



Shenzhen GTI Technology Co., Ltd.

1F,2 Block, Jiaquan Building, Guanlan High-tech Park Baoan District,
Shenzhen, Guangdong, China.

Tel: +86-755-27559792

Fax: +86-755-86116468

Report No.: GTI20140444F-2

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TEST REPORT

Product Name : LTE mobile phone

Trademark : NUU

Model/Type reference : X1

Listed Model(s) : X1 Series

Model difference : X1 other series model No. are all the same with main model
X1, except for body color, RAM and LOGO to meet different
customer requirements

FCC ID : 2ADINNUUX1

Test Standards : **FCC Part 27: MISCELLANEOUS WIRELESS
COMMUNICATIONS SERVICES**

Applicant : Sun Cupid Technology (HK) Ltd.

Address of Applicant : 16/F, CEO Tower, 77 Wing Hong St, Cheung Sha Wan,
Kowloon, Hong Kong

Date of Receipt : Nov.02, 2014

Date of Test Date : Nov.02, 2014 - Nov.28, 2014

Data of Issue : Nov.28, 2014

Test result	Pass *
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* In the configuration tested, the EUT complied with the standards specified above

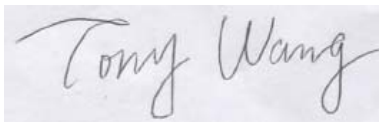
GENERAL DESCRIPTION OF EUT	
Equipment:	LTE Mobile Phone
Model Name:	X1
Manufacturer:	Sun Cupid Technology (Shenzhen) Ltd.
Manufacturer Address:	10A, No.3 Bldg, China Academy of Sci & Tech Development, No.1 High-Tech South St. Nanshan district, Shenzhen, China.
Power Source:	DC 3.8V from Li-ion battery
Power Rating:	Input: 100-240VAC, 50/60Hz 0.2A MAX Output: 5V---1.0A

Compiled By:



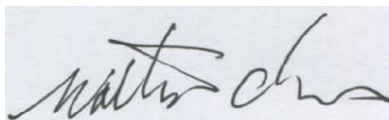
(Allen Wang)

Reviewed By:



(Tony Wang)

Approved By:



(Walter Chen)

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1. SUMMARY

1.1. Test Standards

[FCC Part 27 \(10-1-13 Edition\)](#): MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES

[TIA/EIA 603 D June 2010](#): Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.

[47 CFR FCC Part 15 Subpart B](#): - Unintentional Radiators

[FCC Part 2](#): FREQUENCY ALLOCATIONS AND RADIO TREATY MATTERS; GENERAL RULES AND REGULATIONS

[KDB971168 D01:2014-10-17](#) Procedures for Compliance Measurement of the Fundamental Emission Power of Licensed Wideband (> 1 MHz) Digital Transmission Systems

[ANSI C63.4:2009](#): Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

1.2. Test Description

Test Item	Section in CFR 47	Result
RF Output Power	Part 2.1046 Part 27.50 (d)(4) Part 27.50 (h)(2)	Pass
Peak-to-Average Ratio	Part 27.50 (d)(4) Part 27.50 (h)(2)	Pass
Modulation Characteristics	Part 2.1047	N/A
99% & -26 dB Occupied Bandwidth	Part 2.1049 Part 27.53 (h) Part 27.53 (m)	Pass
Spurious Emissions at Antenna Terminal	Part 2.1051 Part 27.53 (h) Part 27.53 (m)	Pass
Field Strength of Spurious Radiation	Part 2.1053 Part 27.53 (h) Part 27.53 (m)	Pass
Out of band emission, Band Edge	Part 27.53 (h) Part 27.53 (m)	Pass
Frequency stability vs. temperature	Part 2.1055(a)(1)(b) Part 27.54	Pass
Frequency stability vs. voltage	Part 2.1055(d)(1)(2) Part 27.54	Pass

Remark: The measurement uncertainty is not included in the test result.

1.3. Test Facility

1.3.1 Address of the test laboratory

Shenzhen General Testing & Inspection Technology Co., Ltd.

Add: 1F, 2 Block, Jiaquan Building, Guanlan High-tech Park Baoan District, Shenzhen, Guangdong, China

1.3.2 Laboratory accreditation

The test facility is recognized, certified, or accredited by the following organizations:

IC Registration No.: 9783A

The 3m alternate test site of Shenzhen GTI Technology Co., Ltd. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 9783A on Aug, 2011.

FCC-Registration No.: 214666

Shenzhen GTI Technology Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 214666, Sep 19, 2011

1.4. Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements and is documented in the Shenzhen General Testing & Inspection Technology Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for General Testing & Inspection laboratory is reported:

Test Items	Measurement Uncertainty	Notes
Frequency stability	25 Hz	(1)
Transmitter power conducted	0.57 dB	(1)
Transmitter power Radiated	2.20 dB	(1)
Conducted spurious emission 9KHz-12.75 GHz	1.60 dB	(1)
Conducted Emission 9KHz-30MHz	3.39 dB	(1)
Radiated Emission 30~1000MHz	4.24 dB	(1)
Radiated Emission 1~18GHz	5.16 dB	(1)
Radiated Emission 18-40GHz	5.54 dB	(1)
Occupied Bandwidth	-----	(1)
Emission Mask	-----	(1)
Modulation Characteristic	-----	(1)
Transmitter Frequency Behavior	-----	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

2. GENERAL INFORMATION

2.1. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Normal Temperature:	-30~50°C
Relative Humidity:	30~60 %
Air Pressure:	950~1050mba

2.2. General Description of EUT

Product Name:	LTE Mobile Phone
Model/Type reference:	X1
Power supply:	DC 3.8V from Li-ion battery
Adapter information:	Model: HNFG050100UU Input: 100-240VAC, 50/60Hz 0.2A MAX Output: 5V==1.0A
Hardware version:	UALC04 VER E
Software version:	X1-US-01
LTE	
Operation Band:	FDD Band 4, FDD Band7
Power Class:	Power Class 3
Modulation Type:	QPSK,16QAM
Bandwidth support:	FDD Band 4: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz FDD Band7: 5MHz, 10MHz, 15MHz, 20MHz
LTE Release Version:	R9
Carrier aggregation	Not Supported

2.3. Description of Test Modes and Test Frequency

The EUT has been tested under typical operating condition. The CMW500 used to control the EUT staying in continuous transmitting and receiving mode for testing.

Test Frequency:

FDD Band 4			
TX Channel Bandwidth	Test RF Channels		
	Low	Middle	High
TX (1.4MHz)	Channel 19957	Channel 20175	Channel 20393
	1710.7 MHz	1732.5 MHz	1754.3 MHz
TX (3MHz)	Channel 19965	Channel 20175	Channel 20385
	1711.5 MHz	1732.5 MHz	1753.5 MHz
TX (5MHz)	Channel 19975	Channel 20175	Channel 20375
	1712.5 MHz	1732.5 MHz	1752.5 MHz
TX (10MHz)	Channel 20000	Channel 20175	Channel 20350
	1715.0 MHz	1732.5 MHz	1750.0 MHz
TX (15MHz)	Channel 20025	Channel 20175	Channel 20325
	1717.5 MHz	1732.5 MHz	1747.5 MHz
TX (20MHz)	Channel 20000	Channel 20175	Channel 20300
	1720.0 MHz	1732.5 MHz	1745.0 MHz
FDD Band 7			

TX/RX Channel Bandwidth	Test RF Channels		
	Low	Middle	High
TX (5MHz)	Channel 20775	Channel 21100	Channel 21425
	2502.5 MHz	2535.0 MHz	2567.5 MHz
TX (10MHz)	Channel 20800	Channel 21100	Channel 21400
	2505 MHz	2535.0 MHz	2565.0 MHz
TX (15MHz)	Channel 20825	Channel 21100	Channel 21375
	2507.5 MHz	2535.0 MHz	2562.5 MHz
TX (20MHz)	Channel 20850	Channel 21100	Channel 21350
	2510.0 MHz	2535.0 MHz	2560.0 MHz

2.4. Measurement Instruments List

Output Power (Radiated) & Radiated Spurious Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	EMI Test Receiver	R&S	ESCI	100658	Dec 26, 2014
2	High pass filter	Compliance Direction systems	BSU-6	34202	Oct 23,2015
3	Log-Bicon Antenna	Schwarzbeck	CBL6141A	4180	Dec 27, 2014
4	Log-Bicon Antenna	Schwarzbeck	CBL6141A	4181	Dec 27, 2014
5	Spectrum Analyzer	Agilent	N9030A	MY49431699	Mar 20, 2015
6	Horn Antenna	Schwarzbeck	BBHA 9120D	648	Dec 27, 2014
7	Horn Antenna	Schwarzbeck	BBHA 9120D	649	Dec 27, 2014
8	Ultra-Broadband Antenna	ShwarzBeck	BBHA9170	25841	Dec 27,2014
9	Ultra-Broadband Antenna	ShwarzBeck	BBHA9170	25842	Dec 27,2014
10	Pre-Amplifier	HP	8447D	1937A03050	Dec 26, 2014
11	Pre-Amplifier	EMCI	EMC051835	980075	Dec 27, 2014
12	Splitter	Mini-Circuit	ZAPD-4	400059	Dec. 26, 2014
13	Signal Generator	Agilent	N5182A	1019356	Dec. 26, 2014
14	Wideband Radio Communication tester	Rohde & Schwarz	CMW500	113649	March,15,2015
15	Antenna Mast	UC	UC3000	N/A	N/A
16	Turn Table	UC	UC3000	N/A	N/A
17	Cable	Schwarzbeck	Cable002	--	Dec. 26,2014
18	Cable	Schwarzbeck	Cable003	--	Dec. 26,2014
19	Loop Antenna	Rohde & Schwarz	HFH2-Z2	829324	Dec. 26,2014

Output Power(Conducted) & Occupied Bandwidth & Emission Bandwidth & Band Edge Compliance & Conducted Spurious Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	Wideband Radio Communication tester	Rohde & Schwarz	CMW500	113649	March,15,2015
2	Spectrum Analyzer	Agilent	N9030A	MY49431699	Mar 20, 2015
3	Splitter	Mini-Circuit	ZAPD-4	400059	Dec. 26, 2014

Frequency Stability					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1	Wideband Radio Communication tester	Rohde & Schwarz	CMW500	113649	March,15,2015
2	Spectrum Analyzer	Agilent	N9030A	MY49431699	Mar 20, 2015
3	Splitter	Mini-Circuit	ZAPD-4	400059	Dec. 26, 2014
4	Climate Chamber	ESPEC	EL-10KA	05107008	Oct 25,2015

Note: 1. The Cal. Interval was one year.

2. The cable loss has calculated in test result which connection between each test instruments.

3. TEST ITEM AND RESULTS

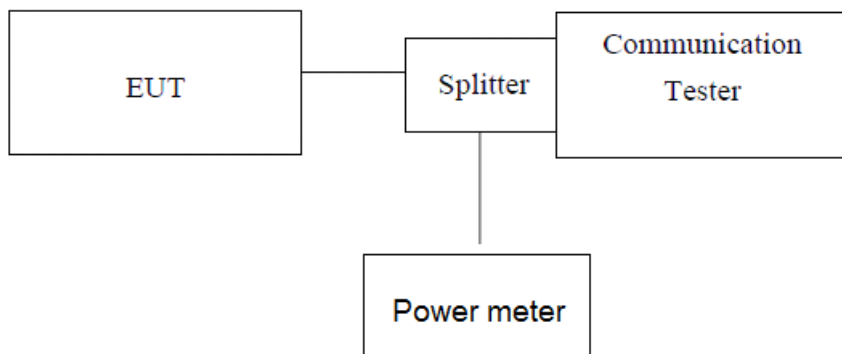
3.1. Conducted Output Power

LIMIT

According to §27.50 (d) (4): Fixed, mobile, and portable (hand- held) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP.

According to §27.50 (h) (2): Mobile and other user stations. Mo-bile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.

TEST CONFIGURATION



Note: Measurement setup for testing on Antenna connector

TEST PROCEDURE

1. The transmitter output port was connected to base station.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator, the path loss was compensated to the results for each measurement.
3. Set EUT at maximum power through base station.
4. Select lowest, middle, and highest channels for each band and different modulation.
5. Measure the maximum RMS burst power using RMS detector by spectrum

TEST RESULTS

LTE FDD Band 4					
TX Channel Bandwidth	RB Configuration		Frequency (MHz)	Average Power [dBm]	
	Size	Offset		QPSK	16QAM
1.4 MHz	1	0	1710.7	23.67	22.89
			1732.5	23.71	22.90
			1754.3	23.47	22.50
	1	3	1710.7	23.68	22.94
			1732.5	23.76	23.00
			1754.3	23.52	22.57
	1	5	1710.7	23.58	22.81
			1732.5	23.66	22.95
			1754.3	23.40	22.48
	3	0	1710.7	23.67	22.78
			1732.5	23.76	22.76
			1754.3	23.40	22.37
	3	2	1710.7	23.70	22.70
			1732.5	23.77	22.78
			1754.3	23.42	22.39
	3	3	1710.7	23.67	22.71

	6	0	1732.5	23.73	22.75
			1754.3	23.39	22.37
			1710.7	22.75	21.64
			1732.5	22.82	21.61
			1754.3	22.54	21.59
3 MHz	1	0	1711.5	23.65	22.90
			1732.5	23.68	22.94
			1753.5	23.67	22.77
	1	7	1711.5	23.63	22.79
			1732.5	23.75	22.94
			1753.5	23.51	22.65
	1	14	1711.5	23.56	22.87
			1732.5	23.81	22.97
			1753.5	23.45	22.61
	8	0	1711.5	22.70	21.67
			1732.5	22.78	21.69
			1753.5	22.61	21.52
	8	4	1711.5	22.67	21.47
			1732.5	22.78	21.76
			1753.5	22.55	21.67
	8	7	1711.5	22.63	21.61
			1732.5	22.78	21.72
			1753.5	22.54	21.44
	15	0	1711.5	22.73	21.48
			1732.5	22.80	21.73
			1753.5	22.52	21.67
5 MHz	1	0	1712.5	23.64	22.88
			1732.5	23.64	22.86
			1752.5	23.55	22.77
	1	12	1712.5	22.74	22.77
			1732.5	23.69	22.90
			1752.5	23.49	22.59
	1	24	1712.5	23.69	22.84
			1732.5	23.81	23.00
			1752.5	23.46	22.62
	12	0	1712.5	22.72	21.86
			1732.5	22.70	21.86
			1752.5	22.63	21.75
	12	6	1712.5	22.65	21.82
			1732.5	22.75	21.89
			1752.5	22.49	21.64
	12	13	1712.5	22.63	21.77
			1732.5	22.79	21.94
			1752.5	22.51	21.66
	25	0	1712.5	22.69	21.71
			1732.5	22.76	21.77
			1752.5	22.47	21.53
10 MHz	1	0	1715.0	23.66	22.82
			1732.5	23.72	22.88
			1750.0	23.60	22.83
	1	24	1715.0	23.58	22.80
			1732.5	23.88	23.00
			1750.0	23.44	22.65
	1	49	1715.0	23.57	22.81
			1732.5	23.75	22.96

	25	0	1750.0	23.29	22.44
			1715.0	22.66	21.68
			1732.5	22.78	21.67
			1750.0	22.58	21.59
	25	12	1715.0	22.69	21.62
			1732.5	22.78	21.75
			1750.0	22.52	21.55
	25	25	1715.0	22.65	21.62
			1732.5	22.82	21.80
			1750.0	22.49	21.50
	50	0	1715.0	22.76	21.76
			1732.5	22.80	21.77
			1750.0	22.56	21.60
15 MHz	1	0	1717.5	23.60	22.90
			1732.5	23.63	22.87
			1747.5	23.69	23.00
	1	37	1717.5	23.57	22.81
			1732.5	23.67	23.00
			1747.5	23.40	22.77
	1	74	1717.5	23.59	22.91
			1732.5	23.78	23.04
			1747.5	23.24	22.53
	37	0	1717.5	22.77	21.73
			1732.5	22.81	21.72
			1747.5	22.77	21.80
	37	18	1717.5	22.75	21.63
			1732.5	22.87	21.83
			1747.5	22.77	21.60
	37	38	1717.5	22.70	21.62
			1732.5	22.90	21.80
			1747.5	22.51	21.51
	75	0	1717.5	22.87	21.83
			1732.5	22.85	21.84
			1747.5	22.81	21.78
20 MHz	1	0	1720.0	23.55	23.30
			1732.5	23.59	22.53
			1745.0	23.62	23.26
	1	49	1720.0	23.51	22.58
			1732.5	23.97	22.77
			1745.0	23.65	23.05
	1	99	1720.0	23.56	22.50
			1732.5	23.68	22.64
			1745.0	23.16	22.33
	50	0	1720.0	22.79	21.72
			1732.5	22.82	21.76
			1745.0	22.81	21.79
	50	25	1720.0	22.68	21.67
			1732.5	22.87	21.85
			1745.0	22.64	21.68
	50	50	1720.0	22.66	21.64
			1732.5	22.84	21.84
			1745.0	22.47	21.53
	100	0	1720.0	22.81	21.75
			1732.5	22.80	21.76
			1745.0	22.68	21.70

