



# FCC RF Test Report

**APPLICANT** : Lemobile Information Technology (Beijing) Co., Ltd  
**EQUIPMENT** : mobile Phone  
**BRAND NAME** : Letv  
**MODEL NAME** : Le 1 Pro  
**FCC ID** : 2AFWMLE1PRO  
**STANDARD** : 47 CFR Part 2, 22(H), 24(E), 27(L), 27(H)  
**CLASSIFICATION** : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on Aug. 25, 2015 and completely tested on Sep. 11, 2015. We, SPORTON INTERNATIONAL (SHENZHEN) INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA / EIA-603-C-2004 and the testing has shown the tested sample to be in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL (SHENZHEN) INC., the test report shall not be reproduced except in full.

---

Reviewed by: Joseph Lin / Supervisor

---

Approved by: Jones Tsai / Manager



**SPORTON INTERNATIONAL (SHENZHEN) INC.**

**1F & 2F, Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili Town,  
Nanshan District, Shenzhen, Guangdong, P. R. China**



## TABLE OF CONTENTS

<b>REVISION HISTORY.....</b>	<b>3</b>
<b>SUMMARY OF TEST RESULT .....</b>	<b>4</b>
<b>1 GENERAL DESCRIPTION .....</b>	<b>6</b>
1.1 Applicant.....	6
1.2 Manufacturer.....	6
1.3 Product Feature of Equipment Under Test.....	6
1.4 Product Specification subjective to this standard .....	7
1.5 Modification of EUT .....	8
1.6 Emission Designator.....	8
1.7 Testing Location .....	10
1.8 Applicable Standards.....	10
<b>2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST .....</b>	<b>11</b>
2.1 Test Mode.....	11
2.2 Connection Diagram of Test System.....	14
2.3 Support Unit used in test configuration and system .....	15
2.4 Measurement Results Explanation Example.....	15
2.5 Frequency List of Low/Middle/High Channels .....	16
<b>3 CONDUCTED TEST ITEMS .....</b>	<b>19</b>
3.1 Measuring Instruments .....	19
3.2 Test Setup .....	19
3.3 Test Result of Conducted Test .....	19
3.4 Conducted Output Power .....	20
3.5 Peak-to-Average Ratio .....	20
3.6 Occupied Bandwidth.....	21
3.7 Conducted Band Edge .....	22
3.8 Conducted Spurious Emission .....	24
3.9 Frequency Stability .....	25
<b>4 RADIATED TEST ITEMS .....</b>	<b>26</b>
4.1 Measuring Instruments .....	26
4.2 Test Setup .....	26
4.3 Test Result of Radiated Test .....	26
4.4 Effective Radiated Power and Effective Isotropic Radiated Power .....	27
4.5 Radiated Spurious Emission .....	29
<b>5 LIST OF MEASURING EQUIPMENT .....</b>	<b>30</b>
<b>6 UNCERTAINTY OF EVALUATION .....</b>	<b>31</b>
<b>APPENDIX A. TEST RESULTS OF CONDUCTED TEST</b>	
<b>APPENDIX B. TEST RESULTS OF RADIATED TEST</b>	
<b>APPENDIX C. TEST SETUP PHOTOGRAPHS</b>	



## REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG582501B	Rev. 01	Initial issue of report	Sep. 29, 2015

## SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.4	§2.1046	Conducted Output Power	Reporting Only	PASS	-
3.5	§24.232(d)	Peak-to-Average Ratio	<13 dB	PASS	-
3.6	§2.1049	Occupied Bandwidth	Reporting Only	PASS	-
3.7	§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.53(h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 12) (Band 17) (Band 25) (Band 26)	< 43+10log10(P[Watts])	PASS	-



Report Section	FCC Rule	Description	Limit	Result	Remark
3.8	§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.53(h)	Conducted Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 17) (Band 25) (Band 26)	$< 43 + 10\log_{10}(P[\text{Watts}])$	PASS	-
3.9	§2.1055 §22.355	Frequency Stability Temperature & Voltage	$< 2.5$ ppm for Part 22	PASS	-
	§2.1055 §24.235 §27.54		Within Authorized Band		
4.4	§22.913(a)(2)	Effective Radiated Power (Band 5) (Band 26)	ERP $< 7$ Watt	PASS	-
	§27.50(c)(10)	Effective Radiated Power (Band 12) (Band 17)	ERP $< 3$ Watt		
	§24.232(c)	Equivalent Isotropic Radiated Power (Band 2)(Band 25)	EIRP $< 2$ Watt		
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (Band 4)	EIRP $< 1$ Watt		
4.5	§2.1053 §22.917(a) §24.238(a) §27.53(g) §27.53(h)	Radiated Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 17) (Band 25) (Band 26)	$< 43 + 10\log_{10}(P[\text{Watts}])$	PASS	Under limit 17.02 dB at 5626.500 MHz



# 1 General Description

## 1.1 Applicant

**Lemobile Information Technology (Beijing) Co., Ltd**

WENHUAYING NORTH (No.1, LINKONG 2nd St), GAOLIYING, SHUNYI DISTRICT, BEIJING.China

## 1.2 Manufacturer

**Lemobile Information Technology (Beijing) Co., Ltd**

WENHUAYING NORTH (No.1, LINKONG 2nd St), GAOLIYING, SHUNYI DISTRICT, BEIJING.China

## 1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	mobile Phone
Brand Name	Letv
Model Name	Le 1 Pro
FCC ID	2AFWMLE1PRO
EUT supports Radios application	CDMA/EV-DO/GSM/GPRS/EGPRS/WCDMA/HSPA/HSPA+(Downlink Only)/DC-HSDPA/LTE/ANT+ WLAN2.4GHz 802.11b/g/n HT20/HT40 WLAN5GHz 802.11a/n HT20/HT40 WLAN5GHz 802.11ac VHT20/VHT40/VHT80 Bluetooth v3.0+EDR Bluetooth v4.1 LE
IMEI Code	Conducted: 868126020009324/868126020009332 Radiation: 868126020009662/868126020009670 ERP/EIRP: 868126020010447
HW Version	DVT3.2
SW Version	5.0.008S
EUT Stage	Identical Prototype

## 1.4 Product Specification subjective to this standard

Product Specification subjective to this standard	
<b>Tx Frequency</b>	LTE Band 2 : 1850.7 MHz ~ 1909.3 MHz LTE Band 4 : 1710.7 MHz ~ 1754.3 MHz LTE Band 5 : 824.7 MHz ~ 848.3 MHz LTE Band 12 : 699.7 MHz ~ 715.3 MHz LTE Band 17 : 706.5 MHz ~ 713.5 MHz LTE Band 25 : 1850.7MHz ~ 1914.3 MHz LTE Band 26 : 824.7 MHz ~ 848.3 MHz
<b>Rx Frequency</b>	LTE Band 2 : 1930.7 MHz ~ 1989.3 MHz LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz LTE Band 5 : 869.7 MHz ~ 893.3 MHz LTE Band 12 : 729.7 MHz ~ 745.3 MHz LTE Band 17 : 736.5 MHz ~ 743.5 MHz LTE Band 25 : 1930.7MHz ~ 1994.3 MHz LTE Band 26 : 869.7 MHz ~ 893.3 MHz
<b>Bandwidth</b>	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 12 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 17 : 5MHz / 10MHz LTE Band 25 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 26 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz
<b>Maximum Output Power to Antenna</b>	LTE Band 2 : 23.87 dBm LTE Band 4 : 23.84 dBm LTE Band 5 : 23.53 dBm LTE Band 12 : 23.31 dBm LTE Band 17 : 23.38 dBm LTE Band 25 : 23.84 dBm LTE Band 26 : 23.45 dBm
<b>Type of Modulation</b>	QPSK / 16QAM

## 1.5 Modification of EUT

No modifications are made to the EUT during all test items.

## 1.6 Emission Designator

LTE Band 2	QPSK			16QAM		
BW(MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
1.4	1M09G7D	-	0.2312	1M09W7D	-	0.1954
3	2M73G7D	-	0.2685	2M73W7D	-	0.2128
5	4M50G7D	-	0.2518	4M50W7D	-	0.2333
10	9M11G7D	0.0021	0.2618	9M05W7D	-	0.2366
15	13M5G7D	-	0.2805	13M5W7D	-	0.2173
20	18M6G7D	-	0.2891	18M6W7D	-	0.2275
LTE Band 4	QPSK			16QAM		
BW(MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
1.4	1M09G7D	-	0.1671	1M09W7D	-	0.1312
3	2M73G7D	-	0.1671	2M72W7D	-	0.1426
5	4M49G7D	-	0.1614	4M50W7D	-	0.1358
10	9M07G7D	0.0063	0.1694	9M03W7D	-	0.1416
15	13M5G7D	-	0.1710	13M5W7D	-	0.1400
20	18M5G7D	-	0.1466	18M5W7D	-	0.1486
LTE Band 5	QPSK			16QAM		
BW(MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
1.4	1M09G7D	-	0.0902	1M09W7D	-	0.0736
3	2M73G7D	-	0.0951	2M73W7D	-	0.0881
5	4M50G7D	-	0.0895	4M50W7D	-	0.0741
10	9M05G7D	0.0167	0.0918	9M03W7D	-	0.0710





LTE Band 12		QPSK		16QAM		
BW(MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
1.4	1M09G7D	-	0.0556	1M09W7D	-	0.0457
3	2M73G7D	-	0.0537	2M73W7D	-	0.0486
5	4M50G7D	-	0.0520	4M50W7D	-	0.0474
10	9M07G7D	0.0141	0.0516	9M05W7D	-	0.0530
LTE Band 17		QPSK		16QAM		
BW(MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
5	4M50G7D	-	0.0536	4M50W7D	-	0.0459
10	9M09G7D	0.0042	0.0508	9M05W7D	-	0.0501
LTE Band 25		QPSK		16QAM		
BW(MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum EIRP(W)
1.4	1M09G7D	-	0.2148	1M09W7D	-	0.1778
3	2M73G7D	-	0.2133	2M73W7D	-	0.2133
5	4M50G7D	-	0.2208	4M50W7D	-	0.2018
10	9M09G7D	0.0060	0.2655	9M07W7D	-	0.2089
15	13M5G7D	-	0.2667	13M5W7D	-	0.2148
20	18M5G7D	-	0.2642	18M6W7D	-	0.2148
LTE Band 26		QPSK		16QAM		
BW(MHz)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)	Emission Designator (99%OBW)	Frequency Tolerance (ppm)	Maximum ERP(W)
1.4	1M09G7D	-	0.0885	1M09W7D	-	0.0705
3	2M73G7D	-	0.0948	2M73W7D	-	0.0855
5	4M50G7D	-	0.0927	4M50W7D	-	0.0771
10	9M05G7D	0.0120	0.0871	9M03W7D	-	0.0794
15	13M5G7D	-	0.0893	13M5W7D	-	0.0690
15 (ch 26765)	13M4G7D	-	0.0927	13M4W7D	-	0.0774

## 1.7 Testing Location

<b>Test Site</b>	SPORTON INTERNATIONAL (SHENZHEN) INC.
<b>Test Site Location</b>	1F & 2F,Building A, Morning Business Center, No. 4003 ShiGu Rd., Xili Town, Nanshan District, Shenzhen, Guangdong, P. R. China TEL: +86-755-8637-9589 FAX: +86-755-8637-9595
<b>Test Site No.</b>	<b>Sporton Site No.</b> TH01-SZ

<b>Test Site</b>	SPORTON INTERNATIONAL (SHENZHEN) INC.	
<b>Test Site Location</b>	No. 3 Building, the third floor of south, Shahe River west, Fengzeyuan warehouse, Nanshan District, Shenzhen, Guangdong, P. R. China TEL: +86-755- 3320-2398	
<b>Test Site No.</b>	<b>Sporton Site No.</b> 03CH01-SZ	<b>FCC Registration No.</b> 831040

**Note:** The test site complies with ANSI C63.4 2009 requirement.

## 1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 2, 22(H), 24(E), 27(L), 27(H)
- ♦ ANSI / TIA / EIA-603-C-2004
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v02r02

### 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.



## 2 Test Configuration of Equipment Under Test

### 2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v02r02 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	✓	✓	✓	✓	-	-	✓	✓	✓	✓	✓	✓	✓	✓
	12	✓	✓	✓	✓	-	-	✓	✓	✓	✓	✓	✓	✓	✓
	17	-	-	✓	✓	-	-	✓	✓	✓	✓	✓	✓	✓	✓
	25	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	26	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓
Peak-to-Average Ratio	2						✓	✓	✓	✓		✓	✓	✓	✓
	4						✓	✓	✓	✓		✓	✓	✓	✓
	5				✓	-	-	✓	✓	✓		✓	✓	✓	✓
	12				✓	-	-	✓	✓	✓		✓	✓	✓	✓
	17	-	-		✓	-	-	✓	✓	✓		✓	✓	✓	✓
	25						✓	✓	✓	✓		✓	✓	✓	✓
	26					✓	-	✓	✓	✓		✓	✓	✓	✓
26dB and 99% Bandwidth	2	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓
	4	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓
	5	✓	✓	✓	✓	-	-	✓	✓			✓	✓	✓	✓
	12	✓	✓	✓	✓	-	-	✓	✓			✓	✓	✓	✓
	17	-	-	✓	✓	-	-	✓	✓			✓	✓	✓	✓
	25	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓
	26	✓	✓	✓	✓	✓	-	✓	✓			✓	✓	✓	✓



