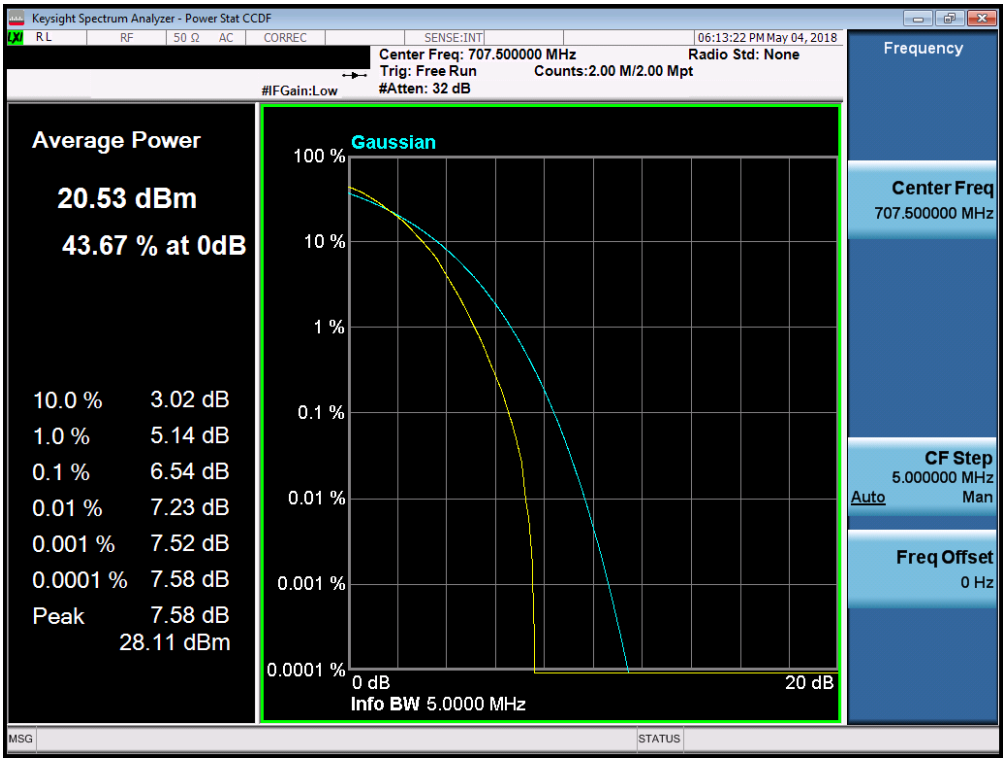
Band 12/17



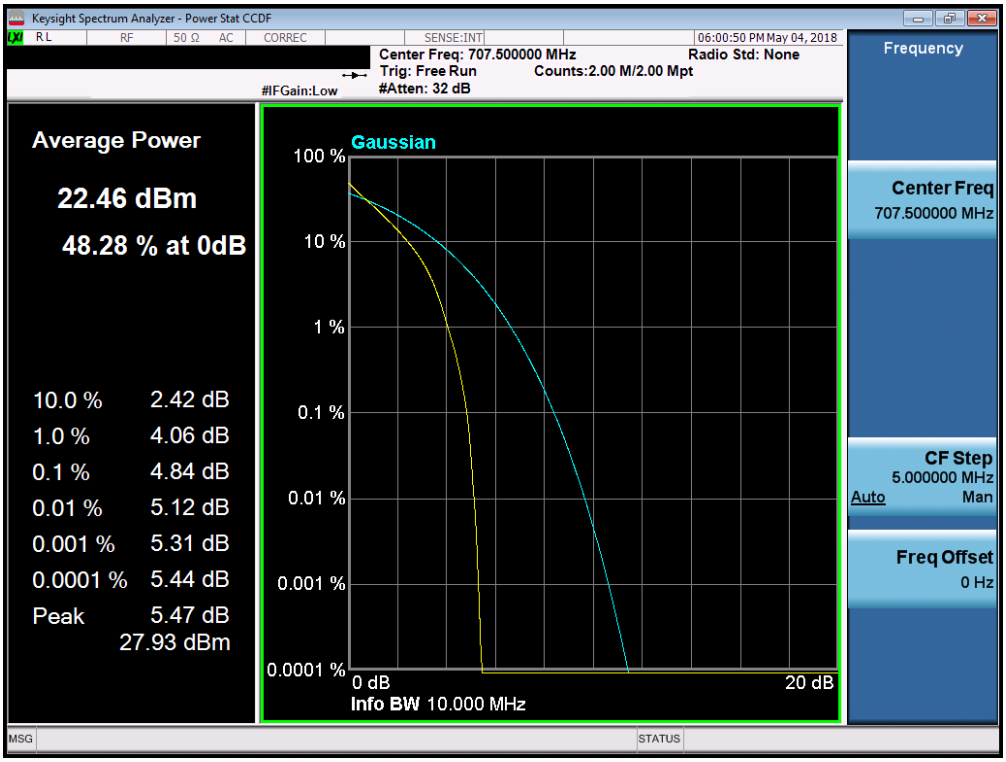
Plot 7-262. PAR Plot (Band 12/17 – 5.0MHz QPSK - Full RB Configuration)



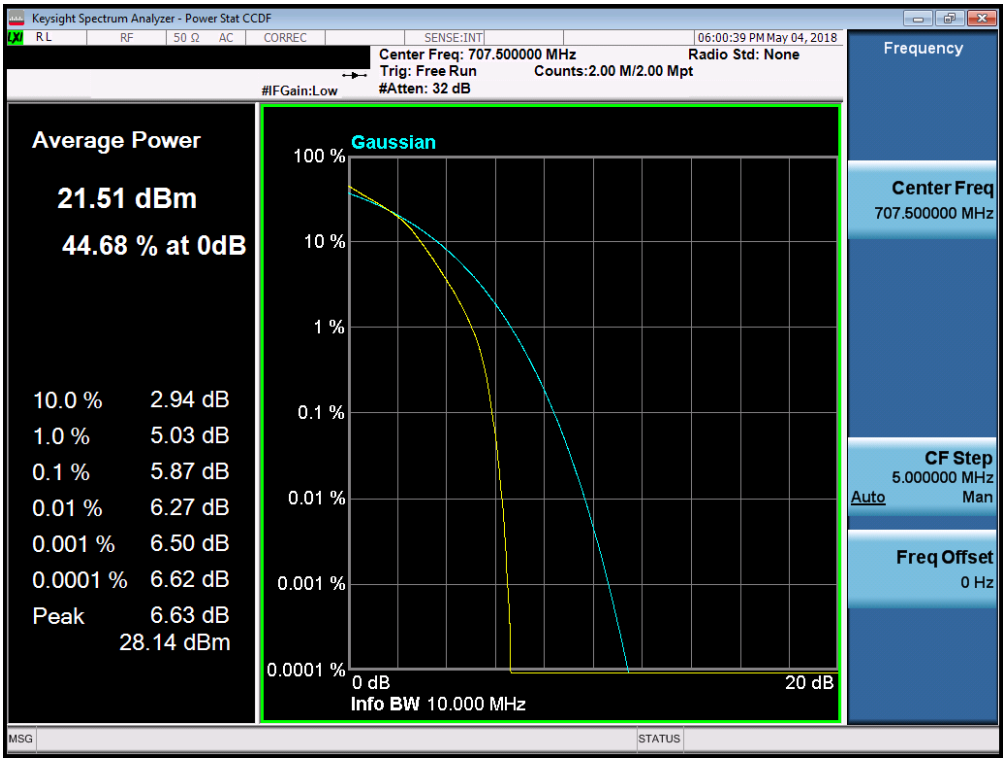
Plot 7-263. PAR Plot (Band 12/17 – 5.0MHz 16-QAM - Full RB Configuration)



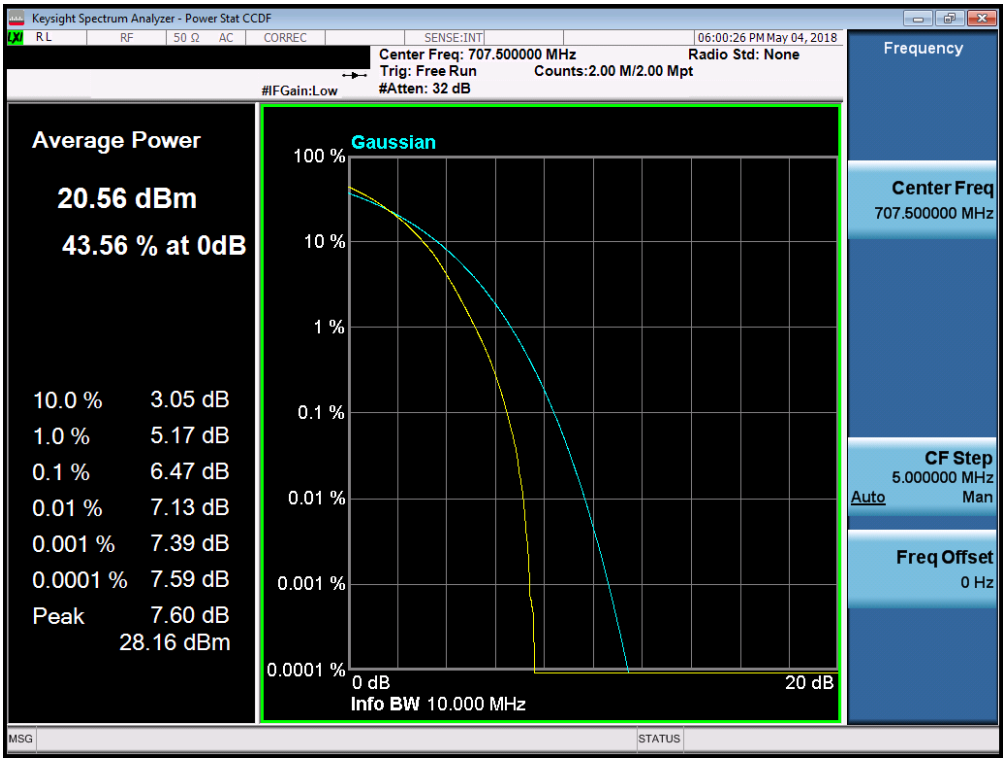
Plot 7-264. PAR Plot (Band 12/17 – 5.0MHz 64-QAM - Full RB Configuration)



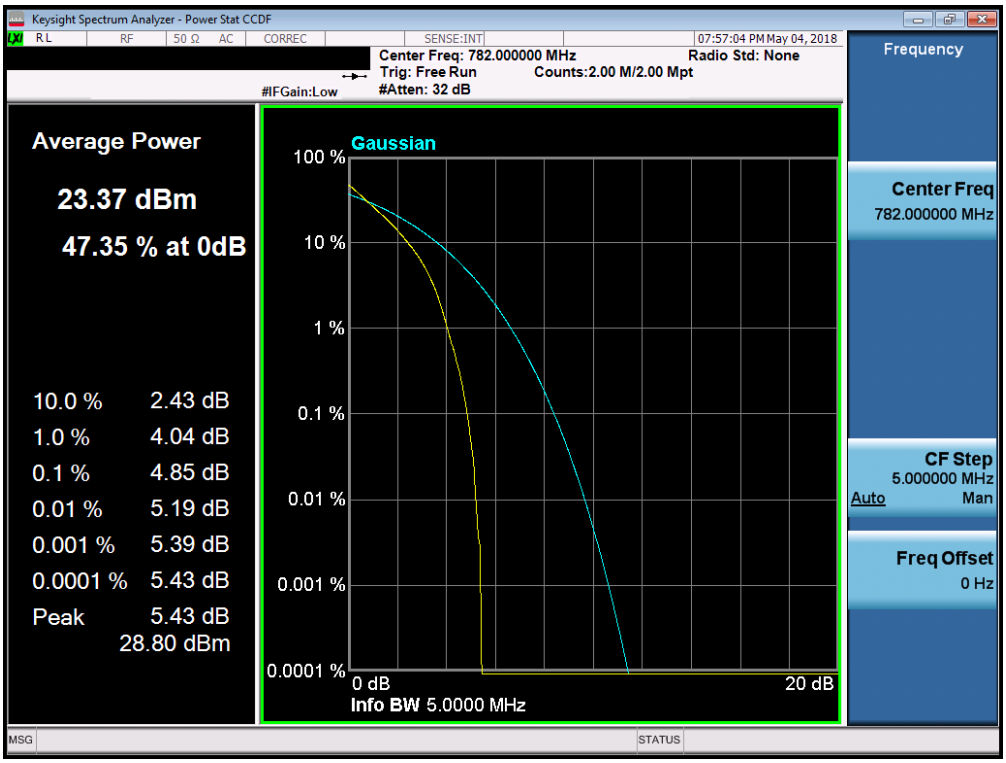
Plot 7-265. PAR Plot (Band 12/17 – 10.0MHz QPSK - Full RB Configuration)



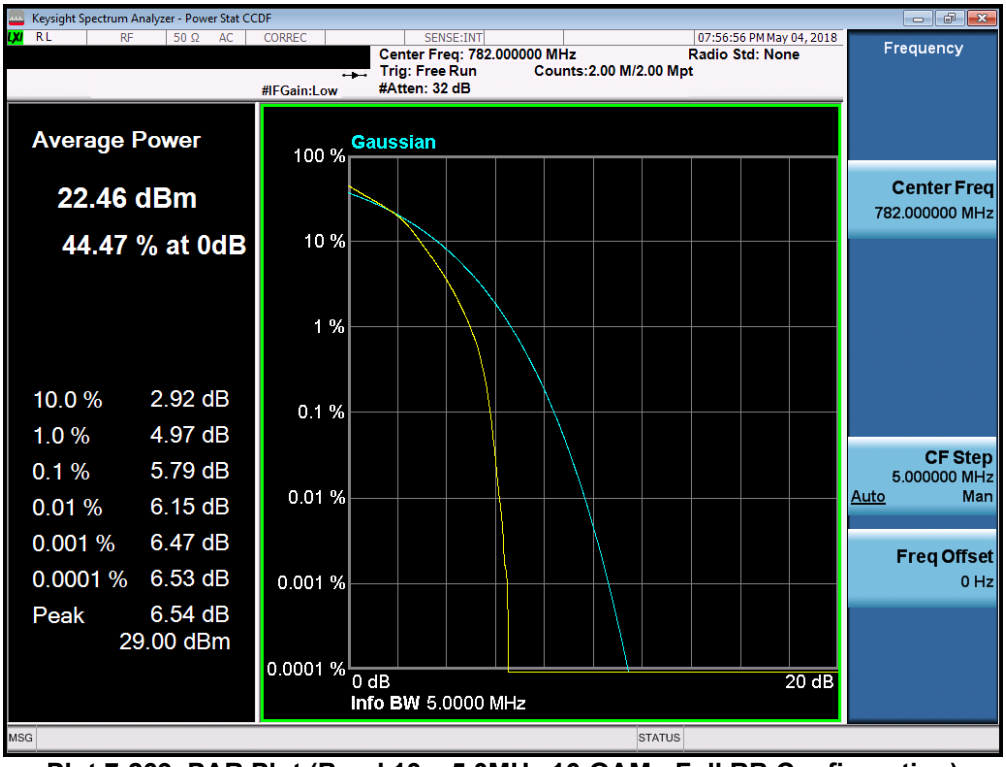
Plot 7-266. PAR Plot (Band 12/17 – 10.0MHz 16-QAM - Full RB Configuration)



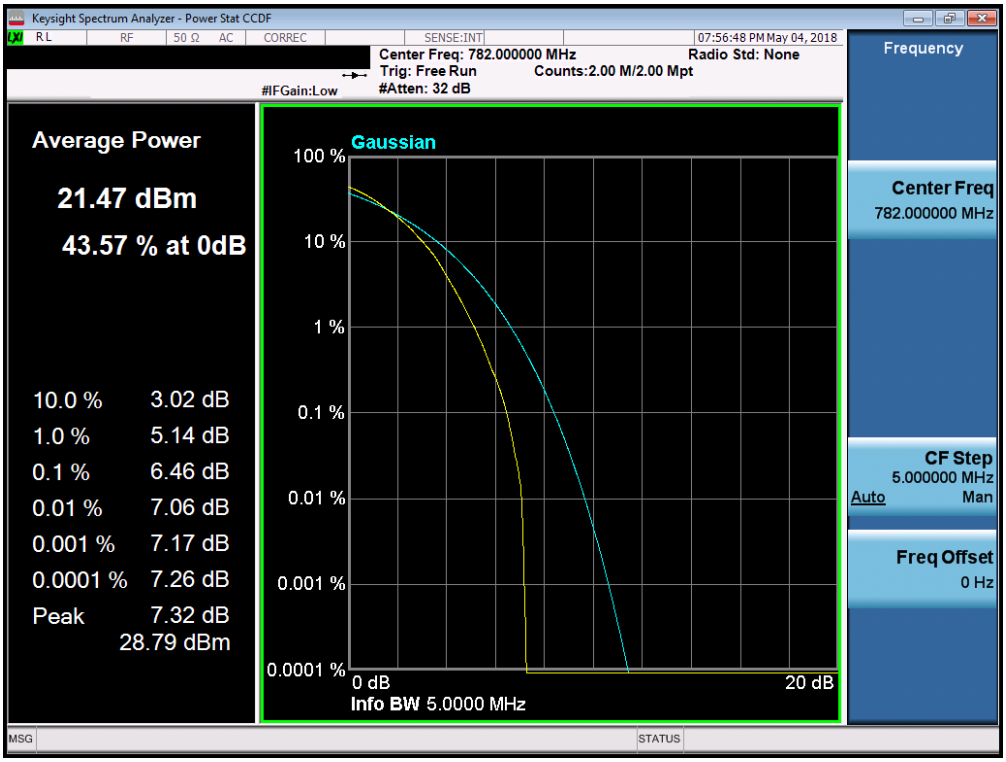
Plot 7-267. PAR Plot (Band 12/17 – 10.0MHz 64-QAM - Full RB Configuration)



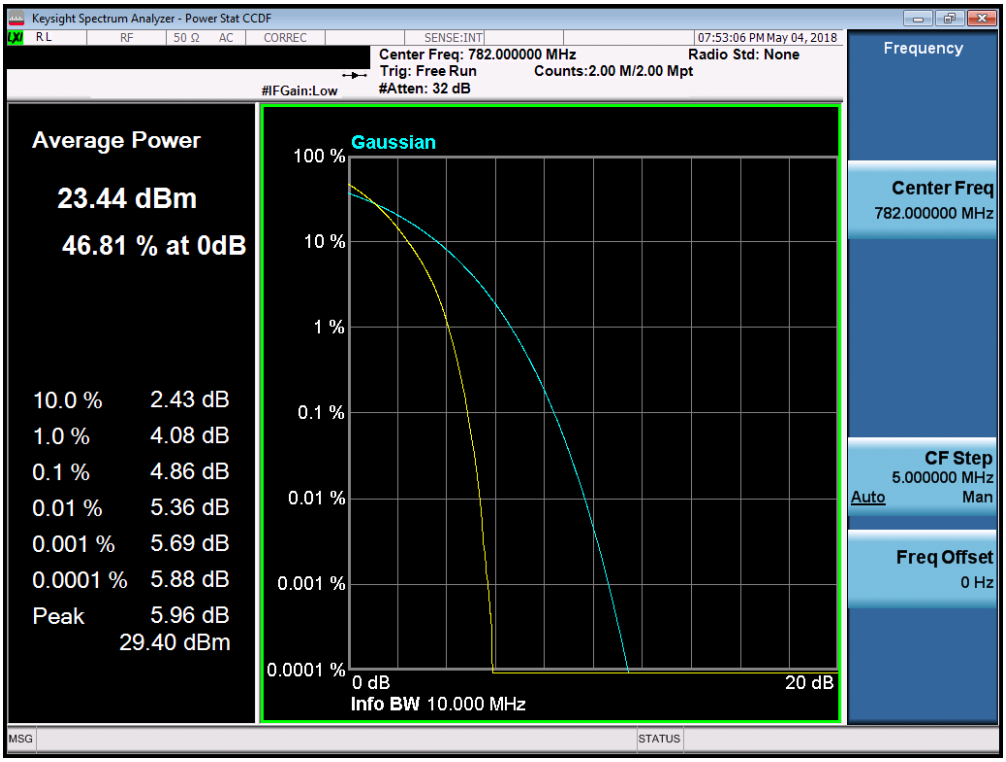
Plot 7-268. PAR Plot (Band 13 – 5.0MHz QPSK - Full RB Configuration)



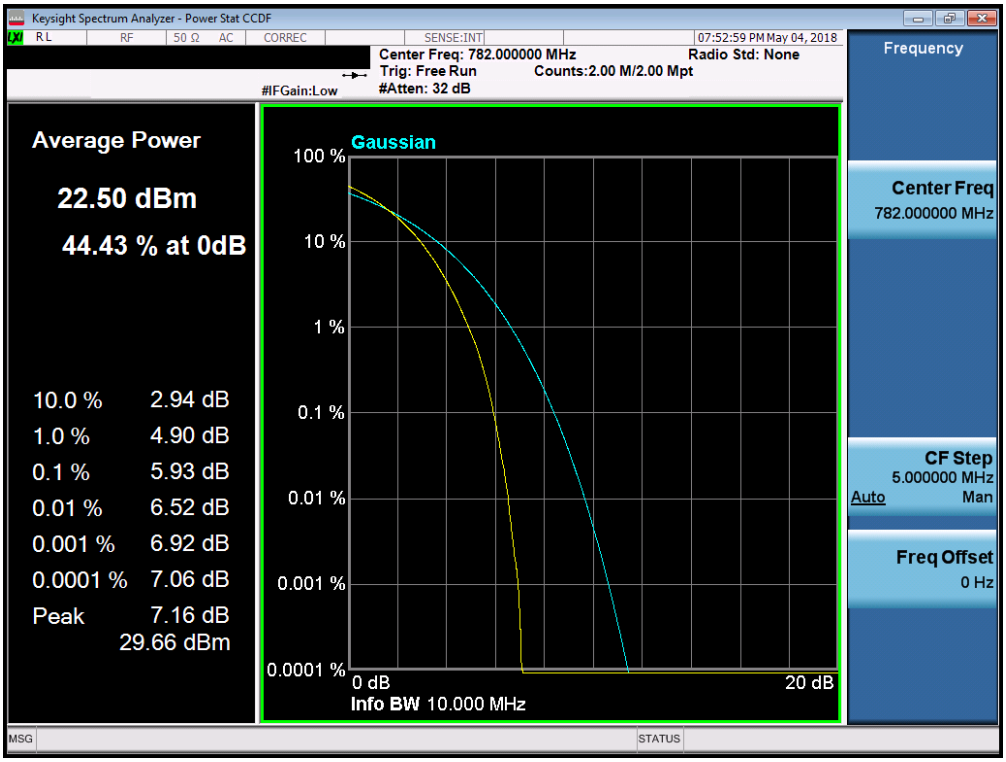
Plot 7-269. PAR Plot (Band 13 – 5.0MHz 16-QAM - Full RB Configuration)



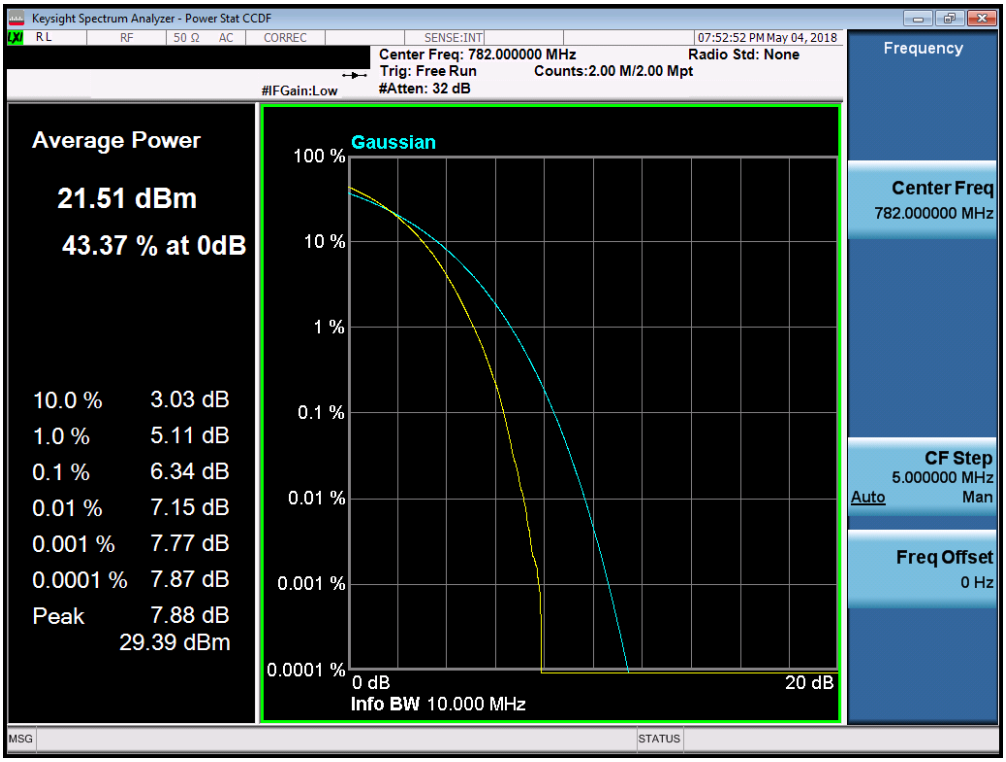
Plot 7-270. PAR Plot (Band 13 – 5.0MHz 64-QAM - Full RB Configuration)



Plot 7-271. PAR Plot (Band 13 – 10.0MHz QPSK - Full RB Configuration)

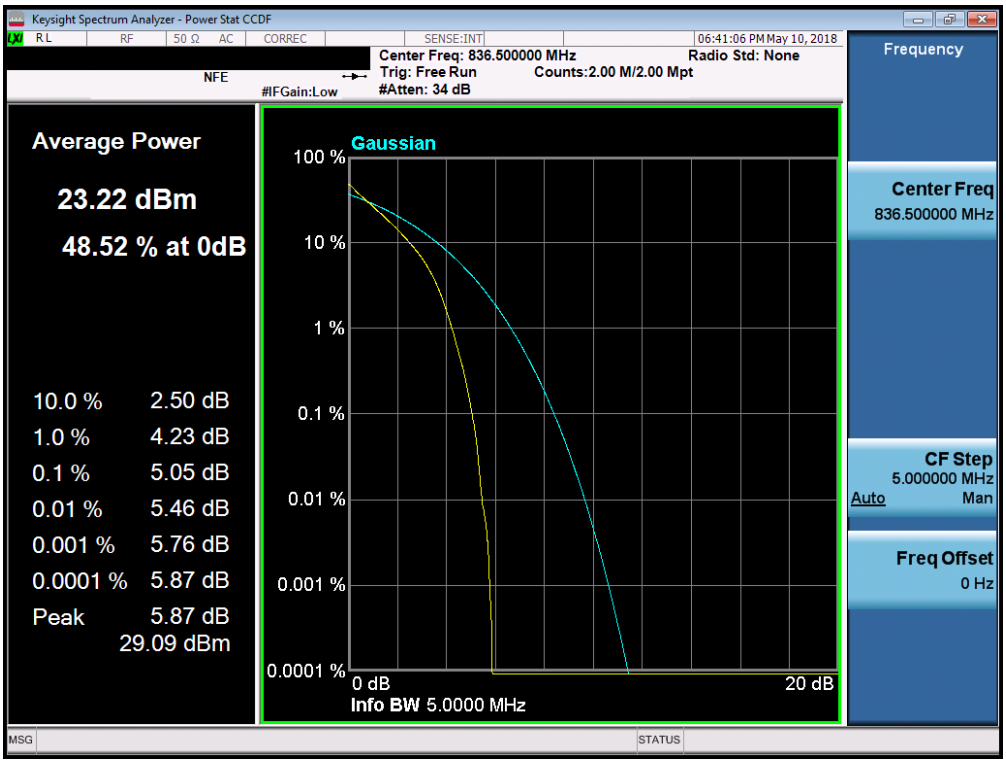


Plot 7-272. PAR Plot (Band 13 – 10.0MHz 16-QAM - Full RB Configuration)

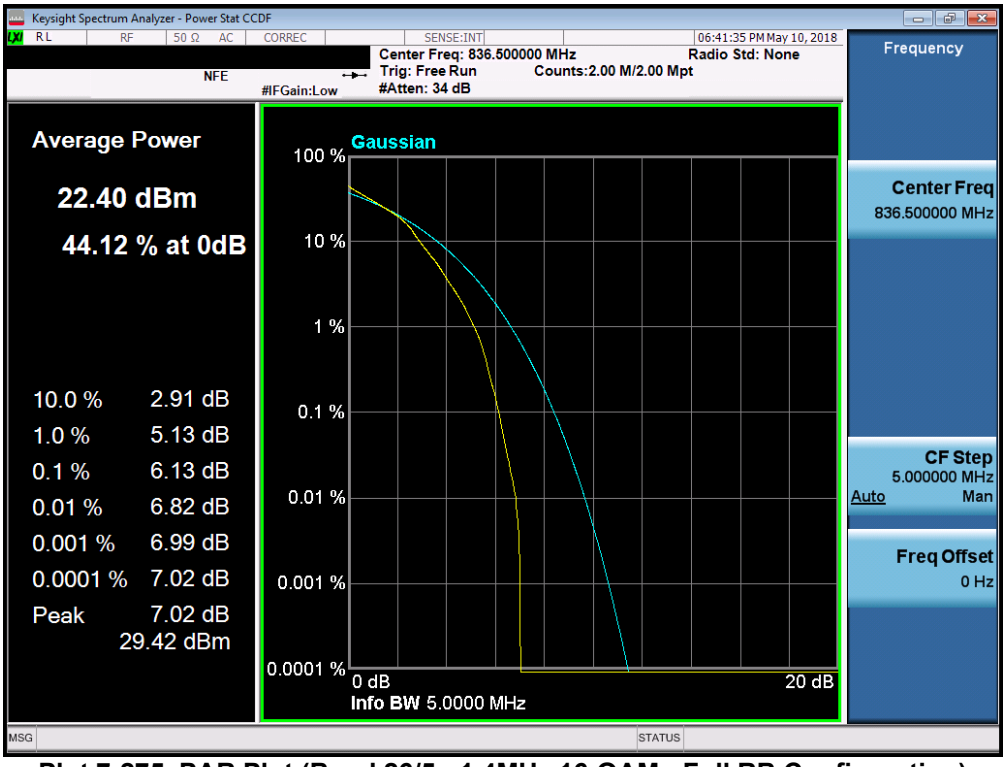


Plot 7-273. PAR Plot (Band 13 – 10.0MHz 64-QAM - Full RB Configuration)