LTE FDD Band 7					
TX Channel Bandwidth	RB Configuration		Frequency (MHz)	Average Power [dBm]	
	Size	Offset		QPSK	16QAM
5 MHz	1	0	2502.5	22.03	21.06
			2535.0	21.99	21.29
			2567.5	21.94	21.00
	1	12	2502.5	22.22	21.22
			2535.0	21.96	21.06
			2567.5	22.19	20.86
	1	24	2502.5	21.94	20.85
			2535.0	21.89	20.82
			2567.5	21.95	21.09
	12	0	2502.5	20.90	19.72
			2535.0	20.92	19.84
			2567.5	20.97	19.99
	12	6	2502.5	21.08	19.59
			2535.0	21.08	19.96
			2567.5	20.82	19.79
	12	13	2502.5	21.00	19.71
			2535.0	20.89	20.09
			2567.5	21.05	19.62
	25	0	2502.5	20.90	19.69
			2535.0	21.02	19.89
			2567.5	20.87	19.57
10 MHz	1	0	2505.0	21.90	21.07
			2535.0	21.84	20.66
			2565.0	21.97	20.55
	1	24	2505.0	21.95	21.08
			2535.0	22.08	20.82
			2565.0	21.86	20.86
	1	49	2505.0	22.03	20.98
			2535.0	22.15	20.83
			2565.0	21.74	20.82
	25	0	2505.0	20.96	20.01
			2535.0	20.86	19.72
			2565.0	20.58	19.80
	25	12	2505.0	20.73	20.07
			2535.0	20.69	20.10
			2565.0	21.08	20.02
	25	25	2505.0	20.97	19.88
			2535.0	20.92	19.91
			2565.0	20.59	20.13
	50	0	2505.0	21.00	19.95
			2535.0	20.56	19.56
			2565.0	20.38	19.53
15 MHz	1	0	2507.5	22.18	20.78
			2535.0	22.21	20.98
			2562.5	22.13	20.85
	1	37	2507.5	21.89	20.99
			2535.0	21.96	21.00
			2562.5	21.96	20.90
	1	74	2507.5	22.02	20.75
			2535.0	21.78	20.72
			2562.5	21.77	20.62

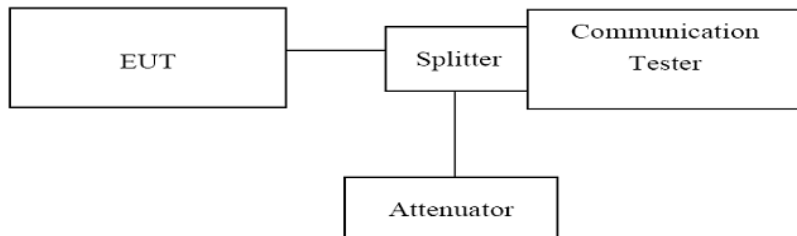
	37	0	2507.5	20.75	20.05
			2535.0	20.92	19.68
			2562.5	20.71	19.96
	37	18	2507.5	20.71	19.75
			2535.0	20.71	19.86
			2562.5	20.59	19.69
	37	38	2507.5	20.70	19.96
			2535.0	20.87	19.77
			2562.5	20.65	19.53
	75	0	2507.5	20.48	19.81
			2535.0	20.54	19.90
			2562.5	20.38	19.49
20 MHz	1	0	2510.0	22.24	20.73
			2535.0	22.18	20.82
			2560.0	21.85	20.75
	1	49	2510.0	22.07	20.79
			2535.0	22.15	20.81
			2560.0	22.00	20.86
	1	99	2510.0	22.22	20.79
			2535.0	22.17	20.57
			2560.0	1.70	20.80
	50	0	2510.0	20.65	19.88
			2535.0	20.65	19.44
			2560.0	20.78	19.72
	50	25	2510.0	20.85	19.44
			2535.0	20.53	19.45
			2560.0	20.89	19.44
	50	50	2510.0	20.92	19.51
			2535.0	20.92	19.63
			2560.0	20.56	19.64
	100	0	2510.0	20.82	19.72
			2535.0	20.69	19.72
			2560.0	20.51	19.67

3.2. Peak-to-Average Ratio (PAR)

LIMIT

The Peak-to-Average Ratio (PAR) of the transmission may not exceed 13 dB.

TEST CONFIGURATION



TEST PROCEDURE

1. Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
2. Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
3. Set the number of counts to a value that stabilizes the measured CCDF curve;
4. Set the measurement interval as follows:
 - 1). for continuous transmissions, set to 1 ms,
 - 2). for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
5. Record the maximum PAPR level associated with a probability of 0.1%.

TEST RESULTS

LTE FDD Band 4					
TX Channel Bandwidth	RB Configuration		Frequency (MHz)	PAPR [dB]	
	Size	Offset		QPSK	16QAM
1.4 MHz	1	0	1710.7	4.04	4.89
			1732.5	3.69	4.66
			1754.3	1.98	3.30
	1	3	1710.7	3.98	4.84
			1732.5	3.62	4.54
			1754.3	1.68	3.13
	1	5	1710.7	4.06	4.92
			1732.5	3.70	4.69
			1754.3	1.58	3.11
	3	0	1710.7	3.95	4.94
			1732.5	3.62	4.56
			1754.3	2.10	3.34
	3	2	1710.7	3.94	5.00
			1732.5	3.57	4.56
			1754.3	1.83	3.21
	3	3	1710.7	3.99	5.08
			1732.5	3.67	4.62
			1754.3	1.94	3.22
	6	0	1710.7	4.98	5.95
			1732.5	4.75	5.72
			1754.3	3.61	4.70

3 MHz	1	0	1711.5	3.75	4.64
			1732.5	3.45	4.33
			1753.5	2.27	3.53
	1	7	1711.5	3.77	4.72
			1732.5	3.40	4.30
			1753.5	1.94	3.30
	1	14	1711.5	3.82	4.84
			1732.5	3.40	4.30
			1753.5	1.46	3.05
	8	0	1711.5	4.81	5.68
			1732.5	4.60	5.49
			1753.5	3.58	4.71
	8	4	1711.5	4.76	5.74
			1732.5	4.50	5.43
			1753.5	3.29	4.54
	8	7	1711.5	4.87	5.78
			1732.5	4.61	5.48
			1753.5	3.44	4.61
	15	0	1711.5	5.09	6.04
			1732.5	4.89	5.79
			1753.5	4.09	5.08
5 MHz	1	0	1712.5	3.92	4.91
			1732.5	3.70	4.92
			1752.5	3.03	4.18
	1	12	1712.5	3.94	5.03
			1732.5	3.47	4.72
			1752.5	2.36	3.67
	1	24	1712.5	3.93	5.04
			1732.5	3.47	4.64
			1752.5	1.82	3.28
	12	0	1712.5	4.76	5.70
			1732.5	4.71	5.60
			1752.5	3.99	4.97
	12	6	1712.5	4.79	5.68
			1732.5	4.53	5.48
			1752.5	3.67	4.69
	12	13	1712.5	4.86	5.77
			1732.5	4.55	5.47
			1752.5	3.56	4.63
	25	0	1712.5	5.09	5.94
			1732.5	4.94	5.81
			1752.5	4.33	5.22
10 MHz	1	0	1715.0	4.35	5.21
			1732.5	4.18	5.14
			1750.0	3.51	4.55
	1	24	1715.0	4.40	5.40
			1732.5	3.94	4.86
			1750.0	3.26	4.47
	1	49	1715.0	4.50	5.39
			1732.5	3.72	4.65
			1750.0	1.96	3.52
	25	0	1715.0	5.23	6.15
			1732.5	5.01	5.95
			1750.0	4.66	5.58
	25	12	1715.0	5.17	6.08



			1732.5	4.82	5.77
			1750.0	4.31	5.31
			1715.0	5.26	6.15
			1732.5	4.86	5.76
			1750.0	4.21	5.21
	25	25	1715.0	5.34	6.08
			1732.5	5.08	5.97
			1750.0	4.72	5.60
			1717.5	5.33	5.62
			1732.5	5.40	5.96
15 MHz	1	0	1747.5	4.96	5.06
			1717.5	4.46	5.42
			1732.5	3.80	4.03
	1	37	1747.5	3.41	4.34
			1717.5	5.47	6.02
			1732.5	5.04	5.53
	1	74	1747.5	5.61	5.74
			1717.5	4.73	5.94
			1732.5	4.70	5.91
	37	0	1747.5	4.57	5.75
			1717.5	5.25	6.11
			1732.5	4.93	5.78
	37	18	1747.5	4.66	5.51
			1717.5	4.69	5.98
			1732.5	4.54	5.82
	37	38	1747.5	4.48	5.67
			1717.5	4.90	6.19
			1732.5	4.92	6.14
	75	0	1747.5	4.84	6.03
			1720.0	1.68	1.66
20 MHz	1	0	1732.5	1.73	1.73
			1745.0	1.59	1.52
			1720.0	4.31	5.27
	1	49	1732.5	3.83	4.80
			1745.0	3.38	4.40
			1720.0	1.59	1.60
	1	99	1732.5	1.64	1.49
			1745.0	2.16	1.84
			1720.0	5.55	6.57
	50	0	1732.5	5.57	6.49
			1745.0	5.44	6.35
			1720.0	5.30	6.10
	50	25	1732.5	5.09	5.92
			1745.0	4.84	5.66
			1720.0	5.79	6.60
	50	50	1732.5	5.75	6.54
			1745.0	5.61	6.50
			1720.0	5.72	6.74
	100	0	1732.5	5.73	6.68
			1745.0	5.72	6.60

LTE FDD Band 7					
TX Channel Bandwidth	RB Configuration		Frequency (MHz)	PAPR [dB]	
	Size	Offset		QPSK	16QAM
5 MHz	1	0	2502.5	4.07	4.37
			2535.0	3.76	4.10
			2567.5	3.96	4.19
	1	12	2502.5	3.58	4.04
			2535.0	3.25	3.61
			2567.5	3.53	3.73
	1	24	2502.5	4.09	4.55
			2535.0	3.77	4.09
			2567.5	3.98	4.29
	12	0	2502.5	4.62	4.94
			2535.0	4.16	4.48
			2567.5	4.45	4.73
	12	6	2502.5	4.42	4.75
			2535.0	3.86	4.17
			2567.5	4.22	4.49
	12	13	2502.5	4.60	4.93
			2535.0	4.17	4.47
			2567.5	4.48	4.76
	25	0	2502.5	4.87	5.28
			2535.0	4.55	4.89
			2567.5	4.72	5.09
10 MHz	1	0	2505.0	4.04	4.41
			2535.0	3.72	4.05
			2565.0	4.22	4.26
	1	24	2505.0	3.68	3.98
			2535.0	3.19	3.53
			2565.0	3.43	3.52
	1	49	2505.0	4.31	4.47
			2535.0	3.85	4.10
			2565.0	3.93	4.34
	25	0	2505.0	4.80	5.17
			2535.0	4.59	4.92
			2565.0	4.79	5.13
	25	12	2505.0	4.60	4.94
			2535.0	4.12	4.40
			2565.0	4.46	4.76
	25	25	2505.0	4.93	5.30
			2535.0	4.54	4.86
			2565.0	4.74	5.08
	50	0	2505.0	5.08	5.56
			2535.0	4.87	5.29
			2565.0	5.03	5.47
15 MHz	1	0	2507.5	5.34	6.08
			2535.0	3.59	5.61
			2562.5	4.87	5.99
	1	37	2507.5	3.92	4.37
			2535.0	3.23	3.59
			2562.5	3.66	4.03
	1	74	2507.5	5.02	4.91
			2535.0	5.61	5.95
			2562.5	5.72	5.72
	37	0	2507.5	4.66	5.78

	37	18	2535.0	4.53	5.59
			2562.5	4.71	5.72
			2507.5	4.91	5.34
			2535.0	4.52	4.90
			2562.5	4.80	5.18
	37	38	2507.5	4.67	5.72
			2535.0	4.61	5.61
			2562.5	4.65	5.67
	75	0	2507.5	4.90	6.08
			2535.0	4.85	5.95
			2562.5	4.87	5.99
20 MHz	1	0	2510.0	4.68	5.27
			2535.0	5.68	5.48
			2560.0	6.63	6.63
	1	49	2510.0	4.36	4.68
			2535.0	3.41	3.67
			2560.0	4.22	4.58
	1	99	2510.0	5.76	6.55
			2535.0	3.67	6.41
			2560.0	3.67	5.20
	50	0	2510.0	5.64	6.54
			2535.0	5.48	6.38
			2560.0	5.61	6.51
	50	25	2510.0	5.27	5.79
			2535.0	4.97	5.39
			2560.0	5.20	5.73
	50	50	2510.0	5.76	6.55
			2535.0	5.68	6.41
			2560.0	5.75	6.55
	100	0	2510.0	5.71	6.61
			2535.0	5.69	6.55
			2560.0	5.74	6.63

Test plots as follow:

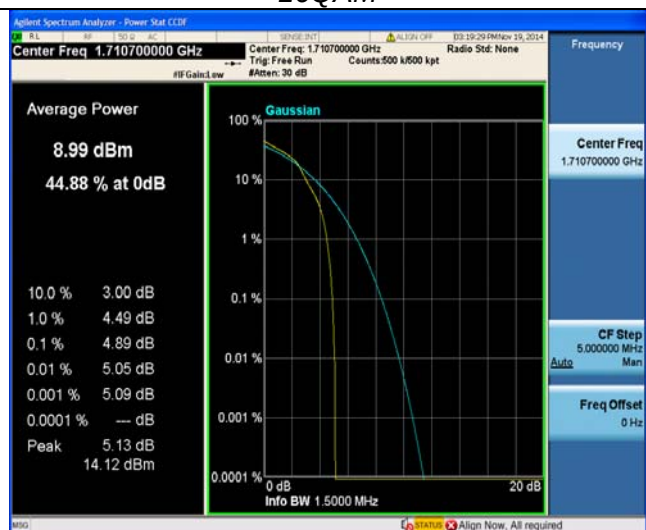
LTE FDD Band 4-1.4MHz Channel Bandwidth PAPR

Low Channel

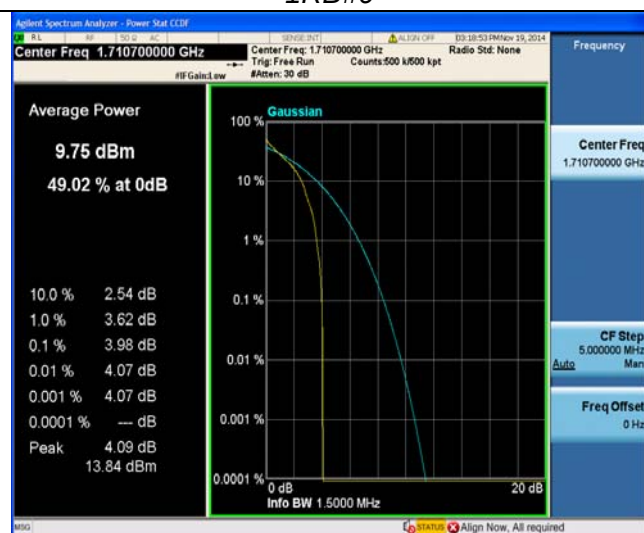
QPSK



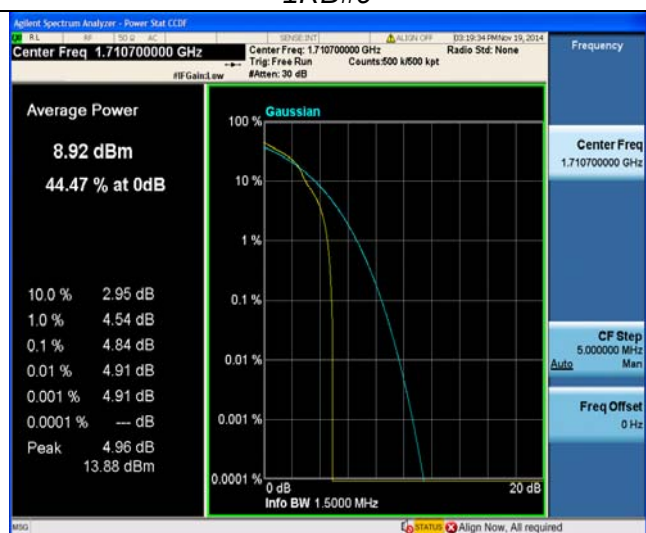
16QAM



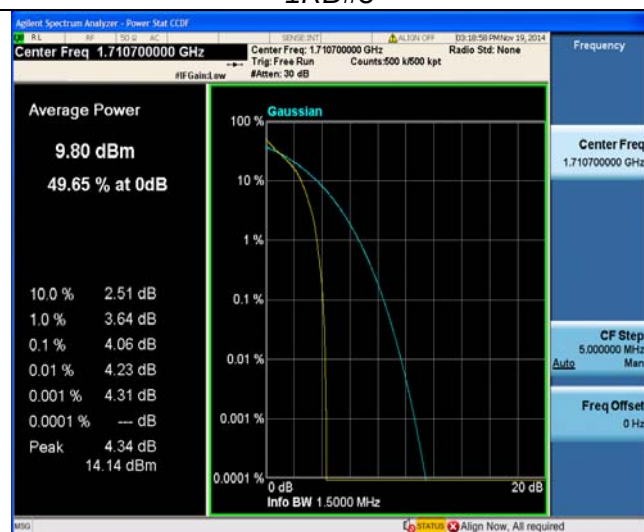
1RB#0



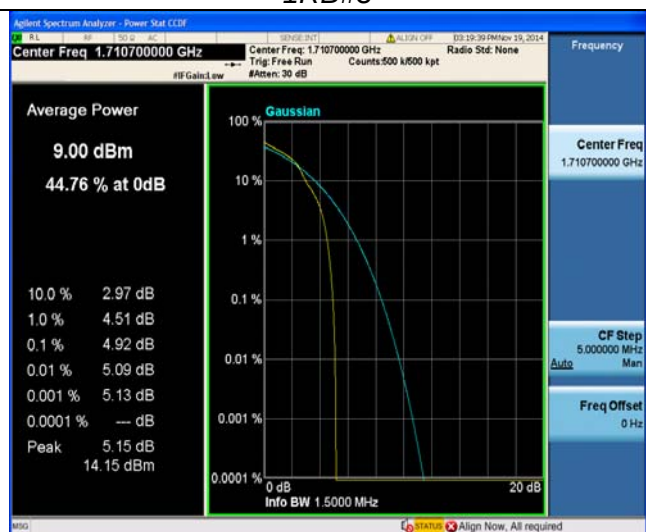
1RB#0



1RB#3



1RB#3



1RB#5

1RB#5

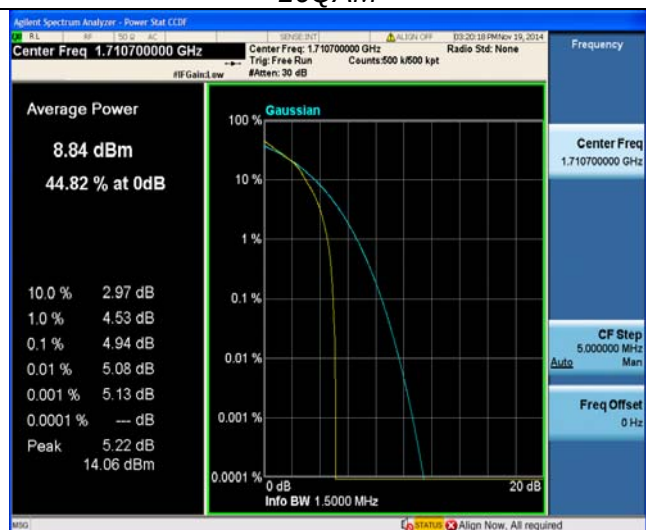
LTE FDD Band 4-1.4MHz Channel Bandwidth PAPR

