

FCC/IC RF Test Report

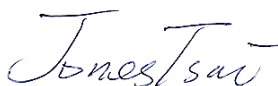
APPLICANT : Sony Mobile Communications Inc.
EQUIPMENT : Smart phone
BRAND NAME : SONY
TYPE NAME : PM-0385-BV
FCC ID : PY7PM-0385
STANDARD : 47 CFR Part 2, 27
IC RSS-130 issue 1
IC RSS-139 issue 2
IC RSS-199 issue 1
CLASSIFICATION : PCS Licensed Transmitter Held to Ear (PCE)

The product was received on May 02, 2014 and testing was completed on Jun. 20, 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



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Report Template No.: BU5-CGLTE Version 1.1



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG450249B	Rev. 01	Initial issue of report	Jul. 14, 2014
FG450249B	Rev. 02	Update EUT Information List for SW version change as 18.4.C.1.10	Aug. 01, 2014

SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	§2.1046	RSS-Gen(4.8) RSS-130(4.4) RSS-139 (6.4) RSS-199 (4.4)	Conducted Output Power	Reporting Only	PASS	-
3.2	§27.50(d)(5)	RSS-130(4.4) RSS-139 (6.4)	Peak-to-Average Ratio	<13 dB	PASS	-
3.3	§27.50(c)(10)	N/A	Effective Radiated Power (Band 17)	ERP < 3 Watt	PASS	-
	N/A	RSS-130(4.4)	Equivalent Isotropic Radiated Power (Band 17)	EIRP < 5 Watt		
	§27.50(h)(2)	SRSP-510(5.1.2) RSS-199 (4.4)	Equivalent Isotropic Radiated Power (Band 7)	EIRP < 2Watt		
	§27.50(d)(4)	RSS-139 (6.4) SRSP-513(5.1.2)	Equivalent Isotropic Radiated Power (Band 4)	EIRP < 1Watt		
3.4	§2.1049 §27.53(g)(3) §27.53(l)(6)	RSS-GEN(4.6.1) RSS-139 (3.1) RSS-199 (4.2)	Occupied Bandwidth	Reporting Only	PASS	-
3.5	§2.1051 §27.53(f) §27.53(g) §27.53(l)(4)	RSS-GEN(4.9) RSS-130(4.6) RSS-139 (6.5) RSS-199 (4.5)	Conducted Band Edge Measurement (Band 4) (Band 17) (Band 7)	< 43+10log10(P[Watt])	PASS	-



Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.6	§2.1051 §27.53(f) §27.53(g)	RSS-GEN(4.9) RSS-130(4.6) RSS-139 (6.5)	Conducted Spurious Emission (Band 4) (Band 17)	$< 43+10\log_{10}(P[\text{Watts}])$	PASS	-
	§2.1051 §27.53(l)(4)	RSS-GEN(4.9) RSS-199 (4.5)	Conducted Spurious Emission (Band 7)	$< 55+10\log_{10}(P[\text{Watts}])$	PASS	-
3.7	§2.1053 §27.53(f) §27.53(g)	RSS-GEN(4.9) RSS-130(4.6) RSS-139 (6.5)	Radiated Spurious Emission (Band 4) (Band 17)	$< 43+10\log_{10}(P[\text{Watts}])$	PASS	Under limit 14.94 dB at 10278.000 MHz
	§2.1053 §27.53(l)(4)	RSS-GEN(4.9) RSS-199 (4.5)	Radiated Spurious Emission (Band 7)	$< 55+10\log_{10}(P[\text{Watts}])$	PASS	
3.8	§2.1055 §27.54	RSS-GEN(4.7) RSS-130(4.3) RSS-139 (6.3) RSS-199 (4.3)	Frequency Stability Temperature & Voltage	$< 2.5 \text{ ppm}$	PASS	-



1 General Description

1.1 Applicant

Sony Mobile Communications Inc.
Nya Vattentorget, 22188 Lund, Sweden

1.2 Manufacturer

Arima Communication Corp.
6F, No. 866, Jhongjheng Rd., Jhonghe Dist., New Taipei City 23586, Taiwan

1.3 Product Feature of Equipment Under Test

The Equipment Under Test (hereafter called: EUT) is Smart phone supporting, GSM / WCDMA / LTE, Wi-Fi 2.4GHz 802.11b/g/n, Bluetooth with FM Receiver, ANT+, GPS, and NFC features, and below is details of information.

Product Feature	
Equipment	Smart phone
Brand Name	SONY
FCC ID	PY7PM-0385
GSM Operating Band(s)	GSM 850/900/1800/1900MHz
GPRS / EGPRS Multi Slot Class	GPRS Class 33, EGPRS Class 33
WCDMA Operating Band(s)	FDD Band I / II / IV / V
WCDMA Rel. Version	Rel. 9
LTE Operating Band(s)	FDD Band IV / VII / XVII
LTE Rel. Version	Rel. 8
Wi-Fi Specification	802.11b/g/n (HT20)
Bluetooth Version	v3.0+EDR / v4.0-LE
NFC Specification	ISO14443A / ISO14443B / Felica / ISO15693
ANT+	ANT+
Power Supply	Battery / AC Adapter / Car Charger

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	
Tx Frequency	LTE Band 4 : 1710.75 MHz ~ 1754.25 MHz LTE Band 7 : 2502.50 MHz ~ 2567.50 MHz LTE Band 17 : 706.50 MHz ~ 713.50 MHz
Rx Frequency	LTE Band 4 : 2110.75 MHz ~ 2154.25 MHz LTE Band 7 : 2622.50 MHz ~ 2687.50 MHz LTE Band 17 : 736.50 MHz ~ 743.50 MHz
Bandwidth	LTE Band 4 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 7 : 5MHz / 10MHz / 15MHz / 20MHz LTE Band 17 : 5MHz / 10MHz
Antenna Type	I-FA Antenna
Type of Modulation	QPSK / 16QAM

EUT Information List				
IMEI	HW Version	SW Version	S/N	Performed Test Item
IMEI: 004402452636057	A	18.4.C.1.10	ZL4418D28521	RF Conducted Measurement
IMEI: 004402452638442			WUJ01AYKFA	Radiated Spurious Emission ERP Test

Accessory List	
AC Adapter	Model No. : EP800
	Type No. : CAA-0002016-US B
	S/N : 3113W45408465
Battery	Model No. : LIS1551ERPC
Earphone	Model No. : MH410c
	Type No. : AG-1100
	S/N : 13511E5B0076390
USB Cable	Model No. : EC 450
	Type No. : AI-0700
	S/N : 134912DC0004380

Note:

1. Above EUT list and accessory list used are electrically identical per declared by manufacturer.
2. Above the accessories list are used to exercise the EUT during test.
3. For other wireless features of this EUT, test report will be issued separately.

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 27	LTE Band 4	QPSK	1.4 MHz	1M10G7D	-	0.27 W
Part 27	LTE Band 4	16QAM	1.4 MHz	1M10D7W	-	0.20 W
Part 27	LTE Band 4	QPSK	3 MHz	2M73G7D	-	0.26 W
Part 27	LTE Band 4	16QAM	3 MHz	2M73D7W	-	0.21 W
Part 27	LTE Band 4	QPSK	5MHz	4M49G7D	-	0.26 W
Part 27	LTE Band 4	16QAM	5MHz	4M50D7W	-	0.21 W
Part 27	LTE Band 4	QPSK	10MHz	9M08G7D	0.0129 ppm	0.27 W
Part 27	LTE Band 4	16QAM	10MHz	9M04D7W	-	0.21 W
Part 27	LTE Band 4	QPSK	15MHz	13M5G7D	-	0.28 W
Part 27	LTE Band 4	16QAM	15MHz	13M4D7W	-	0.21 W
Part 27	LTE Band 4	QPSK	20MHz	18M4G7D	-	0.26 W
Part 27	LTE Band 4	16QAM	20MHz	18M4D7W	-	0.20 W
Part 27	LTE Band 17	QPSK	5MHz	4M51G7D	-	0.05 W
Part 27	LTE Band 17	16QAM	5MHz	4M52D7W	-	0.04 W
Part 27	LTE Band 17	QPSK	10MHz	9M12G7D	0.0066 ppm	0.05 W
Part 27	LTE Band 17	16QAM	10MHz	9M08D7W	-	0.04 W
Part 27	LTE Band 7	QPSK	5MHz	4M51G7D	-	0.24 W
Part 27	LTE Band 7	16QAM	5MHz	4M51D7W	-	0.20 W
Part 27	LTE Band 7	QPSK	10MHz	9M08G7D	0.0100 ppm	0.25 W
Part 27	LTE Band 7	16QAM	10MHz	9M04D7W	-	0.20 W
Part 27	LTE Band 7	QPSK	15MHz	13M5G7D	-	0.25 W
Part 27	LTE Band 7	16QAM	15MHz	13M5D7W	-	0.20 W
Part 27	LTE Band 7	QPSK	20MHz	18M4G7D	-	0.24 W
Part 27	LTE Band 7	16QAM	20MHz	18M4D7W	-	0.19 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.

Test Site	SPORTON INTERNATIONAL INC.		
Test Site Location	No. 52, Hwa Ya 1 st 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		
Test Site No.	Sporton Site No.		IC Registration No.
	TH02-HY	03CH07-HY	4086B-1

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, 27
- ♦ ANSI / TIA / EIA-603-C-2004
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v02r01
- ♦ IC RSS-130 Issue1
- ♦ IC RSS-139 Issue 2
- ♦ IC RSS-199 Issue 1
- ♦ IC RSS-Gen Issue 3
- ♦ NOTICE 2012-DRS0126

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.
3. Per the section 2.2.3 of Notice of 2012-DRS0126, " Receivers Excluded from Industry Canada Requirements", only radiocommunication receivers operating in stand-alone mode within the band 30-960 MHz and scanner receivers are subject to Industry Canada requirements.



2 Test Configuration of Equipment Under Test

2.1 Test Mode

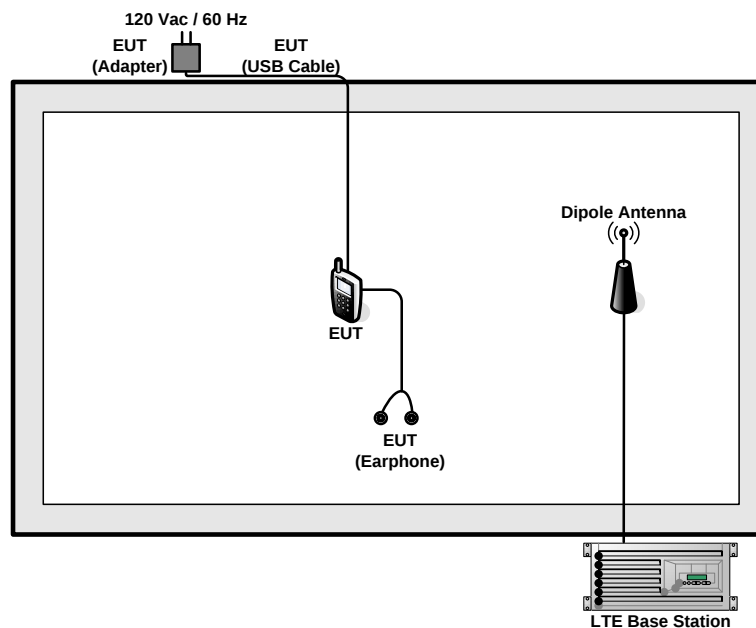
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v02r01 with maximum output power.

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	4	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	7	-	-	v	v	v	v	v	v	v	v	v	v	v	v
	17	-	-	v	v	-	-	v	v	v	v	v	v	v	v
Peak-to-Average Ratio	4						v		v	v		v	v	v	v
	7	-	-				v		v	v		v	v	v	v
	17	-	-		v	-	-		v	v		v	v	v	v
26dB and 99% Bandwidth	4	v	v	v	v	v	v	v	v			v	v	v	v
	7	-	-	v	v	v	v	v	v			v	v	v	v
	17	-	-	v	v	-	-	v	v			v	v	v	v
Conducted Band Edge	4	v	v	v	v	v	v	v	v	v		v	v		v
	7	-	-	v	v	v	v	v	v	v		v	v		v
	17	-	-	v	v	-	-	v	v	v		v	v		v
Conducted Spurious Emission	4	v	v	v	v	v	v	v	v	v			v	v	v
	7	-	-	v	v	v	v	v	v	v			v	v	v
	17	-	-	v	v	-	-	v	v	v			v	v	v
Frequency Stability	4				v			v				v		v	
	7	-	-		v			v				v		v	
	17	-	-		v	-	-	v				v		v	
Frequency Stability for RSS-130	17	-	-	v		-	-	v				v	v		v
E.R.P./ E.I.R.P.	4	v	v	v	v	v	v	v	v	v			v	v	v
	7	-	-	v	v	v	v	v	v	v			v	v	v
	17	-	-	v	v	-	-	v	v	v			v	v	v

[illegible]

2.2 Connection Diagram of Test System



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

2.4 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 :

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 4.2 + 10 = 14.2 \text{ (dB)}\end{aligned}$$

3 Test Result

3.1 Conducted Output Power Measurement

3.1.1 Description of the Conducted Output Power Measurement

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

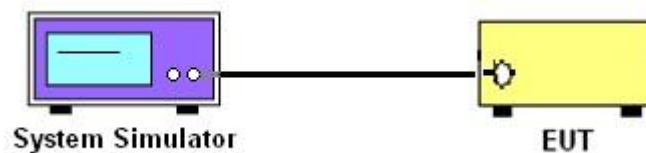
3.1.2 Measuring Instruments

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 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.
Channel				20050	20175	20300
Frequency (MHz)				1720	1732.5	1745
20	QPSK	1	0	22.87	22.73	22.70
20	QPSK	1	49	22.77	22.66	22.58
20	QPSK	1	99	22.64	22.60	22.41
20	QPSK	50	0	21.84	21.79	21.71
20	QPSK	50	24	21.77	21.69	21.71
20	QPSK	50	49	21.68	21.70	21.53
20	QPSK	100	0	21.89	21.71	21.66
20	16QAM	1	0	21.84	21.76	21.57
20	16QAM	1	49	21.75	21.61	21.63
20	16QAM	1	99	21.61	21.52	21.32
20	16QAM	50	0	20.87	20.80	20.76
20	16QAM	50	24	20.79	20.77	20.74
20	16QAM	50	49	20.76	20.67	20.62
20	16QAM	100	0	20.89	20.75	20.74
Channel				20025	20175	20325
Frequency (MHz)				1717.5	1732.5	1747.5
15	QPSK	1	0	22.84	22.71	22.69
15	QPSK	1	37	22.75	22.66	22.54
15	QPSK	1	74	22.64	22.60	22.45
15	QPSK	36	0	21.91	21.72	21.72
15	QPSK	36	18	21.82	21.68	21.64
15	QPSK	36	37	21.67	21.65	21.58
15	QPSK	75	0	21.85	21.69	21.63
15	16QAM	1	0	21.84	21.69	21.64
15	16QAM	1	37	21.72	21.62	21.48
15	16QAM	1	74	21.61	21.52	21.35
15	16QAM	36	0	20.93	20.78	20.74
15	16QAM	36	18	20.81	20.70	20.67
15	16QAM	36	37	20.75	20.66	20.56
15	16QAM	75	0	20.87	20.76	20.65



BW [MHz]	Modulation	RB Size	RB Offset	Power (dBm) Low Ch. / Freq.	Power (dBm) Middle Ch. / Freq.	Power (dBm) High Ch. / Freq.
Channel				20000	20175	20350
Frequency (MHz)				1715	1732.5	1750
10	QPSK	1	0	22.85	22.71	22.66
10	QPSK	1	24	22.71	22.63	22.51
10	QPSK	1	49	22.75	22.53	22.45
10	QPSK	25	0	21.93	21.67	21.64
10	QPSK	25	12	21.77	21.66	21.55
10	QPSK	25	24	21.77	21.64	21.56
10	QPSK	50	0	21.84	21.74	21.61
10	16QAM	1	0	21.84	21.68	21.64
10	16QAM	1	24	21.72	21.62	21.49
10	16QAM	1	49	21.72	21.48	21.38
10	16QAM	25	0	20.97	20.78	20.77
10	16QAM	25	12	20.84	20.74	20.61
10	16QAM	25	24	20.88	20.74	20.66
10	16QAM	50	0	20.88	20.74	20.62
Channel				19975	20175	20375
Frequency (MHz)				1712.5	1732.5	1752.5
5	QPSK	1	0	22.82	22.67	22.53
5	QPSK	1	12	22.81	22.64	22.51
5	QPSK	1	24	22.75	22.64	22.43
5	QPSK	12	0	21.89	21.69	21.59
5	QPSK	12	6	21.88	21.65	21.57
5	QPSK	12	11	21.92	21.69	21.54
5	QPSK	25	0	21.91	21.70	21.58
5	16QAM	1	0	21.81	21.62	21.49
5	16QAM	1	12	21.78	21.60	21.46
5	16QAM	1	24	21.71	21.53	21.35
5	16QAM	12	0	20.94	20.77	20.65
5	16QAM	12	6	20.93	20.75	20.67
5	16QAM	12	11	20.95	20.75	20.64
5	16QAM	25	0	20.93	20.76	20.61



BW [MHz]	Modulation	RB Size	RB Offset	Power (dBm) Low Ch. / Freq.	Power (dBm) Middle Ch. / Freq.	Power (dBm) High Ch. / Freq.
Channel				19965	20175	20385
Frequency (MHz)				1711.5	1732.5	1753.5
3	QPSK	1	0	22.84	22.65	22.56
3	QPSK	1	7	22.79	22.64	22.43
3	QPSK	1	14	22.74	22.64	22.50
3	QPSK	8	0	21.90	21.75	21.56
3	QPSK	8	4	21.93	21.66	21.45
3	QPSK	8	7	21.88	21.70	21.43
3	QPSK	15	0	21.94	21.69	21.52
3	16QAM	1	0	21.84	21.63	21.47
3	16QAM	1	7	21.82	21.62	21.36
3	16QAM	1	14	21.78	21.57	21.43
3	16QAM	8	0	20.91	20.80	20.63
3	16QAM	8	4	20.92	20.75	20.58
3	16QAM	8	7	20.95	20.78	20.56
3	16QAM	15	0	20.91	20.72	20.53
Channel				19957	20175	20393
Frequency (MHz)				1710.7	1732.5	1754.3
1.4	QPSK	1	0	22.83	22.71	22.52
1.4	QPSK	1	2	22.78	22.67	22.46
1.4	QPSK	1	5	22.82	22.70	22.51
1.4	QPSK	3	0	22.81	22.68	22.50
1.4	QPSK	3	1	22.82	22.66	22.51
1.4	QPSK	3	2	22.80	22.61	22.51
1.4	QPSK	6	0	21.90	21.70	21.48
1.4	16QAM	1	0	21.82	21.66	21.42
1.4	16QAM	1	2	21.76	21.64	21.43
1.4	16QAM	1	5	21.78	21.61	21.41
1.4	16QAM	3	0	21.77	21.63	21.45
1.4	16QAM	3	1	21.81	21.61	21.39
1.4	16QAM	3	2	21.79	21.60	21.40
1.4	16QAM	6	0	20.80	20.63	20.42



<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.
Channel				23780	23790	23800
Frequency (MHz)				709	710	711
10	QPSK	1	0	23.39	23.26	23.23
10	QPSK	1	24	23.25	23.22	23.19
10	QPSK	1	49	23.37	23.20	23.14
10	QPSK	25	0	22.32	22.30	22.28
10	QPSK	25	12	22.33	22.32	22.37
10	QPSK	25	24	22.35	22.39	22.38
10	QPSK	50	0	22.43	22.36	22.37
10	16QAM	1	0	22.31	22.23	22.14
10	16QAM	1	24	22.19	22.20	22.13
10	16QAM	1	49	22.29	22.19	22.12
10	16QAM	25	0	21.27	21.24	21.26
10	16QAM	25	12	21.28	21.27	21.31
10	16QAM	25	24	21.39	21.39	21.36
10	16QAM	50	0	21.34	21.30	21.30
Channel				23755	23790	23825
Frequency (MHz)				706.5	710	713.5
5	QPSK	1	0	23.31	23.33	23.26
5	QPSK	1	12	23.27	23.25	23.16
5	QPSK	1	24	23.28	23.24	23.23
5	QPSK	12	0	22.40	22.30	22.36
5	QPSK	12	6	22.34	22.33	22.34
5	QPSK	12	11	22.33	22.39	22.24
5	QPSK	25	0	22.28	22.36	22.34
5	16QAM	1	0	22.28	22.25	22.16
5	16QAM	1	12	22.24	22.21	22.15
5	16QAM	1	24	22.18	22.19	22.10
5	16QAM	12	0	21.34	21.28	21.33
5	16QAM	12	6	21.30	21.34	21.34
5	16QAM	12	11	21.33	21.35	21.21
5	16QAM	25	0	21.31	21.35	21.32



<LTE Band 7 Conducted Power>

BW [MHz]	Modulation	RB Size	RB Offset	Power (dBm) Low Ch. / Freq.	Power (dBm) Middle Ch. / Freq.	Power (dBm) High Ch. / Freq.
Channel				20850	21100	21350
Frequency (MHz)				2510	2535	2560
20	QPSK	1	0	22.62	22.49	22.41
20	QPSK	1	49	22.54	22.44	22.41
20	QPSK	1	99	22.51	22.48	22.27
20	QPSK	50	0	21.59	21.55	21.50
20	QPSK	50	24	21.68	21.53	21.49
20	QPSK	50	49	21.62	21.53	21.41
20	QPSK	100	0	21.68	21.57	21.37
20	16QAM	1	0	21.60	21.54	21.34
20	16QAM	1	49	21.53	21.44	21.40
20	16QAM	1	99	21.50	21.47	21.31
20	16QAM	50	0	20.56	20.58	20.53
20	16QAM	50	24	20.63	20.57	20.55
20	16QAM	50	49	20.62	20.61	20.45
20	16QAM	100	0	20.66	20.57	20.42
Channel				20825	21100	21375
Frequency (MHz)				2507.5	2535	2562.5
15	QPSK	1	0	22.53	22.51	22.41
15	QPSK	1	37	22.46	22.38	22.28
15	QPSK	1	74	22.51	22.49	22.26
15	QPSK	36	0	21.44	21.39	21.42
15	QPSK	36	18	21.52	21.44	21.35
15	QPSK	36	37	21.56	21.50	21.26
15	QPSK	75	0	21.62	21.56	21.36
15	16QAM	1	0	21.57	21.48	21.28
15	16QAM	1	37	21.39	21.44	21.22
15	16QAM	1	74	21.45	21.40	21.12
15	16QAM	36	0	20.44	20.54	20.43
15	16QAM	36	18	20.51	20.53	20.33
15	16QAM	36	37	20.59	20.51	20.26
15	16QAM	75	0	20.50	20.61	20.42



BW [MHz]	Modulation	RB Size	RB Offset	Power (dBm) Low Ch. / Freq.	Power (dBm) Middle Ch. / Freq.	Power (dBm) High Ch. / Freq.
Channel				20800	21100	21400
Frequency (MHz)				2505	2535	2565
10	QPSK	1	0	22.58	22.37	22.32
10	QPSK	1	24	22.38	22.38	22.19
10	QPSK	1	49	22.45	22.50	22.16
10	QPSK	25	0	21.43	21.43	21.31
10	QPSK	25	12	21.44	21.45	21.30
10	QPSK	25	24	21.51	21.42	21.23
10	QPSK	50	0	21.48	21.44	21.27
10	16QAM	1	0	21.46	21.46	21.28
10	16QAM	1	24	21.39	21.31	21.14
10	16QAM	1	49	21.38	21.34	21.11
10	16QAM	25	0	20.51	20.50	20.38
10	16QAM	25	12	20.53	20.54	20.31
10	16QAM	25	24	20.51	20.58	20.31
10	16QAM	50	0	20.51	20.51	20.32
Channel				20775	21100	21425
Frequency (MHz)				2502.5	2535	2567.5
5	QPSK	1	0	22.52	22.38	22.27
5	QPSK	1	12	22.35	22.37	22.11
5	QPSK	1	24	22.38	22.39	22.06
5	QPSK	12	0	21.53	21.43	21.22
5	QPSK	12	6	21.44	21.45	21.22
5	QPSK	12	11	21.47	21.44	21.21
5	QPSK	25	0	21.41	21.47	21.22
5	16QAM	1	0	21.45	21.31	21.17
5	16QAM	1	12	21.34	21.31	21.03
5	16QAM	1	24	21.37	21.38	21.07
5	16QAM	12	0	20.54	20.62	20.28
5	16QAM	12	6	20.47	20.52	20.25
5	16QAM	12	11	20.48	20.50	20.24
5	16QAM	25	0	20.50	20.58	20.23

Note: maximum average power for LTE.

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.

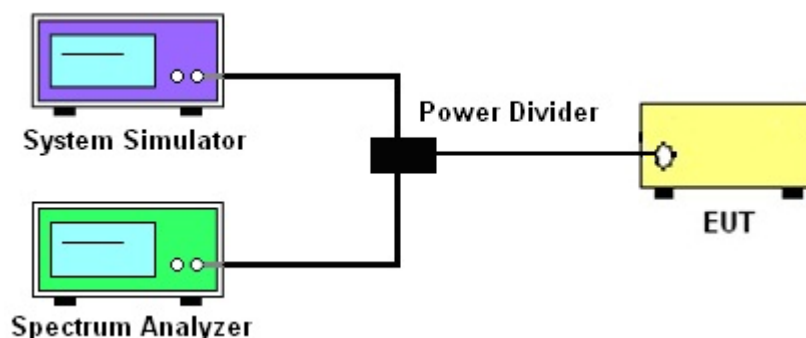
3.2.2 Measuring Instruments

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 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	5.51	6.06	6.22
20	16QAM	100	0	6.19	6.31	6.22

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	5.00	5.16	5.00
10	16QAM	50	0	5.77	5.77	5.77

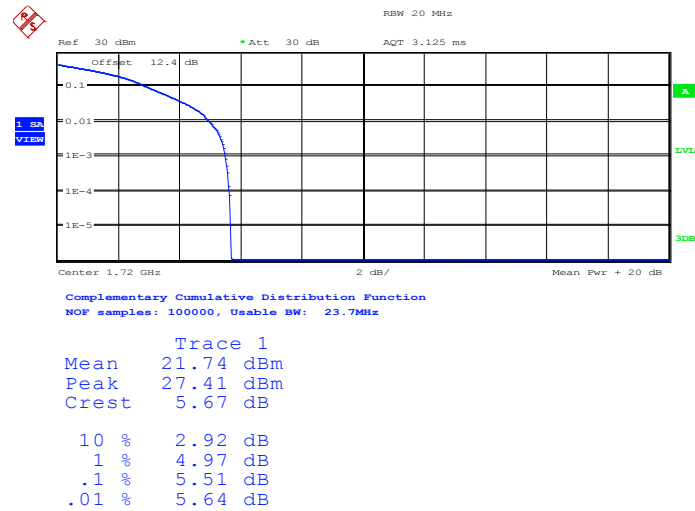
LTE Band 7						
BW [MHz]	Modulation	RB Size	RB Offset	Power (dBm) Low Ch. / Freq.	Power (dBm) Middle Ch. / Freq.	Power (dBm) High Ch. / Freq.
Channel				18700	18900	19100
Frequency (MHz)				1860	1880	1900
20	16QAM	1	0	5.77	5.96	5.90
20	16QAM	100	0	6.12	6.15	6.19



3.2.6 Peak to Average Power Ratio

Peak-to-Average Ratio on LTE Band 4

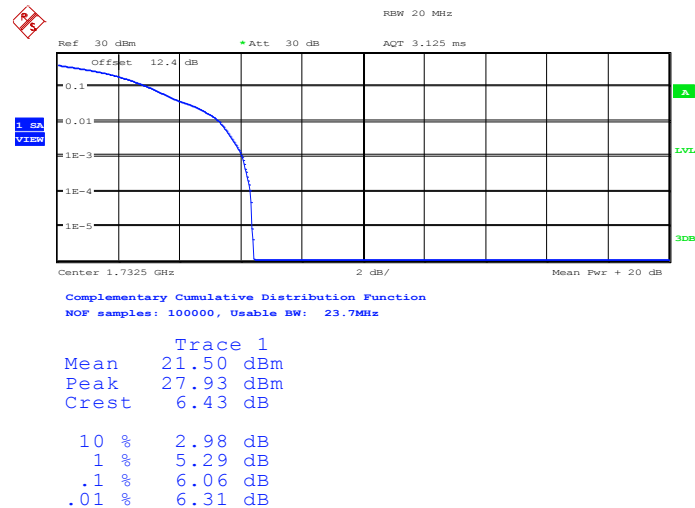
20MHz / 16QAM in Ch. 20050 (1RB Size)



Date: 7.MAY.2014 16:36:26

Peak-to-Average Ratio on LTE Band 4

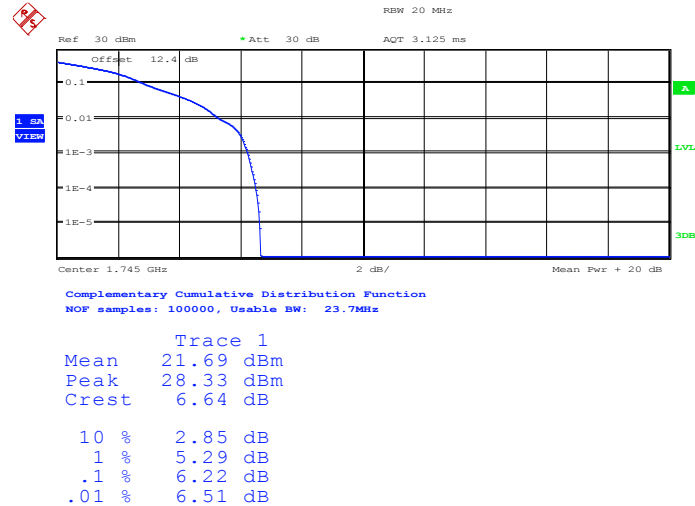
20MHz / 16QAM in Ch. 20175 (1RB Size)



Date: 7.MAY.2014 16:37:12

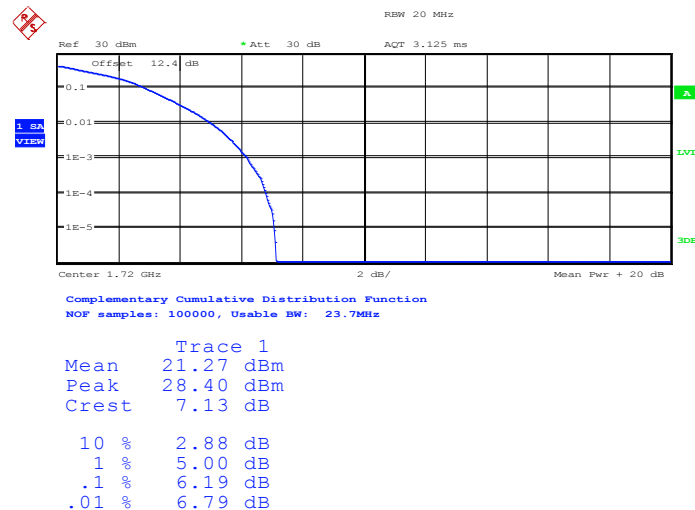


Peak-to-Average Ratio on LTE Band 4
20MHz / 16QAM in Ch. 20300 (1RB Size)