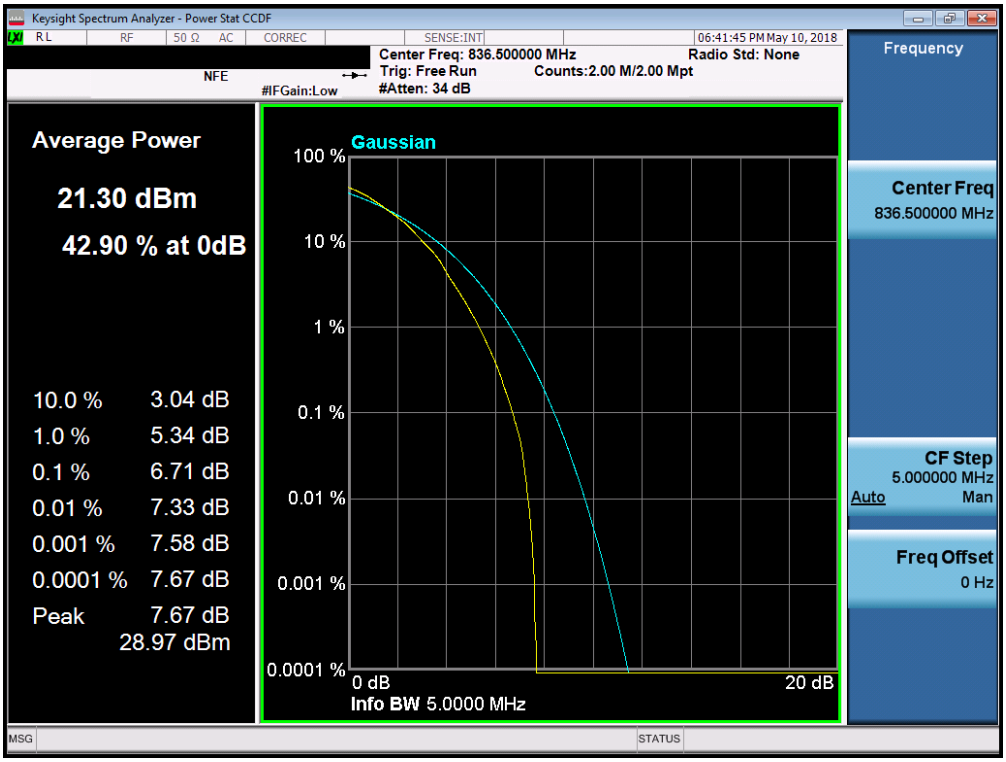
Band 26/5



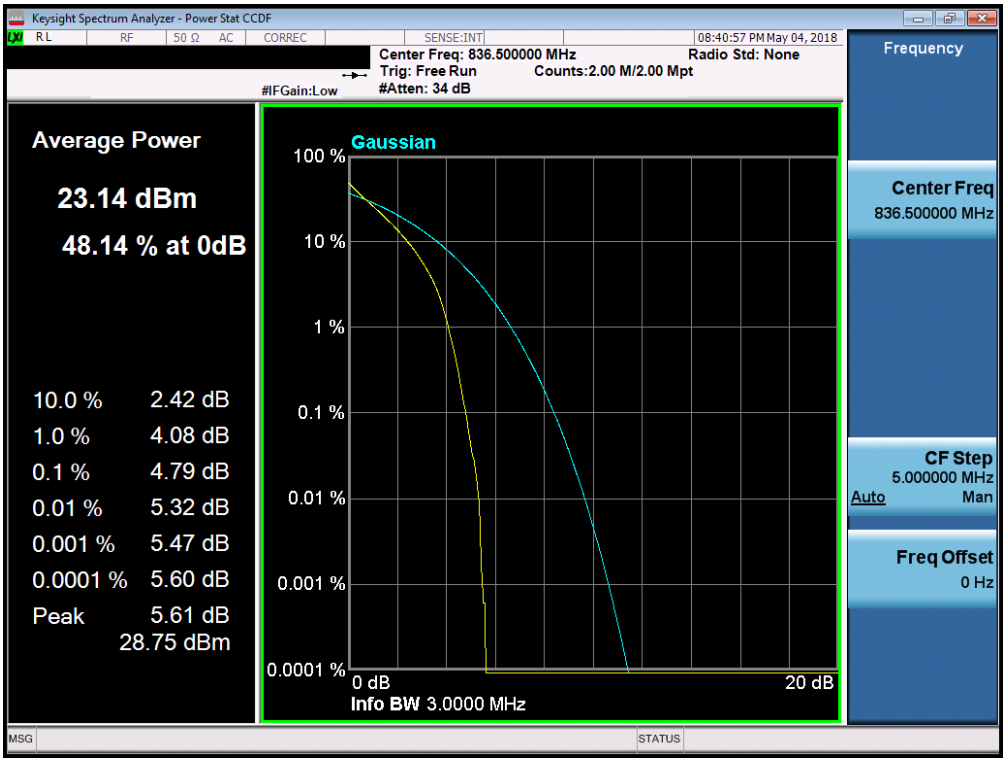
Plot 7-274. PAR Plot (Band 26/5 - 1.4MHz QPSK - Full RB Configuration)



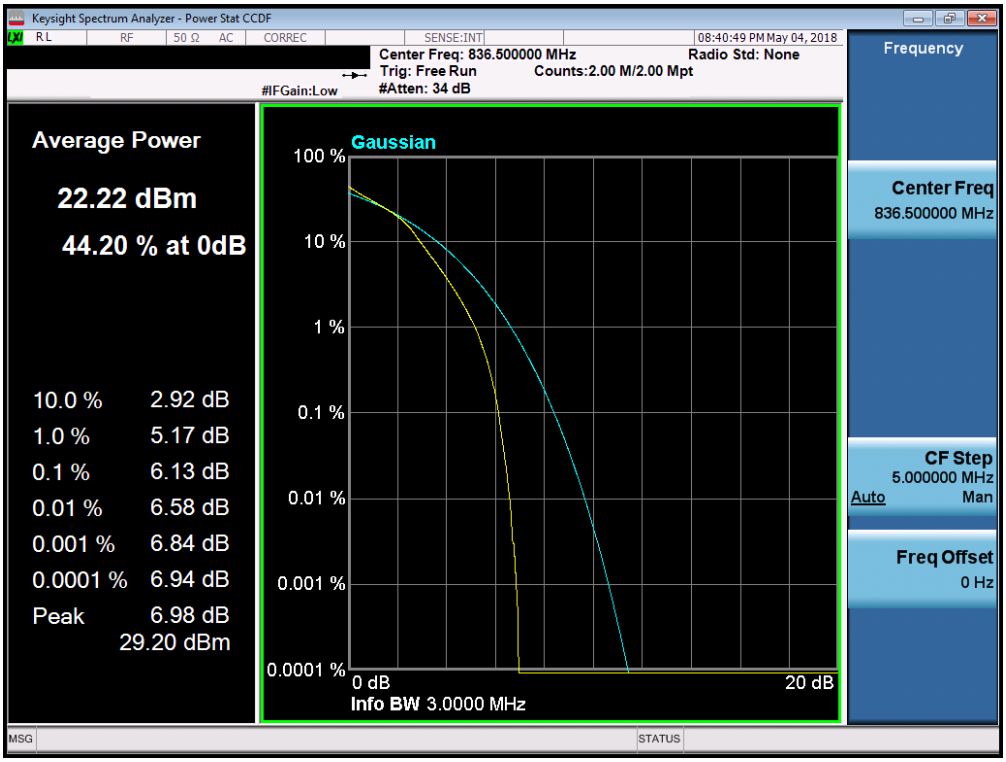
Plot 7-275. PAR Plot (Band 26/5 - 1.4MHz 16-QAM - Full RB Configuration)



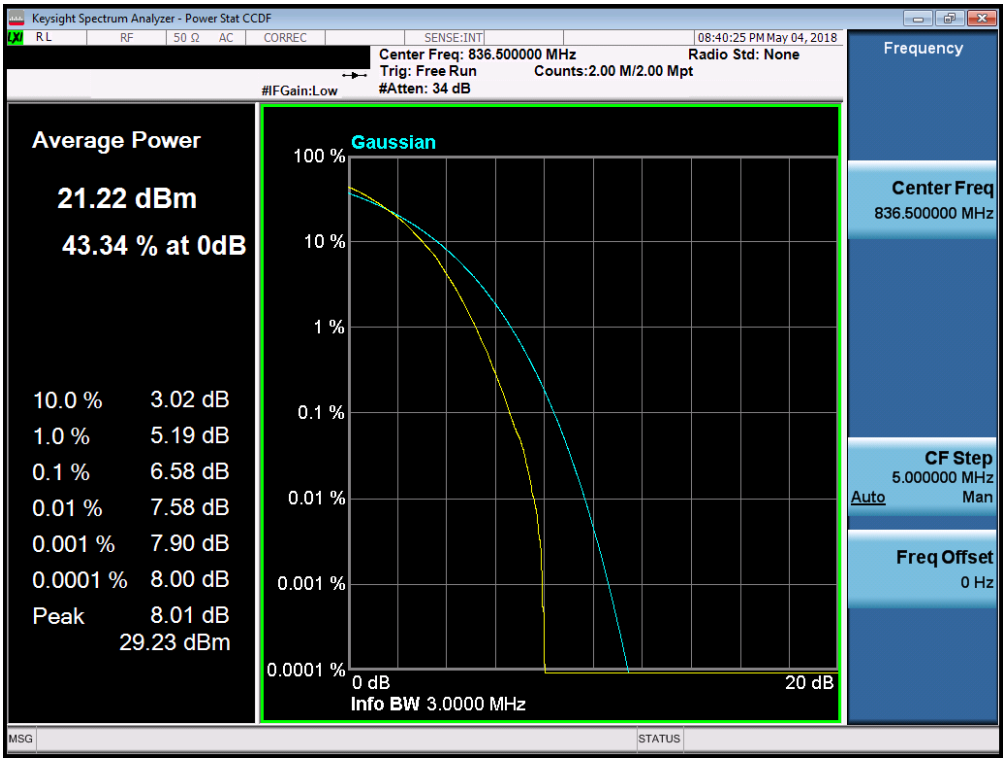
Plot 7-276. PAR Plot (Band 26/5 - 1.4MHz 64-QAM - Full RB Configuration)



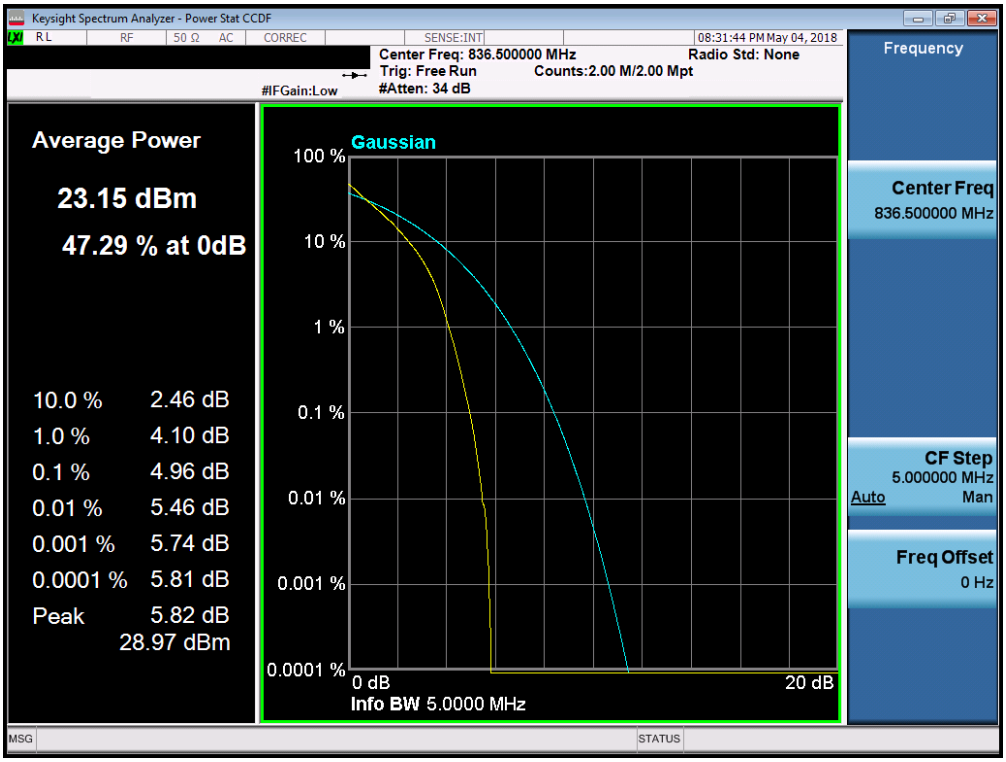
Plot 7-277. PAR Plot (Band 26/5 – 3.0MHz QPSK - Full RB Configuration)



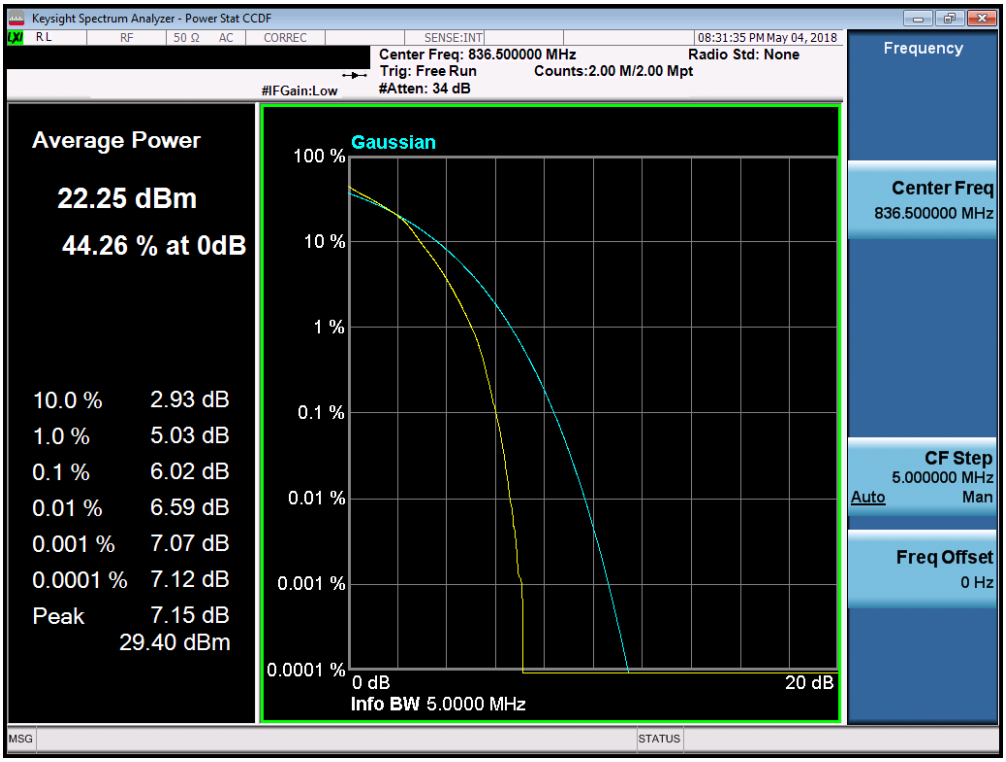
Plot 7-278. PAR Plot (Band 26/5 – 3.0MHz 16-QAM - Full RB Configuration)



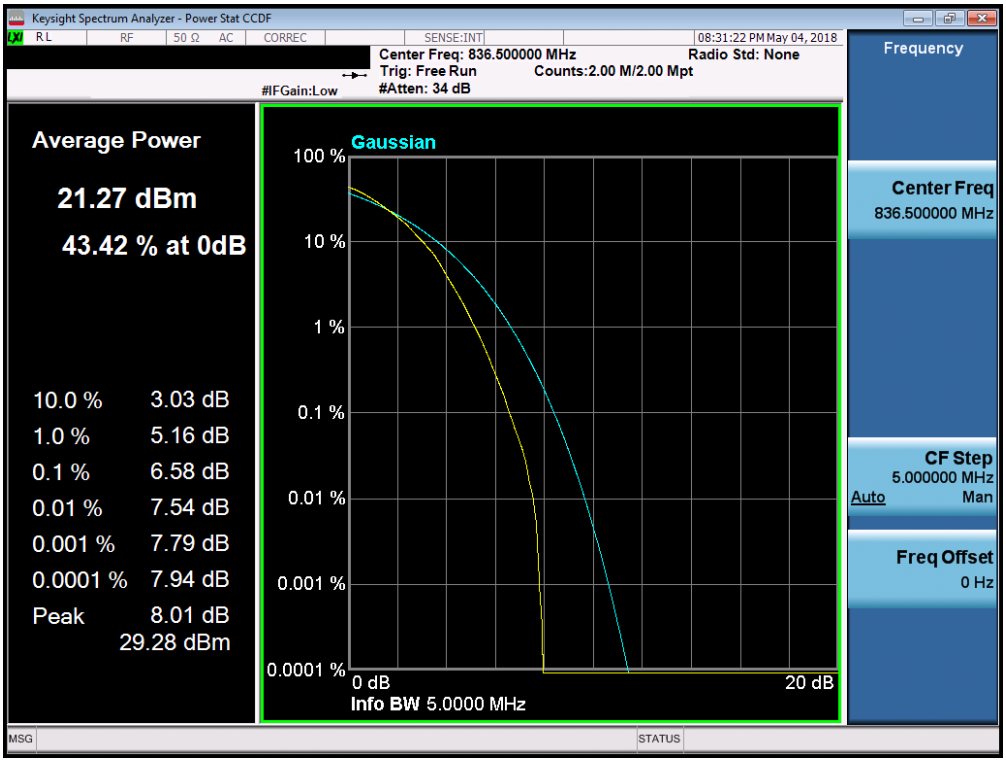
Plot 7-279. PAR Plot (Band 26/5 – 3.0MHz 64-QAM - Full RB Configuration)



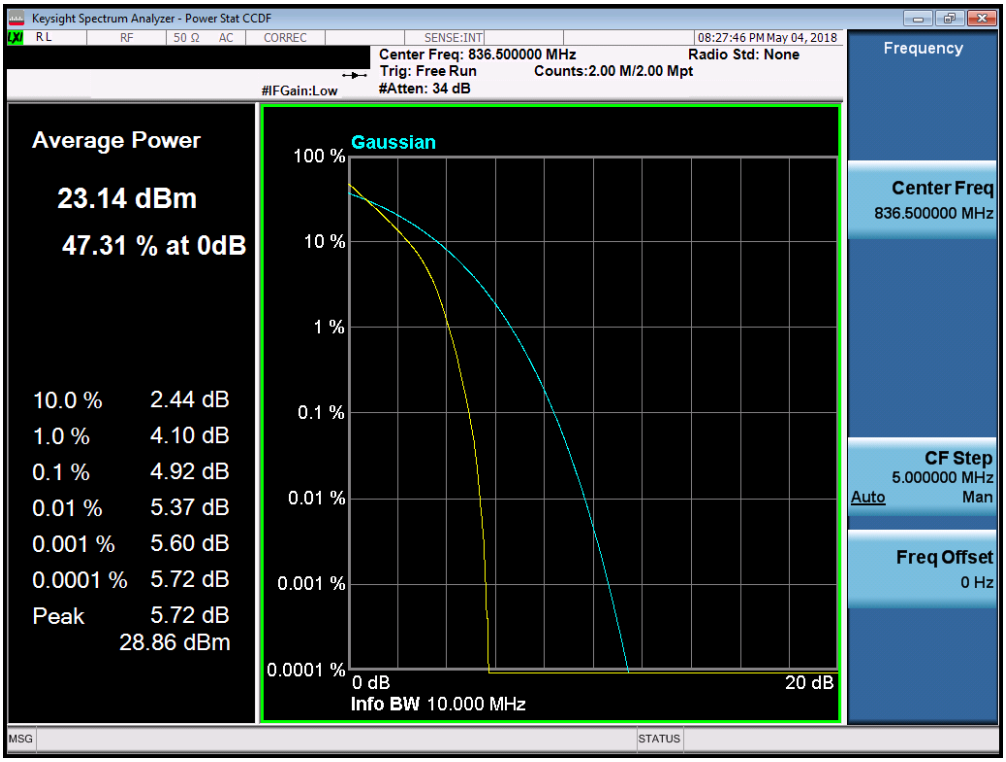
Plot 7-280. PAR Plot (Band 26/5 – 5.0MHz QPSK - Full RB Configuration)



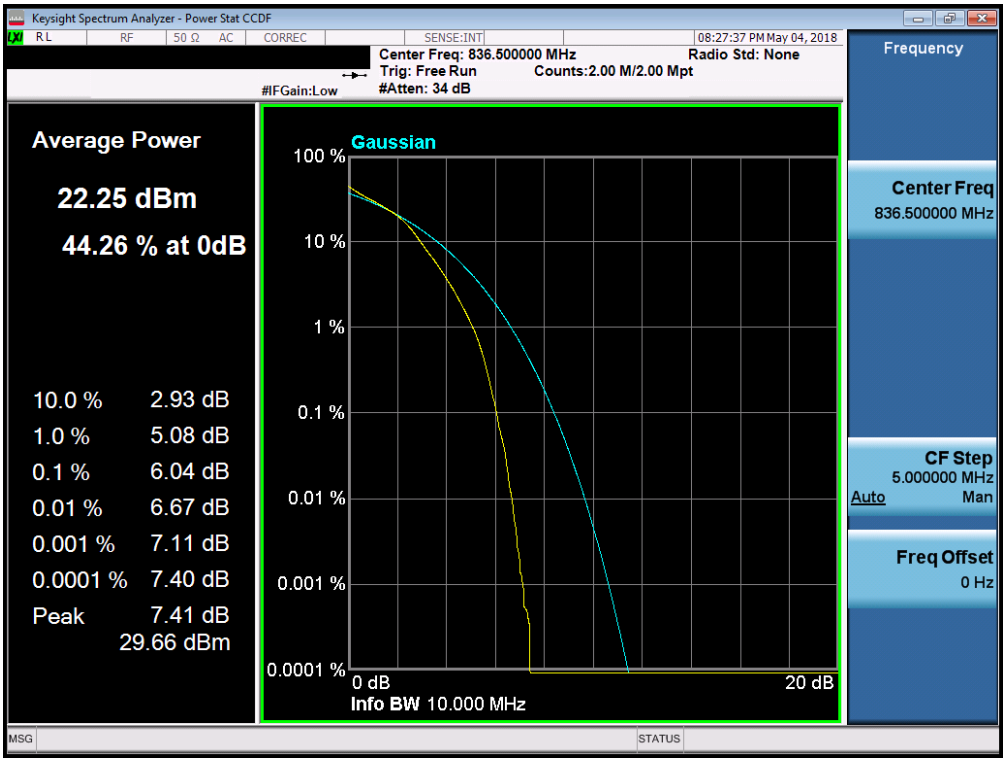
Plot 7-281. PAR Plot (Band 26/5 – 5.0MHz 16-QAM - Full RB Configuration)



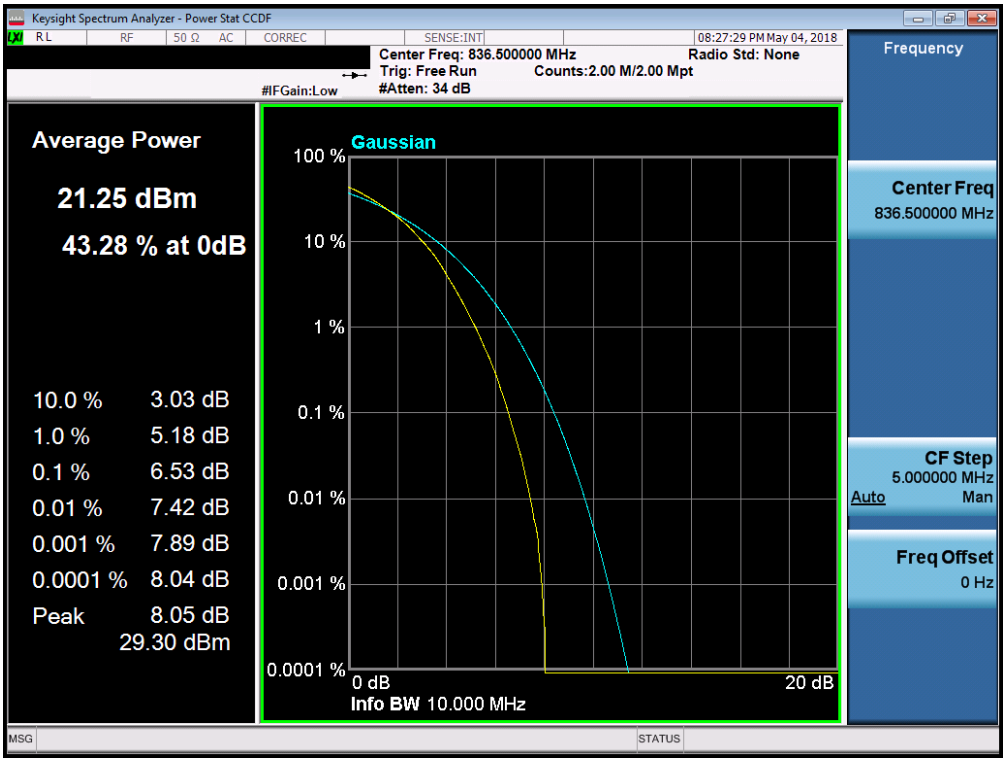
Plot 7-282. PAR Plot (Band 26/5 – 5.0MHz 64-QAM - Full RB Configuration)



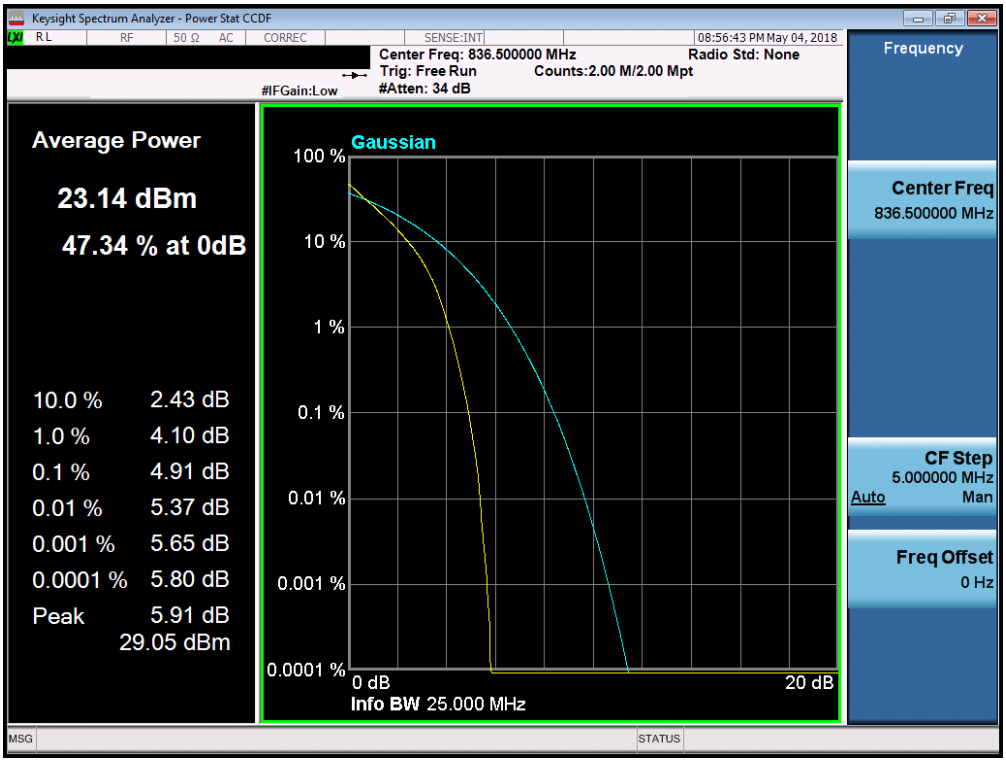
Plot 7-283. PAR Plot (Band 26/5 – 10.0MHz QPSK - Full RB Configuration)



