



RF TEST REPORT

Report No.: SET2018-16123

Product: LTE/WCDMA/GSM (GPRS) Multi-Mode Digital Mobile Phone

FCC ID: SRQ-BLADEV10M

Model No.: ZTE Blade V10

Applicant: ZTE Corporation.

Address: ZTE Plaza, Keji Road South, Shenzhen, China

Dates of Testing: 12/10/2018 — 01/14/2019

Issued by: CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd.

Lab Location: Building 28/29, East of Shigu Xili Industrial Zone, Nanshan District Shenzhen, Guangdong 518055, China

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Test Report

Product: LTE/WCDMA/GSM (GPRS) Multi-Mode Digital Mobile Phone

Brand Name.....: ZTE

Trade Name: ZTE

Applicant: ZTE Corporation.

Applicant Address: ZTE Plaza, Keji Road South, Shenzhen, China

Manufacturer: ZTE Corporation.

Manufacturer Address.....: ZTE Plaza, Keji Road South, Shenzhen, China

Test Standards: 47 CFR Part 2: Frequency Allocations and Radio Treaty
Matters; General Rules and Regulations
47 CFR Part 22(H): Cellular Radiotelephone Service
47 CFR Part 24(E): Personal Communications Services
47CFR Part 27: Miscellaneous wireless communications
services

Test Result.....: PASS

Tested by

Shallwe Yang

2019.01.14.

Shallwe Yang, Test Engineer

Reviewed by.....

Chris You

2019.01.14.

Chris You, Senior EGINEER

Approved by.....

Shuangwen Zhang

2019.01.14

Shuangwen Zhang, Manager



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Change History		
Issue	Date	Reason for change
1.0	2019.01.14	First edition



1. GENERAL INFORMATION

1.1 EUT Description

EUT Type	LTE/WCDMA/GSM (GPRS) Multi-Mode Digital Mobile Phone
EUT supports Radios application	LTE Band 2/4/5/7/12/66
Frequency Range	LTE Band 2: 1850.7MHz~1909.3MHz LTE Band 4: 1710.7MHz~1754.3MHz LTE Band 5: 824.7MHz~848.3MHz LTE Band 7: 2502.5MHz~2567.5MHz LTE Band 12: 699.7MHz~715.3MHz LTE Band 66: 1710.7MHz~1754.3MHz
Maximum Output Power to Antenna	LTE Band 2: 22.67dBm LTE Band 4: 22.74dBm LTE Band 5: 22.97dBm LTE Band 7: 21.33dBm LTE Band 12: 22.57dBm LTE Band 66: 21.29dBm
Bandwidth	LTE Band 2: 1.4MHz/3MHz/5MHz/10MHz/15MHz/20MHz LTE Band 4: 1.4MHz/3MHz/5MHz/10MHz/15MHz/20MHz LTE Band 5: 1.4MHz/3MHz/5MHz/10MHz LTE Band 7: 5MHz/10MHz/15MHz/20MHz LTE Band 12: 1.4MHz/3MHz/5MHz/10MHz LTE Band 66: 1.4MHz/3MHz/5MHz/10MHz/15MHz/20MHz
Modulation Type	QPSK/16QAM/64QAM(downlink only)
Antenna Type	Internal Antenna
Antenna Gain	LTE Band 2:-1.84dBi LTE Band 4: -2dBi LTE Band 5: -4.43dBi LTE Band 7: -2.38dBi LTE Band 12: -4.43dBi LTE Band 66: --2.38dBi
Power supply	DC 3.85V from battery DC 5V from adapter
Adapter	AC Adapter 1# Model No.: STC-A51A-Z I/p: 100-240V~50/60Hz ,300mA



	O/p: 5.0V --- 1500mA Manufacturer :MADE IN CHINA BY DOKOCOM AC Adapter 2# Model No.: STC-A51A-Z I/p: 100-240V~50/60Hz ,300mA O/p: 5.0V --- 1500mA Manufacturer :MADE IN CHINA BY CHENYANG AC Adapter 3# Model No.: STC-A51A-Z I/p: 100-240V~50/60Hz ,300mA O/p: 5.0V --- 1500mA Manufacturer :MADE IN CHINA BY RUIJING
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Note: For conduction and radiation emission test the worst case of adapter 1# reported only.

1.2 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator

Band	Type of Modulation	BW (MHz)	Emission Designator	Frequency Tolerance (ppm)	Maximum ERP/EIRP(W)
LTE Band 2	QPSK	1.4	1M09G7D	—	0.162
LTE Band 2	16QAM	1.4	1M09W7D	—	0.160
LTE Band 2	QPSK	3	2M68G7D	—	0.149
LTE Band 2	16QAM	3	2M68W7D	—	0.147
LTE Band 2	QPSK	5	4M50G7D	—	0.108
LTE Band 2	16QAM	5	4M50W7D	—	0.108
LTE Band 2	QPSK	10	8M94G7D	0.011	0.111
LTE Band 2	16QAM	10	8M93W7D	—	0.117
LTE Band 2	QPSK	15	13M5G7D	—	0.094
LTE Band 2	16QAM	15	13M5W7D	—	0.095
LTE Band 2	QPSK	20	17M9G7D	—	0.121
LTE Band 2	16QAM	20	17M9W7D	—	0.122
LTE Band 4	QPSK	1.4	1M09G7D	—	0.126
LTE Band 4	16QAM	1.4	1M09W7D	—	0.101
LTE Band 4	QPSK	3	2M68G7D	—	0.127
LTE Band 4	16QAM	3	2M68W7D	—	0.144
LTE Band 4	QPSK	5	4M50G7D	—	0.169
LTE Band 4	16QAM	5	4M50W7D	—	0.146
LTE Band 4	QPSK	10	8M95G7D	0.011	0.134
LTE Band 4	16QAM	10	8M94W7D	—	0.116
LTE Band 4	QPSK	15	13M5G7D	—	0.105
LTE Band 4	16QAM	15	13M5W7D	—	0.085
LTE Band 4	QPSK	20	17M9G7D	—	0.107
LTE Band 4	16QAM	20	17M9W7D	—	0.089

LTE Band 5	QPSK	1.4	1M09G7D	—	0.115
LTE Band 5	16QAM	1.4	1M09W7D	—	0.121
LTE Band 5	QPSK	3	2M68G7D	—	0.117
LTE Band 5	16QAM	3	2M68W7D	—	0.124
LTE Band 5	QPSK	5	4M51G7D	—	0.091
LTE Band 5	16QAM	5	4M51W7D	—	0.094
LTE Band 5	QPSK	10	8M97G7D	0.016	0.111
LTE Band 5	16QAM	10	8M96W7D	—	0.117
LTE Band 7	QPSK	5	4M49G7D	—	0.130
LTE Band 7	16QAM	5	4M50W7D	—	0.132
LTE Band 7	QPSK	10	8M94G7D	0.009	0.129
LTE Band 7	16QAM	10	8M93W7D	—	0.136
LTE Band 7	QPSK	15	13M5G7D	—	0.132
LTE Band 7	16QAM	15	13M5W7D	—	0.110
LTE Band 7	QPSK	20	17M9G7D	—	0.108
LTE Band 7	16QAM	20	17M9W7D	—	0.107
LTE Band 12	QPSK	1.4	1M09G7D	—	0.088
LTE Band 12	16QAM	1.4	1M09W7D	—	0.072
LTE Band 12	QPSK	3	2M67G7D	—	0.125
LTE Band 12	16QAM	3	2M67W7D	—	0.073
LTE Band 12	QPSK	5	4M49G7D	—	0.091
LTE Band 12	16QAM	5	4M49W7D	—	0.074
LTE Band 12	QPSK	10	8M90G7D	0.018	0.101
LTE Band 12	16QAM	10	8M90W7D	—	0.082
LTE Band 66	QPSK	1.4	1M09G7D	—	0.122
LTE Band 66	16QAM	1.4	1M09W7D	—	0.098
LTE Band 66	QPSK	3	2M68G7D	—	0.123
LTE Band 66	16QAM	3	2M67W7D	—	0.139
LTE Band 66	QPSK	5	4M49G7D	—	0.164

LTE Band 66	16QAM	5	4M49W7D	—	0.113
LTE Band 66	QPSK	10	8M93G7D	0.009	0.130
LTE Band 66	16QAM	10	8M93W7D	—	0.112
LTE Band 66	QPSK	15	13M6G7D	—	0.102
LTE Band 66	16QAM	15	13M5W7D	—	0.083
LTE Band 66	QPSK	20	17M9G7D	—	0.104
LTE Band 66	16QAM	20	17M9W7D	—	0.085
LTE Band7 CA	QPSK	10+20	28M2G7D	—	0.123
	16QAM	10+20	28M2W7D	—	0.115
	QPSK	15+15	28M8G7D	—	0.121
	16QAM	15+15	28M7W7D	—	0.116
	QPSK	15+20	33M0G7D	—	0.111
	16QAM	15+20	33M0W7D	—	0.109
	QPSK	15+10	23M7G7D	—	0.109
	16QAM	15+10	23M7W7D	—	0.100
	QPSK	20+10	28M2G7D	—	0.109
	16QAM	20+10	28M2W7D	—	0.102
	QPSK	20+15	32M9G7D	—	0.108
	16QAM	20+15	32M9W7D	—	0.119
	QPSK	20+20	37M8G7D	—	0.127
	16QAM	20+20	37M8W7D	—	0.120

1.3 Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 2, Part22, Part24, Part27, for the EUT FCC ID Certification:

1.47 CFR Part 2, 22(H), 24(E), 27(F), 27(L), 27(H), 27(M)

2. ANSI/TIA/EIA-603-D-2010

3. FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01

Test detailed items/section required by FCC rules and results are as below:

No.	Section	Description	Limit	Result
1	2.1046	Conducted RF Output Power	Reporting Only	PASS
2	§24.232(d)	Peak to Average Ratio	<13dB	PASS
3	§22.913(a)(2)	Effective Radiated Power (Band 5)	ERP < 7 Watt	PASS
	§24.232(c) §27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 2/7)	EIRP < 2Watt	PASS
	§27.50(b)(10) §27.50(c)(10)	Effective Radiated Power (Band 12)	ERP < 3 Watt	PASS
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (Band 4) (Band 66)	EIRP < 1Watt	PASS
4	2.1049	Occupied Bandwidth	Reporting Only	PASS
5	§2.1051 §22.917(a) §24.238(a) §27.53(c)(2) §27.53(g) §27.53(h) 2.1051	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 12) (Band 66) (Band 7)	< 43+10log ₁₀ (P[watt]) <5.5MHz: -13dBm ≥5.5MHz: -25dBm (Band7)	PASS



	27.53(m)(4)			
6	2.1051 §22.917(a) 24.238(a) 27.53(c) 27.53(g) 27.53(h)	Conducted Spurious Emission Measurement (Band 2) (Band 4) (Band 5) (Band 12) (Band 66)	$<$ $43+10\log_{10}(P[\text{watt}])$	PASS
	2.1051 27.53(m)(4) 27.53(i)(4)	Conducted Spurious Emission Measurement (Band 7)	$<$ $55+10\log_{10}(P[\text{watt}])$	PASS
7	2.1053 §22.917(a) 24.238(a) 27.53(c) 27.53(g) 27.53(h)	Radiated Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 66)	$<$ $43+10\log_{10}(P[\text{watt}])$	PASS
	2.1053 27.53(m)(4) 27.53(i)(4)	Radiated Spurious Emission (Band 7)	$<$ $55+10\log_{10}(P[\text{watt}])$	PASS
8	2.1055 22.335 24.235 27.54	Frequency Stability	$<2.5\text{ppm}$	PASS

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



1.4 Test Configuration of Equipment Under Test

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

Test Items	Band	Bandwidth(MHz)						Modulation		RB#			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
Max. Output Power	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	5	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓
	7			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	12	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓
	66	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Peak-to-Average Ratio	2	✓	✓	✓	✓	✓	✓		✓	✓		✓	✓	✓	✓
	4	✓	✓	✓	✓	✓	✓		✓	✓		✓	✓	✓	✓
	5	✓	✓	✓	✓				✓	✓		✓	✓	✓	✓
	7			✓	✓	✓	✓		✓	✓		✓	✓	✓	✓
	12	✓	✓	✓	✓				✓	✓		✓	✓	✓	✓
	66	✓	✓	✓	✓	✓	✓		✓	✓		✓	✓	✓	✓
26dB and 99% Bandwidth	2	✓	✓	✓	✓	✓	✓	✓	✓			✓		✓	
	4	✓	✓	✓	✓	✓	✓	✓	✓			✓		✓	
	5	✓	✓	✓	✓			✓	✓			✓		✓	
	7			✓	✓	✓	✓	✓	✓			✓		✓	
	12	✓	✓	✓	✓			✓	✓			✓		✓	
	66	✓	✓	✓	✓	✓	✓	✓	✓			✓		✓	
Conducted Band Edge	2	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓
	4	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓
	5	✓	✓	✓	✓			✓	✓	✓		✓	✓		✓
	7			✓	✓	✓	✓	✓	✓	✓		✓	✓		✓
	12	✓	✓	✓	✓			✓	✓	✓		✓	✓		✓
	66	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓
Conducted Spurious Emission	2	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
	4	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
	5	✓	✓	✓	✓			✓	✓	✓			✓	✓	✓
	7			✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
	12	✓	✓	✓	✓			✓	✓	✓			✓	✓	✓
	66	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓



Frequency Stability	2				✓			✓				✓		✓	
	4				✓			✓				✓		✓	
	5				✓			✓				✓		✓	
	7				✓			✓				✓		✓	
	12				✓			✓				✓		✓	
	66				✓			✓				✓		✓	
ERP/EIRP	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
	4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
	5	✓	✓	✓	✓			✓	✓	✓	✓		✓	✓	✓
	7			✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
	12	✓	✓	✓	✓			✓	✓	✓	✓		✓	✓	✓
	66	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
Radiated Spurious Emission	2	Worst case												✓	
	4	Worst case												✓	
	5	Worst case												✓	
	7	Worst case												✓	
	12	Worst case												✓	
	66	Worst case												✓	

Test Items	Band	Bandwidth(MHz)										Modulation		RB#			Test Channel		
		20	20	15	20	10	20	5	15	15	10	QPSK	16QAM	1	Half	Full	L	M	H
		+	+	+	+	+	+	+	+	+	+								
26dB and 99% Bandwidth	7_CA	✓	✓	✓	✓	✓	-	-	✓	✓	-	✓	✓			✓		✓	
Conducted Band Edge		✓	✓	✓	✓	✓	-	-	✓	✓	-	✓	✓	✓		✓	✓		✓
Conducted Spurious Emission		✓	✓	✓	✓	✓	-	-	✓	✓	-	✓	✓	✓			✓	✓	✓
ERP/EIRP		✓	✓	✓	✓	✓	-	-	✓	✓	-	✓	✓	✓			✓	✓	✓
Radiated Spurious Emission		Worst case																✓	

Note	1. The mark “√” means that this configuration is chosen for testing. 2. The mark “-” means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. 4. For E.R.P/E.I.R.P. measurement, the widest bandwidth and the bandwidth with the highest conducted power of each band is chosen for testing. Besides, the lowest bandwidth of each band is also measured for reporting only.
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1.5 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 7dB and 10dB attenuator.

Example:

$$\begin{aligned}\text{Offset (dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 7 + 10 = 17 \text{ (dB)}\end{aligned}$$

1.6 Facilities and Accreditations

1.6.1 Test Facilities

CNAS-Lab Code: L1659

CCIC-SET is a third party testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L1659.

FCC-Registration No.: CN5031

CCIC Southern Electronic Product Testing (Shenzhen) 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. Designation Number: CN5031, valid time is until December 31, 2019.

ISED Registration: 11185A-1

CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd. EMC Laboratory has been



registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 11185A-1 on Aug. 04, 2016, valid time is until Aug. 03, 2019.

NVLAP Lab Code: 201008-0

CCIC-SET is a third party testing organization accredited by NVLAP according to ISO/IEC 17025. The accreditation certificate number is 201008-0.

1.6.2 Test Environment Conditions

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

Temperature (°C):	15°C - 35°C
Relative Humidity (%):	30% -60%
Atmospheric Pressure (kPa):	86KPa-106KPa

2. 47 CFR PART 2 REQUIREMENTS

2.1 Conducted RF Output Power

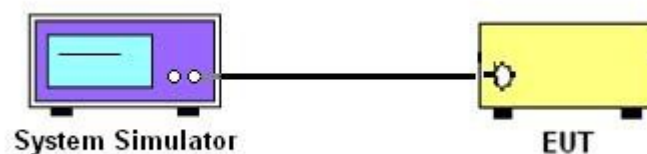
2.1.1 Requirement

According to FCC section 2.1046(a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

2.1.2 Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.1.3 Test Setup



2.1.4 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through system simulator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.



2.1.5 Test Results

Please refer to Appendix A for detail

2.2 Peak to Average Ratio

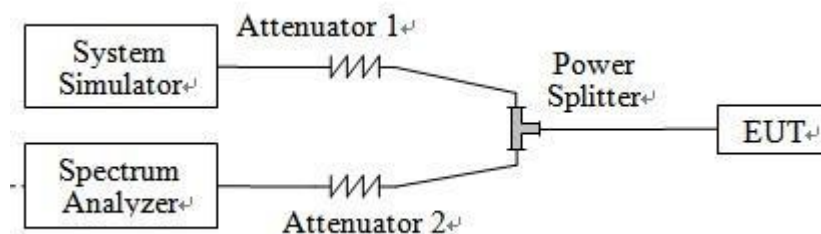
2.2.1 Definition

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

2.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

2.2.3 Test Description



2.2.4 Test Procedures

1. The EUT was connected to spectrum and system simulator via a power divider.
2. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
3. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
4. Record the deviation as Peak to Average Ratio.



2.2.5 Test Results of Peak-to-Average Ratio

Please refer to Appendix A for detail

2.3 99% Occupied Bandwidth and 26dB Bandwidth

2.3.1 Definition

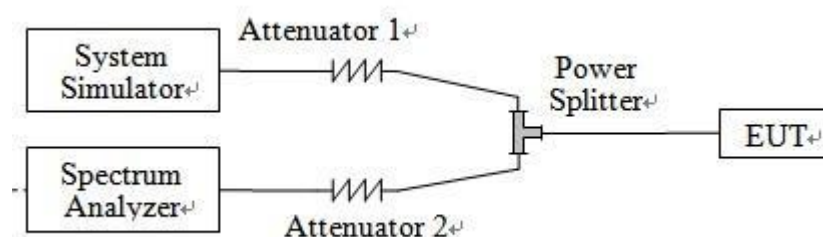
According to FCC section 2.1049, the occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

2.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

2.3.3 Test Setup



2.3.4 Test Procedures

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The 26dB and 99% occupied bandwidth (BW) of the middle channel for the highest RF power with full RB sizes were measured.



2.3.5 Test Result of 99% Occupied Bandwidth and 26dB Bandwidth

Please refer to Appendix A for detail

2.4 Frequency Stability

2.4.1 Requirement

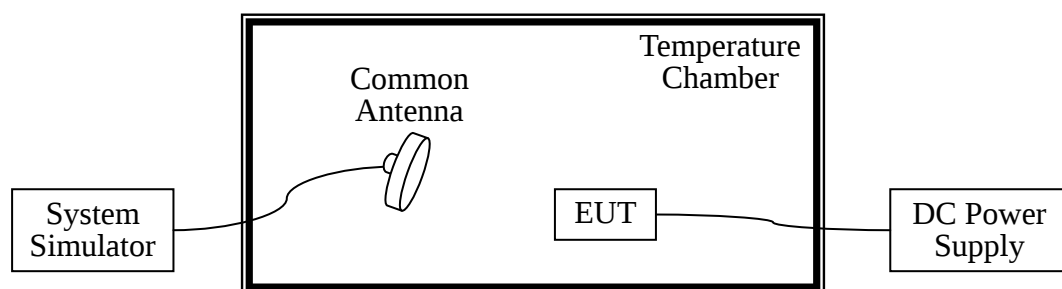
According to FCC requirement, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency. According to FCC section 2.1055, the test conditions are:

- (a) The temperature is varied from -30°C to $+50^{\circ}\text{C}$ at intervals of not more than 10°C .
- (b) For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

2.4.2 Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.4.3 Test Setup



2.4.4 Test Procedures

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized



before testing. Power was applied and the maximum change in frequency was recorded within one minute.

3. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.
4. The nominal, highest and lowest extreme voltages were tested, which are specified by the applicant; the normal temperature here used is 25°C.
5. The variation in frequency was measured for the worst case.



2.4.5 Test Result of Frequency Stability

Please refer to Appendix A for detail

2.5 Conducted Out of Band Emissions

2.5.1 Requirement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For Band 7:

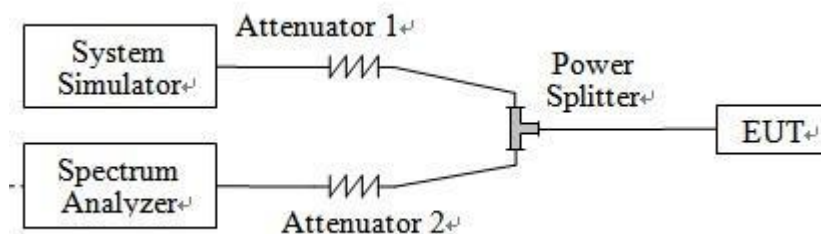
The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

2.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

2.5.3 Test Setup



2.5.4 Test Procedures

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
The path loss was compensated to the results for each measurement.
3. The middle channel for the highest RF power within the transmitting frequency was measured.
4. The conducted spurious emission for the whole frequency range was taken.

5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$
$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$$
$$= -13\text{dBm}.$$
8. For Band 7
The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)
$$= P(W) - [55 + 10\log(P)] \text{ (dB)}$$
$$= [30 + 10\log(P)] \text{ (dBm)} - [55 + 10\log(P)] \text{ (dB)}$$
$$= -25\text{dBm}.$$
9. For 9KHz to 30MHz: the amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



2.5.5 Test Result of Conducted Spurious Emission

Please refer to Appendix A for detail

2.6 Conducted Band Edge

2.6.1 Description of Conducted Band Edge Measurement

22.917(a)

Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

24.238(a)

For operations in the 1850 -1910 MHz band, the FCC limit is $43 + 10\log_{10}(P [\text{Watts}])$ dB below the transmitter power P(Watts) in a 1MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

27.53(h)

For operations in the 1710 – 1755 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power P(Watts) in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

27.53(g)

For operations in the 698 – 746 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power P(Watts) in a 100 kHz bandwidth. However, in the 100kHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least 30kHz may be employed.

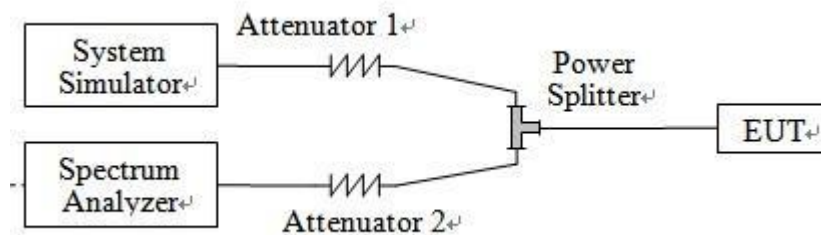
27.53m(4)

For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

2.6.2 Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.6.3 Test Setup



2.6.4 Test Procedures

1. The testing follows FCC KDB 971168 v03r01 Section 6.0.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured.
4. Set RBW $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
5. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
6. Set spectrum analyzer with RMS detector.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
8. Checked that all the results comply with the emission limit line.
The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
9. For LTE Band 7 the other 40 dB, and 55 dB have additionally applied same calculation above.

2.6.5 Test Result of Conducted Band Edge

Please refer to Appendix A for detail

2.7 Transmitter Radiated Power (EIRP/ERP)

2.7.1 Requirement

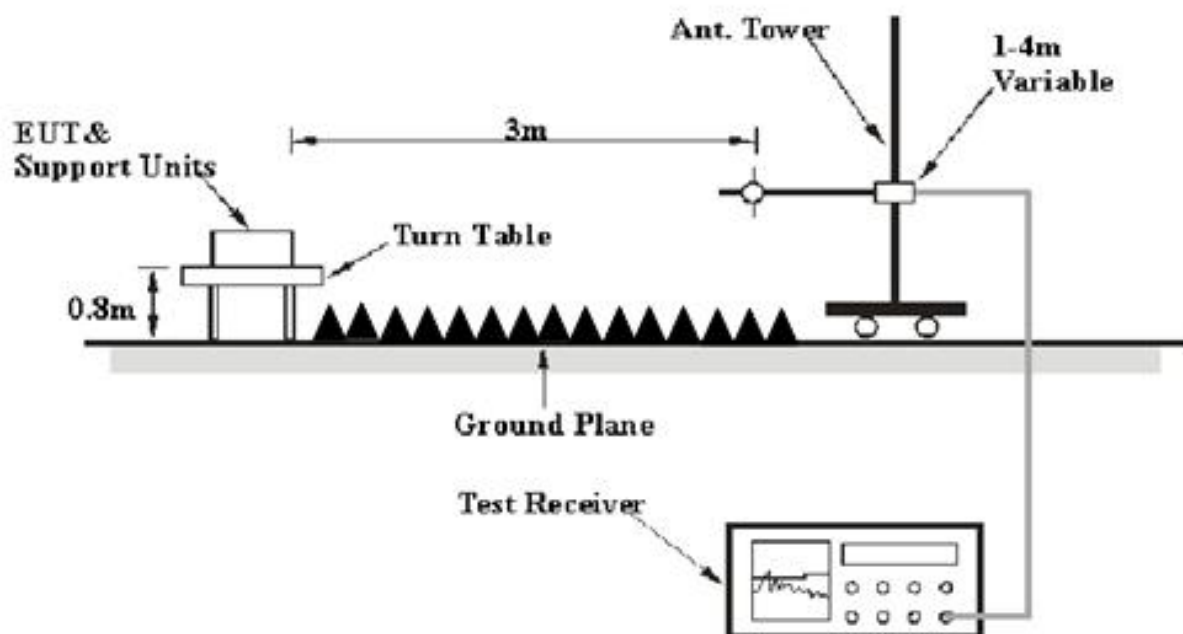
Effective radiated power output measurements by substitution method according to ANSI / TIA / EIA-603-D-2010, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v03r01. Mobile and portable (hand-held) stations operating are limited to average ERP of 7 watts with LTE band 5/26 and 3 watts with LTE band 12 / 13.

Equivalent isotropic radiated power output measurements by substitution method according to ANSI / TIA / EIA-603-D-2010, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v03r01. Mobile and portable (hand-held) stations operating are limited to average EIRP of 2 watts with LTE band 2 / 25 / 41/7 and 1 watt with LTE band 4 and 66.

2.7.2 Measuring Instruments

The measuring equipment is listed in the section 3 of this test report.

2.7.3 Test Setup



2.7.4 Test Procedures

1. The EUT was placed on a turntable with 1.5 meter height in a fully anechoic chamber.
2. The EUT was set at 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer which used a channel power option across EUT's signal bandwidth per section 4.0 of KDB 971168 D01v03r01.
4. The table was rotated 360 degrees to determine the position of the highest radiated power.
5. The height of the receiving antenna is adjusted to look for the maximum ERP/EIRP.
6. Taking the record of maximum ERP/EIRP.
7. A dipole antenna was substituted in place of the EUT and was driven by a signal generator.
8. The conducted power at the terminal of the dipole antenna is measured.
9. Repeat step 3 to step 5 to get the maximum ERP/EIRP of the substitution antenna.
10. $ERP/EIRP = P_s + E_t - E_s + G_s = P_s + R_t - R_s + G_s$

P_s (dBm): Input power to substitution antenna.

G_s (dBi or dBd): Substitution antenna Gain.

$E_t = R_t + AF$

$E_s = R_s + AF$

AF (dB/m): Receive antenna factor

R_t : The highest received signal in spectrum analyzer for EUT.

R_s : The highest received signal in spectrum analyzer for substitution antenna.