Low Channel

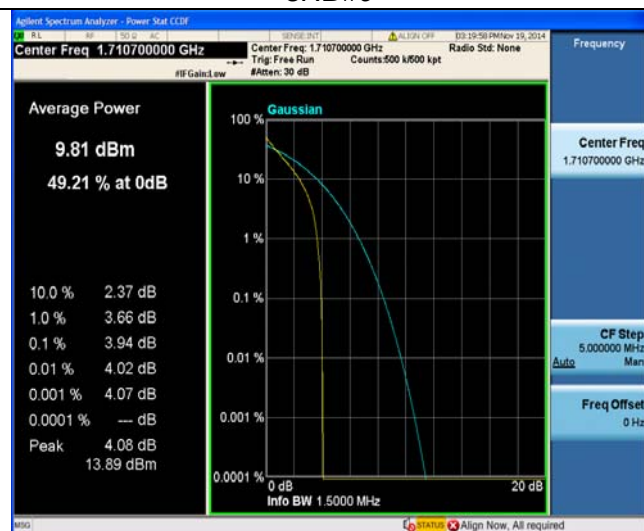
QPSK



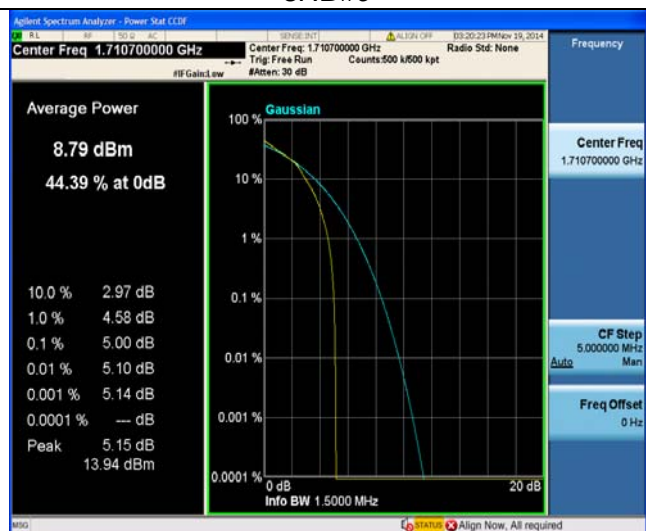
16QAM



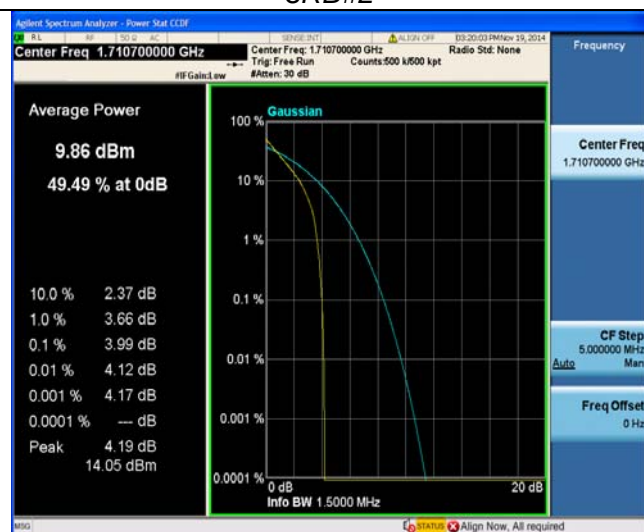
3RB#0



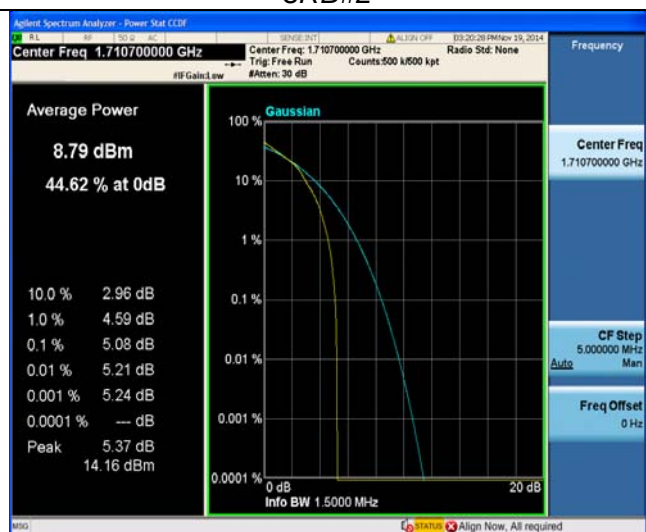
3RB#0



3RB#2



3RB#2



3RB#3

3RB#3

LTE FDD Band 4-1.4MHz Channel Bandwidth PAPR

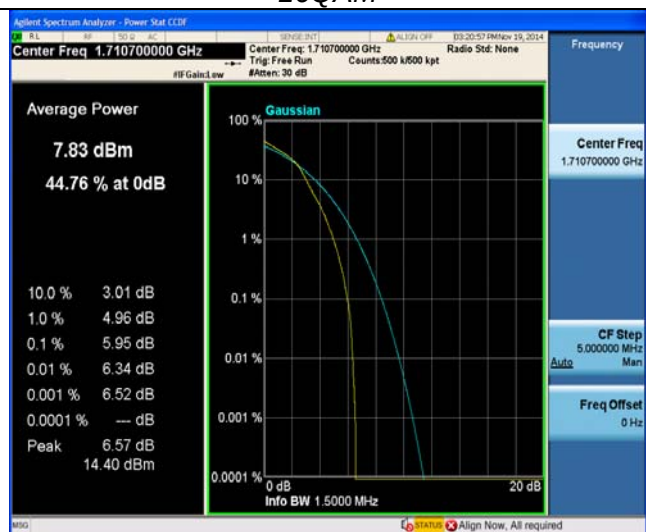
Low Channel

QPSK



6RB#0

16QAM



6RB#0

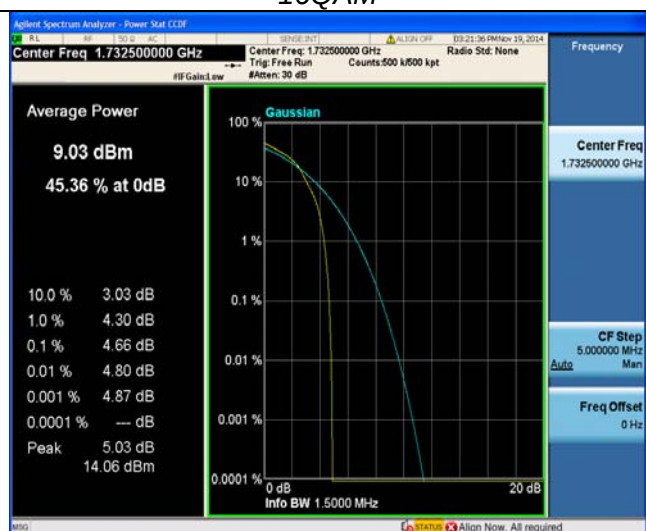
Middle Channel

QPSK



1RB#0

16QAM



1RB#0

QPSK



1RB#3

16QAM

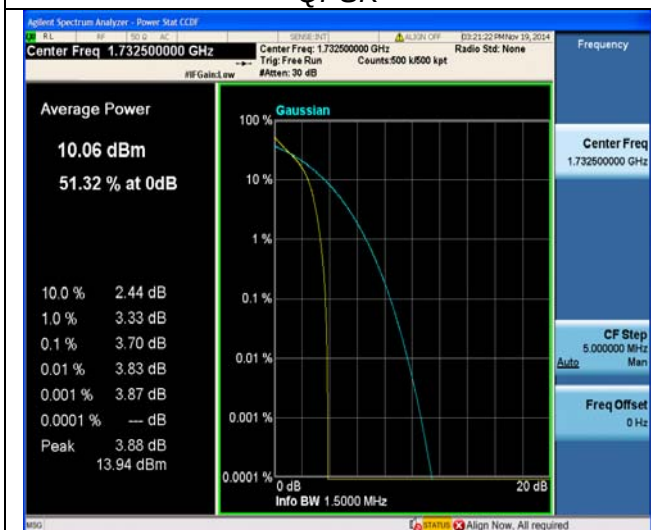


1RB#3

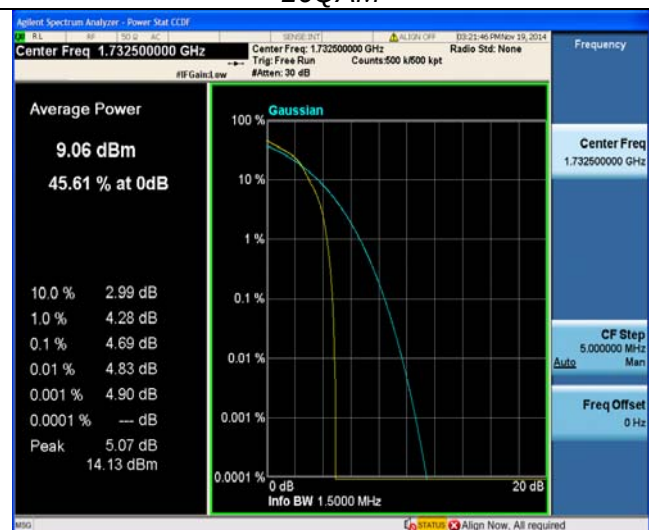
LTE FDD Band 4-1.4MHz Channel Bandwidth PAPR

Middle Channel

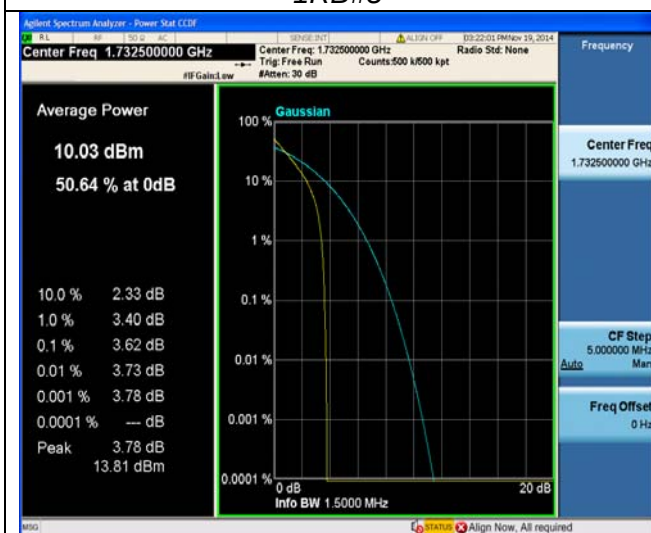
QPSK



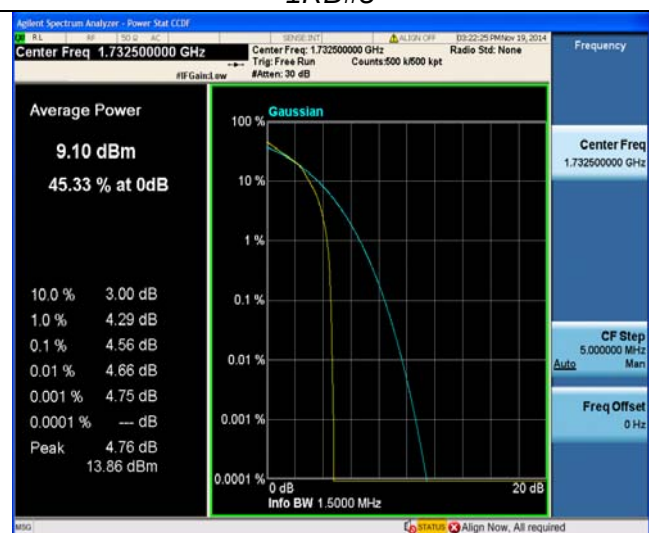
16QAM



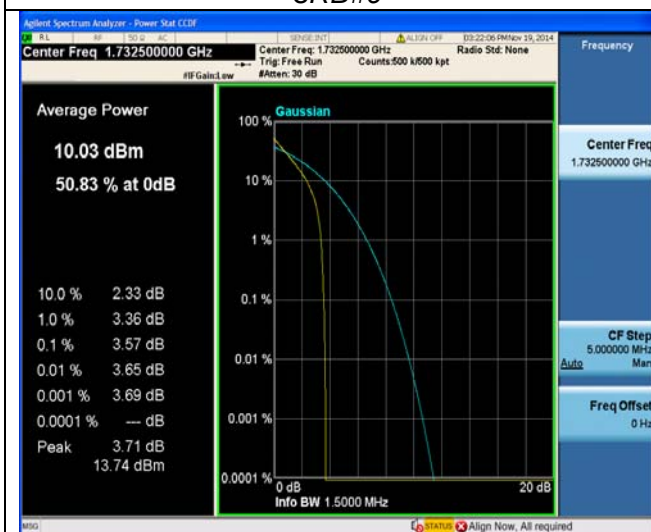
1RB#5



1RB#5



3RB#0



3RB#0



3RB#2

3RB#2

LTE FDD Band 4-1.4MHz Channel Bandwidth PAPR

Middle Channel

QPSK



16QAM



3RB#3



3RB#3



6RB#0

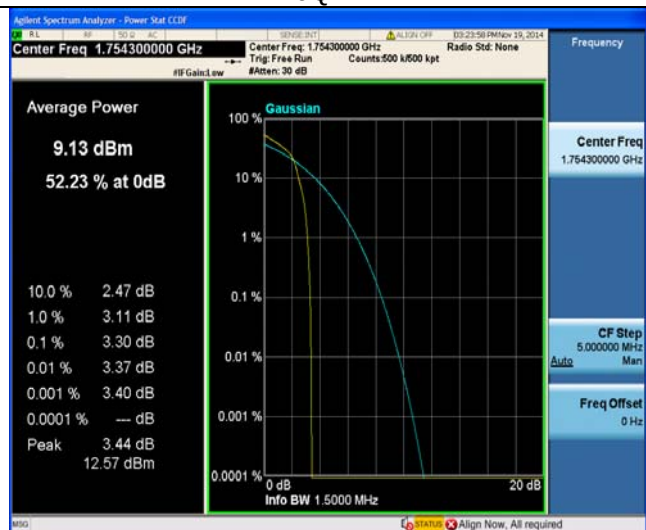
3RB#0

High Channel

QPSK



16QAM



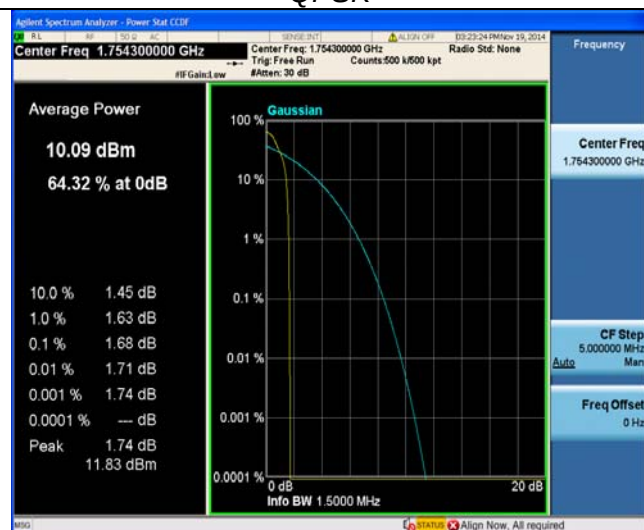
1RB#0

1RB#0

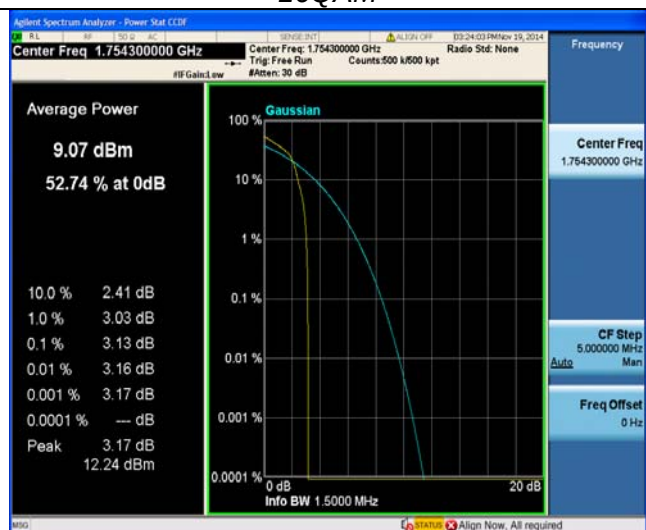
LTE FDD Band 4-1.4MHz Channel Bandwidth PAPR