Date: 7.MAY.2014 16:38:06

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

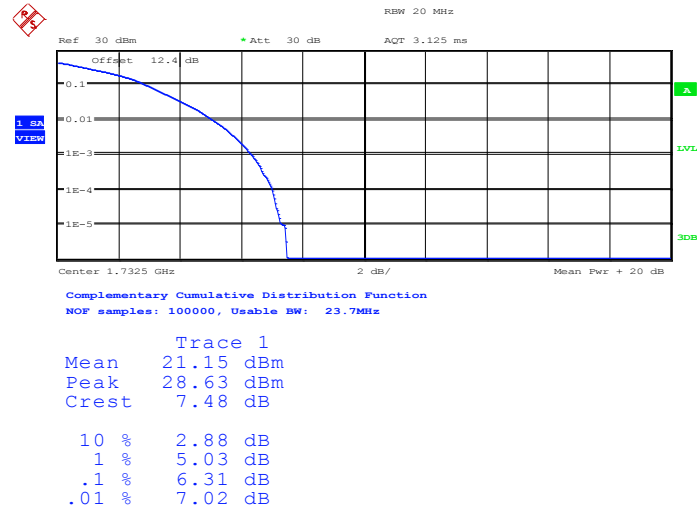


Date: 7.MAY.2014 16:36:48



Peak-to-Average Ratio on LTE Band 4

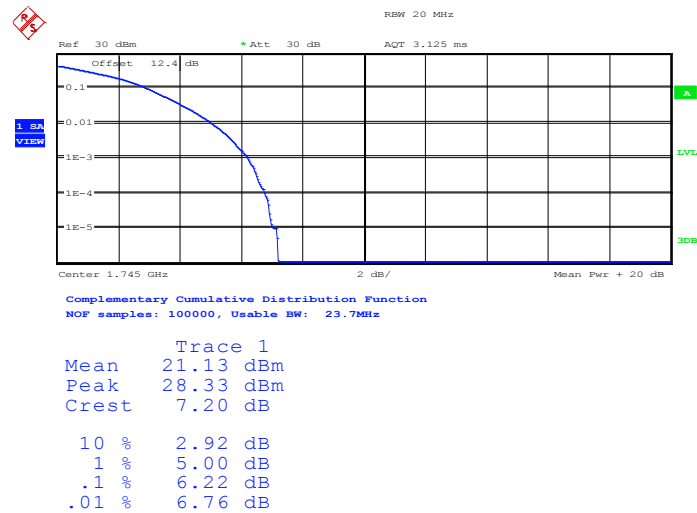
20MHz / 16QAM in Ch. 201750 (100RB Size)



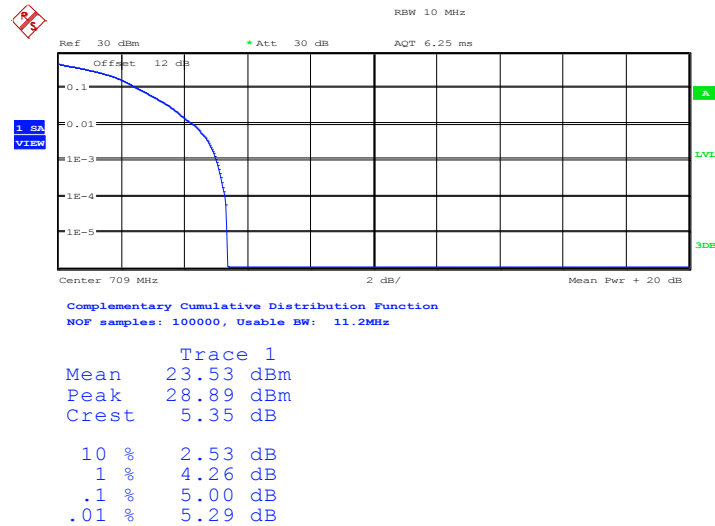
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Peak-to-Average Ratio on LTE Band 4

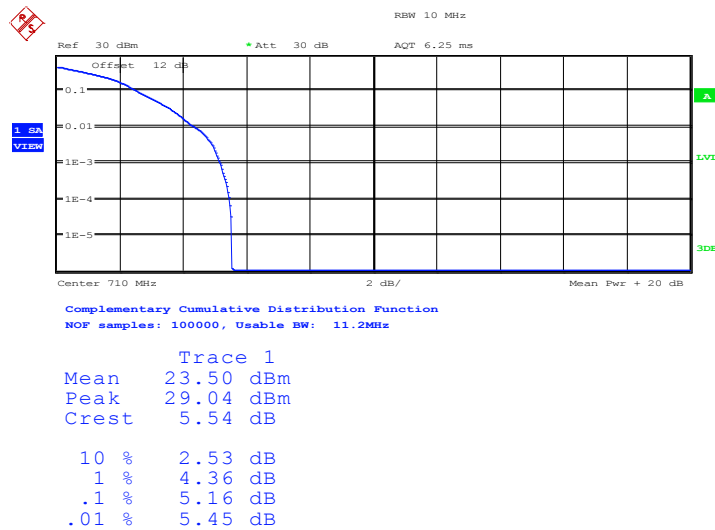
20MHz / 16QAM in Ch. 20300 (100RB Size)



Date: 7.MAY.2014 16:38:37

Peak-to-Average Ratio on LTE Band 17
10MHz / 16QAM in Ch. 23780 (1RB Size)


Date: 8.MAY.2014 14:29:25

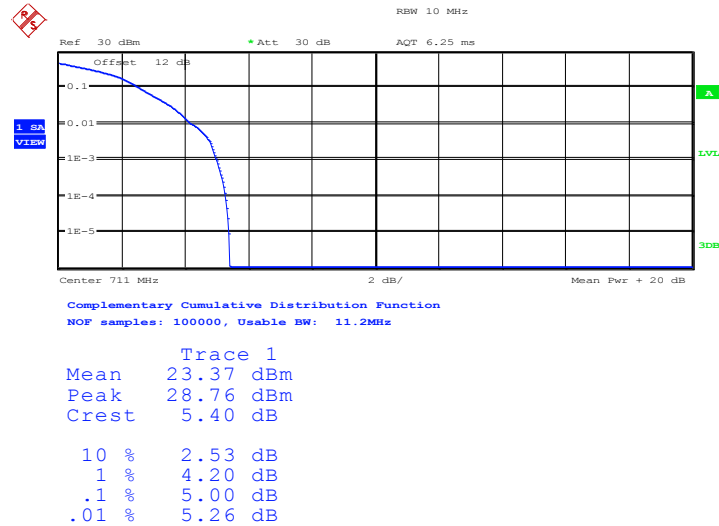
Peak-to-Average Ratio on LTE Band 17
10MHz / 16QAM in Ch. 23790 (1RB Size)


Date: 8.MAY.2014 14:30:11



Peak-to-Average Ratio on LTE Band 17

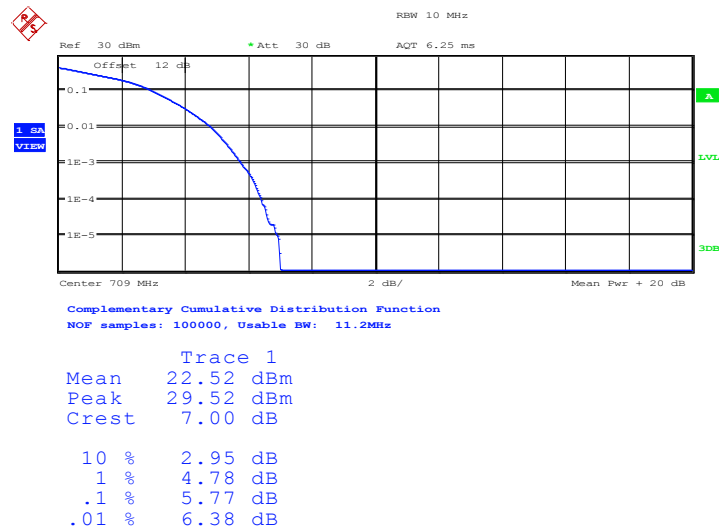
10MHz / 16QAM in Ch. 23800 (1RB Size)



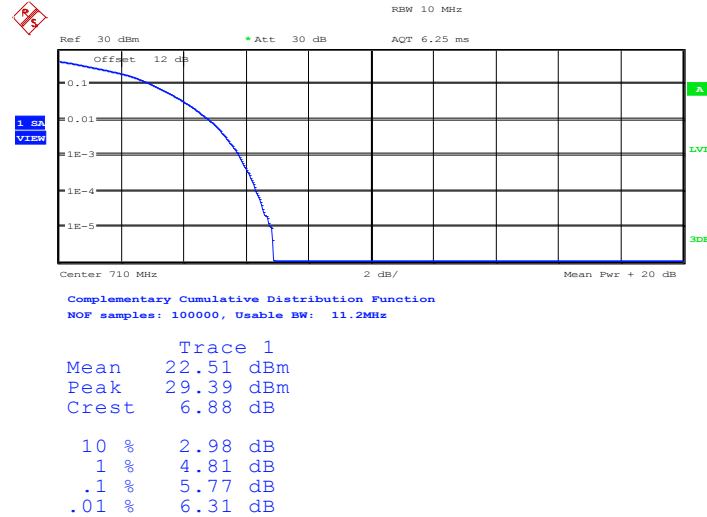
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Peak-to-Average Ratio on LTE Band 17

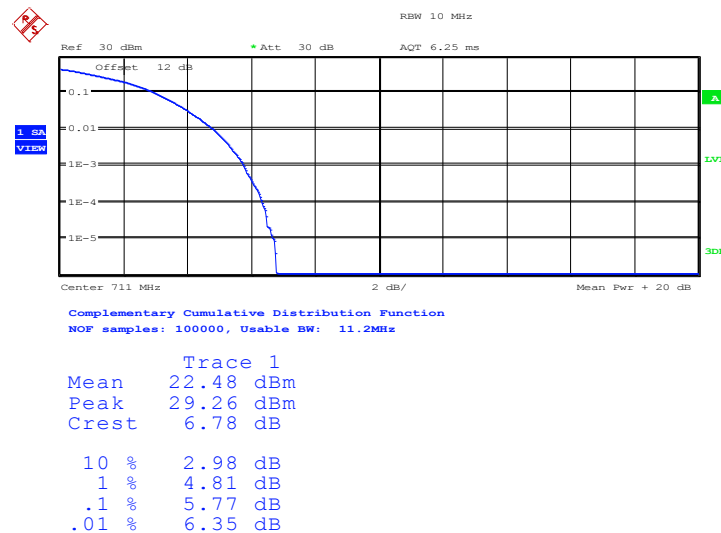
10MHz / 16QAM in Ch. 23780 (50RB Size)



Date: 8.MAY.2014 14:29:49

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


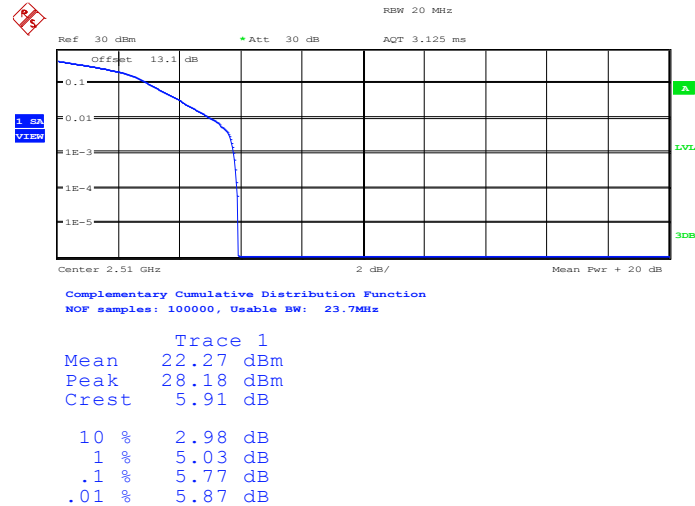
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Peak-to-Average Ratio on LTE Band 17
10MHz / 16QAM in Ch. 23800 (50RB Size)


Date: 8.MAY.2014 14:31:43

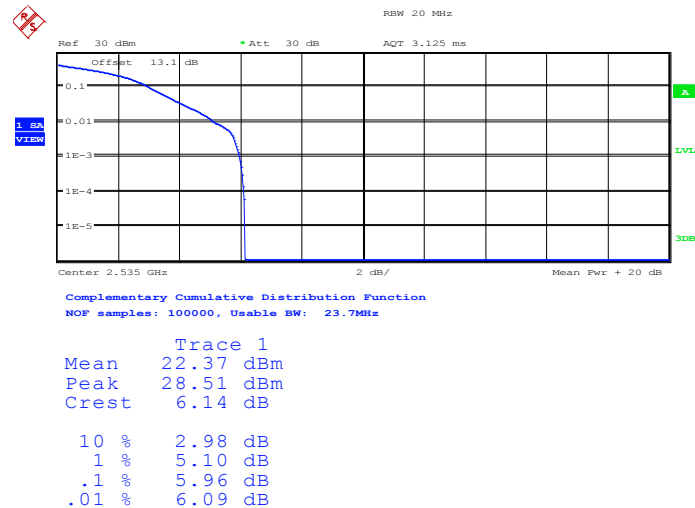


Peak-to-Average Ratio on LTE Band 7
20MHz / 16QAM in Ch. 20850 (1RB Size)



Date: 7.MAY.2014 17:45:49

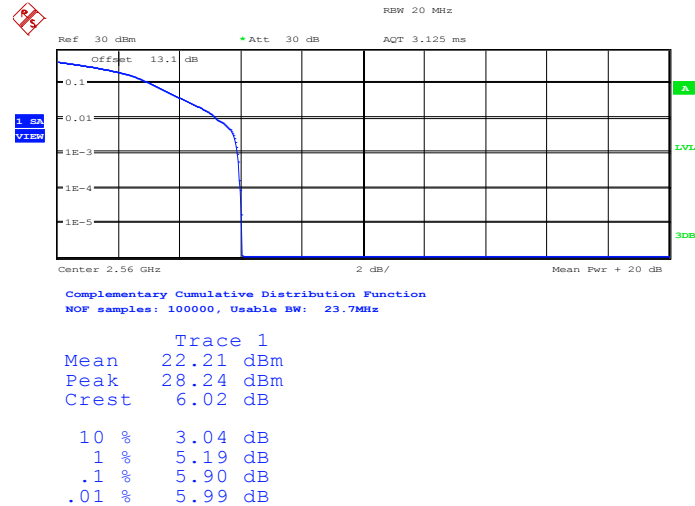
Peak-to-Average Ratio on LTE Band 7
20MHz / 16QAM in Ch. 21100 (1RB Size)



Date: 7.MAY.2014 17:47:04

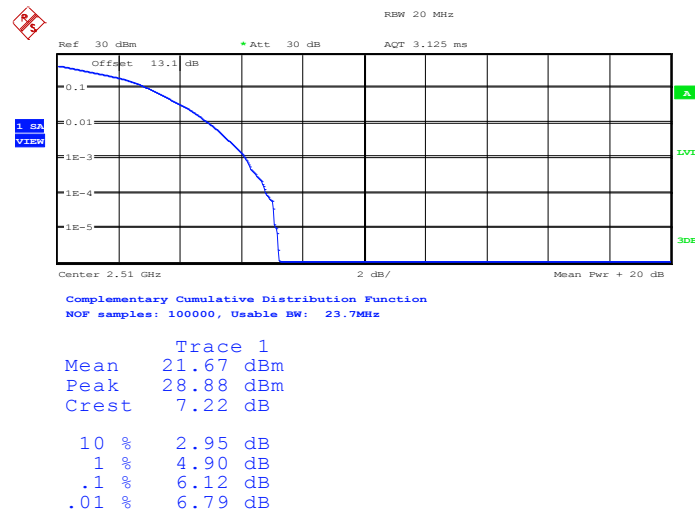


Peak-to-Average Ratio on LTE Band 7
20MHz / 16QAM in Ch. 21350 (1RB Size)



Date: 7.MAY.2014 17:48:34

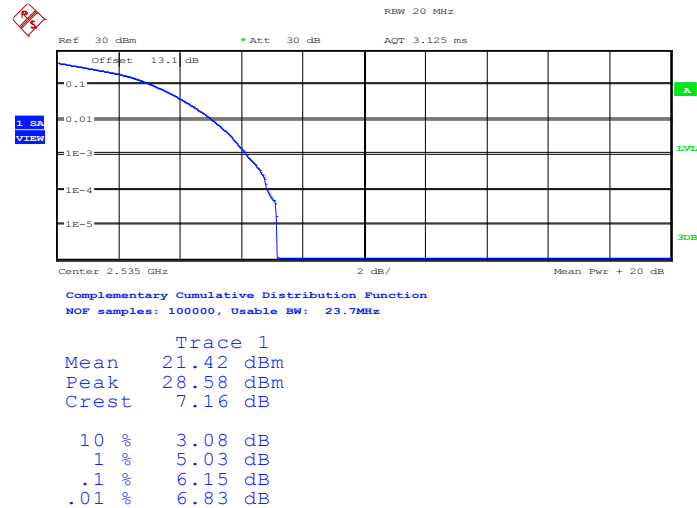
Peak-to-Average Ratio on LTE Band 7
20MHz / 16QAM in Ch. 20850 (100RB Size)



Date: 7.MAY.2014 17:46:14

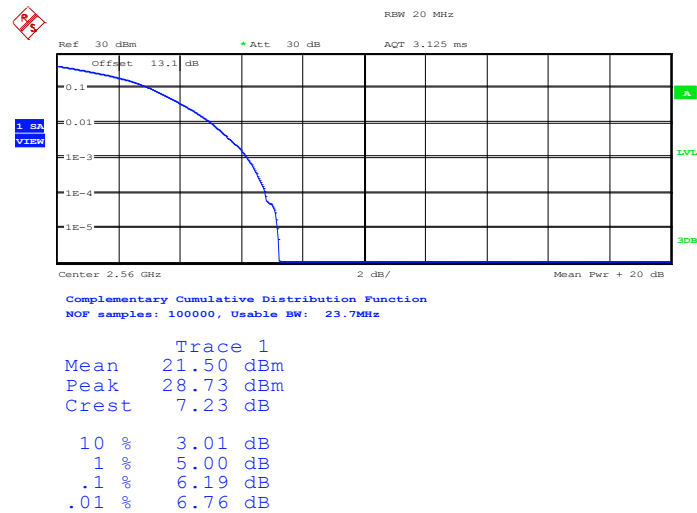


Peak-to-Average Ratio on LTE Band 7
20MHz / 16QAM in Ch. 21150 (100RB Size)



Date: 7.MAY.2014 17:47:46

Peak-to-Average Ratio on LTE Band 7
20MHz / 16QAM in Ch. 21350 (100RB Size)



Date: 7.MAY.2014 17:49:08

3.3 Effective Radiated Power and Equivalent Isotropic Radiated Power Measurement

3.3.1 Description of the ERP/EIRP Measurement

Effective radiated power output measurements by substitution method according to ANSI / TIA / EIA-603-C-2004, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v02r01. Mobile and portable (hand-held) stations operating are limited to average ERP of 3 watts with LTE band 17.

Equivalent isotropic radiated power output measurements by substitution method according to ANSI / TIA / EIA-603-C-2004, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v02r01. Mobile and portable (hand-held) stations operating are limited to average EIRP of 2 watts with LTE band 7 and 1 watt with LTE band 4.

3.3.2 Measuring Instruments

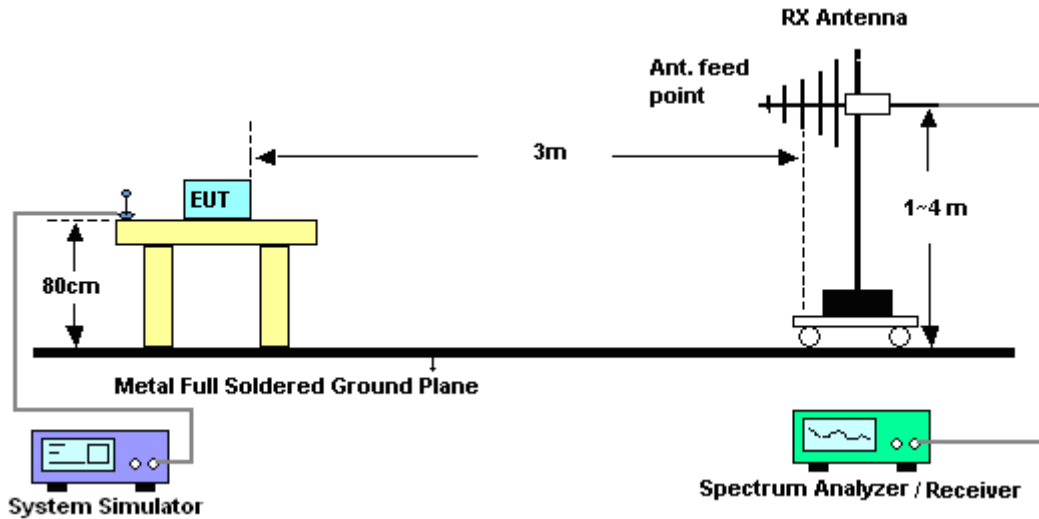
The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

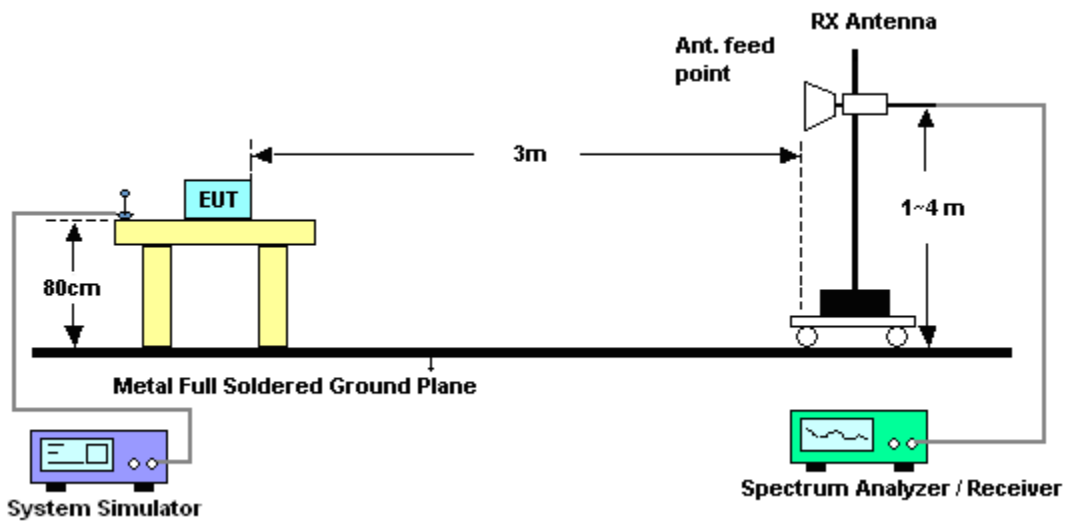
1. The EUT was placed on a non-conductive rotating platform 0.8 meters high in a semi-anechoic chamber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer with RMS detector per section 5. of KDB 971168 D01.
2. During the measurement, the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

3.3.4 Test Setup

For Effective Radiated Power



For Equivalent Isotropic Radiated Power



3.3.5 Test Result of ERP/EIRP

LTE Band 4 Radiated Power EIRP for BW 1.4MHz / QPSK				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1710.70	-22.30	43.43	21.13	0.13
1732.50	-22.28	43.34	21.06	0.13
1754.30	-22.67	43.65	20.98	0.13
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1710.70	-23.01	46.93	23.92	0.25
1732.50	-22.05	46.19	24.14	0.26
1754.30	-23.05	47.3	24.25	0.27

LTE Band 4 Radiated Power EIRP for BW 1.4MHz / 16QAM				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1710.70	-22.53	43.43	20.90	0.12
1732.50	-22.21	43.34	21.13	0.13
1754.30	-22.82	43.65	20.83	0.12
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1710.70	-24.39	46.93	22.54	0.18
1732.50	-23.10	46.19	23.09	0.20
1754.30	-24.27	47.3	23.03	0.20

LTE Band 4 Radiated Power EIRP for BW 3MHz / QPSK				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1711.50	-22.27	43.38	21.11	0.13
1732.50	-22.26	43.34	21.08	0.13
1753.50	-22.55	43.51	20.96	0.12
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1711.50	-22.80	46.65	23.85	0.24
1732.50	-22.07	46.19	24.12	0.26
1753.50	-23.46	47.65	24.19	0.26

LTE Band 4 Radiated Power EIRP for BW 3MHz / 16QAM				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1711.50	-22.93	43.38	20.45	0.11
1732.50	-22.52	43.34	20.82	0.12
1753.50	-22.90	43.51	20.61	0.12
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1711.50	-24.30	46.65	22.35	0.17
1732.50	-23.37	46.19	22.82	0.19
1753.50	-24.42	47.65	23.23	0.21

LTE Band 4 Radiated Power EIRP for BW 5MHz / QPSK				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1712.50	-21.67	42.75	21.08	0.13
1732.50	-22.21	43.34	21.13	0.13
1752.50	-22.38	43.28	20.90	0.12
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1712.50	-22.46	46.26	23.80	0.24
1732.50	-22.17	46.19	24.02	0.25
1752.50	-23.58	47.72	24.14	0.26

LTE Band 4 Radiated Power EIRP for BW 5MHz / 16QAM				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1712.50	-22.26	42.75	20.49	0.11
1732.50	-22.49	43.34	20.85	0.12
1752.50	-22.63	43.28	20.65	0.12
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1712.50	-23.87	46.26	22.39	0.17
1732.50	-23.40	46.19	22.79	0.19
1752.50	-24.60	47.72	23.12	0.21

LTE Band 4 Radiated Power EIRP for BW 10MHz / QPSK				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1715.00	-20.32	42.22	21.90	0.15
1732.50	-21.22	43.34	22.12	0.16
1750.00	-22.52	44.37	21.85	0.15
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1715.00	-22.06	45.79	23.73	0.24
1732.50	-22.08	46.19	24.11	0.26
1750.00	-22.90	47.21	24.31	0.27

LTE Band 4 Radiated Power EIRP for BW 10MHz / 16QAM				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1715.00	-21.66	42.22	20.56	0.11
1732.50	-22.47	43.34	20.87	0.12
1750.00	-23.74	44.37	20.63	0.12
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1715.00	-23.29	45.79	22.50	0.18
1732.50	-23.35	46.19	22.84	0.19
1750.00	-24.09	47.21	23.12	0.21

LTE Band 4 Radiated Power EIRP for BW 15MHz / QPSK				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1717.50	-21.36	42.93	21.57	0.14
1732.50	-21.49	43.34	21.85	0.15
1747.50	-21.86	43.58	21.72	0.15
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1717.50	-22.65	46.52	23.87	0.24
1732.50	-21.86	46.19	24.33	0.27
1747.50	-22.64	47.08	24.44	0.28

LTE Band 4 Radiated Power EIRP for BW 15MHz / 16QAM				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1717.50	-22.25	42.93	20.68	0.12
1732.50	-22.35	43.34	20.99	0.13
1747.50	-22.74	43.58	20.84	0.12
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1717.50	-23.98	46.52	22.54	0.18
1732.50	-23.18	46.19	23.01	0.20
1747.50	-23.96	47.08	23.12	0.21

LTE Band 4 Radiated Power EIRP for BW 20MHz / QPSK				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1720.00	-22.34	43.42	21.08	0.13
1732.50	-22.16	43.34	21.18	0.13
1745.00	-22.58	43.62	21.04	0.13
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1720.00	-22.55	46.18	23.63	0.23
1732.50	-22.19	46.19	24.00	0.25
1745.00	-22.47	46.54	24.07	0.26

LTE Band 4 Radiated Power EIRP for BW 20MHz / 16QAM				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1720.00	-22.67	43.42	20.75	0.12
1732.50	-22.36	43.34	20.98	0.13
1745.00	-22.84	43.62	20.78	0.12
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
1720.00	-23.60	46.18	22.58	0.18
1732.50	-23.23	46.19	22.96	0.20
1745.00	-23.57	46.54	22.97	0.20

LTE Band 17 Radiated Power ERP for BW 5MHz / QPSK						
Horizontal Polarization						
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)	EIRP (dBm)	EIRP (W)
706.50	-14.26	30.84	14.43	0.03	16.58	0.05
710.00	-14.78	30.86	13.93	0.02	16.08	0.04
713.50	-14.45	30.81	14.21	0.03	16.36	0.04
Vertical Polarization						
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)	EIRP (dBm)	EIRP (W)
706.50	-19.15	34.59	13.29	0.02	15.44	0.03
710.00	-18.49	34.03	13.39	0.02	15.54	0.04
713.50	-18.81	33.68	12.72	0.02	14.87	0.03

* ERP = LVL (dBm) + Correction Factor (dB) - 2.15

LTE Band 17 Radiated Power ERP for BW 5MHz / 16QAM						
Horizontal Polarization						
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)	EIRP (dBm)	EIRP (W)
706.50	-15.31	30.84	13.38	0.02	15.53	0.04
710.00	-15.89	30.86	12.82	0.02	14.97	0.03
713.50	-15.46	30.81	13.20	0.02	15.35	0.03
Vertical Polarization						
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)	EIRP (dBm)	EIRP (W)
706.50	-20.54	34.59	11.90	0.02	14.05	0.03
710.00	-19.56	34.03	12.32	0.02	14.47	0.03
713.50	-19.46	33.68	12.07	0.02	14.22	0.03

* ERP = LVL (dBm) + Correction Factor (dB) - 2.15

LTE Band 17 Radiated Power ERP for BW 10MHz / QPSK						
Horizontal Polarization						
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)	EIRP (dBm)	EIRP (W)
709.00	-14.12	30.77	14.50	0.03	16.65	0.05
710.00	-14.38	30.86	14.33	0.03	16.48	0.04
711.00	-14.64	30.82	14.03	0.03	16.18	0.04
Vertical Polarization						
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)	EIRP (dBm)	EIRP (W)
709.00	-18.82	34.16	13.19	0.02	15.34	0.03
710.00	-18.29	34.03	13.59	0.02	15.74	0.04
711.00	-18.69	33.94	13.10	0.02	15.25	0.03

* ERP = LVL (dBm) + Correction Factor (dB) - 2.15

LTE Band 17 Radiated Power ERP for BW 10MHz / 16QAM						
Horizontal Polarization						
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)	EIRP (dBm)	EIRP (W)
709.00	-15.24	30.77	13.38	0.02	15.53	0.04
710.00	-15.36	30.86	13.35	0.02	15.50	0.04
711.00	-15.71	30.82	12.96	0.02	15.11	0.03
Vertical Polarization						
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	ERP (dBm)	ERP (W)	EIRP (dBm)	EIRP (W)
709.00	-19.70	34.16	12.31	0.02	14.46	0.03
710.00	-19.30	34.03	12.58	0.02	14.73	0.03
711.00	-19.37	33.94	12.42	0.02	14.57	0.03

* ERP = LVL (dBm) + Correction Factor (dB) - 2.15

LTE Band 7 Radiated Power EIRP for BW 5MHz / QPSK				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
2502.50	-23.10	46.44	23.34	0.22
2535.00	-23.06	46.85	23.79	0.24
2567.50	-23.36	46.93	23.57	0.23
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
2502.50	-32.72	48.49	15.77	0.04
2535.00	-32.12	47.50	15.38	0.03
2567.50	-33.31	48.26	14.95	0.03

LTE Band 7 Radiated Power EIRP for BW 5MHz / 16QAM				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
2502.50	-24.15	46.44	22.29	0.17
2535.00	-24.21	46.85	22.64	0.18
2567.50	-23.94	46.93	22.99	0.20
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
2502.50	-33.83	48.49	14.66	0.03
2535.00	-33.16	47.50	14.34	0.03
2567.50	-34.37	48.26	13.89	0.02

LTE Band 7 Radiated Power EIRP for BW 10MHz / QPSK				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
2505.00	-23.15	46.38	23.23	0.21
2535.00	-22.96	46.85	23.89	0.24
2565.00	-22.88	46.89	24.01	0.25
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
2505.00	-32.57	48.26	15.69	0.04
2535.00	-32.05	47.50	15.45	0.04
2565.00	-33.26	48.10	14.84	0.03

LTE Band 7 Radiated Power EIRP for BW 10MHz / 16QAM				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
2505.00	-23.93	46.38	22.45	0.18
2535.00	-23.96	46.85	22.89	0.19
2565.00	-23.93	46.89	22.96	0.20
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
2505.00	-33.51	48.26	14.75	0.03
2535.00	-33.00	47.50	14.50	0.03
2565.00	-34.09	48.10	14.01	0.03

LTE Band 7 Radiated Power EIRP for BW 15MHz / QPSK				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
2507.50	-23.19	46.51	23.32	0.21
2535.00	-23.15	46.85	23.70	0.23
2562.50	-22.47	46.44	23.97	0.25
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
2507.50	-32.14	47.86	15.72	0.04
2535.00	-32.00	47.50	15.50	0.04
2562.50	-32.98	48.09	15.11	0.03

LTE Band 7 Radiated Power EIRP for BW 15MHz / 16QAM				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
2507.50	-24.21	46.51	22.30	0.17
2535.00	-24.12	46.85	22.73	0.19
2562.50	-23.43	46.44	23.01	0.20
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
2507.50	-33.21	47.86	14.65	0.03
2535.00	-33.08	47.50	14.42	0.03
2562.50	-34.08	48.09	14.01	0.03

LTE Band 7 Radiated Power EIRP for BW 20MHz / QPSK				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
2510.00	-24.26	46.54	22.28	0.17
2535.00	-23.07	46.85	23.78	0.24
2560.00	-22.76	46.49	23.73	0.24
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
2510.00	-32.01	47.75	15.74	0.04
2535.00	-32.07	47.50	15.43	0.03
2560.00	-33.20	48.43	15.23	0.03

LTE Band 7 Radiated Power EIRP for BW 20MHz / 16QAM				
Horizontal Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
2510.00	-24.23	46.54	22.31	0.17
2535.00	-24.11	46.85	22.74	0.19
2560.00	-24.17	46.49	22.32	0.17
Vertical Polarization				
Frequency (MHz)	LVL (dBm)	Correction Factor (dB)	EIRP (dBm)	EIRP (W)
2510.00	-33.11	47.75	14.64	0.03
2535.00	-33.03	47.50	14.47	0.03
2560.00	-34.28	48.43	14.15	0.03

3.4 Occupied Bandwidth

3.4.1 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.