**2.7.5 Test Result of ERP/EIRP****1. LTE Band 2 Test Verdict:**

LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	Verdict
			RB Size	RB Offset			
2	1.4	QPSK	1	3	1850.7	21.72	PASS
2	1.4	QPSK	1	3	1880	22.09	PASS
2	1.4	QPSK	1	3	1909.3	21.77	PASS
2	1.4	16QAM	1	0	1850.7	20.86	PASS
2	1.4	16QAM	1	0	1880	21.36	PASS
2	1.4	16QAM	1	0	1909.3	22.03	PASS
2	3	QPSK	1	8	1851.5	21.40	PASS
2	3	QPSK	1	8	1880	21.44	PASS
2	3	QPSK	1	8	1908.5	21.72	PASS
2	3	16QAM	1	0	1851.5	21.68	PASS
2	3	16QAM	1	0	1880	21.65	PASS
2	3	16QAM	1	0	1908.5	21.66	PASS
2	5	QPSK	1	0	1852.5	20.32	PASS
2	5	QPSK	1	0	1880	20.29	PASS
2	5	QPSK	1	0	1907.5	20.31	PASS
2	5	16QAM	1	24	1852.5	20.35	PASS
2	5	16QAM	1	24	1880	20.34	PASS
2	5	16QAM	1	24	1907.5	20.32	PASS
2	10	QPSK	1	49	1855	20.44	PASS
2	10	QPSK	1	49	1880	20.46	PASS
2	10	QPSK	1	49	1905	20.43	PASS
2	10	16QAM	1	0	1855	20.69	PASS
2	10	16QAM	1	0	1880	20.67	PASS
2	10	16QAM	1	0	1905	20.70	PASS
2	15	QPSK	1	74	1857.5	19.73	PASS
2	15	QPSK	1	74	1880	19.70	PASS
2	15	QPSK	1	74	1902.5	19.75	PASS
2	15	16QAM	1	0	1857.5	19.77	PASS
2	15	16QAM	1	0	1880	19.75	PASS
2	15	16QAM	1	0	1902.5	19.78	PASS
2	20	QPSK	1	0	1860	20.80	PASS
2	20	QPSK	1	0	1880	20.82	PASS
2	20	QPSK	1	0	1900	20.81	PASS
2	20	16QAM	1	0	1860	20.85	PASS
2	20	16QAM	1	0	1880	20.82	PASS
2	20	16QAM	1	0	1900	20.72	PASS



2. LTE Band 4 Test Verdict:

LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	Verdict
			RB Size	RB Offset			
4	1.4	QPSK	1	0	1710.7	20.91	PASS
4	1.4	QPSK	1	0	1732.5	20.99	PASS
4	1.4	QPSK	1	0	1754.3	20.94	PASS
4	1.4	16QAM	1	3	1710.7	20.01	PASS
4	1.4	16QAM	1	3	1732.5	20.04	PASS
4	1.4	16QAM	1	3	1754.3	20.01	PASS
4	3	QPSK	1	0	1711.5	21.02	PASS
4	3	QPSK	1	0	1732.5	21.03	PASS
4	3	QPSK	1	0	1753.5	21.01	PASS
4	3	16QAM	1	14	1711.5	21.57	PASS
4	3	16QAM	1	14	1732.5	21.55	PASS
4	3	16QAM	1	14	1753.5	21.53	PASS
4	5	QPSK	1	0	1712.5	22.26	PASS
4	5	QPSK	1	0	1732.5	22.25	PASS
4	5	QPSK	1	0	1752.5	22.28	PASS
4	5	16QAM	1	0	1712.5	21.64	PASS
4	5	16QAM	1	0	1732.5	21.60	PASS
4	5	16QAM	1	0	1752.5	21.62	PASS
4	10	QPSK	1	0	1715	21.27	PASS
4	10	QPSK	1	0	1732.5	21.25	PASS
4	10	QPSK	1	0	1750	21.24	PASS
4	10	16QAM	1	24	1715	20.61	PASS
4	10	16QAM	1	24	1732.5	20.63	PASS
4	10	16QAM	1	24	1750	20.60	PASS
4	15	QPSK	1	74	1717.5	20.17	PASS
4	15	QPSK	1	74	1732.5	20.20	PASS
4	15	QPSK	1	74	1747.5	20.18	PASS
4	15	16QAM	1	74	1717.5	19.31	PASS
4	15	16QAM	1	74	1732.5	19.26	PASS
4	15	16QAM	1	74	1747.5	19.28	PASS
4	20	QPSK	1	0	1720	20.24	PASS
4	20	QPSK	1	0	1732.5	20.27	PASS
4	20	QPSK	1	0	1745	20.29	PASS
4	20	16QAM	1	0	1720	19.38	PASS
4	20	16QAM	1	0	1732.5	19.41	PASS
4	20	16QAM	1	0	1745	19.48	PASS



3. LTE Band 5 Test Verdict:

LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	ERP (dBm)	Verdict
			RB Size	RB Offset			
5	1.4	QPSK	1	3	824.7	20.58	PASS
5	1.4	QPSK	1	3	836.5	20.61	PASS
5	1.4	QPSK	1	3	848.3	20.60	PASS
5	1.4	16QAM	1	3	824.7	20.65	PASS
5	1.4	16QAM	1	3	836.5	20.63	PASS
5	1.4	16QAM	1	3	848.3	20.82	PASS
5	3	QPSK	1	0	825.5	20.65	PASS
5	3	QPSK	1	0	836.5	20.69	PASS
5	3	QPSK	1	0	847.5	20.67	PASS
5	3	16QAM	1	0	825.5	20.93	PASS
5	3	16QAM	1	0	836.5	20.90	PASS
5	3	16QAM	1	0	847.5	20.91	PASS
5	5	QPSK	1	0	826.5	19.58	PASS
5	5	QPSK	1	0	836.5	19.55	PASS
5	5	QPSK	1	0	846.5	19.56	PASS
5	5	16QAM	1	0	826.5	19.73	PASS
5	5	16QAM	1	0	836.5	19.70	PASS
5	5	16QAM	1	0	846.5	19.71	PASS
5	10	QPSK	1	49	829.0	19.43	PASS
5	10	QPSK	1	49	836.5	19.44	PASS
5	10	QPSK	1	49	844.0	19.70	PASS
5	10	16QAM	1	0	829.0	19.03	PASS
5	10	16QAM	1	0	836.5	19.62	PASS
5	10	16QAM	1	0	844.0	19.49	PASS



4. LTE Band 7 Test Verdict:

LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	Verdict
			RB Size	RB Offset			
7	5	QPSK	1	12	2502.5	21.04	PASS
7	5	QPSK	1	0	2535	21.08	PASS
7	5	QPSK	1	24	2567.5	21.14	PASS
7	5	16QAM	1	24	2502.5	21.20	PASS
7	5	16QAM	1	24	2535	21.13	PASS
7	5	16QAM	1	0	2567.5	21.18	PASS
7	10	QPSK	1	24	2505	21.11	PASS
7	10	QPSK	1	49	2535	21.06	PASS
7	10	QPSK	1	24	2565	21.01	PASS
7	10	16QAM	1	24	2505	21.42	PASS
7	10	16QAM	1	49	2535	21.35	PASS
7	10	16QAM	1	24	2565	21.33	PASS
7	15	QPSK	1	37	2507.5	20.23	PASS
7	15	QPSK	1	74	2535	20.25	PASS
7	15	QPSK	1	0	2562.5	21.19	PASS
7	15	16QAM	1	37	2507.5	20.36	PASS
7	15	16QAM	1	18	2535	20.41	PASS
7	15	16QAM	1	0	2562.5	20.39	PASS
7	20	QPSK	1	0	2510	20.25	PASS
7	20	QPSK	1	0	2535	20.33	PASS
7	20	QPSK	1	0	2560	20.31	PASS
7	20	16QAM	1	0	2510	20.29	PASS
7	20	16QAM	1	0	2535	19.42	PASS
7	20	16QAM	1	0	2560	19.35	PASS



5.LTE Band 12 Test Verdict:

LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	Verdict
			RB Size	RB Offset			
12	1.4	QPSK	1	0	699.7	19.42	PASS
12	1.4	QPSK	1	0	707.5	19.40	PASS
12	1.4	QPSK	1	0	715.3	19.43	PASS
12	1.4	16QAM	1	0	699.7	18.58	PASS
12	1.4	16QAM	1	0	707.5	18.57	PASS
12	1.4	16QAM	1	0	715.3	18.55	PASS
12	3	QPSK	1	0	700.5	19.98	PASS
12	3	QPSK	1	0	707.5	20.97	PASS
12	3	QPSK	1	0	714.5	20.95	PASS
12	3	16QAM	1	8	700.5	18.63	PASS
12	3	16QAM	1	8	707.5	18.65	PASS
12	3	16QAM	1	8	714.5	18.66	PASS
12	5	QPSK	1	24	701.5	19.58	PASS
12	5	QPSK	1	24	707.5	19.56	PASS
12	5	QPSK	1	24	713.5	19.54	PASS
12	5	16QAM	1	0	701.5	18.68	PASS
12	5	16QAM	1	0	707.5	18.71	PASS
12	5	16QAM	1	0	713.5	18.70	PASS
12	10	QPSK	1	49	704	19.99	PASS
12	10	QPSK	1	49	707.5	20.01	PASS
12	10	QPSK	1	49	711	20.03	PASS
12	10	16QAM	1	0	704	19.16	PASS
12	10	16QAM	1	0	707.5	19.15	PASS
12	10	16QAM	1	0	711	19.12	PASS



6. LTE Band 66 Test Verdict:

LTE Band	BW (MHz)	Modulation	RB Configuration		Freq. (MHz)	EIRP (dBm)	Verdict
			RB Size	RB Offset			
66	1.4	QPSK	1	0	1710.7	20.79	PASS
66	1.4	QPSK	1	0	1732.5	20.87	PASS
66	1.4	QPSK	1	0	1754.3	20.82	PASS
66	1.4	16QAM	1	3	1710.7	19.89	PASS
66	1.4	16QAM	1	3	1732.5	19.92	PASS
66	1.4	16QAM	1	3	1754.3	19.89	PASS
66	3	QPSK	1	0	1711.5	20.90	PASS
66	3	QPSK	1	0	1732.5	20.91	PASS
66	3	QPSK	1	0	1753.5	20.89	PASS
66	3	16QAM	1	14	1711.5	20.45	PASS
66	3	16QAM	1	14	1732.5	21.43	PASS
66	3	16QAM	1	14	1753.5	21.41	PASS
66	5	QPSK	1	0	1712.5	22.14	PASS
66	5	QPSK	1	0	1732.5	22.13	PASS
66	5	QPSK	1	0	1752.5	22.16	PASS
66	5	16QAM	1	0	1712.5	20.52	PASS
66	5	16QAM	1	0	1732.5	20.48	PASS
66	5	16QAM	1	0	1752.5	20.50	PASS
66	10	QPSK	1	0	1715	20.15	PASS
66	10	QPSK	1	0	1732.5	21.13	PASS
66	10	QPSK	1	0	1750	21.12	PASS
66	10	16QAM	1	24	1715	20.49	PASS
66	10	16QAM	1	24	1732.5	20.51	PASS
66	10	16QAM	1	24	1750	20.48	PASS
66	15	QPSK	1	74	1717.5	20.05	PASS
66	15	QPSK	1	74	1732.5	20.08	PASS
66	15	QPSK	1	74	1747.5	20.06	PASS
66	15	16QAM	1	74	1717.5	19.19	PASS
66	15	16QAM	1	74	1732.5	19.14	PASS
66	15	16QAM	1	74	1747.5	19.16	PASS
66	20	QPSK	1	0	1720	20.12	PASS
66	20	QPSK	1	0	1732.5	20.15	PASS
66	20	QPSK	1	0	1745	20.17	PASS
66	20	16QAM	1	0	1720	19.26	PASS
66	20	16QAM	1	0	1732.5	19.29	PASS
66	20	16QAM	1	0	1745	19.28	PASS



7. LTE Band 7_CA Test Verdict:

BW (MHz)	Freq (MHz)	Freq (MHz)	Mode	PCC RB	PCC RB	SCC RB	SCC RB	EIRP (dBm)	Verdict
				Size	offset	Size	offset		
10+20	2505.5	2519.9	QPSK	1	49	1	0	20.01	PASS
			16QAM	1	49	1	0	20.62	PASS
10+20	2525.6	2540.0	QPSK	1	49	1	0	20.91	PASS
			16QAM	1	49	1	0	19.97	PASS
10+20	2545.6	2560.0	QPSK	1	49	1	0	20.34	PASS
			16QAM	1	49	1	0	20.54	PASS
20+10	2510.0	2524.4	QPSK	1	99	1	0	19.97	PASS
			16QAM	1	99	1	0	20.65	PASS
20+10	2530.1	2544.5	QPSK	1	99	1	0	20.84	PASS
			16QAM	1	99	1	0	19.32	PASS
20+10	2550.1	2564.5	QPSK	1	99	1	0	20.23	PASS
			16QAM	1	99	1	0	20.54	PASS
15+20	2507.8	2524.9	QPSK	1	74	1	0	19.87	PASS
			16QAM	1	74	1	0	20.35	PASS
15+20	2523.5	2542.4	QPSK	1	74	1	0	20.47	PASS
			16QAM	1	74	1	0	20.35	PASS
15+20	2542.9	2560.0	QPSK	1	74	1	0	20.14	PASS
			16QAM	1	74	1	0	20.36	PASS
15+15	2507.5	2522.5	QPSK	1	74	1	0	19.87	PASS
			16QAM	1	74	1	0	19.78	PASS
15+15	2527.5	2542.5	QPSK	1	74	1	0	20.36	PASS
			16QAM	1	74	1	0	19.65	PASS
15+15	2547.5	2562.5	QPSK	1	74	1	0	20.38	PASS
			16QAM	1	74	1	0	19.98	PASS
15+10	2507.5	2519.5	QPSK	1	74	1	0	20.36	PASS
			16QAM	1	74	1	0	19.99	PASS
15+10	2530.1	2542.1	QPSK	1	74	1	0	20.14	PASS
			16QAM	1	74	1	0	20.07	PASS
15+10	2552.7	2564.7	QPSK	1	74	1	0	20.36	PASS
			16QAM	1	74	1	0	19.94	PASS
20+15	2510.0	2527.1	QPSK	1	99	1	0	20.05	PASS
			16QAM	1	99	1	0	20.05	PASS
20+15	2527.6	2544.7	QPSK	1	99	1	0	20.35	PASS
			16QAM	1	99	1	0	19.97	PASS
20+15	2545.1	2562.2	QPSK	1	99	1	0	20.15	PASS
			16QAM	1	99	1	0	20.76	PASS



20+20	2510.0	2529.8	QPSK	1	99	1	0	21.05	PASS
			16QAM	1	99	1	0	20.11	PASS
20+20	2525.1	2544.9	QPSK	1	99	1	0	20.48	PASS
			16QAM	1	99	1	0	20.68	PASS
20+20	2540.2	2560.0	QPSK	1	99	1	0	20.11	PASS
			16QAM	1	99	1	0	20.79	PASS

2.8 Radiated Out of Band Emissions

2.8.1 Requirement

The radiated spurious emission was measured by substitution method according to ANSI / TIA /EIA-603-C-2004. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For Band 7

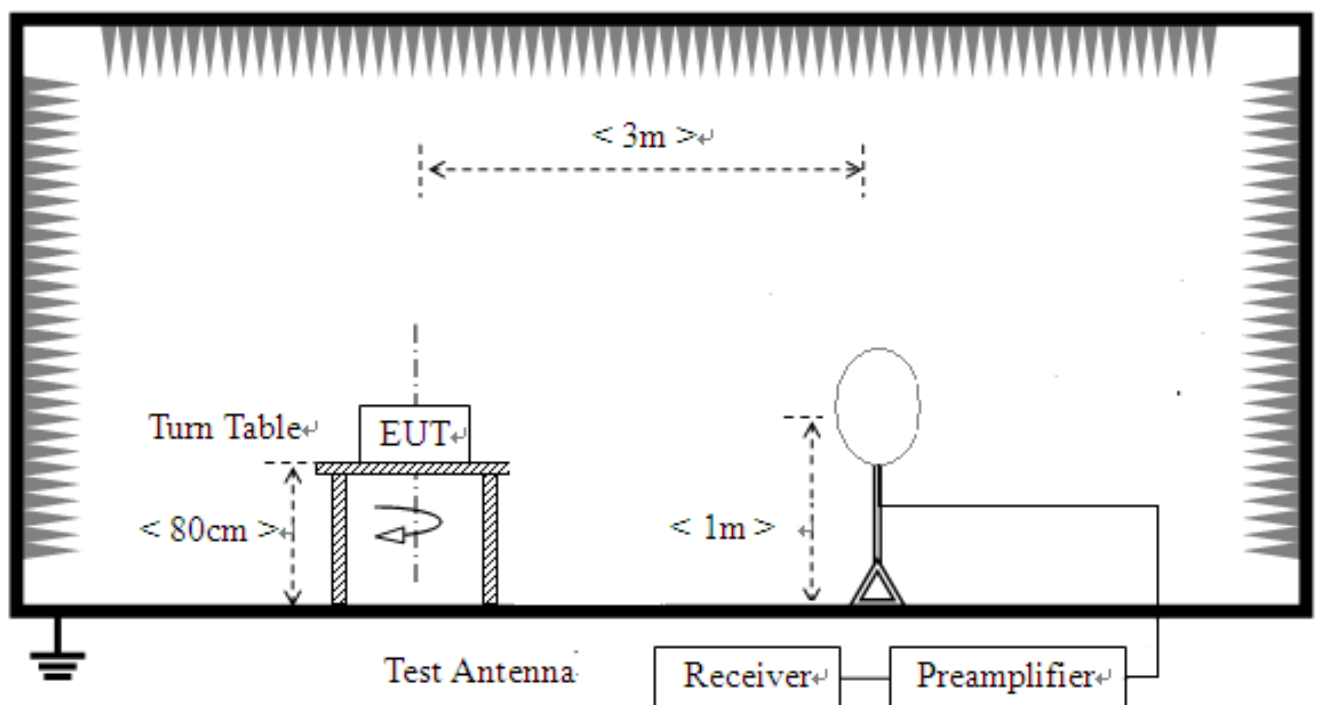
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB.

2.8.2 Measuring Instruments

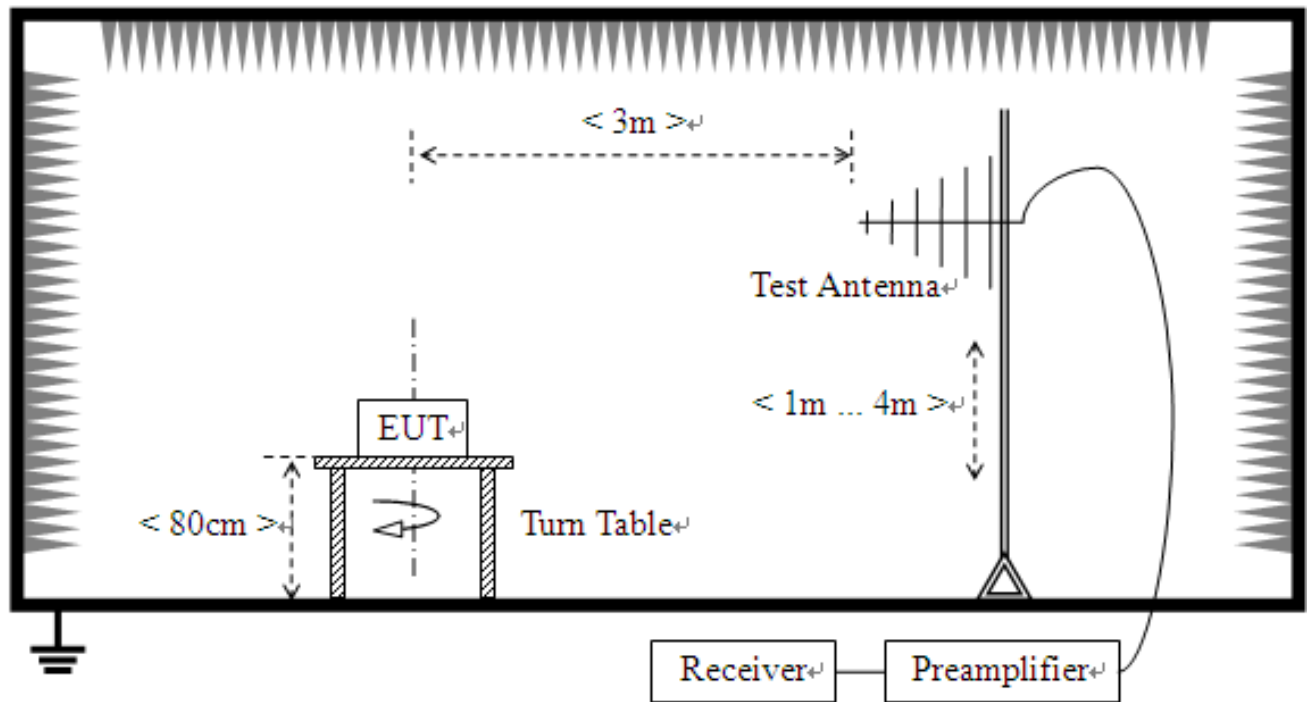
The measuring equipment is listed in the section 3 of this test report.

2.8.3 Test Setup

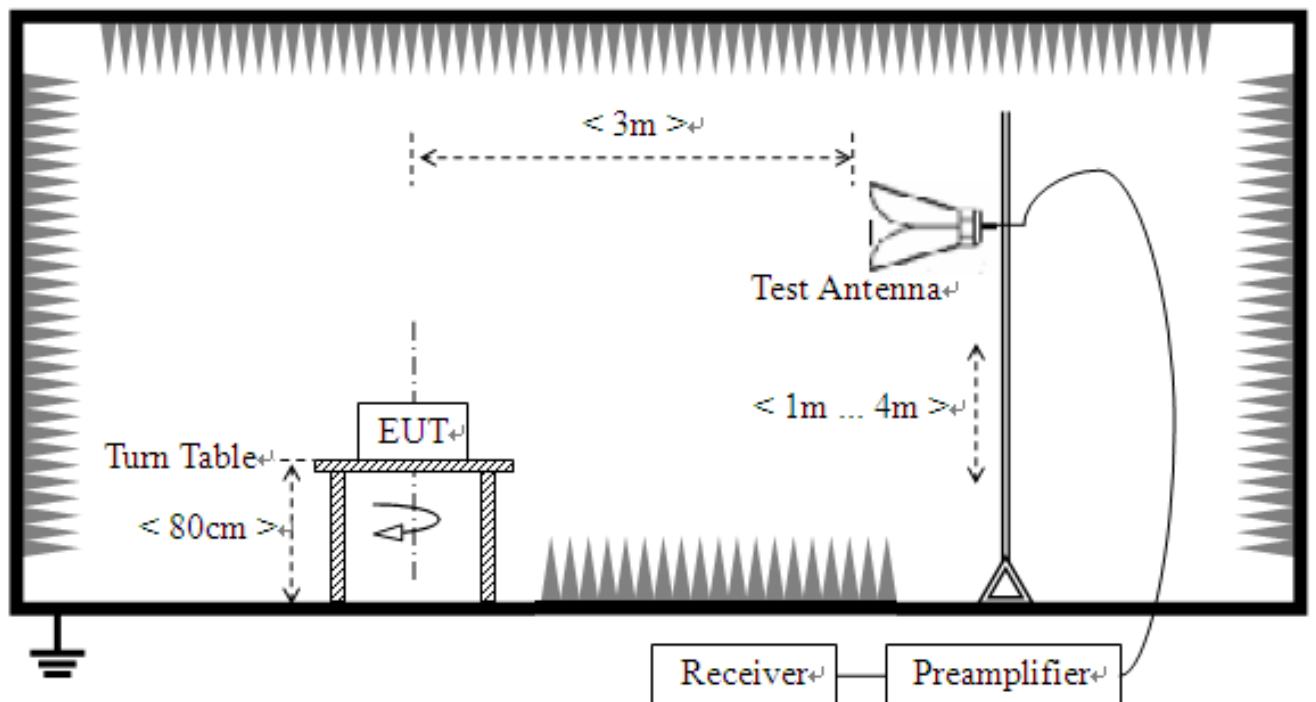
For radiated emissions from 9kHz to 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



2.8.4 Test Procedures

1. The EUT was placed on a rotatable wooden table with 0.8 meter above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P (Watts)
 $= P(W) - [43 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (dB)
 $= -13$ dBm.

<For Band 7>

The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P (Watts)
 $= P(W) - [55 + 10\log(P)]$ (dB)
 $= [30 + 10\log(P)]$ (dBm) - $[55 + 10\log(P)]$ (dB)
 $= -25$ dBm.

11. All Spurious Emission tests were performed in X, Y, Z axis direction and low, middle, high channel. And only the worst axis test condition was recorded in this test report.
12. The spectrum is measured from 9 KHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. The worst case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.



13. The maximum RB configurations of the Radiated Spurious Emissions as RB Size 1,
RB Offset 0

2.8.5 Test Result (Plots) of Radiated Spurious Emission

Note: 1. within 30MHz-1GHz were found more than 20dB below limit line

Note: 2. Absolute Level=Reading Level + Factor

LTE Band 2 QPSK 20MHz BW Middle Channel

NO.	Freq. [MHz]	Reading Level [dBm]	Absolute Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	3768.3842	-51.67	-43.24	-13.00	30.24	8.43	Horizontal
2	5653.3267	-47.42	-36.31	-13.00	23.31	11.11	Horizontal
3	7536.7684	-57.62	-41.73	-13.00	28.73	15.89	Horizontal
4	9421.7109	-60.08	-40.23	-13.00	27.23	19.85	Horizontal
5	11306.653	-59.51	-36.34	-13.00	23.34	23.17	Horizontal
6	13191.595	-58.98	-32.81	-13.00	19.81	26.17	Horizontal
7	15076.538	-62.51	-33.08	-13.00	20.08	29.43	Horizontal
8	16961.480	-59.81	-27.39	-13.00	14.39	32.42	Horizontal

NO.	Freq. [MHz]	Reading Level [dBm]	Absolute Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	3768.3842	-55.56	-47.13	-13.00	34.13	8.43	Vertical
2	5653.3267	-54.95	-43.84	-13.00	30.84	11.11	Vertical
3	7536.7684	-58.12	-42.23	-13.00	29.23	15.89	Vertical
4	9421.7109	-57.01	-37.16	-13.00	24.16	19.85	Vertical
5	11306.653	-60.37	-37.20	-13.00	24.20	23.17	Vertical
6	13191.595	-60.63	-34.46	-13.00	21.46	26.17	Vertical
7	15076.538	-61.40	-31.97	-13.00	18.97	29.43	Vertical
8	16961.480	-60.03	-27.61	-13.00	14.61	32.42	Vertical

Note: other spurious emissions are 20dB below limit line and no need to report



LTE Band 4 QPSK 20MHz BW Middle Channel

NO.	Freq. [MHz]	Reading Level [dBm]	Absolute Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	2439.7199	-45.75	-41.76	-13.00	28.76	3.99	Horizontal
2	3472.7364	-38.91	-31.71	-13.00	18.71	7.20	Horizontal
3	5209.1046	-48.29	-38.00	-13.00	25.00	10.29	Horizontal
4	6948.4742	-58.44	-43.31	-13.00	30.31	15.13	Horizontal
5	8683.3417	-59.88	-41.52	-13.00	28.52	18.36	Horizontal

NO.	Freq. [MHz]	Reading Level [dBm]	Absolute Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	3472.7364	-48.79	-41.93	-13.00	28.93	6.86	Vertical
2	5209.1046	-54.99	-45.04	-13.00	32.04	9.95	Vertical
3	6942.4712	-52.05	-37.88	-13.00	24.88	14.17	Vertical
4	8683.3417	-58.45	-40.55	-13.00	27.55	17.90	Vertical
5	10418.209	-57.15	-34.97	-13.00	21.97	22.18	Vertical

Note: other spurious emissions are 20dB below limit line and no need to report

LTE Band 5 QPSK 10MHz BW Middle Channel

NO.	Freq. [MHz]	Reading Level [dBm]	Absolute Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	1681.3407	-50.36	-52.21	-13.00	39.21	-1.85	Horizontal
2	2521.7609	-49.06	-45.82	-13.00	32.82	3.24	Horizontal
3	3199.5998	-53.87	-44.83	-13.00	31.83	9.04	Horizontal
4	3526.7634	-56.59	-49.44	-13.00	36.44	7.15	Horizontal
5	4407.7039	-57.79	-49.77	-13.00	36.77	8.02	Horizontal

NO.	Freq. [MHz]	Reading Level [dBm]	Absolute Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	1763.3817	-54.75	-56.19	-13.00	43.19	-1.44	Vertical
2	2644.8224	-56.48	-52.75	-13.00	39.75	3.73	Vertical
3	3526.7634	-57.01	-50.18	-13.00	37.18	6.83	Vertical
4	4407.7039	-57.05	-49.38	-13.00	36.38	7.67	Vertical
5	5290.1451	-57.84	-47.23	-13.00	34.23	10.61	Vertical

Note: other spurious emissions are 20dB below limit line and no need to report

LTE Band 7 QPSK 20MHz BW Middle Channel

NO.	Freq. [MHz]	Reading Level [dBm]	Absolute Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	5077.0385	-43.55	-32.90	-25	7.9	10.65	Horizontal
2	7614.8074	-56.70	-39.98	-25	14.98	16.72	Horizontal
3	10154.077	-58.23	-36.23	-25	11.23	22.00	Horizontal
4	12693.346	-59.09	-33.40	-25	8.4	25.69	Horizontal
5	15232.616	-61.96	-31.93	-25	6.93	30.03	Horizontal
6	17771.885	-61.80	-27.57	-25	2.57	34.23	Horizontal

NO.	Freq. [MHz]	Reading Level [dBm]	Absolute Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	5077.0385	-47.55	-37.25	-25	12.25	10.30	Vertical
2	7614.8074	-56.65	-40.79	-25	15.79	15.86	Vertical
3	10154.077	-49.71	-28.01	-25	3.01	21.70	Vertical
4	12693.346	-59.01	-32.73	-25	7.73	26.28	Vertical
5	15232.616	-62.44	-32.07	-25	7.07	30.37	Vertical
6	17771.885	-60.34	-26.03	-25	1.03	34.31	Vertical

Note:other spurious emissions are 20dB below limit line and no need to report

LTE Band 12 QPSK 15MHz BW Middle Channel

NO.	Freq. [MHz]	Reading Level [dBm]	Absolute Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	1423.2116	-54.36	-58.33	-13.00	45.33	-3.97	Horizontal
2	2134.5673	-50.23	-48.29	-13.00	35.29	1.94	Horizontal
3	2846.9235	-57.26	-52.65	-13.00	39.65	4.61	Horizontal
4	3558.2791	-57.16	-50.18	-13.00	37.18	6.98	Horizontal
5	4269.6348	-56.09	-48.29	-13.00	35.29	7.80	Horizontal
6	4982.4912	-57.83	-48.31	-13.00	35.31	9.52	Horizontal

NO.	Freq. [MHz]	Reading Level [dBm]	Absolute Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	1423.2116	-54.55	-58.80	-13.00	45.80	-4.25	Vertical
2	2134.5673	-56.08	-54.14	-13.00	41.14	1.94	Vertical
3	2846.9235	-56.39	-51.72	-13.00	38.72	4.67	Vertical
4	3558.2791	-56.91	-50.17	-13.00	37.17	6.74	Vertical
5	4269.6348	-56.97	-49.63	-13.00	36.63	7.34	Vertical
6	4982.4912	-57.81	-48.55	-13.00	35.55	9.26	Vertical

Note:other spurious emissions are 20dB below limit line and no need to report



LTE Band 66 QPSK 20MHz BW Middle Channel

NO.	Freq. [MHz]	Reading Level [dBm]	Absolute Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	3471.2356	-39.76	-32.56	-13.00	19.56	7.20	Horizontal
2	5209.1046	-47.88	-37.59	-13.00	24.59	10.29	Horizontal
3	6948.4742	-58.65	-43.52	-13.00	30.52	15.13	Horizontal
4	8683.3417	-58.55	-40.19	-13.00	27.19	18.36	Horizontal
5	10418.209	-59.79	-37.36	-13.00	24.36	22.43	Horizontal

NO.	Freq. [MHz]	Reading Level [dBm]	Absolute Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	3472.7364	-50.31	-43.45	-13.00	30.45	6.86	Vertical
2	5209.1046	-55.40	-45.45	-13.00	32.45	9.95	Vertical
3	6942.4712	-52.41	-38.24	-13.00	25.24	14.17	Vertical
4	8683.3417	-58.52	-40.62	-13.00	27.62	17.90	Vertical
5	10418.209	-56.27	-34.09	-13.00	21.09	22.18	Vertical

Note: other spurious emissions are 20dB below limit line and no need to report

LTE Band 7_CA QPSK 20MHz+20MHz BW Middle Channel

NO.	Freq. [MHz]	Reading Level [dBm]	Absolute Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	5070.3251	-41.35	-30.7	-25	5.70	10.65	Horizontal
2	7605.1542	-46.95	-30.23	-25	5.23	16.72	Horizontal
3	10140.254	-57.84	-35.84	-25	10.84	22.00	Horizontal
4	12675.426	-58.95	-33.26	-25	8.26	25.69	Horizontal

NO.	Freq. [MHz]	Reading Level [dBm]	Absolute Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity
1	5070.3258	-42.36	-31.71	-25	6.71	10.65	Vertical
2	7605.2148	-51.24	-34.52	-25	9.52	16.72	Vertical
3	10140.178	-57.95	-35.95	-25	10.95	22.00	Vertical
4	12675.255	-58.88	-33.19	-25	8.19	25.69	Vertical

Note: other spurious emissions are 20dB below limit line and no need to report



3. LIST OF MEASURING EQUIPMENT

Description	Manufacturer	Model	Serial No.	Cal. Date	Due Date	Remark
EMI Test Receiver	R&S	ESIB26	A0304218	2018.05.25	2019.05.24	Radiation
Loop Antenna	Schwarz beck	HFH2-Z2	100047	2018.05.25	2019.05.24	Radiation
Bilog Antenna	Schwarzbeck	VULB 9163	9163-274	2018.05.25	2019.05.24	Radiation
Broadband antenna (30MHz~1GHz)	R&S	HL562	101341	2018.05.25	2019.05.24	Radiation
Broadband antenna (30MHz~1GHz)	R&S	HL562	101339	2018.05.25	2019.05.24	Radiation
Double ridge horn antenna (1GHz~18GHz)	R&S	HF906	100150	2018.05.25	2019.05.24	Radiation
Double ridge horn antenna (1GHz~18GHz)	R&S	HF906	100148	2018.05.25	2019.05.24	Radiation
Horn antenna (18GHz~26.5GHz)	R&S	HM118	101286	2018.05.25	2019.05.24	Radiation
Horn antenna (18GHz~26.5GHz)	R&S	HM118	101284	2018.05.25	2019.05.24	Radiation
Amplifier 20M~3GHz	R&S	PAP-0203H	22018	2018.05.25	2019.05.24	Radiation
Ampilier 1G~18GHz	R&S	MITEQ AFS42-00101800	25-S-42	2018.05.25	2019.05.24	Radiation
Ampilier 18G~40GHz	R&S	JS42-18002600-2 8-5A	12111.0980.00	2018.05.25	2019.05.24	Radiation
Spectrum Analyzer	R&S	FSP40	1164.4391.40	2017.11.12	2018.11.11	Conducted
LISN	ROHDE&SCH WARZ	ESH2-Z5	A0304221	2018.05.25	2019.05.24	Conducted
Test Receiver	R&S	ESCS30	A0304260	2018.05.25	2019.05.24	Conducted
Cable	SUNHNER	SUCOFLEX 100	/	2018.05.25	2019.05.24	Radiation
Cable	SUNHNER	SUCOFLEX 104	/	2018.05.25	2019.05.24	Radiation
Temperature chamber	espec	SU-642	93008519	2017.08.25	2018.08.24	Conducted
Wideband Radio Communication tester	R&S	CMW500	149332	2018.05.04	2019.05.03	Conducted
Power Supply	R&S	NGMO1	101037	2018.05.04	2019.05.03	Conducted

APPENDIX A

Conducted RF (Average) Output Power

Test Result and Data

1. LTE Band 2 Conducted Power Test Verdict:

LTE FDD Band 2				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18607	18900	19193
1.4MHz	QPSK	1	0	21.95	22.02	22.15
		1	3	21.82	21.92	22.03
		1	5	21.84	21.91	22.02
		3	0	21.12	21.20	21.30
		3	2	21.13	21.19	21.27
		3	3	21.14	21.21	21.28
		6	0	21.00	21.08	21.17
	16QAM	1	0	20.82	20.87	21.04
		1	3	20.67	20.76	20.91
		1	5	20.80	20.84	21.03
		3	0	19.89	19.95	20.22
		3	2	19.97	20.05	20.25
		3	3	19.99	20.06	20.19
		6	0	19.87	19.96	20.04
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
3MHz	QPSK	1	0	22.12	22.23	22.19
		1	7	21.99	22.13	22.07
		1	14	22.01	22.12	22.06
		8	0	21.29	21.41	21.34
		8	4	21.30	21.40	21.31
		8	7	21.31	21.42	21.32
		15	0	21.17	21.29	21.21
	16QAM	1	0	20.99	21.08	21.08
		1	7	20.84	20.97	20.95
		1	14	20.97	21.05	21.07
		8	0	20.06	20.16	20.26
		8	4	20.14	20.26	20.29