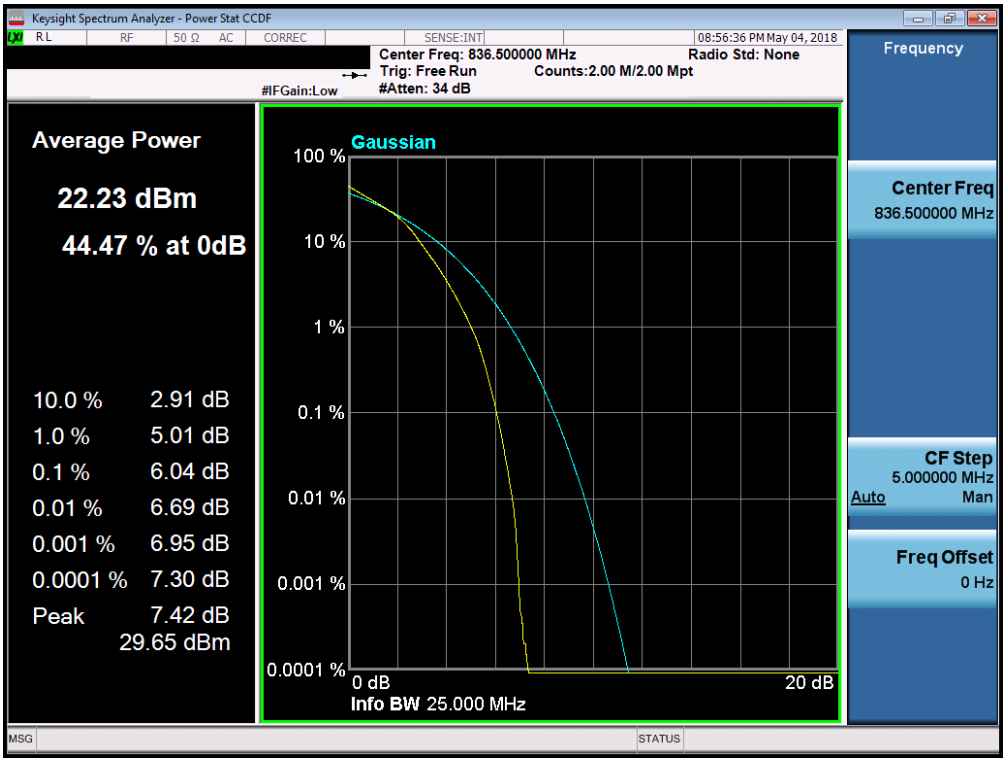
Plot 7-284. PAR Plot (Band 26/5 – 10.0MHz 16-QAM - Full RB Configuration)



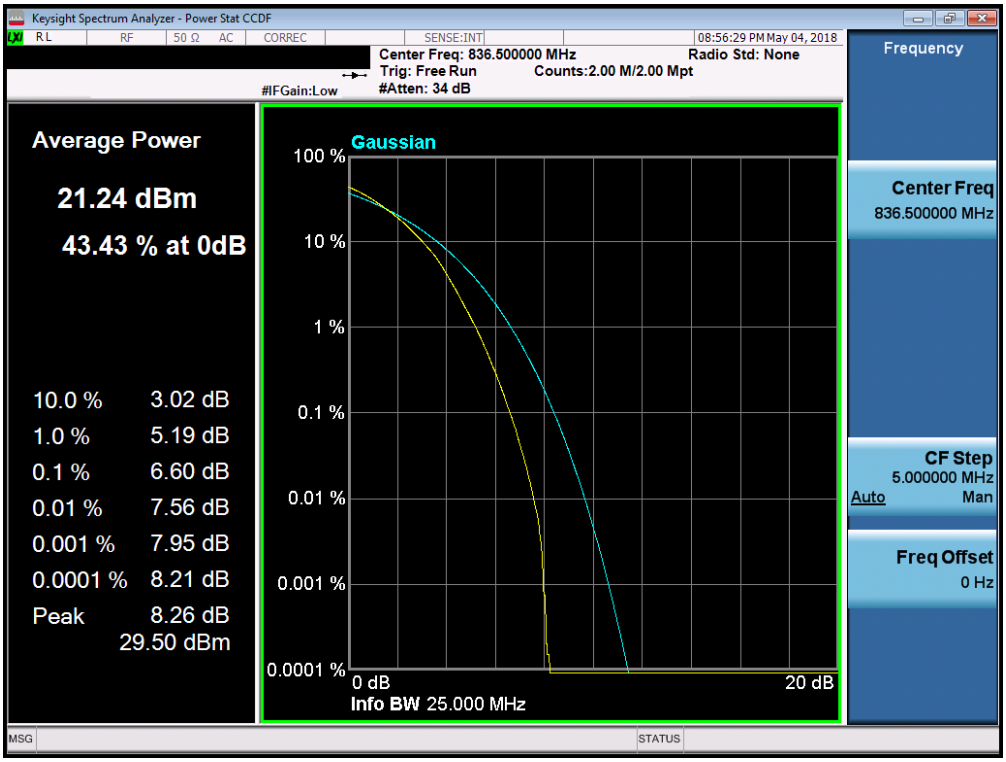
Plot 7-285. PAR Plot (Band 26/5 – 10.0MHz 64-QAM - Full RB Configuration)



Plot 7-286. PAR Plot (Band 26 – 15.0MHz QPSK - Full RB Configuration)

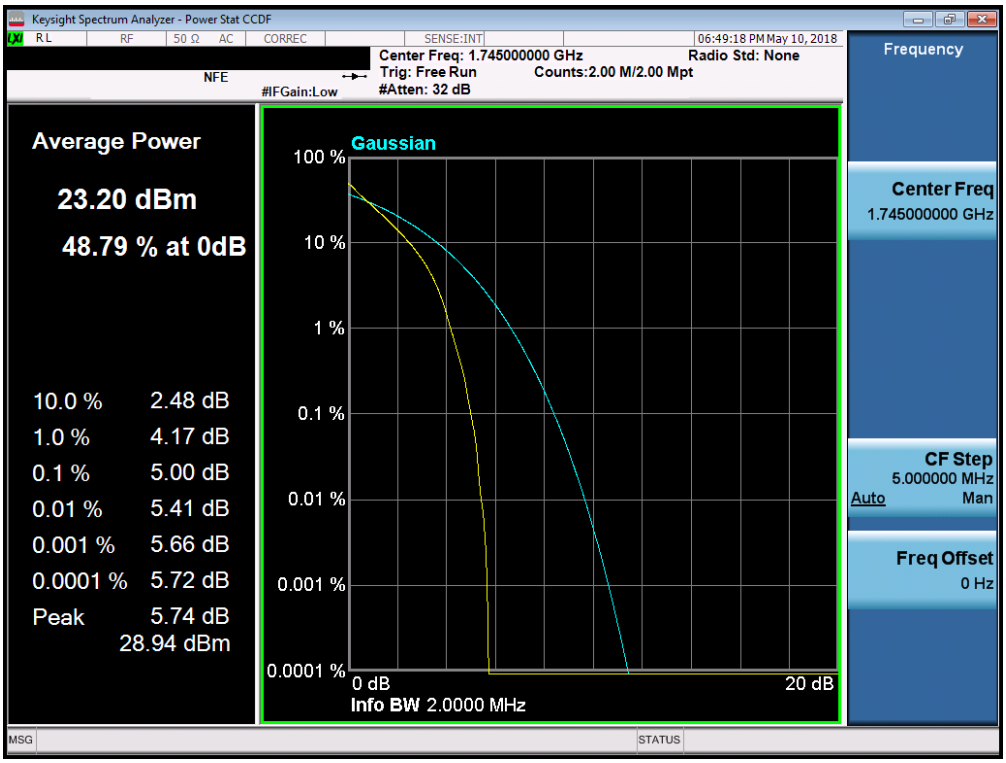


Plot 7-287. PAR Plot (Band 26 – 15.0MHz 16-QAM - Full RB Configuration)

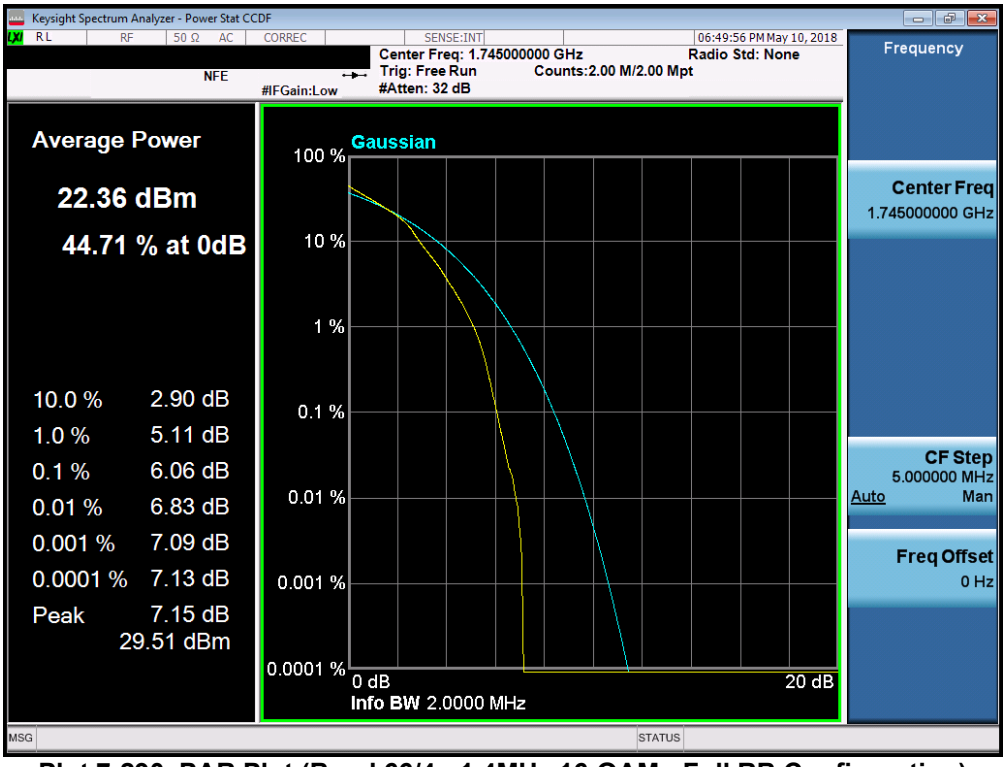


Plot 7-288. PAR Plot (Band 26 – 15.0MHz 64-QAM - Full RB Configuration)

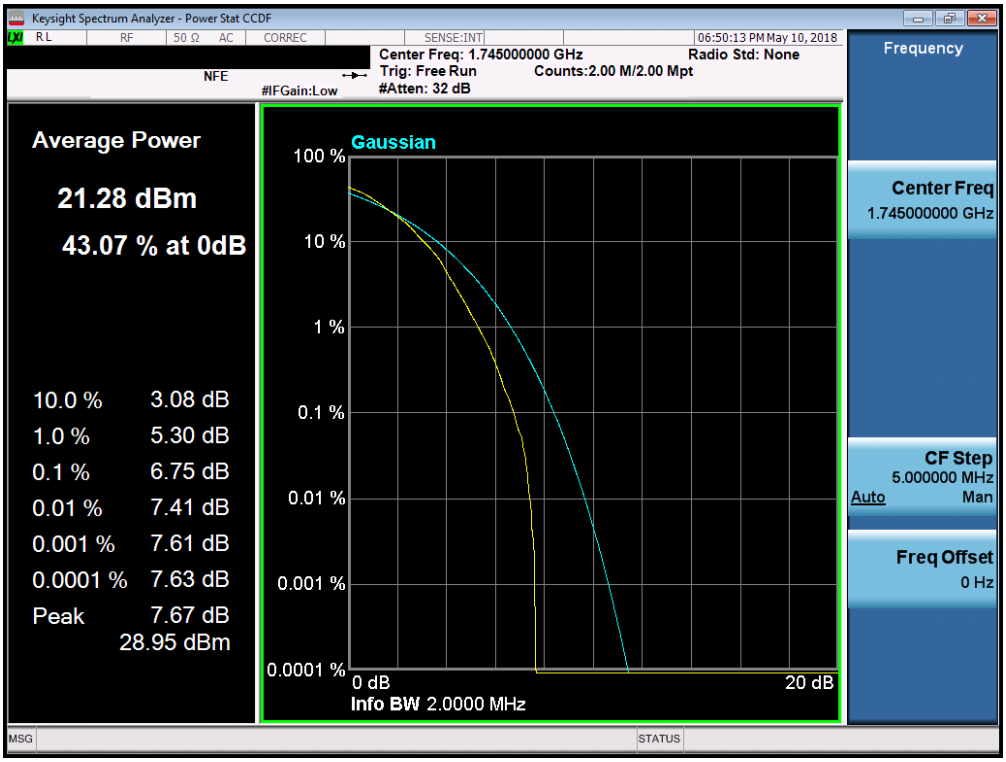
Band 66/4



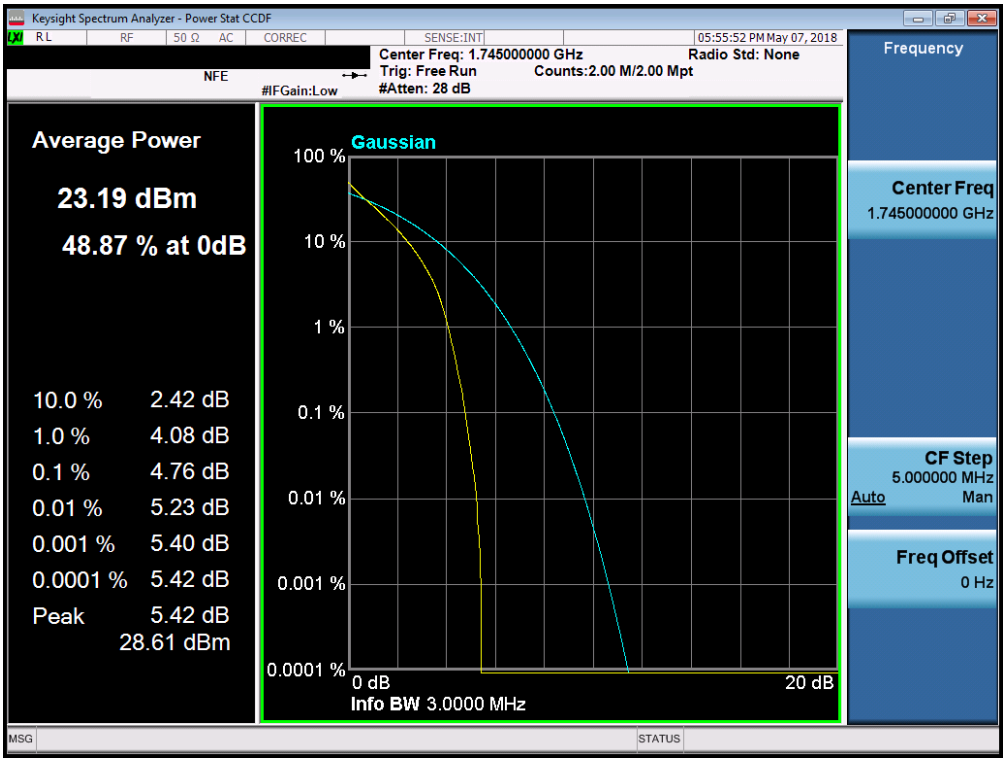
Plot 7-289. PAR Plot (Band 66/4 - 1.4MHz QPSK - Full RB Configuration)



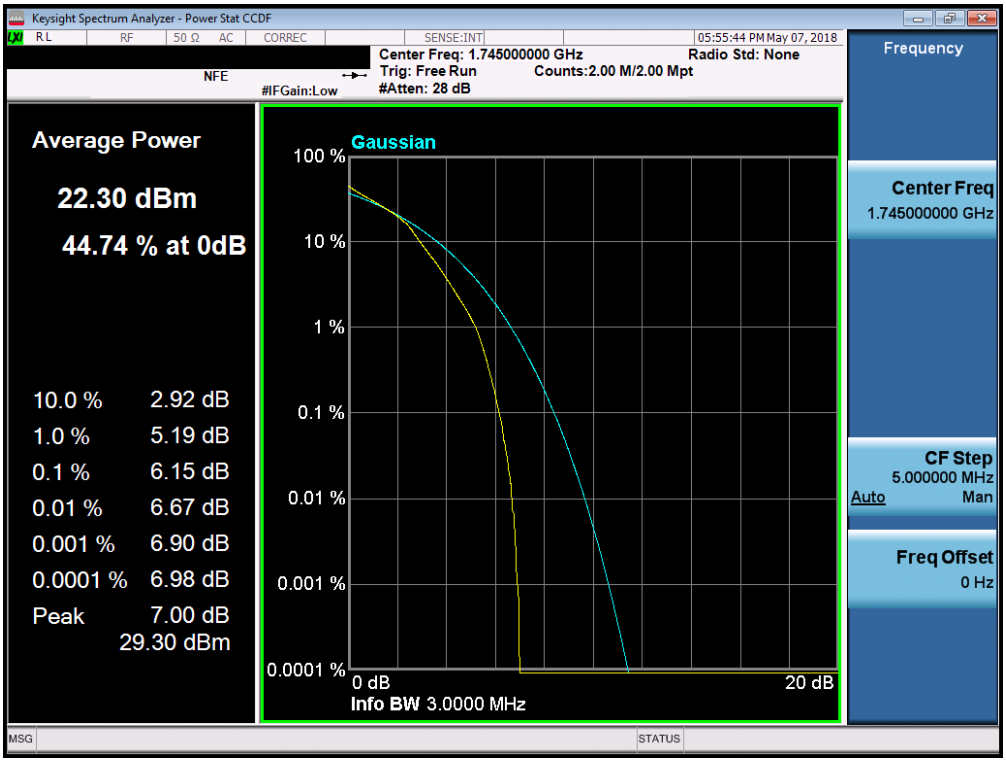
Plot 7-290. PAR Plot (Band 66/4 - 1.4MHz 16-QAM - Full RB Configuration)



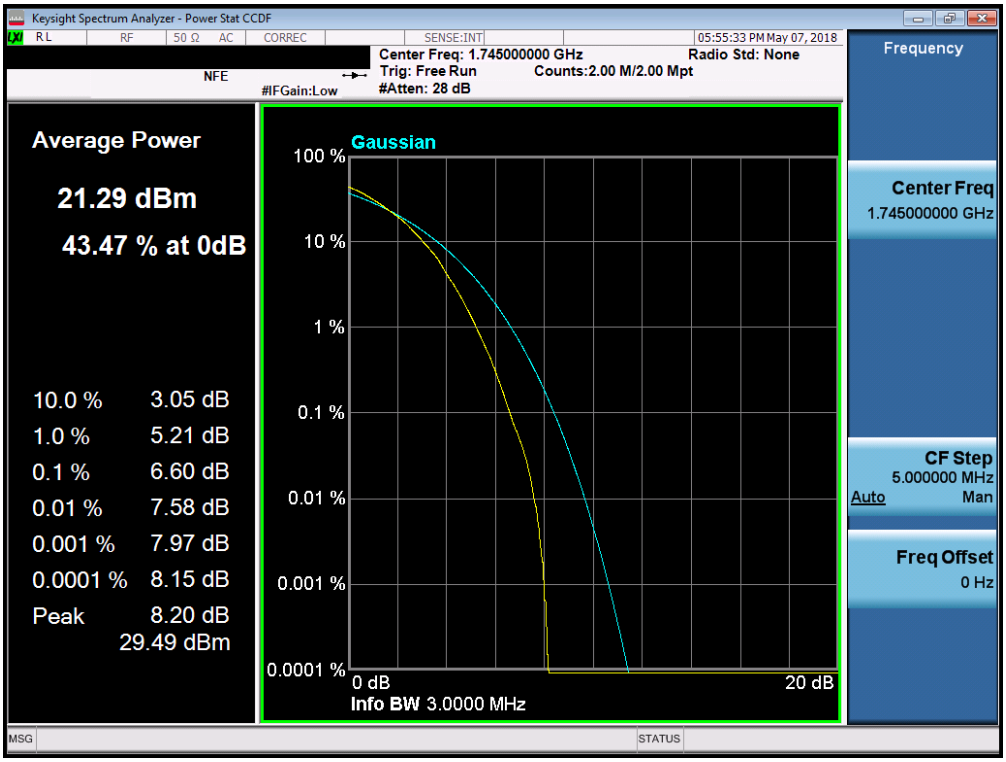
Plot 7-291. PAR Plot (Band 66/4 - 1.4MHz 64-QAM - Full RB Configuration)



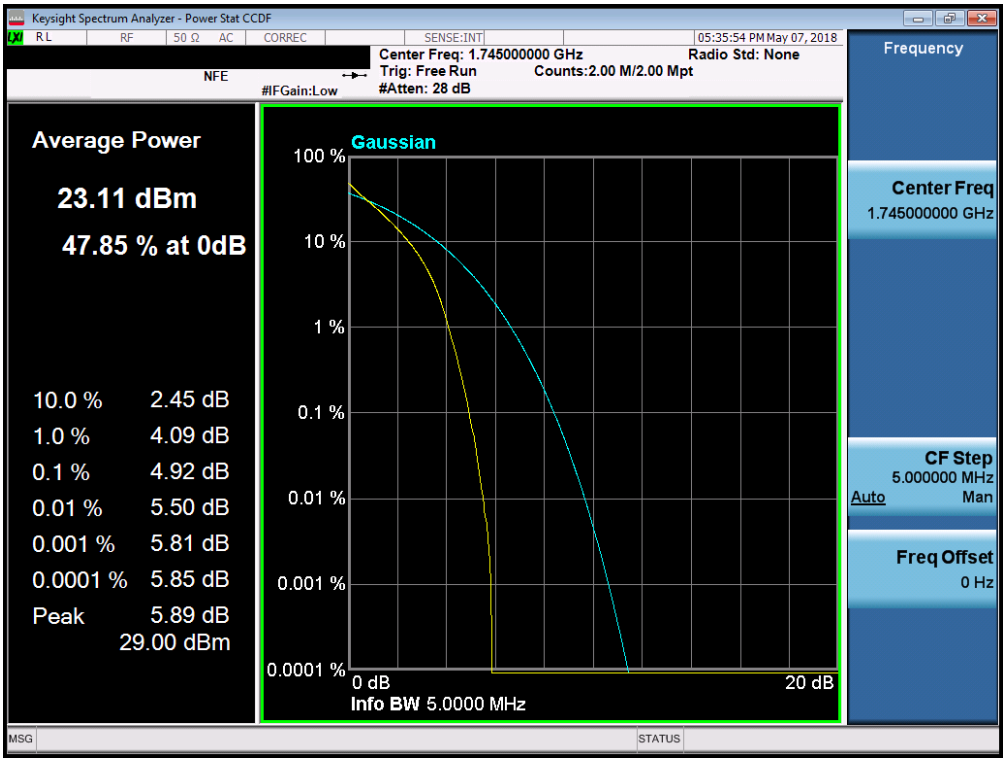
Plot 7-292. PAR Plot (Band 66/4 – 3.0MHz QPSK - Full RB Configuration)



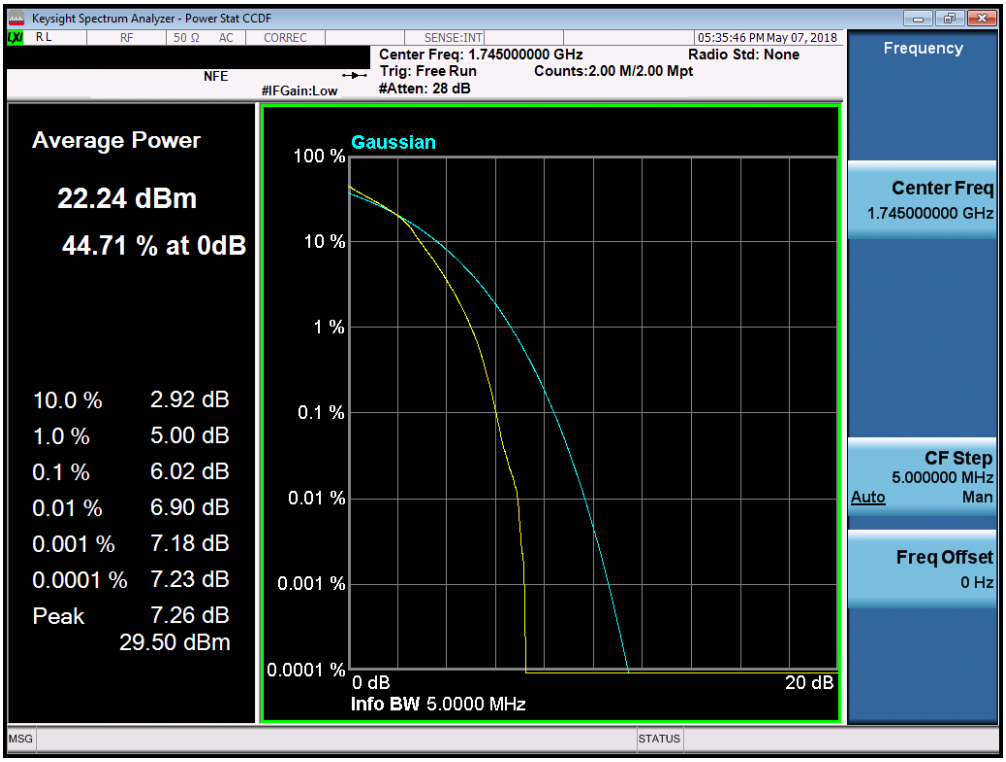
Plot 7-293. PAR Plot (Band 66/4 – 3.0MHz 16-QAM - Full RB Configuration)



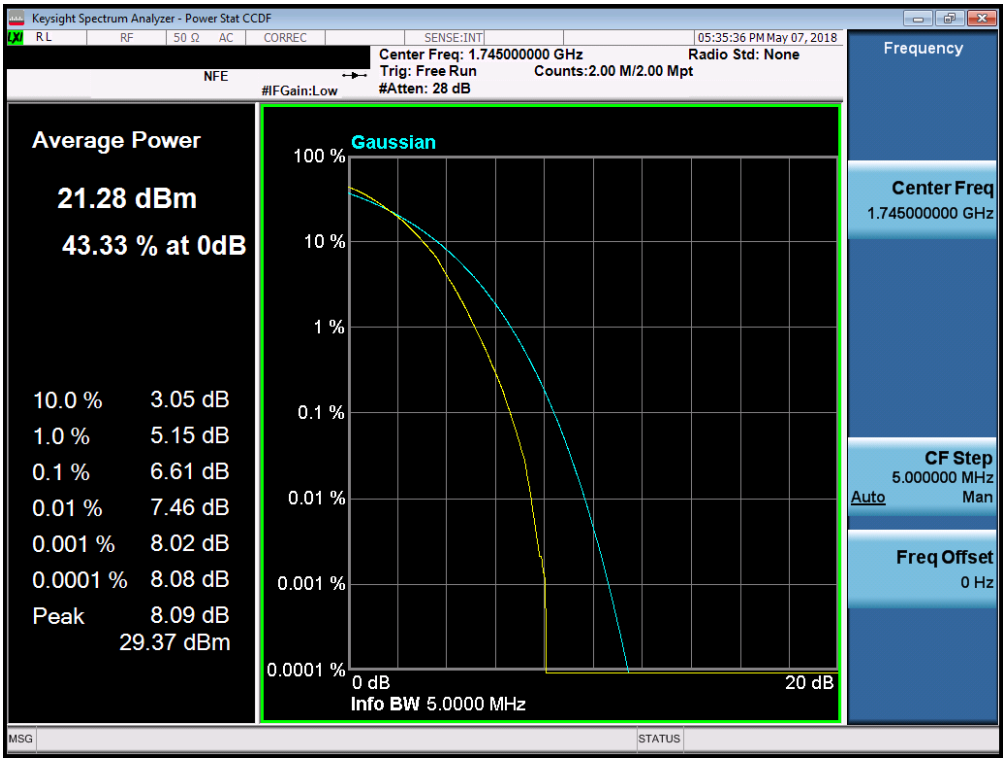
Plot 7-294. PAR Plot (Band 66/4 – 3.0MHz 64-QAM - Full RB Configuration)



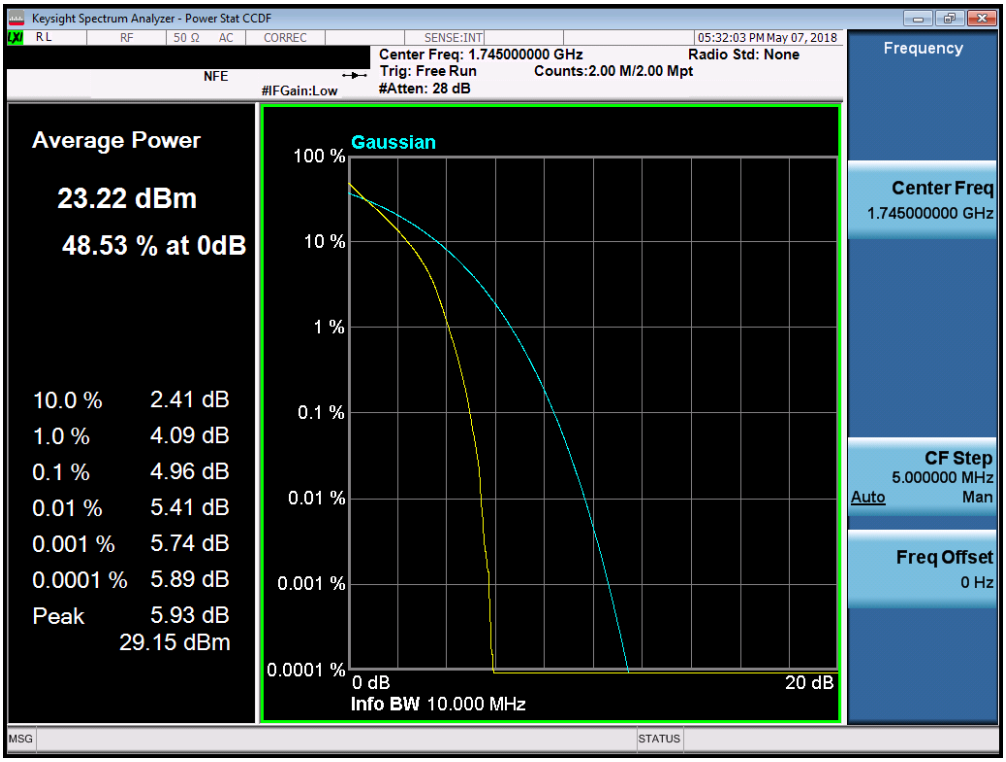
Plot 7-295. PAR Plot (Band 66/4 – 5.0MHz QPSK - Full RB Configuration)



