



Plot 7-328. Upper Band Edge Plot (Band 25 - 20.0MHz QPSK - RB Size 100)



Plot 7-329. Upper Extended Band Edge Plot (Band 25 – 20.0MHz QPSK – RB Size 100)

FCC ID: BCGA2069	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 104 of 422
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### Band 30



Plot 7-330. Lower Band Edge Plot (Band 30 - 5.0MHz QPSK - RB Size 25)



Plot 7-331. Lower Extended Band Edge Plot (Band 30 - 5.0MHz QPSK - RB Size 25)

FCC ID: BCGA2069	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dogo 105 of 422
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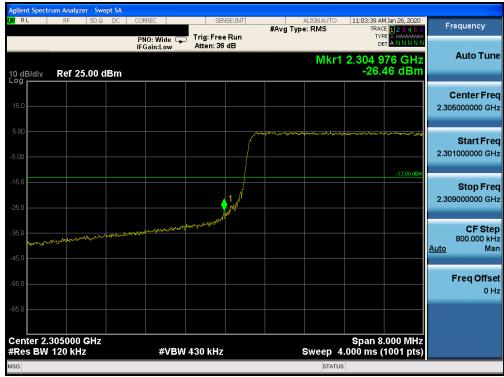
Plot 7-332. Upper Band Edge Plot (Band 30 - 5.0MHz QPSK - RB Size 25)



Plot 7-333. Upper Extended Band Edge Plot (Band 30 - 5.0MHz QPSK - RB Size 25)

FCC ID: BCGA2069	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-334. Lower Band Edge Plot (Band 30 - 10.0MHz QPSK - RB Size 50)



Plot 7-335. Lower Extended Band Edge Plot (Band 30 - 10.0MHz QPSK - RB Size 50)

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Plot 7-336. Upper Band Edge Plot (Band 30 - 10.0MHz QPSK - RB Size 50)

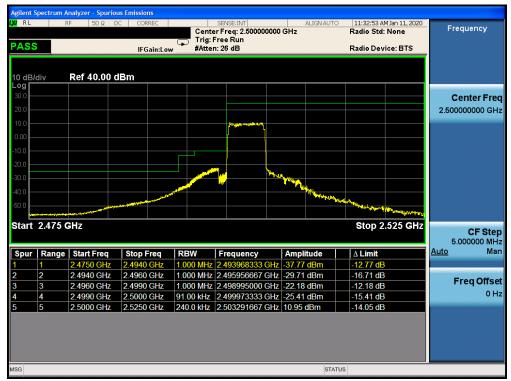


Plot 7-337. Upper Extended Band Edge Plot (Band 30 - 10.0MHz QPSK - RB Size 50)

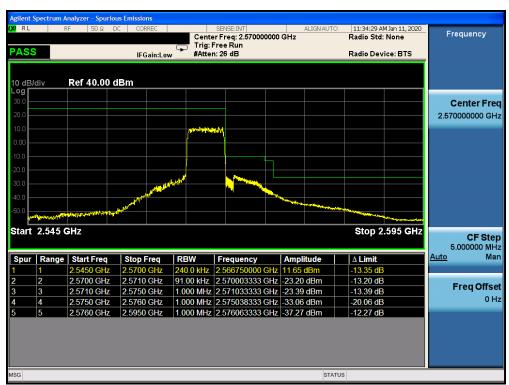
FCC ID: BCGA2069	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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### Band 7



Plot 7-338. Lower ACP Plot (Band 7 - 5.0MHz QPSK - RB Size 25)



Plot 7-339. Upper ACP Plot (Band 7 - 5.0MHz QPSK - RB Size 25)

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Plot 7-340. Lower ACP Plot (Band 7 - 10.0MHz QPSK - RB Size 50)



Plot 7-341. Upper ACP Plot (Band 7 - 10.0MHz QPSK - RB Size 50)

FCC ID: BCGA2069	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Plot 7-342. Lower ACP Plot (Band 7 - 15.0MHz QPSK - RB Size 75)



Plot 7-343. Upper ACP Plot (Band 7 - 15.0MHz QPSK - RB Size 75)

FCC ID: BCGA2069	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Plot 7-344. Lower ACP Plot (Band 7 - 20.0MHz QPSK - RB Size 100)



Plot 7-345. Upper ACP Plot (Band 7 - 20.0MHz QPSK - RB Size 100)

FCC ID: BCGA2069	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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#### Band 41



Plot 7-346. Lower ACP Plot (Band 41 - 5.0MHz QPSK - RB Size 25)



Plot 7-347. Upper ACP Plot (Band 41 - 5.0MHz QPSK - RB Size 25)

FCC ID: BCGA2069	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-348. Lower ACP Plot (Band 41 - 10.0MHz QPSK - RB Size 50)



Plot 7-349. Upper ACP Plot (Band 41 - 10.0MHz QPSK - RB Size 50)

FCC ID: BCGA2069	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-350. Lower ACP Plot (Band 41 - 15.0MHz QPSK - RB Size 75)



Plot 7-351. Upper ACP Plot (Band 41 - 15.0MHz QPSK - RB Size 75)

FCC ID: BCGA2069	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Plot 7-352. Lower ACP Plot (Band 41 - 20.0MHz QPSK - RB Size 100)



Plot 7-353. Upper ACP Plot (Band 41 - 20.0MHz QPSK - RB Size 100)

FCC ID: BCGA2069	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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# 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 ≥ OBW or specified reference bandwidth
- 4. The signal analyzer was set to collect one million samples to generate the CCDF curve
- 5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

## **Test Setup**

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



Figure 7-4. Test Instrument & Measurement Setup

### **Test Notes**

- 1. All ports were tested and only the worst case data were reported.
- 2. Refer to Table 2-1 Section 2.3 of this test report for correlation between Antennas and Ports.

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101012110001001200	12,10,2010 02,21,2020	Tablet Device	