		8	7	20.16	20.27	20.23
		15	0	20.04	20.17	20.08
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18625	18900	19175
5MHz	QPSK	1	0	22.16	22.27	22.23
		1	13	22.03	22.17	22.11
		1	24	22.05	22.16	22.1
		12	0	21.33	21.45	21.38
		12	6	21.34	21.44	21.35
		12	13	21.35	21.46	21.36
		25	0	21.21	21.33	21.25
	16QAM	1	0	21.03	21.12	21.12
		1	13	20.88	21.01	20.99
		1	24	21.01	21.09	21.11
		12	0	20.1	20.2	20.3
		12	6	20.18	20.3	20.33
		12	13	20.2	20.31	20.27
		25	0	20.08	20.21	20.12
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18650	18900	19150
10MHz	QPSK	1	0	22.32	22.41	22.38
		1	25	22.19	22.31	22.26
		1	49	22.21	22.3	22.25
		25	0	21.49	21.59	21.53
		25	13	21.5	21.58	21.5
		25	25	21.51	21.6	21.51
		50	0	21.37	21.47	21.4
	16QAM	1	0	21.19	21.26	21.27
		1	25	21.04	21.15	21.14
		1	49	21.17	21.23	21.26
		25	0	20.26	20.34	20.45
		25	13	20.34	20.44	20.48
		25	25	20.36	20.45	20.42
		50	0	20.24	20.35	20.27
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18675	18900	19125
15MHz	QPSK	1	0	22.15	22.1	22.22
		1	38	22.02	22	22.1
		1	74	22.04	21.99	22.09

		36	0	21.32	21.28	21.37
		36	18	21.33	21.27	21.34
		36	39	21.34	21.29	21.35
		75	0	21.2	21.16	21.24
	16QAM	1	0	21.02	20.95	21.11
		1	38	20.87	20.84	20.98
		1	74	21	20.92	21.1
		36	0	20.09	20.03	20.29
		36	18	20.17	20.13	20.32
		36	39	20.19	20.14	20.26
		75	0	20.07	20.04	20.11
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel
					18700	18900
20MHz	QPSK	1	0	22.41	22.51	22.48
		1	50	22.28	22.41	22.36
		1	99	22.3	22.4	22.35
		50	0	21.58	21.69	21.63
		50	25	21.59	21.68	21.6
		50	50	21.6	21.7	21.61
		100	0	21.46	21.57	21.5
	16QAM	1	0	21.28	21.36	21.37
		1	50	21.13	21.25	21.24
		1	99	21.26	21.33	21.36
		50	0	20.35	20.44	20.55
		50	25	20.43	20.54	20.58
		50	50	20.45	20.55	20.52
		100	0	20.33	20.45	20.37

2. LTE Band 4 Conducted Power Test Verdict:

LTE FDD Band 4				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19957	20175	20393
1.4MHz	QPSK	1	0	21.85	21.91	22.03
		1	3	21.72	21.81	21.91
		1	5	21.74	21.8	21.9
		3	0	21.02	21.09	21.18
		3	2	21.03	21.08	21.15
		3	3	21.04	21.1	21.16
		6	0	20.9	20.97	21.05
	16QAM	1	0	20.72	20.76	20.92
		1	3	20.57	20.65	20.79
		1	5	20.7	20.73	20.91
		3	0	19.79	19.84	20.1
		3	2	19.87	19.94	20.13
		3	3	19.89	19.95	20.07
		6	0	19.77	19.85	19.92
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19965	20175	20385
3MHz	QPSK	1	0	22.15	22.23	22.13
		1	7	22.02	22.13	22.01
		1	14	22.04	22.12	22
		8	0	21.32	21.41	21.28
		8	4	21.33	21.4	21.25
		8	7	21.34	21.42	21.26
		15	0	21.2	21.29	21.15
	16QAM	1	0	21.02	21.08	21.02
		1	7	20.87	20.97	20.89
		1	14	21	21.05	21.01
		8	0	20.09	20.16	20.2
		8	4	20.17	20.26	20.23
		8	7	20.19	20.27	20.17
		15	0	20.07	20.17	20.02
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19975	20175	20375
5MHz	QPSK	1	0	22.21	22.25	22.16
		1	13	22.08	22.15	22.04

			1	24	22.1	22.14	22.03
			12	0	21.38	21.43	21.31
			12	6	21.39	21.42	21.28
			12	13	21.4	21.44	21.29
			25	0	21.26	21.31	21.18
		16QAM	1	0	21.08	21.1	21.05
			1	13	20.93	20.99	20.92
			1	24	21.06	21.07	21.04
			12	0	20.15	20.18	20.23
			12	6	20.23	20.28	20.26
			12	13	20.25	20.29	20.2
			25	0	20.13	20.19	20.05
	Bandwidth	Modulation	RB size	RB offset	Channel 20000	Channel 20175	Channel 20350
	10MHz	QPSK	1	0	22.23	22.28	22.19
			1	25	22.1	22.18	22.07
			1	49	22.12	22.17	22.06
			25	0	21.4	21.46	21.34
			25	13	21.41	21.45	21.31
			25	25	21.42	21.47	21.32
			50	0	21.28	21.34	21.21
		16QAM	1	0	21.1	21.13	21.08
			1	25	20.95	21.02	20.95
			1	49	21.08	21.1	21.07
			25	0	20.17	20.21	20.26
			25	13	20.25	20.31	20.29
			25	25	20.27	20.32	20.23
			50	0	20.15	20.22	20.08
	Bandwidth	Modulation	RB size	RB offset	Channel 20025	Channel 20175	Channel 20325
	15MHz	QPSK	1	0	22.28	22.31	22.26
			1	38	22.15	22.21	22.14
			1	74	22.17	22.2	22.13
			36	0	21.45	21.49	21.41
			36	18	21.46	21.48	21.38
			36	39	21.47	21.5	21.39
			75	0	21.33	21.37	21.28
		16QAM	1	0	21.15	21.16	21.15
			1	38	21	21.05	21.02

		1	74	21.13	21.13	21.14
		36	0	20.22	20.24	20.33
		36	18	20.3	20.34	20.36
		36	39	20.32	20.35	20.3
		75	0	20.2	20.25	20.15
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20050	20175	20300
20MHz	QPSK	1	0	22.31	22.55	22.45
		1	50	22.18	22.45	22.33
		1	99	22.2	22.44	22.32
		50	0	21.48	21.73	21.6
		50	25	21.49	21.72	21.57
		50	50	21.5	21.74	21.58
		100	0	21.36	21.61	21.47
	16QAM	1	0	21.18	21.4	21.34
		1	50	21.03	21.29	21.21
		1	99	21.16	21.37	21.33
		50	0	20.25	20.48	20.52
		50	25	20.33	20.58	20.55
		50	50	20.35	20.59	20.49
		100	0	20.23	20.49	20.34

3. LTE Band 5 Conducted Power Test Verdict:

LTE FDD Band 5				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20407	20525	20643
1.4MHz	QPSK	1	0	22.13	22.25	22.31
		1	3	22	22.14	22.2
		1	5	21.98	22.1	22.17
		3	0	21.32	21.39	21.45
		3	2	21.28	21.42	21.49
		3	3	21.29	21.41	21.44
		6	0	21.14	21.22	21.34
	16QAM	1	0	21	21.13	21.16
		1	3	20.89	20.98	21.05
		1	5	20.98	21.09	21.14
		3	0	20.09	20.21	20.33
		3	2	20.12	20.3	20.39
		3	3	20.18	20.32	20.3
		6	0	20.04	20.14	20.09
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20415	20525	20635
3MHz	QPSK	1	0	22.18	22.31	22.33
		1	7	22.03	22.17	22.19
		1	14	22.07	22.18	22.18
		8	0	21.36	21.46	21.5
		8	4	21.37	21.49	21.52
		8	7	21.38	21.47	21.45
		15	0	21.2	21.34	21.34
	16QAM	1	0	21.06	21.18	21.16
		1	7	20.91	21.03	21.01
		1	14	21.03	21.12	21.13
		8	0	20.14	20.24	20.35
		8	4	20.2	20.36	20.44
		8	7	20.25	20.34	20.33
		15	0	20.1	20.18	20.09
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20425	20525	20625
5MHz	QPSK	1	0	22.37	22.48	22.36
		1	13	22.22	22.33	22.25

			1	24	22.24	22.36	22.21
			12	0	21.55	21.65	21.55
			12	6	21.56	21.64	21.52
			12	13	21.54	21.61	21.51
			25	0	21.4	21.49	21.36
		16QAM	1	0	21.23	21.36	21.2
			1	13	21.1	21.22	21.06
			1	24	21.18	21.34	21.13
			12	0	20.29	20.44	20.35
			12	6	20.42	20.5	20.48
			12	13	20.41	20.53	20.34
			25	0	20.26	20.42	20.1
	Bandwidth	Modulation	RB size	RB offset	Channel 20450	Channel 20525	Channel 20600
	10MHz	QPSK	1	0	22.56	22.66	22.42
			1	25	22.38	22.54	22.27
			1	49	22.4	22.54	22.31
			25	0	21.75	21.83	21.59
			25	13	21.71	21.82	21.6
			25	25	21.73	21.85	21.61
			50	0	21.62	21.7	21.41
		16QAM	1	0	21.43	21.51	21.27
			1	25	21.32	21.4	21.16
			1	49	21.38	21.43	21.24
			25	0	20.52	20.57	20.43
			25	13	20.57	20.62	20.51
			25	25	20.58	20.65	20.39
			50	0	20.45	20.48	20.17

4. LTE Band 7 Conducted Power Test Verdict:

LTE FDD Band 7				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20775	21100	21425
5MHz	QPSK	1	0	19.85	20.15	20.11
		1	13	19.74	20	19.96
		1	24	19.72	20.02	20
		12	0	18.97	19.3	19.28
		12	6	19	19.34	19.25
		12	13	19.02	19.32	19.26
		25	0	18.86	19.12	19.17
	16QAM	1	0	18.74	19.03	18.95
		1	13	18.62	18.9	18.84
		1	24	18.69	18.98	18.94
		12	0	17.83	18.05	18.1
		12	6	17.86	18.19	18.19
		12	13	17.88	18.14	18.12
		25	0	17.77	17.99	18
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20800	21100	21400
10MHz	QPSK	1	0	20.35	20.41	20.33
		1	25	20.24	20.26	20.18
		1	49	20.22	20.28	20.22
		25	0	19.47	19.56	19.5
		25	13	19.5	19.6	19.47
		25	25	19.52	19.58	19.48
		50	0	19.36	19.38	19.39
	16QAM	1	0	19.24	19.29	19.17
		1	25	19.12	19.16	19.06
		1	49	19.19	19.24	19.16
		25	0	18.33	18.31	18.32
		25	13	18.36	18.45	18.41
		25	25	18.38	18.4	18.34
		50	0	18.27	18.25	18.22
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20825	21100	21375
15MHz	QPSK	1	0	20.45	20.61	20.61

		1	38	20.34	20.46	20.46
		1	74	20.32	20.48	20.5
		36	0	19.57	19.76	19.78
		36	18	19.6	19.8	19.75
		36	39	19.62	19.78	19.76
		75	0	19.46	19.58	19.67
	16QAM	1	0	19.34	19.49	19.45
		1	38	19.22	19.36	19.34
		1	74	19.29	19.44	19.44
		36	0	18.43	18.51	18.6
		36	18	18.46	18.65	18.69
		36	39	18.48	18.6	18.62
		75	0	18.37	18.45	18.5
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel
20850					21100	21350
20MHz	QPSK	1	0	20.71	20.86	20.78
		1	50	20.6	20.71	20.63
		1	99	20.58	20.73	20.67
		50	0	19.83	20.01	19.95
		50	25	19.86	20.05	19.92
		50	50	19.88	20.03	19.93
		100	0	19.72	19.83	19.84
	16QAM	1	0	19.6	19.74	19.62
		1	50	19.48	19.61	19.51
		1	99	19.55	19.69	19.61
		50	0	18.69	18.76	18.77
		50	25	18.72	18.9	18.86
		50	50	18.74	18.85	18.79
		100	0	18.63	18.7	18.67

5. LTE Band 12 Conducted Power Test Verdict:

LTE FDD Band 12				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23017	23095	23173
1.4MHz	QPSK	1	0	22.81	22.67	22.78
		1	3	22.69	22.55	22.66
		1	5	22.7	22.56	22.65
		3	0	21.96	21.85	21.96
		3	2	21.99	21.82	21.94
		3	3	21.93	21.86	21.95
		6	0	21.83	21.72	21.81
	16QAM	1	0	21.68	21.52	21.66
		1	3	21.57	21.41	21.53
		1	5	21.66	21.49	21.61
		3	0	20.73	20.57	20.82
		3	2	20.85	20.7	20.93
		3	3	20.84	20.67	20.85
		6	0	20.66	20.54	20.63
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23025	23095	23165
3MHz	QPSK	1	0	22.91	22.85	22.74
		1	7	22.79	22.73	22.62
		1	14	22.8	22.74	22.61
		8	0	22.06	22.03	21.92
		8	4	22.09	22	21.9
		8	7	22.03	22.04	21.91
		15	0	21.93	21.9	21.77
	16QAM	1	0	21.78	21.7	21.62
		1	7	21.67	21.59	21.49
		1	14	21.76	21.67	21.57
		8	0	20.83	20.75	20.78
		8	4	20.95	20.88	20.89
		8	7	20.94	20.85	20.81
		15	0	20.76	20.72	20.59
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23035	23095	23155
5MHz	QPSK	1	0	22.85	22.96	22.91

		1	13	22.73	22.84	22.79
		1	24	22.74	22.85	22.78
		12	0	22	22.14	22.09
		12	6	22.03	22.11	22.07
		12	13	21.97	22.15	22.08
		25	0	21.87	22.01	21.94
		1	0	21.72	21.81	21.79
	16QAM	1	13	21.61	21.7	21.66
		1	24	21.7	21.78	21.74
		12	0	20.77	20.86	20.95
		12	6	20.89	20.99	21.06
		12	13	20.88	20.96	20.98
		25	0	20.7	20.83	20.76
		Bandwidth	Modulation	RB size	RB offset	Channel 23060
10MHz	QPSK	1	0	23.05	23.12	23.01
		1	25	22.93	23	22.89
		1	49	22.94	23.01	22.88
		25	0	22.2	22.3	22.19
		25	13	22.23	22.27	22.17
		25	25	22.17	22.31	22.18
		50	0	22.07	22.17	22.04
	16QAM	1	0	21.92	21.97	21.89
		1	25	21.81	21.86	21.76
		1	49	21.9	21.94	21.84
		25	0	20.97	21.02	21.05
		25	13	21.09	21.15	21.16
		25	25	21.08	21.12	21.08
		50	0	20.9	20.99	20.86

6. LTE Band 66 Conducted Power Test Verdict

LTE FDD Band 66				Conducted Power(dBm)		
Bandwidth	Modulation	RB size	RB offset	Channel 131979	Channel 132322	Channel 132665
1.4MHz	QPSK	1	0	22.15	22.35	22.41
		1	3	22.02	22.25	22.29
		1	5	22.04	22.24	22.28
		3	0	21.32	21.53	21.56
		3	2	21.33	21.52	21.53
		3	3	21.34	21.54	21.54
		6	0	21.2	21.41	21.43
	16QAM	1	0	21.02	21.2	21.3
		1	3	20.87	21.09	21.17
		1	5	21	21.17	21.29
		3	0	20.09	20.28	20.48
		3	2	20.17	20.38	20.51
		3	3	20.19	20.39	20.45
		6	0	20.07	20.29	20.3
Bandwidth	Modulation	RB size	RB offset	Channel 131987	Channel 12322	Channel 132657
3MHz	QPSK	1	0	22.26	22.41	22.38
		1	7	22.13	22.31	22.26
		1	14	22.15	22.3	22.25
		8	0	21.43	21.59	21.53
		8	4	21.44	21.58	21.5
		8	7	21.45	21.6	21.51
		15	0	21.31	21.47	21.4
	16QAM	1	0	21.13	21.26	21.27
		1	7	20.98	21.15	21.14
		1	14	21.11	21.23	21.26
		8	0	20.2	20.34	20.45
		8	4	20.28	20.44	20.48
		8	7	20.3	20.45	20.42
		15	0	20.18	20.35	20.27
Bandwidth	Modulation	RB size	RB offset	Channel 131997	Channel 132322	Channel 132647
5MHz	QPSK	1	0	22.38	22.45	22.51
		1	13	22.25	22.35	22.39

			1	24	22.27	22.34	22.38
			12	0	21.55	21.63	21.66
			12	6	21.56	21.62	21.63
			12	13	21.57	21.64	21.64
			25	0	21.43	21.51	21.53
		16QAM	1	0	21.25	21.3	21.4
			1	13	21.1	21.19	21.27
			1	24	21.23	21.27	21.39
			12	0	20.32	20.38	20.58
			12	6	20.4	20.48	20.61
			12	13	20.42	20.49	20.55
			25	0	20.3	20.39	20.4
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
					132022	132322	132622
	10MHz	QPSK	1	0	22.46	22.55	22.69
			1	25	22.33	22.45	22.57
			1	49	22.35	22.44	22.56
			25	0	21.63	21.73	21.84
			25	13	21.64	21.72	21.81
			25	25	21.65	21.74	21.82
			50	0	21.51	21.61	21.71
		16QAM	1	0	21.33	21.4	21.58
			1	25	21.18	21.29	21.45
			1	49	21.31	21.37	21.57
			25	0	20.4	20.48	20.76
			25	13	20.48	20.58	20.79
			25	25	20.5	20.59	20.73
			50	0	20.38	20.49	20.58
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
					132047	132322	132597
	15MHz	QPSK	1	0	22.85	22.91	22.76
			1	38	22.72	22.81	22.64
			1	74	22.74	22.8	22.63
			36	0	22.02	22.09	21.91
			36	18	22.03	22.08	21.88
			36	39	22.04	22.1	21.89
			75	0	21.9	21.97	21.78
		16QAM	1	0	21.72	21.76	21.65
			1	38	21.57	21.65	21.52

		1	74	21.7	21.73	21.64
		36	0	20.79	20.84	20.83
		36	18	20.87	20.94	20.86
		36	39	20.89	20.95	20.8
		75	0	20.77	20.85	20.65
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				132072	132322	132572
20MHz	QPSK	1	0	23.15	23.2	23.17
		1	50	23.02	23.1	23.05
		1	99	23.04	23.09	23.04
		50	0	22.32	22.38	22.32
		50	25	22.33	22.37	22.29
		50	50	22.34	22.39	22.3
		100	0	22.2	22.26	22.19
	16QAM	1	0	22.02	22.05	22.06
		1	50	21.87	21.94	21.93
		1	99	22	22.02	22.05
		50	0	21.09	21.13	21.24
		50	25	21.17	21.23	21.27
		50	50	21.19	21.24	21.21
		100	0	21.07	21.14	21.06

8.Band 7 CA

BW (MHz)	Freq (MHz)	Freq (MHz)	Mode	PCC RB	PCC RB	SCC RB	SCC RB	Power (dBm)
				Size	offset	Size	offset	
10+20	2505.5	2519.9	QPSK	1	49	1	0	22.30
				1	24	1	49	14.46



			16QAM	50	0	100	0	20.89
				1	49	1	0	22.09
				1	24	1	49	14.51
				50	0	100	0	19.80
10+20	2525.6	2540.0	QPSK	1	49	1	0	22.40
				1	24	1	49	14.38
				50	0	100	0	20.79
			16QAM	1	49	1	0	22.12
				1	24	1	49	14.47
				50	0	100	0	19.65
10+20	2545.6	2560.0	QPSK	1	49	1	0	22.27
				1	24	1	49	14.39
				50	0	100	0	20.67
			16QAM	1	49	1	0	22.10
				1	24	1	49	14.60
				50	0	100	0	19.74
20+10	2510.0	2524.4	QPSK	1	0	1	0	14.35
				1	0	1	49	14.01
				1	0	50	0	18.65
				1	99	1	49	13.47
				1	99	50	0	19.10
				100	0	1	49	19.24
				100	0	50	0	19.78
				1	99	1	0	22.03
				100	0	1	0	19.74
			16QAM	1	0	1	0	14.49
				1	0	1	49	14.02
				1	0	50	0	18.64
				1	99	1	49	13.78
				1	99	50	0	18.96
				100	0	1	49	19.41
				100	0	50	0	19.63
				1	99	1	0	22.19
				100	0	1	0	19.85
20+10	2530.1	2544.5	QPSK	1	0	1	0	14.69
				1	0	1	49	13.90
				1	0	50	0	18.73
				1	99	1	49	13.85
				1	99	50	0	19.10



				100	0	1	49	19.44
				100	0	50	0	19.86
				1	99	1	0	22.04
				100	0	1	0	19.89
			16QAM	1	0	1	0	14.56
				1	0	1	49	13.89
				1	0	50	0	18.50
				1	99	1	49	13.95
				1	99	50	0	18.98
				100	0	1	49	19.29
				100	0	50	0	19.73
				1	99	1	0	22.23
				100	0	1	0	19.93
			QPSK	1	0	1	0	14.57
				1	0	1	49	13.99
				1	0	50	0	18.68
				1	99	1	49	13.75
				1	99	50	0	19.18
				100	0	1	49	19.37
				100	0	50	0	19.88
				1	99	1	0	22.13
				100	0	1	0	19.76
			16QAM	1	0	1	0	14.63
				1	0	1	49	13.95
				1	0	50	0	18.48
				1	99	1	49	13.85
				1	99	50	0	18.79
				100	0	1	49	19.32
				100	0	50	0	19.67
				1	99	1	0	22.45
				100	0	1	0	19.93
15+20	2507.8	2524.9	QPSK	1	74	1	0	22.04
				1	36	1	49	11.56
				75	0	100	0	19.78
			16QAM	1	74	1	0	21.89
				1	36	1	49	11.31
				75	0	100	0	19.82
15+20	2523.5	2542.4	QPSK	1	74	1	0	22.16
				1	36	1	49	11.46
				75	0	100	0	19.68



			16QAM	1	74	1	0	21.74
				1	36	1	49	11.29
				75	0	100	0	19.88
15+20	2542.9	2560.0	QPSK	1	74	1	0	22.00
				1	36	1	49	11.45
				75	0	100	0	19.67
			16QAM	1	74	1	0	21.84
				1	36	1	49	11.29
				75	0	100	0	19.75
15+15	2507.5	2522.5	QPSK	1	74	1	0	22.28
				75	0	75	0	19.79
			16QAM	1	74	1	0	21.97
				75	0	75	0	19.24
15+15	2527.5	2542.5	QPSK	1	74	1	0	22.21
				75	0	75	0	19.68
			16QAM	1	74	1	0	21.89
				75	0	75	0	19.20
15+15	2547.5	2562.5	QPSK	1	74	1	0	22.26
				75	0	75	0	19.78
			16QAM	1	74	1	0	21.85
				75	0	75	0	19.16
15+10	2507.5	2519.5	QPSK	1	74	1	49	22.06
				1	36	1	24	12.35
				75	0	50	0	19.65
			16QAM	1	74	1	49	21.68
				1	36	1	24	11.47
				75	0	50	0	19.79
15+10	2530.1	2542.1	QPSK	1	74	1	49	22.05
				1	36	1	24	12.28
				75	0	50	0	19.67
			16QAM	1	74	1	49	21.67
				1	36	1	24	11.36
				75	0	50	0	19.68
15+10	2552.7	2564.7	QPSK	1	74	1	49	22.00
				1	36	1	24	12.39
				75	0	50	0	19.64
			16QAM	1	74	1	49	21.70
				1	36	1	24	11.38
				75	0	50	0	19.28
20+15	2510.0	2527.1	QPSK	1	99	1	0	20.19



			16QAM	100	0	75	0	19.78
				1	99	1	0	20.90
				100	0	75	0	19.85
20+15	2527.6	2544.7	QPSK	1	99	1	0	20.08
				100	0	75	0	19.77
			16QAM	1	99	1	0	20.84
				100	0	75	0	19.65
20+15	2545.1	2562.2	QPSK	1	99	1	0	20.10
				100	0	75	0	19.68
			16QAM	1	99	1	0	20.80
				100	0	75	0	19.83
20+20	2510.0	2529.8	QPSK	1	0	1	0	14.72
				1	0	1	99	13.64
				1	0	100	0	19.68
				1	49	1	49	14.21
				1	99	1	99	14.08
				1	99	100	0	20.89
				100	0	1	99	20.29
				100	0	1	99	20.58
				1	99	1	0	22.67
				100	0	1	0	20.9
			16QAM	1	0	1	0	14.01
				1	0	1	99	13.56
				1	0	100	0	19.36
				1	49	1	49	13.98
				1	99	1	99	14.24
				1	99	100	0	20.74
				100	0	1	99	20.08
				100	0	1	99	20.74
				1	99	1	0	22.64
				100	0	1	0	20.86
20+20	2525.1	2544.9	QPSK	1	0	1	0	14.62
				1	0	1	99	13.59
				1	0	100	0	19.66
				1	49	1	49	14.32
				1	99	1	99	14.10
				1	99	100	0	20.76
				100	0	1	99	20.30
				100	0	1	99	20.51
				1	99	1	0	22.82



				100	0	1	0	20.84
			16QAM	1	0	1	0	14.00
				1	0	1	99	13.51
				1	0	100	0	19.30
				1	49	1	49	13.84
				1	99	1	99	14.26
				1	99	100	0	20.74
				100	0	1	99	20.09
				100	0	1	99	20.66
				1	99	1	0	22.74
				100	0	1	0	20.79
20+20	2540.2	2560.0	QPSK	1	0	1	0	14.66
				1	0	1	99	13.70
				1	0	100	0	19.54
				1	49	1	49	14.24
				1	99	1	99	14.65
				1	99	100	0	20.79
				100	0	1	99	20.46
				100	0	1	99	20.49
				1	99	1	0	22.79
				100	0	1	0	20.88
			16QAM	1	0	1	0	14.36
				1	0	1	99	13.55
				1	0	100	0	19.49
				1	49	1	49	13.87
				1	99	1	99	14.22
				1	99	100	0	20.69
				100	0	1	99	20.15
				100	0	1	99	20.66
				1	99	1	0	22.57
				100	0	1	0	20.98



Peak To Average Ratio

Test Result and Data

PeakToAveragePowerRatio NormalTC_NormalVol							
Band	Range	BandWidth	RbMode	Modulation	PAPR (dBm)	Limit (dBm)	Result
FDD02	LowRange	1.4	OneRB_high	Q16	6.16	13.00	Pass
FDD02	LowRange	1.4	fullRB	Q16	6.25	13.00	Pass
FDD02	LowRange	3	OneRB_high	Q16	8.43	13.00	Pass
FDD02	LowRange	3	fullRB	Q16	8.42	13.00	Pass
FDD02	LowRange	5	OneRB_high	Q16	6.11	13.00	Pass
FDD02	LowRange	5	fullRB	Q16	6.38	13.00	Pass
FDD02	LowRange	10	OneRB_high	Q16	6.95	13.00	Pass
FDD02	LowRange	10	fullRB	Q16	6.48	13.00	Pass
FDD02	LowRange	15	OneRB_high	Q16	6.85	13.00	Pass
FDD02	LowRange	15	fullRB	Q16	6.62	13.00	Pass
FDD02	LowRange	20	OneRB_high	Q16	5.69	13.00	Pass
FDD02	LowRange	20	fullRB	Q16	6.48	13.00	Pass
FDD02	MidRange	1.4	OneRB_high	Q16	5.01	13.00	Pass
FDD02	MidRange	1.4	fullRB	Q16	5.52	13.00	Pass
FDD02	MidRange	3	OneRB_high	Q16	5.08	13.00	Pass
FDD02	MidRange	3	fullRB	Q16	5.66	13.00	Pass
FDD02	MidRange	5	OneRB_high	Q16	5.00	13.00	Pass
FDD02	MidRange	5	fullRB	Q16	5.63	13.00	Pass
FDD02	MidRange	10	OneRB_high	Q16	5.51	13.00	Pass
FDD02	MidRange	10	fullRB	Q16	5.69	13.00	Pass
FDD02	MidRange	15	OneRB_high	Q16	5.99	13.00	Pass
FDD02	MidRange	15	fullRB	Q16	5.88	13.00	Pass
FDD02	MidRange	20	OneRB_high	Q16	6.03	13.00	Pass
FDD02	MidRange	20	fullRB	Q16	5.78	13.00	Pass
FDD02	HighRange	1.4	OneRB_high	Q16	5.25	13.00	Pass
FDD02	HighRange	1.4	fullRB	Q16	5.24	13.00	Pass
FDD02	HighRange	3	OneRB_high	Q16	5.94	13.00	Pass



FDD02	HighRange	3	fullRB	Q16	8.46	13.00	Pass
FDD02	HighRange	5	OneRB_high	Q16	4.99	13.00	Pass
FDD02	HighRange	5	fullRB	Q16	5.83	13.00	Pass
FDD02	HighRange	10	OneRB_high	Q16	5.05	13.00	Pass
FDD02	HighRange	10	fullRB	Q16	6.03	13.00	Pass
FDD02	HighRange	15	OneRB_high	Q16	5.03	13.00	Pass
FDD02	HighRange	15	fullRB	Q16	6.25	13.00	Pass
FDD02	HighRange	20	OneRB_high	Q16	4.82	13.00	Pass
FDD02	HighRange	20	fullRB	Q16	6.20	13.00	Pass
FDD04	LowRange	1.4	OneRB_high	Q16	3.98	13.00	Pass
FDD04	LowRange	1.4	fullRB	Q16	5.39	13.00	Pass
FDD04	LowRange	3	OneRB_high	Q16	5.14	13.00	Pass
FDD04	LowRange	3	fullRB	Q16	6.41	13.00	Pass
FDD04	LowRange	5	OneRB_high	Q16	5.09	13.00	Pass
FDD04	LowRange	5	fullRB	Q16	5.95	13.00	Pass
FDD04	LowRange	10	OneRB_high	Q16	6.06	13.00	Pass
FDD04	LowRange	10	fullRB	Q16	6.42	13.00	Pass
FDD04	LowRange	15	OneRB_high	Q16	6.11	13.00	Pass
FDD04	LowRange	15	fullRB	Q16	6.72	13.00	Pass
FDD04	LowRange	20	OneRB_high	Q16	5.50	13.00	Pass
FDD04	LowRange	20	fullRB	Q16	6.70	13.00	Pass
FDD04	MidRange	1.4	OneRB_high	Q16	5.17	13.00	Pass
FDD04	MidRange	1.4	fullRB	Q16	6.30	13.00	Pass
FDD04	MidRange	3	OneRB_high	Q16	4.99	13.00	Pass
FDD04	MidRange	3	fullRB	Q16	6.35	13.00	Pass
FDD04	MidRange	5	OneRB_high	Q16	4.93	13.00	Pass
FDD04	MidRange	5	fullRB	Q16	6.36	13.00	Pass
FDD04	MidRange	10	OneRB_high	Q16	4.64	13.00	Pass
FDD04	MidRange	10	fullRB	Q16	6.41	13.00	Pass
FDD04	MidRange	15	OneRB_high	Q16	4.75	13.00	Pass
FDD04	MidRange	15	fullRB	Q16	6.49	13.00	Pass
FDD04	MidRange	20	OneRB_high	Q16	4.75	13.00	Pass