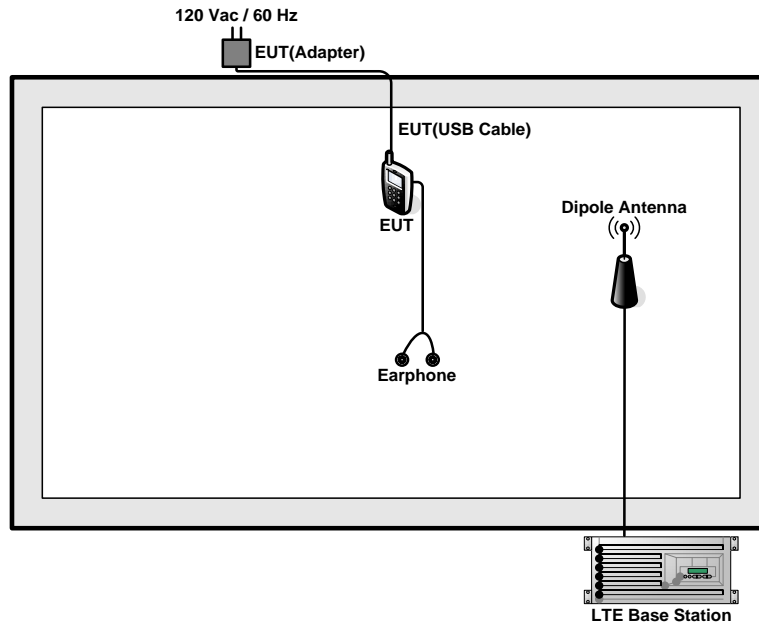
Test Items	Band	Bandwidth (MHz)						Modulation		RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
Conducted Band Edge	2	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓
	4	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓
	5	✓	✓	✓	✓	-	-	✓	✓	✓		✓	✓		✓
	12	✓	✓	✓	✓	-	-	✓	✓	✓		✓	✓		✓
	17	-	-	✓	✓	-	-	✓	✓	✓		✓	✓		✓
	25	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓
	26	✓	✓	✓	✓	✓	-	✓	✓	✓		✓	✓		✓
Conducted Spurious Emission	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
	4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
	5	✓	✓	✓	✓	-	-	✓	✓	✓	✓		✓	✓	✓
	12	✓	✓	✓	✓	-	-	✓	✓	✓	✓		✓	✓	✓
	17	-	-	✓	✓	-	-	✓	✓	✓			✓	✓	✓
	25	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
	26	✓	✓	✓	✓	✓	-	✓	✓	✓	✓		✓	✓	✓
Frequency Stability	2				✓			✓				✓		✓	
	4				✓			✓				✓		✓	
	5				✓	-	-	✓				✓		✓	
	12				✓	-	-	✓				✓		✓	
	17	-	-		✓	-	-	✓				✓		✓	
	25				✓			✓				✓		✓	
	26				✓		-	✓				✓		✓	



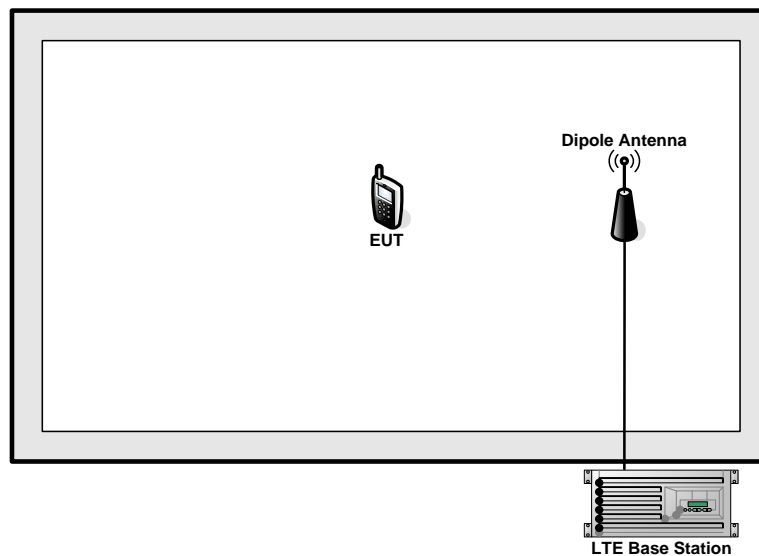
Test Items	Band	Bandwidth (MHz)						Modulation		RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
<b>E.R.P./E.I.R.P.</b>	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
	4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
	5	✓	✓	✓	✓	-	-	✓	✓	✓	✓		✓	✓	✓
	12	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
	17	-	-	✓	✓	-	-	✓	✓	✓			✓	✓	✓
	25	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓
	26	✓	✓	✓	✓	✓	-	✓	✓	✓	✓		✓	✓	✓
<b>Radiated Spurious Emission</b>	2	✓	✓	✓	✓	✓	✓	✓		✓				✓	
	4	✓	✓	✓	✓	✓	✓	✓		✓				✓	
	5	✓	✓	✓	✓	-	-	✓		✓				✓	
	12	✓	✓	✓	✓	-	-	✓		✓				✓	
	17	-	-	✓	✓	-	-	✓		✓				✓	
	25	✓	✓	✓	✓	✓	✓	✓		✓				✓	
	26	✓	✓	✓	✓	✓	-	✓		✓				✓	
<b>Note</b>	<p>1. The mark “✓” means that this configuration is chosen for testing</p> <p>2. The mark “-” means that this bandwidth is not supported.</p> <p>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.</p>														

## 2.2 Connection Diagram of Test System

### LTE Band 2 / 4 / 5 / 12 / 17 / 26



### LTE Band 25



## 2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	LTE Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	DC Power Supply	GW INSTEK	GPS-3030D	N/A	N/A	Unshielded, 1.8 m
3.	Earphone	Apple	MC690ZP/A	FCC DoC	Unshielded, 1.6 m	N/A

## 2.4 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 5.0 dB and 10dB attenuator.

Example :

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 5.0 + 10 = 15.0 \text{ (dB)}\end{aligned}$$



## 2.5 Frequency List of Low/Middle/High Channels

LTE Band 2 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	18700	18900	19100
	Frequency	1860	1880	1900
15	Channel	18675	18900	19125
	Frequency	1857.5	1880	1902.5
10	Channel	18650	18900	19150
	Frequency	1855	1880	1905
5	Channel	18625	18900	19175
	Frequency	1852.5	1880	1907.5
3	Channel	18615	18900	19185
	Frequency	1851.5	1880	1908.5
1.4	Channel	18607	18900	19193
	Frequency	1850.7	1880	1909.3

LTE Band 4 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20050	20175	20300
	Frequency	1720	1732.5	1745
15	Channel	20025	20175	20325
	Frequency	1717.5	1732.5	1747.5
10	Channel	20000	20175	20350
	Frequency	1715	1732.5	1750
5	Channel	19975	20175	20375
	Frequency	1712.5	1732.5	1752.5
3	Channel	19965	20175	20385
	Frequency	1711.5	1732.5	1753.5
1.4	Channel	19957	20175	20393
	Frequency	1710.7	1732.5	1754.3



LTE Band 5 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	20450	20525	20600
	Frequency	829	836.5	844
5	Channel	20425	20525	20625
	Frequency	826.5	836.5	846.5
3	Channel	20415	20525	20635
	Frequency	825.5	836.5	847.5
1.4	Channel	20407	20525	20643
	Frequency	824.7	836.5	848.3

LTE Band 12 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	23060	23095	23130
	Frequency	704	707.5	711
5	Channel	23035	23095	23155
	Frequency	701.5	707.5	713.5
3	Channel	23025	23095	23165
	Frequency	700.5	707.5	714.5
1.4	Channel	23017	23095	23173
	Frequency	699.7	707.5	715.3

LTE Band 17 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	23780	23790	23800
	Frequency	709	710	711
5	Channel	23755	23790	23825
	Frequency	706.5	710	713.5

LTE Band 25 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	26140	26340	26590
	Frequency	1860	1880	1905
15	Channel	26115	26340	26615
	Frequency	1857.5	1880	1907.5
10	Channel	26090	26340	26640
	Frequency	1855	1880	1910
5	Channel	26065	26340	26665
	Frequency	1852.5	1880	1912.5
3	Channel	26055	26340	26675
	Frequency	1851.5	1880	1913.5
1.4	Channel	26047	26340	26683
	Frequency	1850.7	1880	1914.3

LTE Band 26 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
15	Channel	26865	26915	26965
	Frequency	831.5	836.5	841.5
10	Channel	26840	26915	26990
	Frequency	829	836.5	844
5	Channel	26815	26915	27015
	Frequency	826.5	836.5	846.5
3	Channel	26805	26915	27025
	Frequency	825.5	836.5	847.5
1.4	Channel	26797	26915	27033
	Frequency	824.7	836.5	848.3

### 3 Conducted Test Items

#### 3.1 Measuring Instruments

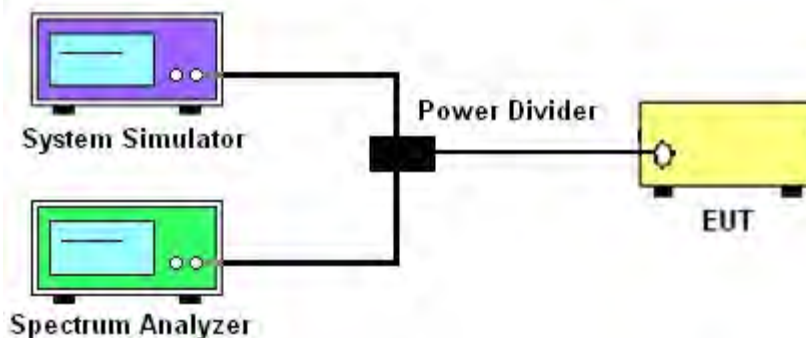
See list of measuring instruments of this test report.

#### 3.2 Test Setup

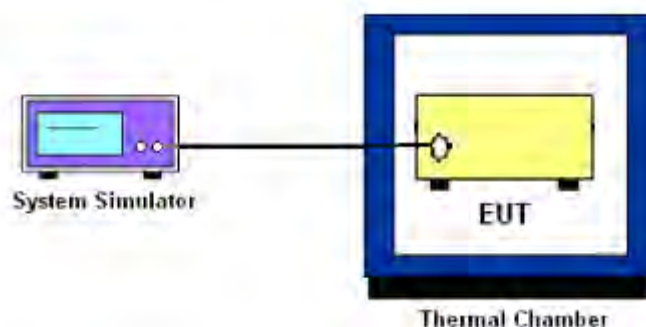
##### 3.2.1 Conducted Output Power



##### 3.2.2 Peak-to-Average Ratio, Occupied Bandwidth ,Conducted Band-Edge and Conducted Spurious Emission



##### 3.2.3 Frequency Stability



### 3.3 Test Result of Conducted Test

Please refer to Appendix A.

### **3.4 Conducted Output Power**

#### **3.4.1 Description of the Conducted Output Power Measurement**

A system simulator was used to establish communication with the EUT. Its parameters were set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

#### **3.4.2 Test Procedures**

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through the 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.

### **3.5 Peak-to-Average Ratio**

#### **3.5.1 Description of the PAR Measurement**

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.

#### **3.5.2 Test Procedures**

1. The testing follows FCC KDB 971168 v02r02 Section 5.7.1.
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
4. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
5. Record the deviation as Peak to Average Ratio.

## 3.6 Occupied Bandwidth

### 3.6.1 Description of Occupied Bandwidth Measurement

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.

### 3.6.2 Test Procedures

1. The testing follows FCC KDB 971168 v02r02 Section 4.2.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
4. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
5. Set the detection mode to peak, and the trace mode to max hold.
6. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.  
(this is the reference value)
7. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
8. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
9. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

### 3.7 Conducted Band Edge

#### 3.7.1 Description of Conducted Band Edge Measurement

22.917(a) for Band 5, 26

For operations in the 824 – 849 MHz band, the FCC limit is  $43 + 10\log_{10}(P[\text{Watts}])$  dB below the transmitter power  $P(\text{Watts})$  in a 100kHz 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.

24.238 (a) for Band 2, 25

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is  $43 + 10\log_{10}(P[\text{Watts}])$  dB below the transmitter power  $P(\text{Watts})$  in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

27.53 (g) for Band 12,17

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

27.53 (h) for Band 4

For operations in the 1710 – 1755 MHz band, the FCC limit is  $43 + 10\log_{10}(P[\text{Watts}])$  dB below the transmitter power  $P(\text{Watts})$  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.

### 3.7.2 Test Procedures

1. The testing follows FCC KDB 971168 v02r02 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.

Example:

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)

= -13dBm.

### 3.8 Conducted Spurious Emission

#### 3.8.1 Description of Conducted Spurious Emission Measurement

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.

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

#### 3.8.2 Test Procedures

1. The testing follows FCC KDB 971168 v02r02 Section 6.0.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. 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.
4. The middle channel for the highest RF power within the transmitting frequency was measured.
5. The conducted spurious emission for the whole frequency range was taken.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz.
7. Set spectrum analyzer with RMS detector.
8. Taking the record of maximum spurious emission.
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
10. 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)  
 $= -13\text{dBm}$ .



### **3.9 Frequency Stability**

#### **3.9.1 Description of Frequency Stability Measurement**

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.

#### **3.9.2 Test Procedures for Temperature Variation**

1. The testing follows FCC KDB 971168 v02r02 Section 9.0.
2. The EUT was set up in the thermal chamber and connected with the system simulator.
3. With power OFF, the temperature was decreased to  $-30^{\circ}\text{C}$  and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
4. With power OFF, the temperature was raised in  $10^{\circ}\text{C}$  step up to  $50^{\circ}\text{C}$ . 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.

#### **3.9.3 Test Procedures for Voltage Variation**

1. The testing follows FCC KDB 971168 v02r02 Section 9.0.
2. The EUT was placed in a temperature chamber at  $25\pm 5^{\circ}\text{C}$  and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
4. The variation in frequency was measured for the worst case.