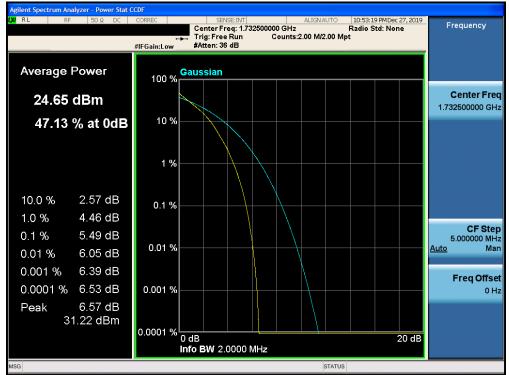
LTE Band 4	Mode	BW (MHz)	Modulation	Average Power	PAR at 0.1% [dB]	Limit [dB]	Margin [dB]
LTE Band 4 1.4 160AM 22.72 6.53 13 6.47  LTE Band 4 3 0.PSK 24.66 5.66 13 -7.34  LTE Band 4 3 160AM 22.87 6.54 13 6.66  LTE Band 4 3 640AM 22.88 6.54 13 6.66  LTE Band 4 3 640AM 22.88 6.54 13 6.66  LTE Band 4 5 60AM 22.88 6.54 13 6.62  LTE Band 4 5 160AM 22.71 6.28 13 7.36  LTE Band 4 5 160AM 22.71 6.28 13 -6.72  LTE Band 4 5 160AM 22.70 6.51 13 6.89  LTE Band 4 10 QPSK 24.70 5.54 13 -7.46  LTE Band 4 10 GPSK 24.70 5.54 13 -7.46  LTE Band 4 10 GPSK 24.77 5.48 13 -7.52  LTE Band 4 10 GPSK 24.77 5.48 13 -7.52  LTE Band 4 15 GPSK 24.77 5.48 13 -7.52  LTE Band 4 15 GPSK 24.77 5.48 13 -7.52  LTE Band 4 15 GPSK 24.77 5.48 13 -7.52  LTE Band 4 15 GPSK 24.77 5.48 13 -7.52  LTE Band 4 15 GPSK 24.77 5.48 13 -7.52  LTE Band 4 20 GPSK 24.77 5.48 13 -7.52  LTE Band 4 20 GPSK 24.77 5.48 13 -7.52  LTE Band 5 6 1.4 GPSK 24.77 5.48 13 -7.52  LTE Band 6 1.4 GPSK 24.77 5.48 13 -7.52  LTE Band 6 1.4 GPSK 24.77 5.48 13 -7.52  LTE Band 6 1.4 GPSK 24.77 5.48 13 -7.52  LTE Band 6 1.4 GPSK 24.77 5.48 13 -7.52  LTE Band 6 1.4 GPSK 24.77 5.48 13 -7.52  LTE Band 6 1.4 GPSK 24.77 5.48 13 -7.52  LTE Band 6 1.4 GPSK 24.77 5.48 13 -7.52  LTE Band 6 1.4 GPSK 24.77 5.48 13 -7.52  LTE Band 6 1.4 GPSK 24.77 5.48 13 -7.52  LTE Band 6 1.4 GPSK 24.77 5.48 13 -7.56  LTE Band 6 1.4 GPSK 24.77 5.48 13 -7.56  LTE Band 6 1.4 GPSK 24.72 5.22 13 -7.78  LTE Band 6 1.4 GPSK 24.72 5.22 13 -7.78  LTE Band 6 6 1.4 GPSK 24.72 5.22 13 -7.78  LTE Band 6 6 1.4 GPSK 24.72 5.22 13 -7.78  LTE Band 6 6 1.4 GPSK 24.73 5.49 13 -7.66  LTE Band 6 6 1.4 GPSK 24.79 5.49 13 -7.56  LTE Band 6 6 1.4 GPSK 24.79 5.49 13 -7.56  LTE Band 6 6 1.4 GPSK 24.79 5.49 13 -7.56  LTE Band 6 6 1.4 GPSK 24.79 5.49 13 -7.56  LTE Band 6 6 1.4 GPSK 24.79 5.49 13 -7.56  LTE Band 6 6 1.4 GPSK 24.79 5.49 13 -7.56  LTE Band 6 6 1.4 GPSK 24.79 5.49 13 -7.76  LTE Band 6 6 1.4 GPSK 24.79 5.49 13 -7.76  LTE Band 6 6 1.4 GPSK 24.79 5.49 13 -7.76  LTE Band 6 6 1.4 GPSK 24.79 5.49 13 -7.76  LTE Band 6 6 1.4 GPSK 24.79 5.49 13 -7.76  LTE Band 6 7 GPSK 24.79 5.49 13 -7.76  LTE Band 6 7 GPSK 24.79 5.49 13 -7.				[dBm]			
LTE Band 4							
LTE Band 4 3 190AM 23.70 6.34 13 6.66 LTE Band 4 3 190AM 22.87 6.54 13 6.66 LTE Band 4 3 640AM 22.88 6.54 13 6.66 LTE Band 4 5 190AM 22.88 6.54 13 6.66 LTE Band 4 5 190AM 22.88 6.52 13 7.38 LTE Band 4 5 190AM 22.71 6.28 13 7.48 LTE Band 4 5 190AM 22.71 6.51 13 6.49 LTE Band 4 6 10 OPSK 24.70 5.54 13 7.746 LTE Band 4 10 OPSK 24.70 5.54 13 7.746 LTE Band 4 10 160AM 22.71 6.53 13 6.72 LTE Band 4 10 160AM 22.71 6.53 13 6.76 12 LTE Band 4 10 640AM 22.71 6.53 13 6.746 LTE Band 4 15 OPSK 24.77 5.48 13 7.752 LTE Band 4 15 OPSK 24.77 5.48 13 7.752 LTE Band 4 15 160AM 23.80 6.10 13 6.9 LTE Band 4 15 640AM 22.82 6.41 13 6.59 LTE Band 4 15 640AM 22.82 6.41 13 7.52 LTE Band 4 20 OPSK 24.77 5.48 13 7.52 LTE Band 4 20 OPSK 24.77 5.48 13 7.52 LTE Band 4 20 OPSK 24.72 5.22 13 7.78 LTE Band 5 0.40 OPSK 24.72 5.22 13 7.78 LTE Band 6 0.14 OPSK 24.72 5.22 13 7.76 LTE Band 6 0.14 OPSK 24.72 5.22 13 7.76 LTE Band 6 0.14 OPSK 24.72 5.22 13 7.76 LTE Band 6 0.14 OPSK 24.72 5.22 13 7.76 LTE Band 6 0.14 OPSK 24.72 5.22 13 7.76 LTE Band 6 0.14 OPSK 24.78 5.49 13 7.56 LTE Band 6 0.14 OPSK 24.78 5.49 13 7.56 LTE Band 6 0.15 OPSK 24.78 5.49 13 7.76 LTE Band 6 0.15 OPSK 24.89 5.49 13 7.76 LTE Band 6 0.15 OPSK 24.89 5.49 13 7.76 LTE Band 6 0.15 OPSK 24.89 5.49 13 7.76 LTE Band 6 0.15 OPSK 24.89 5.49 13 7.76 LTE Band 6 0.15 OPSK 24.89 5.49 13 7.76 LTE Band 6 0.15 OPSK 24.89 5.49 13 7.76 LTE Band 6 0.15 OPSK 24.89 5.49 13 7.76 LTE Band 6 0.15 OPSK 24.89 5.49 13 7.76 LTE Band 6 0.15 OPSK 24.89 5.49 13 7.76 LTE Band 6 0.15 OPSK 24.78 5.42 13 7.78 LTE Band 6 0.15 OPSK 24.78 5.49 13 7.76 LTE Band 6 0.15 OPSK 24.78 5.49 13 7.76 LTE Band 6 0.15 OPSK 24.78 5.49 13 7.76 LTE Band 6 0.15 OPSK 24.78 5.49 13 7.76 LTE Band 6 0.15 OPSK 24.78 5.49 13 7.76 LTE Band 6 0.15 OPSK 24.89 5.41 13 7.76 LTE Band 6 0.15 OPSK 24.89 5.41 13 7.76 LTE Band 6 0.15 OPSK 24.89 5.41 13 7.76 LTE Band 6 0.15 OPSK 24.89 5.51 13 7.78 LTE Band 6 0.15 OPSK 24.89 5.51 13 7.78 LTE Band 6 0.15 OPSK 24.89 5.51 13 7.78 LTE Band 6 0.15 OPSK 24.89 5.71 13 7.72 LTE Band 2 1.4 OPSK 24.89 5.57							
LTE Band 4							
LTE Band 4							
LTE Band 4 5 160AM 23.71 6.28 13 -7.38  LTE Band 4 5 160AM 23.71 6.28 13 -6.29  LTE Band 4 10 0FSK 22.70 6.51 13 -6.49  LTE Band 4 10 160AM 23.73 6.22 13 -6.78  LTE Band 4 10 660AM 23.73 6.22 13 -6.78  LTE Band 4 10 660AM 23.73 6.22 13 -6.78  LTE Band 4 10 660AM 23.73 6.22 13 -6.78  LTE Band 4 15 OFSK 24.77 5.48 13 -7.52  LTE Band 4 15 160AM 23.80 6.10 13 -6.9  LTE Band 4 15 160AM 23.80 6.10 13 -6.9  LTE Band 4 15 160AM 23.80 6.10 13 -6.9  LTE Band 4 15 660AM 22.82 6.41 13 -6.59  LTE Band 4 10 660AM 23.79 6.07 13 -6.93  LTE Band 4 10 60AM 23.79 6.07 13 -6.93  LTE Band 5 20 160AM 23.79 6.07 13 -6.93  LTE Band 6 1.4 OPSK 24.77 5.48 13 -7.52  LTE Band 6 1.4 OPSK 24.72 5.22 13 -7.78  LTE Band 6 1.4 OPSK 24.72 5.22 13 -7.78  LTE Band 6 1.4 ISOAM 23.81 5.94 13 -7.06  LTE Band 6 1.4 ISOAM 23.81 5.94 13 -7.06  LTE Band 6 1.4 GOAM 22.80 6.41 13 -6.56  LTE Band 6 1.4 GOAM 22.81 6.39 13 -6.61  LTE Band 6 1.4 GOAM 22.81 6.39 13 -6.61  LTE Band 6 1.4 GOAM 22.81 6.39 13 -6.61  LTE Band 6 1.5 GOAM 22.81 6.39 13 -6.61  LTE Band 6 6 1.4 GOAM 22.81 6.39 13 -7.51  LTE Band 6 6 1 6 GOAM 22.77 6.45 13 -6.55  LTE Band 6 6 5 GOPSK 24.76 5.42 13 -7.58  LTE Band 6 6 5 GOPSK 24.76 5.42 13 -7.58  LTE Band 6 6 10 OPSK 24.77 5.34 13 -7.66  LTE Band 6 6 5 GOAM 23.80 6.09 13 -6.91  LTE Band 6 6 10 GOAM 23.81 6.04 13 -6.55  LTE Band 6 6 10 GOAM 23.81 6.04 13 -6.55  LTE Band 6 6 10 GOAM 23.80 6.09 13 -6.91  LTE Band 6 6 10 GOAM 23.80 6.09 13 -6.91  LTE Band 6 6 10 GOAM 23.80 6.09 13 -6.91  LTE Band 6 6 10 GOAM 23.80 6.09 13 -6.91  LTE Band 6 6 10 GOAM 23.80 6.09 13 -6.91  LTE Band 6 6 10 GOAM 23.80 6.00 13 -6.91  LTE Band 6 6 10 GOAM 23.80 6.00 13 -6.91  LTE Band 6 6 10 GOAM 23.80 6.00 13 -6.91  LTE Band 6 6 10 GOAM 23.80 6.00 13 -6.91  LTE Band 6 6 10 GOAM 23.80 6.00 13 -6.91  LTE Band 6 6 10 GOAM 23.80 6.00 13 -6.91  LTE Band 6 6 15 GOAM 23.80 6.00 13 -6.91  LTE Band 6 6 10 GOAM 23.80 6.00 13 -6.91  LTE Band 6 6 15 GOAM 23.80 6.00 13 -6.91  LTE Band 6 6 10 GOAM 23.80 6.00 13 -6.91  LTE Band 6 6 10 GOAM 23.80 6.00 13 -6.91  LTE Band 2 10 GOAM							
LTE Band 4 5 640AM 22.70 6.51 13 -6.72  LTE Band 4 10 0PSK 24.70 5.54 13 7.46.2  LTE Band 4 10 160AM 22.71 6.53 13 -6.78  LTE Band 4 10 640AM 22.71 6.53 13 -6.78  LTE Band 4 15 0PSK 24.77 5.48 13 7.52  LTE Band 4 15 160AM 23.73 6.22 13 -6.78  LTE Band 4 15 160AM 23.73 6.22 13 -6.78  LTE Band 4 15 160AM 23.80 6.10 13 -6.91  LTE Band 4 15 640AM 22.82 6.41 13 -6.59  LTE Band 4 20 0PSK 24.77 5.48 13 7.52  LTE Band 4 20 160AM 23.80 6.10 13 -6.91  LTE Band 4 20 160AM 23.80 6.07 13 -6.93  LTE Band 4 20 160AM 23.80 6.07 13 -6.93  LTE Band 4 20 160AM 23.81 5.94 13 7.762  LTE Band 66 1.4 0PSK 24.72 5.22 13 7.78  LTE Band 66 1.4 160AM 23.81 5.94 13 7.06  LTE Band 66 1.4 640AM 23.81 5.94 13 7.706  LTE Band 66 1.4 640AM 23.81 6.39 13 -6.61  LTE Band 66 1.4 640AM 23.81 6.39 13 -6.61  LTE Band 66 3 160AM 23.87 6.14 13 -6.86  LTE Band 66 5 0PSK 24.79 6.45 13 -6.55  LTE Band 66 5 0PSK 24.76 5.42 13 -7.51  LTE Band 66 5 0PSK 24.76 5.42 13 -7.58  LTE Band 66 5 0PSK 24.76 5.42 13 -7.58  LTE Band 66 5 0PSK 24.76 5.42 13 -7.58  LTE Band 66 5 0PSK 24.76 5.42 13 -7.58  LTE Band 66 5 0PSK 24.76 5.42 13 -7.58  LTE Band 66 5 0PSK 24.77 5.43 13 -7.58  LTE Band 66 5 0PSK 24.77 5.43 13 -7.58  LTE Band 66 5 0PSK 24.77 5.42 13 -7.58  LTE Band 66 5 0PSK 24.77 5.42 13 -7.58  LTE Band 66 5 0PSK 24.77 5.42 13 -7.58  LTE Band 66 5 0PSK 24.77 5.42 13 -7.58  LTE Band 66 5 0PSK 24.77 5.42 13 -7.58  LTE Band 66 5 0PSK 24.77 5.47 13 -6.55  LTE Band 66 5 0PSK 24.77 5.47 13 -7.58  LTE Band 66 10 0FSK 24.77 5.47 13 -7.59  LTE Band 66 10 0FSK 24.77 5.47 13 -7.59  LTE Band 66 10 0FSK 24.77 5.47 13 -7.59  LTE Band 66 10 0FSK 24.77 5.47 13 -7.59  LTE Band 66 15 0PSK 24.77 5.47 13 -7.60  LTE Band 66 15 0PSK 24.77 5.47 13 -7.60  LTE Band 66 15 0PSK 24.77 5.47 13 -7.60  LTE Band 66 15 0PSK 24.77 5.47 13 -7.60  LTE Band 66 15 0PSK 24.77 5.47 13 -7.76  LTE Band 66 15 0PSK 24.77 5.47 13 -7.76  LTE Band 66 15 0PSK 24.77 13 13 -7.76  LTE Band 66 15 0PSK 24.77 13 13 -7.76  LTE Band 26 10 0FSK 24.77 13 13 -7.76  LTE Band 27 10 0PSK 24.77 13 13 -7.76  LTE Band 28 10 0PS							
LTE Band 4							
LTE Band 4 10 160AM 22.71 6.52 13 6.78  LTE Band 4 10 640AM 22.71 6.53 13 6.47  LTE Band 4 15 0PSK 24.77 5.48 13 -7.52  LTE Band 4 15 60AM 22.82 6.41 13 6.59  LTE Band 4 15 640AM 22.82 6.41 13 6.59  LTE Band 4 20 0PSK 24.77 5.48 13 -7.52  LTE Band 4 20 160AM 23.79 6.07 13 6.93  LTE Band 4 20 160AM 23.79 6.07 13 6.93  LTE Band 66 1.4 0PSK 24.72 5.22 13 -7.78  LTE Band 66 1.4 100AM 22.81 6.39 13 -6.69  LTE Band 66 1.4 160AM 22.81 6.39 13 -6.61  LTE Band 66 1.4 640AM 22.81 6.39 13 -6.61  LTE Band 66 3 0PSK 24.69 5.49 13 -7.51  LTE Band 66 3 160AM 22.71 6.45 13 -6.55  LTE Band 66 5 160AM 22.71 6.45 13 -6.55  LTE Band 66 5 160AM 22.81 6.39 13 -6.61  LTE Band 66 5 160AM 22.71 6.45 13 -6.55  LTE Band 66 5 160AM 23.81 6.99 13 -7.61  LTE Band 66 1 7 6 160AM 22.71 6.45 13 -6.55  LTE Band 66 1 7 6 160AM 23.76 6.14 13 -6.86  LTE Band 66 5 160AM 23.81 6.99 13 -7.61  LTE Band 66 5 160AM 23.81 6.99 13 -7.51  LTE Band 66 5 160AM 23.81 6.99 13 -7.51  LTE Band 66 5 160AM 23.81 6.99 13 -7.55  LTE Band 66 5 160AM 23.80 6.09 13 -6.91  LTE Band 66 10 0PSK 24.77 5.34 13 -7.66  LTE Band 66 10 160AM 23.81 6.04 13 -6.56  LTE Band 66 10 160AM 23.81 6.04 13 -6.59  LTE Band 66 10 160AM 23.81 6.04 13 -6.59  LTE Band 66 10 160AM 23.81 6.04 13 -6.59  LTE Band 66 10 60AM 23.81 6.04 13 -6.59  LTE Band 66 10 60AM 23.87 5.89 13 -7.71  LTE Band 66 15 60AM 23.87 5.89 13 -7.76  LTE Band 66 15 60AM 23.87 5.89 13 -7.76  LTE Band 66 15 60AM 23.87 5.89 13 -7.71  LTE Band 66 15 60AM 23.87 5.99 13 -7.76  LTE Band 66 15 60AM 23.87 5.99 13 -7.76  LTE Band 66 15 60AM 23.87 5.99 13 -7.76  LTE Band 66 15 60AM 23.87 5.99 13 -7.76  LTE Band 66 15 60AM 23.87 5.99 13 -7.76  LTE Band 66 15 60AM 23.87 5.99 13 -7.76  LTE Band 66 15 60AM 23.87 5.99 13 -7.76  LTE Band 66 15 60AM 23.87 5.99 13 -7.76  LTE Band 66 15 60AM 23.87 5.99 13 -7.76  LTE Band 66 15 60AM 23.86 6.31 13 -6.66  LTE Band 20 160AM 23.86 6.31 13 -6.66  LTE Band 20 160AM 23.86 6.39 13 -6.61  LTE Band 20 160AM 23.86 6.39 13 -6.61  LTE Band 20 160AM 23.86 6.39 13 -6.61  LTE Band 20 160AM 23.86 6.39 13 -6.6	LTE Band 4	5		22.70	6.51	13	
LTE Band 4 15	LTE Band 4	10	QPSK	24.70	5.54	13	-7.46
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LTE Band 66 20 QPSK 24.87 5.13 13 -7.87  LTE Band 66 20 16QAM 23.87 5.92 13 -7.08  LTE Band 66 20 64QAM 22.87 6.34 13 -6.66  LTE Band 2 1.4 QPSK 24.56 5.71 13 -7.29  LTE Band 2 1.4 16QAM 23.69 6.40 13 -6.6  LTE Band 2 1.4 64QAM 22.84 6.43 13 -6.57  LTE Band 2 3 QPSK 24.58 5.77 13 -7.23  LTE Band 2 3 16QAM 23.65 6.45 13 -6.55  LTE Band 2 3 64QAM 22.64 6.43 13 -6.55  LTE Band 2 3 64QAM 22.64 6.45 13 -6.55  LTE Band 2 5 QPSK 24.58 5.75 13 -7.25  LTE Band 2 5 16QAM 23.65 6.36 13 -6.64  LTE Band 2 5 16QAM 23.65 6.36 13 -6.65  LTE Band 2 5 16QAM 23.65 6.36 13 -6.65  LTE Band 2 5 64QAM 22.64 6.45 13 -6.55  LTE Band 2 10 QPSK 24.62 5.67 13 -7.33  LTE Band 2 10 16QAM 23.64 6.35 13 -6.65  LTE Band 2 10 64QAM 23.64 6.35 13 -6.65  LTE Band 2 10 64QAM 23.64 6.35 13 -6.65  LTE Band 2 15 GPSK 24.63 5.77 13 -7.23  LTE Band 2 10 64QAM 23.64 6.35 13 -6.65  LTE Band 2 10 64QAM 23.64 6.35 13 -6.65  LTE Band 2 15 GPSK 24.63 5.77 13 -7.23  LTE Band 2 15 GPSK 24.63 5.77 13 -7.23  LTE Band 2 15 GPSK 24.63 5.77 13 -7.23  LTE Band 2 15 GPSK 24.63 5.77 13 -7.23  LTE Band 2 15 GPSK 24.63 5.77 13 -7.23  LTE Band 2 15 GPSK 24.63 5.77 13 -7.23  LTE Band 2 15 GPSK 24.63 5.77 13 -7.23  LTE Band 2 15 GPSK 24.63 5.77 13 -7.23  LTE Band 2 15 GPSK 24.63 5.77 13 -7.23  LTE Band 2 15 GPSK 24.63 5.77 13 -7.23  LTE Band 2 15 GPSK 24.63 5.77 13 -7.23  LTE Band 2 15 GPSK 24.63 5.77 13 -7.23  LTE Band 2 15 GPSK 24.63 5.77 13 -7.24  LTE Band 2 15 GPSK 24.60 5.62 13 -6.68  LTE Band 2 15 GPSK 24.60 5.62 13 -6.68  LTE Band 2 5 1.4 GPSK 24.60 5.63 13 -6.67  LTE Band 2 5 5 GPSK 24.60 5.63 13 -6.66  LTE Band 2 5 5 GPSK 24.60 5.63 13 -6.66  LTE Band 25 1.4 GPSK 24.60 5.63 13 -6.67  LTE Band 25 1.4 GPSK 24.60 5.63 13 -6.67  LTE Band 25 1.4 GPSK 24.60 5.63 13 -7.24  LTE Band 25 1.4 GPSK 24.60 5.63 13 -7.24  LTE Band 25 1.4 GPSK 24.60 5.63 13 -7.24  LTE Band 25 1.4 GPSK 24.60 5.73 13 -7.27  LTE Band 25 1.4 GPSK 24.60 5.63 13 -7.24  LTE Band 25 1.4 GPSK 24.60 5.63 13 -7.24  LTE Band 25 10 GPSK 24.60 5.63 13 -7.27  LTE Band 25 10 GPSK 24.60 5.63 13 -7.27  LTE Band 25	LTE Band 66	15	16QAM	23.87	5.89	13	-7.11
LTE Band 66		15	64QAM	22.88	6.31	13	-6.69
LTE Band 66							
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LTE Band 2							
LTE Band 2         10         QPSK         24.62         5.67         13         -7.33           LTE Band 2         10         16QAM         23.64         6.35         13         -6.65           LTE Band 2         10         64QAM         22.67         6.52         13         -6.48           LTE Band 2         15         QPSK         24.63         5.77         13         -7.23           LTE Band 2         15         16QAM         23.65         6.28         13         -6.72           LTE Band 2         15         64QAM         22.68         6.42         13         -6.58           LTE Band 2         20         QPSK         24.62         5.52         13         -7.48           LTE Band 2         20         QPSK         24.62         5.52         13         -7.48           LTE Band 2         20         64QAM         22.66         6.38         13         -6.62           LTE Band 25         1.4         QPSK         24.60         5.62         13         -7.38           LTE Band 25         1.4         16QAM         23.69         6.40         13         -6.67           LTE Band 25         1.4         16QAM							
LTE Band 2 10 16QAM 23.64 6.35 13 -6.65  LTE Band 2 10 64QAM 22.67 6.52 13 -6.48  LTE Band 2 15 QPSK 24.63 5.77 13 -7.23  LTE Band 2 15 16QAM 23.65 6.28 13 -6.72  LTE Band 2 15 64QAM 22.68 6.42 13 -6.58  LTE Band 2 20 QPSK 24.62 5.52 13 -7.48  LTE Band 2 20 GPSK 24.62 5.52 13 -7.48  LTE Band 2 20 64QAM 23.63 6.24 13 -6.76  LTE Band 2 20 64QAM 23.66 6.38 13 -6.62  LTE Band 2 20 64QAM 23.66 6.38 13 -6.62  LTE Band 25 1.4 QPSK 24.60 5.62 13 -7.38  LTE Band 25 1.4 16QAM 23.69 6.40 13 -6.66  LTE Band 25 1.4 64QAM 22.66 6.33 13 -6.67  LTE Band 25 3 QPSK 24.61 5.76 13 -7.24  LTE Band 25 3 16QAM 23.69 6.40 13 -6.67  LTE Band 25 3 64QAM 22.64 6.49 13 -6.57  LTE Band 25 3 64QAM 23.66 6.33 13 -6.67  LTE Band 25 5 64QAM 22.64 6.49 13 -6.51  LTE Band 25 5 16QAM 23.68 6.32 13 -6.51  LTE Band 25 5 16QAM 23.68 6.32 13 -6.68  LTE Band 25 10 QPSK 24.67 5.63 13 -7.27  LTE Band 25 10 QPSK 24.67 5.63 13 -7.37  LTE Band 25 10 16QAM 23.72 6.37 13 -6.68  LTE Band 25 10 16QAM 23.72 6.37 13 -6.63  LTE Band 25 15 GPSK 24.61 5.80 13 -7.37  LTE Band 25 15 GPSK 24.61 5.80 13 -7.37  LTE Band 25 15 GPSK 24.61 5.80 13 -7.27  LTE Band 25 15 GPSK 24.61 5.80 13 -7.27  LTE Band 25 15 GPSK 24.61 5.80 13 -7.27  LTE Band 25 15 GPSK 24.61 5.80 13 -7.27  LTE Band 25 15 GPSK 24.61 5.80 13 -7.24  LTE Band 25 15 GPSK 24.61 5.80 13 -7.24  LTE Band 25 15 GPSK 24.61 5.80 13 -7.24  LTE Band 25 15 GPSK 24.61 5.80 13 -7.24  LTE Band 25 15 GPSK 24.61 5.80 13 -7.24  LTE Band 25 15 GPSK 24.61 5.80 13 -7.24  LTE Band 25 15 GPSK 24.61 5.80 13 -7.24  LTE Band 25 15 GPSK 24.61 5.80 13 -7.24  LTE Band 25 15 GPSK 24.61 5.80 13 -7.24  LTE Band 25 15 GPSK 24.61 5.80 13 -7.24  LTE Band 25 15 GPSK 24.61 5.80 13 -7.24  LTE Band 25 15 GPSK 24.64 5.56 13 -7.44  LTE Band 25 20 GPSK 24.64 5.56 13 -7.44  LTE Band 25 20 GPSK 24.64 5.56 13 -7.44  LTE Band 25 20 GPSK 24.64 5.56 13 -7.44  LTE Band 25 20 GPSK 24.64 5.56 13 -7.44							