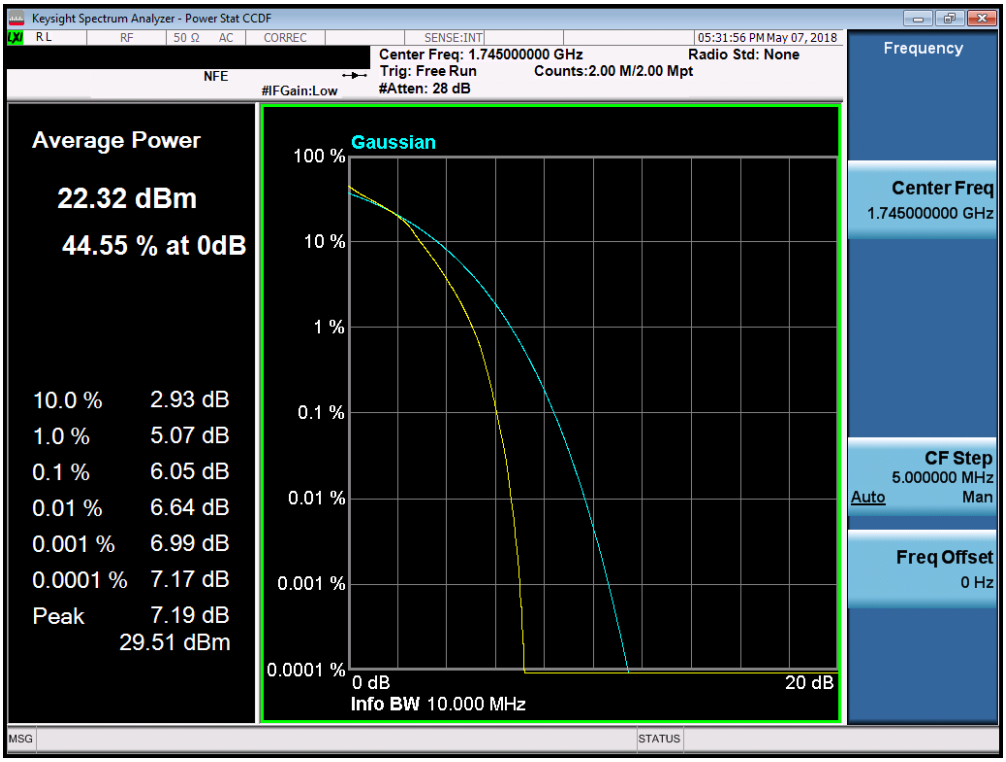
Plot 7-296. PAR Plot (Band 66/4 – 5.0MHz 16-QAM - Full RB Configuration)



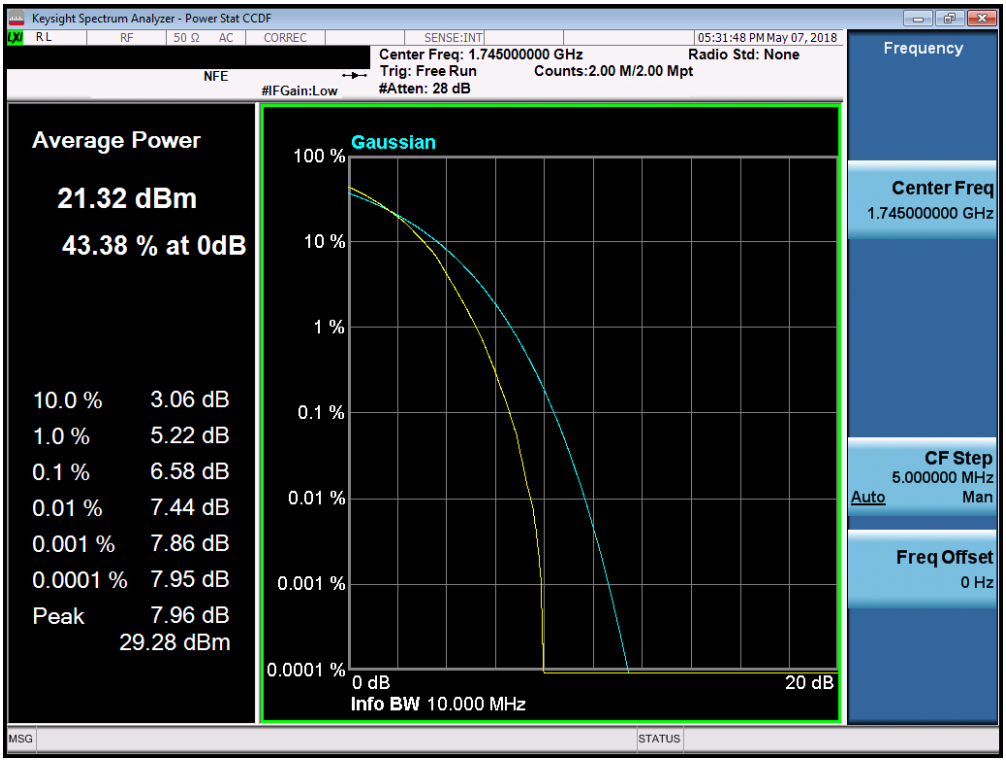
Plot 7-297. PAR Plot (Band 66/4 – 5.0MHz 64-QAM - Full RB Configuration)



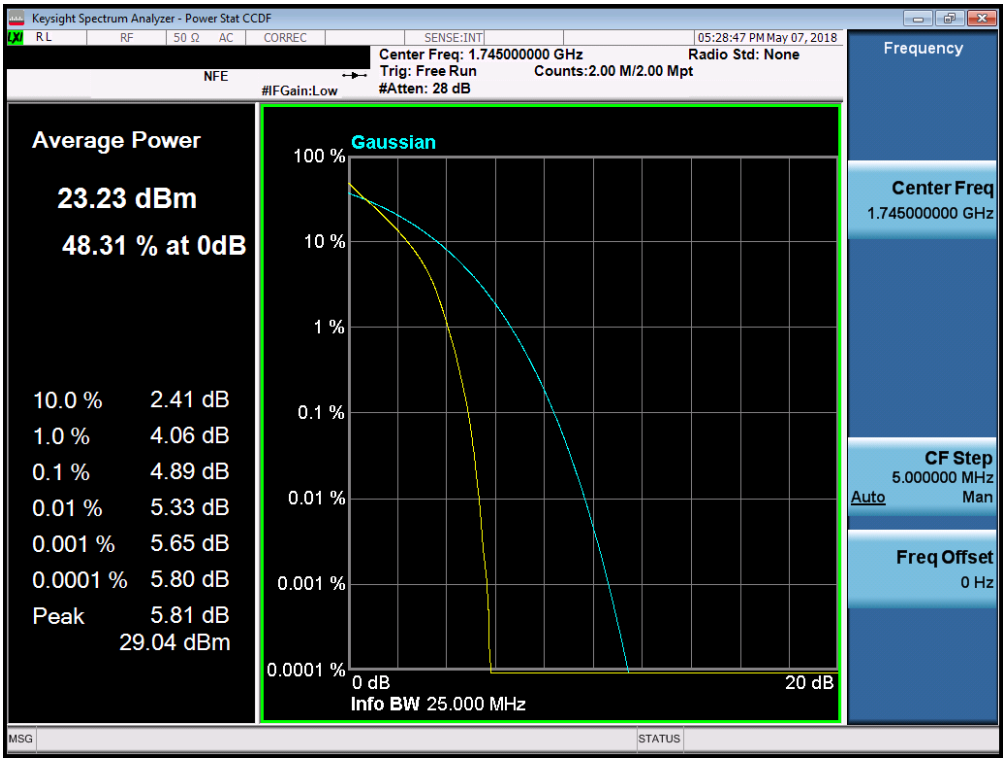
Plot 7-298. PAR Plot (Band 66/4 – 10.0MHz QPSK - Full RB Configuration)



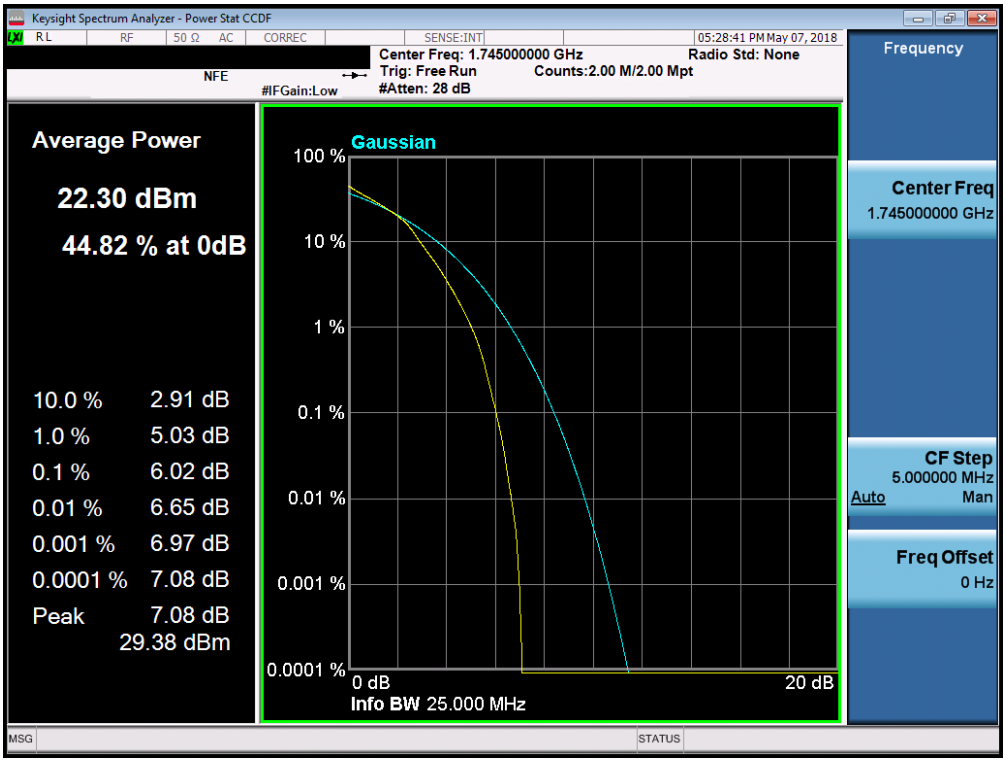
Plot 7-299. PAR Plot (Band 66/4 – 10.0MHz 16-QAM - Full RB Configuration)



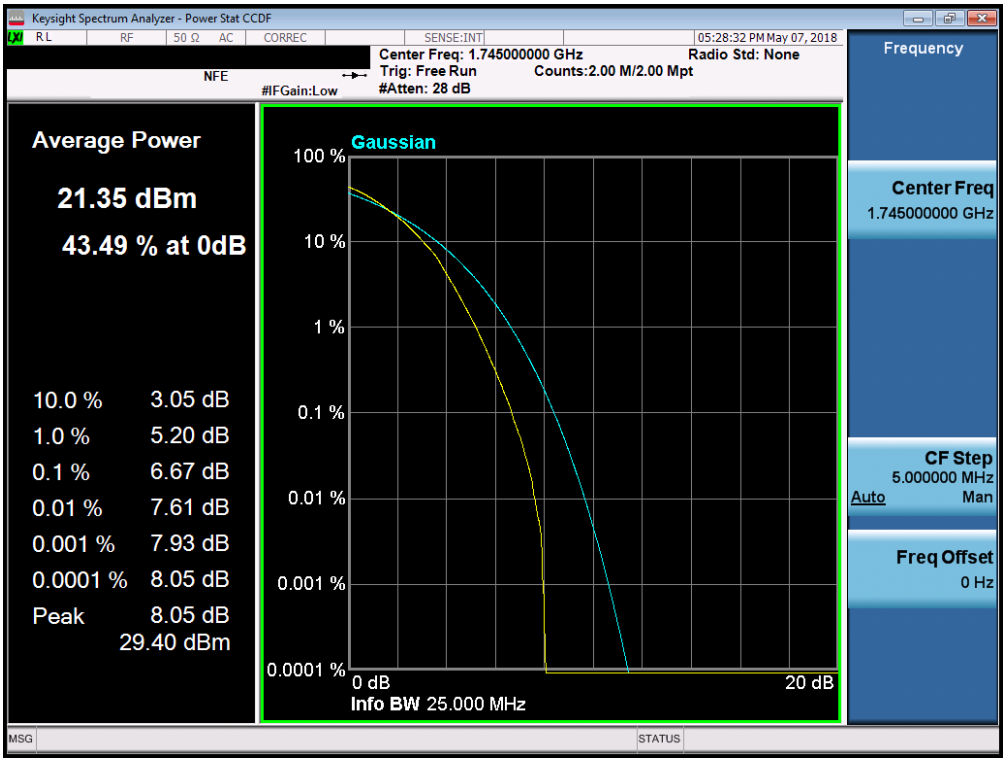
Plot 7-300. PAR Plot (Band 66/4 – 10.0MHz 64-QAM - Full RB Configuration)



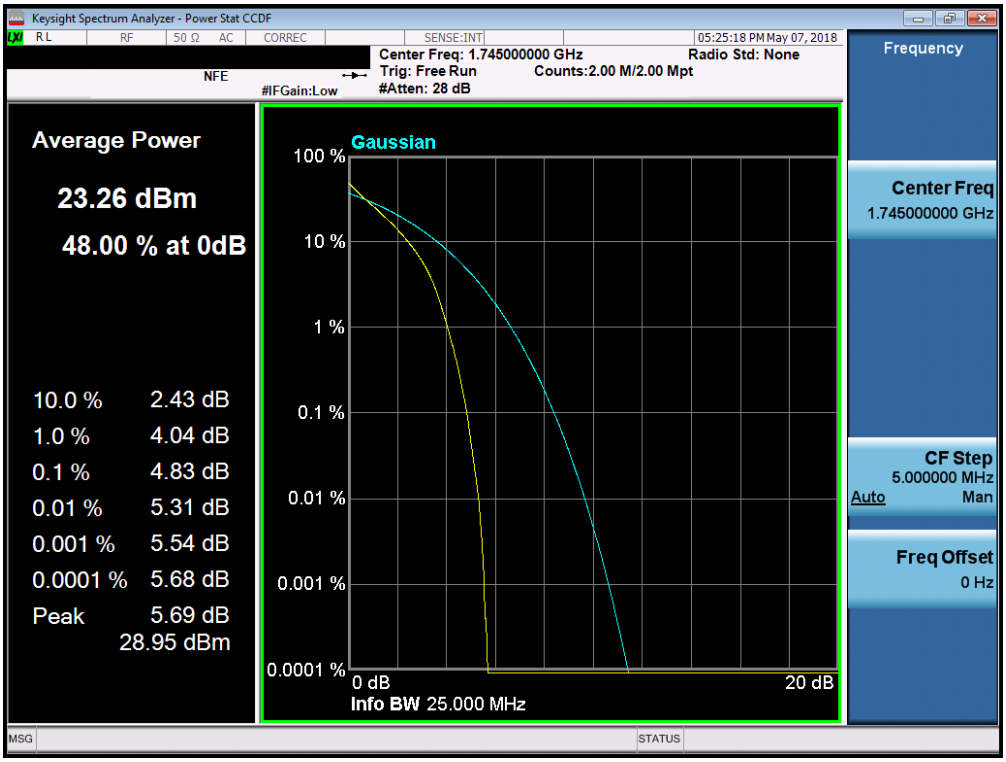
Plot 7-301. PAR Plot (Band 66/4 – 15.0MHz QPSK - Full RB Configuration)



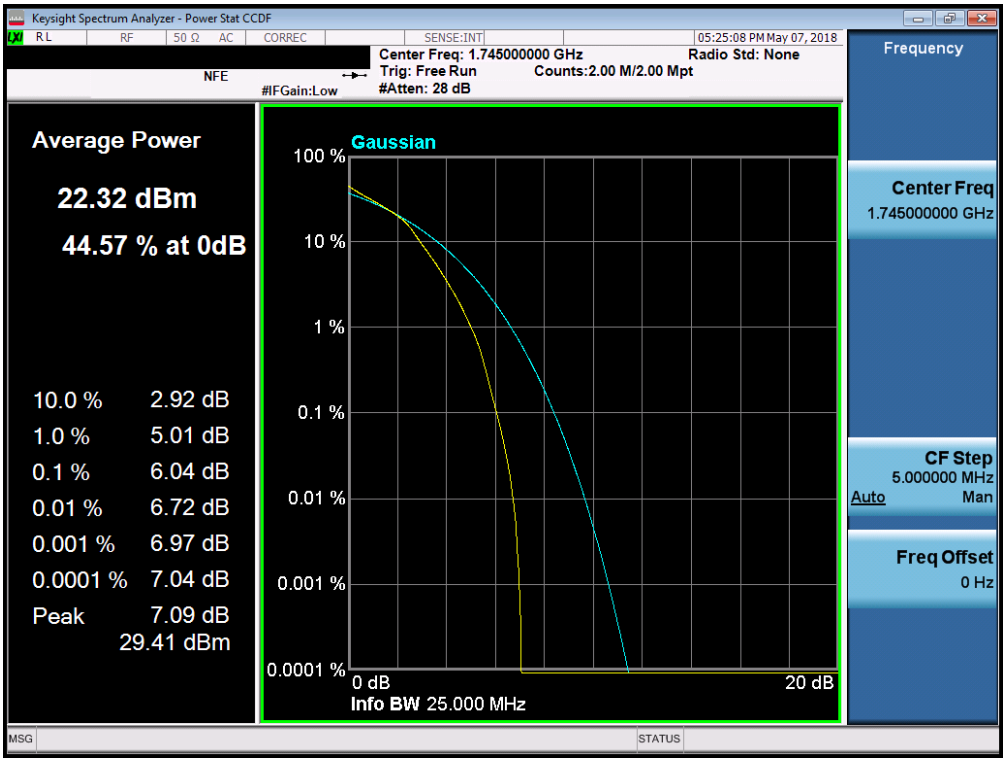
Plot 7-302. PAR Plot (Band 66/4 – 15.0MHz 16-QAM - Full RB Configuration)



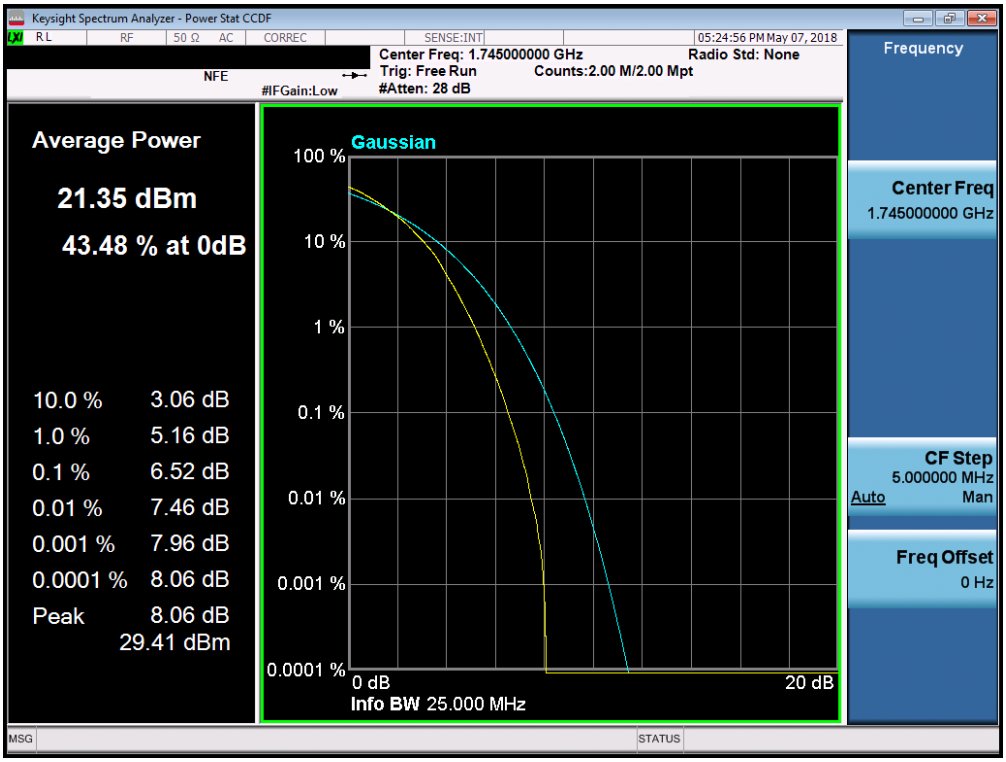
Plot 7-303. PAR Plot (Band 66/4 – 15.0MHz 64-QAM - Full RB Configuration)



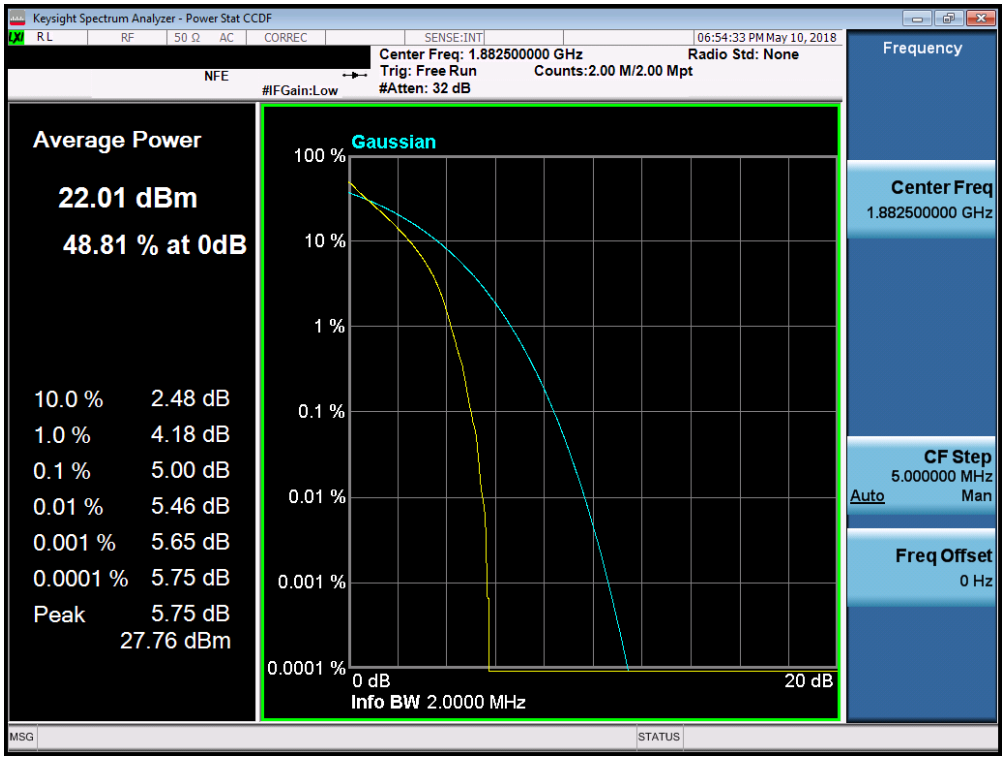
Plot 7-304. PAR Plot (Band 66/4 – 20.0MHz QPSK - Full RB Configuration)



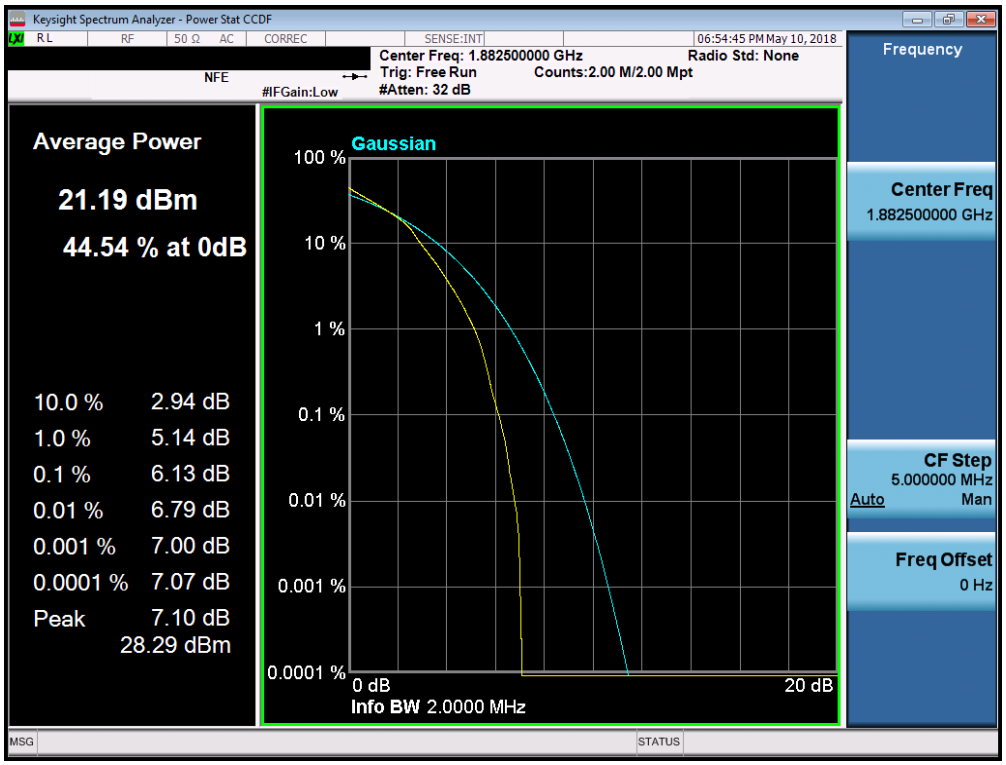
Plot 7-305. PAR Plot (Band 66/4 – 20.0MHz 16-QAM - Full RB Configuration)



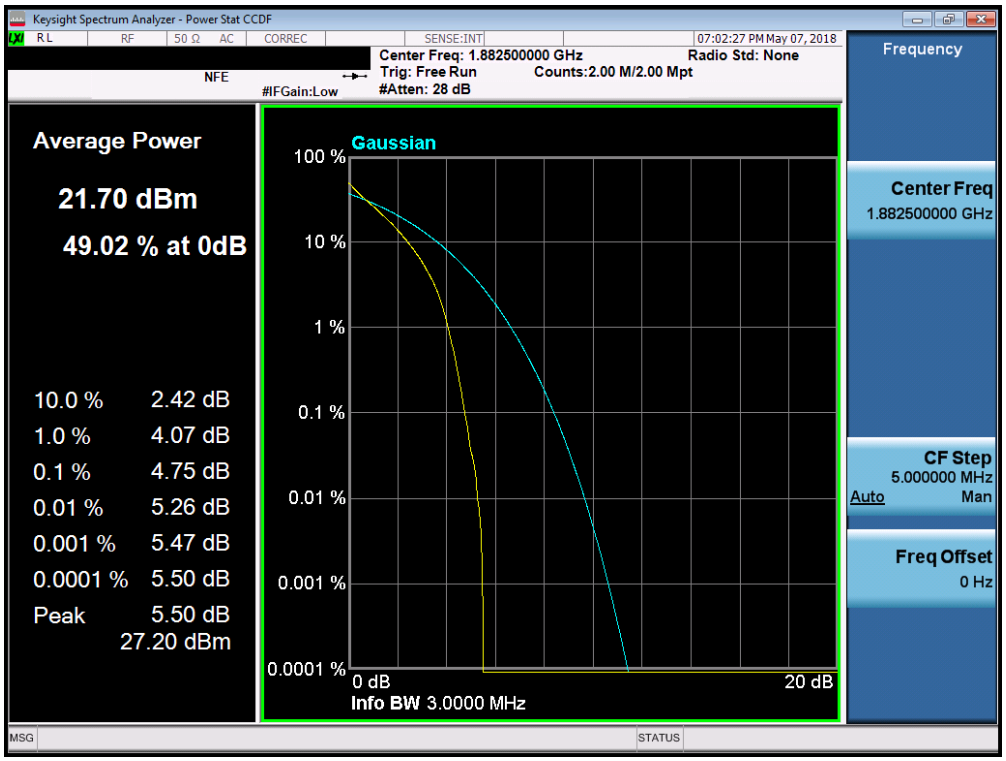
Plot 7-306. PAR Plot (Band 66/4 –20.0MHz 64-QAM - Full RB Configuration)