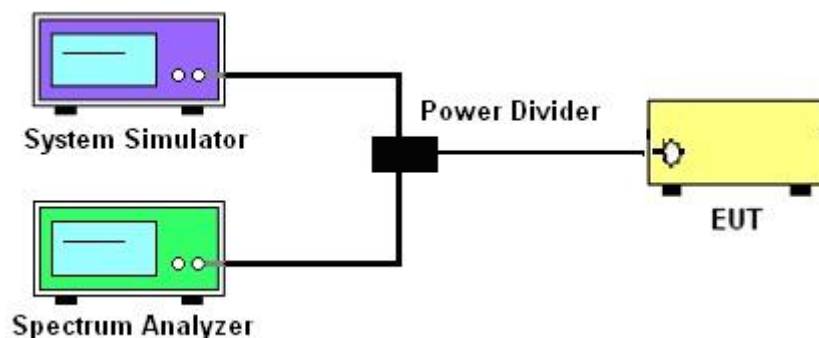
3.4.2 Measuring Instruments

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

3.4.3 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.

3.4.4 Test Setup

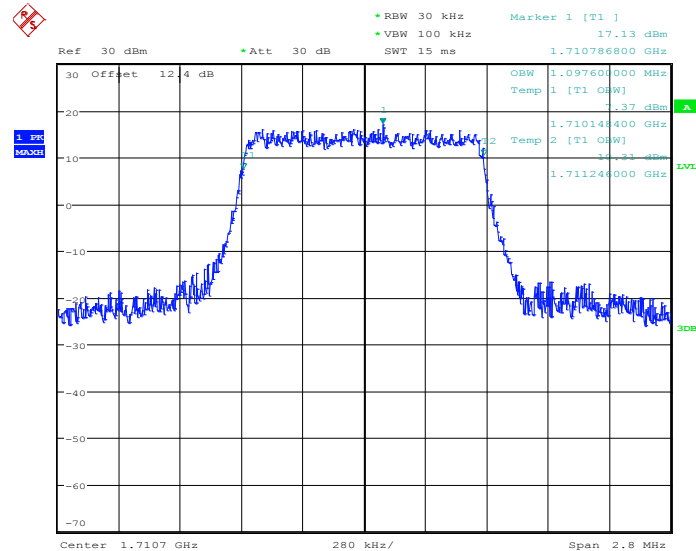




3.4.5 Test Result (Plots) of Occupied Bandwidth

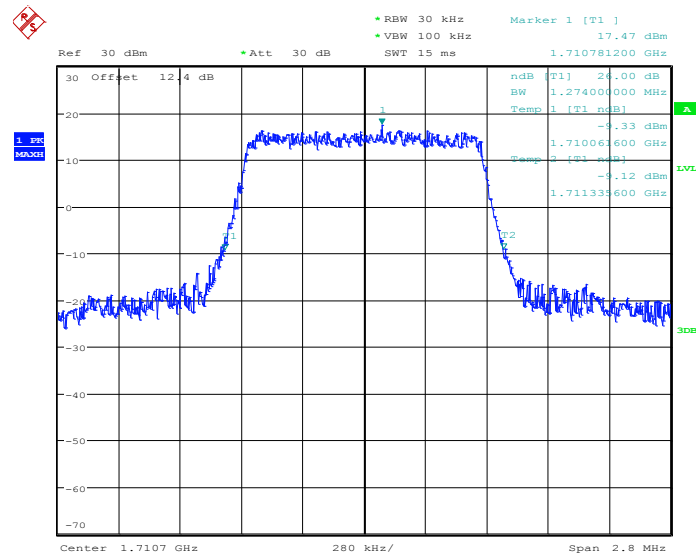
Band :	LTE Band 4	BW / Mod. :	1.4MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 19957



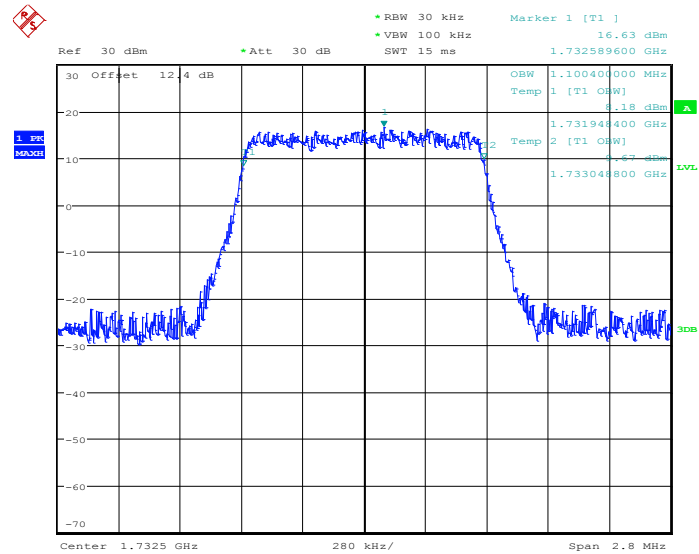
Date: 7.MAY.2014 14:50:16

26dB Bandwidth Plot on Channel 19957



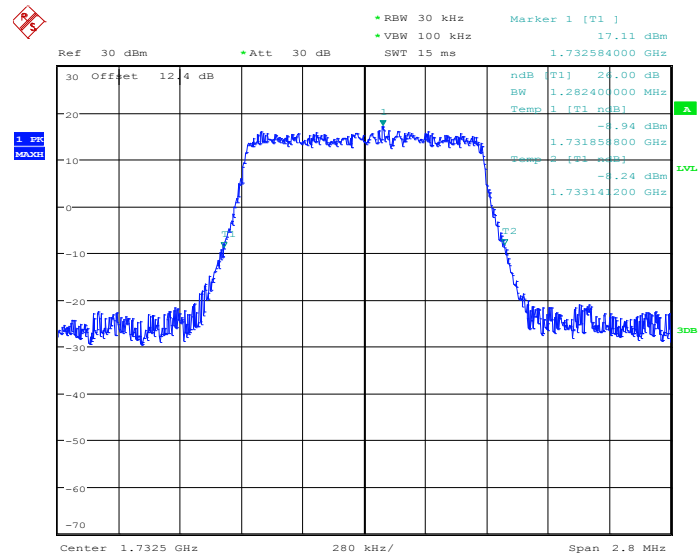
Date: 7.MAY.2014 14:50:50

99% Occupied Bandwidth Plot on Channel 20175



Date: 7.MAY.2014 14:56:32

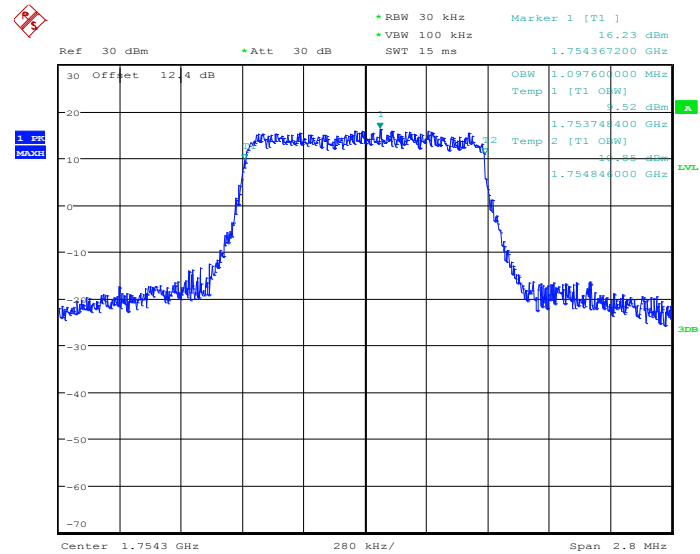
26dB Bandwidth Plot on Channel 20175



Date: 7.MAY.2014 14:57:05

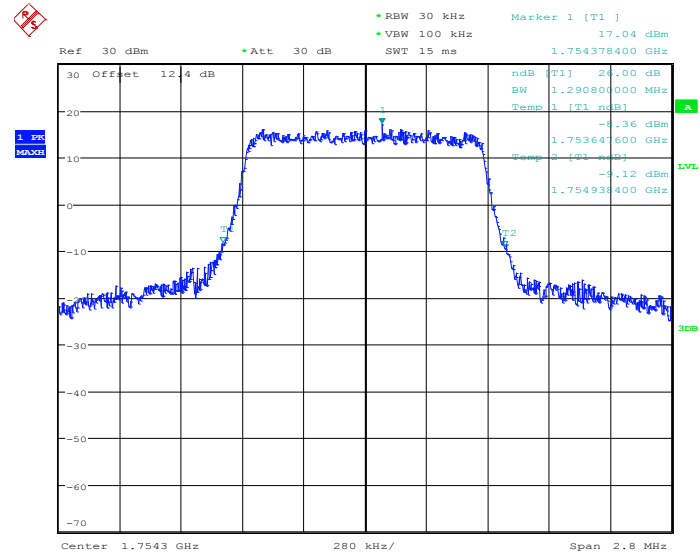


99% Occupied Bandwidth Plot on Channel 20393



Date: 7.MAY.2014 14:59:39

26dB Bandwidth Plot on Channel 20393

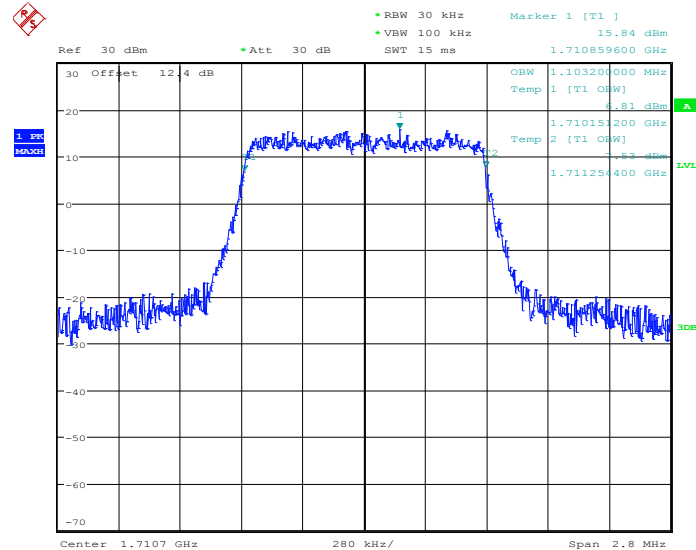


Date: 7.MAY.2014 15:00:13



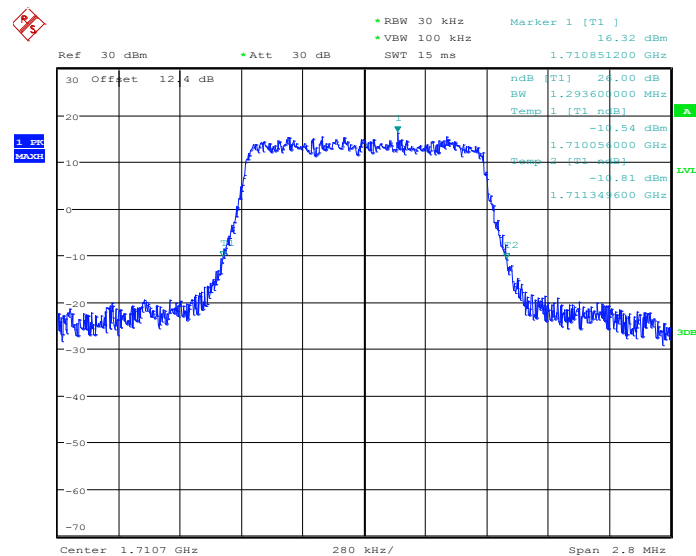
Band :	LTE Band 4	BW / Mod. :	1.4MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 19957



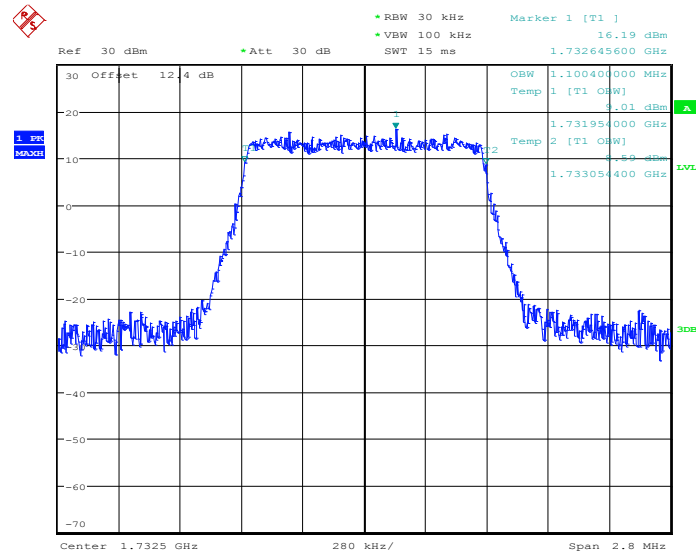
Date: 7.MAY.2014 14:50:33

26dB Bandwidth Plot on Channel 19957



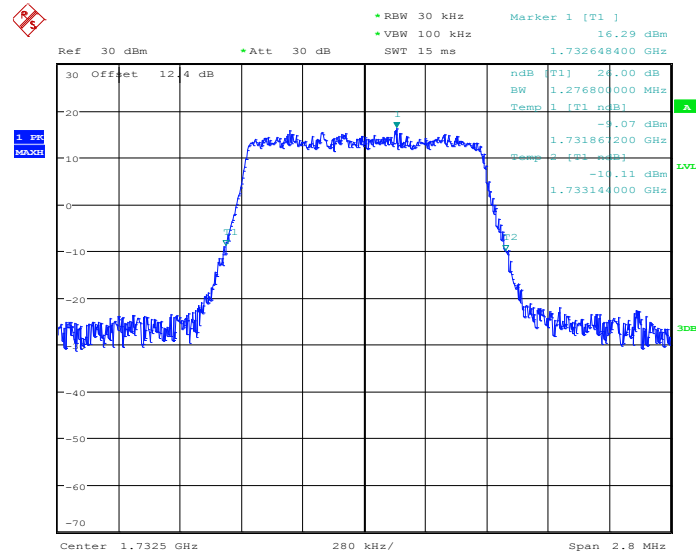
Date: 7.MAY.2014 14:51:08

99% Occupied Bandwidth Plot on Channel 20175



Date: 7.MAY.2014 14:56:48

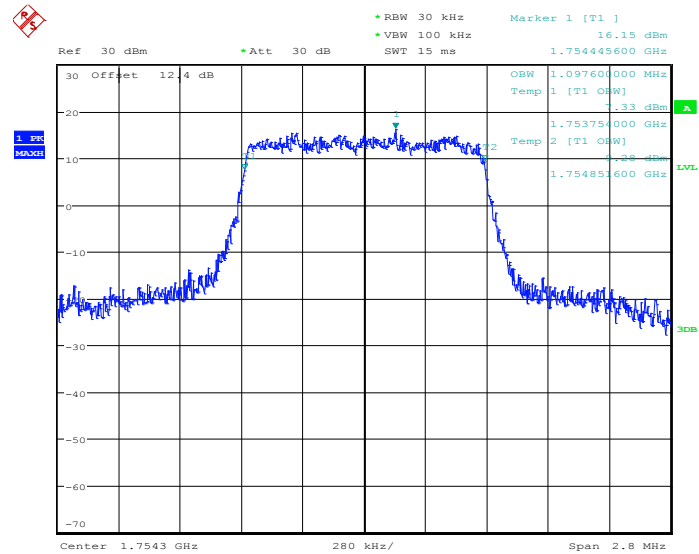
26dB Bandwidth Plot on Channel 20175



Date: 7.MAY.2014 14:57:23

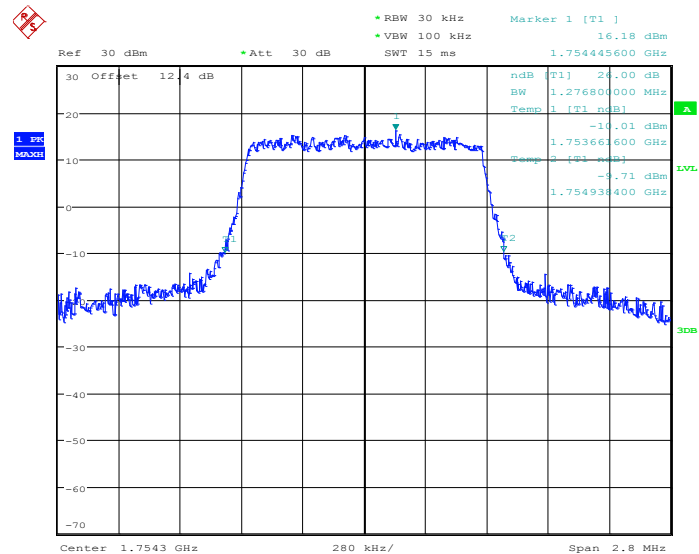


99% Occupied Bandwidth Plot on Channel 20393



Date: 7.MAY.2014 14:59:55

26dB Bandwidth Plot on Channel 20393

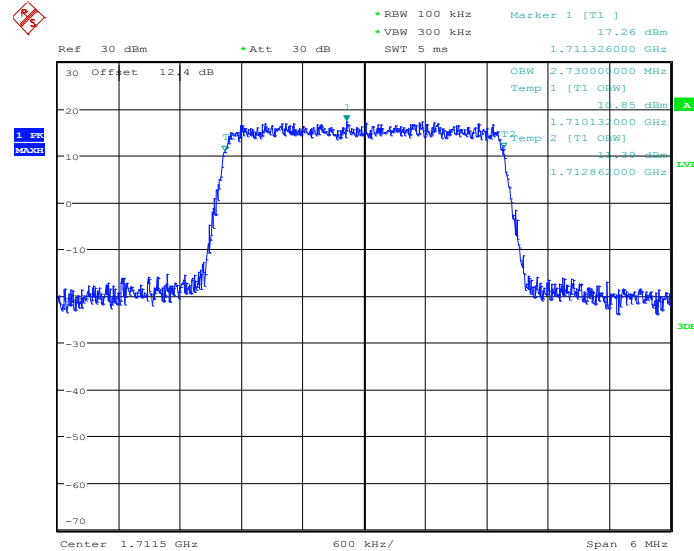


Date: 7.MAY.2014 15:00:30



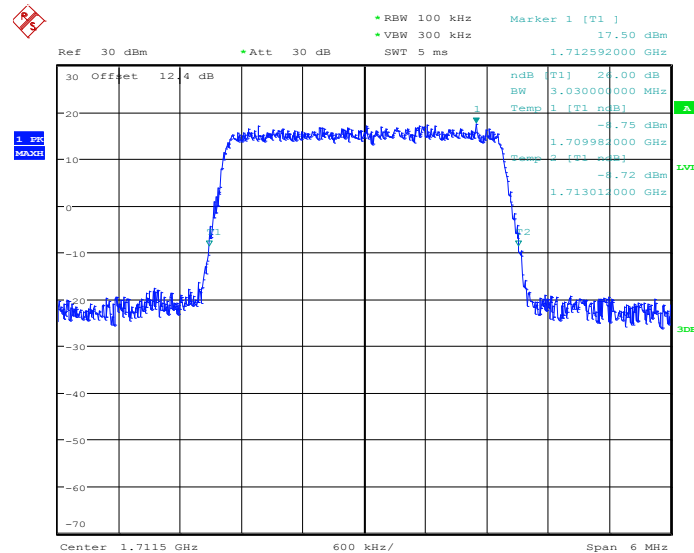
Band :	LTE Band 4	BW / Mod. :	3MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 19965



Date: 7.MAY.2014 16:39:14

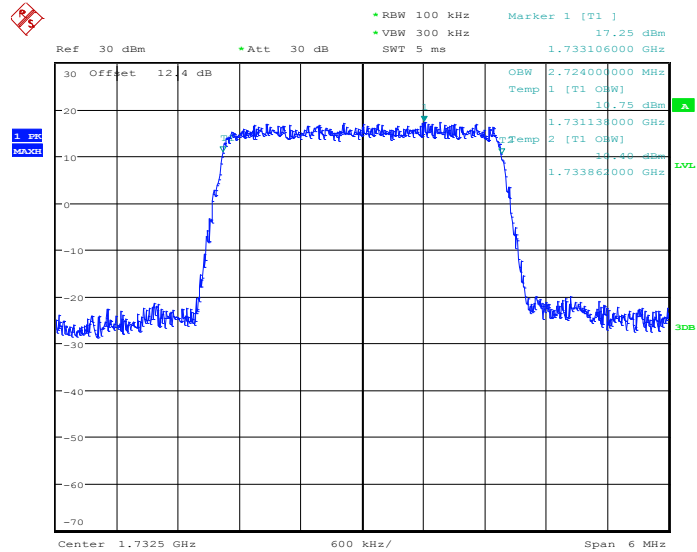
26dB Bandwidth Plot on Channel 19965



Date: 7.MAY.2014 15:18:10

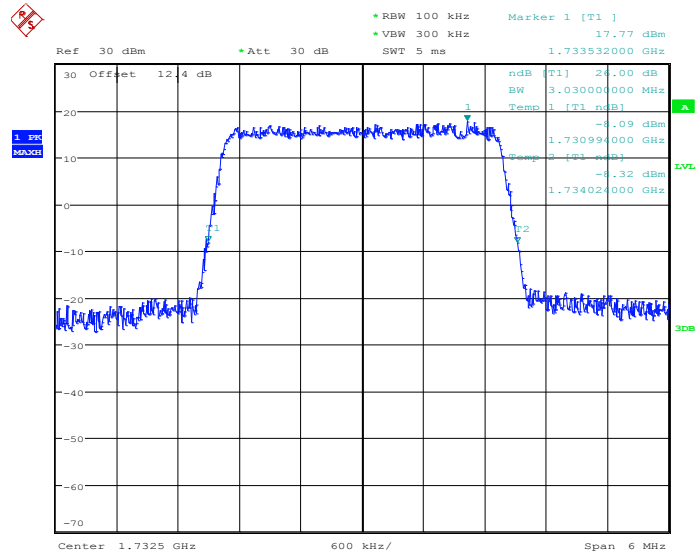


99% Occupied Bandwidth Plot on Channel 20175



Date: 7.MAY.2014 15:23:52

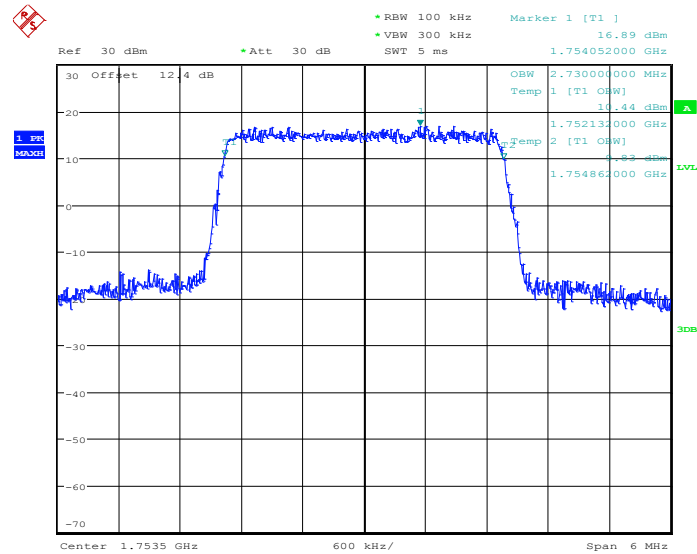
26dB Bandwidth Plot on Channel 20175



Date: 7.MAY.2014 15:24:25

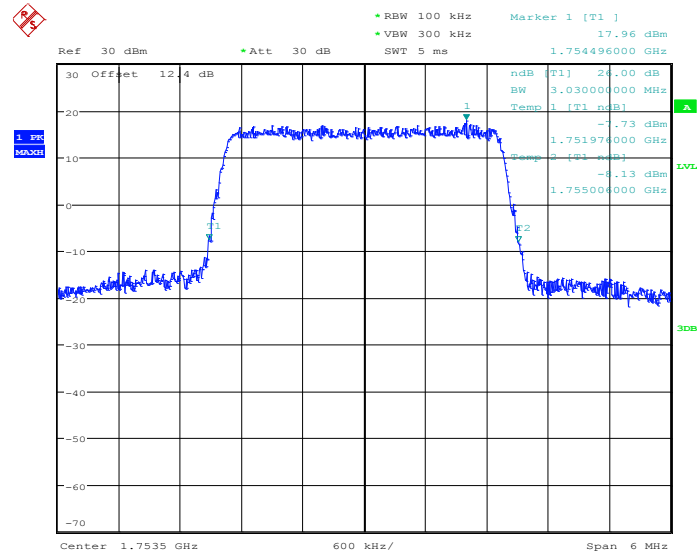


99% Occupied Bandwidth Plot on Channel 20385



Date: 7.MAY.2014 15:26:59

26dB Bandwidth Plot on Channel 20385

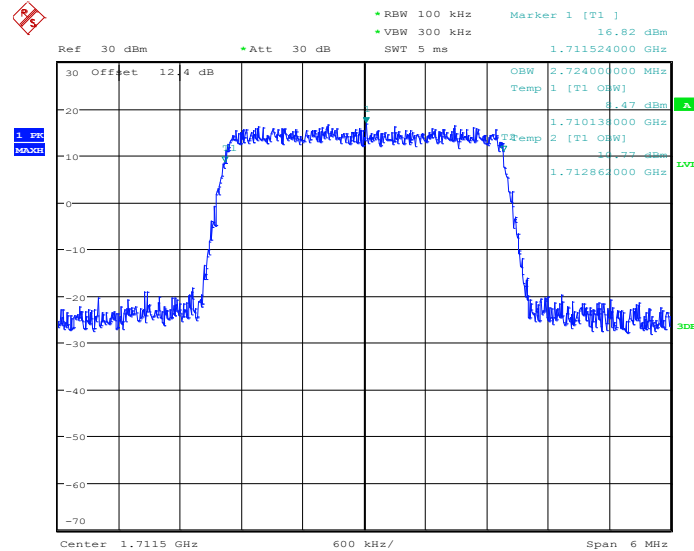


Date: 7.MAY.2014 15:27:33



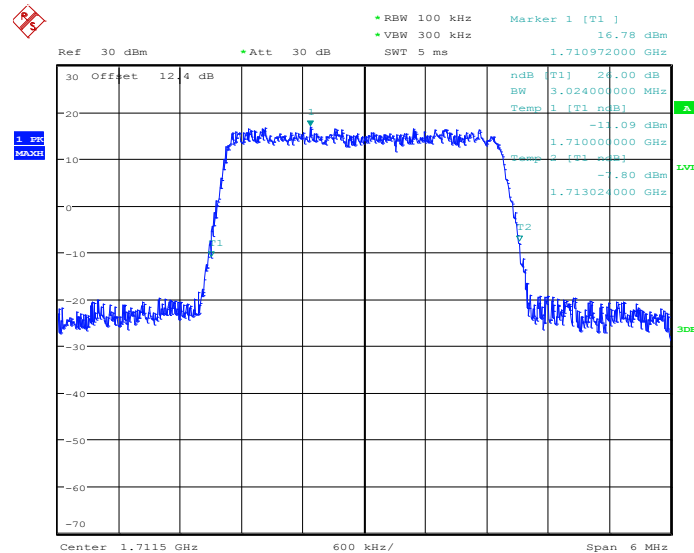
Band :	LTE Band 4	BW / Mod. :	3MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 19965