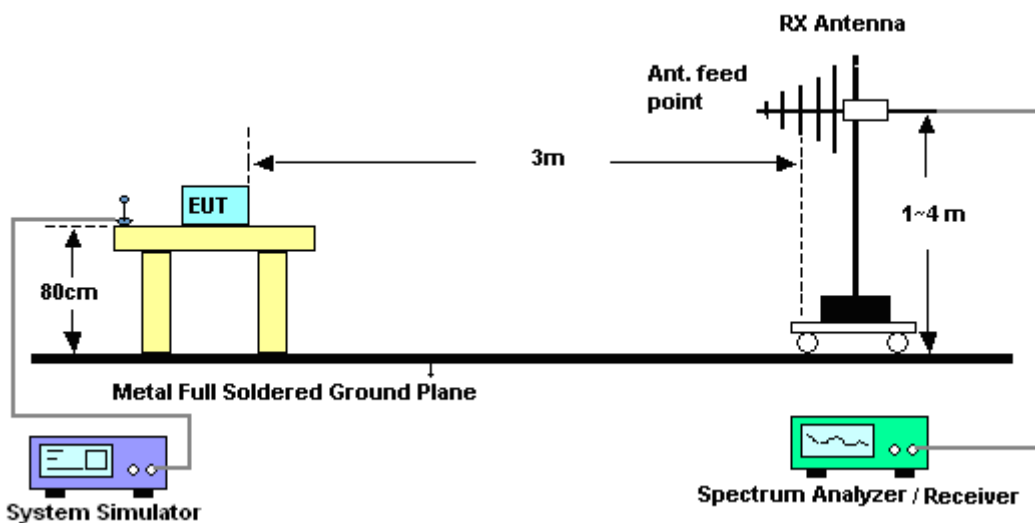
## 4 Radiated Test Items

### 4.1 Measuring Instruments

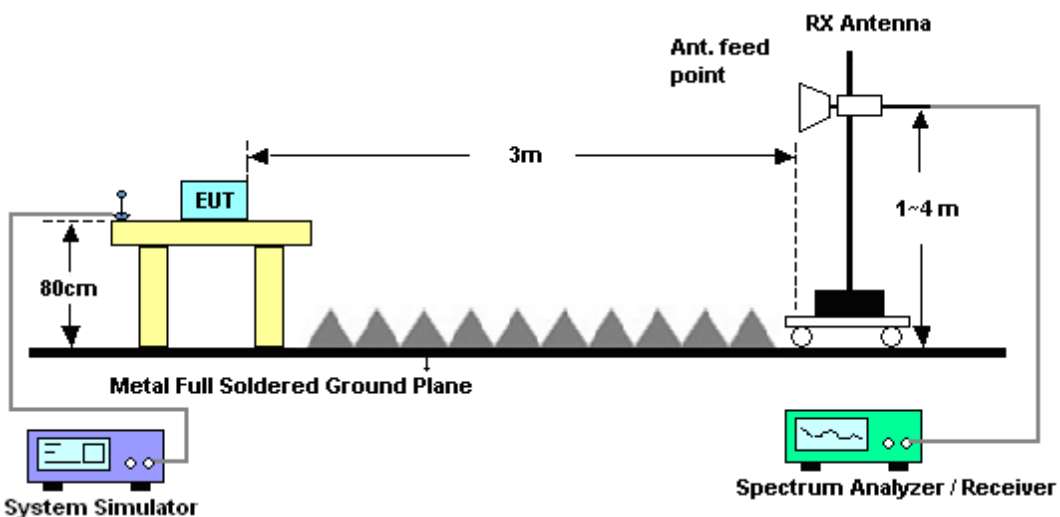
See list of measuring instruments of this test report.

### 4.2 Test Setup

#### 4.2.1 For radiated test from 30MHz to 1GHz



#### 4.2.2 For radiated test above 1GHz



### 4.3 Test Result of Radiated Test

Please refer to Appendix B.



## **4.4 Effective Radiated Power and Effective Isotropic Radiated Power**

### **4.4.1 Description of the ERP/EIRP Measurement**

Effective radiated power output measurements by substitution method according to ANSI / TIA / EIA-603-C-2004, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v02r02. 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 / 17.

Equivalent isotropic radiated power output measurements by substitution method according to ANSI / TIA / EIA-603-C-2004, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v02r02. Mobile and portable (hand-held) stations operating are limited to average EIRP of 2 watts with LTE band 2 / 25 and 1 watt with LTE band 4.

### **4.4.2 Test Procedures**

1. The EUT was placed on a non-conductive rotating platform 0.8 meters high in a semi-anechoic chamber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer with RMS detector per section 5. of KDB 971168 D01.
2. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power. The maximum emission was recorded from analyzer power level (LVL) from the 360 degrees rotation of the turntable and the test antenna raised and lowered over a range from 1 to 4 meters in both horizontally and vertically polarized orientations.
3. Effective Isotropic Radiated Power (EIRP) was measured by substitution method according to TIA/EIA-603-C. The EUT was replaced by the substitution antenna at same location, and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna. The correction factor (in dB) = S.G. - Tx Cable loss + Substitution antenna gain - Analyzer reading. Then the EUT's EIRP was calculated with the correction factor,  $EIRP = LVL + \text{Correction factor}$  and  $ERP = EIRP - 2.15$ . Take the record of the output power at substitution antenna.



	LTE Average					
LTE BW	1.4M	3M	5M	10M	15M	20M
Span	3MHz	6MHz	10MHz	20MHz	30MHz	40MHz
RBW	30kHz	100kHz	100kHz	300kHz	300kHz	300kHz
VBW	100kHz	300kHz	300kHz	1MHz	1MHz	1MHz
Detector	RMS	RMS	RMS	RMS	RMS	RMS
Trace	Average	Average	Average	Average	Average	Average
Average Type	Power	Power	Power	Power	Power	Power
Sweep Count	100	100	100	100	100	100

## **4.5 Radiated Spurious Emission**

### **4.5.1 Description of Radiated Spurious Emission**

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 LTE Band 12, 17

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to  $-70$  dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and  $-80$  dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

### **4.5.2 Test Procedures**

1. The testing follows FCC KDB 971168 v02r02 Section 5.8 and ANSI / TIA-603-C-2004 Section 2.2.12.
2. The EUT was placed on a rotatable wooden table with 0.8 meter above ground.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. 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.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
9. Taking the record of output power at antenna port.
10. Repeat step 7 to step 8 for another polarization.
11. 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.

12.  $EIRP$  (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
13.  $ERP$  (dBm) =  $EIRP - 2.15$



## 5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	9kHz~40GHz	May 05, 2015	Aug. 29, 2015~ Sep. 11, 2015	May 04, 2016	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhangroup	LP-150U	H2014081803	-40~+150°C	Aug. 07, 2015	Aug. 29, 2015~ Sep. 11, 2015	Aug. 06, 2016	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent Technologies	N9038A	MY52260185	20Hz~26.5GHz	May 26, 2015	Aug. 30, 2015~ Sep. 05, 2015	May 25, 2016	Radiation (03CH01-SZ)
Spectrum Analyzer	R&S	FSV40	101041	10kHz~40GHz;Ma x 30dBm	Oct. 15, 2014	Aug. 30, 2015~ Sep. 05, 2015	Oct. 14, 2015	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	23188	30MHz~2GHz	Nov. 07, 2014	Aug. 30, 2015~ Sep. 05, 2015	Nov. 06, 2015	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Oct. 15, 2014	Aug. 30, 2015~ Sep. 05, 2015	Oct. 14, 2015	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Aug. 19, 2015	Aug. 30, 2015~ Sep. 05, 2015	Aug. 18, 2016	Radiation (03CH01-SZ)
Amplifier	ADVANTEST	BB525C	E9007003	9kHz~3000MHz / 30 dB	Jan. 28, 2015	Aug. 30, 2015~ Sep. 05, 2015	Jan. 27, 2016	Radiation (03CH01-SZ)
Amplifier	Yiai	AV3860B	04030	2GHz~26.5GHz	May 05, 2015	Aug. 30, 2015~ Sep. 05, 2015	May 04, 2016	Radiation (03CH01-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5GHz	Jan. 28, 2015	Aug. 30, 2015~ Sep. 05, 2015	Jan. 27, 2016	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	NCR	Aug. 30, 2015~ Sep. 05, 2015	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Aug. 30, 2015~ Sep. 05, 2015	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Aug. 30, 2015~ Sep. 05, 2015	NCR	Radiation (03CH01-SZ)



## 6 Uncertainty of Evaluation

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2U_c(y)$ )	3.9 dB
---	--------



## Appendix A. Test Results of Conducted Test

### Conducted Output Power(Average power)

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.85	23.79	23.87
20	1	49		23.25	23.51	23.17
20	1	99		23.24	23.44	23.53
20	50	0		22.53	22.33	22.55
20	50	24		22.22	22.26	22.33
20	50	50		22.22	22.16	22.39
20	100	0		22.37	22.27	22.43
20	1	0	16-QAM	23.29	23.03	23.10
20	1	49		22.30	22.21	22.50
20	1	99		22.66	22.51	22.73
20	50	0		21.60	21.34	21.59
20	50	24		21.27	21.20	21.33
20	50	50		21.29	21.18	21.37
20	100	0		21.35	21.38	21.60
15	1	0	QPSK	23.84	23.60	23.75
15	1	37		23.21	23.04	23.14
15	1	74		23.26	23.26	23.37
15	36	0		22.57	22.43	22.52
15	36	20		22.22	22.16	22.33
15	36	39		22.16	22.07	22.25
15	75	0		22.19	22.26	22.42
15	1	0	16-QAM	23.09	22.94	23.44
15	1	37		22.42	22.39	22.31
15	1	74		22.85	22.63	22.83
15	36	0		21.46	21.39	21.62
15	36	20		21.39	21.24	21.28
15	36	39		21.21	21.12	21.19
15	75	0		21.35	21.24	21.38





LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.41	23.27	23.80
10	1	25		23.12	23.12	23.41
10	1	49		23.31	23.24	23.63
10	25	0		22.37	22.24	22.43
10	25	12		22.43	22.17	22.46
10	25	25		22.22	22.15	22.21
10	50	0		22.41	22.22	22.36
10	1	0	16-QAM	22.49	22.31	23.06
10	1	25		22.24	22.00	22.19
10	1	49		21.99	22.20	22.42
10	25	0		21.40	21.20	21.52
10	25	12		21.24	21.13	21.44
10	25	25		21.14	21.22	21.20
10	50	0		21.39	21.12	21.30
5	1	0	QPSK	23.29	23.22	23.43
5	1	12		22.95	23.06	23.11
5	1	24		22.98	23.05	23.24
5	12	0		22.18	22.06	22.38
5	12	7		22.23	22.19	22.36
5	12	13		22.14	22.09	22.36
5	25	0		22.16	22.27	22.34
5	1	0	16-QAM	22.50	22.26	22.61
5	1	12		22.37	22.05	22.43
5	1	24		22.41	22.15	22.54
5	12	0		21.19	21.22	21.44
5	12	7		21.14	21.16	21.45
5	12	13		21.16	21.03	21.33
5	25	0		21.16	21.07	21.24



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.39	23.23	23.42
3	1	8		22.99	23.24	23.50
3	1	14		23.01	23.01	23.29
3	8	0		22.09	22.16	22.27
3	8	4		22.22	22.22	22.38
3	8	7		22.12	22.10	22.32
3	15	0		22.07	22.17	22.34
3	1	0	16-QAM	22.62	22.29	22.31
3	1	8		22.99	22.30	22.48
3	1	14		22.27	22.36	22.58
3	8	0		21.14	21.22	21.44
3	8	4		21.30	21.19	21.48
3	8	7		21.20	21.21	21.40
3	15	0		21.17	21.20	21.31
1.4	1	0	QPSK	23.30	23.19	23.47
1.4	1	3		23.42	23.16	23.25
1.4	1	5		23.18	23.37	23.38
1.4	3	0		23.32	23.08	23.39
1.4	3	1		23.52	23.29	23.24
1.4	3	3		23.29	23.19	23.33
1.4	6	0		22.19	22.12	22.21
1.4	1	0	16-QAM	22.37	22.32	22.44
1.4	1	3		22.19	22.17	22.34
1.4	1	5		22.36	22.32	22.37
1.4	3	0		22.53	22.22	22.28
1.4	3	1		22.08	21.97	22.44
1.4	3	3		22.24	21.96	22.35
1.4	6	0		21.36	21.14	21.57



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.60	23.68	23.84
20	1	49		22.92	23.06	23.28
20	1	99		23.13	23.27	23.69
20	50	0		22.14	22.30	22.47
20	50	24		22.05	22.11	22.31
20	50	50		22.00	22.04	22.40
20	100	0		22.00	22.20	22.46
20	1	0	16-QAM	22.93	22.77	23.00
20	1	49		22.07	22.10	22.30
20	1	99		22.28	22.10	22.59
20	50	0		21.14	21.28	21.54
20	50	24		21.00	21.10	21.28
20	50	50		20.96	21.02	21.37
20	100	0		21.00	21.16	21.43
15	1	0	QPSK	23.18	23.39	23.52
15	1	37		22.55	23.06	23.25
15	1	74		22.98	23.24	23.29
15	36	0		22.01	22.15	22.34
15	36	20		21.96	22.04	22.27
15	36	39		21.69	22.15	22.25
15	75	0		21.88	22.11	22.35
15	1	0	16-QAM	22.33	22.53	22.51
15	1	37		21.65	22.03	22.31
15	1	74		21.97	21.92	22.64
15	36	0		20.99	21.14	21.29
15	36	20		20.96	21.02	21.24
15	36	39		20.82	21.03	21.24
15	75	0		20.96	21.10	21.30



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.54	23.53	23.73
10	1	25		22.88	23.13	23.46
10	1	49		23.23	23.27	23.52
10	25	0		22.13	22.34	22.41
10	25	12		22.02	22.03	22.32
10	25	25		21.99	22.14	22.32
10	50	0		22.01	22.17	22.40
10	1	0	16-QAM	22.80	23.00	22.78
10	1	25		22.36	22.75	22.61
10	1	49		22.02	22.35	22.86
10	25	0		21.11	21.33	21.41
10	25	12		21.01	21.16	21.25
10	25	25		20.99	21.16	21.25
10	50	0		20.96	21.15	21.26
5	1	0	QPSK	23.02	23.27	23.30
5	1	12		22.72	22.84	23.07
5	1	24		22.65	23.02	23.04
5	12	0		22.01	22.07	22.27
5	12	7		22.01	22.17	22.21
5	12	13		21.86	22.19	22.34
5	25	0		21.83	22.21	22.23
5	1	0	16-QAM	22.21	22.56	22.52
5	1	12		22.11	22.62	22.58
5	1	24		22.01	22.31	22.45
5	12	0		21.00	21.20	21.24
5	12	7		20.89	21.17	21.21
5	12	13		20.97	21.08	21.28
5	25	0		20.77	21.23	21.08



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.01	23.16	23.51
3	1	8		23.33	23.41	23.69
3	1	14		22.95	23.29	23.33
3	8	0		21.95	22.05	22.12
3	8	4		21.83	22.12	22.12
3	8	7		21.89	22.06	22.08
3	15	0		21.91	22.10	22.10
3	1	0	16-QAM	22.20	21.98	22.29
3	1	8		22.20	22.09	22.23
3	1	14		21.73	22.12	22.18
3	8	0		21.22	21.05	21.32
3	8	4		21.12	21.23	21.36
3	8	7		20.96	21.15	21.20
3	15	0		20.98	21.20	21.13
1.4	1	0	QPSK	23.21	23.34	23.15
1.4	1	3		23.15	22.94	23.27
1.4	1	5		23.17	23.08	23.06
1.4	3	0		22.95	23.01	23.24
1.4	3	1		22.90	23.20	23.36
1.4	3	3		22.99	23.17	23.13
1.4	6	0		21.79	21.92	22.02
1.4	1	0	16-QAM	22.09	22.28	22.87
1.4	1	3		22.35	22.47	22.45
1.4	1	5		22.02	22.26	22.74
1.4	3	0		21.90	22.08	22.13
1.4	3	1		21.96	22.12	22.39
1.4	3	3		22.05	22.20	22.47
1.4	6	0		20.99	21.00	21.32