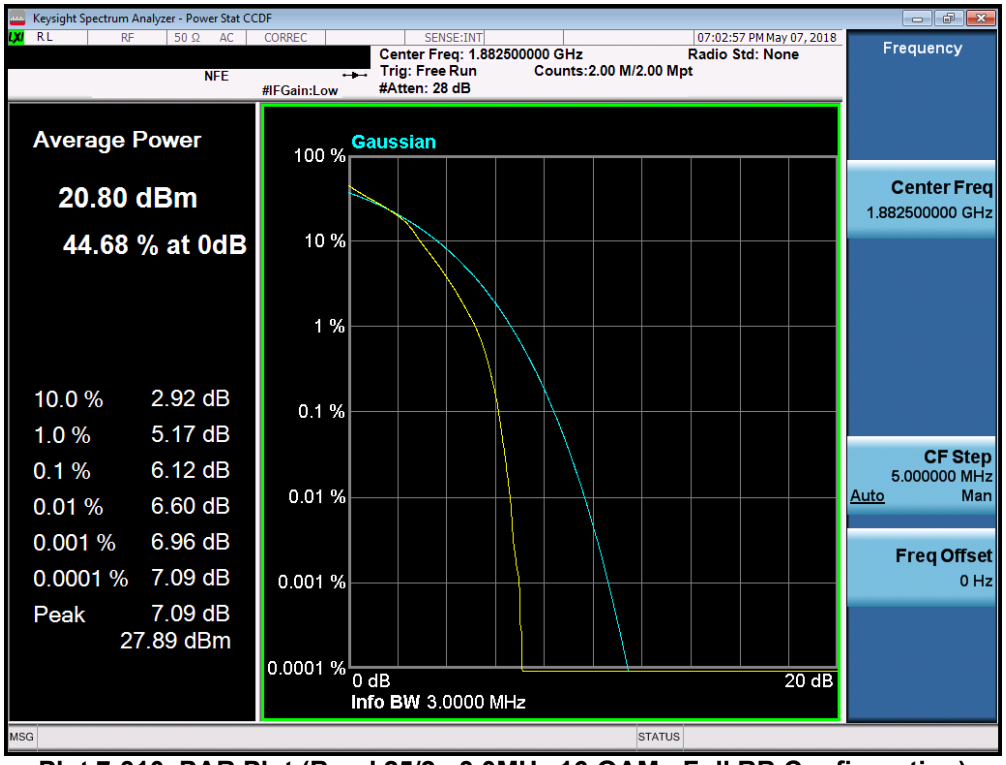
Plot 7-307. PAR Plot (Band 25/2 - 1.4MHz QPSK - Full RB Configuration)



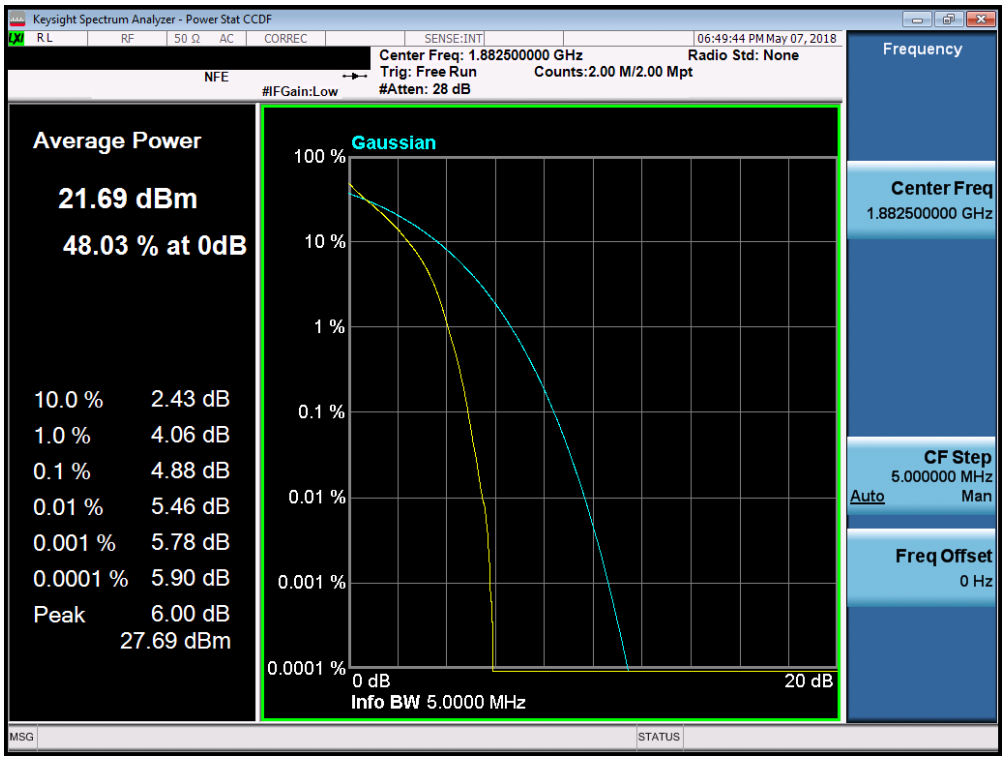
Plot 7-308. PAR Plot (Band 25/2 - 1.4MHz 16-QAM - Full RB Configuration)



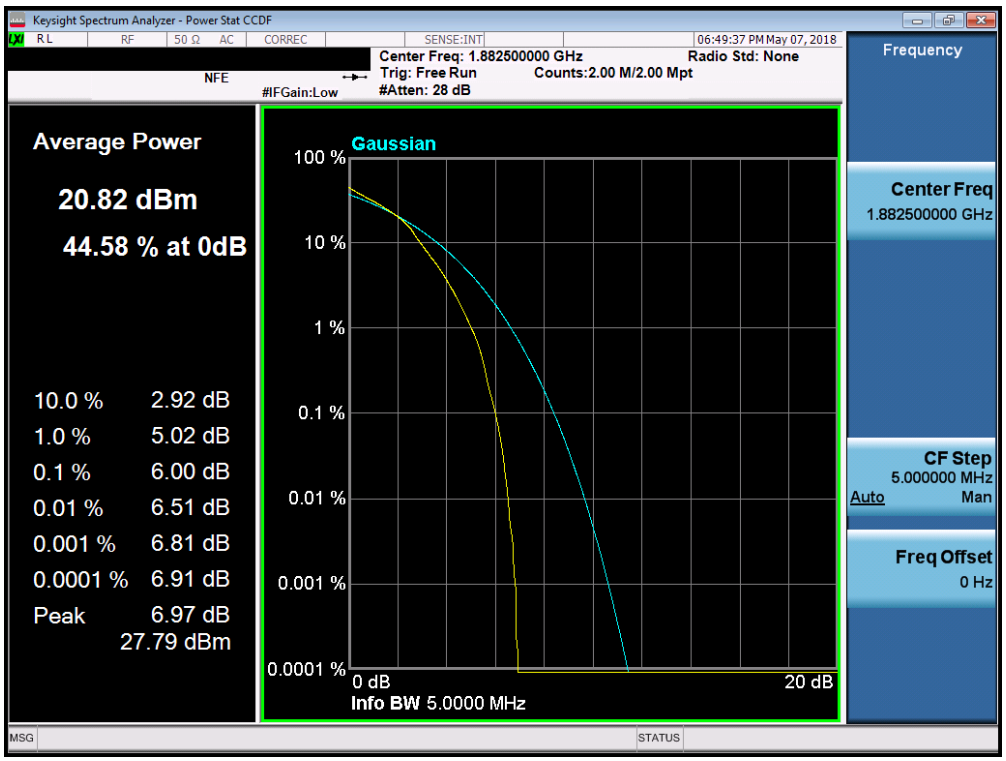
Plot 7-309. PAR Plot (Band 25/2 - 3.0MHz QPSK - Full RB Configuration)



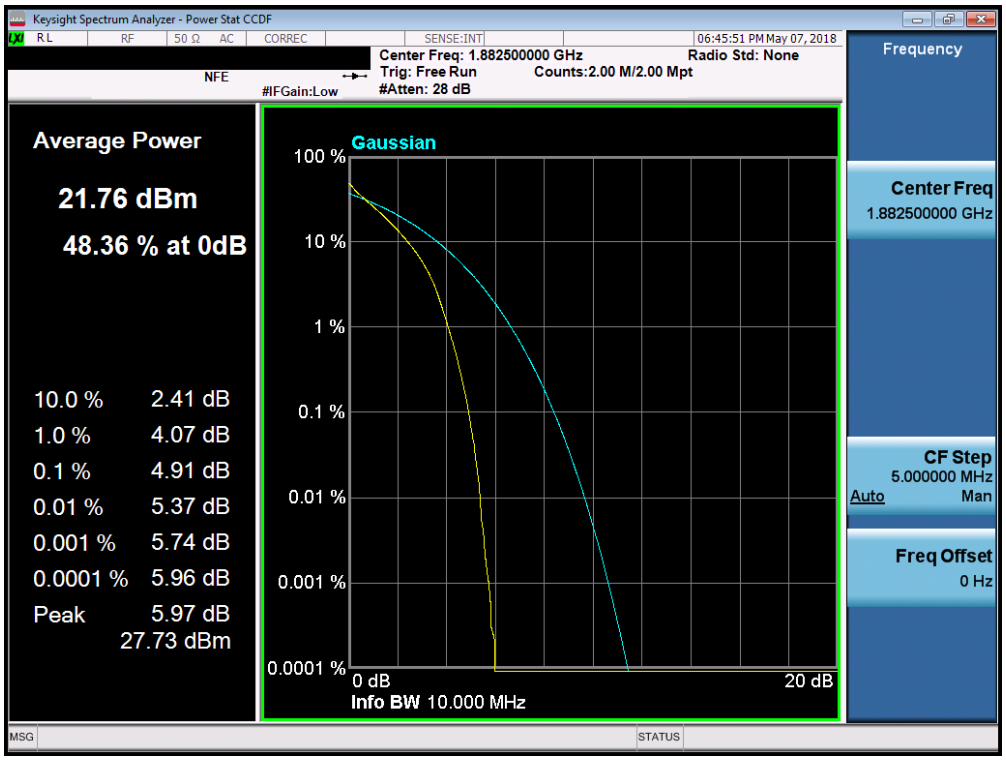
Plot 7-310. PAR Plot (Band 25/2 - 3.0MHz 16-QAM - Full RB Configuration)



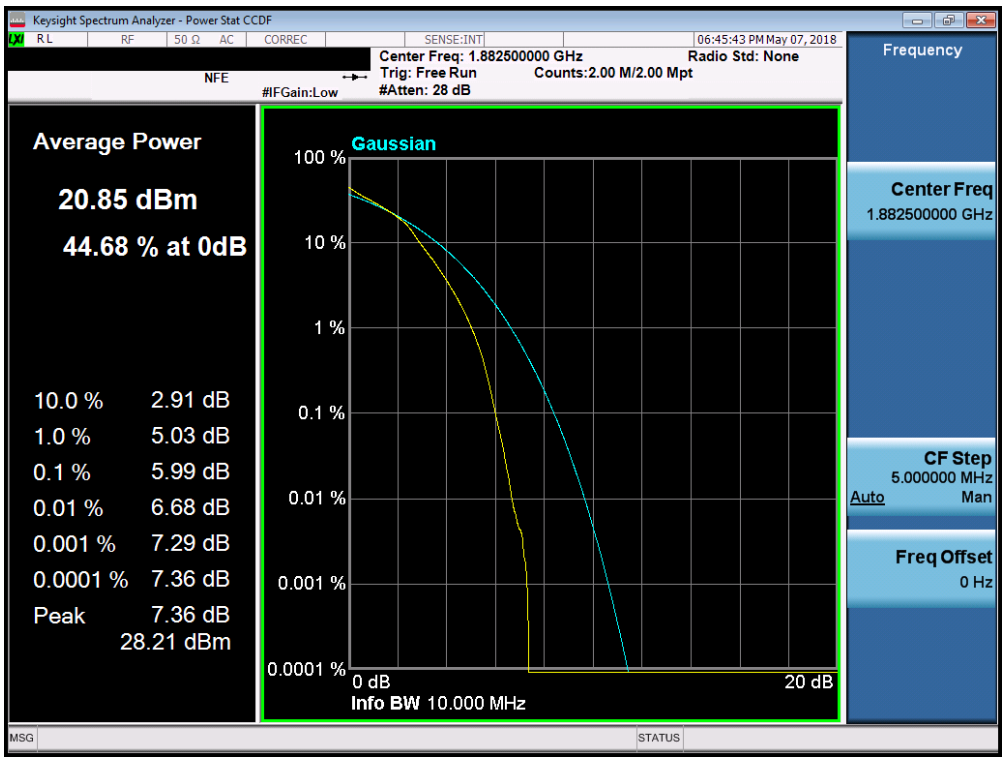
Plot 7-311. PAR Plot (Band 25/2 - 5.0MHz QPSK - Full RB Configuration)



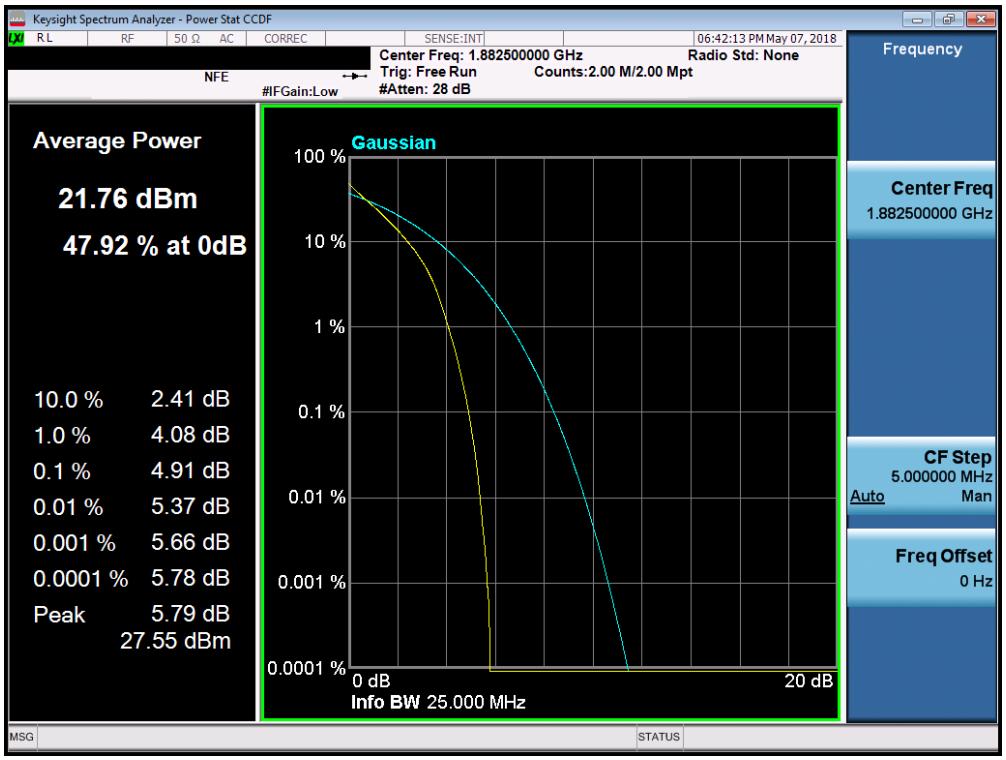
Plot 7-312. PAR Plot (Band 25/2 - 5.0MHz 16-QAM - Full RB Configuration)



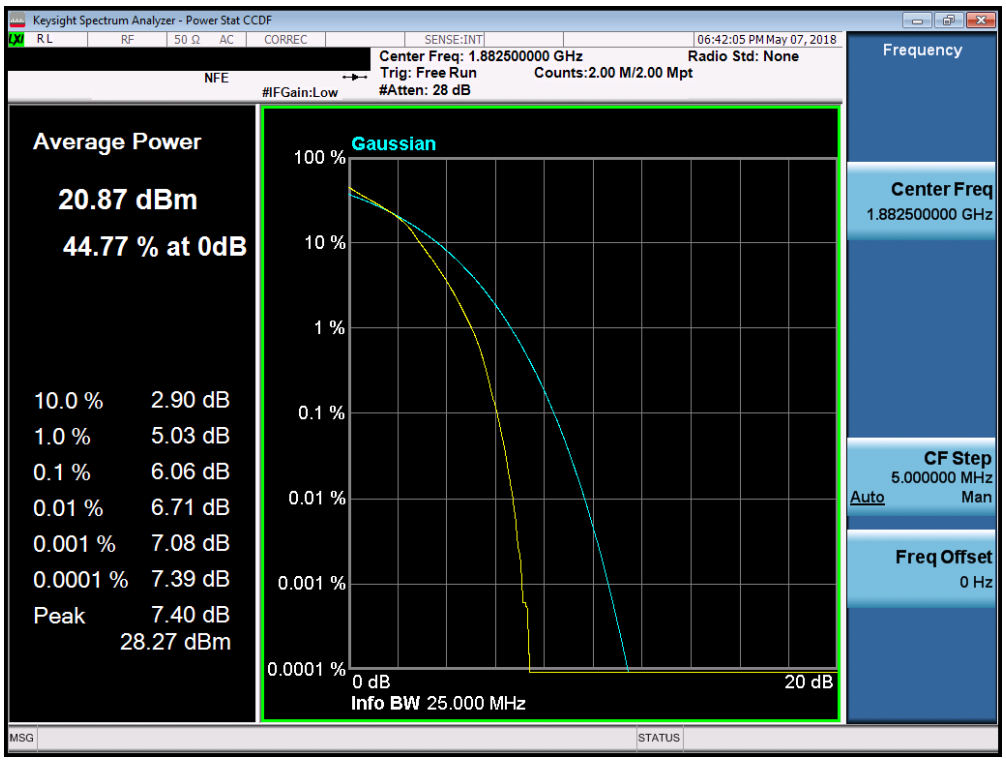
Plot 7-313. PAR Plot (Band 25/2 - 10.0MHz QPSK - Full RB Configuration)



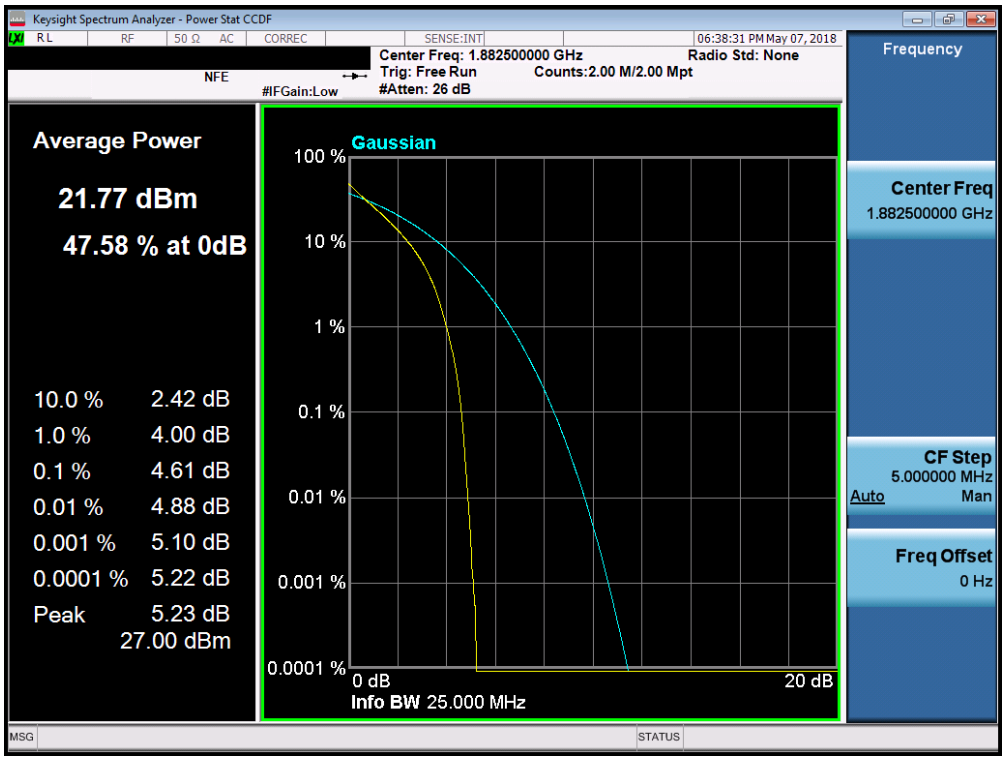
Plot 7-314. PAR Plot (Band 25/2 - 10.0MHz 16-QAM - Full RB Configuration)



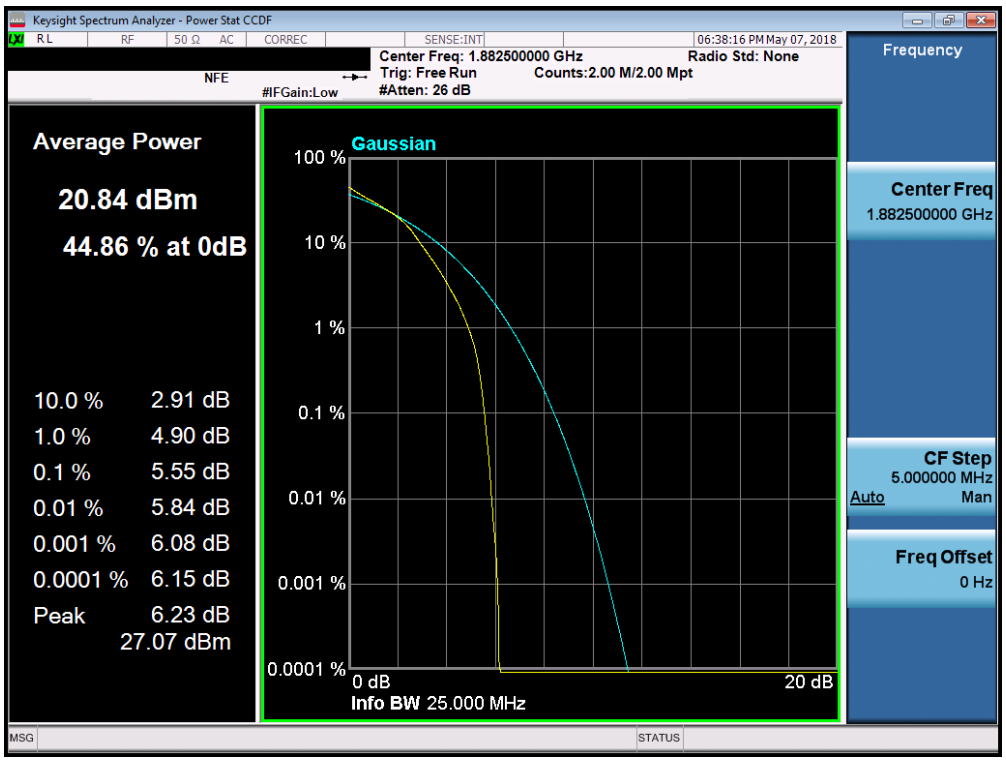
Plot 7-315. PAR Plot (Band 25/2 - 15.0MHz QPSK - Full RB Configuration)



Plot 7-316. PAR Plot (Band 25/2 - 15.0MHz 16-QAM - Full RB Configuration)

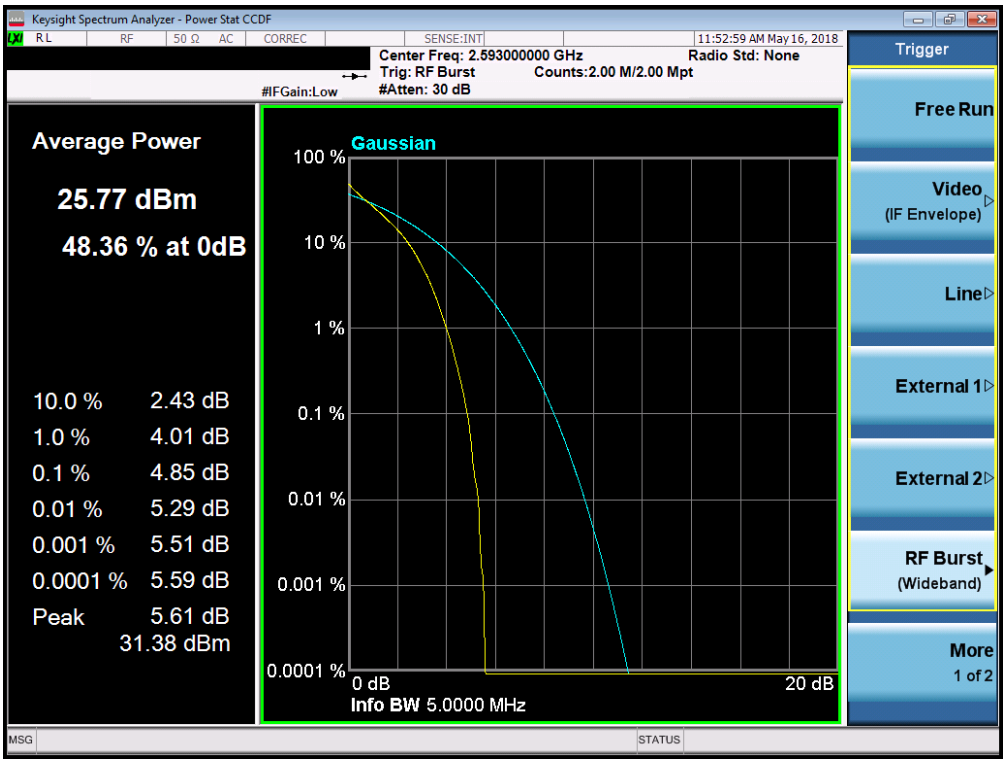


Plot 7-317. PAR Plot (Band 25/2 - 20.0MHz QPSK - Full RB Configuration)

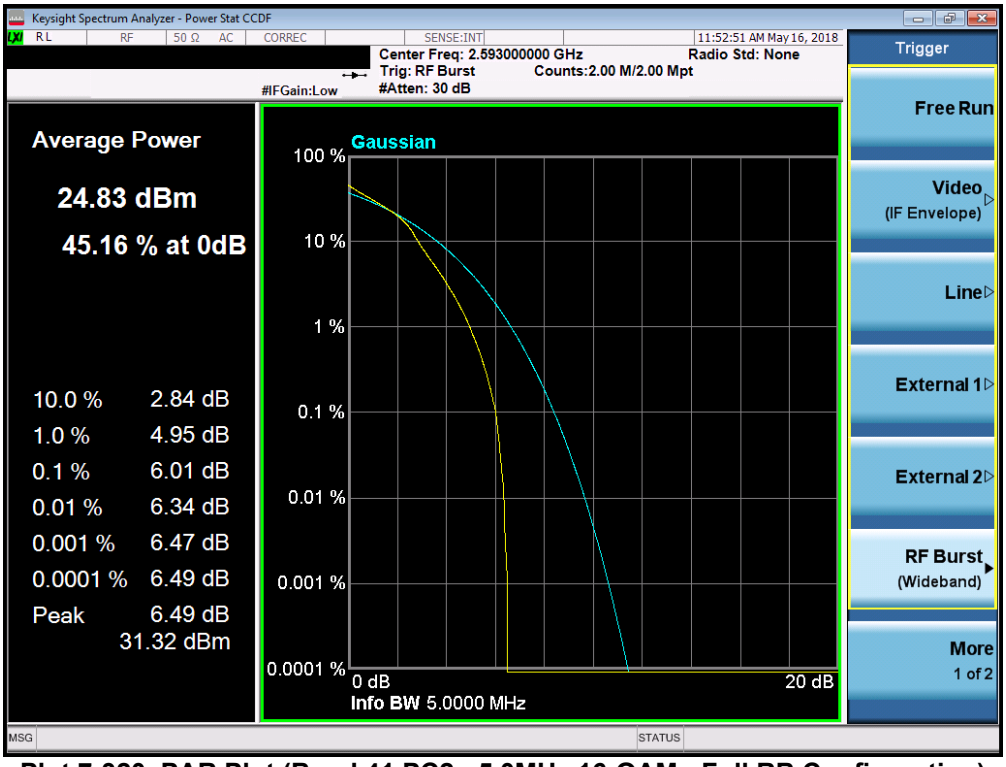


Plot 7-318. PAR Plot (Band 25/2 - 20.0MHz 16-QAM - Full RB Configuration)