FDD04	MidRange	20	fullRB	Q16	6.44	13.00	Pass
FDD04	HighRange	1.4	OneRB_high	Q16	5.58	13.00	Pass
FDD04	HighRange	1.4	fullRB	Q16	6.36	13.00	Pass
FDD04	HighRange	3	OneRB_high	Q16	6.96	13.00	Pass
FDD04	HighRange	3	fullRB	Q16	6.95	13.00	Pass
FDD04	HighRange	5	OneRB_high	Q16	6.81	13.00	Pass
FDD04	HighRange	5	fullRB	Q16	6.90	13.00	Pass
FDD04	HighRange	10	OneRB_high	Q16	6.83	13.00	Pass
FDD04	HighRange	10	fullRB	Q16	6.72	13.00	Pass
FDD04	HighRange	15	OneRB_high	Q16	6.90	13.00	Pass
FDD04	HighRange	15	fullRB	Q16	6.52	13.00	Pass
FDD04	HighRange	20	OneRB_high	Q16	6.57	13.00	Pass
FDD04	HighRange	20	fullRB	Q16	6.35	13.00	Pass
FDD05	LowRange	1.4	OneRB_high	Q16	5.7	13.00	Pass
FDD05	LowRange	1.4	fullRB	Q16	5.98	13.00	Pass
FDD05	LowRange	3	OneRB_high	Q16	7.08	13.00	Pass
FDD05	LowRange	3	fullRB	Q16	6.07	13.00	Pass
FDD05	LowRange	5	OneRB_high	Q16	5.10	13.00	Pass
FDD05	LowRange	5	fullRB	Q16	6.57	13.00	Pass
FDD05	LowRange	10	OneRB_high	Q16	6.03	13.00	Pass
FDD05	LowRange	10	fullRB	Q16	6.39	13.00	Pass
FDD05	MidRange	1.4	OneRB_high	Q16	6.15	13.00	Pass
FDD05	MidRange	1.4	fullRB	Q16	6.89	13.00	Pass
FDD05	MidRange	3	OneRB_high	Q16	5.39	13.00	Pass
FDD05	MidRange	3	fullRB	Q16	6.20	13.00	Pass
FDD05	MidRange	5	OneRB_high	Q16	7.08	13.00	Pass
FDD05	MidRange	5	fullRB	Q16	6.97	13.00	Pass
FDD05	MidRange	10	OneRB_high	Q16	6.15	13.00	Pass
FDD05	MidRange	10	fullRB	Q16	6.89	13.00	Pass
FDD05	HighRange	1.4	OneRB_high	Q16	4.99	13.00	Pass
FDD05	HighRange	1.4	fullRB	Q16	6.04	13.00	Pass
FDD05	HighRange	3	OneRB_high	Q16	5.39	13.00	Pass



FDD05	HighRange	3	fullRB	Q16	6.02	13.00	Pass
FDD05	HighRange	5	OneRB_high	Q16	6.00	13.00	Pass
FDD05	HighRange	5	fullRB	Q16	6.20	13.00	Pass
FDD05	HighRange	10	OneRB_high	Q16	6.36	13.00	Pass
FDD05	HighRange	10	fullRB	Q16	6.43	13.00	Pass
FDD07	LowRange	5	OneRB_high	Q16	4.55	13.00	Pass
FDD07	LowRange	5	fullRB	Q16	5.88	13.00	Pass
FDD07	LowRange	10	OneRB_high	Q16	5.05	13.00	Pass
FDD07	LowRange	10	fullRB	Q16	5.82	13.00	Pass
FDD07	LowRange	15	OneRB_high	Q16	5.66	13.00	Pass
FDD07	LowRange	15	fullRB	Q16	5.98	13.00	Pass
FDD07	LowRange	20	OneRB_high	Q16	5.66	13.00	Pass
FDD07	LowRange	20	fullRB	Q16	5.93	13.00	Pass
FDD07	MidRange	5	OneRB_high	Q16	4.37	13.00	Pass
FDD07	MidRange	5	fullRB	Q16	5.85	13.00	Pass
FDD07	MidRange	10	OneRB_high	Q16	4.59	13.00	Pass
FDD07	MidRange	10	fullRB	Q16	5.87	13.00	Pass
FDD07	MidRange	15	OneRB_high	Q16	4.74	13.00	Pass
FDD07	MidRange	15	fullRB	Q16	6.00	13.00	Pass
FDD07	MidRange	20	OneRB_high	Q16	4.73	13.00	Pass
FDD07	MidRange	20	fullRB	Q16	5.89	13.00	Pass
FDD07	HighRange	5	OneRB_high	Q16	4.57	13.00	Pass
FDD07	HighRange	5	fullRB	Q16	5.90	13.00	Pass
FDD07	HighRange	10	OneRB_high	Q16	4.71	13.00	Pass
FDD07	HighRange	10	fullRB	Q16	6.12	13.00	Pass
FDD07	HighRange	15	OneRB_high	Q16	4.73	13.00	Pass
FDD07	HighRange	15	fullRB	Q16	6.46	13.00	Pass
FDD07	HighRange	20	OneRB_high	Q16	4.57	13.00	Pass
FDD07	HighRange	20	fullRB	Q16	6.46	13.00	Pass
FDD12	LowRange	3	OneRB_high	Q16	7.50	13.00	Pass
FDD12	LowRange	3	fullRB	Q16	6.91	13.00	Pass
FDD12	LowRange	5	OneRB_high	Q16	6.59	13.00	Pass



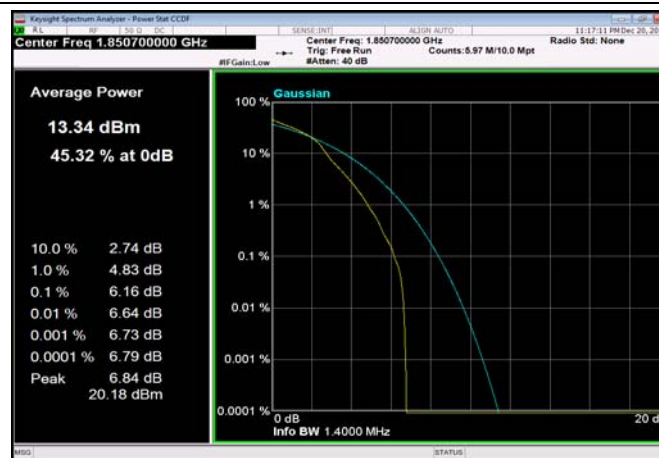
FDD12	LowRange	5	fullRB	Q16	6.91	13.00	Pass
FDD12	LowRange	10	OneRB_high	Q16	4.79	13.00	Pass
FDD12	LowRange	10	fullRB	Q16	6.16	13.00	Pass
FDD12	MidRange	1.4	OneRB_high	Q16	4.70	13.00	Pass
FDD12	MidRange	1.4	fullRB	Q16	5.44	13.00	Pass
FDD12	MidRange	3	OneRB_high	Q16	4.91	13.00	Pass
FDD12	MidRange	3	fullRB	Q16	5.74	13.00	Pass
FDD12	MidRange	5	OneRB_high	Q16	5.30	13.00	Pass
FDD12	MidRange	5	fullRB	Q16	5.84	13.00	Pass
FDD12	MidRange	10	OneRB_high	Q16	7.15	13.00	Pass
FDD12	MidRange	10	fullRB	Q16	6.28	13.00	Pass
FDD12	HighRange	1.4	OneRB_high	Q16	5.56	13.00	Pass
FDD12	HighRange	1.4	fullRB	Q16	6.55	13.00	Pass
FDD12	HighRange	3	OneRB_high	Q16	6.31	13.00	Pass
FDD12	HighRange	3	fullRB	Q16	6.62	13.00	Pass
FDD12	HighRange	5	OneRB_high	Q16	5.33	13.00	Pass
FDD12	HighRange	5	fullRB	Q16	6.88	13.00	Pass
FDD12	HighRange	10	OneRB_high	Q16	5.91	13.00	Pass
FDD12	HighRange	10	fullRB	Q16	6.60	13.00	Pass
FDD66	LowRange	1.4	OneRB_high	Q16	4.09	13.00	Pass
FDD66	LowRange	1.4	fullRB	Q16	5.34	13.00	Pass
FDD66	LowRange	3	OneRB_high	Q16	6.37	13.00	Pass
FDD66	LowRange	3	fullRB	Q16	5.34	13.00	Pass
FDD66	LowRange	5	OneRB_high	Q16	5.22	13.00	Pass
FDD66	LowRange	5	fullRB	Q16	5.94	13.00	Pass
FDD66	LowRange	10	OneRB_high	Q16	8.99	13.00	Pass
FDD66	LowRange	10	fullRB	Q16	6.38	13.00	Pass
FDD66	LowRange	15	OneRB_high	Q16	8.35	13.00	Pass
FDD66	LowRange	15	fullRB	Q16	8.36	13.00	Pass
FDD66	LowRange	20	OneRB_high	Q16	8.36	13.00	Pass
FDD66	LowRange	20	fullRB	Q16	6.70	13.00	Pass
FDD66	MidRange	1.4	OneRB_high	Q16	5.55	13.00	Pass



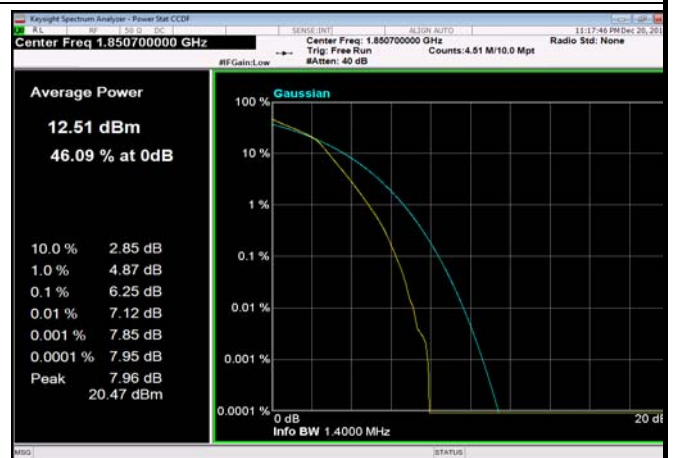
FDD66	MidRange	1.4	fullRB	Q16	33	13.00	Pass
FDD66	MidRange	3	OneRB_high	Q16	5.62	13.00	Pass
FDD66	MidRange	3	fullRB	Q16	6.21	13.00	Pass
FDD66	MidRange	5	OneRB_high	Q16	5.78	13.00	Pass
FDD66	MidRange	5	fullRB	Q16	6.18	13.00	Pass
FDD66	MidRange	10	OneRB_high	Q16	5.98	13.00	Pass
FDD66	MidRange	10	fullRB	Q16	6.23	13.00	Pass
FDD66	MidRange	15	OneRB_high	Q16	6.68	13.00	Pass
FDD66	MidRange	15	fullRB	Q16	6.34	13.00	Pass
FDD66	MidRange	20	OneRB_high	Q16	6.50	13.00	Pass
FDD66	MidRange	20	fullRB	Q16	6.37	13.00	Pass
FDD66	HighRange	1.4	OneRB_high	Q16	4.68	13.00	Pass
FDD66	HighRange	1.4	fullRB	Q16	8.41	13.00	Pass
FDD66	HighRange	3	OneRB_high	Q16	5.87	13.00	Pass
FDD66	HighRange	3	fullRB	Q16	6.75	13.00	Pass
FDD66	HighRange	5	OneRB_high	Q16	8.44	13.00	Pass
FDD66	HighRange	5	fullRB	Q16	6.57	13.00	Pass
FDD66	HighRange	10	OneRB_high	Q16	8.41	13.00	Pass
FDD66	HighRange	10	fullRB	Q16	6.14	13.00	Pass
FDD66	HighRange	15	OneRB_high	Q16	8.36	13.00	Pass
FDD66	HighRange	15	fullRB	Q16	6.08	13.00	Pass
FDD66	HighRange	20	OneRB_high	Q16	8.37	13.00	Pass
FDD66	HighRange	20	fullRB	Q16	6.09	13.00	Pass



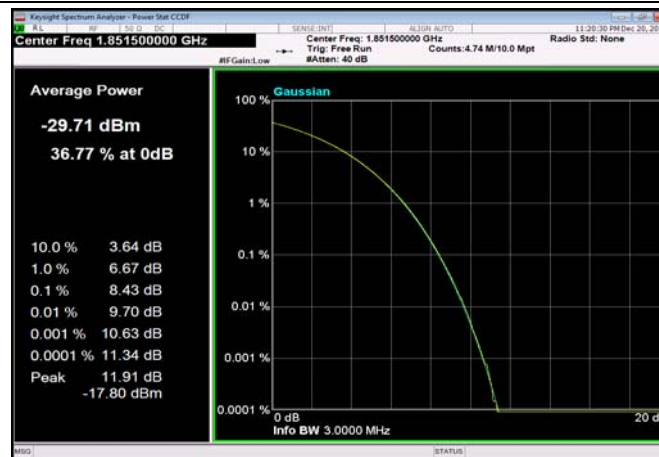
FDD02_1.4MHz_1850.7_OneRB_high_Q16



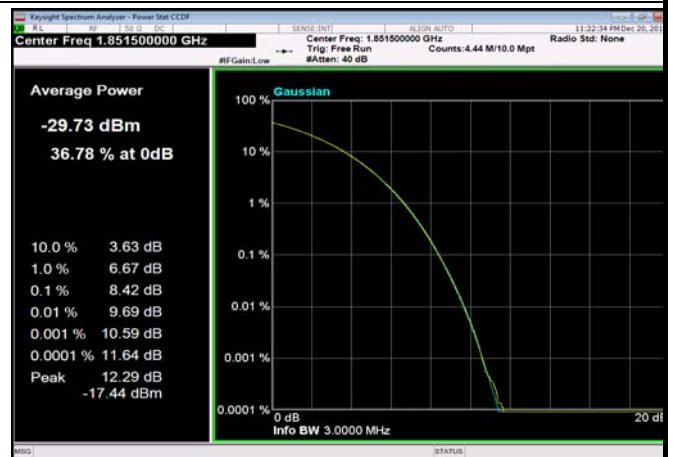
FDD02_1.4MHz_1850.7_fullRB_Q16



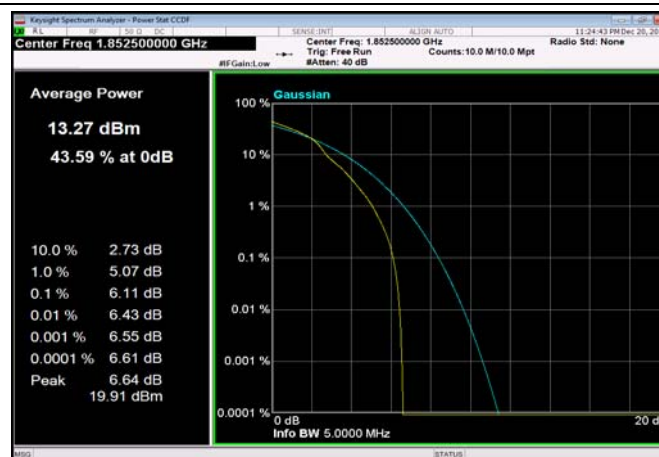
FDD02_3MHz_1851.5_OneRB_high_Q16



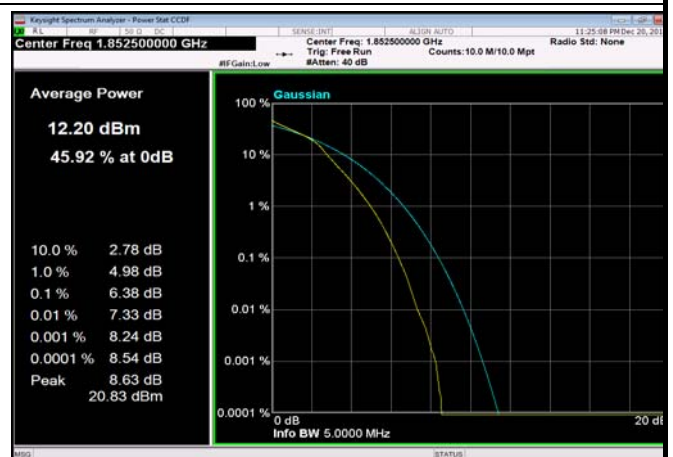
FDD02_3MHz_1851.5_fullRB_Q16



FDD02_5MHz_1852.5_OneRB_high_Q16

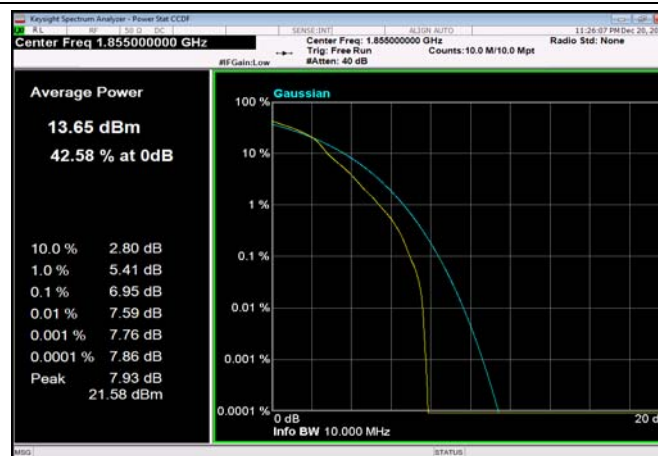


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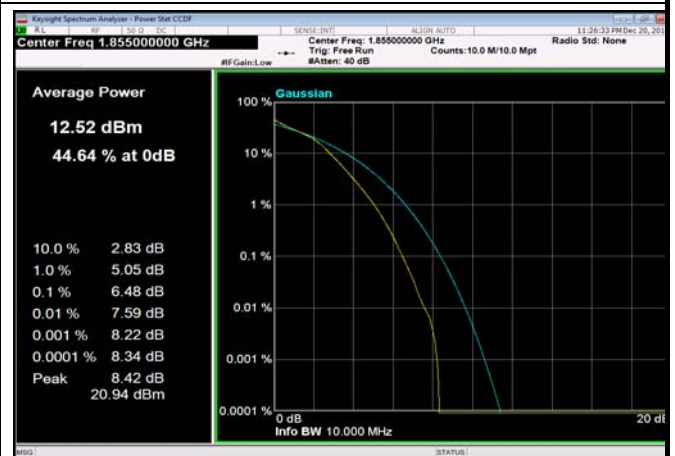




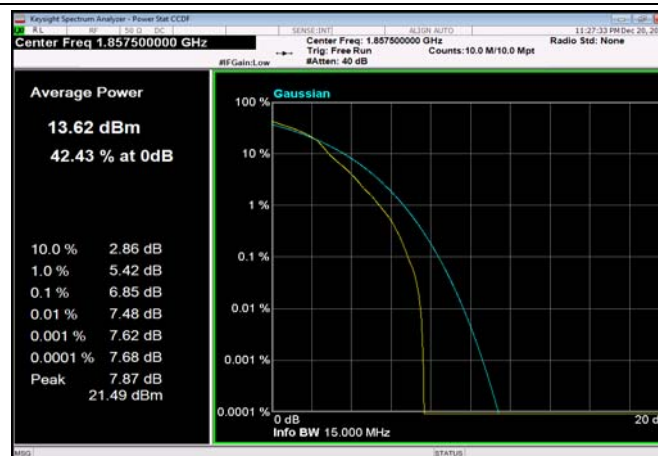
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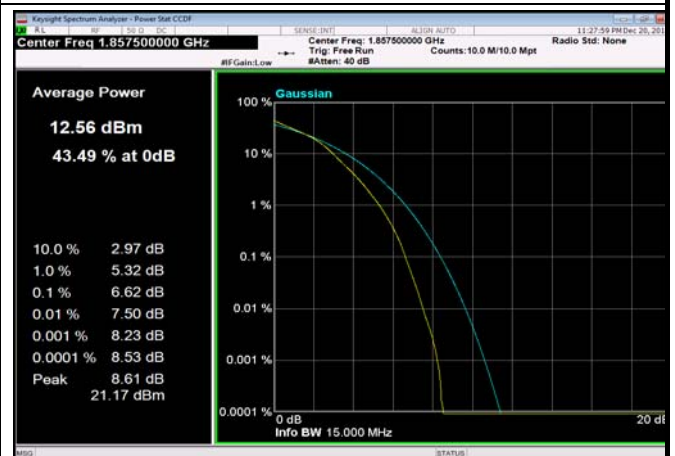
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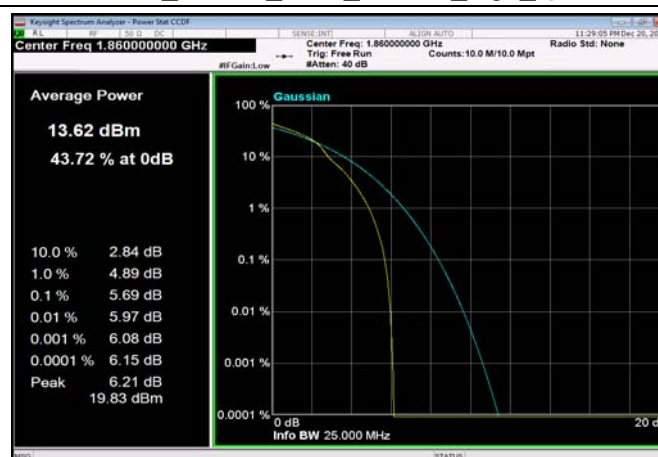
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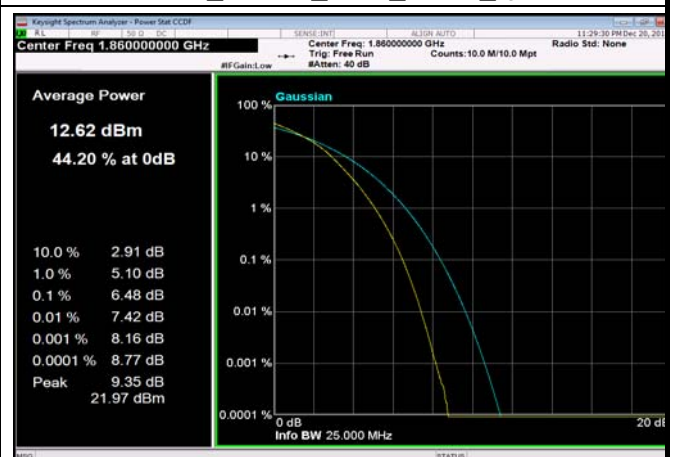
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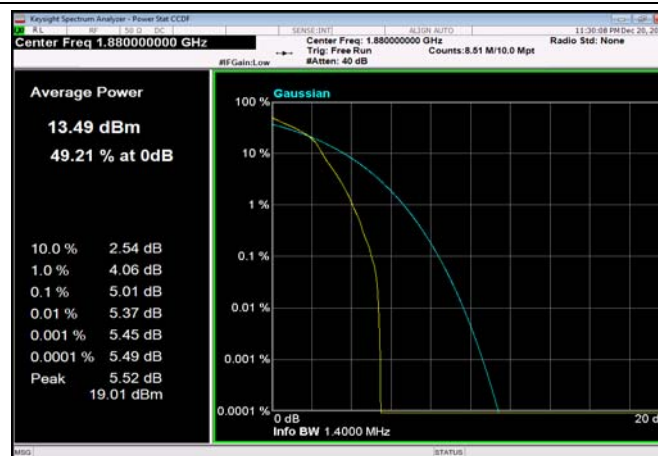


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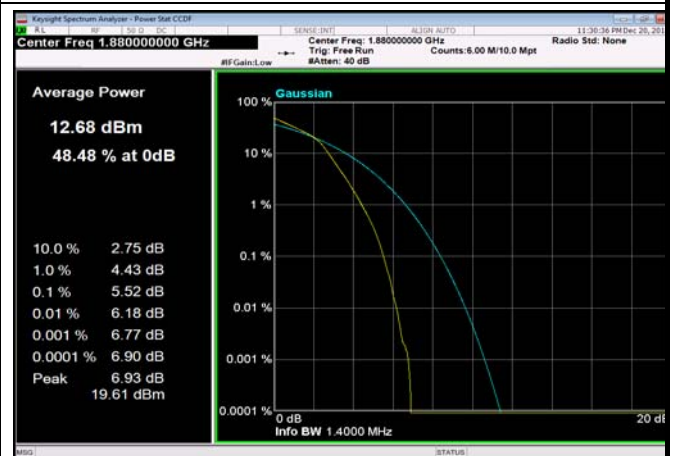




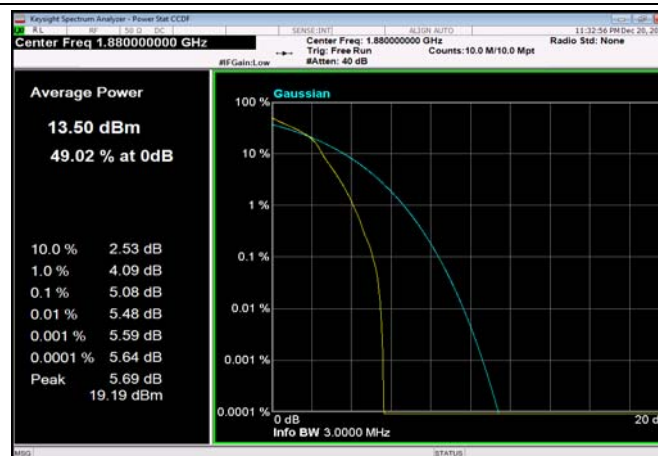
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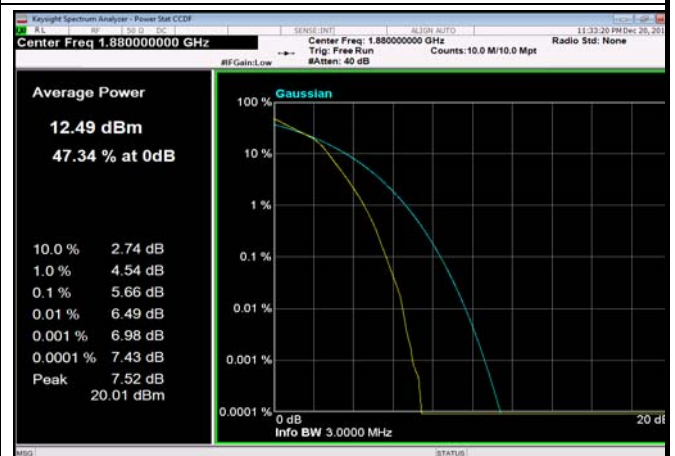
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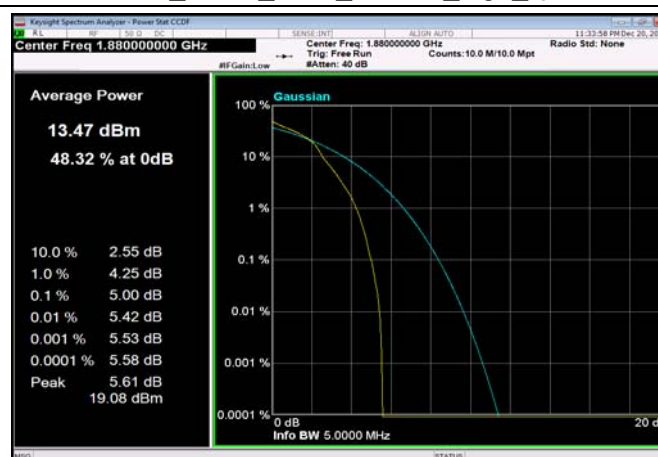
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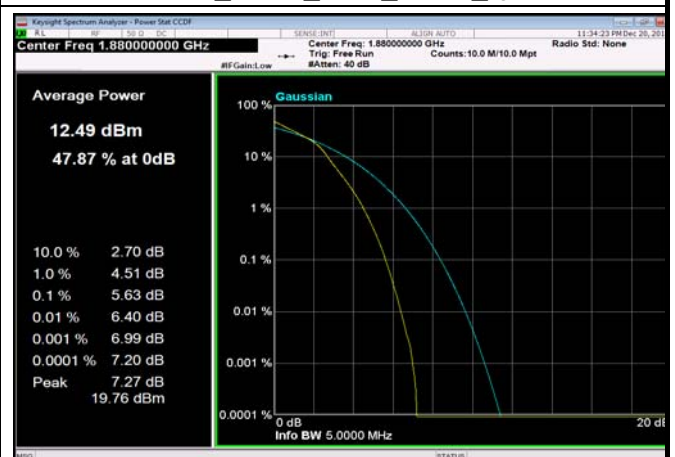
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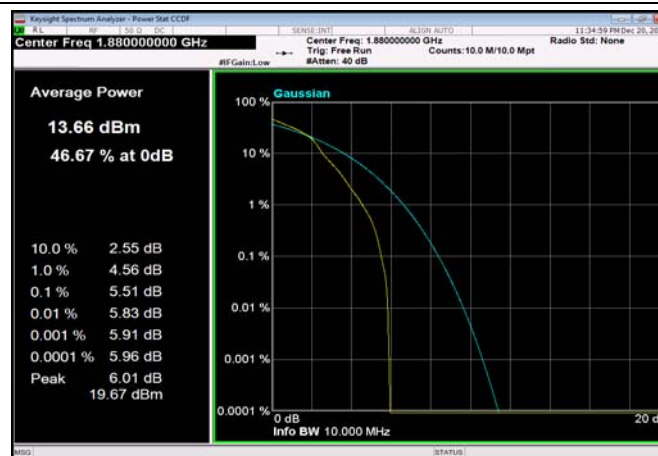


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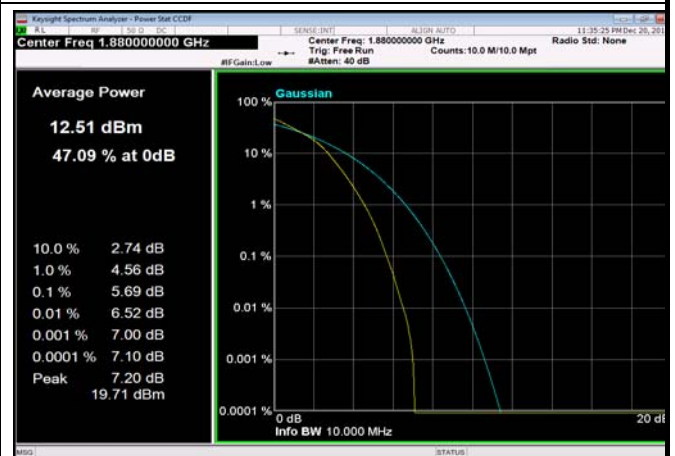




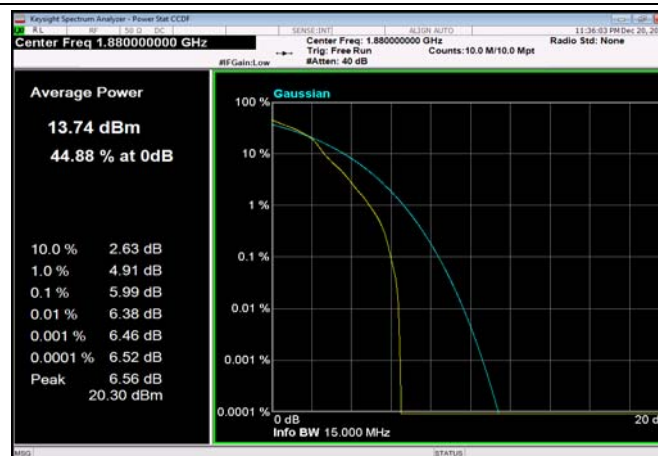
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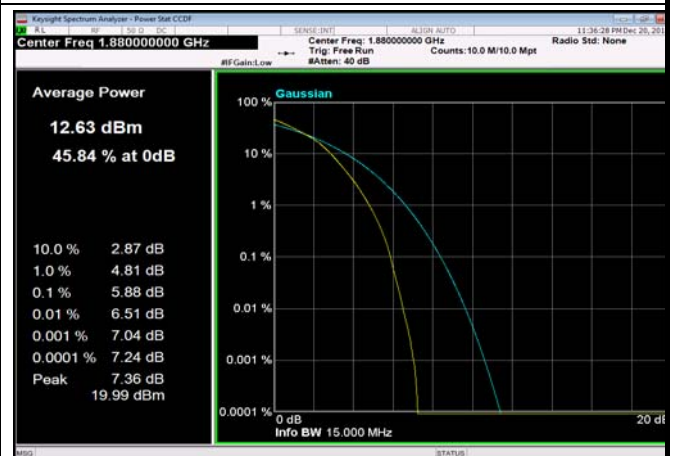
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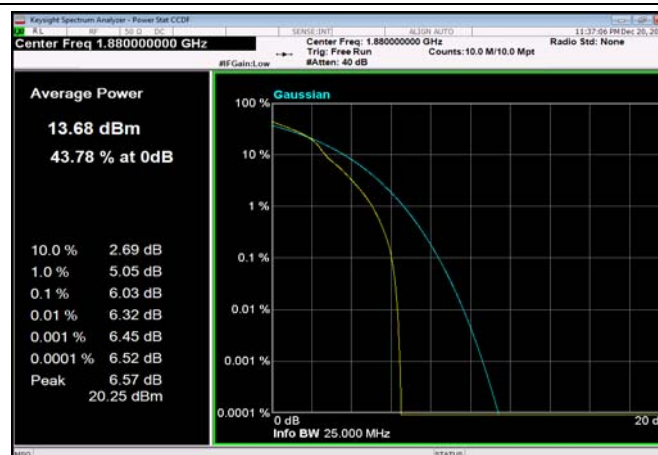
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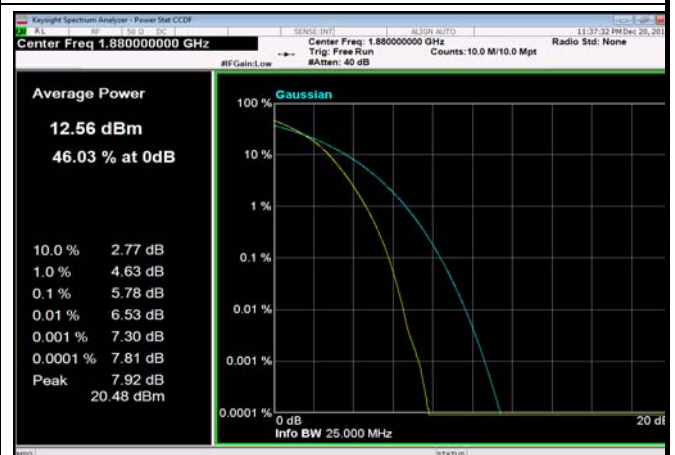
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FDD02_20MHz_1880_OneRB_high_Q16