High Channel

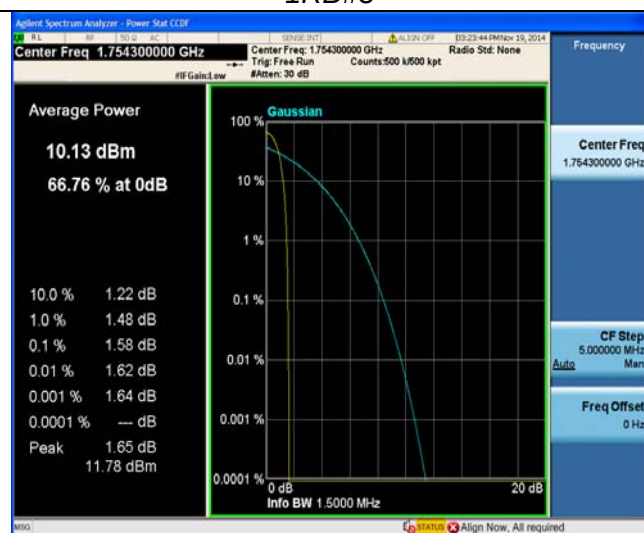
QPSK



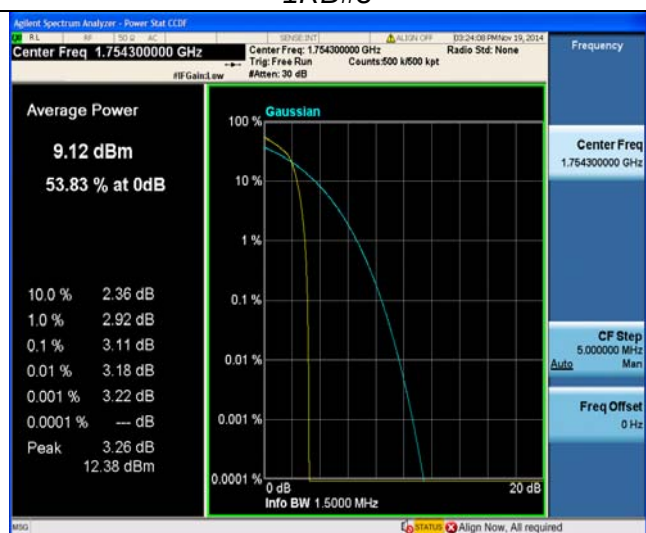
16QAM



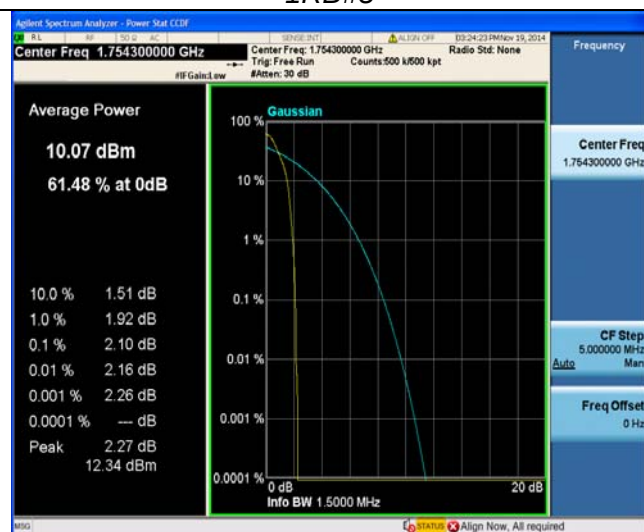
1RB#3



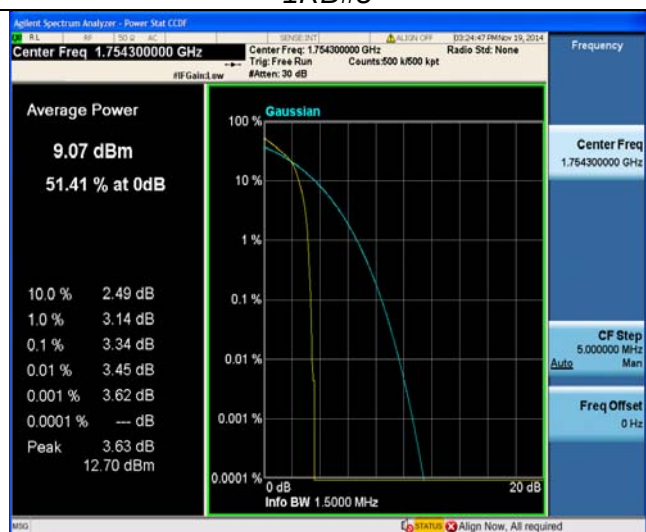
1RB#3



1RB#5



1RB#5



3RB#0

3RB#0

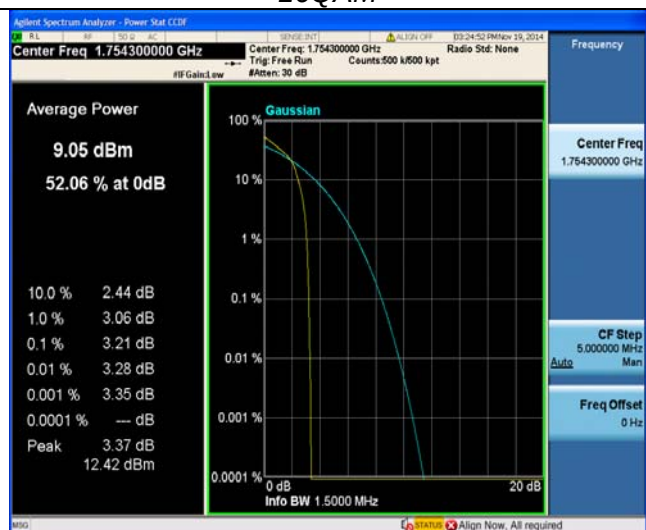
LTE FDD Band 4-1.4MHz Channel Bandwidth PAPR

High Channel

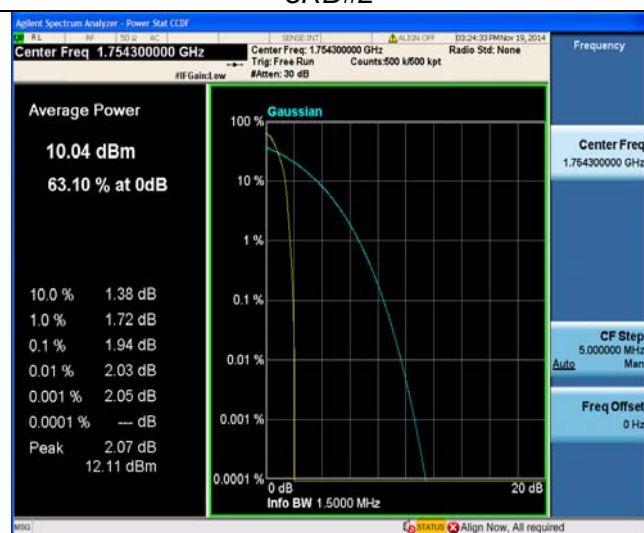
QPSK



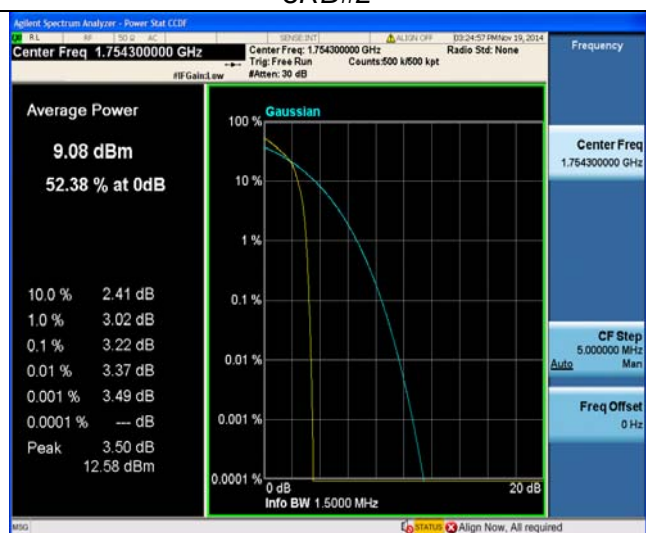
16QAM



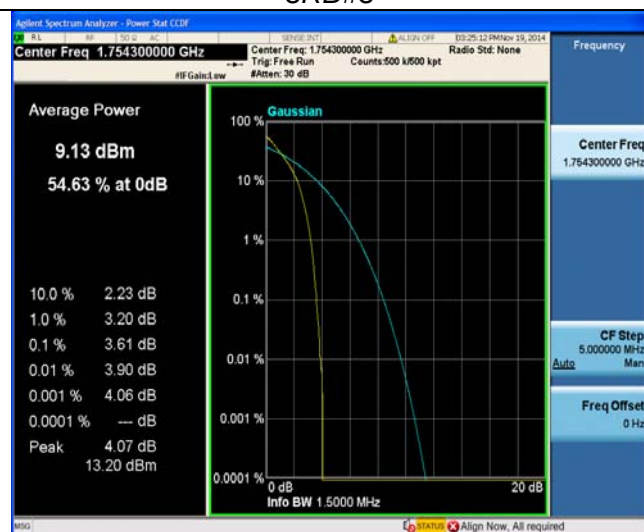
3RB#2



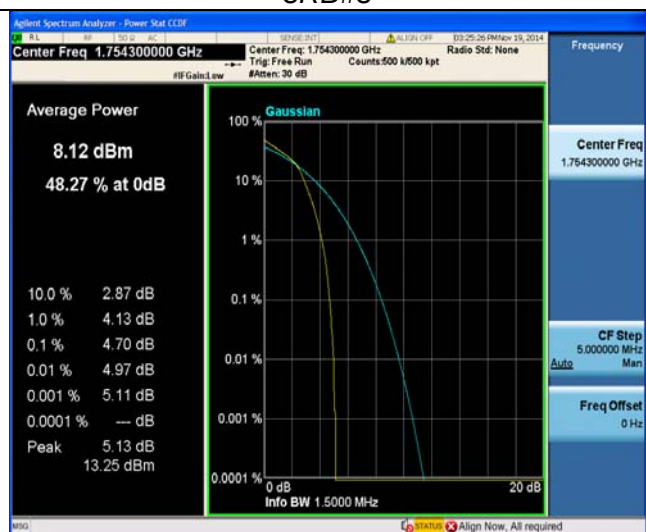
3RB#2



3RB#3



3RB#3



6RB#0

6RB#0

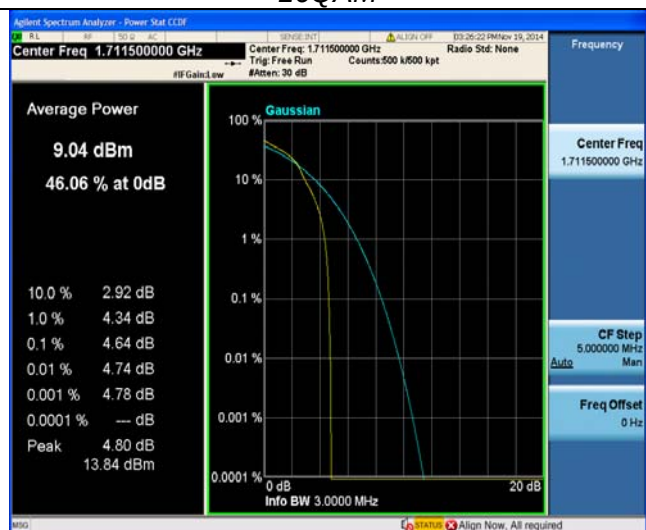
LTE FDD Band 4-3MHz Channel Bandwidth PAPR

Low Channel

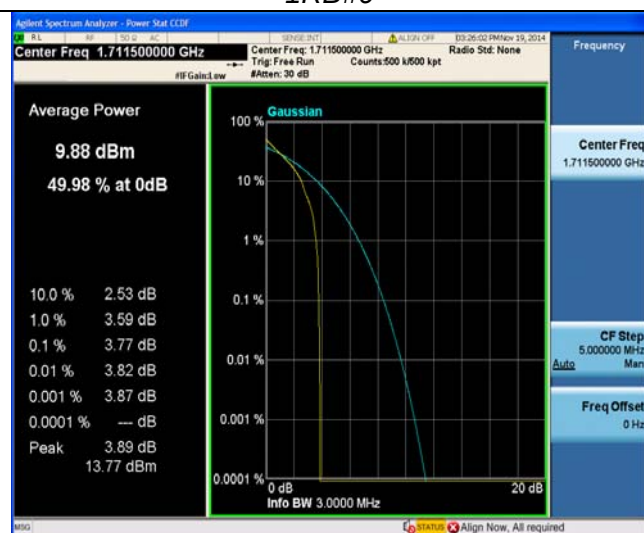
QPSK



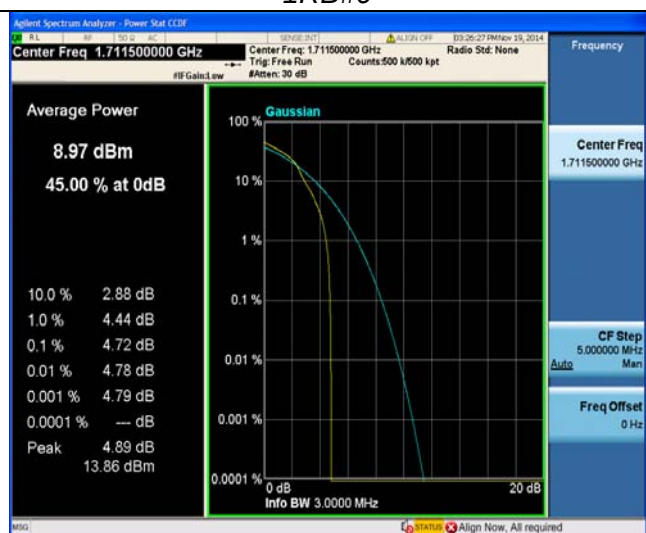
16QAM



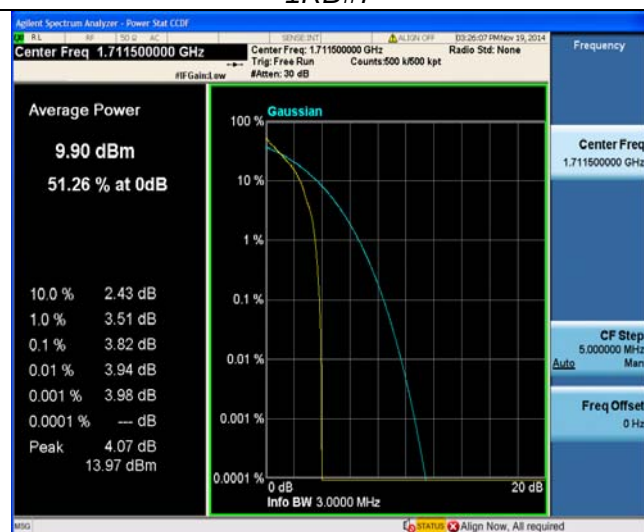
1RB#0



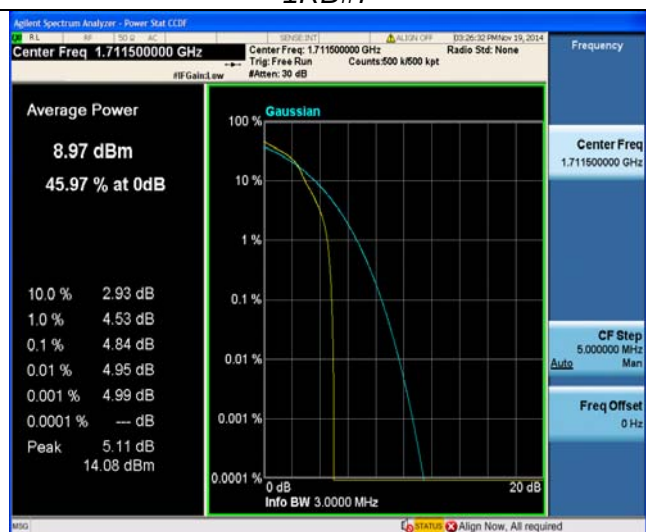
1RB#0



1RB#7



1RB#7



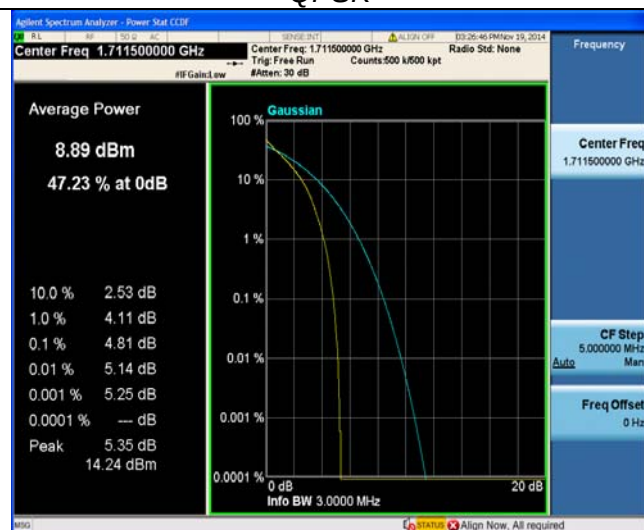
1RB#14

1RB#14

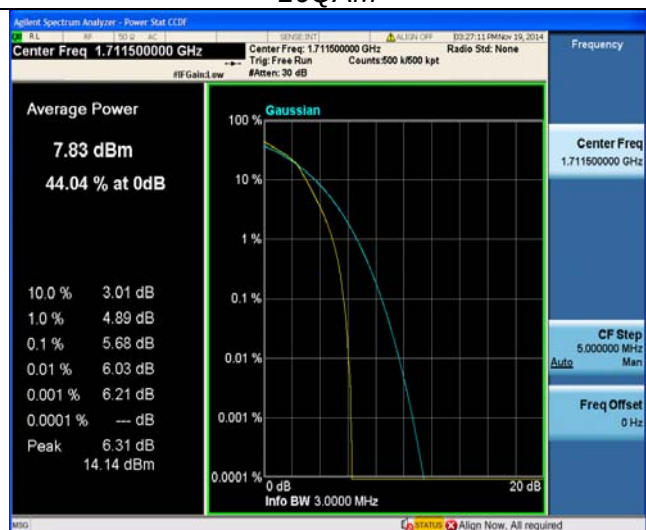
LTE FDD Band 4-3MHz Channel Bandwidth PAPR