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LTE Band 2         15         64QAM         22.68         6.42         13         -6.58           LTE Band 2         20         QPSK         24.62         5.52         13         -7.48           LTE Band 2         20         16QAM         23.63         6.24         13         -6.76           LTE Band 2         20         64QAM         22.66         6.38         13         -6.62           LTE Band 25         1.4         QPSK         24.60         5.62         13         -7.38           LTE Band 25         1.4         16QAM         23.69         6.40         13         -6.6           LTE Band 25         1.4         64QAM         22.64         6.43         13         -6.67           LTE Band 25         3         16QAM         23.66         6.33         13         -6.67           LTE Band 25         3         16QAM         23.66         6.33         13         -6.67           LTE Band 25         3         64QAM         22.64         6.49         13         -6.51           LTE Band 25         5         16QAM         23.66         6.32         13         -6.68           LTE Band 25         5         16QAM							
LTE Band 2         20         QPSK         24.62         5.52         13         -7.48           LTE Band 2         20         16QAM         23.63         6.24         13         -6.76           LTE Band 2         20         64QAM         22.66         6.38         13         -6.62           LTE Band 25         1.4         QPSK         24.60         5.62         13         -7.38           LTE Band 25         1.4         16QAM         23.69         6.40         13         -6.6           LTE Band 25         1.4         64QAM         22.64         6.43         13         -6.67           LTE Band 25         3         QPSK         24.61         5.76         13         -7.24           LTE Band 25         3         16QAM         23.66         6.33         13         -6.67           LTE Band 25         3         64QAM         22.64         6.49         13         -6.51           LTE Band 25         5         QPSK         24.60         5.73         13         -7.27           LTE Band 25         5         16QAM         23.68         6.32         13         -6.68           LTE Band 25         5         64QAM							
LTE Band 2         20         16QAM         23.63         6.24         13         -6.76           LTE Band 2         20         64QAM         22.66         6.38         13         -6.62           LTE Band 25         1.4         QPSK         24.60         5.62         13         -7.38           LTE Band 25         1.4         16QAM         23.69         6.40         13         -6.6           LTE Band 25         1.4         64QAM         22.64         6.43         13         -6.57           LTE Band 25         3         QPSK         24.61         5.76         13         -7.24           LTE Band 25         3         16QAM         23.66         6.33         13         -6.67           LTE Band 25         3         64QAM         22.64         6.49         13         -6.51           LTE Band 25         5         QPSK         24.60         5.73         13         -7.27           LTE Band 25         5         16QAM         23.68         6.32         13         -6.68           LTE Band 25         5         64QAM         22.70         6.47         13         -6.53           LTE Band 25         10         QPSK							
LTE Band 2         20         64QAM         22.66         6.38         13         -6.62           LTE Band 25         1.4         QPSK         24.60         5.62         13         -7.38           LTE Band 25         1.4         16QAM         23.69         6.40         13         -6.6           LTE Band 25         1.4         64QAM         22.64         6.43         13         -6.57           LTE Band 25         3         QPSK         24.61         5.76         13         -7.24           LTE Band 25         3         16QAM         23.66         6.33         13         -6.67           LTE Band 25         3         64QAM         22.64         6.49         13         -6.67           LTE Band 25         5         QPSK         24.60         5.73         13         -7.27           LTE Band 25         5         16QAM         23.68         6.32         13         -6.68           LTE Band 25         5         64QAM         22.70         6.47         13         -6.53           LTE Band 25         10         QPSK         24.67         5.63         13         -7.37           LTE Band 25         10         64QAM							
LTE Band 25         1.4         QPSK         24.60         5.62         13         -7.38           LTE Band 25         1.4         16QAM         23.69         6.40         13         -6.6           LTE Band 25         1.4         64QAM         22.64         6.43         13         -6.57           LTE Band 25         3         QPSK         24.61         5.76         13         -7.24           LTE Band 25         3         16QAM         23.66         6.33         13         -6.67           LTE Band 25         3         64QAM         22.64         6.49         13         -6.61           LTE Band 25         5         QPSK         24.60         5.73         13         -7.27           LTE Band 25         5         16QAM         23.68         6.32         13         -6.68           LTE Band 25         5         64QAM         22.70         6.47         13         -6.53           LTE Band 25         10         QPSK         24.67         5.63         13         -7.37           LTE Band 25         10         16QAM         23.72         6.37         13         -6.63           LTE Band 25         10         64QAM							
LTE Band 25							
LTE Band 25         1.4         64QAM         22.64         6.43         13         -6.57           LTE Band 25         3         QPSK         24.61         5.76         13         -7.24           LTE Band 25         3         16QAM         23.66         6.33         13         -6.67           LTE Band 25         3         64QAM         22.64         6.49         13         -6.51           LTE Band 25         5         QPSK         24.60         5.73         13         -7.27           LTE Band 25         5         16QAM         23.68         6.32         13         -6.68           LTE Band 25         5         64QAM         22.70         6.47         13         -6.53           LTE Band 25         10         QPSK         24.67         5.63         13         -7.37           LTE Band 25         10         16QAM         23.72         6.37         13         -6.63           LTE Band 25         10         64QAM         22.71         6.54         13         -6.63           LTE Band 25         15         QPSK         24.61         5.80         13         -7.2           LTE Band 25         15         16QAM							
LTE Band 25         3         QPSK         24.61         5.76         13         -7.24           LTE Band 25         3         16QAM         23.66         6.33         13         -6.67           LTE Band 25         3         64QAM         22.64         6.49         13         -6.51           LTE Band 25         5         QPSK         24.60         5.73         13         -7.27           LTE Band 25         5         16QAM         23.68         6.32         13         -6.68           LTE Band 25         5         64QAM         22.70         6.47         13         -6.53           LTE Band 25         10         QPSK         24.67         5.63         13         -7.37           LTE Band 25         10         64QAM         23.72         6.37         13         -6.63           LTE Band 25         10         64QAM         22.71         6.54         13         -6.46           LTE Band 25         15         QPSK         24.61         5.80         13         -7.2           LTE Band 25         15         16QAM         23.66         6.30         13         -6.7           LTE Band 25         15         64QAM							
LTE Band 25         3         16QAM         23.66         6.33         13         -6.67           LTE Band 25         3         64QAM         22.64         6.49         13         -6.51           LTE Band 25         5         QPSK         24.60         5.73         13         -7.27           LTE Band 25         5         16QAM         23.68         6.32         13         -6.68           LTE Band 25         5         64QAM         22.70         6.47         13         -6.53           LTE Band 25         10         QPSK         24.67         5.63         13         -7.37           LTE Band 25         10         16QAM         23.72         6.37         13         -6.63           LTE Band 25         10         64QAM         22.71         6.54         13         -6.46           LTE Band 25         15         QPSK         24.61         5.80         13         -7.2           LTE Band 25         15         16QAM         23.66         6.30         13         -6.7           LTE Band 25         15         64QAM         22.66         6.50         13         -6.5           LTE Band 25         20         QPSK							
LTE Band 25         3         64QAM         22.64         6.49         13         -6.51           LTE Band 25         5         QPSK         24.60         5.73         13         -7.27           LTE Band 25         5         16QAM         23.68         6.32         13         -6.68           LTE Band 25         5         64QAM         22.70         6.47         13         -6.53           LTE Band 25         10         QPSK         24.67         5.63         13         -7.37           LTE Band 25         10         16QAM         23.72         6.37         13         -6.63           LTE Band 25         10         64QAM         22.71         6.54         13         -6.46           LTE Band 25         15         QPSK         24.61         5.80         13         -7.2           LTE Band 25         15         16QAM         23.66         6.30         13         -6.7           LTE Band 25         15         64QAM         22.66         6.50         13         -6.5           LTE Band 25         20         QPSK         24.64         5.56         13         -7.44           LTE Band 25         20         16QAM							
LTE Band 25         5         QPSK         24.60         5.73         13         -7.27           LTE Band 25         5         16QAM         23.68         6.32         13         -6.68           LTE Band 25         5         64QAM         22.70         6.47         13         -6.53           LTE Band 25         10         QPSK         24.67         5.63         13         -7.37           LTE Band 25         10         16QAM         23.72         6.37         13         -6.63           LTE Band 25         10         64QAM         22.71         6.54         13         -6.46           LTE Band 25         15         QPSK         24.61         5.80         13         -7.2           LTE Band 25         15         16QAM         23.66         6.30         13         -6.7           LTE Band 25         15         64QAM         22.66         6.50         13         -6.5           LTE Band 25         20         QPSK         24.64         5.56         13         -7.44           LTE Band 25         20         16QAM         23.67         6.27         13         -6.73           LTE Band 25         20         64QAM							
LTE Band 25         5         16QAM         23.68         6.32         13         -6.68           LTE Band 25         5         64QAM         22.70         6.47         13         -6.53           LTE Band 25         10         QPSK         24.67         5.63         13         -7.37           LTE Band 25         10         16QAM         23.72         6.37         13         -6.63           LTE Band 25         10         64QAM         22.71         6.54         13         -6.46           LTE Band 25         15         QPSK         24.61         5.80         13         -7.2           LTE Band 25         15         16QAM         23.66         6.30         13         -6.7           LTE Band 25         15         64QAM         22.66         6.50         13         -6.5           LTE Band 25         20         QPSK         24.64         5.56         13         -7.44           LTE Band 25         20         16QAM         23.67         6.27         13         -6.73           LTE Band 25         20         64QAM         22.68         6.45         13         -6.55							
LTE Band 25         5         64QAM         22.70         6.47         13         -6.53           LTE Band 25         10         QPSK         24.67         5.63         13         -7.37           LTE Band 25         10         16QAM         23.72         6.37         13         -6.63           LTE Band 25         10         64QAM         22.71         6.54         13         -6.46           LTE Band 25         15         QPSK         24.61         5.80         13         -7.2           LTE Band 25         15         16QAM         23.66         6.30         13         -6.7           LTE Band 25         15         64QAM         22.66         6.50         13         -6.5           LTE Band 25         20         QPSK         24.64         5.56         13         -7.44           LTE Band 25         20         16QAM         23.67         6.27         13         -6.73           LTE Band 25         20         64QAM         22.68         6.45         13         -6.55							
LTE Band 25         10         QPSK         24.67         5.63         13         -7.37           LTE Band 25         10         16QAM         23.72         6.37         13         -6.63           LTE Band 25         10         64QAM         22.71         6.54         13         -6.46           LTE Band 25         15         QPSK         24.61         5.80         13         -7.2           LTE Band 25         15         16QAM         23.66         6.30         13         -6.7           LTE Band 25         15         64QAM         22.66         6.50         13         -6.5           LTE Band 25         20         QPSK         24.64         5.56         13         -7.44           LTE Band 25         20         16QAM         23.67         6.27         13         -6.73           LTE Band 25         20         64QAM         22.68         6.45         13         -6.55							
LTE Band 25         10         64QAM         22.71         6.54         13         -6.46           LTE Band 25         15         QPSK         24.61         5.80         13         -7.2           LTE Band 25         15         16QAM         23.66         6.30         13         -6.7           LTE Band 25         15         64QAM         22.66         6.50         13         -6.5           LTE Band 25         20         QPSK         24.64         5.56         13         -7.44           LTE Band 25         20         16QAM         23.67         6.27         13         -6.73           LTE Band 25         20         64QAM         22.68         6.45         13         -6.55			QPSK				
LTE Band 25         10         64QAM         22.71         6.54         13         -6.46           LTE Band 25         15         QPSK         24.61         5.80         13         -7.2           LTE Band 25         15         16QAM         23.66         6.30         13         -6.7           LTE Band 25         15         64QAM         22.66         6.50         13         -6.5           LTE Band 25         20         QPSK         24.64         5.56         13         -7.44           LTE Band 25         20         16QAM         23.67         6.27         13         -6.73           LTE Band 25         20         64QAM         22.68         6.45         13         -6.55		10			6.37	13	
LTE Band 25     15     16QAM     23.66     6.30     13     -6.7       LTE Band 25     15     64QAM     22.66     6.50     13     -6.5       LTE Band 25     20     QPSK     24.64     5.56     13     -7.44       LTE Band 25     20     16QAM     23.67     6.27     13     -6.73       LTE Band 25     20     64QAM     22.68     6.45     13     -6.55	LTE Band 25	10		22.71		13	-6.46
LTE Band 25         15         64QAM         22.66         6.50         13         -6.5           LTE Band 25         20         QPSK         24.64         5.56         13         -7.44           LTE Band 25         20         16QAM         23.67         6.27         13         -6.73           LTE Band 25         20         64QAM         22.68         6.45         13         -6.55							
LTE Band 25         20         QPSK         24.64         5.56         13         -7.44           LTE Band 25         20         16QAM         23.67         6.27         13         -6.73           LTE Band 25         20         64QAM         22.68         6.45         13         -6.55							
LTE Band 25         20         16QAM         23.67         6.27         13         -6.73           LTE Band 25         20         64QAM         22.68         6.45         13         -6.55							
LTE Band 25 20 64QAM 22.68 6.45 13 -6.55							
	LIE Band 25	•				13	-6.55