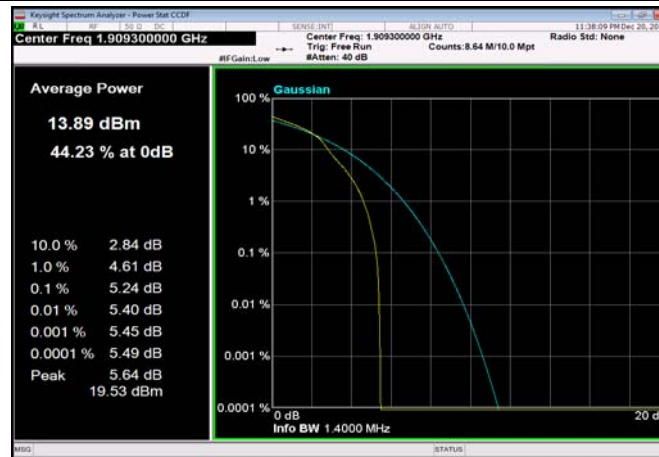


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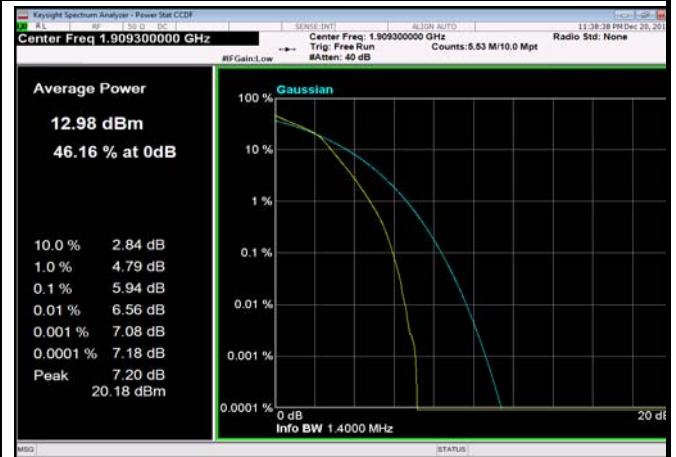




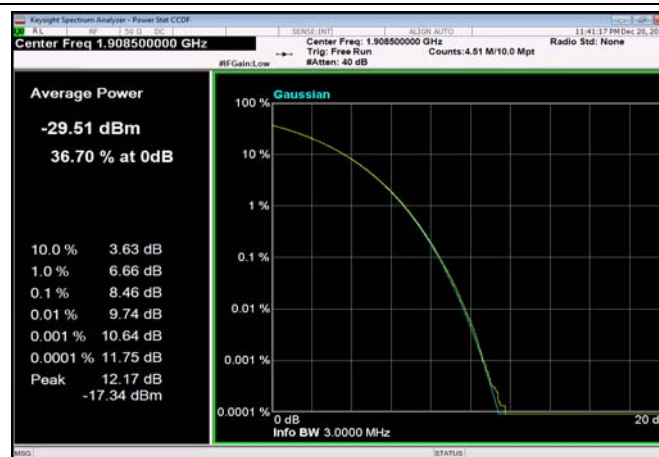
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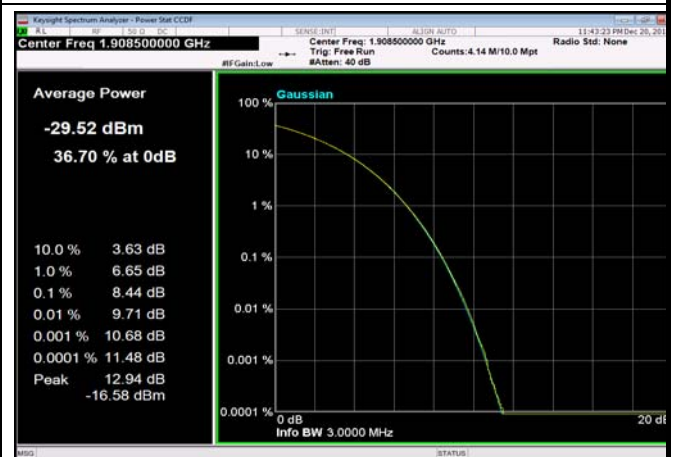
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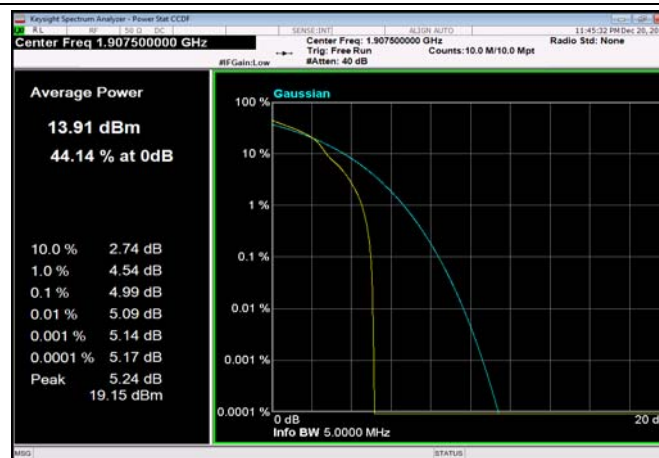
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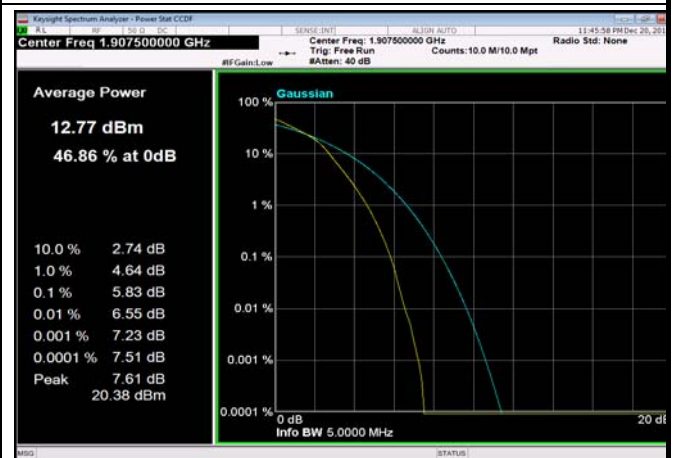
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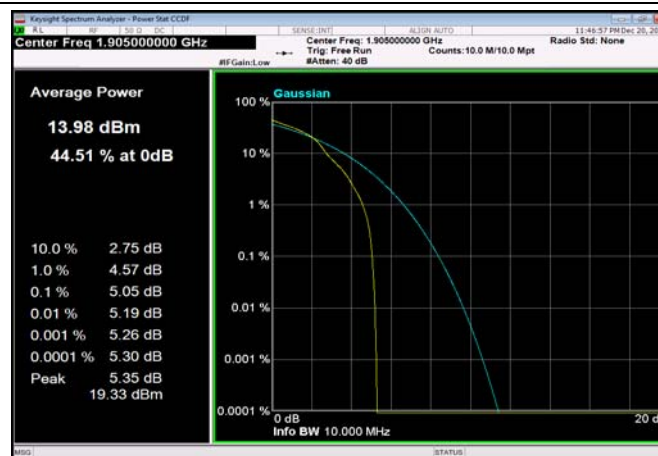


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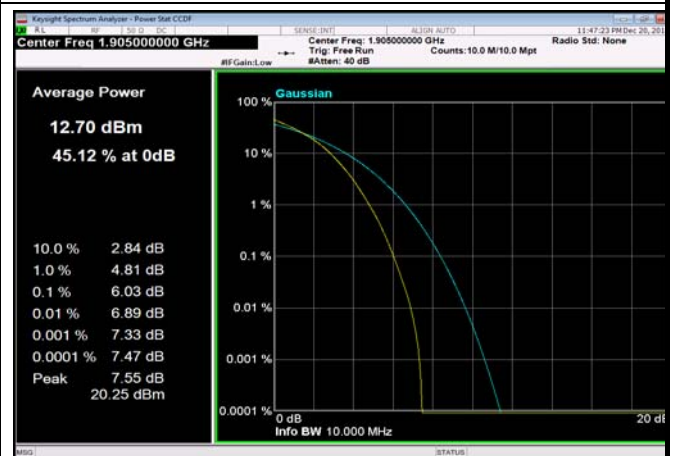




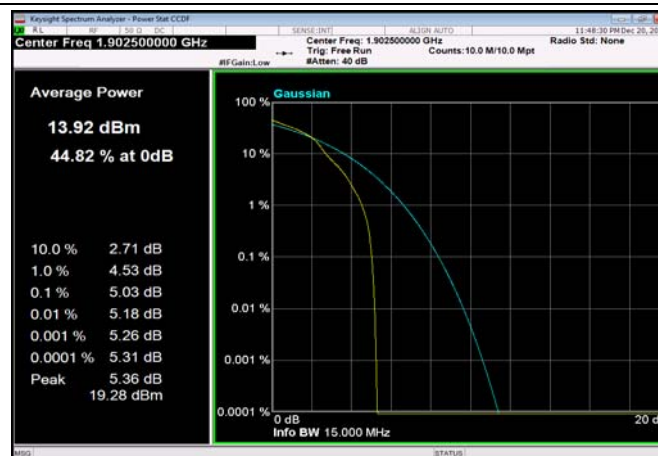
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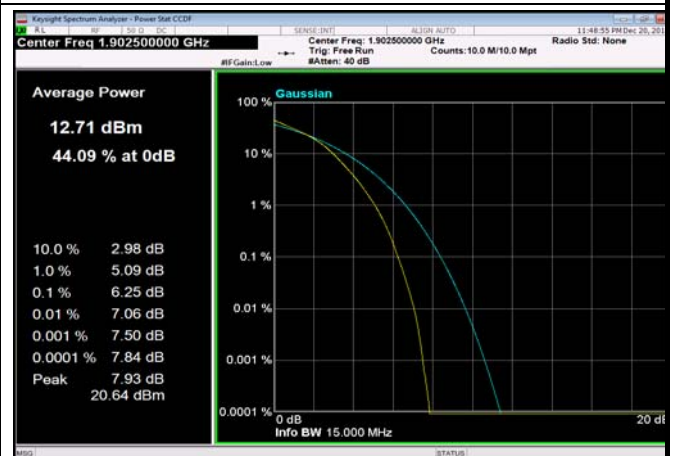
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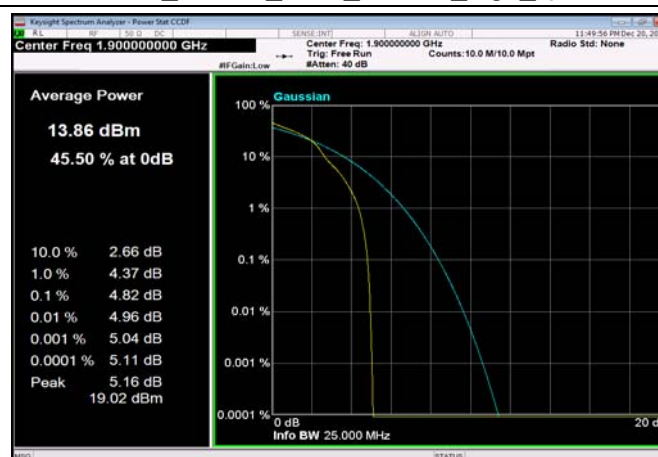
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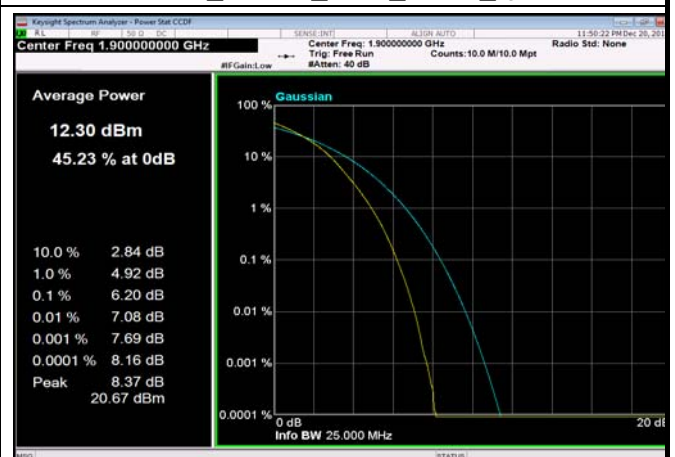
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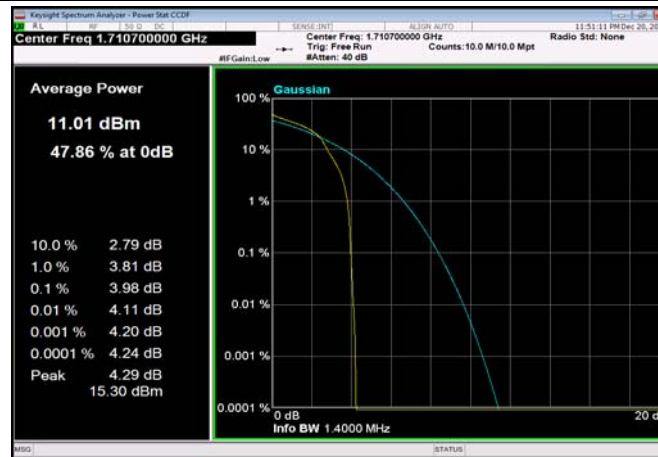
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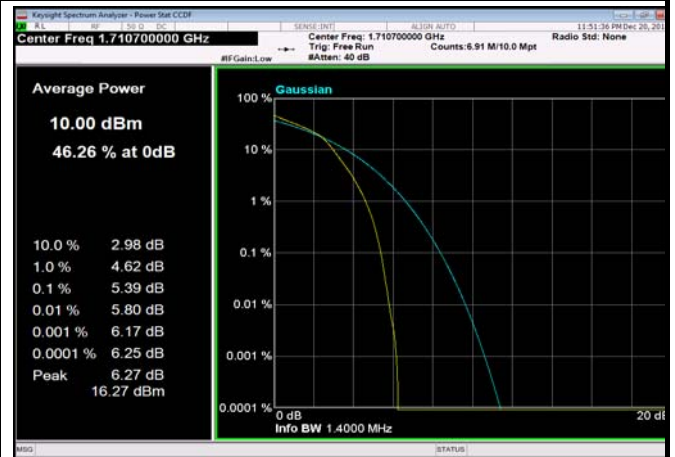
FDD02_20MHz_1900_fullRB_Q16



FDD04_1.4MHz_1710.7_OneRB_high_Q16



FDD04_1.4MHz_1710.7_fullRB_Q16



FDD04_3MHz_1711.5_OneRB_high_Q16



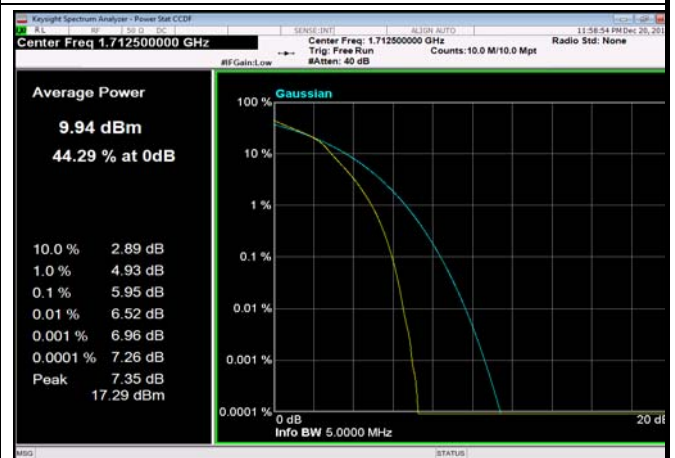
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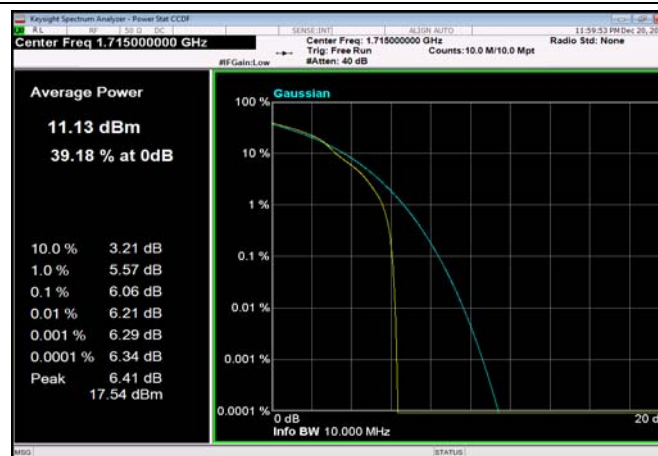


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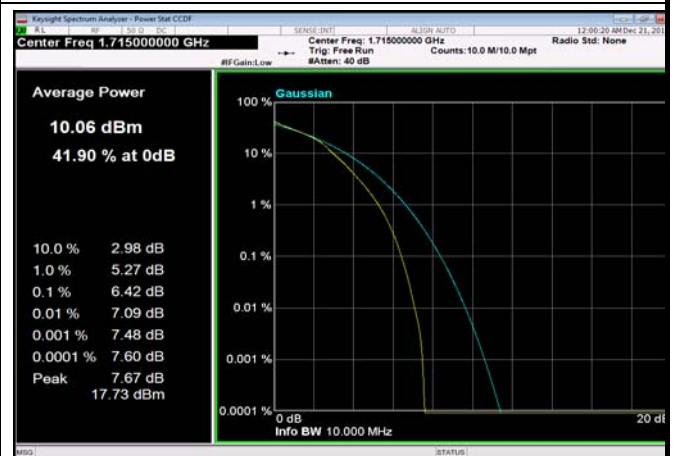




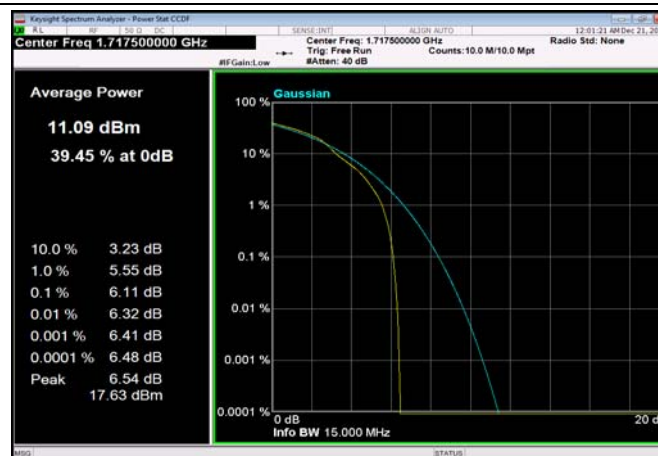
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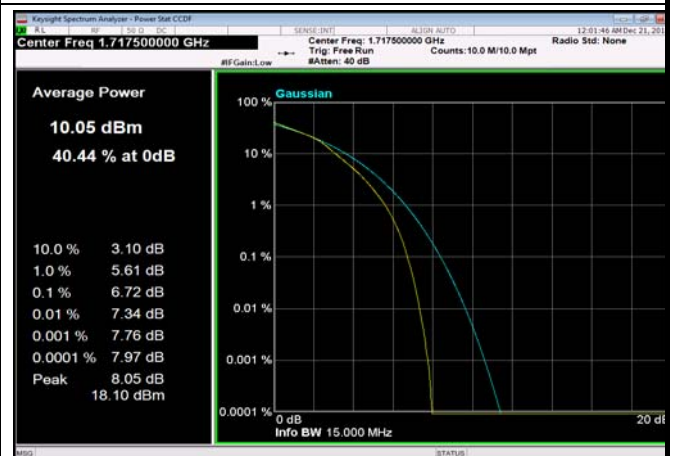
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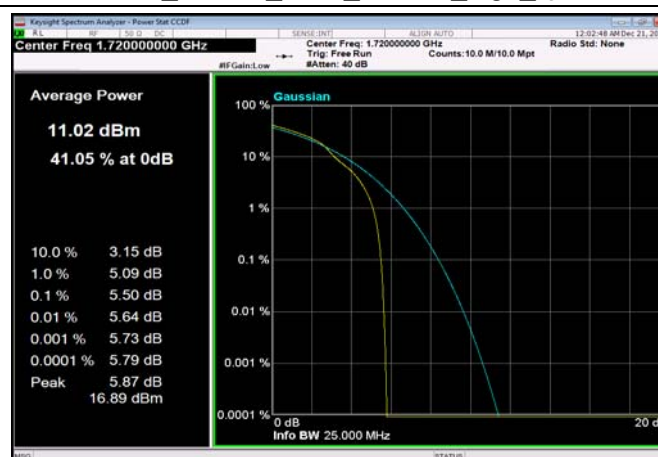
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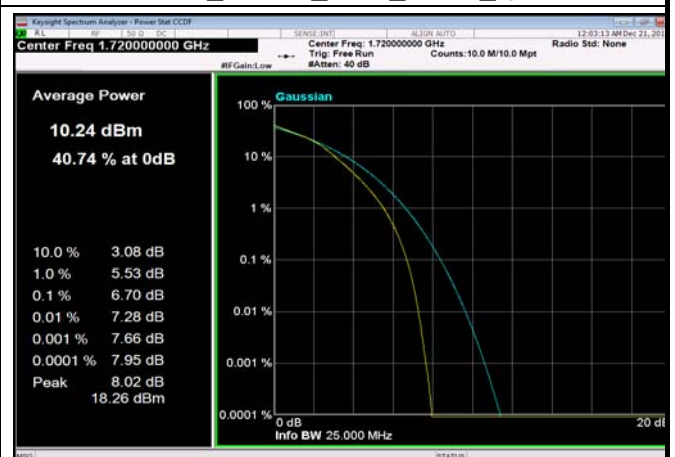
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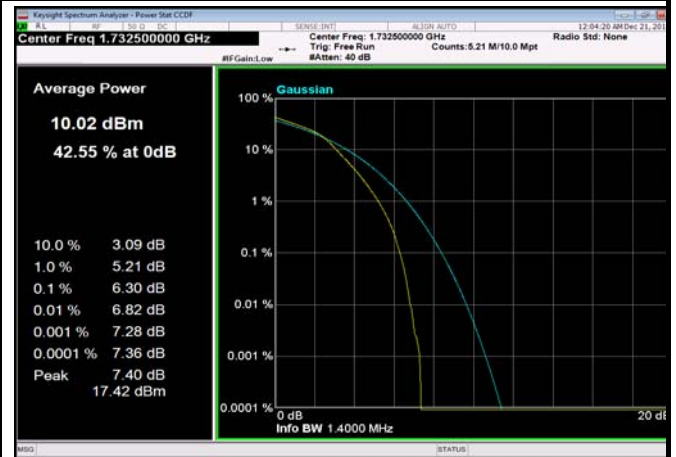




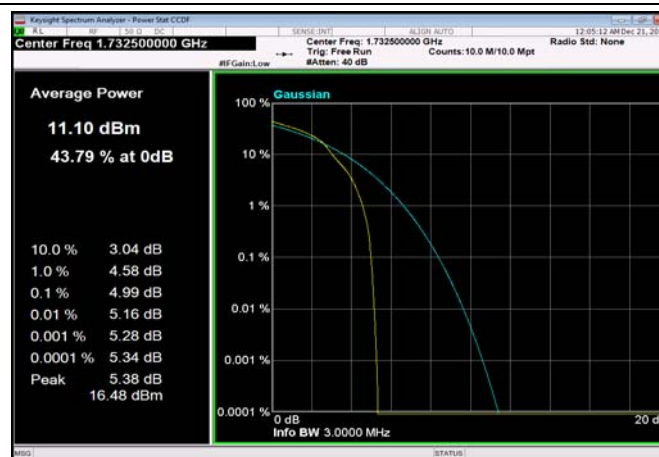
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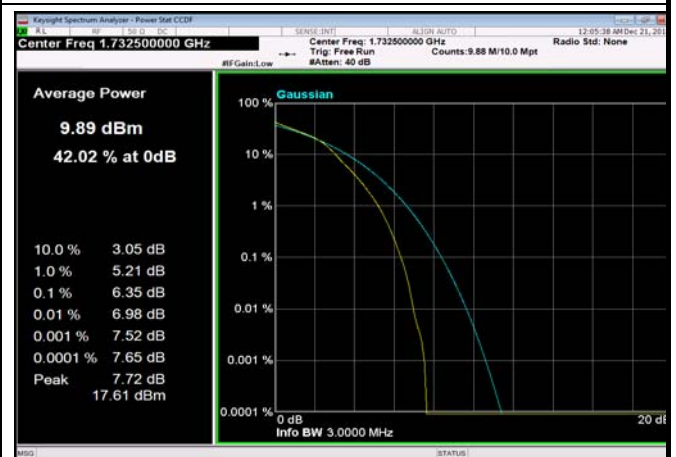
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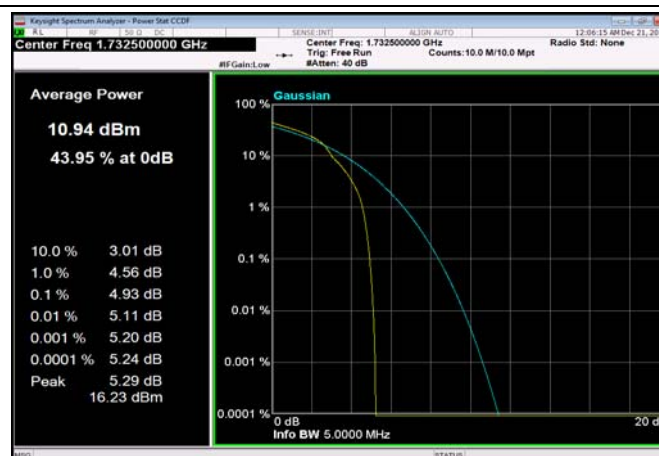
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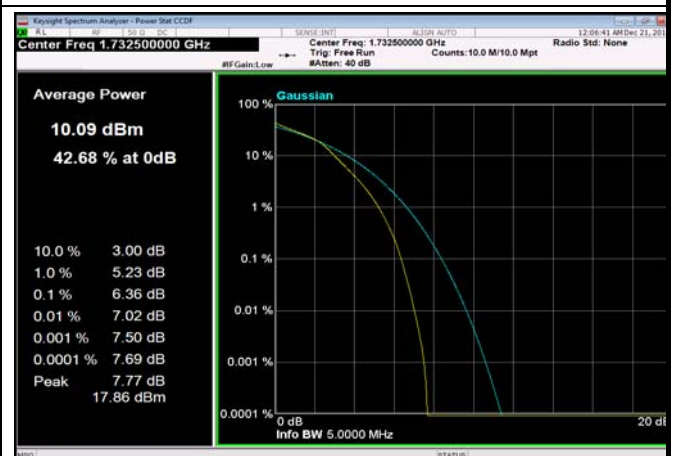
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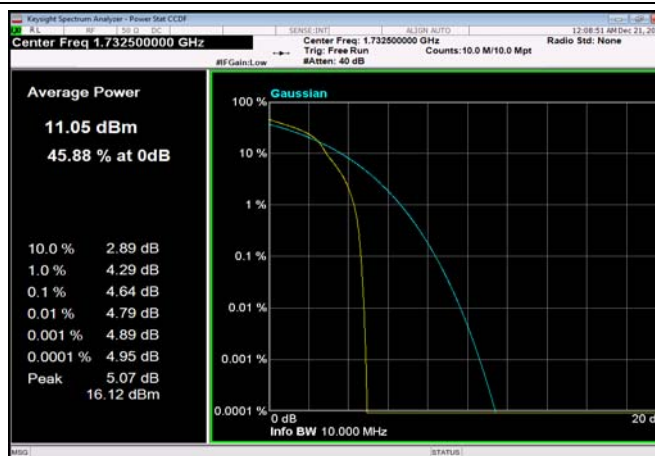


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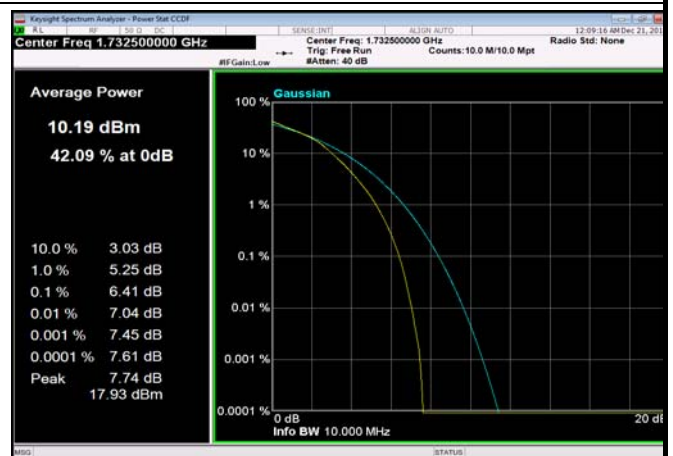