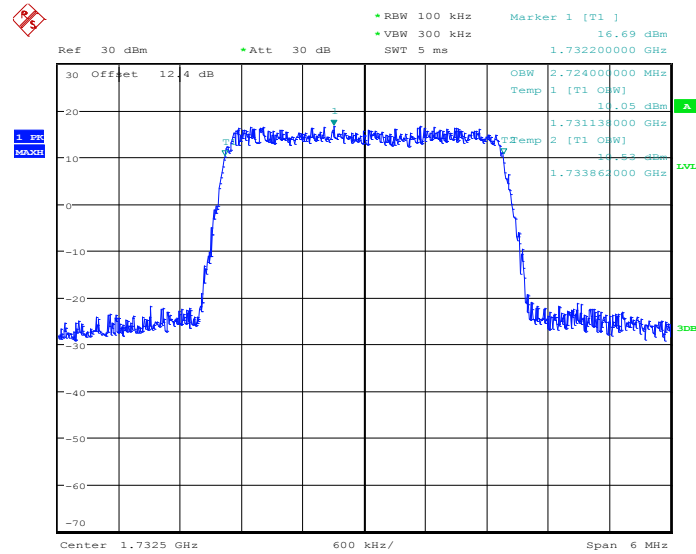
Date: 7.MAY.2014 15:17:51

26dB Bandwidth Plot on Channel 19965



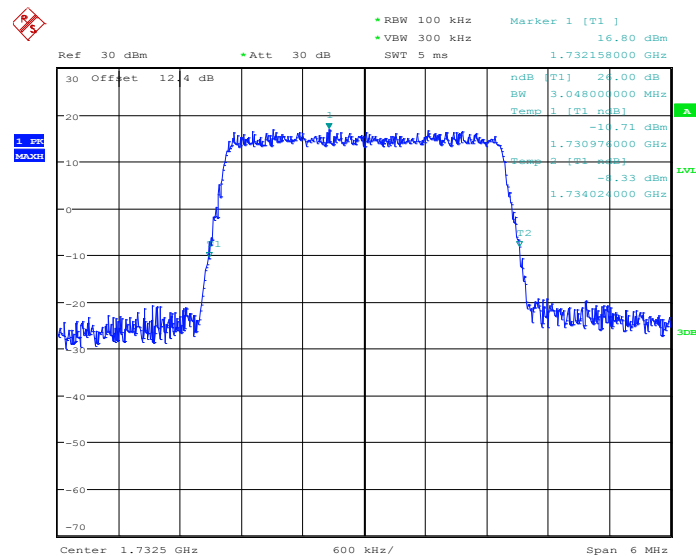
Date: 7.MAY.2014 15:18:27

99% Occupied Bandwidth Plot on Channel 20175



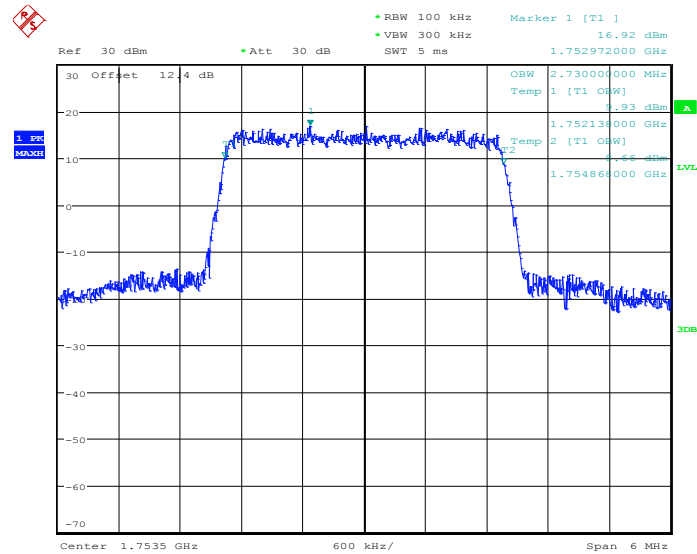
Date: 7.MAY.2014 15:24:07

26dB Bandwidth Plot on Channel 20175



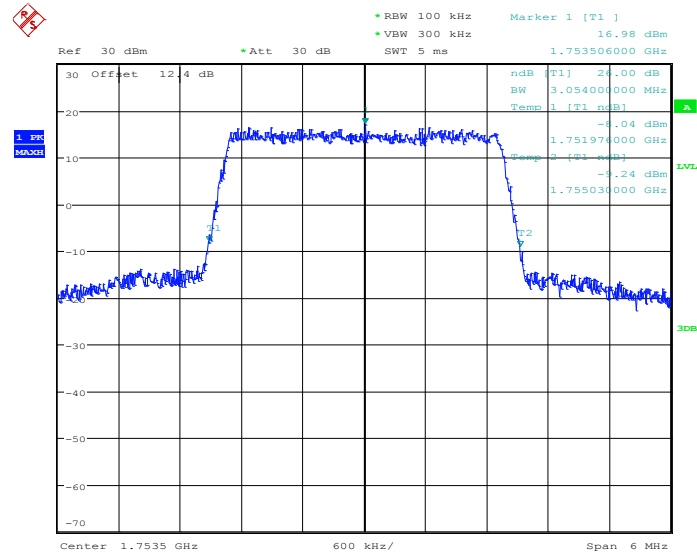
Date: 7.MAY.2014 15:24:43

99% Occupied Bandwidth Plot on Channel 20385



Date: 7.MAY.2014 15:27:15

26dB Bandwidth Plot on Channel 20385

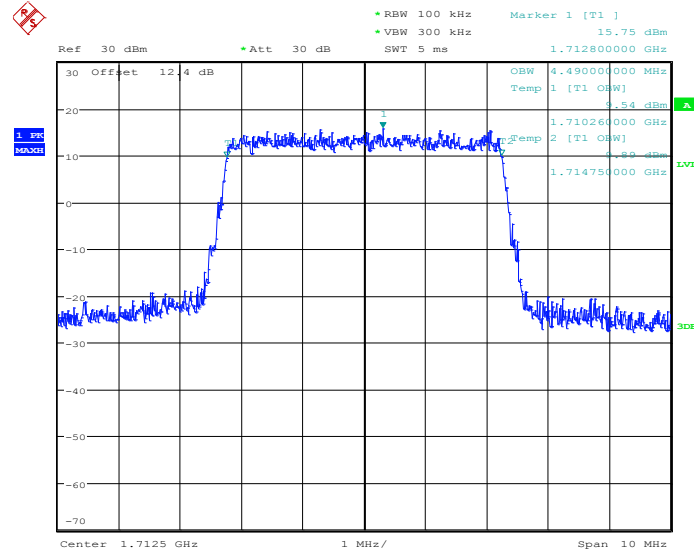


Date: 7.MAY.2014 15:27:50



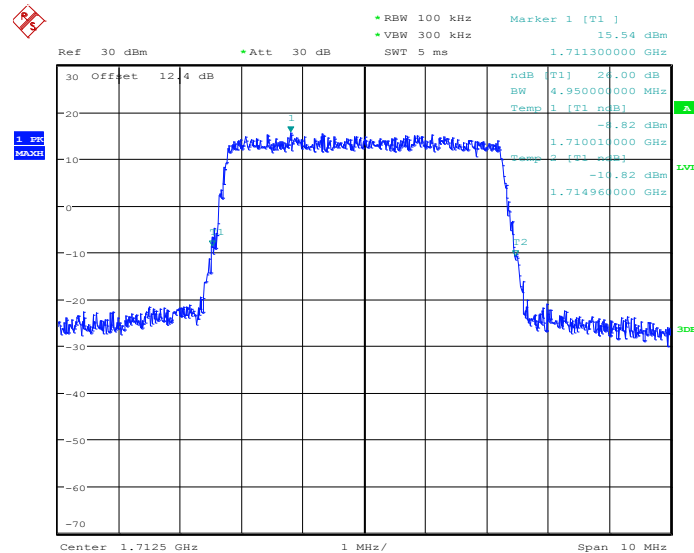
Band :	LTE Band 4	BW / Mod. :	5MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 19975



Date: 7.MAY.2014 15:33:19

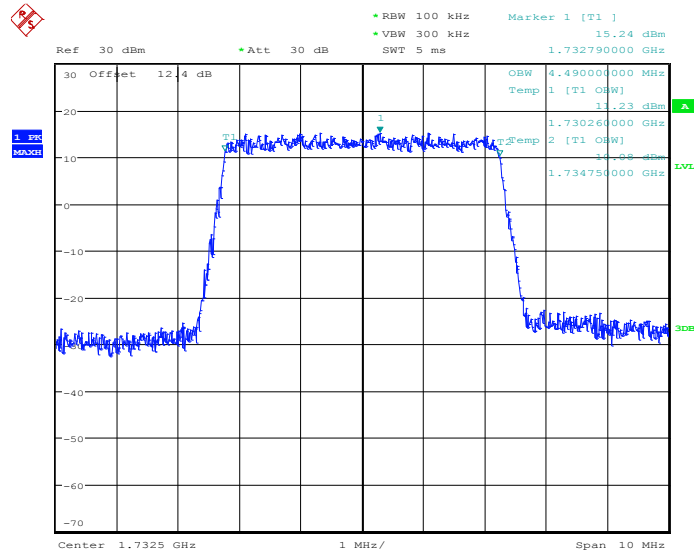
26dB Bandwidth Plot on Channel 19975



Date: 7.MAY.2014 15:33:53

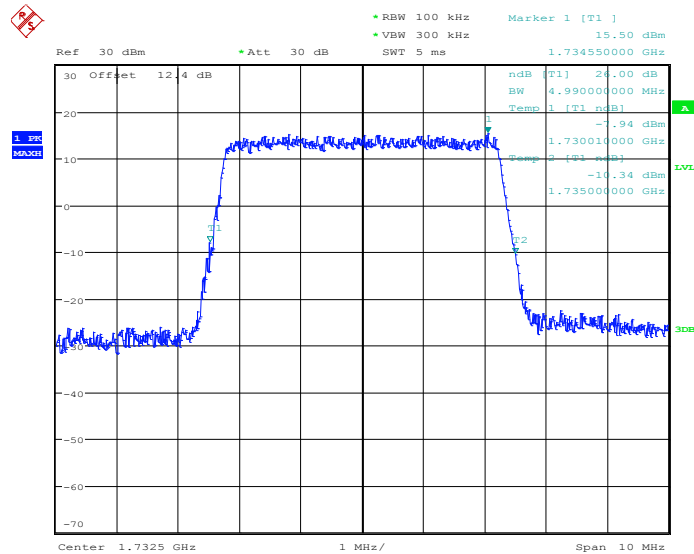


99% Occupied Bandwidth Plot on Channel 20175

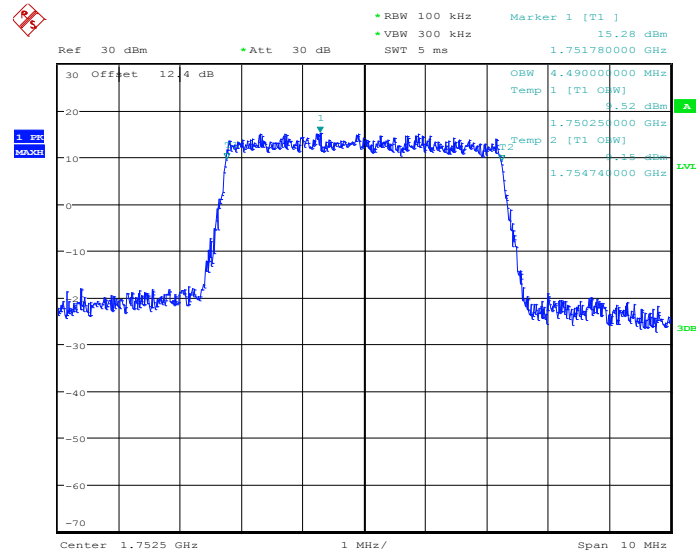


Date: 7.MAY.2014 15:39:36

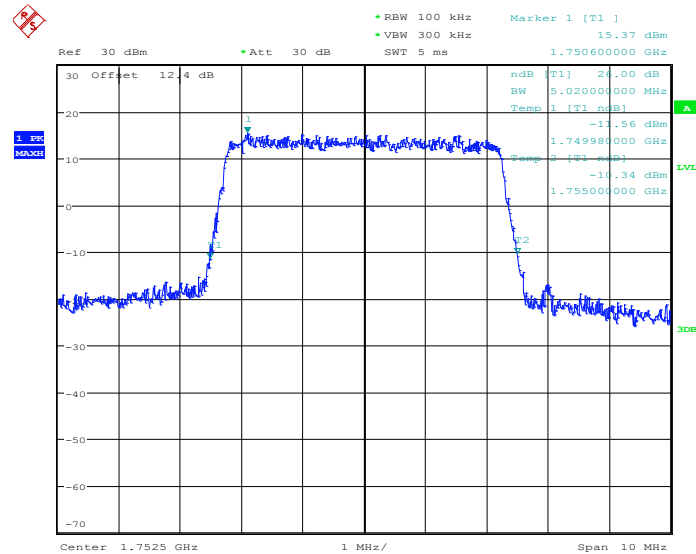
26dB Bandwidth Plot on Channel 20175



Date: 7.MAY.2014 15:40:09

99% Occupied Bandwidth Plot on Channel 20375


Date: 7.MAY.2014 15:42:43

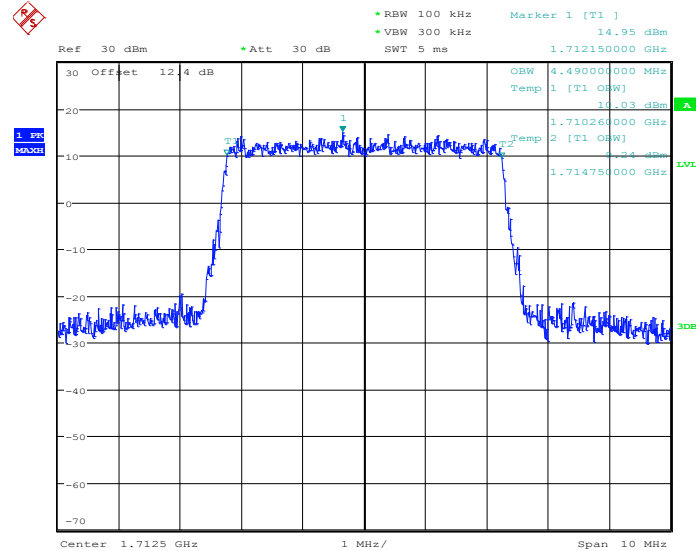
26dB Bandwidth Plot on Channel 20375


Date: 7.MAY.2014 15:43:16



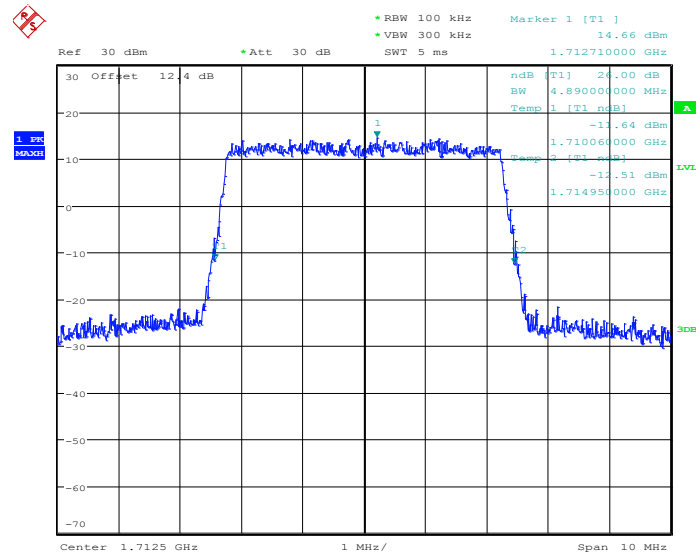
Band :	LTE Band 4	BW / Mod. :	5MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 19975



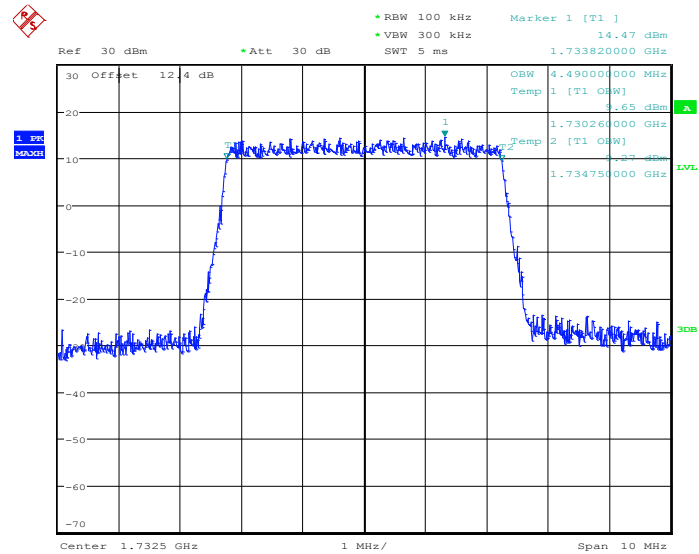
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26dB Bandwidth Plot on Channel 19975



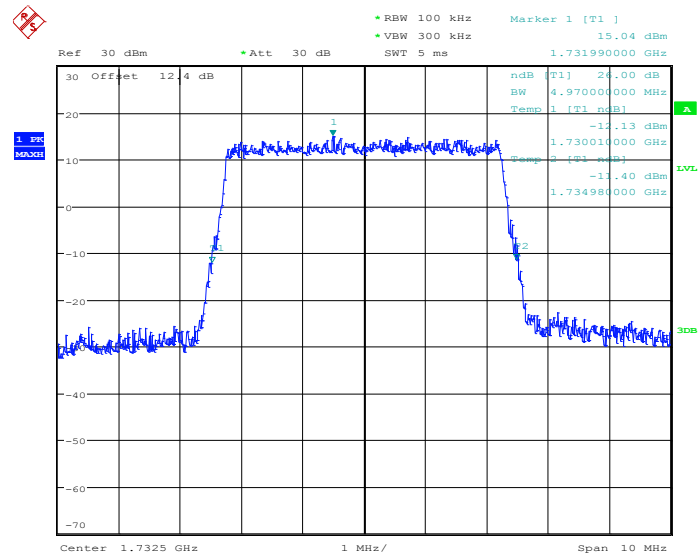
Date: 7.MAY.2014 15:34:10

99% Occupied Bandwidth Plot on Channel 20175

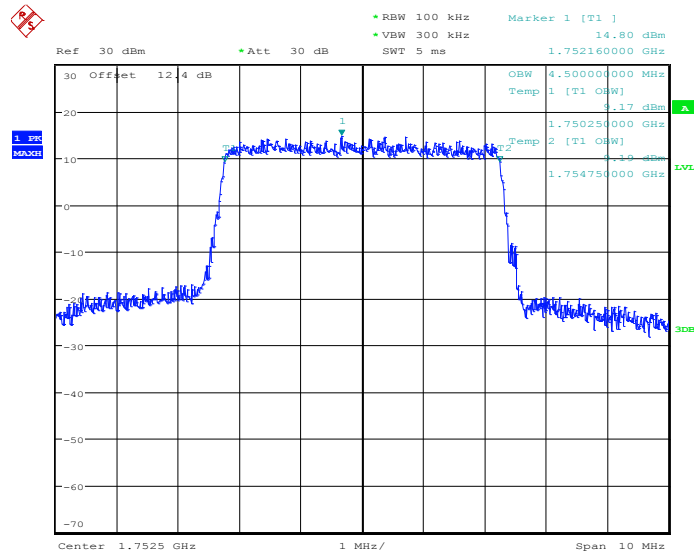


Date: 7.MAY.2014 15:39:51

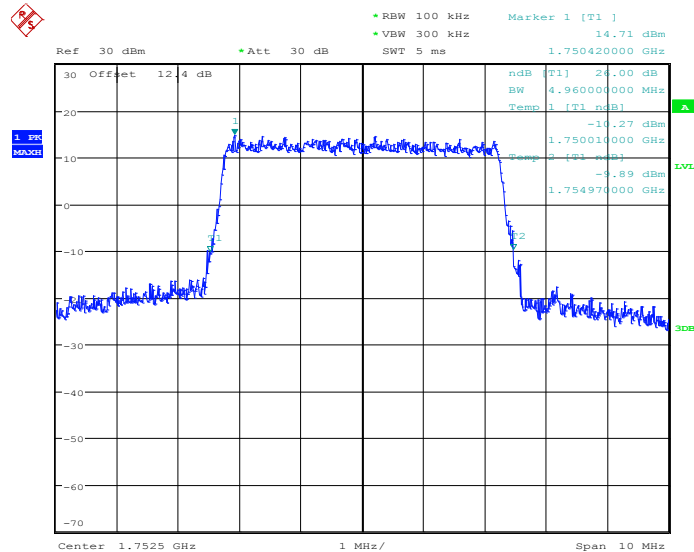
26dB Bandwidth Plot on Channel 20175



Date: 7.MAY.2014 15:40:27

99% Occupied Bandwidth Plot on Channel 20375


Date: 7.MAY.2014 15:42:59

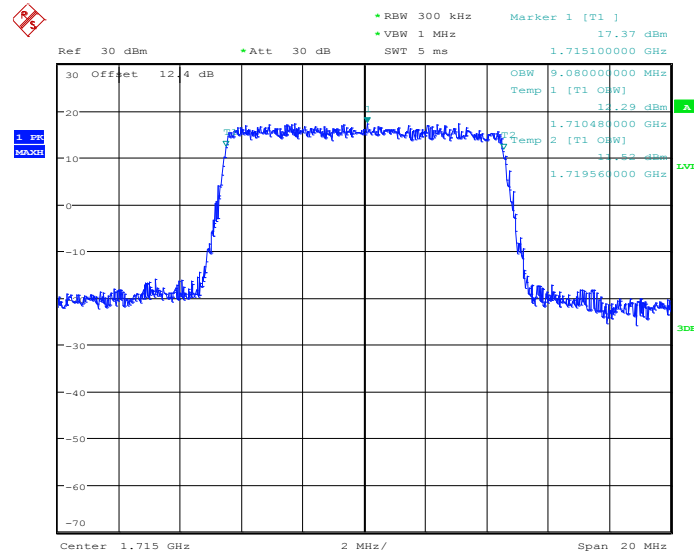
26dB Bandwidth Plot on Channel 20375


Date: 7.MAY.2014 15:43:34



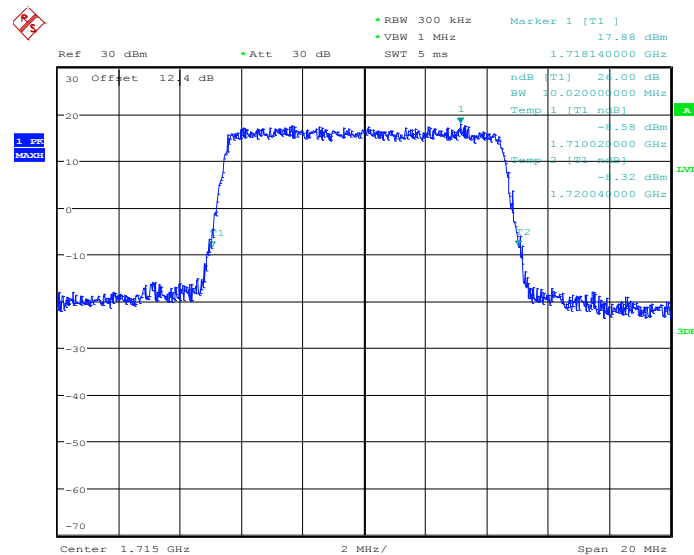
Band :	LTE Band 4	BW / Mod. :	10MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 20000

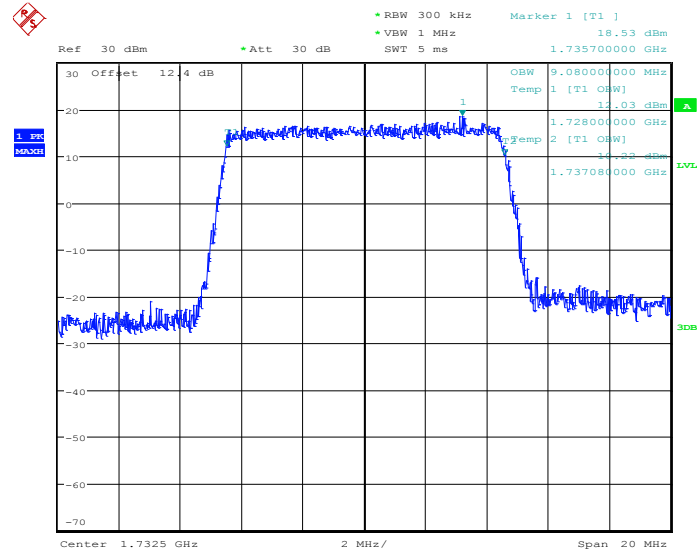


Date: 7.MAY.2014 15:49:03

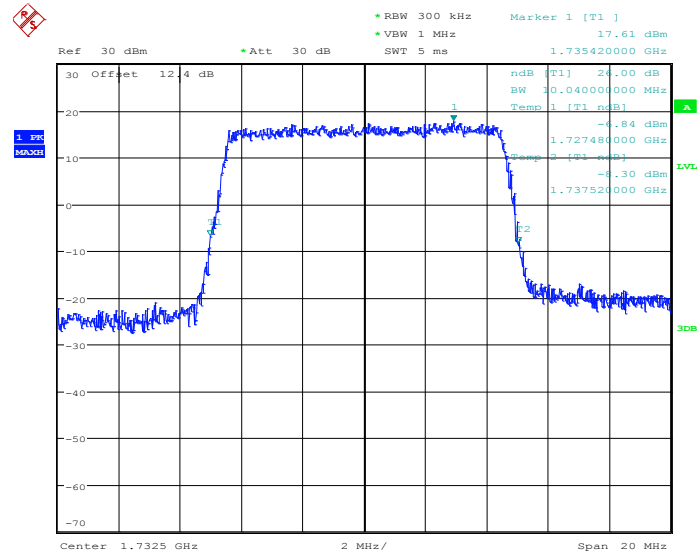
26dB Bandwidth Plot on Channel 20000



Date: 7.MAY.2014 15:49:37

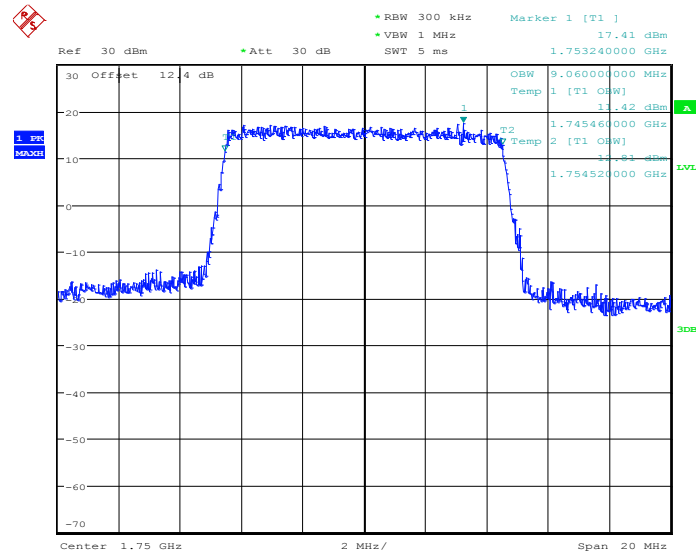
99% Occupied Bandwidth Plot on Channel 20175


Date: 7.MAY.2014 15:55:19

26dB Bandwidth Plot on Channel 20175


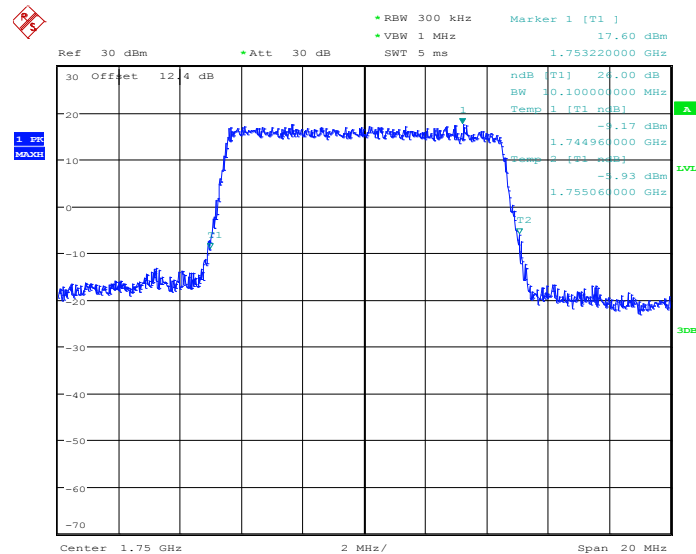
Date: 7.MAY.2014 15:55:53

99% Occupied Bandwidth Plot on Channel 20350



Date: 7.MAY.2014 15:58:27

26dB Bandwidth Plot on Channel 20350

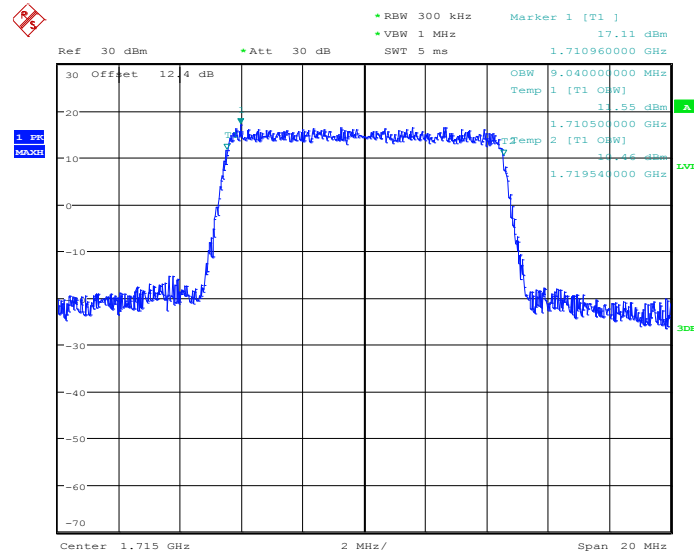


Date: 7.MAY.2014 15:59:00



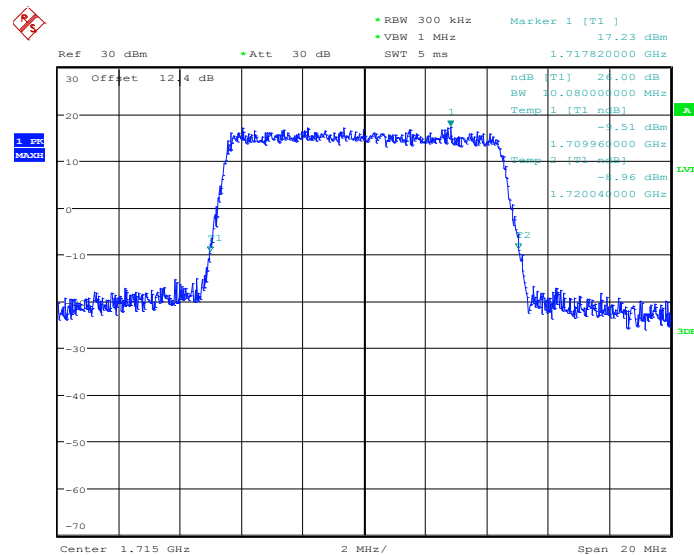
Band :	LTE Band 4	BW / Mod. :	10MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 200000