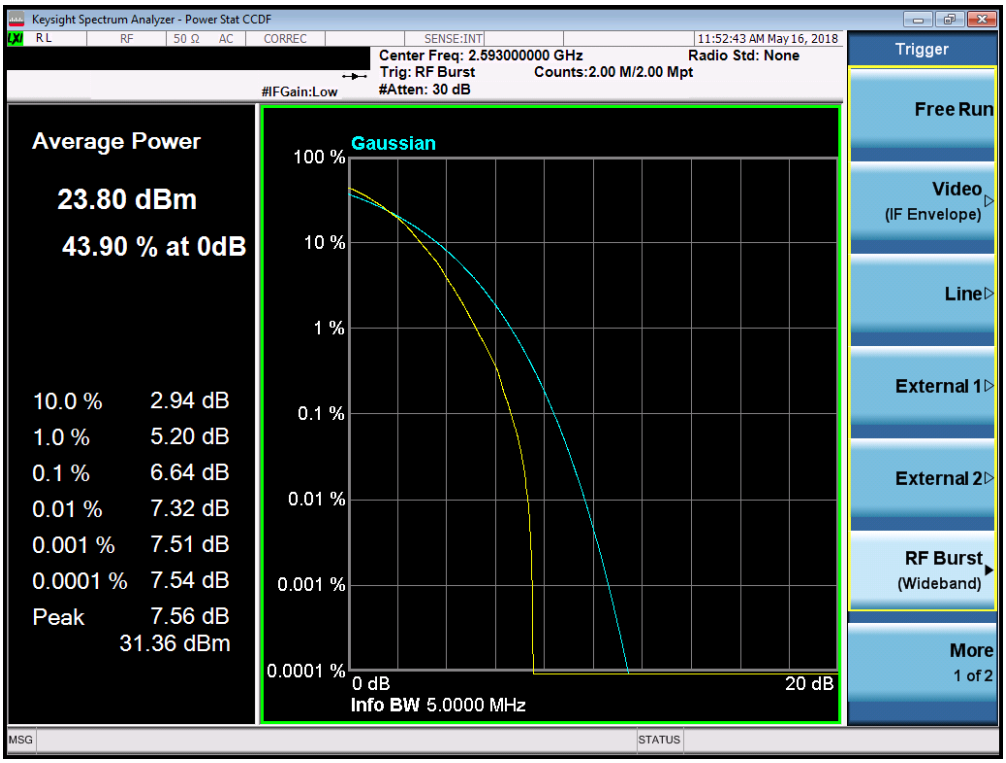
Band 41 PC2



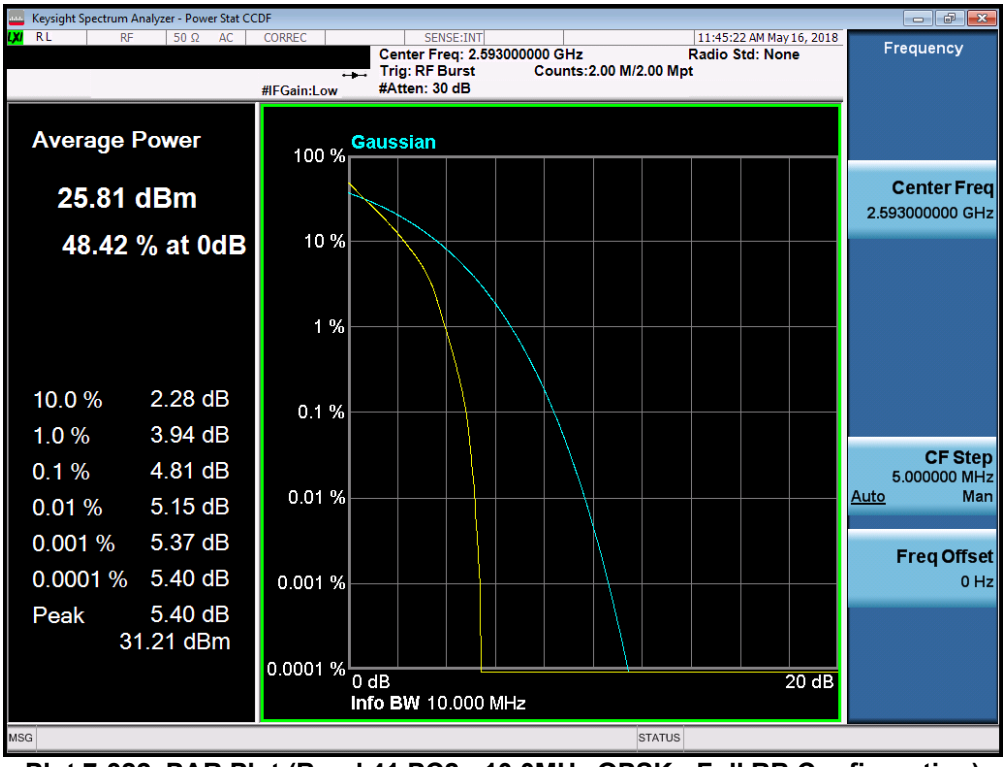
Plot 7-319. PAR Plot (Band 41 PC2 - 5.0MHz QPSK - Full RB Configuration)



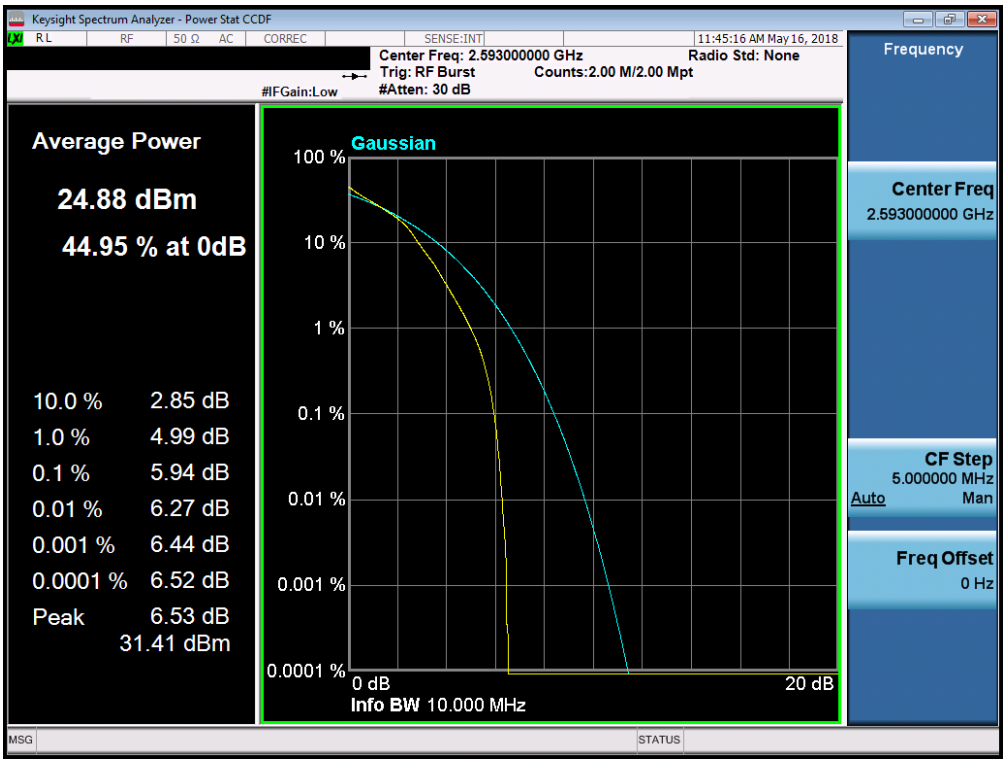
Plot 7-320. PAR Plot (Band 41 PC2 - 5.0MHz 16-QAM - Full RB Configuration)



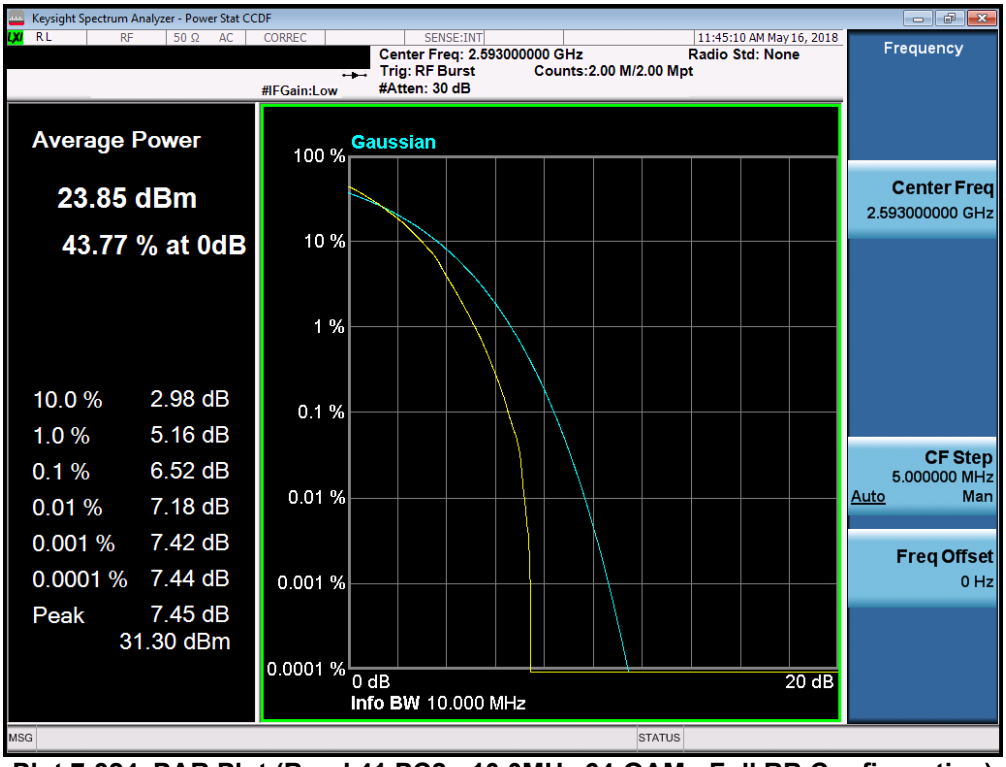
Plot 7-321. PAR Plot (Band 41 PC2 - 5.0MHz 64-QAM - Full RB Configuration)



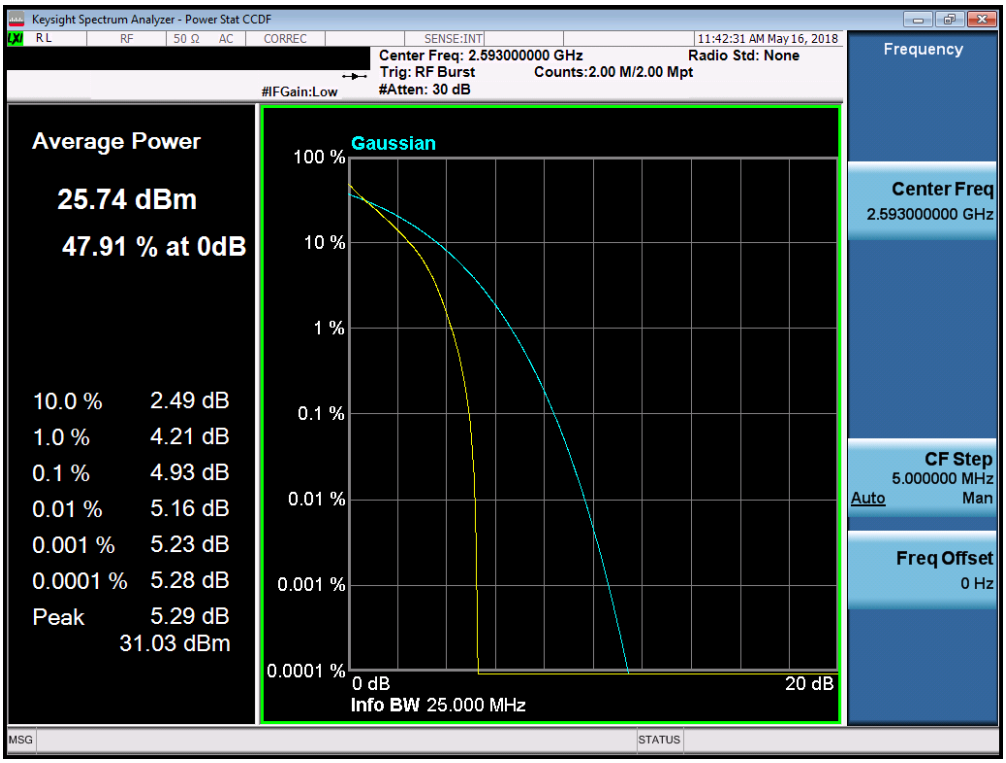
Plot 7-322. PAR Plot (Band 41 PC2 - 10.0MHz QPSK - Full RB Configuration)



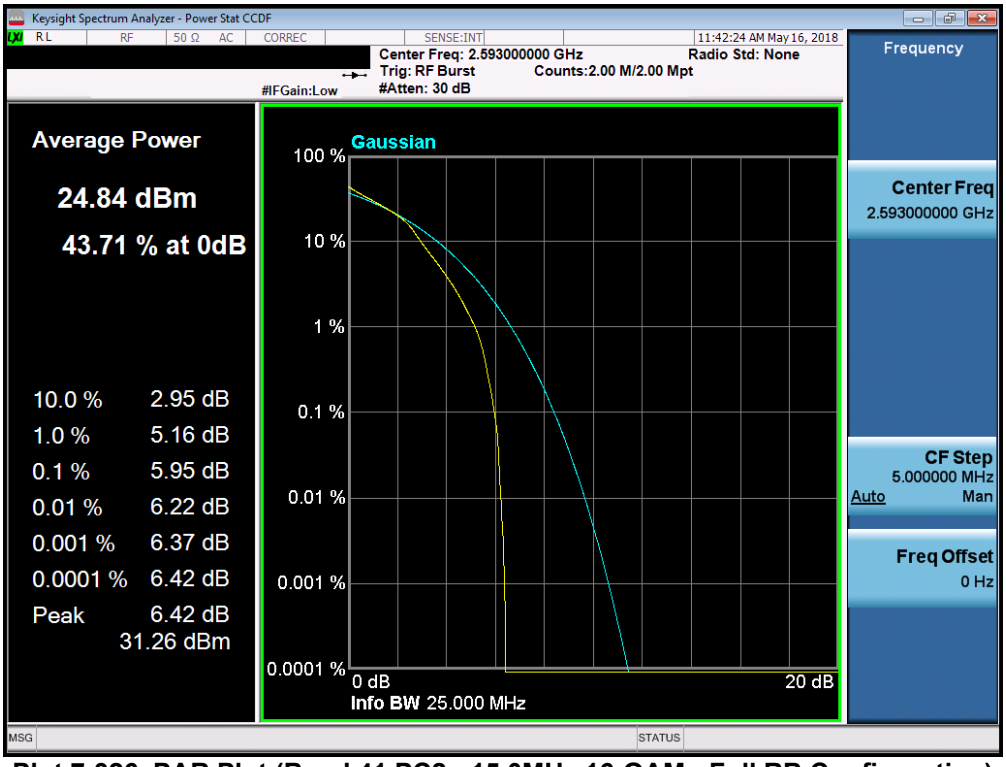
Plot 7-323. PAR Plot (Band 41 PC2 - 10.0MHz 16-QAM - Full RB Configuration)



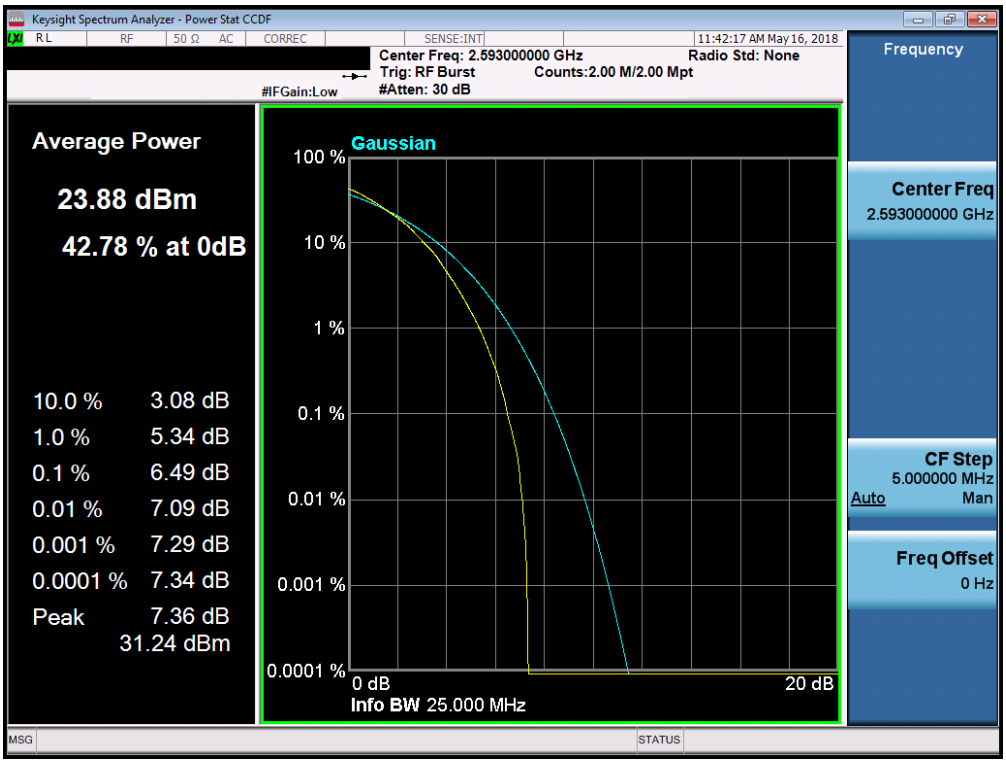
Plot 7-324. PAR Plot (Band 41 PC2 - 10.0MHz 64-QAM - Full RB Configuration)



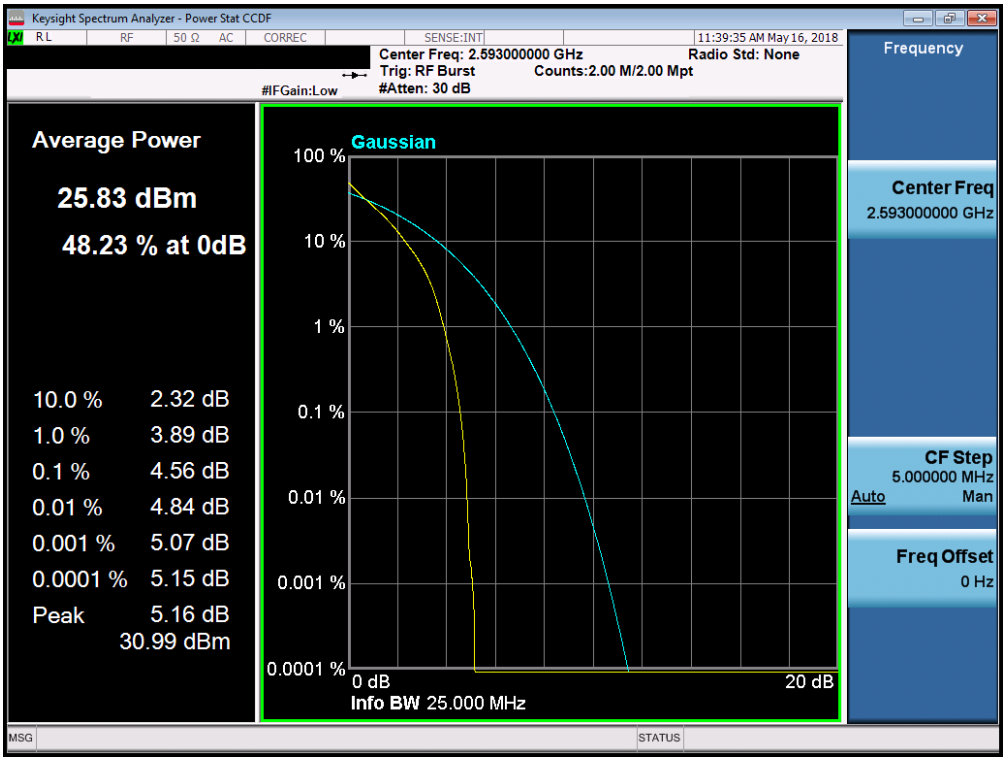
Plot 7-325. PAR Plot (Band 41 PC2 - 15.0MHz QPSK - Full RB Configuration)



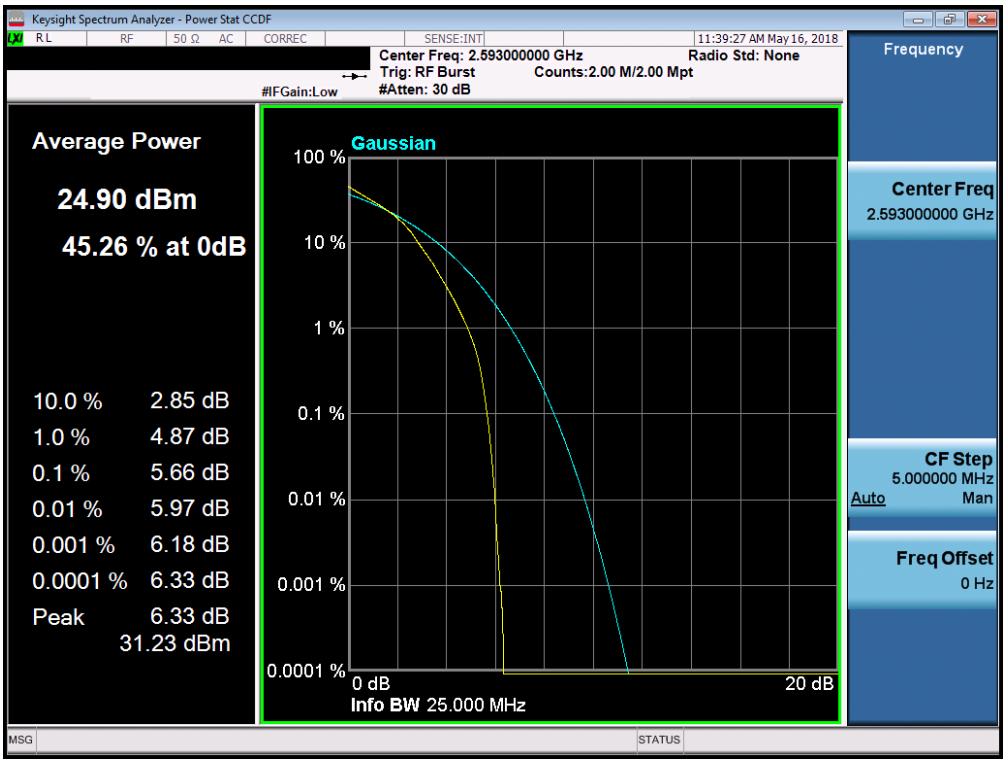
Plot 7-326. PAR Plot (Band 41 PC2 - 15.0MHz 16-QAM - Full RB Configuration)



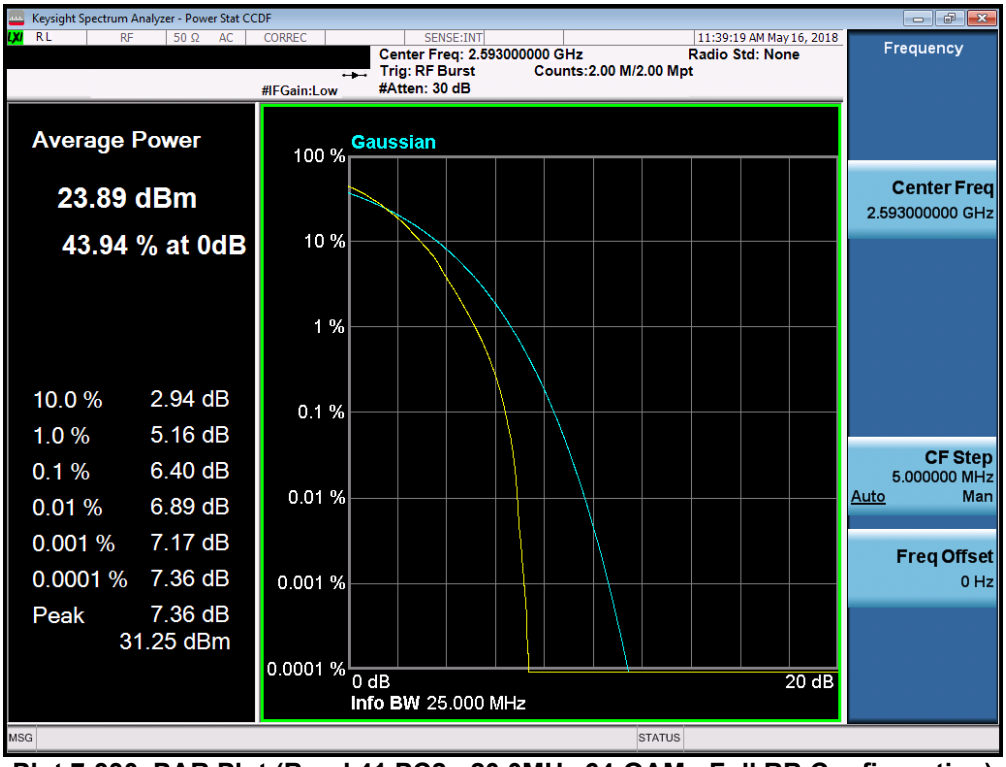
Plot 7-327. PAR Plot (Band 41 PC2 - 15.0MHz 64-QAM - Full RB Configuration)



Plot 7-328. PAR Plot (Band 41 PC2 - 20.0MHz QPSK - Full RB Configuration)

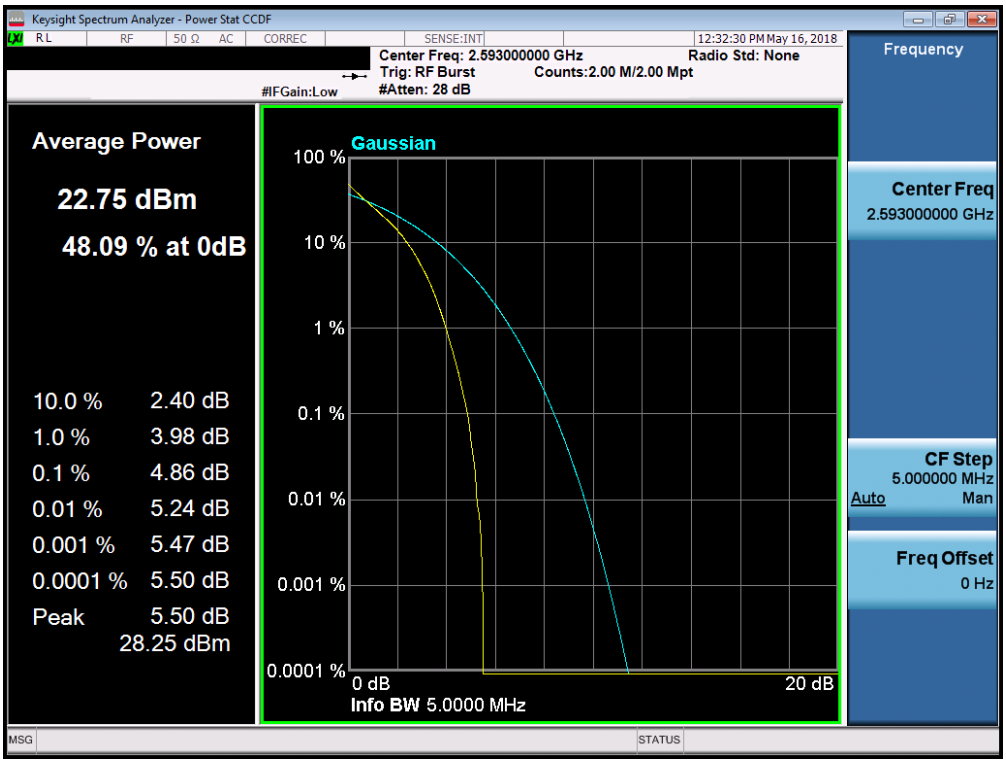


Plot 7-329. PAR Plot (Band 41 PC2 - 20.0MHz 16-QAM - Full RB Configuration)

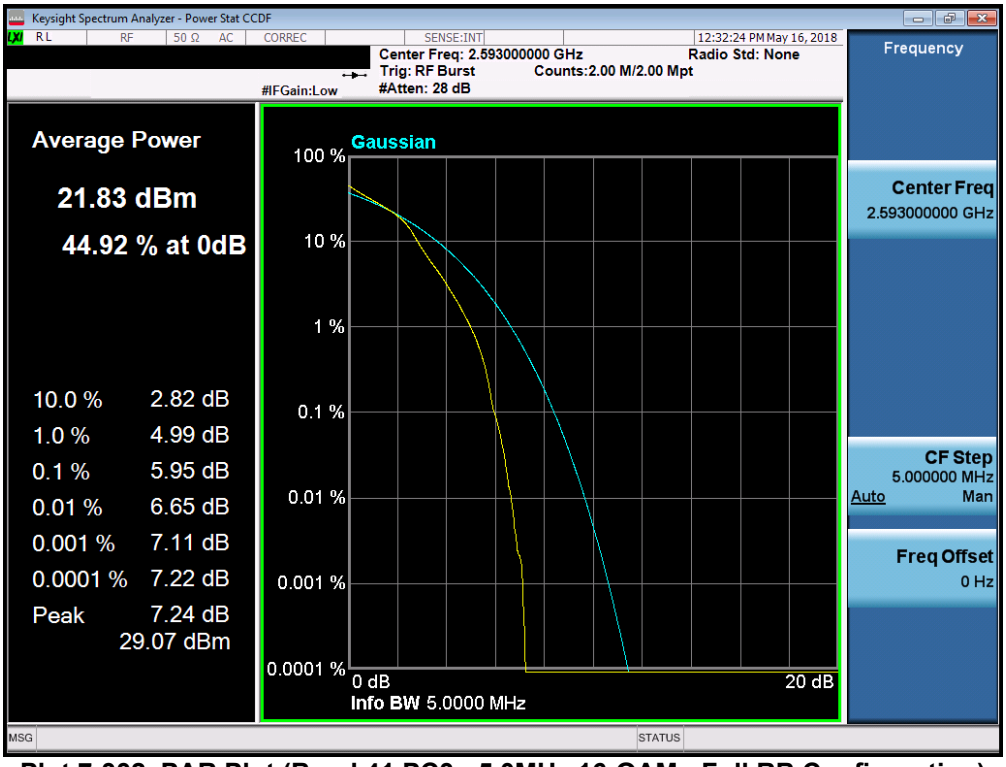


Plot 7-330. PAR Plot (Band 41 PC2 - 20.0MHz 64-QAM - Full RB Configuration)