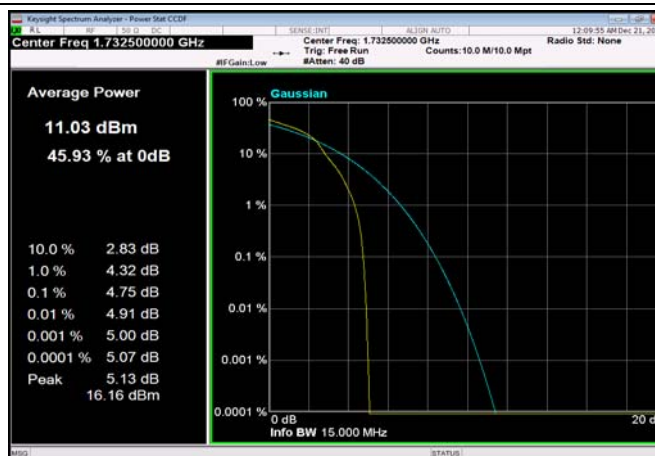
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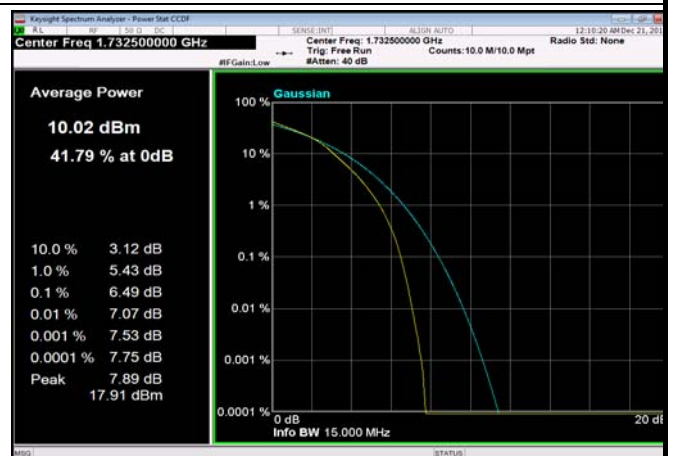
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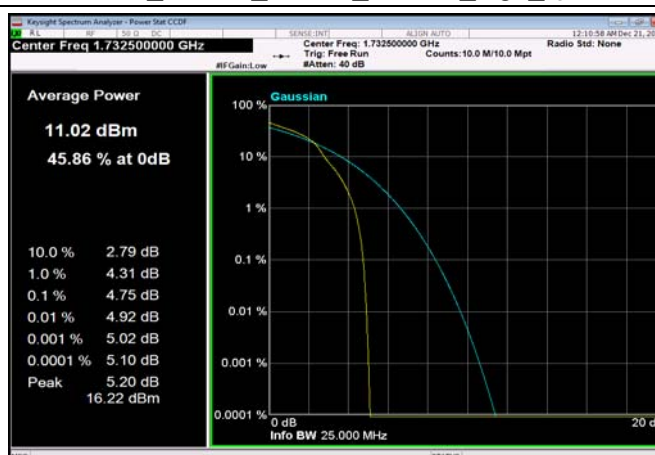
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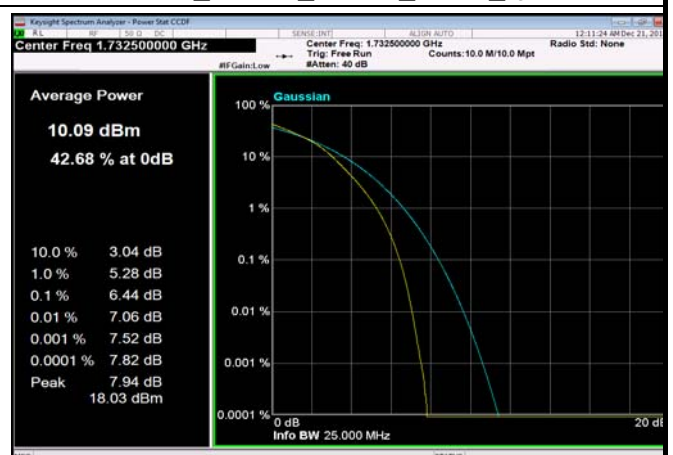
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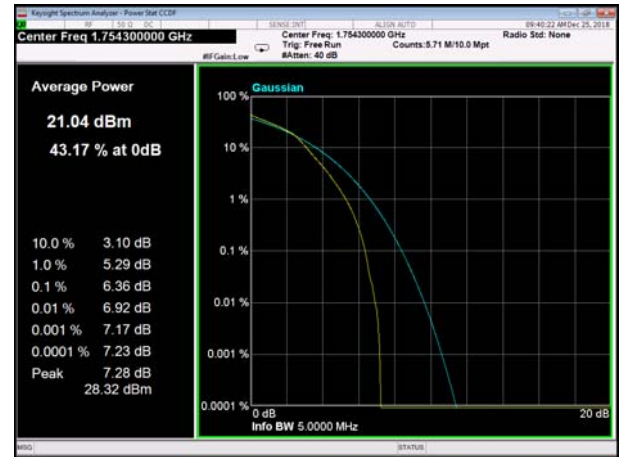
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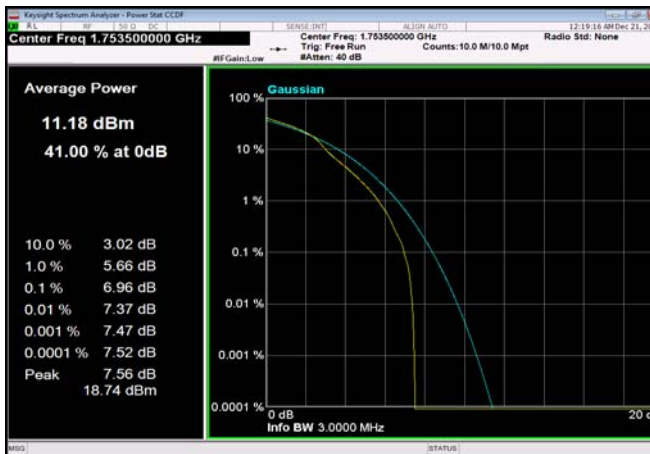
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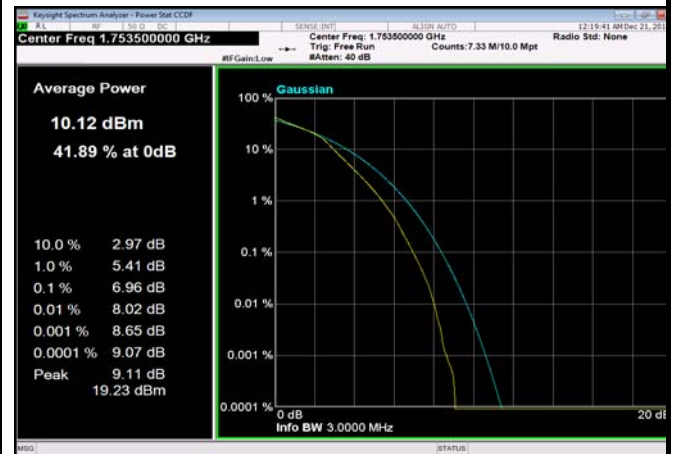
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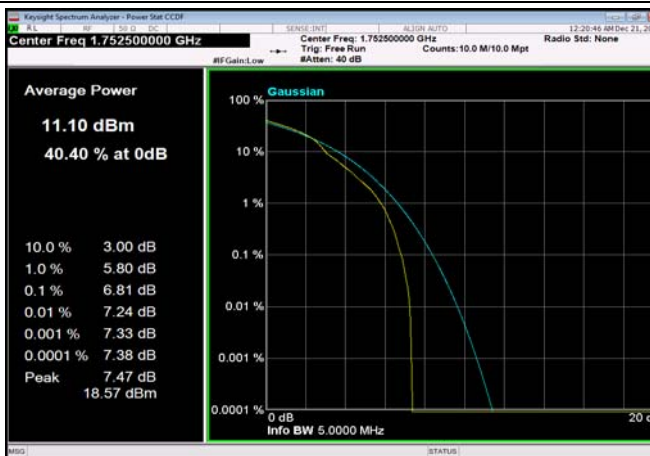
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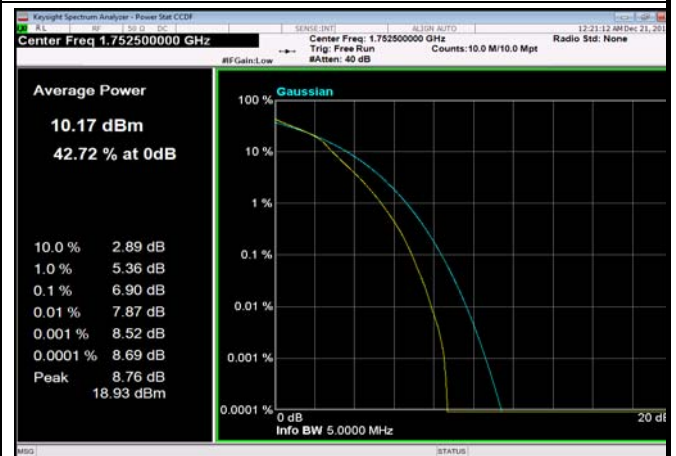
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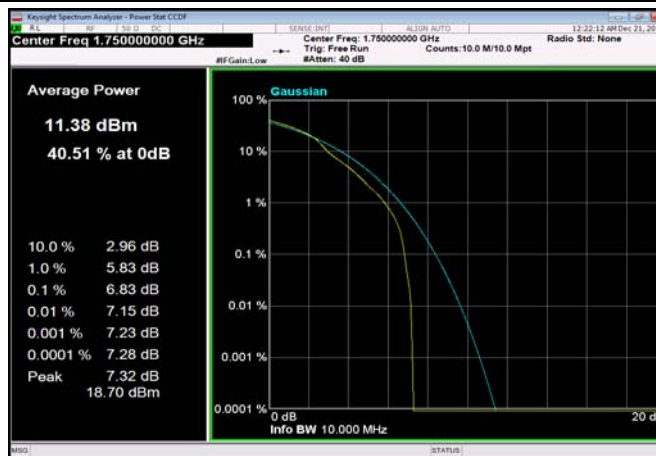


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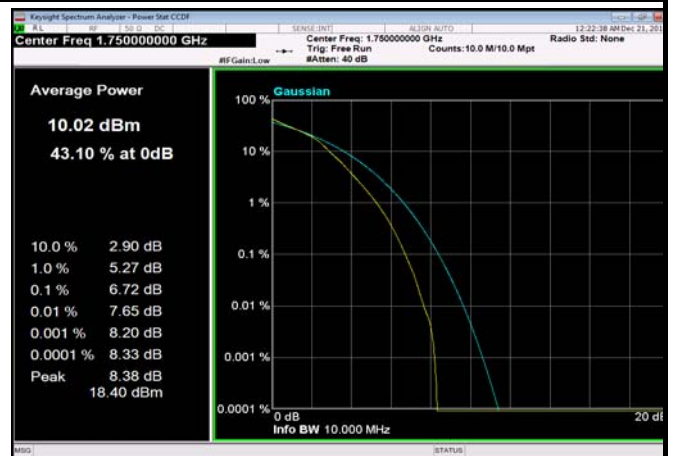




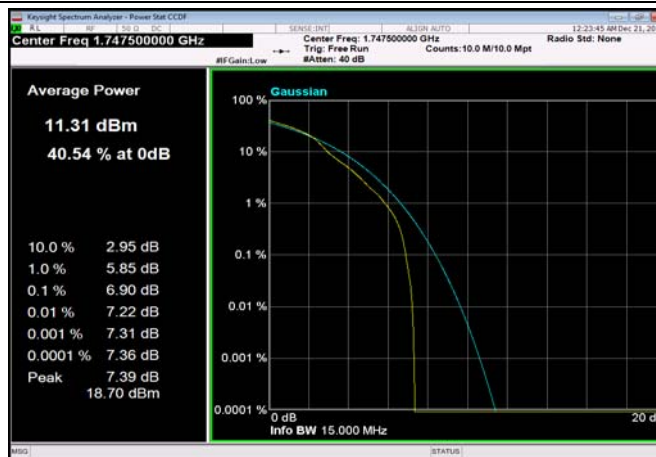
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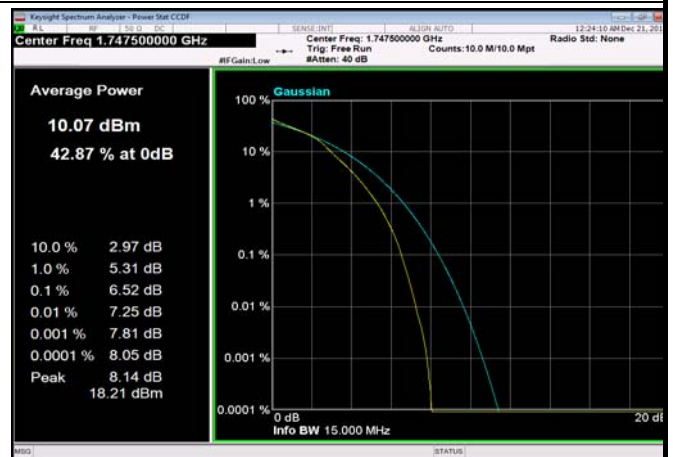
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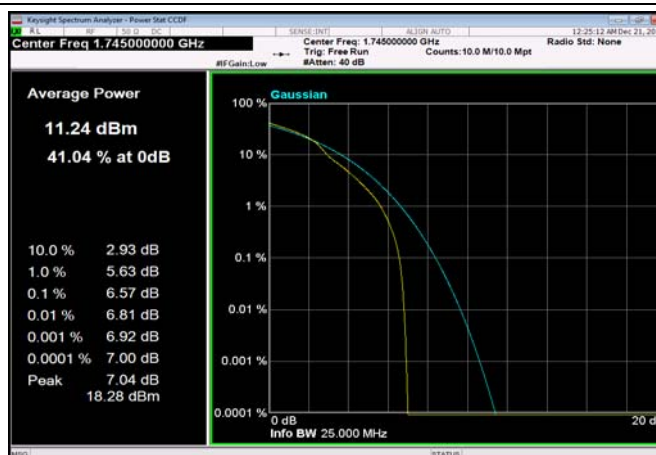
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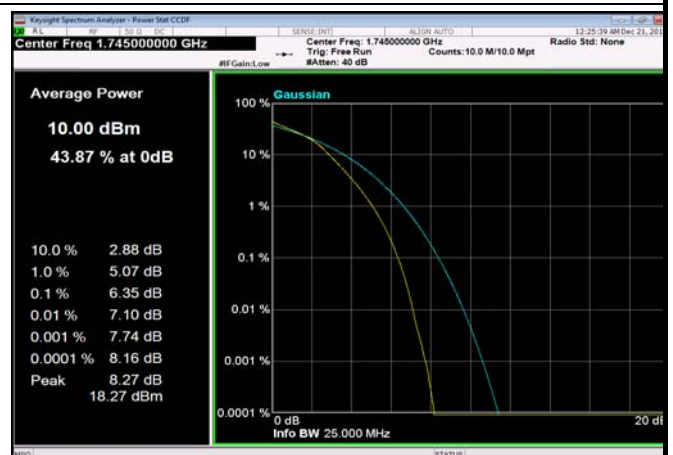
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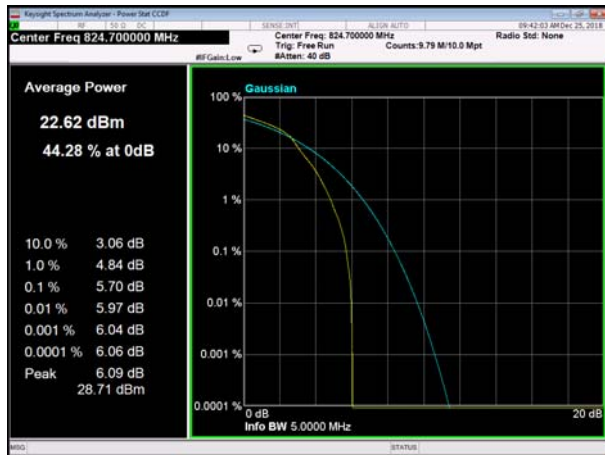


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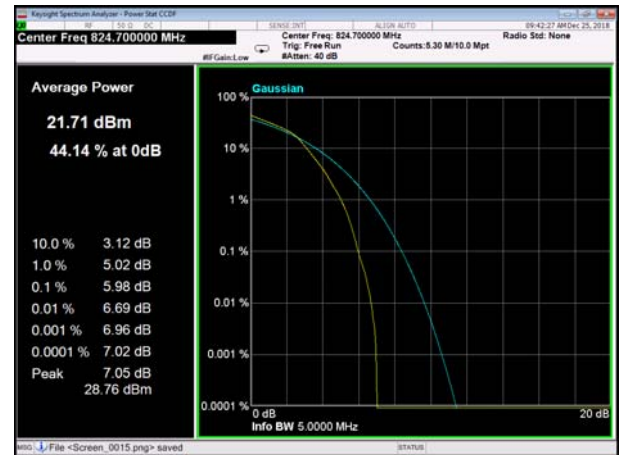




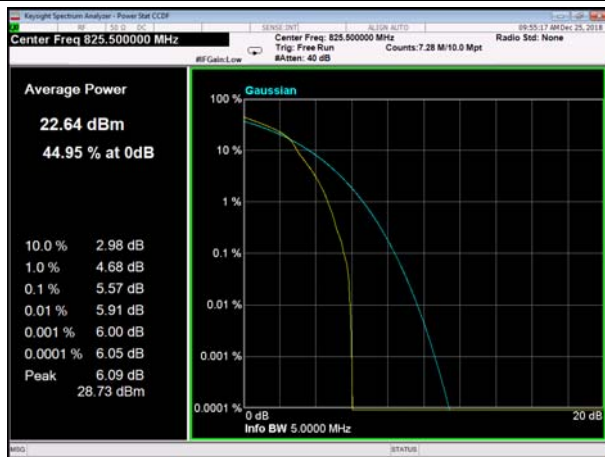
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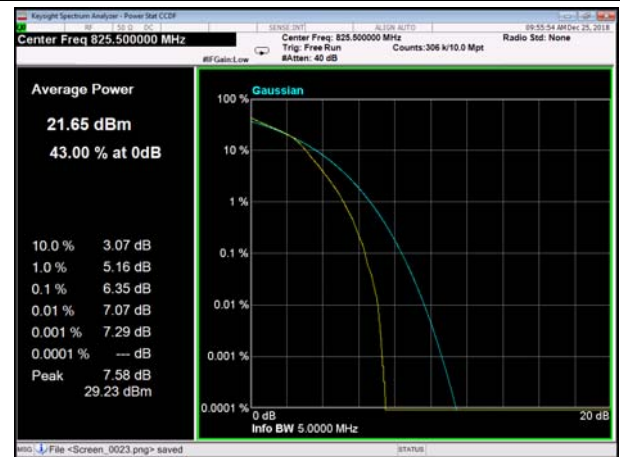
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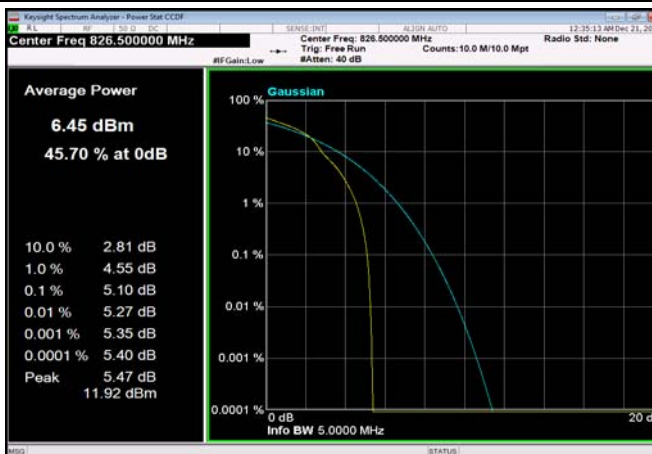
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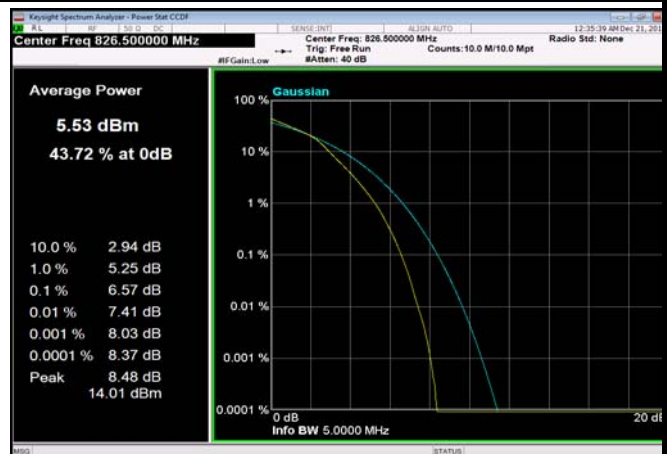
FDD05_3MHz_825.5_fullRB_Q16



FDD05_5MHz_826.5_OneRB_high_Q16

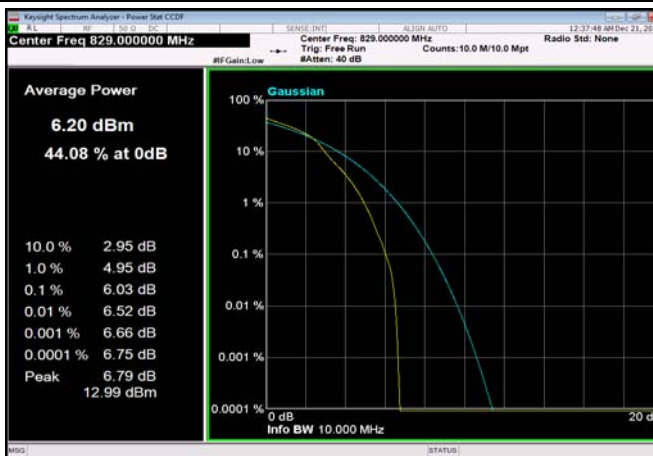


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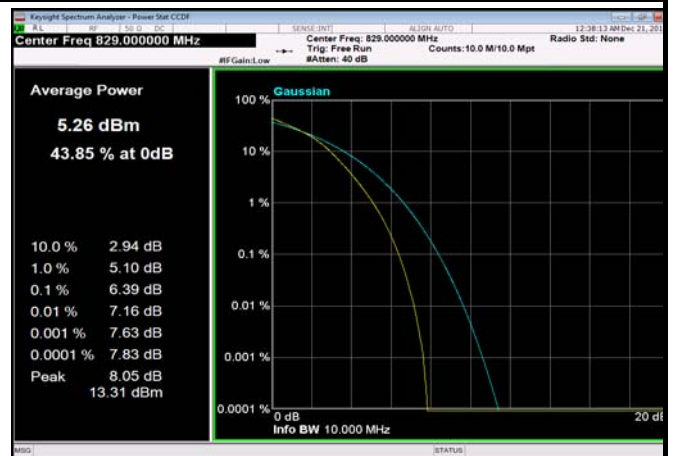




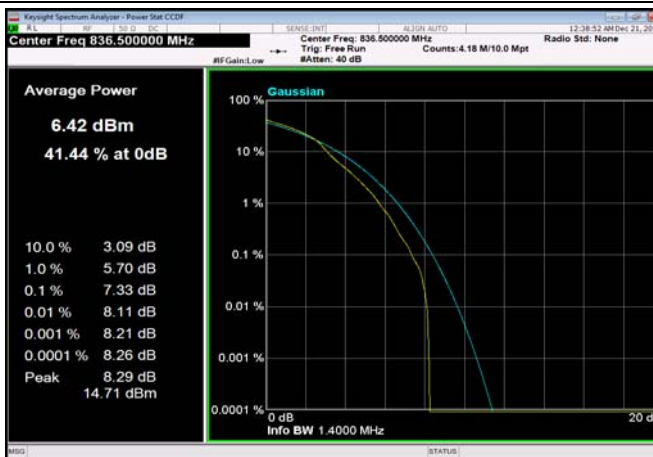
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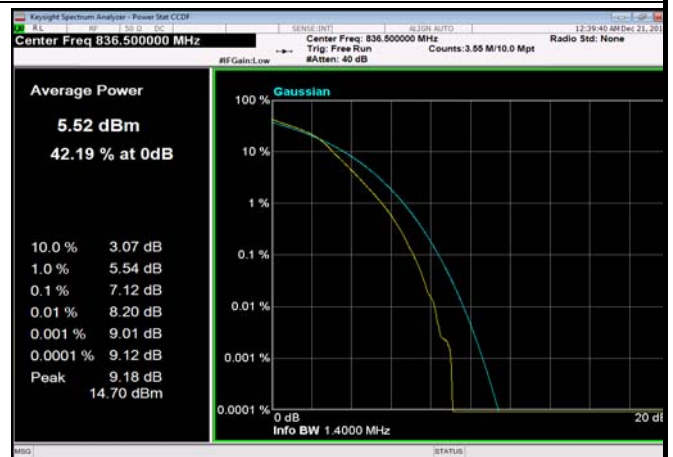
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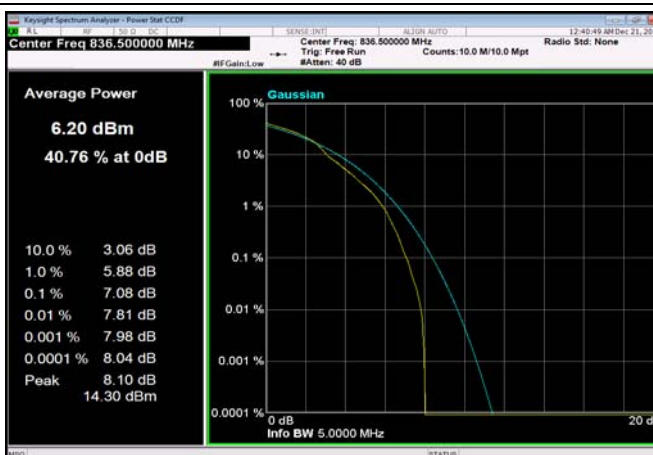
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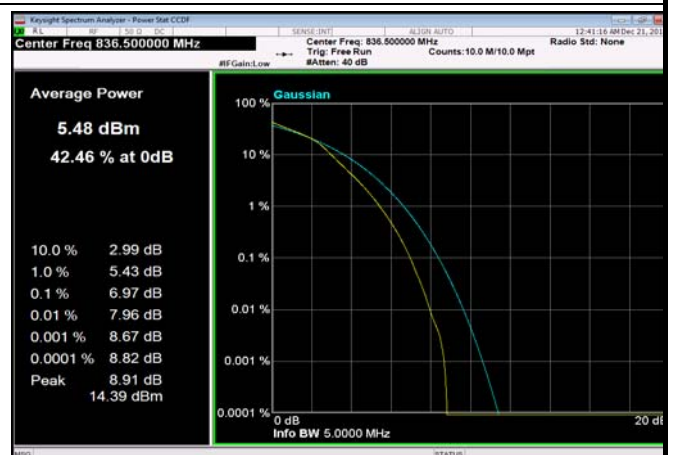
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FDD05_5MHz_836.5_OneRB_high_Q16

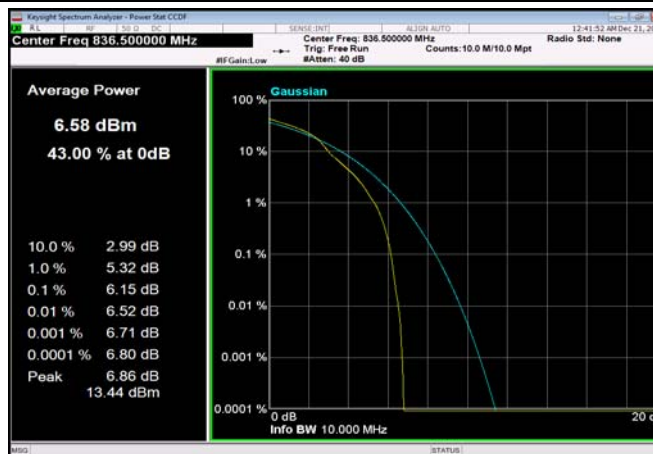


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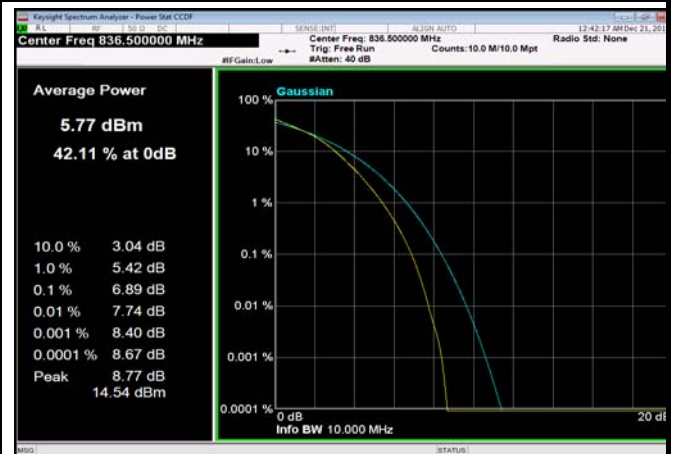




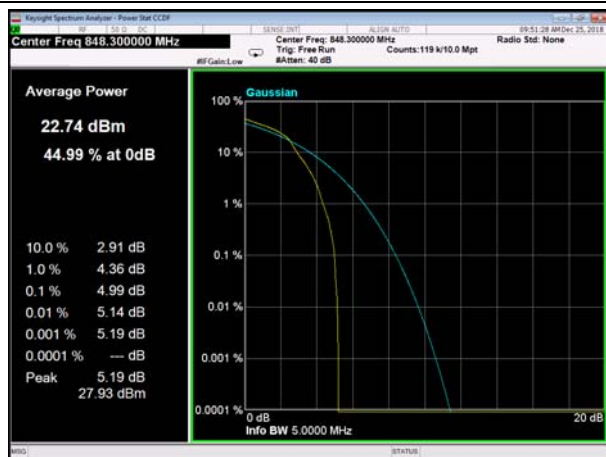
FDD05_10MHz_836.5_OneRB_high_Q16



FDD05_10MHz_836.5_fullRB_Q16



FDD05_1.4MHz_848.3_OneRB_high_Q16



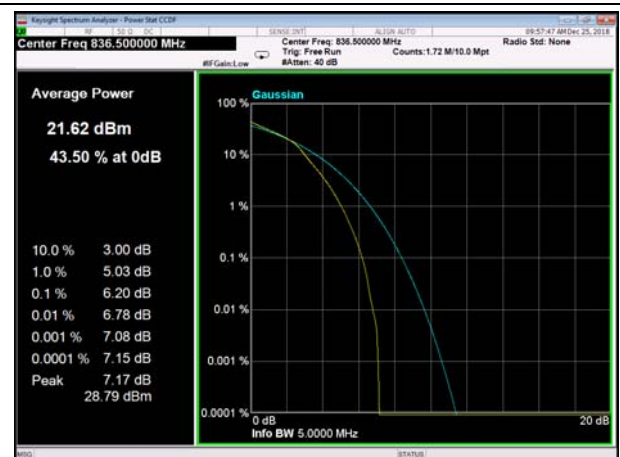
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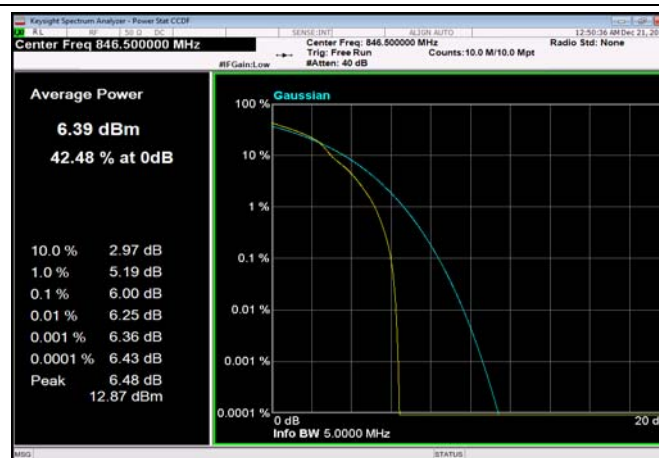


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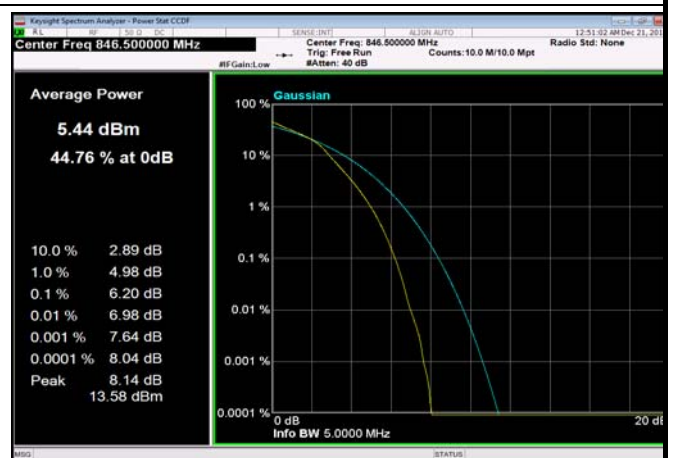




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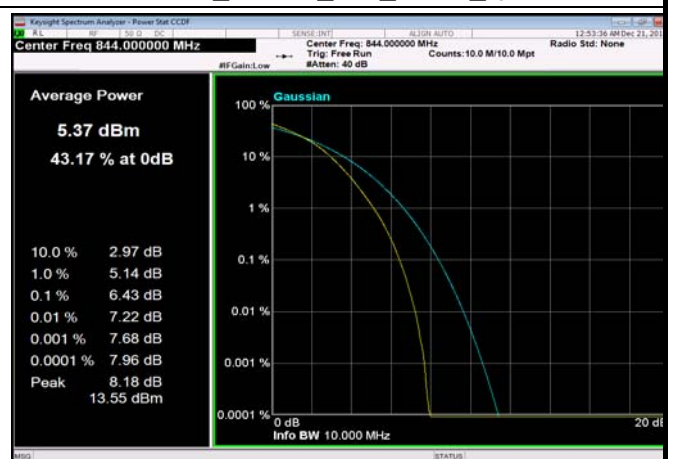
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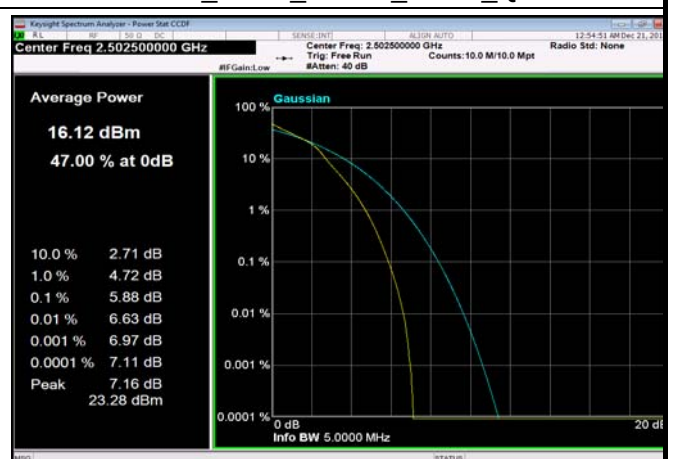
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FDD07_5MHz_2502.5_OneRB_high_Q16