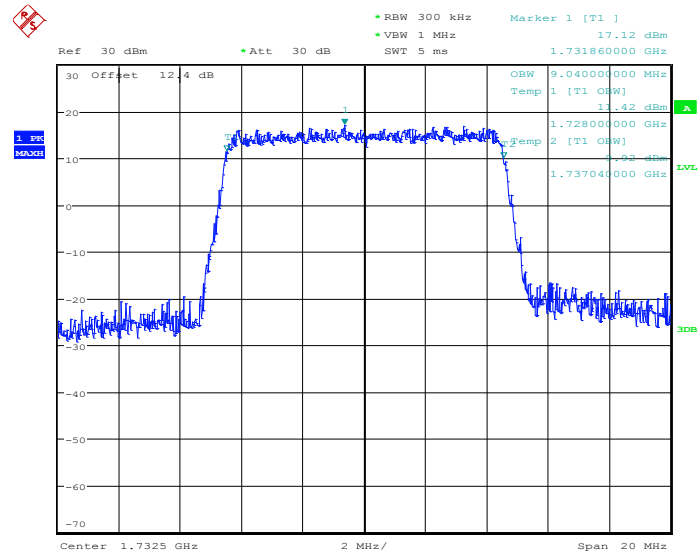
Date: 7.MAY.2014 15:49:19

26dB Bandwidth Plot on Channel 20000



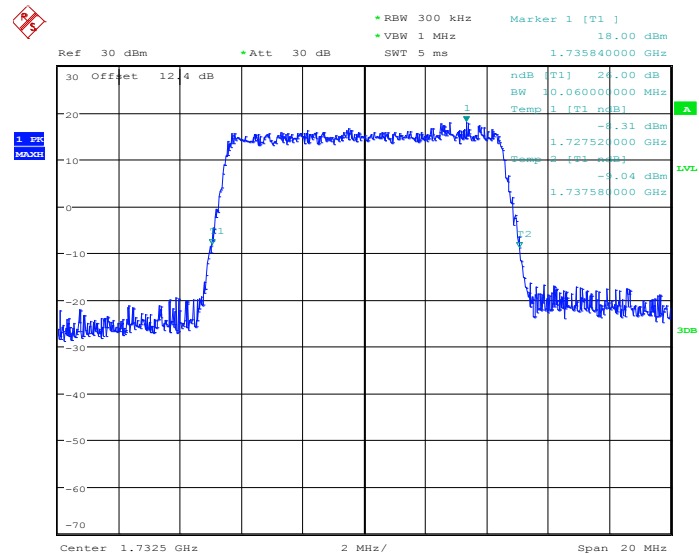
Date: 7.MAY.2014 15:49:55

99% Occupied Bandwidth Plot on Channel 20175

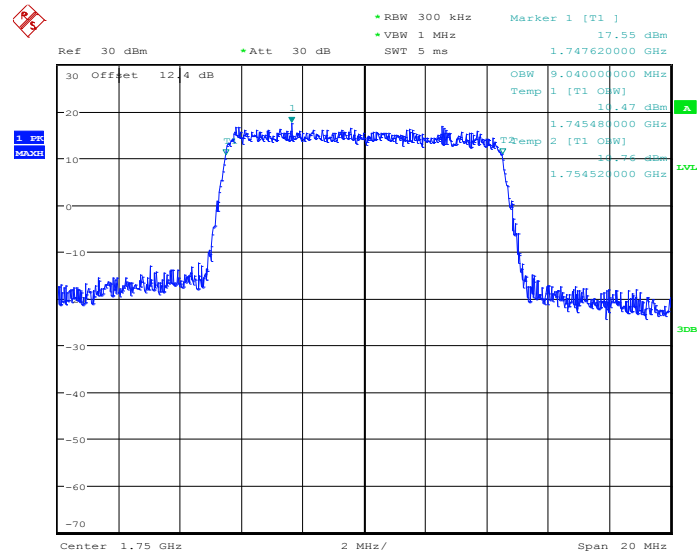


Date: 7.MAY.2014 15:55:35

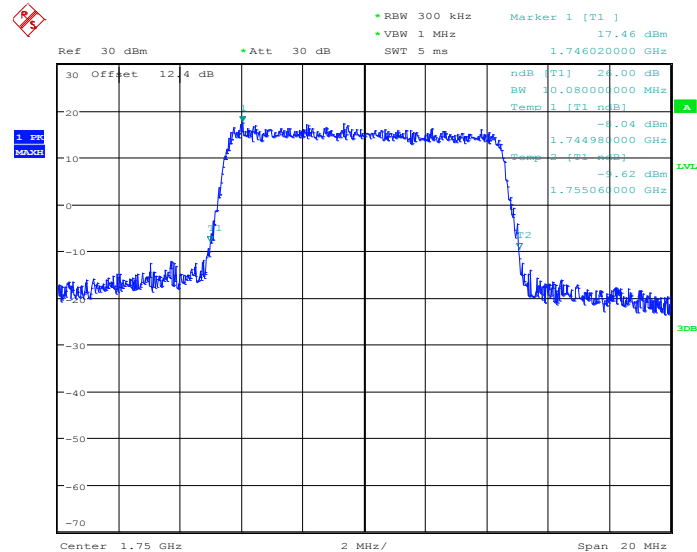
26dB Bandwidth Plot on Channel 20175



Date: 7.MAY.2014 15:56:10

99% Occupied Bandwidth Plot on Channel 20350


Date: 7.MAY.2014 15:58:43

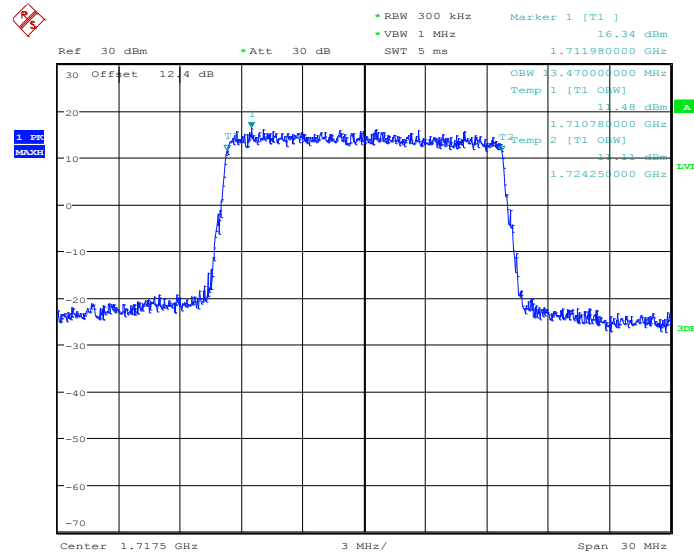
26dB Bandwidth Plot on Channel 20350


Date: 7.MAY.2014 15:59:18



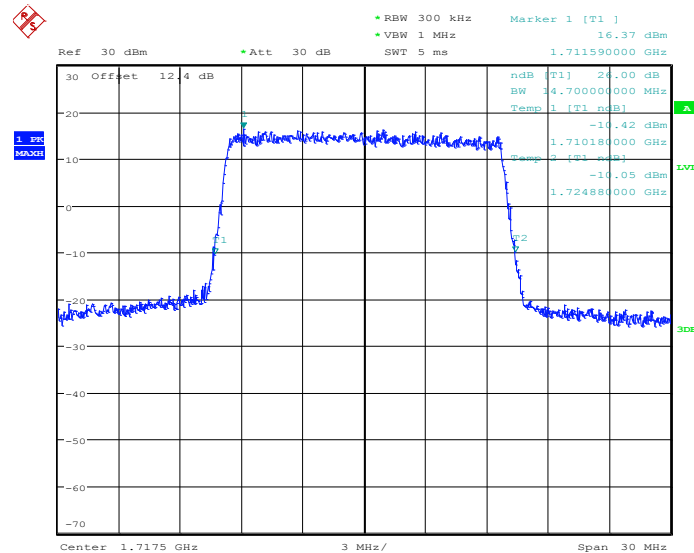
Band :	LTE Band 4	BW / Mod. :	15MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 20025



Date: 7.MAY.2014 16:04:47

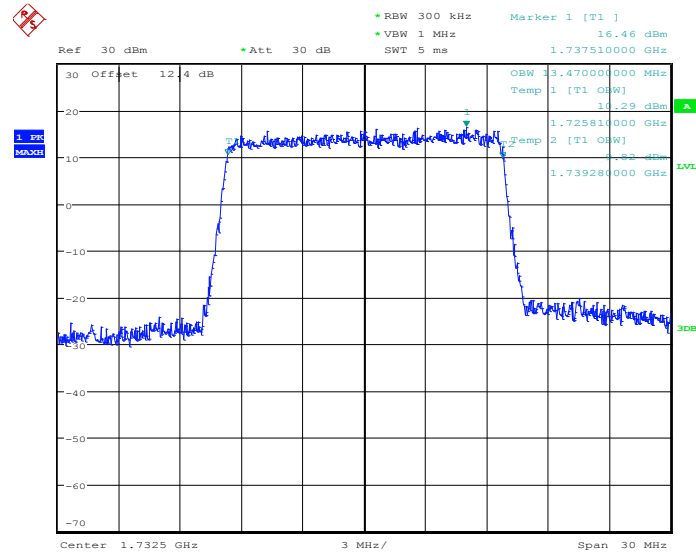
26dB Bandwidth Plot on Channel 20025



Date: 7.MAY.2014 16:05:20

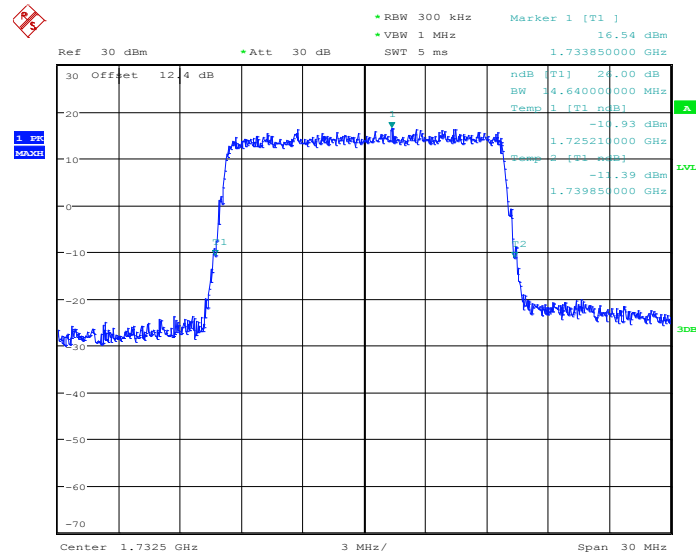


99% Occupied Bandwidth Plot on Channel 20175

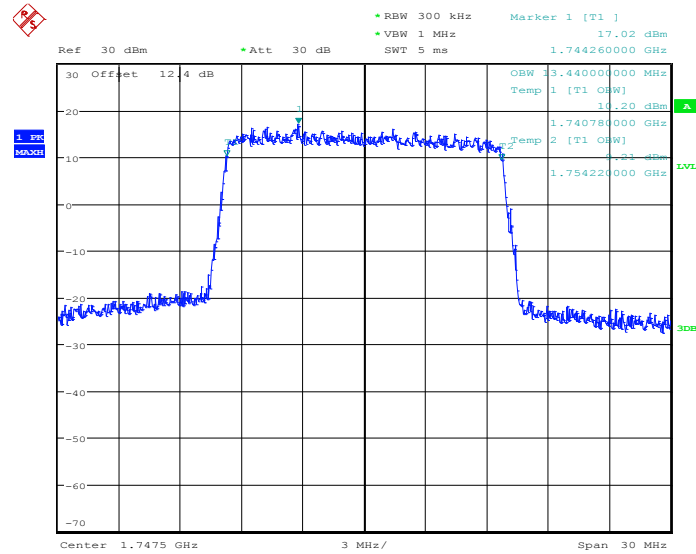


Date: 7.MAY.2014 16:11:03

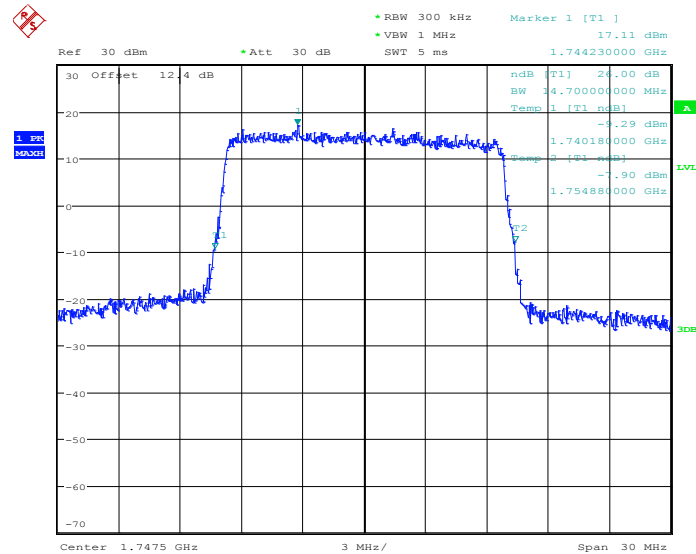
26dB Bandwidth Plot on Channel 20175



Date: 7.MAY.2014 16:11:36

99% Occupied Bandwidth Plot on Channel 20325


Date: 7.MAY.2014 16:14:11

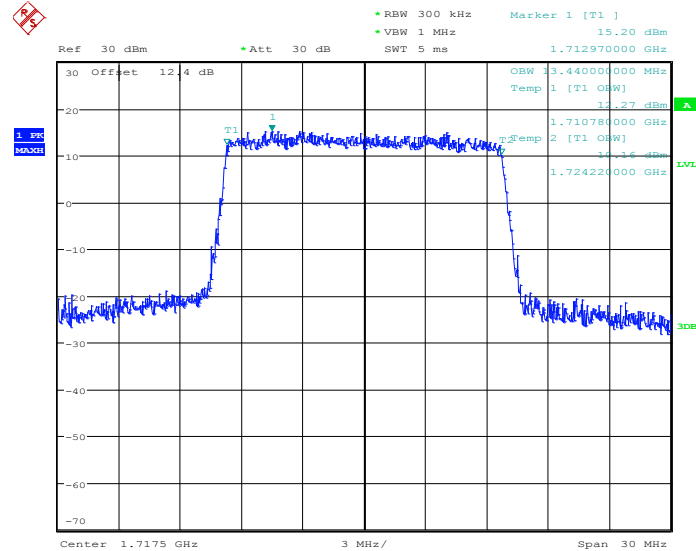
26dB Bandwidth Plot on Channel 20325


Date: 7.MAY.2014 16:14:44



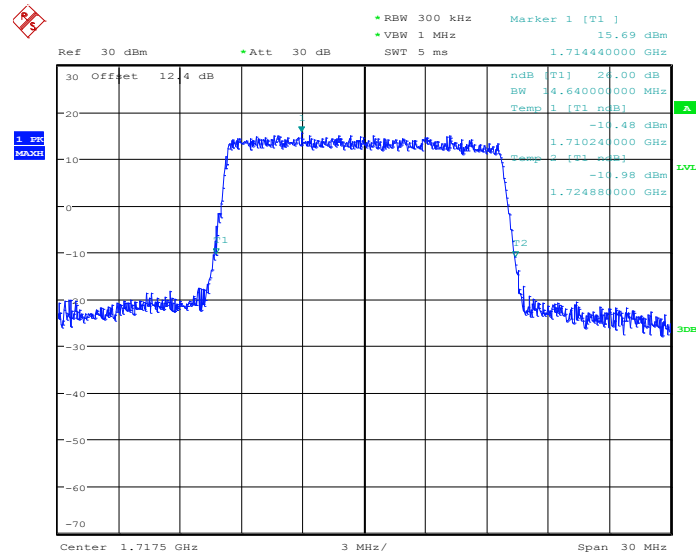
Band :	LTE Band 4	BW / Mod. :	15MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 2025



Date: 7.MAY.2014 16:05:03

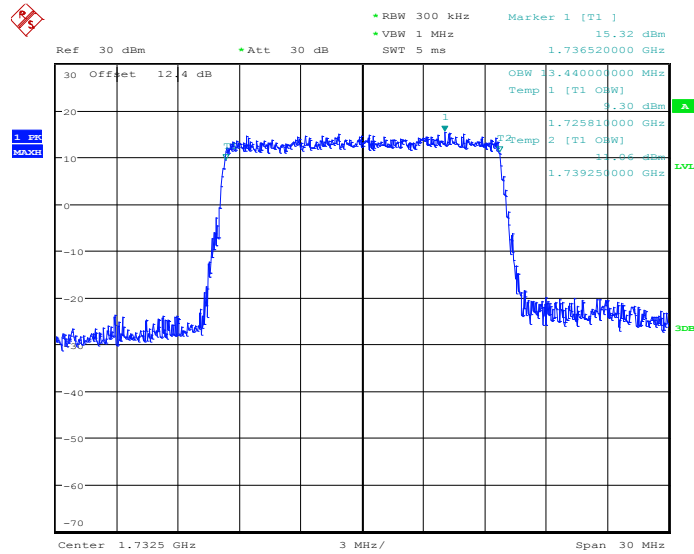
26dB Bandwidth Plot on Channel 2025



Date: 7.MAY.2014 16:05:38

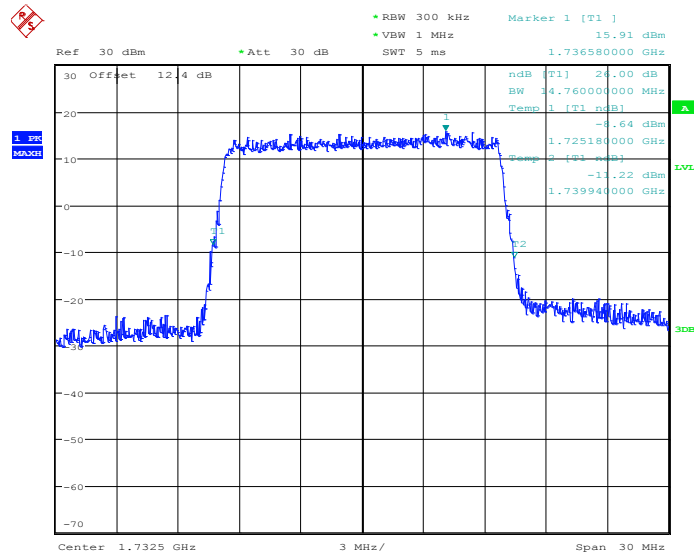


99% Occupied Bandwidth Plot on Channel 20175

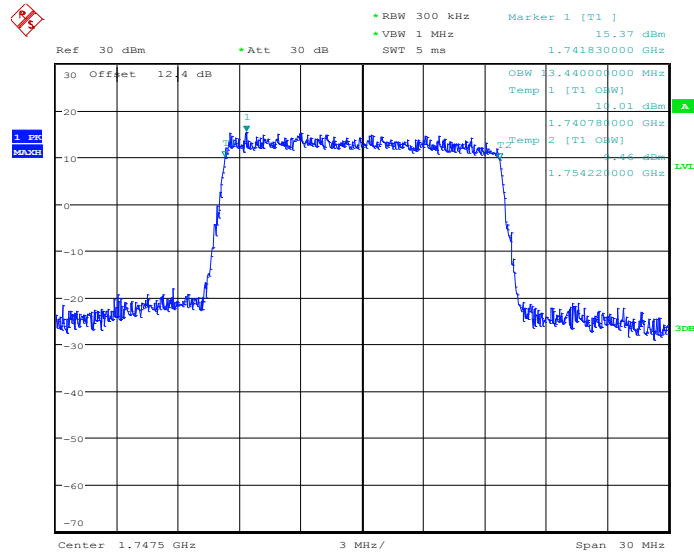


Date: 7.MAY.2014 16:11:19

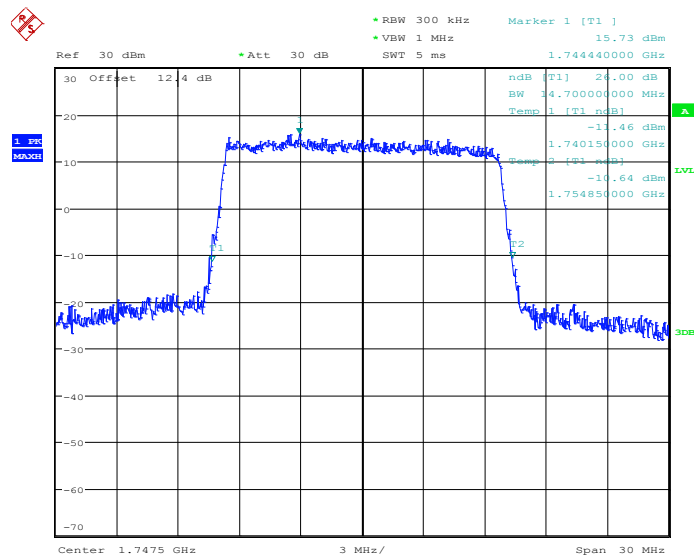
26dB Bandwidth Plot on Channel 20175



Date: 7.MAY.2014 16:11:54

99% Occupied Bandwidth Plot on Channel 20325


Date: 7.MAY.2014 16:14:27

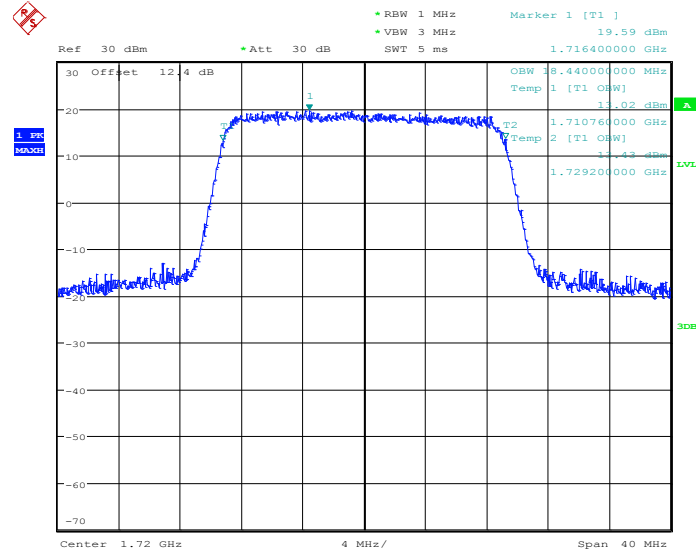
26dB Bandwidth Plot on Channel 20325


Date: 7.MAY.2014 16:15:02



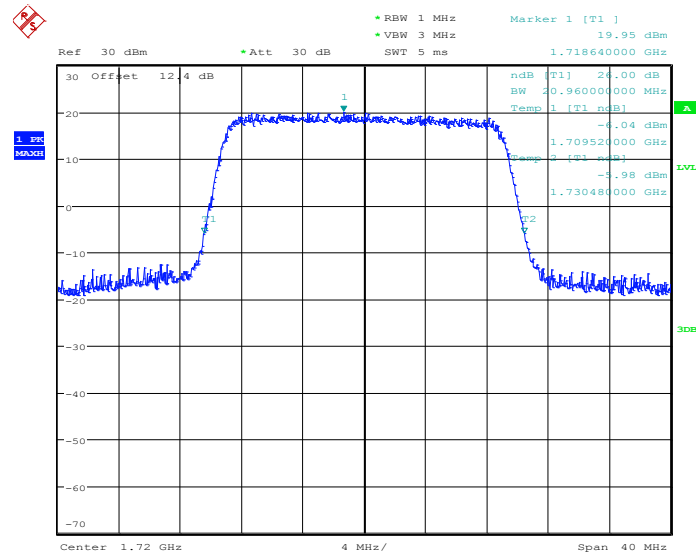
Band :	LTE Band 4	BW / Mod. :	20MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 20050

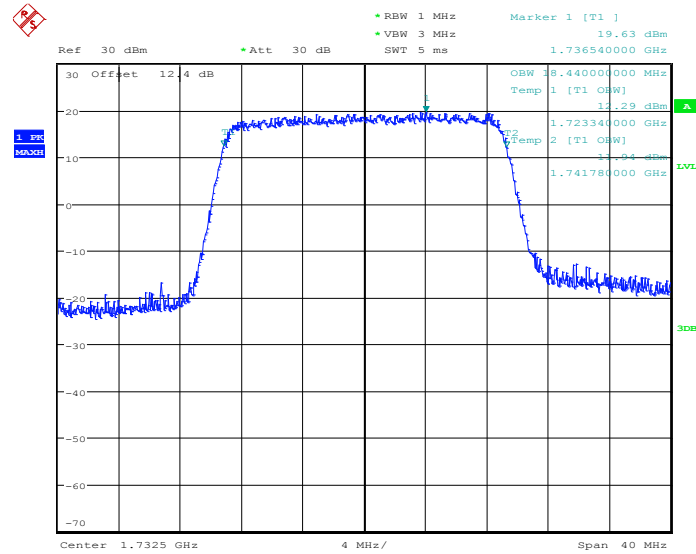


Date: 7.MAY.2014 16:20:31

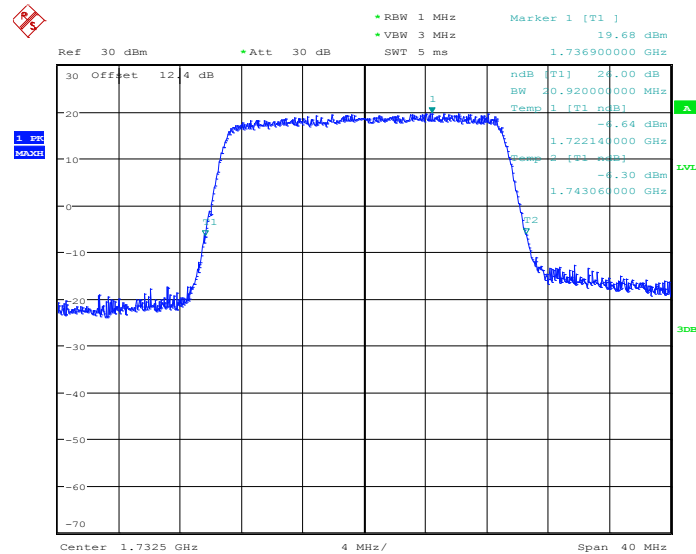
26dB Bandwidth Plot on Channel 20050



Date: 7.MAY.2014 16:21:05

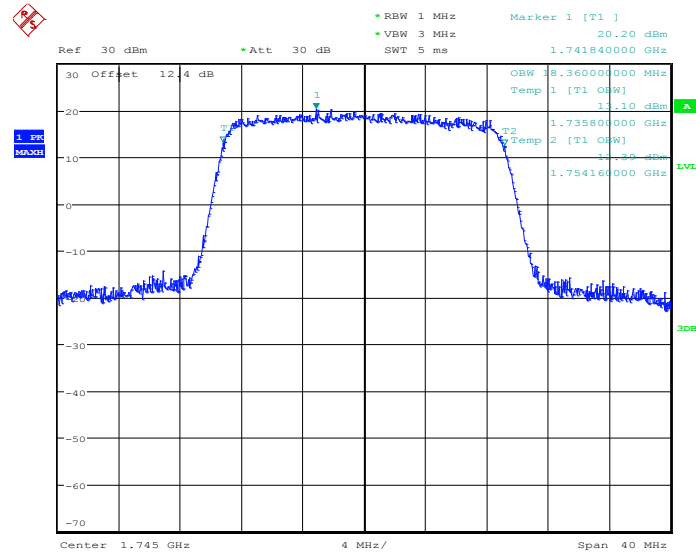
99% Occupied Bandwidth Plot on Channel 20175


Date: 7.MAY.2014 16:26:47

26dB Bandwidth Plot on Channel 20175


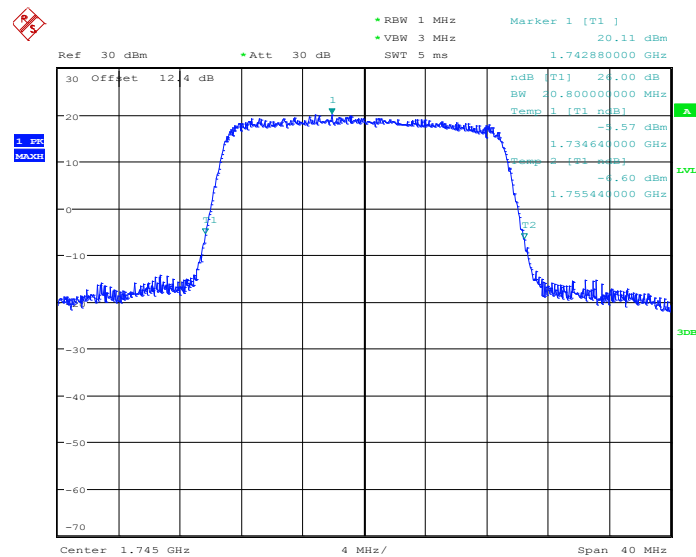
Date: 7.MAY.2014 16:27:21

99% Occupied Bandwidth Plot on Channel 20300



Date: 7.MAY.2014 16:29:55

26dB Bandwidth Plot on Channel 20300

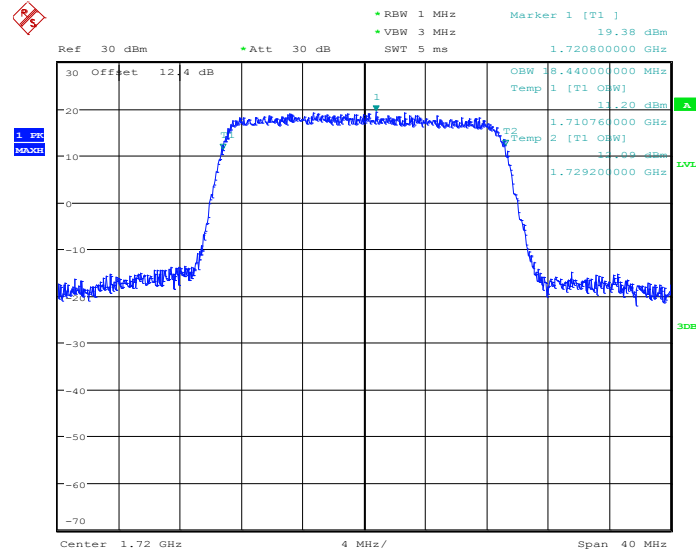


Date: 7.MAY.2014 16:30:28



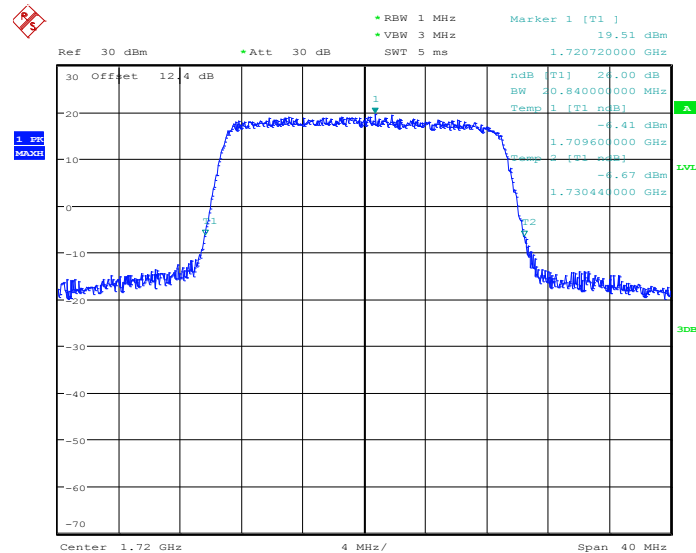
Band :	LTE Band 4	BW / Mod. :	20MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 20050



Date: 7.MAY.2014 16:20:47

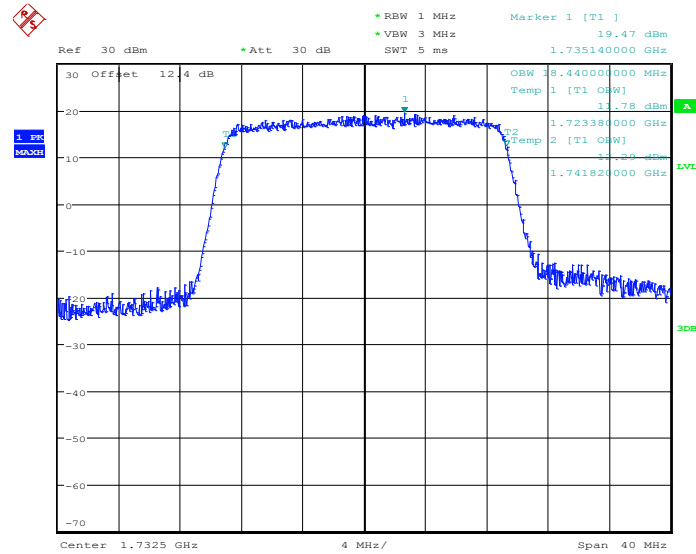
26dB Bandwidth Plot on Channel 20050



Date: 7.MAY.2014 16:21:22

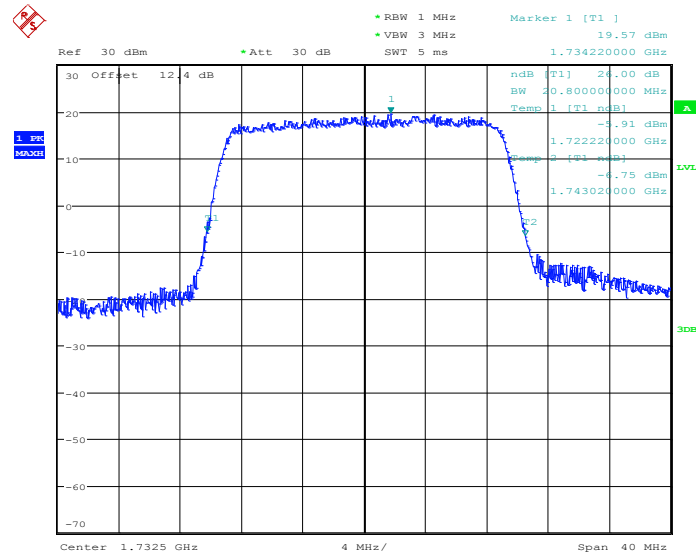


99% Occupied Bandwidth Plot on Channel 20175

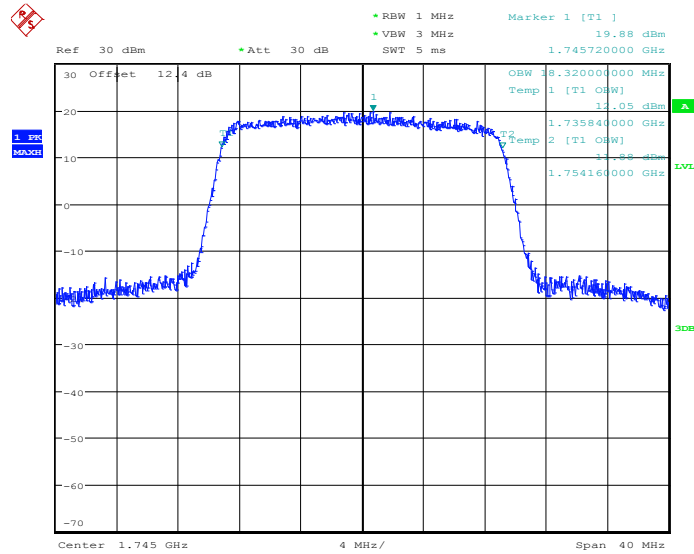


Date: 7.MAY.2014 16:27:03

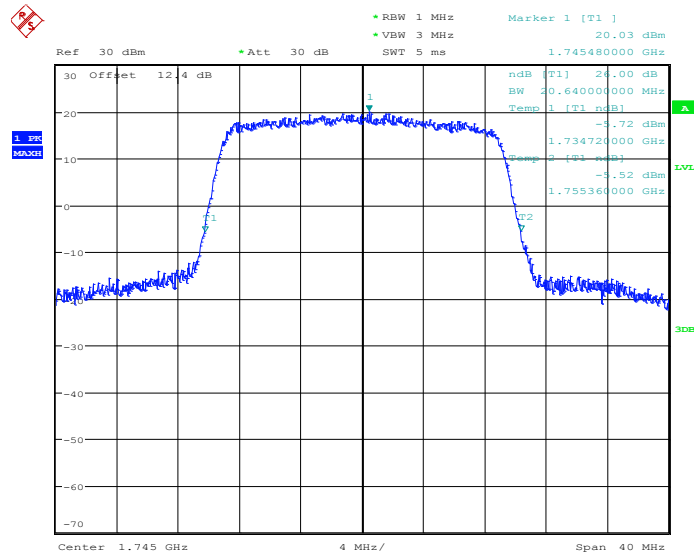
26dB Bandwidth Plot on Channel 20175



Date: 7.MAY.2014 16:27:38

99% Occupied Bandwidth Plot on Channel 20300


Date: 7.MAY.2014 16:30:11

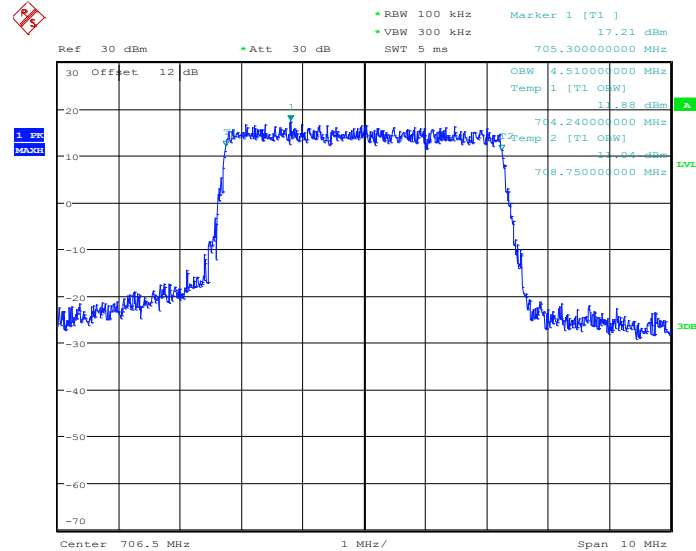
26dB Bandwidth Plot on Channel 20300


Date: 7.MAY.2014 16:30:46



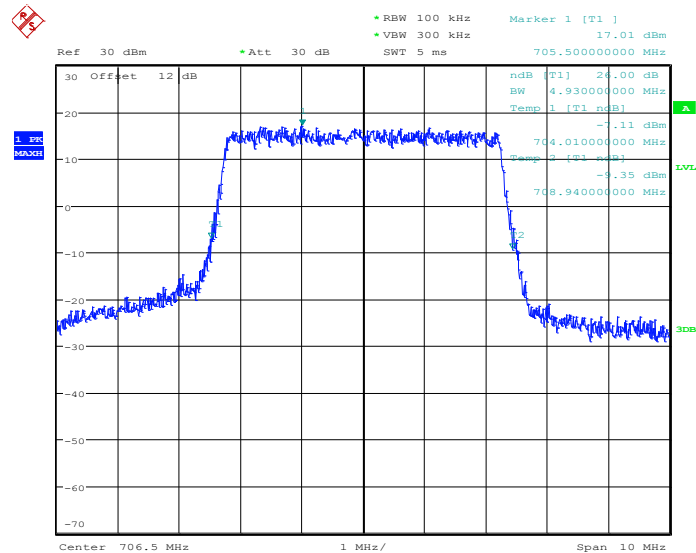
Band :	LTE Band 17	BW / Mod. :	5MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 23755