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.35	23.32	23.53
10	1	25		23.32	23.26	23.28
10	1	49		23.28	23.30	23.42
10	25	0		22.18	22.24	22.34
10	25	12		22.10	22.19	22.16
10	25	25		22.08	22.23	22.32
10	50	0		22.21	22.22	22.40
10	1	0	16-QAM	22.98	22.87	23.07
10	1	25		22.83	23.01	22.82
10	1	49		22.80	22.74	22.95
10	25	0		21.21	21.27	21.35
10	25	12		20.94	21.18	21.19
10	25	25		21.04	21.12	21.19
10	50	0		21.10	21.26	21.35
5	1	0	QPSK	23.31	23.15	23.50
5	1	12		23.26	23.18	23.20
5	1	24		22.92	23.26	23.39
5	12	0		22.07	22.06	22.16
5	12	7		22.12	22.09	22.22
5	12	13		22.04	22.15	22.22
5	25	0		22.10	22.05	22.35
5	1	0	16-QAM	22.36	22.28	22.55
5	1	12		22.50	22.34	22.46
5	1	24		22.15	22.21	22.49
5	12	0		21.08	21.10	21.28
5	12	7		21.12	21.24	21.34
5	12	13		21.15	21.19	21.38
5	25	0		21.11	21.10	21.21



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.06	23.12	23.51
3	1	8		23.32	23.00	23.49
3	1	14		22.98	23.26	23.50
3	8	0		22.08	22.16	22.27
3	8	4		22.00	22.27	22.36
3	8	7		22.11	22.14	22.32
3	15	0		22.13	22.07	22.37
3	1	0	16-QAM	22.04	22.12	22.42
3	1	8		22.10	22.23	22.45
3	1	14		21.99	22.11	22.40
3	8	0		21.05	21.26	21.12
3	8	4		21.08	21.14	21.31
3	8	7		21.29	21.14	21.38
3	15	0		21.13	21.09	21.19
1.4	1	0	QPSK	23.19	23.22	23.42
1.4	1	3		23.22	23.30	23.36
1.4	1	5		23.29	23.20	23.30
1.4	3	0		23.21	23.25	23.44
1.4	3	1		23.30	23.29	23.45
1.4	3	3		23.25	23.26	23.51
1.4	6	0		22.20	22.06	22.27
1.4	1	0	16-QAM	22.90	23.05	23.15
1.4	1	3		22.69	22.75	22.90
1.4	1	5		22.91	22.77	22.74
1.4	3	0		22.25	22.19	22.42
1.4	3	1		22.40	22.32	22.50
1.4	3	3		22.30	22.28	22.28
1.4	6	0		21.30	21.24	21.26



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	22.88	22.77	23.12
10	1	25		22.96	23.06	23.31
10	1	49		22.94	22.83	23.09
10	25	0		21.82	22.06	22.06
10	25	12		22.06	22.17	22.25
10	25	25		22.02	22.14	21.96
10	50	0		21.93	21.95	21.98
10	1	0	16-QAM	22.30	22.41	22.72
10	1	25		22.45	22.45	22.35
10	1	49		22.44	22.77	22.14
10	25	0		20.67	21.06	20.98
10	25	12		20.89	21.11	21.25
10	25	25		21.10	20.90	20.98
10	50	0		20.97	21.05	21.01
5	1	0	QPSK	22.61	22.86	23.01
5	1	12		22.44	22.79	23.03
5	1	24		22.82	23.05	22.78
5	12	0		21.91	21.89	21.76
5	12	7		21.58	21.94	21.72
5	12	13		21.84	21.87	22.02
5	25	0		22.13	21.97	21.65
5	1	0	16-QAM	22.00	22.53	22.67
5	1	12		22.29	22.32	22.66
5	1	24		22.22	22.56	22.23
5	12	0		20.97	21.01	21.11
5	12	7		20.43	21.00	20.58
5	12	13		20.72	21.11	20.89
5	25	0		20.99	20.85	20.67





LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	22.92	23.05	22.85
3	1	8		22.87	23.02	22.95
3	1	14		22.74	22.81	23.20
3	8	0		22.23	21.96	21.67
3	8	4		21.92	22.18	21.71
3	8	7		21.97	21.81	22.32
3	15	0		21.86	21.99	21.68
3	1	0	16-QAM	22.54	22.36	22.20
3	1	8		22.34	22.42	22.45
3	1	14		22.40	22.20	22.43
3	8	0		21.32	21.20	21.28
3	8	4		20.97	21.14	21.33
3	8	7		20.83	21.43	21.43
3	15	0		20.84	20.95	20.57
1.4	1	0	QPSK	22.91	22.94	23.09
1.4	1	3		22.93	23.00	23.07
1.4	1	5		22.88	22.80	22.76
1.4	3	0		22.94	23.02	22.97
1.4	3	1		22.78	22.84	22.79
1.4	3	3		22.81	23.04	23.02
1.4	6	0		22.00	21.99	21.90
1.4	1	0	16-QAM	22.89	22.38	22.08
1.4	1	3		22.45	22.37	22.17
1.4	1	5		22.10	22.22	22.12
1.4	3	0		22.55	22.26	22.25
1.4	3	1		21.89	22.09	21.98
1.4	3	3		21.96	22.21	22.01
1.4	6	0		21.39	21.10	20.81



LTE Band 17 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.01	23.29	23.25
10	1	25		23.18	23.38	23.29
10	1	49		23.05	22.97	23.08
10	25	0		22.04	22.12	22.09
10	25	12		22.01	21.92	21.78
10	25	25		22.03	21.96	21.77
10	50	0		22.14	22.16	22.00
10	1	0	16-QAM	22.32	21.86	22.08
10	1	25		22.10	21.72	21.63
10	1	49		22.66	22.17	22.06
10	25	0		21.13	21.14	21.33
10	25	12		21.05	21.26	21.24
10	25	25		21.23	21.29	20.83
10	50	0		21.13	21.09	21.02
5	1	0	QPSK	23.00	23.06	23.11
5	1	12		22.91	23.07	23.03
5	1	24		22.98	23.02	23.11
5	12	0		22.05	21.85	22.09
5	12	7		22.05	22.14	21.98
5	12	13		22.13	21.98	21.93
5	25	0		22.04	22.11	21.77
5	1	0	16-QAM	22.22	22.17	21.87
5	1	12		22.17	22.17	22.17
5	1	24		22.51	22.45	22.66
5	12	0		21.02	20.92	21.04
5	12	7		21.13	21.04	21.25
5	12	13		21.13	20.94	20.90
5	25	0		21.15	20.83	20.69



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
20	1	0	QPSK	23.80	23.74	23.84
20	1	49		23.20	23.12	23.27
20	1	99		23.29	23.43	23.18
20	50	0		22.51	22.36	22.54
20	50	24		22.24	22.24	22.38
20	50	50		22.25	22.24	22.18
20	100	0		22.50	22.34	22.53
20	1	0	16-QAM	23.36	23.39	23.40
20	1	49		22.67	22.62	22.70
20	1	99		22.76	22.93	22.72
20	50	0		21.56	21.39	21.57
20	50	24		21.25	21.21	21.30
20	50	50		21.29	21.20	21.23
20	100	0		21.54	21.32	21.37
15	1	0	QPSK	23.67	23.63	23.74
15	1	37		23.36	22.98	23.26
15	1	74		23.16	23.14	23.23
15	36	0		22.37	22.12	22.44
15	36	20		22.09	21.98	22.22
15	36	39		22.05	22.12	22.13
15	75	0		22.20	22.11	22.29
15	1	0	16-QAM	23.01	22.93	23.23
15	1	37		22.96	22.72	22.76
15	1	74		22.54	22.83	22.57
15	36	0		21.41	21.09	21.36
15	36	20		21.23	21.13	21.25
15	36	39		21.08	21.06	21.08
15	75	0		21.43	21.13	21.31



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
10	1	0	QPSK	23.39	23.18	23.41
10	1	25		22.96	22.86	23.00
10	1	49		23.16	23.09	23.10
10	25	0		22.32	22.07	22.35
10	25	12		22.21	22.02	22.17
10	25	25		21.93	22.03	22.10
10	50	0		22.23	22.00	22.24
10	1	0	16-QAM	22.76	22.65	23.24
10	1	25		22.63	22.17	22.49
10	1	49		22.56	22.39	22.21
10	25	0		21.34	21.01	21.44
10	25	12		21.22	21.07	21.29
10	25	25		20.97	21.01	21.01
10	50	0		21.23	21.03	21.40
5	1	0	QPSK	23.10	22.97	23.15
5	1	12		23.11	23.01	23.13
5	1	24		23.25	23.07	22.97
5	12	0		22.24	21.96	22.15
5	12	7		22.20	22.00	22.09
5	12	13		22.13	22.01	22.01
5	25	0		22.26	21.97	22.16
5	1	0	16-QAM	22.79	22.38	22.57
5	1	12		22.57	22.45	22.55
5	1	24		22.48	22.51	22.35
5	12	0		21.17	20.93	21.14
5	12	7		21.13	20.95	21.09
5	12	13		21.15	20.97	21.01
5	25	0		21.25	21.04	20.99



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
3	1	0	QPSK	23.14	23.16	23.07
3	1	8		23.32	23.06	23.01
3	1	14		23.35	23.10	23.14
3	8	0		22.18	22.78	21.99
3	8	4		22.12	22.95	22.05
3	8	7		22.05	22.96	22.01
3	15	0		22.11	21.92	21.96
3	1	0	16-QAM	22.72	21.90	22.57
3	1	8		22.79	21.78	22.71
3	1	14		22.35	22.18	21.89
3	8	0		21.32	22.08	21.12
3	8	4		21.23	22.02	21.10
3	8	7		21.15	22.03	21.00
3	15	0		21.13	20.82	21.02
1.4	1	0	QPSK	23.40	23.16	22.93
1.4	1	3		23.49	23.06	22.87
1.4	1	5		23.37	23.10	23.04
1.4	3	0		23.37	22.78	22.90
1.4	3	1		23.39	22.95	22.99
1.4	3	3		23.09	22.96	22.79
1.4	6	0		22.09	21.92	21.89
1.4	1	0	16-QAM	21.98	21.90	21.77
1.4	1	3		22.12	21.78	22.00
1.4	1	5		22.30	22.18	21.78
1.4	3	0		22.50	22.08	22.15
1.4	3	1		22.08	22.02	22.20
1.4	3	3		22.32	22.03	21.75
1.4	6	0		21.08	20.82	20.84



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.07	23.26	23.00
1.4	1	3		23.07	23.05	23.06
1.4	1	5		23.20	22.87	23.07
1.4	3	0		22.93	22.78	22.98
1.4	3	1		23.07	22.98	23.04
1.4	3	3		23.06	22.93	23.19
1.4	6	0		21.87	21.88	21.94
1.4	1	0	16-QAM	21.93	22.01	21.88
1.4	1	3		22.01	21.80	22.26
1.4	1	5		22.06	22.11	22.11
1.4	3	0		21.75	21.95	22.06
1.4	3	1		21.79	21.93	22.23
1.4	3	3		21.80	21.98	22.27
1.4	6	0		20.88	20.77	20.95
3	1	0	QPSK	22.75	22.81	23.06
3	1	8		22.84	23.44	23.45
3	1	14		22.77	22.81	22.92
3	8	0		21.88	21.94	22.02
3	8	4		21.97	22.00	22.11
3	8	7		21.79	21.97	22.14
3	15	0		21.83	21.91	22.05
3	1	0	16-QAM	22.08	22.49	22.18
3	1	8		22.24	22.48	22.25
3	1	14		22.15	22.31	22.07
3	8	0		20.79	20.98	21.14
3	8	4		20.85	20.93	20.96
3	8	7		20.80	20.92	21.08
3	15	0		20.84	21.01	21.01



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.99	23.05	23.22
5	1	12		22.70	22.91	23.23
5	1	24		22.87	23.05	23.06
5	12	0		21.85	21.73	22.01
5	12	7		21.90	22.00	22.07
5	12	13		21.90	21.91	22.02
5	25	0		21.98	21.85	22.18
5	1	0	16-QAM	22.53	22.61	22.46
5	1	12		22.45	22.79	22.74
5	1	24		22.46	22.58	22.37
5	12	0		20.96	20.89	21.05
5	12	7		20.89	21.02	21.04
5	12	13		20.83	20.94	21.07
5	25	0		20.94	20.94	21.02
10	1	0	QPSK	23.16	23.19	23.32
10	1	25		23.13	23.07	23.06
10	1	49		22.85	23.03	23.19
10	25	0		21.97	22.01	21.97
10	25	12		21.83	21.95	21.98
10	25	25		21.89	21.86	21.93
10	50	0		21.82	21.92	22.08
10	1	0	16-QAM	21.82	22.06	22.12
10	1	25		21.89	22.31	22.46
10	1	49		22.17	22.03	22.40
10	25	0		20.93	21.05	20.99
10	25	12		20.90	21.01	21.01
10	25	25		20.85	20.90	21.08
10	50	0		20.92	20.90	20.93



LTE Band 26 Maximum Average Power [dBm]							
BW [MHz]	RB Size	RB Offset	Mod	Ch26765	Lowest	Middle	Highest
15	1	0	QPSK	23.10	23.16	23.06	23.14
15	1	37		23.14	22.91	23.22	23.02
15	1	74		23.12	23.14	23.05	23.14
15	36	0		21.86	21.97	22.07	21.99
15	36	20		21.97	22.01	22.09	22.15
15	36	39		22.00	21.95	22.13	22.04
15	75	0		21.91	21.92	22.09	22.11
15	1	0	16-QAM	21.99	22.25	22.01	22.03
15	1	37		22.01	21.81	22.21	21.76
15	1	74		22.08	22.05	22.15	22.11
15	36	0		20.87	21.05	21.24	21.04
15	36	20		21.00	20.99	21.08	20.99
15	36	39		21.03	20.96	21.11	21.02
15	75	0		21.02	20.99	21.04	21.05