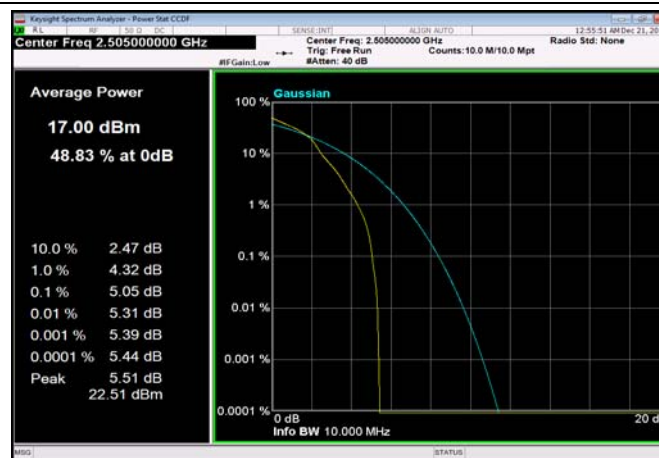


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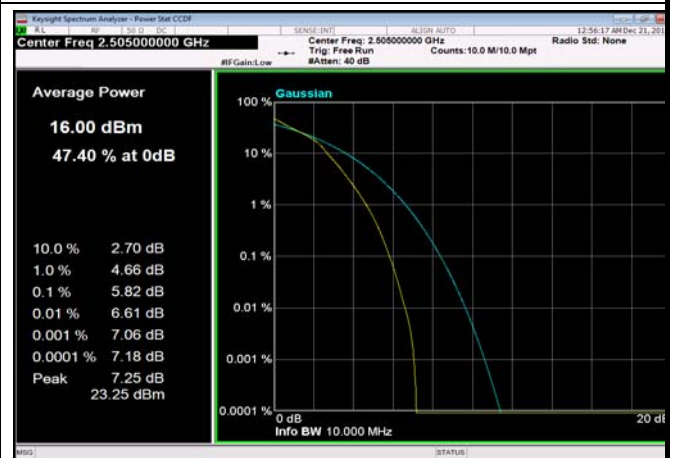




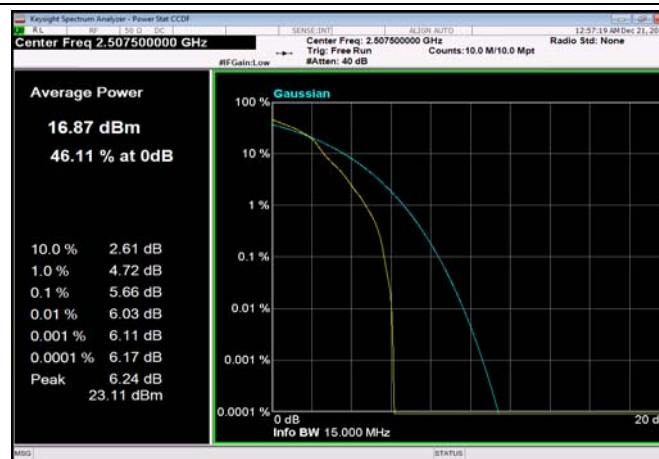
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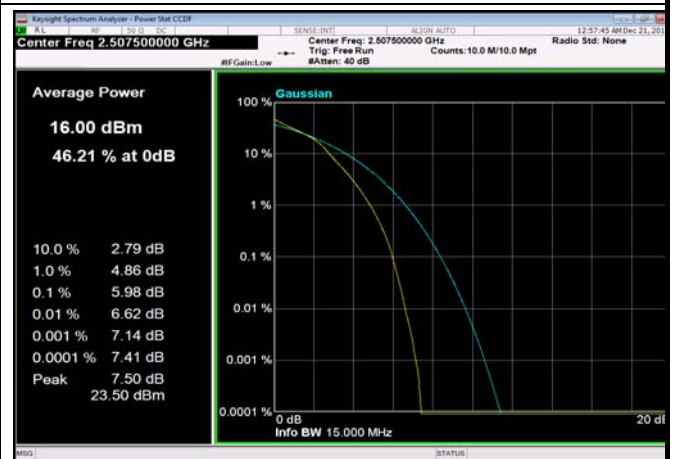
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FDD07_15MHz_2507.5_OneRB_high_Q16



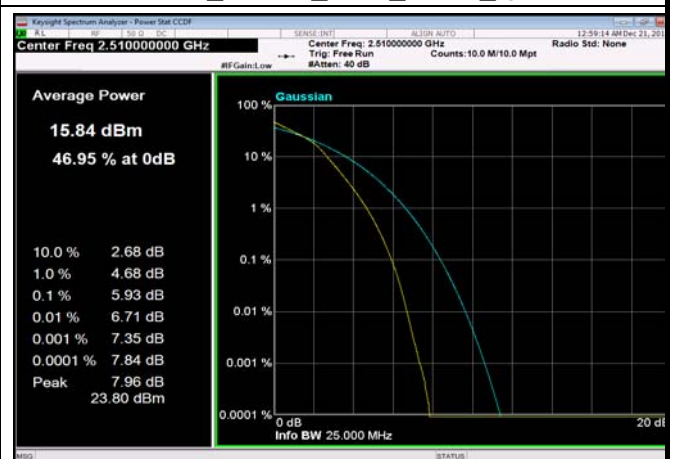
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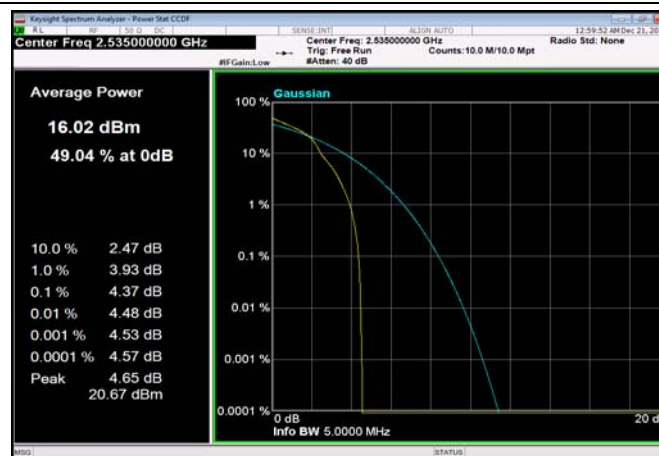


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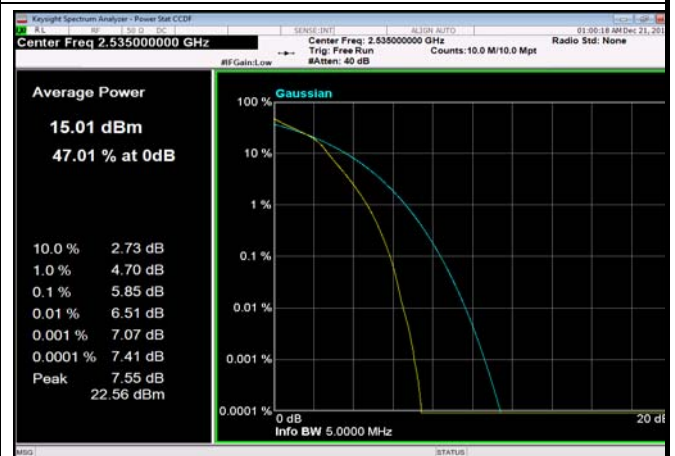




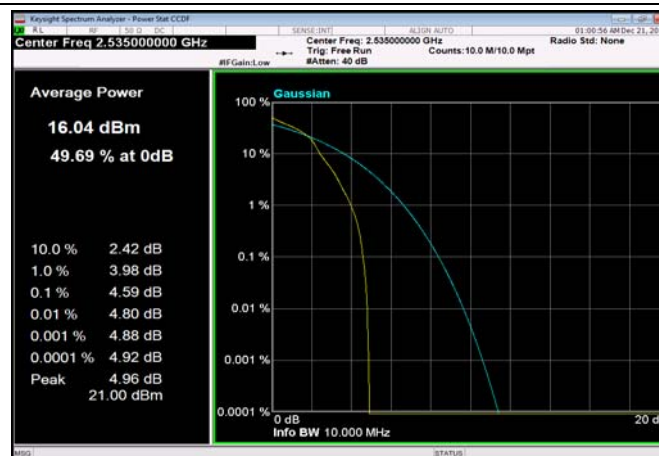
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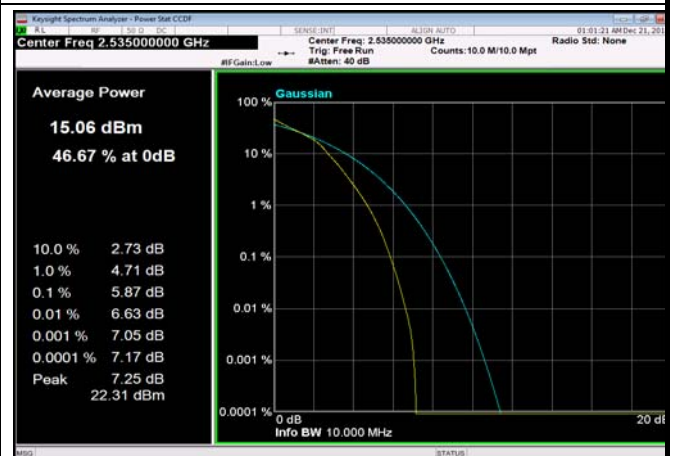
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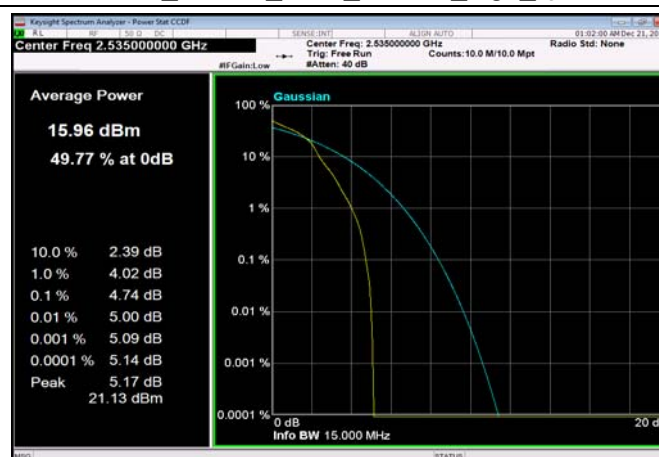
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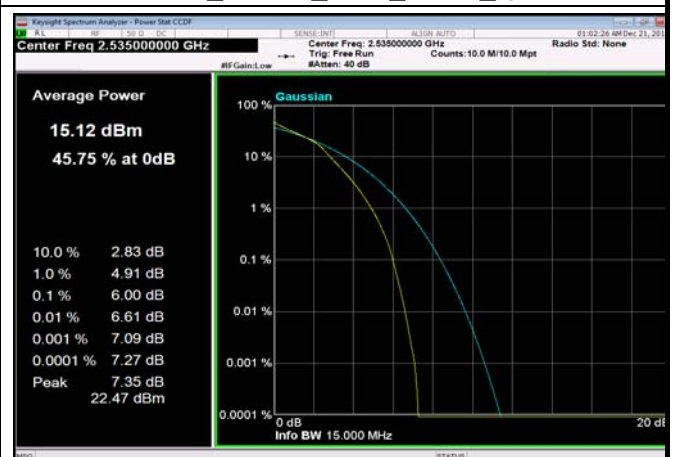
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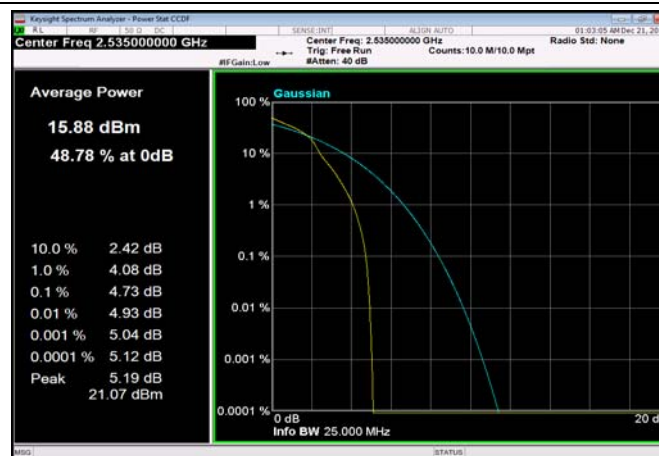


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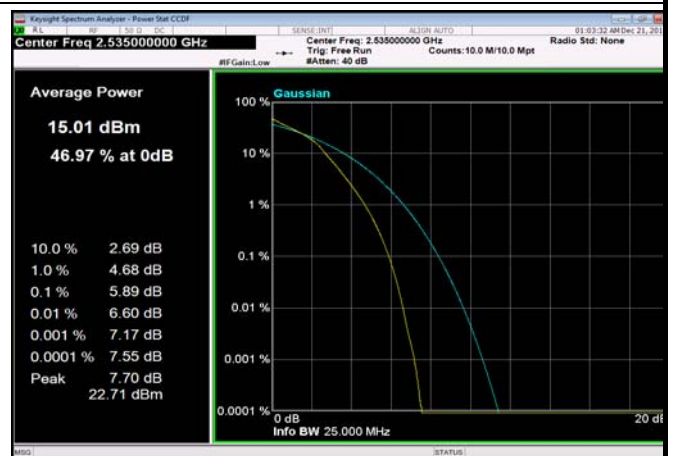




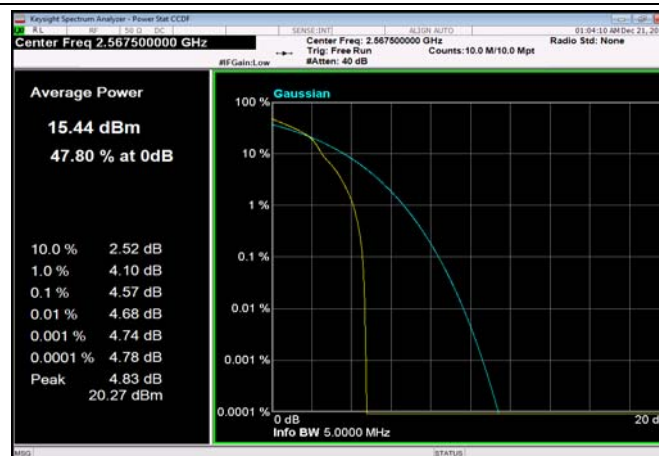
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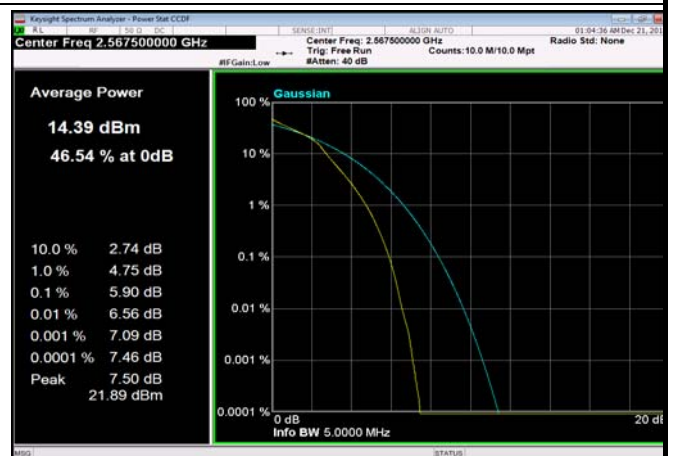
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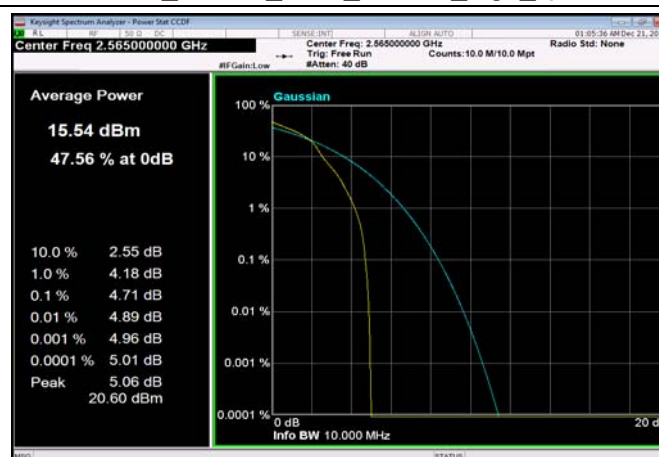
FDD07_5MHz_2567.5_OneRB_high_Q16



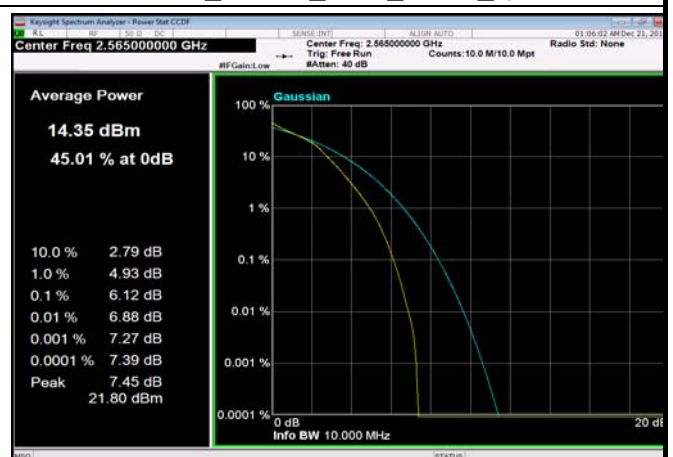
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FDD07_10MHz_2565_OneRB_high_Q16

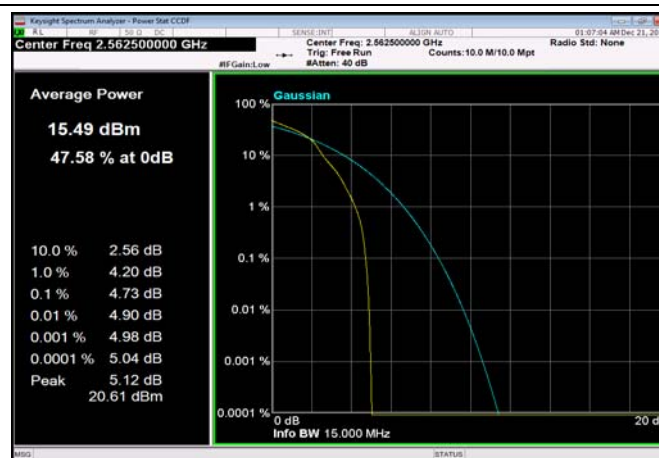


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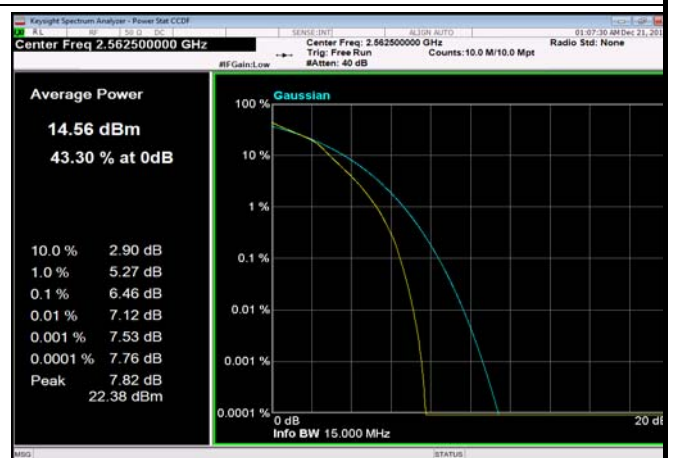




FDD07_15MHz_2562.5_OneRB_high_Q16



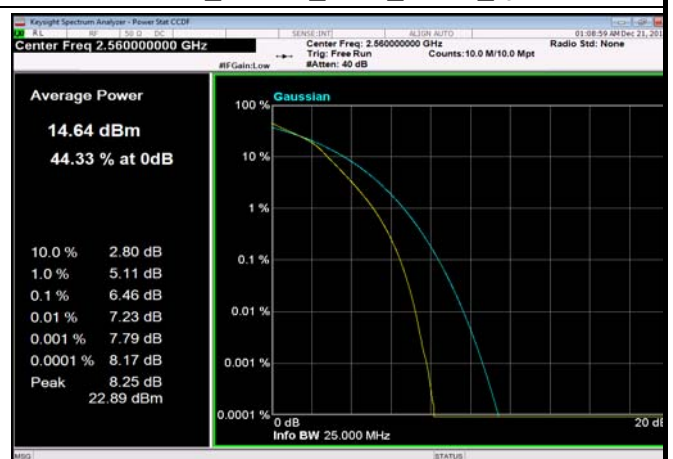
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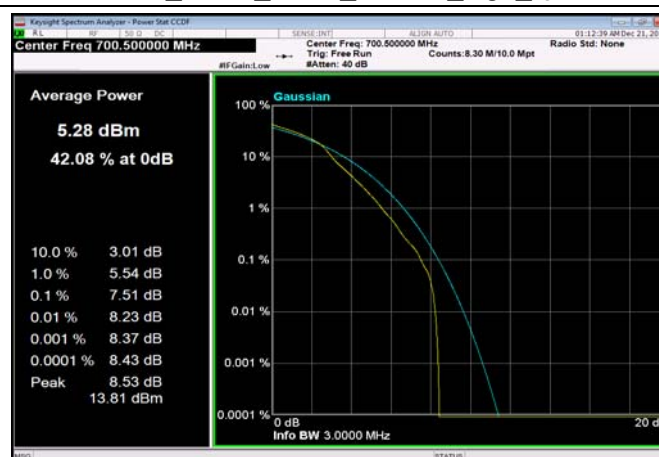
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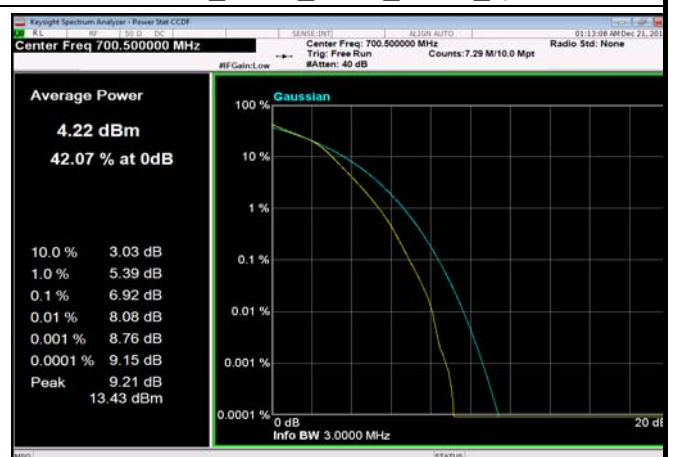
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FDD12_3MHz_700.5_OneRB_high_Q16

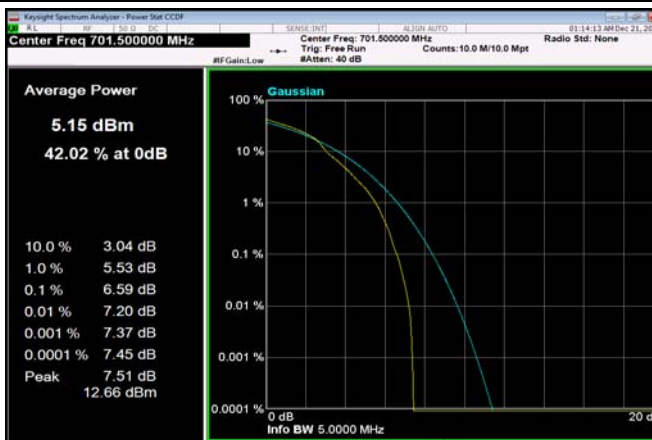


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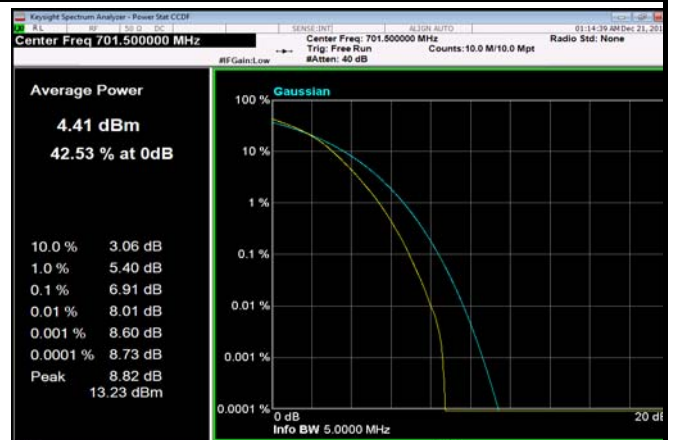




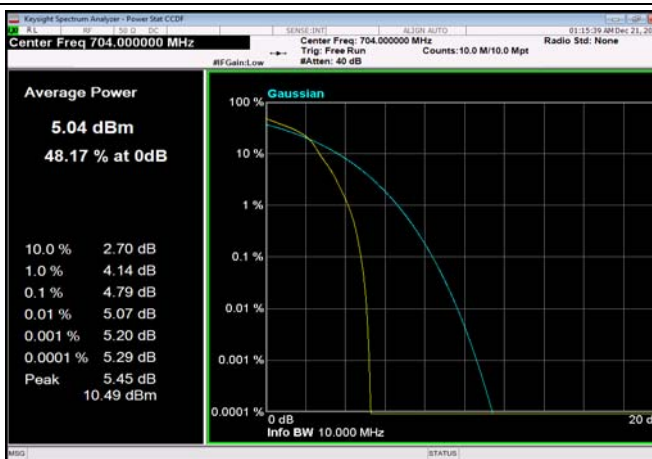
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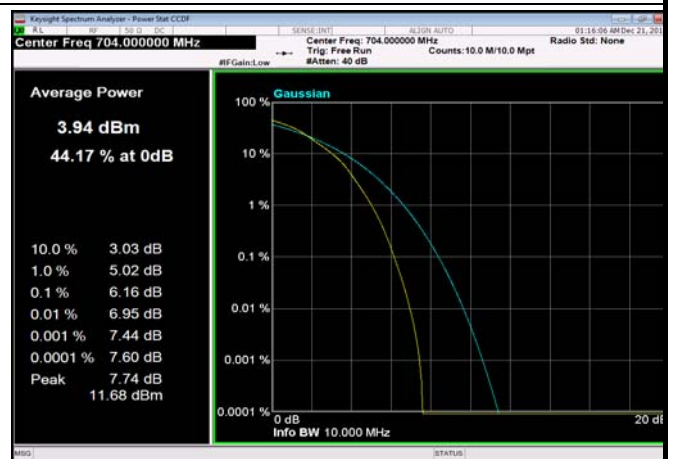
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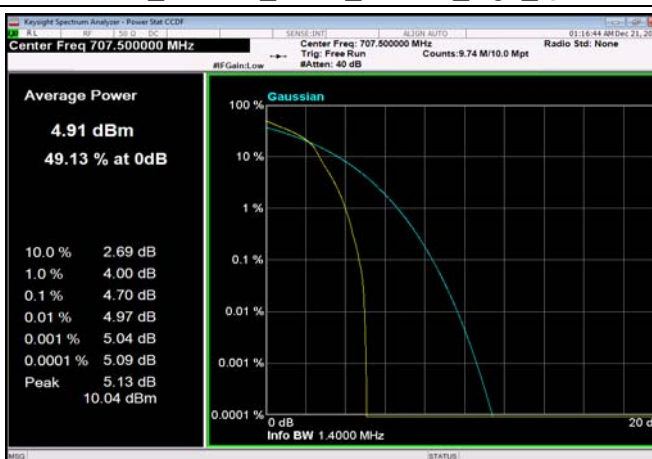
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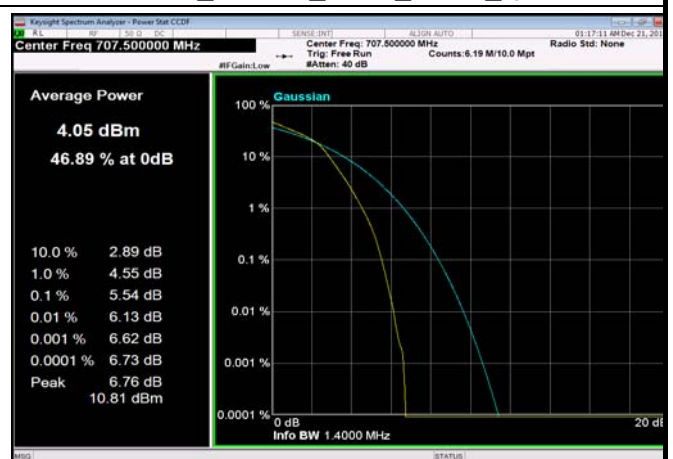
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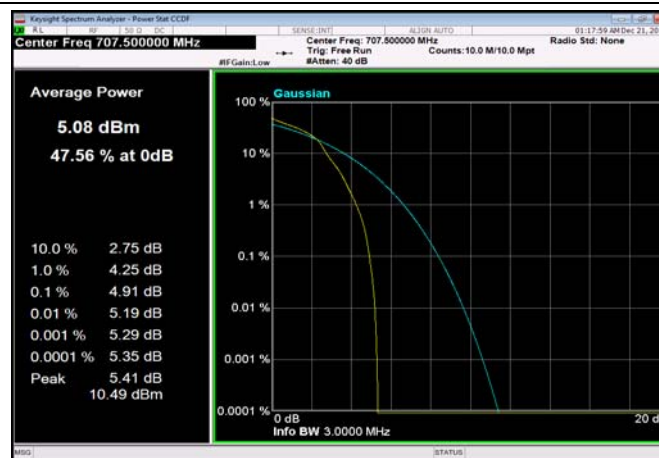


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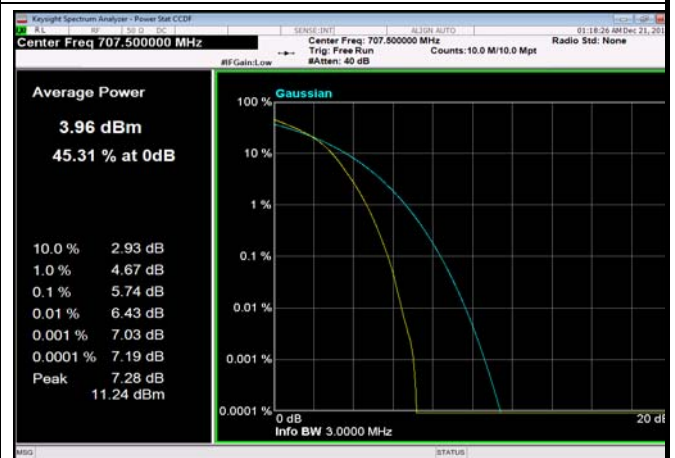