Low Channel

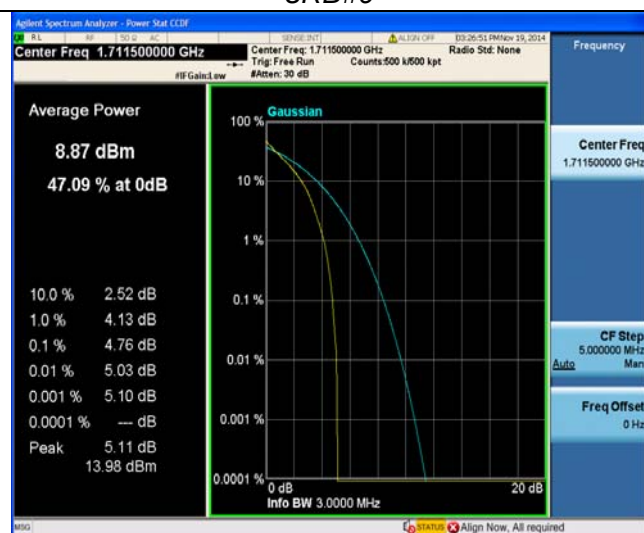
QPSK



16QAM



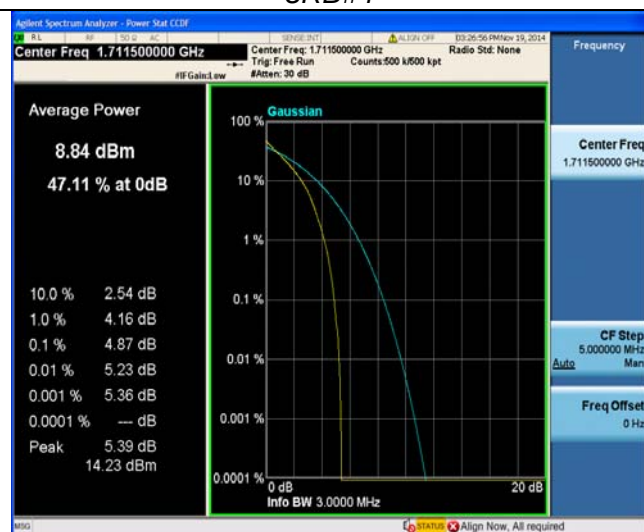
8RB#0



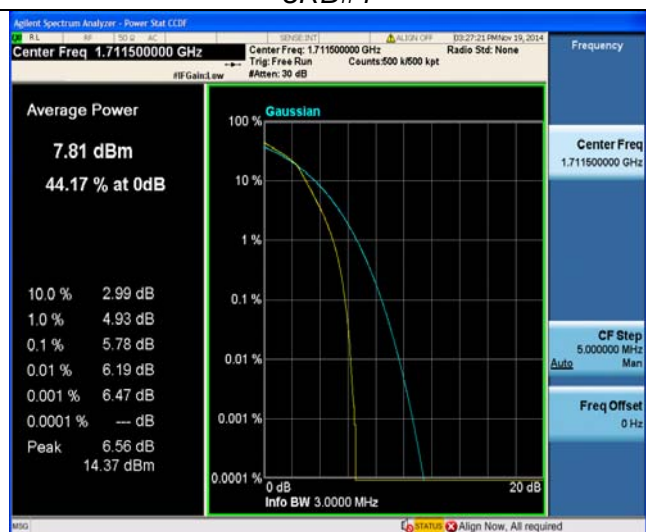
8RB#0



8RB#4



8RB#4



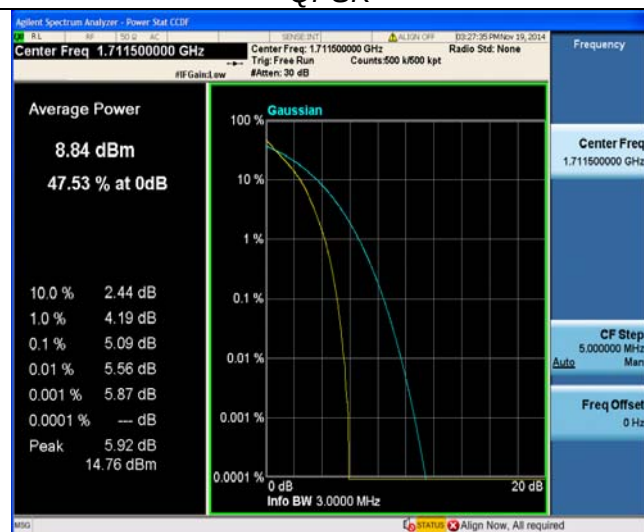
8RB#7

8RB#7

LTE FDD Band 4-3MHz Channel Bandwidth PAPR

Low Channel

QPSK



15RB#0

16QAM



15RB#0

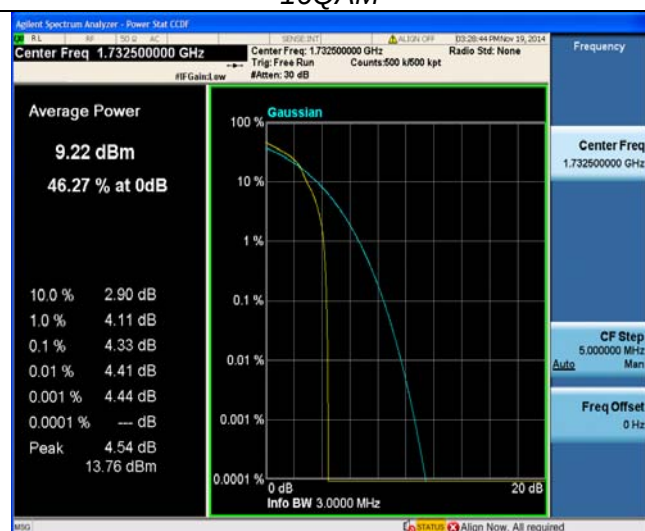
Middle Channel

QPSK



1RB#0

16QAM



1RB#0

1RB#7



1RB#7

1RB#7

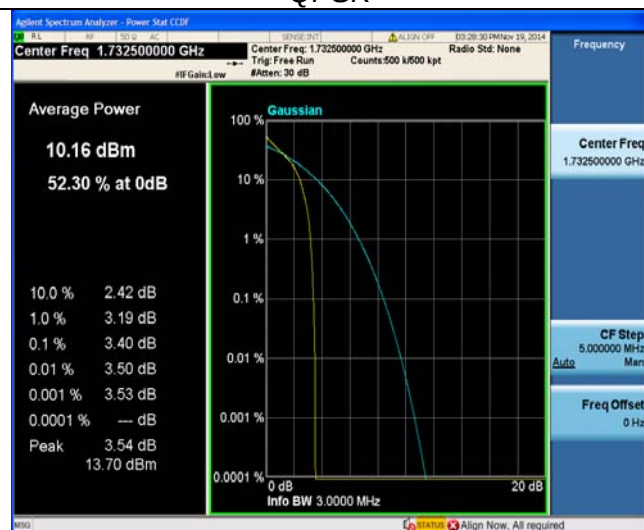


1RB#7

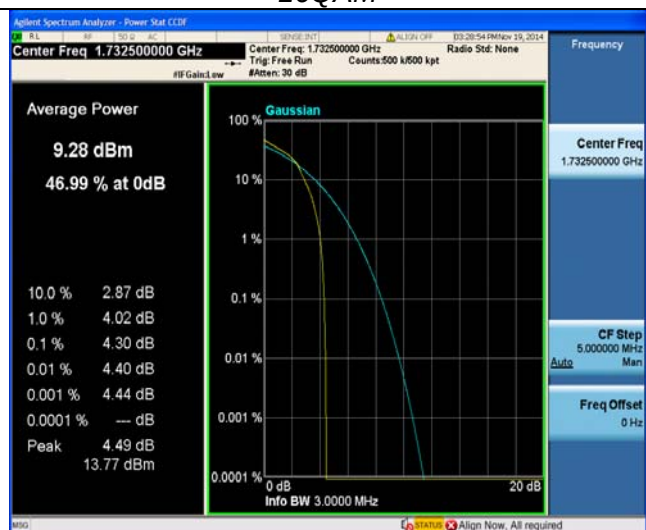
LTE FDD Band 4-3MHz Channel Bandwidth PAPR

Middle Channel

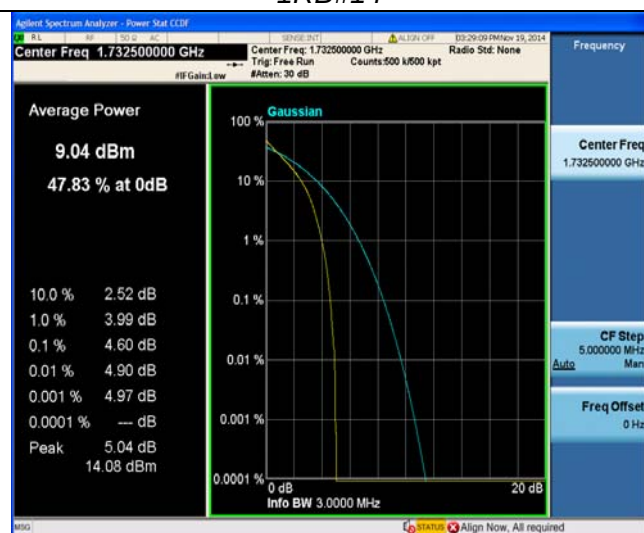
QPSK



16QAM



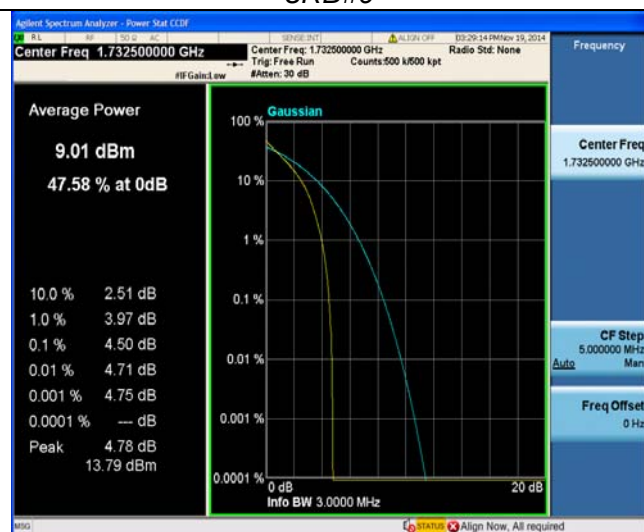
1RB#14



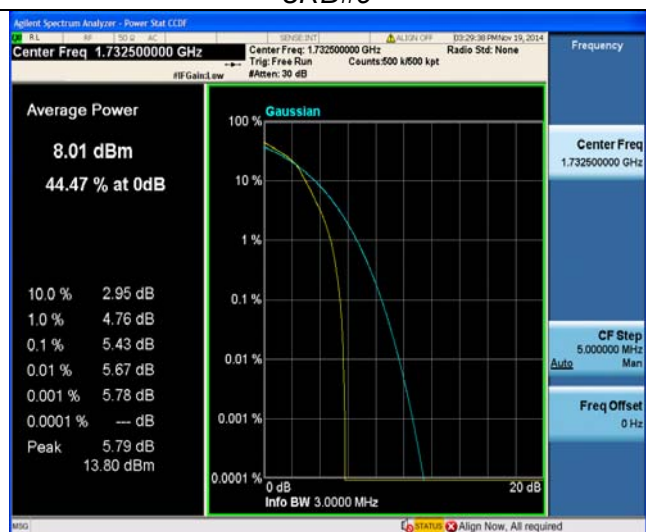
1RB#14



8RB#0



8RB#0



8RB#4

8RB#4

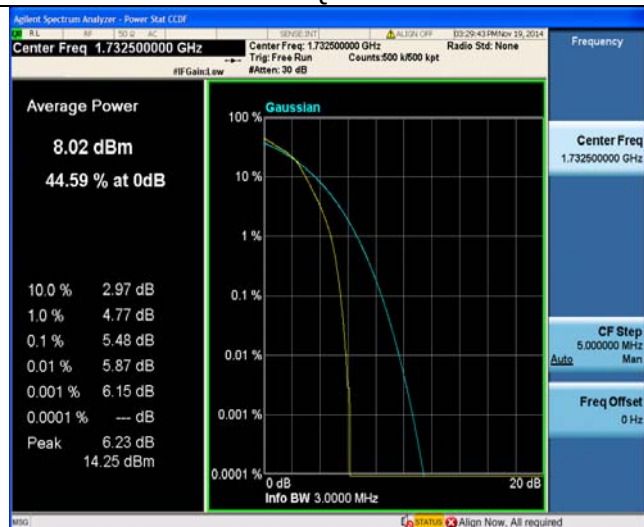
LTE FDD Band 4-3MHz Channel Bandwidth PAPR