Table 7-6. PAR Results

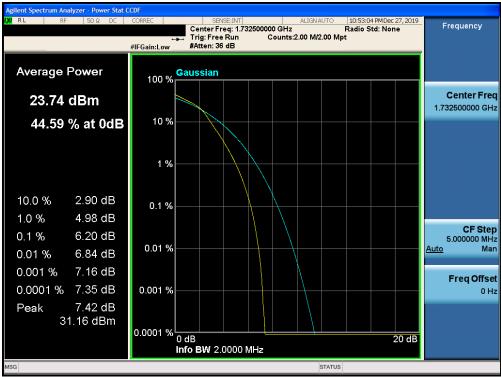
FCC ID: BCGA2069	PCTEST*	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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### Band 4



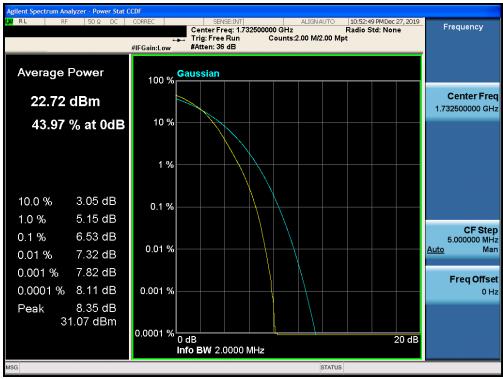
Plot 7-354. PAR Plot (Band 4 - 1.4MHz QPSK - RB Size 6)



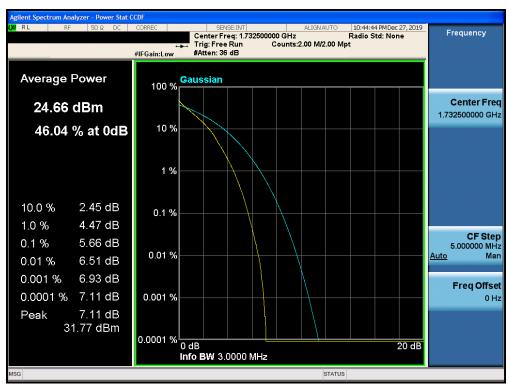
Plot 7-355. PAR Plot (Band 4 - 1.4MHz 16-QAM - RB Size 6)

FCC ID: BCGA2069	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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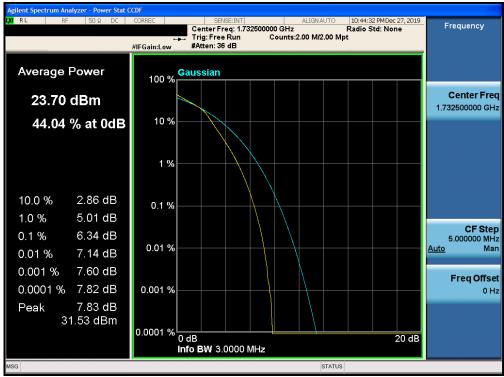
Plot 7-356. PAR Plot (Band 4 - 1.4MHz 64-QAM - RB Size 6)



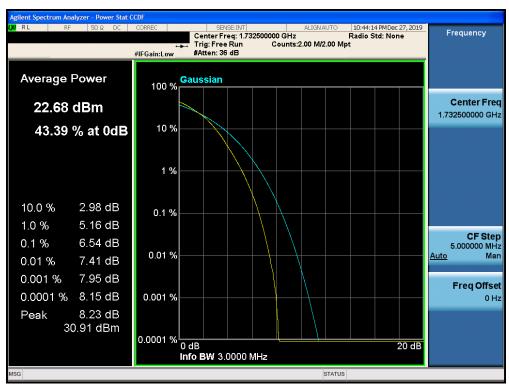
Plot 7-357. PAR Plot (Band 4 - 3.0MHz QPSK - RB Size 15)

FCC ID: BCGA2069	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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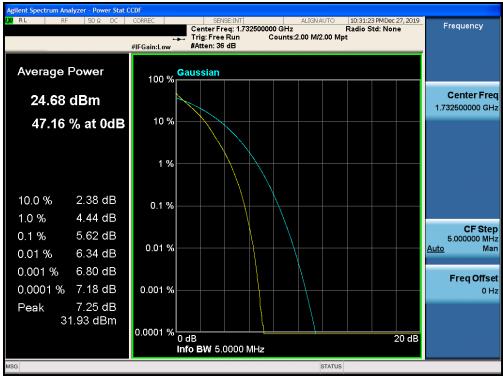
Plot 7-358. PAR Plot (Band 4 - 3.0MHz 16-QAM - RB Size 15)



Plot 7-359. PAR Plot (Band 4 - 3.0MHz 64-QAM - RB Size 15)

FCC ID: BCGA2069	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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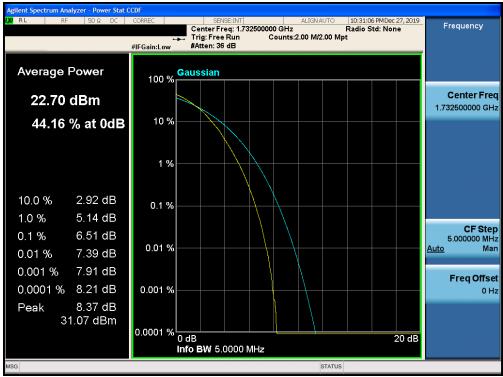
Plot 7-360. PAR Plot (Band 4 - 5.0MHz QPSK - RB Size 25)



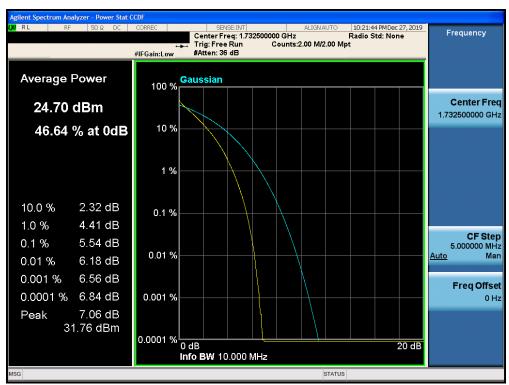
Plot 7-361. PAR Plot (Band 4 - 5.0MHz 16-QAM - RB Size 25)

FCC ID: BCGA2069	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-362. PAR Plot (Band 4 - 5.0MHz 64-QAM - RB Size 25)



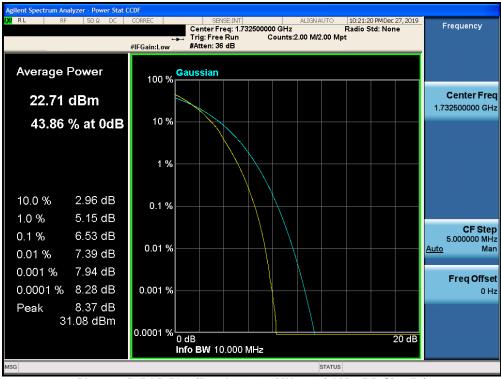
Plot 7-363. PAR Plot (Band 4 - 10.0MHz QPSK - RB Size 50)

FCC ID: BCGA2069	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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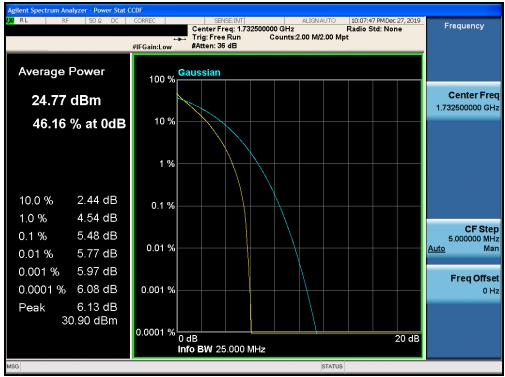
Plot 7-364. PAR Plot (Band 4 - 10.0MHz 16-QAM - RB Size 50)



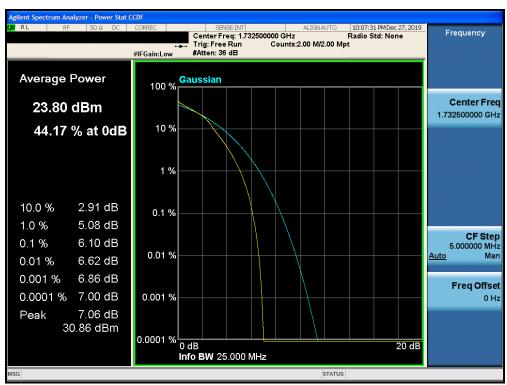
Plot 7-365. PAR Plot (Band 4 - 10.0MHz 64-QAM - RB Size 50)

FCC ID: BCGA2069	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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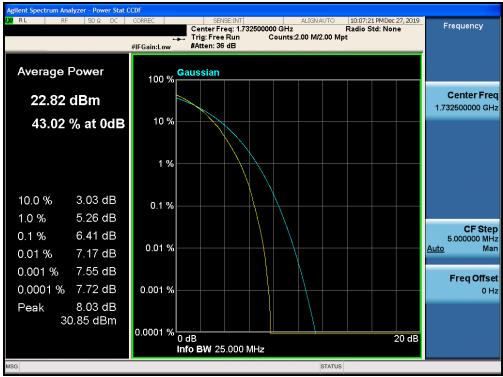
Plot 7-366. PAR Plot (Band 4 - 15.0MHz QPSK - RB Size 75)



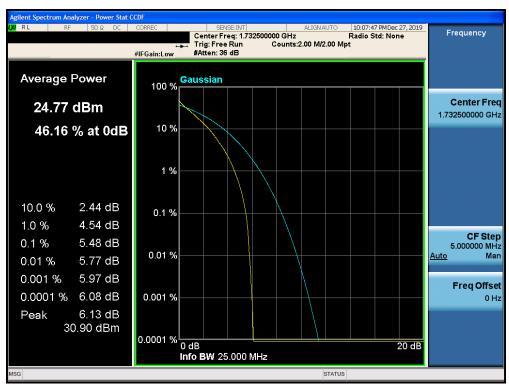
Plot 7-367. PAR Plot (Band 4 - 15.0MHz 16-QAM - RB Size 75)

FCC ID: BCGA2069	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-368. PAR Plot (Band 4 - 15.0MHz 64-QAM - RB Size 75)



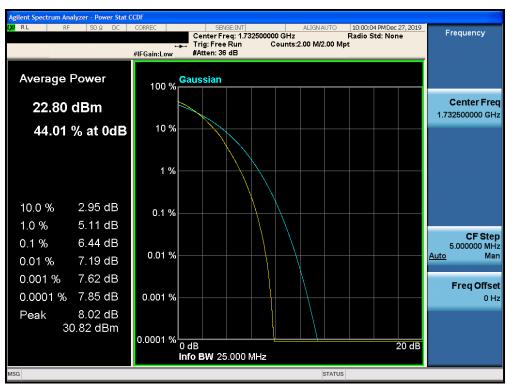
Plot 7-369. PAR Plot (Band 4 - 20.0MHz QPSK - RB Size 100)

FCC ID: BCGA2069	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-370. PAR Plot (Band 4 - 20.0MHz 16QAM - RB Size 100)