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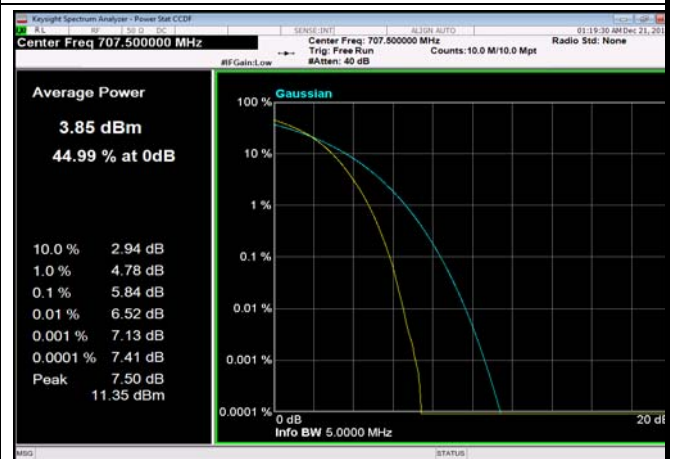
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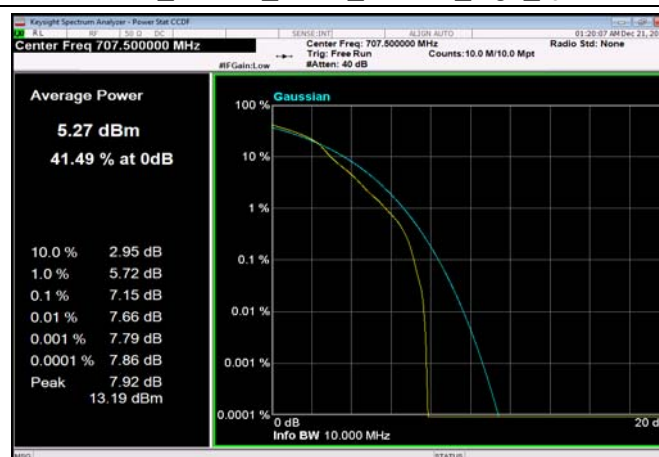
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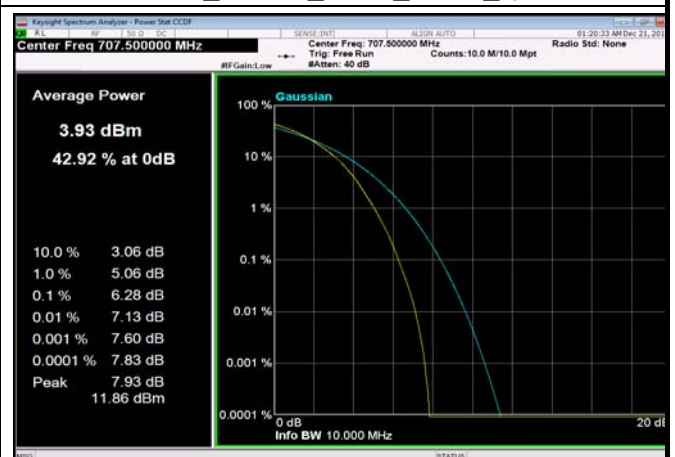
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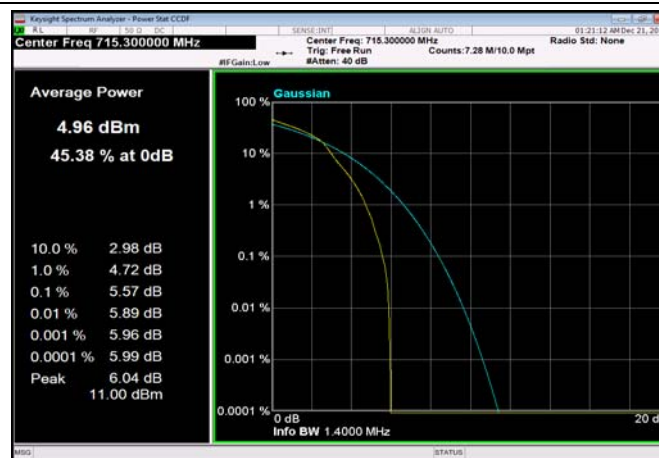


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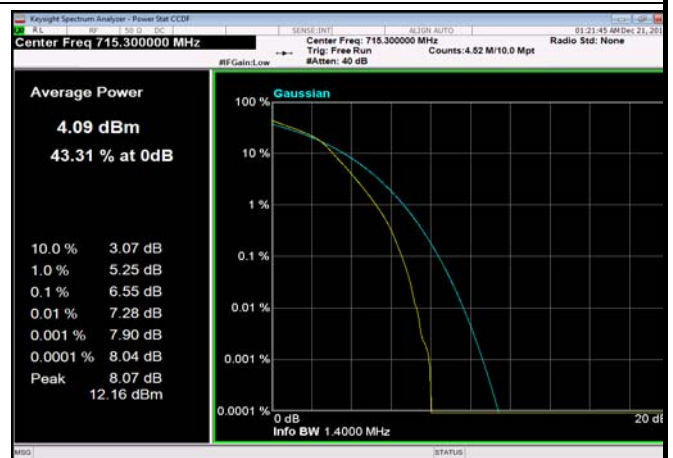




FDD12_1.4MHz_715.3_OneRB_high_Q16



FDD12_1.4MHz_715.3_fullRB_Q16



FDD12_3MHz_714.5_OneRB_high_Q16



FDD12_3MHz_714.5_fullRB_Q16



FDD12_5MHz_713.5_OneRB_high_Q16

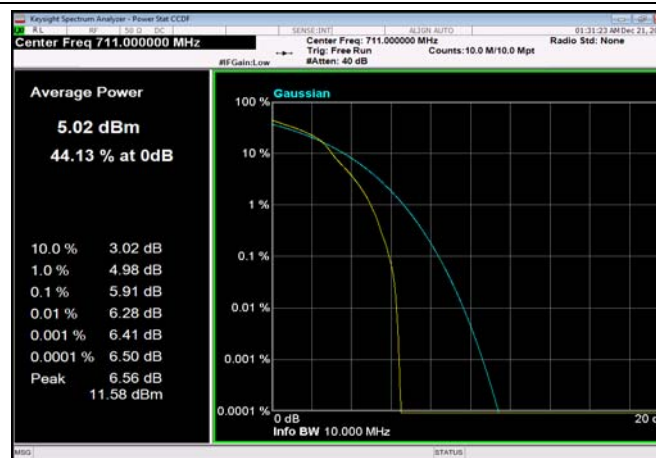


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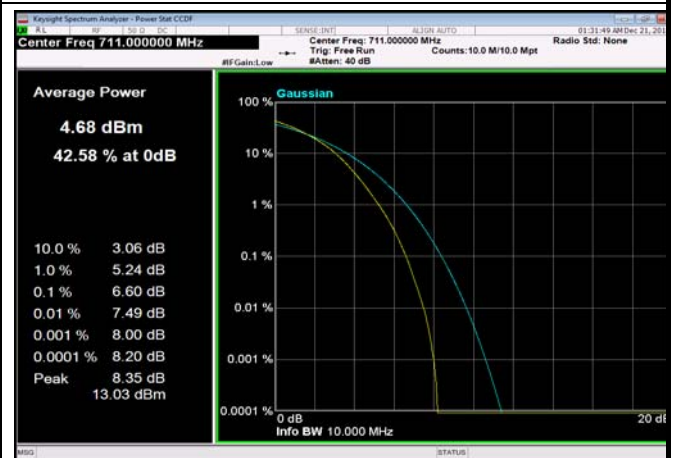




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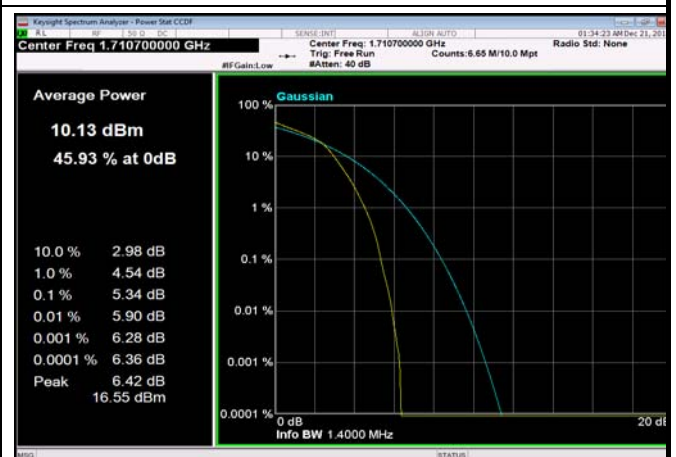
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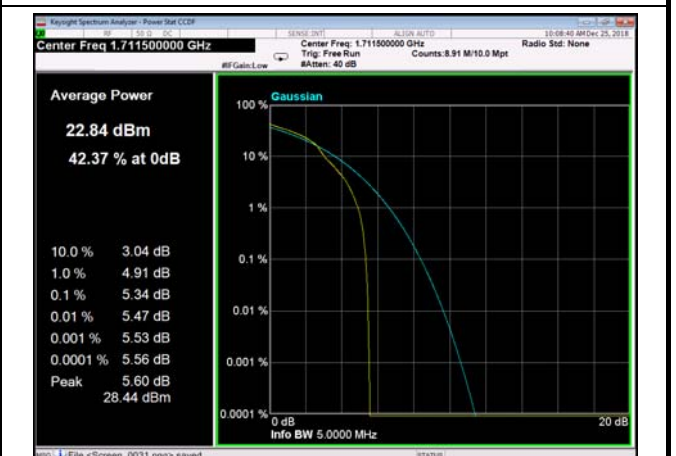
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FDD66_3MHz_1711.5_OneRB_high_Q16

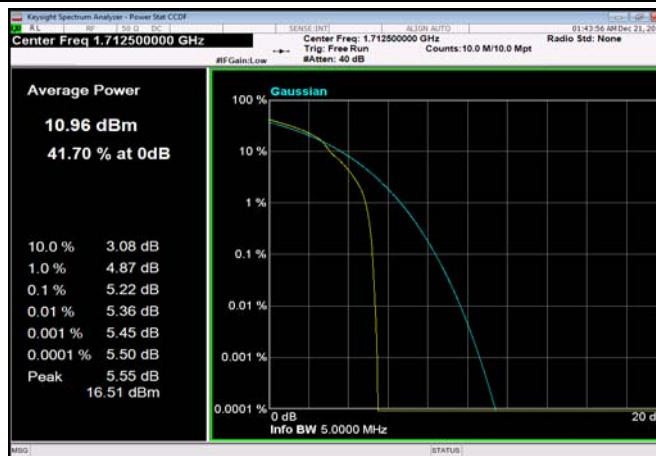


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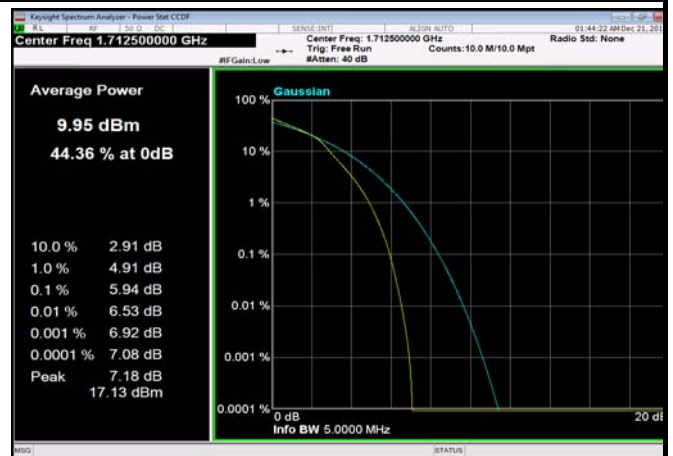




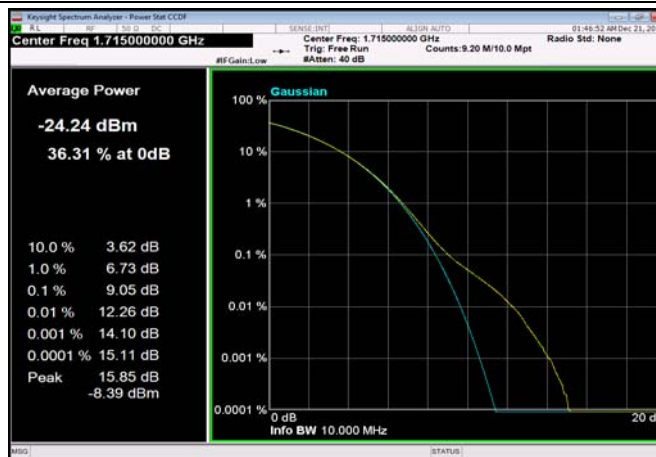
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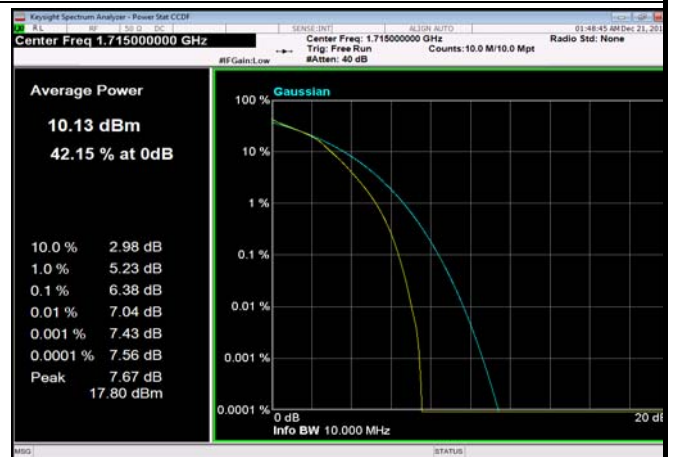
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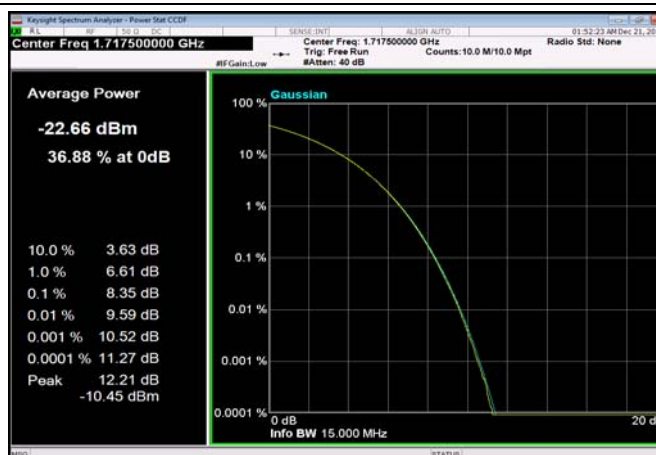
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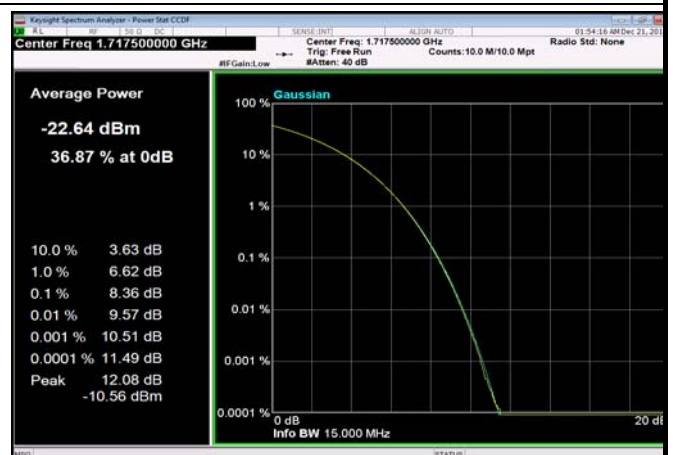
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FDD66_15MHz_1717.5_OneRB_high_Q16

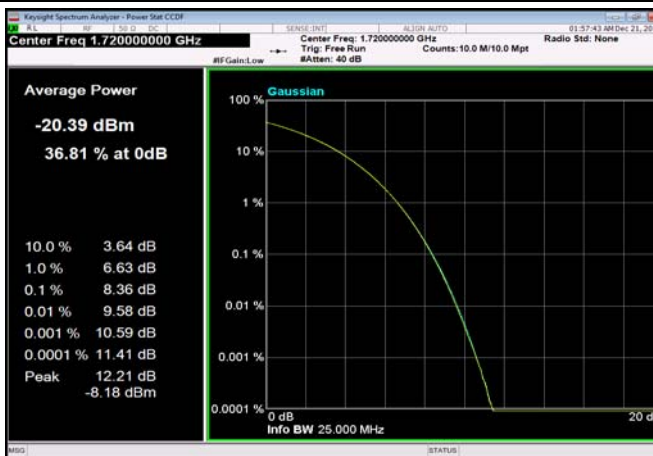


FDD66_15MHz_1717.5_fullRB_Q16

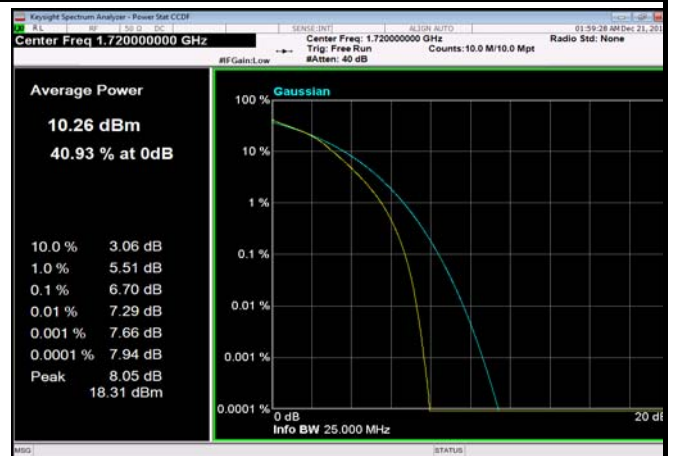




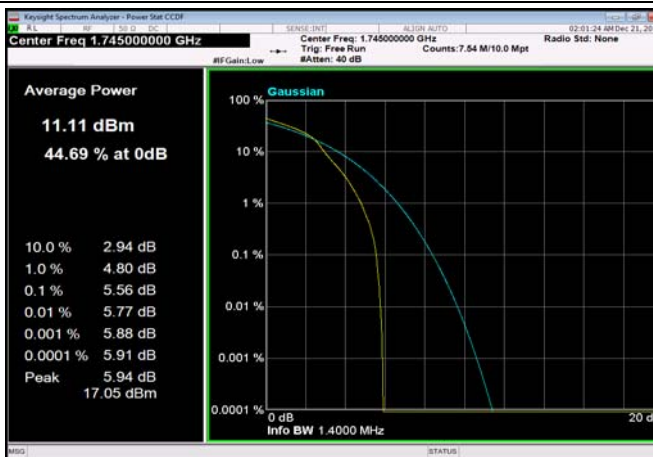
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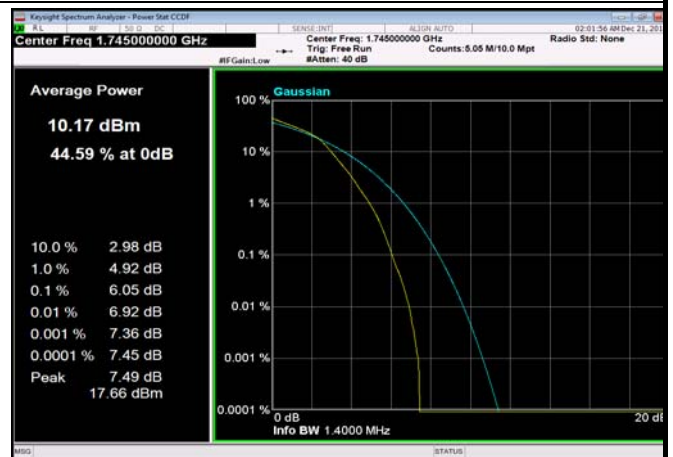
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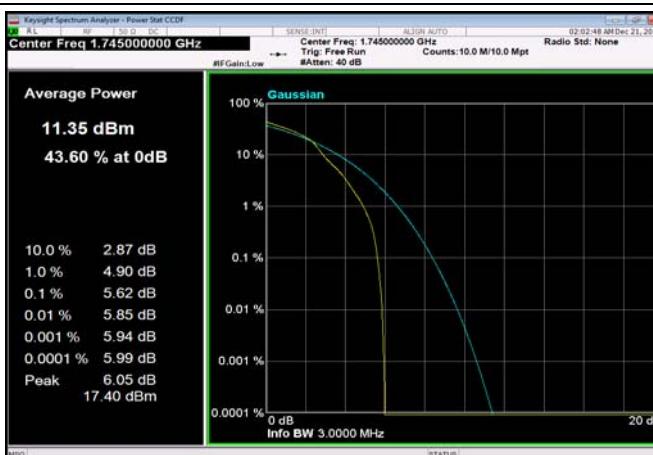
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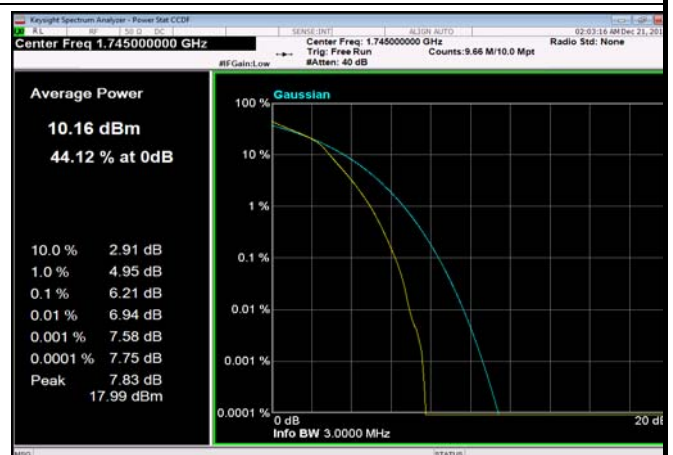
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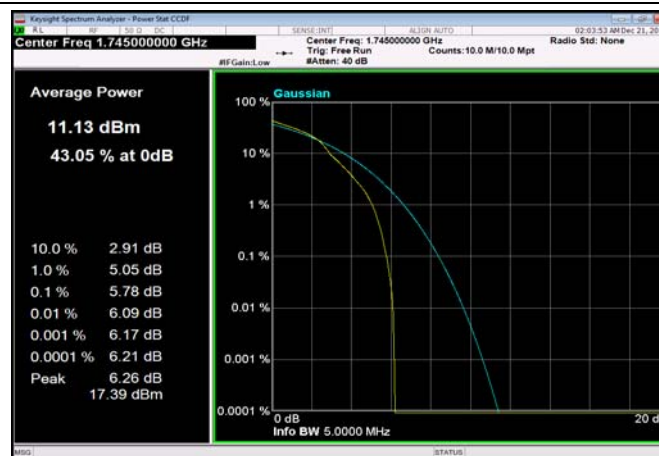


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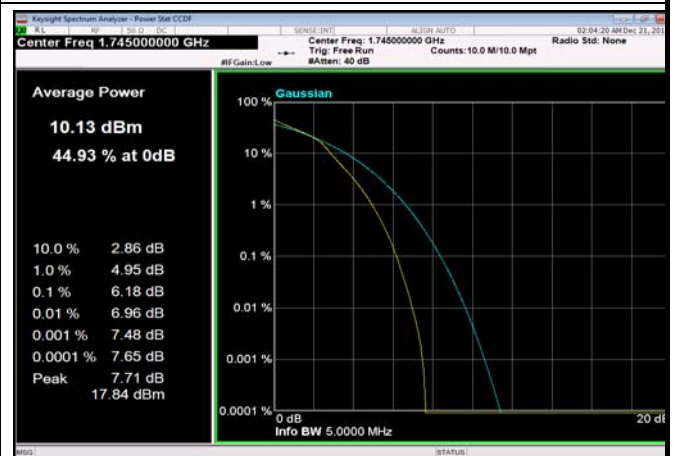




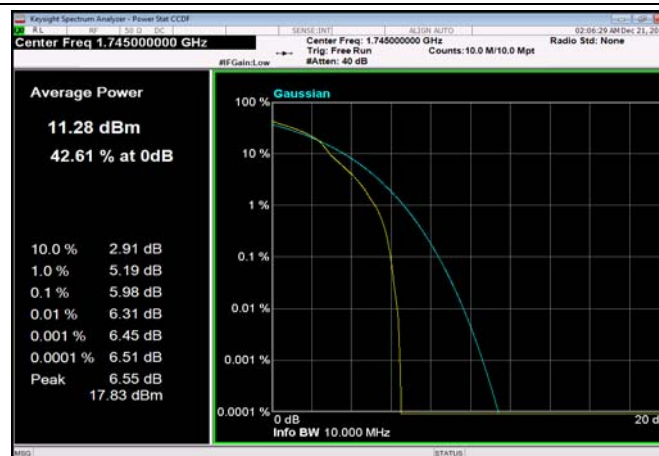
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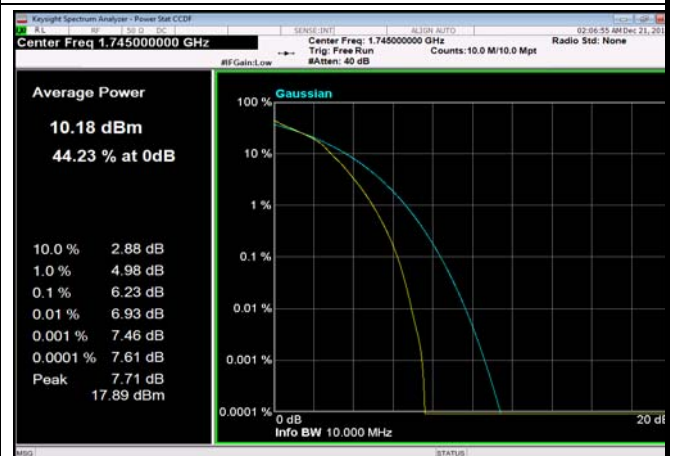
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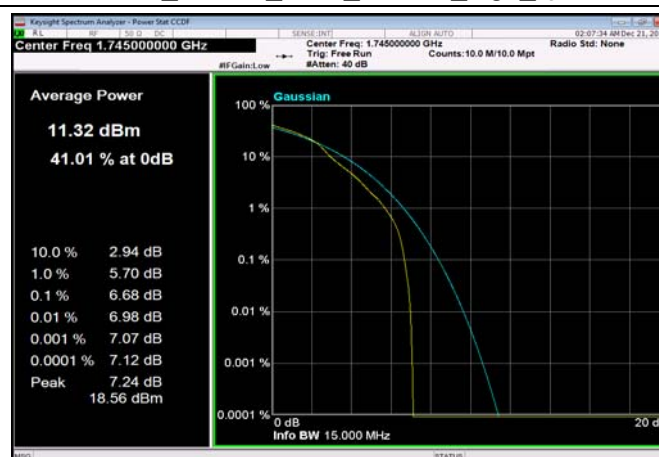
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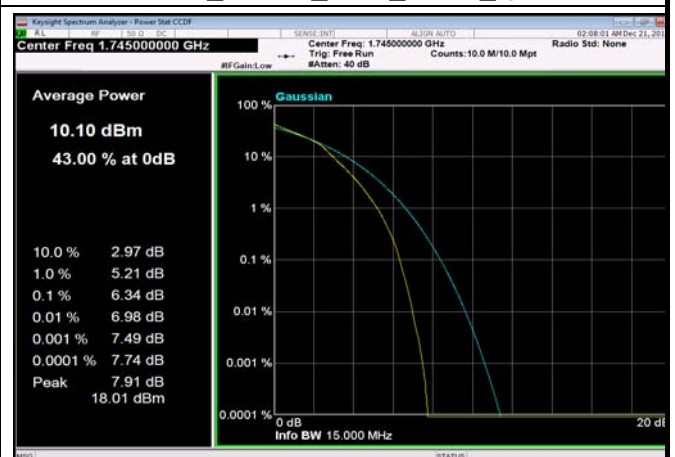
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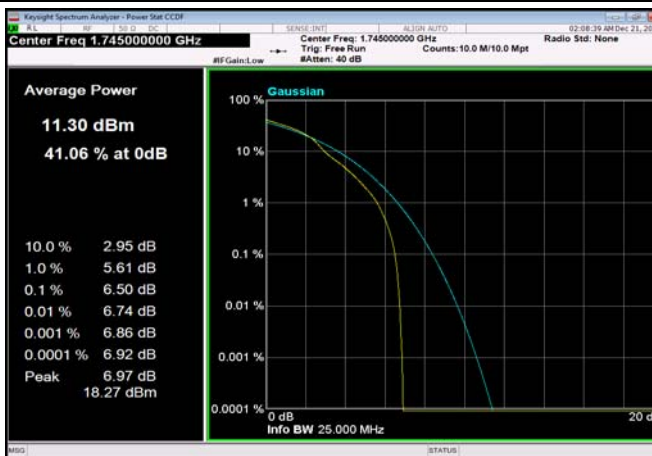


FDD66_15MHz_1745_fullRB_Q16

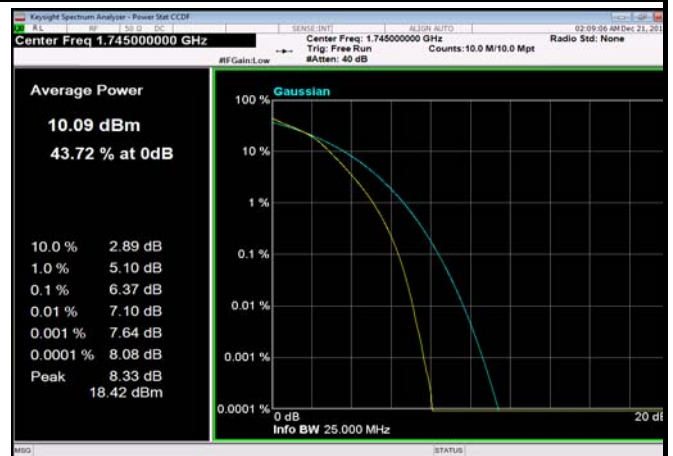




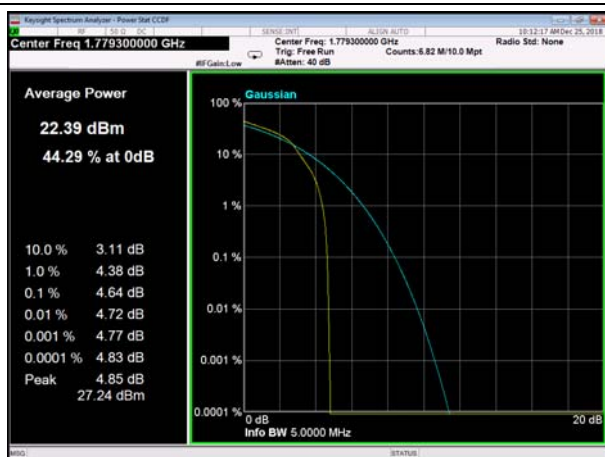
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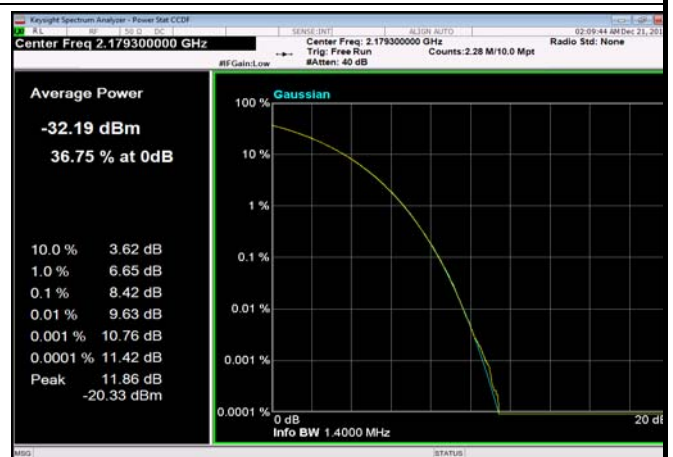
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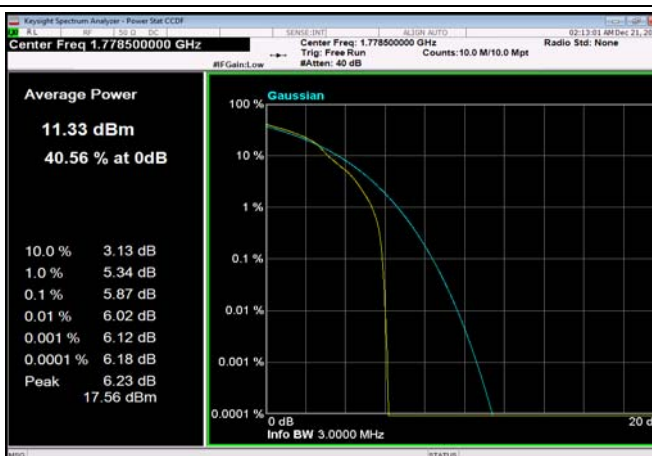
FDD66_1.4MHz_2179.3_OneRB_high_Q16



FDD66_1.4MHz_2179.3_fullRB_Q16



FDD66_3MHz_1778.5_OneRB_high_Q16



FDD66_3MHz_1778.5_fullRB_Q16