Middle Channel

QPSK



16QAM



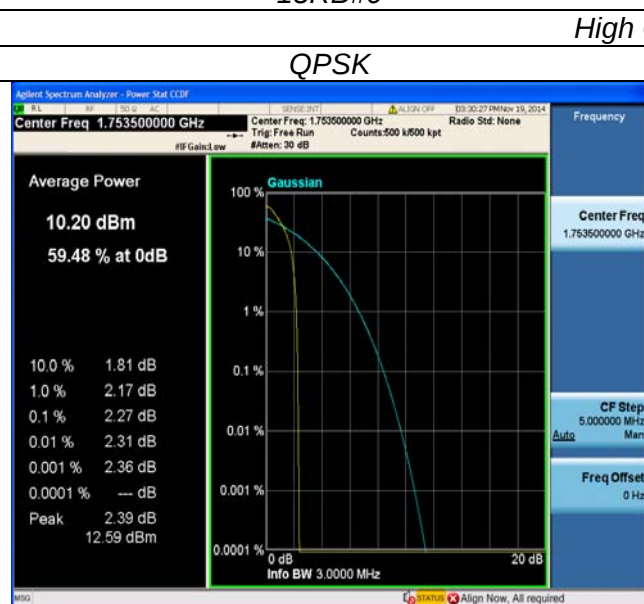
8RB#7



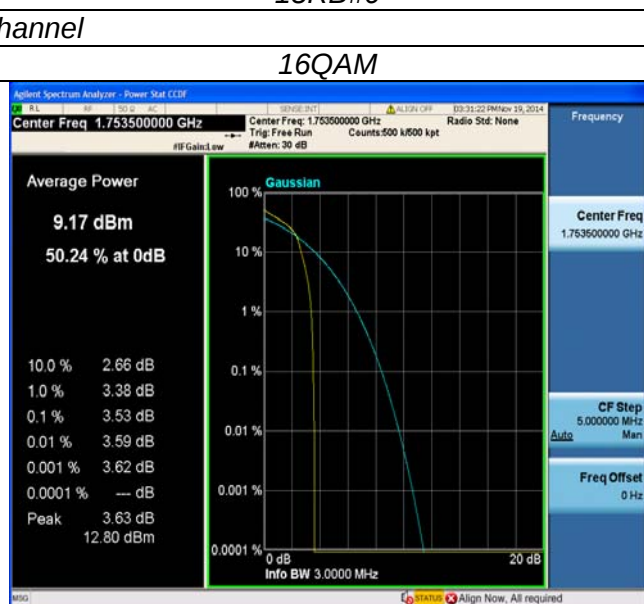
8RB#7



15RB#0

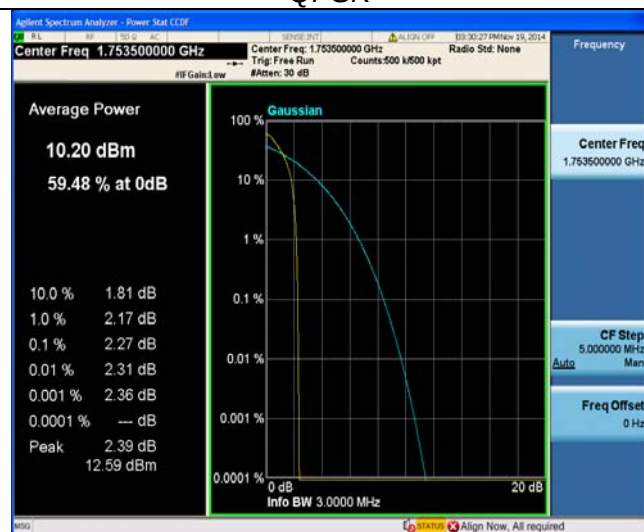


15RB#0

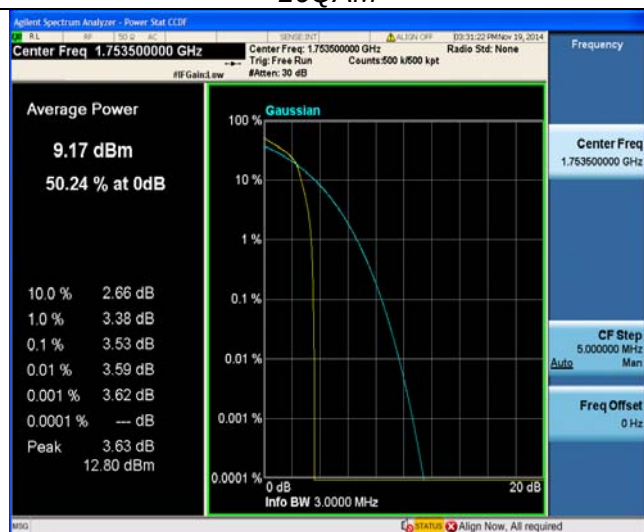


High Channel

QPSK



16QAM



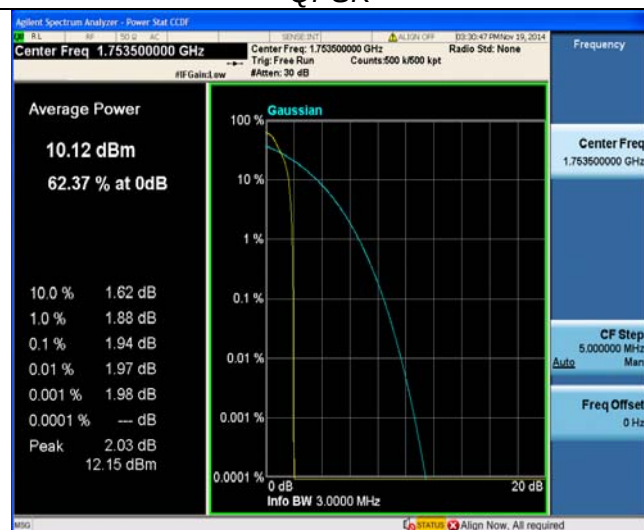
1RB#0

1RB#0

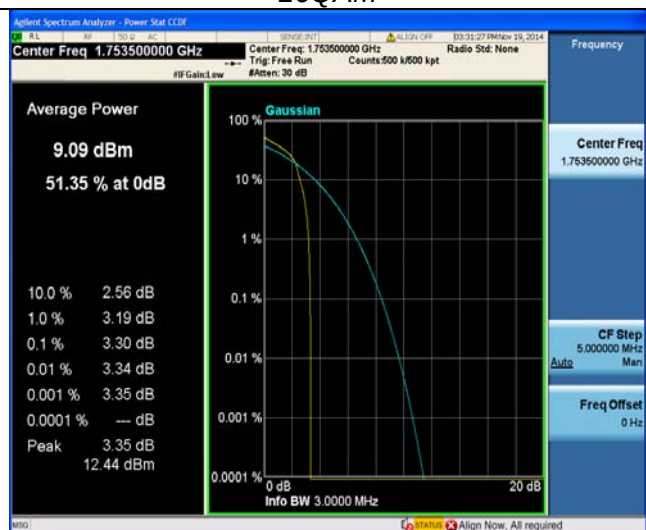
LTE FDD Band 4-3MHz Channel Bandwidth PAPR

High Channel

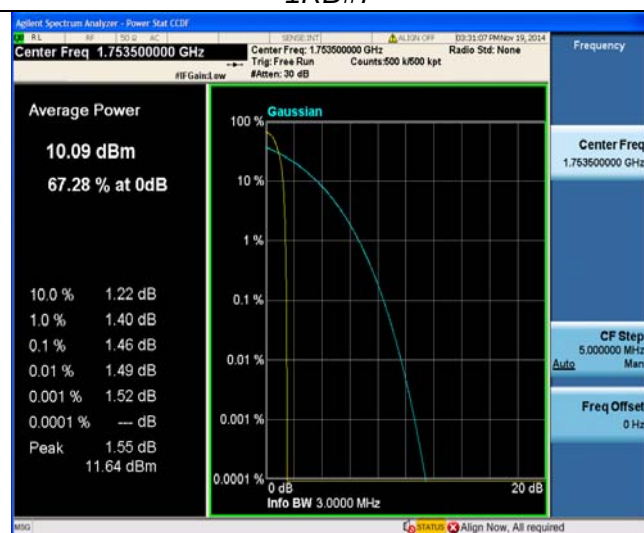
QPSK



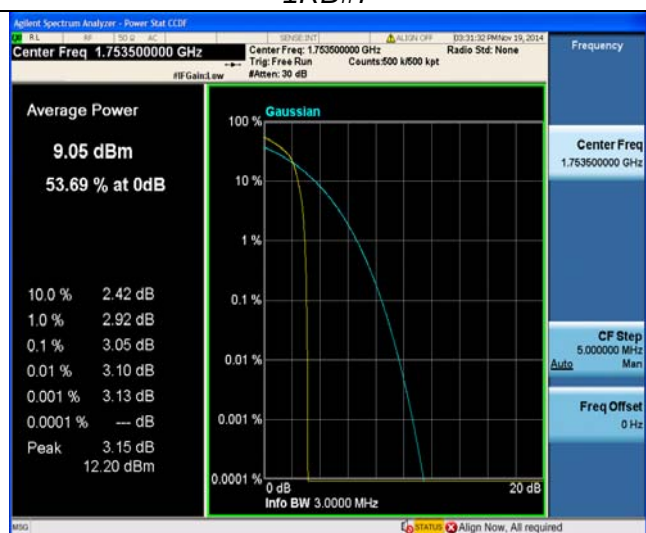
16QAM



1RB#7



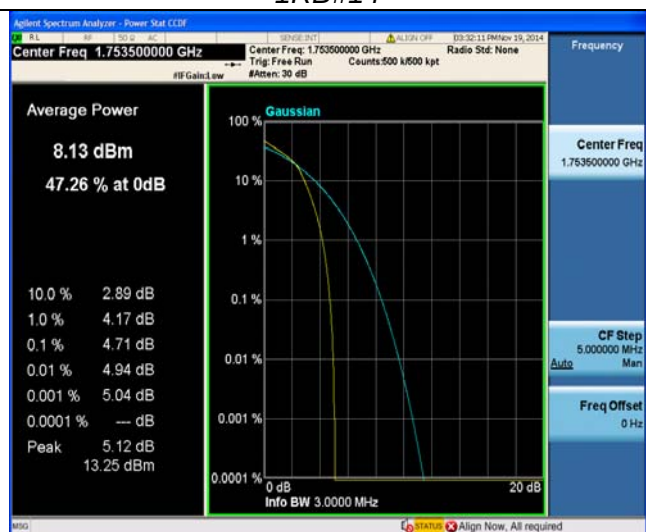
1RB#7



1RB#14



1RB#14



8RB#0

8RB#0

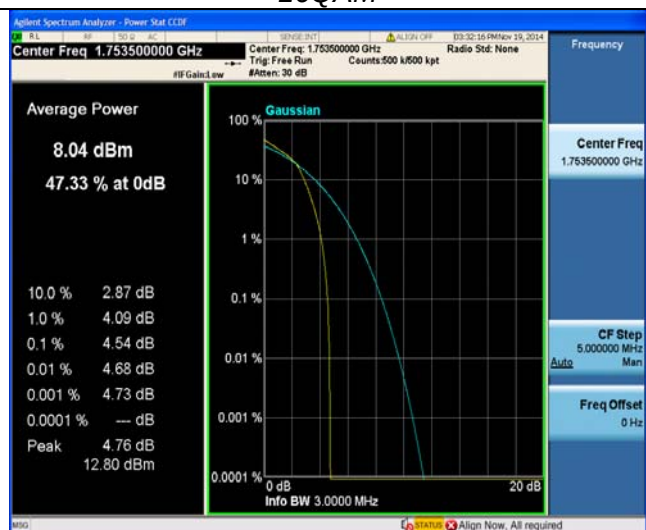
LTE FDD Band 4-3MHz Channel Bandwidth PAPR

High Channel

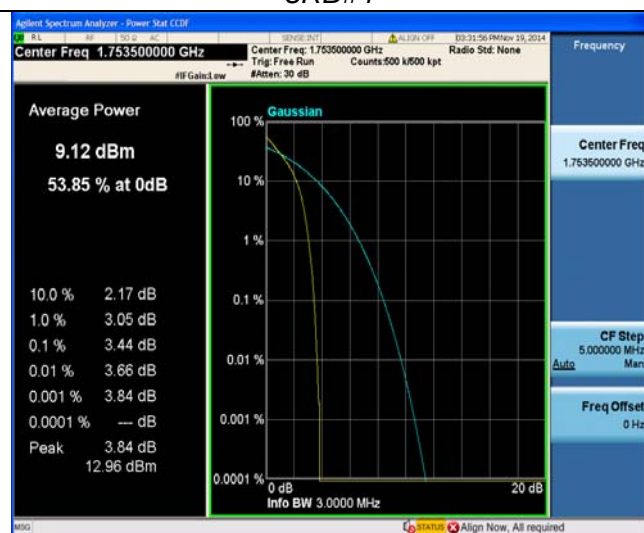
QPSK



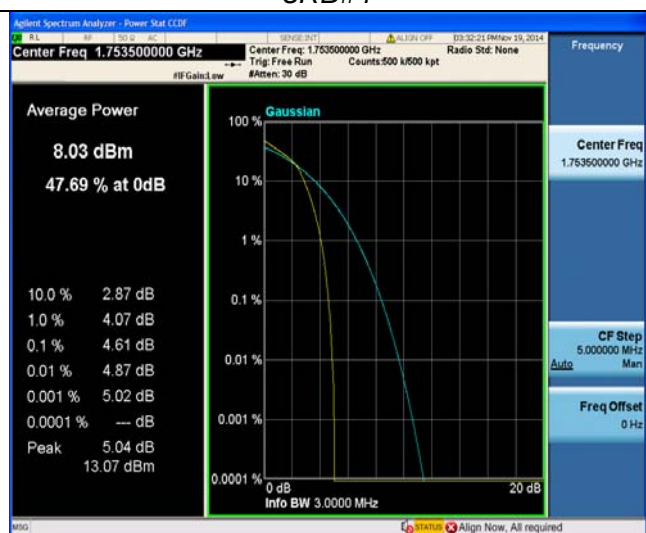
16QAM



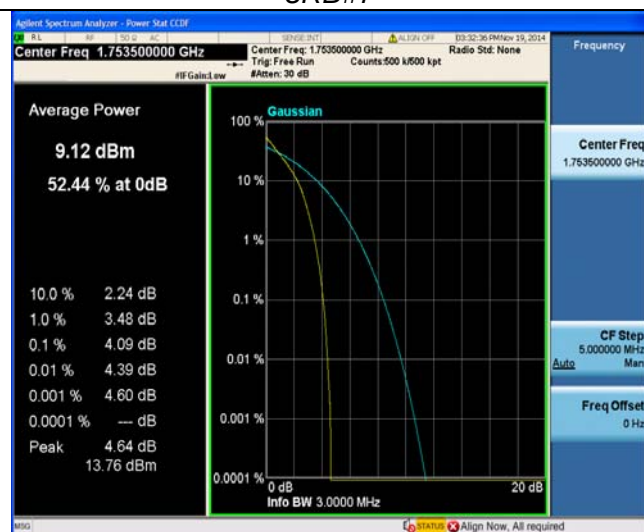
8RB#4



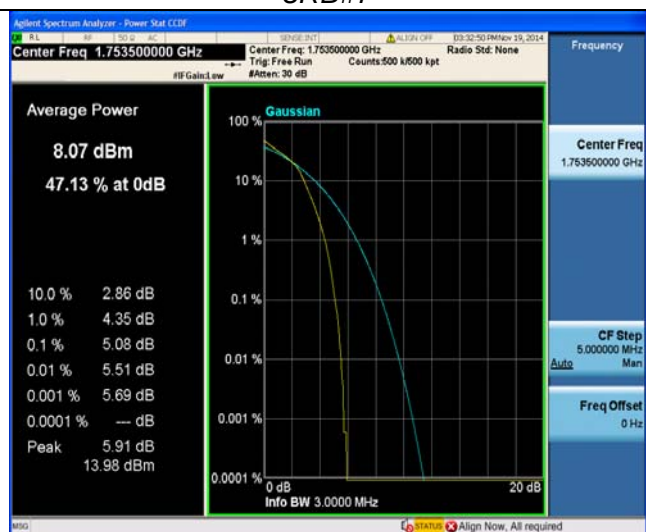
8RB#4



8RB#7



8RB#7



15RB#0

15RB#0

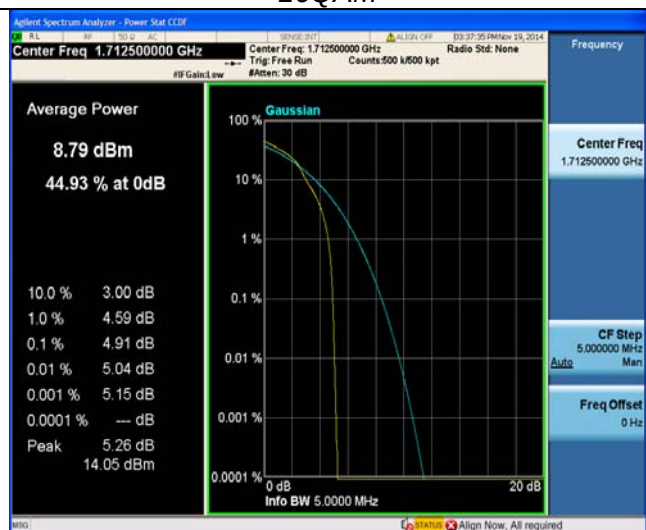
LTE FDD Band 4-5MHz Channel Bandwidth PAPR

Low Channel

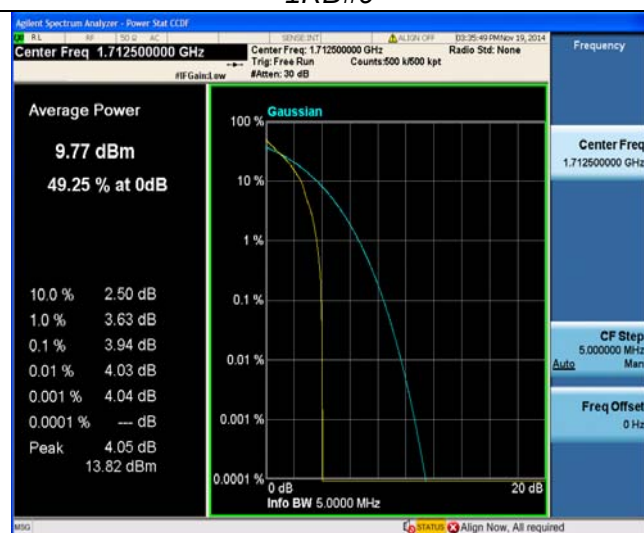
QPSK



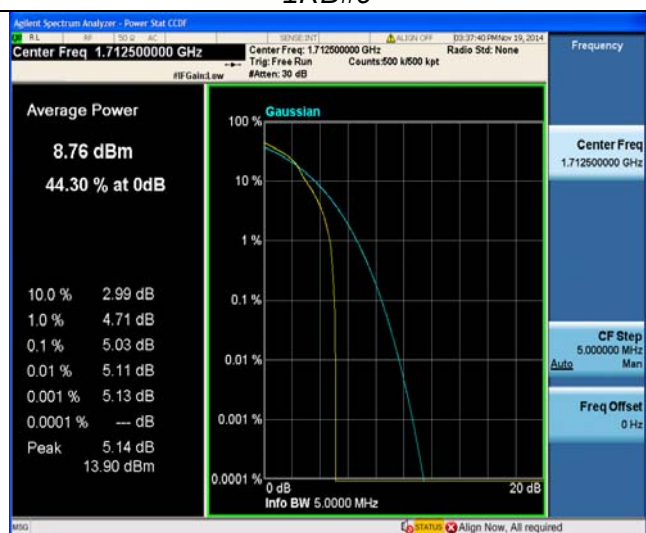
16QAM



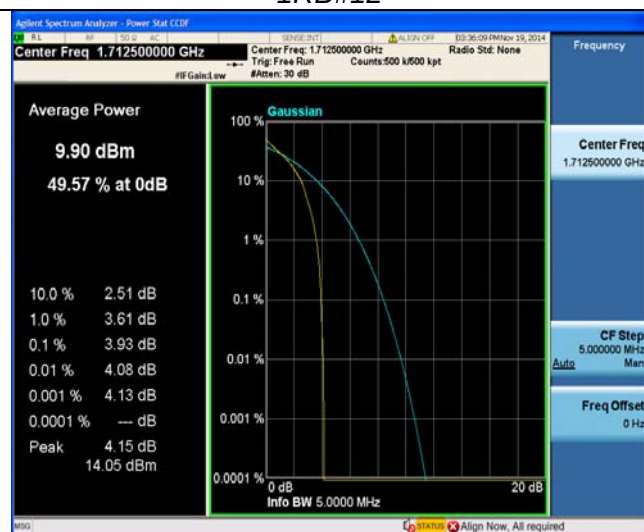
1RB#0



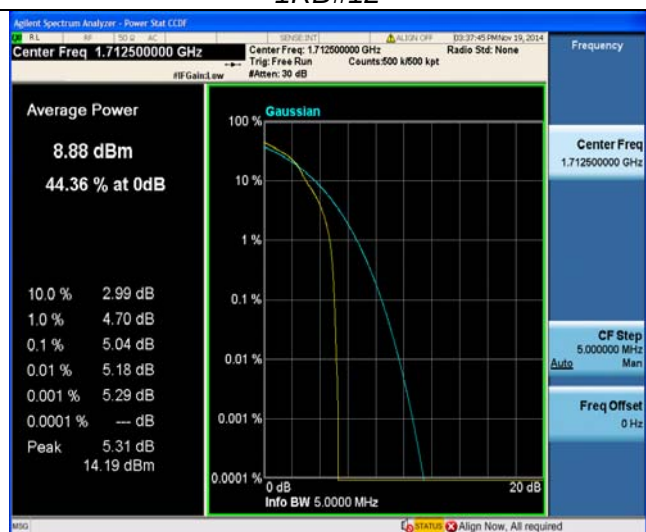
1RB#0



1RB#12



1RB#12



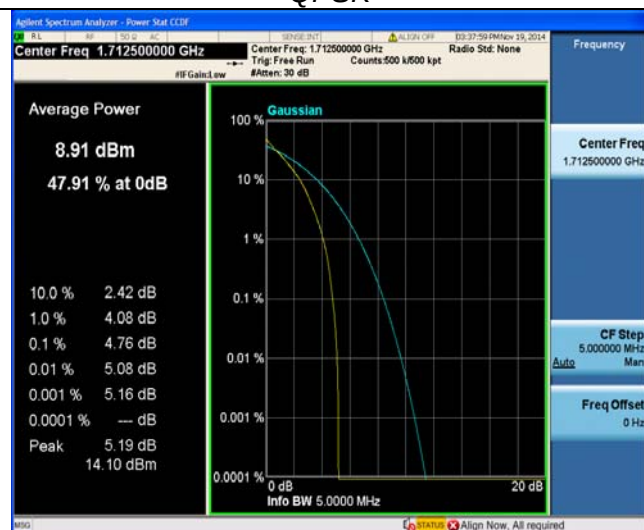
1RB#24

1RB#24

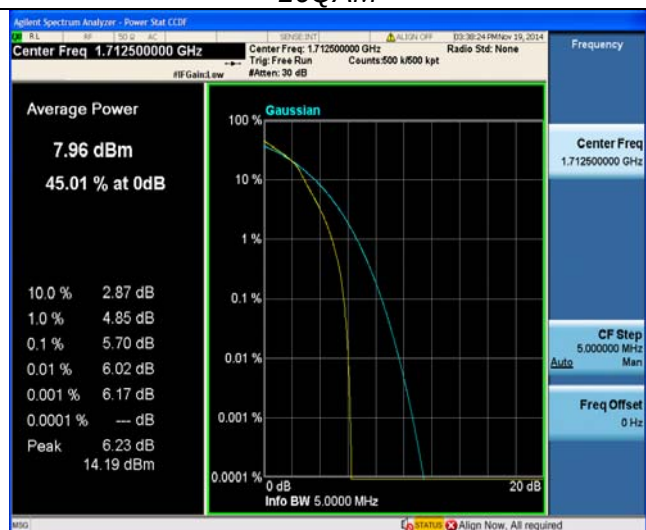
LTE FDD Band 4-5MHz Channel Bandwidth PAPR