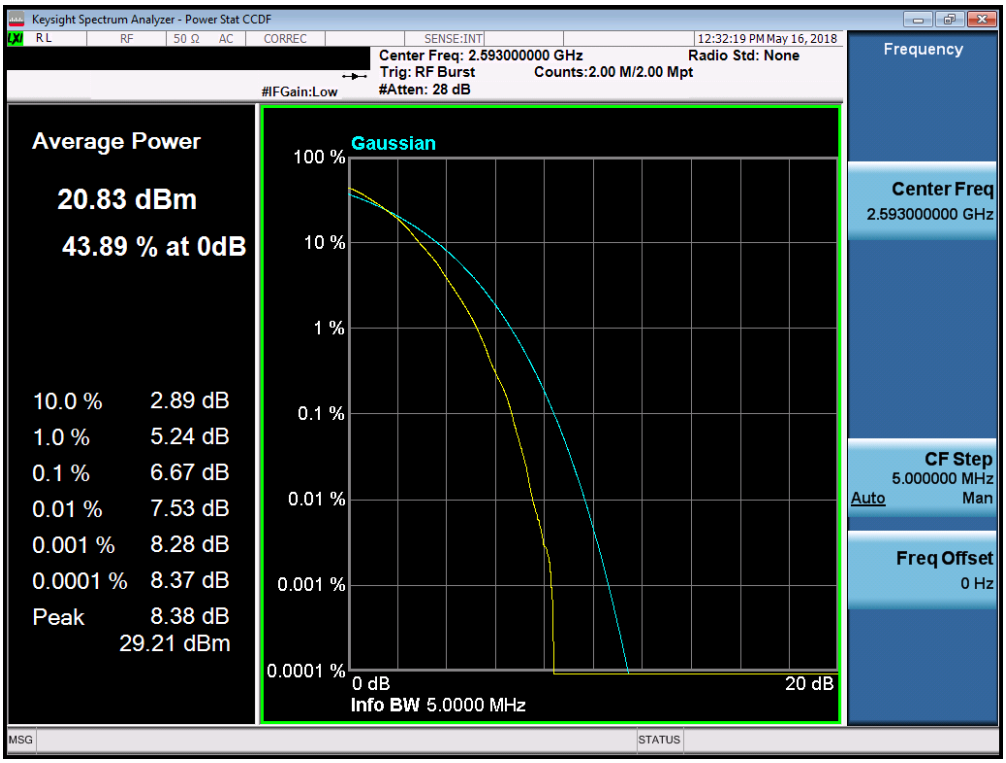
Band 41 PC3



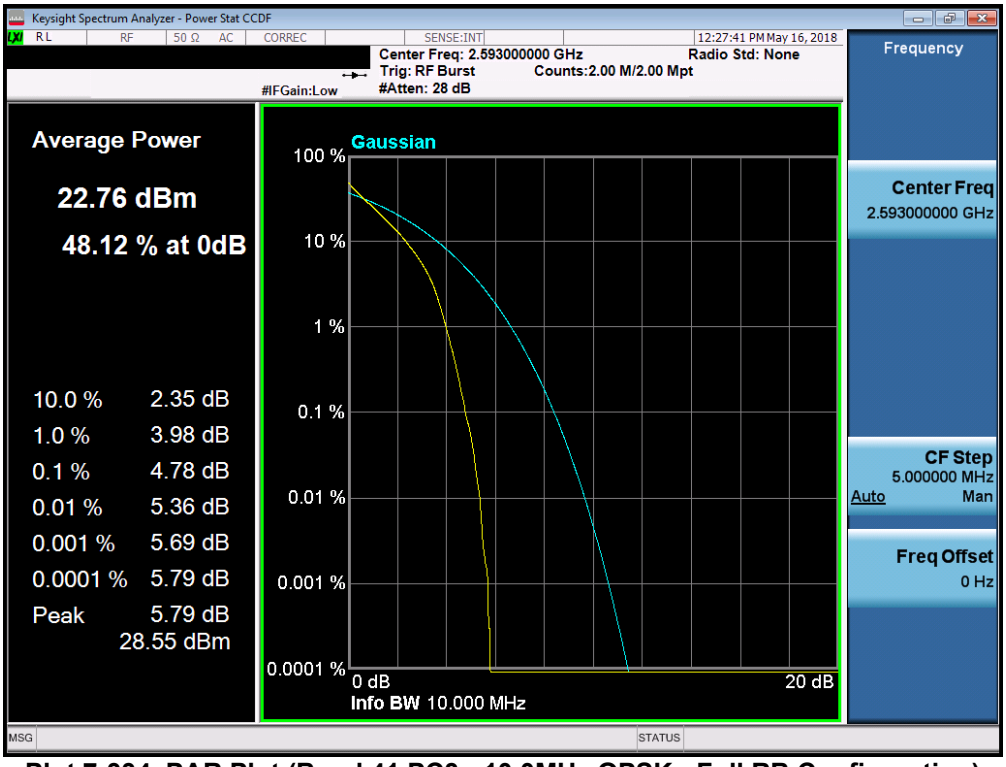
Plot 7-331. PAR Plot (Band 41 PC3 - 5.0MHz QPSK - Full RB Configuration)



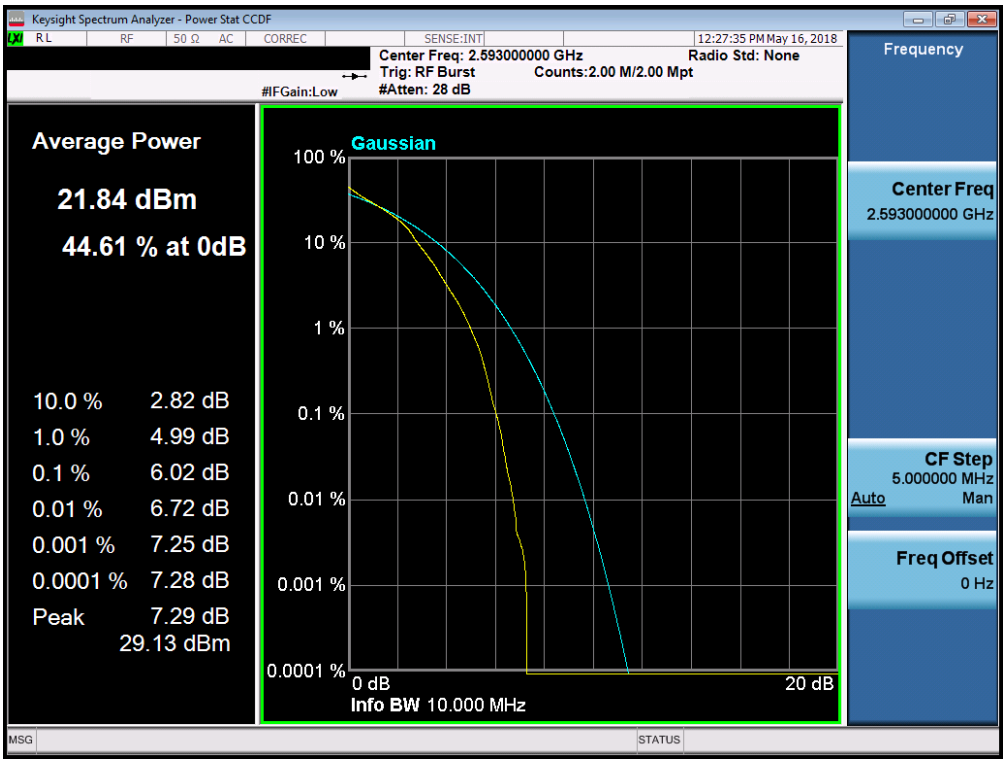
Plot 7-332. PAR Plot (Band 41 PC3 - 5.0MHz 16-QAM - Full RB Configuration)



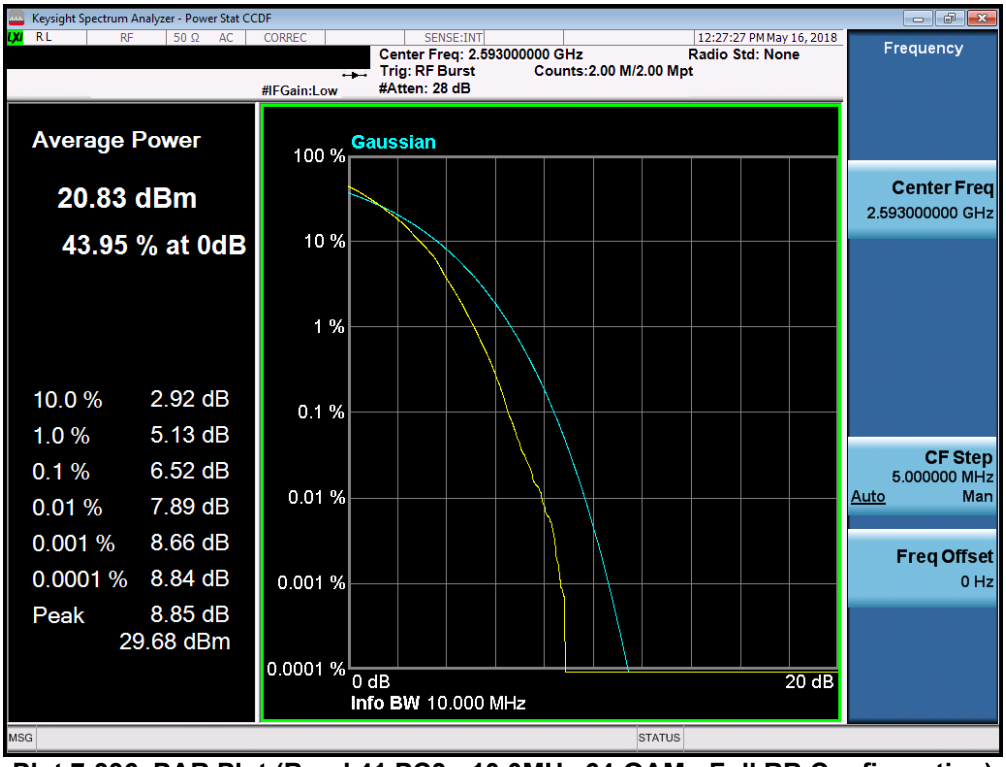
Plot 7-333. PAR Plot (Band 41 PC3 - 5.0MHz 64-QAM - Full RB Configuration)



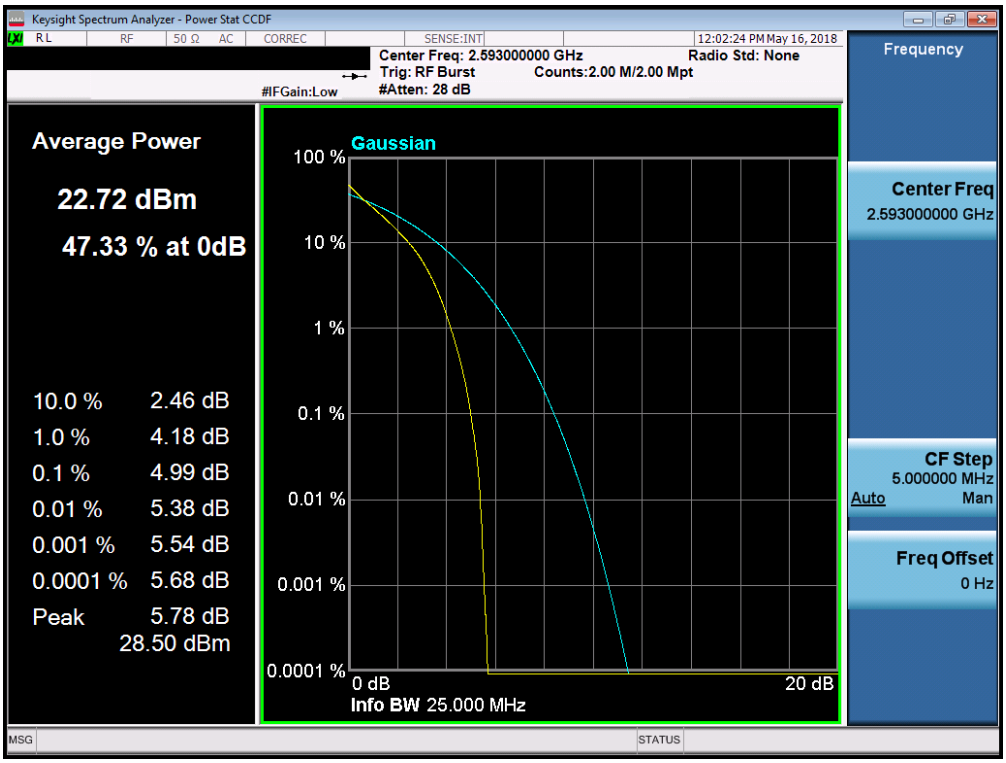
Plot 7-334. PAR Plot (Band 41 PC3 - 10.0MHz QPSK - Full RB Configuration)



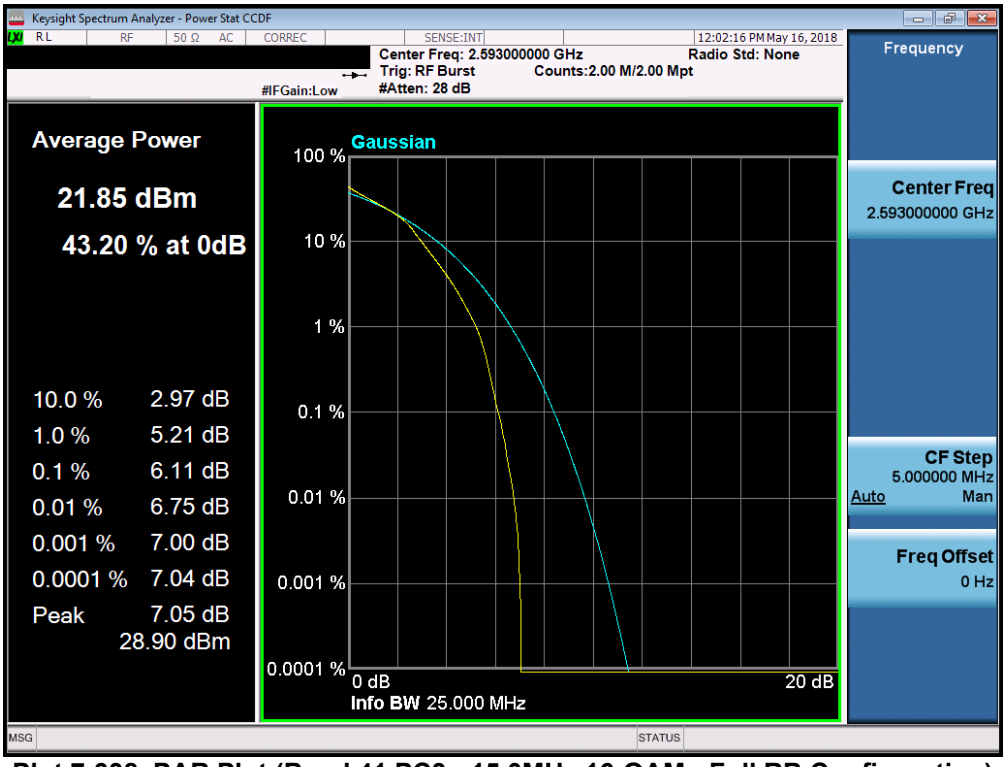
Plot 7-335. PAR Plot (Band 41 PC3 - 10.0MHz 16-QAM - Full RB Configuration)



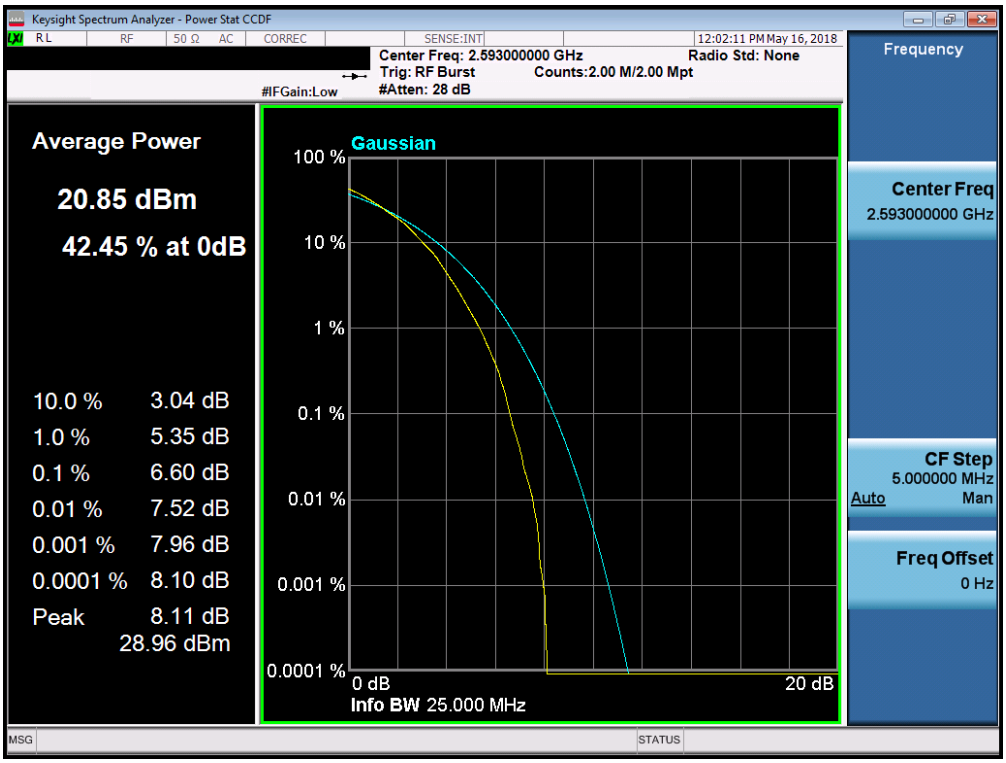
Plot 7-336. PAR Plot (Band 41 PC3 - 10.0MHz 64-QAM - Full RB Configuration)



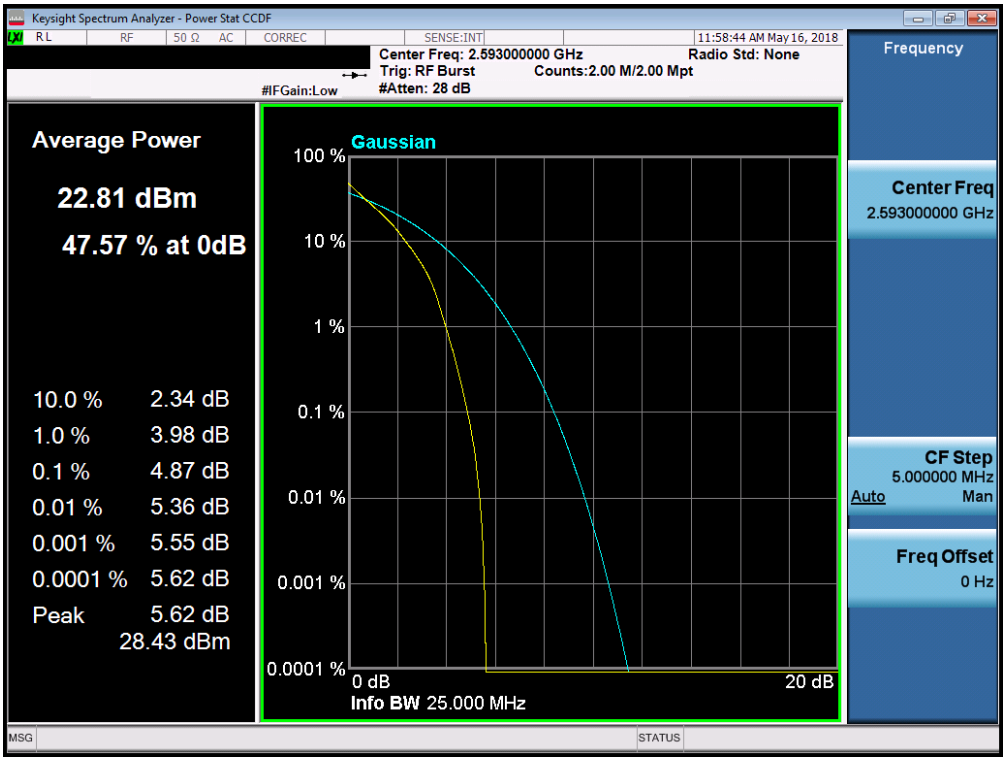
Plot 7-337. PAR Plot (Band 41 PC3 - 15.0MHz QPSK - Full RB Configuration)



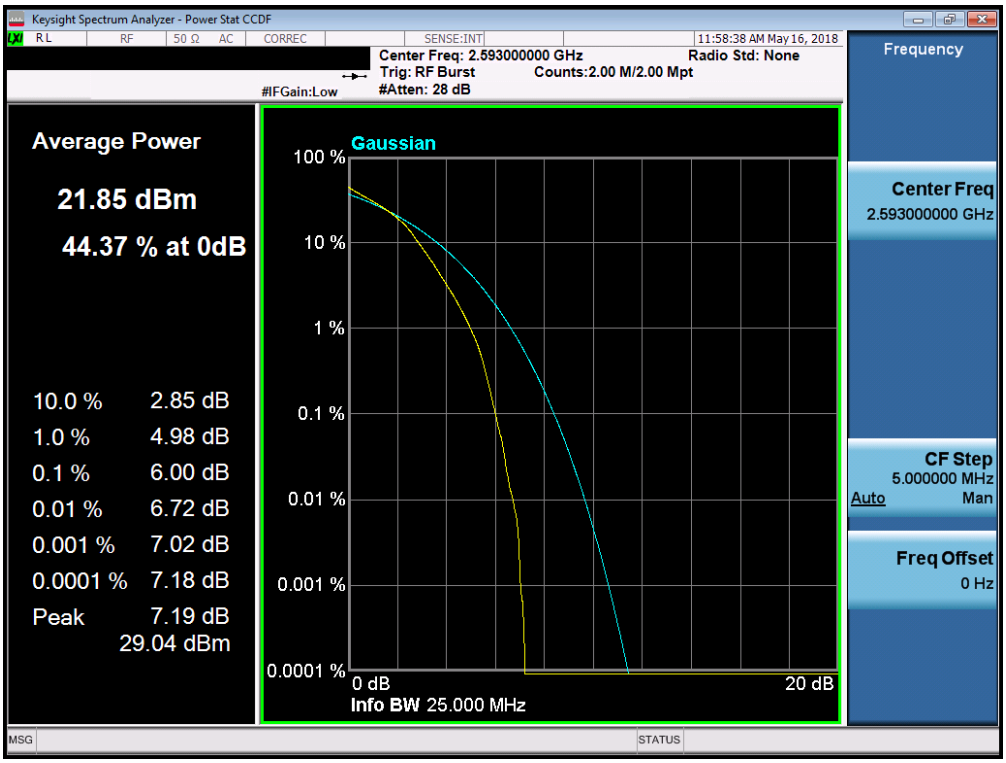
Plot 7-338. PAR Plot (Band 41 PC3 - 15.0MHz 16-QAM - Full RB Configuration)



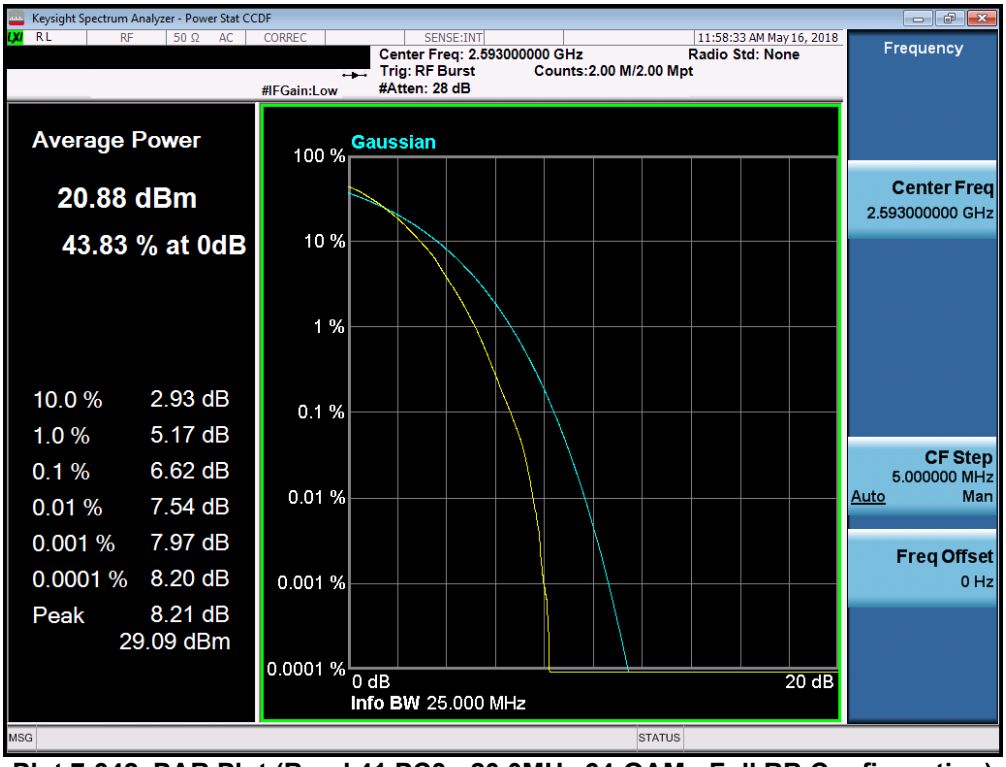
Plot 7-339. PAR Plot (Band 41 PC3 - 15.0MHz 64-QAM - Full RB Configuration)



Plot 7-340. PAR Plot (Band 41 PC3 - 20.0MHz QPSK - Full RB Configuration)



Plot 7-341. PAR Plot (Band 41 PC3 - 20.0MHz 16-QAM - Full RB Configuration)



Plot 7-342. PAR Plot (Band 41 PC3 - 20.0MHz 64-QAM - Full RB Configuration)

7.6 Additional Maximum Power Reduction (A-MPR)

§2.1046

Test Overview

A-MPR is implemented in this device when operating at Power Class 2 in LTE Band 41 per the A-MPR specification in 3GPP TS 36.101. The conducted powers are shown herein to cover the different A-MPR levels specified in the standard. Measurement equipment was set up with triggering/gating on the spectrum analyzer such that powers were measured only during the on-time of the signal.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 5.2.2

Test Settings

1. Span = 2 x OBW to 3 x OBW
2. RBW = 1% to 5% of the OBW
3. Number of measurement points in sweep ≥ 2 x span / RBW
4. Sweep = auto-couple (less than transmission burst duration)
5. Detector = RMS (power)
6. Trigger was set to enable power measurements only on full power bursts
7. Trace was allowed to stabilize
8. Spectrum analyzer's "Channel Power" function was used to compute the power by integrating the spectrum across the OBW of the signal

Test Setup

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

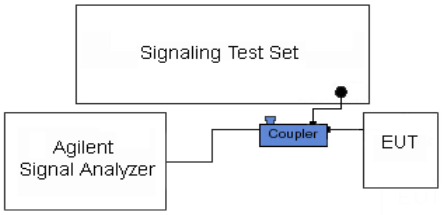


Figure 7-5. Test Instrument & Measurement Setup

Test Notes

None.

Test Case	NS	MCC	MNC	Channel BW [MHz]	Channel Number	Channel Frequency [MHz]	Modulation	RB Size	RB Offset	MPR [dB]	A-MPR [dB]	Measured Power [dBm]
1	01	311	490	5	39675	2498.5	QPSK	1	0	0	≤ 3	24.43
							16-QAM			≤ 1		23.95
							64-QAM			≤ 2		23.44
2				5	39675	2498.5	QPSK	1	9	0	0	27.23
							16-QAM			≤ 1		27.03
							64-QAM			≤ 2		26.21
3				10	39700	2501	QPSK	1	0	0	≤ 5	22.30
							16-QAM	1	0	≤ 1		21.46
							64-QAM	1	0	≤ 2		20.64
4				10	39700	2501	QPSK	20	0	0	≤ 2	24.25
							16-QAM	20	0	≤ 1		23.30
							64-QAM	20	0	≤ 2		22.25
5				10	39700	2501	QPSK	50	0	0	≤ 3	23.17
							16-QAM	50	0	≤ 1		22.26
							64-QAM	50	0	≤ 2		21.24
6				10	39700	2501	QPSK	25	20	0	≤ 1	25.18
							16-QAM	25	20	≤ 1		24.31
							64-QAM	25	20	≤ 2		23.32
7				10	39700	2501	QPSK	1	36	0	0	26.58
							16-QAM	1	36	≤ 1		25.62
							64-QAM	1	36	≤ 2		24.82
8				15	39725	2503.5	QPSK	1	0	0	≤ 5	22.39
							16-QAM	1	0	≤ 1		21.67
							64-QAM	1	0	≤ 2		21.02
9				15	39725	2503.5	QPSK	20	0	0	≤ 2	24.27
							16-QAM	20	0	≤ 1		23.30
							64-QAM	20	0	≤ 2		22.32
10				15	39725	2503.5	QPSK	75	0	0	≤ 4	22.08
							16-QAM	75	0	≤ 1		21.16
							64-QAM	75	0	≤ 2		20.18
11				15	39725	2503.5	QPSK	50	15	0	≤ 3	23.12
							16-QAM	50	15	≤ 1		22.19
							64-QAM	50	15	≤ 2		21.19
12				15	39725	2503.5	QPSK	1	60	0	0	26.54
							16-QAM	1	60	≤ 1		25.57
							64-QAM	1	60	≤ 2		25.14
13				20	39750	2506	QPSK	1	0	0	≤ 5	22.46
							16-QAM	1	0	≤ 1		21.55
							64-QAM	1	0	≤ 2		21.05
14				20	39750	2506	QPSK	20	0	0	≤ 2	24.28
							16-QAM	20	0	≤ 1		23.49
							64-QAM	20	0	≤ 2		22.43
15				20	39750	2506	QPSK	100	0	0	≤ 4	22.31
							16-QAM	100	0	≤ 1		21.36
							64-QAM	100	0	≤ 2		20.41
16				20	39750	2506	QPSK	75	24	0	≤ 3	23.24
							16-QAM	75	24	≤ 1		22.40
							64-QAM	75	24	≤ 2		21.37
17				20	39750	2506	QPSK	1	77	0	0	26.53
							16-QAM	1	77	≤ 1		25.79
							64-QAM	1	77	≤ 2		25.3
18	01	312	530	5	39675	2498.5	QPSK	1	0	0	≤ 3	24.34
							16-QAM			≤ 1		23.68
							64-QAM			≤ 2		22.48
19	01	001	01	5	39675	2498.5	QPSK	1	0	0	0	27.31
							16-QAM			≤ 1		26.51
							64-QAM			≤ 2		25.4

Table 7-3. A-MPR Conducted Power Measurements

7.7 Uplink Carrier Aggregation

§27.53(m)

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 41, the minimum permissible attenuation level of any spurious emission is 55 + $log_{10}(P_{[Watts]})$.