Date: 8.MAY.2014 14:32:12

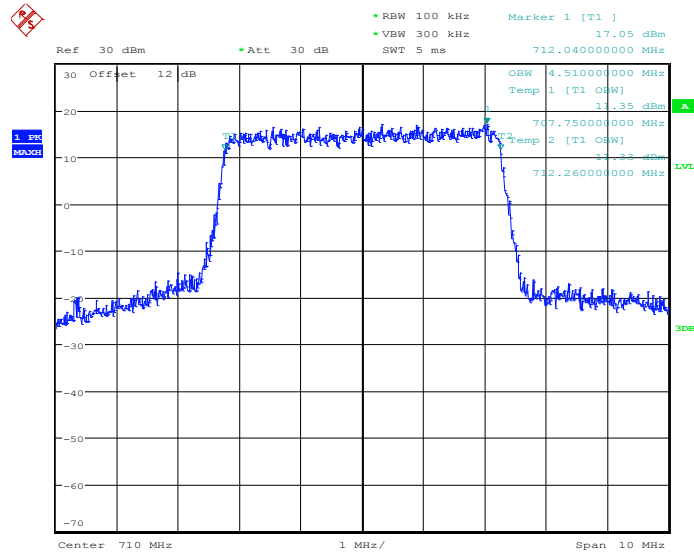
26dB Bandwidth Plot on Channel 23755



Date: 8.MAY.2014 13:58:24

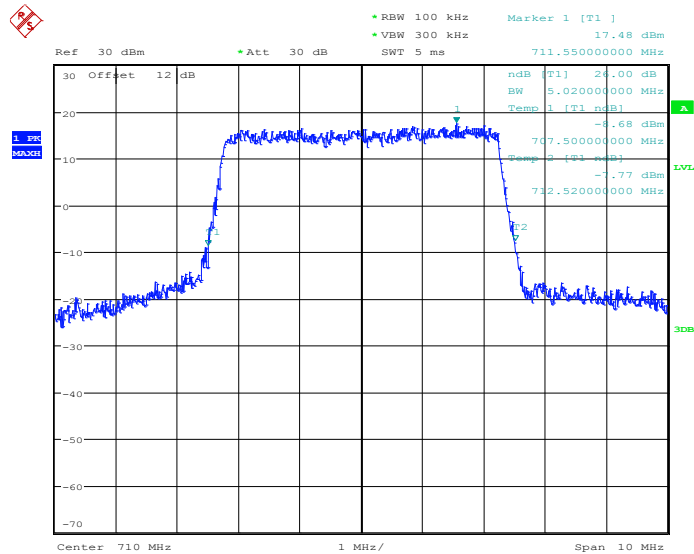


99% Occupied Bandwidth Plot on Channel 23790



Date: 8.MAY.2014 14:04:05

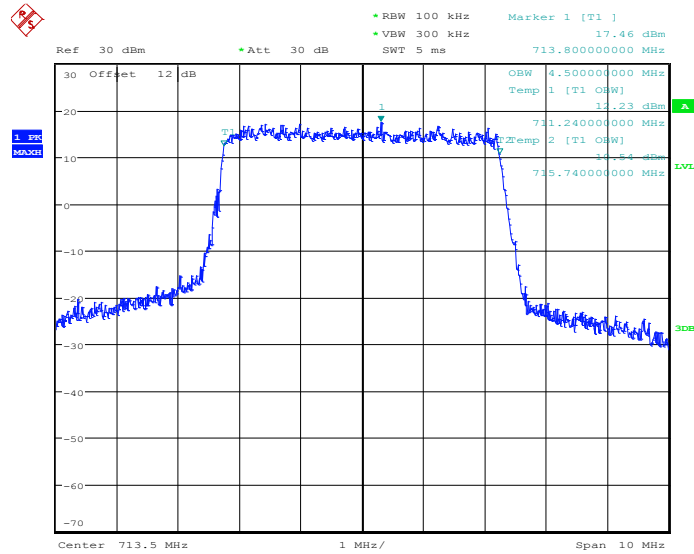
26dB Bandwidth Plot on Channel 23790



Date: 8.MAY.2014 14:04:39

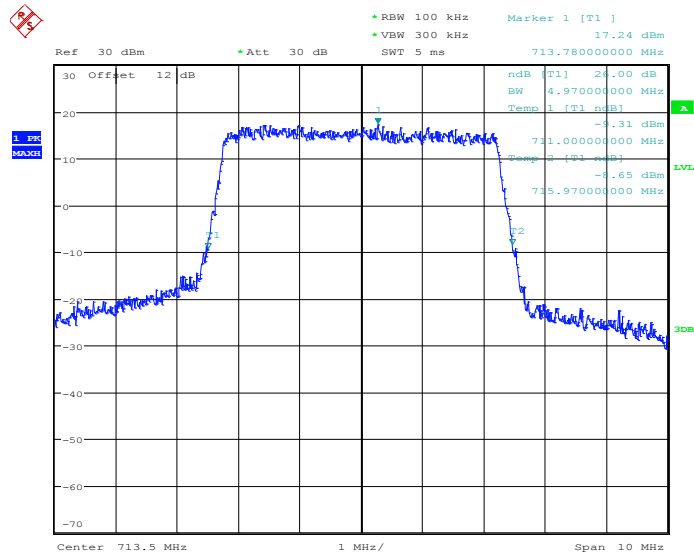


99% Occupied Bandwidth Plot on Channel 23825



Date: 8.MAY.2014 14:07:12

26dB Bandwidth Plot on Channel 23825

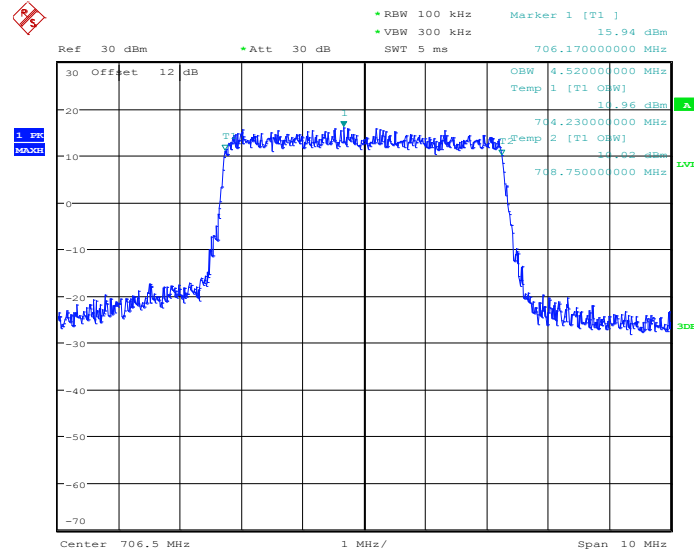


Date: 8.MAY.2014 14:07:46



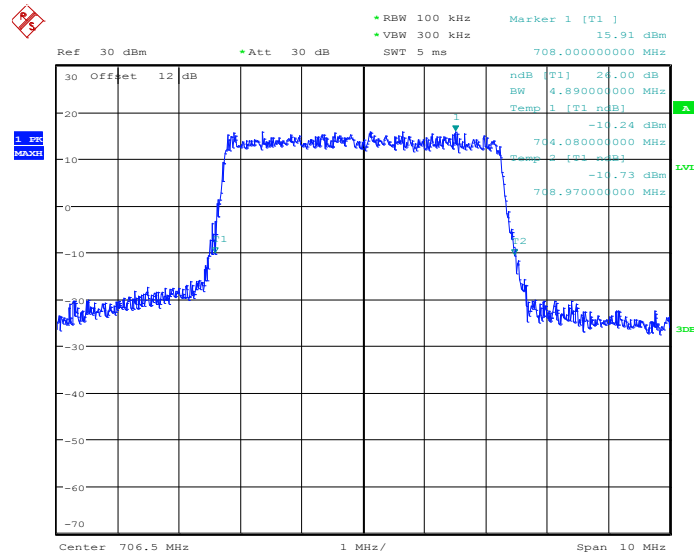
Band :	LTE Band 17	BW / Mod. :	5MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 23755



Date: 8.MAY.2014 13:58:07

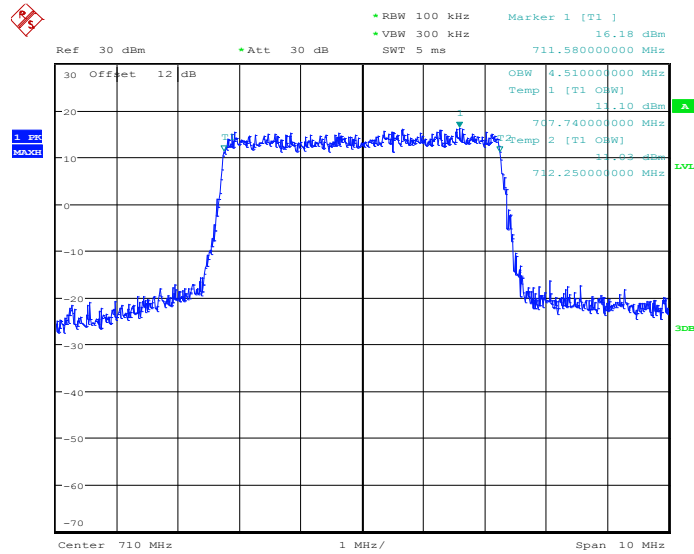
26dB Bandwidth Plot on Channel 23755



Date: 8.MAY.2014 13:58:42

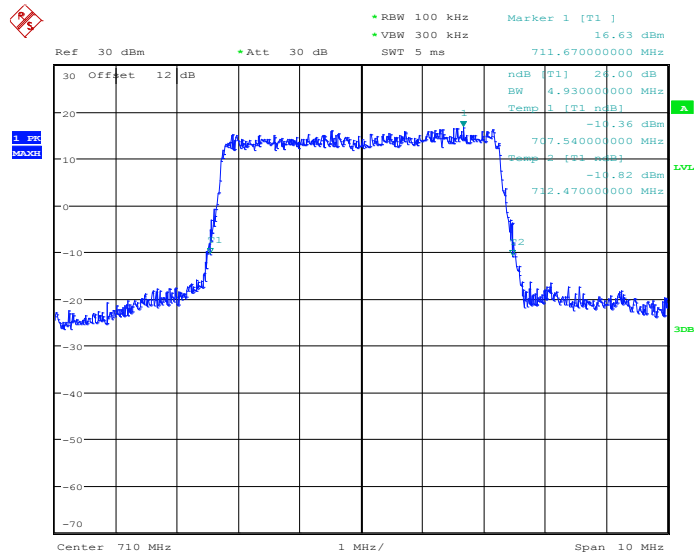


99% Occupied Bandwidth Plot on Channel 23790



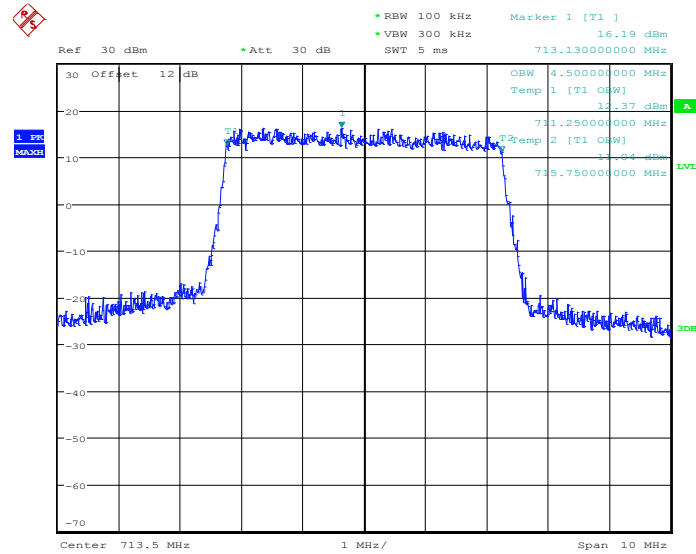
Date: 8.MAY.2014 14:04:21

26dB Bandwidth Plot on Channel 23790



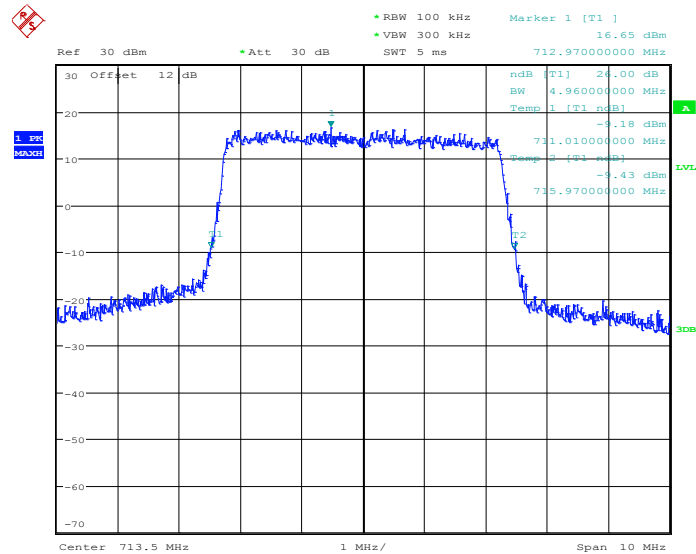
Date: 8.MAY.2014 14:04:57

99% Occupied Bandwidth Plot on Channel 23825



Date: 8.MAY.2014 14:07:28

26dB Bandwidth Plot on Channel 23825

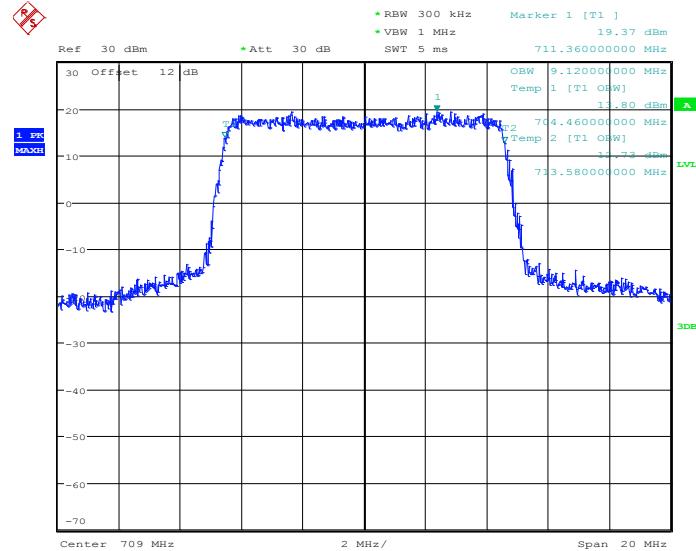


Date: 8.MAY.2014 14:08:04



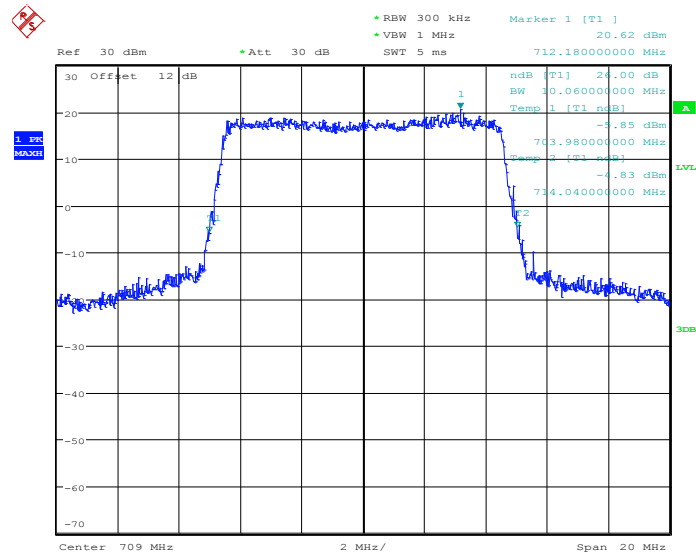
Band :	LTE Band 17	BW / Mod. :	10MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 23780



Date: 8.MAY.2014 14:13:26

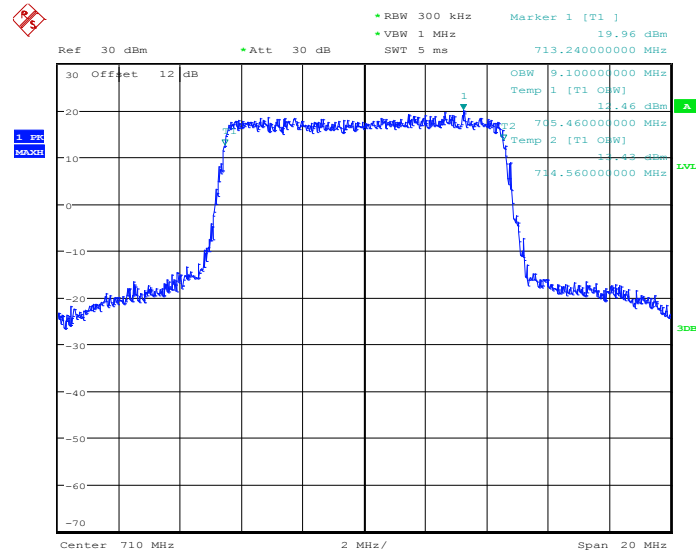
26dB Bandwidth Plot on Channel 23780



Date: 8.MAY.2014 14:14:00

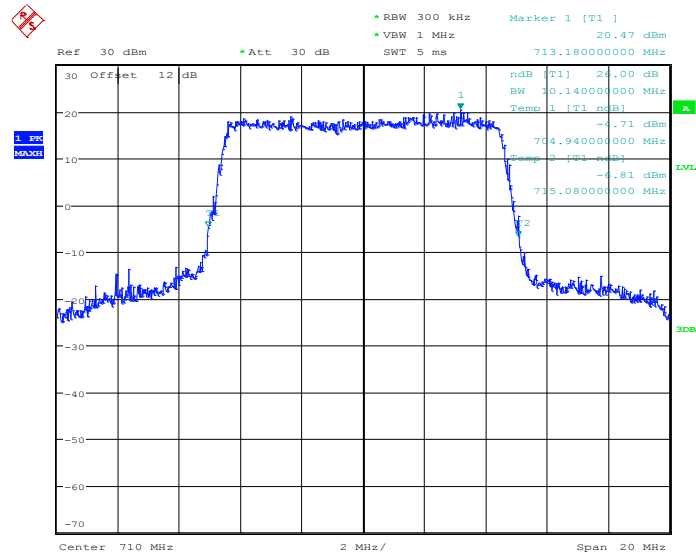


99% Occupied Bandwidth Plot on Channel 23790



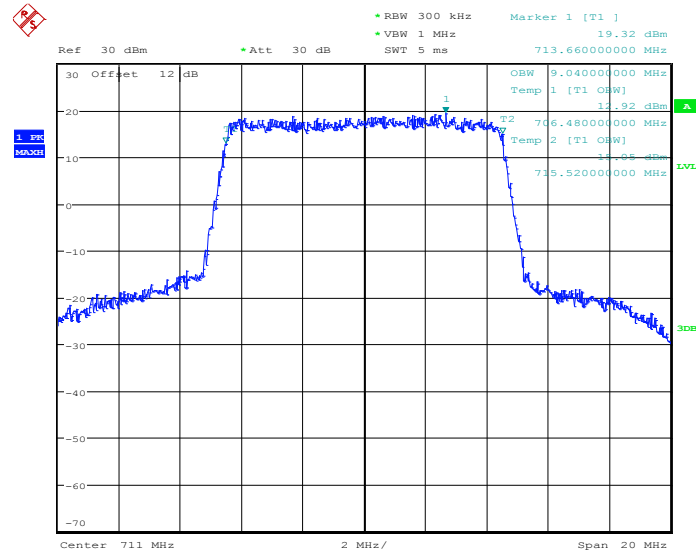
Date: 8.MAY.2014 14:19:40

26dB Bandwidth Plot on Channel 23790



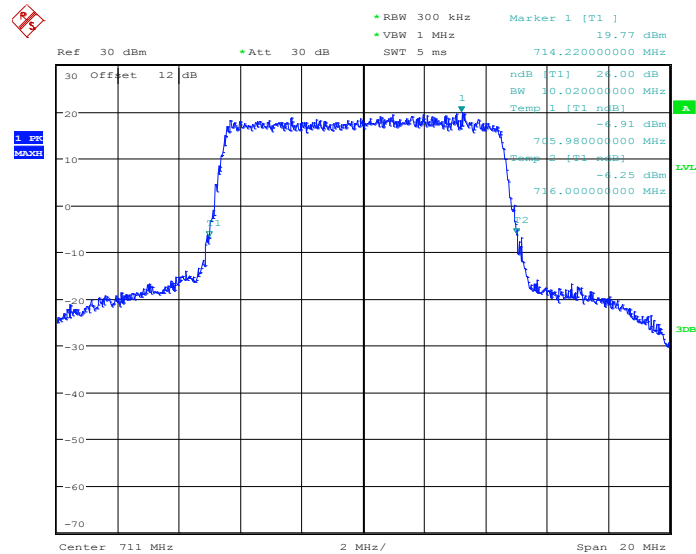
Date: 8.MAY.2014 14:20:16

99% Occupied Bandwidth Plot on Channel 23800



Date: 8.MAY.2014 14:22:50

26dB Bandwidth Plot on Channel 23800

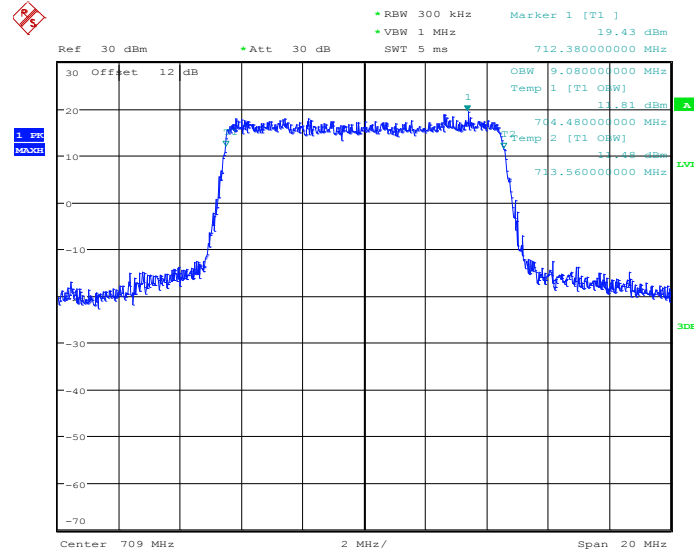


Date: 8.MAY.2014 14:23:24



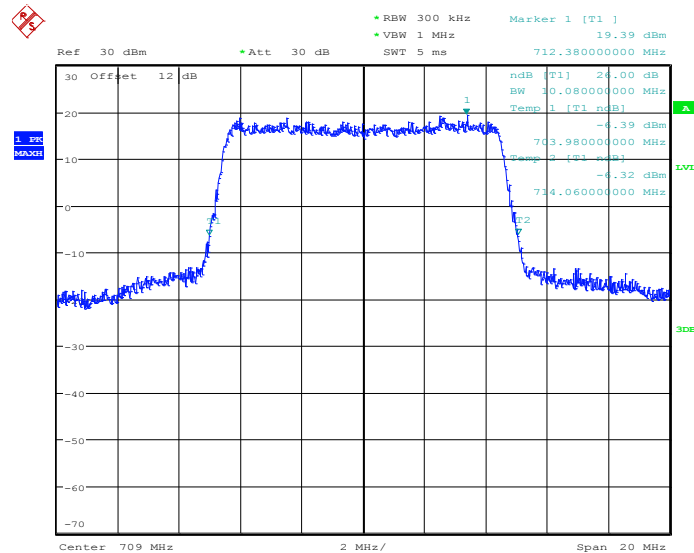
Band :	LTE Band 17	BW / Mod. :	10MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 23780



Date: 8.MAY.2014 14:13:42

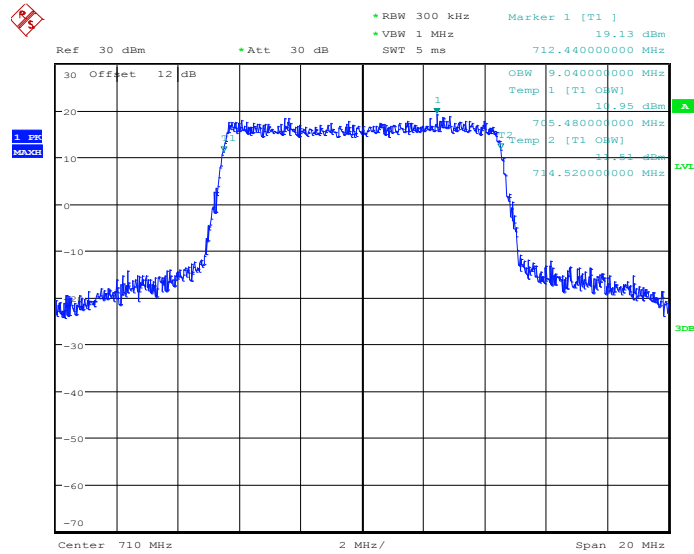
26dB Bandwidth Plot on Channel 23780



Date: 8.MAY.2014 14:14:18

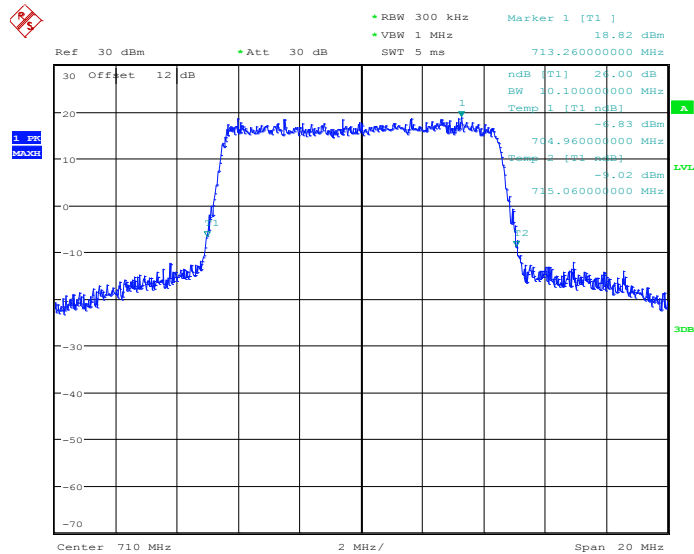


99% Occupied Bandwidth Plot on Channel 23790



Date: 8.MAY.2014 14:19:57

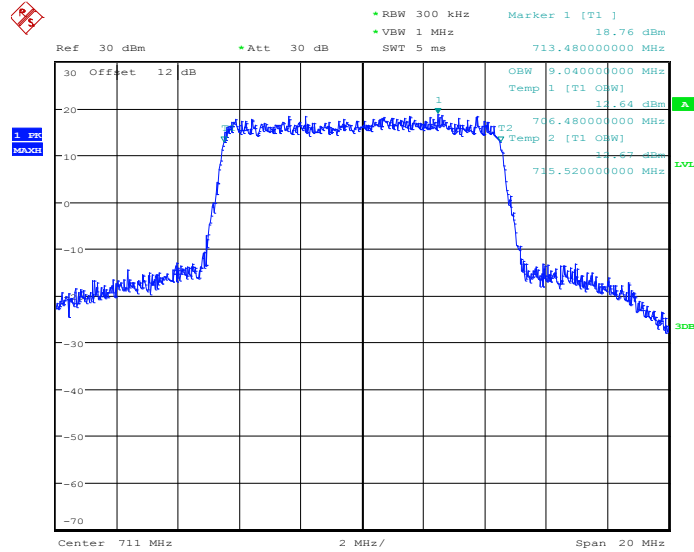
26dB Bandwidth Plot on Channel 23790



Date: 8.MAY.2014 14:20:34

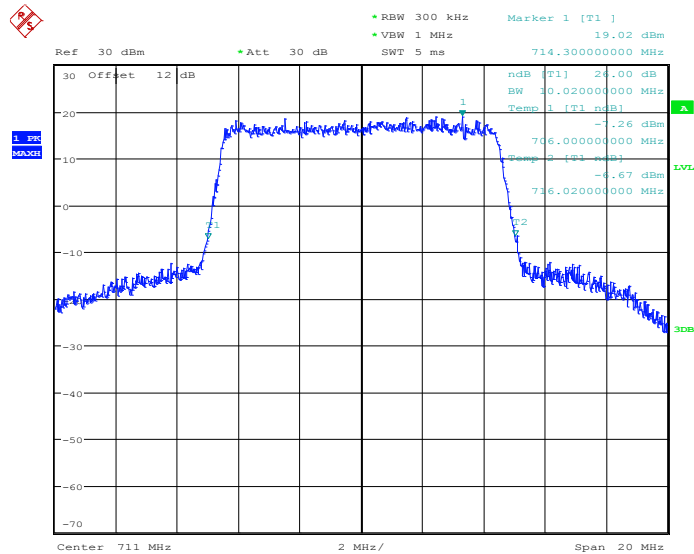


99% Occupied Bandwidth Plot on Channel 23800



Date: 8.MAY.2014 14:23:06

26dB Bandwidth Plot on Channel 23800

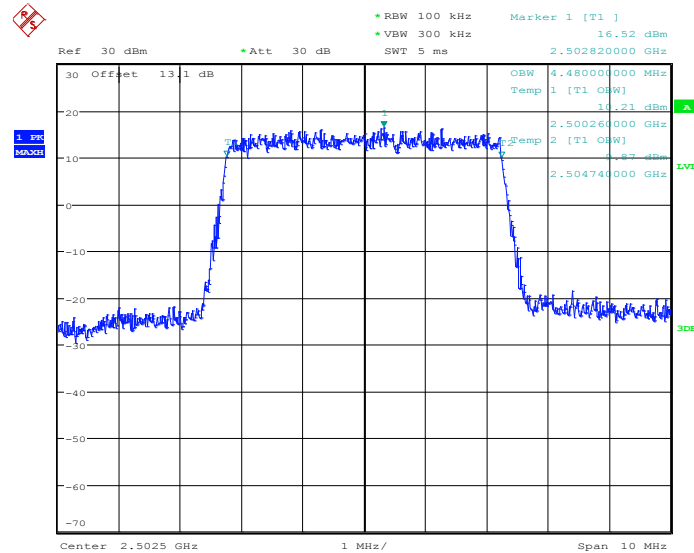


Date: 8.MAY.2014 14:23:41



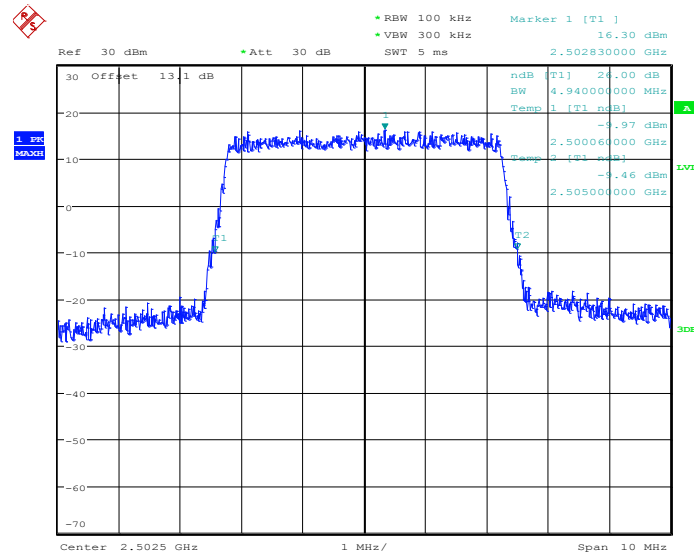
Band :	LTE Band 7	BW / Mod. :	5MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 20775