Low Channel

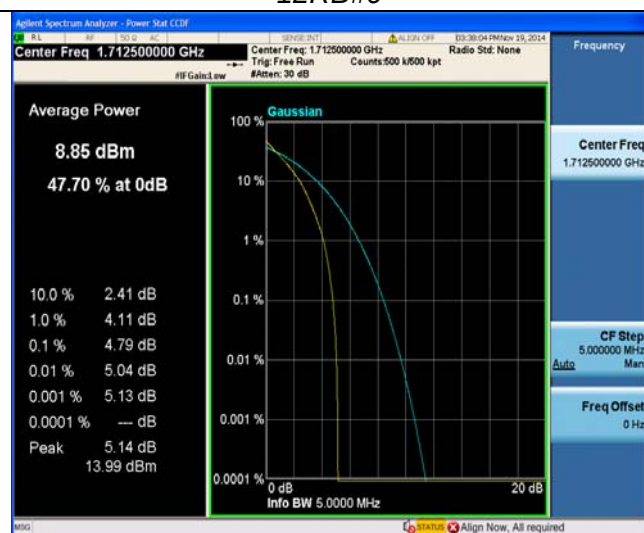
QPSK



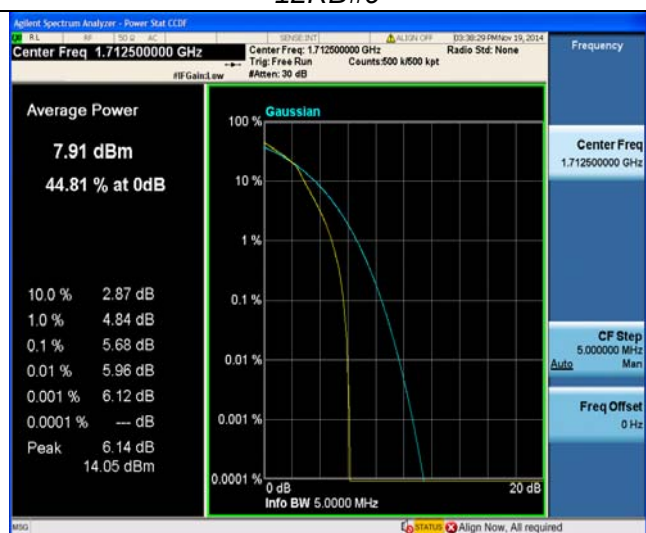
16QAM



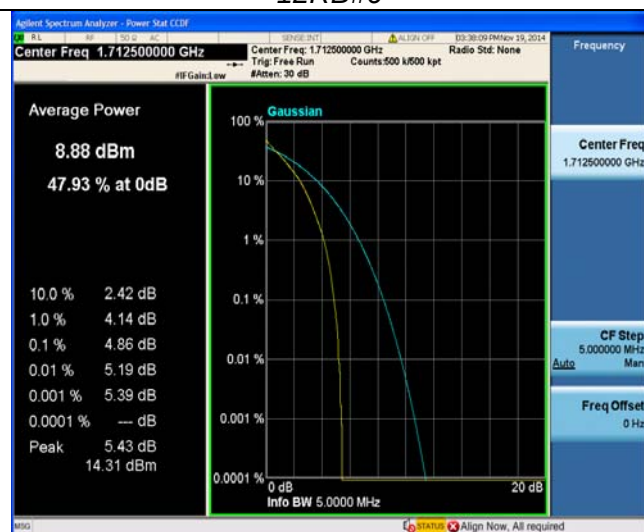
12RB#0



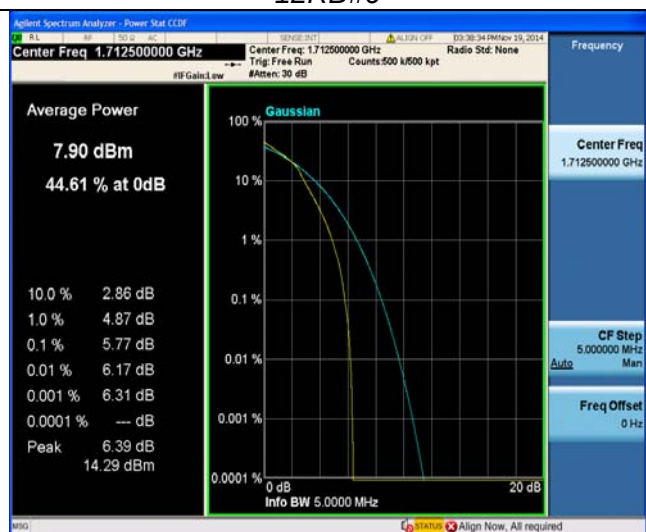
12RB#0



12RB#6



12RB#6



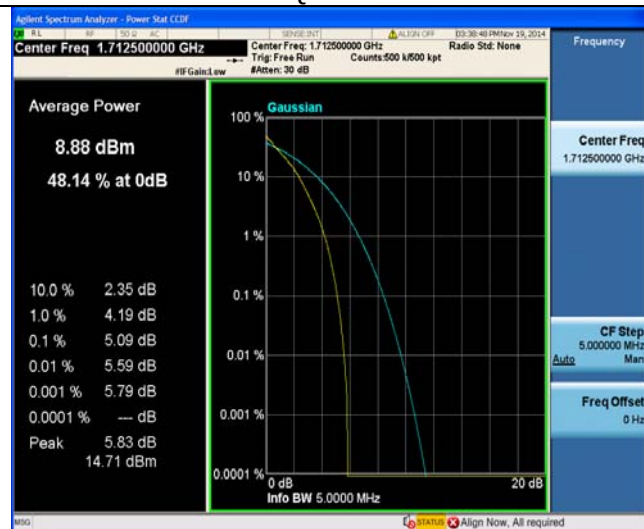
12RB#13

12RB#13

LTE FDD Band 4-5MHz Channel Bandwidth PAPR

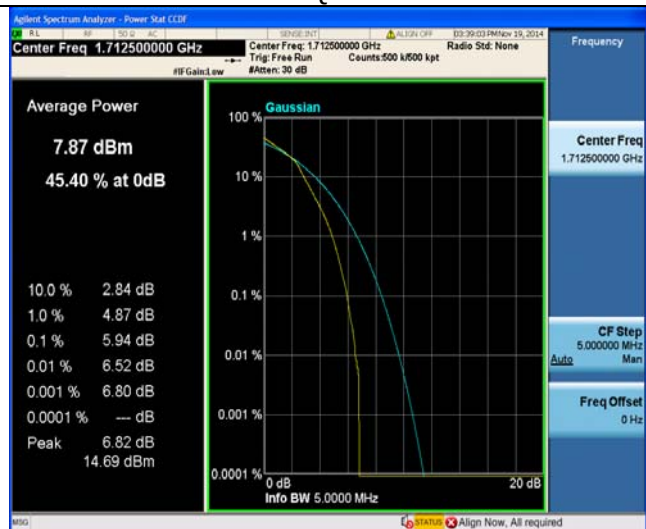
Low Channel

QPSK



25RB#0

16QAM



25RB#0

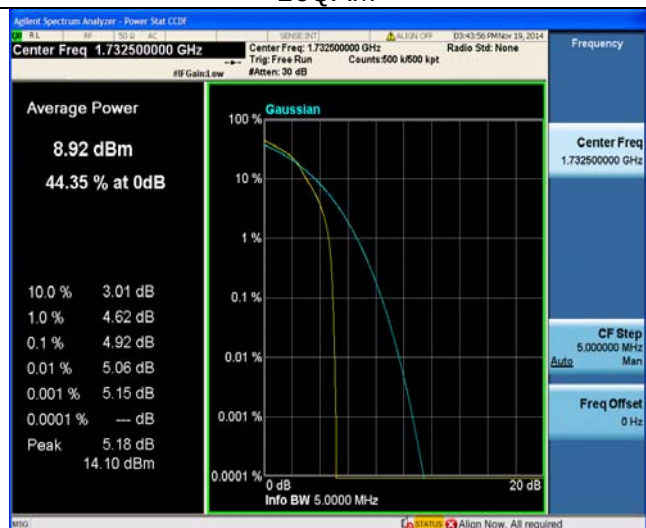
Middle Channel

QPSK



1RB#0

16QAM



1RB#0

1RB#12



1RB#12

1RB#12

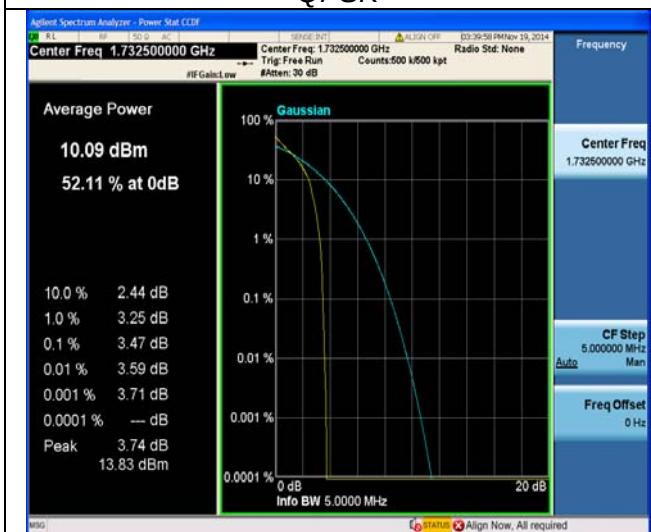


1RB#12

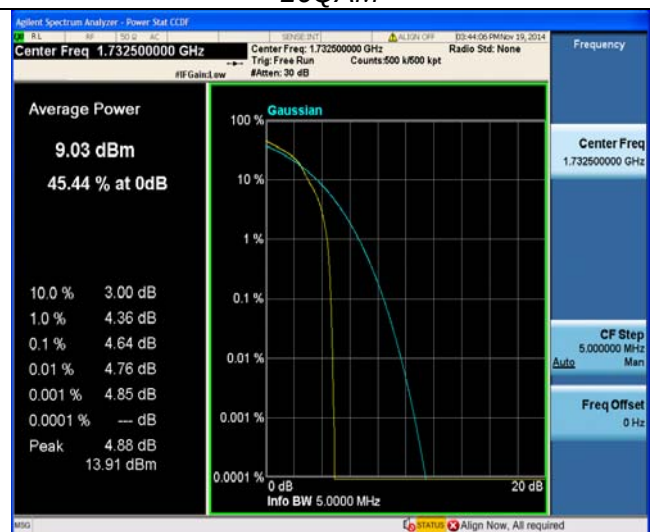
LTE FDD Band 4-5MHz Channel Bandwidth PAPR

Middle Channel

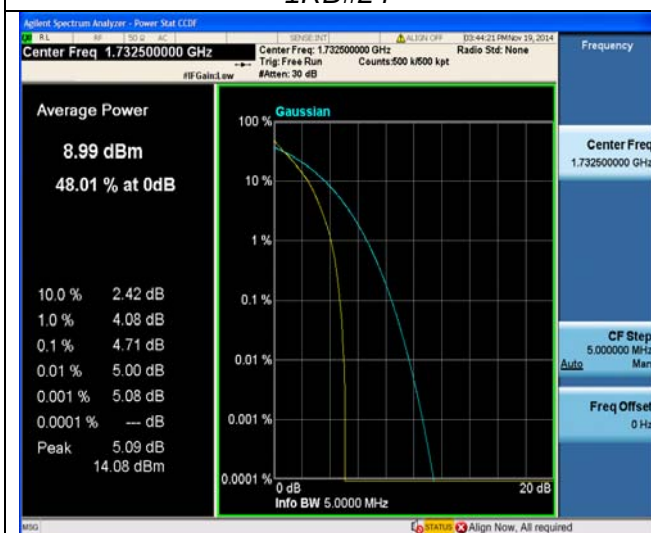
QPSK



16QAM



1RB#24



1RB#24



12RB#0



12RB#0



12RB#6

12RB#6

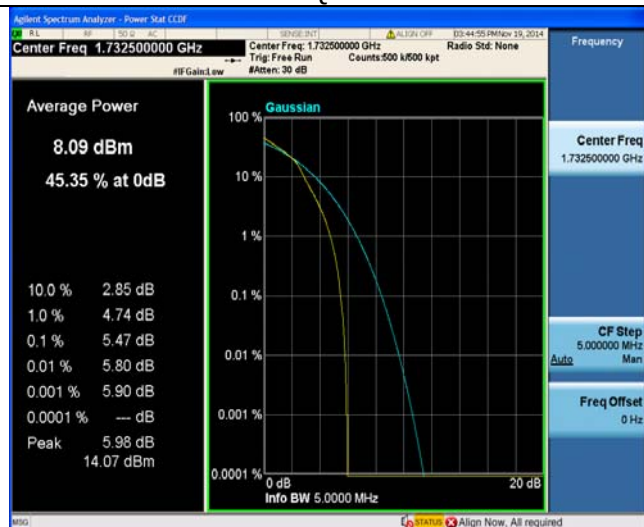
LTE FDD Band 4-5MHz Channel Bandwidth PAPR