## Peak-to-Average Ratio

Mode	LTE Band 2 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.28	4.52	3.77	5.54	<b>PASS</b>
Middle CH	3.59	4.90	4.17	5.97	
Highest CH	2.93	4.72	3.80	5.68	

Mode	LTE Band 4 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.33	4.35	4.12	5.42	<b>PASS</b>
Middle CH	3.19	4.67	4.12	5.68	
Highest CH	3.77	4.70	4.55	5.68	

Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.93	5.33	6.00	6.29	<b>PASS</b>
Middle CH	4.64	5.25	5.71	6.12	
Highest CH	4.75	5.04	5.51	6.20	

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.43	4.70	5.07	5.74	<b>PASS</b>
Middle CH	4.49	4.81	5.19	5.74	
Highest CH	3.86	5.04	4.67	5.94	

Mode	LTE Band 17 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.26	4.87	4.55	5.77	<b>PASS</b>
Middle CH	4.03	4.93	5.07	5.77	
Highest CH	3.74	4.99	4.49	5.88	

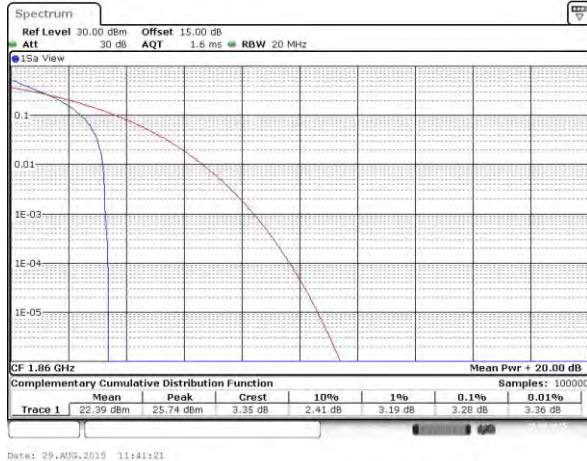
Mode	LTE Band 25 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.07	4.49	3.71	5.48	<b>PASS</b>
Middle CH	3.62	4.93	4.23	5.94	
Highest CH	3.33	4.84	3.91	5.83	

Mode	LTE Band 26 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.58	5.10	5.59	6.00	<b>PASS</b>
Middle CH	4.46	5.16	5.39	6.06	
Highest CH	4.29	5.16	5.30	6.03	