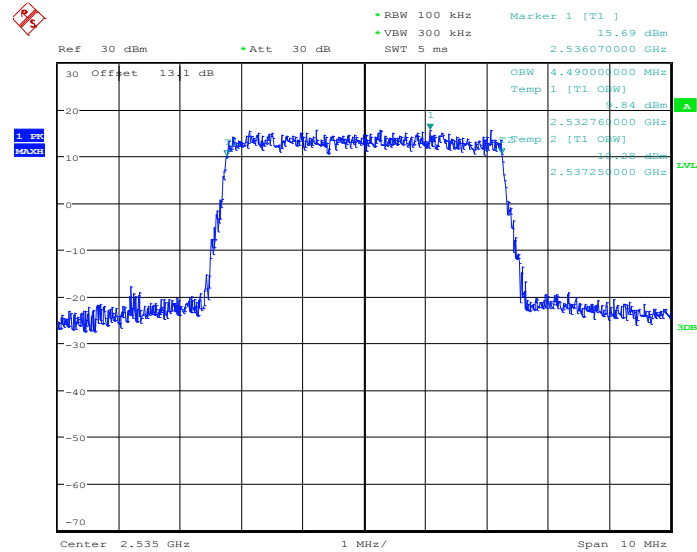
Date: 7.MAY.2014 16:41:55

26dB Bandwidth Plot on Channel 20775



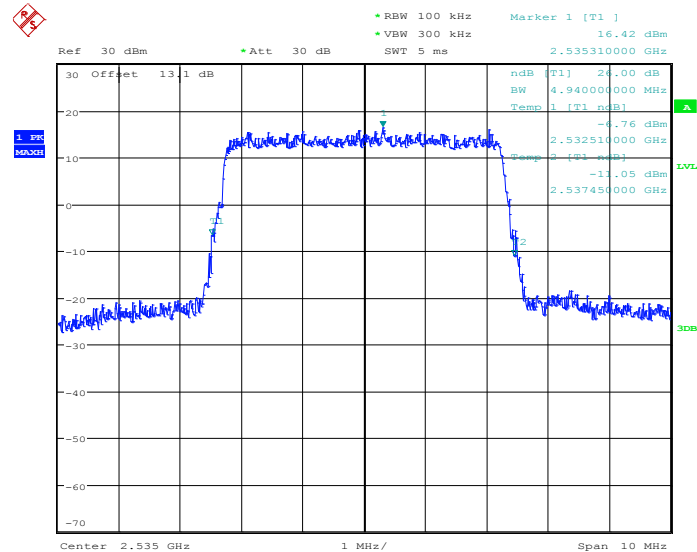
Date: 7.MAY.2014 16:42:29

99% Occupied Bandwidth Plot on Channel 21100



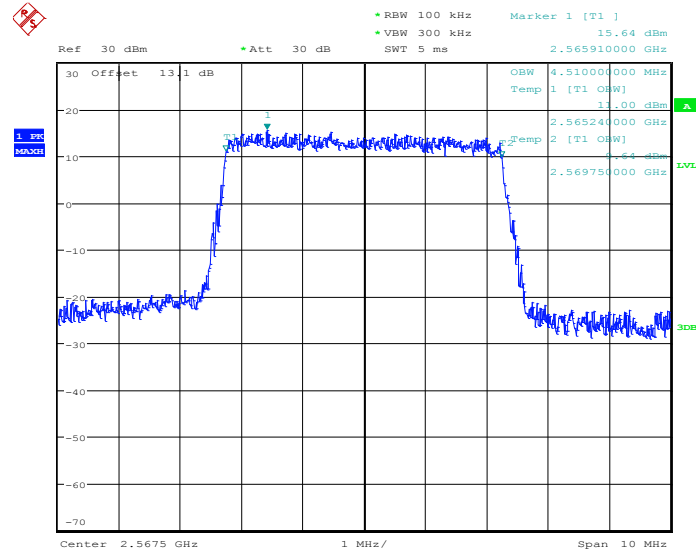
Date: 7.MAY.2014 16:48:18

26dB Bandwidth Plot on Channel 21100



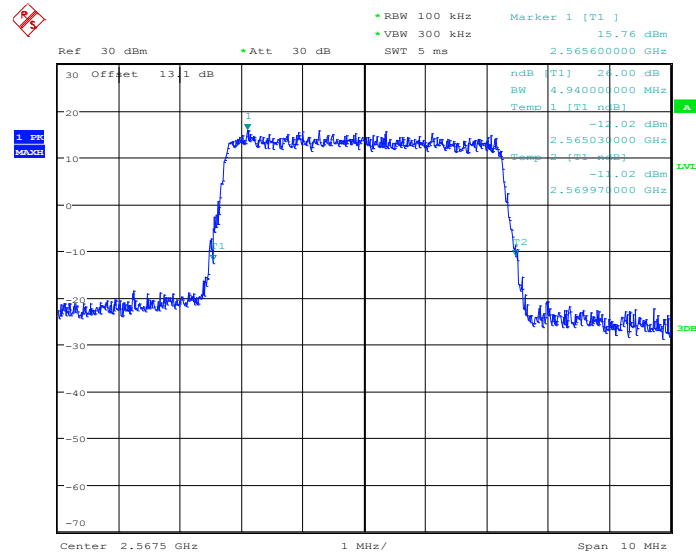
Date: 7.MAY.2014 16:48:51

99% Occupied Bandwidth Plot on Channel 21425



Date: 7.MAY.2014 16:51:31

26dB Bandwidth Plot on Channel 21425

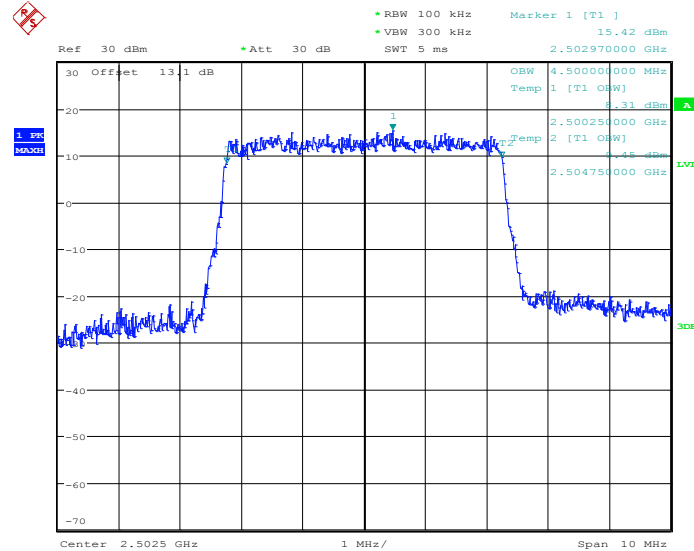


Date: 7.MAY.2014 16:52:05



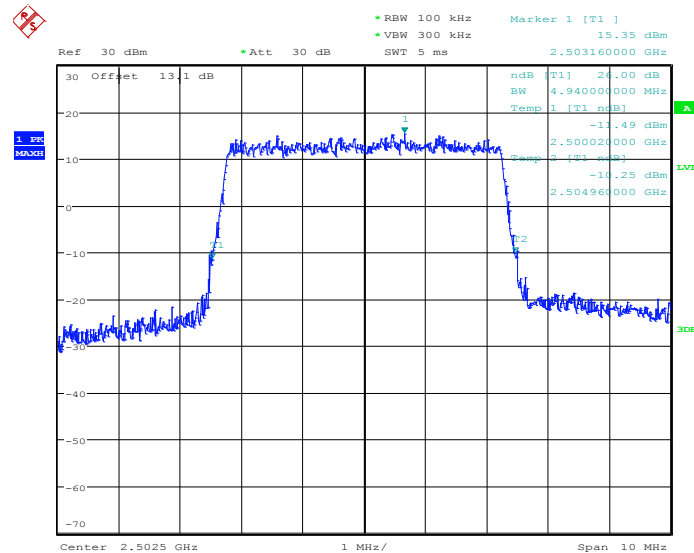
Band :	LTE Band 7	BW / Mod. :	5MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 20775



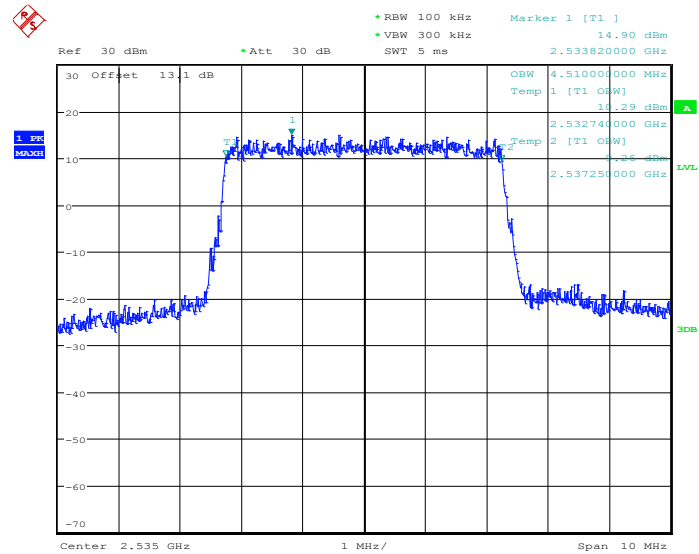
Date: 7.MAY.2014 16:42:12

26dB Bandwidth Plot on Channel 20775



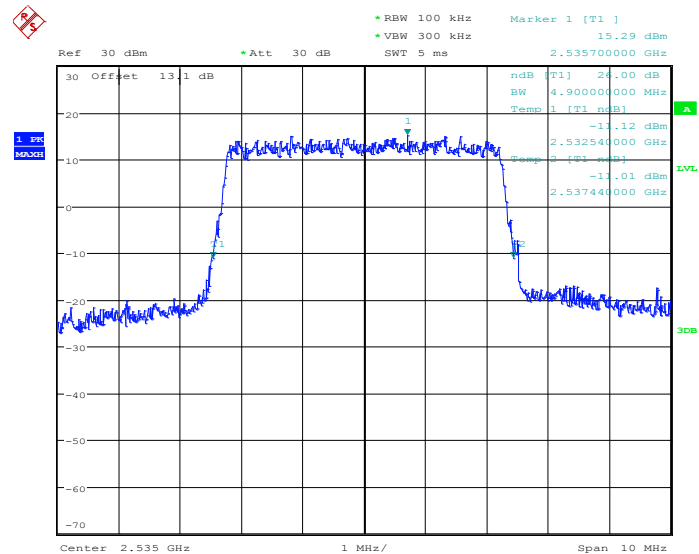
Date: 7.MAY.2014 16:42:47

99% Occupied Bandwidth Plot on Channel 21100



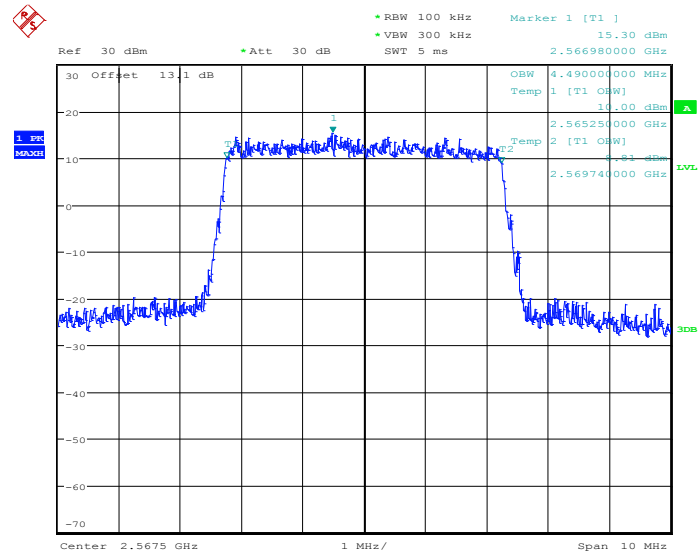
Date: 7.MAY.2014 16:48:34

26dB Bandwidth Plot on Channel 21100



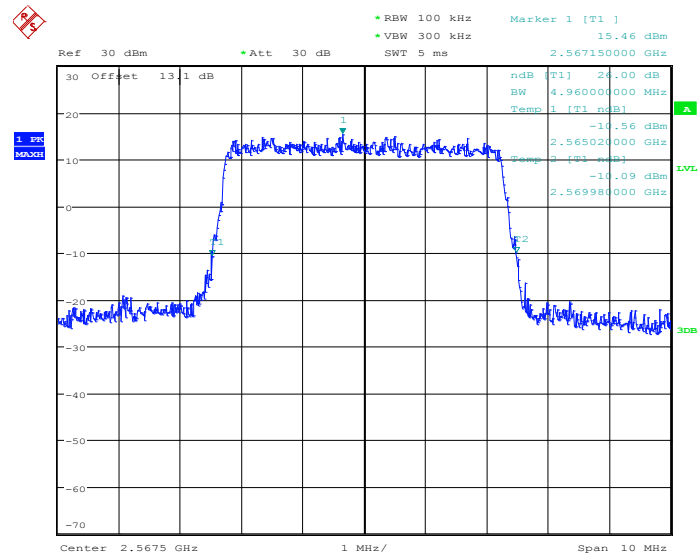
Date: 7.MAY.2014 16:49:09

99% Occupied Bandwidth Plot on Channel 21425



Date: 7.MAY.2014 16:51:47

26dB Bandwidth Plot on Channel 21425

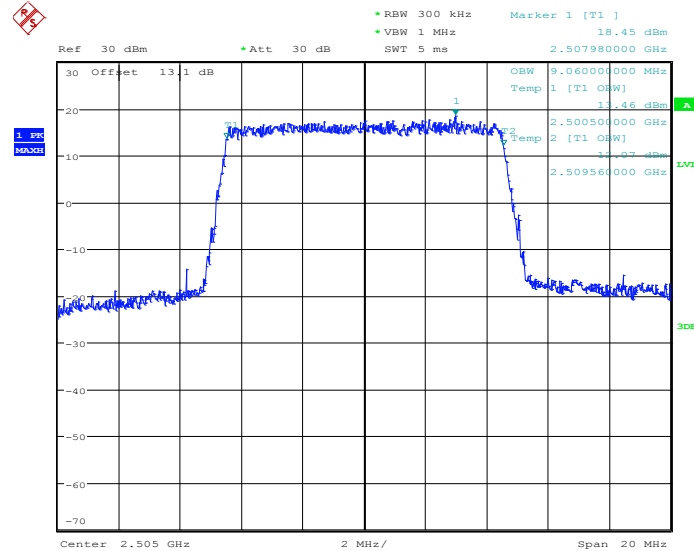


Date: 7.MAY.2014 16:52:22



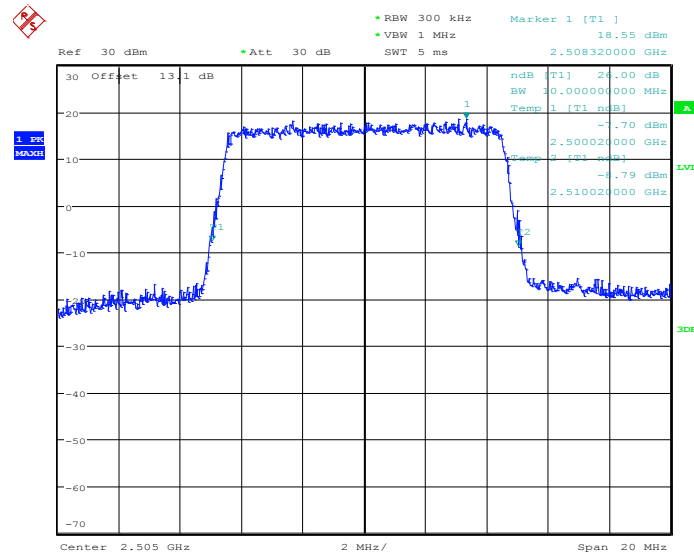
Band :	LTE Band 7	BW / Mod. :	10MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 20800



Date: 7.MAY.2014 16:57:55

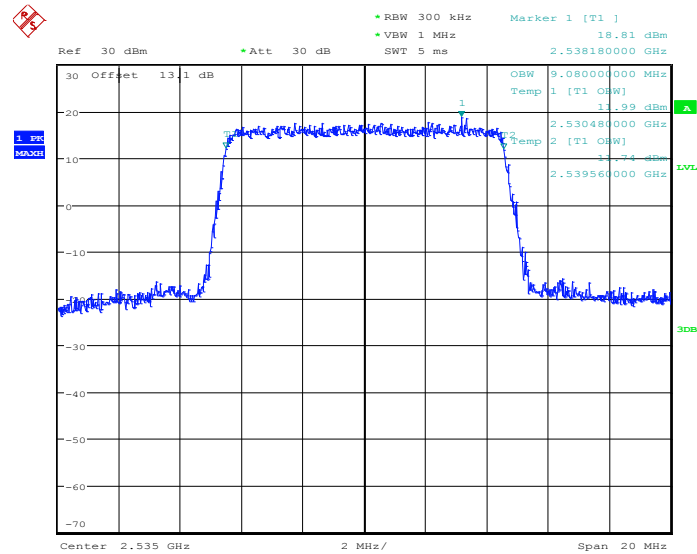
26dB Bandwidth Plot on Channel 20800



Date: 7.MAY.2014 16:58:28

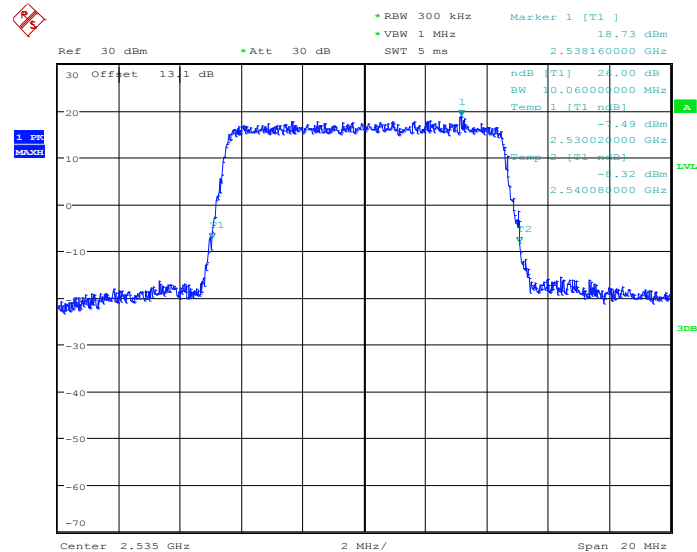


99% Occupied Bandwidth Plot on Channel 21100

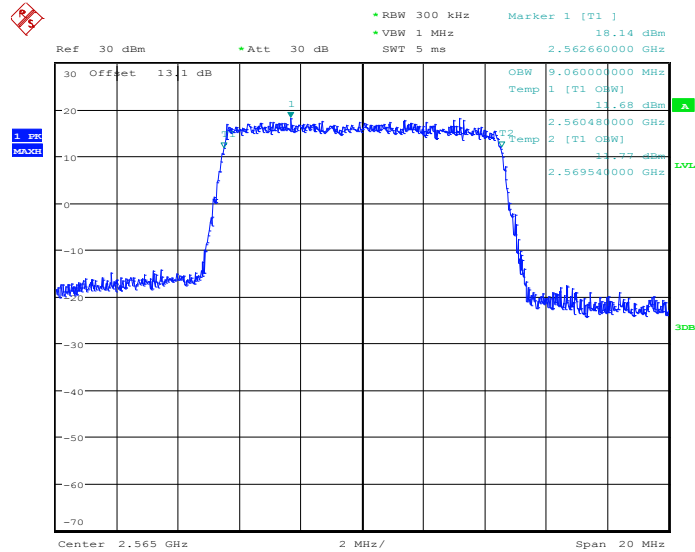


Date: 7.MAY.2014 17:04:15

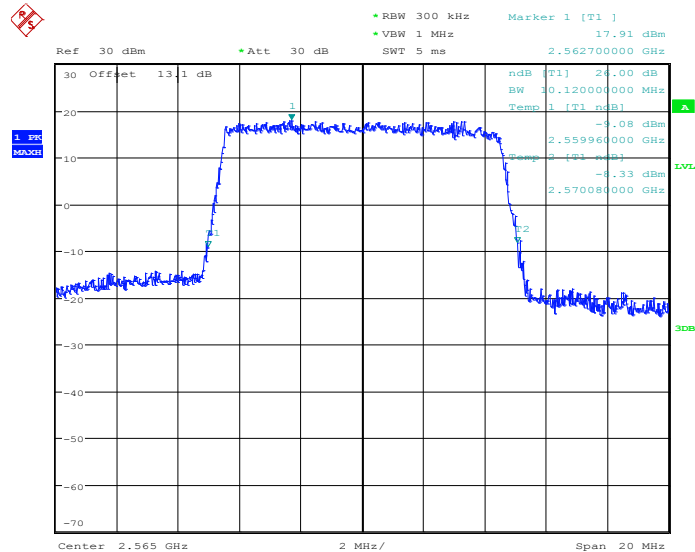
26dB Bandwidth Plot on Channel 21100



Date: 7.MAY.2014 17:04:48

99% Occupied Bandwidth Plot on Channel 21400


Date: 7.MAY.2014 17:07:29

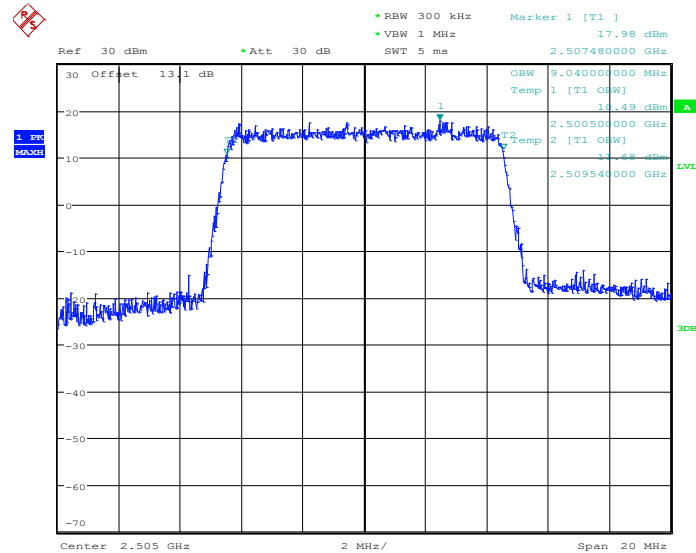
26dB Bandwidth Plot on Channel 21400


Date: 7.MAY.2014 17:08:02



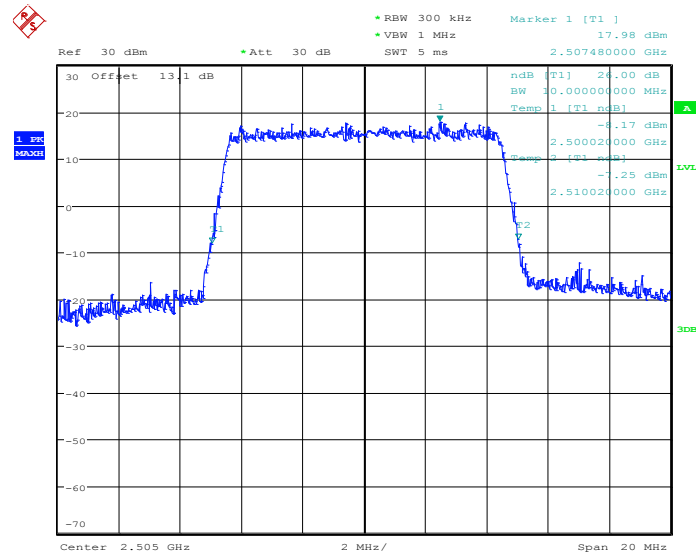
Band :	LTE Band 7	BW / Mod. :	10MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 20800



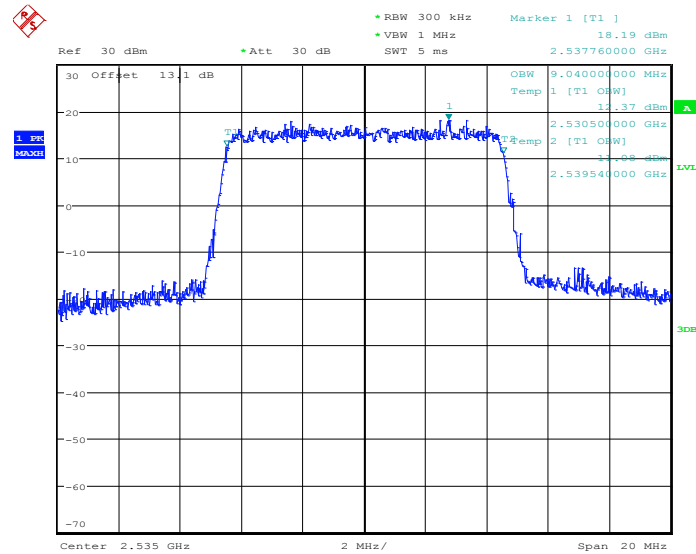
Date: 7.MAY.2014 16:58:11

26dB Bandwidth Plot on Channel 20800



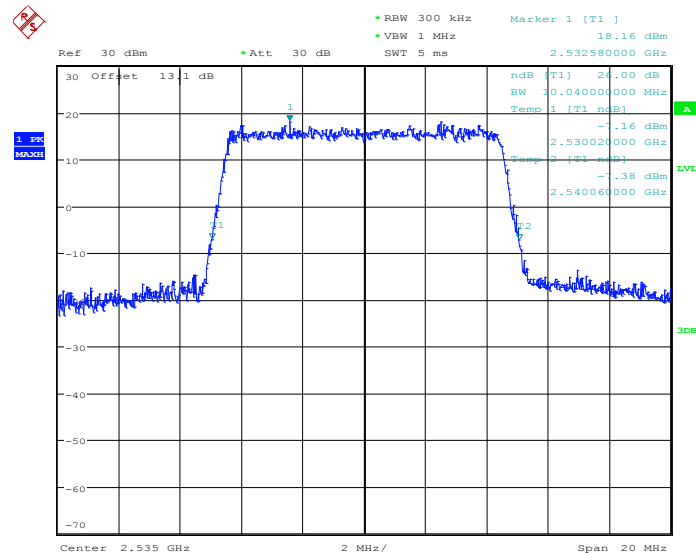
Date: 7.MAY.2014 16:58:46

99% Occupied Bandwidth Plot on Channel 21100

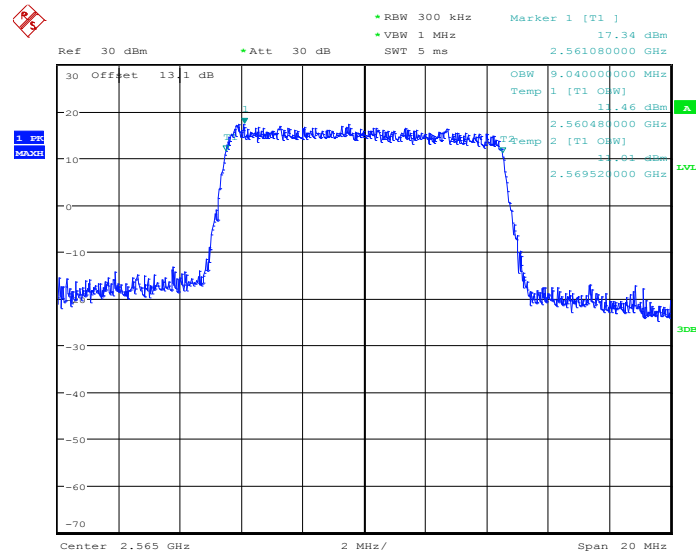


Date: 7.MAY.2014 17:04:31

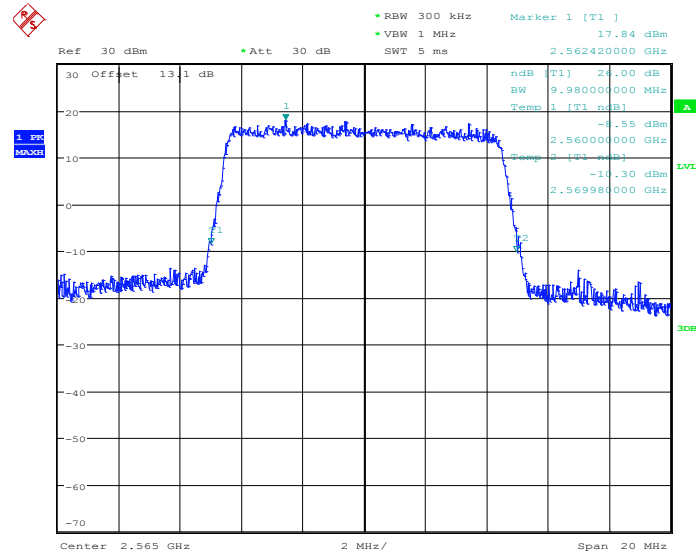
26dB Bandwidth Plot on Channel 21100



Date: 7.MAY.2014 17:05:06

99% Occupied Bandwidth Plot on Channel 21400


Date: 7.MAY.2014 17:07:45

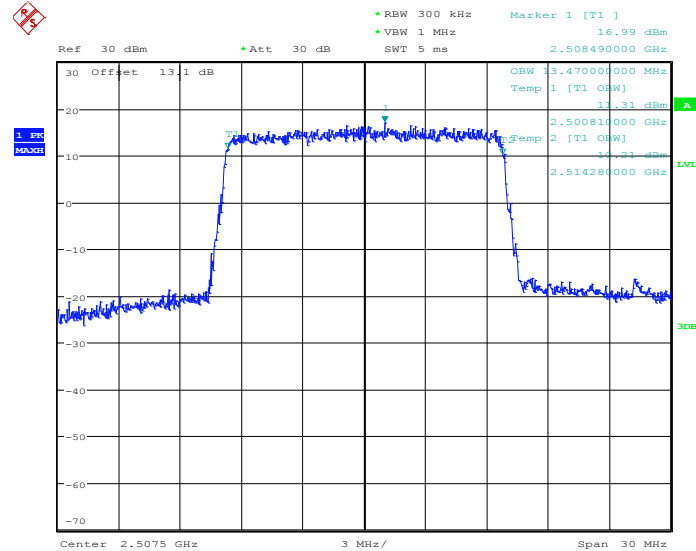
26dB Bandwidth Plot on Channel 21400


Date: 7.MAY.2014 17:08:20



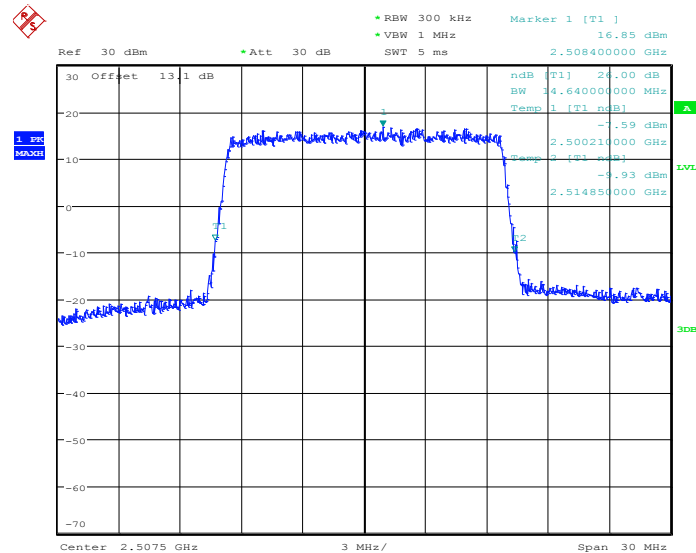
Band :	LTE Band 7	BW / Mod. :	15MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 20825