Middle Channel

QPSK



16QAM



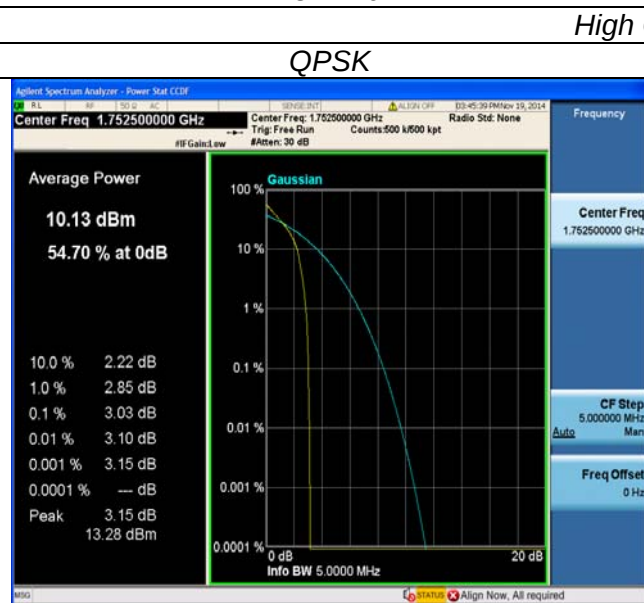
12RB#13



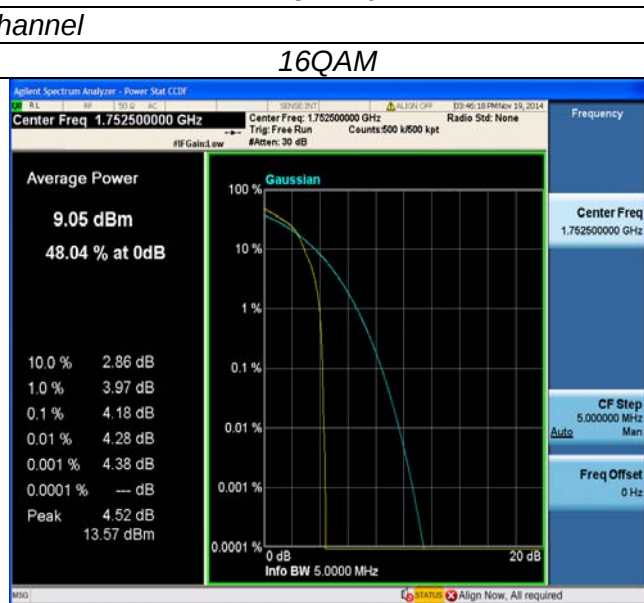
12RB#13



25RB#0



25RB#0

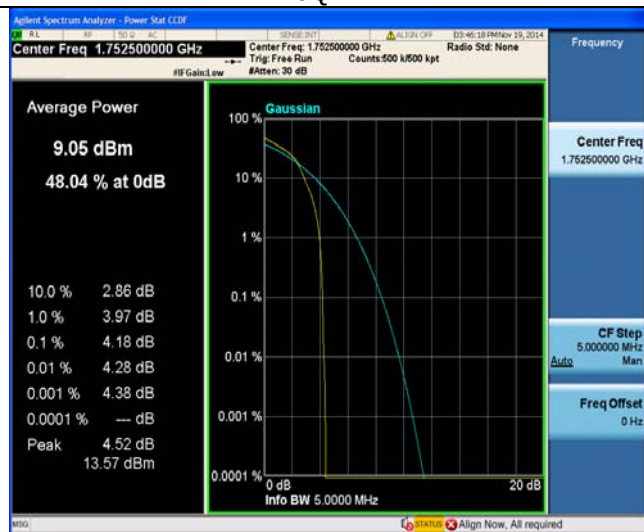


High Channel

QPSK



16QAM



1RB#0

1RB#0

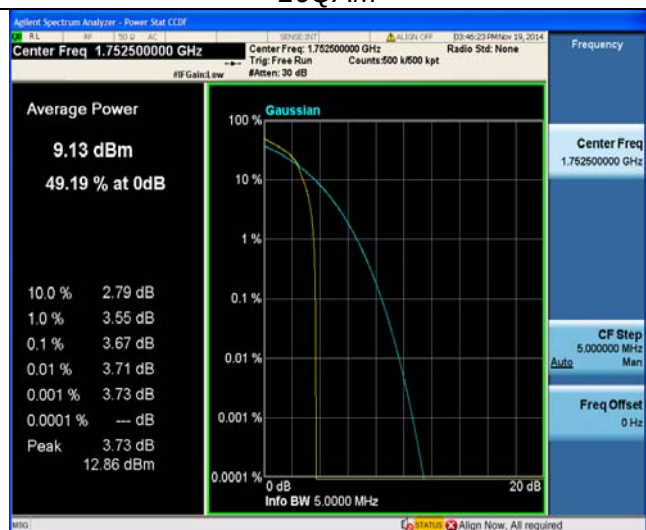
LTE FDD Band 4-5MHz Channel Bandwidth PAPR

High Channel

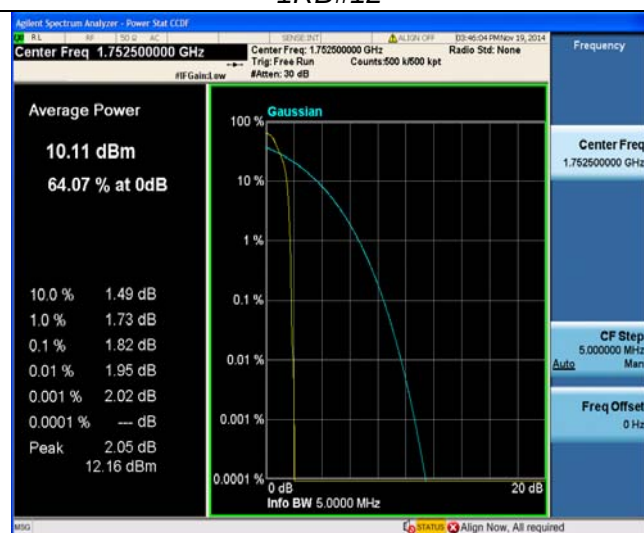
QPSK



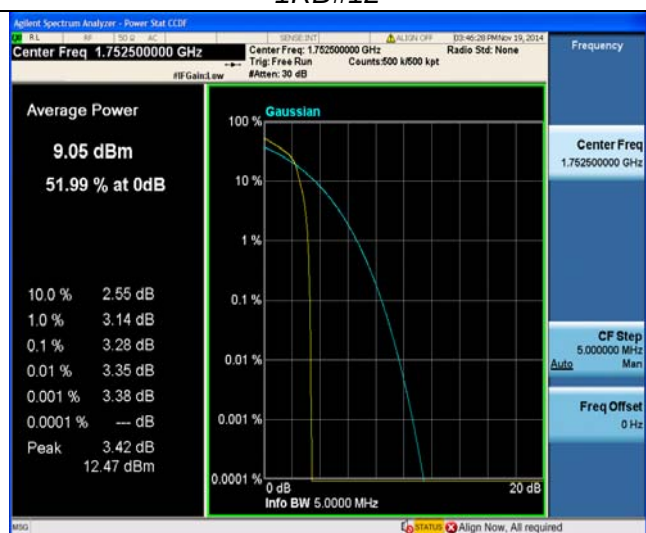
16QAM



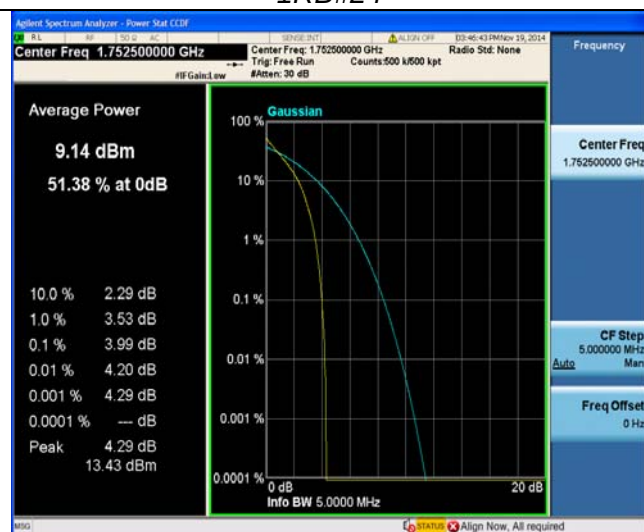
1RB#12



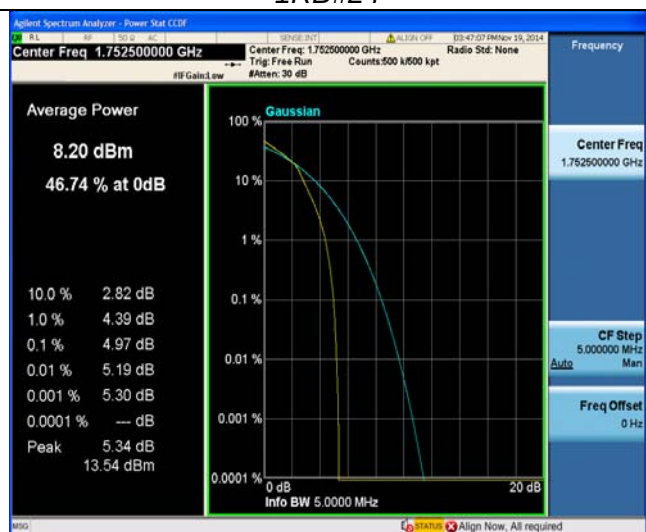
1RB#12



1RB#24



1RB#24



12RB#0

12RB#0

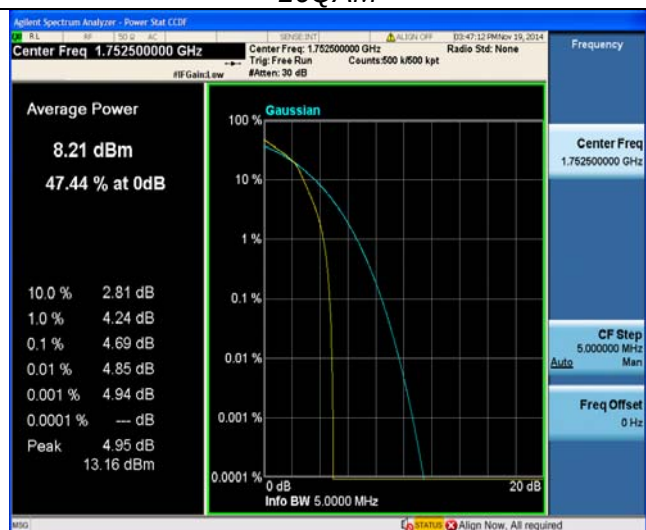
LTE FDD Band 4-5MHz Channel Bandwidth PAPR

High Channel

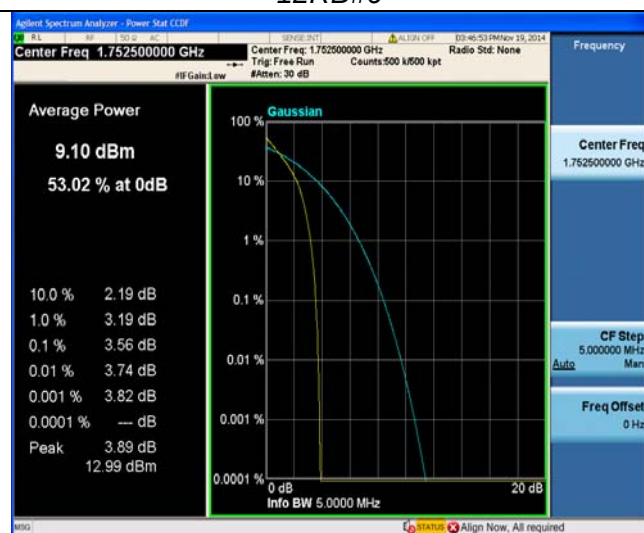
QPSK



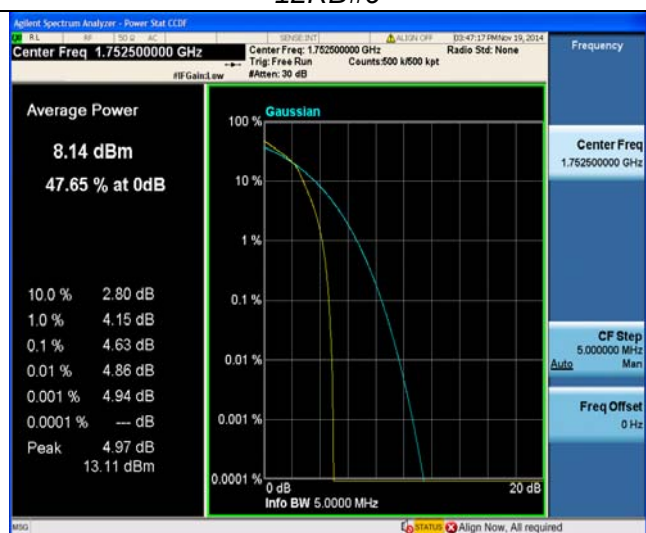
16QAM



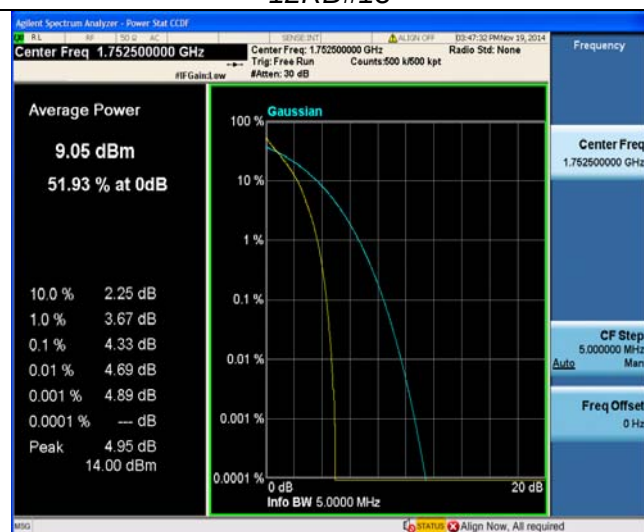
12RB#6



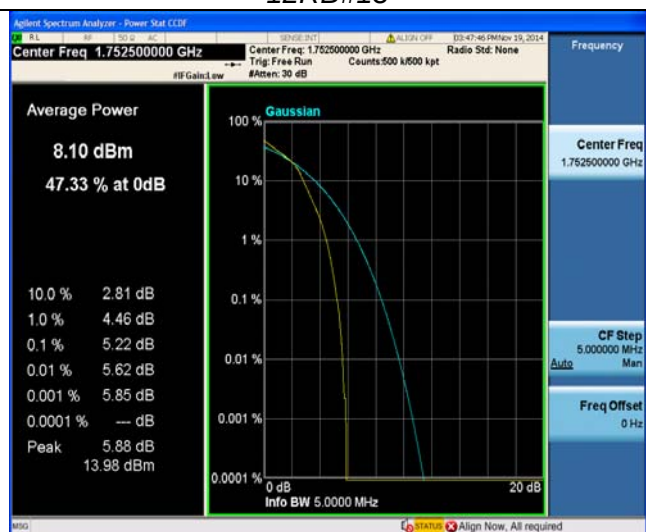
12RB#6



12RB#13



12RB#13



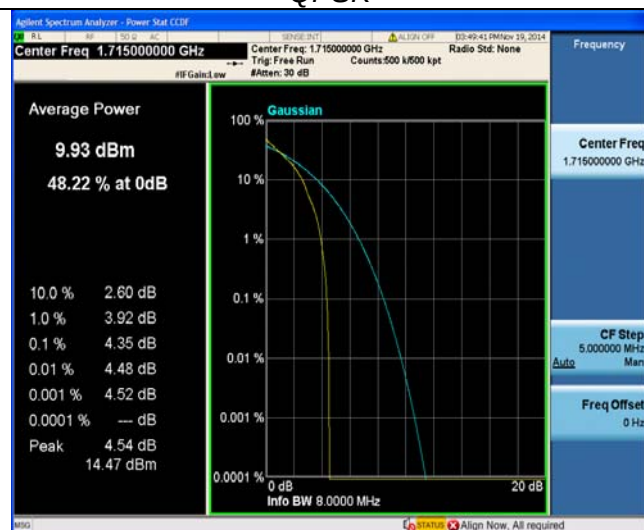
25RB#0

25RB#0

LTE FDD Band 4-10MHz Channel Bandwidth PAPR

Low Channel

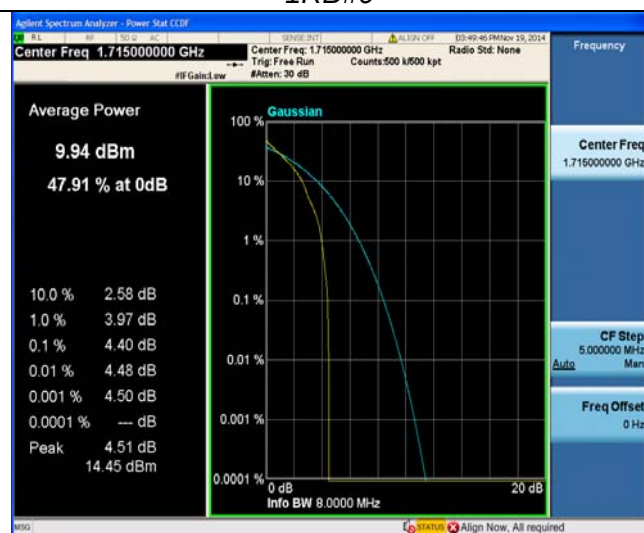
QPSK



16QAM



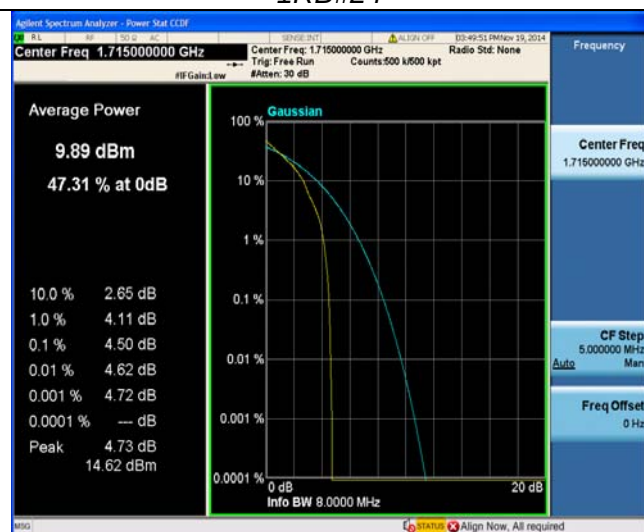
1RB#0



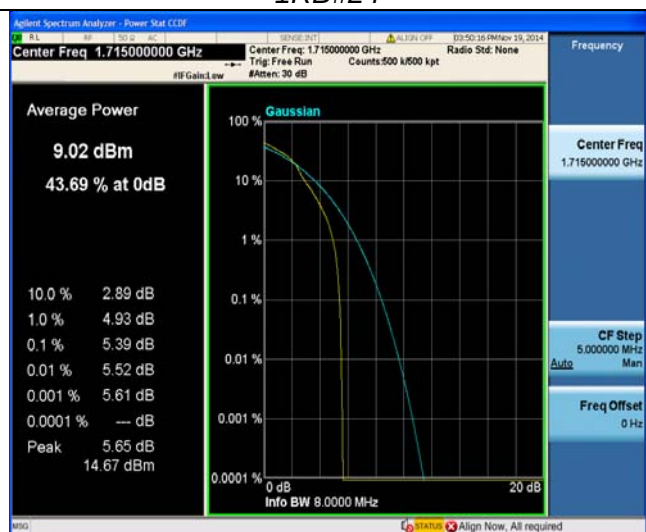
1RB#0



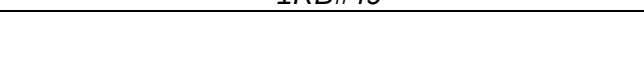
1RB#24



1RB#24



1RB#49



1RB#49