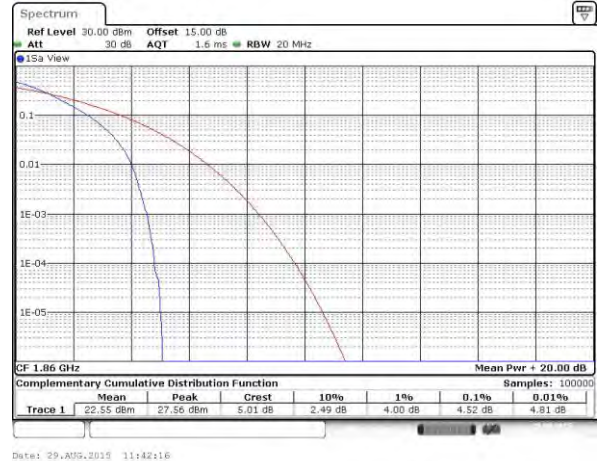


## LTE Band 2 / 20MHz / QPSK

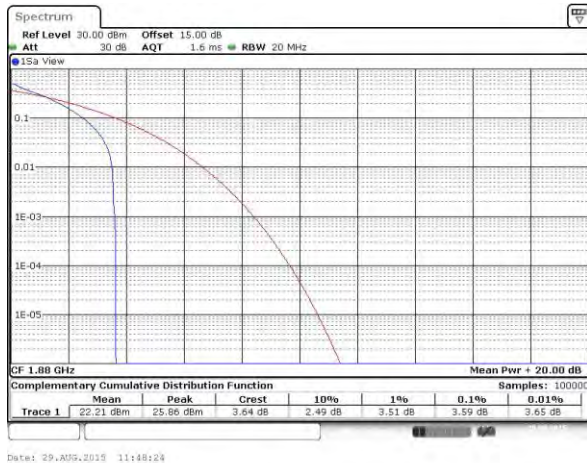
## Lowest Channel / 1RB



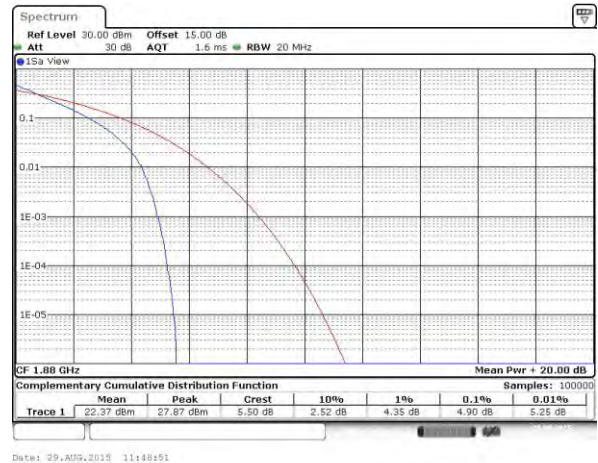
## Lowest Channel / Full RB



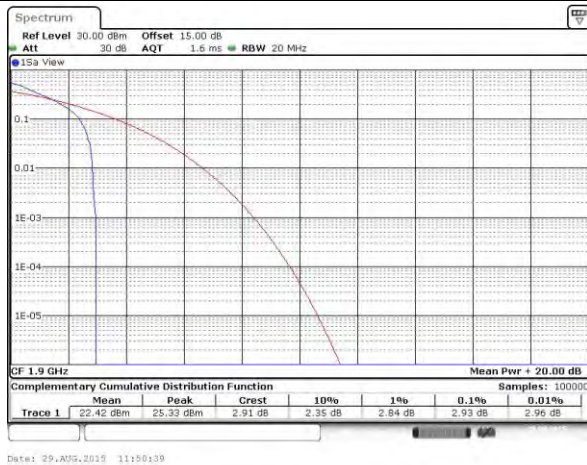
## Middle Channel / 1RB



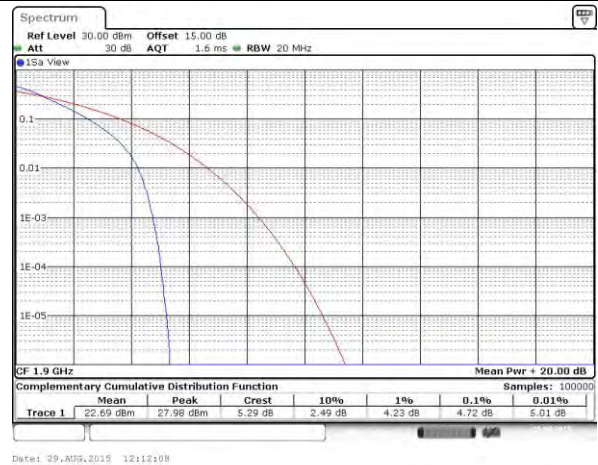
## Middle Channel / Full RB



## Highest Channel / 1RB



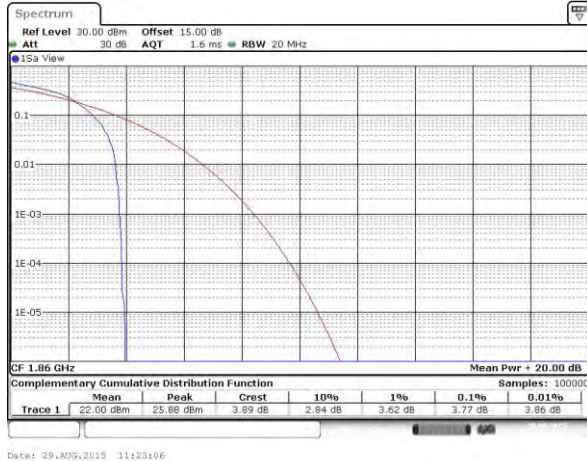
## Highest Channel / Full RB





## LTE Band 2 / 20MHz / 16QAM

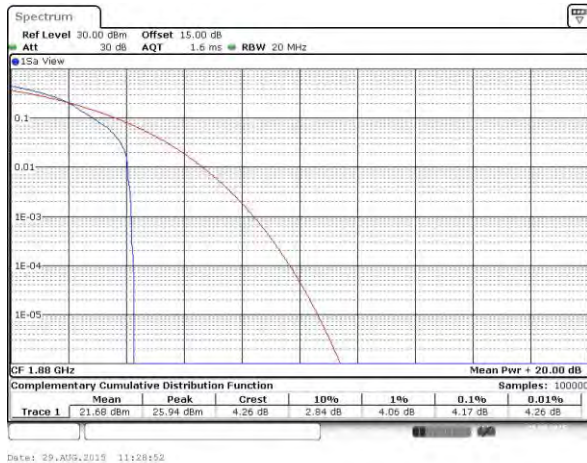
## Lowest Channel / 1RB



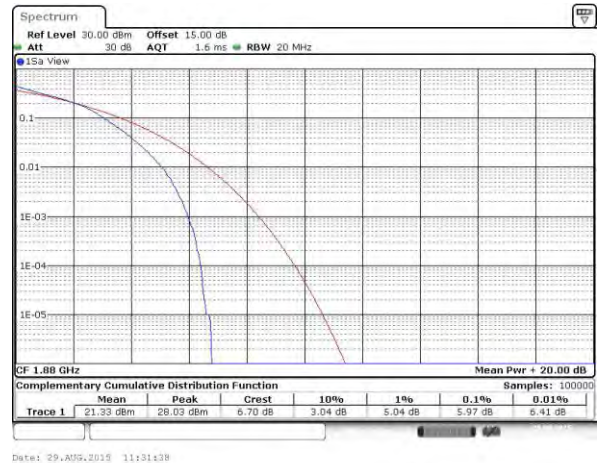
## Lowest Channel / Full RB



## Middle Channel / 1RB



## Middle Channel / Full RB



## Highest Channel / 1RB



## Highest Channel / Full RB

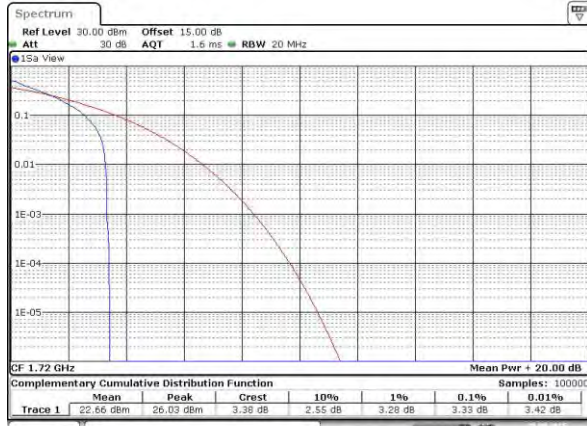




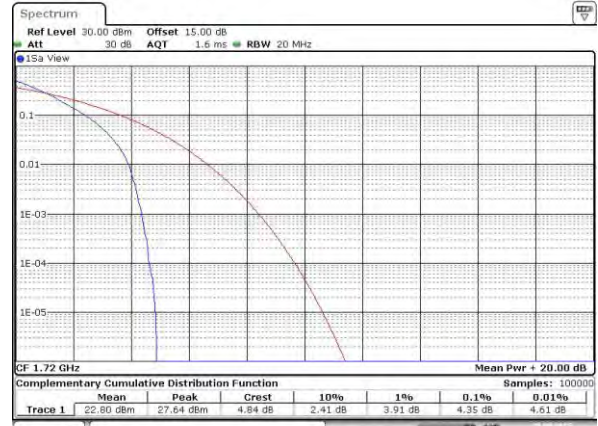


## LTE Band 4 / 20MHz / QPSK

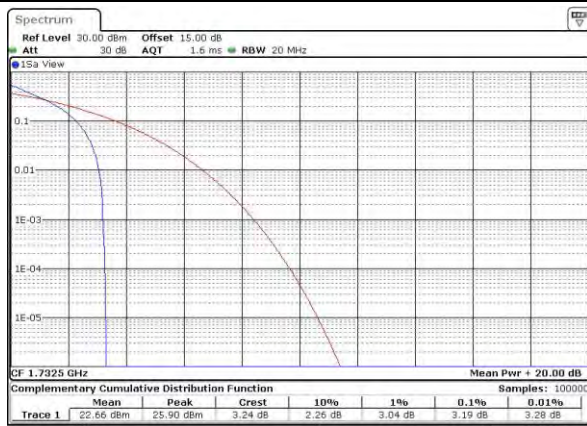
## Lowest Channel / 1RB



## Lowest Channel / Full RB



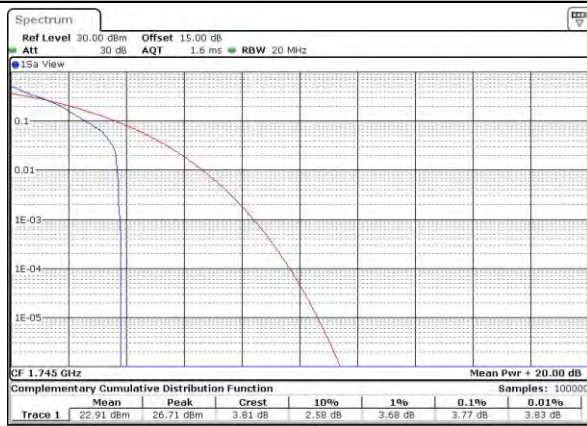
## Middle Channel / 1RB



## Middle Channel / Full RB



## Highest Channel / 1RB



## Highest Channel / Full RB





LTE Band 4 / 20MHz / 16QAM

Lowest Channel / 1RB



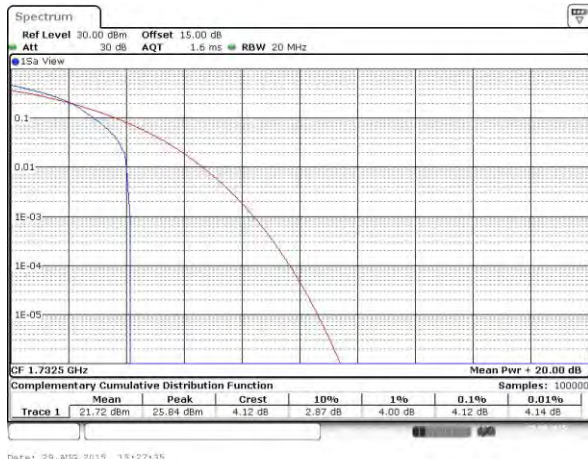
Date: 29.AUG.2015 13:25:23

Lowest Channel / Full RB



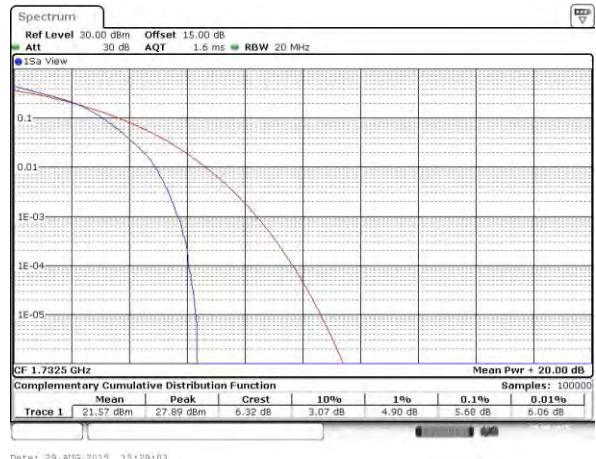
Date: 29.AUG.2015 13:26:02

Middle Channel / 1RB



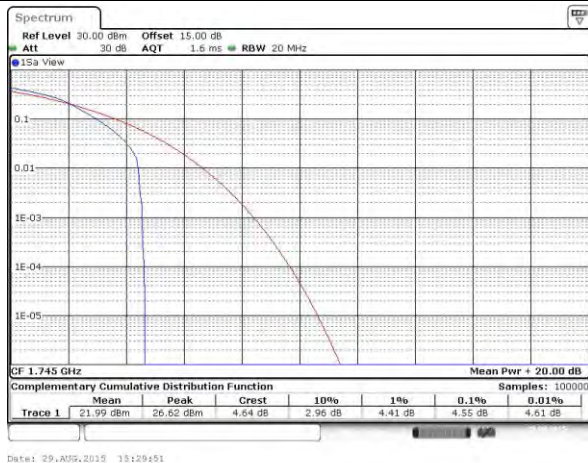
Date: 29.AUG.2015 13:27:35

Middle Channel / Full RB



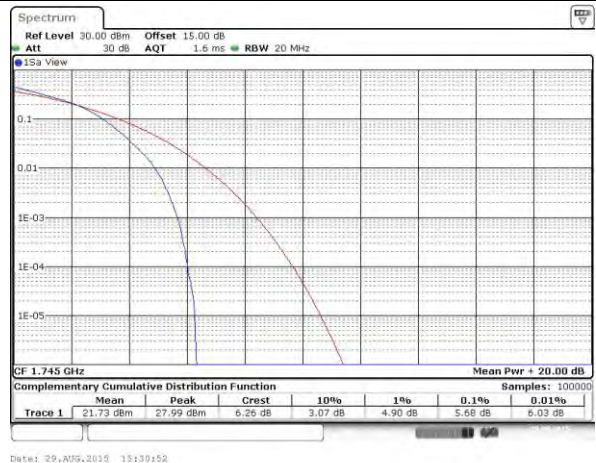
Date: 29.AUG.2015 13:28:03

Highest Channel / 1RB



Date: 29.AUG.2015 13:29:51

Highest Channel / Full RB



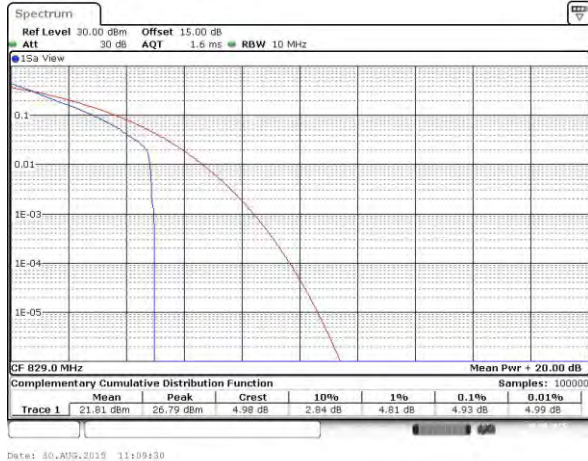
Date: 29.AUG.2015 13:30:52



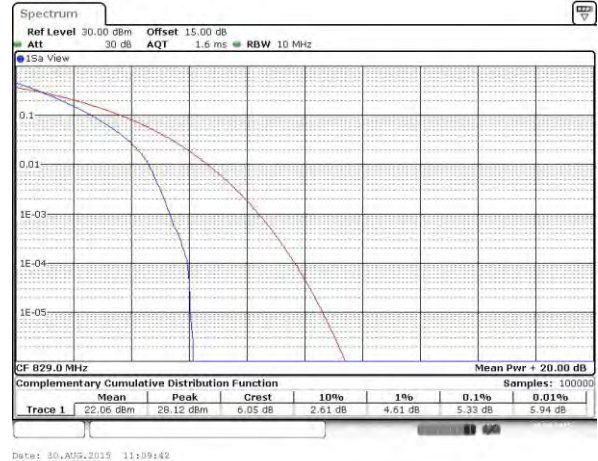


## LTE Band 5 / 10MHz / QPSK

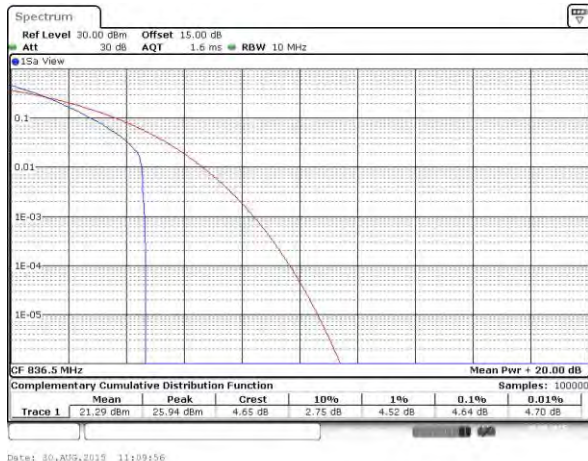
## Lowest Channel / 1RB



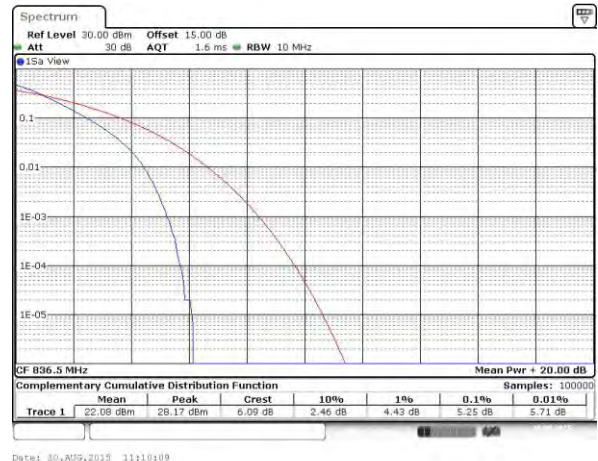
## Lowest Channel / Full RB



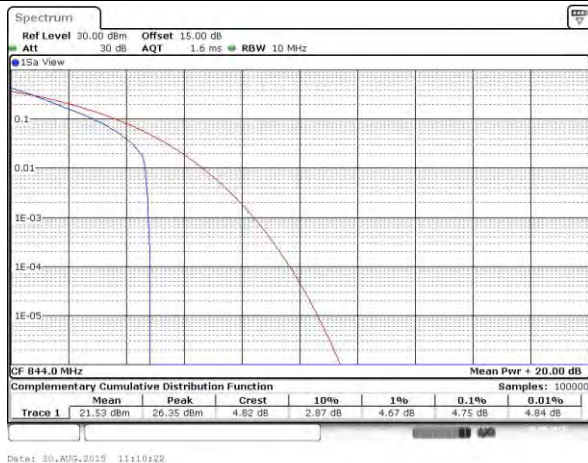
## Middle Channel / 1RB



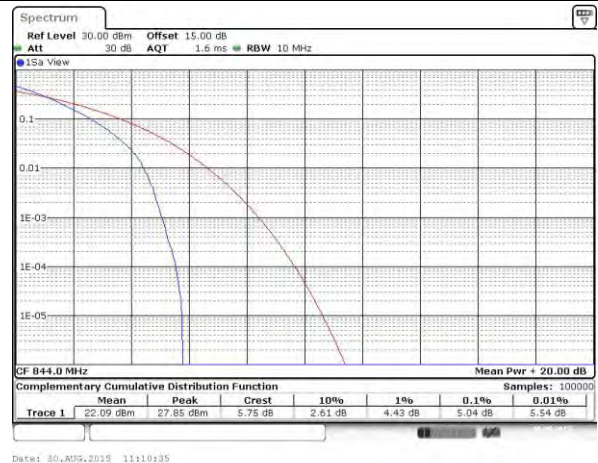
## Middle Channel / Full RB



## Highest Channel / 1RB



## Highest Channel / Full RB



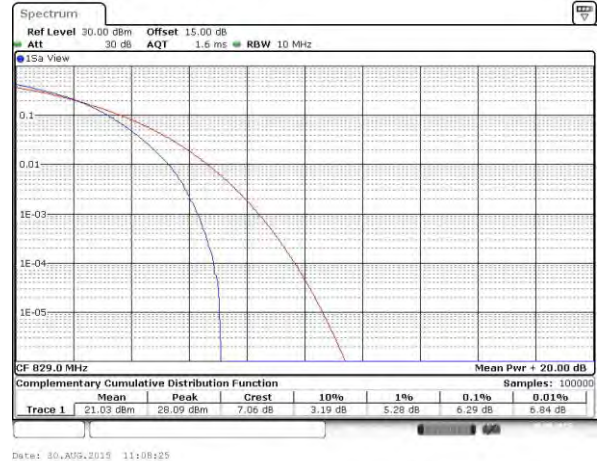


LTE Band 5 / 10MHz / 16QAM

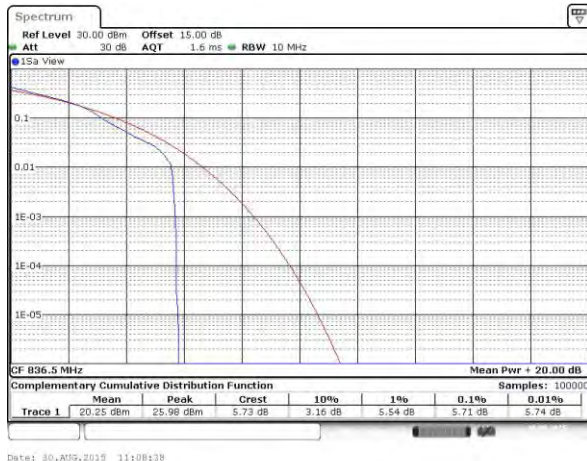
Lowest Channel / 1RB



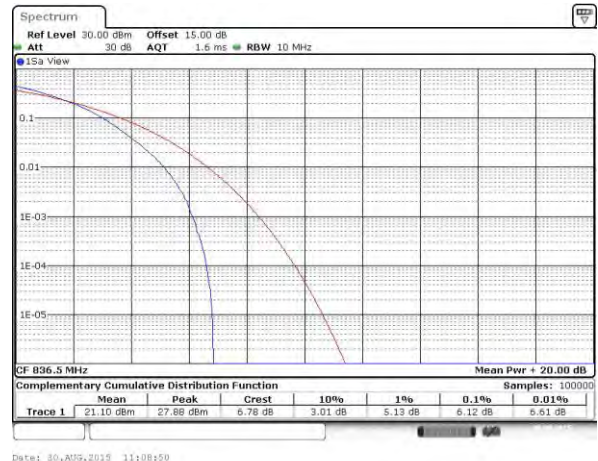
Lowest Channel / Full RB



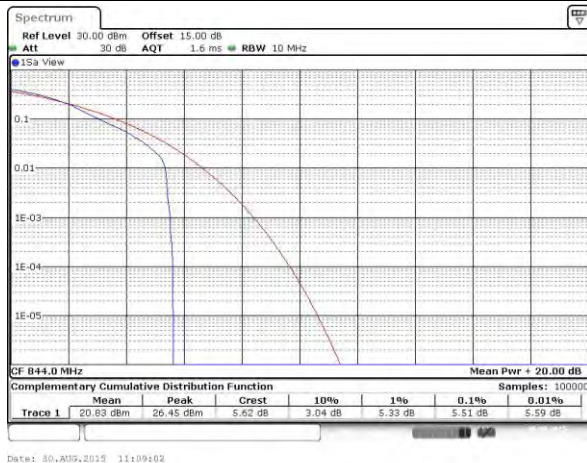
Middle Channel / 1RB



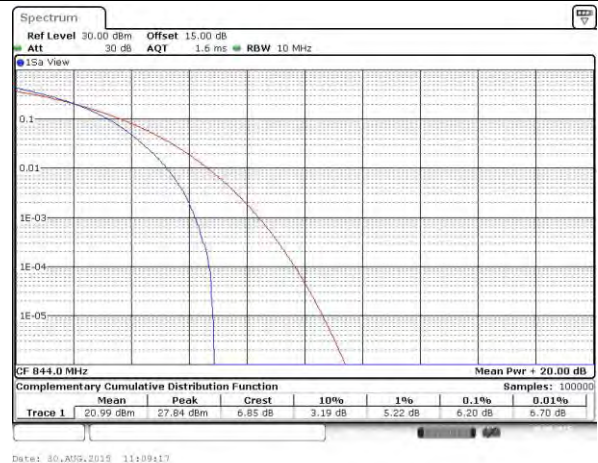
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB





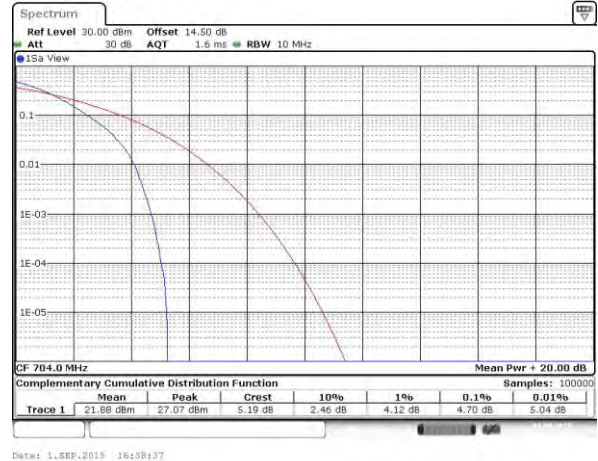


## LTE Band 12 / 10MHz / QPSK

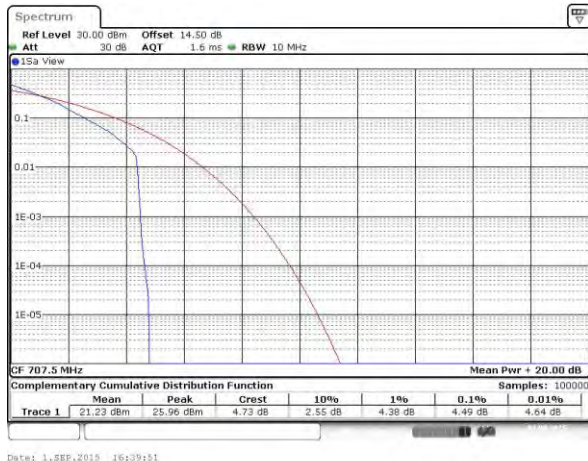
## Lowest Channel / 1RB



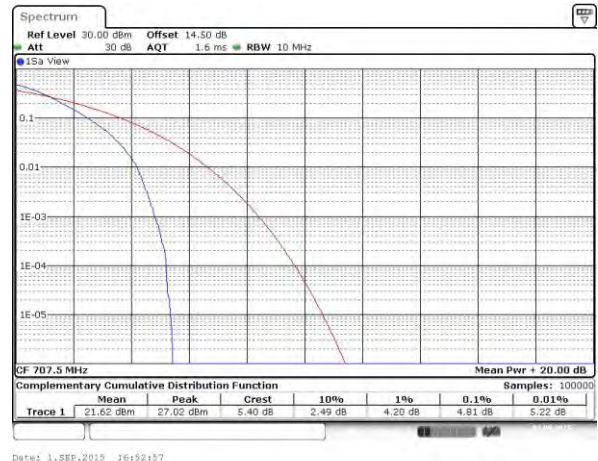
## Lowest Channel / Full RB



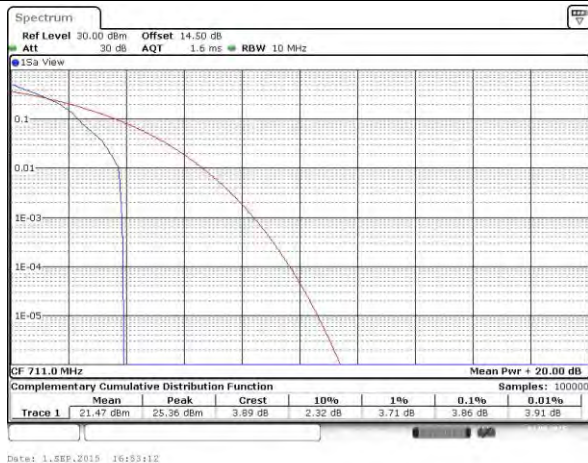
## Middle Channel / 1RB



## Middle Channel / Full RB



## Highest Channel / 1RB



## Highest Channel / Full RB





LTE Band 12 / 10MHz / 16QAM

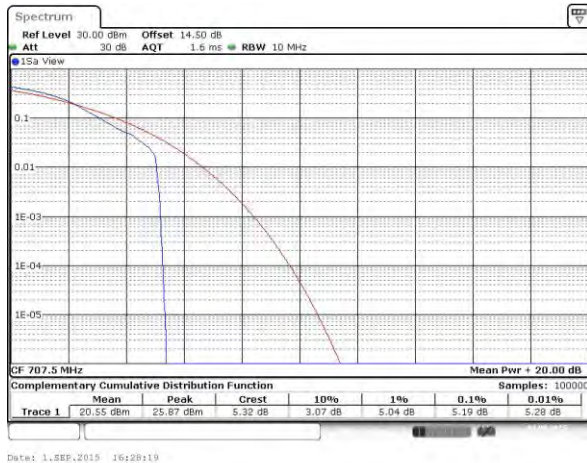
Lowest Channel / 1RB



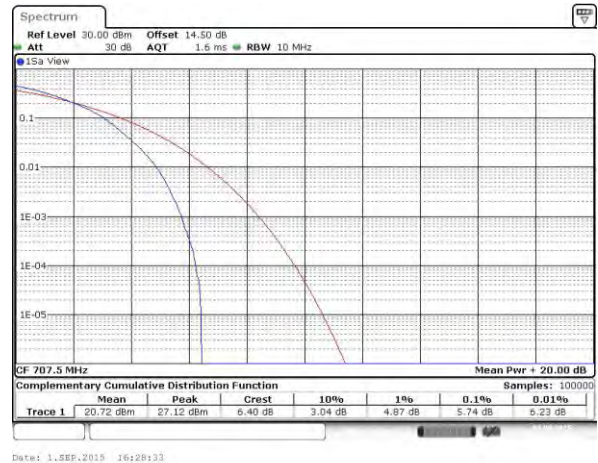
Lowest Channel / Full RB



Middle Channel / 1RB



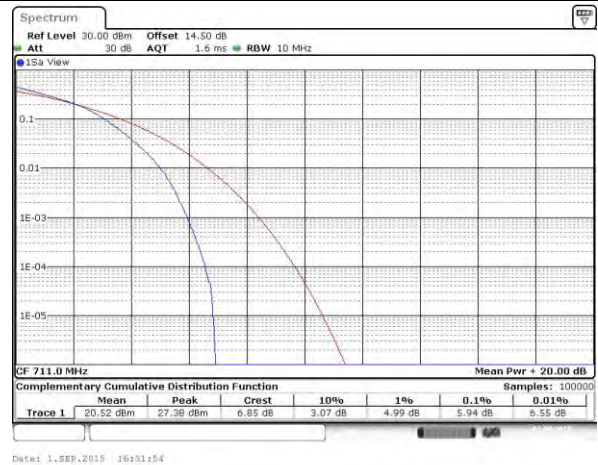
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB

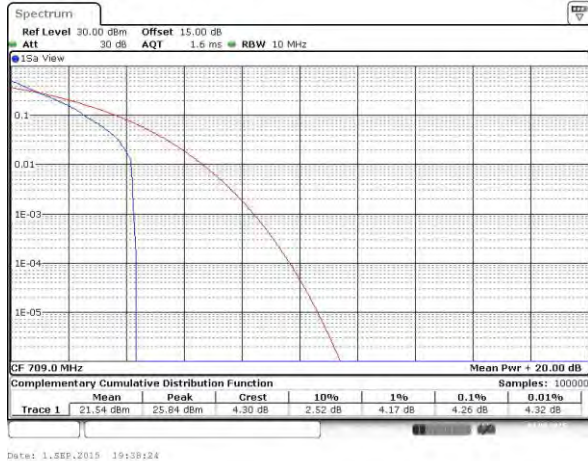




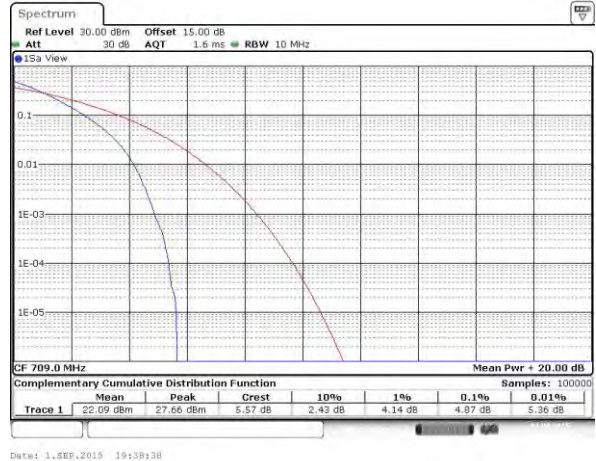


## LTE Band 17 / 10MHz / QPSK

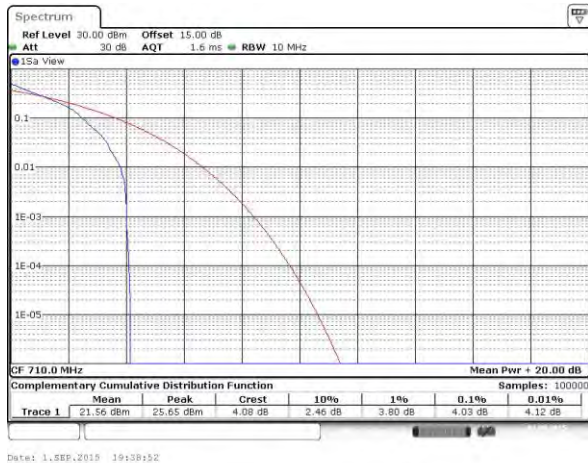
## Lowest Channel / 1RB



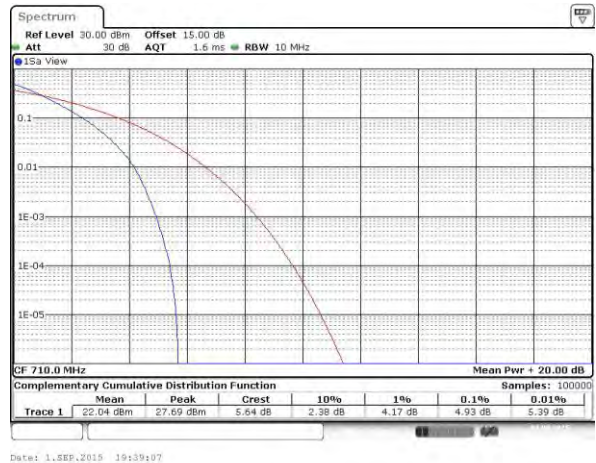
## Lowest Channel / Full RB



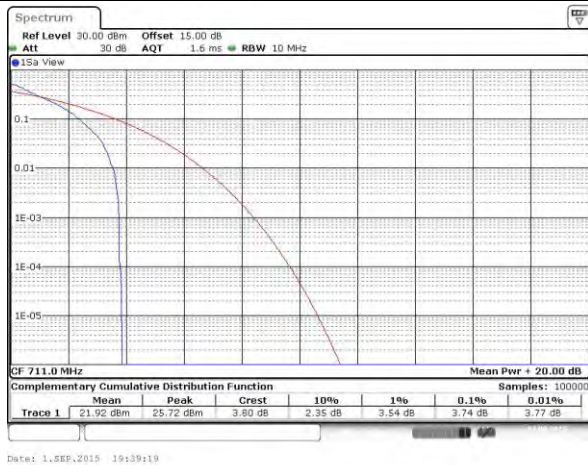
## Middle Channel/ 1RB



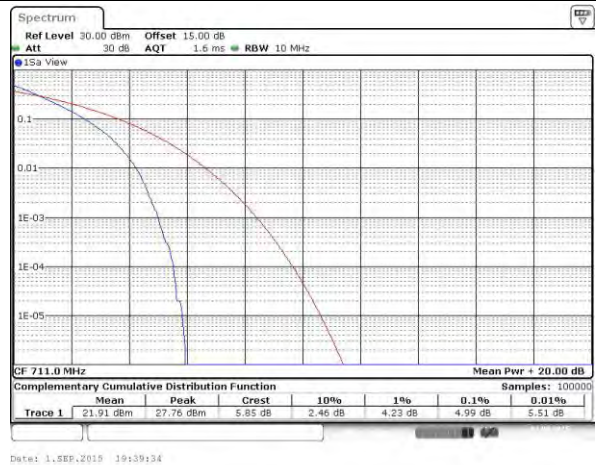
## Middle Channel / Full RB



## Highest Channel/ 1RB



## Highest Channel / Full RB



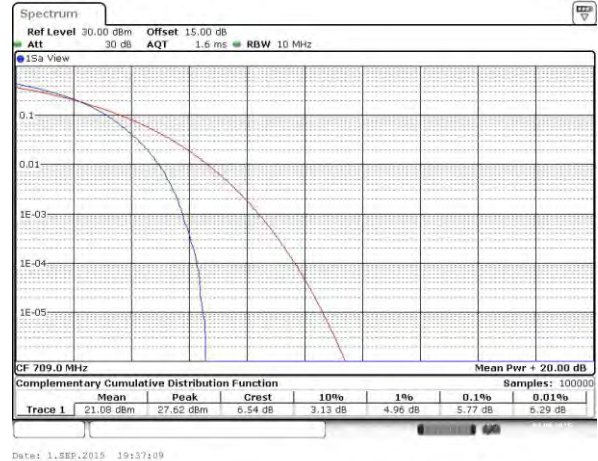


## LTE Band 17 / 10MHz / 16QAM

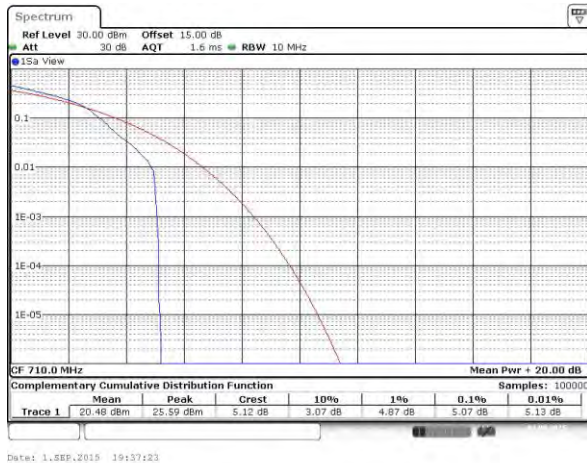
## Lowest Channel / 1RB



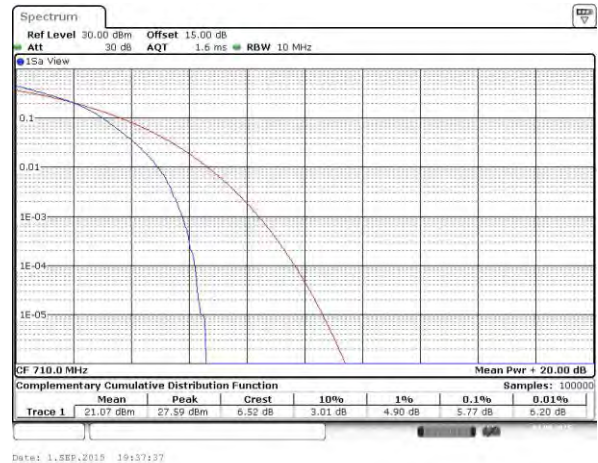
## Lowest Channel / Full RB



## Middle Channel/ 1RB



## Middle Channel / Full RB



## Highest Channel/ 1RB



## Highest Channel / Full RB

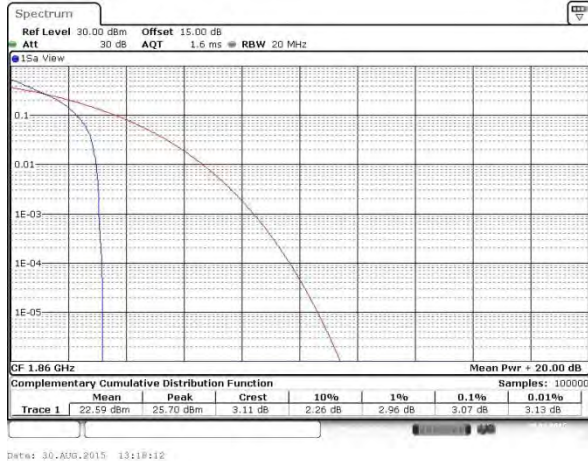




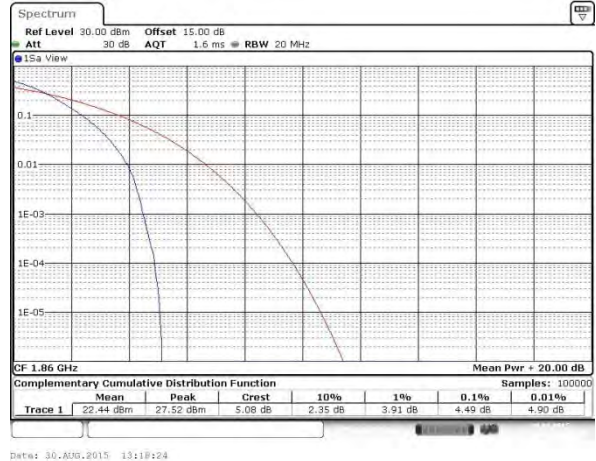


## LTE Band 25 / 20MHz / QPSK

## Lowest Channel / 1RB



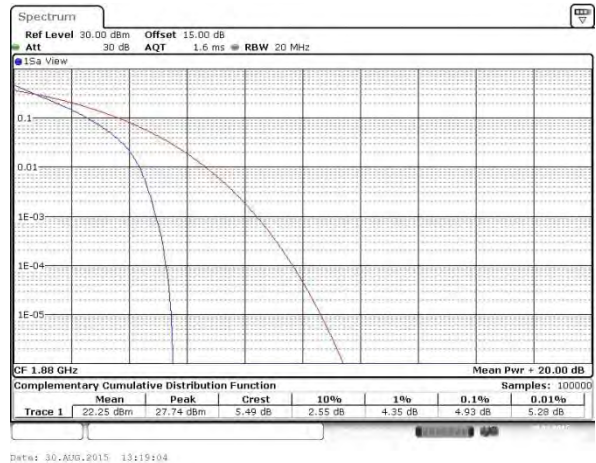
## Lowest Channel / Full RB



## Middle Channel / 1RB



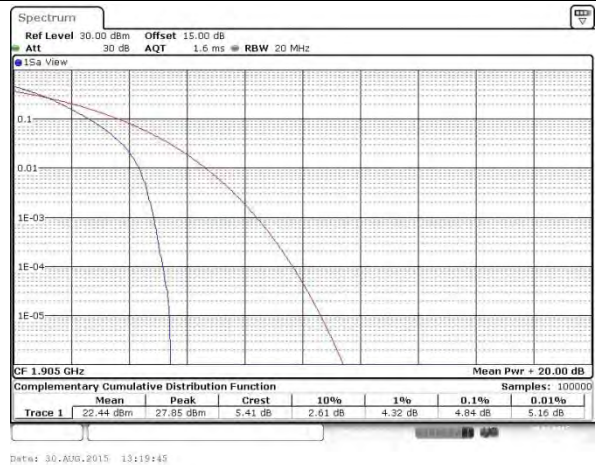
## Middle Channel / Full RB



## Highest Channel / 1RB



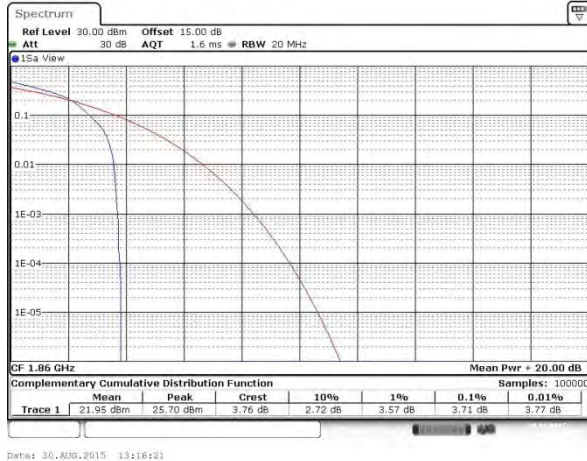
## Highest Channel / Full RB



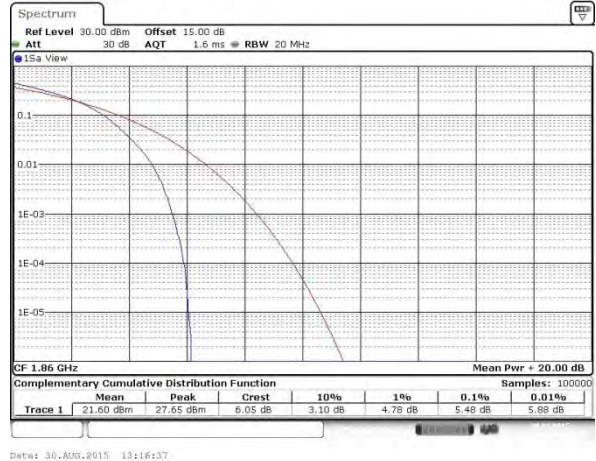


LTE Band 25 / 20MHz / 16QAM

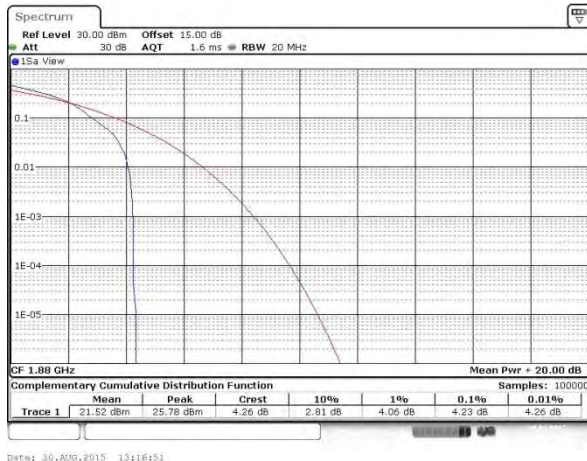
Lowest Channel / 1RB



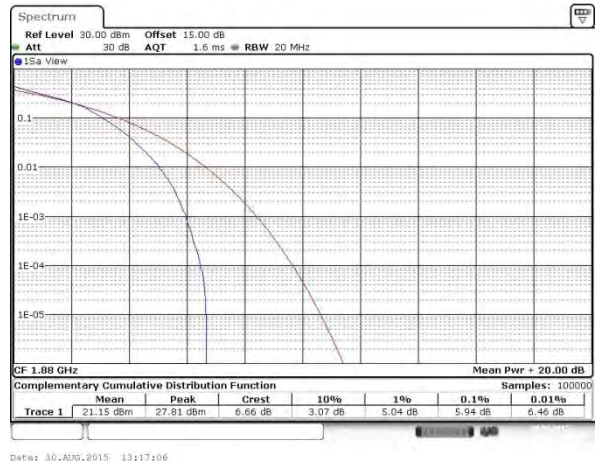
Lowest Channel / Full RB



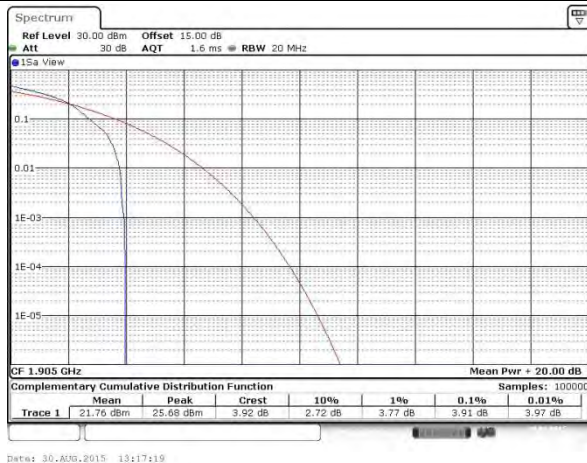
Middle Channel / 1RB



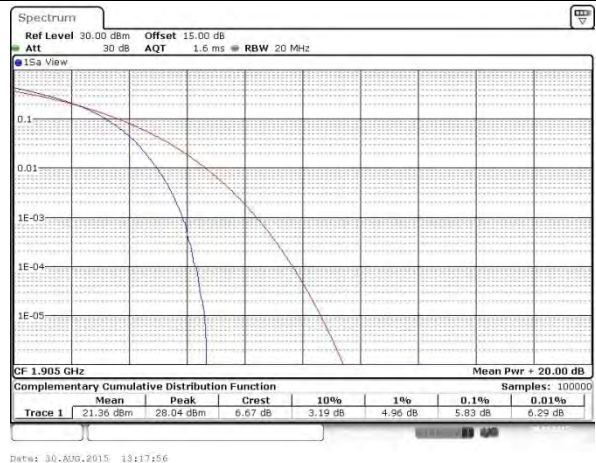
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB

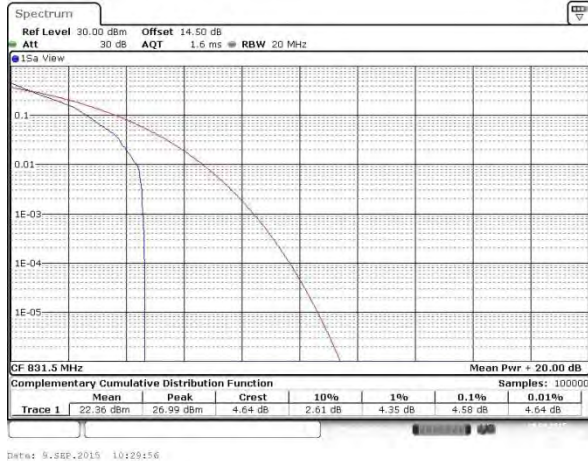




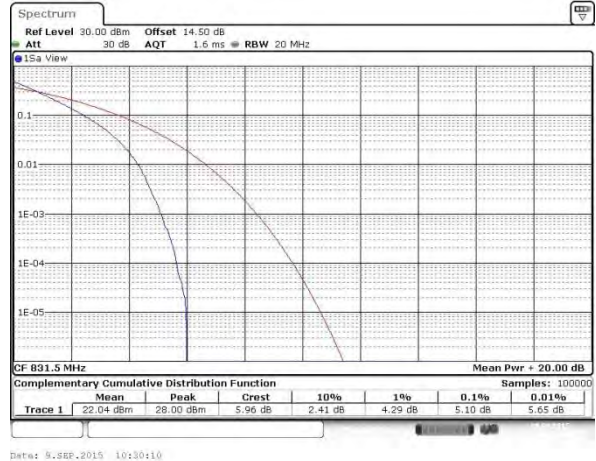


LTE Band 26 / 15MHz / QPSK

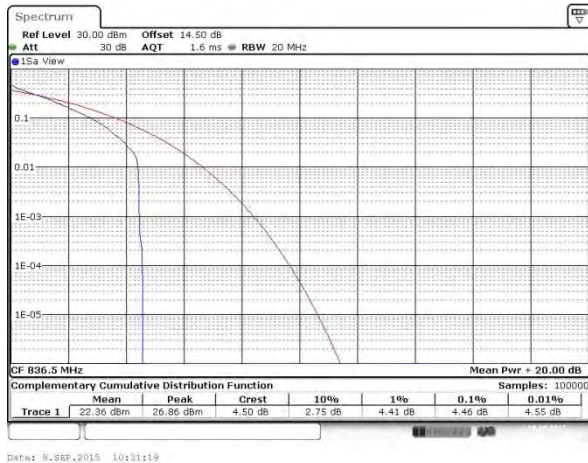
Lowest Channel / 1RB



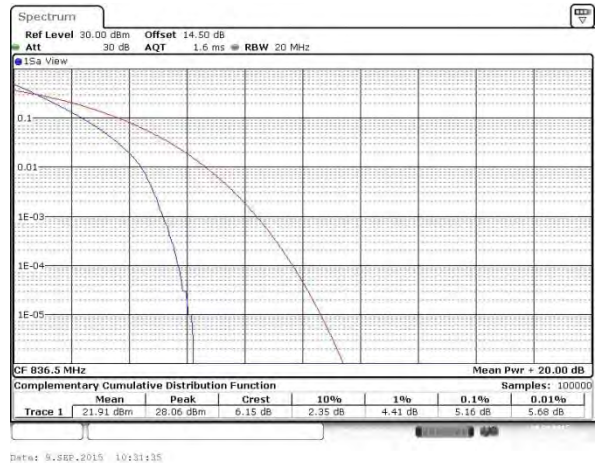
Lowest Channel / Full RB



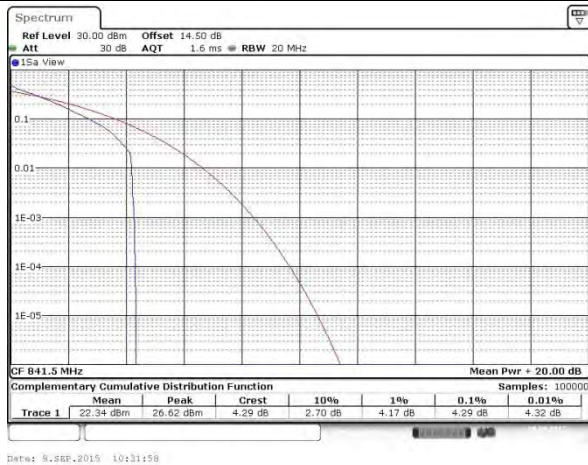
Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB

