



# FCC RF Test Report

**APPLICANT** : Hewlett-Packard Company  
**EQUIPMENT** : Tablet PC  
**BRAND NAME** : HP  
**MODEL NAME** : HSTNN-I19C  
**FCC ID** : B94HNI19CFX468  
**STANDARD** : 47 CFR Part 2, 22(H), 24(E), 27  
**CLASSIFICATION** : PCS Licensed Transmitter (PCB)

The product was received on Apr. 24, 2014 and testing was completed on Jul. 14, 2014. We, SPORTON INTERNATIONAL 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 INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager



## **SPORTON INTERNATIONAL INC.**

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## SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	§2.1046	Conducted Output Power	Reporting Only	PASS	-
3.1	§22.913(a)(2)	Effective Radiated Power (Band 5)	ERP < 7 Watt	PASS	-
	§27.50(b)(10) §27.50(c)(10)	Effective Radiated Power (Band 13) (Band 17)	ERP < 3 Watt	PASS	-
	§24.232(c)	Equivalent Isotropic Radiated Power (Band 2)(Band 25)	EIRP < 2Watt	PASS	-
	§27.50(d)(4)	Equivalent Isotropic Radiated Power (Band 4)	EIRP < 1Watt	PASS	-
3.2	§24.232(d)	Peak-to-Average Ratio	<13 dB	PASS	-
3.3	§2.1049 §22.917(b) §24.238(b) §27.53(h)(3)	Occupied Bandwidth	Reporting Only	PASS	-
3.4	§2.1051 §22.917(a) §24.238(a) §27.53(c)(2) §27.53(c)(4) §27.53(g) §27.53(h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 13) (Band 17) (Band 25)	< 43+10log <sub>10</sub> (P[Watt])	PASS	-



Report Section	FCC Rule	Description	Limit	Result	Remark
3.5	§2.1051 §22.917(a) §24.238(a) §27.53(c)(2) §27.53(f) §27.53(g) §27.53(h)	Conducted Spurious Emission (Band 2) (Band 4) (Band 5) (Band 13) (Band 17) (Band 25)	$< 43+10\log_{10}(P[\text{Watts}])$	PASS	-
3.6	§2.1053 §22.917(a) §24.238(a) §27.53(c)(2) §27.53(c)(4) §27.53(f) §27.53(g) §27.53(h)	Radiated Spurious Emission (Band 2) (Band 4) (Band 5) (Band 13) (Band 17) (Band 25)	$< 43+10\log_{10}(P[\text{Watts}])$	PASS	Under limit 2.87 dB at 1560.000 MHz
3.7	§2.1055 §22.355 §24.235 §27.54	Frequency Stability Temperature & Voltage	$< 2.5 \text{ ppm}$	PASS	



# 1 General Description

## 1.1 Applicant

Hewlett-Packard Company  
3000 Hanover Street, Palo Alto, California 94304, USA

## 1.2 Manufacturer

Inventec Corporation  
Inventec Building, No.66 Hou-Kang Street Shilin District, Taipei 11170, Taiwan

## 1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Tablet PC
Brand Name	HP
Model Name	HSTNN-I19C
FCC ID	B94HNI19CFX468
EUT supports Radios application	CDMA/EV-DO/GSM/EGPRS/WCDMA/HSPA/LTE
EUT Stage	Identical Prototype

**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.



### 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 13 : 779.5 MHz ~ 784.5 MHz LTE Band 17 : 706.5 MHz ~ 713.5 MHz LTE Band 25 : 1850.7MHz ~ 1914.3 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 13 : 748.5 MHz ~ 753.5 MHz LTE Band 17 : 736.5 MHz ~ 743.5 MHz LTE Band 25 : 1930.7MHz ~ 1994.3 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 13 : 5MHz / 10MHz LTE Band 17 : 5MHz / 10MHz LTE Band 25 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz
<b>Maximum Output Power to Antenna</b>	LTE Band 2 : 23.79 dBm LTE Band 4 : 23.60 dBm LTE Band 5 : 23.80 dBm LTE Band 13 : 23.64 dBm LTE Band 17 : 23.75 dBm LTE Band 25 : 23.55 dBm
<b>Antenna Type</b>	PIFA Antenna
<b>Antenna Gain</b>	LTE Band 2 : -0.59 dBi LTE Band 4 : -1.33 dBi LTE Band 5 : -3.60 dBi LTE Band 13 : -2.08 dBi LTE Band 17 : -2.64 dBi LTE Band 25 : -0.59 dBi
<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 Maximum ERP/EIRP Power, Frequency Tolerance, and Emission Designator

FCC Rule	System	Type of Modulation	BW	Emission Designator	Frequency Tolerance (ppm)	Maximum ERP/EIRP
Part 22	LTE Band 5	QPSK	1.4 MHz	1M10G7D	-	0.06 W
Part 22	LTE Band 5	16QAM	1.4 MHz	1M10D7W	-	0.05 W
Part 22	LTE Band 5	QPSK	3 MHz	2M73G7D	-	0.06 W
Part 22	LTE Band 5	16QAM	3 MHz	2M73D7W	-	0.05 W
Part 22	LTE Band 5	QPSK	5 MHz	4M50G7D	-	0.06 W
Part 22	LTE Band 5	16QAM	5 MHz	4M50D7W	-	0.05 W
Part 22	LTE Band 5	QPSK	10 MHz	9M10G7D	0.007 ppm	0.06 W
Part 22	LTE Band 5	16QAM	10 MHz	9M04D7W	-	0.05 W



FCC Rule	System	Type of Modulation	BW	Emission Designator	Frequency Tolerance (ppm)	Maximum ERP/EIRP
Part 24	LTE Band 2	QPSK	1.4 MHz	1M10G7D	-	0.21 W
Part 24	LTE Band 2	16QAM	1.4 MHz	1M10D7W	-	0.17 W
Part 24	LTE Band 2	QPSK	3 MHz	2M72G7D	-	0.21 W
Part 24	LTE Band 2	16QAM	3 MHz	2M72D7W	-	0.17 W
Part 24	LTE Band 2	QPSK	5 MHz	4M51G7D	-	0.21 W
Part 24	LTE Band 2	16QAM	5 MHz	4M50D7W	-	0.17 W
Part 24	LTE Band 2	QPSK	10 MHz	9M08G7D	0.018 ppm	0.21 W
Part 24	LTE Band 2	16QAM	10 MHz	9M04D7W	-	0.16 W
Part 24	LTE Band 2	QPSK	15 MHz	13M5G7D	-	0.21 W
Part 24	LTE Band 2	16QAM	15 MHz	13M5D7W	-	0.17 W
Part 24	LTE Band 2	QPSK	20 MHz	18M5G7D	-	0.21 W
Part 24	LTE Band 2	16QAM	20 MHz	18M5D7W	-	0.17 W
Part 24	LTE Band 25	QPSK	1.4 MHz	1M10G7D	-	0.19 W
Part 24	LTE Band 25	16QAM	1.4 MHz	1M10D7W	-	0.17 W
Part 24	LTE Band 25	QPSK	3 MHz	2M73G7D	-	0.19 W
Part 24	LTE Band 25	16QAM	3 MHz	2M74D7W	-	0.17 W
Part 24	LTE Band 25	QPSK	5 MHz	4M51G7D	-	0.18 W
Part 24	LTE Band 25	16QAM	5 MHz	4M51D7W	-	0.17 W
Part 24	LTE Band 25	QPSK	10 MHz	9M08G7D	0.018 ppm	0.20 W
Part 24	LTE Band 25	16QAM	10 MHz	9M04D7W	-	0.17 W
Part 24	LTE Band 25	QPSK	15 MHz	13M5G7D	-	0.19 W
Part 24	LTE Band 25	16QAM	15 MHz	13M5D7W	-	0.17 W
Part 24	LTE Band 25	QPSK	20 MHz	18M5G7D	-	0.20 W
Part 24	LTE Band 25	16QAM	20 MHz	18M5D7W	-	0.17 W



FCC Rule	System	Type of Modulation	BW	Emission Designator	Frequency Tolerance (ppm)	Maximum ERP/EIRP
Part 27	LTE Band 4	QPSK	1.4 MHz	1M10G7D	-	0.16 W
Part 27	LTE Band 4	16QAM	1.4 MHz	1M11D7W	-	0.13 W
Part 27	LTE Band 4	QPSK	3 MHz	2M74G7D	-	0.17 W
Part 27	LTE Band 4	16QAM	3 MHz	2M73D7W	-	0.15 W
Part 27	LTE Band 4	QPSK	5MHz	4M51G7D	-	0.17 W
Part 27	LTE Band 4	16QAM	5MHz	4M50D7W	-	0.15 W
Part 27	LTE Band 4	QPSK	10MHz	9M08G7D	0.005 ppm	0.17 W
Part 27	LTE Band 4	16QAM	10MHz	9M04D7W	-	0.15 W
Part 27	LTE Band 4	QPSK	15MHz	13M5G7D	-	0.17 W
Part 27	LTE Band 4	16QAM	15MHz	13M5D7W	-	0.14 W
Part 27	LTE Band 4	QPSK	20MHz	18M6G7D	-	0.17 W
Part 27	LTE Band 4	16QAM	20MHz	18M6D7W	-	0.15 W
Part 27	LTE Band 13	QPSK	5MHz	4M51G7D	-	0.09 W
Part 27	LTE Band 13	16QAM	5MHz	4M51D7W	-	0.07 W
Part 27	LTE Band 13	QPSK	10MHz	9M10G7D	0.004 ppm	0.09 W
Part 27	LTE Band 13	16QAM	10MHz	9M08D7W	-	0.07 W
Part 27	LTE Band 17	QPSK	5MHz	4M51G7D	-	0.08 W
Part 27	LTE Band 17	16QAM	5MHz	4M50D7W	-	0.07 W
Part 27	LTE Band 17	QPSK	10MHz	9M06G7D	0.009 ppm	0.08 W
Part 27	LTE Band 17	16QAM	10MHz	9M00D7W	-	0.07 W



### 1.7 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1022 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

<b>Test Site</b>	SPORTON INTERNATIONAL INC.	
<b>Test Site Location</b>	No. 52, Hwa Ya 1 <sup>st</sup> Rd., Hwa Ya Technology Park, Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL: +886-3-327-3456 FAX: +886-3-328-4978	
<b>Test Site No.</b>	<b>Sporton Site No.</b>	
	TH02-HY	03CH07-HY

### 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
- ♦ ANSI / TIA / EIA-603-C-2004
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v02r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01

**Remark:** All test items were verified and recorded according to the standards and without any deviation during the test.



## 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 v02r01 with maximum output power.

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

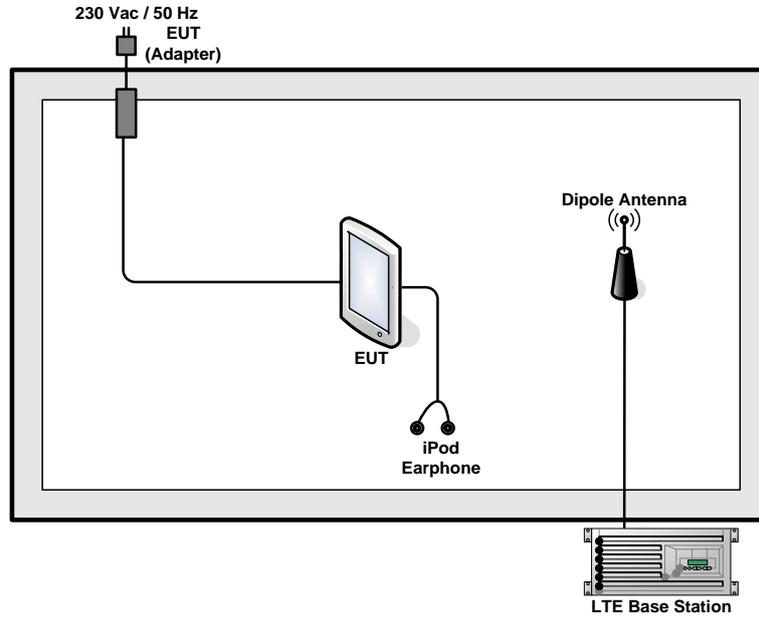
Test Items	Band	Bandwidth (MHz)						Modulation		RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
Max. Output Power	2	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	4	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	5	Y	Y	Y	Y	-	-	Y	Y	Y	Y	Y	Y	Y	Y
	7	-	-	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	13	-	-	Y	Y	-	-	Y	Y	Y	Y	Y	Y	Y	Y
	17	-	-	Y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



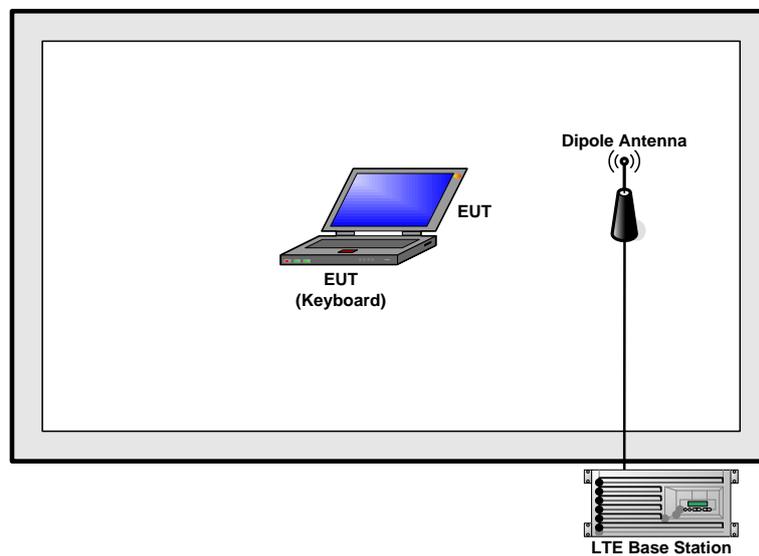
Test Items	Band	Bandwidth (MHz)						Modulation		RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
Conducted Spurious Emission	2	√	√	√	√	√	√	√	√	√			√	√	√
	4	√	√	√	√	√	√	√	√	√			√	√	√
	5	√	√	√	√	-	-	√	√	√			√	√	√
	7	-	-	√	√	√	√	√	√	√			√	√	√
	13	-	-	√	√	-	-	√	√	√			√	√	√
	17	-	-	√	√	-	-	√	√	√			√	√	√
Frequency Stability	2				√			√				√		√	
	4				√			√				√		√	
	5				√	-	-	√				√		√	
	7	-	-		√			√				√		√	
	13	-	-		√	-	-	√				√		√	
	17	-	-		√	-	-	√				√		√	
E.R.P./ E.I.R.P.	2	√	√	√	√	√	√	√	√	√			√	√	√
	4	√	√	√	√	√	√	√	√	√			√	√	√
	5	√	√	√	√	-	-	√	√	√			√	√	√
	7	-	-	√	√	√	√	√	√	√			√	√	√
	13	-	-	√	√	-	-	√	√	√			√	√	√
	17	-	-	√	√	-	-	√	√	√			√	√	√
Radiated Spurious Emission	2	√	√	√	√	√	√	√		√				√	
	4	√	√	√	√	√	√	√		√				√	
	5	√	√	√	√	-	-	√		√				√	
	7	-	-	√	√	√	√	√		√				√	
	13	-	-	√	√	-	-	√		√				√	
	17	-	-	√	√	-	-	√		√				√	
Note	<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

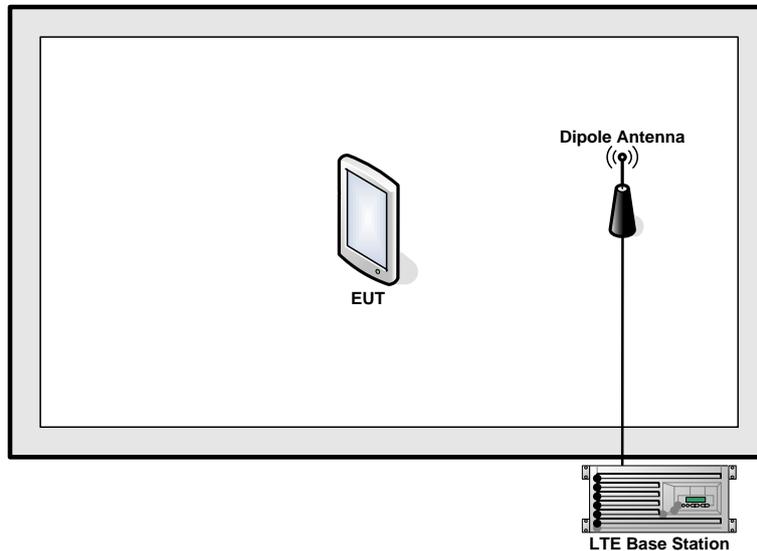
<For LTE Band 2 / 17 / 25 Mode>



<For LTE Band 4 Mode>



<For LTE Band 5 / 13 Mode>



### 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.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 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 4.2 dB and 10dB attenuator.

Example :

*Offset(dB) = RF cable loss(dB) + attenuator factor(dB).*

$$= 4.2 + 10 = 14.2 \text{ (dB)}$$

### 3 Test Result

#### 3.1 Conducted Output Power Measurement and ERP/EIRP Measurement

##### 3.1.1 Description of the Conducted Output Power Measurement and ERP/EIRP 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.

The ERP of mobile transmitters must not exceed 7 Watts for LTE Band 5.

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 12, Band 13 and Band 17.

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 2 and Band 25 and Band 7.

The EIRP of mobile transmitters must not exceed 1 Watts for LTE Band 4.

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$ ,  $ERP = EIRP - 2.15$ , where

$P_T$  = transmitter output power in dBm

$G_T$  = gain of the transmitting antenna in dBi

$L_C$  = signal attenuation in the connecting cable between the transmitter and antenna in dB

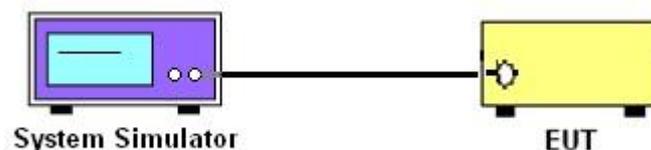
##### 3.1.2 Measuring Instruments

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

##### 3.1.3 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.

##### 3.1.4 Test Setup





3.1.5 Test Result of Conducted Output Power

<LTE Band 5 Conducted Power>

BW [MHz]	Modulation	RB Size	RB Offset	Power (dBm) Low Ch. / Freq.	Power (dBm) Middle Ch. / Freq.	Power (dBm) High Ch. / Freq.
<b>Channel</b>				<b>20450</b>	<b>20525</b>	<b>20600</b>
<b>Frequency (MHz)</b>				<b>829</b>	<b>836.5</b>	<b>844</b>
10	QPSK	1	0	23.80	23.72	23.60
10	QPSK	1	24	23.65	23.40	23.52
10	QPSK	1	49	23.76	23.55	23.45
10	QPSK	25	0	22.78	22.55	22.50
10	QPSK	25	12	22.69	22.65	22.65
10	QPSK	25	24	22.73	22.75	22.62
10	QPSK	50	0	22.71	22.64	22.63
10	16QAM	1	0	22.86	22.75	22.66
10	16QAM	1	24	22.91	22.99	22.89
10	16QAM	1	49	22.98	22.95	22.91
10	16QAM	25	0	21.77	21.49	21.47
10	16QAM	25	12	21.85	21.67	21.56
10	16QAM	25	24	21.95	21.82	21.76
10	16QAM	50	0	21.69	21.45	21.51
<b>Channel</b>				<b>20425</b>	<b>20525</b>	<b>20625</b>
<b>Frequency (MHz)</b>				<b>826.5</b>	<b>836.5</b>	<b>846.5</b>
5	QPSK	1	0	23.44	23.37	23.24
5	QPSK	1	12	23.53	23.40	23.63
5	QPSK	1	24	23.65	23.53	23.52
5	QPSK	12	0	22.52	22.62	22.71
5	QPSK	12	6	22.73	22.85	22.65
5	QPSK	12	11	22.57	22.73	22.62
5	QPSK	25	0	22.69	22.68	22.46
5	16QAM	1	0	22.60	22.77	22.83
5	16QAM	1	12	22.90	22.92	22.97
5	16QAM	1	24	22.94	22.96	22.94
5	16QAM	12	0	21.61	21.56	21.52
5	16QAM	12	6	21.72	21.63	21.84
5	16QAM	12	11	21.71	21.83	21.69
5	16QAM	25	0	21.57	21.60	21.68



BW [MHz]	Modulation	RB Size	RB Offset	Power (dBm) Low Ch. / Freq.	Power (dBm) Middle Ch. / Freq.	Power (dBm) High Ch. / Freq.
<b>Channel</b>				<b>20415</b>	<b>20525</b>	<b>20635</b>
<b>Frequency (MHz)</b>				<b>825.5</b>	<b>836.5</b>	<b>847.5</b>
3	QPSK	1	0	23.47	23.47	23.39
3	QPSK	1	7	23.58	23.36	23.57
3	QPSK	1	14	23.75	23.56	23.78
3	QPSK	8	0	22.67	22.68	22.74
3	QPSK	8	4	22.86	22.60	22.74
3	QPSK	8	7	22.52	22.55	22.61
3	QPSK	15	0	22.61	22.53	22.48
3	16QAM	1	0	22.59	22.74	22.75
3	16QAM	1	7	22.81	22.82	22.98
3	16QAM	1	14	22.92	22.90	22.94
3	16QAM	8	0	21.51	21.70	21.61
3	16QAM	8	4	21.85	21.80	21.84
3	16QAM	8	7	21.72	21.87	21.83
3	16QAM	15	0	21.39	21.42	21.67
<b>Channel</b>				<b>20407</b>	<b>20525</b>	<b>20643</b>
<b>Frequency (MHz)</b>				<b>824.7</b>	<b>836.5</b>	<b>848.3</b>
1.4	QPSK	1	0	23.47	23.48	23.22
1.4	QPSK	1	2	23.46	23.54	23.57
1.4	QPSK	1	5	23.57	23.55	23.58
1.4	QPSK	3	0	22.97	22.99	23.00
1.4	QPSK	3	1	22.91	23.04	22.95
1.4	QPSK	3	2	22.88	22.94	22.91
1.4	QPSK	6	0	22.59	22.55	22.65
1.4	16QAM	1	0	22.71	22.64	22.56
1.4	16QAM	1	2	23.00	22.80	22.81
1.4	16QAM	1	5	22.93	22.89	23.00
1.4	16QAM	3	0	21.97	21.97	21.88
1.4	16QAM	3	1	21.90	21.98	21.94
1.4	16QAM	3	2	21.96	22.14	21.98
1.4	16QAM	6	0	21.55	21.39	21.39



<LTE Band 2 Conducted Power>

BW [MHz]	Modulation	RB Size	RB Offset	Power (dBm) Low Ch. / Freq.	Power (dBm) Middle Ch. / Freq.	Power (dBm) High Ch. / Freq.
<b>Channel</b>				<b>18700</b>	<b>18900</b>	<b>19100</b>
<b>Frequency (MHz)</b>				<b>1860</b>	<b>1880</b>	<b>1900</b>
20	QPSK	1	0	23.78	23.79	23.30
20	QPSK	1	49	23.64	23.38	23.20
20	QPSK	1	99	23.69	23.32	23.22
20	QPSK	50	0	22.57	22.60	22.43
20	QPSK	50	24	22.56	22.43	22.40
20	QPSK	50	49	22.55	22.34	22.07
20	QPSK	100	0	22.39	22.40	22.06
20	16QAM	1	0	22.78	22.72	22.36
20	16QAM	1	49	22.47	22.71	22.25
20	16QAM	1	99	22.65	22.47	22.35
20	16QAM	50	0	21.35	21.23	21.12
20	16QAM	50	24	21.45	21.39	21.03
20	16QAM	50	49	21.23	21.32	21.09
20	16QAM	100	0	21.16	21.35	21.04
<b>Channel</b>				<b>18675</b>	<b>18900</b>	<b>19125</b>
<b>Frequency (MHz)</b>				<b>1857.5</b>	<b>1880</b>	<b>1902.5</b>
15	QPSK	1	0	23.69	23.78	23.45
15	QPSK	1	37	23.56	23.77	23.54
15	QPSK	1	74	23.22	23.56	23.19
15	QPSK	36	0	22.35	22.56	22.10
15	QPSK	36	18	22.33	22.50	22.20
15	QPSK	36	37	22.36	22.46	22.42
15	QPSK	75	0	22.21	22.40	22.08
15	16QAM	1	0	22.76	22.70	22.30
15	16QAM	1	37	22.58	22.69	22.29
15	16QAM	1	74	22.15	22.53	22.28
15	16QAM	36	0	21.36	21.51	21.07
15	16QAM	36	18	21.33	21.47	21.18
15	16QAM	36	37	21.23	21.48	21.30
15	16QAM	75	0	21.20	21.35	20.98



BW [MHz]	Modulation	RB Size	RB Offset	Power (dBm) Low Ch. / Freq.	Power (dBm) Middle Ch. / Freq.	Power (dBm) High Ch. / Freq.
<b>Channel</b>				<b>18650</b>	<b>18900</b>	<b>19150</b>
<b>Frequency (MHz)</b>				<b>1855</b>	<b>1880</b>	<b>1905</b>
10	QPSK	1	0	23.61	23.73	23.62
10	QPSK	1	24	23.57	23.72	23.61
10	QPSK	1	49	23.42	23.65	23.24
10	QPSK	25	0	22.47	22.69	22.29
10	QPSK	25	12	22.38	22.61	22.55
10	QPSK	25	24	22.33	22.64	22.55
10	QPSK	50	0	22.15	22.48	22.21
10	16QAM	1	0	22.76	22.71	22.60
10	16QAM	1	24	22.58	22.70	22.59
10	16QAM	1	49	22.38	22.70	22.27
10	16QAM	25	0	21.40	21.66	21.19
10	16QAM	25	12	21.41	21.59	21.50
10	16QAM	25	24	21.37	21.63	21.60
10	16QAM	50	0	21.13	21.46	21.14
<b>Channel</b>				<b>18625</b>	<b>18900</b>	<b>19175</b>
<b>Frequency (MHz)</b>				<b>1852.5</b>	<b>1880</b>	<b>1907.5</b>
5	QPSK	1	0	23.74	23.68	23.77
5	QPSK	1	12	23.66	23.78	23.70
5	QPSK	1	24	23.63	23.69	23.46
5	QPSK	12	0	22.70	22.87	22.86
5	QPSK	12	6	22.60	22.75	22.73
5	QPSK	12	11	22.57	22.81	22.61
5	QPSK	25	0	22.46	22.63	22.50
5	16QAM	1	0	22.71	22.84	22.79
5	16QAM	1	12	22.68	22.78	22.75
5	16QAM	1	24	22.55	22.80	22.38
5	16QAM	12	0	21.72	21.86	21.83
5	16QAM	12	6	21.72	21.87	21.76
5	16QAM	12	11	21.65	21.89	21.68
5	16QAM	25	0	21.49	21.65	21.49



BW [MHz]	Modulation	RB Size	RB Offset	Power (dBm) Low Ch. / Freq.	Power (dBm) Middle Ch. / Freq.	Power (dBm) High Ch. / Freq.
<b>Channel</b>				<b>18615</b>	<b>18900</b>	<b>19185</b>
<b>Frequency (MHz)</b>				<b>1851.5</b>	<b>1880</b>	<b>1908.5</b>
3	QPSK	1	0	23.74	23.65	23.72
3	QPSK	1	7	23.72	23.77	23.54
3	QPSK	1	14	23.61	23.78	23.35
3	QPSK	8	0	22.81	22.83	22.76
3	QPSK	8	4	22.68	22.87	22.57
3	QPSK	8	7	22.67	22.87	22.45
3	QPSK	15	0	22.69	22.82	22.52
3	16QAM	1	0	22.76	22.87	22.77
3	16QAM	1	7	22.68	22.80	22.60
3	16QAM	1	14	22.59	22.77	22.41
3	16QAM	8	0	21.75	21.77	21.68
3	16QAM	8	4	21.71	21.81	21.56
3	16QAM	8	7	21.71	21.86	21.42
3	16QAM	15	0	21.71	21.83	21.53
<b>Channel</b>				<b>18607</b>	<b>18900</b>	<b>19193</b>
<b>Frequency (MHz)</b>				<b>1850.7</b>	<b>1880</b>	<b>1909.3</b>
1.4	QPSK	1	0	23.76	23.69	23.42
1.4	QPSK	1	2	23.75	23.75	23.31
1.4	QPSK	1	5	23.75	23.73	23.34
1.4	QPSK	3	0	23.75	23.75	23.36
1.4	QPSK	3	1	23.74	23.77	23.31
1.4	QPSK	3	2	23.73	23.68	23.36
1.4	QPSK	6	0	22.78	22.87	22.45
1.4	16QAM	1	0	22.80	22.85	22.43
1.4	16QAM	1	2	22.77	22.81	22.37
1.4	16QAM	1	5	22.72	22.82	22.45
1.4	16QAM	3	0	22.79	22.84	22.42
1.4	16QAM	3	1	22.79	22.84	22.42
1.4	16QAM	3	2	22.77	22.83	22.47
1.4	16QAM	6	0	21.86	21.92	21.45



<LTE Band 25 Conducted Power>

BW [MHz]	Modulation	RB Size	RB Offset	Power (dBm) Low Ch. / Freq.	Power (dBm) Middle Ch. / Freq.	Power (dBm) High Ch. / Freq.
<b>Channel</b>				<b>26140</b>	<b>26340</b>	<b>26590</b>
<b>Frequency (MHz)</b>				<b>1860</b>	<b>1880</b>	<b>1905</b>
20	QPSK	1	0	23.14	23.13	22.97
20	QPSK	1	49	23.41	23.55	23.36
20	QPSK	1	99	23.22	23.00	22.75
20	QPSK	50	0	22.63	22.90	22.69
20	QPSK	50	24	22.75	22.96	22.68
20	QPSK	50	49	22.71	22.73	22.59
20	QPSK	100	0	22.72	22.95	22.89
20	16QAM	1	0	22.76	22.98	22.93
20	16QAM	1	49	22.98	22.93	22.92
20	16QAM	1	99	21.95	21.94	21.93
20	16QAM	50	0	21.72	21.84	21.83
20	16QAM	50	24	21.63	21.91	21.65
20	16QAM	50	49	21.47	21.70	21.57
20	16QAM	100	0	21.89	21.89	21.75
<b>Channel</b>				<b>26115</b>	<b>26340</b>	<b>26615</b>
<b>Frequency (MHz)</b>				<b>1857.5</b>	<b>1880</b>	<b>1907.5</b>
15	QPSK	1	0	23.07	23.05	23.02
15	QPSK	1	37	23.44	23.34	23.43
15	QPSK	1	74	22.82	22.70	23.00
15	QPSK	36	0	22.67	22.61	22.90
15	QPSK	36	18	22.75	22.68	22.92
15	QPSK	36	37	22.64	22.52	22.48
15	QPSK	75	0	22.91	22.72	22.74
15	16QAM	1	0	22.81	22.80	22.76
15	16QAM	1	37	22.90	22.97	22.98
15	16QAM	1	74	22.95	22.98	22.97
15	16QAM	36	0	21.61	21.56	21.79
15	16QAM	36	18	21.79	21.78	21.73
15	16QAM	36	37	21.54	21.55	21.62
15	16QAM	75	0	21.80	21.61	21.86



BW [MHz]	Modulation	RB Size	RB Offset	Power (dBm) Low Ch. / Freq.	Power (dBm) Middle Ch. / Freq.	Power (dBm) High Ch. / Freq.
<b>Channel</b>				<b>26090</b>	<b>26340</b>	<b>26640</b>
<b>Frequency (MHz)</b>				<b>1855</b>	<b>1880</b>	<b>1910</b>
10	QPSK	1	0	22.90	23.07	22.91
10	QPSK	1	24	23.53	23.53	23.54
10	QPSK	1	49	22.89	22.98	23.00
10	QPSK	25	0	22.75	22.84	22.67
10	QPSK	25	12	22.79	22.75	22.84
10	QPSK	25	24	22.45	22.52	22.51
10	QPSK	50	0	22.82	22.69	22.78
10	16QAM	1	0	22.76	23.00	22.80
10	16QAM	1	24	22.99	22.97	22.95
10	16QAM	1	49	22.94	23.00	22.98
10	16QAM	25	0	21.74	21.72	21.75
10	16QAM	25	12	21.64	21.80	21.91
10	16QAM	25	24	21.66	21.55	21.41
10	16QAM	50	0	21.75	21.59	21.79
<b>Channel</b>				<b>26065</b>	<b>26340</b>	<b>26665</b>
<b>Frequency (MHz)</b>				<b>1852.5</b>	<b>1880</b>	<b>1912.5</b>
5	QPSK	1	0	22.98	22.86	23.06
5	QPSK	1	12	23.54	23.44	23.36
5	QPSK	1	24	22.91	22.85	22.95
5	QPSK	12	0	22.63	22.78	22.82
5	QPSK	12	6	22.79	22.71	22.82
5	QPSK	12	11	22.60	22.58	22.53
5	QPSK	25	0	22.79	22.87	22.76
5	16QAM	1	0	22.91	22.77	22.94
5	16QAM	1	12	22.94	22.95	22.93
5	16QAM	1	24	22.94	22.99	22.98
5	16QAM	12	0	21.84	21.57	21.77
5	16QAM	12	6	21.67	21.85	21.66
5	16QAM	12	11	21.67	21.51	21.40
5	16QAM	25	0	21.76	21.78	21.60



BW [MHz]	Modulation	RB Size	RB Offset	Power (dBm) Low Ch. / Freq.	Power (dBm) Middle Ch. / Freq.	Power (dBm) High Ch. / Freq.
<b>Channel</b>				<b>26055</b>	<b>26340</b>	<b>26675</b>
<b>Frequency (MHz)</b>				<b>1851.5</b>	<b>1880</b>	<b>1913.5</b>
3	QPSK	1	0	23.07	23.07	22.93
3	QPSK	1	7	23.36	23.49	23.29
3	QPSK	1	14	22.86	22.85	22.90
3	QPSK	8	0	22.90	22.82	22.73
3	QPSK	8	4	22.91	22.72	22.70
3	QPSK	8	7	22.63	22.58	22.52
3	QPSK	15	0	22.71	22.67	22.65
3	16QAM	1	0	22.89	22.77	22.86
3	16QAM	1	7	22.92	22.90	22.97
3	16QAM	1	14	22.93	22.95	22.88
3	16QAM	8	0	21.81	21.72	21.74
3	16QAM	8	4	21.64	21.77	21.85
3	16QAM	8	7	21.70	21.52	21.61
3	16QAM	15	0	21.83	21.73	21.74
<b>Channel</b>				<b>26047</b>	<b>26340</b>	<b>26683</b>
<b>Frequency (MHz)</b>				<b>1850.7</b>	<b>1880</b>	<b>1914.3</b>
1.4	QPSK	1	0	23.08	22.86	23.17
1.4	QPSK	1	2	23.27	23.32	23.49
1.4	QPSK	1	5	22.89	22.85	22.88
1.4	QPSK	3	0	22.80	22.77	22.81
1.4	QPSK	3	1	22.67	22.83	22.80
1.4	QPSK	3	2	22.67	22.64	22.79
1.4	QPSK	6	0	22.92	22.81	22.81
1.4	16QAM	1	0	22.96	22.98	22.86
1.4	16QAM	1	2	22.93	22.93	22.99
1.4	16QAM	1	5	22.92	23.00	22.97
1.4	16QAM	3	0	21.72	21.65	21.86
1.4	16QAM	3	1	21.83	21.67	21.80
1.4	16QAM	3	2	21.65	21.65	21.79
1.4	16QAM	6	0	21.75	21.69	21.65



<LTE Band 4 Conducted Power>

BW [MHz]	Modulation	RB Size	RB Offset	Power (dBm) Low Ch. / Freq.	Power (dBm) Middle Ch. / Freq.	Power (dBm) High Ch. / Freq.
<b>Channel</b>				<b>20050</b>	<b>20175</b>	<b>20300</b>
<b>Frequency (MHz)</b>				<b>1720</b>	<b>1732.5</b>	<b>1745</b>
20	QPSK	1	0	23.60	23.55	23.46
20	QPSK	1	49	23.36	23.28	23.20
20	QPSK	1	99	23.35	23.23	23.11
20	QPSK	50	0	22.59	22.58	22.49
20	QPSK	50	24	22.38	22.29	22.01
20	QPSK	50	49	22.45	22.50	22.41
20	QPSK	100	0	22.40	22.37	22.29
20	16QAM	1	0	22.90	23.00	22.85
20	16QAM	1	49	22.62	22.70	22.63
20	16QAM	1	99	22.79	22.63	22.47
20	16QAM	50	0	21.66	21.49	21.27
20	16QAM	50	24	21.45	21.28	21.27
20	16QAM	50	49	21.34	21.29	21.04
20	16QAM	100	0	21.31	21.33	21.13
<b>Channel</b>				<b>20025</b>	<b>20175</b>	<b>20325</b>
<b>Frequency (MHz)</b>				<b>1717.5</b>	<b>1732.5</b>	<b>1747.5</b>
15	QPSK	1	0	23.54	23.45	23.35
15	QPSK	1	37	23.27	23.23	23.13
15	QPSK	1	74	23.11	23.18	23.15
15	QPSK	36	0	22.43	22.30	22.50
15	QPSK	36	18	22.29	22.26	22.02
15	QPSK	36	37	22.35	22.33	22.46
15	QPSK	75	0	22.26	22.32	22.41
15	16QAM	1	0	22.82	22.79	22.70
15	16QAM	1	37	22.67	22.68	22.58
15	16QAM	1	74	22.44	22.61	22.55
15	16QAM	36	0	21.28	21.20	21.21
15	16QAM	36	18	21.21	21.02	21.17
15	16QAM	36	37	21.09	21.22	21.11
15	16QAM	75	0	21.24	21.15	21.13



BW [MHz]	Modulation	RB Size	RB Offset	Power (dBm) Low Ch. / Freq.	Power (dBm) Middle Ch. / Freq.	Power (dBm) High Ch. / Freq.
<b>Channel</b>				<b>20000</b>	<b>20175</b>	<b>20350</b>
<b>Frequency (MHz)</b>				<b>1715</b>	<b>1732.5</b>	<b>1750</b>
10	QPSK	1	0	23.32	23.52	23.28
10	QPSK	1	24	23.28	23.10	23.24
10	QPSK	1	49	23.20	23.21	23.19
10	QPSK	25	0	22.48	22.35	22.57
10	QPSK	25	12	22.18	22.06	22.13
10	QPSK	25	24	22.27	22.48	22.43
10	QPSK	50	0	22.31	22.34	22.21
10	16QAM	1	0	22.96	22.88	22.84
10	16QAM	1	24	22.58	22.65	22.40
10	16QAM	1	49	22.57	22.44	22.35
10	16QAM	25	0	21.23	21.46	21.30
10	16QAM	25	12	21.11	21.21	20.99
10	16QAM	25	24	21.13	21.10	21.21
10	16QAM	50	0	21.23	21.07	21.06
<b>Channel</b>				<b>19975</b>	<b>20175</b>	<b>20375</b>
<b>Frequency (MHz)</b>				<b>1712.5</b>	<b>1732.5</b>	<b>1752.5</b>
5	QPSK	1	0	23.51	23.46	23.50
5	QPSK	1	12	22.98	23.21	23.28
5	QPSK	1	24	23.00	23.04	23.20
5	QPSK	12	0	22.52	22.40	22.32
5	QPSK	12	6	22.29	22.27	22.21
5	QPSK	12	11	22.36	22.41	22.42
5	QPSK	25	0	22.41	22.18	22.41
5	16QAM	1	0	22.75	22.96	22.71
5	16QAM	1	12	22.60	22.63	22.61
5	16QAM	1	24	22.36	22.53	22.47
5	16QAM	12	0	21.40	21.35	21.34
5	16QAM	12	6	21.26	21.22	21.19
5	16QAM	12	11	21.07	21.06	21.25
5	16QAM	25	0	21.22	21.16	21.28



BW [MHz]	Modulation	RB Size	RB Offset	Power (dBm) Low Ch. / Freq.	Power (dBm) Middle Ch. / Freq.	Power (dBm) High Ch. / Freq.
<b>Channel</b>				<b>19965</b>	<b>20175</b>	<b>20385</b>
<b>Frequency (MHz)</b>				<b>1711.5</b>	<b>1732.5</b>	<b>1753.5</b>
3	QPSK	1	0	23.52	23.34	23.30
3	QPSK	1	7	22.98	22.99	23.19
3	QPSK	1	14	23.22	22.97	22.96
3	QPSK	8	0	22.32	22.51	22.36
3	QPSK	8	4	22.24	22.18	22.08
3	QPSK	8	7	22.46	22.39	22.40
3	QPSK	15	0	22.26	22.32	22.31
3	16QAM	1	0	22.85	22.73	22.95
3	16QAM	1	7	22.47	22.42	22.59
3	16QAM	1	14	22.49	22.33	22.53
3	16QAM	8	0	21.42	21.45	21.40
3	16QAM	8	4	21.15	21.01	21.15
3	16QAM	8	7	21.29	20.99	21.11
3	16QAM	15	0	21.06	21.13	21.18
<b>Channel</b>				<b>19957</b>	<b>20175</b>	<b>20393</b>
<b>Frequency (MHz)</b>				<b>1710.7</b>	<b>1732.5</b>	<b>1754.3</b>
1.4	QPSK	1	0	23.36	23.19	23.37
1.4	QPSK	1	2	23.27	23.11	23.02
1.4	QPSK	1	5	23.03	22.99	23.21
1.4	QPSK	3	0	22.72	22.62	22.77
1.4	QPSK	3	1	22.68	22.52	22.72
1.4	QPSK	3	2	22.69	22.51	22.69
1.4	QPSK	6	0	22.47	22.37	22.37
1.4	16QAM	1	0	22.90	22.83	22.92
1.4	16QAM	1	2	22.67	22.49	22.62
1.4	16QAM	1	5	22.59	22.42	22.33
1.4	16QAM	3	0	21.87	21.97	21.72
1.4	16QAM	3	1	21.77	21.73	21.74
1.4	16QAM	3	2	21.78	21.64	21.72
1.4	16QAM	6	0	21.10	21.10	21.21



<LTE Band 13 Conducted Power>

BW [MHz]	Modulation	RB Size	RB Offset	Power (dBm) Low Ch. / Freq.	Power (dBm) Middle Ch. / Freq.	Power (dBm) High Ch. / Freq.
<b>Channel</b>					<b>23230</b>	
<b>Frequency (MHz)</b>					<b>782</b>	
10	QPSK	1	0		<b>23.64</b>	
10	QPSK	1	24		23.42	
10	QPSK	1	49		23.27	
10	QPSK	25	0		22.97	
10	QPSK	25	12		22.74	
10	QPSK	25	24		22.75	
10	QPSK	50	0		22.56	
10	16QAM	1	0		22.94	
10	16QAM	1	24		22.85	
10	16QAM	1	49		22.94	
10	16QAM	25	0		21.92	
10	16QAM	25	12		21.73	
10	16QAM	25	24		21.85	
10	16QAM	50	0		21.65	
<b>Channel</b>				<b>23205</b>	<b>23230</b>	<b>23255</b>
<b>Frequency (MHz)</b>				<b>779.5</b>	<b>782</b>	<b>784.5</b>
5	QPSK	1	0	<b>23.54</b>	23.47	23.51
5	QPSK	1	12	23.14	23.21	23.42
5	QPSK	1	24	23.38	23.45	23.50
5	QPSK	12	0	22.85	22.96	22.98
5	QPSK	12	6	22.72	22.86	22.93
5	QPSK	12	11	22.84	22.70	23.00
5	QPSK	25	0	22.83	22.70	22.86
5	16QAM	1	0	22.90	22.98	22.92
5	16QAM	1	12	22.77	22.81	22.98
5	16QAM	1	24	22.67	22.80	22.97
5	16QAM	12	0	21.97	21.97	21.94
5	16QAM	12	6	21.77	21.93	22.00
5	16QAM	12	11	21.80	21.89	21.98
5	16QAM	25	0	21.74	21.70	21.75



<LTE Band 17 Conducted Power>

BW [MHz]	Modulation	RB Size	RB Offset	Power (dBm) Low Ch. / Freq.	Power (dBm) Middle Ch. / Freq.	Power (dBm) High Ch. / Freq.
<b>Channel</b>				<b>23780</b>	<b>23790</b>	<b>23800</b>
<b>Frequency (MHz)</b>				<b>709</b>	<b>710</b>	<b>711</b>
10	QPSK	1	0	23.75	23.66	23.74
10	QPSK	1	24	23.55	23.44	23.48
10	QPSK	1	49	23.70	23.56	23.57
10	QPSK	25	0	22.95	22.85	22.82
10	QPSK	25	12	22.85	22.58	22.68
10	QPSK	25	24	23.00	22.91	22.82
10	QPSK	50	0	22.81	22.68	22.54
10	16QAM	1	0	22.96	22.95	22.92
10	16QAM	1	24	22.90	22.62	22.71
10	16QAM	1	49	22.92	23.00	22.89
10	16QAM	25	0	21.94	21.82	21.89
10	16QAM	25	12	21.88	21.80	21.60
10	16QAM	25	24	21.94	21.86	21.65
10	16QAM	50	0	21.76	21.69	21.65
<b>Channel</b>				<b>23755</b>	<b>23790</b>	<b>23825</b>
<b>Frequency (MHz)</b>				<b>706.5</b>	<b>710</b>	<b>713.5</b>
5	QPSK	1	0	23.62	23.70	23.73
5	QPSK	1	12	23.44	23.37	23.41
5	QPSK	1	24	23.51	23.52	23.46
5	QPSK	12	0	22.79	22.86	22.91
5	QPSK	12	6	22.65	22.81	22.62
5	QPSK	12	11	22.85	22.94	22.88
5	QPSK	25	0	22.75	22.69	22.66
5	16QAM	1	0	22.98	22.90	22.97
5	16QAM	1	12	22.79	22.81	22.83
5	16QAM	1	24	22.81	22.95	23.00
5	16QAM	12	0	21.84	21.78	21.66
5	16QAM	12	6	21.86	21.67	21.81
5	16QAM	12	11	21.85	21.87	21.72
5	16QAM	25	0	21.48	21.51	21.53

Note: maximum average power for LTE.



3.1.6 Test Result of Conducted Output Power and ERP/EIRP

Cellular Band ( $G_T - L_C = -3.60$ dB)						
Modes	LTE Band 5 (QPSK, BW=1.4M)			LTE Band 5 (16QAM, BW=1.4M)		
Channel	20407 (Low)	20525 (Mid)	20643 (High)	20407 (Low)	20525 (Mid)	20643 (High)
Frequency (MHz)	824.7	836.5	848.3	824.7	836.5	848.3
Conducted Power $P_T$ (dBm)	23.57	23.55	23.58	22.93	22.89	23
Conducted Power $P_T$ (Watts)	0.23	0.23	0.23	0.20	0.19	0.20
ERP(dBm)	17.82	17.80	17.83	17.18	17.14	17.25
ERP(Watts)	0.06	0.06	0.06	0.05	0.05	0.05

Cellular Band ( $G_T - L_C = -3.60$ dB)						
Modes	LTE Band 5 (QPSK, BW=3M)			LTE Band 5 (16QAM, BW=3M)		
Channel	20415 (Low)	20525 (Mid)	20635 (High)	20415 (Low)	20525 (Mid)	20635 (High)
Frequency (MHz)	825.5	836.5	847.5	825.5	836.5	847.5
Conducted Power $P_T$ (dBm)	23.75	23.56	23.78	22.81	22.82	22.98
Conducted Power $P_T$ (Watts)	0.24	0.23	0.24	0.19	0.19	0.20
ERP(dBm)	18.00	17.81	18.03	17.06	17.07	17.23
ERP(Watts)	0.06	0.06	0.06	0.05	0.05	0.05



Cellular Band ( $G_T - L_C = -3.60$ dB)						
Modes	LTE Band 5 (QPSK, BW=5M)			LTE Band 5 (16QAM, BW=5M)		
Channel	20425 (Low)	20525 (Mid)	20625 (High)	20425 (Low)	20525 (Mid)	20625 (High)
Frequency (MHz)	826.5	836.5	846.5	826.5	836.5	846.5
Conducted Power $P_T$ (dBm)	23.65	23.53	23.52	22.9	22.92	22.97
Conducted Power $P_T$ (Watts)	0.23	0.23	0.22	0.19	0.20	0.20
ERP(dBm)	17.90	17.78	17.77	17.15	17.17	17.22
ERP(Watts)	0.06	0.06	0.06	0.05	0.05	0.05

Cellular Band ( $G_T - L_C = -3.60$ dB)						
Modes	LTE Band 5 (QPSK, BW=10M)			LTE Band 5 (16QAM, BW=10M)		
Channel	20450 (Low)	20525 (Mid)	20600 (High)	20450 (Low)	20525 (Mid)	20600 (High)
Frequency (MHz)	829	836.5	844	829	836.5	844
Conducted Power $P_T$ (dBm)	23.8	23.72	23.6	22.91	22.99	22.89
Conducted Power $P_T$ (Watts)	0.24	0.24	0.23	0.20	0.20	0.19
ERP(dBm)	18.05	17.97	17.85	17.16	17.24	17.14
ERP(Watts)	0.06	0.06	0.06	0.05	0.05	0.05



PCS Band ( $G_T - L_C = -0.59$ dB)						
Modes	LTE Band 2 (QPSK, BW=1.4M)			LTE Band 2 (16QAM, BW=1.4M)		
Channel	18607(Low)	18900 (Mid)	19193 (High)	18607(Low)	18900 (Mid)	19193 (High)
Frequency (MHz)	1850.7	1880	1909.3	1850.7	1880	1909.3
Conducted Power $P_T$ (dBm)	23.76	23.69	23.42	22.8	22.85	22.43
Conducted Power $P_T$ (Watts)	0.24	0.23	0.22	0.19	0.19	0.17
EIRP(dBm)	23.17	23.10	22.83	22.21	22.26	21.84
EIRP(Watts)	0.21	0.20	0.19	0.17	0.17	0.15

PCS Band ( $G_T - L_C = -0.59$ dB)						
Modes	LTE Band 2 (QPSK, BW=3M)			LTE Band 2 (16QAM, BW=3M)		
Channel	18615(Low)	18900 (Mid)	19185 (High)	18615(Low)	18900 (Mid)	19185 (High)
Frequency (MHz)	1851.5	1880	1908.5	1851.5	1880	1908.5
Conducted Power $P_T$ (dBm)	23.61	23.78	23.35	22.76	22.87	22.77
Conducted Power $P_T$ (Watts)	0.23	0.24	0.22	0.19	0.19	0.19
EIRP(dBm)	23.02	23.19	22.76	22.17	22.28	22.18
EIRP(Watts)	0.20	0.21	0.19	0.16	0.17	0.17



PCS Band (G <sub>T</sub> - L <sub>C</sub> = -0.59 dB)						
Modes	LTE Band 2 (QPSK,BW=5M)			LTE Band 2 (16QAM,BW=5M)		
Channel	18625(Low)	18900 (Mid)	19175 (High)	18625(Low)	18900 (Mid)	19175 (High)
Frequency (MHz)	1852.5	1880	1907.5	1852.5	1880	1907.5
Conducted Power P <sub>T</sub> (dBm)	23.66	23.78	23.7	22.71	22.84	22.79
Conducted Power P <sub>T</sub> (Watts)	0.23	0.24	0.23	0.19	0.19	0.19
EIRP(dBm)	23.07	23.19	23.11	22.12	22.25	22.20
EIRP(Watts)	0.20	0.21	0.20	0.16	0.17	0.17

PCS Band (G <sub>T</sub> - L <sub>C</sub> = -0.59 dB)						
Modes	LTE Band 2 (QPSK,BW=10M)			LTE Band 2 (16QAM,BW=10M)		
Channel	18650(Low)	18900 (Mid)	19150 (High)	18650(Low)	18900 (Mid)	19150 (High)
Frequency (MHz)	1855	1880	1905	1855	1880	1905
Conducted Power P <sub>T</sub> (dBm)	23.61	23.73	23.62	22.76	22.71	22.6
Conducted Power P <sub>T</sub> (Watts)	0.23	0.24	0.23	0.19	0.19	0.18
EIRP(dBm)	23.02	23.14	23.03	22.17	22.12	22.01
EIRP(Watts)	0.20	0.21	0.20	0.16	0.16	0.16



PCS Band ( $G_T - L_C = -0.59$ dB)						
Modes	LTE Band 2 (QPSK, BW=15M)			LTE Band 2 (16QAM, BW=15M)		
Channel	18675(Low)	18900 (Mid)	19125 (High)	18675(Low)	18900 (Mid)	19125 (High)
Frequency (MHz)	1857.5	1880	1902.5	1857.5	1880	1902.5
Conducted Power $P_T$ (dBm)	23.69	23.78	23.45	22.76	22.7	22.3
Conducted Power $P_T$ (Watts)	0.23	0.24	0.22	0.19	0.19	0.17
EIRP(dBm)	23.10	23.19	22.86	22.17	22.11	21.71
EIRP(Watts)	0.20	0.21	0.19	0.16	0.16	0.15

PCS Band ( $G_T - L_C = -0.59$ dB)						
Modes	LTE Band 2 (QPSK, BW=20M)			LTE Band 2 (16QAM, BW=20M)		
Channel	18700(Low)	18900 (Mid)	19100 (High)	18700(Low)	18900 (Mid)	19100 (High)
Frequency (MHz)	1860	1880	1900	1860	1880	1900
Conducted Power $P_T$ (dBm)	23.78	23.79	23.3	22.78	22.72	22.36
Conducted Power $P_T$ (Watts)	0.24	0.24	0.21	0.19	0.19	0.17
EIRP(dBm)	23.19	23.20	22.71	22.19	22.13	21.77
EIRP(Watts)	0.21	0.21	0.19	0.17	0.16	0.15



PCS Band ( $G_T - L_C = -0.59$ dB)						
Modes	LTE Band 25 (QPSK, BW=1.4M)			LTE Band 25 (16QAM, BW=1.4M)		
Channel	26047 (Low)	26340 (Mid)	26683 (High)	26047 (Low)	26340 (Mid)	26683 (High)
Frequency (MHz)	1850.7	1880	1914.3	1850.7	1880	1914.3
Conducted Power $P_T$ (dBm)	23.27	23.32	23.49	22.92	23.00	22.97
Conducted Power $P_T$ (Watts)	0.21	0.21	0.22	0.20	0.20	0.20
EIRP(dBm)	22.68	22.73	22.90	22.33	22.41	22.38
EIRP(Watts)	0.19	0.19	0.19	0.17	0.17	0.17

PCS Band ( $G_T - L_C = -0.59$ dB)						
Modes	LTE Band 25 (QPSK, BW=3M)			LTE Band 25 (16QAM, BW=3M)		
Channel	26055 (Low)	26340 (Mid)	26675 (High)	26055 (Low)	26340 (Mid)	26675 (High)
Frequency (MHz)	1851.5	1880	1913.5	1851.5	1880	1913.5
Conducted Power $P_T$ (dBm)	23.36	23.49	23.29	22.92	22.90	22.97
Conducted Power $P_T$ (Watts)	0.22	0.22	0.21	0.20	0.19	0.20
EIRP(dBm)	22.77	22.90	22.70	22.33	22.31	22.38
EIRP(Watts)	0.19	0.19	0.19	0.17	0.17	0.17



PCS Band ( $G_T - L_C = -0.59$ dB)						
Modes	LTE Band 25 (QPSK, BW=5M)			LTE Band 25 (16QAM, BW=5M)		
Channel	26065 (Low)	26340 (Mid)	26665 (High)	26065 (Low)	26340 (Mid)	26665 (High)
Frequency (MHz)	1852.5	1880	1912.5	1852.5	1880	1912.5
Conducted Power $P_T$ (dBm)	22.98	22.86	23.06	22.94	22.99	22.98
Conducted Power $P_T$ (Watts)	0.20	0.19	0.20	0.20	0.20	0.20
EIRP(dBm)	22.39	22.27	22.47	22.35	22.40	22.39
EIRP(Watts)	0.17	0.17	0.18	0.17	0.17	0.17

PCS Band ( $G_T - L_C = -0.59$ dB)						
Modes	LTE Band 25 (QPSK, BW=10M)			LTE Band 25 (16QAM, BW=10M)		
Channel	26090 (Low)	26340 (Mid)	26640 (High)	26090 (Low)	26340 (Mid)	26640 (High)
Frequency (MHz)	1855	1880	1910	1855	1880	1910
Conducted Power $P_T$ (dBm)	23.53	23.53	23.54	22.94	23.00	22.98
Conducted Power $P_T$ (Watts)	0.23	0.23	0.23	0.20	0.20	0.20
EIRP(dBm)	22.94	22.94	22.95	22.35	22.41	22.39
EIRP(Watts)	0.20	0.20	0.20	0.17	0.17	0.17



PCS Band ( $G_T - L_C = -0.59$ dB)						
Modes	LTE Band 25 (QPSK,BW=15M)			LTE Band 25 (16QAM,BW=15M)		
Channel	26115 (Low)	26340 (Mid)	26615 (High)	26115 (Low)	26340 (Mid)	26615 (High)
Frequency (MHz)	1857.5	1880	1907.5	1857.5	1880	1907.5
Conducted Power $P_T$ (dBm)	23.44	23.34	23.43	22.95	22.98	22.97
Conducted Power $P_T$ (Watts)	0.22	0.22	0.22	0.20	0.20	0.20
EIRP(dBm)	22.85	22.75	22.84	22.36	22.39	22.38
EIRP(Watts)	0.19	0.19	0.19	0.17	0.17	0.17

PCS Band ( $G_T - L_C = -0.59$ dB)						
Modes	LTE Band 25 (QPSK,BW=20M)			LTE Band 25 (16QAM,BW=20M)		
Channel	26140 (Low)	26340 (Mid)	26590 (High)	26140 (Low)	26340 (Mid)	26590 (High)
Frequency (MHz)	1860	1880	1905	1860	1880	1905
Conducted Power $P_T$ (dBm)	23.41	23.55	23.36	22.98	22.93	22.92
Conducted Power $P_T$ (Watts)	0.22	0.23	0.22	0.20	0.20	0.20
EIRP(dBm)	22.82	22.96	22.77	22.39	22.34	22.33
EIRP(Watts)	0.19	0.20	0.19	0.17	0.17	0.17



PCS Band ( $G_T - L_C = -1.33$ dB)						
Modes	LTE Band 4 (QPSK, BW=1.4M)			LTE Band 4 (16QAM, BW=1.4M)		
Channel	19957 (Low)	20175 (Mid)	20393 (High)	19957 (Low)	20175 (Mid)	20393 (High)
Frequency (MHz)	1710.7	1732.5	1754.3	1710.7	1732.5	1754.3
Conducted Power $P_T$ (dBm)	23.36	23.19	23.37	22.59	22.42	22.33
Conducted Power $P_T$ (Watts)	0.22	0.21	0.22	0.18	0.17	0.17
EIRP(dBm)	22.03	21.86	22.04	21.26	21.09	21.00
EIRP(Watts)	0.16	0.15	0.16	0.13	0.13	0.13

PCS Band ( $G_T - L_C = -1.33$ dB)						
Modes	LTE Band 4 (QPSK, BW=3M)			LTE Band 4 (16QAM, BW=3M)		
Channel	19965(Low)	20175 (Mid)	20385 (High)	19965(Low)	20175 (Mid)	20385 (High)
Frequency (MHz)	1711.5	1732.5	1753.5	1711.5	1732.5	1753.5
Conducted Power $P_T$ (dBm)	23.52	23.34	23.3	22.85	22.73	22.95
Conducted Power $P_T$ (Watts)	0.22	0.22	0.21	0.19	0.19	0.20
EIRP(dBm)	22.19	22.01	21.97	21.52	21.40	21.62
EIRP(Watts)	0.17	0.16	0.16	0.14	0.14	0.15



PCS Band ( $G_T - L_C = -1.33$ dB)						
Modes	LTE Band 4 (QPSK, BW=5M)			LTE Band 4 (16QAM, BW=5M)		
Channel	19975(Low)	20175 (Mid)	20375 (High)	19975(Low)	20175 (Mid)	20375 (High)
Frequency (MHz)	1712.5	1732.5	1752.5	1712.5	1732.5	1752.5
Conducted Power $P_T$ (dBm)	23.51	23.46	23.5	22.75	22.96	22.71
Conducted Power $P_T$ (Watts)	0.22	0.22	0.22	0.19	0.20	0.19
EIRP(dBm)	22.18	22.13	22.17	21.42	21.63	21.38
EIRP(Watts)	0.17	0.16	0.16	0.14	0.15	0.14

PCS Band ( $G_T - L_C = -1.33$ dB)						
Modes	LTE Band 4 (QPSK, BW=10M)			LTE Band 4 (16QAM, BW=10M)		
Channel	20000 (Low)	20175 (Mid)	20350 (High)	20000 (Low)	20175 (Mid)	20350 (High)
Frequency (MHz)	1715	1732.5	1750	1715	1732.5	1750
Conducted Power $P_T$ (dBm)	23.32	23.52	23.28	22.96	22.88	22.84
Conducted Power $P_T$ (Watts)	0.21	0.22	0.21	0.20	0.19	0.19
EIRP(dBm)	21.99	22.19	21.95	21.63	21.55	21.51
EIRP(Watts)	0.16	0.17	0.16	0.15	0.14	0.14



PCS Band ( $G_T - L_C = -1.33$ dB)						
Modes	LTE Band 4 (QPSK, BW=15M)			LTE Band 4 (16QAM, BW=15M)		
Channel	20025 (Low)	20175 (Mid)	20325 (High)	20025 (Low)	20175 (Mid)	20325 (High)
Frequency (MHz)	1717.5	1732.5	1747.5	1717.5	1732.5	1747.5
Conducted Power $P_T$ (dBm)	23.54	23.45	23.35	22.82	22.79	22.70
Conducted Power $P_T$ (Watts)	0.23	0.22	0.22	0.19	0.19	0.19
EIRP(dBm)	22.21	22.12	22.02	21.49	21.46	21.37
EIRP(Watts)	0.17	0.16	0.16	0.14	0.14	0.14

PCS Band ( $G_T - L_C = -1.33$ dB)						
Modes	LTE Band 4 (QPSK, BW=20M)			LTE Band 4 (16QAM, BW=20M)		
Channel	20050 (Low)	20175 (Mid)	20300 (High)	20050 (Low)	20175 (Mid)	20300 (High)
Frequency (MHz)	1720	1732.5	1745	1720	1732.5	1745
Conducted Power $P_T$ (dBm)	23.60	23.55	23.46	22.90	23.00	22.85
Conducted Power $P_T$ (Watts)	0.23	0.23	0.22	0.19	0.20	0.19
EIRP(dBm)	22.27	22.22	22.13	21.57	21.67	21.52
EIRP(Watts)	0.17	0.17	0.16	0.14	0.15	0.14



Cellular Band ( $G_T - L_C = -2.08$ dB)						
Modes	LTE Band 13 (QPSK, BW=5M)			LTE Band 13 (16QAM, BW=5M)		
Channel	23205 (Low)	23230 (Mid)	23255 (High)	23205 (Low)	23230 (Mid)	23255 (High)
Frequency (MHz)	779.5	782	784.5	779.5	782	784.5
Conducted Power $P_T$ (dBm)	23.54	23.47	23.51	22.9	22.98	22.92
Conducted Power $P_T$ (Watts)	0.23	0.22	0.22	0.19	0.20	0.20
ERP(dBm)	19.31	19.24	19.28	18.67	18.75	18.69
ERP(Watts)	0.09	0.08	0.08	0.07	0.07	0.07

Cellular Band ( $G_T - L_C = -2.08$ dB)		
Modes	LTE Band 13 (QPSK, BW=10M)	LTE Band 13 (16QAM, BW=10M)
Channel	23230 (Mid)	23230 (Mid)
Frequency (MHz)	782	782
Conducted Power $P_T$ (dBm)	23.64	22.94
Conducted Power $P_T$ (Watts)	0.23	0.20
ERP(dBm)	19.41	18.71
ERP(Watts)	0.09	0.07



Cellular Band ( $G_T - L_C = -2.64$ dB)						
Modes	LTE Band 17 (QPSK, BW=5M)			LTE Band 17 (16QAM, BW=5M)		
Channel	23755(Low)	23790 (Mid)	23825 (High)	23755(Low)	23790 (Mid)	23825 (High)
Frequency (MHz)	706.5	710	713.5	706.5	710	713.5
Conducted Power $P_T$ (dBm)	23.62	23.7	23.73	22.81	22.95	23.00
Conducted Power $P_T$ (Watts)	0.23	0.23	0.24	0.19	0.20	0.20
ERP(dBm)	18.83	18.91	18.94	18.02	18.16	18.21
ERP(Watts)	0.08	0.08	0.08	0.06	0.07	0.07

Cellular Band ( $G_T - L_C = -2.64$ dB)						
Modes	LTE Band 17 (QPSK, BW=10M)			LTE Band 17 (16QAM, BW=10M)		
Channel	23780(Low)	23790 (Mid)	23800 (High)	23780(Low)	23790 (Mid)	23800 (High)
Frequency (MHz)	709	710	711	709	710	711
Conducted Power $P_T$ (dBm)	23.75	23.66	23.74	22.92	23.00	22.89
Conducted Power $P_T$ (Watts)	0.24	0.23	0.24	0.20	0.20	0.19
ERP(dBm)	18.96	18.87	18.95	18.13	18.21	18.10
ERP(Watts)	0.08	0.08	0.08	0.07	0.07	0.06

## 3.2 Peak-to-Average Ratio

### 3.2.1 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.

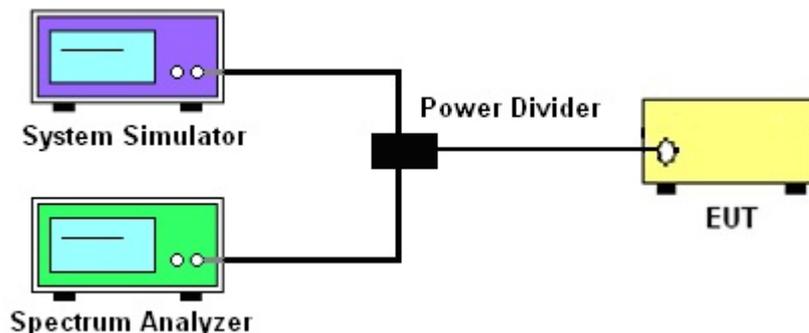
### 3.2.2 Measuring Instruments

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

### 3.2.3 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.

### 3.2.4 Test Setup





3.2.5 Test Result of Peak-to-Average Ratio

LTE Band 5						
BW [MHz]	Modulation	RB Size	RB Offset	Power (dBm) Low Ch. / Freq.	Power (dBm) Middle Ch. / Freq.	Power (dBm) High Ch. / Freq.
Channel				20450	20525	20600
Frequency (MHz)				829	836.5	844
10	16QAM	1	0	6.38	6.79	6.15
10	16QAM	50	0	6.51	6.28	6.38

LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Power (dBm) Low Ch. / Freq.	Power (dBm) Middle Ch. / Freq.	Power (dBm) High Ch. / Freq.
Channel				18700	18900	19100
Frequency (MHz)				1860	1880	1900
20	16QAM	1	0	6.28	6.03	5.99
20	16QAM	100	0	6.54	6.31	6.31

LTE Band 25						
BW [MHz]	Modulation	RB Size	RB Offset	Power (dBm) Low Ch. / Freq.	Power (dBm) Middle Ch. / Freq.	Power (dBm) High Ch. / Freq.
Channel				26140	26340	26590
Frequency (MHz)				1860	1880	1905
20	16QAM	1	0	6.28	6.03	5.06
20	16QAM	100	0	6.54	6.31	6.12

LTE Band 4						
BW [MHz]	Modulation	RB Size	RB Offset	Power (dBm) Low Ch. / Freq.	Power (dBm) Middle Ch. / Freq.	Power (dBm) High Ch. / Freq.
Channel				20050	20175	20300
Frequency (MHz)				1720	1732.5	1745
20	16QAM	1	0	6.54	5.54	5.32
20	16QAM	100	0	6.25	6.47	6.63

LTE Band 13						
BW [MHz]	Modulation	RB Size	RB Offset	Power (dBm) Low Ch. / Freq.	Power (dBm) Middle Ch. / Freq.	Power (dBm) High Ch. / Freq.
Channel					23230	
Frequency (MHz)					782	
10	16QAM	1	0		6.22	
10	16QAM	50	0		6.76	



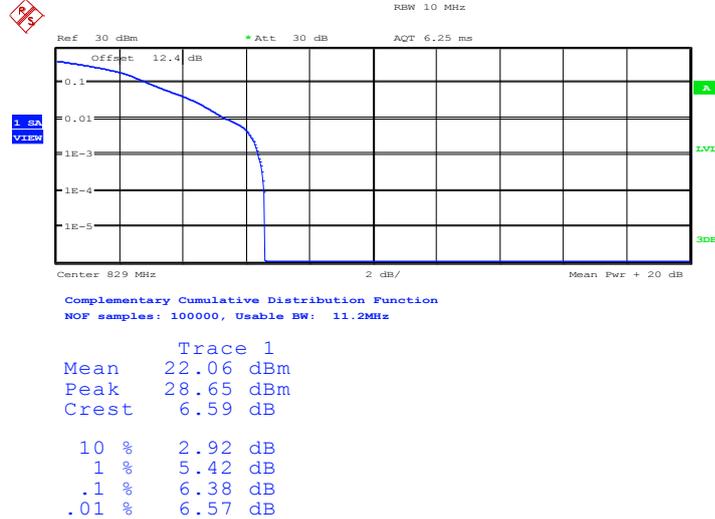
LTE Band 17						
BW [MHz]	Modulation	RB Size	RB Offset	Power (dBm) Low Ch. / Freq.	Power (dBm) Middle Ch. / Freq.	Power (dBm) High Ch. / Freq.
Channel				23780	23790	23800
Frequency (MHz)				709	710	711
10	16QAM	1	0	7.21	6.92	7.05
10	16QAM	50	0	6.38	6.44	6.47



### 3.2.6 Peak to Average Power Ratio

#### Peak-to-Average Ratio on LTE Band 5

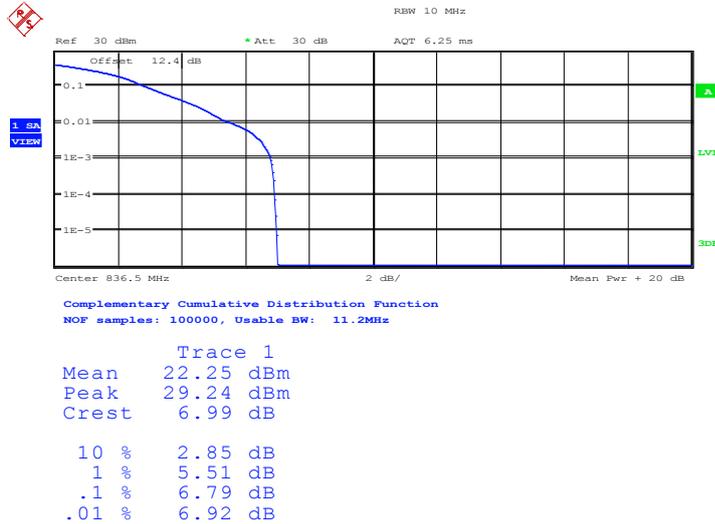
#### 10MHz / 16QAM in Ch. 20450 (1RB Size)



Date: 25.JUN.2014 23:42:06

#### Peak-to-Average Ratio on LTE Band 5

#### 10MHz / 16QAM in Ch. 20525 (1RB Size)

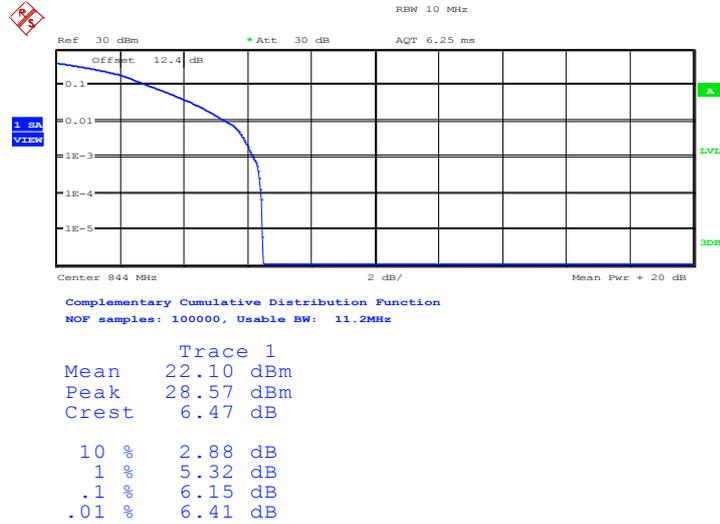


Date: 25.JUN.2014 23:42:42



Peak-to-Average Ratio on LTE Band 5

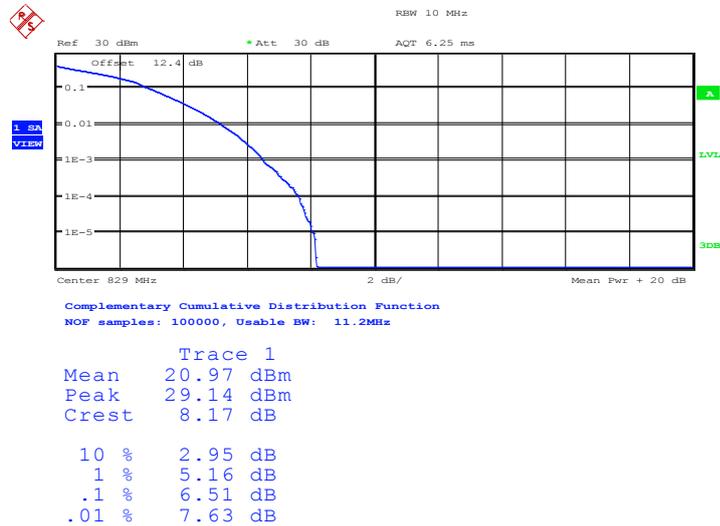
10MHz / 16QAM in Ch. 20600 (1RB Size)



Date: 25.JUN.2014 23:43:07

Peak-to-Average Ratio on LTE Band 5

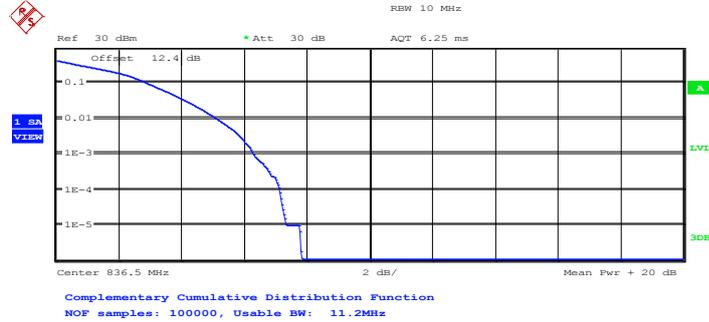
10MHz / 16QAM in Ch. 20450 (50RB Size)



Date: 25.JUN.2014 23:42:26



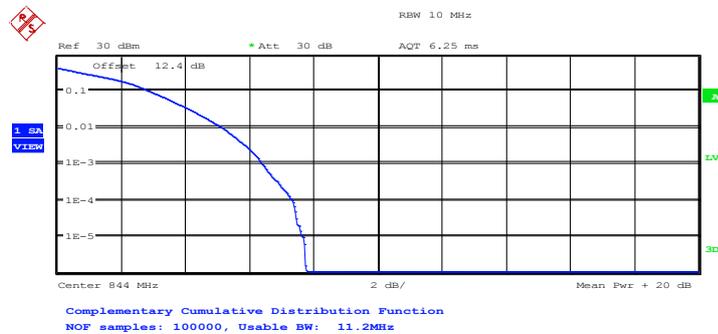
Peak-to-Average Ratio on LTE Band 5  
10MHz / 16QAM in Ch. 20525 (50RB Size)



Trace 1	
Mean	21.21 dBm
Peak	29.03 dBm
Crest	7.82 dB
10 %	2.92 dB
1 %	5.10 dB
.1 %	6.28 dB
.01 %	7.12 dB

Date: 25.JUN.2014 23:42:54

Peak-to-Average Ratio on LTE Band 5  
10MHz / 16QAM in Ch. 20600 (50RB Size)

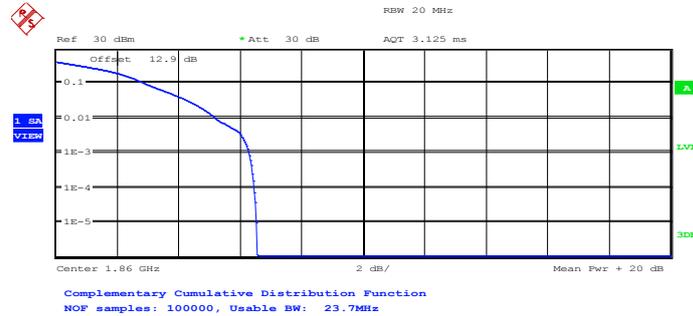


Trace 1	
Mean	20.53 dBm
Peak	28.29 dBm
Crest	7.75 dB
10 %	2.88 dB
1 %	5.13 dB
.1 %	6.38 dB
.01 %	7.34 dB

Date: 25.JUN.2014 23:43:21



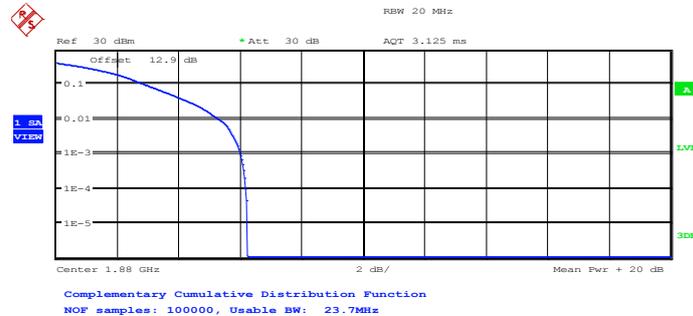
Peak-to-Average Ratio on LTE Band 2  
20MHz / 16QAM in Ch. 18700 (1RB Size)



Trace 1	
Mean	21.80 dBm
Peak	28.34 dBm
Crest	6.54 dB
10 %	2.92 dB
1 %	5.19 dB
.1 %	6.28 dB
.01 %	6.47 dB

Date: 25.JUN.2014 20:58:37

Peak-to-Average Ratio on LTE Band 2  
20MHz / 16QAM in Ch. 18900 (1RB Size)

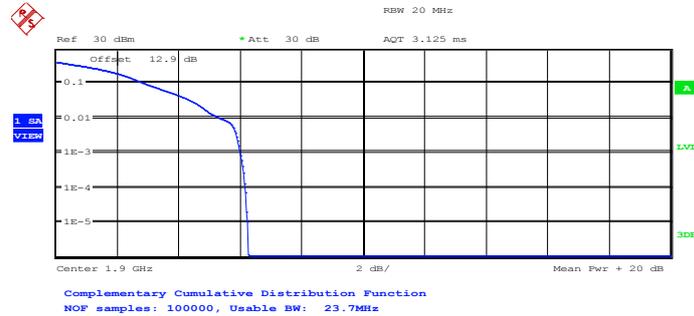


Trace 1	
Mean	21.49 dBm
Peak	27.73 dBm
Crest	6.23 dB
10 %	2.92 dB
1 %	5.29 dB
.1 %	6.03 dB
.01 %	6.19 dB

Date: 25.JUN.2014 20:59:01



Peak-to-Average Ratio on LTE Band 2  
20MHz / 16QAM in Ch. 19100 (1RB Size)



Trace 1	
Mean	21.43 dBm
Peak	27.71 dBm
Crest	6.28 dB
10 %	2.92 dB
1 %	5.35 dB
.1 %	5.99 dB
.01 %	6.15 dB

Date: 25.JUN.2014 20:59:25

Peak-to-Average Ratio on LTE Band 2  
20MHz / 16QAM in Ch. 18700 (100RB Size)

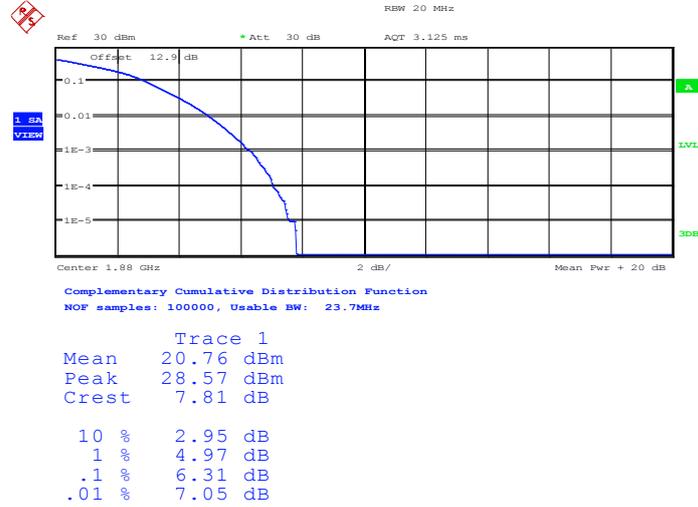


Trace 1	
Mean	20.68 dBm
Peak	28.90 dBm
Crest	8.22 dB
10 %	3.01 dB
1 %	5.16 dB
.1 %	6.54 dB
.01 %	7.44 dB

Date: 25.JUN.2014 20:58:49

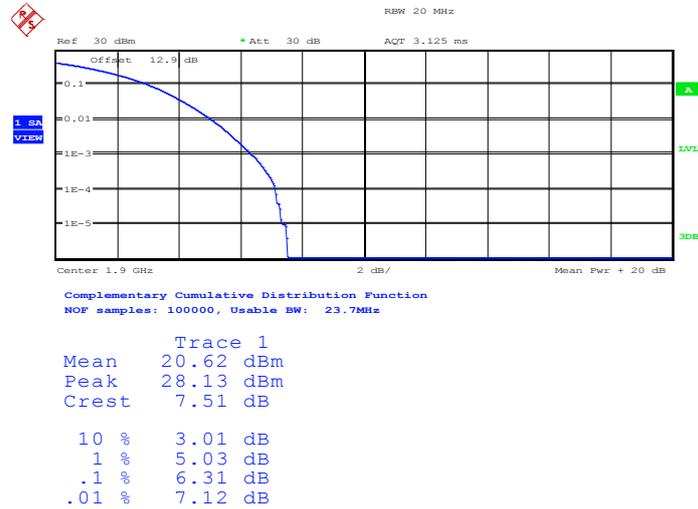


Peak-to-Average Ratio on LTE Band 2  
20MHz / 16QAM in Ch. 18900 (100RB Size)



Date: 25.JUN.2014 20:59:13

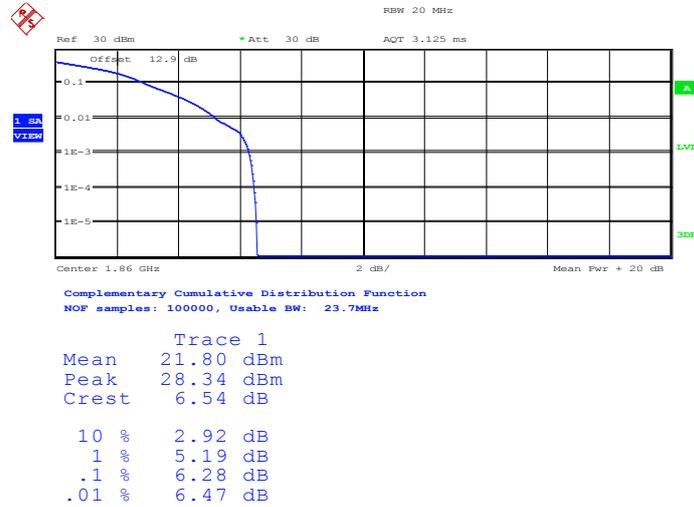
Peak-to-Average Ratio on LTE Band 2  
20MHz / 16QAM in Ch. 19100 (100RB Size)



Date: 25.JUN.2014 20:59:37

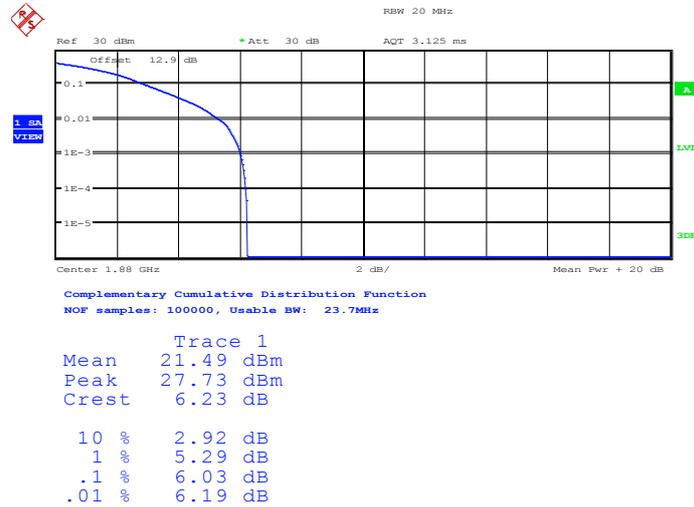


Peak-to-Average Ratio on LTE Band 25  
20MHz / 16QAM in Ch. 26140 (1RB Size)



Date: 25.JUN.2014 20:58:37

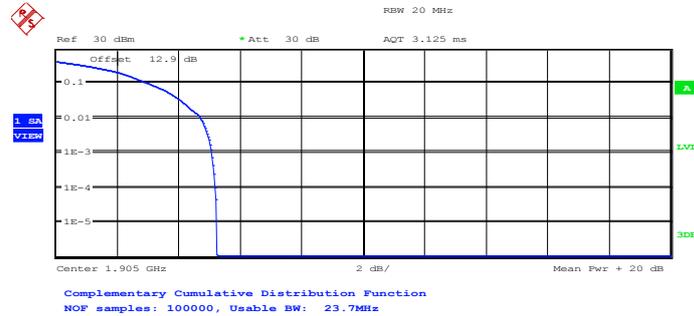
Peak-to-Average Ratio on LTE Band 25  
20MHz / 16QAM in Ch. 26340 (1RB Size)



Date: 25.JUN.2014 20:59:01



Peak-to-Average Ratio on LTE Band 25  
20MHz / 16QAM in Ch. 26590 (1RB Size)



Trace 1	
Mean	21.39 dBm
Peak	26.64 dBm
Crest	5.24 dB
10 %	3.01 dB
1 %	4.71 dB
.1 %	5.06 dB
.01 %	5.19 dB

Date: 26.JUN.2014 00:24:12

Peak-to-Average Ratio on LTE Band 25  
20MHz / 16QAM in Ch. 26140 (100RB Size)

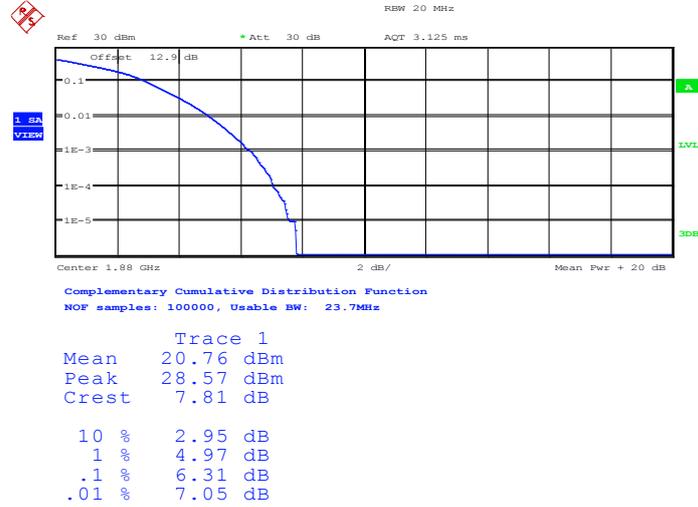


Trace 1	
Mean	20.68 dBm
Peak	28.90 dBm
Crest	8.22 dB
10 %	3.01 dB
1 %	5.16 dB
.1 %	6.54 dB
.01 %	7.44 dB

Date: 25.JUN.2014 20:58:49

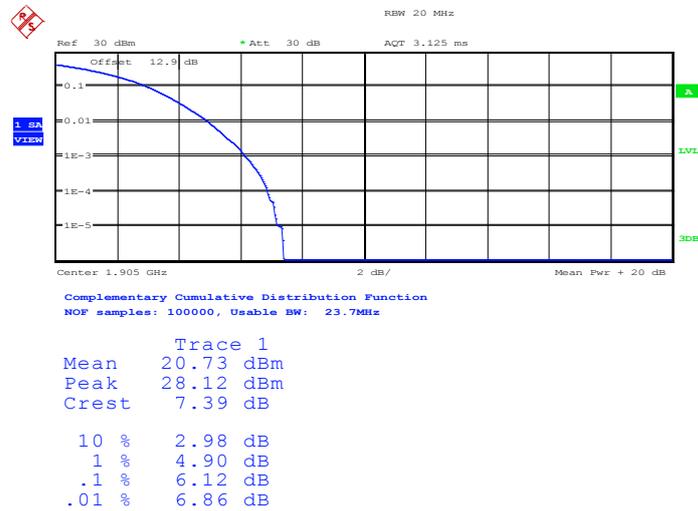


Peak-to-Average Ratio on LTE Band 25  
20MHz / 16QAM in Ch. 26340 (100RB Size)



Date: 25.JUN.2014 20:59:13

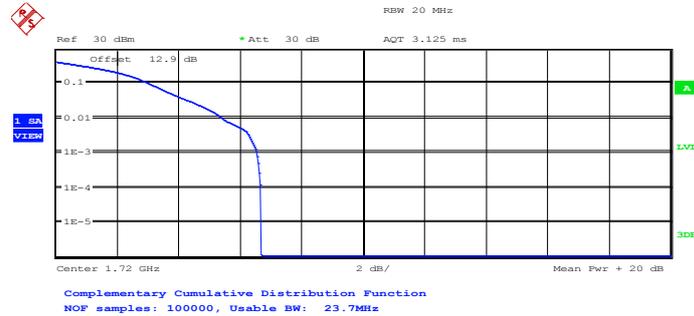
Peak-to-Average Ratio on LTE Band 25  
20MHz / 16QAM in Ch. 26590 (100RB Size)



Date: 26.JUN.2014 00:23:36



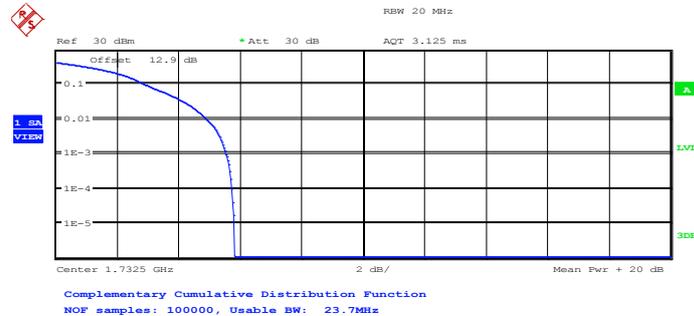
Peak-to-Average Ratio on LTE Band 4  
20MHz / 16QAM in Ch. 20050 (1RB Size)



Trace 1	
Mean	21.77 dBm
Peak	28.45 dBm
Crest	6.68 dB
10 %	3.04 dB
1 %	5.42 dB
.1 %	6.54 dB
.01 %	6.67 dB

Date: 25.JUN.2014 22:39:14

Peak-to-Average Ratio on LTE Band 4  
20MHz / 16QAM in Ch. 20175 (1RB Size)

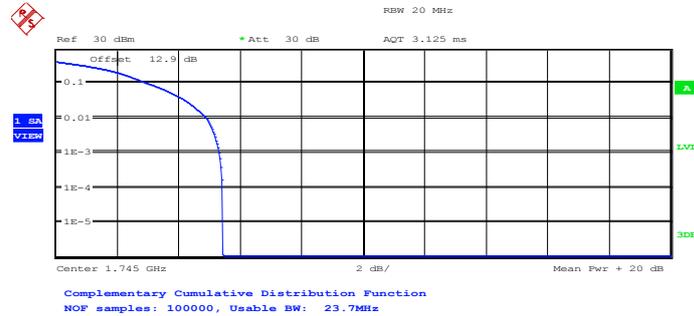


Trace 1	
Mean	21.88 dBm
Peak	27.69 dBm
Crest	5.82 dB
10 %	2.92 dB
1 %	4.90 dB
.1 %	5.54 dB
.01 %	5.74 dB

Date: 25.JUN.2014 22:39:38



Peak-to-Average Ratio on LTE Band 4  
20MHz / 16QAM in Ch. 20300 (1RB Size)



Trace 1	
Mean	22.10 dBm
Peak	27.53 dBm
Crest	5.43 dB
10 %	3.01 dB
1 %	4.90 dB
.1 %	5.32 dB
.01 %	5.42 dB

Date: 25.JUN.2014 22:40:05

Peak-to-Average Ratio on LTE Band 4  
20MHz / 16QAM in Ch. 20500 (100RB Size)



Trace 1	
Mean	20.98 dBm
Peak	28.45 dBm
Crest	7.47 dB
10 %	2.98 dB
1 %	5.03 dB
.1 %	6.25 dB
.01 %	6.99 dB

Date: 25.JUN.2014 22:39:26



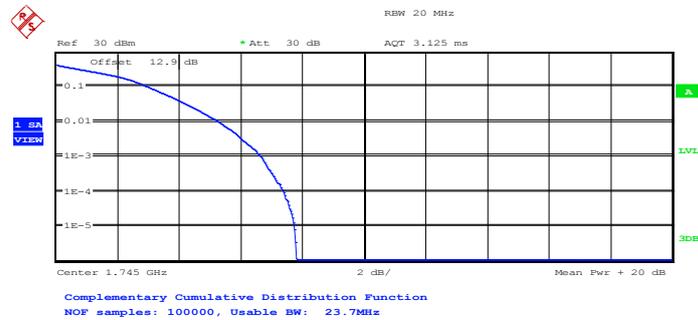
Peak-to-Average Ratio on LTE Band 4  
20MHz / 16QAM in Ch. 201750 (100RB Size)



Trace 1	
Mean	20.52 dBm
Peak	28.19 dBm
Crest	7.67 dB
10 %	3.01 dB
1 %	5.19 dB
.1 %	6.47 dB
.01 %	7.18 dB

Date: 25.JUN.2014 22:39:51

Peak-to-Average Ratio on LTE Band 4  
20MHz / 16QAM in Ch. 20300 (100RB Size)



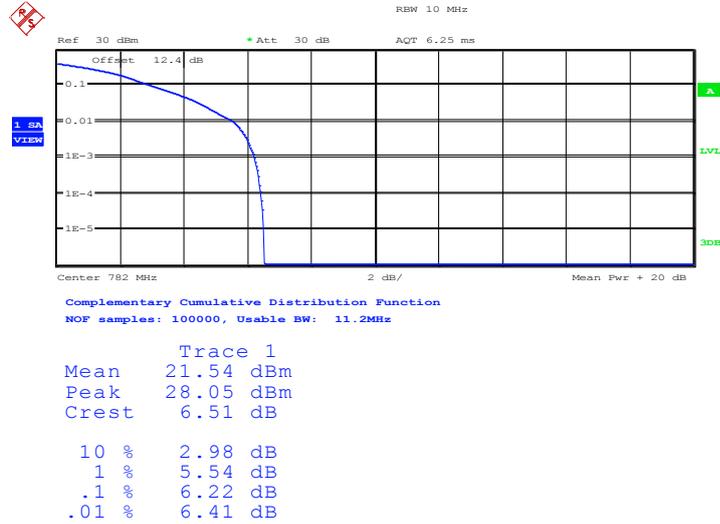
Trace 1	
Mean	20.65 dBm
Peak	28.45 dBm
Crest	7.80 dB
10 %	2.98 dB
1 %	5.26 dB
.1 %	6.63 dB
.01 %	7.37 dB

Date: 25.JUN.2014 22:40:22



Peak-to-Average Ratio on LTE Band 13

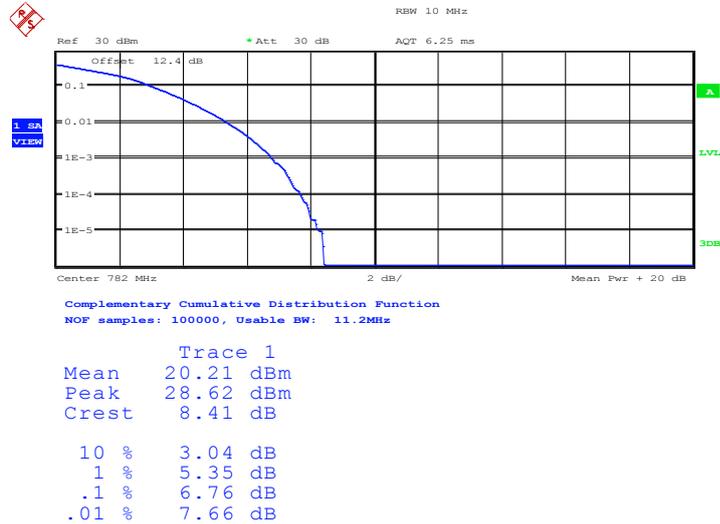
10MHz / 16QAM in Ch. 23230 (1RB Size)



Date: 28.JUN.2014 00:15:51

Peak-to-Average Ratio on LTE Band 13

10MHz / 16QAM in Ch. 23230 (50RB Size)

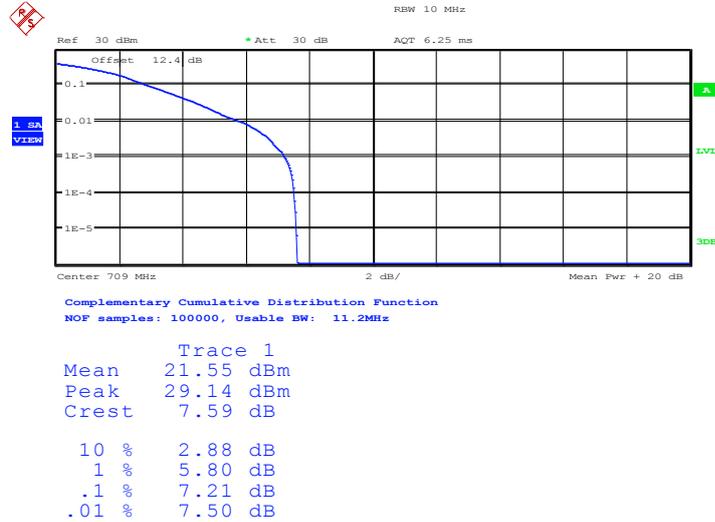


Date: 28.JUN.2014 00:15:35



Peak-to-Average Ratio on LTE Band 17

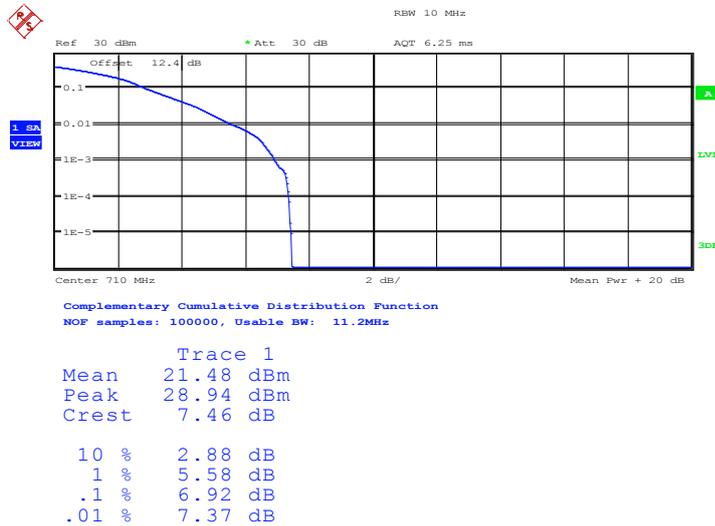
10MHz / 16QAM in Ch. 23780 (1RB Size)



Date: 26.JUN.2014 01:21:12

Peak-to-Average Ratio on LTE Band 17

10MHz / 16QAM in Ch. 23790 (1RB Size)

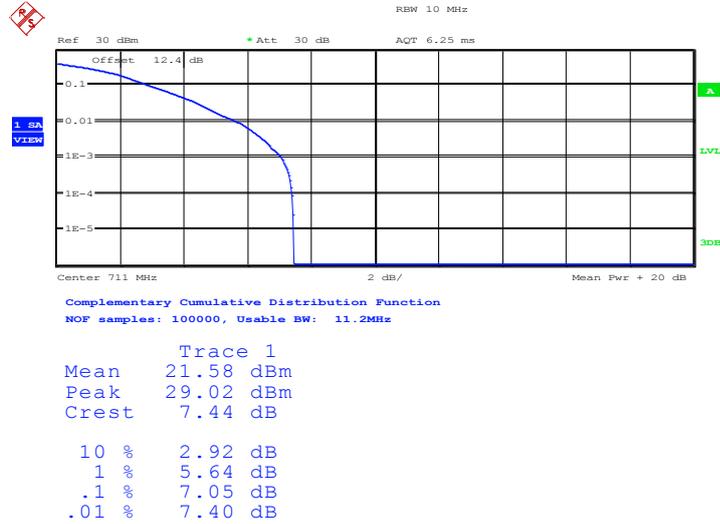


Date: 26.JUN.2014 01:21:45



Peak-to-Average Ratio on LTE Band 17

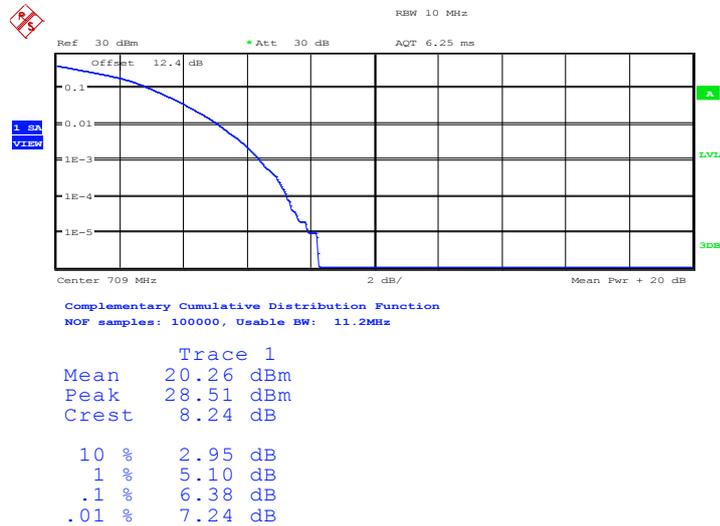
10MHz / 16QAM in Ch. 23800 (1RB Size)



Date: 26.JUN.2014 01:22:21

Peak-to-Average Ratio on LTE Band 17

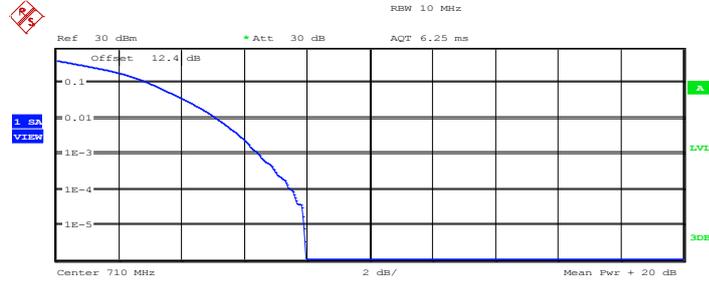
10MHz / 16QAM in Ch. 23780 (50RB Size)



Date: 26.JUN.2014 01:21:29



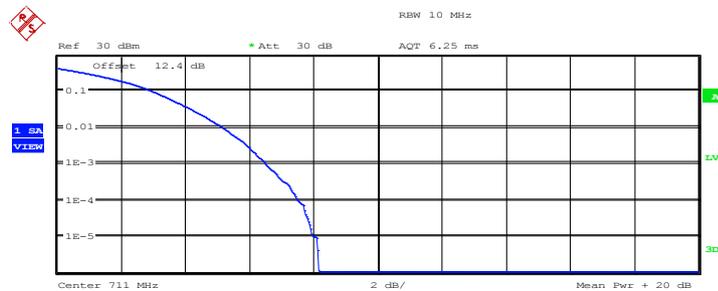
Peak-to-Average Ratio on LTE Band 17  
10MHz / 16QAM in Ch. 23790 (50RB Size)



Trace 1	
Mean	20.34 dBm
Peak	28.30 dBm
Crest	7.96 dB
10 %	2.98 dB
1 %	5.10 dB
.1 %	6.44 dB
.01 %	7.47 dB

Date: 26.JUN.2014 01:22:05

Peak-to-Average Ratio on LTE Band 17  
10MHz / 16QAM in Ch. 23800 (50RB Size)



Trace 1	
Mean	20.30 dBm
Peak	28.45 dBm
Crest	8.16 dB
10 %	2.98 dB
1 %	5.16 dB
.1 %	6.47 dB
.01 %	7.50 dB

Date: 26.JUN.2014 01:22:41

### 3.3 Occupied Bandwidth

#### 3.3.1 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.

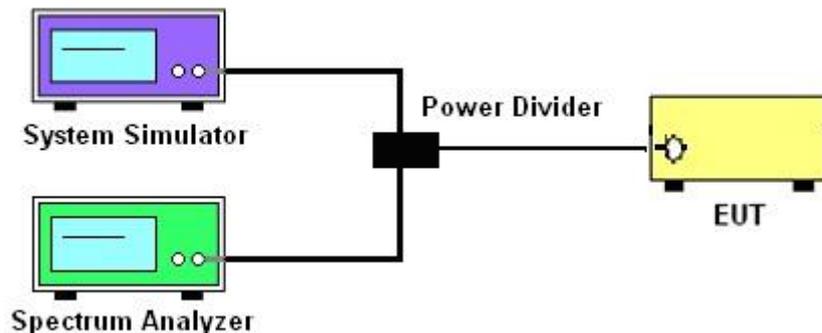
#### 3.3.2 Measuring Instruments

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

#### 3.3.3 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.

#### 3.3.4 Test Setup

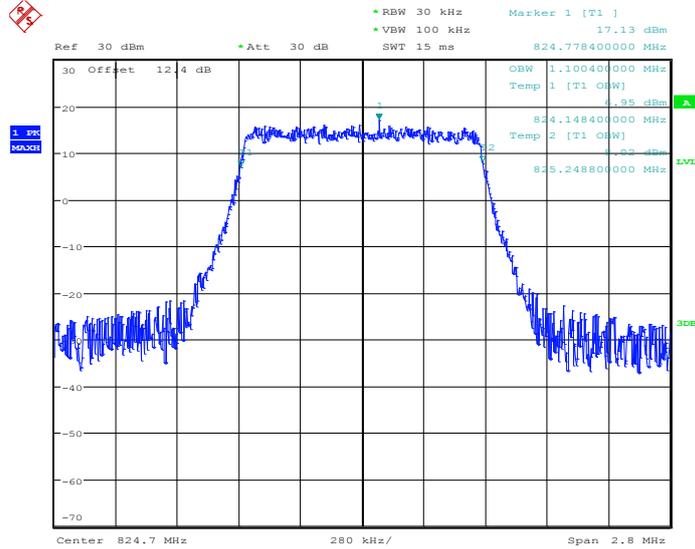




### 3.3.5 Test Result (Plots) of Occupied Bandwidth

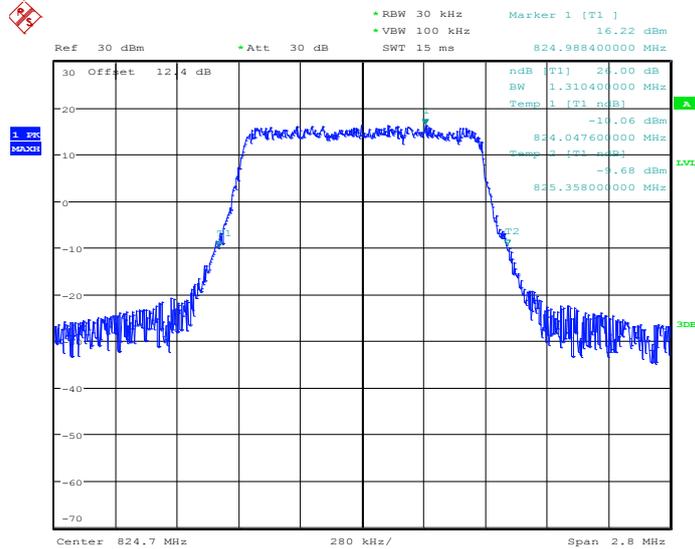
Band :	LTE Band 5	BW / Mod. :	1.4MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 20407



Date: 25.JUN.2014 22:41:42

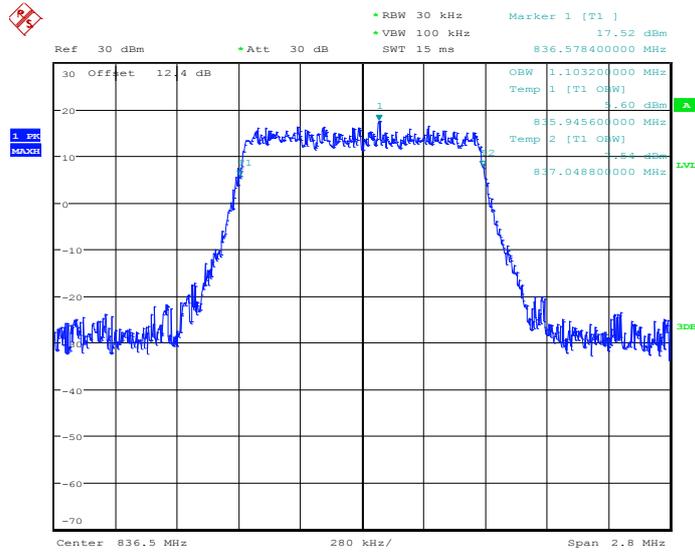
26dB Bandwidth Plot on Channel 20407



Date: 25.JUN.2014 22:42:27

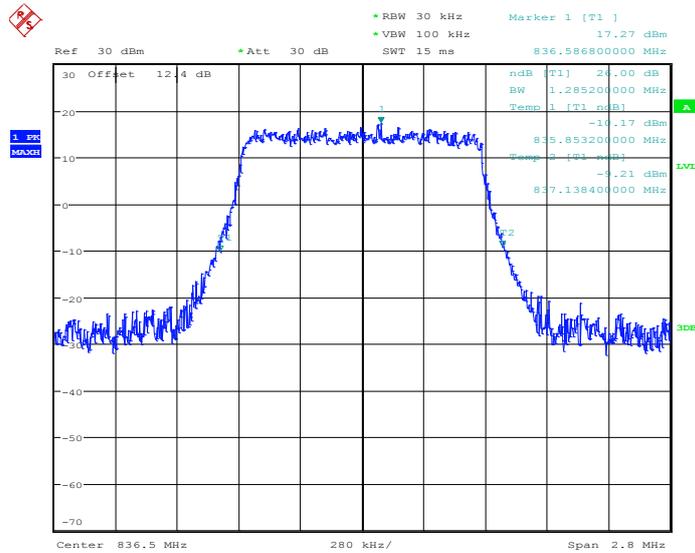


99% Occupied Bandwidth Plot on Channel 20525



Date: 25.JUN.2014 22:47:39

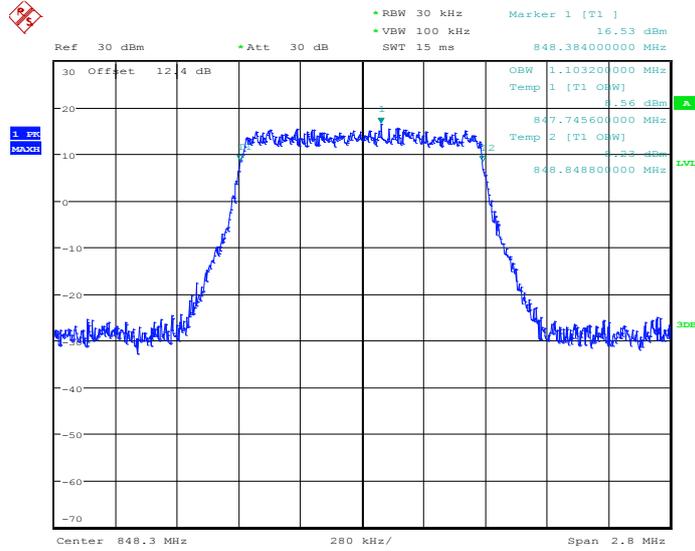
26dB Bandwidth Plot on Channel 20525



Date: 25.JUN.2014 22:48:08

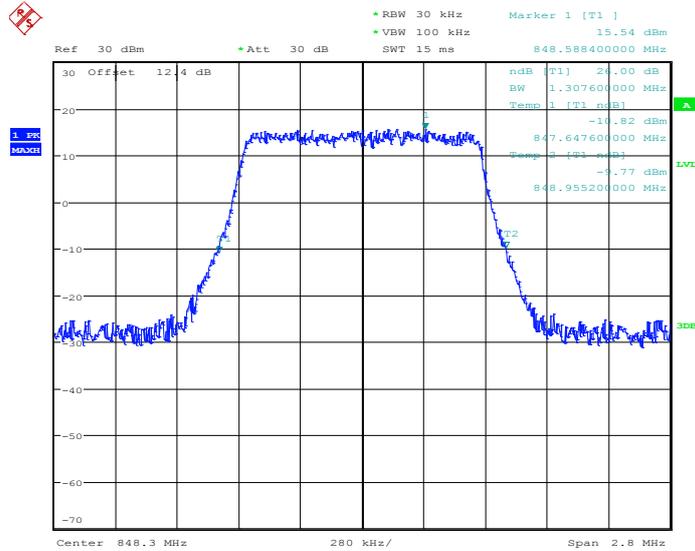


99% Occupied Bandwidth Plot on Channel 20643



Date: 25.JUN.2014 22:50:34

26dB Bandwidth Plot on Channel 20643

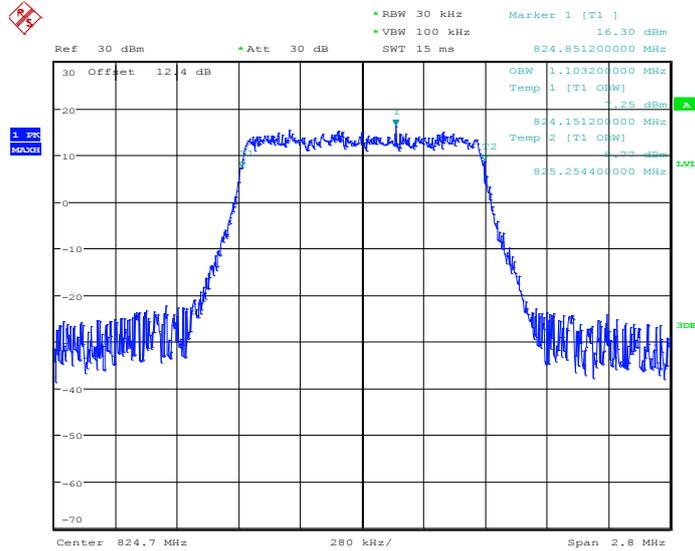


Date: 25.JUN.2014 22:51:04



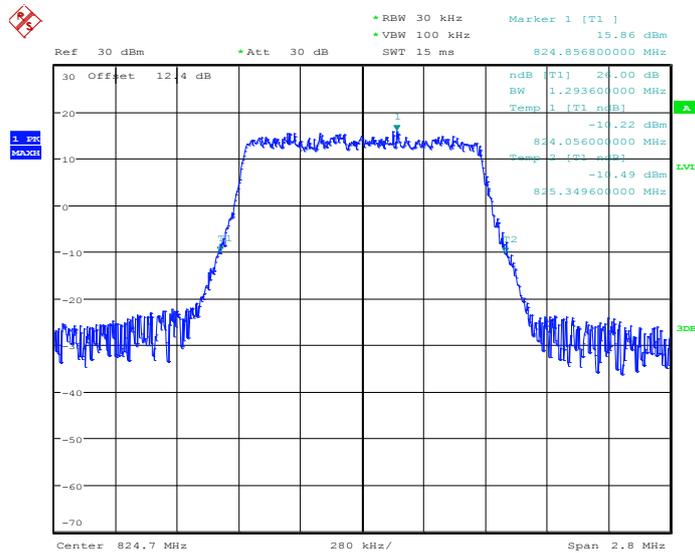
Band :	LTE Band 5	BW / Mod. :	1.4MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 20407



Date: 25.JUN.2014 22:41:56

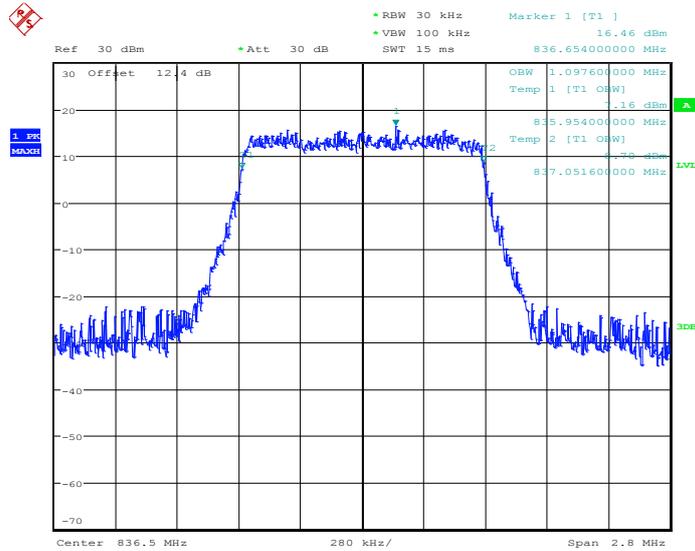
26dB Bandwidth Plot on Channel 20407



Date: 25.JUN.2014 22:42:11

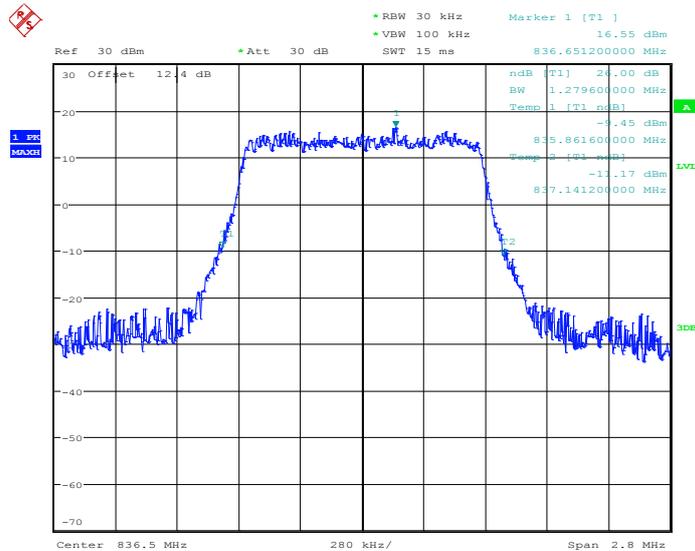


### 99% Occupied Bandwidth Plot on Channel 20525



Date: 25.JUN.2014 22:47:52

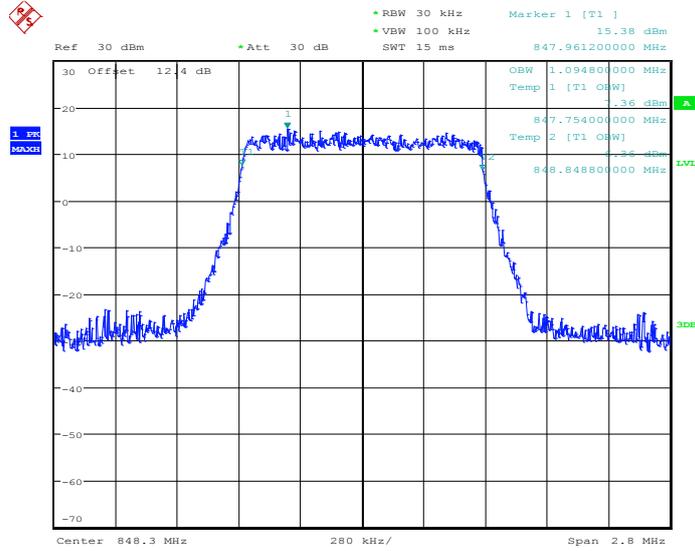
### 26dB Bandwidth Plot on Channel 20525



Date: 25.JUN.2014 22:48:24

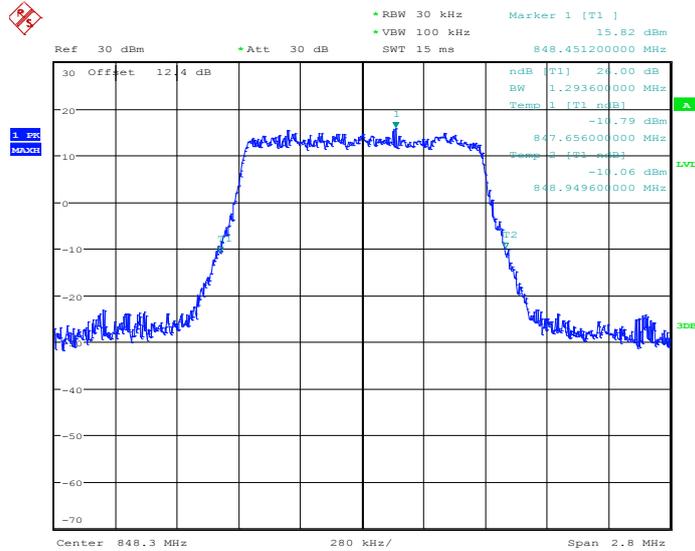


99% Occupied Bandwidth Plot on Channel 20643



Date: 25.JUN.2014 22:50:48

26dB Bandwidth Plot on Channel 20643

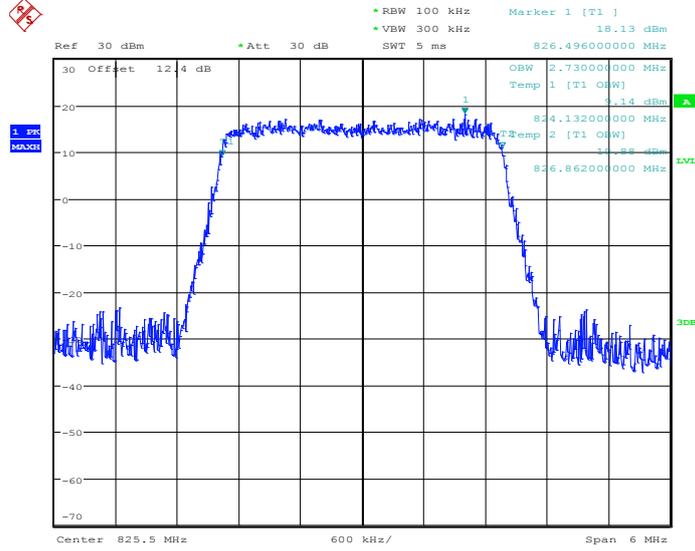


Date: 25.JUN.2014 22:51:20



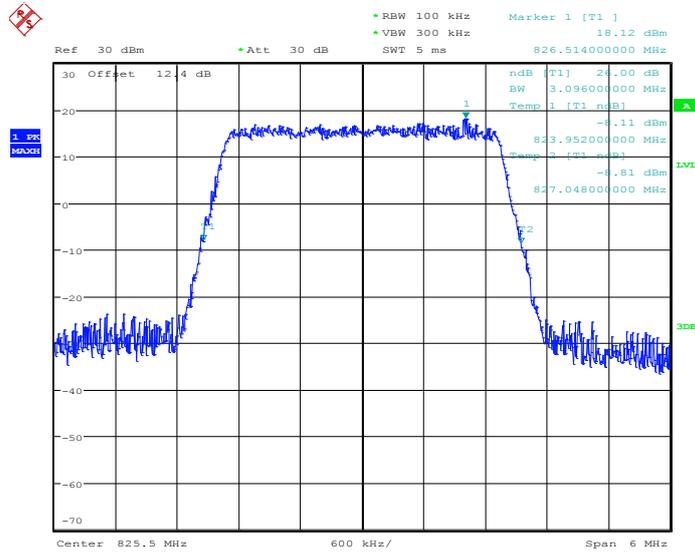
Band :	LTE Band 5	BW / Mod. :	3MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 20415



Date: 25.JUN.2014 22:56:36

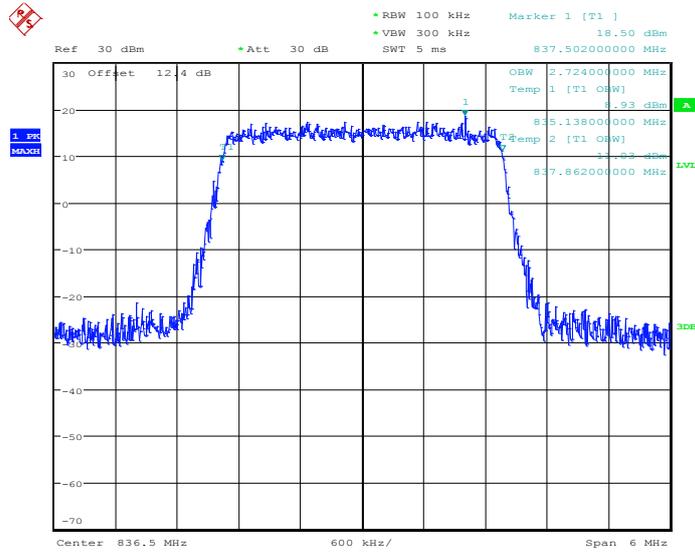
26dB Bandwidth Plot on Channel 20415



Date: 25.JUN.2014 22:57:06

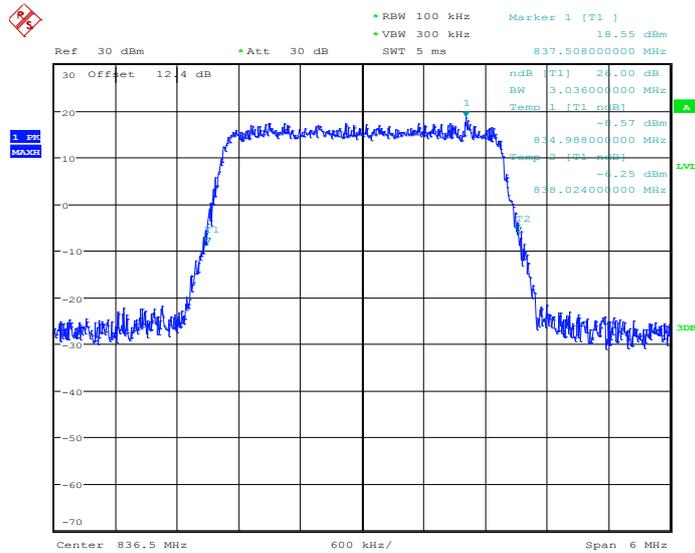


99% Occupied Bandwidth Plot on Channel 20525



Date: 25.JUN.2014 23:02:33

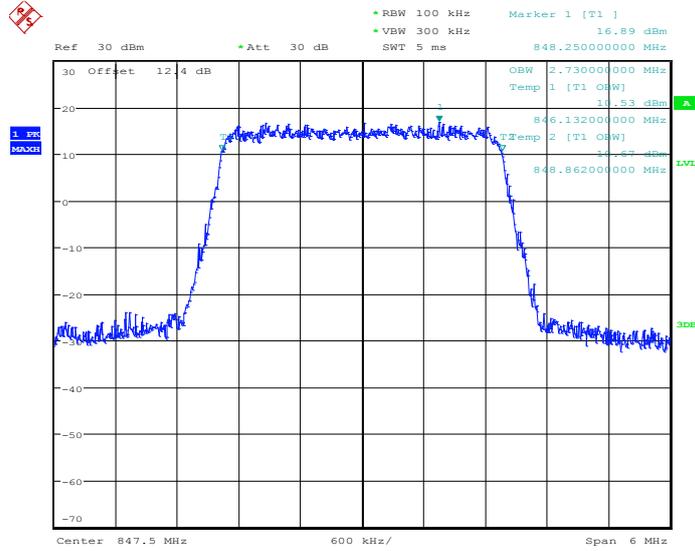
26dB Bandwidth Plot on Channel 20525



Date: 25.JUN.2014 23:03:02

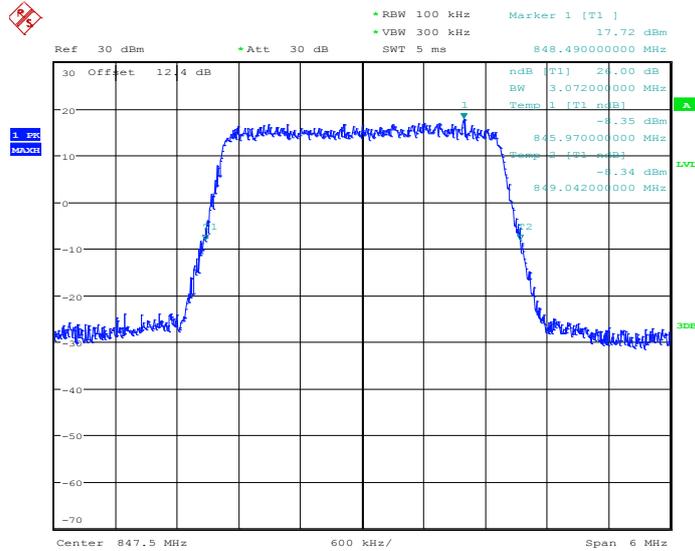


99% Occupied Bandwidth Plot on Channel 20635



Date: 25.JUN.2014 23:05:29

26dB Bandwidth Plot on Channel 20635

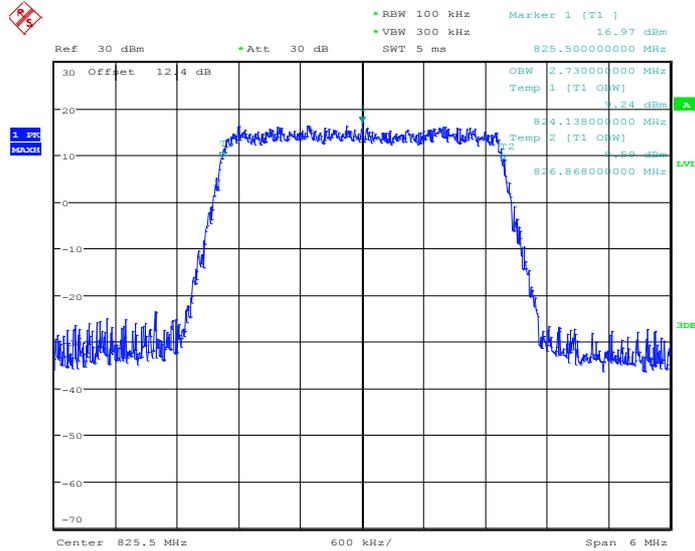


Date: 25.JUN.2014 23:05:58



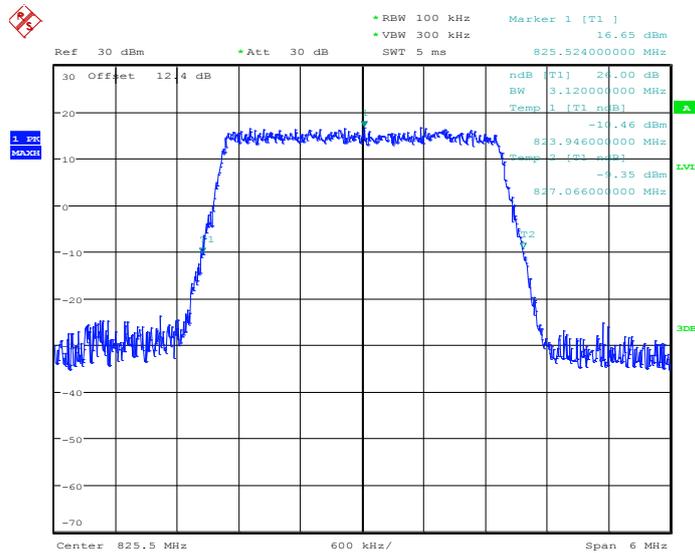
<b>Band :</b>	LTE Band 5	<b>BW / Mod. :</b>	3MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 20415



Date: 25.JUN.2014 22:56:50

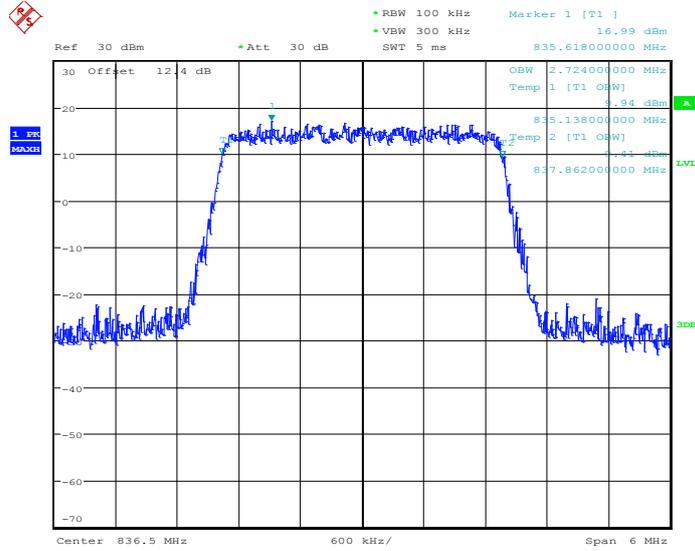
26dB Bandwidth Plot on Channel 20415



Date: 25.JUN.2014 22:57:21

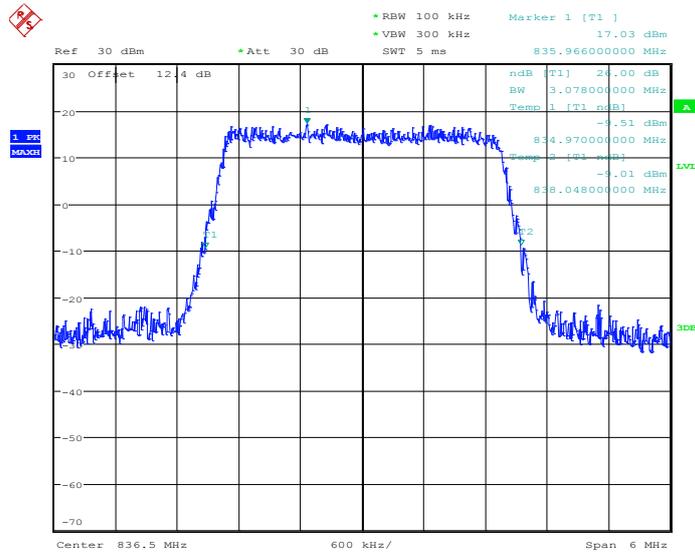


### 99% Occupied Bandwidth Plot on Channel 20525



Date: 25.JUN.2014 23:02:47

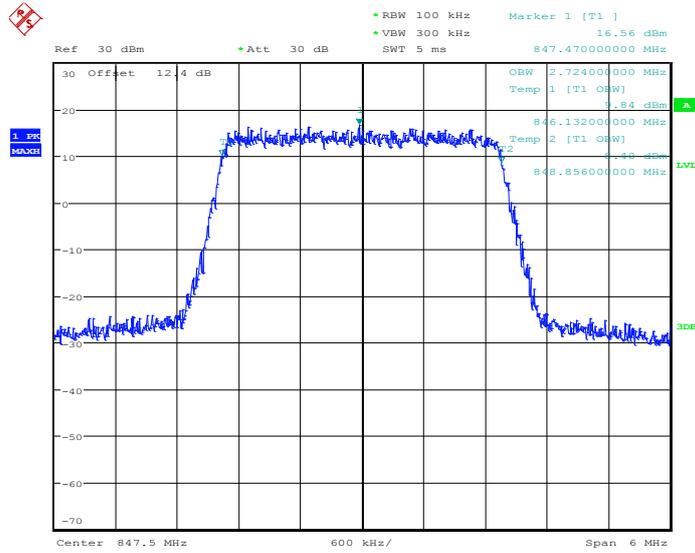
### 26dB Bandwidth Plot on Channel 20525



Date: 25.JUN.2014 23:03:18

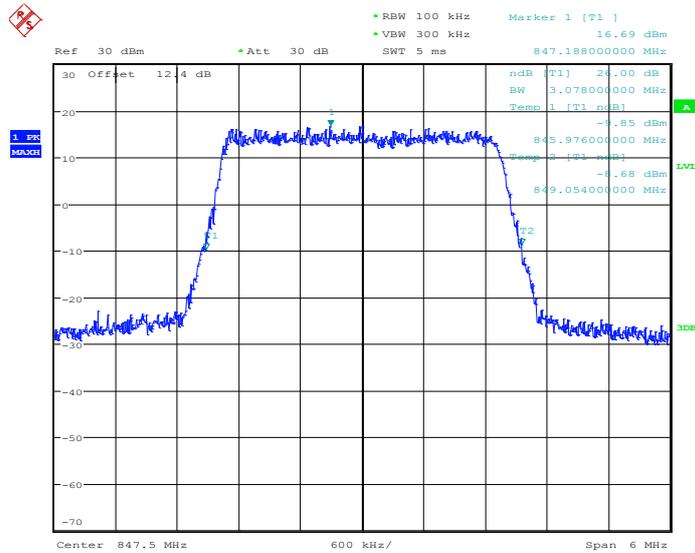


99% Occupied Bandwidth Plot on Channel 20635



Date: 25.JUN.2014 23:05:42

26dB Bandwidth Plot on Channel 20635

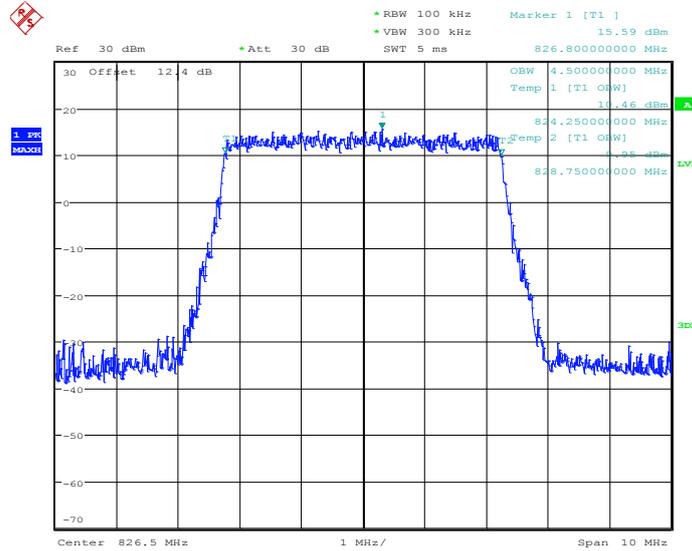


Date: 25.JUN.2014 23:06:14



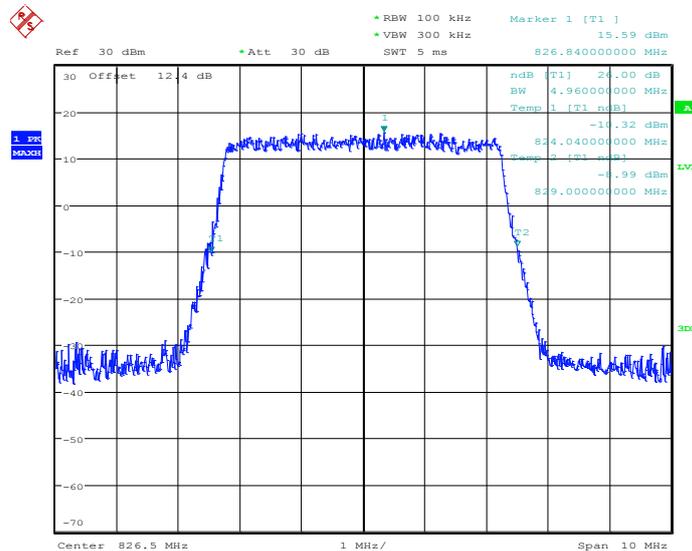
Band :	LTE Band 5	BW / Mod. :	5MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 20425



Date: 25.JUN.2014 23:11:30

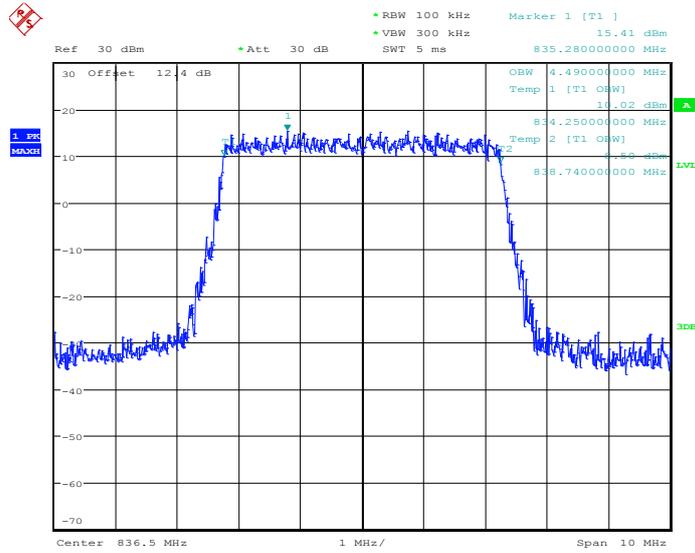
26dB Bandwidth Plot on Channel 20425



Date: 25.JUN.2014 23:11:59

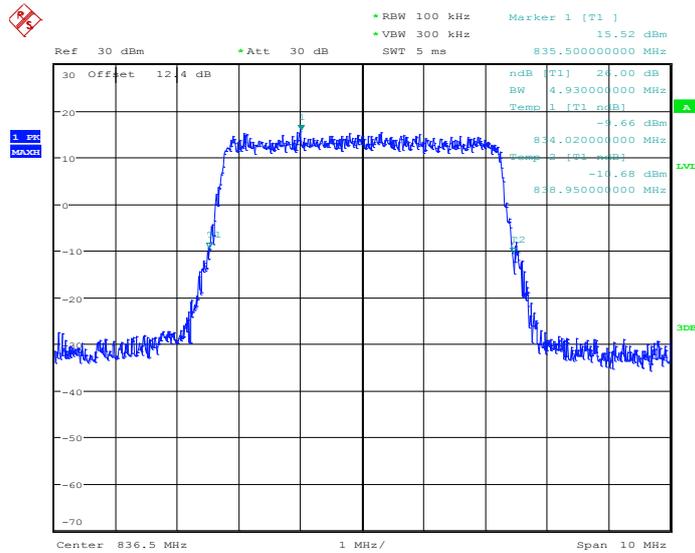


99% Occupied Bandwidth Plot on Channel 20525



Date: 25.JUN.2014 23:17:27

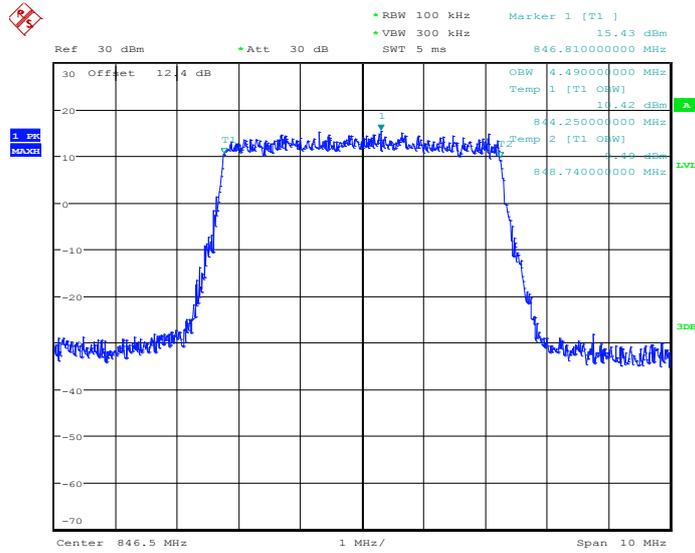
26dB Bandwidth Plot on Channel 20525



Date: 25.JUN.2014 23:17:56

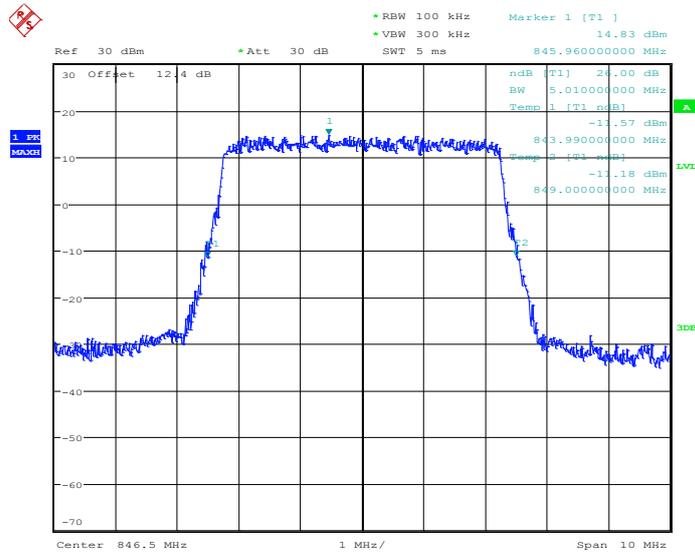


### 99% Occupied Bandwidth Plot on Channel 20625



Date: 25.JUN.2014 23:20:23

### 26dB Bandwidth Plot on Channel 20625

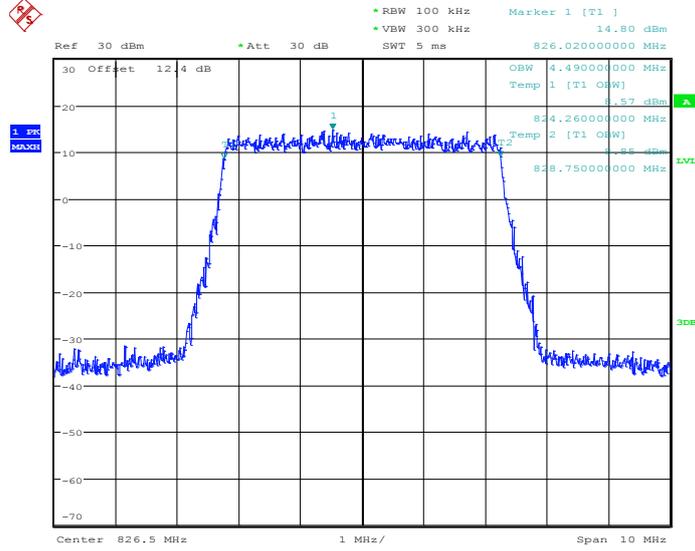


Date: 25.JUN.2014 23:20:52



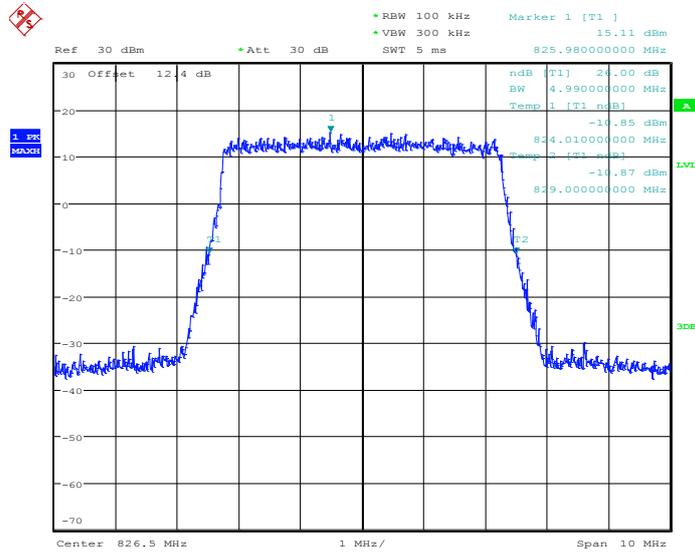
<b>Band :</b>	LTE Band 5	<b>BW / Mod. :</b>	5MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 20425



Date: 25.JUN.2014 23:11:44

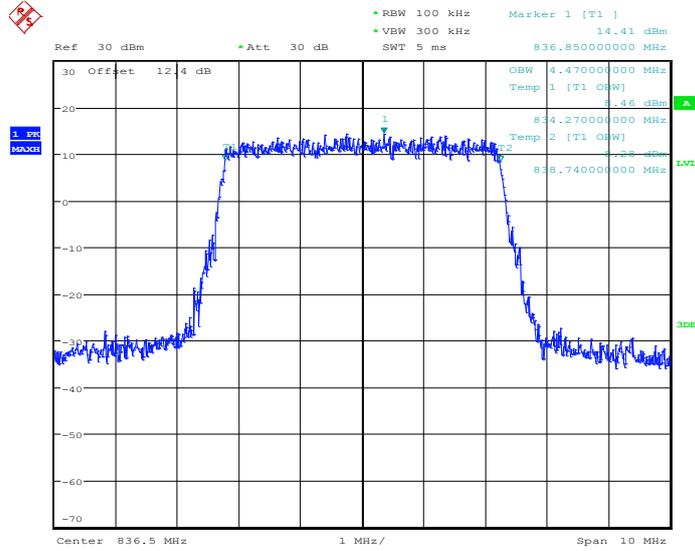
26dB Bandwidth Plot on Channel 20425



Date: 25.JUN.2014 23:12:15

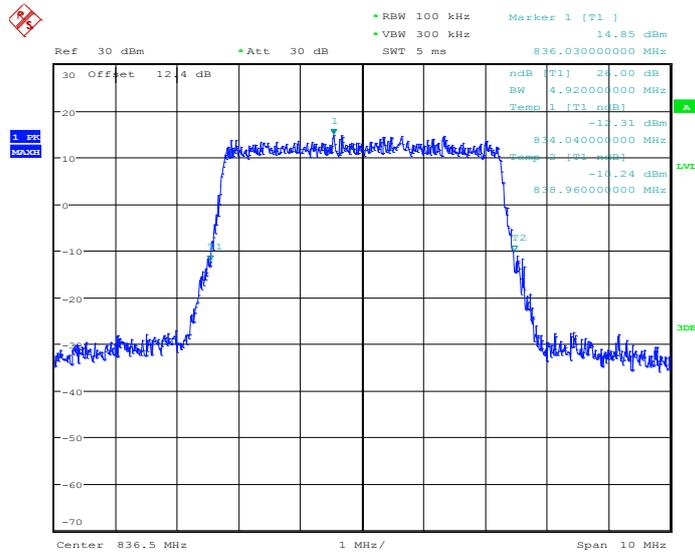


99% Occupied Bandwidth Plot on Channel 20525



Date: 25.JUN.2014 23:17:41

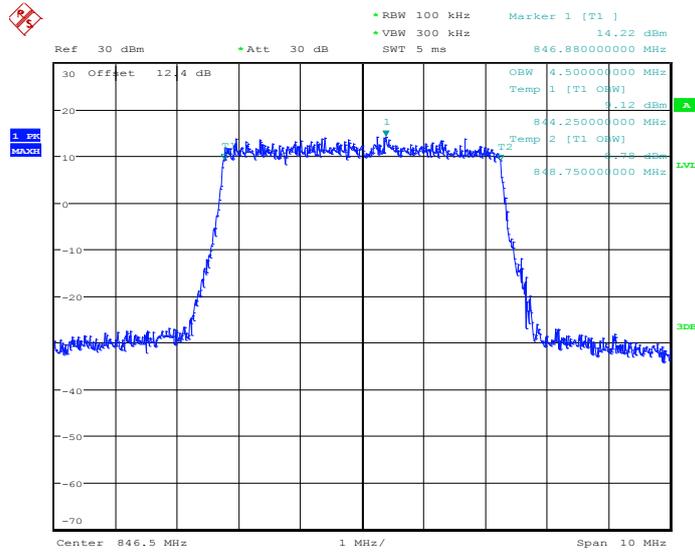
26dB Bandwidth Plot on Channel 20525



Date: 25.JUN.2014 23:18:12

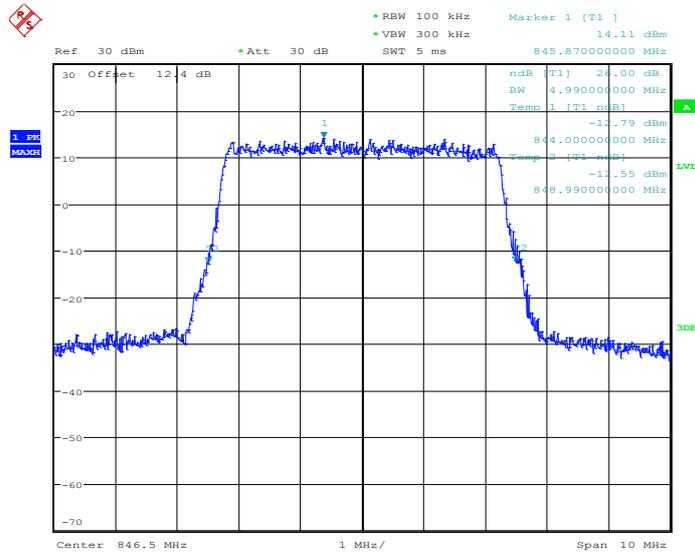


99% Occupied Bandwidth Plot on Channel 20625



Date: 25.JUN.2014 23:20:36

26dB Bandwidth Plot on Channel 20625

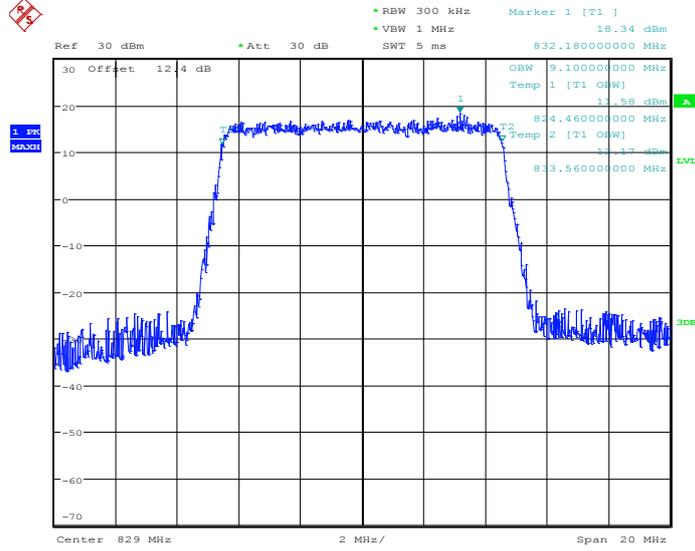


Date: 25.JUN.2014 23:21:08



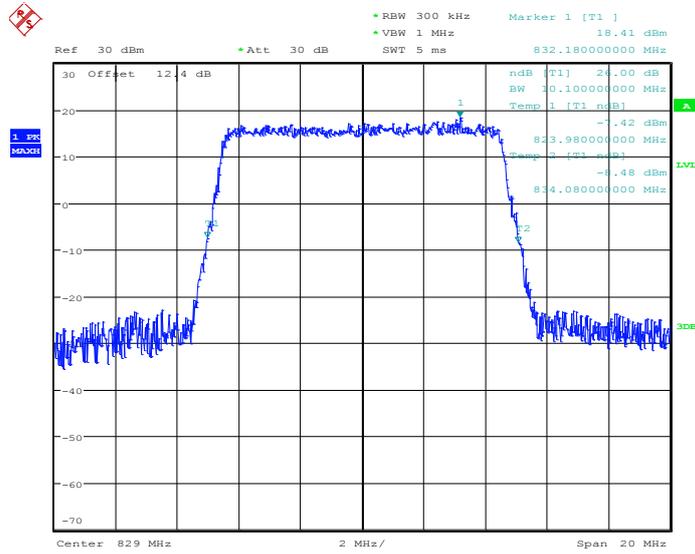
<b>Band :</b>	LTE Band 5	<b>BW / Mod. :</b>	10MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 20450



Date: 25.JUN.2014 23:26:25

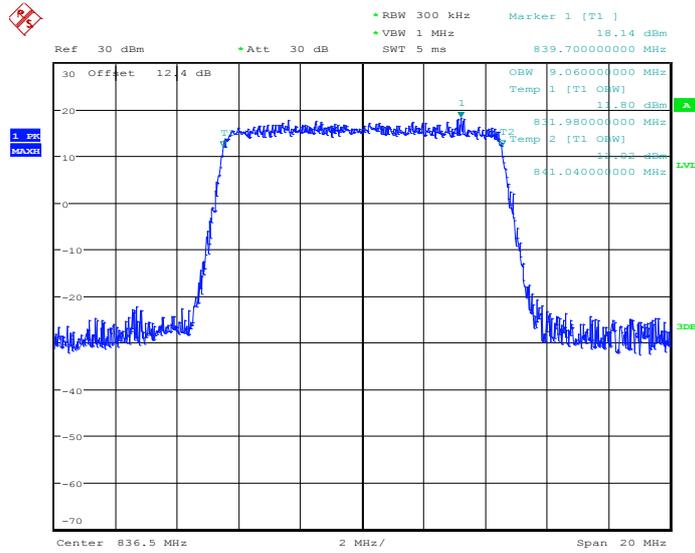
26dB Bandwidth Plot on Channel 20450



Date: 25.JUN.2014 23:26:54

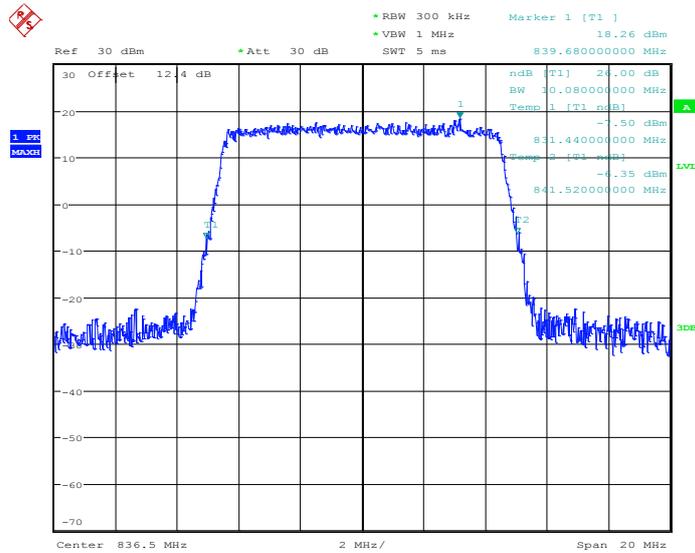


99% Occupied Bandwidth Plot on Channel 20525



Date: 25.JUN.2014 23:32:22

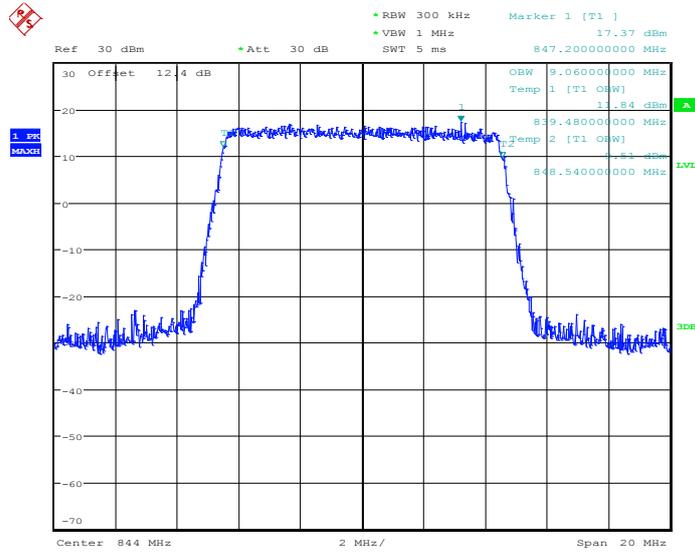
26dB Bandwidth Plot on Channel 20525



Date: 25.JUN.2014 23:32:52

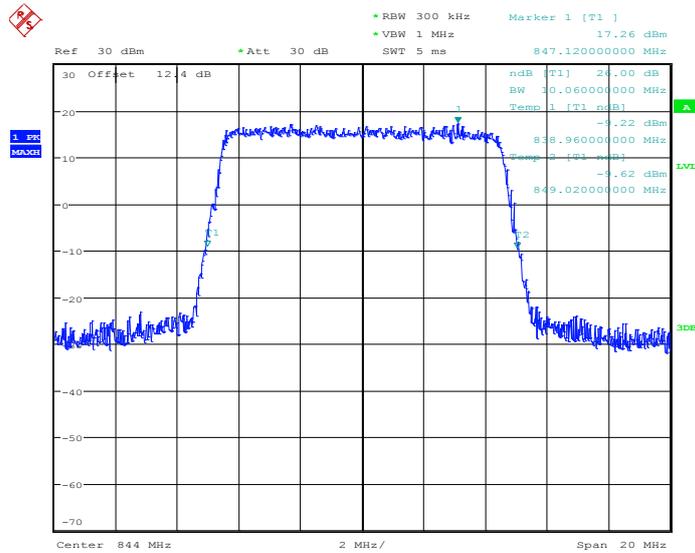


99% Occupied Bandwidth Plot on Channel 20600



Date: 25.JUN.2014 23:35:19

26dB Bandwidth Plot on Channel 20600

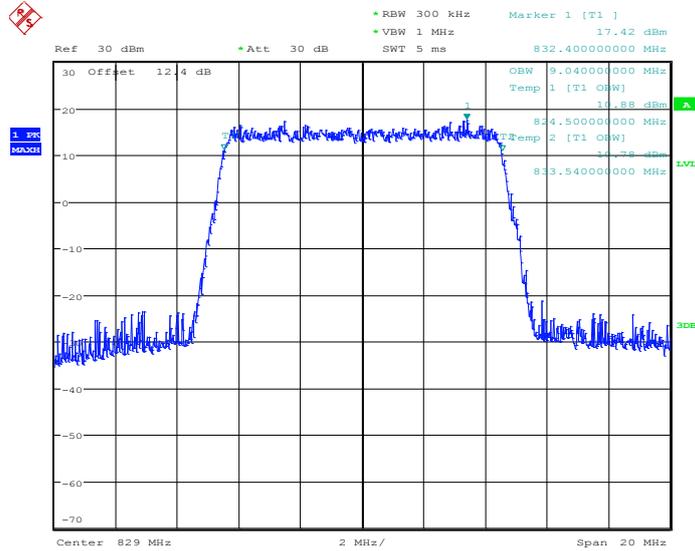


Date: 25.JUN.2014 23:35:48



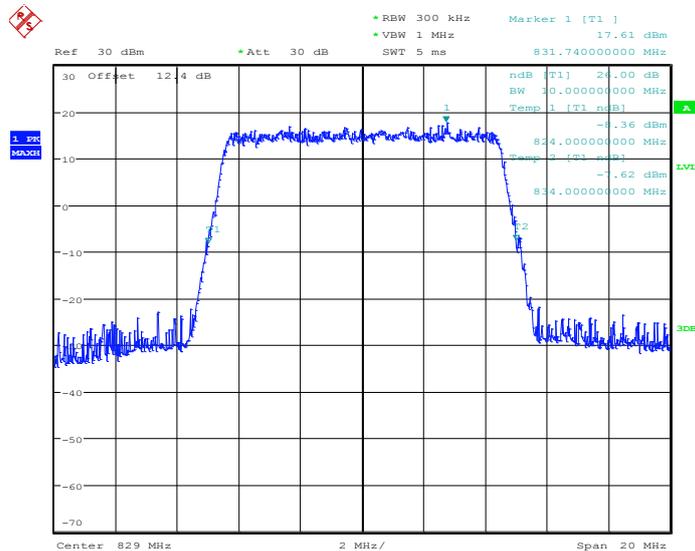
<b>Band :</b>	LTE Band 5	<b>BW / Mod. :</b>	10MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 20450



Date: 25.JUN.2014 23:26:39

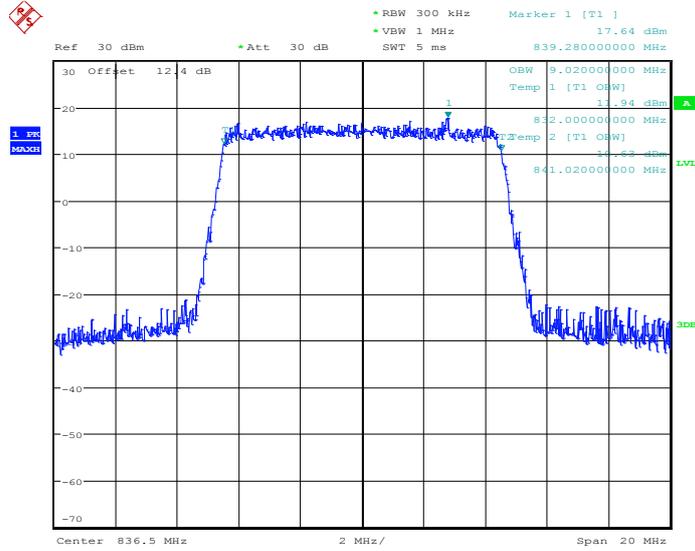
26dB Bandwidth Plot on Channel 20450



Date: 25.JUN.2014 23:27:10

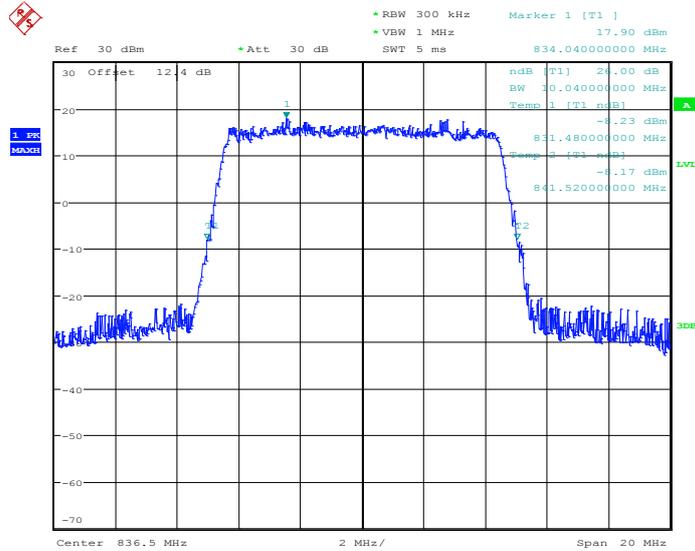


99% Occupied Bandwidth Plot on Channel 20525



Date: 25.JUN.2014 23:32:36

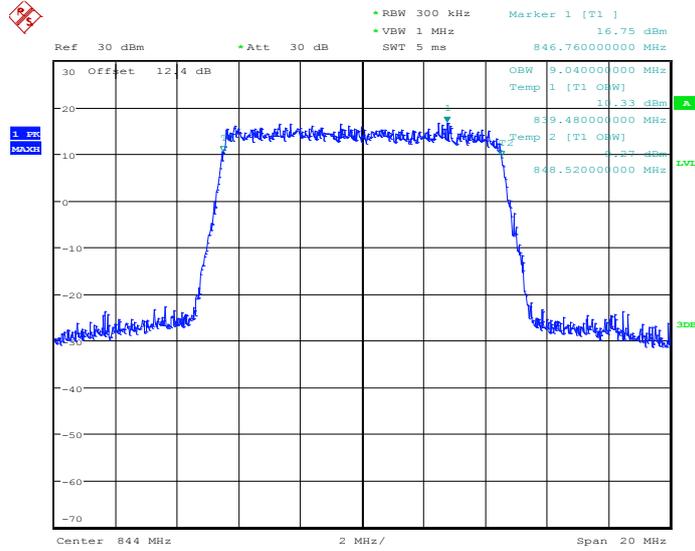
26dB Bandwidth Plot on Channel 20525



Date: 25.JUN.2014 23:33:08

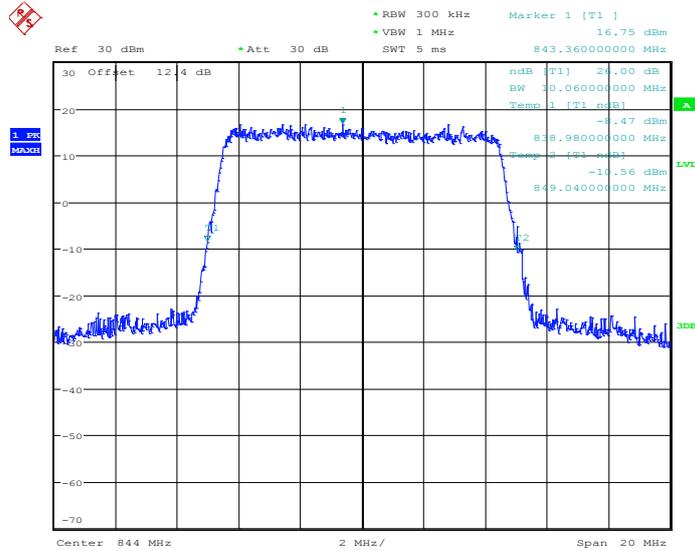


99% Occupied Bandwidth Plot on Channel 20600



Date: 25.JUN.2014 23:35:32

26dB Bandwidth Plot on Channel 20600

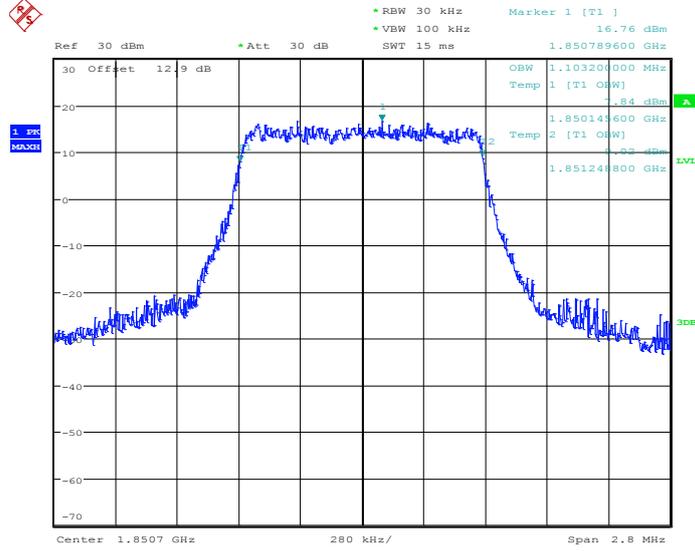


Date: 25.JUN.2014 23:36:04



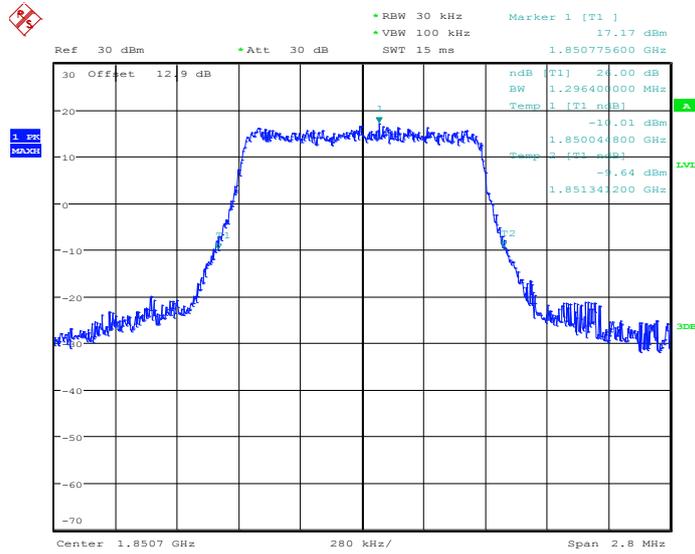
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	1.4MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 18607



Date: 25.JUN.2014 19:28:31

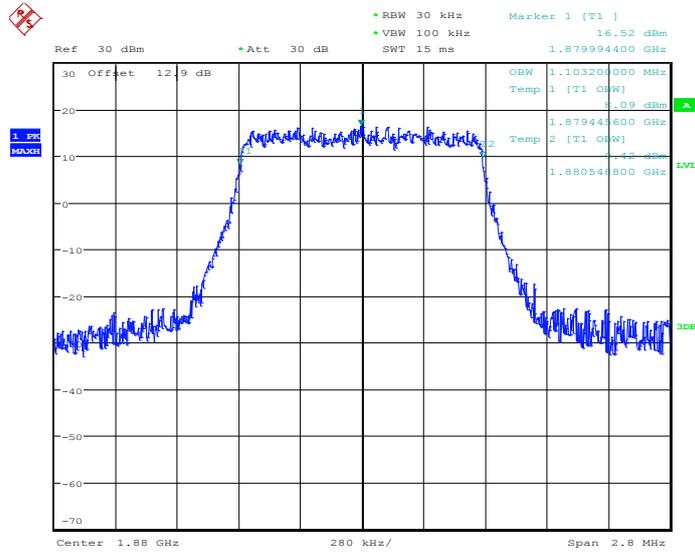
26dB Bandwidth Plot on Channel 18607



Date: 25.JUN.2014 19:29:00

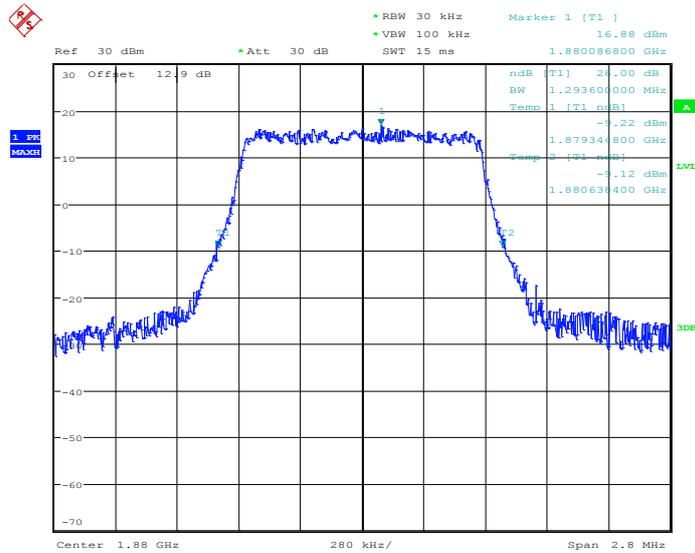


99% Occupied Bandwidth Plot on Channel 18900



Date: 25.JUN.2014 19:34:27

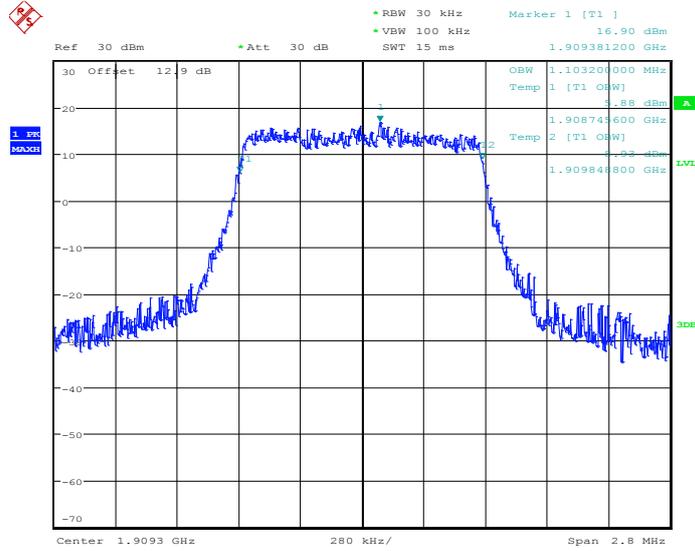
26dB Bandwidth Plot on Channel 18900



Date: 25.JUN.2014 19:34:57

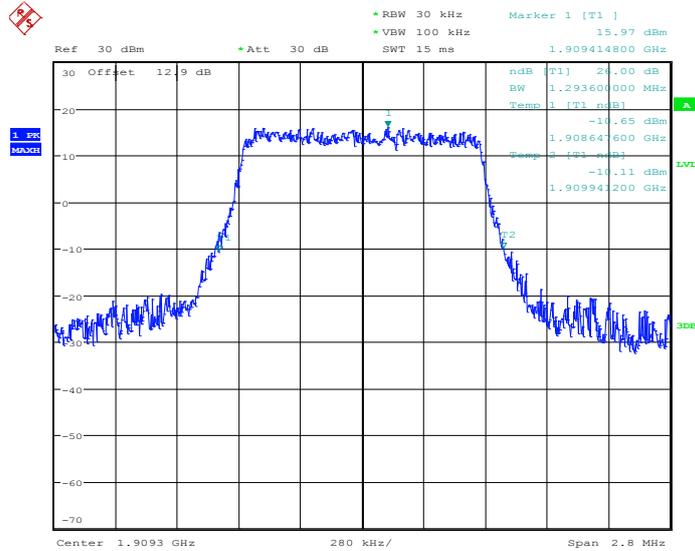


### 99% Occupied Bandwidth Plot on Channel 19193



Date: 25.JUN.2014 19:37:24

### 26dB Bandwidth Plot on Channel 19193

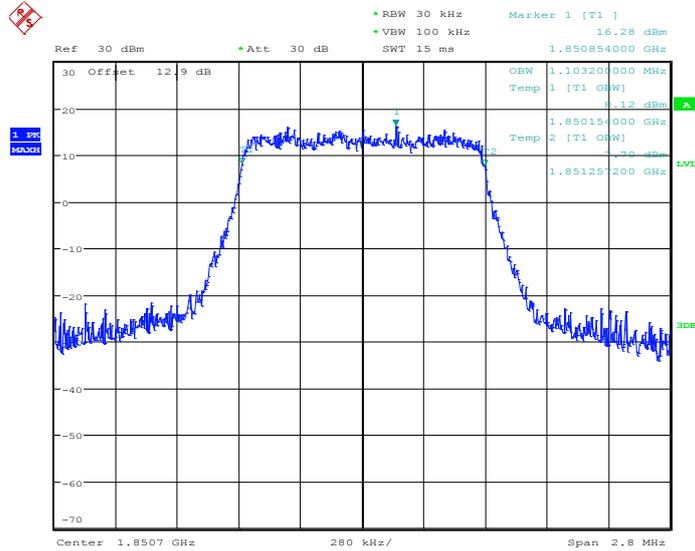


Date: 25.JUN.2014 19:37:53



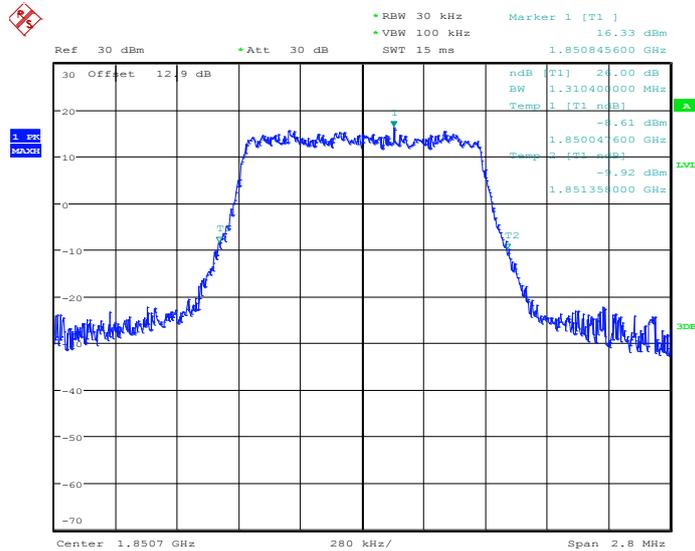
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	1.4MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 18607



Date: 25.JUN.2014 19:28:45

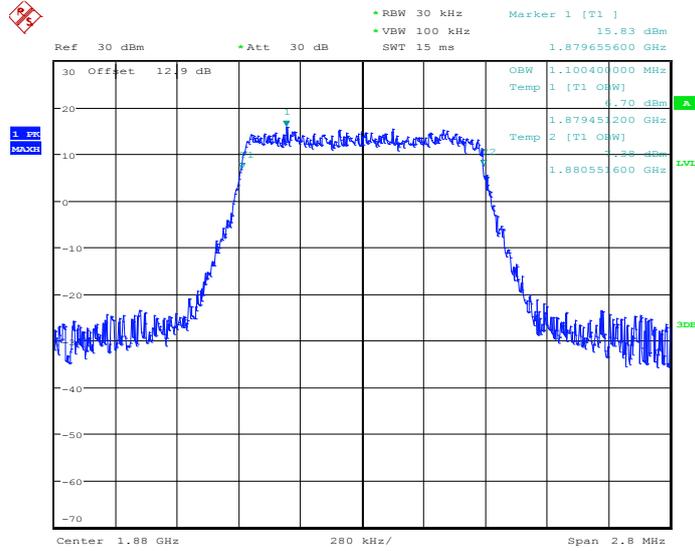
26dB Bandwidth Plot on Channel 18607



Date: 25.JUN.2014 19:29:16

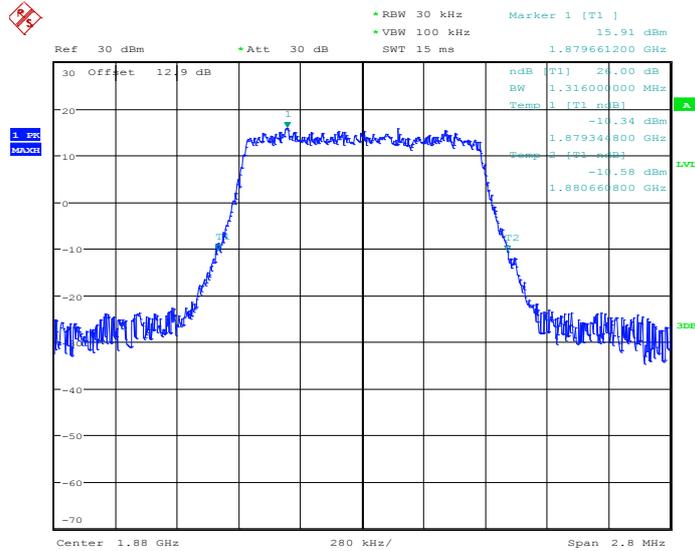


99% Occupied Bandwidth Plot on Channel 18900



Date: 25.JUN.2014 19:34:41

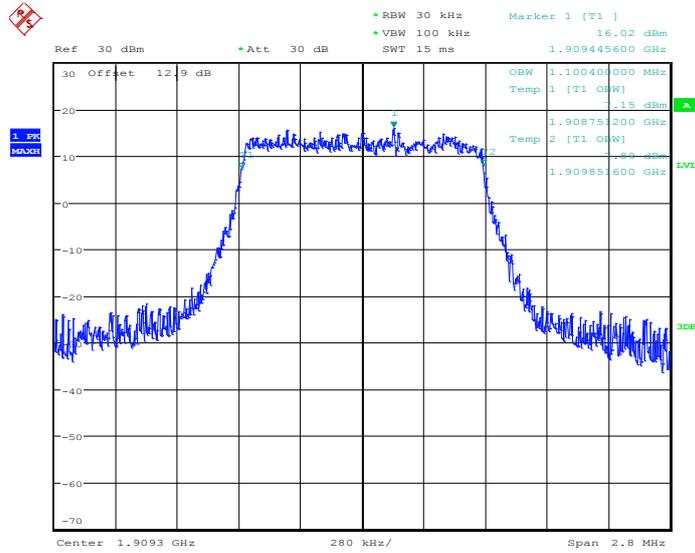
26dB Bandwidth Plot on Channel 18900



Date: 25.JUN.2014 19:35:13

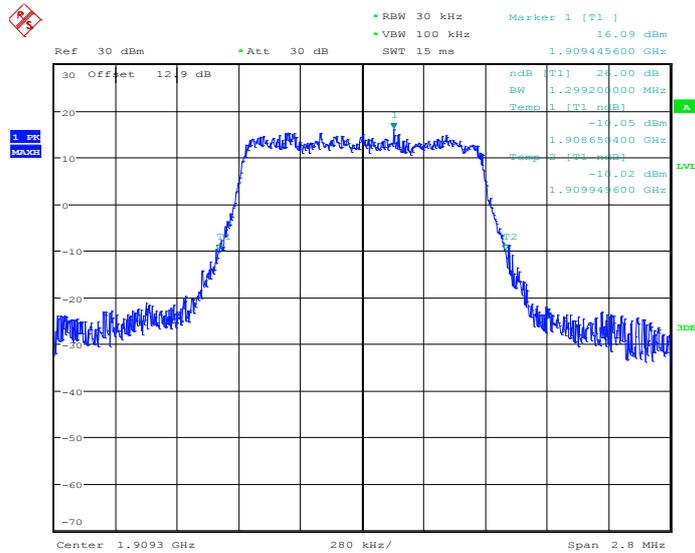


99% Occupied Bandwidth Plot on Channel 19193



Date: 25.JUN.2014 19:37:37

26dB Bandwidth Plot on Channel 19193

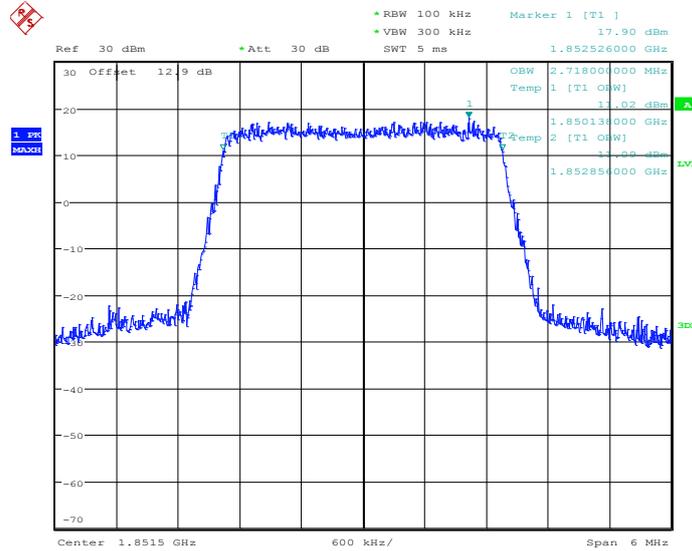


Date: 25.JUN.2014 19:38:09



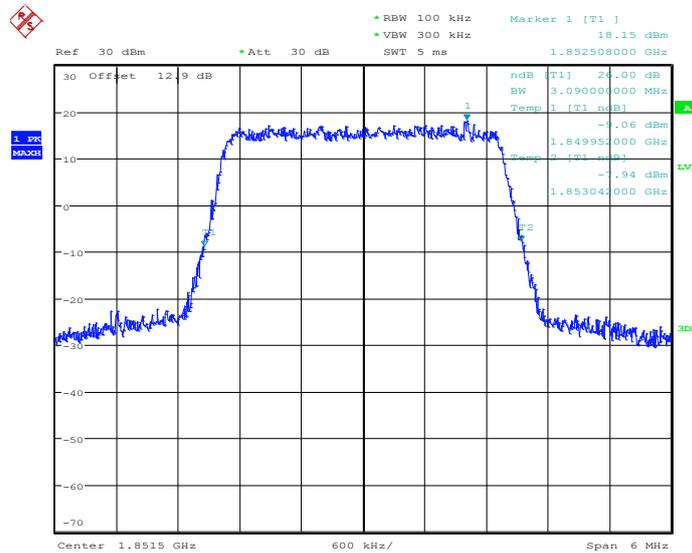
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	3MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 18615



Date: 25.JUN.2014 19:43:25

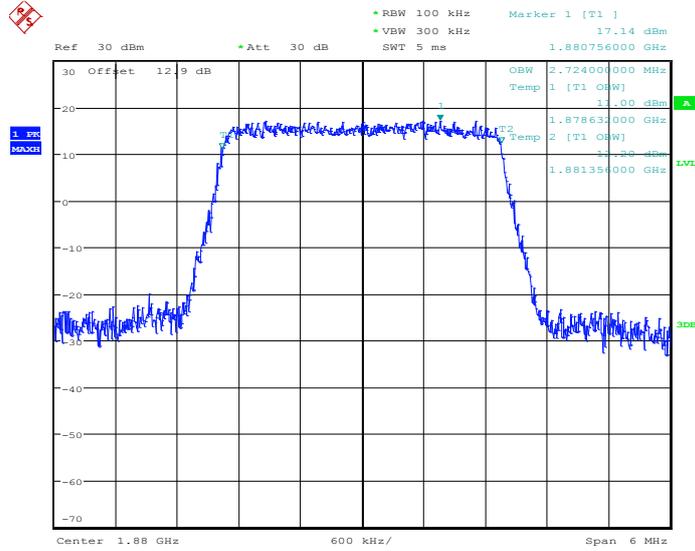
26dB Bandwidth Plot on Channel 18615



Date: 25.JUN.2014 19:43:54

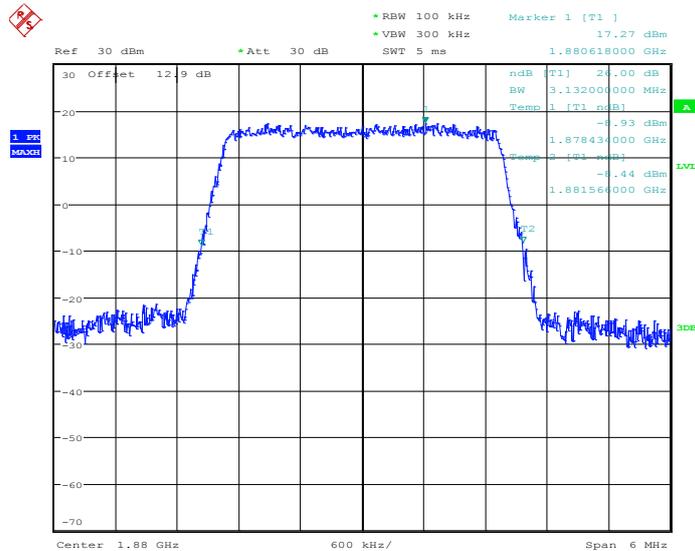


### 99% Occupied Bandwidth Plot on Channel 18900



Date: 25.JUN.2014 19:49:22

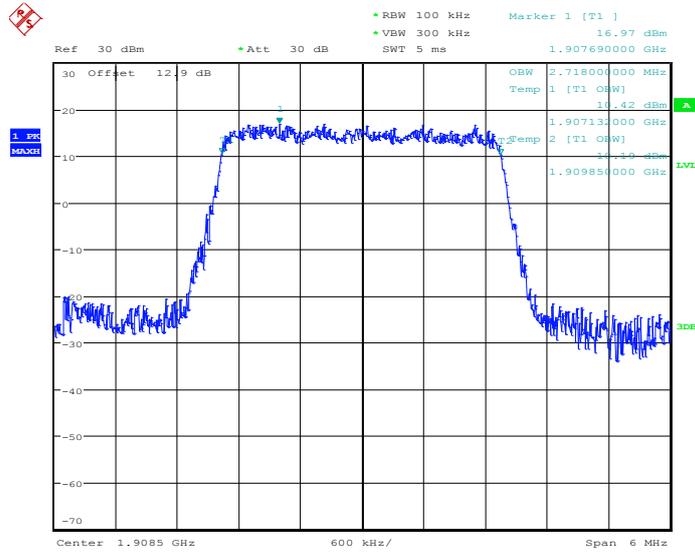
### 26dB Bandwidth Plot on Channel 18900



Date: 25.JUN.2014 19:49:51

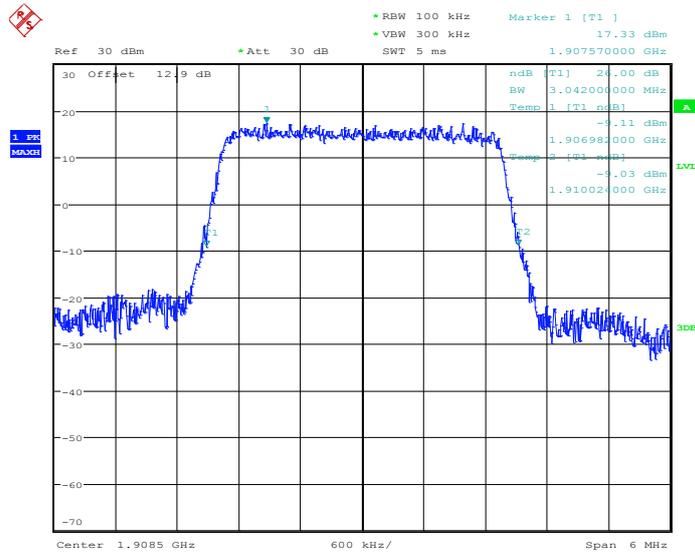


### 99% Occupied Bandwidth Plot on Channel 19185



Date: 25.JUN.2014 19:52:18

### 26dB Bandwidth Plot on Channel 19185

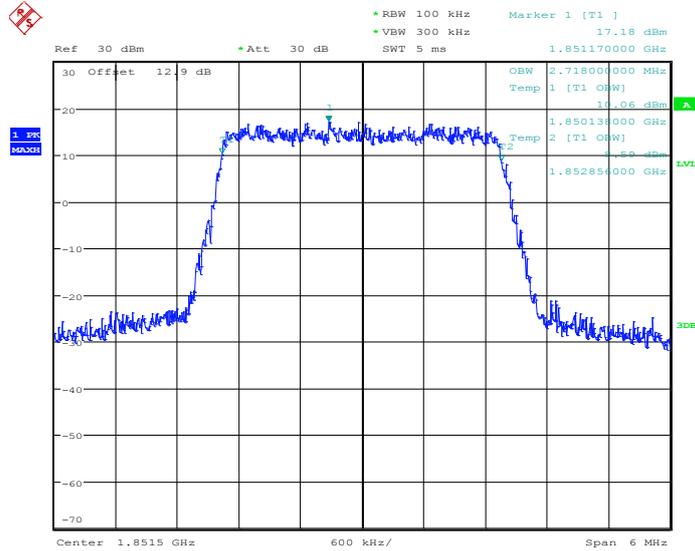


Date: 25.JUN.2014 19:52:47



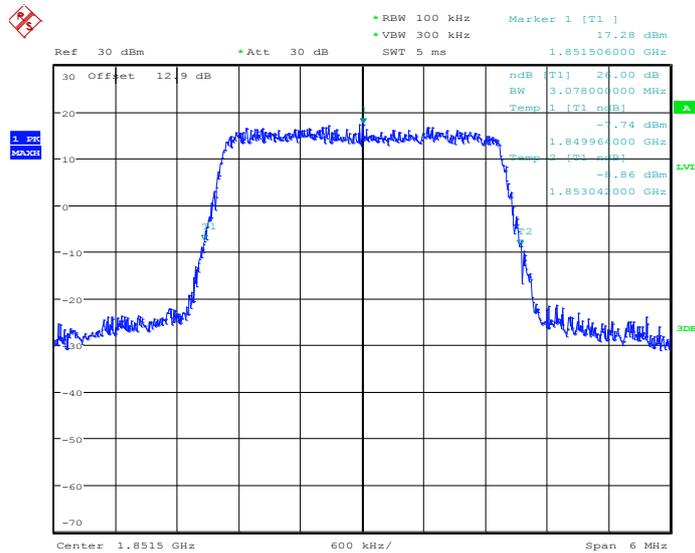
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	3MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 18615



Date: 25.JUN.2014 19:43:39

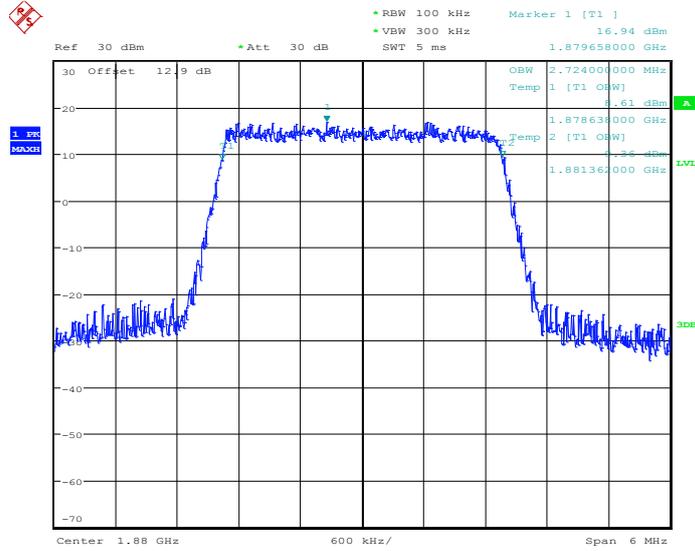
26dB Bandwidth Plot on Channel 18615



Date: 25.JUN.2014 19:44:10

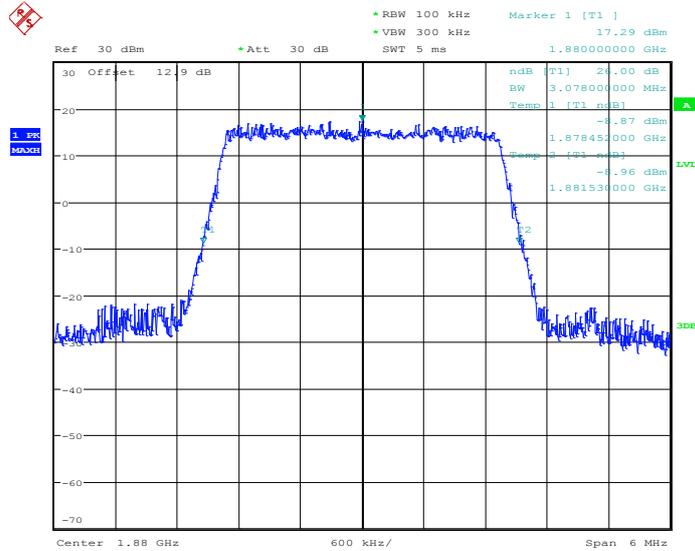


### 99% Occupied Bandwidth Plot on Channel 18900



Date: 25.JUN.2014 19:49:36

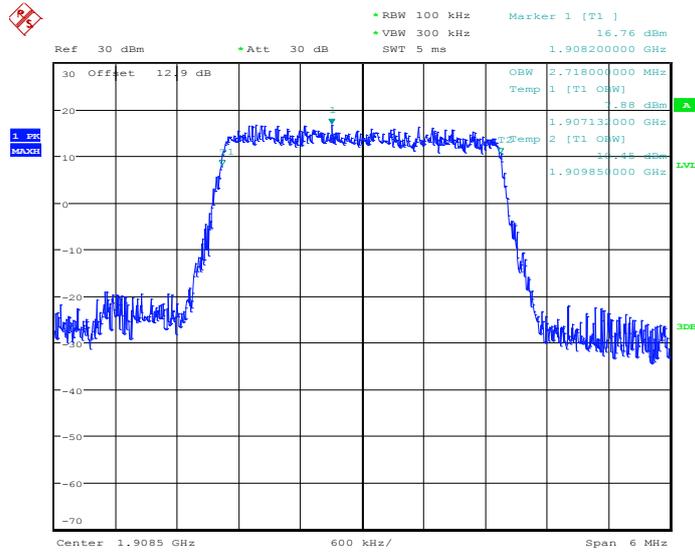
### 26dB Bandwidth Plot on Channel 18900



Date: 25.JUN.2014 19:50:07

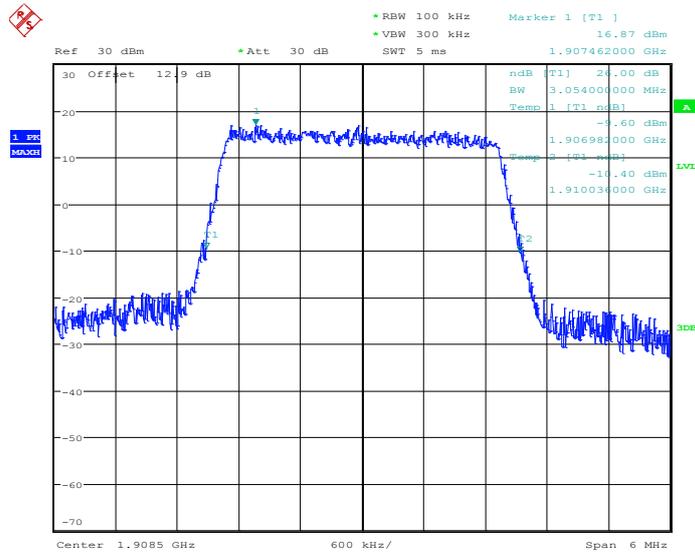


### 99% Occupied Bandwidth Plot on Channel 19185



Date: 25.JUN.2014 19:52:31

### 26dB Bandwidth Plot on Channel 19185

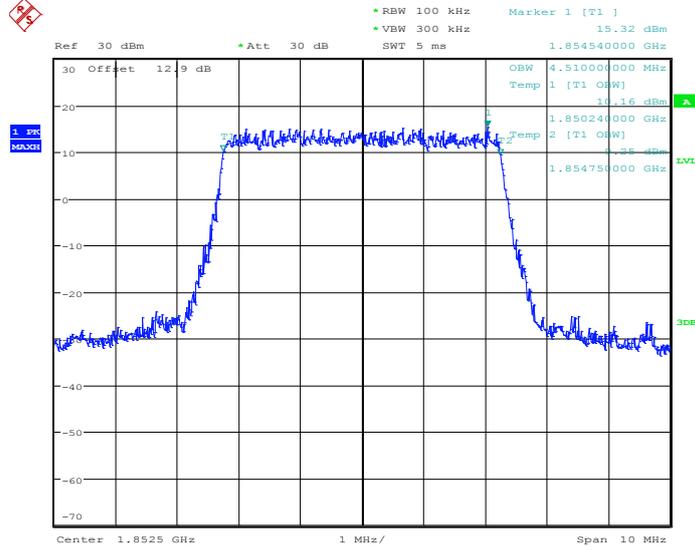


Date: 25.JUN.2014 19:53:03



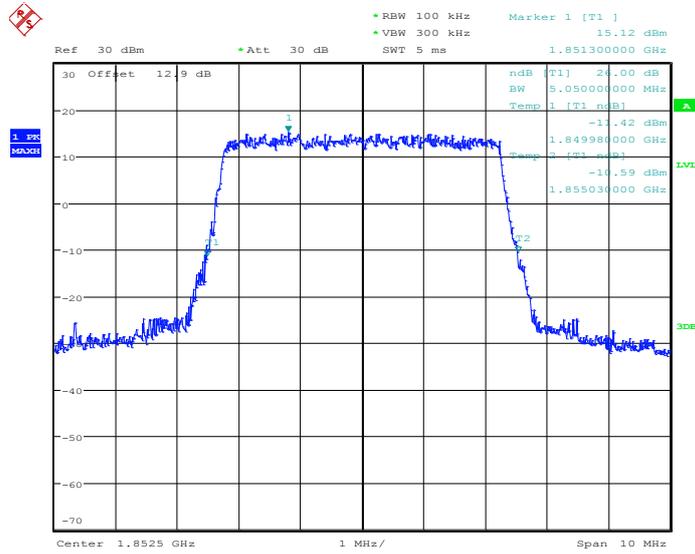
Band :	LTE Band 2	BW / Mod. :	5MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 18625



Date: 25.JUN.2014 19:58:18

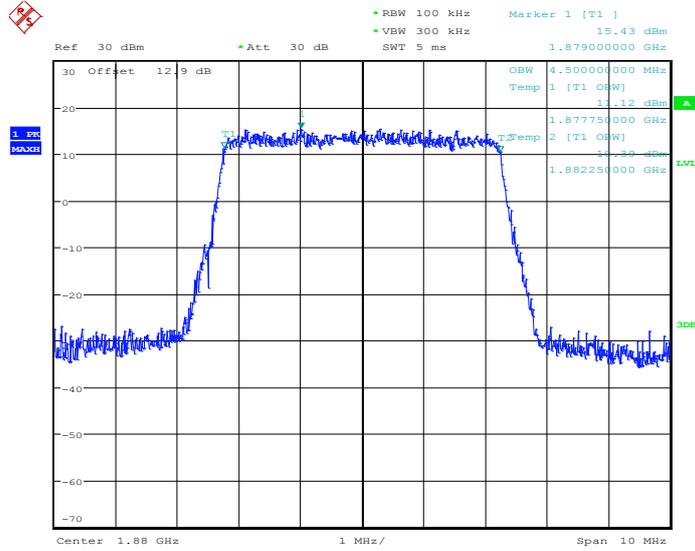
26dB Bandwidth Plot on Channel 18625



Date: 25.JUN.2014 19:58:48

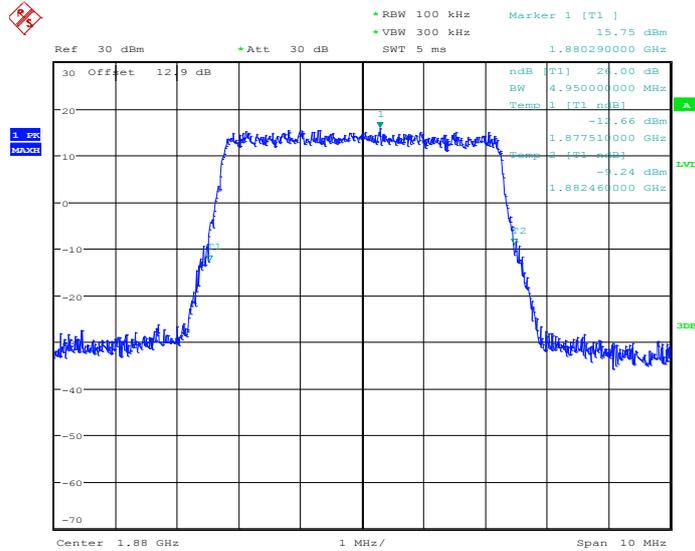


99% Occupied Bandwidth Plot on Channel 18900



Date: 25.JUN.2014 20:04:15

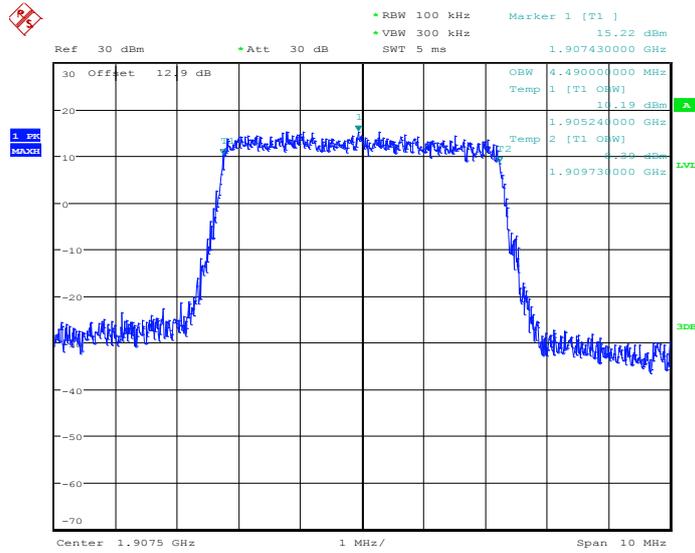
26dB Bandwidth Plot on Channel 18900



Date: 25.JUN.2014 20:04:44

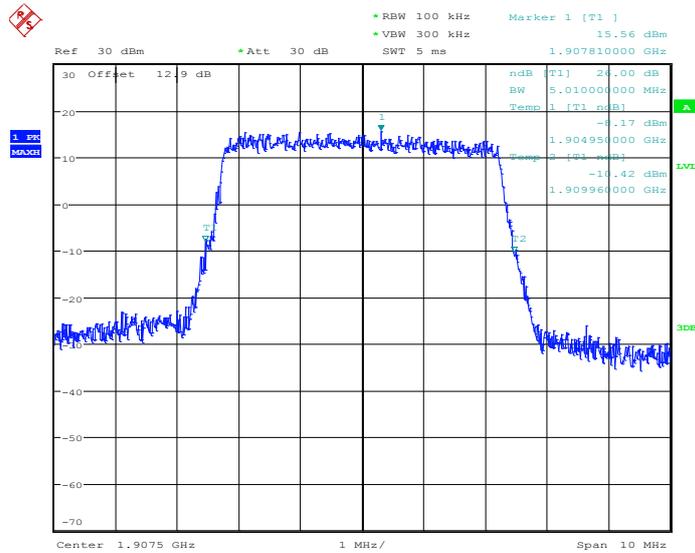


### 99% Occupied Bandwidth Plot on Channel 19175



Date: 25.JUN.2014 20:07:10

### 26dB Bandwidth Plot on Channel 19175

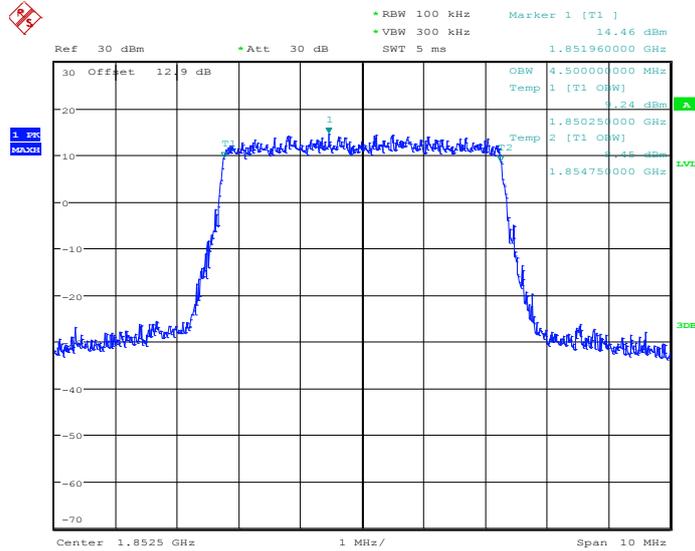


Date: 25.JUN.2014 20:07:40



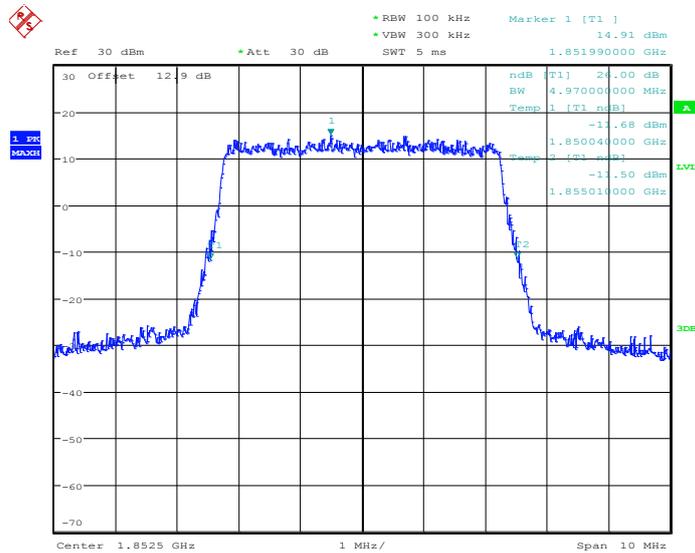
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	5MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 18625



Date: 25.JUN.2014 19:58:32

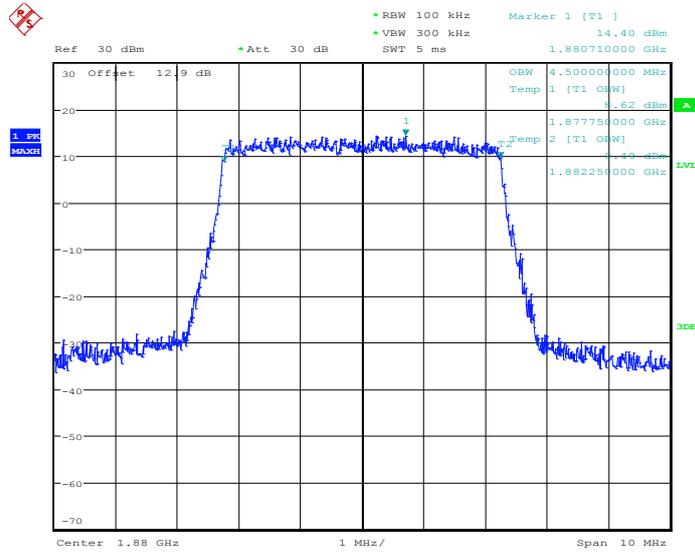
26dB Bandwidth Plot on Channel 18625



Date: 25.JUN.2014 19:59:03

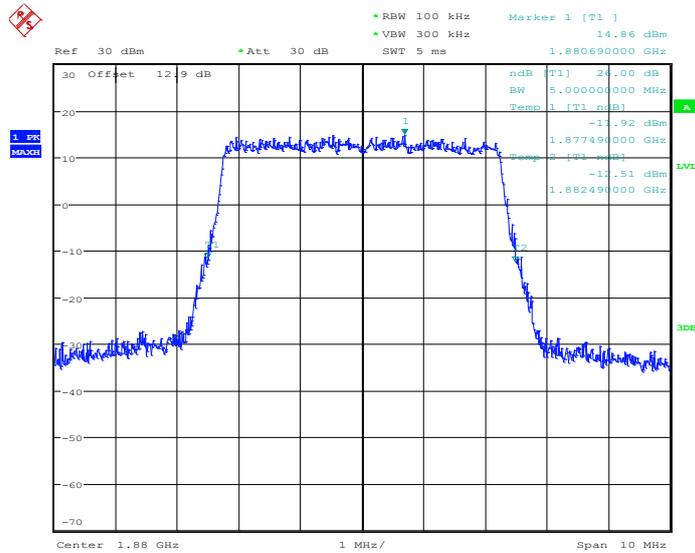


### 99% Occupied Bandwidth Plot on Channel 18900



Date: 25.JUN.2014 20:04:28

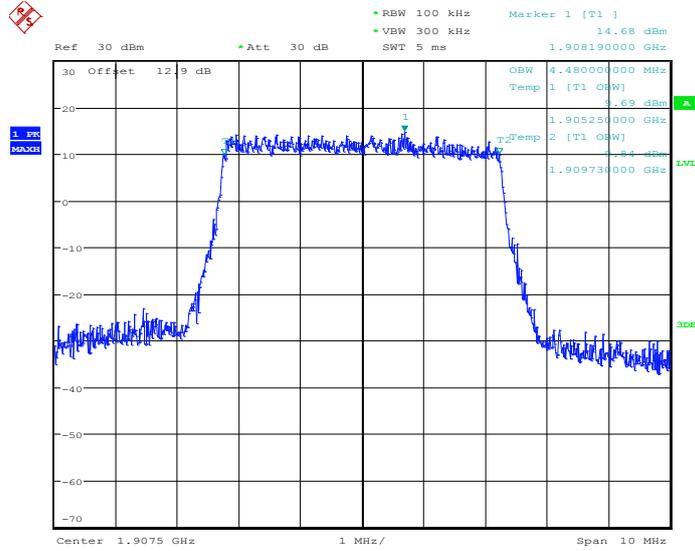
### 26dB Bandwidth Plot on Channel 18900



Date: 25.JUN.2014 20:05:00

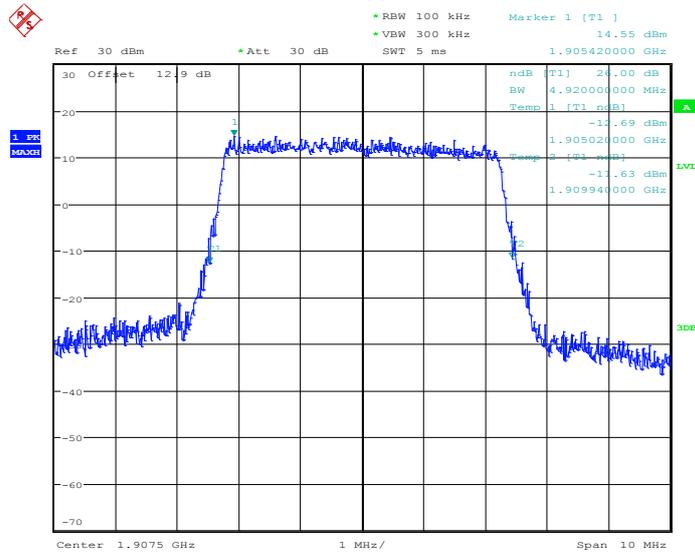


### 99% Occupied Bandwidth Plot on Channel 19175



Date: 25.JUN.2014 20:07:24

### 26dB Bandwidth Plot on Channel 19175

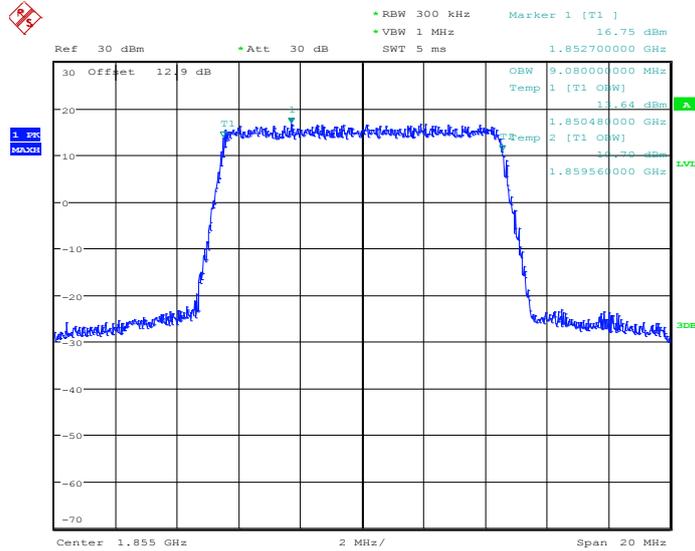


Date: 25.JUN.2014 20:07:55



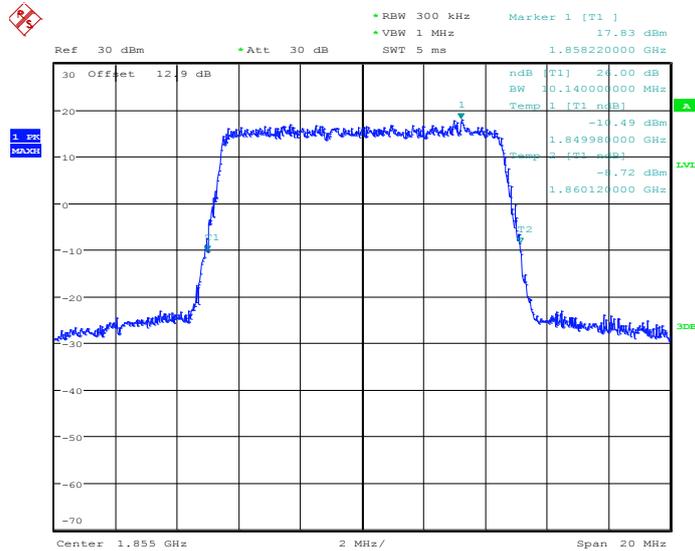
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	10MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 18650



Date: 25.JUN.2014 20:13:12

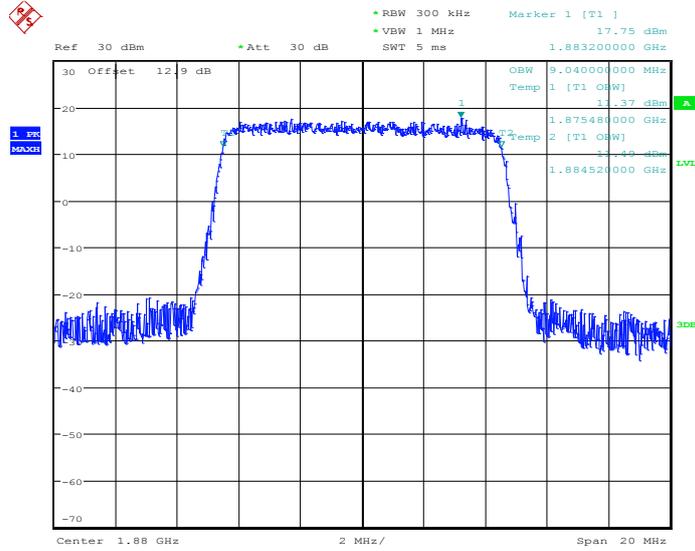
26dB Bandwidth Plot on Channel 18650



Date: 25.JUN.2014 20:13:41

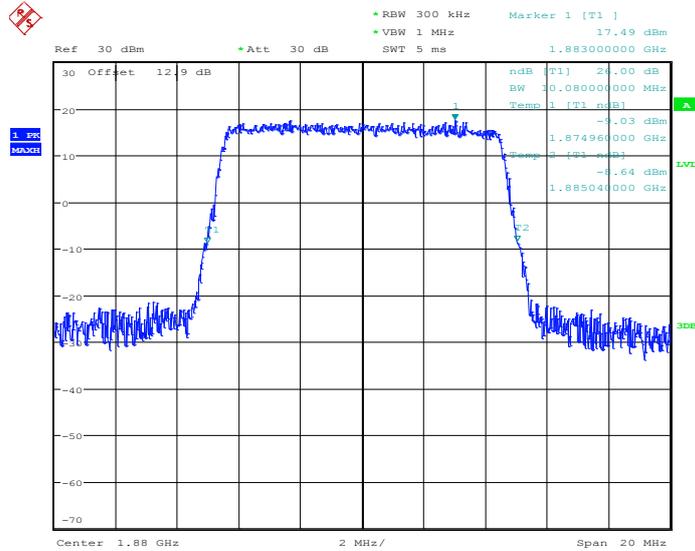


### 99% Occupied Bandwidth Plot on Channel 18900



Date: 25.JUN.2014 20:19:08

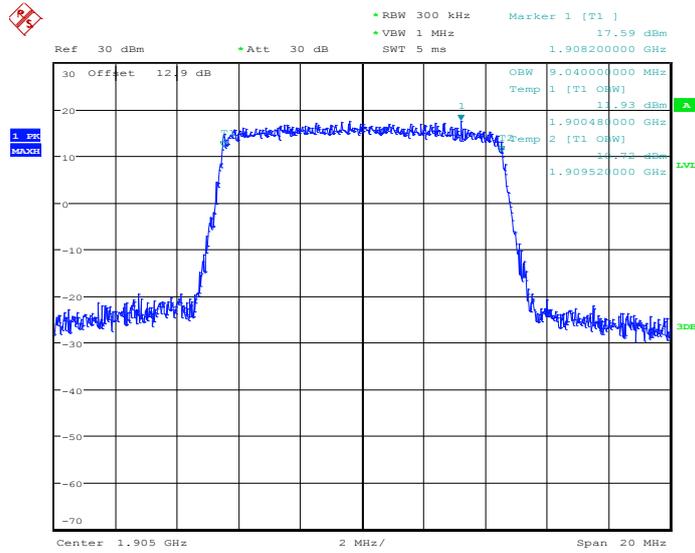
### 26dB Bandwidth Plot on Channel 18900



Date: 25.JUN.2014 20:19:37

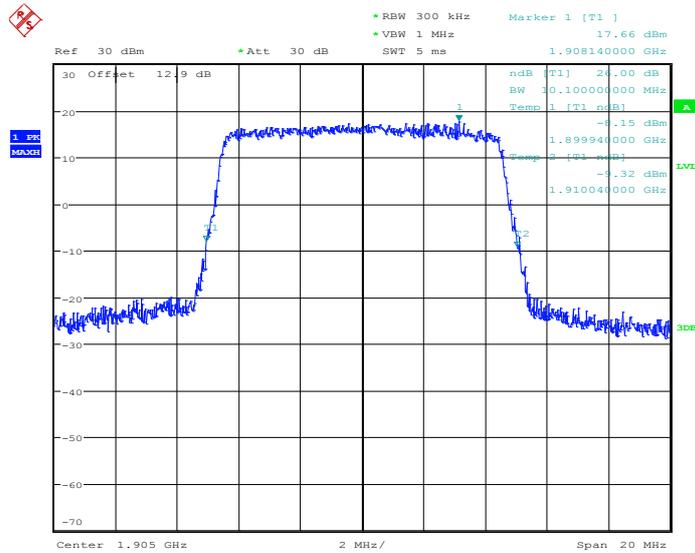


### 99% Occupied Bandwidth Plot on Channel 19150



Date: 25.JUN.2014 20:22:03

### 26dB Bandwidth Plot on Channel 19150

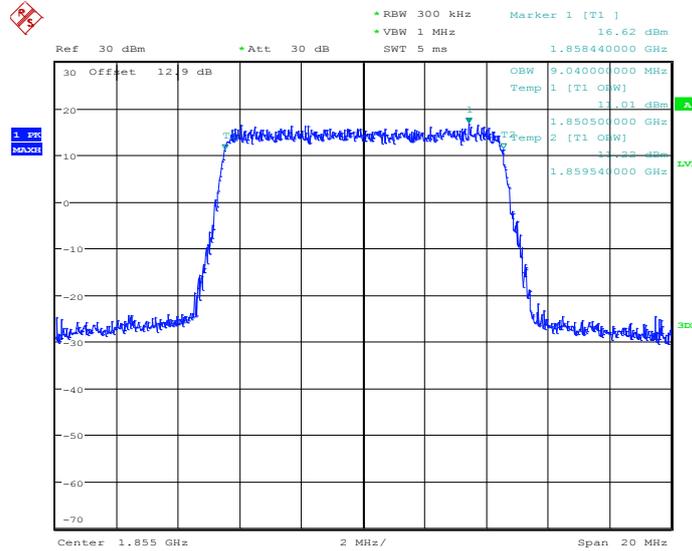


Date: 25.JUN.2014 20:22:33



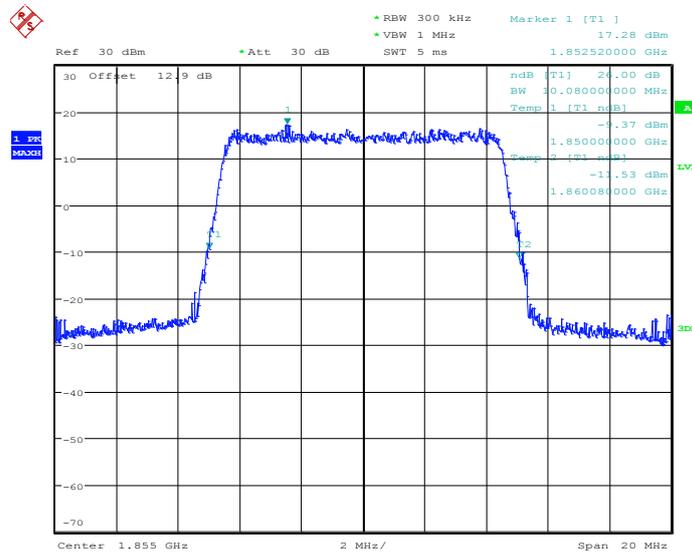
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	10MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 18650



Date: 25.JUN.2014 20:13:25

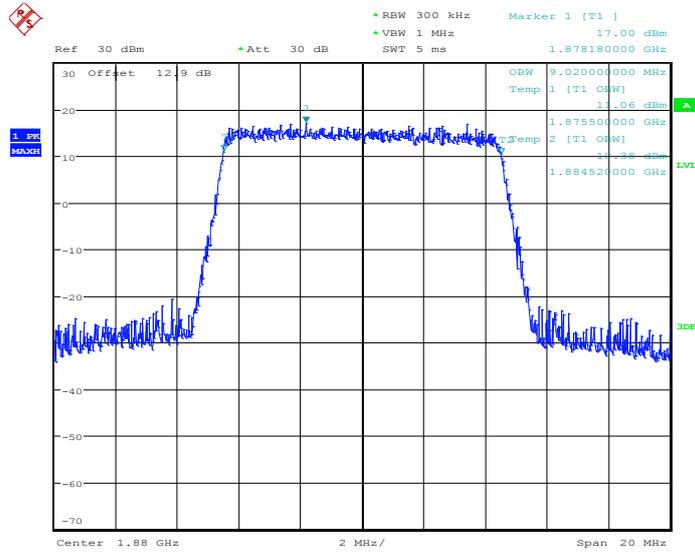
26dB Bandwidth Plot on Channel 18650



Date: 25.JUN.2014 20:13:57

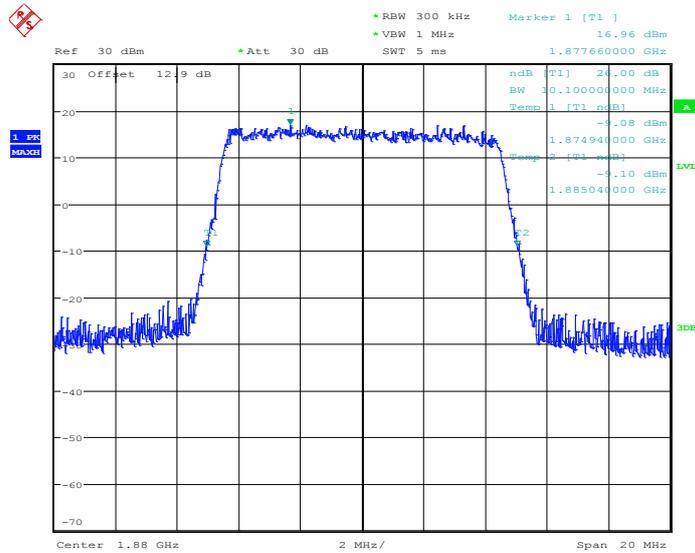


### 99% Occupied Bandwidth Plot on Channel 18900



Date: 25.JUN.2014 20:19:21

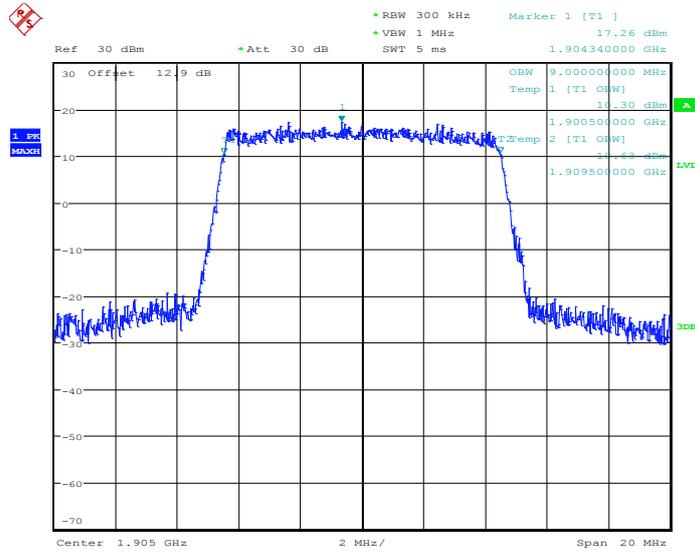
### 26dB Bandwidth Plot on Channel 18900



Date: 25.JUN.2014 20:19:53

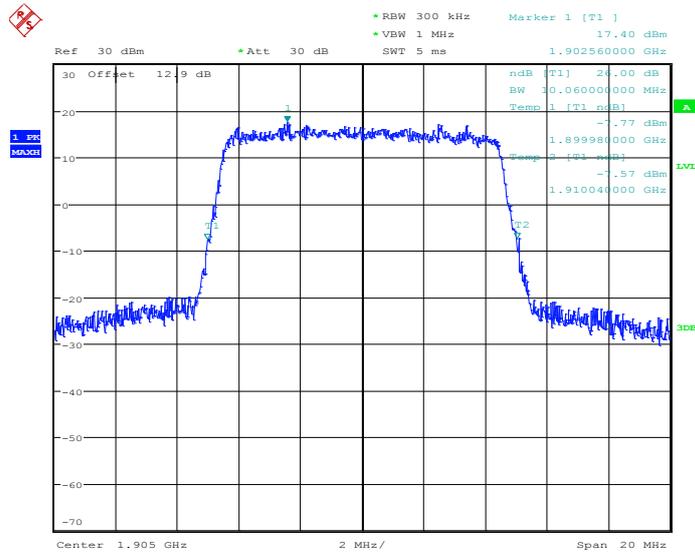


### 99% Occupied Bandwidth Plot on Channel 19150



Date: 25.JUN.2014 20:22:17

### 26dB Bandwidth Plot on Channel 19150

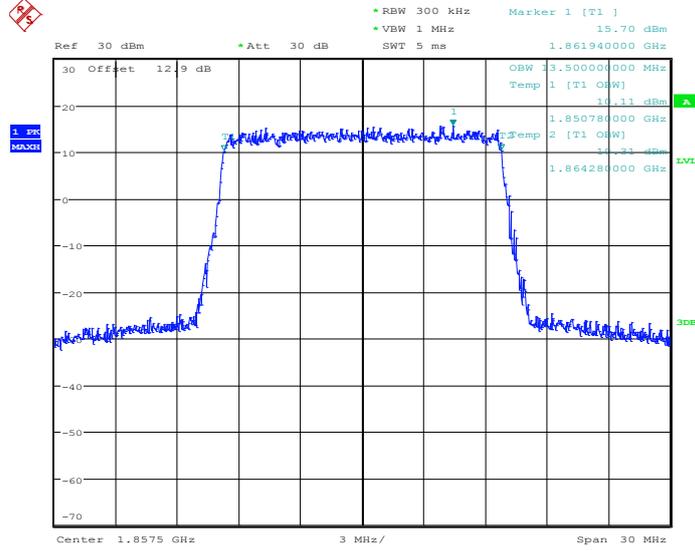


Date: 25.JUN.2014 20:22:49



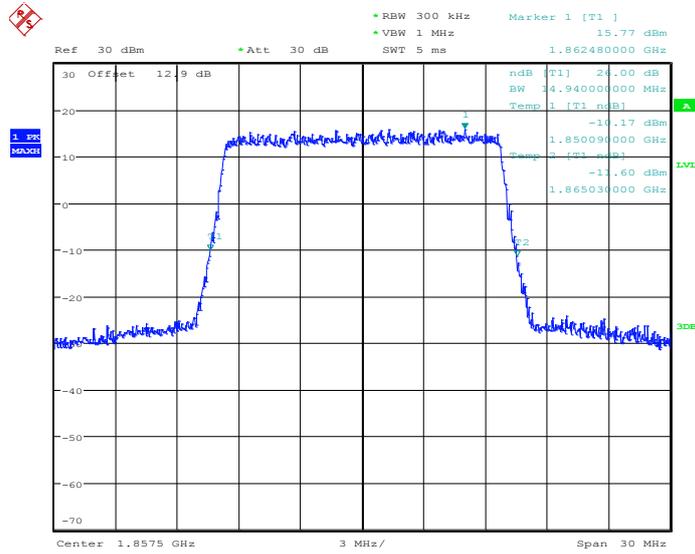
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	15MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 18675



Date: 25.JUN.2014 20:28:04

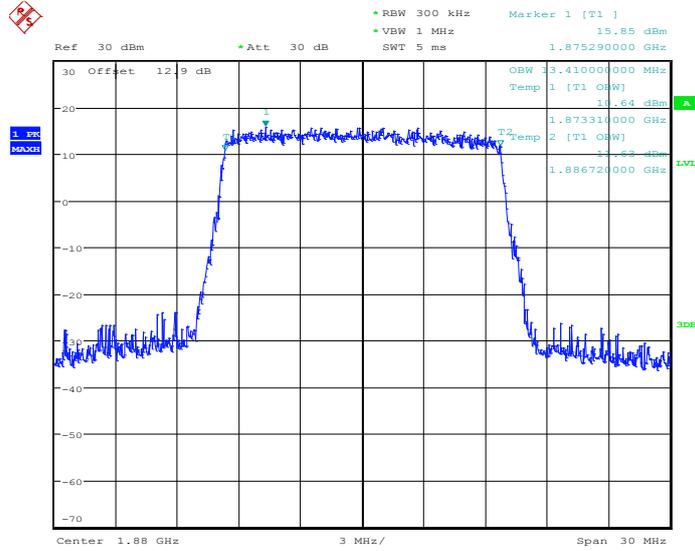
26dB Bandwidth Plot on Channel 18675



Date: 25.JUN.2014 20:28:34

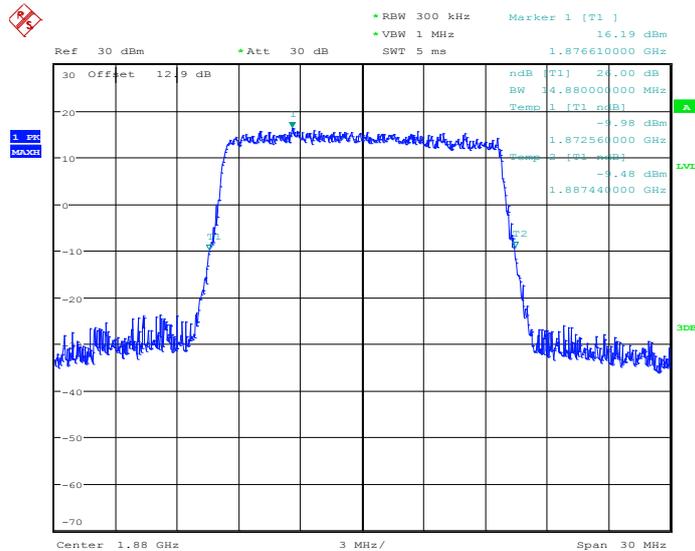


99% Occupied Bandwidth Plot on Channel 18900



Date: 25.JUN.2014 20:34:01

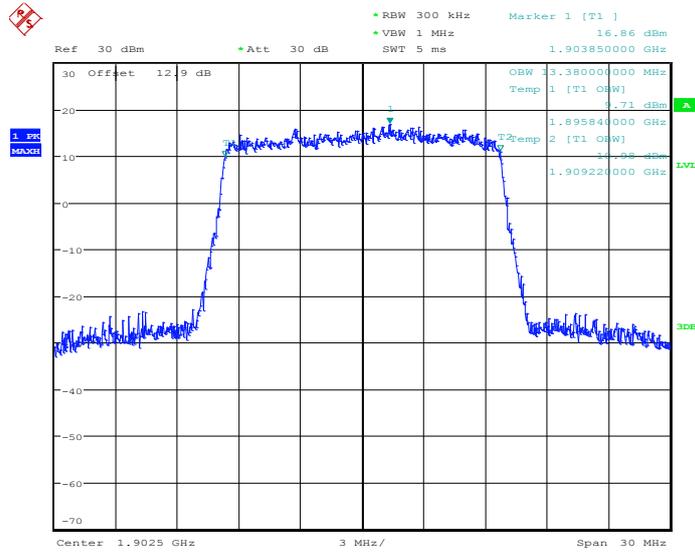
26dB Bandwidth Plot on Channel 18900



Date: 25.JUN.2014 20:34:30

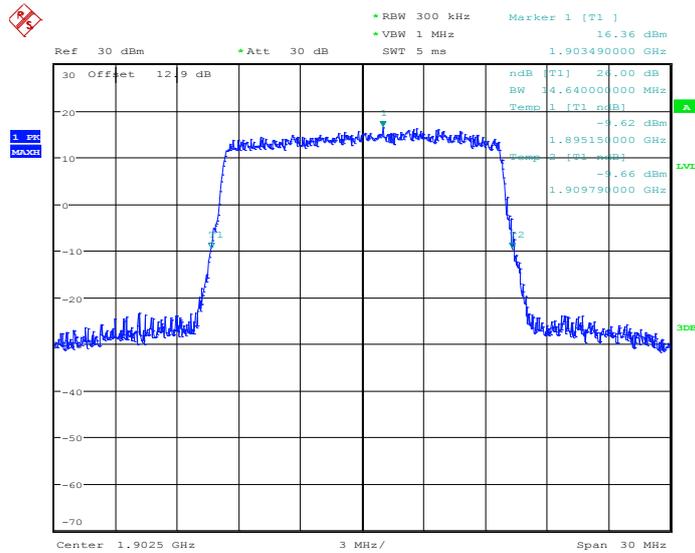


99% Occupied Bandwidth Plot on Channel 19125



Date: 25.JUN.2014 20:36:56

26dB Bandwidth Plot on Channel 19125

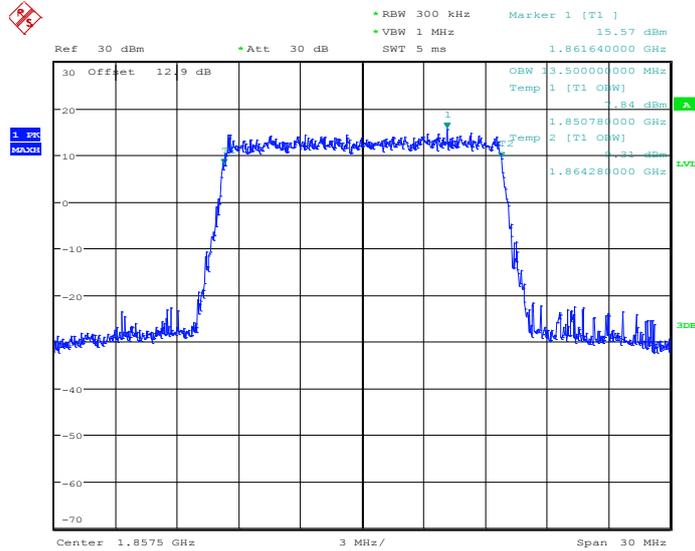


Date: 25.JUN.2014 20:37:26



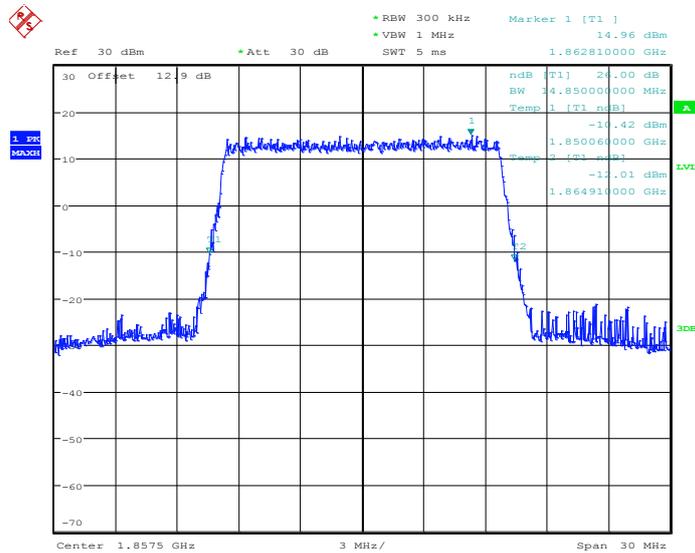
Band :	LTE Band 2	BW / Mod. :	15MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 18675



Date: 25.JUN.2014 20:28:18

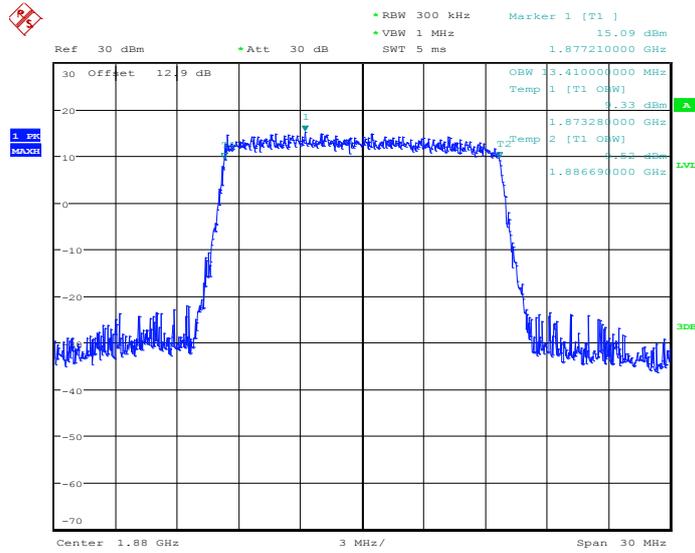
26dB Bandwidth Plot on Channel 18675



Date: 25.JUN.2014 20:28:50

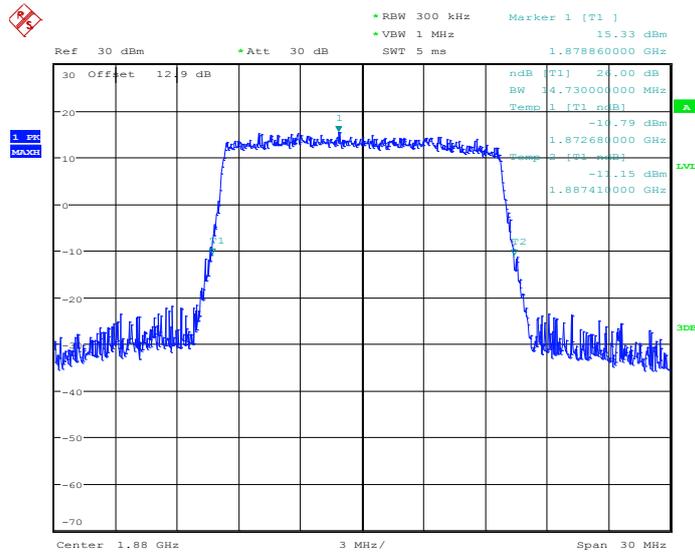


### 99% Occupied Bandwidth Plot on Channel 18900



Date: 25.JUN.2014 20:34:14

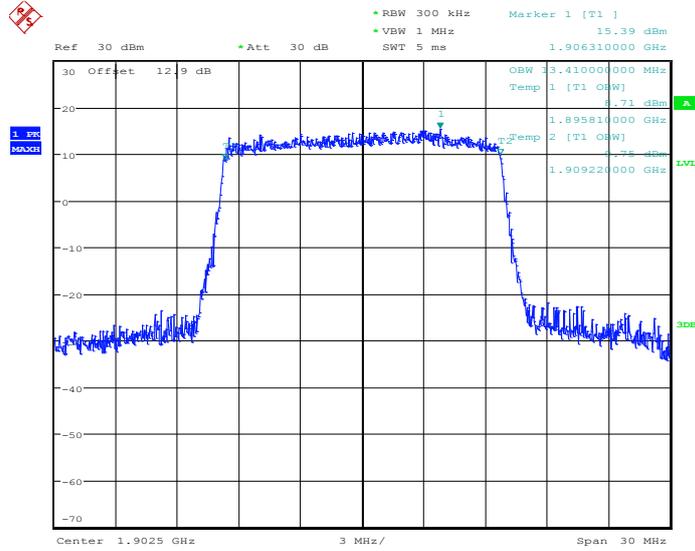
### 26dB Bandwidth Plot on Channel 18900



Date: 25.JUN.2014 20:34:46

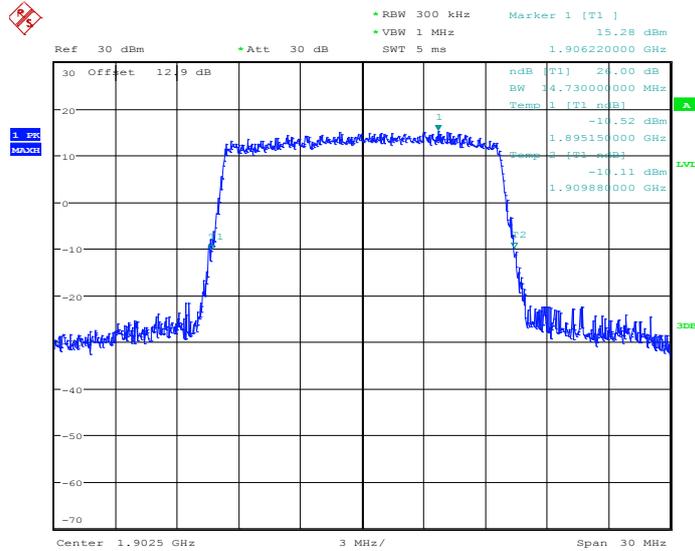


### 99% Occupied Bandwidth Plot on Channel 19125



Date: 25.JUN.2014 20:37:10

### 26dB Bandwidth Plot on Channel 19125

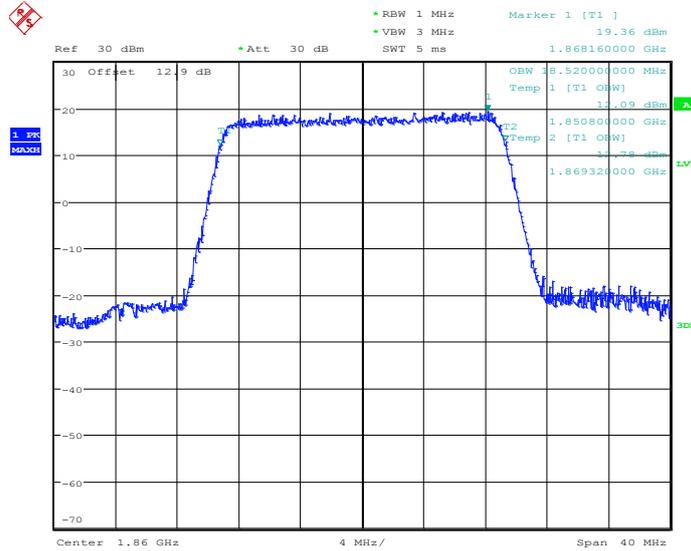


Date: 25.JUN.2014 20:37:42



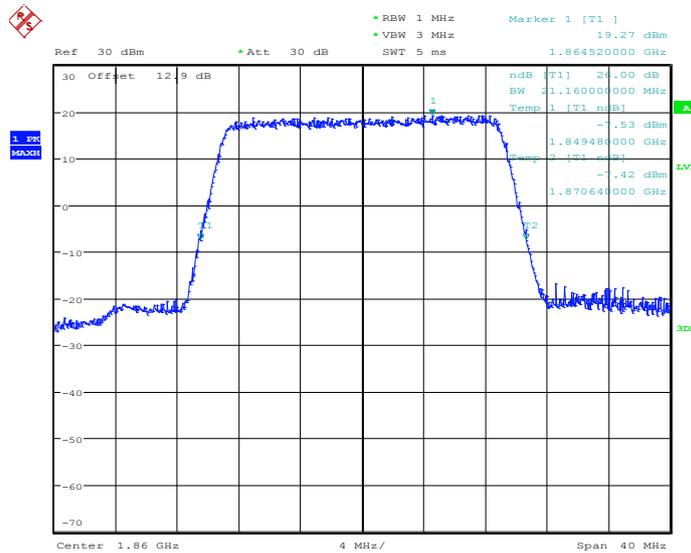
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	20MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 18700



Date: 25.JUN.2014 20:42:57

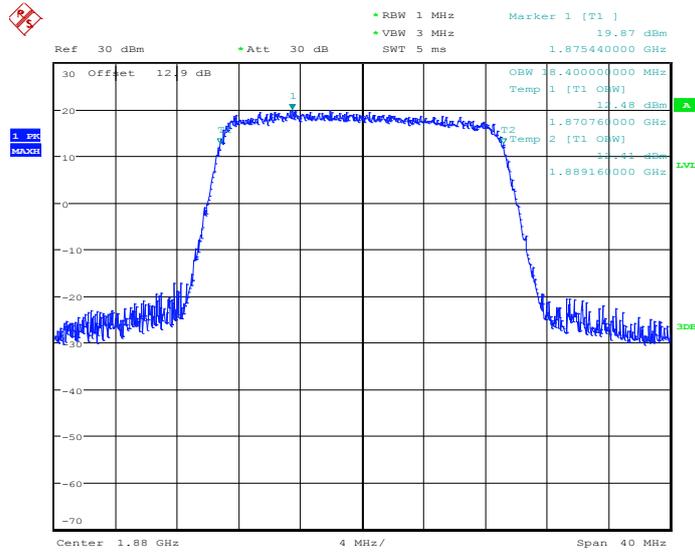
26dB Bandwidth Plot on Channel 18700



Date: 25.JUN.2014 20:43:26

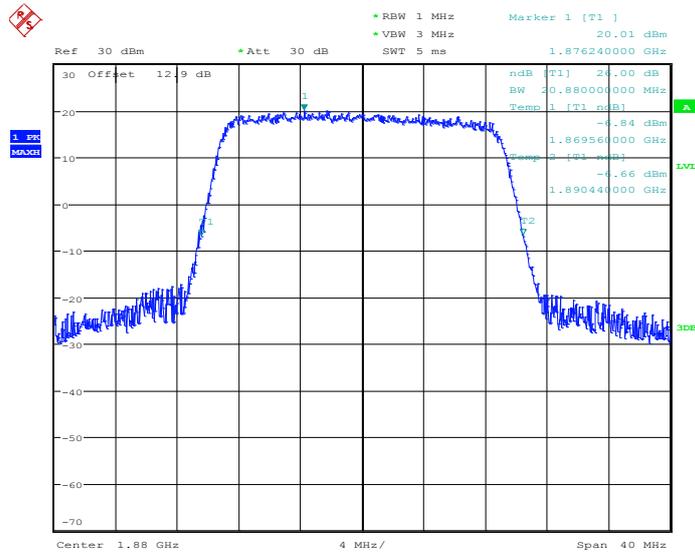


### 99% Occupied Bandwidth Plot on Channel 18900



Date: 25.JUN.2014 20:48:53

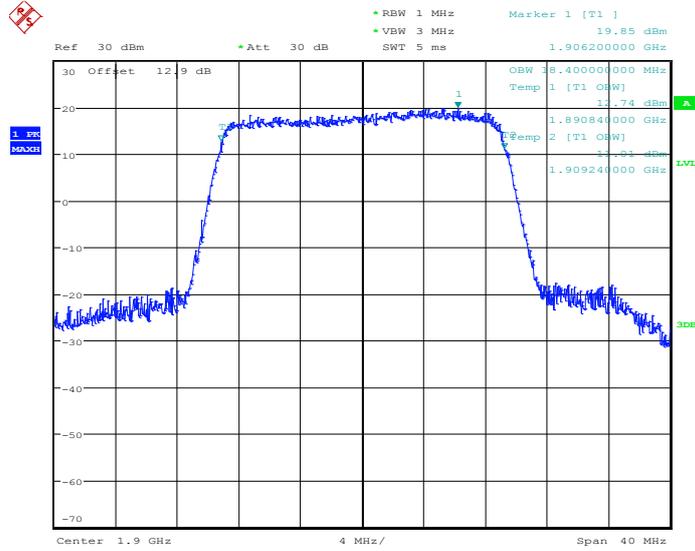
### 26dB Bandwidth Plot on Channel 18900



Date: 25.JUN.2014 20:49:22

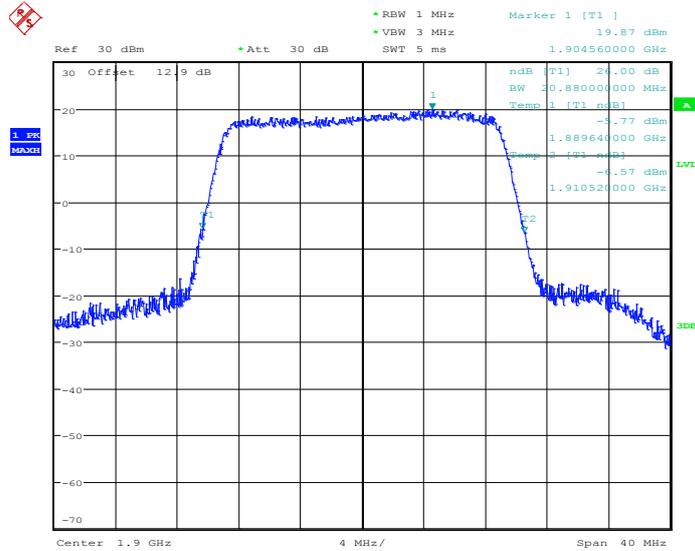


### 99% Occupied Bandwidth Plot on Channel 19100



Date: 25.JUN.2014 20:51:48

### 26dB Bandwidth Plot on Channel 19100

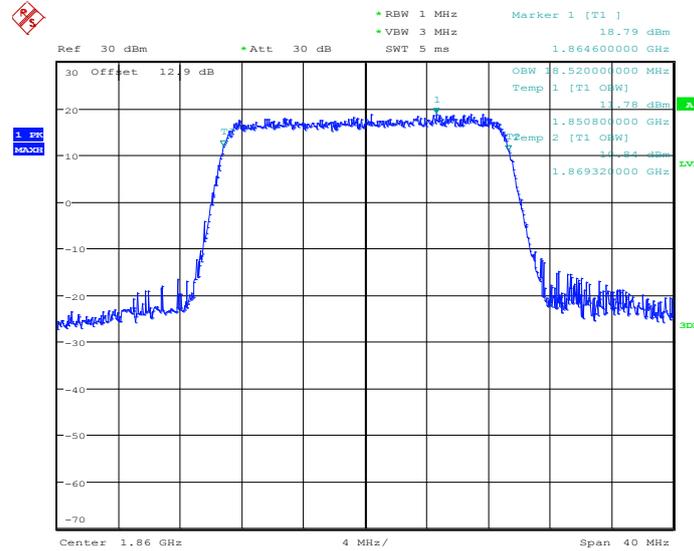


Date: 25.JUN.2014 20:52:18



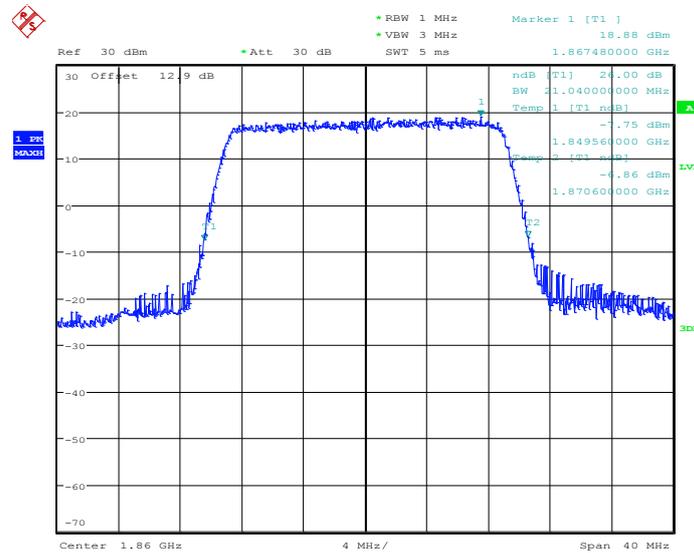
<b>Band :</b>	LTE Band 2	<b>BW / Mod. :</b>	20MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 18700



Date: 25.JUN.2014 20:43:11

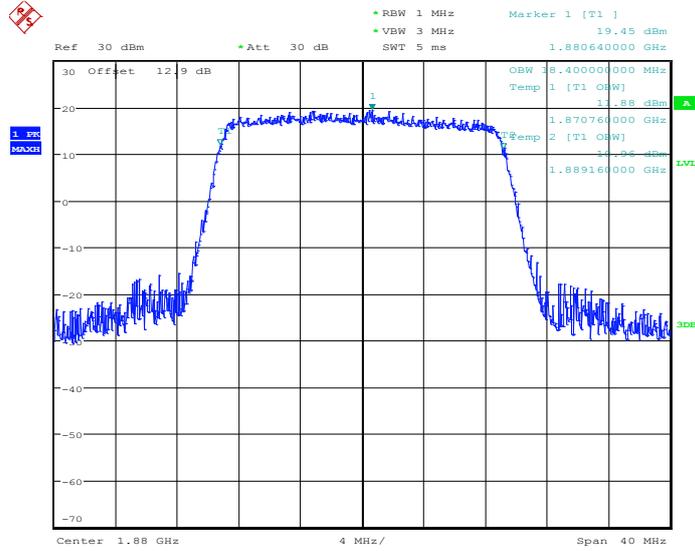
26dB Bandwidth Plot on Channel 18700



Date: 25.JUN.2014 20:43:42

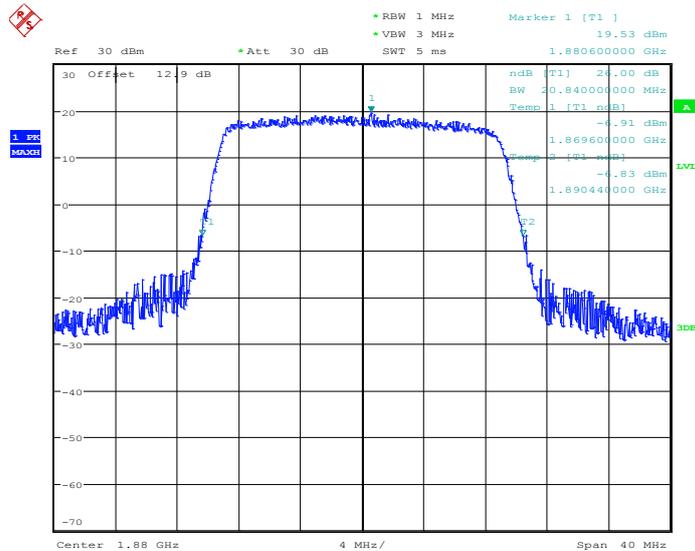


99% Occupied Bandwidth Plot on Channel 18900



Date: 25.JUN.2014 20:49:06

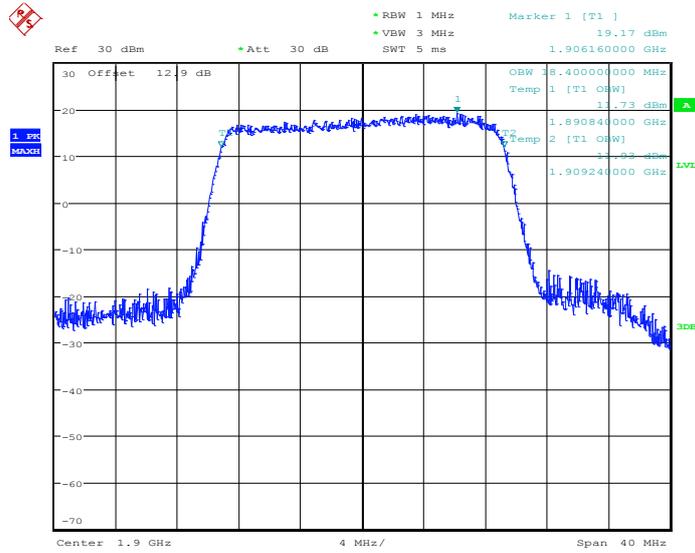
26dB Bandwidth Plot on Channel 18900



Date: 25.JUN.2014 20:49:38

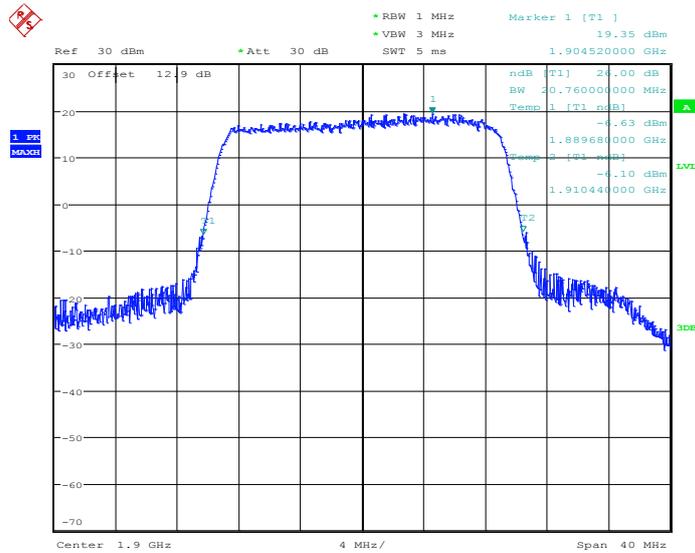


### 99% Occupied Bandwidth Plot on Channel 19100



Date: 25.JUN.2014 20:52:02

### 26dB Bandwidth Plot on Channel 19100

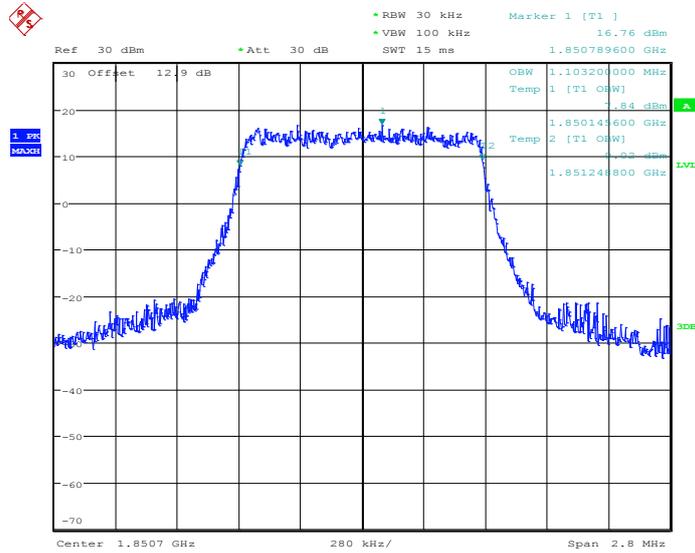


Date: 25.JUN.2014 20:52:34



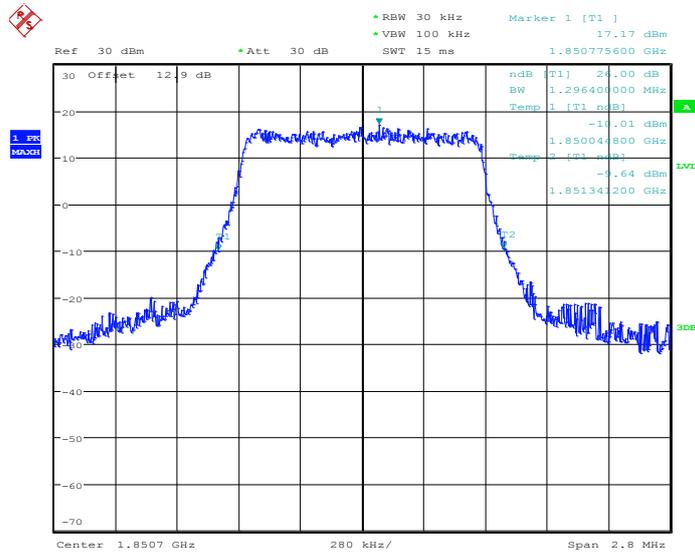
Band :	LTE Band 25	BW / Mod. :	1.4MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 26047



Date: 25.JUN.2014 19:28:31

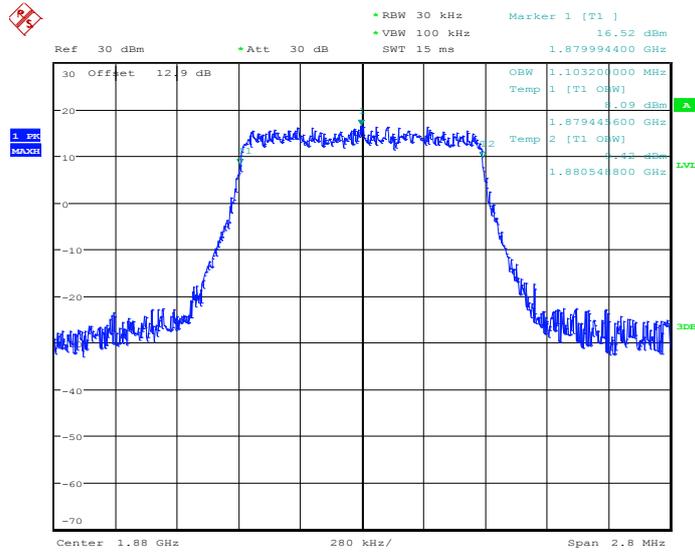
26dB Bandwidth Plot on Channel 26047



Date: 25.JUN.2014 19:29:00

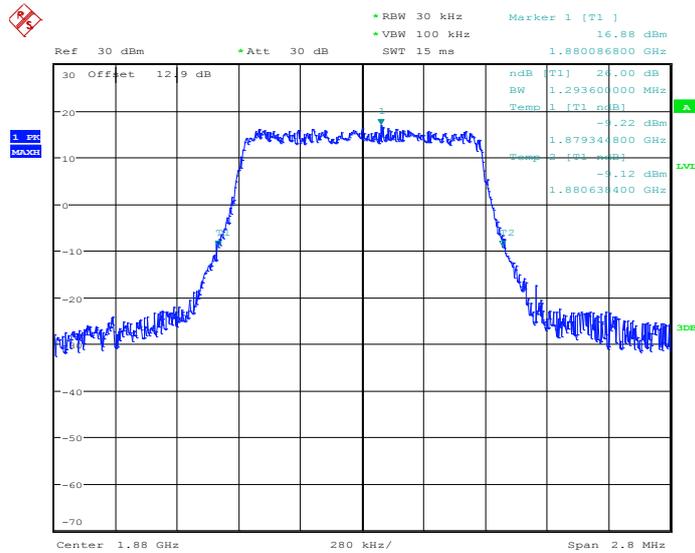


### 99% Occupied Bandwidth Plot on Channel 26340



Date: 25.JUN.2014 19:34:27

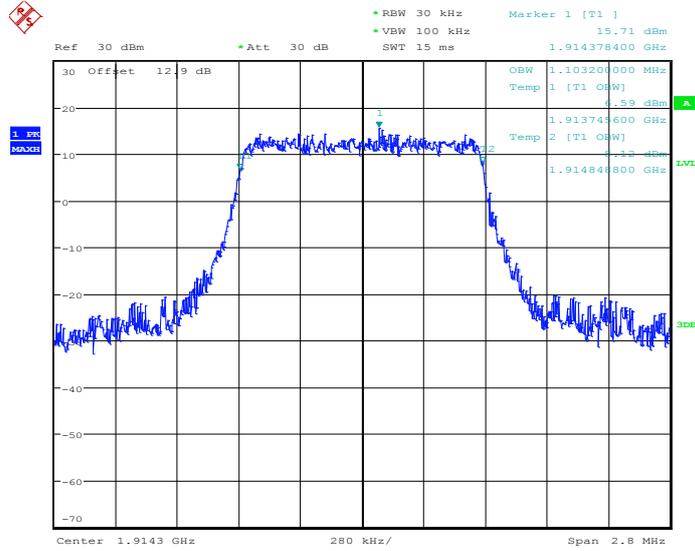
### 26dB Bandwidth Plot on Channel 26340



Date: 25.JUN.2014 19:34:57

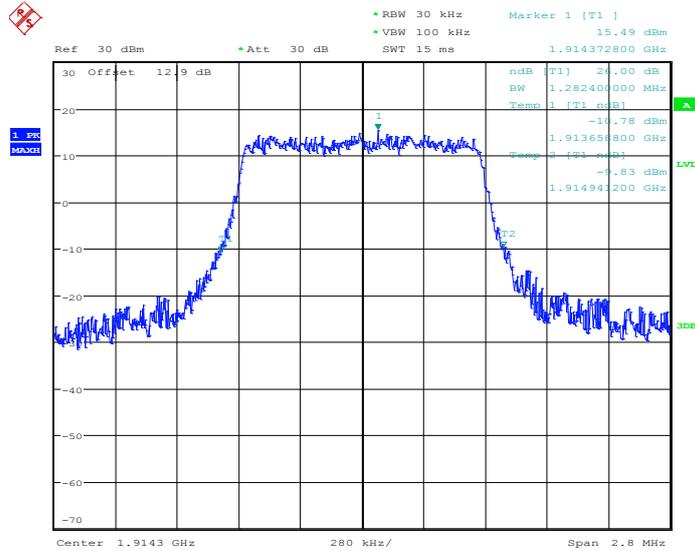


99% Occupied Bandwidth Plot on Channel 26683



Date: 25.JUN.2014 23:43:56

26dB Bandwidth Plot on Channel 26683

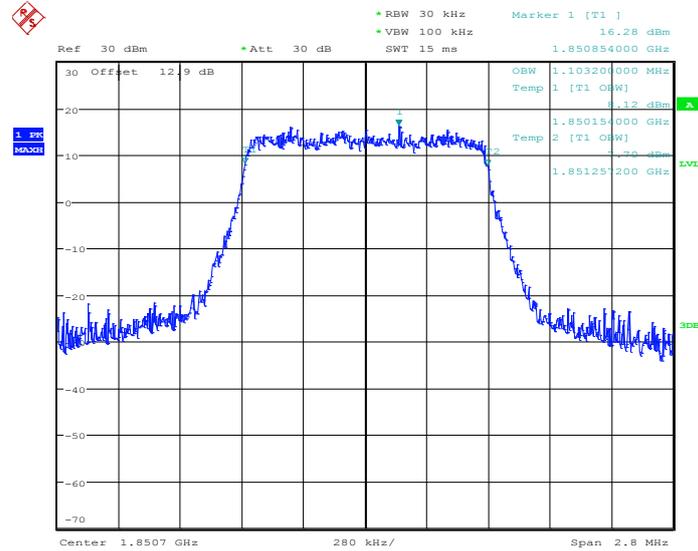


Date: 25.JUN.2014 23:44:25



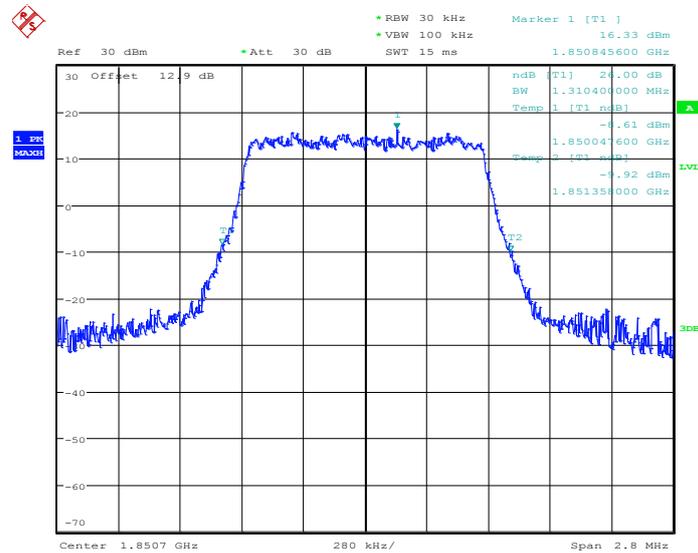
<b>Band :</b>	LTE Band 25	<b>BW / Mod. :</b>	1.4MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 26047



Date: 25.JUN.2014 19:28:45

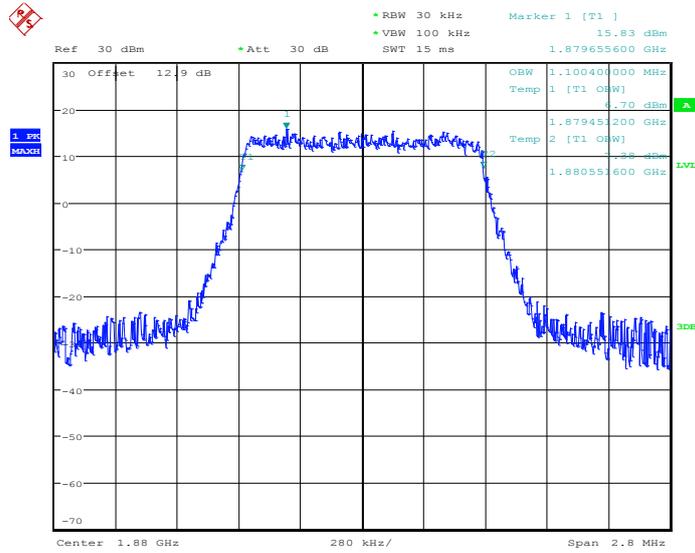
26dB Bandwidth Plot on Channel 26047



Date: 25.JUN.2014 19:29:16

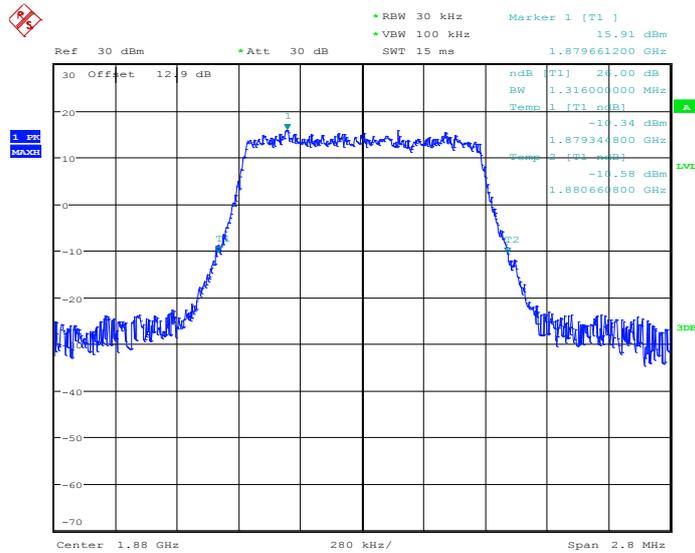


### 99% Occupied Bandwidth Plot on Channel 26340



Date: 25.JUN.2014 19:34:41

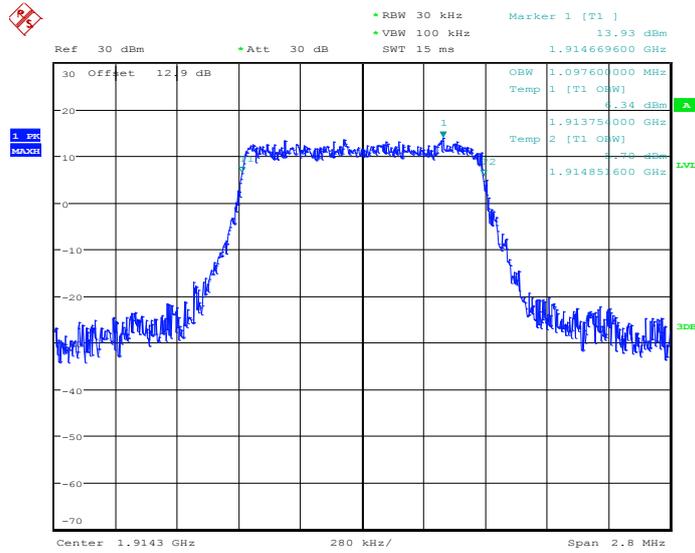
### 26dB Bandwidth Plot on Channel 26340



Date: 25.JUN.2014 19:35:13

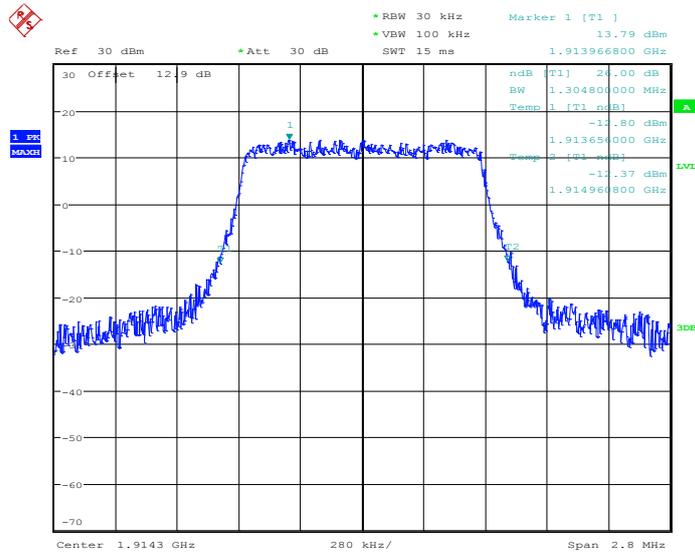


99% Occupied Bandwidth Plot on Channel 26683



Date: 25.JUN.2014 23:44:10

26dB Bandwidth Plot on Channel 26683

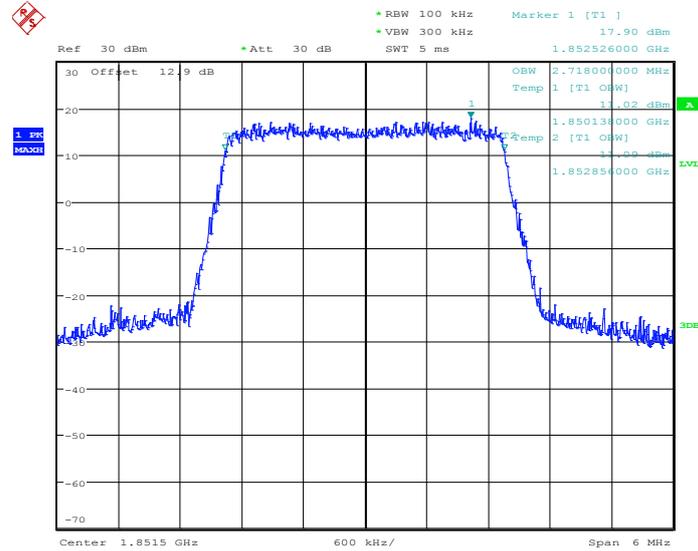


Date: 25.JUN.2014 23:44:41



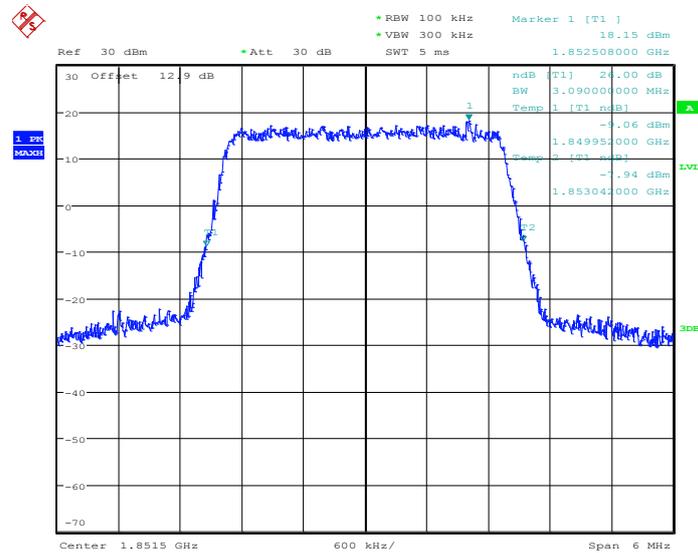
<b>Band :</b>	LTE Band 25	<b>BW / Mod. :</b>	3MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 26055



Date: 25.JUN.2014 19:43:25

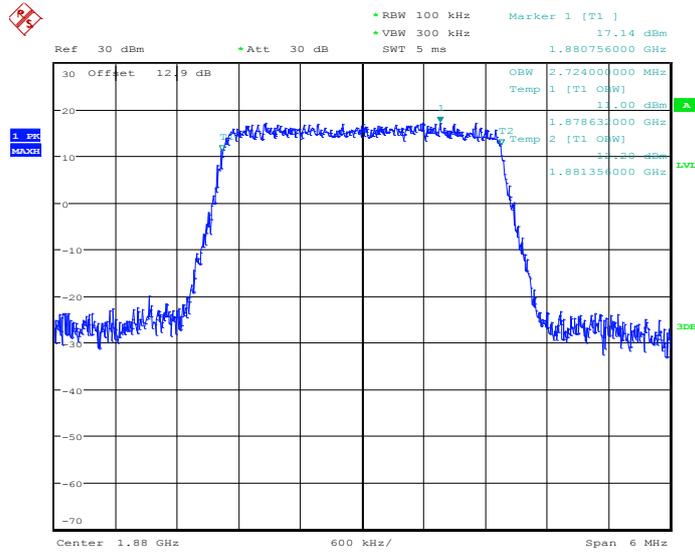
26dB Bandwidth Plot on Channel 26055



Date: 25.JUN.2014 19:43:54

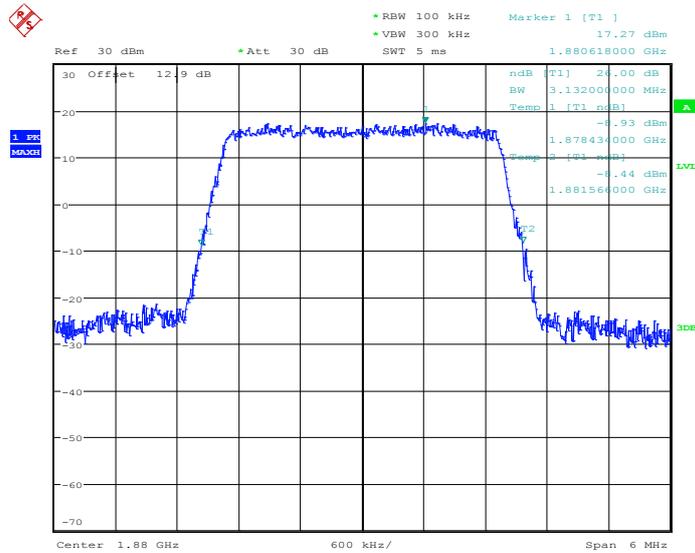


99% Occupied Bandwidth Plot on Channel 26340



Date: 25.JUN.2014 19:49:22

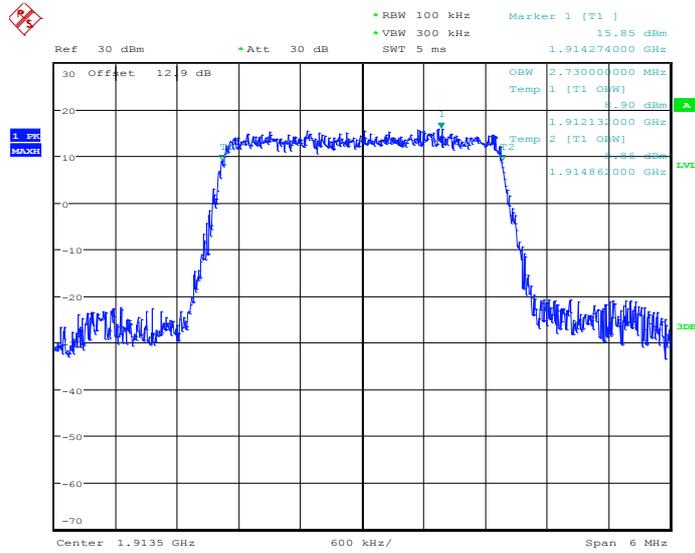
26dB Bandwidth Plot on Channel 26340



Date: 25.JUN.2014 19:49:51

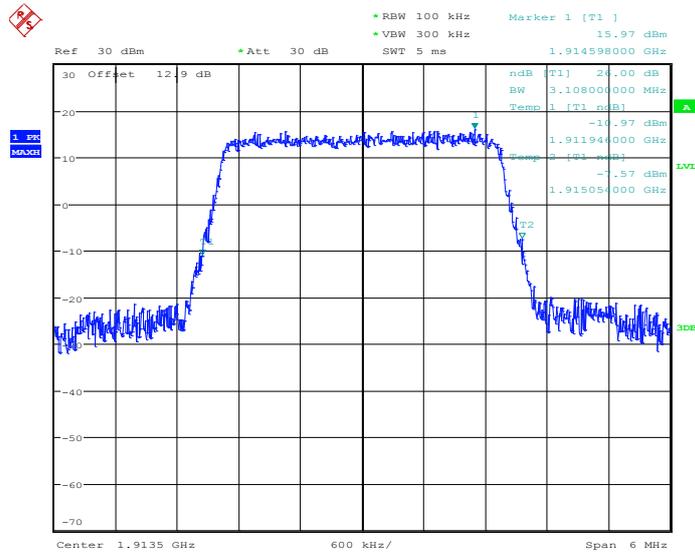


99% Occupied Bandwidth Plot on Channel 26675



Date: 25.JUN.2014 23:49:58

26dB Bandwidth Plot on Channel 26675

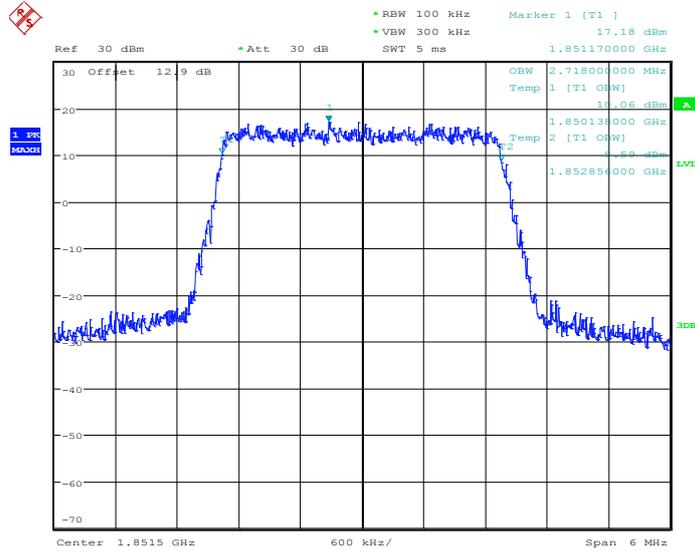


Date: 25.JUN.2014 23:50:28



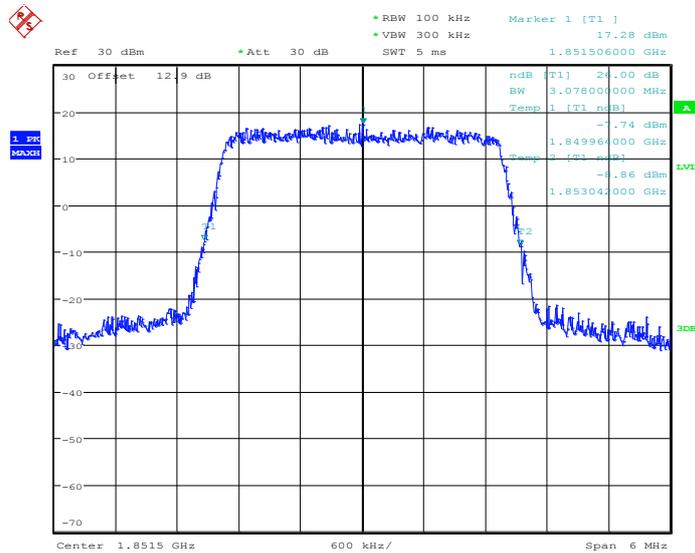
<b>Band :</b>	LTE Band 25	<b>BW / Mod. :</b>	3MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 26055



Date: 25.JUN.2014 19:43:39

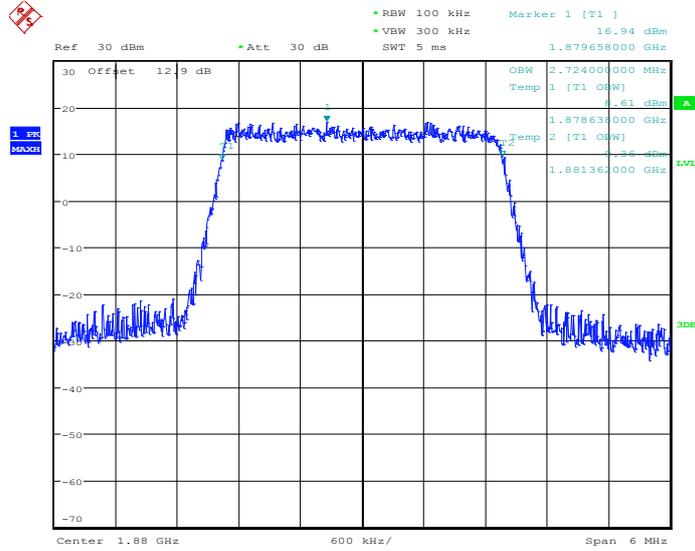
26dB Bandwidth Plot on Channel 26055



Date: 25.JUN.2014 19:44:10

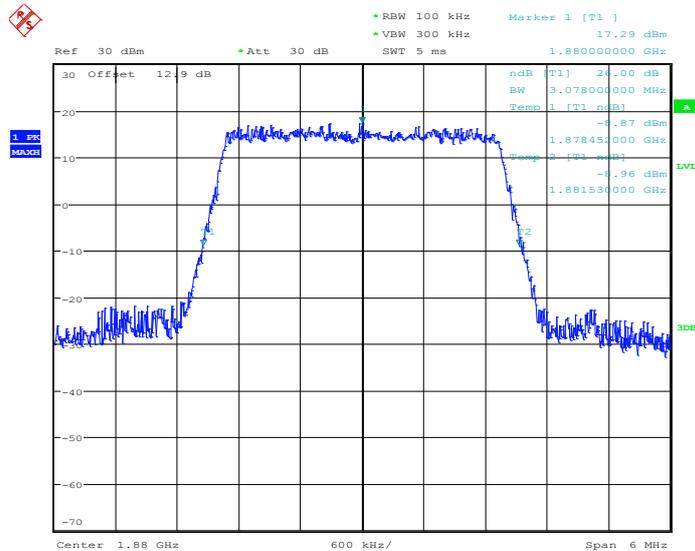


99% Occupied Bandwidth Plot on Channel 26340



Date: 25.JUN.2014 19:49:36

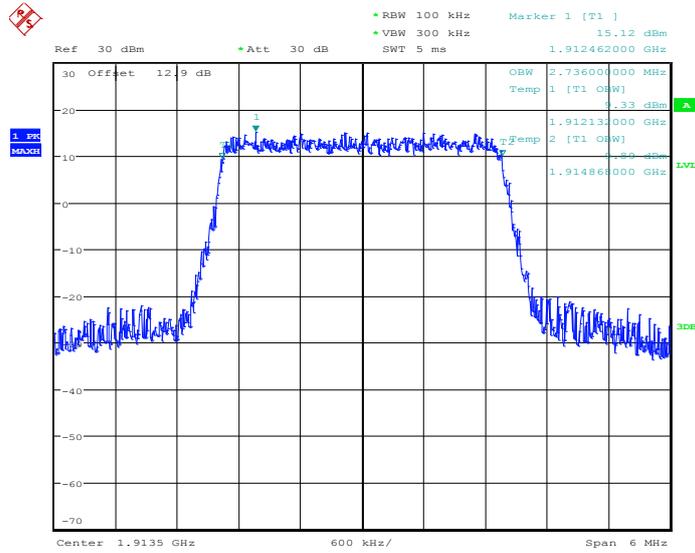
26dB Bandwidth Plot on Channel 26340



Date: 25.JUN.2014 19:50:07

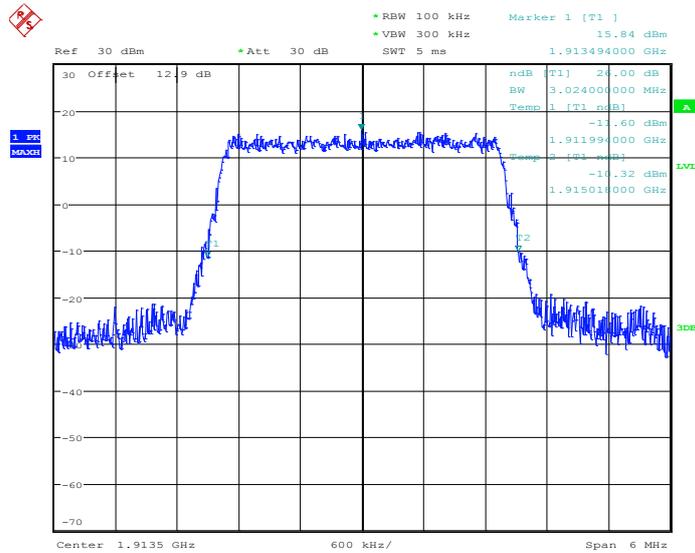


99% Occupied Bandwidth Plot on Channel 26675



Date: 25.JUN.2014 23:50:12

26dB Bandwidth Plot on Channel 26675

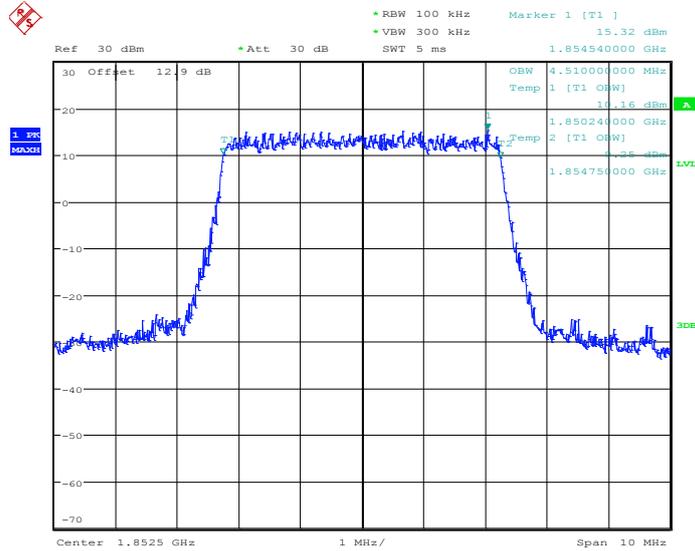


Date: 25.JUN.2014 23:50:44



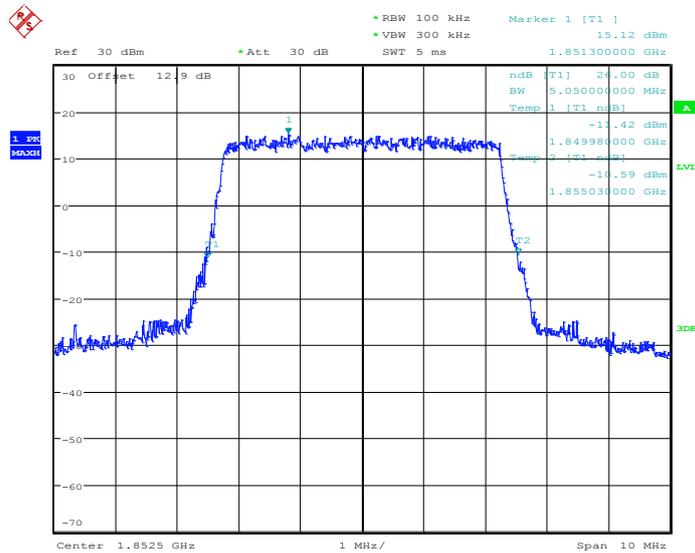
<b>Band :</b>	LTE Band 25	<b>BW / Mod. :</b>	5MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 26065



Date: 25.JUN.2014 19:58:18

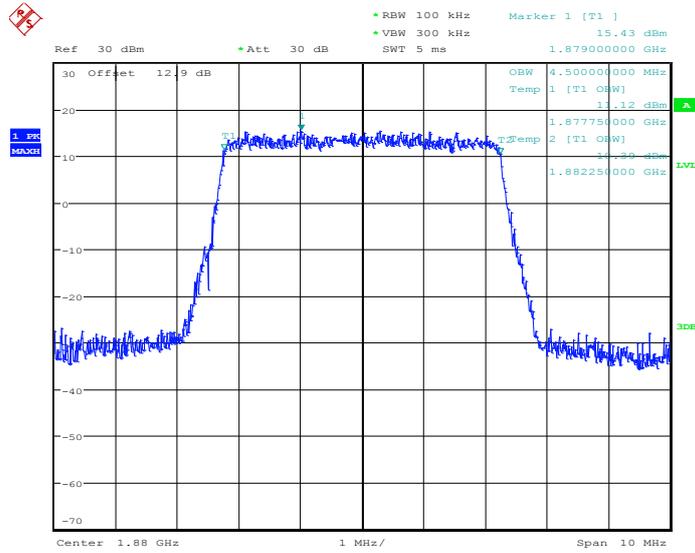
26dB Bandwidth Plot on Channel 26065



Date: 25.JUN.2014 19:58:48

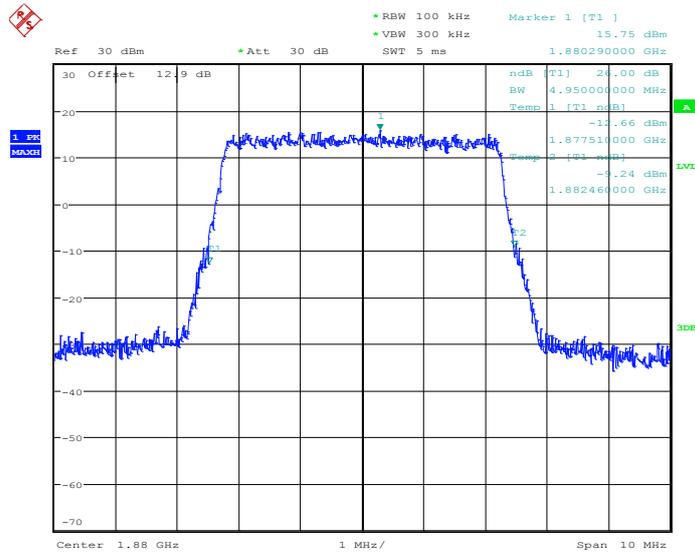


### 99% Occupied Bandwidth Plot on Channel 26340



Date: 25.JUN.2014 20:04:15

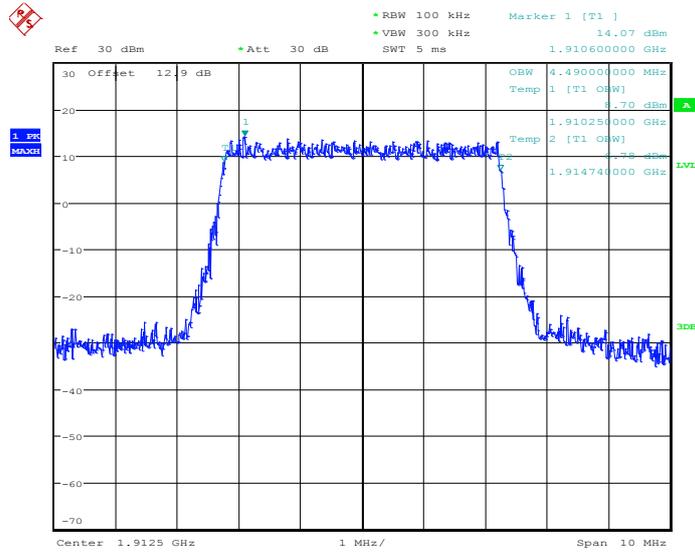
### 26dB Bandwidth Plot on Channel 26340



Date: 25.JUN.2014 20:04:44

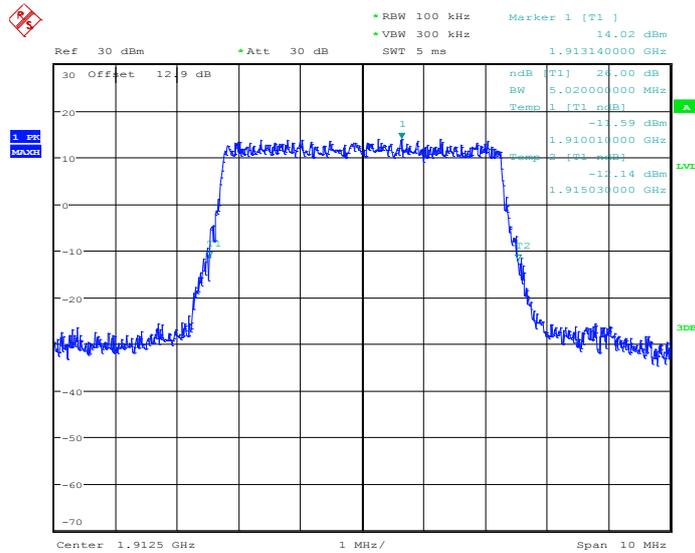


99% Occupied Bandwidth Plot on Channel 26665



Date: 25.JUN.2014 23:56:01

26dB Bandwidth Plot on Channel 26665

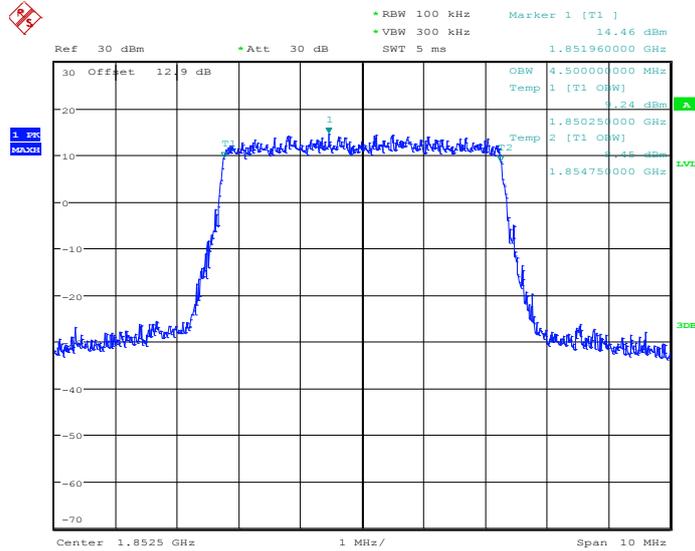


Date: 25.JUN.2014 23:56:30



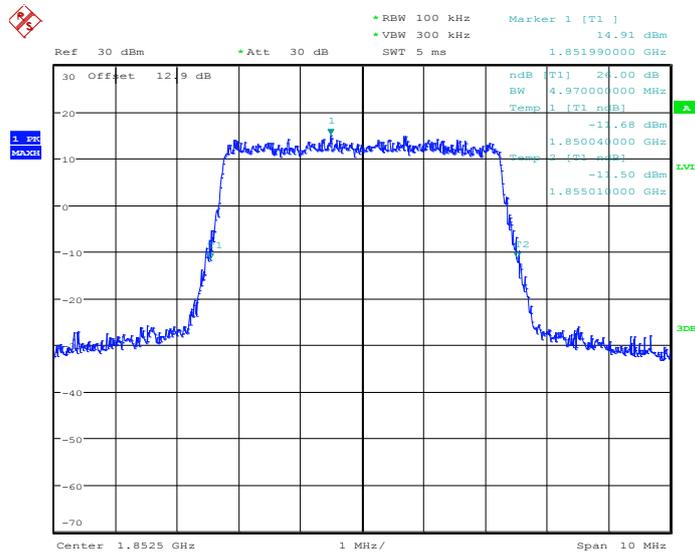
<b>Band :</b>	LTE Band 25	<b>BW / Mod. :</b>	5MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 26065



Date: 25.JUN.2014 19:58:32

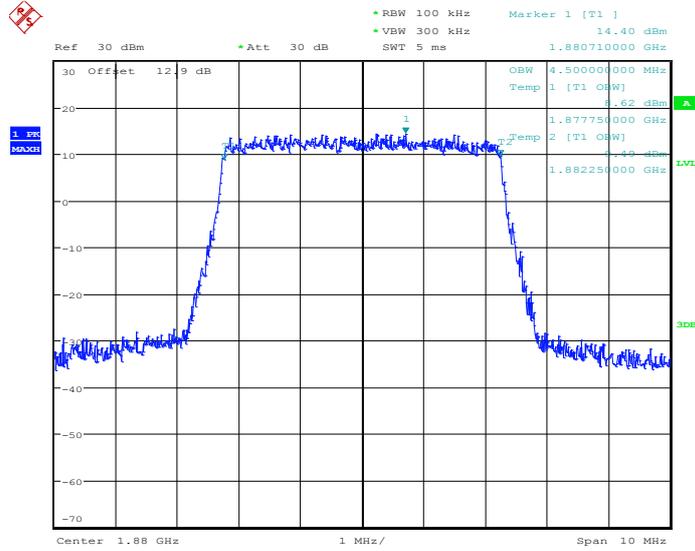
26dB Bandwidth Plot on Channel 26065



Date: 25.JUN.2014 19:59:03

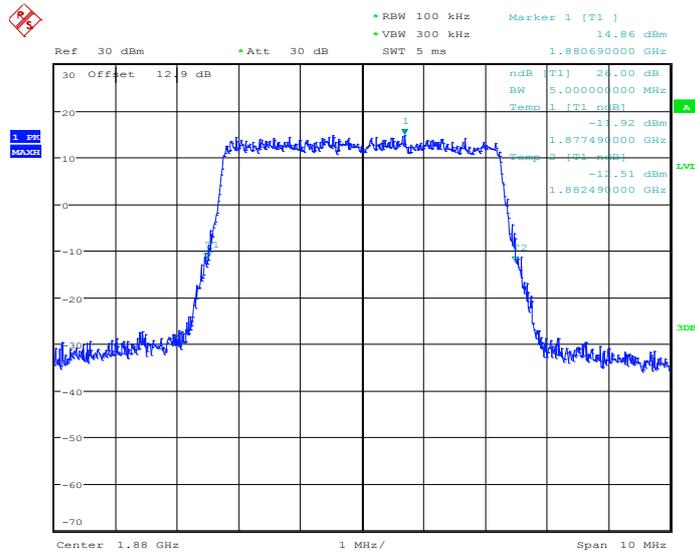


99% Occupied Bandwidth Plot on Channel 26340



Date: 25.JUN.2014 20:04:28

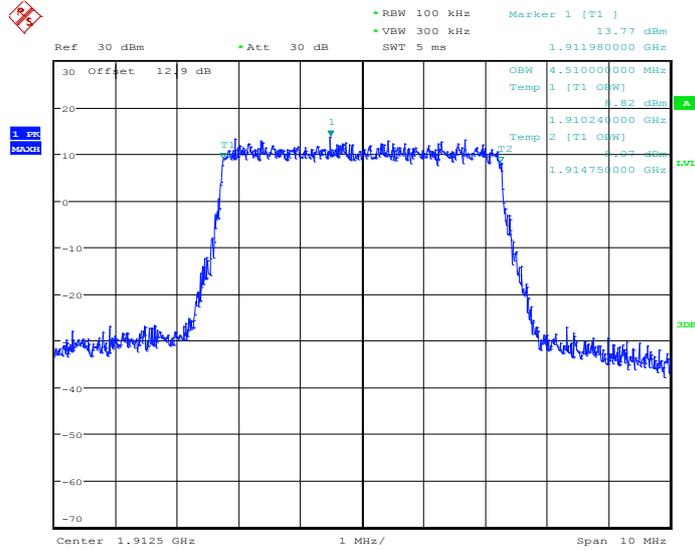
26dB Bandwidth Plot on Channel 26340



Date: 25.JUN.2014 20:05:00

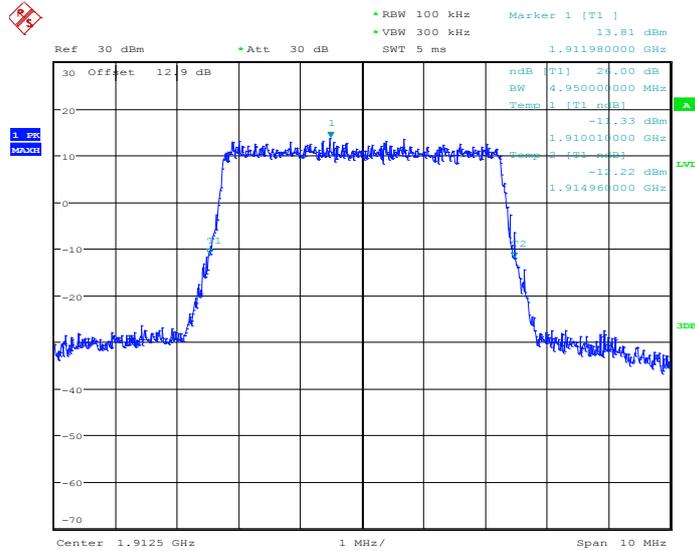


### 99% Occupied Bandwidth Plot on Channel 26665



Date: 25.JUN.2014 23:56:14

### 26dB Bandwidth Plot on Channel 26665

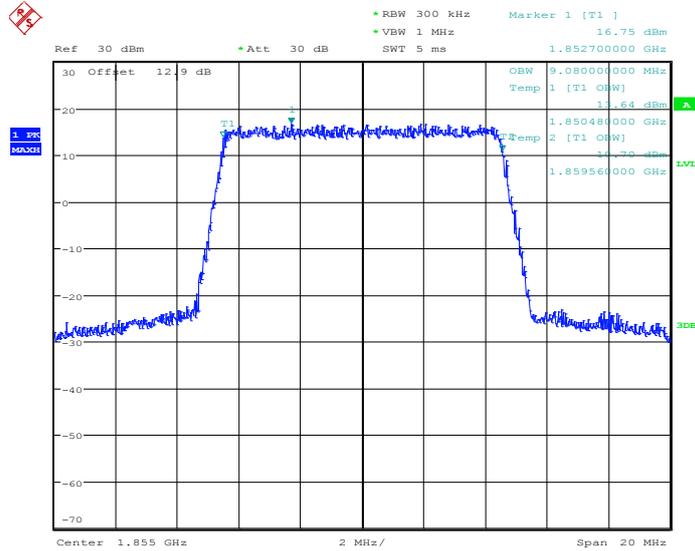


Date: 25.JUN.2014 23:56:46



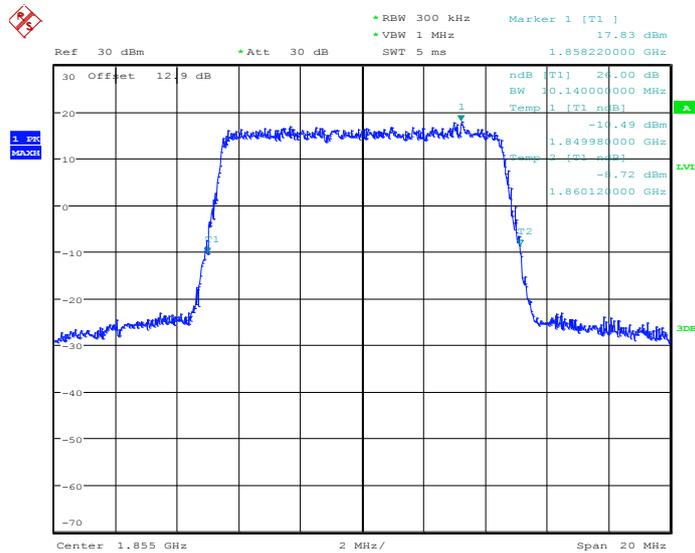
<b>Band :</b>	LTE Band 25	<b>BW / Mod. :</b>	10MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 26090



Date: 25.JUN.2014 20:13:12

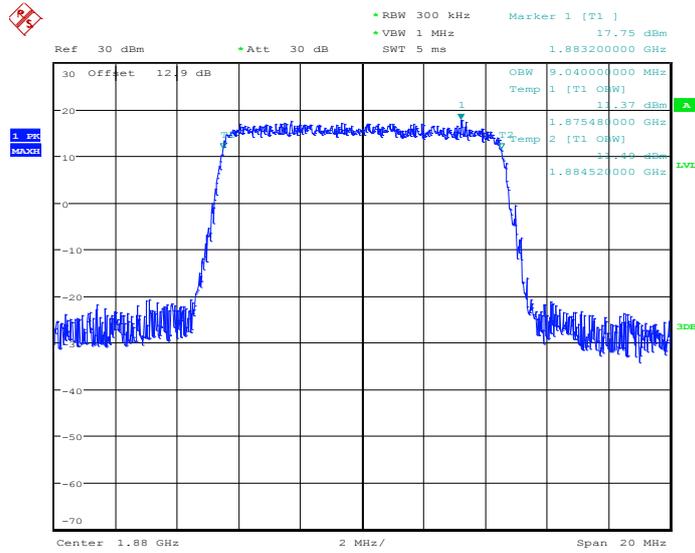
26dB Bandwidth Plot on Channel 26090



Date: 25.JUN.2014 20:13:41

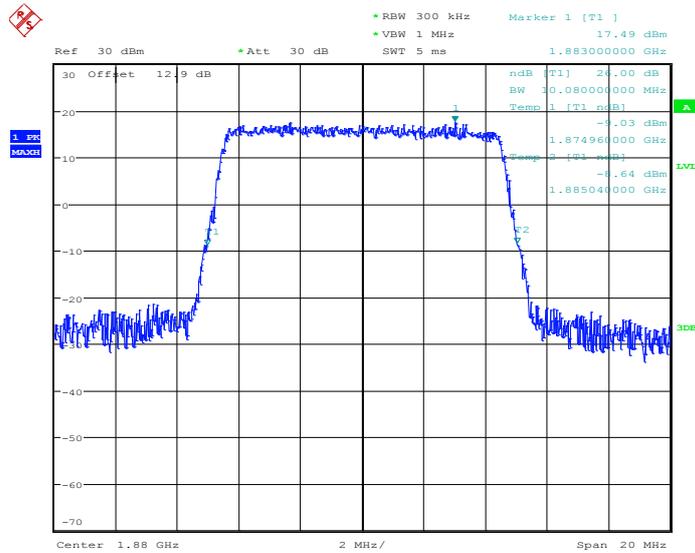


99% Occupied Bandwidth Plot on Channel 26340



Date: 25.JUN.2014 20:19:08

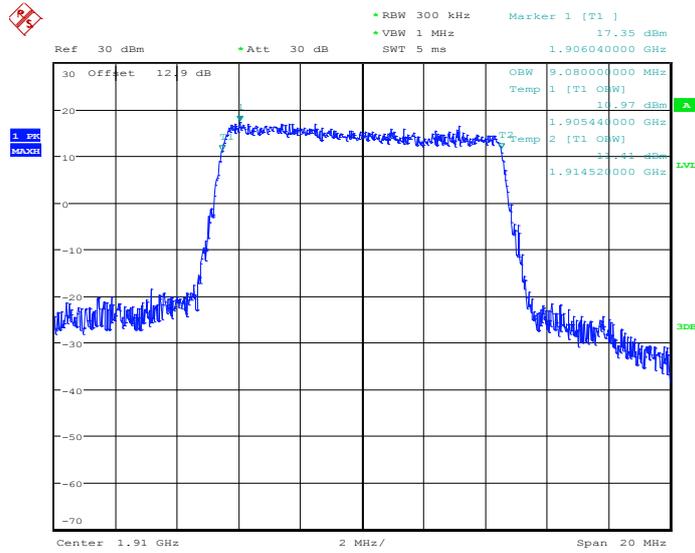
26dB Bandwidth Plot on Channel 26340



Date: 25.JUN.2014 20:19:37

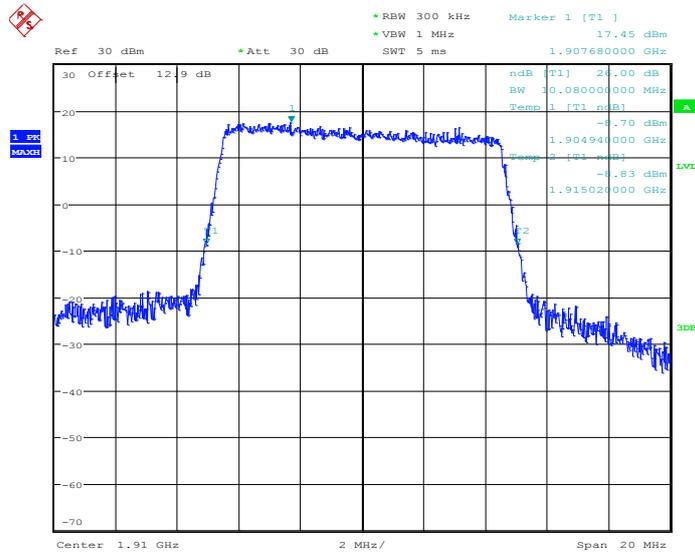


### 99% Occupied Bandwidth Plot on Channel 26640



Date: 26.JUN.2014 00:02:04

### 26dB Bandwidth Plot on Channel 26640

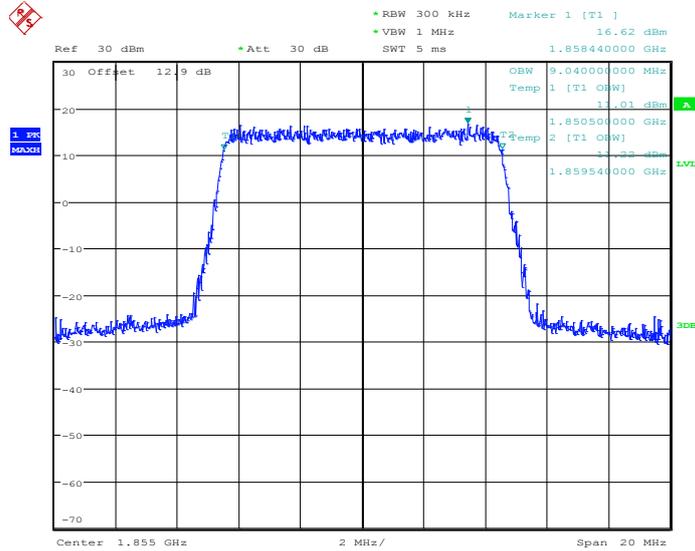


Date: 26.JUN.2014 00:02:34



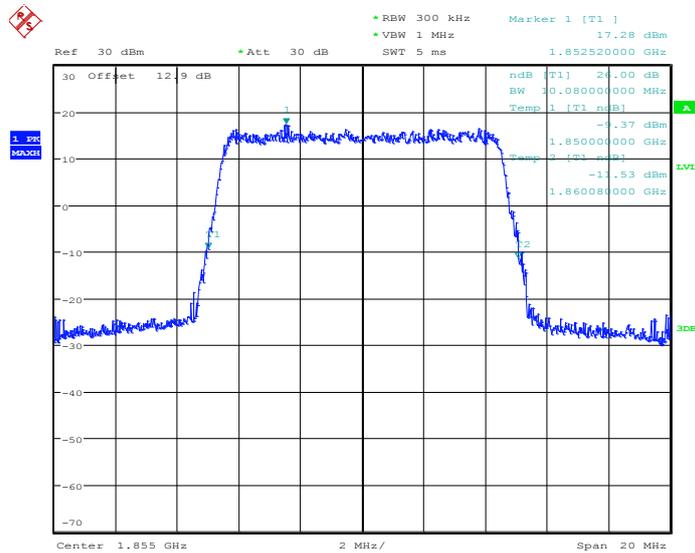
<b>Band :</b>	LTE Band 25	<b>BW / Mod. :</b>	10MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 26090



Date: 25.JUN.2014 20:13:25

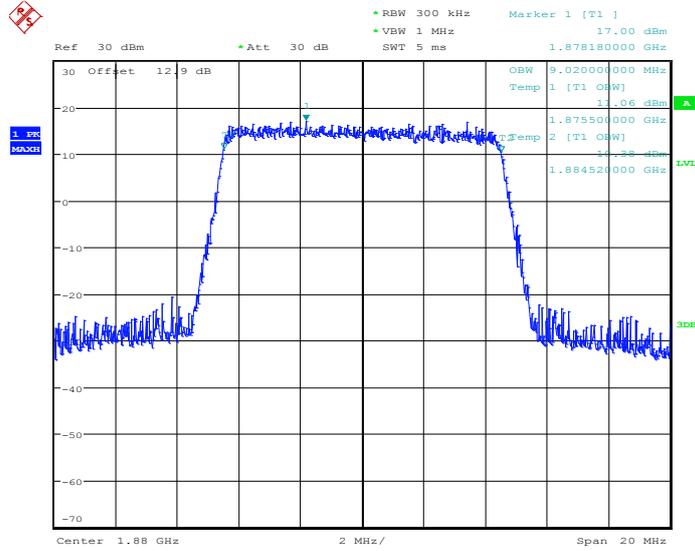
26dB Bandwidth Plot on Channel 26090



Date: 25.JUN.2014 20:13:57

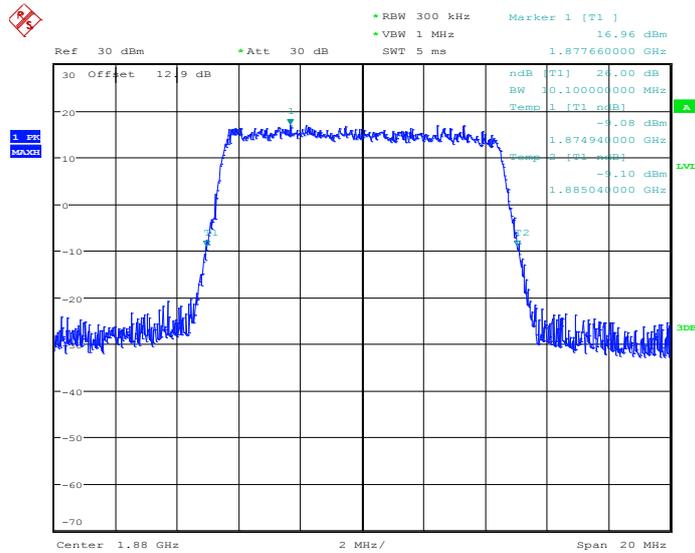


99% Occupied Bandwidth Plot on Channel 26340



Date: 25.JUN.2014 20:19:21

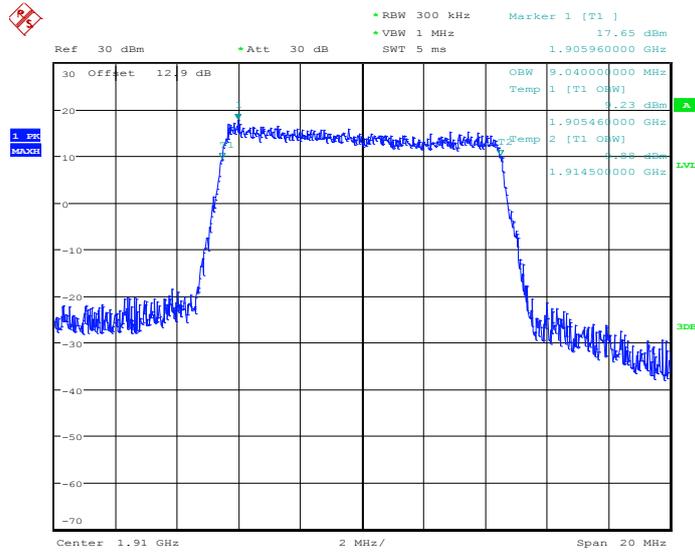
26dB Bandwidth Plot on Channel 26340



Date: 25.JUN.2014 20:19:53

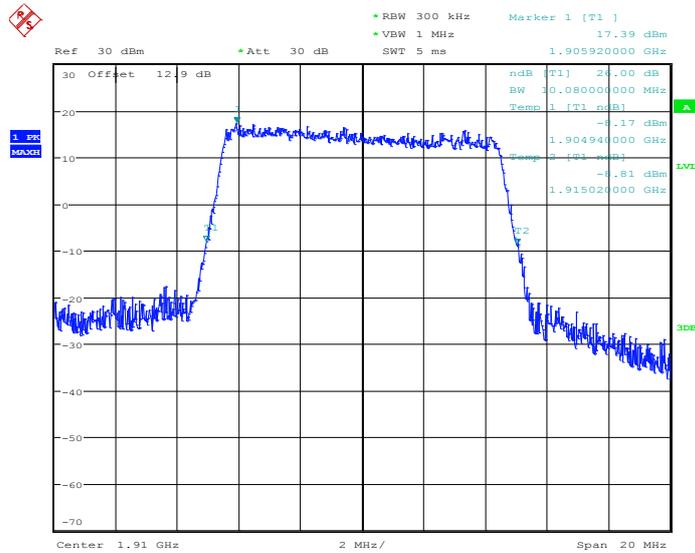


99% Occupied Bandwidth Plot on Channel 26640



Date: 26.JUN.2014 00:02:18

26dB Bandwidth Plot on Channel 26640

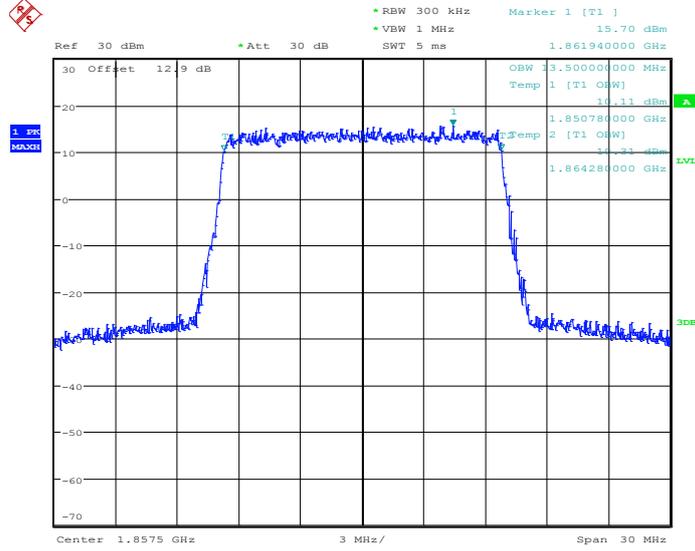


Date: 26.JUN.2014 00:02:50



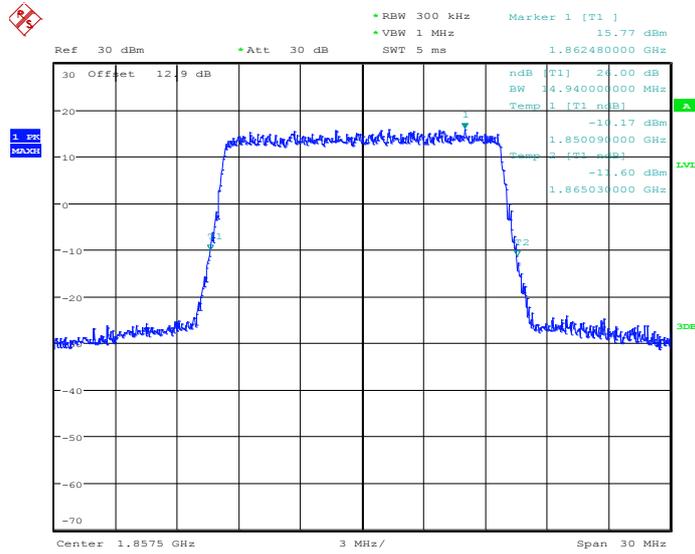
<b>Band :</b>	LTE Band 25	<b>BW / Mod. :</b>	15MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 26115



Date: 25.JUN.2014 20:28:04

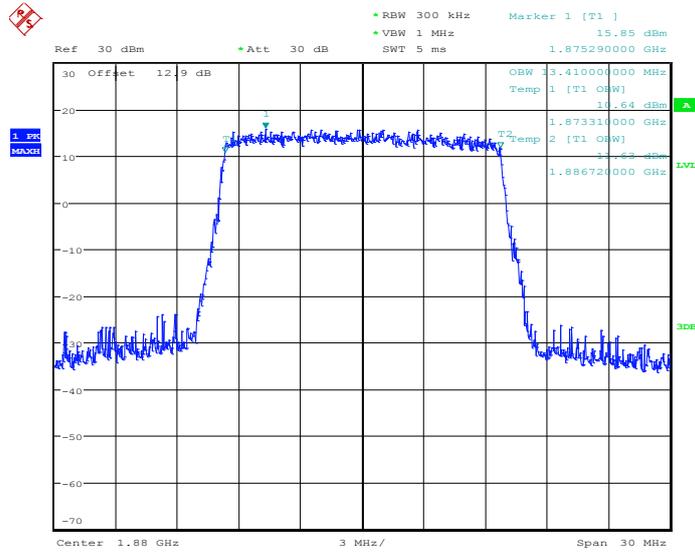
26dB Bandwidth Plot on Channel 26115



Date: 25.JUN.2014 20:28:34

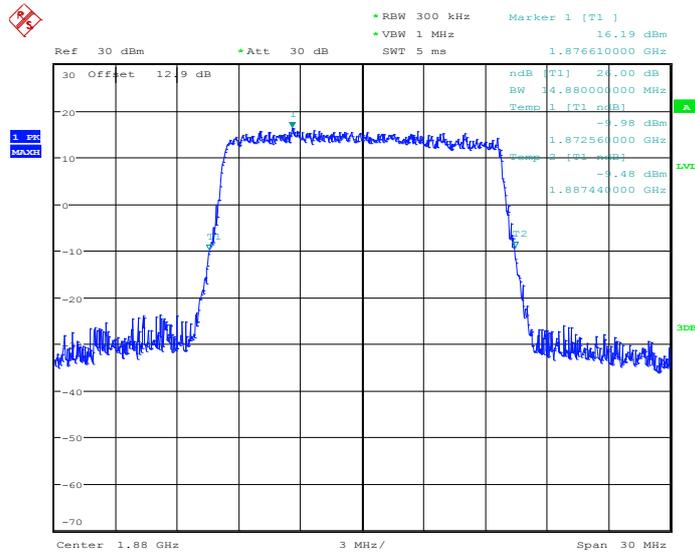


### 99% Occupied Bandwidth Plot on Channel 26340



Date: 25.JUN.2014 20:34:01

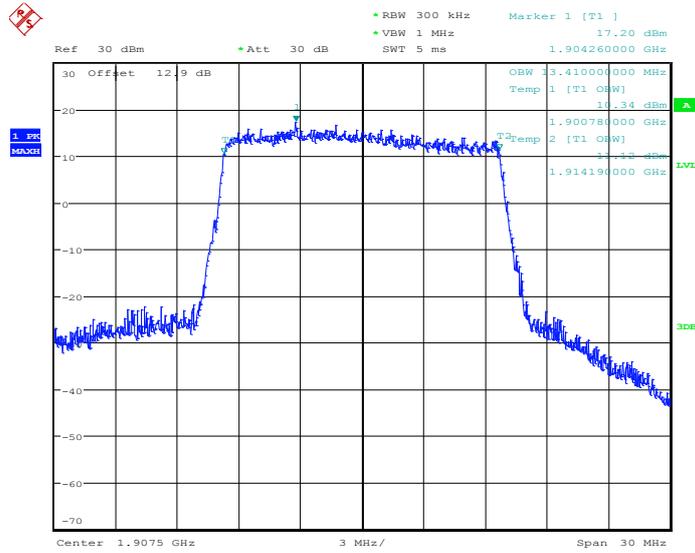
### 26dB Bandwidth Plot on Channel 26340



Date: 25.JUN.2014 20:34:30

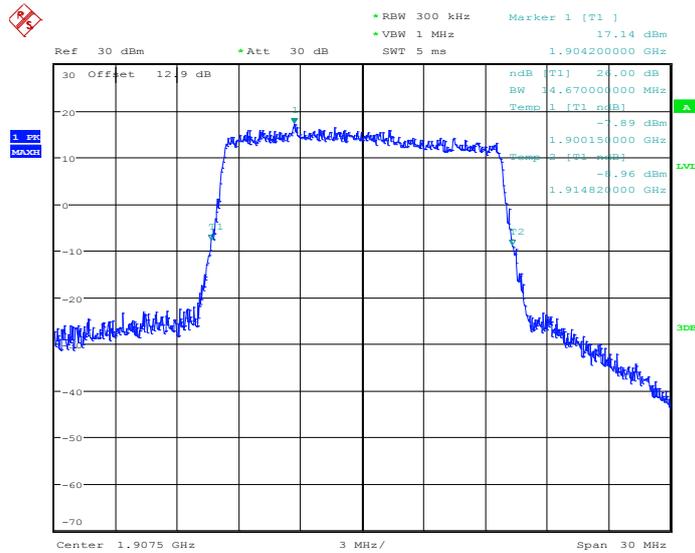


### 99% Occupied Bandwidth Plot on Channel 26615



Date: 26.JUN.2014 00:08:08

### 26dB Bandwidth Plot on Channel 26615

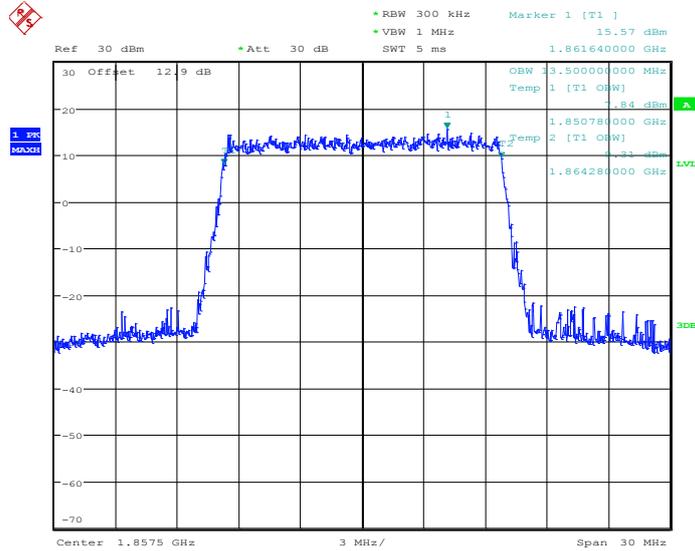


Date: 26.JUN.2014 00:08:37



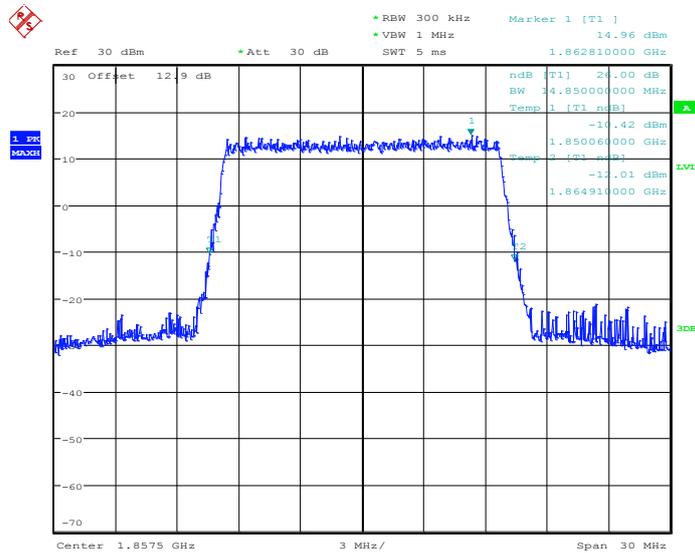
<b>Band :</b>	LTE Band 25	<b>BW / Mod. :</b>	15MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 26115



Date: 25.JUN.2014 20:28:18

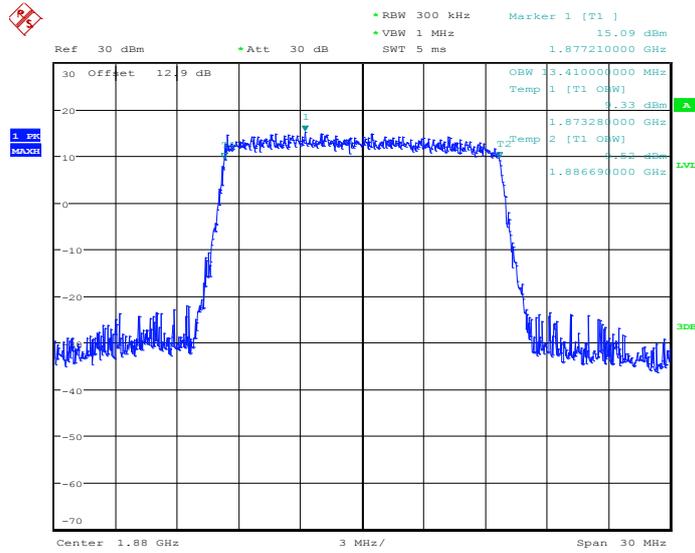
26dB Bandwidth Plot on Channel 26115



Date: 25.JUN.2014 20:28:50

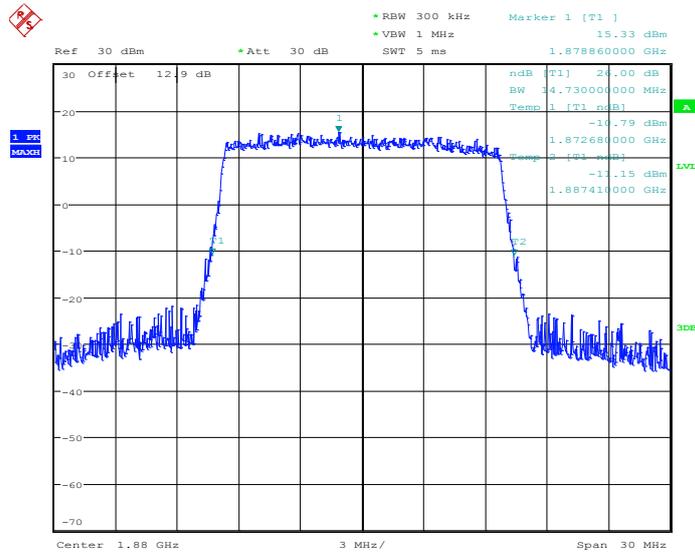


### 99% Occupied Bandwidth Plot on Channel 26340



Date: 25.JUN.2014 20:34:14

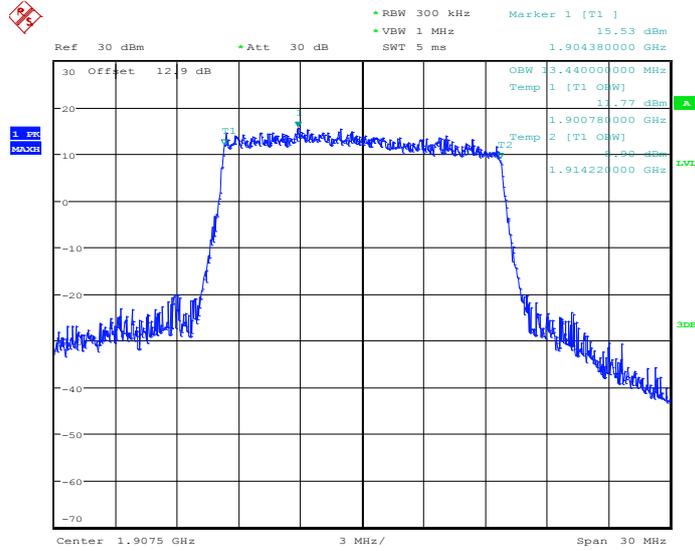
### 26dB Bandwidth Plot on Channel 26340



Date: 25.JUN.2014 20:34:46

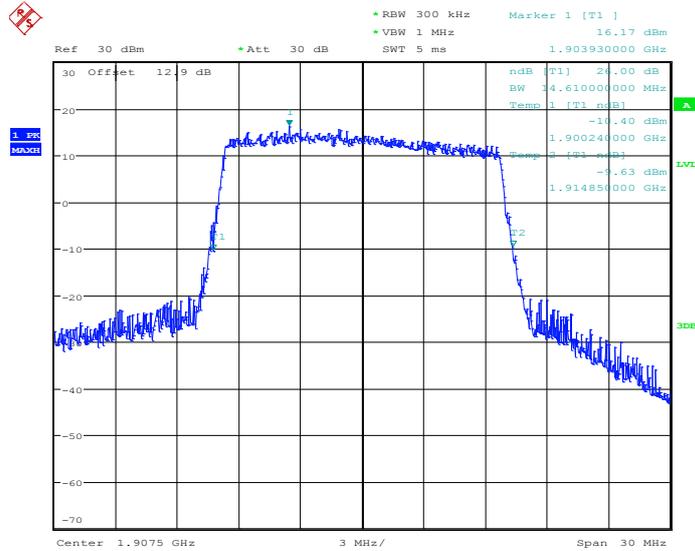


99% Occupied Bandwidth Plot on Channel 26615



Date: 26.JUN.2014 00:08:22

26dB Bandwidth Plot on Channel 26615

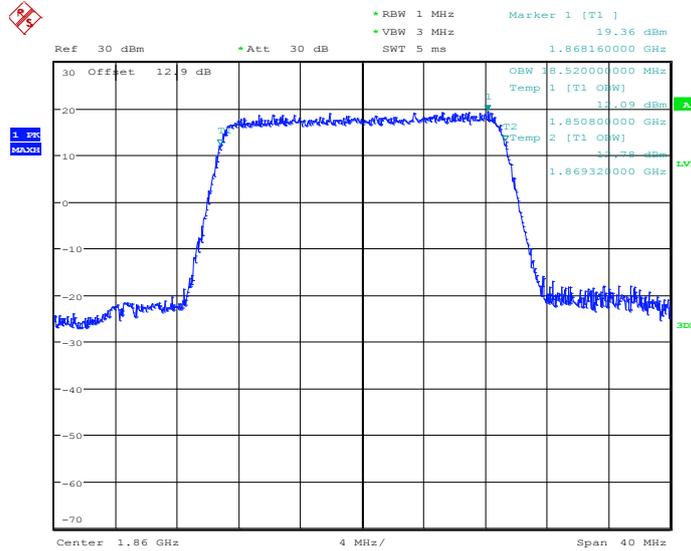


Date: 26.JUN.2014 00:08:53



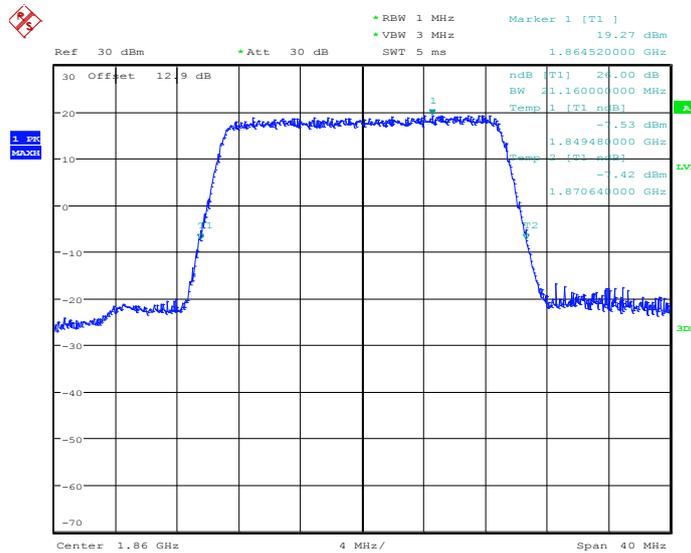
Band :	LTE Band 25	BW / Mod. :	20MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 26140



Date: 25.JUN.2014 20:42:57

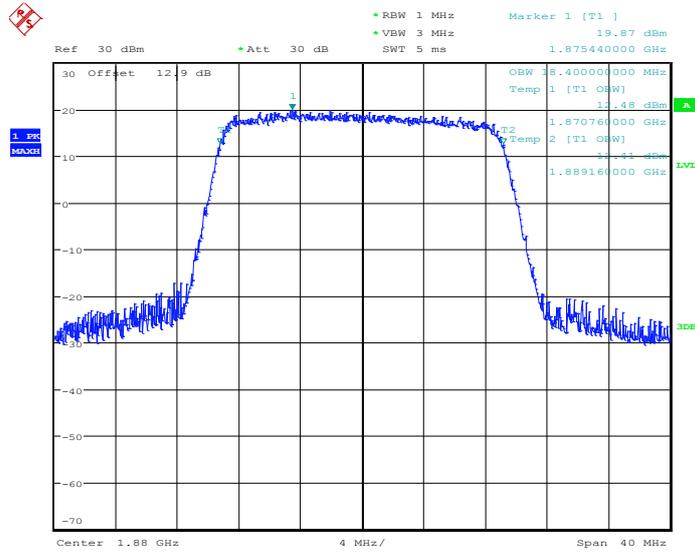
26dB Bandwidth Plot on Channel 26140



Date: 25.JUN.2014 20:43:26

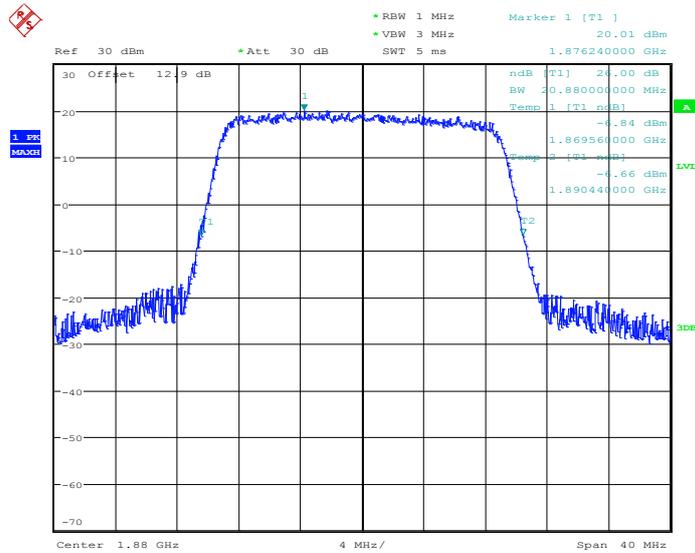


### 99% Occupied Bandwidth Plot on Channel 26340



Date: 25.JUN.2014 20:48:53

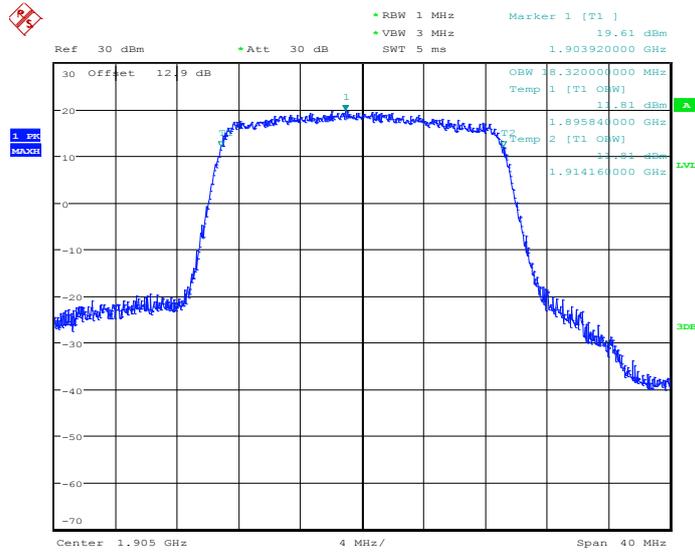
### 26dB Bandwidth Plot on Channel 26340



Date: 25.JUN.2014 20:49:22

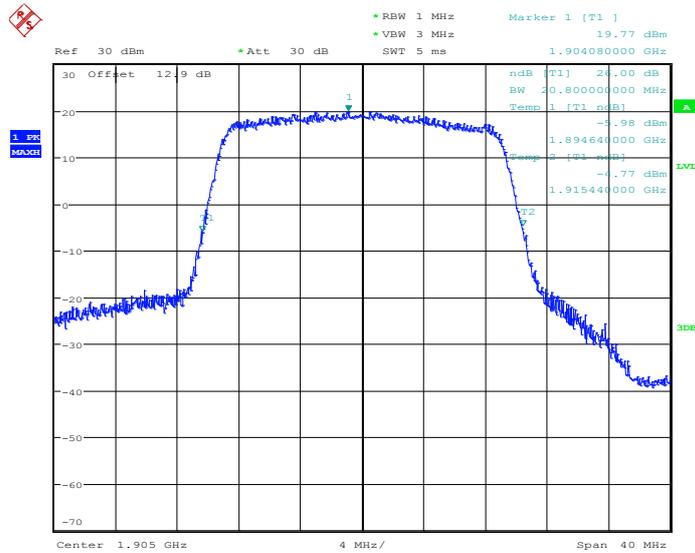


### 99% Occupied Bandwidth Plot on Channel 26590



Date: 26.JUN.2014 00:14:13

### 26dB Bandwidth Plot on Channel 26590

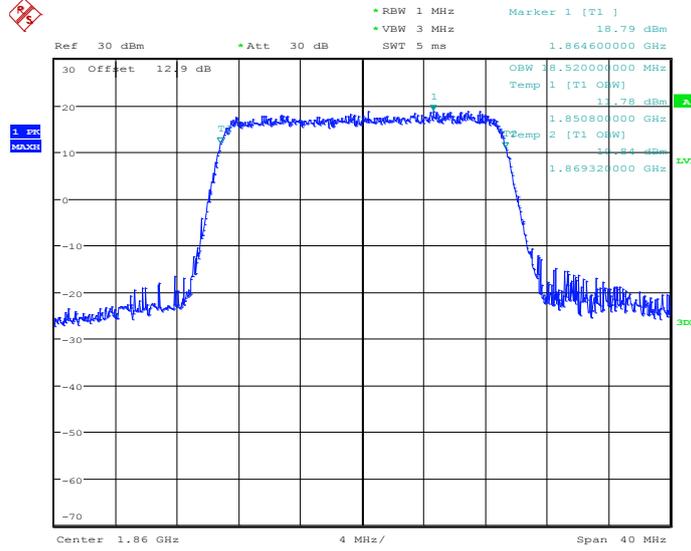


Date: 26.JUN.2014 00:14:45



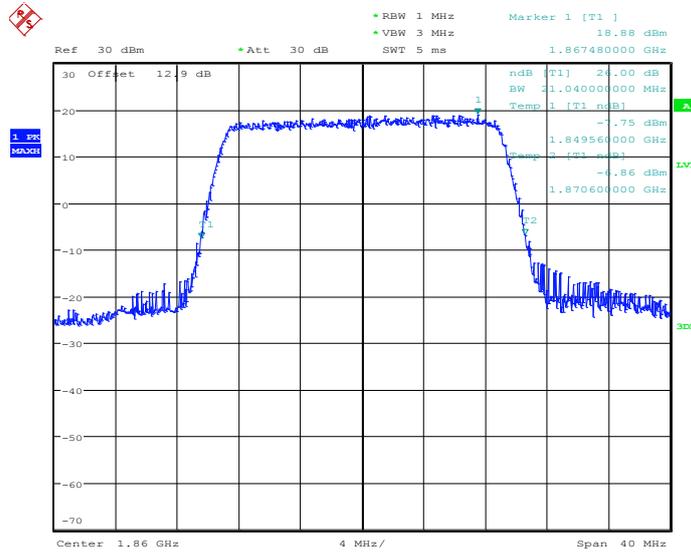
<b>Band :</b>	LTE Band 25	<b>BW / Mod. :</b>	20MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 26140



Date: 25.JUN.2014 20:43:11

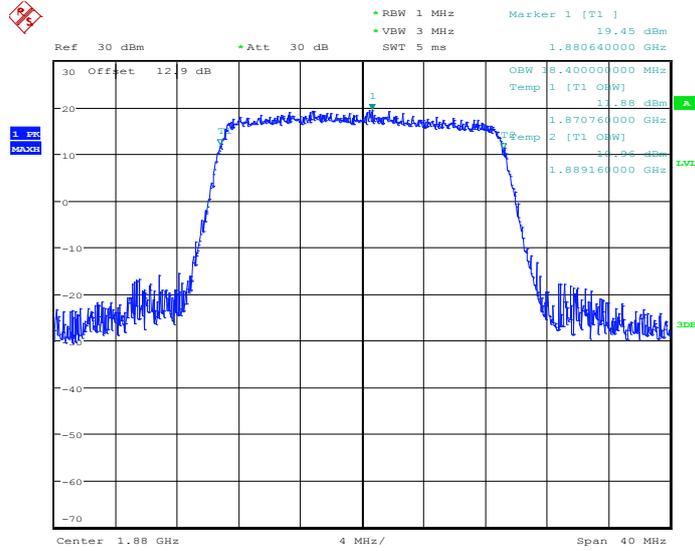
26dB Bandwidth Plot on Channel 26140



Date: 25.JUN.2014 20:43:42

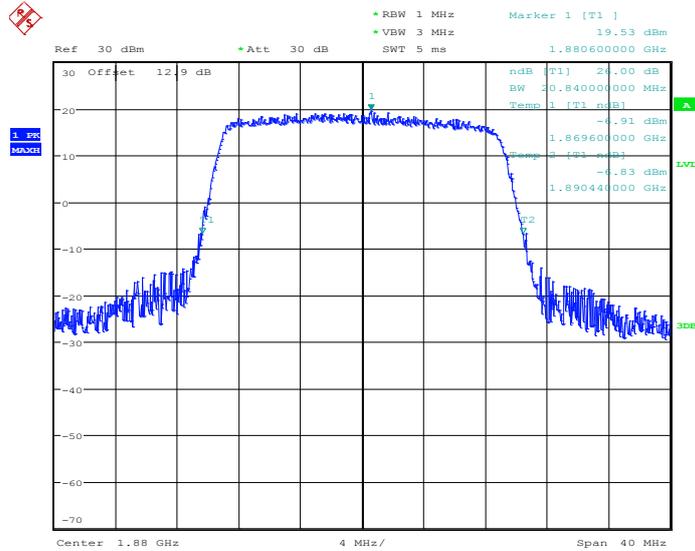


### 99% Occupied Bandwidth Plot on Channel 26340



Date: 25.JUN.2014 20:49:06

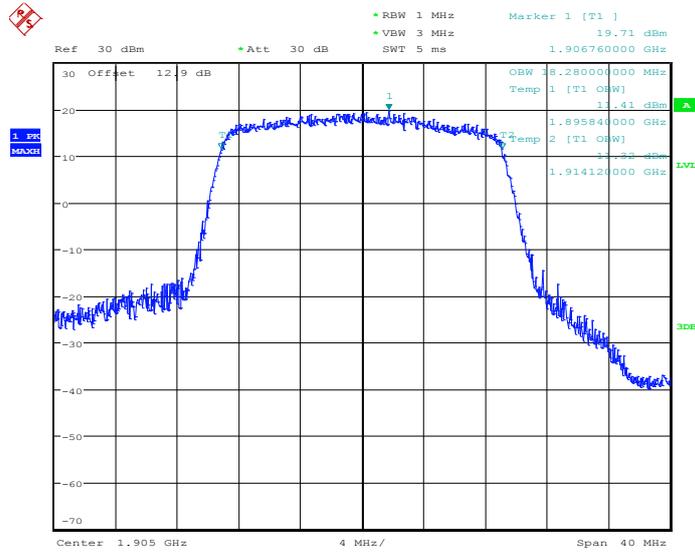
### 26dB Bandwidth Plot on Channel 26340



Date: 25.JUN.2014 20:49:38

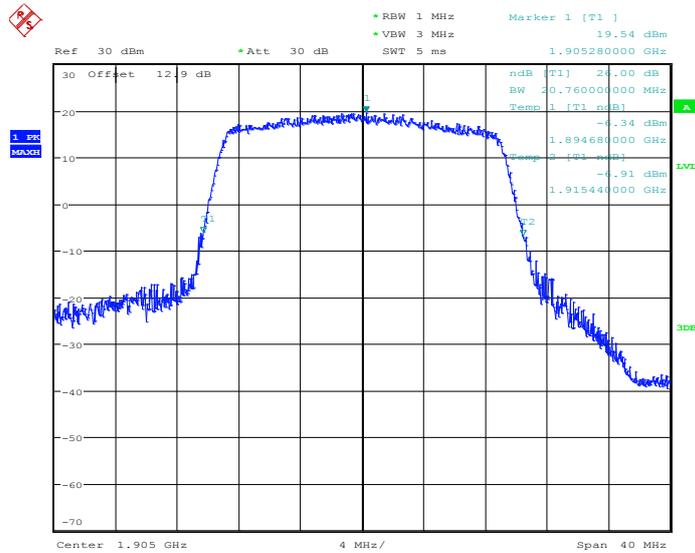


### 99% Occupied Bandwidth Plot on Channel 26590



Date: 26.JUN.2014 00:14:28

### 26dB Bandwidth Plot on Channel 26590

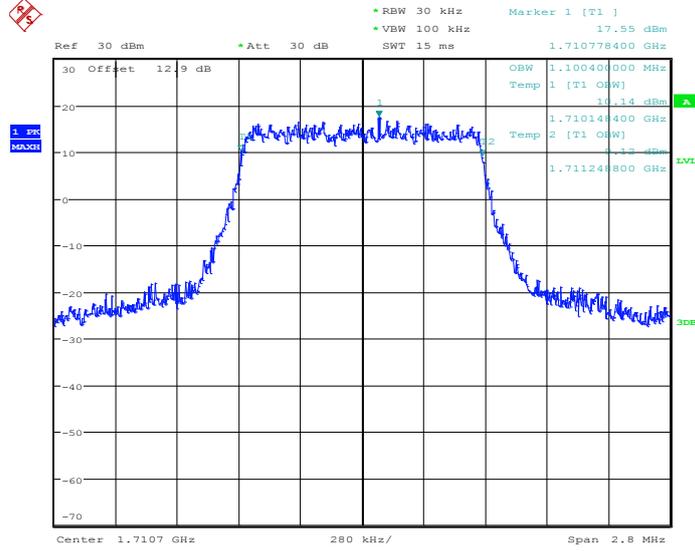


Date: 26.JUN.2014 00:15:02



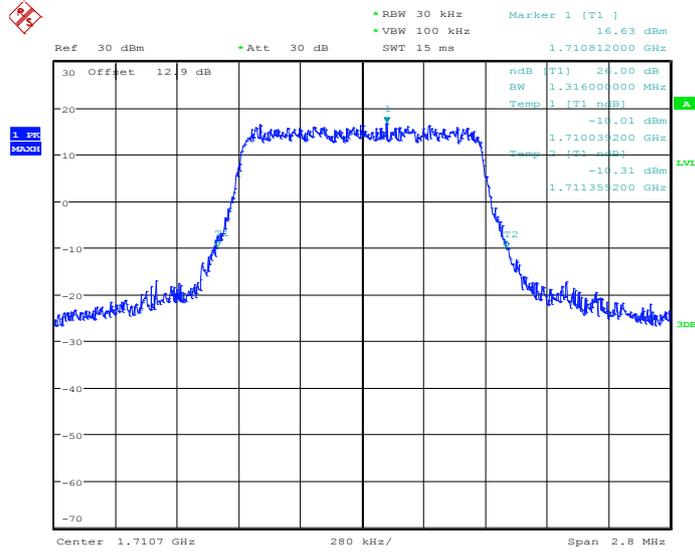
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	1.4MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 1957



Date: 25.JUN.2014 21:00:25

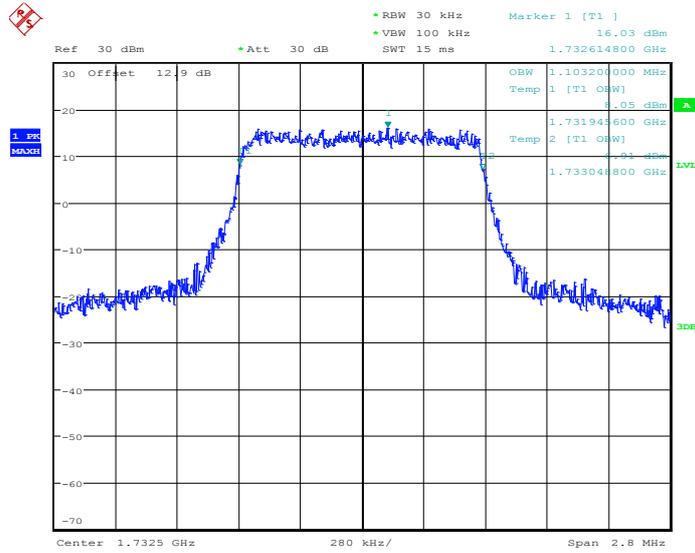
26dB Bandwidth Plot on Channel 1957



Date: 25.JUN.2014 21:00:54

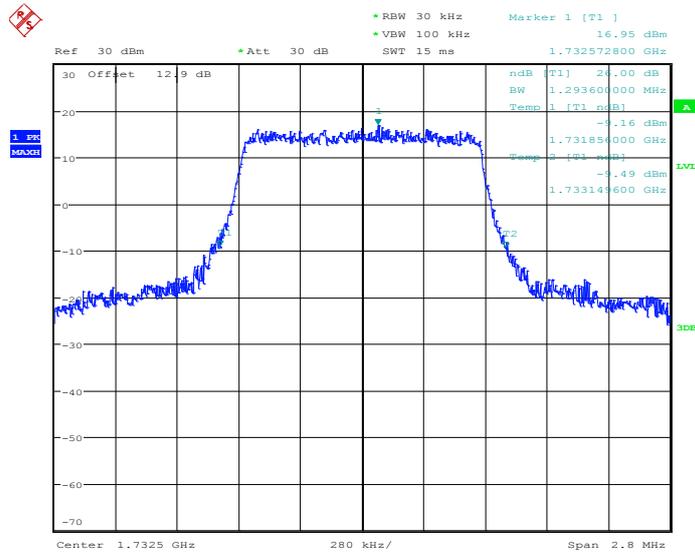


### 99% Occupied Bandwidth Plot on Channel 20175



Date: 25.JUN.2014 21:06:24

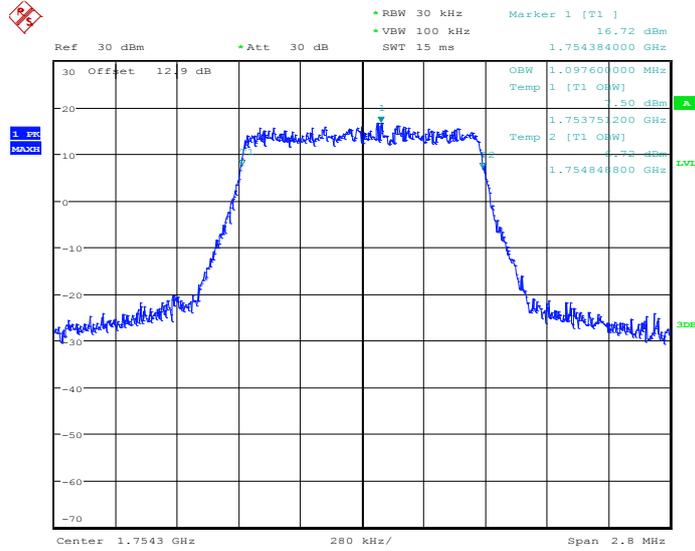
### 26dB Bandwidth Plot on Channel 20175



Date: 25.JUN.2014 21:06:53

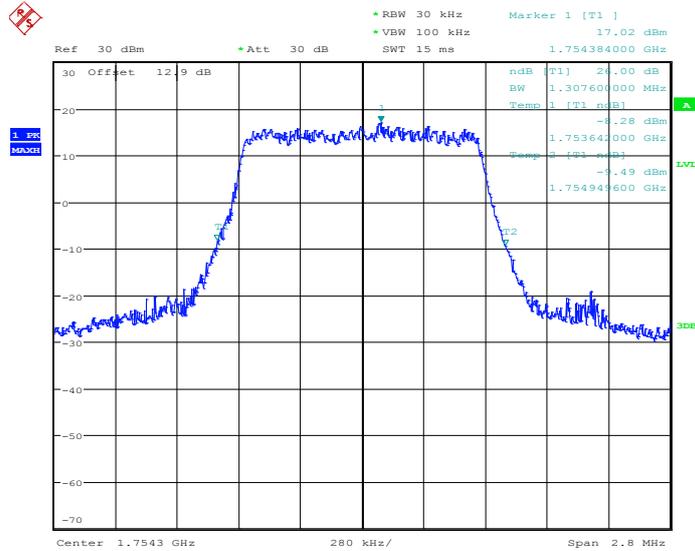


99% Occupied Bandwidth Plot on Channel 20393



Date: 25.JUN.2014 21:09:19

26dB Bandwidth Plot on Channel 20393

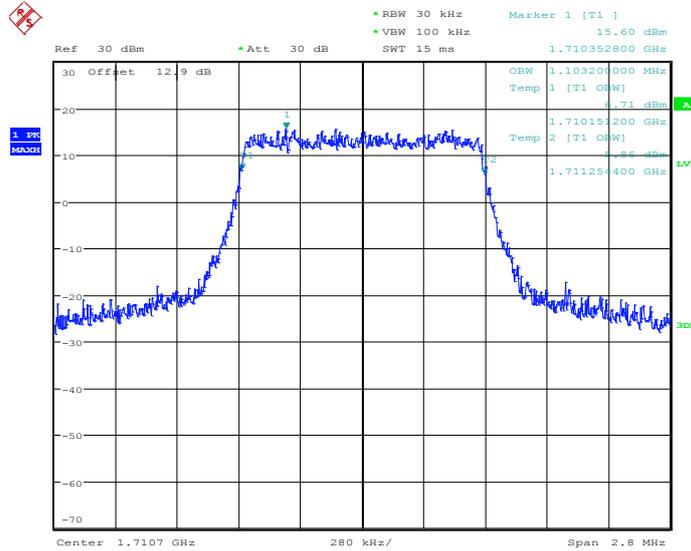


Date: 25.JUN.2014 21:09:49



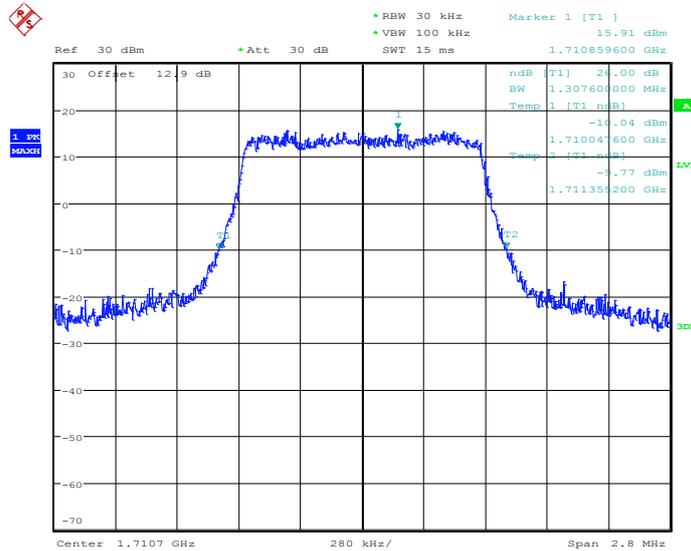
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	1.4MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 1957



Date: 25.JUN.2014 21:00:38

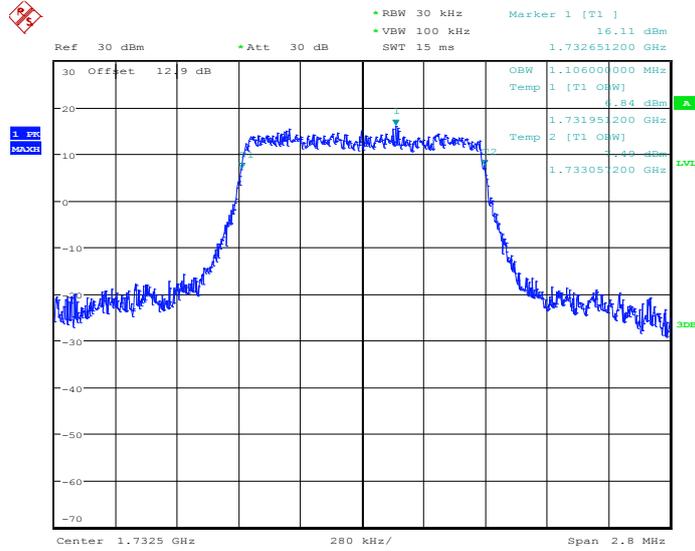
26dB Bandwidth Plot on Channel 1957



Date: 25.JUN.2014 21:01:10

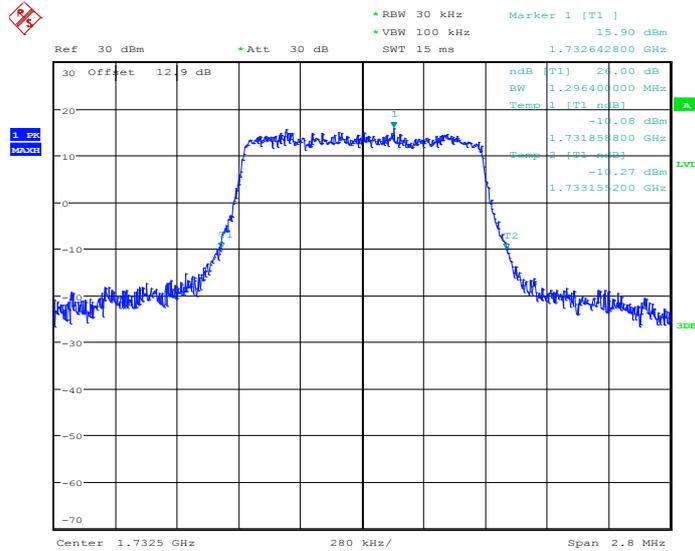


99% Occupied Bandwidth Plot on Channel 20175



Date: 25.JUN.2014 21:06:37

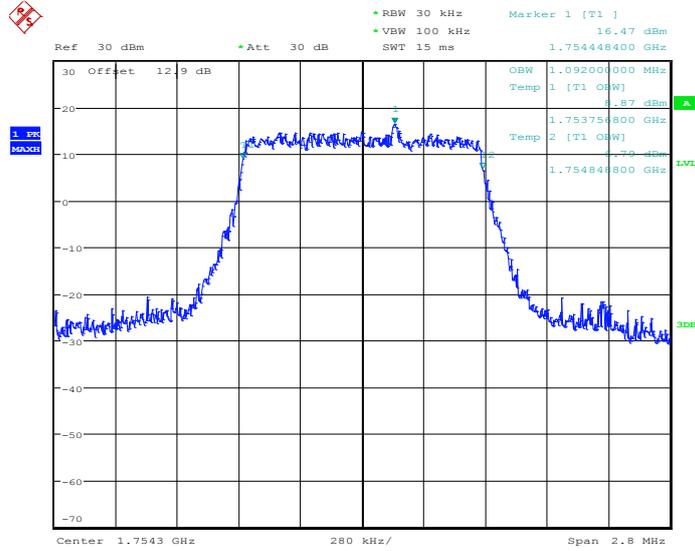
26dB Bandwidth Plot on Channel 20175



Date: 25.JUN.2014 21:07:09

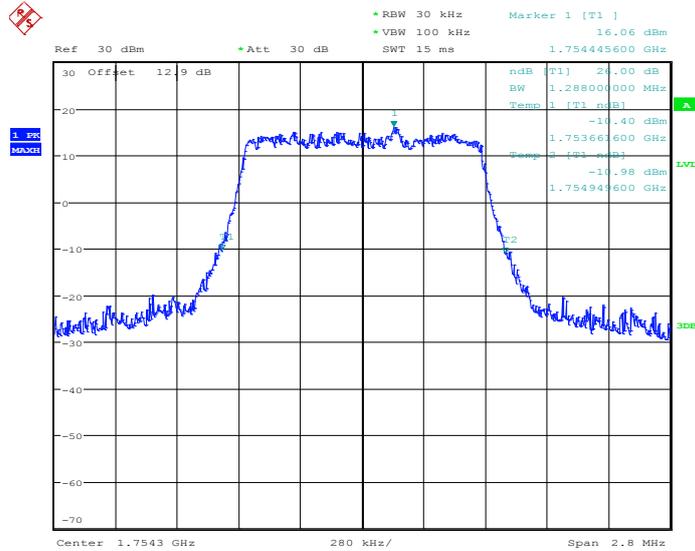


99% Occupied Bandwidth Plot on Channel 20393



Date: 25.JUN.2014 21:09:33

26dB Bandwidth Plot on Channel 20393

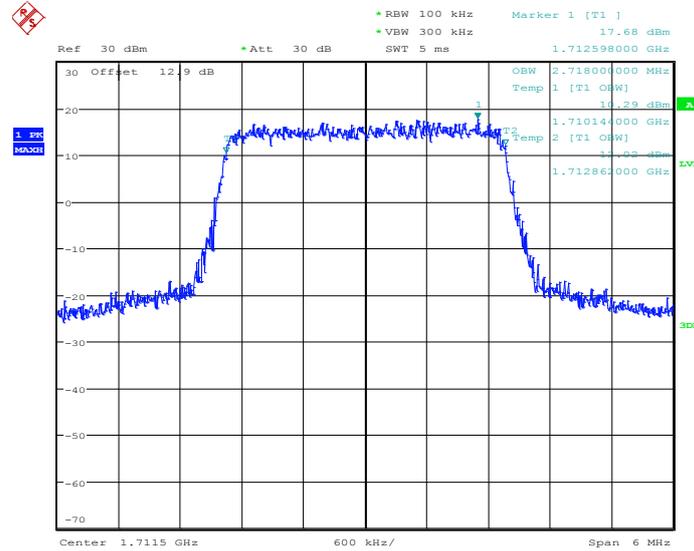


Date: 25.JUN.2014 21:10:05



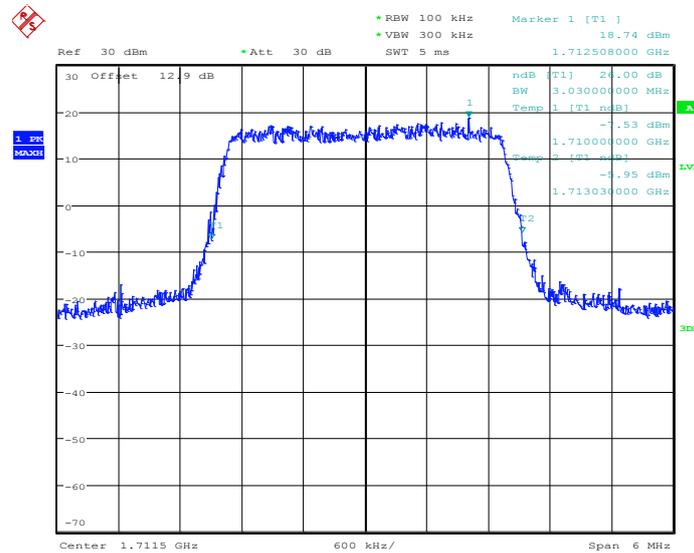
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	3MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 19965



Date: 25.JUN.2014 21:15:20

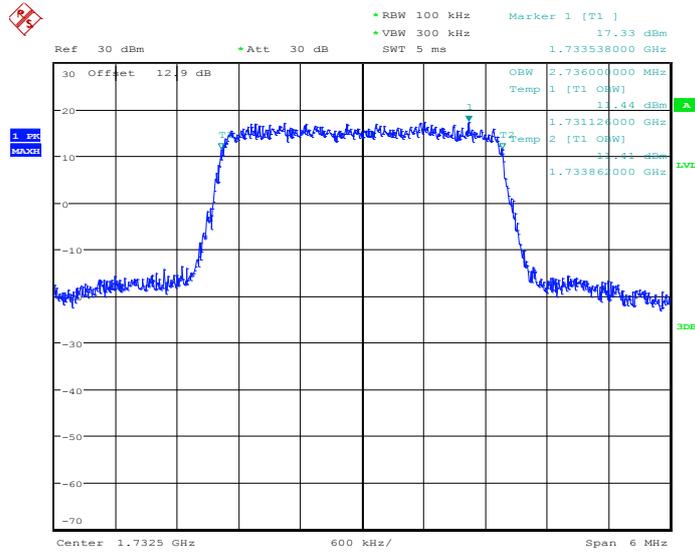
26dB Bandwidth Plot on Channel 19965



Date: 25.JUN.2014 21:15:50

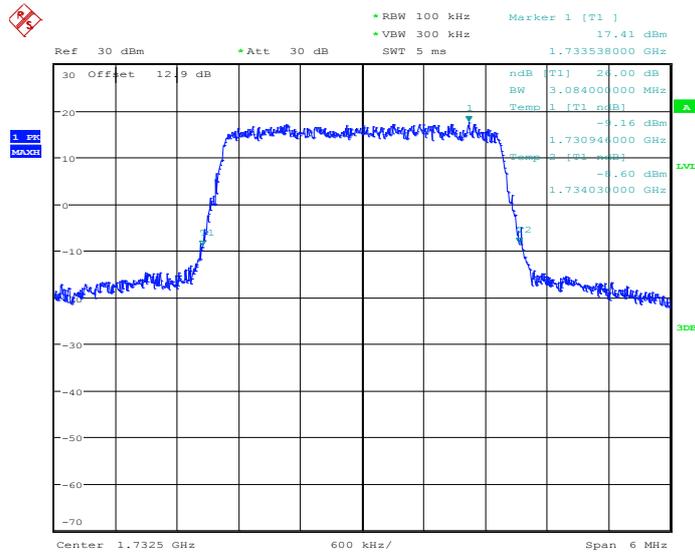


### 99% Occupied Bandwidth Plot on Channel 20175



Date: 25.JUN.2014 21:21:16

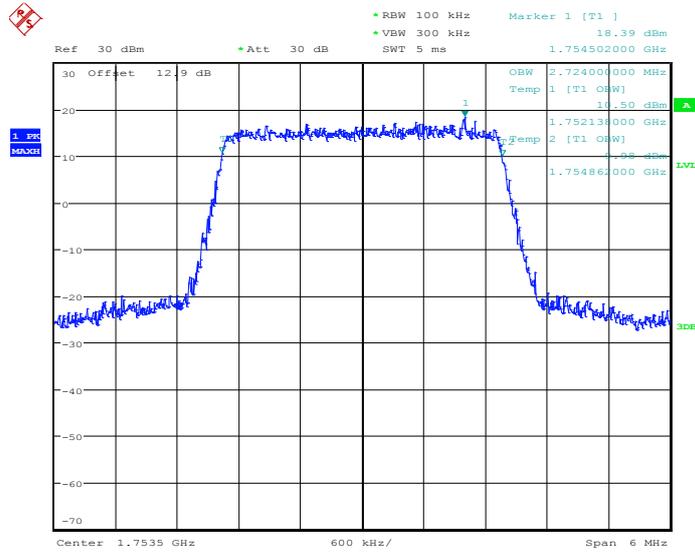
### 26dB Bandwidth Plot on Channel 20175



Date: 25.JUN.2014 21:21:46

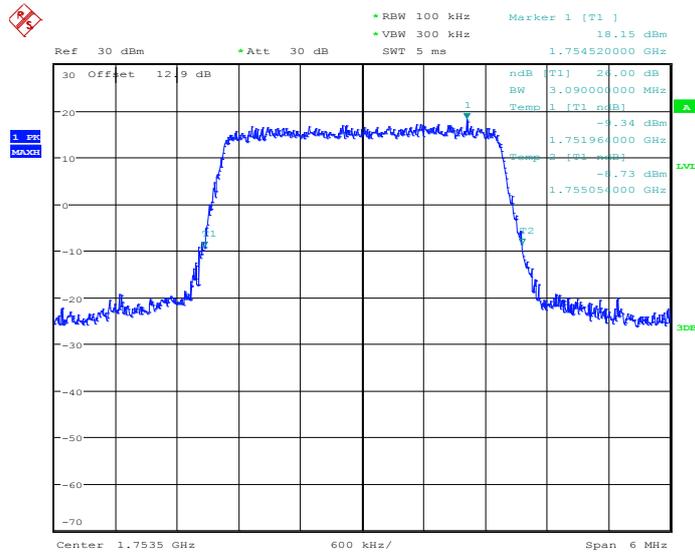


99% Occupied Bandwidth Plot on Channel 20385



Date: 25.JUN.2014 21:24:13

26dB Bandwidth Plot on Channel 20385

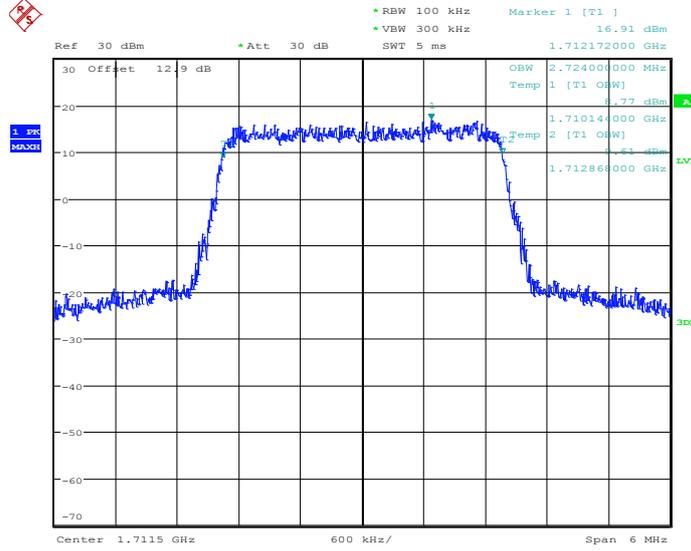


Date: 25.JUN.2014 21:24:42



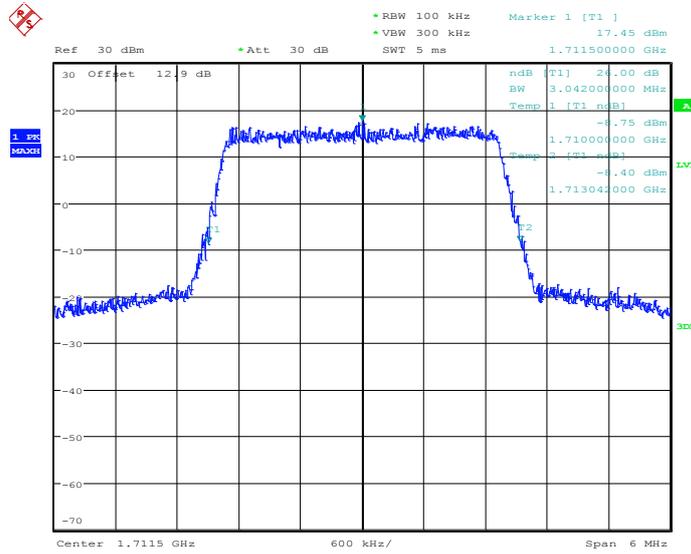
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	3MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 19965



Date: 25.JUN.2014 21:15:34

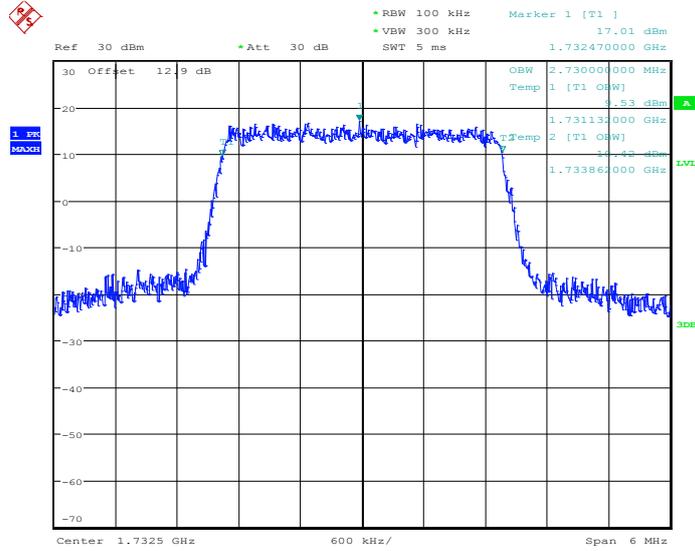
26dB Bandwidth Plot on Channel 19965



Date: 25.JUN.2014 21:16:05

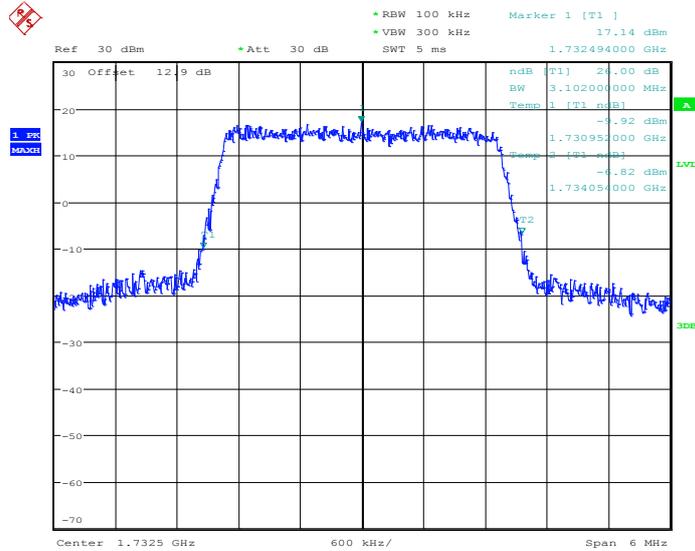


### 99% Occupied Bandwidth Plot on Channel 20175



Date: 25.JUN.2014 21:21:30

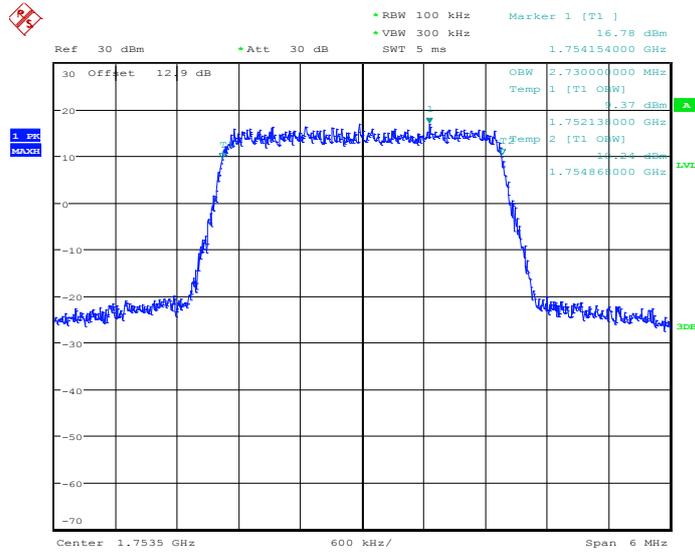
### 26dB Bandwidth Plot on Channel 20175



Date: 25.JUN.2014 21:22:02

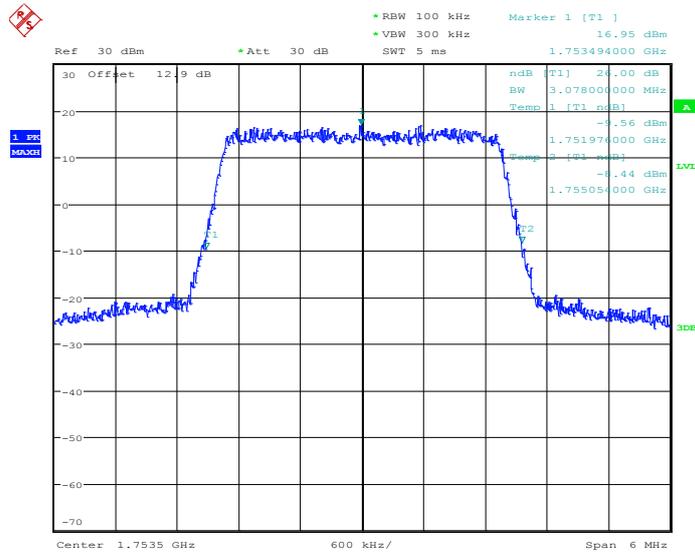


### 99% Occupied Bandwidth Plot on Channel 20385



Date: 25.JUN.2014 21:24:26

### 26dB Bandwidth Plot on Channel 20385

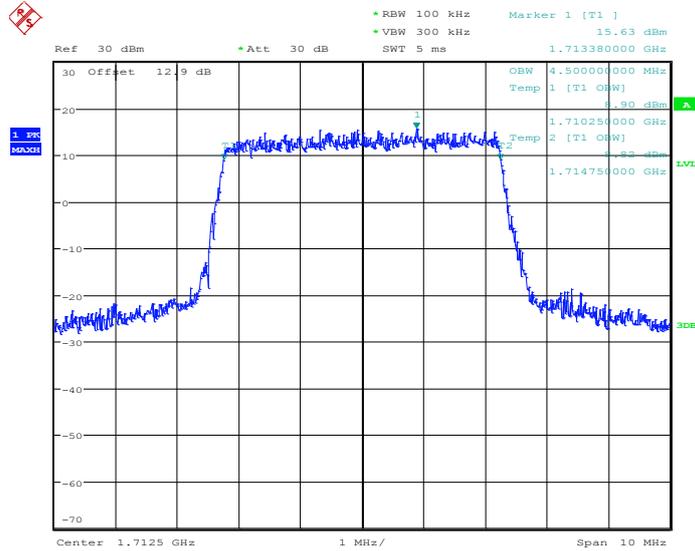


Date: 25.JUN.2014 21:24:58



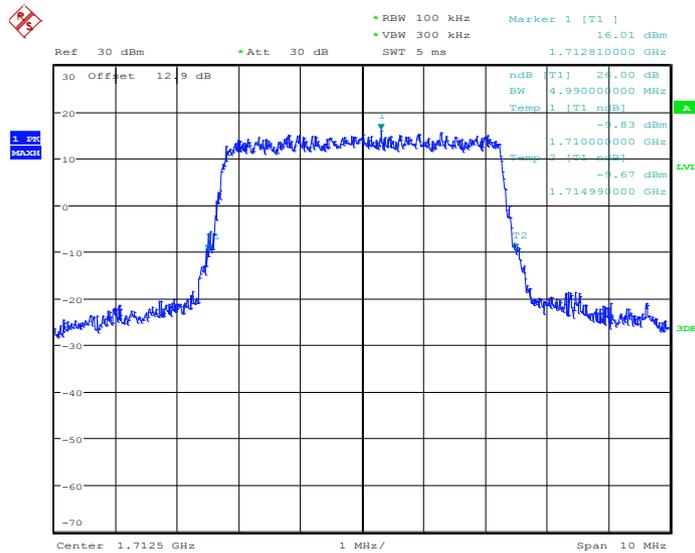
Band :	LTE Band 4	BW / Mod. :	5MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 19975



Date: 25.JUN.2014 21:30:13

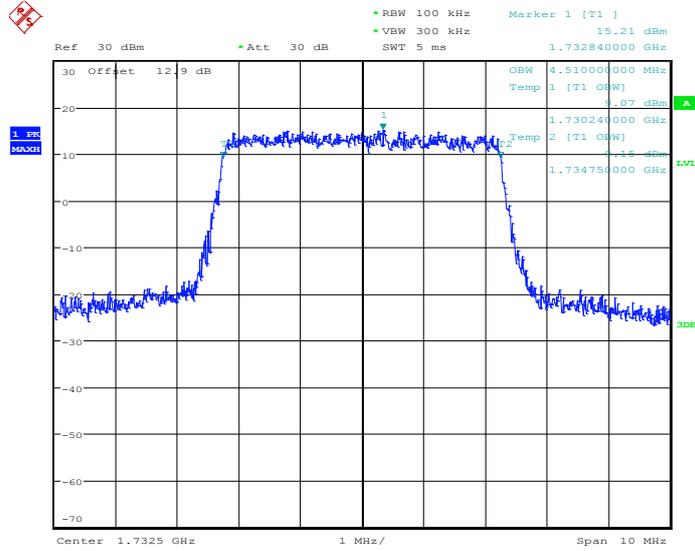
26dB Bandwidth Plot on Channel 19975



Date: 25.JUN.2014 21:30:43

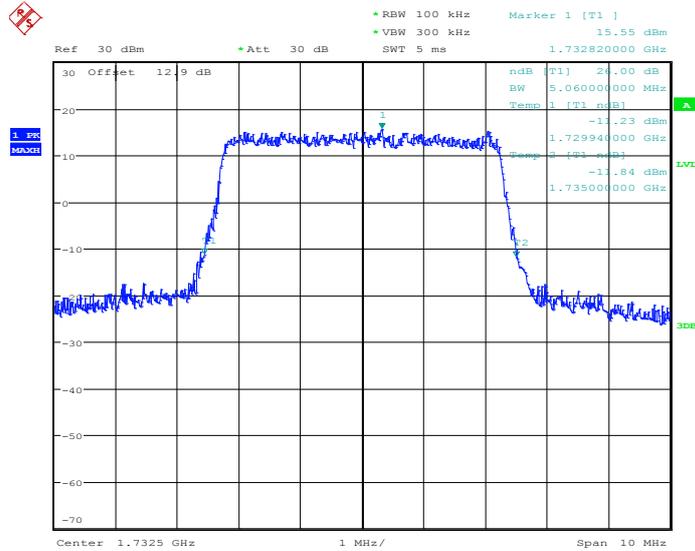


99% Occupied Bandwidth Plot on Channel 20175



Date: 25.JUN.2014 21:36:10

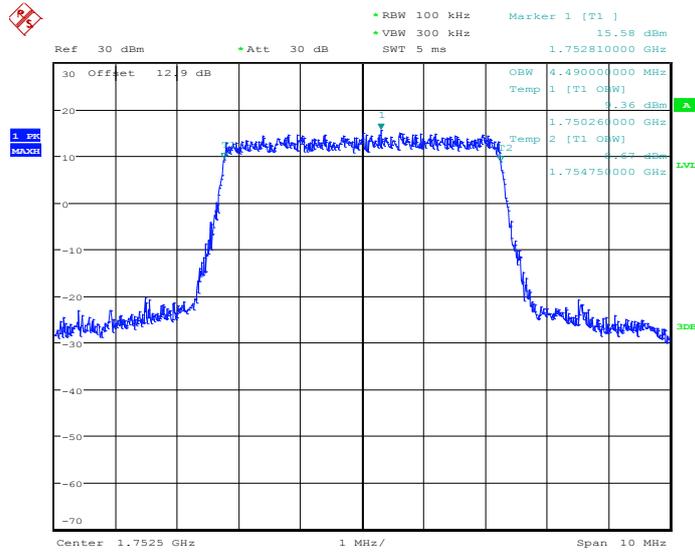
26dB Bandwidth Plot on Channel 20175



Date: 25.JUN.2014 21:36:40

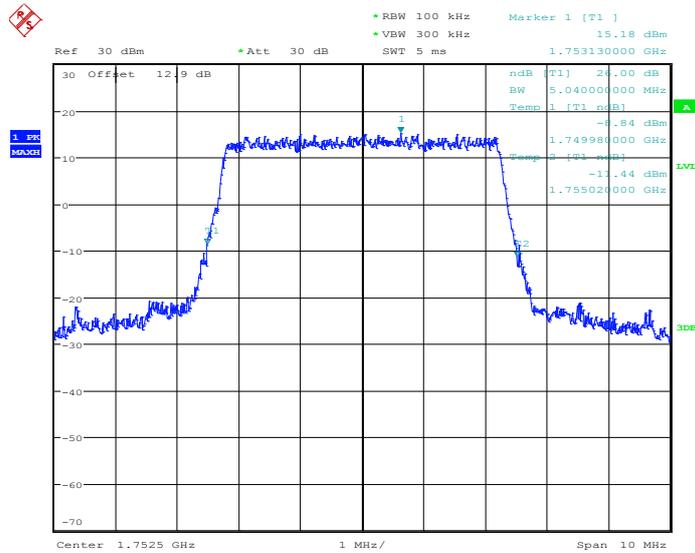


### 99% Occupied Bandwidth Plot on Channel 20375



Date: 25.JUN.2014 21:39:06

### 26dB Bandwidth Plot on Channel 20375

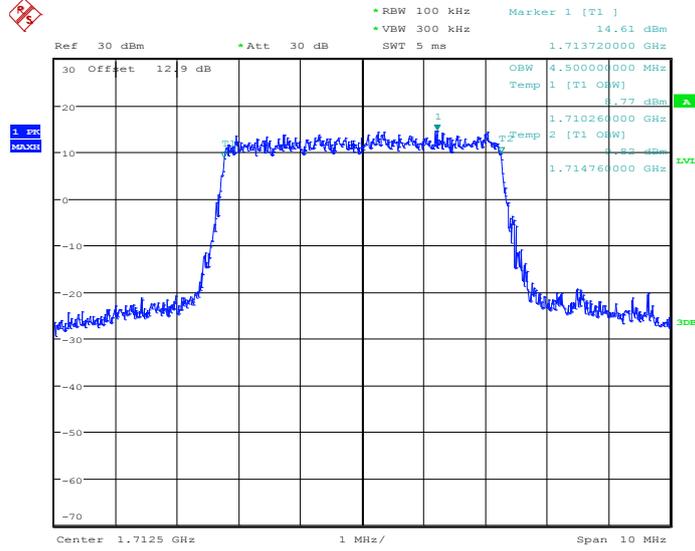


Date: 25.JUN.2014 21:39:35



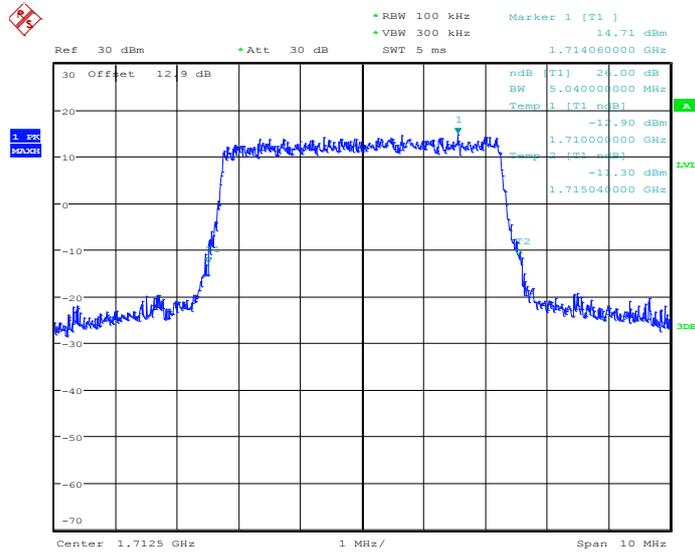
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	5MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 19975



Date: 25.JUN.2014 21:30:27

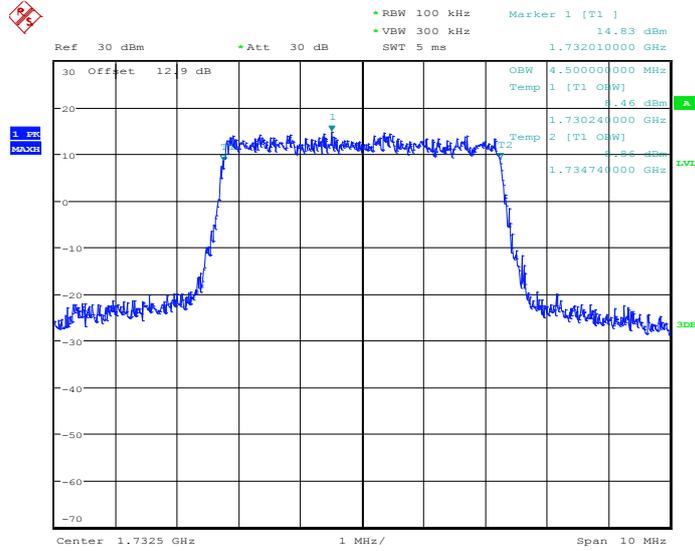
26dB Bandwidth Plot on Channel 19975



Date: 25.JUN.2014 21:30:59

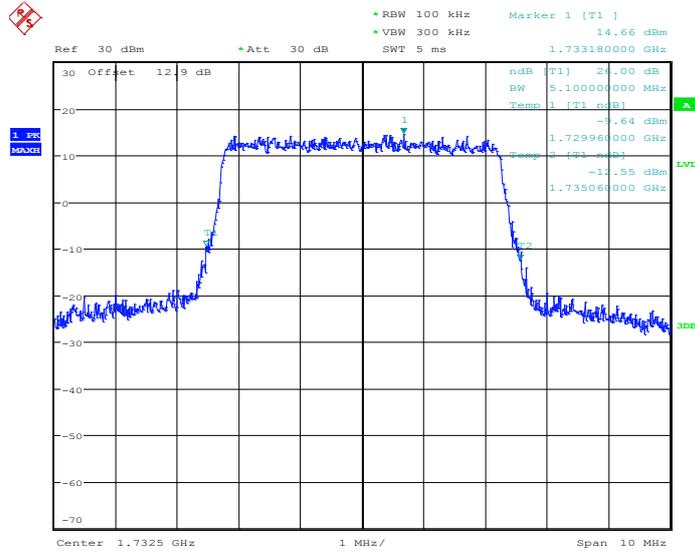


99% Occupied Bandwidth Plot on Channel 20175



Date: 25.JUN.2014 21:36:24

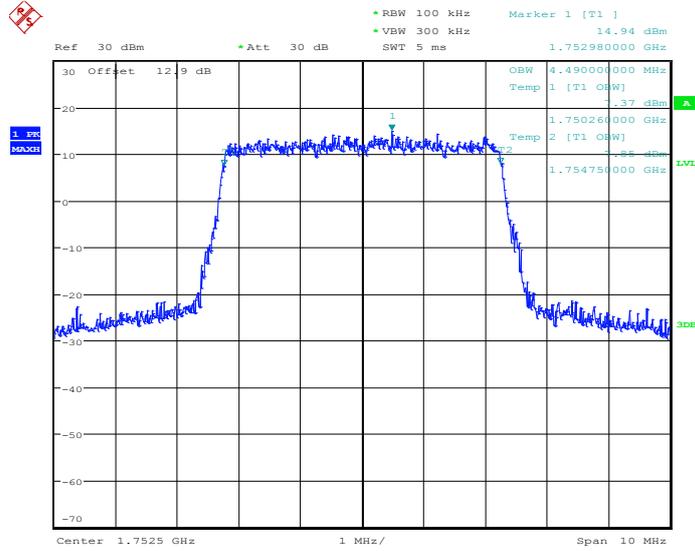
26dB Bandwidth Plot on Channel 20175



Date: 25.JUN.2014 21:36:55

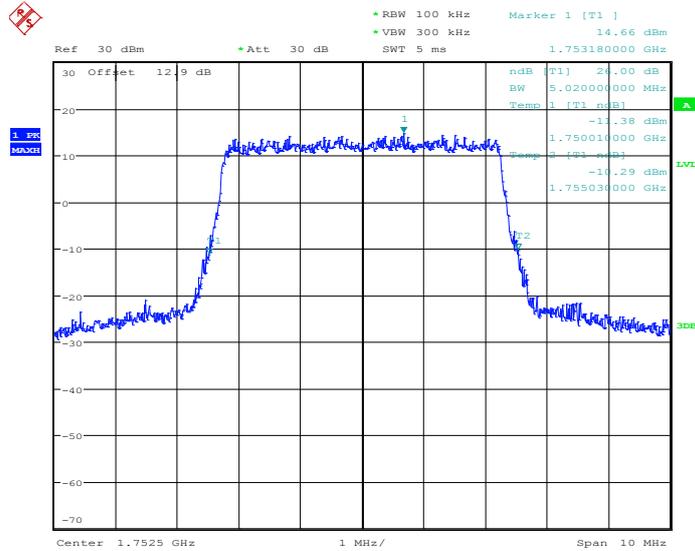


99% Occupied Bandwidth Plot on Channel 20375



Date: 25.JUN.2014 21:39:19

26dB Bandwidth Plot on Channel 20375

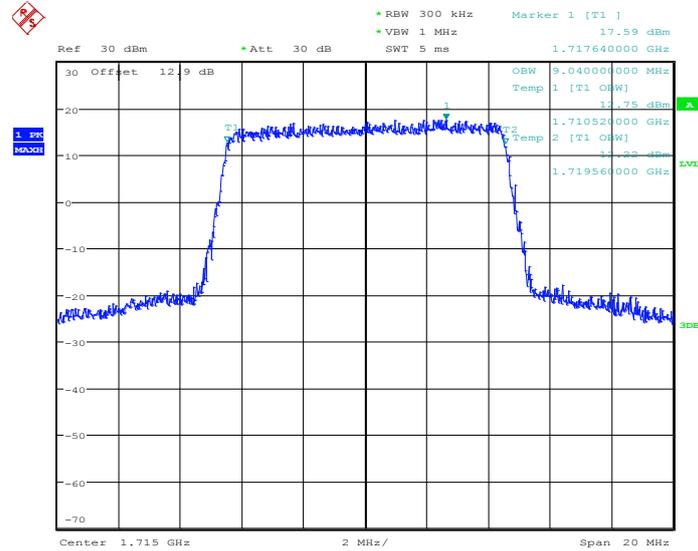


Date: 25.JUN.2014 21:39:51



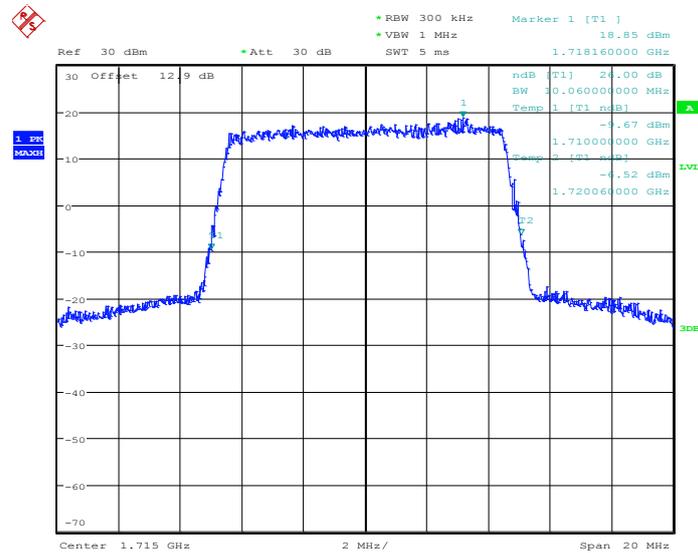
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	10MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 20000



Date: 25.JUN.2014 21:52:57

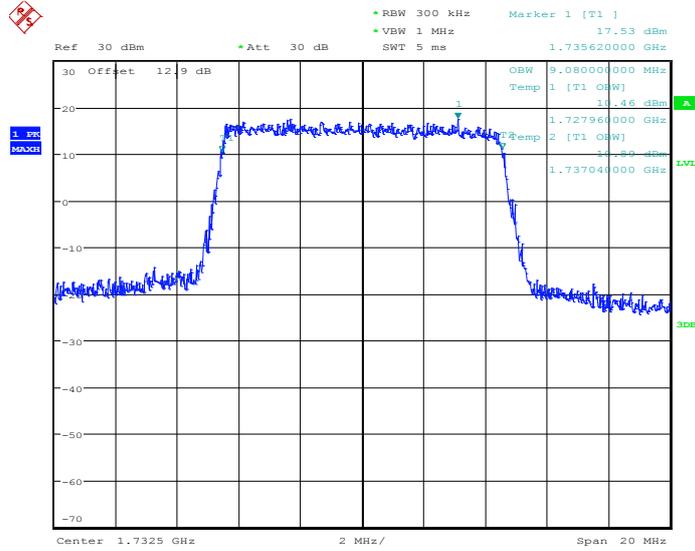
26dB Bandwidth Plot on Channel 20000



Date: 25.JUN.2014 21:53:26

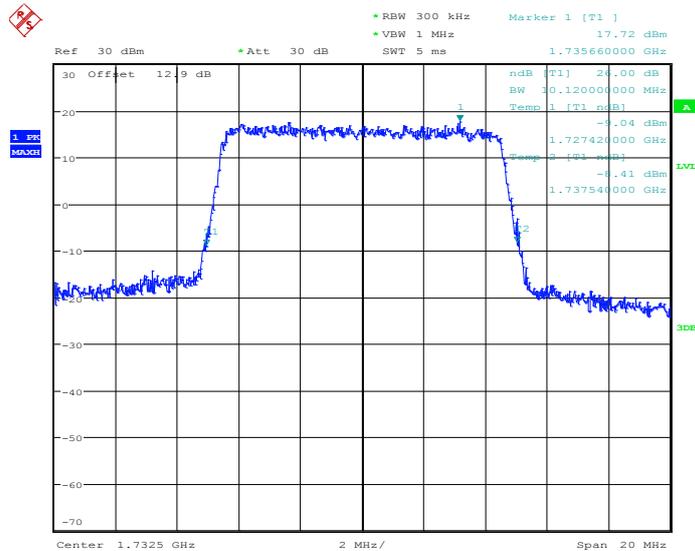


99% Occupied Bandwidth Plot on Channel 20175



Date: 25.JUN.2014 21:58:53

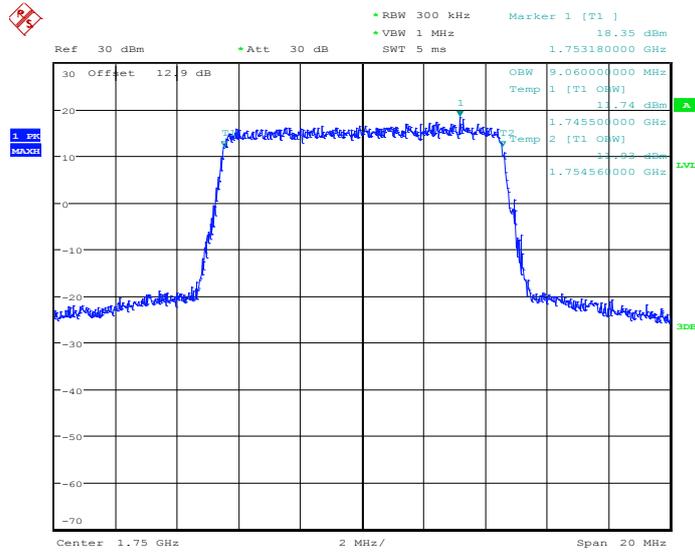
26dB Bandwidth Plot on Channel 20175



Date: 25.JUN.2014 21:59:22

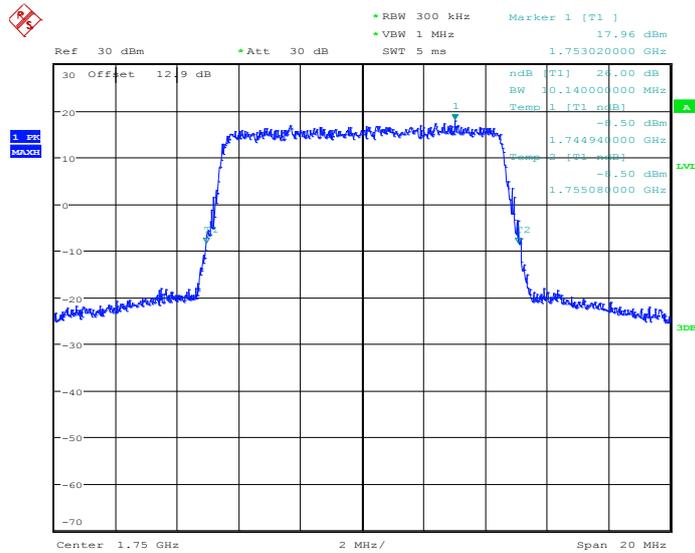


### 99% Occupied Bandwidth Plot on Channel 20350



Date: 25.JUN.2014 22:01:49

### 26dB Bandwidth Plot on Channel 20350

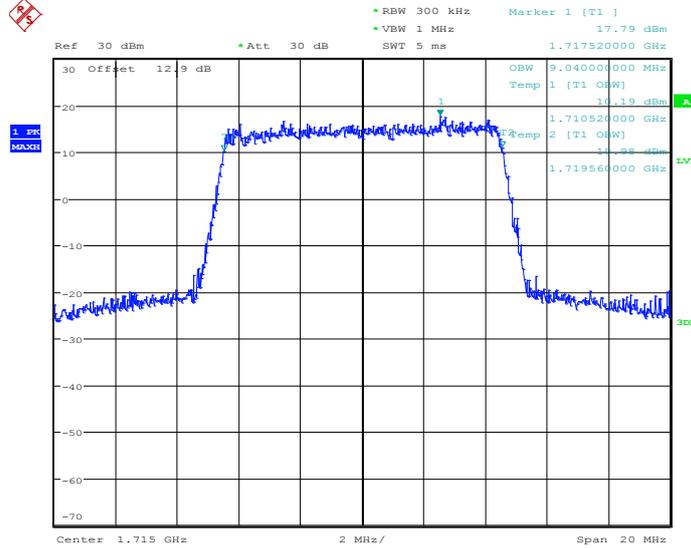


Date: 25.JUN.2014 22:02:18



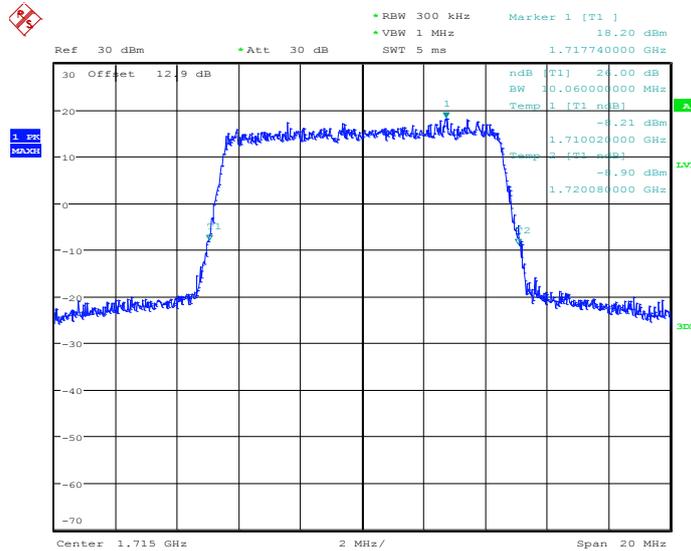
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	10MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 20000



Date: 25.JUN.2014 21:53:11

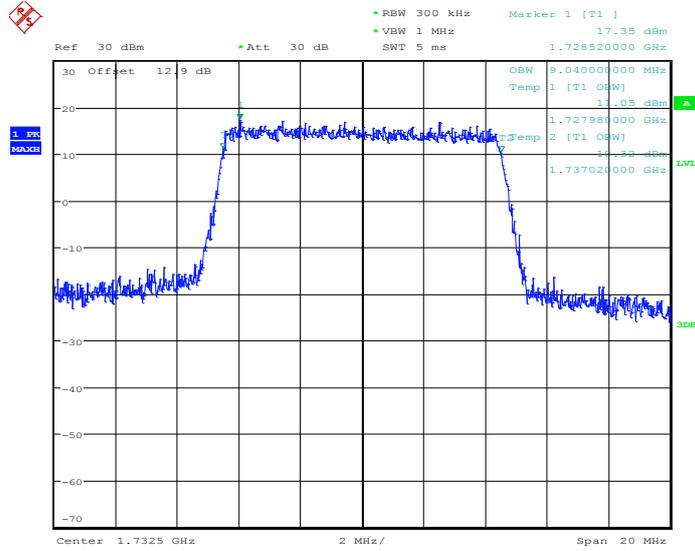
26dB Bandwidth Plot on Channel 20000



Date: 25.JUN.2014 21:53:42

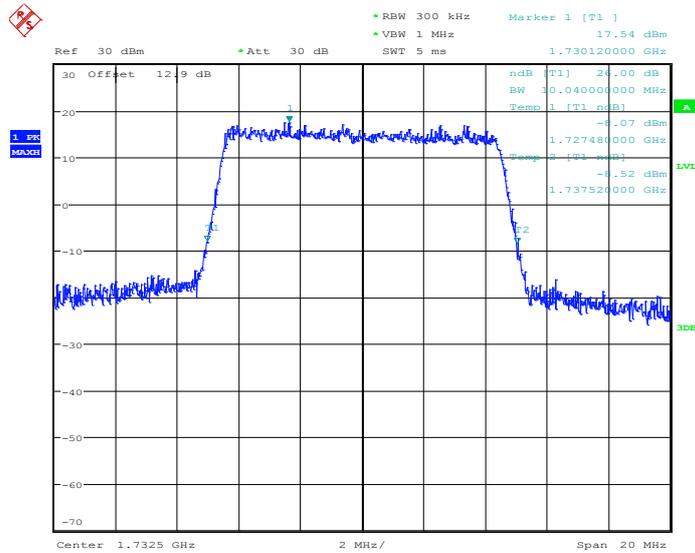


### 99% Occupied Bandwidth Plot on Channel 20175



Date: 25.JUN.2014 21:59:07

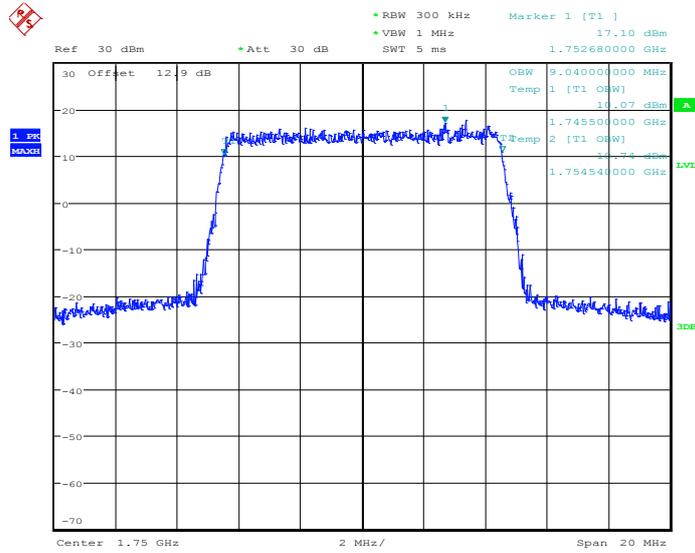
### 26dB Bandwidth Plot on Channel 20175



Date: 25.JUN.2014 21:59:38

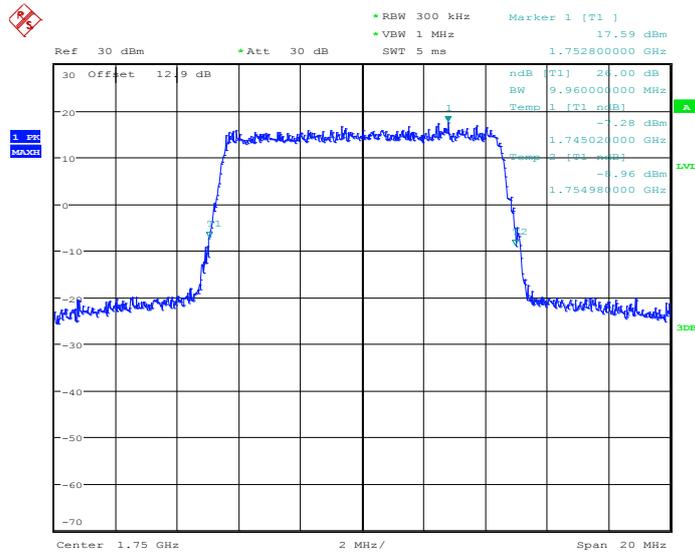


### 99% Occupied Bandwidth Plot on Channel 20350



Date: 25.JUN.2014 22:02:02

### 26dB Bandwidth Plot on Channel 20350

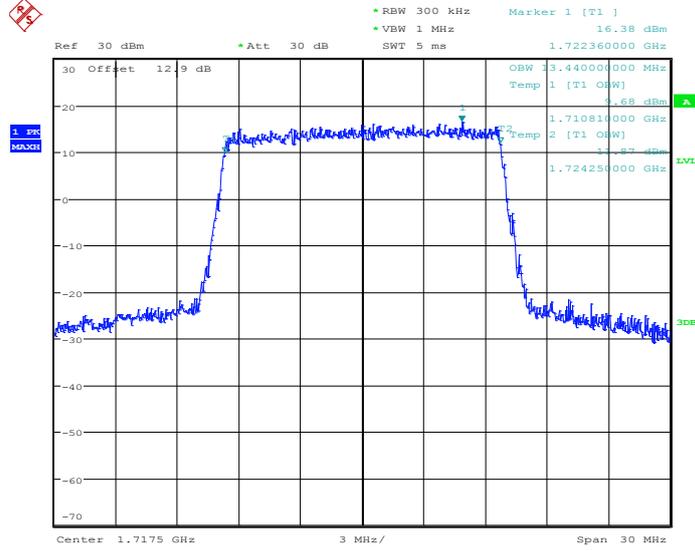


Date: 25.JUN.2014 22:02:34



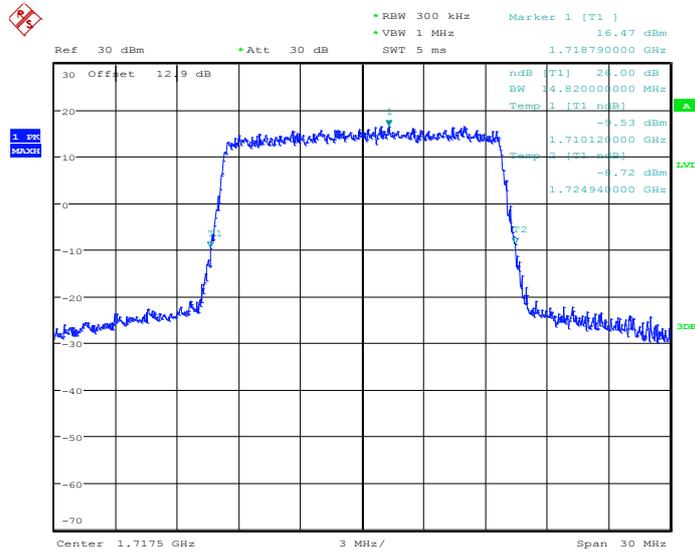
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	15MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 2025



Date: 25.JUN.2014 22:07:49

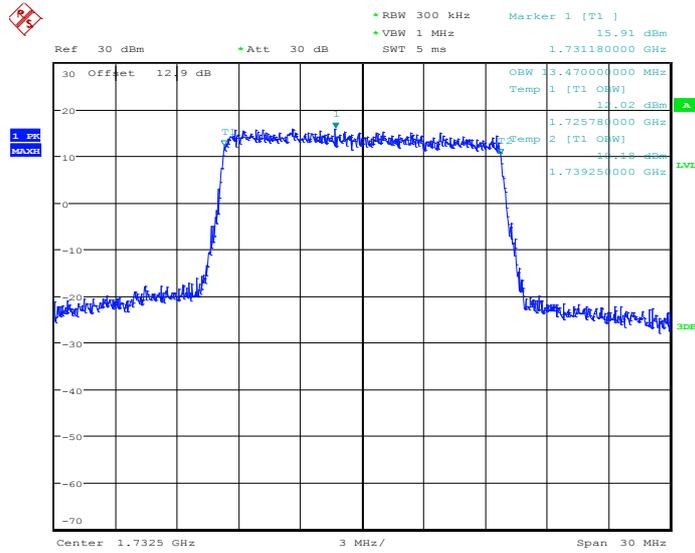
26dB Bandwidth Plot on Channel 2025



Date: 25.JUN.2014 22:08:19

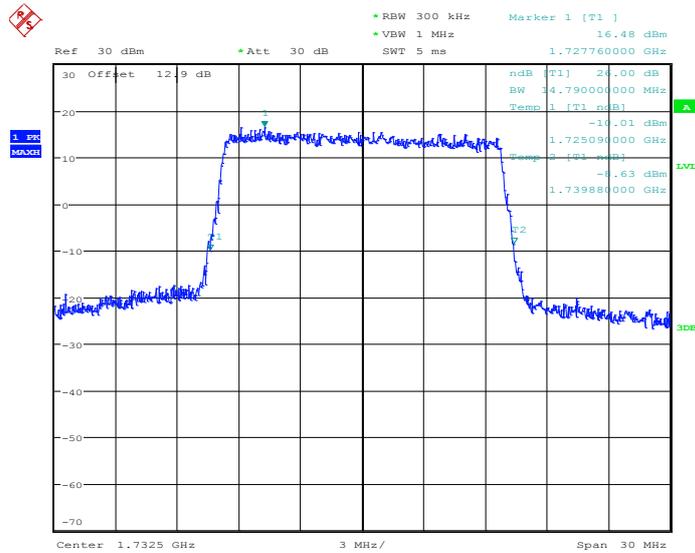


99% Occupied Bandwidth Plot on Channel 20175



Date: 25.JUN.2014 22:13:46

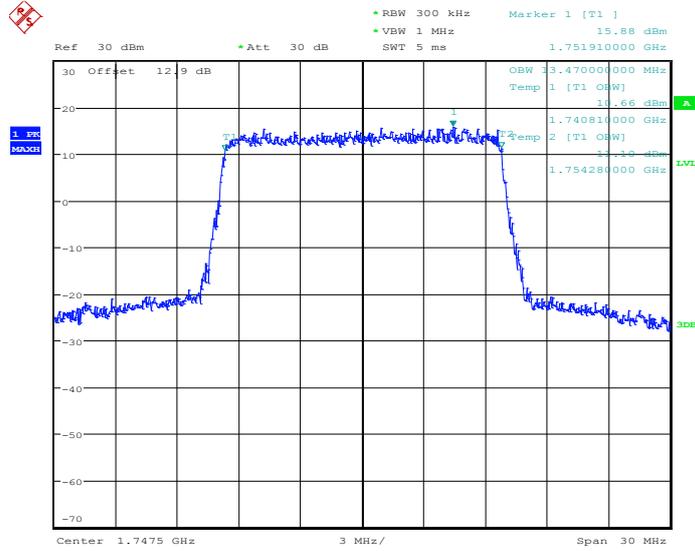
26dB Bandwidth Plot on Channel 20175



Date: 25.JUN.2014 22:14:15

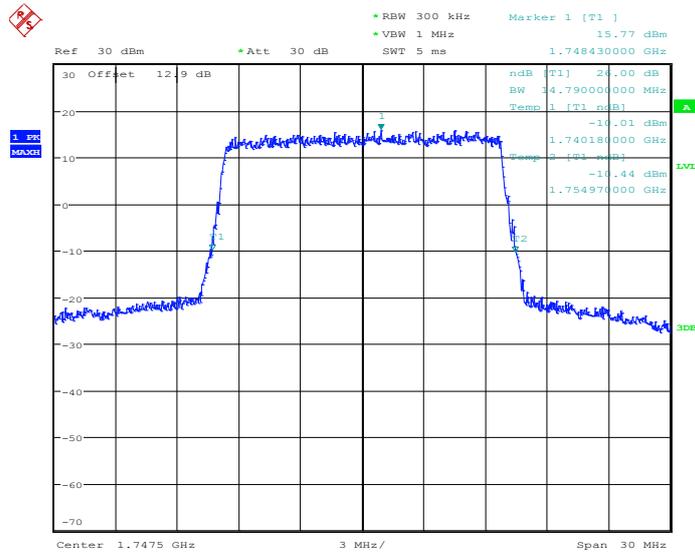


99% Occupied Bandwidth Plot on Channel 20325



Date: 25.JUN.2014 22:16:42

26dB Bandwidth Plot on Channel 20325

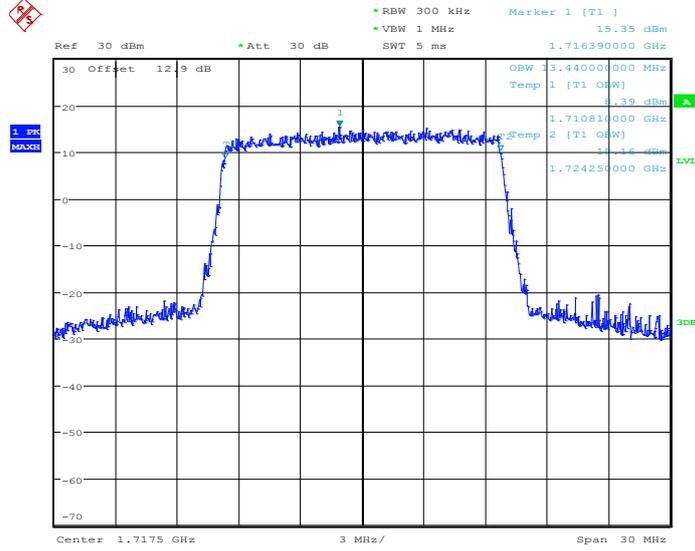


Date: 25.JUN.2014 22:17:12



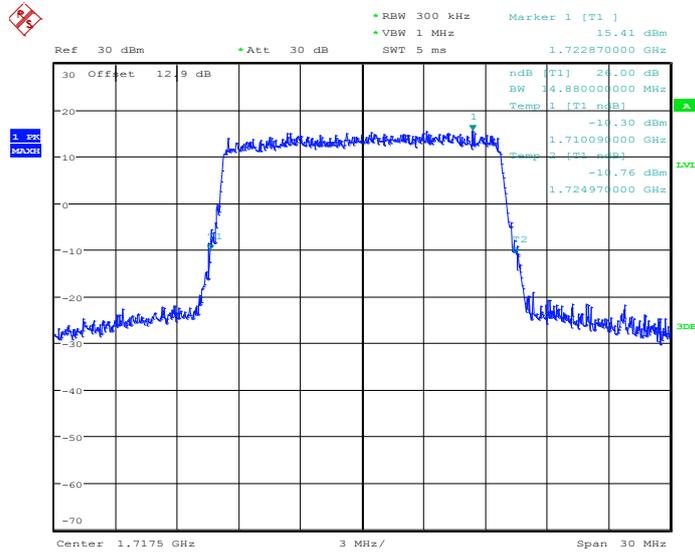
<b>Band :</b>	LTE Band 4	<b>BW / Mod. :</b>	15MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 2025



Date: 25.JUN.2014 22:08:03

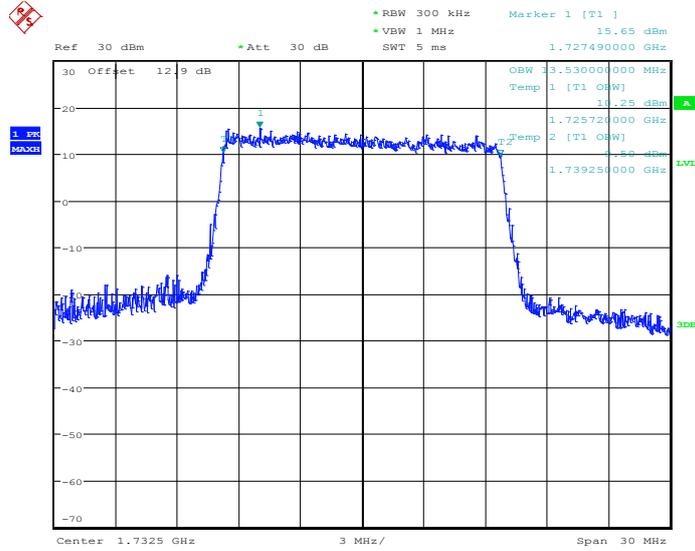
26dB Bandwidth Plot on Channel 2025



Date: 25.JUN.2014 22:08:35

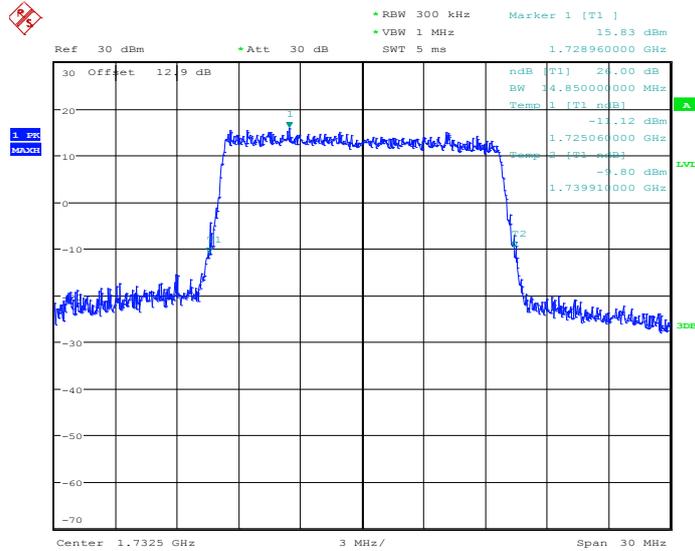


99% Occupied Bandwidth Plot on Channel 20175



Date: 25.JUN.2014 22:13:59

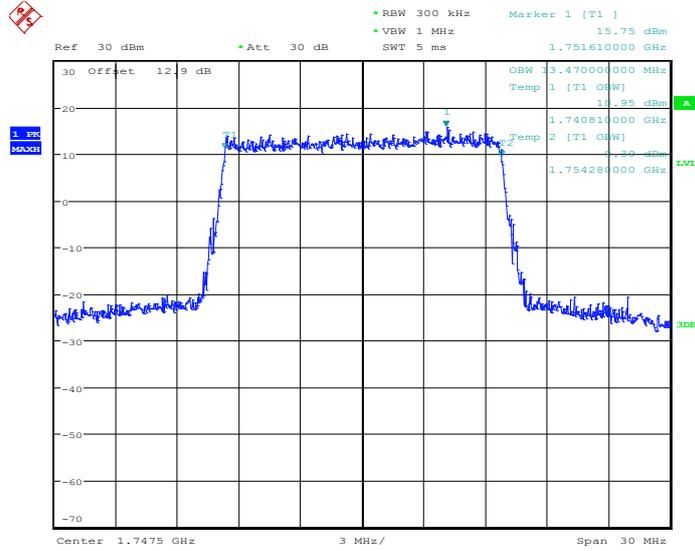
26dB Bandwidth Plot on Channel 20175



Date: 25.JUN.2014 22:14:31

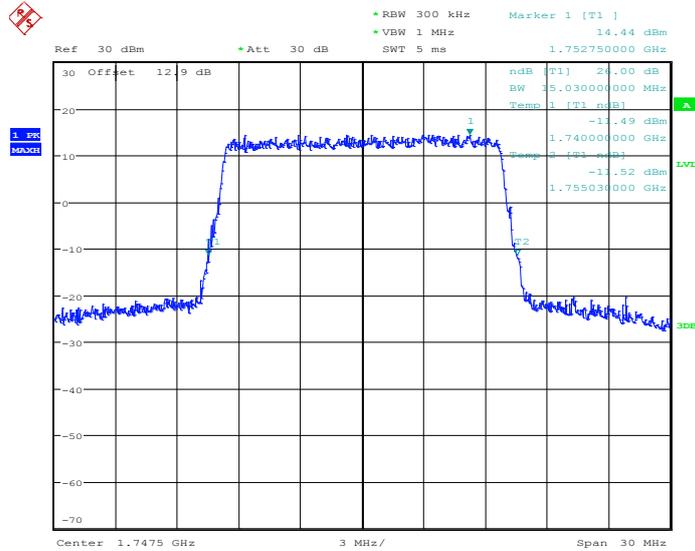


99% Occupied Bandwidth Plot on Channel 20325



Date: 25.JUN.2014 22:16:56

26dB Bandwidth Plot on Channel 20325

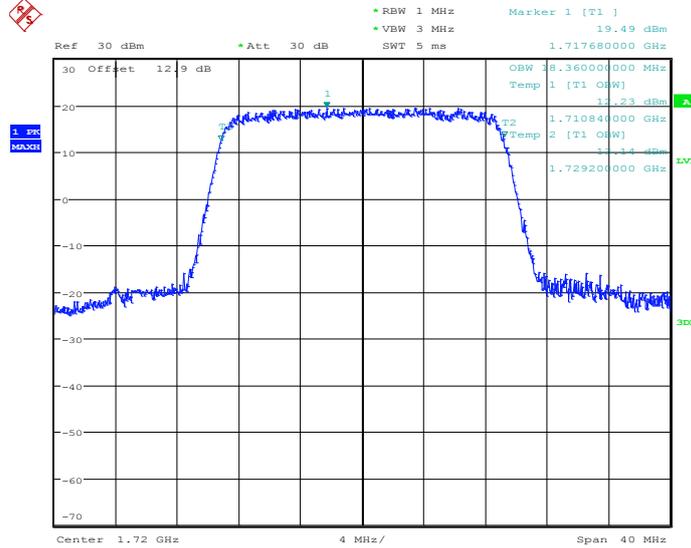


Date: 25.JUN.2014 22:17:27



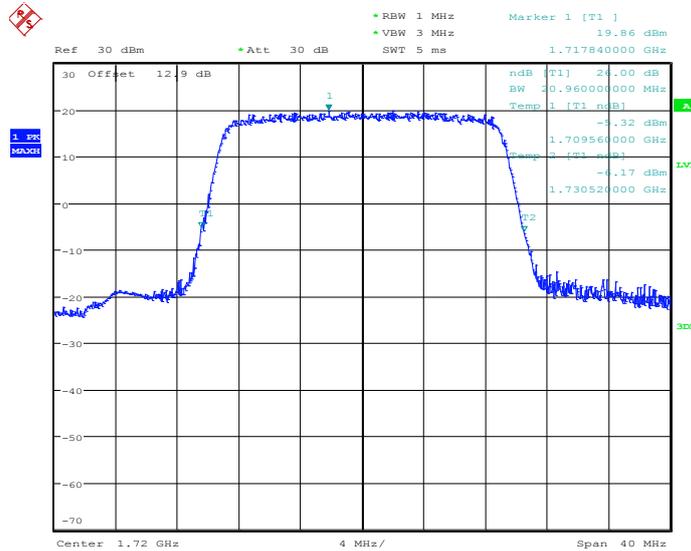
Band :	LTE Band 4	BW / Mod. :	20MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 20050



Date: 25.JUN.2014 22:22:43

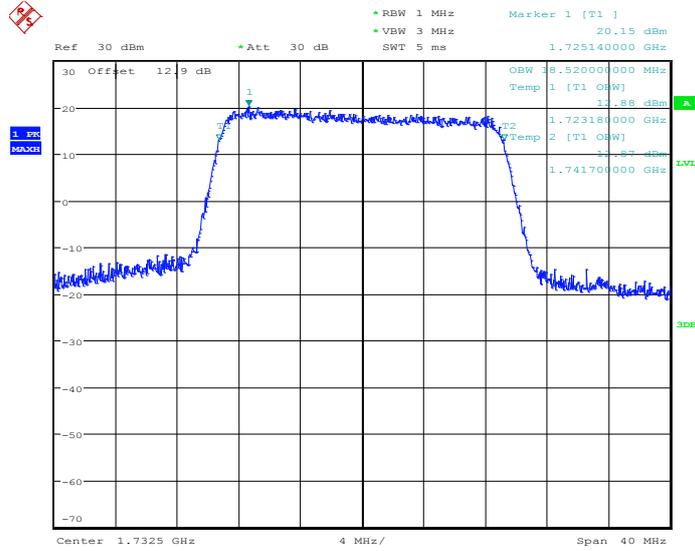
26dB Bandwidth Plot on Channel 20050



Date: 25.JUN.2014 22:23:13

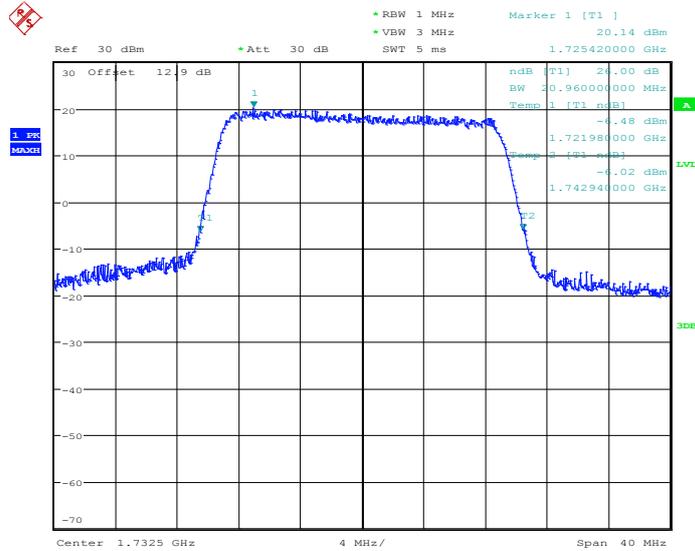


99% Occupied Bandwidth Plot on Channel 20175



Date: 25.JUN.2014 22:28:40

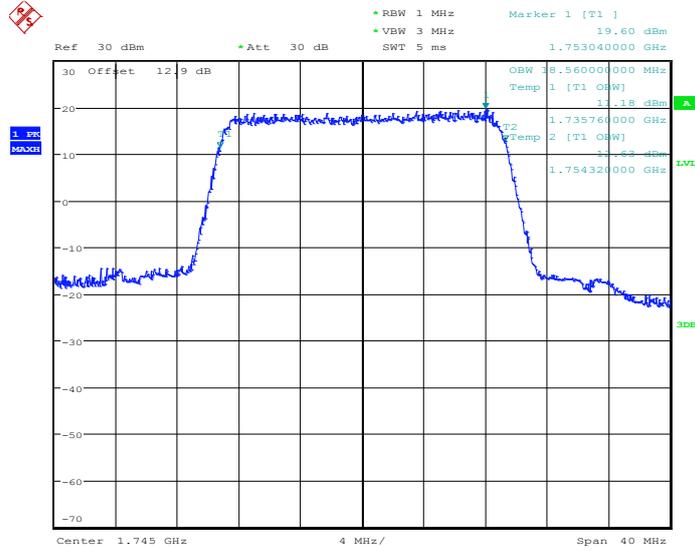
26dB Bandwidth Plot on Channel 20175



Date: 25.JUN.2014 22:29:10

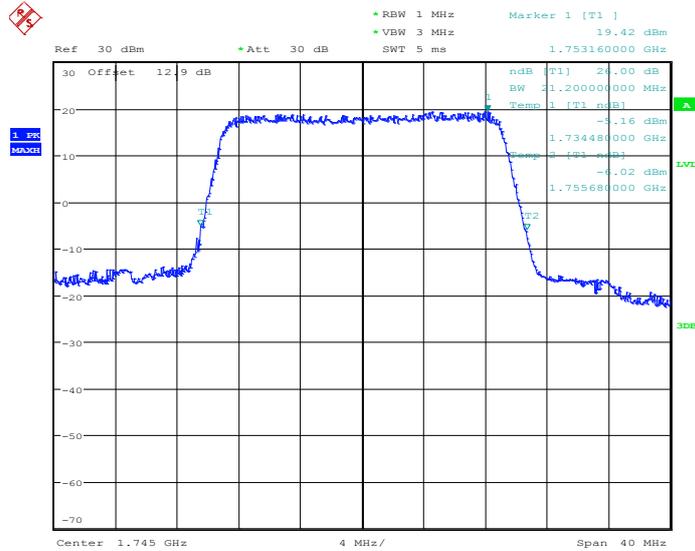


99% Occupied Bandwidth Plot on Channel 20300



Date: 25.JUN.2014 22:31:36

26dB Bandwidth Plot on Channel 20300

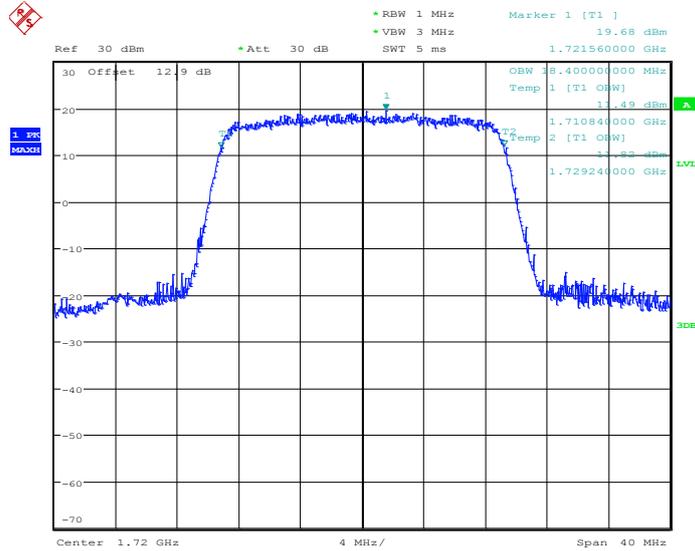


Date: 25.JUN.2014 22:32:06



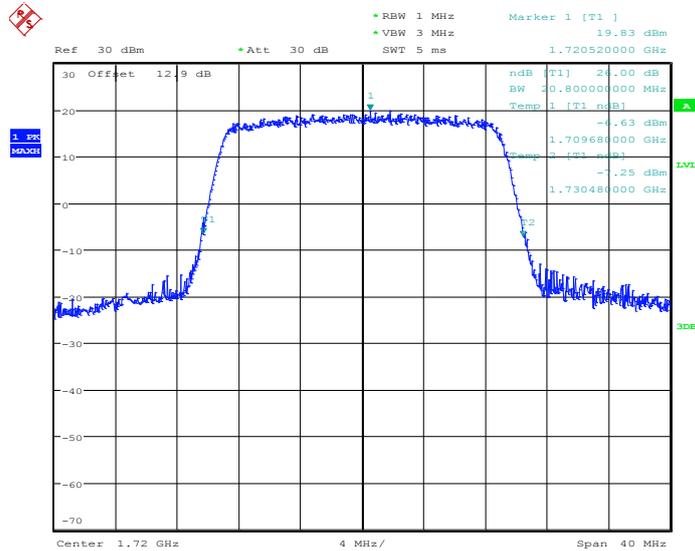
Band :	LTE Band 4	BW / Mod. :	20MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 20050



Date: 25.JUN.2014 22:22:57

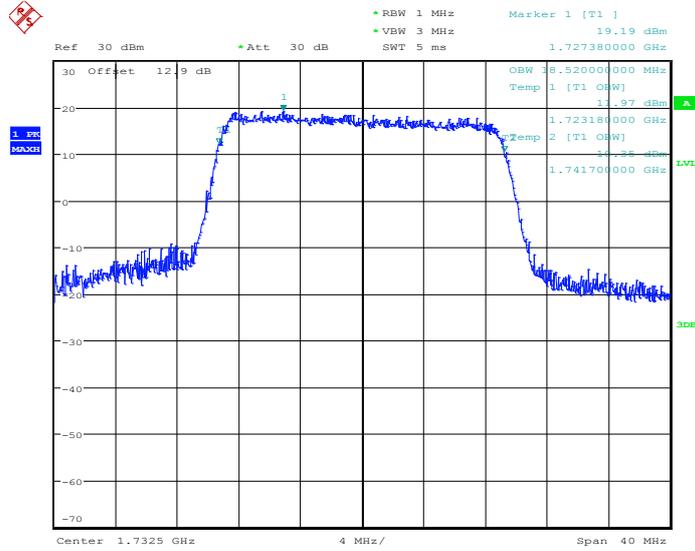
26dB Bandwidth Plot on Channel 20050



Date: 25.JUN.2014 22:23:29

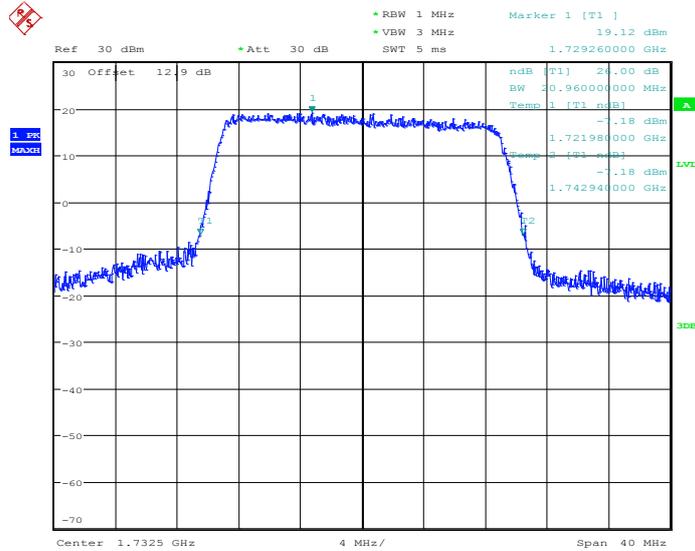


99% Occupied Bandwidth Plot on Channel 20175



Date: 25.JUN.2014 22:28:54

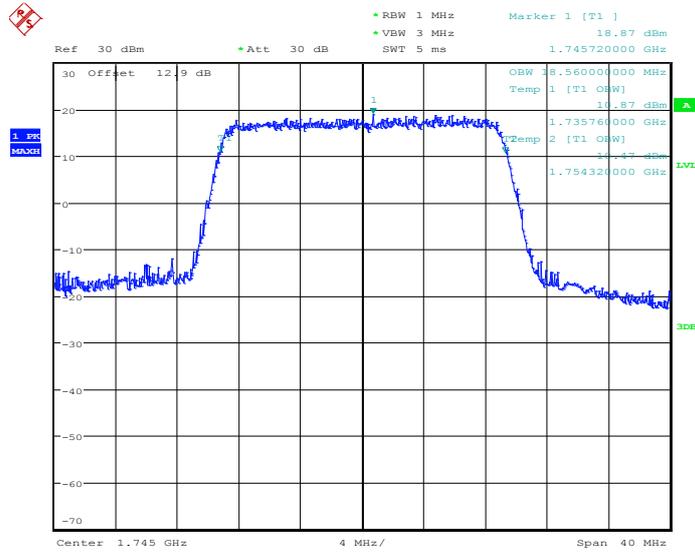
26dB Bandwidth Plot on Channel 20175



Date: 25.JUN.2014 22:29:26

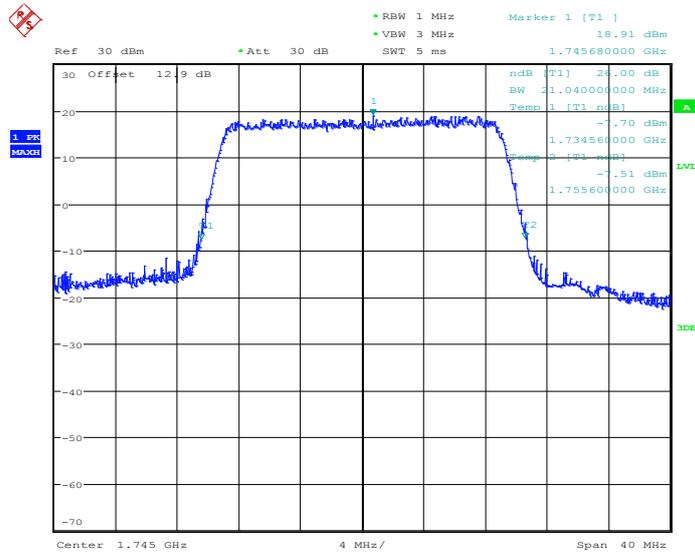


### 99% Occupied Bandwidth Plot on Channel 20300



Date: 25.JUN.2014 22:31:50

### 26dB Bandwidth Plot on Channel 20300



Date: 25.JUN.2014 22:32:21