Date: 7.MAY.2014 17:13:53

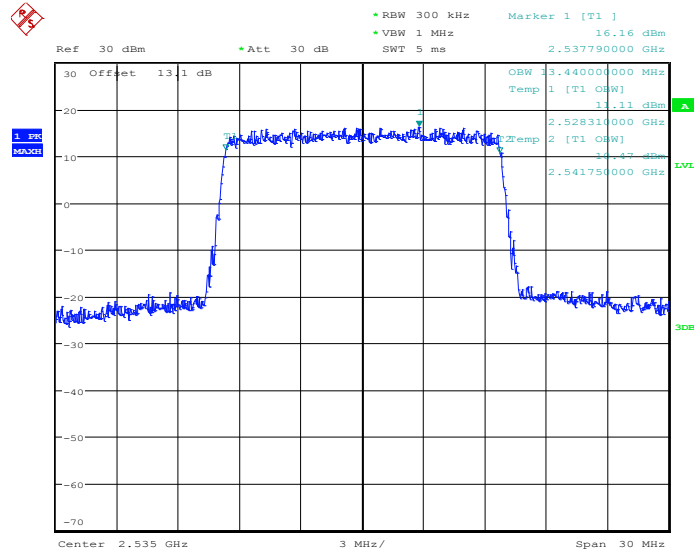
26dB Bandwidth Plot on Channel 20825



Date: 7.MAY.2014 17:14:26

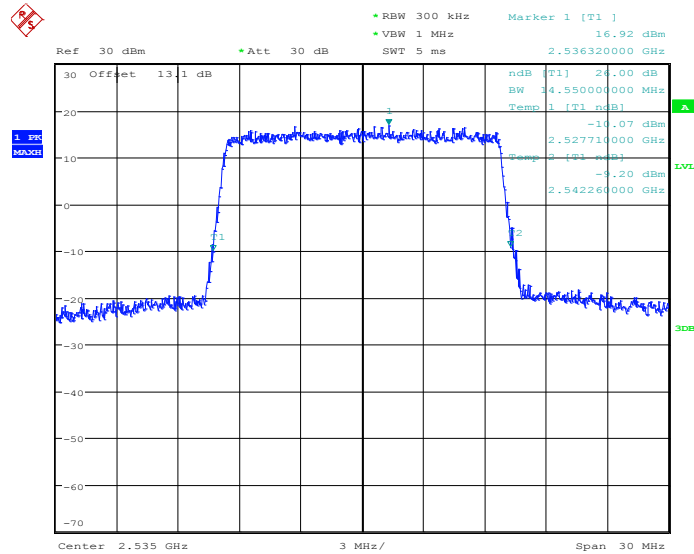


99% Occupied Bandwidth Plot on Channel 21100



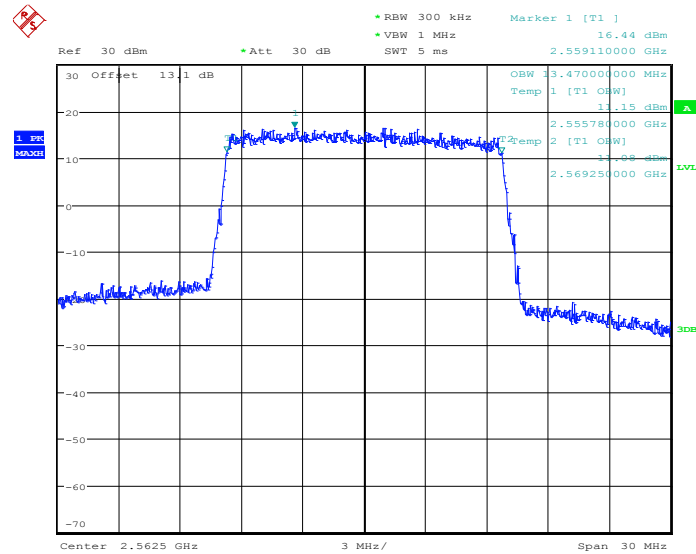
Date: 7.MAY.2014 17:20:13

26dB Bandwidth Plot on Channel 21100



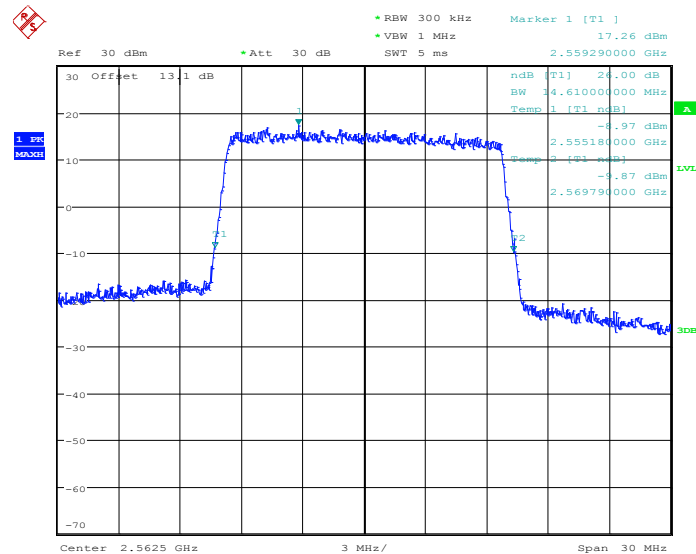
Date: 7.MAY.2014 17:20:46

99% Occupied Bandwidth Plot on Channel 21375



Date: 7.MAY.2014 17:23:26

26dB Bandwidth Plot on Channel 21375

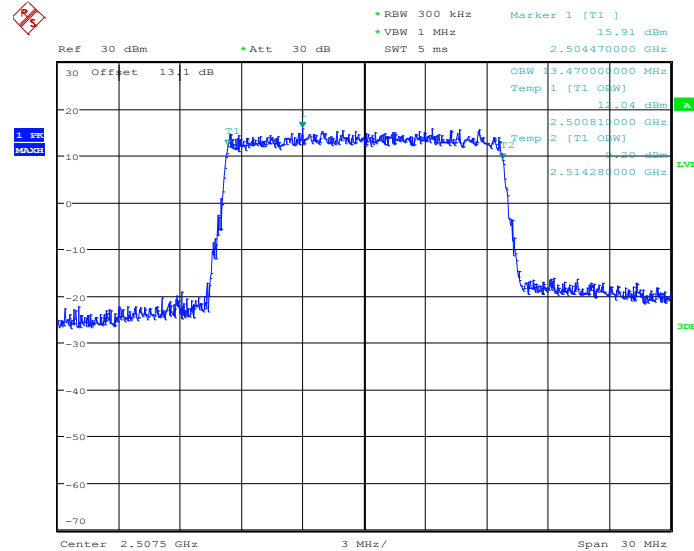


Date: 7.MAY.2014 17:23:59



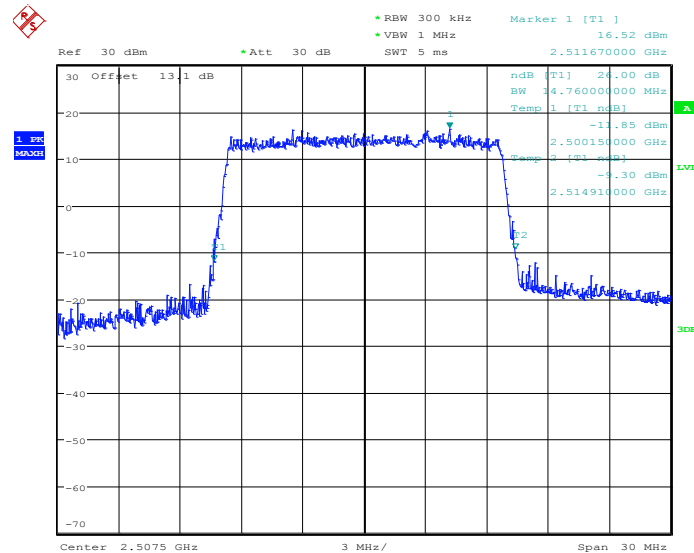
Band :	LTE Band 7	BW / Mod. :	15MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 20825



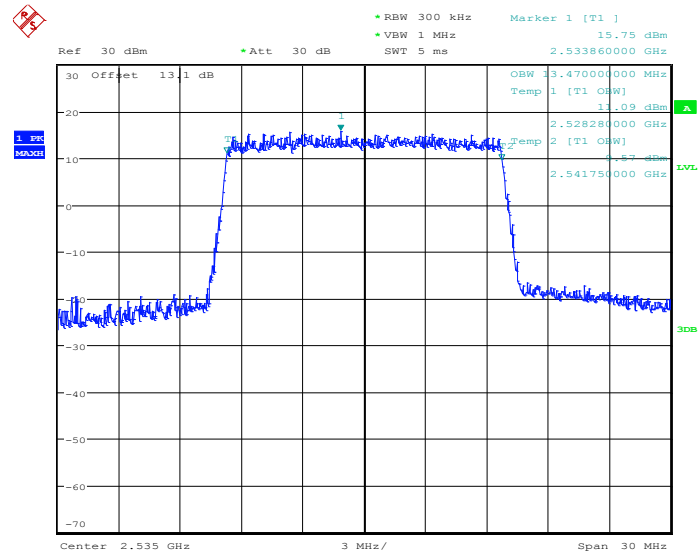
Date: 7.MAY.2014 17:14:09

26dB Bandwidth Plot on Channel 20825



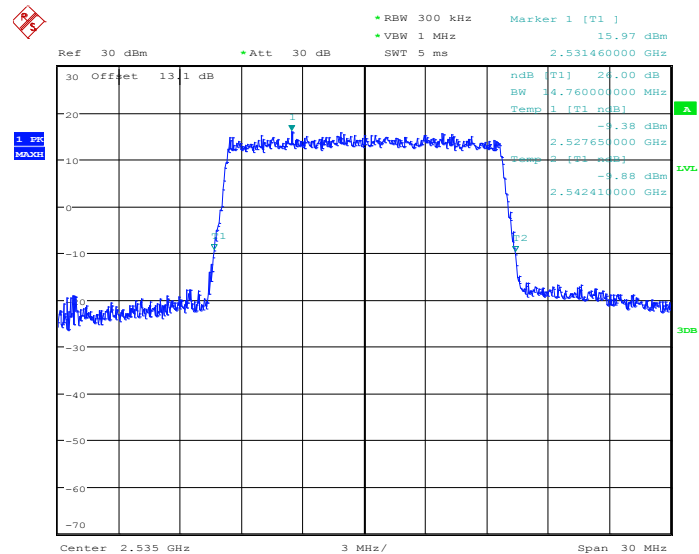
Date: 7.MAY.2014 17:14:44

99% Occupied Bandwidth Plot on Channel 21100



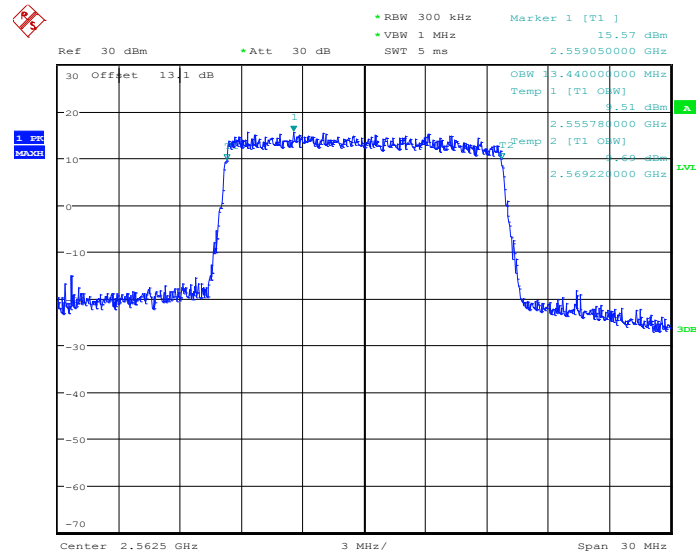
Date: 7.MAY.2014 17:20:29

26dB Bandwidth Plot on Channel 21100



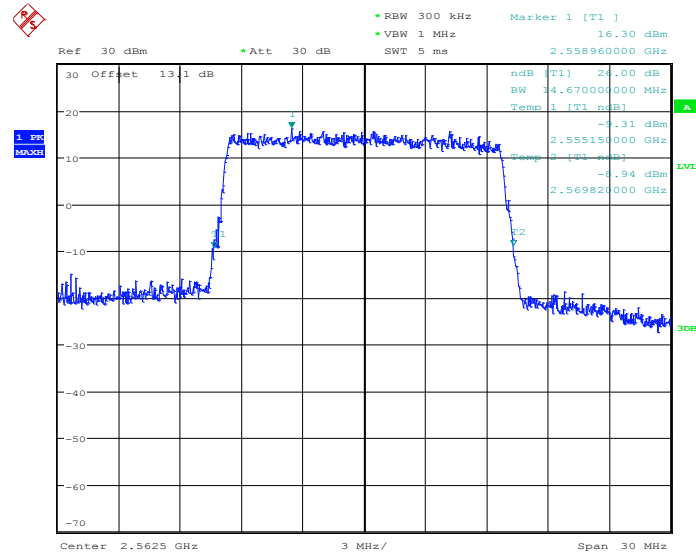
Date: 7.MAY.2014 17:21:04

99% Occupied Bandwidth Plot on Channel 21375



Date: 7.MAY.2014 17:23:42

26dB Bandwidth Plot on Channel 21375

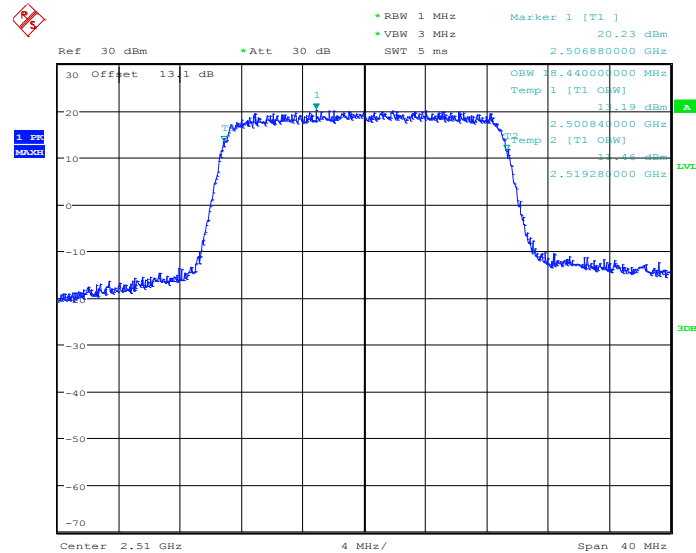


Date: 7.MAY.2014 17:24:17



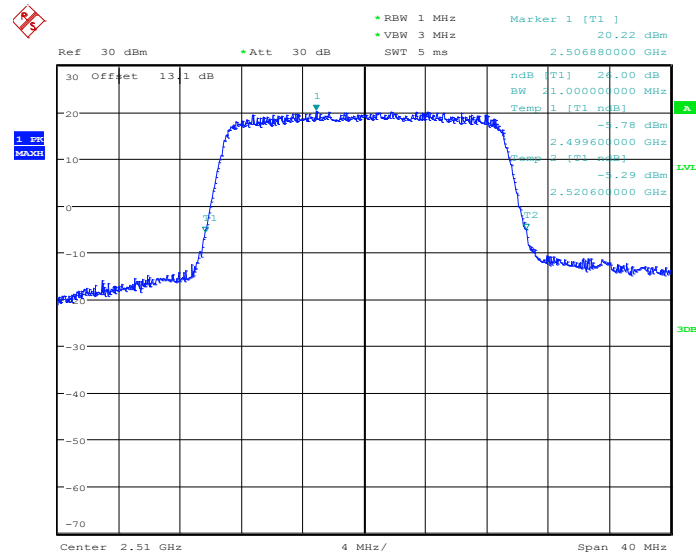
Band :	LTE Band 7	BW / Mod. :	20MHz / QPSK
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99% Occupied Bandwidth Plot on Channel 20850



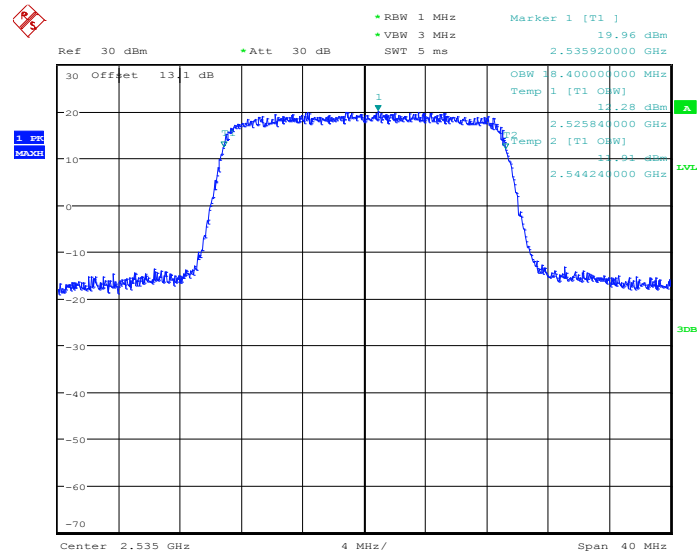
Date: 7.MAY.2014 17:29:50

26dB Bandwidth Plot on Channel 20850



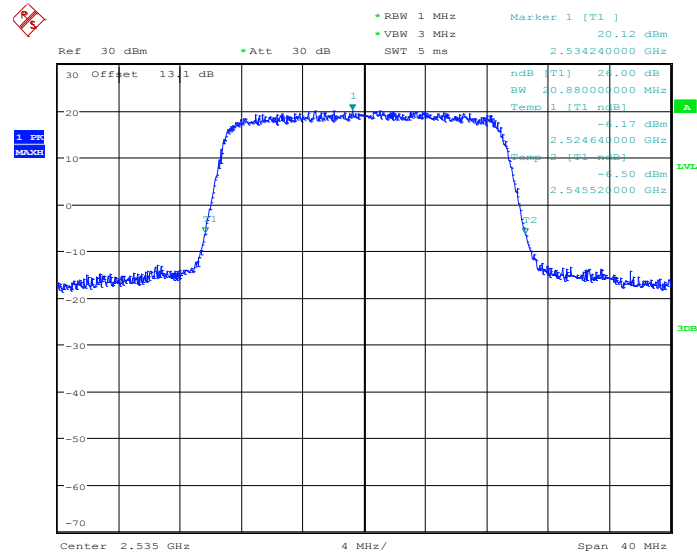
Date: 7.MAY.2014 17:30:24

99% Occupied Bandwidth Plot on Channel 21100

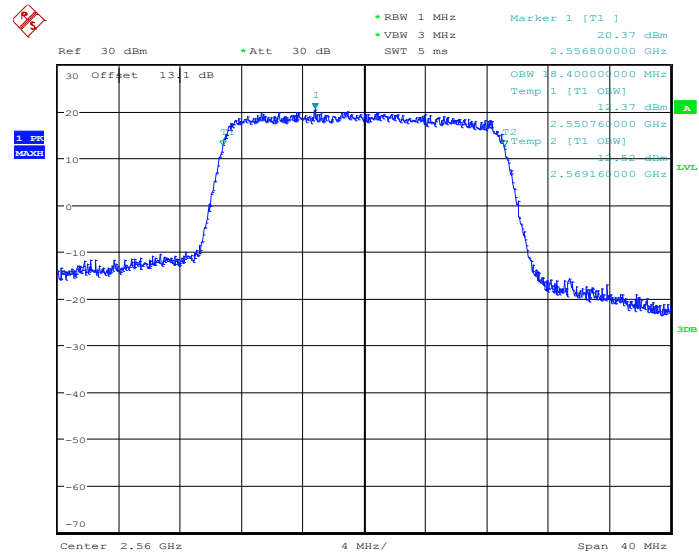


Date: 7.MAY.2014 17:36:10

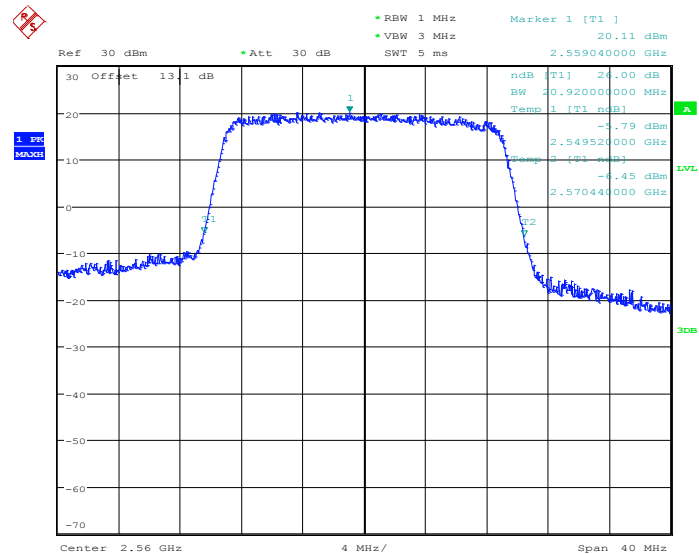
26dB Bandwidth Plot on Channel 21100



Date: 7.MAY.2014 17:36:43

99% Occupied Bandwidth Plot on Channel 21350


Date: 7.MAY.2014 17:39:23

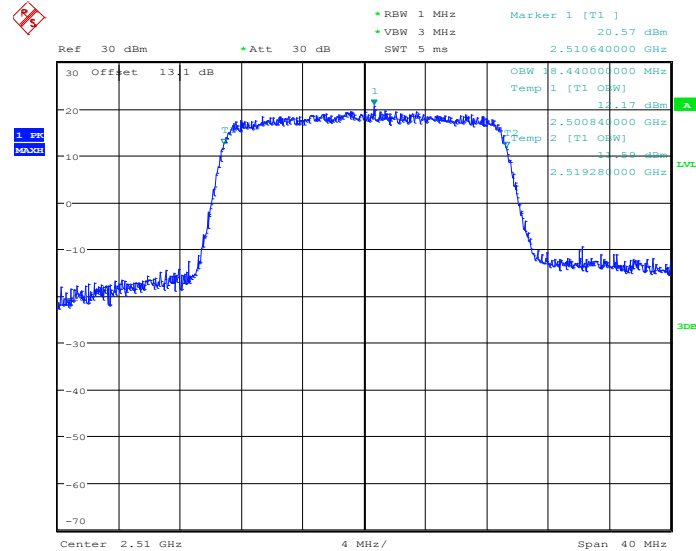
26dB Bandwidth Plot on Channel 21350


Date: 7.MAY.2014 17:39:56



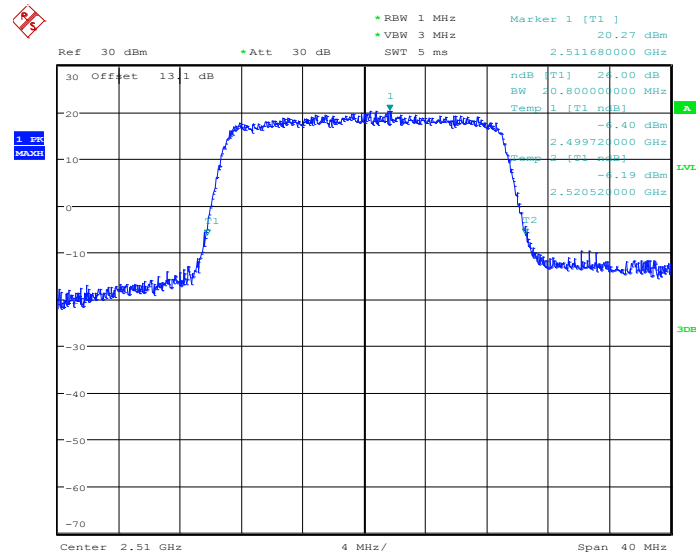
Band :	LTE Band 7	BW / Mod. :	20MHz / 16QAM
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99% Occupied Bandwidth Plot on Channel 20850

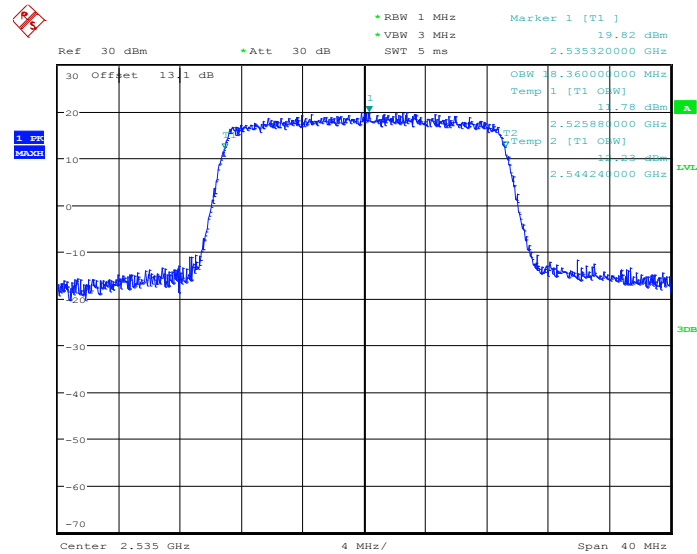


Date: 7.MAY.2014 17:30:06

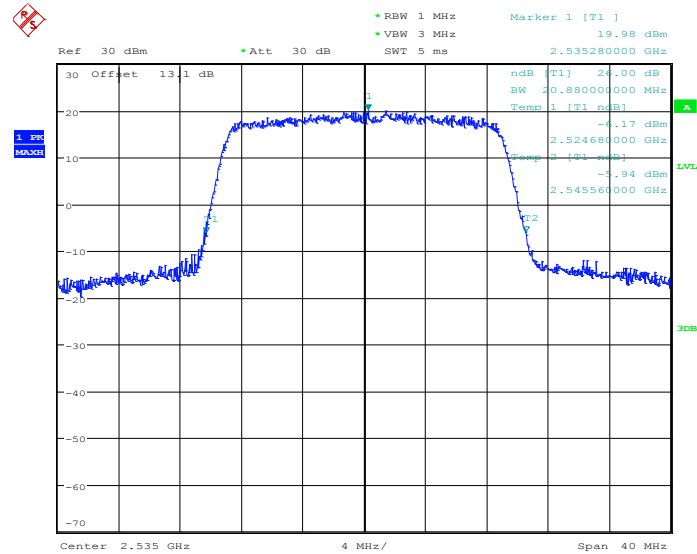
26dB Bandwidth Plot on Channel 20850



Date: 7.MAY.2014 17:30:41

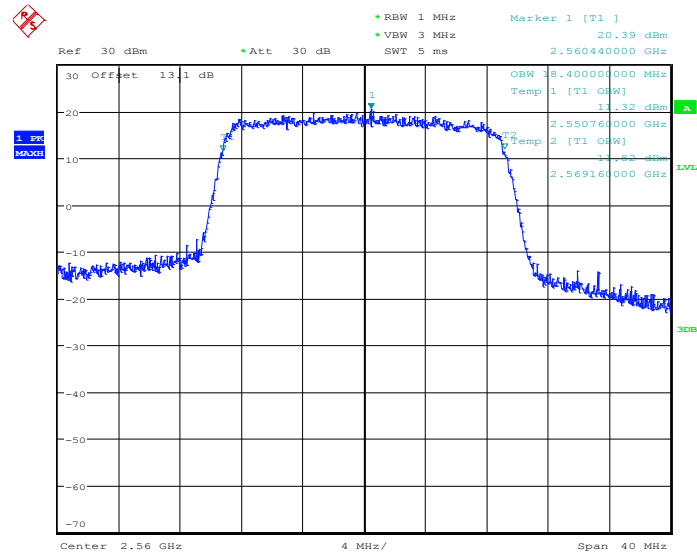
99% Occupied Bandwidth Plot on Channel 21100


Date: 7.MAY.2014 17:36:26

26dB Bandwidth Plot on Channel 21100


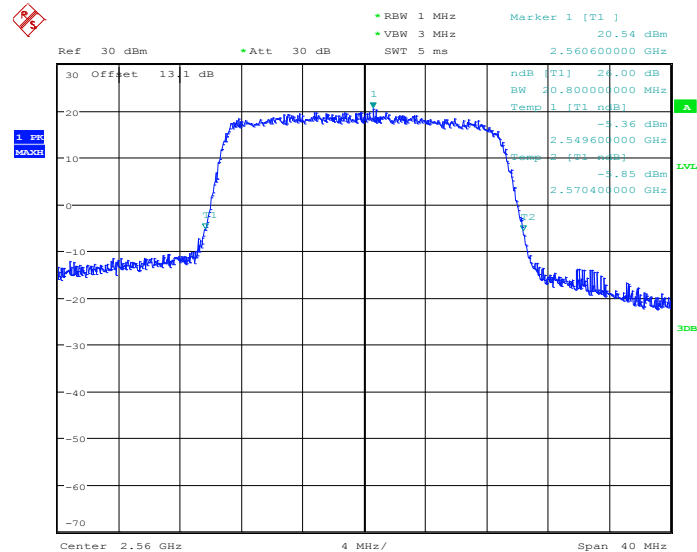
Date: 7.MAY.2014 17:37:01

99% Occupied Bandwidth Plot on Channel 21350



Date: 7.MAY.2014 17:39:39

26dB Bandwidth Plot on Channel 21350



Date: 7.MAY.2014 17:40:14