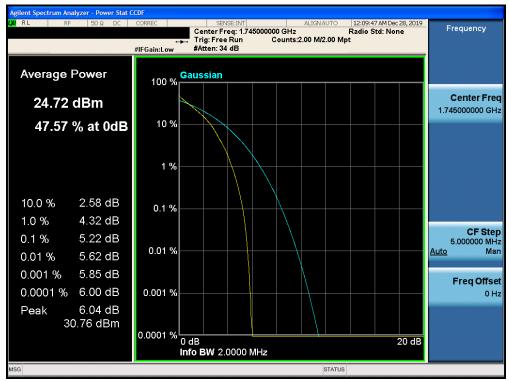


Plot 7-371. PAR Plot (Band 4 - 20.0MHz 64QAM - RB Size 100)

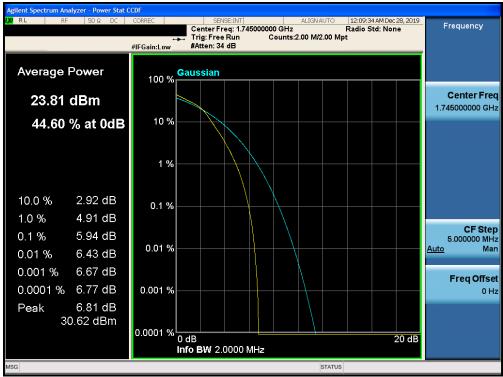
FCC ID: BCGA2069	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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### Band 66



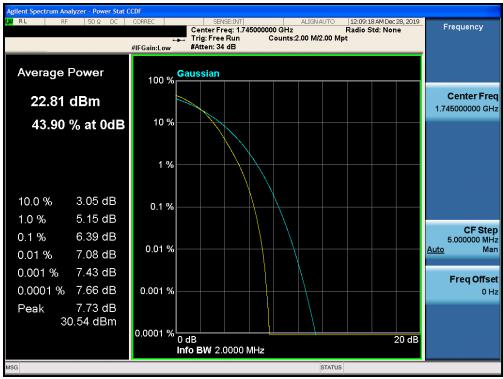
Plot 7-372. PAR Plot (Band 66 - 1.4MHz QPSK - RB Size 6)



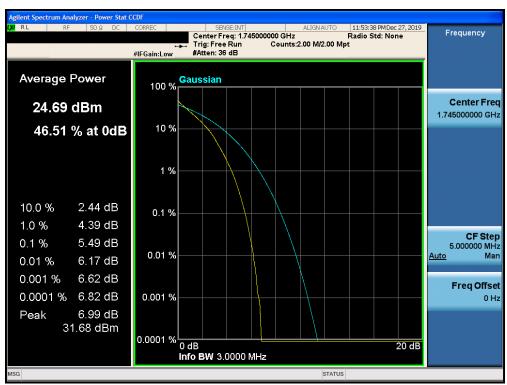
Plot 7-373. PAR Plot (Band 66 - 1.4MHz 16-QAM - RB Size 6)

FCC ID: BCGA2069	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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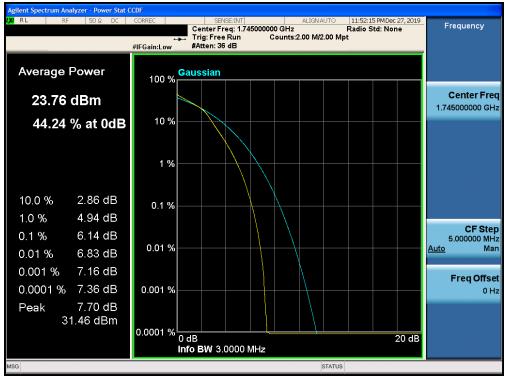
Plot 7-374. PAR Plot (Band 66 - 1.4MHz 64-QAM - RB Size 6)



Plot 7-375. PAR Plot (Band 66 - 3.0MHz QPSK - RB Size 15)

FCC ID: BCGA2069	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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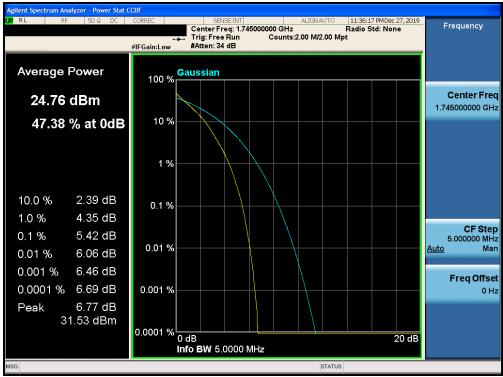
Plot 7-376. PAR Plot (Band 66 - 3.0MHz 16-QAM - RB Size 15)



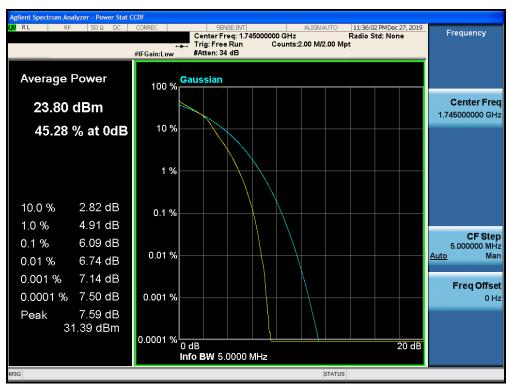
Plot 7-377. PAR Plot (Band 66 - 3.0MHz 64-QAM - RB Size 15)

FCC ID: BCGA2069	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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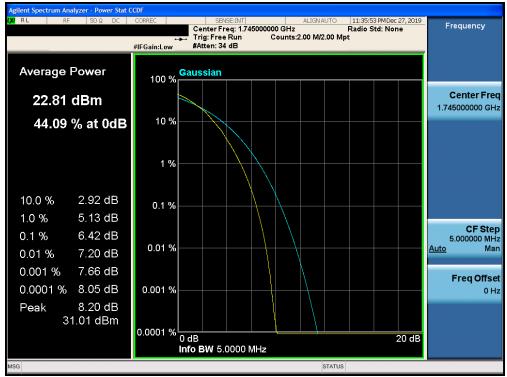
Plot 7-378. PAR Plot (Band 66 - 5.0MHz QPSK - RB Size 25)



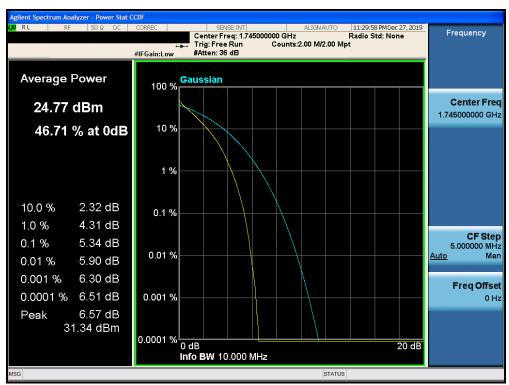
Plot 7-379. PAR Plot (Band 66 - 5.0MHz 16-QAM - RB Size 25)

FCC ID: BCGA2069	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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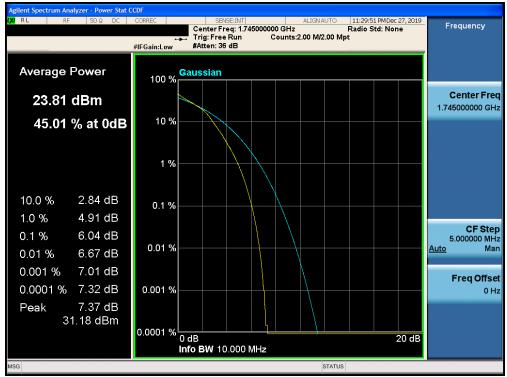
Plot 7-380. PAR Plot (Band 66 - 5.0MHz 64-QAM - RB Size 25)



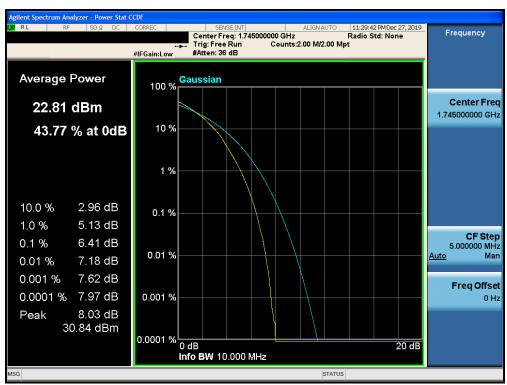
Plot 7-381. PAR Plot (Band 66 - 10.0MHz QPSK - RB Size 50)

FCC ID: BCGA2069	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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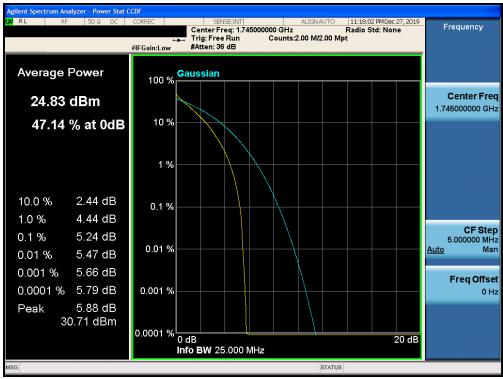
Plot 7-382. PAR Plot (Band 66 - 10.0MHz 16-QAM - RB Size 50)



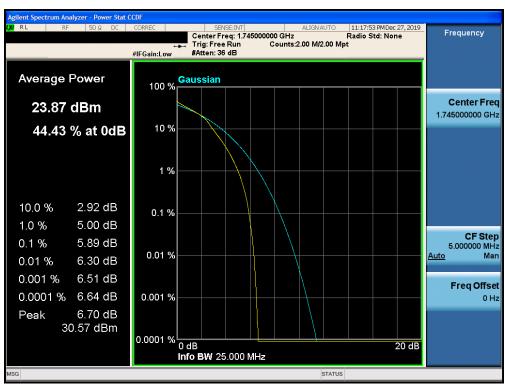
Plot 7-383. PAR Plot (Band 66 - 10.0MHz 64-QAM - RB Size 50)

FCC ID: BCGA2069	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-384. PAR Plot (Band 66 - 15.0MHz QPSK - RB Size 75)



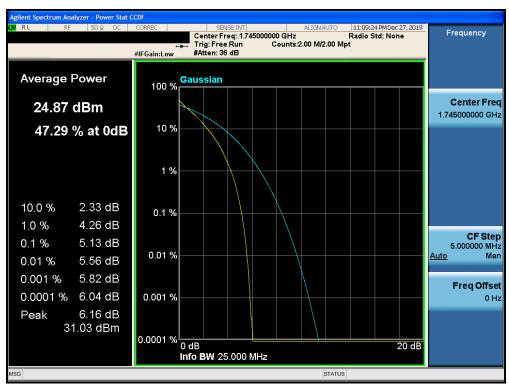
Plot 7-385. PAR Plot (Band 66 - 15.0MHz 16-QAM - RB Size 75)

FCC ID: BCGA2069	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Plot 7-386. PAR Plot (Band 66 - 15.0MHz 64-QAM - RB Size 75)



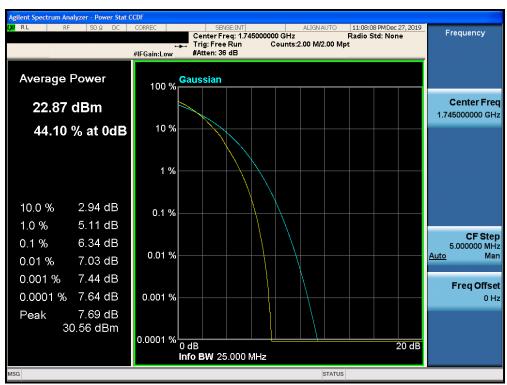
Plot 7-387. PAR Plot (Band 66 - 20.0MHz QPSK - RB Size 100)

FCC ID: BCGA2069	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Plot 7-388. PAR Plot (Band 66 - 20.0MHz 16-QAM - RB Size 75)

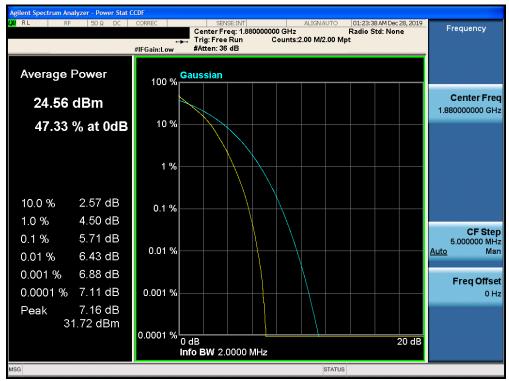


Plot 7-389. PAR Plot (Band 66 - 20.0MHz 64-QAM - RB Size 75)

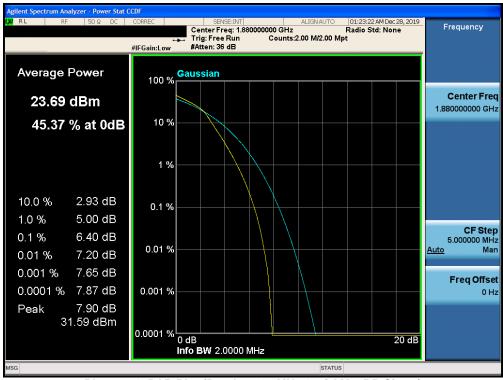
FCC ID: BCGA2069	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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### Band 2



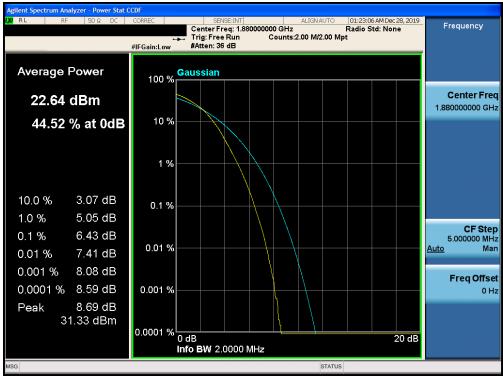
Plot 7-390. PAR Plot (Band 2 - 1.4MHz QPSK - RB Size 6)