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.

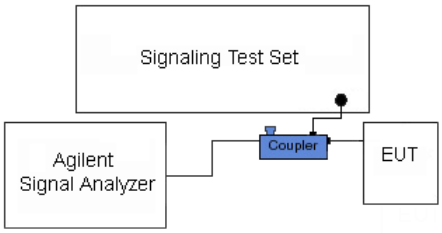


Figure 7-6. Test Instrument & Measurement Setup

Test Notes

1. Uplink carrier aggregation is only supported in this EUT while operating in Power Class 3.

2. 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.

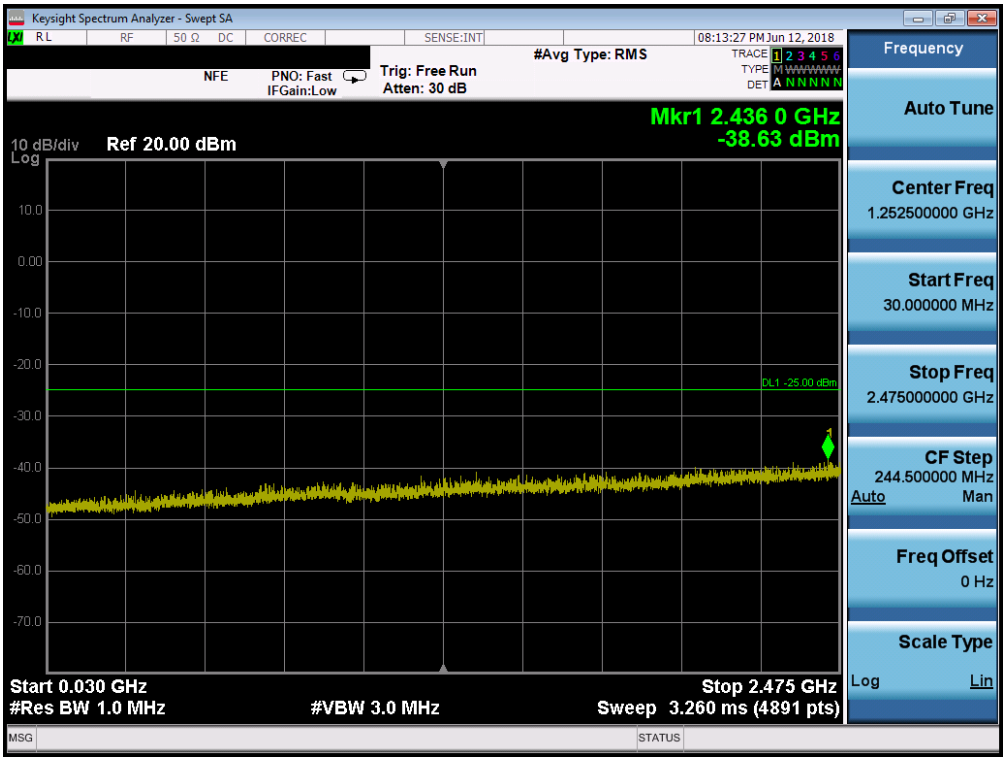
3. Compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater for frequencies less than 1 GHz and 1 MHz or greater for frequencies greater than 1 GHz. However, in the 1 MHz bands immediately outside and adjacent to the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

Power State	PCC							SCC							Power
	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	ULCA Tx.Power (dBm)
Max	LTE B41	10	39700	2501	QPSK	1	49	LTE B41	20	39844	2515.4	QPSK	1	0	22.06
Max	LTE B41	10	40620	2593	QPSK	1	49	LTE B41	20	40764	2607.4	QPSK	1	0	21.33
Max	LTE B41	20	41396	2670.6	QPSK	1	99	LTE B41	10	41540	2685	QPSK	1	0	23.49
Max	LTE B41	15	39725	2503.5	QPSK	1	74	LTE B41	15	39875	2518.5	QPSK	1	0	24.18
Max	LTE B41	15	39725	2503.5	QPSK	1	74	LTE B41	20	39896	2520.6	QPSK	1	0	23.28
Max	LTE B41	15	40620	2593	QPSK	1	74	LTE B41	15	40770	2608	QPSK	1	0	23.45
Max	LTE B41	15	40620	2593	QPSK	1	74	LTE B41	20	40791	2610.1	QPSK	1	0	22.48
Max	LTE B41	15	41365	2667.5	QPSK	1	74	LTE B41	15	41515	2682.5	QPSK	1	0	14.84
Max	LTE B41	20	41344	2665.4	QPSK	1	99	LTE B41	15	41515	2682.5	QPSK	1	0	24.57
Max	LTE B41	20	39750	2506	QPSK	1	99	LTE B41	10	39894	2520.4	QPSK	1	0	23.45
Max	LTE B41	20	39750	2506	QPSK	1	99	LTE B41	15	39921	2523.1	QPSK	1	0	23.58
Max	LTE B41	20	39750	2506	QPSK	1	99	LTE B41	20	39948	2525.8	QPSK	1	0	22.86
Max	LTE B41	20	40620	2593	QPSK	1	99	LTE B41	10	40764	2607.4	QPSK	1	0	22.35
Max	LTE B41	20	40620	2593	QPSK	1	99	LTE B41	15	40791	2610.1	QPSK	1	0	21.40
Max	LTE B41	20	40620	2593	QPSK	1	99	LTE B41	20	40818	2612.8	QPSK	1	0	**20.88**
Max	LTE B41	10	41346	2665.6	QPSK	1	49	LTE B41	20	41490	2680	QPSK	1	0	24.32
Max	LTE B41	15	41319	2662.9	QPSK	1	74	LTE B41	20	41490	2680	QPSK	1	0	20.82
Max	LTE B41	20	41292	2660.2	QPSK	1	99	LTE B41	20	41490	2680	QPSK	1	0	20.60

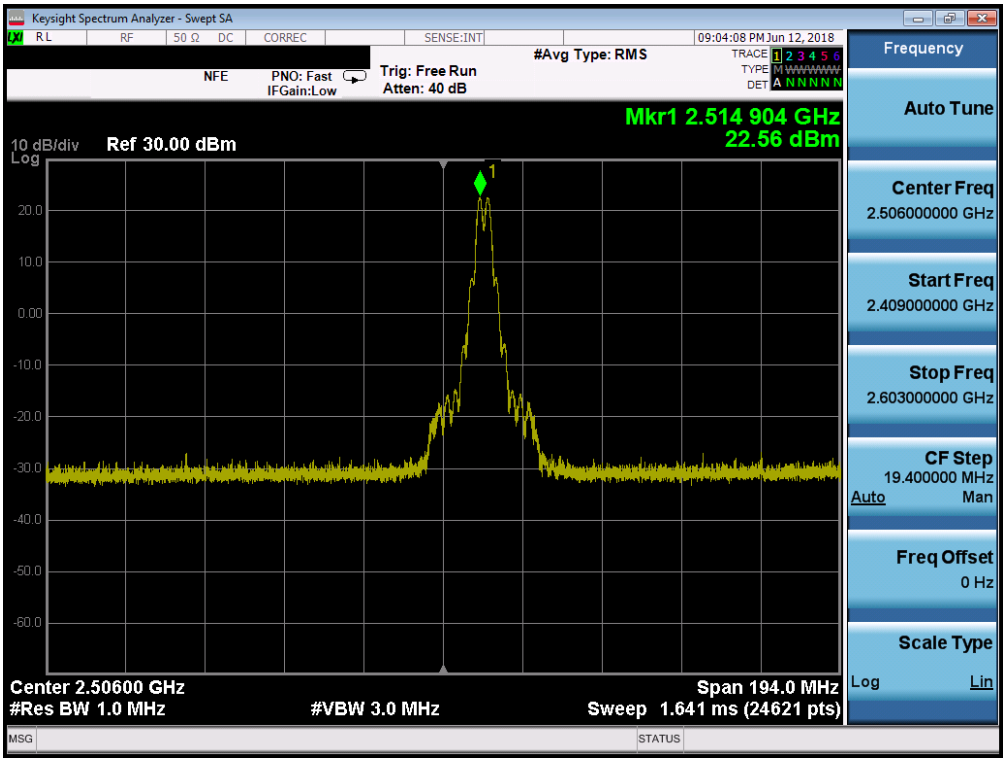
Table 7-4. Conducted Powers (B41 – PCC: RB Size 1 Offset Max SCC: RB Size 1 Offset 0)

Power State	PCC							SCC							Power
	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	ULCA Tx.Power (dBm)
Max	LTE B41	20	39750	2506	QPSK	1	0	LTE B41	20	39948	2525.8	QPSK	1	0	18.77
Max	LTE B41	20	39750	2506	16-QAM	1	0	LTE B41	20	39948	2525.8	16-QAM	1	0	18.26
Max	LTE B41	20	39750	2506	64-QAM	1	0	LTE B41	20	39948	2525.8	64-QAM	1	0	18.02
Max	LTE B41	20	39750	2506	QPSK	1	99	LTE B41	20	39948	2525.8	QPSK	1	99	18.60
Max	LTE B41	20	39750	2506	QPSK	1	0	LTE B41	20	39948	2525.8	QPSK	1	99	15.55
Max	LTE B41	20	39750	2506	QPSK	1	50	LTE B41	20	39948	2525.8	QPSK	1	50	17.52
Max	LTE B41	20	39750	2506	QPSK	1	99	LTE B41	20	39948	2525.8	QPSK	1	0	23.48
Max	LTE B41	20	39750	2506	QPSK	100	0	LTE B41	20	39948	2525.8	QPSK	100	0	21.27
Max	LTE B41	20	39750	2506	16-QAM	100	0	LTE B41	20	39948	2525.8	16-QAM	100	0	20.06
Max	LTE B41	20	39750	2506	64-QAM	100	0	LTE B41	20	39948	2525.8	64-QAM	100	0	20.03

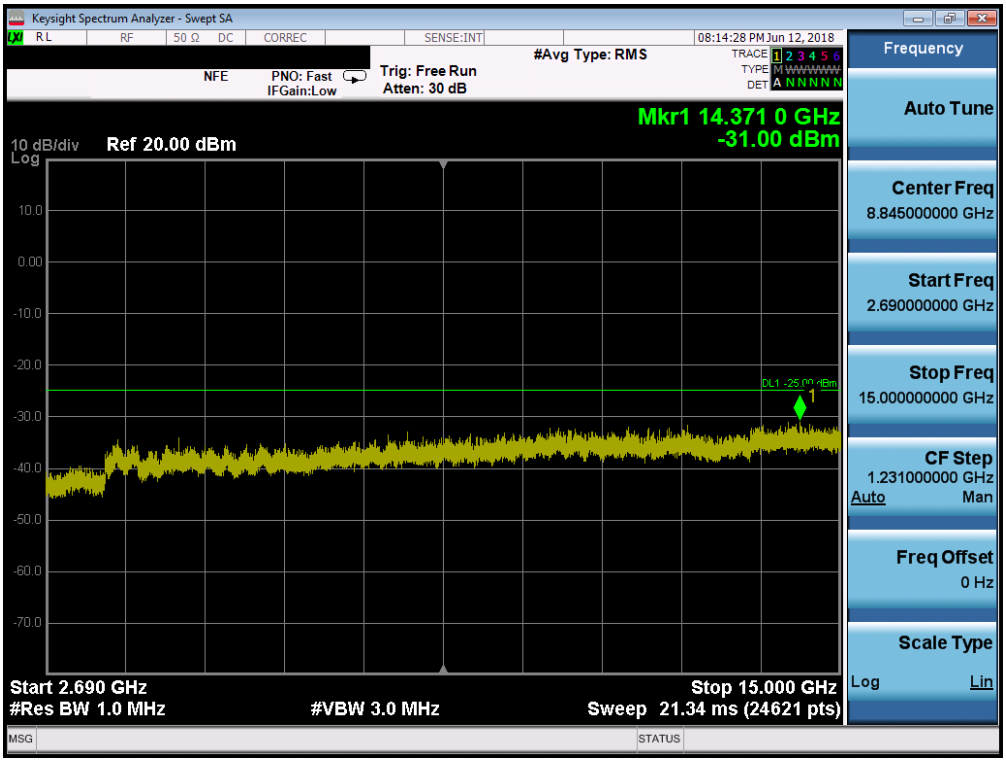
Table 7-5. Conducted Powers (B41 with Various Combinations for 20MHz Channel Bandwidth)



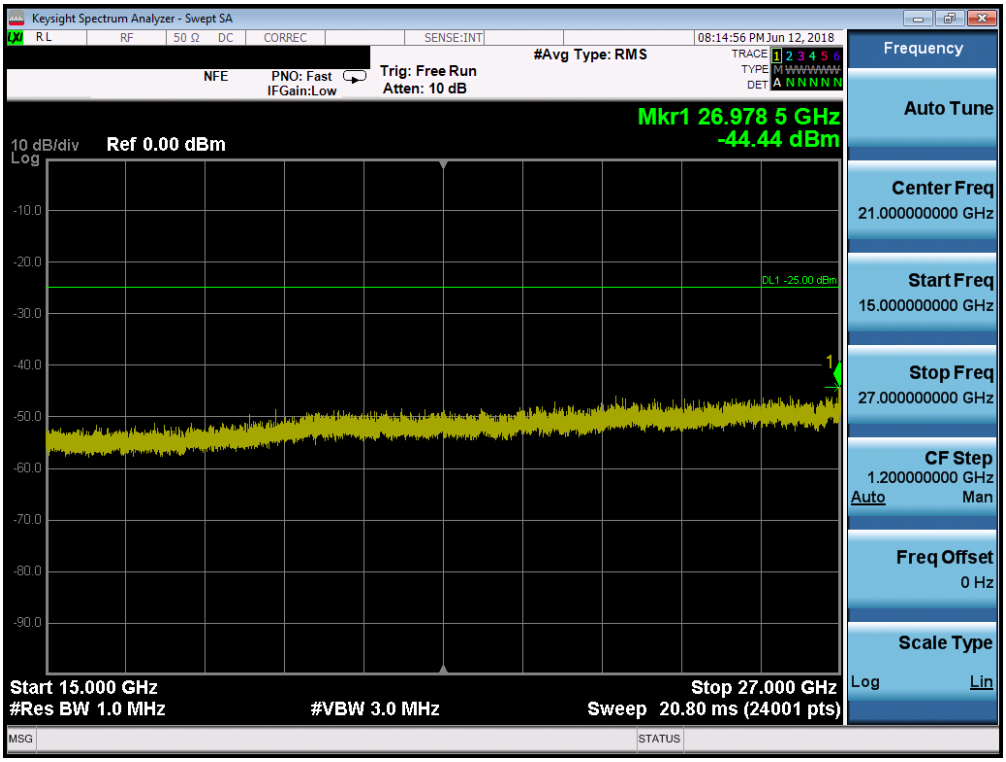
Plot 7-343. Conducted Spurious Plot (Band 41 – 20.0MHz QPSK – PCC 1/99 SCC 1/0 – Low Channel)



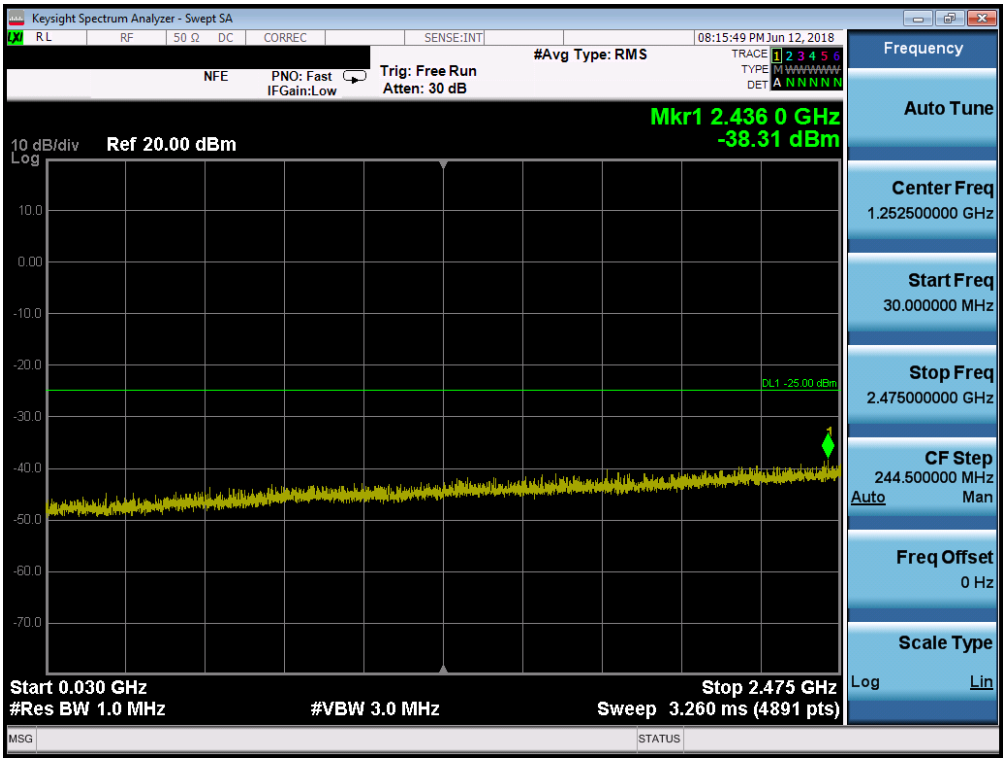
Plot 7-344. Conducted Spurious Plot (Band 41 – 20.0MHz QPSK – PCC 1/99 SCC 1/0 – Low Channel)



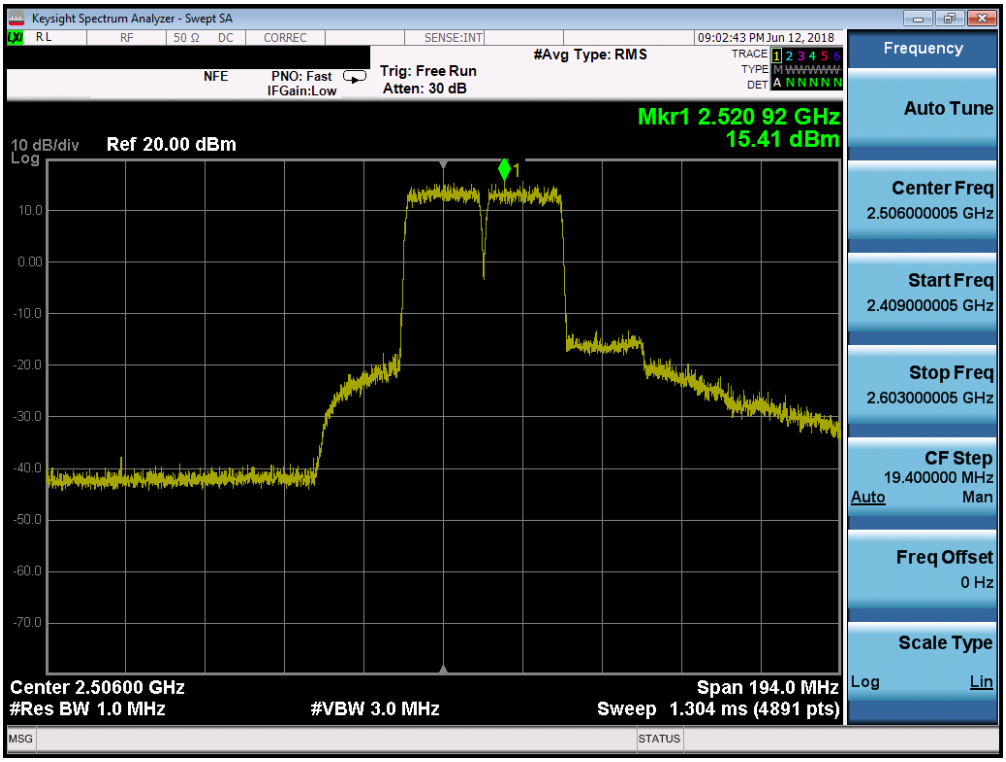
Plot 7-345. Conducted Spurious Plot (Band 41 – 20.0MHz QPSK – PCC 1/99 SCC 1/0 – Low Channel)



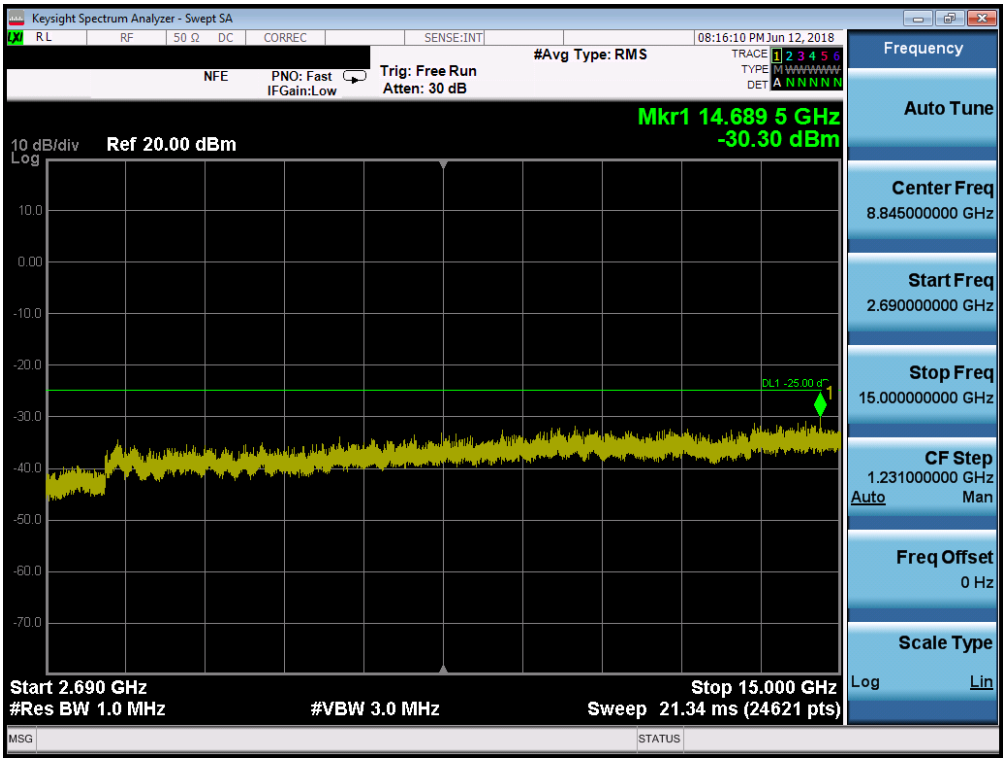
Plot 7-346. Conducted Spurious Plot (Band 41 – 20.0MHz QPSK – PCC 1/99 SCC 1/0 – Low Channel)



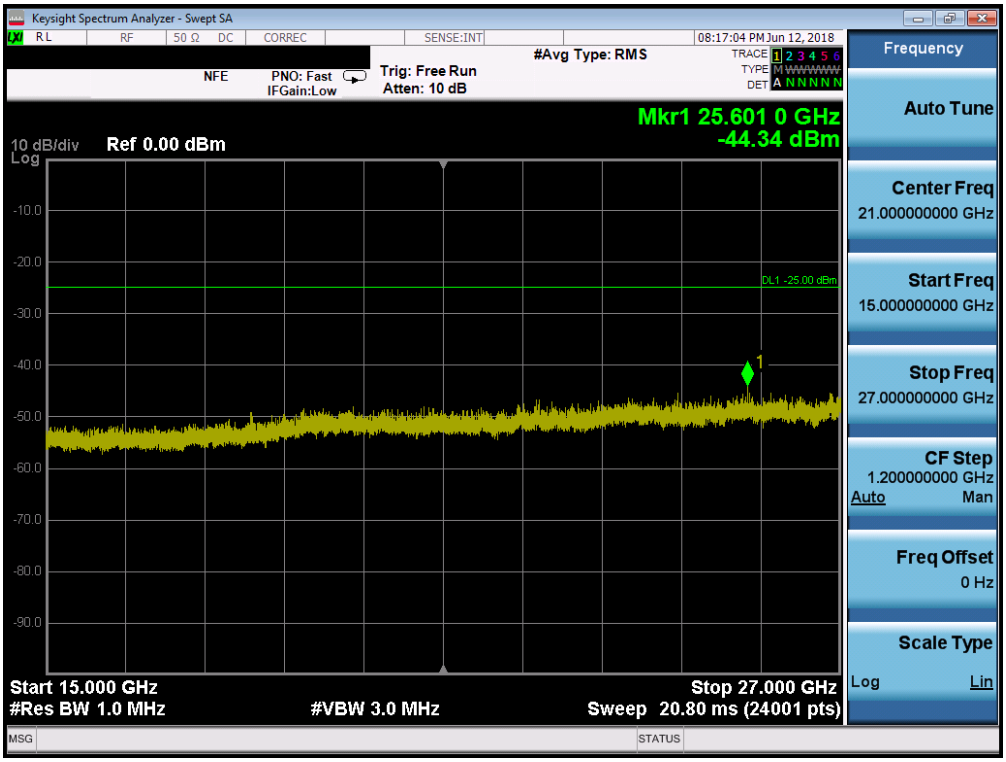
Plot 7-347. Conducted Spurious Plot (Band 41 – 20.0MHz QPSK – PCC 100/0 SCC 100/0 – Low Channel)



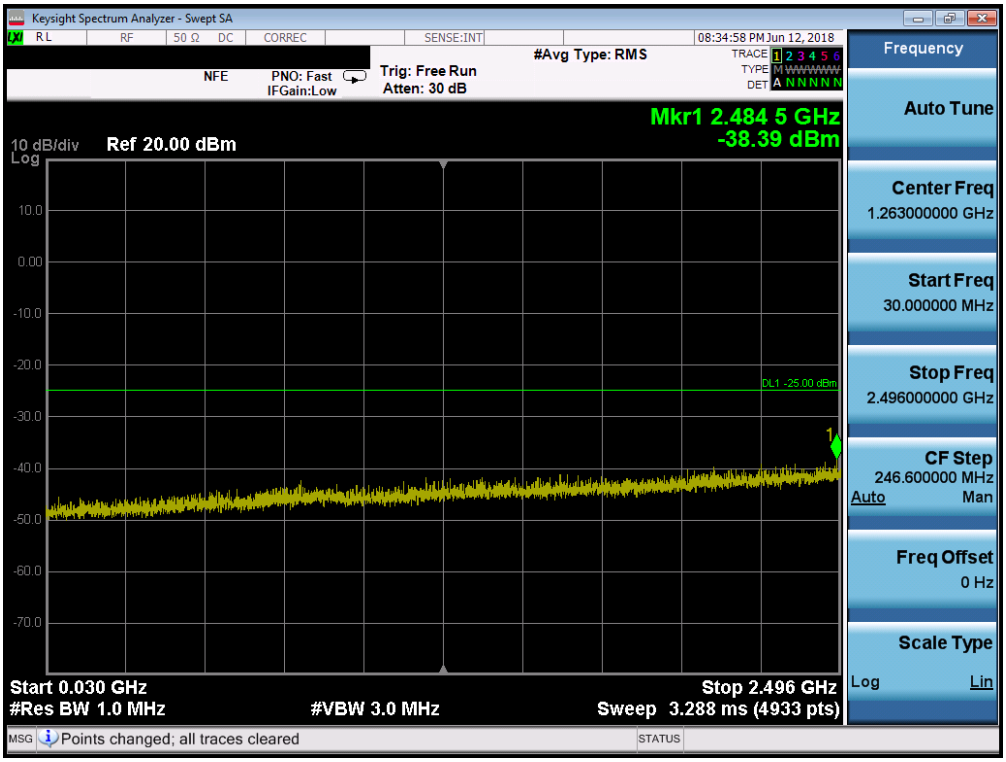
Plot 7-348. Conducted Spurious Plot (Band 41 – 20.0MHz QPSK – PCC 100/0 SCC 100/0 – Low Channel)



Plot 7-349. Conducted Spurious Plot (Band 41 – 20.0MHz QPSK – PCC 100/0 SCC 100/0 – Low Channel)



Plot 7-350. Conducted Spurious Plot (Band 41 – 20.0MHz QPSK – PCC 100/0 SCC 100/0 – Low Channel)



Plot 7-351. Conducted Spurious Plot (Band 41 – 20.0MHz QPSK – PCC 1/99 SCC 1/0 – Mid Channel)