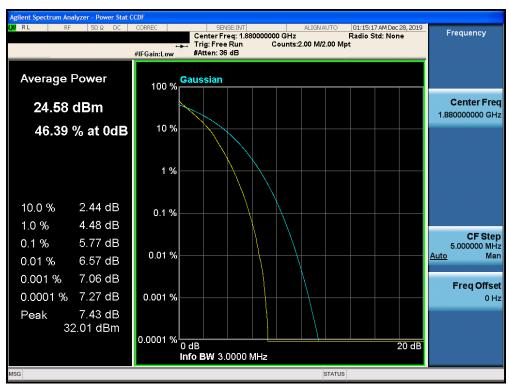
Plot 7-391. PAR Plot (Band 2 - 1.4MHz 16-QAM - RB Size 6)

FCC ID: BCGA2069	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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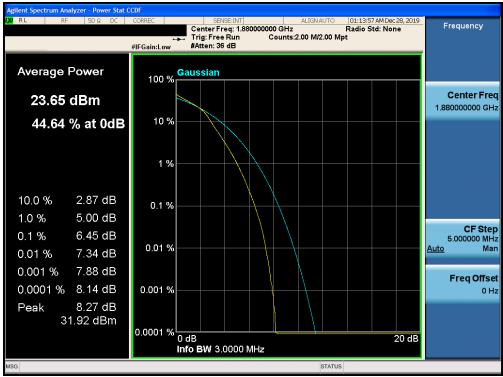
Plot 7-392. PAR Plot (Band 2 - 1.4MHz 64-QAM - RB Size 6)



Plot 7-393. PAR Plot (Band 2 - 3.0MHz QPSK - RB Size 15)

FCC ID: BCGA2069	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Plot 7-394. PAR Plot (Band 2 - 3.0MHz 16-QAM - RB Size 15)



Plot 7-395. PAR Plot (Band 2 - 3.0MHz 64-QAM - RB Size 15)

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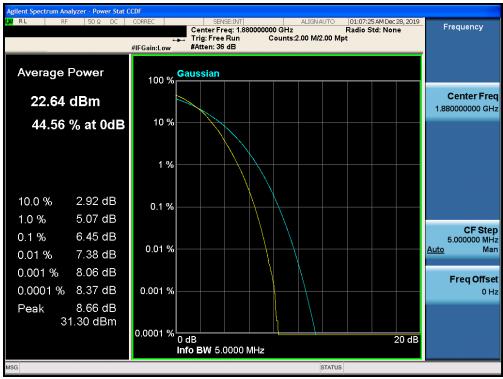
Plot 7-396. PAR Plot (Band 2 - 5.0MHz QPSK - RB Size 25)



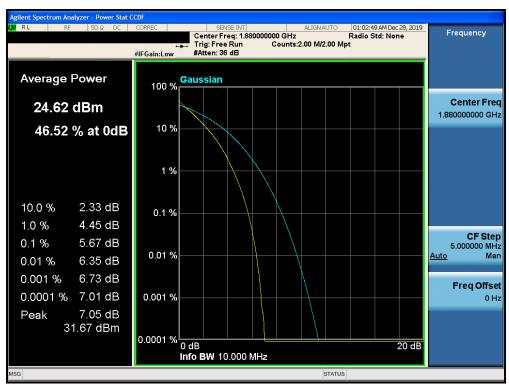
Plot 7-397. PAR Plot (Band 2 - 5.0MHz 16-QAM - RB Size 25)

FCC ID: BCGA2069	<u> PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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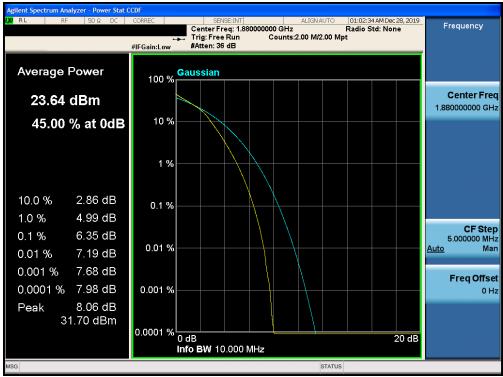
Plot 7-398. PAR Plot (Band 2 - 5.0MHz 64-QAM - RB Size 25)



Plot 7-399. PAR Plot (Band 2 – 10.0MHz QPSK – RB Size 50)

FCC ID: BCGA2069	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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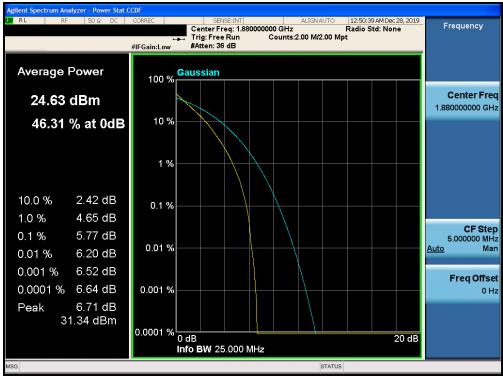
Plot 7-400. PAR Plot (Band 2 - 10.0MHz 16-QAM - RB Size 50)



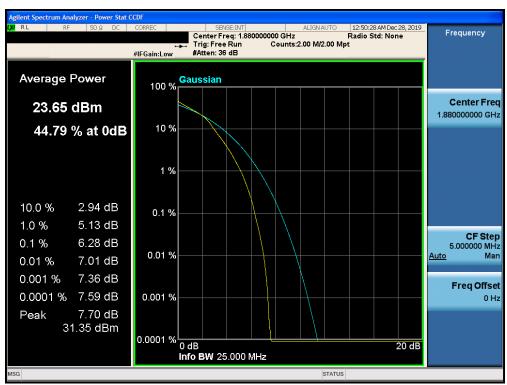
Plot 7-401. PAR Plot (Band 2 - 10.0MHz 64-QAM - RB Size 50)

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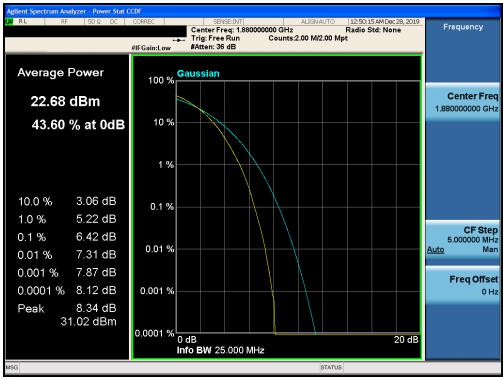
Plot 7-402. PAR Plot (Band 2 - 15.0MHz QPSK - RB Size 75)



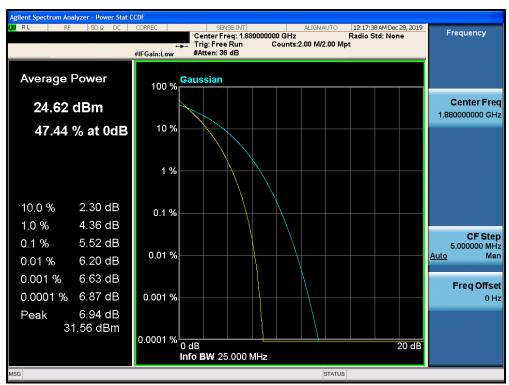
Plot 7-403. PAR Plot (Band 2 - 15.0MHz 16-QAM - RB Size 75)

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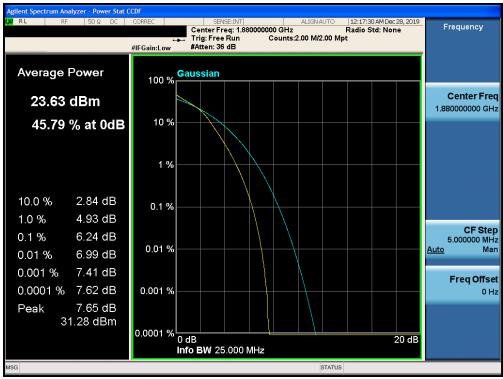
Plot 7-404. PAR Plot (Band 2 - 15.0MHz 64-QAM - RB Size 75)



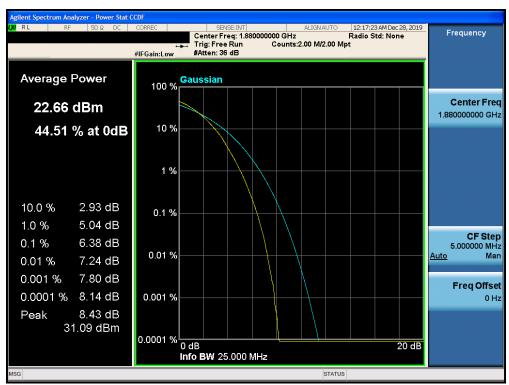
Plot 7-405. PAR Plot (Band 2 - 20.0MHz QPSK - RB Size 100)

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Plot 7-406. PAR Plot (Band 2 - 20.0MHz 16-QAM - RB Size 100)

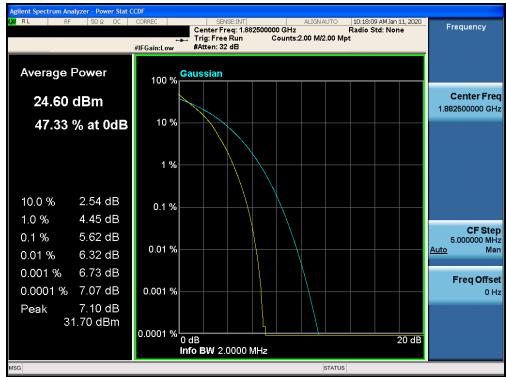


Plot 7-407. PAR Plot (Band 2 - 20.0MHz 64-QAM - RB Size 100)

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#### Band 25



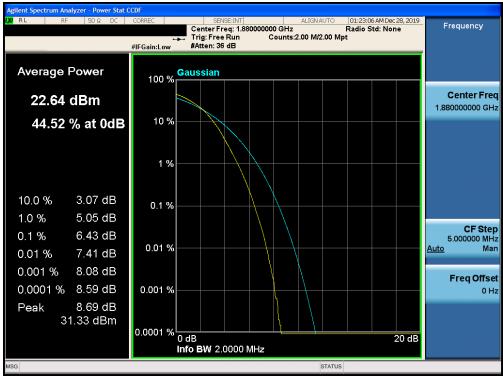
Plot 7-408. PAR Plot (Band 25 - 1.4MHz QPSK - RB Size 6)



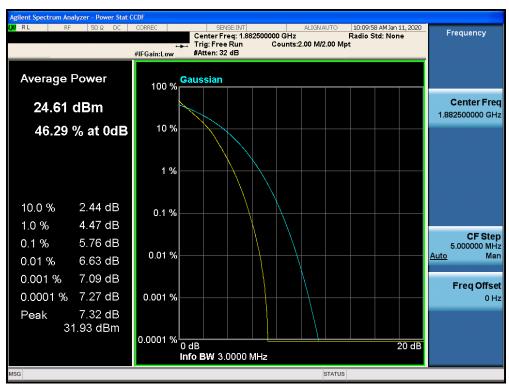
Plot 7-409. PAR Plot (Band 25 - 1.4MHz 16-QAM - RB Size 6)

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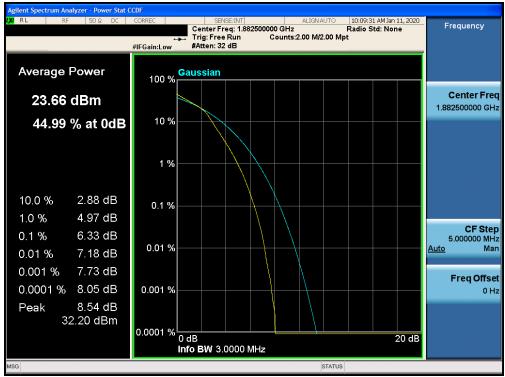
Plot 7-410. PAR Plot (Band 25 - 1.4MHz 64-QAM - RB Size 6)



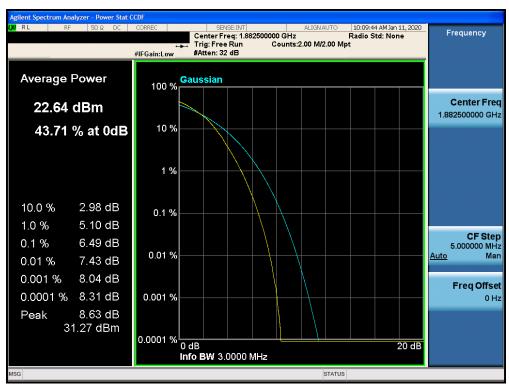
Plot 7-411. PAR Plot (Band 25 - 3.0MHz QPSK - RB Size 15)

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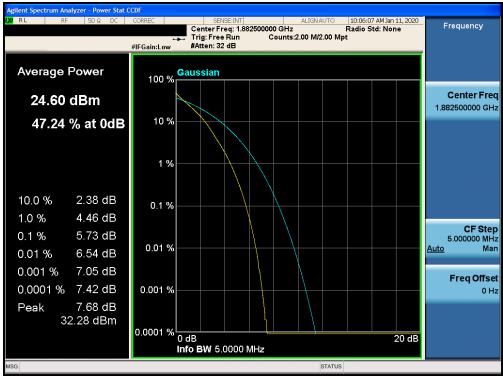
Plot 7-412. PAR Plot (Band 25 - 3.0MHz 16-QAM - RB Size 15)



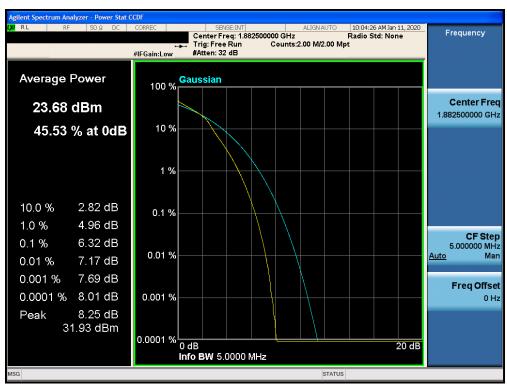
Plot 7-413. PAR Plot (Band 25 - 3.0MHz 64-QAM - RB Size 15)

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Plot 7-414. PAR Plot (Band 25 - 5.0MHz QPSK - RB Size 25)

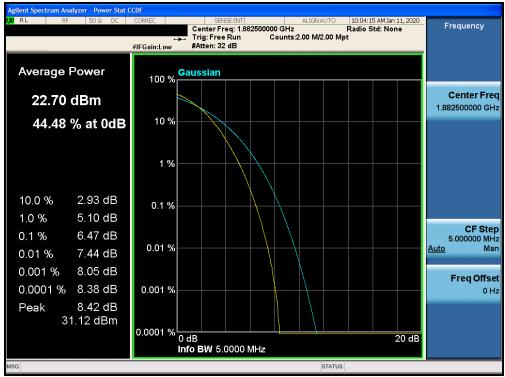


Plot 7-415. PAR Plot (Band 25 - 5.0MHz 16-QAM - RB Size 25)

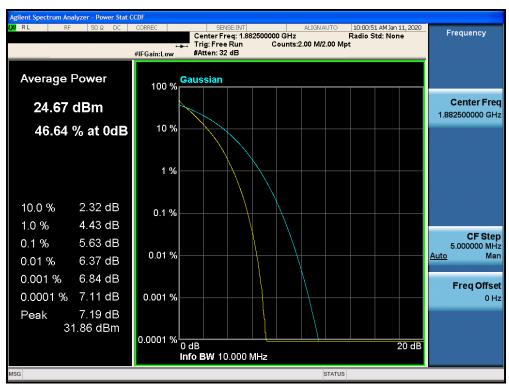
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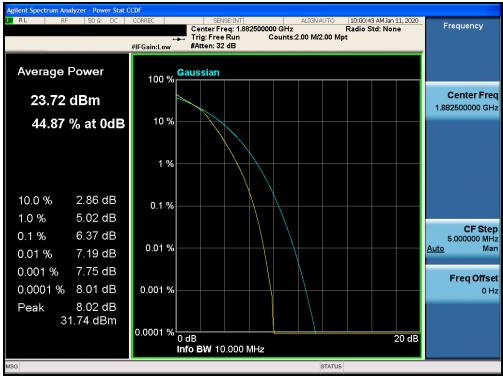
Plot 7-416. PAR Plot (Band 25 - 5.0MHz 64-QAM - RB Size 25)



Plot 7-417. PAR Plot (Band 25 - 10.0MHz QPSK - RB Size 50)

FCC ID: BCGA2069	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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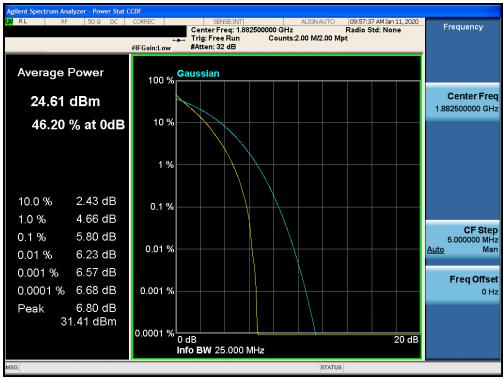
Plot 7-418. PAR Plot (Band 25 - 10.0MHz 16-QAM - RB Size 50)



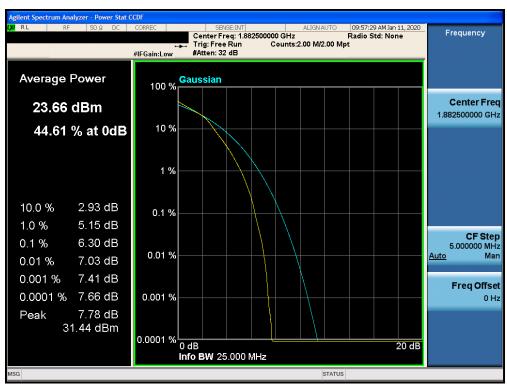
Plot 7-419. PAR Plot (Band 25 - 10.0MHz 64-QAM - RB Size 50)

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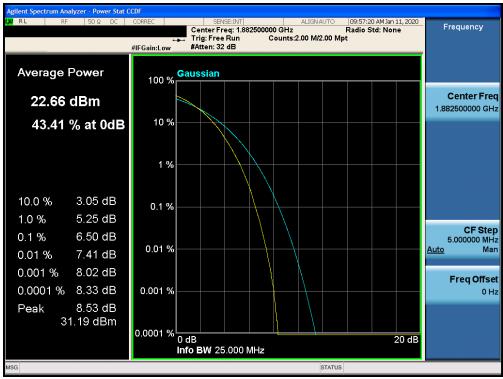
Plot 7-420. PAR Plot (Band 25 - 15.0MHz QPSK - RB Size 75)



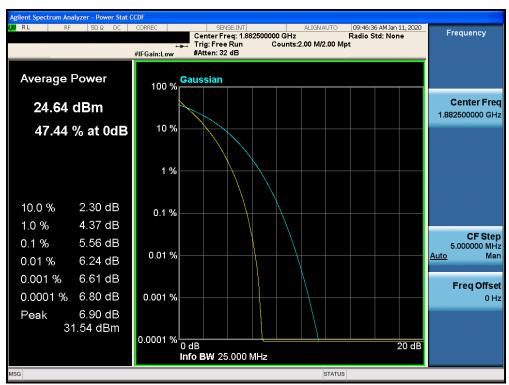
Plot 7-421. PAR Plot (Band 25 - 15.0MHz 16-QAM - RB Size 75)

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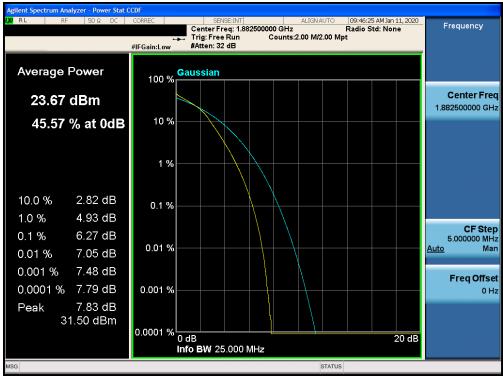
Plot 7-422. PAR Plot (Band 25 - 15.0MHz 64-QAM - RB Size 75)



Plot 7-423. PAR Plot (Band 25 - 20.0MHz QPSK - RB Size 100)

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Plot 7-424. PAR Plot (Band 25 - 20.0MHz 16-QAM - RB Size 100)



Plot 7-425. PAR Plot (Band 25 - 20.0MHz 64-QAM - RB Size 100)

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#### **Additional Maximum Power Reduction (A-MPR)** 7.6 §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. Conducted power measurements are performed to measure the average output power of the EUT. The averaging is to be performed only over duration of active transmissions at maximum output power level. The average measurements do not include averaging over periods when the transmitter is quiescent or when operating at reduced power level.

#### **Test Procedure Used**

KDB 971168 D01 v03

#### **Test Setup**

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



Figure 7-5. Conducted Power Measurement Setup

#### **Test Notes**

None.

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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]	Lowest Typical Power [dBm]	Delta [dB]
							QPSK			0		26.32	23.7	2.62
1				5	39675	2498.5	16-QAM	1	0	≤ 1	≤3	25.99	22.7	3.29
							64-QAM			≤ 2		25.37	21.7	3.67
							QPSK			0		26.87	26.7	0.17
2				5	39675	2498.5	16-QAM	1	9	≤ 1	0	25.97	25.7	0.27
							64-QAM			≤ 2		25.35	24.7	0.65
							QPSK	1	0	0		26.50	21.7	4.80
3				10	39700	2501	16-QAM	1	0	≤ 1	≤ 5	26.07	20.7	5.37
							64-QAM	11	0	≤ 2		25.41	19.7	5.71
							QPSK	20	0	0		26.42	23.7	2.72
4				10	39700	2501	16-QAM	20	0	≤ 1	≤ 2	25.75	22.7	3.05
							64-QAM	20	0	≤ 2		24.92	21.7	3.22
_				4.0	00=00	0504	QPSK	50	0	0		26.64	22.7	3.94
5				10	39700	2501	16-QAM	50	0	≤ 1	≤3	25.90	21.7	4.20
							64-QAM	50	0	≤ 2		24.89	20.7	4.19
				40	00700	0504	QPSK	25	20	0		26.87	24.7	2.17
6				10	39700	2501	16-QAM	25	20	≤ 1	≤ 1	25.92	23.7	2.22
							64-QAM	25	20	≤ 2		24.90	22.7	2.20
_				4.0	00=00	0504	QPSK	1	36	0		26.82	26.7	0.12
7				10	39700	2501	16-QAM	1	36	≤ 1	0	26.62	25.7	0.92
							64-QAM	1	36	≤ 2		25.87	24.7	1.17
					00705	0500 5	QPSK	1	0	0		26.49	21.7	4.79
8				15	39725	2503.5	16-QAM	1	0	≤ 1	≤ 5	26.14	20.7	5.44
							64-QAM	1	0	≤ 2		25.27	19.7	5.57
_	01	01 312 530 15	45	00705	0500.5	QPSK	20	0	0		26.37	23.7	2.67	
9	UI	312	550	15	39725	2503.5	16-QAM	20	0	≤ 1	≤ 2	25.72	22.7	3.02
							64-QAM	20	0	≤ 2		24.84	21.7	3.14
10				15	39725	2502 F	QPSK	75	0	0	≤ 4	26.87	21.7	5.17
10				15	39725	2503.5	16-QAM	75	0	≤1		25.87	20.7	5.17 5.22
							64-QAM QPSK	75 50	15	≤ 2 0		24.92 26.93	19.7 22.7	4.23
11				15	39725	2503.5	16-QAM	50	15		≤3	25.91	21.7	4.23
				10	03720	2000.0	64-QAM	50	15	≤ 1 ≤ 2	- 30	24.90	20.7	4.20
							QPSK	1	60	0		27.94	26.7	1.24
12				15	39725	2503.5	16-QAM	1	60	≤ 1	0	27.37	25.7	1.67
					00.20	2000.0	64-QAM	1	60	≤ 2	Ť	26.41	24.7	1.71
							QPSK	1	0	0		26.37	21.7	4.67
13				20	39750	2506	16-QAM	1	0	≤ 1	≤ 5	26.12	20.7	5.42
_							64-QAM	1	0	≤ 2		25.50	19.7	5.80
							QPSK	20	0	0		26.45	23.7	2.75
14				20	39750	2506	16-QAM	20	0	≤ 1	≤ 2	25.73	22.7	3.03
							64-QAM	20	0	≤ 2	1	24.92	21.7	3.22
							QPSK	100	0	0		26.94	21.7	5.24
15				20	39750	2506	16-QAM	100	0	≤1	≤ 4	25.97	20.7	5.27
							64-QAM	100	0	≤ 2	1	24.92	19.7	5.22
							QPSK	75	24	0	İ	26.98	22.7	4.28
16				20	39750	2506	16-QAM	75	24	≤ 1	≤3	25.97	21.7	4.27
							64-QAM	75	24	≤2	<u> </u>	24.94	20.7	4.24
							QPSK	1	77	0		27.86	26.7	1.16
17				20	39750	2506	16-QAM	1	77	≤ 1	0	27.54	25.7	1.84
							64-QAM	1	77	≤ 2		26.50	24.7	1.80
							QPSK			0	]	26.37	23.7	2.67
18	01	311	490	5	39675	2498.5	16-QAM	1	0	≤ 1	≤3	26.20	22.7	3.50
							64-QAM			≤ 2		25.39	21.7	3.69
4.5					005	0.455 =	QPSK	_		0		27.71	26.7	1.01
19	01	001	01	5	39675	2498.5	16-QAM	1	0	≤ 1	0	27.35	25.7	1.65
				<u> </u>			64-QAM			≤ 2		25.48	24.7	0.78

**Table 7-7. A-MPR Conducted Power Measurements** 

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# 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 10<sup>th</sup> 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 5, the minimum permissible attenuation level of any spurious emission is 43 +  $log_{10}(P_{[Watts]})$ , where P is the transmitter power in Watts.

For Band 7 and 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

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#### **Test Notes**

- 1. Uplink carrier aggregation is supported in this EUT while operating in Power Class 2 and Power Class 3.
- 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 7-3 to 7-18 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.
- 4. All possible configurations and ports were tested and only the worst case data were reported.
- 5. Refer to Table 2-3 Section 2.3 of this test report for correlation between Antennas and Ports.

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				PCC				SCC							
Power State	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 B5	10	20450	829	QPSK	1	49	LTE B5	10	20899	838.9	QPSK	1	0	24.92
Max	LTE B5	10	20525	836.5	QPSK	1	49	LTE B5	5	20947	843.7	QPSK	1	0	24.93
Max	LTE B5	10	20600	844	QPSK	1	0	LTE B5	10	20851	834.1	QPSK	1	49	24.97

Table 7-8. Conducted Powers (B5 – Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

				PCC							SCC				Power
Power State	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	Bandwidth	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B5	10	20450	829	QPSK	50	0	LTE B5	10	20549	838.9	QPSK	50	0	23.96
Max	LTE B5	10	20450	829	16-QAM	50	0	LTE B5	10	20549	838.9	16-QAM	50	0	21.87
Max	LTE B5	10	20450	829	64-QAM	50	0	LTE B5	10	20549	838.9	64-QAM	50	0	21.73

Table 7-9. Conducted Powers (B5 with Various Combinations for 10MHz Channel Bandwidth)

				PCC							SCC				Power
Power State	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 B7	20	20850	2510	QPSK	1	99	LTE B7	20	21048	2529.8	QPSK	1	0	24.90
Max	LTE B7	20	21100	2535	QPSK	1	99	LTE B7	20	21298	2554.8	QPSK	1	0	24.72
Max	LTE B7	20	21350	2560	QPSK	1	0	LTE B7	20	21152	2540.2	QPSK	1	99	24.91

Table 7-10. Conducted Powers (B7 - Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

				PCC							SCC				Power
Power State	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	Frequency	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B7	20	20850	2510	QPSK	100	0	LTE B7	20	21048	2529.8	QPSK	100	0	22.72
Max	LTE B7	20	20850	2510	16-QAM	100	0	LTE B7	20	21048	2529.8	16-QAM	100	0	21.89
Max	LTE B7	20	20850	2510	64-QAM	100	0	LTE B7	20	21048	2529.8	64-QAM	100	0	21.87

Table 7-11. Conducted Powers (B7 with Various Combinations for 20MHz Channel Bandwidth)

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				PCC							SCC				Power
Power State	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	99	LTE B41	20	39948	2525.8	QPSK	1	0	26.91
Max	LTE B41	20	40620	2593	QPSK	1	99	LTE B41	20	40818	2612.8	QPSK	1	0	26.94
Max	LTE B41	20	41490	2680	QPSK	1	0	LTE B41	20	41292	2660.2	QPSK	1	99	26.79

## Table 7-12. Conducted Powers (B41-PC2 – Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

				PCC							scc				Power
Power State	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	100	0	LTE B41	20	39948	2525.8	QPSK	100	0	24.73
Max	LTE B41	20	39750	2506	16-QAM	100	0	LTE B41	20	39948	2525.8	16-QAM	100	0	23.76
Max	LTE B41	20	39750	2506	64-QAM	100	0	LTE B41	20	39948	2525.8	64-QAM	100	0	23.78

## Table 7-13. Conducted Powers (B41-PC2 with Various Combinations for 20MHz Channel Bandwidth)

				PCC							SCC				Power
Power State	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	99	LTE B41	20	39948	2525.8	QPSK	1	0	24.80
Max	LTE B41	20	40620	2593	QPSK	1	99	LTE B41	20	40818	2612.8	QPSK	1	0	24.76
Max	LTE B41	20	41490	2680	QPSK	1	0	LTE B41	20	41292	2660.2	QPSK	1	99	24.71

## Table 7-14. Conducted Powers (B41-PC3 – Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

				PCC							SCC				Power
Power State	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	Frequency	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B41	20	39750	2506	QPSK	100	0	LTE B41	20	39948	2525.8	QPSK	100	0	22.80
Max	LTE B41	20	39750	2506	16-QAM	100	0	LTE B41	20	39948	2525.8	16-QAM	100	0	21.75
Max	LTE B41	20	39750	2506	64-QAM	100	0	LTE B41	20	39948	2525.8	64-QAM	100	0	21.76

Table 7-15. Conducted Powers (B41-PC3 with Various Combinations for 20MHz Channel Bandwidth)

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#### Port-P

				PCC							SCC				Power
Power State	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 B5	10	20450	829	QPSK	1	49	LTE B5	10	20899	838.9	QPSK	1	0	23.50
Max	LTE B5	10	20525	836.5	QPSK	1	49	LTE B5	5	20947	843.7	QPSK	1	0	23.44
Max	LTE B5	10	20600	844	QPSK	1	0	LTE B5	10	20851	834.1	QPSK	1	49	23.42

Table 7-16. Conducted Powers (B5 – Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

				PCC							scc				Power
Power State	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	Bandwidth	SCC (UL) Channel	SCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B5	10	20450	829	QPSK	50	0	LTE B5	10	20549	838.9	QPSK	50	0	21.49
Max	LTE B5	10	20450	829	16-QAM	50	0	LTE B5	10	20549	838.9	16-QAM	50	0	20.44
Max	LTE B5	10	20450	829	64-QAM	50	0	LTE B5	10	20549	838.9	64-QAM	50	0	20.42

Table 7-17. Conducted Powers (B5 with Various Combinations for 10MHz Channel Bandwidth)

				PCC							SCC				Power
Power State	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 B7	20	20850	2510	QPSK	1	99	LTE B7	20	21048	2529.8	QPSK	1	0	21.48
Max	LTE B7	20	21100	2535	QPSK	1	99	LTE B7	20	21298	2554.8	QPSK	1	0	21.35
Max	LTE B7	20	21350	2560	QPSK	1	0	LTE B7	20	21152	2540.2	QPSK	1	99	21.41

Table 7-18. Conducted Powers (B7 - Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

				PCC							SCC				Power
Power State	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 B7	20	20850	2510	QPSK	100	0	LTE B7	20	21048	2529.8	QPSK	100	0	19.50
Max	LTE B7	20	20850	2510	16-QAM	100	0	LTE B7	20	21048	2529.8	16-QAM	100	0	18.44
Max	LTE B7	20	20850	2510	64-QAM	100	0	LTE B7	20	21048	2529.8	64-QAM	100	0	18.38

Table 7-19. Conducted Powers (B7 with Various Combinations for 20MHz Channel Bandwidth)

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				PCC							scc				Power
Power State	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	99	LTE B41	20	39948	2525.8	QPSK	1	0	23.43
Max	LTE B41	20	40620	2593	QPSK	1	99	LTE B41	20	40818	2612.8	QPSK	1	0	23.42
Max	LTE B41	20	41490	2680	QPSK	1	0	LTE B41	20	41292	2660.2	QPSK	1	99	23.50

Table 7-20. Conducted Powers (B41-PC2 – Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

				PCC							SCC				Power
Power State	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	100	0	LTE B41	20	39948	2525.8	QPSK	100	0	21.43
Max	LTE B41	20	39750	2506	16-QAM	100	0	LTE B41	20	39948	2525.8	16-QAM	100	0	20.43
Max	LTE B41	20	39750	2506	64-QAM	100	0	LTE B41	20	39948	2525.8	64-QAM	100	0	20.41

Table 7-21. Conducted Powers (B41-PC2 with Various Combinations for 20MHz Channel Bandwidth)

				PCC							scc				Power
Power State	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	99	LTE B41	20	39948	2525.8	QPSK	1	0	21.50
Max	LTE B41	20	40620	2593	QPSK	1	99	LTE B41	20	40818	2612.8	QPSK	1	0	21.43
Max	LTE B41	20	41490	2680	QPSK	1	0	LTE B41	20	41292	2660.2	QPSK	1	99	21.27

## Table 7-22. Conducted Powers (B41-PC3 – Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

				PCC							SCC				Power
Power State	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	100	0	LTE B41	20	39948	2525.8	QPSK	100	0	19.39
Max	LTE B41	20	39750	2506	16-QAM	100	0	LTE B41	20	39948	2525.8	16-QAM	100	0	18.43
Max	LTE B41	20	39750	2506	64-QAM	100	0	LTE B41	20	39948	2525.8	64-QAM	100	0	18.45

Table 7-23. Conducted Powers (B41-PC3 with Various Combinations for 20MHz Channel Bandwidth)

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#### Port-C

				PCC							SCC				Power
Power State	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 B7	20	20850	2510	QPSK	1	99	LTE B7	20	21048	2529.8	QPSK	1	0	24.47
Max	LTE B7	20	21100	2535	QPSK	1	99	LTE B7	20	21298	2554.8	QPSK	1	0	24.49
Max	LTE B7	20	21350	2560	QPSK	1	0	LTE B7	20	21152	2540.2	QPSK	1	99	24.50

Table 7-24. Conducted Powers (B7 - Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

				PCC							SCC				Power
Power State	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 B7	20	20850	2510	QPSK	100	0	LTE B7	20	21048	2529.8	QPSK	100	0	22.42
Max	LTE B7	20	20850	2510	16-QAM	100	0	LTE B7	20	21048	2529.8	16-QAM	100	0	21.50
Max	LTE B7	20	20850	2510	64-QAM	100	0	LTE B7	20	21048	2529.8	64-QAM	100	0	21.48

Table 7-25. Conducted Powers (B7 with Various Combinations for 20MHz Channel Bandwidth)

				PCC							scc				Power
Power State	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	99	LTE B41	20	39948	2525.8	QPSK	1	0	26.30
Max	LTE B41	20	40620	2593	QPSK	1	99	LTE B41	20	40818	2612.8	QPSK	1	0	26.45
Max	LTE B41	20	41490	2680	QPSK	1	0	LTE B41	20	41292	2660.2	QPSK	1	99	26.45

Table 7-26. Conducted Powers (B41-PC2 – Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

				PCC							scc				Power
Power State	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	Frequency	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B41	20	39750	2506	QPSK	100	0	LTE B41	20	39948	2525.8	QPSK	100	0	24.29
Max	LTE B41	20	39750	2506	16-QAM	100	0	LTE B41	20	39948	2525.8	16-QAM	100	0	23.37
Max	LTE B41	20	39750	2506	64-QAM	100	0	LTE B41	20	39948	2525.8	64-QAM	100	0	23.36

Table 7-27. Conducted Powers (B41-PC2 with Various Combinations for 20MHz Channel Bandwidth)

				PCC							SCC				Power
Power State	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	99	LTE B41	20	39948	2525.8	QPSK	1	0	24.49
Max	LTE B41	20	40620	2593	QPSK	1	99	LTE B41	20	40818	2612.8	QPSK	1	0	24.50
Max	LTE B41	20	41490	2680	QPSK	1	0	LTE B41	20	41292	2660.2	QPSK	1	99	24.46

Table 7-28. Conducted Powers (B41-PC3 – Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

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				PCC							SCC				Power
Power State	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	Randwidth	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	100	0	LTE B41	20	39948	2525.8	QPSK	100	0	22.39
Max	LTE B41	20	39750	2506	16-QAM	100	0	LTE B41	20	39948	2525.8	16-QAM	100	0	21.41
Max	LTE B41	20	39750	2506	64-QAM	100	0	LTE B41	20	39948	2525.8	64-QAM	100	0	21.39

Table 7-29. Conducted Powers (B41-PC3 with Various Combinations for 20MHz Channel Bandwidth)

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#### Port-D

				PCC							SCC				Power
Power State	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 B7	20	20850	2510	QPSK	1	99	LTE B7	20	21048	2529.8	QPSK	1	0	21.93
Max	LTE B7	20	21100	2535	QPSK	1	99	LTE B7	20	21298	2554.8	QPSK	1	0	22.00
Max	LTE B7	20	21350	2560	QPSK	1	0	LTE B7	20	21152	2540.2	QPSK	1	99	22.00

Table 7-30. Conducted Powers (B7 - Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

				PCC				SCC							Power
Power State	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 B7	20	20850	2510	QPSK	100	0	LTE B7	20	21048	2529.8	QPSK	100	0	19.95
Max	LTE B7	20	20850	2510	16-QAM	100	0	LTE B7	20	21048	2529.8	16-QAM	100	0	19.00
Max	LTE B7	20	20850	2510	64-QAM	100	0	LTE B7	20	21048	2529.8	64-QAM	100	0	18.93

Table 7-31. Conducted Powers (B7 with Various Combinations for 20MHz Channel Bandwidth)

				PCC							scc				Power
Power State	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	99	LTE B41	20	39948	2525.8	QPSK	1	0	22.50
Max	LTE B41	20	40620	2593	QPSK	1	99	LTE B41	20	40818	2612.8	QPSK	1	0	22.47
Max	LTE B41	20	41490	2680	QPSK	1	0	LTE B41	20	41292	2660.2	QPSK	1	99	22.49

Table 7-32. Conducted Powers (B41-PC2 - Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

				PCC							SCC				Power
Power State	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	Frequency	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B41	20	39750	2506	QPSK	100	0	LTE B41	20	39948	2525.8	QPSK	100	0	20.50
Max	LTE B41	20	39750	2506	16-QAM	100	0	LTE B41	20	39948	2525.8	16-QAM	100	0	19.46
Max	LTE B41	20	39750	2506	64-QAM	100	0	LTE B41	20	39948	2525.8	64-QAM	100	0	19.43

Table 7-33. Conducted Powers (B41-PC2 with Various Combinations for 20MHz Channel Bandwidth)

				PCC				scc							Power
Power State	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	99	LTE B41	20	39948	2525.8	QPSK	1	0	21.00
Max	LTE B41	20	40620	2593	QPSK	1	99	LTE B41	20	40818	2612.8	QPSK	1	0	20.98
Max	LTE B41	20	41490	2680	QPSK	1	0	LTE B41	20	41292	2660.2	QPSK	1	99	20.87

Table 7-34. Conducted Powers (B41-PC3 – Left Carrier: RB Size 1 Offset Max Right Carrier: RB Size 1 Offset 0)

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				PCC				SCC							Power
Power State	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	Randwidth	SCC (UL) Channel	Frequency	Modulation	PCC UL# RB	PCC UL RB Offset	ULCA Tx.Power (dBm)
Max	LTE B41	20	39750	2506	QPSK	100	0	LTE B41	20	39948	2525.8	QPSK	100	0	19.00
Max	LTE B41	20	39750	2506	16-QAM	100	0	LTE B41	20	39948	2525.8	16-QAM	100	0	18.00
Max	LTE B41	20	39750	2506	64-QAM	100	0	LTE B41	20	39948	2525.8	64-QAM	100	0	17.98

Table 7-35. Conducted Powers (B41-PC3 with Various Combinations for 20MHz Channel Bandwidth)

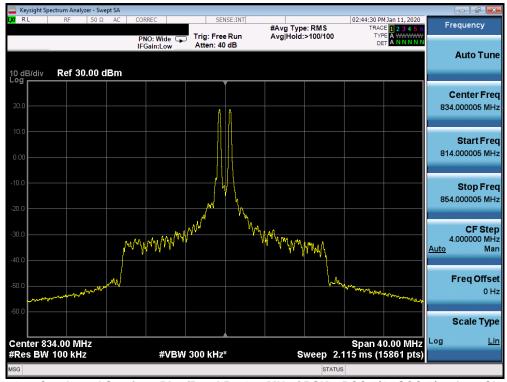
FCC ID: BCGA2069	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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## Band 5



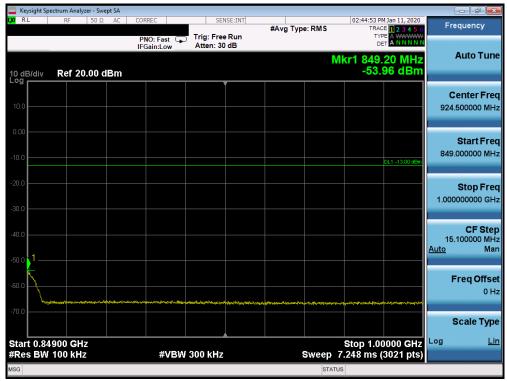
Plot 7-426. Conducted Spurious Plot (Band 5 - 10.0MHz QPSK - PCC 1/49 SCC 1/0 - Low Channel)



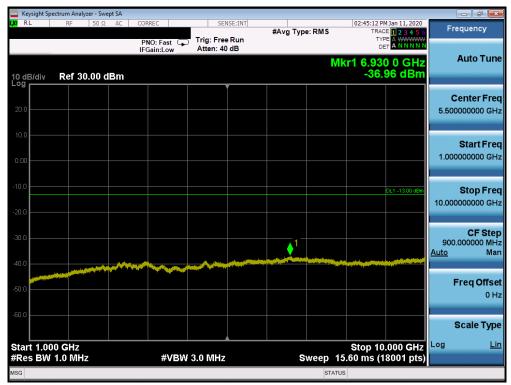
Plot 7-427. Conducted Spurious Plot (Band 5 - 10.0MHz QPSK - PCC 1/49 SCC 1/0 - Low Channel)

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Plot 7-428. Conducted Spurious Plot (Band 5 - 10.0MHz QPSK - PCC 1/49 SCC 1/0 - Low Channel)



Plot 7-429. Conducted Spurious Plot (Band 5 – 10.0MHz QPSK – PCC 1/49 SCC 1/0 – Low Channel)

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